



The Solar System!

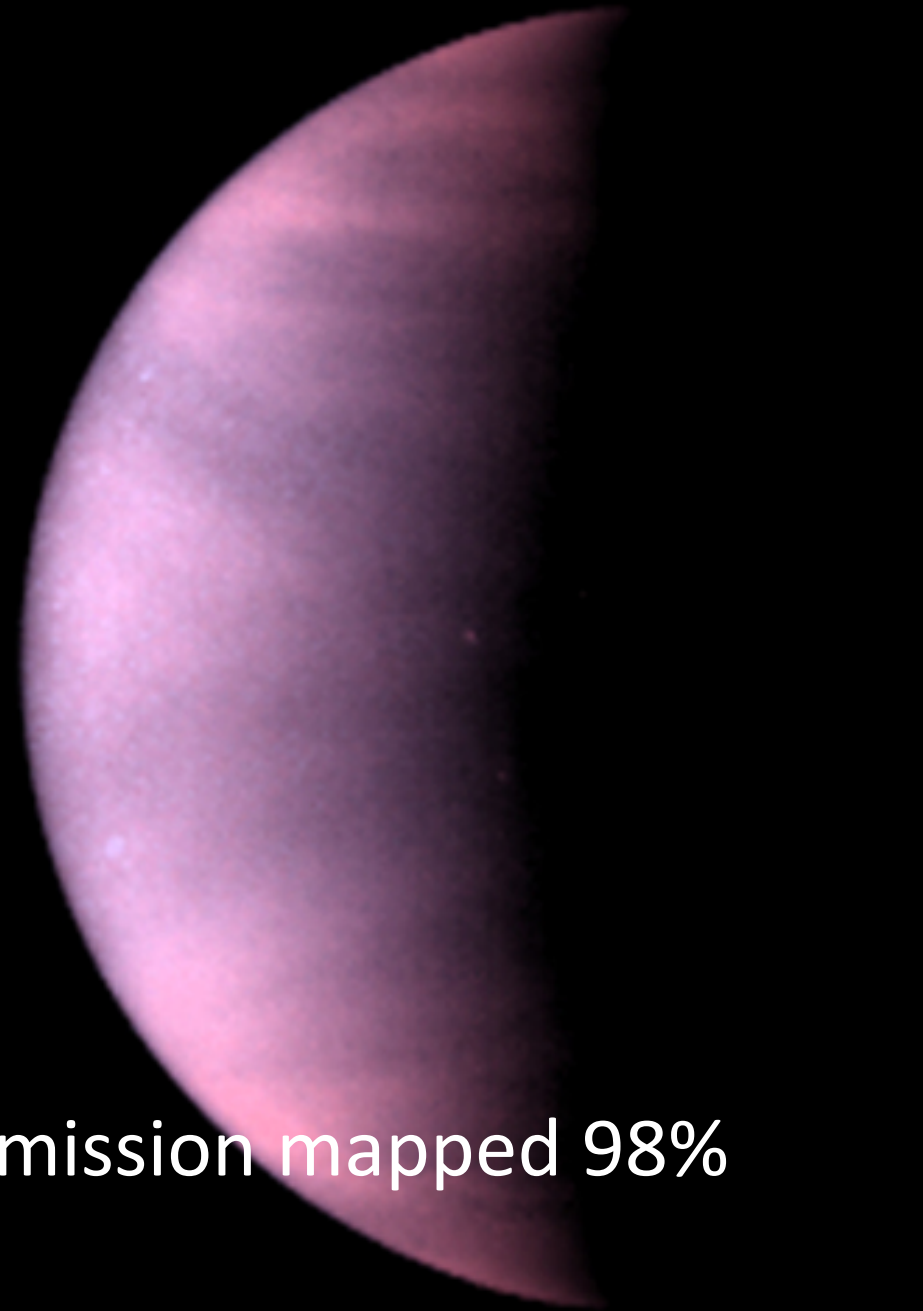


Mercury

- Radius: 2440 km
- Mass: 0.055 Earths
- Distance from Sun: 58 million km
- Day length: 59 Earth days
- Year length: 88 days
- Number of moons: 0
- Rings: none
- Day time temperature: 430°
- Night time temperature: -180°
- Missions: Mariner in 1974/5 and Messenger in 2011

