

# TESS Data Release Notes: Sector 100, DR137

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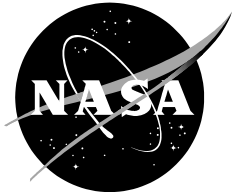
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## Acknowledgements

These Data Release Notes provide information on the processing and export of data from the Transiting Exoplanet Survey Satellite (TESS). The data products included in this data release are full frame images (FFIs), target pixel files, light curve files, collateral pixel files, cotrending basis vectors (CBVs), and Data Validation (DV) reports, time series, and associated xml files.

These data products were generated by the TESS Science Processing Operations Center (SPOC, [Jenkins et al., 2016](#)) at NASA Ames Research Center from data collected by the TESS instrument, which is managed by the TESS Payload Operations Center (POC) at Massachusetts Institute of Technology (MIT). The format and content of these data products are documented in the [Science Data Products Description Document \(SDPDD\)](#). The SPOC science algorithms are based heavily on those of the Kepler Mission science pipeline, and are described in the [Kepler Data Processing Handbook \(Jenkins, 2020\)](#). The Data Validation algorithms are documented in [Twicken et al. \(2018\)](#) and [Li et al. \(2019\)](#). The [TESS Instrument Handbook \(Vanderspek et al., 2018\)](#) contains more information about the TESS instrument design, detector layout, data properties, and mission operations.

The TESS Mission is funded by NASA's Science Mission Directorate.

# 1 Observations

TESS Sector 100 observations include physical orbits 211 and 212 of the spacecraft around the Earth. Sector 100 is the second of nine overlapping “rolled” sectors that provide extended temporal coverage of the southern ecliptic’s mid-latitudes. This observing plan is designed to detect longer period planets than typical TESS pointings at latitudes that are more amenable to follow up observations. Data collection for this sector was paused for a total of 0.57 days for data downloads. Data were downloaded approximately every seven days, near apogee and perigee of each orbit. In total, there are 25.87 days of science data collected in Sector 100.

Table 1: Sector 100 Observation times

|                  | UTC                 | TJD <sup>a</sup> | Cadence # |
|------------------|---------------------|------------------|-----------|
| Orbit 211a start | 2026-02-02 11:41:17 | 4073.98780       | 2049504   |
| Orbit 211a end   | 2026-02-09 05:03:16 | 4080.71141       | 2054344   |
| Orbit 211b start | 2026-02-09 08:41:16 | 4080.86280       | 2054454   |
| Orbit 211b end   | 2026-02-15 18:33:16 | 4087.27390       | 2059069   |
| Orbit 212a start | 2026-02-15 23:35:16 | 4087.48363       | 2059221   |
| Orbit 212a end   | 2026-02-22 14:33:16 | 4094.10723       | 2063989   |
| Orbit 212b start | 2026-02-22 19:35:16 | 4094.31696       | 2064141   |
| Orbit 212b end   | 2026-02-28 23:09:16 | 4100.46556       | 2068567   |

<sup>a</sup> TJD = TESS JD = JD - 2,457,000.0

<sup>b</sup>The horizontal black lines mark gaps in the light curves for data downlink.

The spacecraft pointing was set to RA (J2000): 180.535°; Dec (J2000): -51.914°; Roll: 212.865°. See the TESS project [Sector 100 observation page](#)<sup>1</sup> for the coordinates of the spacecraft pointing and center field-of-view of each camera. Fields-of-view for each camera can be found at the TESS Guest Investigator Office [observations status page](#).<sup>2</sup> Additional details for Guest Investigator target lists selected for 2-minute and 20-second observations can be found at the [Sector 100 observation page](#) and the [observations status page](#).

## 1.1 Targets and Light Curves

There were 2573 targets chosen for 20-second cadence observations and 13000 targets chosen for 2-minute cadence observations. Due to an error during target selection, no targets fainter than m=16 were selected for Sector 100. Table 2 provides targets that were not fully processed with the photometric pipeline as well as targets that were fully processed but received warnings during aperture assignment.

For targets that were not processed with the photometric pipeline, the target pixel files with original and calibrated pixel data are provided, but no light curves are produced. Note that the target pixel files do not include a background correction for stars without light curves. The most common reason for a target to not be processed with the photometric

<sup>1</sup><https://tess.mit.edu/observations/sector-100>

<sup>2</sup><https://heasarc.gsfc.nasa.gov/docs/tess/sector.html>

pipeline is that the target exceeds a brightness threshold ( $T_{\text{mag}} \lesssim 1.8$ ) that results in large pixel stamps. A target located too close to a very bright star, having a comparably bright companion, impacted by saturated star bleed trails, or having an error in identifying a clean background region are less common causes for a target to not be processed with the photometric pipeline. Visual examination of the target along with custom aperture selection may be needed for photometric analysis of the impacted targets. Warnings during aperture assignment occur when the aperture is discontinuous or clipped, and the resulting photometry is expected to be unreliable.

