

# PHT Data Validation Report TIC 55525572

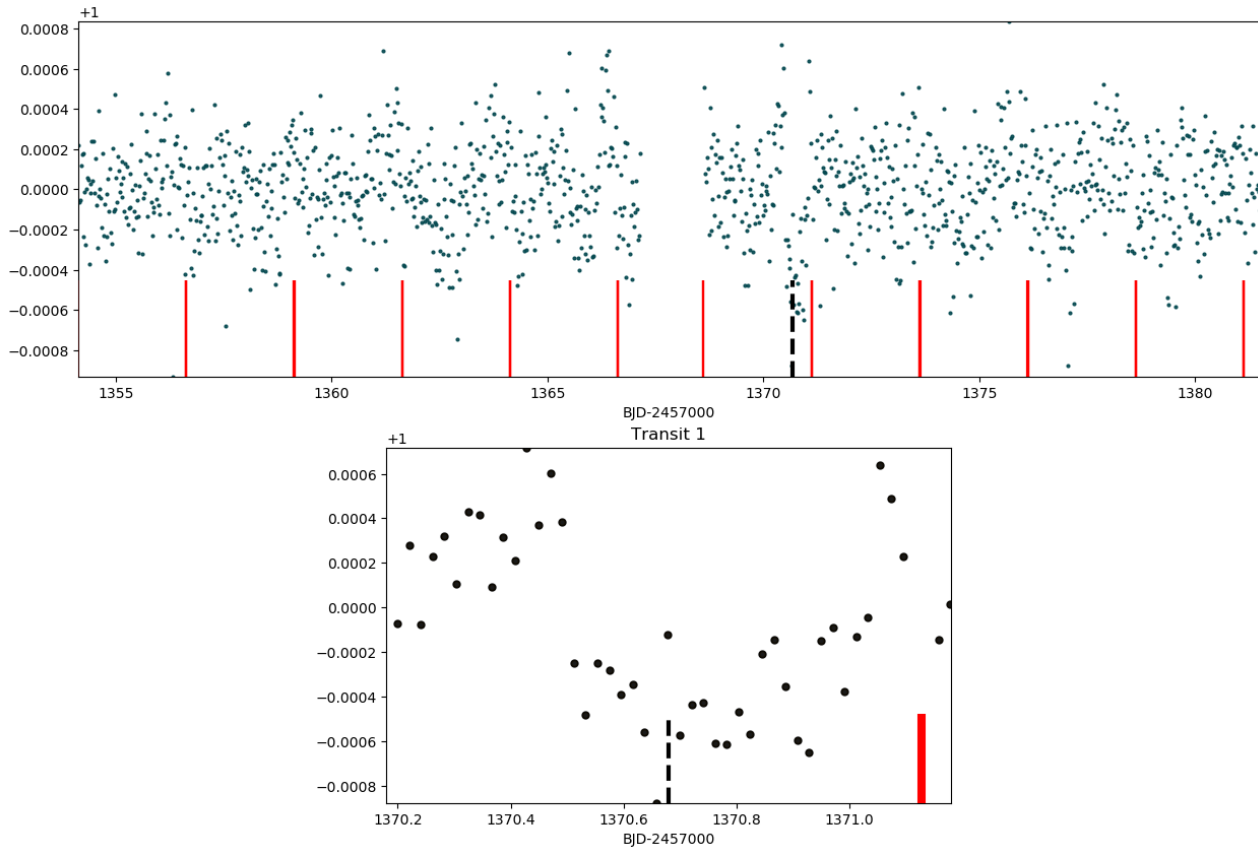


Fig 1. Full lightcurve for target TIC 55525572. The solid red lines at the bottom of the figure indicated the times of the momentum dumps and the dashed black line(s) show the time(s) of the marked transit event(s).

## Target Properties

Parameter	Value	Unit
TIC ID	55525572	
RA	72.69404300000001	degrees
Dec	-60.905449	degrees
Radius	2.0435	Solar Radii
Tess Mag	9.8467	Mag
Teff	5824	Kelvin
Sectors	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13 *	
TCE	-	
TOI	813.01	

Table 1. Stellar properties of the [TIC 55525572](#). \* List of the sectors in which the target will be has been observed.

