Field Diary X, 9 September 1867 - 2 January 1868

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[0001]

X

[0002]

[Annotated insert from the Stirling University Conservation Project from 1986.]

[0003]

In this book the "rough notes" correspond, apparently, more closely with the Journal than the earlier entries
The reason probably was that Livingstone was unwell generally & contented himself with brief notes & did not later amend them as previously

This book contains detail of the famous interviews with the old barbarian Casembe

[0004]

[0005]

[0006]

X. 9^{th} September 1867

Hara district
Insama's country
Went 3 hours west
to Insama's village
He & his people are very
much afraid of fire
arms - We sent a
message & recieved

an invitation to come Crowds followed and surrounded us & over the people the headmen had no power - They looked suspiciously to see if I had arms about my person - thought my notebook was

[0007]

a pistol - the new village is immediately to the North of that which was burned by Tipo Tipo It is very large but many of the people have fled from it from fear of the Malonguana or traders - When we got to Nsama we saw a very old man with a very large belly gave him a cloth & he asked to feel my hair & clothes - told him that Hamees had been anxious to make peace and it was not right to keep him at a distance but he replied that he would send for [...] to speak but

[0008]

as it was impossible
to converse with such
crowds around us
His people have small
well chiselled features
some are really handsome
but they file their teeth
to such sharp points as
greatly to disfigure them
The only difference
between them & Europeans
is the olive or warm
brown colour & the skin
[-] alae nasi spread out

little - the fashion of the hair is a bunch of about ten rows of knobs behind and the forehead shaved up to the crown -

[0009]

The Ujiji people came and said that they could get no ivory & would return home -They are 50 in number 30 here & 20 with thedhow - The people who brought my goods to Ujiji carried also the dried meat of three buffaloes which had died in the way - Three remained in charge of the goods the rest returned to Zanzibar They say that the Lake T. ends 5 days beyond Ujiji & no river goes out of it or from Lake Moero - Plenty of Arabs at Moero Here Arabs are in disfavour & are not

allowed to go to the chiefs house or even into his inner stockade - Insama said he would give

[0010]

people to shew the way to Moero -

Insama sent a great
big basket of meal
& calabash of beer
We came back
today 10th Sept^r 1867 to
Hara - I send [^] [to Ujiji] a box
containing papers
books - a hammock
a coat & cap - ball
cartridges - coffee

mill - Hamidi paid the man who has the chief part of the dhow

[0011]

2 dhoti = 16 cubits It will take 10 days to go to Ujiji - they anchor cook & sleep ashore - saw 4 Antelopes like Lechwees

Habez is the headman who took the box to Ujiji

 14^{th} Sep^r 1867

Ill with fever or some allied affection "urina urinans" headache - distress causing groaning when I was insensible better yesterday

[0012]

[Map of area around Lake Moero showing distances through time between locations including Hara, Nsama, Moikolankawe, Kamosenga, RRiverMoambezi, RRiver Chisera, Moangwe Karungu]

[0013]

14th Ju[Se]ptember -An Eccpse last night too weak to observe it -

Hamees says that he has no confidence in Insama because he promised him a daughter to wife & she has not come. He told him also to stay here & he would send ivory for sale but sent none
No people come
here with provisions
but all hold aloof
so Hamees will
retire to Chitimba's
to gaurd his property
there - and will

[0014]send on Syde & Hamidi and his own men to Lopére Moero & Buire to buy ivory & I had better go with them than trust in Insama's guidance - Hamidi thinks this is the plan to be preferred We go with the traders stop a day or two with a subject of Insama & pass Insama's country altogether - His people have got a shock in their ideas as to the comparative value of bows & arrows & firearms

[0015]

They are clever looking & intelligent & will no doubt act on the experience so dearly bought The Arabs say that they lost 50 men Insama must have lost as many one old man with a fine [Profile drawing of a man's head.] face & large beard on the chin came to look at us - all have a patch shaven in the front of the head up to the crown - the hair in a bunch of

knots behind is becoming

[0016]

14th September continued

A daughter of Nsama came this afternoon to be a wife to Hamees by way of cementing the peace - she came riding picaback on a man's shoulders - a nice modest looking young woman her hair rubbed over with Nkhola a red pigment from the camwood - she was accompanied with about a dozen young and old attendants each carrying some cassava groundnuts & other provisions - the Arabs all dressed in fi[...]-[n]ery & fantastic appendages fired guns - flourished swords & yelled - When she came to Hamees'

[0017]

hut she descended & with her attendants went into the hut - She has small neat features and so had all her attendants - I had been asking Hamees about the path from Bagamoio and now rose up & went away - the noise was enough to confuse anyone much more a stranger

 15^{th} Septr 1867

Hamees went off early this morning with his new wife to her father but was met by two men who said to him that he must remain here - this throws us back

[0018] for we send for all the people now out

& go West without Insama's leave

16th Sept^r 1867 We expect the people in tomorrow and will go on the day following - it is getting very hot now a few drops of rain fell about 3 PM today

[17th] Hamidi went to Insama's yesterday and was told to come in if without gun or sword but he would not go on these conditions - Insama

[0019]

said that he would send people to take us on today - if they come we shall go tomorrow - Two men came from Moamba's to Hamidi to say that he had three tusks - a large party of Arabs is at Morere's

We have come 49' say 50 miles from Chitimbas along the slope from the great watershed - In going to Insama's we descend a great step

on this slope & his village lies in a huge valley drained by the Moambeze with the

[0020]

Moero Lake - a long range of hills of denudation stretch along from Lofu E. far to the west between this valley & the Lake while the step mention -ed runs west as far as we can see

Suleiman making slave sticks or gorees for slaves - for lack of ivory

 $18^{\underline{\mathrm{th}}}$ Sept<u>r</u> 1867

Hamees off to Nsama again - did not tell us, he is ashamed of his father in law. Spent chief part of the day with Syde

19th Sept^r Those who despair of ivory now invest in

[0021]

slaves & the people of Nsama sell them for beads - Hamees was admitted to Nsama's presence & men are to be sent for us today

 $20^{\underline{\text{th}}}$ I had resolved to go to Insama's this morning but Hamees sent to say the men had come and we are all to go with them on $22^{\underline{\text{d}}}$ so I must have patience again for two days

21st Several buffaloes have been killed - they seem to be abundant in the country - Hamees' guide & wife ran away - believing that the Arabs

[0022]

were going to fight Hamees went to N--sama & got other guides so to secure them we set off at once -

22^d Sept^r 1867 & travelled two hours
North then descended into the valley of
Insama & crossed it in an hour - 3 hours
We descended the same step as at Insama dark red sandstone covered with trees
The plain is swampy at times - paths difficult as feet have made them uneven -

