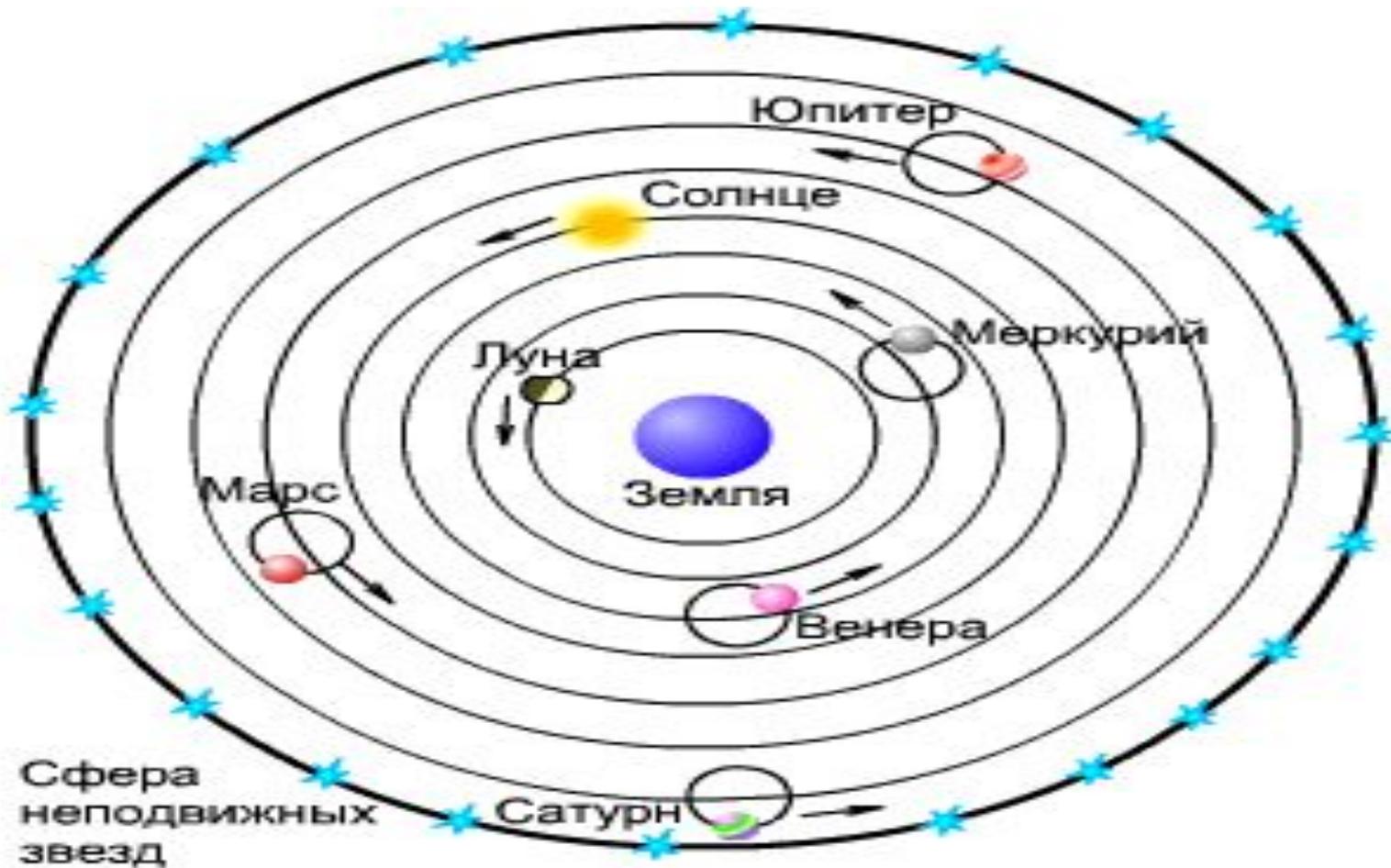


**Планеты в Солнечной
Системе и за её пределами.
Внеземная жизнь.**



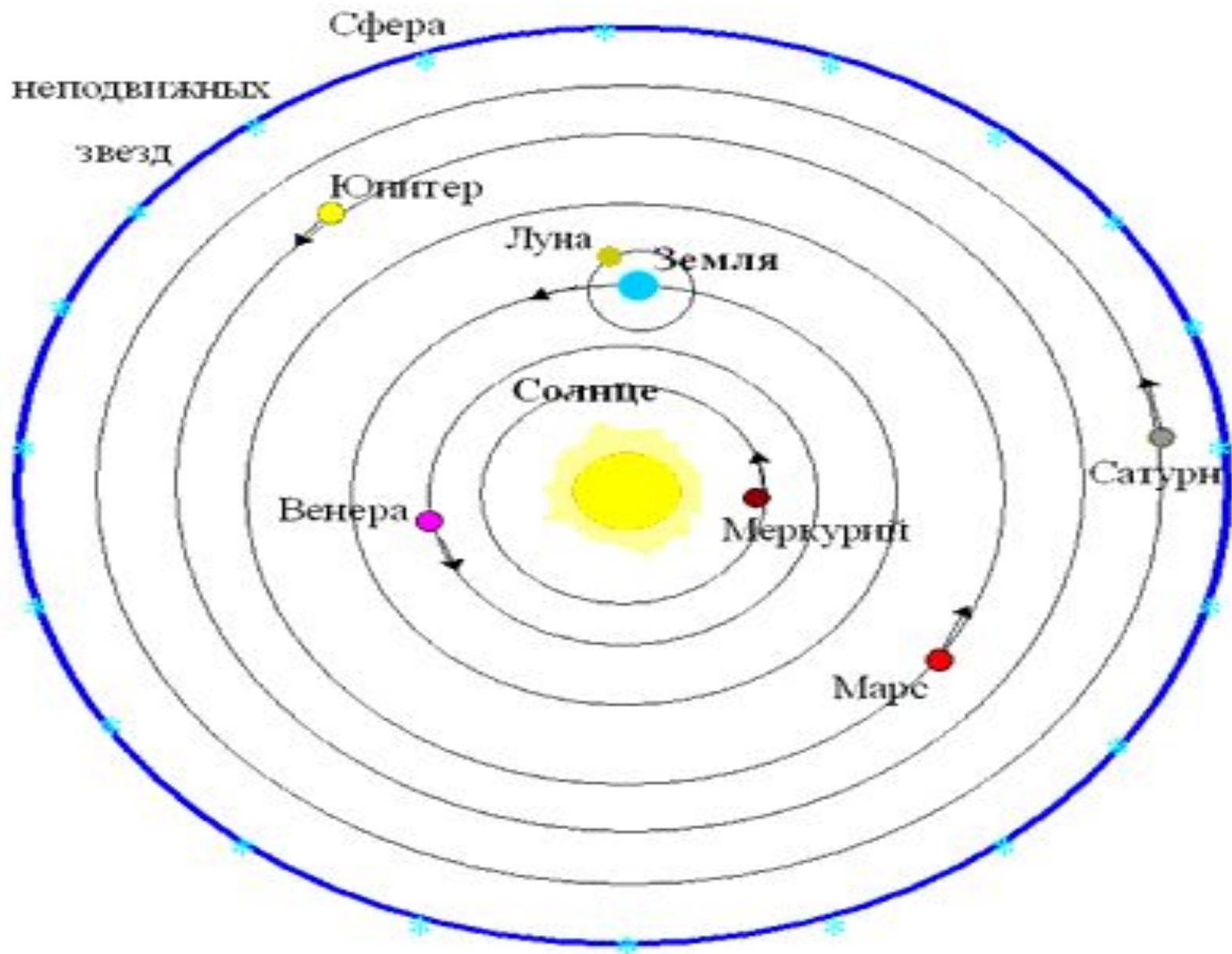


Геоцентрическая система

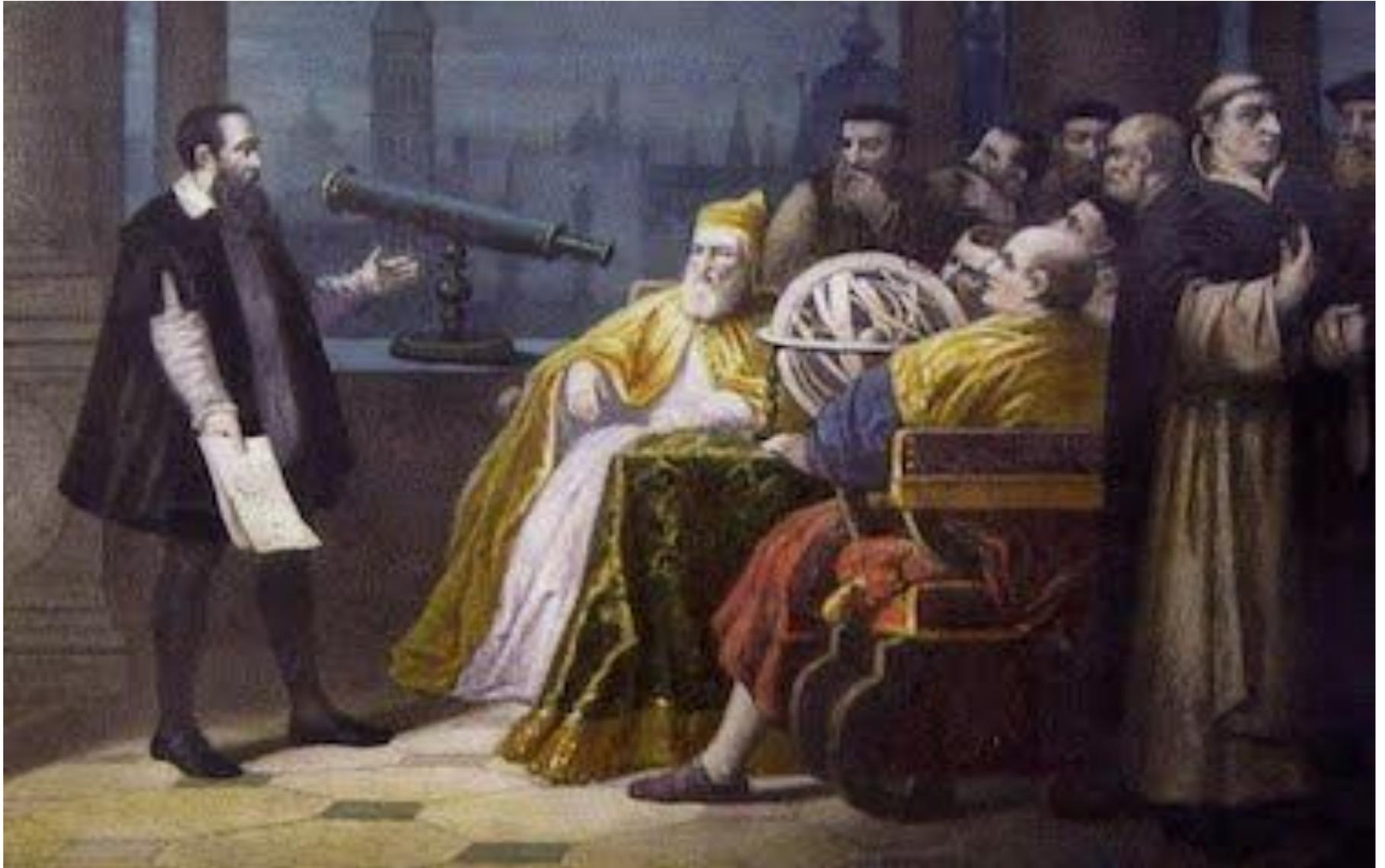




Николай Коперник
(1473–1543)



Галилео Галилей (1564-1642)





СТРОЕНИЕ СОЛНЕЧНОЙ СИСТЕМЫ



Нептун

Уран

Сатурн

Солнце

Марс

Венера

Меркурий

Комета

Пояс астероидов

Земля

Луна

Юпитер

Строение Солнечной системы
Иллюстрация подготовлена редакцией газеты
1081 025-010-001 2
Издательство «А. А. Вольфсон»
Удмуртский институт наук М. А. Ковалева
Кировская 3, А. Тельска

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190011, Москва, ул. Мельникова, 50
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АИР-ПРЕСС



