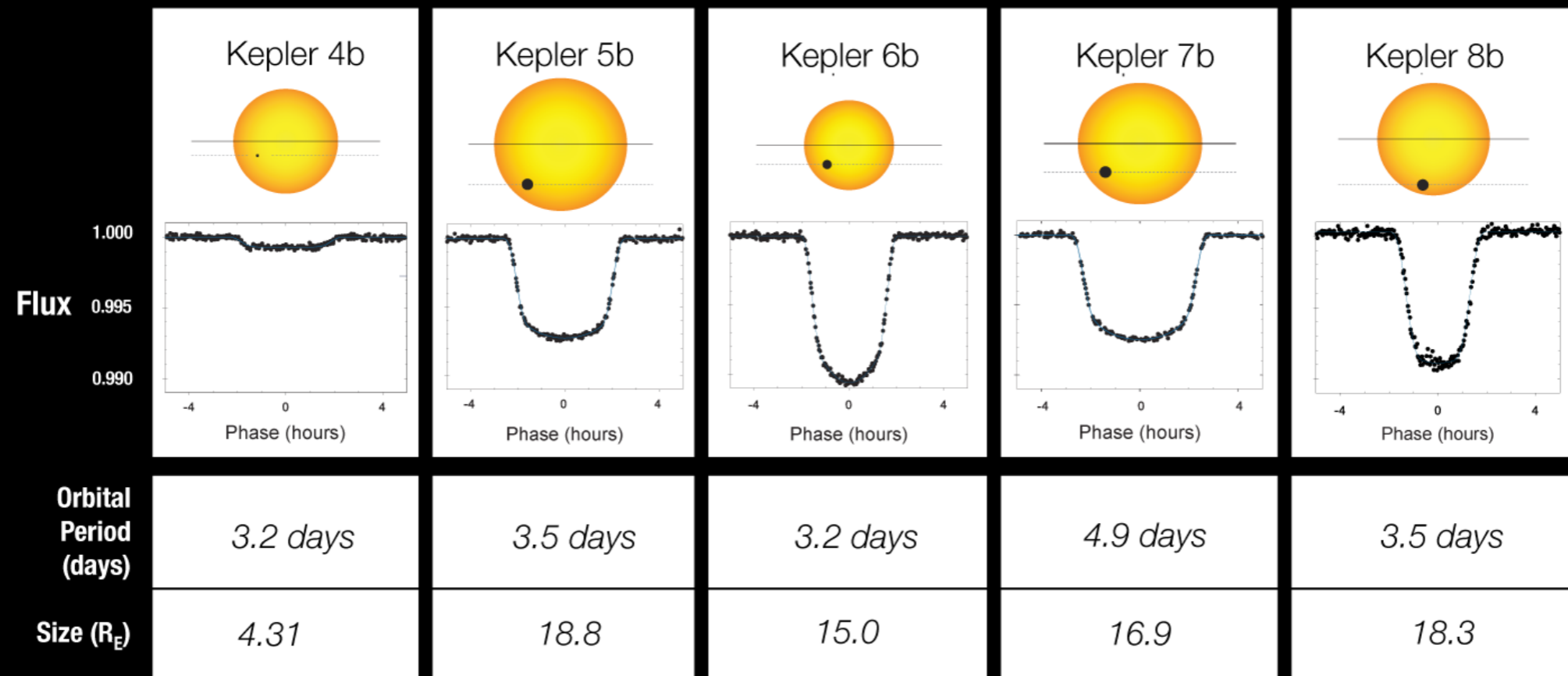
