

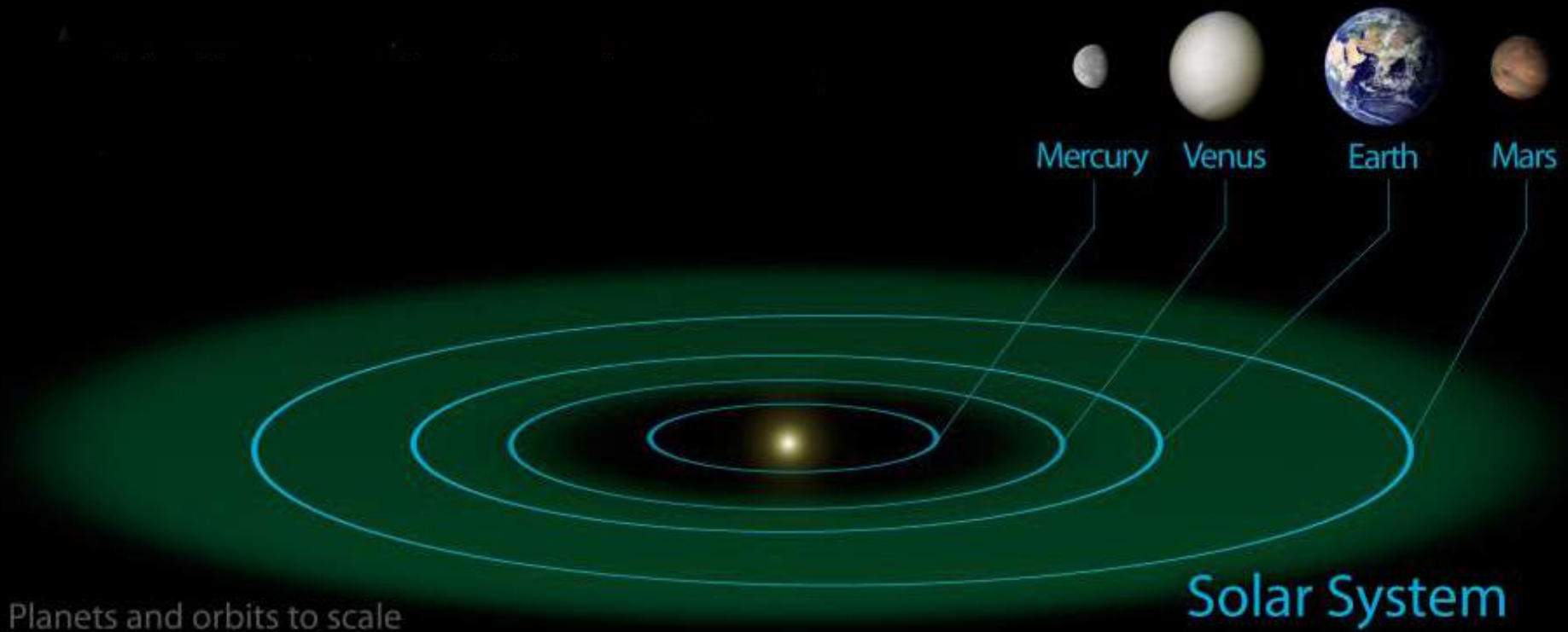


Week 5: The Habitable Zone

Habitable Zone

**Distance from a star at which
liquid water can exist on a
planet's surface.**

