http://www.ebooksread.com/

The Mysterious Island by Jules Verne 1874

PART 1--DROPPED FROM THE CLOUDS

Chapter 1

"Are we rising again?" "No. On the contrary." "Are we descending?" "Worse

than that, captain! we are falling!" "For Heaven's sake heave out the

ballast!" "There! the last sack is empty!" "Does the balloon rise?"
"No!"

"I hear a noise like the dashing of waves. The sea is below the car! It

cannot be more than 500 feet from us!" "Overboard with every weight!

. . . everything!"

Such were the loud and startling words which resounded through the a ir,

above the vast watery desert of the Pacific, about four o'clock in the

evening of the 23rd of March, 1865.

Few can possibly have forgotten the terrible storm from the northeas t , in

the middle of the equinox of that year. The tempest raged without intermission from the 18th to the 26th of March. Its ravages were terrible

in America, Europe, and Asia, covering a distance of eighteen hundre

miles, and extending obliquely to the equator from the thirty-fifth north

parallel to the fortieth south parallel. Towns were overthrown, fore sts

uprooted, coasts devastated by the mountains of water which were precipitated on them, vessels cast on the shore, which the published

accounts numbered by hundreds, whole districts leveled by waterspout s which

destroyed everything they passed over, several thousand people crush ed on

land or drowned at sea; such were the traces of its fury, left by th is

devastating tempest. It surpassed in disasters those which so fright fully

ravaged Havana and Guadalupe, one on the 25th of October, 1810, the other

on the 26th of July, 1825.

But while so many catastrophes were taking place on land and at sea, a

drama not less exciting was being enacted in the agitated air.

In fact, a balloon, as a ball might be carried on the summit of a waterspout, had been taken into the circling movement of a column of air

and had traversed space at the rate of ninety miles an hour, turning round

and round as if seized by some aerial maelstrom.

Beneath the lower point of the balloon swung a car, containing five passengers, scarcely visible in the midst of the thick vapor mingled with

spray which hung over the surface of the ocean.

Whence, it may be asked, had come that plaything of the tempest? Fro \mathbf{m}

what part of the world did it rise? It surely could not have started during

the storm. But the storm had raged five days already, and the first symptoms were manifested on the 18th. It cannot be doubted that the balloon

came from a great distance, for it could not have traveled less than two

thousand miles in twenty-four hours.

At any rate the passengers, destitute of all marks for their guidance,

could not have possessed the means of reckoning the route traversed since

their departure. It was a remarkable fact that, although in the very midst

of the furious tempest, they did not suffer from it. They were throw n about

and whirled round and round without feeling the rotation in the slightest

degree, or being sensible that they were removed from a horizontal position.

Their eyes could not pierce through the thick mist which had gathere

beneath the car. Dark vapor was all around them. Such was the densit y of

the atmosphere that they could not be certain whether it was day or night.

No reflection of light, no sound from inhabited land, no roaring of the

ocean could have reached them, through the obscurity, while suspende d in

those elevated zones. Their rapid descent alone had informed them of the

dangers which they ran from the waves. However, the balloon, lighten ed of

heavy articles, such as ammunition, arms, and provisions, had risen

into

the higher layers of the atmosphere, to a height of 4,500 feet. The voyagers, after having discovered that the sea extended beneath them , and

thinking the dangers above less dreadful than those below, did not h esitate

to throw overboard even their most useful articles, while they endea vored

to lose no more of that fluid, the life of their enterprise, which sustained them above the abyss.

The night passed in the midst of alarms which would have been death to

less energetic souls. Again the day appeared and with it the tempest began

to moderate. From the beginning of that day, the 24th of March, it s howed

symptoms of abating. At dawn, some of the lighter clouds had risen i nto the

more lofty regions of the air. In a few hours the wind had changed f rom a

hurricane to a fresh breeze, that is to say, the rate of the transit of the

atmospheric layers was diminished by half. It was still what sailors call

"a close-reefed topsail breeze," but the commotion in the elements h ad none

the less considerably diminished.

Towards eleven o'clock, the lower region of the air was sensibly cle arer.

The atmosphere threw off that chilly dampness which is felt after the

passage of a great meteor. The storm did not seem to have gone farth er to

the west. It appeared to have exhausted itself. Could it have passed away

in electric sheets, as is sometimes the case with regard to the typh oons of

the Indian Ocean?

But at the same time, it was also evident that the balloon was again

slowly descending with a regular movement. It appeared as if it were

little by little, collapsing, and that its case was lengthening and extending, passing from a spherical to an oval form. Towards midday the

balloon was hovering above the sea at a height of only 2,000 feet. I $\ensuremath{^{\text{T}}}$

contained 50,000 cubic feet of gas, and, thanks to its capacity, it could

maintain itself a long time in the air, although it should reach a g reat

altitude or might be thrown into a horizontal position.

Perceiving their danger, the passengers cast away the last articles which

still weighed down the car, the few provisions they had kept, everything,

even to their pocket-knives, and one of them, having hoisted himself on to

the circles which united the cords of the net, tried to secure more firmly

the lower point of the balloon.

It was, however, evident to the voyagers that the gas was failing, a nd

that the balloon could no longer be sustained in the higher regions. They

must infallibly perish!

There was not a continent, nor even an island, visible beneath them.

The

watery expanse did not present a single speck of land, not a solid s urface

upon which their anchor could hold.

It was the open sea, whose waves were still dashing with tremendous violence! It was the ocean, without any visible limits, even for tho se

whose gaze, from their commanding position, extended over a radius of forty

miles. The vast liquid plain, lashed without mercy by the storm, app eared

as if covered with herds of furious chargers, whose white and disheveled

crests were streaming in the wind. No land was in sight, not a solit ary

ship could be seen. It was necessary at any cost to arrest their dow nward

course, and to prevent the balloon from being engulfed in the waves. The

voyagers directed all their energies to this urgent work. But, notwithstanding their efforts, the balloon still fell, and at the sa me time

shifted with the greatest rapidity, following the direction of the wind.

that is to say, from the northeast to the southwest.

Frightful indeed was the situation of these unfortunate men. They we

evidently no longer masters of the machine. All their attempts were useless. The case of the balloon collapsed more and more. The gas escaped

without any possibility of retaining it. Their descent was visibly accelerated, and soon after midday the car hung within 600 feet of the

ocean.

It was impossible to prevent the escape of gas, which rushed through a

large rent in the silk. By lightening the car of all the articles which it

contained, the passengers had been able to prolong their suspension in the

air for a few hours. But the inevitable catastrophe could only be retarded,

and if land did not appear before night, voyagers, car, and balloon must to

a certainty vanish beneath the waves.

They now resorted to the only remaining expedient. They were truly dauntless men, who knew how to look death in the face. Not a single murmur

escaped from their lips. They were determined to struggle to the las

minute, to do anything to retard their fall. The car was only a sort of

willow basket, unable to float, and there was not the slightest possibility

of maintaining it on the surface of the sea.

Two more hours passed and the balloon was scarcely 400 feet above the water.

At that moment a loud voice, the voice of a man whose heart was inaccessible to fear, was heard. To this voice responded others not less

determined. "Is everything thrown out?" "No, here are still 2,000 do llars

in gold." A heavy bag immediately plunged into the sea. "Does the balloon

rise?" "A little, but it will not be long before it falls again." "W hat

still remains to be thrown out?" "Nothing." "Yes! the car!" "Let us catch

hold of the net, and into the sea with the car."

This was, in fact, the last and only mode of lightening the balloon.

ropes which held the car were cut, and the balloon, after its fall, mounted

2,000 feet. The five voyagers had hoisted themselves into the net, a nd

clung to the meshes, gazing at the abyss.

The delicate sensibility of balloons is well known. It is sufficient to

throw out the lightest article to produce a difference in its vertic al

position. The apparatus in the air is like a balance of mathematical

precision. It can be thus easily understood that when it is lightene d of

any considerable weight its movement will be impetuous and sudden. So it

happened on this occasion. But after being suspended for an instant aloft,

the balloon began to redescend, the gas escaping by the rent which i t was

impossible to repair.

The men had done all that men could do. No human efforts could save them now.

They must trust to the mercy of Him who rules the elements.

At four o'clock the balloon was only 500 feet above the surface of the water.

A loud barking was heard. A dog accompanied the voyagers, and was he ld pressed close to his master in the meshes of the net.

"Top has seen something," cried one of the men. Then immediately a loud voice shouted,--

"Land! land!" The balloon, which the wind still drove towards the southwest, had since daybreak gone a considerable distance, which might be

reckoned by hundreds of miles, and a tolerably high land had, in fac t,

appeared in that direction. But this land was still thirty miles off . It

would not take less than an hour to get to it, and then there was the chance of falling to leeward.

An hour! Might not the balloon before that be emptied of all the flu id it yet retained?

Such was the terrible question! The voyagers could distinctly see th at

solid spot which they must reach at any cost. They were ignorant of what it

was, whether an island or a continent, for they did not know to what part

of the world the hurricane had driven them. But they must reach this land,

whether inhabited or desolate, whether hospitable or not.

It was evident that the balloon could no longer support itself! Seve ral

times already had the crests of the enormous billows licked the bott om of

the net, making it still heavier, and the balloon only half rose, like a

bird with a wounded wing. Half an hour later the land was not more t

han a

mile off, but the balloon, exhausted, flabby, hanging in great folds , had

gas in its upper part alone. The voyagers, clinging to the net, were still

too heavy for it, and soon, half plunged into the sea, they were beaten by

the furious waves. The balloon-case bulged out again, and the wind, taking

it, drove it along like a vessel. Might it not possibly thus reach the

land?

But, when only two fathoms off, terrible cries resounded from four pairs

of lungs at once. The balloon, which had appeared as if it would nev er

again rise, suddenly made an unexpected bound, after having been struck by

a tremendous sea. As if it had been at that instant relieved of a ne w part

of its weight, it mounted to a height of 1,500 feet, and here it met a

current of wind, which instead of taking it directly to the coast, c arried

it in a nearly parallel direction.

At last, two minutes later, it reproached obliquely, and finally fel on a sandy beach, out of the reach of the waves.

The voyagers, aiding each other, managed to disengage themselves fro $\ensuremath{\text{m}}$ the

meshes of the net. The balloon, relieved of their weight, was taken by the

wind, and like a wounded bird which revives for an instant, disappea red

into space.

But the car had contained five passengers, with a dog, and the ballo on

only left four on the shore.

The missing person had evidently been swept off by the sea, which had

just struck the net, and it was owing to this circumstance that the lightened balloon rose the last time, and then soon after reached the land.

Scarcely had the four castaways set foot on firm ground, than they a 11.

thinking of the absent one, simultaneously exclaimed, "Perhaps he will try

to swim to land! Let us save him! let us save him!"

Those whom the hurricane had just thrown on this coast were neither aeronauts by profession nor amateurs. They were prisoners of war who se

boldness had induced them to escape in this extraordinary manner.

A hundred times they had almost perished! A hundred times had they a lmost

fallen from their torn balloon into the depths of the ocean. But Hea ven had

reserved them for a strange destiny, and after having, on the $20 \, \mathrm{th}$ of

March, escaped from Richmond, besieged by the troops of General Ulys ses

Grant, they found themselves seven thousand miles from the capital of

Virginia, which was the principal stronghold of the South, during the

terrible War of Secession. Their aerial voyage had lasted five days.

The curious circumstances which led to the escape of the prisoners \boldsymbol{w} ere

as follows:

That same year, in the month of February, 1865, in one of the coups de

main by which General Grant attempted, though in vain, to possess hi mself

of Richmond, several of his officers fell into the power of the enem y and

were detained in the town. One of the most distinguished was Captain Cyrus

Harding. He was a native of Massachusetts, a first-class engineer, to whom

the government had confided, during the war, the direction of the railways,

which were so important at that time. A true Northerner, thin, bony, lean,

about forty-five years of age; his close-cut hair and his beard, of which

he only kept a thick mustache, were already getting gray. He had one -of

those finely-developed heads which appear made to be struck on a med al,

piercing eyes, a serious mouth, the physiognomy of a clever man of the

military school. He was one of those engineers who began by handling the

hammer and pickaxe, like generals who first act as common soldiers. Besides

mental power, he also possessed great manual dexterity. His muscles exhibited remarkable proofs of tenacity. A man of action as well as a man

of thought, all he did was without effort to one of his vigorous and

sanguine temperament. Learned, clear-headed, and practical, he fulfilled in

all emergencies those three conditions which united ought to insure human

success--activity of mind and body, impetuous wishes, and powerful will. He

might have taken for his motto that of William of Orange in the 17th

century: "I can undertake and persevere even without hope of success."

Cyrus Harding was courage personified. He had been in all the battle s of

that war. After having begun as a volunteer at Illinois, under Ulyss es

Grant, he fought at Paducah, Belmont, Pittsburg Landing, at the sieg e of

Corinth, Port Gibson, Black River, Chattanooga, the Wilderness, on the

Potomac, everywhere and valiantly, a soldier worthy of the general w ho

said, "I never count my dead!" And hundreds of times Captain Harding had

almost been among those who were not counted by the terrible Grant; but in

these combats where he never spared himself, fortune favored him til 1 the

moment when he was wounded and taken prisoner on the field of battle near

Richmond. At the same time and on the same day another important per sonage

fell into the hands of the Southerners. This was no other than Gideo n

Spilen, a reporter for the New York Herald, who had been ordered to follow

the changes of the war in the midst of the Northern armies.

Gideon Spilett was one of that race of indomitable English or Americ an

chroniclers, like Stanley and others, who stop at nothing to obtain exact

information, and transmit it to their journal in the shortest possible

time. The newspapers of the Union, such as the New York Herald, are genuine

powers, and their reporters are men to be reckoned with. Gideon Spil ett

ranked among the first of those reporters: a man of great merit, energetic,

prompt and ready for anything, full of ideas, having traveled over the

whole world, soldier and artist, enthusiastic in council, resolute in

action, caring neither for trouble, fatigue, nor danger, when in pur suit of

information, for himself first, and then for his journal, a perfect treasury of knowledge on all sorts of curious subjects, of the unpub

lished,

of the unknown, and of the impossible. He was one of those intrepid observers who write under fire, "reporting" among bullets, and to whom

every danger is welcome.

He also had been in all the battles, in the first rank, revolver in one

hand, note-book in the other; grape-shot never made his pencil tremb le. He

did not fatigue the wires with incessant telegrams, like those who s peak

when they have nothing to say, but each of his notes, short, decisive, and

clear, threw light on some important point. Besides, he was not want ing in

humor. It was he who, after the affair of the Black River, determine d at

any cost to keep his place at the wicket of the telegraph office, an d after

having announced to his journal the result of the battle, telegraphe d for

two hours the first chapters of the Bible. It cost the New York Hera ld two

thousand dollars, but the New York Herald published the first intell igence.

Gideon Spilett was tall. He was rather more than forty years of age.

Light whiskers bordering on red surrounded his face. His eye was ste ady,

lively, rapid in its changes. It was the eye of a man accustomed to take in

at a glance all the details of a scene. Well built, he was inured to all

climates, like a bar of steel hardened in cold water.

For ten years Gideon Spilett had been the reporter of the New York Herald, which he enriched by his letters and drawings, for he was as

skilful in the use of the pencil as of the pen. When he was captured he

was in the act of making a description and sketch of the battle. The last

words in his note-book were these: "A Southern rifleman has just tak en aim

at me, but--" The Southerner notwithstanding missed Gideon Spilett, who,

with his usual fortune, came out of this affair without a scratch.

Cyrus Harding and Gideon Spilett, who did not know each other except by

reputation, had both been carried to Richmond. The engineer's wounds

rapidly healed, and it was during his convalescence that he made acquaintance with the reporter. The two men then learned to apprecia

te each

other. Soon their common aim had but one object, that of escaping, rejoining Grant's army, and fighting together in the ranks of the Fe derals.

The two Americans had from the first determined to seize every chance;

but although they were allowed to wander at liberty in the town, Ric hmond

was so strictly guarded, that escape appeared impossible. In the meanwhile

Captain Harding was rejoined by a servant who was devoted to him in life

and in death. This intrepid fellow was a Negro born on the engineer's

estate, of a slave father and mother, but to whom Cyrus, who was an Abolitionist from conviction and heart, had long since given his freedom.

The once slave, though free, would not leave his master. He would have died

for him. He was a man of about thirty, vigorous, active, clever, intelligent, gentle, and calm, sometimes naive, always merry, obliging, and

honest. His name was Nebuchadnezzar, but he only answered to the familiar

abbreviation of Neb.

When Neb heard that his master had been made prisoner, he left Massachusetts without hesitating an instant, arrived before Richmond, and

by dint of stratagem and shrewdness, after having risked his life tw enty

times over, managed to penetrate into the besieged town. The pleasur e of

Harding on seeing his servant, and the joy of Neb at finding his mas ter,

can scarcely be described.

But though Neb had been able to make his way into Richmond, it was quite

another thing to get out again, for the Northern prisoners were very

strictly watched. Some extraordinary opportunity was needed to make the

attempt with any chance of success, and this opportunity not only did not

present itself, but was very difficult to find.

Meanwhile Grant continued his energetic operations. The victory of Petersburg had been very dearly bought. His forces, united to those of

Butler, had as yet been unsuccessful before Richmond, and nothing gave the

prisoners any hope of a speedy deliverance.

The reporter, to whom his tedious captivity did not offer a single

incident worthy of note, could stand it no longer. His usually active mind

was occupied with one sole thought--how he might get out of Richmond at any

cost. Several times had he even made the attempt, but was stopped by some

insurmountable obstacle. However, the siege continued; and if the prisoners

were anxious to escape and join Grant's army, certain of the besiege d were

no less anxious to join the Southern forces. Among them was one Jona than

Forster, a determined Southerner. The truth was, that if the prisone rs of

the Secessionists could not leave the town, neither could the Secessionists

themselves while the Northern army invested it. The Governor of Rich mond

for a long time had been unable to communicate with General Lee, and he

very much wished to make known to him the situation of the town, so as to

hasten the march of the army to their relief. Thus Jonathan Forster accordingly conceived the idea of rising in a balloon, so as to pass over

the besieging lines, and in that way reach the Secessionist camp.

The Governor authorized the attempt. A balloon was manufactured and placed at the disposal of Forster, who was to be accompanied by five other

persons. They were furnished with arms in case they might have to defend

themselves when they alighted, and provisions in the event of their aerial

voyage being prolonged.

The departure of the balloon was fixed for the 18th of March. It should

be effected during the night, with a northwest wind of moderate force, and

the aeronauts calculated that they would reach General Lee's camp in a few

hours.

But this northwest wind was not a simple breeze. From the 18th it was

evident that it was changing to a hurricane. The tempest soon became such

that Forster's departure was deferred, for it was impossible to risk the

balloon and those whom it carried in the midst of the furious elemen ts.

The balloon, inflated on the great square of Richmond, was ready to depart on the first abatement of the wind, and, as may be supposed, the

impatience among the besieged to see the storm moderate was very gre at.

The 18th, the 19th of March passed without any alteration in the weather.

There was even great difficulty in keeping the balloon fastened to the

ground, as the squalls dashed it furiously about.

The night of the 19th passed, but the next morning the storm blew with

redoubled force. The departure of the balloon was impossible.

On that day the engineer, Cyrus Harding, was accosted in one of the streets of Richmond by a person whom he did not in the least know. This was

a sailor named Pencroft, a man of about thirty-five or forty years of age,

strongly built, very sunburnt, and possessed of a pair of bright sparkling

eyes and a remarkably good physiognomy. Pencroft was an American from the

North, who had sailed all the ocean over, and who had gone through e very

possible and almost impossible adventure that a being with two feet and no

wings would encounter. It is needless to say that he was a bold, das hing

fellow, ready to dare anything and was astonished at nothing. Pencroft at

the beginning of the year had gone to Richmond on business, with a young

boy of fifteen from New Jersey, son of a former captain, an orphan, whom he

loved as if he had been his own child. Not having been able to leave the

town before the first operations of the siege, he found himself shut up, to

his great disgust; but, not accustomed to succumb to difficulties, h e

resolved to escape by some means or other. He knew the engineer-officer by

reputation; he knew with what impatience that determined man chafed under

his restraint. On this day he did not, therefore, hesitate to accost him,

saying, without circumlocution, "Have you had enough of Richmond, captain?"

The engineer looked fixedly at the man who spoke, and who added, in a low voice, --

[&]quot;Captain Harding, will you try to escape?"

[&]quot;When?" asked the engineer quickly, and it was evident that this que

stion

was uttered without consideration, for he had not yet examined the stranger

who addressed him. But after having with a penetrating eye observed the

open face of the sailor, he was convinced that he had before him an honest man.

"Who are you?" he asked briefly.

Pencroft made himself known.

"Well," replied Harding, "and in what way do you propose to escape?"

"By that lazy balloon which is left there doing nothing, and which looks

to me as if it was waiting on purpose for us--"

There was no necessity for the sailor to finish his sentence. The engineer understood him at once. He seized Pencroft by the arm, and dragged

him to his house. There the sailor developed his project, which was indeed

extremely simple. They risked nothing but their lives in its execution. The

hurricane was in all its violence, it is true, but so clever and dar ing an

engineer as Cyrus Harding knew perfectly well how to manage a balloo n. Had

he himself been as well acquainted with the art of sailing in the air as he

was with the navigation of a ship, Pencroft would not have hesitated to set

out, of course taking his young friend Herbert with him; for, accust omed to

brave the fiercest tempests of the ocean, he was not to be hindered on

account of the hurricane.

Captain Harding had listened to the sailor without saying a word, but his

eyes shone with satisfaction. Here was the long-sought-for opportunity--he

was not a man to let it pass. The plan was feasible, though, it must be

confessed, dangerous in the extreme. In the night, in spite of their

guards, they might approach the balloon, slip into the car, and then cut.

the cords which held it. There was no doubt that they might be kille d, but

on the other hand they might succeed, and without this storm!--Without

this storm the balloon would have started already and the looked-for

opportunity would not have then presented itself.

"I am not alone!" said Harding at last.

"How many people do you wish to bring with you?" asked the sailor.

"Two; my friend Spilett, and my servant Neb."

"That will be three," replied Pencroft; "and with Herbert and me fiv e. But the balloon will hold six--"

"That will be enough, we will go," answered Harding in a firm voice.

This "we" included Spilett, for the reporter, as his friend well kne \mbox{w} ,

was not a man to draw back, and when the project was communicated to him he

approved of it unreservedly. What astonished him was, that so simple an

idea had not occurred to him before. As to Neb, he followed his mast er

wherever his master wished to go.

"This evening, then," said Pencroft, "we will all meet out there."

"This evening, at ten o'clock," replied Captain Harding; "and Heaven grant that the storm does not abate before our departure."

Pencroft took leave of the two friends, and returned to his lodging,

where young Herbert Brown had remained. The courageous boy knew of the

sailor's plan, and it was not without anxiety that he awaited the result of

the proposal being made to the engineer. Thus five determined person s were

about to abandon themselves to the mercy of the tempestuous elements $^{\text{!}}$

No! the storm did not abate, and neither Jonathan Forster nor his companions dreamed of confronting it in that frail car.

It would be a terrible journey. The engineer only feared one thing; it

was that the balloon, held to the ground and dashed about by the win d,

would be torn into shreds. For several hours he roamed round the nearly-

deserted square, surveying the apparatus. Pencroft did the same on h is

side, his hands in his pockets, yawning now and then like a man who did not

know how to kill the time, but really dreading, like his friend, eit her the

escape or destruction of the balloon. Evening arrived. The night was dark

in the extreme. Thick mists passed like clouds close to the ground. Rain

fell mingled with snow. it was very cold. A mist hung over Richmond. it

seemed as if the violent storm had produced a truce between the besi egers

and the besieged, and that the cannon were silenced by the louder detonations of the storm. The streets of the town were deserted. It had not

even appeared necessary in that horrible weather to place a guard in the

square, in the midst of which plunged the balloon. Everything favore d the

departure of the prisoners, but what might possibly be the terminati on of

the hazardous voyage they contemplated in the midst of the furious elements?--

"Dirty weather!" exclaimed Pencroft, fixing his hat firmly on his he ad with a blow of his fist; "but pshaw, we shall succeed all the same!"

At half-past nine, Harding and his companions glided from different directions into the square, which the gas-lamps, extinguished by the wind,

had left in total obscurity. Even the enormous balloon, almost beate $\ensuremath{\text{n}}$ to

the ground, could not be seen. Independently of the sacks of ballast . to

which the cords of the net were fastened, the car was held by a strong

cable passed through a ring in the pavement. The five prisoners met by the

car. They had not been perceived, and such was the darkness that the y could

not even see each other.

Without speaking a word, Harding, Spilett, Neb, and Herbert took the ir

places in the car, while Pencroft by the engineer's order detached successively the bags of ballast. It was the work of a few minutes only,

and the sailor rejoined his companions.

The balloon was then only held by the cable, and the engineer had no thing

to do but to give the word.

At that moment a dog sprang with a bound into the car. It was Top, a favorite of the engineer. The faithful creature, having broken his c

hain,

had followed his master. He, however, fearing that its additional we ight

might impede their ascent, wished to send away the animal.

"One more will make but little difference, poor beast!" exclaimed Pencroft, heaving out two bags of sand, and as he spoke letting go the

cable; the balloon ascending in an oblique direction, disappeared, a fter

having dashed the car against two chimneys, which it threw down as i t swept by them.

Then, indeed, the full rage of the hurricane was exhibited to the voyagers. During the night the engineer could not dream of descending, and

when day broke, even a glimpse of the earth below was intercepted by fog.

Five days had passed when a partial clearing allowed them to see the wide

extending ocean beneath their feet, now lashed into the maddest fury by the gale.

Our readers will recollect what befell these five daring individuals who

set out on their hazardous expedition in the balloon on the 20th of March.

Five days afterwards four of them were thrown on a desert coast, sev

thousand miles from their country! But one of their number was missing, the

man who was to be their guide, their leading spirit, the engineer, C aptain

Harding! The instant they had recovered their feet, they all hurried to the

beach in the hopes of rendering him assistance.

Chapter 3

The engineer, the meshes of the net having given way, had been carried off

by a wave. His dog also had disappeared. The faithful animal had voluntarily leaped out to help his master. "Forward," cried the reporter;

and all four, Spilett, Herbert, Pencroft, and Neb, forgetting their fatigue, began their search. Poor Neb shed bitter tears, giving way to

despair at the thought of having lost the only being he loved on ear th.

Only two minutes had passed from the time when Cyrus Harding disappe ared

to the moment when his companions set foot on the ground. They had hopes

therefore of arriving in time to save him. "Let us look for him! let us

look for him!" cried Neb.

"Yes, Neb," replied Gideon Spilett, "and we will find him too!"

"Living, I trust!"

"Still living!"

"Can he swim?" asked Pencroft.

"Yes," replied Neb, "and besides, Top is there."

The sailor, observing the heavy surf on the shore, shook his head.

The engineer had disappeared to the north of the shore, and nearly h alf a

mile from the place where the castaways had landed. The nearest poin t of

the beach he could reach was thus fully that distance off.

It was then nearly six o'clock. A thick fog made the night very dark . The

castaways proceeded toward the north of the land on which chance had thrown

them, an unknown region, the geographical situation of which they could not

even guess. They were walking upon a sandy soil, mingled with stones, which

appeared destitute of any sort of vegetation. The ground, very unequal and

rough, was in some places perfectly riddled with holes, making walking

extremely painful. From these holes escaped every minute great birds of

clumsy flight, which flew in all directions. Others, more active, ro se in

flocks and passed in clouds over their heads. The sailor thought he recognized gulls and cormorants, whose shrill cries rose above the roaring

of the sea.

From time to time the castaways stopped and shouted, then listened for

some response from the ocean, for they thought that if the engineer had

landed, and they had been near to the place, they would have heard the

barking of the dog Top, even should Harding himself have been unable to

give any sign of existence. They stopped to listen, but no sound aro se

above the roaring of the waves and the dashing of the surf. The litt

le band

then continued their march forward, searching into every hollow of the shore.

After walking for twenty minutes, the four castaways were suddenly brought to a standstill by the sight of foaming billows close to the ir

feet. The solid ground ended here. They found themselves at the extremity

of a sharp point on which the sea broke furiously.

"It is a promontory," said the sailor; "we must retrace our steps, holding towards the right, and we shall thus gain the mainland."

"But if he is there," said Neb, pointing to the ocean, whose waves s hone

of a snowy white in the darkness. "Well, let us call again," and all

uniting their voices, they gave a vigorous shout, but there came no reply.

They waited for a lull, then began again; still no reply.

The castaways accordingly returned, following the opposite side of the

promontory, over a soil equally sandy and rugged. However, Pencroft observed that the shore was more equal, that the ground rose, and he

declared that it was joined by a long slope to a hill, whose massive front

he thought that he could see looming indistinctly through the mist.

birds were less numerous on this part of the shore; the sea was also less

tumultuous, and they observed that the agitation of the waves was diminished. The noise of the surf was scarcely heard. This side of the

promontory evidently formed a semicircular bay, which the sharp poin +

sheltered from the breakers of the open sea. But to follow this direction

was to go south, exactly opposite to that part of the coast where Harding

might have landed. After a walk of a mile and a half, the shore presented

no curve which would permit them to return to the north. This promon tory,

of which they had turned the point, must be attached to the mainland . The

castaways, although their strength was nearly exhausted, still march ed

courageously forward, hoping every moment to meet with a sudden angle which

would set them in the first direction. What was their disappointment, when,

after trudging nearly two miles, having reached an elevated point co

mposed

of slippery rocks, they found themselves again stopped by the sea.

"We are on an islet," said Pencroft, "and we have surveyed it from o

extremity to the other."

The sailor was right; they had been thrown, not on a continent, not even

on an island, but on an islet which was not more than two miles in length,

with even a less breadth.

Was this barren spot the desolate refuge of sea-birds, strewn with s tones

and destitute of vegetation, attached to a more important archipelag o? It

was impossible to say. When the voyagers from their car saw the land

through the mist, they had not been able to reconnoiter it sufficiently.

However, Pencroft, accustomed with his sailor eyes to piece through the

gloom, was almost certain that he could clearly distinguish in the \boldsymbol{w} est

confused masses which indicated an elevated coast. But they could no t in

the dark determine whether it was a single island, or connected with

others. They could not leave it either, as the sea surrounded them; they

must therefore put off till the next day their search for the engine er.

from whom, alas! not a single cry had reached them to show that he w as

still in existence.

"The silence of our friend proves nothing," said the reporter. "Perh aps

he has fainted or is wounded, and unable to reply directly, so we will not

despair."

The reporter then proposed to light a fire on a point of the islet, which

would serve as a signal to the engineer. But they searched in vain for wood

or dry brambles; nothing but sand and stones were to be found. The grief of

Neb and his companions, who were all strongly attached to the intrep id

Harding, can be better pictured than described. It was too evident that

they were powerless to help him. They must wait with what patience they

could for daylight. Either the engineer had been able to save himsel

f, and

had already found a refuge on some point of the coast, or he was los t for

ever! The long and painful hours passed by. The cold was intense. The

castaways suffered cruelly, but they scarcely perceived it. They did not

even think of taking a minute's rest. Forgetting everything but their

chief, hoping or wishing to hope on, they continued to walk up and down on

this sterile spot, always returning to its northern point, where the y could

approach nearest to the scene of the catastrophe. They listened, the Y

called, and then uniting their voices, they endeavored to raise even

louder shout than before, which would be transmitted to a great distance.

The wind had now fallen almost to a calm, and the noise of the sea b egan

also to subside. One of Neb's shouts even appeared to produce an ech

Herbert directed Pencroft's attention to it, adding, "That proves that

there is a coast to the west, at no great distance." The sailor nodd ed;

besides, his eyes could not deceive him. If he had discovered land, however

indistinct it might appear, land was sure to be there. But that dist ant

echo was the only response produced by Neb's shouts, while a heavy g

hung over all the part east of the island.

Meanwhile, the sky was clearing little by little. Towards midnight the

stars shone out, and if the engineer had been there with his companions he

would have remarked that these stars did not belong to the Northern Hemisphere. The Polar Star was not visible, the constellations were not

those which they had been accustomed to see in the United States; the

Southern Cross glittered brightly in the sky.

The night passed away. Towards five o'clock in the morning of the 25 th of

March, the sky began to lighten; the horizon still remained dark, but with

daybreak a thick mist rose from the sea, so that the eye could scarc ely

penetrate beyond twenty feet or so from where they stood. At length the fog

gradually unrolled itself in great heavily moving waves.

It was unfortunate, however, that the castaways could distinguish no thing

around them. While the gaze of the reporter and Neb were cast upon the

ocean, the sailor and Herbert looked eagerly for the coast in the we st. But

not a speck of land was visible. "Never mind," said Pencroft, "though I do

not see the land, I feel it... it is there... there... as sure as the fact

that we are no longer at Richmond." But the fog was not long in rising. it

was only a fine-weather mist. A hot sun soon penetrated to the surface of

the island. About half-past six, three-quarters of an hour after sun rise,

the mist became more transparent. It grew thicker above, but cleared away

below. Soon the isle appeared as if it had descended from a cloud, then the

sea showed itself around them, spreading far away towards the east, but

bounded on the west by an abrupt and precipitous coast.

Yes! the land was there. Their safety was at least provisionally insured.

The islet and the coast were separated by a channel about half a \min e in

breadth, through which rushed an extremely rapid current.

However, one of the castaways, following the impulse of his heart, immediately threw himself into the current, without consulting his companions, without saying a single word. It was Neb. He was in hast e to be

on the other side, and to climb towards the north. It had been impossible

to hold him back. Pencroft called him in vain. The reporter prepared to

follow him, but Pencroft stopped him. "Do you want to cross the chan nel?"

he asked. "Yes," replied Spilett. "All right!" said the seaman; "wai t a

bit; Neb is well able to carry help to his master. If we venture int o the

channel, we risk being carried into the open sea by the current, whi ch is

running very strong; but, if I'm not wrong, it is ebbing. See, the tide is

going down over the sand. Let us have patience, and at low water it is

possible we may find a fordable passage." "You are right," replied the

reporter, "we will not separate more than we can help."

During this time Neb was struggling vigorously against the current. He

was crossing in an oblique direction. His black shoulders could be seen

emerging at each stroke. He was carried down very quickly, but he al so made

way towards the shore. It took more than half an hour to cross from the

islet to the land, and he reached the shore several hundred feet fro $\ensuremath{\mathsf{m}}$ the

place which was opposite to the point from which he had started.

Landing at the foot of a high wall of granite, he shook himself vigorously; and then, setting off running, soon disappeared behind a rocky

point, which projected to nearly the height of the northern extremit y of

the islet.

Neb's companions had watched his daring attempt with painful anxiety , and

when he was out of sight, they fixed their attention on the land whe re

their hope of safety lay, while eating some shell-fish with which the sand

was strewn. It was a wretched repast, but still it was better than n othing.

The opposite coast formed one vast bay, terminating on the south by a very

sharp point, which was destitute of all vegetation, and was of a very wild

aspect. This point abutted on the shore in a grotesque outline of high

granite rocks. Towards the north, on the contrary, the bay widened, and a

more rounded coast appeared, trending from the southwest to the nort heast,

and terminating in a slender cape. The distance between these two extremities, which made the bow of the bay, was about eight miles. H alf a

mile from the shore rose the islet, which somewhat resembled the car cass

of a gigantic whale. Its extreme breadth was not more than a quarter of a mile.

Opposite the islet, the beach consisted first of sand, covered with black

stones, which were now appearing little by little above the retreating

tide. The second level was separated by a perpendicular granite cliff.

terminated at the top by an unequal edge at a height of at least 300 feet.

It continued thus for a length of three miles, ending suddenly on the right

with a precipice which looked as if cut by the hand of man. On the l eft,

above the promontory, this irregular and jagged cliff descended by a long

slope of conglomerated rocks till it mingled with the ground of the southern point. On the upper plateau of the coast not a tree appeare d. It

was a flat tableland like that above Cape Town at the Cape of Good H ope,

but of reduced proportions; at least so it appeared seen from the is

However, verdure was not wanting to the right beyond the precipice. They

could easily distinguish a confused mass of great trees, which extended

beyond the limits of their view. This verdure relieved the eye, so long

wearied by the continued ranges of granite. Lastly, beyond and above the

plateau, in a northwesterly direction and at a distance of at least seven

miles, glittered a white summit which reflected the sun's rays. It was that

of a lofty mountain, capped with snow.

The question could not at present be decided whether this land forme d an

island, or whether it belonged to a continent. But on beholding the convulsed masses heaped up on the left, no geologist would have hesi tated

to give them a volcanic origin, for they were unquestionably the wor \boldsymbol{k} of

subterranean convulsions.

Gideon Spilett, Pencroft, and Herbert attentively examined this land . on

which they might perhaps have to live many long years; on which inde ed they

might even die, should it be out of the usual track of vessels, as w as

likely to be the case.

"Well," asked Herbert, "what do you say, Pencroft?"

"There is some good and some bad, as in everything," replied the sai lor.

"We shall see. But now the ebb is evidently making. In three hours we will

attempt the passage, and once on the other side, we will try to get out of

this scrape, and I hope may find the captain." Pencroft was not wron g in

his anticipations. Three hours later at low tide, the greater part of the

sand forming the bed of the channel was uncovered. Between the islet and

the coast there only remained a narrow channel which would no doubt be easy

to cross.

About ten o'clock, Gideon Spilett and his companions stripped themse lves

of their clothes, which they placed in bundles on their heads, and then

ventured into the water, which was not more than five feet deep. Her bert,

for whom it was too deep, swam like a fish, and got through capitall y. All

three arrived without difficulty on the opposite shore. Quickly drying

themselves in the sun, they put on their clothes, which they had pre served

from contact with the water, and sat down to take counsel together \boldsymbol{w} hat to

do next.

Chapter 4

All at once the reporter sprang up, and telling the sailor that he \boldsymbol{w} ould

rejoin them at that same place, he climbed the cliff in the direction which

the Negro Neb had taken a few hours before. Anxiety hastened his steps, for

he longed to obtain news of his friend, and he soon disappeared roun d an

angle of the cliff. Herbert wished to accompany him.

"Stop here, my boy," said the sailor; "we have to prepare an encampm ${\sf ent}$,

and to try and find rather better grub than these shell-fish. Our friends

will want something when they come back. There is work for everybody ."

"I am ready, " replied Herbert.

"All right," said the sailor; "that will do. We must set about it regularly. We are tired, cold, and hungry; therefore we must have sh elter,

fire, and food. There is wood in the forest, and eggs in nests; we have

only to find a house."

"Very well," returned Herbert, "I will look for a cave among the rocks,

and I shall be sure to discover some hole into which we can creep."

"All right," said Pencroft; "go on, my boy."

They both walked to the foot of the enormous wall over the beach, far

from which the tide had now retreated; but instead of going towards

the

north, they went southward. Pencroft had remarked, several hundred feet

from the place at which they landed, a narrow cutting, out of which he

thought a river or stream might issue. Now, on the one hand it was important to settle themselves in the neighborhood of a good stream of

water, and on the other it was possible that the current had thrown Cyrus

Harding on the shore there.

The cliff, as has been said, rose to a height of three hundred feet, but

the mass was unbroken throughout, and even at its base, scarcely was hed by

the sea, it did not offer the smallest fissure which would serve as a

dwelling. It was a perpendicular wall of very hard granite, which even the

waves had not worn away. Towards the summit fluttered myriads of sea -fowl,

and especially those of the web-footed species with long, flat, poin ted

beaks--a clamorous tribe, bold in the presence of man, who probably for the

first time thus invaded their domains. Pencroft recognized the skua and

other gulls among them, the voracious little sea-mew, which in great

numbers nestled in the crevices of the granite. A shot fired among this

swarm would have killed a great number, but to fire a shot a gun was

needed, and neither Pencroft nor Herbert had one; besides this, gull s and

sea-mews are scarcely eatable, and even their eggs have a detestable taste.

However, Herbert, who had gone forward a little more to the left, so on came

upon rocks covered with sea-weed, which, some hours later, would be hidden

by the high tide. On these rocks, in the midst of slippery wrack, ab ounded

bivalve shell-fish, not to be despised by starving people. Herbert c alled

Pencroft, who ran up hastily.

"Here are mussels!" cried the sailor; "these will do instead of eggs!"

"They are not mussels," replied Herbert, who was attentively examining

the molluscs attached to the rocks; "they are lithodomes."

"Are they good to eat?" asked Pencroft.

"Perfectly so."

"Then let us eat some lithodomes."

The sailor could rely upon Herbert; the young boy was well up in nat ural

history, and always had had quite a passion for the science. His fat her had

encouraged him in it, by letting him attend the lectures of the best

professors in Boston, who were very fond of the intelligent, industr ious

lad. And his turn for natural history was, more than once in the course of

time, of great use, and he was not mistaken in this instance. These lithodomes were oblong shells, suspended in clusters and adhering very

tightly to the rocks. They belong to that species of molluscous perforators

which excavate holes in the hardest stone; their shell is rounded at both

ends, a feature which is not remarked in the common mussel.

Pencroft and Herbert made a good meal of the lithodomes, which were then

half opened to the sun. They ate them as oysters, and as they had a strong $% \left(1\right) =\left(1\right) +\left(1\right)$

peppery taste, they were palatable without condiments of any sort.

Their hunger was thus appeased for the time, but not their thirst, which

increased after eating these naturally-spiced molluscs. They had the $\ensuremath{\text{n}}$ to

find fresh water, and it was not likely that it would be wanting in such a

capriciously uneven region. Pencroft and Herbert, after having taken the

precaution of collecting an ample supply of lithodomes, with which they

filled their pockets and handkerchiefs, regained the foot of the cliff.

Two hundred paces farther they arrived at the cutting, through which , as

Pencroft had guessed, ran a stream of water, whether fresh or not was to be

ascertained. At this place the wall appeared to have been separated by some

violent subterranean force. At its base was hollowed out a little creek,

the farthest part of which formed a tolerably sharp angle. The water course

at that part measured one hundred feet in breadth, and its two banks on

each side were scarcely twenty feet high. The river became strong al

most

directly between the two walls of granite, which began to sink above the

mouth; it then suddenly turned and disappeared beneath a wood of stunted

trees half a mile off.

"Here is the water, and yonder is the wood we require!" said Pencrof t.

"Well, Herbert, now we only want the house."

The water of the river was limpid. The sailor ascertained that at this

time--that is to say, at low tide, when the rising floods did not reach it

--it was sweet. This important point established, Herbert looked for some

cavity which would serve them as a retreat, but in vain; everywhere the

wall appeared smooth, plain, and perpendicular.

However, at the mouth of the watercourse and above the reach of the high

tide, the convulsions of nature had formed, not a grotto, but a pile of

enormous rocks, such as are often met with in granite countries and which

bear the name of "Chimneys."

Pencroft and Herbert penetrated quite far in among the rocks, by san dy

passages in which light was not wanting, for it entered through the openings which were left between the blocks, of which some were only

sustained by a miracle of equilibrium; but with the light came also air--a

regular corridor-gale--and with the wind the sharp cold from the ext erior.

However, the sailor thought that by stopping-up some of the openings with a

mixture of stones and sand, the Chimneys could be rendered habitable . Their

geometrical plan represented the typographical sign "&," which signifies

"et cetera" abridged, but by isolating the upper mouth of the sign, through

which the south and west winds blew so strongly, they could succeed in

making the lower part of use.

"Here's our work," said Pencroft, "and if we ever see Captain Hardin g again, he will know how to make something of this labyrinth."

"We shall see him again, Pencroft," cried Herbert, "and when be returns

he must find a tolerable dwelling here. It will be so, if we can mak e a

fireplace in the left passage and keep an opening for the smoke."

"So we can, my boy," replied the sailor, "and these Chimneys will se rve

our turn. Let us set to work, but first come and get a store of fuel . I

think some branches will be very useful in stopping up these opening s,

through which the wind shrieks like so many fiends."

Herbert and Pencroft left the Chimneys, and, turning the angle, they

began to climb the left bank of the river. The current here was quit e

rapid, and drifted down some dead wood. The rising tide--and it coul d

already be perceived--must drive it back with force to a considerable

distance. The sailor then thought that they could utilize this ebb a nd flow

for the transport of heavy objects.

After having walked for a quarter of an hour, the sailor and the boy

arrived at the angle which the river made in turning towards the lef t. From

this point its course was pursued through a forest of magnificent trees.

These trees still retained their verdure, notwithstanding the advanced

season, for they belonged to the family of "coniferae," which is spread

over all the regions of the globe, from northern climates to the tropics.

The young naturalist recognized especially the "deedara," which are very

numerous in the Himalayan zone, and which spread around them a most agreeable odor. Between these beautiful trees sprang up clusters of firs,

whose opaque open parasol boughs spread wide around. Among the long grass,

Pencroft felt that his feet were crushing dry branches which crackle d like

fireworks.

"Well, my boy," said he to Herbert, "if I don't know the name of the

trees, at any rate I reckon that we may call them 'burning wood,' and just

now that's the chief thing we want."

"Let us get a supply," replied Herbert, who immediately set to work.

The collection was easily made. It was not even necessary to lop the

trees, for enormous quantities of dead wood were lying at their feet; but

if fuel was not wanting, the means of transporting it was not yet fo und.

The wood, being very dry, would burn rapidly; it was therefore neces sary to

carry to the Chimneys a considerable quantity, and the loads of two men

would not be sufficient. Herbert remarked this.

"Well, my boy," replied the sailor, "there must be some way of carry ing

this wood; there is always a way of doing everything. If we had a cart or a

boat, it would be easy enough."

"But we have the river," said Herbert.

"Right," replied Pencroft; "the river will be to us like a road which

carries of itself, and rafts have not been invented for nothing."

"Only," observed Herbert, "at this moment our road is going the wron g way, for the tide is rising!"

"We shall be all right if we wait till it ebbs," replied the sailor, "and

then we will trust it to carry our fuel to the Chimneys. Let us get the

raft ready."

The sailor, followed by Herbert, directed his steps towards the rive r.

They both carried, each in proportion to his strength, a load of woo d bound

in fagots. They found on the bank also a great quantity of dead branches in

the midst of grass, among which the foot of man had probably never before

trod. Pencroft began directly to make his raft. In a kind of little bay,

created by a point of the shore which broke the current, the sailor and the

lad placed some good-sized pieces of wood, which they had fastened together

with dry creepers. A raft was thus formed, on which they stacked all they

had collected, sufficient, indeed, to have loaded at least twenty me ${\tt n.}\ {\tt In}$

an hour the work was finished, and the raft moored to the bank, awai ted the

turning of the tide.

There were still several hours to be occupied, and with one consent Pencroft and Herbert resolved to gain the upper plateau, so as to have a

more extended view of the surrounding country.

Exactly two hundred feet behind the angle formed by the river, the w all,

terminated by a fall of rocks, died away in a gentle slope to the ed ge of

the forest. It was a natural staircase. Herbert and the sailor began their

ascent; thanks to the vigor of their muscles they reached the summit in a

few minutes; and proceeded to the point above the mouth of the river

On attaining it, their first look was cast upon the ocean which not long

before they had traversed in such a terrible condition. They observe d, with

emotion, all that part to the north of the coast on which the catast rophe

had taken place. It was there that Cyrus Harding had disappeared. They

looked to see if some portion of their balloon, to which a man might

possibly cling, yet existed. Nothing! The sea was but one vast water y

desert. As to the coast, it was solitary also. Neither the reporter nor Neb

could be anywhere seen. But it was possible that at this time they were

both too far away to be perceived.

"Something tells me," cried Herbert, "that a man as energetic as Captain

Harding would not let himself be drowned like other people. He must have

reached some point of the shore; don't you think so, Pencroft?"

The sailor shook his head sadly. He little expected ever to see Cyru s

Harding again; but wishing to leave some hope to Herbert: "Doubtless

doubtless," said he; "our engineer is a man who would get out of a s crape

to which any one else would yield."

In the meantime he examined the coast with great attention. Stretche d out

below them was the sandy shore, bounded on the right of the river's mouth

by lines of breakers. The rocks which were visible appeared like amp hibious

monsters reposing in the surf. Beyond the reef, the sea sparkled ben eath

the sun's rays. To the south a sharp point closed the horizon, and i t $\ensuremath{\text{could}}$

not be seen if the land was prolonged in that direction, or if it ran

southeast and southwest, which would have made this coast a very lon g

peninsula. At the northern extremity of the bay the outline of the shore

was continued to a great distance in a wider curve. There the shore was

low, flat, without cliffs, and with great banks of sand, which the tide

left uncovered. Pencroft and Herbert then returned towards the west. Their

attention was first arrested by the snow-topped mountain which rose at a

distance of six or seven miles. From its first declivities to within two

miles of the coast were spread vast masses of wood, relieved by larg e green

patches, caused by the presence of evergreen trees. Then, from the e dge of

this forest to the shore extended a plain, scattered irregularly with

groups of trees. Here and there on the left sparkled through glades the

waters of the little river; they could trace its winding course back

towards the spurs of the mountain, among which it seemed to spring. At the

point where the sailor had left his raft of wood, it began to run be tween

the two high granite walls; but if on the left bank the wall remaine d clear

and abrupt, on the right bank, on the contrary, it sank gradually, the

massive sides changed to isolated rocks, the rocks to stones, the st ones to

shingle running to the extremity of the point.

"Are we on an island?" murmured the sailor.

"At any rate, it seems to be big enough," replied the lad.

"An island, ever so big, is an island all the same!" said Pencroft.

But this important question could not yet be answered. A more perfec

survey had to be made to settle the point. As to the land itself, is land or

continent, it appeared fertile, agreeable in its aspect, and varied in its productions.

"This is satisfactory," observed Pencroft; "and in our misfortune, \mathbf{w}

must thank Providence for it."

"God be praised!" responded Herbert, whose pious heart was full of gratitude to the Author of all things.

Pencroft and Herbert examined for some time the country on which the y had

been cast; but it was difficult to guess after so hasty an inspection what

the future had in store for them.

They then returned, following the southern crest of the granite plat form,

bordered by a long fringe of jagged rocks, of the most whimsical shapes.

Some hundreds of birds lived there nestled in the holes of the stone;

Herbert, jumping over the rocks, startled a whole flock of these win ged

creatures.

"Oh!" cried he, "those are not gulls nor sea-mews!"

"What are they then?" asked Pencroft.

"Upon my word, one would say they were pigeons!"

"Just so, but these are wild or rock pigeons. I recognize them by the

double band of black on the wing, by the white tail, and by their sl ate-

colored plumage. But if the rock-pigeon is good to eat, its eggs mus t be

excellent, and we will soon see how many they may have left in their

nests!"

"We will not give them time to hatch, unless it is in the shape of a n omelet!" replied Pencroft merrily.

"But what will you make your omelet in?" asked Herbert; "in your hat?"

"Well!" replied the sailor, "I am not quite conjuror enough for that; we must come down to eggs in the shell, my boy, and I will undertake to despatch the hardest!"

Pencroft and Herbert attentively examined the cavities in the granit e, and they really found eggs in some of the hollows. A few dozen being collected, were packed in the sailor's handkerchief, and as the time when

the tide would be full was approaching, Pencroft and Herbert began t $\ensuremath{\text{o}}$

redescend towards the watercourse. When they arrived there, it was a $\ensuremath{\text{n}}$ hour

after midday. The tide had already turned. They must now avail thems elves

of the ebb to take the wood to the mouth. Pencroft did not intend to let

the raft go away in the current without guidance, neither did he mean to

embark on it himself to steer it. But a sailor is never at a loss when

there is a question of cables or ropes, and Pencroft rapidly twisted a

cord, a few fathoms long, made of dry creepers. This vegetable cable was

fastened to the after-part of the raft, and the sailor held it in his hand

while Herbert, pushing off the raft with a long pole, kept it in the

current. This succeeded capitally. The enormous load of wood drifted down

the current. The bank was very equal; there was no fear that the raf t would

run aground, and before two o'clock they arrived at the river's mout h, a

few paces from the Chimneys.

Chapter 5

Pencroft's first care, after unloading the raft, was to render the c ave

habitable by stopping up all the holes which made it draughty. Sand,

stones, twisted branches, wet clay, closed up the galleries open to the

south winds. One narrow and winding opening at the side was kept, to lead

out the smoke and to make the fire draw. The cave was thus divided i nto

three or four rooms, if such dark dens with which a donkey would scarcely

have been contented deserved the name. But they were dry, and there was

space to stand upright, at least in the principal room, which occupied the

center. The floor was covered with fine sand, and taking all in all they

were well pleased with it for want of a better.

"Perhaps," said Herbert, while he and Pencroft were working, "our companions have found a superior place to ours."

"Very likely," replied the seaman; "but, as we don't know, we must work

all the same. Better to have two strings to one's bow than no string at all!"

"Oh!" exclaimed Herbert, "how jolly it will be if they were to find Captain Harding and were to bring him back with them!"

"Yes, indeed!" said Pencroft, "that was a man of the right sort."

"Was!" exclaimed Herbert, "do you despair of ever seeing him again?"

"God forbid!" replied the sailor. Their work was soon done, and Penc roft declared himself very well satisfied.

"Now," said he, "our friends can come back when they like. They will find a good enough shelter."

They now had only to make a fireplace and to prepare the supper--an easy

task. Large flat stones were placed on the ground at the opening of the

narrow passage which had been kept. This, if the smoke did not take the

heat out with it, would be enough to maintain an equal temperature i nside.

Their wood was stowed away in one of the rooms, and the sailor laid in the

fireplace some logs and brushwood. The seaman was busy with this, when

Herbert asked him if he had any matches.

"Certainly," replied Pencroft, "and I may say happily, for without matches or tinder we should be in a fix."

"Still we might get fire as the savages do," replied Herbert, "by ru bbing

two bits of dry stick one against the other."

"All right; try, my boy, and let's see if you can do anything beside s exercising your arms."

"Well, it's a very simple proceeding, and much used in the islands of the Pacific."

"I don't deny it," replied Pencroft, "but the savages must know how to do

it or employ a peculiar wood, for more than once I have tried to get fire

in that way, but I could never manage it. I must say I prefer matche s. By

the bye, where are my matches?"

Pencroft searched in his waistcoat for the box, which was always the re, for he was a confirmed smoker. He could not find it; he rummaged the pockets of his trousers, but, to his horror, he could nowhere discover the

"Here's a go!" said he, looking at Herbert. "The box must have falle n out of my pocket and got lost! Surely, Herbert, you must have something-a tinder-box--anything that can possibly make fire!"

"No, I haven't, Pencroft."

box.

The sailor rushed out, followed by the boy. On the sand, among the rocks, near the river's bank, they both searched carefully, but in vain. The box

"Pencroft," asked Herbert, "didn't you throw it out of the car?"

was of copper, and therefore would have been easily seen.

"I knew better than that," replied the sailor; "but such a small article

could easily disappear in the tumbling about we have gone through. I would

rather even have lost my pipe! Confound the box! Where can it be?"

"Look here, the tide is going down," said Herbert; "let's run to the place where we landed."

It was scarcely probable that they would find the box, which the wav es

had rolled about among the pebbles, at high tide, but it was as well to

try. Herbert and Pencroft walked rapidly to the point where they had landed

the day before, about two hundred feet from the cave. They hunted there,

among the shingle, in the clefts of the rocks, but found nothing. If the

box had fallen at this place it must have been swept away by the wav es. As

the sea went down, they searched every little crevice with no result . It

was a grave loss in their circumstances, and for the time irreparable.

Pencroft could not hide his vexation; he looked very anxious, but said not

a word. Herbert tried to console him by observing, that if they had found

the matches, they would, very likely, have been wetted by the sea an

d useless.

"No, my boy," replied the sailor; "they were in a copper box which s hut very tightly; and now what are we to do?"

very erginery, and now what are we to do.

"We shall certainly find some way of making a fire," said Herbert. "Captain Harding or Mr. Spilett will not be without them."

"Yes," replied Pencroft; "but in the meantime we are without fire, a nd our companions will find but a sorry repast on their return."

"But," said Herbert quickly, "do you think it possible that they hav e no tinder or matches?"

"I doubt it," replied the sailor, shaking his head, "for neither Neb nor

Captain Harding smoke, and I believe that ${\tt Mr.}$ Spilett would rather k eep his

note-book than his match-box."

Herbert did not reply. The loss of the box was certainly to be regre tted,

but the boy was still sure of procuring fire in some way or other. Pencroft, more experienced, did not think so, although he was not a man to

trouble himself about a small or great grievance. At any rate, there was

only one thing to be done--to await the return of Neb and the report er; but

they must give up the feast of hard eggs which they had meant to pre pare,

and a meal of raw flesh was not an agreeable prospect either for the ${\tt mselves}$

or for the others.

Before returning to the cave, the sailor and Herbert, in the event of

fire being positively unattainable, collected some more shell-fish, and

then silently retraced their steps to their dwelling.

Pencroft, his eyes fixed on the ground, still looked for his box. He even

climbed up the left bank of the river from its mouth to the angle where the

raft had been moored. He returned to the plateau, went over it in every

direction, searched among the high grass on the border of the forest, all

in vain.

It was five in the evening when he and Herbert re-entered the cave.

It is

useless to say that the darkest corners of the passages were ransack ed

before they were obliged to give it up in despair. Towards six o'clock,

when the sun was disappearing behind the high lands of the west, Her bert,

who was walking up and down on the strand, signalized the return of Neb and Spilett.

They were returning alone! . . . The boy's heart sank; the sailor

been deceived in his forebodings; the engineer, Cyrus Harding, had n ot been $\frac{1}{2}$

found!

had not

The reporter, on his arrival, sat down on a rock, without saying anything. Exhausted with fatigue, dying of hunger, he had not streng th to utter a word.

As to Neb, his red eyes showed how he had cried, and the tears which he could not restrain told too clearly that he had lost all hope.

The reporter recounted all that they had done in their attempt to recover

Cyrus Harding. He and Neb had surveyed the coast for a distance of eight

miles and consequently much beyond the place where the balloon had fallen

the last time but one, a fall which was followed by the disappearanc e of

the engineer and the dog Top. The shore was solitary; not a vestige of a

mark. Not even a pebble recently displaced; not a trace on the sand; not a

human footstep on all that part of the beach. It was clear that that

portion of the shore had never been visited by a human being. The se

as deserted as the land, and it was there, a few hundred feet from the

coast, that the engineer must have found a tomb.

As Spilett ended his account, Neb jumped up, exclaiming in a voice which

showed how hope struggled within him, "No! he is not dead! he can't be

dead! It might happen to any one else, but never to him! He could ge t out

of anything!" Then his strength forsaking him, "Oh! I can do no more!" he murmured.

"Neb," said Herbert, running to him, "we will find him! God will giv e him

back to us! But in the meantime you are hungry, and you must eat something."

So saying, he offered the poor Negro a few handfuls of shell-fish, w hich

was indeed wretched and insufficient food. Neb had not eaten anythin g for

several hours, but he refused them. He could not, would not live wit hout

his master.

As to Gideon Spilett, he devoured the shell-fish, then he laid himse lf

down on the sand, at the foot of a rock. He was very weak, but calm.

Herbert went up to him, and taking his hand, "Sir," said he, "we have found

a shelter which will be better than lying here. Night is advancing. Come

and rest! To-morrow we will search farther."

The reporter got up, and guided by the boy went towards the cave. On the

way, Pencroft asked him in the most natural tone, if by chance he happened

to have a match or two.

The reporter stopped, felt in his pockets, but finding nothing said, "I had some, but I must have thrown them away."

The seaman then put the same question to Neb and received the same answer.

"Confound it!" exclaimed the sailor.

The reporter heard him and seizing his arm, "Have you no matches?" he asked.

"Not one, and no fire in consequence."

"Ah!" cried Neb, "if my master was here, he would know what to do!"

The four castaways remained motionless, looking uneasily at each oth er.

Herbert was the first to break the silence by saying, "Mr. Spilett, you are

a smoker and always have matches about you; perhaps you haven't look ed

well, try again, a single match will be enough!"

The reporter hunted again in the pockets of his trousers, waistcoat, and

great-coat, and at last to Pencroft's great joy, no less to his extreme

surprise, he felt a tiny piece of wood entangled in the lining of his

waistcoat. He seized it with his fingers through the stuff, but he could

not get it out. If this was a match and a single one, it was of great

importance not to rub off the phosphorus.

"Will you let me try?" said the boy, and very cleverly, without breaking

it, he managed to draw out the wretched yet precious little bit of \boldsymbol{w} ood

which was of such great importance to these poor men. It was unused.

"Hurrah!" cried Pencroft; "it is as good as having a whole cargo!" He took the match, and, followed by his companions, entered the cave.

This small piece of wood, of which so many in an inhabited country a

wasted with indifference and are of no value, must here be used with the $\dot{}$

greatest caution.

The sailor first made sure that it was quite dry; that done, "We mus t have some paper," said he.

"Here," replied Spilett, after some hesitation tearing a leaf out of his note-book.

Pencroft took the piece of paper which the reporter held out to him, and

knelt down before the fireplace. Some handfuls of grass, leaves, and dry

moss were placed under the fagots and disposed in such a way that the air

could easily circulate, and the dry wood would rapidly catch fire.

Pencroft then twisted the piece of paper into the shape of a cone, a s

smokers do in a high wind, and poked it in among the moss. Taking a small,

rough stone, he wiped it carefully, and with a beating heart, holding his

breath, he gently rubbed the match. The first attempt did not produce any

effect. Pencroft had not struck hard enough, fearing to rub off the phosphorus.

"No, I can't do it," said he, "my hand trembles, the match has misse d

fire; I cannot, I will not!" and rising, he told Herbert to take his place.

Certainly the boy had never in all his life been so nervous. Prometh eus

going to steal the fire from heaven could not have been more anxious . He

did not hesitate, however, but struck the match directly.

A little spluttering was heard and a tiny blue flame sprang up, making a

choking smoke. Herbert quickly turned the match so as to augment the flame,

and then slipped it into the paper cone, which in a few seconds too caught

fire, and then the moss.

A minute later the dry wood crackled and a cheerful flame, assisted by

the vigorous blowing of the sailor, sprang up in the midst of the darkness.

"At last!" cried Pencroft, getting up; "I was never so nervous befor e in all my life!"

The flat stones made a capital fireplace. The smoke went quite easily out

at the narrow passage, the chimney drew, and an agreeable warmth was not

long in being felt.

They must now take great care not to let the fire go out, and always to

keep some embers alight. It only needed care and attention, as they had

plenty of wood and could renew their store at any time.

Pencroft's first thought was to use the fire by preparing a more nourishing supper than a dish of shell-fish. Two dozen eggs were brought by

Herbert. The reporter leaning up in a corner, watched these preparations

without saying anything. A threefold thought weighed on his mind. Was Cyrus

still alive? If he was alive, where was he? If he had survived from his

fall, how was it that he had not found some means of making known his

existence? As to Neb, he was roaming about the shore. He was like a body

without a soul.

Pencroft knew fifty ways of cooking eggs, but this time he had no ch oice,

and was obliged to content himself with roasting them under the hot

cinders. In a few minutes the cooking was done, and the seaman invit ed the

reporter to take his share of the supper. Such was the first repast of the

castaways on this unknown coast. The hard eggs were excellent, and a s eggs

contain everything indispensable to man's nourishment, these poor people

thought themselves well off, and were much strengthened by them. Oh! if

only one of them had not been missing at this meal! If the five prisoners

who escaped from Richmond had been all there, under the piled-up roc ks,

before this clear, crackling fire on the dry sand, what thanksgiving must

they have rendered to Heaven! But the most ingenious, the most learn ed, he

who was their unquestioned chief, Cyrus Harding, was, alas! missing, and

his body had not even obtained a burial-place.

Thus passed the 25th of March. Night had come on. Outside could be heard

the howling of the wind and the monotonous sound of the surf breaking on

the shore. The waves rolled the shingle backwards and forwards with a

deafening noise.

The reporter retired into a dark corner after having shortly noted down

the occurrences of the day; the first appearance of this new land, the loss

of their leader, the exploration of the coast, the incident of the ${\tt m}$ atches,

etc.; and then overcome by fatigue, he managed to forget his sorrows in

sleep. Herbert went to sleep directly. As to the sailor, he passed the

night with one eye on the fire, on which he did not spare fuel. But one of

the castaways did not sleep in the cave. The inconsolable, despairing Neb,

notwithstanding all that his companions could say to induce him to take

some rest, wandered all night long on the shore calling on his maste r.

Chapter 6

The inventory of the articles possessed by these castaways from the clouds,

thrown upon a coast which appeared to be uninhabited, was soon made out.

They had nothing, save the clothes which they were wearing at the time of

the catastrophe. We must mention, however, a note-book and a watch w hich

Gideon Spilett had kept, doubtless by inadvertence, not a weapon, no t a

tool, not even a pocket-knife; for while in the car they had thrown out

everything to lighten the balloon. The imaginary heroes of Daniel De foe or

of Wyss, as well as Selkirk and Raynal shipwrecked on Juan Fernandez and on

the archipelago of the Aucklands, were never in such absolute destitution.

Either they had abundant resources from their stranded vessels, in g rain,

cattle, tools, ammunition, or else some things were thrown up on the coast

which supplied them with all the first necessities of life. But here , not

any instrument whatever, not a utensil. From nothing they must suppl \mathbf{y}

themselves with everything.

And yet, if Cyrus Harding had been with them, if the engineer could have

brought his practical science, his inventive mind to bear on their situation, perhaps all hope would not have been lost. Alas! they mus t hope

no longer again to see Cyrus Harding. The castaways could expect not hing

but from themselves and from that Providence which never abandons th ose

whose faith is sincere.

But ought they to establish themselves on this part of the coast, wi thout

trying to know to what continent it belonged, if it was inhabited, o ${\tt r}$ if

they were on the shore of a desert island?

It was an important question, and should be solved with the shortest

possible delay. From its answer they would know what measures to tak e.

However, according to Pencroft's advice, it appeared best to wait a few

days before commencing an exploration. They must, in fact, prepare some

provisions and procure more strengthening food than eggs and mollusc s. The

explorers, before undertaking new fatigues, must first of all recruit their strength.

The Chimneys offered a retreat sufficient for the present. The fire

was

lighted, and it was easy to preserve some embers. There were plenty of

shell-fish and eggs among the rocks and on the beach. It would be easy to

kill a few of the pigeons which were flying by hundreds about the su mmit of

the plateau, either with sticks or stones. Perhaps the trees of the neighboring forest would supply them with eatable fruit. Lastly, the sweet

water was there.

It was accordingly settled that for a few days they would remain at the

Chimneys so as to prepare themselves for an expedition, either along the

shore or into the interior of the country. This plan suited Neb particularly. As obstinate in his ideas as in his presentiments, he was in

no haste to abandon this part of the coast, the scene of the catastr ophe.

He did not, he would not believe in the loss of Cyrus Harding. No, i t did

not seem to him possible that such a man had ended in this vulgar fa shion,

carried away by a wave, drowned in the floods, a few hundred feet from a

shore. As long as the waves had not cast up the body of the engineer , as

long as he, Neb, had not seen with his eyes, touched with his hands the

corpse of his master, he would not believe in his death! And this id

rooted itself deeper than ever in his determined heart. An illusion perhaps, but still an illusion to be respected, and one which the sa ilor

did not wish to destroy. As for him, he hoped no longer, but there w as no

use in arguing with Neb. He was like the dog who will not leave the place

where his master is buried, and his grief was such that most probably he

would not survive him.

This same morning, the 26th of March, at daybreak, Neb had set out on the

shore in a northerly direction, and he had returned to the spot where the

sea, no doubt, had closed over the unfortunate Harding.

That day's breakfast was composed solely of pigeon's eggs and lithod omes.

Herbert had found some salt deposited by evaporation in the hollows of the

rocks, and this mineral was very welcome.

The repast ended, Pencroft asked the reporter if he wished to accomp any

Herbert and himself to the forest, where they were going to try to h unt.

But on consideration, it was thought necessary that someone should ${\bf r}$ emain

to keep in the fire, and to be at hand in the highly improbable even t of

Neb requiring aid. The reporter accordingly remained behind.

"To the chase, Herbert," said the sailor. "We shall find ammunition on

our way, and cut our weapons in the forest." But at the moment of st arting,

Herbert observed, that since they had no tinder, it would perhaps be prudent to replace it by another substance.

"What?" asked Pencroft.

"Burnt linen," replied the boy. "That could in case of need serve for tinder."

The sailor thought it very sensible advice. Only it had the inconven ience

of necessitating the sacrifice of a piece of handkerchief. Notwithst anding,

the thing was well worth while trying, and a part of Pencroft's larg e

checked handkerchief was soon reduced to the state of a half-burnt rag.

This inflammable material was placed in the central chamber at the ${\tt b}$ ottom

of a little cavity in the rock, sheltered from all wind and damp.

It was nine o'clock in the morning. The weather was threatening and the

breeze blew from the southeast. Herbert and Pencroft turned the angle of

the Chimneys, not without having cast a look at the smoke which, just at

that place, curled round a point of rock: they ascended the left ban \boldsymbol{k} of

the river.

Arrived at the forest, Pencroft broke from the first tree two stout branches which he transformed into clubs, the ends of which Herbert rubbed

smooth on a rock. Oh! what would they not have given for a knife!

The two hunters now advanced among the long grass, following the ban 1

From the turning which directed its course to the southwest, the riv er

narrowed gradually and the channel lay between high banks, over whic

h the

trees formed a double arch. Pencroft, lest they should lose themselv es,

resolved to follow the course of the stream, which would always lead them

back to the point from which they started. But the bank was not with out

some obstacles: here, the flexible branches of the trees bent level with

the current; there, creepers and thorns which they had to break down with

their sticks. Herbert often glided among the broken stumps with the agility

of a young cat, and disappeared in the underwood. But Pencroft calle d him

back directly, begging him not to wander away. Meanwhile, the sailor

attentively observed the disposition and nature of the surrounding country. On the left bank, the ground, which was flat and marshy, ro se

imperceptibly towards the interior. It looked there like a network of

liquid threads which doubtless reached the river by some underground drain.

Sometimes a stream ran through the underwood, which they crossed wit hout.

difficulty. The opposite shore appeared to be more uneven, and the \boldsymbol{v} alley

of which the river occupied the bottom was more clearly visible. The hill,

covered with trees disposed in terraces, intercepted the view. On the right

bank walking would have been difficult, for the declivities fell sud denly,

and the trees bending over the water were only sustained by the strength

of their roots.

It is needless to add that this forest, as well as the coast already

surveyed, was destitute of any sign of human life. Pencroft only saw traces

of quadrupeds, fresh footprints of animals, of which he could not recognize

the species. In all probability, and such was also Herbert's opinion , some

had been left by formidable wild beasts which doubtless would give them

some trouble; but nowhere did they observe the mark of an axe on the trees,

nor the ashes of a fire, nor the impression of a human foot. On this they

might probably congratulate themselves, for on any land in the middle of

the Pacific the presence of man was perhaps more to be feared than desired.

Herbert and Pencroft speaking little, for the difficulties of the way were

great, advanced very slowly, and after walking for an hour they had scarcely gone more than a mile. As yet the hunt had not been success ful.

However, some birds sang and fluttered in the foliage, and appeared very

timid, as if man had inspired them with an instinctive fear. Among o thers,

Herbert described, in a marshy part of the forest, a bird with a lon

pointed beak, closely resembling the king-fisher, but its plumage was not

fine, though of a metallic brilliancy.

"That must be a jacamar," said Herbert, trying to get nearer.

"This will be a good opportunity to taste jacamar," replied the sail or,

"if that fellow is in a humor to be roasted!"

Just then, a stone cleverly thrown by the boy, struck the creature on the

wing, but the blow did not disable it, and the jacamar ran off and disappeared in an instant.

"How clumsy I am!" cried Herbert.

"No, no, my boy!" replied the sailor. "The blow was well aimed; many

one would have missed it altogether! Come, don't be vexed with yours ${\sf elf.}\ {\sf We}$

shall catch it another day!"

As the hunters advanced, the trees were found to be more scattered, many

being magnificent, but none bore eatable fruit. Pencroft searched in vain

for some of those precious palm-trees which are employed in so many ways in

domestic life, and which have been found as far as the fortieth para llel in

the Northern Hemisphere, and to the thirty-fifth only in the Souther n

Hemisphere. But this forest was only composed of coniferae, such as deodaras, already recognized by Herbert, and Douglas pine, similar to those

which grow on the northwest coast of America, and splendid firs, measuring

a hundred and fifty feet in height.

At this moment a flock of birds, of a small size and pretty plumage, with

long glancing tails, dispersed themselves among the branches strewing their

feathers, which covered the ground as with fine down. Herbert picked

up a few of these feathers, and after having examined them, --

"These are couroucous," said he.

"I should prefer a moor-cock or guinea-fowl," replied Pencroft, "still,

if they are good to eat--"

"They are good to eat, and also their flesh is very delicate," replied

Herbert. "Besides, if I don't mistake, it is easy to approach and ki ll them

with a stick."

The sailor and the lad, creeping among the grass, arrived at the foot of

a tree, whose lower branches were covered with little birds. The couroucous

were waiting the passage of insects which served for their nourishme nt.

Their feathery feet could be seen clasping the slender twigs which supported them.

The hunters then rose, and using their sticks like scythes, they mow ed

down whole rows of these couroucous, who never thought of flying away, and

stupidly allowed themselves to be knocked off. A hundred were alread ${\bf y}$

heaped on the ground, before the others made up their minds to fly.

"Well," said Pencroft, "here is game, which is quite within the reach of

hunters like us. We have only to put out our hands and take it!"

The sailor having strung the couroucous like larks on flexible twigs

they then continued their exploration. The stream here made a bend towards

the south, but this detour was probably not prolonged for the river must.

have its source in the mountain, and be supplied by the melting of the snow

which covered the sides of the central cone.

The particular object of their expedition was, as has been said, to procure the greatest possible quantity of game for the inhabitants of the

Chimneys. It must be acknowledged that as yet this object had not be en

attained. So the sailor actively pursued his researches, though he exclaimed, when some animal which he had not even time to recognize fled

into the long grass, "If only we had had the dog Top!" But Top had disappeared at the same time as his master, and had probably perishe

d with him.

Towards three o'clock new flocks of birds were seen through certain trees, at whose aromatic berries they were pecking, those of the juniper-

tree among others. Suddenly a loud trumpet call resounded through the

forest. This strange and sonorous cry was produced by a game bird called

grouse in the United States. They soon saw several couples, whose plumage

was rich chestnut-brown mottled with dark brown, and tail of the sam e

color. Herbert recognized the males by the two wing-like appendages raised

on the neck. Pencroft determined to get hold of at least one of thes

gallinaceae, which were as large as a fowl, and whose flesh is bette ${\bf r}$ than

that of a pullet. But it was difficult, for they would not allow the mselves

to be approached. After several fruitless attempts, which resulted in

nothing but scaring the grouse, the sailor said to the lad, --

"Decidedly, since we can't kill them on the wing, we must try to tak e them with a line."

"Like a fish?" cried Herbert, much surprised at the proposal.

"Like a fish," replied the sailor quite seriously. Pencroft had foun d

among the grass half a dozen grouse nests, each having three or four eggs.

He took great care not to touch these nests, to which their propriet ors

would not fail to return. It was around these that he meant to stret ch his

lines, not snares, but real fishing-lines. He took Herbert to some distance

from the nests, and there prepared his singular apparatus with all the care

which a disciple of Izaak Walton would have used. Herbert watched the work

with great interest, though rather doubting its success. The lines were

made of fine creepers, fastened one to the other, of the length of f ifteen $\ensuremath{\mathsf{ift}}$

or twenty feet. Thick, strong thorns, the points bent back (which we re

supplied from a dwarf acacia bush) were fastened to the ends of the creepers, by way of hooks. Large red worms, which were crawling on the

ground, furnished bait.

This done, Pencroft, passing among the grass and concealing himself skillfully, placed the end of his lines armed with hooks near the grouse

nests; then he returned, took the other ends and hid with Herbert be hind a

large tree. There they both waited patiently; though, it must be sai d, that

Herbert did not reckon much on the success of the inventive Pencroft .

A whole half-hour passed, but then, as the sailor had surmised, seve ral

couple of grouse returned to their nests. They walked along, pecking the

ground, and not suspecting in any way the presence of the hunters, w ho,

besides, had taken care to place themselves to leeward of the gallin aceae.

The lad felt at this moment highly interested. He held his breath, a nd

Pencroft, his eyes staring, his mouth open, his lips advanced, as if about

to taste a piece of grouse, scarcely breathed.

Meanwhile, the birds walked about the hooks, without taking any notice of

them. Pencroft then gave little tugs which moved the bait as if the worms

had been still alive.

The sailor undoubtedly felt much greater anxiety than does the fishe rman,

for he does not see his prey coming through the water. The jerks att racted

the attention of the gallinaceae, and they attacked the hooks with their

beaks. Three voracious grouse swallowed at the same moment bait and hook.

Suddenly with a smart jerk, Pencroft "struck" his line, and a flapping of

wings showed that the birds were taken.

"Hurrah!" he cried, rushing towards the game, of which he made himse lf

master in an instant.

Herbert clapped his hands. It was the first time that he had ever se

birds taken with a line, but the sailor modestly confessed that it \boldsymbol{w} as not

his first attempt, and that besides he could not claim the merit of invention.

"And at any rate," added he, "situated as we are, we must hope to hi

t upon many other contrivances."

The grouse were fastened by their claws, and Pencroft, delighted at not having to appear before their companions with empty hands, and observing that the day had begun to decline, judged it best to return to their dwelling.

The direction was indicated by the river, whose course they had only to follow, and, towards six o'clock, tired enough with their excursion, Herbert and Pencroft arrived at the Chimneys.

Chapter 7

Gideon Spilett was standing motionless on the shore, his arms crosse d, gazing over the sea, the horizon of which was lost towards the east in a thick black cloud which was spreading rapidly towards the zenith. The wind was already strong, and increased with the decline of day. The whole sky was of a threatening aspect, and the first symptoms of a violent sto rm were clearly visible.

Herbert entered the Chimneys, and Pencroft went towards the reporter . The latter, deeply absorbed, did not see him approach.

"We are going to have a dirty night, Mr. Spilett!" said the sailor: "Petrels delight in wind and rain."

The reporter, turning at the moment, saw Pencroft, and his first wor ds were,--

"At what distance from the coast would you say the car was, when the waves carried off our companion?"

The sailor had not expected this question. He reflected an instant a nd replied,--

"Two cables lengths at the most."

"But what is a cable's length?" asked Gideon Spilett.

"About a hundred and twenty fathoms, or six hundred feet."

"Then," said the reporter, "Cyrus Harding must have disappeared twelve

hundred feet at the most from the shore?"

"About that," replied Pencroft.

"And his dog also?"

"Also."

"What astonishes me," rejoined the reporter, "while admitting that o ur companion has perished, is that Top has also met his death, and that

neither the body of the dog nor of his master has been cast on the s hore!"

"It is not astonishing, with such a heavy sea," replied the sailor.

"Besides, it is possible that currents have carried them farther dow n the coast."

"Then, it is your opinion that our friend has perished in the waves? "
again asked the reporter.

"That is my opinion."

"My own opinion," said Gideon Spilett, "with due deference to your experience, Pencroft, is that in the double fact of the absolute disappearance of Cyrus and Top, living or dead, there is something unaccountable and unlikely."

"I wish I could think like you, Mr. Spilett," replied Pencroft; "unhappily, my mind is made up on this point." Having said this, the sailor

returned to the Chimneys. A good fire crackled on the hearth. Herber t had

just thrown on an armful of dry wood, and the flame cast a bright light

into the darkest parts of the passage.

Pencroft immediately began to prepare the dinner. It appeared best to

introduce something solid into the bill of fare, for all needed to g et up

their strength. The strings of couroucous were kept for the next day , but

they plucked a couple of grouse, which were soon spitted on a stick, and

roasting before a blazing fire.

At seven in the evening Neb had not returned. The prolonged absence of

the Negro made Pencroft very uneasy. It was to be feared that he had

met

with an accident on this unknown land, or that the unhappy fellow had been

driven to some act of despair. But Herbert drew very different conclusions

from this absence. According to him, Neb's delay was caused by some new

circumstances which had induced him to prolong his search. Also, everything

new must be to the advantage of Cyrus Harding. Why had Neb not returned

unless hope still detained him? Perhaps he had found some mark, a fo otstep,

a trace which had put him in the right path. Perhaps he was at this moment

on a certain track. Perhaps even he was near his master.

Thus the lad reasoned. Thus he spoke. His companions let him talk. The

reporter alone approved with a gesture. But what Pencroft thought most

probable was, that Neb had pushed his researches on the shore farthe r than

the day before, and that he had not as yet had time to return.

Herbert, however, agitated by vague presentiments, several times manifested an intention to go to meet Neb. But Pencroft assured him that

that would be a useless course, that in the darkness and deplorable weather

he could not find any traces of Neb, and that it would be much bette ${\tt r}$ to

wait. If Neb had not made his appearance by the next day, Pencroft would

not hesitate to join him in his search.

Gideon Spilett approved of the sailor's opinion that it was best not to

divide, and Herbert was obliged to give up his project; but two larg e tears

fell from his eyes.

The reporter could not refrain from embracing the generous boy.

Bad weather now set in. A furious gale from the southeast passed over the

coast. The sea roared as it beat over the reef. Heavy rain was dashed by

the storm into particles like dust. Ragged masses of vapor drove along the

beach, on which the tormented shingles sounded as if poured out in c art-

loads, while the sand raised by the wind added as it were mineral du st to

that which was liquid, and rendered the united attack insupportable.

Between the river's mouth and the end of the cliff, eddies of wind w hirled

and gusts from this maelstrom lashed the water which ran through the

narrow valley. The smoke from the fireplace was also driven back through

the opening, filling the passages and rendering them uninhabitable.

Therefore, as the grouse were cooked, Pencroft let the fire die away, and

only preserved a few embers buried under the ashes.

At eight o'clock Neb had not appeared, but there was no doubt that the

frightful weather alone hindered his return, and that he must have taken

refuge in some cave, to await the end of the storm or at least the return

of day. As to going to meet him, or attempting to find him, it was impossible.

The game constituted the only dish at supper; the meat was excellent , and

Pencroft and Herbert, whose long excursion had rendered them very hungry,

devoured it with infinite satisfaction.

Their meal concluded, each retired to the corner in which he had res

the preceding night, and Herbert was not long in going to sleep near the

sailor, who had stretched himself beside the fireplace.

Outside, as the night advanced, the tempest also increased in streng th,

until it was equal to that which had carried the prisoners from Rich mond to

this land in the Pacific. The tempests which are frequent during the

seasons of the equinox, and which are so prolific in catastrophes, a re

above all terrible over this immense ocean, which opposes no obstacl e to

their fury. No description can give an idea of the terrific violence of

the gale as it beat upon the unprotected coast.

Happily the pile of rocks which formed the Chimneys was solid. It was

composed of enormous blocks of granite, a few of which, insecurely balanced, seemed to tremble on their foundations, and Pencroft could feel

rapid quiverings under his head as it rested on the rock. But he repeated

to himself, and rightly, that there was nothing to fear, and that their

retreat would not give way. However he heard the noise of stones tor n from

the summit of the plateau by the wind, falling down on to the beach. A few

even rolled on to the upper part of the Chimneys, or flew off in fragments

when they were projected perpendicularly. Twice the sailor rose and intrenched himself at the opening of the passage, so as to take a lo ok in

safety at the outside. But there was nothing to be feared from these

showers, which were not considerable, and he returned to his couch before

the fireplace, where the embers glowed beneath the ashes.

Notwithstanding the fury of the hurricane, the uproar of the tempest, the

thunder, and the tumult, Herbert slept profoundly. Sleep at last too \boldsymbol{k}

possession of Pencroft, whom a seafaring life had habituated to anything.

Gideon Spilett alone was kept awake by anxiety. He reproached himsel f with

not having accompanied Neb. It was evident that he had not abandoned all

hope. The presentiments which had troubled Herbert did not cease to agitate

him also. His thoughts were concentrated on Neb. Why had Neb not ret urned?

He tossed about on his sandy couch, scarcely giving a thought to the

struggle of the elements. Now and then, his eyes, heavy with fatigue

closed for an instant, but some sudden thought reopened them almost immediately.

Meanwhile the night advanced, and it was perhaps two hours from morn ing,

when Pencroft, then sound asleep, was vigorously shaken.

"What's the matter?" he cried, rousing himself, and collecting his i

with the promptitude usual to seamen.

The reporter was leaning over him, and saying, --

"Listen, Pencroft, listen!"

The sailor strained his ears, but could hear no noise beyond those caused

by the storm.

"It is the wind," said he.

"No," replied Gideon Spilett, listening again, "I thought I heard--"

"What?"

"The barking of a dog!"

"A dog!" cried Pencroft, springing up.

"Yes--barking--"

"It's not possible!" replied the sailor. "And besides, how, in the roaring of the storm--"

"Stop--listen--" said the reporter.

Pencroft listened more attentively, and really thought he heard, during a lull, distant barking.

"Well!" said the reporter, pressing the sailor's hand.

"Yes--yes!" replied Pencroft.

"It is Top! It is Top!" cried Herbert, who had just awoke; and all three

rushed towards the opening of the Chimneys. They had great difficult y in

getting out. The wind drove them back. But at last they succeeded, a nd

could only remain standing by leaning against the rocks. They looked about,

but could not speak. The darkness was intense. The sea, the sky, the land

were all mingled in one black mass. Not a speck of light was visible .

The reporter and his companions remained thus for a few minutes, overwhelmed by the wind, drenched by the rain, blinded by the sand.

Then, in a pause of the tumult, they again heard the barking, which they

found must be at some distance.

It could only be Top! But was he alone or accompanied? He was most probably alone, for, if Neb had been with him, he would have made his way

more directly towards the Chimneys. The sailor squeezed the reporter 's

hand, for he could not make himself heard, in a way which signified "Wait!"

then he reentered the passage.

An instant after he issued with a lighted fagot, which he threw into the darkness, whistling shrilly.

It appeared as if this signal had been waited for; the barking

immediately came nearer, and soon a dog bounded into the passage. Pencroft,

Herbert, and Spilett entered after him.

An armful of dry wood was thrown on the embers. The passage was lighted up with a bright flame.

"It is Top!" cried Herbert.

It was indeed Top, a magnificent Anglo-Norman, who derived from thes e two

races crossed the swiftness of foot and the acuteness of smell which are

the preeminent qualities of coursing dogs. It was the dog of the engineer,

Cyrus Harding. But he was alone! Neither Neb nor his master accompanied $\,$

him!

How was it that his instinct had guided him straight to the Chimneys

which he did not know? It appeared inexplicable, above all, in the ${\tt m}$ idst of

this black night and in such a tempest! But what was still more inexplicable was, that Top was neither tired, nor exhausted, nor even

soiled with mud or sand! -- Herbert had drawn him towards him, and was

patting his head, the dog rubbing his neck against the lad's hands.

"If the dog is found, the master will be found also!" said the reporter.

"God grant it!" responded Herbert. "Let us set off! Top will guide u s!"

Pencroft did not make any objection. He felt that Top's arrival contradicted his conjectures. "Come along then!" said he.

Pencroft carefully covered the embers on the hearth. He placed a few

pieces of wood among them, so as to keep in the fire until their ret urn.

Then, preceded by the dog, who seemed to invite them by short barks to come

with him, and followed by the reporter and the boy, he dashed out, a fter

having put up in his handkerchief the remains of the supper.

The storm was then in all its violence, and perhaps at its height. N ot a

single ray of light from the moon pierced through the clouds. To follow a

straight course was difficult. It was best to rely on Top's instinct . They

did so. The reporter and Herbert walked behind the dog, and the sail or

brought up the rear. It was impossible to exchange a word. The rain was not

very heavy, but the wind was terrific.

However, one circumstance favored the seaman and his two companions. The

wind being southeast, consequently blew on their backs. The clouds of sand,

which otherwise would have been insupportable, from being received behind,

did not in consequence impede their progress. In short, they sometim es went

faster than they liked, and had some difficulty in keeping their fee t; but

hope gave them strength, for it was not at random that they made the ir way

along the shore. They had no doubt that Neb had found his master, an ${\tt d}$ that

he had sent them the faithful dog. But was the engineer living, or h ad Neb

only sent for his companions that they might render the last duties to the

corpse of the unfortunate Harding?

After having passed the precipice, Herbert, the reporter, and Pencro ft

prudently stepped aside to stop and take breath. The turn of the rocks

sheltered them from the wind, and they could breathe after this walk or

rather run of a quarter of an hour.

They could now hear and reply to each other, and the lad having pronounced the name of Cyrus Harding, Top gave a few short barks, as much

as to say that his master was saved.

"Saved, isn't he?" repeated Herbert; "saved, Top?"

And the dog barked in reply.

They once more set out. The tide began to rise, and urged by the win d it

threatened to be unusually high, as it was a spring tide. Great bill ows

thundered against the reef with such violence that they probably pas sed

entirely over the islet, then quite invisible. The mole no longer protected

the coast, which was directly exposed to the attacks of the open sea

As soon as the sailor and his companions left the precipice, the win $\ensuremath{\mathtt{d}}$

struck them again with renewed fury. Though bent under the gale they walked

very quickly, following Top, who did not hesitate as to what direction to take.

They ascended towards the north, having on their left an interminable

extent of billows, which broke with a deafening noise, and on their right a

dark country, the aspect of which it was impossible to guess. But they felt

that it was comparatively flat, for the wind passed completely over them,

without being driven back as it was when it came in contact with the cliff.

At four o'clock in the morning, they reckoned that they had cleared about

five miles. The clouds were slightly raised, and the wind, though less

damp, was very sharp and cold. Insufficiently protected by their clothing,

Pencroft, Herbert and Spilett suffered cruelly, but not a complaint escaped

their lips. They were determined to follow Top, wherever the intelligent

animal wished to lead them.

Towards five o'clock day began to break. At the zenith, where the fog was

less thick, gray shades bordered the clouds; under an opaque belt, a

luminous line clearly traced the horizon. The crests of the billows were

tipped with a wild light, and the foam regained its whiteness. At the same

time on the left the hilly parts of the coast could be seen, though very

indistinctly.

At six o'clock day had broken. The clouds rapidly lifted. The seaman and

his companions were then about six miles from the Chimneys. They were

following a very flat shore bounded by a reef of rocks, whose heads scarcely emerged from the sea, for they were in deep water. On the l eft,

the country appeared to be one vast extent of sandy downs, bristling with

thistles. There was no cliff, and the shore offered no resistance to the

ocean but a chain of irregular hillocks. Here and there grew two or three

trees, inclined towards the west, their branches projecting in that direction. Quite behind, in the southwest, extended the border of th

e forest.

At this moment, Top became very excited. He ran forward, then return ed, and seemed to entreat them to hasten their steps. The dog then left the beach, and guided by his wonderful instinct, without showing the least hesitation, went straight in among the downs. They followed him. The

country appeared an absolute desert. Not a living creature was to be seen.

The downs, the extent of which was large, were composed of hillocks and

even of hills, very irregularly distributed. They resembled a Switze rland

modeled in sand, and only an amazing instinct could have possibly recognized the way.

Five minutes after having left the beach, the reporter and his two companions arrived at a sort of excavation, hollowed out at the back of a

high mound. There Top stopped, and gave a loud, clear bark. Spilett,

Herbert, and Pencroft dashed into the cave.

Neb was there, kneeling beside a body extended on a bed of grass.

The body was that of the engineer, Cyrus Harding.

Chapter 8

Neb did not move. Pencroft only uttered one word.

"Living?" he cried.

Neb did not reply. Spilett and the sailor turned pale. Herbert clasp ed

his hands, and remained motionless. The poor Negro, absorbed in his grief,

evidently had neither seen his companions nor heard the sailor speak

The reporter knelt down beside the motionless body, and placed his e ar to the engineer's chest, having first torn open his clothes.

A minute--an age!--passed, during which he endeavored to catch the faintest throb of the heart.

Neb had raised himself a little and gazed without seeing. Despair had completely changed his countenance. He could scarcely be recognized,

exhausted with fatigue, broken with grief. He believed his master was dead.

Gideon Spilett at last rose, after a long and attentive examination.

"He lives!" said he.

Pencroft knelt in his turn beside the engineer, he also heard a throbbing, and even felt a slight breath on his cheek.

Herbert at a word from the reporter ran out to look for water. He fo und,

a hundred feet off, a limpid stream, which seemed to have been greatly

increased by the rains, and which filtered through the sand; but not hing in

which to put the water, not even a shell among the downs. The lad was

obliged to content himself with dipping his handkerchief in the stre am, and

with it hastened back to the grotto.

Happily the wet handkerchief was enough for Gideon Spilett, who only wished to wet the engineer's lips. The cold water produced an almost immediate effect. His chest heaved and he seemed to try to speak.

"We will save him!" exclaimed the reporter.

At these words hope revived in Neb's heart. He undressed his master to

see if he was wounded, but not so much as a bruise was to be found, either

on the head, body, or limbs, which was surprising, as he must have been

dashed against the rocks; even the hands were uninjured, and it was difficult to explain how the engineer showed no traces of the effort s which

he must have made to get out of reach of the breakers.

But the explanation would come later. When Cyrus was able to speak h $\ensuremath{\text{e}}$

would say what had happened. For the present the question was, how t

recall him to life, and it appeared likely that rubbing would bring this

about; so they set to work with the sailor's jersey.

The engineer, revived by this rude shampooing, moved his arm slightly and

began to breathe more regularly. He was sinking from exhaustion, and certainly, had not the reporter and his companions arrived, it would

have

been all over with Cyrus Harding.

"You thought your master was dead, didn't you?" said the seaman to N eb.

"Yes! quite dead!" replied Neb, "and if Top had not found you, and brought you here, I should have buried my master, and then have lain down

on his grave to die!"

It had indeed been a narrow escape for Cyrus Harding!

Neb then recounted what had happened. The day before, after having left

the Chimneys at daybreak, he had ascended the coast in a northerly direction, and had reached that part of the shore which he had alrea dy visited.

There, without any hope he acknowledged, Neb had searched the beach,

among the rocks, on the sand, for the smallest trace to guide him . H

examined particularly that part of the beach which was not covered by the

high tide, for near the sea the water would have obliterated all mar $ks\,.\ \mbox{\it Neb}$

did not expect to find his master living. It was for a corpse that h e

searched, a corpse which he wished to bury with his own hands!

He sought long in vain. This desert coast appeared never to have been

visited by a human creature. The shells, those which the sea had not

reached, and which might be met with by millions above high-water mark,

were untouched. Not a shell was broken.

Neb then resolved to walk along the beach for some miles. It was possible

that the waves had carried the body to quite a distant point. When a corpse

floats a little distance from a low shore, it rarely happens that the tide

does not throw it up, sooner or later. This Neb knew, and he wished to see

his master again for the last time.

"I went along the coast for another two miles, carefully examining the

beach, both at high and low water, and I had despaired of finding an ything,

when yesterday, above five in the evening, I saw footprints on the s and."

"Footprints?" exclaimed Pencroft.

"Yes!" replied Neb.

"Did these footprints begin at the water's edge?" asked the reporter \cdot

"No," replied Neb, "only above high-water mark, for the others must have been washed out by the tide."

"Go on, Neb," said Spilett.

"I went half crazy when I saw these footprints. They were very clear and

went towards the downs. I followed them for a quarter of a mile, run ning,

but taking care not to destroy them. Five minutes after, as it was g etting

dark, I heard the barking of a dog. It was Top, and Top brought me h ere, to

my master!"

Neb ended his account by saying what had been his grief at finding the

inanimate body, in which he vainly sought for the least sign of life . Now

that he had found him dead he longed for him to be alive. All his efforts

were useless! Nothing remained to be done but to render the last dut ies to

the one whom he had loved so much! Neb then thought of his companion s.

They, no doubt, would wish to see the unfortunate man again. Top was there.

Could he not rely on the sagacity of the faithful animal? Neb severa l times

pronounced the name of the reporter, the one among his companions whoom $\ensuremath{\mathsf{Top}}$

knew best.

Then he pointed to the south, and the dog bounded off in the directi on

indicated to him.

We have heard how, guided by an instinct which might be looked upon almost as supernatural, Top had found them.

Neb's companions had listened with great attention to this account.

It was unaccountable to them how Cyrus Harding, after the efforts which

he must have made to escape from the waves by crossing the rocks, had not

received even a scratch. And what could not be explained either was

how the

engineer had managed to get to this cave in the downs, more than a $\ensuremath{\mathtt{m}}$ ile

from the shore.

"So, Neb," said the reporter, "it was not you who brought your master to this place."

"No, it was not I," replied the Negro.

"It's very clear that the captain came here by himself," said Pencro ft.

"It is clear in reality," observed Spilett, "but it is not credible!"

The explanation of this fact could only be produced from the enginee r's

own lips, and they must wait for that till speech returned. Rubbing had

re-established the circulation of the blood. Cyrus Harding moved his arm

again, then his head, and a few incomprehensible words escaped him.

Neb, who was bending over him, spoke, but the engineer did not appear to

hear, and his eyes remained closed. Life was only exhibited in him b \mathbf{y}

movement, his senses had not as yet been restored.

Pencroft much regretted not having either fire, or the means of procuring

it, for he had, unfortunately, forgotten to bring the burnt linen, w hich

would easily have ignited from the sparks produced by striking toget her two

flints. As to the engineer's pockets, they were entirely empty, exce pt that

of his waistcoat, which contained his watch. It was necessary to carry

Harding to the Chimneys, and that as soon as possible. This was the opinion of all.

Meanwhile, the care which was lavished on the engineer brought him back

to consciousness sooner than they could have expected. The water with which

they wetted his lips revived him gradually. Pencroft also thought of mixing

with the water some moisture from the titra's flesh which he had brought.

Herbert ran to the beach and returned with two large bivalve shells. The

sailor concocted something which he introduced between the lips of t

he

engineer, who eagerly drinking it opened his eyes.

Neb and the reporter were leaning over him.

"My master! my master!" cried Neb.

The engineer heard him. He recognized Neb and Spilett, then his other two companions, and his hand slightly pressed theirs.

A few words again escaped him, which showed what thoughts were, even

then, troubling his brain. This time he was understood. Undoubtedly they

were the same words he had before attempted to utter.

"Island or continent?" he murmured.

"Bother the continent," cried Pencroft hastily; "there is time enough to see about that, captain! we don't care for anything, provided you ar

living."

The engineer nodded faintly, and then appeared to sleep.

They respected this sleep, and the reporter began immediately to mak e

arrangements for transporting Harding to a more comfortable place. N eb,

Herbert, and Pencroft left the cave and directed their steps towards a high

mound crowned with a few distorted trees. On the way the sailor could not

help repeating, --

"Island or continent! To think of that, when at one's last gasp! What a man!"

Arrived at the summit of the mound, Pencroft and his two companions set

to work, with no other tools than their hands, to despoil of its principal

branches a rather sickly tree, a sort of marine fir; with these branches

they made a litter, on which, covered with grass and leaves, they could

carry the engineer.

This occupied them nearly forty minutes, and it was ten o'clock when they

returned to Cyrus Harding whom Spilett had not left.

The engineer was just awaking from the sleep, or rather from the

drowsiness, in which they had found him. The color was returning to his

cheeks, which till now had been as pale as death. He raised himself a

little, looked around him, and appeared to ask where he was.

"Can you listen to me without fatigue, Cyrus?" asked the reporter.

"Yes," replied the engineer.

"It's my opinion," said the sailor, "that Captain Harding will be ab le to

listen to you still better, if he will have some more grouse jelly,-for we

have grouse, captain," added he, presenting him with a little of this

jelly, to which he this time added some of the flesh.

Cyrus Harding ate a little of the grouse, and the rest was divided a mong

his companions, who found it but a meager breakfast, for they were suffering extremely from hunger.

"Well!" said the sailor, "there is plenty of food at the Chimneys, for

you must know, captain, that down there, in the south, we have a hou se,

with rooms, beds, and fireplace, and in the pantry, several dozen of birds,

which our Herbert calls couroucous. Your litter is ready, and as soo n as

you feel strong enough we will carry you home."

"Thanks, my friend," replied the engineer; "wait another hour or two, and

then we will set out. And now speak, Spilett."

The reporter then told him all that had occurred. He recounted all the

events with which Cyrus was unacquainted, the last fall of the ballo on, the

landing on this unknown land, which appeared a desert (whatever it w as,

whether island or continent), the discovery of the Chimneys, the search for

him, not forgetting of course Neb's devotion, the intelligence exhibited by

the faithful Top, as well as many other matters.

"But," asked Harding, in a still feeble voice, "you did not, then, p ick

me up on the beach?"

"No," replied the reporter.

"And did you not bring me to this cave?"

"At what distance is this cave from the sea?"

"About a mile," replied Pencroft; "and if you are astonished, captain, we

are not less surprised ourselves at seeing you in this place!"

"Indeed," said the engineer, who was recovering gradually, and who took

great interest in these details, "indeed it is very singular!"

"But," resumed the sailor, "can you tell us what happened after you were

carried off by the sea?"

Cyrus Harding considered. He knew very little. The wave had torn him from

the balloon net. He sank at first several fathoms. On returning to the

surface, in the half light, he felt a living creature struggling near him.

It was Top, who had sprung to his help. He saw nothing of the balloon.

which, lightened both of his weight and that of the dog, had darted away

like an arrow.

There he was, in the midst of the angry sea, at a distance which could

not be less than half a mile from the shore. He attempted to struggl $\ensuremath{\mathrm{e}}$

against the billows by swimming vigorously. Top held him up by his c lothes;

but a strong current seized him and drove him towards the north, and after

half an hour of exertion, he sank, dragging Top with him into the depths.

From that moment to the moment in which he recovered to find himself in the

arms of his friends he remembered nothing.

"However," remarked Pencroft, "you must have been thrown on to the beach,

and you must have had strength to walk here, since Neb found your footmarks!"

"Yes... of course replied the engineer, thoughtfully; "and you foun d no $\,$

traces of human beings on this coast?"

"Not a trace," replied the reporter; "besides, if by chance you had met

with some deliverer there, just in the nick of time, why should he h ave

abandoned you after having saved you from the waves?"

"You are right, my dear Spilett. Tell me, Neb," added the engineer, turning to his servant, "it was not you who... you can't have had a moment

of unconsciousness... during which no, that's absurd.... Do any of the $% \left\{ 1,2,...,n\right\}$

footsteps still remain?" asked Harding.

"Yes, master, replied Neb; "here, at the entrance, at the back of the mound, in a place sheltered from the rain and wind. The storm has destroyed

"Pencroft," said Cyrus Harding, "will you take my shoe and see if it fits exactly to the footprints?"

The sailor did as the engineer requested. While he and Herbert, guid ed by

Neb, went to the place where the footprints were to be found, Cyrus remarked to the reporter,--

"It is a most extraordinary thing!"

the others."

"Perfectly inexplicable!" replied Gideon Spilett.

"But do not dwell upon it just now, my dear Spilett, we will talk ab out it by-and-by."

A moment after the others entered.

There was no doubt about it. The engineer's shoe fitted exactly to the footmarks. It was therefore Cyrus Harding who had left them on the sand.

"Come," said he, "I must have experienced this unconsciousness which I attributed to Neb. I must have walked like a somnambulist, without a ny knowledge of my steps, and Top must have guided me here, after havin g dragged me from the waves... Come, Top! Come, old dog!"

The magnificent animal bounded barking to his master, and caresses were

lavished on him. It was agreed that there was no other way of accounting

for the rescue of Cyrus Harding, and that Top deserved all the honor of the affair.

Towards twelve o'clock, Pencroft having asked the engineer if they c

ould

now remove him, Harding, instead of replying, and by an effort which exhibited the most energetic will, got up. But he was obliged to lea n on the sailor, or he would have fallen.

"Well done!" cried Pencroft; "bring the captain's litter."

The litter was brought; the transverse branches had been covered with

leaves and long grass. Harding was laid on it, and Pencroft, having taken

his place at one end and Neb at the other, they started towards the coast.

There was a distance of eight miles to be accomplished; but, as they could

not go fast, and it would perhaps be necessary to stop frequently, they

reckoned that it would take at least six hours to reach the Chimneys . The

wind was still strong, but fortunately it did not rain. Although lying

down, the engineer, leaning on his elbow, observed the coast, particularly

inland. He did not speak, but he gazed; and, no doubt, the appearance of

the country, with its inequalities of ground, its forests, its various

productions, were impressed on his mind. However, after traveling for two

hours, fatigue overcame him, and he slept.

At half-past five the little band arrived at the precipice, and a sh ort

time after at the Chimneys.

They stopped, and the litter was placed on the sand; Cyrus Harding was sleeping profoundly, and did not awake.

Pencroft, to his extreme surprise, found that the terrible storm had

quite altered the aspect of the place. Important changes had occurre d;

great blocks of stone lay on the beach, which was also covered with a thick

carpet of sea-weed, algae, and wrack. Evidently the sea, passing over the

islet, had been carried right up to the foot of the enormous curtain of

granite. The soil in front of the cave had been torn away by the vio lence

of the waves. A horrid presentiment flashed across Pencroft's mind. He

rushed into the passage, but returned almost immediately, and stood

motionless, staring at his companions.... The fire was out; the drow ned

cinders were nothing but mud; the burnt linen, which was to have ser ved as

tinder, had disappeared! The sea had penetrated to the end of the passages,

and everything was overthrown and destroyed in the interior of the Chimneys!

Chapter 9

In a few words, Gideon Spilett, Herbert, and Neb were made acquainte d with

what had happened. This accident, which appeared so very serious to Pencroft, produced different effects on the companions of the honest

sailor.

Neb, in his delight at having found his master, did not listen, or rather, did not care to trouble himself with what Pencroft was saying.

Herbert shared in some degree the sailor's feelings.

As to the reporter, he simply replied, --

"Upon my word, Pencroft, it's perfectly indifferent to me!"

"But, I repeat, that we haven't any fire!"

"Pooh!"

"Nor any means of relighting it!"

"Nonsense!"

"But I say, Mr. Spilett--"

"Isn't Cyrus here?" replied the reporter.

"Is not our engineer alive? He will soon find some way of making fir e for us!"

"With what?"

"With nothing."

What had Pencroft to say? He could say nothing, for, in the bottom of his

heart he shared the confidence which his companions had in Cyrus Harding.

The engineer was to them a microcosm, a compound of every science, a

possessor of all human knowledge. It was better to be with Cyrus in

desert island, than without him in the most flourishing town in the United

States. With him they could want nothing; with him they would never despair. If these brave men had been told that a volcanic eruption would

destroy the land, that this land would be engulfed in the depths of the

Pacific, they would have imperturbably replied, --

"Cyrus is here!"

While in the palanquin, however, the engineer had again relapsed into

unconsciousness, which the jolting to which he had been subjected during

his journey had brought on, so that they could not now appeal to his

ingenuity. The supper must necessarily be very meager. In fact, all

grouse flesh had been consumed, and there no longer existed any mean s of

cooking more game. Besides, the couroucous which had been reserved h ad

disappeared. They must consider what was to be done.

First of all, Cyrus Harding was carried into the central passage. There

they managed to arrange for him a couch of sea-weed which still remained

almost dry. The deep sleep which had overpowered him would no doubt be more

beneficial to him than any nourishment.

Night had closed in, and the temperature, which had modified when the

wind shifted to the northwest, again became extremely cold. Also, the sea

having destroyed the partitions which Pencroft had put up in certain places

in the passages, the Chimneys, on account of the draughts, had become

scarcely habitable. The engineer's condition would, therefore, have been

bad enough, if his companions had not carefully covered him with the ir

coats and waistcoats.

Supper, this evening, was of course composed of the inevitable lithodomes, of which Herbert and Neb picked up a plentiful supply on the

beach. However, to these molluscs, the lad added some edible sea-wee d,

which he gathered on high rocks, whose sides were only washed by the sea at

the time of high tides. This sea-weed, which belongs to the order of

Fucacae, of the genus Sargassum, produces, when dry, a gelatinous matter.

rich and nutritious. The reporter and his companions, after having e aten a

quantity of lithodomes, sucked the sargassum, of which the taste was very

tolerable. It is used in parts of the East very considerably by the natives. "Never mind!" said the sailor, "the captain will help us so on."

Meanwhile the cold became very severe, and unhappily they had no means of

defending themselves from it.

The sailor, extremely vexed, tried in all sorts of ways to procure fire.

Neb helped him in this work. He found some dry moss, and by striking

together two pebbles he obtained some sparks, but the moss, not bein

inflammable enough, did not take fire, for the sparks were really on ly

incandescent, and not at all of the same consistency as those which are

emitted from flint when struck in the same manner. The experiment, therefore, did not succeed.

Pencroft, although he had no confidence in the proceeding, then trie d

rubbing two pieces of dry wood together, as savages do. Certainly, the

movement which he and Neb exhibited, if it had been transformed into heat,

according to the new theory, would have been enough to heat the boil er of a

steamer! It came to nothing. The bits of wood became hot, to be sure , but

much less so than the operators themselves.

After working an hour, Pencroft, who was in a complete state of perspiration, threw down the pieces of wood in disgust.

"I can never be made to believe that savages light their fires in th is

way, let them say what they will," he exclaimed. "I could sooner light my

arms by rubbing them against each other!"

The sailor was wrong to despise the proceeding. Savages often kindle wood

by means of rapid rubbing. But every sort of wood does not answer for the

purpose, and besides, there is "the knack," following the usual expression,

and it is probable that Pencroft had not "the knack."

Pencroft's ill humor did not last long. Herbert had taken the bits of

wood which he had turned down, and was exerting himself to rub them. The

hardy sailor could not restrain a burst of laughter on seeing the efforts

of the lad to succeed where he had failed.

"Rub, my boy, rub!" said he.

"I am rubbing," replied Herbert, laughing, "but I don't pretend to do anything else but warm myself instead of shivering, and soon I shall

hot as you are, my good Pencroft!"

This soon happened. However, they were obliged to give up, for this night

at least, the attempt to procure fire. Gideon Spilett repeated, for the

twentieth time, that Cyrus Harding would not have been troubled for so

small a difficulty. And, in the meantime, he stretched himself in on e of

the passages on his bed of sand. Herbert, Neb, and Pencroft did the same,

while Top slept at his master's feet.

Next day, the 28th of March, when the engineer awoke, about eight in the

morning, he saw his companions around him watching his sleep, and, a s on

the day before, his first words were:--

"Island or continent?" This was his uppermost thought.

"Well!" replied Pencroft, "we don't know anything about it, captain!

"You don't know yet?"

"But we shall know," rejoined Pencroft, "when you have guided us int o the country."

"I think I am able to try it," replied the engineer, who, without mu ch effort, rose and stood upright.

"That's capital!" cried the sailor.

"I feel dreadfully weak," replied Harding. "Give me something to eat, my

friends, and it will soon go off. You have fire, haven't you?"

This question was not immediately replied to. But, in a few seconds-

_

"Alas! we have no fire," said Pencroft, "or rather, captain, we have it no longer!"

And the sailor recounted all that had passed the day before. He amus ed

the engineer by the history of the single match, then his abortive a ttempt

to procure fire in the savages' way.

"We shall consider," replied the engineer, "and if we do not find so me substance similar to tinder--"

"Well?" asked the sailor.

"Well, we will make matches.

"Chemicals?"

"Chemicals!"

"It is not more difficult than that," cried the reporter, striking the sailor on the shoulder.

The latter did not think it so simple, but he did not protest. All w ent

out. The weather had become very fine. The sun was rising from the sea's

horizon, and touched with golden spangles the prismatic rugosities of the $% \left(1\right) =\left(1\right) +\left(1\right) +$

huge precipice.

Having thrown a rapid glance around him, the engineer seated himself on a block of stone. Herbert offered him a few handfuls of shell-fish and sargassum, saying,--

"It is all that we have, Captain Harding."

"Thanks, my boy," replied Harding; "it will do--for this morning at least."

He ate the wretched food with appetite, and washed it down with a little fresh water, drawn from the river in an immense shell.

His companions looked at him without speaking. Then, feeling somewhat refreshed, Cyrus Harding crossed his arms, and said,--

"So, my friends, you do not know yet whether fate has thrown us on a

n island, or on a continent?"

"No, captain," replied the boy.

"We shall know to-morrow," said the engineer; "till then, there is nothing to be done."

"Yes," replied Pencroft.

"What?"

"Fire," said the sailor, who, also, had a fixed idea.

"We will make it, Pencroft," replied Harding.

"While you were carrying me yesterday, did I not see in the west a mountain which commands the country?"

"Yes," replied Spilett, "a mountain which must be rather high--"

"Well," replied the engineer, "we will climb to the summit to-morrow, and

then we shall see if this land is an island or a continent. Till the n, I repeat, there is nothing to be done."

"Yes, fire!" said the obstinate sailor again.

"But he will make us a fire!" replied Gideon Spilett, "only have a little patience, Pencroft!"

The seaman looked at Spilett in a way which seemed to say, "If it depended upon you to do it, we wouldn't taste roast meat very soon"; but he was silent.

Meanwhile Captain Harding had made no reply. He appeared to be very little troubled by the question of fire. For a few minutes he remain ed

absorbed in thought; then again speaking, --

"My friends," said he, "our situation is, perhaps, deplorable; but, at

any rate, it is very plain. Either we are on a continent, and then, at the

expense of greater or less fatigue, we shall reach some inhabited place, or

we are on an island. In the latter case, if the island is inhabited, we

will try to get out of the scrape with the help of its inhabitants; if it

is desert, we will try to get out of the scrape by ourselves."

"Certainly, nothing could be plainer," replied Pencroft.

"But, whether it is an island or a continent," asked Gideon Spilett,
"whereabouts do you think, Cyrus, this storm has thrown us?"

"I cannot say exactly," replied the engineer, "but I presume it is some

land in the Pacific. In fact, when we left Richmond, the wind was blowing

from the northeast, and its very violence greatly proves that it could not

have varied. If the direction has been maintained from the northeast to the

southwest, we have traversed the States of North Carolina, of South Carolina, of Georgia, the Gulf of Mexico, Mexico, itself, in its nar row

part, then a part of the Pacific Ocean. I cannot estimate the distance

traversed by the balloon at less than six to seven thousand miles, a nd,

even supposing that the wind had varied half a quarter, it must have

brought us either to the archipelago of Mendava, either on the Pomot ous, or

even, if it had a greater strength than I suppose, to the land of Ne \mbox{w}

Zealand. If the last hypothesis is correct, it will be easy enough to get

home again. English or Maoris, we shall always find some one to whom we can

speak. If, on the contrary, this is the coast of a desert island in some

tiny archipelago, perhaps we shall be able to reconnoiter it from the

summit of that peak which overlooks the country, and then we shall see how

best to establish ourselves here as if we are never to go away."

"Never?" cried the reporter. "You say 'Never,' my dear Cyrus?"

"Better to put things at the worst at first," replied the engineer, "and

reserve the best for a surprise."

"Well said," remarked Pencroft. "It is to be hoped, too, that this island, if it be one, is not situated just out of the course of ship s; that

would be really unlucky!"