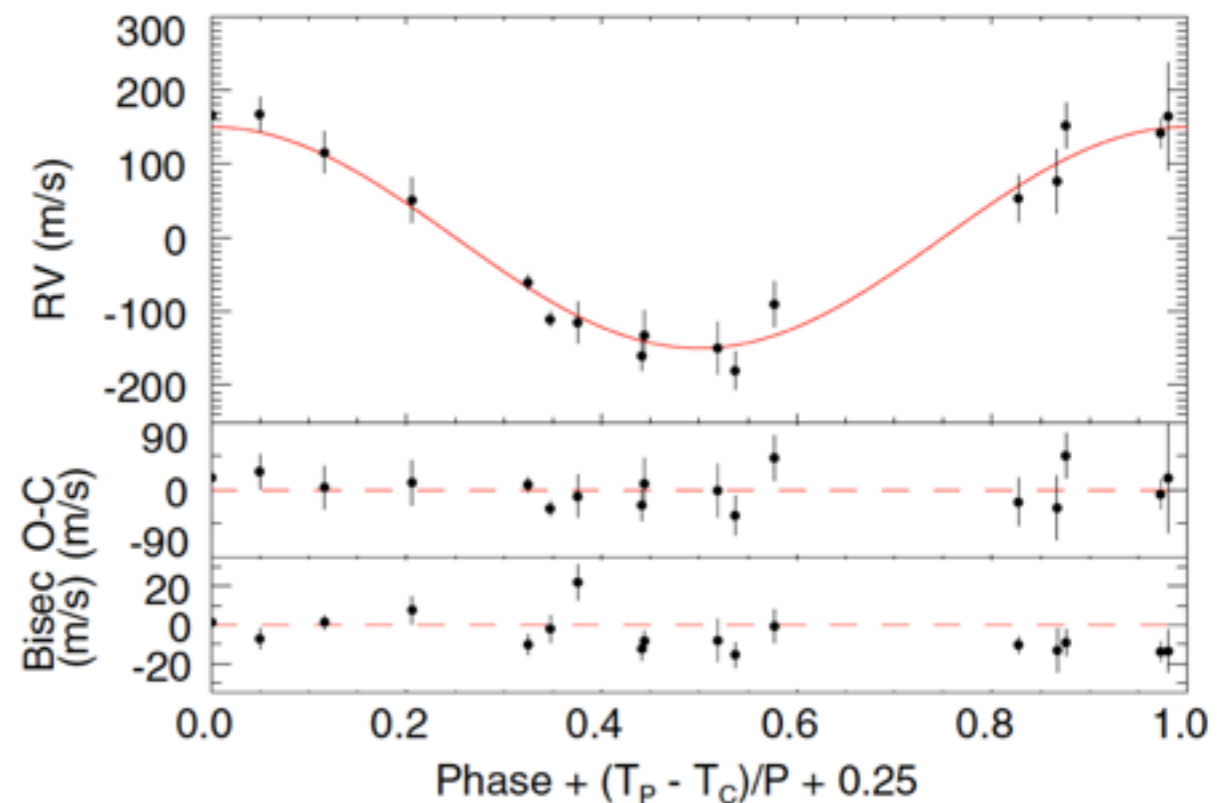
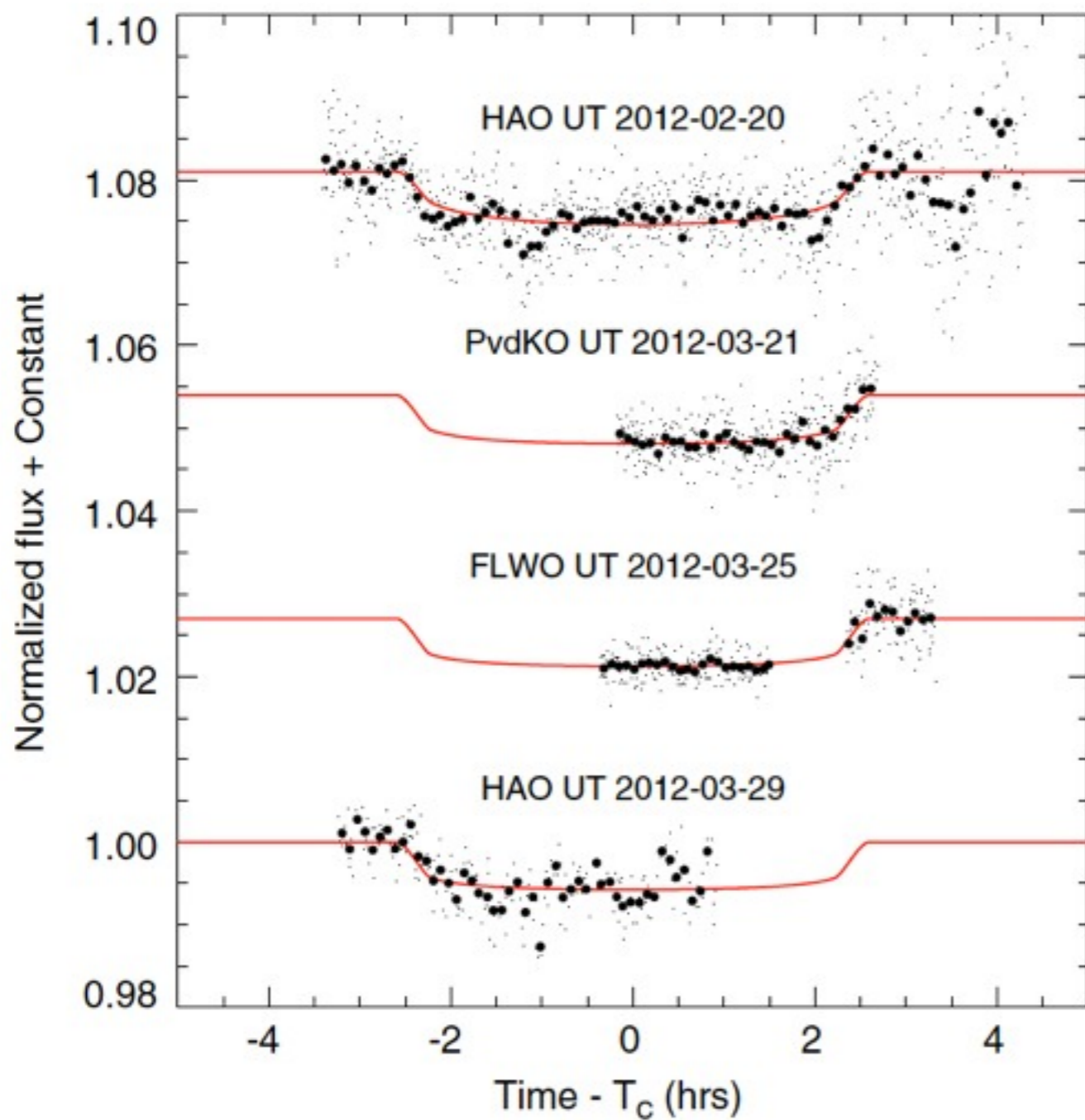