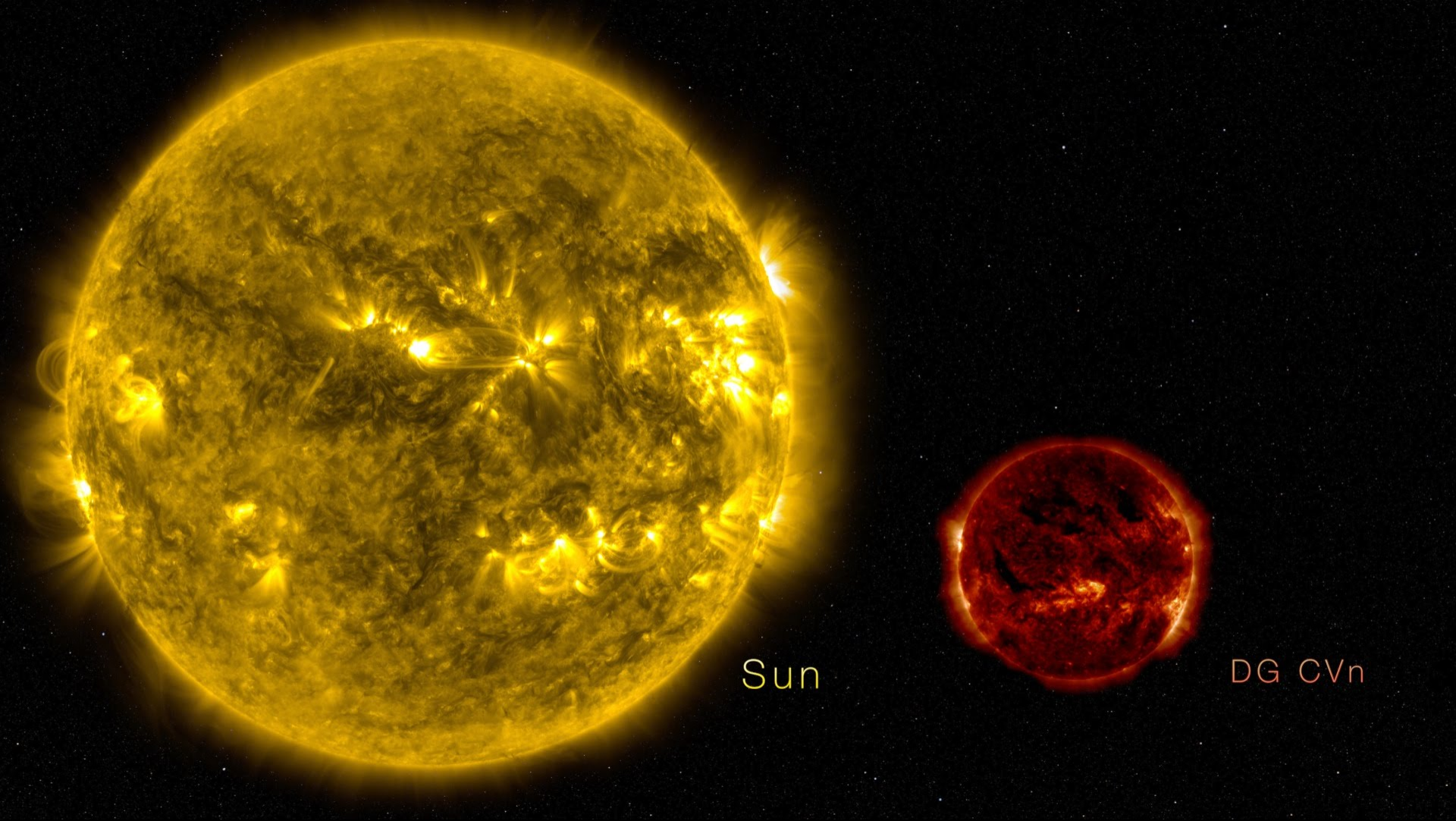
Solar System HZ



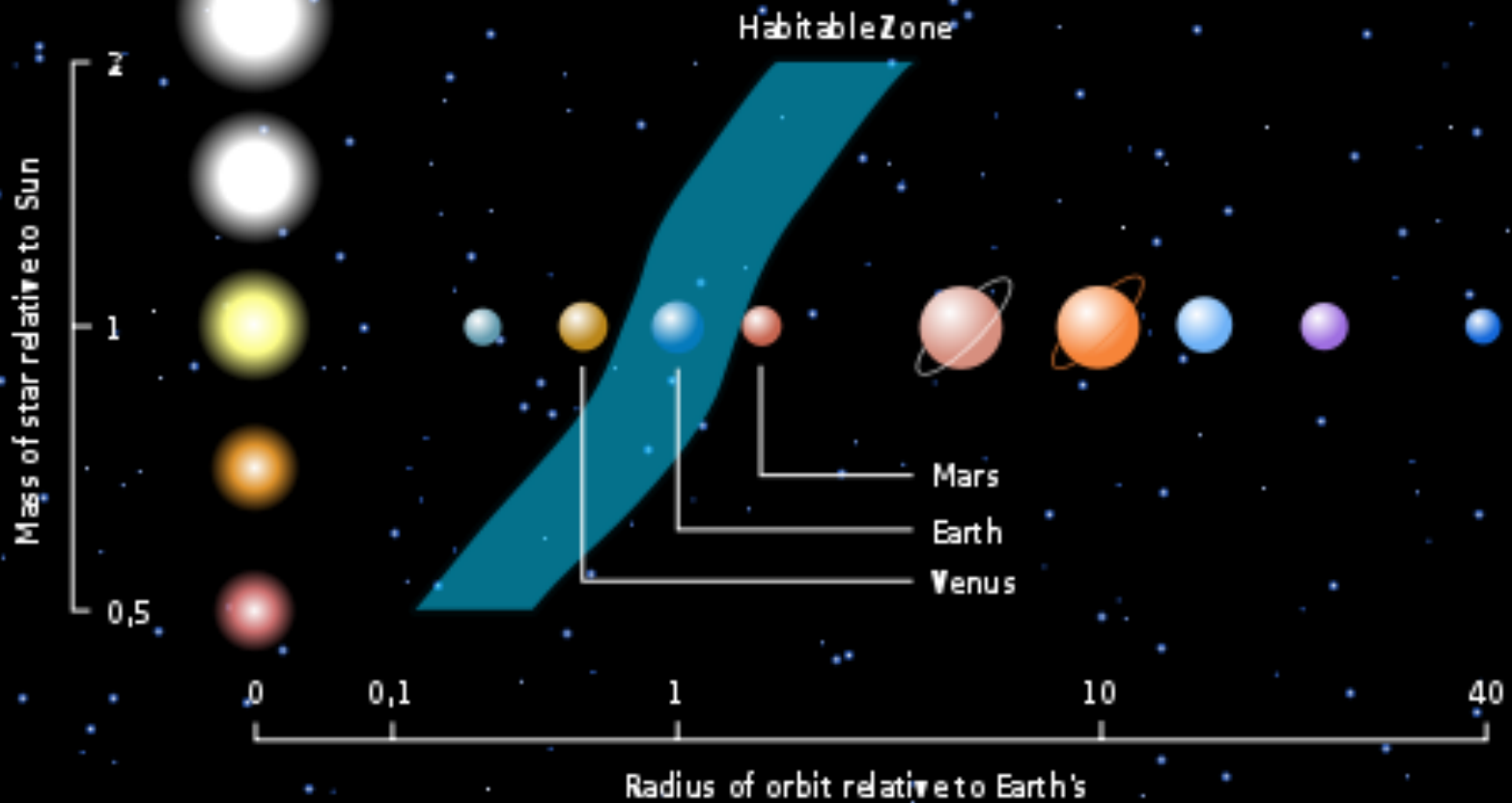
HZ Determination

Star properties vs.
Planet properties