"We shall not know what we have to rely on until we have first made the ascent of the mountain," replied the engineer.

"But to-morrow, captain," asked Herbert, "shall you be in a state to bear the fatigue of the ascent?"

"I hope so," replied the engineer, "provided you and Pencroft, my bo y, show yourselves guick and clever hunters."

"Captain," said the sailor, "since you are speaking of game, if on m Y return, I was as certain of roasting it as I am of bringing it back-

"Bring it back all the same, Pencroft," replied Harding.

It was then agreed that the engineer and the reporter were to pass the

day at the Chimneys, so as to examine the shore and the upper platea u. Neb,

Herbert, and the sailor were to return to the forest, renew their st ore of

wood, and lay violent hands on every creature, feathered or hairy, $\ensuremath{\mathbf{w}}$ hich

might come within their reach.

They set out accordingly about ten o'clock in the morning, Herbert confident, Neb joyous, Pencroft murmuring aside,--

 $\mbox{\tt "If, on my return, I find a fire at the house, I shall believe that the }$

thunder itself came to light it." All three climbed the bank; and ar rived

at the angle made by the river, the sailor, stopping, said to his two companions,--

"Shall we begin by being hunters or wood-men?"

"Hunters," replied Herbert. "There is Top already in quest."

"We will hunt, then," said the sailor, "and afterwards we can come back

and collect our wood."

This agreed to, Herbert, Neb, and Pencroft, after having torn three sticks from the trunk of a young fir, followed Top, who was bounding about among the long grass.

This time, the hunters, instead of following the course of the river,

plunged straight into the heart of the forest. There were still the same

trees, belonging, for the most part, to the pine family. In certain places,

less crowded, growing in clumps, these pines exhibited considerable dimensions, and appeared to indicate, by their development, that the

country was situated in a higher latitude than the engineer had supp

osed.

Glades, bristling with stumps worn away by time, were covered with dry

wood, which formed an inexhaustible store of fuel. Then, the glade p assed,

the underwood thickened again, and became almost impenetrable.

It was difficult enough to find the way among the groups of trees, w ithout

any beaten track. So the sailor from time to time broke off branches which

might be easily recognized. But, perhaps, he was wrong not to follow the

watercourse, as he and Herbert had done on their first excursion, for after

walking an hour not a creature had shown itself. Top, running under the

branches, only roused birds which could not be approached. Even the couroucous were invisible, and it was probable that the sailor would be

obliged to return to the marshy part of the forest, in which he had so

happily performed his grouse fishing.

"Well, Pencroft," said Neb, in a slightly sarcastic tone, "if this is all

the game which you promised to bring back to my master, it won't nee d a

large fire to roast it!"

"Have patience," replied the sailor, "it isn't the game which will be wanting on our return."

"Have you not confidence in Captain Harding?"

"Yes."

"But you don't believe that he will make fire?"

"I shall believe it when the wood is blazing in the fireplace."

"It will blaze, since my master has said so."

"We shall see!"

Meanwhile, the sun had not reached the highest point in its course a bove

the horizon. The exploration, therefore, continued, and was usefully

marked by a discovery which Herbert made of a tree whose fruit was e dible.

This was the stone-pine, which produces an excellent almond, very much

esteemed in the temperate regions of America and Europe. These almon ds were

in a perfect state of maturity, and Herbert described them to his companions, who feasted on them.

"Come," said Pencroft, "sea-weed by way of bread, raw mussels for me at,

and almonds for dessert, that's certainly a good dinner for those who have

not a single match in their pocket!"

We mustn't complain, " said Herbert.

"I am not complaining, my boy," replied Pencroft, "only I repeat, th at

meat is a little too much economized in this sort of meal."

"Top has found something!" cried Neb, who ran towards a thicket, in the

midst of which the dog had disappeared, barking. With Top's barking were

mingled curious gruntings.

The sailor and Herbert had followed Neb. If there was game there this was

not the time to discuss how it was to be cooked, but rather, how the y were

to get hold of it.

The hunters had scarcely entered the bushes when they saw Top engage d in

a struggle with an animal which he was holding by the ear. This quad ruped

was a sort of pig nearly two feet and a half long, of a blackish brown

color, lighter below, having hard scanty hair; its toes, then strong ly

fixed in the ground, seemed to be united by a membrane. Herbert recognized

in this animal the capybara, that is to say, one of the largest members of

the rodent order.

Meanwhile, the capybara did not struggle against the dog. It stupidly

rolled its eyes, deeply buried in a thick bed of fat. Perhaps it saw men

for the first time.

However, Neb having tightened his grasp on his stick, was just going to

fell the pig, when the latter, tearing itself from Top's teeth, by w hich it

was only held by the tip of its ear, uttered a vigorous grunt, rushe d upon

Herbert, almost overthrew him, and disappeared in the wood.

[&]quot;The rascal!" cried Pencroft.

All three directly darted after Top, but at the moment when they joi ned

him the animal had disappeared under the waters of a large pond shad ed by

venerable pines.

Neb, Herbert, and Pencroft stopped, motionless. Top plunged into the water, but the capybara, hidden at the bottom of the pond, did not a ppear.

"Let us wait," said the boy, "for he will soon come to the surface to breathe."

"Won't he drown?" asked Neb.

"No," replied Herbert, "since he has webbed feet, and is almost an amphibious animal. But watch him."

Top remained in the water. Pencroft and his two companions went to different parts of the bank, so as to cut off the retreat of the cap ybara,

which the dog was looking for beneath the water.

Herbert was not mistaken. In a few minutes the animal appeared on the

surface of the water. Top was upon it in a bound, and kept it from plunging

again. An instant later the capybara, dragged to the bank, was kille d by a

blow from Neb's stick.

"Hurrah!" cried Pencroft, who was always ready with this cry of triu mph.

"Give me but a good fire, and this pig shall be gnawed to the bones!

Pencroft hoisted the capybara on his shoulders, and judging by the height

of the sun that it was about two o'clock, he gave the signal to return.

Top's instinct was useful to the hunters, who, thanks to the intelligent

animal, were enabled to discover the road by which they had come. Half an

hour later they arrived at the river.

Pencroft soon made a raft of wood, as he had done before, though if there

was no fire it would be a useless task, and the raft following the current,

they returned towards the Chimneys.

But the sailor had not gone fifty paces when he stopped, and again uttering a tremendous hurrah, pointed towards the angle of the cliff, --

"Herbert! Neb! Look!" he shouted.

Smoke was escaping and curling up among the rocks.

Chapter 10

In a few minutes the three hunters were before a crackling fire. The

captain and the reporter were there. Pencroft looked from one to the other,

his capybara in his hand, without saying a word.

"Well, yes, my brave fellow," cried the reporter.

"Fire, real fire, which will roast this splendid pig perfectly, and we

will have a feast presently!"

"But who lighted it?" asked Pencroft.

"The sun!"

Gideon Spilett was quite right in his reply. It was the sun which had

furnished the heat which so astonished Pencroft. The sailor could sc arcely

believe his eyes, and he was so amazed that he did not think of questioning

the engineer.

"Had you a burning-glass, sir?" asked Herbert of Harding.

"No, my boy, " replied he, "but I made one."

And he showed the apparatus which served for a burning-glass. It was

simply two glasses which he had taken from his own and the reporter's

watches. Having filled them with water and rendered their edges adhe sive by

means of a little clay, he thus fabricated a regular burning-glass, which,

concentrating the solar rays on some very dry moss, soon caused it to

blaze.

The sailor considered the apparatus; then he gazed at the engineer without saying a word, only a look plainly expressed his opinion that if

Cyrus Harding was not a magician, he was certainly no ordinary man.

At last

speech returned to him, and he cried, --

"Note that, Mr. Spilett, note that down on your paper!"

"It is noted," replied the reporter.

Then, Neb helping him, the seaman arranged the spit, and the capybar a,

properly cleaned, was soon roasting like a suckling-pig before a cle ar,

crackling fire.

The Chimneys had again become more habitable, not only because the passages were warmed by the fire, but because the partitions of wood and

mud had been re-established.

It was evident that the engineer and his companions had employed the ir

day well. Cyrus Harding had almost entirely recovered his strength, and had

proved it by climbing to the upper plateau. From this point his eye,

accustomed to estimate heights and distances, was fixed for a long time on

the cone, the summit of which he wished to reach the next day. The mountain, situated about six miles to the northwest, appeared to him to

measure 3,500 feet above the level of the sea. Consequently the gaze of an

observer posted on its summit would extend over a radius of at least fifty

miles. Therefore it was probable that Harding could easily solve the

question of "island or continent," to which he attached so much importance.

They supped capitally. The flesh of the capybara was declared excell ent.

The sargassum and the almonds of the stone-pine completed the repast

during which the engineer spoke little. He was preoccupied with projects

for the next day.

Once or twice Pencroft gave forth some ideas upon what it would be b

to do; but Cyrus Harding, who was evidently of a methodical mind, on ly

shook his head without uttering a word.

"To-morrow," he repeated, "we shall know what we have to depend upon , and

we will act accordingly."

The meal ended, fresh armfuls of wood were thrown on the fire, and the

inhabitants of the Chimneys, including the faithful Top, were soon buried

in a deep sleep.

No incident disturbed this peaceful night, and the next day, the 29th of

March, fresh and active they awoke, ready to undertake the excursion which

must determine their fate.

All was ready for the start. The remains of the capybara would be en ough

to sustain Harding and his companions for at least twenty-four hours .

Besides, they hoped to find more food on the way. As the glasses had been

returned to the watches of the engineer and reporter, Pencroft burne d a

little linen to serve as tinder. As to flint, that would not be want ing in

these regions of Plutonic origin. It was half-past seven in the morn ing

when the explorers, armed with sticks, left the Chimneys. Following Pencroft's advice, it appeared best to take the road already travers ed

through the forest, and to return by another route. It was also the most

direct way to reach the mountain. They turned the south angle and fo llowed

the left bank of the river, which was abandoned at the point where i

formed an elbow towards the southwest. The path, already trodden und er the

evergreen trees, was found, and at nine o'clock Cyrus Harding and his

companions had reached the western border of the forest. The ground, till

then, very little undulated, boggy at first, dry and sandy afterward s, had

a gentle slope, which ascended from the shore towards the interior of the

country. A few very timid animals were seen under the forest-trees. Top

quickly started them, but his master soon called him back, for the time had

not come to commence hunting; that would be attended to later. The engineer

was not a man who would allow himself to be diverted from his fixed idea.

It might even have been said that he did not observe the country at all,

either in its configuration or in its natural productions, his great aim

being to climb the mountain before him, and therefore straight towar ds it

he went. At ten o'clock a halt of a few minutes was made. On leaving the

forest, the mountain system of the country appeared before the explorers.

The mountain was composed of two cones; the first, truncated at a he ight of

about two thousand five hundred feet, was sustained by buttresses, w hich

appeared to branch out like the talons of an immense claw set on the

ground. Between these were narrow valleys, bristling with trees, the last

clumps of which rose to the top of the lowest cone. There appeared to be

less vegetation on that side of the mountain which was exposed to the

northeast, and deep fissures could be seen which, no doubt, were watercourses.

On the first cone rested a second, slightly rounded, and placed a little

on one side, like a great round hat cocked over the ear. A Scotchman would

have said, "His bonnet was a thocht ajee." It appeared formed of bar e earth, here and there pierced by reddish rocks.

They wished to reach the second cone, and proceeding along the ridge of $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

the spurs seemed to be the best way by which to gain it.

"We are on volcanic ground," Cyrus Harding had said, and his companions

following him began to ascend by degrees on the back of a spur, which,, by a

winding and consequently more accessible path, joined the first plat eau.

The ground had evidently been convulsed by subterranean force. Here and

there stray blocks, numerous debris of basalt and pumice-stone, were met

with. In isolated groups rose fir-trees, which, some hundred feet lower, at

the bottom of the narrow gorges, formed massive shades almost impene trable

to the sun's rays.

During the first part of the ascent, Herbert remarked on the footprints

which indicated the recent passage of large animals.

"Perhaps these beasts will not let us pass by willingly," said Pencr oft.

"Well," replied the reporter, who had already hunted the tiger in In dia,

and the lion in Africa, "we shall soon learn how successfully to encounter

them. But in the meantime we must be upon our guard!"

They ascended but slowly.

The distance, increased by detours and obstacles which could not be surmounted directly, was long. Sometimes, too, the ground suddenly fell,

and they found themselves on the edge of a deep chasm which they had to go

round. Thus, in retracing their steps so as to find some practicable path,

much time was employed and fatigue undergone for nothing. At twelve o'clock, when the small band of adventurers halted for breakfast at the

foot of a large group of firs, near a little stream which fell in ca scades,

they found themselves still half way from the first plateau, which most

probably they would not reach till nightfall. From this point the view of

the sea was much extended, but on the right the high promontory prevented

their seeing whether there was land beyond it. On the left, the sigh t

extended several miles to the north; but, on the northwest, at the point

occupied by the explorers, it was cut short by the ridge of a fantastically-shaped spur, which formed a powerful support of the central cone.

At one o'clock the ascent was continued. They slanted more towards the

southwest and again entered among thick bushes. There under the shade of

the trees fluttered several couples of gallinaceae belonging to the pheasant species. They were tragopans, ornamented by a pendant skin which

hangs over their throats, and by two small, round horns, planted behind the

eyes. Among these birds, which were about the size of a fowl, the fe male

was uniformly brown, while the male was gorgeous in his red plumage,

decorated with white spots. Gideon Spilett, with a stone cleverly an d

vigorously thrown, killed one of these tragopans, on which Pencroft, made

hungry by the fresh air, had cast greedy eyes.

After leaving the region of bushes, the party, assisted by resting o

n

each other's shoulders, climbed for about a hundred feet up a steep acclivity and reached a level place, with very few trees, where the soil

appeared volcanic. It was necessary to ascend by zigzags to make the slope

more easy, for it was very steep, and the footing being exceedingly precarious required the greatest caution. Neb and Herbert took the lead,

Pencroft the rear, the captain and the reporter between them. The an imals

which frequented these heights--and there were numerous traces of them--

must necessarily belong to those races of sure foot and supple spine

chamois or goat. Several were seen, but this was not the name Pencro ft gave

them, for all of a sudden--"Sheep!" he shouted.

All stopped about fifty feet from half-a-dozen animals of a large si ze,

with strong horns bent back and flattened towards the point, with a woolly

fleece, hidden under long silky hair of a tawny color.

They were not ordinary sheep, but a species usually found in the mountainous regions of the temperate zone, to which Herbert gave the name

of the musmon.

"Have they legs and chops?" asked the sailor.

"Yes," replied Herbert.

"Well, then, they are sheep!" said Pencroft.

The animals, motionless among the blocks of basalt, gazed with an astonished eye, as if they saw human bipeds for the first time. Then their

fears suddenly aroused, they disappeared, bounding over the rocks.

"Good-bye, till we meet again," cried Pencroft, as he watched them, in

such a comical tone that Cyrus Harding, Gideon Spilett, Herbert, and Neb

could not help laughing.

The ascent was continued. Here and there were traces of lava. Sulphu $\ensuremath{\mathbf{r}}$

springs sometimes stopped their way, and they had to go round them. In some

places the sulphur had formed crystals among other substances, such as

whitish cinders made of an infinity of little feldspar crystals.

In approaching the first plateau formed by the truncating of the low

er

cone, the difficulties of the ascent were very great. Towards four o 'clock

the extreme zone of the trees had been passed. There only remained h ere and

there a few twisted, stunted pines, which must have had a hard life in

resisting at this altitude the high winds from the open sea. Happily for

the engineer and his companions the weather was beautiful, the atmos phere

tranquil; for a high breeze at an elevation of three thousand feet would

have hindered their proceedings. The purity of the sky at the zenith was

felt through the transparent air. A perfect calm reigned around them . They

could not see the sun, then hid by the vast screen of the upper cone, which

masked the half-horizon of the west, and whose enormous shadow stret ching

to the shore increased as the radiant luminary sank in its diurnal course.

Vapor--mist rather than clouds--began to appear in the east, and ass ume all

the prismatic colors under the influence of the solar rays.

Five hundred feet only separated the explorers from the plateau, which

they wished to reach so as to establish there an encampment for the night,

but these five hundred feet were increased to more than two miles by

zigzags which they had to describe. The soil, as it were, slid under their

feet.

The slope often presented such an angle that they slipped when the stones

worn by the air did not give a sufficient support. Evening came on by

degrees, and it was almost night when Cyrus Harding and his companions,

much fatigued by an ascent of seven hours, arrived at the plateau of the

first cone. It was then necessary to prepare an encampment, and to restore

their strength by eating first and sleeping afterwards. This second stage

of the mountain rose on a base of rocks, among which it would be eas y to

find a retreat. Fuel was not abundant. However, a fire could be made by

means of the moss and dry brushwood, which covered certain parts of the

plateau. While the sailor was preparing his hearth with stones which

he put

to this use, Neb and Herbert occupied themselves with getting a supp ly of

fuel. They soon returned with a load of brushwood. The steel was struck,

the burnt linen caught the sparks of flint, and, under Neb's breath, a

crackling fire showed itself in a few minutes under the shelter of the

rocks. Their object in lighting a fire was only to enable them to withstand

the cold temperature of the night, as it was not employed in cooking the

bird, which Neb kept for the next day. The remains of the capybara a nd some

dozens of the stone-pine almonds formed their supper. It was not hal f-past

six when all was finished.

Cyrus Harding then thought of exploring in the half-light the large circular layer which supported the upper cone of the mountain. Before

taking any rest, he wished to know if it was possible to get round the base

of the cone in the case of its sides being too steep and its summit being

inaccessible. This question preoccupied him, for it was possible that from

the way the hat inclined, that is to say, towards the north, the plateau

was not practicable. Also, if the summit of the mountain could not be

reached on one side, and if, on the other, they could not get round the

base of the cone, it would be impossible to survey the western part of the

country, and their object in making the ascent would in part be alto gether

unattained.

The engineer, accordingly, regardless of fatigue, leaving Pencroft and

Neb to arrange the beds, and Gideon Spilett to note the incidents of the

day, began to follow the edge of the plateau, going towards the nort h.

Herbert accompanied him.

The night was beautiful and still, the darkness was not yet deep. Cy rus

Harding and the boy walked near each other, without speaking. In som e

places the plateau opened before them, and they passed without hindr ance.

In others, obstructed by rocks, there was only a narrow path, in which two

persons could not walk abreast. After a walk of twenty minutes, Cyru s

Harding and Herbert were obliged to stop. From this point the slope of the

two cones became one. No shoulder here separated the two parts of the

mountain. The slope, being inclined almost seventy degrees, the path became

impracticable.

But if the engineer and the boy were obliged to give up thoughts of following a circular direction, in return an opportunity was given for

ascending the cone.

In fact, before them opened a deep hollow. It was the rugged mouth o f the

crater, by which the eruptive liquid matter had escaped at the periods when

the volcano was still in activity. Hardened lava and crusted scoria formed

a sort of natural staircase of large steps, which would greatly facilitate

the ascent to the summit of the mountain.

Harding took all this in at a glance, and without hesitating, follow ed by

the lad, he entered the enormous chasm in the midst of an increasing obscurity.

There was still a height of a thousand feet to overcome. Would the interior acclivities of the crater be practicable? It would soon be seen.

The persevering engineer resolved to continue his ascent until he was

stopped. Happily these acclivities wound up the interior of the volc ano and

favored their ascent.

As to the volcano itself, it could not be doubted that it was comple tely

extinct. No smoke escaped from its sides; not a flame could be seen in the

dark hollows; not a roar, not a mutter, no trembling even issued fro m this

black well, which perhaps reached far into the bowels of the earth.

atmosphere inside the crater was filled with no sulphurous vapor. It was

more than the sleep of a volcano; it was its complete extinction. Cy rus

Harding's attempt would succeed.

Little by little, Herbert and he climbing up the sides of the interior,

saw the crater widen above their heads. The radius of this circular portion

of the sky, framed by the edge of the cone, increased obviously. At each

step, as it were, that the explorers made, fresh stars entered the field of

their vision. The magnificent constellations of the southern sky sho ne

resplendently. At the zenith glittered the splendid Antares in the Scorpion, and not far was Alpha Centauri, which is believed to be the

nearest star to the terrestrial globe. Then, as the crater widened, appeared Fomalhaut of the Fish, the Southern Triangle, and lastly, nearly

at the Antarctic Pole, the glittering Southern Cross, which replaces the

Polar Star of the Northern Hemisphere.

It was nearly eight o'clock when Cyrus Harding and Herbert set foot on

the highest ridge of the mountain at the summit of the cone.

It was then perfectly dark, and their gaze could not extend over a radius

of two miles. Did the sea surround this unknown land, or was it connected

in the west with some continent of the Pacific? It could not yet be made

out. Towards the west, a cloudy belt, clearly visible at the horizon

increased the gloom, and the eye could not discover if the sky and \boldsymbol{w} ater

were blended together in the same circular line.

But at one point of the horizon a vague light suddenly appeared, which

descended slowly in proportion as the cloud mounted to the zenith.

It was the slender crescent moon, already almost disappearing; but its

light was sufficient to show clearly the horizontal line, then detached

from the cloud, and the engineer could see its reflection trembling for an

instant on a liquid surface. Cyrus Harding seized the lad's hand, an d in a $\dot{}$

grave voice, --

"An island!" said he, at the moment when the lunar crescent disappeared beneath the waves.

Chapter 11

Half an hour later Cyrus Harding and Herbert had returned to the

encampment. The engineer merely told his companions that the land up on

which fate had thrown them was an island, and that the next day they would

consult. Then each settled himself as well as he could to sleep, and in

that rocky hole, at a height of two thousand five hundred feet above the

level of the sea, through a peaceful night, the islanders enjoyed profound repose.

The next day, the 30th of March, after a hasty breakfast, which consisted

solely of the roasted tragopan, the engineer wished to climb again to the

summit of the volcano, so as more attentively to survey the island upon

which he and his companions were imprisoned for life perhaps, should the

island be situated at a great distance from any land, or if it was out of

the course of vessels which visited the archipelagoes of the Pacific Ocean.

This time his companions followed him in the new exploration. They a lso

wished to see the island, on the productions of which they must depend for

the supply of all their wants.

It was about seven o'clock in the morning when Cyrus Harding, Herber †

Pencroft, Gideon Spilett, and Neb quitted the encampment. No one appeared

to be anxious about their situation. They had faith in themselves, doubtless, but it must be observed that the basis of this faith was not the

same with Harding as with his companions. The engineer had confidence,

because he felt capable of extorting from this wild country everything

necessary for the life of himself and his companions; the latter feared

nothing, just because Cyrus Harding was with them. Pencroft especial ly,

since the incident of the relighted fire, would not have despaired for an

instant, even if he was on a bare rock, if the engineer was with him on the rock.

"Pshaw," said he, "we left Richmond without permission from the authorities! It will be hard if we don't manage to get away some day or

other from a place where certainly no one will detain us!"

Cyrus Harding followed the same road as the evening before. They wen t

round the cone by the plateau which formed the shoulder, to the mout h of

the enormous chasm. The weather was magnificent. The sun rose in a pure sky

and flooded with his rays all the eastern side of the mountain.

The crater was reached. It was just what the engineer had made it ou t to

be in the dark; that is to say, a vast funnel which extended, widening, to

a height of a thousand feet above the plateau. Below the chasm, larg e thick

streaks of lava wound over the sides of the mountain, and thus marked the

course of the eruptive matter to the lower valleys which furrowed the ϵ

northern part of the island.

The interior of the crater, whose inclination did not exceed thirty five

to forty degrees, presented no difficulties nor obstacles to the asc ent.

Traces of very ancient lava were noticed, which probably had overflowed the

summit of the cone, before this lateral chasm had opened a new way to it.

As to the volcanic chimney which established a communication between the

subterranean layers and the crater, its depth could not be calculate ${\tt d}$ with

the eye, for it was lost in obscurity. But there was no doubt as to the

complete extinction of the volcano.

Before eight o'clock Harding and his companions were assembled at the

summit of the crater, on a conical mound which swelled the northern edge.

"The sea, the sea everywhere!" they cried, as if their lips could no t restrain the words which made islanders of them.

The sea, indeed, formed an immense circular sheet of water all aroun d

them! Perhaps, on climbing again to the summit of the cone, Cyrus Harding

had had a hope of discovering some coast, some island shore, which he had

not been able to perceive in the dark the evening before. But nothin

appeared on the farthest verge of the horizon, that is to say over a radius

of more than fifty miles. No land in sight. Not a sail. Over all this

immense space the ocean alone was visible--the island occupied the center

of a circumference which appeared to be infinite.

The engineer and his companions, mute and motionless, surveyed for some

minutes every point of the ocean, examining it to its most extreme limits.

Even Pencroft, who possessed a marvelous power of sight, saw nothing; and

certainly if there had been land at the horizon, if it appeared only as an

indistinct vapor, the sailor would undoubtedly have found it out, for $\ensuremath{\mathbf{r}}$

nature had placed regular telescopes under his eyebrows.

From the ocean their gaze returned to the island which they commande d entirely, and the first question was put by Gideon Spilett in these terms:

"About what size is this island?"

Truly, it did not appear large in the midst of the immense ocean.

Cyrus Harding reflected a few minutes; he attentively observed the perimeter of the island, taking into consideration the height at whi ch he

was placed; then, --

"My friends," said he, "I do not think I am mistaken in giving to the shore of the island a circumference of more than a hundred miles."

"And consequently an area?"

"That is difficult to estimate," replied the engineer, "for it is so uneven."

If Cyrus Harding was not mistaken in his calculation, the island had

almost the extent of Malta or Zante, in the Mediterranean, but it was at

the same time much more irregular and less rich in capes, promontories,

points, bays, or creeks. Its strange form caught the eye, and when G ideon

Spilett, on the engineer's advice, had drawn the outline, they found that

it resembled some fantastic animal, a monstrous leviathan, which lay sleeping on the surface of the Pacific.

This was in fact the exact shape of the island, which it is of consequence to know, and a tolerably correct map of it was immediate ly

drawn by the reporter.

The east part of the shore, where the castaways had landed, formed a wide

bay, terminated by a sharp cape, which had been concealed by a high point

from Pencroft on his first exploration. At the northeast two other capes

closed the bay, and between them ran a narrow gulf, which looked like the

half-open jaws of a formidable dog-fish.

From the northeast to the southwest the coast was rounded, like the flattened cranium of an animal, rising again, forming a sort of protuberance which did not give any particular shape to this part of the

island, of which the center was occupied by the volcano.

From this point the shore ran pretty regularly north and south, brok en at

two-thirds of its perimeter by a narrow creek, from which it ended in a

long tail, similar to the caudal appendage of a gigantic alligator.

This tail formed a regular peninsula, which stretched more than thir ty

miles into the sea, reckoning from the cape southeast of the island,

already mentioned; it curled round, making an open roadstead, which marked

out the lower shore of this strangely-formed land.

At the narrowest part, that is to say between the Chimneys and the creek

on the western shore, which corresponded to it in latitude, the isla nd only

measured ten miles; but its greatest length, from the jaws at the no

to the extremity of the tail of the southwest, was not less than thi

miles.

As to the interior of the island, its general aspect was this, very woody

throughout the southern part from the mountain to the shore, and ari d and

sandy in the northern part. Between the volcano and the east coast C vrus

Harding and his companions were surprised to see a lake, bordered wi

green trees, the existence of which they had not suspected. Seen fro $\ensuremath{\mathtt{m}}$ this

height, the lake appeared to be on the same level as the ocean, but,

on

reflection, the engineer explained to his companions that the altitu de of

this little sheet of water must be about three hundred feet, because the

plateau, which was its basin, was but a prolongation of the coast.

"Is it a freshwater lake?" asked Pencroft.

"Certainly," replied the engineer, "for it must be fed by the water which

flows from the mountain."

"I see a little river which runs into it," said Herbert, pointing ou t a

narrow stream, which evidently took its source somewhere in the west \cdot

"Yes," said Harding; "and since this stream feeds the lake, most probably

on the side near the sea there is an outlet by which the surplus wat

escapes. We shall see that on our return."

This little winding watercourse and the river already mentioned constituted the water-system, at least such as it was displayed to the eyes

of the explorers. However, it was possible that under the masses of trees

which covered two-thirds of the island, forming an immense forest, o ther

rivers ran towards the sea. It might even be inferred that such was the

case, so rich did this region appear in the most magnificent specime ns of

the flora of the temperate zones. There was no indication of running water

in the north, though perhaps there might be stagnant water among the

marshes in the northeast; but that was all, in addition to the downs , sand,

and aridity which contrasted so strongly with the luxuriant vegetati on of

the rest of the island.

The volcano did not occupy the central part; it rose, on the contrar y, in

the northwestern region, and seemed to mark the boundary of the two

At the southwest, at the south, and the southeast, the first part of the

spurs were hidden under masses of verdure. At the north, on the cont rary,

one could follow their ramifications, which died away on the sandy plains.

It was on this side that, at the time when the mountain was in a sta

te of

eruption, the discharge had worn away a passage, and a large heap of lava

had spread to the narrow jaw which formed the northeastern gulf.

Cyrus Harding and his companions remained an hour at the top of the mountain. The island was displayed under their eyes, like a plan in relief

with different tints, green for the forests, yellow for the sand, blue for

the water. They viewed it in its tout-ensemble, nothing remained con cealed

but the ground hidden by verdure, the hollows of the valleys, and the

interior of the volcanic chasms.

One important question remained to be solved, and the answer would \boldsymbol{h} ave a

great effect upon the future of the castaways.

Was the island inhabited?

It was the reporter who put this question, to which after the close examination they had just made, the answer seemed to be in the negative.

Nowhere could the work of a human hand be perceived. Not a group of huts,

not a solitary cabin, not a fishery on the shore. No smoke curling in the

air betrayed the presence of man. It is true, a distance of nearly thirty

miles separated the observers from the extreme points, that is, of the tail

which extended to the southwest, and it would have been difficult, e ven to

Pencroft's eyes, to discover a habitation there. Neither could the curtain

of verdure, which covered three-quarters of the island, be raised to see if

it did not shelter some straggling village. But in general the islan ders

live on the shores of the narrow spaces which emerge above the water s of

the Pacific, and this shore appeared to be an absolute desert.

Until a more complete exploration, it might be admitted that the isl and

was uninhabited. But was it frequented, at least occasionally, by the

natives of neighboring islands? It was difficult to reply to this qu estion.

No land appeared within a radius of fifty miles. But fifty miles could be

easily crossed, either by Malay proas or by the large Polynesian can oes.

Everything depended on the position of the island, of its isolation in the

Pacific, or of its proximity to archipelagoes. Would Cyrus Harding be able

to find out their latitude and longitude without instruments? It would be

difficult. Since he was in doubt, it was best to take precautions against a

possible descent of neighboring natives.

The exploration of the island was finished, its shape determined, its

features made out, its extent calculated, the water and mountain sys tems

ascertained. The disposition of the forests and plains had been mark ed in a

general way on the reporter's plan. They had now only to descend the

mountain slopes again, and explore the soil, in the triple point of view,

of its mineral, vegetable, and animal resources.

But before giving his companions the signal for departure, Cyrus Har ding

said to them in a calm, grave voice, --

Here, my friends, is the small corner of land upon which the hand of the

Almighty has thrown us. We are going to live here; a long time, perh aps.

Perhaps, too, unexpected help will arrive, if some ship passes by ch ance. I

say by chance, because this is an unimportant island; there is not e ven a

port in which ships could anchor, and it is to be feared that it is situated out of the route usually followed, that is to say, too much to the

south for the ships which frequent the archipelagoes of the Pacific,

too much to the north for those which go to Australia by doubling Ca pe

Horn. I wish to hide nothing of our position from you--"

"And you are right, my dear Cyrus," replied the reporter, with anima tion.

"You have to deal with men. They have confidence in you, and you can depend

upon them. Is it not so, my friends?"

"I will obey you in everything, captain," said Herbert, seizing the engineer's hand.

"My master always, and everywhere!" cried Neb.

Jack Pencroft, and if you like, captain, we will make a little Ameri ca of

this island! We will build towns, we will establish railways, start telegraphs, and one fine day, when it is quite changed, quite put in order

and quite civilized, we will go and offer it to the government of the Union. Only, I ask one thing."

"What is that?" said the reporter.

"It is, that we do not consider ourselves castaways, but colonists, who

have come here to settle." Harding could not help smiling, and the sailor's

idea was adopted. He then thanked his companions, and added, that he would

rely on their energy and on the aid of Heaven.

"Well, now let us set off to the Chimneys!" cried Pencroft.

"One minute, my friends," said the engineer. "It seems to me it would be

a good thing to give a name to this island, as well as to, the capes, promontories, and watercourses, which we can see.

"Very good," said the reporter. "In the future, that will simplify the instructions which we shall have to give and follow."

"Indeed," said the sailor, "already it is something to be able to sa y where one is going, and where one has come from. At least, it looks like somewhere."

"The Chimneys, for example," said Herbert.

"Exactly!" replied Pencroft. "That name was the most convenient, and it came to me quite of myself. Shall we keep the name of the Chimneys for our

first encampment, captain?"

"Yes, Pencroft, since you have so christened it."

"Good! as for the others, that will be easy," returned the sailor, w

was in high spirits. "Let us give them names, as the Robinsons did, whose

story Herbert has often read to me; Providence Bay, Whale Point, Cap

Disappointment!"

"Or, rather, the names of Captain Harding," said Herbert, "of Mr.

Spilett, of Neb!--"

- "My name!" cried Neb, showing his sparkling white teeth.
- "Why not?" replied Pencroft. "Port Neb, that would do very well! And Cape Gideon--"
- "I should prefer borrowing names from our country," said the reporte r,
- "which would remind us of America."
- "Yes, for the principal ones," then said Cyrus Harding; "for those of the
- bays and seas, I admit it willingly. We might give to that vast bay on the
- east the name of Union Bay, for example; to that large hollow on the south,
- Washington Bay; to the mountain upon which we are standing, that of Mount
- Franklin; to that lake which is extended under our eyes, that of Lak e
- Grant; nothing could be better, my friends. These names will recall our
- country, and those of the great citizens who have honored it; but for the
- rivers, gulfs, capes, and promontories, which we perceive from the top of
- this mountain, rather let us choose names which will recall their particular shape. They will impress themselves better on our memory, and at
- the same time will be more practical. The shape of the island is so strange
- that we shall not be troubled to imagine what it resembles. As to the
- streams which we do not know as yet, in different parts of the fores t which
- we shall explore later, the creeks which afterwards will he discover ed, we
- can christen them as we find them. What do you think, my friends?"
- The engineer's proposal was unanimously agreed to by his companions. The
- island was spread out under their eyes like a map, and they had only to
- give names to all its angles and points. Gideon Spilett would write them
- down, and the geographical nomenclature of the island would be definitely
- adopted. First, they named the two bays and the mountain, Union Bay,
- Washington Bay, and Mount Franklin, as the engineer had suggested.
- "Now," said the reporter, "to this peninsula at the southwest of the island, I propose to give the name of Serpentine Peninsula, and that

of
Reptile-end to the bent tail which terminates it, for it is just lik
e a
reptile's tail."

"Adopted," said the engineer.

Gulf."

"Now," said Herbert, pointing to the other extremity of the island, "let us call this gulf which is so singularly like a pair of open jaws, S hark

"Capital!" cried Pencroft, "and we can complete the resemblance by n aming the two parts of the jaws Mandible Cape."

"But there are two capes," observed the reporter.

"Well," replied Pencroft, "we can have North Mandible Cape and South Mandible Cape."

"They are inscribed," said Spilett.

"There is only the point at the southeastern extremity of the island to be named," said Pencroft.

"That is, the extremity of Union Bay?" asked Herbert.

"Claw Cape," cried Neb directly, who also wished to be godfather to some part of his domain.

In truth, Neb had found an excellent name, for this cape was very like the powerful claw of the fantastic animal which this singularly-shaped island represented.

Pencroft was delighted at the turn things had taken, and their imaginations soon gave to the river which furnished the settlers with

drinking water and near which the balloon had thrown them, the name of the

Mercy, in true gratitude to Providence. To the islet upon which the castaways had first landed, the name of Safety Island; to the platea u which

crowned the high granite precipice above the Chimneys, and from when ce the

gaze could embrace the whole of the vast bay, the name of Prospect H eights.

Lastly, all the masses of impenetrable wood which covered the Serpen tine

Peninsula were named the forests of the Far West.

The nomenclature of the visible and known parts of the island was thus

finished, and later, they would complete it as they made fresh disco veries.

As to the points of the compass, the engineer had roughly fixed them by

the height and position of the sun, which placed Union Bay and Prospect

Heights to the east. But the next day, by taking the exact hour of the

rising and setting of the sun, and by marking its position between this

rising and setting, he reckoned to fix the north of the island exact ly,

for, in consequence of its situation in the Southern Hemisphere, the sun,

at the precise moment of its culmination, passed in the north and no t in

the south, as, in its apparent movement, it seems to do, to those places

situated in the Northern Hemisphere.

Everything was finished, and the settlers had only to descend Mount Franklin to return to the Chimneys, when Pencroft cried out,--

"Well! we are preciously stupid!"

"Why?" asked Gideon Spilett, who had closed his notebook and risen to depart.

"Why! our island! we have forgotten to christen it!"

Herbert was going to propose to give it the engineer's name and all his companions would have applauded him, when Cyrus Harding said simply,

"Let us give it the name of a great citizen, my friend; of him who now struggles to defend the unity of the American Republic! Let us call

struggles to defend the unity of the American Republic! Let us call it

Lincoln Island!"

The engineer's proposal was replied to by three hurrahs.

And that evening, before sleeping, the new colonists talked of their

absent country; they spoke of the terrible war which stained it with blood;

they could not doubt that the South would soon be subdued, and that the

cause of the North, the cause of justice, would triumph, thanks to G

rant, thanks to Lincoln!

Now this happened the 30th of March, 1865. They little knew that six teen

days afterwards a frightful crime would be committed in Washington, and

that on Good Friday Abraham Lincoln would fall by the hand of a fana tic.

Chapter 12

They now began the descent of the mountain. Climbing down the crater , they

went round the cone and reached their encampment of the previous night.

Pencroft thought it must be breakfast-time, and the watches of the reporter

and engineer were therefore consulted to find out the hour.

That of Gideon Spilett had been preserved from the sea-water, as he had

been thrown at once on the sand out of reach of the waves. It was an

instrument of excellent quality, a perfect pocket chronometer, which the

reporter had not forgotten to wind up carefully every day.

As to the engineer's watch, it, of course, had stopped during the time which he had passed on the downs.

The engineer now wound it up, and ascertaining by the height of the sun

that it must be about nine o'clock in the morning, he put his watch at that hour.

"No, my dear Spilett, wait. You have kept the Richmond time, have yo u not?"

"Yes, Cyrus."

"Consequently, your watch is set by the meridian of that town, which is almost that of Washington?"

"Undoubtedly."

"Very well, keep it thus. Content yourself with winding it up very, exactly, but do not touch the hands. This may be of use to us.

"What will be the good of that?" thought the sailor.

They ate, and so heartily, that the store of game and almonds was to tally

exhausted. But Pencroft was not at all uneasy, they would supply the mselves

on the way. Top, whose share had been very much to his taste, would know

how to find some fresh game among the brushwood. Moreover, the sailo

thought of simply asking the engineer to manufacture some powder and one or

two fowling-pieces; he supposed there would be no difficulty in that

On leaving the plateau, the captain proposed to his companions to return

to the Chimneys by a new way. He wished to reconnoiter Lake Grant, s

magnificently framed in trees. They therefore followed the crest of one of

the spurs, between which the creek that supplied the lake probably h ad its

source. In talking, the settlers already employed the names which they had

just chosen, which singularly facilitated the exchange of their idea s.

Herbert and Pencroft--the one young and the other very boyish--were enchanted, and while walking, the sailor said,

"Hey, Herbert! how capital it sounds! It will be impossible to lose ourselves, my boy, since, whether we follow the way to Lake Grant, or

whether we join the Mercy through the woods of the Far West, we shall be

certain to arrive at Prospect Heights, and, consequently, at Union B ay!"

It had been agreed, that without forming a compact band, the settler \mathbf{s}

should not stray away from each other. It was very certain that the thick

forests of the island were inhabited by dangerous animals, and it was

prudent to be on their guard. In general, Pencroft, Herbert, and Neb walked

first, preceded by Top, who poked his nose into every bush. The reporter

and the engineer went together, Gideon Spilett ready to note every incident, the engineer silent for the most part, and only stepping a side to

pick up one thing or another, a mineral or vegetable substance, which he

put into his pocket, without making any remark.

"What can he be picking up?" muttered Pencroft. "I have looked in va in

for anything that's worth the trouble of stooping for."

Towards ten o'clock the little band descended the last declivities of

Mount Franklin. As yet the ground was scantily strewn with bushes an d

trees. They were walking over yellowish calcinated earth, forming a plain

of nearly a mile long, which extended to the edge of the wood. Great blocks

of that basalt, which, according to Bischof, takes three hundred and fifty

millions of years to cool, strewed the plain, very confused in some places.

However, there were here no traces of lava, which was spread more particularly over the northern slopes.

Cyrus Harding expected to reach, without incident, the course of the

creek, which he supposed flowed under the trees at the border of the plain,

when he saw Herbert running hastily back, while Neb and the sailor were

hiding behind the rocks.

"What's the matter, my boy?" asked Spilett.

"Smoke," replied Herbert. "We have seen smoke among the rocks, a hun dred paces from us."

"Men in this place?" cried the reporter.

"We must avoid showing ourselves before knowing with whom we have to

deal," replied Cyrus Harding. "I trust that there are no natives on this

island; I dread them more than anything else. Where is Top?"

"Top is on before."

"And he doesn't bark?"

"No."

"That is strange. However, we must try to call him back."

In a few moments, the engineer, Gideon Spilett, and Herbert had rejoined

their two companions, and like them, they kept out of sight behind the

heaps of basalt.

From thence they clearly saw smoke of a yellowish color rising in the air.

Top was recalled by a slight whistle from his master, and the latter

signing to his companions to wait for him, glided away among the roc $\ensuremath{\mathsf{ks}}$. The

colonists, motionless, anxiously awaited the result of this explorat ion,

when a shout from the engineer made them hasten forward. They soon joined

him, and were at once struck with a disagreeable odor which impregnated the atmosphere.

The odor, easily recognized, was enough for the engineer to guess wh at

the smoke was which at first, not without cause, had startled him.

"This fue," said he, "or rather, this smoke is produced by nature al one.

There is a sulphur spring there, which will cure all our sore throat s."

"Captain!" cried Pencroft. "What a pity that I haven't got a cold!"

The settlers then directed their steps towards the place from which the

smoke escaped. They there saw a sulphur spring which flowed abundant ly

between the rocks, and its waters discharged a strong sulphuric acid odor,

after having absorbed the oxygen of the air.

Cyrus Harding, dipping in his hand, felt the water oily to the touch . He

tasted it and found it rather sweet. As to its temperature, that he estimated at ninety-five degrees Fahrenheit. Herbert having asked on what

he based this calculation, --

"Its quite simple, my boy," said he, "for, in plunging my hand into the

water, I felt no sensation either of heat or cold. Therefore it has the

same temperature as the human body, which is about ninety-five degre es."

The sulphur spring not being of any actual use to the settlers, they

proceeded towards the thick border of the forest, which began some h undred paces off.

There, as they had conjectured, the waters of the stream flowed clear and

limpid between high banks of red earth, the color of which betrayed the

presence of oxide of iron. From this color, the name of Red Creek wa

immediately given to the watercourse.

It was only a large stream, deep and clear, formed of the mountain water,

which, half river, half torrent, here rippling peacefully over the s and,

there falling against the rocks or dashing down in a cascade, ran to wards

the lake, over a distance of a mile and a half, its breadth varying from

thirty to forty feet. Its waters were sweet, and it was supposed that those

of the lake were so also. A fortunate circumstance, in the event of their

finding on its borders a more suitable dwelling than the Chimneys.

As to the trees, which some hundred feet downwards shaded the banks of

the creek, they belonged, for the most part, to the species which abound in

the temperate zone of America and Tasmania, and no longer to those coniferae observed in that portion of the island already explored to some

miles from Prospect Heights. At this time of the year, the commencem ent of

the month of April, which represents the month of October, in this hemisphere, that is, the beginning of autumn, they were still in ful leaf.

They consisted principally of casuarinas and eucalypti, some of which next

year would yield a sweet manna, similar to the manna of the East. Cl umps of

Australian cedars rose on the sloping banks, which were also covered with

the high grass called "tussac" in New Holland; but the cocoanut, so abundant in the archipelagoes of the Pacific, seemed to be wanting in the

island, the latitude, doubtless, being too low.

"What a pity!" said Herbert, "such a useful tree, and which has such beautiful nuts!"

As to the birds, they swarmed among the scanty branches of the eucal ypti

and casuarinas, which did not hinder the display of their wings. Black,

white, or gray cockatoos, paroquets, with plumage of all colors, kingfishers of a sparkling green and crowned with red, blue lories, and

various other birds appeared on all sides, as through a prism, flutt ering

about and producing a deafening clamor. Suddenly, a strange concert of

discordant voices resounded in the midst of a thicket. The settlers

heard

successively the song of birds, the cry of quadrupeds, and a sort of

clacking which they might have believed to have escaped from the lip s of a

native. Neb and Herbert rushed towards the bush, forgetting even the most

elementary principles of prudence. Happily, they found there, neither a

formidable wild beast nor a dangerous native, but merely half a doze n

mocking and singing birds, known as mountain pheasants. A few skillf

blows from a stick soon put an end to their concert, and procured ex cellent

food for the evening's dinner.

Herbert also discovered some magnificent pigeons with bronzed wings, some

superbly crested, others draped in green, like their congeners at Port-

Macquarie; but it was impossible to reach them, or the crows and mag pies

which flew away in flocks.

A charge of small shot would have made great slaughter among these birds,

but the hunters were still limited to sticks and stones, and these primitive weapons proved very insufficient.

Their insufficiency was still more clearly shown when a troop of quadrupeds, jumping, bounding, making leaps of thirty feet, regular flying

mammiferae, fled over the thickets, so quickly and at such a height, that

one would have thought that they passed from one tree to another like squirrels.

"Kangaroos!" cried Herbert.

"Are they good to eat?" asked Pencroft.

"Stewed," replied the reporter, "their flesh is equal to the best venison!--"

Gideon Spilett had not finished this exciting sentence when the sail or,

followed by Neb and Herbert, darted on the kangaroos tracks. Cyrus H arding

called them back in vain. But it was in vain too for the hunters to pursue

such agile game, which went bounding away like balls. After a chase of five

minutes, they lost their breath, and at the same time all sight of the

creatures, which disappeared in the wood. Top was not more successful than his masters.

"Captain," said Pencroft, when the engineer and the reporter had rejoined

them, "Captain, you see quite well we can't get on unless we make a few

guns. Will that be possible?"

"Perhaps," replied the engineer, "but we will begin by first manufacturing some bows and arrows, and I don't doubt that you will become

as clever in the use of them as the Australian hunters."

"Bows and arrows!" said Pencroft scornfully. "That's all very well for children!"

"Don't be proud, friend Pencroft," replied the reporter. "Bows and a rrows

were sufficient for centuries to stain the earth with blood. Powder is but

a thing of yesterday, and war is as old as the human race--unhappily ."

"Faith, that's true, Mr. Spilett," replied the sailor, "and I always speak too quickly. You must excuse me!"

Meanwhile, Herbert constant to his favorite science, Natural History, reverted to the kangaroos, saying, --

"Besides, we had to deal just now with the species which is most difficult to catch. They were giants with long gray fur; but if I am not

mistaken, there exist black and red kangaroos, rock kangaroos, and r at

kangaroos, which are more easy to get hold of. It is reckoned that there

are about a dozen species."

"Herbert," replied the sailor sententiously, "there is only one species

of kangaroos to me, that is 'kangaroo on the spit,' and it's just the one $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{$

we haven't got this evening!"

They could not help laughing at Master Pencroft's new classification . The

honest sailor did not hide his regret at being reduced for dinner to the

singing pheasants, but fortune once more showed itself obliging to him.

In fact, Top, who felt that his interest was concerned went and ferr eted

everywhere with an instinct doubled by a ferocious appetite. It was even

probable that if some piece of game did fall into his clutches, none would

be left for the hunters, if Top was hunting on his own account; but Neb

watched him and he did well.

Towards three o'clock the dog disappeared in the brushwood and gruntings

showed that he was engaged in a struggle with some animal. Neb rushed after

him, and soon saw Top eagerly devouring a quadruped, which ten secon ds

later would have been past recognizing in Top's stomach. But fortuna tely

the dog had fallen upon a brood, and besides the victim he was devouring,

two other rodents--the animals in question belonged to that order--l ay

strangled on the turf.

Neb reappeared triumphantly holding one of the rodents in each hand. Their

size exceeded that of a rabbit, their hair was yellow, mingled with green

spots, and they had the merest rudiments of tails.

The citizens of the Union were at no loss for the right name of thes

rodents. They were maras, a sort of agouti, a little larger than the ir

congeners of tropical countries, regular American rabbits, with long ears,

jaws armed on each side with five molars, which distinguish the agou

"Hurrah!" cried Pencroft, "the roast has arrived! and now we can go home."

The walk, interrupted for an instant, was resumed. The limpid waters of

the Red Creek flowed under an arch of casuannas, banksias, and gigan tic

gum-trees. Superb lilacs rose to a height of twenty feet. Other arbo rescent

species, unknown to the young naturalist, bent over the stream, which could

be heard murmuring beneath the bowers of verdure.

Meanwhile the stream grew much wider, and Cyrus Harding supposed that

they would soon reach its mouth. In fact, on emerging from beneath a thick

clump of beautiful trees, it suddenly appeared before their eyes.

The explorers had arrived on the western shore of Lake Grant. The place

was well worth looking at. This extent of water, of a circumference of

nearly seven miles and an area of two hundred and fifty acres, reposed in a

border of diversified trees. Towards the east, through a curtain of verdure, picturesquely raised in some places, sparkled an horizon of sea.

The lake was curved at the north, which contrasted with the sharp ou tline

of its lower part. Numerous aquatic birds frequented the shores of this

little Ontario, in which the thousand isles of its American namesake were

represented by a rock which emerged from its surface, some hundred f

from the southern shore. There lived in harmony several couples of kingfishers perched on a stone, grave, motionless, watching for fish . then

darting down, they plunged in with a sharp cry, and reappeared with their

prey in their beaks. On the shores and on the islets, strutted wild ducks,

pelicans, water-hens, red-beaks, philedons, furnished with a tongue like a

brush, and one or two specimens of the splendid menura, the tail of which

expands gracefully like a lyre.

As to the water of the lake, it was sweet, limpid, rather dark, and from

certain bubblings, and the concentric circles which crossed each oth er on

the surface, it could not be doubted that it abounded in fish.

"This lake is really beautiful!" said Gideon Spilett. "We could live on

its borders!"

"We will live there!" replied Harding.

The settlers, wishing to return to the Chimneys by the shortest way,

descended towards the angle formed on the south by the junction of the

lake's bank. It was not without difficulty that they broke a path th rough

the thickets and brushwood which had never been put aside by the han d of

mm, and they thus went towards the shore, so as to arrive at the nor th of

Prospect Heights. Two miles were cleared in this direction, and then , after

they had passed the last curtain of trees, appeared the plateau, car peted

with thick turf, and beyond that the infinite sea.

To return to the Chimneys, it was enough to cross the plateau obliquely

for the space of a mile, and then to descend to the elbow formed by

first detour of the Mercy. But the engineer desired to know how and where

the overplus of the water from the lake escaped, and the exploration was

prolonged under the trees for a mile and a half towards the north. I t was

most probable that an overfall existed somewhere, and doubtless through a

cleft in the granite. This lake was only, in short, an immense center

basin, which was filled by degrees by the creek, and its waters must

necessarily pass to the sea by some fall. If it was so, the engineer

thought that it might perhaps be possible to utilize this fall and b orrow

its power, actually lost without profit to any one. They continued then to

follow the shores of Lake Grant by climbing the plateau; but, after having

gone a mile in this direction, Cyrus Harding had not been able to di scover

the overfall, which, however, must exist somewhere.

It was then half-past four. In order to prepare for dinner it was necessary that the settlers should return to their dwelling. The lit tle

band retraced their steps, therefore, and by the left bank of the Mercy,

Cyrus Harding and his companions arrived at the Chimneys.

The fire was lighted, and Neb and Pencroft, on whom the functions of

cooks naturally devolved, to the one in his quality of Negro, to the other

in that of sailor, quickly prepared some broiled agouti, to which they did

great justice.

The repast at length terminated; at the moment when each one was about to

give himself up to sleep, Cyrus Harding drew from his pocket little specimens of different sorts of minerals, and just said,--

"My friends, this is iron mineral, this a pyrite, this is clay, this is lime, and this is coal. Nature gives us these things. It is our

business to make a right use of them. To-morrow we will commence

operations."

Chapter 13

"Well, captain, where are we going to begin?" asked Pencroft next mo rning of the engineer.

"At the beginning," replied Cyrus Harding.

And in fact, the settlers were compelled to begin "at the very beginning." They did not possess even the tools necessary for making tools,

and they were not even in the condition of nature, who, "having time $\dot{}$

husbands her strength." They had no time, since they had to provide for the

immediate wants of their existence, and though, profiting by acquire d

experience, they had nothing to invent, still they had everything to make;

their iron and their steel were as yet only in the state of minerals , their

earthenware in the state of clay, their linen and their clothes in the

state of textile material.

It must be said, however, that the settlers were "men" in the comple te

and higher sense of the word. The engineer Harding could not have be

seconded by more intelligent companions, nor with more devotion and zeal.

He had tried them. He knew their abilities.

Gideon Spilett, a talented reporter, having learned everything so as

be able to speak of everything, would contribute largely with his he ad and

hands to the colonization of the island. He would not draw back from any

task: a determined sportsman, he would make a business of what till then

had only been a pleasure to him.

Herbert, a gallant boy, already remarkably well informed in the natural

sciences, would render greater service to the common cause.

Neb was devotion personified. Clever, intelligent, indefatigable, robust,

with iron health, he knew a little about the work of the forge, and could

not fail to be very useful in the colony.

As to Pencroft, he had sailed over every sea, a carpenter in the dockyards in Brooklyn, assistant tailor in the vessels of the state,

gardener, cultivator, during his holidays, etc., and like all seamen, fit for anything, he knew how to do everything.

It would have been difficult to unite five men, better fitted to struggle

against fate, more certain to triumph over it.

"At the beginning," Cyrus Harding had said. Now this beginning of which

the engineer spoke was the construction of an apparatus which would serve

to transform the natural substances. The part which heat plays in these

transformations is known. Now fuel, wood or coal, was ready for imme diate

use, an oven must be built to use it.

"What is this oven for?" asked Pencroft.

"To make the pottery which we have need of," replied Harding.

"And of what shall we make the oven?"

"With bricks."

"And the bricks?"

"With clay. Let us start, my friends. To save trouble, we will establish

our manufactory at the place of production. Neb will bring provision s, and

there will be no lack of fire to cook the food."

"No," replied the reporter; "but if there is a lack of food for want of

instruments for the chase?"

"Ah, if we only had a knife!" cried the sailor.

"Well?" asked Cyrus Harding.

"Well! I would soon make a bow and arrows, and then there could be $\ensuremath{\mathsf{p}}$ lenty

of game in the larder!"

"Yes, a knife, a sharp blade." said the engineer, as if he was speak ing to himself.

At this moment his eyes fell upon Top, who was running about on the shore. Suddenly Harding's face became animated.

"Top, here," said he.

The dog came at his master's call. The latter took Top's head between his

hands, and unfastening the collar which the animal wore round his ne ck , he

broke it in two, saying, --

"There are two knives, Pencroft!"

Two hurrahs from the sailor was the reply. Top's collar was made of a

thin piece of tempered steel. They had only to sharpen it on a piece of

sandstone, then to raise the edge on a finer stone. Now sandstone was

abundant on the beach, and two hours after the stock of tools in the colony

consisted of two sharp blades, which were easily fixed in solid hand les.

The production of these their first tools was hailed as a triumph. I t was

indeed a valuable result of their labor, and a very opportune one. They set

out.

Cyrus Harding proposed that they should return to the western shore of

the lake, where the day before he had noticed the clayey ground of \boldsymbol{w} hich he

possessed a specimen. They therefore followed the bank of the Mercy,

traversed Prospect Heights, and alter a walk of five miles or more they

reached a glade, situated two hundred feet from Lake Grant.

On the way Herbert had discovered a tree, the branches of which the Indians of South America employ for making their bows. It was the crejimba,

of the palm family, which does not bear edible fruit. Long straight branches were cut, the leaves stripped off; it was shaped, stronger in the

middle, more slender at the extremities, and nothing remained to be done

but to find a plant fit to make the bow-string. This was the "hibisc us

heterophyllus," which furnishes fibers of such remarkable tenacity that

they have been compared to the tendons of animals. Pencroft thus obtained

bows of tolerable strength, for which he only wanted arrows. These were

easily made with straight stiff branches, without knots, but the points

with which they must be armed, that is to say, a substance to serve

in lieu

of iron, could not be met with so easily. But Pencroft said, that ha ving

done his part of the work, chance would do the rest.

The settlers arrived on the ground which had been discovered the day

before. Being composed of the sort of clay which is used for making bricks

and tiles, it was very useful for the work in question. There was no great

difficulty in it. It was enough to scour the clay with sand, then to mold

the bricks and bake them by the heat of a wood fire.

Generally bricks are formed in molds, but the engineer contented him self

with making them by hand. All that day and the day following were employed

in this work. The clay, soaked in water, was mixed by the feet and h ands of

the manipulators, and then divided into pieces of equal size. A practiced

workman can make, without a machine, about ten thousand bricks in tw elve

hours; but in their two days work the five brickmakers on Lincoln Is land

had not made more than three thousand, which were ranged near each o ther,

until the time when their complete desiccation would permit them to be used

in building the oven, that is to say, in three or four days.

It was on the 2nd of April that Harding had employed himself in fixing

the orientation of the island, or, in other words, the precise spot where

the sun rose. The day before he had noted exactly the hour when the sun

disappeared beneath the horizon, making allowance for the refraction . This

morning he noted, no less exactly, the hour at which it reappeared. Between

this setting and rising twelve hours, twenty-four minutes passed. Then, six

hours, twelve minutes after its rising, the sun on this day would exactly

pass the meridian and the point of the sky which it occupied at this moment

would be the north. At the said hour, Cyrus marked this point, and putting

in a line with the sun two trees which would serve him for marks, he thus

obtained an invariable meridian for his ulterior operations.

The settlers employed the two days before the oven was built in

collecting fuel. Branches were cut all round the glade, and they pic ked up

all the fallen wood under the trees. They were also able to hunt with

greater success, since Pencroft now possessed some dozen arrows arme d with

sharp points. It was Top who had famished these points, by bringing in a

porcupine, rather inferior eating, but of great value, thanks to the quills

with which it bristled. These quills were fixed firmly at the ends of the

arrows, the flight of which was made more certain by some cockatoos'

feathers. The reporter and Herbert soon became very skilful archers. Game

of all sorts in consequence abounded at the Chimneys, capybaras, pig eons.

agouties, grouse, etc. The greater part of these animals were killed in the

part of the forest on the left bank of the Mercy, to which they gave the

name of Jacamar Wood, in remembrance of the bird which Pencroft and Herbert

had pursued when on their first exploration.

This game was eaten fresh, but they preserved some capybara hams, by

smoking them above a fire of green wood, after having perfumed them with

sweet-smelling leaves. However, this food, although very strengthening, was

always roast upon roast, and the party would have been delighted to hear

some soup bubbling on the hearth, but they must wait till a pot coul d be

made, and, consequently, till the oven was built.

During these excursions, which were not extended far from the brick-

field, the hunters could discern the recent passage of animals of a large

size, armed with powerful claws, but they could not recognize the species.

Cyrus Harding advised them to be very careful, as the forest probabl \mathbf{y}

enclosed many dangerous beasts.

And he did right. Indeed, Gideon Spilett and Herbert one day saw an animal which resembled a jaguar. Happily the creature did not attack them,

or they might not have escaped without a severe wound. As soon as he could

get a regular weapon, that is to say, one of the guns which Pencroft begged

for, Gideon Spilett resolved to make desperate war against the feroc

ious

beasts, and exterminate them from the island.

The Chimneys during these few days was not made more comfortable, for

the engineer hoped to discover, or build if necessary, a more convenient

dwelling. They contented themselves with spreading moss and dry leav es on

the sand of the passages, and on these primitive couches the tired workers

slept soundly.

They also reckoned the days they had passed on Lincoln Island, and from

that time kept a regular account. The 5th of April, which was Wednes day,

was twelve days from the time when the wind threw the castaways on \boldsymbol{t} his

shore.

On the 6th of April, at daybreak, the engineer and his companions we

collected in the glade, at the place where they were going to perfor $\ensuremath{\mathsf{m}}$ the

operation of baking the bricks. Naturally this had to be in the open air,

and not in a kiln, or rather, the agglomeration of bricks made an en ormous

kiln, which would bake itself. The fuel, made of well-prepared fagot s, was

laid on the ground and surrounded with several rows of dried bricks, which

soon formed an enormous cube, to the exterior of which they contrive d air-

holes. The work lasted all day, and it was not till the evening that they

set fire to the fagots. No one slept that night, all watching carefully to

keep up the fire.

The operation lasted forty-eight hours, and succeeded perfectly. It then

became necessary to leave the smoking mass to cool, and during this time

Neb and Pencroft, guided by Cyrus Harding, brought, on a hurdle made of

interlaced branches, loads of carbonate of lime and common stones, \boldsymbol{w} hich

were very abundant, to the north of the lake. These stones, when dec omposed

by heat, made a very strong quicklime, greatly increased by slacking , at

least as pure as if it had been produced by the calcination of chalk or

marble. Mixed with sand the lime made excellent mortar.

The result of these different works was, that, on the 9th of April, the

engineer had at his disposal a quantity of prepared lime and some thousands of bricks.

Without losing an instant, therefore, they began the construction of

kiln to bake the pottery, which was indispensable for their domestic use.

They succeeded without much difficulty. Five days after, the kiln was

supplied with coal, which the engineer had discovered lying open to the sky

towards the mouth of the Red Creek, and the first smoke escaped from a

chimney twenty feet high. The glade was transformed into a manufactory, and

Pencroft was not far wrong in believing that from this kiln would is sue all

the products of modern industry.

In the meantime what the settlers first manufactured was a common pottery

in which to cook their food. The chief material was clay, to which H arding

added a little lime and quartz. This paste made regular "pipe-clay," with

which they manufactured bowls, cups molded on stones of a proper siz e,

great jars and pots to hold water, etc. The shape of these objects was

clumsy and defective, but after they had been baked in a high temper ature,

the kitchen of the Chimneys was provided with a number of utensils, as

precious to the settlers as the most beautifully enameled china. We must

mention here that Pencroft, desirous to know if the clay thus prepar ed was

worthy of its name of pipe-clay, made some large pipes, which he thought

charming, but for which, alas! he had no tobacco, and that was a gre at

privation to Pencroft. "But tobacco will come, like everything else! " he

repeated, in a burst of absolute confidence.

This work lasted till the 15th of April, and the time was well employed.

The settlers, having become potters, made nothing but pottery. When it

suited Cyrus Harding to change them into smiths, they would become s miths.

But the next day being Sunday, and also Easter Sunday, all agreed to

sanctify the day by rest. These Americans were religious men, scrupu lous

observers of the precepts of the Bible, and their situation could not but

develop sentiments of confidence towards the Author of all things.

On the evening of the 15th of April they returned to the Chimneys, carrying with them the pottery, the furnace being extinguished until they

could put it to a new use. Their return was marked by a fortunate in cident;

the engineer discovered a substance which replaced tinder. It is known that

a spongy, velvety flesh is procured from a certain mushroom of the genus

polyporous. Properly prepared, it is extremely inflammable, especial ly when

it has been previously saturated with gunpowder, or boiled in a solution of

nitrate or chlorate of potash. But, till then, they had not found an y of

these polypores or even any of the morels which could replace them. On this

day, the engineer, seeing a plant belonging to the wormwood genus, the

principal species of which are absinthe, balm-mint, tarragon, etc., gathered several tufts, and, presenting them to the sailor, said,--

"Here, Pencroft, this will please you."

Pencroft looked attentively at the plant, covered with long silky hair,

the leaves being clothed with soft down.

"What's that, captain?" asked Pencroft. "Is it tobacco?"

"No," replied Harding, "it is wormwood; Chinese wormwood to the lear ned,

but to us it will be tinder."

When the wormwood was properly dried it provided them with a very inflammable substance, especially afterwards when the engineer had impregnated it with nitrate of potash, of which the island possessed

several beds, and which is in truth saltpeter.

The colonists had a good supper that evening. Neb prepared some agou

soup, a smoked capybara ham, to which was added the boiled tubercule s of

the "caladium macrorhizum," an herbaceous plant of the arum family. They

had an excellent taste, and were very nutritious, being something si milar

to the substance which is sold in England under the name of "Portlan

d

sago"; they were also a good substitute for bread, which the settler
s in

Lincoln Island did not yet possess.

When supper was finished, before sleeping, Harding and his companion s

went to take the air on the beach. it was eight o'clock in the evening; the

night was magnificent. The moon, which had been full five days befor e, had

not yet risen, but the horizon was already silvered by those soft, p ale

shades which might be called the dawn of the moon. At the southern z enith

glittered the circumpolar constellations, and above all the Southern Cross,

which some days before the engineer had greeted on the summit of Mount

Franklin.

Cyrus Harding gazed for some time at this splendid constellation, which

has at its summit and at its base two stars of the first magnitude, at its

left arm a star of the second, and at its right arm a star of the th ird magnitude.

Then, after some minutes thought--

"Herbert," he asked of the lad, "is not this the 15th of April?"

"Yes, captain," replied Herbert.

"Well, if I am not mistaken, to-morrow will be one of the four days in

the year in which the real time is identical with average time; that is to

say, my boy, that to-morrow, to within some seconds, the sun will pass the

meridian just at midday by the clocks. If the weather is fine I thin k that

I shall obtain the longitude of the island with an approximation of some degrees."

"Without instruments, without sextant?" asked Gideon Spilett.

"Yes," replied the engineer. "Also, since the night is clear, I will try,

this very evening, to obtain our latitude by calculating the height of the

Southern Cross, that is, from the southern pole above the horizon. Y ou

understand, my friends, that before undertaking the work of installa

tion in

earnest it is not enough to have found out that this land is an island; we

must, as nearly as possible, know at what distance it is situated, e ither

from the American continent or Australia, or from the principal archipelagoes of the Pacific."

"In fact," said the reporter, "instead of building a house it would be

more important to build a boat, if by chance we are not more than a hundred

miles from an inhabited coast."

"That is why," returned Harding, "I am going to try this evening to calculate the latitude of Lincoln Island, and to-morrow, at midday, I will

try to calculate the longitude."

If the engineer had possessed a sextant, an apparatus with which the

angular distance of objects can be measured with great precision, there

would have been no difficulty in the operation. This evening by the height

of the pole, the next day by the passing of the sun at the meridian, he

would obtain the position of the island. But as they had not one he would

have to supply the deficiency.

Harding then entered the Chimneys. By the light of the fire he cut t wo

little flat rulers, which he joined together at one end so as to for m a

pair of compasses, whose legs could separate or come together. The fastening was fixed with a strong acacia thorn which was found in the wood

pile. This instrument finished, the engineer returned to the beach, but as

it was necessary to take the height of the pole from above a clear h orizon,

that is, a sea horizon, and as Claw Cape hid the southern horizon, he was

obliged to look for a more suitable station. The best would evidently have

been the shore exposed directly to the south; but the Mercy would have to

be crossed, and that was a difficulty. Harding resolved, in conseque nce, to

make his observation from Prospect Heights, taking into consideration its

height above the level of the sea--a height which he intended to cal culate

next day by a simple process of elementary geometry.

The settlers, therefore, went to the plateau, ascending the left ban k of

the Mercy, and placed themselves on the edge which looked northwest and

southeast, that is, above the curiously-shaped rocks which bordered the river.

This part of the plateau commanded the heights of the left bank, whi

sloped away to the extremity of Claw Cape, and to the southern side of the

island. No obstacle intercepted their gaze, which swept the horizon in a

semi-circle from the cape to Reptile End. To the south the horizon, lighted

by the first rays of the moon, was very clearly defined against the sky.

At this moment the Southern Cross presented itself to the observer in an

inverted position, the star Alpha marking its base, which is nearer to the southern pole.

This constellation is not situated as near to the antarctic pole as the

Polar Star is to the arctic pole. The star Alpha is about twenty-sev en

degrees from it, but Cyrus Harding knew this and made allowance for it in

his calculation. He took care also to observe the moment when it pas sed the

meridian below the pole, which would simplify the operation.

Cyrus Harding pointed one leg of the compasses to the horizon, the o

to Alpha, and the space between the two legs gave him the angular distance

which separated Alpha from the horizon. In order to fix the angle obtained,

he fastened with thorns the two pieces of wood on a third placed transversely, so that their separation should be properly maintained

That done, there was only the angle to calculate by bringing back the

observation to the level of the sea, taking into consideration the depression of the horizon, which would necessitate measuring the height of

the cliff. The value of this angle would give the height of Alpha, a nd

consequently that of the pole above the horizon, that is to say, the

latitude of the island, since the latitude of a point of the globe is

always equal to the height of the pole above the horizon of this point.

The calculations were left for the next day, and at ten o'clock ever y one was sleeping soundly.

Chapter 14

The next day, the 16th of April, and Easter Sunday, the settlers issued

engineer intended to manufacture soap as soon as he could procure the

necessary materials--soda or potash, fat or oil. The important quest ion of

renewing their wardrobe would be treated of in the proper time and p lace.

At any rate their clothes would last at least six months longer, for they

were strong, and could resist the wear of manual labor. But all would

depend on the situation of the island with regard to inhabited land. This

would be settled to-day if the weather permitted.

The sun rising above a clear horizon, announced a magnificent day, o ne of

those beautiful autumn days which are like the last farewells of the warm season.

It was now necessary to complete the observations of the evening before

by measuring the height of the cliff above the level of the sea.

"Shall you not need an instrument similar to the one which you used yesterday?" said Herbert to the engineer.

"No, my boy," replied the latter, "we are going to proceed different ly,

but in as precise a way."

Herbert, wishing to learn everything he could, followed the engineer to

the beach. Pencroft, Neb, and the reporter remained behind and occupied

themselves in different ways.

Cyrus Harding had provided himself with a straight stick, twelve fee t

long, which he had measured as exactly as possible by comparing it with his

own height, which he knew to a hair. Herbert carried a plumb-line which

Harding had given him, that is to say, a simple stone fastened to the end

of a flexible fiber. Having reached a spot about twenty feet from the edge

of the beach, and nearly five hundred feet from the cliff, which rose

perpendicularly, Harding thrust the pole two feet into the sand, and

wedging it up carefully, he managed, by means of the plumb-line, to erect

it perpendicularly with the plane of the horizon.

That done, he retired the necessary distance, when, lying on the san d,

his eye glanced at the same time at the top of the pole and the cres t of

the cliff. He carefully marked the place with a little stick.

Then addressing Herbert--"Do you know the first principles of geometry?"

he asked.

"Slightly, captain," replied Herbert, who did not wish to put himsel forward.

"You remember what are the properties of two similar triangles?"

"Yes," replied Herbert; "their homologous sides are proportional."

"Well, my boy, I have just constructed two similar right-angled triangles; the first, the smallest, has for its sides the perpendicular

pole, the distance which separates the little stick from the foot of the

pole and my visual ray for hypothenuse; the second has for its sides

perpendicular cliff, the height of which we wish to measure, the distance

which separates the little stick from the bottom of the cliff, and m \mathbf{y}

visual ray also forms its hypothenuse, which proves to be prolongati on of

that of the first triangle."

"Ah, captain, I understand!" cried Herbert. "As the distance from the stick to the pole is to the distance from the stick to the base of the cliff, so is the height of the pole to the height of the cliff."

"Just so, Herbert," replied the engineer; "and when we have measured the

two first distances, knowing the height of the pole, we shall only h ave a

sum in proportion to do, which will give us the height of the cliff, and

will save us the trouble of measuring it directly."

The two horizontal distances were found out by means of the pole, whose

length above the sand was exactly ten feet.

The first distance was fifteen feet between the stick and the place where

the pole was thrust into the sand.

The second distance between the stick and the bottom of the cliff was sive hundred feet.

These measurements finished, Cyrus Harding and the lad returned to the Chimneys.

The engineer then took a flat stone which he had brought back from o ne of

his previous excursions, a sort of slate, on which it was easy to trace

figures with a sharp shell. He then proved the following proportions:—-

15:500::10:x

 $500 \times 10 = 5000$

5000 / 15 = 333.3

From which it was proved that the granite cliff measured 333 feet in height.

Cyrus Harding then took the instrument which he had made the evening

before, the space between its two legs giving the angular distance between

the star Alpha and the horizon. He measured, very exactly, the opening of

this angle on a circumference which he divided into 360 equal parts. Now,

this angle by adding to it the twenty-seven degrees which separated Alpha

from the antarctic pole, and by reducing to the level of the sea the height

of the cliff on which the observation had been made, was found to be fifty-

three degrees. These fifty-three degrees being subtracted from ninet

degrees--the distance from the pole to the equator--there remained thirty-

seven degrees. Cyrus Harding concluded, therefore, that Lincoln Isla nd was

situated on the thirty-seventh degree of the southern latitude, or taking

into consideration through the imperfection of the performance, an error of

five degrees, that it must be situated between the thirty-fifth and the

fortieth parallel.

There was only the longitude to be obtained, and the position of the

island would be determined, The engineer hoped to attempt this the same

day, at twelve o'clock, at which moment the sun would pass the merid ian.

It was decided that Sunday should be spent in a walk, or rather an exploring expedition, to that side of the island between the north of the

lake and Shark Gulf, and if there was time they would push their discoveries to the northern side of Cape South Mandible. They would breakfast on the downs, and not return till evening.

At half-past eight the little band was following the edge of the channel.

On the other side, on Safety Islet, numerous birds were gravely strutting.

They were divers, easily recognized by their cry, which much resembles the

braying of a donkey. Pencroft only considered them in an eatable point of

view, and learnt with some satisfaction that their flesh, though blackish,

is not bad food.

Great amphibious creatures could also be seen crawling on the sand; seals, doubtless, who appeared to have chosen the islet for a place of

refuge. It was impossible to think of those animals in an alimentary point

of view, for their oily flesh is detestable; however, Cyrus Harding observed them attentively, and without making known his idea, he ann ounced

to his companions that very soon they would pay a visit to the islet . The

beach was strewn with innumerable shells, some of which would have rejoiced

the heart of a conchologist; there were, among others, the phasianel la, the

terebratual, etc. But what would be of more use, was the discovery, by Neb,

at low tide, of a large oysterbed among the rocks, nearly five miles

from the Chimneys.

"Neb will not have lost his day," cried Pencroft, looking at the spa cious oyster-bed.

"It is really a fortunate discovery," said the reporter, "and as it is

said that each oyster produces yearly from fifty to sixty thousand e ggs, we

shall have an inexhaustible supply there."

"Only I believe that the oyster is not very nourishing," said Herber t.

"No," replied Harding. "The oyster contains very little nitrogen, an d if

a man lived exclusively on them, he would have to eat not less than fifteen

to sixteen dozen a day."

"Capital!" replied Pencroft. "We might swallow dozens and dozens wit hout

exhausting the bed. Shall we take some for breakfast?"

And without waiting for a reply to this proposal, knowing that it would

be approved of, the sailor and Neb detached a quantity of the mollus cs.

They put them in a sort of net of hibiscus fiber, which Neb had manufactured, and which already contained food; they then continued to

climb the coast between the downs and the sea.

From time to time Harding consulted his watch, so as to be prepared in

time for the solar observation, which had to be made exactly at midd ay.

All that part of the island was very barren as far as the point which

closed Union Bay, and which had received the name of Cape South Mandible.

Nothing could be seen there but sand and shells, mingled with debris of

lava. A few sea-birds frequented this desolate coast, gulls, great albatrosses, as well as wild duck, for which Pencroft had a great fancy. He

tried to knock some over with an arrow, but without result, for they seldom

perched, and he could not hit them on the wing.

This led the sailor to repeat to the engineer, --

"You see, captain, so long as we have not one or two fowling-pieces,

we

shall never get anything!"

"Doubtless, Pencroft," replied the reporter, "but it depends on you.

Procure us some iron for the barrels, steel for the hammers, saltpet er.

coal and sulphur for powder, mercury and nitric acid for the fulmina te, and

lead for the shot, and the captain will make us first-rate guns."

"Oh!" replied the engineer, "we might, no doubt, find all these substances on the island, but a gun is a delicate instrument, and ne eds

very particular tools. However, we shall see later!"

"Why," cried Pencroft, "were we obliged to throw overboard all the weapons we had with us in the car, all our implements, even our pock et-

knives?"

"But if we had not thrown them away, Pencroft, the balloon would have thrown us to the bottom of the sea!" said Herbert.

"What you say is true, my boy," replied the sailor.

Then passing to another idea, -- "Think, " said he, "how astounded Jona than

Forster and his companions must have been when, next morning, they found

the place empty, and the machine flown away!"

"I am utterly indifferent about knowing what they may have thought," said the reporter.

"It was all my idea, that!" said Pencroft, with a satisfied air.

"A splendid idea, Pencroft!" replied Gideon Spilett, laughing, "and which

has placed us where we are."

"I would rather be here than in the hands of the Southerners," cried the

sailor, "especially since the captain has been kind enough to come a nd join us again."

"So would I, truly!" replied the reporter. "Besides, what do we want? Nothing."

"If that is not--everything!" replied Pencroft, laughing and shrugging his shoulders. "But, some day or other, we shall find means of going

"Sooner, perhaps, than you imagine, my friends," remarked the engine er,

"if Lincoln Island is but a medium distance from an inhabited island, or

from a continent. We shall know in an hour. I have not a map of the Pacific, but my memory has preserved a very clear recollection of its

southern part. The latitude which I obtained yesterday placed New Ze aland

to the west of Lincoln Island, and the coast of Chile to the east. B

between these two countries, there is a distance of at least six tho usand

miles. It has, therefore, to be determined what point in this great space

the island occupies, and this the longitude will give us presently, with a

sufficient approximation, I hope."

"Is not the archipelago of the Pomoutous the nearest point to us in latitude?" asked Herbert.

"Yes," replied the engineer, "but the distance which separates us from it

is more than twelve hundred miles."

"And that way?" asked Neb, who followed the conversation with extrem e interest, pointing to the south.

"That way, nothing," replied Pencroft.

"Nothing, indeed," added the engineer.

"Well, Cyrus," asked the reporter, "if Lincoln Island is not more than two or three thousand miles from New Zealand or Chile?"

"Well," replied the engineer, "instead of building a house we will build

a boat, and Master Pencroft shall be put in command--"

"Well then," cried the sailor, "I am quite ready to be captain--as soon

as you can make a craft that's able to keep at sea!"

"We shall do it, if it is necessary," replied Cyrus Harding.

But while these men, who really hesitated at nothing, were talking, the

hour approached at which the observation was to be made. What Cyrus Harding

was to do to ascertain the passage of the sun at the meridian of the

island, without an instrument of any sort, Herbert could not guess.

The observers were then about six miles from the Chimneys, not far f rom

that part of the downs in which the engineer had been found after his

enigmatical preservation. They halted at this place and prepared for

breakfast, for it was half-past eleven. Herbert went for some fresh water

from a stream which ran near, and brought it back in a jug, which Ne b had provided.

During these preparations Harding arranged everything for his astronomical observation. He chose a clear place on the shore, which the

ebbing tide had left perfectly level. This bed of fine sand was as s mooth

as ice, not a grain out of place. It was of little importance whether it

was horizontal or not, and it did not matter much whether the stick $\sin x$

feet high, which was planted there, rose perpendicularly. On the contrary,

the engineer inclined it towards the south, that is to say, in the direction of the coast opposite to the sun, for it must not be forgo tten

that the settlers in Lincoln Island, as the island was situated in the

Southern Hemisphere, saw the radiant planet describe its diurnal arc above

the northern, and not above the southern horizon.

Herbert now understood how the engineer was going to proceed to asce rtain

the culmination of the sun, that is to say its passing the meridian of the

island or, in other words, determine due south. It was by means of the

shadow cast on the sand by the stick, a way which, for want of an instrument, would give him a suitable approach to the result which he

wished to obtain.

In fact, the moment when this shadow would reach its minimum of length

would be exactly twelve o'clock, and it would be enough to watch the

extremity of the shadow, so as to ascertain the instant when, alter having

successively diminished, it began to lengthen. By inclining his stic \boldsymbol{k} to

the side opposite to the sun, Cyrus Harding made the shadow longer, and

consequently its modifications would be more easily ascertained. In

fact,

the longer the needle of a dial is, the more easily can the movement of its

point be followed. The shadow of the stick was nothing but the needle of a

dial. The moment had come, and Cyrus Harding knelt on the sand, and with

little wooden pegs, which he stuck into the sand, he began to mark the

successive diminutions of the stick's shadow. His companions, bending over

him, watched the operation with extreme interest. The reporter held his

chronometer in his hand, ready to tell the hour which it marked when the

shadow would be at its shortest. Moreover, as Cyrus Harding was work ing on

the 16th of April, the day on which the true and the average time ar e

identical, the hour given by Gideon Spilett would be the true hour then at

Washington, which would simplify the calculation. Meanwhile as the s

slowly advanced, the shadow slowly diminished, and when it appeared to

Cyrus Harding that it was beginning to increase, he asked, "What o'c lock is

it?"

"One minute past five," replied Gideon Spilett directly. They had no $\ensuremath{\mathtt{w}}$

only to calculate the operation. Nothing could be easier. It could be seen

that there existed, in round numbers, a difference of five hours bet ween

the meridian of Washington and that of Lincoln Island, that is to say, it

was midday in Lincoln Island when it was already five o'clock in the

evening in Washington. Now the sun, in its apparent movement round the

earth, traverses one degree in four minutes, or fifteen degrees an hour.

Fifteen degrees multiplied by five hours give seventy-five degrees.

Then, since Washington is 77deg 3' 11" as much as to say seventy-sev en

degrees counted from the meridian of Greenwich which the Americans take for

their starting-point for longitudes concurrently with the English--i

followed that the island must be situated seventy-seven and seventy-five

degrees west of the meridian of Greenwich, that is to say, on the hundred

and fifty-second degree of west longitude.

Cyrus Harding announced this result to his companions, and taking in to

consideration errors of observation, as he had done for the latitude , he

believed he could positively affirm that the position of Lincoln Isl and was

between the thirty-fifth and the thirty-seventh parallel, and between the

hundred and fiftieth and the hundred and fifty-fifth meridian to the west

of the meridian of Greenwich.

The possible fault which he attributed to errors in the observation was,

it may be seen, of five degrees on both sides, which, at sixty miles to a

degree, would give an error of three hundred miles in latitude and longitude for the exact position.

But this error would not influence the determination which it was necessary to take. It was very evident that Lincoln Island was at such a

distance from every country or island that it would be too hazardous to

attempt to reach one in a frail boat.

In fact, this calculation placed it at least twelve hundred miles from

Tahiti and the islands of the archipelago of the Pomoutous, more than

eighteen hundred miles from New Zealand, and more than four thousand five

hundred miles from the American coast!

And when Cyrus Harding consulted his memory, he could not remember in any

way that such an island occupied, in that part of the Pacific, the situation assigned to Lincoln Island.

Chapter 15

The next day, the 17th of April, the sailor's first words were addressed to Gideon Spilett.

"Well, sir," he asked, "what shall we do to-day?"

"What the captain pleases," replied the reporter.

Till then the engineer's companions had been brickmakers and potters , now they were to become metallurgists.

The day before, after breakfast, they had explored as far as the poi

nt of

Mandible Cape, seven miles distant from the Chimneys. There, the lon

series of downs ended, and the soil had a volcanic appearance. There were

no longer high cliffs as at Prospect Heights, but a strange and capricious

border which surrounded the narrow gulf between the two capes, forme d of

mineral matter, thrown up by the volcano. Arrived at this point the settlers retraced their steps, and at nightfall entered the Chimneys; but

they did not sleep before the question of knowing whether they could think

of leaving Lincoln Island or not was definitely settled.

The twelve hundred miles which separated the island from the Pomouto us

Island was a considerable distance. A boat could not cross it, especially

at the approach of the bad season. Pencroft had expressly declared this.

Now, to construct a simple boat even with the necessary tools, was a

difficult work, and the colonists not having tools they must begin by

making hammers, axes, adzes, saws, augers, planes, etc., which would take

some time. It was decided, therefore, that they would winter at Linc oln

Island, and that they would look for a more comfortable dwelling than the

Chimneys, in which to pass the winter months.

Before anything else could be done it was necessary to make the iron ore,

of which the engineer had observed some traces in the northwest part of the

island, fit for use by converting it either into iron or into steel.

Metals are not generally found in the ground in a pure state. For the

most part they are combined with oxygen or sulphur. Such was the cas e with

the two specimens which Cyrus Harding had brought back, one of magne tic

iron, not carbonated, the other a pyrite, also called sulphuret of i ron. It

was, therefore the first, the oxide of iron, which they must reduce with

coal, that is to say, get rid of the oxygen, to obtain it in a pure state.

This reduction is made by subjecting the ore with coal to a high temperature, either by the rapid and easy Catalan method, which has the

advantage of transforming the ore into iron in a single operation, or by

the blast furnace, which first smelts the ore, then changes it into iron,

by carrying away the three to four per cent. of coal, which is combined with it.

Now Cyrus Harding wanted iron, and he wished to obtain it as soon as

possible. The ore which he had picked up was in itself very pure and rich.

It was the oxydulous iron, which is found in confused masses of a de ep gray

color; it gives a black dust, crystallized in the form of the regula r

octahedron. Native lodestones consist of this ore, and iron of the first

quality is made in Europe from that with which Sweden and Norway are so

abundantly supplied. Not far from this vein was the vein of coal alr eady

made use of by the settlers. The ingredients for the manufacture being

close together would greatly facilitate the treatment of the ore. This is

the cause of the wealth of the mines in Great Britain, where the coal aids

the manufacture of the metal extracted from the same soil at the same time as itself.

"Then, captain," said Pencroft, "we are going to work iron ore?"

"Yes, my friend," replied the engineer, "and for that--something which

will please you -- we must begin by having a seal hunt on the islet."

"A seal hunt!" cried the sailor, turning towards Gideon Spilett. "Ar e seals needed to make iron?"

"Since Cyrus has said so!" replied the reporter.

But the engineer had already left the Chimneys, and Pencroft prepare d for

the seal hunt, without having received any other explanation.

Cyrus Harding, Herbert, Gideon Spilett, Neb, and the sailor were soon

collected on the shore, at a place where the channel left a ford pas sable

at low tide. The hunters could therefore traverse it without getting wet

higher than the knee.

Harding then put his foot on the islet for the first, and his companions

for the second time.

On their landing some hundreds of penguins looked fearlessly at them . The $\,$

hunters, armed with sticks, could have killed them easily, but they were

not guilty of such useless massacre, as it was important not to frighten

the seals, who were lying on the sand several cable lengths off. The y also

respected certain innocent-looking birds, whose wings were reduced to the

state of stumps, spread out like fins, ornamented with feathers of a scaly

appearance. The settlers, therefore, prudently advanced towards the north

point, walking over ground riddled with little holes, which formed n ests

for the sea-birds. Towards the extremity of the islet appeared great black

heads floating just above the water, having exactly the appearance of rocks

in motion.

These were the seals which were to be captured. It was necessary, however, first to allow them to land, for with their close, short ha ir, and

their fusiform conformation, being excellent swimmers, it is difficult to

catch them in the sea, while on land their short, webbed feet preven t their

having more than a slow, waddling movement.

Pencroft knew the habits of these creatures, and he advised waiting till

they were stretched on the sand, when the sun, before long, would se nd them $\,$

to sleep. They must then manage to cut off their retreat and knock them on

the head.

The hunters, having concealed themselves behind the rocks, waited silently.

An hour passed before the seals came to play on the sand. They could

count half a dozen. Pencroft and Herbert then went round the point of the

islet, so as to take them in the rear, and cut off their retreat. During

this time Cyrus Harding, Spilett, and Neb, crawling behind the rocks, glided towards the future scene of combat.

All at once the tall figure of the sailor appeared. Pencroft shouted . The

engineer and his two companions threw themselves between the sea and the

seals. Two of the animals soon lay dead on the sand, but the rest regained

the sea in safety.

"Here are the seals required, captain!" said the sailor, advancing towards the engineer.

"Capital," replied Harding. "We will make bellows of them!"

"Bellows!" cried Pencroft. "Well! these are lucky seals!"

It was, in fact, a blowing-machine, necessary for the treatment of the

ore that the engineer wished to manufacture with the skins of the amphibious creatures. They were of a medium size, for their length d id not

exceed six feet. They resembled a dog about the head.

As it was useless to burden themselves with the weight of both the animals, Neb and Pencroft resolved to skin them on the spot, while C yrus

Harding and the reporter continued to explore the islet.

The sailor and the Negro cleverly performed the operation, and three

hours afterwards Cyrus Harding had at his disposal two seals' skins, which

he intended to use in this state, without subjecting them to any tan ning process.

The settlers waited till the tide was again low, and crossing the channel

they entered the Chimneys.

The skins had then to be stretched on a frame of wood and sewn by me ans

of fibers so as to preserve the air without allowing too much to escape.

Cyrus Harding had nothing but the two steel blades from Top's collar , and

yet he was so clever, and his companions aided him with so much intelligence, that three days afterwards the little colony's stock of tools

was augmented by a blowing-machine, destined to inject the air into the

midst of the ore when it should be subjected to heat--an indispensab le

condition to the success of the operation.

On the morning of the 20th of April began the "metallic period," as the

reporter called it in his notes. The engineer had decided, as has be en

said, to operate near the veins both of coal and ore. Now, according to his

observations, these veins were situated at the foot of the northeast spurs

of Mount Franklin, that is to say, a distance of six miles from their home.

It was impossible, therefore, to return every day to the Chimneys, a nd it

was agreed that the little colony should camp under a hut of branche s, so

that the important operation could be followed night and day.

This settled, they set out in the morning. Neb and Pencroft dragged the

bellows on a hurdle; also a quantity of vegetables and animals, which they

besides could renew on the way.

The road led through Jacamar Wood, which they traversed obliquely from

southeast to northwest, and in the thickest part. It was necessary to beat

a path, which would in the future form the most direct road to Prosp ect

Heights and Mount Franklin. The trees, belonging to the species already

discovered, were magnificent. Herbert found some new ones, among oth ers

some which Pencroft called "sham leeks"; for, in spite of their size , they

were of the same liliaceous family as the onion, chive, shallot, or asparagus. These trees produce ligneous roots which, when cooked, ar e

excellent; from them, by fermentation, a very agreeable liquor is ma de.

They therefore made a good store of the roots.

The journey through the wood was long; it lasted the whole day, and so

allowed plenty of time for examining the flora and fauna. Top, who took

special charge of the fauna, ran through the grass and brushwood, putting

up all sorts of game. Herbert and Gideon Spilett killed two kangaroo s with

bows and arrows, and also an animal which strongly resembled both a hedgehog and an ant-eater. It was like the first because it rolled i tself

into a ball, and bristled with spines, and the second because it had sharp

claws, a long slender snout which terminated in a bird's beak, and a

extendible tongue, covered with little thorns which served to hold the

insects.

"And when it is in the pot," asked Pencroft naturally, "what will it be like?"

"An excellent piece of beef," replied Herbert.

"We will not ask more from it," replied the sailor,

During this excursion they saw several wild boars, which however, did not

offer to attack the little band, and it appeared as if they would no t meet

with any dangerous beasts; when, in a thick part of the wood, the reporter

thought he saw, some paces from him, among the lower branches of a tree, an

animal which he took for a bear, and which he very tranquilly began to

draw. Happily for Gideon Spilett, the animal in question did not belong to

the redoubtable family of the plantigrades. It was only a koala, bet ter

known under the name of the sloth, being about the size of a large d og, and

having stiff hair of a dirty color, the paws armed with strong claws , which

enabled it to climb trees and feed on the leaves. Having identified the

animal, which they did not disturb, Gideon Spilett erased "bear" fro ${\tt m}$ the

title of his sketch, putting koala in its place, and the journey was resumed.

At five o'clock in the evening, Cyrus Harding gave the signal to hal

They were now outside the forest, at the beginning of the powerful spurs

which supported Mount Franklin towards the west. At a distance of so me

hundred feet flowed the Red Creek, and consequently plenty of fresh water

was within their reach.

The camp was soon organized. In less than an hour, on the edge of the

forest, among the trees, a hut of branches interlaced with creepers, and

pasted over with clay, offered a tolerable shelter. Their geological

researches were put off till the next day. Supper was prepared, a go od fire

blazed before the hut, the roast turned, and at eight o'clock, while one of

the settlers watched to keep up the fire, in case any wild beasts should

prowl in the neighborhood, the others slept soundly.

The next day, the 21st of April, Cyrus Harding accompanied by Herber t,

went to look for the soil of ancient formation, on which he had alre ady

discovered a specimen of ore. They found the vein above ground, near the

source of the creek, at the foot of one of the northeastern spurs. This

ore, very rich in iron, enclosed in its fusible veinstone, was perfectly

suited to the mode of reduction which the engineer intended to emplo y; that

is, the Catalan method, but simplified, as it is used in Corsica. In fact,

the Catalan method, properly so called, requires the construction of kilns

and crucibles, in which the ore and the coal, placed in alternate layers,

are transformed and reduced, But Cyrus Harding intended to economize these

constructions, and wished simply to form, with the ore and the coal, a

cubic mass, to the center of which he would direct the wind from his

bellows. Doubtless, it was the proceeding employed by Tubalcain, and the

first metallurgists of the inhabited world. Now that which had succeeded

with the grandson of Adam, and which still yielded good results in countries which in ore and fuel, could not but succeed with the sett lers in

Lincoln Island.

The coal, as well as the ore, was collected without trouble on the surface of the ground. They first broke the ore into little pieces, and

cleansed them with the hand from the impurities which soiled their s urface.

Then coal and ore were arranged in heaps and in successive layers, a s the

charcoal-burner does with the wood which he wishes to carbonize. In this

way, under the influence of the air projected by the blowing-machine, the

coal would be transformed into carbonic acid, then into oxide of carbon.

its use being to reduce the oxide of iron, that is to say, to rid it of the oxygen.

Thus the engineer proceeded. The bellows of sealskin, furnished at i ts

extremity with a nozzle of clay, which had been previously fabricate d in

the pottery kiln, was established near the heap of ore. Using the me chanism

which consisted of a frame, cords of fiber and counterpoise, he thre w into

the mass an abundance of air, which by raising the temperature also concurred with the chemical transformation to produce in time pure i

The operation was difficult. All the patience, all the ingenuity of the

settlers was needed; but at last it succeeded, and the result was a lump of

iron, reduced to a spongy state, which it was necessary to shingle and

fagot, that is to say, to forge so as to expel from it the liquefied

veinstone. These amateur smiths had, of course, no hammer; but they were in

no worse a situation than the first metallurgist, and therefore did what,

no doubt, he had to do.

A handle was fixed to the first lump, and was used as a hammer to forge

the second on a granite anvil, and thus they obtained a coarse but u seful

metal. At length, after many trials and much fatigue, on the 25th of April

several bars of iron were forged, and transformed into tools, crowbars,

pincers, pickaxes, spades, etc., which Pencroft and Neb declared to be real

jewels. But the metal was not yet in its most serviceable state, that is,

of steel. Now steel is a combination of iron and coal, which is extracted,

either from the liquid ore, by taking from it the excess of coal, or from

the iron by adding to it the coal which was wanting. The first, obtained by

the decarburation of the metal, gives natural or puddled steel; the second,

produced by the carburation of the iron, gives steel of cementation.

It was the last which Cyrus Harding intended to forge, as he possessed

iron in a pure state. He succeeded by heating the metal with powdere d coal

in a crucible which had previously been manufactured from clay suitable for

the purpose.

He then worked this steel, which is malleable both when hot or cold,

with

the hammer. Neb and Pencroft, cleverly directed, made hatchets, which,

heated red-hot, and plunged suddenly into cold water, acquired an excellent temper.

Other instruments, of course roughly fashioned, were also manufactured;

blades for planes, axes, hatchets, pieces of steel to be transformed into

saws, chisels; then iron for spades, pickaxes, hammers, nails, etc.

last, on the 5th of May, the metallic period ended, the smiths returned to $\ensuremath{\mathsf{N}}$

the Chimneys, and new work would soon authorize them to take a fresh title.

Chapter 16

It was the 6th of May, a day which corresponds to the 6th of November in

the countries of the Northern Hemisphere. The sky had been obscured for

some days, and it was of importance to make preparations for the win ter.

However, the temperature was not as yet much lower, and a centigrade

thermometer, transported to Lincoln Island, would still have marked an

average of ten to twelve degrees above zero. This was not surprising , since

Lincoln Island, probably situated between the thirty-fifth and forti eth

parallel, would be subject, in the Southern Hemisphere, to the same climate

as Sicily or Greece in the Northern Hemisphere. But as Greece and Sicily

have severe cold, producing snow and ice, so doubtless would Lincoln Island

in the severest part of the winter and it was advisable to provide a gainst it.

In any case if cold did not yet threaten them, the rainy season would

begin, and on this lonely island, exposed to all the fury of the elements,

in mid-ocean, bad weather would be frequent, and probably terrible.

question of a more comfortable dwelling than the Chimneys must there fore be

seriously considered and promptly resolved on.

Pencroft, naturally, had some predilection for the retreat which he

had

discovered, but he well understood that another must be found. The C himneys

had been already visited by the sea, under circumstances which are k nown,

and it would not do to be exposed again to a similar accident.

"Besides," added Cyrus Harding, who this day was talking of these things

with his companions, "we have some precautions to take."

"Why? The island is not inhabited," said the reporter.

"That is probable," replied the engineer, "although we have not yet explored the interior; but if no human beings are found, I fear that

dangerous animals may abound. It is necessary to guard against a pos sible

attack, so that we shall not be obliged to watch every night, or to keep up

a fire. And then, my friends, we must foresee everything. We are her e in a

part of the Pacific often frequented by Malay pirates--"

"What!" said Herbert, "at such a distance from land?"

"Yes, my boy," replied the engineer. "These pirates are bold sailors as

well as formidable enemies, and we must take measures accordingly."

"Well," replied Pencroft, "we will fortify ourselves against savages with

two legs as well as against savages with four. But, captain, will it not be

best to explore every part of the island before undertaking anything else?"

"That would be best," added Gideon Spilett.

"Who knows if we might not find on the opposite side one of the cave $\ensuremath{\mathtt{rns}}$

which we have searched for in vain here?"

"That is true," replied the engineer, "but you forget, my friends, that

it will be necessary to establish ourselves in the neighborhood of a

watercourse, and that, from the summit of Mount Franklin, we could n ot see

towards the west, either stream or river. Here, on the contrary, we are

placed between the Mercy and Lake Grant, an advantage which must not

neglected. And, besides, this side, looking towards the east, is not

exposed as the other is to the trade-winds, which in this hemisphere

blow
from the northwest."

"Then, captain," replied the sailor, "let us build a house on the ed ge of the lake. Neither bricks nor tools are wanting now. After having bee n brickmakers, potters, smelters, and smiths, we shall surely know how to be masons!"

"Yes, my friend; but before coming to any decision we must consider the

matter thoroughly. A natural dwelling would spare us much work, and would

be a surer retreat, for it would be as well defended against enemies from

the interior as those from outside."

"That is true, Cyrus," replied the reporter, "but we have already examined all that mass of granite, and there is not a hole, not a cranny!"

"No, not one!" added Pencroft. "Ah, if we were able to dig out a dwe lling

in that cliff, at a good height, so as to be out of the reach of har m, that

would be capital! I can see that on the front which looks seaward, f ive or

six rooms--"

"With windows to light them!" said Herbert, laughing.

"And a staircase to climb up to them!" added Neb.

"You are laughing," cried the sailor, "and why? What is there imposs ible

in what I propose? Haven't we got pickaxes and spades? Won't Captain

Harding be able to make powder to blow up the mine? Isn't it true, c aptain,

that you will make powder the very day we want it?"

Cyrus Harding listened to the enthusiastic Pencroft developing his fanciful projects. To attack this mass of granite, even by a mine, w as

Herculean work, and it was really vexing that nature could not help them at

their need. But the engineer did not reply to the sailor except by proposing to examine the cliff more attentively, from the mouth of the

river to the angle which terminated it on the north.

They went out, therefore, and the exploration was made with extreme care,

over an extent of nearly two miles. But in no place in the bare, str

aight

cliff, could any cavity be found. The nests of the rock pigeons which

fluttered at its summit were only, in reality, holes bored at the very top,

and on the irregular edge of the granite.

It was a provoking circumstance, and as to attacking this cliff, either

with pickaxe or with powder, so as to effect a sufficient excavation , it

was not to be thought of. It so happened that, on all this part of the

shore, Pencroft had discovered the only habitable shelter, that is to say,

the Chimneys, which now had to be abandoned.

The exploration ended, the colonists found themselves at the north a ngle

of the cliff, where it terminated in long slopes which died away on the

shore. From this place, to its extreme limit in the west, it only formed a

sort of declivity, a thick mass of stones, earth, and sand, bound to gether

by plants, bushes, and grass inclined at an angle of only forty-five

degrees. Clumps of trees grew on these slopes, which were also carpe ted

with thick grass. But the vegetation did not extend far, and a long, sandy

plain, which began at the foot of these slopes, reached to the beach

Cyrus Harding thought, not without reason, that the overplus of the lake

must overflow on this side. The excess of water furnished by the Red Creek

must also escape by some channel or other. Now the engineer had not yet

found this channel on any part of the shore already explored, that is to

say, from the mouth of the stream on the west of Prospect Heights.

The engineer now proposed to his companions to climb the slope, and to

return to the Chimneys by the heights, while exploring the northern and

eastern shores of the lake. The proposal was accepted, and in a few minutes

Herbert and Neb were on the upper plateau. Cyrus Harding, Gideon Spilett,

and Pencroft followed with more sedate steps.

The beautiful sheet of water glittered through the trees under the rays

of the sun. In this direction the country was charming. The eye feas ted on

the groups of trees. Some old trunks, bent with age, showed black ag ainst

the verdant grass which covered the ground. Crowds of brilliant cock atoos

screamed among the branches, moving prisms, hopping from one bough to

another.

The settlers instead of going directly to the north bank of the lake

made a circuit round the edge of the plateau, so as to join the mout h of

the creek on its left bank. It was a detour of more than a mile and a half.

Walking was easy, for the trees widely spread, left a considerable space

between them. The fertile zone evidently stopped at this point, and vegetation would be less vigorous in the part between the course of the

Creek and the Mercy.

Cyrus Harding and his companions walked over this new ground with great

care. Bows, arrows, and sticks with sharp iron points were their only

weapons. However, no wild beast showed itself, and it was probable that

these animals frequented rather the thick forests in the south; but the

settlers had the disagreeable surprise of seeing Top stop before a snake of

great size, measuring from fourteen to fifteen feet in length. Neb k illed

it by a blow from his stick. Cyrus Harding examined the reptile, and

declared it not venomous, for it belonged to that species of diamond

serpents which the natives of New South Wales rear. But it was possible

that others existed whose bite was mortal such as the deaf vipers wi

forked tails, which rise up under the feet, or those winged snakes, furnished with two ears, which enable them to proceed with great rapidity.

Top, the first moment of surprise over, began a reptile chase with such

eagerness, that they feared for his safety. His master called him back

directly.

The mouth of the Red Creek, at the place where it entered into the lake,

was soon reached. The explorers recognized on the opposite shore the point

which they had visited on their descent from Mount Franklin. Cyrus H arding

ascertained that the flow of water into it from the creek was considerable.

Nature must therefore have provided some place for the escape of the

overplus. This doubtless formed a fall, which, if it could be discovered,

would be of great use.

The colonists, walking apart, but not straying far from each other, began

to skirt the edge of the lake, which was very steep. The water appeared to

be full of fish, and Pencroft resolved to make some fishing-rods, so as to

try and catch some.

The northeast point was first to be doubled. It might have been supposed

that the discharge of water was at this place, for the extremity of the

lake was almost on a level with the edge of the plateau. But no sign s of

this were discovered, and the colonists continued to explore the ban \mathbf{k} ,

which, after a slight bend, descended parallel to the shore.

On this side the banks were less woody, but clumps of trees, here an d

there, added to the picturesqueness of the country. Lake Grant was viewed

waters. Top, in beating the bushes, put up flocks of birds of differ ent

kinds, which Gideon Spilett and Herbert saluted with arrows. One was hit

by the lad, and fell into some marshy grass. Top rushed forward, and

brought a beautiful swimming bird, of a slate color, short beak, ver v

developed frontal plate, and wings edged with white. It was a "coot, " the

size of a large partridge, belonging to the group of macrodactyls which

form the transition between the order of wading birds and that of palmipeds. Sorry game, in truth, and its flavor is far from pleasant . But

Top was not so particular in these things as his masters, and it was agreed

that the coot should be for his supper.

The settlers were now following the eastern bank of the lake, and they

would not be long in reaching the part which they already knew. The

engineer was much surprised at not seeing any indication of the disc harge

of water. The reporter and the sailor talked with him, and he could not

conceal his astonishment.

At this moment Top, who had been very quiet till then, gave signs of

agitation. The intelligent animal went backwards and forwards on the shore,

stopped suddenly, and looked at the water, one paw raised, as if he was

pointing at some invisible game; then he barked furiously, and was suddenly silent.

Neither Cyrus Harding nor his companions had at first paid any attention

to Top's behavior; but the dog's barking soon became so frequent that the

engineer noticed it.

"What is there, Top?" he asked.

The dog bounded towards his master, seeming to be very uneasy, and then

rushed again towards the bank. Then, all at once, he plunged into the lake.

"Here, Top!" cried Cyrus Harding, who did not like his dog to ventur e into the treacherous water.

"What's happening down there?" asked Pencroft, examining the surface of the lake.

"Top smells some amphibious creature," replied Herbert.

"An alligator, perhaps," said the reporter.

"I do not think so," replied Harding. "Alligators are only met with in regions less elevated in latitude."

Meanwhile Top had returned at his master's call, and had regained the

shore: but he could not stay quiet; he plunged in among the tall grass, and

guided by instinct, he appeared to follow some invisible being which was

slipping along under the surface of the water. However the water was calm;

not a ripple disturbed its surface. Several times the settlers stopp ed on

the bank, and observed it attentively. Nothing appeared. There was s

ome

mystery there.

The engineer was puzzled.

"Let us pursue this exploration to the end," said he.

Half an hour after they had all arrived at the southeast angle of the

lake, on Prospect Heights. At this point the examination of the bank s of

the lake was considered finished, and yet the engineer had not been able to

discover how and where the waters were discharged. "There is no doub t this

overflow exists," he repeated, and since it is not visible it must g

through the granite cliff at the west!"

"But what importance do you attach to knowing that, my dear Cyrus?" asked Gideon Spilett.

"Considerable importance," replied the engineer; "for if it flows th rough

the cliff there is probably some cavity, which it would be easy to render

habitable after turning away the water."

"But is it not possible, captain, that the water flows away at the b ottom

of the lake," said Herbert, "and that it reaches the sea by some subterranean passage?"

"That might be," replied the engineer, "and should it be so we shall be

obliged to build our house ourselves, since nature has not done it f or us."

The colonists were about to begin to traverse the plateau to return to

the Chimneys, when Top gave new signs of agitation. He barked with fury,

and before his master could restrain him, he had plunged a second ti me into

the lake.

All ran towards the bank. The dog was already more than twenty feet off.

and Cyrus was calling him back, when an enormous head emerged from the

water, which did not appear to be deep in that place.

Herbert recognized directly the species of amphibian to which the tapering head, with large eyes, and adorned with long silky mustaches,

belonged.

"A lamantin!" he cried.

It was not a lamantin, but one of that species of the order of cetac eans,

which bear the name of the "dugong," for its nostrils were open at the

upper part of its snout. The enormous animal rushed on the dog, who tried

to escape by returning towards the shore. His master could do nothin g to

save him, and before Gideon Spilett or Herbert thought of bending their

bows, Top, seized by the dugong, had disappeared beneath the water.

Neb, his iron-tipped spear in his hand, wished to go to Top's help, and attack the dangerous animal in its own element.

"No, Neb," said the engineer, restraining his courageous servant.

Meanwhile, a struggle was going on beneath the water, an inexplicable

struggle, for in his situation Top could not possibly resist; and judging

by the bubbling of the surface it must be also a terrible struggle, and

could not but terminate in the death of the dog! But suddenly, in the

middle of a foaming circle, Top reappeared. Thrown in the air by som e

unknown power, he rose ten feet above the surface of the lake, fell again

into the midst of the agitated waters, and then soon gained the shore,

without any severe wounds, miraculously saved.

Cyrus Harding and his companions could not understand it. What was not

less inexplicable was that the struggle still appeared to be going on.

Doubtless, the dugong, attacked by some powerful animal, after havin

released the dog, was fighting on its own account. But it did not la st

long. The water became red with blood, and the body of the dugong, e merging $\,$

from the sheet of scarlet which spread around, soon stranded on a little

beach at the south angle of the lake. The colonists ran towards it. The

dugong was dead. It was an enormous animal, fifteen or sixteen feet long,

and must have weighed from three to four thousand pounds. At its nec k was a

wound, which appeared to have been produced by a sharp blade.

What could the amphibious creature have been, who, by this terrible blow

had destroyed the formidable dugong? No one could tell, and much int erested

in this incident, Harding and his companions returned to the Chimney s.

Chapter 17

The next day, the 7th of May, Harding and Gideon Spilett, leaving Ne b to

prepare breakfast, climbed Prospect Heights, while Herbert and Pencr oft

ascended by the river, to renew their store of wood.

The engineer and the reporter soon reached the little beach on which the

dugong had been stranded. Already flocks of birds had attacked the $\ensuremath{\mathtt{m}}$ ass of

flesh, and had to be driven away with stones, for Cyrus wished to ke ep the

fat for the use of the colony. As to the animal's flesh it would fur nish

excellent food, for in the islands of the Malay Archipelago and else where,

it is especially reserved for the table of the native princes. But t hat was

Neb's affair.

At this moment Cyrus Harding had other thoughts. He was much interested

in the incident of the day before. He wished to penetrate the myster y of

that submarine combat, and to ascertain what monster could have give n the

dugong so strange a wound. He remained at the edge of the lake, looking,

observing; but nothing appeared under the tranquil waters, which sparkled

in the first rays of the rising sun.

At the beach, on which lay the body of the dugong, the water was tolerably shallow, but from this point the bottom of the lake sloped

gradually, and it was probable that the depth was considerable in the ϵ

center. The lake might be considered as a large center basin, which was

filled by the water from the Red Creek.

"Well, Cyrus," said the reporter, "there seems to be nothing suspicious

in this water."

"No, my dear Spilett," replied the engineer, "and I really do not kn ow how

to account for the incident of yesterday."

"I acknowledge," returned Spilett, "that the wound given this creature

is, at least, very strange, and I cannot explain either how Top was so

vigorously cast up out of the water. One could have thought that a powerful

arm hurled him up, and that the same arm with a dagger killed the dugong!"

"Yes," replied the engineer, who had become thoughtful; "there is something there that I cannot understand. But do you better understand

either, my dear Spilett, in what way I was saved myself--how I was drawn

from the waves, and carried to the downs? No! Is it not true? Now, I feel

sure that there is some mystery there, which, doubtless, we shall discover

some day. Let us observe, but do not dwell on these singular inciden

before our companions. Let us keep our remarks to ourselves, and con tinue

our work."

It will be remembered that the engineer had not as yet been able to discover the place where the surplus water escaped, but he knew it m ust

exist somewhere. He was much surprised to see a strong current at th is

place. By throwing in some bits of wood he found that it set towards the

southern angle. He followed the current, and arrived at the south point of

the lake.

There was there a sort of depression in the water, as if it was sudd enly

lost in some fissure in the ground.

Harding listened; placing his ear to the level of the lake, he very distinctly heard the noise of a subterranean fall.

"There," said he, rising, "is the discharge of the water; there, doubtless, by a passage in the granite cliff, it joins the sea, through

cavities which we can use to our profit. Well, I can find it!"

The engineer cut a long branch, stripped it of its leaves, and plung ing

it into the angle between the two banks, he found that there was a large

hole one foot only beneath the surface of the water. This hole was the

opening so long looked for in vain, and the force of the current was such

that the branch was torn from the engineer's hands and disappeared.

"There is no doubt about it now," repeated Harding. "There is the outlet,

and I will lay it open to view!"

"How?" asked Gideon Spilett.

"By lowering the level of the water of the lake three feet." "And ho w will you lower the level?"

"By opening another outlet larger than this."

"At what place, Cyrus?"

"At the part of the bank nearest the coast."

"But it is a mass of granite!" observed Spilett.

"Well," replied Cyrus Harding, "I will blow up the granite, and the water escaping, will subside, so as to lay bare this opening--"

"And make a waterfall, by falling on to the beach," added the report er.

"A fall that we shall make use of!" replied Cyrus. "Come, come!"

The engineer hurried away his companion, whose confidence in Harding was

such that he did not doubt the enterprise would succeed. And yet, ho w was

this granite wall to be opened without powder, and with imperfect instruments? Was not this work upon which the engineer was so bent a bove

their strength?

When Harding and the reporter entered the Chimneys, they found Herbert

and Pencroft unloading their raft of wood.

"The woodmen have just finished, captain." said the sailor, laughing, "and when you want masons--"

"Masons, -- no, but chemists, " replied the engineer.

"Yes," added the reporter, "we are going to blow up the island--"

"Blow up the island?" cried Pencroft.

"Part of it, at least," replied Spilett.

"Listen to me, my friends," said the engineer. And he made known to them $\,$

the result of his observations.

According to him, a cavity, more or less considerable, must exist in the

mass of granite which supported Prospect Heights, and he intended to

penetrate into it. To do this, the opening through which the water rushed

must first be cleared, and the level lowered by making a larger outl et.

Therefore an explosive substance must be manufactured, which would make a

deep trench in some other part of the shore. This was what Harding w

going to attempt with the minerals which nature placed at his dispos al.

It is useless to say with what enthusiasm all, especially Pencroft, received this project. To employ great means, open the granite, crea te a

cascade, that suited the sailor. And he would just as soon be a chem ist as

a mason or bootmaker, since the engineer wanted chemicals. He would be all

that they liked, "even a professor of dancing and deportment," said he to

Neb, if that was ever necessary.