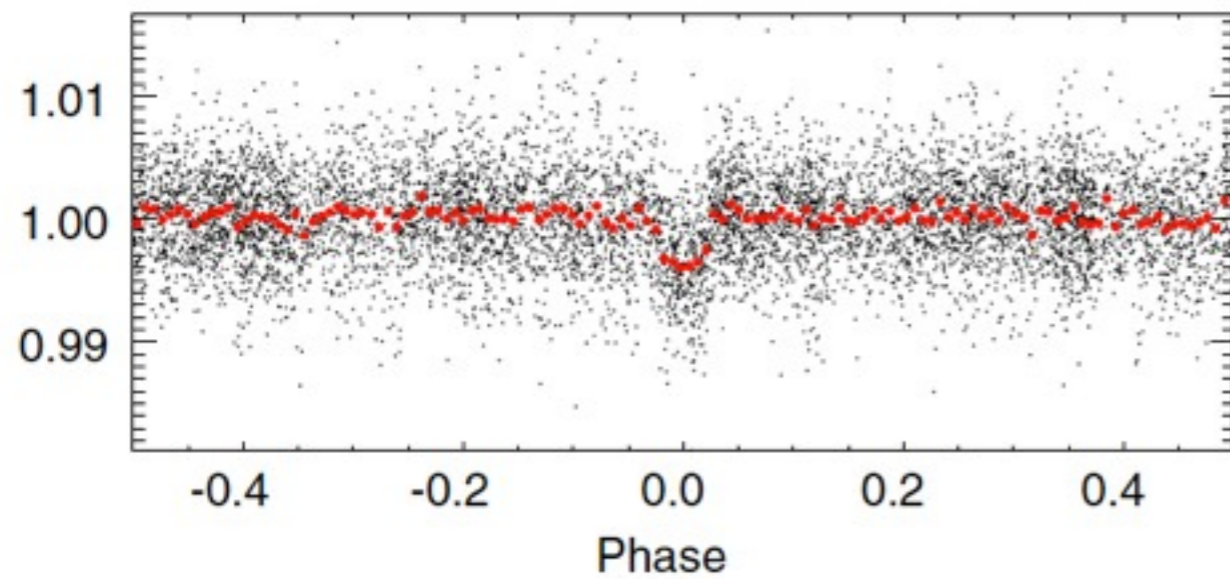


