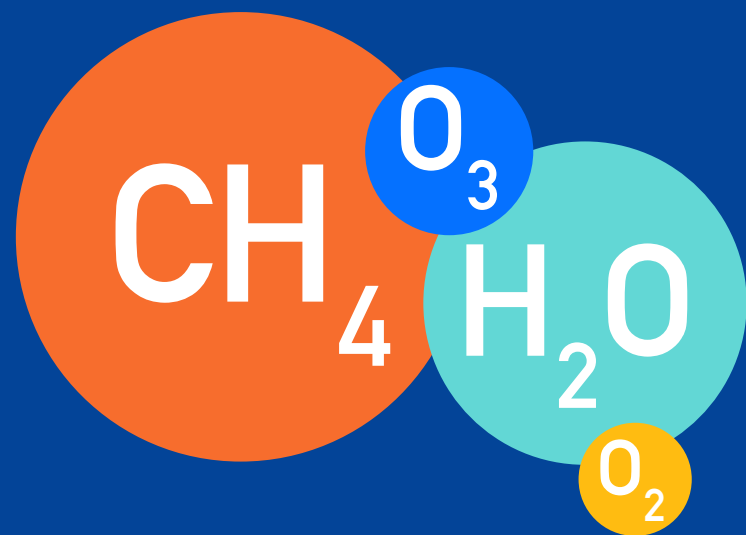


IS ANYONE HOME?

Your guide to exoplanet
habitability
(for life as we know it)

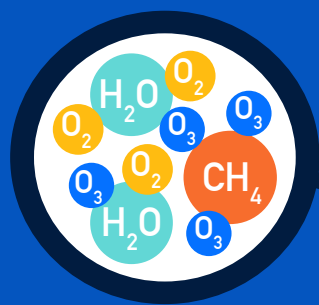


ATMOSPHERE

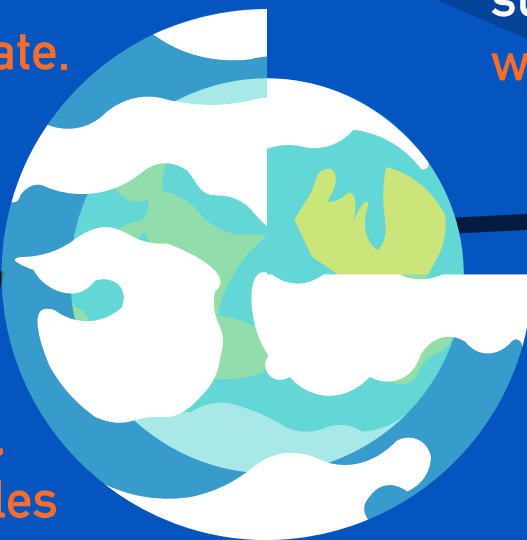
TEMPERATE CLIMATE

To keep **oceans of liquid water**, a planet requires a **temperate climate**.

This means an atmosphere that supplies **the right amount of global warming**.



Water (H_2O), carbon dioxide (CO_2), methane (CH_4), clouds and particles all can impact surface temperature.



Detecting **gases that are made by life** is one way we could confirm a planet's habitability

SOURCES

Based on "Impact of Space Weather on Climate and Habitability of Terrestrial Type of Exoplanets," Airapetian et al. (2019).
Specific contributions from Ravi Kumar Kopparapu,
Wade Henning and Joshua Schlieder.

