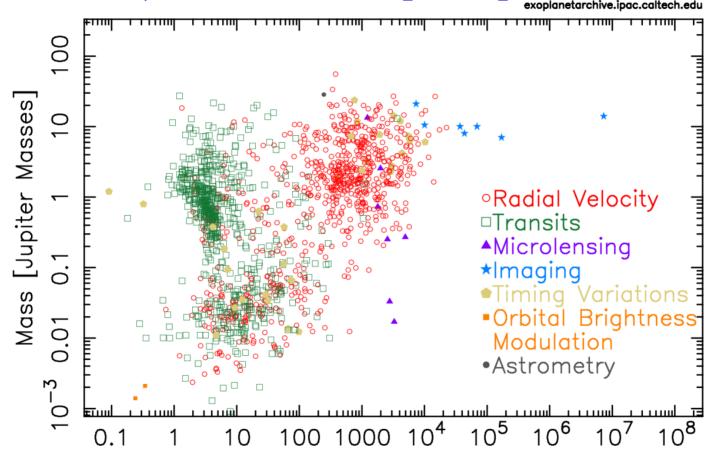
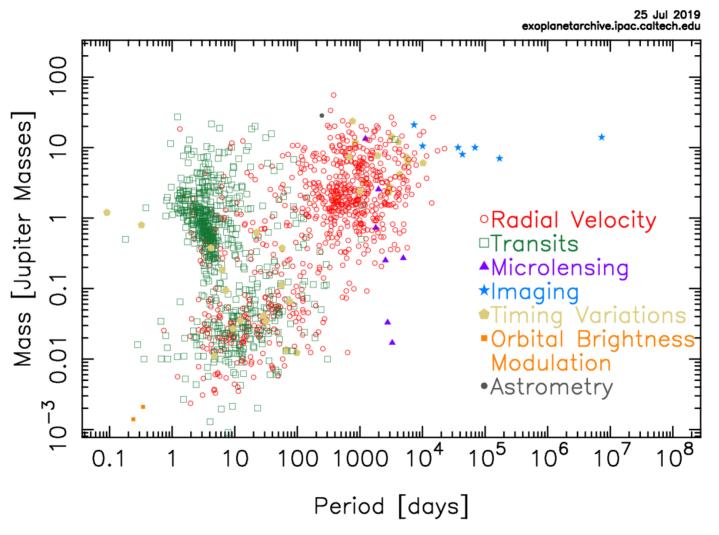
TESS Observations of Known Exoplanetary Systems



Stephen Kane, Jacob Bean, Tiago Campante, Paul Dalba, Tara Fetherolf, Greg Henry, Teo Mocnik, Joshua Pepper, Darin Ragozzine, Maggie Turnbull

Total number of confirmed planets (as of July 25, 2019): 4,025

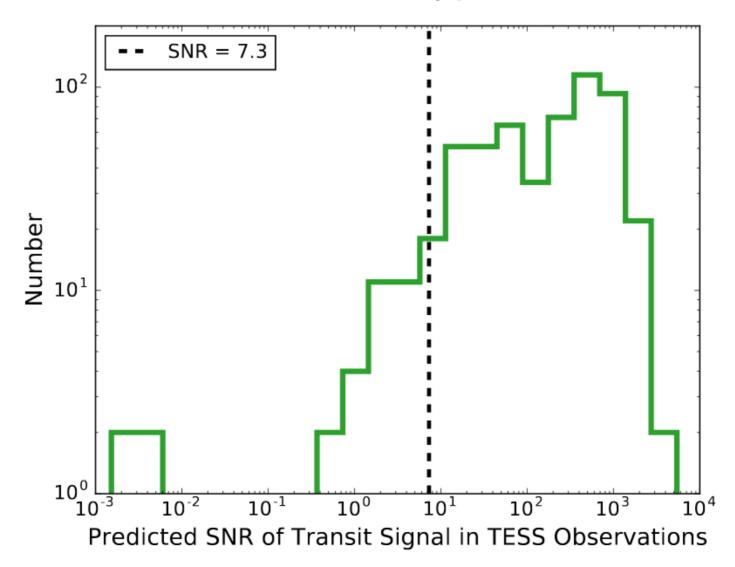
Discovery method: Transits 3,114; RVs 760



