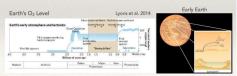
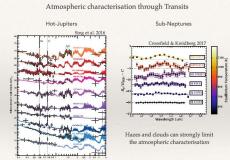


- Almost all atmospheres in the solar system present photochemical hazes /clouds. Most photochemical hazes are based on ${\it organic composition.}$
- Hazes/clouds have major implications for the thermal structure and dynamics of the
- Main amino acids are formed during experimental haze formation (e.g. Neish et al. 2018)
- On Earth they are a major concern for climate and public health, while in the past they may have affected the *emergence of life* (Trainer et al. 2005).

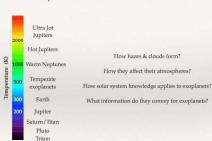
An interesting obstacle

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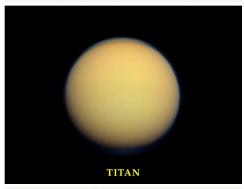
Atmospheric characterisation at different conditions



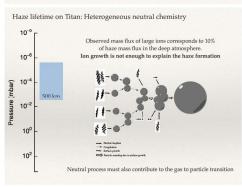
Solar System

Photochemical hazes in the solar system





RADIUS: 2757 km COMPOSITION: N2 (95%), CH4(5%) GRAVITY: 1.35 m/s² TRAPERATURE: 994 K SURFACE PRESSURE: 1.5 atm ORBIT: 10 AU



Cassini-Huygens Mission