# Astro I: Introductory Astronomy

## Transit Light Curves

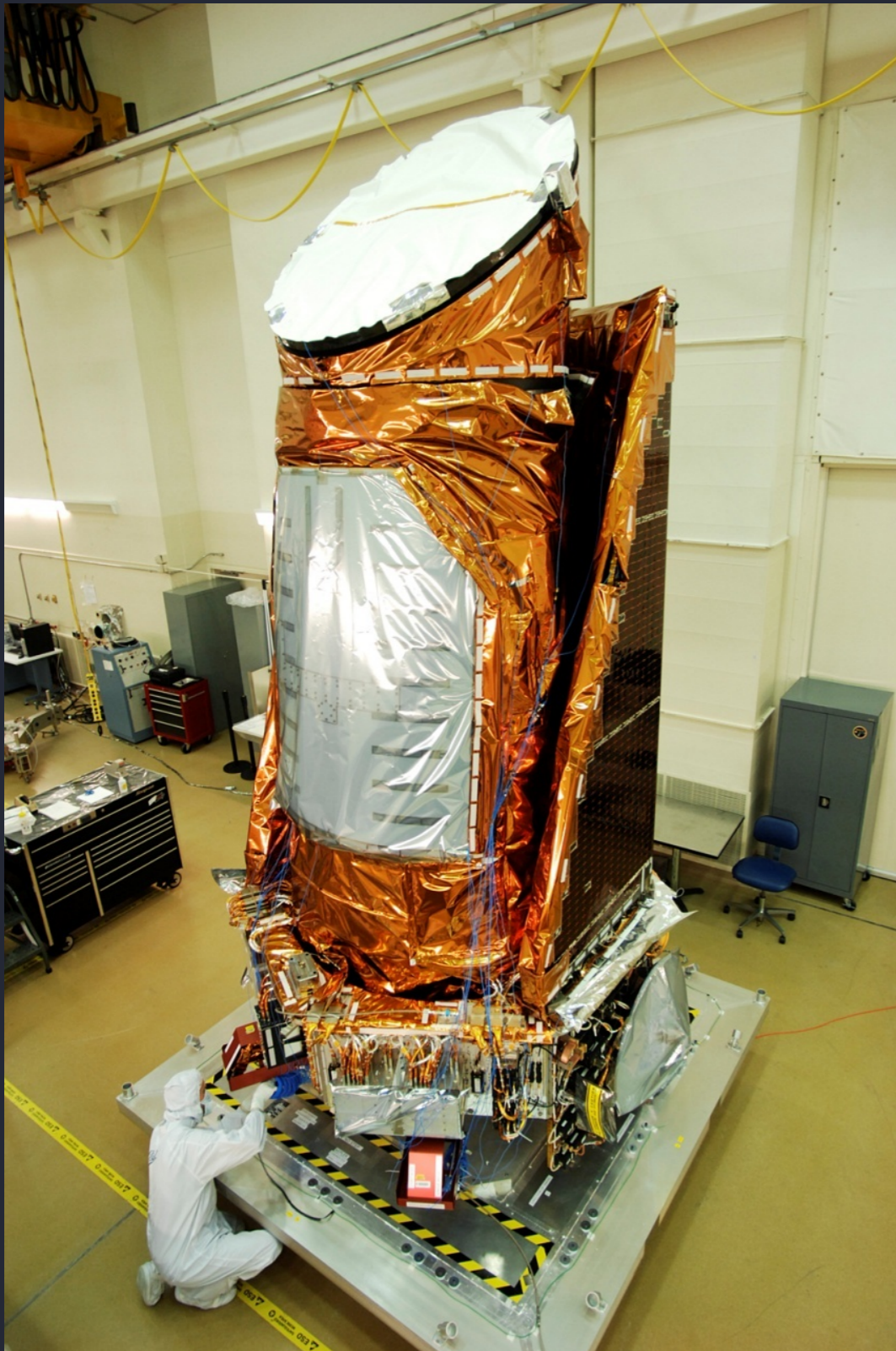




**Figure 1.** TRES radial velocity measurements of KELT-2A. The top panel shows the observations phased to our best orbital model, shown in red. We have removed the system's systemic velocity of  $47.5 \text{ km s}^{-1}$  and the best-fit slope. The middle panel shows the residuals of the radial velocity observations to our orbital fit, and the bottom panel shows the bisector span of each observation as a function of phase.

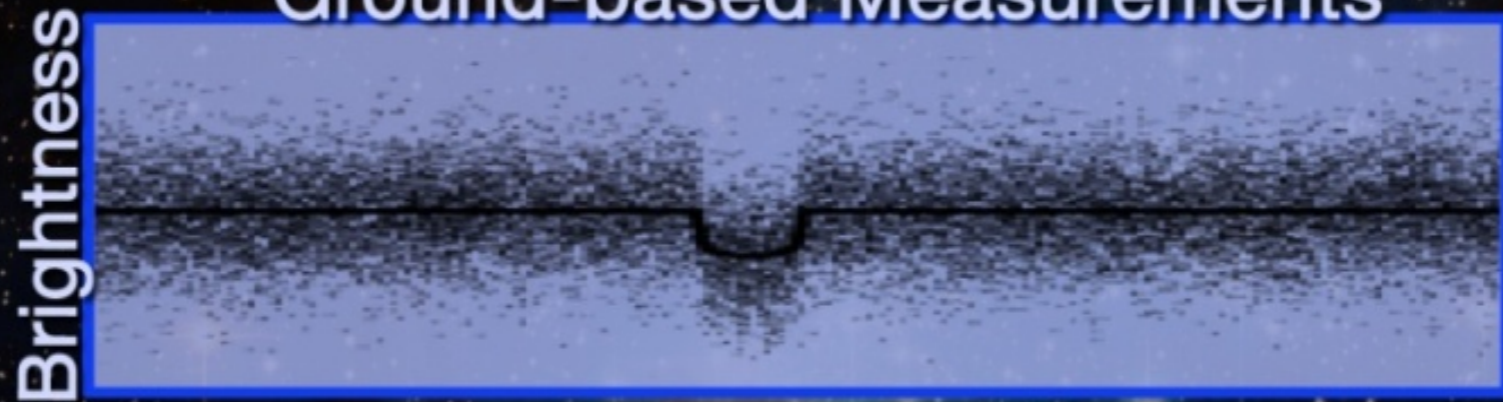
**Figure 2.** KELT-North discovery photometry (top panel), and then the follow-