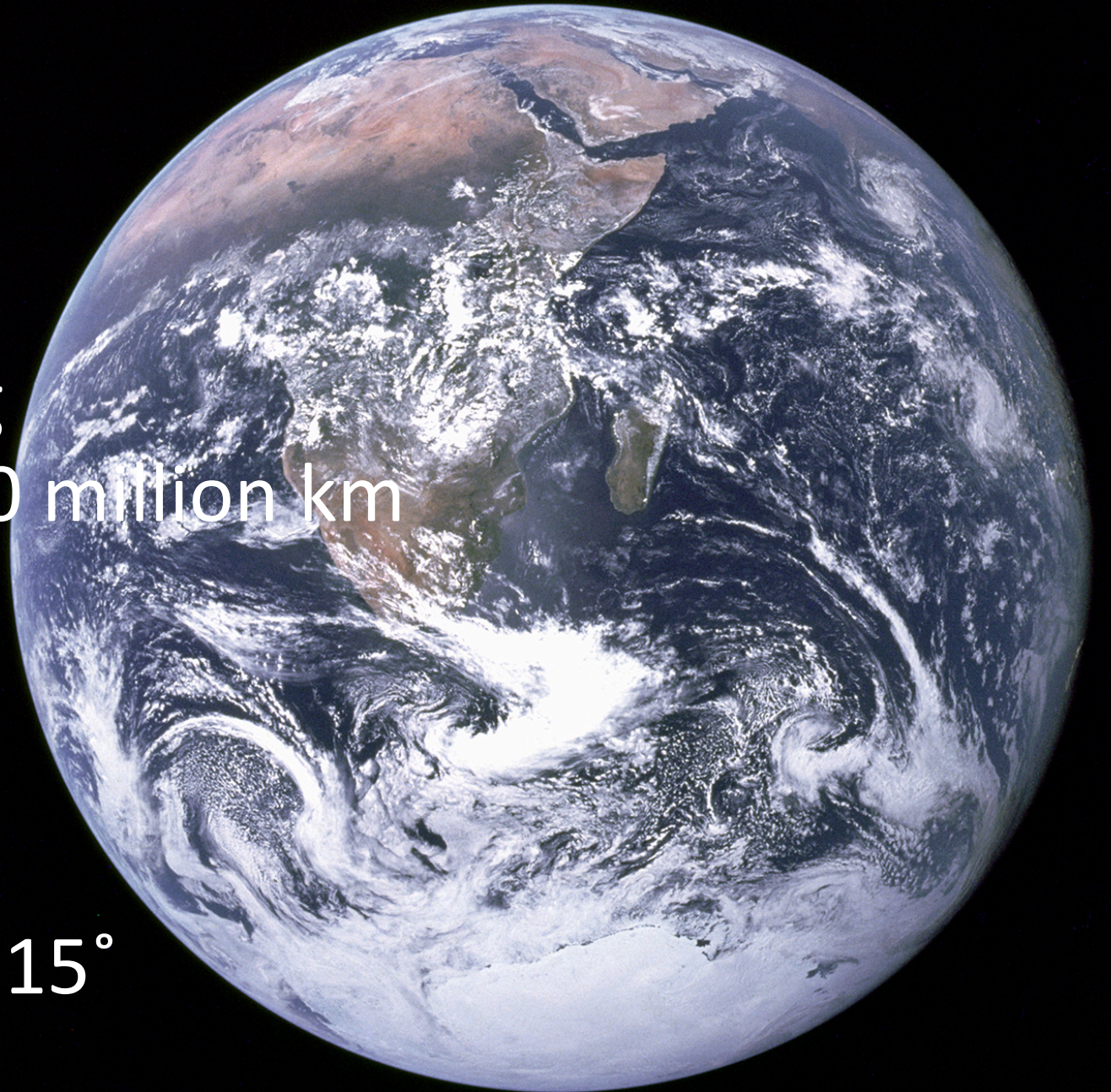
Venus

- Radius: 6052 km
- Mass: 0.815 Earths
- Distance from Sun: 108 million km
- Day length: 117 Earth days
- Year length: 225 Earth Days
- Number of moons: 0
- Rings: none
- temperature: 480°
- Missions: more than 40 – the Magellan mission mapped 98%



Earth

- Radius: 6371 km
- Mass: 5.97237×10^{24} kg
- Distance from Sun: 150 million km
- Day length: 24hrs
- Year length: 356days
- Number of moons: 1
- Rings: none
- Average temperature: 15°