Table 2: TIC IDs for targets without light curves and photometric aperture warnings

| No Light Curve Generated |           | Aperture Warning |           |
|--------------------------|-----------|------------------|-----------|
| 2-minute                 | 20-second | 2-minute         | 20-second |
| 262737698                | 262834160 | 263315158        | 263315158 |
| 262834160                | 341149986 | 333670665        | 418338130 |
| 272314138                | 399646462 | 418338130        | 997455580 |
| 272884654                | 471011144 | 997455580        |           |
| 294695642                | 471011145 |                  |           |
| 314113726                |           |                  |           |
| 341149986                |           |                  |           |
| 364216056                |           |                  |           |
| 399646462                |           |                  |           |
| 408150303                |           |                  |           |
| 471011144                |           |                  |           |
| 471011145                |           |                  |           |

## 1.2 Spacecraft Pointing and Momentum Dumps

The pointing in Sector 100 was set at -46.0 degrees in ecliptic latitude. The instrument field-of-view was rotated by  $\sim 40^\circ$  covering a region of southern ecliptic mid-latitudes. Camera 1 was used for guiding in all four half-orbit segments: 211a, 211b, 212a, 212b. Camera 4 was also used for guiding 212b. Two momentum dumps were performed in each orbit. The momentum dumps are performed at the end of each data downlink just before data collection resumes. Data impacted by momentum dumps and data downlinks are marked with data quality flags (see Appendix A). Figure 1 summarizes the pointing performance over the course of the sector based on Fine Pointing telemetry.

A new attitude control algorithm was tested during the last 27 hours of Sector 100. Reaction wheel speeds were calibrated during the first  $\sim 1$  hour, which resulted in elevated pointing scatter (cf. Figure 1). Associated cadences have been given the coarse point or manual exclude quality flags.

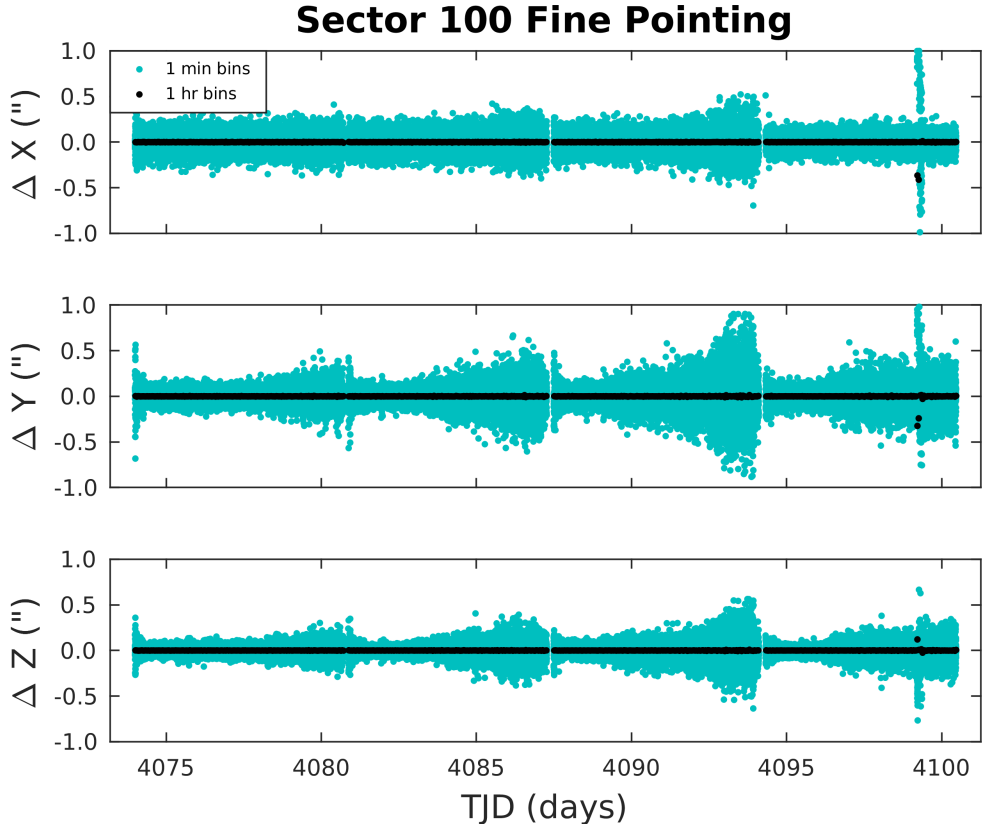


Figure 1: The delta-quaternions from each camera have been converted to spacecraft frame, binned to 1 minute and 1 hour, averaged across cameras. Long-term trends (such as those caused by differential velocity aberration) have also been removed. The  $\Delta X/\Delta Y$  directions represent offsets along the detectors’ rows/columns, while the  $\Delta Z$  direction represents spacecraft roll.

### 1.3 Scattered Light

Figure 2 shows the median value of the background estimate for all targets on a given CCD as a function of time. Times of high background correspond to times when the Earth and/or Moon approach the camera’s field of view causing scattered light from these bright objects to enter the cameras. The viewing geometry of the Earth and Moon relative to TESS’s pointing in Sector 100 are shown in Figure 3. Figure 3 shows the angle between each camera’s boresight and the Earth or Moon—this figure can be used to identify periods affected by scattered light and the relative contributions of the Earth and Moon to the image backgrounds. Scattered light increases as the camera boresight angle between the Earth and Moon is  $\lesssim 35^\circ$  and will strongly impact photometric observations for angles  $\lesssim 25^\circ$ . Data impacted by scattered light are marked with data quality flags (see Appendix A).

