American Space Dushanbe

NASA SPACE APPS DUSHANBE

Oogway comics

LIFE IS CLOSER..

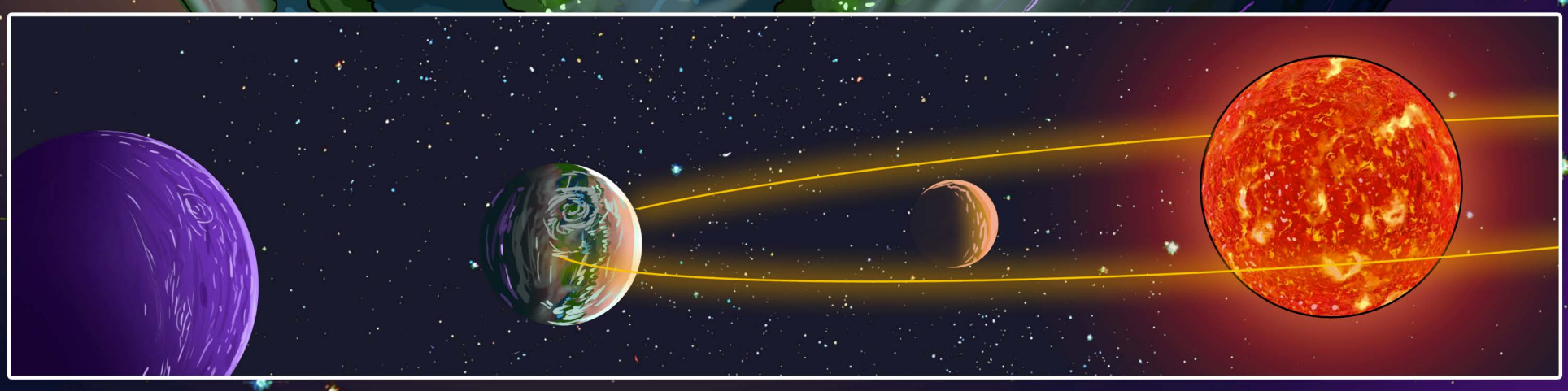
NASSY

We've been orbiting the planet Nassy-2 for 575 days now. What I see now from NASA's spacecraft is breathtaking. Even from this far away, I realise that the planet is teeming with life.

Nassy-2 is a unique planet with a mass of 0.972 Earth mass, with a weaker gravity. The planet is tidally locked on one side to the red dwarf N-58. That makes it daytime on one side and nighttime on the other.

The N-58 system is located 3 million light years from Earth, in our neighbouring Andromeda galaxy, which we got to thanks to the moleholes discovered. This system was discovered by researchers from the HWO programme.

Nassy-2 is the second planet from N-58 and is in the habitable zone of the star system. The red dwarf is over 6 billion years old. It's already gone through a period of instability that could threaten the development of life.



We sent two probes to gather information about her. Why Nassy? The HWO team named her after the Loch Ness monster because not many people believed in her as well as the monster from Scotland.

The planet is a unique astrobiological find, because only here we have managed to find two types of life: in one environment of flint and in the other of carbon - the familiar form.

The dark part of the planet is cold, where temperatures reach up to -81 degrees centigrade, and is made up of rocks. There are no signs of life on this part of the planet

The rocks on the planet are inclined, which saves the locals from strong winds. Among the rocks, we found large deposits of tonsillite.

The other side of planet is hot desert with a temperature limit of 69 degrees centigrade.

Due to the underground water and the high temperature on the surface, Geysers periodically appear. Such conditi-ons allowed large living organisms, whose cells are based on flint compounds, to survive and adapt. This biological structure has made the creatures resistant to heat and radiation. According to our observations, these creatures are not intelligent.

What surprised us was the border between the two sides. It's a strip stretching across the planet, covered with forests and oceans. Temperatures here range from -30 to 40 degrees centigrade. The planet's atmosphere is 39 per cent oxygen, 50 per cent nitrogen and 11 per cent radon.

Between the day side and the night side, the surface is more relief, which makes the water bodies at different elevations, contribute to the rapid evaporation and water cycle on the planet.