Солнце

Плутон

Нептун

Уран

Сатурн

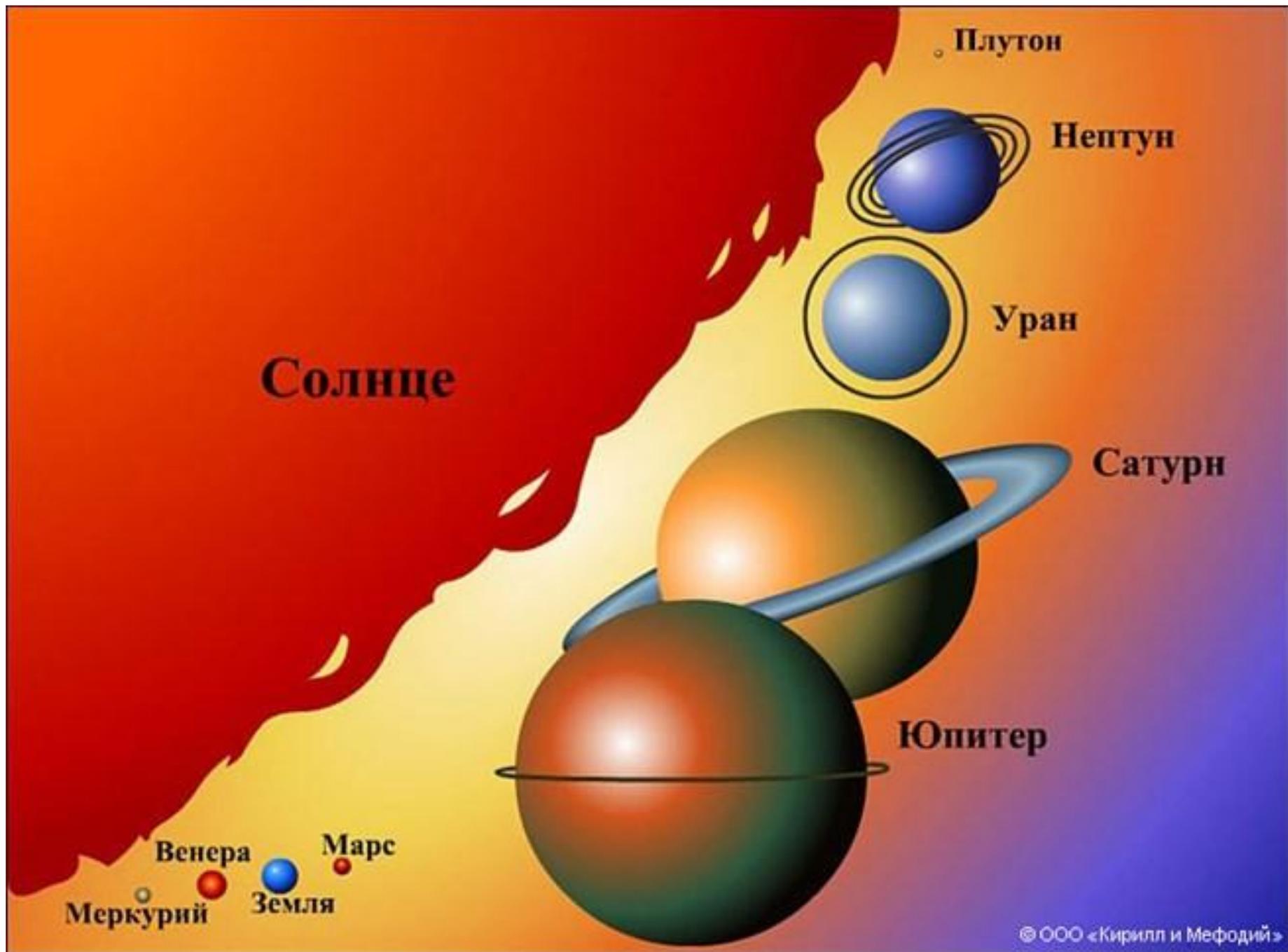
Юпитер

Венера

Марс

Меркурий

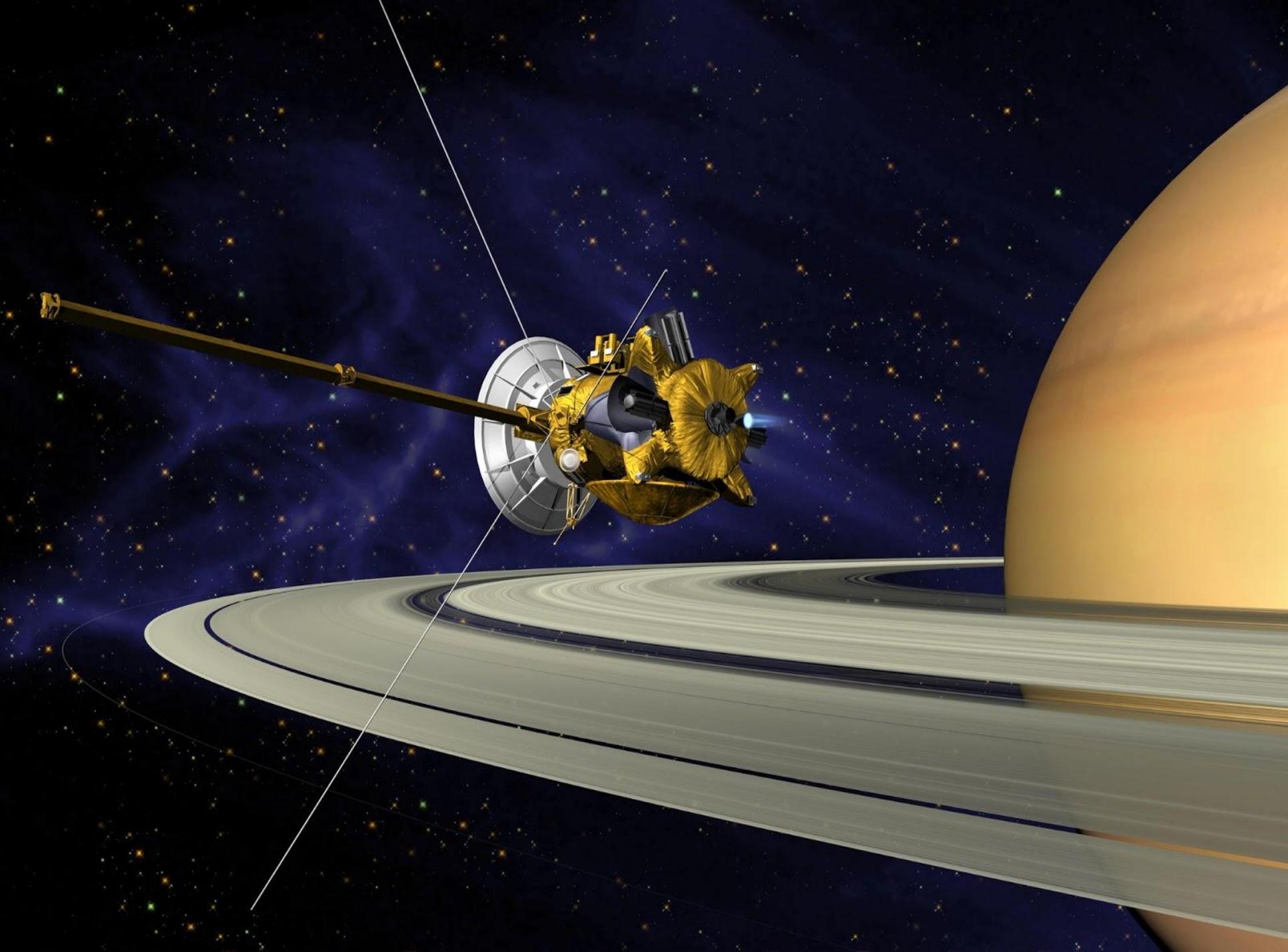
Земля







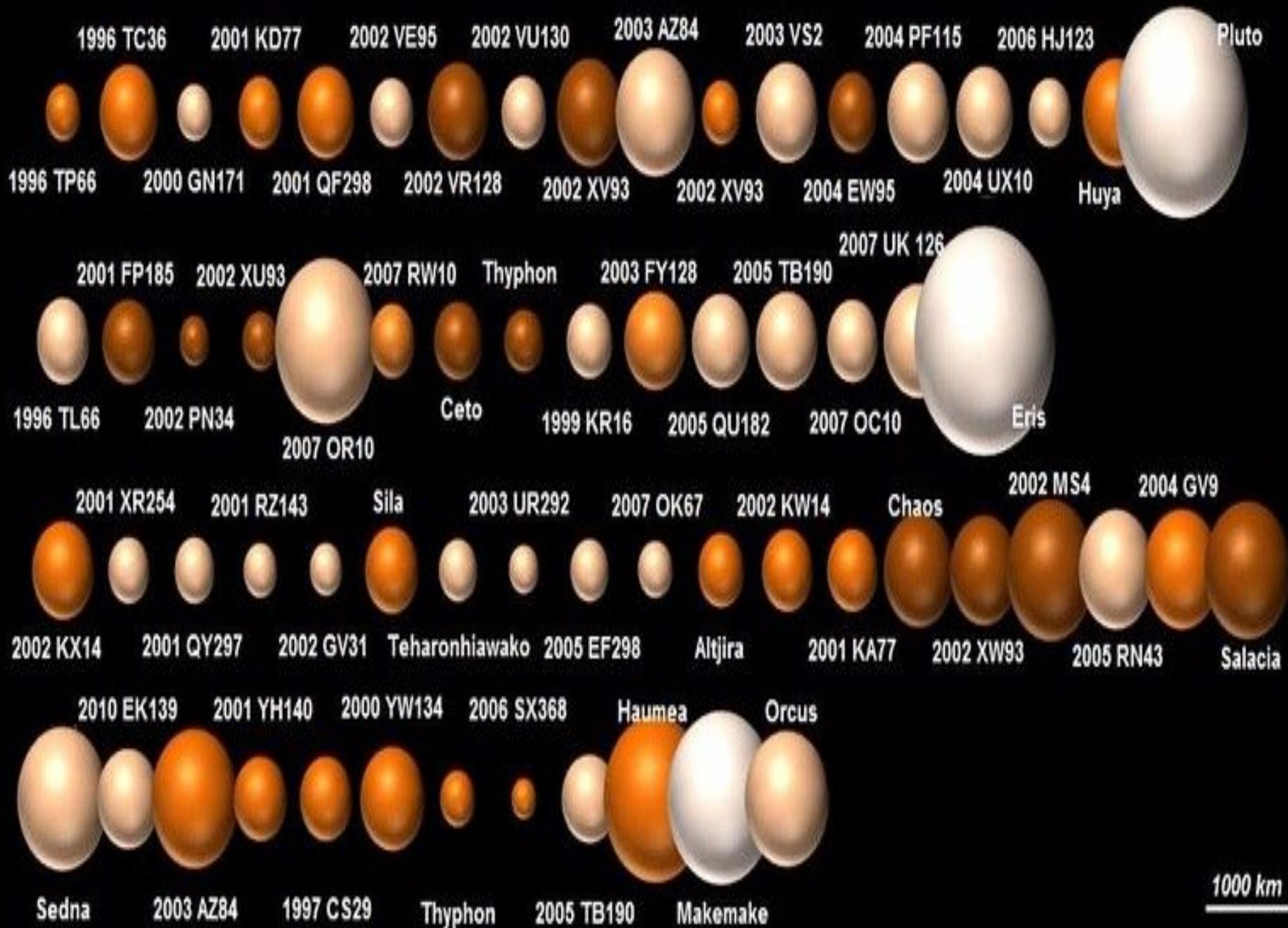






Середина 20 века





1000 km



Planet X



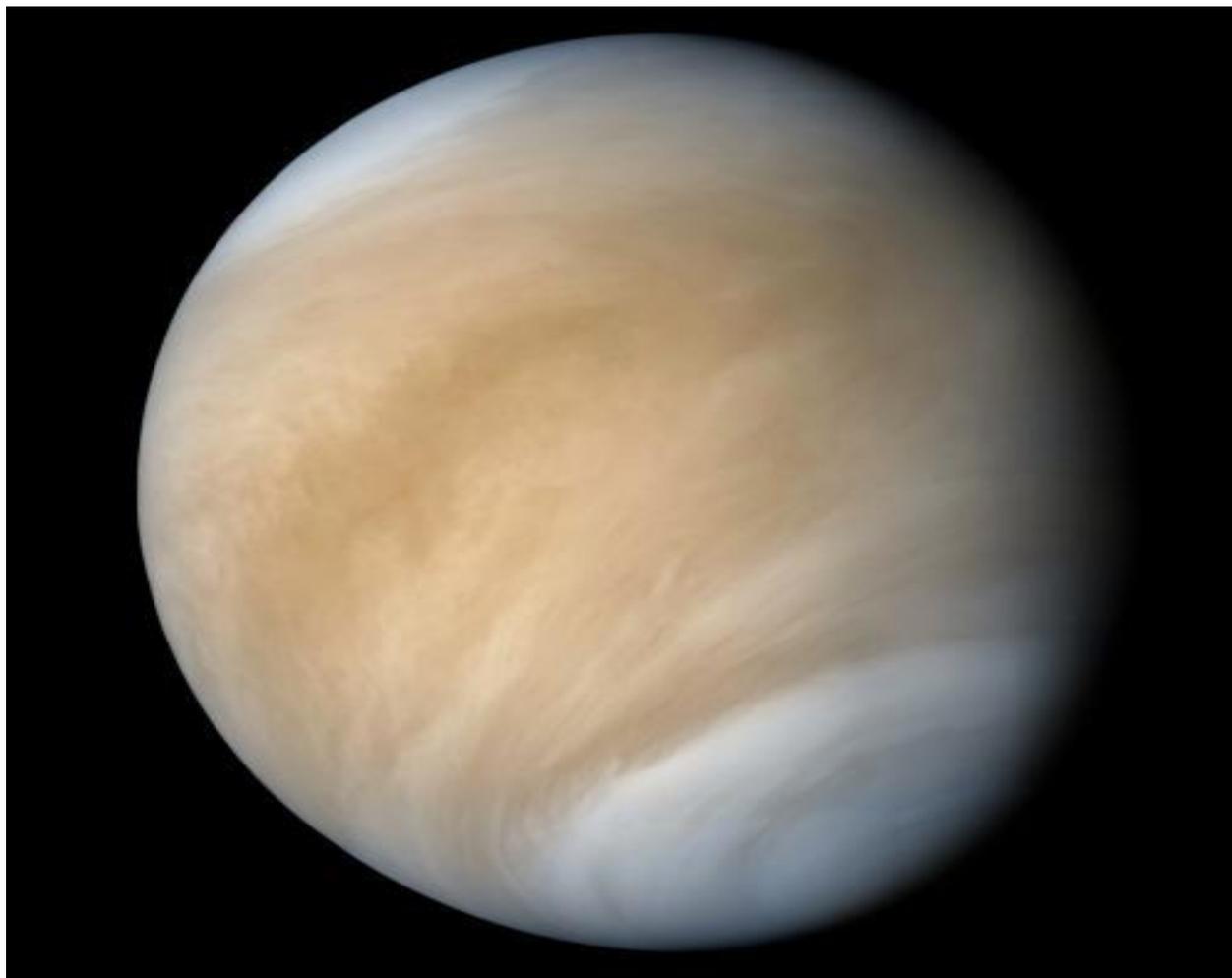
Earth

Луна





Венера

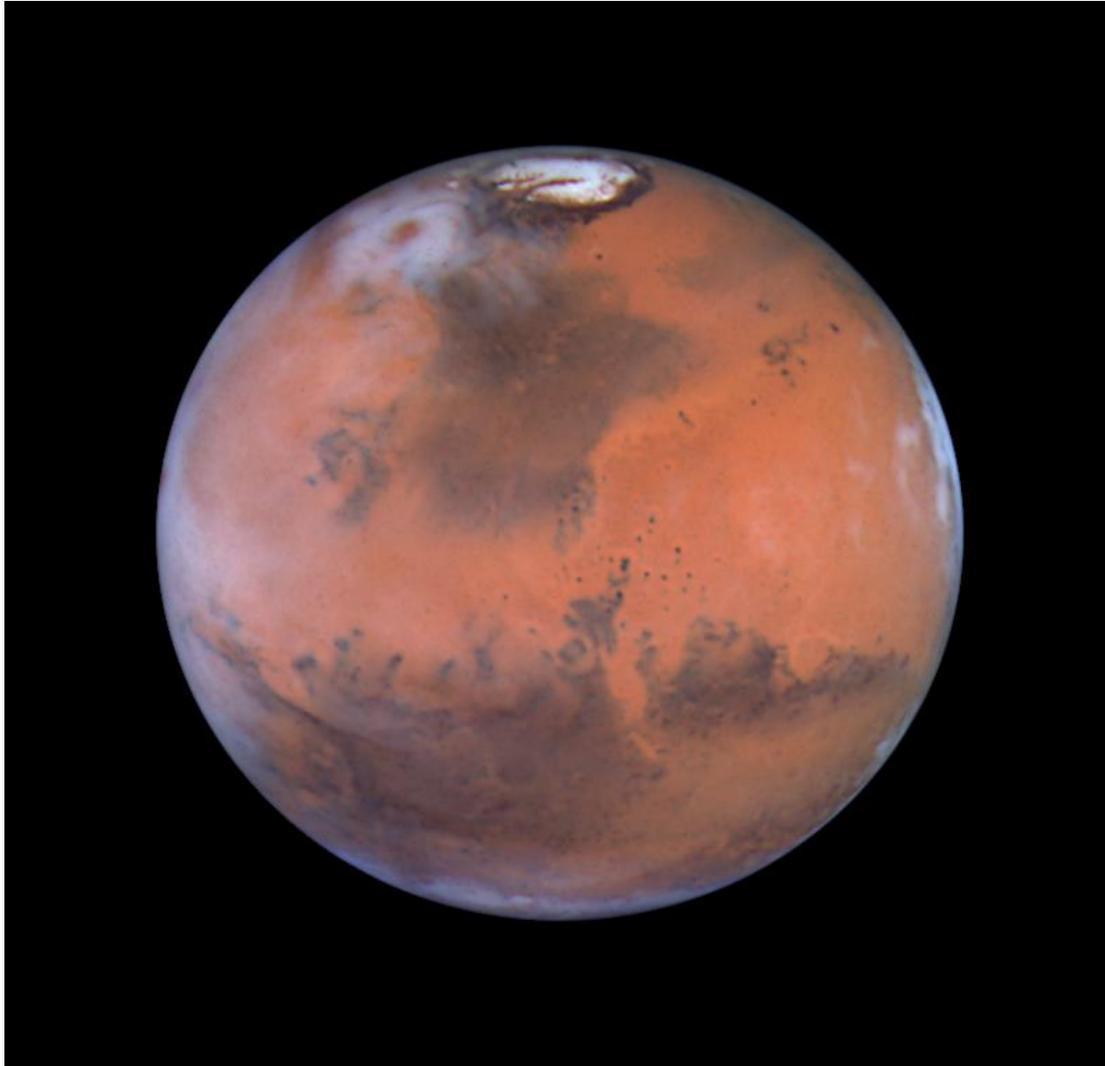


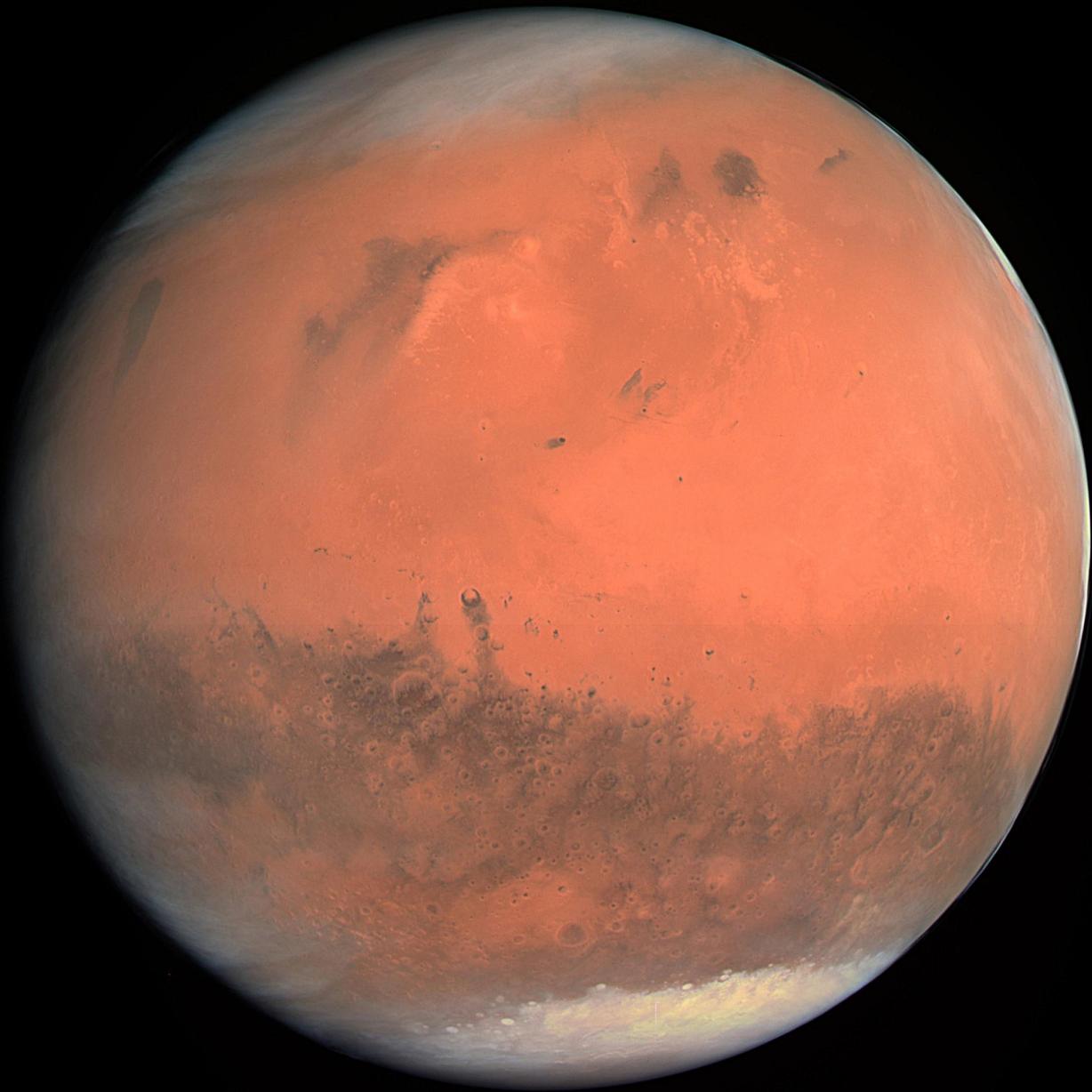


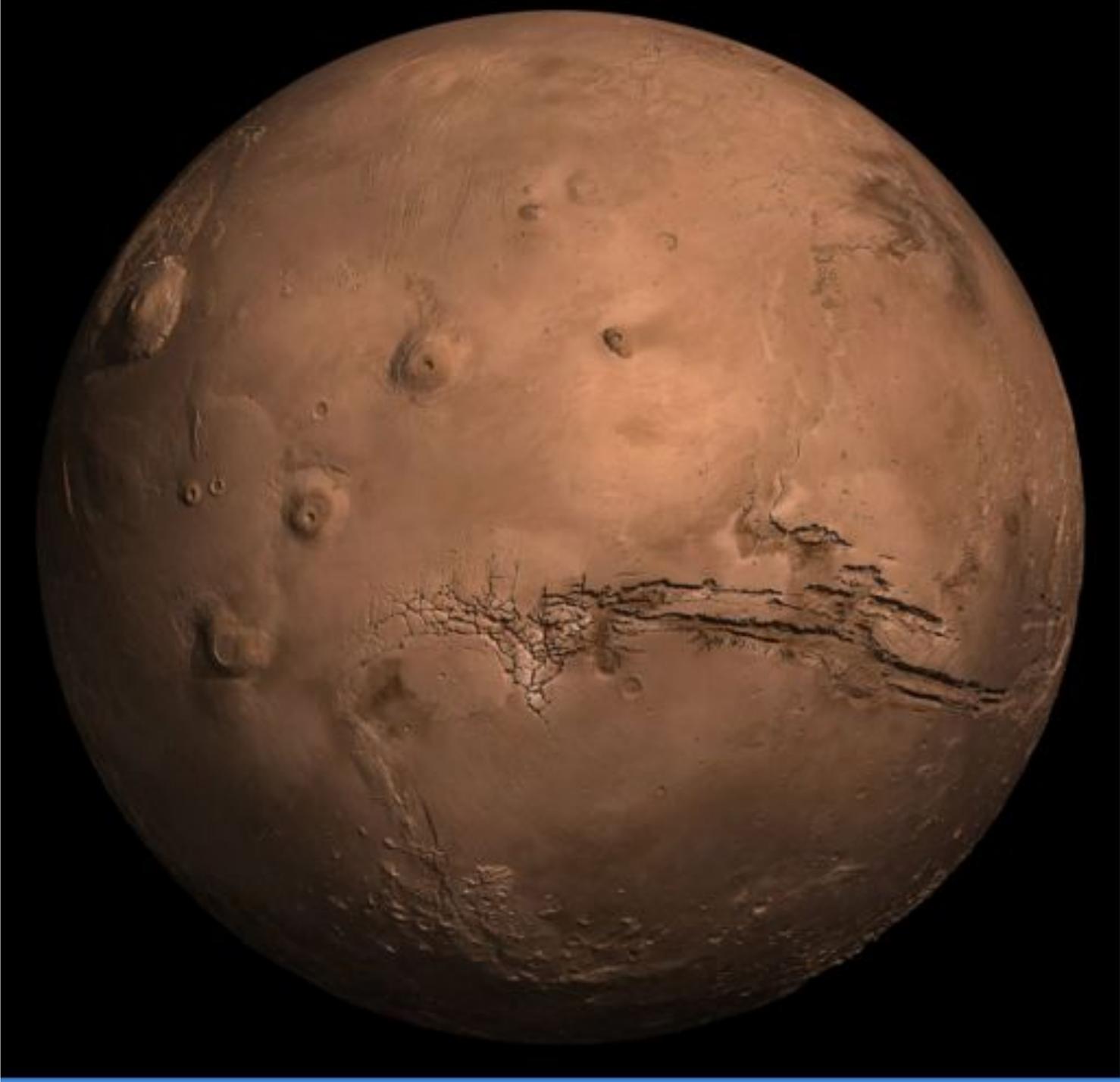
Don P. Mitchell

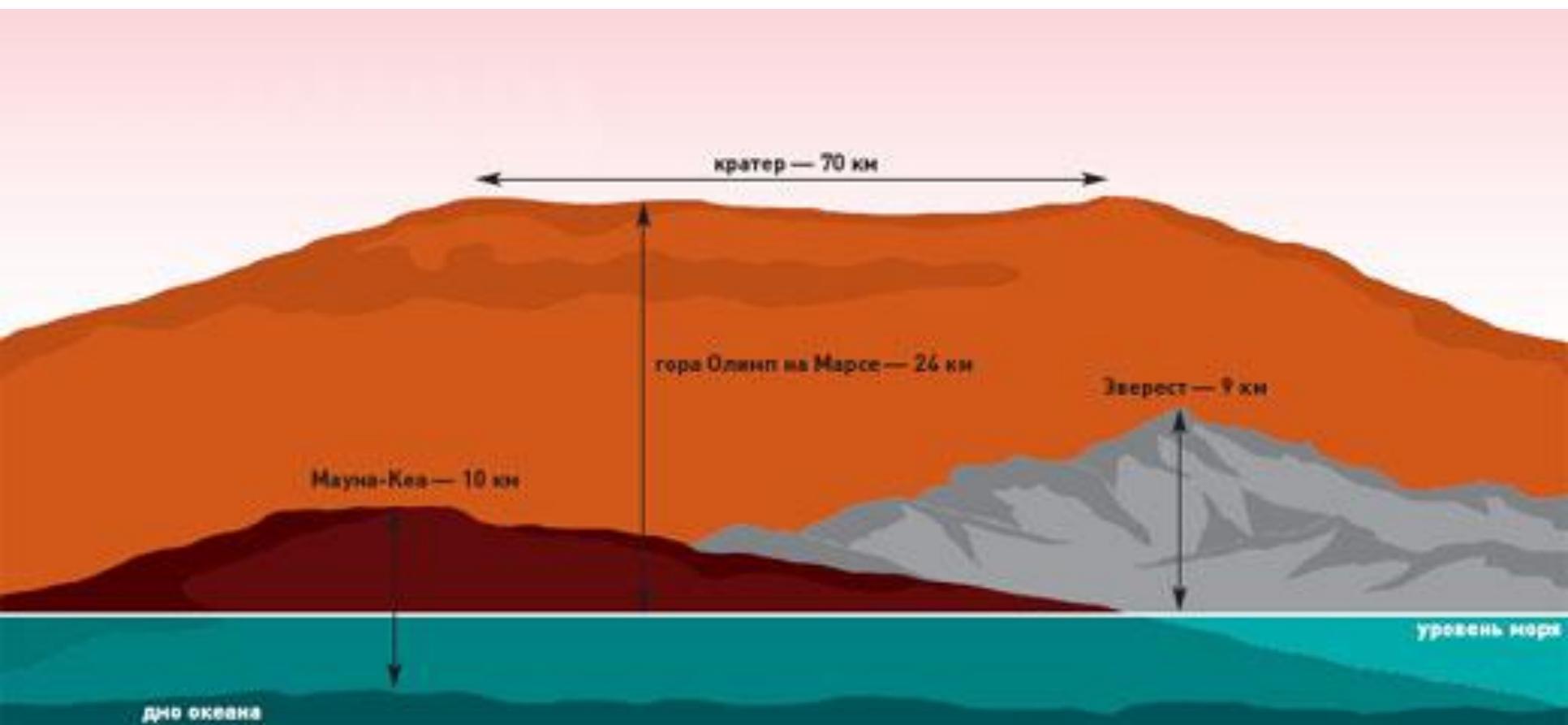


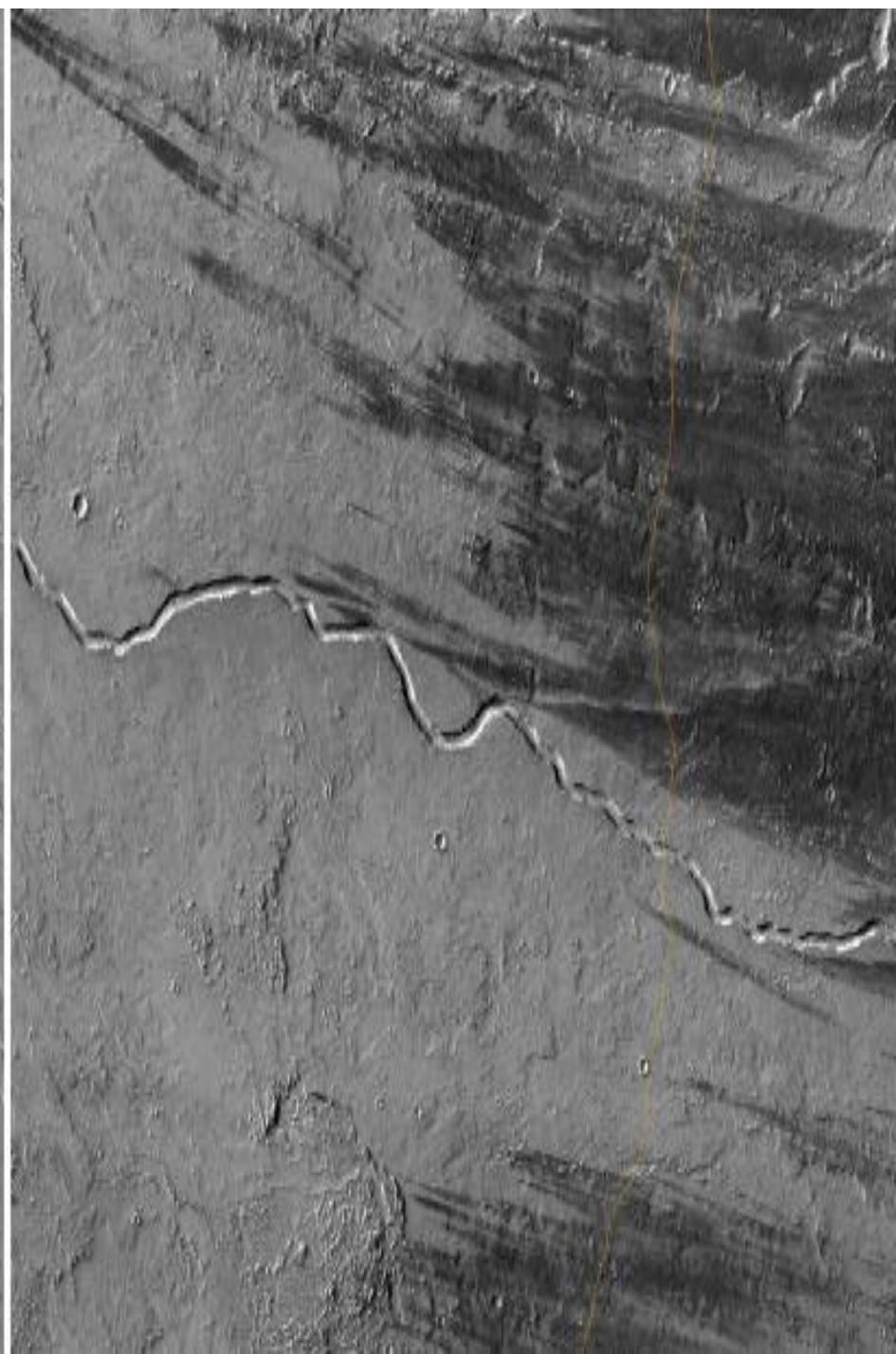
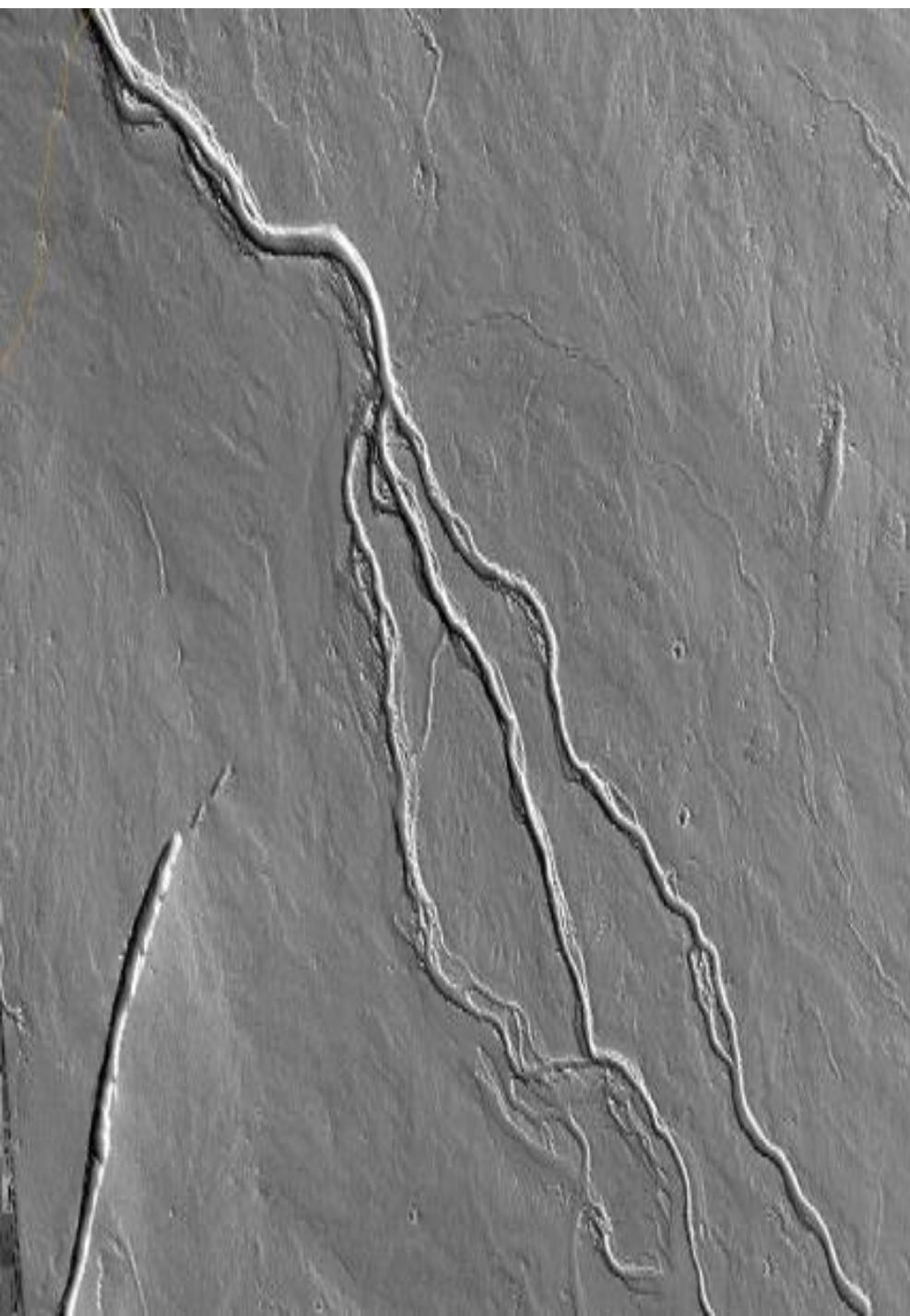
Mapc

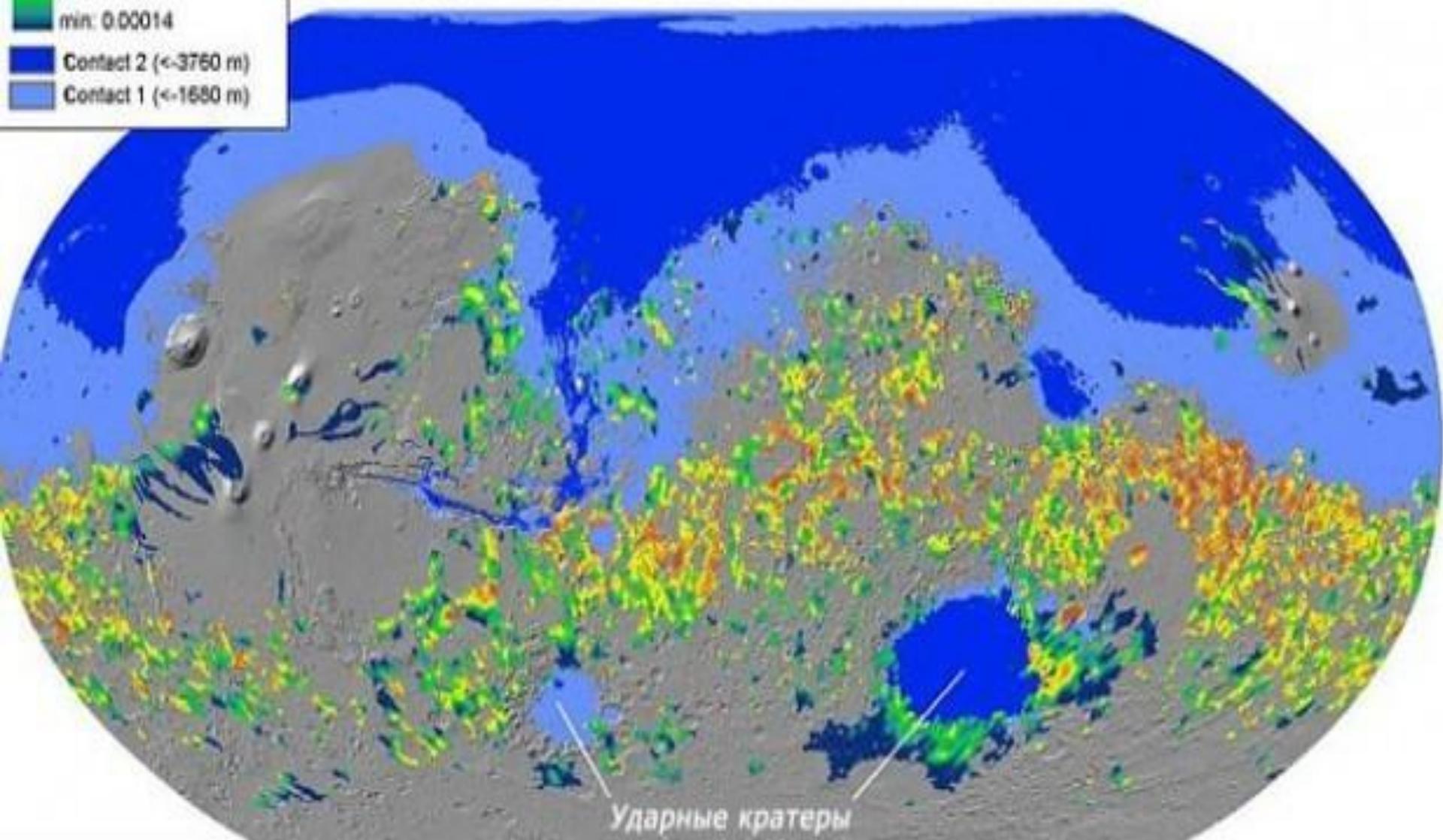
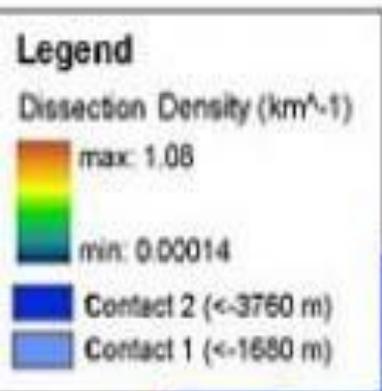




