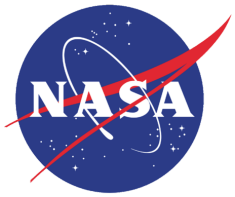


Data Validation (DV) Report
for Kepler ID 10552263
Quarters 1 - 16

16-Aug-2013 04:40:51 Z

Contents

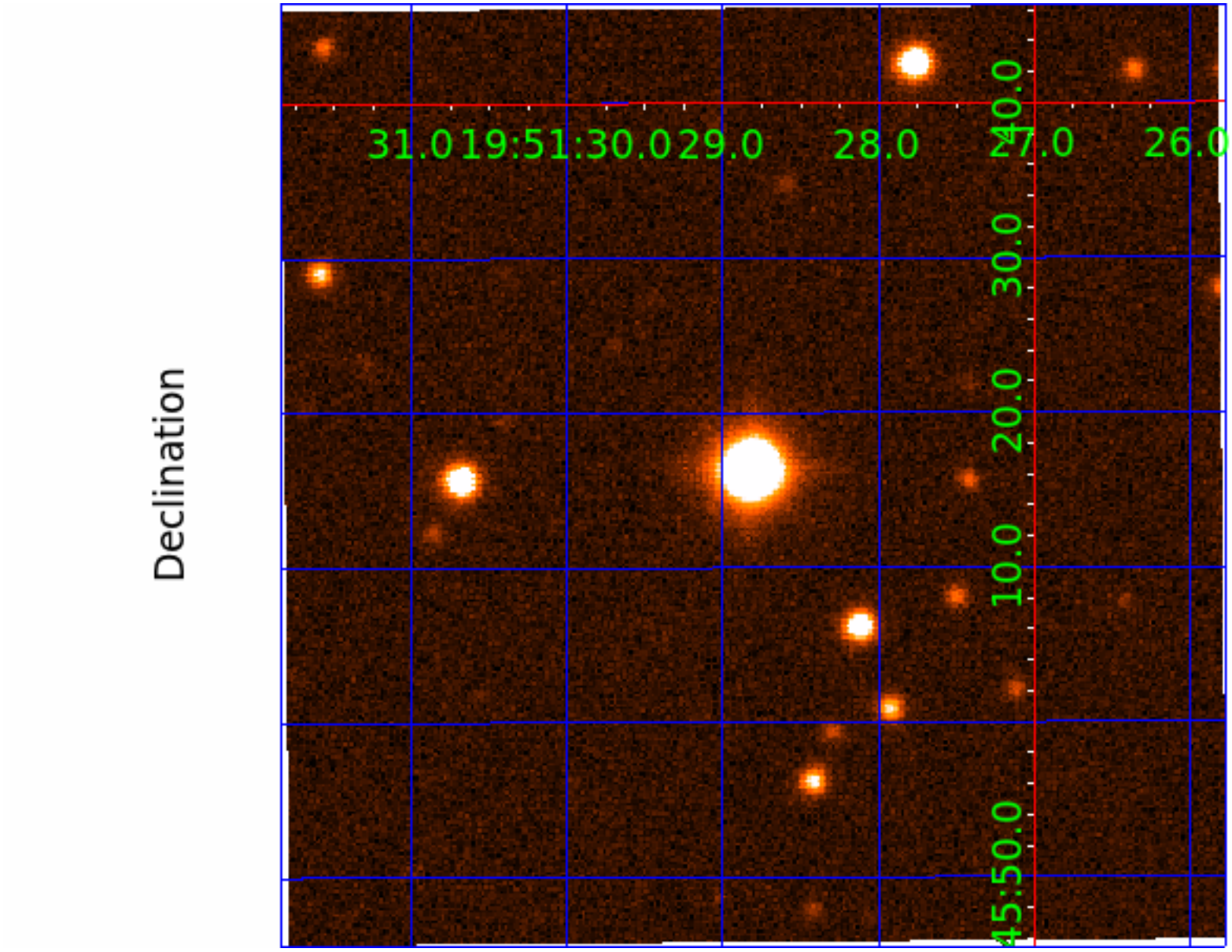
1 Summary

Target Properties	Value	Uncertainty	Units	Provenance
Sky Group	35			
RA	19.85800130	0	hours	KIC
Dec	47.77109000	0	degrees	KIC
Magnitude	12.355	0		KIC
Radius	0.97	0.522	Solar radii	DSEP
Effective Temperature	5914	173	Kelvin	PHO1
log(g)	4.45	0.353	cm/sec^2	KIC0
[Fe/H]	-0.12	0.3	Solar metallicity	KIC0
Number of Planet Candidates	1			
Categories	PDQ_STELLAR, MERGED, PLANETARY, PPA_STELLAR			
Prior Pipeline Instance ID	-			
External TCE Model	-			
Software Revision	svn+ssh://murzim/repo/soc/tags/release/9.1.2@52755			
Date Report Generated	16-Aug-2013 04:40:51 Z			

Quarter	Target Table	Module/ Output	Crowding Metric	Flux Fraction	Limb Darkening Coefficients 1	2	3	4
1	20	23/3	0.9880	0.9441	0.4273	0.3821	0.0032	-0.0866
2	21	15/3	0.9853	0.9529	0.4273	0.3821	0.0032	-0.0866
3	26	3/3	0.9921	0.8914	0.4273	0.3821	0.0032	-0.0866
4	29	11/3	0.9823	0.9437	0.4273	0.3821	0.0032	-0.0866
5	32	23/3	0.9877	0.9372	0.4273	0.3821	0.0032	-0.0866
6	35	15/3	0.9850	0.9517	0.4273	0.3821	0.0032	-0.0866
8	41	11/3	0.9823	0.9440	0.4273	0.3821	0.0032	-0.0866
9	44	23/3	0.9877	0.9373	0.4273	0.3821	0.0032	-0.0866
10	47	15/3	0.9851	0.9515	0.4273	0.3821	0.0032	-0.0866
12	53	11/3	0.9823	0.9428	0.4273	0.3821	0.0032	-0.0866
13	56	23/3	0.9876	0.9373	0.4273	0.3821	0.0032	-0.0866
14	59	15/3	0.9852	0.9517	0.4273	0.3821	0.0032	-0.0866
16	65	11/3	0.9823	0.9422	0.4273	0.3821	0.0032	-0.0866

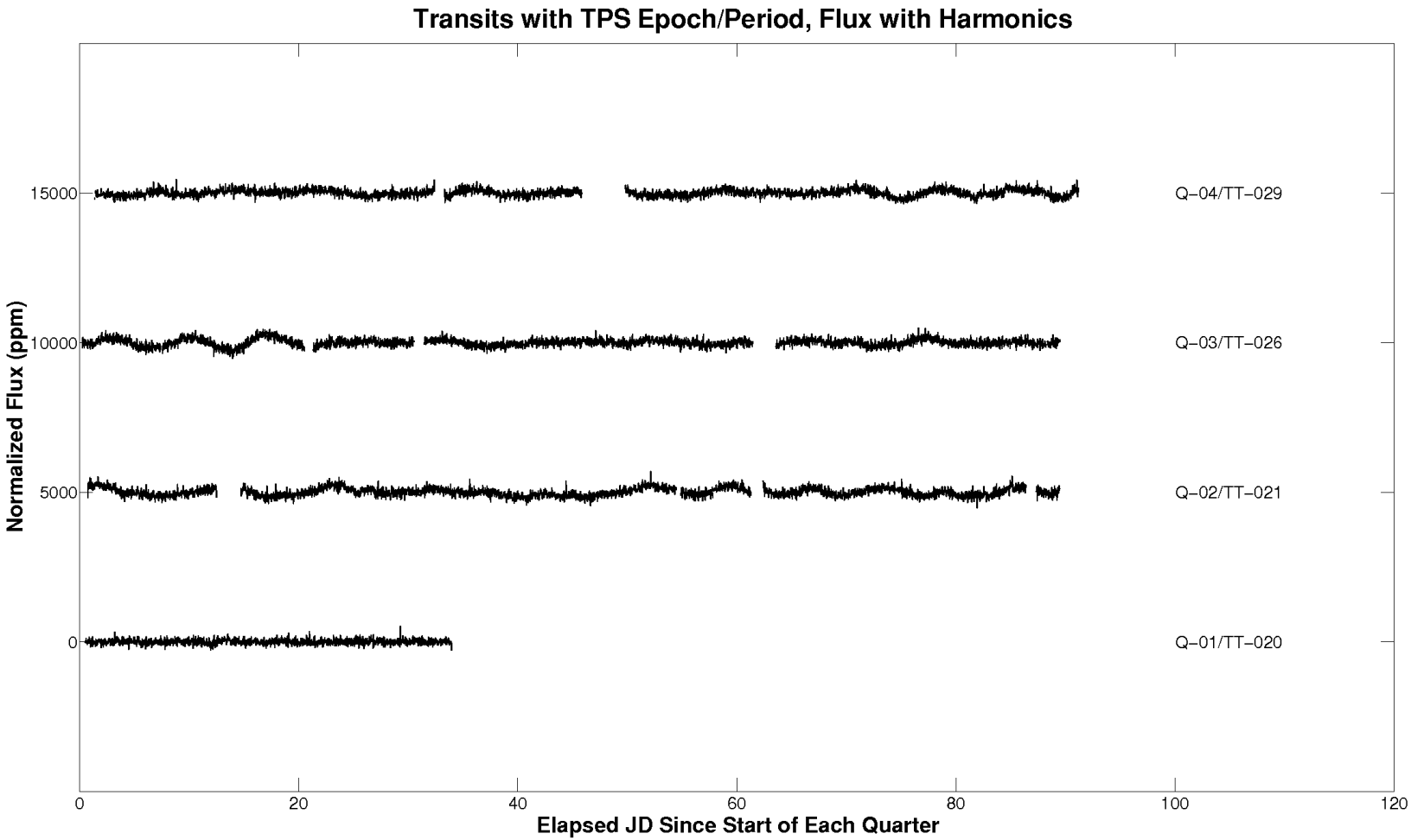
Planet Candidate	TPS Period (days)	DV Period (days)	Period Ratio (DV)	TPS Epoch (JD-2454833)	DV Epoch (BKJD)	Semi-major Axis (AU)	Radius (Earth radii)	False Alarm	Suspected EB
1	313.8	313.8	1.0	166.5	166.5	0.9	1.3	N/A	false