# Kepler Mission (2009)

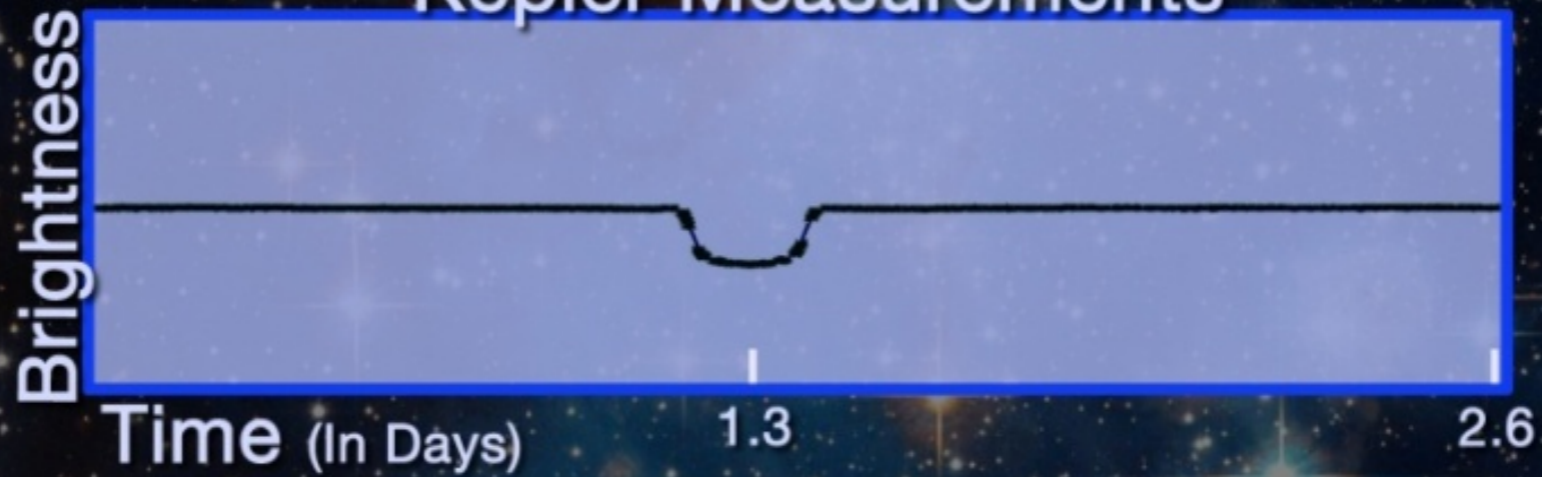


# HAT-P-7 Light Curves

Ground-based Measurements

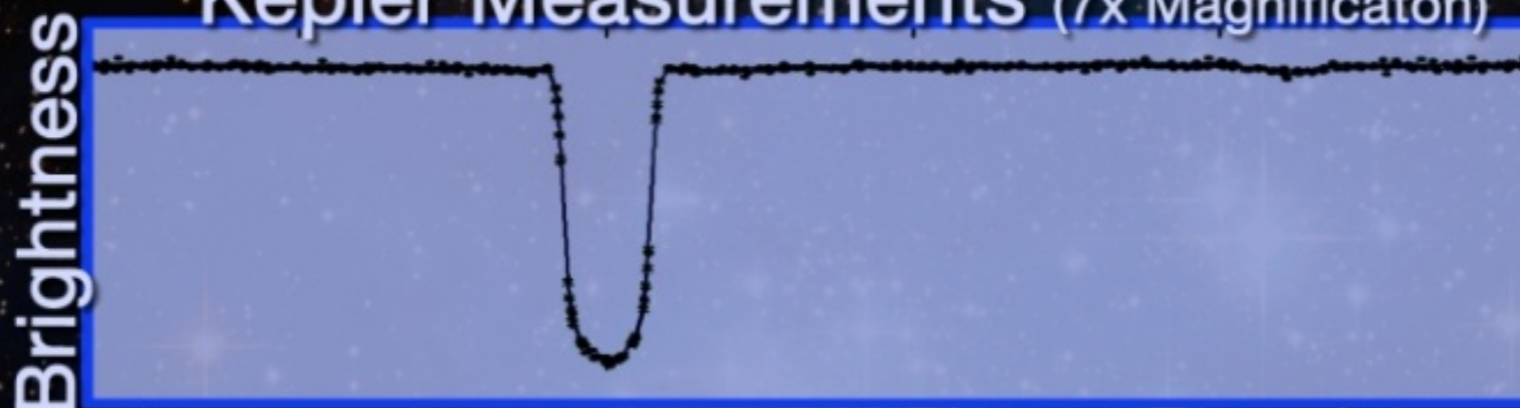