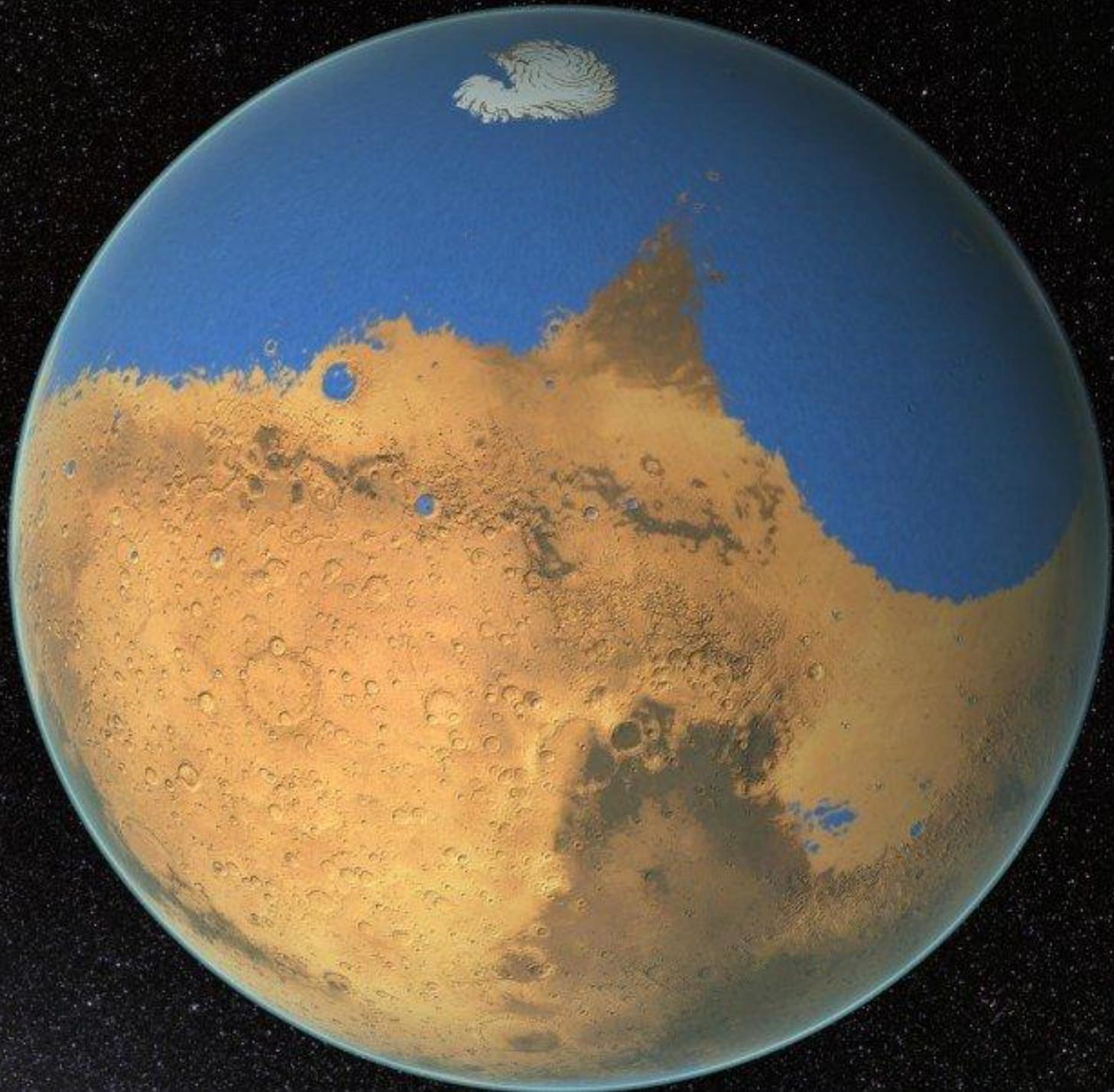


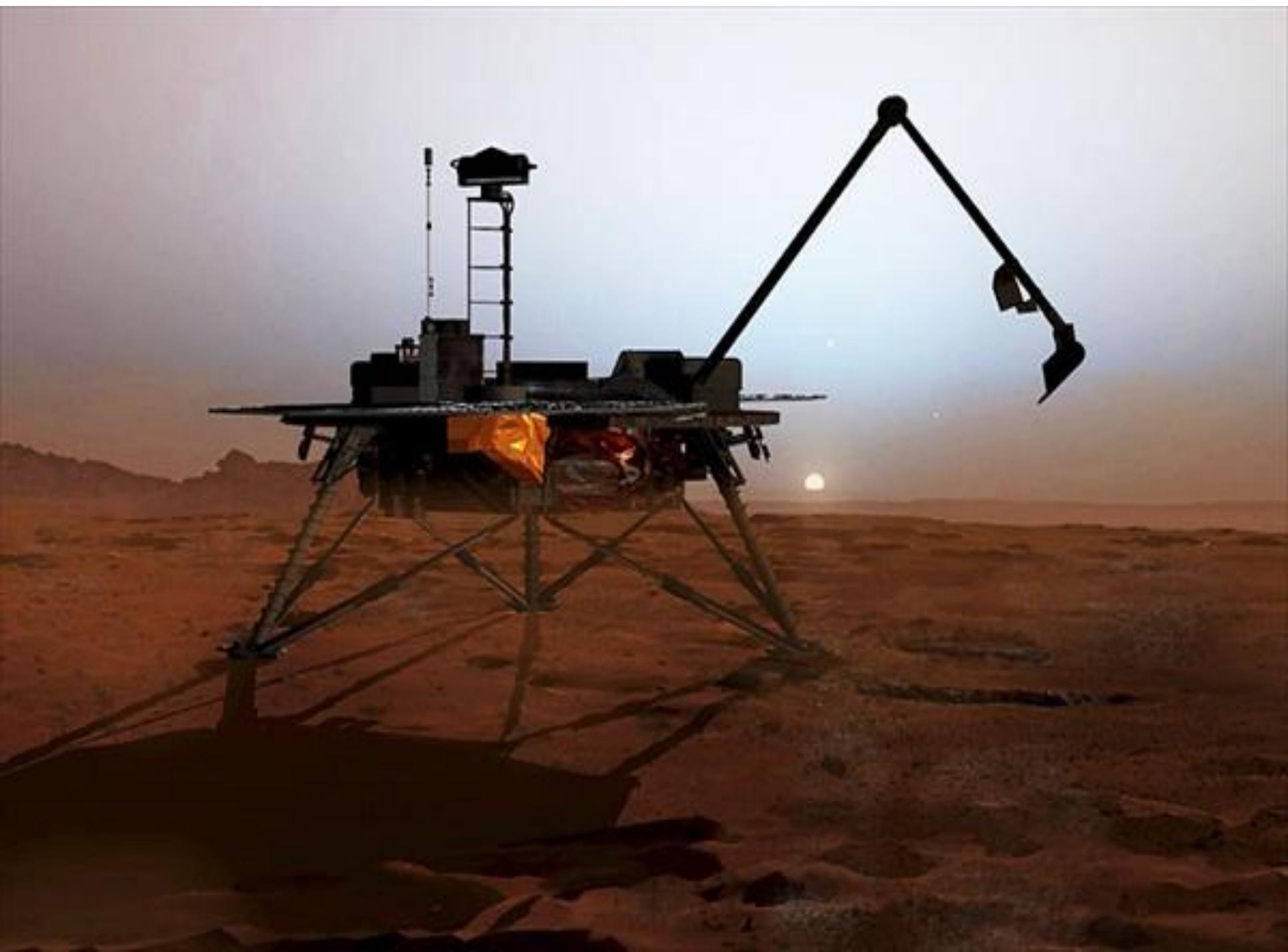






Ударные кратеры





Sol 20

Sol 24

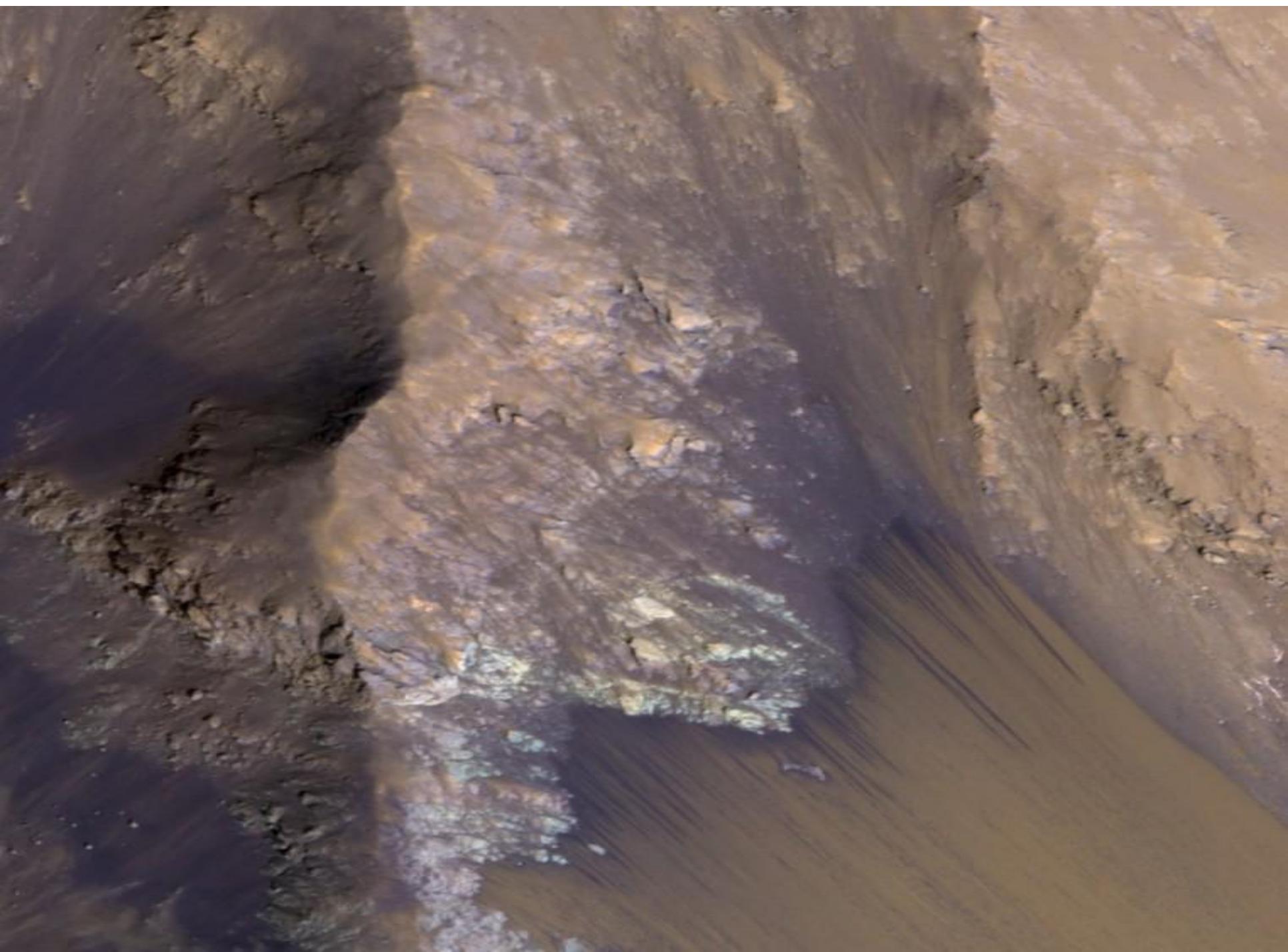


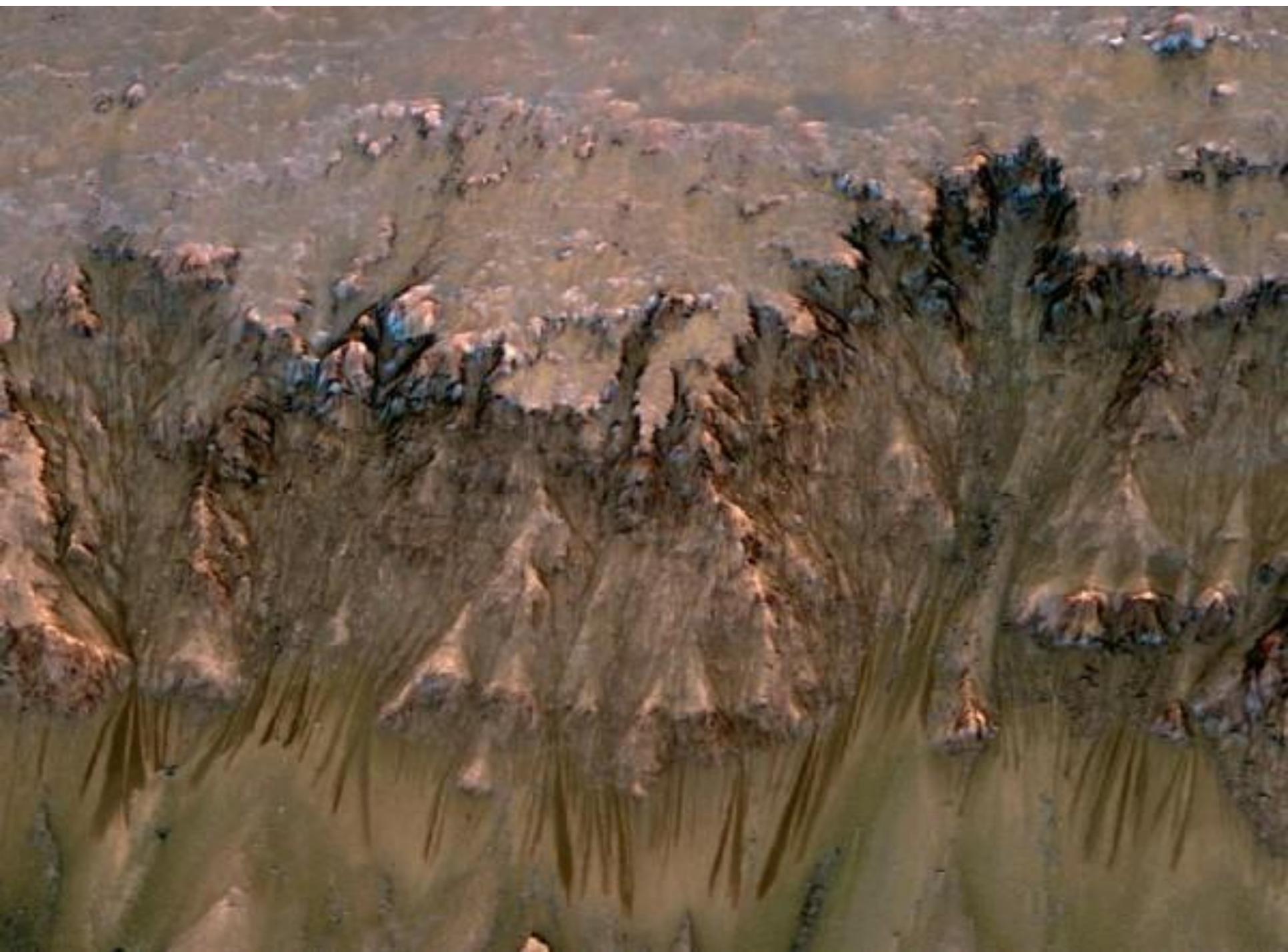
Oct. 18, 2008

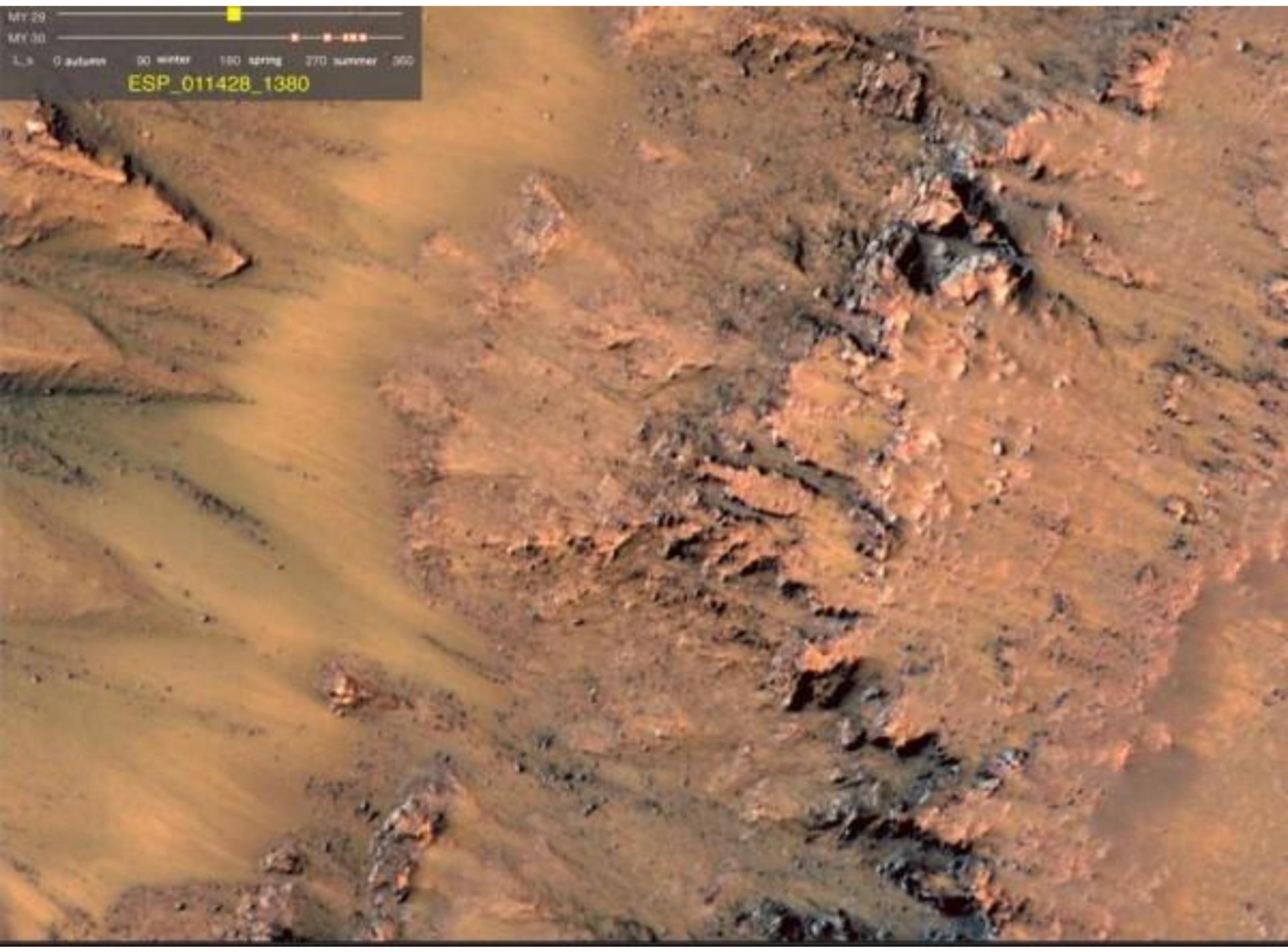
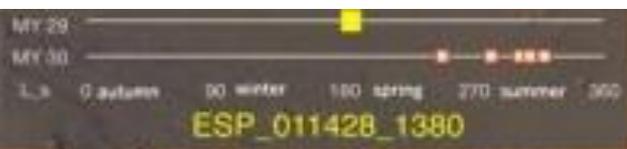