HZ: Stellar Type



HZ: Stellar Type

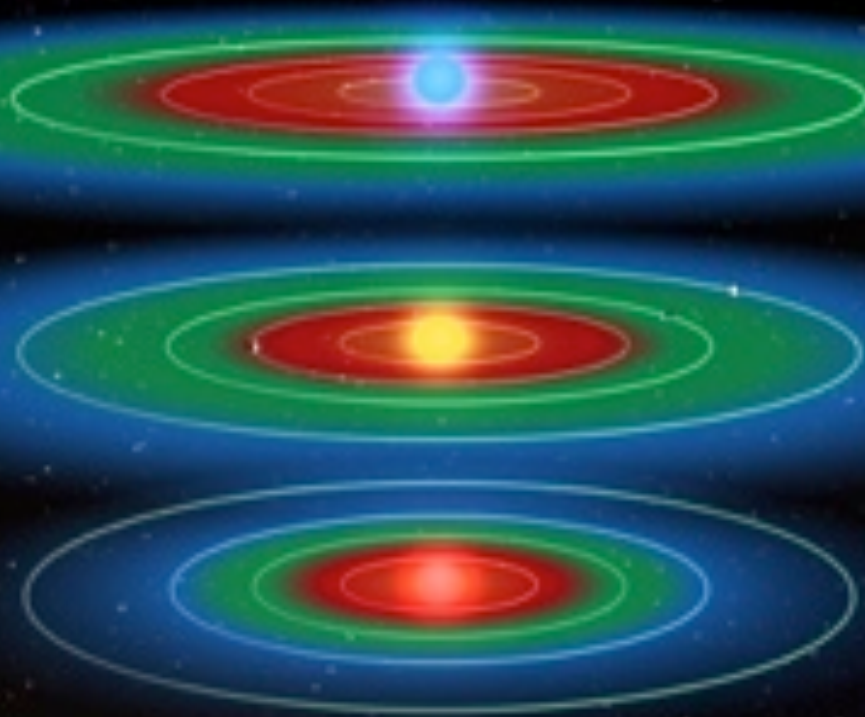


HZ: Stellar Type

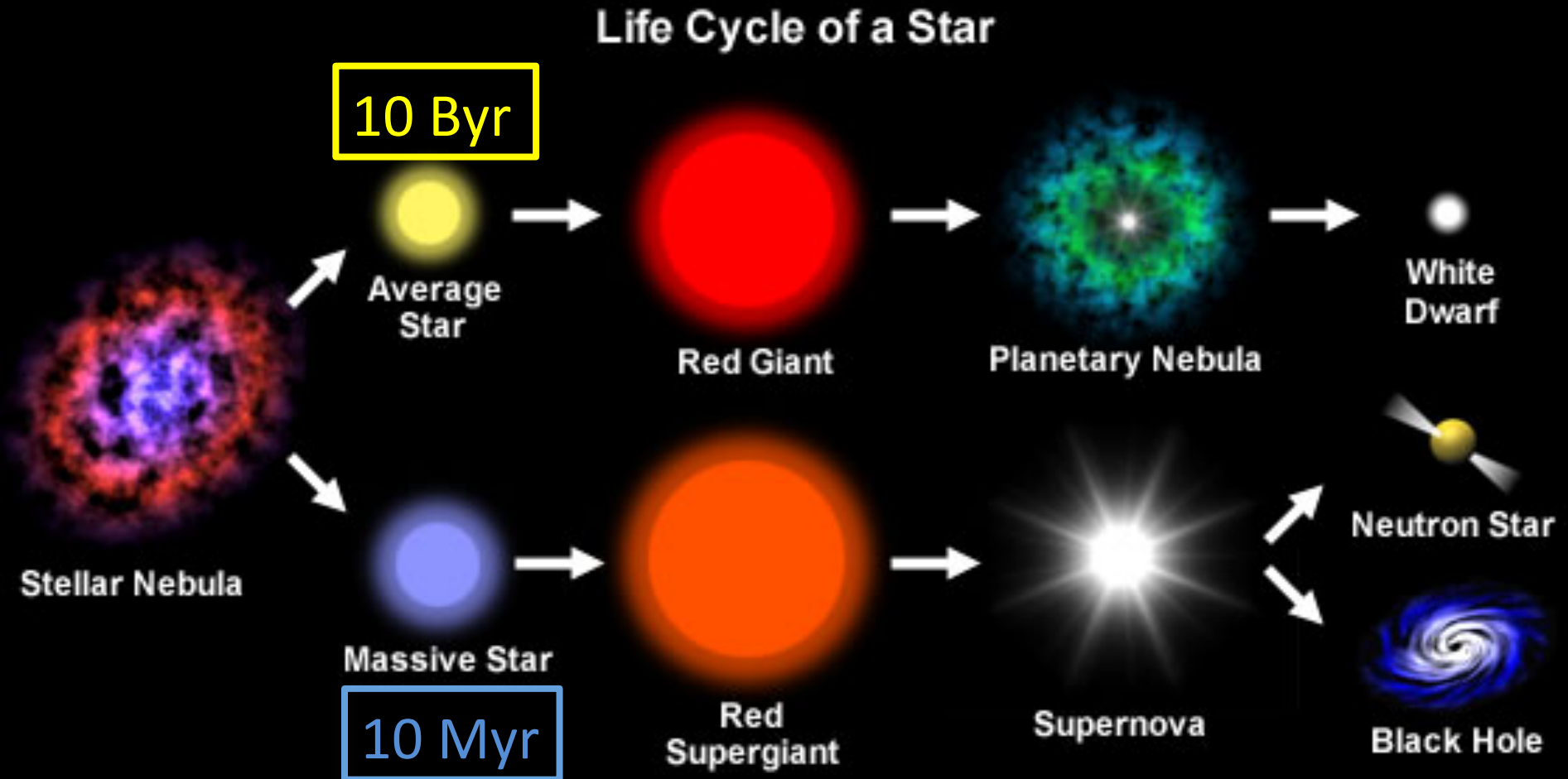
Hotter Stars

Sunlike Stars

