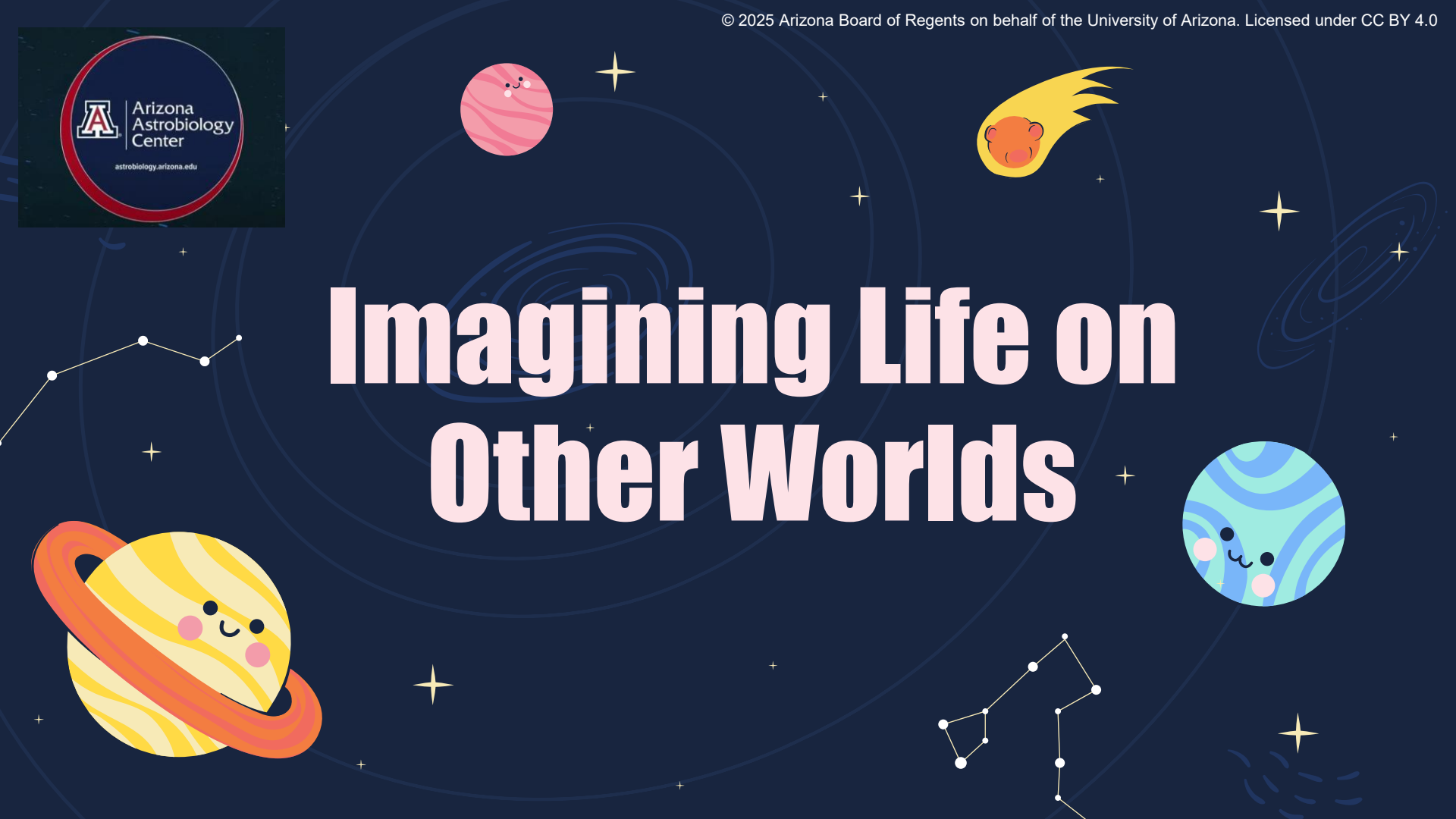




Imagining Life on Other Worlds



Venus



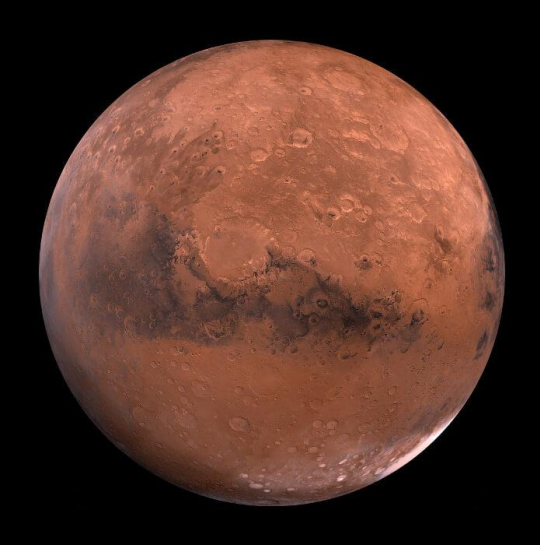
Galaxy: Milky Way

Sun: Our Sun! Located in our solar system

Distance from Earth: 31 million miles (travel time 2-3 months)

Venus's surface is too hot and dangerous for the kinds of living things we know about, but its