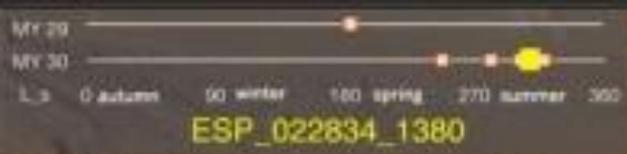
Jan. 14, 2009

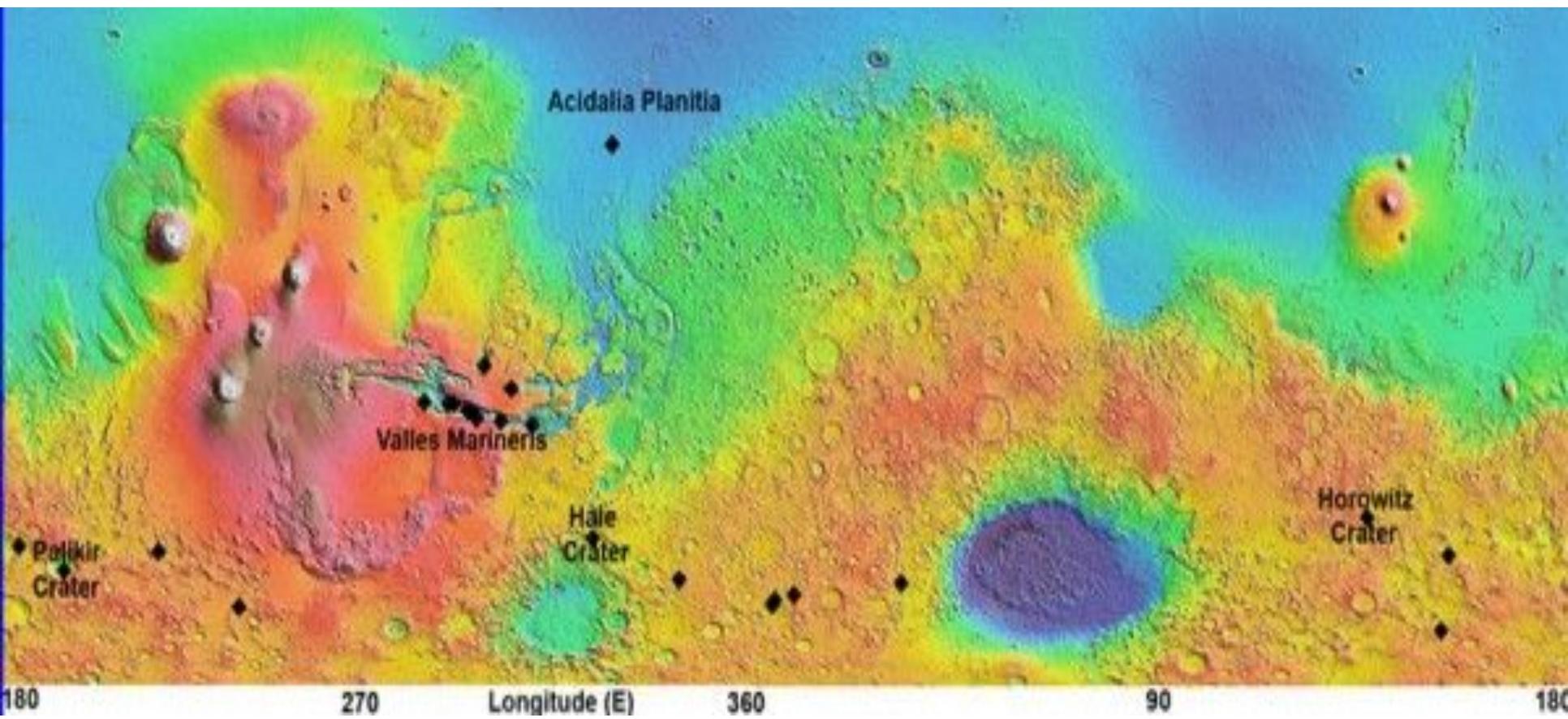


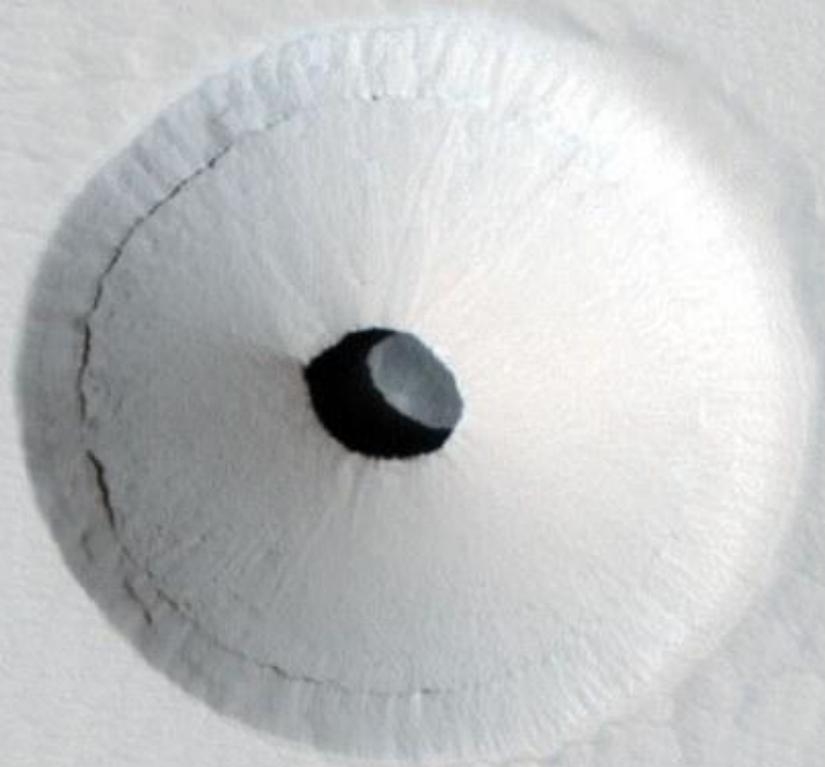






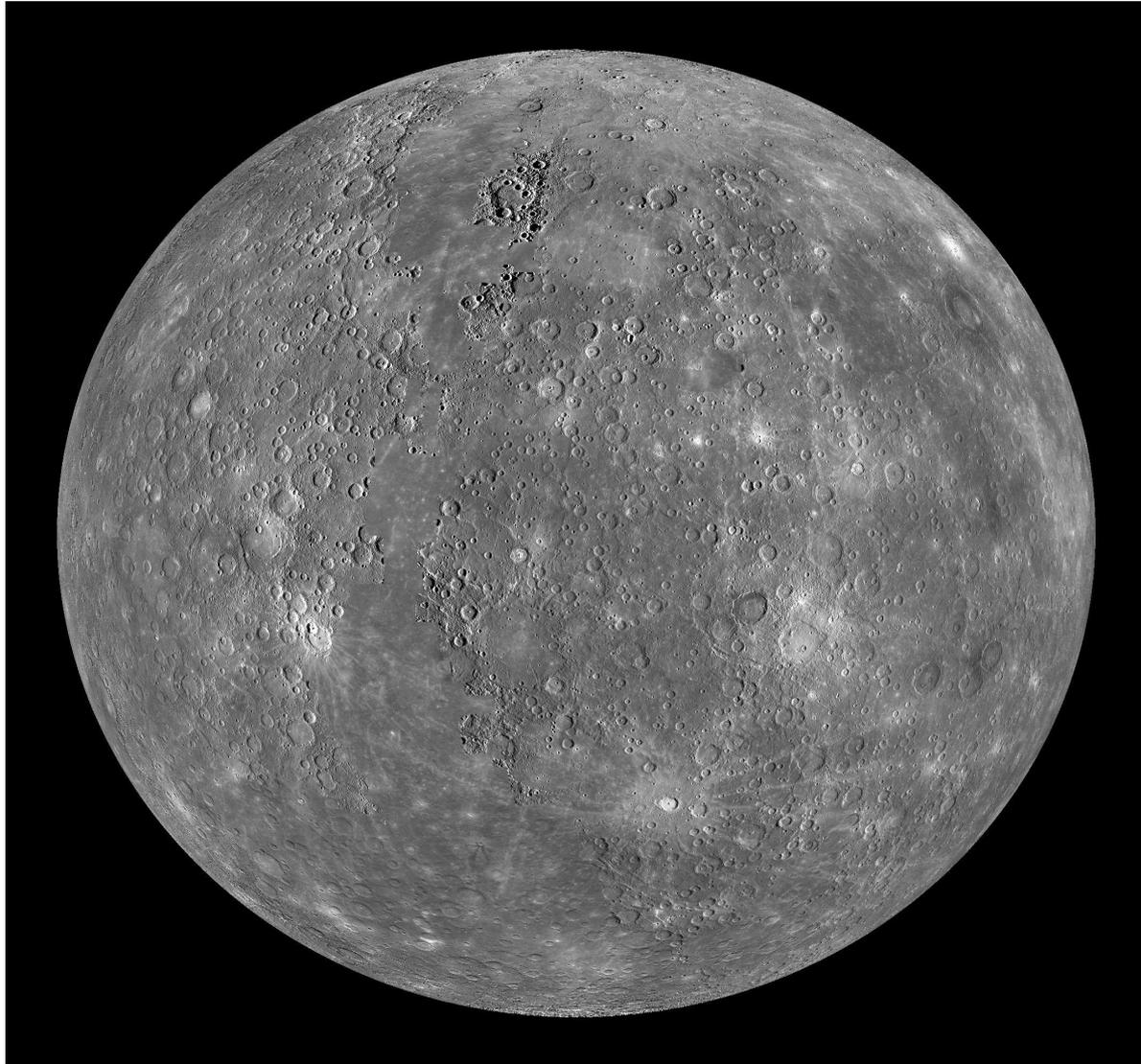


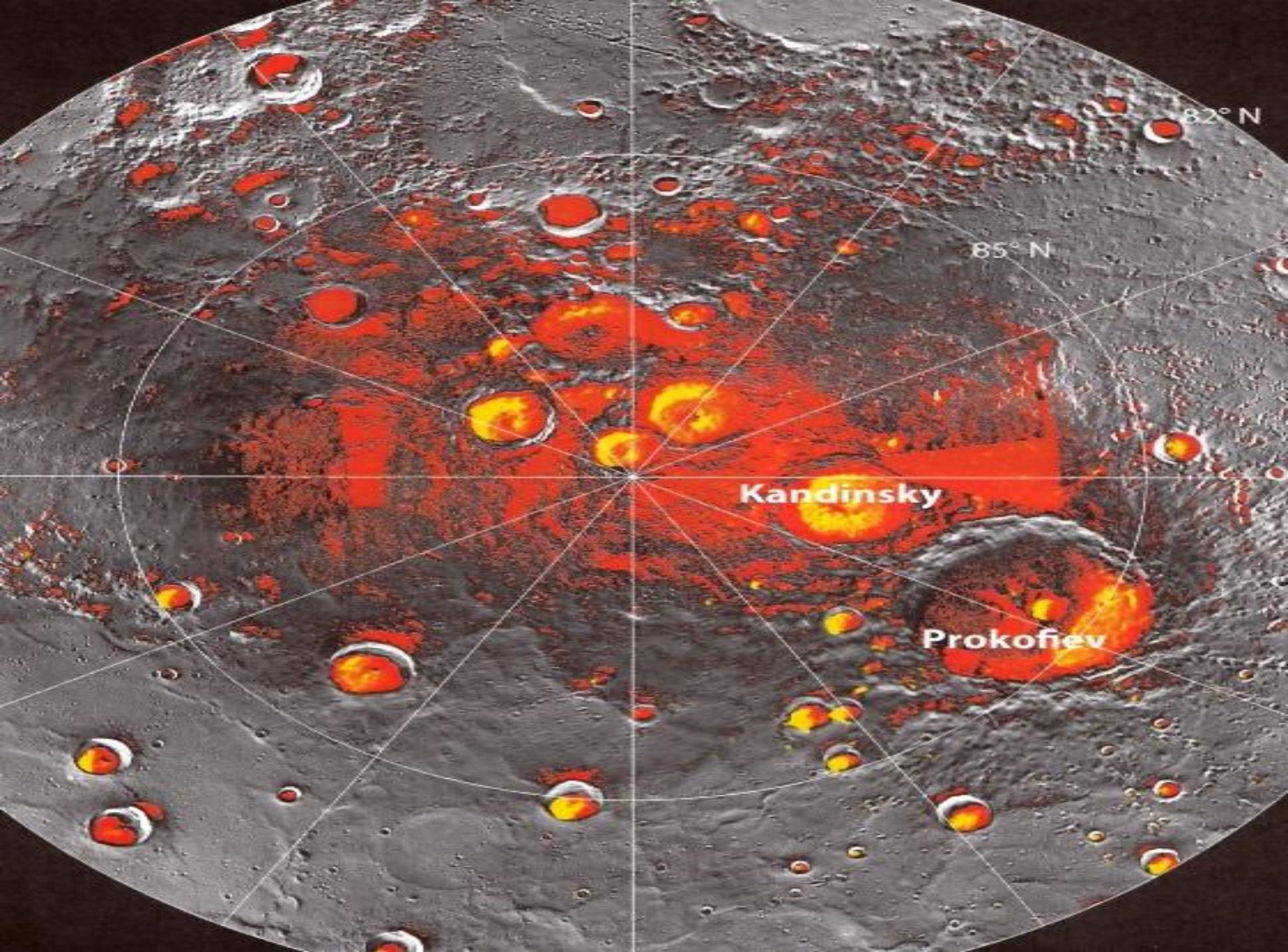






Меркурий





82° N

85° N

Kandinsky

Prokofiev

Юпитер



Европа

Ио



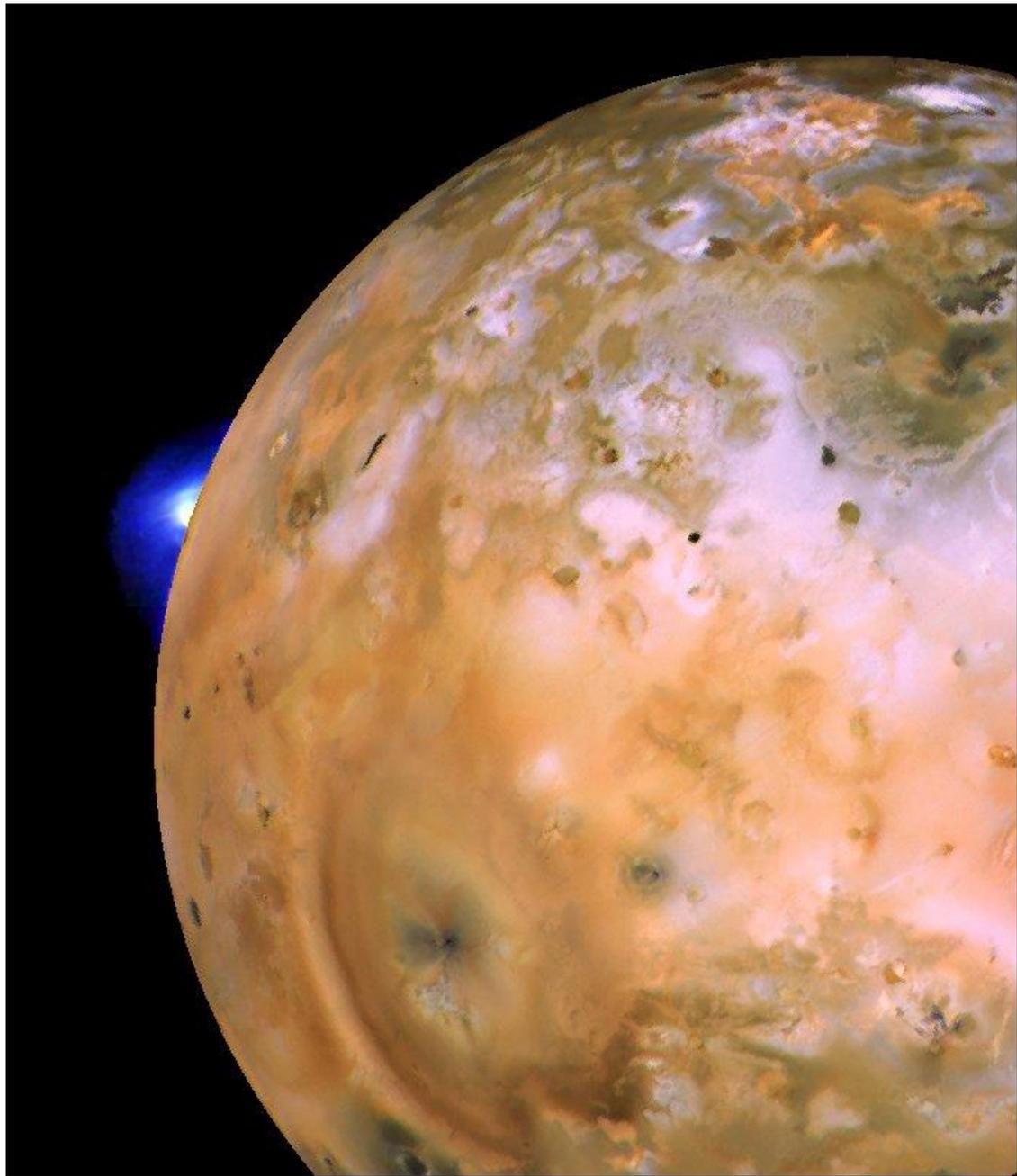
Луна

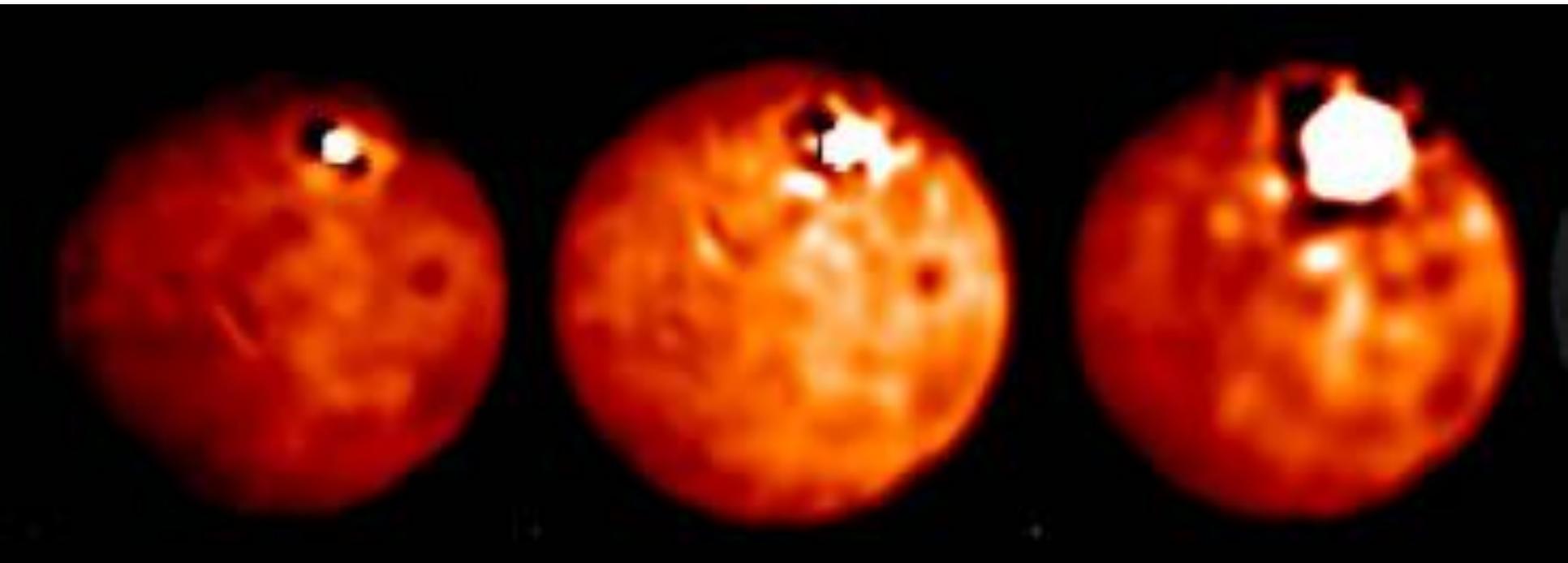


Каллисто



Ганимед





08-29

08-30

09-01

09-02

09-03

09-04

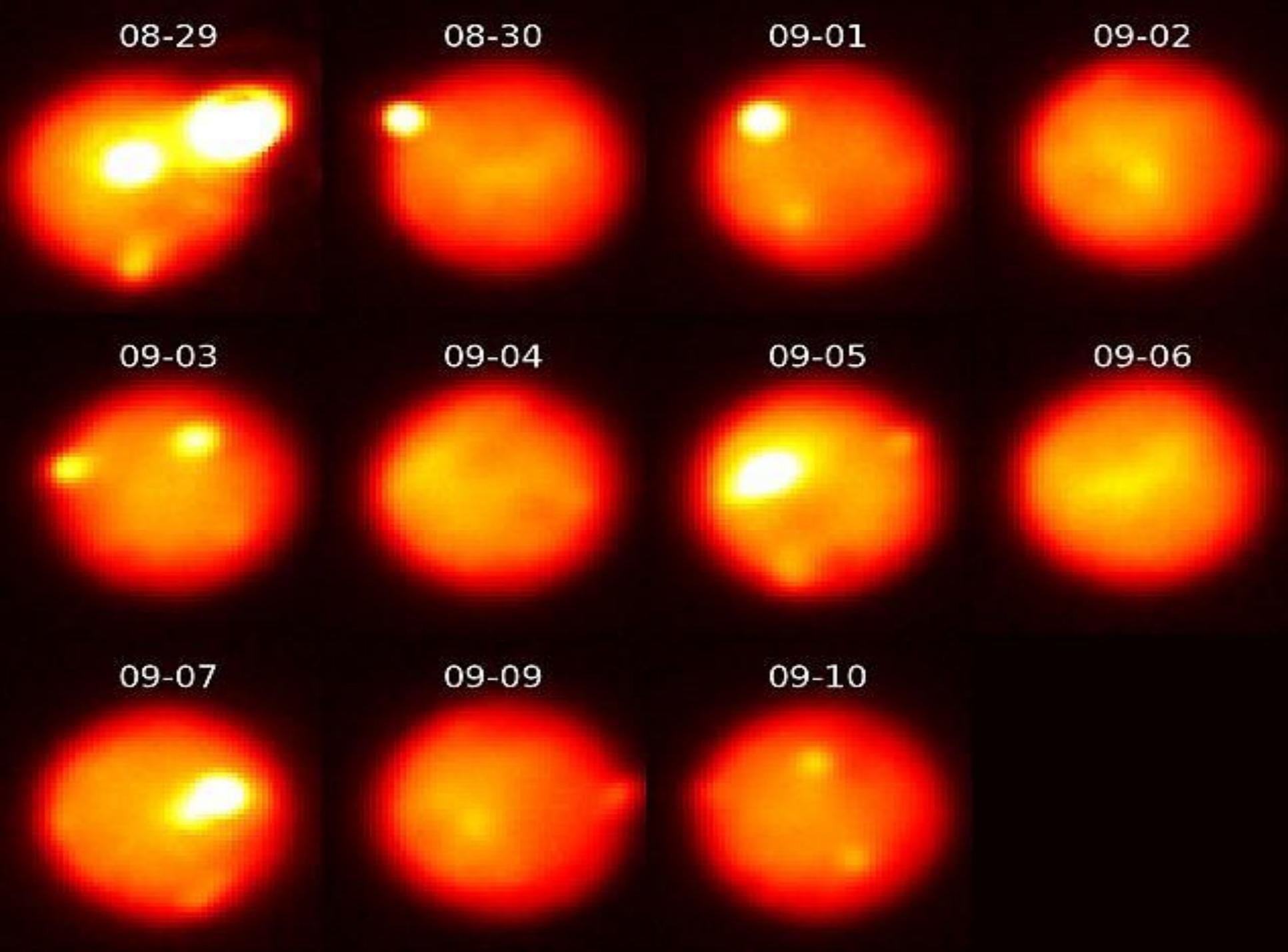
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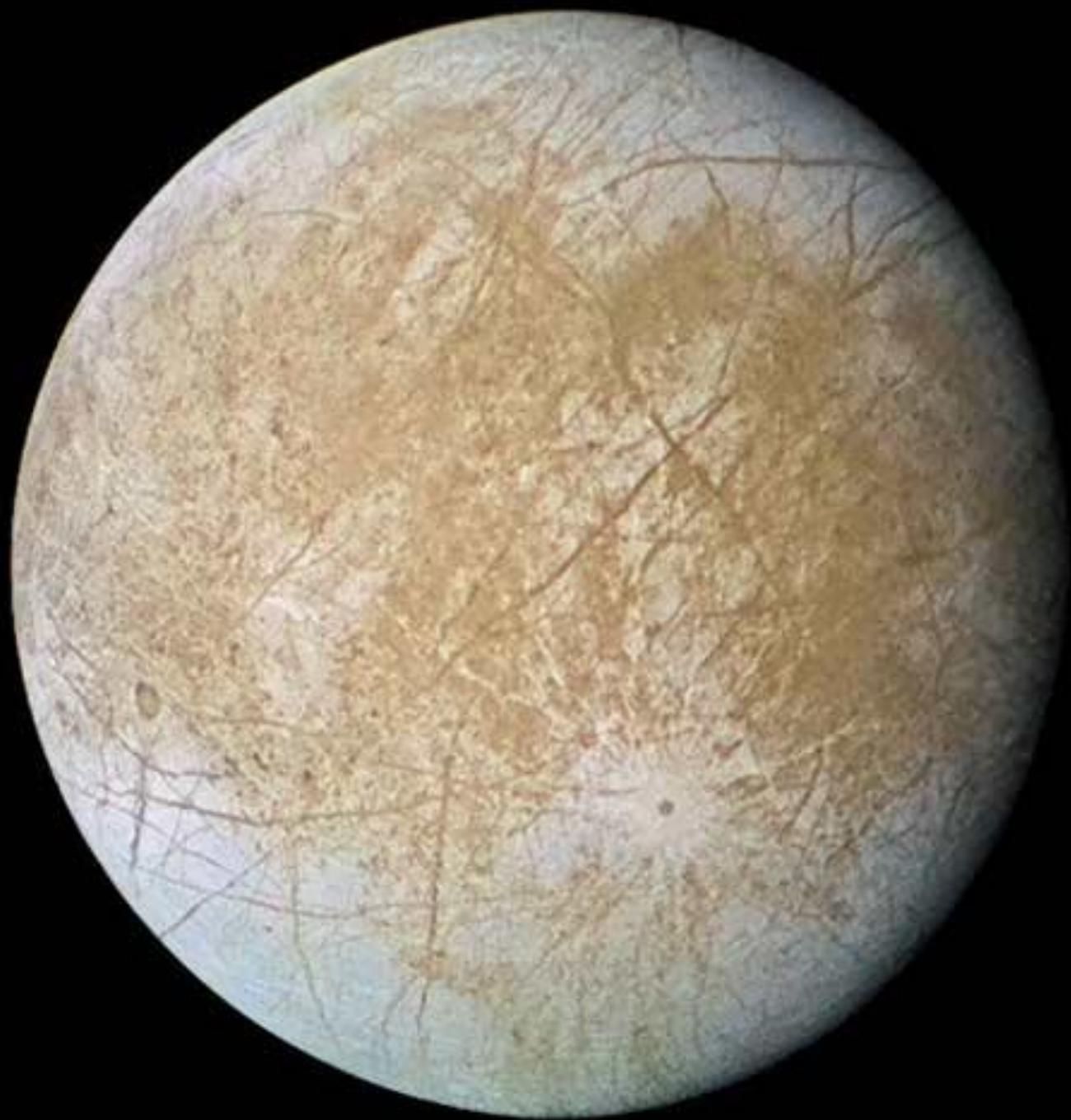
09-06

09-07

09-09

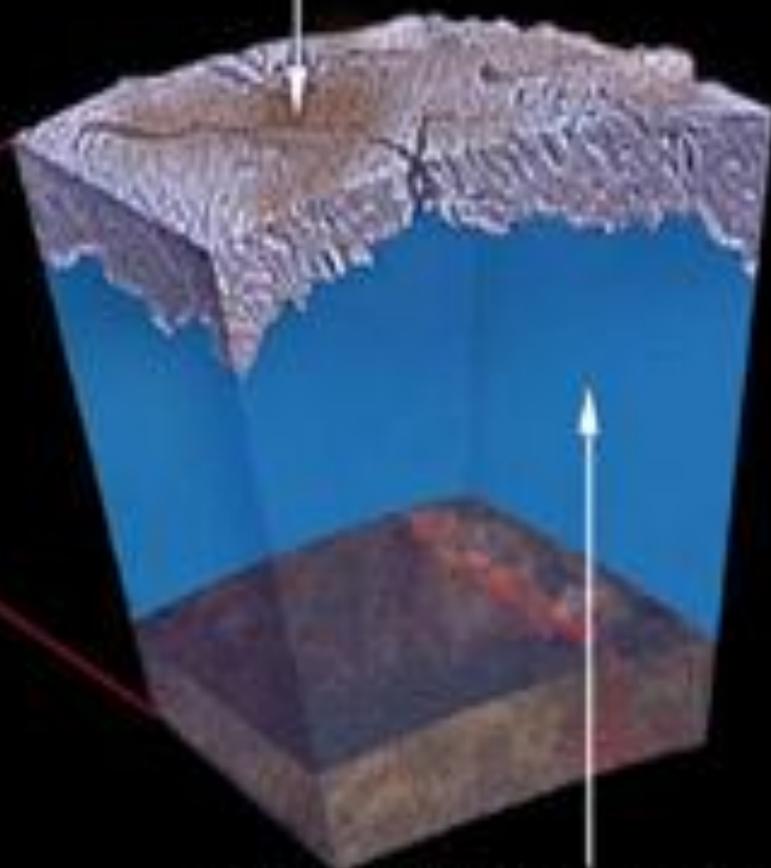
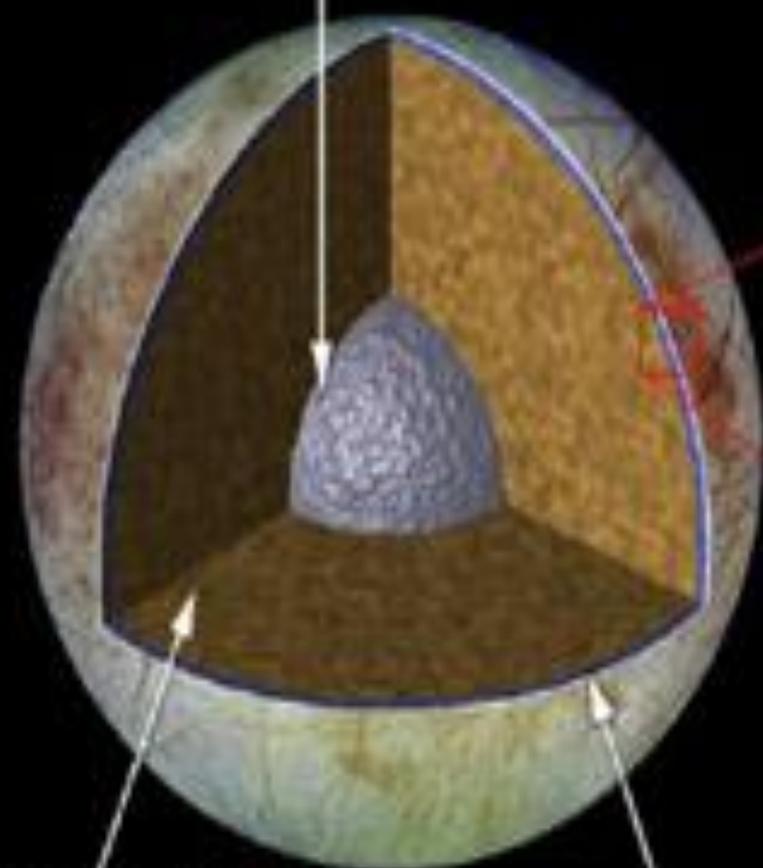
09-10