The next reach is said to be without water so we remain till 12

[0023]

or one oclock tomorrow the $23^{\underline{d}}$ Sept^r One [^] [wo]man sick $\underline{\&}$ it being very hot we remain - mosquitoes here - the first we have had for a long time -

A fire broke out at[in]
Hamees establishment
at Hara through the
night & got completely
the upper hand burning
all his beads, powder
guns - except one bale of
cloth - news came
this morning & prayers
were offered for him

with incense - some goods will be sent as well - They seem to be religious in their way The prayer book was held over the incense - and all joined in a sort of response while this was done to "Harasji"

 $[0024] \\ 24^{\underline{th}} \; Sept^{\underline{r}} \; 1867$

We were roused at 3 AM but after all was ready told that we should go at 2 PM as the road was difficult & water far - We should not reach it but be oppressed with the midday heat - We now sleep in the field & get to water tomorrow Hamidi's wife was ill yesterday & stopped us

When the Arabs & Kasonso's people were punishing Insama the people of the latter fled into this plain which was then so deep with water they could not follow them - Fish spread over all these

[0025]

wet plains in the rainy season - We marched 4 hours mainly North - After first hour descended from a height then had a wall of Rocks 1000 feet high on our left - after flanking it for while climbed up and went along N. on heights then slept without water Chuma stole some of

my water then came & begged more when it was done - another did the same - some are slaves in spite of all that was done

[0026]

by feeding clothing & educating at Nassick The loads are less than half [^] [those] carried by slaves yet they always grumble & skulk 4 hours in all

25th Sept^r 1867

Started at 5 - 30 and came along through the same well grown forest we have been travelling through - came to a village stockaded & all the people outside with gates shut - afraid of the Arabs - then descended some 1000 feet into an immense plain with apparently a river some ten miles off

[0027]

Gardner lay down & howled as if he had too heavy a load to excite the compassion of the Arabs - Chuma too because he had a sore eye - pretended that he could not walk - a little boy ran with his load

26th Off at 6 AM Went 2½ hours North to the large river seen in the evening - It is a mile wide & full of

papyrus plants - very difficult to ford as we often plunged into holes up to the waist Roots of Papyrus very sore on the feet -

[0028]

1½ hours to cross it then one hour N.E. 5 hours in all -Chisera R. is that we crossed - It winds away to the West - many elephants & other animals on its banks four elephants have been killed - also several buffaloes & zebras The banks slope down $\frac{1}{4}$ a mile & South are the ranges of hills we crossed in coming country near river without many trees People abundant & friendly -

[0029]

27th Sep[±] 1867 We remain to take out the ivory from the dead beasts sky clouded over prevents latitude being taken - one tusk weighed 85 lbs the other nearly as much

28th people cutting up & drying the zebra & other meat - clouds prevent observations R Chisera goes into Moero - rises in Lopere - more to the West it becomes free of Papyrus & requires canoes

to cross it

[0030]

Two hours North brought us to the Kamosenga about [eight] [to] four yards wide & running strongly among Papyrus & aquatic plants East into the Chisera - many buffaloes elephants & geese on its banks - country flat & covered with thick bush - cassias & another tree in flower perfume the air

Then two hours more round a bend westwards & North = 4 hours in all chiefly North

[0031]

30 Sept<u>r</u> 1867

We marched 2 hours
N.W. then 2 N N West
then [^] [after] one N.E
crossing the Kamosenga
view a small stream
near hills and men
reached Karungu's
vil - this stream
divides Itawa from
Lopere - the Lopere
[C7] begins on its Northern
bank here = 5 hours

 $1^{st} - Oct^{r} - 1867$

Karungu very much afraid of the Arabs keeps all out of his stockade - and has little ivory to sell

[0032]

 $2^{\underline{d}} Oct^{\underline{r}} 1867$

Ill all day - from drinking too much water after the march It was excessively hot and five hours was as much as we could bear - The clouds all over every afternoon & thunders in the distance -

$3^{\underline{d}}$ Oct^r

Men have been sent to next chief Mtete & when they return we go - this is necessary as about 450 people inspire fear - Here the people come about us freely now

[0033]

& bring more pro-visions than can be
bought - Men came
bearing huge baskets
of meal slung to poles
to Hamadi
[Drawing of two men carrying pole with basket.]

4^{th} Octr

The Arab travelling is very slow work but in cases like ours it is unavoidable for all are suspicious of them & no ivory will be brought

[0034]

unless confidence is restored - clouded over most of the day and night too - I sat up watching for stars last night - got two but neither have a declination in the Nautical Almanac -

<u>First showers</u> of this season yesterday evening & this morning - Here at Karungu's village - afternoon also -

The five people sent to Mtema were ill recieved, and an attempt to kill them attempted [made] when the natives saw the guns

[0035] they desisted but wished no Arabs to come - they said "where did Tipo Tipo place ivory in our country that he

comes seeking it"

Other men are expected to come from Chikongo tomorrow - if he is more favour able we shall go there - if not go by force where we wish - It is fear that prompts the hostile actions

[0036] 6^{th} Oct^r 1867

& words of these unvisited natives

thundering in distance all day a little rain during the night service with Litany $7^{\underline{\text{th}}}$ ill all day & night - am always so if not working

8th Oct^r two men came last night from Chikongo bringing a tusk & saying that is the only ivory I have - and the Arabs are not to come as we shall run away The defeat of Insama has struck terror into all their hearts for he was the great

[0037]

conqueror of all Men are to be sent
tomorrow to invite
Chikongo to send any
ivory he has here &
then let us pass through
his country not going
near his village I wished to go on to
Moero but all declare
that our ten guns
would cause a flight

9th Men went off to Chikongo this morning - Syde presented a goat

 $10^{\underline{\text{th}}}$ Had a long conversation with Syde - He thinks the sun rises & sets &c

[0038]

because the Koran says so & he sees it - He thinks that Jesus told of the coming of Mahomet & that it was not Jesus who suffered on the cross but a substitute.!

 $11^{\underline{\mathrm{th}}}$ Oct 1867 Nothing of any im--portance

 $12^{\underline{\mathrm{th}}}$ Oct^r an elephant killed by Tipo Tipos men

13th Sunday

14th It is always clouded over and often no breath of wind stirring

 $\begin{array}{c} [0039] \\ 15^{\underline{\text{th}}} \text{ Nothing of } \\ \text{importance} \end{array}$

16th a great many of the women in the district (Lopére) are afflicted with goitre -

An Arab died yester day & was buried in the evening - no women allowed to come near - - A silent prayer uttered over the corpse & then a covering held over the ground while the body was deposited [Drawing of burial pit.]