Neb and Pencroft were first of all told to extract the grease from the

dugong, and to keep the flesh, which was destined for food. Such per fect

confidence had they in the engineer, that they set out directly, wit hout

even asking a question. A few minutes after them, Cyrus Harding, Herbert,

and Gideon Spilett, dragging the hurdle, went towards the vein of co als,

where those shistose pyrites abound which are met with in the most recent

transition soil, and of which Harding had already found a specimen. All the

day being employed in carrying a quantity of these stones to the Chimneys,

by evening they had several tons.

The next day, the 8th of May, the engineer began his manipulations. These

shistose pyrites being composed principally of coal, flint, alumina, and

sulphuret of iron--the latter in excess--it was necessary to separat e the

sulphuret of iron, and transform it into sulphate as rapidly as possible.

The sulphate obtained, the sulphuric acid could then be extracted.

This was the object to be attained. Sulphuric acid is one of the age nts

the most frequently employed, and the manufacturing importance of a nation

can be measured by the consumption which is made of it. This acid would

later be of great use to the settlers, in the manufacturing of candles,

tanning skins, etc., but this time the engineer reserved it for another $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

use.

Cyrus Harding chose, behind the Chimneys, a site where the ground was

perfectly level. On this ground he placed a layer of branches and ch opped

wood, on which were piled some pieces of shistose pyrites, buttresse d one

against the other, the whole being covered with a thin layer of pyrites,

previously reduced to the size of a nut.

This done, they set fire to the wood, the heat was communicated to the

shist, which soon kindled, since it contains coal and sulphur. Then new

layers of bruised pyrites were arranged so as to form an immense heap, the

exterior of which was covered with earth and grass, several air-hole s being

left, as if it was a stack of wood which was to be carbonized to mak e

charcoal.

They then left the transformation to complete itself, and it would not

take less than ten or twelve days for the sulphuret of iron to be changed

to sulphate of iron and the alumina into sulphate of alumina, two equally

soluble substances, the others, flint, burnt coal, and cinders, not being

so.

While this chemical work was going on, Cyrus Harding proceeded with other

operations, which were pursued with more than zeal, --it was eagernes s.

Neb and Pencroft had taken away the fat from the dugong, and placed it in

large earthen pots. It was then necessary to separate the glycerine

from

the fat by saponifying it. Now, to obtain this result, it had to be treated

either with soda or lime. In fact, one or other of these substances, after

having attacked the fat, would form a soap by separating the glycerine, and

it was just this glycerine which the engineer wished to obtain. There was

no want of lime, only treatment by lime would give calcareous soap, insoluble, and consequently useless, while treatment by soda would furnish,

on the contrary, a soluble soap, which could be put to domestic use. Now, a

practical man, like Cyrus Harding, would rather try to obtain soda. Was

this difficult? No; for marine plants abounded on the shore, glass-w ort.

ficoides, and all those fucaceae which form wrack. A large quantity of

these plants was collected, first dried, then burnt in holes in the open

air. The combustion of these plants was kept up for several days, an d the

result was a compact gray mass, which has been long known under the name of

"natural soda."

This obtained, the engineer treated the fat with soda, which gave bo th a soluble soap and that neutral substance, glycerine.

But this was not all. Cyrus Harding still needed, in view of his fut ure

preparation, another substance, nitrate of potash, which is better k nown

under the name of salt niter, or of saltpeter.

Cyrus Harding could have manufactured this substance by treating the

carbonate of potash, which would be easily extracted from the cinder s of

the vegetables, by azotic acid. But this acid was wanting, and he would

have been in some difficulty, if nature had not happily furnished the

saltpeter, without giving them any other trouble than that of pickin g it

up. Herbert found a vein of it at the foot of Mount Franklin, and they had

nothing to do but purify this salt.

These different works lasted a week. They were finished before the transformation of the sulphuret into sulphate of iron had been accomplished. During the following days the settlers had time to construct

a furnace of bricks of a particular arrangement, to serve for the distillation of the sulphate or iron when it had been obtained. All this

was finished about the 18th of May, nearly at the time when the chemical

transformation terminated. Gideon Spilett, Herbert, Neb, and Pencrof t.

skillfully directed by the engineer, had become most clever workmen. Before

all masters, necessity is the one most listened to, and who teaches the

best.

When the heap of pyrites had been entirely reduced by fire, the result of

the operation, consisting of sulphate of iron, sulphate of alumina, flint,

remains of coal, and cinders was placed in a basinful of water. They

stirred this mixture, let it settle, then decanted it, and obtained a clear

liquid containing in solution sulphate of iron and sulphate of alumi na, the

other matters remaining solid, since they are insoluble. Lastly, this

liquid being partly evaporated, crystals of sulphate of iron were deposited, and the not evaporated liquid, which contained the sulphate of

alumina, was thrown away.

Cyrus Harding had now at his disposal a large quantity of these sulp hate

of iron crystals, from which the sulphuric acid had to be extracted. The

making of sulphuric acid is a very expensive manufacture. Considerab le

works are necessary--a special set of tools, an apparatus of platina

leaden chambers, unassailable by the acid, and in which the transformation

is performed, etc. The engineer had none of these at his disposal, but he

knew that, in Bohemia especially, sulphuric acid is manufactured by very

simple means, which have also the advantage of producing it to a superior

degree of concentration. It is thus that the acid known under the name of

Nordhausen acid is made.

To obtain sulphuric acid, Cyrus Harding had only one operation to make,

to calcine the sulphate of iron crystals in a closed vase, so that the

sulphuric acid should distil in vapor, which vapor, by condensation, would

produce the acid.

The crystals were placed in pots, and the heat from the furnace would

distil the sulphuric acid. The operation was successfully completed, and on

the 20th of May, twelve days after commencing it, the engineer was the

possessor of the agent which later he hoped to use in so many differ ent ways.

Now, why did he wish for this agent? Simply to produce azotic acid; and

that was easy, since saltpeter, attacked by sulphuric acid, gives az otic,

or nitric, acid by distillation.

But, after all, how was he going to employ this azotic acid? His companions were still ignorant of this, for he had not informed them of the

result at which he aimed.

However, the engineer had nearly accomplished his purpose, and by a last

operation he would procure the substance which had given so much trouble.

Taking some azotic acid, he mixed it with glycerine, which had been previously concentrated by evaporation, subjected to the water-bath, and he

obtained, without even employing a refrigerant mixture, several pint s of an

oily yellow mixture.

This last operation Cyrus Harding had made alone, in a retired place, at

a distance from the Chimneys, for he feared the danger of an explosi on, and

when he showed a bottle of this liquid to his friends, he contented himself

with saying, --

"Here is nitro-glycerine!"

It was really this terrible production, of which the explosive power is

perhaps tenfold that of ordinary powder, and which has already cause d so

many accidents. However, since a way has been found to transform it into

dynamite, that is to say, to mix with it some solid substance, clay or

sugar, porous enough to hold it, the dangerous liquid has been used with

some security. But dynamite was not yet known at the time when the s

ettlers worked on Lincoln Island.

"And is it that liquid that is going to blow up our rocks?" said Pen croft incredulously.

"Yes, my friend," replied the engineer, "and this nitro-glycerine will

produce so much the more effect, as the granite is extremely hard, a nd will

oppose a greater resistance to the explosion."

"And when shall we see this, captain?"

"To-morrow, as soon as we have dug a hole for the mine, replied the engineer."

The next day, the 21st of May, at daybreak, the miners went to the point

which formed the eastern shore of Lake Grant, and was only five hund red

feet from the coast. At this place, the plateau inclined downwards from the

waters, which were only restrained by their granite case. Therefore, if

this case was broken, the water would escape by the opening and form a

stream, which, flowing over the inclined surface of the plateau, would rush

on to the beach. Consequently, the level of the lake would be greatly

lowered, and the opening where the water escaped would be exposed, which

was their final aim.

Under the engineer's directions, Pencroft, armed with a pickaxe, whi ch he

handled skillfully and vigorously, attacked the granite. The hole was made

on the point of the shore, slanting, so that it should meet a much lower

level than that of the water of the lake. In this way the explosive force,

by scattering the rock, would open a large place for the water to rush out.

The work took some time, for the engineer, wishing to produce a grea t

effect, intended to devote not less than seven quarts of nitro-glyce rine to

the operation. But Pencroft, relieved by Neb, did so well, that towards

four o'clock in the evening, the mine was finished.

Now the question of setting fire to the explosive substance was rais

ed.

Generally, nitro-glycerine is ignited by caps of fulminate, which in

bursting cause the explosion. A shock is therefore needed to produce the

explosion, for, simply lighted, this substance would burn without exploding.

Cyrus Harding could certainly have fabricated a percussion cap. In default of fulminate, he could easily obtain a substance similar to guncotton, since he had azotic acid at his disposal. This substance,

pressed in a cartridge, and introduced among the nitro-glycerine, would

burst by means of a fuse, and cause the explosion.

But Cyrus Harding knew that nitro-glycerine would explode by a shock . He

resolved to employ this means, and try another way, if this did not succeed.

In fact, the blow of a hammer on a few drops of nitro-glycerine, spr ead

out on a hard surface, was enough to create an explosion. But the operator

could not be there to give the blow, without becoming a victim to the

operation. Harding, therefore, thought of suspending a mass of iron,

weighing several pounds, by means of a fiber, to an upright just above the

mine. Another long fiber, previously impregnated with sulphur, was a ttached

to the middle of the first, by one end, while the other lay on the ground

several feet distant from the mine. The second fiber being set on fire, it

would burn till it reached the first. This catching fire in its turn , would

break, and the mass of iron would fall on the nitro-glycerine. This apparatus being then arranged, the engineer, after having sent his companions to a distance, filled the hole, so that the nitro-glycerine was

on a level with the opening; then he threw a few drops of it on the surface

of the rock, above which the mass of iron was already suspended.

This done, Harding lit the end of the sulphured fiber, and leaving the

place, he returned with his companions to the Chimneys.

The fiber was intended to burn five and twenty minutes, and, in fact

five and twenty minutes afterwards a most tremendous explosion was heard.

The island appeared to tremble to its very foundation. Stones were

projected in the air as if by the eruption of a volcano. The shock p roduced

by the displacing of the air was such, that the rocks of the Chimney s

shook. The settlers, although they were more than two miles from the mine,

were thrown on the ground.

They rose, climbed the plateau, and ran towards the place where the bank

of the lake must have been shattered by the explosion.

A cheer escaped them! A large rent was seen in the granite! A rapid stream of water rushed foaming across the plateau and dashed down a height

of three hundred feet on to the beach!

Chapter 18

Cyrus Harding's project had succeeded, but, according to his usual h abit he

showed no satisfaction; with closed lips and a fixed look, he remain ed

motionless. Herbert was in ecstasies, Neb bounded with joy, Pencroft nodded

his great head, murmuring these words, --

"Come, our engineer gets on capitally!"

The nitro-glycerine had indeed acted powerfully. The opening which i t had

made was so large that the volume of water which escaped through this new

outlet was at least treble that which before passed through the old one.

The result was, that a short time after the operation the level of the lake

would be lowered two feet, or more.

The settlers went to the Chimneys to take some pickaxes, iron-tipped

spears, string made of fibers, flint and steel; they then returned to the

plateau, Top accompanying them.

On the way the sailor could not help saying to the engineer, --

"Don't you think, captain, that by means of that charming liquid you have

made, one could blow up the whole of our island?"

"Without any doubt, the island, continents, and the world itself," replied the engineer. "It is only a question of quantity."

"Then could you not use this nitro-glycerine for loading firearms?"

asked the sailor.

"No, Pencroft; for it is too explosive a substance. But it would be easy to make some guncotton, or even ordinary powder, as we have azotic a cid, saltpeter, sulphur, and coal. Unhappily, it is the guns which we have not got.

"Oh, captain," replied the sailor, "with a little determination--"

Pencroft had erased the word "impossible" from the dictionary of Lin coln Island.

The settlers, having arrived at Prospect Heights, went immediately towards that point of the lake near which was the old opening now uncovered. This outlet had now become practicable, since the water no longer rushed through it, and it would doubtless be easy to explore

longer rushed through it, and it would doubtless be easy to explore the interior.

In a few minutes the settlers had reached the lower point of the lak e, and a glance showed them that the object had been attained.

In fact, in the side of the lake, and now above the surface of the water,

appeared the long-looked-for opening. A narrow ridge, left bare by the

retreat of the water, allowed them to approach it. This orifice was nearly

twenty feet in width, but scarcely two in height. It was like the mouth of

a drain at the edge of the pavement, and therefore did not offer an easy

passage to the settlers; but Neb and Pencroft, taking their pickaxes, soon

made it of a suitable height.

The engineer then approached, and found that the sides of the openin g, in

its upper part at least, had not a slope of more than from thirty to

thirty-five degrees. It was therefore practicable, and, provided that the

declivity did not increase, it would be easy to descend even to the level

of the sea. If then, as was probable, some vast cavity existed in the

interior of the granite, it might, perhaps, be of great use.

"Well, captain, what are we stopping for?" asked the sailor, impatie

nt to

enter the narrow passage. You see Top has got before us!"

"Very well," replied the engineer. "But we must see our way. Neb, go and cut some resinous branches."

Neb and Herbert ran to the edge of the lake, shaded with pines and o

green trees, and soon returned with some branches, which they made into

torches. The torches were lighted with flint and steel, and Cyrus Harding

leading, the settlers ventured into the dark passage, which the over plus of

the lake had formerly filled.

Contrary to what might have been supposed, the diameter of the passa ge

increased as the explorers proceeded, so that they very soon were ab le to

stand upright. The granite, worn by the water for an infinite time, was

very slippery, and falls were to be dreaded. But the settlers were a

attached to each other by a cord, as is frequently done in ascending

mountains. Happily some projections of the granite, forming regular steps,

made the descent less perilous. Drops, still hanging from the rocks, shone

here and there under the light of the torches, and the explorers gue ssed

that the sides were clothed with innumerable stalactites. The engine er

examined this black granite. There was not a stratum, not a break in it.

The mass was compact, and of an extremely close grain. The passage dated,

then, from the very origin of the island. It was not the water which little

by little had hollowed it. Pluto and not Neptune had bored it with h is own

hand, and on the wall traces of an eruptive work could be distinguis hed,

which all the washing of the water had not been able totally to efface.

The settlers descended very slowly. They could not but feel a certain

awe, in this venturing into these unknown depths, for the first time

visited by human beings. They did not speak, but they thought; and the

thought came to more than one, that some polypus or other gigantic cephalopod might inhabit the interior cavities, which were in commun

ication

with the sea. However, Top kept at the head of the little band, and they

could rely on the sagacity of the dog, who would not fail to give the alarm

if there was any need for it.

After having descended about a hundred feet, following a winding road,

Harding who was walking on before, stopped, and his companions came up with

him. The place where they had halted was wider, so as to form a cave rn of

moderate dimensions. Drops of water fell from the vault, but that did not

prove that they oozed through the rock. They were simply the last tr aces

left by the torrent which had so long thundered through this cavity, and

the air there was pure though slightly damp, but producing no mephit ic exhalation.

"Well, my dear Cyrus," said Gideon Spilett, "here is a very secure retreat, well hid in the depths of the rock, but it is, however, uninhabitable."

"Why uninhabitable?" asked the sailor.

"Because it is too small and too dark."

"Couldn't we enlarge it, hollow it out, make openings to let in ligh t and air?" replied Pencroft, who now thought nothing impossible.

"Let us go on with our exploration," said Cyrus Harding. "Perhaps lo wer down, nature will have spared us this labor."

"We have only gone a third of the way," observed Herbert.

"Nearly a third," replied Harding, "for we have descended a hundred feet from the opening, and it is not impossible that a hundred feet farth er down--"

"Where is Top?" asked Neb, interrupting his master.

They searched the cavern, but the dog was not there.

"Most likely he has gone on," said Pencroft.

"Let us join him," replied Harding.

The descent was continued. The engineer carefully observed all the

deviations of the passage, and notwithstanding so many detours, he could

easily have given an account of its general direction, which went to wards the sea.

The settlers had gone some fifty feet farther, when their attention was

attracted by distant sounds which came up from the depths. They stop ped and

listened. These sounds, carried through the passage as through an ac oustic

tube, came clearly to the ear.

"That is Top barking!" cried Herbert.

"Yes," replied Pencroft, "and our brave dog is barking furiously!"

"We have our iron-tipped spears," said Cyrus Harding. "Keep on your quard, and forward!"

"It is becoming more and more interesting," murmured Gideon Spilett in

the sailor's ear, who nodded. Harding and his companions rushed to the help

of their dog. Top's barking became more and more perceptible, and it seemed

strangely fierce. Was he engaged in a struggle with some animal whose

retreat he had disturbed? Without thinking of the danger to which theey

might be exposed, the explorers were now impelled by an irresistible

curiosity, and in a few minutes, sixteen feet lower they rejoined To p.

There the passage ended in a vast and magnificent cavern.

Top was running backwards and forwards, barking furiously. Pencroft and

Neb, waving their torches, threw the light into every crevice; and a t the

same time, Harding, Gideon Spilett, and Herbert, their spears raised, were

ready for any emergency which might arise. The enormous cavern was empty.

The settlers explored it in every direction. There was nothing there , not

an animal, not a human being; and yet Top continued to bark. Neither caresses nor threats could make him be silent.

"There must be a place somewhere, by which the waters of the lake re ached

the sea, " said the engineer.

"Of course," replied Pencroft, "and we must take care not to tumble into a hole."

"Go, Top, go!" cried Harding.

The dog, excited by his master's words, ran towards the extremity of the cavern, and there redoubled his barking.

They followed him, and by the light of the torches, perceived the mouth

of a regular well in the granite. It was by this that the water esca ped;

and this time it was not an oblique and practicable passage, but a perpendicular well, into which it was impossible to venture.

The torches were held over the opening: nothing could be seen. Harding

took a lighted branch, and threw it into the abyss. The blazing resin,

whose illuminating power increased still more by the rapidity of its fall,

lighted up the interior of the well, but yet nothing appeared. The flame

then went out with a slight hiss, which showed that it had reached the

water, that is to say, the level of the sea.

The engineer, calculating the time employed in its fall, was able to

calculate the depth of the well, which was found to be about ninety feet.

The floor of the cavern must thus be situated ninety feet above the level of the sea.

"Here is our dwelling," said Cyrus Harding.

"But it was occupied by some creature," replied Gideon Spilett, whose curiosity was not yet satisfied.

"Well, the creature, amphibious or otherwise, has made off through this opening," replied the engineer, "and has left the place for us."

"Never mind," added the sailor, "I should like very much to be Top just

for a quarter of an hour, for he doesn't bark for nothing!"

Cyrus Harding looked at his dog, and those of his companions who wer e near him might have heard him murmur these words,--

"Yes, I believe that Top knows more than we do about a great many things."

However, the wishes of the settlers were for the most part satisfied

Chance, aided by the marvelous sagacity of their leader, had done the $^{\rm m}$

great service. They had now at their disposal a vast cavern, the siz e of

which could not be properly calculated by the feeble light of their torches, but it would certainly be easy to divide it into rooms, by means

of brick partitions, or to use it, if not as a house, at least as a spacious apartment. The water which had left it could not return. The place was free.

Two difficulties remained; firstly, the possibility of lighting this

excavation in the midst of solid rock; secondly, the necessity of rendering

the means of access more easy. It was useless to think of lighting it from

above, because of the enormous thickness of the granite which composed the

ceiling; but perhaps the outer wall next the sea might be pierced. Cyrus

Harding, during the descent, had roughly calculated its obliqueness, and

consequently the length of the passage, and was therefore led to bel ieve

that the outer wall could not be very thick. If light was thus obtained, so

would a means of access, for it would be as easy to pierce a door as

windows, and to establish an exterior ladder.

Harding made known his ideas to his companions.

"Then, captain, let us set to work!" replied Pencroft. "I have my pickaxe, and I shall soon make my way through this wall. Where shall I strike?"

"Here," replied the engineer, showing the sturdy sailor a considerab le

recess in the side, which would much diminish the thickness.

Pencroft attacked the granite, and for half an hour, by the light of the

torches, he made the splinters fly around him. Neb relieved him, the n

Spilett took Neb's place.

This work had lasted two hours, and they began to fear that at this spot

the wall would not yield to the pickaxe, when at a last blow given b \mathbf{y}

Gideon Spilett, the instrument, passing through the rock, fell outsi de.

"Hurrah! hurrah!" cried Pencroft.

The wall only measured there three feet in thickness.

Harding applied his eye to the aperture, which overlooked the ground from

a height of eighty feet. Before him was extended the sea-coast, the islet,

and beyond the open sea.

Floods of light entered by this hole, inundating the splendid cavern and

producing a magic effect! On its left side it did not measure more t han

thirty feet in height and breadth, but on the right it was enormous, and

its vaulted roof rose to a height of more than eighty feet.

In some places granite pillars, irregularly disposed, supported the vaulted roof, as those in the nave of a cathedral, here forming late ral

piers, there elliptical arches, adorned with pointed moldings, losin q

themselves in dark bays, amid the fantastic arches of which glimpses could

be caught in the shade, covered with a profusion of projections form ed like

so many pendants. This cavern was a picturesque mixture of all the styles

of Byzantine, Roman, or Gothic architecture ever produced by the han d of

man. And yet this was only the work of nature. She alone had hollowed this

fairy Aihambra in a mass of granite.

The settlers were overwhelmed with admiration. Where they had only expected to find a narrow cavity, they had found a sort of marvelous

palace, and Neb had taken off his hat, as if he had been transported into a temple!

Cries of admiration issued from every mouth. Hurrahs resounded, and the

echo was repeated again and again till it died away in the dark nave s.

"Ah, my friends!" exclaimed Cyrus Harding, "when we have lighted the

interior of this place, and have arranged our rooms and storehouses in the

left part, we shall still have this splendid cavern, which we will m
ake our
study and our museum!"

"And we will call it?--" asked Herbert.

"Granite House," replied Harding; a name which his companions again saluted with a cheer.

The torches were now almost consumed, and as they were obliged to return

by the passage to reach the summit of the plateau, it was decided to put

off the work necessary for the arrangement of their new dwelling til ${\tt l}$ the

next day.

Before departing, Cyrus Harding leaned once more over the dark well, which descended perpendicularly to the level of the sea. He listened attentively. No noise was heard, not even that of the water, which the undulations of the surge must sometimes agitate in its depths. A flaming branch was again thrown in. The sides of the well were lighted up for an instant, but as at the first time, nothing suspicious was seen.

If some marine monster had been surprised unawares by the retreat of the water, he would by this time have regained the sea by the subterrane an passage, before the new opening had been offered to him.

Meanwhile, the engineer was standing motionless, his eyes fixed on the gulf, without uttering a word.

The sailor approached him, and touching his arm, "Captain!" said he.

"What do you want, my friend?" asked the engineer, as if he had returned from the land of dreams.

"The torches will soon go out."

"Forward!" replied Cyrus Harding.

The little band left the cavern and began to ascend through the dark passage. Top closed the rear, still growling every now and then. The ascent was painful enough. The settlers rested a few minutes in the upper g rotto,

which made a sort of landing-place halfway up the long granite stair case.

Then they began to climb again.

Soon fresher air was felt. The drops of water, dried by evaporation, no

longer sparkled on the walls. The flaring torches began to grow dim. The

one which Neb carried went out, and if they did not wish to find the ir way

in the dark, they must hasten.

This was done, and a little before four o'clock, at the moment when the

sailor's torch went out in its turn, Cyrus Harding and his companion s

passed out of the passage.

Chapter 19

The next day, the 22nd of May, the arrangement of their new dwelling was

commenced. In fact, the settlers longed to exchange the insufficient

shelter of the Chimneys for this large and healthy retreat, in the midst of

solid rock, and sheltered from the water both of the sea and sky. Their

former dwelling was not, however, to be entirely abandoned, for the engineer intended to make a manufactory of it for important works. C yrus

Harding's first care was to find out the position of the front of Gr anite

House from the outside. He went to the beach, and as the pickaxe whe n it

escaped from the hands of the reporter must have fallen perpendicularly to

the foot of the cliff, the finding it would be sufficient to show the place

where the hole had been pierced in the granite.

The pickaxe was easily found, and the hole could be seen in a perpendicular line above the spot where it was stuck in the sand. So me rock

pigeons were already flying in and out of the narrow opening; they evidently thought that Granite House had been discovered on purpose for

them. It was the engineer's intention to divide the right portion of the

cavern into several rooms, preceded by an entrance passage, and to light it

by means of five windows and a door, pierced in the front. Pencroft was

much pleased with the five windows, but he could not understand the use of

the door, since the passage offered a natural staircase, through whi ch it would always be easy to enter Granite House.

"My friend," replied Harding, "if it is easy for us to reach our dwe lling

by this passage, it will be equally easy for others besides us. I me an, on

the contrary, to block up that opening, to seal it hermetically, and , if it

is necessary, to completely hide the entrance by making a dam, and thus

causing the water of the lake to rise."

"And how shall we get in?" asked the sailor.

"By an outside ladder," replied Cyrus Harding, "a rope ladder, which, once drawn up, will render access to our dwelling impossible."

"But why so many precautions?" asked Pencroft. "As yet we have seen no

dangerous animals. As to our island being inhabited by natives, I do $\ensuremath{\text{n't}}$

believe it!"

"Are you quite sure of that, Pencroft?" asked the engineer, looking at the sailor.

"Of course we shall not be quite sure, till we have explored it in e very direction," replied Pencroft.

"Yes," said Harding, "for we know only a small portion of it as yet. But

at any rate, if we have no enemies in the interior, they may come from the

exterior, for parts of the Pacific are very dangerous. We must be provided $\dot{}$

against every contingency."

Cyrus Harding spoke wisely; and without making any further objection , Pencroft prepared to execute his orders.

The front of Granite House was then to be lighted by five windows and a

door, besides a large bay window and some smaller oval ones, which $\ensuremath{\mathbf{w}}$ ould

admit plenty of light to enter into the marvelous nave which was to be

their chief room. This facade, situated at a height of eighty feet a bove

the ground, was exposed to the east, and the rising sun saluted it with its

first rays. It was found to be just at that part of the cliff which was

between the projection at the mouth of the Mercy and a perpendicular line

traced above the heap of rocks which formed the Chimneys. Thus the winds

from the northeast would only strike it obliquely, for it was protected by

the projection. Besides, until the window-frames were made, the engineer

meant to close the openings with thick shutters, which would prevent either

wind or rain from entering, and which could be concealed in need.

The first work was to make the openings. This would have taken too long

with the pickaxe alone, and it is known that Harding was an ingenious man.

He had still a quantity of nitro-glycerine at his disposal, and he e mployed

it usefully. By means of this explosive substance the rock was broke n open

at the very places chosen by the engineer. Then, with the pickaxe and

spade, the windows and doors were properly shaped, the jagged edges were

smoothed off, and a few days alter the beginning of the work, Granit e House

was abundantly lighted by the rising sun, whose rays penetrated into its

most secret recesses. Following the plan proposed by Cyrus Harding, the

space was to be divided into five compartments looking out on the se a; to

the right, an entry with a door, which would meet the ladder; then a

kitchen, thirty feet long; a dining-room, measuring forty feet; a sleeping-

room, of equal size; and lastly, a "Visitor's room," petitioned for by

Pencroft, and which was next to the great hall. These rooms, or rath er this

suite of rooms, would not occupy all the depth of the cave. There would be

also a corridor and a storehouse, in which their tools, provisions, and

stores would be kept. All the productions of the island, the flora a swell

as the fauna, were to be there in the best possible state of preserv ation,

and completely sheltered from the damp. There was no want of space, so that

each object could be methodically arranged. Besides, the colonists h ad

still at their disposal the little grotto above the great cavern, which was

like the garret of the new dwelling.

This plan settled, it had only to be put into execution. The miners became brickmakers again, then the bricks were brought to the foot of

Granite House. Till then, Harding and his companions had only entere d the

cavern by the long passage. This mode of communication obliged them first

to climb Prospect Heights, making a detour by the river's bank, and then to

descend two hundred feet through the passage, having to climb as far when

they wished to return to the plateau. This was a great loss of time, and

was also very fatiguing. Cyrus Harding, therefore, resolved to proce ed

without any further delay to the fabrication of a strong rope ladder

which, once raised, would render Granite House completely inaccessib

This ladder was manufactured with extreme care, and its uprights, formed

of the twisted fibers of a species of cane, had the strength of a thick

cable. As to the rounds, they were made of a sort of red cedar, with light,

strong branches; and this apparatus was wrought by the masterly hand of

Pencroft.

Other ropes were made with vegetable fibers, and a sort of crane with a

tackle was fixed at the door. In this way bricks could easily be rai sed

into Granite House. The transport of the materials being thus simplified,

the arrangement of the interior could begin immediately. There was no want

of lime, and some thousands of bricks were there ready to be used. The

framework of the partitions was soon raised, very roughly at first, and in

a short time, the cave was divided into rooms and storehouses, according to $\bar{\ }$

the plan agreed upon.

These different works progressed rapidly under the direction of the engineer, who himself handled the hammer and the trowel. No labor ca

amiss to Cyrus Harding, who thus set an example to his intelligent a nd

zealous companions. They worked with confidence, even gaily, Pencrof t

always having some joke to crack, sometimes carpenter, sometimes rop

e-

maker, sometimes mason, while he communicated his good humor to all the

members of their little world. His faith in the engineer was complet e;

nothing could disturb it. He believed him capable of undertaking any thing

and succeeding in everything. The question of boots and clothes--ass uredly

a serious question, -- that of light during the winter months, utilizing the

fertile parts of the island, transforming the wild flora into cultiv ated

flora, it all appeared easy to him; Cyrus Harding helping, everythin g would

be done in time. He dreamed of canals facilitating the transport of the

riches of the ground; workings of quarries and mines; machines for every

industrial manufacture; railroads; yes, railroads! of which a network would

certainly one day cover Lincoln Island.

The engineer let Pencroft talk. He did not put down the aspirations of

this brave heart. He knew how communicable confidence is; he even smiled to

hear him speak, and said nothing of the uneasiness for the future which he

felt. In fact, in that part of the Pacific, out of the course of ves sels,

it was to be feared that no help would ever come to them. It was on themselves, on themselves alone, that the settlers must depend, for the

distance of Lincoln Island from all other land was such, that to haz ard

themselves in a boat, of a necessarily inferior construction, would be a

serious and perilous thing.

"But," as the sailor said, "they quite took the wind out of the sail s of

the Robinsons, for whom everything was done by a miracle."

In fact, they were energetic; an energetic man will succeed where an indolent one would vegetate and inevitably perish.

Herbert distinguished himself in these works. He was intelligent and

active; understanding quickly, he performed well; and Cyrus Harding became

more and more attached to the boy. Herbert had a lively and reverent love

for the engineer. Pencroft saw the close sympathy which existed between the

two, but he was not in the least jealous. Neb was Neb: he was what he would

be always, courage, zeal, devotion, self-denial personified. He had the

same faith in his master that Pencroft had, but he showed it less vehemently. When the sailor was enthusiastic, Neb always looked as i f he

would say, "Nothing could be more natural." Pencroft and he were gre at

friends.

As to Gideon Spilett, he took part in the common work, and was not less

skilful in it than his companions, which always rather astonished the

sailor. A "journalist," clever, not only in understanding, but in performing everything.

The ladder was finally fixed on the 28th of May. There were not less than

a hundred rounds in this perpendicular height of eighty feet. Harding had

been able, fortunately, to divide it in two parts, profiting by an overhanging of the cliff which made a projection forty feet above the

ground. This projection, carefully leveled by the pickaxe, made a so rt of

platform, to which they fixed the first ladder, of which the oscilla tion

was thus diminished one-half, and a rope permitted it to be raised to the

level of Granite House. As to the second ladder, it was secured both at its

lower part, which rested on the projection, and at its upper end, which was

fastened to the door. In short the ascent had been made much easier.

Besides, Cyrus Harding hoped later to establish an hydraulic apparatus,

which would avoid all fatigue and loss of time, for the inhabitants of

Granite House.

The settlers soon became habituated to the use of this ladder. They were

light and active, and Pencroft, as a sailor, accustomed to run up the masts

and shrouds, was able to give them lessons. But it was also necessary to

give them to Top. The poor dog, with his four paws, was not formed f or this

sort of exercise. But Pencroft was such a zealous master, that Top e nded by

properly performing his ascents, and soon mounted the ladder as read ily as

his brethren in the circus. It need not be said that the sailor was

proud

of his pupil. However, more than once Pencroft hoisted him on his back,

which Top never complained of.

It must be mentioned here, that during these works, which were actively

conducted, for the bad season was approaching, the alimentary questi on was

not neglected. Every day, the reporter and Herbert, who had been vot ed

purveyors to the colony, devoted some hours to the chase. As yet, they only

hunted in Jacamar Wood, on the left of the river, because, for want of a

bridge or boat, the Mercy had not yet been crossed. All the immense woods,

to which the name of the Forests of the Far West had been given, wer e not

explored. They reserved this important excursion for the first fine days of

the next spring. But Jacamar Wood was full of game; kangaroos and bo ars

abounded, and the hunters iron-tipped spears and bows and arrows did

wonders. Besides, Herbert discovered towards the southwest point of the

lagoon a natural warren, a slightly damp meadow, covered with willow s and

aromatic herbs which scented the air, such as thyme, basil, savory, all the

sweet-scented species of the labiated plants, which the rabbits appeared to

be particularly fond of.

On the reporter observing that since the table was spread for the rabbits, it was strange that the rabbits themselves should be wantin g, the

two sportsmen carefully explored the warren. At any rate, it produce d an

abundance of useful plants, and a naturalist would have had a good opportunity of studying many specimens of the vegetable kingdom. Her bert

gathered several shoots of the basil, rosemary, balm, betony, etc., which

possess different medicinal properties, some pectoral, astringent, febrifuge, others anti-spasmodic, or anti-rheumatic. When, afterward s,

Pencroft asked the use of this collection of herbs, --

"For medicine," replied the lad, "to treat us when we are ill."

"Why should we be ill, since there are no doctors in the island?" as ked

Pencroft quite seriously.

There was no reply to be made to that, but the lad went on with his collection all the same, and it was well received at Granite House. Besides

these medicinal herbs, he added a plant known in North America as "O swego

tea, " which made an excellent beverage.

At last, by searching thoroughly, the hunters arrived at the real si te of

the warren. There the ground was perforated like a sieve.

"Here are the burrows!" cried Herbert.

"Yes," replied the reporter, "so I see."

"But are they inhabited?"

"That is the question."

This was soon answered. Almost immediately, hundreds of little animals,

similar to rabbits, fled in every direction, with such rapidity that even

Top could not overtake them. Hunters and dog ran in vain; these rode nts

escaped them easily. But the reporter resolved not to leave the place,

until he had captured at least half-a-dozen of the quadrupeds. He wi shed to

stock their larder first, and domesticate those which they might tak e

later. It would not have been difficult to do this, with a few snare s

stretched at the openings of the burrows. But at this moment they had

neither snares, nor anything to make them of. They must, therefore, be

satisfied with visiting each hole, and rummaging in it with a stick, hoping

by dint of patience to do what could not be done in any other way.

At last, after half an hour, four rodents were taken in their holes. They

were similar to their European brethren, and are commonly known by the name

of American rabbits.

This produce of the chase was brought back to Granite House, and figured

at the evening repast. The tenants of the warren were not at all to be

despised, for they were delicious. It was a valuable resource of the

colony, and it appeared to be inexhaustible.

On the 31st of May the partitions were finished. The rooms had now o

nly

to be furnished, and this would be work for the long winter days. A chimney

was established in the first room, which served as a kitchen. The pipe

destined to conduct the smoke outside gave some trouble to these ama teur

bricklayers. It appeared simplest to Harding to make it of brick clay; as

creating an outlet for it to the upper plateau was not to be thought of, a

hole was pierced in the granite above the window of the kitchen, and the

pipe met it like that of an iron stove. Perhaps the winds which blew

directly against the facade would make the chimney smoke, but these winds

were rare, and besides, Master Neb, the cook, was not so very particular

about that.

When these interior arrangements were finished, the engineer occupie d

himself in blocking up the outlet by the lake, so as to prevent any access

by that way. Masses of rock were rolled to the entrance and strongly

cemented together. Cyrus Harding did not yet realize his plan of drowning

this opening under the waters of the lake, by restoring them to their

former level by means of a dam. He contented himself with hiding the

obstruction with grass and shrubs, which were planted in the interst ices of

the rocks, and which next spring would sprout thickly. However, he u sed the

waterfall so as to lead a small stream of fresh water to the new dwe lling.

A little trench, made below their level, produced this result; and this

derivation from a pure and inexhaustible source yielded twenty-five or

thirty gallons a day. There would never be any want of water at Gran ite

House. At last all was finished, and it was time, for the bad season was

near. Thick shutters closed the windows of the facade, until the engineer

had time to make glass.

Gideon Spilett had very artistically arranged on the rocky projections

around the windows plants of different kinds, as well as long stream ing

grass, so that the openings were picturesquely framed in green, which

h had a pleasing effect.

The inhabitants of this solid, healthy, and secure dwelling, could n ot

but be charmed with their work. The view from the windows extended o ver a

boundless horizon, which was closed by the two Mandible Capes on the north,

and Claw Cape on the south. All Union Bay was spread before them. Yes, our

brave settlers had reason to be satisfied, and Pencroft was lavish in his

praise of what he humorously called, "his apartments on the fifth floor

above the ground!"

Chapter 20

The winter season set in with the month of June, which corresponds with the

month of December in the Northern Hemisphere. It began with showers and

squalls, which succeeded each other without intermission. The tenant s of

Granite House could appreciate the advantages of a dwelling which sheltered

them from the inclement weather. The Chimneys would have been quite insufficient to protect them against the rigor of winter, and it was to be

feared that the high tides would make another irruption. Cyrus Harding had

taken precautions against this contingency, so as to preserve as much as

possible the forge and furnace which were established there.

During the whole of the month of June the time was employed in different

occupations, which excluded neither hunting nor fishing, the larder being,

therefore, abundantly supplied. Pencroft, so soon as he had leisure,

proposed to set some traps, from which he expected great results. He soon

made some snares with creepers, by the aid of which the warren hence forth

every day furnished its quota of rodents. Neb employed nearly all his time

in salting or smoking meat, which insured their always having plenty of

provisions. The question of clothes was now seriously discussed, the

settlers having no other garments than those they wore when the ball oon

threw them on the island. These clothes were warm and good; they had

taken

great care of them as well as of their linen, and they were perfectl \mathbf{y}

whole, but they would soon need to be replaced. Moreover, if the win ter was

severe, the settlers would suffer greatly from cold.

On this subject the ingenuity of Harding was at fault. They must provide

for their most pressing wants, settle their dwelling, and lay in a store of

food; thus the cold might come upon them before the question of clot hes had

been settled. They must therefore make up their minds to pass this first

winter without additional clothing. When the fine season came round again,

they would regularly hunt those musmons which had been seen on the expedition to Mount Franklin, and the wool once collected, the engin eer

would know how to make it into strong warm stuff.... How? He would consider.

"Well, we are free to roast ourselves at Granite House!" said Pencroft.

"There are heaps of fuel, and no reason for sparing it."

"Besides," added Gideon Spilett, "Lincoln Island is not situated und er a

very high latitude, and probably the winters here are not severe. Did you

not say, Cyrus, that this thirty-fifth parallel corresponded to that of

Spain in the other hemisphere?"

"Doubtless," replied the engineer, "but some winters in Spain are very

cold! No want of snow and ice; and perhaps Lincoln Island is just as

rigourously tried. However, it is an island, and as such, I hope that the

temperature will be more moderate."

"Why, captain?" asked Herbert.

"Because the sea, my boy, may be considered as an immense reservoir, in

which is stored the heat of the summer. When winter comes, it restor es this

heat, which insures for the regions near the ocean a medium temperature,

less high in summer, but less low in winter."

"We shall prove that," replied Pencroft. "But I don't want to bother myself about whether it will be cold or not. One thing is certain, t

hat is

that the days are already short, and the evenings long. Suppose we talk

about the question of light."

"Nothing is easier," replied Harding.

"To talk about?" asked the sailor.

"To settle."

"And when shall we begin?"

"To-morrow, by having a seal hunt."

"To make candles?"

"Yes."

Such was the engineer's project; and it was quite feasible, since he had

lime and sulphuric acid, while the amphibians of the islet would fur nish

the fat necessary for the manufacture.

They were now at the 4th of June. It was Whit Sunday and they agreed to

observe this feast. All work was suspended, and prayers were offered to

Heaven. But these prayers were now thanksgivings. The settlers in Li ncoln

Island were no longer the miserable castaways thrown on the islet. They

asked for nothing more--they gave thanks. The next day, the 5th of J une, in

rather uncertain weather, they set out for the islet. They had to profit by

the low tide to cross the Channel, and it was agreed that they would

construct, for this purpose, as well as they could, a boat which would

render communication so much easier, and would also permit them to a scend

the Mercy, at the time of their grand exploration of the southwest of the

island, which was put off till the first fine days.

The seals were numerous, and the hunters, armed with their iron-tipp ed

spears, easily killed half-a-dozen. Neb and Pencroft skinned them, a nd only $\frac{1}{2}$

brought back to Granite House their fat and skin, this skin being in tended

for the manufacture of boots.

The result of the hunt was this: nearly three hundred pounds of fat,

all

to be employed in the fabrication of candles.

The operation was extremely simple, and if it did not yield absolute ly

perfect results, they were at least very useful. Cyrus Harding would only

have had at his disposal sulphuric acid, but by heating this acid with the

neutral fatty bodies he could separate the glycerine; then from this new

combination, he easily separated the olein, the margarin, and the st earin,

by employing boiling water. But to simplify the operation, he prefer red to

saponify the fat by means of lime. By this he obtained a calcareous soap,

easy to decompose by sulphuric acid, which precipitated the lime int o the

state of sulphate, and liberated the fatty acids.

From these three acids-oleic, margaric, and stearic-the first, being

liquid, was driven out by a sufficient pressure. As to the two others, they

formed the very substance of which the candles were to be molded.

This operation did not last more than four and twenty hours. The wicks,

after several trials, were made of vegetable fibers, and dipped in the

liquefied substance, they formed regular stearic candles, molded by the

hand, which only wanted whiteness and polish. They would not doubtle ss have

the advantages of the wicks which are impregnated with boracic acid, and

which vitrify as they burn and are entirely consumed, but Cyrus Harding

having manufactured a beautiful pair of snuffers, these candles would be

greatly appreciated during the long evenings in Granite House.

During this month there was no want of work in the interior of their new

dwelling. The joiners had plenty to do. They improved their tools, w hich

were very rough, and added others also.

Scissors were made among other things, and the settlers were at last able

to cut their hair, and also to shave, or at least trim their beards.

Herbert had none, Neb but little, but their companions were bristling in a

way which justified the making of the said scissors.

The manufacture of a hand-saw cost infinite trouble, but at last an instrument was obtained which, when vigorously handled, could divide the

ligneous fibers of the wood. They then made tables, seats, cupboards, to

furnish the principal rooms, and bedsteads, of which all the bedding

consisted of grass mattresses. The kitchen, with its shelves, on whi

rested the cooking utensils, its brick stove, looked very well, and Neb

worked away there as earnestly as if he was in a chemist's laborator y.

But the joiners had soon to be replaced by carpenters. In fact, the waterfall created by the explosion rendered the construction of two bridges

necessary, one on Prospect Heights, the other on the shore. Now the plateau

and the shore were transversely divided by a watercourse, which had to be

crossed to reach the northern part of the island. To avoid it the colonists

had been obliged to make a considerable detour, by climbing up to the

source of the Red Creek. The simplest thing was to establish on the plateau, and on the shore, two bridges from twenty to five and twenty feet

in length. All the carpenter's work that was needed was to clear som e trees

of their branches: this was a business of some days. Directly the bridges

were established, Neb and Pencroft profited by them to go to the oys ter-bed

which had been discovered near the downs. They dragged with them a sort of

rough cart, which replaced the former inconvenient hurdle, and brought back

some thousands of oysters, which soon increased among the rocks and formed

a bed at the mouth of the Mercy. These molluscs were of excellent quality,

and the colonists consumed some daily.

It has been seen that Lincoln Island, although its inhabitants had a s yet

only explored a small portion of it, already contributed to almost a ll

their wants. It was probable that if they hunted into its most secre

recesses, in all the wooded part between the Mercy and Reptile Point , they $\ensuremath{\mathsf{N}}$

would find new treasures.

The settlers in Lincoln Island had still one privation. There was no

want

of meat, nor of vegetable products; those ligneous roots which they had

found, when subjected to fermentation, gave them an acid drink, which was

preferable to cold water; they also made sugar, without canes or bee t-

roots, by collecting the liquor which distils from the "acer sacehar inum,"

a son of maple-tree, which flourishes in all the temperate zones, an d of

which the island possessed a great number; they made a very agreeable tea

by employing the herbs brought from the warren; lastly, they had an abundance of salt, the only mineral which is used in food . . . but bread

was wanting.

Perhaps in time the settlers could replace this want by some equival ent,

it was possible that they might find the sago or the breadfruit tree among

the forests of the south, but they had not as yet met with these pre cious

trees. However, Providence came directly to their aid, in an infinit esimal

proportion it is true, but Cyrus Harding, with all his intelligence, all

his ingenuity, would never have been able to produce that which, by the

greatest chance, Herbert one day found in the lining of his waistcoat,

which he was occupied in setting to rights.

On this day, as it was raining in torrents, the settlers were assembled

in the great hall in Granite House, when the lad cried out all at on ce,--

"Look here, captain -- A grain of corn!"

And he showed his companions a grain--a single grain--which from a hole

in his pocket had got into the lining of his waistcoat.

The presence of this grain was explained by the fact that Herbert, when

at Richmond, used to feed some pigeons, of which Pencroft had made h im a present.

"A grain of corn?" said the engineer quickly.

"Yes, captain; but one, only one!"

"Well, my boy," said Pencroft, laughing, "we're getting on capitally

upon my word! What shall we make with one grain of corn?"

"We will make bread of it," replied Cyrus Harding.

"Bread, cakes, tarts!" replied the sailor. "Come, the bread that this grain of corn will make won't choke us very soon!"

Herbert, not attaching much importance to his discovery, was going to α

throw away the grain in question; but Harding took it, examined it, found

that it was in good condition, and looking the sailor full in the face--

"Pencroft," he asked quietly, "do you know how many ears one grain of corn

can produce?"

"One, I suppose!" replied the sailor, surprised at the question.

"Ten, Pencroft! And do you know how many grains one ear bears?"

"No, upon my word."

"About eighty!" said Cyrus Harding. "Then, if we plant this grain, a t the

first crop we shall reap eight hundred grains which at the second will

produce six hundred and forty thousand; at the third, five hundred a nd

twelve millions; at the fourth, more than four hundred thousands of millions! There is the proportion."

Harding's companions listened without answering. These numbers aston ished

them. They were exact, however.

"Yes, my friends," continued the engineer, "such are the arithmetica $\ensuremath{^{1}}$

progressions of prolific nature; and yet what is this multiplication of the

grain of corn, of which the ear only bears eight hundred grains, compared

to the poppy-plant, which bears thirty-two thousand seeds; to the to bacco-

plant, which produces three hundred and sixty thousand? In a few years,

without the numerous causes of destruction, which arrests their fecundity,

these plants would overrun the earth."

But the engineer had not finished his lecture.

"And now, Pencroft," he continued, "do you know how many bushels fou r

hundred thousand millions of grains would make?"

"No," replied the sailor; "but what I do know is, that I am nothing better than a fool!"

"Well, they would make more than three millions, at a hundred and th irty thousand a bushel, Pencroft."

"Three millions!" cried Pencroft.

"Three millions."

"In four years?"

"In four years," replied Cyrus Harding, "and even in two years, if, as I hope, in this latitude we can obtain two crops a year."

At that, according to his usual custom, Pencroft could not reply otherwise than by a tremendous hurrah.

"So, Herbert," added the engineer, "you have made a discovery of gre at importance to us. Everything, my friends, everything can serve us in the condition in which we are. Do not forget that, I beg of you."

"No, captain, no, we shan't forget it," replied Pencroft; "and if ever I find one of those tobacco-seeds, which multiply by three hundred and sixty thousand, I assure you I won't throw it away! And now, what must we do?"

"We must plant this grain," replied Herbert.

"Yes," added Gideon Spilett, "and with every possible care, for it bears in itself our future harvests."

"Provided it grows!" cried the sailor.

"It will grow," replied Cyrus Harding.

This was the 20th of June. The time was then propitious for sowing this

single precious grain of corn. It was first proposed to plant it in a pot,

but upon reflection it was decided to leave it to nature, and confide it to

the earth. This was done that very day, and it is needless to add, that

every precaution was taken that the experiment might succeed.

The weather having cleared, the settlers climbed the height above Gr

anite

House. There, on the plateau, they chose a spot, well sheltered from the

wind, and exposed to all the heat of the midday sun. The place was cleared,

carefully weeded, and searched for insects and worms; then a bed of good

earth, improved with a little lime, was made; it was surrounded by a railing; and the grain was buried in the damp earth.

Did it not seem as if the settlers were laying the first stone of so $\ensuremath{\mathsf{me}}$

edifice? It recalled to Pencroft the day on which he lighted his only

match, and all the anxiety of the operation. But this time the thing was

more serious. In fact, the castaways would have been always able to procure

fire, in some mode or other, but no human power could supply another grain

of corn, if unfortunately this should be lost!

Chapter 21

From this time Pencroft did not let a single day pass without going to

visit what he gravely called his "corn-field." And woe to the insect s which

dared to venture there! No mercy was shown them.

Towards the end of the month of June, after incessant rain, the weat her

became decidedly colder, and on the 29th a Fahrenheit thermometer would

certainly have announced only twenty degrees above zero, that is considerably below the freezing-point. The next day, the 30th of June, the

day which corresponds to the 31st of December in the northern year, was a

Friday. Neb remarked that the year finished on a bad day, but Pencro ft.

replied that naturally the next would begin on a good one, which was better.

At any rate it commenced by very severe cold. Ice accumulated at the mouth of the Mercy, and it was not long before the whole expanse of the lake was frozen.

The settlers had frequently been obliged to renew their store of woo d.

Pencroft also had wisely not waited till the river was frozen, but h

ad

brought enormous rafts of wood to their destination. The current was an

indefatigable moving power, and it was employed in conveying the floating

wood to the moment when the frost enchained it. To the fuel which was so

abundantly supplied by the forest, they added several cartloads of coal,

which had to be brought from the foot of the spurs of Mount Franklin . The

powerful heat of the coal was greatly appreciated in the low tempera ture,

which on the 4th of July fell to eight degrees of Fahrenheit, that is,

thirteen degrees below zero. A second fireplace had been established in the

dining-room, where they all worked together at their different avoca tions.

During this period of cold, Cyrus Harding had great cause to congratulate

himself on having brought to Granite House the little stream of wate ${\bf r}$ from

Lake Grant. Taken below the frozen surface, and conducted through the ϵ

passage, it preserved its fluidity, and arrived at an interior reservoir

which had been hollowed out at the back part of the storeroom, while the

overflow ran through the well to the sea.

About this time, the weather being extremely dry, the colonists, clo

as warmly as possible, resolved to devote a day to the exploration of that

part of the island between the Mercy and Claw Cape. It was a wide extent of

marshy land, and they would probably find good sport, for water-bird s ought

to swarm there.

They reckoned that it would be about eight or nine miles to go there, and

as much to return, so that the whole of the day would be occupied. As an

unknown part of the island was about to be explored, the whole colon y took

part in the expedition. Accordingly, on the 5th of July, at six o'cl ock in

the morning, when day had scarcely broken, Cyrus Harding, Gideon Spilett,

Herbert, Neb, and Pencroft, armed with spears, snares, bows and arrows, and

provided with provisions, left Granite House, preceded by Top, who bounded

before them.

Their shortest way was to cross the Mercy on the ice, which then covered it.

"But," as the engineer justly observed, "that could not take the place of

a regular bridge!" So, the construction of a regular bridge was note d in

the list of future works.

It was the first time that the settlers had set foot on the right bank of

the Mercy, and ventured into the midst of those gigantic and superb coniferae now sprinkled over with snow.

But they had not gone half a mile when from a thicket a whole family of

quadrupeds, who had made a home there, disturbed by Top, rushed fort h into

the open country.

"Ah! I should say those are foxes!" cried Herbert, when he saw the troop rapidly decamping.

They were foxes, but of a very large size, who uttered a sort of bar king,

at which Top seemed to be very much astonished, for he stopped short in the

chase, and gave the swift animals time to disappear.

The dog had reason to be surprised, as he did not know Natural History.

But, by their barking, these foxes, with reddish-gray hair, black tails

terminating in a white tuft, had betrayed their origin. So Herbert was

able, without hesitating, to give them their real name of "Arctic fo xes."

They are frequently met with in Chile, in the Falkland Islands, and in all

parts of America traversed by the thirtieth and fortieth parallels. Herbert

much regretted that Top had not been able to catch one of these carn ivora.

"Are they good to eat?" asked Pencroft, who only regarded the representatives of the fauna in the island from one special point of view.

"No," replied Herbert; "but zoologists have not yet found out if the eye

of these foxes is diurnal or nocturnal, or whether it is correct to class

them in the genus dog, properly so called."

Harding could not help smiling on hearing the lad's reflection, which

showed a thoughtful mind. As to the sailor, from the moment when he found

that the foxes were not classed in the genus eatable, they were noth ing to

him. However, when a poultry-yard was established at Granite House, he

observed that it would be best to take some precautions against a probable

visit from these four-legged plunderers, and no one disputed this.

After having turned the point, the settlers saw a long beach washed by

the open sea. It was then eight o'clock in the morning. The sky was very

clear, as it often is after prolonged cold; but warmed by their walk

neither Harding nor his companions felt the sharpness of the atmosph ere too

severely. Besides there was no wind, which made it much more bearable. A

brilliant sun, but without any calorific action, was just issuing from the

ocean. The sea was as tranquil and blue as that of a Mediterranean gulf,

when the sky is clear. Claw Cape, bent in the form of a yataghan, tapered

away nearly four miles to the southeast. To the left the edge of the marsh

was abruptly ended by a little point. Certainly, in this part of Union Bay,

which nothing sheltered from the open sea, not even a sandbank, ship s

beaten by the east winds would have found no shelter. They perceived by the

tranquillity of the sea, in which no shallows troubled the waters, by its

uniform color, which was stained by no yellow shades, by the absence of

even a reef, that the coast was steep and that the ocean there cover ed a

deep abyss. Behind in the west, but at a distance of four miles, ros e the

first trees of the forests of the Far West. They might have believed

themselves to be on the desolate coast of some island in the $\operatorname{Antarct}$ ic

regions which the ice had invaded. The colonists halted at this place for

breakfast. A fire of brushwood and dried seaweed was lighted, and Ne b

prepared the breakfast of cold meat, to which he added some cups of Oswego tea.

While eating they looked around them. This part of Lincoln Island was

very sterile, and contrasted with all the western part. The reporter was

thus led to observe that if chance had thrown them at first on the s hore,

they would have had but a deplorable idea of their future domain.

"I believe that we should not have been able to reach it," replied t

engineer, "for the sea is deep, and there is not a rock on which we could

have taken refuge. Before Granite House, at least, there were sandbanks, an

islet, which multiplied our chances of safety. Here, nothing but the depths!"

"It is singular enough," remarked Spilett, "that this comparatively small

island should present such varied ground. This diversity of aspect, logically only belongs to continents of a certain extent. One would really

say, that the western part of Lincoln Island, so rich and so fertile, is

washed by the warm waters of the Gulf of Mexico, and that its shores to the

north and the southeast extend over a sort of Arctic sea."

"You are right, my dear Spilett," replied Cyrus Harding, "I have als

observed this. I think the form and also the nature of this island s trange.

It is a summary of all the aspects which a continent presents, and I should

not be surprised if it was a continent formerly."

"What! a continent in the middle of the Pacific?" cried Pencroft.

"Why not?" replied Cyrus Harding. "Why should not Australia, New Ire land.

Australasia, united to the archipelagoes of the Pacific, have once formed a

sixth part of the world, as important as Europe or Asia, as Africa or the

two Americas? To my mind, it is quite possible that all these island s,

emerging from this vast ocean, are but the summits of a continent, n ow

submerged, but which was above the waters at a prehistoric period."

"As the Atlantis was formerly," replied Herbert.

"Yes, my boy... if, however, it existed."

"And would Lincoln Island have been a part of that continent?" asked Pencroft.

"It is probable," replied Cyrus Harding, "and that would sufficiently, explain the variety of productions which are seen on its surface."

"And the great number of animals which still inhabit it," added Herb ert.

"Yes, my boy," replied the engineer, "and you furnish me with an arg ument

to support my theory. It is certain, after what we have seen, that a nimals

are numerous in this island, and what is more strange, that the species are

extremely varied. There is a reason for that, and to me it is that L incoln

Island may have formerly been a part of some vast continent which had

gradually sunk below the Pacific."

"Then, some fine day," said Pencroft, who did not appear to be entirely

convinced, "the rest of this ancient continent may disappear in its turn,

and there will be nothing between America and Asia."

"Yes," replied Harding, "there will be new continents which millions and $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

millions of animalculae are building at this moment."

"And what are these masons?" asked Pencroft.

"Coral insects," replied Cyrus Harding. "By constant work they made the

island of Clermont-Tonnerre, and numerous other coral islands in the

Pacific Ocean. Forty-seven millions of these insects are needed to weigh a

grain, and yet, with the sea-salt they absorb, the solid elements of water

which they assimilate, these animalculae produce limestone, and this

limestone forms enormous submarine erections, of which the hardness and

solidity equal granite. Formerly, at the first periods of creation, nature

employing fire, heaved up the land, but now she entrusts to these microscopic creatures the task of replacing this agent, of which the

dynamic power in the interior of the globe has evidently diminished-which

is proved by the number of volcanoes on the surface of the earth, no $\ensuremath{\mathbf{w}}$

actually extinct. And I believe that centuries succeeding to centuries, and

insects to insects, this Pacific may one day be changed into a vast continent, which new generations will inhabit and civilize in their turn."

"That will take a long time," said Pencroft.

"Nature has time for it," replied the engineer.

"But what would be the use of new continents?" asked Herbert. "It appears

to me that the present extent of habitable countries is sufficient for

humanity. Yet nature does nothing uselessly."

"Nothing uselessly, certainly," replied the engineer, "but this is how

the necessity of new continents for the future, and exactly on the tropical

zone occupied by the coral islands, may be explained. At least to me this

explanation appears plausible."

"We are listening, captain," said Herbert.

"This is my idea: philosophers generally admit that some day our glo

will end, or rather that animal and vegetable life will no longer be

possible, because of the intense cold to which it will be subjected. What

they are not agreed upon, is the cause of this cold. Some think that it

will arise from the falling of the temperature, which the sun will experience alter millions of years; others, from the gradual extinct ion of

the fires in the interior of our globe, which have a greater influence on

it than is generally supposed. I hold to this last hypothesis, groun ding it

on the fact that the moon is really a cold star, which is no longer habitable, although the sun continues to throw on its surface the same

amount of heat. If, then, the moon has become cold, it is because the α

interior fires to which, as do all the stars of the stellar world, it owes

its origin, are completely extinct. Lastly, whatever may be the cause, our

globe will become cold some day, but this cold will only operate gradually.

What will happen, then? The temperate zones, at a more or less distant

period, will not be more habitable than the polar regions now are. Then the

population of men, as well as the animals, will flow towards the latitudes

which are more directly under the solar influence. An immense emigra

will take place. Europe, Central Asia, North America, will gradually be

abandoned, as well as Australasia and the lower parts of South America. The

vegetation will follow the human emigration. The flora will retreat towards

the Equator at the same time as the fauna. The central parts of Sout h

America and Africa will be the continents chiefly inhabited. The Laplanders

and the Samoides will find the climate of the polar regions on the s hores

of the Mediterranean. Who can say, that at this period, the equatorial

regions will not be too small, to contain and nourish terrestrial hu manity?

Now, may not provident nature, so as to give refuge to all the veget able

and animal emigration, be at present laying the foundation of a new continent under the Equator, and may she not have entrusted these in sects

with the construction of it? I have often thought of all these thing s, my

friends, and I seriously believe that the aspect of our globe will some day

be completely changed; that by the raising of new continents the sea will

cover the old, and that, in future ages, a Columbus will go to discover the

islands of Chimborazo, of the Himalayas, or of Mont Blanc, remains of a

submerged America, Asia, and Europe. Then these new continents will become,

in their turn, uninhabitable; heat will die away, as does the heat from a

body when the soul has left it; and life will disappear from the glo be, if

not for ever, at least for a period. Perhaps then, our spheroid will rest--

will be left to death--to revive some day under superior conditions!
But all

that, my friends, is the secret of the Author of all things; and beginning

by the work of the insects, I have perhaps let myself be carried too far,

in investigating the secrets of the future.

"My dear Cyrus," replied Spilett, "these theories are prophecies to me,

and they will be accomplished some day."

"That is the secret of God," said the engineer.

"All that is well and good," then said Pencroft, who had listened wi

all his might, "but will you tell me, captain, if Lincoln Island has been

made by your insects?"

"No," replied Harding; "it is of a purely volcanic origin."

"Then it will disappear some day?"

"That is probable.

"I hope we won't be here then."

"No, don't be uneasy, Pencroft; we shall not be here then, as we have no

wish to die here, and hope to get away some time."

"In the meantime," replied Gideon Spilett, "let us establish ourselves

here as if forever. There is no use in doing things by halves."

This ended the conversation. Breakfast was finished, the exploration was

continued, and the settlers arrived at the border of the marshy region. It

was a marsh of which the extent, to the rounded coast which terminat ed the

island at the southeast, was about twenty square miles. The soil was formed

of clayey flint-earth, mingled with vegetable matter, such as the remains

of rushes, reeds, grass, etc. Here and there beds of grass, thick as a

carpet, covered it. In many places icy pools sparkled in the sun. Ne ither

rain nor any river, increased by a sudden swelling, could supply the se

ponds. They therefore naturally concluded that the marsh was fed by the

infiltrations of the soil and it was really so. It was also to be fe ared

that during the heat miasmas would arise, which might produce fevers

Above the aquatic plants, on the surface of the stagnant water, flut tered

numbers of birds. Wild duck, teal, snipe lived there in flocks, and those

fearless birds allowed themselves to be easily approached.

One shot from a gun would certainly have brought down some dozen of the

birds, they were so close together. The explorers were, however, obliged to

content themselves with bows and arrows. The result was less, but the

silent arrow had the advantage of not frightening the birds, while the

noise of firearms would have dispersed them to all parts of the mars ${\bf h}$. The

hunters were satisfied, for this time, with a dozen ducks, which had white

bodies with a band of cinnamon, a green head, wings black, white, an d red,

and flattened beak. Herbert called them tadorns. Top helped in the capture

of these birds, whose name was given to this marshy part of the island. The

settlers had here an abundant reserve of aquatic game. At some future time

they meant to explore it more carefully, and it was probable that so me of

the birds there might be domesticated, or at least brought to the sh ores of

the lake, so that they would be more within their reach.

About five o'clock in the evening Cyrus Harding and his companions retraced their steps to their dwelling by traversing Tadorn's Fens, and

crossed the Mercy on the ice-bridge.

At eight in the evening they all entered Granite House.

Chapter 22

This intense cold lasted till the 15th of August, without, however, passing

the degree of Fahrenheit already mentioned. When the atmosphere was calm,

the low temperature was easily borne, but when the wind blew, the po or

settlers, insufficiently clothed, felt it severely. Pencroft regrett ed that

Lincoln Island was not the home of a few families of bears rather th an of

so many foxes and seals.

"Bears," said he, "are generally very well dressed, and I ask no mor e than to borrow for the winter the warm cloaks which they have on the ir backs."

"But," replied Neb, laughing, "perhaps the bears would not consent to give you their cloaks, Pencroft. These beasts are not St. Martins."

"We would make them do it, Neb, we would make them," replied Pencrof t, in

quite an authoritative tone.

But these formidable carnivora did not exist in the island, or at an y rate they had not yet shown themselves.

In the meanwhile, Herbert, Pencroft, and the reporter occupied thems elves

with making traps on Prospect Heights and at the border of the fores t.

According to the sailor, any animal, whatever it was, would be a law ful

prize, and the rodents or carnivora which might get into the new sna res

would be well received at Granite House.

The traps were besides extremely simple; being pits dug in the groun d, a

platform of branches and grass above, which concealed the opening, a nd at

the bottom some bait, the scent of which would attract animals. It $\ensuremath{\mathsf{m}}$ ust be

mentioned also, that they had not been dug at random, but at certain places

where numerous footprints showed that quadrupeds frequented the ground.

They were visited every day, and at three different times, during the first

days, specimens of those Antarctic foxes which they had already seen on the

right bank of the Mercy were found in them.

"Why, there are nothing but foxes in this country!" cried Pencroft, when

for the third time he drew one of the animals out of the pit. Lookin g at it

in great disgust, he added, "beasts which are good for nothing!"

"Yes," said Gideon Spilett, "they are good for something!"

"And what is that?"

"To make bait to attract other creatures!"

The reporter was right, and the traps were henceforward baited with the

foxes carcasses.

The sailor had also made snares from the long tough fibers of a cert ain

plant, and they were even more successful than the traps. Rarely a d ay

passed without some rabbits from the warren being caught. It was alw ays

rabbit, but Neb knew how to vary his sauces and the settlers did not

think of complaining.

However, once or twice in the second week of August, the traps supplied

the hunters with other animals more useful than foxes, namely, sever al of

those small wild boars which had already been seen to the north of the

lake. Pencroft had no need to ask if these beasts were eatable. He could

see that by their resemblance to the pig of America and Europe.

"But these are not pigs," said Herbert to him, "I warn you of that, Pencroft."

"My boy," replied the sailor, bending over the trap and drawing out one

of these representatives of the family of sus by the little appendag e which

served it as a tail. "Let me believe that these are pigs."

"Why?"

"Because that pleases me!"

"Are you very fond of pig then, Pencroft?"

"I am very fond of pig," replied the sailor, "particularly of its fe et,

and if it had eight instead of four, I should like it twice as much! "

As to the animals in question, they were peccaries belonging to one of

the four species which are included in the family, and they were als o of

the species of Tajacu, recognizable by their deep color and the absence of

those long teeth with which the mouths of their congeners are armed.

peccaries generally live in herds, and it was probable that they abounded

in the woody parts of the island.

At any rate, they were eatable from head to foot, and Pencroft did n ot

ask more from them.

Towards the 15th of August, the state of the atmosphere was suddenly

moderated by the wind shifting to the northwest. The temperature ros e some

degrees, and the accumulated vapor in the air was not long in resolving

into snow. All the island was covered with a sheet of white, and sho

wed

itself to its inhabitants under a new aspect. The snow fell abundant ly for

several days, and it soon reached a thickness of two feet.

The wind also blew with great violence, and at the height of Granite

House the sea could be heard thundering against the reefs. In some p laces,

the wind, eddying round the corners, formed the snow into tall whirling

columns, resembling those waterspouts which turn round on their base , and

which vessels attack with a shot from a gun. However, the storm, coming

from the northwest, blew across the island, and the position of Gran ite

House preserved it from a direct attack.

But in the midst of this snow-storm, as terrible as if it had been produced in some polar country, neither Cyrus Harding nor his companions

could, notwithstanding their wish for it, venture forth, and they re mained

shut up for five days, from the 20th to the 25th of August. They could hear

the tempest raging in Jacamar Wood, which would surely suffer from it. Many

of the trees would no doubt be torn up by the roots, but Pencroft consoled

himself by thinking that he would not have the trouble of cutting the $\operatorname{\mathsf{em}}$

"The wind is turning woodman, let it alone," he repeated.

Besides, there was no way of stopping it, if they had wished to do so.

How grateful the inhabitants of Granite House then were to Heaven for r

having prepared for them this solid and immovable retreat! Cyrus Har ding

had also his legitimate share of thanks, but after all, it was Natur e who

had hollowed out this vast cavern, and he had only discovered it. Th ere all

were in safety, and the tempest could not reach them. If they had constructed a house of bricks and wood on Prospect Heights, it certainly

would not have resisted the fury of this storm. As to the Chimneys, it must

have been absolutely uninhabitable, for the sea, passing over the is let,

would beat furiously against it. But here, in Granite House, in the middle

of a solid mass, over which neither the sea nor air had any influence,

there was nothing to fear.

During these days of seclusion the settlers did not remain inactive.

There was no want of wood, cut up into planks, in the storeroom, and

little by little they completed their furnishing; constructing the most

solid of tables and chairs, for material was not spared. Neb and Pen croft

were very proud of this rather heavy furniture, which they would not have

changed on any account.

Then the carpenters became basket-makers, and they did not succeed b adly

in this new manufacture. At the point of the lake which projected to the

north, they had discovered an osier-bed in which grew a large number of

purple osiers. Before the rainy season, Pencroft and Herbert had cut down

these useful shrubs, and their branches, well prepared, could now be

effectively employed. The first attempts were somewhat crude, but in

consequence of the cleverness and intelligence of the workmen, by consulting, and recalling the models which they had seen, and by emulating

each other, the possessions of the colony were soon increased by several

baskets of different sizes. The storeroom was provided with them, an d in

special baskets Neb placed his collection of rhizomes, stone-pine al monds,

etc.

During the last week of the month of August the weather moderated ag ain.

The temperature fell a little, and the tempest abated. The colonists

sallied out directly. There was certainly two feet of snow on the sh ore,

but they were able to walk without much difficulty on the hardened surface.

Cyrus Harding and his companions climbed Prospect Heights.

What a change! The woods, which they had left green, especially in the

part at which the firs predominated, had disappeared under a uniform color.

All was white, from the summit of Mount Franklin to the shore, the forests,

the plains, the lake, the river. The waters of the Mercy flowed under a $\ensuremath{\text{r}}$

roof of ice, which, at each rising and ebbing of the tide, broke up with

loud crashes. Numerous birds fluttered over the frozen surface of the lake.

Ducks and snipe, teal and guillemots were assembled in thousands. The rocks

among which the cascade flowed were bristling with icicles. One might have

said that the water escaped by a monstrous gargoyle, shaped with all the

imagination of an artist of the Renaissance. As to the damage caused by the

storm in the forest, that could not as yet be ascertained; they would have

to wait till the snowy covering was dissipated.

Gideon Spilett, Pencroft, and Herbert did not miss this opportunity of

going to visit their traps. They did not find them easily, under the snow

with which they were covered. They had also to be careful not to fal linto

one or other of them, which would have been both dangerous and humil iating;

to be taken in their own snares! But happily they avoided this unpleasantness, and found their traps perfectly intact. No animal had

fallen into them, and yet the footprints in the neighborhood were very

numerous, among others, certain very clear marks of claws. Herbert d id not

hesitate to affirm that some animal of the feline species had passed there,

which justified the engineer's opinion that dangerous beasts existed in

Lincoln Island. These animals doubtless generally lived in the fores ts of

the Far West, but pressed by hunger, they had ventured as far as Prospect

Heights. Perhaps they had smelled out the inhabitants of Granite House.

"Now, what are these feline creatures?" asked Pencroft. "They are tigers,"

replied Herbert. "I thought those beasts were only found in hot coun tries?"

"On the new continent," replied the lad, "they are found from Mexico to

the Pampas of Buenos Aires. Now, as Lincoln Island is nearly under the same

latitude as the provinces of La Plata, it is not surprising that tig ers are

to be met with in it."

"Well, we must look out for them," replied Pencroft.

However, the snow soon disappeared, quickly dissolving under the influence of the rising temperature. Rain fell, and the sheet of white soon

vanished. Notwithstanding the bad weather, the settlers renewed their

stores of different things, stone-pine almonds, rhizomes, syrup from the

maple-tree, for the vegetable part; rabbits from the warren, agouties, and

kangaroos for the animal part. This necessitated several excursions into

the forest, and they found that a great number of trees had been blown down

by the last hurricane. Pencroft and Neb also pushed with the cart as far as

the vein of coal, and brought back several tons of fuel. They saw in

passing that the pottery kiln had been severely damaged by the wind, at

least six feet of it having been blown off.

At the same time as the coal, the store of wood was renewed at Grani

House, and they profited by the current of the Mercy having again be come

free, to float down several rafts. They could see that the cold peri od was

not ended.

A visit was also paid to the Chimneys, and the settlers could not bu $\ensuremath{^{\text{t}}}$

congratulate themselves on not having been living there during the hurricane. The sea had left unquestionable traces of its ravages. Sw eeping

over the islet, it had furiously assailed the passages, half filling them

with sand, while thick beds of seaweed covered the rocks. While Neb,

Herbert, and Pencroft hunted or collected wood, Cyrus Harding and Gideon

Spilett busied themselves in putting the Chimneys to rights, and the y found

the forge and the bellows almost unhurt, protected as they had been from

the first by the heaps of sand.

The store of fuel had not been made uselessly. The settlers had not done

with the rigorous cold. It is known that, in the Northern Hemisphere , the

month of February is principally distinguished by rapid fallings of the

temperature. It is the same in the Southern Hemisphere, and the end of the

month of August, which is the February of North America, does not es cape

this climatic law.

About the 25th, after another change from snow to rain, the wind shi fted

to the southeast, and the cold became, suddenly, very severe. According to

the engineer's calculation, the mercurial column of a Fahrenheit thermometer would not have marked less than eight degrees below zero, and

this intense cold, rendered still more painful by a sharp gale, last ed for

several days. The colonists were again shut up in Granite House, and as it

was necessary to hermetically seal all the openings of the facade, only

leaving a narrow passage for renewing the air, the consumption of candles

was considerable. To economize them, the cavern was often only light ed by

the blazing hearths, on which fuel was not spared. Several times, on e or

other of the settlers descended to the beach in the midst of ice whi ch the

waves heaped up at each tide, but they soon climbed up again to Gran ite

House, and it was not without pain and difficulty that their hands could

hold to the rounds of the ladder. In consequence of the intense cold

their fingers felt as if burned when they touched the rounds. To occupy the

leisure hours, which the tenants of Granite House now had at their disposal, Cyrus Harding undertook an operation which could be performed indoors.

We know that the settlers had no other sugar at their disposal than

liquid substance which they drew from the maple, by making deep inci sions

in the tree. They contented themselves with collecting this liquor in jars

and employing it in this state for different culinary purposes, and the

more so, as on growing old, this liquid began to become white and to be of

a syrupy consistence.

But there was something better to be made of it, and one day Cyrus Harding announced that they were going to turn into refiners.

"Refiners!" replied Pencroft. "That is rather a warm trade, I think."

"Very warm," answered the engineer.

"Then it will be seasonable!" said the sailor.

This word refining need not awake in the mind thoughts of an elabora te

manufactory with apparatus and numerous workmen. No! to crystallize this

liquor, only an extremely easy operation is required. Placed on the fire in

large earthen pots, it was simply subjected to evaporation, and soon a scum

arose to its surface. As soon as this began to thicken, Neb carefull Y

removed it with a wooden spatula; this accelerated the evaporation, and at

the same time prevented it from contracting an empyreumatic flavor.

After boiling for several hours on a hot fire, which did as much goo d to

the operators as the substance operated upon, the latter was transformed

into a thick syrup. This syrup was poured into clay molds, previously

fabricated in the kitchen stove, and to which they had given various

shapes. The next day this syrup had become cold, and formed cakes an d

tablets. This was sugar of rather a reddish color, but nearly transp arent

and of a delicious taste.

The cold continued to the middle of September, and the prisoners in Granite House began to find their captivity rather tedious. Nearly e very

day they attempted sorties which they could not prolong. They constantly

worked at the improvement of their dwelling. They talked while working.

Harding instructed his companions in many things, principally explaining to

them the practical applications of science. The colonists had no lib rary at

their disposal; but the engineer was a book which was always at hand

always open at the page which one wanted, a book which answered all their

questions, and which they often consulted. The time thus passed away

pleasantly, these brave men not appearing to have any fears for the future.

However, all were anxious to see, if not the fine season, at least the

cessation of the insupportable cold. If only they had been clothed in a way

to meet it, how many excursions they would have attempted, either to the

downs or to Tadorn's Fens! Game would have been easily approached, a nd the

chase would certainly have been most productive. But Cyrus Harding considered it of importance that no one should injure his health, for he

had need of all his hands, and his advice was followed.

But it must be said, that the one who was most impatient of this imprisonment, after Pencroft perhaps, was Top. The faithful dog foun d

Granite House very narrow. He ran backwards and forwards from one room to

another, showing in his way how weary he was of being shut up. Hardi

often remarked that when he approached the dark well which communica ted

with the sea, and of which the orifice opened at the back of the sto reroom,

Top uttered singular growlings. He ran round and round this hole, which had

been covered with a wooden lid. Sometimes even he tried to put his p aws

under the lid, as if he wished to raise it. He then yelped in a peculiar

way, which showed at once anger and uneasiness.

The engineer observed this maneuver several times.

What could there be in this abyss to make such an impression on the intelligent animal? The well led to the sea, that was certain. Could narrow

passages spread from it through the foundations of the island? Did s ome

marine monster come from time to time, to breathe at the bottom of this

well? The engineer did not know what to think, and could not refrain from

dreaming of many strange improbabilities. Accustomed to go far into the

regions of scientific reality, he would not allow himself to be draw n into

the regions of the strange and almost of the supernatural; but yet how to

explain why Top, one of those sensible dogs who never waste their time in

barking at the moon, should persist in trying with scent and hearing to

fathom this abyss, if there was nothing there to cause his uneasines s?

Top's conduct puzzled Cyrus Harding even more than he cared to ackno wledge

to himself.

At all events, the engineer only communicated his impressions to Gid

eon

Spilett, for he thought it useless to explain to his companions the suspicions which arose from what perhaps was only Top's fancy.

At last the cold ceased. There had been rain, squalls mingled with s now,

hailstorms, gusts of wind, but these inclemencies did not last. The ice

melted, the snow disappeared; the shore, the plateau, the banks of the

Mercy, the forest, again became practicable. This return of spring delighted the tenants of Granite House, and they soon only passed it in the

hours necessary for eating and sleeping.

They hunted much in the second part of September, which led Pencroft to

again entreat for the firearms, which he asserted had been promised by

Cyrus Harding. The latter, knowing well that without special tools it would

be nearly impossible for him to manufacture a gun which would be of any

use, still drew back and put off the operation to some future time, observing in his usual dry way, that Herbert and Spilett had become very

skilful archers, so that many sorts of excellent animals, agouties, kangaroos, capybaras, pigeons, bustards, wild ducks, snipes, in short, game

both with fur and feathers, fell victims to their arrows, and that, consequently, they could wait. But the obstinate sailor would listen

nothing of this, and he would give the engineer no peace till he pro mised

to satisfy his desire. Gideon Spilett, however, supported Pencroft.

"If, which may be doubted," said he, "the island is inhabited by wild

beasts, we must think how to fight with and exterminate them. A time may

come when this will be our first duty."

But at this period, it was not the question of firearms which occupied

Harding, but that of clothes. Those which the settlers wore had pass ed this

winter, but they would not last until next winter. Skins of carnivor a or

the wool of ruminants must be procured at any price, and since there were

plenty of musmons, it was agreed to consult on the means of forming a flock

which might be brought up for the use of the colony. An enclosure for the

domestic animals, a poultry-yard for the birds, in a word to establi sh a

sort of farm in the island, such were the two important projects for the

fine season.

In consequence and in view of these future establishments, it became of

much importance that they should penetrate into all the yet unknown parts

of Lincoln Island, that is to say, through that thick forest which extended

on the right bank of the Mercy, from its mouth to the extremity of the

Serpentine Peninsula, as well as on the whole of its western side. But this

needed settled weather, and a month must pass before this exploration could

be profitably undertaken.

They therefore waited with some impatience, when an incident occurre $\ensuremath{\mathtt{d}}$

which increased the desire the settlers had to visit the whole of their

domain.

It was the 24th of October. On this day, Pencroft had gone to visit his

traps, which he always kept properly baited. In one of them he found three

animals which would be very welcome for the larder. They were a fema le

peccary and her two young ones.

Pencroft then returned to Granite House, enchanted with his capture, and,

as usual, he made a great show of his game.

"Come, we shall have a grand feast, captain!" he exclaimed. "And you too,

Mr. Spilett, you will eat some!"

"I shall be very happy," replied the reporter; "but what is it that I am going to eat?"

"Suckling-pig."

"Oh, indeed, suckling-pig, Pencroft? To hear you, I thought that you were

bringing back a young partridge stuffed with truffles!"

"What?" cried Pencroft. "Do you mean to say that you turn up your no se at suckling-pig?'

"No," replied Gideon Spilett, without showing any enthusiasm; "provided

one doesn't eat too much"

"That's right, that's right," returned the sailor, who was not pleas ed

whenever he heard his chase made light of. "You like to make objections.

Seven months ago, when we landed on the island, you would have been only $\ensuremath{\mathsf{S}}$

too glad to have met with such game!"

"Well, well," replied the reporter, "man is never perfect, nor contented."

"Now," said Pencroft, "I hope that Neb will distinguish himself. Loo \boldsymbol{k}

here! These two little peccaries are not more than three months old! They

will be as tender as quails! Come along, Neb, come! I will look after the

cooking myself."

And the sailor, followed by Neb, entered the kitchen, where they wer e soon absorbed in their culinary labors.

They were allowed to do it in their own way. Neb, therefore, prepare d a

magnificent repast--the two little peccaries, kangaroo soup, a smoke d ham,

stone-pine almonds, Oswego tea; in fact, all the best that they had, but

among all the dishes figured in the first rank the savory peccaries.

At five o'clock dinner was served in the dining-room of Granite House.

The kangaroo soup was smoking on the table. They found it excellent.

To the soup succeeded the peccaries, which Pencroft insisted on carving

himself, and of which he served out monstrous portions to each of the quests.

These suckling-pigs were really delicious, and Pencroft was devouring his

share with great gusto, when all at once a cry and an oath escaped him.

"What's the matter?" asked Cyrus Harding.

"The matter? the matter is that I have just broken a tooth!" replied the sailor.

"What, are there pebbles in your peccaries?" said Gideon Spilett.

"I suppose so," replied Pencroft, drawing from his lips the object \boldsymbol{w} hich

had cost him a grinder!--

It was not a pebble--it was a leaden bullet.

PART 2

ABANDONED

Chapter 1

It was now exactly seven months since the balloon voyagers had been thrown

on Lincoln Island. During that time, notwithstanding the researches they

had made, no human being had been discovered. No smoke even had betr ayed

the presence of man on the surface of the island. No vestiges of his

handiwork showed that either at an early or at a late period had man lived

there. Not only did it now appear to be uninhabited by any but thems elves,

but the colonists were compelled to believe that it never had been inhabited. And now, all this scaffolding of reasonings fell before a simple

ball of metal, found in the body of an inoffensive rodent! In fact, this

bullet must have issued from a firearm, and who but a human being could

have used such a weapon?

When Pencroft had placed the bullet on the table, his companions looked

at it with intense astonishment. All the consequences likely to result from

this incident, notwithstanding its apparent insignificance, immediately

took possession of their minds. The sudden apparition of a supernatural

being could not have startled them more completely.

Cyrus Harding did not hesitate to give utterance to the suggestions which

this fact, at once surprising and unexpected, could not fail to rais e in

his mind. He took the bullet, turned it over and over, rolled it bet ween

his finger and thumb; then, turning to Pencroft, he asked, --

Are you sure that the peccary wounded by this bullet was not more th

an

three months old?"

"Not more, captain," replied Pencroft. "It was still sucking its mot her when I found it in the trap."

"Well," said the engineer, "that proves that within three months a g unshot was fired in Lincoln Island."

"And that a bullet," added Gideon Spilett, "wounded, though not mort ally,

this little animal."

"That is unquestionable," said Cyrus Harding, "and these are the deductions which must be drawn from this incident: that the island w as

inhabited before our arrival, or that men have landed here within th

months. Did these men arrive here voluntarily or involuntarily, by disembarking on the shore or by being wrecked? This point can only be

cleared up later. As to what they were, Europeans or Malays, enemies or

friends of our race, we cannot possibly guess; and if they still inhabit

the island, or if they have left it, we know not. But these question s are

of too much importance to be allowed to remain long unsettled."

"No! a hundred times no! a thousand times no!" cried the sailor, springing up from the table. "There are no other men than ourselves on

Lincoln Island! By my faith! The island isn't large and if it had be en

inhabited, we should have seen some of the inhabitants long before t his!"

"In fact, the contrary would be very astonishing," said Herbert.

"But it would be much more astonishing, I should think, observed the reporter, "if this peccary had been born with a bullet in its inside !"

"At least," said Neb seriously, "if Pencroft has not had--"

"Look here, Neb," burst out Pencroft. "Do you think I could have a bullet

in my jaw for five or six months without finding it out? Where could it be

hidden?" he asked, opening his mouth to show the two-and-thirty teet h with

which it was furnished. "Look well, Neb, and if you find one hollow tooth

in this set, I will let you pull out half a dozen!"

"Neb's supposition is certainly inadmissible," replied Harding, who,

notwithstanding the gravity of his thoughts, could not restrain a sm ile.

"It is certain that a gun has been fired in the island, within three months

at most. But I am inclined to think that the people who landed on this

coast were only here a very short time ago, or that they just touche d here;

for if, when we surveyed the island from the summit of Mount Franklin, it

had been inhabited, we should have seen them or we should have been seen

ourselves. It is therefore, probable that within only a few weeks ca staways

have been thrown by a storm on some part of the coast. However that may

be, it is of consequence to us to have this point settled."

"I think that we should act with caution," said the reporter.

"Such is my advice," replied Cyrus Harding, "for it is to be feared that $\ensuremath{\text{Theorem Partial Parti$

Malay pirates have landed on the island!"

"Captain," asked the sailor, "would it not be a good plan, before se tting

out, to build a canoe in which we could either ascend the river, or, if we

liked, coast round the inland? It will not do to be unprovided."

"Your idea is good, Pencroft," replied the engineer, "but we cannot wait

for that. It would take at least a month to build a boat."

"Yes, a real boat," replied the sailor; "but we do not want one for

sea voyage, and in five days at the most, I will undertake to construct a

canoe fit to navigate the Mercy."

"Five days," cried Neb, "to build a boat?"

"Yes, Neb; a boat in the Indian fashion."

"Of wood?" asked the Negro, looking still unconvinced.

"Of wood," replied Pencroft, "of rather of bark. I repeat, captain, that

in five days the work will be finished!"

"In five days, then, be it," replied the engineer.

"But till that time we must be very watchful," said Herbert.

"Very watchful indeed, my friends," replied Harding; "and I beg you to

confine your hunting excursions to the neighborhood of $\ensuremath{\mathsf{Granite}}$ House ."

The dinner ended less gaily than Pencroft had hoped.

So, then, the island was, or had been, inhabited by others than the settlers. Proved as it was by the incident of the bullet, it was her eafter

an unquestionable fact, and such a discovery could not but cause gre at

uneasiness among the colonists.

Cyrus Harding and Gideon Spilett, before sleeping, conversed long about

the matter. They asked themselves if by chance this incident might n ot have

some connection with the inexplicable way in which the engineer had been

saved, and the other peculiar circumstances which had struck them at

different times. However, Cyrus Harding, after having discussed the pros

and cons of the question, ended by saying, --

"In short, would you like to know my opinion, my dear Spilett?"

"Yes, Cyrus."

"Well, then, it is this: however minutely we explore the island, we shall find nothing."

The next day Pencroft set to work. He did not mean to build a boat w

boards and planking, but simply a flat-bottomed canoe, which would be well

suited for navigating the Mercy--above all, for approaching its sour ce,

where the water would naturally be shallow. Pieces of bark, fastened one to

the other, would form a light boat; and in case of natural obstacles, which

would render a portage necessary, it would be easily carried. Pencro ft

intended to secure the pieces of bark by means of nails, to insure the

canoe being water-tight.

It was first necessary to select the trees which would afford a strong

and supple bark for the work. Now the last storm had brought down a number

of large birch-trees, the bark of which would be perfectly suited fo

r their

purpose. Some of these trees lay on the ground, and they had only to be

barked, which was the most difficult thing of all, owing to the imperfect

tools which the settlers possessed. However, they overcame all difficulties.

While the sailor, seconded by the engineer, thus occupied himself without

losing an hour, Gideon Spilett and Herbert were not idle.

They were made purveyors to the colony. The reporter could not but a dmire

the boy, who had acquired great skill in handling the bow and spear.

Herbert also showed great courage and much of that presence of mind which

may justly be called "the reasoning of bravery." These two companion s of

the chase, remembering Cyrus Harding's recommendations, did not go b eyond a

radius of two miles round Granite House; but the borders of the fore st

furnished a sufficient tribute of agoutis, capybaras, kangaroos, pec caries,

etc.; and if the result from the traps was less than during the cold , still

the warren yielded its accustomed quota, which might have fed all the

colony in Lincoln Island.

Often during these excursions, Herbert talked with Gideon Spilett on the

incident of the bullet, and the deductions which the engineer drew from it,

and one day--it was the 26th of October--he said--"But, Mr. Spilett, do you

not think it very extraordinary that, if any castaways have landed o ${\bf n}$ the

island, they have not yet shown themselves near Granite House?"

"Very astonishing if they are still here," replied the reporter, "but not

astonishing at all if they are here no longer!"

"So you think that these people have already quitted the island?" returned Herbert.

"It is more than probable, my boy; for if their stay was prolonged, and

above all, if they were still here, some accident would have at last

betrayed their presence."

"But if they were able to go away," observed the lad, "they could no

t have been castaways."

"No, Herbert; or, at least, they were what might be called provision al castaways. It is very possible that a storm may have driven them to the island without destroying their vessel, and that, the storm over, they went away again."

"I must acknowledge one thing," said Herbert, "it is that Captain Ha rding appears rather to fear than desire the presence of human beings on o ur island."

"In short," responded the reporter, "there are only Malays who frequent these seas, and those fellows are ruffians which it is best to avoid ."

"It is not impossible, Mr. Spilett," said Herbert, "that some day or other we may find traces of their landing."

"I do not say no, my boy. A deserted camp, the ashes of a fire, woul d put us on the track, and this is what we will look for in our next exped ition."

The day on which the hunters spoke thus, they were in a part of the forest near the Mercy, remarkable for its beautiful trees. There, am ong

others, rose, to a height of nearly 200 feet above the ground, some of

those superb coniferae, to which, in New Zealand, the natives give the name of Kauris.

"I have an idea, Mr. Spilett," said Herbert. "If I were to climb to the

top of one of these kauris, I could survey the country for an immens e distance round."

"The idea is good," replied the reporter; "but could you climb to the top of those giants?"

"I can at least try, " replied Herbert.

The light and active boy then sprang on the first branches, the arrangement of which made the ascent of the kauri easy, and in a few minutes he arrived at the summit, which emerged from the immense pla

in of verdure.

From this elevated situation his gaze extended over all the southern

portion of the island, from Claw Cape on the southeast, to Reptile E nd on

the southwest. To the northwest rose Mount Franklin, which concealed a

great part of the horizon.

But Herbert, from the height of his observatory, could examine all the

yet unknown portion of the island, which might have given shelter to the

strangers whose presence they suspected.

The lad looked attentively. There was nothing in sight on the sea, n ot a

sail, neither on the horizon nor near the island. However, as the bank of

trees hid the shore, it was possible that a vessel, especially if de prived

of her masts, might lie close to the land and thus be invisible to H erbert.

Neither in the forests of the Far West was anything to be seen. The wood

formed an impenetrable screen, measuring several square miles, without a

break or an opening. It was impossible even to follow the course of the

Mercy, or to ascertain in what part of the mountain it took its sour ce.

Perhaps other creeks also ran towards the west, but they could not be seen.

But at last, if all indication of an encampment escaped Herbert's sight

could he not even catch a glimpse of smoke, the faintest trace of which

would be easily discernible in the pure atmosphere?

For an instant Herbert thought he could perceive a slight smoke in the

west, but a more attentive examination showed that he was mistaken.

strained his eyes in every direction, and his sight was excellent. N \circ ,

decidedly there was nothing there.

Herbert descended to the foot of the kauri, and the two sportsmen returned to Granite House. There Cyrus Harding listened to the lad's

account, shook his head and said nothing. It was very evident that no

decided opinion could be pronounced on this question until after a $\ensuremath{\mathtt{c}}$ omplete

exploration of the island.

Two days after--the 28th of October--another incident occurred, for which

an explanation was again required.

While strolling along the shore about two miles from Granite House, Herbert and Neb were fortunate enough to capture a magnificent specimen of

the order of chelonia. It was a turtle of the species Midas, the edible

green turtle, so called from the color both of its shell and fat.

Herbert caught sight of this turtle as it was crawling among the rocks to reach the sea.

"Help, Neb, help!" he cried.

Neb ran up.

"What a fine animal!" said Neb; "but how are we to catch it?"

"Nothing is easier, Neb," replied Herbert. "We have only to turn the

turtle on its back, and it cannot possibly get away. Take your spear and do as I do."

The reptile, aware of danger, had retired between its carapace and plastron. They no longer saw its head or feet, and it was motionless as a rock.

Herbert and Neb then drove their sticks underneath the animal, and b \mathbf{y}

their united efforts managed without difficulty to turn it on its back. The

turtle, which was three feet in length, would have weighed at least four hundred pounds.

"Capital!" cried Neb; "this is something which will rejoice friend Pencroft's heart."

In fact, the heart of friend Pencroft could not fail to be rejoiced, for

the flesh of the turtle, which feeds on wrack-grass, is extremely sa vory.

At this moment the creature's head could be seen, which was small, f lat,

but widened behind by the large temporal fossae hidden under the lon g roof.

"And now, what shall we do with our prize?" said Neb. "We can't drag it

to Granite House!"

"Leave it here, since it cannot turn over," replied Herbert, "and we will

come back with the cart to fetch it."

"That is the best plan."

However, for greater precaution, Herbert took the trouble, which Neb

deemed superfluous, to wedge up the animal with great stones; after which

the two hunters returned to Granite House, following the beach, which the

tide had left uncovered. Herbert, wishing to surprise Pencroft, said

nothing about the "superb specimen of a chelonian" which they had turned

over on the sand; but, two hours later, he and Neb returned with the cart

to the place where they had left it. The "superb specimen of a chelo nian"

was no longer there!

Neb and Herbert stared at each other first; then they stared about them.

It was just at this spot that the turtle had been left. The lad even found

the stones which he had used, and therefore he was certain of not be ing mistaken.

"Well!" said Neb, "these beasts can turn themselves over, then?''

"It appears so," replied Herbert, who could not understand it at all , and $% \left(1\right) =\left(1\right) +\left(1\right)$

was gazing at the stones scattered on the sand.

"Well, Pencroft will be disgusted!"

"And Captain Harding will perhaps be very perplexed how to explain this

disappearance, " thought Herbert.

"Look here," said Neb, who wished to hide his ill-luck, "we won't speak

about it."

"On the contrary, Neb, we must speak about it," replied Herbert.

And the two, taking the cart, which there was now no use for, return ed to $\dot{}$

Granite House.

Arrived at the dockyard, where the engineer and the sailor were work ing

together, Herbert recounted what had happened.

"Oh! the stupids!" cried the sailor, "to have let at least fifty mea ls escape!"

"But, Pencroft," replied Neb, "it wasn't our fault that the beast go t away; as I tell you, we had turned it over on its back!"

"Then you didn't turn it over enough!" returned the obstinate sailor .

"Not enough!" cried Herbert.

And he told how he had taken care to wedge up the turtle with stones .

"It is a miracle, then!" replied Pencroft.

"I thought, captain," said Herbert, "that turtles, once placed on their backs, could not regain their feet, especially when they are of a large size?'

"That is true, my boy," replied Cyrus Harding.

"Then how did it manage?"

"At what distance from the sea did you leave this turtle?" asked the engineer, who, having suspended his work, was reflecting on this incident.

"Fifteen feet at the most," replied Herbert.

"And the tide was low at the time?"

"Yes, captain."

"Well," replied the engineer, "what the turtle could not do on the s and it might have been able to do in the water. It turned over when the tide overtook it, and then quietly returned to the deep sea."

"Oh! what stupids we were!" cried Neb.

"That is precisely what I had the honor of telling you before!" returned the sailor.

Cyrus Harding had given this explanation, which, no doubt, was

admissible. But was he himself convinced of the accuracy of this explanation? It cannot be said that he was.

Chapter 2

On the 9th of October the bark canoe was entirely finished. Pencroft had

kept his promise, and a light boat, the shell of which was joined to gether

by the flexible twigs of the crejimba, had been constructed in five days. A

seat in the stern, a second seat in the middle to preserve the equilibrium,

a third seat in the bows, rowlocks for the two oars, a scull to stee r with,

completed the little craft, which was twelve feet long, and did not weigh

more than two hundred pounds. The operation of launching it was extremely

simple. The canoe was carried to the beach and laid on the sand before

Granite House, and the rising tide floated it. Pencroft, who leaped in

directly, maneuvered it with the scull and declared it to be just the

thing for the purpose to which they wished to put it.

"Hurrah!" cried the sailor, who did not disdain to celebrate thus his own triumph. "With this we could go round--"

"The world?" asked Gideon Spilett.

"No, the island. Some stones for ballast, a mast and a sail, which the $\ensuremath{\text{be}}$

captain will make for us some day, and we shall go splendidly! Well,

captain--and you, Mr. Spilett; and you, Herbert; and you, Neb--aren't you

coming to try our new vessel? Come along! we must see if it will car ry all

five of us!"

This was certainly a trial which ought to be made. Pencroft soon brought

the canoe to the shore by a narrow passage among the rocks, and it was

agreed that they should make a trial of the boat that day by following the

shore as far as the first point at which the rocks of the south ende d.

As they embarked, Neb cried, --

"But your boat leaks rather, Pencroft."

"That's nothing, Neb," replied the sailor; "the wood will get season ed.

In two days there won't be a single leak, and our boat will have no more

water in her than there is in the stomach of a drunkard. Jump in!"

They were soon all seated, and Pencroft shoved off. The weather was magnificent, the sea as calm as if its waters were contained within the

narrow limits of a lake. Thus the boat could proceed with as much se curity

as if it was ascending the tranquil current of the Mercy.

Neb took one of the oars, Herbert the other, and Pencroft remained in the $\ensuremath{\text{n}}$

stern in order to use the scull.

The sailor first crossed the channel, and steered close to the south ern

point of the islet. A light breeze blew from the south. No roughness was

found either in the channel or the green sea. A long swell, which the canoe

scarcely felt, as it was heavily laden, rolled regularly over the su rface

of the water. They pulled out about half a mile distant from the shore,

that they might have a good view of Mount Franklin.

Pencroft afterwards returned towards the mouth of the river. The boa

then skirted the shore, which, extending to the extreme point, hid a ll

Tadorn's Fens.

This point, of which the distance was increased by the irregularity of

the coast, was nearly three miles from the Mercy. The settlers resol ved to

go to its extremity, and only go beyond it as much as was necessary to take

a rapid survey of the coast as far as Claw Cape.

The canoe followed the windings of the shore, avoiding the rocks which

fringed it, and which the rising tide began to cover. The cliff grad ually

sloped away from the mouth of the river to the point. This was forme d of

granite reeks, capriciously distributed, very different from the cliff at

Prospect Heights, and of an extremely wild aspect. It might have been said

that an immense cartload of rocks had been emptied out there. There was no

vegetation on this sharp promontory, which projected two miles from the

forest, and it thus represented a giant's arm stretched out from a leafy sleeve.

The canoe, impelled by the two oars, advanced without difficulty. Gideon

Spilett, pencil in one hand and notebook in the other, sketched the coast in

bold strokes. Neb, Herbert, and Pencroft chatted, while examining this part

of their domain, which was new to them, and, in proportion as the canoe

proceeded towards the south, the two Mandible Capes appeared to move , and

surround Union Bay more closely.

As to Cyrus Harding, he did not speak; he simply gazed, and by the mistrust which his look expressed, it appeared that he was examining some strange country.

In the meantime, after a voyage of three-quarters of an hour, the canoe

reached the extremity of the point, and Pencroft was preparing to return,

when Herbert, rising, pointed to a black object, saying, --

"What do I see down there on the beach?"

All eyes turned towards the point indicated.

"Why," said the reporter, "there is something. It looks like part of a wreck half buried in the sand."

"Ah!" cried Pencroft, "I see what it is!"

"What?" asked Neb.

"Barrels, barrels, which perhaps are full," replied the sailor.

"Pull to the shore, Pencroft!" said Cyrus.

A few strokes of the oar brought the canoe into a little creek, and its passengers leaped on shore.

Pencroft was not mistaken. Two barrels were there, half buried in the

sand, but still firmly attached to a large chest, which, sustained by them,

had floated to the moment when it stranded on the beach.

"There has been a wreck, then, in some part of the island," said Her

bert.

"Evidently," replied Spilett.

"But what's in this chest?" cried Pencroft, with very natural impati ence.

"What's in this chest? It is shut up, and nothing to open it with! W $\mbox{ell},$

perhaps a stone--"

And the sailor, raising a heavy block, was about to break in one of the sides of the chest, when the engineer arrested his hand.

"Pencroft," said he, "can you restrain your impatience for one hour only?"

But, captain, just think! Perhaps there is everything we want in the re!"

"We shall find that out, Pencroft," replied the engineer; "but trust to

me, and do not break the chest, which may be useful to us. We must convey

it to Granite House, where we can open it easily, and without breaking it.

It is quite prepared for a voyage; and since it has floated here, it may

just as well float to the mouth of the river."

"You are right, captain, and I was wrong, as usual," replied the sai lor.

The engineer's advice was good. In fact, the canoe probably would no

have been able to contain the articles possibly enclosed in the ches t,

which doubtless was heavy, since two empty barrels were required to buoy it

up. It was, therefore, much better to tow it to the beach at Granite House.

And now, whence had this chest come? That was the important question

Cyrus Harding and his companions looked attentively around them, and

examined the shore for several hundred steps. No other articles or pieces

of wreck could be found. Herbert and Neb climbed a high rock to survey the

sea, but there was nothing in sight--neither a dismasted vessel nor a ship

under sail.

However, there was no doubt that there had been a wreck. Perhaps this

incident was connected with that of the bullet? Perhaps strangers had

landed on another part of the island? Perhaps they were still there? But

the thought which came naturally to the settlers was, that these str angers

could not be Malay pirates, for the chest was evidently of American or

European make.

All the party returned to the chest, which was of an unusually large

size. It was made of oak wood, very carefully closed and covered wit h a

thick hide, which was secured by copper nails. The two great barrels,

hermetically sealed, but which sounded hollow and empty, were fasten ed to

its sides by strong ropes, knotted with a skill which Pencroft directly

pronounced sailors alone could exhibit. It appeared to be in a perfect

state of preservation, which was explained by the fact that it had stranded

on a sandy beach, and not among rocks. They had no doubt whatever, o

examining it carefully, that it had not been long in the water, and that

its arrival on this coast was recent. The water did not appear to have

penetrated to the inside, and the articles which it contained were \boldsymbol{n} o doubt

uninjured.

It was evident that this chest had been thrown overboard from some dismasted vessel driven towards the island, and that, in the hope that it

would reach the land, where they might afterwards find it, the passe ngers

had taken the precaution to buoy it up by means of this floating app aratus.

"We will tow this chest to Granite House," said the engineer, "where we

can make an inventory of its contents; then, if we discover any of t

survivors from the supposed wreck, we can return it to those to whom it

belongs. If we find no one--"

"We will keep it for ourselves!" cried Pencroft. "But what in the world

can there be in it?"

The sea was already approaching the chest, and the high tide would evidently float it. One of the ropes which fastened the barrels was

partly

unlashed and used as a cable to unite the floating apparatus with the

canoe. Pencroft and Neb then dug away the sand with their oars, so a s to

facilitate the moving of the chest, towing which the boat soon began to

double the point, to which the name of Flotsam Point was given.

The chest was heavy, and the barrels were scarcely sufficient to kee p it

above water. The sailor also feared every instant that it would get loose

and sink to the bottom of the sea. But happily his fears were not re alized,

and an hour and a half after they set out--all that time had been taken up

in going a distance of three miles--the boat touched the beach below Granite

House.

Canoe and chest were then hauled up on the sands; and as the tide was

then going out, they were soon left high and dry. Neb, hurrying home

brought back some tools with which to open the chest in such a way t hat it

might be injured as little as possible, and they proceeded to its inventory. Pencroft did not try to hide that he was greatly excited.

The sailor began by detaching the two barrels, which, being in good condition, would of course be of use. Then the locks were forced with a

cold chisel and hammer, and the lid thrown back. A second casing of zinc

lined the interior of the chest, which had been evidently arranged that the

articles which it enclosed might under any circumstances be sheltere d from damp.

"Oh!" cried Neb, "suppose it's jam!

"I hope not," replied the reporter.

"If only there was -- " said the sailor in a low voice.

"What?" asked Neb, who overheard him.

"Nothing!"

The covering of zinc was torn off and thrown back over the sides of the

chest, and by degrees numerous articles of very varied character wer

produced and strewn about on the sand. At each new object Pencroft uttered

fresh hurrahs, Herbert clapped his hands, and Neb danced up and down . There

were books which made Herbert wild with joy, and cooking utensils which Neb

covered with kisses!

In short, the colonists had reason to be extremely satisfied, for th is

chest contained tools, weapons, instruments, clothes, books; and this is

the exact list of them as stated in Gideon Spilett's note-book:

--Tools:--3 knives with several blades, 2 woodmen's axes, 2 carpenter's

hatchets, 3 planes, 2 adzes, 1 twibil or mattock, 6 chisels, 2 files , 3

hammers, 3 gimlets, 2 augers, 10 bags of nails and screws, 3 saws of

different sizes, 2 boxes of needles.

Weapons: --2 flint-lock guns, 2 for percussion caps, 2 breach-loader carbines, 5 boarding cutlasses, 4 sabers, 2 barrels of powder, each containing twenty-five pounds; 12 boxes of percussion caps.

Instruments: -- 1 sextant, 1 double opera-glass, 1 telescope, 1 box of

mathematical instruments, 1 mariner's compass, 1 Fahrenheit thermome ter, 1

aneroid barometer, 1 box containing a photographic apparatus, object-glass,

plates, chemicals, etc.

Clothes: -2 dozen shirts of a peculiar material resembling wool, but evidently of a vegetable origin; 3 dozen stockings of the same material.

Utensils:-1 iron pot, 6 copper saucepans, 3 iron dishes, 10 metal plates,

2 kettles, 1 portable stove, 6 table-knives,

Books:-1 Bible, 1 atlas, 1 dictionary of the different Polynesian id ioms.

1 dictionary of natural science, in six volumes; 3 reams of white paper, 2

books with blank pages.

"It must be allowed," said the reporter, after the inventory had been

made, "that the owner of this chest was a practical man! Tools, weap ons,

instruments, clothes, utensils, books--nothing is wanting! It might really

be said that he expected to be wrecked, and had prepared for it beforehand."

"Nothing is wanting, indeed," murmured Cyrus Harding thoughtfully.

"And for a certainty," added Herbert, "the vessel which carried this chest and its owner was not a Malay pirate!"

"Unless," said Pencroft, "the owner had been taken prisoner by pirat es--"

"That is not admissible," replied the reporter. "It is more probable that

an American or European vessel has been driven into this quarter, an d that

her passengers, wishing to save necessaries at least, prepared this chest

and threw it overboard."

"Is that your opinion, captain?" asked Herbert.

"Yes, my boy," replied the engineer, "that may have been the case. I t is

possible that at the moment, or in expectation of a wreck, they collected

into this chest different articles of the greatest use in hopes of finding

it again on the coast--"

"Even the photographic box!" exclaimed the sailor incredulously.

"As to that apparatus," replied Harding, "I do not quite see the use of

it; and a more complete supply of clothes or more abundant ammunition would

have been more valuable to us as well as to any other castaways!"

"But isn't there any mark or direction on these instruments, tools, or

books, which would tell us something about them?" asked Gideon Spile tt.

That might be ascertained. Each article was carefully examined, especially the books, instruments and weapons. Neither the weapons n or the

instruments, contrary to the usual custom, bore the name of the make r; they

were, besides, in a perfect state, and did not appear to have been used

The same peculiarity marked the tools and utensils; all were new, which

proved that the articles had not been taken by chance and thrown int o the

chest, but, on the contrary, that the choice of things had been well

considered and arranged with care. This was also indicated by the se cond

case of metal which had preserved them from damp, and which could no t have

been soldered in a moment of haste.

As to the dictionaries of natural science and Polynesian idioms, bot h

were English; but they neither bore the name of the publisher nor the date

of publication.

The same with the Bible printed in English, in quarto, remarkable from a

typographic point of view, and which appeared to have been often use d.

The atlas was a magnificent work, comprising maps of every country in the

world, and several planispheres arranged upon Mercator's projection, and of

which the nomenclature was in French--but which also bore neither date nor

name of publisher.

There was nothing, therefore, on these different articles by which they

could be traced, and nothing consequently of a nature to show the nationality of the vessel which must have recently passed these shor es.

But, wherever the chest might have come from, it was a treasure to the

settlers on Lincoln Island. Till then, by making use of the productions of

nature, they had created everything for themselves, and, thanks to their

intelligence, they had managed without difficulty. But did it not ap pear as

if Providence had wished to reward them by sending them these productions

of human industry? Their thanks rose unanimously to Heaven.

However, one of them was not quite satisfied: it was Pencroft. It appeared that the chest did not contain something which he evidently held

in great esteem, for in proportion as they approached the bottom of the

box, his hurrahs diminished in heartiness, and, the inventory finish ed, he

was heard to mutter these words:--"That's all very fine, but you can see

that there is nothing for me in that box!"

This led Neb to say, --

"Why, friend Pencroft, what more do you expect?"

"Half a pound of tobacco," replied Pencroft seriously, "and nothing would

have been wanting to complete my happiness!"

No one could help laughing at this speech of the sailor's.

But the result of this discovery of the chest was, that it was now ${\tt m}$ ore

than ever necessary to explore the island thoroughly. It was therefore

agreed that the next morning at break of day, they should set out, by

ascending the Mercy so as to reach the western shore. If any castawa ys had

landed on the coast, it was to be feared they were without resources , and

it was therefore the more necessary to carry help to them without de lay.

During the day the different articles were carried to Granite House,

where they were methodically arranged in the great hall. This day--t he 29th

of October--happened to be a Sunday, and, before going to bed, Herbert asked

the engineer if he would not read them something from the Gospel.

"Willingly," replied Cyrus Harding.

He took the sacred volume, and was about to open it, when Pencroft stopped him, saying,--"Captain, I am superstitious. Open at random a nd read

the first verse which, your eye falls upon. We will see if it applie s to

our situation."

Cyrus Harding smiled at the sailor's idea, and, yielding to his wish , he

opened exactly at a place where the leaves were separated by a marke r.

Immediately his eyes were attracted by a cross which, made with a pencil,

was placed against the eighth verse of the seventh chapter of the Go spel of

St. Matthew. He read the verse, which was this:--

"For every one that asketh receiveth; and he that seeketh findeth."

Chapter 3

The next day, the 30th of October, all was ready for the proposed exploring

expedition, which recent events had rendered so necessary. In fact, things

had so come about that the settlers in Lincoln Island no longer need ed help

for themselves, but were even able to carry it to others.

It was therefore agreed that they should ascend the Mercy as far as the

river was navigable. A great part of the distance would thus be traversed

without fatigue, and the explorers could transport their provisions and

arms to an advanced point in the west of the island.

It was necessary to think not only of the things which they should take

with them, but also of those which they might have by chance to bring back

to Granite House. If there had been a wreck on the coast, as was supposed,

there would be many things cast up, which would be lawfully their prizes.

In the event of this, the cart would have been of more use than the light

canoe, but it was heavy and clumsy to drag, and therefore more difficult to

use; this led Pencroft to express his regret that the chest had not contained, besides "his halfpound of tobacco," a pair of strong New Jersey

horses, which would have been very useful to the colony!

The provisions, which Neb had already packed up, consisted of a store of

meat and of several gallons of beer, that is to say enough to sustain them

for three days, the time which Harding assigned for the expedition. They

hoped besides to supply themselves on the road, and Neb took care no t to

forget the portable stove.

The only tools the settlers took were the two woodmen's axes, which they

could use to cut a path through the thick forests, as also the instruments,

the telescope and pocket-compass.

For weapons they selected the two flint-lock guns, which were likely to

be more useful to them than the percussion fowling-pieces, the first only

requiring flints which could be easily replaced, and the latter need ing

fulminating caps, a frequent use of which would soon exhaust their limited

stock. However, they took also one of the carbines and some cartridg es. As

to the powder, of which there was about fifty pounds in the barrel,

a small

supply of it had to be taken, but the engineer hoped to manufacture an

explosive substance which would allow them to husband it. To the fir earms

were added the five cutlasses well sheathed in leather, and, thus su pplied,

the settlers could venture into the vast forest with some chance of success.

It is useless to add that Pencroft, Herbert, and Neb, thus armed, we re at

the summit of their happiness, although Cyrus Harding made them promise not

to fire a shot unless it was necessary.

At six in the morning the canoe put off from the shore; all had embarked,

including Top, and they proceeded to the mouth of the Mercy.

The tide had begun to come up half an hour before. For several hours

therefore, there would be a current, which it was well to profit by, for

later the ebb would make it difficult to ascend the river. The tide was

already strong, for in three days the moon would be full, and it was enough

to keep the boat in the center of the current, where it floated swiftly

along between the high banks without its being necessary to increase its

speed by the aid of the oars. In a few minutes the explorers arrived at the

angle formed by the Mercy and exactly at the place where, seven mont hs

before, Pencroft had made his first raft of wood.

After this sudden angle the river widened and flowed under the shade of great evergreen firs.

The aspect of the banks was magnificent. Cyrus Harding and his companions

could not but admire the lovely effects so easily produced by nature with

water and trees. As they advanced the forest element diminished. On the

right bank of the river grew magnificent specimens of the ulmaceae tribe,

the precious elm, so valuable to builders, and which withstands well the

action of water. Then there were numerous groups belonging to the same

family, among others one in particular, the fruit of which produces a very

useful oil. Further on, Herbert remarked the lardizabala, a twining shrub

which, when bruised in water, furnishes excellent cordage; and two or three

ebony trees of a beautiful black, crossed with capricious veins.

From time to time, in certain places where the landing was easy, the

canoe was stopped, when Gideon Spilett, Herbert, and Pencroft, their guns

in their hands, and preceded by Top, jumped on shore. Without expecting

game, some useful plant might be met with, and the young naturalist was

delighted with discovering a sort of wild spinach, belonging to the order

of chenopodiaceae, and numerous specimens of cruciferae, belonging to the

cabbage tribe, which it would certainly be possible to cultivate by transplanting. There were cresses, horseradish, turnips, and lastly, little

branching hairy stalks, scarcely more than three feet high, which produced

brownish grains.