Металлическое ядро

Ледяное покрытие

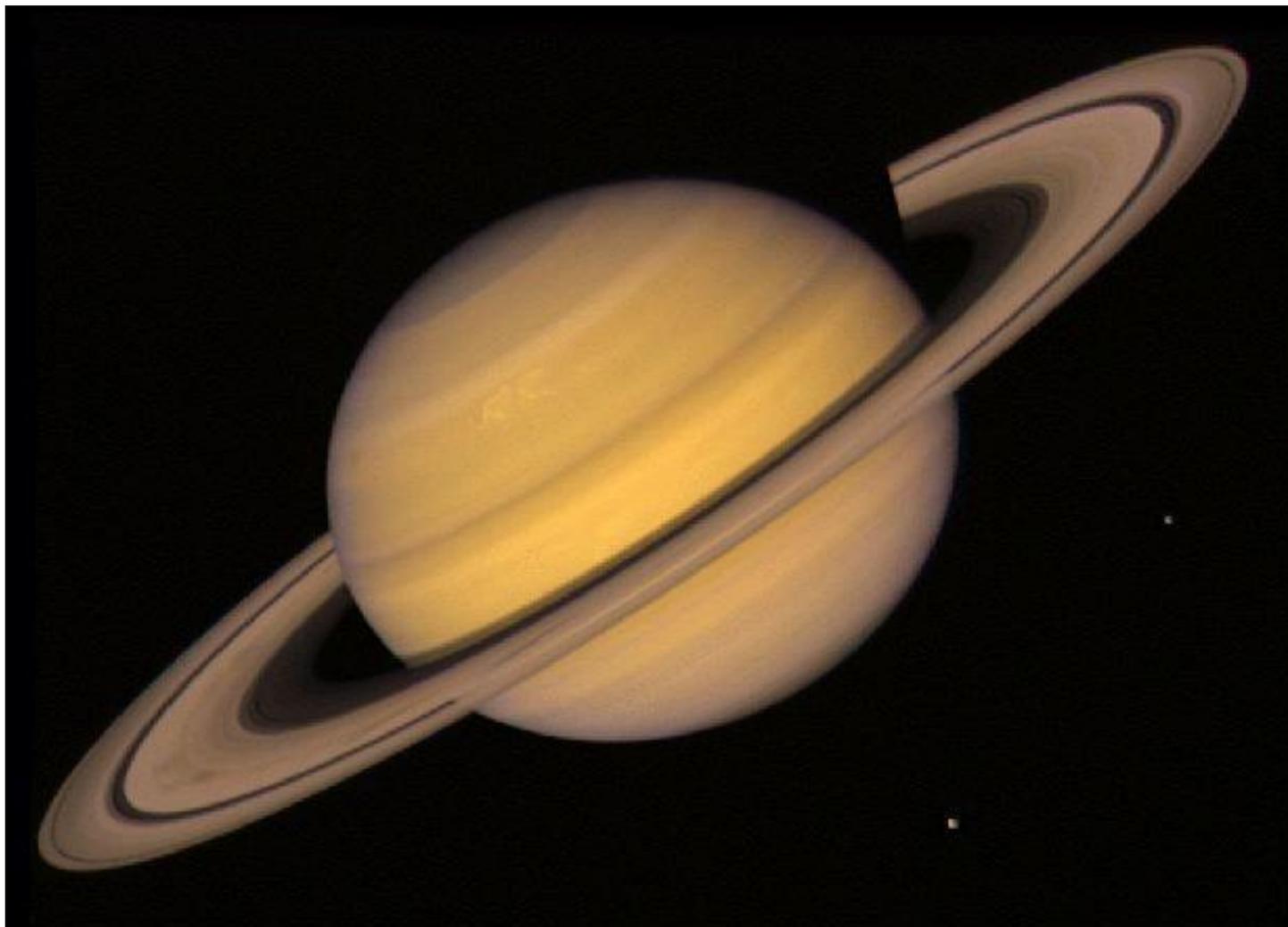


Каменные недра

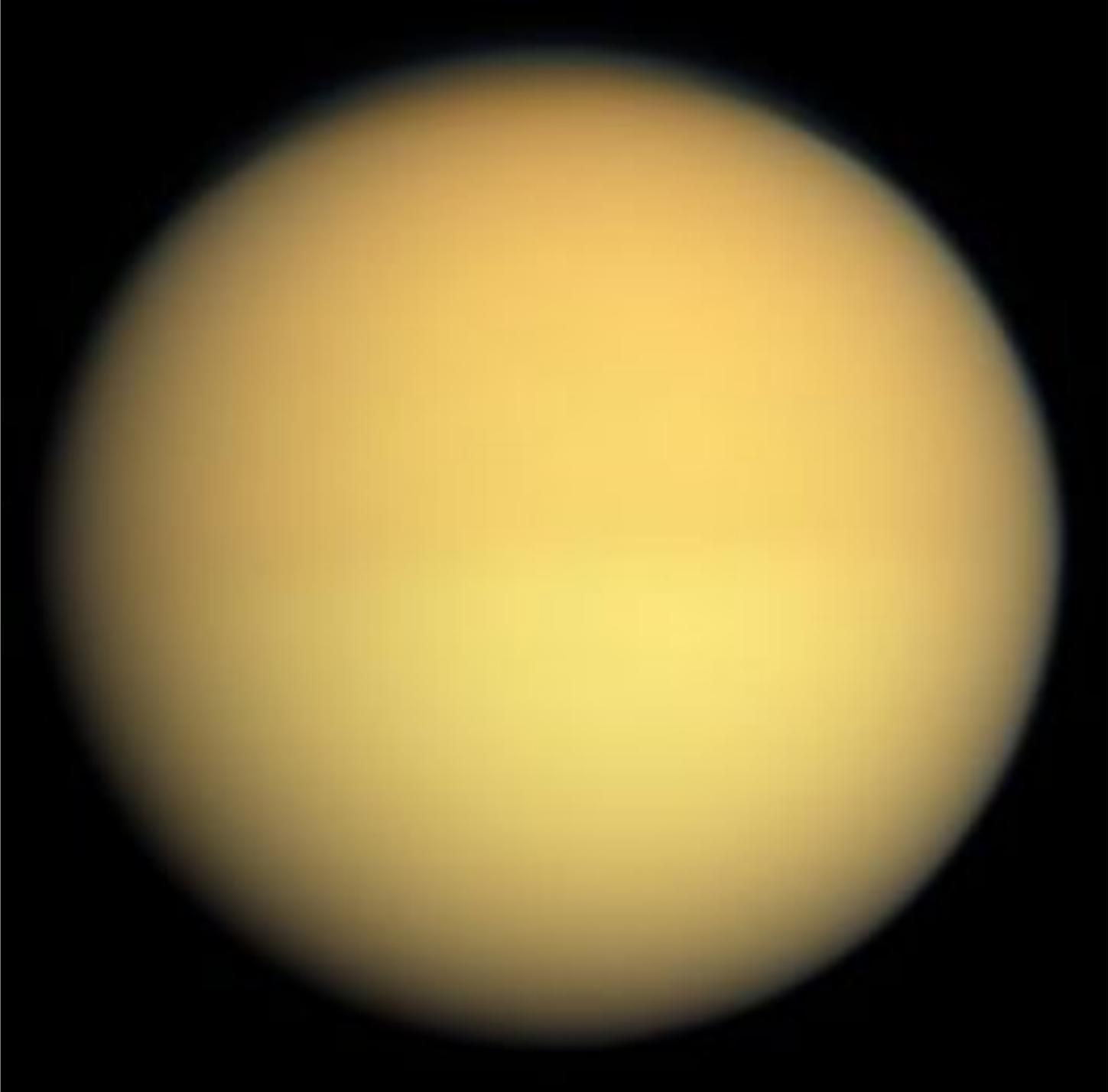
Слой жидкой воды

Жидкий океан ниже льда

Сатурн

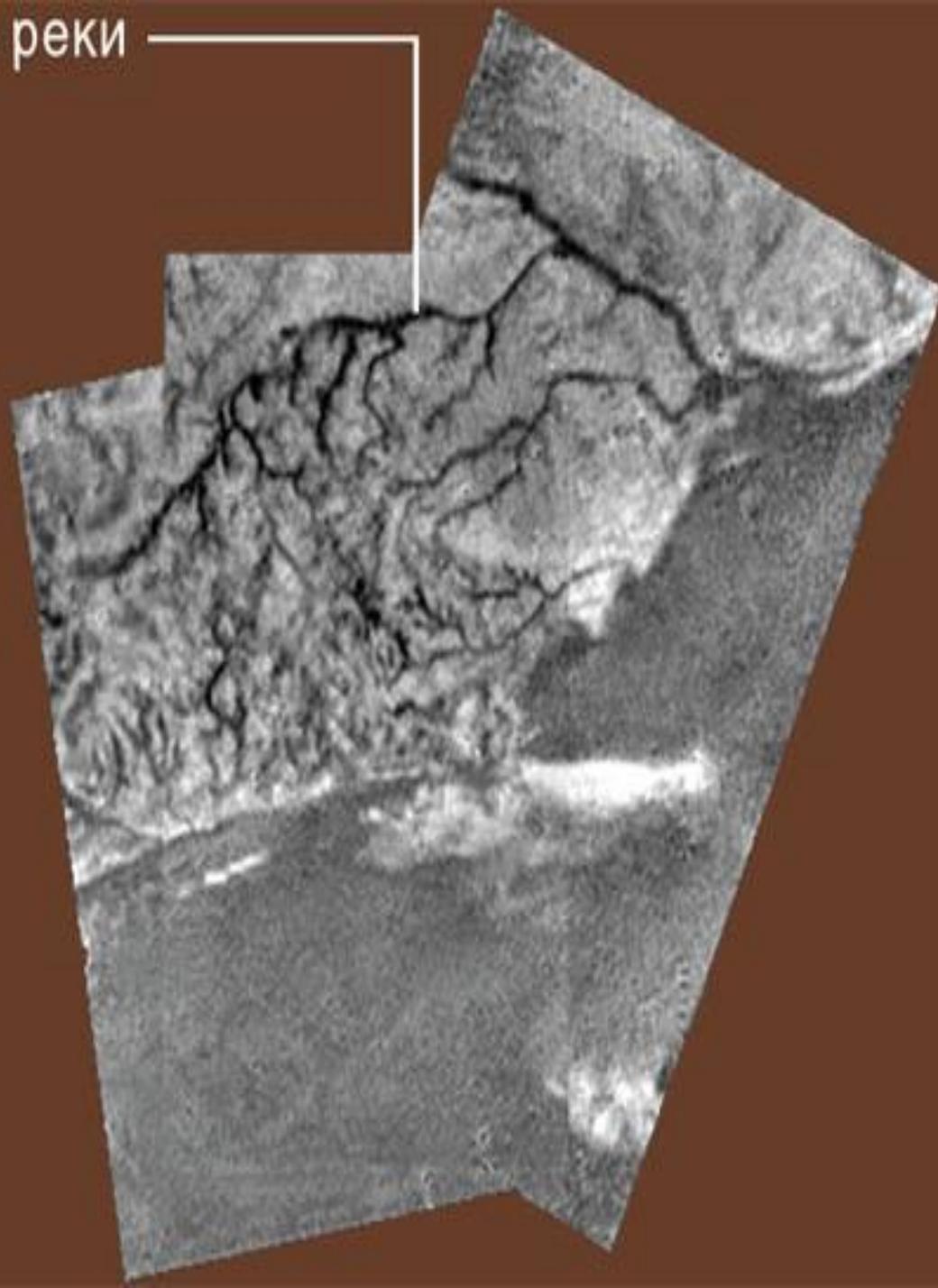


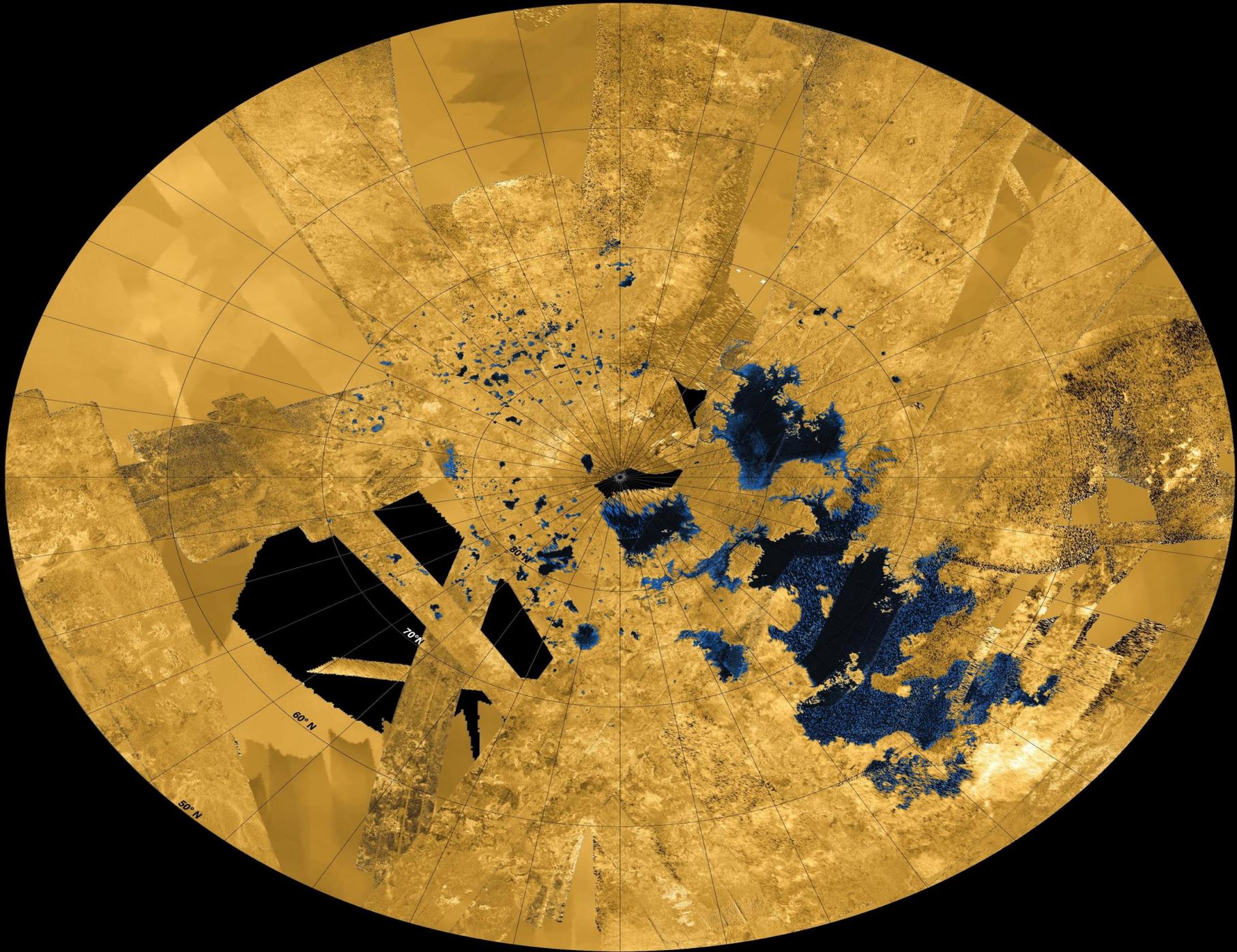


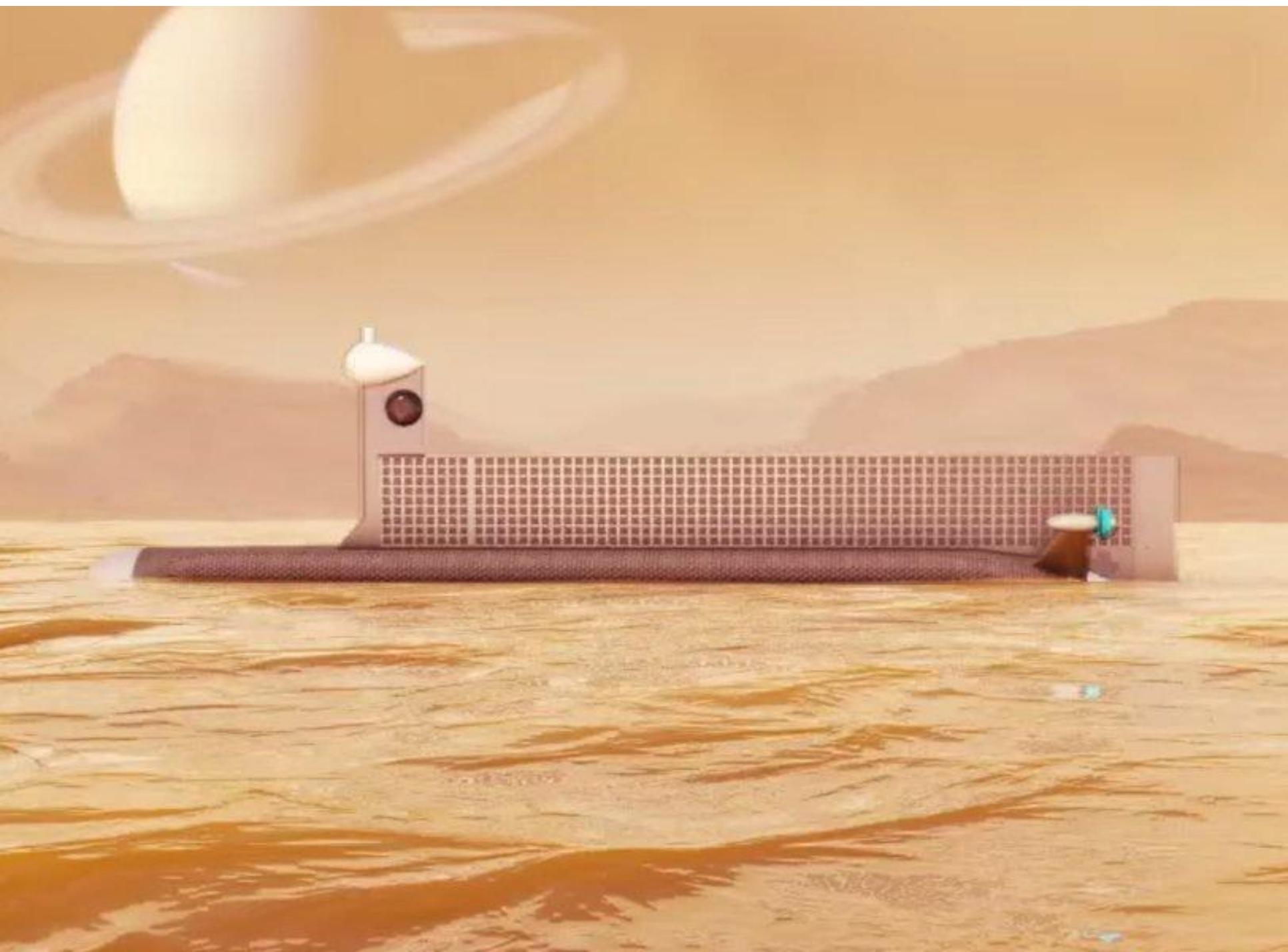




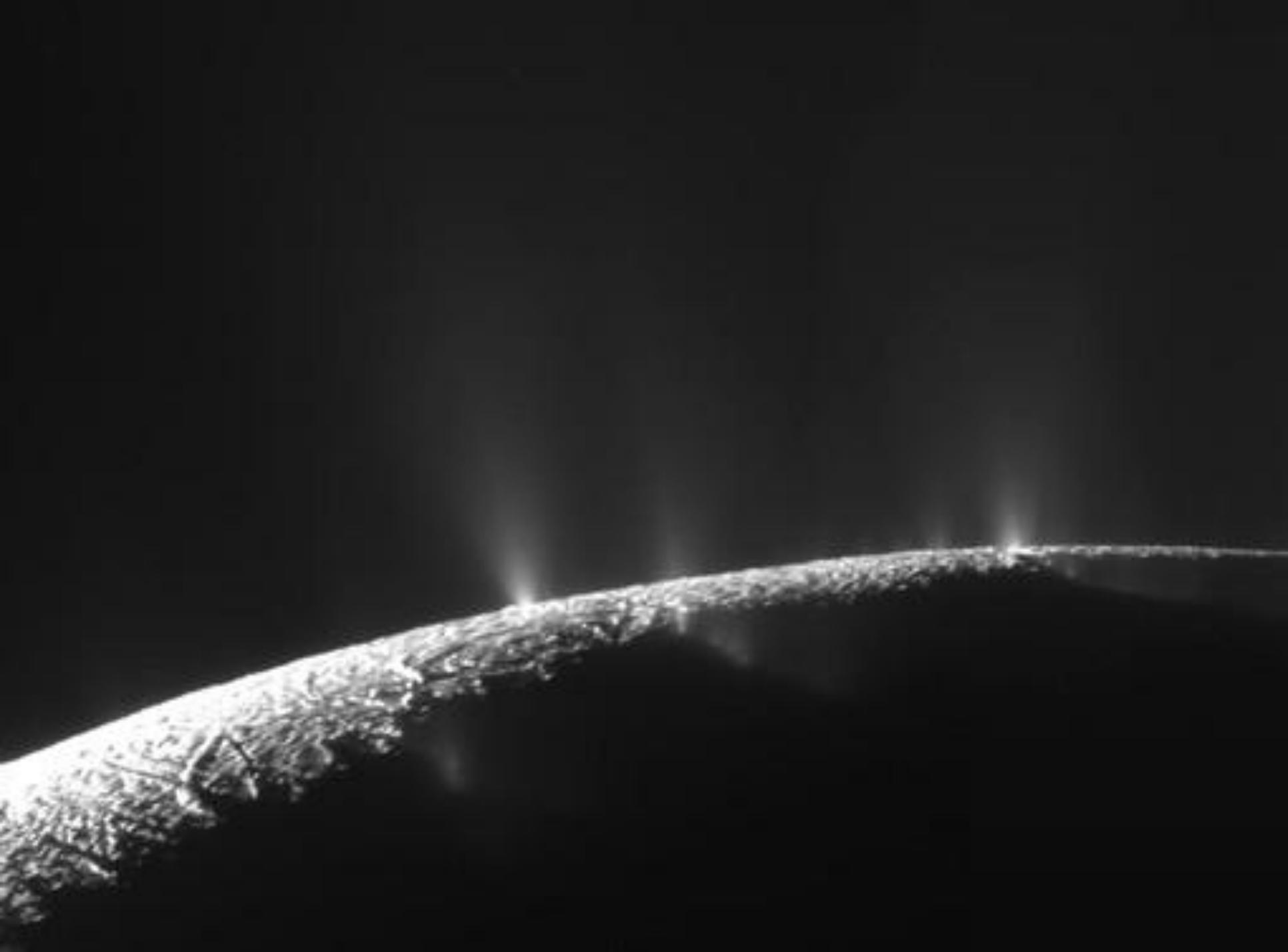
Русло реки

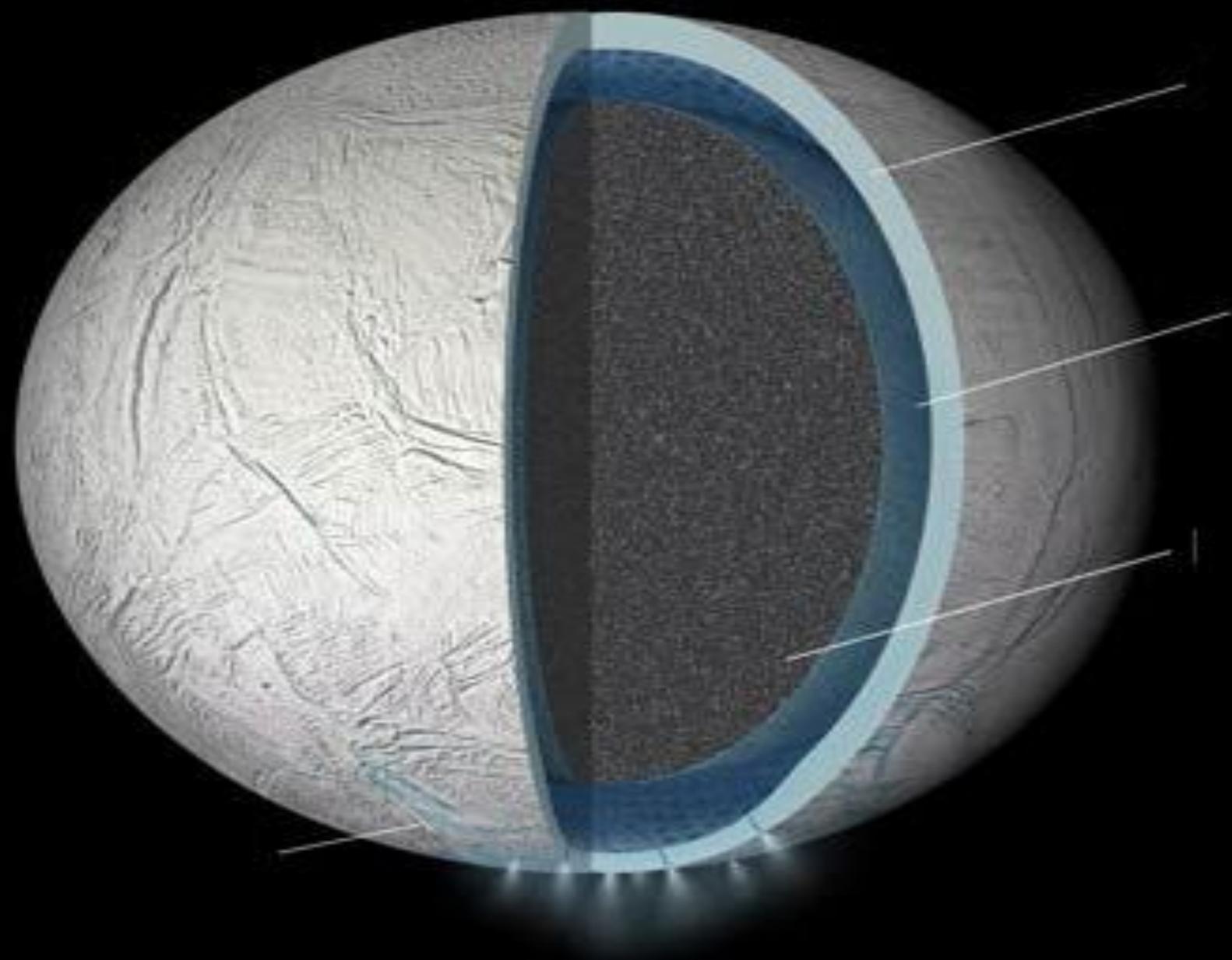


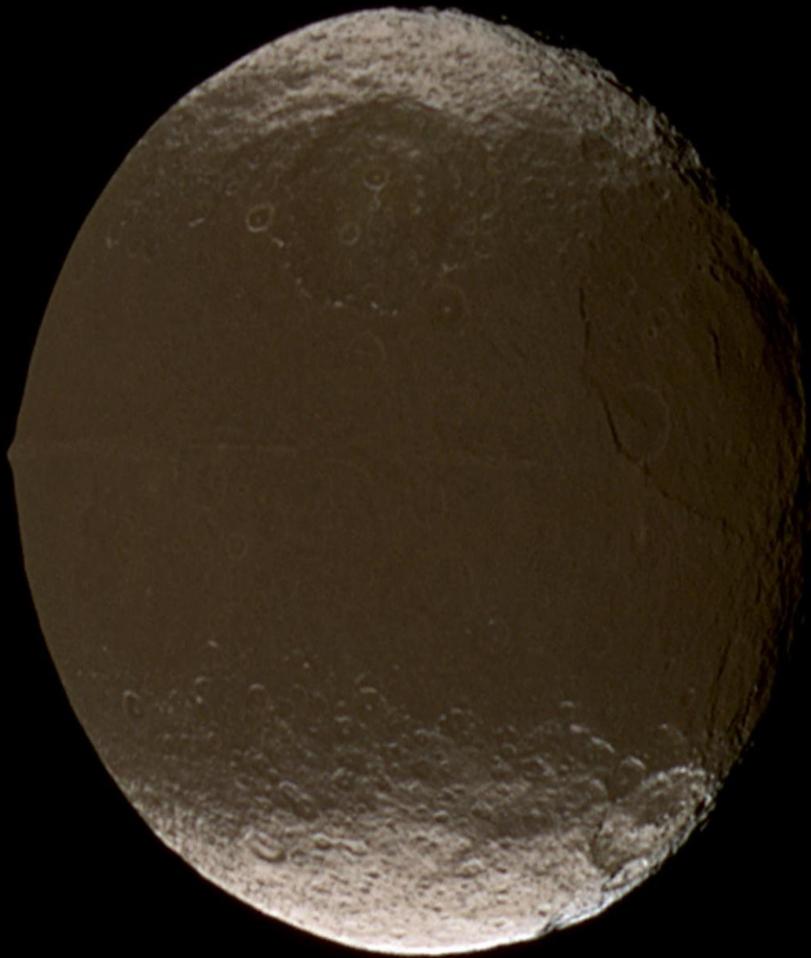