Kepler Measurements



# HAT-P-7 Light Curves

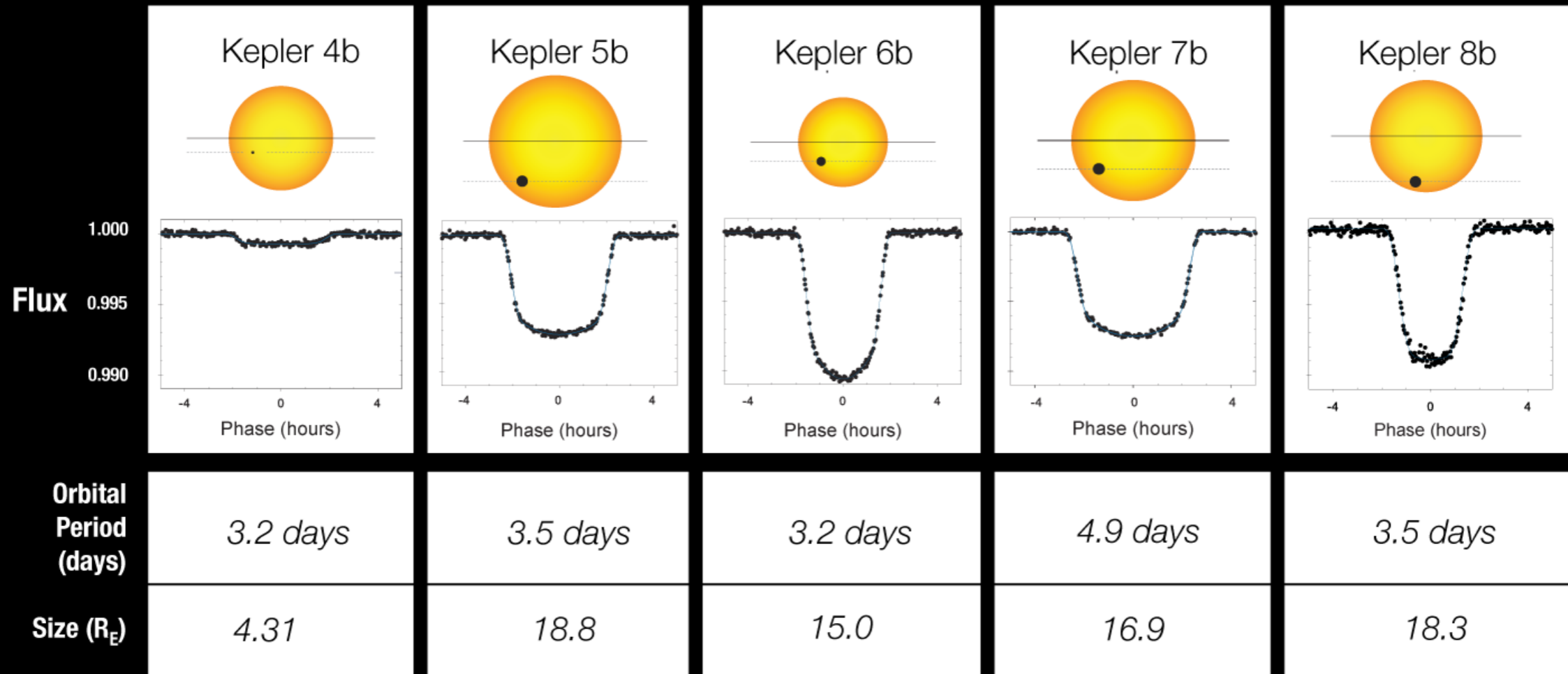
Kepler Measurements (7x Magnification)



Kepler Measurements (100x Magnification)