Do you know what this plant is?" asked Herbert of the sailor.

"Tobacco!" cried Pencroft, who evidently had never seen his favorite plant except in the bowl of his pipe.

"No, Pencroft," replied Herbert; "this is not tobacco, it is mustard."

"Mustard be hanged!" returned the sailor; "but if by chance you happ en to come across a tobacco-plant, my boy, pray don't scorn that!"

"We shall find it some day!" said Gideon Spilett.

"Well!" exclaimed Pencroft, "when that day comes, I do not know what more

will be wanting in our island!"

These different plants, which had been carefully rooted up, were car ried

to the canoe, where Cyrus Harding had remained buried in thought.

The reporter, Herbert, and Pencroft in this manner frequently disembarked, sometimes on the right bank, sometimes on the left bank of the Mercy.

The latter was less abrupt, but the former more wooded. The engineer ascertained by consulting his pocket-compass that the direction of t

he

river from the first turn was obviously southwest and northeast, and nearly

straight for a length of about three miles. But it was to be suppose d that

this direction changed beyond that point, and that the Mercy continued to

the north-west, towards the spurs of Mount Franklin, among which the river rose.

During one of these excursions, Gideon Spilett managed to get hold of two

couples of living gallinaceae. They were birds with long, thin beaks, lengthened necks, short wings, and without any appearance of a tail.

Herbert rightly gave them the name of tinamous, and it was resolved that

they should be the first tenants of their future poultry-yard.

But till then the guns had not spoken, and the first report which aw oke

the echoes of the forest of the Far West was provoked by the appeara $nce\ of$

a beautiful bird, resembling the kingfisher.

"I recognize him!" cried Pencroft, and it seemed as if his gun went off by itself.

"What do you recognize?" asked the reporter.

"The bird which escaped us on our first excursion, and from which we gave

the name to that part of the forest."

"A jacamar!" cried Herbert.

It was indeed a jacamar, of which the plumage shines with a metallic

luster. A shot brought it to the ground, and Top carried it to the canoe.

At the same time half a dozen lories were brought down. The lory is of the

size of a pigeon, the plumage dashed with green, part of the wings c rimson,

and its crest bordered with white. To the young boy belonged the hon or of

this shot, and he was proud enough of it. Lories are better food than the

jacamar, the flesh of which is rather tough, but it was difficult to

persuade Pencroft that he had not killed the king of eatable birds. It was

ten o'clock in the morning when the canoe reached a second angle of

the

Mercy, nearly five miles from its mouth. Here a halt was made for br eakfast

under the shade of some splendid trees. The river still measured fro m sixty

to seventy feet in breadth, and its bed from five to six feet in dep th. The

engineer had observed that it was increased by numerous affluents, but they

were unnavigable, being simply little streams. As to the forest, including

Jacamar Wood, as well as the forests of the Far West, it extended as far as

the eye could reach. In no place, either in the depths of the forest s or

under the trees on the banks of the Mercy, was the presence of man revealed. The explorers could not discover one suspicious trace. It was

evident that the woodman's axe had never touched these trees, that the

pioneer's knife had never severed the creepers hanging from one trun \boldsymbol{k} to

another in the midst of tangled brushwood and long grass. If castawa ys had

landed on the island, they could not have yet quitted the shore, and it was

not in the woods that the survivors of the supposed shipwreck should be sought.

The engineer therefore manifested some impatience to reach the western

coast of Lincoln Island, which was at least five miles distant according to

his estimation.

The voyage was continued, and as the Mercy appeared to flow not towards

the shore, but rather towards Mount Franklin, it was decided that the

should use the boat as long as there was enough water under its keel to

float it. It was both fatigue spared and time gained, for they would have

been obliged to cut a path through the thick wood with their axes. But soon

the flow completely failed them, either the tide was going down, and it was

about the hour, or it could no longer be felt at this distance from the

mouth of the Mercy. They had therefore to make use of the oars. Herb ert and

Neb each took one, and Pencroft took the scull. The forest soon became less

dense, the trees grew further apart and often quite isolated. But the

further they were from each other the more magnificent they appeared , profiting, as they did, by the free, pure air which circulated aroun d them.

What splendid specimens of the flora of this latitude! Certainly the ir

presence would have been enough for a botanist to name without hesit ation

the parallel which traversed Lincoln Island.

"Eucalypti!" cried Herbert.

They were, in fact, those splendid trees, the giants of the extratro pical

zone, the congeners of the Australian and New Zealand eucalyptus, bo

situated under the same latitude as Lincoln Island. Some rose to a height

of two hundred feet. Their trunks at the base measured twenty feet in

circumference, and their bark was covered by a network of farrows containing a red, sweet-smelling gum. Nothing is more wonderful or m ore

singular than those enormous specimens of the order of the myrtaceae, with

their leaves placed vertically and not horizontally, so that an edge and

not a surface looks upwards, the effect being that the sun's rays penetrate

more freely among the trees.

The ground at the foot of the eucalypti was carpeted with grass, and from

the bushes escaped flights of little birds, which glittered in the sunlight

like winged rubies.

"These are something like trees!" cried Neb; "but are they good for anything?"

"Pooh!" replied Pencroft. "Of course there are vegetable giants as well

as human giants, and they are no good, except to show themselves at fairs!"

"I think that you are mistaken, Pencroft," replied Gideon Spilett, " and

that the wood of the eucalyptus has begun to be very advantageously employed in cabinet-making."

"And I may add," said Herbert, "that the eucalyptus belongs to a family $\ensuremath{\text{I}}$

which comprises many useful members; the guava-tree, from whose fruit guava

jelly is made; the clove-tree, which produces the spice; the pomegra

nate-

tree, which bears pomegranates; the Eugeacia Cauliflora, the fruit of which

is used in making a tolerable wine; the Ugui myrtle, which contains an

excellent alcoholic liquor; the Caryophyllus myrtle, of which the bark

forms an esteemed cinnamon; the Eugenia Pimenta, from whence comes J amaica

pepper; the common myrtle, from whose buds and berries spice is some times

made; the Eucalyptus manifera, which yields a sweet sort of manna; the

Guinea Eucalyptus, the sap of which is transformed into beer by fermentation; in short, all those trees known under the name of gumtrees

or iron-bark trees in Australia, belong to this family of the myrtac eae,

which contains forty-six genera and thirteen hundred species!"

The lad was allowed to run on, and he delivered his little botanical

lecture with great animation. Cyrus Harding listened smiling, and Pencroft

with an indescribable feeling of pride.

"Very good, Herbert," replied Pencroft, "but I could swear that all those

useful specimens you have just told us about are none of them giants like

these!"

"That is true, Pencroft."

"That supports what I said," returned the sailor, "namely, that these giants are good for nothing!"

"There you are wrong, Pencroft," said the engineer; "these gigantic eucalypti, which shelter us, are good for something."

"And what is that?"

"To render the countries which they inhabit healthy. Do you know wha t they are called in Australia and New Zealand?"

"No, captain."

"They are called 'fever trees.'"

"Because they give fevers?"

"No, because they prevent them!"

"Good. I must note that," said the reporter.

"Note it then, my dear Spilett; for it appears proved that the presence

of the eucalyptus is enough to neutralize miasmas. This natural anti dote

has been tried in certain countries in the middle of Europe and the north

of Africa where the soil was absolutely unhealthy, and the sanitary condition of the inhabitants has been gradually ameliorated. No more

intermittent fevers prevail in the regions now covered with forests of the

myrtaceae. This fact is now beyond doubt, and it is a happy circumst ance

for us settlers in Lincoln Island."

"Ah! what an island! What a blessed island!" cried Pencroft. "I tell you,

it wants nothing--unless it is--"

"That will come, Pencroft, that will be found," replied the engineer;

"but now we must continue our voyage and push on as far as the river will

carry our boat!"

The exploration was therefore continued for another two miles in the

midst of country covered with eucalypti, which predominated in the woods of

this portion of the island. The space which they occupied extended a s far

as the eye could reach on each side of the Mercy, which wound along between

high green banks. The bed was often obstructed by long weeds, and ev en by

pointed rocks, which rendered the navigation very difficult. The act ion of

the oars was prevented, and Pencroft was obliged to push with a pole . They

found also that the water was becoming shallower and shallower, and that

the canoe must soon stop. The sun was already sinking towards the horizon,

and the trees threw long shadows on the ground. Cyrus Harding, seein g that

he could not hope to reach the western coast of the island in one journey,

resolved to camp at the place where any further navigation was prevented

by want of water. He calculated that they were still five or six mil es from

the coast, and this distance was too great for them to attempt durin g the

night in the midst of unknown woods.

The boat was pushed on through the forest, which gradually became thicker

again, and appeared also to have more inhabitants; for if the eyes of the

sailor did not deceive him, he thought he saw bands of monkeys springing

among the trees. Sometimes even two or three of these animals stoppe d at a

little distance from the canoe and gazed at the settlers without manifesting any terror, as if, seeing men for the first time, they had not

yet learned to fear them. It would have been easy to bring down one of

these quadramani with a gunshot, and Pencroft was greatly tempted to fire,

but Harding opposed so useless a massacre. This was prudent, for the monkeys, or apes rather, appearing to be very powerful and extremely active, it was useless to provoke an unnecessary aggression, and the creatures might, ignorant of the power of the explorers' firearms, h

ave attacked them. It is true that the sailor considered the monkeys fro

purely alimentary point of view, for those animals which are herbivo rous

make very excellent game; but since they had an abundant supply of provisions, it was a pity to waste their ammunition.

Towards four o'clock, the navigation of the Mercy became exceedingly

difficult, for its course was obstructed by aquatic plants and rocks . The

banks rose higher and higher, and already they were approaching the spurs

of Mount Franklin. The source could not be far off, since it was fed by the

water from the southern slopes of the mountain.

"In a quarter of an hour," said the sailor, "we shall be obliged to stop, captain."

"Very well, we will stop, Pencroft, and we will make our encampment for the night."

"At what distance are we from Granite House?" asked Herbert.

"About seven miles," replied the engineer, "taking into calculation, however, the detours of the river, which has carried us to the north west."

"Shall we go on?" asked the reporter.

"Yes, as long as we can," replied Cyrus Harding. "To-morrow, at brea k of

day, we will leave the canoe, and in two hours I hope we shall cross the

distance which separates us from the coast, and then we shall have the

whole day in which to explore the shore."

"Go ahead!" replied Pencroft.

But soon the boat grated on the stony bottom of the river, which was now

not more than twenty feet in breadth. The trees met like a bower ove rhead,

and caused a half-darkness. They also heard the noise of a waterfall , which

showed that a few hundred feet up the river there was a natural barrier.

Presently, after a sudden turn of the river, a cascade appeared through

the trees. The canoe again touched the bottom, and in a few minutes it was

moored to a trunk near the right bank.

It was nearly five o'clock. The last rays of the sun gleamed through the

thick foliage and glanced on the little waterfall, making the spray sparkle

with all the colors of the rainbow. Beyond that, the Mercy was lost in the

bushwood, where it was fed from some hidden source. The different st reams

which flowed into it increased it to a regular river further down, b ut here

it was simply a shallow, limpid brook.

It was agreed to camp here, as the place was charming. The colonists disembarked, and a fire was soon lighted under a clump of trees, among the branches of which Cyrus Harding and his companions could, if it was necessary, take refuge for the night.

Supper was quickly devoured, for they were very hungry, and then the re

was only sleeping to think of. But, as roarings of rather a suspicio us

night, so as to protect the sleepers with its crackling flames. Neb and

Pencroft also watched by turns, and did not spare fuel. They thought they

saw the dark forms of some wild animals prowling round the camp among the

bushes, but the night passed without incident, and the next day, the

31st of October, at five o'clock in the morning, all were on foot, ready for a start.

Chapter 4

It was six o' clock in the morning when the settlers, after a hasty breakfast, set out to reach by the shortest way, the western coast of the

island. And how long would it take to do this? Cyrus Harding had sai d two

hours, but of course that depended on the nature of the obstacles th ey

might meet with As it was probable that they would have to cut a pat

through the grass, shrubs, and creepers, they marched axe in hand, a nd with

guns also ready, wisely taking warning from the cries of the wild be asts

heard in the night.

The exact position of the encampment could be determined by the bear ing

of Mount Franklin, and as the volcano arose in the north at a distance of

less than three miles, they had only to go straight towards the sout hwest

to reach the western coast. They set out, having first carefully sec ured

the canoe. Pencroft and Neb carried sufficient provision for the lit

band for at least two days. It would not thus be necessary to hunt. The

engineer advised his companions to refrain from firing, that their p resence

might not be betrayed to any one near the shore. The first hatchet b lows

were given among the brushwood in the midst of some mastic-trees, a little

above the cascade; and his compass in his hand, Cyrus Harding led the way.

The forest here was composed for the most part of trees which had al ready

been met with near the lake and on Prospect Heights. There were deod ars,

Douglas firs, casuarinas, gum trees, eucalypti, hibiscus, cedars, an d other

trees, generally of a moderate size, for their number prevented their growth.

Since their departure, the settlers had descended the slopes which constituted the mountain system of the island, on to a dry soil, but

the

luxuriant vegetation of which indicated it to be watered either by some

subterranean marsh or by some stream. However, Cyrus Harding did not

remember having seen, at the time of his excursion to the crater, an γ other

watercourses but the Red Creek and the Mercy.

During the first part of their excursion, they saw numerous troops of

monkeys who exhibited great astonishment at the sight of men, whose appearance was so new to them. Gideon Spilett jokingly asked whether these

active and merry quadrupeds did not consider him and his companions as

degenerate brothers.

And certainly, pedestrians, hindered at each step by bushes, caught by

creepers, barred by trunks of trees, did not shine beside those supp le

animals, who, bounding from branch to branch, were hindered by nothing on

their course. The monkeys were numerous, but happily they did not manifest

any hostile disposition.

Several pigs, agoutis, kangaroos, and other rodents were seen, also two

or three koalas, at which Pencroft longed to have a shot.

"But," said he, "you may jump and play just now; we shall have one or two

words to say to you on our way back!"

At half-past nine the way was suddenly found to be barred by an unkn own

stream, from thirty to forty feet broad, whose rapid current dashed foaming

over the numerous rocks which interrupted its course. This creek was deep

and clear, but it was absolutely unnavigable.

"We are cut off!" cried Neb.

"No," replied Herbert, "it is only a stream, and we can easily swim over."

"What would be the use of that?" returned Harding. "This creek evide ntly

runs to the sea. Let us remain on this side and follow the bank, and

shall be much astonished if it does not lead us very quickly to the coast.

Forward!"

"One minute," said the reporter. "The name of this creek, my friends? Do not let us leave our geography incomplete."

"All right!" said Pencroft.

"Name it, my boy," said the engineer, addressing the lad.

"Will it not be better to wait until we have explored it to its mout h?" answered Herbert.

"Very well," replied Cyrus Harding. "Let us follow it as fast as we can without stopping."

"Still another minute!" said Pencroft.

"What's the matter?" asked the reporter.

"Though hunting is forbidden, fishing is allowed, I suppose," said the sailor.

"We have no time to lose," replied the engineer.

"Oh! five minutes!" replied Pencroft, "I only ask for five minutes to use in the interest of our breakfast!"

And Pencroft, lying down on the bank, plunged his arm into the water, and soon pulled up several dozen of fine crayfish from among the stones.

"These will be good!" cried Neb, going to the sailor's aid.

"As I said, there is everything in this island, except tobacco!" mut tered
Pencroft with a sigh.

The fishing did not take five minutes, for the crayfish were swarmin g in the creek. A bag was filled with the crustaceae, whose shells were o

cobalt blue. The settlers then pushed on.

They advanced more rapidly and easily along the bank of the river th an in

the forest. From time to time they came upon the traces of animals of a

large size who had come to quench their thirst at the stream, but no ne were

actually seen, and it was evidently not in this part of the forest that the

peccary had received the bullet which had cost Pencroft a grinder.

In the meanwhile, considering the rapid current, Harding was led to suppose that he and his companions were much farther from the wester n coast

than they had at first supposed. In fact, at this hour, the rising tide

would have turned back the current of the creek, if its mouth had on ly been

a few miles distant. Now, this effect was not produced, and the wate r

pursued its natural course. The engineer was much astonished at this , and

frequently consulted his compass, to assure himself that some turn of the

river was not leading them again into the Far West.

However, the creek gradually widened and its waters became less tumultuous. The trees on the right bank were as close together as on the

left bank, and it was impossible to distinguish anything beyond them
; but

these masses of wood were evidently uninhabited, for Top did not bar k, and

the intelligent animal would not have failed to signal the presence of any

stranger in the neighborhood.

At half-past ten, to the great surprise of Cyrus Harding, Herbert, w

was a little in front, suddenly stopped and exclaimed, --

"The sea!"

In a few minutes more, the whole western shore of the island lay extended

before the eyes of the settlers.

But what a contrast between this and the eastern coast, upon which c hance

had first thrown them. No granite cliff, no rocks, not even a sandy beach.

The forest reached the shore, and the tall trees bending over the water

were beaten by the waves. It was not such a shore as is usually form ed by

nature, either by extending a vast carpet of sand, or by grouping masses of

rock, but a beautiful border consisting of the most splendid trees. The

bank was raised a little above the level of the sea, and on this lux uriant

soil, supported by a granite base, the fine forest trees seemed to be as

firmly planted as in the interior of the island.

The colonists were then on the shore of an unimportant little harbor,

which would scarcely have contained even two or three fishing-boats. It

served as a neck to the new creek, of which the curious thing was th at its

waters, instead of joining the sea by a gentle slope, fell from a he ight of

more than forty feet, which explained why the rising tide was not fe lt up

the stream. In fact, the tides of the Pacific, even at their maximum

elevation, could never reach the level of the river, and, doubtless,

millions of years would pass before the water would have worn away the

granite and hollowed a practicable mouth.

It was settled that the name of Falls River should be given to this stream. Beyond, towards the north, the forest border was prolonged f or a

space of nearly two miles; then the trees became scarcer, and beyond that

again the picturesque heights described a nearly straight line, which ran

north and south. On the contrary, all the part of the shore between Falls

River and Reptile End was a mass of wood, magnificent trees, some st raight,

others bent, so that the long sea-swell bathed their roots. Now, it was

this coast, that is, all the Serpentine Peninsula, that was to be explored,

for this part of the shore offered a refuge to castaways, which the other

wild and barren side must have refused.

The weather was fine and clear, and from a height of a hillock on which

Neb and Pencroft had arranged breakfast, a wide view was obtained. There

was, however, not a sail in sight; nothing could be seen along the s hore as

far as the eye could reach. But the engineer would take nothing for granted

until he had explored the coast to the very extremity of the Serpent ine

Peninsula.

Breakfast was soon despatched, and at half-past eleven the captain g ave

the signal for departure. Instead of proceeding over the summit of a cliff

or along a sandy beach, the settlers were obliged to remain under cover of

the trees so that they might continue on the shore.

The distance which separated Falls River from Reptile End was about twelve miles. It would have taken the settlers four hours to do this, on a

clear ground and without hurrying themselves; but as it was they nee ded

double the time, for what with trees to go round, bushes to cut down, and

creepers to chop away, they were impeded at every step, these obstacles

greatly lengthening their journey.

There was, however, nothing to show that a shipwreck had taken place

recently. It is true that, as Gideon Spilett observed, any remains o f it

might have drifted out to sea, and they must not take it for granted that

because they could find no traces of it, a ship had not been castawa y on

the coast.

The reporter's argument was just, and besides, the incident of the bullet

proved that a shot must have been fired in Lincoln Island within thr ee

months.

It was already five o'clock, and there were still two miles between the

settlers and the extremity of the Serpentine Peninsula. It was evide nt that

after having reached Reptile End, Harding and his companions would n ot have

time to return before dark to their encampment near the source of the

Mercy. It would therefore be necessary to pass the night on the prom ontory.

But they had no lack of provisions, which was lucky, for there were no

animals on the shore, though birds, on the contrary, abound--jacamars,

couroucous, tragopans, grouse, lories, parrots, cockatoos, pheasants

pigeons, and a hundred others. There was not a tree without a nest, and not

a nest which was not full of flapping wings.

Towards seven o'clock the weary explorers arrived at Reptile End. He re

the seaside forest ended, and the shore resumed the customary appear ance of $\ensuremath{\mathsf{S}}$

a coast, with rocks, reefs, and sands. It was possible that somethin g might

be found here, but darkness came on, and the further exploration had to be

put off to the next day.

Pencroft and Herbert hastened on to find a suitable place for their camp.

Among the last trees of the forest of the Far West, the boy found se veral

thick clumps of bamboos.

"Good," said he; "this is a valuable discovery."

"Valuable?" returned Pencroft.

"Certainly," replied Herbert. "I may say, Pencroft, that the bark of the

bamboo, cut into flexible laths, is used for making baskets; that th is

bark, mashed into a paste, is used for the manufacture of Chinese paper;

that the stalks furnish, according to their size, canes and pipes an d are

used for conducting water; that large bamboos make excellent materia 1 for

building, being light and strong, and being never attacked by insect s. I

will add that by sawing the bamboo in two at the joint, keeping for the

bottom the part of the transverse film which forms the joint, useful cups

are obtained, which are much in use among the Chinese. No! you don't care

for that. But--"

"But what?"

"But I can tell you, if you are ignorant of it, that in India these bamboos are eaten like asparagus."

"Asparagus thirty feet high!" exclaimed the sailor. "And are they go od?"

"Excellent," replied Herbert. "Only it is not the stems of thirty fe

high which are eaten, but the young shoots."

"Perfect, my boy, perfect!" replied Pencroft.

 $\mbox{\tt "I will}$ also add that the pith of the young stalks, preserved in vin egar,

makes a good pickle."

"Better and better, Herbert!"

"And lastly, that the bamboos exude a sweet liquor which can be made into a very agreeable drink."

"Is that all?" asked the sailor.

"That is all!"

"And they don't happen to do for smoking?"

"No, my poor Pencroft."

Herbert and the sailor had not to look long for a place in which to pass

the night. The rocks, which must have been violently beaten by the sea

under the influence of the winds of the southwest, presented many ca vities

in which shelter could be found against the night air. But just as they

were about to enter one of these caves a loud roaring arrested them.

"Back!" cried Pencroft. "Our guns are only loaded with small shot, a nd

beasts which can roar as loud as that would care no more for it than for

grains of salt!" And the sailor, seizing Herbert by the arm, dragged him

behind a rock, just as a magnificent animal showed itself at the ent rance

of the cavern.

It was a jaguar of a size at least equal to its Asiatic congeners, t

is to say, it measured five feet from the extremity of its head to the

beginning of its tail. The yellow color of its hair was relieved by streaks

and regular oblong spots of black, which contrasted with the white of its

chest. Herbert recognized it as the ferocious rival of the tiger, as

formidable as the puma, which is the rival of the largest wolf!

The jaguar advanced and gazed around him with blazing eyes, his hair bristling as if this was not the first time he had scented men.

At this moment the reporter appeared round a rock, and Herbert, thin king

that he had not seen the jaguar, was about to rush towards him, when Gideon

Spilett signed to him to remain where he was. This was not his first tiger,

and advancing to within ten feet of the animal he remained motionles s, his

gun to his shoulder, without moving a muscle. The jaguar collected itself

for a spring, but at that moment a shot struck it in the eyes, and i

t fell dead.

Herbert and Pencroft rushed towards the jaguar. Neb and Harding also ran up, and they remained for some instants contemplating the animal as it lay stretched on the ground, thinking that its magnificent skin would be

great ornament to the hall at Granite House.

"Oh, Mr. Spilett, how I admire and envy you!" cried Herbert, in a fit of very natural enthusiasm.

"I! with such coolness!--"

"Imagine to yourself, Herbert, that the jaguar is only a hare, and y ou would fire as quietly as possible."

"That is," rejoined Pencroft, "that it is not more dangerous than a hare!"

"And now," said Gideon Spilett, "since the jaguar has left its abode , ${\rm I}$ do not see, my friends, why we should not take possession of it for the night."

"But others may come," said Pencroft.

"It will be enough to light a fire at the entrance of the cavern," s aid the reporter, "and no wild beasts will dare to cross the threshold."

"Into the jaguar's house, then!" replied the sailor, dragging after him the body of the animal.

While Neb skinned the jaguar, his companions collected an abundant supply of dry wood from the forest, which they heaped up at the cave.

Cyrus Harding, seeing the clump of bamboos, cut a quantity, which he mingled with the other fuel.

This done, they entered the grotto, of which the floor was strewn with bones, the guns were carefully loaded, in case of a sudden attack, they had

supper, and then just before they lay down to rest, the heap of wood piled

at the entrance was set fire to. Immediately, a regular explosion, or

rather a series of reports, broke the silence! The noise was caused by the

bamboos, which, as the flames reached them, exploded like fireworks. The

noise was enough to terrify even the boldest of wild beasts.

It was not the engineer who had invented this way of causing loud explosions, for, according to Marco Polo, the Tartars have employed it for

many centuries to drive away from their encampments the formidable wild

beasts of Central Asia.

Chapter 5

Cyrus Harding and his companions slept like innocent marmots in the cave

which the jaguar had so politely left at their disposal.

At sunrise all were on the shore at the extremity of the promontory, and

their gaze was directed towards the horizon, of which two-thirds of the

circumference were visible. For the last time the engineer could asc ertain

that not a sail nor the wreck of a ship was on the sea, and even with the

telescope nothing suspicious could be discovered.

There was nothing either on the shore, at least, in the straight line of

three miles which formed the south side of the promontory, for beyon d that,

rising ground had the rest of the coast, and even from the extremity of the

Serpentine Peninsula Claw Cape could not be seen.

The southern coast of the island still remained to be explored. Now should they undertake it immediately, and devote this day to it?

This was not included in their first plan. In fact, when the boat was

abandoned at the sources of the Mercy, it had been agreed that after having

surveyed the west coast, they should go back to it, and return to Gr anite

House by the Mercy. Harding then thought that the western coast would have

offered refuge, either to a ship in distress, or to a vessel in her regular

course; but now, as he saw that this coast presented no good anchora

ge, he wished to seek on the south what they had not been able to find on the west.

Gideon Spilett proposed to continue the exploration, that the questi on of the supposed wreck might be completely settled, and he asked at what distance Claw Cape might be from the extremity of the peninsula.

"About thirty miles," replied the engineer, "if we take into consideration the curvings of the coast."

"Thirty miles!" returned Spilett. "That would be a long day's march.

Nevertheless, I think that we should return to Granite House by the south coast."

"But," observed Herbert, "from Claw Cape to Granite House there must be at least another ten miles.

"Make it forty miles in all," replied the engineer, "and do not hesi tate to do it. At least we should survey the unknown shore, and then we shall

"Very good," said Pencroft. "But the boat?"

not have to begin the exploration again."

"The boat has remained by itself for one day at the sources of the Mercy," replied Gideon Spilett; "it may just as well stay there two days!

As yet, we have had no reason to think that the island is infested by thieves!"

"Yet," said the sailor, "when I remember the history of the turtle, I am far from confident of that."

"The turtle! the turtle!" replied the reporter. "Don't you know that the sea turned it over?"

"Who knows?" murmured the engineer.

"But, -- " said Neb.

Neb had evidently something to say, for he opened his mouth to speak and yet said nothing.

"What do you want to say, Neb?" asked the engineer.

"If we return by the shore to Claw Cape," replied Neb, "after having doubled the Cape, we shall be stopped--"

"By the Mercy! of course," replied Herbert, "and we shall have neith er

bridge nor boat by which to cross."

"But, captain," added Pencroft, "with a few floating trunks we shall have no difficulty in crossing the river."

"Never mind," said Spilett, "it will be useful to construct a bridge if we

wish to have an easy access to the Far West!"

"A bridge!" cried Pencroft. "Well, is not the captain the best engin eer

in his profession? He will make us a bridge when we want one. As to transporting you this evening to the other side of the Mercy, and that

without wetting one thread of your clothes, I will take care of that . We

have provisions for another day, and besides we can get plenty of game.

Forward!"

The reporter's proposal, so strongly seconded by the sailor, receive d

general approbation, for each wished to have their doubts set at res t , and

by returning by Claw Cape the exploration would he ended. But there was not

an hour to lose, for forty miles was a long march, and they could no thope

to reach Granite House before night.

At six o'clock in the morning the little band set out. As a precauti

the guns were loaded with ball, and Top, who led the van, received o rders

to beat about the edge of the forest.

From the extremity of the promontory which formed the tail of the peninsula the coast was rounded for a distance of five miles, which was

rapidly passed over, without even the most minute investigations bringing

to light the least trace of any old or recent landings; no debris, n o mark

of an encampment, no cinders of a fire, nor even a footprint!

From the point of the peninsula on which the settlers now were their gaze

could extend along the southwest. Twenty-five miles off the coast terminated in the Claw Cape, which loomed dimly through the morning mists,

and which, by the phenomenon of the mirage, appeared as if suspended between land and water.

Between the place occupied by the colonists and the other side of the

immense bay, the shore was composed, first, of a tract of low land, bordered in the background by trees; then the shore became more irregular,

projecting sharp points into the sea, and finally ended in the black rocks

which, accumulated in picturesque disorder, formed Claw Cape.

Such was the development of this part of the island, which the settlers

took in at a glance, while stopping for an instant.

"If a vessel ran in here," said Pencroft, "she would certainly be lo st.

Sandbanks and reefs everywhere! Bad quarters!"

"But at least something would be left of the ship," observed the reporter.

"There might be pieces of wood on the rocks, but nothing on the sand s," replied the sailor.

"Why?"

"Because the sands are still more dangerous than the rocks, for they swallow up everything that is thrown on them. In a few days the hull of a ship of several hundred tons would disappear entirely in there!"

"So, Pencroft," asked the engineer, "if a ship has been wrecked on these banks, is it not astonishing that there is now no trace of her remaining?"

"No, captain, with the aid of time and tempest. However, it would be surprising, even in this case, that some of the masts or spars shoul d not have been thrown on the beach, out of reach of the waves."

"Let us go on with our search, then," returned Cyrus Harding.

At one o'clock the colonists arrived at the other side of Washington Bay, they having now gone a distance of twenty miles.

They then halted for breakfast.

Here began the irregular coast, covered with lines of rocks and sandbanks. The long sea-swell could be seen breaking over the rocks in the

bay, forming a foamy fringe. From this point to Claw Cape the beach was

very narrow between the edge of the forest and the reefs.

Walking was now more difficult, on account of the numerous rocks which

encumbered the beach. The granite cliff also gradually increased in height,

and only the green tops of the trees which crowned it could be seen.

After half an hour's rest, the settlers resumed their journey, and n ot a

spot among the rocks was left unexamined. Pencroft and Neb even rush ed into

the surf whenever any object attracted their attention. But they found

nothing, some curious formations of the rocks having deceived them. They

ascertained, however, that eatable shellfish abounded there, but the se

could not be of any great advantage to them until some easy means of

communication had been established between the two banks of the Merc y, and

until the means of transport had been perfected.

Nothing therefore which threw any light on the supposed wreck could be

found on this shore, yet an object of any importance, such as the hull of a

ship, would have been seen directly, or any of her masts and spans would

have been washed on shore, just as the chest had been, which was found

twenty miles from here. But there was nothing.

Towards three o'clock Harding and his companions arrived at a snug little

creek. It formed quite a natural harbor, invisible from the sea, and was

entered by a narrow channel.

At the back of this creek some violent convulsion had torn up the rocky

border, and a cutting, by a gentle slope, gave access to an upper pl ateau,

which might be situated at least ten miles from Claw Cape, and consequently

four miles in a straight line from Prospect Heights. Gideon Spilett proposed to his companions that they should make a halt here. They a

greed

readily, for their walk had sharpened their appetites; and although it was

not their usual dinner-hour, no one refused to strengthen himself with a

piece of venison. This luncheon would sustain them until their supper.

which they intended to take at Granite House. In a few minutes the settlers, seated under a clump of fine sea-pines, were devouring the

provisions which Neb produced from his bag.

This spot was raised from fifty to sixty feet above the level of the sea.

The view was very extensive, but beyond the cape it ended in Union B ay.

Neither the islet nor Prospect Heights was visible, and could not be from

thence, for the rising ground and the curtain of trees closed the no $\ensuremath{\text{r}}$ thern

horizon.

It is useless to add that notwithstanding the wide extent of sea which

the explorers could survey, and though the engineer swept the horizo $\ensuremath{\mathbf{n}}$ with

his glass, no vessel could be found.

The shore was of course examined with the same care from the edge of the

water to the cliff, and nothing could be discovered even with the ai ${\tt d}$ of

the instrument.

"Well," said Gideon Spilett, "it seems we must make up our minds to console ourselves with thinking that no one will come to dispute with us

the possession of Lincoln Island!"

"But the bullet," cried Herbert. "That was not imaginary, I suppose!

"Hang it, no!" exclaimed Pencroft, thinking of his absent tooth.

"Then what conclusion may be drawn?" asked the reporter.

"This," replied the engineer, "that three months or more ago, a vess el,

either voluntarily or not, came here."

"What! then you admit, Cyrus, that she was swallowed up without leaving

any trace?" cried the reporter.

"No, my dear Spilett; but you see that if it is certain that a human

being set foot on the island, it appears no less certain that he has now

left it."

"Then, if I understand you right, captain," said Herbert, "the vesse 1 has left again?"

"Evidently."

"And we have lost an opportunity to get back to our country?" said N eb.

"I fear so."

"Very well, since the opportunity is lost, let us go on; it can't be helped, " said Pencroft, who felt home-sickness for Granite House.

But just as they were rising, Top was heard loudly barking; and the issued from the wood, holding in his mouth a rag soiled with mud.

Neb seized it. It was a piece of strong cloth!

Top still barked, and by his going and coming, seemed to invite his master to follow him into the forest.

"Now there's something to explain the bullet!" exclaimed Pencroft.

"A castaway!" replied Herbert.

"Wounded, perhaps!" said Neb.

"Or dead!" added the reporter.

All ran after the dog, among the tall pines on the border of the for

Harding and his companions made ready their firearms, in case of an emergency.

They advanced some way into the wood, but to their great disappointm

they as yet saw no signs of any human being having passed that way. Shrubs

and creepers were uninjured, and they had even to cut them away with

axe, as they had done in the deepest recesses of the forest. It was difficult to fancy that any human creature had ever passed there, bu

Top went backward and forward, not like a dog who searches at random

like a dog being endowed with a mind, who is following up an idea.

In about seven or eight minutes Top stopped in a glade surrounded wi th

tall trees. The settlers gazed around them, but saw nothing, neither under

the bushes nor among the trees.

"What is the matter, Top?" said Cyrus Harding.

Top barked louder, bounding about at the foot of a gigantic pine. Al l at

once Pencroft shouted, -- "Ho, splendid! capital!"

"What is it?" asked Spilett.

"We have been looking for a wreck at sea or on land!"

"Well?"

"Well; and here we've found one in the air!"

And the sailor pointed to a great white rag, caught in the top of the pine, a fallen scrap of which the dog had brought to them.

"But that is not a wreck!" cried Gideon Spilett.

"I beg your pardon!" returned Pencroft.

"Why? is it--?"

"It is all that remains of our airy boat, of our balloon, which has been

caught up aloft there, at the top of that tree!"

Pencroft was not mistaken, and he gave vent to his feelings in a tremendous hurrah, adding,--

"There is good cloth! There is what will furnish us with linen for y ears.

There is what will make us handkerchiefs and shirts! Ha, ha, Mr. Spilett,

what do you say to an island where shirts grow on the trees?"

It was certainly a lucky circumstance for the settlers in Lincoln Is land

that the balloon, after having made its last bound into the air, had fallen

on the island and thus given them the opportunity of finding it again,

whether they kept the case under its present form, or whether they wished

to attempt another escape by it, or whether they usefully employed the

several hundred yards of cotton, which was of fine quality. Pencroft's joy

was therefore shared by all.

But it was necessary to bring down the remains of the balloon from t

he

tree, to place it in security, and this was no slight task. Neb, Her bert,

and the sailor, climbing to the summit of the tree, used all their skill to

disengage the now reduced balloon.

The operation lasted two hours, and then not only the case, with its

valve, its springs, its brasswork, lay on the ground, but the net, t hat is

to say a considerable quantity of ropes and cordage, and the circle and the

anchor. The case, except for the fracture, was in good condition, on ly the

lower portion being torn.

It was a fortune which had fallen from the sky.

"All the same, captain," said the sailor, "if we ever decide to leav e the

island, it won't be in a balloon, will it? These airboats won't go w here we

want them to go, and we have had some experience in that way! Look h ere, we

will build a craft of some twenty tons, and then we can make a main-sail, a

foresail, and a jib out of that cloth. As to the rest of it, that will help

to dress us."

"We shall see, Pencroft," replied Cyrus Harding; "we shall see."

"In the meantime, we must put it in a safe place," said Neb.

They certainly could not think of carrying this load of cloth, ropes, and

cordage, to Granite House, for the weight of it was very considerable, and

while waiting for a suitable vehicle in which to convey it, it was of

importance that this treasure should not be left longer exposed to the

mercies of the first storm. The settlers, uniting their efforts, man aged to

drag it as far as the shore, where they discovered a large rocky cavity,

which owing to its position could not be visited either by the wind or rain.

"We needed a locker, and now we have one," said Pencroft; "but as we cannot lock it up, it will be prudent to hide the opening. I don't mean

from two-legged thieves, but from those with four paws!"

At six o'clock, all was stowed away, and after having given the cree k the

very suitable name of "Port Balloon," the settlers pursued their way along

Claw Cape. Pencroft and the engineer talked of the different project s which

it was agreed to put into execution with the briefest possible delay . It

was necessary first of all to throw a bridge over the Mercy, so as to

establish an easy communication with the south of the island; then the cart

must be taken to bring back the balloon, for the canoe alone could n ot

carry it, then they would build a decked boat, and Pencroft would rig it as

a cutter, and they would be able to undertake voyages of circumnavig ation

round the island, etc.

In the meanwhile night came on, and it was already dark when the set tlers

reached Flotsam Point, where they had found the precious chest.

The distance between Flotsam Point and Granite House was another four

miles, and it was midnight when, after having followed the shore to the

mouth of the Mercy, the settlers arrived at the first angle formed by the Mercy.

There the river was eighty feet in breadth, which was awkward to cross,

but as Pencroft had taken upon himself to conquer this difficulty, h e was

compelled to do it. The settlers certainly had reason to be pretty t ired.

The journey had been long, and the task of getting down the balloon had not

rested either their arms or legs. They were anxious to reach Granite House

to eat and sleep, and if the bridge had been constructed, in a quart er of

an hour they would have been at home.

The night was very dark. Pencroft prepared to keep his promise by constructing a sort of raft, on which to make the passage of the Mer cy. He

and Neb, armed with axes, chose two trees near the water, and began to

attack them at the base.

Cyrus Harding and Spilett, seated on the bank, waited till their companions were ready for their help, while Herbert roamed about, th

ough

without going to any distance. All at once, the lad, who had strolle d by

the river, came running back, and, pointing up the Mercy, exclaimed, --

"What is floating there?"

Pencroft stopped working, and seeing an indistinct object moving through

the gloom, --

"A canoe!" cried he.

All approached, and saw to their extreme surprise, a boat floating down

the current.

"Boat ahoy!" shouted the sailor, without thinking that perhaps it would

be best to keep silence.

No reply. The boat still drifted onward, and it was not more than tw elve

feet off, when the sailor exclaimed, --

"But it is our own boat! she has broken her moorings, and floated do wn

the current. I must say she has arrived very opportunely."

"Our boat?" murmured the engineer.

Pencroft was right. It was indeed the canoe, of which the rope had undoubtedly broken, and which had come alone from the sources of the Mercy.

It was very important to seize it before the rapid current should have

swept it away out of the mouth of the river, but Neb and Pencroft cleverly

managed this by means of a long pole.

The canoe touched the shore. The engineer leaped in first, and found , on

examining the rope, that it had been really worn through by rubbing against

the rocks.

"Well," said the reporter to him, in a low voice, "this is a strange thing."

"Strange indeed!" returned Cyrus Harding.

Strange or not, it was very fortunate. Herbert, the reporter, Neb, a nd

Pencroft, embarked in turn. There was no doubt about the rope having

been

worn through, but the astonishing part of the affair was, that the boat

should arrive just at the moment when the settlers were there to sei ze it

on its way, for a quarter of an hour earlier or later it would have been

lost in the sea.

If they had been living in the time of genii, this incident would have

given them the right to think that the island was haunted by some supernatural being, who used his power in the service of the castaways!

A few strokes of the oar brought the settlers to the mouth of the Mercy.

The canoe was hauled up on the beach near the Chimneys, and all proceeded

towards the ladder of Granite House.

But at that moment, Top barked angrily, and Neb, who was looking for the

first steps, uttered a cry.

There was no longer a ladder!

Chapter 6

Cyrus Harding stood still, without saying a word. His companions sea rched

in the darkness on the wall, in case the wind should have moved the ladder,

and on the ground, thinking that it might have fallen down.... But the

ladder had quite disappeared. As to ascertaining if a squall had blo wn it

on the landing-place, half way up, that was impossible in the dark.

"If it is a joke," cried Pencroft, "it is a very stupid one! To come home

and find no staircase to go up to your room by--that's nothing for weary

men to laugh at."

Neb could do nothing but cry out "Oh! oh!"

"I begin to think that very curious things happen in Lincoln Island! "said Pencroft.

"Curious?" replied Gideon Spilett, "not at all, Pencroft, nothing can be

more natural. Some one has come during our absence, taken possession of our

dwelling and drawn up the ladder."

"Some one," cried the sailor. "But who?"

"Who but the hunter who fired the bullet?" replied the reporter.

"Well, if there is any one up there," replied Pencroft, who began to lose

patience, "I will give them a hail, and they must answer."

And in a stentorian voice the sailor gave a prolonged "Halloo!" which was

echoed again and again from the cliff and rocks.

The settlers listened and they thought they heard a sort of chucklin

laugh, of which they could not guess the origin. But no voice replie d to

Pencroft, who in vain repeated his vigorous shouts.

There was something indeed in this to astonish the most apathetic of men,

and the settlers were not men of that description. In their situation every

incident had its importance, and, certainly, during the seven months which

they had spent on the island, they had not before met with anything of so

surprising a character.

Be that as it may, forgetting their fatigue in the singularity of the

event, they remained below Granite House, not knowing what to think, not

knowing what to do, questioning each other without any hope of a satisfactory reply, every one starting some supposition each more unlikely

than the last. Neb bewailed himself, much disappointed at not being able to

get into his kitchen, for the provisions which they had had on their

expedition were exhausted, and they had no means of renewing them.

"My friends," at last said Cyrus Harding, "there is only one thing to be

done at present; wait for day, and then act according to circumstances. But

let us go to the Chimneys. There we shall be under shelter, and if we

cannot eat, we can at least sleep."

"But who is it that has played us this cool trick?" again asked Pencroft,

unable to make up his mind to retire from the spot.

Whoever it was, the only thing practicable was to do as the engineer

proposed, to go to the Chimneys and there wait for day. In the meanw hile

Top was ordered to mount guard below the windows of Granite House, and when

Top received an order he obeyed it without any questioning. The brave dog

therefore remained at the foot of the cliff while his master with his

companions sought a refuge among the rocks.

To say that the settlers, notwithstanding their fatigue, slept well on

the sandy floor of the Chimneys would not be true. It was not only t hat

they were extremely anxious to find out the cause of what had happen ed,

whether it was the result of an accident which would be discovered a t the

return of day, or whether on the contrary it was the work of a human being;

but they also had very uncomfortable beds. That could not be helped,

however, for in some way or other at that moment their dwelling was occupied, and they could not possibly enter it.

Now Granite House was more than their dwelling, it was their warehou se.

There were all the stores belonging to the colony, weapons, instrume nts,

tools, ammunition, provisions, etc. To think that all that might be pillaged and that the settlers would have all their work to do over again,

fresh weapons and tools to make, was a serious matter. Their uneasin ess led

one or other of them also to go out every few minutes to see if Top was

keeping good watch. Cyrus Harding alone waited with his habitual pat ience,

although his strong mind was exasperated at being confronted with such an

inexplicable fact, and he was provoked at himself for allowing a fee ling to

which he could not give a name, to gain an influence over him. Gideo n

Spilett shared his feelings in this respect, and the two conversed together

in whispers of the inexplicable circumstance which baffled even their

intelligence and experience.

"It is a joke," said Pencroft; "it is a trick some one has played us .
Well, I don't like such jokes, and the joker had better look out for himself, if he falls into my hands, I can tell him."

As soon as the first gleam of light appeared in the east, the coloni sts,

suitably armed, repaired to the beach under Granite House. The risin g sun

now shone on the cliff and they could see the windows, the shutters of $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

which were closed, through the curtains of foliage.

All here was in order; but a cry escaped the colonists when they saw that

the door, which they had closed on their departure, was now wide ope n.

Some one had entered Granite House--there could be no more doubt about that.

The upper ladder, which generally hung from the door to the landing, was

in its place, but the lower ladder was drawn up and raised to the threshold. It was evident that the intruders had wished to guard the mselves against a surprise.

agarribe a barpribe.

Pencroft hailed again.

No reply.

"The beggars," exclaimed the sailor. "There they are sleeping quietly as if they were in their own house. Hallo there, you pirates, brigands, robbers, sons of John Bull!"

When Pencroft, being a Yankee, treated any one to the epithet of "so n of John Bull," he considered he had reached the last limits of insult.

The sun had now completely risen, and the whole facade of Granite House

became illuminated by its rays; but in the interior as well as on the

exterior all was quiet and calm.

The settlers asked if Granite House was inhabited or not, and yet the

position of the ladder was sufficient to show that it was; it was al so

certain that the inhabitants, whoever they might be, had not been ab le to

escape. But how were they to be got at?

Herbert then thought of fastening a cord to an arrow, and shooting the

arrow so that it should pass between the first rounds of the ladder

which

hung from the threshold. By means of the cord they would then be abl e to

draw down the ladder to the ground, and so re-establish the communic ation

between the beach and Granite House. There was evidently nothing els e to be

done, and, with a little skill, this method might succeed. Very fort unately

bows and arrows had been left at the Chimneys, where they also found a

quantity of light hibiscus cord. Pencroft fastened this to a well-fe athered

arrow. Then Herbert fixing it to his bow, took a careful aim for the lower

part of the ladder.

Cyrus Harding, Gideon Spilett, Pencroft, and Neb drew back, so as to see

if anything appeared at the windows. The reporter lifted his gun to his

shoulder and covered the door.

The bow was bent, the arrow flew, taking the cord with it, and passe d between the two last rounds.

The operation had succeeded.

Herbert immediately seized the end of the cord, but, at that moment when

he gave it a pull to bring down the ladder, an arm, thrust suddenly out

between the wall and the door, grasped it and dragged it inside Gran ite

House.

"The rascals!" shouted the sailor. "If a ball can do anything for yo ${\tt u}$,

you shall not have long to wait for it.

"But who was it?" asked Neb.

"Who was it? Didn't you see?"

"No."

"It was a monkey, a sapajou, an orangoutang, a baboon, a gorilla, a sagoin. Our dwelling has been invaded by monkeys, who climbed up the ladder

during our absence."

And, at this moment, as if to bear witness to the truth of the sailo ${\tt r's}$

words, two or three quadrumana showed themselves at the windows, fro m which

they had pushed back the shutters, and saluted the real proprietors of the place with a thousand hideous grimaces.

"I knew that it was only a joke," cried Pencroft; "but one of the jokers shall pay the penalty for the rest."

So saying, the sailor, raising his piece, took a rapid aim at one of the monkeys and fired. All disappeared, except one who fell mortally wou nded on the beach. This monkey, which was of a large size, evidently belonge d to the first order of the quadrumana. Whether this was a chimpanzee, an orangoutang, or a gorilla, he took rank among the anthropoid apes, w ho are so called from their resemblance to the human race. However, Herbert

"What a magnificent beast!" cried Neb.

declared it to be an orangoutang.

"Magnificent, if you like," replied Pencroft; "but still I do not se e how we are to get into our house."

"Herbert is a good marksman," said the reporter, "and his bow is her e. He can try again."

"Why, these apes are so cunning," returned Pencroft; "they won't sho w themselves again at the windows and so we can't kill them; and when I think of the mischief they may do in the rooms and storehouse--"

"Have patience," replied Harding; "these creatures cannot keep us long at bay."

"I shall not be sure of that till I see them down here," replied the sailor. "And now, captain, do you know how many dozens of these fell ows are up there?"

It was difficult to reply to Pencroft, and as for the young boy making another attempt, that was not easy; for the lower part of the ladder had been drawn again into the door, and when another pull was given, the line broke and the ladder remained firm. The case was really perplexing.

Pencroft stormed. There was a comic side to the situation, but he di

d not

think it funny at all. It was certain that the settlers would end by

reinstating themselves in their domicile and driving out the intrude rs, but

when and how? this is what they were not able to say.

Two hours passed, during which the apes took care not to show themse lves.

but they were still there, and three or four times a nose or a paw w as

poked out at the door or windows, and was immediately saluted by a g un-

shot.

"Let us hide ourselves," at last said the engineer. "Perhaps the ape

will think we have gone quite away and will show themselves again. Let

Spilett and Herbert conceal themselves behind those rocks and fire o ${\tt n}$ all

that may appear."

The engineer's orders were obeyed, and while the reporter and the lad.

the best marksmen in the colony, posted themselves in a good positio \mathbf{n} , but

out of the monkeys' sight, Neb, Pencroft, and Cyrus climbed the plat eau and

entered the forest in order to kill some game, for it was now time f or

breakfast and they had no provisions remaining.

In half an hour the hunters returned with a few rock pigeons, which they

roasted as well as they could. Not an ape had appeared. Gideon Spile tt and

Herbert went to take their share of the breakfast, leaving Top to wa tch

under the windows. They then, having eaten, returned to their post.

Two hours later, their situation was in no degree improved. The quadrumana gave no sign of existence, and it might have been suppose d that

they had disappeared; but what seemed more probable was that, terrified by

the death of one of their companions, and frightened by the noise of the

firearms, they had retreated to the back part of the house or probably even

into the store-room. And when they thought of the valuables which th

storeroom contained, the patience so much recommended by the enginee r, fast

changed into great irritation, and there certainly was room for it.

"Decidedly it is too bad," said the reporter; "and the worst of it i

there is no way of putting an end to it."

"But we must drive these vagabonds out somehow," cried the sailor. " Wе

could soon get the better of them, even if there are twenty of the r ascals;

but for that, we must meet them hand to hand. Come now, is there no way of

getting at them?"

"Let us try to enter Granite House by the old opening at the lake," replied the engineer.

"Oh!" shouted the sailor, "and I never thought of that."

This was in reality the only way by which to penetrate into Granite House

so as to fight with and drive out the intruders. The opening was, it is

true, closed up with a wall of cemented stones, which it would be ne cessary

to sacrifice, but that could easily be rebuilt. Fortunately, Cyrus H arding

had not as yet effected his project of hiding this opening by raisin g the

waters of the lake, for the operation would then have taken some tim

It was already past twelve o'clock, when the colonists, well armed a

provided with picks and spades, left the Chimneys, passed beneath th

windows of Granite House, after telling Top to remain at his post, a

began to ascend the left bank of the Mercy, so as to reach Prospect Heights.

But they had not made fifty steps in this direction, when they heard the

dog barking furiously.

And all rushed down the bank again.

Arrived at the turning, they saw that the situation had changed.

In fact, the apes, seized with a sudden panic, from some unknown cau

were trying to escape. Two or three ran and clambered from one windo

another with the agility of acrobats. They were not even trying to r eplace

the ladder, by which it would have been easy to descend; perhaps in

terror they had forgotten this way of escape. The colonists, now bei

ng able

to take aim without difficulty, fired. Some, wounded or killed, fell back

into the rooms, uttering piercing cries. The rest, throwing themselv es out,

were dashed to pieces in their fall, and in a few minutes, so far as they

knew, there was not a living quadrumana in Granite House.

At this moment the ladder was seen to slip over the threshold, then unroll and fall to the ground.

"Hullo!" cried the sailor, "this is queer!"

"Very strange!" murmured the engineer, leaping first up the ladder.

"Take care, captain!" cried Pencroft, "perhaps there are still some of these rascals.

"We shall soon see," replied the engineer, without stopping however.

All his companions followed him, and in a minute they had arrived at the

threshold. They searched everywhere. There was no one in the rooms n or in

the storehouse, which had been respected by the band of quadrumana.

"Well now, and the ladder," cried the sailor; "who can the gentleman have

been who sent us that down?"

But at that moment a cry was heard, and a great orang, who had hidde $\ensuremath{\mathbf{n}}$

himself in the passage, rushed into the room, pursued by Neb.

"Ah, the robber!" cried Pencroft.

And hatchet in hand, he was about to cleave the head of the animal, when

Cyrus Harding seized his arm, saying, --

"Spare him, Pencroft."

"Pardon this rascal?"

"Yes! it was he who threw us the ladder!"

And the engineer said this in such a peculiar voice that it was difficult

to know whether he spoke seriously or not.

Nevertheless, they threw themselves on the orang, who defended himse lf

gallantly, but was soon overpowered and bound.

"There!" said Pencroft. "And what shall we make of him, now we've go t him?"

"A servant!" replied Herbert.

The lad was not joking in saying this, for he knew how this intelligent

race could be turned to account.

The settlers then approached the ape and gazed at it attentively. He

belonged to the family of anthropoid apes, of which the facial angle is not

much inferior to that of the Australians and Hottentots. It was an orangoutang, and as such, had neither the ferocity of the gorilla, n or the

stupidity of the baboon. It is to this family of the anthropoid apes

so many characteristics belong which prove them to be possessed of a n

almost human intelligence. Employed in houses, they can wait at table,

sweep rooms, brush clothes, clean boots, handle a knife, fork, and s poon

properly, and even drink wine . . . doing everything as well as the best

servant that ever walked upon two legs. Buffon possessed one of thes e apes,

who served him for a long time as a faithful and zealous servant.

The one which had been seized in the hall of Granite House was a gre at

fellow, six feet high, with an admirably poportioned frame, a broad chest,

head of a moderate size, the facial angle reaching sixty-five degree s,

round skull, projecting nose, skin covered with soft glossy hair, in short,

a fine specimen of the anthropoids. His eyes, rather smaller than hu man

eyes, sparkled with intelligence; his white teeth glittered under his

mustache, and he wore a little curly brown beard.

"A handsome fellow!" said Pencroft; "if we only knew his language, we could talk to him."

"But, master," said Neb, "are you serious? Are we going to take him as a servant?"

"Yes, Neb," replied the engineer, smiling. "But you must not be jeal ous."

"And I hope he will make an excellent servant," added Herbert. "He appears young, and will be easy to educate, and we shall not be obliged to

use force to subdue him, nor draw his teeth, as is sometimes done. He will

soon grow fond of his masters if they are kind to him."

"And they will be," replied Pencroft, who had forgotten all his ranc or against "the jokers."

Then, approaching the orang, --

"Well, old boy!" he asked, "how are you?"

The orang replied by a little grunt which did not show any anger.

"You wish to join the colony?" again asked the sailor. "You are goin g to enter the service of Captain Cyrus Harding?"

Another respondent grunt was uttered by the ape.

"And you will be satisfied with no other wages than your food?"
Third affirmative grunt.

"This conversation is slightly monotonous," observed Gideon Spilett.

"So much the better," replied Pencroft; "the best servants are those who talk the least. And then, no wages, do you hear, my boy? We will giv

e you

no wages at first, but we will double them afterwards if we are plea sed with you."

Thus the colony was increased by a new member. As to his name the sailor

begged that in memory of another ape which he had known, he might be called

Jupiter, and Jup for short.

And so, without more ceremony, Master Jup was installed in Granite H ouse.

Chapter 7

The settlers in Lincoln Island had now regained their dwelling, with out

having been obliged to reach it by the old opening, and were therefore

spared the trouble of mason's work. It was certainly lucky, that at

the

moment they were about to set out to do so, the apes had been seized with

that terror, no less sudden than inexplicable, which had driven them out of

Granite House. Had the animals discovered that they were about to be

attacked from another direction? This was the only explanation of their

sudden retreat.

During the day the bodies of the apes were carried into the wood, where

they were buried; then the settlers busied themselves in repairing the

disorder caused by the intruders, disorder but not damage, for although

they had turned everything in the rooms topsy-turvy, yet they had broken

nothing. Neb relighted his stove, and the stores in the larder furni shed a

substantial repast, to which all did ample justice.

Jup was not forgotten, and he ate with relish some stonepine almonds and

rhizome roots, with which he was abundantly supplied. Pencroft had unfastened his arms, but judged it best to have his legs tied until they

were more sure of his submission.

Then, before retiring to rest, Harding and his companions seated round

their table, discussed those plans, the execution of which was most pressing. The most important and most urgent was the establishment of a

bridge over the Mercy, so as to form a communication with the southern part

of the island and Granite House; then the making of an enclosure for the

musmons or other woolly animals which they wished to capture.

These two projects would help to solve the difficulty as to their clothing, which was now serious. The bridge would render easy the transport

of the balloon case, which would furnish them with linen, and the inhabitants of the enclosure would yield wool which would supply the $\ensuremath{\text{m}}$ with

winter clothes.

As to the enclosure, it was Cyrus Harding's intention to establish it at

the sources of the Red Creek, where the ruminants would find fresh and

abundant pasture. The road between Prospect Heights and the sources of the

stream was already partly beaten, and with a better cart than the fi

rst,

the material could be easily conveyed to the spot, especially if the γ could

manage to capture some animals to draw it.

But though there might be no inconvenience in the enclosure being so far

from Granite House, it would not be the same with the poultry-yard, to

which Neb called the attention of the colonists. It was indeed neces sary

that the birds should be close within reach of the cook, and no plac e

appeared more favorable for the establishment of the said poultry-yard than

that portion of the banks of the lake which was close to the old opening.

Water-birds would prosper there as well as others, and the couple of

tinamous taken in their last excursion would be the first to be domesticated.

The next day, the 3rd of November, the new works were begun by the construction of the bridge, and all hands were required for this important

task. Saws, hatchets, and hammers were shouldered by the settlers, w ho, now

transformed into carpenters, descended to the shore.

There Pencroft observed, --

"Suppose, that during our absence, Master Jup takes it into his head to

draw up the ladder which he so politely returned to us yesterday?"

"Let us tie its lower end down firmly," replied Cyrus Harding.

This was done by means of two stakes securely fixed in the sand. The

settlers, ascending the left bank of the Mercy, soon arrived at the angle

formed by the river.

There they halted, in order to ascertain if the bridge could be thrown

across. The place appeared suitable.

In fact, from this spot, to Port Balloon, discovered the day before on

the southern coast, there was only a distance of three miles and a h alf,

and from the bridge to the Port, it would be easy to make a good car t-road

which would render the communication between Granite House and the south of

the island extremely easy.

Cyrus Harding now imparted to his companions a scheme for completely

isolating Prospect Heights so as to shelter it from the attacks both of

quadrupeds and quadrumana. In this way, Granite House, the Chimneys, the

poultry-yard, and all the upper part of the plateau which was to be used

for cultivation, would be protected against the depredations of anim als.

Nothing could be easier than to execute this project, and this is ho $\ensuremath{\mathbf{w}}$ the

engineer intended to set to work.

The plateau was already defended on three sides by water-courses, either

artificial or natural. On the northwest, by the shores of Lake Grant , from

the entrance of the passage to the breach made in the banks of the ${\bf l}$ ake for

the escape of the water.

On the north, from this breach to the sea, by the new water-course w hich

had hollowed out a bed for itself across the plateau and shore, above and

below the fall, and it would be enough to dig the bed of this creek a

little deeper to make it impracticable for animals, on all the eastern

border by the sea itself, from the mouth of the aforesaid creek to the

mouth of the Mercy.

Lastly, on the south, from the mouth to the turn of the Mercy where the $\,$

bridge was to be established.

The western border of the plateau now remained between the turn of the

river and the southern angle of the lake, a distance of about a mile , which

was open to all comers. But nothing could be easier than to dig a broad

deep ditch, which could be filled from the lake, and the overflow of which

would throw itself by a rapid fall into the bed of the Mercy. The level of

the lake would, no doubt, be somewhat lowered by this fresh discharg e of

its waters, but Cyrus Harding had ascertained that the volume of water in

the Red Creek was considerable enough to allow of the execution of this

project.

"So then," added the engineer, "Prospect Heights will become a regular

island, being surrounded with water on all sides, and only communicating

with the rest of our domain by the bridge which we are about to thro $\ensuremath{\mathbf{w}}$

across the Mercy, the two little bridges already established above a nd

below the fall; and, lastly, two other little bridges which must be constructed, one over the canal which I propose to dig, the other ac ross to

the left bank of the Mercy. Now, if these bridges can be raised at will,

Prospect Heights will be guarded from any surprise."

The bridge was the most urgent work. Trees were selected, cut down, stripped of their branches, and cut into beams, joists, and planks. The end

of the bridge which rested on the right bank of the Mercy was to be firm,

but the other end on the left bank was to be movable, so that it mig ht be

raised by means of a counterpoise, as some canal bridges are managed .

This was certainly a considerable work, and though it was skillfully

conducted, it took some time, for the Mercy at this place was eighty feet

wide. It was therefore necessary to fix piles in the bed of the rive r so as

to sustain the floor of the bridge and establish a pile-driver to act on

the tops of these piles, which would thus form two arches and allow the

bridge to support heavy loads.

Happily there was no want of tools with which to shape the wood, nor of

iron-work to make it firm, nor of the ingenuity of a man who had a marvelous knowledge of the work, nor lastly, the zeal of his companions,

who in seven months had necessarily acquired great skill in the use of

their tools; and it must be said that not the least skilful was Gide on

Spilett, who in dexterity almost equaled the sailor himself. "Who wo uld

ever have expected so much from a newspaper man!" thought Pencroft.

The construction of the Mercy bridge lasted three weeks of regular h ard

work. They even breakfasted on the scene of their labors, and the we ather

being magnificent, they only returned to Granite House to sleep.

During this period it may be stated that Master Jup grew more accust omed

to his new masters, whose movements he always watched with very inquisitive

eyes. However, as a precautionary measure, Pencroft did not as yet a llow

him complete liberty, rightly wishing to wait until the limits of the

plateau should be settled by the projected works. Top and Jup were good

friends and played willingly together, but Jup did everything solemn ly.

On the 20th of November the bridge was finished. The movable part, balanced by the counterpoise, swung easily, and only a slight effort was

needed to rise it; between its hinge and the last cross-bar on which it

rested when closed, there existed a space of twenty feet, which was sufficiently wide to prevent any animals from crossing.

The settlers now began to talk of fetching the balloon-case, which they

were anxious to place in perfect security; but to bring it, it would be

necessary to take a cart to Port Balloon, and consequently, necessary to

beat a road through the dense forests of the Far West. This would take some

time. Also, Neb and Pencroft having gone to examine into the state of

things at Port Balloon, and reported that the stock of cloth would suffer

no damage in the grotto where it was stored, it was decided that the work

at Prospect Heights should not be discontinued.

"That," observed Pencroft, "will enable us to establish our poultry-yard

under better conditions, since we need have no fear of visits from foxes

nor the attacks of other beasts."

"Then," added Neb, "we can clear the plateau, and transplant wild plants to it."

"And prepare our second corn-field!" cried the sailor with a triumph ant air.

In fact, the first corn-field sown with a single grain had prospered admirably, thanks to Pencroft's care. It had produced the ten ears f

oretold

by the engineer, and each ear containing eighty grains, the colony found

itself in possession of eight hundred grains, in six months, which promised

a double harvest each year.

These eight hundred grains, except fifty, which were prudently reserved,

were to be sown in a new field, but with no less care than was besto wed on

the single grain.

The field was prepared, then surrounded with a strong palisade, high and

pointed, which quadrupeds would have found difficulty in leaping. As

birds, some scarecrows, due to Pencroft's ingenious brain, were enough to

frighten them. The seven hundred and fifty grains deposited in very regular

furrows were then left for nature to do the rest.

On the 21st of November, Cyrus Harding began to plan the canal which was

to close the plateau on the west, from the south angle of Lake Grant to the

angle of the Mercy. There was there two or three feet of vegetable e arth,

and below that granite. It was therefore necessary to manufacture so me more

nitro-glycerine, and the nitro-glycerine did its accustomed work. In less

than a fortnight a ditch, twelve feet wide and six deep, was dug out in the

hard ground of the plateau. A new trench was made by the same means in the

rocky border of the lake, forming a small stream, to which they gave the

name of Creek Glycerine, and which was thus an affluent of the Mercy . As

the engineer had predicted, the level of the lake was lowered, though very

slightly. To complete the enclosure the bed of the stream on the bea ch was

considerably enlarged, and the sand supported by means of stakes.

By the end of the first fortnight of December these works were finis hed,

and Prospect Heights--that is to say, a sort of irregular pentagon, having

a perimeter of nearly four miles, surrounded by a liquid belt--was completely protected from depredators of every description.

During the month of December, the heat was very great. In spite of it,

however, the settlers continued their work, and as they were anxious to

possess a poultry-yard they forthwith commenced it.

It is useless to say that since the enclosing of the plateau had been

completed, Master Jup had been set at liberty. He did not leave his masters, and evinced no wish to escape. He was a gentle animal, thou gh very

powerful and wonderfully active. He was already taught to make himse lf

useful by drawing loads of wood and carting away the stones which we re

extracted from the bed of Creek Glycerine.

The poultry-yard occupied an area of two hundred square yards, on the

southeastern bank of the lake. It was surrounded by a palisade, and in it

were constructed various shelters for the birds which were to popula te it.

These were simply built of branches and divided into compartments, $\ensuremath{\mathsf{m}}$ ade

ready for the expected guests.

The first were the two tinamous, which were not long in having a num ber

of young ones; they had for companions half a dozen ducks, accustome d to

the borders of the lake. Some belonged to the Chinese species, of which the

wings open like a fan, and which by the brilliancy of their plumage rival

the golden pheasants. A few days afterwards, Herbert snared a couple of

gallinaceae, with spreading tails composed of long feathers, magnificent

alectors, which soon became tame. As to pelicans, kingfishers, water -hens,

they came of themselves to the shores of the poultry-yard, and this little

community, after some disputes, cooing, screaming, clucking, ended by

settling down peacefully, and increased in encouraging proportion for the

future use of the colony.

Cyrus Harding, wishing to complete his performance, established a pigeon-

house in a corner of the poultry-yard. There he lodged a dozen of those

pigeons which frequented the rocks of the plateau. These birds soon became

accustomed to returning every evening to their new dwelling, and showed

more disposition to domesticate themselves than their congeners, the

woodpigeons.

Lastly, the time had come for turning the balloon-case to use, by cutting

it up to make shirts and other articles; for as to keeping it in its

present form, and risking themselves in a balloon filled with gas, a bove a

sea of the limits of which they had no idea, it was not to be though t of.

It was necessary to bring the case to Granite House, and the colonis ts

employed themselves in rendering their heavy cart lighter and more manageable. But though they had a vehicle, the moving power was yet to be

found.

But did there not exist in the island some animal which might supply the place of the horse, ass, or ox? That was the question.

"Certainly," said Pencroft, "a beast of burden would be very useful to us

until the captain has made a steam cart, or even an engine, for some day we

shall have a railroad from Granite House to Port Balloon, with a branch

line to Mount Franklin!"

settlers, who were busy at the Chimneys, ran, fearing some vexatious incident.

What did they see? Two fine animals of a large size that had imprude ntly

ventured on the plateau, when the bridges were open. One would have said

they were horses, or at least donkeys, male and female, of a fine shape,

dove-colored, the legs and tail white, striped with black on the head and

neck. They advanced quietly without showing any uneasiness, and gaze d at

the men, in whom they could not as yet recognize their future master s.

"These are onagers!" cried Herbert, "animals something between the z ebra

and the quagga!"

"Why not donkeys?" asked Neb.

"Because they have not long ears, and their shape is more graceful!"

"Donkeys or horses," interrupted Pencroft, "they are 'moving powers, 'as

the captain would say, and as such must be captured!"

The sailor, without frightening the animals, crept through the grass to

the bridge over Creek Glycerine, lowered it, and the onagers were prisoners.

Now, should they seize them with violence and master them by force? No.

It was decided that for a few days they should be allowed to roam freely

about the plateau, where there was an abundance of grass, and the en gineer

immediately began to prepare a stable near the poultry-yard, in which the

onagers might find food, with a good litter, and shelter during the night.

This done, the movements of the two magnificent creatures were left entirely free, and the settlers avoided even approaching them so as to

terrify them. Several times, however, the onagers appeared to wish to leave

the plateau, too confined for animals accustomed to the plains and f orests.

They were then seen following the water-barrier which everywhere presented

itself before them, uttering short neighs, then galloping through the

grass, and becoming calmer, they would remain entire hours gazing at the

woods, from which they were cut off for ever!

In the meantime harness of vegetable fiber had been manufactured, and

some days after the capture of the onagers, not only the cart was ready,

but a straight road, or rather a cutting, had been made through the forests

of the Far West, from the angle of the Mercy to Port Balloon. The cart

might then be driven there, and towards the end of December they tried the

onagers for the first time.

Pencroft had already coaxed the animals to come and eat out of his h and,

and they allowed him to approach without making any difficulty, but once

harnessed they reared and could with difficulty be held in. However,

it was

not long before they submitted to this new service, for the onager, being

less refractory than the zebra, is frequently put in harness in the mountainous regions of Southern Africa, and it has even been acclima tized

in Europe, under zones of a relative coolness.

On this day all the colony, except Pencroft who walked at the animal s'

heads, mounted the cart, and set out on the road to Port Balloon.

Of course they were jolted over the somewhat rough road, but the vehicle

arrived without any accident, and was soon loaded with the case and rigging of the balloon.

At eight o'clock that evening the cart, after passing over the Mercy

bridge, descended the left bank of the river, and stopped on the beach. The

onagers being unharnessed, were thence led to their stable, and Penc roft

before going to sleep gave vent to his feelings in a deep sigh of satisfaction that awoke all the echoes of Granite House.

Chapter 8

The first week of January was devoted to the manufacture of the line

garments required by the colony. The needles found in the box were u sed by

sturdy if not delicate fingers, and we may be sure that what was sew n was

sewn firmly.

There was no lack of thread, thanks to Cyrus Harding's idea of reemploying that which had been already used in the covering of the balloon.

This with admirable patience was all unpicked by Gideon Spilett and Herbert, for Pencroft had been obliged to give this work up, as it irritated him beyond measure; but he had no equal in the sewing part of the

business. Indeed, everybody knows that sailors have a remarkable aptitude

for tailoring.

The cloth of which the balloon-case was made was then cleaned by means of

soda and potash, obtained by the incineration of plants, in such a way that

the cotton, having got rid of the varnish, resumed its natural softn ess and

elasticity; then, exposed to the action of the atmosphere, it soon b

ecame

perfectly white. Some dozen shirts and sock--the latter not knitted, of

course, but made of cotton--were thus manufactured. What a comfort i t was

to the settlers to clothe themselves again in clean linen, which was

doubtless rather rough, but they were not troubled about that! and then to

go to sleep between sheets, which made the couches at Granite House into

quite comfortable beds!

It was about this time also that they made boots of seal-leather, which

were greatly needed to replace the shoes and boots brought from America. We

may be sure that these new shoes were large enough and never pinched the

feet of the wearers.

With the beginning of the year 1866 the heat was very great, but the

hunting in the forests did not stand still. Agouties, peccaries, cap ybaras,

kangaroos, game of all sorts, actually swarmed there, and Spilett an

Herbert were too good marksmen ever to throw away their shot useless ly.

Cyrus Harding still recommended them to husband the ammunition, and he

took measures to replace the powder and shot which had been found in the

box, and which he wished to reserve for the future. How did he know where

chance might one day cast his companions and himself in the event of their

leaving their domain? They should, then, prepare for the unknown fut ure by

husbanding their ammunition and by substituting for it some easily renewable substance.

To replace lead, of which Harding had found no traces in the island, he

employed granulated iron, which was easy to manufacture. These bulle ts, not

having the weight of leaden bullets, were made larger, and each char ge

contained less, but the skill of the sportsmen made up this deficien cv. As

to powder, Cyrus Harding would have been able to make that also, for he had

at his disposal saltpeter, sulphur, and coal; but this preparation requires

extreme care, and without special tools it is difficult to produce i

t of a

good quality. Harding preferred, therefore, to manufacture pyroxyle, that

is to say gun-cotton, a substance in which cotton is not indispensable, as

the elementary tissue of vegetables may be used, and this is found in an

almost pure state, not only in cotton, but in the textile fiber of hemp and

flax, in paper, the pith of the elder, etc. Now, the elder abounded in the

island towards the mouth of Red Creek, and the colonists had already made

coffee of the berries of these shrubs, which belong to the family of the

caprifoliaceae.

The only thing to be collected, therefore, was elder-pith, for as to the

other substance necessary for the manufacture of pyroxyle, it was on ly

fuming azotic acid. Now, Harding having sulphuric acid at his dispos al, had

already been easily able to produce azotic acid by attacking the sal tpeter

with which nature supplied him. He accordingly resolved to manufacture and

employ pyroxyle, although it has some inconveniences, that is to say , a

great inequality of effect, an excessive inflammability, since it takes

fire at one hundred and seventy degrees instead of two hundred and forty,

and lastly, an instantaneous deflagration which might damage the fir earms.

On the other hand, the advantages of pyroxyle consist in this, that it is

not injured by damp, that it does not make the gun-barrels dirty, an d that

its force is four times that of ordinary powder.

To make pyroxyle, the cotton must be immersed in the fuming azotic a cid

for a quarter of an hour, then washed in cold water and dried. Nothing

could be more simple.

Cyrus Harding had only at his disposal the ordinary azotic acid and not

the fuming or monohydrate azotic acid, that is to say, acid which em its

white vapors when it comes in contact with damp air; but by substituting

for the latter ordinary azotic acid, mixed, in the proportion of from three

to five volumes of concentrated sulphuric acid, the engineer obtaine

d the

same result. The sportsmen of the island therefore soon had a perfectly

prepared substance, which, employed discreetly, produced admirable results.

About this time the settlers cleared three acres of the plateau, and the

rest was preserved in a wild state, for the benefit of the onagers. Several

excursions were made into the Jacamar Wood and the forests of the Far West,

and they brought back from thence a large collection of wild vegetables,

spinach, cress, radishes, and turnips, which careful culture would soon

improve, and which would temper the regimen on which the settlers had till

then subsisted. Supplies of wood and coal were also carted. Each excursion

was at the same time a means of improving the roads, which gradually became

smoother under the wheels of the cart.

The rabbit-warren still continued to supply the larder of Granite House.

As fortunately it was situated on the other side of Creek Glycerine, its

inhabitants could not reach the plateau nor ravage the newly-made plantation. The oyster-bed among the rocks was frequently renewed and

furnished excellent molluscs. Besides that, the fishing, either in the lake

or the Mercy, was very profitable, for Pencroft had made some lines, armed

with iron hooks, with which they frequently caught fine trout, and a

species of fish whose silvery sides were speckled with yellow, and w hich

were also extremely savory. Master Neb, who was skilled in the culin ary

art, knew how to vary agreeably the bill of fare. Bread alone was wanting

at the table of the settlers, and as has been said, they felt this privation greatly.

The settlers hunted too the turtles which frequented the shores of C ape

Mandible. At this place the beach was covered with little mounds, concealing perfectly spherical turtles' eggs, with white hard shells . the

albumen of which does not coagulate as that of birds' eggs. They wer e

hatched by the sun, and their number was naturally considerable, as each

turtle can lay annually two hundred and fifty.

"A regular egg-field," observed Gideon Spilett, "and we have nothing do but to pick them up."

But not being contented with simply the produce, they made chase aft

the producers, the result of which was that they were able to bring back to

Granite House a dozen of these chelonians, which were really valuabl

an alimentary point of view. The turtle soup, flavored with aromatic herbs.

often gained well-merited praises for its preparer, Neb.

We must here mention another fortunate circumstance by which new sto res

for the winter were laid in. Shoals of salmon entered the Mercy, and

ascended the country for several miles. It was the time at which the

females, going to find suitable places in which to spawn, precede th e males

and make a great noise through the fresh water. A thousand of these fish,

which measured about two feet and a half in length, came up the rive r, and

a large quantity were retained by fixing dams across the stream. Mor

a hundred were thus taken, which were salted and stored for the time

winter, freezing up the streams, would render fishing impracticable.

this time the intelligent Jup was raised to the duty of valet. He ha d been

dressed in a jacket, white linen breeches, and an apron, the pockets

which were his delight. The clever orang had been marvelously traine d by

Neb, and any one would have said that the Negro and the ape understo od each

other when they talked together. Jup had besides a real affection fo r Neb,

and Neb returned it. When his services were not required, either for

carrying wood or for climbing to the top of some tree, Jup passed th

greatest part of his time in the kitchen, where he endeavored to imi tate

Neb in all that he saw him do. The black showed the greatest patienc

even extreme zeal in instructing his pupil, and the pupil exhibited remarkable intelligence in profiting by the lessons he received from his

master.

Judge then of the pleasure Master Jup gave to the inhabitants of Granite

House when, without their having had any idea of it, he appeared one day,

napkin on his arm, ready to wait at table. Quick, attentive, he acquitted

himself perfectly, changing the plates, bringing dishes, pouring out water,

all with a gravity which gave intense amusement to the settlers, and which

enraptured Pencroft.

"Jup, some soup!"

"Jup, a little agouti!"

"Jup, a plate!"

"Jup! Good Jup! Honest Jup!"

Nothing was heard but that, and Jup without ever being disconcerted,

replied to every one, watched for everything, and he shook his head in a

knowing way when Pencroft, referring to his joke of the first day, s aid to him,--

"Decidedly, Jup, your wages must be doubled."

It is useless to say that the orang was now thoroughly domesticated at

Granite House, and that he often accompanied his masters to the fore st

without showing any wish to leave them. It was most amusing to see h im

walking with a stick which Pencroft had given him, and which he carried on

his shoulder like a gun. If they wished to gather some fruit from the

summit of a tree, how quickly he climbed for it. If the wheel of the cart

stuck in the mud, with what energy did Jup with a single heave of his

shoulder put it right again.

"What a jolly fellow he is!" cried Pencroft often. "If he was as mischievous as he is good, there would be no doing anything with him!"

It was towards the end of January the colonists began their labors in the

center of the island. It had been decided that a corral should be established near the sources of the Red Creek, at the foot of Mount Franklin, destined to contain the ruminants, whose presence would have been

troublesome at Granite House, and especially for the musmons, who we re to

supply the wool for the settlers' winter garments.

Each morning, the colony, sometimes entire, but more often represent ed

only by Harding, Herbert, and Pencroft, proceeded to the sources of the

Creek, a distance of not more than five miles, by the newly beaten \boldsymbol{r} oad to

which the name of Corral Road had been given.

There a site was chosen, at the back of the southern ridge of the mountain. It was a meadow land, dotted here and there with clumps of trees,

and watered by a little stream, which sprung from the slopes which c losed

it in on one side. The grass was fresh, and it was not too much shad ed by

the trees which grew about it. This meadow was to be surrounded by a

palisade, high enough to prevent even the most agile animals from le aping

over. This enclosure would be large enough to contain a hundred musm ons and

wild goats, with all the young ones they might produce.

The perimeter of the corral was then traced by the engineer, and the y

would then have proceeded to fell the trees necessary for the construction

of the palisade, but as the opening up of the road had already neces sitated

the sacrifice of a considerable number, those were brought and supplied a

hundred stakes, which were firmly fixed in the ground.

The construction of this corral did not take less than three weeks, for

besides the palisade, Cyrus Harding built large sheds, in which the animals

could take shelter. These buildings had also to be made very strong, for

musmons are powerful animals, and their first fury was to be feared. The

stakes, sharpened at their upper end and hardened by fire, had been fixed

by means of cross-bars, and at regular distances props assured the solidity

of the whole.

The corral finished, a raid had to be made on the pastures frequente d by

the ruminants. This was done on the 7th of February, on a beautiful summer's day, and every one took part in it. The onagers, already we ll

trained, were ridden by Spilett and Herbert, and were of great use.

The maneuver consisted simply in surrounding the musmons and goats, and

gradually narrowing the circle around them. Cyrus Harding, Pencroft, Neb,

and Jup, posted themselves in different parts of the wood, while the two

cavaliers and Top galloped in a radius of half a mile round the corr al.

The musmons were very numerous in this part of the island. These fin

animals were as large as deer; their horns were stronger than those of the

ram, and their gray-colored fleece was mixed with long hair.

This hunting day was very fatiguing. Such going and coming, and runn ing

and riding and shouting! Of a hundred musmons which had been surroun ded,

more than two-thirds escaped, but at last, thirty of these animals a nd ten

wild goats were gradually driven back towards the corral, the open door of

which appearing to offer a means of escape, they rushed in and were prisoners.

In short, the result was satisfactory, and the settlers had no reaso n to

complain. There was no doubt that the flock would prosper, and that at no

distant time not only wool but hides would be abundant.

That evening the hunters returned to Granite House quite exhausted. However, notwithstanding their fatigue, they returned the next day to visit

the corral. The prisoners had been trying to overthrow the palisade, but of

course had not succeeded, and were not long in becoming more tranquil.

During the month of February, no event of any importance occurred. The

daily labors were pursued methodically, and, as well as improving the roads

to the corral and to Port Balloon, a third was commenced, which, starting

from the enclosure, proceeded towards the western coast. The yet unk

portion of Lincoln Island was that of the wood-covered Serpentine Peninsula, which sheltered the wild beasts, from which Gideon Spilet t was

so anxious to clear their domain.

Before the cold season should appear the most assiduous care was giv

en to

the cultivation of the wild plants which had been transplanted from the

forest to Prospect Heights. Herbert never returned from an excursion

without bringing home some useful vegetable. One day, it was some specimens

of the chicory tribe, the seeds of which by pressure yield an excell ent.

oil; another, it was some common sorrel, whose antiscorbutic qualities were

not to be despised; then, some of those precious tubers, which have at all

times been cultivated in South America, potatoes, of which more than two

hundred species are now known. The kitchen garden, now well stocked and

carefully defended from the birds, was divided into small beds, where grew

lettuces, kidney potatoes, sorrel, turnips, radishes, and other cone iferae.

The soil on the plateau was particularly fertile, and it was hoped that the

harvests would be abundant.

They had also a variety of different beverages, and so long as they did

not demand wine, the most hard to please would have had no reason to

complain. To the Oswego tea, and the fermented liquor extracted from the

roots of the dragonnier, Harding had added a regular beer, made from the

young shoots of the spruce-fir, which, after having been boiled and fermented, made that agreeable drink called by the Anglo-Americans s pring-

beer.

Towards the end of the summer, the poultry-yard was possessed of a couple

of fine bustards, which belonged to the houbara species, characterized by a

sort of feathery mantle; a dozen shovelers, whose upper mandible was

prolonged on each side by a membraneous appendage; and also some magnificent cocks, similar to the Mozambique cocks, the comb, carunc le, and

epidermis being black. So far, everything had succeeded, thanks to the

activity of these courageous and intelligent men. Nature did much for them,

doubtless; but faithful to the great precept, they made a right use of what

a bountiful Providence gave them.

After the heat of these warm summer days, in the evening when their

work

was finished and the sea-breeze began to blow, they liked to sit on the

edge of Prospect Heights, in a sort of veranda, covered with creeper s,

which Neb had made with his own hands. There they talked, they instructed

each other, they made plans, and the rough good-humor of the sailor always

amused this little world, in which the most perfect harmony had neve r ceased to reign.

They often spoke of their country, of their dear and great America. What

was the result of the War of Secession? It could not have been great ly

prolonged. Richmond had doubtless soon fallen into the hands of Gene ral

Grant. The taking of the capital of the Confederates must have been the

last action of this terrible struggle. Now the North had triumphed in the

good cause, how welcome would have been a newspaper to the exiles in

Lincoln Island! For eleven months all communication between them and the

rest of their fellow-creatures had been interrupted, and in a short time

the 24th of March would arrive, the anniversary of the day on which the

balloon had thrown them on this unknown coast. They were then mere castaways, not even knowing how they should preserve their miserable lives

from the fury of the elements! And now, thanks to the knowledge of their

captain, and their own intelligence, they were regular colonists, furnished

with arms, tools, and instruments; they had been able to turn to the ir

profit the animals, plants, and minerals of the island, that is to say, the

three kingdoms of Nature.

Yes; they often talked of all these things and formed still more plans.

As to Cyrus Harding he was for the most part silent, and listened to his

companions more often than he spoke to them. Sometimes he smiled at Herbert's ideas or Pencroft's nonsense, but always and everywhere he

pondered over those inexplicable facts, that strange enigma, of which the

secret still escaped him!

Chapter 9

The weather changed during the first week of March. There had been a full

moon at the commencement of the month, and the heat was excessive. The

atmosphere was felt to be full of electricity, and a period of some length

of tempestuous weather was to be feared.

Indeed, on the 2nd, peals of thunder were heard, the wind blew from the

east, and hail rattled against the facade of Granite House like volleys of

grape-shot. The door and windows were immediately closed, or everything in

the rooms would have been drenched. On seeing these hailstones, some of

which were the size of a pigeon's egg, Pencroft's first thought was that

his cornfield was in serious danger.

He directly rushed to his field, where little green heads were alrea dy

appearing, and by means of a great cloth, he managed to protect his crop.

This bad weather lasted a week, during which time the thunder rolled without cessation in the depths of the sky.

The colonists, not having any pressing work out of doors, profited by the

bad weather to work at the interior of Granite House, the arrangemen t of

which was becoming more complete from day to day. The engineer made a

turning-lathe, with which he turned several articles both for the to ilet

and the kitchen, particularly buttons, the want of which was greatly felt.

A gunrack had been made for the firearms, which were kept with extre me

care, and neither tables nor cupboards were left incomplete. They sa wed,

they planed, they filed, they turned; and during the whole of this b ad

season, nothing was heard but the grinding of tools or the humming of the

turning-lathe which responded to the growling of the thunder.

Master Jup had not been forgotten, and he occupied a room at the bac \mathbf{k} ,

near the storeroom, a sort of cabin with a cot always full of good litter,

which perfectly suited his taste.

"With good old Jup there is never any quarreling," often repeated Pencroft, "never any improper reply. What a servant, Neb, what a servant!"

Of course Jup was now well used to service. He brushed their clothes , he

turned the spit, he waited at table, he swept the rooms, he gathered wood,

and he performed another admirable piece of service which delighted Pencroft--he never went to sleep without first coming to tuck up the worthy

sailor in his bed.

As to the health of the members of the colony, bipeds or bimana, quadrumana or quadrupeds, it left nothing to be desired. With their life in

the open air, on this salubrious soil, under that temperate zone, working

both with head and hands, they could not suppose that illness would ever

attack them.

All were indeed wonderfully well. Herbert had already grown two inch es in

the year. His figure was forming and becoming more manly, and he pro mised

to be an accomplished man, physically as well as morally. Besides he

improved himself during the leisure hours which manual occupations 1 eft to

him; he read the books found in the case; and after the practical le ssons

which were taught by the very necessity of their position, he found in the

engineer for science, and the reporter for languages, masters who we re

delighted to complete his education.

The tempest ended about the 9th of March, but the sky remained cover ed

with clouds during the whole of this last summer month. The atmosphe re,

violently agitated by the electric commotions, could not recover its former

purity, and there was almost invariably rain and fog, except for three or

four fine days on which several excursions were made. About this time the

female onager gave birth to a young one which belonged to the same s ex as

its mother, and which throve capitally. In the corral, the flock of musmons

had also increased, and several lambs already bleated in the sheds, to the

great delight of Neb and Herbert, who had each their favorite among these

newcomers. An attempt was also made for the domestication of the pec caries,

which succeeded well. A sty was constructed under the poultry-yard, and

soon contained several young ones in the way to become civilized, that is

to say, to become fat under Neb's care. Master Jup, entrusted with c arrying

them their daily nourishment, leavings from the kitchen, etc., acquitted

himself conscientiously of his task. He sometimes amused himself at the

expense of his little pensioners by tweaking their tails; but this was

mischief, and not wickedness, for these little twisted tails amused him

like a plaything, and his instinct was that of a child. One day in this

month of March, Pencroft, talking to the engineer, reminded Cyrus Harding

of a promise which the latter had not as yet had time to fulfil.

"You once spoke of an apparatus which would take the place of the long

ladders at Granite House, captain, "said he; "won't you make it some day?"

"Nothing will be easier; but is this a really useful thing?"

"Certainly, captain. After we have given ourselves necessaries, let us

think a little of luxury. For us it may be luxury, if you like, but for

things it is necessary. It isn't very convenient to climb up a long ladder

when one is heavily loaded."

"Well, Pencroft, we will try to please you," replied Cyrus Harding.

"But you have no machine at your disposal."

"We will make one."

"A steam machine?"

"No, a water machine."

And, indeed, to work his apparatus there was already a natural force at

the disposal of the engineer which could be used without great difficulty.

For this, it was enough to augment the flow of the little stream which

supplied the interior of Granite House with water. The opening among

the

stones and grass was then increased, thus producing a strong fall at the

bottom of the passage, the overflow from which escaped by the inner well.

Below this fall the engineer fixed a cylinder with paddles, which was

joined on the exterior with a strong cable rolled on a wheel, supporting a

basket. In this way, by means of a long rope reaching to the ground, which

enabled them to regulate the motive power, they could rise in the basket to

the door of Granite House.

It was on the 17th of March that the lift acted for the first time, and

gave universal satisfaction. Henceforward all the loads, wood, coal,

provisions, and even the settlers themselves, were hoisted by this simple

system, which replaced the primitive ladder, and, as may be supposed, no

one thought of regretting the change. Top particularly was enchanted with

this improvement, for he had not, and never could have possessed Mas ter

Jup's skill in climbing ladders, and often it was on Neb's back, or even on

that of the orang that he had been obliged to make the ascent to Granite

House. About this time, too, Cyrus Harding attempted to manufacture glass,

and he at first put the old pottery-kiln to this new use. There were some

difficulties to be encountered; but, after several fruitless attempt s, he

succeeded in setting up a glass manufactory, which Gideon Spilett and

Herbert, his usual assistants, did not leave for several days. As to the

substances used in the composition of glass, they are simply sand, c halk,

and soda, either carbonate or sulphate. Now the beach supplied sand, lime

supplied chalk, sea-weeds supplied soda, pyrites supplied sulphuric acid,

and the ground supplied coal to heat the kiln to the wished-for temperature. Cyrus Harding thus soon had everything ready for setting to work.

The tool, the manufacture of which presented the most difficulty, was the

pipe of the glass-maker, an iron tube, five or six feet long, which collects on one end the material in a state of fusion. But by means

of a long, thin piece of iron rolled up like the barrel of a gun, Pencrof t succeeded in making a tube soon ready for use.

On the 28th of March the tube was heated. A hundred parts of sand, thirty-five of chalk, forty of sulphate of soda, mixed with two or three

parts of powdered coal, composed the substance, which was placed in crucibles. When the high temperature of the oven had reduced it to a

liquid, or rather a pasty state, Cyrus Harding collected with the tu be a

quantity of the paste: he turned it about on a metal plate, previous ly

arranged, so as to give it a form suitable for blowing, then he pass ed the

tube to Herbert, telling him to blow at the other extremity.

And Herbert, swelling out his cheeks, blew so much and so well into the

tube-taking care to twirl it round at the same time--that his breath

dilated the glassy mass. Other quantities of the substance in a state of

fusion were added to the first, and in a short time the result was a bubble

which measured a foot in diameter. Harding then took the tube out of

Herbert's hands, and, giving it a pendulous motion, he ended by leng thening

the malleable bubble so as to give it a cylindroconic shape.

The blowing operation had given a cylinder of glass terminated by two

hemispheric caps, which were easily detached by means of a sharp iro

dipped in cold water; then, by the same proceeding, this cylinder was cut

lengthways, and after having been rendered malleable by a second heating,

it was extended on a plate and spread out with a wooden roller.

The first pane was thus manufactured, and they had only to perform this

operation fifty times to have fifty panes. The windows at Granite House

were soon furnished with panes; not very white, perhaps, but still sufficiently transparent.

As to bottles and tumblers, that was only play. They were satisfied with

them, besides, just as they came from the end of the tube. Pencroft had

asked to be allowed to "blow" in his turn, and it was great fun for him;

but he blew so hard that his productions took the most ridiculous sh apes,

which he admired immensely.

Cyrus Harding and Herbert, while hunting one day, had entered the forest

of the Far West, on the left bank of the Mercy, and, as usual, the ${\tt l}$ ad was

asking a thousand questions of the engineer, who answered them heart ily.

Now, as Harding was not a sportsman, and as, on the other side, Herb ert was

talking chemistry and natural philosophy, numbers of kangaroos, capy baras,

and agouties came within range, which, however, escaped the lad's gu n; the

consequence was that the day was already advanced, and the two hunters were

in danger of having made a useless excursion, when Herbert, stopping , and

uttering a cry of joy, exclaimed, --

"Oh, Captain Harding, do you see that tree?" and he pointed to a shr ub,

rather than a tree, for it was composed of a single stem, covered with a

scaly bark, which bore leaves streaked with little parallel veins.

"And what is this tree which resembles a little palm?" asked Harding .

"It is a 'cycas revoluta,' of which I have a picture in our dictionary of Natural History!" said Herbert.

"But I can't see any fruit on this shrub!" observed his companion.

"No, captain," replied Herbert; "but its stem contains a flour with which nature has provided us all ready ground."

"It is, then, the bread-tree?"

"Yes, the bread-tree."

"Well, my boy," replied the engineer, "this is a valuable discovery,

since our wheat harvest is not yet ripe; I hope that you are not mis taken!"

Herbert was not mistaken: he broke the stem of a cycas, which was composed of a glandulous tissue, containing a quantity of floury pit h,

traversed with woody fiber, separated by rings of the same substance

arranged concentrically. With this fecula was mingled a mucilaginous

juice

of disagreeable flavor, but which it would be easy to get rid of by pressure. This cellular substance was regular flour of a superior quality,

extremely nourishing; its exportation was formerly forbidden by the Japanese laws.

Cyrus Harding and Herbert, after having examined that part of the Fa

West where the cycas grew, took their bearings, and returned to Gran ite

House, where they made known their discovery.

The next day the settlers went to collect some, and returned to Gran ite

House with an ample supply of cycas stems. The engineer constructed a

press, with which to extract the mucilaginous juice mingled with the

fecula, and he obtained a large quantity of flour, which Neb soon transformed into cakes and puddings. This was not quite real wheaten bread,

but it was very like it.

Now, too, the onager, the goats, and the sheep in the corral furnish ed

daily the milk necessary to the colony. The cart, or rather a sort of light

carriole which had replaced it, made frequent journeys to the corral , and

when it was Pencroft's turn to go he took Jup, and let him drive, and Jup,

cracking his whip, acquitted himself with his customary intelligence

Everything prospered, as well in the corral as in Granite House, and

certainly the settlers, if it had not been that they were so far fro ${\tt m}$ their

native land, had no reason to complain. They were so well suited to this

life, and were, besides, so accustomed to the island, that they could not

have left its hospitable soil without regret!

And yet so deeply is the love of his country implanted in the heart of

man, that if a ship had unexpectedly come in sight of the island, the

colonists would have made signals, would have attracted her attentio ${\tt n}$, and

would have departed!

It was the 1st of April, a Sunday, Easter Day, which Harding and his companions sanctified by rest and prayer. The day was fine, such as

an

October day in the Northern Hemisphere might be.

All, towards the evening after dinner, were seated under the veranda on

the edge of Prospect Heights, and they were watching the darkness creeping

up from the horizon. Some cups of the infusion of elder-berries, whi ch took

the place of coffee, had been served by Neb. They were speaking of the

island and of its isolated situation in the Pacific, which led Gideo n

Spilett to say, --

"My dear Cyrus, have you ever, since you possessed the sextant found in

the case, again taken the position of our island?"

"No," replied the engineer.

"But it would perhaps be a good thing to do it with this instrument, which is more perfect than that which you before used."

"What is the good?" said Pencroft. "The island is quite comfortable where it is!"

"Well, who knows," returned the reporter, "who knows but that we may be much nearer inhabited land than we think?"

"We shall know to-morrow," replied Cyrus Harding, "and if it had not been

for the occupations which left me no leisure, we should have known it already."

"Good!" said Pencroft. "The captain is too good an observer to be mistaken, and, if it has not moved from its place, the island is just where he put it."

"We shall see."

On the next day, therefore, by means of the sextant, the engineer $\mbox{\it ma}$ de

the necessary observations to verify the position which he had already

obtained, and this was the result of his operation. His first observation

had given him the situation of Lincoln Island, --

In west longitude: from 1500 to 1550;

In south latitude: from 300 to 350

The second gave exactly:

In longitude: 1500 30'

In south latitude: 340 57'

So then, notwithstanding the imperfection of his apparatus, Cyrus Harding

had operated with so much skill that his error did not exceed five d egrees.

"Now," said Gideon Spilett, "since we possess an atlas as well as a sextant, let us see, my dear Cyrus, the exact position which Lincoln Island occupies in the Pacific."

Herbert fetched the atlas, and the map of the Pacific was opened, and the engineer, compass in hand, prepared to determine their position.

Suddenly the compasses stopped, and he exclaimed,

"But an island exists in this part of the Pacific already!"

"An island?" cried Pencroft.

"Tabor Island."

"An important island?"

"No, an islet lost in the Pacific, and which perhaps has never been visited."

"Well, we will visit it," said Pencroft.

"We?"

"Yes, captain. We will build a decked boat, and I will undertake to steer

her. At what distance are we from this Tabor Island?"

"About a hundred and fifty miles to the northeast," replied Harding.

"A hundred and fifty miles! And what's that?" returned Pencroft. "In forty-eight hours, with a good wind, we should sight it!"

And, on this reply, it was decided that a vessel should be construct ed in time to be launched towards the month of next October, on the return

of the fine season.

Chapter 10

When Pencroft had once got a plan in his head, he had no peace till it was

executed. Now he wished to visit Tabor Island, and as a boat of a certain

size was necessary for this voyage, he determined to build one.

What wood should he employ? Elm or fir, both of which abounded in the

island? They decided for the fir, as being easy to work, but which stands

water as well as the elm.

These details settled, it was agreed that since the fine season would not

return before six months, Cyrus Harding and Pencroft should work alo ne at

the boat. Gideon Spilett and Herbert were to continue to hunt, and n either

Neb nor Master Jup, his assistant, were to leave the domestic duties which

had devolved upon them.

Directly the trees were chosen, they were felled, stripped of their branches, and sawn into planks as well as sawyers would have been ab le to

do it. A week after, in the recess between the Chimneys and the clif ${\sf f}$, a

dockyard was prepared, and a keel five-and-thirty feet long, furnish ed with

a stern-post at the stern and a stem at the bows, lay along the sand \cdot

Cyrus Harding was not working in the dark at this new trade. He knew as

much about ship-building as about nearly everything else, and he had at

first drawn the model of his ship on paper. Besides, he was ably sec onded

by Pencroft, who, having worked for several years in a dockyard in Brooklyn, knew the practical part of the trade. It was not until aft er

careful calculation and deep thought that the timbers were laid on the

keel.

Pencroft, as may be believed, was all eagerness to carry out his new enterprise, and would not leave his work for an instant.

A single thing had the honor of drawing him, but for one day only, f

rom

his dockyard. This was the second wheat-harvest, which was gathered in on

the 15th of April. It was as much a success as the first, and yielde d the

number of grains which had been predicted.

"Five bushels, captain," said Pencroft, alter having scrupulously measured his treasure.

"Five bushels," replied the engineer; "and a hundred and thirty thou sand

grains a bushel will make six hundred and fifty thousand grains."

"Well, we will sow them all this time," said the sailor, "except a little in reserve."

"Yes, Pencroft, and if the next crop gives a proportionate yield, we shall have four thousand bushels."

"And shall we eat bread?"

"We shall eat bread."

"But we must have a mill.

"We will make one."

The third corn-field was very much larger than the two first, and the

soil, prepared with extreme care, received the precious seed. That d one,

Pencroft returned to his work.

During this time Spilett and Herbert hunted in the neighborhood, and they

ventured deep into the still unknown parts of the Far West, their gu ns

loaded with ball, ready for any dangerous emergency. It was a vast thicket

of magnificent trees, crowded together as if pressed for room. The exploration of these dense masses of wood was difficult in the extre me, and

the reporter never ventured there without the pocket-compass, for the sun

scarcely pierced through the thick foliage and it would have been very

difficult for them to retrace their way. It naturally happened that game

was more rare in those situations where there was hardly sufficient room to

move; two or three large herbivorous animals were however killed during the

last fortnight of April. These were koalas, specimens of which the s

ettlers

had already seen to the north of the lake, and which stupidly allowe ${\tt d}$

themselves to be killed among the thick branches of the trees in whi ch they

took refuge. Their skins were brought back to Granite House, and the re, by

the help of sulphuric acid, they were subjected to a sort of tanning process which rendered them capable of being used.

On the 30th of April, the two sportsmen were in the depth of the Far

West, when the reporter, preceding Herbert a few paces, arrived in a sort

of clearing, into which the trees more sparsely scattered had permit ted a

few rays to penetrate. Gideon Spilett was at first surprised at the odor

which exhaled from certain plants with straight stalks, round and br anchy,

bearing grape-like clusters of flowers and very small berries. The reporter

broke off one or two of these stalks and returned to the lad, to who m he said,--

"What can this be, Herbert?"

"Well, Mr. Spilett," said Herbert, "this is a treasure which will se cure you Pencroft's gratitude forever."

"Is it tobacco?"

"Yes, and though it may not be of the first quality, it is none the less tobacco!"

"Oh, good old Pencroft! Won't he be pleased! But we must not let him smoke it all, he must give us our share."

"Ah! an idea occurs to me, Mr, Spilett," replied Herbert. "Don't let us

say anything to Pencroft yet; we will prepare these leaves, and one fine

day we will present him with a pipe already filled!"

"All right, Herbert, and on that day our worthy companion will have nothing left to wish for in this world."

The reporter and the lad secured a good store of the precious plant, and

then returned to Granite House, where they smuggled it in with as much

precaution as if Pencroft had been the most vigilant and severe of c ustom-

house officers.

Cyrus Harding and Neb were taken into confidence, and the sailor suspected nothing during the whole time, necessarily somewhat long, which

was required in order to dry the small leaves, chop them up, and subject

them to a certain torrefaction on hot stones. This took two months; but all

these manipulations were successfully carried on unknown to Pencroft , for,

occupied with the construction of his boat, he only returned to Gran ite

House at the hour of rest.

For some days they had observed an enormous animal two or three mile s out

in the open sea swimming around Lincoln Island. This was a whale of the

largest size, which apparently belonged to the southern species, called

the "Cape Whale."

"What a lucky chance it would be if we could capture it!" cried the sailor. "Ah! if we only had a proper boat and a good harpoon, I would say

'After the beast,' for he would be well worth the trouble of catchin g!"

"Well, Pencroft," observed Harding, "I should much like to watch you handling a harpoon. It would be very interesting."

"I am astonished," said the reporter, "to see a whale in this comparatively high latitude."

"Why so, Mr. Spilett?" replied Herbert. "We are exactly in that part of

the Pacific which English and American whalemen call the whale field \cdot and

it is here, between New Zealand and South America, that the whales of the

Southern Hemisphere are met with in the greatest numbers."

And Pencroft returned to his work, not without uttering a sigh of regret,

for every sailor is a born fisherman, and if the pleasure of fishing is in

exact proportion to the size of the animal, one can judge how a whal er

feels in sight of a whale. And if this had only been for pleasure! B ut they

could not help feeling how valuable such a prize would have been to the

colony, for the oil, fat, and bones would have been put to many uses $\boldsymbol{\cdot}$

Now it happened that this whale appeared to have no wish to leave the

waters of the island. Therefore, whether from the windows of Granite House,

or from Prospect Heights, Herbert and Gideon Spilett, when they were not.

hunting, or Neb, unless presiding over his fires, never left the tel escope,

but watched all the animal's movements. The cetacean, having entered far

into Union Bay, made rapid furrows across it from Mandible Cape to Claw

Cape, propelled by its enormously powerful flukes, on which it supported

itself, and making its way through the water at the rate little shor t of

twelve knots an hour. Sometimes also it approached so near to the is land

that it could be clearly distinguished. It was the southern whale, w hich is

completely black, the head being more depressed than that of the nor thern whale.

They could also see it throwing up from its air-holes to a great height a

cloud of vapor, or of water, for, strange as it may appear, naturalists and

whalers are not agreed on this subject. Is it air or is it water whi ch is

thus driven out? It is generally admitted to be vapor, which, conden sing

suddenly by contact with the cold air, falls again as rain.

However, the presence of this mammifer preoccupied the colonists. It

irritated Pencroft especially, as he could think of nothing else whi le at

work. He ended by longing for it, like a child for a thing which it has

been denied. At night he talked about it in his sleep, and certainly if he

had had the means of attacking it, if the sloop had been in a fit st ate to

put to sea, he would not have hesitated to set out in pursuit.

But what the colonists could not do for themselves chance did for them,

and on the 3rd of May shouts from Neb, who had stationed himself at the

kitchen window, announced that the whale was stranded on the beach of the $% \left(1\right) =\left(1\right) +\left(1\right) +$

island.

Herbert and Gideon Spilett, who were just about to set out hunting, left

their guns, Pencroft threw down his ax, and Harding and Neb joining their

companions, all rushed towards the scene of action.

The stranding had taken place on the beach of Flotsam Point, three ${\tt m}$ iles

from Granite House, and at high tide. It was therefore probable that the

cetacean would not be able to extricate itself easily; at any rate it was

best to hasten, so as to cut off its retreat if necessary. They ran with

pick-axes and iron-tipped poles in their hands, passed over the Merc

bridge, descended the right bank of the river, along the beach, and in less

than twenty minutes the settlers were close to the enormous animal, above

which flocks of birds already hovered.

"What a monster!" cried Neb.

And the exclamation was natural, for it was a southern whale, eighty feet

long, a giant of the species, probably not weighing less than a hund red and

fifty thousand pounds!

In the meanwhile, the monster thus stranded did not move, nor attemp t by

struggling to regain the water while the tide was still high.

It was dead, and a harpoon was sticking out of its left side.

"There are whalers in these quarters, then?" said Gideon Spilett directly.

"Oh, Mr. Spilett, that doesn't prove anything!" replied Pencroft. "W hales

have been known to go thousands of miles with a harpoon in the side, and

this one might even have been struck in the north of the Atlantic and come

to die in the south of the Pacific, and it would be nothing astonish ing."

Pencroft, having torn the harpoon from the animal's side, read this inscription on it:

"A vessel from the Vineyard! A ship from my country!" he cried. "The 'Maria Stella!' A fine whaler, 'pon my word; I know her well! Oh, my friends, a vessel from the Vineyard!--a whaler from the Vineyard!"

And the sailor brandishing the harpoon, repeated, not without emotion,

the name which he loved so well--the name of his birthplace.

But as it could not be expected that the "Maria Stella" would come to

reclaim the animal harpooned by her, they resolved to begin cutting it up

before decomposition should commence. The birds, who had watched this rich

prey for several days, had determined to take possession of it without

further delay, and it was necessary to drive them off by firing at $\ensuremath{\mathsf{t}}$ hem

repeatedly.

The whale was a female, and a large quantity of milk was taken from it,

which, according to the opinion of the naturalist Duffenbach, might pass

for cow's milk, and, indeed, it differs from it neither in taste, co lor,

nor density.

Pencroft had formerly served on board a whaling-ship, and he could methodically direct the operation of cutting up, a sufficiently disagreeable operation lasting three days, but from which the settle rs did

not flinch, not even Gideon Spilett, who, as the sailor said, would end by

making a "real good castaway."

The blubber, cut in parallel slices of two feet and a half in thickn

then divided into pieces which might weigh about a thousand pounds e ach,

was melted down in large earthen pots brought to the spot, for they did not

wish to taint the environs of Granite House, and in this fusion it lost

nearly a third of its weight.

But there was an immense quantity of it; the tongue alone yielded si \mathbf{x}

thousand pounds of oil, and the lower lip four thousand. Then, besid es the

fat, which would insure for a long time a store of stearine and glyc erine,

there were still the bones, for which a use could doubtless be found

,

although there were neither umbrellas nor stays used at Granite Hous e. The

upper part of the mouth of the cetacean was, indeed, provided on bot h sides

with eight hundred horny blades, very elastic, of a fibrous texture, and

fringed at the edge like great combs, at which the teeth, six feet l ong,

served to retain the thousands of animalculae, little fish, and moll uscs,

on which the whale fed.

The operation finished, to the great satisfaction of the operators, the

remains of the animal were left to the birds, who would soon make every

vestige of it disappear, and their usual daily occupations were resumed by

the inmates of Granite House.

However, before returning to the dockyard, Cyrus Harding conceived the

idea of fabricating certain machines, which greatly excited the curi osity

of his companions. He took a dozen of the whale's bones, cut them in to six

equal parts, and sharpened their ends.

"This machine is not my own invention, and it is frequently employed by

the Aleutian hunters in Russian America. You see these bones, my friends;

well, when it freezes, I will bend them, and then wet them with wate ${\tt r}$ till

they are entirely covered with ice, which will keep them bent, and I will

strew them on the snow, having previously covered them with fat. Now, what

will happen if a hungry animal swallows one of these baits? Why, the heat

of his stomach will melt the ice, and the bone, springing straight, will

pierce him with its sharp points."

"Well! I do call that ingenious!" said Pencroft.

"And it will spare the powder and shot," rejoined Cyrus Harding.

"That will be better than traps!" added Neb.

In the meanwhile the boat-building progressed, and towards the end of the

month half the planking was completed. It could already be seen that her

shape was excellent, and that she would sail well.

Pencroft worked with unparalleled ardor, and only a sturdy frame could

have borne such fatigue; but his companions were preparing in secret a

reward for his labors, and on the 31st of May he was to meet with on e of the greatest joys of his life.

On that day, after dinner, just as he was about to leave the table,

It was the hand of Gideon Spilett, who said, --

"One moment, Master Pencroft, you mustn't sneak off like that! You'v e forgotten your dessert."

"Thank you, Mr. Spilett," replied the sailor, "I am going back to my work."

"Well, a cup of coffee, my friend?"

Pencroft felt a hand on his shoulder.

"Nothing more."

"A pipe, then?"

Pencroft jumped up, and his great good-natured face grew pale when h e saw

the reporter presenting him with a ready-filled pipe, and Herbert wi th a glowing coal.

The sailor endeavored to speak, but could not get out a word; so, se izing

the pipe, he carried it to his lips, then applying the coal, he drew five

or six great whiffs. A fragrant blue cloud soon arose, and from its depths

a voice was heard repeating excitedly, --

"Tobacco! real tobacco!"

"Yes, Pencroft," returned Cyrus Harding, "and very good tobacco too!"

"O, divine Providence; sacred Author of all things!" cried the sailor.

"Nothing more is now wanting to our island."

And Pencroft smoked, and smoked, and smoked.

"And who made this discovery?" he asked at length. "You, Herbert, no doubt?"

"No, Pencroft, it was Mr. Spilett."

"Mr. Spilett!" exclaimed the sailor, seizing the reporter, and clasping

 \mbox{him} to his breast with such a squeeze that he had never felt anythin g like

it before.

"Oh Pencroft," said Spilett, recovering his breath at last, "a truce for

one moment. You must share your gratitude with Herbert, who recognized the

plant, with Cyrus, who prepared it, and with Neb, who took a great deal of

trouble to keep our secret."

"Well, my friends, I will repay you some day," replied the sailor. "Now

we are friends for life."

Chapter 11

Winter arrived with the month of June, which is the December of the northern zones, and the great business was the making of warm and so lid clothing.

The musmons in the corral had been stripped of their wool, and this precious textile material was now to be transformed into stuff.

Of course Cyrus Harding, having at his disposal neither carders, combers, polishers, stretchers, twisters, mule-jenny, nor self-acting

machine to spin the wool, nor loom to weave it, was obliged to proce ed in a

simpler way, so as to do without spinning and weaving. And indeed he

proposed to make use of the property which the filaments of wool pos

when subjected to a powerful pressure of mixing together, and of manufacturing by this simple process the material called felt. This felt

could then be obtained by a simple operation which, if it diminished the

flexibility of the stuff, increased its power of retaining heat in proportion. Now the wool furnished by the musmons was composed of very

short hairs, and was in a good condition to be felted.

The engineer, aided by his companions, including Pencroft, who was once

more obliged to leave his boat, commenced the preliminary operations , the

subject of which was to rid the wool of that fat and oily substance with

which it is impregnated, and which is called grease. This cleaning w as done

in vats filled with water, which was maintained at the temperature of

seventy degrees, and in which the wool was soaked for four-and-twenty

hours; it was then thoroughly washed in baths of soda, and, when sufficiently dried by pressure, it was in a state to be compressed, that is

to say, to produce a solid material, rough, no doubt, and such as would

have no value in a manufacturing center of Europe or America, but which

would be highly esteemed in the Lincoln Island markets.

This sort of material must have been known from the most ancient times,

and, in fact, the first woolen stuffs were manufactured by the process

which Harding was now about to employ. Where Harding's engineering qualifications now came into play was in the construction of the machine

for pressing the wool; for he knew how to turn ingeniously to profit the

mechanical force, hitherto unused, which the waterfall on the beach possessed to move a fulling-mill.

Nothing could be more rudimentary. The wool was placed in troughs, a nd

upon it fell in turns heavy wooden mallets; such was the machine in question, and such it had been for centuries until the time when the

mallets were replaced by cylinders of compression, and the material was no

longer subjected to beating, but to regular rolling.

The operation, ably directed by Cyrus Harding, was a complete succes

The wool, previously impregnated with a solution of soap, intended on the

one hand to facilitate the interlacing, the compression, and the sof tening

of the wool, and on the other to prevent its diminution by the beating,

issued from the mill in the shape of thick felt cloth. The roughness es with

which the staple of wool is naturally filled were so thoroughly entangled

and interlaced together that a material was formed equally suitable either

for garments or bedclothes. It was certainly neither merino, muslin,

cashmere, rep, satin, alpaca, cloth, nor flannel. It was "Lincolnian felt,"

and Lincoln Island possessed yet another manufacture. The colonists had now

warm garments and thick bedclothes, and they could without fear awai

approach of the winter of 1866-67.

The severe cold began to be felt about the 20th of June, and, to his

great regret, Pencroft was obliged to suspend his boat-building, whi ch he

hoped to finish in time for next spring.

The sailor's great idea was to make a voyage of discovery to Tabor Island, although Harding could not approve of a voyage simply for curiosity's sake, for there was evidently nothing to be found on thi

desert and almost arid rock. A voyage of a hundred and fifty miles i

comparatively small vessel, over unknown seas, could not but cause h im some

anxiety. Suppose that their vessel, once out at sea, should be unabl

reach Tabor Island, and could not return to Lincoln Island, what wou

become of her in the midst of the Pacific, so fruitful of disasters?

