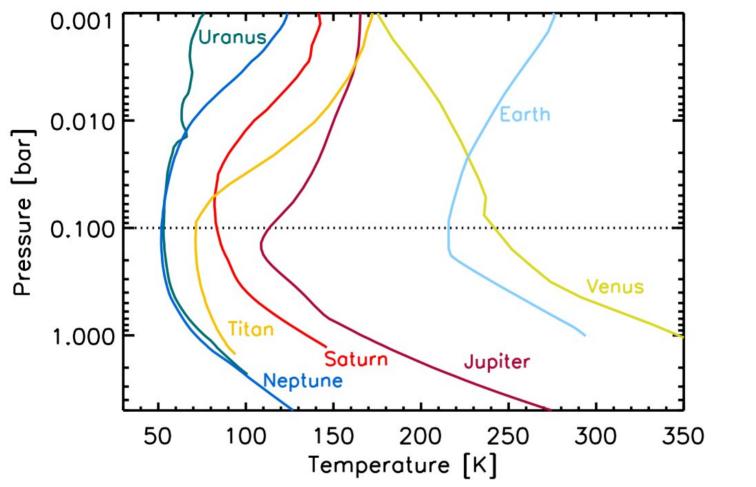
W13L1

ASTR 691: Convection

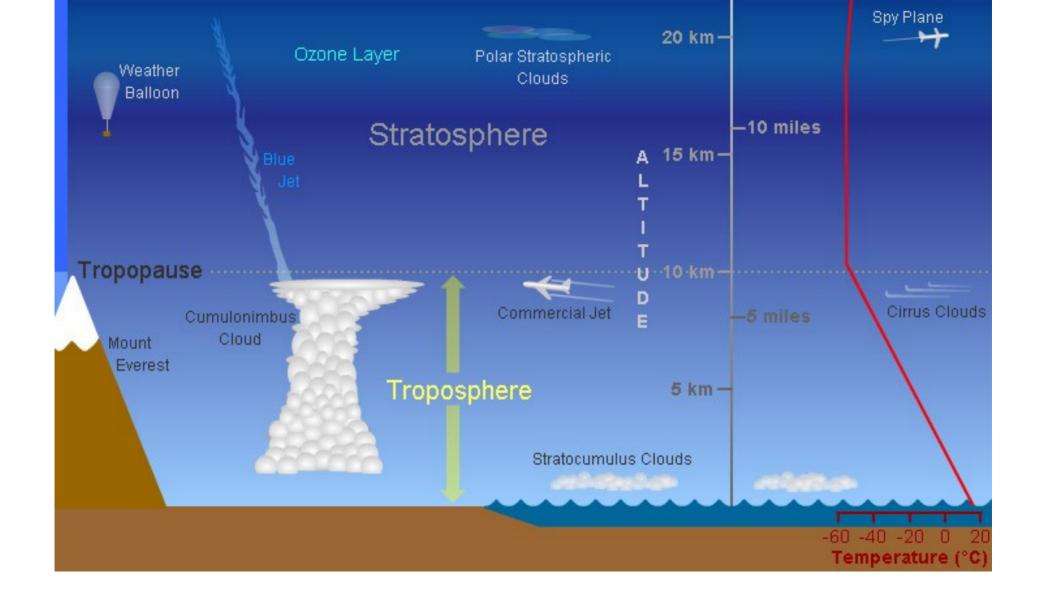


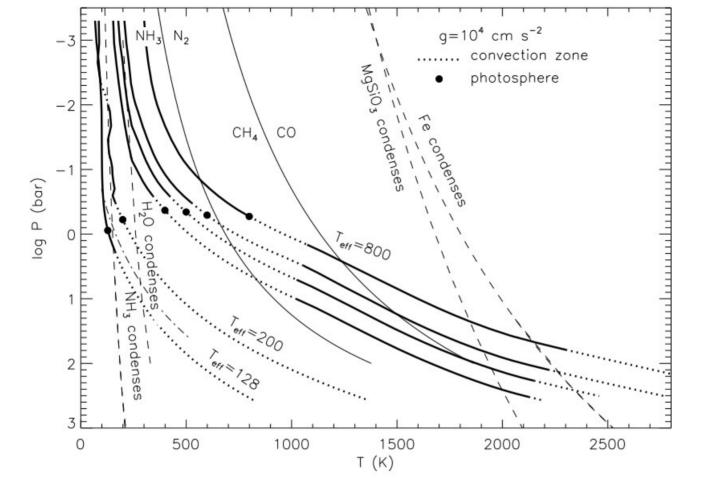
No convection higher up

Convection dominates lower down

Robinson & Catling (2014)

Figure 1 | **Temperature-pressure profiles for worlds in the Solar System with thick atmospheres**^{1-4,28}. *Temperature minima commonly occur around 0.1 bar. Venus has a very weak 0.1 bar tropopause in the global mean (see text). More information regarding data sources is given in the Supplementary Materials.*





Young, hot gas giants may have multiple convective & radiative zones.

FIG. 3.—Atmospheric pressure-temperature profiles for EGPs with surface gravity fixed at 10^4 cm s⁻² and $T_{eff} = 800$, 600, 500, 400, 200, and 128 K.