2 UKIRT Image

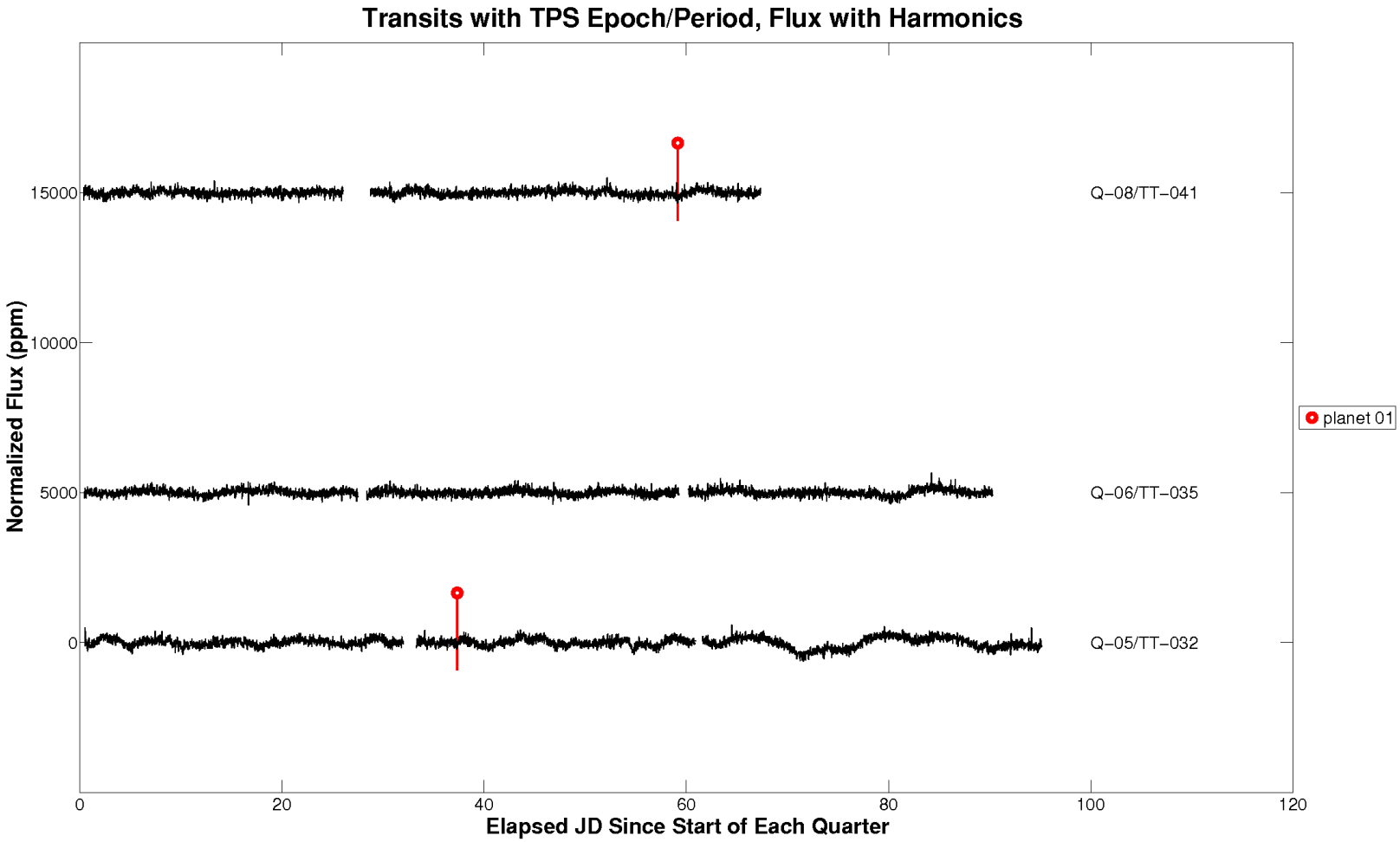


UKIRT Wide Field Camera (WFCAM) infra-red J-band image. The 1' x 1' image is centered on the target (10552263).

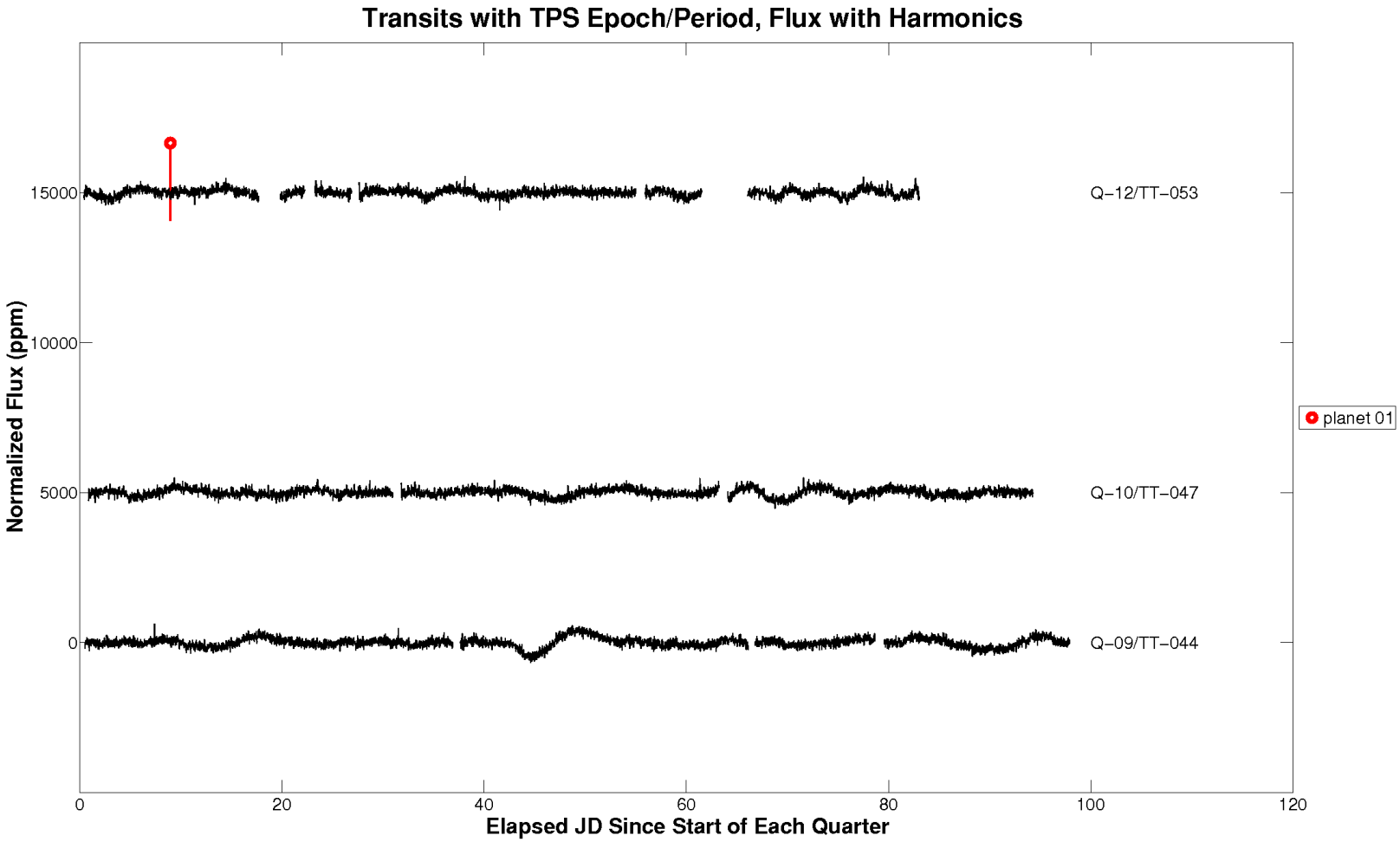
3 Flux Time Series



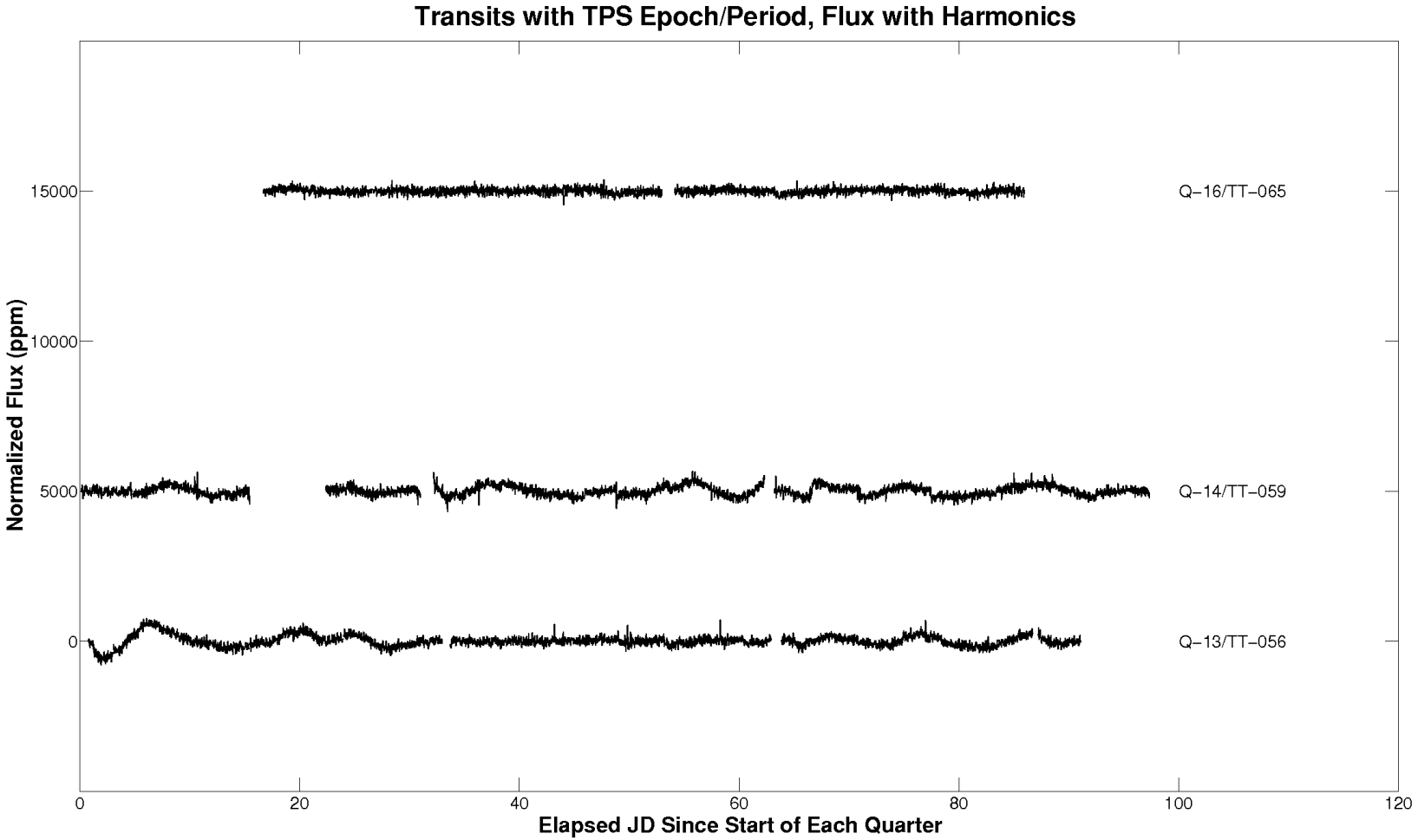
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with TPS epoch/period. Transits of identified planets are labeled with epoch KJD and orbital period determined by TPS. For the data of quarter 1, target table 20, start JD is 2454964 and the vertical offset is 0 ppm. For the data of quarter 2, target table 21, start JD is 2455002 and the vertical offset is 5000 ppm. For the data of quarter 3, target table 26, start JD is 2455093 and the vertical offset is 10000 ppm. For the data of quarter 4, target table 29, start JD is 2455184 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-tps-01-020.fig`