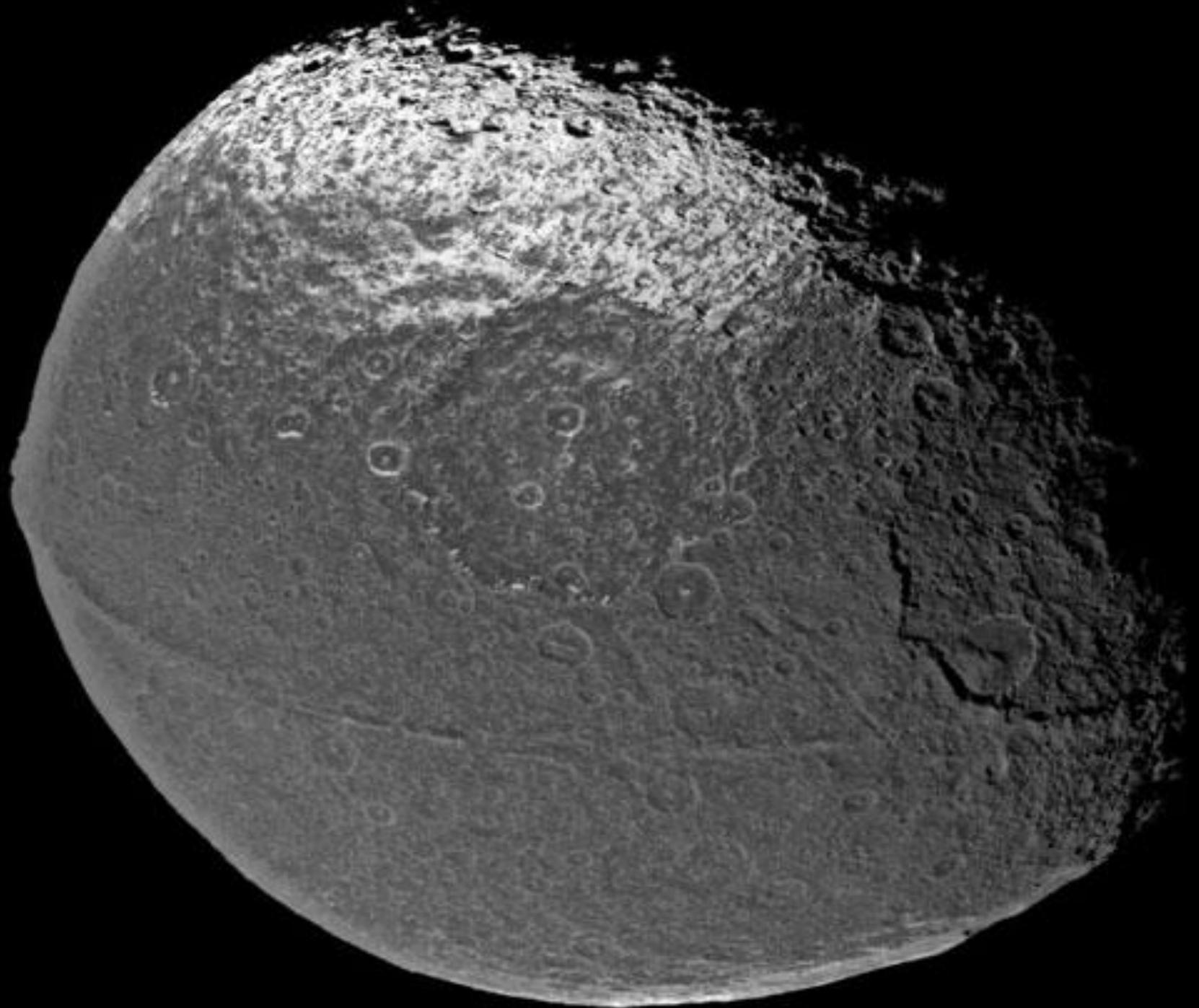


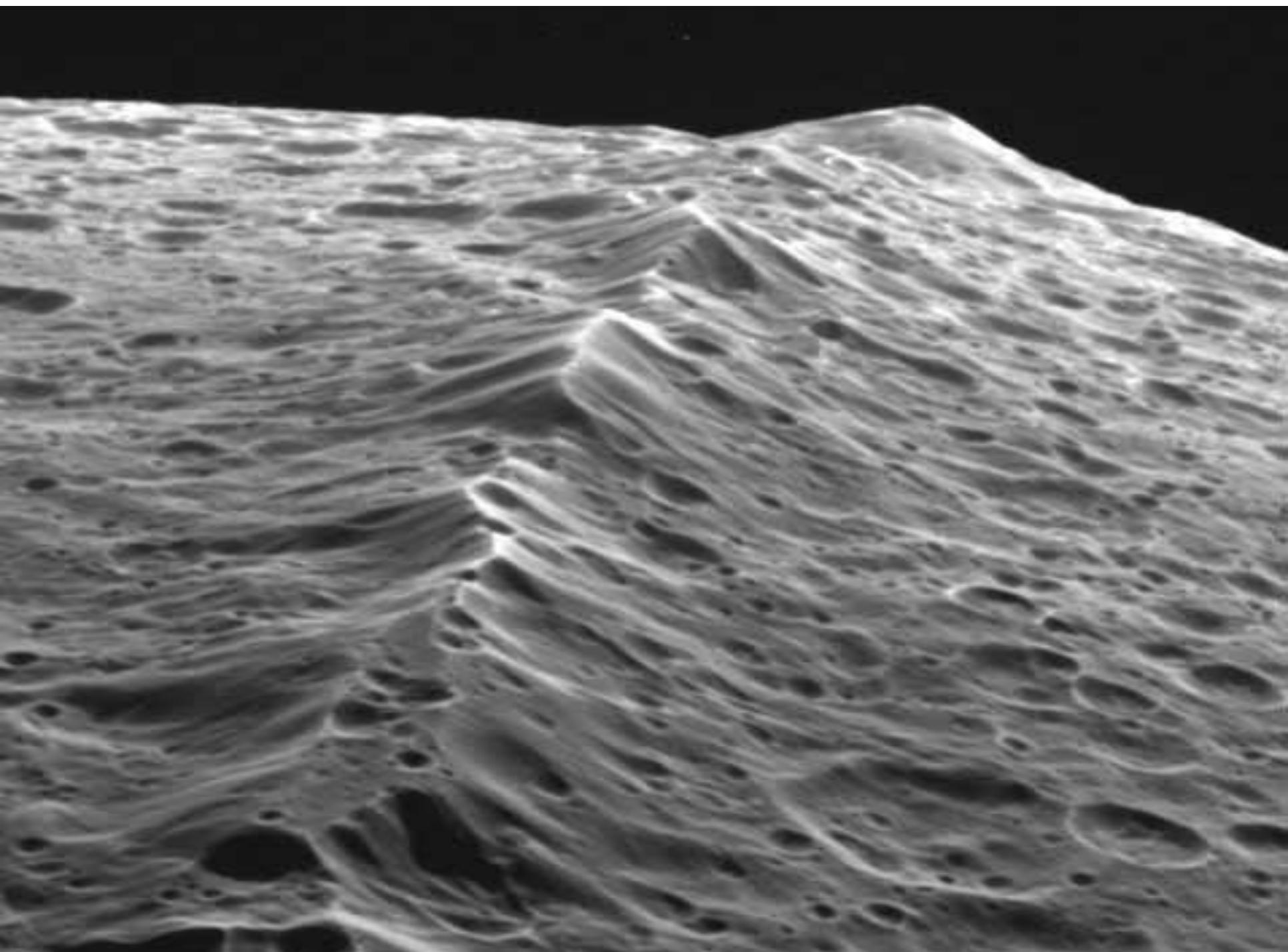


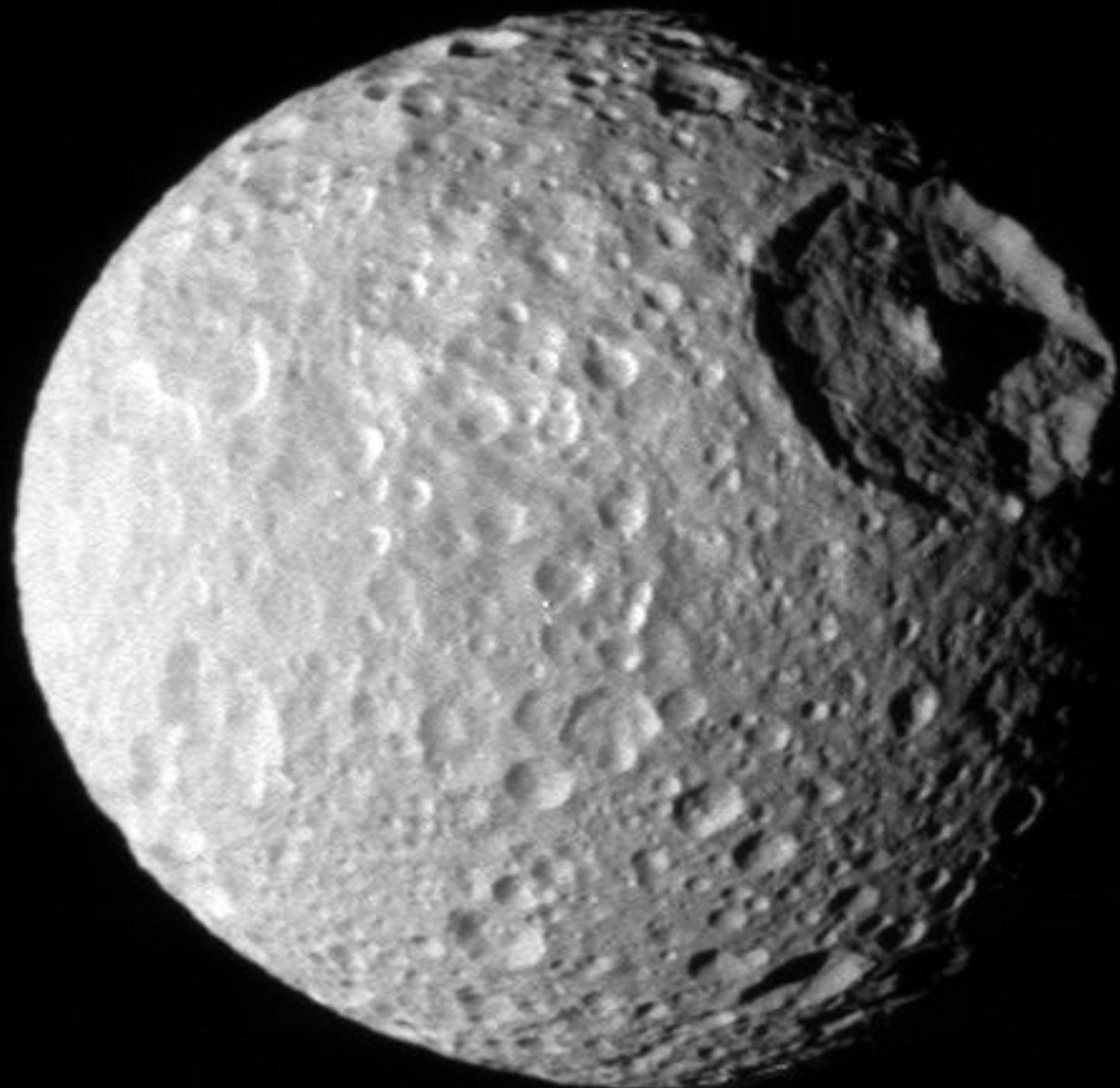


















Миранда



Ариэль



Умбриэль

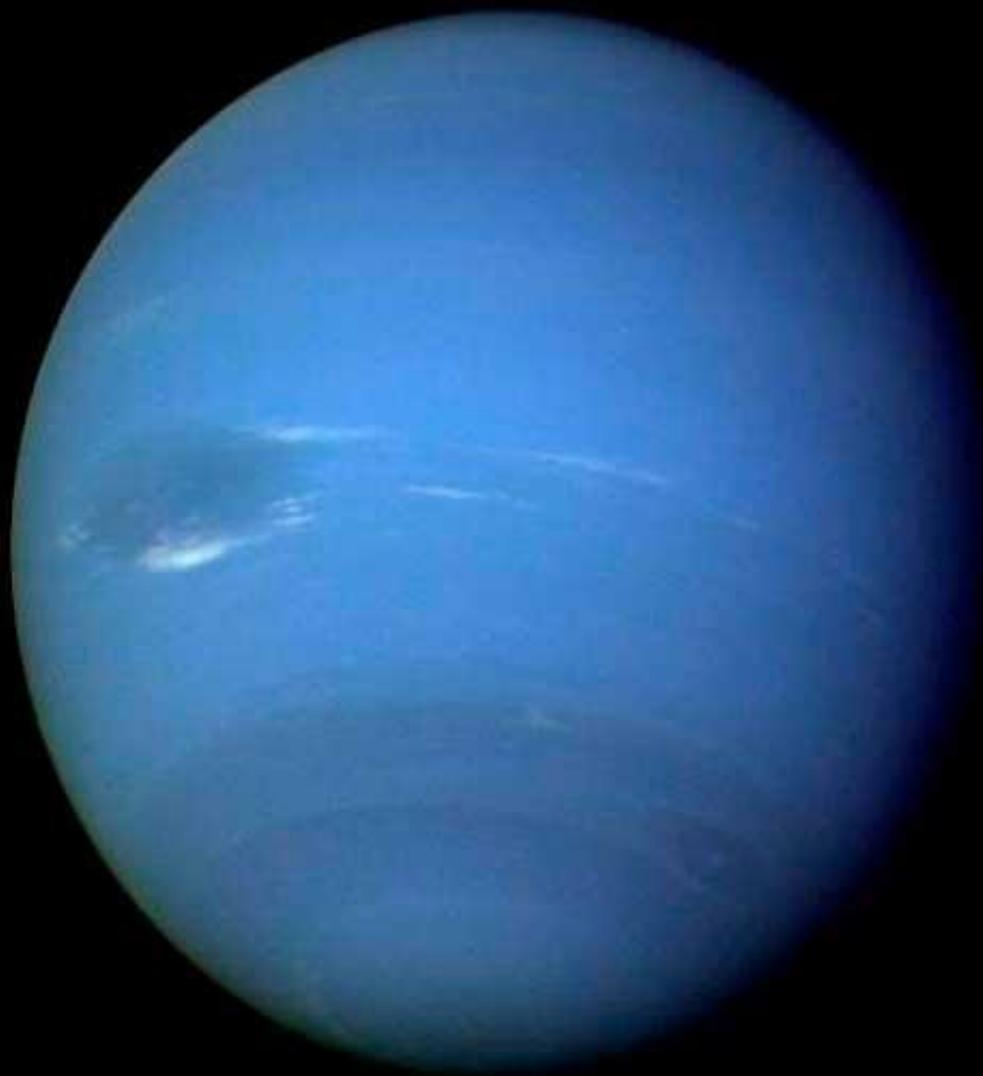


Титания

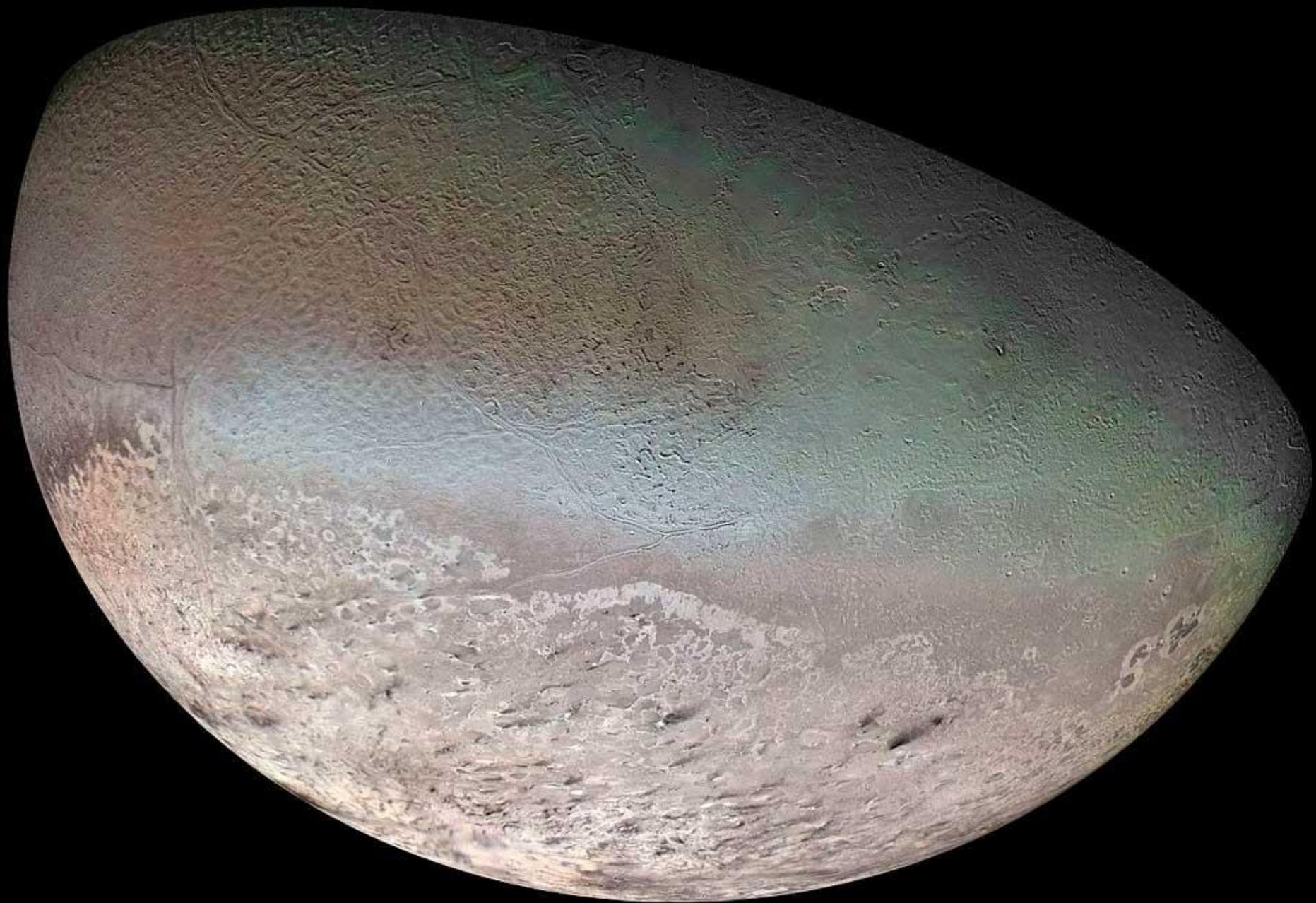


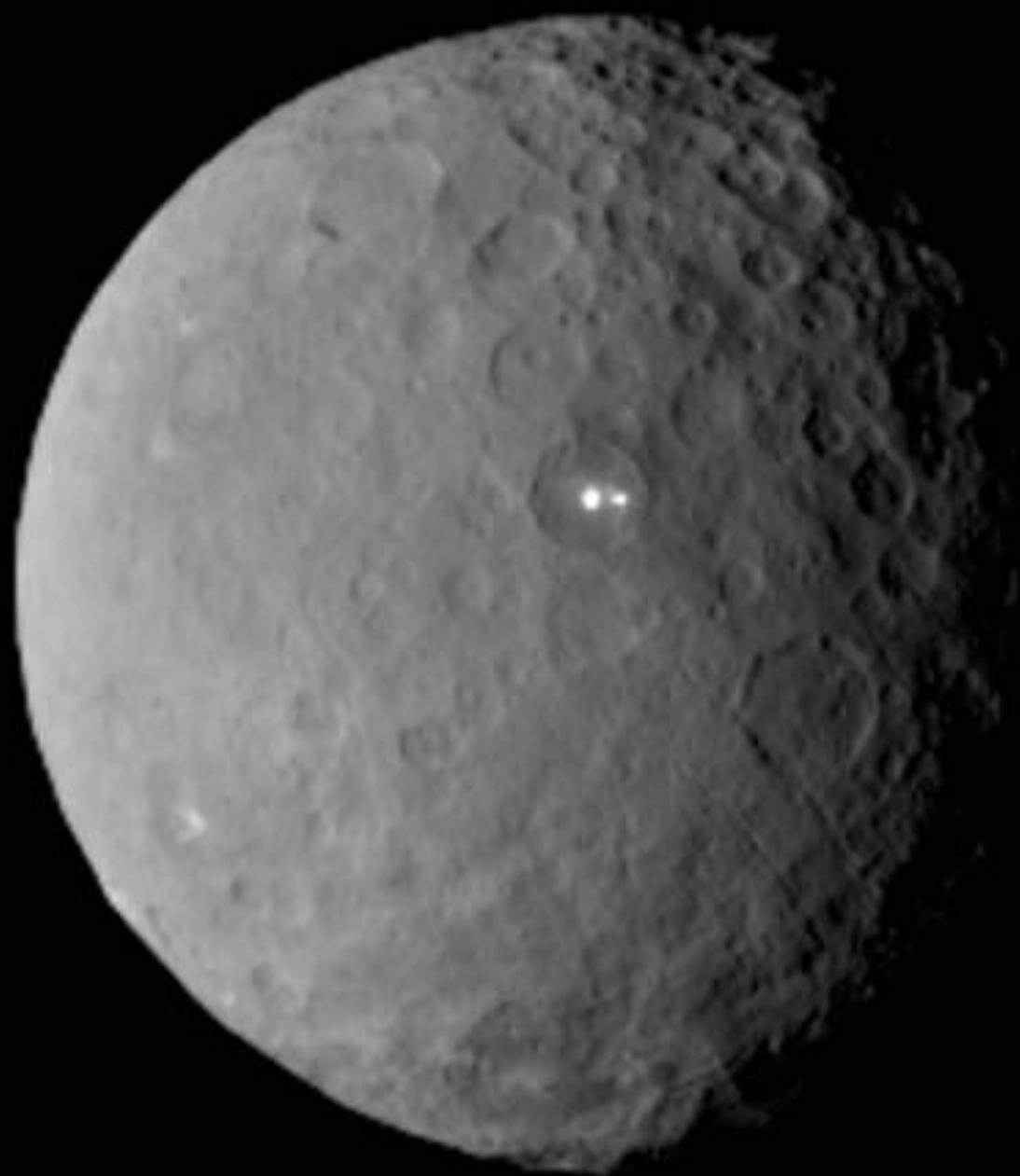
Оберон



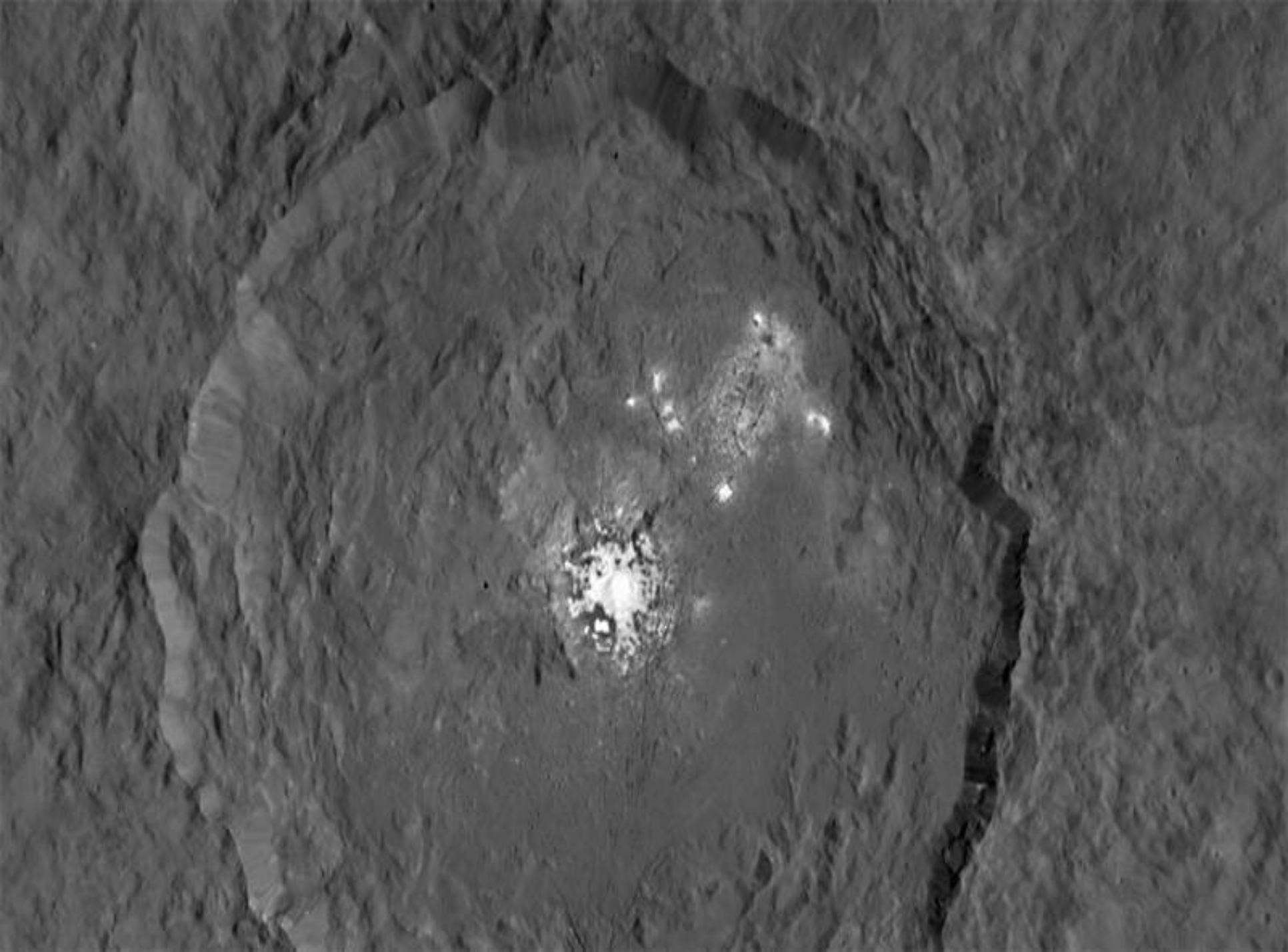


Сравнение размеров Земли и Нептуна