### 1.4 Smear Correction Contamination

Due to the shutterless operation of the TESS instrument (see [TESS Instrument Handbook](#), §9.5), data calibration involves subtracting a smear correction. The “smear rows” are virtual

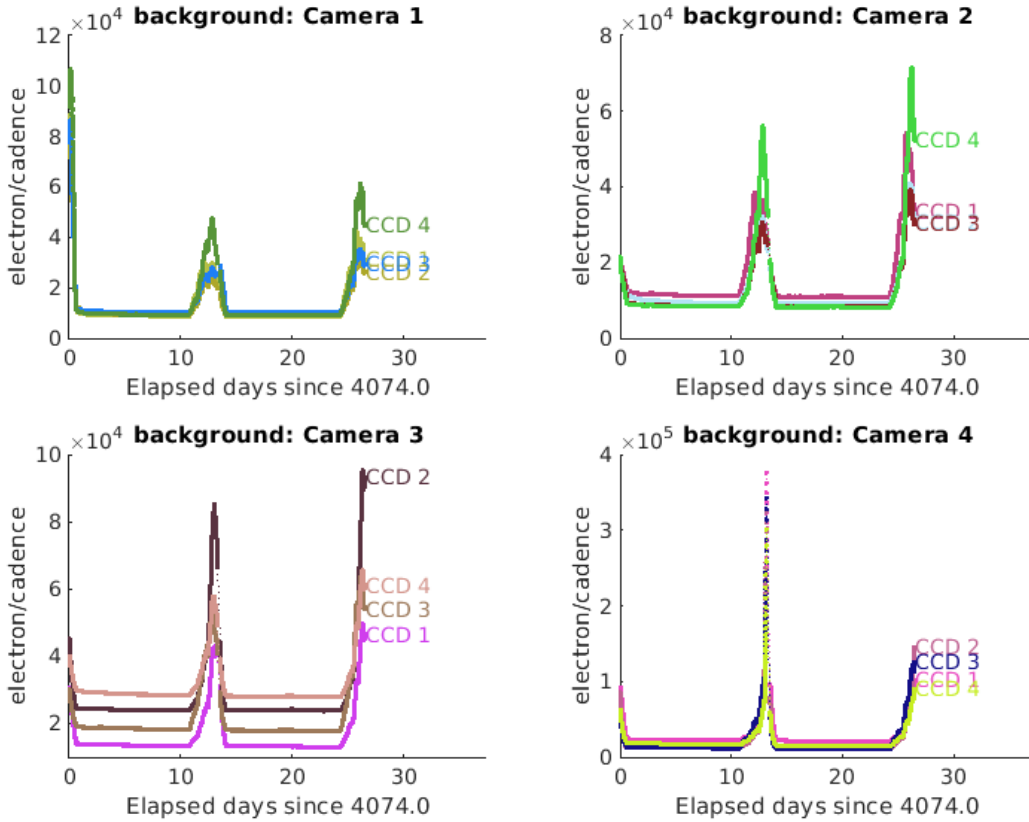


Figure 2: Median background flux across all targets on a given CCD in each camera. The changes are caused by variations in the orientation and distance of the Earth and Moon.

pixels (not physical pixels) that provide an estimate of the contaminating flux that accumulates in each pixel during the  $\sim 0.02$  s shutterless frame transfer. The smear correction, estimated from the smear rows, is subtracted from the whole column. However, bright stars located in the science frame, upper buffer rows, and lower science frame rows can bleed into the smear rows resulting in an overestimated smear correction. An overestimated smear correction in calibrated data products can be identified by one or more consecutive columns that are anomalously dark relative to neighboring columns, whereas the raw/uncalibrated images do not reveal an anomalously dark column relative to its neighbors. Mitigating an overestimated smear correction may require a custom calibration that robustly interpolates across the contaminated smear columns or a robust smear estimate from the science frame.

## 1.5 Data Anomaly Flags

The [SDPDD](#) (§9) lists data quality flags and the associated binary values used for TESS data. Appendix A describes each Data Anomaly Flag in more detail.