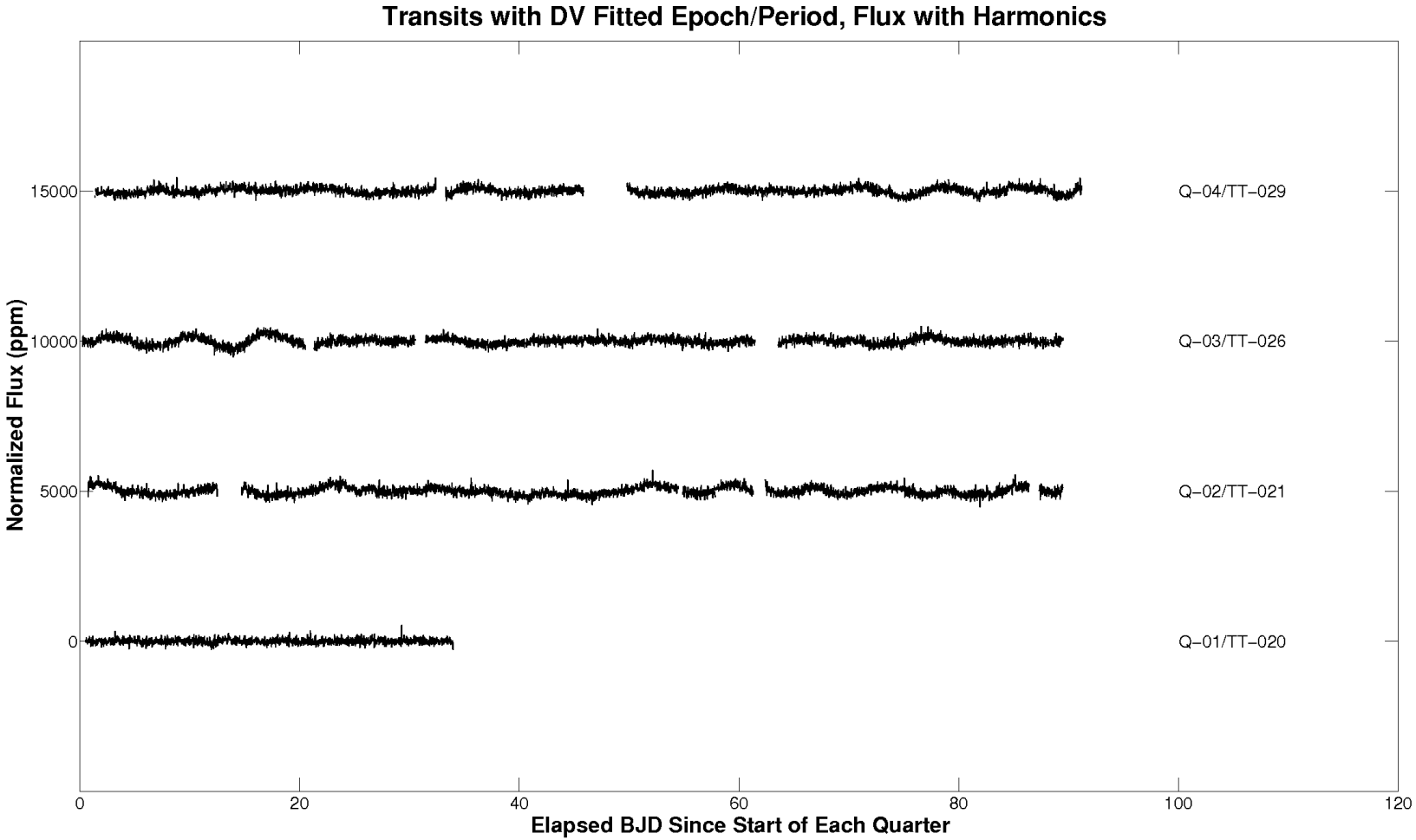
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with TPS epoch/period. Transits of identified planets are labeled with epoch KJD and orbital period determined by TPS. For the data of quarter 5, target table 32, start JD is 2455276 and the vertical offset is 0 ppm. For the data of quarter 6, target table 35, start JD is 2455372 and the vertical offset is 5000 ppm. For the data of quarter 7, target table 38, start JD is 2455463 and the vertical offset is 10000 ppm. For the data of quarter 8, target table 41, start JD is 2455568 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-tps-05-032.fig`



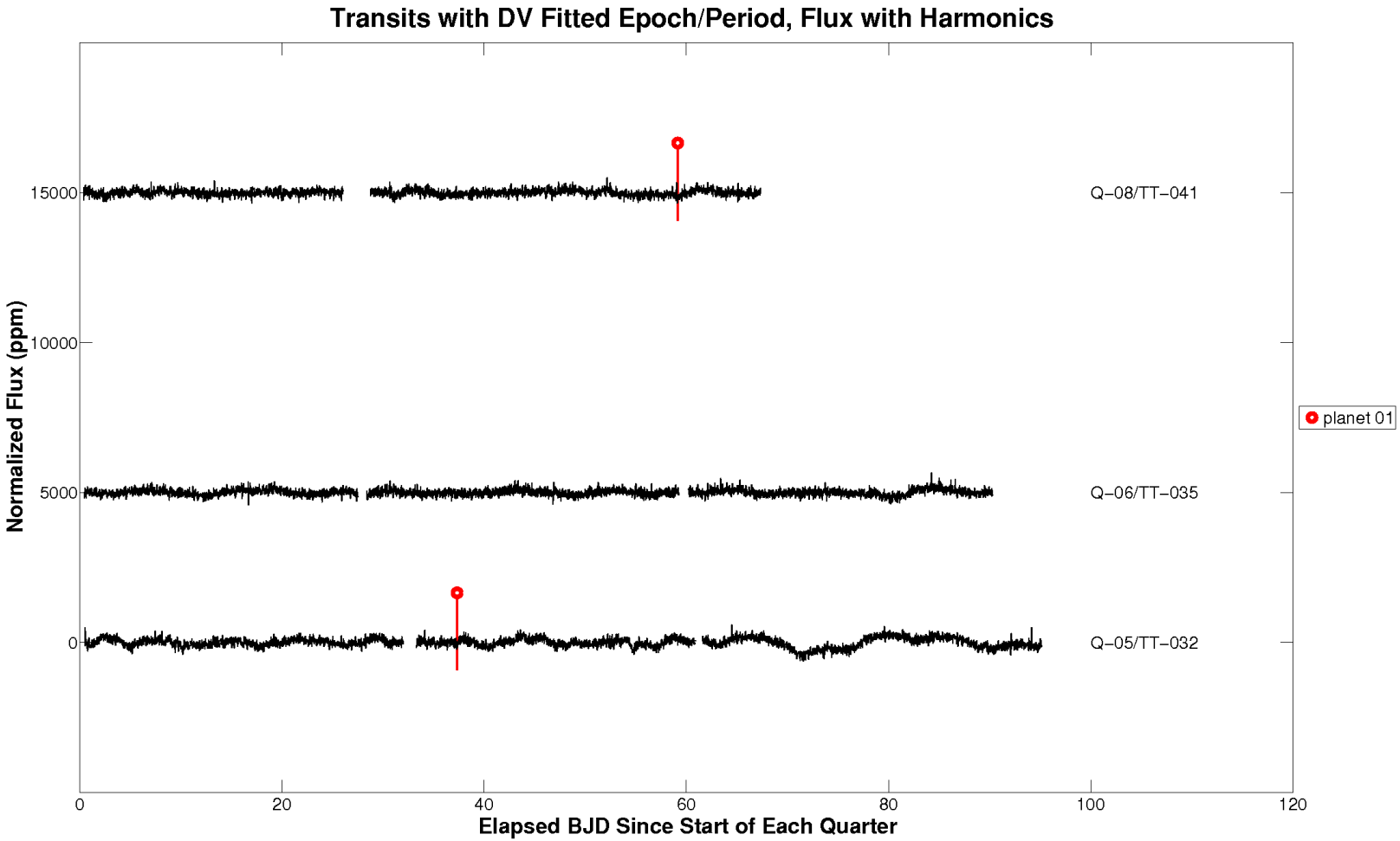
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with TPS epoch/period. Transits of identified planets are labeled with epoch KJD and orbital period determined by TPS. For the data of quarter 9, target table 44, start JD is 2455641 and the vertical offset is 0 ppm. For the data of quarter 10, target table 47, start JD is 2455739 and the vertical offset is 5000 ppm. For the data of quarter 11, target table 50, start JD is 2455834 and the vertical offset is 10000 ppm. For the data of quarter 12, target table 53, start JD is 2455932 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-tps-09-044.fig`



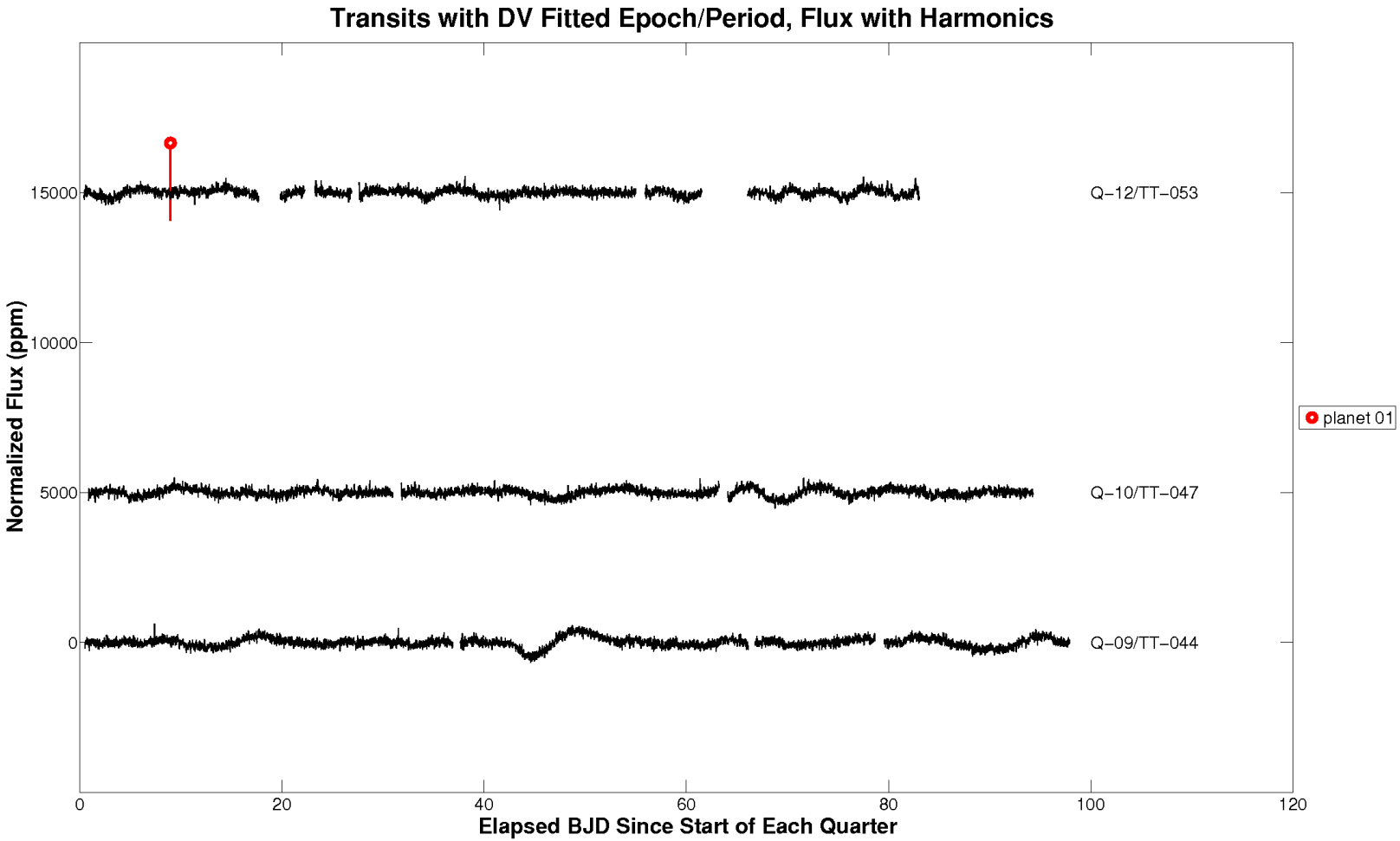
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with TPS epoch/period. Transits of identified planets are labeled with epoch KJD and orbital period determined by TPS. For the data of quarter 13, target table 56, start JD is 2456015 and the vertical offset is 0 ppm. For the data of quarter 14, target table 59, start JD is 2456107 and the vertical offset is 5000 ppm. For the data of quarter 15, target table 62, start JD is 2456206 and the vertical offset is 10000 ppm. For the data of quarter 16, target table 65, start JD is 2456305 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-tps-13-056.fig`