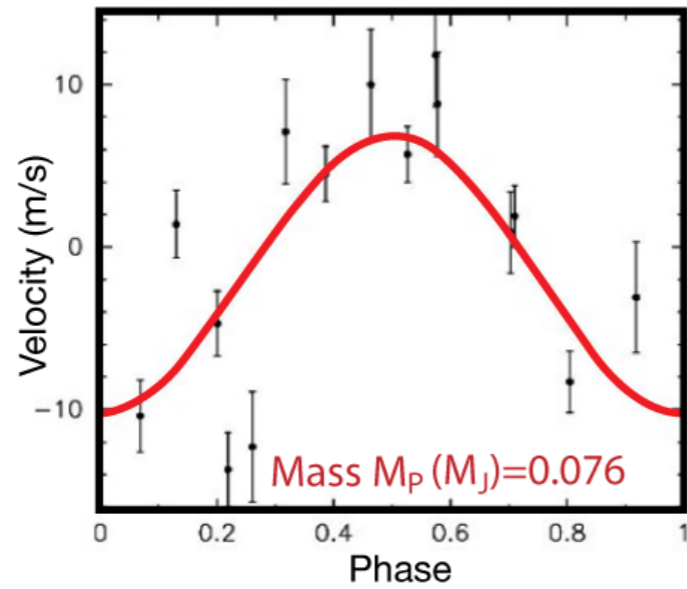


# Transit Light Curves

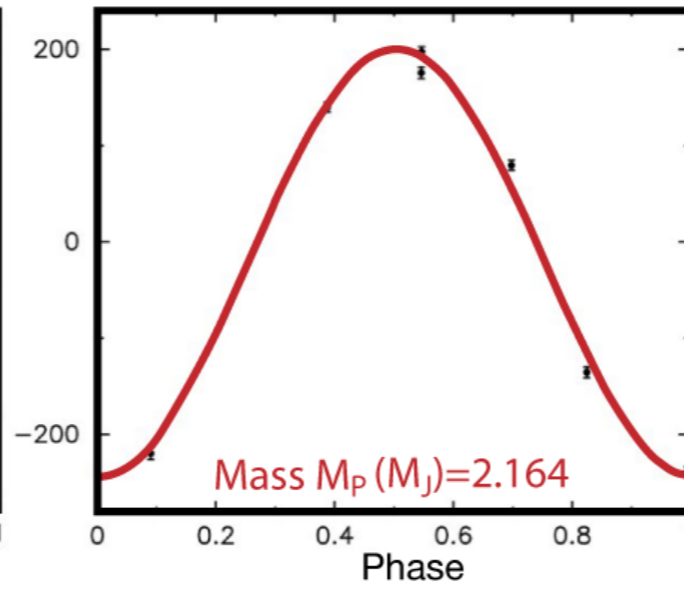


# Radial Velocity of Host Stars

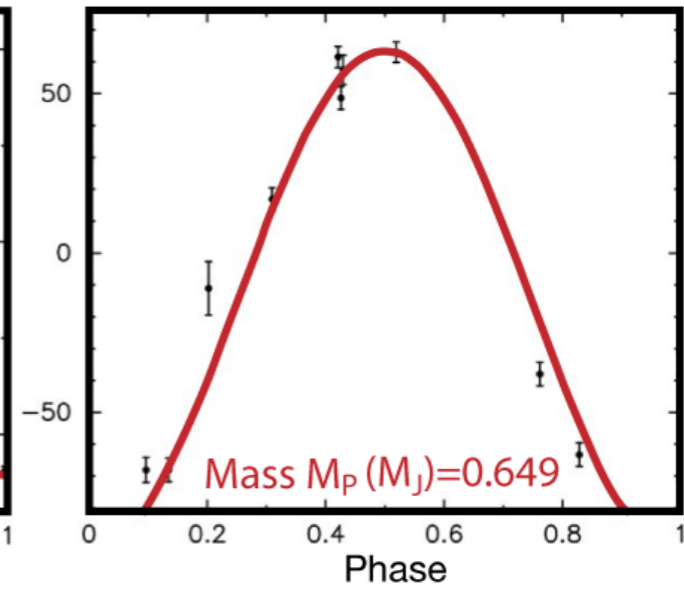
Kepler 4b



