

# Neptune as an Astrophysical Object

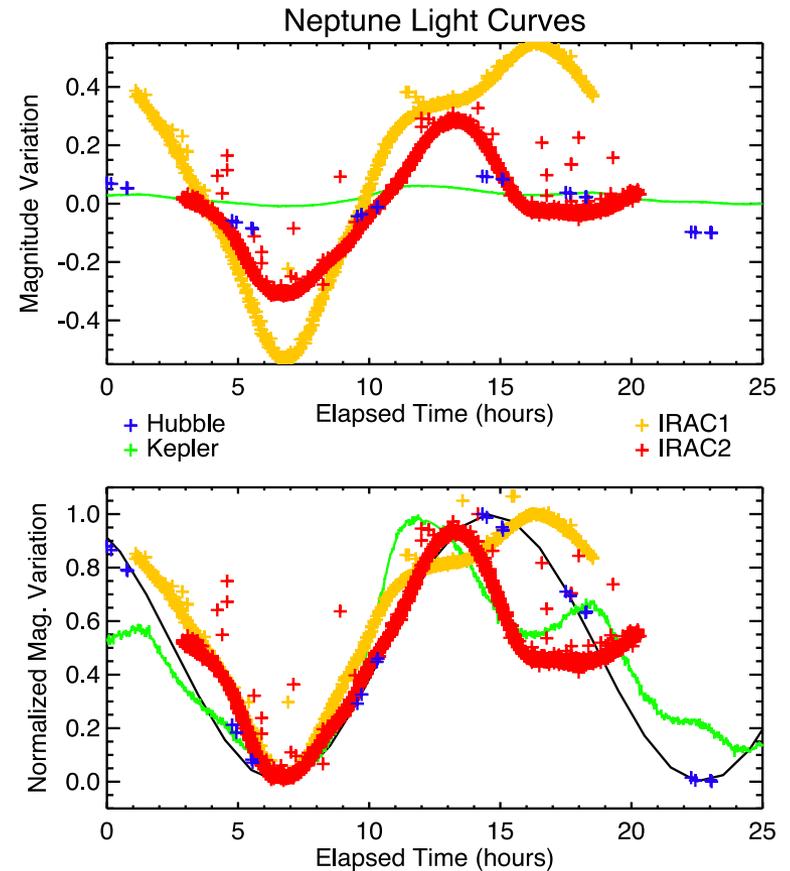
**What is the science question?** Why do unresolved stellar and exoplanet light curves vary on such short timescales?

**What are the findings?** Comparing Neptune emission variability data in the infrared (Spitzer/IRAC) with visible data from Kepler and Hubble shows that light curve variations can be matched to rapid evolution of large cloud features

**What is the impact?**

This insight is important for interpreting light curves from unresolved stellar objects and exoplanets

**Why does it matter to non-scientists?** We can better understand the movement of clouds on planets around other stars.



Amplitude of brightness variations are caused by wavelength sensitivity; only the very highest clouds are seen at visible wavelengths