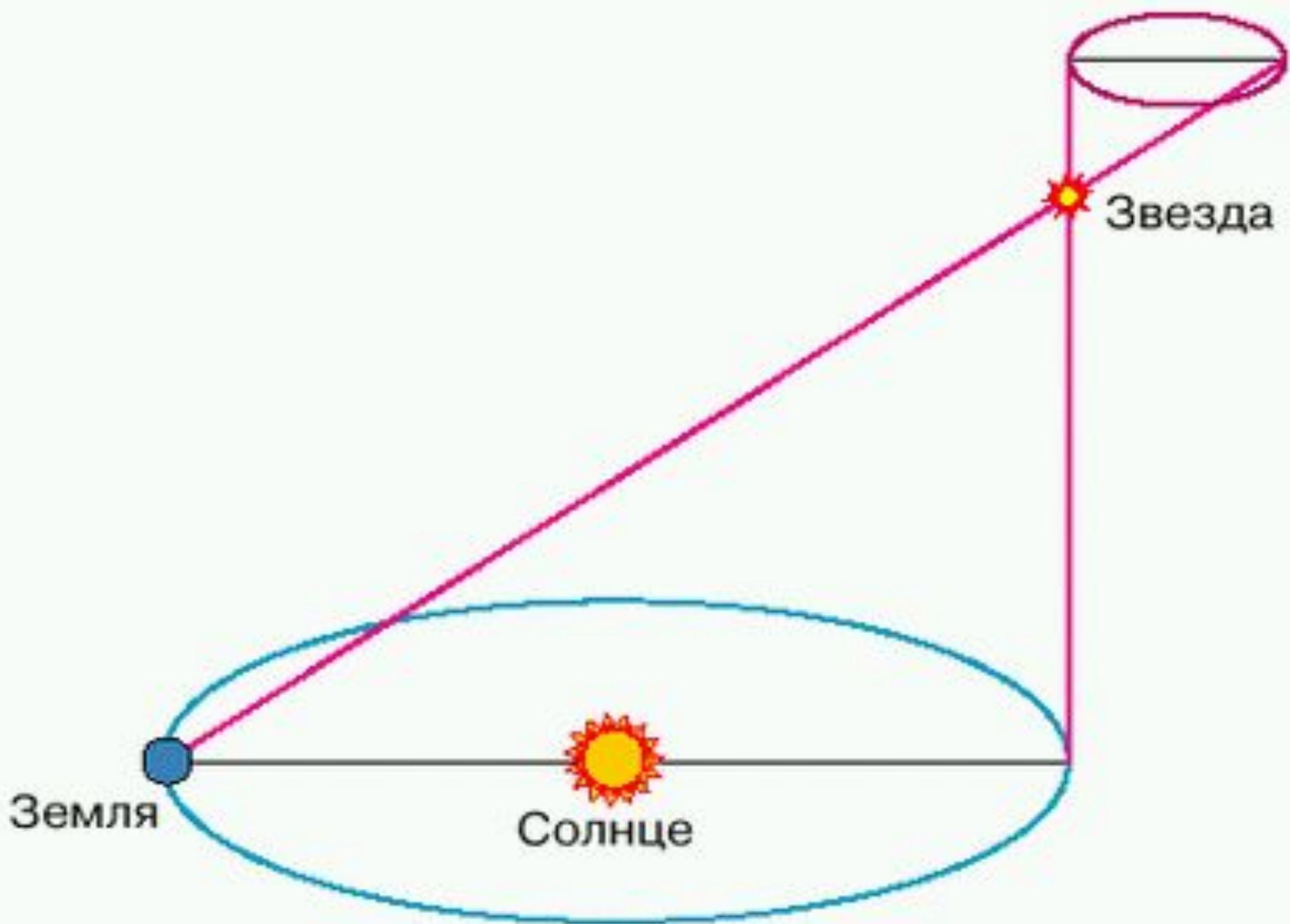




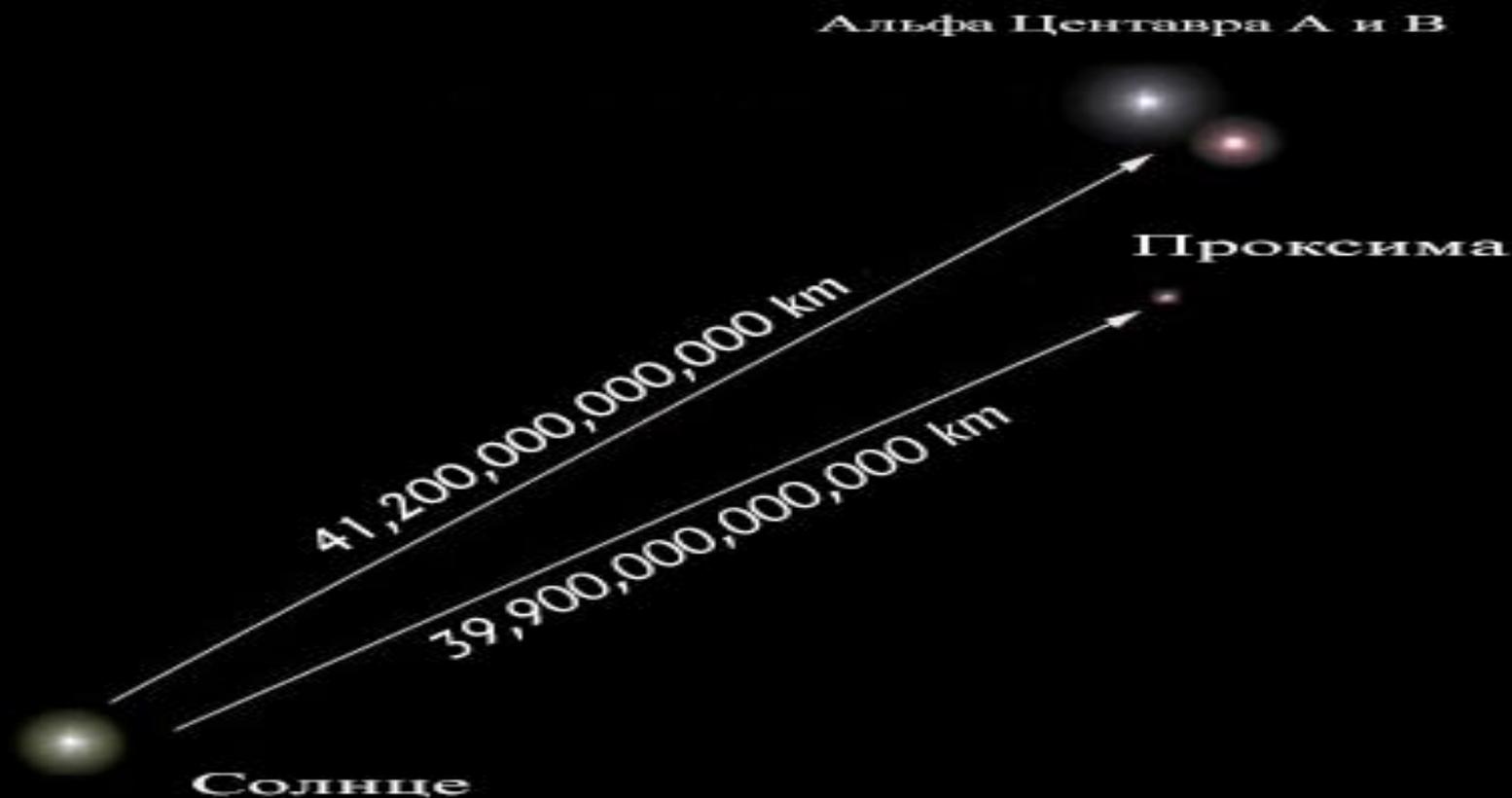


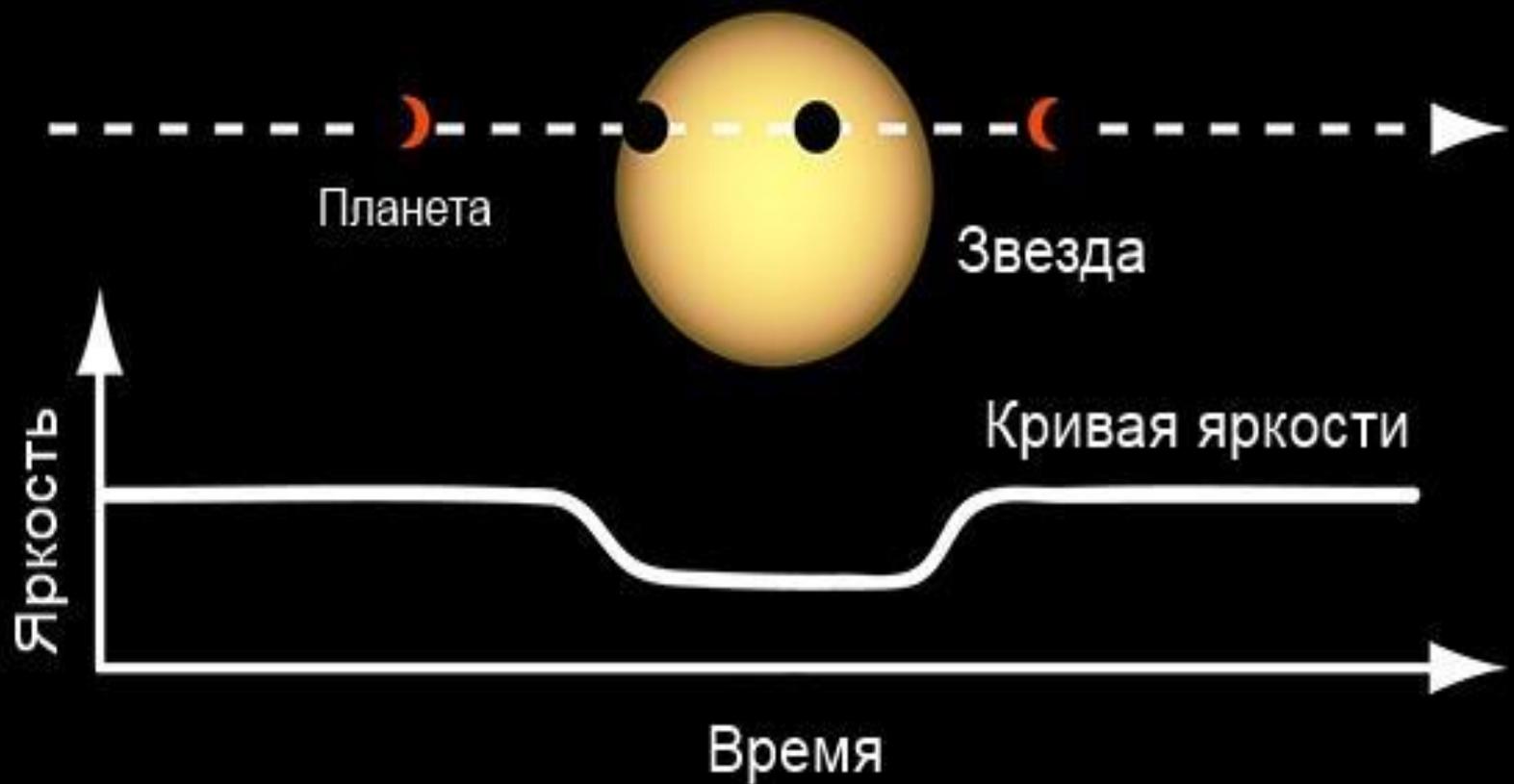


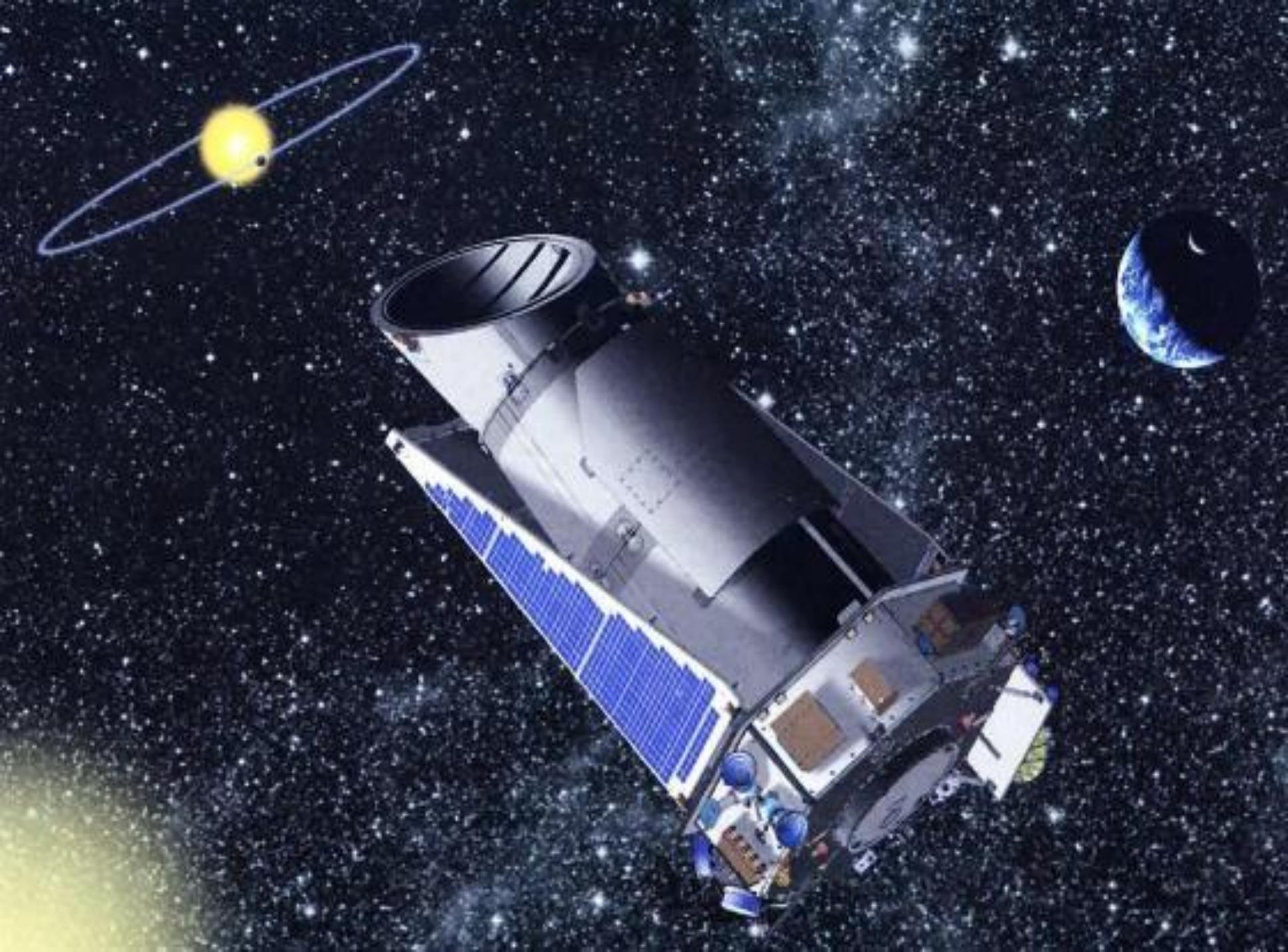


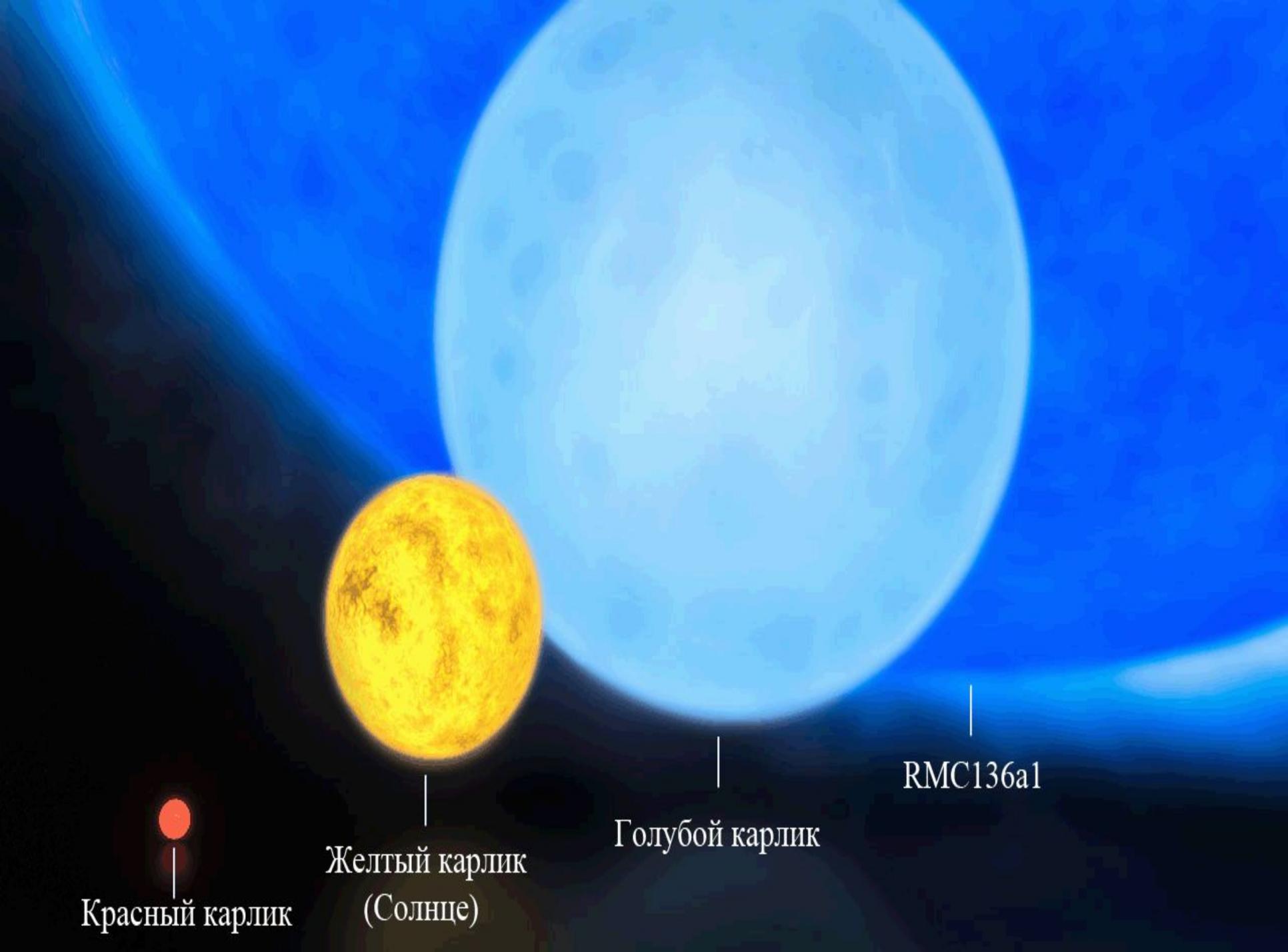


4,4 световых года до ближайшей звезды







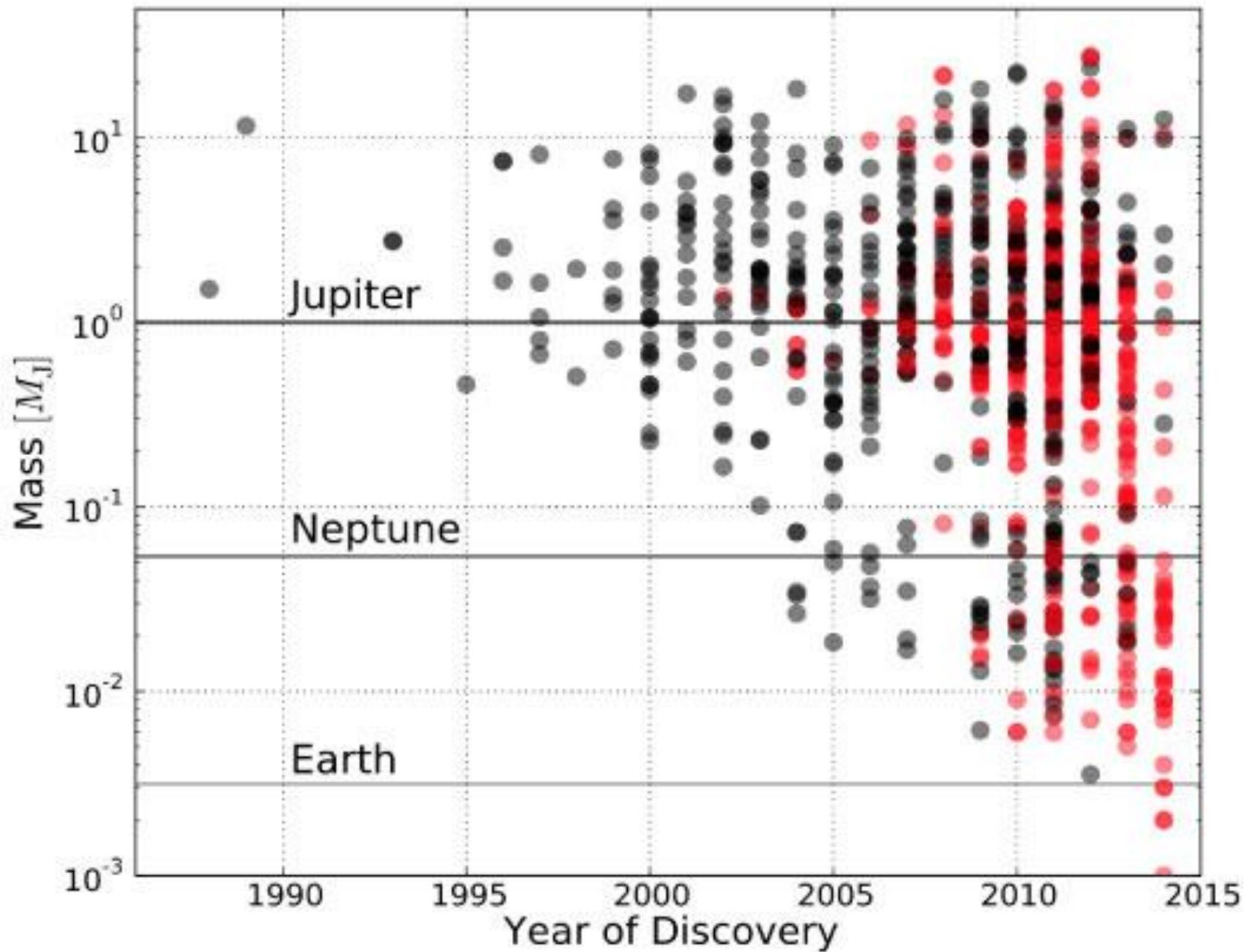


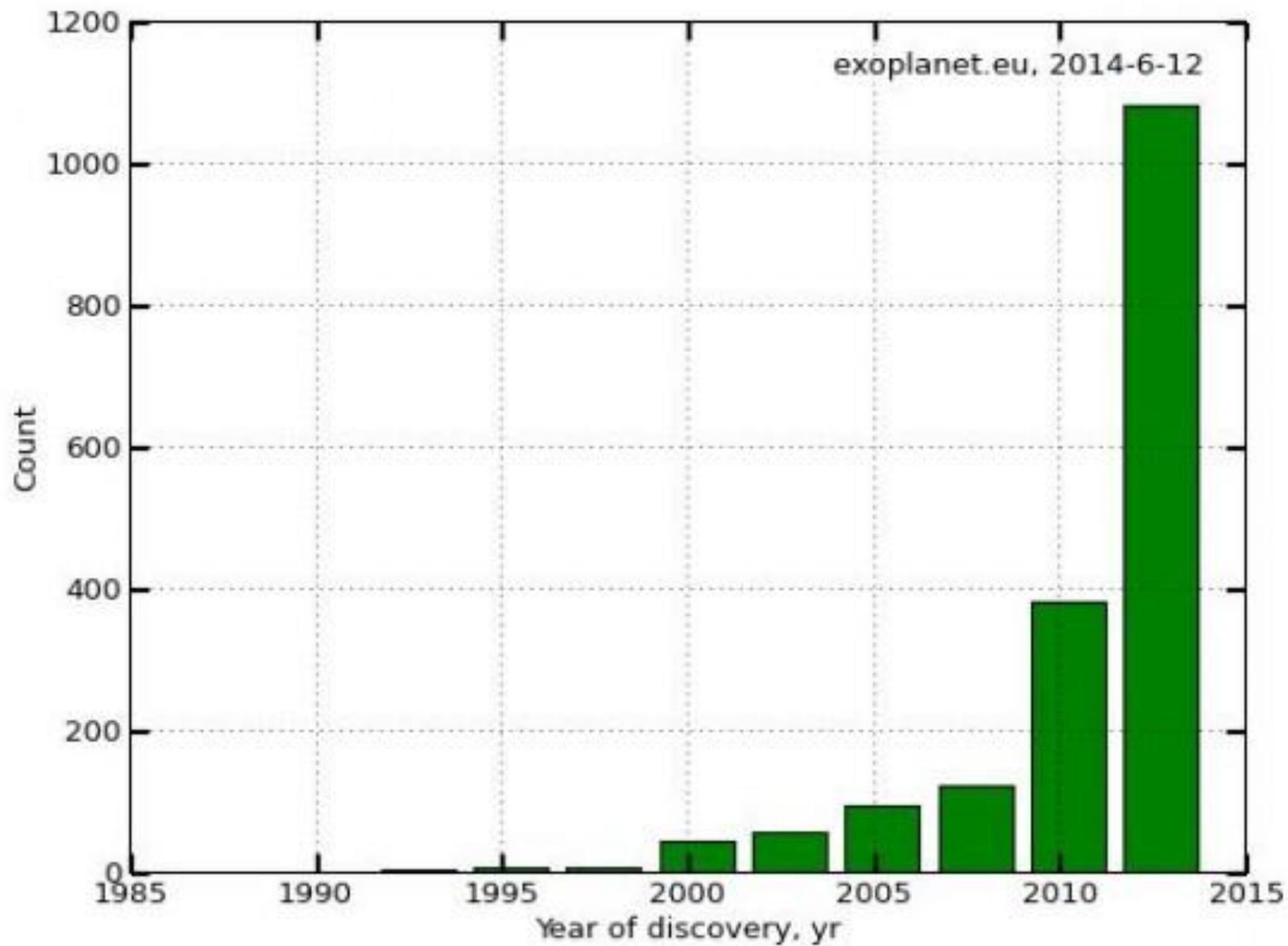
Красный карлик

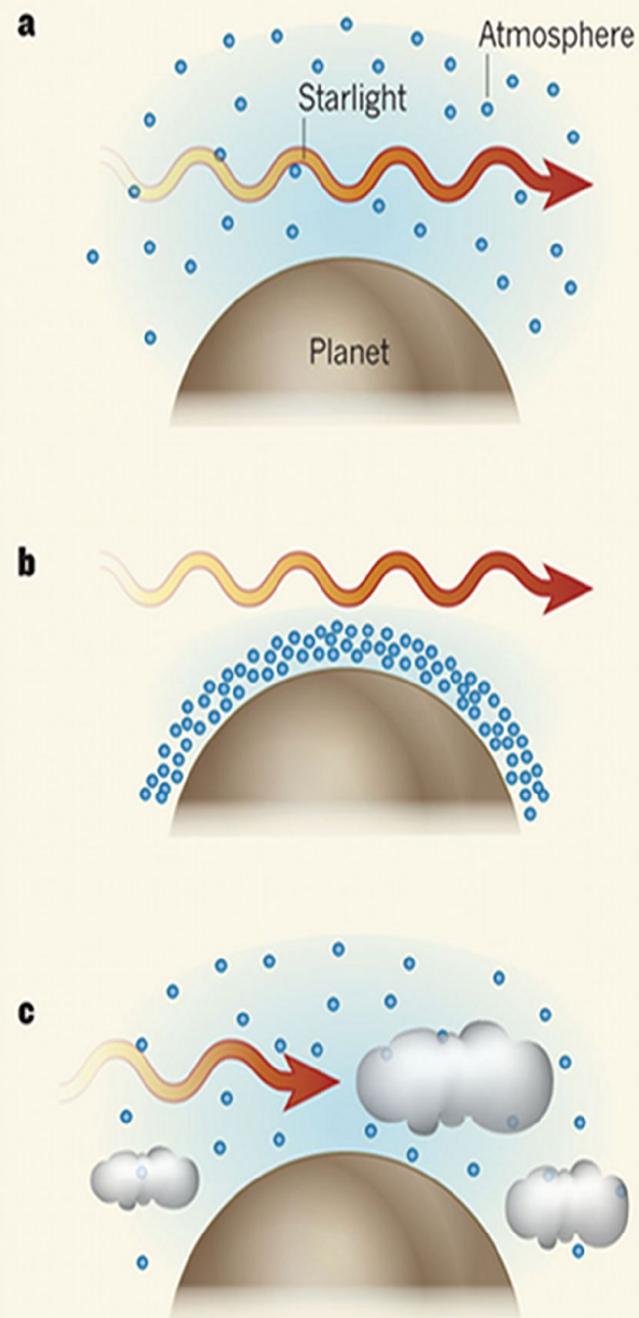
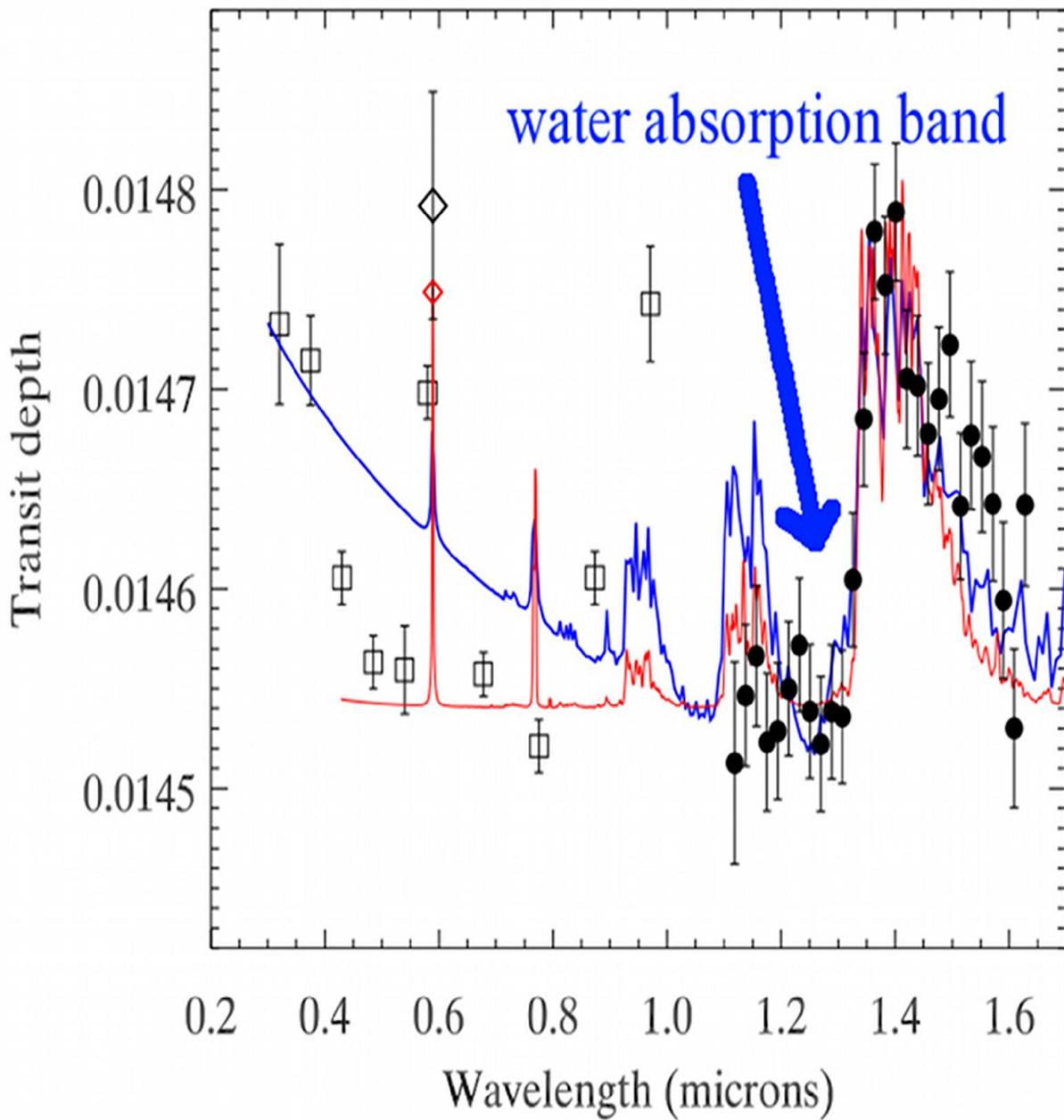
Желтый карлик
(Солнце)