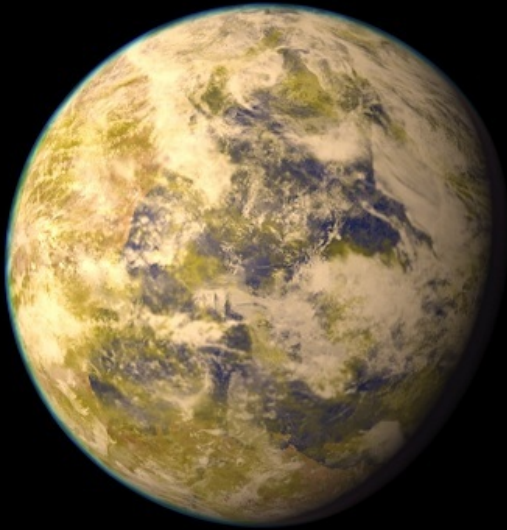
Cooler Stars



HZ: Stellar Stability



HZ: Planet Mass



Gliese 832 c

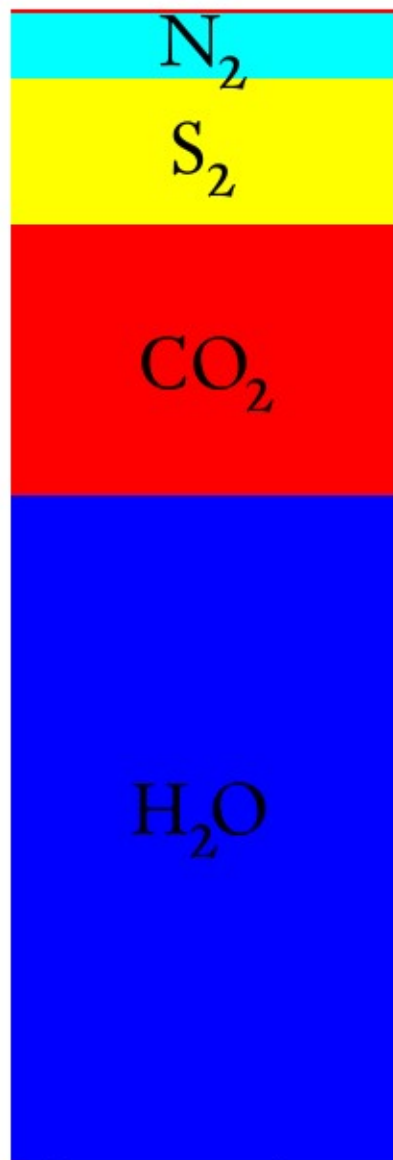