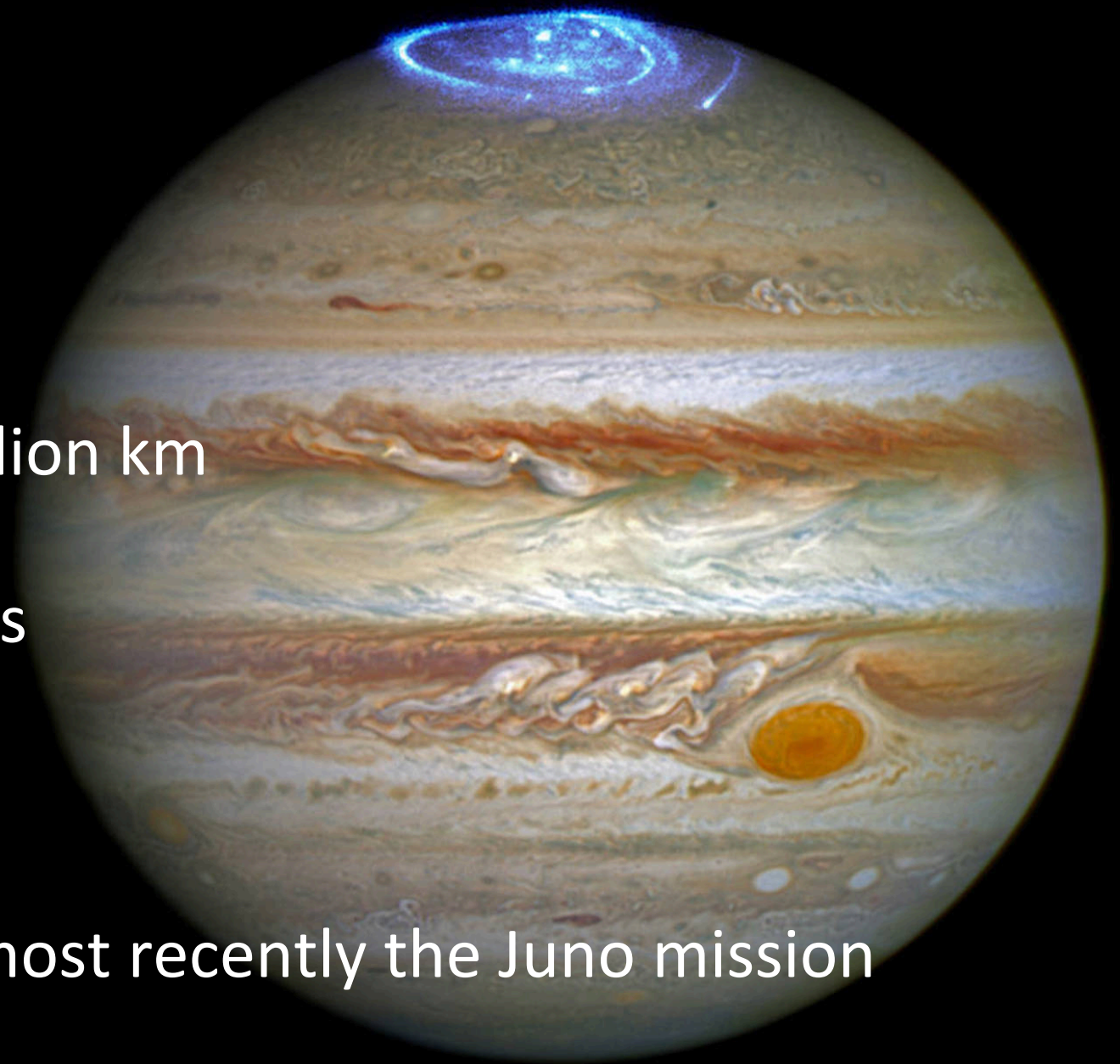


Mars

- Radius: 3390 km
- Mass: 0.107 Earths
- Distance from Sun: 228 million km
- Day length: 24hrs and 40 mins
- Year length: 687 days
- Number of moons: 2 Phobos and Deimos
- Rings: none
- Max temperature: 35°
- Min temperature: -143°
- Missions: Many flybys, orbiters and even the Mars Rover.