 $[0040] \\ 17^{\underline{th}} \ Oct^{\underline{r}} \ 1867$

18th The men sent to Insama begging him to use his influence with Chikonga to allow us to pass returned last night - Insama says that if Chikongo thinks himself strong enought to resist he can do so - He has nothing to do with

him - Insama dances to his wives drum He is in his dotage evidently

 $19\underline{^{\mathrm{th}}}$ Octr

one man returned from Chikongo today Reports favourably but the chief wont

[0041]negotiate with slaves An Arab is to be sent today & as soon as he returns we start There is no obstruction some Wanyamwezi had come to Chikongos from West to buy copper wire - He reports many Arabs in the West - some say that Moero is larger than Tanganyika - & that it falls into Lagasawa

20th Because very ill - sore bones & much head--ache - then lost power over the muscles of the [...]

 $[0042] \\ 19^{\underline{\rm th}} \ {\rm continued}$

(The friends of the Arab who died made a feast & sent portions all about - I got a good share)

 $20^{\underline{\mathrm{th}}}$ continued urine in driblets no appetite - great thirst

20[1] Oct 1867 Syde sent his men to bult a new hut in a better spot, I hope this may be a more healthful one for me

[0043]

22^d Oct^r The men came back from Chikongo but with the discouraging news that no ivory was to be had - they go West with me the day after tomorrow to Chisawe who will take my party on to Moero = the Arabs will return thence & we move on

23^d Oct^r to wait another day as Tipo Tipo gave headman here some cloth & recieved a promise of something Karungu "is looking for it"

[0044]

 $24^{\underline{\mathrm{th}}}$ Oct $\underline{\mathrm{r}}$ 1867

If a slave wishes to change his master he goes to another & breaks a spear or a bow before him The transference is irrevocable on the Zambesi & among the Wanyamwezi [...]—[exc]ept by paying the slave's full price to the new master - A

case happened here yesterday

25th Oct^r

Authority was found in the Koran for saying that today was

[0045]unlucky for starting but the fact was our guide hither enticed a young girl slave to run away with him then gave her off to his countrymen to hold for him, but they kept her for themselves & gave information about the other - men are sent after her - but we go tomorrow - Nothing can be more tedious than the Arab way of travelling

26th We went WS W. for nearly five hours - through an undulating well wood country the people numerous

[0046] they keep out of the way - Elephant and buffaloes numerous several trees yield a finely scented woods some gave it out strongly when burned - others when cut - Euphorbias abundant & large - we sleep by a torrent whose pools have been filled with muddy water by the rain [WSW] 4¾

27th Oct^r 1867 Off at 6 - 15 in a fine drizzling rain which continued two hours came on to a plain about 3 miles broad full of large game -Zebras & buffaloes - In

[0047]

the rainy season it
will be swampy We go Westwards
over plains with
ridges of denudation
200 feet above the
valleys of [...] & always
covered with trees
[Drawing of ridged landscape.]

The people are off to get meat - the ridges are generally hardened sand -stone [...]— marked with Madrepores and masses of brown Haematite - very hot and we became very tired - along line of hill on our South pointed to Nsama's 3¾ in all

[0048]

[Map spanning this page and the next, showing locations Karungu, Sanya MtsMountains, Chifupa's vilsvillages, Choma country Choma River.]

[0049]

[Map spanning this page and the previous, showing locations Mosumba, showing locations Nsama, RRiver Luao, Lipande.]

 $[0050] \\ 28 \ Oct^{\underline{r}} \ 1867$

A march of five hours brought us to the villages of [...]—[Chif]upa on the Ch[...]—[oma] but chief & people had

fled leaving us all the houses & everything else sent after men to come & sell us food in vain so they lose all the slaves will take Hours 5 W S $[W^t]$

29th rested all day on banks of the Choma R. which he comes from its

[0051]North & goes S W It is in deep mud banks 20 yards wide and about 2 yards deep - contains plenty of fish - water is now muddy people will not come to sell food so it is not remark able that the Arab slaves help themselves to ground nuts sorghum & millet which abound in the villages - I bought a little mteza at a high price the man evidently not seeing

[0052] that it would be better to sell for a fair price than run off & leave it all to be eaten by the slaves

30th Oct^r 1867 two ugly images were found in huts set apart for them - they represent the people of the country [Drawing of a single figure.]

[0053]

31st Oct 1867 a march of 5½ hours brought us to some villages where the people sold food & behaved in a friendly manner - a herd of buffaloes met us in the way but Syde took my gun from the boy who was carrying it and when the beasts came round close to me I was powerless Hours 5½ The Choma at the

[0054]

 $1^{st} - Nov^{r} - 1867$

ford is 20 yards wide and 9 feet deep

came along among hills thickly covered with trees some in full foliage & some putting forth red leaves - Hills may be 700 or 800 feet above the valleys which at present have little water this is not a district of running rills we crossed three knee deep - buffaloes very numerous The Ratel covers its droppings to secure the scavenger beetles

[0055]

In 6¼ hours we came to a hill side & built our sheds = West

 $^{^{2^{\}rm d}}$ Luao & Lipande Rs

2^d Nov^r 1867
Went West in a valley remarkable for the numbers of a small Euphorbia which we smashed at every step - Hills on each side & especially the right higher - after 3½ hours we came to a strong rivulet the Lipande running S West to Moero then ½ an hour after crossed it

[0056] again now 20 yards wide & knee deep Then we crossed the R Luao about same size & prepared to sleep on its western bank - country very richly wooded &

3<u>d</u> Nov<u>r</u> 1867 -

trees large - Granite hills

A very desultory march of five hours - Hills retire - soil very rich came to two villages but people did not want us so we went on to the Mosumba or chiefs village - (we want a head over all sadly)

[0057]

Muao is this chiefs name Buira

We found a young
man at Muao's who
had fled from Cazembes
His father was left there
a youth & grew up
a heathen [his name is] - Mohamad
[bin Saleh] got into difficulties

& fle[his] son fled hither
He reports that Moero[Luapula]
comes from Mofe
or Mofu is first a
river then expands
into a Lake then
is a river again &
flows into Tangan-yika - this River is
the Luapula

 $[0058] \\ 4^{\underline{\rm th}} \ {\rm Nov}^{\underline{\rm r}} \ 1867$

Syde came early this morning & said that the Rua country is a month distant that but little ivory is found there - none at Cazembe's or here in Buira

Letters had come from Hamees - Chitimba was dead & so was Mambwe - people are fighting for the chieftainship of Chitimba - great hunger prevails now Moriro a chief dis--possessed by Insama of his country wished the Arabs to interfere