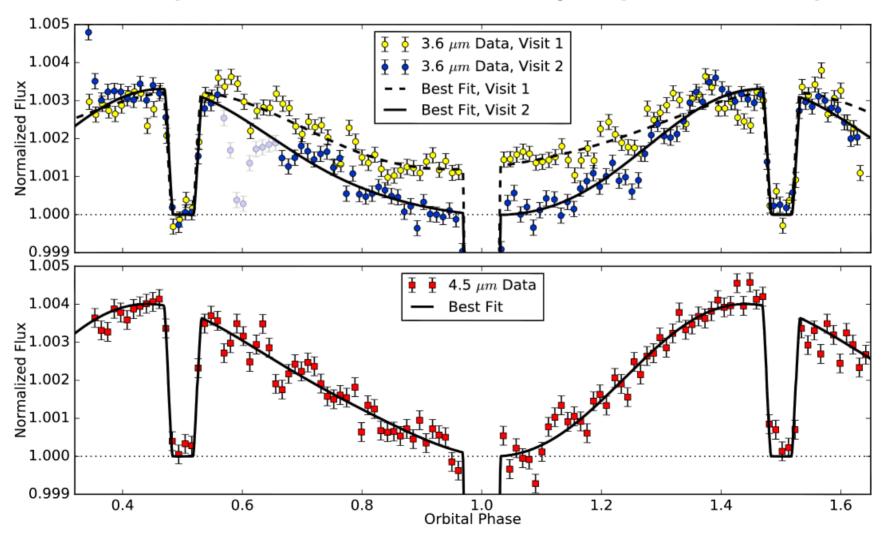
During the TESS primary mission, 83% of known exoplanet hosts will be observed. (Using the TESS Viewing Tool by Tom Barclay)



• Transit detection of known radial velocity planets.

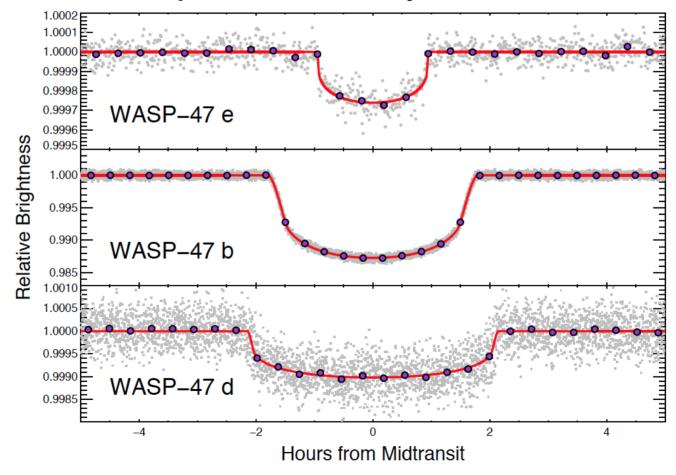


- Transit detection of known radial velocity planets.
- Detection of phase variations, and secondary eclipses for known planets.



Stevenson et al. 2016, AJ, 153, 68

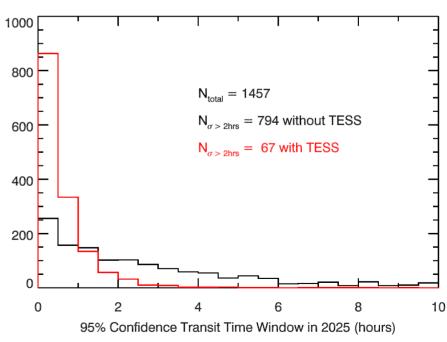
- Transit detection of known radial velocity planets.
- Detection of phase variations, and secondary eclipses for known planets.
- Transits of additional planets in known systems.