big clouds might be a good place for tiny floating life to live.

Mars



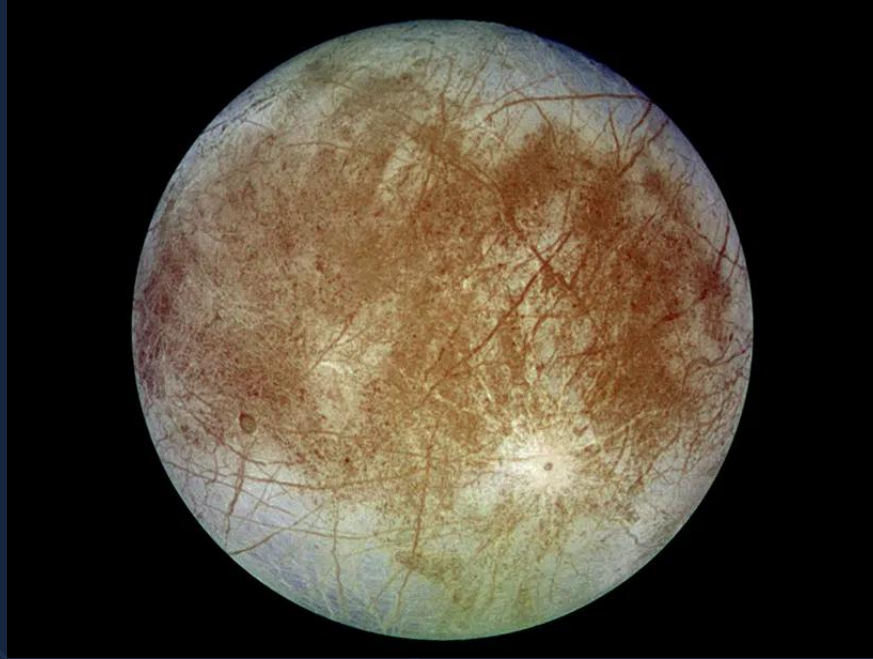
Galaxy: Milky Way

Sun: Our Sun! Located in our solar system

Distance from Earth: 140 million miles (travel time 6-9 months)

If life exists on Mars, it might survive the Sun's intense radiation by living in underground ice caves.