[0059]

but they had made
peace & declined This unfavourable
news decided Syde
& Tipo tipo to remain
here only ten days or more
then return - they advise
me to go to Moero &
Cazembe if I like
then return to Phoeto
& wait for Bin Habib
to go to Ujiji with
him

5th Syde & Tipo Tipo

send men to trade at Cazembe's for ivory & then return by way of Moiriri's to Chitimba and there meet all together before going to Zanzibar -

[0060]

We were to start tomorrow but the guides
proved false - they are
Unyinyembe who
helped Mohamad
bin Saleh to fight
with Cazembe - It is
said that after Cazembe
had killed all Mohamad
men he left him to
dwell alone in his
town - the Unyinyembe
fear revenge if they
come into the power
of Cazembe

 $6^{\underline{\text{th}}}$ Nov^r 1867 Very many cases of swelled Thyroid gland appear both in men & women here = Goitre or Derbyshire neck this is only 3350 feet

[0061] above the sea

 $7^{\underline{ ext{th}}}$ Nov - Start for Moero - said to be near convoyed by all the Arabs - We drew near to Kasoma mts & sleep at Kaputas villages having gone four hours nearly South - 4S -

 $8^{\underline{\mathrm{th}}}$ Nov^r 1867 – Off at 6 AM - the villages are very thickly studded

over the valley here and all surrounded with Cassava - one of these belonged to Puta and he was not to

[0062]

From Kalongosi back to Lualaba mouth 5° - to end of Rua mts 303°

[Map that continues to next page showing locations of RuaLubaland country, Kalongosi RRiver, Mabanga, Lualaba RRiver, Tanganyika and also showing distances between locations, calculations and notes including the observation "station about middle of North End of Lake".]

[0063]

[Map that continues from previous page and includes names Kalongosi and Cazembe.]

North bend before Lake enters the Lua--laba - [Calculation of distance based on 3000 double paces each 4.5 feet]

[Calculations dated 8th NovNovember 1867.] [Calculations.]

[0064]

be seen but he sent to say if we slept there & gave him cloth he would send men to conduct us tomorrow & ferry us across His people refused a hut so we came on to the Lake & saw no ferry - In two hours we reached the Lake which seems of goodly size flanked by mountains on the East & West sloping banks of coarse sand people brought monde a fish for sale - It has a flat rough surface instead of teeth - Eats small fish - Has feelers like claws

[0065]

but large eyes & no scales - a spine rises of the back apparently bone - a thick belt of Tropical Forest runs all round the North end - In it villages are planted chiefly fishermen 2[hs]

9th Nov<u>-</u> 1867

came along bank of the Lake S E wards then ascended the hills - a headman refused us admission so we walked on & he sent for us saying that the real headman had just arrived from the place whither he had retired so we went

[0066] It being better to appear friendly than otherwise His name is Chiputa & place Kalekale

Flies abound by reason of the fish caught - the people are Babemba but beyond the Kalongwesi they are all Balunda - [3 = hours]

10th Nov^r Headman gave us a supply of provisions this morning - villages dotted thickly all over the country but the people seem to feel insecure for their gates are shut and they refuse us admittance - a trade

[0067] in salt is carried

on - the salt is the produce of salt springs We pass many of these traders daily & they return our salutation very civily rubbing earth on the arms - they are now putting their gardens in order - We have come along between two ranges of hills one flanking the East shore of the Lake the other about 3' from it - From 700 to 1500 feet above

[0068] the Lake - covered thickly with trees - of Granite loosely adhering & of a tinge of red -

 $11^{\underline{\text{th}}}$ Nov^r 1867 - On a plateau well cultivated & very many villages saw a water hog marched with yesterday 3+4-30=7-30 in all

12 Nov^r After a march of 3 hours we came to two villages and a headman took charge of us to cheat us in crossing the Karungwesi or Kalongosi - about

[0069]
60 yards wide &
deep enough to require
canoes - It rises
in Kumbi in the
North[South] East has a strong
current & plenty of
fish now ascending
to spawn - they

are caught by weirs & hooks - Baskets also are sunk in the rapids full of stones & means for securing fish attached to them [Drawing of baskets sunk in rapids.] when water rises they are standing places (for) [Series of calculations.] people to throw $[\dots]$ —[nets] & $[\dots]$ —[Hooks] $[\dots]$ —[all] cross Kalongosi miles - $14^{th} + 7[h] = miles 41$

[0070]

[Map that continues onto next page with triangular red lines that seem to be converging on a central point, and place names in grey including RuaLubaland MtsMountains, RRiver Lualaba, RRiver Kalongosi. Map also has descriptions of terrain and calculations some of which are in red.]

[0071]

[Map that continues from previous page drawings and calculations of distance to Cazembes townCazembe's town.]

[0072]

13 Nov^r 1867 detained by rain till noon - then went on Southwards Kalongosi went with us some distance then meeting a large flat plain turned to the West = heavy rain stopped us at [1] a village on the edge of the flat mentioned -

Monde Ntondo Sampa

Mota

Bongwe

Lusa

Mabanga

Kasobe

Kise

Molobe

Kuanya

Lopembe

Nkosu

Motoya

Pale

Chipansa

Mosungu Mpifu Litembwa Manda Mpata Mechebere [0073]Moombo -Toninchia Mfeu Sipa Meinde Lomembe Seuse -Kadia nkololo Tomolenga Etiaka -Mirongwe Nkomo -Nfindo Lifishe -Pende Sambamkaka -

38 species of fish in Moero

[Back] [^] from small hill seen at North end as the termination of Kalongosi point - to the East end of E. range 35°

Other mass = 10° near middle of valley coming to Lake

[0074] Lualaba mouth 360° End of Rua m^{ts} 365° End of water on E 42° & N of large plain of Kalongosi

14 Nov<u>r</u> 1867

came on & being doubt-

ful as to the path sent to a village to enquire Headman came full of wrath, what right had we to come that way seeing the usual path was to our left - He mouthed some sentences in the pompous Londa style but would not shew us the way so we left him & proceeded four & a half

[0075] hours through large forest till tired out We took advantage of some huts which had been occupied by bark cloth cutters 4½

 $15^{\mbox{\scriptsize th}}$ Heavy rains from 2 AM - sky lower -ed in morning yet we went on one & a half hours to a village in cassava fields $[1\frac{1}{2}]$

 $16^{\rm th}$ went $1^{\rm th}$ hours & then crossed the Muatize - 25 yards wide & running strongly to our right W - knee & thigh deep

[0076] $1\frac{1}{4} + 2\frac{1}{4}$ cross the R - 10[7] yds wide knee deep flowing South[West] into Muatize