Becker et al. 2015, ApJ, 812, L18

- Transit detection of known radial velocity planets.
- Detection of phase variations, and secondary eclipses for known planets.
- Transits of additional planets in known systems.
- Ephemeris refinement for known transiters:
 - Preparation for JWST observations.
 - Additional TTVs of known transiting planets.
 - Orbital decay for Hot Jupiters

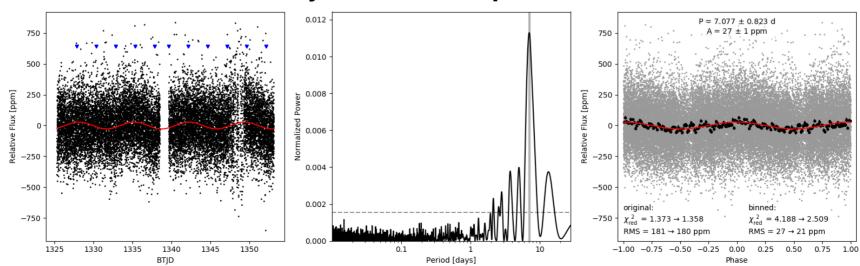


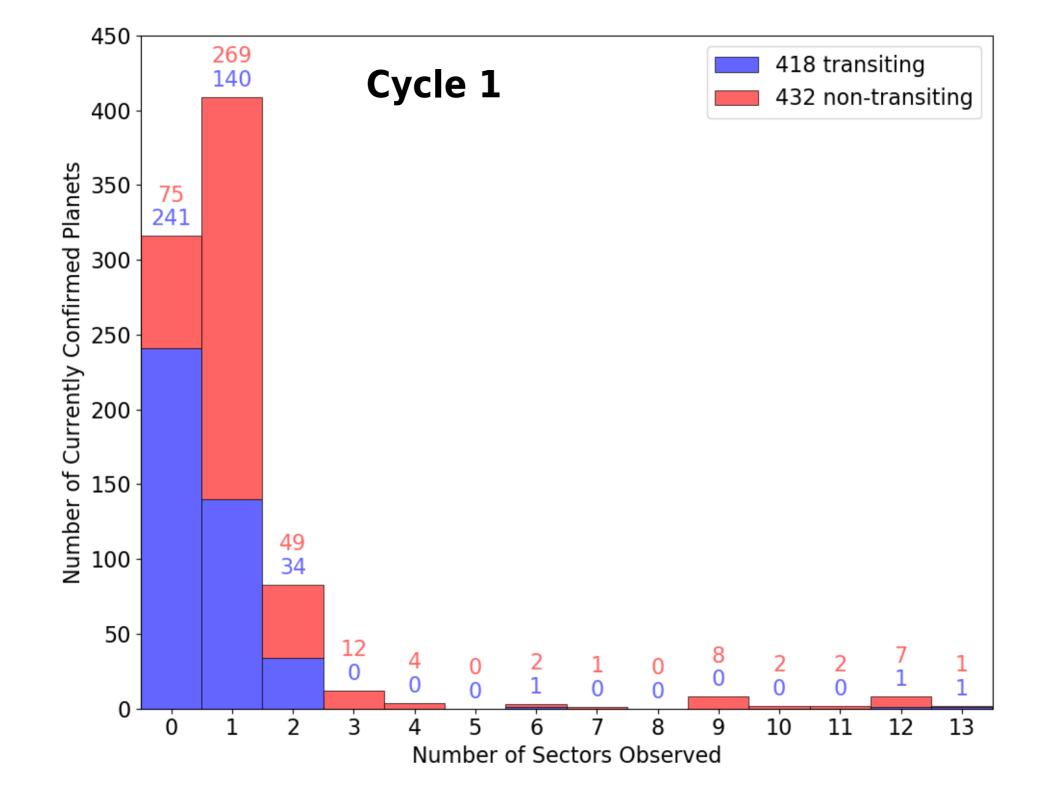


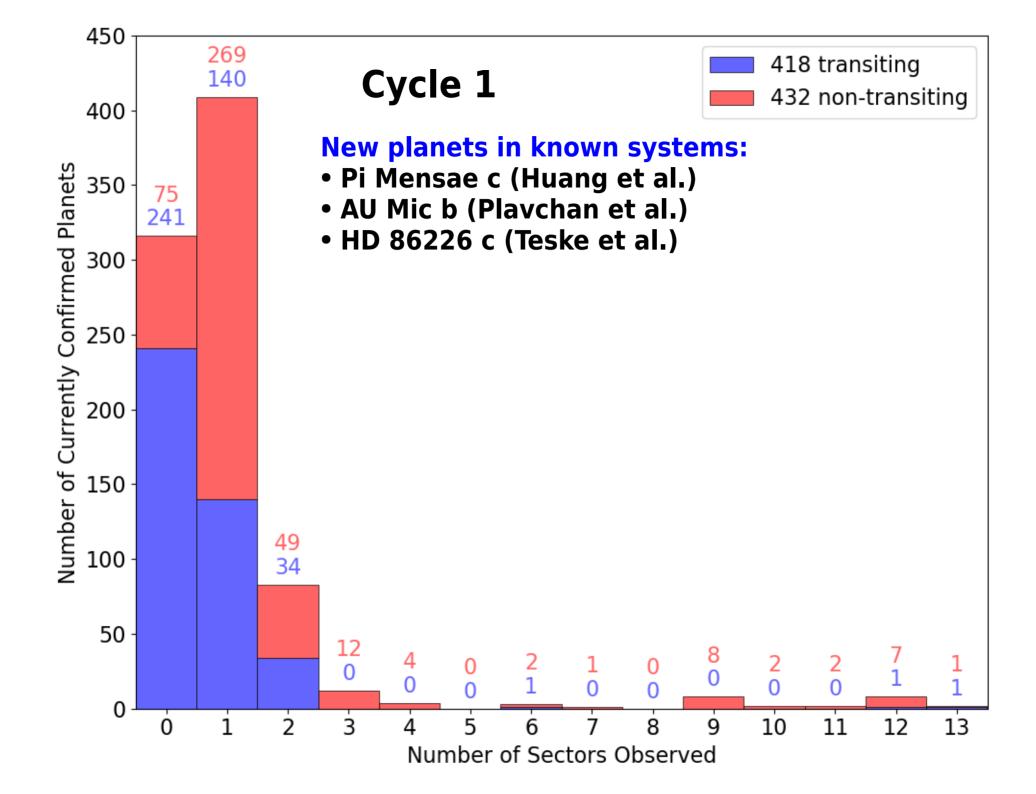
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- Astroseismology of known planet hosts.