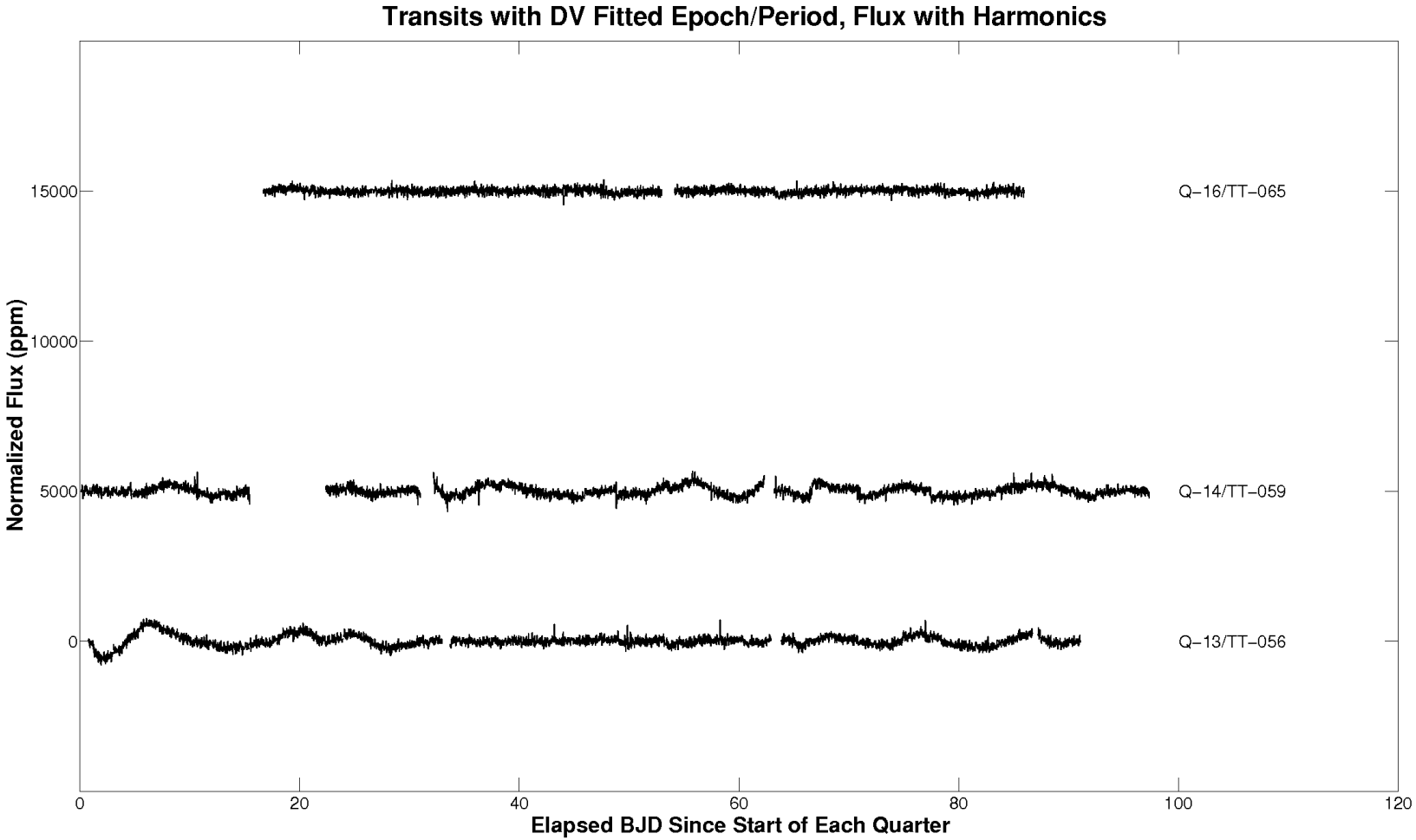
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with DV fitted epoch/period. Transits of identified planets are labeled with epoch BKJD and orbital period determined by DV transit fitter. For the data of quarter 1, target table 20, start BJD is 2454964 and the vertical offset is 0 ppm. For the data of quarter 2, target table 21, start BJD is 2455002 and the vertical offset is 5000 ppm. For the data of quarter 3, target table 26, start BJD is 2455093 and the vertical offset is 10000 ppm. For the data of quarter 4, target table 29, start BJD is 2455184 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-dv-fit-01-020.fig`



Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with DV fitted epoch/period. Transits of identified planets are labeled with epoch BKJD and orbital period determined by DV transit fitter. For the data of quarter 5, target table 32, start BJD is 2455276 and the vertical offset is 0 ppm. For the data of quarter 6, target table 35, start BJD is 2455372 and the vertical offset is 5000 ppm. For the data of quarter 7, target table 38, start BJD is 2455463 and the vertical offset is 10000 ppm. For the data of quarter 8, target table 41, start BJD is 2455568 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-dv-fit-05-032.fig`



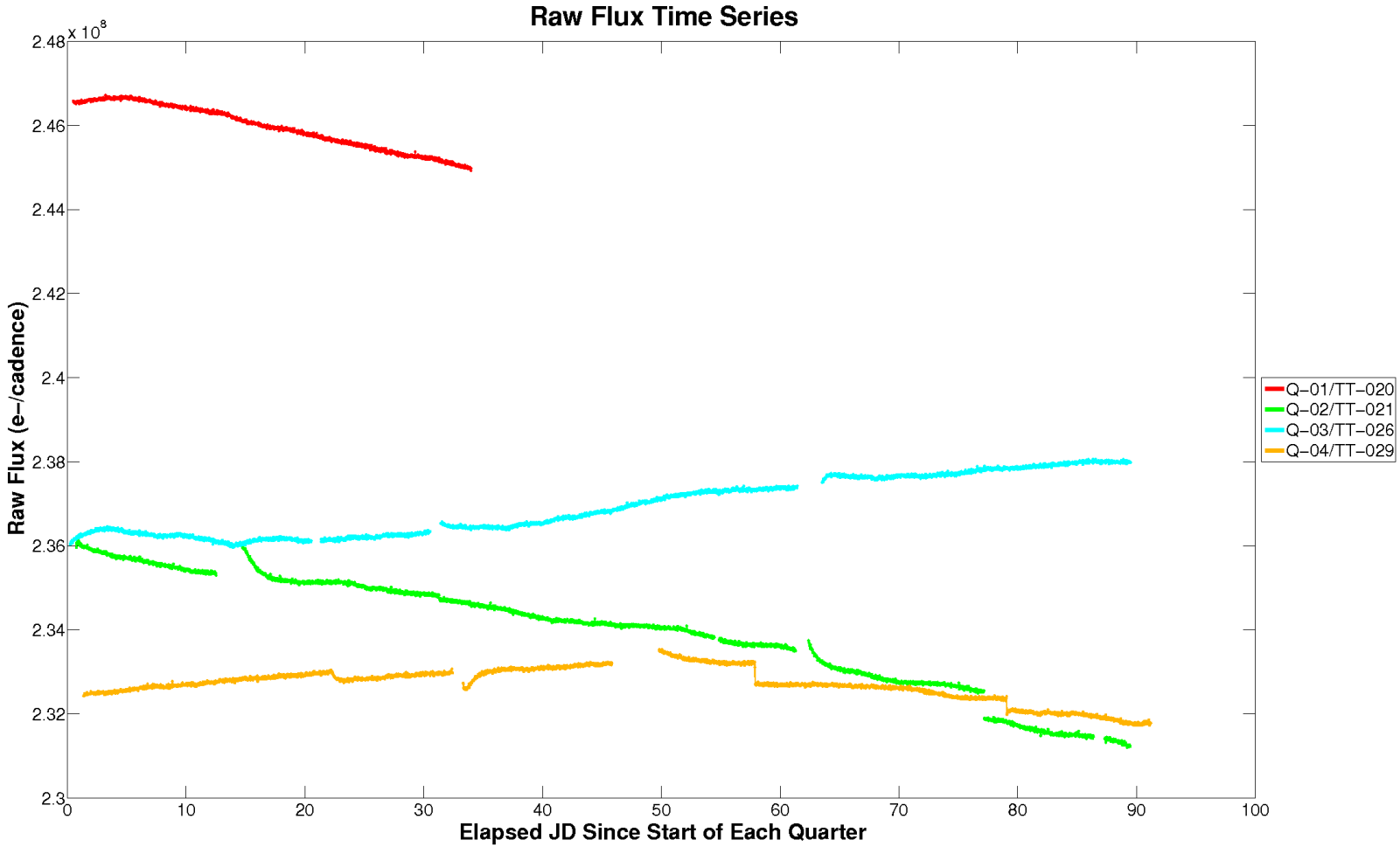
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with DV fitted epoch/period. Transits of identified planets are labeled with epoch BKJD and orbital period determined by DV transit fitter. For the data of quarter 9, target table 44, start BJD is 2455641 and the vertical offset is 0 ppm. For the data of quarter 10, target table 47, start BJD is 2455739 and the vertical offset is 5000 ppm. For the data of quarter 11, target table 50, start BJD is 2455834 and the vertical offset is 10000 ppm. For the data of quarter 12, target table 53, start BJD is 2455932 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-dv-fit-09-044.fig`



