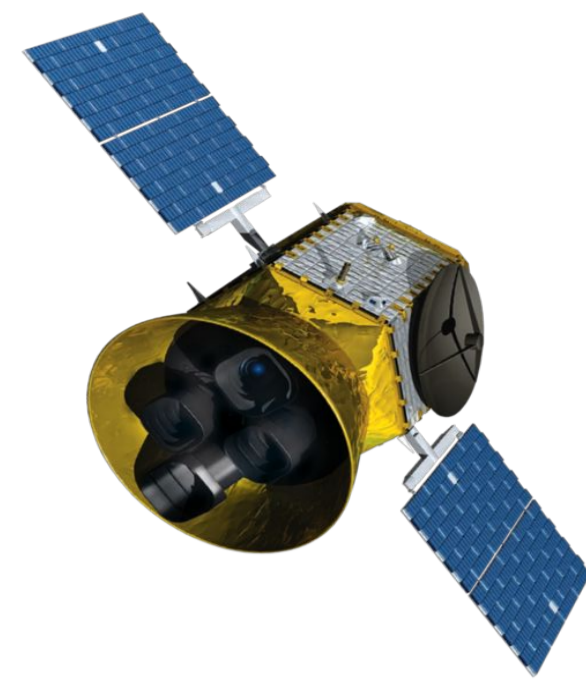
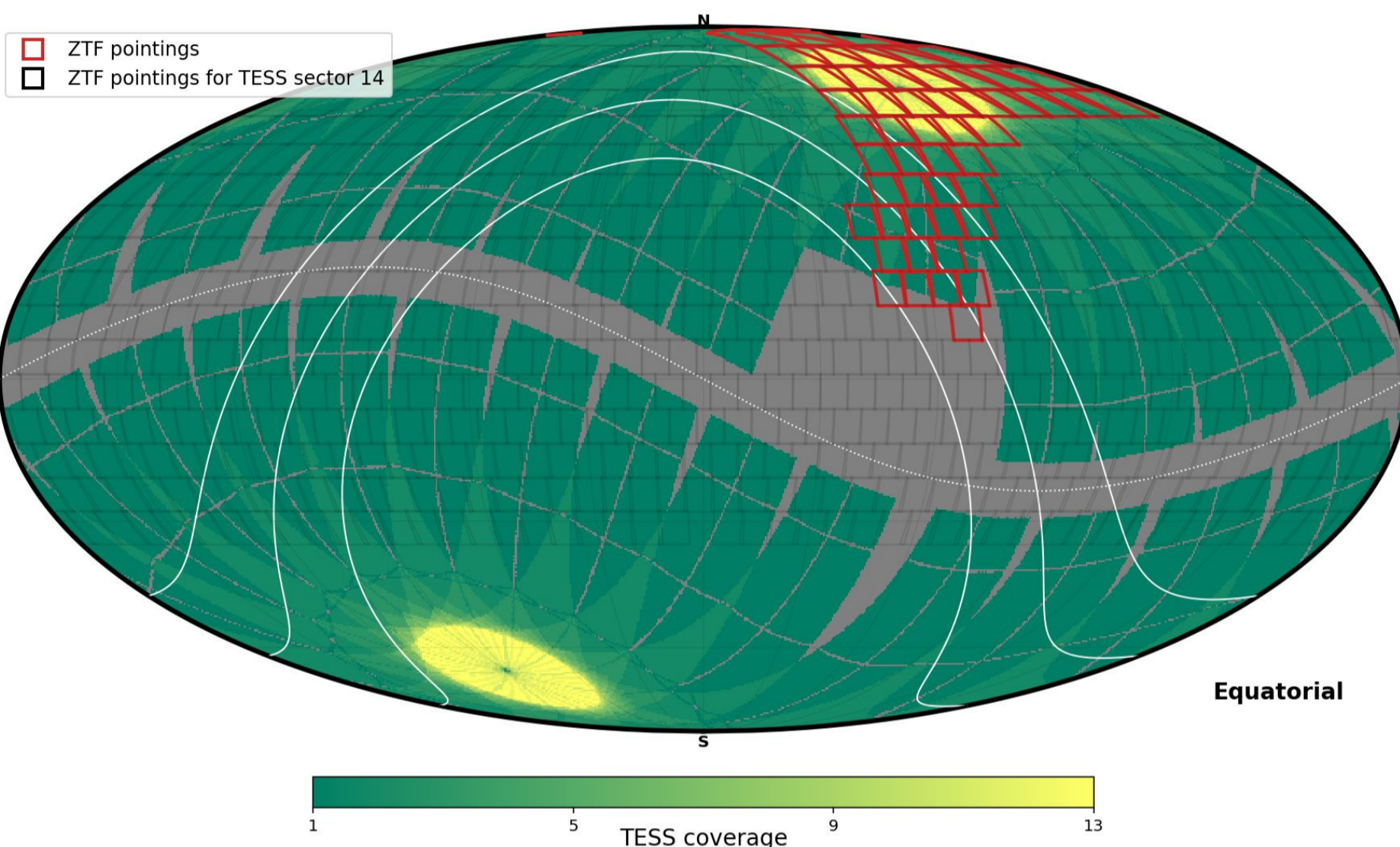