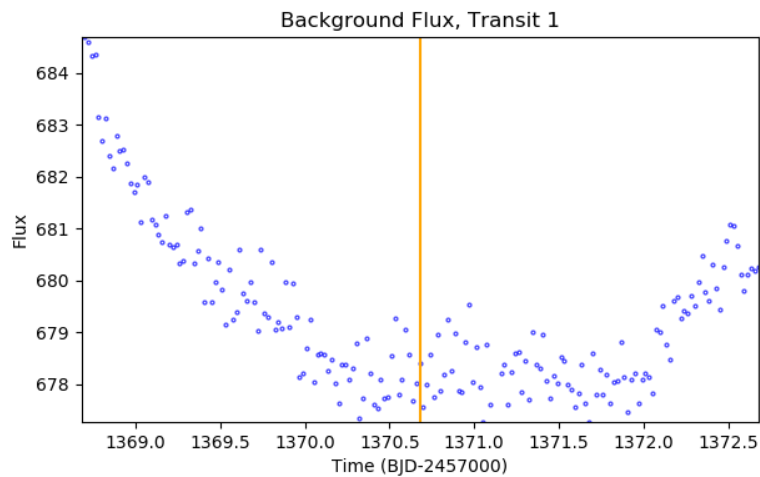


Fig 2. Background flux vs. time around the time of each transit-like event. The vertical orange line indicates the time of the transit-like event.

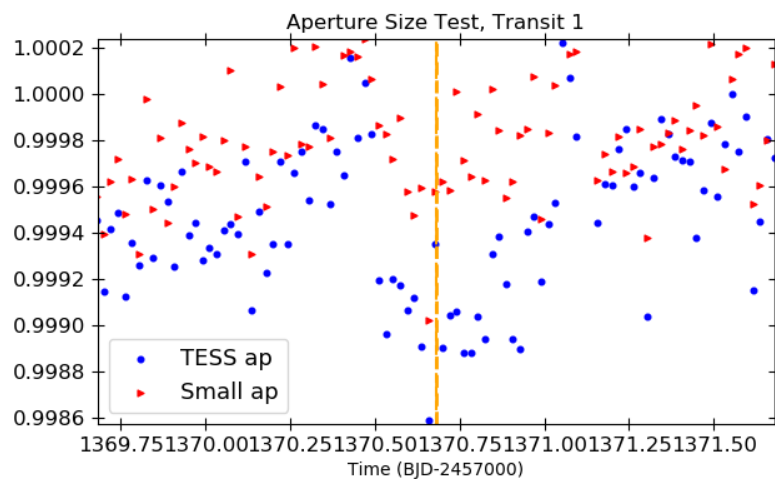


Fig 3. The lightcurve around the time of each transit-like event extracted with the SPOC pipeline defined aperture (binned:blue, unbinned:grey) and the with an aperture that is 50% smaller (red). The flux is extracted from the target pixel files (TPFs) and has not been detrended or corrected for systematics. The vertical orange line indicates the time of the transit-like event.

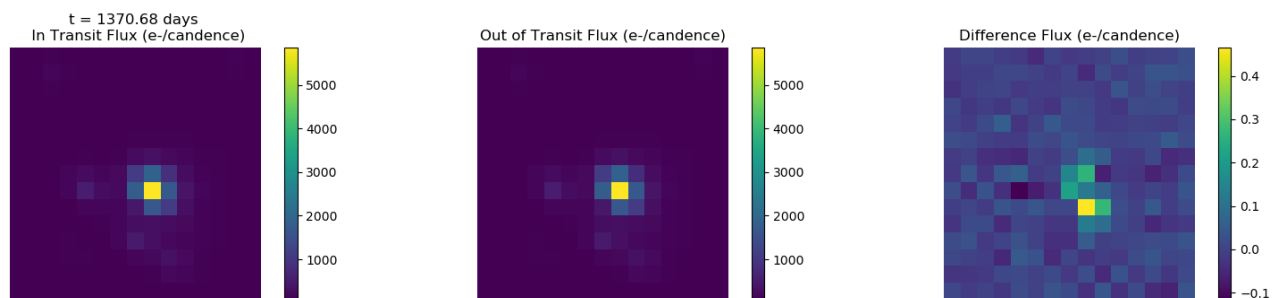


Fig 4. Difference images for target TIC 55525572 for each transit like event. Left: mean in-transit flux(left). Right: mean out-of-transit flux. Right: difference between the mean out-of-transit and mean in-transit flux.