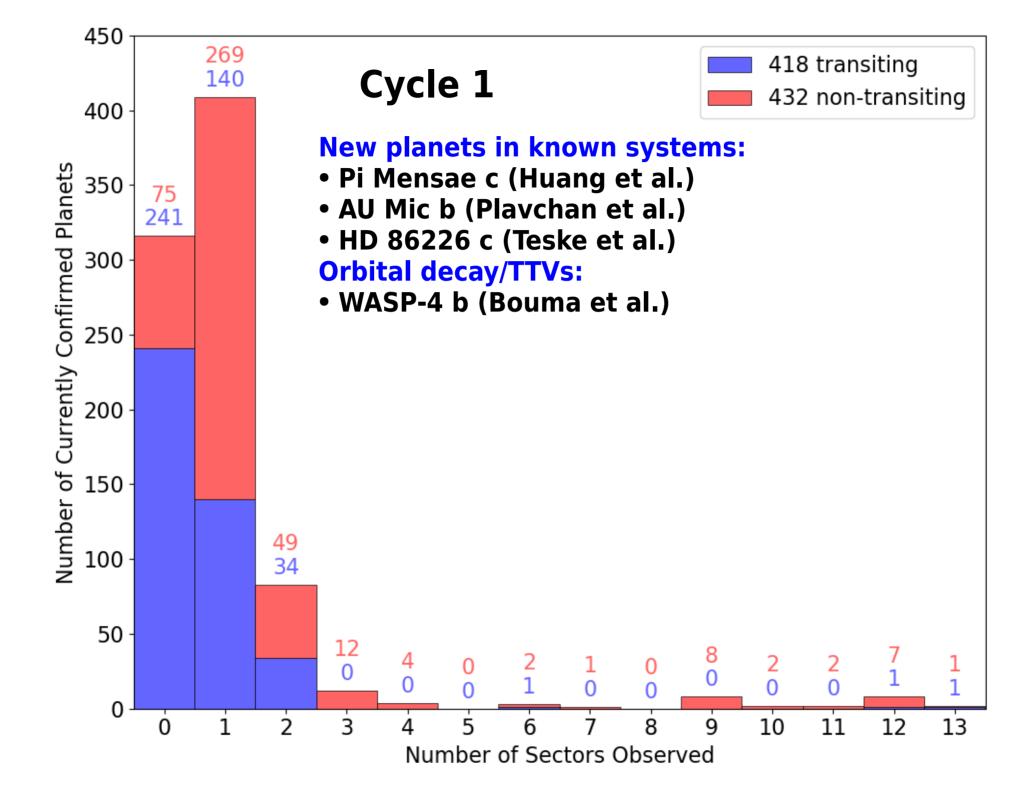


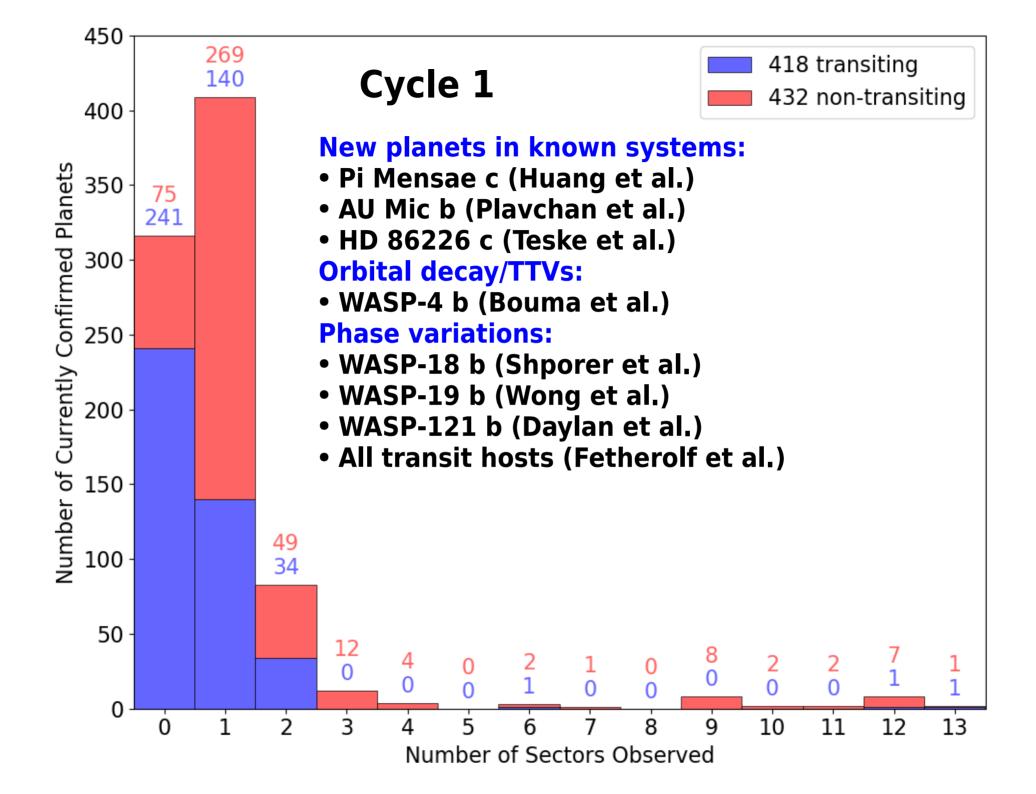