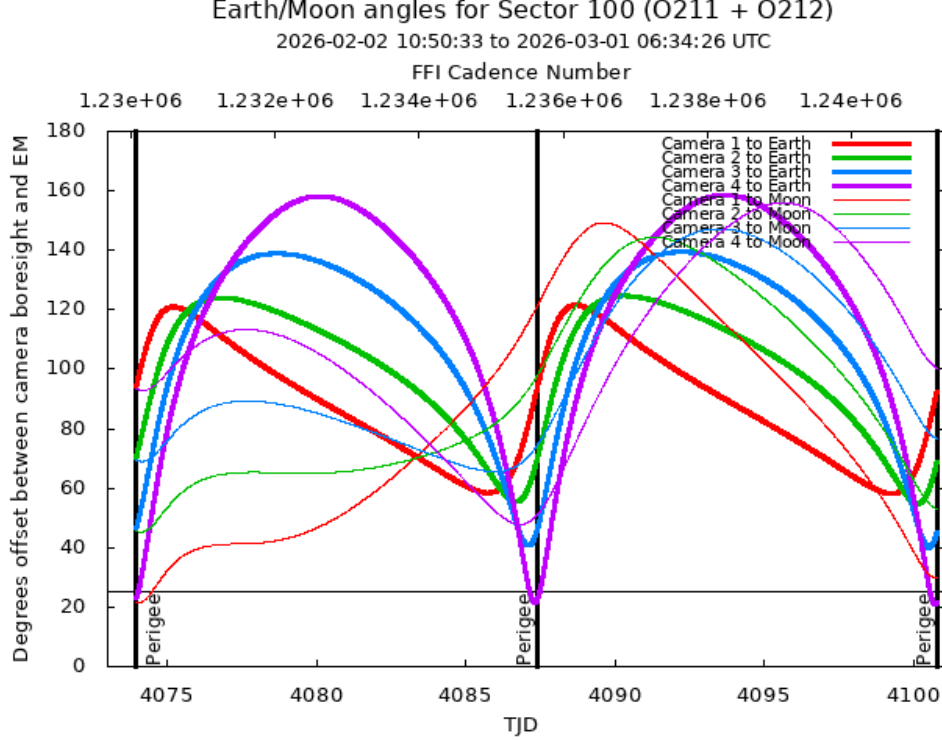


Figure 3: Angle between the four camera boresights and the Earth/Moon as a function of time. When the Earth is within  $\sim 25^\circ$  of a camera’s boresight, transiting planet searches may be compromised by high levels of scattered light. At larger angles, up to  $\sim 35^\circ$ , scattered light patterns and complicated structures may be visible. At yet larger angles, low level patchy features may be visible. Scattered light from the Moon is generally only noticeable below  $\sim 35^\circ$ . This figure can be used to identify periods affected by scattered light and the relative contributions of the Earth and Moon to the background. However, the background intensity and locations of scattered light features depend on additional factors, such as the Earth/Moon azimuth and distance from the spacecraft.

## 2 Pipeline Performance and Results

### 2.1 Light Curves and Photometric Precision

Figure 4 shows an assessment of the PDC systematic error correction of the pipeline by comparing simple aperture photometry light curves from PA and the PDC systematic-error corrected light curves. Figure 5 shows the achieved Combined Differential Photometric Precision (CDPP) at 1-hour timescales for all two-minute targets. We encourage users to examine several light curve quality assessment values (CROWDSAP, PDC\_TOT, PDC\_COR, and PDC\_NOI) that are available in the light curve data product FITS headers; in particular, in the second FITS header of light curve data products (see [SDPDD](#)).

The CROWDSAP keyword represents the fraction of flux in the photometric aperture attributable to the target star (after background correction). A low value for CROWDSAP indicates that other stars contribute a significant amount of flux to the target and the light curve may not isolate variability for the target star of interest.

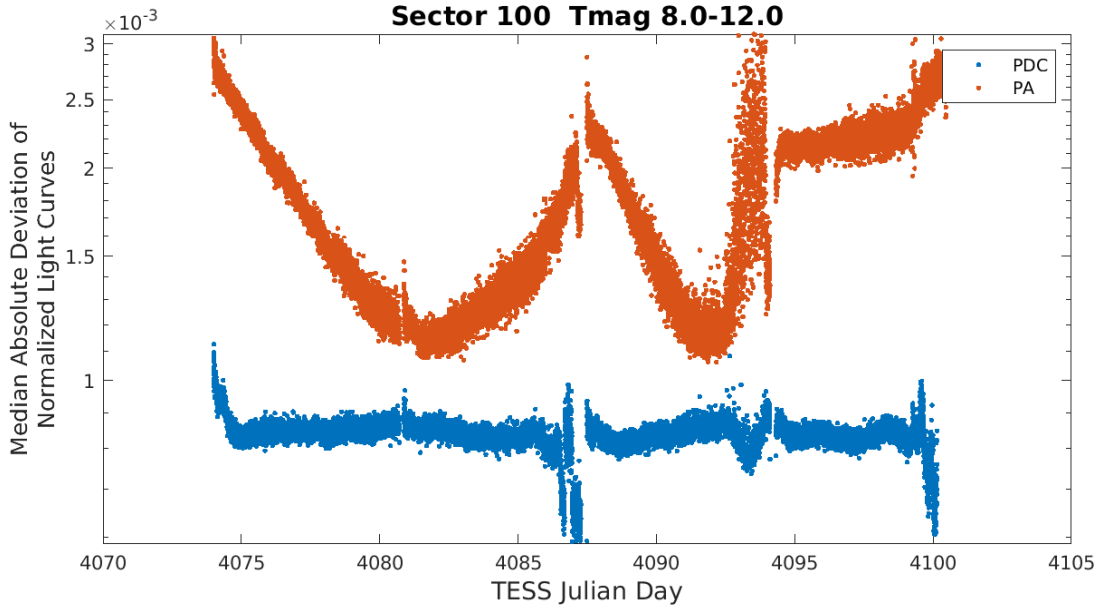


Figure 4: Median absolute deviation (MAD) for the two-minute cadence data from Sector 100, showing the performance of the cotrending after identifying Manual Exclude data quality flags. The MAD is calculated in each cadence across stars with flux variations less than 1% for both the PA (red) and PDC (blue) light curves, where each light curve is normalized by its median flux value. The scatter in the PA light curves is much higher than that for the PDC light curves, and the outliers in the PA light curves are largely absent from the PDC light curves due to the use of the anomaly flags.