Earth

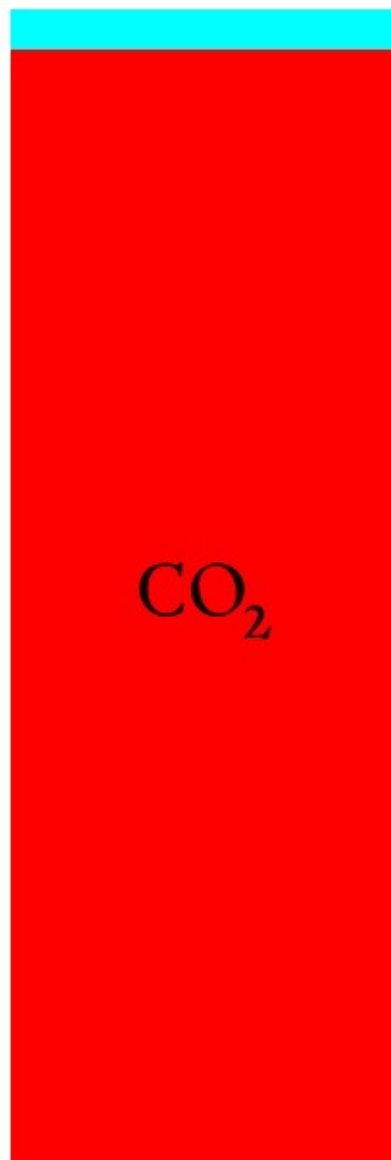


Mars

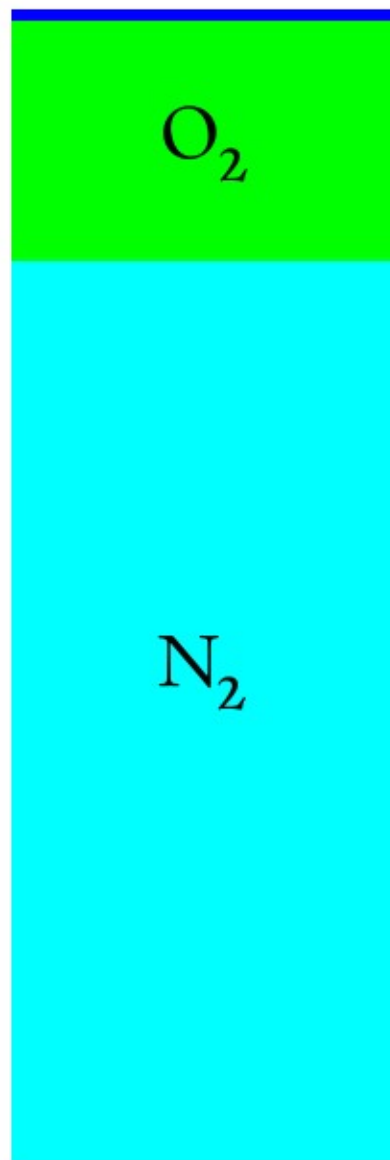
Terrestrial Atmospheres



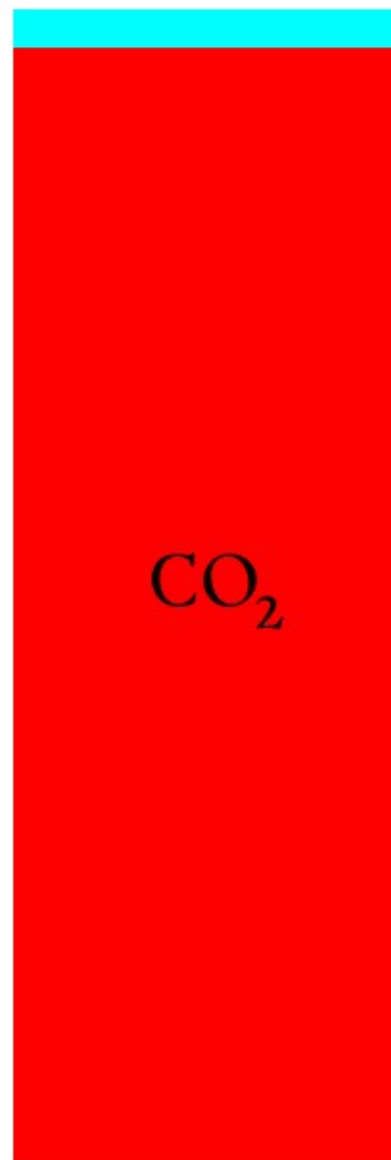