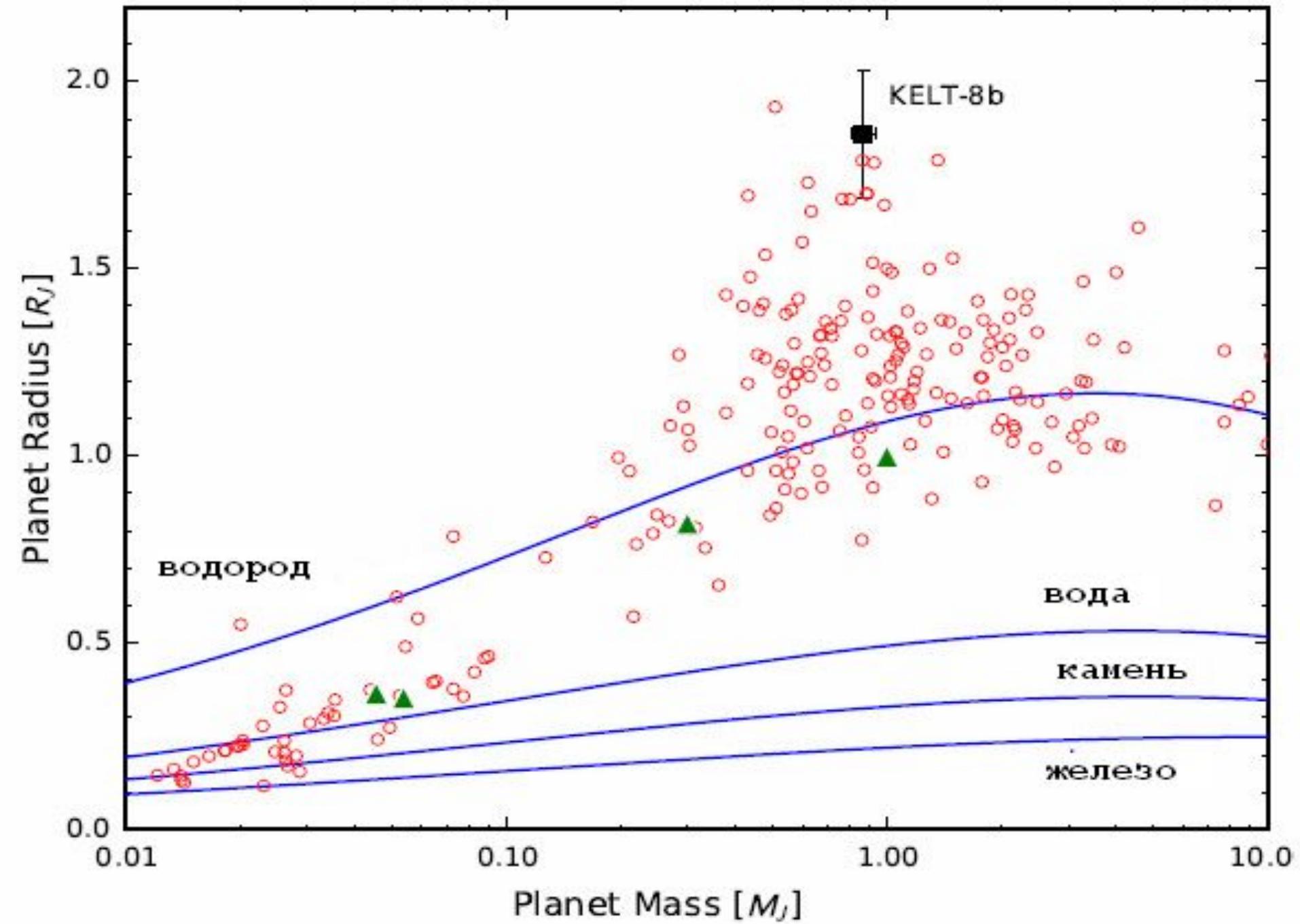
Голубой карлик

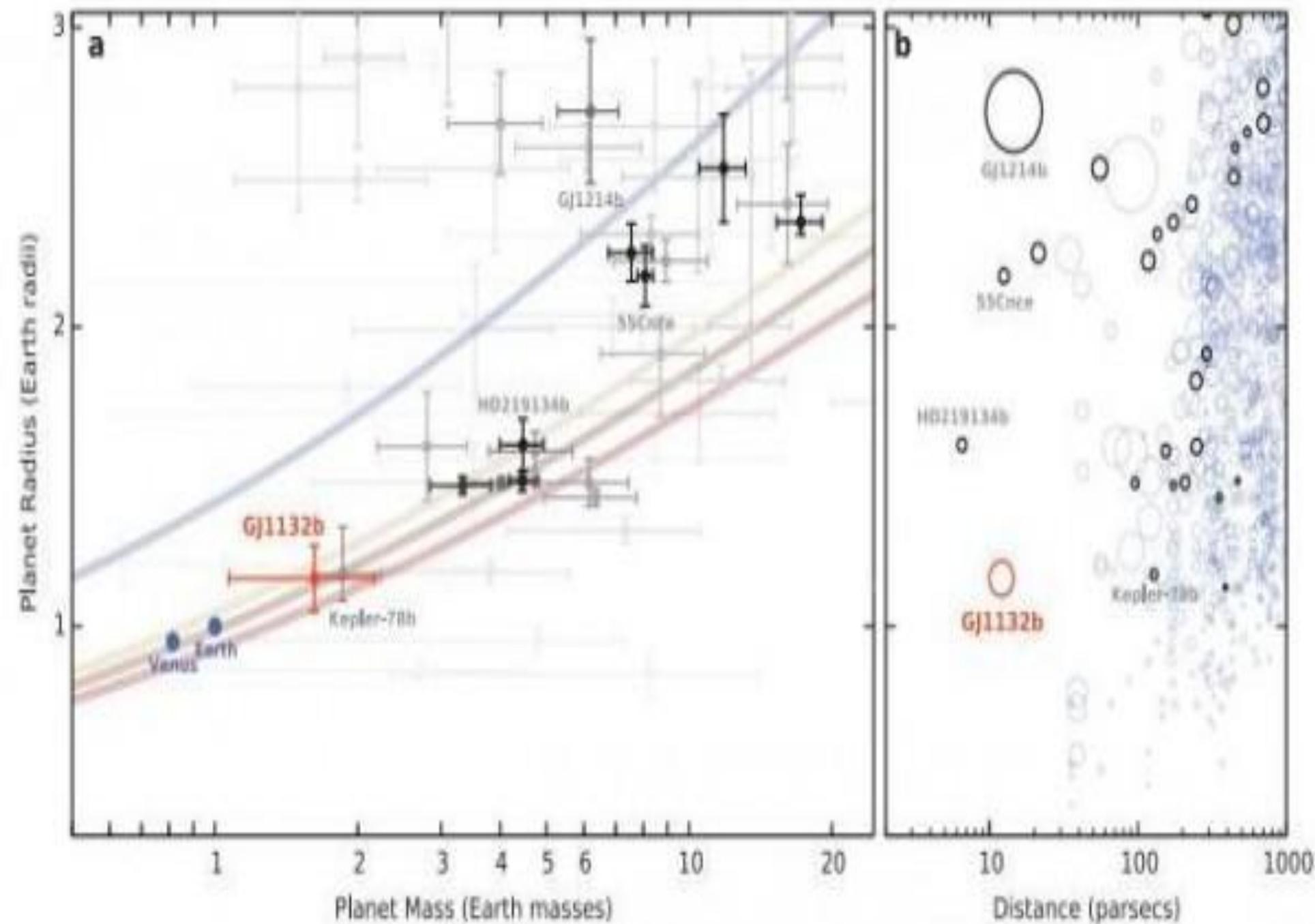
RMC136a1

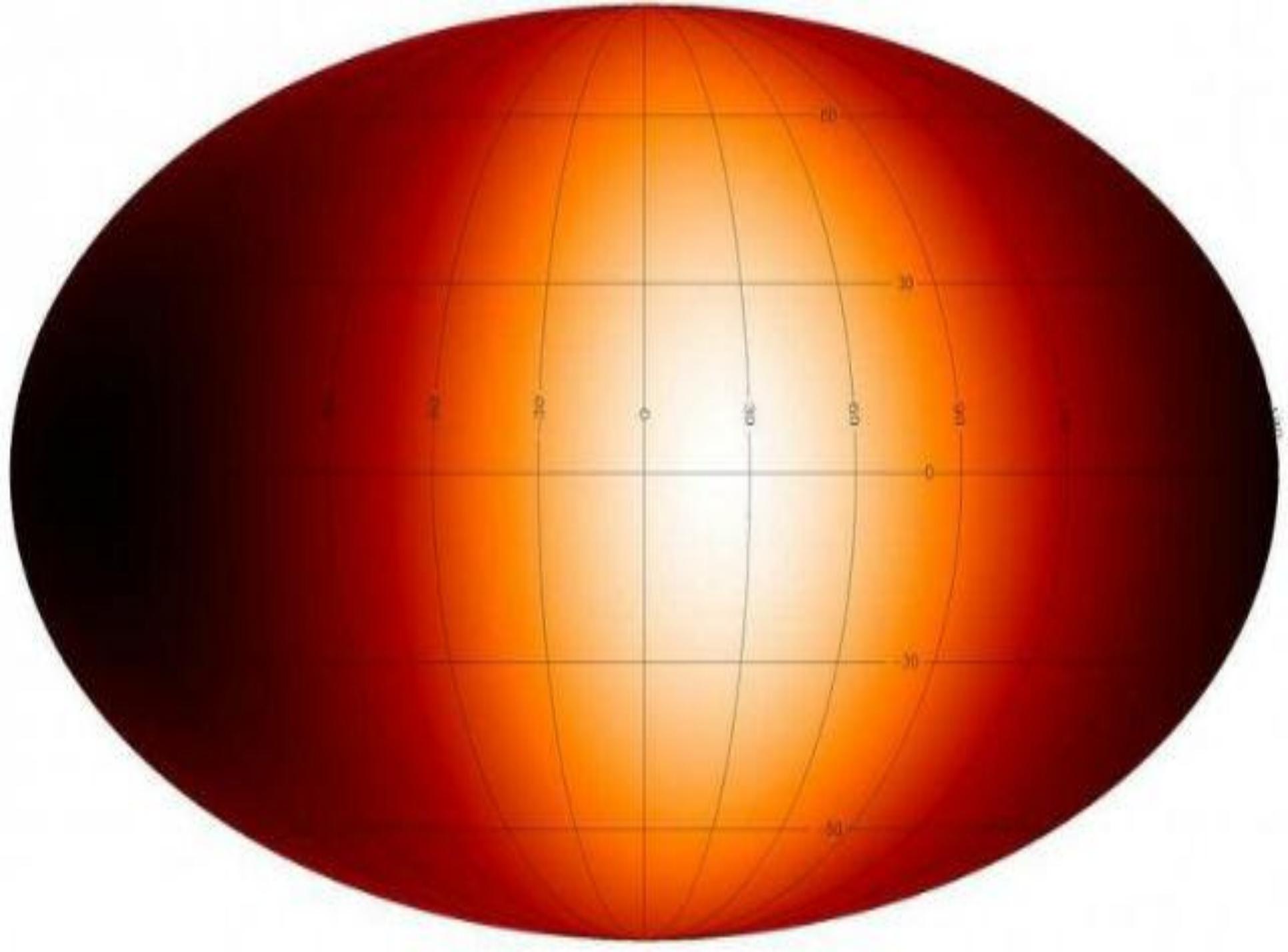




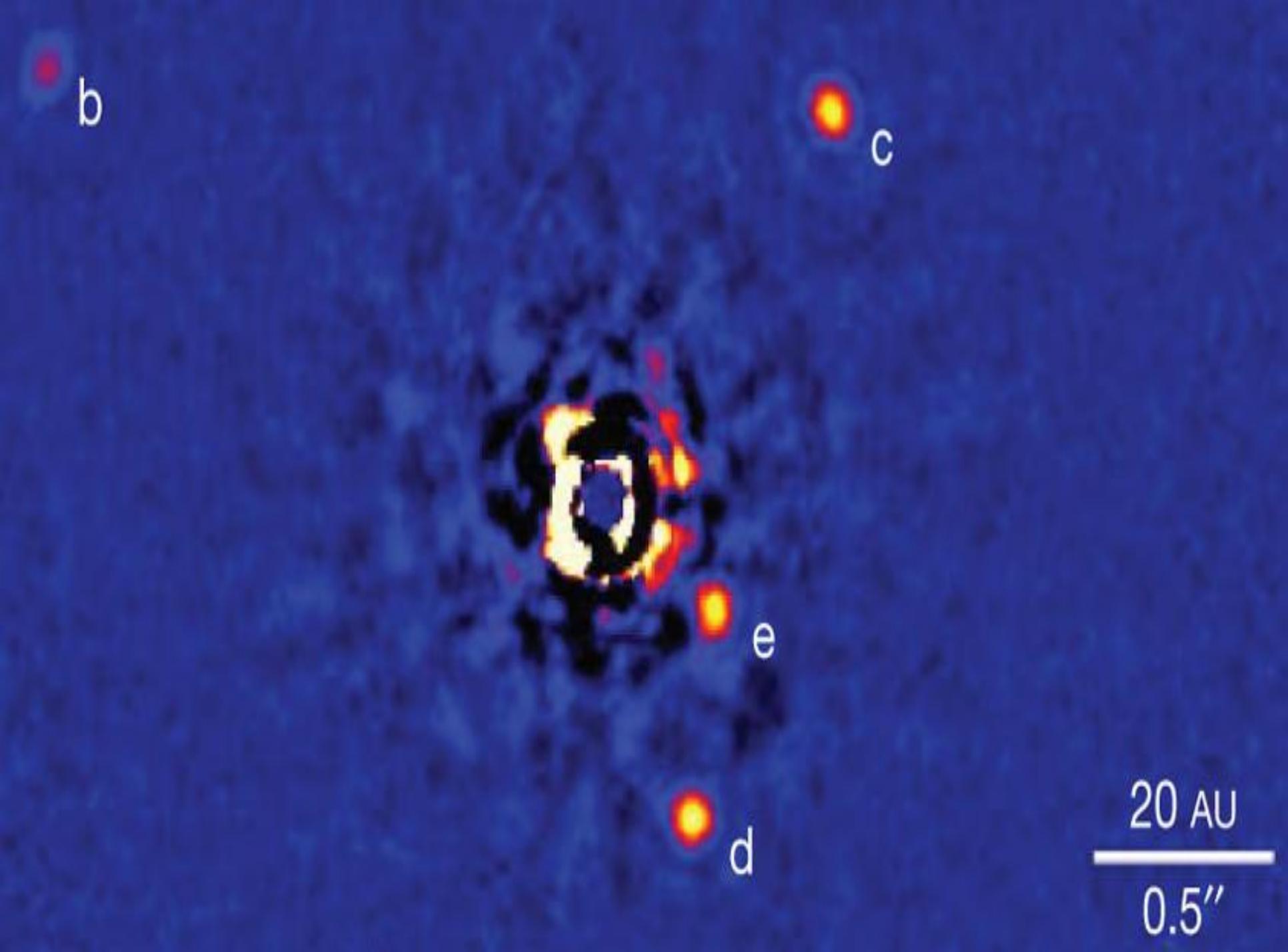
















SDTV
720x480

24x pixel density



UltraHD
3820x2160

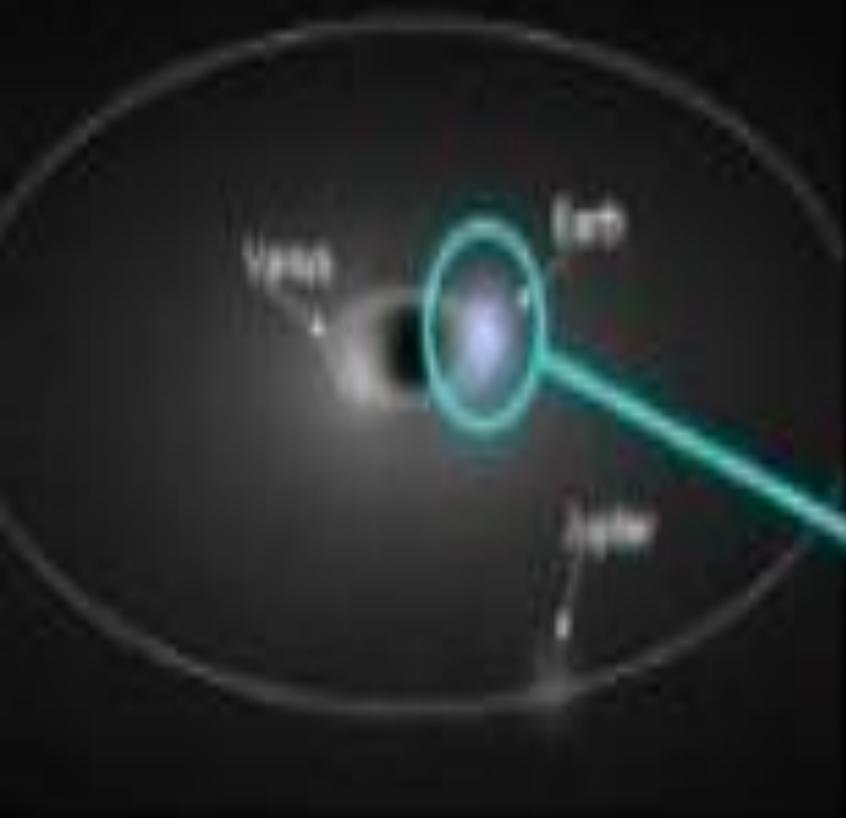


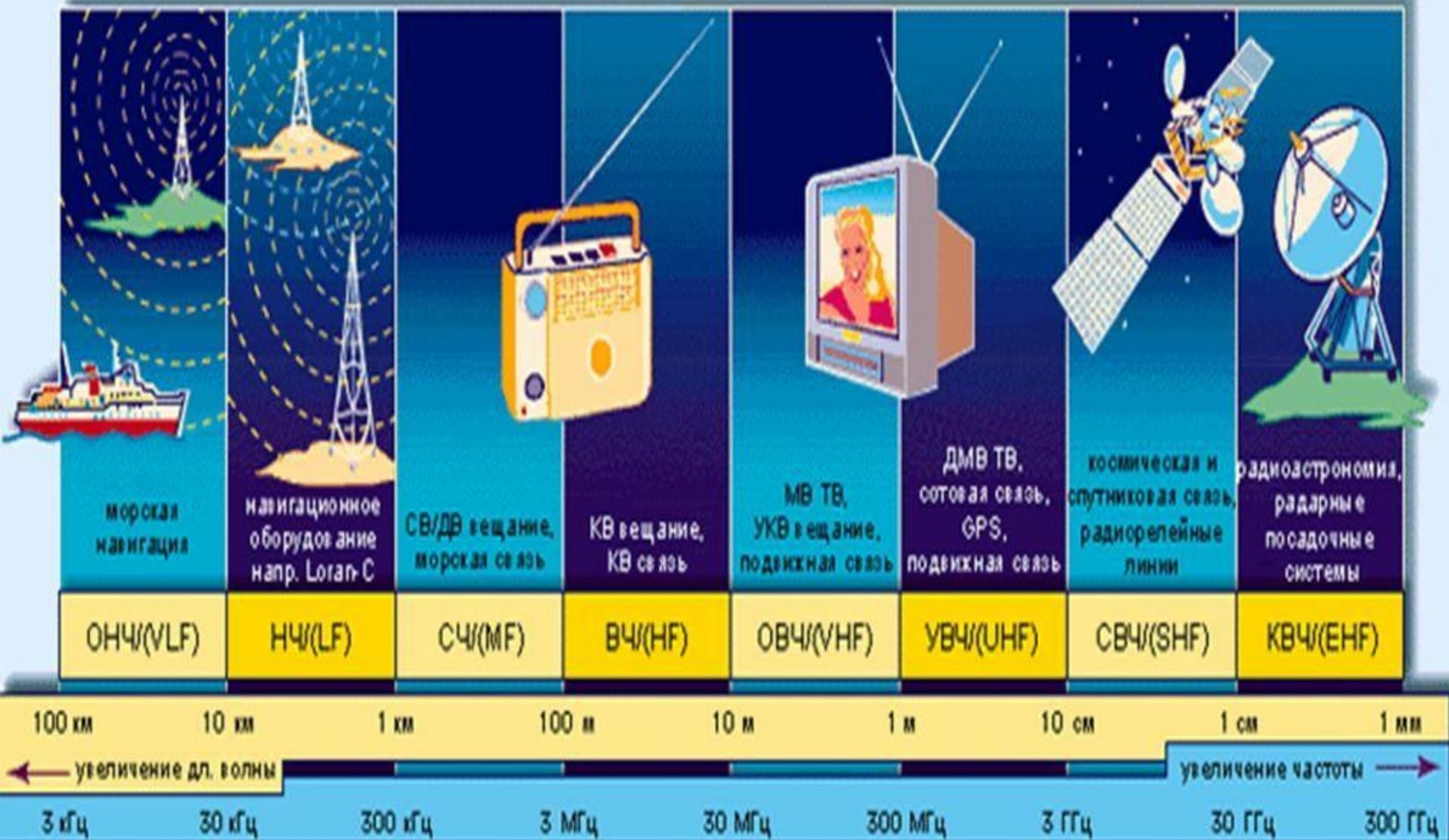
HST
2.4 m

24x image sharpness



HDST
12 m





Отправленные межзвёздные радиопослания

1. Аресибское послание,
16 ноября 1974 года

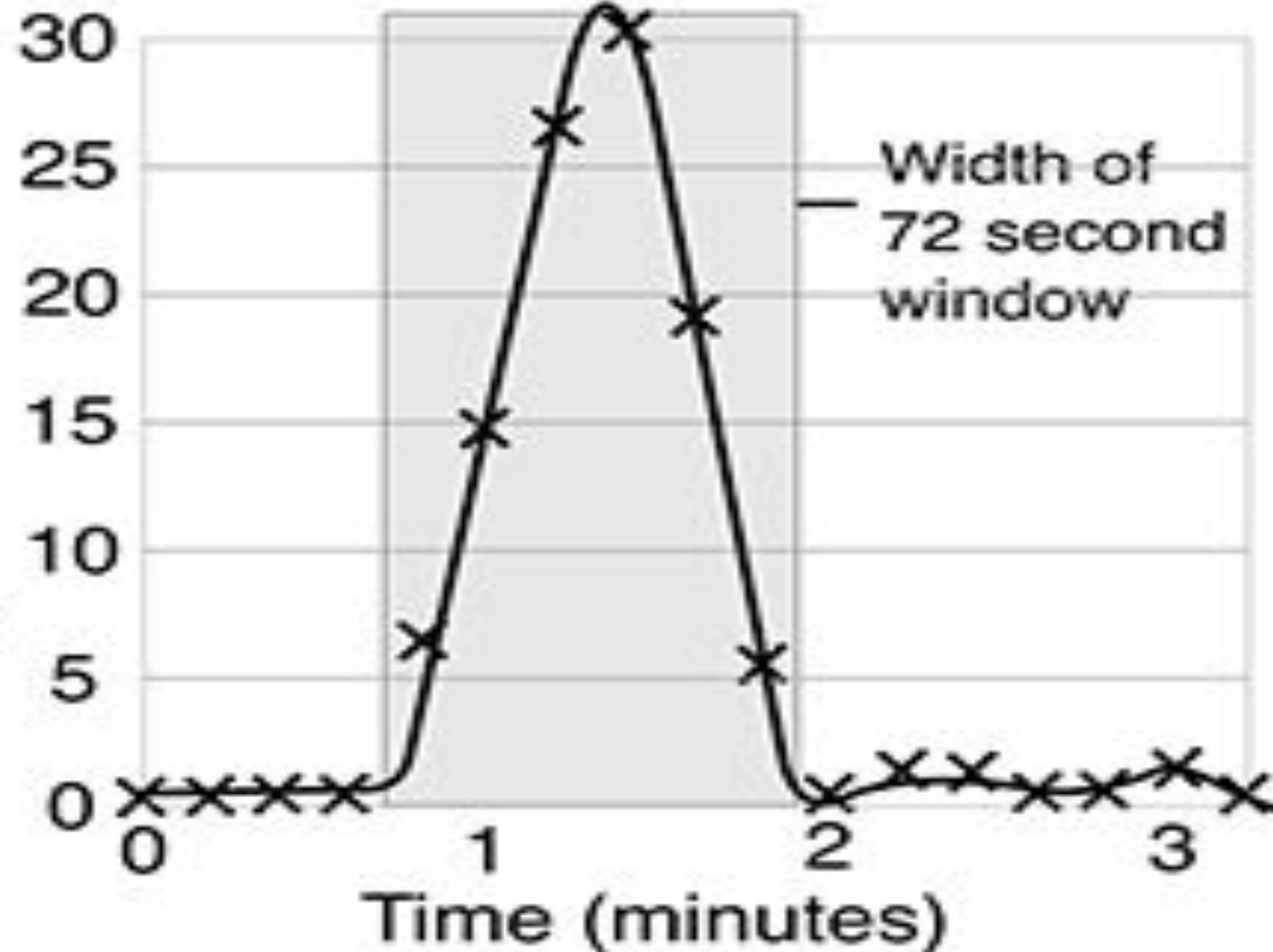


2. Cosmic Call 1999, пять сеансов излучения
3. Teen Age Message 2001, шесть сеансов
4. Cosmic Call 2003, пять сеансов
5. A Message From Earth 2008



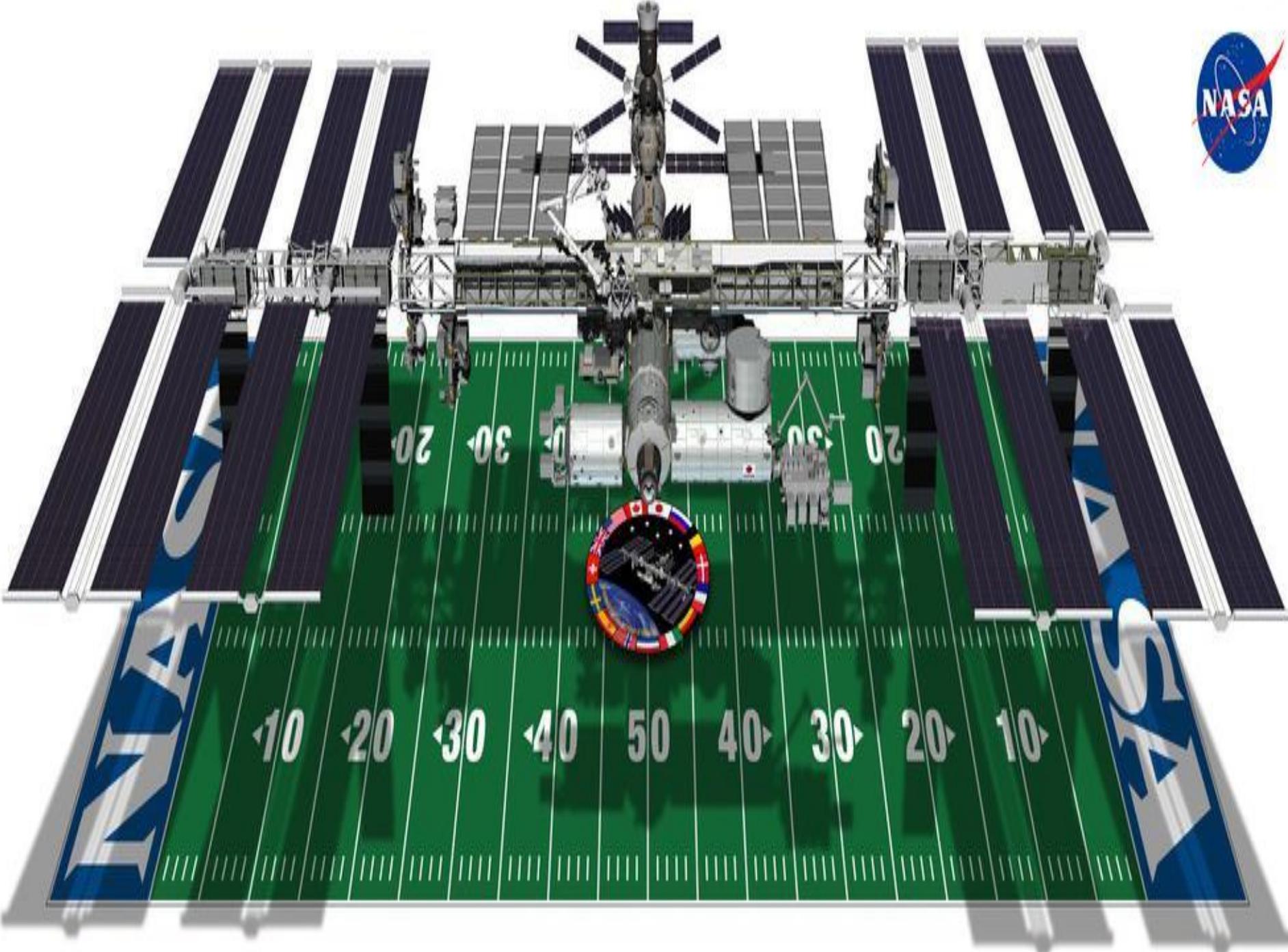
6 EQUJ 5

Signal to noise ratio

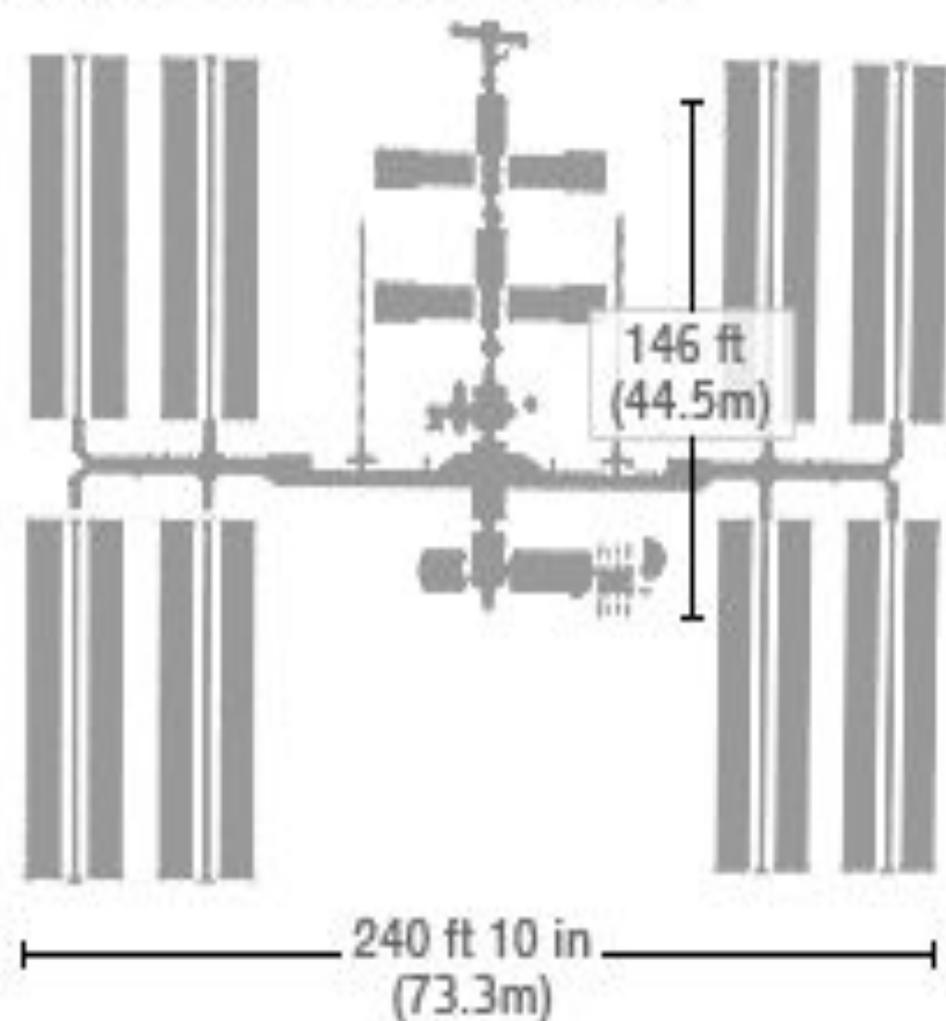




S130E012016

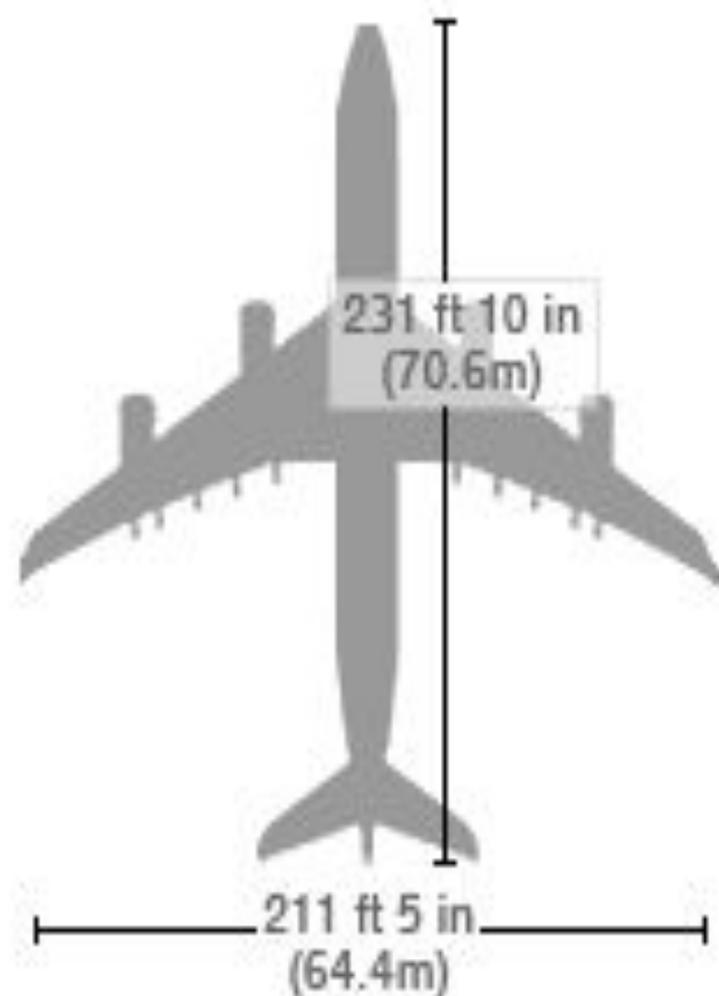


INTERNATIONAL SPACE STATION

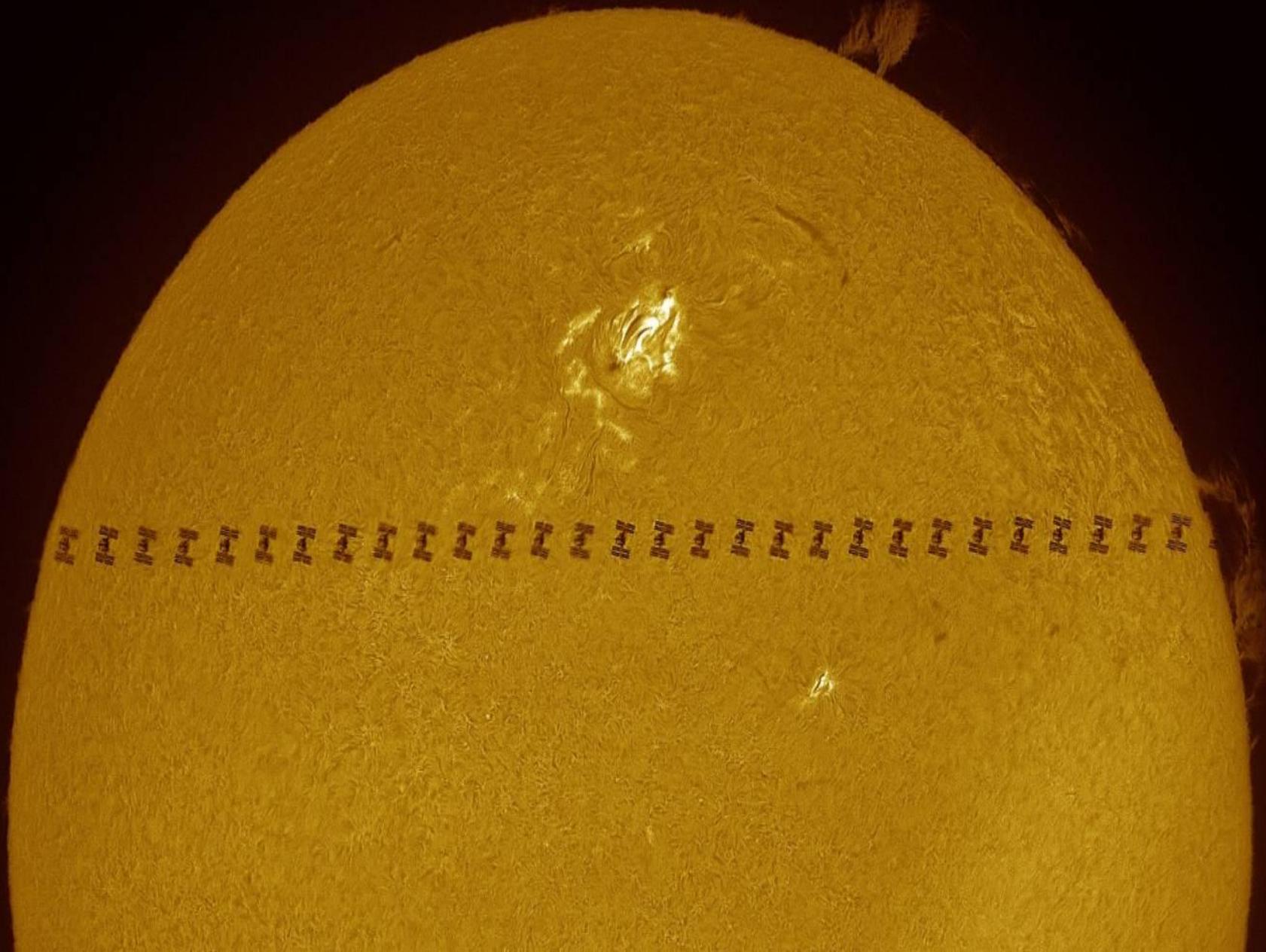


Current habitable space:
15,000 cubic ft (projected to double
on completion)

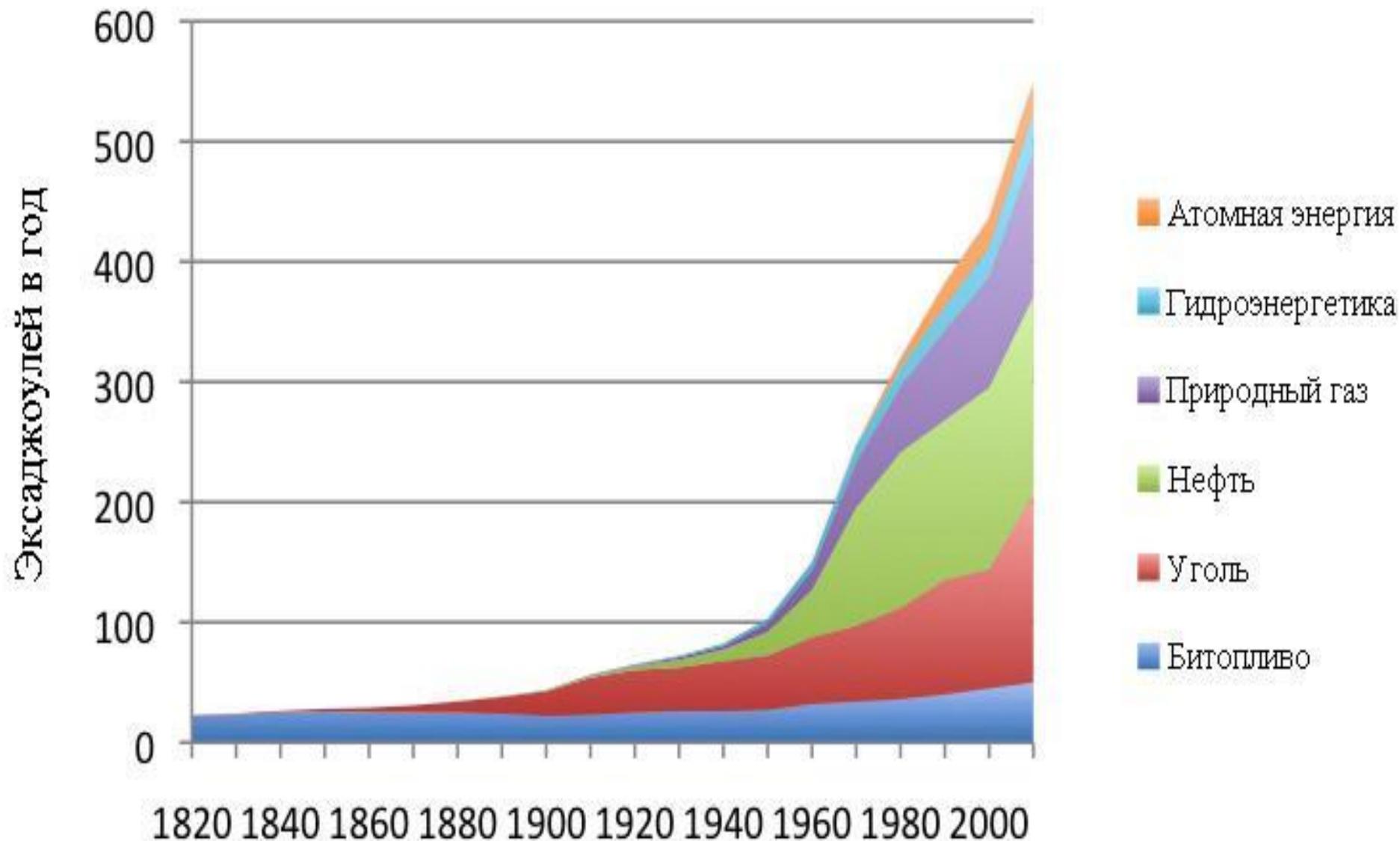
BOEING 747



Interior passenger volume:
31,295 cubic ft

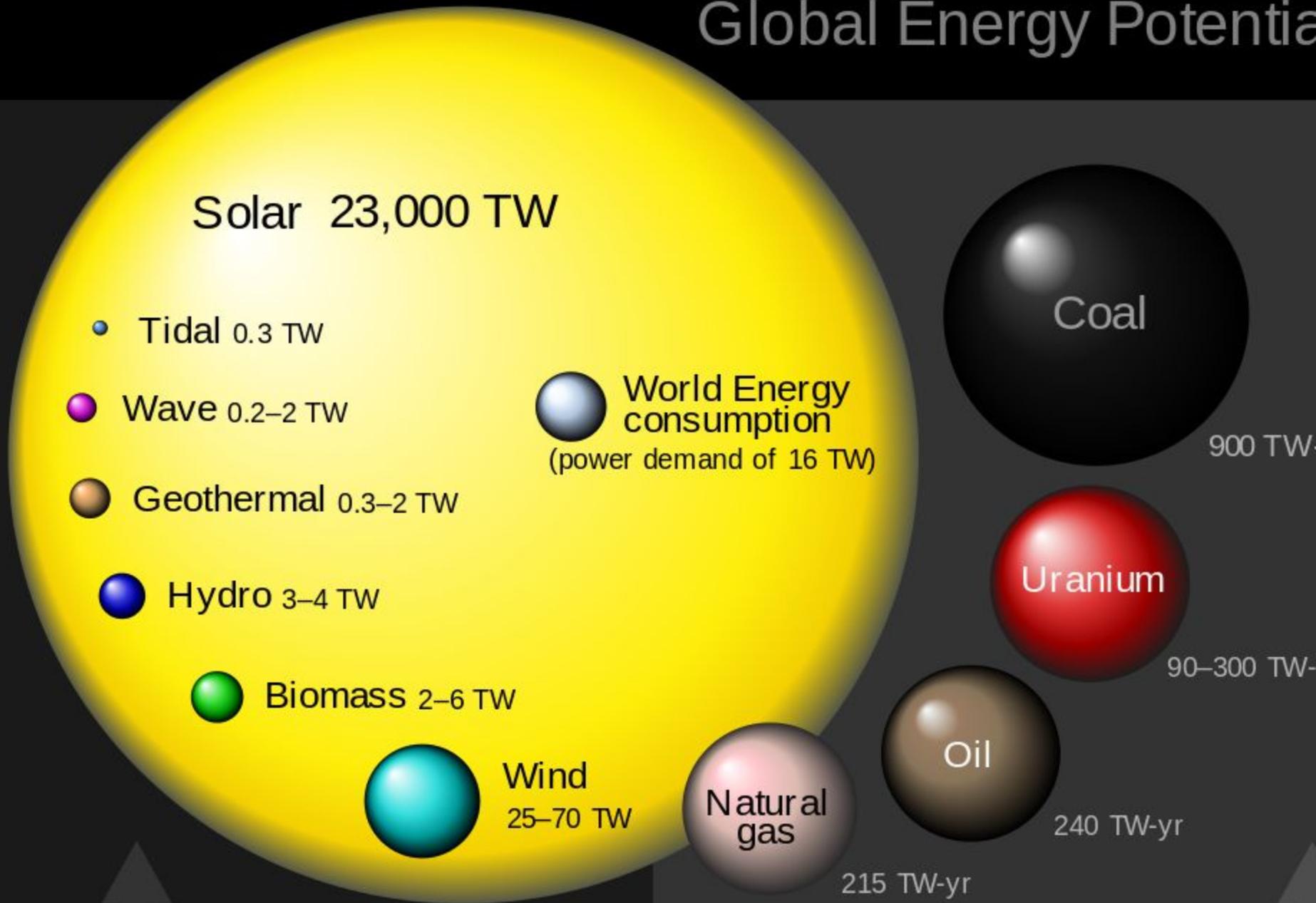


Потребление энергии в мире





Global Energy Potential





Welt

EU-25

D

0 125 250 500 750 1.000
Kilometer