Europa



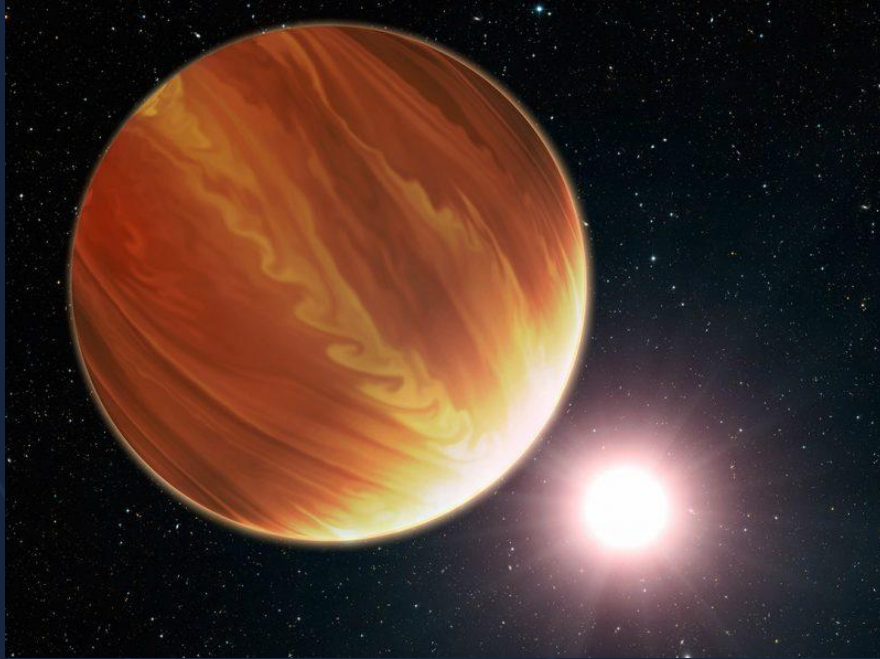
Galaxy: Milky Way

Sun: Our Sun! Located in our solar system

Distance from Earth: 390 million miles (travel time 2 years)

+ This one of Jupiter's moons. Its very thick icy surface might hide a huge ocean underneath. +

Tylos



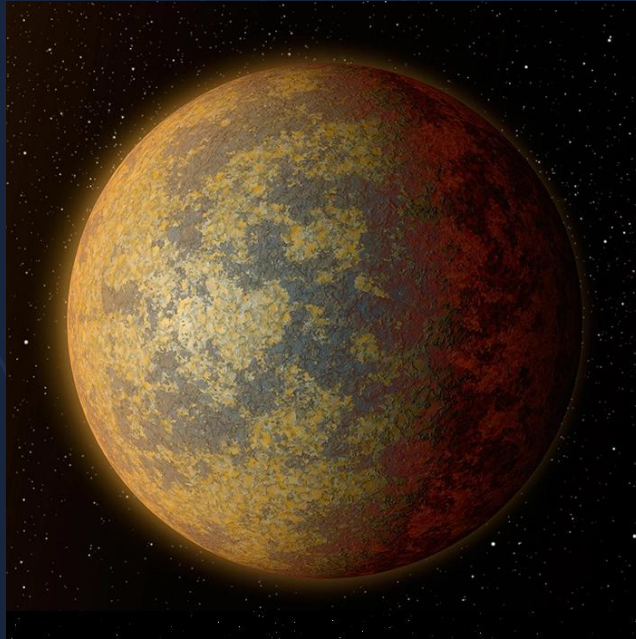
Galaxy: Milky Way

Sun: WASP-121

Distance from Earth: 900
light-years

This planet has oceans of lava and sparkly clouds that rain down lava.

HD 34445b



Galaxy: Milky Way

Sun: GW Orionis

Distance from Earth: 1,300
light-years

This planet has **THREE** suns! It gets a lot of sunlight.

Proxima Centauri b



Galaxy: Milky Way

Sun: Proxima Centauri (the closest solar system to our own)

Distance from Earth: 4.2 light-years

This desert planet is tidally locked. This means one side is always sunny and hot, while the other side is always dark and cool.