Harding often talked over this project with Pencroft, and he found h

strangely bent upon undertaking this voyage, for which determination

himself could give no sufficient reason.

"Now," said the engineer one day to him, "I must observe, my friend,

after having said so much, in praise of Lincoln Island, after having spoken

so often of the sorrow you would feel if you were obliged to forsake it,

you are the first to wish to leave it."

"Only to leave it for a few days," replied Pencroft, "only for a few

days, captain. Time to go and come back, and see what that islet is like!"

"But it is not nearly as good as Lincoln Island."

"I know that beforehand."

"Then why venture there?"

"To know what is going on in Tabor Island."

"But nothing is going on there; nothing could happen there."

"Who knows?"

"And if you are caught in a hurricane?"

"There is no fear of that in the fine season," replied Pencroft. "But,

captain, as we must provide against everything, I shall ask your per mission

to take Herbert only with me on this voyage."

"Pencroft," replied the engineer, placing his hand on the sailor's shoulder, "if any misfortune happens to you, or to this lad, whom ch ance

has made our child, do you think we could ever cease to blame oursel ves?"

"Captain Harding," replied Pencroft, with unshaken confidence, "we s hall

not cause you that sorrow. Besides, we will speak further of this vo yage,

when the time comes to make it. And I fancy, when you have seen our tight-

rigged little craft, when you have observed how she behaves at sea, when we

sail round our island, for we will do so together--I fancy, I say, t hat you

will no longer hesitate to let me go. I don't conceal from you that your

boat will be a masterpiece."

"Say 'our' boat, at least, Pencroft," replied the engineer, disarmed for

the moment. The conversation ended thus, to be resumed later on, wit hout

convincing either the sailor or the engineer.

The first snow fell towards the end of the month of June. The corral had

previously been largely supplied with stores, so that daily visits to it

were not requisite; but it was decided that more than a week should never

be allowed to pass without someone going to it.

Traps were again set, and the machines manufactured by Harding were tried. The bent whalebones, imprisoned in a case of ice, and covered with a

thick outer layer of fat, were placed on the border of the forest at a spot

where animals usually passed on their way to the lake.

To the engineer's great satisfaction, this invention, copied from the

Aleutian fishermen, succeeded perfectly. A dozen foxes, a few wild b oars,

and even a jaguar, were taken in this way, the animals being found dead,

their stomachs pierced by the unbent bones.

An incident must here be related, not only as interesting in itself, but

because it was the first attempt made by the colonists to communicat e with

the rest of mankind.

Gideon Spilett had already several times pondered whether to throw i nto

the sea a letter enclosed in a bottle, which currents might perhaps carry

to an inhabited coast, or to confide it to pigeons.

But how could it be seriously hoped that either pigeons or bottles could

cross the distance of twelve hundred miles which separated the islan d from

any inhabited land? It would have been pure folly.

But on the 30th of June the capture was effected, not without difficulty,

of an albatross, which a shot from Herbert's gun had slightly wounde d in

the foot. It was a magnificent bird, measuring ten feet from wing to wing,

and which could traverse seas as wide as the Pacific.

Herbert would have liked to keep this superb bird, as its wound would

soon heal, and he thought he could tame it; but Spilett explained to him

that they should not neglect this opportunity of attempting to commu nicate

by this messenger with the lands of the Pacific; for if the albatros s had

come from some inhabited region, there was no doubt but that it would

return there so soon as it was set free.

Perhaps in his heart Gideon Spilett, in whom the journalist sometimes

came to the surface, was not sorry to have the opportunity of sending forth

to take its chance an exciting article relating the adventures of the

settlers in Lincoln Island. What a success for the authorized report er of

the New York Herald, and for the number which should contain the article,

if it should ever reach the address of its editor, the Honorable Jam es

Bennett!

Gideon Spilett then wrote out a concise account, which was placed in a strong waterproof bag, with an earnest request to whoever might find

it to

forward it to the office of the New York Herald. This little bag was

fastened to the neck of the albatross, and not to its foot, for thes e birds

are in the habit of resting on the surface of the sea; then liberty was

given to this swift courier of the air, and it was not without some emotion

that the colonists watched it disappear in the misty west.

"Where is he going to?" asked Pencroft.

"Towards New Zealand," replied Herbert.

"A good voyage to you," shouted the sailor, who himself did not expe

any great result from this mode of correspondence.

With the winter, work had been resumed in the interior of Granite House,

mending clothes and different occupations, among others making the sails

for their vessel, which were cut from the inexhaustible balloon-case

During the month of July the cold was intense, but there was no lack of

either wood or coal. Cyrus Harding had established a second fireplac e in

the dining-room, and there the long winter evenings were spent. Talk ing

while they worked, reading when the hands remained idle, the time passed

with profit to all.

It was real enjoyment to the settlers when in their room, well light

with candles, well warmed with coal, after a good dinner, elderberry coffee

smoking in the cups, the pipes giving forth an odoriferous smoke, they

could hear the storm howling without. Their comfort would have been complete, if complete comfort could ever exist for those who are far from

their fellow-creatures, and without any means of communication with them.

They often talked of their country, of the friends whom they had left, of

the grandeur of the American Republic, whose influence could not but

increase; and Cyrus Harding, who had been much mixed up with the aff airs of

the Union, greatly interested his auditors by his recitals, his view s, and

his prognostics.

It chanced one day that Spilett was led to say--

"But now, my dear Cyrus, all this industrial and commercial movement to

which you predict a continual advance, does it not run the danger of being

sooner or later completely stopped?"

"Stopped! And by what?"

"By the want of coal, which may justly be called the most precious of minerals."

"Yes, the most precious indeed," replied the engineer; "and it would seem

that nature wished to prove that it was so by making the diamond, which is

simply pure carbon crystallized."

"You don't mean to say, captain," interrupted Pencroft, "that we bur n

diamonds in our stoves in the shape of coal?"

"No, my friend," replied Harding.

"However," resumed Gideon Spilett, "you do not deny that some day the

coal will be entirely consumed?"

"Oh! the veins of coal are still considerable, and the hundred thous and

miners who annually extract from them a hundred millions of hundredw eights

have not nearly exhausted them."

"With the increasing consumption of coal," replied Gideon Spilett, " it

can be foreseen that the hundred thousand workmen will soon become t

hundred thousand, and that the rate of extraction will be doubled."

"Doubtless; but after the European mines, which will be soon worked more

thoroughly with new machines, the American and Australian mines will for a

long time yet provide for the consumption in trade."

"For how long a time?" asked the reporter.

"For at least two hundred and fifty or three hundred years."

"That is reassuring for us, but a bad look-out for our great-grandchildren!" observed Pencroft.

"They will discover something else," said Herbert.

"It is to be hoped so," answered Spilett, "for without coal there would be

no machinery, and without machinery there would be no railways, no steamers, no manufactories, nothing of that which is indispensable to

modern civilization!"

"But what will they find?" asked Pencroft. "Can you guess, captain?"

"Nearly, my friend."

"And what will they burn instead of coal?"

"Water, " replied Harding.

"Water!" cried Pencroft, "water as fuel for steamers and engines! water

to heat water!"

"Yes, but water decomposed into its primitive elements," replied Cyr

Harding, "and decomposed doubtless, by electricity, which will then have

become a powerful and manageable force, for all great discoveries, by some

inexplicable laws, appear to agree and become complete at the same time.

Yes, my friends, I believe that water will one day be employed as fu el,

that hydrogen and oxygen which constitute it, used singly or togethe ${\tt r}$, will

furnish an inexhaustible source of heat and light, of an intensity of which

coal is not capable. Some day the coalrooms of steamers and the tend ers of

locomotives will, instead of coal, be stored with these two condense d

gases, which will burn in the furnaces with enormous calorific power . There

is, therefore, nothing to fear. As long as the earth is inhabited it will

supply the wants of its inhabitants, and there will be no want of either

light or heat as long as the productions of the vegetable, mineral or

animal kingdoms do not fail us. I believe, then, that when the deposits of

coal are exhausted we shall heat and warm ourselves with water. Wate ${\tt r}$ will

be the coal of the future."

[&]quot;I should like to see that," observed the sailor.

"You were born too soon, Pencroft," returned Neb, who only took part in

the discussion by these words.

However, it was not Neb's speech which interrupted the conversation, but

Top's barking, which broke out again with that strange intonation which had

before perplexed the engineer. At the same time Top began to run round the

mouth of the well, which opened at the extremity of the interior pas sage.

"What can Top be barking in that way for?" asked Pencroft.

"And Jup be growling like that?" added Herbert.

In fact the orang, joining the dog, gave unequivocal signs of agitation,

and, singular to say, the two animals appeared more uneasy than angr $\boldsymbol{y}_{\boldsymbol{\cdot}}$

"It is evident," said Gideon Spilett, "that this well is in direct communication with the sea, and that some marine animal comes from time to

time to breathe at the bottom."

"That's evident," replied the sailor, "and there can be no other explanation to give. Quiet there, Top!" added Pencroft, turning to the dog,

"and you, Jup, be off to your room!"

The ape and the dog were silent. Jup went off to bed, but Top remain ed in

the room, and continued to utter low growls at intervals during the rest of

the evening. There was no further talk on the subject, but the incident,

however, clouded the brow of the engineer.

During the remainder of the month of July there was alternate rain a nd

frost. The temperature was not so low as during the preceding winter , and

its maximum did not exceed eight degrees Fahrenheit. But although th is

winter was less cold, it was more troubled by storms and squalls; the sea

besides often endangered the safety of the Chimneys. At times it alm ost

seemed as if an under-current raised these monstrous billows which thundered against the wall of Granite House.

When the settlers, leaning from their windows, gazed on the huge wat ery

masses breaking beneath their eyes, they could not but admire the

magnificent spectacle of the ocean in its impotent fury. The waves rebounded in dazzling foam, the beach entirely disapppearing under the

raging flood, and the cliff appearing to emerge from the sea itself, the

spray rising to a height of more than a hundred feet.

During these storms it was difficult and even dangerous to venture o ut,

owing to the frequently falling trees; however, the colonists never allowed

a week to pass without having paid a visit to the corral. Happily, this

enclosure, sheltered by the southeastern spur of Mount Franklin, did not

greatly suffer from the violence of the hurricanes, which spared its trees,

sheds, and palisades; but the poultry-yard on Prospect Heights, bein

directly exposed to the gusts of wind from the east, suffered considerable

damage. The pigeon-house was twice unroofed and the paling blown dow ${\tt n.}$ All

this required to be remade more solidly than before, for, as may be clearly

seen, Lincoln Island was situated in one of the most dangerous parts of the

Pacific. It really appeared as if it formed the central point of vas t

cyclones, which beat it perpetually as the whip does the top, only h ere it

was the top which was motionless and the whip which moved. During the first

week of the month of August the weather became more moderate, and the

atmosphere recovered the calm which it appeared to have lost forever . With

the calm the cold again became intense, and the thermometer fell to eight

degrees Fahrenheit, below zero.

On the 3rd of August an excursion which had been talked of for sever al

days was made into the southeastern part of the island, towards Tado rn

Marsh. The hunters were tempted by the aquatic game which took up their

winter quarters there. Wild duck, snipe, teal and grebe abounded the re. and

it was agreed that a day should be devoted to an expedition against these birds.

Not only Gideon Spilett and Herbert, but Pencroft and Neb also took part

in this excursion. Cyrus Harding alone, alleging some work as an exc

use,

did not join them, but remained at Granite House.

The hunters proceeded in the direction of Port Balloon, in order to reach

the marsh, after having promised to be back by the evening. Top and Jup

accompanied them. As soon as they had passed over the Mercy Bridge, the

engineer raised it and returned, intending to put into execution a project

for the performance of which he wished to be alone.

Now this project was to minutely explore the interior well, the mout h of

which was on a level with the passage of Granite House, and which communicated with the sea, since it formerly supplied a way to the waters

of the lake.

Why did Top so often run round this opening? Why did he utter such strange barks when a sort of uneasiness seemed to draw him towards this

well? Why did Jup join Top in a sort of common anxiety? Had this wel

branches besides the communication with the sea? Did it spread towar ds

other parts of the island? This is what Cyrus Harding wished to know . He

had resolved, therefore, to attempt the exploration of the well during the

absence of his companions, and an opportunity for doing so had now presented itself.

It was easy to descend to the bottom of the well by employing the rope

ladder which had not been used since the establishment of the lift.

engineer drew the ladder to the hole, the diameter of which measured nearly

six feet, and allowed it to unroll itself after having securely fast ened

its upper extremity. Then, having lighted a lantern, taken a revolve \mathbf{r} , and

placed a cutlass in his belt, he began the descent.

The sides were everywhere entire; but points of rock jutted out here and

there, and by means of these points it would have been quite possible for

an active creature to climb to the mouth of the well.

The engineer remarked this; but although he carefully examined these

points by the light of his lantern, he could find no impression, no fracture which could give any reason to suppose that they had either

recently or at any former time been used as a staircase. Cyrus Hardi ng

descended deeper, throwing the light of his lantern on all sides.

He saw nothing suspicious.

When the engineer had reached the last rounds he came upon the water ,

which was then perfectly calm. Neither at its level nor in any other part

of the well, did any passage open, which could lead to the interior of the

cliff. The wall which Harding struck with the hilt of his cutlass so unded

solid. It was compact granite, through which no living being could force a

way. To arrive at the bottom of the well and then climb up to its mo uth it

was necessary to pass through the channel under the rocky subsoil of the

beach, which placed it in communication with the sea, and this was only

possible for marine animals. As to the question of knowing where this

channel ended, at what point of the shore, and at what depth beneath the

water, it could not be answered.

Then Cyrus Harding, having ended his survey, re-ascended, drew up the

ladder, covered the mouth of the well, and returned thoughtfully to the

diningroom, saying to himself, --

"I have seen nothing, and yet there is something there!"

Chapter 12

In the evening the hunters returned, having enjoyed good sport, and being

literally loaded with game; indeed, they had as much as four men could

possibly carry. Top wore a necklace of teal and Jup wreaths of snipe round

his body.

"Here, master," cried Neb; "here's something to employ our time! Preserved and made into pies we shall have a welcome store! But I mu st have

some one to help me. I count on you, Pencroft."

"No, Neb," replied the sailor; "I have the rigging of the vessel to finish and to look after, and you will have to do without me."

"And you, Mr. Herbert?"

"I must go to the corral to-morrow, Neb," replied the lad.

"It will be you then, Mr. Spilett, who will help me?"

"To oblige you, Neb, I will," replied the reporter; "but I warn you that

if you disclose your receipts to me, I shall publish them."

"Whenever you like, Mr. Spilett," replied Neb; "whenever you like."

And so the next day Gideon Spilett became Neb's assistant and was installed in his culinary laboratory. The engineer had previously made

known to him the result of the exploration which he had made the day

before, and on this point the reporter shared Harding's opinion, tha

although he had found nothing, a secret still remained to be discove red!

The frost continued for another week, and the settlers did not leave

Granite House unless to look after the poultry-yard. The dwelling was

filled with appetizing odors, which were emitted from the learned manipulation of Neb and the reporter. But all the results of the chase were

not made into preserved provisions; and as the game kept perfectly in the

intense cold, wild duck and other fowl were eaten fresh, and declare d

superior to all other aquatic birds in the known world.

During this week, Pencroft, aided by Herbert, who handled the sailma ker's

needle with much skill, worked with such energy that the sails of the

vessel were finished. There was no want of cordage. Thanks to the rigging

which had been discovered with the case of the balloon, the ropes an d

cables from the net were all of good quality, and the sailor turned them

all to account. To the sails were attached strong bolt ropes, and there

still remained enough from which to make the halyards, shrouds, and sheets,

etc. The blocks were manufactured by Cyrus Harding under Pencroft's directions by means of the turning lathe. It therefore happened that the

rigging was entirely prepared before the vessel was finished. Pencro ft also

manufactured a flag, that flag so dear to every true American, containing

the stars and stripes of their glorious Union. The colors for it wer $\ensuremath{\mathsf{e}}$

supplied from certain plants used in dyeing, and which were very abundant

in the island; only to the thirty-seven stars, representing the thir ty-

seven States of the Union, which shine on the American flag, the sailor

added a thirty-eighth, the star of "the State of Lincoln," for he considered his island as already united to the great republic. "And, " said

he, "it is so already in heart, if not in deed!"

In the meantime, the flag was hoisted at the central window of Grani te

House, and the settlers saluted it with three cheers.

The cold season was now almost at an end, and it appeared as if this

second winter was to pass without any unusual occurrence, when on the night

of the 11th of August, the plateau of Prospect Heights was menaced \mathbf{w} ith

complete destruction.

After a busy day the colonists were sleeping soundly, when towards four

o'clock in the morning they were suddenly awakened by Top's barking.

The dog was not this time barking near the mouth of the well, but at the

threshold of the door, at which he was scratching as if he wished to burst

it open. Jup was also uttering piercing cries.

"Hello, Top!" cried Neb, who was the first awake. But the dog continued

to bark more furiously than ever.

"What's the matter now?" asked Harding.

And all dressing in haste rushed to the windows, which they opened.

Beneath their eyes was spread a sheet of snow which looked gray in the

dim light. The settlers could see nothing, but they heard a singular

yelping noise away in the darkness. It was evident that the beach ha d been

invaded by a number of animals which could not be seen.

"What are they?" cried Pencroft.

"Wolves, jaguars, or apes?" replied Neb.

"They have nearly reached the plateau," said the reporter.

"And our poultry-yard," exclaimed Herbert, "and our garden!"

"Where can they have crossed?" asked Pencroft.

"They must have crossed the bridge on the shore," replied the engine er,

"which one of us must have forgotten to close."

"True," said Spilett, "I remember having left it open."

"A fine job you have made of it, Mr. Spilett," cried the sailor.

"What is done cannot be undone," replied Cyrus Harding. "We must con

what it will now be best to do."

Such were the questions and answers which were rapidly exchanged bet ween

Harding and his companions. It was certain that the bridge had been crossed, that the shore had been invaded by animals, and that whatever they

might be they could by ascending the left bank of the Mercy reach Prospect

Heights. They must therefore be advanced against quickly and fought with if necessary.

"But what are these beasts?" was asked a second time, as the yelping

were again heard more loudly than before. These yelps made Herbert s tart,

and he remembered having heard them before during his first visit to the

sources of the Red Creek.

"They are colpeo foxes!" he exclaimed.

"Forward!" shouted the sailor.

And all arming themselves with hatchets, carbines, and revolvers, th rew

themselves into the lift and soon set foot on the shore.

Colpeos are dangerous animals when in great numbers and irritated by

hunger, nevertheless the colonists did not hesitate to throw themsel ves

into the midst of the troop, and their first shots vividly lighting up the

darkness made their assailants draw back.

The chief thing was to hinder these plunderers from reaching the plateau,

for the garden and the poultry-yard would then have been at their me

rcy,

and immense, perhaps irreparable mischief, would inevitably be the result,

especially with regard to the corn-field. But as the invasion of the

plateau could only be made by the left bank of the Mercy, it was sufficient

to oppose the colpeos on the narrow bank between the river and the c liff of granite.

This was plain to all, and, by Cyrus Harding's orders, they reached the

spot indicated by him, while the colpeos rushed fiercely through the gloom.

Harding, Gideon Spilett, Herbert, Pencroft and Neb posted themselves in

impregnable line. Top, his formidable jaws open, preceded the colonists,

and he was followed by Jup, armed with knotty cudgel, which he brand ished

like a club.

The night was extremely dark, it was only by the flashes from the revolvers as each person fired that they could see their assailants, who

were at least a hundred in number, and whose eyes were glowing like hot coals.

"They must not pass!" shouted Pencroft.

"They shall not pass!" returned the engineer.

But if they did not pass it was not for want of having attempted it.

Those in the rear pushed on the foremost assailants, and it was an incessant struggle with revolvers and hatchets. Several colpeos already lay

dead on the ground, but their number did not appear to diminish, and

might have been supposed that reinforcements were continually arriving over

the bridge.

The colonists were soon obliged to fight at close quarters, not with out

receiving some wounds, though happily very slight ones. Herbert had, with a

shot from his revolver, rescued Neb, on whose back a colpeo had sprung like

a tiger cat. Top fought with actual fury, flying at the throats of the

foxes and strangling them instantaneously. Jup wielded his weapon valiantly, and it was in vain that they endeavored to keep him in the rear.

Endowed doubtless with sight which enabled him to pierce the obscurity, he

was always in the thick of the fight uttering from time to time--a s harp

hissing sound, which was with him the sign of great rejoicing.

At one moment he advanced so far, that by the light from a revolver he

was seen surrounded by five or six large colpeos, with whom he was coping

with great coolness.

However, the struggle was ended at last, and victory was on the side of

the settlers, but not until they had fought for two long hours! The first

signs of the approach of day doubtless determined the retreat of the ir

assailants, who scampered away towards the North, passing over the b ridge,

which Neb ran immediately to raise. When day had sufficiently lighted up

the field of battle, the settlers counted as many as fifty dead bodi es

scattered about on the shore.

"And Jup!" cried Pencroft; "where is Jup?" Jup had disappeared. His friend Neb called him, and for the first time Jup did not reply to h is

friend's call.

Everyone set out in search of Jup, trembling lest he should be found

among the slain; they cleared the place of the bodies which stained the

snow with their blood. Jup was found in the midst of a heap of colpe os

whose broken jaws and crushed bodies showed that they had to do with the

terrible club of the intrepid animal.

Poor Jup still held in his hand the stump of his broken cudgel, but deprived of his weapon he had been overpowered by numbers, and his c hest

was covered with severe wounds.

"He is living," cried Neb, who was bending over him.

"And we will save him," replied the sailor. "We will nurse him as if he

was one of ourselves."

It appeared as if Jup understood, for he leaned his head on Pencroft's

shoulder as if to thank him. The sailor was wounded himself, but his wound

was insignificant, as were those of his companions; for thanks to their

firearms they had been almost always able to keep their assailants a t a

distance. it was therefore only the orang whose condition was seriou s.

Jup, carried by Neb and Pencroft, was placed in the lift, and only a slight moan now and then escaped his lips. He was gently drawn up to

Granite House. There he was laid on a mattress taken from one of the beds,

and his wounds were bathed with the greatest care. It did not appear that

any vital part had been reached, but Jup was very weak from loss of blood,

and a high fever soon set in after his wounds had been dressed. He was laid

down, strict diet was imposed, "just like a real person," as Neb sai d, and

they made him swallow several cups of a cooling drink, for which the

ingredients were supplied from the vegetable medicine chest of Grani te

House. Jup was at first restless, but his breathing gradually became more

regular, and he was left sleeping quietly. From time to time Top, walking

on tip-toe, as one might say, came to visit his friend, and seemed to

approve of all the care that had been taken of him. One of Jup's han ds hung

over the side of his bed, and Top licked it with a sympathizing air.

They employed the day in interring the dead, who were dragged to the forest of the Far West, and there buried deep.

This attack, which might have had such serious consequences, was a lesson

to the settlers, who from this time never went to bed until one of their

number had made sure that all the bridges were raised, and that no invasion $% \left(1\right) =\left(1\right) +\left(1\right)$

was possible.

However, Jup, after having given them serious anxiety for several days,

began to recover. His constitution brought him through, the fever gradually

subsided, and Gideon Spilett, who was a bit of a doctor, pronounced him

quite out of danger. On the 16th of August, Jup began to eat. Neb ma de him

nice little sweet dishes, which the invalid devoured with great relish, for

if he had a pet failing it was that of being somewhat of a gourmend, and

Neb had never done anything to cure him of this fault.

"What would you have?" said he to Gideon Spilett, who sometimes expostulated with him for spoiling the ape. "Poor Jup has no other p leasure

than that of the palate, and I am only too glad to be able to reward his

services in this way!"

Ten days after taking to his bed, on the 21st of August, Master Jup arose. His wounds were healed, and it was evident that he would not be long

in regaining his usual strength and agility. Like all convalescents, he was

tremendously hungry, and the reporter allowed him to eat as much as he

liked, for he trusted to that instinct, which is too often wanting i $\ensuremath{\mathbf{n}}$

reasoning beings, to keep the orang from any excess. Neb was delight ed to

see his pupil's appetite returning.

"Eat away, my Jup," said he, "and don't spare anything; you have she d your blood for us, and it is the least I can do to make you strong a

gain!"
On the 25th of August Neb's voice was heard calling to his companion

"Captain, Mr. Spilett, Mr. Herbert, Pencroft, come! come!"

The colonists, who were together in the dining-room, rose at Neb's call,

who was then in Jup's room.

"What's the matter?" asked the reporter.

"Look," replied Neb, with a shout of laughter. And what did they see ?

Master Jup smoking calmly and seriously, sitting crosslegged like a Turk at

the entrance to Granite House!

"My pipe," cried Pencroft. "He has taken my pipe! Hello, my honest J up, I

make you a present of it! Smoke away, old boy, smoke away!"

And Jup gravely puffed out clouds of smoke which seemed to give him great

satisfaction. Harding did not appear to be much astonished at this incident, and he cited several examples of tame apes, to whom the us

e of tobacco had become quite familiar.

But from this day Master Jup had a pipe of his own, the sailor's expipe,

which was hung in his room near his store of tobacco. He filled it h imself,

lighted it with a glowing coal, and appeared to be the happiest of quadrumana. It may readily be understood that this similarity of tas tes of

Jup and Pencroft served to tighten the bonds of friendship which already

existed between the honest ape and the worthy sailor.

"Perhaps he is really a man," said Pencroft sometimes to Neb. "Shoul d you

be surprised to hear him beginning to speak to us some day?"

"My word, no," replied Neb. "What astonishes me is that he hasn't sp oken

to us before, for now he wants nothing but speech!"

"It would amuse me all the same," resumed the sailor, "if some fine day

he said to me, "Suppose we change pipes, Pencroft."

"Yes," replied Neb, "what a pity he was born dumb!"

With the month of September the winter ended, and the works were aga in

eagerly commenced. The building of the vessel advanced rapidly, she was

already completely decked over, and all the inside parts of the hull were

firmly united with ribs bent by means of steam, which answered all ${\sf t}$ he

purposes of a mold.

As there was no want of wood, Pencroft proposed to the engineer to give a

double lining to the hull, to insure the strength of the vessel.

Harding, not knowing what the future might have in store for them, approved the sailor's idea of making the craft as strong as possible. The

interior and deck of the vessel was entirely finished towards the 15 th of

September. For calking the seams they made oakum of dry seaweed, which was

hammered in between the planks; then these seams were covered with b oiling

tar, which was obtained in great abundance from the pines in the for est.

The management of the vessel was very simple. She had from the first been

ballasted with heavy blocks of granite walled up, in a bed of lime, twelve

thousand pounds of which they stowed away.

A deck was placed over this ballast, and the interior was divided in to

two cabins; two benches extended along them and served also as locke rs. The

foot of the mast supported the partition which separated the two cab ins,

which were reached by two hatchways let into the deck.

Pencroft had no trouble in finding a tree suitable for the mast. He chose

a straight young fir, with no knots, and which he had only to square at the

step, and round off at the top. The ironwork of the mast, the rudder and

the hull had been roughly but strongly forged at the Chimneys. Lastly,

yards, masts, boom, spars, oars, etc., were all furnished by the fir st week

in October, and it was agreed that a trial trip should be taken roun d the

island, so as to ascertain how the vessel would behave at sea, and how far

they might depend upon her.

During all this time the necessary works had not been neglected. The

corral was enlarged, for the flock of musmons and goats had been inc reased

by a number of young ones, who had to be housed and fed. The colonis ts had

paid visits also to the oyster bed, the warren, the coal and iron mines,

and to the till then unexplored districts of the Far West forest, which

abounded in game. Certain indigenous plants were discovered, and tho se fit

for immediate use contributed to vary the vegetable stores of Granit e

House.

They were a species of ficoide, some similar to those of the Cape, w ith

eatable fleshy leaves, others bearing seeds containing a sort of flour.

On the 10th of October the vessel was launched. Pencroft was radiant with

joy, the operation was perfectly successful; the boat completely rig

having been pushed on rollers to the water's edge, was floated by the

rising tide, amid the cheers of the colonists, particularly of Pencr

oft,

who showed no modesty on this occasion. Besides his importance was to last

beyond the finishing of the vessel, since, after having built her, he was

to command her. The grade of captain was bestowed upon him with the approbation of all. To satisfy Captain Pencroft, it was now necessary to

give a name to the vessel, and, after many propositions had been discussed,

the votes were all in favor of the "Bonadventure." As soon as the "Bonadventure" had been lifted by the rising tide, it was seen that she lay

evenly in the water, and would be easily navigated. However, the trial trip

was to be made that very day, by an excursion off the coast. The wea ther

was fine, the breeze fresh, and the sea smooth, especially towards the

south coast, for the wind was blowing from the northwest.

"All hands on board," shouted Pencroft; but breakfast was first necessary, and it was thought best to take provisions on board, in the

event of their excursion being prolonged until the evening.

Cyrus Harding was equally anxious to try the vessel, the model of which

had originated with him, although on the sailor's advice he had alte red

some parts of it, but he did not share Pencroft's confidence in her, and as

the latter had not again spoken of the voyage to Tabor Island, Harding

hoped he had given it up. He would have indeed great reluctance in letting

two or three of his companions venture so far in so small a boat, which was

not of more than fifteen tons' burden.

At half-past ten everybody was on board, even Top and Jup, and Herbe rt

weighed the anchor, which was fast in the sand near the mouth of the Mercy.

The sail was hoisted, the Lincolnian flag floated from the masthead, and

the "Bonadventure," steered by Pencroft, stood out to sea.

The wind blowing out of Union Bay she ran before it, and thus showed her

owners, much to their satisfaction, that she possessed a remarkably fast

pair of heels, according to Pencroft's mode of speaking. After havin

doubled Flotsam Point and Claw Cape, the captain kept her close haul ed, so

as to sail along the southern coast of the island, when it was found she

sailed admirably within five points of the wind. All hands were ench anted,

they had a good vessel, which, in case of need, would be of great se rvice

to them, and with fine weather and a fresh breeze the voyage promise d to be charming.

Pencroft now stood off the shore, three or four miles across from Port

Balloon. The island then appeared in all its extent and under a new aspect,

with the varied panorama of its shore from Claw Cape to Reptile End, the

forests in which dark firs contrasted with the young foliage of other

trees and overlooked the whole, and Mount Franklin whose lofty head was

still whitened with snow.

"How beautiful it is!" cried Herbert.

"Yes, our island is beautiful and good," replied Pencroft. "I love it as

I loved my poor mother. It received us poor and destitute, and now $\ensuremath{\mathbf{w}}$ hat is

wanting to us five fellows who fell on it from the sky?"

"Nothing," replied Neb; "nothing, captain."

And the two brave men gave three tremendous cheers in honor of their island!

During all this time Gideon Spilett, leaning against the mast, sketched the panorama which was developed before his eyes.

Cyrus Harding gazed on it in silence.

"Well, Captain Harding," asked Pencroft, "what do you think of our vessel?"

"She appears to behave well," replied the engineer.

"Good! And do you think now that she could undertake a voyage of som e extent?"

"What voyage, Pencroft?"

"One to Tabor Island, for instance."

"My friend," replied Harding, "I think that in any pressing emergenc

y we

need not hesitate to trust ourselves to the 'Bonadventure' even for a

longer voyage; but you know I should see you set off to Tabor Island with

great uneasiness, since nothing obliges you to go there."

"One likes to know one's neighbors," returned the sailor, who was obstinate in his idea. "Tabor Island is our neighbor, and the only one!

Politeness requires us to go at least to pay a visit."

"By Jove," said Spilett, "our friend Pencroft has become very particular

about the proprieties all at once!"

"I am not particular about anything at all," retorted the sailor, who was

rather vexed by the engineer's opposition, but who did not wish to c ause

him anxiety.

"Consider, Pencroft," resumed Harding, "you cannot go alone to Tabor Island."

"One companion will be enough for me."

"Even so," replied the engineer, "you will risk depriving the colony of

Lincoln Island of two settlers out of five."

"Out of six," answered Pencroft; "you forget Jup."

"Out of seven," added Neb; "Top is quite worth another."

"There is no risk at all in it, captain," replied Pencroft.

"That is possible, Pencroft; but I repeat it is to expose ourselves uselessly."

The obstinate sailor did not reply, and let the conversation drop, ${\bf q}$ uite

determined to resume it again. But he did not suspect that an incide nt

would come to his aid and change into an act of humanity that which was at

first only a doubtful whim.

After standing off the shore the "Bonadventure" again approached it in

the direction of Port Balloon. It was important to ascertain the channels

between the sandbanks and reefs, that buoys might be laid down since this

little creek was to be the harbor.

They were not more than half a mile from the coast, and it was neces sary

to tack to beat against the wind. The "Bonadventure" was then going at a

very moderate rate, as the breeze, partly intercepted by the high land,

scarcely swelled her sails, and the sea, smooth as glass, was only $\ensuremath{\mathbf{r}}$ ippled

now and then by passing gusts.

Herbert had stationed himself in the bows that he might indicate the course to be followed among the channels, when all at once he shoute d,--

"Luff, Pencroft, luff!"

"What's the matter," replied the sailor; "a rock?"

"No--wait," said Herbert; "I don't quite see. Luff again--right--now ."

So saying, Herbert, leaning over the side, plunged his arm into the water, and pulled it out, exclaiming, --

"A bottle!"

He held in his hand a corked bottle which he had just seized a few cables' length from the shore.

Cyrus Harding took the bottle. Without uttering a single word he dre w the cork, and took from it a damp paper, on which were written these wor

ds:--

"Castaway Tabor island: 153deg W. long., 37deg 11' S. lat."

Chapter 13

"A castaway!" exclaimed Pencroft; "left on this Tabor Island not two hundred miles from us! Ah, Captain Harding, you won't now oppose my going."

"No, Pencroft," replied Cyrus Harding; "and you shall set out as soo n as possible."

"To-morrow?"

"To-morrow!"

The engineer still held in his hand the paper which he had taken from the

bottle. He contemplated it for some instants, then resumed,

"From this document, my friends, from the way in which it is worded, we may conclude this: first, that the castaway on Tabor Island is a man possessing a considerable knowledge of navigation, since he gives the latitude and longitude of the island exactly as we ourselves found it, and to a second of approximation; secondly, that he is either English or American, as the document is written in the English language."

"That is perfectly logical," answered Spilett; "and the presence of this castaway explains the arrival of the case on the shores of our islan d.

There must have been a wreck, since there is a castaway. As to the l atter, whoever he may be, it is lucky for him that Pencroft thought of buil ding this boat and of trying her this very day, for a day later and this bottle might have been broken on the rocks."

"Indeed," said Herbert, "it is a fortunate chance that the 'Bonadven ture' passed exactly where the bottle was still floating!"

"Does not this appear strange to you?" asked Harding of Pencroft.

"It appears fortunate, that's all," answered the sailor. "Do you see anything extraordinary in it, captain? The bottle must go somewhere, and why not here as well as anywhere else?"

"Perhaps you are right, Pencroft," replied the engineer; "and yet--"

"But," observed Herbert, "there's nothing to prove that this bottle has been floating long in the sea."

"Nothing," replied Gideon Spilett, "and the document appears even to have been recently written. What do you think about it, Cyrus?"

During this conversation Pencroft had not remained inactive. He had put the vessel about, and the "Bonadventure," all sails set, was running rapidly towards Claw Cape.

Every one was thinking of the castaway on Tabor Island. Should they

be in

time to save him? This was a great event in the life of the colonist s! They

themselves were but castaways, but it was to be feared that another might

not have been so fortunate, and their duty was to go to his succor.

Claw Cape was doubled, and about four o'clock the "Bonadventure" dropped

her anchor at the mouth of the Mercy.

That same evening the arrangements for the new expedition were made. It

appeared best that Pencroft and Herbert, who knew how to work the vessel,

should undertake the voyage alone. By setting out the next day, the 10th of

October, they would arrive on the 13th, for with the present wind it would

not take more than forty-eight hours to make this passage of a hundr ed and

fifty miles. One day in the island, three or four to return, they might

hope therefore that on the 17th they would again reach Lincoln Island. The

weather was fine, the barometer was rising, the wind appeared settle d,

everything then was in favor of these brave men whom an act of human ity was

taking far from their island.

Thus it had been agreed that Cyrus Harding, Neb, and Gideon Spilett should

remain at Granite House, but an objection was raised, and Spilett, w ho had

not forgotten his business as reporter to the New York Herald, havin

declared that he would go by swimming rather than lose such an opportunity,

he was admitted to take a part in the voyage.

The evening was occupied in transporting on board the "Bonadventure,

articles of bedding, utensils, arms, ammunition, a compass, provisions for

a week; this being rapidly done, the colonists ascended to Granite H ouse.

The next day, at five o'clock in the morning, the farewells were sai d.

not without some emotion on both sides, and Pencroft setting sail made

towards Claw Cape, which had to be doubled in order to proceed to the

southwest.

The "Bonadventure" was already a quarter of a mile from the coast when

the passengers perceived on the heights of Granite House two men waving

their farewells; they were Cyrus Harding and Neb.

"Our friends," exclaimed Spilett, "this is our first separation in fifteen months."

Pencroft, the reporter and Herbert waved in return, and Granite Hous e soon disappeared behind the high rocks of the Cape.

During the first part of the day the "Bonadventure" was still in sight of

the southern coast of Lincoln Island, which soon appeared just like a green

basket, with Mount Franklin rising from the center. The heights, dim inished

by distance, did not present an appearance likely to tempt vessels to touch

there. Reptile End was passed in about an hour, though at a distance of

about ten miles.

At this distance it was no longer possible to distinguish anything of the

Western Coast, which stretched away to the ridges of Mount Franklin, and

three hours after the last of Lincoln Island sank below the horizon.

The "Bonadventure" behaved capitally. Bounding over the waves she proceeded rapidly on her course. Pencroft had hoisted the foresail, and

steering by the compass followed a rectilinear direction. From time to time

Herbert relieved him at the helm, and the lad's hand was so firm that the

sailor had not a point to find fault with.

Gideon Spilett chatted sometimes with one, sometimes with the other, if

wanted he lent a hand with the ropes, and Captain Pencroft was perfectly

satisfied with his crew.

In the evening the crescent moon, which would not be in its first quarter

until the 16th, appeared in the twilight and soon set again. The nig ht was

dark but starry, and the next day again promised to be fine.

Pencroft prudently lowered the foresail, not wishing to be caught by a sudden gust while carrying too much canvas; it was perhaps an unnece

ssary

precaution on such a calm night, but Pencroft was a prudent sailor a nd

cannot be blamed for it.

The reporter slept part of the night. Pencroft and Herbert took turn s for

a spell of two hours each at the helm. The sailor trusted Herbert as he

would himself, and his confidence was justified by the coolness and judgment of the lad. Pencroft gave him his directions as a commander to his

steersman, and Herbert never allowed the "Bonadventure" to swerve even a

point. The night passed quickly, as did the day of the 12th of Octob er. A

south-easterly direction was strictly maintained. Unless the "Bonadv enture"

fell in with some unknown current she would come exactly within sigh t of

Tabor Island.

As to the sea over which the vessel was then sailing, it was absolutely

deserted. Now and then a great albatross or frigate bird passed with in

gunshot, and Gideon Spilett wondered if it was to one of them that he had

confided his last letter addressed to the New York Herald. These bir ds were

the only beings that appeared to frequent this part of the ocean bet ween

Tabor and Lincoln Islands.

"And yet," observed Herbert, "this is the time that whalers usually proceed towards the southern part of the Pacific. Indeed I do not think

there could be a more deserted sea than this."

"It is not quite so deserted as all that," replied Pencroft.

"What do you mean?" asked the reporter.

"We are on it. Do you take our vessel for a wreck and us for porpois es?"

And Pencroft laughed at his joke.

By the evening, according to calculation, it was thought that the "Bonadventure" had accomplished a distance of a hundred and twenty miles

since her departure from Lincoln Island, that is to say in thirty-si x

hours, which would give her a speed of between three and four knots an

hour. The breeze was very slight and might soon drop altogether. How

ever,

it was hoped that the next morning by break of day, if the calculation had

been correct and the course true, they would sight Tabor Island.

Neither Gideon Spilett, Herbert, nor Pencroft slept that night. In the

expectation of the next day they could not but feel some emotion. There was

so much uncertainty in their enterprise! Were they near Tabor Island? Was

the island still inhabited by the castaway to whose succor they had come?

Who was this man? Would not his presence disturb the little colony till

then so united? Besides, would he be content to exchange his prison for

another? All these questions, which would no doubt be answered the n ext

day, kept them in suspense, and at the dawn of day they all fixed their

gaze on the western horizon.

"Land!" shouted Pencroft at about six o'clock in the morning.

And it was impossible that Pencroft should be mistaken, it was evide nt

that land was there. Imagine the joy of the little crew of the "Bonadventure." In a few hours they would land on the beach of the i sland!

The low coast of Tabor Island, scarcely emerging from the sea, was n ot

more than fifteen miles distant.

The head of the "Bonadventure," which was a little to the south of the

island, was set directly towards it, and as the sun mounted in the e ast,

its rays fell upon one or two headlands.

"This is a much less important isle than Lincoln Island," observed Herbert, "and is probably due like ours to some submarine convulsion ."

At eleven o'clock the "Bonadventure" was not more than two miles off , and

Pencroft, while looking for a suitable place at which to land, proce eded

very cautiously through the unknown waters. The whole of the island could

now be surveyed, and on it could be seen groups of gum and other lar ge

trees, of the same species as those growing on Lincoln Island. But the

astonishing thing was that no smoke arose to show that the island wa

s inhabited, no signal whatever appeared on the shore!

And yet the document was clear enough; there was a castaway, and this castaway should have been on the watch.

In the meanwhile the "Bonadventure" entered the winding channels among

the reefs, and Pencroft observed every turn with extreme care. He had put

Herbert at the helm, posting himself in the bows, inspecting the wat er,

while he held the halliard in his hand, ready to lower the sail at a

moment's notice. Gideon Spilett with his glass eagerly scanned the s hore,

though without perceiving anything.

However, at about twelve o'clock the keel of the "Bonadventure" grat ed on

the bottom. The anchor was let go, the sails furled, and the crew of the

little vessel landed.

And there was no reason to doubt that this was Tabor Island, since according to the most recent charts there was no island in this part of the

Pacific between New Zealand and the American Coast.

The vessel was securely moored, so that there should be no danger of her

being carried away by the receding tide; then Pencroft and his companions,

well armed, ascended the shore, so as to gain an elevation of about two

hundred and fifty or three hundred feet which rose at a distance of half a $\mbox{\ensuremath{\text{mile}}}.$

"From the summit of that hill," said Spilett, "we can no doubt obtain a

complete view of the island, which will greatly facilitate our searc h."

"So as to do here," replied Herbert, "that which Captain Harding did the

very first thing on Lincoln Island, by climbing Mount Franklin."

"Exactly so," answered the reporter, "and it is the best plan."

While thus talking the explorers had advanced along a clearing which

terminated at the foot of the hill. Flocks of rock-pigeons and seaswallows, similar to those of Lincoln Island, fluttered around them. Under

the woods which skirted the glade on the left they could hear the bu shes

rustling and see the grass waving, which indicated the presence of timid

animals, but still nothing to show that the island was inhabited.

Arrived at the foot of the hill, Pencroft, Spilett, and Herbert climbed

it in a few minutes, and gazed anxiously round the horizon.

They were on an islet, which did not measure more than six miles in circumference, its shape not much bordered by capes or promontories, bays

or creeks, being a lengthened oval. All around, the lonely sea extended to

the limits of the horizon. No land nor even a sail was in sight.

This woody islet did not offer the varied aspects of Lincoln Island, arid

and wild in one part, but fertile and rich in the other. On the cont rary

this was a uniform mass of verdure, out of which rose two or three h ills of

no great height. Obliquely to the oval of the island ran a stream th rough a

wide meadow falling into the sea on the west by a narrow mouth.

"The domain is limited," said Herbert.

"Yes," rejoined Pencroft: "It would have been too small for us."

"And moreover," said the reporter, "it appears to be uninhabited."

"Indeed," answered Herbert, "nothing here betrays the presence of man."

"Let us go down," said Pencroft, "and search."

The sailor and his two companions returned to the shore, to the place where they had left the "Bonadventure."

They had decided to make the tour of the island on foot, before expl oring

the interior; so that not a spot should escape their investigations.

beach was easy to follow, and only in some places was their way barr ed by

large rocks, which, however, they easily passed round. The explorers

proceeded towards the south, disturbing numerous flocks of sea-birds and

herds of seals, which threw themselves into the sea as soon as they saw the

strangers at a distance.

"Those beasts yonder," observed the reporter, "do not see men for the $\ensuremath{\mathsf{e}}$

first time. They fear them, therefore they must know them."

An hour after their departure they arrived on the southern point of the

islet, terminated by a sharp cape, and proceeded towards the north a long

the western coast, equally formed by sand and rocks, the background bordered with thick woods.

There was not a trace of a habitation in any part, not the print of a

human foot on the shore of the island, which after four hours' walking had

been gone completely round.

It was to say the least very extraordinary, and they were compelled to

believe that Tabor Island was not or was no longer inhabited. Perhaps,

after all the document was already several months or several years o ld, and

it was possible in this case, either that the castaway had been enabled to

return to his country, or that he had died of misery.

Pencroft, Spilett, and Herbert, forming more or less probable conjectures,

dined rapidly on board the "Bonadventure" so as to be able to continue

their excursion until nightfall. This was done at five o'clock in the

evening, at which hour they entered the wood.

Numerous animals fled at their approach, being principally, one might

say, only goats and pigs, which were obviously European species.

Doubtless some whaler had landed them on the island, where they had rapidly increased. Herbert resolved to catch one or two living, and take

them back to Lincoln Island.

It was no longer doubtful that men at some period or other had visit ed

this islet, and this became still more evident when paths appeared trodden

through the forest, felled trees, and everywhere traces of the hand of man;

but the trees were becoming rotten, and had been felled many years a go; the

marks of the axe were velveted with moss, and the grass grew long an d thick

on the paths, so that it was difficult to find them.

"But," observed Gideon Spilett, "this not only proves that men have landed on the island, but also that they lived on it for some time. Now,

who were these men? How many of them remain?"

"The document," said Herbert, "only spoke of one castaway."

"Well, if he is still on the island," replied Pencroft, "it is impossible

but that we shall find him."

The exploration was continued. The sailor and his companions naturally

followed the route which cut diagonally across the island, and they were

thus obliged to follow the stream which flowed towards the sea.

If the animals of European origin, if works due to a human hand, sho wed

incontestably that men had already visited the island, several specimens of

the vegetable kingdom did not prove it less. In some places, in the midst

of clearings, it was evident that the soil had been planted with culinary

plants, at probably the same distant period.

What, then, was Herbert's joy, when he recognized potatoes, chicory,

sorrel, carrots, cabbages, and turnips, of which it was sufficient to

collect the seed to enrich the soil of Lincoln Island.

"Capital, jolly!" exclaimed Pencroft. "That will suit Neb as well as us.

Even if we do not find the castaway, at least our voyage will not ha ve been

useless, and God will have rewarded us."

"Doubtless," replied Gideon Spilett, "but to see the state in which we

find these plantations, it is to be feared that the island has not been

inhabited for some time."

"Indeed," answered Herbert, "an inhabitant, whoever he was, could no t have

neglected such an important culture!"

"Yes," said Pencroft, "the castaway has gone."

"We must suppose so."

"It must then be admitted that the document has already a distant da te?"

"Evidently."

"And that the bottle only arrived at Lincoln Island after having flo ated in the sea a long time."

"Why not?" returned Pencroft. "But night is coming on," added he, "a nd I think that it will be best to give up the search for the present."

"Let us go on board, and to-morrow we will begin again," said the reporter.

This was the wisest course, and it was about to be followed when Her bert, pointing to a confused mass among the trees, exclaimed,--

"A hut!"

All three immediately ran towards the dwelling. In the twilight it was just possible to see that it was built of planks and covered with a thick tarpaulin.

The half-closed door was pushed open by Pencroft, who entered with a rapid step.

The hut was empty!

Chapter 14

Pencroft, Herbert, and Gideon Spilett remained silent in the midst of the darkness.

Pencroft shouted loudly.

No reply was made.

The sailor then struck a light and set fire to a twig. This lighted for a minute a small room, which appeared perfectly empty. At the back was a rude fireplace, with a few cold cinders, supporting an armful of dry wood.

Pencroft threw the blazing twig on it, the wood crackled and gave fo rth a bright light.

The sailor and his two companions then perceived a disordered bed, of which the damp and yellow coverlets proved that it had not been used for a

long time. In the corner of the fireplace were two kettles, covered with

rust, and an overthrown pot. A cupboard, with a few moldy sailor's clothes;

on the table a tin plate and a Bible, eaten away by damp; in a corne r a few

tools, a spade, pickaxe, two fowling-pieces, one of which was broken; on a

plank, forming a shelf, stood a barrel of powder, still untouched, a barrel

of shot, and several boxes of caps, all thickly covered with dust, accumulated, perhaps, by many long years.

"There is no one here," said the reporter.

"No one," replied Pencroft.

"It is a long time since this room has been inhabited," observed Her bert.

"Yes, a very long time!" answered the reporter.

"Mr. Spilett," then said Pencroft, "instead of returning on board, I think that it would be well to pass the night in this hut."

"You are right, Pencroft," answered Gideon Spilett, "and if its owne r returns, well! perhaps he will not be sorry to find the place taken possession of."

"He will not return," said the sailor, shaking his head.

"You think that he has quitted the island?" asked the reporter.

"If he had quitted the island he would have taken away his weapons and

his tools," replied Pencroft. "You know the value which castaways se t on

such articles as these the last remains of a wreck. No! no!" repeate d the

sailor, in a tone of conviction; "no, he has not left the island! If he had

escaped in a boat made by himself, he would still less have left the se

indispensable and necessary articles. No! he is on the island!"

"Living?" asked Herbert.

"Living or dead. But if he is dead, I suppose he has not buried hims elf,

and so we shall at least find his remains!"

It was then agreed that the night should be passed in the deserted dwelling, and a store of wood found in a corner was sufficient to warm it.

The door closed, Pencroft, Herbert and Spilett remained there, seate d on a

bench, talking little but wondering much. They were in a frame of mind to

imagine anything or expect anything. They listened eagerly for sound s

outside. The door might have opened suddenly, and a man presented himself

to them without their being in the least surprised, notwithstanding all

that the hut revealed of abandonment, and they had their hands ready to

press the hands of this man, this castaway, this unknown friend, for whom

friends were waiting.

But no voice was heard, the door did not open. The hours thus passed away.

How long the night appeared to the sailor and his companions! Herber t.

alone slept for two hours, for at his age sleep is a necessity. They were

all three anxious to continue their exploration of the day before, and to

search the most secret recesses of the islet! The inferences deduced by

Pencroft were perfectly reasonable, and it was nearly certain that, as the

hut was deserted, and the tools, utensils, and weapons were still there.

the owner had succumbed. It was agreed, therefore, that they should search

for his remains, and give them at least Christian burial.

Day dawned; Pencroft and his companions immediately proceeded to survey

the dwelling. It had certainly been built in a favorable situation, at the

back of a little hill, sheltered by five or six magnificent gum-tree s.

Before its front and through the trees the axe had prepared a wide clearing, which allowed the view to extend to the sea. Beyond a lawn $\frac{1}{2}$

surrounded by a wooden fence falling to pieces, was the shore, on the left

of which was the mouth of the stream.

The hut had been built of planks, and it was easy to see that these planks had been obtained from the hull or deck of a ship. It was probable

that a disabled vessel had been cast on the coast of the island, that one

at least of the crew had been saved, and that by means of the wreck this

man, having tools at his disposal, had built the dwelling.

And this became still more evident when Gideon Spilett, after having walked around the hut, saw on a plank, probably one of those which had formed the armor of the wrecked vessel, these letters already half effaced:

BR--TAN--A

"Britannia," exclaimed Pencroft, whom the reporter had called; "it is a common name for ships, and I could not say if she was English or American!"

"It matters very little, Pencroft!"

"Very little indeed," answered the sailor, "and we will save the sur vivor

of her crew if he is still living, to whatever country he may belong . But

before beginning our search again let us go on board the 'Bonadventu re'."

A sort of uneasiness had seized Pencroft upon the subject of his ves sel.

Should the island be inhabited after all, and should some one have taken

possession of her? But he shrugged his shoulders at such an unreason able

supposition. At any rate the sailor was not sorry to go to breakfast on

board. The road already trodden was not long, scarcely a mile. They set out

on their walk, gazing into the wood and thickets through which goats and

pigs fled in hundreds.

Twenty minutes after leaving the hut Pencroft and his companions rea ched

the western coast of the island, and saw the "Bonadventure" held fas t by

her anchor, which was buried deep in the sand.

Pencroft could not restrain a sigh of satisfaction. After all this \boldsymbol{v} essel

was his child, and it is the right of fathers to be often uneasy whe n there

is no occasion for it.

They returned on board, breakfasted, so that it should not be necess ary

to dine until very late; then the repast being ended, the exploratio

n was

continued and conducted with the most minute care. Indeed, it was very

probable that the only inhabitant of the island had perished. It was

therefore more for the traces of a dead than of a living man that Pencroft

and his companions searched. But their searches were vain, and durin g the

half of that day they sought to no purpose among the thickets of tre es

which covered the islet. There was then scarcely any doubt that, if the

castaway was dead, no trace of his body now remained, but that some wild

beast had probably devoured it to the last bone.

"We will set off to-morrow at daybreak," said Pencroft to his two companions, as about two o'clock they were resting for a few minutes under the shade of a clump of firs.

"I should think that we might without scruple take the utensils which belonged to the castaway," added Herbert.

"I think so, too," returned Gideon Spilett, "and these arms and tool s will make up the stores of Granite House. The supply of powder and s hot is

also most important."

"Yes," replied Pencroft, "but we must not forget to capture a couple or two of those pigs, of which Lincoln Island is destitute."

"Nor to gather those seeds," added Herbert, "which will give us all the vegetables of the Old and the New Worlds."

"Then perhaps it would be best," said the reporter, "to remain a day longer on Tabor Island, so as to collect all that may be useful to us."

"No, Mr. Spilett," answered Pencroft, "I will ask you to set off tomorrow $% \left(1\right) =\left(1\right) +\left(1\right) +$

at daybreak. The wind seems to me to be likely to shift to the west, and

after having had a fair wind for coming we shall have a fair wind for going back."

"Then do not let us lose time," said Herbert, rising.

"We won't waste time," returned Pencroft. "You, Herbert, go and gath

er

the seeds, which you know better than we do. While you do that, ${\tt Mr.}$ Spilett

and I will go and have a pig hunt, and even without Top I hope we shall

manage to catch a few!"

Herbert accordingly took the path which led towards the cultivated p art

of the islet, while the sailor and the reporter entered the forest.

Many specimens of the porcine race fled before them, and these animals,

which were singularly active, did not appear to be in a humor to all ow

themselves to be approached.

However, after an hour's chase, the hunters had just managed to get hold

of a couple lying in a thicket, when cries were heard resounding fro $\ensuremath{\mathtt{m}}$ the

north part of the island, With the cries were mingled terrible yells , in

which there was nothing human.

Pencroft and Gideon Spilett were at once on their feet, and the pigs by

this movement began to run away, at the moment when the sailor was g etting

ready the rope to bind them.

"That's Herbert's voice," said the reporter.

"Run!" exclaimed Pencroft.

And the sailor and Spilett immediately ran at full speed towards the spot

from whence the cries proceeded.

They did well to hasten, for at a turn of the path near a clearing they

saw the lad thrown on the ground and in the grasp of a savage being,

apparently a gigantic ape, who was about to do him some great harm.

To rush on this monster, throw him on the ground in his turn, snatch

Herbert from him, then bind him securely, was the work of a minute for

Pencroft and Gideon Spilett. The sailor was of Herculean strength, the

reporter also very powerful, and in spite of the monster's resistanc e he

was firmly tied so that he could not even move.

"You are not hurt, Herbert?" asked Spilett.

"No, no!"

"Oh, if this ape had wounded him!" exclaimed Pencroft.

"But he is not an ape," answered Herbert.

At these words Pencroft and Gideon Spilett looked at the singular being

who lay on the ground. Indeed it was not an ape; it was a human bein g, a

man. But what a man! A savage in all the horrible acceptation of the word,

and so much the more frightful that he seemed fallen to the lowest d egree

of brutishness!

Shaggy hair, untrimmed beard descending to the chest, the body almos \boldsymbol{t}

naked except a rag round the waist, wild eyes, enormous hands with immensely long nails, skin the color of mahogany, feet as hard as if made

of horn, such was the miserable creature who yet had a claim to be called a

man. But it might justly be asked if there were yet a soul in this b ody, or

if the brute instinct alone survived in it!

"Are you quite sure that this is a man, or that he has ever been one ?"
said Pencroft to the reporter.

"Alas! there is no doubt about it," replied Spilett.

"Then this must be the castaway?" asked Herbert.

"Yes," replied Gideon Spilett, "but the unfortunate man has no longe r anything human about him!"

The reporter spoke the truth. It was evident that if the castaway had

ever been a civilized being, solitude had made him a savage, or wors e.

perhaps a regular man of the woods. Hoarse sounds issued from his throat between his teeth, which were sharp as the teeth of a wild beast made to tear raw flesh.

Memory must have deserted him long before, and for a long time also he

had forgotten how to use his gun and tools, and he no longer knew ho w to

make a fire! It could be seen that he was active and powerful, but the

physical qualities had been developed in him to the injury of the moral

qualities. Gideon Spilett spoke to him. He did not appear to underst and or

even to hear. And yet on looking into his eyes, the reporter thought

could see that all reason was not extinguished in him. However, the prisoner did not struggle, nor even attempt to break his bonds. Was he

overwhelmed by the presence of men whose fellow he had once been? Ha

found in some corner of his brain a fleeting remembrance which recalled \lim

to humanity? If free, would he attempt to fly, or would he remain? T hey

could not tell, but they did not make the experiment; and after gazing

attentively at the miserable creature, --

"Whoever he may be," remarked Gideon Spilett, "whoever he may have been,

and whatever he may become, it is our duty to take him with us to Li ncoln Island."

"Yes, yes!" replied Herbert, "and perhaps with care we may arouse in him same gleam of intelligence."

"The soul does not die," said the reporter, "and it would be a great satisfaction to rescue one of God's creatures from brutishness."

Pencroft shook his head doubtfully.

"We must try at any rate," returned the reporter; "humanity commands us."

It was indeed their duty as Christians and civilized beings. All thr

felt this, and they well knew that Cyrus Harding would approve of their acting thus.

"Shall we leave him bound?" asked the sailor.

"Perhaps he would walk if his feet were unfastened," said Herbert.

"Let us try," replied Pencroft.

The cords which shackled the prisoner's feet were cut off, but his a rms

remained securely fastened. He got up by himself and did not manifes t any

desire to run away. His hard eyes darted a piercing glance at the th ree

men, who walked near him, but nothing denoted that he recollected being

their fellow, or at least having been so. A continual hissing sound issued

from his lips, his aspect was wild, but he did not attempt to resist .

By the reporter's advice the unfortunate man was taken to the hut. Perhaps the sight of the things that belonged to him would make some

impression on him! Perhaps a spark would be sufficient to revive his

obscured intellect, to rekindle his dulled soul. The dwelling was no t far

off. In a few minutes they arrived there, but the prisoner remembere d

nothing, and it appeared that he had lost consciousness of everythin g.

What could they think of the degree of brutishness into which this miserable being had fallen, unless that his imprisonment on the isle t dated

from a very distant period and after having arrived there a rational being

solitude had reduced him to this condition.

The reporter then thought that perhaps the sight of fire would have some

effect on him, and in a moment one of those beautiful flames, that a ttract

even animals, blazed up on the hearth. The sight of the flame seemed at

first to fix the attention of the unhappy object, but soon he turned away

and the look of intelligence faded. Evidently there was nothing to be done,

for the time at least, but to take him on board the "Bonadventure." This

was done, and he remained there in Pencroft's charge.

Herbert and Spilett returned to finish their work; and some hours af

they came back to the shore, carrying the utensils and guns, a store of

vegetables, of seeds, some game, and two couple of pigs.

All was embarked, and the "Bonadventure" was ready to weigh anchor a nd

sail with the morning tide.

The prisoner had been placed in the fore-cabin, where he remained quiet,

silent, apparently deaf and dumb.

Pencroft offered him something to eat, but he pushed away the cooked meat

that was presented to him and which doubtless did not suit him. But on the

sailor showing him one of the ducks which Herbert had killed, he pounced on

it like a wild beast, and devoured it greedily.

"You think that he will recover his senses?" asked Pencroft. "It is not

impossible that our care will have an effect upon him, for it is sol itude

that has made him what he is, and from this time forward he will be no

longer alone."

"The poor man must no doubt have been in this state for a long time, " said Herbert.

"Perhaps," answered Gideon Spilett.

"About what age is he?" asked the lad.

"It is difficult to say," replied the reporter, "for it is impossible to

see his features under the thick beard which covers his face, but he is no

longer young, and I suppose he might be about fifty."

"Have you noticed, Mr. Spilett, how deeply sunk his eyes are?" asked Herbert.

"Yes, Herbert, but I must add that they are more human than one could expect from his appearance."

"However, we shall see," replied Pencroft, "and I am anxious to know what

opinion Captain Harding will have of our savage. We went to look for a

human creature, and we are bringing back a monster! After all, we did what

we could."

The night passed, and whether the prisoner slept or not could not be

known, but at any rate, although he had been unbound, he did not mov e. He

was like a wild animal, which appears stunned at first by its captur e, and

becomes wild again afterwards.

At daybreak the next morning, the 15th of October, the change of weather

predicted by Pencroft occurred. The wind having shifted to the north west

favored the return of the "Bonadventure," but at the same time it

freshened, which might render navigation more difficult.

At five o'clock in the morning the anchor was weighed. Pencroft took a reef in the mainsail, and steered towards the north-east, so as to sail straight for Lincoln Island.

The first day of the voyage was not marked by any incident. The pris oner

remained quiet in the fore-cabin, and as he had been a sailor it appeared

that the motion of the vessel might produce on him a salutary reacti on. Did

some recollection of his former calling return to him? However that might

be, he remained tranquil, astonished rather than depressed.

The next day the wind increased, blowing more from the north, consequently in a less favorable direction for the "Bonadventure." Pencroft

was soon obliged to sail close-hauled, and without saying anything a bout it

he began to be uneasy at the state of the sea, which frequently brok e over

the bows. Certainly, if the wind did not moderate, it would take a longer

time to reach Lincoln Island than it had taken to make Tabor Island.

Indeed, on the morning of the 17th, the "Bonadventure" had been fort y-

eight hours at sea, and nothing showed that she was near the island. It was

impossible, besides, to estimate the distance traversed, or to trust to the

reckoning for the direction, as the speed had been very irregular.

Twenty-four hours after there was yet no land in sight. The wind was

right ahead and the sea very heavy. The sails were close-reefed, and they

tacked frequently. On the 18th, a wave swept completely over the "Bonadventure"; and if the crew had not taken the precaution of lash ing

themselves to the deck, they would have been carried away.

On this occasion Pencroft and his companions, who were occupied with

loosing themselves, received unexpected aid from the prisoner, who e merged

from the hatchway as if his sailor's instinct had suddenly returned, broke

a piece out of the bulwarks with a spar so as to let the water which filled

the deck escape. Then the vessel being clear, he descended to his ca

bin

without having uttered a word. Pencroft, Gideon Spilett, and Herbert, greatly astonished, let him proceed.

Their situation was truly serious, and the sailor had reason to fear that

he was lost on the wide sea without any possibility of recovering his course.

The night was dark and cold. However, about eleven o'clock, the wind fell, the sea went down, and the speed of the vessel, as she labored less, greatly increased.

Neither Pencroft, Spilett, nor Herbert thought of taking an hour's s leep.

They kept a sharp look-out, for either Lincoln Island could not be f ar

distant and would be sighted at daybreak, or the "Bonadventure," car ried

away by currents, had drifted so much that it would be impossible to

rectify her course. Pencroft, uneasy to the last degree, yet did not

despair, for he had a gallant heart, and grasping the tiller he anxiously

endeavored to pierce the darkness which surrounded them.

About two o'clock in the morning he started forward, --

"A light! a light!" he shouted.

Indeed, a bright light appeared twenty miles to the northeast. Linco ln

Island was there, and this fire, evidently lighted by Cyrus Harding, showed

them the course to be followed. Pencroft, who was bearing too much to the

north, altered his course and steered towards the fire, which burned

brightly above the horizon like a star of the first magnitude.

Chapter 15

The next day, the 20th of October, at seven o'clock in the morning, after a

voyage of four days, the "Bonadventure" gently glided up to the beach at

the mouth of the Mercy.

Cyrus Harding and Neb, who had become very uneasy at the bad weather and

the prolonged absence of their companions, had climbed at daybreak to the plateau of Prospect Heights, and they had at last caught sight of the vessel which had been so long in returning.

"God be praised! there they are!" exclaimed Cyrus Harding.

As to Neb in his joy, he began to dance, to twirl round, clapping his hands and shouting, "Oh! my master!" A more touching pantomime than the finest discourse.

The engineer's first idea, on counting the people on the deck of the "Bonadventure," was that Pencroft had not found the castaway of Tabor Island, or at any rate that the unfortunate man had refused to leave his island and change one prison for another.

Indeed Pencroft, Gideon Spilett, and Herbert were alone on the deck of the "Bonadventure."

The moment the vessel touched, the engineer and Neb were waiting on the beach, and before the passengers had time to leap on to the sand, Ha rding said: "We have been very uneasy at your delay, my friends! Did you meet with any accident?"

"No," replied Gideon Spilett; "on the contrary, everything went wonderfully well. We will tell you all about it."

"However," returned the engineer, "your search has been unsuccessful, since you are only three, just as you went!"

"Excuse me, captain," replied the sailor, "we are four."

"You have found the castaway?"

"Yes."

"And you have brought him?"

"Yes."

"Living?"

"Yes."

"Where is he? Who is he?"

"He is," replied the reporter, "or rather he was a man! There, Cyrus, that is all we can tell you!"

The engineer was then informed of all that had passed during the voy age,

and under what conditions the search had been conducted; how the only

dwelling in the island had long been abandoned; how at last a castaw ay had

been captured, who appeared no longer to belong to the human species

"And that's just the point," added Pencroft, "I don't know if we hav e done right to bring him here."

"Certainly you have, Pencroft," replied the engineer quickly.

"But the wretched creature has no sense!"

"That is possible at present," replied Cyrus Harding, "but only a fe $\ensuremath{\mathtt{w}}$

months ago the wretched creature was a man like you and me. And who knows

what will become of the survivor of us after a long solitude on this

island? It is a great misfortune to be alone, my friends; and it mus t be

believed that solitude can quickly destroy reason, since you have found

this poor creature in such a state!"

"But, captain," asked Herbert, "what leads you to think that the brutishness of the unfortunate man began only a few months back?"

"Because the document we found had been recently written," answered the $\ensuremath{\text{c}}$

engineer, "and the castaway alone can have written it."

"Always supposing," observed Gideon Spilett, "that it had not been written by a companion of this man, since dead."

"That is impossible, my dear Spilett."

"Why so?" asked the reporter.

"Because the document would then have spoken of two castaways," replied

Harding, "and it mentioned only one."

Herbert then in a few words related the incidents of the voyage, and dwelt on the curious fact of the sort of passing gleam in the prison er's

mind, when for an instant in the height of the storm he had become a sailor.

"Well, Herbert," replied the engineer, "you are right to attach grea t importance to this fact. The unfortunate man cannot be incurable, an d despair has made him what he is; but here he will find his fellow-me n, and

since there is still a soul in him, this soul we shall save!"

The castaway of Tabor Island, to the great pity of the engineer and the great astonishment of Neb, was then brought from the cabin which he occupied in the fore part of the "Bonadventure"; when once on land he manifested a wish to run away.

But Cyrus Harding approaching, placed his hand on his shoulder with a gesture full of authority, and looked at him with infinite tendernes s.

Immediately the unhappy man, submitting to a superior will, graduall Y became calm, his eyes fell, his head bent, and he made no more resistance.

"Poor fellow!" murmured the engineer.

Cyrus Harding had attentively observed him. To judge by his appearan ce this miserable being had no longer anything human about him, and yet Harding, as had the reporter already, observed in his look an indefinable trace of intelligence.

It was decided that the castaway, or rather the stranger as he was thenceforth termed by his companions, should live in one of the room s of

Granite House, from which, however, he could not escape. He was led there

without difficulty, and with careful attention, it might, perhaps, be hoped

that some day he would be a companion to the settlers in Lincoln Isl and.

Cyrus Harding, during breakfast, which Neb had hastened to prepare, as

the reporter, Herbert, and Pencroft were dying of hunger, heard in detail

all the incidents which had marked the voyage of exploration to the islet.

He agreed with his friends on this point, that the stranger must be either

English or American, the name Britannia leading them to suppose this , and,

besides, through the bushy beard, and under the shaggy, matted hair, the

engineer thought he could recognize the characteristic features of the

Anglo-Saxon.

"But, by the bye," said Gideon Spilett, addressing Herbert, "you never

told us how you met this savage, and we know nothing, except that yo u would

have been strangled, if we had not happened to come up in time to he lp you!"

"Upon my word," answered Herbert, "it is rather difficult to say how it

happened. I was, I think, occupied in collecting my plants, when I h eard a

noise like an avalanche falling from a very tall tree. I scarcely ha d time

to look round. This unfortunate man, who was without doubt concealed in a

tree, rushed upon me in less time than I take to tell you about it, and

unless Mr. Spilett and Pencroft--"

"My boy!" said Cyrus Harding, "you ran a great danger, but, perhaps,

without that, the poor creature would have still hidden himself from your

search, and we should not have had a new companion."

"You hope, then, Cyrus, to succeed in reforming the man?" asked the reporter.

"Yes," replied the engineer.

Breakfast over, Harding and his companions left Granite House and returned to the beach. They there occupied themselves in unloading the

"Bonadventure," and the engineer, having examined the arms and tools, saw

nothing which could help them to establish the identity of the stranger.

The capture of pigs, made on the islet, was looked upon as being ver Y

profitable to Lincoln Island, and the animals were led to the sty, w here

they soon became at home.

The two barrels, containing the powder and shot, as well as the box of

caps, were very welcome. It was agreed to establish a small powder-

magazine, either outside Granite House or in the Upper Cavern, where there

would be no fear of explosion. However, the use of pyroxyle was to be

continued, for this substance giving excellent results, there was no reason

for substituting ordinary powder.

When the unloading of the vessel was finished, --

"Captain," said Pencroft, "I think it would be prudent to put our 'Bonadventure' in a safe place."

"Is she not safe at the mouth of the Mercy?" asked Cyrus Harding.

"No, captain," replied the sailor. "Half of the time she is stranded on the sand, and that works her. She is a famous craft, you see, and sh

behaved admirably during the squall which struck us on our return."

"Could she not float in the river?"

"No doubt, captain, she could; but there is no shelter there, and in the east winds, I think that the 'Bonadventure' would suffer much from the surf."

"Well, where would you put her, Pencroft?"

"In Port Balloon," replied the sailor. "That little creek, shut in by rocks, seems to me to be just the harbor we want."

"Is it not rather far?"

"Pooh! it is not more than three miles from Granite House, and we have a fine straight road to take us there!"

"Do it then, Pencroft, and take your 'Bonadventure' there," replied the engineer. "and yet I would rather have her under our more immediate

engineer, "and yet I would rather have her under our more immediate protection. When we have time, we must make a little harbor for her."

"Famous!" exclaimed Pencroft. "A harbor with a lighthouse, a pier, a nd dock! Ah! really with you, captain, everything becomes easy."

"Yes, my brave Pencroft," answered the engineer, "but on condition, however, that you help me, for you do as much as three men in all ou r work."

Herbert and the sailor then re-embarked on board the "Bonadventure," the

anchor was weighed, the sail hoisted, and the wind drove her rapidly

towards Claw Cape. Two hours after, she was reposing on the tranquil waters

of Port Balloon.

During the first days passed by the stranger in Granite House, had he

already given them reason to think that his savage nature was becoming

tamed? Did a brighter light burn in the depths of that obscured mind ? In

short, was the soul returning to the body?

Yes, to a certainty, and to such a degree, that Cyrus Harding and the

reporter wondered if the reason of the unfortunate man had ever been

totally extinguished. At first, accustomed to the open air, to the unrestrained liberty which he had enjoyed on Tabor Island, the stranger

manifested a sullen fury, and it was feared that he might throw hims

onto the beach, out of one of the windows of Granite House. But gradually

he became calmer, and more freedom was allowed to his movements.

They had reason to hope, and to hope much. Already, forgetting his carnivorous instincts, the stranger accepted a less bestial nourishm ent

than that on which he fed on the islet, and cooked meat did not produce in

him the same sentiment of repulsion which he had showed on board the

"Bonadventure." Cyrus Harding had profited by a moment when he was sleeping, to cut his hair and matted beard, which formed a sort of m ane and

gave him such a savage aspect. He had also been clothed more suitably,

after having got rid of the rag which covered him. The result was that,

thanks to these attentions, the stranger resumed a more human appear ance,

and it even seemed as if his eyes had become milder. Certainly, when

formerly lighted up by intelligence, this man's face must have had a sort

of beauty.

Every day, Harding imposed on himself the task of passing some hours in

his company. He came and worked near him, and occupied himself in different

things, so as to fix his attention. A spark, indeed, would be suffic

ient to

reillumine that soul, a recollection crossing that brain to recall r eason.

That had been seen, during the storm, on board the "Bonadventure!" The

engineer did not neglect either to speak aloud, so as to penetrate a t the

same time by the organs of hearing and sight the depths of that torp id

intelligence. Sometimes one of his companions, sometimes another, so metimes

all joined him. They spoke most often of things belonging to the nav \mathbf{y} ,

which must interest a sailor.

At times, the stranger gave some slight attention to what was said, and

the settlers were soon convinced that he partly understood them. Som etimes

the expression of his countenance was deeply sorrowful, a proof that he

suffered mentally, for his face could not be mistaken; but he did no

speak, although at different times, however, they almost thought that words

were about to issue from his lips. At all events, the poor creature was

quite quiet and sad!

But was not his calm only apparent? Was not his sadness only the res

of his seclusion? Nothing could yet be ascertained. Seeing only cert ain

objects and in a limited space, always in contact with the colonists , to

whom he would soon become accustomed, having no desires to satisfy, better

fed, better clothed, it was natural that his physical nature should gradually improve; but was he penetrated with the sense of a new life? or

rather, to employ a word which would be exactly applicable to him, was he

not becoming tamed, like an animal in company with his master? This was an

important question, which Cyrus Harding was anxious to answer, and y et he

did not wish to treat his invalid roughly! Would he ever be a conval escent?

How the engineer observed him every moment! How he was on the watch for

his soul, if one may use the expression! How he was ready to grasp it! The

settlers followed with real sympathy all the phases of the cure undertaken

by Harding. They aided him also in this work of humanity, and all, e

xcept

perhaps the incredulous Pencroft, soon shared both his hope and his faith.

The calm of the stranger was deep, as has been said, and he even sho wed a

sort of attachment for the engineer, whose influence he evidently felt.

Cyrus Harding resolved then to try him, by transporting him to anoth er

scene, from that ocean which formerly his eyes had been accustomed to

contemplate, to the border of the forest, which might perhaps recall those

where so many years of his life had been passed!

"But," said Gideon Spilett, "can we hope that he will not escape, if once set at liberty?"

"The experiment must be tried," replied the engineer.

"Well!" said Pencroft. "When that fellow is outside, and feels the fresh

air, he will be off as fast as his legs can carry him!"

"I do not think so," returned Harding.

"Let us try," said Spilett.

"We will try," replied the engineer.

This was on the 30th of October, and consequently the castaway of ${\tt Ta}$ bor

Island had been a prisoner in Granite House for nine days. It was warm, and

a bright sun darted its rays on the island. Cyrus Harding and Pencro ft went

to the room occupied by the stranger, who was found lying near the $\ensuremath{\mathbf{w}}$ indow

and gazing at the sky.

"Come, my friend," said the engineer to him.

The stranger rose immediately. His eyes were fixed on Cyrus Harding, and

he followed him, while the sailor marched behind them, little confident as

to the result of the experiment.

Arrived at the door, Harding and Pencroft made him take his place in the

lift, while Neb, Herbert, and Gideon Spilett waited for them before $\mbox{\it Granite}$

House. The lift descended, and in a few moments all were united on the

beach.

The settlers went a short distance from the stranger, so as to leave him at liberty.

He then made a few steps toward the sea, and his look brightened with

extreme animation, but he did not make the slightest attempt to escape. He

was gazing at the little waves which, broken by the islet, rippled on the sand.

"This is only the sea," observed Gideon Spilett, "and possibly it do es not inspire him with any wish to escape!"

"Yes," replied Harding, "we must take him to the plateau, on the border of the forest. There the experiment will be more conclusive."

"Besides, he could not run away," said Neb, "since the bridge is rai sed."

"Oh!" said Pencroft, "that isn't a man to be troubled by a stream like
Creek Glycerine! He could cross it directly, at a single bound!"

"We shall soon see," Harding contented himself with replying, his ey es not quitting those of his patient.

The latter was then led towards the mouth of the Mercy, and all clim bing the left bank of the river, reached Prospect Heights.

Arrived at the spot on which grew the first beautiful trees of the forest, their foliage slightly agitated by the breeze, the stranger appeared greedily to drink in the penetrating odor which filled the atmosphere, and a long sigh escaped from his chest.

The settlers kept behind him, ready to seize him if he made any move ment to escape!

And, indeed, the poor creature was on the point of springing into the

creek which separated him from the forest, and his legs were bent for an

instant as if for a spring, but almost immediately he stepped back, half

sank down, and a large tear fell from his eyes.

"Ah!" exclaimed Cyrus Harding, "you have become a man again, for you can

weep!"

Chapter 16

Yes! the unfortunate man had wept! Some recollection doubtless had f

across his brain, and to use Cyrus Harding's expression, by those te ars he

was once more a man.

The colonists left him for some time on the plateau, and withdrew themselves to a short distance, so that he might feel himself free; but he

did not think of profiting by this liberty, and Harding soon brought him

back to Granite House. Two days after this occurrence, the stranger appeared to wish gradually to mingle with their common life. He evid ently

heard and understood, but no less evidently was he strangely determined not

to speak to the colonists; for one evening, Pencroft, listening at the door

of his room, heard these words escape from his lips:--

"No! here! I! never!"

The sailor reported these words to his companions.

"There is some painful mystery there!" said Harding.

The stranger had begun to use the laboring tools, and he worked in the

garden. When he stopped in his work, as was often the case, he remained

retired within himself, but on the engineer's recommendation, they respected the reserve which he apparently wished to keep. If one of the

settlers approached him, he drew back, and his chest heaved with sobs, as

if overburdened!

Was it remorse that overwhelmed him thus? They were compelled to bel ieve

so, and Gideon Spilett could not help one day making this observatio n,--

"If he does not speak it is because he has, I fear, things too serio us to be told!"

They must be patient and wait.

A few days later, on the 3rd of November, the stranger, working on the

plateau, had stopped, letting his spade drop to the ground, and Hard

ing,

who was observing him from a little distance, saw that tears were ag ain

flowing from his eyes. A sort of irresistible pity led him towards the

unfortunate man, and he touched his arm lightly.

"My friend!" said he.

The stranger tried to avoid his look, and Cyrus Harding having endea vored

to take his hand, he drew back quickly.

"My friend," said Harding in a firmer voice, "look at me, I wish it!

The stranger looked at the engineer, and seemed to be under his powe r, as

a subject under the influence of a mesmerist. He wished to run away.

then his countenance suddenly underwent a transformation. His eyes f lashed.

Words struggled to escape from his lips. He could no longer contain himself! At last he folded his arms; then, in a hollow voice,--"Who are

you?" he asked Cyrus Harding.

"Castaways, like you," replied the engineer, whose emotion was deep. "We

have brought you here, among your fellow-men."

"My fellow-men!. . . . I have none!"

"You are in the midst of friends."

"Friends!--for me! friends!" exclaimed the stranger, hiding his face in

his hands. "No--never--leave me! leave me!"

Then he rushed to the side of the plateau which overlooked the sea, and

remained there a long time motionless.

Harding rejoined his companions and related to them what had just happened.

"Yes! there is some mystery in that man's life," said Gideon Spilett,
"and it appears as if he had only re-entered society by the path of remorse."

"I don't know what sort of a man we have brought here," said the sai lor.

"He has secrets--"

"Which we will respect," interrupted Cyrus Harding quickly. "If he h

as

committed any crime, he has most fearfully expiated it, and in our e yes he is absolved."

For two hours the stranger remained alone on the shore, evidently un der

the influence of recollections which recalled all his past life--a melancholy life doubtless--and the colonists, without losing sight of him,

did not attempt to disturb his solitude. However, after two hours, appearing to have formed a resolution, he came to find Cyrus Harding . His

eyes were red with the tears he had shed, but he wept no longer. His

countenance expressed deep humility. He appeared anxious, timorous, ashamed, and his eyes were constantly fixed on the ground.

"Sir," said he to Harding, "your companions and you, are you English?"

"No," answered the engineer, "we are Americans."

"Ah!" said the stranger, and he murmured, "I prefer that!"

"And you, my friend?" asked the engineer.

"English," replied he hastily.

And as if these few words had been difficult to say, he retreated to the

beach, where he walked up and down between the cascade and the mouth of the

Mercy, in a state of extreme agitation.

Then, passing one moment close to Herbert, he stopped and in a stifl $\operatorname{\mathsf{ed}}$

voice,--

"What month?" he asked.

"December," replied Herbert.

"What year?"

"1866."

"Twelve years! twelve years!" he exclaimed.

Then he left him abruptly.

Herbert reported to the colonists the questions and answers which ha $\ensuremath{\mathtt{d}}$

been made.

"This unfortunate man," observed Gideon Spilett, "was no longer

acquainted with either months or years!"

"Yes!" added Herbert, "and he had been twelve years already on the i slet

when we found him there!"

"Twelve years!" rejoined Harding. "Ah! twelve years of solitude, aft

wicked life, perhaps, may well impair a man's reason!"

"I am induced to think," said Pencroft, "that this man was not wreck ed on

Tabor Island, but that in consequence of some crime he was left ther e."

"You must be right, Pencroft," replied the reporter, "and if it is s

is not impossible that those who left him on the island may return t o fetch

him some day!"

"And they will no longer find him," said Herbert.

"But then," added Pencroft, "they must return, and--"

"My friends," said Cyrus Harding, "do not let us discuss this questi

until we know more about it. I believe that the unhappy man has suff

that he has severely expiated his faults, whatever they may have bee

that the wish to unburden himself stifles him. Do not let us press h

tell us his history! He will tell it to us doubtless, and when we kn ow it,

we shall see what course it will be best to follow. He alone besides

tell us, if he has more than a hope, a certainty, of returning some day to

his country, but I doubt it!"

"And why?" asked the reporter.

"Because that, in the event of his being sure of being delivered at

certain time, he would have waited the hour of his deliverance and w ould

not have thrown this document into the sea. No, it is more probable that he

was condemned to die on that islet, and that he never expected to se e his

fellow-creatures again!"

"But," observed the sailor, "there is one thing which I cannot expla in."

- "What is it?"
- "If this man had been left for twelve years on Tabor Island, one may well
- suppose that he had been several years already in the wild state in which

we found him!"

- "That is probable," replied Cyrus Harding.
- "It must then be many years since he wrote that document!"
- "No doubt," and yet the document appears to have been recently writt en!
- "Besides, how do you know that the bottle which enclosed the documen $\ensuremath{\mathsf{t}}$ may
- not have taken several years to come from Tabor Island to Lincoln Island?"
- "That is not absolutely impossible," replied the reporter.
- "Might it not have been a long time already on the coast of the isla nd?"
- "No," answered Pencroft, "for it was still floating. We could not even
- suppose that after it had stayed for any length of time on the shore , it
- would have been swept off by the sea, for the south coast is all roc ks, and
- it would certainly have been smashed to pieces there!"
- "That is true," rejoined Cyrus Harding thoughtfully.
- "And then," continued the sailor, "if the document was several years old,
- if it had been shut up in that bottle for several years, it would have been
- injured by damp. Now, there is nothing of the kind, and it was found in a

perfect state of preservation."

- The sailor's reasoning was very just, and pointed out an incomprehen sible
- fact, for the document appeared to have been recently written, when
- colonists found it in the bottle. Moreover, it gave the latitude and
- longitude of Tabor Island correctly, which implied that its author h ad a
- more complete knowledge of hydrography than could be expected of a common sailor.
- "There is in this, again, something unaccountable," said the enginee

r

"but we will not urge our companions to speak. When he likes, my friends,

then we shall be ready to hear him!"

During the following days the stranger did not speak a word, and did not

once leave the precincts of the plateau. He worked away, without los ing a

moment, without taking a minute's rest, but always in a retired place. At

meal times he never came to Granite House, although invited several times

to do so, but contented himself with eating a few raw vegetables. At

nightfall he did not return to the room assigned to him, but remaine d under

some clump of trees, or when the weather was bad crouched in some cleft of

the rocks. Thus he lived in the same manner as when he had no other shelter

than the forests of Tabor Island, and as all persuasion to induce him to

improve his life was in vain, the colonists waited patiently. And the time

was near, when, as it seemed, almost involuntarily urged by his conscience,

a terrible confession escaped him.

On the 10th of November, about eight o'clock in the evening, as night was

coming on, the stranger appeared unexpectedly before the settlers, \mathbf{w} ho were

assembled under the veranda. His eyes burned strangely, and he had ${\bf q}$ uite

resumed the wild aspect of his worst days.

Cyrus Harding and his companions were astounded on seeing that, over come

by some terrible emotion, his teeth chattered like those of a person in a

fever. What was the matter with him? Was the sight of his fellow-cre atures

insupportable to him? Was he weary of this return to a civilized mode of

existence? Was he pining for his former savage life? It appeared so, as

soon he was heard to express himself in these incoherent sentences:-

"Why am I here?.... By what right have you dragged me from my islet?

Do you think there could be any tie between you and me?.... Do you k now who

I am--what I have done--why I was there--alone? And who told you that I was

not abandoned there--that I was not condemned to die there?.... Do y ou know

my past?.... How do you know that I have not stolen, murdered--that I am

not a wretch--an accursed being--only fit to live like a wild beast, far

from all--speak--do you know it?"

The colonists listened without interrupting the miserable creature, from

whom these broken confessions escaped, as it were, in spite of himse lf.

Harding wishing to calm him, approached him, but he hastily drew bac k.

"No! no!" he exclaimed; "one word only--am I free?"

"You are free," answered the engineer.

"Farewell, then!" he cried, and fled like a madman.

Neb, Pencroft, and Herbert ran also towards the edge of the wood--bu t they returned alone.

"We must let him alone!" said Cyrus Harding.

"He will never come back!" exclaimed Pencroft.

"He will come back," replied the engineer.

Many days passed; but Harding--was it a sort of presentiment?
--presentiment in the fixed idea that sooner or later the unhappy man number of the sound return.

"It is the last revolt of his wild nature," said he, "which remorse has touched, and which renewed solitude will terrify."

In the meanwhile, works of all sorts were continued, as well on Prospect

Heights as at the corral, where Harding intended to build a farm. It is

unnecessary to say that the seeds collected by Herbert on Tabor Isla nd had

been carefully sown. The plateau thus formed one immense kitchen-gar den,

well laid out and carefully tended, so that the arms of the settlers were

never in want of work. There was always something to be done. As the

esculents increased in number, it became necessary to enlarge the $\sin mple$

beds, which threatened to grow into regular fields and replace the m eadows.

But grass abounded in other parts of the island, and there was no fe ar of

the onagers being obliged to go on short allowance. It was well wort h

while, besides, to turn Prospect Heights into a kitchen-garden, defended by

its deep belt of creeks, and to remove them to the meadows, which had no

need of protection against the depredations of quadrumana and quadra peds.

On the 15th of November, the third harvest was gathered in. How wonderfully had the field increased in extent, since eighteen months ago,

when the first grain of wheat was sown! The second crop of six hundred

thousand grains produced this time four thousand bushels, or five hundred

millions of grains!

The colony was rich in corn, for ten bushels alone were sufficient for

sowing every year to produce an ample crop for the food both of men and

beasts. The harvest was completed, and the last fortnight of the mon th of

November was devoted to the work of converting it into food for man. In

fact, they had corn, but not flour, and the establishment of a mill was

necessary. Cyrus Harding could have utilized the second fall which flowed

into the Mercy to establish his motive power, the first being alread Y

occupied with moving the felting mill, but, after some consultation, it was

decided that a simple windmill should be built on Prospect Heights. The

building of this presented no more difficulty than the building of the

former, and it was moreover certain that there would be no want of \boldsymbol{w} ind on

the plateau, exposed as it was to the sea breezes.

"Not to mention," said Pencroft, "that the windmill will be more lively

and will have a good effect in the landscape!"

They set to work by choosing timber for the frame and machinery of the

mill. Some large stones, found at the north of the lake, could be easily

transformed into millstones, and as to the sails, the inexhaustible case of

the balloon furnished the necessary material.

Cyrus Harding made his model, and the site of the mill was chosen a little to the right of the poultry-yard, near the shore of the lake. The

frame was to rest on a pivot supported with strong timbers, so that it

could turn with all the machinery it contained according as the wind

required it. The work advanced rapidly. Neb and Pencroft had become very

skilful carpenters, and had nothing to do but to copy the models provided

by the engineer.

Soon a sort of cylindrical box, in shape like a pepper-pot, with a pointed roof, rose on the spot chosen. The four frames which formed the

sails had been firmly fixed in the center beam, so as to form a cert ain

angle with it, and secured with iron clamps. As to the different par ts of

the internal mechanism, the box destined to contain the two millston es, the

fixed stone and the moving stone, the hopper, a sort of large square

trough, wide at the top, narrow at the bottom, which would allow the grain

to fall on the stones, the oscillating spout intended to regulate the

passing of the grain, and lastly the bolting machine, which by the operation of sifting, separates the bran from the flour, were made without

difficulty. The tools were good, and the work not difficult, for in reality, the machinery of a mill is very simple. This was only a que stion

of time.

Every one had worked at the construction of the mill, and on the 1st

December it was finished. As usual, Pencroft was delighted with his work,

and had no doubt that the apparatus was perfect.

"Now for a good wind," said he, "and we shall grind our first harves t splendidly!"

"A good wind, certainly," answered the engineer, "but not too much, Pencroft."

"Pooh! our mill would only go the faster!"

"There is no need for it to go so very fast," replied Cyrus Harding.

is known by experience that the greatest quantity of work is perform ed by a

mill when the number of turns made by the sails in a minute is six t

imes

the number of feet traversed by the wind in a second. A moderate bre eze,

which passes over twenty-four feet to the second, will give sixteen turns

to the sails during a minute, and there is no need of more."

"Exactly!" cried Herbert, "a fine breeze is blowing from the northeast,

which will soon do our business for us."

There was no reason for delaying the inauguration of the mill, for the

settlers were eager to taste the first piece of bread in Lincoln Isl and. On

this morning two or three bushels of wheat were ground, and the next day at

breakfast a magnificent loaf, a little heavy perhaps, although raise d with

yeast, appeared on the table at Granite House. Every one munched away at it

with a pleasure which may be easily understood.

In the meanwhile, the stranger had not reappeared. Several times Gid

Spilett and Herbert searched the forest in the neighborhood of Grani te

House, without meeting or finding any trace of him. They became seriously

uneasy at this prolonged absence. Certainly, the former savage of Tabor

island could not be perplexed how to live in the forest, abounding in game,

but was it not to be feared that he had resumed his habits, and that this

freedom would revive in him his wild instincts? However, Harding, by a sort

of presentiment, doubtless, always persisted in saying that the fugitive

would return.

"Yes, he will return!" he repeated with a confidence which his companions

could not share. "When this unfortunate man was on Tabor Island, he knew

himself to be alone! Here, he knows that fellow-men are awaiting him! Since

he has partially spoken of his past life, the poor penitent will ret urn to

tell the whole, and from that day he will belong to us!"

The event justified Cyrus Harding's predictions. On the 3rd of December,

Herbert had left the plateau to go and fish on the southern bank of the

lake. He was unarmed, and till then had never taken any precautions

for

defense, as dangerous animals had not shown themselves on that part of the island.

Meanwhile, Pencroft and Neb were working in the poultry-yard, while Harding and the reporter were occupied at the Chimneys in making sod a, the

store of soap being exhausted.

Suddenly cries resounded, --

"Help! help!"

Cyrus Harding and the reporter, being at too great a distance, had n ot

been able to hear the shouts. Pencroft and Neb, leaving the poultry-yard in

all haste, rushed towards the lake.

But before then, the stranger, whose presence at this place no one h ad

suspected, crossed Creek Glycerine, which separated the plateau from the

forest, and bounded up the opposite bank.

Herbert was there face to face with a fierce jaguar, similar to the one

which had been killed on Reptile End. Suddenly surprised, he was standing

with his back against a tree, while the animal gathering itself toge ther

was about to spring.

But the stranger, with no other weapon than a knife, rushed on the formidable animal, who turned to meet this new adversary.

The struggle was short. The stranger possessed immense strength and activity. He seized the jaguar's throat with one powerful hand, hold ing it

as in a vise, without heeding the beast's claws which tore his flesh . and

with the other he plunged his knife into its heart.

The jaguar fell. The stranger kicked away the body, and was about to fly

at the moment when the settlers arrived on the field of battle, but Herbert, clinging to him, cried,--

"No, no! you shall not go!"

Harding advanced towards the stranger, who frowned when he saw him approaching. The blood flowed from his shoulder under his torn shirt, but

he took no notice of it.

"My friend," said Cyrus Harding, "we have just contracted a debt of gratitude to you. To save our boy you have risked your life!"

"My life!" murmured the stranger. "What is that worth? Less than nothing!"

"You are wounded?"

"It is no matter."

"Will you give me your hand?"

And as Herbert endeavored to. seize the hand which had just saved hi $\ensuremath{\mathtt{m}}$,

the stranger folded his arms, his chest heaved, his look darkened, a nd he

appeared to wish to escape, but making a violent effort over himself, and

in an abrupt tone, --

"Who are you?" he asked, "and what do you claim to be to me?"

It was the colonists' history which he thus demanded, and for the first

time. Perhaps this history recounted, he would tell his own.

In a few words Harding related all that had happened since their departure from Richmond; how they had managed, and what resources they now

had at their disposal.

The stranger listened with extreme attention.

Then the engineer told who they all were, Gideon Spilett, Herbert, Pencroft, Neb, himself, and, he added, that the greatest happiness they had

felt since their arrival in Lincoln Island was on the return of the vessel

from Tabor Island, when they had been able to include among them a n $\ensuremath{\mathsf{ew}}$

companion.

At these words the stranger's face flushed, his head sunk on his bre ast,

and confusion was depicted on his countenance.

"And now that you know us," added Cyrus Harding, "will you give us y our hand?"

"No," replied the, stranger in a hoarse voice; "no! You are honest m en!
And I--"

These last words justified the colonists' presentiment. There had be en some

mournful past, perhaps expiated in the sight of men, but from which his

conscience had not yet absolved him. At any rate the guilty man felt

remorse, he repented, and his new friends would have cordially press ed the

hand which they sought; but he did not feel himself worthy to extend it to

honest men! However, after the scene with the jaguar, he did not return to

the forest, and from that day did not go beyond the enclosure of Gra nite

House.

What was the mystery of his life? Would the stranger one day speak of it?

Time alone could show. At any rate, it was agreed that his secret should

never be asked from him, and that they would live with him as if the ${\tt Y}$

suspected nothing.

For some days their life continued as before. Cyrus Harding and Gide on

Spilett worked together, sometimes chemists, sometimes experimentalists. The

reporter never left the engineer except to hunt with Herbert, for it would

not have been prudent to allow the lad to ramble alone in the forest; and

it was very necessary to be on their guard. As to Neb and Pencroft, one day

at the stables and poultry-yard, another at the corral, without reck oning

work in Granite House, they were never in want of employment.

The stranger worked alone, and he had resumed his usual life, never appearing at meals, sleeping under the trees in the plateau, never mingling

with his companions. It really seemed as if the society of those who had

saved him was insupportable to him!

"But then," observed Pencroft, "why did he entreat the help of his fellow-creatures? Why did he throw that paper into the sea?"

"He will tell us why," invariably replied Cyrus Harding.

"When?"

"Perhaps sooner than you think, Pencroft."

And, indeed, the day of confession was near.

On the 10th of December, a week after his return to Granite House, Harding saw the stranger approaching, who, in a calm voice and humble tone,

said to him: "Sir, I have a request to make of you."

"Speak," answered the engineer, "but first let me ask you a question ."

At these words the stranger reddened, and was on the point of withdrawing. Cyrus Harding understood what was passing in the mind of the

guilty man, who doubtless feared that the engineer would interrogate him on his past life.

Harding held him back.

"Comrade," said he, "we are not only your companions but your friend s. I wish you to believe that, and now I will listen to you."

The stranger pressed his hand over his eyes. He was seized with a so rt of trembling, and remained a few moments without being able to articula te a

"What is it?"

word.

"You have, four or five miles from here, a corral for your domestica ted animals. These animals need to be taken care of. Will you allow me to live there with them?"

Cyrus Harding gazed at the unfortunate man for a few moments with a feeling of deep commiseration; then,--

"My friend," said he, "the corral has only stables hardly fit for animals."

"It will be good enough for me, sir."

"My friend," answered Harding, "we will not constrain you in anythin g. You wish to live at the corral, so be it. You will, however, be alwa

welcome at Granite House. But since you wish to live at the corral we will

make the necessary arrangements for your being comfortably establish ed

there."

"Never mind that, I shall do very well."

"My friend," answered Harding, who always intentionally made use of this cordial appellation, "you must let us judge what it will be best to do in this respect."

"Thank you, sir," replied the stranger as he withdrew.

The engineer then made known to his companions the proposal which had been made to him, and it was agreed that they should build a wooden

been made to him, and it was agreed that they should build a wooden house

at the corral, which they would make as comfortable as possible.

That very day the colonists repaired to the corral with the necessar Y

tools, and a week had not passed before the house was ready to receive its

tenant. It was built about twenty feet from the sheds, and from ther e it

was easy to overlook the flock of sheep, which then numbered more than

eighty. Some furniture, a bed, table, bench, cupboard, and chest wer e

manufactured, and a gun, ammunition, and tools were carried to the corral.

The stranger, however, had seen nothing of his new dwelling, and he had

allowed the settlers to work there without him, while he occupied hi mself

on the plateau, wishing, doubtless, to put the finishing stroke to h is

work. Indeed, thanks to him, all the ground was dug up and ready to he

sowed when the time came.

It was on the 20th of December that all the arrangements at the corr al

were completed. The engineer announced to the stranger that his dwelling

was ready to receive him, and the latter replied that he would go an d sleep

there that very evening.

On this evening the colonists were gathered in the diningroom of Granite

House. It was then eight o'clock, the hour at which their companion was to

leave them. Not wishing to trouble him by their presence, and thus i mposing

on him the necessity of saying farewells which might perhaps be pain

ful to

him, they had left him alone and ascended to Granite House.

Now, they had been talking in the room for a few minutes, when a light

knock was heard at the door. Almost immediately the stranger entered , and $% \left(1\right) =\left(1\right) +\left(1\right)$

without any preamble, --

"Gentlemen," said he, "before I leave you, it is right that you shou ld

know my history. I will tell it you."

These simple words profoundly impressed Cyrus Harding and his companions.

The engineer rose.

"We ask you nothing, my friend," said he; "it is your right to be silent."

"It is my duty to speak."

"Sit down, then."

"No, I will stand."

"We are ready to hear you," replied Harding.

The stranger remained standing in a corner of the room, a little in

shade. He was bareheaded, his arms folded across his chest, and it $\ensuremath{\mathbf{w}}$ as in

this posture that in a hoarse voice, speaking like some one who obli

himself to speak, he gave the following recital, which his auditors did not

once interrupt:--

"On the 20th of December, 1854, a steam-yacht, belonging to a Scotch

nobleman, Lord Glenarvan, anchored off Cape Bernouilli, on the western

coast of Australia, in the thirty-seventh parallel. On board this ya

were Lord Glenarvan and his wife, a major in the English army, a French

geographer, a young girl, and a young boy. These two last were the children

of Captain Grant, whose ship, the 'Britannia,' had been lost, crew a nd

cargo, a year before. The 'Duncan' was commanded by Captain John Man gles,

and manned by a crew of fifteen men.

"This is the reason the yacht at this time lay off the coast of Australia. Six months before, a bottle, enclosing a document written

in

English, German, and French, had been found in the Irish Sea, and picked up

by the 'Duncan.' This document stated in substance that there still existed

three survivors from the wreck of the 'Britannia,' that these survivors

were Captain Grant and two of his men, and that they had found refuge on

some land, of which the document gave the latitude, but of which the

longitude, effaced by the sea, was no longer legible.

"This latitude was 37deg 11' south; therefore, the longitude being unknown,

if they followed the thirty-seventh parallel over continents and sea s, they

would be certain to reach the spot inhabited by Captain Grant and his two

companions. The English Admiralty having hesitated to undertake this

search, Lord Glenarvan resolved to attempt everything to find the captain.

He communicated with Mary and Robert Grant, who joined him. The 'Dun can'

yacht was equipped for the distant voyage, in which the nobleman's family

and the captain's children wished to take part, and the 'Duncan,' le aving

Glasgow, proceeded towards the Atlantic, passed through the Straits of

Magellan, and ascended the Pacific as far as Patagonia, where, according to

a previous interpretation of the document, they supposed that Captai n Grant

was a prisoner among the Indians.

"The 'Duncan' disembarked her passengers on the western coast of Patagonia, and sailed to pick them up again on the eastern coast at Cape

Corrientes. Lord Glenarvan traversed Patagonia, following the thirty

seventh parallel, and having found no trace of the captain, he re-embarked

on the 13th of November, so as to pursue his search through the Ocea n.

"After having unsuccessfully visited the islands of Tristan d'Acunha and

Amsterdam, situated in her course, the 'Duncan,' as I have said, arr ived at

Cape Bernouilli, on the Australian coast, on the 20th of December, 1 854.

"It was Lord Glenarvan's intention to traverse Australia as he had traversed America, and he disembarked. A few miles from the coast wa

a

established a farm, belonging to an Irishman, who offered hospitalit y to

the travelers. Lord Glenarvan made known to the Irishman the cause w hich

had brought him to these parts, and asked if he knew whether a three -masted

English vessel, the 'Britannia,' had been lost less than two years b efore

on the west coast of Australia.

"The Irishman had never heard of this wreck, but, to the great surprise

of the bystanders, one of his servants came forward and said, --

"'My lord, praise and thank God! If Captain Grant is still living, h e is

living on the Australian shores.'

"'Who are you?' asked Lord Glenarvan.

"'A Scotchman like yourself, my lord,' replied the man; 'I am one of Captain Grant's crew--one of the castaways of the "Britannia."'

"This man was called Ayrton. He was, in fact, the boatswain's mate of the

'Britannia,' as his papers showed. But, separated from Captain Grant at the

moment when the ship struck upon the rocks, he had till then believe d that

the captain with all his crew had perished, and that he, Ayrton, was the

sole survivor of the 'Britannia.'

"'Only,' he added, 'it was not on the west coast, but on the east coast $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) =\left($

of Australia that the vessel was lost, and if Captain Grant is still

living, as his document indicates, he is a prisoner among the native s, and

it is on the other coast that he must be looked for.'

"This man spoke in a frank voice and with a confident look; his word s

could not be doubted. The irishman, in whose service he had been for more

than a year, answered for his trustworthiness. Lord Glenarvan, there fore.

believed in the fidelity of this man and, by his advice, resolved to cross

Australia, following the thirty-seventh parallel. Lord Glenarvan, hi s wife,

the two children, the major, the Frenchman, Captain Mangles, and a few

sailors composed the little band under the command of Ayrton, while

the

'Duncan,' under charge of the mate, Tom Austin, proceeded to Melbourne,

there to await Lord Glenarvan's instructions.

"They set out on the 23rd of December, 1854.

"It is time to say that Ayrton was a traitor. He was, indeed, the boatswain's mate of the 'Britannia,' but, after some dispute with his

captain, he endeavored to incite the crew to mutiny and seize the ship, and

Captain Grant had landed him, on the 8th of April, 1852, on the west coast

of Australia, and then sailed, leaving him there, as was only just.

"Therefore this wretched man knew nothing of the wreck of the 'Britannia'; he had just heard of it from Glenarvan's account. Since

abandonment, he had become, under the name of Ben Joyce, the leader of the

escaped convicts; and if he boldly maintained that the wreck had tak en

place on the east coast, and led Lord Glenarvan to proceed in that direction, it was that he hoped to separate him from his ship, seize the

'Duncan,' and make the yacht a pirate in the Pacific."

Here the stranger stopped for a moment. His voice trembled, but he continued, --

"The expedition set out and proceeded across Australia. It was inevitably

unfortunate, since Ayrton, or Ben Joyce, as he may be called, guided it,

sometimes preceded, sometimes followed by his band of convicts, who had

been told what they had to do.

"Meanwhile, the 'Duncan' had been sent to Melbourne for repairs. It was

necessary, then, to get Lord Glenarvan to order her to leave Melbour ne and

go to the east coast of Australia, where it would be easy to seize h er.

After having led the expedition near enough to the coast, in the mid st of

vast forests with no resources, Ayrton obtained a letter, which he was

charged to carry to the mate of the 'Duncan'--a letter which ordered the

yacht to repair immediately to the east coast, to Twofold Bay, that is to

say a few days' journey from the place where the expedition had stop ped. It

was there that Ayrton had agreed to meet his accomplices, and two da

УS

after gaining possession of the letter, he arrived at Melbourne.

"So far the villain had succeeded in his wicked design. He would be able

to take the 'Duncan' into Twofold Bay, where it would be easy for the

convicts to seize her, and her crew massacred, Ben Joyce would becom e

master of the seas. But it pleased God to prevent the accomplishment of

these terrible projects.

"Ayrton, arrived at Melbourne, delivered the letter to the mate, Tom

Austin, who read it and immediately set sail, but judge of Ayrton's rage

and disappointment, when the next day he found that the mate was taking the

vessel, not to the east coast of Australia, to Twofold Bay, but to the east

coast of New Zealand. He wished to stop him, but Austin showed him the

letter!... And indeed, by a providential error of the French geographer.

who had written the letter, the east coast of New Zealand was mentio ned as

the place of destination.

"All Ayrton's plans were frustrated! He became outrageous. They put him

in irons. He was then taken to the coast of New Zealand, not knowing what

would become of his accomplices, or what would become of Lord Glenar van.

"The 'Duncan' cruised about on this coast until the 3rd of March. On

day Ayrton heard the report of guns. The guns on the 'Duncan' were being

fired, and soon Lord Glenarvan and his companions came on board.

"This is what had happened.

"After a thousand hardships, a thousand dangers, Lord Glenarvan had accomplished his journey, and arrived on the east coast of Australia, at

Twofold Bay. 'Not "Duncan!"' He telegraphed to Melbourne. They answe red.

'"Duncan" sailed on the 18th instant. Destination unknown.'

"Lord Glenarvan could only arrive at one conclusion; that his honest

yacht had fallen into the hands of Ben Joyce, and had become a pirat e

vessel!

"However, Lord Glenarvan would not give up. He was a bold and genero us

man. He embarked in a merchant vessel, sailed to the west coast of N $_{\rm ew}$

Zealand, traversed it along the thirty-seventh parallel, without finding

any trace of Captain Grant; but on the other side, to his great surp rise,

and by the will of Heaven, he found the 'Duncan,' under command of the

mate, who had been waiting for him for five weeks!

"This was on the 3rd of March, 1855. Lord Glenarvan was now on board the

'Duncan,' but Ayrton was there also. He appeared before the nobleman , who $\,$

wished to extract from him all that the villain knew about Captain G rant.

Ayrton refused to speak. Lord Glenarvan then told him, that at the first

port they put into, he would be delivered up to the English authorities.

Ayrton remained mute.

"The 'Duncan' continued her voyage along the thirty-seventh parallel . In

the meanwhile, Lady Glenarvan undertook to vanquish the resistance of the ruffian.

"At last, her influence prevailed, and Ayrton, in exchange for what he

could tell, proposed that Lord Glenarvan should leave him on some is land in

the Pacific, instead of giving him up to the English authorities. Lord

Glenarvan, resolving to do anything to obtain information about Capt ain

Grant, consented.

"Ayrton then related all his life, and it was certain that he knew nothing from the day on which Captain Grant had landed him on the Australian coast.

"Nevertheless, Lord Glenarvan kept the promise which he had given. The

'Duncan' continued her voyage and arrived at Tabor Island. It was there

that Ayrton was to be landed, and it was there also that, by a verit able

miracle, they found Captain Grant and two men, exactly on the thirty

seventh parallel.

"The convict, then, went to take their place on this desert islet, a

nd at

the moment he left the yacht these words were pronounced by Lord Glenarvan:--

"'Here, Ayrton, you will be far from any land, and without any possible

communication with your fellow-creatures. You can-not escape from this

islet on which the 'Duncan' leaves you. You will be alone, under the eye of

a God who reads the depths of the heart, but you will be neither los t nor

forgotten, as was Captain Grant. Unworthy as you are to be remembere d by

men, men will remember you. I know where you are Ayrton, and I know where

to find you. I will never forget it!

"And the 'Duncan,' making sail, soon disappeared. This was 18th of M arch, 1855.

(The events which have just been briefly related are taken from a work which some of our readers have no doubt read, and which is entitled, "Captain Grant's children." They will remark on this occasion, as well as later, some discrepancy in the dates; but later again, they will understand why the real dates were not at first given.)

"Ayrton was alone, but he had no want of either ammunition, weapons, tools, or seeds.

"At his, the convict's disposal, was the house built by honest Capta in

Grant. He had only to live and expiate in solitude the crimes which he had committed.

"Gentlemen, he repented, he was ashamed of his crimes and was very miserable! He said to himself, that if men came some day to take him from

that islet, he must be worthy to return among them! How he suffered, that

wretched man! How he labored to recover himself by work! How he pray ed to

be reformed by prayer! For two years, three years, this went on, but

Ayrton, humbled by solitude, always looking for some ship to appear

on the

horizon, asking himself if the time of expiation would soon be complete,

suffered as none other suffered! Oh! how dreadful was this solitude, to a

heart tormented by remorse!

"But doubtless Heaven had not sufficiently punished this unhappy man, for

he felt that he was gradually becoming a savage! He felt that brutis hness

was gradually gaining on him!

"He could not say if it was after two or three years of solitude, but at

last he became the miserable creature you found!

"I have no need to tell you, gentlemen, that ${\tt Ayrton}\,,\,{\tt Ben}\,\,{\tt Joyce}\,,\,\,{\tt and}\,\,{\tt I}\,,\,\,$

are the same."

Cyrus Harding and his companions rose at the end of this account. It is

impossible to say how much they were moved! What misery, grief, and despair

lay revealed before them!

"Ayrton," said Harding, rising, "you have been a great criminal, but

Heaven must certainly think that you have expiated your crimes! That

been proved by your having been brought again among your fellow-crea tures.

Ayrton, you are forgiven! And now you will be our companion?"

Ayrton drew back.

"Here is my hand!" said the engineer.

Ayrton grasped the hand which Harding extended to him, and great tears

fell from his eyes.

"Will you live with us?" asked Cyrus Harding.

"Captain Harding, leave me some time longer," replied Ayrton, "leave me

alone in the hut in the corral!"

"As you like, Ayrton," answered Cyrus Harding. Ayrton was going to withdraw, when the engineer addressed one more question to him:--

"One word more, my friend. Since it was your intention to live alone , why

did you throw into the sea the document which put us on your track?"

"A document?" repeated Ayrton, who did not appear to know what he me ant.

"Yes, the document which we found enclosed in a bottle, giving us the exact position of Tabor Island!"

Ayrton passed his hand over his brow, then after having thought, "I never threw any document into the sea!" he answered.

"Never?" exclaimed Pencroft.

"Never!"

And Ayrton, bowing, reached the door and departed.

Chapter 8

kness.

"Poor man!" said Herbert, who had rushed to the door, but returned, having seen Ayrton slide down the rope on the lift and disappear in the dar

"He will come back," said Cyrus Harding.

"Come, now, captain," exclaimed Pencroft, "what does that mean? What! wasn't it Ayrton who threw that bottle into the sea? Who was it then?"

Certainly, if ever a question was necessary to be made, it was that one!

"It was he," answered Neb, "only the unhappy man was half-mad."

"Yes!" said Herbert, "and he was no longer conscious of what he was doing."

"It can only be explained in that way, my friends," replied Harding quickly, "and I understand now how Ayrton was able to point out exactly the

situation of Tabor Island, since the events which had preceded his being

left on the island had made it known to him."

"However," observed Pencroft, "if he was not yet a brute when he wro te

that document, and if he threw it into the sea seven or eight years ago,

how is it that the paper has not been injured by damp?"

"That proves," answered Cyrus Harding, "that Ayrton was deprived of intelligence at a more recent time than he thinks."

"Of course it must be so," replied Pencroft, "without that the fact would

be unaccountable."

"Unaccountable indeed," answered the engineer, who did not appear desirous to prolong the conversation.

"But has Ayrton told the truth?" asked the sailor.

"Yes," replied the reporter. "The story which he has told is true in

every point. I remember quite well the account in the newspapers of the

yacht expedition undertaken by Lord Glenarvan, and its result."

"Ayrton has told the truth," added Harding. "Do not doubt it, Pencroft.

for it was painful to him. People tell the truth when they accuse themselves like that!"

The next day--the 21st of December--the colonists descended to the b each,

and having climbed the plateau they found nothing of Ayrton. He had reached

his house in the corral during the night and the settlers judged it best

not to agitate him by their presence. Time would doubtless perform w hat

sympathy had been unable to accomplish.

Herbert, Pencroft, and Neb resumed their ordinary occupations. On this

day the same work brought Harding and the reporter to the workshop a t the Chimneys.

"Do you know, my dear Cyrus," said Gideon Spilett, "that the explana tion

you gave yesterday on the subject of the bottle has not satisfied me

all! How can it be supposed that the unfortunate man was able to write that

document and throw the bottle into the sea without having the slight est

recollection of it?"

"Nor was it he who threw it in, my dear Spilett."

"You think then--"

"I think nothing, I know nothing!" interrupted Cyrus Harding. "I am content to rank this incident among those which I have not been able to

explain to this day!"