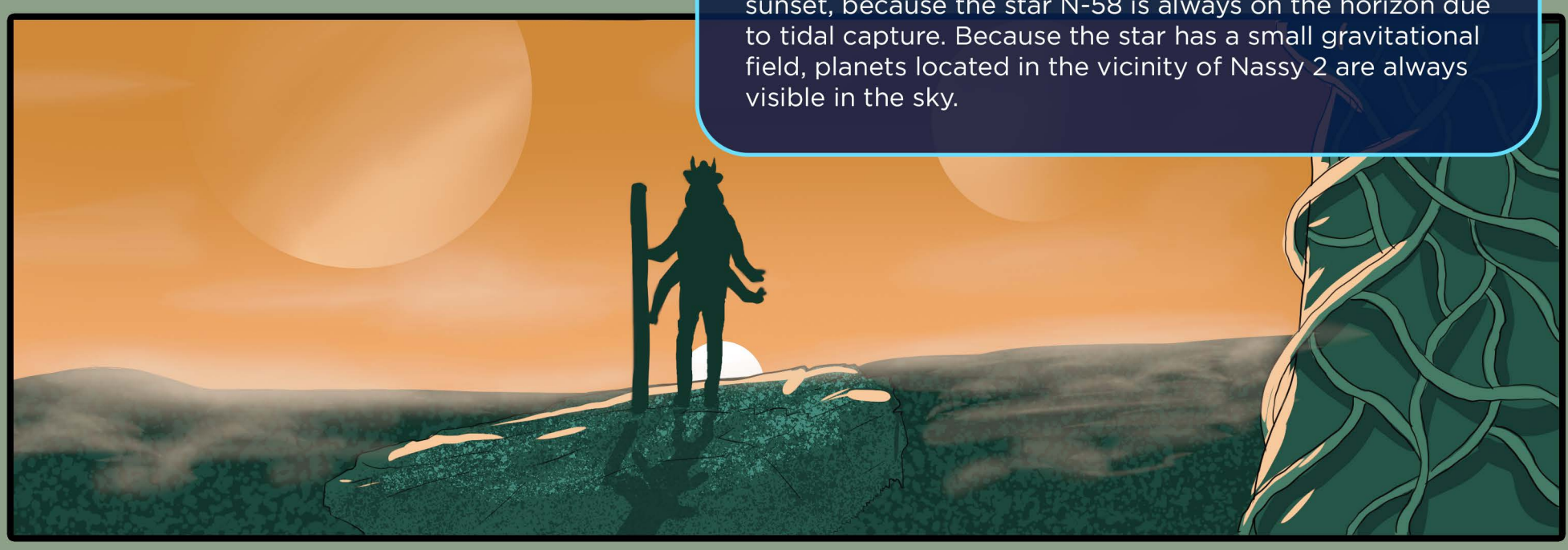
Because the planet has low light levels, underwater creatures and vegetation have adapted to the darkness. The phospholipids have taught them how to emit a weak light.

The huge rift formed by the comet impact has caused the preservation of the living environment on the planet. The water reservoirs from which water flows down into the planet's crust do not allow evaporation or freezing.


According to the obtained data, the vegetation on the planet is very high, it reaches up to 100-150 metres. The vegetation cover differs from the terrestrial ones, as it receives mainly diffused light.


The height of the trees is also due to the low of 0.88*Earth gravity, and poor photosynthesis. These plants have massive roots, which are long in length.


The greatest discovery of the voyage was the discovery of intelligent inhabitants. Humanoids, living in large groups on trees in the forests, are quite organised. They're 40-50 cm taller than humans and have pale skin colouring. We think this is due to high radiation and low light levels.


The intelligent inhabitants of the planet, see the eternal sunset, because the star N-58 is always on the horizon due to tidal capture. Because the star has a small gravitational field, planets located in the vicinity of Nassy 2 are always visible in the sky.

It's time to explore the planet closer

I wonder how long it will be before I see you again.

Stop whining, member of the human species!

You're an AI, you don't understand human feelings.

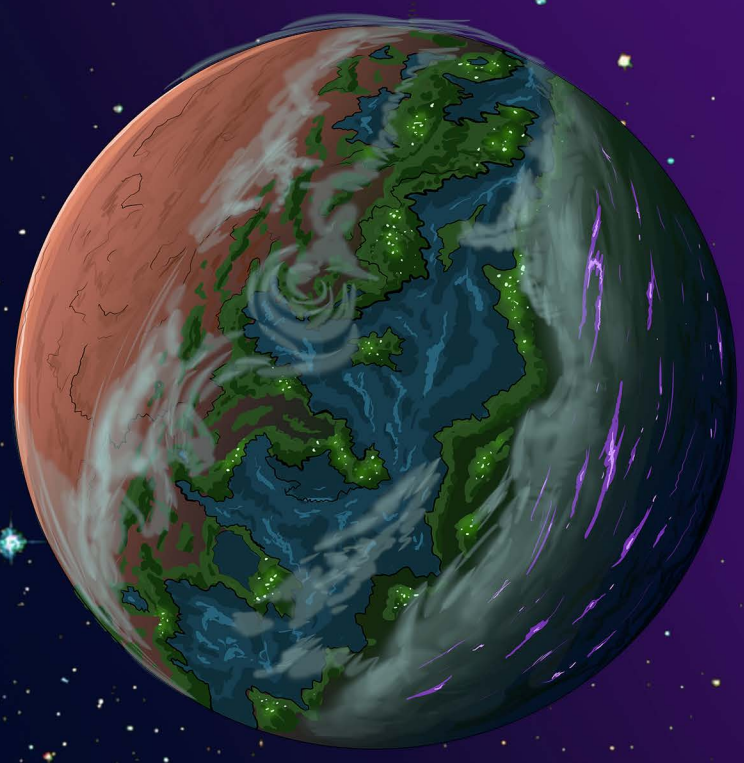
Referencing has started, but for some reason the computer gives an error. Diagnostics is required. So contact the AI on the ship.