The keywords PDC\_TOT, PDC\_COR, and PDC\_NOI assess the quality of the PDC cotrending procedure. Values of the PDC keywords range from 0.0 to 1.0, with values towards 1.0 indicating a high quality of the PDC cotrending outcome (KDPH; §8.3.3.XIV). The correlation goodness metric (PDC\_COR), is calibrated such that a value greater than 0.8 means there is less than 10% mean absolute correlation between the target under study and all other targets on the CCD. The introduced noise metric (PDC\_NOI) is calibrated such that a value greater than 0.8 means the power in broad-band introduced noise is below the level of uncertainties in the flux values. The total goodness metric (PDC\_TOT) provides an overall summary of the cotrending quality.

It should be noted that, beginning in Sector 91, a minimum of 500 targets per CCD has been required to derive CBVs within the PDC module for processing 2-minute cadence observations. If a CCD does not meet this threshold, data from all four CCDs on the corresponding camera are combined for CBV generation. Starting with Sector 97, which marks the beginning of the third extended mission (EM3), a higher proportion of faint targets have been observed. This adversely impacts the quality of CBV generation. To mitigate this effect, an updated criterion has been introduced in Sector 99 wherein each CCD must include at least 500 targets with  $T_{\text{mag}} < 17$  for PDC processing to be performed independently for each CCD. This updated approach will be applied to all subsequent sectors. In Sector 100, CCD grouping was enabled for targets on Camera 1 and Camera 2, while for Cameras 3 and 4, CBVs were generated independently for each CCD.

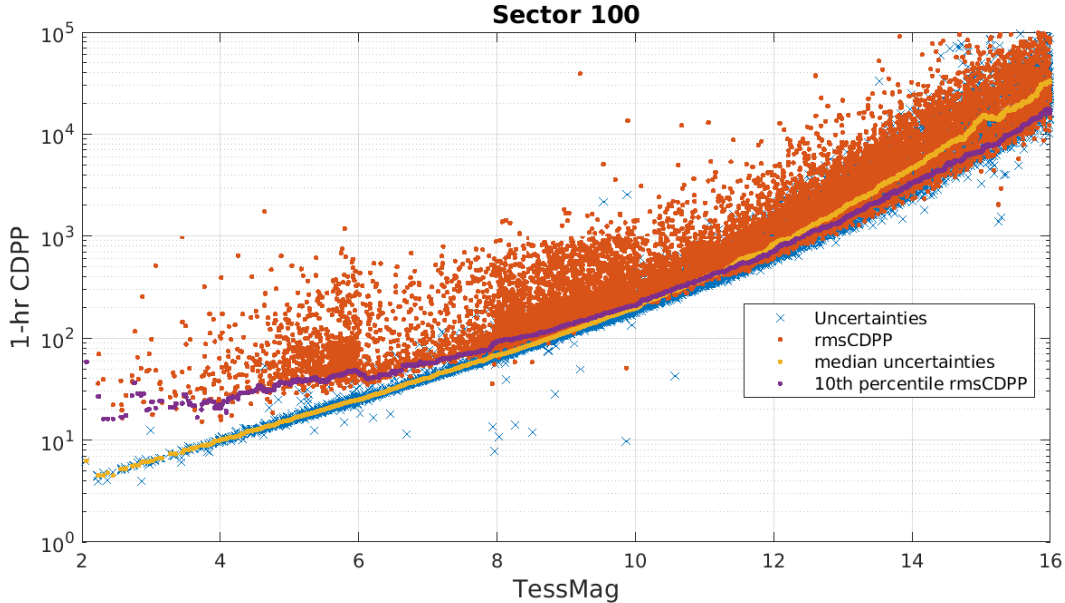


Figure 5: 1-hour CDPP. The red points are the RMS CDPP measurements for the 12988 light curves from Sector 100 plotted as a function of TESS magnitude. The blue x’s are the uncertainties, scaled to 1-hour timescale. The purple curve is a moving 10th percentile of the RMS CDPP measurements, and the gold curve is a moving median of the 1-hr uncertainties.

## 2.2 Transit Search and Data Validation

In Sector 100, the two-minute light curves of 12988 targets were subjected to the transit search in TPS. Of these, Threshold Crossing Events (TCEs) at the  $7.1\sigma$  level were generated for 1572 targets.

We employed an iterative method when conducting the Sector 100 transit search. The top panel of Figure 6 shows the number of TCEs at a given cadence that exhibit a transit signal from an initial run of TPS. The  $3\text{-}\sigma$  peaks were used to define de-emphasis weights for a second run of TPS, the results of which are shown in the bottom panel of Figure 6. The final set of TCEs and the results reported here are based on the second run of TPS. The values of the adopted de-emphasis weights are provided in the DV timeseries data products for targets with TCEs.

The top panel of Figure 7 shows the distribution of orbital periods for the final set of TCEs found in Sector 100. The bimodal nature of the period distribution is due to a large number of two-transit detections with periods ranging from 8 to 20 days, many of which are likely false positives. Two-transit TCEs can be identified with the `NTRANS` keyword in the headers of the dv-timeseries FITS files. The vertical histogram in the right panel of Figure 7 shows the distribution of transit depths derived from limb-darkened transiting planet model fits for TCEs. The model transit depths range down to the order of 100 ppm, but the bulk of the transit depths are considerably larger.