"Indeed, Cyrus," said Spilett, "these things are incredible! Your re scue,

the case stranded on the sand, Top's adventure, and lastly this bott le...

Shall we never have the answer to these enigmas?"

"Yes!" replied the engineer quickly, "yes, even if I have to penetra te

into the bowels of this island!"

"Chance will perhaps give us the key to this mystery!"

"Chance! Spilett! I do not believe in chance, any more than I believe in

mysteries in this world. There is a reason for everything unaccountable

which has happened here, and that reason I shall discover. But in the

meantime we must work and observe."

The month of January arrived. The year 1867 commenced. The summer occupations were assiduously continued. During the days which followed,

Herbert and Spilett having gone in the direction of the corral, ascertained

that Ayrton had taken possession of the habitation which had been prepared

for him. He busied himself with the numerous flock confided to his c are,

and spared his companions the trouble of coming every two or three d ays to

visit the corral. Nevertheless, in order not to leave Ayrton in soli tude

for too long a time, the settlers often paid him a visit.

It was not unimportant either, in consequence of some suspicions entertained by the engineer and Gideon Spilett, that this part of the

island should be subject to a surveillance of some sort, and that Ayrton,

if any incident occurred unexpectedly, should not neglect to inform the

inhabitants of Granite House of it.

Nevertheless it might happen that something would occur which it would be

necessary to bring rapidly to the engineer's knowledge. Independently of

facts bearing on the mystery of Lincoln Island, many others might happen.

which would call for the prompt interference of the colonists, -- such as the

sighting of a vessel, a wreck on the western coast, the possible arrival of

pirates, etc.

Therefore Cyrus Harding resolved to put the corral in instantaneous communication with Granite House.

It was on the 10th of January that he made known his project to his companions.

"Why! how are you going to manage that, captain?" asked Pencroft. "Do you

by chance happen to think of establishing a telegraph?"

"Exactly so," answered the engineer.

"Electric?" cried Herbert.

"Electric," replied Cyrus Harding. "We have all the necessary materials

for making a battery, and the most difficult thing will be to stretc h the

wires, but by means of a drawplate I think we shall manage it."

"Well, after that," returned the sailor, "I shall never despair of seeing

ourselves some day rolling along on a railway!"

They then set to work, beginning with the most difficult thing, for, if

they failed in that, it would be useless to manufacture the battery and

other accessories.

The iron of Lincoln Island, as has been said, was of excellent quality,

and consequently very fit for being drawn out. Harding commenced by manufacturing a drawplate, that is to say, a plate of steel, pierced with

conical holes of different sizes, which would successively bring the wire

to the wished-for tenacity. This piece of steel, after having been tempered, was fixed in as firm a way as possible in a solid framewor ${\bf k}$

planted in the ground, only a few feet from the great fall, the motive

power of which the engineer intended to utilize. In fact as the full ing-

mill was there, although not then in use, its beam moved with extrem e power

would serve to stretch out the wire by rolling it round itself. It was a

delicate operation, and required much care. The iron, prepared previously

in long thin rods, the ends of which were sharpened with the file, h aving

been introduced into the largest hole of the drawplate, was drawn ou t by

the beam which wound it round itself, to a length of twenty-five or thirty

feet, then unrolled, and the same operation was performed successive ly

through the holes of a less size. Finally, the engineer obtained wir es from

forty to fifty feet long, which could be easily fastened together an d

stretched over the distance of five miles, which separated the corral from

the bounds of Granite House.

It did not take more than a few days to perform this work, and indee d as

soon as the machine had been commenced, Cyrus Harding left his companions

to follow the trade of wiredrawers, and occupied himself with manufacturing

his battery.

It was necessary to obtain a battery with a constant current. It is known

that the elements of modern batteries are generally composed of reto

coal, zinc, and copper. Copper was absolutely wanting to the enginee r, who,

notwithstanding all his researches, had never been able to find any trace

of it in Lincoln Island, and was therefore obliged to do without it. Retort

coal, that is to say, the hard graphite which is found in the retort s of

gas manufactories, after the coal has been dehydrogenized, could hav e been

obtained, but it would have been necessary to establish a special apparatus, involving great labor. As to zinc, it may be remembered that the

case found at Flotsam Point was lined with this metal, which could n ot be

better utilized than for this purpose.

Cyrus Harding, after mature consideration, decided to manufacture a very

simple battery, resembling as nearly as possible that invented by Be cquerel

in 1820, and in which zinc only is employed. The other substances, a zotic

acid and potash, were all at his disposal.

The way in which the battery was composed was as follows, and the results

were to be attained by the reaction of acid and potash on each other . ${\tt A}$

number of glass bottles were made and filled with azotic acid. The engineer

corked them by means of a stopper through which passed a glass tube, bored

at its lower extremity, and intended to be plunged into the acid by

means

of a clay stopper secured by a rag. Into this tube, through its uppe ${\bf r}$

extremity, he poured a solution of potash, previously obtained by bu rning

and reducing to ashes various plants, and in this way the acid and potash

could act on each other through the clay.

Cyrus Harding then took two slips of zinc, one of which was plunged into

azotic acid, the other into a solution of potash. A current was imme diately

produced, which was transmitted from the slip of zinc in the bottle to that

in the tube, and the two slips having been connected by a metallic \boldsymbol{w} ire the

slip in the tube became the positive pole, and that in the bottle the

negative pole of the apparatus. Each bottle, therefore, produced as many

currents as united would be sufficient to produce all the phenomena of the

electric telegraph. Such was the ingenious and very simple apparatus

constructed by Cyrus Harding, an apparatus which would allow them to

establish a telegraphic communication between Granite House and the corral.

On the 6th of February was commenced the planting along the road to the

corral, of posts furnished with glass insulators, and intended to support

the wire. A few days after, the wire was extended, ready to produce the

electric current at a rate of twenty thousand miles a second.

Two batteries had been manufactured, one for Granite House, the other for

the corral; for if it was necessary the corral should be able to communicate with Granite House it might also be useful that Granite House

should be able to communicate with the corral.

As to the receiver and manipulator, they were very simple. At the two

stations the wire was wound round a magnet, that is to say, round a piece

of soft iron surrounded with a wire. The communication was thus established

between the two poles; the current, starting from the positive pole,

traversed the wire, passed through the magnet which was temporarily magnetized, and returned through the earth to the negative pole. If the

current was interrupted, the magnet immediately became unmagnetized. It was

sufficient to place a plate of soft iron before the magnet, which, attracted during the passage of the current, would fall back when the

current was interrupted. This movement of the plate thus obtained, H arding

could easily fasten to it a needle arranged on a dial, bearing the l etters

of the alphabet, and in this way communicate from one station to the other.

All was completely arranged by the 12th of February. On this day, Harding, having sent the current through the wire, asked if all was going

on well at the corral, and received in a few moments a satisfactory reply

from Ayrton. Pencroft was wild with joy, and every morning and evening he

sent a telegram to the corral, which always received an answer.

This mode of communication presented two very real advantages: first ly,

because it enabled them to ascertain that Ayrton was at the corral; and

secondly, that he was thus not left completely isolated. Besides, Cyrus

Harding never allowed a week to pass without going to see him, and A yrton

came from time to time to Granite House, where he always found a cor dial

welcome.

The fine season passed away in the midst of the usual work. The resources

of the colony, particularly in vegetables and corn, increased from d ay to

day, and the plants brought from Tabor Island had succeeded perfectl \mathbf{y} .

The plateau of Prospect Heights presented an encouraging aspect. The

fourth harvest had been admirable and it may be supposed that no one

thought of counting whether the four hundred thousand millions of gr ains

duly appeared in the crop. However, Pencroft had thought of doing so , but

Cyrus Harding having told him that even if he managed to count three

hundred grains a minute, or nine thousand an hour, it would take him nearly

five thousand five-hundred years to finish his task, the honest sail or

considered it best to give up the idea.

The weather was splendid, the temperature very warm in the day time, but

in the evening the sea-breezes tempered the heat of the atmosphere and

procured cool nights for the inhabitants of Granite House. There were,

however, a few storms, which, although they were not of long duratio n,

swept over Lincoln Island with extraordinary fury. The lightning blazed and

the thunder continued to roll for some hours.

At this period the little colony was extremely prosperous.

The tenants of the poultry-yard swarmed, and they lived on the surpl us,

but it became necessary to reduce the population to a more moderate number.

The pigs had already produced young, and it may be understood that their

care for these animals absorbed a great part of Neb and Pencroft's time.

The onagers, who had two pretty colts, were most often mounted by Gi deon

Spilett and Herbert, who had become an excellent rider under the reporter's

instruction, and they also harnessed them to the cart either for carrying

wood and coal to Granite House, or different mineral productions required

by the engineer.

Several expeditions were made about this time into the depths of the Far

West Forests. The explorers could venture there without having anyth ing to

fear from the heat, for the sun's rays scarcely penetrated through the

thick foliage spreading above their heads. They thus visited all the left

bank of the Mercy, along which ran the road from the corral to the $\ensuremath{\mathtt{m}}$ outh of

Falls River.

But in these excursions the settlers took care to be well armed, for they

met with savage wild boars, with which they often had a tussle. They also,

during this season, made fierce war against the jaguars. Gideon Spil ett had

vowed a special hatred against them, and his pupil Herbert seconded him

well. Armed as they were, they no longer feared to meet one of those

beasts. Herbert's courage was superb, and the reporter's sang-froid astonishing. Already twenty magnificent skins ornamented the dining-

room of

Granite House, and if this continued, the jaguar race would soon be extinct

in the island, the object aimed at by the hunters.

The engineer sometimes took part in the expeditions made to the unknown

parts of the island, which he surveyed with great attention. It was for

other traces than those of animals that he searched the thickets of the

vast forest, but nothing suspicious ever appeared. Neither Top nor Jup, who

accompanied him, ever betrayed by their behavior that there was anything

strange there, and yet more than once again the dog barked at the mo uth of

the well, which the engineer had before explored without result.

At this time Gideon Spilett, aided by Herbert, took several views of the

most picturesque parts of the island, by means of the photographic apparatus found in the cases, and of which they had not as yet made any

use.

This apparatus, provided with a powerful object-glass, was very complete.

Substances necessary for the photographic reproduction, collodion for r

preparing the glass plate, nitrate of silver to render it sensitive,

hyposulfate of soda to fix the prints obtained, chloride of ammonium in

which to soak the paper destined to give the positive proof, acetate of

soda and chloride of gold in which to immerse the paper, nothing was

wanting. Even the papers were there, all prepared, and before laying in the

printing-frame upon the negatives, it was sufficient to soak them for a few

minutes in the solution of nitrate of silver.

The reporter and his assistant became in a short time very skilful operators, and they obtained fine views of the country, such as the island,

taken from Prospect Heights with Mount Franklin in the distance, the mouth

of the Mercy, so picturesquely framed in high rocks, the glade and the

corral, with the spurs of the mountain in the background, the curiou $\ensuremath{\mathbf{s}}$

development of Claw Cape, Flotsam Point, etc.

Nor did the photographers forget to take the portraits of all the

inhabitants of the island, leaving out no one.

"It multiplies us," said Pencroft.

And the sailor was enchanted to see his own countenance, faithfully reproduced, ornamenting the walls of Granite House, and he stopped as

willingly before this exhibition as he would have done before the richest

shop-windows in Broadway.

But it must be acknowledged that the most successful portrait was incontestably that of Master Jup. Master Jup had sat with a gravity not to

be described, and his portrait was lifelike!

"He looks as if he was just going to grin!" exclaimed Pencroft.

And if Master Jup had not been satisfied, he would have been very difficult to please; but he was quite contented and contemplated his own

countenance with a sentimental air which expressed some small amount of conceit.

The summer heat ended with the month of March. The weather was sometimes

rainy, but still warm. The month of March, which corresponds to the September of northern latitudes, was not so fine as might have been hoped.

Perhaps it announced an early and rigorous winter.

It might have been supposed one morning--the 21 st--that the first s now

had already made its appearance. In fact Herbert looking early from one of

the windows of Granite House, exclaimed, --

"Hallo! the islet is covered with snow!"

"Snow at this time?" answered the reporter, joining the boy.

Their companions were soon beside them, but could only ascertain one

thing, that not only the islet but all the beach below Granite House was

covered with one uniform sheet of white.

"It must be snow!" said Pencroft.

"Or rather it's very like it!" replied Neb.

"But the thermometer marks fifty-eight degrees!" observed Gideon Spilett.

Cyrus Harding gazed at the sheet of white without saying anything, f

or he

really did not know how to explain this phenomenon, at this time of year

and in such a temperature.

"By Jove!" exclaimed Pencroft, "all our plants will be frozen!"

And the sailor was about to descend, when he was preceded by the nim ble

Jup, who slid down to the sand.

But the orang had not touched the ground, when the snowy sheet arose and

dispersed in the air in such innumerable flakes that the light of the sun

was obscured for some minutes.

"Birds!" cried Herbert.

They were indeed swarms of sea-birds, with dazzling white plumage. They

had perched by thousands on the islet and on the shore, and they disappeared in the distance, leaving the colonists amazed as if they had

been present at some transformation scene, in which summer succeeded winter

at the touch of a fairy's wand. Unfortunately the change had been so

sudden, that neither the reporter nor the lad had been able to bring down

one of these birds, of which they could not recognize the species.

A few days after came the 26th of March, the day on which, two years before, the castaways from the air had been thrown upon Lincoln Island.

Chapter 19

Two years already! and for two years the colonists had had no commun ication

with their fellow-creatures! They were without news from the civiliz ed

world, lost on this island, as completely as if they had been on the most

minute star of the celestial hemisphere!

What was now happening in their country? The picture of their native land

was always before their eyes, the land torn by civil war at the time they

left it, and which the Southern rebellion was perhaps still staining with

blood! It was a great sorrow to them, and they often talked together of

these things, without ever doubting however that the cause of the North

must triumph, for the honor of the American Confederation.

During these two years not a vessel had passed in sight of the islan d;

or, at least, not a sail had been seen. It was evident that Lincoln Island

was out of the usual track, and also that it was unknown, -- as was be sides

proved by the maps, -- for though there was no port, vessels might hav e

visited it for the purpose of renewing their store of water. But the

surrounding ocean was deserted as far as the eye could reach, and the

colonists must rely on themselves for regaining their native land.

However, one chance of rescue existed, and this chance was discussed one

day on the first week of April, when the colonists were gathered tog ether

in the dining-room of Granite House.

They had been talking of America, of their native country, which the y had so little hope of ever seeing again.

"Decidedly we have only one way, said Spilett, "one single way for leaving Lincoln Island, and that is, to build a vessel large enough to sail

several hundred miles. It appears to me, that when one has built a b oat it

is just as easy to build a ship!"

"And in which we might go to the Pomoutous," added Herbert, "just as easily as we went to Tabor Island."

"I do not say no," replied Pencroft, who had always the casting vote in

maritime questions; "I do not say no, although it is not exactly the same

thing to make a long as a short voyage! If our little craft had been caught

in any heavy gale of wind during the voyage to Tabor Island, we should have

known that land was at no great distance either way; but twelve hund red

miles is a pretty long way, and the nearest land is at least that distance!"

"Would you not, in that case, Pencroft, attempt the adventure?" aske d the reporter.

- "I will attempt anything that is desired, Mr. Spilett," answered the sailor, "and you know well that I am not a man to flinch!"
- "Remember, besides, that we number another sailor amongst us now," remarked Neb.
- "Who is that?" asked Pencroft.
- "Ayrton."
- "If he will consent to come," said Pencroft.
- "Nonsense!" returned the reporter; "do you think that if Lord Glenar van's
- yacht had appeared at Tabor Island, while he was still living there, Ayrton

would have refused to depart?"

- "You forget, my friends," then said Cyrus Harding, "that Ayrton was not
- in possession of his reason during the last years of his stay there. But
- that is not the question. The point is to know if we may count among our
- chances of being rescued, the return of the Scotch vessel. Now, Lord
- Glenarvan promised Ayrton that he would return to take him off from Tabor
- Island when he considered that his crimes were expiated, and I belie ve that

he will return."

- "Yes," said the reporter, "and I will add that he will return soon, for
- it is twelve years since Ayrton was abandoned."
- "Well!" answered Pencroft, "I agree with you that the nobleman will return, and soon too. But where will he touch? At Tabor Island, and not at

Lincoln Island."

- "That is the more certain," replied Herbert, "as Lincoln Island is n ot
- even marked on the map."
- "Therefore, my friends," said the engineer, "we ought to take the necessary precautions for making our presence and that of Ayrton on Lincoln

Island known at Tabor Island."

- "Certainly," answered the reporter, "and nothing is easier than to p lace
- in the hut, which was Captain Grant's and Ayrton's dwelling, a notic e which
- Lord Glenarvan and his crew cannot help finding, giving the position

of our island."

"It is a pity," remarked the sailor, "that we forgot to take that precaution on our first visit to Tabor Island."

"And why should we have done it?" asked Herbert. "At that time we did not

know Ayrton's history; we did not know that any one was likely to co me some

day to fetch \mbox{him} , and when we did know $\mbox{his history}$, the season was too

advanced to allow us to return then to Tabor Island."

"Yes," replied Harding, "it was too late, and we must put off the vo yage until next spring."

"But suppose the Scotch yacht comes before that," said Pencroft.

"That is not probable," replied the engineer, "for Lord Glenarvan would

not choose the winter season to venture into these seas. Either he h as

already returned to Tabor Island, since Ayrton has been with us, that is to

say, during the last five months and has left again; or he will not come

till later, and it will be time enough in the first fine October day s to go

to Tabor Island, and leave a notice there."

"We must allow," said Neb, "that it will be very unfortunate if the 'Duncan' has returned to these parts only a few months ago!"

"I hope that it is not so," replied Cyrus Harding, "and that Heaven has not deprived us of the best chance which remains to us."

"I think," observed the reporter, "that at any rate we shall know wh at we

have to depend on when we have been to Tabor Island, for if the yach t has

returned there, they will necessarily have left some traces of their

visit."

"That is evident," answered the engineer. "So then, my friends, sinc e we

have this chance of returning to our country, we must wait patiently , and

if it is taken from us we shall see what will be best to do."

"At any rate," remarked Pencroft, "it is well understood that if we do

leave Lincoln Island, it will not be because we were uncomfortable t

here!"

"No, Pencroft," replied the engineer, "it will be because we are far from

all that a man holds dearest in the world, his family, his friends, his

native land!"

Matters being thus decided, the building of a vessel large enough to sail

either to the Archipelagoes in the north, or to New Zealand in the w est, was

no longer talked of, and they busied themselves in their accustomed occupations, with a view to wintering a third time in Granite House.

However, it was agreed that before the stormy weather came on, their

little vessel should be employed in making a voyage round the island $^{\mathtt{A}}$

complete survey of the coast had not yet been made, and the colonist s had

but an imperfect idea of the shore to the west and north, from the mouth of

Falls River to the Mandible Capes, as well as of the narrow bay between

them, which opened like a shark's jaws.

The plan of this excursion was proposed by Pencroft, and Cyrus Harding

fully acquiesced in it, for he himself wished to see this part of his domain.

The weather was variable, but the barometer did not fluctuate by sud den

movements, and they could therefore count on tolerable weather. However,

during the first week of April, after a sudden barometrical fall, a renewed

rise was marked by a heavy gale of wind, lasting five or six days; then the

needle of the instrument remained stationary at a height of twenty-n ine

inches and nine-tenths, and the weather appeared propitious for an excursion.

The departure was fixed for the 16th of April, and the "Bonadventure,"

anchored in Port Balloon, was provisioned for a voyage which might be of

some duration.

Cyrus Harding informed Ayrton of the projected expedition, and proposed

that he should take part in it, but Ayrton preferring to remain on s

hore,

it was decided that he should come to Granite House during the absence of

his companions. Master Jup was ordered to keep him company, and made no

remonstrance.

On the morning of the 16th of April all the colonists, including Top .

embarked. A fine breeze blew from the south-west, and the "Bonadvent ure"

tacked on leaving Port Balloon so as to reach Reptile End. Of the ninety

miles which the perimeter of the island measured, twenty included the south

coast between the port and the promontory. The wind being right ahea d it

was necessary to hug the shore.

It took the whole day to reach the promontory, for the vessel on leaving

port had only two hours of ebb tide and had therefore to make way for six

hours against the flood. It was nightfall before the promontory was doubled.

The sailor then proposed to the engineer that they should continue sailing slowly with two reefs in the sail. But Harding preferred to anchor

a few cable-lengths from the shore, so as to survey that part of the coast

during the day. It was agreed also that as they were anxious for a minute

exploration of the coast they should not sail during the night, but would

always, when the weather permitted it, be at anchor near the shore.

The night was passed under the promontory, and the wind having falle n,

nothing disturbed the silence. The passengers, with the exception of the

sailor, scarcely slept as well on board the "Bonadventure" as they would

have done in their rooms at Granite House, but they did sleep howeve r.

Pencroft set sail at break of day, and by going on the larboard tack they

could keep close to the shore.

The colonists knew this beautiful wooded coast, since they had already

explored it on foot, and yet it again excited their admiration. They

coasted along as close in as possible, so as to notice everything, a voiding

always the trunks of trees which floated here and there. Several tim

es also

they anchored, and Gideon Spilett took photographs of the superb scenery.

About noon the "Bonadventure" arrived at the mouth of Falls River. Beyond, on the left bank, a few scattered trees appeared, and three miles

further even these dwindled into solitary groups among the western s purs of

the mountain, whose arid ridge sloped down to the shore.

What a contrast between the northern and southern part of the coast! In

proportion as one was woody and fertile so was the other rugged and barren!

It might have been designated as one of those iron coasts, as they a re

called in some countries, and its wild confusion appeared to indicat e that

a sudden crystallization had been produced in the yet liquid basalt of some

distant geological sea. These stupendous masses would have terrified the

settlers if they had been cast at first on this part of the island! They

had not been able to perceive the sinister aspect of this shore from the

summit of Mount Franklin, for they overlooked it from too great a he ight,

but viewed from the sea it presented a wild appearance which could n ot

perhaps be equaled in any corner of the globe.

The "Bonadventure" sailed along this coast for the distance of half a

mile. It was easy to see that it was composed of blocks of all sizes , from

twenty to three hundred feet in height, and of all shapes, round lik e

towers, prismatic like steeples, pyramidal like obelisks, conical like

factory chimneys. An iceberg of the Polar seas could not have been more

capricious in its terrible sublimity! Here, bridges were thrown from one

rock to another; there, arches like those of a wave, into the depths of

which the eye could not penetrate; in one place, large vaulted excavations

presented a monumental aspect; in another, a crowd of columns, spire s, and

arches, such as no Gothic cathedral ever possessed. Every caprice of

nature, still more varied than those of the imagination, appeared on this

grand coast, which extended over a length of eight or nine miles.

Cyrus Harding and his companions gazed, with a feeling of surprise bordering on stupefaction. But, although they remained silent, Top, not

being troubled with feelings of this sort, uttered barks which were repeated by the thousand echoes of the basaltic cliff. The engineer even

observed that these barks had something strange in them, like those which

the dog had uttered at the mouth of the well in Granite House.

"Let us go close in, " said he.

And the "Bonadventure" sailed as near as possible to the rocky shore .

Perhaps some cave, which it would be advisable to explore, existed there?

But Harding saw nothing, not a cavern, not a cleft which could serve as a

retreat to any being whatever, for the foot of the cliff was washed by the

surf. Soon Top's barks ceased, and the vessel continued her course a t a few

cables-length from the coast.

In the northwest part of the island the shore became again flat and sandy. A few trees here and there rose above a low, marshy ground, w hich

the colonists had already surveyed, and in violent contrast to the other

desert shore, life was again manifested by the presence of myriads o ${\sf f}$

water-fowl. That evening the "Bonadventure" anchored in a small bay to the

north of the island, near the land, such was the depth of water ther e. The

night passed quietly, for the breeze died away with the last light of day,

and only rose again with the first streaks of dawn.

As it was easy to land, the usual hunters of the colony, that is to say,

Herbert and Gideon Spilett, went for a ramble of two hours or so, an

returned with several strings of wild duck and snipe. Top had done w onders,

and not a bird had been lost, thanks to his zeal and cleverness.

At eight o'clock in the morning the "Bonadventure" set sail, and ran

rapidly towards North Mandible Cape, for the wind was right astern a nd

freshening rapidly.

"However," observed Pencroft, "I should not be surprised if a gale c ame

up from the west. Yesterday the sun set in a very red-looking horizo \mathbf{n} , and

now, this morning, those mares-tails don't forbode anything good."

These mares-tails are cirrus clouds, scattered in the zenith, their height from the sea being less than five thousand feet. They look like

light pieces of cotton wool, and their presence usually announces so me

sudden change in the weather.

"Well," said Harding, "let us carry as much sail as possible, and ru n for shelter into Shark Gulf. I think that the 'Bonadventure' will be saf

there."

"Perfectly," replied Pencroft, "and besides, the north coast is mere ly sand, very uninteresting to look at."

"I shall not be sorry," resumed the engineer, "to pass not only to-n ight $% \left(1\right) =\left(1\right) +\left(1\right) +$

but to-morrow in that bay, which is worth being carefully explored."

"I think that we shall be obliged to do so, whether we like it or no t,"

answered Pencroft, "for the sky looks very threatening towards the west.

Dirty weather is coming on!"

"At any rate we have a favorable wind for reaching Cape Mandible," observed the reporter.

"A very fine wind," replied the sailor; "but we must tack to enter the

gulf, and I should like to see my way clear in these unknown quarter s."

"Quarters which appear to be filled with rocks," added Herbert, "if we

judge by what we saw on the south coast of Shark Gulf."

"Pencroft," said Cyrus Harding, "do as you think best, we will leave it to you."

"Don't make your mind uneasy, captain," replied the sailor, "I shall not.

expose myself needlessly! I would rather a knife were run into my ri bs than

a sharp rock into those of my 'Bonadventure!'"

That which Pencroft called ribs was the pan of his vessel under water,

and he valued it more than his own skin.

"What o'clock is it?" asked Pencroft.

"Ten o'clock," replied Gideon Spilett.

"And what distance is it to the Cape, captain?"

"About fifteen miles," replied the engineer.

"That's a matter of two hours and a half," said the sailor, "and we shall

be off the Cape between twelve and one o'clock. Unluckily, the tide will be

turning at that moment, and will be ebbing out of the gulf. I am afr aid

that it will be very difficult to get in, having both wind and tide against us."

"And the more so that it is a full moon to-day," remarked Herbert, " and

these April tides are very strong."

"Well, Pencroft," asked Harding, "can you not anchor off the Cape?"

"Anchor near land, with bad weather coming on!" exclaimed the sailor .

"What are you thinking of, captain? We should run aground, of a cert ainty!"

"What will you do then?"

"I shall try to keep in the offing until the flood, that is to say, till

about seven in the evening, and if there is still light enough I wil l try

to enter the gulf; if not, we must stand off and on during the night , and $% \left(1\right) =\left(1\right) +\left(1\right)$

we will enter to-morrow at sunrise."

"As I told you, Pencroft, we will leave it to you," answered Harding.

"Ah!" said Pencroft, "if there was only a lighthouse on the coast, i t would be much more convenient for sailors."

"Yes," replied Herbert, "and this time we shall have no obliging engineer

to light a fire to guide us into port!"

"Why, indeed, my dear Cyrus," said Spilett, "we have never thanked you;

but frankly, without that fire we should never have been able--"

"A fire?" asked Harding, much astonished at the reporter's words.

"We mean, captain," answered Pencroft, "that on board the 'Bonadvent ure'

we were very anxious during the few hours before our return, and we should

have passed to windward of the island, if it had not been for the precaution you took of lighting a fire the night of the 19th of October, on

Prospect Heights."

"Yes, yes! That was a lucky idea of mine!" replied the engineer.

"And this time," continued the sailor. "unless the idea occurs to Ay rton,

there will be no one to do us that little service!"

"No! No one!" answered Cyrus Harding.

A few minutes after, finding himself alone in the bows of the vessel, with the reporter, the engineer bent down and whispered,--

"If there is one thing certain in this world, Spilett, it is that I never

lighted any fire during the night of the 19th of October, neither on

Prospect Heights nor on any other part of the island!"

Chapter 20

Things happened as Pencroft had predicted, he being seldom mistaken in his

prognostications. The wind rose, and from a fresh breeze it soon increased

to a regular gale; that is to say, it acquired a speed of from forty to

forty-five miles an hour, before which a ship in the open sea would have

run under close-reefed topsails. Now, as it was nearly six o'clock \boldsymbol{w} hen the

"Bonadventure" reached the gulf, and as at that moment the tide turn ed, it

was impossible to enter. They were therefore compelled to stand off, for

even if he had wished to do so, Pencroft could not have gained the ${\tt m}$ outh of

the Mercy. Hoisting the jib to the mainmast by way of a storm-sail, he hove

to, putting the head of the vessel towards the land.

Fortunately, although the wind was strong the sea, being sheltered by the $\ensuremath{\mathsf{y}}$

land, did not run very high. They had then little to fear from the w aves,

which always endanger small craft. The "Bonadventure" would doubtles sly not

have capsized, for she was well ballasted, but enormous masses of water

falling on the deck might injure her if her timbers could not sustain them.

Pencroft, as a good sailor, was prepared for anything. Certainly, he had

great confidence in his vessel, but nevertheless he awaited the return of

day with some anxiety.

During the night, Cyrus Harding and Gideon Spilett had no opportunit y for

talking together, and yet the words pronounced in the reporter's ear by the

engineer were well worth being discussed, together with the mysterious

influence which appeared to reign over Lincoln Island. Gideon Spilet t did

not cease from pondering over this new and inexplicable incident, the

appearance of a fire on the coast of the island. The fire had actual ly been

seen! His companions, Herbert and Pencroft, had seen it with him! The fire

had served to signalize the position of the island during that dark night,

and they had not doubted that it was lighted by the engineer's hand; and

here was Cyrus Harding expressly declaring that he had never done an ything

of the sort! Spilett resolved to recur to this incident as soon as the

"Bonadventure" returned, and to urge Cyrus Harding to acquaint their

companions with these strange facts. Perhaps it would be decided to make in

common a complete investigation of every part of Lincoln Island.

However that might be, on this evening no fire was lighted on these yet

unknown shores, which formed the entrance to the gulf, and the little

vessel stood off during the night.

When the first streaks of dawn appeared in the western horizon, the wind,

which had slightly fallen, shifted two points, and enabled Pencroft to

enter the narrow gulf with greater ease. Towards seven o'clock in the

morning, the "Bonadventure," weathering the North Mandible Cape, entered

the strait and glided on to the waters, so strangely enclosed in the frame

of lava.

"Well," said Pencroft, "this bay would make admirable roads, in which a whole fleet could lie at their ease!"

"What is especially curious," observed Harding, "is that the gulf has

been formed by two rivers of lava, thrown out by the volcano, and accumulated by successive eruptions. The result is that the gulf is completely sheltered on all sides, and I believe that even in the st ormiest

weather, the sea here must be as calm as a lake."

"No doubt," returned the sailor, "since the wind has only that narro $\ensuremath{\mathtt{w}}$

entrance between the two capes to get in by, and, besides, the north cape

protects that of the south in a way which would make the entrance of qusts

very difficult. I declare our 'Bonadventure' could stay here from on e end

of the year to the other, without even dragging at her anchor!"

"It is rather large for her!" observed the reporter.

"Well! Mr. Spilett," replied the sailor, "I agree that it is too lar ge

for the 'Bonadventure,' but if the fleets of the Union were in want of a

harbor in the Pacific, I don't think they would ever find a better p lace

than this!"

"We are in the shark's mouth," remarked Nab, alluding to the form of the gulf.

"Right into its mouth, my honest Nab!" replied Herbert, "but you are not

afraid that it will shut upon us, are you?"

"No, Mr. Herbert," answered Neb, "and yet this gulf here doesn't ple ase me much! It has a wicked look!"

"Hallo!" cried Pencroft, "here is Neb turning up his nose at my gulf, just as I was thinking of presenting it to America!"

"But, at any rate, is the water deep enough?" asked the engineer, "for a

depth sufficient for the keel of the 'Bonadventure' would not be enough for

those of our iron-clads."

"That is easily found out," replied Pencroft.

And the sailor sounded with a long cord, which served him as a lead-line,

and to which was fastened a lump of iron. This cord measured nearly fifty

fathoms, and its entire length was unrolled without finding any bott om.

"There," exclaimed Pencroft, "our iron-clads can come here after all! They would not run aground!"

"Indeed," said Gideon Spilett, "this gulf is a regular abyss, but, taking

into consideration the volcanic origin of the island, it is not asto nishing

that the sea should offer similar depressions."

"One would say too," observed Herbert, "that these cliffs were perfectly $% \left(\frac{1}{2}\right) =0$

perpendicular; and I believe that at their foot, even with a line five or

six times longer, Pencroft would not find bottom."

"That is all very well," then said the reporter, "but I must point out to

Pencroft that his harbor is wanting in one very important respect!"

"And what is that, Mr. Spilett?"

"An opening, a cutting of some sort, to give access to the interior of

the island. I do not see a spot on which we could land." And, in fac t, the

steep lava cliffs did not afford a single place suitable for landing . They

formed an insuperable barrier, recalling, but with more wildness, the

fiords of Norway. The "Bonadventure," coasting as close as possible along

the cliffs, did not discover even a projection which would allow the passengers to leave the deck.

Pencroft consoled himself by saying that with the help of a mine the Y

could soon open out the cliff when that was necessary, and then, as there

was evidently nothing to be done in the gulf, he steered his vessel towards

the strait and passed out at about two o'clock in the afternoon.

"Ah!" said Nab, uttering a sigh of satisfaction.

One might really say that the honest Negro did not feel at his ease

in those enormous jaws.

The distance from Mandible Cape to the mouth of the Mercy was not more

than eight miles. The head of the "Bonadventure" was put towards Gra nite

House, and a fair wind filling her sails, she ran rapidly along the coast.

To the enormous lava rocks succeeded soon those capricious sand dune s, among which the engineer had been so singularly recovered, and which seabirds frequented in thousands.

About four o'clock, Pencroft leaving the point of the islet on his left,

entered the channel which separated it from the coast, and at five o 'clock

the anchor of the "Bonadventure" was buried in the sand at the mouth of

the Mercy.

The colonists had been absent three days from their dwelling. Ayrton was

waiting for them on the beach, and Jup came joyously to meet them, giving

vent to deep grunts of satisfaction.

A complete exploration of the coast of the island had now been made, and

no suspicious appearances had been observed. If any mysterious being

resided on it, it could only be under cover of the impenetrable fore st of

the Serpentine Peninsula, to which the colonists had not yet directe d their

investigations.

Gideon Spilett discussed these things with the engineer, and it was agreed that they should direct the attention of their companions to the

strange character of certain incidents which had occurred on the isl and,

and of which the last was the most unaccountable.

However, Harding, returning to the fact of a fire having been kindle d on

the shore by an unknown hand, could not refrain from repeating for the

twentieth time to the reporter, --

"But are you quite sure of having seen it? Was it not a partial erup tion

of the volcano, or perhaps some meteor?"

"No, Cyrus," answered the reporter, "it was certainly a fire lighted by

the hand of man. Besides; question Pencroft and Herbert. They saw it as I

saw it myself, and they will confirm my words."

In consequence, therefore, a few days after, on the 25th of April, in the

evening, when the settlers were all collected on Prospect Heights, C yrus

Harding began by saying, --

"My friends, I think it my duty to call your attention to certain incidents which have occurred in the island, on the subject of which I shall be happy to have your advice. These incidents are, so to speak, supernatural--"

"Supernatural!" exclaimed the sailor, emitting a volume of smoke from his mouth. "Can it be possible that our island is supernatural?"

"No, Pencroft, but mysterious, most certainly," replied the engineer;
"unless you can explain that which Spilett and I have until now fail ed to understand."

"Speak away, captain," answered the sailor.

"Well, have you understood," then said the engineer, "how was it that tafter falling into the sea, I was found a quarter of a mile into the interior of the island, and that, without my having any consciousnes s of my removal there?"

"Unless, being unconscious -- " said Pencroft.

"That is not admissible," replied the engineer. "But to continue. Ha ve you understood how Top was able to discover your retreat five miles from the cave in which I was lying?"

"The dog's instinct--" observed Herbert.

"Singular instinct!" returned the reporter, "since notwithstanding the storm of rain and wind which was raging during that night, Top arrived at the Chimneys, dry and without a speck of mud!"

"Let us continue," resumed the engineer. "Have you understood how our dog

was so strangely thrown up out of the water of the lake, after his struggle

with the dugong?"

"No! I confess, not at all," replied Pencroft, "and the wound which the

dugong had in its side, a wound which seemed to have been made with a sharp

instrument; that can't be understood, either."

"Let us continue again," said Harding. "Have you understood, my friends,

how that bullet got into the body of the young peccary; how that cas e

happened to be so fortunately stranded, without there being any trac e of a

wreck; how that bottle containing the document presented itself so opportunely, during our first sea-excursion; how our canoe, having b roken

its moorings, floated down the current of the Mercy and rejoined us at the

very moment we needed it; how after the ape invasion the ladder was so

obligingly thrown down from Granite House; and lastly, how the document,

which Ayrton asserts was never written by him, fell into our hands?"

As Cyrus Harding thus enumerated, without forgetting one, the singular

incidents which had occurred in the island, Herbert, Neb, and Pencroft

stared at each other, not knowing what to reply, for this succession of

incidents, grouped thus for the first time, could not but excite the ir

surprise to the highest degree.

"'Pon my word," said Pencroft at last, "you are right, captain, and it is

difficult to explain all these things!"

"Well, my friends," resumed the engineer, "a last fact has just been added to these, and it is no less incomprehensible than the others!"

"What is it, captain?" asked Herbert quickly.

"When you were returning from Tabor Island, Pencroft," continued the engineer, "you said that a fire appeared on Lincoln Island?"

"Certainly," answered the sailor.

"And you are quite certain of having seen this fire?"

"As sure as I see you now."

"You also, Herbert?"

"Why, captain," cried Herbert, "that fire was blazing like a star of the

first magnitude!"

"But was it not a star?" urged the engineer.

"No," replied Pencroft, "for the sky was covered with thick clouds, and

at any rate a star would not have been so low on the horizon. But ${\tt Mr}$.

Spilett saw it as well as we, and he will confirm our words."

"I will add," said the reporter, "that the fire was very bright, and that

it shot up like a sheet of lightning."

"Yes, yes! exactly," added Herbert, "and it was certainly placed on the

heights of Granite House."

"Well, my friends," replied Cyrus Harding, "during the night of the 19th

of October, neither Neb nor I lighted any fire on the coast."

"You did not!" exclaimed Pencroft, in the height of his astonishment, not

being able to finish his sentence.

"We did not leave Granite House," answered Cyrus Harding, "and if a fire

appeared on the coast, it was lighted by another hand than ours!"

Pencroft, Herbert, and Neb were stupefied. No illusion could be possible,

and a fire had actually met their eyes during the night of the 19th of

October. Yes! they had to acknowledge it, a mystery existed! An inexplicable influence, evidently favorable to the colonists, but very

irritating to their curiosity, was executed always in the nick of time on

Lincoln Island. Could there be some being hidden in its profoundest recesses? It was necessary at any cost to ascertain this.

Harding also reminded his companions of the singular behavior of Top and

Jup when they prowled round the mouth of the well, which placed Gran ite

House in communication with the sea, and he told them that he had ex

plored

the well, without discovering anything suspicious. The final resolve taken,

in consequence of this conversation, by all the members of the colon y, was

that as soon as the fine season returned they would thoroughly search the $\,$

whole of the island.

But from that day Pencroft appeared to be anxious. He felt as if the

island which he had made his own personal property belonged to him e ntirely

no longer, and that he shared it with another master, to whom, willing or

not, he felt subject. Neb and he often talked of those unaccountable

things, and both, their natures inclining them to the marvelous, wer e not

far from believing that Lincoln Island was under the dominion of som e

supernatural power.

In the meanwhile, the bad weather came with the month of May, the November of the northern zones. It appeared that the winter would be severe

and forward. The preparations for the winter season were therefore commenced without delay.

Nevertheless, the colonists were well prepared to meet the winter, however hard it might be. They had plenty of felt clothing, and the musmons, very numerous by this time, had furnished an abundance of wool

necessary for the manufacture of this warm material.

It is unnecessary to say that Ayrton had been provided with this comfortable clothing. Cyrus Harding proposed that he should come to spend

the bad season with them in Granite House, where he would be better lodged

than at the corral, and Ayrton promised to do so, as soon as the las

at the corral was finished. He did this towards the middle of April. From

that time Ayrton shared the common life, and made himself useful on all

occasions; but still humble and sad, he never took part in the pleas ures of

his companions.

For the greater part of this, the third winter which the settlers passed

in Lincoln Island, they were confined to Granite House. There were many

violent storms and frightful tempests, which appeared to shake the rocks to

their very foundations. Immense waves threatened to overwhelm the is land,

and certainly any vessel anchored near the shore would have been das hed to

pieces. Twice, during one of these hurricanes, the Mercy swelled to such a

degree as to give reason to fear that the bridges would be swept away, and

it was necessary to strengthen those on the shore, which disappeared under

the foaming waters, when the sea beat against the beach.

It may well be supposed that such storms, comparable to water-spouts in

which were mingled rain and snow, would cause great havoc on the plateau of

Prospect Heights. The mill and the poultry-yard particularly suffere d. The

colonists were often obliged to make immediate repairs, without which the

safety of the birds would have been seriously threatened.

During the worst weather, several jaguars and troops of quadrumana ventured to the edge of the plateau, and it was always to be feared that

the most active and audacious would, urged by hunger, manage to cros s the

stream, which besides, when frozen, offered them an easy passage.

Plantations and domestic animals would then have been infallibly des troyed,

without a constant watch, and it was often necessary to make use of the

guns to keep those dangerous visitors at a respectful distance. Occu pation

was not wanting to the colonists, for without reckoning their out-do or

cares, they had always a thousand plans for the fitting up of $\ensuremath{\mathsf{Granit}}$ e

House.

They had also some fine sporting excursions, which were made during the

frost in the vast Tadorn Marsh. Gideon Spilett and Herbert, aided by Jup

and Top, did not miss a shot in the midst of myriads of wild-duck, s nipe,

teal, and others. The access to these hunting-grounds was easy; besides,

whether they reached them by the road to Port Balloon, after having passed

the Mercy Bridge, or by turning the rocks from Flotsam Point, the hunters

were never distant from Granite House more than two or three miles.

Thus passed the four winter months, which were really rigorous, that is

to say, June, July, August, and September. But, in short, Granite House did

not suffer much from the inclemency of the weather, and it was the same

with the corral, which, less exposed than the plateau, and sheltered partly

by Mount Franklin, only received the remains of the hurricanes, already

broken by the forests and the high rocks of the shore. The damages there

were consequently of small importance, and the activity and skill of Ayrton

promptly repaired them, when some time in October he returned to pas s a few

days in the corral.

During this winter, no fresh inexplicable incident occurred. Nothing

strange happened, although Pencroft and Neb were on the watch for the most

insignificant facts to which they attached any mysterious cause. Top and

Jup themselves no longer growled round the well or gave any signs of

uneasiness. It appeared, therefore, as if the series of supernatural

incidents was interrupted, although they often talked of them during the

evenings in Granite House, and they remained thoroughly resolved that the

island should be searched, even in those parts the most difficult to

explore. But an event of the highest importance, and of which the consequences might be terrible, momentarily diverted from their projects

Cyrus Harding and his companions.

It was the month of October. The fine season was swiftly returning. Nature was reviving; and among the evergreen foliage of the conifera e which

formed the border of the wood, already appeared the young leaves of the

banksias, deodars, and other trees.

It may be remembered that Gideon Spilett and Herbert had, at differe nt

times, taken photographic views of Lincoln Island.

Now, on the 17th of this month of October, towards three o'clock in the

afternoon, Herbert, enticed by the charms of the sky, thought of reproducing Union Bay, which was opposite to Prospect Heights, from Cape

Mandible to Claw Cape.

The horizon was beautifully clear, and the sea, undulating under a s

oft

Granite House.

breeze, was as calm as the waters of a lake, sparkling here and ther e under the sun's rays.

The apparatus had been placed at one of the windows of the dining-room at

Granite House, and consequently overlooked the shore and the bay. He rbert

proceeded as he was accustomed to do, and the negative obtained, he went

away to fix it by means of the chemicals deposited in a dark nook of

Returning to the bright light, and examining it well, Herbert perceived

on his negative an almost imperceptible little spot on the sea horiz on. He $\,$

endeavored to make it disappear by reiterated washing, but could not accomplish it.

"It is a flaw in the glass," he thought.

And then he had the curiosity to examine this flaw with a strong magnifier which he unscrewed from one of the telescopes.

But he had scarcely looked at it, when he uttered a cry, and the gla ss almost fell from his hands.

aimose leli liom nis nands.

Immediately running to the room in which Cyrus Harding then was, he extended the negative and magnifier towards the engineer, pointing o ut the little spot.

Harding examined it; then seizing his telescope he rushed to the win dow.

The telescope, after having slowly swept the horizon, at last stoppe d on

the looked-for spot, and Cyrus Harding, lowering it, pronounced one word only,--

"A vessel!"

And in fact a vessel was in sight, off Lincoln Island!

PART 3

THE SECRET OF THE ISLAND

Chapter 1

It was now two years and a half since the castaways from the balloon had

been thrown on Lincoln Island, and during that period there had been no

communication between them and their fellow-creatures. Once the reporter

had attempted to communicate with the inhabited world by confiding to a

bird a letter which contained the secret of their situation, but that was a

chance on which it was impossible to reckon seriously. Ayrton, alone, under

the circumstances which have been related, had come to join the litt le

colony. Now, suddenly, on this day, the 17th of October, other men h ad

unexpectedly appeared in sight of the island, on that deserted sea!

There could be no doubt about it! A vessel was there! But would she pass

on, or would she put into port? In a few hours the colonists would definitely know what to expect.

Cyrus Harding and Herbert having immediately called Gideon Spilett, Pencroft, and Neb into the dining-room of Granite House, told them w hat had

happened. Pencroft, seizing the telescope, rapidly swept the horizon, and

stopping on the indicated point, that is to say, on that which had ${\tt m}$ ade the

almost imperceptible spot on the photographic negative, --

"I'm blessed but it is really a vessel!" he exclaimed, in a voice wh ich

did not express any great amount of satisfaction.

"Is she coming here?" asked Gideon Spilett.

"Impossible to say anything yet," answered Pencroft, "for her riggin

alone is above the horizon, and not a bit of her hull can be seen."

"What is to be done?" asked the lad.

"Wait," replied Harding.

And for a considerable time the settlers remained silent, given up to all

the thoughts, and the emotions, all the fears, all the hopes, which were

aroused by this incident -- the most important which had occurred sinc e their

arrival in Lincoln Island. Certainly, the colonists were not in the situation of castaways abandoned on a sterile islet, constantly cont

ending

against a cruel nature for their miserable existence, and incessantly

tormented by the longing to return to inhabited countries. Pencroft and

Neb, especially, who felt themselves at once so happy and so rich, would

not have left their island without regret. They were accustomed, besides,

to this new life in the midst of the domain which their intelligence had as

it were civilized. But at any rate this ship brought news from the w orld,

perhaps even from their native land. It was bringing fellow-creature s to

them, and it may be conceived how deeply their hearts were moved at the $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

sight!

From time to time Pencroft took the glass and rested himself at the window. From thence he very attentively examined the vessel, which was at a

distance of twenty miles to the east. The colonists had as yet, ther efore,

no means of signalizing their presence. A flag would not have been perceived; a gun would not have been heard; a fire would not have be en

visible. However, it was certain that the island, overtopped by Moun t

Franklin, could not escape the notice of the vessel's lookout. But w hy was

the ship coming there? Was it simple chance which brought it to that part

of the Pacific, where the maps mentioned no land except Tabor Island , which

itself was out of the route usually followed by vessels from the Polynesian

Archipelagoes, from New Zealand, and from the American coast? To this

question, which each one asked himself, a reply was suddenly made by

Herbert.

"Can it be the 'Duncan'?" he cried.

The "Duncan," as has been said, was Lord Glenarvan's yacht, which had

left Ayrton on the islet, and which was to return there someday to fetch

him. Now, the islet was not so far distant from Lincoln Island, but that a

vessel, standing for the one, could pass in sight of the other. A hundred

and fifty miles only separated them in longitude, and seventy in latitude.

"We must tell Ayrton," said Gideon Spilett, "and send for him immediately. He alone can say if it is the 'Duncan.'"

This was the opinion of all, and the reporter, going to the telegrap hic apparatus which placed the corral in communication with Granite House, sent this telegram:--"Come with all possible speed."

In a few minutes the bell sounded.

"I am coming," replied Ayrton.

Then the settlers continued to watch the vessel.

"If it is the 'Duncan,'" said Herbert, "Ayrton will recognize her without difficulty, since he sailed on board her for some time."

"And if he recognizes her," added Pencroft, "it will agitate him exceedingly!"

"Yes," answered Cyrus Harding; "but now Ayrton is worthy to return on board the 'Duncan,' and pray Heaven that it is indeed Lord Glenarvan 's yacht, for I should be suspicious of any other vessel. These are ill-famed seas, and I have always feared a visit from Malay pirates to our isl and."

"We could defend it,', cried Herbert.

"No doubt, my boy," answered the engineer smiling, "but it would be better not to have to defend it."

"A useless observation," said Spilett. "Lincoln Island is unknown to

navigators, since it is not marked even on the most recent maps. Do you

think, Cyrus, that that is a sufficient motive for a ship, finding herself

unexpectedly in sight of new land, to try and visit rather than avoid it?"

"Certainly," replied Pencroft.

"I think so too," added the engineer. "It may even be said that it is the duty of a captain to come and survey any land or island not yet know n, and

Lincoln Island is in this position."

"Well," said Pencroft, "suppose this vessel comes and anchors there a few cables-lengths from our island, what shall we do?"

This sudden question remained at first without any reply. But Cyrus Harding, after some moments' thought, replied in the calm tone which was

usual to him, --

"What we shall do, my friends? What we ought to do is this: --we will

communicate with the ship, we will take our passage on board her, an d we

will leave our island, after having taken possession of it in the name of

the United States. Then we will return with any who may wish to foll ow us

to colonize it definitely, and endow the American Republic with a us eful

station in this part of the Pacific Ocean!"

"Hurrah!" exclaimed Pencroft, "and that will be no small present which we

shall make to our country! The colonization is already almost finish ed;

names are given to every part of the island; there is a natural port , fresh

water, roads, a telegraph, a dockyard, and manufactories; and there will be

nothing to be done but to inscribe Lincoln Island on the maps!"

"But if anyone seizes it in our absence?" observed Gideon Spilett.

"Hang it!" cried the sailor. "I would rather remain all alone to guard

it: and trust to Pencroft, they shouldn't steal it from him, like a watch

from the pocket of a swell!"

For an hour it was impossible to say with any certainty whether the vessel was or was not standing towards Lincoln Island. She was neare r, but

in what direction was she sailing? This Pencroft could not determine

However, as the wind was blowing from the northeast, in all probabil ity the

vessel was sailing on the starboard tack. Besides, the wind was favorable

for bringing her towards the island, and, the sea being calm, she would not

be afraid to approach although the shallows were not marked on the chart.

Towards four o'clock--an hour after he had been sent for--Ayrton arrived at

Granite House. He entered the dining-room saying, --

"At your service, gentlemen."

Cyrus Harding gave him his hand, as was his custom to do, and, leadi

ng him to the window,--

"Ayrton," said he, "we have begged you to come here for an important reason. A ship is in sight of the island."

Ayrton at first paled slightly, and for a moment his eyes became dim; then, leaning out the window, he surveyed the horizon, but could see nothing.

"Take this telescope," said Spilett, "and look carefully, Ayrton, for it is possible that this ship may be the 'Duncan' come to these seas for the purpose of taking you home again."

"The 'Duncan!'" murmured Ayrton. "Already?" This last word escaped Ayrton's lips as if involuntarily, and his head drooped upon his han ds.

Did not twelve years' solitude on a desert island appear to him a sufficient expiation? Did not the penitent yet feel himself pardoned, either in his own eyes or in the eyes of others?

"No," said he, "no! it cannot be the 'Duncan'!"

"Look, Ayrton," then said the engineer, "for it is necessary that we should know beforehand what to expect."

Ayrton took the glass and pointed it in the direction indicated. During some minutes he examined the horizon without moving, without uttering a word. Then,--

"It is indeed a vessel," said he, "but I do not think she is the 'Duncan.'"

"Why do you not think so?" asked Gideon Spilett.

"Because the 'Duncan' is a steam-yacht, and I cannot perceive any trace of smoke either above or near that vessel."

"Perhaps she is simply sailing," observed Pencroft. "The wind is favorable for the direction which she appears to be taking, and she may be anxious to economize her coal, being so far from land."

"It is possible that you may be right, Mr. Pencroft," answered Ayrto n,

"and that the vessel has extinguished her fires. We must wait until she is

nearer, and then we shall soon know what to expect."

So saying, Ayrton sat down in a corner of the room and remained sile nt.

The colonists again discussed the strange ship, but Ayrton took no part in

the conversation. All were in such a mood that they found it impossible to

continue their work. Gideon Spilett and Pencroft were particularly n ervous,

going, coming, not able to remain still in one place. Herbert felt m ore

curiosity. Neb alone maintained his usual calm manner. Was not his country

that where his master was? As to the engineer, he remained plunged in deep

thought, and in his heart feared rather than desired the arrival of the

ship. In the meanwhile, the vessel was a little nearer the island. With the

aid of the glass, it was ascertained that she was a brig, and not on e of

those Malay proas, which are generally used by the pirates of the Pacific.

It was, therefore, reasonable to believe that the engineer's apprehe nsions

would not be justified, and that the presence of this vessel in the vicinity of the island was fraught with no danger.

Pencroft, after a minute examination, was able positively to affirm that

the vessel was rigged as a brig, and that she was standing obliquely

towards the coast, on the starboard tack, under her topsails and top

gallant-sails. This was confirmed by Ayrton. But by continuing in th

direction she must soon disappear behind Claw Cape, as the wind was from

the southwest, and to watch her it would be then necessary to ascend the

height of Washington Bay, near Port Balloon--a provoking circumstance, for

it was already five o'clock in the evening, and the twilight would soon

make any observation extremely difficult.

"What shall we do when night comes on?" asked Gideon Spilett. "Shall we

light a fire, so as to signal our presence on the coast?"

This was a serious question, and yet, although the engineer still retained some of his presentiments, it was answered in the affirmative.

During the night the ship might disappear and leave for ever, and, this

ship gone, would another ever return to the waters of Lincoln Island? Who

could foresee what the future would then have in store for the colon ists?

"Yes," said the reporter, "we ought to make known to that vessel, whoever

she may be, that the island is inhabited. To neglect the opportunity which

is offered to us might be to create everlasting regrets."

It was therefore decided that Neb and Pencroft should go to Port Balloon,

and that there, at nightfall, they should light an immense fire, the blaze

of which would necessarily attract the attention of the brig.

But at the moment when Neb and the sailor were preparing to leave Gr anite

House, the vessel suddenly altered her course, and stood directly for ${\tt Union}$

Bay. The brig was a good sailer, for she approached rapidly. Neb and

Pencroft put off their departure, therefore, and the glass was put i nto

Ayrton's hands, that he might ascertain for certain whether the ship was or

was not the "Duncan." The Scotch yacht was also rigged as a brig. The

question was, whether a chimney could be discerned between the two $\ensuremath{\mathtt{m}}$ asts of

the vessel, which was now at a distance of only five miles.

The horizon was still very clear. The examination was easy, and Ayrt on

soon let the glass fall again, saying--

"It is not the 'Duncan'! It could not be!"

Pencroft again brought the brig within the range of the telescope, a nd

could see that she was of between three and four hundred tons burden

wonderfully narrow, well-masted, admirably built, and must be a very rapid

sailer. But to what nation did she belong? That was difficult to say

"And yet," added the sailor, "a flag is floating from her peak, but I cannot distinguish the colors of it."

"In half an hour we shall be certain about that," answered the reporter.

"Besides, it is very evident that the intention of the captain of th is ship

is to land, and, consequently, if not today, to-morrow at the latest, we

shall make his acquaintance."

"Never mind!" said Pencroft. "It is best to know whom we have to dea l

with, and I shall not be sorry to recognize that fellow's colors!"

And, while thus speaking, the sailor never left the glass. The day began

to fade, and with the day the breeze fell also. The brig's ensign hung in

folds, and it became more and more difficult to observe it.

"It is not the American flag," said Pencroft from time to time, "nor the

English, the red of which could be easily seen, nor the French or German

colors, nor the white flag of Russia, nor the yellow of Spain. One would

say it was all one color. Let's see: in these seas, what do we gener ally

meet with? The Chilean flag?--but that is tri-color. Brazilian?--it is

green. Japanese? -- it is yellow and black, while this -- "

At that moment the breeze blew out the unknown flag. Ayrton seizing the

telescope which the sailor had put down, put it to his eye, and in a hoarse voice,--

"The black flag!" he exclaimed.

And indeed the somber bunting was floating from the mast of the brig

they had now good reason for considering her to be a suspicious vess

Had the engineer, then, been right in his presentiments? Was this a pirate vessel? Did she scour the Pacific, competing with the Malay p roas

which still infest it? For what had she come to look at the shores of

Lincoln Island? Was it to them an unknown island, ready to become a magazine for stolen cargoes? Had she come to find on the coast a she ltered

port for the winter months? Was the settlers' honest domain destined to be

transformed into an infamous refuge--the headquarters of the piracy of the

Pacific?

All these ideas instinctively presented themselves to the colonists'

imaginations. There was no doubt, besides, of the signification which must

be attached to the color of the hoisted flag. It was that of pirates! It

was that which the "Duncan" would have carried, had the convicts suc ceeded

in their criminal design! No time was lost before discussing it.

"My friends," said Cyrus Harding, "perhaps this vessel only wishes to

survey the coast of the island. Perhaps her crew will not land. Ther e is a

chance of it. However that may be, we ought to do everything we can to hide

our presence here. The windmill on Prospect Heights is too easily se en. Let

Ayrton and Neb go and take down the sails. We must also conceal the windows

of Granite House with thick branches. All the fires must be extinguished,

so that nothing may betray the presence of men on the island."

"And our vessel?" said Herbert.

"Oh," answered Pencroft, "she is sheltered in Port Balloon, and I de fy $\,$

any of those rascals there to find her!"

The engineer's orders were immediately executed. Neb and Ayrton ascended

the plateau, and took the necessary precautions to conceal any indic ation

of a settlement. While they were thus occupied, their companions wen t to

the border of Jacamar Wood, and brought back a large quantity of branches

and creepers, which would at some distance appear as natural foliage, and

thus disguise the windows in the granite cliff. At the same time, the

ammunition and guns were placed ready so as to be at hand in case of an

unexpected attack.

When all these precautions had been taken, --

"My friends," said Harding, and his voice betrayed some emotion, "if the

wretches endeavor to seize Lincoln Island, we shall defend it--shall
 we
not?"

"Yes, Cyrus," replied the reporter, "and if necessary we will die to defend it!"

The engineer extended his hand to his companions, who pressed it war mly.

Ayrton remained in his corner, not joining the colonists. Perhaps he , the

former convict, still felt himself unworthy to do so!

Cyrus Harding understood what was passing in Ayrton's mind, and goin g to $\lim_{x\to 0}$

"And you, Ayrton," he asked, "what will you do?"

"My duty," answered Ayrton.

He then took up his station near the window and gazed through the foliage.

It was now half-past seven. The sun had disappeared twenty minutes a go

behind Granite House. Consequently the Eastern horizon was becoming obscured. In the meanwhile the brig continued to advance towards Union Bay.

She was now not more than two miles off, and exactly opposite the pl ateau

of Prospect Heights, for after having tacked off Claw Cape, she had drifted

towards the north in the current of the rising tide. One might have said

that at this distance she had already entered the vast bay, for a st raight

line drawn from Claw Cape to Cape Mandible would have rested on her starboard quarter.

Was the brig about to penetrate far into the bay? That was the first question. When once in the bay, would she anchor there? That was the

second. Would she not content herself with only surveying the coast, and

stand out to sea again without landing her crew? They would know this in an

hour. The colonists could do nothing but wait.

Cyrus Harding had not seen the suspected vessel hoist the black flag

without deep anxiety. Was it not a direct menace against the work which he

and his companions had till now conducted so successfully? Had these

pirates--for the sailors of the brig could be nothing else--already visited

the island, since on approaching it they had hoisted their colors. H ad they

formerly invaded it, so that certain unaccountable peculiarities might be

explained in this way? Did there exist in the as yet unexplored part s some

accomplice ready to enter into communication with them?

To all these questions which he mentally asked himself, Harding knew not

what to reply; but he felt that the safety of the colony could not b ut be

seriously threatened by the arrival of the brig.

However, he and his companions were determined to fight to the last gasp.

It would have been very important to know if the pirates were numerous and

better armed than the colonists. But how was this information to he obtained?

Night fell. The new moon had disappeared. Profound darkness envelope d the

island and the sea. No light could pierce through the heavy piles of clouds

on the horizon. The wind had died away completely with the twilight. Not a

leaf rustled on the trees, not a ripple murmured on the shore. Nothing

could be seen of the ship, all her lights being extinguished, and if she

was still in sight of the island, her whereabouts could not be discovered.

"Well! who knows?" said Pencroft. "Perhaps that cursed craft will st and

off during the night, and we shall see nothing of her at daybreak."

As if in reply to the sailor's observation, a bright light flashed in the

darkness, and a cannon-shot was heard.

The vessel was still there and had guns on board.

Six seconds elapsed between the flash and the report.

Therefore the brig was about a mile and a quarter from the coast.

At the same time, the chains were heard rattling through the hawse-h oles.

The vessel had just anchored in sight of Granite House!

Chapter 2

There was no longer any doubt as to the pirates' intentions. They had dropped anchor at a short distance from the island, and it was evide not that

the next day by means of their boats they purposed to land on the be ach!

Cyrus Harding and his companions were ready to act, but, determined though they were, they must not forget to be prudent. Perhaps their presence might still be concealed in the event of the pirates contenting

themselves with landing on the shore without examining the interior of the

island. It might be, indeed, that their only intention was to obtain fresh

water from the Mercy, and it was not impossible that the bridge, thrown

across a mile and a half from the mouth, and the manufactory at the Chimneys might escape their notice.

But why was that flag hoisted at the brig's peak? What was that shot

fired for? Pure bravado doubtless, unless it was a sign of the act of

taking possession. Harding knew now that the vessel was well armed. And

what had the colonists of Lincoln Island to reply to the pirates' gu ns? A

few muskets only.

"However," observed Cyrus Harding, "here we are in an impregnable position. The enemy cannot discover the mouth of the outlet, now that it is

hidden under reeds and grass, and consequently it would be impossible for

them to penetrate into Granite House."

"But our plantations, our poultry-yard, our corral, all, everything!

exclaimed Pencroft, stamping his foot. "They may spoil everything, destroy

everything in a few hours!"

"Everything, Pencroft," answered Harding, "and we have no means of preventing them."

"Are they numerous? that is the question," said the reporter. "If they

are not more than a dozen, we shall be able to stop them, but forty, fifty,

more perhaps!"

"Captain Harding," then said Ayrton, advancing towards the engineer,

"will you give me leave?"

"For what, my friend?"

"To go to that vessel to find out the strength of her crew."

"But Ayrton--" answered the engineer, hesitating, "you will risk you r life--"

"Why not, sir?"

"That is more than your duty."

"I have more than my duty to do, " replied Ayrton.

"Will you go to the ship in the boat?" asked Gideon Spilett.

"No, sir, but I will swim. A boat would be seen where a man may glid e between wind and water."

"Do you know that the brig is a mile and a quarter from the shore?" said
Herbert.

"I am a good swimmer, Mr. Herbert."

"I tell you it is risking your life," said the engineer.

"That is no matter," answered Ayrton. "Captain Harding, I ask this as a favor. Perhaps it will be a means of raising me in my own eyes!"

"Go, Ayrton," replied the engineer, who felt sure that a refusal would

have deeply wounded the former convict, now become an honest man.

"I will accompany you, " said Pencroft.

"You mistrust me!" said Ayrton quickly.

Then more humbly, --

"Alas!"

"No! no!" exclaimed Harding with animation, "no, Ayrton, Pencroft do es not mistrust you. You interpret his words wrongly."

"Indeed," returned the sailor, "I only propose to accompany Ayrton a s far

as the islet. It may be, although it is scarcely possible, that one of

these villains has landed, and in that case two men will not be too many to

hinder him from giving the alarm. I will wait for Ayrton on the isle t, and

he shall go alone to the vessel, since he has proposed to do so." These

things agreed to, Ayrton made preparations for his departure. His pl an was

bold, but it might succeed, thanks to the darkness of the night. Once

arrived at the vessel's side, Ayrton, holding on to the main chains, might

reconnoiter the number and perhaps overhear the intentions of the pirates.

Ayrton and Pencroft, followed by their companions, descended to the beach. Ayrton undressed and rubbed himself with grease, so as to suffer

less from the temperature of the water, which was still cold. He might,

indeed, be obliged to remain in it for several hours.

Pencroft and Neb, during this time, had gone to fetch the boat, moor ed a

few hundred feet higher up, on the bank of the Mercy, and by the time they

returned, Ayrton was ready to start. A coat was thrown over his shoulders,

and the settlers all came round him to press his hand.

Ayrton then shoved off with Pencroft in the boat.

It was half-past ten in the evening when the two adventurers disappe ared

in the darkness. Their companions returned to wait at the Chimneys.

The channel was easily traversed, and the boat touched the opposite shore

of the islet. This was not done without precaution, for fear lest the

pirates might be roaming about there. But after a careful survey, it was

evident that the islet was deserted. Ayrton then, followed by Pencro ft,

crossed it with a rapid step, scaring the birds nestled in the holes of the

rocks; then, without hesitating, he plunged into the sea, and swam noiselessly in the direction of the ship, in which a few lights had recently appeared, showing her exact situation. As to Pencroft, he c rouched

down in a cleft of the rock, and awaited the return of his companion

In the meanwhile, Ayrton, swimming with a vigorous stroke, glided through

the sheet of water without producing the slightest ripple. His head just

emerged above it and his eyes were fixed on the dark hull of the brig, from

which the lights were reflected in the water. He thought only of the duty

which he had promised to accomplish, and nothing of the danger which he

ran, not only on board the ship, but in the sea, often frequented by

sharks. The current bore him along and he rapidly receded from the s hore.

Half an hour afterwards, Ayrton, without having been either seen or heard, arrived at the ship and caught hold of the main-chains. He to ok

breath, then, hoisting himself up, he managed to reach the extremity of the

cutwater. There were drying several pairs of sailors' trousers. He p ut on a

pair. Then settling himself firmly, he listened. They were not sleep ing on

board the brig. On the contrary, they were talking, singing, laughin q. And

these were the sentences, accompanied with oaths, which principally struck

Ayrton: --

"Our brig is a famous acquisition."

"She sails well, and merits her name of the 'Speedy.'"

"She would show all the navy of Norfolk a clean pair of heels."

"Hurrah for her captain!"

"Hurrah for Bob Harvey!"

What Ayrton felt when he overheard this fragment of conversation may be

understood when it is known that in this Bob Harvey he recognized on e of

his old Australian companions, a daring sailor, who had continued his

criminal career. Bob Harvey had seized, on the shores of Norfolk Isl and

this brig, which was loaded with arms, ammunition, utensils, and too ls of

all sorts, destined for one of the Sandwich Islands. All his gang ha d gone

on board, and pirates after having been convicts, these wretches, mo re

ferocious than the Malays themselves, scoured the Pacific, destroyin

vessels, and massacring their crews.

The convicts spoke loudly, they recounted their deeds, drinking deep ly at

the same time, and this is what Ayrton gathered. The actual crew of the

"Speedy" was composed solely of English prisoners, escaped from Norf olk

Island.

Here it may be well to explain what this island was. In 29deg 2' sou

th

latitude, and 165deg 42' east longitude, to the east of Australia, is found

a little island, six miles in circumference, overlooked by Mount Pit t, which

rises to a height of 1,100 feet above the level of the sea. This is Norfolk

Island, once the seat of an establishment in which were lodged the ${\tt m}$ ost

intractable convicts from the English penitentiaries. They numbered 500,

under an iron discipline, threatened with terrible punishments, and were

guarded by 150 soldiers, and 150 employed under the orders of the go vernor.

It would be difficult to imagine a collection of greater ruffians. Sometimes, -- although very rarely, -- notwithstanding the extreme surveillance

of which they were the object, many managed to escape, and seizing \boldsymbol{v} essels

which they surprised, they infested the Polynesian Archipelagoes.

Thus had Bob Harvey and his companions done. Thus had Ayrton formerly

wished to do. Bob Harvey had seized the brig "Speedy," anchored in sight of

Norfolk Island; the crew had been massacred; and for a year this ship had

scoured the Pacific, under the command of Harvey, now a pirate, and well

known to Ayrton!

The convicts were, for the most part, assembled under the poop; but a few, stretched on the deck, were talking loudly.

The conversation still continued amid shouts and libations. Ayrton learned that chance alone had brought the "Speedy" in sight of Linco

Island; Bob Harvey had never yet set foot on it; but, as Cyrus Harding had

conjectured, finding this unknown land in his course, its position being

marked on no chart, he had formed the project of visiting it, and, if he

found it suitable, of making it the brig's headquarters.

As to the black flag hoisted at the "Speedy's" peak, and the gun which

had been fired, in imitation of men-of-war when they lower their colors, it

was pure piratical bravado. It was in no way a signal, and no commun ication

yet existed between the convicts and Lincoln Island.

The settlers' domain was now menaced with terrible danger. Evidently

the

island, with its water, its harbor, its resources of all kinds so in creased

in value by the colonists, and the concealment afforded by Granite H ouse,

could not but be convenient for the convicts; in their hands it would

become an excellent place of refuge, and, being unknown, it would as sure

them, for a long time perhaps, impunity and security. Evidently, als o, the

lives of the settlers would not be respected, and Bob Harvey and his

accomplices' first care would be to massacre them without mercy. Har ding

and his companions had, therefore, not even the choice of flying and hiding

themselves in the island, since the convicts intended to reside ther e, and

since, in the event of the "Speedy" departing on an expedition, it was

probable that some of the crew would remain on shore, so as to settle

themselves there. Therefore, it would be necessary to fight, to dest roy

every one of these scoundrels, unworthy of pity, and against whom an y means

would be right. So thought Ayrton, and he well knew that Cyrus Harding

would be of his way of thinking.

But was resistance and, in the last place, victory possible? That would depend on the equipment of the brig, and the number of men which she

carried.

This Ayrton resolved to learn at any cost, and as an hour after his arrival the vociferations had begun to die away, and as a large number of

the convicts were already buried in a drunken sleep, Ayrton did not hesitate to venture onto the "Speedy's" deck, which the extinguished

lanterns now left in total darkness. He hoisted himself onto the cut water,

and by the bowsprit arrived at the forecastle. Then, gliding among the

convicts stretched here and there, he made the round of the ship, an $\ensuremath{\mathtt{d}}$ found

that the "Speedy" carried four guns, which would throw shot of from eight

to ten pounds in weight. He found also, on touching them that these guns

were breech-loaders. They were therefore, of modern make, easily use d, and

of terrible effect.

As to the men lying on the deck, they were about ten in number, but it

was to be supposed that more were sleeping down below. Besides, by listening to them, Ayrton had understood that there were fifty on bo ard.

That was a large number for the six settlers of Lincoln Island to contend

with! But now, thanks to Ayrton's devotion, Cyrus Harding would not be

surprised, he would know the strength of his adversaries, and would make

his arrangements accordingly.

There was nothing more for Ayrton to do but to return, and render to his

companions an account of the mission with which he had charged himse lf, and

he prepared to regain the bows of the brig, so that he might let him self

down into the water. But to this man, whose wish was, as he had said , to do

more than his duty, there came an heroic thought. This was to sacrifice his

own life, but save the island and the colonists. Cyrus Harding evidently

could not resist fifty ruffians, all well armed, who, either by pene trating

by main force into Granite House, or by starving out the besieged, c ould

obtain from them what they wanted. And then he thought of his preservers--those who had made him again a man, and an honest mm, those to

whom he owed all--murdered without pity, their works destroyed, their island

turned into a pirates' den! He said to himself that he, Ayrton, was the

principal cause of so many disasters, since his old companion, Bob H arvey,

had but realized his own plans, and a feeling of horror took possess ion of

him. Then he was seized with an irresistible desire to blow up the brig and

with her, all whom she had on board. He would perish in the explosio ${\tt n}$, but

he would have done his duty.

Ayrton did not hesitate. To reach the powder-room, which is always situated in the after-part of a vessel, was easy. There would be no want of

powder in a vessel which followed such a trade, and a spark would be enough

to destroy it in an instant.

Ayrton stole carefully along the between-decks, strewn with numerous

sleepers, overcome more by drunkenness than sleep. A lantern was lighted

at the foot of the mainmast, round which was hung a gun-rack, furnis hed

with weapons of all sorts.

Ayrton took a revolver from the rack, and assured himself that it was

loaded and primed. Nothing more was needed to accomplish the work of

destruction. He then glided towards the stern, so as to arrive under the

brig's poop at the powder-magazine.

It was difficult to proceed along the dimly lighted deck without stumbling over some half-sleeping convict, who retorted by oaths and kicks.

Ayrton was, therefore, more than once obliged to halt. But at last h e

arrived at the partition dividing the aftercabin, and found the door

opening into the magazine itself.

Ayrton, compelled to force it open, set to work. It was a difficult operation to perform without noise, for he had to break a padlock. But

under his vigorous hand, the padlock broke, and the door was open.

At that moment a hand was laid on Ayrton's shoulder.

"What are you doing here?" asked a tail man, in a harsh voice, who, standing in the shadow, quickly threw the light of a lantern in Ayrt on's face.

Ayrton drew beck. In the rapid flash of the lantern, he had recognized

his former accomplice, Bob Harvey, who could not have known him, as he must

have thought Ayrton long since dead.

"What are you doing here?" again said Bob Harvey, seizing Ayrton by the waistband.

But Ayrton, without replying, wrenched himself from his grasp and attempted to rush into the magazine. A shot fired into the midst of the

powder-casks, and all would be over!

"Help, lads!" shouted Bob Harvey.

At his shout two or three pirates awoke, jumped up, and, rushing on Ayrton, endeavored to throw him down. He soon extricated himself from their

grasp. He fired his revolver, and two of the convicts fell, but a bl

ow from

a knife which he could not ward off made a gash in his shoulder.

Ayrton perceived that he could no longer hope to carry out his project.

Bob Harvey had reclosed the door of the powder-magazine, and a movem ent on

the deck indicated a general awakening of the pirates. Ayrton must reserve

himself to fight at the side of Cyrus Harding. There was nothing for him

but flight!

But was flight still possible? It was doubtful, yet Ayrton resolved to

dare everything in order to rejoin his companions.

Four barrels of the revolver were still undischarged. Two were fired --

one, aimed at Bob Harvey, did not wound him, or at any rate only slightly,

and Ayrton, profiting by the momentary retreat of his adversaries, rushed

towards the companion-ladder to gain the deck. Passing before the lantern,

he smashed it with a blow from the butt of his revolver. A profound darkness ensued, which favored his flight. Two or three pirates, awa kened

by the noise, were descending the ladder at the same moment.

A fifth shot from Ayrton laid one low, and the others drew back, not

understanding what was going on. Ayrton was on deck in two bounds, a nd

three seconds later, having discharged his last barrel in the face of a

pirate who was about to seize him by the throat, he leaped over the bulwarks into the sea.

Ayrton had not made six strokes before shots were splashing around h im

like hail.

What were Pencroft's feelings, sheltered under a rock on the islet! What

were those of Harding, the reporter, Herbert, and Neb, crouched in the

Chimneys, when they heard the reports on board the brig! They rushed out on

to the beach, and, their guns shouldered, they stood ready to repel any attack.

They had no doubt about it themselves! Ayrton, surprised by the pira tes,

had been murdered, and, perhaps, the wretches would profit by the ni

ght to make a descent on the island!

Half an hour was passed in terrible anxiety. The firing had ceased, and

yet neither Ayrton nor Pencroft had reappeared. Was the islet invade d?

Ought they not to fly to the help of Ayrton and Pencroft? But how? The tide

being high at that time, rendered the channel impassable. The boat was not

there! We may imagine the horrible anxiety which took possession of Harding

and his companions!

At last, towards half-past twelve, a boat, carrying two men, touched the

beach. It was Ayrton, slightly wounded in the shoulder, and Pencroft, safe

and sound, whom their friends received with open arms.

All immediately took refuge in the Chimneys. There Ayrton recounted all

that had passed, even to his plan for blowing up the brig, which he had

attempted to put into execution.

All hands were extended to Ayrton, who did not conceal from them that

their situation was serious. The pirates had been alarmed. They knew that

Lincoln Island was inhabited. They would land upon it in numbers and well

armed. They would respect nothing. Should the settlers fall into the ir

hands, they must expect no mercy!

"Well, we shall know how to die!" said the reporter.

"Let us go in and watch," answered the engineer.

"Have we any chance of escape, captain?" asked the sailor.

"Yes, Pencroft."

"Hum! six against fifty!"

"Yes! six! without counting--"

"Who?" asked Pencroft.

Cyrus did not reply, but pointed upwards.

Chapter 3

The night passed without incident. The colonists were on the qui viv e, and

did not leave their post at the Chimneys. The pirates, on their side , did

not appear to have made any attempt to land. Since the last shots fired at

Ayrton not a report, not even a sound, had betrayed the presence of the

brig in the neighborhood of the island. It might have been fancied that she

had weighed anchor, thinking that she had to deal with her match, an d had

left the coast.

But it was no such thing, and when day began to dawn the settlers could

see a confused mass through the morning mist. It was the "Speedy."

"These, my friends," said the engineer, "are the arrangements which appear to me best to make before the fog completely clears away. It hides

us from the eyes of the pirates, and we can act without attracting their

attention. The most important thing is, that the convicts should believe

that the inhabitants of the island are numerous, and consequently capable

of resisting them. I therefore propose that we divide into three parties.

The first of which shall be posted at the Chimneys, the second at the mouth

of the Mercy. As to the third, I think it would be best to place it on the

islet, so as to prevent, or at all events delay, any attempt at land ing. We

have the use of two rifles and four muskets. Each of us will be armed, and,

as we are amply provided with powder and shot, we need not spare our fire.

We have nothing to fear from the muskets nor even from the guns of the

brig. What can they do against these rocks? And, as we shall not fir e from

the windows of Granite House, the pirates will not think of causing irreparable damage by throwing shell against it. What is to be feare d is,

the necessity of meeting hand-to-hand, since the convicts have numbers on

their side. We must therefore try to prevent them from landing, but without

discovering ourselves. Therefore, do not economize the ammunition. Fire

often, but with a sure aim. We have each eight or ten enemies to kil 1, and

they must be killed!"

Cyrus Harding had clearly represented their situation, although he spoke

in the calmest voice, as if it was a question of directing a piece of work

and not ordering a battle. His companions approved these arrangements

without even uttering a word. There was nothing more to be done but for

each to take his place before the fog should be completely dissipate d. Neb

and Pencroft immediately ascended to Granite House and brought back a

sufficient quantity of ammunition. Gideon Spilett and Ayrton, both very

good marksmen, were armed with the two rifles, which carried nearly a mile.

The four other muskets were divided among Harding, Neb, Pencroft, and Herbert.

The posts were arranged in the following manner:--

Cyrus Harding and Herbert remained in ambush at the Chimneys, thus commanding the shore to the foot of Granite House.

Gideon Spilett and Neb crouched among the rocks at the mouth of the Mercy, from which the drawbridges had been raised, so as to prevent any one

from crossing in a boat or landing on the opposite shore.

As to Ayrton and Pencroft, they shoved off in the boat, and prepared to

cross the channel and to take up two separate stations on the islet. In

this way, shots being fired from four different points at once, the convicts would be led to believe that the island was both largely pe opled

and strongly defended.

In the event of a landing being effected without their having been a ble

to prevent it, and also if they saw that they were on the point of being

cut off by the brig's boat, Ayrton and Pencroft were to return in their

boat to the shore and proceed towards the threatened spot.

Before starting to occupy their posts, the colonists for the last ti $\ensuremath{\mathsf{me}}$

wrung each other's hands.

Pencroft succeeded in controlling himself sufficiently to suppress h is

emotion when he embraced Herbert, his boy! and then they separated.

In a few moments Harding and Herbert on one side, the reporter and N

eb on

the other, had disappeared behind the rocks, and five minutes later Ayrton

and Pencroft, having without difficulty crossed the channel, disembarked on

the islet and concealed themselves in the clefts of its eastern shor e.

None of them could have been seen, for they themselves could scarcel y distinguish the brig in the fog.

It was half-past six in the morning.

Soon the fog began to clear away, and the topmasts of the brig issue d

from the vapor. For some minutes great masses rolled over the surfac e of

the sea, then a breeze sprang up, which rapidly dispelled the mist.

The "Speedy" now appeared in full view, with a spring on her cable, her

head to the north, presenting her larboard side to the island. Just as

Harding had calculated, she was not more than a mile and a quarter f rom the coast.

The sinister black flag floated from the peak.

The engineer, with his telescope, could see that the four guns on bo and

were pointed at the island. They were evidently ready to fire at a m oment's notice.

In the meanwhile the "Speedy" remained silent. About thirty pirates

be seen moving on the deck. A few more on the poop; two others posted in

the shrouds, and armed with spyglasses, were attentively surveying the

island.

Certainly, Bob Harvey and his crew would not be able easily to give an

account of what had happened during the night on board the brig. Had this

half-naked man, who had forced the door of the powder-magazine, and with

whom they had struggled, who had six times discharged his revolver a t them,

who had killed one and wounded two others, escaped their shot? Had he been

able to swim to shore? Whence did he come? What had been his object? Had

his design really been to blow up the brig, as Bob Harvey had though t? All

this must be confused enough to the convicts' minds. But what they could no

longer doubt was that the unknown island before which the "Speedy" h ad cast

anchor was inhabited, and that there was, perhaps, a numerous colony ready

to defend it. And yet no one was to be seen, neither on the shore, n or on

the heights. The beach appeared to be absolutely deserted. At any rate,

there was no trace of dwellings. Had the inhabitants fled into the interior? Thus probably the pirate captain reasoned, and doubtless, like a

prudent man, he wished to reconnoiter the locality before he allowed his

men to venture there.

During an hour and a half, no indication of attack or landing could be

observed on board the brig. Evidently Bob Harvey was hesitating. Eve n with

his strongest telescopes he could not have perceived one of the sett lers

crouched among the rocks. It was not even probable that his attention had

been awakened by the screen of green branches and creepers hiding the

windows of Granite House, and showing rather conspicuously on the bare

rock. Indeed, how could be imagine that a dwelling was hollowed out, at

that height, in the solid granite? From Claw Cape to the Mandible Capes, in

all the extent of Union Bay, there was nothing to lead him to suppose that

the island was or could be inhabited.

At eight o'clock, however, the colonists observed a movement on boar d the

"Speedy." A boat was lowered, and seven men jumped into her. They we re

armed with muskets; one took the yoke-lines, four others the oars, a nd the

two others, kneeling in the bows, ready to fire, reconnoitered the island.

Their object was no doubt to make an examination but not to land, for in

the latter case they would have come in larger numbers. The pirates from

their look-out could have seen that the coast was sheltered by an is let,

separated from it by a channel half a mile in width. However, it was soon

evident to Cyrus Harding, on observing the direction followed by the

boat,

that they would not attempt to penetrate into the channel, but would land on the islet.

Pencroft and Ayrton, each hidden in a narrow cleft of the rock, saw them

coming directly towards them, and waited till they were within range .

The boat advanced with extreme caution. The oars only dipped into the

water at long intervals. It could now be seen that one of the convic ts held

a lead-line in his hand, and that he wished to fathom the depth of the

channel hollowed out by the current of the Mercy. This showed that it was

Bob Harvey's intention to bring his brig as near as possible to the coast.

About thirty pirates, scattered in the rigging, followed every movem ent of

the boat, and took the bearings of certain landmarks which would all ow them

to approach without danger. The boat was not more than two cables-lengths

off the islet when she stopped. The man at the tiller stood up and \boldsymbol{l} ooked

for the best place at which to land.

At that moment two shots were heard. Smoke curled up from among the rocks

of the islet. The man at the helm and the man with the lead-line fel $\ensuremath{\text{l}}$

backwards into the boat. Ayrton's and Pencroft's balls had struck them both

at the same moment.

Almost immediately a louder report was heard, a cloud of smoke issue d

from the brig's side, and a ball, striking the summit of the rock which

sheltered Ayrton and Pencroft, made it fly in splinters, but the two

marksmen remained unhurt.

Horrible imprecations burst from the boat, which immediately continued

its way. The man who had been at the tiller was replaced by one of h is

comrades, and the oars were rapidly plunged into the water. However,

instead of returning on board as might have been expected, the boat coasted

along the islet, so as to round its southern point. The pirates pull ed

vigorously at their oars that they might get out of range of the bul lets.

They advanced to within five cables-lengths of that part of the shore

terminated by Flotsam Point, and after having rounded it in a semici rcular

line, still protected by the brig's guns, they proceeded towards the mouth

of the Mercy.

Their evident intention was to penetrate into the channel, and cut off

the colonists posted on the islet, in such a way, that whatever their

number might be, being placed between the fire from the boat and the fire

from the brig, they would find themselves in a very disadvantageous position.

A quarter of an hour passed while the boat advanced in this direction.

Absolute silence, perfect calm reigned in the air and on the water.

Pencroft and Ayrton, although they knew they ran the risk of being cut.

off, had not left their post, both that they did not wish to show themselves as yet to their assailants, and expose themselves to the "Speedy's" guns, and that they relied on Neb and Gideon Spilett, wat ching

at the mouth of the river, and on Cyrus Harding and Herbert, in ambush

among the rocks at the Chimneys.

Twenty minutes after the first shots were fired, the boat was less than

two cables-lengths off the Mercy. As the tide was beginning to rise with

its accustomed violence, caused by the narrowness of the straits, the

pirates were drawn towards the river, and it was only by dint of har d

rowing that they were able to keep in the middle of the channel. But , as

they were passing within good range of the mouth of the Mercy, two balls

saluted them, and two more of their number were laid in the bottom of the

boat. Neb and Spilett had not missed their aim.

The brig immediately sent a second ball on the post betrayed by the smoke, but without any other result than that of splintering the rock.

The boat now contained only three able men. Carried on by the curren t, it

shot through the channel with the rapidity of an arrow, passed befor e

Harding and Herbert, who, not thinking it within range, withheld the ir

fire, then, rounding the northern point of the islet with the two re maining

oars, they pulled towards the brig.

Hitherto the settlers had nothing to complain of. Their adversaries had

certainly had the worst of it. The latter already counted four men seriously wounded if not dead; they, on the contrary, unwounded, had not

missed a shot. If the pirates continued to attack them in this way, if they

renewed their attempt to land by means of a boat, they could be dest royed

one by one.

It was now seen how advantageous the engineer's arrangements had bee ${\tt n}$.

The pirates would think that they had to deal with numerous and well-armed

adversaries, whom they could not easily get the better of.

Half an hour passed before the boat, having to pull against the curr ent,

could get alongside the "Speedy." Frightful cries were heard when the

returned on board with the wounded, and two or three guns were fired with

no results.

But now about a dozen other convicts, maddened with rage, and possibly by

the effect of the evening's potations, threw themselves into the boat. A

second boat was also lowered, in which eight men took their places, and

while the first pulled straight for the islet, to dislodge the colon ists

from thence the second maneuvered so as to force the entrance of the Mercy.

The situation was evidently becoming very dangerous for Pencroft and

Ayrton, and they saw that they must regain the mainland.

However, they waited till the first boat was within range, when two well-

directed balls threw its crew into disorder. Then, Pencroft and Ayrt on,

abandoning their posts, under fire from the dozen muskets, ran acros s the

islet at full speed, jumped into their boat, crossed the channel at the

moment the second boat reached the southern end, and ran to hide the mselves

in the Chimneys.

They had scarcely rejoined Cyrus Harding and Herbert, before the isl et

was overrun with pirates in every direction. Almost at the same mome nt,

fresh reports resounded from the Mercy station, to which the second boat

was rapidly approaching. Two, out of the eight men who manned her, were

mortally wounded by Gideon Spilett and Neb, and the boat herself, carried

irresistibly onto the reefs, was stove in at the mouth of the Mercy. But

the six survivors, holding their muskets above their heads to preser we them

from contact with the water, managed to land on the right bank of the

river. Then, finding they were exposed to the fire of the ambush the re,

they fled in the direction of Flotsam Point, out of range of the balls.

The actual situation was this: on the islet were a dozen convicts, of

whom some were no doubt wounded, but who had still a boat at their disposal; on the island were six, but who could not by any possibility

reach Granite House, as they could not cross the river, all the brid ges

being raised.

"Hallo," exclaimed Pencroft as he rushed into the Chimneys, "hallo, captain! What do you think of it, now?"

"I think," answered the engineer, "that the combat will now take a n ew

form, for it cannot be supposed that the convicts will be so foolish as to

remain in a position so unfavorable for them!"

"They won't cross the channel," said the sailor. "Ayrton and Mr. Spilett's rifles are there to prevent them. You know that they carry more than a mile!"

"No doubt," replied Herbert; "but what can two rifles do against the brig's guns?"

"Well, the brig isn't in the channel yet, I fancy!" said Pencroft.

"But suppose she does come there?" said Harding.

"That's impossible, for she would risk running aground and being los t!"

"It is possible," said Ayrton. "The convicts might profit by the high tide to enter the channel, with the risk of grounding at low tide, it is true; but then, under the fire from her guns, our posts would be no longer tenable."

"Confound them!" exclaimed Pencroft, "it really seems as if the blackguards were preparing to weigh anchor."

"Perhaps we shall be obliged to take refuge in Granite House!" observed Herbert.

"We must wait!" answered Cyrus Harding.

"But Mr. Spilett and Neb?" said Pencroft.

"They will know when it is best to rejoin us. Be ready, Ayrton. It is yours and Spilett's rifles which must speak now."

It was only too true. The "Speedy" was beginning to weigh her anchor, and

her intention was evidently to approach the islet. The tide would be rising

for an hour and a half, and the ebb current being already weakened, it

would be easy for the brig to advance. But as to entering the channe 1,

Pencroft, contrary to Ayrton's opinion, could not believe that she would

dare to attempt it.

In the meanwhile, the pirates who occupied the islet had gradually advanced to the opposite shore, and were now only separated from the mainland by the channel.

Being armed with muskets alone, they could do no harm to the settler s, in

ambush at the Chimneys and the mouth of the Mercy; but, not knowing the

latter to be supplied with long-range rifles, they on their side did not

believe themselves to be exposed. Quite uncovered, therefore, they surveyed

the islet, and examined the shore.

Their illusion was of short duration. Ayrton's and Gideon Spilett's rifles then spoke, and no doubt imparted some very disagreeable intelligence to two of the convicts, for they fell backwards.

Then there was a general helter-skelter. The ten others, not even stopping to pick up their dead or wounded companions, fled to the other

side of the islet, tumbled into the boat which had brought them, and pulled

away with all their strength.

"Eight less!" exclaimed Pencroft. "Really, one would have thought that

Mr. Spilett and Ayrton had given the word to fire together!"

"Gentlemen," said Ayrton, as he reloaded his gun, "this is becoming more

serious. The brig is making sail!"

"The anchor is weighed!" exclaimed Pencroft.

"Yes, and she is already moving."

In fact, they could distinctly hear the creaking of the windlass. The

"Speedy" was at first held by her anchor; then, when that had been raised,

she began to drift towards the shore. The wind was blowing from the sea;

the jib and the foretopsail were hoisted, and the vessel gradually approached the island.

From the two posts of the Mercy and the Chimneys they watched her without

giving a sign of life, but not without some emotion. What could be $\ensuremath{\mathsf{m}}$ ore

terrible for the colonists than to be exposed, at a short distance, to the

brig's guns, without being able to reply with any effect? How could they

then prevent the pirates from landing?

Cyrus Harding felt this strongly, and he asked himself what it would be

possible to do. Before long, he would be called upon for his determination.

But what was it to be? To shut themselves up in Granite House, to be

besieged there, to remain there for weeks, for months even, since the ey had

an abundance of provisions? So far good! But after that? The pirates would

not the less be masters of the island, which they would ravage at their

pleasure, and in time, they would end by having their revenge on the

prisoners in Granite House.

However, one chance yet remained; it was that Bob Harvey, after all,

would not venture his ship into the channel, and that he would keep outside

the islet. He would be still separated from the coast by half a mile , and

at that distance his shot could not be very destructive.

"Never!" repeated Pencroft, "Bob Harvey will never, if he is a good seaman, enter that channel! He knows well that it would risk the brig, if

the sea got up ever so little! And what would become of him without his

vessel?"

In the meanwhile the brig approached the islet, and it could be seen that

she was endeavoring to make the lower end. The breeze was light, and as the

current had then lost much of its force, Bob Harvey had absolute com mand

over his vessel.

The route previously followed by the boats had allowed her to reconn oiter

the channel, and she boldly entered it.

The pirate's design was now only too evident; he wished to bring her

broadside to bear on the Chimneys and from there to reply with shell and

ball to the shot which had till then decimated her crew.

Soon the "Speedy" reached the point of the islet; she rounded it with

ease; the mainsail was braced up, and the brig hugging the wind, sto od

across the mouth of the Mercy.

"The scoundrels! they are coming!" said Pencroft.

At that moment, Cyrus Harding, Ayrton, the sailor, and Herbert, were rejoined by Neb and Gideon Spilett.

The reporter and his companion had judged it best to abandon the post at

the Mercy, from which they could do nothing against the ship, and they had

acted wisely. It was better that the colonists should be together at the

moment when they were about to engage in a decisive action. Gideon S pilett

and Neb had arrived by dodging behind the rocks, though not without attracting a shower of bullets, which had not, however, reached them

•

"Spilett! Neb!" cried the engineer. "You are not wounded?"

"No," answered the reporter, "a few bruises only from the ricochet! But $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right) +\left($

that cursed brig has entered the channel!"

"Yes," replied Pencroft, "and in ten minutes she will have anchored before Granite House!"

"Have you formed any plan, Cyrus?" asked the reporter.

"We must take refuge in Granite House while there is still time, and the $\,$

convicts cannot see us."

"That is, my opinion, too," replied Gideon Spilett, "but once shut u p--"

"We must be guided by circumstances," said the engineer.

"Let us be off, then, and make haste!" said the reporter.

"Would you not wish, captain, that Ayrton and I should remain here?" asked the sailor.

"What would be the use of that, Pencroft?" replied Harding. "No. We will not separate!"

There was not a moment to be lost. The colonists left the Chimneys. $\ensuremath{\mathtt{a}}$

bend of the cliff prevented them from being seen by those in the bri q, but

two or three reports, and the crash of bullets on the rock, told the ${\tt m}$ that

the "Speedy" was at no great distance.

To spring into the lift, hoist themselves up to the door of Granite House, where Top and Jup had been shut up since the evening before, to rush

into the large room, was the work of a minute only.

It was quite time, for the settlers, through the branches, could see the

"Speedy," surrounded with smoke, gliding up the channel. The firing was

incessant, and shot from the four guns struck blindly, both on the M $\mathop{\rm ercy}\nolimits$

post, although it was not occupied, and on the Chimneys. The rocks were

splintered, and cheers accompanied each discharge. However, they wer e

hoping that Granite House would be spared, thanks to Harding's precaution

of concealing the windows when a shot, piercing the door, penetrated

into the passage.

"We are discovered!" exclaimed Pencroft.

The colonists had not, perhaps, been seen, but it was certain that B ob

Harvey had thought proper to send a ball through the suspected folia ge

which concealed that part of the cliff. Soon he redoubled his attack , when

another ball having torn away the leafy screen, disclosed a gaping a perture

in the granite.

The colonists' situation was desperate. Their retreat was discovered

They could not oppose any obstacle to these missiles, nor protect the

stone, which flew in splinters around them. There was nothing to be done

but to take refuge in the upper passage of Granite House, and leave their

dwelling to be devastated, when a deep roar was heard, followed by frightful cries!

Cyrus Harding and his companions rushed to one of the windows--

The brig, irresistibly raised on a sort of water-spout, had just split in

two, and in less than ten seconds she was swallowed up with all her criminal crew!

Chapter 4

"She has blown up!" cried Herbert.

"Yes! blown up, just as if Ayrton had set fire to the powder!" returned

Pencroft, throwing himself into the lift together with Neb and the l ad.

"But what has happened?" asked Gideon Spilett, quite stunned by this unexpected catastrophe.

"Oh! this time, we shall know--" answered the engineer quickly.

"What shall we know?--"

"Later! later! Come, Spilett. The main point is that these pirates h ave

been exterminated!"

And Cyrus Harding, hurrying away the reporter and Ayrton, joined

Pencroft, Neb, and Herbert on the beach.

Nothing could be seen of the brig, not even her masts. After having been

raised by the water-spout, she had fallen on her side, and had sunk in that

position, doubtless in consequence of some enormous leak. But as in that

place the channel was not more than twenty feet in depth, it was cer tain

that the sides of the submerged brig would reappear at low water.

A few things from the wreck floated on the surface of the water, a r ${\sf aft}$

could be seen consisting of spare spars, coops of poultry with their

occupants still living, boxes and barrels, which gradually came to the

surface, after having escaped through the hatchways, but no pieces of the

wreck appeared, neither planks from the deck, nor timber from the hull,--

which rendered the sudden disappearance of the "Speedy" perfectly inexplicable.

However, the two masts, which had been broken and escaped from the shrouds and stays came up, and with their sails, some furled and the others

spread. But it was not necessary to wait for the tide to bring up these

riches, and Ayrton and Pencroft jumped into the boat with the intent ion of

towing the pieces of wreck either to the beach or to the islet. But just as

they were shoving off, an observation from Gideon Spilett arrested them.

"What about those six convicts who disembarked on the right bank of the

Mercy?" said he.

In fact, it would not do to forget that the six men whose boat had gone

to pieces on the rocks had landed at Flotsam Point.

They looked in that direction. None of the fugitives were visible. I t was

probable that, having seen their vessel engulfed in the channel, the y had

fled into the interior of the island.

"We will deal with them later," said Harding. "As they are armed, they

will still be dangerous; but as it is six against six, the chances a re

equal. To the most pressing business first."

Ayrton and Pencroft pulled vigorously towards the wreck.

The sea was calm and the tide very high, as there had been a new moon but

two days before. A whole hour at least would elapse before the hull of the

brig could emerge from the water of the channel.

Ayrton and Pencroft were able to fasten the masts and spars by means of

ropes, the ends of which were carried to the beach. There, by the united

efforts of the settlers the pieces of wreck were hauled up. Then the boat

picked up all that was floating, coops, barrels, and boxes, which we re

immediately carried to the Chimneys.

Several bodies floated also. Among them, Ayrton recognized that of B ob

Harvey, which he pointed out to his companion, saying with some emot ion, --

"That is what I have been, Pencroft."

"But what you are no longer, brave Ayrton!" returned the sailor warm ly.

It was singular enough that so few bodies floated. Only five or six were

counted, which were already being carried by the current towards the open

sea. Very probably the convicts had not had time to escape, and the ship

lying over on her side, the greater number of them had remained below. Now

the current, by carrying the bodies of these miserable men out to se a,

would spare the colonists the sad task of burying them in some corner of

their island.

For two hours, Cyrus Harding and his companions were solely occupied in

hauling up the spars on to the sand, and then in spreading the sails which

were perfectly uninjured, to dry. They spoke little, for they were a bsorbed

in their work, but what thoughts occupied their minds!

The possession of this brig, or rather all that she contained, was a

perfect mine of wealth. In fact, a ship is like a little world in miniature, and the stores of the colony would be increased by a larg e

number of useful articles. It would be, on a large scale, equivalent to the

chest found at Flotsam Point.

"And besides," thought Pencroft, "why should it be impossible to refloat

the brig? If she has only a leak, that may be stopped up; a vessel f rom

three to four hundred tons, why she is a regular ship compared to our

'Bonadventure'! And we could go a long distance in her! We could go anywhere we liked! Captain Harding, Ayrton and I must examine her! S he

would be well worth the trouble!"

In fact, if the brig was still fit to navigate, the colonists' chances of

returning to their native land were singularly increased. But, to de cide

this important question, it was necessary to wait until the tide was quite

low, so that every part of the brig's hull might be examined.

When their treasures had been safely conveyed on shore, Harding and his

companions agreed to devote some minutes to breakfast. They were alm ost

famished; fortunately, the larder was not far off, and Neb was noted for

being an expeditious cook. They breakfasted, therefore, near the Chimneys,

and during their repast, as may be supposed, nothing was talked of b ut the

event which had so miraculously saved the colony.

"Miraculous is the word," repeated Pencroft, "for it must be acknowl edged

that those rascals blew up just at the right moment! Granite House was

beginning to be uncomfortable as a habitation!"

"And can you guess, Pencroft," asked the reporter, "how it happened, or

what can have occasioned the explosion?"

"Oh! Mr. Spilett, nothing is more simple," answered Pencroft. "A con vict

vessel is not disciplined like a man-of-war! Convicts are not sailor s. Of

course the powder-magazine was open, and as they were firing incessa ntly,

some careless or clumsy fellow just blew up the vessel!"

"Captain Harding," said Herbert, "what astonishes me is that the explosion has not produced more effect. The report was not loud, and

besides there are so few planks and timbers torn out. It seems as if the ship had rather foundered than blown up."

"Does that astonish you, my boy?" asked the engineer.

"Yes, captain."

"And it astonishes me also, Herbert," replied he, "but when we visit the hull of the brig, we shall no doubt find the explanation of the matter."

"Why, captain," said Pencroft, "you don't suppose that the 'Speedy' simply foundered like a ship which has struck on a rock?"

"Why not," observed Neb, "if there are rocks in the channel?"

"Nonsense, Neb," answered Pencroft, "you did not look at the right moment. An instant before she sank, the brig, as I saw perfectly well, rose

on an enormous wave, and fell back on her larboard side. Now, if she had

only struck, she would have sunk quietly and gone to the bottom like an honest vessel."

Hollest Vessel.

"It was just because she was not an honest vessel!" returned Neb.

"Well, we shall soon see, Pencroft," said the engineer.

"We shall soon see," rejoined the sailor, "but I would wager my head there are no rocks in the channel. Look here, captain, to speak cand idly, do you mean to say that there is anything marvelous in the occurrence?"

Cyrus Harding did not answer.

"At any rate," said Gideon Spilett, "whether rock or explosion, you will

agree, Pencroft, that it occurred just in the nick of time!"

"Yes! yes!" replied the sailor, "but that is not the question. I ask Captain Harding if he sees anything supernatural in all this."

"I cannot say, Pencroft," said the engineer. "That is all the answer I can make."

A reply which did not satisfy Pencroft at all. He stuck to "an explosion," and did not wish to give it up. He would never consent to admit

that in that channel, with its fine sandy bed, just like the beach,

which

he had often crossed at low water, there could be an unknown rock.

And besides, at the time the brig foundered, it was high water, that is

to say, there was enough water to carry the vessel clear over any rocks

which would not be uncovered at low tide. Therefore, there could not have

been a collision. Therefore, the vessel had not struck. So she had b lown up.

And it must be confessed that the sailor's arguments were reasonable .

Towards half-past one, the colonists embarked in the boat to visit the

wreck. It was to be regretted that the brig's two boats had not been saved;

but one, as has been said, had gone to pieces at the mouth of the Mercy,

and was absolutely useless; the other had disappeared when the brig went

down, and had not again been seen, having doubtless been crushed.

The hull of the "Speedy" was just beginning to issue from the water. The

brig was lying right over on her side, for her masts being broken, pressed

down by the weight of the ballast displaced by the shock, the keel w as

visible along her whole length. She had been regularly turned over by the

inexplicable but frightful submarine action, which had been at the s ame

time manifested by an enormous water-spout.

The settlers rowed round the hull, and in proportion as the tide wen t down, they could ascertain, if not the cause which had occasioned the catastrophe, at least the effect produced.

Towards the bows, on both sides of the keel, seven or eight feet fro $\ensuremath{\mathtt{m}}$ the

beginning of the stem, the sides of the brig were frightfully torn. Over ${\tt a}$

length of at least twenty feet there opened two large leaks, which $\ensuremath{\mathbf{w}}$ ould be

impossible to stop up. Not only had the copper sheathing and the planks

disappeared, reduced, no doubt, to powder, but also the ribs, the ir on

bolts, and treenalls which united them. From the entire length of the hull

to the stern the false keel had been separated with an unaccountable violence, and the keel itself, torn from the carline in several places, was

split in all its length.

"I've a notion!" exclaimed Pencroft, "that this vessel will be difficult

to get afloat again."

"It will be impossible," said Ayrton.

"At any rate," observed Gideon Spilett to the sailor, "the explosion, if

there has been one, has produced singular effects! It has split the lower

part of the hull, instead of blowing up the deck and topsides! These great

rents appear rather to have been made by a rock than by the explosio n of a

powder-magazine."

"There is not a rock in the channel!" answered the sailor. "I will a $\ensuremath{\mathsf{dmit}}$

anything you like, except the rock."

"Let us try to penetrate into the interior of the brig," said the engineer; "perhaps we shall then know what to think of the cause of her

destruction."

This was the best thing to be done, and it was agreed, besides, to take

an inventory of all the treasures on board, and to arrange their preservation.

Access to the interior of the brig was now easy. The tide was still going

down and the deck was practicable. The ballast, composed of heavy masses of

iron, had broken through in several places. The noise of the sea could be

heard as it rushed out at the holes in the hull.

Cyrus Harding and his companions, hatchets in hand, advanced along the

shattered deck. Cases of all sorts encumbered it, and, as they had been but

a very short time in the water, their contents were perhaps uninjure d.

They then busied themselves in placing all this cargo in safety. The

water would not return for several hours, and these hours must be employed

in the most profitable way. Ayrton and Pencroft had, at the entrance

made

in the hull, discovered tackle, which would serve to hoist up the barrels

and chests. The boat received them and transported them to the shore . They $\,$

took the articles as they came, intending to sort them afterwards.

At any rate, the settlers saw at once, with extreme satisfaction, that

the brig possessed a very varied cargo--an assortment of all sorts of

articles, utensils, manufactured goods, and tools--such as the ships which

make the great coasting-trade of Polynesia are usually laden with. I t was

probable that they would find a little of everything, and they agree d that

it was exactly what was necessary for the colony of Lincoln Island.

However--and Cyrus Harding observed it in silent astonishment--not only, as

has been said, had the hull of the brig enormously suffered from the shock,

whatever it was, that had occasioned the catastrophe, but the interior

arrangements had been destroyed, especially towards the bows. Partitions

and stanchions were smashed, as if some tremendous shell had burst in the

interior of the brig. The colonists could easily go fore and aft, after

having removed the cases as they were extricated. They were not heav v

bales, which would have been difficult to remove, but simple package s, of

which the stowage, besides, was no longer recognizable.

The colonists then reached the stern of the brig--the part formerly surmounted by the poop. It was there that, following Ayrton's direct ions,

they must look for the powder-magazine. Cyrus Harding thought that i t had

not exploded; that it was possible some barrels might be saved, and that

the powder, which is usually enclosed in metal coverings might not h ave

suffered from contact with the water.

This, in fact, was just what had happened. They extricated from amon q a

large number of shot twenty barrels, the insides of which were lined with

copper. Pencroft was convinced by the evidence of his own eyes that the

destruction of the "Speedy" could not be attributed to an explosion. That

part of the hull in which the magazine was situated was, moreover, that

which had suffered least.

"It may be so," said the obstinate sailor; "but as to a rock, there is

not one in the channel!"

"Then, how did it happen?" asked Herbert.

"I don't know," answered Pencroft, "Captain Harding doesn't know, an d nobody knows or ever will know!"

Several hours had passed during these researches, and the tide began to

flow. Work must be suspended for the present. There was no fear of the brig

being carried away by the sea, for she was already fixed as firmly a s if

moored by her anchors.

They could, therefore, without inconvenience, wait until the next day to

resume operations; but, as to the vessel itself, she was doomed, and it

would be best to hasten to save the remains of her hull, as she would not

be long in disappearing in the quicksands of the channel.

It was now five o'clock in the evening. It had been a hard day's work for

the men. They are with good appetite, and notwithstanding their fati que,

they could not resist, after dinner, their desire of inspecting the cases

which composed the cargo of the "Speedy."

Most of them contained clothes, which, as may be believed, was well received. There were enough to clothe a whole colony--linen for ever y one's

use, shoes for every one's feet.

"We are too rich!" exclaimed Pencroft, "But what are we going to do with all this?"

And every moment burst forth the hurrahs of the delighted sailor whe ${\bf n}$ he

caught sight of the barrels of gunpowder, firearms and sidearms, balls of

cotton, implements of husbandry, carpenter's, joiner's, and blacksmi

tools, and boxes of all kinds of seeds, not in the least injured by their

short sojourn in the water. Ah, two years before, how these things w

ould

have been prized! And now, even though the industrious colonists had provided themselves with tools, these treasures would find their use.

There was no want of space in the store-rooms of Granite House, but that

daytime would not allow them to stow away the whole. It would not do also

to forget that the six survivors of the "Speedy's" crew had landed on the

island, for they were in all probability scoundrels of the deepest dye, and

it was necessary that the colonists should be on their guard against them.

Although the bridges over the Mercy were raised, the convicts would not be

stopped by a river or a stream and, rendered desperate, these wretch es

would be capable of anything.

They would see later what plan it would be best to follow; but in the

meantime it was necessary to mount guard over cases and packages heaped up

near the Chimneys, and thus the settlers employed themselves in turn during the night.

The morning came, however, without the convicts having attempted any

attack. Master Jup and Top, on guard at the foot of Granite House, would

have quickly given the alarm. The three following day--the 19th, 20th, and

21st of October--were employed in saving everything of value, or of any use

whatever, either from the cargo or rigging of the brig. At low tide they

overhauled the hold--at high tide they stowed away the rescued artic les. A

great part of the copper sheathing had been torn from the hull, which every

day sank lower. But before the sand had swallowed the heavy things w hich

had fallen through the bottom, Ayrton and Pencroft, diving to the bed of

the channel, recovered the chains and anchors of the brig, the iron of her

ballast, and even four guns, which, floated by means of empty casks, were

brought to shore.

It may be seen that the arsenal of the colony had gained by the wrec k, as

well as the storerooms of Granite House. Pencroft, always enthusiast ic in

his projects, already spoke of constructing a battery to command the

channel and the mouth of the river. With four guns, he engaged to prevent

any fleet, "however powerful it might be," from venturing into the w aters

of Lincoln Island!

In the meantime, when nothing remained of the brig but a useless hul k,

bad weather came on, which soon finished her. Cyrus Harding had intended to

blow her up, so as to collect the remains on the shore, but a strong gale

from the northeast and a heavy sea compelled him to economize his powder.

In fact, on the night of the 23rd, the hull entirely broke up, and some

of the wreck was cast up on the beach.

As to the papers on board, it is useless to say that, although he carefully searched the lockers of the poop, Harding did not discover any

trace of them. The pirates had evidently destroyed everything that concerned either the captain or the owners of the "Speedy," and, as the

name of her port was not painted on her counter, there was nothing which

would tell them her nationality. However, by the shape of her boats Ayrton

and Pencroft believed that the brig was of English build.

A week after the castrophe--or, rather, after the fortunate, though inexplicable, event to which the colony owed its preservation--nothing more

could be seen of the vessel, even at low tide. The wreck had disappe ared,

and Granite House was enriched by nearly all it had contained.

However, the mystery which enveloped its strange destruction would doubtless never have been cleared away if, on the 30th of November, Neb,

strolling on the beach, had not found a piece of a thick iron cylind er,

bearing traces of explosion. The edges of this cylinder were twisted and

broken, as if they had been subjected to the action of some explosiv e

substance.

Neb brought this piece of metal to his master, who was then occupied with

his companions in the workshop of the Chimneys.

Cyrus Harding examined the cylinder attentively, then, turning to Pencroft,--

"You persist, my friend," said he, "in maintaining that the 'Speedy' was

not lost in consequence of a collision?"

"Yes, captain," answered the sailor. "You know as well as I do that there are no rocks in the channel."

"But suppose she had run against this piece of iron?" said the engin eer, showing the broken cylinder.

"What, that bit of pipe!" exclaimed Pencroft in a tone of perfect incredulity.

"My friends," resumed Harding, "you remember that before she founder ed the brig rose on the summit of a regular waterspout?"

"Yes, captain," replied Herbert.

"Well, would you like to know what occasioned that waterspout? It was this," said the engineer, holding up the broken tube.

"That?" returned Pencroft.

"Yes! This cylinder is all that remains of a torpedo!"

"A torpedo!" exclaimed the engineer's companions.

"And who put the torpedo there?" demanded Pencroft, who did not like to yield.

"All that I can tell you is, that it was not I," answered Cyrus Harding;

"but it was there, and you have been able to judge of its incomparable power!"

Chapter 5

So, then, all was explained by the submarine explosion of this torpe do.

Cyrus Harding could not be mistaken, as, during the war of the Union , he

had had occasion to try these terrible engines of destruction. It was under

the action of this cylinder, charged with some explosive substance, nitro-

glycerine, picrate, or some other material of the same nature, that the

water of the channel had been raised like a dome, the bottom of the brig

crushed in, and she had sunk instantly, the damage done to her hull being so

considerable that it was impossible to refloat her. The "Speedy" had not

been able to withstand a torpedo that would have destroyed an ironcl ad as

easily as a fishing-boat!

Yes! all was explained, everything--except the presence of the torpe do in

the waters of the channel!

"My friends, then," said Cyrus Harding, "we can no longer be in doub t as

to the presence of a mysterious being, a castaway like us, perhaps, abandoned on our island, and I say this in order that Ayrton may be acquainted with all the strange events which have occurred during these two

years. Who this beneficent stranger is, whose intervention has, so fortunately for us, been manifested on many occasions, I cannot imagine.

What his object can be in acting thus, in concealing himself after rendering us so many services, I cannot understand: But his services are

not the less real, and are of such a nature that only a man possesse d of

prodigious power, could render them. Ayrton is indebted to him as mu ch as

we are, for, if it was the stranger who saved me from the waves after the

fall from the balloon, evidently it was he who wrote the document, \boldsymbol{w} ho

placed the bottle in the channel, and who has made known to us the situation of our companion. I will add that it was he who guided that

chest, provided with everything we wanted, and stranded it on Flotsa m

Point; that it was he who lighted that fire on the heights of the is land,

which permitted you to land; that it was he who fired that bullet fo und in

the body of the peccary; that it was he who plunged that torpedo into the

channel, which destroyed the brig; in a word, that all those inexplicable

events, for which we could not assign a reason, are due to this myst erious

being. Therefore, whoever he may be, whether shipwrecked, or exiled on our

island, we shall be ungrateful, if we think ourselves freed from gratitude

towards him. We have contracted a debt, and I hope that we shall one

day pay it."