 $17\underline{^{th}}$ Nov<u>r</u> 1867

An hour & a half to another $R^{\underline{t}}$ called Chirongo - 1 yd wide & 1 deep country covered with

well grown forest - We meet many parties of salt traders - very winding 4½ in all path - Note - It is all dense well grown leafy forest - Trees of

[0077]

gum copal and the bark cloth tree and several to me new trees - gum copal spews out just now in the rains in great abundandance where wounds have been made by an insect It falls & sinks into the soil a supply for future ages the small rounded features of Insama's country common Sleep by the R^t Mandapala or Mantapala 12 yds knee deep rapid

[0078]

 $18^{\underline{\mathrm{th}}}$ Nov $\underline{\mathrm{r}}$ 1867

Rest after 2 hours at Kabusi a sluggish narrow streamlet - then Chungu near it is a broad one choked up with trees & plants as Sapotas - Eschinom -anas - free stream 18 yds wide & waist deep - We had to wade at least 100 yards often thigh & waist deep - 2 - 20

Palm oil trees abound on the East of the Chungu This remarkable as the Alt. above the sea [0079] is called "Mafutu a Mboko" and is very nice & sweet - Allah is a very common exclamation among all the people West of Insama's

19th sent off by advice of our guide four fathoms of calico to Cazembe to apprise him of our coming - very superfluous if as is asserted he has been telegraphed to of our progress ever since we crossed the Kalongosi - we

[0080] remain till our messengers return - It has been so clouded over we could not make out our progress or position - never got a glance at sun or stars except in afternoons when they were useless Rain & thunder perpetually though the Rain seldom fell where we were

Bought a pint of Palm oil for a cubit of calico - the bananas are the sweetest I ever tasted and the ground nuts grow very large in Cazembes country - the Cassava is the staple article

[0081]

Saw pure white headed swallows on the Chungu yesterday

20th Nov^r 1867 A fine young [^] [Kapesia] man whose father was Cazembe before this one came to us to conduct us to his relative tomorrow

21st 2¾ to the R^t Lunde + ¾ along a broad path made by Cazembe's orders & due West across a level plain thickly studded with anthills

[0082]

from 15 to 20 feet in height & of a reddish colour very few trees on the plain as it is near the town & the young trees are all used for building huts

R^t Lunde is where
we crossed, it knee deep
& 6 yard wide - It is
broader a mile of[or]
two down - springs
were rising out of
its bed at our ford
4 hours to the
chief village of Cazembe on
the Lakelet Mofwe
C[...] [a] zembe sent us a
big basket of dried

[0083]

fish - Mahahmad bin Saleh met us his people firing guns of welcome - He is a fine portly dark Arab with white beard - a pleasant smile and good address - He presented a meal of vermicelli & sugar Also Cassava made as a sweet meat - I have not tasted sugar since Lake Nyassa - nor coffee His ideas of the source of the Luapula as in a Lake formed by the Chambezi are remarka -ble - Luapula is in fact the Chambezi

[0084]

Neither goats sheep nor cattle thrive here - so the population is shut up to fowls & fish - Cassava abounds - When D^r Lacerda came here the chief village is said to have been on the [^] [Chungu or] Manluapala Rr or Mandapala R $2^h - 20^m + 3 - 30 + 4 = 9^h - 50$ say 20 miles - North of the present village

the present village
A Portuguese [^] [or Goanese] said
to have been wantonly
imprisoned an island in
Mofwe came to mend
guns & was prosperous
for a time but gradually
became poor - the
present Cazembe pitying
his poverty gave him
the plantation on the

[0085]

island, two wives & some people to cultivate & support him - he is content it is said.

23th Nov A great many of Cazembe's people appear with cropped ears & hands lopped off
The present chief has been and is often

guilty of this barbarity one man has just
come to us with neither
ears nor hands &
he tries to excite our
pity by making a
chirruping by striking
the stumps of his hands
on his cheeks -

A dwarf with back bone broken also

[0086] comes about us - the people seem to spare him & he is always scolding some one for

wrong doing

One side of Cazembe's chief residence is 200 double paces [Calculation of Cazembe's residence.] it is nearly a square of 300 yards each side and the entrance is ornamented with about 30 human skulls - It is about 2 miles from the North end of Mofwe & on the North East bank [Calculations that continue onto next page.]

[0087]

[Calculations that continue from previous page.]

Hamid Bogarib
an Arab trader met
at Cazembe's very
civil

23[4]th Nov^r 1867 We were called to go to Cazembe to a grand reception - a head man stood near the Eastern or principal gate with two large ill made umbrellahs over his head & his people behind him He had to wait for admittance till the chief had seen our present & so had we much to Mohamad disgust - When

[0088]

[Map that continues onto next page with calculations and description.]

[0089]

[Map that continues from previous page with calculations and description.]

[0090]

we got in we saw
Cazembe seated in
front of a huge hut
& two umbrellah's
held over him
[Drawing of Cazembe's hut.]

[0091]

On his right were about 30 people sitting behind him in the door way sat his principal wife & attendants - on his left some fifty men & still farther off on both hands sat a hundred Mohamad & I and attendants were placed directly in front of Cazembe & about 500 yards off - While behind & on our right & left we had groups with marimbas drums & other instrum ents of music - Each band came up playing & then took its stand near the chief

[0092]

I counted them before the bands of musicians came in found the whole to be almost 300 the accessions of musicians & women made the whole to be somewhat under 400 These with the queens attendants made the whole party about 500 - It certainly did not number 600 in all - Cazembe was clothed in a common Manchester blue & white print edged with red serge & arranged in huge folds so as to look like crinoline His arms were encased in neatly plaited bead sleaves up to the elbows a broad band of

[0093]

bead work covered the front part of his head & was crowned with a ring of feathers — Having sent my coat on to Ujiji I had no dress but a grey one When called on I rose took off my cap & bowed to him - an old counsellor then gave a long account which he had gathered from Mohamad and this being graciously recieved he came & told me that I was free in Cazembes country to do whatever I liked He then rose & went to an inner apart men whither we followed the present was

[0094]

now produced and exhibited each article in detail - 8 yards of orange coloured serge a large blue table cloth another checked table cloth imitated from Native manufacture on the West coast they always excite great admiration both Arabs & natives like them extremely & lastly a large comb richly gilded such as were worn by ladies in England some 50 years ago -As it was explained that my goods were nearly done the present did not disappoint

[0095]

as it might have done from a trader the kind of articles were greatly admired Its value here might be five Pounds - He again expressed him self pleased & we came away -

The present Cazembe has a heavy uninteresting countenance of chinese type - His eyes have an outward squ[i]nt - He smiled but once & that was pleasant though the cropped ears & hands & heads at the gate made me indisposed to look on any-thing with favour His principal wife came after he had departed to look at

[0096]

the Moingerese [Moinglese] - she was very good looking & tall & had two spears in her hand; having recieved my salutation at a distance of forty yards I involuntarily beckoned her to come nearer - this upset the gravity of all her attendants - all burst into a laugh & ran off -

Cazembe's smile was elicited by a dwarf making some antics before him This dwarf is present at everything - the executioner came to look too - He had a curious instrument hanging to his neck on asking him what it was he told me -

[0097]

Cazembe sent us another huge basket of fish - two do. of flour - & a pot of beer [Drawing of two figures illustrating female ornamentation.]