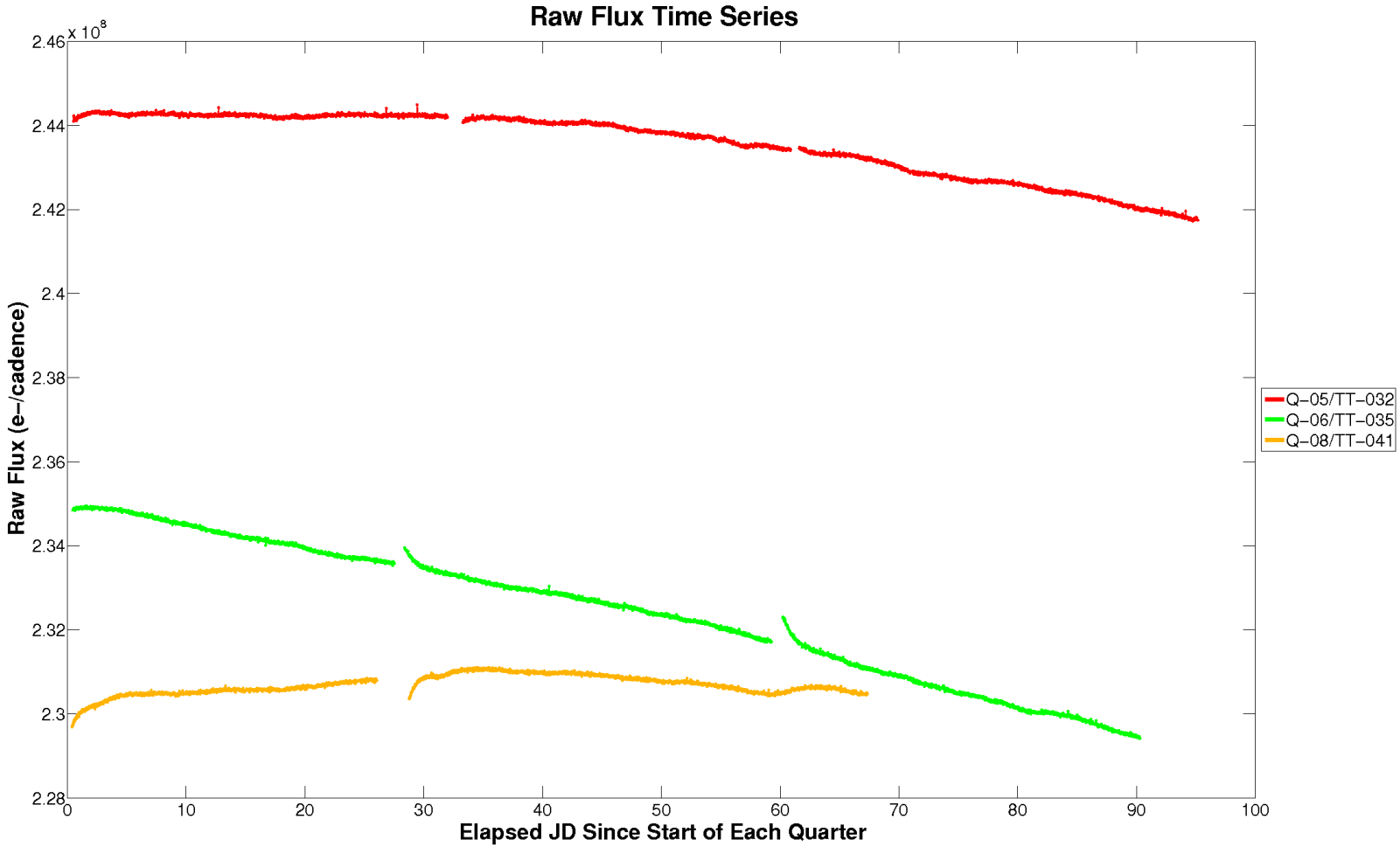
Summary plot of PDC flux time series (with harmonic content) and transits for target 10552263, marked with DV fitted epoch/period. Transits of identified planets are labeled with epoch BKJD and orbital period determined by DV transit fitter. For the data of quarter 13, target table 56, start BJD is 2456015 and the vertical offset is 0 ppm. For the data of quarter 14, target table 59, start BJD is 2456107 and the vertical offset is 5000 ppm. For the data of quarter 15, target table 62, start BJD is 2456206 and the vertical offset is 10000 ppm. For the data of quarter 16, target table 65, start BJD is 2456305 and the vertical offset is 15000 ppm.
Open `./summary-plots/010552263-00-flux-with-harmonics-dv-fit-13-056.fig`

`No figures named 010552263-00-flux-harmonics-free-tps-*.fig are available.`

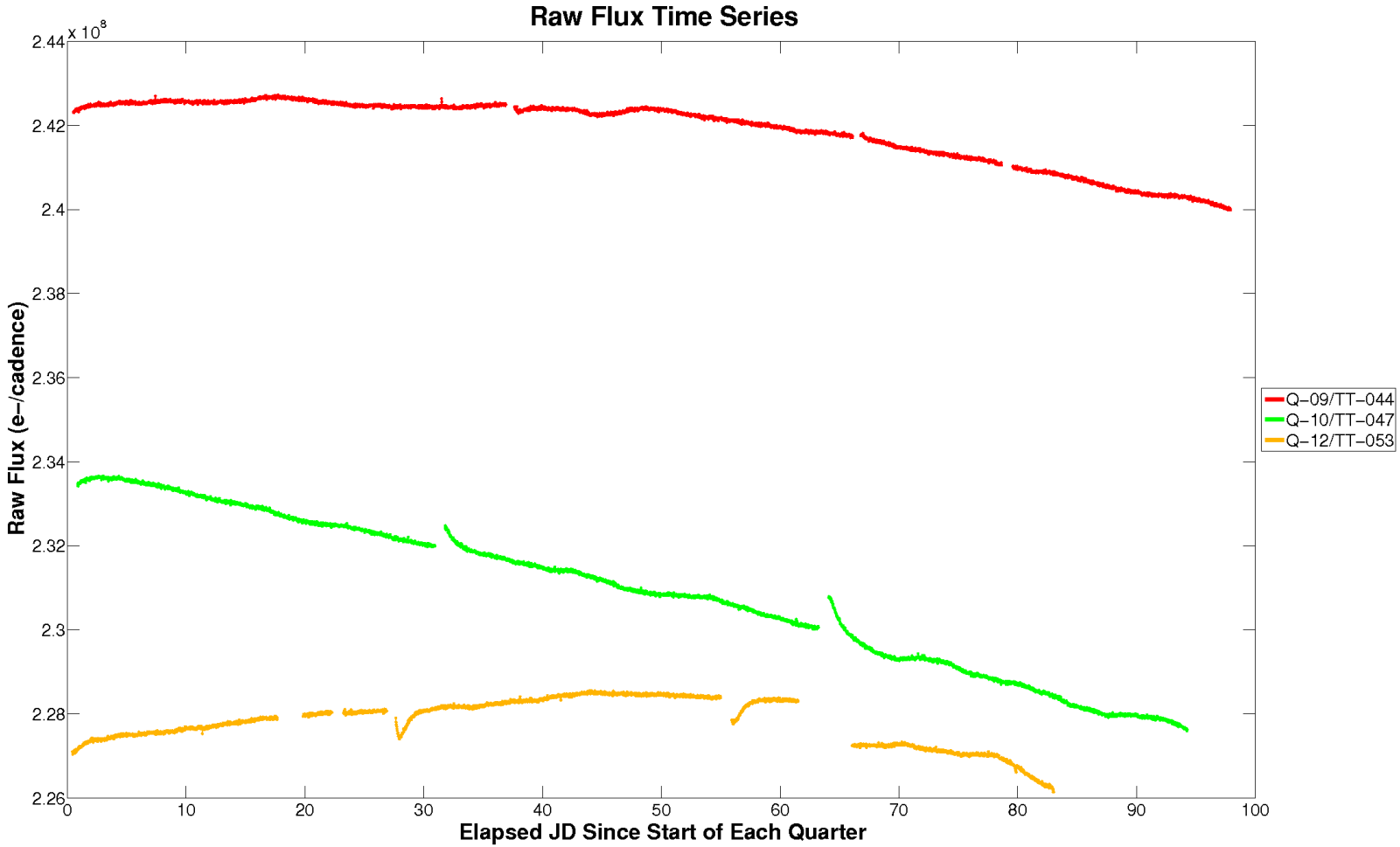
`No figures named 010552263-00-flux-harmonics-free-dv-fit-*.fig are available.`



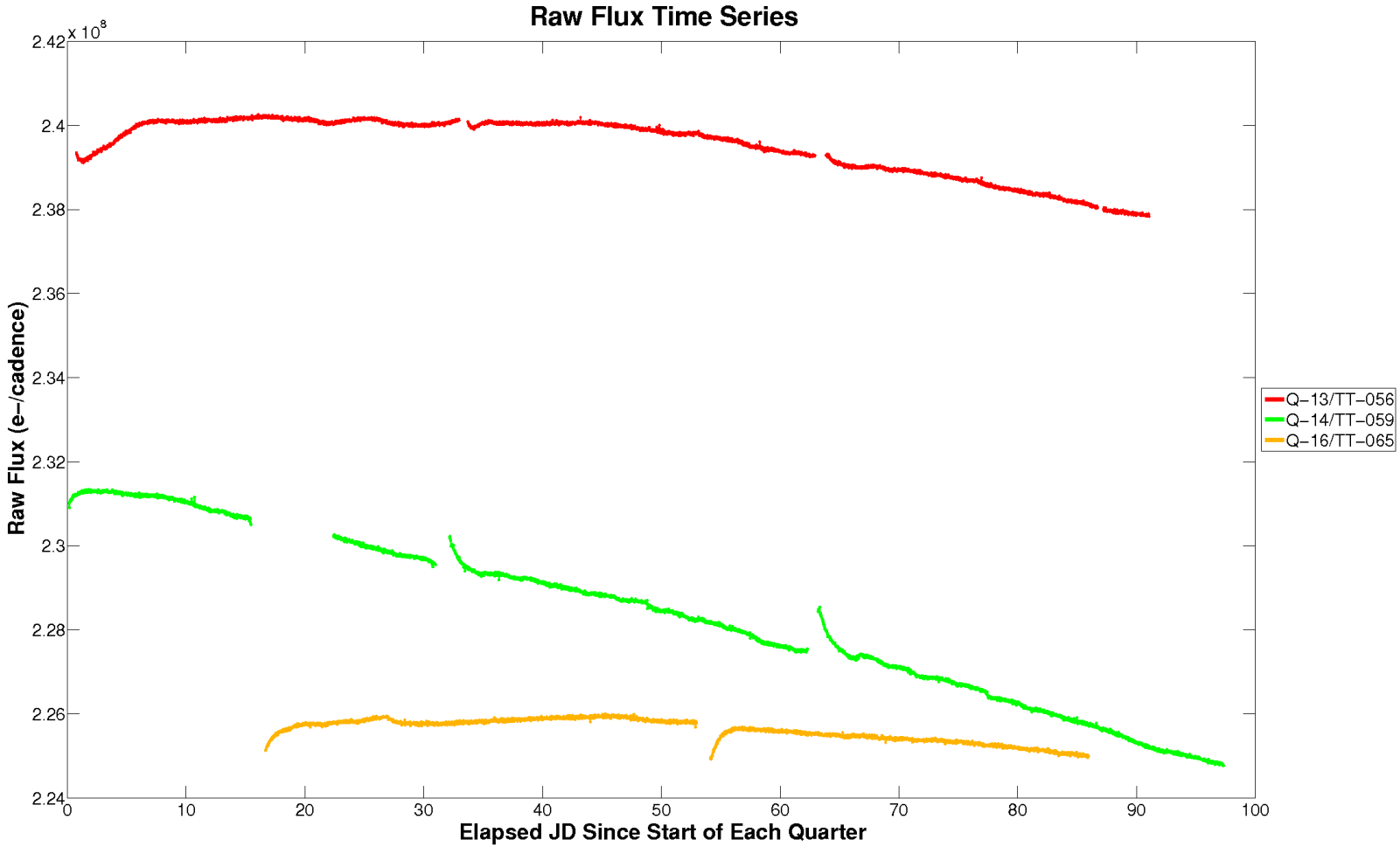
Summary plot of raw flux time series. For the data of quarter 1, target table 20, start JD is 2454964 and the vertical offset is 0 electrons/cadence. For the data of quarter 2, target table 21, start JD is 2455002 and the vertical offset is 0 electrons/cadence. For the data of quarter 3, target table 26, start JD is 2455093 and the vertical offset is 0 electrons/cadence. For the data of quarter 4, target table 29, start JD is 2455184 and the vertical offset is 0 electrons/cadence.
Open `./summary-plots/010552263-00-raw-flux-01-020.fig`