OGLE-2005-BLG-390Lb

(nicknamed "Hoth" by NASA)



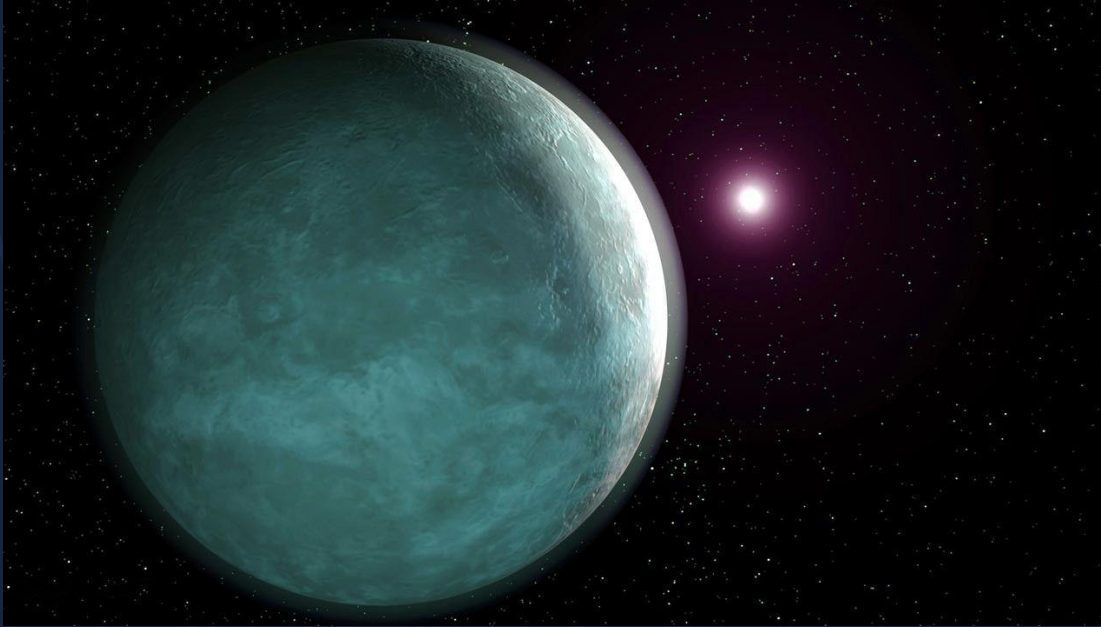
Galaxy: Milky Way

Sun: OGLE-2005-BLG-390

Distance from Earth: 21,500
light-years

This planet is mostly covered in ice, but there is a chance that there might be enough liquid water to support life!

TOI-2257b



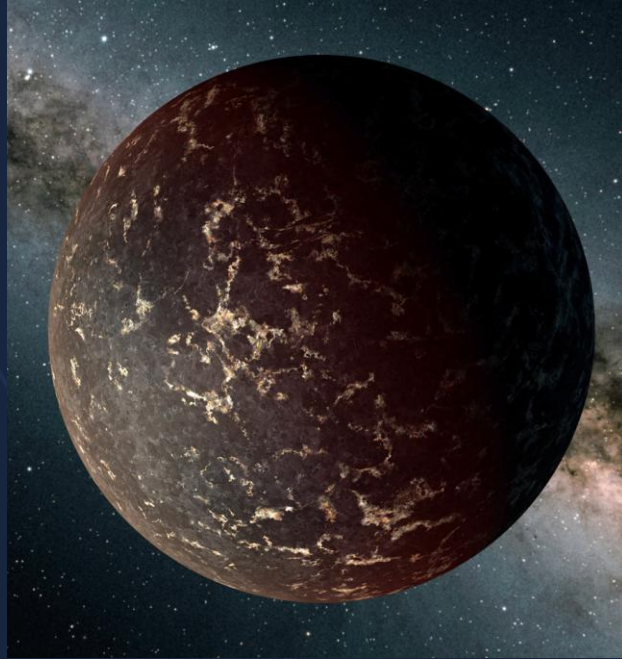
Galaxy: Milky Way

Sun: TOI-2257

Distance from Earth: 188
light-years

This planet has an oval-shaped orbit, which gives it extremely hot summers and extremely cold winters.