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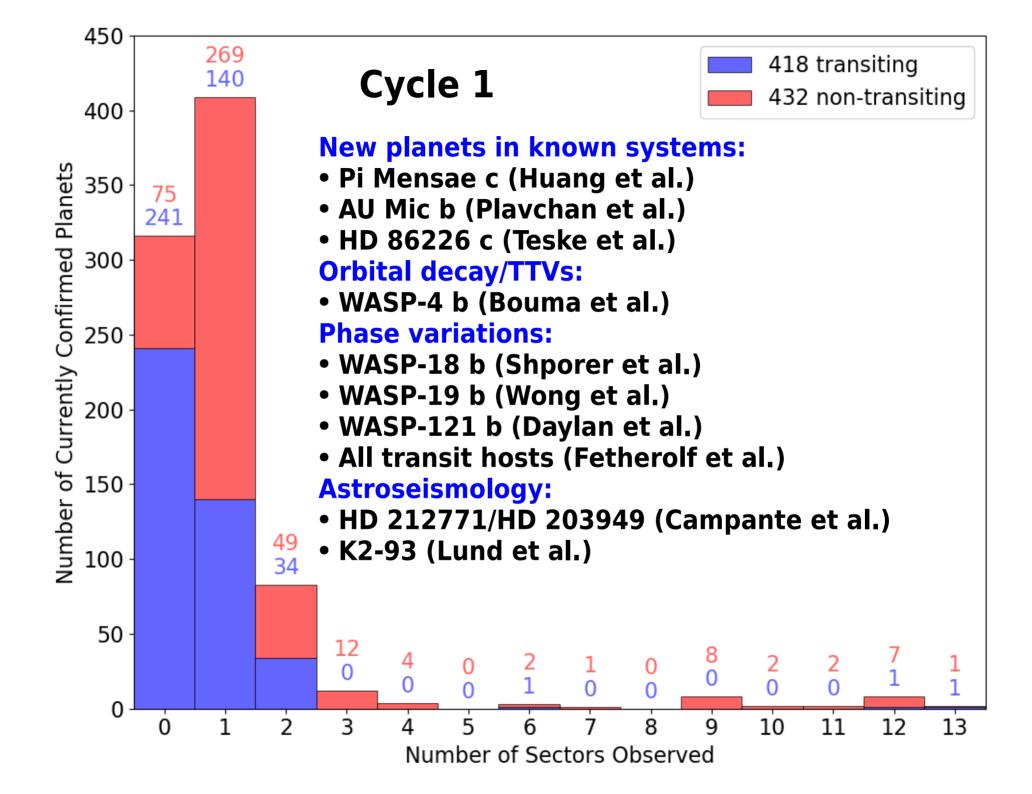