Oops! Ship's gone. There was a depressurization during undocking of the landing pod. At this time only launch to the planet is possible.
BOOM!

AI's Reception... Are you seeing this, too? This is unbelievable!

NASSY

Planet type: Terrestrial
Mass: 0.972 Earths
Orbital radius: 0.0158 AU
Eccentricity: 0.0
Discovery date: 2023
Planet radius: 0.861 x Earth
Orbital Period: 12 days
Detection method: Direct Imaging
Gravity: 0.88 x Earth



EVOLUTION OF NASSY

The planet formed during the early period of the star N-58, about 4.5 billion years ago. In the beginning, the distance from the star was much farther, and Nassy first had a rotation around its orbit. So day replaced night in the way we're used to. The planet had water, oxygen and a lot of silicon. This led to the formation of stable silicon compounds, not carbon, which is the basis of life on Earth. Thus billions of years led to the formation of the first microorganisms, from silicon polymers that were highly conductive to radiation, and highly heat resistant. Gradually multicellular creatures learnt to absorb and adapt to the high radiation and temperature of the red dwarf.

One day a comet hit the planet, bringing new chemical compounds, more bacteria and microorganisms able to live in this environment. The fall of the comet led to the formation of a rift where water began to accumulate, which later became the reason for the preservation of life.

Due to the vibrations caused by the comet impact, the planet changed its trajectory and entered the tidal zone of the star. That made one side permanently cold and dark and the other hot and strongly lit. It took another 2 billion years or so, which completely overturned astrobiology. The comet brought bacterial carbon compounds that were able to develop and evolve, only between the dark and light side of the planet. And the rest of the silicon-based creatures continued to live on the hot side.

As of today, the area between the dark and light side is inhabited by the intelligent inhabitants of Nassy, who are still at the beginning of their development.

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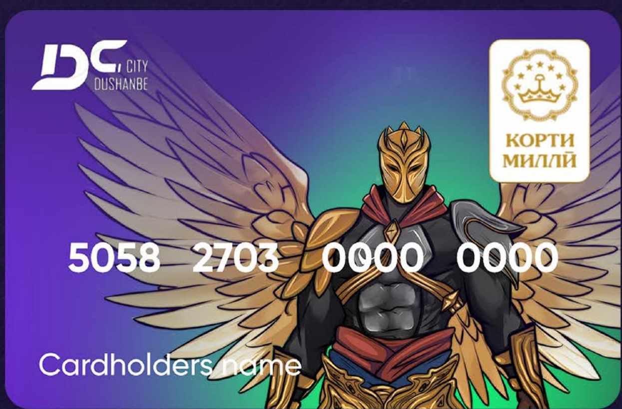