Jupiter

- Radius: 69911 km
- Mass: 318 Earths
- Distance from Sun: 778 million km
- Day length: 10hrs
- Year length: ~12 Earth years
- Number of moons: 67
- Rings: 4 sets of rings
- temperature: -108°
- Missions: Many missions, most recently the Juno mission



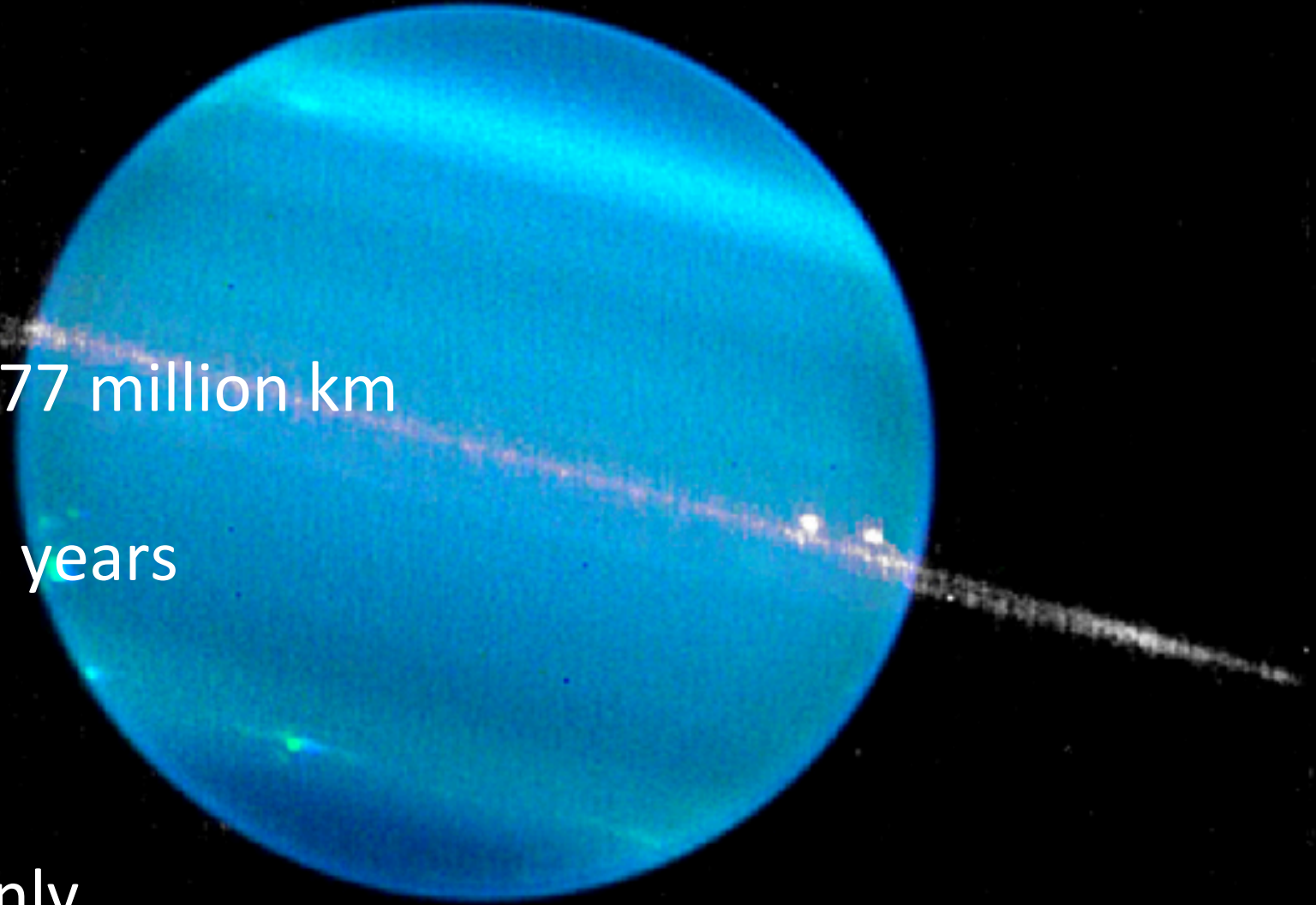


Saturn

- Radius: 58232 km
- Mass: 95 Earths
- Distance from Sun: 1429 million km
- Day length: 10.7 hrs
- Year length: ~29 Earth years
- Number of moons: 62
- Rings: 7 rings
- temperature: -139°
- Missions: Pioneer 11, Voyager 1 and 2, Cassini-Huygens