A search for additional TCEs in potential multiple planet systems was conducted in DV through calls to TPS. A total of 2108 TCEs were ultimately identified in the SPOC pipeline on 1572 unique target stars. Table 3 provides a breakdown of the number of TCEs by target.

Note that targets with large numbers of TCEs are likely to include false positives.

Table 3: Sector 100 TCE Numbers

| Number of TCEs | Number of Targets | Total TCEs |
|----------------|-------------------|------------|
| 1              | 1157              | 1157       |
| 2              | 323               | 646        |
| 3              | 67                | 201        |
| 4              | 23                | 92         |
| 5              | 0                 | 0          |
| 6              | 2                 | 12         |
| –              | 1572              | 2108       |

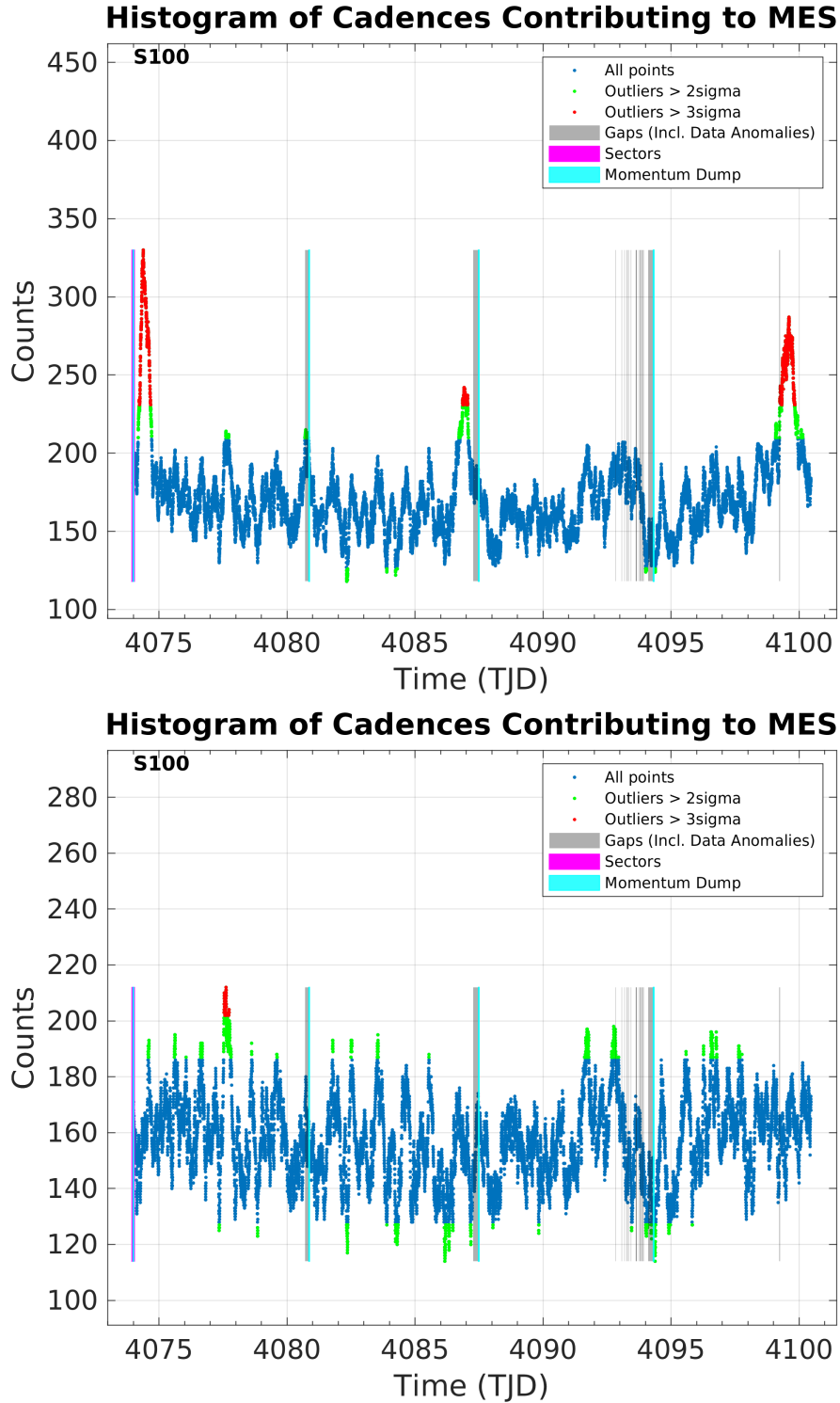


Figure 6: Top panel: Number of TCEs at a given cadence exhibiting a transit signal, based on an initial run of TPS. Any isolated peaks are caused by single events that result in spurious TCEs. These peaks were used to define de-emphasis weights that suppress problematic epochs for the transit detection statistics in a second iteration of TPS. Bottom panel: Results from the second run of TPS.