Female ornaments richly studded with beads & pretty =

Figure 1: Instrument for cutting off ears

[0098]

Cazembe sent us a goat two large baskets of flour - a large basket of fish dried over a fire & a large pot of beer

Saw Cazembe's wife carried to her plantation by six men [twelve at other times] - she is [Drawing of men carrying Cazembe's wife.] very attentive to her agriculture but as it is at a distance she takes the travelling to it easily - cassava is its chief product - sweet potatoes - maize &

[0099]

sorghum follow she was regaling her self with a huge pipe & talking to her attend--ants meanwhile - next day she had twelve carriers.

This people seems more barbarous among themselves than any I have seen yet - they strike each other savage -ly out of mere wanton -ness

26th Mohamad says that he will go to Ujiji next month -He has dhows and many people - He proposes that we go with him - and this seems a good

opportunity - He thinks very little of Cazembe - He has neither tact nor good sense other Cazembes he has known sent food every day to strangers

[0100]

I have reason to be thankful for what he has given me

27th Nov^r 1867

Got stars last night The Portuguese seem to be 50 miles wrong in Latitude alone -Some say that Charlera died on the Chungu others at Mandapala (Chalare - Charala or Charlera) [0101] old counsellor came to ask if we wanted to speak with Cazembe I replied yes & will if he chooses go to morrow -

28th Mohamad has been here more than ten years & has seen four Cazembe

29th Cazembe has a great dance this evening with the usual dreary music Mohamad varies in his accounts of the Lualaba and the Luapula

[0102]

 30^{th} Cazembe has a musical box which he wishes me to mend having no tools I dont know how - the old Chiramba declares that Luapula does not enter Mofwe but gives it a wide berth -1st Dec- 1867 Cazembe is always succeeded by a brother or [^] [in cases] a sister's son - Perembe was owner of the district in which Cazembe's court is placed - He brought me a pot of pombe many sons of this & former Cazembes go about very poor generally no property can be transmitted except slaves and

[0103]

these may die or escape Of land anyone can get as much as he can cultivate so they are not raised above the poorest freeman -

2 sent to tell Cazembe that I intended to go down to see the South end of Moero & Luapula as it enters that Lake - did not recieve an answer at which Mohamad was wroth & vented his rage in words which will be reported & evoke an answer

3^d He gave his answer yesterday but it was not reported till this morning - He will give a man to guide us tomorrow

[0104]

 4^{th} December 1867

Cazembe objected to our going today - He wants to talk again & give us something more to eat

5th Went to Cazembe most of the square in which he dwells is planted with Cassava - sorghum &c - He gave a long oration about his country & power which Mohamad resisted & made his people laugh - He said let him go to Moero & draw cloth out of it - He lifted up two spears he had by him several times which Moham -ad took as an insult & mocked him - He is one

who never was checked a very uninteresting old Chinaman's face - out ward squint of both

[0105]

lifeless eyes - & a few hairs on his chin - body thin & bent together by excesses

 $6^{\underline{\mathrm{th}}}$ Dec $\underline{\mathrm{r}}$ 1867 The oldest man in these parts - Mohamad thinks 150 years by name Perembe was chief of this land around Mofwe till this Cazembe came He says the first Cazembe was attracted by the fish - a perch being the most abundant He is a man of good sense - they have the idea of all from a single pair

[0106]

7th Dec^r 1867 clouds usually prevent observations, last night fever did make me unable to go out

 $8^{\underline{\text{th}}}$ - $11^{\underline{\text{th}}}$ very ill of intermittent fever

12th better of fever but no observations can be made - clouds collect every evening —

Writing letters for home Sir Roderick - Webb -Tom - Agnes - John -Lord Kinnaird - Mr Oswell - Young - Charles - MacLear 13th Set in rainy no observations - a number of fine young girls who live in Casembes compound came

[0107]

& shook hands in their way which is to cross the right over to the left & catch then give a few claps of both hands repeating the first clasp.

15th Syde's people went off this morning Send to Casembe today to say that Mohamad and I are going off - Two traders and I each got the same return present from Casambe - one goat!

 $16^{\underline{\mathrm{th}}}$ No answer from Casembe - bad manners

 $17^{\underline{\mathrm{th}}}$ Set in rain all morning -

 $18^{\underline{\text{th}}}$ Set in rain - very ill with bleeding

[0108]

18th Dec^r 1867 always ill when not working - I have been a month here and cannot get Lunars -Casembe sent a big basket of fish - two pots of beer & a basket of cassava - says that we can go when we choose - He thought we were going to Moero, but we did not go I thought he objected so did not wish to go against his will

19th Dec^r 1867 Went to say Goodbye to Cazembe - He made a long speech which Mohamad answered Casembe tried to be gracious - said

[0109] that we had eaten very little of his food but he allowed us to go

20th Dec^r 1867 - A guide has been sent for by Casembe and we wait for him today & start tomorrow (very ill with bleeding in large quantities)

21st waiting for the guide but will go without tomorrow Boys stealing beads

 $22^{\underline{d}}$ Leave Casembe $1^{1}\!\!/\!\!4$ hous E. to Lunde Rt $1^{1}\!\!/\!\!2$ N + $^{1}\!\!/\!\!2$ N + $^{1}\!\!/\!\!2$ N to Chungu R^t -

[0110]

We came to the R^t Chungu 3¾ hours but stopped at a village on its West side -

23^d Dec^r 1867[Map or drawing beneath the text.] crossed the Chungu this morning raining from above - cold to the waist below saw black monkeys
[Map of landmarks referenced in text that notes distances

[Map of landmarks referenced in text that notes distances between them and includes Chirongo RtRivulet, Mandapala, Moero, Kabusi, Chungu at LatLatitude 9° 32' SSouth, Mofwe, and Lunde.]