"You are right in speaking thus, my dear Cyrus," replied Gideon Spil ett.

"Yes, there is an almost all-powerful being, hidden in some part of the

island, and whose influence has been singularly useful to our colony . I

will add that the unknown appears to possess means of action which border

on the supernatural, if in the events of practical life the supernatural

were recognizable. Is it he who is in secret communication with us by the

well in Granite House, and has he thus a knowledge of all our plans? Was it

he who threw us that bottle, when the vessel made her first cruise? Was it

he who threw Top out of the lake, and killed the dugong? Was it he, who as

everything leads us to believe, saved you from the waves, and that u nder

circumstances in which any one else would not have been able to act? If it

was he, he possesses a power which renders him master of the element s."

The reporter's reasoning was just, and every one felt it to be so.

"Yes," rejoined Cyrus Harding, "if the intervention of a human being is

not more questionable for us, I agree that he has at his disposal me ans of

action beyond those possessed by humanity. There is a mystery still, but if

we discover the man, the mystery will be discovered also. The question,

then, is, ought we to respect the incognito of this generous being, or

ought we to do everything to find him out? What is your opinion on the

matter?"

"My opinion," said Pencroft, "is that, whoever he may be, he is a brave

man, and he has my esteem!"

"Be it so," answered Harding, "but that is not an answer, Pencroft."

"Master," then said Neb, "my idea is, that we may search as long as we

like for this gentleman whom you are talking about, but that we shall not

discover him till he pleases."

"That's not bad, what you say, Neb," observed Pencroft.

"I am of Neb's opinion," said Gideon Spilett, "but that is no reason for

not attempting the adventure. Whether we find this mysterious being or not,

we shall at least have fulfilled our duty towards him."

"And you, my boy, give us your opinion," said the engineer, turning to Herbert.

"Oh," cried Herbert, his countenance full of animation, "how I should

like to thank him, he who saved you first, and who has now saved us! "

"Of course, my boy," replied Pencroft, "so would I and all of us. I am

not inquisitive, but I would give one of my eyes to see this individual

face to face! It seems to me that he must be handsome, tall, strong, with a

splendid beard, radiant hair, and that he must be seated on clouds, a great

ball in his hands!"

"But, Pencroft," answered Spilett, "you are describing a picture of the Creator."

"Possibly, Mr. Spilett," replied the sailor, "but that is how I imagine him!"

"And you, Ayrton?" asked the engineer.

"Captain Harding," replied Ayrton, "I can give you no better advice in

this matter. Whatever you do will be best; when you wish me to join you in

your researches, I am ready to follow you.

"I thank you, Ayrton," answered Cyrus Harding, "but I should like a more

direct answer to the question I put to you. You are our companion; y ou have

already endangered your life several times for us, and you, as well as the

rest, ought to be consulted in the matter of any important decision. Speak,

therefore."

"Captain Harding," replied Ayrton, "I think that we ought to do everything to discover this unknown benefactor. Perhaps he is alone.

Perhaps he is suffering. Perhaps he has a life to be renewed. I, too , as

you said, have a debt of gratitude to pay him. It was he, it could be only

he who must have come to Tabor Island, who found there the wretch yo u knew,

and who made known to you that there was an unfortunate man there to be

saved. Therefore it is, thanks to him, that I have become a man again. No,

I will never forget him!"

"That is settled, then," said Cyrus Harding. "We will begin our researches as soon as possible. We will not leave a corner of the is land

unexplored. We will search into its most secret recesses, and will hope

that our unknown friend will pardon us in consideration of our intentions!"

For several days the colonists were actively employed in haymaking a nd

the harvest. Before putting their project of exploring the yet unknown

parts of the island into execution, they wished to get all possible work

finished. It was also the time for collecting the various vegetables from

the Tabor Island plants. All was stowed away, and happily there was no want

of room in Granite House, in which they might have housed all the treasures

of the island. The products of the colony were there, methodically arranged, and in a safe place, as may be believed, sheltered as much from

animals as from man.

There was no fear of damp in the middle of that thick mass of granit

Many natural excavations situated in the upper passage were enlarged either

by pick-axe or mine, and Granite House thus became a general warehouse,

containing all the provisions, arms, tools, and spare utensils--in a word,

all the stores of the colony.

As to the guns obtained from the brig, they were pretty pieces of ordnance, which, at Pencroft's entreaty, were hoisted by means of tackle

and pulleys, right up into Granite House; embrasures were made betwe en the

windows, and the shining muzzles of the guns could soon be seen through the

granite cliff. From this height they commanded all Union Bay. It was

like a

little Gibraltar, and any vessel anchored off the islet would inevit ably be

exposed to the fire of this aerial battery.

"Captain," said Pencroft one day, it was the 8th of November, "now that our fortifications are finished, it would be a good thing if we tried the range of our guns."

"Do you think that is useful?" asked the engineer.

"It is more than useful, it is necessary! Without that how are we to know

to what distance we can send one of those pretty shot with which we are

provided?"

"Try them, Pencroft," replied the engineer. "However, I think that in $\ensuremath{\mathsf{n}}$

making the experiment, we ought to employ, not the ordinary powder, the

supply of which, I think, should remain untouched, but the pyroxyle which

will never fail us."

"Can the cannon support the shock of the pyroxyle?" asked the report er,

who was not less anxious than Pencroft to try the artillery of Grani te

House.

"I believe so. However," added the engineer, "we will be prudent." The engineer was right in thinking that the guns were of excellent make.

Made of forged steel, and breech-loaders, they ought consequently to be

able to bear a considerable charge, and also have an enormous range.

fact, as regards practical effect, the transit described by the ball ought

to be as extended as possible, and this tension could only be obtain ed

under the condition that the projectile should be impelled with a very \mathbf{r}

great initial velocity.

"Now," said Harding to his companions, "the initial velocity is in proportion to the quantity of powder used. In the fabrication of the se

pieces, everything depends on employing a metal with the highest possible

power of resistance, and steel is incontestably that metal of all others

which resists the best. I have, therefore, reason to believe that ou

r guns

will bear without risk the expansion of the pyroxyle gas, and will g ive

excellent results."

"We shall be a great deal more certain of that when we have tried th em!" answered Pencroft.

It is unnecessary to say that the four cannons were in perfect order

Since they had been taken from the water, the sailor had bestowed great

care upon them. How many hours he had spent, in rubbing, greasing, a nd

polishing them, and in cleaning the mechanism! And now the pieces we re as

brilliant as if they had been on board a frigate of the United State s Navy.

On this day, therefore, in presence of all the members of the colony

including Master Jup and Top, the four cannon were successively trie d. They

were charged with pyroxyle, taking into consideration its explosive power,

which, as has been said, is four times that of ordinary powder: the projectile to be fired was cylindroconic.

Pencroft, holding the end of the quick-match, stood ready to fire.

At Harding's signal, he fired. The shot, passing over the islet, fel

into the sea at a distance which could not be calculated with exactitude.

The second gun was pointed at the rocks at the end of Flotsam Point, and

the shot striking a sharp rock nearly three miles from Granite House , made

it fly into splinters. It was Herbert who had pointed this gun and fired

it, and very proud he was of his first shot. Pencroft only was proud er than

he! Such a shot, the honor of which belonged to his dear boy.

The third shot, aimed this time at the downs forming the upper side of

Union Bay, struck the sand at a distance of four miles, then having ricocheted: was lost in the sea in a cloud of spray.

For the fourth piece Cyrus Harding slightly increased the charge, so as

to try its extreme range. Then, all standing aside for fear of its bursting, the match was lighted by means of a long cord.

A tremendous report was heard, but the piece had held good, and the colonists rushing to the windows, saw the shot graze the rocks of Mandible

Cape, nearly five miles from Granite House, and disappear in Shark Gulf.

"Well, captain," exclaimed Pencroft, whose cheers might have rivaled the

reports themselves, "what do you say of our battery? All the pirates in the

Pacific have only to present themselves before Granite House! Not on e can

land there now without our permission!"

"Believe me, Pencroft," replied the engineer, "it would be better no t to

have to make the experiment."

"Well," said the sailor, "what ought to be done with regard to those six

villains who are roaming about the island? Are we to leave them to o verrun

our forests, our fields, our plantations? These pirates are regular jaguars, and it seems to me we ought not to hesitate to treat them a s such!

What do you think, Ayrton?" added Pencroft, turning to his companion .

Ayrton hesitated at first to reply, and Cyrus Harding regretted that

Pencroft had so thoughtlessly put this question. And he was much moved when

Ayrton replied in a humble tone, --

"I have been one of those jaguars, Mr. Pencroft. I have no right to speak."

And with a slow step he walked away.

Pencroft understood.

"What a brute I am!" he exclaimed. "Poor Ayrton! He has as much right to

speak here as any one!"

"Yes," said Gideon Spilett, "but his reserve does him honor, and it is

right to respect the feeling which he has about his sad past."

"Certainly, Mr. Spilett," answered the sailor, "and there is no fear of

my doing so again. I would rather bite my tongue off than cause Ayrt on any

pain! But to return to the question. It seems to me that these ruffi ans

have no right to any pity, and that we ought to rid the island of th

em as soon as possible."

"Is that your opinion, Pencroft?" asked the engineer.

"Quite my opinion."

"And before hunting them mercilessly, you would not wait until they had committed some fresh act of hostility against us?"

"Isn't what they have done already enough?" asked Pencroft, who did not understand these scruples.

"They may adopt other sentiments!" said Harding, "and perhaps repent."

"They repent!" exclaimed the sailor, shrugging his shoulders.

"Pencroft, think of Ayrton!" said Herbert, taking the sailor's hand.
"He

became an honest man again!"

Pencroft looked at his companions one after the other. He had never thought of his proposal being met with any objection. His rough nature

could not allow that they ought to come to terms with the rascals who had

landed on the island with Bob Harvey's accomplices, the murderers of the

crew of the "Speedy," and he looked upon them as wild beasts which ought to

be destroyed without delay and without remorse.

"Come!" said be. "Everybody is against me! You wish to be generous to those villains! Very well; I hope we mayn't repent it!"

"What danger shall we run," said Herbert, "if we take care to be alw ays on our guard?"

"Hum!" observed the reporter, who had not given any decided opinion.

"They are six and well armed. If they each lay hid in a corner, and each

fired at one of us, they would soon be masters of the colony!"

"Why have they not done so?" said Herbert. "No doubt because it was not their interest to do it. Besides, we are six also."

"Well, well!" replied Pencroft, whom no reasoning could have convinced.

"Let us leave these good people to do what they like, and don't thin

k

anything more about them!"

"Come, Pencroft," said Neb, "don't make yourself out so bad as all that!
Suppose one of these unfortunate men were here before you, within go

range of your guns, you would not fire."

"I would fire on him as I would on a mad dog, Neb," replied Pencroft coldly.

"Pencroft," said the engineer, "you have always shown much deference to my advice; will you, in this matter, yield to me?"

"I will do as you please, Captain Harding," answered the sailor, who was not at all convinced.

"Very well, wait, and we will not attack them unless we are attacked first."

Thus their behavior towards the pirates was agreed upon, although Pencroft augured nothing good from it. They were not to attack them, but

were to be on their guard. After all, the island was large and fertile. If

any sentiment of honesty yet remained in the bottom of their hearts, these

wretches might perhaps be reclaimed. Was it not their interest in the

situation in which they found themselves to begin a new life? At any rate,

for humanity's sake alone, it would be right to wait. The colonists would

no longer as before, be able to go and come without fear. Hitherto t hey had

only wild beasts to guard against, and now six convicts of the worst

description, perhaps, were roaming over their island. It was serious

certainly, and to less brave men, it would have been security lost!

matter! At present, the colonists had reason on their side against Pencroft. Would they be right in the future? That remained to be see n.

Chapter 6

However, the chief business of the colonists was to make that comple te exploration of the island which had been decided upon, and which wou ld have

two objects: to discover the mysterious being whose existence was no $\ensuremath{\mathtt{w}}$

pirates, what retreat they had chosen, what sort of life they were leading,

and what was to be feared from them. Cyrus Harding wished to set out

without delay; but as the expedition would be of some days duration, it

appeared best to load the cart with different materials and tools in order

to facilitate the organization of the encampments. One of the onager s,

however, having hurt its leg, could not be harnessed at present, and a few

days' rest was necessary. The departure was, therefore, put off for a week,

until the 20th of November. The month of November in this latitude corresponds to the month of May in the northern zones. It was, there fore,

the fine season. The sun was entering the tropic of Capricorn, and g ave the

longest days in the year. The time was, therefore, very favorable for the $\ensuremath{\text{r}}$

projected expedition, which, if it did not accomplish its principal object,

would at any rate be fruitful in discoveries, especially of natural productions, since Harding proposed to explore those dense forests of the

Far West, which stretched to the extremity of the Serpentine Peninsu la.

During the nine days which preceded their departure, it was agreed that

the work on Prospect Heights should be finished off.

Moreover, it was necessary for Ayrton to return to the corral, where

domesticated animals required his care. It was decided that he shoul d spend

two days there, and return to Granite House after having liberally supplied

the stables.

As he was about to start, Harding asked him if he would not like one of

them to accompany him, observing that the island was less safe than formerly. Ayrton replied that this was unnecessary, as he was enough for

the work, and that besides he apprehended no danger. If anything occ urred

at the corral, or in the neighborhood, he could instantly warn the colonists by sending a telegram to Granite House.

Ayrton departed at dawn on the 9th, taking the cart drawn by one ona ger,

and two hours after, the electric wire announced that he had found a ll in

order at the corral.

During these two days Harding busied himself in executing a project which

would completely guard Granite House against any surprise. It was ne cessary

to completely conceal the opening of the old outlet, which was alrea dy

walled up and partly hidden under grass and plants, at the southern angle

of Lake Grant. Nothing was easier, since if the level of the lake was

raised two or three feet, the opening would be quite beneath it. Now , to

raise this level they had only to establish a dam at the two opening s made

by the lake, and by which were fed Creek Glycerine and Falls River.

The colonists worked with a will, and the two dams which besides did not

exceed eight feet in width by three in height, were rapidly erected by

means of well-cemented blocks of stone.

This work finished, it would have been impossible to guess that at that part of the lake, there existed a subterranean passage through which the overflow of the lake formerly escaped.

Of course the little stream which fed the reservoir of Granite House and

worked the lift, had been carefully preserved, and the water could n ot

fail. The lift once raised, this sure and comfortable retreat would be safe

from any surprise.

This work had been so quickly done, that Pencroft, Gideon Spilett, a

Herbert found time to make an expedition to Port Balloon, The sailor was

very anxious to know if the little creek in which the "Bonadventure" was

moored, had been visited by the convicts.

"These gentlemen," he observed, "landed on the south coast, and if they $\ensuremath{\mathsf{L}}$

followed the shore, it is to be feared that they may have discovered the

little harbor, and in that case, I wouldn't give half-a-dollar for our

'Bonadventure.'"

Pencroft's apprehensions were not without foundation, and a visit to Port

Balloon appeared to be very desirable. The sailor and his companions set

off on the 10th of November, after dinner, well armed. Pencroft, ostentatiously slipping two bullets into each barrel of his rifle, shook

his head in a way which betokened nothing good to any one who approached

too near him, whether "man or beast," as he said. Gideon Spilett and

Herbert also took their guns, and about three o'clock all three left Granite House.

Neb accompanied them to the turn of the Mercy, and after they had crossed, he raised the bridge. It was agreed that a gunshot should a nnounce

the colonists' return, and that at the signal Neb should return and reestablish the communication between the two banks of the river.

The little band advanced directly along the road which led to the southern coast of the island. This was only a distance of three mile s and a

half, but Gideon Spilett and his companions took two hours to traver se it.

They examined all the border of the road, the thick forest, as well as

Tabor Marsh. They found no trace of the fugitives who, no doubt, not having

yet discovered the number of the colonists, or the means of defense which

they had at their disposal, had gained the less accessible parts of the island.

Arrived at Port Balloon, Pencroft saw with extreme satisfaction that

"Bonadventure" was tranquilly floating in the narrow creek. However, Port

Balloon was so well hidden among high rocks, that it could scarcely be

discovered either from the land or the sea.

"Come," said Pencroft, "the blackguards have not been there yet. Lon g grass suits reptiles best, and evidently we shall find them in the F ar West."

"And it's very lucky, for if they had found the 'Bonadventure'," add ed

Herbert, "they would have gone off in her, and we should have been prevented from returning to Tabor Island."

"Indeed," remarked the reporter, "it will be important to take a doc

ument

there which will make known the situation of Lincoln Island, and Ayr ton's

new residence, in case the Scotch yacht returns to fetch him."

"Well, the 'Bonadventure' is always there, Mr. Spilett," answered the sailor. "She and her crew are ready to start at a moment's notice!"

"I think, Pencroft, that that is a thing to be done after our explor ation

of the island is finished. It is possible after all that the strange ${\tt r}$, if

we manage to find him, may know as much about Tabor Island as about Lincoln

Island. Do not forget that he is certainly the author of the documen t , and

he may, perhaps, know how far we may count on the return of the yach t!

"But!" exclaimed Pencroft, "who in the world can he be? The fellow k nows

us and we know nothing about him! If he is a simple castaway, why sh ould he

conceal himself! We are honest men, I suppose, and the society of honest

men isn't unpleasant to any one. Did he come here voluntarily? Can he leave

the island if he likes? Is he here still? Will he remain any longer?

Chatting thus, Pencroft, Gideon Spilett, and Herbert got on board an d

looked about the deck of the "Bonadventure." All at once, the sailor having

examined the bitts to which the cable of the anchor was secured, --

"Hallo," he cried, "this is queer!"

"What is the matter, Pencroft?" asked the reporter.

"The matter is, that it was not I who made this knot!"

And Pencroft showed a rope which fastened the cable to the bitt itse lf.

"What, it was not you?" asked Gideon Spilett.

"No! I can swear to it. This is a reef knot, and I always make a run ning bowline."

"You must be mistaken, Pencroft."

"I am not mistaken!" declared the sailor. "My hand does it so natura lly,

and one's hand is never mistaken!"

"Then can the convicts have been on board?" asked Herbert.

"I know nothing about that," answered Pencroft, "but what is certain, is

that some one has weighed the 'Bonadventure's' anchor and dropped it again!

And look here, here is another proof! The cable of the anchor has be en run

out, and its service is no longer at the hawse-hole. I repeat that some one

has been using our vessel!"

"But if the convicts had used her, they would have pillaged her, or rather gone off with her."

"Gone off! where to--to Tabor Island?" replied Pencroft. "Do you think,

they would risk themselves in a boat of such small tonnage?"

"We must, besides, be sure that they know of the islet," rejoined the reporter.

"However that may be," said the sailor, "as sure as my name is Bonadventure Pencroft, of the Vineyard, our 'Bonadventure' has saile d without us!"

The sailor was positive that neither Gideon Spilett nor Herbert could

dispute his statement. It was evident that the vessel had been moved , more

or less, since Pencroft had brought her to Port Balloon. As to the sailor,

he had not the slightest doubt that the anchor had been raised and then

dropped again. Now, what was the use of these two maneuvers, unless the

vessel had been employed in some expedition?

"But how was it we did not see the 'Bonadventure' pass in the sight of

the island?" observed the reporter, who was anxious to bring forward every

possible objection.

"Why, Mr. Spilett," replied the sailor, "they would only have to start in

the night with a good breeze, and they would be out of sight of the island

in two hours."

"Well," resumed Gideon Spilett, "I ask again, what object could the convicts have had in using the 'Bonadventure,' and why, after they h

ad made use of her, should they have brought her back to port?"

"Why, Mr. Spilett," replied the sailor, "we must put that among the unaccountable things, and not think anything more about it. The chief thing

is that the 'Bonadventure' was there, and she is there now. Only, unfortunately, if the convicts take her a second time, we shall very likely

not find her again in her place!"

"Then, Pencroft," said Herbert, "would it not be wisest to bring the

'Bonadventure' off to Granite House?"

"Yes and no," answered Pencroft, "or rather no. The mouth of the Mer cy is a bad place for a vessel, and the sea is heavy there."

"But by hauling her up on the sand, to the foot of the Chimneys?"

"Perhaps yes," replied Pencroft. "At any rate, since we must leave Granite House for a long expedition, I think the 'Bonadventure' will be

safer here during our absence, and we shall do best to leave her her e until

the island is rid of these blackguards."

"That is exactly my opinion," said the reporter. "At any rate in the event of bad weather, she will not be exposed here as she would be a title mouth of the Mercy."

"But suppose the convicts pay her another visit," said Herbert.

"Well, my boy," replied Pencroft, "not finding her here, they would not

be long in finding her on the sands of Granite House, and, during our

absence, nothing could hinder them from seizing her! I agree, theref ore,

with Mr. Spilett, that she must be left in Port Balloon. But, if on our

return we have not rid the island of those rascals, it will be prude nt to

bring our boat to Granite House, until the time when we need not fear any

unpleasant visits."

"That's settled. Let us be off," said the reporter.

Pencroft, Herbert, and Gideon Spilett, on their return to Granite House,

told the engineer all that had passed, and the latter approved of their

arrangements both for the present and the future. He also promised the

sailor that he would study that part of the channel situated between the

islet and the coast, so as to ascertain if it would not be possible to make

an artificial harbor there by means of dams. In this way, the "Bonadventure" would be always within reach, under the eyes of the colonists, and if necessary, under lock and key.

That evening a telegram was sent to Ayrton, requesting him to bring from

the corral a couple of goats, which Neb wished to acclimatize to the

plateau. Singularly enough, Ayrton did not acknowledge the receipt of the

despatch, as he was accustomed to do. This could not but astonish the

engineer. But it might be that Ayrton was not at that moment in the corral,

or even that he was on his way back to Granite House. In fact, two days had

already passed since his departure, and it had been decided that on the

evening of the 10th or at the latest the morning of the 11th, he should

return. The colonists waited, therefore, for Ayrton to appear on Pro spect

Heights. Neb and Herbert even watched at the bridge so as to be read y to

lower it the moment their companion presented himself.

But up to ten in the evening, there were no signs of Ayrton. It was,

therefore, judged best to send a fresh despatch, requiring an immediate reply.

The bell of the telegraph at Granite House remained mute.

The colonists' uneasiness was great. What had happened? Was Ayrton n

longer at the corral, or if he was still there, had he no longer con trol

over his movements? Could they go to the corral in this dark night?

They consulted. Some wished to go, the others to remain.

"But," said Herbert, "perhaps some accident has happened to the telegraphic apparatus, so that it works no longer?"

"That may be," said the reporter.

"Wait till to-morrow," replied Cyrus Harding. "It is possible, indee d, that Ayrton has not received our despatch, or even that we have not

received his."

They waited, of course not without some anxiety.

At dawn of day, the 11th of November, Harding again sent the electric current along the wire and received no reply.

He tried again: the same result.

"Off to the corral," said he.

"And well armed!" added Pencroft.

It was immediately decided that Granite House should not be left alo ne

and that Neb should remain there. After having accompanied his frien ds to

Creek Glycerine, he raised the bridge; and waiting behind a tree he watched

for the return of either his companions or Ayrton.

In the event of the pirates presenting themselves and attempting to force

the passage, he was to endeavor to stop them by firing on them, and as a

last resource he was to take refuge in Granite House, where, the lift once

raised, he would be in safety.

Cyrus Harding, Gideon Spilett, Herbert, and Pencroft were to repair to the

corral, and if they did not find Ayrton, search the neighboring wood s.

At six o'clock in the morning, the engineer and his three companions had

passed Creek Glycerine, and Neb posted himself behind a small mound crowned

by several dragon trees, on the left bank of the stream.

The colonists, after leaving the plateau of Prospect Heights, immediately

took the road to the corral. They shouldered their guns, ready to fi

the slightest hostile demonstration. The two rifles and the two guns had

been loaded with ball.

The wood was thick on each side of the road and might easily have concealed the convicts, who owing to their weapons would have been really $\frac{1}{2}$

formidable.

The colonists walked rapidly and in silence. Top preceded them, some times

running on the road, sometimes taking a ramble into the wood, but always

quiet and not appearing to fear anything unusual. And they could be sure

that the faithful dog would not allow them to be surprised, but would bark

at the least appearance of danger.

Cyrus Harding and his companions followed beside the road the wire \boldsymbol{w} hich

connected the corral with Granite House. After walking for nearly two

miles, they had not as yet discovered any explanation of the difficulty.

The posts were in good order, the wire regularly extended. However, at that

moment the engineer observed that the wire appeared to be slack, and on

arriving at post No. 74, Herbert, who was in advance stopped, exclaiming,--

"The wire is broken!"

His companions hurried forward and arrived at the spot where the lad

standing. The post was rooted up and lying across the path. The unex pected

explanation of the difficulty was here, and it was evident that the despatches from Granite House had not been received at the corral, n or

those from the corral at Granite House.

"It wasn't the wind that blew down this post," observed Pencroft.

"No," replied Gideon Spilett. "The earth has been dug up round its foot,

and it has been torn up by the hand of man."

"Besides, the wire is broken," added Herbert, showing that the wire had been snapped.

"Is the fracture recent?" asked Harding.

"Yes," answered Herbert, "it has certainly been done quite lately."

"To the corral! to the corral!" exclaimed the sailor.

The colonists were now half way between Granite House and the corral, having still two miles and a half to go. They pressed forward with redoubled speed.

Indeed, it was to be feared that some serious accident had occurred in

the corral. No doubt, Ayrton might have sent a telegram which had no

t

arrived, but this was not the reason why his companions were so unea sy,

for, a more unaccountable circumstance, Ayrton, who had promised to return

the evening before, had not reappeared. In short, it was not without a

motive that all communication had been stopped between the corral and

Granite House, and who but the convicts could have any interest in interrupting this communication?

The settlers hastened on, their hearts oppressed with anxiety. They were

sincerely attached to their new companion. Were they to find him struck

down by the hands of those of whom he was formerly the leader?

Soon they arrived at the place where the road led along the side of the

little stream which flowed from the Red Creek and watered the meadow ${\bf s}$ of

the corral. They then moderated their pace so that they should not be out

of breath at the moment when a struggle might be necessary. Their guns were

in their hands ready cocked. The forest was watched on every side. Top

uttered sullen groans which were rather ominous.

At last the palisade appeared through the trees. No trace of any dam age

could be seen. The gate was shut as usual. Deep silence reigned in the

corral. Neither the accustomed bleating of the sheep nor Ayrton's voice

could be heard.

"Let us enter," said Cyrus Harding.

And the engineer advanced, while his companions, keeping watch about twenty paces behind him, were ready to fire at a moment's notice.

Harding raised the inner latch of the gate and was about to push it back,

when Top barked loudly. A report sounded and was responded to by a c ry of pain.

Herbert, struck by a bullet, lay stretched on the ground.

Chapter 7

At Herbert's cry, Pencroft, letting his gun fall, rushed towards him

.

"They have killed him!" he cried. "My boy! They have killed him!" Cyrus Harding and Gideon Spilett ran to Herbert.

The reporter listened to ascertain if the poor lad's heart was still beating.

"He lives," said he, "but he must be carried--"

"To Granite House? that is impossible!" replied the engineer.

"Into the corral, then!" said Pencroft.

"In a moment, " said Harding.

And he ran round the left corner of the palisade. There he found a convict, who aiming at him, sent a ball through his hat. In a few se conds,

before he had even time to fire his second barrel, he fell, struck to the

heart by Harding's dagger, more sure even than his gun.

During this time, Gideon Spilett and the sailor hoisted themselves over

the palisade, leaped into the enclosure, threw down the props which supported the inner door, ran into the empty house, and soon, poor H erbert

was lying on Ayrton's bed. In a few moments, Harding was by his side

On seeing Herbert senseless, the sailor's grief was terrible.

He sobbed, he cried, he tried to beat his head against the wall.

Neither the engineer nor the reporter could calm him. They themselve s were choked with emotion. They could not speak.

However, they knew that it depended on them to rescue from death the

boy who was suffering beneath their eyes. Gideon Spilett had not pas

through the many incidents by which his life had been checkered with

acquiring some slight knowledge of medicine. He knew a little of everything, and several times he had been obliged to attend to wound s

produced either by a sword-bayonet or shot. Assisted by Cyrus Hardin g, he

proceeded to render the aid Herbert required.

The reporter was immediately struck by the complete stupor in which Herbert lay, a stupor owing either to the hemorrhage, or to the shoc

k, the

ball having struck a bone with sufficient force to produce a violent concussion.

Herbert was deadly pale, and his pulse so feeble that Spilett only f elt it

beat at long intervals, as if it was on the point of stopping.

These symptoms were very serious.

Herbert's chest was laid bare, and the blood having been stanched with

handkerchiefs, it was bathed with cold water.

The contusion, or rather the contused wound appeared, -- an oval below the

chest between the third and fourth ribs. It was there that $\operatorname{Herbert}$ had been

hit by the bullet.

Cyrus Harding and Gideon Spilett then turned the poor boy over; as they

did so, he uttered a moan so feeble that they almost thought it was his

last sigh.

Herberts back was covered with blood from another contused wound, by which the ball had immediately escaped.

"God be praised!" said the reporter, "the ball is not in the body, a nd we shall not have to extract it."

"But the heart?" asked Harding.

"The heart has not been touched; if it had been, Herbert would be de ad!"

"Dead!" exclaimed Pencroft, with a groan.

The sailor had only heard the last words uttered by the reporter.

"No, Pencroft," replied Cyrus Harding, "no! He is not dead. His puls e still beats. He has even uttered a moan. But for your boy's sake, ca lm yourself. We have need of all our self-possession."

"Do not make us lose it, my friend."

Pencroft was silent, but a reaction set in, and great tears rolled down his cheeks.

In the meanwhile, Gideon Spilett endeavored to collect his ideas, an

proceed methodically. After his examination he had no doubt that the ball,

entering in front, between the seventh and eighth ribs, had issued behind

between the third and fourth. But what mischief had the ball committed in

its passage? What important organs had been reached? A professional surgeon

would have had difficulty in determining this at once, and still more so

the reporter.

However, he knew one thing, this was that he would have to prevent the

inflammatory strangulation of the injured parts, then to contend with the

local inflammation and fever which would result from the wound, perh aps

mortal! Now, what styptics, what antiphiogistics ought to be employe d? By

what means could inflammation be prevented?

At any rate, the most important thing was that the two wounds should be

dressed without delay. It did not appear necessary to Gideon Spilett that a

fresh flow of blood should be caused by bathing them in tepid water, and

compressing their lips. The hemorrhage had been very abundant, and H erbert

was already too much enfeebled by the loss of blood.

The reporter, therefore, thought it best to simply bathe the two wou nds with cold water.

Herbert was placed on his left side, and was maintained in that position

"He must not be moved." said Gideon Spilett. "He is in the most favo rable

position for the wounds in his back and chest to suppurate easily, a nd

absolute rest is necessary."

"What! can't we carry him to Granite House?" asked Pencroft.

"No, Pencroft," replied the reporter.

"I'll pay the villains off!" cried the sailor, shaking his fist in a menacing manner.

"Pencroft!" said Cyrus Harding.

Gideon Spilett had resumed his examination of the wounded boy. Herbert

was still so frightfully pale, that the reporter felt anxious.

"Cyrus," said he, "I am not a surgeon. I am in terrible perplexity. You

must aid me with your advice, your experience!"

"Take courage, my friend," answered the engineer, pressing the reporter's

hand. "Judge coolly. Think only of this: Herbert must be saved!"

These words restored to Gideon Spilett that self-possession which he had

lost in a moment of discouragement on feeling his great responsibility. He

seated himself close to the bed. Cyrus Harding stood near. Pencroft had

torn up his shirt, and was mechanically making lint.

Spilett then explained to Cyrus Harding that he thought he ought fir st of

all to stop the hemorrhage, but not close the two wounds, or cause their

immediate cicatrization, for there had been internal perforation, and the

suppuration must not be allowed to accumulate in the chest.

Harding approved entirely, and it was decided that the two wounds should

be dressed without attempting to close them by immediate coaptation.

And now did the colonists possess an efficacious agent to act agains t the

inflammation which might occur?

Yes. They had one, for nature had generously lavished it. They had cold

water, that is to say, the most powerful sedative that can be employ ed

against inflammation of wounds, the most efficacious therapeutic age nt in

grave cases, and the one which is now adopted by all physicians. Col d water

has, moreover, the advantage of leaving the wound in absolute rest, and

preserving it from all premature dressing, a considerable advantage, since

it has been found by experience that contact with the air is dangerous

during the first days.

Gideon Spilett and Cyrus Harding reasoned thus with their simple goo d

sense, and they acted as the best surgeon would have done. Compresse s of

linen were applied to poor Herbert's two wounds, and were kept const antly

wet with cold water.

The sailor had at first lighted a fire in the hut, which was not wan ting

in things necessary for life. Maple sugar, medicinal plants, the sam e which

the lad had gathered on the banks of Lake Grant, enabled them to make some

refreshing drinks, which they gave him without his taking any notice of it.

His fever was extremely high, and all that day and night passed with out his

becoming conscious.

Herbert's life hung on a thread, and this thread might break at any moment. The next day, the 12th of November, the hopes of Harding and his

companions slightly revived. Herbert had come out of his long stupor . He

opened his eyes, he recognized Cyrus Harding, the reporter, and Pencroft.

He uttered two or three words. He did not know what had happened. They told

him, and Spilett begged him to remain perfectly still, telling him that his

life was not in danger, and that his wounds would heal in a few days

However, Herbert scarcely suffered at all, and the cold water with w hich

they were constantly bathed, prevented any inflammation of the wound s. The

suppuration was established in a regular way, the fever did not increase,

and it might now be hoped that this terrible wound would not involve any

catastrophe. Pencroft felt the swelling of his heart gradually subside. He

was like a sister of mercy. like a mother by the bed of her child.

Herbert dozed again, but his sleep appeared more natural.

"Tell me again that you hope, Mr. Spilett," said Pencroft. "Tell me again

that you will save Herbert!"

"Yes, we will save him!" replied the reporter. "The wound is serious, and, perhaps, even the ball has traversed the lungs, but the perforation of

this organ is not fatal."

"God bless you!" answered Pencroft.

As may be believed, during the four-and-twenty hours they had been in the

corral, the colonists had no other thought than that of nursing Herb ert.

They did not think either of the danger which threatened them should the

convicts return, or of the precautions to be taken for the future.

But on this day, while Pencroft watched by the sick-bed, Cyrus Harding

and the reporter consulted as to what it would be best to do.

First of all they examined the corral. There was not a trace of Ayrt on.

Had the unhappy man been dragged away by his former accomplices? Had he

resisted, and been overcome in the struggle? This last supposition w as only

too probable. Gideon Spilett, at the moment he scaled the palisade, had

clearly seen some one of the convicts running along the southern spur of

Mount Franklin, towards whom Top had sprung. It was one of those who se

object had been so completely defeated by the rocks at the mouth of the

Mercy. Besides, the one killed by Harding, and whose body was found outside

the enclosure, of course belonged to Bob Harvey's crew.

As to the corral, it had not suffered any damage. The gates were closed.

and the animals had not been able to disperse in the forest. Nor could they

see traces of any struggle, any devastation, either in the hut, or in the

palisade. The ammunition only, with which Ayrton had been supplied, had

disappeared with him.

"The unhappy man has been surprised," said Harding, "and as he was a man

to defend himself, he must have been overpowered."

"Yes, that is to be feared!" said the reporter. "Then, doubtless, the

convicts installed themselves in the corral where they found plenty of

everything, and only fled when they saw us coming. It is very eviden t, too,

that at this moment Ayrton, whether living or dead, is not here!"

"We shall have to beat the forest," said the engineer, "and rid the island of these wretches. Pencroft's presentiments were not mistaken, when

he wished to hunt them as wild beasts. That would have spared us all these misfortunes!"

"Yes," answered the reporter, "but now we have the right to be merciless!"

"At any rate," said the engineer, "we are obliged to wait some time, and to remain at the corral until we can carry Herbert without danger to

Granite House."

"But Neb?" asked the reporter.

"Neb is in safety."

"But if, uneasy at our absence, he would venture to come?"

"He must not come!" returned Cyrus Harding quickly. "He would be mur dered

on the road!"

"It is very probable, however, that he will attempt to rejoin us!"

"Ah, if the telegraph still acted, he might be warned! But that is impossible now! As to leaving Pencroft and Herbert here alone, we could not

do it! Well, I will go alone to Granite House."

"No, no! Cyrus," answered the reporter, "you must not expose yoursel f!

Your courage would be of no avail. The villains are evidently watching the

corral, they are hidden in the thick woods which surround it, and if you go

we shall soon have to regret two misfortunes instead of one!"

"But Neb?" repeated the engineer. "It is now four-and-twenty hours s ince

he has had any news of us! He will be sure to come!"

"And as he will be less on his guard than we should be ourselves," a dded

Spilett, "he will be killed!"

"Is there really no way of warning him?"

While the engineer thought, his eyes fell on Top, who, going backwar ds

and forwards seemed to say, --

"Am not I here?"

"Top!" exclaimed Cyrus Harding.

The animal sprang at his master's call.

"Yes, Top will go," said the reporter, who had understood the engine er.

"Top can go where we cannot! He will carry to Granite House the news of

the corral, and he will bring back to us that from Granite House!"

"Quick!" said Harding. "Quick!"

Spilett rapidly tore a leaf from his note-book, and wrote these word s:--

"Herbert wounded. We are at the corral. Be on your guard. Do not leave

Granite House. Have the convicts appeared in the neighborhood? Reply by Top."

This laconic note contained all that Neb ought to know, and at the same

time asked all that the colonists wished to know. It was folded and fastened to Top's collar in a conspicuous position.

"Top, my dog," said the engineer, caressing the animal, "Neb, Top! N eb! Go, go!"

Top bounded at these words. He understood, he knew what was expected of

him. The road to the corral was familiar to him. In less than an hour he

could clear it, and it might be hoped that where neither Cyrus Harding nor

the reporter could have ventured without danger, Top, running among the

grass or in the wood, would pass unperceived.

The engineer went to the gate of the corral and opened it.

"Neb, Top! Neb!" repeated the engineer, again pointing in the direct ion of Granite House.

Top sprang forwards, then almost immediately disappeared.

"He will get there!" said the reporter.

"Yes, and he will come back, the faithful animal!"

"What o'clock is it?" asked Gideon Spilett.

"Ten."

"In an hour he may be here. We will watch for his return."

The gate of the corral was closed. The engineer and the reporter re-entered the house. Herbert was still in a sleep. Pencroft kept the

compresser always wet. Spilett, seeing there was nothing he could do at

that moment, busied himself in preparing some nourishment, while attentively watching that part of the enclosure against the hill, at which

an attack might be expected.

The settlers awaited Top's return with much anxiety. A little before

eleven o'clock, Cyrus Harding and the reporter, rifle in hand, were behind

the gate, ready to open it at the first bark of their dog.

They did not doubt that if Top had arrived safely at Granite House, Neb

would have sent him back immediately.

They had both been there for about ten minutes, when a report was he ard,

followed by repeated barks.

The engineer opened the gate, and seeing smoke a hundred feet off in the wood, he fired in that direction.

Almost immediately Top bounded into the corral, and the gate was quickly shut.

"Top, Top!" exclaimed the engineer, taking the dog's great honest he ad

between his hands.

A note was fastened to his neck, and Cyrus Harding read these words,

traced in Neb's large writing:--"No pirates in the neighborhood of G ranite

House. I will not stir. Poor Mr. Herbert!"

Chapter 8

So the convicts were still there, watching the corral, and determine d to

kill the settlers one after the other. There was nothing to be done but to

treat them as wild beasts. But great precautions must be taken, for just

now the wretches had the advantage on their side, seeing, and not be ing

seen, being able to surprise by the suddenness of their attack, yet not to

be surprised themselves. Harding made arrangements, therefore, for living

in the corral, of which the provisions would last for a tolerable length of

time. Ayrton's house had been provided with all that was necessary for

existence, and the convicts, scared by the arrival of the settlers, had not

had time to pillage it. It was probable, as Gideon Spilett observed, that

things had occurred as follows:

The six convicts, disembarking on the island, had followed the south ern

shore, and after having traversed the double shore of the Serpentine

Peninsula, not being inclined to venture into the Far West woods, they had

reached the mouth of Falls River. From this point, by following the right

bank of the watercourse, they would arrive at the spurs of Mount Franklin,

among which they would naturally seek a retreat, and they could not have

been long in discovering the corral, then uninhabited. There they had

regularly installed themselves, awaiting the moment to put their abominable

schemes into execution. Ayrton's arrival had surprised them, but the y had

managed to overpower the unfortunate man, and—the rest may be easil ${\tt Y}$

imagined!

Now, the convicts, -- reduced to five, it is true, but well armed, --we re

roaming the woods, and to venture there was to expose themselves to their

attacks, which could be neither guarded against nor prevented.

"Wait! There is nothing else to be done!" repeated Cyrus Harding. "When

Herbert is cured, we can organize a general battle of the island, and have

satisfaction of these convicts. That will be the object of our grand

expedition at the same time--"

"As the search for our mysterious protector," added Gideon Spilett, finishing the engineer's sentence. "An, it must be acknowledged, my dear

Cyrus, that this time his protection was wanting at the very moment when it

was most necessary to us!"

"Who knows?" replied the engineer.

"What do you mean?" asked the reporter.

"That we are not at the end of our trouble yet, my dear Spilett, and that

his powerful intervention may have another opportunity of exercising

itself. But that is not the question now. Herbert's life before everything."

This was the colonists' saddest thought. Several days passed, and the

poor boy's state was happily no worse. Cold water, always kept at a suitable temperature, had completely prevented the inflammation of the

wounds. It even seemed to the reporter that this water, being slight ly

sulphurous, --which was explained by the neighborhood of the volcano, had a

more direct action on the healing. The suppuration was much less abundant,

and thanks to the incessant care by which he was surrounded!--Herber t

returned to life, and his fever abated. He was besides subjected to a

severe diet, and consequently his weakness was and would be extreme; but

there was no want of refreshing drinks, and absolute rest was of the

greatest benefit to him. Cyrus Harding, Gideon Spilett, and Pencroft had

become very skilful in dressing the lad's wounds. All the linen in the

house had been sacrificed. Herbert's wounds, covered with compresses and

lint, were pressed neither too much nor too little, so as to cause their

cicatrization without effecting any inflammatory reaction. The reporter

used extreme care in the dressing, knowing well the importance of it, and

repeating to his companions that which most surgeons willingly admit . that

it is perhaps rarer to see a dressing well done than an operation we

performed.

In ten days, on the 22nd of November, Herbert was considerably bette r. He

had begun to take some nourishment.

The color was returning to his cheeks, and his bright eyes smiled at his

nurses. He talked a little, notwithstanding Pencroft's efforts, who talked

incessantly to prevent him from beginning to speak, and told him the

most

improbable stories. Herbert had questioned him on the subject of Ayr ton,

whom he was astonished not to see near him, thinking that he was at the

corral. But the sailor, not wishing to distress Herbert, contented himself

by replying that Ayrton had rejoined Neb, so as to defend Granite House.

"Humph!" said Pencroft, "these pirates! they are gentlemen who have no

right to any consideration! And the captain wanted to win them by kindness!

I'll send them some kindness, but in the shape of a good bullet!"

"And have they not been seen again?" asked Herbert.

"No, my boy," answered the sailor, "but we shall find them, and when you

are cured we shall see if the cowards who strike us from behind will dare

to meet us face to face!"

"I am still very weak, my poor Pencroft!"

"Well! your strength will return gradually! What's a ball through the

chest? Nothing but a joke! I've seen many, and I don't think much of them!"

At last things appeared to be going on well, and if no complication occurred, Herbert's recovery might be regarded as certain. But what would

have been the condition of the colonists if his state had been aggra vated,

-- if, for example, the ball had remained in his body, if his arm or his leg

had had to be amputated?

"No," said Spilett more than once, "I have never thought of such a contingency without shuddering!"

"And yet, if it had been necessary to operate," said Harding one day to

him, "you would not have hesitated?"

"No, Cyrus!" said Gideon Spilett, "but thank God that we have been spared

this complication!"

As in so many other conjectures, the colonists had appealed to the logic

of that simple good sense of which they had made use so often, and o nce

more, thanks to their general knowledge, it had succeeded! But might

not a

time come when all their science would be at fault? They were alone on the

island. Now, men in all states of society are necessary to each other.

Cyrus Harding knew this well, and sometimes he asked if some circums tance

might not occur which they would be powerless to surmount. It appear ed to

him besides, that he and his companions, till then so fortunate, had

entered into an unlucky period. During the two years and a half which had

elapsed since their escape from Richmond, it might be said that they had

had everything their own way. The island had abundantly supplied the m with

minerals, vegetables, animals, and as Nature had constantly loaded t hem,

their science had known how to take advantage of what she offered them.

The wellbeing of the colony was therefore complete. Moreover, in certain

occurrences an inexplicable influence had come to their aid!... But all

that could only be for a time.

In short, Cyrus Harding believed that fortune had turned against the m.

In fact, the convicts' ship had appeared in the waters of the island . and

if the pirates had been, so to speak, miraculously destroyed, six of them,

at least, had escaped the catastrophe. They had disembarked on the i sland,

and it was almost impossible to get at the five who survived. Ayrton had no

doubt been murdered by these wretches, who possessed firearms, and a t the

first use that they had made of them, Herbert had fallen, wounded al most

mortally. Were these the first blows aimed by adverse fortune at the

colonists? This was often asked by Harding. This was often repeated by the

reporter; and it appeared to him also that the intervention, so strange,

yet so efficacious, which till then had served them so well, had now failed

them. Had this mysterious being, whatever he was, whose existence could not

be denied, abandoned the island? Had he in his turn succumbed?

No reply was possible to these questions. But it must not be imagine

d that because Harding and his companions spoke of these things, they were

men to despair. Far from that. They looked their situation in the face,

they analyzed the chances, they prepared themselves for any event, they

stood firm and straight before the future, and if adversity was at l ast to

strike them, it would find in them men prepared to struggle against it.

Chapter 9

The convalescence of the young invalid was regularly progressing. On e thing

only was now to be desired, that his state would allow him to be brought to

Granite House. However well built and supplied the corral house was, it

could not be so comfortable as the healthy granite dwelling. Besides , it

did not offer the same security, and its tenants, notwithstanding their

watchfulness, were here always in fear of some shot from the convict s.

There, on the contrary, in the middle of that impregnable and inacce ssible

cliff, they would have nothing to fear, and any attack on their persons

would certainly fail. They therefore waited impatiently for the mome nt when

Herbert might be moved without danger from his wound, and they were determined to make this move, although the communication through Jac amar

Wood was very difficult.

They had no news from Neb, but were not uneasy on that account. The courageous Negro, well entrenched in the depths of Granite House, wo uld not

allow himself to be surprised. Top had not been sent again to him, a s it

appeared useless to expose the faithful dog to some shot which might

deprive the settlers of their most useful auxiliary.

They waited, therefore, although they were anxious to be reunited at

Granite House. It pained the engineer to see his forces divided, for it

gave great advantage to the pirates. Since Ayrton's disappearance they were

only four against five, for Herbert could not yet be counted, and this was

not the least care of the brave boy, who well understood the trouble

of which he was the cause.

The question of knowing how, in their condition, they were to act against

the pirates, was thoroughly discussed on the 29th of November by Cyrus

Harding, Gideon Spilett, and Pencroft, at a moment when Herbert was asleep

and could not hear them.

"My friends," said the reporter, after they had talked of Neb and of the

impossibility of communicating with him, "I think, --like you, that to

venture on the road to the corral would be to risk receiving a gunsh ot

without being able to return it. But do you not think that the best thing

to be done now is to openly give chase to these wretches?"

"That is just what I was thinking," answered Pencroft. "I believe we 're

not fellows to be afraid of a bullet, and as for me, if Captain Harding

approves, I'm ready to dash into the forest! Why, hang it, one man is equal

to another!"

"But is he equal to five?" asked the engineer.

"I will join Pencroft," said the reporter, "and both of us, well-arm ed and accompanied by Top--"

"My dear Spilett, and you, Pencroft," answered Harding, "let us reas on

coolly. If the convicts were hid in one spot of the island, if we kn ew that

spot, and had only to dislodge them, I would undertake a direct attack; but

is there not occasion to fear, on the contrary, that they are sure to fire

the first shot?"

"Well, captain," cried Pencroft, "a bullet does not always reach its mark."

"That which struck Herbert did not miss, Pencroft," replied the engineer.

"Besides, observe that if both of you left the corral I should remain here

alone to defend it. Do you imagine that the convicts will not see you leave

it, that they will not allow you to enter the forest, and that they

will

not attack it during your absence, knowing that there is no one here but a wounded boy and a man?"

"You are right, captain," replied Pencroft, his chest swelling with sullen anger. "You are right; they will do all they can to retake the

corral, which they know to be well stored; and alone you could not h old it against them."

.....

"Oh, if we were only at Granite House!"

"If we were at Granite House," answered the engineer, "the case would be

very different. There I should not be afraid to leave Herbert with o ne,

while the other three went to search the forests of the island. But we are

at the corral, and it is best to stay here until we can leave it tog ether."

Cyrus Harding's reasoning was unanswerable, and his companions under stood it well.

"If only Ayrton was still one of us!" said Gideon Spilett. "Poor fellow!

his return to social life will have been but of short duration."

"If he is dead," added Pencroft, in a peculiar tone.

"Do you hope, then, Pencroft, that the villains have spared him?" as ked Gideon Spilett.

"Yes, if they had any interest in doing so."

"What! you suppose that Ayrton finding his old companions, forgetting

all that he owes us--"

"Who knows?" answered the sailor, who did not hazard this shameful supposition without hesitating.

"Pencroft," said Harding, taking the sailor's arm, "that is a wicked idea

of yours, and you will distress me much if you persist in speaking thus. I

will answer for Ayrton's fidelity."

"And I also," added the reporter quickly.

"Yes, yes, captain, I was wrong," replied Pencroft; "it was a wicked idea

indeed that I had, and nothing justifies it. But what can I do? I'm not in $% \left\{ 1\right\} =\left\{ 1\right\}$

 $\ensuremath{\mathsf{my}}$ senses. This imprisonment in the corral wearies me horribly, and I have

never felt so excited as I do now.

"Be patient, Pencroft," replied the engineer. "How long will it be, my

dear Spilett, before you think Herbert may be carried to Granite Hou se?"

"That is difficult to say, Cyrus," answered the reporter, "for any imprudence might involve terrible consequences. But his convalescence is

progressing, and if he continues to gain strength, in eight days from now--

well, we shall see."

Eight days! That would put off the return to Granite House until the

first days of December. At this time two months of spring had alread y

passed. The weather was fine, and the heat began to be great. The forests

of the island were in full leaf, and the time was approaching when the

usual crops ought to be gathered. The return to the plateau of Prosp ect

Heights would, therefore, be followed by extensive agricultural labors,

interrupted only by the projected expedition through the island.

It can, therefore, be well understood how injurious this seclusion in the

corral must have been to the colonists.

But if they were compelled to bow before necessity, they did not do so without impatience.

Once or twice the reporter ventured out into the road and made the tour

of the palisade. Top accompanied him, and Gideon Spilett, his gun cocked,

was ready for any emergency.

He met with no misadventure and found no suspicious traces. His dog would

have warned him of any danger, and, as Top did not bark, it might be

concluded that there was nothing to fear at the moment at least, and that

the convicts were occupied in another part of the island.

However, on his second sortie, on the 27th of November, Gideon Spile tt,

who had ventured a quarter of a mile into the woods, towards the sou th of

the mountain, remarked that Top scented something. The dog had no longer

his unconcerned manner; he went backwards and forwards, ferreting am ong

the grass and bushes as if his smell had revealed some suspicious object to

him.

Gideon Spilett followed Top, encouraged him, excited him by his voic e,
while keeping a sharp look-out, his gun ready to fire, and sheltering

while keeping a sharp look-out, his gun ready to fire, and shelterin g

himself behind the trees. It was not probable that Top scented the p resence

of man, for in that case, he would have announced it by half-uttered

sullen, angry barks. Now, as he did not growl, it was because danger was

neither near nor approaching.

Nearly five minutes passed thus, Top rummaging, the reporter following

him prudently when, all at once, the dog rushed towards a thick bush , and $% \left(1\right) =\left(1\right) +\left(1\right)$

drew out a rag.

It was a piece of cloth, stained and torn, which Spilett immediately

brought back to the corral. There it was examined by the colonists, who

found that it was a fragment of Ayrton's waistcoat, a piece of that felt,

manufactured solely by the Granite House factory.

"You see, Pencroft," observed Harding, "there has been resistance on the

part of the unfortunate Ayrton. The convicts have dragged him away in spite $% \left(1\right) =\left(1\right) +\left(1\right)$

of himself! Do you still doubt his honesty?"

"No, captain," answered the sailor, "and I repented of my suspicion a

long time ago! But it seems to me that something may be learned from the incident."

"What is that?" asked the reporter.

"It is that Ayrton was not killed at the corral! That they dragged \boldsymbol{h} im

away living, since he has resisted. Therefore, perhaps, he is still living!"

"Perhaps, indeed," replied the engineer, who remained thoughtful.

This was a hope, to which Ayrton's companions could still hold. Indeed,

they had before believed that, surprised in the corral, Ayrton had fallen

by a bullet, as Herbert had fallen. But if the convicts had not kill ed him

at first, if they had brought him living to another part of the island,

might it not be admitted that he was still their prisoner? Perhaps, even,

one of them had found in Ayrton his old Australian companion Ben Joy ce, the

chief of the escaped convicts. And who knows but that they had conce ived

the impossible hope of bringing back Ayrton to themselves? He would have

been very useful to them, if they had been able to make him turn traitor!

This incident was, therefore, favorably interpreted at the corral, a nd it

no longer appeared impossible that they should find Ayrton again. On his

side, if he was only a prisoner, Ayrton would no doubt do all he could to

escape from the hands of the villains, and this would be a powerful aid to

the settlers!

"At any rate," observed Gideon Spilett, "if happily Ayrton did manag e to

escape, he would go directly to Granite House, for he could not know of the

attempted assassination of which Herbert has been a victim, and consequently would never think of our being imprisoned in the corral ."

"Oh! I wish that he was there, at Granite House!" cried Pencroft, "and

that we were there, too! For, although the rascals can do nothing to our

house, they may plunder the plateau, our plantations, our poultry-yard!"

Pencroft had become a thorough farmer, heartily attached to his crop s.

But it must be said that Herbert was more anxious than any to return

Granite House, for he knew how much the presence of the settlers was needed

there. And it was he who was keeping them at the corral! Therefore, one

idea occupied his mind--to leave the corral, and when! He believed he could

bear removal to Granite House. He was sure his strength would return

more

quickly in his room, with the air and sight of the sea!

Several times he pressed Gideon Spilett, but the latter, fearing, with

good reason, that Herbert's wounds, half healed, might reopen on the way,

did not give the order to start.

However, something occurred which compelled Cyrus Harding and his two

friends to yield to the lad's wish, and God alone knew that this determination might cause them grief and remorse.

It was the 29th of November, seven o'clock in the evening. The three

settlers were talking in Herbert's room, when they heard Top utter quick barks.

Harding, Pencroft, and Spilett seized their guns and ran out of the house. Top, at the foot of the palisade, was jumping, barking, but it was with pleasure, not anger.

"Some one is coming."

"Yes."

"It is not an enemy!"

"Neb, perhaps?"

"Or Ayrton?"

These words had hardly been exchanged between the engineer and his two

companions when a body leaped over the palisade and fell on the ground $\ensuremath{\mathsf{n}}$

inside the corral.

It was Jup, Master Jup in person, to whom Top immediately gave a mos t cordial reception.

"Jup!" exclaimed Pencroft.

"Neb has sent him to us," said the reporter.

"Then," replied the engineer, "he must have some note on him."

Pencroft rushed up to the orang. Certainly if Neb had any important matter to communicate to his master he could not employ a more sure or more

rapid messenger, who could pass where neither the colonists could, n

or even Top himself.

ld have

Cyrus Harding was not mistaken. At Jup's neck hung a small bag, and in this bag was found a little note traced by Neb's hand.

The despair of Harding and his companions may be imagined when they read these words:--

"Friday, six o'clock in the morning.

"Plateau invaded by convicts.

"Neb."

They gazed at each other without uttering a word, then they re-enter ed the house. what were they to do? The convicts on Prospect Heights! that was disaster, devastation, ruin.

Herbert, on seeing the engineer, the reporter, and Pencroft re-enter, guessed that their situation was aggravated, and when he saw Jup, he no longer doubted that some misfortune menaced Granite House.

"Captain Harding," said he, "I must go; I can bear the journey. I must go."

Gideon Spilett approached Herbert; then, having looked at him,-"Let us go, then!" said he.

The question was quickly decided whether Herbert should be carried on a litter or in the cart which had brought Ayrton to the corral. The motion of the litter would have been more easy for the wounded lad, but it wou

necessitated two bearers, that is to say, there would have been two guns

less for defense if an attack was made on the road. Would they not, on the

contrary, by employing the cart leave every arm free? Was it impossible to

place the mattress on which Herbert was lying in it, and to advance with so

much care that any jolt should be avoided? It could be done.

The cart was brought. Pencroft harnessed the onager. Cyrus Harding a

nd

the reporter raised Herbert's mattress and placed it on the bottom of the

cart. The weather was fine. The sun's bright rays glanced through the trees.

"Are the guns ready?" asked Cyrus Harding.

They were. The engineer and Pencroft, each armed with a double-barre led

gun, and Gideon Spilett carrying his rifle, had nothing to do but st art.

"Are you comfortable, Herbert?" asked the engineer.

"Ah, captain," replied the lad, "don't be uneasy, I shall not die on the road!"

While speaking thus, it could be seen that the poor boy had called up all

his energy, and by the energy of a powerful will had collected his failing strength.

The engineer felt his heart sink painfully. He still hesitated to give the signal for departure; but that would have driven Herbert to despair--killed him perhaps.

"Forward!" said Harding.

The gate of the corral was opened. Jup and Top, who knew when to be silent, ran in advance. The cart came out, the gate was reclosed, and the

onager, led by Pencroft, advanced at a slow pace.

Certainly, it would have been safer to have taken a different road than

that which led straight from the corral to Granite House, but the cart.

would have met with great difficulties in moving under the trees. It was

necessary, therefore, to follow this way, although it was well known to the convicts.

Cyrus Harding and Gideon Spilett walked one on each side of the cart, ready to answer to any attack. However, it was not probable that the convicts would have yet left the plateau of Prospect Heights.

Neb's note had evidently been written and sent as soon as the convic ts had shown themselves there. Now, this note was dated six o'clock in the

morning, and the active orang, accustomed to come frequently to the corral,

had taken scarcely three quarters of an hour to cross the five miles which

separated it from Granite House. They would, therefore, be safe at that

time, and if there was any occasion for firing, it would probably no t be

until they were in the neighborhood of Granite House. However, the colonists kept a strict watch. Top and Jup, the latter armed with his club,

sometimes in front, sometimes beating the wood at the sides of the road,

signalized no danger.

The cart advanced slowly under Pencroft's guidance. It had left the corral at half-past seven. An hour after, four out of the five miles had

been cleared, without any incident having occurred. The road was as deserted as all that part of the Jacamar Wood which lay between the Mercy

and the lake. There was no occasion for any warning. The wood appear ed as

deserted as on the day when the colonists first landed on the island .

They approached the plateau. Another mile and they would see the bri dge

over Creek Glycerine. Cyrus Harding expected to find it in its place;

supposing that the convicts would have crossed it, and that, after \boldsymbol{h} aving

passed one of the streams which enclosed the plateau, they would have taken

the precaution to lower it again, so as to keep open a retreat.

At length an opening in the trees allowed the sea-horizon to be seen . But

the cart continued its progress, for not one of its defenders though t of

abandoning it.

At that moment Pencroft stopped the onager, and in a hoarse voice, --

"Oh! the villains!" he exclaimed.

And he pointed to a thick smoke rising from the mill, the sheds, and the

buildings at the poultry-yard.

A man was moving about in the midst of the smoke. It was Neb.

His companions uttered a shout. He heard, and ran to meet them.

The convicts had left the plateau nearly half-an-hour before, having devastated it!

"And Mr. Herbert?" asked Neb.

Gideon Spilett returned to the cart.

Herbert had lost consciousness!

Chapter 10

Of the convicts, the dangers which menaced Granite House, the ruins with

which the plateau was covered, the colonists thought no longer. Herb ert's

critical state outweighed all other considerations. Would the remova l prove

fatal to him by causing some internal injury? The reporter could not affirm

it, but he and his companions almost despaired of the result. The cart was

brought to the bend of the river. There some branches, disposed as a liner,

received the mattress on which lay the unconscious Herbert. Ten minu tes

after, Cyrus Harding, Spilett, and Pencroft were at the foot of the cliff,

leaving Neb to take the cart on to the plateau of Prospect Heights.

lift was put in motion, and Herbert was soon stretched on his bed in Granite House.

What cares were lavished on him to bring him back to life! He smiled for

a moment on finding himself in his room, but could scarcely even mur ${\tt mur}$ a

few words, so great was his weakness. Gideon Spilett examined his wo unds. He

feared to find them reopened, having been imperfectly healed. There was

nothing of the sort. From whence, then, came this prostration? why was

Herbert so much worse? The lad then fell into a kind of feverish sle ep, and

the reporter and Pencroft remained near the bed. During this time, H arding

told Neb all that had happened at the corral, and Neb recounted to h is

master the events of which the plateau had just been the theater.

It was only during the preceding night that the convicts had appeare d on

the edge of the forest, at the approaches to Creek Glycerine. Neb, w

ho was

watching near the poultry-yard, had not hesitated to fire at one of the

pirates, who was about to cross the stream; but in the darkness he could

not tell whether the man had been hit or not. At any rate, it was no t

enough to frighten away the band, and Neb had only just time to get up to

Granite House, where at least he was in safety.

But what was he to do there? How prevent the devastations with which the

convicts threatened the plateau? Had Neb any means by which to warn his

master? And, besides, in what situation were the inhabitants of the corral

themselves? Cyrus Harding and his companions had left on the 11th of

November, and it was now the 29th. It was, therefore, nineteen days since

Neb had had other news than that brought by Top--disastrous news: Ay rton

disappeared, Herbert severely wounded, the engineer, reporter, and s ailor,

as it were, imprisoned in the corral!

What was he to do? asked poor Neb. Personally he had nothing to fear , for

the convicts could not reach him in Granite House. But the buildings , the

plantations, all their arrangements at the mercy of the pirates! Would it

not be best to let Cyrus Harding judge of what he ought to do, and to warn

him, at least, of the danger which threatened him?

Neb then thought of employing Jup , and confiding a note to him . He k new

the orang's great intelligence, which had been often put to the proof. Jup

understood the word corral, which had been frequently pronounced before

him, and it may be remembered, too, that he had often driven the car t

thither in company with Pencroft. Day had not yet dawned. The active orang

would know how to pass unperceived through the woods, of which the convicts, besides, would think he was a native.

Neb did not hesitate. He wrote the note, he tied it to Jup's neck, he

brought the ape to the door of Granite House, from which he let down a long

cord to the ground; then, several times he repeated these words, --

"Jup Jup! corral, corral!"

The creature understood, seized the cord, glided rapidly down the be ach,

and disappeared in the darkness without the convicts' attention having been

in the least excited.

"You did well, Neb," said Harding, "but perhaps in not warning us yo u

would have done still better!"

And, in speaking thus, Cyrus Harding thought of Herbert, whose recovery

the removal had so seriously checked.

Neb ended his account. The convicts had not appeared at all on the beach.

Not knowing the number of the island's inhabitants, they might suppose that

Granite House was defended by a large party. They must have remember ed that

during the attack by the brig numerous shot had been fired both from the

lower and upper rocks, and no doubt they did not wish to expose them selves.

But the plateau of Prospect Heights was open to them, and not covere d by

the fire of Granite House. They gave themselves up, therefore, to their

instinct of destruction, -- plundering, burning, devastating everythin g, -- and

only retiring half an hour before the arrival of the colonists, whom they

believed still confined in the corral.

On their retreat, Neb hurried out. He climbed the plateau at the ris ${\bf k}$ of

being perceived and fired at, tried to extinguish the fire which was

consuming the buildings of the poultry-yard, and had struggled, thou ah in

vain, against it until the cart appeared at the edge of the wood.

Such had been these serious events. The presence of the convicts constituted a permanent source of danger to the settlers in Lincoln Island,

until then so happy, and who might now expect still greater misfortunes.

Spilett remained in Granite House with Herbert and Pencroft, while Cyrus

Harding, accompanied by Neb, proceeded to judge for himself of the extent

of the disaster.

It was fortunate that the convicts had not advanced to the foot of Granite House. The workshop at the Chimneys would in that case not have

escaped destruction. But after all, this evil would have been more easily

reparable than the ruins accumulated on the plateau of Prospect Heights.

Harding and Neb proceeded towards the Mercy, and ascended its left b ank

without meeting with any trace of the convicts; nor on the other side of

the river, in the depths of the wood, could they perceive any suspic ious

indications.

Besides, it might be supposed that in all probability either the convicts

knew of the return of the settlers to Granite House, by having seen them

pass on the road from the corral, or, after the devastation of the p lateau,

they had penetrated into Jacamar Wood, following the course of the Mercy,

and were thus ignorant of their return.

In the former case, they must have returned towards the corral, now without defenders, and which contained valuable stores.

In the latter, they must have regained their encampment, and would \boldsymbol{w} ait

on opportunity to recommence the attack.

It was, therefore, possible to prevent them, but any enterprise to c lear

the island was now rendered difficult by reason of Herbert's condition.

Indeed, their whole force would have been barely sufficient to cope with

the convicts, and just now no one could leave Granite House.

The engineer and Neb arrived on the plateau. Desolation reigned everywhere. The fields had been trampled over; the ears of wheat, which

were nearly full-grown, lay on the ground. The other plantations had not suffered less.

The kitchen-garden was destroyed. Happily, Granite House possessed a store of seed which would enable them to repair these misfortunes.

As to the wall and buildings of the poultry-yard and the onagers stable,

the fire had destroyed all. A few terrified creatures roamed over the

plateau. The birds, which during the fire had taken refuge on the wa

ters of

the lake, had already returned to their accustomed spot, and were dabbling

on the banks. Everything would have to be reconstructed.

Cyrus Harding's face, which was paler than usual, expressed an internal

anger which he commanded with difficulty, but he did not utter a wor d. Once

more he looked at his devastated fields, and at the smoke which stil l rose

from the ruins, then he returned to Granite House.

The following days were the saddest of any that the colonists had passed

on the island! Herbert's weakness visibly increased. It appeared that a

more serious malady, the consequence of the profound physiological disturbance he had gone through, threatened to declare itself, and G ideon

Spilett feared such an aggravation of his condition that he would be

powerless to fight against it!

In fact, Herbert remained in an almost continuous state of drowsines s.

and symptoms of delirium began to manifest themselves. Refreshing drinks

were the only remedies at the colonists' disposal. The fever was not as yet

very high, but it soon appeared that it would probably recur at regular

intervals. Gideon Spilett first recognized this on the 6th of Decemb er.

The poor boy, whose fingers, nose, and ears had become extremely pale,

was at first seized with slight shiverings, horripilations, and trem blings.

His pulse was weak and irregular, his skin dry, his thirst intense. To this

soon succeeded a hot fit; his face became flushed; his skin reddened; his

pulse quick; then a profuse perspiration broke out after which the f ever

seemed to diminish. The attack had lasted nearly five hours.

Gideon Spilett had not left Herbert, who, it was only too certain, was now

seized by an intermittent fever, and this fever must be cured at any cost

before it should assume a more serious aspect.

"And in order to cure it," said Spilett to Cyrus Harding, "we need a febrifuge."

"A febrifuge--" answered the engineer. "We have neither Peruvian bar k, nor sulphate of quinine."

"No," said Gideon Spilett, "but there are willows on the border of the

lake, and the bark of the willow might, perhaps, prove to be a substitute

for quinine."

"Let us try it without losing a moment," replied Cyrus Harding.

The bark of the willow has, indeed, been justly considered as a succedaneum for Peruvian bark, as has also that of the horse-chestnut tree,

the leaf of the holly, the snake-root, etc. It was evidently necessary to

make trial of this substance, although not so valuable as Peruvian b ark,

and to employ it in its natural state, since they had no means for extracting its essence.

Cyrus Harding went himself to cut from the trunk of a species of bla ck

willow, a few pieces of bark; he brought them back to Granite House, and

reduced them to a powder, which was administered that same evening t $\ensuremath{\text{o}}$

Herbert.

The night passed without any important change. Herbert was somewhat delirious, but the fever did not reappear in the night, and did not return

either during the following day.

Pencroft again began to hope. Gideon Spilett said nothing. It might

that the fever was not quotidian, but tertian, and that it would ret

next day. Therefore, he awaited the next day with the greatest anxie ty.

It might have been remarked besides that during this period Herbert remained utterly prostrate, his head weak and giddy. Another symptom

alarmed the reporter to the highest degree. Herbert's liver became congested, and soon a more intense delirium showed that his brain was also affected.

Gideon Spilett was overwhelmed by this new complication. He took the engineer aside.

"It is a malignant fever," said he.

"A malignant fever!" cried Harding. "You are mistaken, Spilett. A malignant fever does not declare itself spontaneously; its germ must previously have existed."

"I am not mistaken," replied the reporter. "Herbert no doubt contracted the germ of this fever in the marshes of the island. He has already had one attack; should a second come on and should we not be able to prevent a third, he is lost."

"But the willow bark?"

"That is insufficient," answered the reporter, "and the third attack of a malignant fever, which is not arrested by means of quinine, is always fatal."

Fortunately, Pencroft heard nothing of this conversation or he would have gone mad.

It may be imagined what anxiety the engineer and the reporter suffer ed during the day of the 7th of December and the following night.

Towards the middle of the day the second attack came on. The crisis was terrible. Herbert felt himself sinking. He stretched his arms toward s Cyrus
Harding, towards Spilett, towards Pencroft. He was so young to die!

The scene was heart-rending. They were obliged to send Pencroft away.

The fit lasted five hours. It was evident that Herbert could not sur vive a third.

The night was frightful. In his delirium Herbert uttered words which went

to the hearts of his companions. He struggled with the convicts, he called

to Ayrton, he poured forth entreaties to that mysterious being, -- that

powerful unknown protector, --whose image was stamped upon his mind; then he

again fell into a deep exhaustion which completely prostrated him. S everal

times Gideon Spilett thought that the poor boy was dead.

The next day, the 8th of December, was but a succession of the faint ing

fits. Herbert's thin hands clutched the sheets. They had administere $\ensuremath{\mathtt{d}}$

further doses of pounded bark, but the reporter expected no result f rom it.

"If before tomorrow morning we have not given him a more energetic febrifuge," said the reporter, "Herbert will be dead."

Night arrived--the last night, it was too much to be feared, of the good,

brave, intelligent boy, so far in advance of his years, and who was loved

by all as their own child. The only remedy which existed against this

terrible malignant fever, the only specific which could overcome it, was

not to be found in Lincoln Island.

During the night of the 8th of December, Herbert was seized by a mor e

violent delirium. His liver was fearfully congested, his brain affected,

and already it was impossible for him to recognize any one.

Would he live until the next day, until that third attack which must

infallibly carry him off? It was not probable. His strength was exhausted,

and in the intervals of fever he lay as one dead.

Towards three o'clock in the morning Herbert uttered a piercing cry.

seemed to be torn by a supreme convulsion. Neb, who was near him, terrified, ran into the next room where his companions were watching.

Top, at that moment, barked in a strange manner.

All rushed in immediately and managed to restrain the dying boy, who was

endeavoring to throw himself out of his bed, while Spilett, taking h is arm,

felt his pulse gradually quicken.

It was five in the morning. The rays of the rising sun began to shin e in

at the windows of Granite House. It promised to be a fine day, and this day

was to be poor Herbert's last!

A ray glanced on the table placed near the bed.

Suddenly Pencroft, uttering a cry, pointed to the table.

On it lay a little oblong box, of which the cover bore these words:-

_

"SULPHATE OF QUININE."

Chapter 11

Gideon Spilett took the box and opened it. It contained nearly two hundred

grains of a white powder, a few particles of which he carried to his lips.

The extreme bitterness of the substance precluded all doubt; it was certainly the precious extract of quinine, that pre-eminent antifebrile.

This powder must be administered to Herbert without delay. How it ca

there might be discussed later.

"Some coffee!" said Spilett.

In a few moments Neb brought a cup of the warm infusion. Gideon Spil ett

threw into it about eighteen grains of quinine, and they succeeded in

making Herbert drink the mixture.

There was still time, for the third attack of the malignant fever had not

yet shown itself. How they longed to be able to add that it would no t

return!

Besides, it must be remarked, the hopes of all had now revived. The mysterious influence had been again exerted, and in a critical momen t, when

they had despaired of it.

In a few hours Herbert was much calmer. The colonists could now disc uss

this incident. The intervention of the stranger was more evident than ever.

But how had he been able to penetrate during the night into Granite House?

It was inexplicable, and, in truth, the proceedings of the genius of the

island were not less mysterious than was that genius himself. During this

day the sulphate of quinine was administered to Herbert every three hours.

The next day some improvement in Herbert's condition was apparent. Certainly, he was not out of danger, intermittent fevers being subject to

frequent and dangerous relapses, but the most assiduous care was bes towed

on him. And besides, the specific was at hand; nor, doubtless, was he who

had brought it far distant! And the hearts of all were animated by returning hope.

This hope was not disappointed. Ten days after, on the 20th of December,

Herbert's convalescence commenced.

He was still weak, and strict diet had been imposed upon him, but no

access of fever supervened. And then, the poor boy submitted with such

docility to all the prescriptions ordered him! He longed so to get well!

Pencroft was as a man who has been drawn up from the bottom of an ab yss.

Fits of joy approaching delirium seized him. When the time for the third

attack had passed by, he nearly suffocated the reporter in his embra ce.

Since then, he always called him Dr. Spilett.

The real doctor, however, remained undiscovered.

"We will find him!" repeated the sailor.

Certainly, this man, whoever he was, might expect a somewhat too energetic embrace from the worthy Pencroft!

The month of December ended, and with it the year 1867, during which

colonists of Lincoln Island had of late been so severely tried. They

commenced the year 1868 with magnificent weather, great heat, and a tropical temperature, delightfully cooled by the sea-breeze. Herbert's

recovery progressed, and from his bed, placed near one of the window s of

Granite House, he could inhale the fresh air, charged with ozone, which

could not fail to restore his health. His appetite returned, and what

numberless delicate, savory little dishes Neb prepared for him!

"It is enough to make one wish to have a fever oneself!" said Pencro ft.

During all this time, the convicts did not once appear in the vicinity of

Granite House. There was no news of Ayrton, and though the engineer and

Herbert still had some hopes of finding him again, their companions did not

doubt but that the unfortunate man had perished. However, this uncertainty

could not last, and when once the lad should have recovered, the

expedition, the result of which must be so important, would be under taken.

But they would have to wait a month, perhaps, for all the strength o f the

colony must be put into requisition to obtain satisfaction from the convicts.

However, Herbert's convalescence progressed rapidly. The congestion of

the liver had disappeared, and his wounds might be considered comple tely healed.

During the month of January, important work was done on the plateau of

Prospect Heights; but it consisted solely in saving as much as was possible

from the devastated crops, either of corn or vegetables. The grain a nd the

plants were gathered, so as to provide a new harvest for the approaching

half-season. With regard to rebuilding the poultry-yard, wall, or st ables,

Cyrus Harding preferred to wait. While he and his companions were in

pursuit of the convicts, the latter might very probably pay another visit

to the plateau, and it would be useless to give them an opportunity of

recommencing their work of destruction. when the island should be cleared

of these miscreants, they would set about rebuilding. The young convalescent began to get up in the second week of January, at first for

one hour a day, then two, then three. His strength visibly returned, so

vigorous was his constitution. He was now eighteen years of age. He was

tall, and promised to become a man of noble and commanding presence. From

this time his recovery, while still requiring care, -- and Dr. Spilett was

very strict, --made rapid progress. Towards the end of the month, Her bert

was already walking about on Prospect Heights, and the beach.

He derived, from several sea-baths, which he took in company with Pencroft and Neb, the greatest possible benefit. Cyrus Harding thought he

might now settle the day for their departure, for which the 15th of February was fixed. The nights, very clear at this time of year, would be

favorable to the researches they intended to make all over the islan d.

The necessary preparations for this exploration were now commenced,

and

were important, for the colonists had sworn not to return to Granite House

until their twofold object had been achieved; on the one hand, to exterminate the convicts, and rescue Ayrton, if he was still living; on the

other, to discover who it was that presided so effectually over the fortunes of the colony.

Of Lincoln Island, the settlers knew thoroughly all the eastern coas t

from Claw Cape to the Mandible Capes, the extensive Tadorn Marsh, the

neighborhood of Lake Grant, Jacamar Wood, between the road to the corral

and the Mercy, the courses of the Mercy and Red Creek, and lastly, the

spurs of Mount Franklin, among which the corral had been established

They had explored, though only in an imperfect manner, the vast shor e of

Washington Bay from Claw Cape to Reptile End, the woody and marshy border

of the west coast, and the interminable downs, ending at the open mouth of

Shark Gulf. But they had in no way surveyed the woods which covered the

Serpentine Peninsula, all to the right of the Mercy, the left bank of Falls

River, and the wilderness of spurs and valleys which supported three

quarters of the base of Mount Franklin, to the east, the north, and the

west, and where doubtless many secret retreats existed. Consequently, many

millions of acres of the island had still escaped their investigations.

It was, therefore, decided that the expedition should be carried through

the Far West, so as to include all that region situated on the right of the Mercy.

It might, perhaps, be better worth while to go direct to the corral,

where it might be supposed that the convicts had again taken refuge, either

to pillage or to establish themselves there. But either the devastat ion of

the corral would have been an accomplished fact by this time, and it would

be too late to prevent it, or it had been the convicts' interest to entrench themselves there, and there would be still time to go and turn

them out on their return.

Therefore, after some discussion, the first plan was adhered to, and the

settlers resolved to proceed through the wood to Reptile End. They would

make their way with their hatchets, and thus lay the first draft of a road

which would place Granite House in communication with the end of the

peninsula for a length of from sixteen to seventeen miles.

The cart was in good condition. The onagers, well rested, could go a long

journey. Provisions, camp effects, a portable stove, and various ute nsils

were packed in the cart, as also weapons and ammunition, carefully chosen

from the now complete arsenal of Granite House. But it was necessary to

remember that the convicts were, perhaps, roaming about the woods, a nd that

in the midst of these thick forests a shot might quickly be fired and

received. It was therefore resolved that the little band of settlers should

remain together and not separate under any pretext whatever.

It was also decided that no one should remain at Granite House. Top and

Jup themselves were to accompany the expedition; the inaccessible dw elling

needed no guard. The 14th of February, eve of the departure, was consecrated entirely to repose, and--thanksgiving addressed by the colonists

to the Creator. A place in the cart was reserved for Herbert, who, though

thoroughly convalescent, was still a little weak. The next morning, at

daybreak, Cyrus Harding took the necessary measures to protect Grani te

House from any invasion. The ladders, which were formerly used for the

ascent, were brought to the Chimneys and buried deep in the sand, so that

they might be available on the return of the colonists, for the mach inery

of the lift had been taken to pieces, and nothing of the apparatus remained. Pencroft stayed the last in Granite House in order to finish this

work, and he then lowered himself down by means of a double rope hel d

below, and which, when once hauled down, left no communication between the

upper landing and the beach.

The weather was magnificent.

"We shall have a warm day of it," said the reporter, laughing.

"Pooh! Dr. Spilett," answered Pencroft, "we shall walk under the sha de of

the trees and shan't even see the sun!"

"Forward!" said the engineer.

The cart was waiting on the beach before the Chimneys. The reporter made

Herbert take his place in it during the first hours at least of the journey, and the lad was obliged to submit to his doctor's orders.

Neb placed himself at the onagers' heads. Cyrus Harding, the reporte \mathbf{r} ,

and the sailor, walked in front. Top bounded joyfully along. Herbert

offered a seat in his vehicle to Jup, who accepted it without ceremo ny. The

moment for departure had arrived, and the little band set out.

The cart first turned the angle of the mouth of the Mercy, then, having

ascended the left bank for a mile, crossed the bridge, at the other side of

which commenced the road to Port Balloon, and there the explorers, leaving

this road on their left, entered the cover of the immense woods which

formed the region of the Far West.

For the first two miles the widely scattered trees allowed the cart to

pass with ease; from time to time it became necessary to cut away a few

creepers and bushes, but no serious obstacle impeded the progress of the

colonists.

The thick foliage of the trees threw a grateful shade on the ground.

Deodars, Douglas firs, casuarinas, banksias, gum-trees, dragon-trees, and

other well-known species, succeeded each other far as the eye could reach.

The feathered tribes of the island were all represented--grouse, jac amars.

pheasants, lories, as well as the chattering cockatoos, parrots, and

paroquets. Agouties, kangaroos, and capybaras fled swiftly at their approach; and all this reminded the settlers of the first excursions they

had made on their arrival at the island.

"Nevertheless," observed Cyrus Harding, "I notice that these creatures,

both birds and quadrupeds, are more timid than formerly. These woods have,

therefore, been recently traversed by the convicts, and we shall certainly $\frac{1}{2}$

find some traces of them."

And, in fact, in several places they could distinguish traces, more or

less recent, of the passage of a band of men--here branches broken o ff the

trees, perhaps to mark out the way; there the ashes of a fire, and footprints in clayey spots; but nothing which appeared to belong to a

settled encampment.

The engineer had recommended his companions to refrain from hunting. The

reports of the firearms might give the alarm to the convicts, who we re,

perhaps, roaming through the forest. Moreover, the hunters would necessarily ramble some distance from the cart, which it was dangero us to

leave unguarded.

In the afterpart of the day, when about six miles from Granite House

their progress became much more difficult. In order to make their wa ${\tt Y}$

through some thickets, they were obliged to cut down trees. Before e ntering

such places Harding was careful to send in Top and Jup, who faithful ly

accomplished their commission, and when the $\ensuremath{\operatorname{dog}}$ and orang returned $\ensuremath{\mathsf{w}}$ ithout

giving any warning, there was evidently nothing to fear, either from

convicts or wild beasts, two varieties of the animal kingdom, whose ferocious instincts placed them on the same level. On the evening of the

first day the colonists encamped about nine miles from Granite House . on

the border of a little stream falling into the Mercy, and of the existence

of which they had till then been ignorant; it evidently, however, be longed

to the hydiographical system to which the soil owed its astonishing fertility. The settlers made a hearty meal, for their appetites were

sharpened, and measures were then taken that the night might be pass ed in

safety. If the engineer had had only to deal with wild beasts, jaguars or

others, he would have simply lighted fires all around his camp, which would

have sufficed for its defense; but the convicts would be rather attracted

than terrified by the flames, and it was, therefore, better to be surrounded by the profound darkness of night.

The watch was, however, carefully organized. Two of the settlers were to

watch together, and every two hours it was agreed that they should be

relieved by their comrades. And so, notwithstanding his wish to the contrary, Herbert was exempted from guard. Pencroft and Gideon Spile tt in

one party, the engineer and Neb in another, mounted guard in turns over

the camp.

The night, however, was but of few hours. The darkness was due rathe r to

the thickness of the foliage than to the disappearance of the sun. The

silence was scarcely disturbed by the howling of jaguars and the chattering

of the monkeys, the latter appearing to particularly irritate Master Jup.

The night passed without incident, and on the next day, the 15th of February, the journey through the forest, tedious rather than difficult,

was continued. This day they could not accomplish more than six mile s, for

every moment they were obliged to cut a road with their hatchets.

Like true settlers, the colonists spared the largest and most beautiful

trees, which would besides have cost immense labor to fell, and the small

ones only were sacrificed, but the result was that the road took a very

winding direction, and lengthened itself by numerous detours.

During the day Herbert discovered several new specimens not before $\ensuremath{\mathtt{m}}$ et

with in the island, such as the tree-fern, with its leaves spread ou t like

the waters of a fountain, locust-trees, on the long pods of which the

onagers browsed greedily, and which supplied a sweet pulp of excelle nt

flavor. There, too, the colonists again found groups of magnificent kauries, their cylindrical trunks, crowded with a cone of verdure, r ising

to a height of two hundred feet. These were the tree-kings of New Ze aland,

as celebrated as the cedars of Lebanon.

As to the fauna, there was no addition to those species already know n to

the hunters. Nevertheless, they saw, though unable to get near them, a couple of those large birds peculiar to Australia, a sort of cassowa ry, called emu, five feet in height, and with brown plumage, which belon g to the tribe of waders. Top darted after them as fast as his four legs could carry him, but the emus distanced him with ease, so prodigious was their speed.

As to the traces left by the convicts, a few more were discovered. Some footprints found near an apparently recently extinguished fire were attentively examined by the settlers. By measuring them one after the other, according to their length and breadth, the marks of five men's feet were easily distinguished. The five convicts had evidently camped on this spot; but,--and this was the object of so minute an examination,--a sixth footprint could not be discovered, which in that case would have been that of Ayrton.

"Ayrton was not with them!" said Herbert.

"No," answered Pencroft, "and if he was not with them, it was becaus e the wretches had already murdered him! but then these rascals have not a den to which they may be tracked like tigers!"

"No," replied the reporter, "it is more probable that they wander at random, and it is their interest to rove about until the time when they will be masters of the island!"

"The masters of the island!" exclaimed the sailor; "the masters of the island!..." he repeated, and his voice was choked, as if his throat was seized in an iron grasp. Then in a calmer tone, "Do you know, Captain Harding," said he, "what the ball is which I have rammed into my gun?"

"No, Pencroft!"

"It is the ball that went through Herbert's chest, and I promise you it won't miss its mark!"

But this just retaliation would not bring Ayrton back to life, and f rom

the examination of the footprints left in the ground, they must, ala s!

conclude that all hopes of ever seeing him again must be abandoned.

That evening they encamped fourteen miles from Granite House, and Cyrus

Harding calculated that they could not be more than five miles from Reptile Point.

And indeed, the next day the extremity of the peninsula was reached, and

the whole length of the forest had been traversed; but there was not hing to

indicate the retreat in which the convicts had taken refuge, nor that, no

less secret, which sheltered the mysterious unknown.

Chapter 12

The next day, the 18th of February, was devoted to the exploration of all

that wooded region forming the shore from Reptile End to Falls River . The

colonists were able to search this forest thoroughly, for, as it was

comprised between the two shores of the Serpentine Peninsula, it was only

from three to four miles in breadth. The trees, both by their height and

their thick foliage, bore witness to the vegetative power of the soi 1, more

astonishing here than in any other part of the island. One might have said

that a corner from the virgin forests of America or Africa had been transported into this temperate zone. This led them to conclude that the

superb vegetation found a heat in this soil, damp in its upper layer, but

warmed in the interior by volcanic fires, which could not belong to a

temperate climate. The most frequently occurring trees were knaries and

eucalypti of gigantic dimensions.

But the colonists' object was not simply to admire the magnificent vegetation. They knew already that in this respect Lincoln Island would

have been worthy to take the first rank in the Canary group, to which the

first name given was that of the Happy Isles. Now, alas! their island no

longer belonged to them entirely; others had taken possession of it,

miscreants polluted its shores, and they must be destroyed to the last man.

No traces were found on the western coast, although they were carefully

sought for. No more footprints, no more broken branches, no more des erted camps.

"This does not surprise me," said Cyrus Harding to his companions. "The

convicts first landed on the island in the neighborhood of Flotsam P oint,

and they immediately plunged into the Far West forests, after crossing

Tadorn Marsh. They then followed almost the same route that we took on

leaving Granite House. This explains the traces we found in the wood . But, $\,$

arriving on the shore, the convicts saw at once that they would disc over no

suitable retreat there, and it was then that, going northwards again , they

came upon the corral."

"Where they have perhaps returned," said Pencroft.

"I do not think so," answered the engineer, "for they would naturally

suppose that our researches would be in that direction. The corral is only

a storehouse to them, and not a definitive encampment."

"I am of Cyrus' opinion," said the reporter, "and I think that it is

among the spurs of Mount Franklin that the convicts will have made their

lair."

"Then, captain, straight to the corral!" cried Pencroft. "We must finish

them off, and till now we have only lost time!"

"No, my friend," replied the engineer; "you forget that we have a re ason

for wishing to know if the forests of the Far West do not contain so

habitation. Our exploration has a double object, Pencroft. If, on the one

hand, we have to chastise crime, we have, on the other, an act of gratitude $\underline{}$

to perform."

"That was well said, captain," replied the sailor, "but, all the sam e, it

is my opinion that we shall not find the gentleman until he pleases. $\mbox{"}$

And truly Pencroft only expressed the opinion of all. It was probable

that the stranger's retreat was not less mysterious than was he hims

that the stranger's retreat was not less mysterious than was he hims elf.

That evening the cart halted at the mouth of Falls River. The camp w as

organized as usual, and the customary precautions were taken for the night.

Herbert, become again the healthy and vigorous lad he was before his

illness, derived great benefit from this life in the open air, between the

sea breezes and the vivifying air from the forests. His place was no longer

in the cart, but at the head of the troop.

The next day, the 19th of February, the colonists, leaving the shore

where, beyond the mouth, basalts of every shape were so picturesquel y piled

up, ascended the river by its left bank. The road had been already p artly

cleared in their former excursions made from the corral to the west coast.

The settlers were now about six miles from Mount Franklin.

The engineer's plan was this:--To minutely survey the valley forming the

bed of the river, and to cautiously approach the neighborhood of the

corral; if the corral was occupied, to seize it by force; if it was not, to

entrench themselves there and make it the center of the operations w hich

had for their object the exploration of Mount Franklin.

This plan was unanimously approved by the colonists, for they were impatient to regain entire possession of their island.

They made their way then along the narrow valley separating two of t

largest spurs of Mount Franklin. The trees, crowded on the river's b ank,

became rare on the upper slopes of the mountain. The ground was hill y and

rough, very suitable for ambushes, and over which they did not venture

without extreme precaution. Top and Jup skirmished on the flanks, springing

right and left through the thick brushwood, and emulating each other in

intelligence and activity. But nothing showed that the banks of the

stream

had been recently frequented--nothing announced either the presence or the

proximity of the convicts. Towards five in the evening the cart stop ped

nearly 600 feet from the palisade. A semicircular screen of trees still hid

it.

It was necessary to reconnoiter the corral, in order to ascertain if it

was occupied. To go there openly, in broad daylight, when the convic ts were

probably in ambush, would be to expose themselves, as poor Herbert h ad

done, to the firearms of the ruffians. It was better, then, to wait until

night came on.

However, Gideon Spilett wished without further delay to reconnoiter the

approaches to the corral, and Pencroft, who was quite out of patience,

volunteered to accompany him.

"No, my friends," said the engineer, "wait till night. I will not allow $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

one of you to expose himself in open day."

"But, captain--" answered the sailor, little disposed to obey.

"I beg of you, Pencroft," said the engineer.

"Very well!" replied the sailor, who vented his anger in another way , by

bestowing on the convicts the worst names in his maritime vocabulary .

The colonists remained, therefore, near the cart, and carefully watched

the neighboring parts of the forest.

Three hours passed thus. The wind had fallen, and absolute silence reigned under the great trees. The snapping of the smallest twig, a footstep on the dry leaves, the gliding of a body among the grass, would

have been heard without difficulty. All was quiet. Besides, Top, lying on

the grass, his head stretched out on his paws, gave no sign of uneas iness.

At eight o'clock the day appeared far enough advanced for the reconnaissance to be made under favorable conditions. Gideon Spilett

declared himself ready to set out accompanied by Pencroft. Cyrus Har ding

consented. Top and Jup were to remain with the engineer, Herbert, an

d Neb,

for a bark or a cry at a wrong moment would give the alarm.

"Do not be imprudent," said Harding to the reporter and Pencroft, "y ou

have not to gain possession of the corral, but only to find out whet her it

is occupied or not."

"All right," answered Pencroft.

And the two departed.

Under the trees, thanks to the thickness of their foliage, the obscurity

rendered any object invisible beyond a radius of from thirty to fort y feet.

The reporter and Pencroft, halting at any suspicious sound, advanced with

great caution.

They walked a little distance apart from each other so as to offer a less

mark for a shot. And, to tell the truth, they expected every moment to hear

a report. Five minutes after leaving the cart, Gideon Spilett and Pencroft

arrived at the edge of the wood before the clearing beyond which ros ${\sf e}$ the

palisade.

They stopped. A few straggling beams still fell on the field clear of

trees. Thirty feet distant was the gate of the corral, which appeare d to be

closed. This thirty feet, which it was necessary to cross from the wood to

the palisade, constituted the dangerous zone, to borrow a ballistic term:

in fact, one or more bullets fired from behind the palisade might kn ock

over any one who ventured on to this zone. Gideon Spilett and the sailor

were not men to draw back, but they knew that any imprudence on their part,

of which they would be the first victims, would fall afterwards on their

companions. If they themselves were killed, what would become of Harding,

Neb, and Herbert?

But Pencroft, excited at feeling himself so near the corral where he

supposed the convicts had taken refuge, was about to press forward, when

the reporter held him back with a grasp of iron.

"In a few minutes it will be quite dark," whispered Spilett in the sailor's ear, "then will be the time to act."

Pencroft, convulsively clasping the butt-end of his gun, restrained his

energies, and waited, swearing to himself.

Soon the last of the twilight faded away. Darkness, which seemed as if it

issued from the dense forest, covered the clearing. Mount Franklin rose

like an enormous screen before the western horizon, and night spread

rapidly over all, as it does in regions of low latitudes. Now was the time.

The reporter and Pencroft, since posting themselves on the edge of the

wood, had not once lost sight of the palisade. The corral appeared to be

absolutely deserted. The top of the palisade formed a line, a little darker

than the surrounding shadow, and nothing disturbed its distinctness.

Nevertheless, if the convicts were there, they must have posted one of their number to guard against any surprise.

Spilett grasped his companion's hand, and both crept towards the corral,

their guns ready to fire.

They reached the gate without the darkness being illuminated by a single ray of light.

Pencroft tried to push open the gate, which, as the reporter and he had

supposed, was closed. However, the sailor was able to ascertain that the

outer bars had not been put up. It might, then, be concluded that the

convicts were there in the corral, and that very probably they had f astened

the gate in such a way that it could not be forced open.

Gideon Spilett and Pencroft listened.

Not a sound could be heard inside the palisade. The musmons and the goats, sleeping no doubt in their huts, in no way disturbed the calm of night.

The reporter and the sailor hearing nothing, asked themselves whether

they had not better scale the palisades and penetrate into the corra 1. This

would have been contrary to Cyrus Harding's instructions.

It is true that the enterprise might succeed, but it might also fail

Now, if the convicts were suspecting nothing, if they knew nothing of the

expedition against them, if, lastly, there now existed a chance of surprising them, ought this chance to be lost by inconsiderately attempting

to cross the palisades?

This was not the reporter's opinion. He thought it better to wait un til

all the settlers were collected together before attempting to penetr ate into

the corral. One thing was certain, that it was possible to reach the

palisade without being seen, and also that it did not appear to be guarded.

This point settled, there was nothing to be done but to return to the cart,

where they would consult.

Pencroft probably agreed with this decision, for he followed the reporter

without making any objection when the latter turned back to the wood .

In a few minutes the engineer was made acquainted with the state of affairs.

"Well," said he, after a little thought, "I now have reason to belie ve

that the convicts are not in the corral."

"We shall soon know," said Pencroft, "when we have scaled the palisa de."

"To the corral, my friends!" said Cyrus Harding.

"Shall we leave the cart in the wood?" asked Neb.

"No," replied the engineer, "it is our wagon of ammunition and provisions, and, if necessary, it would serve as an entrenchment."

"Forward, then!" said Gideon Spilett.

The cart emerged from the wood and began to roll noiselessly towards the

palisade. The darkness was now profound, the silence as complete as when

Pencroft and the reporter crept over the ground. The thick grass completely

muffled their footsteps. The colonists held themselves ready to fire

. Jup,

at Pencroft's orders, kept behind. Neb led Top in a leash, to preven t him

from bounding forward.

The clearing soon came in sight. It was deserted. Without hesitating , the

little band moved towards the palisade. In a short space of time the

dangerous zone was passed. Neb remained at the onagers' heads to hol d them.

The engineer, the reporter, Herbert, and Pencroft, proceeded to the door,

in order to ascertain if it was barricaded inside. It was open!

"What do you say now?" asked the engineer, turning to the sailor and Spilett.

Both were stupefied.

"I can swear," said Pencroft, "that this gate was shut just now!"

The colonists now hesitated. Were the convicts in the corral when Pencroft and the reporter made their reconnaissance? It could not be

doubted, as the gate then closed could only have been opened by them . Were $\,$

they still there, or had one of their number just gone out?

All these questions presented themselves simultaneously to the minds of

the colonists, but how could they be answered?

At that moment, Herbert, who had advanced a few steps into the enclo sure,

drew back hurriedly, and seized Harding's hand.

"What's the matter?" asked the engineer.

"A light!"

"In the house?"

"Yes!"

All five advanced and indeed, through the window fronting them, they saw

glimmering a feeble light. Cyrus Harding made up his mind rapidly. "It is

our only chance, " said he to his companions, "of finding the convict s

collected in this house, suspecting nothing! They are in our power! Forward!" The colonists crossed through the enclosure, holding their guns

ready in their hands. The cart had been left outside under the charg

e of Jup and Top, who had been prudently tied to it.

Cyrus Harding, Pencroft, and Gideon Spilett on one side, Herbert and Neb on the other, going along by the palisade, surveyed the absolutely d ark and deserted corral.

In a few moments they were near the closed door of the house.

Harding signed to his companions not to stir, and approached the win dow, then feebly lighted by the inner light.

He gazed into the apartment.

On the table burned a lantern. Near the table was the bed formerly u sed by Ayrton.

On the bed lay the body of a man.

Suddenly Cyrus Harding drew back, and in a hoarse voice, -- "Ayrton!" he exclaimed.

Immediately the door was forced rather than opened, and the colonist s rushed into the room.

Ayrton appeared to be asleep. His countenance showed that he had lon g and cruelly suffered. On his wrists and ankles could be seen great bruis es.

Harding bent over him.

"Ayrton!" cried the engineer, seizing the arm of the man whom he had just found again under such unexpected circumstances.

At this exclamation Ayrton opened his eyes, and, gazing at Harding, then at the others,--

"You!" he cried, "you?"

"Ayrton! Tepeated Harding.

"Where am I?"

"In the house in the corral!"

"Alone?"

"Yes!"

"But they will come back!" cried Ayrton. "Defend yourselves! defend yourselves!"

And he fell back exhausted.

"Spilett," exclaimed the engineer, "we may be attacked at any moment.

Bring the cart into the corral. Then, barricade the door, and all co me back here."

Pencroft, Neb, and the reporter hastened to execute the engineer's orders. There was not a moment to be lost. Perhaps even now the cart was in

the hands of the convicts!

In a moment the reporter and his two companions had crossed the corr al and reached the gate of the palisade behind which Top was heard grow ling sullenly.

The engineer, leaving Ayrton for an instant, came out ready to fire.

Herbert was at his side. Both surveyed the crest of the spur overlooking

the corral. If the convicts were lying in ambush there, they might \boldsymbol{k} nock

the settlers over one after the other.

At that moment the moon appeared in the east, above the black curtain of

the forest, and a white sheet of light spread over the interior of the

enclosure. The corral, with its clumps of trees, the little stream w hich

watered it, its wide carpet of grass, was suddenly illuminated. From the

side of the mountain, the house and a part of the palisade stood out white

in the moonlight. On the opposite side towards the door, the enclosu re

remained dark. A black mass soon appeared. This was the cart entering the

circle of light, and Cyrus Harding could hear the noise made by the door,

as his companions shut it and fastened the interior bars.

But, at that moment, Top, breaking loose, began to bark furiously and to the back of the corral, to the right of the house.

"Be ready to fire, my friends!" cried Harding.

The colonists raised their pieces and waited the moment to fire.

Top still barked, and Jup, running towards the dog, uttered shrill c ries.

The colonists followed him, and reached the borders of the little st ream,

shaded by large trees. And there, in the bright moonlight, what did they

see? Five corpses, stretched on the bank!

They were those of the convicts who, four months previously, had lan ded

on Lincoln Island!

Chapter 13

How had it happened? who had killed the convicts? Was it Ayrton? No, for a moment before he was dreading their return.

But Ayrton was now in a profound stupor, from which it was no longer

possible to rouse him. After uttering those few words he had again become

unconscious, and had fallen back motionless on the bed.

The colonists, a prey to a thousand confused thoughts, under the influence of violent excitement, waited all night, without leaving A yrton's

house, or returning to the spot where lay the bodies of the convicts . It

was very probable that Ayrton would not be able to throw any light on the

circumstances under which the bodies had been found, since he himsel f was

not aware that he was in the corral. But at any rate he would be in a

position to give an account of what had taken place before this terrible

execution. The next day Ayrton awoke from his torpor, and his companions

cordially manifested all the joy they felt, on seeing him again, alm ost

safe and sound, after a hundred and four days separation.

Ayrton then in a few words recounted what had happened, or, at least, as much as he knew.

The day after his arrival at the corral, on the 10th of last Novembe ${\tt r}$, at

nightfall, he was surprised by the convicts, who had scaled the pali sade.

They bound and gagged him; then he was led to a dark cavern, at the

foot of

Mount Franklin, where the convicts had taken refuge.

His death had been decided upon, and the next day the convicts were about

to kill him, when one of them recognized him and called him by the name

which he bore in Australia. The wretches had no scruples as to murde ring

Ayrton! They spared Ben Joyce!

But from that moment Ayrton was exposed to the importunities of his former accomplices. They wished him to join them again, and relied u pon his

aid to enable them to gain possession of Granite House, to penetrate into

that hitherto inaccessible dwelling, and to become masters of the is land,

after murdering the colonists!

Ayrton remained firm. The once convict, now repentant and pardoned, would

rather die than betray his companions. Ayrton--bound, gagged, and closely

watched--lived in this cave for four months.

Nevertheless the convicts had discovered the corral a short time aft er

their arrival in the island, and since then they had subsisted on Ayrton's

stores, but did not live at the corral.

On the 11th of November, two of the villains, surprised by the colon ists'

arrival, fired at Herbert, and one of them returned, boasting of having

killed one of the inhabitants of the island; but he returned alone. His

companion, as is known, fell by Cyrus Harding's dagger.

Ayrton's anxiety and despair may be imagined when he learned the new s of

Herbert's death. The settlers were now only four, and, as it seemed, at the

mercy of the convicts. After this event, and during all the time that the

colonists, detained by Herbert's illness, remained in the corral, the

pirates did not leave their cavern, and even after they had pillaged the

plateau of Prospect Heights, they did not think it prudent to abando n it.

The ill-treatment inflicted on Ayrton was now redoubled. His hands a nd

feet still bore the bloody marks of the cords which bound him day an

d night. Every moment he expected to be put to death, nor did it appear possible that he could escape.

Matters remained thus until the third week of February. The convicts , still watching for a favorable opportunity, rarely quitted their ret reat, and only made a few hunting excursions, either to the interior of the island, or the south coast.

Ayrton had no further news of his friends, and relinquished all hope of ever seeing them again. At last, the unfortunate man, weakened by ill-treatment, fell into a prostration so profound that sight and hearing failed him. From that moment, that is to say, since the last two days, he could give no information whatever of what had occurred.

"But, Captain Harding," he added, "since I was imprisoned in that ca vern, how is it that I find myself in the corral?"

"How is it that the convicts are lying yonder dead, in the middle of the enclosure?" answered the engineer.

"Dead!" cried Ayrton, half rising from his bed, notwithstanding his weakness.

His companions supported him. He wished to get up, and with their assistance he did so. They then proceeded together towards the little stream.

It was now broad daylight.

There, on the bank, in the position in which they had been stricken by death in its most instantaneous form, lay the corpses of the five convicts!

Ayrton was astounded. Harding and his companions looked at him witho ut uttering a word. On a sign from the engineer, Neb and Pencroft examined the bodies, already stiffened by the cold.

They bore no apparent trace of any wound.

Only, after carefully examining them, Pencroft found on the forehead of

one, on the chest of another, on the back of this one, on the should $\operatorname{\mathsf{er}}$ of

that, a little red spot, a sort of scarcely visible bruise, the caus e of

which it was impossible to conjecture.

"It is there that they have been struck!" said Cyrus Harding.

"But with what weapon?" cried the reporter.

"A weapon, lightning-like in its effects, and of which we have not the secret!"

"And who has struck the blow?" asked Pencroft.

"The avenging power of the island," replied Harding, "he who brought you

here, Ayrton, whose influence has once more manifested itself, who does for

us all that which we cannot do for ourselves, and who, his will accomplished, conceals himself from us."

"Let us make search for him, then!" exclaimed Pencroft.

"Yes, we will search for him," answered Harding, "but we shall not discover this powerful being who performs such wonders, until he ple ases to

call us to him!"

This invisible protection, which rendered their own action unavailing,

both irritated and piqued the engineer. The relative inferiority whi ch it

proved was of a nature to wound a haughty spirit. A generosity evinc ed in

such a manner as to elude all tokens of gratitude, implied a sort of

disdain for those on whom the obligation was conferred, which in Cyr us

Harding's eyes marred, in some degree, the worth of the benefit.

"Let us search," he resumed, "and God grant that we may some day be permitted to prove to this haughty protector that he has not to deal with

ungrateful people! What would I not give could we repay him, by rend ering

him in our turn, although at the price of our lives, some signal ser vice!"

From this day, the thoughts of the inhabitants of Lincoln Island wer e solely occupied with the intended search. Everything incited them to

solely occupied with the intended search. Everything incited them to

discover the answer to this enigma, an answer which would only be the name

of a man endowed with a truly inexplicable, and in some degree super human power.

In a few minutes, the settlers re-entered the house, where their influence soon restored to Ayrton his moral and physical energy. Neb and

Pencroft carried the corpses of the convicts into the forest, some d istance

from the corral, and buried them deep in the ground.

Ayrton was then made acquainted with the facts which had occurred during

his seclusion. He learned Herbert's adventures, and through what various

trials the colonists had passed. As to the settlers, they had despaired of

ever seeing Ayrton again, and had been convinced that the convicts had

ruthlessly murdered him.

"And now," said Cyrus Harding, as he ended his recital, "a duty remains

for us to perform. Half of our task is accomplished, but although the

convicts are no longer to be feared, it is not owing to ourselves th at we

are once more masters of the island."

"Well!" answered Gideon Spilett, "let us search all this labyrinth of the

spurs of Mount Franklin. We will not leave a hollow, not a hole unex plored!

Ah! if ever a reporter found himself face to face with a mystery, it is I

who now speak to you, my friends!"

"And we will not return to Granite House until we have found our benefactor," said Herbert.

"Yes," said the engineer, "we will do all that it is humanly possible to

do, but I repeat we shall not find him until he himself permits us."

"Shall we stay at the corral?" asked Pencroft.

"We shall stay here," answered Harding. "Provisions are abundant, and we

are here in the very center of the circle we have to explore. Beside s, if

necessary, the cart will take us rapidly to Granite House."

"Good!" answered the sailor. "Only I have a remark to make."

"What is it?"

"Here is the fine season getting on, and we must not forget that we have a voyage to make."

"A voyage?" said Gideon Spilett.

"Yes, to Tabor Island," answered Pencroft. "It is necessary to carry a notice there to point out the position of our island and say that Ay rton is here in case the Scotch yacht should come to take him off. Who knows

if it

"But, Pencroft," asked Ayrton, "how do you intend to make this voyage?"

"In the 'Bonadventure.'"

roud.

is not already too late?"

"The 'Bonadventure!'" exclaimed Ayrton. "She no longer exists."

"My 'Bonadventure' exists no longer!" shouted Pencroft, bounding fro m his seat.

"No," answered Ayrton. "The convicts discovered her in her little harbor only eight days ago, they put to sea in her--"

"And?" said Pencroft, his heart beating.

"And not having Bob Harvey to steer her, they ran on the rocks, and the vessel went to pieces."

"Oh, the villains, the cutthroats, the infamous scoundrels!" exclaim ed Pencroft.

"Pencroft," said Herbert, taking the sailor's hand, "we will build another 'Bonadventure'--a larger one. We have all the ironwork--all the rigging of the brig at our disposal."

"But do you know," returned Pencroft, "that it will take at least five or six months to build a vessel of from thirty to forty tons?"

"We can take our time," said the reporter, "and we must give up the voyage to Tabor Island for this year."

"Oh, my 'Bonadventure!' my poor 'Bonadventure!'" cried Pencroft, alm ost broken-hearted at the destruction of the vessel of which he was so p

The loss of the "Bonadventure" was certainly a thing to be lamented by

the colonists, and it was agreed that this loss should be repaired a soon

as possible. This settled, they now occupied themselves with bringing their

researches to bear on the most secret parts of the island.

The exploration was commenced at daybreak on the 19th of February, a nd

lasted an entire week. The base of the mountain, with its spurs and their

numberless ramifications, formed a labyrinth of valleys and elevations. It

was evident that there, in the depths of these narrow gorges, perhap s even

in the interior of Mount Franklin itself, was the proper place to pursue

their researches. No part of the island could have been more suitable to

conceal a dwelling whose occupant wished to remain unknown. But so irregular was the formation of the valleys that Cyrus Harding was obliged

to conduct the exploration in a strictly methodical manner.

The colonists first visited the valley opening to the south of the volcano, and which first received the waters of Falls River. There A yrton

showed them the cavern where the convicts had taken refuge, and in w hich he

had been imprisoned until his removal to the corral. This cavern was just

as Ayrton had left it. They found there a considerable quantity of ammunition and provisions, conveyed thither by the convicts in order to

form a reserve.

The whole of the valley bordering on the cave, shaded by fir and oth

trees, was thoroughly explored, and on turning the point of the southwestern spur, the colonists entered a narrower gorge similar to the

picturesque columns of basalt on the coast. Here the trees were fewer.

Stones took the place of grass. Goats and musmons gambolled among the

rocks. Here began the barren part of the island. It could already be seen

that, of the numerous valleys branching off at the base of Mount Franklin.

three only were wooded and rich in pasturage like that of the corral , which

bordered on the west on the Falls River valley, and on the east on the Red

Creek valley. These two streams, which lower down became rivers by t

he

absorption of several tributaries, were formed by all the springs of the

mountain and thus caused the fertility of its southern part. As to the

Mercy, it was more directly fed from ample springs concealed under the

cover of Jacamar Wood, and it was by springs of this nature, spreading in a

thousand streamlets, that the soil of the Serpentine Peninsula was watered.

Now, of these three well-watered valleys, either might have served a s a

retreat to some solitary who would have found there everything neces sary

for life. But the settlers had already explored them, and in no part had

they discovered the presence of man.

Was it then in the depths of those barren gorges, in the midst of the

piles of rock, in the rugged northern ravines, among the streams of lava,

that this dwelling and its occupant would be found?

The northern part of Mount Franklin was at its base composed solely of

two valleys, wide, not very deep, without any appearance of vegetation,

strewn with masses of rock, paved with lava, and varied with great b locks

of mineral. This region required a long and careful exploration. It contained a thousand cavities, comfortless no doubt, but perfectly concealed and difficult of access.

The colonists even visited dark tunnels, dating from the volcanic period,

still black from the passage of the fire, and penetrated into the depths of

the mountain. They traversed these somber galleries, waving lighted torches; they examined the smallest excavations; they sounded the shallowest depths, but all was dark and silent. It did not appear that the

foot of man had ever before trodden these ancient passages, or that his arm

had ever displaced one of these blocks, which remained as the volcan o had

cast them up above the waters, at the time of the submersion of the island.

However, although these passages appeared to be absolutely deserted, and

the obscurity was complete, Cyrus Harding was obliged to confess tha

absolute silence did not reign there.

On arriving at the end of one of these gloomy caverns, extending several

hundred feet into the interior of the mountain, he was surprised to hear a

deep rumbling noise, increased in intensity by the sonorousness of the rocks.

Gideon Spilett, who accompanied him, also heard these distant mutter ings,

which indicated a revivification of the subterranean fires. Several times

both listened, and they agreed that some chemical process was taking place

in the bowels of the earth.

"Then the volcano is not totally extinct?" said the reporter.

"It is possible that since our exploration of the crater," replied ${\tt C}$ yrus

Harding, "some change has occurred. Any volcano, although considered extinct, may evidently again burst forth."

"But if an eruption of Mount Franklin occurred," asked Spilett, "would there not be some danger to Lincoln Island?"

the safety-valve, exists, and the overflow of smoke and lava, would escape,

as it did formerly, by this customary outlet."

"Unless the lava opened a new way for itself towards the fertile parts of the island!"

"And why, my dear Spilett," answered Cyrus Harding, "should it not follow

the road naturally traced out for it?"

"Well, volcanoes are capricious," returned the reporter.

"Notice," answered the engineer, "that the inclination of Mount Franklin

favors the flow of water towards the valleys which we are exploring just

now. To turn aside this flow, an earthquake would be necessary to change

the mountain's center of gravity."

"But an earthquake is always to be feared at these times," observed Gideon Spilett.

"Always," replied the engineer, "especially when the subterranean forces

begin to awake, as they risk meeting with some obstruction, after a long

rest. Thus, my dear Spilett, an eruption would be a serious thing for us,

and it would be better that the volcano should not have the slightes t

desire to wake up. But we could not prevent it, could we? At any rat e, even

if it should occur, I do not think Prospect Heights would he serious ly

threatened. Between them and the mountain, the ground is considerably

depressed, and if the lava should ever take a course towards the lake, it

would be cast on the downs and the neighboring parts of Shark Gulf."

"We have not yet seen any smoke at the top of the mountain, to indic ate an approaching eruption," said Gideon Spilett.

"No," answered Harding, "not a vapor escapes from the crater, for it was

only yesterday that I attentively surveyed the summit. But it is probable

that at the lower part of the chimney, time may have accumulated rocks,

cinders, hardened lava, and that this valve of which I spoke, may at any

time become overcharged. But at the first serious effort, every obstacle

will disappear, and you may be certain, my dear Spilett, that neither the

island, which is the boiler, nor the volcano, which is the chimney, will

burst under the pressure of gas. Nevertheless, I repeat, it would be better

that there should not be an eruption."

"And yet we are not mistaken," remarked the reporter. "Mutterings can be

distinctly heard in the very bowels of the volcano!"

"You are right," said the engineer, again listening attentively. "Th ere

can be no doubt of it. A commotion is going on there, of which we can $\ensuremath{\mathbf{n}}$

neither estimate the importance nor the ultimate result."