Kua'kua



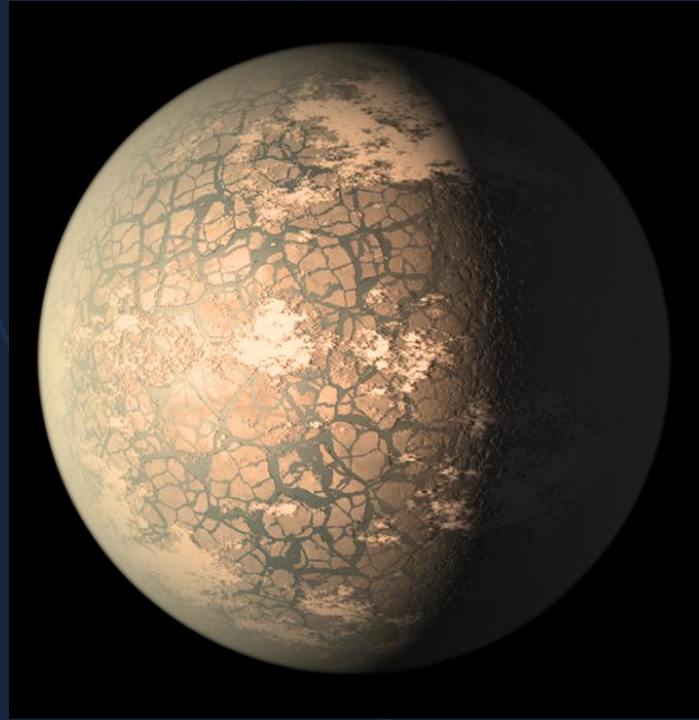
Galaxy: Milky Way

Sun: LHS 3844

Distance from Earth: 48.5
light years

The intense gravity from this planet's sun
causes constant earthquakes.

TRAPPIST 1F



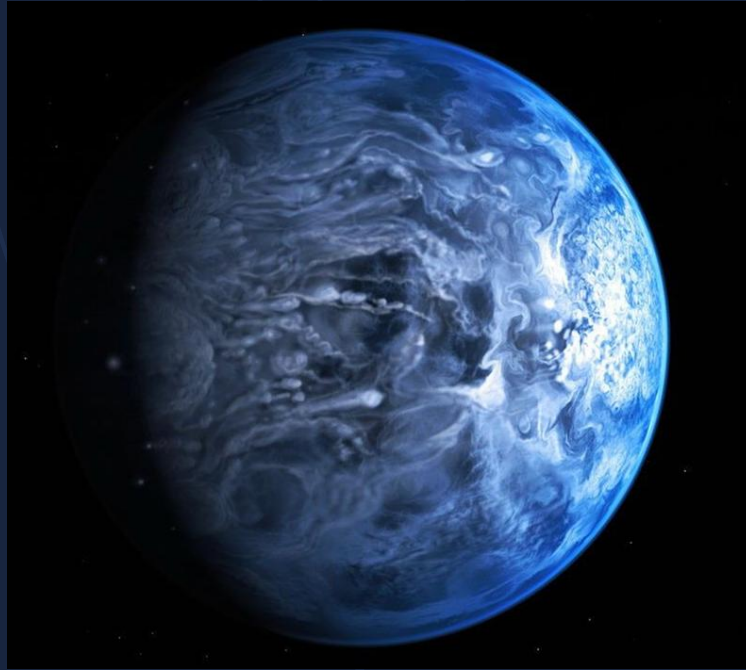
Galaxy: Milky Way

Sun: TRAPPIST-1

Distance from Earth: 39.46
light years

This planet's sun is a flare star. Every few days, its sun has a sudden, violent burst of energy and light, and then it goes back to normal again.