[0111]

Chungu goes to
Moero so I am informed this morning
The main stream is
18 yds & waist deep but
we have a 100 yds of
water thigh & waist deep
full of roots & logs
of wood -

Mohamad came this evening. - Casembe sends three men to guide me to Moero

24th a drizzly day and we are in a miserable place - Brakens 11 feet high, but we wait for Casembe's guides who will not shun such weather - gave some beads to buy things for Christmas

[0112]

25th December 1867

We spend Christmas day in a miserable spot on the banks of the Kabusi a tributary of the Chungu close by - drizzly showers come on every now and then and the soil is all damp beneath Mohamad denies that the Casembe is elective the present one is a usurper - the son fled to Nsama - (groundnut) or Nshama -

The best account of the man Manower is that having mended a gun for Casembe he was coaxed away from Montero - who sent back for him but

[0113]

let him remain that Casembe gave him many concubines & slaves - this neglected him & he sold his people & now digs pitfalls for game has 3 concubines & 2 children now - would not come near me from it is said fear

 26^{th} Waiting for guides about ten men came

27th Start today & in 2 hours cross Manda-pala - waist deep now Elephants numerous - This part was stocked with people who have all fled from Casembe because for the slightest fault he mutilated

[0114] and took their children as slaves - This is the usual way that tyra -nny is checked here

28th to R^t [...] ukw - 3 [Chirongo] 3 hours Hot fountain in Insama's country boils maize & cassava - gushes up every now & then There are two places where copper ore exists in this country but people do not know how to smelt it 3

 29^{th} Rt Kabukwa sick — $1\frac{1}{2}$

 $30^{\underline{\text{th}}}$ Better - thanks to Good Providence

[0115] Mohamad waits for men sent to convoy us and shew me Moero -

31st Heavy rain prevented the guide & convoy from coming - Mohamad gave me a good dinner of fine flour porridge & a fowl - I have had coarse flour only for some time past & my stomach is weak - I fail in the march too - I used to be the first & am now the last

[0116]

1st January 1868
Almighty & Gracious
Father help me to be
more profitable this
year - Forgive the sins
of the last year for
Thy Son's sake - If I
am to die this year
prepare me for it -

Bought 3 hoes at two yards calico apiece This is the last place where we can buy them - one will buy a good goat in Buire We go thither and as one goat died & the other dried up I long to have others for the milk strengthens - one hoe measures in its flat part 13½ inches

[0117] by $6\frac{1}{2}$ D° -

My guide has come and we go to Moero tomorrow

 $2^{\underline{d}}$ Simon ill prevents our going - sky all covered with $\underline{\text{segab}} =$ clouds

[0118]

Thunder every day
in. tenths
Rain October - 1.10
— November 8.89
— December 9.17
The above three months 19.16

[0119]

 $Rainfall = Dec_{-}^{r} 1867$

up to the $18^{\underline{\text{th}}}$ 5.88 $20^{\underline{\text{th}}}$ 3 & 4 PM T. N = .66

 D^{o} D^{o} Casembe 5 - 7 PM W. T .89

 $24^{\underline{\mathrm{th}}}$ Chungu Rt during night T. .34 & morning

Do Do Drizzly showers T. .9

25th - morning T. .5

 $27\frac{\rm th}{\rm -}$ - Mandapala R
t3- 5 PM T.33

 $3\theta[1]^{\text{th}}$ RtKabukwa 3 - 5 PM T.T. .93

Total for December 9.17 Many showers fall which shew nothing in the measure fight [...] ny strangers

Figure 2: 26^{th} Nov^r1867

Katofia [Calculation.]
Mchinda
Nshinda on other
side
Fisindi
Kutiringa mboga
Chanambe Lake
beyond Tanganyika

a dwarf at Cazembes 3 ft 9 inches - His name Zofu of Charobansa

[0121]

[Drawing depicting Mofwe with the following 3 rivulets flowing in or out of it - RtRivulet Mandapala, Chungu RtRivulet, Lunde RtRivulet.]

When one Cazembe dies his successor builds a new town invariably -Towns have been on Lunde Chungu Mandapala = Mofwe

Charala [^] [D^r Lacerda] came to Chungwe [^] [lived] 10 days & died then the chief man moved to Lembwe (Lorkuesa) [^] [that] chiefs name

Some Ujiji people & the followers of Lacerda began to fight at R Chungu - Cazembe gave Lacerda 10 slaves & men to build a house - & presents to the others & said to out

[0122]

Mbwui next by ^[Kabende] Matanda Cazembe (Bemba 10 days to go to Gezira from Cazembe

Beyond Moero the Luapula is the Lualaba Goitre & enlarged scrotum prevail very much at Lake Bemba

Figure 3: Bakers L

[0123]

 1^{st} Dec^r 11 AM T from E - .93

 $6^{\underline{\text{th}}}$ 4 to 5 PM T = .40

 $8^{\underline{\text{th}}}$ Cazembe - evening & night gently .25

 $10^{\underline{\text{th}}}$ Do morning T .4

 $D^{\underline{o}}$ 12
th last night T .9

- Dº Dº Noon T === .8 Dº Dº 4 & 5 PM T .53

 D^{o} 13 Cazembe - 6 - 9 AM .29

 $\rm D^o$ 14 during night T .29

 $D^{o} 15^{th}$ night - T W.16

 $\rm D^{o}$ 18 - 8 to 10 AM T N $\underline{.39}$ Casembe's 18 Dec 1867/5 $\underline{.88}$

[0124]

Mambwe R Chambeze source [Drawing of lakelet[?]] Lakelet Babisa Mokishi of Gezira Sultan Nombi - takes Luapula then comes round to Karoko Moero Sultan of Lebemba Kabende Bambeolo By Mohamad bin Saleh Moanzabamba is a Mobisa - Gezira a Lake - Kabende is beyond him

[0125] Rainfall [in.]

 Nov^r 19th in all 4.65

19 Chungu R Noon till 4 PM intervals – Loud Thunder .90

 $\begin{array}{c} 21\underline{^{\mathrm{st}}} \ \mathrm{Rt} \ \mathrm{Lunde} \\ 7 \ \mathrm{AM.} \ \mathrm{T.}15 \end{array}$

26th Cazembe's on Mofwe Lakelet - 3 PM T.7

27 Cazembes T. 7 AM. — .36

 $\begin{array}{c} 29^{\rm th} \ {\rm T} \ {\mbox{-}} \ 2 \ {\mbox{-}} \ 6 \ {\rm AM} \\ 2.53 \end{array}$

Rainfall Nov^r 8.89

[0126]

[Drawing of two shapes: one tube-like, one rectangular.]