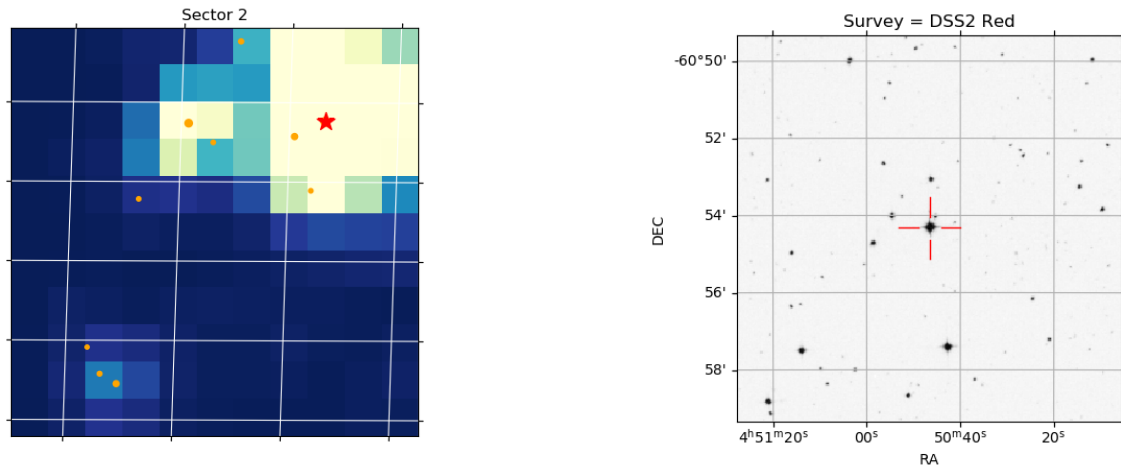


Fig 5. Left: The locations of nearby GAIA DR2 stars with mag < 15 (orange circle) within the Tess Cut Out around TIC 55525572 (red star). Only shown for one sector. Right: SDSS image of the surrounding field.

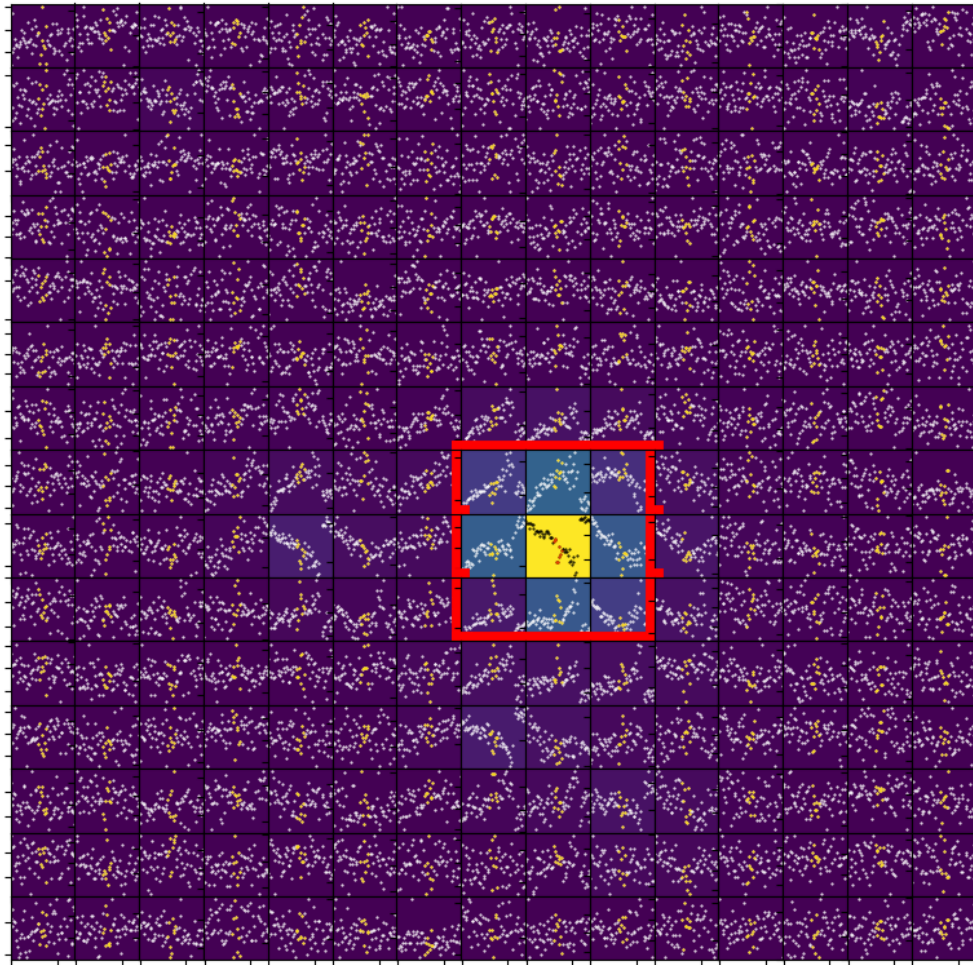


Fig 6. Normalised flux extracted for each pixel, using the SPOC pipeline mask, around the time of the transit-like event. The orange/red data points show the in-transit data. The solid red lines show the SPOC pipeline mask. Only shown for one sector.