Summary plot of raw flux time series. For the data of quarter 5, target table 32, start JD is 2455276 and the vertical offset is 0 electrons/cadence. For the data of quarter 6, target table 35, start JD is 2455372 and the vertical offset is 0 electrons/cadence. For the data of quarter 7, target table 38, start JD is 2455463 and the vertical offset is 0 electrons/cadence. For the data of quarter 8, target table 41, start JD is 2455568 and the vertical offset is 0 electrons/cadence.
Open `./summary-plots/010552263-00-raw-flux-05-032.fig`



Summary plot of raw flux time series. For the data of quarter 9, target table 44, start JD is 2455641 and the vertical offset is 0 electrons/cadence. For the data of quarter 10, target table 47, start JD is 2455739 and the vertical offset is 0 electrons/cadence. For the data of quarter 11, target table 50, start JD is 2455834 and the vertical offset is 0 electrons/cadence. For the data of quarter 12, target table 53, start JD is 2455932 and the vertical offset is 0 electrons/cadence.
Open `./summary-plots/010552263-00-raw-flux-09-044.fig`



Summary plot of raw flux time series. For the data of quarter 13, target table 56, start JD is 2456015 and the vertical offset is 0 electrons/cadence. For the data of quarter 14, target table 59, start JD is 2456107 and the vertical offset is 0 electrons/cadence. For the data of quarter 15, target table 62, start JD is 2456206 and the vertical offset is 0 electrons/cadence. For the data of quarter 16, target table 65, start JD is 2456305 and the vertical offset is 0 electrons/cadence.
Open `./summary-plots/010552263-00-raw-flux-13-056.fig`

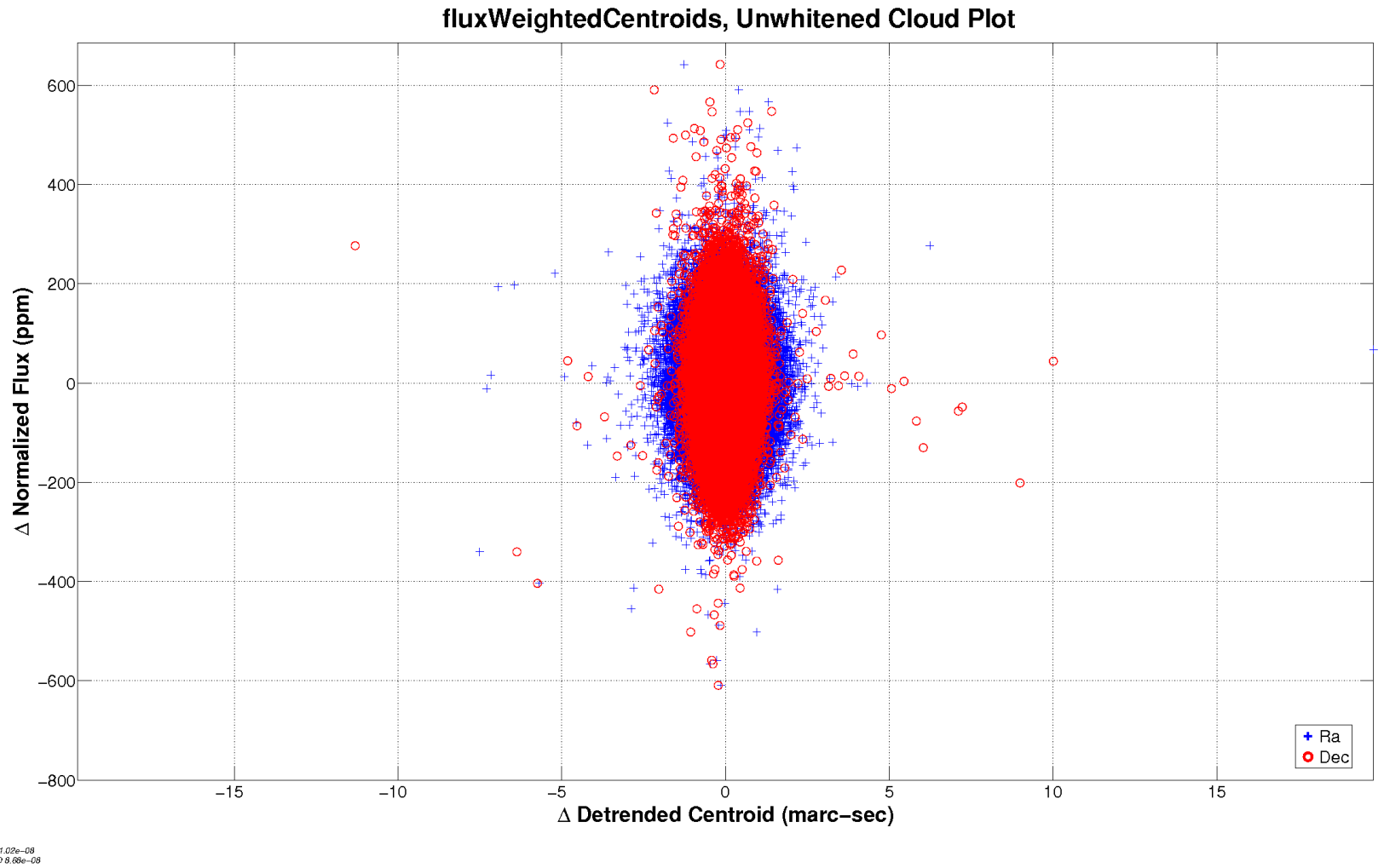
4 Dashboards

Planet Candidate 1

<table>
<tr><td rowspan="2">Model Fitter</td><td colspan="2">Stellar Radius
1.0 ± 0.0 Solar units</td><td rowspan="2">Flux Weighted Motion Detection Statistic
Value = 4.05e+00
Significance = 13.19%
Peak RA Offset -1.08e-04 ± 3.95e-04 arcsec (-0.27 σ)
Peak Dec Offset = 3.39e-04 ± 3.14e-04 arcsec (1.1 σ)
Peak Offset Distance = 3.56e-04 ± 3.22e-04 arcsec (1.1 σ)
Source RA Offset = 6.57e-01 ± 2.09e+00 arcsec (0.31 σ)
Source Dec Offset = -1.44e+00 ± 1.66e+00 arcsec (-0.87 σ)
Source Offset Distance = 1.59e+00 ± 1.74e+00 arcsec (0.91 σ)</td><td rowspan="2">Centroid Test</td></tr>
<tr><td colspan="2">Period = 313.8 ± 0.0 days
Depth = 189 ± 29 ppm
Planet Radius = 1.3 ± 3.4 Earth radii
Semi-major Axis = 0.9 ± 0.0 AU
Equilibrium Temperature = 272 ± 73 Kelvin
Chi-squared/DoF = 1.1
SNR = 7.6</td></tr>
<tr><td rowspan="2">Eclipsing Binary Discrimination Test</td><td>Odd-Even Depth Comparison Statistic
Value = 2.31e-01
Significance = 63.09%</td><td>Odd-Even Epoch Comparison Statistic
Value = 2.07e-03
Significance = 96.37%</td><td>Offsets Relative to Out of Transit Centroid
Source RA Offset = 1.47e+00 ± 1.37e+00 arcsec (1.07 σ)
Source Dec Offset = 6.10e-01 ± 9.21e-01 arcsec (0.66 σ)
Source Offset Distance = 1.59e+00 ± 1.31e+00 arcsec (1.21 σ)
Offsets Relative to KIC Position
Source RA Offset = 1.57e+00 ± 1.31e+00 arcsec (1.20 σ)
Source Dec Offset = 1.01e+00 ± 8.73e-01 arcsec (1.16 σ)
Source Offset Distance = 1.87e+00 ± 1.20e+00 arcsec (1.56 σ)</td><td>Difference Image Centroid Offsets</td></tr>
<tr><td>Shorter Period Comparison Statistic
Value = N/A
Significance = N/A</td><td>Longer Period Comparison Statistic
Value = N/A
Significance = N/A</td><td>False Alarm = N/A
Final Skip Count = N/A
Observed Number of Transits = 3
Max Multiple Event Statistic = 7.12e+00</td><td>Bootstrap Test</td></tr>
</table>

Summary of model fitter results and validation test results for target 10552263, planet candidate 1. In general, green denotes that the candidate is likely a planet, while red denotes that the candidate is unlikely to be a planet. Cyan denotes that no data is available. The color of the Model Fitter block is: green, when the SNR of the fit is greater than or equal to 10; yellow, if the SNR is greater than or equal to 7.1 but less than 10; red, if the SNR is less than 7.1 or if the fitter failed. The color of the Centroid Test and Eclipsing Binary Discrimination Test blocks are: green, when the significance is within 2-sigma; yellow, when the significance is between 2- and 3-sigma; red when the significance is greater than 3-sigma. The color of the Difference Image Centroid Offsets block is: green, when the max offset distance sigma is less than or equal to 2; yellow, when the max sigma is between 2 and 3; red when the max sigma is greater than 3. The color of the Bootstrap Test block is green whenever the false alarm probability is less than 10^{-12}, low enough to limit the total number of false alarms from a four year mission to less than one. If the false alarm probability is greater than 10^{-12}, the color of the Bootstrap Test block is: green, when the false alarm probability is less than or equal to the CCDF of a Gaussian distribution at the observed maximum multiple event statistic; yellow when the false alarm probability is between 1 and 2 times that of a Gaussian distribution at the max multiple event statistic; and red when the false alarm probability is more than 2 times that of a Gaussian distribution at the max multiple event statistic.