Motoňkoko vil of Cazembe -

Manda = Ungwesafrse

vil Kefurna - Mosiwe headman of it

Moňganda town
of Cazembe
Manoenwa - a Port
uguese in prison on an island
Chalari who died =
Dr Lacerda? The
town of Cazembe has been shifted along
the Luapula four
times as each of
that name died

[0127]

Chamomesi a man from Katanga we met on the Choma 30 Oct /67

[Calculations.]

[0128]

16 Nov^r 1867 Dismiss James from being cook - He allowed Gardner - the filthiest fellow of the whole to wash his dirty paws in the pot for cooking porridge - He shook off the remains of the dirt into the vessel & left it - James standing by with his mouth filled with his tongue lolling out

 $[16[7]^{\mathrm{th}}]$ Took Amoda on in James stead

19th Dec^r 1867 - Casembe's Find that Gardner has been stealing wholesale from the bead bag he carried.

[0129]

[Drawing of three full-length figures emphasizing appearance of hair knotted at back. Below are two similar figures showing head only and, separately, underneath is another similar figure.]

[0130]

 9^{th} by Moero - 4 AM .10

 11^{th} Do T. .12

13 Kalongosi T 7 AM & 1 PM .78 T. the first really heavy shower -Rains will now turn from partial to general

 $15^{\underline{\text{th}}}$ 2 AM with much T .58 forenoon drizzling .8

 $16^{\underline{\mathrm{th}}}$ night .22

17 6 PM T and night heavy 1.44

Nov^r up to 17 = 4.65 Oct^r 1.10

[0131]

Rainfall Oct 1867

 22^{d} - T = (Thunder) from 78 noon - then at 2 PM a shower accompanied it - laid the dust only

 $24^{\rm th}$ T 3 PM .3

 27^{th} gentle drizzle about .7

 $29\underline{^{\mathrm{th}}}$ with T. 3 PM .22 Choma River

 $31^{\rm st}$ T. all about & 1.10 apparently rain but only a few drops here

 $1^{\underline{st}}$ Nov^r 1867 a gentle shower during our march .7

 $3^{\underline{d}}$ Nov a R. Luao 2 AM with T. .30

 $7\frac{\text{th}}{}$ Mosumba - 6 AM with thunder 1.8

 $8^{\underline{\mathrm{th}}}$ Chiputas - T 8

[0132]

1867

[Temperatures at various hours of the day.]

15 Dec^r rainy time [Temperatures at various hours of the day.] At Casembe's town

[0133]

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16<sup>th</sup> Oct<sup>r</sup> 1867
   Karungu's on the
   Kamosenga Rt
   [Temperatures at various hours of the day.]
       Karungu 23 Oct
   [Temperatures at various hours of the day.]
       R Chungu near
   Cazembe's 20 Nov
   [0134]
Chiruko
              ach sent
              thank
              a oni man
              um all
              amara klas
              ogie
      • Lukri
      • Budi
      • Je[a]nga
      • Karenga
      • Manyoko
      • Mbulu
      • Thalaputa
      • Kabile
      • Luku[r]gagonaboja
   Fomalhaut
   [Calculation dated 30 OctOctober, resulting in LatLatitude of village on RRiver Choma]
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[0135]

[Calculations.]

[Calculations.]

[Calculations.]

[0136]

Chikongo West of Karungu -Choma is W.S.W. of this - Logarawa goes into Moero & Moero comes from Cazembe's

Groundnuts or
Mteza or Mbalala
roasted in a frying
pan - then rubbed
between the hands to
take off the skin - &
pounded fine, then
mixed with water
& boiled make an
excellent substitute
for milk with por-ridge - add salt -

[0137] 20 Sept 1867

[Temperatures at various hours of the day.]

 $\operatorname{Has}[\widehat{\ }][a]$ raji \overleftarrow{b} a man of Mahamad

Kongolopya = whirlwind

Karungu = Itawa Dis^t Mteta a greater chief W. Juma Merkano passed Manda Marumbi which is near to Tanganyika on his way to Rua - [0138]

the day & night - a lower stratum of clouds comes from the N & upper from S. turning round & round when they meet [Drawing of arrows illustrating cloud movement referenced in text.] 4 - 30 PM a shower T. & early on morning of $5\frac{\text{th}}{\text{h}} = .27$ 11 AM T. to 4 PM ====== .47

 $6^{\underline{th}}$ gentle rain during night .4

.78

22^d since the above date it has often threatened rain & even thundered long - the thunder clouds passing all around & even a few drops of rain fell but soil not wetted

[0139]

17 Sept 1867

To James 4 Cubits Send in 3 to

1st Oct^r 1867 clouded all over & thundering in distance = a few drops of rain only at R. Kamosenga

 $2^{\underline{d}}$ Karungu's vil Thunder [^] [3 PM] in distance & probably showers

 $3^{\underline{d}}$ D° 4 AM. T. & at daylight a

slight shower not enough to lay the dust 3 PM a few heavy drops of rain fell

 4^{th} D° 3 PM Thunder -ing in the N.N.W - clouded over most of

[0140]

[Drawing of scene outside Livingstone's hut.]

[0141]

[Dated calculations based on geographical coordinates including 8° 55′ 18" SSouth.]

Syde maintains that all the rivers East of this flow into the South except R Likwa which is broad like a Lake.

18th An intelligent native said that Moero came round from South to N.E. of Nsama before joining the Lake Tanganyika

- <u>Lisépe</u> a red bean which grows wild by long cooking it is made eatable by some Nsama's people dont know

[0142]

- [6] Kabogo Lohembe
- [7] Kerengoana a chief
- [8] Morora country & cross
- R Ruaha [9] Dewerwa
- [10] Powaga [11] Puge country
- of Merere [12] Ubage D^o
- [13]Mdonya Do[14]Namkori
- $\rm D^o$ [15] Irundu a place
- where they make salt -
- [16] Nyamunyama D^o
- [17] Moarafu hills

[18] Tangure = chief town of Merere [19] Usafa then [20] Nyika -From Nyika to Paoaga is all Merere's country & equal to 2 months It is 15 days more Urungu

[0143]

Near the coast the R Rovu goes into the sea. R. Mgeta of Obena country flows into Lufiji & Sea R. Ruaha into Lufiji too On N. W. of Chambeze country Nyika goes into Likwa R Mono of Nyika goes into Likwa & that then flows into Tanganyika country of Basango -Usango Nyika R. Mono [^] [neck deep] Nyamoanga Mambwe R. Chambeze crossed by a bridge then Urungu

R Barare comes from Beni into Merere's country

[1] Bagamoio [2] Ngerengere [3] Kutu [4] Kirengwe [5] Biuga Mabruki. a lofty hill [0144] X