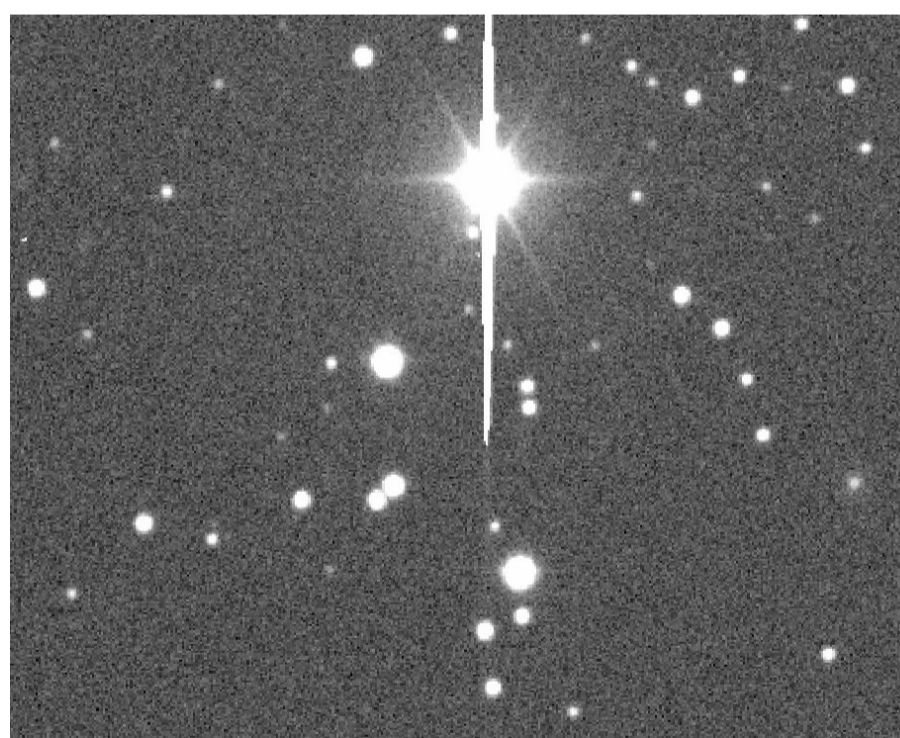
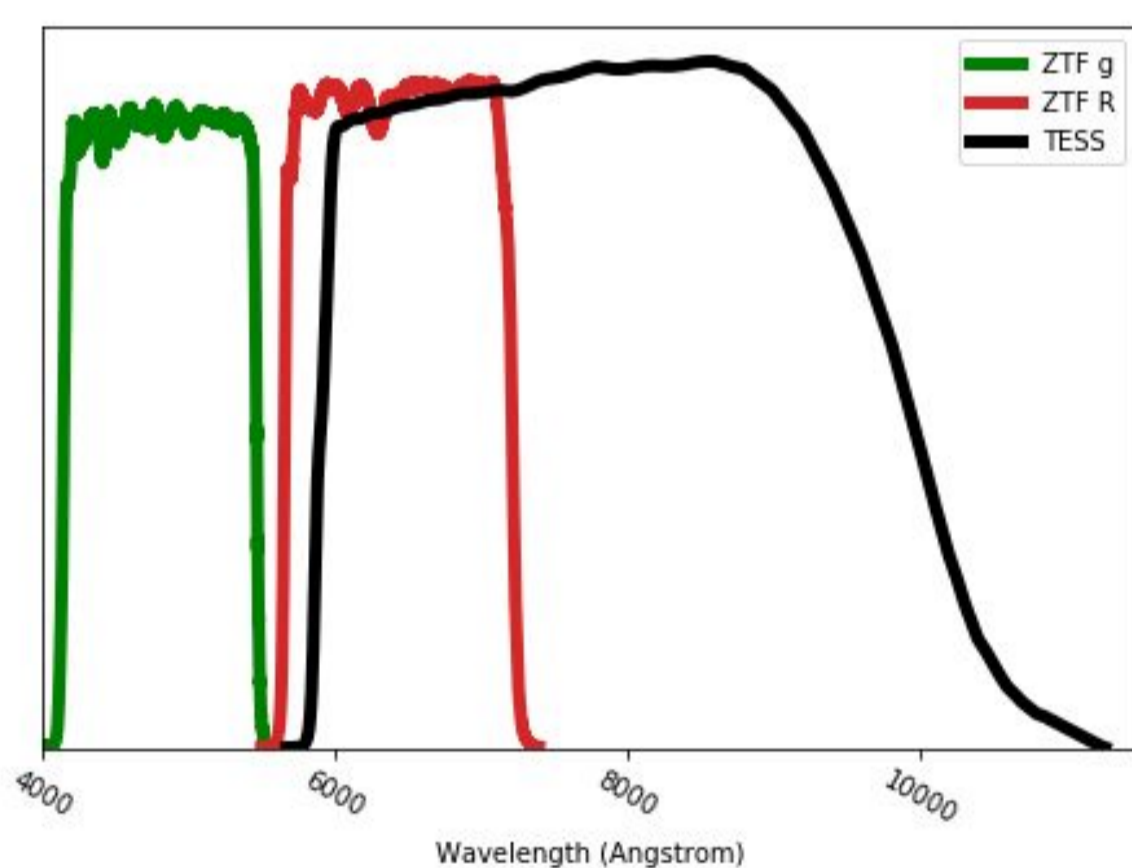
Monitoring of the TESS sectors by the Zwicky Transient Facility