Outgassing



Venus



Earth

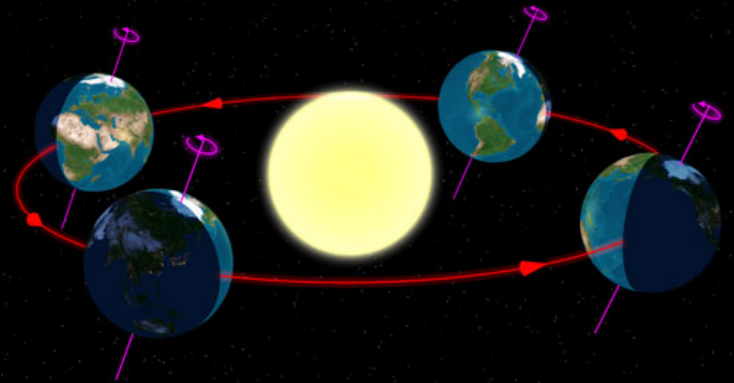


Mars

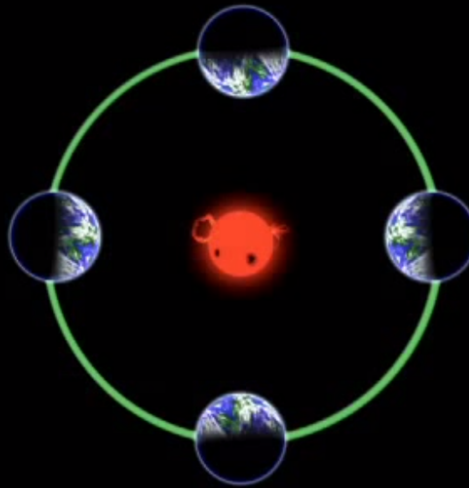
HZ: Planet Orbital Characteristics



