Your guide to exoplanet habitability: Is anyone home?

**Stars**
- Activity: Some stars are more active than others.
  - Stars release UV light, X-rays, and harmful to life.
  - Some stars may be good for life, others may just be too extreme.

**Planets**
- Orbits: How and where a planet orbits its star is very important for its habitability.
- CO2: The movement of molten iron core is important for keeping oceans of liquid water.
- Water: Water is essential for life.
  - Some planets may have vast oceans hidden beneath their surface.

**Interior**
- Activity: Some stars are more active than others.
  - Stars release UV light, X-rays, and harmful to life.
  - Some stars may be good for life, others may just be too extreme.

**Atmosphere**
- Temperature: The larger the ice caps, the colder the atmosphere.
  - Ice caps help regulate the climate of a planet by reflecting energy.
- CO2: Ice caps help regulate the climate of a planet by reflecting energy.

**Surface**
- Climate: Some planets may be too extreme, too hot to support life.
  - Some planets may be too extreme, too cold to support life.
- Ocean: Deep oceans can protect early life from dangerous activity from the star.
  - Deep oceans can protect early life from dangerous activity from the star.

**Water**
- Ice Caps: The larger the ice caps, the colder the atmosphere.
  - Ice caps help regulate the climate of a planet by reflecting energy.

**Comet**
- Orbit: Some comets may have vast oceans hidden beneath their surface.
  - Some comets may have vast oceans hidden beneath their surface.

**Habitability**
- Size: Some planets may be too extreme, too hot to support life.
  - Some planets may be too extreme, too cold to support life.
- Age: Some planets may be too extreme, too hot to support life.
  - Some planets may be too extreme, too cold to support life.

**What We Know**
- Earth-like planets are likely found in close to their volatile hosts.
  - Any life could form if the core is molten.
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  - Any life could form if the core is molten.

**Your Guide to Exoplanet Habitability: Is Anyone Home?**
- Billions of Years: The timeline of exoplanet habitability.
  - Billions of Years: The timeline of exoplanet habitability.
- Stability: The stability of each planet's orbit is important for its habitability.
  - The stability of each planet's orbit is important for its habitability.

**Conclusion**
- Some planets may be too extreme, too hot to support life.
  - Some planets may be too extreme, too cold to support life.
- Some planets may be too extreme, too hot to support life.
  - Some planets may be too extreme, too cold to support life.

**References**
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- Wade Henning and Joshua Schlieder.
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