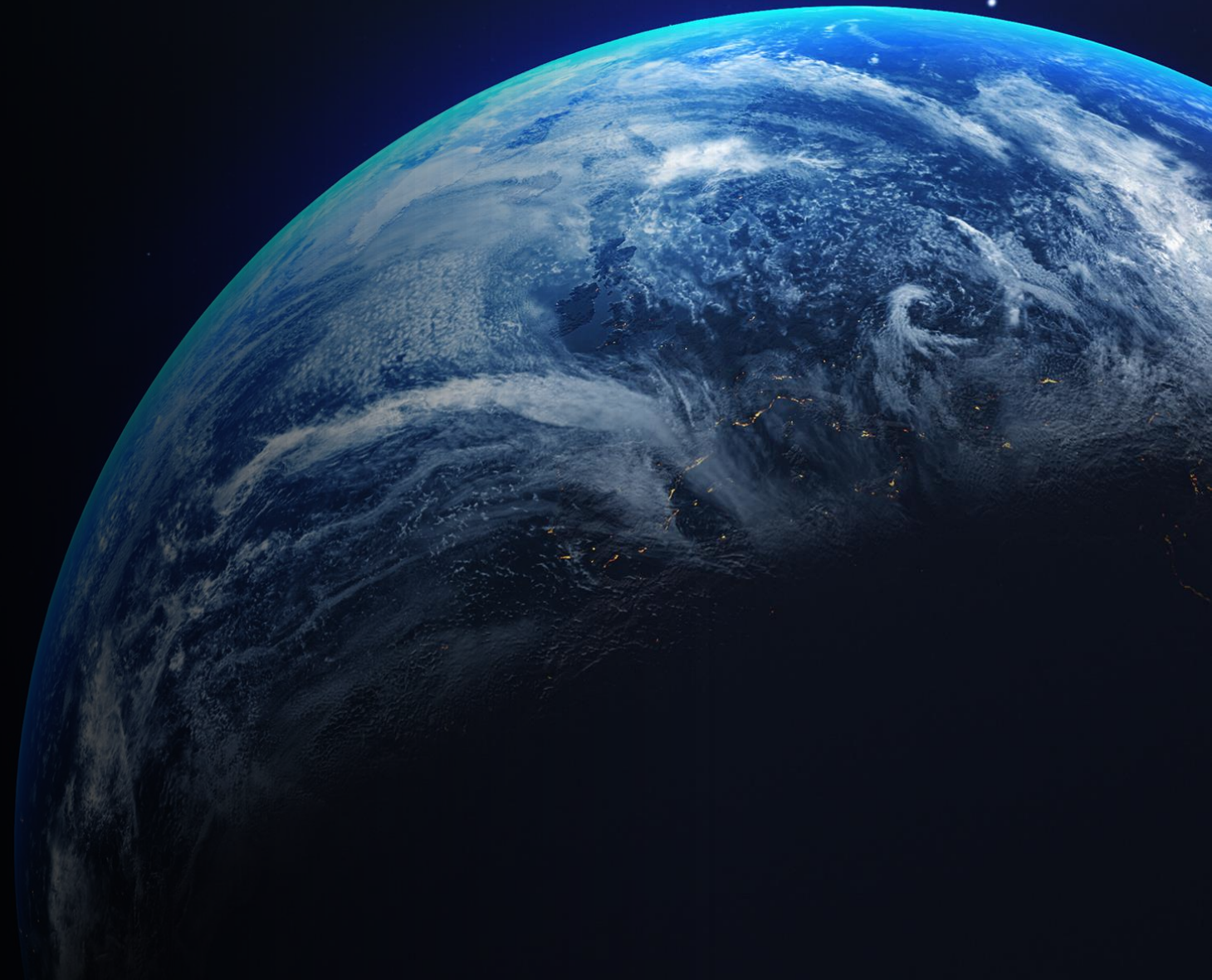




HOW LUCKY IS THE CHEMISTRY OF LIFE ON EARTH?

Saeed





Казанский федеральный
УНИВЕРСИТЕТ

HOW LUCKY IS THE CHEMISTRY OF LIFE ON EARTH?

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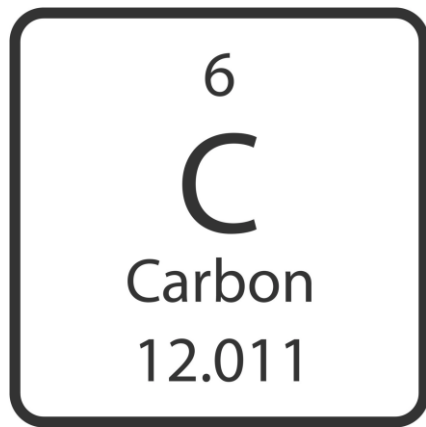
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дисциплин



How can we define the chemistry of our biology in 1 word?