5 Centroid Cloud Plot



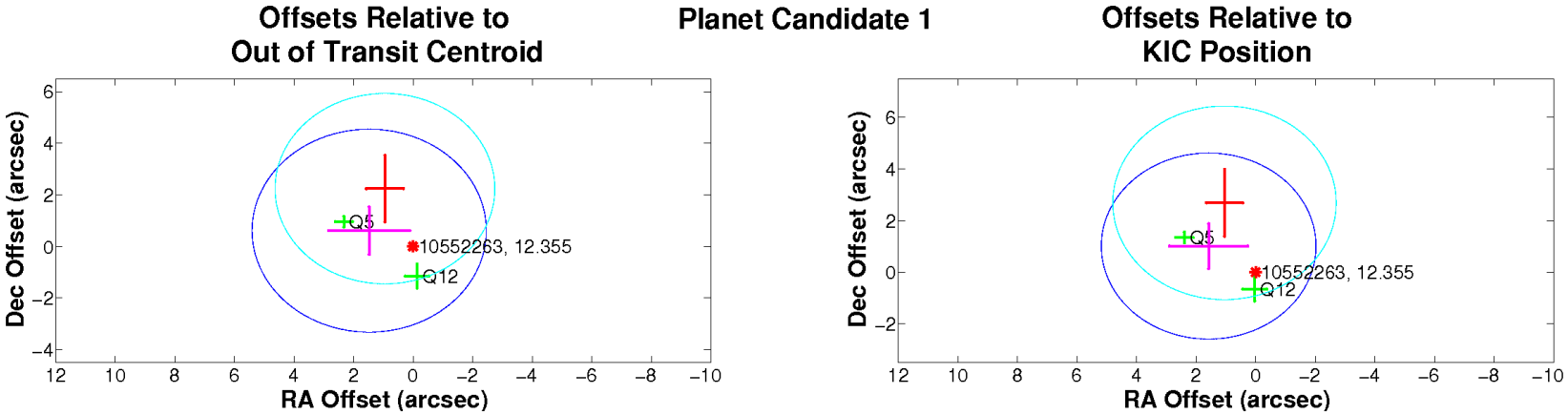
KeplerId 10552263, KeplerMag 12.355 - This figure shows median detrended flux as a function of median detrended centroids for both ra and dec on the sky. Transit features above the noise jitter are seen as scatter outside the central cloud. Features in the flux time series are seen in the vertical direction while features in the centroid time series are seen in the horizontal direction. Any tilt to the out-of-cloud scatter indicates correlation between transit features in the flux and centroid time series. The out of transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust values.
Open `./summary-plots/010552263-00-fluxWeighted-centroids-cloud.fig`

6 Pixel Level Diagnostics

6.1 Planet Candidate 1

Difference Image Summary Metrics

Number of Difference Images	Number of Metrics	Number of Good Metrics	Fraction of Good Metrics	Quality Threshold
3	2	2	1.0000	0.70



Difference image centroid offsets for target 10552263, planet candidate 1. Left: difference image PRF centroid offsets in RA and Dec with respect to the quarterly out-of-transit centroids for the given target. Right: difference image PRF centroid offsets in RA and Dec with respect to the KIC coordinates of the given target. Symbol key: green cross: quarterly centroid offsets with 1-sigma error bars in RA and Dec; magenta cross: robust weighted mean offset over all quarters with 1-sigma error bars in RA and Dec; blue circle: 3-sigma radius of confusion for weighted mean offset; red cross (where applicable): multi-quarter PRF centroid offset with 1-sigma error bars in RA and Dec; cyan circle (where applicable): 3-sigma radius of confusion for multi-quarter PRF offset; red asterisk: location of target star; blue asterisk: location of other KIC objects in the neighborhood. KIC ID and magnitude are noted in the text associated with each marked object (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). A constant error term of 0.0667 arcseconds has been added in quadrature to the computed uncertainty in the RA and Dec components of the robust mean offset and the multi-quarter PRF offset.
Open `./planet-01/difference-image/010552263-01-difference-image-centroid-offsets.fig`

Multi-Quarter Average PRF Fit of the Difference Images

Mean offset from the PRF fit to the out of transit image

	RA	Dec	Units
Offset	$1.4687 \pm 1.37e+00$	$0.6098 \pm 9.21e-01$	arcseconds
Offset/σ	1.07	0.66	
Offset Distance	$1.5903 \pm 1.31e+00$		arcseconds
Offset Distance/σ	1.21		
3σ Radius	3.9321		arcseconds

Mean offset from the KIC RA and Dec

	RA	Dec	Units
Offset	$1.5747 \pm 1.31e+00$	$1.0133 \pm 8.73e-01$	arcseconds
Offset/σ	1.20	1.16	
Offset Distance	$1.8726 \pm 1.20e+00$		arcseconds
Offset Distance/σ	1.56		
3σ Radius	3.6041		arcseconds

Bootstrap Multi-Quarter PRF Fit of the Difference Images

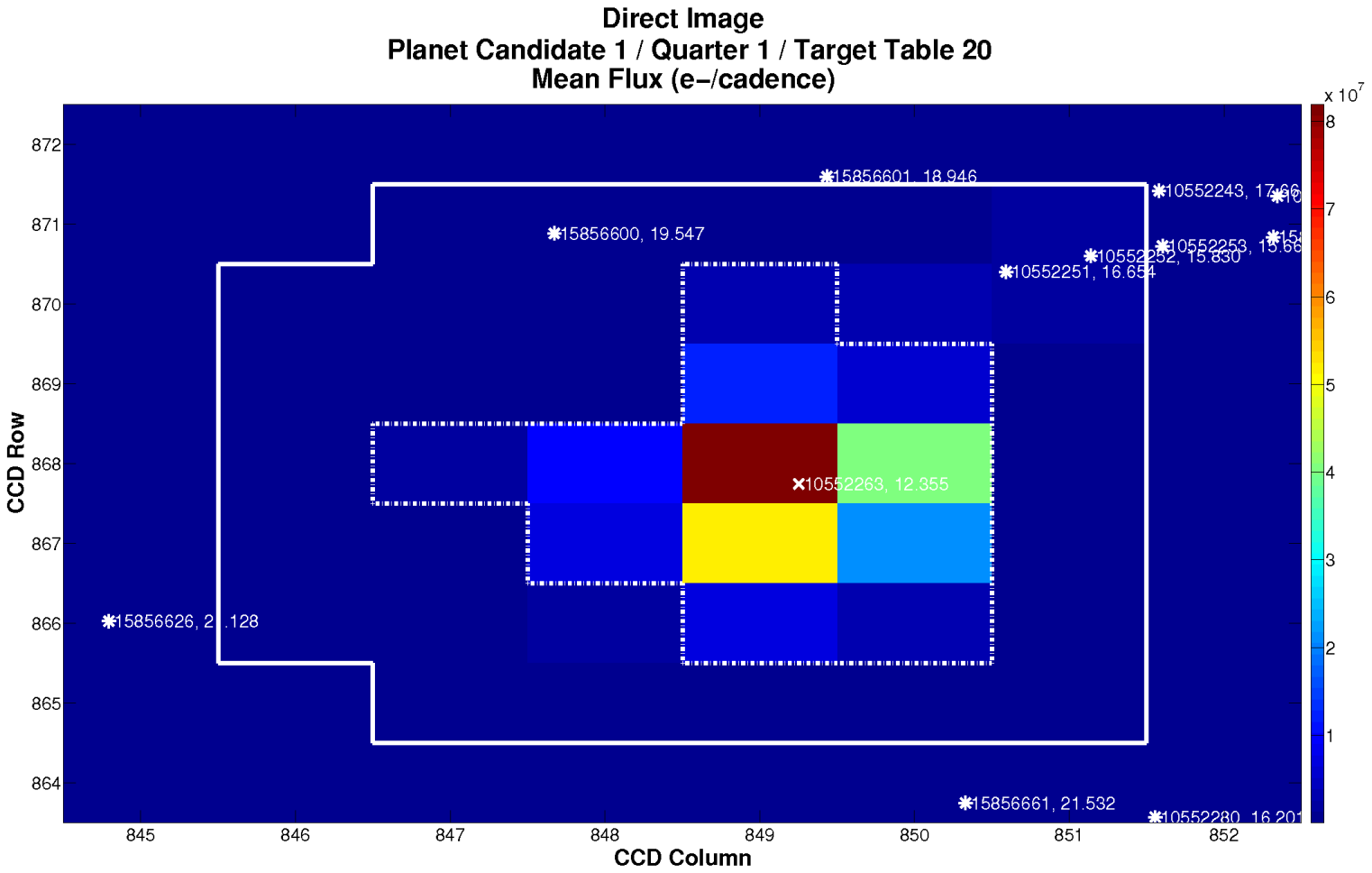
Bootstrap offset from the PRF fit to the out of transit image

	RA	Dec	Units
Out of Transit	$19.85800410 \pm 7.09e-07$	$47.77121515 \pm 1.01e-05$	hours/degrees
Difference Image	$19.85803003 \pm 1.67e-05$	$47.77183690 \pm 3.61e-04$	hours/degrees
Offset	$0.9410 \pm 6.24e-01$	$2.2383 \pm 1.29e+00$	arcseconds
Offset/σ	1.51	1.74	
Offset Distance	$2.4281 \pm 1.23e+00$		arcseconds
Offset Distance/σ	1.97		
3σ Radius	3.6889		arcseconds

Bootstrap offset from the KIC RA and Dec

	RA	Dec	Units
KIC Reference	$0.00000000 \pm -1.00e+00$	$0.00000000 \pm -1.00e+00$	hours/degrees
Difference Image	$19.85803003 \pm 1.67e-05$	$47.77183690 \pm 3.61e-04$	hours/degrees
Offset	$1.0426 \pm 6.10e-01$	$2.6888 \pm 1.30e+00$	arcseconds
Offset/σ	1.71	2.07	
Offset Distance	$2.8839 \pm 1.25e+00$		arcseconds
Offset Distance/σ	2.31		
3σ Radius	3.7505		arcseconds

Pixel correlation centroid offsets figure cannot be generated because there are no valid centroid offsets.