HD 189733 b



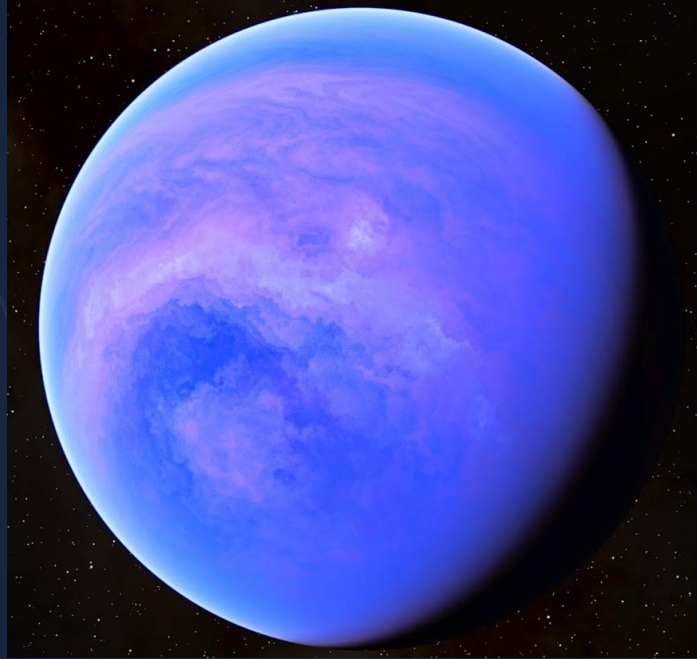
Galaxy: Milky Way

Sun: HD 189733 A

Distance from Earth: 63
light years

This planet has storms with 5,000 mph
winds, and clouds that rain shards of glass

Enaiposha



Galaxy: Milky Way

Sun: GJ 1214

Distance from Earth: 47
light years

This planet's atmosphere is made of thick, dense fog

+ 55 Cancri e



Galaxy: Milky Way

Sun: 55 Cancri

Distance from Earth: 40
light years

This planet's surface might be made of glittering diamonds.

Kepler-442b



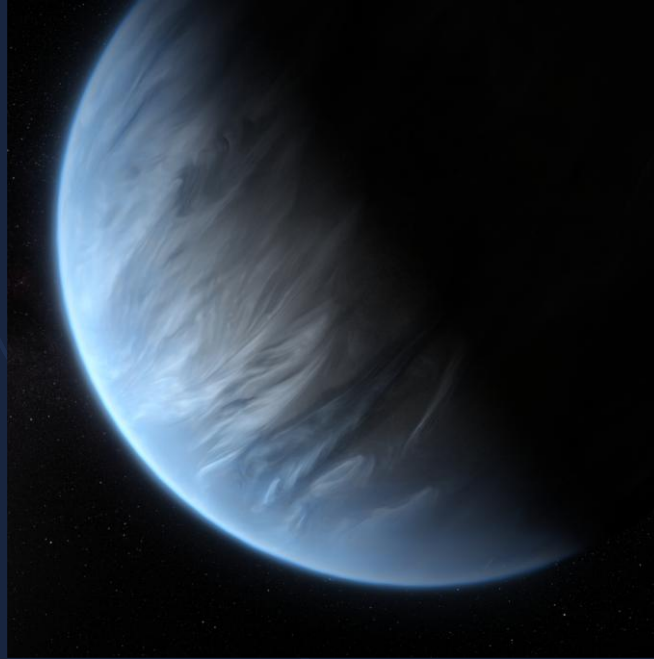
Galaxy: Milky Way

Sun: Kepler-442

Distance from Earth: 1,196
light years

This planet's star is very dim. There is not much light on the surface.

K2-18b



Galaxy: Milky Way

Sun: K2-18

Distance from Earth: 120
light years

This planet has no land at all. The surface is one big ocean.

PSO J318.5-22



Galaxy: Milky Way

Sun: No star, it's a rogue planet!

Distance from Earth: 80 light years

This planet has no star. It is always night. It has some heat from inside the planet, which makes it glow pink.