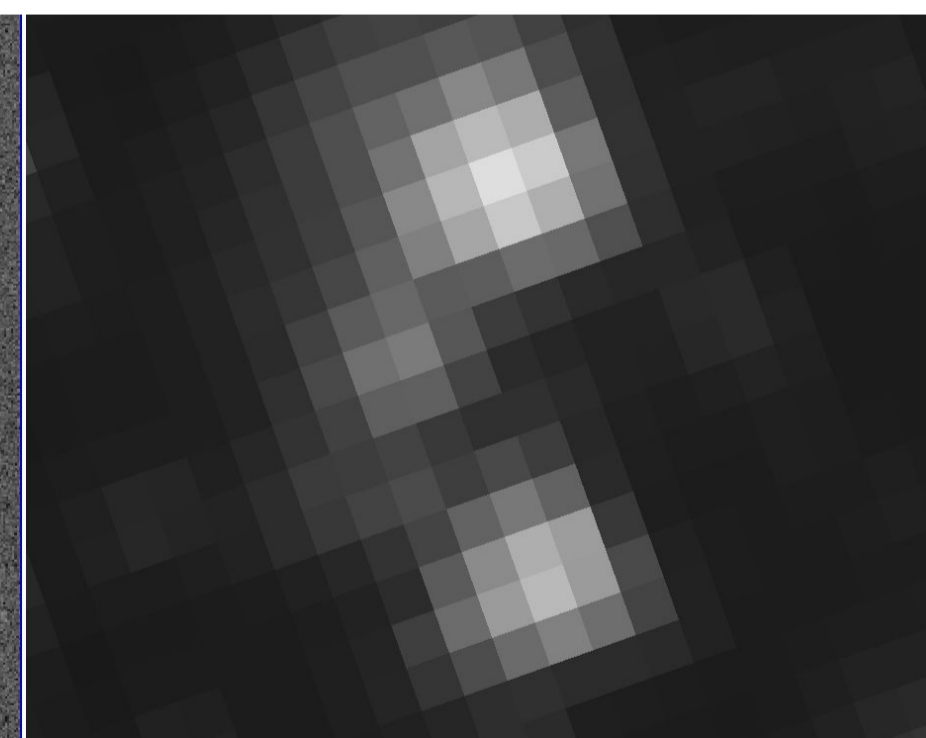
As a service to the astronomical community, the Zwicky Transient Facility (ZTF) will conduct a nightly public survey of all 13 TESS northern sectors in 2019-2020. ZTF will observe the portions of the TESS sector visible from Palomar each night. Each ZTF pointing will have one exposure each with g and r filters, totaling two images per night. The observations of the first northern sector, Sector 14, have begun on July 18, 2019.



- ✓ Full coverage
- ✓ 1-day cadence
- ✓ g&R colours
- ✓ Limiting mag >20.5
- ✓ 1 arcsec pixels
- ✓ Publicly available
- ✓ Fast data-release



ZTF 1 arcsec pixels



TESS 21 arcsec pixels

Data release:

Any optical variability detected by ZTF ('alerts') will be published nightly, allowing rapid ground-based follow-up observations by the community. All ZTF-alerts are already crossmatched to external catalogs, including Gaia, Pan-STARRS, 2MASS and others. Lightcurves for all objects will be made available within one month of the end of the TESS observing campaign.



Caltech



Jan van Roestel