Cyrus Harding and Spilett, on coming out, rejoined their companions, to whom they made known the state of affairs.

"Very well!" cried Pencroft, "The volcano wants to play his pranks!

Let

him try, if he likes! He will find his master!"

"Who?" asked Neb.

"Our good genius, Neb, our good genius, who will shut his mouth for him,

if he so much as pretends to open it!"

As may be seen, the sailor's confidence in the tutelary deity of his

island was absolute, and, certainly, the occult power, manifested un til now

in so many inexplicable ways, appeared to be unlimited; but also it knew

how to escape the colonists' most minute researches, for, in spite of all

their efforts, in spite of the more than zeal, -- the obstinacy, -- with which

they carried on their exploration, the retreat of the mysterious being

could not be discovered.

From the 19th to the 20th of February the circle of investigation was

extended to all the northern region of Lincoln Island, whose most se cret

nooks were explored. The colonists even went the length of tapping e very

rock. The search was extended to the extreme verge of the mountain.

explored thus to the very summit of the truncated cone terminating the

first row of rocks, then to the upper ridge of the enormous hat, at the

bottom of which opened the crater.

They did more; they visited the gulf, now extinct, but in whose dept hs

the rumbling could be distinctly heard. However, no sign of smoke or vapor,

no heating of the rock, indicated an approaching eruption. But neith er

there, nor in any other part of Mount Franklin, did the colonists find any

traces of him of whom they were in search.

Their investigations were then directed to the downs. They carefully

examined the high lava-cliffs of Shark Gulf from the base to the cre st.

although it was extremely difficult to reach even the level of the $\ensuremath{\mathsf{g}}$ ulf. No

one! -- nothing!

Indeed, in these three words was summed up so much fatigue uselessly

expended, so much energy producing no results, that somewhat of ange r mingled with the discomfiture of Cyrus Harding and his companions.

It was now time to think of returning, for these researches could no the

prolonged indefinitely. The colonists were certainly right in believ ing

that the mysterious being did not reside on the surface of the islan d, and

the wildest fancies haunted their excited imaginations. Pencroft and Neb,

particularly, were not contented with the mystery, but allowed their

imaginations to wander into the domain of the supernatural.

On the 25th of February the colonists re-entered Granite House, and by

means of the double cord, carried by an arrow to the threshold of the door,

they re-established communication between their habitation and the ground.

A month later they commemorated, on the 25th of March, the third anniversary of their arrival on Lincoln Island.

Chapter 14

Three years had passed away since the escape of the prisoners from Richmond, and how often during those three years had they spoken of their

country, always present in their thoughts!

They had no doubt that the civil war was at an end, and to them it appeared impossible that the just cause of the North had not triumph ed. But

what had been the incidents of this terrible war? How much blood had it not

cost? How many of their friends must have fallen in the struggle? They

often spoke of these things, without as yet being able to foresee the day

when they would be permitted once more to see their country. To return

thither, were it but for a few days, to renew the social link with the

inhabited world, to establish a communication between their native 1 and and

their island, then to pass the longest, perhaps the best, portion of their

existence in this colony, founded by them, and which would then be dependent on their country, was this a dream impossible to realize?

There were only two ways of accomplishing it--either a ship must app

ear

off Lincoln Island, or the colonists must themselves build a vessel strong

enough to sail to the nearest land.

"Unless," said Pencroft, "our good genius, himself provides us with the means of returning to our country."

means of recarring to our country.

And, really, had any one told Pencroft and Neb that a ship of 300 to ns

was waiting for them in Shark Gulf or at Port Balloon, they would no t even

have made a gesture of surprise. In their state of mind nothing appeared

improbable.

But Cyrus Harding, less confident, advised them to confine themselve s to

fact, and more especially so with regard to the building of a vessel
--a

really urgent work, since it was for the purpose of depositing, as s oon as

possible, at Tabor Island a document indicating Ayrton's new residen ce.

As the "Bonadventure" no longer existed, six months at least would be

required for the construction of a new vessel. Now winter was approaching,

and the voyage would not be made before the following spring.

"We have time to get everything ready for the fine season," remarked the

engineer, who was consulting with Pencroft about these matters. "I think,

therefore, my friend, that since we have to rebuild our vessel it will be

best to give her larger dimensions. The arrival of the Scotch yacht at

Tabor Island is very uncertain. It may even be that, having arrived several

months ago, she has again sailed after having vainly searched for so me

trace of Ayrton. Will it not then he best to build a ship which, if necessary, could take us either to the Polynesian Archipelago or to New

Zealand? What do you think?"

"I think, captain," answered the sailor; "I think that you are as capable

of building a large vessel as a small one. Neither the wood nor the tools

are wanting. It is only a question of time."

"And how many months would be required to build a vessel of from 250

to

300 tons?" asked Harding.

"Seven or eight months at least," replied Pencroft. "But it must not be

forgotten that winter is drawing near, and that in severe frost wood is

difficult to work. We must calculate on several weeks delay, and if our

vessel is ready by next November we may think ourselves very lucky."

"Well," replied Cyrus Harding, "that will be exactly the most favora ble

time for undertaking a voyage of any importance, either to Tabor Isl and or

to a more distant land."

"So it will, captain," answered the sailor. "Make out your plans the n;

the workmen are ready, and I imagine that Ayrton can lend us a good helping hand."

The colonists, having been consulted, approved the engineer's plan, and

it was, indeed, the best thing to be done. It is true that the const ruction

of a ship of from two to three hundred tons would be great labor, but the

colonists had confidence in themselves, justified by their previous success.

Cyrus Harding then busied himself in drawing the plan of the vessel and

making the model. During this time his companions employed themselve s in

felling and carting trees to furnish the ribs, timbers, and planks. The

forest of the Far West supplied the best oaks and elms. They took ad vantage

of the opening already made on their last excursion to form a practicable

road, which they named the Far West Road, and the trees were carried to the

Chimneys, where the dockyard was established. As to the road in question,

the choice of trees had rendered its direction somewhat capricious, but at

the same time it facilitated the access to a large part of the Serpe ntine

Peninsula.

It was important that the trees should be quickly felled and cut up, for

they could not be used while yet green, and some time was necessary to

allow them to get seasoned. The carpenters, therefore, worked vigoro usly

during the month of April, which was troubled only by a few equinoctial

gales of some violence. Master Jup aided them dexterously, either by

climbing to the top of a tree to fasten the ropes or by lending his stout

shoulders to carry the lopped trunks.

All this timber was piled up under a large shed, built near the Chimneys, and there awaited the time for use.

The month of April was tolerably fine, as October often is in the northern zone. At the same time other work was actively continued, a nd soon

all trace of devastation disappeared from the plateau of Prospect Heights.

The mill was rebuilt, and new buildings rose in the poultry-yard. It had

appeared necessary to enlarge their dimensions, for the feathered population had increased considerably. The stable now contained five

onagers, four of which were well broken, and allowed themselves to be ϵ

either driven or ridden, and a little colt. The colony now possessed

plow, to which the onagers were yoked like regular Yorkshire or Kent ucky

oxen. The colonists divided their work, and their arms never tired. Then

who could have enjoyed better health than these workers, and what go

humor enlivened the evenings in Granite House as they formed a thous and

plans for the future!

As a matter of course Ayrton shared the common lot in every respect, and

there was no longer any talk of his going to live at the corral.

Nevertheless he was still sad and reserved, and joined more in the \boldsymbol{w} ork

than in the pleasures of his companions. But he was a valuable workm an at

need--strong, skilful, ingenious, intelligent. He was esteemed and l oved by

all, and he could not be ignorant of it.

In the meanwhile the corral was not abandoned. Every other day one of the

settlers, driving the cart or mounted on an onager, went to look aft er the

flock of musmons and goats and bring back the supply of milk require d by

Neb. These excursions at the same time afforded opportunities for hunting.

Therefore Herbert and Gideon Spilett, with Top in front, traversed m ore

often than their companions the road to the corral, and with the capital

guns which they carried, capybaras, agouties, kangaroos, and wild pigs for

large game, ducks, grouse, jacamars, and snipe for small game, were never

wanting in the house. The produce of the warren, of the oyster-bed, several

turtles which were taken, excellent salmon which came up the Mercy, vegetables from the plateau, wild fruit from the forest, were riches upon

riches, and Neb, the head cook, could scarcely by himself store them away.

The telegraphic wire between the corral and Granite House had of course

been repaired, and it was worked whenever one or other of the settle rs was

at the corral and found it necessary to spend the night there. Besid es, the

island was safe now and no attacks were to be feared, at any rate from men.

However, that which had happened might happen again. A descent of pirates, or even of escaped convicts, was always to be feared. It was

possible that companions or accomplices of Bob Harvey had been in the

secret of his plans, and might be tempted to imitate him. The coloni sts,

therefore, were careful to observe the sea around the island, and every day

their telescope covered the horizon enclosed by Union and Washington Bays.

when they went to the corral they examined the sea to the west with no less

attention, and by climbing the spur their gaze extended over a large

section of the western horizon.

Nothing suspicious was discerned, but still it was necessary for the $\ensuremath{\text{m}}$ to

be on their quard.

The engineer one evening imparted to his friends a plan which he had

conceived for fortifying the corral. It appeared prudent to him to heighten

the palisade and to flank it with a sort of blockhouse, which, if necessary, the settlers could hold against the enemy. Granite House might,

by its very position, be considered impregnable; therefore the corral with

its buildings, its stores, and the animals it contained, would alway

s be

the object of pirates, whoever they were, who might land on the island, and

should the colonists be obliged to shut themselves up there they oug ht also

to be able to defend themselves without any disadvantage. This was a

project which might be left for consideration, and they were, beside s,

obliged to put off its execution until the next spring.

About the 15th of May the keel of the new vessel lay along the docky ard,

and soon the stem and stern-post, mortised at each of its extremities, rose

almost perpendicularly. The keel, of good oak, measured 110 feet in length,

this allowing a width of five-and-twenty feet to the midship beam. B ut this

was all the carpenters could do before the arrival of the frosts and bad

weather. During the following week they fixed the first of the stern

timbers, but were then obliged to suspend work.

During the last days of the month the weather was extremely bad. The wind

blew from the east, sometimes with the violence of a tempest. The en gineer

was somewhat uneasy on account of the dockyard shed--which besides, he

could not have established in any other place near to Granite House-for

the islet only imperfectly sheltered the shore from the fury of the open

sea, and in great storms the waves beat against the very foot of the granite cliff.

But, very fortunately, these fears were not realized. The wind shift ed to

the southeast, and there the beach of Granite House was completely covered

by Flotsam Point.

Pencroft and Ayrton, the most zealous workmen at the new vessel, pur sued

their labor as long as they could. They were not men to mind the win

tearing at their hair, nor the rain wetting them to the skin, and a blow

from a hammer is worth just as much in bad as in fine weather. But when a

severe frost succeeded this wet period, the wood, its fibers acquiring the

hardness of iron, became extremely difficult to work, and about the

10th of

June shipbuilding was obliged to be entirely discontinued.

Cyrus Harding and his companions had not omitted to observe how seve re

was the temperature during the winters of Lincoln Island. The cold w

comparable to that experienced in the States of New England, situate d at

almost the same distance from the equator. In the northern hemispher e, or

at any rate in the part occupied by British America and the north of the

United States, this phenomenon is explained by the flat conformation of the

territories bordering on the pole, and on which there is no intumesc ence of

the soil to oppose any obstacle to the north winds; here, in Lincoln

Island, this explanation would not suffice.

"It has even been observed," remarked Harding one day to his companions,

"that in equal latitudes the islands and coast regions are less trie d by

the cold than inland countries. I have often heard it asserted that the

winters of Lombardy, for example, are not less rigorous than those of

Scotland, which results from the sea restoring during the winter the heat

which it received during the summer. Islands are, therefore, in a be tter

situation for benefiting by this restitution."

"But then, Captain Harding," asked Herbert, "why does Lincoln Island appear to escape the common law?"

"That is difficult to explain," answered the engineer. "However, I s hould

be disposed to conjecture that this peculiarity results from the sit uation

of the island in the Southern Hemisphere, which, as you know, my boy , is

colder than the Northern Hemisphere."

"Yes," said Herbert, "and icebergs are met with in lower latitudes in the

south than in the north of the Pacific."

"That is true," remarked Pencroft, "and when I have been serving on board

whalers I have seen icebergs off Cape Horn."

"The severe cold experienced in Lincoln Island," said Gideon Spilett

"may then perhaps be explained by the presence of floes or icebergs comparatively near to Lincoln Island."

"Your opinion is very admissible indeed, my dear Spilett," answered Cyrus

Harding, "and it is evidently to the proximity of icebergs that we owwe our

rigorous winters. I would draw your attention also to an entirely physical

cause, which renders the Southern colder than the Northern Hemispher e. In

fact, since the sun is nearer to this hemisphere during the summer, it is

necessarily more distant during the winter. This explains then the excess

of temperature in the two seasons, for, if we find the winters very cold in

are very hot."

"But why, if you please, captain," asked Pencroft, knitting his brow s,

"why should our hemisphere, as you say, be so badly divided? It isn't just, that!"

"Friend Pencroft," answered the engineer, laughing, "whether just or not,

we must submit to it, and here lies the reason for this peculiarity. The

earth does not describe a circle around the sun, but an ellipse, as it must

by the laws of rational mechanics. Now, the earth occupies one of the foci

of the ellipse, and so at one point in its course is at its apogee, that

is, at its farthest from the sun, and at another point it is at its perigee, or nearest to the sun. Now it happens that it is during the winter

of the southern countries that it is at its most distant point from the

sun, and consequently, in a situation for those regions to feel the greatest cold. Nothing can be done to prevent that, and men, Pencrof t,

however learned they may be, can never change anything of the cosmographical order established by God Himself."

"And yet," added Pencroft, "the world is very learned. what a big bo ok, captain, might be made with all that is known!"

"And what a much bigger book still with all that is not known!" answered Harding.

At last, for one reason or another, the month of June brought the cold

with its accustomed intensity, and the settlers were often confined to

Granite House. Ah! how wearisome this imprisonment was to them, and more

particularly to Gideon Spilett.

"Look here," said he to Neb one day, "I would give you by notarial deed

all the estates which will come to me some day, if you were a good e nough

fellow to go, no matter where, and subscribe to some newspaper for me!

Decidedly the thing that is most essential to my happiness is the kn owing

every morning what has happened the day before in other places than this!"

Neb began to laugh.

"'Pon my word," he replied, "the only thing I think about is my dail y work!"

The truth was that indoors as well as out there was no want of work.

The colony of Lincoln Island was now at its highest point of prosper ity,

achieved by three years of continued hard work. The destruction of the brig

had been a new source of riches. Without speaking of the complete rig which

would serve for the vessel now on the stocks, utensils and tools of all

sorts, weapons and ammunition, clothes and instruments, were now pil ed in

the storerooms of Granite House. It had not even been necessary to resort

again to the manufacture of the coarse felt materials. Though the colonists

had suffered from cold during their first winter, the bad season might now

come without their having any reason to dread its severity. Linen was

plentiful also, and besides, they kept it with extreme care. From ch loride

of sodium, which is nothing else than sea salt, Cyrus Harding easily

extracted the soda and chlorine. The soda, which it was easy to chan ge into

carbonate of soda, and the chlorine, of which he made chloride of lime,

were employed for various domestic purposes, and especially in bleac

hing

linen. Besides, they did not wash more than four times a year, as was done

by families in the olden times, and it may be added, that Pencroft and

Gideon Spilett, while waiting for the postman to bring him his newspaper,

distinguished themselves as washermen.

So passed the winter months, June, July, and August. They were sever e,

and the average observations of the thermometer did not give more th an

eight degrees of Fahrenheit. It was therefore lower in temperature t han the

preceding winter. But then, what splendid fires blazed continually on the

hearths of Granite House, the smoke marking the granite wall with long,

zebra-like streaks! Fuel was not spared, as it grew naturally a few steps

from them. Besides, the chips of the wood destined for the construct ion of

the ship enabled them to economize the coal, which required more trouble to

transport.

Men and animals were all well. Master Jup was a little chilly, it mu st be

confessed. This was perhaps his only weakness, and it was necessary to make

him a well-padded dressing-gown. But what a servant he was, clever, zealous, indefatigable, not indiscreet, not talkative, and he might have

been with reason proposed as a model for all his biped brothers in the Old

and New Worlds!

"As for that," said Pencroft, "when one has four hands at one's service,

of course one's work ought to be done so much the better!"

And indeed the intelligent creature did it well.

During the seven months which had passed since the last researches m ade

round the mountain, and during the month of September, which brought back

fine weather, nothing was heard of the genius of the island. His pow er was

not manifested in any way. It is true that it would have been superf luous,

for no incident occurred to put the colonists to any painful trial.

Cyrus Harding even observed that if by chance the communication between

the unknown and the tenants of Granite House had ever been establish ed

through the granite, and if Top's instinct had as it were felt it, there

was no further sign of it during this period. The dog's growling had

entirely ceased, as well as the uneasiness of the orang. The two friends--

for they were such--no longer prowled round the opening of the inner well,

nor did they bark or whine in that singular way which from the first the

engineer had noticed. But could he be sure that this was all that was to be

said about this enigma, and that he should never arrive at a solution?

Could he be certain that some conjuncture would not occur which would bring

the mysterious personage on the scene? who could tell what the futur e might

have in reserve?

At last the winter was ended, but an event, the consequences of which he might be serious occurred in the first days of the returning spring.

On the 7th of September, Cyrus Harding, having observed the crater, saw

smoke curling round the summit of the mountain, its first vapors ris ing in the air.

Chapter 15

The colonists, warned by the engineer, left their work and gazed in silence at the summit of Mount Franklin.

The volcano had awoke, and the vapor had penetrated the mineral laye ${\tt r}$

heaped at the bottom of the crater. But would the subterranean fires

provoke any violent eruption? This was an event which could not be foreseen. However, even while admitting the possibility of an eruption, it

was not probable that the whole of Lincoln Island would suffer from it. The

flow of volcanic matter is not always disastrous, and the island had

already undergone this trial, as was shown by the streams of lava hardened

on the northern slopes of the mountain. Besides, from the shape of the

crater -- the opening broken in the upper edge -- the matter would be th

rown to

the side opposite the fertile regions of the island.

However, the past did not necessarily answer for the future. Often, at

the summit of volcanoes, the old craters close and new ones open. This had

occurred in the two hemispheres--at Etna, Popocatepetl, at Orizabaan d on

the eve of an eruption there is everything to be feared. In fact, an

earthquake--a phenomenon which often accompanies volcanic eruption-- is

enough to change the interior arrangement of a mountain, and to open new

outlets for the burning lava.

Cyrus Harding explained these things to his companions, and, without

exaggerating the state of things, he told them all the pros and cons . After

all, they could not prevent it. It did not appear likely that Granit e House

would be threatened unless the ground was shaken by an earthquake. But the

corral would be in great danger should a new crater open in the sout hern

side of Mount Franklin.

From that day the smoke never disappeared from the top of the mounta in,

and it could even be perceived that it increased in height and thick ness,

without any flame mingling in its heavy volumes. The phenomenon was still

concentrated in the lower part of the central crater.

However, with the fine days work had been continued. The building of the

vessel was hastened as much as possible, and, by means of the waterf all on $% \left(1\right) =\left(1\right) +\left(1\right)$

the shore, Cyrus Harding managed to establish an hydraulic sawmill, which

rapidly cut up the trunks of trees into planks and joists. The mechanism of

this apparatus was as simple as those used in the rustic sawmills of

Norway. A first horizontal movement to move the piece of wood, a sec ond

vertical movement to move the saw--this was all that was wanted; and the

engineer succeeded by means of a wheel, two cylinders, and pulleys p roperly

arranged. Towards the end of the month of September the skeleton of the

vessel, which was to be rigged as a schooner, lay in the dockyard. T

he ribs

were almost entirely completed, and, all the timbers having been sus tained

by a provisional band, the shape of the vessel could already be seen . The

schooner, sharp in the bows, very slender in the after-part, would evidently be suitable for a long voyage, if wanted; but laying the planking

would still take a considerable time. Very fortunately, the iron work of

the pirate brig had been saved after the explosion. From the planks and

injured ribs Pencroft and Ayrton had extracted the bolts and a large

quantity of copper nails. It was so much work saved for the smiths, but the

carpenters had much to do.

Shipbuilding was interrupted for a week for the harvest, the haymaking,

and the gathering in of the different crops on the plateau. This wor k

finished, every moment was devoted to finishing the schooner. When n ight

came the workmen were really quite exhausted. So as not to lose any time

they had changed the hours for their meals; they dined at twelve o'c lock,

and only had their supper when daylight failed them. They then ascen ded to

Granite House, when they were always ready to go to bed.

Sometimes, however, when the conversation bore on some interesting subject the hour for sleep was delayed for a time. The colonists the n spoke

of the future, and talked willingly of the changes which a voyage in the

schooner to inhabited lands would make in their situation. But alway s, in

the midst of these plans, prevailed the thought of a subsequent return to

Lincoln Island. Never would they abandon this colony, founded with so much

labor and with such success, and to which a communication with America

would afford a fresh impetus. Pencroft and Neb especially hoped to end

their days there.

"Herbert," said the sailor, "you will never abandon Lincoln Island?"

"Never, Pencroft, and especially if you make up your mind to stay there."

"That was made up long ago, my boy," answered Pencroft. "I shall exp

ect

you. You will bring me your wife and children, and I shall make joll

of your youngsters!"

"That's agreed," replied Herbert, laughing and blushing at the same

"And you, Captain Harding," resumed Pencroft enthusiastically, "you

be still the governor of the island! Ah, how many inhabitants could it

support? Ten thousand at least!"

They talked in this way, allowing Pencroft to run on, and at last th

reporter actually started a newspaper -- the New Lincoln Herald!

So is man's heart. The desire to perform a work which will endure, w hich

will survive him, is the origin of his superiority over all other li

creatures here below. It is this which has established his dominion, and

this it is which justifies it, over all the world.

After that, who knows if Jup and Top had not themselves their little dream of the future.

Ayrton silently said to himself that he would like to see Lord Glena rvan

again and show himself to all restored.

One evening, on the 15th of October, the conversation was prolonged later

than usual. It was nine o'clock. Already, long badly concealed yawns

warning of the hour of rest, and Pencroft was proceeding towards his

when the electric bell, placed in the dining-room, suddenly rang.

All were there, Cyrus Harding, Gideon Spilett, Herbert, Ayrton, Penc roft,

Neb. Therefore none of the colonists were at the corral.

Cyrus Harding rose. His companions stared at each other, scarcely believing their ears.

"What does that mean?" cried Neb. "Was it the devil who rang it?"

No one answered.

"The weather is stormy," observed Herbert. "Might not its influence electricity--"

Herbert did not finish his phrase. The engineer, towards whom all ey es

were turned, shook his head negatively.

"We must wait," said Gideon Spilett. "If it is a signal, whoever it may be who has made it, he will renew it."

"But who do you think it is?" cried Neb.

"Who?" answered Pencroft, "but he--"

The sailor's sentence was cut short by a new tinkle of the bell.

Harding went to the apparatus, and sent this question to the corral:

"What do you want?"

A few moments later the needle, moving on the alphabetic dial, gave this

reply to the tenants of Granite House: --

"Come to the corral immediately."

"At last!" exclaimed Harding.

Yes! At last! The mystery was about to be unveiled. The colonists' fatigue had disappeared before the tremendous interest which was about to

urge them to the corral, and all wish for rest had ceased. Without h aving

uttered a word, in a few moments they had left Granite House, and we re

standing on the beach. Jup and Top alone were left behind. They coul d do

without them.

The night was black. The new moon had disappeared at the same time a s the

sun. As Herbert had observed, great stormy clouds formed a lowering and

heavy vault, preventing any star rays. A few lightning flashes, reflections

from a distant storm, illuminated the horizon.

It was possible that a few hours later the thunder would roll over the

island itself. The night was very threatening.

But however deep the darkness was, it would not prevent them from finding

the familiar road to the corral.

They ascended the left bank of the Mercy, reached the plateau, passe

d the

bridge over Creek Glycerine, and advanced through the forest.

They walked at a good pace, a prey to the liveliest emotions. There was

no doubt but that they were now going to learn the long-searched-for

to the enigma, the name of that mysterious being, so deeply concerne d in

their life, so generous in his influence, so powerful in his action! Must

not this stranger have indeed mingled with their existence, have known the

smallest details, have heard all that was said in Granite House, to have

been able always to act in the very nick of time?

Every one, wrapped up in his own reflections, pressed forward. Under the

arch of trees the darkness was such that even the edge of the road could

not be seen. Not a sound in the forest. Both animals and birds, infl uenced

by the heaviness of the atmosphere, remained motionless and silent. Not a

breath disturbed the leaves. The footsteps of the colonists alone re sounded

on the hardened ground.

During the first quarter of an hour the silence was only interrupted by

this remark from Pencroft: --

"We ought to have brought a torch."

And by this reply from the engineer: --

"We shall find one at the corral."

Harding and his companions had left Granite House at twelve minutes past

nine. At forty-seven minutes past nine they had traversed three out of the

five miles which separated the mouth of the Mercy from the corral.

At that moment sheets of lightning spread over the island and illumined

the dark trees. The flashes dazzled and almost blinded them. Evidently the

storm would not be long in bursting forth.

The flashes gradually became brighter and more rapid. Distant thunde $\ensuremath{\mathbf{r}}$

growled in the sky. The atmosphere was stifling.

The colonists proceeded as if they were urged onwards by some

irresistible force.

At ten o'clock a vivid flash showed them the palisade, and as they reached the gate the storm burst forth with tremendous fury.

In a minute the corral was crossed, and Harding stood before the hut .

Probably the house was occupied by the stranger, since it was from thence that the telegram had been sent. However, no light shone through the window.

The engineer knocked at the door.

No answer.

Cyrus Harding opened the door, and the settlers entered the room, which

was perfectly dark. A light was struck by Neb, and in a few moments the

lantern was lighted and the light thrown into every corner of the room.

There was no one there. Everything was in the state in which it had been left.

"Have we been deceived by an illusion?" murmured Cyrus Harding.

No! that was not possible! The telegram had clearly said, --

"Come to the corral immediately."

They approached the table specially devoted to the use of the wire. Everything was in order--the pile on the box containing it, as well as all the apparatus.

"Who came here the last time?" asked the engineer.

"I did, captain," answered Ayrton.

"And that was--"

"Four days ago."

"Ah! a note!" cried Herbert, pointing to a paper lying on the table.

On this paper were written these words in English: --

"Follow the new wire."

"Forward!" cried Harding, who understood that the despatch had not b

een

sent from the corral, but from the mysterious retreat, communicating

directly with Granite House by means of a supplementary wire joined to the

old one.

Neb took the lighted lantern, and all left the corral. The storm the ${\bf n}$

burst forth with tremendous violence. The interval between each ligh tning-

flash and each thunder-clap diminished rapidly. The summit of the volcano,

with its plume of vapor, could be seen by occasional flashes.

There was no telegraphic communication in any part of the corral bet ween

the house and the palisade; but the engineer, running straight to the first

post, saw by the light of a flash a new wire hanging from the isolat or to

the ground.

"There it is!" said he.

This wire lay along the ground, and was surrounded with an isolating

substance like a submarine cable, so as to assure the free transmiss ion of

the current. It appeared to pass through the wood and the southern s purs of

the mountain, and consequently it ran towards the west.

"Follow it!" said Cyrus Harding.

And the settlers immediately pressed forward, guided by the wire.

The thunder continued to roar with such violence that not a word could be

heard. However, there was no occasion for speaking, but to get forward as

fast as possible.

Cyrus Harding and his companions then climbed the spur rising between

the corral valley and that of Falls River, which they crossed at its

narrowest part. The wire, sometimes stretched over the lower branche s of

the trees, sometimes lying on the ground, guided them surely. The en gineer

had supposed that the wire would perhaps stop at the bottom of the valley,

and that the stranger's retreat would be there.

Nothing of the sort. They were obliged to ascend the south-western s

pur,

and re-descend on that arid plateau terminated by the strangely-wild basalt

cliff. From time to time one of the colonists stooped down and felt for the

wire with his hands; but there was now no doubt that the wire was running

directly towards the sea. There, to a certainty, in the depths of th ose

rocks, was the dwelling so long sought for in vain.

The sky was literally on fire. Flash succeeded flash. Several struck the

summit of the volcano in the midst of the thick smoke. It appeared there as

if the mountain was vomiting flame. At a few minutes to eleven the colonists arrived on the high cliff overlooking the ocean to the wes t. The

wind had risen. The surf roared 500 feet below.

Harding calculated that they had gone a mile and a half from the corral.

At this point the wire entered among the rocks, following the steep side

of a narrow ravine. The settlers followed it at the risk of occasion ing a

fall of the slightly-balanced rocks, and being dashed into the sea. The

descent was extremely perilous, but they did not think of the danger; they

were no longer masters of themselves, and an irresistible attraction drew

them towards this mysterious place as the magnet draws iron.

Thus they almost unconsciously descended this ravine, which even in broad

daylight would have been considered impracticable.

The stones rolled and sparkled like fiery balls when they crossed th rough

the gleams of light. Harding was first--Ayrton last. On they went, s tep by

step. Now they slid over the slippery rock; then they struggled to their

feet and scrambled on.

At last the wire touched the rocks on the beach. The colonists had reached the bottom of the basalt cliff.

There appeared a narrow ridge, running horizontally and parallel with the

sea. The settlers followed the wire along it. They had not gone a hundred

paces when the ridge by a moderate incline sloped down to the level of the

sea.

The engineer seized the wire and found that it disappeared beneath the waves.

His companions were stupefied.

A cry of disappointment, almost a cry of despair, escaped them! Must they

then plunge beneath the water and seek there for some submarine cave rn? In

their excited state they would not have hesitated to do it.

The engineer stopped them.

He led his companions to a hollow in the rocks, and there--

"We must wait," said he. "The tide is high. At low water the way wil be open."

"But what can make you think-" asked Pencroft.

"He would not have called us if the means had been wanting to enable us to reach him!"

Cyrus Harding spoke in a tone of such thorough conviction that no objection was raised. His remark, besides, was logical. It was quite

possible that an opening, practicable at low water, though hidden no w by the high tide, opened at the foot of the cliff.

There was some time to wait. The colonists remained silently crouching in

a deep hollow. Rain now began to fall in torrents. The thunder was re-

echoed among the rocks with a grand sonorousness.

The colonists' emotion was great. A thousand strange and extraordinary

ideas crossed their brains, and they expected some grand and superhuman

apparition, which alone could come up to the notion they had formed of the

mysterious genius of the island.

At midnight, Harding carrying the lantern, descended to the beach to reconnoiter.

The engineer was not mistaken. The beginning of an immense excavation could be seen under the water. There the wire, bending at a right an

gle, entered the yawning gulf.

Cyrus Harding returned to his companions, and said simply, --

"In an hour the opening will be practicable."

"It is there, then?" said Pencroft.

"Did you doubt it?" returned Harding.

"But this cavern must be filled with water to a certain height," observed Herbert.

"Either the cavern will be completely dry," replied Harding, "and in that

case we can traverse it on foot, or it will not be dry, and some means of

transport will be put at our disposal."

An hour passed. All climbed down through the rain to the level of the

sea. There was now eight feet of the opening above the water. It was like

the arch of a bridge, under which rushed the foaming water.

Leaning forward, the engineer saw a black object floating on the wat er.

He drew it towards him. It was a boat, moored to some interior projection

of the cave. This boat was iron-plated. Two oars lay at the bottom.

"Jump in!" said Harding.

In a moment the settlers were in the boat. Neb and Ayrton took the o ars,

Pencroft the rudder. Cyrus Harding in the bows, with the lantern, lighted $% \left(1\right) =\left(1\right) +\left(1\right) +$

the way.

The elliptical roof, under which the boat at first passed, suddenly rose;

but the darkness was too deep, and the light of the lantern too slight, for

either the extent, length, height, or depth of the cave to be ascert ained.

Solemn silence reigned in this basaltic cavern. Not a sound could penetrate

into it, even the thunder peals could not pierce its thick sides.

Such immense caves exist in various parts of the world, natural cryp ts

dating from the geological epoch of the globe. Some are filled by the sea;

others contain entire lakes in their sides. Such is Fingal's Cave, i

n the

island of Staffa, one of the Hebrides; such are the caves of Morgat, in the

bay of Douarnenez, in Brittany, the caves of Bonifacio, in Corsica, those

of Lyse-Fjord, in Norway; such are the immense Mammoth caverns in Kentucky,

500 feet in height, and more than twenty miles in length! In many parts of

the globe, nature has excavated these caverns, and preserved them for the $\ensuremath{\text{r}}$

admiration of man.

Did the cavern which the settlers were now exploring extend to the c enter

of the island? For a quarter of an hour the boat had been advancing, making

detours, indicated to Pencroft by the engineer in short sentences, \boldsymbol{w} hen all

at once, --

"More to the right!" he commanded.

The boat, altering its course, came up alongside the right wall. The engineer wished to see if the wire still ran along the side.

The wire was there fastened to the rock.

"Forward!" said Harding.

And the two oars, plunging into the dark waters, urged the boat onwards.

On they went for another quarter of an hour, and a distance of half- a-

mile must have been cleared from the mouth of the cave, when Harding 's

voice was again heard.

"Stop!" said he.

The boat stopped, and the colonists perceived a bright light illumin ating

the vast cavern, so deeply excavated in the bowels of the island, of which

nothing had ever led them to suspect the existence.

At a height of a hundred feet rose the vaulted roof, supported on ba salt

shafts. Irregular arches, strange moldings, appeared on the columns erected

by nature in thousands from the first epochs of the formation of the globe.

The basalt pillars, fitted one into the other, measured from forty to fifty

feet in height, and the water, calm in spite of the tumult outside, washed

their base. The brilliant focus of light, pointed out by the enginee r,

touched every point of rocks, and flooded the walls with light.

By reflection the water reproduced the brilliant sparkles, so that the

boat appeared to be floating between two glittering zones. They could not

be mistaken in the nature of the irradiation thrown from the glowing

nucleus, whose clear rays were shattered by all the angles, all the projections of the cavern. This light proceeded from an electric source,

and its white color betrayed its origin. It was the sun of this cave , and

it filled it entirely.

At a sign from Cyrus Harding the oars again plunged into the water, causing a regular shower of gems, and the boat was urged forward tow ards

the light, which was now not more than half a cable's length distant

At this place the breadth of the sheet of water measured nearly 350 feet,

and beyond the dazzling center could be seen an enormous basaltic wa 11,

blocking up any issue on that side. The cavern widened here consider ably,

the sea forming a little lake. But the roof, the side walls, the end cliff,

all the prisms, all the peaks, were flooded with the electric fluid, so

that the brilliancy belonged to them, and as if the light issued from them.

In the center of the lake a long cigar-shaped object floated on the surface of the water, silent, motionless. The brilliancy which issue d from

it escaped from its sides as from two kilns heated to a white heat. This

apparatus, similar in shape to an enormous whale, was about 250 feet long,

and rose about ten or twelve above the water.

The boat slowly approached it, Cyrus Harding stood up in the bows. H

gazed, a prey to violent excitement. Then, all at once, seizing the reporter's arm,--

"It is he! It can only be he!" he cried, "he!--"

Then, falling back on the seat, he murmured a name which Gideon Spil ett

alone could hear.

The reporter evidently knew this name, for it had a wonderful effect upon him, and he answered in a hoarse voice,--

"He! an outlawed man!"

"He!" said Harding.

At the engineer's command the boat approached this singular floating apparatus. The boat touched the left side, from which escaped a ray of light through a thick glass.

Harding and his companions mounted on the platform. An open hatchway was there. All darted down the opening.

At the bottom of the ladder was a deck, lighted by electricity. At the end of this deck was a door, which Harding opened.

A richly-ornamented room, quickly traversed by the colonists, was joined to a library, over which a luminous ceiling shed a flood of light.

At the end of the library a large door, also shut, was opened by the engineer.

An immense saloon--a sort of museum, in which were heaped up, with a ll

the treasures of the mineral world, works of art, marvels of industry--

appeared before the eyes of the colonists, who almost thought themse lves

suddenly transported into a land of enchantment.

Stretched on a rich sofa they saw a man, who did not appear to notic e their presence.

Then Harding raised his voice, and to the extreme surprise of his companions, he uttered these words,--

"Captain Nemo, you asked for us! We are here.--"

Chapter 16

At these words the reclining figure rose, and the electric light fel lupon his countenance; a magnificent head, the forehead high, the glance commanding, beard white, hair abundant and falling over the shoulder

s.

His hand rested upon the cushion of the divan from which he had just

risen. He appeared perfectly calm. It was evident that his strength had

been gradually undermined by illness, but his voice seemed yet power ful, as

he said in English, and in a tone which evinced extreme surprise, --

"Sir, I have no name."

"Nevertheless, I know you!" replied Cyrus Harding.

Captain Nemo fixed his penetrating gaze upon the engineer, as though he

were about to annihilate him.

Then, falling back amid the pillows of the divan, --

"After all, what matters now?" he murmured; "I am dying!"

Cyrus Harding drew near the captain, and Gideon Spilett took his han d--it

was of a feverish heat. Ayrton, Pencroft, Herbert, and Neb stood respectfully apart in an angle of the magnificent saloon, whose atmosphere

was saturated with the electric fluid.

Meanwhile Captain Nemo withdrew his hand, and motioned the engineer and

the reporter to be seated.

All regarded him with profound emotion. Before them they beheld that

being whom they had styled the "genius of the island," the powerful protector whose intervention, in so many circumstances, had been so efficacious, the benefactor to whom they owed such a debt of gratitu de!

Their eyes beheld a man only, and a man at the point of death, where

Pencroft and Neb had expected to find an almost supernatural being!

But how happened it that Cyrus Harding had recognized Captain Nemo? why

had the latter so suddenly risen on hearing this name uttered, a nam e which

he had believed known to none?--

The captain had resumed his position on the divan, and leaning on his arm, he regarded the engineer, seated near him.

"You know the name I formerly bore, sir?" he asked.

"I do," answered Cyrus Harding, "and also that of this wonderful submarine vessel--"

"The 'Nautilus'?" said the captain, with a faint smile.

"The 'Nautilus.'"

"But do you--do you know who I am?"

"I do."

"It is nevertheless many years since I have held any communication w

the inhabited world; three long years have I passed in the depth of

sea, the only place where I have found liberty! Who then can have be trayed

my secret?"

"A man who was bound to you by no tie, Captain Nemo, and who, consequently, cannot be accused of treachery."

"The Frenchman who was cast on board my vessel by chance sixteen yea since?"

"The same."

"He and his two companions did not then perish in the maelstrom, in midst of which the 'Nautilus' was struggling?"

"They escaped, and a book has appeared under the title of 'Twenty Thousand Leagues Under the Sea, ' which contains your history."

"The history of a few months only of my life!" interrupted the capta impetuously.

"It is true," answered Cyrus Harding, "but a few months of that stra nge life have sufficed to make you known."

"As a great criminal, doubtless!" said Captain Nemo, a haughty smile curling his lips. "Yes, a rebel, perhaps an outlaw against humanity!

The engineer was silent.

"Well, sir?"

"It is not for me to judge you, Captain Nemo," answered Cyrus Hardin

"at any rate as regards your past life. I am, with the rest of the w

ignorant of the motives which induced you to adopt this strange mode of

existence, and I cannot judge of effects without knowing their cause s; but

what I do know is, that a beneficent hand has constantly protected us since

our arrival on Lincoln Island, that we all owe our lives to a good, generous, and powerful being, and that this being so powerful, good and

generous, Captain Nemo, is yourself!"

"It is I," answered the captain simply.

The engineer and the reporter rose. Their companions had drawn near, and

the gratitude with which their hearts were charged was about to expr

itself in their gestures and words.

Captain Nemo stopped them by a sign, and in a voice which betrayed ${\tt m}$ ore

emotion than he doubtless intended to show.

"Wait till you have heard all," he said.

And the captain, in a few concise sentences, ran over the events of his life.

His narrative was short, yet he was obliged to summon up his whole remaining energy to arrive at the end. He was evidently contending a gainst

extreme weakness. Several times Cyrus Harding entreated him to repose for a

while, but he shook his head as a man to whom the morrow may never c ome,

and when the reporter offered his assistance, --

"It is useless," he said; "my hours are numbered."

Captain Nemo was an Indian, the Prince Dakkar, son of a rajah of the then

independent territory of Bundelkund. His father sent him, when ten y ears of

age, to Europe, in order that he might receive an education in all respects

complete, and in the hopes that by his talents and knowledge he might one

day take a leading part in raising his long degraded and heathen country to

a level with the nations of Europe.

From the age of ten years to that of thirty Prince Dakkar, endowed by

Nature with her richest gifts of intellect, accumulated knowledge of every

kind, and in science, literature, and art his researches were extens ive and

profound.

He traveled over the whole of Europe. His rank and fortune caused hi $\ensuremath{\text{m}}$ to

be everywhere sought after; but the pleasures of the world had for h im no

attractions. Though young and possessed of every personal advantage, he was

ever grave--somber even--devoured by an unquenchable thirst for know ledge,

and cherishing in the recesses of his heart the hope that he might become a

great and powerful ruler of a free and enlightened people.

Still, for long the love of science triumphed over all other feeling s. He

became an artist deeply impressed by the marvels of art, a philosoph er to

whom no one of the higher sciences was unknown, a statesman versed in the

policy of European courts. To the eyes of those who observed him superficially he might have passed for one of those cosmopolitans, c urious

of knowledge, but disdaining action; one of those opulent travelers,

haughty and cynical, who move incessantly from place to place, and a re of

no country.

The history of Captain Nemo has, in fact, been published under the title

of "Twenty Thousand Leagues Under the Sea." Here, therefore, will apply the

observation already made as to the adventures of Ayrton with regard to the

discrepancy of dates. Readers should therefore refer to the note already

published on this point.

This artist, this philosopher, this man was, however, still cherishing

the hope instilled into him from his earliest days.

Prince Dakkar returned to Bundelkund in the year 1849. He married a noble

Indian lady, who was imbued with an ambition not less ardent than that by

which he was inspired. Two children were born to them, whom they ten derly

loved. But domestic happiness did not prevent him from seeking to carry out

the object at which he aimed. He waited an opportunity. At length, a s he

vainly fancied, it presented itself.

Instigated by princes equally ambitious and less sagacious and more

unscrupulous than he was, the people of India were persuaded that they

might successfully rise against their English rulers, who had brough t them

out of a state of anarchy and constant warfare and misery, and had established peace and prosperity in their country. Their ignorance a nd

gross superstition made them the facile tools of their designing chi efs.

In 1857 the great sepoy revolt broke out. Prince Dakkar, under the belief

that he should thereby have the opportunity of attaining the object of his

long-cherished ambition, was easily drawn into it. He forthwith devoted his

talents and wealth to the service of this cause. He aided it in pers on; he

fought in the front ranks; he risked his life equally with the humbl est of

the wretched and misguided fanatics; he was ten times wounded in twe nty

engagements, seeking death but finding it not, but at length the san guinary

rebels were utterly defeated, and the atrocious mutiny was brought to an end.

Never before had the British power in India been exposed to such danger,

and if, as they had hoped, the sepoys had received assistance from without,

the influence and supremacy in Asia of the United Kingdom would have been a

thing of the past.

The name of Prince Dakkar was at that time well known. He had fought openly and without concealment. A price was set upon his head, but he managed to escape from his pursuers.

Civilization never recedes; the law of necessity ever forces it onwards.

The sepoys were vanquished, and the land of the rajahs of old fell a gain

under the rule of England.

Prince Dakkar, unable to find that death he courted, returned to the

mountain fastnesses of Bundelkund. There, alone in the world, overcome by

disappointment at the destruction of all his vain hopes, a prey to profound

disgust for all human beings, filled with hatred of the civilized world, he

realized the wreck of his fortune, assembled some score of his most faithful companions, and one day disappeared, leaving no trace behin d.

Where, then, did he seek that liberty denied him upon the inhabited earth? Under the waves, in the depths of the ocean, where none could follow.

The warrior became the man of science. Upon a deserted island of the

Pacific he established his dockyard, and there a submarine vessel was

constructed from his designs. By methods which will at some future d ay be

revealed he had rendered subservient the illimitable forces of elect ricity,

which, extracted from inexhaustible sources, was employed for all the

requirements of his floating equipage, as a moving, lighting, and he ating

agent. The sea, with its countless treasures, its myriads of fish, its

numberless wrecks, its enormous mammalia, and not only all that nature

supplied, but also all that man had lost in its depths, sufficed for every

want of the prince and his crew--and thus was his most ardent desire

accomplished, never again to hold communication with the earth. He n amed

his submarine vessel the "Nautilus," called himself simply Captain N $\,$ emo,

and disappeared beneath the seas.

During many years this strange being visited every ocean, from pole to

pole. Outcast of the inhabited earth in these unknown worlds he gath ered

incalculable treasures. The millions lost in the Bay of Vigo, in 170 2, by

the galleons of Spain, furnished him with a mine of inexhaustible riches

which he devoted always, anonymously, in favor of those nations who fought

for the independence of their country.

(This refers to the resurrection of the Candiotes, who were, in

fact, largely assisted by Captain Nemo.)

For long, however, he had held no communication with his fellow-creatures, when, during the night of the 6th of November, 1866, three men

were cast on board his vessel. They were a French professor, his ser vant,

and a Canadian fisherman. These three men had been hurled overboard by a

collision which had taken place between the "Nautilus" and the Unite d

States frigate "Abraham Lincoln," which had chased her.

Captain Nemo learned from this professor that the "Nautilus," taken now

for a gigantic mammal of the whale species, now for a submarine vess el

carrying a crew of pirates, was sought for in every sea.

He might have returned these three men to the ocean, from whence chance

had brought them in contact with his mysterious existence. Instead of doing

this he kept them prisoners, and during seven months they were enableed to

behold all the wonders of a voyage of twenty thousand leagues under the

sea.

One day, the 22nd of June, 1867, these three men, who knew nothing of the

past history of Captain Nemo, succeeded in escaping in one of the "Nautilus's" boats. But as at this time the "Nautilus" was drawn int o the

vortex of the maelstrom, off the coast of Norway, the captain natura lly

believed that the fugitives, engulfed in that frightful whirlpool, found

their death at the bottom of the abyss. He was unaware that the Frenchman

and his two companions had been miraculously cast on shore, that the

fishermen of the Lofoten Islands had rendered them assistance, and t hat the

professor, on his return to France, had published that work in which seven

months of the strange and eventful navigation of the "Nautilus" were

narrated and exposed to the curiosity of the public.

For a long time alter this, Captain Nemo continued to live thus, traversing every sea. But one by one his companions died, and found their

last resting-place in their cemetery of coral, in the bed of the Pacific.

At last Captain Nemo remained the solitary survivor of all those who had

taken refuge with him in the depths of the ocean.

He was now sixty years of age. Although alone, he succeeded in navig ating

the "Nautilus" towards one of those submarine caverns which had some times

served him as a harbor.

One of these ports was hollowed beneath Lincoln Island, and at this moment furnished an asylum to the "Nautilus."

The captain had now remained there six years, navigating the ocean no

longer, but awaiting death, and that moment when he should rejoin his

former companions, when by chance he observed the descent of the balloon

which carried the prisoners of the Confederates. Clad in his diving dress

he was walking beneath the water at a few cables' length from the sh ore of

the island, when the engineer had been thrown into the sea. Moved by a

feeling of compassion the captain saved Cyrus Harding.

His first impulse was to fly from the vicinity of the five castaways ; but

his harbor refuge was closed, for in consequence of an elevation of the

basalt, produced by the influence of volcanic action, he could no longer

pass through the entrance of the vault. Though there was sufficient depth

of water to allow a light craft to pass the bar, there was not enough for

the "Nautilus," whose draught of water was considerable.

Captain Nemo was compelled, therefore, to remain. He observed these men

thrown without resources upon a desert island, but had no wish to be

himself discovered by them. By degrees he became interested in their

efforts when he saw them honest, energetic, and bound to each other by the

ties of friendship. As if despite his wishes, he penetrated all the secrets

of their existence. By means of the diving dress he could easily reach the

well in the interior of Granite House, and climbing by the projections of

rock to its upper orifice he heard the colonists as they recounted the

past, and studied the present and future. He learned from them the tremendous conflict of America with America itself, for the abolition of

slavery. Yes, these men were worthy to reconcile Captain Nemo with that

humanity which they represented so nobly in the island.

Captain Nemo had saved Cyrus Harding. It was he also who had brought back

the dog to the Chimneys, who rescued Top from the waters of the lake , who

caused to fall at Flotsam Point the case containing so many things u seful

to the colonists, who conveyed the canoe back into the stream of the Mercy,

who cast the cord from the top of Granite House at the time of the a ttack

by the baboons, who made known the presence of Ayrton upon Tabor Isl and, by

means of the document enclosed in the bottle, who caused the explosi on of

the brig by the shock of a torpedo placed at the bottom of the canal , who

saved Herbert from certain death by bringing the sulphate of quinine
; and

finally, it was he who had killed the convicts with the electric balls, of

which he possessed the secret, and which he employed in the chase of

submarine creatures. Thus were explained so many apparently supernatural

occurrences, and which all proved the generosity and power of the captain.

Nevertheless, this noble misanthrope longed to benefit his proteges still

further. There yet remained much useful advice to give them, and, his heart

being softened by the approach of death, he invited, as we are aware , the

colonists of Granite House to visit the "Nautilus," by means of a wire

which connected it with the corral. Possibly he would not have done this

had he been aware that Cyrus Harding was sufficiently acquainted wit h his

history to address him by the name of Nemo.

The captain concluded the narrative of his life. Cyrus Harding then spoke; he recalled all the incidents which had exercised so benefice nt an

influence upon the colony, and in the names of his companions and himself

thanked the generous being to whom they owed so much.

But Captain Nemo paid little attention; his mind appeared to be absorbed

by one idea, and without taking the proffered hand of the engineer,-

"Now, sir, " said he, "now that you know my history, your judgment!"

In saying this, the captain evidently alluded to an important incide nt

witnessed by the three strangers thrown on board his vessel, and whi

ch the

French professor had related in his work, causing a profound and terrible

sensation. Some days previous to the flight of the professor and his two

companions, the "Nautilus," being chased by a frigate in the north of the

Atlantic had hurled herself as a ram upon this frigate, and sunk her without mercy.

Cyrus Harding understood the captain's allusion, and was silent.

"It was an enemy's frigate," exclaimed Captain Nemo, transformed for an

instant into the Prince Dakkar, "an enemy's frigate! It was she who attacked me--I was in a narrow and shallow bay--the frigate barred m y way-- $\,$

and I sank her!"

A few moments of silence ensued; then the captain demanded, --

"What think you of my life, gentlemen?"

Cyrus Harding extended his hand to the ci-devant prince and replied gravely, "Sir, your error was in supposing that the past can be resuscitated, and in contending against inevitable progress. It is one of

those errors which some admire, others blame; which God alone can ju dge. He

who is mistaken in an action which he sincerely believes to be right may be

an enemy, but retains our esteem. Your error is one that we may admire, and

your name has nothing to fear from the judgment of history, which do es not

condemn heroic folly, but its results."

The old man's breast swelled with emotion, and raising his hand to heaven,--

"Was I wrong, or in the right?" he murmured.

Cyrus Harding replied, "All great actions return to God, from whom they are derived. Captain Nemo, we, whom you have succored, shall ever mo

your loss."

Herbert, who had drawn near the captain, fell on his knees and kisse d his hand.

A tear glistened in the eyes of the dying man. "My child," he said, "may God bless you!"

Chapter 17

Day had returned. No ray of light penetrated into the profundity of the

cavern. It being high-water, the entrance was closed by the sea. But the

artificial light, which escaped in long streams from the skylights of the

"Nautilus" was as vivid as before, and the sheet of water shone around the $\,$

floating vessel.

An extreme exhaustion now overcame Captain Nemo, who had fallen back upon

the divan. It was useless to contemplate removing him to Granite House, for

he had expressed his wish to remain in the midst of those marvels of the

"Nautilus" which millions could not have purchased, and to wait ther e for

that death which was swiftly approaching.

During a long interval of prostration, which rendered him almost unconscious, Cyrus Harding and Gideon Spilett attentively observed the

condition of the dying man. It was apparent that his strength was gradually

diminishing. That frame, once so robust, was now but the fragile ten ement

of a departing soul. All of life was concentrated in the heart and h ead.

The engineer and reporter consulted in whispers. Was it possible to render any aid to the dying man? Might his life, if not saved, be prolonged

for some days? He himself had said that no remedy could avail, and h

awaited with tranquillity that death which had for him no terrors.

"We can do nothing," said Gideon Spilett.

"But of what is he dying?" asked Pencroft.

"Life is simply fading out," replied the reporter.

"Nevertheless," said the sailor, "if we move him into the open air, and

the light of the sun, he might perhaps recover."

"No, Pencroft," answered the engineer, "it is useless to attempt it.

Besides, Captain Nemo would never consent to leave his vessel. He has lived

for a dozen years on board the 'Nautilus,' and on board the 'Nautilu

s' he desires to die."

Without doubt Captain Nemo heard Cyrus Harding's reply, for he raise d himself slightly, and in a voice more feeble, but always intelligible,--

"You are right, sir," he said. "I shall die here--it is my wish; and therefore I have a request to make of you."

Cyrus Harding and his companions had drawn near the divan, and now arranged the cushions in such a manner as to better support the dyin g man.

They saw his eyes wander over all the marvels of this saloon, lighte d by

the electric rays which fell from the arabesques of the luminous ceiling.

He surveyed, one after the other, the pictures hanging from the sple ndid

tapestries of the partitions, the chef-d'oeuvres of the Italian, Fle mish,

French, and Spanish masters; the statues of marble and bronze on the ir

pedestals; the magnificent organ, leaning against the after-partitio n; the

aquarium, in which bloomed the most wonderful productions of the sea

marine plants, zoophytes, chaplets of pearls of inestimable value; a nd.

finally, his eyes rested on this device, inscribed over the pediment of the

museum--the motto of the "Nautilus"--

"Mobilis in mobile."

His glance seemed to rest fondly for the last time on these masterpi eces

of art and of nature, to which he had limited his horizon during a sojourn

of so many years in the abysses of the seas.

Cyrus Harding respected the captain's silence, and waited till he sh ould speak.

After some minutes, during which, doubtless, he passed in review his whole life, Captain Nemo turned to the colonists and said,

"You consider yourselves, gentlemen, under some obligations to me?"

"Captain, believe us that we would give our lives to prolong yours."

"Promise, then," continued Captain Nemo, "to carry out my last wishes, and I shall be repaid for all I have done for you."

"We promise," said Cyrus Harding.

And by this promise he bound both himself and his companions.

"Gentlemen," resumed the captain, "to-morrow I shall be dead."

Herbert was about to utter an exclamation, but a sign from the capta in arrested him.

"To-morrow I shall die, and I desire no other tomb than the 'Nautilu s.'
It is my grave! All my friends repose in the depths of the ocean; th eir resting-place shall be mine."

These words were received with profound silence.

"Pay attention to my wishes," he continued. "The 'Nautilus' is imprisoned $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

in this grotto, the entrance of which is blocked up; but, although egress

is impossible, the vessel may at least sink in the abyss, and there bury $\ensuremath{\mathsf{my}}$ remains."

The colonists listened reverently to the words of the dying man.

"To-morrow, after my death, Mr. Harding," continued the captain, "yourself and companions will leave the 'Nautilus,' for all the trea sures

it contains must perish with me. One token alone will remain with yo u of

Prince Dakkar, with whose history you are now acquainted. That coffe r

yonder contains diamonds of the value of many millions, most of them

mementoes of the time when, husband and father, I thought happiness possible for me, and a collection of pearls gathered by my friends a nd

myself in the depths of the ocean. Of this treasure at a future day, you

may make good use. In the hands of such men as yourself and your com rades,

Captain Harding, money will never be a source of danger. From on high

shall still participate in your enterprises, and I fear not but that they

will prosper."

After a few moments' repose, necessitated by his extreme weakness, Captain Nemo continued,--

"To-morrow you will take the coffer, you will leave the saloon, of w hich

you will close the door; then you will ascend on to the deck of the 'Nautilus,' and you will lower the mainhatch so as entirely to close the vessel."

"It shall be done, captain," answered Cyrus Harding.

"Good. You will then embark in the canoe which brought you hither; but,

before leaving the 'Nautilus,' go to the stern and there open two large

stop-cocks which you will find upon the water-line. The water will penetrate

into the reservoirs, and the 'Nautilus' will gradually sink beneath the

water to repose at the bottom of the abyss."

And comprehending a gesture of Cyrus Harding, the captain added, --

"Fear nothing! You will but bury a corpse!"

Neither Cyrus Harding nor his companions ventured to offer any observation to Captain Nemo. He had expressed his last wishes, and they had nothing to do but to conform to them.

"I have your promise, gentlemen?" added Captain Nemo.

"You have, captain," replied the engineer.

The captain thanked the colonists by a sign, and requested them to 1

him for some hours. Gideon Spilett wished to remain near him, in the event

of a crisis coming on, but the dying man refused, saying, "I shall live

until to-morrow, sir."

All left the saloon, passed through the library and the dining-room, and

arrived forward, in the machine-room where the electrical apparatus

established, which supplied not only heat and light, but the mechanical

power of the "Nautilus."

The "Nautilus" was a masterpiece containing masterpieces with itself , and

the engineer was struck with astonishment.

The colonists mounted the platform, which rose seven or eight feet a bove

the water. There they beheld a thick glass lenticular covering, which

protected a kind of large eye, from which flashed forth light. Behin d this

eye was apparently a cabin containing the wheels of the rudder, and in

which was stationed the helmsman, when he navigated the "Nautilus" over the

bed of the ocean, which the electric rays would evidently light up to a

considerable distance.

Cyrus Harding and his companions remained for a time silent, for the y

were vividly impressed by what they had just seen and heard, and the ir

hearts were deeply touched by the thought that he whose arm had so o ften

aided them, the protector whom they had known but a few hours, was a t the $\ensuremath{\text{\text{the}}}$

point of death.

Whatever might be the judgment pronounced by posterity upon the even ts of

this, so to speak, extra-human existence, the character of Prince Dakkar

would ever remain as one of those whose memory time can never efface .

"What a man!" said Pencroft. "Is it possible that he can have lived at

the bottom of the sea? And it seems to me that perhaps he has not found

peace there any more than elsewhere!"

"The 'Nautilus,'" observed Ayrton, "might have enabled us to leave Lincoln Island and reach some inhabited country."

"Good Heavens!" exclaimed Pencroft, "I for one would never risk myse lf in

such a craft. To sail on the seas, good, but under the seas, never!"

"I believe, Pencroft," answered the reporter, "that the navigation of a

submarine vessel such as the 'Nautilus' ought to be very easy, and t hat we

should soon become accustomed to it. There would be no storms, no le e-shore

to fear. At some feet beneath the surface the waters of the ocean ar e as

calm as those of a lake."

"That may be," replied the sailor, "but I prefer a gale of wind on b

oard

a well-found craft. A vessel is built to sail on the sea, and not be neath it."

"My friends," said the engineer, "it is useless, at any rate as regards

the 'Nautilus,' to discuss the question of submarine vessels. The 'Nautilus' is not ours, and we have not the right to dispose of it. Moreover, we could in no case avail ourselves of it. Independently of the

fact that it would be impossible to get it out of this cavern, whose

entrance is now closed by the uprising of the basaltic rocks, Captain

Nemo's wish is that it shall be buried with him. His wish is our law , and

we will fulfil it."

After a somewhat prolonged conversation, Cyrus Harding and his companions

again descended to the interior of the "Nautilus." There they took some

refreshment and returned to the saloon.

Captain Nemo had somewhat rallied from the prostration which had ove rcome

him, and his eyes shone with their wonted fire. A faint smile even curled

his lips.

The colonists drew around him.

"Gentlemen," said the captain, "you are brave and honest men. You have

devoted yourselves to the common weal. Often have I observed your conduct.

I have esteemed you -- I esteem you still! Your hand, Mr. Harding."

Cyrus Harding gave his hand to the captain, who clasped it affectionately.

"It is well!" he murmured.

He resumed, --

"But enough of myself. I have to speak concerning yourselves, and th

Lincoln Island, upon which you have taken refuge. You now desire to leave it?"

"To return, captain!" answered Pencroft quickly.

"To return, Pencroft?" said the captain, with a smile. "I know, it is

true, your love for this island. You have helped to make it what it now is,

and it seems to you a paradise!"

"Our project, captain," interposed Cyrus Harding, "is to annex it to the

United States, and to establish for our shipping a port so fortunate ly

situated in this part of the Pacific."

"Your thoughts are with your country, gentlemen," continued the capt ain;

"your toils are for her prosperity and glory. You are right. One's n ative

land!--there should one live! there die! And I die far from all I lo
ved!"

"You have some last wish to transmit," said the engineer with emotion,

"some souvenir to send to those friends you have left in the mountains of India?"

"No, Captain Harding; no friends remain to me! I am the last of my race.

and to all whom I have known I have long been as are the dead.--But to

return to yourselves. Solitude, isolation, are painful things, and b eyond

human endurance. I die of having thought it possible to live alone! You

should, therefore, dare all in the attempt to leave Lincoln Island, and see

once more the land of your birth. I am aware that those wretches hav

destroyed the vessel you have built."

"We propose to construct a vessel," said Gideon Spilett, "sufficient ly

large to convey us to the nearest land; but if we should succeed, so oner or

later we shall return to Lincoln Island. We are attached to it by to o many

recollections ever to forget it."

"It is here that we have known Captain Nemo," said Cyrus Harding.

"It is here only that we can make our home!" added Herbert.

"And here shall I sleep the sleep of eternity, if--" replied the cap tain.

He paused for a moment, and, instead of completing the sentence, said simply,--

"Mr. Harding, I wish to speak with you--alone!"

The engineer's companions, respecting the wish, retired.

Cyrus Harding remained but a few minutes alone with Captain Nemo, an

soon recalled his companions; but he said nothing to them of the private

matters which the dying man had confided to him.

Gideon Spilett now watched the captain with extreme care. It was evident

that he was no longer sustained by his moral energy, which had lost the

power of reaction against his physical weakness.

The day closed without change. The colonists did not quit the "Nautilus"

for a moment. Night arrived, although it was impossible to distingui sh it

from day in the cavern.

Captain Nemo suffered no pain, but he was visibly sinking. His noble

features, paled by the approach of death, were perfectly calm. Inaudible

words escaped at intervals from his lips, bearing upon various incid ents of

his checkered career. Life was evidently ebbing slowly and his extre mities

were already cold.

Once or twice more he spoke to the colonists who stood around \mbox{him} , a \mbox{nd}

smiled on them with that last smile which continues after death.

At length, shortly after midnight, Captain Nemo by a supreme effort succeeded in folding his arms across his breast, as if wishing in that

attitude to compose himself for death.

By one o'clock his glance alone showed signs of life. A dying light gleamed in those eyes once so brilliant. Then, murmuring the words, "God

and my country!" he quietly expired.

Cyrus Harding, bending low closed the eyes of him who had once been the

Prince Dakkar, and was now not even Captain Nemo.

Herbert and Pencroft sobbed aloud. Tears fell from Ayrton's eyes. Ne b was

on his knees by the reporter's side, motionless as a statue.

Then Cyrus Harding, extending his hand over the forehead of the dead

,

said solemnly, "May his soul be with God!" Turning to his friends, h
e
added, "Let us pray for him whom we have lost!"

Some hours later the colonists fulfilled the promise made to the cap tain

by carrying out his dying wishes.

Cyrus Harding and his companions quitted the "Nautilus," taking with them

the only memento left them by their benefactor, the coffer which contained

wealth amounting to millions.

The marvelous saloon, still flooded with light, had been carefully closed. The iron door leading on deck was then securely fastened in such a

manner as to prevent even a drop of water from penetrating to the in terior

of the "Nautilus."

The colonists then descended into the canoe, which was moored to the side of the submarine vessel.

The canoe was now brought around to the stern. There, at the water-line,

were two large stop-cocks communicating with the reservoirs employed in the

submersion of the vessel.

The stop-cocks were opened, the reservoirs filled, and the "Nautilus," slowly sinking, disappeared beneath the surface of the lake.

But the colonists were yet able to follow its descent through the way

The powerful light it gave forth lighted up the translucent water, \mathbf{w} hile

the cavern became gradually obscure. At length this vast effusion of

electric light faded away, and soon after the "Nautilus," now the to mb of

Captain Nemo, reposed in its ocean bed.

Chapter 18

At break of day the colonists regained in silence the entrance of the cavern, to which they gave the name of "Dakkar Grotto," in memory of Captain Nemo. It was now low-water, and they passed without difficulty

under the arcade, washed on the right by the sea.

The canoe was left here, carefully protected from the waves. As additional precaution, Pencroft, Neb, and Ayrton drew it up on a lit tle

beach which bordered one of the sides of the grotto, in a spot where it

could run no risk of harm.

The storm had ceased during the night. The last low mutterings of the

thunder died away in the west. Rain fell no longer, but the sky was yet

obscured by clouds. On the whole, this month of October, the first of the

southern spring, was not ushered in by satisfactory tokens, and the wind

had a tendency to shift from one point of the compass to another, which

rendered it impossible to count upon settled weather.

Cyrus Harding and his companions, on leaving Dakkar Grotto, had take n the

road to the corral. On their way Neb and Herbert were careful to pre serve

the wire which had been laid down by the captain between the corral and the

grotto, and which might at a future time be of service.

The colonists spoke but little on the road. The various incidents of the

night of October 15th had left a profound impression on their minds. The

unknown being whose influence had so effectually protected them, the man

whom their imagination had endowed with supernatural powers, Captain Nemo,

was no more. His "Nautilus" and he were buried in the depths of the abyss.

To each one of them their existence seemed even more isolated than b efore.

They had been accustomed to count upon the intervention of that powe r which

existed no longer, and Gideon Spilett, and even Cyrus Harding, could not

escape this impression. Thus they maintained a profound silence during

their journey to the corral.

Towards nine in the morning the colonists arrived at Granite House.

It had been agreed that the construction of the vessel should be actively

pushed forward, and Cyrus Harding more than ever devoted his time and labor

to this object. It was impossible to divine what future lay before t

hem.

Evidently the advantage to the colonists would be great of having at their

disposal a substantial vessel, capable of keeping the sea even in he avy

weather, and large enough to attempt, in case of need, a voyage of some

duration. Even if, when their vessel should be completed, the coloni sts

should not resolve to leave Lincoln Island as yet, in order to gain either

one of the Polynesian Archipelagoes of the Pacific or the shores of New

Zealand, they might at least, sooner or later, proceed to Tabor Island, to

leave there the notice relating to Ayrton. This was a precaution ren dered

indispensable by the possibility of the Scotch yacht reappearing in those

seas, and it was of the highest importance that nothing should be ne glected

on this point.

The works were then resumed. Cyrus Harding, Pencroft, and Ayrton, assisted by Neb, Gideon Spilett, and Herbert, except when unavoidably

called off by other necessary occupations, worked without cessation. It was

important that the new vessel should be ready in five months--that is to

say, by the beginning of March--if they wished to visit Tabor Island before

the equinoctial gales rendered the voyage impracticable. Therefore the

carpenters lost not a moment. Moreover, it was unnecessary to manufa cture

rigging, that of the "Speedy" having been saved entire, so that the hull

only of the vessel needed to be constructed.

The end of the year 1868 found them occupied by these important labors.

to the exclusion of almost all others. At the expiration of two mont hs and

a half the ribs had been set up and the first planks adjusted. It was

already evident that the plans made by Cyrus Harding were admirable, and

that the vessel would behave well at sea.

Pencroft brought to the task a devouring energy, and would even grum ble

when one or the other abandoned the carpenter's axe for the gun of the

hunter. It was nevertheless necessary to keep up the stores of Grani te

House, in view of the approaching winter. But this did not satisfy Pencroft. The brave, honest sailor was not content when the workmen were

not at the dockyard. when this happened he grumbled vigorously, and, by way

of venting his feelings, did the work of six men.

The weather was very unfavorable during the whole of the summer seas on.

For some days the heat was overpowering, and the atmosphere, saturat ed with

electricity, was only cleared by violent storms. It was rarely that the

distant growling of the thunder could not be heard, like a low but incessant murmur, such as is produced in the equatorial regions of the

globe.

The 1st of January, 1869, was signalized by a storm of extreme viole nce,

and the thunder burst several times over the island. Large trees wer e

struck by the electric fluid and shattered, and among others one of those

gigantic nettle-trees which had shaded the poultry-yard at the south ern

extremity of the lake. Had this meteor any relation to the phenomena going

on in the bowels of the earth? Was there any connection between the commotion of the atmosphere and that of the interior of the earth? C yrus

Harding was inclined to think that such was the case, for the development

of these storms was attended by the renewal of volcanic symptoms.

It was on the 3rd of January that Herbert, having ascended at daybre ak to

the plateau of Prospect Heights to harness one of the onagers, perce ived an

enormous hat-shaped cloud rolling from the summit of the volcano.

Herbert immediately apprised the colonists, who at once joined him i

watching the summit of Mount Franklin.

"Ah!" exclaimed Pencroft, "those are not vapors this time! It seems to me

that the giant is not content with breathing; he must smoke!"

This figure of speech employed by the sailor exactly expressed the changes going on at the mouth of the volcano. Already for three mont hs had

the crater emitted vapors more or less dense, but which were as yet produced only by an internal ebullition of mineral substances. But n ow the

vapors were replaced by a thick smoke, rising in the form of a grayi

sh

column, more than three hundred feet in width at its base, and which spread

like an immense mushroom to a height of from seven to eight hundred feet

above the summit of the mountain.

"The fire is in the chimney," observed Gideon Spilett.

"And we can't put it out!" replied Herbert.

"The volcano ought to be swept," observed Neb, who spoke as if perfectly serious.

"Well said, Neb!" cried Pencroft, with a shout of laughter; "and you 'll undertake the job, no doubt?"

Cyrus Harding attentively observed the dense smoke emitted by Mount Franklin, and even listened, as if expecting to hear some distant muttering. Then, turning towards his companions, from whom he had go ne

somewhat apart, he said, --

"The truth is, my friends, we must not conceal from ourselves that a n important change is going forward. The volcanic substances are no lo nger in a state of ebullition, they have caught fire, and we are undoubtedly menaced by an approaching eruption."

"Well, captain," said Pencroft, "we shall witness the eruption; and if it is a good one, we'll applaud it. I don't see that we need concern ou rselves further about the matter."

"It may be so," replied Cyrus Harding, "for the ancient track of the lava is still open; and thanks to this, the crater has hitherto overflowe d towards the north. And yet--"

"And yet, as we can derive no advantage from an eruption, it might be better it should not take place," said the reporter.

"Who knows?" answered the sailor. "Perhaps there may be some valuable substance in this volcano, which it will spout forth, and which we may turn to good account!"

Cyrus Harding shook his head with the air of a man who augured no go

od

from the phenomenon whose development had been so sudden. He did not regard

so lightly as Pencroft the results of an eruption. If the lava, in consequence of the position of the crater, did not directly menace the

wooded and cultivated parts of the island, other complications might

present themselves. In fact, eruptions are not unfrequently accompanied by

earthquakes; and an island of the nature of Lincoln Island, formed of

substances so varied, basalt on one side, granite on the other, lava on the

north, rich soil on the south, substances which consequently could n ot be

firmly attached to each other, would be exposed to the risk of disintegration. Although, therefore, the spreading of the volcanic matter

might not constitute a serious danger, any movement of the terrestri al

structure which should shake the island might entail the gravest consequences.

"It seems to me," said Ayrton, who had reclined so as to place his e ar to

the ground, "it seems to me that I can hear a dull, rumbling sound, like

that of a wagon loaded with bars of iron."

The colonists listened with the greatest attention, and were convinced

that Ayrton was not mistaken. The rumbling was mingled with a subter ranean

roar, which formed a sort of rinforzando, and died slowly away, as i f some

violent storm had passed through the profundities of the globe. But no

explosion properly so termed, could be heard. It might therefore be concluded that the vapors and smoke found a free passage through the

central shaft; and that the safety-valve being sufficiently large, no

convulsion would be produced, no explosion was to be apprehended.

"Well, then!" said Pencroft, "are we not going back to work? Let Mou nt

Franklin smoke, groan, bellow, or spout forth fire and flame as much as it

pleases, that is no reason why we should be idle! Come, Ayrton, Neb,

Herbert, Captain Harding, Mr. Spilett, every one of us must turn to at our

work to-day! We are going to place the keelson, and a dozen pair of hands

would not be too many. Before two months I want our new 'Bonadventur

e'--

for we shall keep the old name, shall we not?--to float on the water ${\bf s}$ of

Port Balloon! Therefore there is not an hour to lose!"

All the colonists, their services thus requisitioned by Pencroft, descended to the dockyard, and proceeded to place the keelson, a thick mass

of wood which forms the lower portion of a ship and unites firmly the

timbers of the hull. It was an arduous undertaking, in which all too ${\bf k}$ part.

They continued their labors during the whole of this day, the 3rd of

January, without thinking further of the volcano, which could not, besides,

be seen from the shore of Granite House. But once or twice, large sh adows,

veiling the sun, which described its diurnal arc through an extremel y clear

sky, indicated that a thick cloud of smoke passed between its disc a nd the

island. The wind, blowing on the shore, carried all these vapors to the

westward. Cyrus Harding and Gideon Spilett remarked these somber appearances, and from time to time discussed the evident progress of the

volcanic phenomena, but their work went on without interruption. It was,

besides, of the first importance from every point of view, that the vessel

should be finished with the least possible delay. In presence of the

eventualities which might arise, the safety of the colonists would be to a

great extent secured by their ship. Who could tell that it might not prove

some day their only refuge?

In the evening, after supper, Cyrus Harding, Gideon Spilett, and Herbert

again ascended the plateau of Prospect Heights. It was already dark, and

the obscurity would permit them to ascertain if flames or incandesce

matter thrown up by the volcano were mingled with the vapor and smok e

accumulated at the mouth of the crater.

"The crater is on fire!" said Herbert, who, more active than his companion, first reached the plateau.

Mount Franklin, distant about six miles, now appeared like a giganti c torch, around the summit of which turned fuliginous flames. So much

smoke,

and possibly scoriae and cinders were mingled with them, that their light

gleamed but faintly amid the gloom of the night. But a kind of lurid

brilliancy spread over the island, against which stood out confusedly the

wooded masses of the heights. Immense whirlwinds of vapor obscured the sky,

through which glimmered a few stars.

"The change is rapid!" said the engineer.

"That is not surprising," answered the reporter. "The reawakening of the

volcano already dates back some time. You may remember, Cyrus, that the

first vapors appeared about the time we searched the sides of the mountain

to discover Captain Nemo's retreat. It was, if I mistake not, about the

15th of October."

"Yes," replied Herbert, "two months and a half ago!"

"The subterranean fires have therefore been smoldering for ten weeks ," resumed Gideon Spilett, "and it is not to be wondered at that they n

break out with such violence!"

"Do not you feel a certain vibration of the soil?" asked Cyrus Hardi ng .

"Yes," replied Gideon Spilett, "but there is a great difference between

that and an earthquake."

"I do not affirm that we are menaced with an earthquake," answered C yrus

Harding, "may God preserve us from that! No; these vibrations are du e to

the effervescence of the central fire. The crust of the earth is simply the

shell of a boiler, and you know that such a shell, under the pressur e of

steam, vibrates like a sonorous plate. it is this effect which is being

produced at this moment."

"What magnificent flames!" exclaimed Herbert.

At this instant a kind of bouquet of flames shot forth from the crat er,

the brilliancy of which was visible even through the vapors. Thousan ds of

luminous sheets and barbed tongues of fire were cast in various dire ctions.

Some, extending beyond the dome of smoke, dissipated it, leaving behind an

incandescent powder. This was accompanied by successive explosions, resembling the discharge of a battery of machine-guns.

Cyrus Harding, the reporter, and Herbert, after spending an hour on the

plateau of Prospect Heights, again descended to the beach, and returned to

Granite House. The engineer was thoughtful and preoccupied, so much so,

indeed, that Gideon Spilett inquired if he apprehended any immediate

danger, of which the eruption might directly or indirectly be the cause.

"Yes, and no," answered Cyrus Harding.

"Nevertheless," continued the reporter, "would not the greatest misfortune which could happen to us be an earthquake which would ove rturn

the island? Now, I do not suppose that this is to be feared, since the

vapors and lava have found a free outlet."

"True," replied Cyrus Harding, "and I do not fear an earthquake in the

sense in which the term is commonly applied to convulsions of the so il

provoked by the expansion of subterranean gases. But other causes may produce great disasters."

"How so, my dear Cyrus?'

"I am not certain. I must consider. I must visit the mountain. In a few

days I shall learn more on this point."

Gideon Spilett said no more, and soon, in spite of the explosions of the

volcano, whose intensity increased, and which were repeated by the e choes

of the island, the inhabitants of Granite House were sleeping soundly.

Three days passed by--the 4th, 5th, and 6th of January. The construction

of the vessel was diligently continued, and without offering further

explanations the engineer pushed forward the work with all his energ $\mathbf{y}.$

Mount Franklin was now hooded by a somber cloud of sinister aspect, and,

amid the flames, vomiting forth incandescent rocks, some of which fe ll back

into the crater itself. This caused Pencroft, who would only look at the

matter in the light of a joke, to exclaim, --

"Ah! the giant is playing at cup and ball; he is a conjurer."

In fact, the substances thrown up fell back again in to the abyss, a nd it

did not seem that the lava, though swollen by the internal pressure, had

yet risen to the orifice of the crater. At any rate, the opening on the

northeast, which was partly visible, poured out no torrent upon the northern slope of the mountain.

Nevertheless, however pressing was the construction of the vessel, o ther

duties demanded the presence of the colonists on various portions of the

island. Before everything it was necessary to go to the corral, where the

flocks of musmons and goats were enclosed, and replenish the provisi on of

forage for those animals. It was accordingly arranged that Ayrton should

proceed thither the next day, the 7th of January; and as he was sufficient

for the task, to which he was accustomed, Pencroft and the rest were

somewhat surprised on hearing the engineer say to Ayrton--

"As you are going to-morrow to the corral I will accompany you."

"But, Captain Harding," exclaimed the sailor, "our working days will not

be many, and if you go also we shall be two pair of hands short!"

"We shall return to-morrow," replied Cyrus Harding, "but it is neces sary

that I should go to the corral. I must learn how the eruption is progressing."

"The eruption! always the eruption!" answered Pencroft, with an air of

discontent. "An important thing, truly, this eruption! I trouble mys elf

very little about it."

Whatever might be the sailor's opinion, the expedition projected by the

engineer was settled for the next day. Herbert wished to accompany C yrus

Harding, but he would not vex Pencroft by his absence.

The next day, at dawn, Cyrus Harding and Ayrton, mounting the cart d rawn

by two onagers, took the road to the corral and set off at a round t rot.

Above the forest were passing large clouds, to which the crater of ${\tt M}$ ount

Franklin incessantly added fuliginous matter. These clouds, which rolled

heavily in the air, were evidently composed of heterogeneous substances. It

was not alone from the volcano that they derived their strange opacity and

weight. Scoriae, in a state of dust, like powdered pumice-stone, and

grayish ashes as small as the finest feculae, were held in suspensio ${\bf n}$ in

the midst of their thick folds. These ashes are so fine that they have been

observed in the air for whole months. After the eruption of 1783 in Iceland

for upwards of a year the atmosphere was thus charged with volcanic dust

through which the rays of the sun were only with difficulty discernible.

But more often this pulverized matter falls, and this happened on the

present occasion. Cyrus Harding and Ayrton had scarcely reached the corral

when a sort of black snow like fine gunpowder fell, and instantly changed

the appearance of the soil. Trees, meadows, all disappeared beneath a

covering several inches in depth. But, very fortunately, the wind bl ew from

the northeast, and the greater part of the cloud dissolved itself over the sea.

"This is very singular, Captain Harding," said Ayrton.

"It is very serious," replied the engineer. "This powdered pumice-st one,

all this mineral dust, proves how grave is the convulsion going forw ard in

the lower depths of the volcano."

"But can nothing be done?"

"Nothing, except to note the progress of the phenomenon. Do you, therefore, Ayrton, occupy yourself with the necessary work at the corral.

In the meantime I will ascend just beyond the source of Red Creek and

examine the condition of the mountain upon its northern aspect. Then

"Well, Captain Harding?"

"Then we will pay a visit to Dakkar Grotto. I wish to inspect it. At any

rate I will come back for you in two hours."

Ayrton then proceeded to enter the corral, and, while awaiting the engineer's return, busied himself with the musmons and goats which seemed

to feel a certain uneasiness in presence of these first signs of an eruption.

Meanwhile Cyrus Harding ascended the crest of the eastern spur, pass ed

Red Creek, and arrived at the spot where he and his companions had discovered a sulphurous spring at the time of their first exploration.

How changed was everything! Instead of a single column of smoke he counted thirteen, forced through the soil as if violently propelled by some

piston. It was evident that the crust of the earth was subjected in this

part of the globe to a frightful pressure. The atmosphere was satura ted

with gases and carbonic acid, mingled with aqueous vapors. Cyrus Har ding

felt the volcanic tufa with which the plain was strewn, and which was but

pulverized cinders hardened into solid blocks by time, tremble benea th him,

but he could discover no traces of fresh lava.

The engineer became more assured of this when he observed all the northern part of Mount Franklin. Pillars of smoke and flame escaped from

the crater; a hail of scoriae fell on the ground; but no current of lava

burst from the mouth of the volcano, which proved that the volcanic matter

had not yet attained the level of the superior orifice of the centra l shaft.

"But I would prefer that it were so," said Cyrus Harding to himself.

any rate, I should then know that the lava had followed its accustom ed

track. who can say that it may not take a new course? But the danger does

not consist in that! Captain Nemo foresaw it clearly! No, the danger does

not lie there!"

Cyrus Harding advanced towards the enormous causeway whose prolongat

enclosed the narrow Shark Gulf. He could now sufficiently examine on this

side the ancient channels of the lava. There was no doubt in his min d that

the most recent eruption had occurred at a far-distant epoch.

He then returned by the same way, listening attentively to the subterranean mutterings which rolled like long-continued thunder, interrupted by deafening explosions. At nine in the morning he reach ed the corral.

Ayrton awaited him.

"The animals are cared for, Captain Harding," said Ayrton.

"Good, Ayrton."

"They seem uneasy, Captain Harding."

"Yes, instinct speaks through them, and instinct is never deceived."

"Are you ready?"

"Take a lamp, Ayrton," answered the engineer; "we will start at once ."

Ayrton did as desired. The onagers, unharnessed, roamed in the corra

The gate was secured on the outside, and Cyrus Harding, preceding Ayrton,

took the narrow path which led westward to the shore.

The soil they walked upon was choked with the pulverized matter fall en

from the cloud. No quadruped appeared in the woods. Even the birds h ad

fled. Sometimes a passing breeze raised the covering of ashes, and the two

colonists, enveloped in a whirlwind of dust, lost sight of each othe r. They

were then careful to cover their eyes and mouths with handkerchiefs, for

they ran the risk of being blinded and suffocated.

It was impossible for Cyrus Harding and Ayrton, with these impedimen ts,

to make rapid progress. Moreover, the atmosphere was close, as if the

oxygen had been partly burned up, and had become unfit for respirati on. At

every hundred paces they were obliged to stop to take breath. It was

therefore past ten o'clock when the engineer and his companion reach ed the

crest of the enormous mass of rocks of basalt and porphyry which composed

the northwest coast of the island.

Ayrton and Cyrus Harding commenced the descent of this abrupt declivity,

following almost step for step the difficult path which, during that stormy

night, had led them to Dakkar Grotto. In open day the descent was less

perilous, and, besides, the bed of ashes which covered the polished surface

of the rock enabled them to make their footing more secure.

The ridge at the end of the shore, about forty feet in height, was soon

reached. Cyrus Harding recollected that this elevation gradually sloped

towards the level of the sea. Although the tide was at present low, no

beach could he seen, and the waves, thickened by the volcanic dust, beat

upon the basaltic rocks.

Cyrus Harding and Ayrton found without difficulty the entrance to Dakkar

Grotto, and paused for a moment at the last rock before it.

"The iron boat should be there," said the engineer.

"It is here, Captain Harding," replied Ayrton, drawing towards him the

fragile craft, which was protected by the arch of the vault.

"On board, Ayrton!"

The two colonists stepped into the boat. A slight undulation of the waves

carried it farther under the low arch of the crypt, and there Ayrton , with

the aid of flint and steel, lighted the lamp. He then took the oars, and

the lamp having been placed in the bow of the boat, so that its rays fell

before them, Cyrus Harding took the helm and steered through the sha des of $% \left\{ 1,2,\ldots ,n\right\}$

the grotto.

ortal

The "Nautilus" was there no longer to illuminate the cavern with its electric light. Possibly it might not yet be extinguished, but no ray escaped from the depths of the abyss in which reposed all that was m

of Captain Nemo.

The light afforded by the lamp, although feeble, nevertheless enable d the

engineer to advance slowly, following the wall of the cavern. A deat hlike

silence reigned under the vaulted roof, or at least in the anterior portion, for soon Cyrus Harding distinctly heard the rumbling which proceeded from the bowels of the mountain.

"That comes from the volcano," he said.

Besides these sounds, the presence of chemical combinations was soon

betrayed by their powerful odor, and the engineer and his companion were

almost suffocated by sulphurous vapors.

"This is what Captain Nemo feared," murmured Cyrus Harding, changing countenance. "We must go to the end, notwithstanding."

"Forward!" replied Ayrton, bending to his oars and directing the boa t towards the head of the cavern.

Twenty-five minutes after entering the mouth of the grotto the boat reached the extreme end.

Cyrus Harding then, standing up, cast the light of the lamp upon the walls of the cavern which separated it from the central shaft of the

volcano. What was the thickness of this wall? It might be ten feet or a

hundred feet--it was impossible to say. But the subterranean sounds were too

perceptible to allow of the supposition that it was of any great thickness.

The engineer, after having explored the wall at a certain height horizontally, fastened the lamp to the end of an oar, and again surveyed

the basaltic wall at a greater elevation.

There, through scarcely visible clefts and joinings, escaped a punge nt

vapor, which infected the atmosphere of the cavern. The wall was broken by

large cracks, some of which extended to within two or three feet of the

water's edge.

Cyrus Harding thought for a brief space. Then he said in a low voice

"Yes! the captain was right! The danger lies there, and a terrible danger!"

Ayrton said not a word, but, upon a sign from Cyrus Harding, resumed the oars, and half an hour later the engineer and he reached the entrance of Dakkar Grotto.

Chapter 19

The next day, the 8th day of January, after a day and night passed a t the corral, where they left all in order, Cyrus Harding and Ayrton arrived at Granite House.

The engineer immediately called his companions together, and informe d them of the imminent danger which threatened Lincoln Island, and from which no human power could deliver them.

"My friends," he said, and his voice betrayed the depth of his emoti on,

"our island is not among those which will endure while this earth en dures.

It is doomed to more or less speedy destruction, the cause of which it

bears within itself, and from which nothing can save it."

The colonists looked at each other, then at the engineer. They did n ot clearly comprehend him.

"Explain yourself, Cyrus!" said Gideon Spilett.

"I will do so," replied Cyrus Harding, "or rather I will simply afford you the explanation which, during our few minutes of private convers ation,

was given me by Captain Nemo."

"Captain Nemo!" exclaimed the colonists.

"Yes, and it was the last service he desired to render us before his death!"

"The last service!" exclaimed Pencroft, "the last service! You will see

that though he is dead he will render us others yet!"

"But what did the captain say?" inquired the reporter.

"I will tell you, my friends," said the engineer. "Lincoln Island do es

not resemble the other islands of the Pacific, and a fact of which ${\tt C}$ aptain

Nemo has made me cognizant must sooner or later bring about the subversion

of its foundation."

"Nonsense! Lincoln Island, it can't be!" cried Pencroft, who, in spite of

the respect he felt for Cyrus Harding, could not prevent a gesture of

incredulity.

"Listen, Pencroft," resumed the engineer, "I will tell you what Capt ain

Nemo communicated to me, and which I myself confirmed yesterday, during the $\ensuremath{\mathsf{I}}$

exploration of Dakkar Grotto.

"This cavern stretches under the island as far as the volcano, and is only

separated from its central shaft by the wall which terminates it. No \mathbf{w} , this

wall is seamed with fissures and clefts which already allow the sulphurous gases generated in the interior of the volcano to escape.

"Well?" said Pencroft, his brow suddenly contracting.

"Well, then, I saw that these fissures widen under the internal pressure

from within, that the wall of basalt is gradually giving way and that after

a longer or shorter period it will afford a passage to the waters of the

lake which fill the cavern."

"Good!" replied Pencroft, with an attempt at pleasantry. "The sea will

extinguish the volcano, and there will be an end of the matter!"

"Not so!" said Cyrus Harding, "should a day arrive when the sea, rus hing

through the wall of the cavern, penetrates by the central shaft into the

interior of the island to the boiling lava, Lincoln Island will that day be

blown into the air--just as would happen to the island of Sicily wer e the

Mediterranean to precipitate itself into Mount Etna."

The colonists made no answer to these significant words of the engin eer.

They now understood the danger by which they were menaced.

It may be added that Cyrus Harding had in no way exaggerated the dan ger

to be apprehended. Many persons have formed an idea that it would be

possible to extinguish volcanoes, which are almost always situated on the

shores of a sea or lake, by opening a passage for the admission of the

water. But they are not aware that this would be to incur the risk of

blowing up a portion of the globe, like a boiler whose steam is sudd enly

expanded by intense heat. The water, rushing into a cavity whose temperature might be estimated at thousands of degrees, would be converted

into steam with a sudden energy which no enclosure could resist.

It was not therefore doubtful that the island, menaced by a frightful and $\ensuremath{\mathsf{I}}$

approaching convulsion, would endure only so long as the wall of Dak kar

Grotto itself should endure. It was not even a question of months, \boldsymbol{n} or of

weeks, but of days; it might be of hours.

The first sentiment which the colonists felt was that of profound so rrow.

They thought not so much of the peril which menaced themselves personally,

but of the destruction of the island which had sheltered them, which they

had cultivated, which they loved so well, and had hoped to render so

flourishing. So much effort ineffectually expended, so much labor lo st.

Pencroft could not prevent a large tear from rolling down his cheek, nor

did he attempt to conceal it.

Some further conversation now took place. The chances yet in favor of the

colonists were discussed; but finally it was agreed that there was n ot an

hour to be lost, that the building and fitting of the vessel should be

pushed forward with their utmost energy, and that this was the sole chance

of safety for the inhabitants of Lincoln Island.

All hands, therefore, set to work on the vessel. What could it avail to

sow, to reap, to hunt, to increase the stores of Granite House? The contents of the storehouse and outbuildings contained more than sufficient

to provide the ship for a voyage, however long might be its duration

. But

it was imperative that the ship should be ready to receive them before the

inevitable catastrophe should arrive.

Their labors were now carried on with feverish ardor. By the 23rd of

January the vessel was half-decked over. Up to this time no change had

taken place on the summit of the volcano. Vapor and smoke mingled with

flames and incandescent stones were thrown up from the crater. But during

the night of the 23rd, in consequence of the lava attaining the leve l of

the first stratum of the volcano, the hat-shaped cone which formed o ver the

latter disappeared. A frightful sound was heard. The colonists at first

thought the island was rent asunder, and rushed out of Granite House

This occurred about two o'clock in the morning.

The sky appeared on fire. The superior cone, a mass of rock a thousand

feet in height, and weighing thousands of millions of pounds, had be en

thrown down upon the island, making it tremble to its foundation.

Fortunately, this cone inclined to the north, and had fallen upon the plain

of sand and tufa stretching between the volcano and the sea. The aperture

of the crater being thus enlarged projected towards the sky a glare so

intense that by the simple effect of reflection the atmosphere appeared

red-hot. At the same time a torrent of lava, bursting from the new s ummit,

poured out in long cascades, like water escaping from a vase too ful 1, and

a thousand tongues of fire crept over the sides of the volcano.

"The corral! the corral!" exclaimed Ayrton.

It was, in fact, towards the corral that the lava was rushing as the new

crater faced the east, and consequently the fertile portions of the island,

the springs of Red Creek and Jacamar Wood, were menaced with instant

destruction.

At Ayrton's cry the colonists rushed to the onagers' stables. The cart

was at once harnessed. All were possessed by the same thought -- to ha

sten to

the corral and set at liberty the animals it enclosed.

Before three in the morning they arrived at the corral. The cries of the

terrified musmons and goats indicated the alarm which possessed them

Already a torrent of burning matter and liquefied minerals fell from the

side of the mountain upon the meadows as far as the side of the palisade.

The gate was burst open by Ayrton, and the animals, bewildered with terror,

fled in all directions.

An hour afterwards the boiling lava filled the corral, converting in to

vapor the water of the little rivulet which ran through it, burning up the

house like dry grass, and leaving not even a post of the palisade to mark

the spot where the corral once stood.

To contend against this disaster would have been folly--nay, madness . In

presence of Nature's grand convulsions man is powerless.

It was now daylight -- the 24th of January. Cyrus Harding and his companions, before returning to Granite House, desired to ascertain the

probable direction this inundation of lava was about to take. The so

sloped gradually from Mount Franklin to the east coast, and it was to be

feared that, in spite of the thick Jacamar Wood, the torrent would reach

the plateau of Prospect Heights.

"The lake will cover us," said Gideon Spilett.

"I hope so!" was Cyrus Harding's only reply.

The colonists were desirous of reaching the plain upon which the superior

cone of Mount Franklin had fallen, but the lava arrested their progress. It

had followed, on one side, the valley of Red Creek, and on the other that

of Falls River, evaporating those watercourses in its passage. There was no

possibility of crossing the torrent of lava; on the contrary, the colonists

were obliged to retreat before it. The volcano, without its crown, w as no

longer recognizable, terminated as it was by a sort of flat table which

replaced the ancient crater. From two openings in its southern and e astern

sides an unceasing flow of lava poured forth, thus forming two distinct

streams. Above the new crater a cloud of smoke and ashes, mingled with

those of the atmosphere, massed over the island. Loud peals of thund er

broke, and could scarcely be distinguished from the rumblings of the

mountain, whose mouth vomited forth ignited rocks, which, hurled to more

than a thousand feet, burst in the air like shells. Flashes of light ning

rivaled in intensity the volcano's eruption.

Towards seven in the morning the position was no longer tenable by the

colonists, who accordingly took shelter in the borders of Jacamar Wo od. Not

only did the projectiles begin to rain around them, but the lava, overflowing the bed of Red Creek, threatened to cut off the road to the

corral. The nearest rows of trees caught fire, and their sap, sudden ly

transformed into vapor, caused them to explode with loud reports, while

others, less moist, remained unhurt in the midst of the inundation.

The colonists had again taken the road to the corral. They proceeded but

slowly, frequently looking back; but, in consequence of the inclinat ion of

the soil, the lava gained rapidly in the east, and as its lower wave s

became solidified others, at boiling heat, covered them immediately.

Meanwhile, the principal stream of Red Creek Valley became more and more

menacing. All this portion of the forest was on fare, and enormous w reaths

of smoke rolled over the trees, whore trunks were already consumed by the $\Breve{\gamma}$

lava.

The colonists halted near the lake, about half a mile from the mouth of

Red Creek. A question of life or death was now to be decided.

Cyrus Harding, accustomed to the consideration of important crises, and

aware that he was addressing men capable of hearing the truth, whate ver it

might be, then said, --

"Either the lake will arrest the progress of the lava, and a part of the

island will be preserved from utter destruction, or the stream will overrun

the forests of the Far West, and not a tree or plant will remain on the

surface of the soil. We shall have no prospect but that of starvation upon

these barren rocks--a death which will probably be anticipated by the

explosion of the island."

"In that case," replied Pencroft, folding his arms and stamping his foot,

"what's the use of working any longer on the vessel?"

"Pencroft," answered Cyrus Harding, "we must do our duty to the last!"

At this instant the river of lava, after having broken a passage through

the noble trees it devoured in its course, reached the borders of the lake.

At this point there was an elevation of the soil which, had it been greater, might have sufficed to arrest the torrent.

"To work!" cried Cyrus Harding.

The engineer's thought was at once understood. it might be possible to

dam, as it were, the torrent, and thus compel it to pour itself into
 the
lake.

The colonists hastened to the dockyard. They returned with shovels, picks, axes, and by means of banking the earth with the aid of falle n trees

they succeeded in a few hours in raising an embankment three feet high and

some hundreds of paces in length. It seemed to them, when they had finished, as if they had scarcely been working more than a few minut es.

It was not a moment too soon. The liquefied substances soon after reached

the bottom of the barrier. The stream of lava swelled like a river a bout to

overflow its banks, and threatened to demolish the sole obstacle which

could prevent it from overrunning the whole Far West. But the dam he

firm, and after a moment of terrible suspense the torrent precipitat ed

itself into Grant Lake from a height of twenty feet.

The colonists, without moving or uttering a word, breathlessly regar

ded

this strife of the two elements.

What a spectacle was this conflict between water and fire! What pen could

describe the marvelous horror of this scene--what pencil could depic t it?

The water hissed as it evaporated by contact with the boiling lava. The

vapor whirled in the air to an immeasurable height, as if the valves of an

immense boiler had been suddenly opened. But, however considerable might be

the volume of water contained in the lake, it must eventually be absorbed,

because it was not replenished, while the stream of lava, fed from a ${\bf n}$

inexhaustible source, rolled on without ceasing new waves of incande scent

matter.

The first waves of lava which fell in the lake immediately solidifie d and

accumulated so as speedily to emerge from it. Upon their surface fel l other

waves, which in their turn became stone, but a step nearer the center of

the lake. In this manner was formed a pier which threatened to gradu ally

fill up the lake, which could not overflow, the water displaced by the lava

being evaporated. The hissing of the water rent the air with a deafe ning

sound, and the vapor, blown by the wind, fell in rain upon the sea.

pier became longer and longer, and the blocks of lava piled themselv es one

on another. Where formerly stretched the calm waters of the lake now

appeared an enormous mass of smoking rocks, as if an upheaving of the soil

had formed immense shoals. Imagine the waters of the lake aroused by

hurricane, then suddenly solidified by an intense frost, and some conception may be formed of the aspect of the lake three hours alter the

eruption of this irresistible torrent of lava.

This time water would be vanquished by fire.

Nevertheless it was a fortunate circumstance for the colonists that the

effusion of lava should have been in the direction of Lake Grant. They had

before them some days' respite. The plateau of Prospect Heights, Gra nite

House, and the dockyard were for the moment preserved. And these few days

it was necessary to employ in planking and carefully calking the vessel,

and launching her. The colonists would then take refuge on board the

vessel, content to rig her after she should be afloat on the waters. With

the danger of an explosion which threatened to destroy the island there

could be no security on shore. The walls of Granite House, once so sure a

retreat, might at any moment fall in upon them.

During the six following days, from the 25th to the 30th of January, the

colonists accomplished as much of the construction of their vessel as

twenty men could have done. They hardly allowed themselves a moment's

repose, and the glare of the flames which shot from the crater enabl ed them

to work night and day. The flow of lava continued, but perhaps less abundantly. This was fortunate, for Lake Grant was almost entirely c hoked

up, and if more lava should accumulate it would inevitably spread over the

plateau of Prospect Heights, and thence upon the beach.

But if the island was thus partially protected on this side, it was not

so with the western part.

In fact, the second stream of lava, which had followed the valley of

Falls River, a valley of great extent, the land on both sides of the creek

being flat, met with no obstacle. The burning liquid had then spread

through the forest of the Far West. At this period of the year, when the

trees were dried up by a tropical heat, the forest caught fire instantaneously, in such a manner that the conflagration extended it self

both by the trunks of the trees and by their higher branches, whose interlacement favored its progress. It even appeared that the curren t of

flame spread more rapidly among the summits of the trees than the cu rrent

of lava at their bases.

Thus it happened that the wild animals, jaguars, wild boars, capybar as,

koalas, and game of every kind, mad with terror, had fled to the ban ks of

the Mercy and to the Tadorn Marsh, beyond the road to Port Balloon.

But the

colonists were too much occupied with their task to pay any attention to

even the most formidable of these animals. They had abandoned Granit e

House, and would not even take shelter at the Chimneys, but encamped under

a tent, near the mouth of the Mercy.

Each day Cyrus Harding and Gideon Spilett ascended the plateau of Prospect Heights. Sometimes Herbert accompanied them, but never Pencroft,

who could not bear to look upon the prospect of the island now so ut terly

devastated.

It was, in truth, a heart-rending spectacle. All the wooded part of the

island was now completely bare. One single clump of green trees rais ed

their heads at the extremity of Serpentine Peninsula. Here and there were a

few grotesque blackened and branchless stumps. The side of the devas tated

forest was even more barren than Tadorn Marsh. The eruption of lava had

been complete. Where formerly sprang up that charming verdure, the soil was

now nothing but a savage mass of volcanic tufa. In the valleys of the Falls

and Mercy rivers no drop of water now flowed towards the sea, and should

Lake Grant be entirely dried up, the colonists would have no means of

quenching their thirst. But, fortunately the lava had spared the sou thern

corner of the lake, containing all that remained of the drinking wat er of

the island. Towards the northwest stood out the rugged and well-defined

outlines of the sides of the volcano, like a gigantic claw hovering over

the island. What a sad and fearful sight, and how painful to the colonists,

who, from a fertile domain covered with forests, irrigated by waterc ourses,

and enriched by the produce of their toils, found themselves, as it were,

transported to a desolate rock, upon which, but for their reserves of

provisions, they could not even gather the means of subsistence!

"It is enough to break one's heart!" said Gideon Spilett, one day.

"Yes, Spilett," answered the engineer. "May God grant us the time to

complete this vessel, now our sole refuge!"

"Do not you think, Cyrus, that the violence of the eruption has some what

lessened? The volcano still vomits forth lava, but somewhat less abundantly, if I mistake not."

"It matters little," answered Cyrus Harding. "The fire is still burn ing

in the interior of the mountain, and the sea may break in at any moment. We

are in the condition of passengers whose ship is devoured by a conflagration which they cannot extinguish, and who know that sooner or

later the flames must reach the powder-magazine. To work, Spilett, to work,

and let us not lose an hour!"

During eight days more, that is to say until the 7th of February, the

lava continued to flow, but the eruption was confined within the pre vious

limits. Cyrus Harding feared above all lest the liquefied matter should

overflow the shore, for in that event the dockyard could not escape.

Moreover, about this time the colonists felt in the frame of the isl and

vibrations which alarmed them to the highest degree.

It was the 20th of February. Yet another month must elapse before the

vessel would be ready for sea. Would the island hold together till then?

The intention of Pencroft and Cyrus Harding was to launch the vessel as

soon as the hull should be complete. The deck, the upperworks, the interior

woodwork and the rigging might be finished afterwards, but the essential

point was that the colonists should have an assured refuge away from the

island. Perhaps it might be even better to conduct the vessel to Por t

Balloon, that is to say, as far as possible from the center of erupt ion,

for at the mouth of the Mercy, between the islet and the wall of gra nite,

it would run the risk of being crushed in the event of any convulsio ${\tt n.}$ All

the exertions of the voyagers were therefore concentrated upon the completion of the hull.

Thus the 3rd of March arrived, and they might calculate upon launching

the vessel in ten days.

Hope revived in the hearts of the colonists, who had, in this fourth year

of their sojourn on Lincoln island, suffered so many trials. Even Pencroft

lost in some measure the somber taciturnity occasioned by the devast ation

and ruin of his domain. His hopes, it is true, were concentrated upon his vessel.

"We shall finish it," he said to the engineer, "we shall finish it, captain, and it is time, for the season is advancing and the equinox will

soon be here. Well, if necessary, we must put in to Tabor island to spend

the winter. But think of Tabor island after Lincoln Island. Ah, how unfortunate! Who could have believed it possible?"

"Let us get on," was the engineer's invariable reply.

And they worked away without losing a moment.

"Master," asked Neb, a few days later, "do you think all this could have

happened if Captain Nemo had been still alive?"

"Certainly, Neb," answered Cyrus Harding.

"I, for one, don't believe it!" whispered Pencroft to Neb.

"Nor I!" answered Neb seriously.

During the first week of March appearances again became menacing. Thousands of threads like glass, formed of fluid lava, fell like rain upon

the island. The crater was again boiling with lava which overflowed the

back of the volcano. The torrent flowed along the surface of the har dened

tufa, and destroyed the few meager skeletons of trees which had with stood

the first eruption. The stream, flowing this time towards the southwest

shore of Lake Grant, stretched beyond Creek Glycerine, and invaded the

plateau of Prospect Heights. This last blow to the work of the colon ists

was terrible. The mill, the buildings of the inner court, the stable s, were

all destroyed. The affrighted poultry fled in all directions. Top and Jup

showed signs of the greatest alarm, as if their instinct warned them of an

impending catastrophe. A large number of the animals of the island h ad

perished in the first eruption. Those which survived found no refuge but

Tadorn Marsh, save a few to which the plateau of Prospect Heights af forded

asylum. But even this last retreat was now closed to them, and the l ava-

torrent, flowing over the edge of the granite wall, began to pour do wn upon

the beach its cataracts of fire. The sublime horror of this spectacl e

passed all description. During the night it could only be compared to a

Niagara of molten fluid, with its incandescent vapors above and its boiling

masses below.

The colonists were driven to their last entrenchment, and although the

upper seams of the vessel were not yet calked, they decided to launc h her at once.

Pencroft and Ayrton therefore set about the necessary preparations for

the launching, which was to take place the morning of the next day, the 9th of March.

But during the night of the 8th an enormous column of vapor escaping from

the crater rose with frightful explosions to a height of more than three

thousand feet. The wall of Dakkar Grotto had evidently given way und er the

pressure of gases, and the sea, rushing through the central shalt in to the

igneous gulf, was at once converted into vapor. But the crater could not

afford a sufficient outlet for this vapor. An explosion, which might have

been heard at a distance of a hundred miles, shook the air. Fragment s of

mountains fell into the Pacific, and, in a few minutes, the ocean rolled

over the spot where Lincoln island once stood.

Chapter 20

An isolated rock, thirty feet in length, twenty in breadth, scarcely ten

from the water's edge, such was the only solid point which the waves of the

Pacific had not engulfed.

It was all that remained of the structure of Granite House! The wall

had

fallen headlong and been then shattered to fragments, and a few of the

rocks of the large room were piled one above another to form this point.

All around had disappeared in the abyss; the inferior cone of Mount Franklin, rent asunder by the explosion; the lava jaws of Shark Gulf, the

plateau of Prospect Heights, Safety Islet, the granite rocks of Port

Balloon, the basalts of Dakkar Grotto, the long Serpentine Peninsula, so

distant nevertheless from the center of the eruption. All that could now be

seen of Lincoln Island was the narrow rock which now served as a refuge to

the six colonists and their dog Top.

The animals had also perished in the catastrophe; the birds, as well as

those representing the fauna of the island--all either crushed or dr owned,

and the unfortunate Jup himself had, alas! found his death in some c revice

of the soil.

If Cyrus Harding, Gideon Spilett, Herbert, Pencroft, Neb, and Ayrton had

survived, it was because, assembled under their tent, they had been hurled

into the sea at the instant when the fragments of the island rained down on every side.

When they reached the surface they could only perceive, at half a cable's

length, this mass of rocks, towards which they swam and on which the y found footing.

On this barren rock they had now existed for nine days. A few provisions

taken from the magazine of Granite House before the catastrophe, a little

fresh water from the rain which had fallen in a hollow of the rock, was all

that the unfortunate colonists possessed. Their last hope, the vesse 1, had

been shattered to pieces. They had no means of quitting the reef; no fire,

nor any means of obtaining it. It seemed that they must inevitably perish.

This day, the 18th of March, there remained only provisions for two days,

although they limited their consumption to the bare necessaries of l

ife.

All their science and intelligence could avail them nothing in their present position. They were in the hand of God.

Cyrus Harding was calm, Gideon Spilett more nervous, and Pencroft, a prey to sullen anger, walked to and fro on the rock. Herbert did not for

moment quit the engineer's side, as if demanding from him that assis

he had no power to give. Neb and Ayrton were resigned to their fate.

"Ah, what a misfortune! what a misfortune!" often repeated Pencroft.
"If

we had but a walnut-shell to take us to Tabor Island! But we have no thing, nothing!"

"Captain Nemo did right to die," said Neb.

During the five ensuing days Cyrus Harding and his unfortunate companions

husbanded their provisions with the most extreme care, eating only w hat

would prevent them from dying of starvation. Their weakness was extr eme.

Herbert and Neb began to show symptoms of delirium.

Under these circumstances was it possible for them to retain even the

shadow of a hope? No! What was their sole remaining chance? That a v essel

should appear in sight of the rock? But they knew only too well from

experience that no ships ever visited this part of the Pacific. Could they

calculate that, by a truly providential coincidence, the Scotch yach

arrive precisely at this time in search of Ayrton at Tabor Island? It was

scarcely probable; and, besides, supposing she should come there, as the

colonists had not been able to deposit a notice pointing out Ayrton's

change of abode, the commander of the yacht, after having explored T abor

Island without results, would again set sail and return to lower latitudes.

No! no hope of being saved could be retained, and a horrible death, death

from hunger and thirst, awaited them upon this rock.

Already they were stretched on the rock, inanimate, and no longer

conscious of what passed around them. Ayrton alone, by a supreme eff ort.

from time to time raised his head, and cast a despairing glance over the

desert ocean.

But on the morning of the 24th of March Ayrton's arms were extended toward a point in the horizon; he raised himself, at first on his kn ees,

then upright, and his hand seemed to make a signal.

A sail was in sight off the rock. She was evidently not without an object. The reef was the mark for which she was making in a direct line,

under all steam, and the unfortunate colonists might have made her o ut some

hours before if they had had the strength to watch the horizon.

"The 'Duncan'!" murmured Ayrton--and fell back without sign of life.

When Cyrus Harding and his companions recovered consciousness, thank s to the attention lavished upon them, they found themselves in the cabin of a steamer, without being able to comprehend how they had escaped death

A word from Ayrton explained everything.

"The 'Duncan'!" he murmured.

"The 'Duncan'!" exclaimed Cyrus Harding. And raising his hand to Heaven,

he said, "Oh! Almighty God! mercifully hast Thou preserved us!"

It was, in fact, the "Duncan," Lord Glenarvan's yacht, now commanded by

Robert, son of Captain Grant, who had been despatched to Tabor Islan

find Ayrton, and bring him back to his native land alter twelve year s of expiation.

expracron.

The colonists were not only saved, but already on the way to their n ative country.

"Captain Grant," asked Cyrus Harding, "who can have suggested to you the

idea, after having left Tabor Island, where you did not find Ayrton, of

coming a hundred miles farther northeast?"

"Captain Harding," replied Robert Grant, "it was in order to find, n ot

only Ayrton, but yourself and your companions."

"My companions and myself?"

"Doubtless, at Lincoln Island."

"At Lincoln Island!" exclaimed in a breath Gideon Spilett, Herbert, Neb,

and Pencroft, in the highest degree astonished.

"How could you be aware of the existence of Lincoln Island?" inquire d Cyrus Harding, "it is not even named in the charts."

"I knew of it from a document left by you on Tabor Island," answered Robert Grant.

"A document!" cried Gideon Spilett.

"Without doubt, and here it is," answered Robert Grant, producing a paper

which indicated the longitude and latitude of Lincoln Island, "the present

residence of Ayrton and five American colonists."

"It is Captain Nemo!" cried Cyrus Harding, after having read the not ice,

and recognized that the handwriting was similar to that of the paper found

at the corral.

"Ah!" said Pencroft, "it was then he who took our 'Bonadventure' and hazarded himself alone to go to Tabor Island!"

"In order to leave this notice," added Herbert.

"I was then right in saying," exclaimed the sailor, "that even after his death the captain would render us a last service."

"My friends," said Cyrus Harding, in a voice of the profoundest emot ion,

"may the God of mercy have had pity on the soul of Captain Nemo, our

benefactor."

The colonists uncovered themselves at these last words of Cyrus Harding,

and murmured the name of Captain Nemo.

Then Ayrton, approaching the engineer, said simply, "Where should this coffer be deposited?"

It was the coffer which Ayrton had saved at the risk of his life, at the

very instant that the island had been engulfed, and which he now faithfully

handed to the engineer.

"Ayrton! Ayrton!" said Cyrus Harding, deeply touched. Then, addressing

Robert Grant, "Sir," he added, "you left behind you a criminal; you find in

his place a man who has become honest by penitence, and whose hand I am

proud to clasp in mine."

Robert Grant was now made acquainted with the strange history of Captain

Nemo and the colonists of Lincoln Island. Then, observation being taken of

what remained of this shoal, which must henceforward figure on the charts

of the Pacific, the order was given to make all sail.

A few weeks afterwards the colonists landed in America, and found their

country once more at peace alter the terrible conflict in which right and

justice had triumphed.

Of the treasures contained in the coffer left by Captain Nemo to the

colonists of Lincoln Island, the larger portion was employed in the purchase of a vast territory in the State of Iowa. One pearl alone, the

finest, was reserved from the treasure and sent to Lady Glenarvan in the

name of the castaways restored to their country by the "Duncan."

There, upon this domain, the colonists invited to labor, that is to say,

to wealth and happiness, all those to whom they had hoped to offer the

hospitality of Lincoln Island. There was founded a vast colony to which

they gave the name of that island sunk beneath the waters of the Pac ific. $\mbox{\ensuremath{\mathsf{A}}}$

river there was called the Mercy, a mountain took the name of Mount Franklin, a small lake was named Lake Grant, and the forests became the

forests of the Far West. It might have been an island on terra firma

There, under the intelligent hands of the engineer and his companion s,

everything prospered. Not one of the former colonists of Lincoln Isl and was

absent, for they had sworn to live always together. Neb was with his

master; Ayrton was there ready to sacrifice himself for all; Pencrof t was

more a farmer than he had ever been a sailor; Herbert, who completed his

studies under the superintendence of Cyrus Harding, and Gideon Spile tt, who

founded the New Lincoln Herald, the best-informed journal in the world.

There Cyrus Harding and his companions received at intervals visits from

Lord and Lady Glenarvan, Captain John Mangles and his wife, the sist er of

Robert Grant, Robert Grant himself, Major McNab, and all those who had

taken part in the history both of Captain Grant and Captain Nemo.

There, to conclude, all were happy, united in the present as they had

been in the past; but never could they forget that island upon which they

had arrived poor and friendless, that island which, during four year s had

supplied all their wants, and of which there remained but a fragment of

granite washed by the waves of the Pacific, the tomb of him who had borne

the name of Captain Nemo.

http://www.ebooksread.com/authors-eng/jules-verne.shtml