- The chemistry of **Carbon**





Titan a moon of Saturn



Hayabusa spacecraft



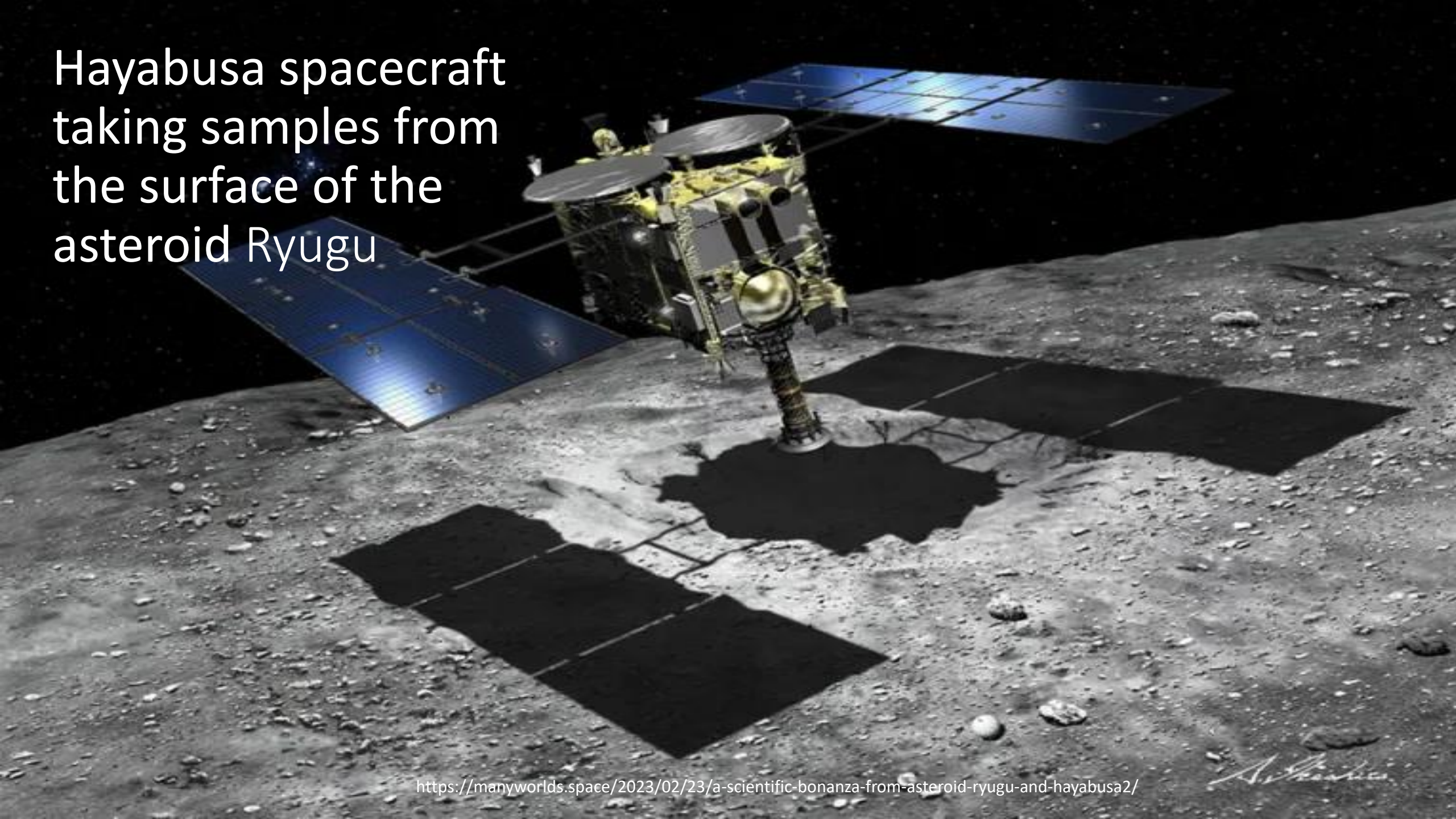
801-1000
13-18



322
10

<https://solarsystem.nasa.gov/missions/hayabusa-2/in-depth/>

Hayabusa spacecraft
taking samples from
the surface of the
asteroid Ryugu



Artwork

The successful delivery of the samples back to earth



Ryugu
A0106



3 mm

Ryugu
C0107



3 mm

- Racemic amino acids
- Uracil
- Vitamin B3
- Imidazole

Relative Sizes of Habitable Zone Planets

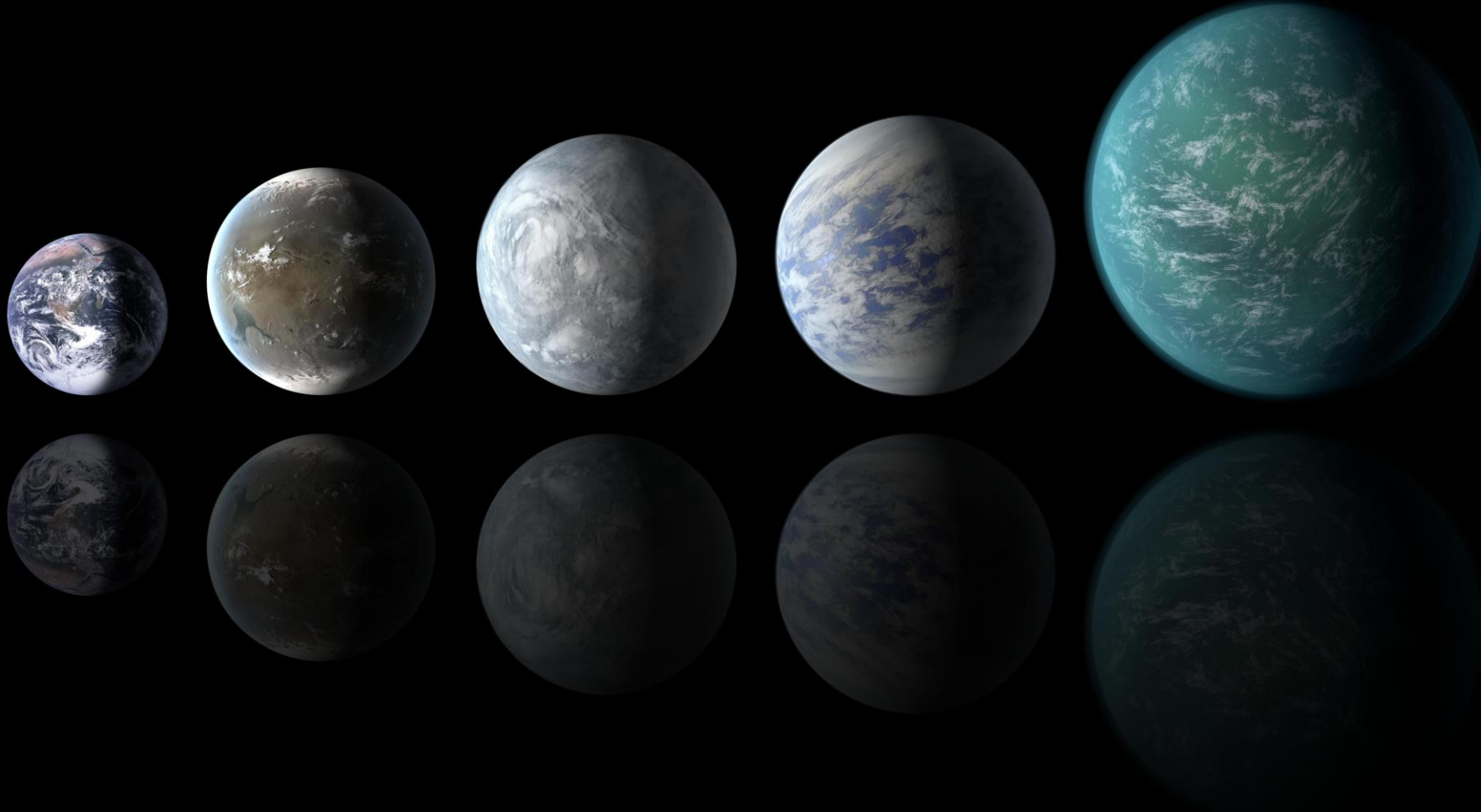
Earth

Kepler-62f

Kepler-62e

Kepler-69c

Kepler-22b



- 1. How is this scientific discovery or achievement related to my country (region) / Russia?
- 2. How did it affect the development of my country (region) / Russia?

- 3. How does this scientific discovery or achievement contribute to the development of international cooperation?
- 4. What prospects does it have in the development of science and cooperation?

Использованная литература

<https://manyworlds.space/2023/02/23/a-scientific-bonanza-from-asteroid-ryugu-and-hayabusa2/>

<https://astrobiology.nasa.gov/news/results-from-ryugu/>

<https://www.nature.com/articles/s41467-023-36904-3>

<https://exoplanets.nasa.gov/resources/131/lining-kepler-habitable-zone-planets-up/>

<https://www.space.com/4968-titan-oil-earth.html>



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Спасибо за внимание!