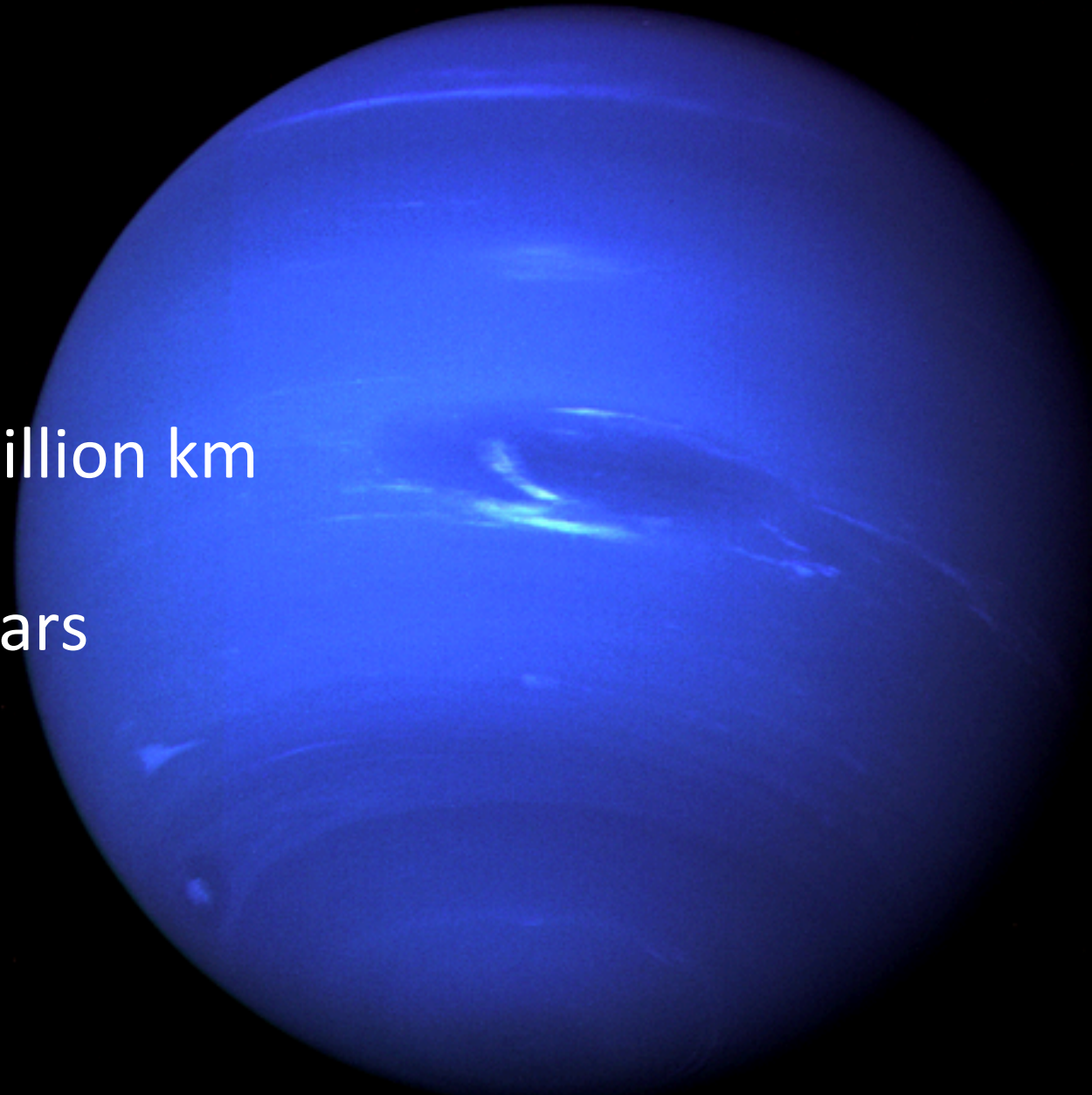
Uranus

- Radius: 25362 km
- Mass: 14.5 Earths
- Distance from Sun: 2877 million km
- Day length: 17 hrs
- Year length: ~84 Earth years
- Number of moons: 27
- Rings: 13 rings
- temperature: -197°
- Missions: Voyager 2 only



Neptune

- Radius: 24622 km
- Mass: Earths
- Distance from Sun: 4498 million km
- Day length: 16 hrs
- Year length: ~ 165 Earth years
- Number of moons: 14
- Rings: 6 rings
- temperature: -201°
- Missions: Voyager 2 only



The Sun

- 99.8% of the mass of the solar system
- It is not a solid body so the equator and poles rotate at different rates
 - At the equator once every 25 days and at the poles once every 36 days
- The Sun is an average star but is special to us as it is the source of our energy