Eccentricity



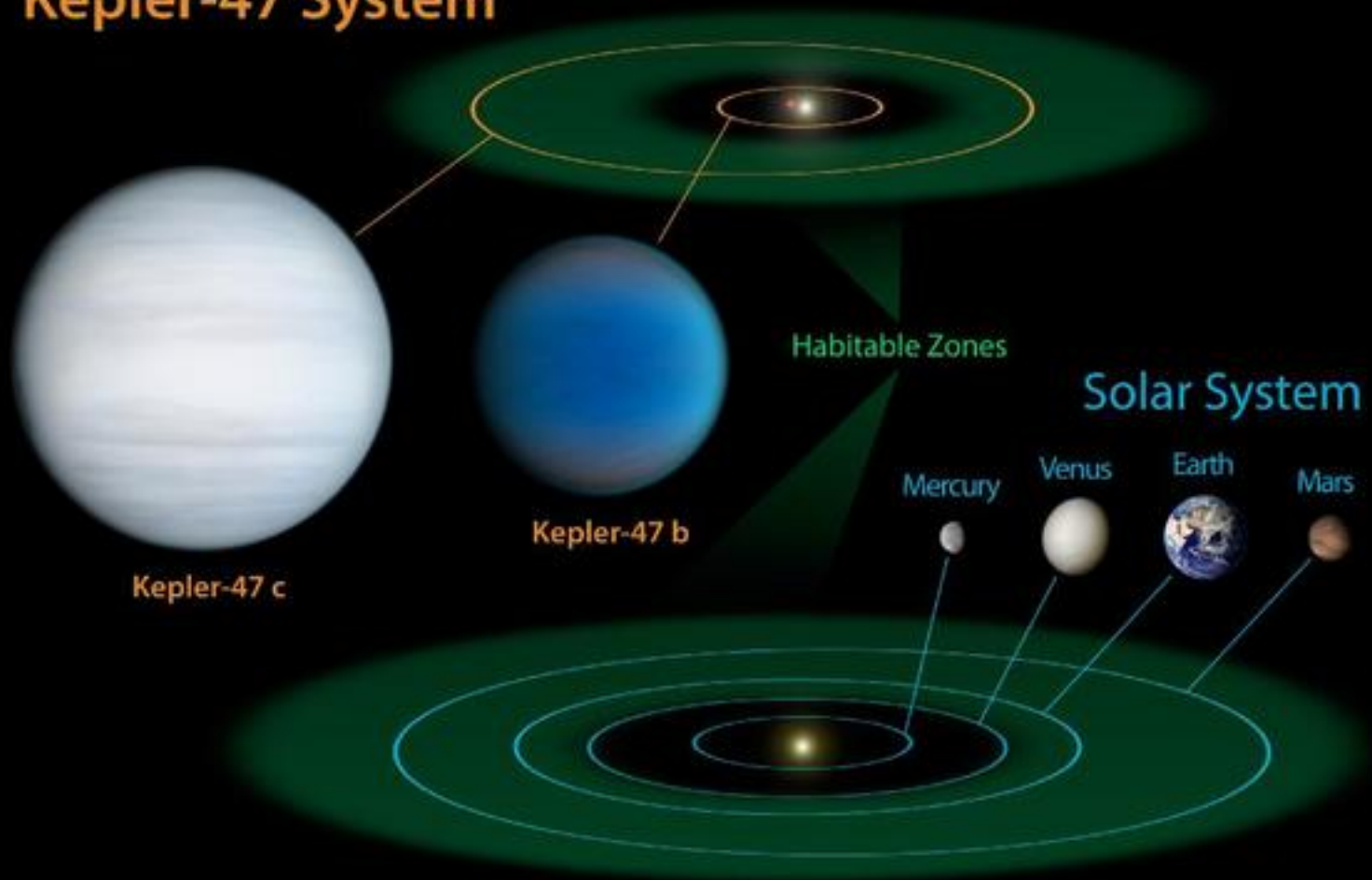
Axial Tilt



Rotation

Binary Stars

Kepler-47 System



Planets and orbits to scale

Habitable Exomoons?