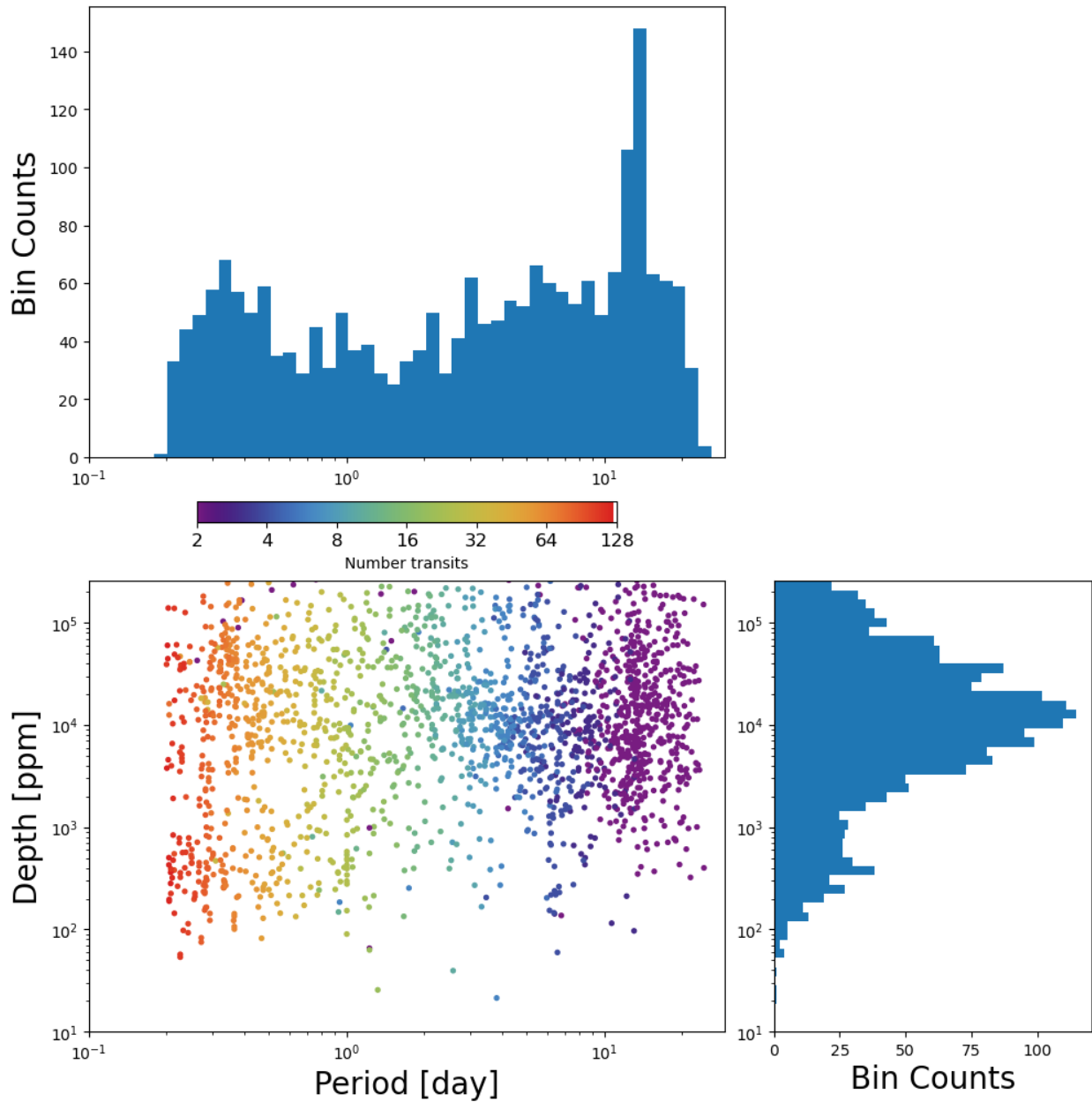


Figure 7: Lower Left Panel: Transit depth as a function of orbital period for the 2108 TCEs identified for the Sector 100 search. Reported depth comes from the DV limb-darkened transit fit depth when available, and the DV trapezoid model fit depth when not available. The number of observed transit events for each TCE is indicated by point color. Top Panel: Orbital period distribution of the TCEs shown in the lower left panel. Right Panel: Transit depth distribution for the TCEs shown in the lower left panel.

## Appendix A: Details of Data Anomaly Flags

See the [SDPDD](#) (§9) for a list of data quality flags and the associated binary values used for TESS data.

The following flags are set by hand, based on mission operations and spacecraft telemetry: bits 1 and 2 (Attitude Tweak and Safe Mode).

Cadences marked with bits 3, 4, 6, and 12 (Coarse Point, Earth Point, Reaction Wheel Desaturation Event, and Predicted Straylight) are flagged based on spacecraft telemetry. Cadences marked with bits 2 and 4 (Safe Mode and Earth Point) have NULL values for the timestamps and data in the target-pixel files and light curve files.

Note that just after the data downlinks near apogee (midpoint of each orbit), the spacecraft pointing is still settling for 20 to 60 seconds after data collection resumes. Cadences during this time are marked with bit 8 (Manual Exclude, described below).

Cadences marked with bit 5 and 10 (Argabrightening Events and Impulsive Outlier) were identified by the SPOC pipeline. Bit 5 marks a sudden change in the background measurements. In practice, bit 5 flags are caused by rapidly changing glints and unstable pointing at times near momentum dumps. Bit 10 marks an outlier identified by PDC and omitted from the cotrending procedure.