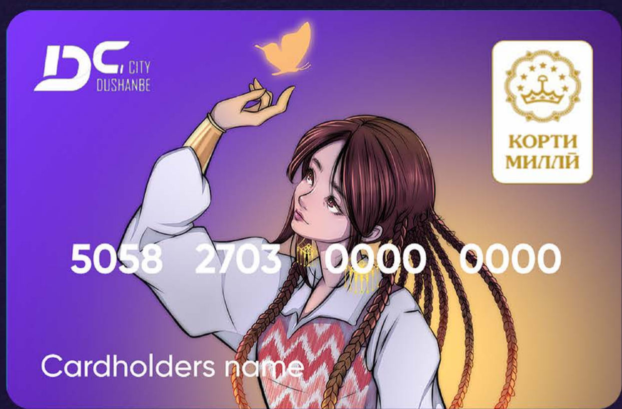

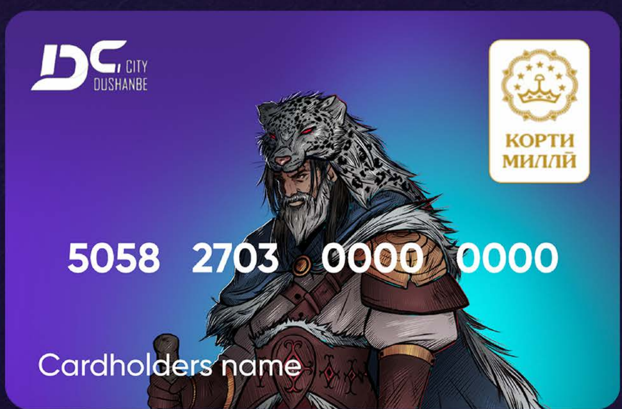

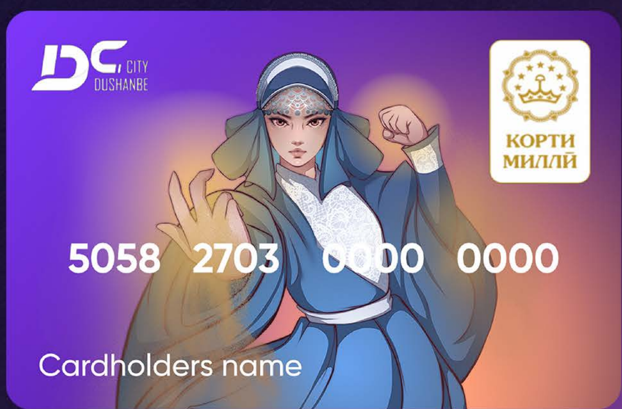

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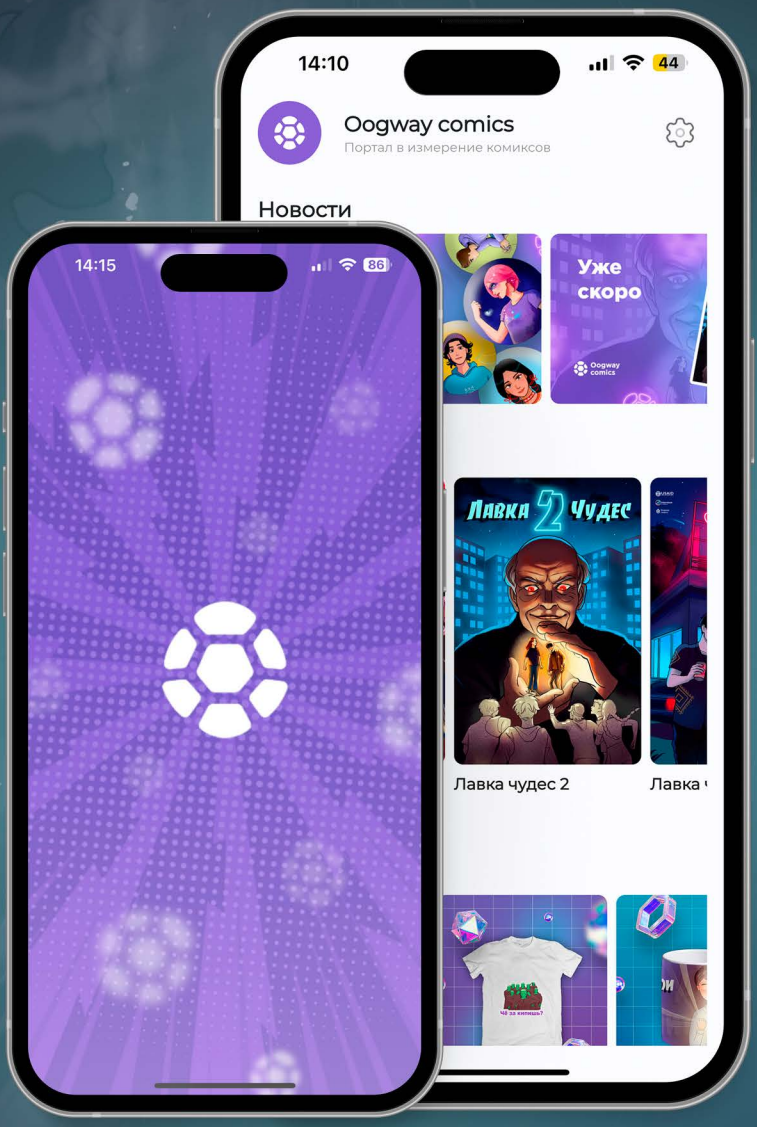

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