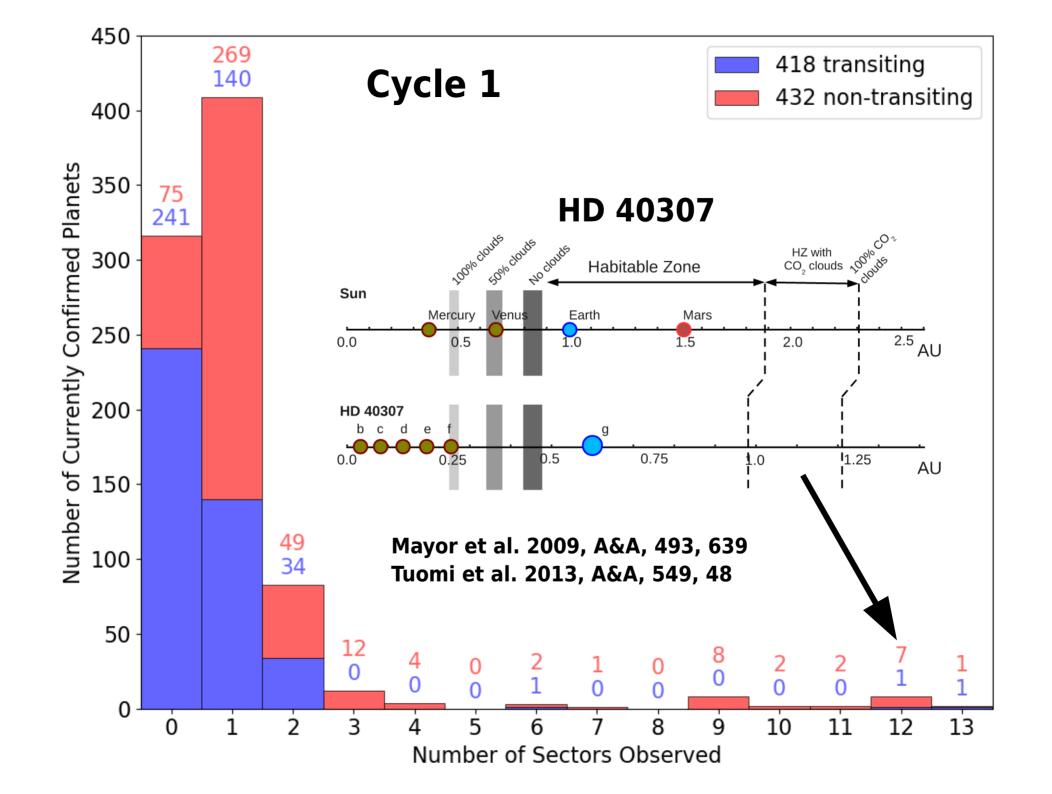


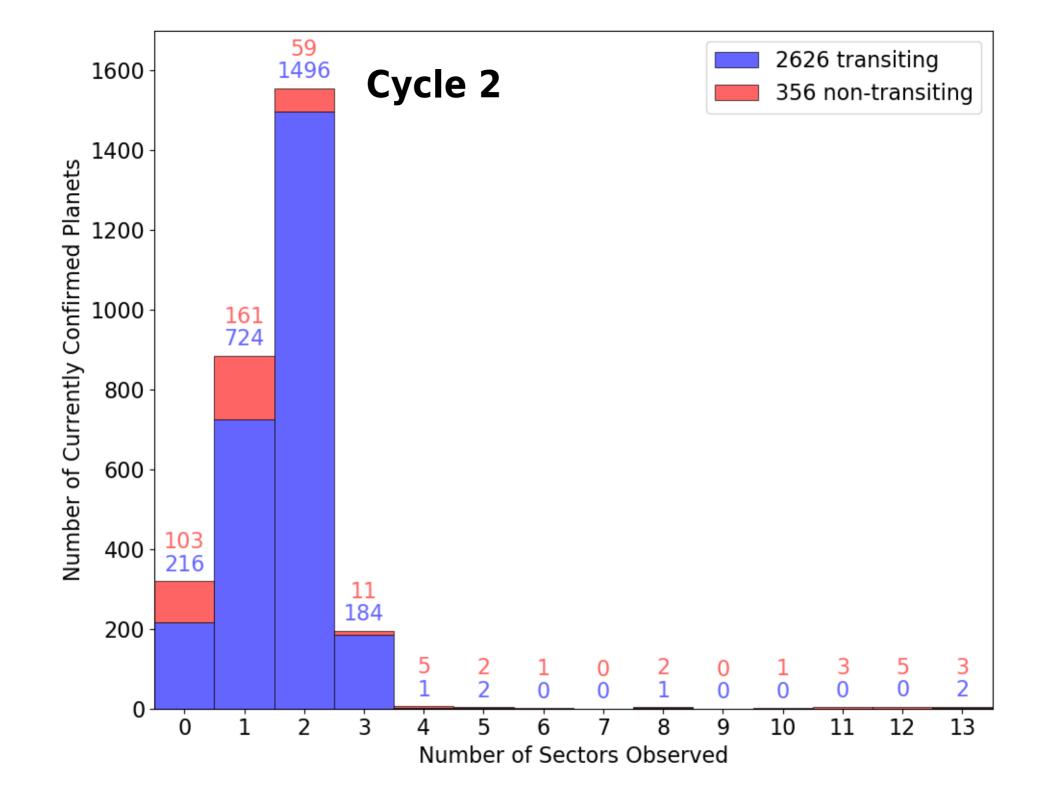


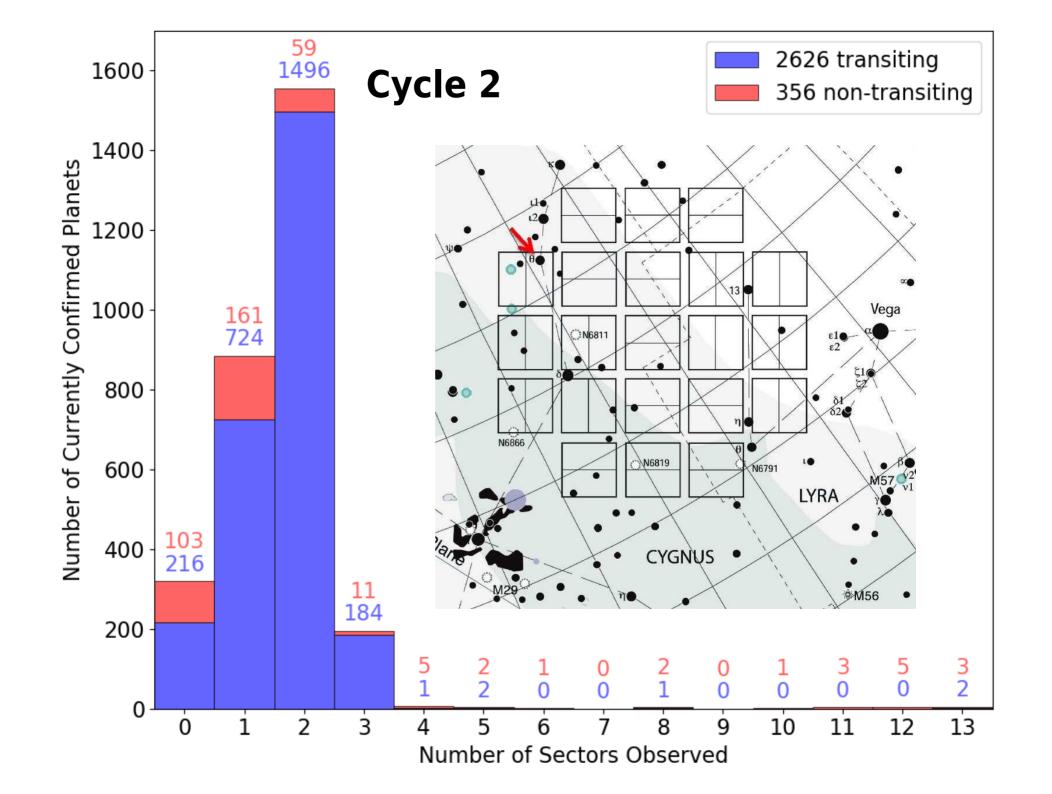












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Feel free to ask me for known exoplanet data.