The 20-second data mode includes cadences marked with bit 7 and 11 (Cosmic Ray in Optimal Aperture and Cosmic Ray in Collateral Pixel). These flags indicate cadences affected by cosmic rays that are removed by the pipeline, and can be found in both the TPF and LC files. The data provided in the archive products are corrected for cosmic rays, and a FITS table extension in the TPF and Collateral Pixel File details the cosmic rays identified and removed by the pipeline at the pixel level.

Cadences marked with bit 8 (Manual Exclude) are ignored by PDC, TPS, and DV for cotrending and transit searches. These cadences were identified using spacecraft telemetry from the fine pointing system. All cadences with pointing excursions  $>7$  arcsec (0.3 pixel) were flagged for manual exclude. These cadences can also be set manually in order to identify off-nominal data collection (e.g., engineering tests, spacecraft anomalies, etc).

The predicted stray light flag (bit 12, value 2048) is marked in the FFIs and flags times when the Earth/Moon are near the camera FOVs and may interfere with guiding or saturate the detectors. We strongly recommend that users inspect the FFI data before removing images marked with bit 12, as this flag is set based on predictions from mission planning and is known to be conservative with respect to the quality of data usable for analysis. This flag is disabled for the 2-minute and 20-second data products.

The scattered light exclude flag (bit 13, value 4096) identifies cadences at which individual targets are affected by scattered light.

If the Earth/Moon interference is strong enough to saturate the detector, all targets on a CCD slice will be affected and the data are unusable. Cadences with bad calibrations due to saturation are now explicitly marked with bit 15 (value 16384, “Bad Calibration Exclude”). For some cadences, the majority of targets on a CCD may be flagged for scattered light and not enough valid data remains to derive cotrending basis vectors in PDC. No systematic error correction can be applied at these times. This situation is identified by bit 16 (value 32768, “Insufficient Targets for Error Correction Exclude”).

FFIs were only marked with bits 3, 4, 6, 8, 12, and 15 (Coarse Point, Earth Point,

Reaction Wheel Desaturation Events, Manual Exclude, Straylight, and Bad Calibration Exclude). There are no WCS coordinates for FFIs that coincide with momentum dumps (bit 6).

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# Acronyms and Abbreviation List

|             |   |
|-------------|---|
| <b>BTJD</b> | Barycentric-corrected TESS Julian Date      |
| <b>CAL</b>  | Calibration Pipeline Module                 |
| <b>CBV</b>  | Cotrending Basis Vector                     |
| <b>CCD</b>  | Charge Coupled Device                       |
| <b>CDPP</b> | Combined Differential Photometric Precision |
| <b>COA</b>  | Compute Optimal Aperture Pipeline Module    |
| <b>CSCI</b> | Computer Software Configuration Item        |
| <b>CTE</b>  | Charge Transfer Efficiency                  |
| <b>Dec</b>  | Declination                                 |
| <b>DR</b>   | Data Release                                |
| <b>DV</b>   | Data Validation Pipeline Module             |
| <b>DVA</b>  | Differential Velocity Aberration            |
| <b>FFI</b>  | Full Frame Image                            |
| <b>FIN</b>  | FFI Index Number                            |
| <b>FITS</b> | Flexible Image Transport System             |
| <b>FOV</b>  | Field of View                               |
| <b>FPG</b>  | Focal Plane Geometry model                  |
| <b>KDPH</b> | Kepler Data Processing Handbook             |
| <b>KIH</b>  | Kepler Instrument Handbook                  |
| <b>KOI</b>  | Kepler Object of Interest                   |
| <b>MAD</b>  | Median Absolute Deviation                   |
| <b>MAP</b>  | Maximum A Posteriori                        |
| <b>MAST</b> | Mikulski Archive for Space Telescopes       |
| <b>MES</b>  | Multiple Event Statistic                    |
| <b>NAS</b>  | NASA Advanced Supercomputing Division       |
| <b>PA</b>   | Photometric Analysis Pipeline Module        |

**PDC** Presearch Data Conditioning Pipeline Module

**PDC-MAP** Presearch Data Conditioning Maximum A Posteriori algorithm

**PDC-msMAP** Presearch Data Conditioning Multiscale Maximum A Posteriori algorithm

**PDF** Portable Document Format

**POC** Payload Operations Center

**POU** Propagation of Uncertainties

**PPA** Photometer Performance Assessment

**ppm** Parts-per-million

**PRF** Pixel Response Function

**RA** Right Ascension

**RMS** Root Mean Square

**SAP** Simple Aperture Photometry

**SDPDD** Science Data Products Description Document

**SNR** Signal-to-Noise Ratio

**SPOC** Science Processing Operations Center

**SVD** Singular Value Decomposition

**TCE** Threshold Crossing Event

**TESS** Transiting Exoplanet Survey Satellite

**TIC** TESS Input Catalog

**TIH** TESS Instrument Handbook

**TJD** TESS Julian Date

**TOI** TESS Object of Interest

**TPS** Transiting Planet Search Pipeline Module

**UTC** Coordinated Universal Time

**WCS** World Coordinate System

**XML** Extensible Markup Language