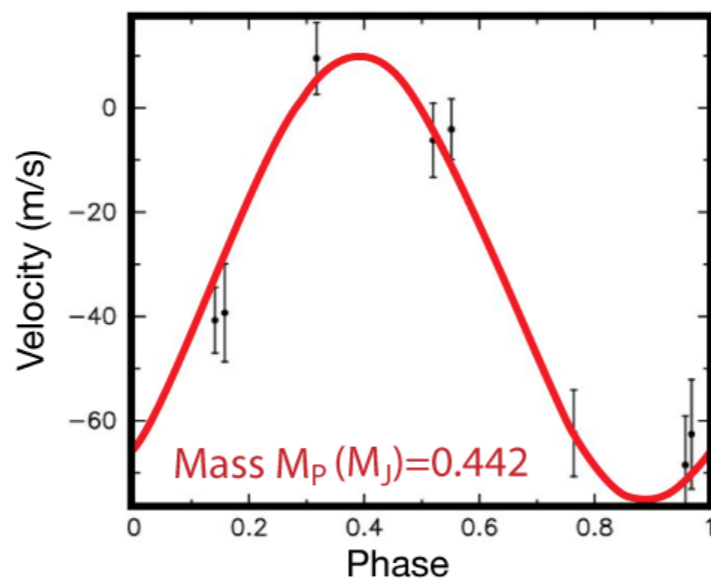
Kepler 5b



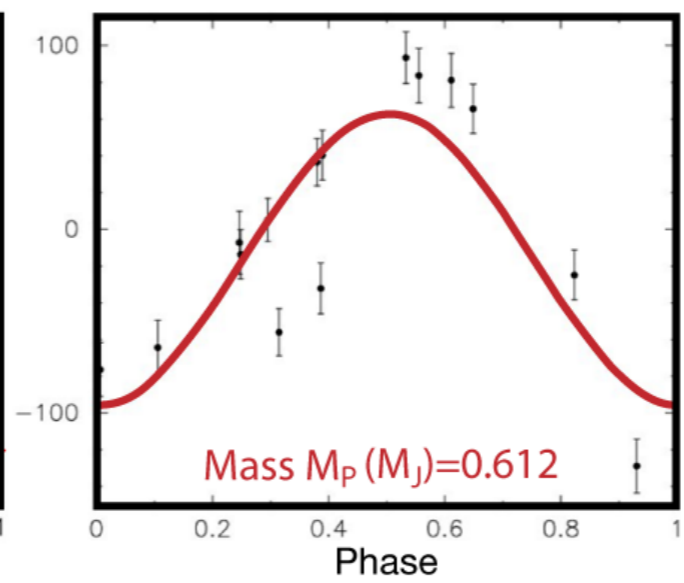
Kepler 6b



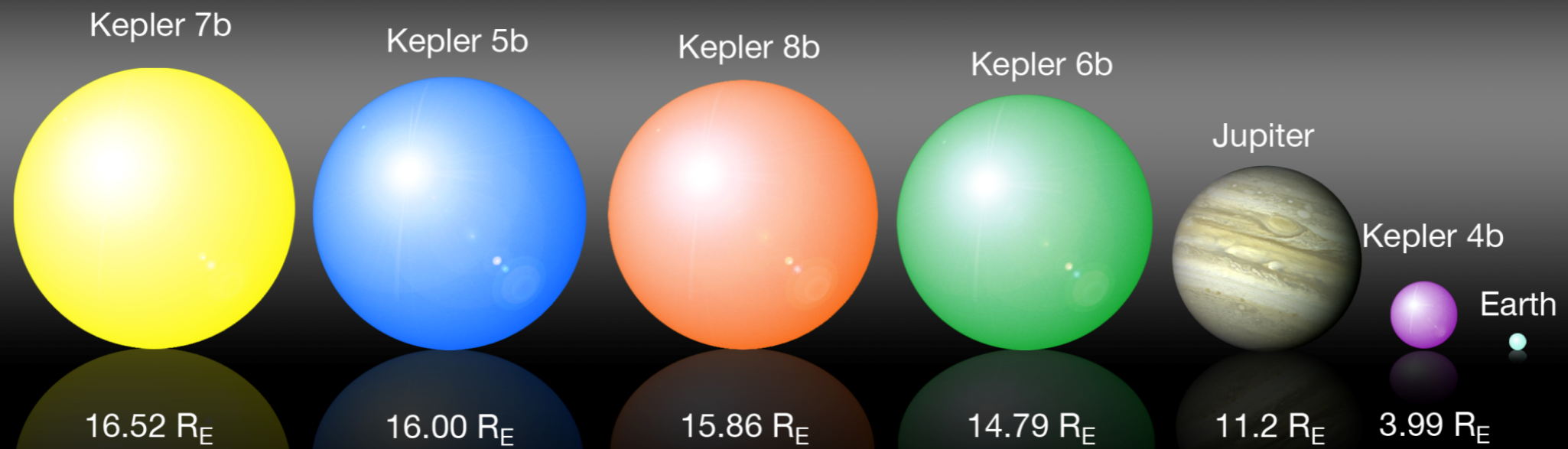
Kepler 7b



Kepler 8b



# Planet Size





# Planet Temperature & Size