Direct image for target 10552263, planet candidate 1, quarter 1, target table 20. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-01-020.fig`

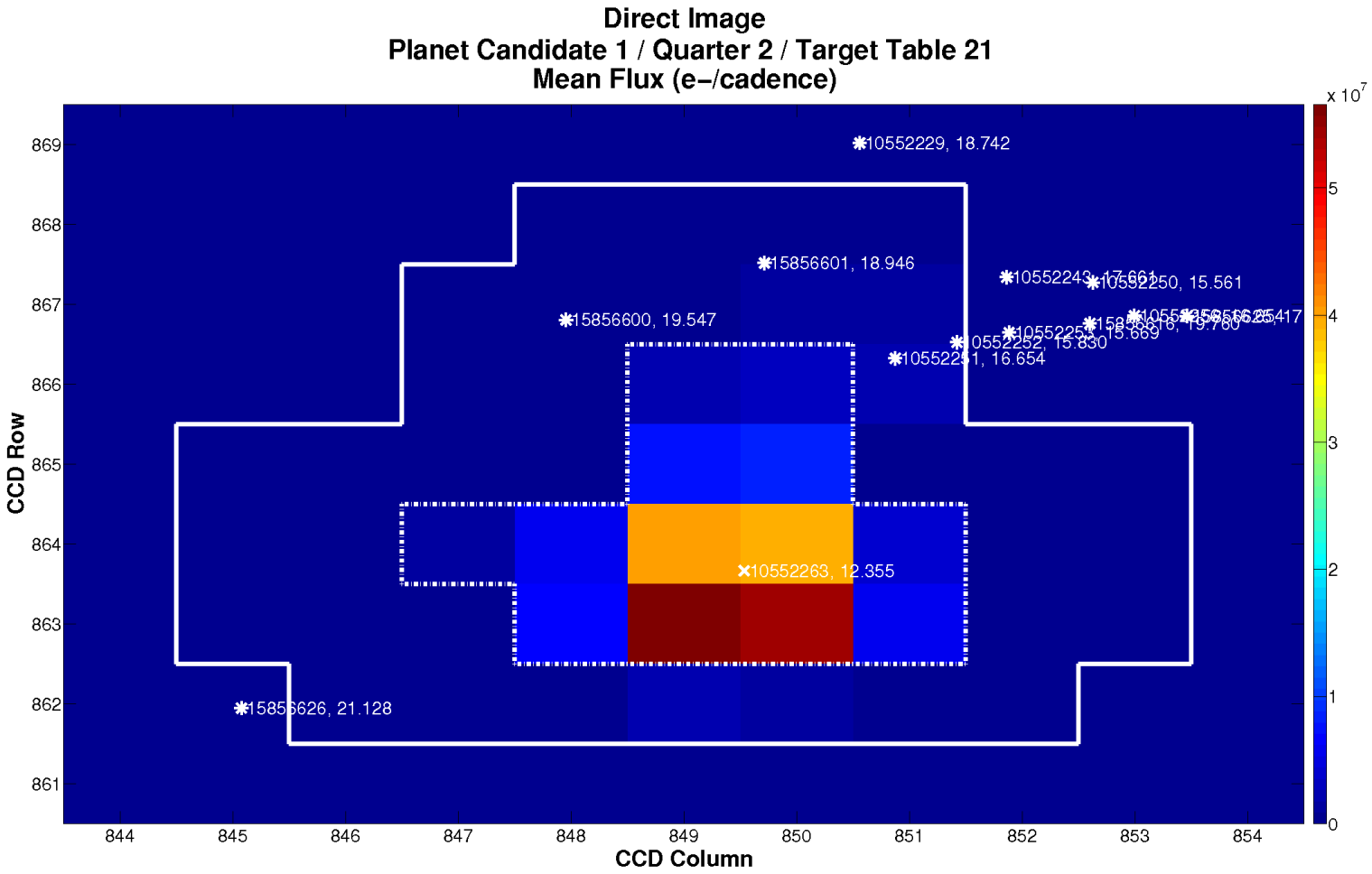
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 20.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 20.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 20.



Direct image for target 10552263, planet candidate 1, quarter 2, target table 21. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-02-021.fig`

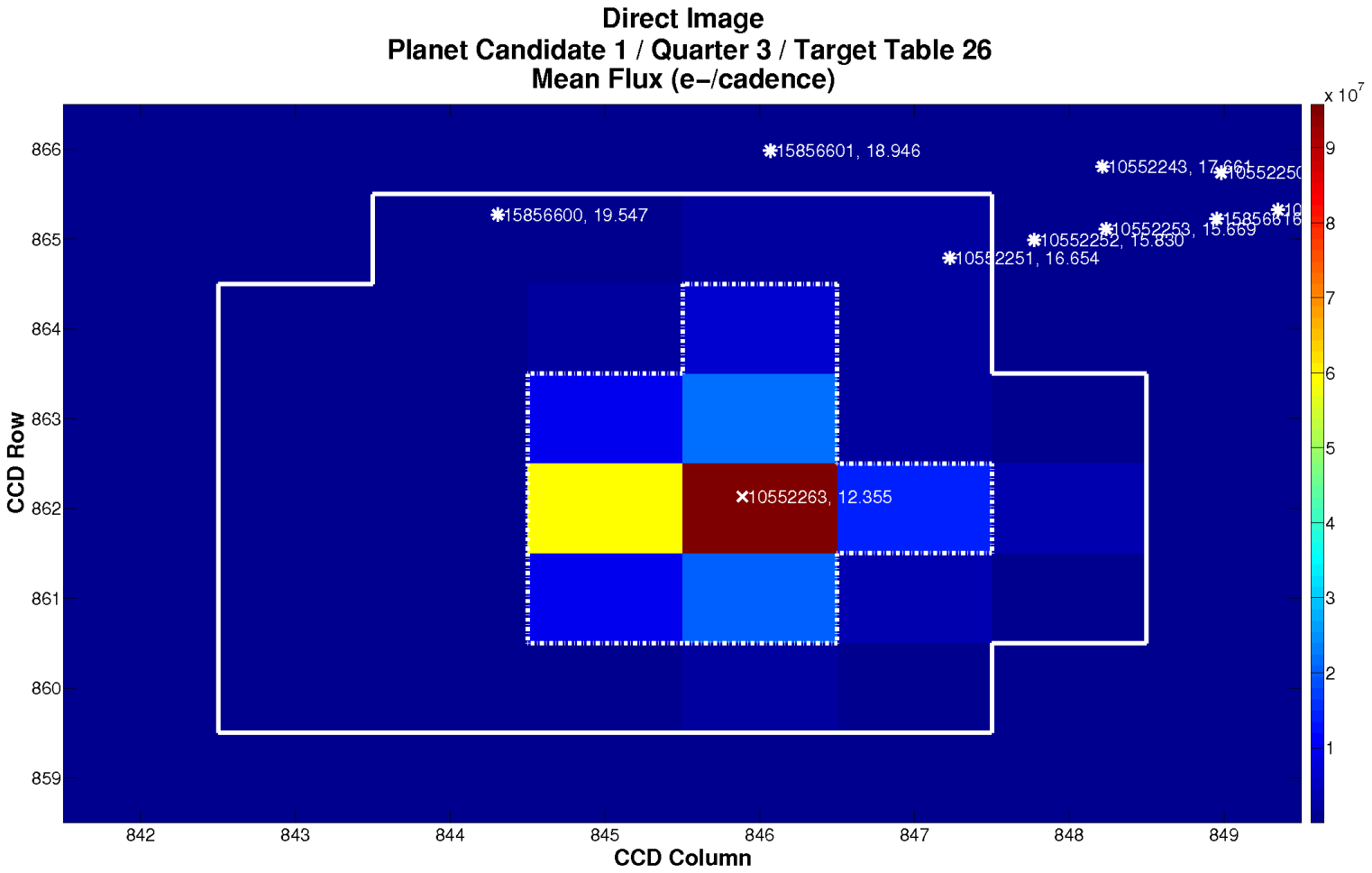
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 21.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 21.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 21.



Direct image for target 10552263, planet candidate 1, quarter 3, target table 26. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-03-026.fig`

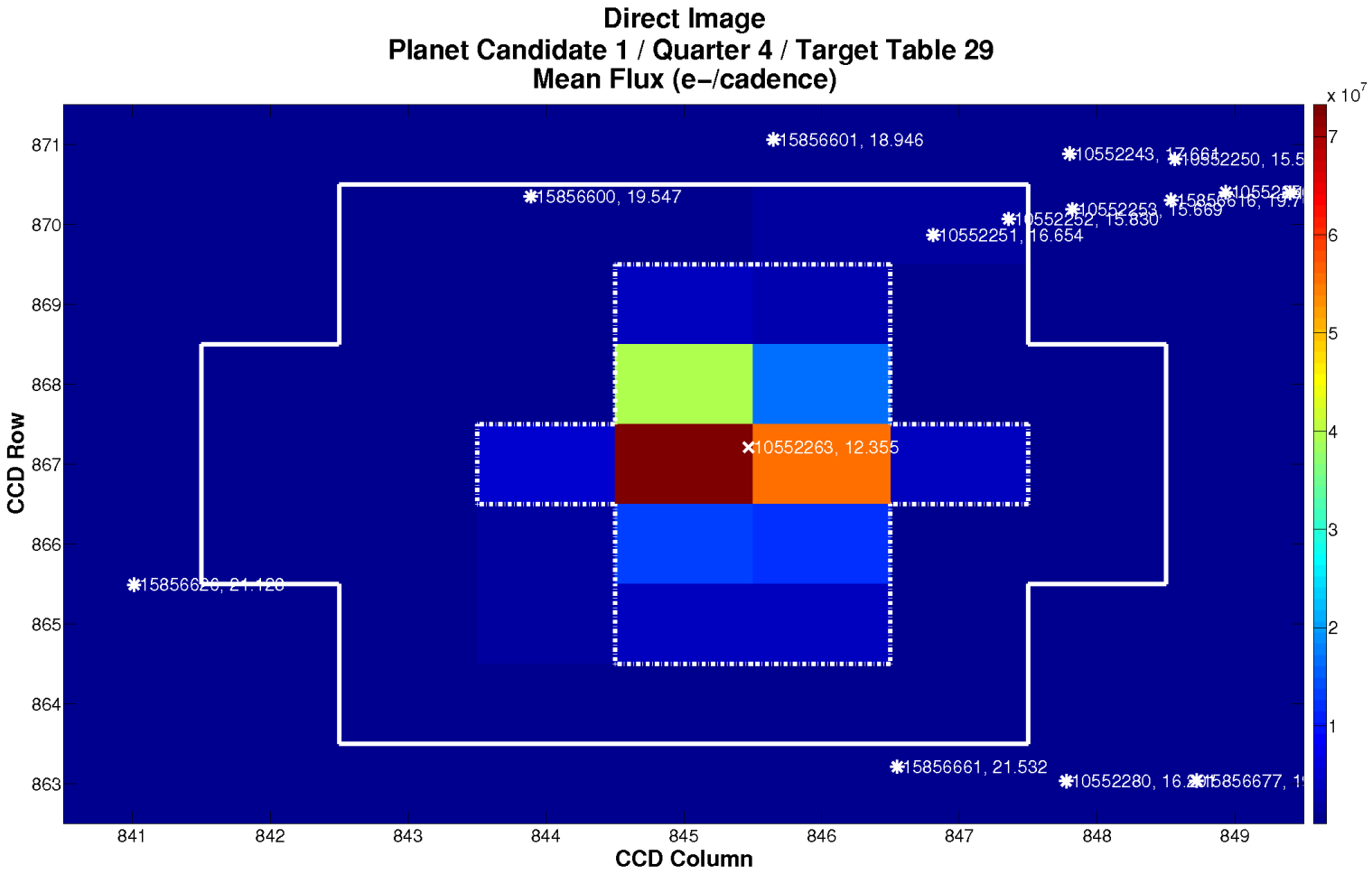
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 26.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 26.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 26.



Direct image for target 10552263, planet candidate 1, quarter 4, target table 29. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-04-029.fig`

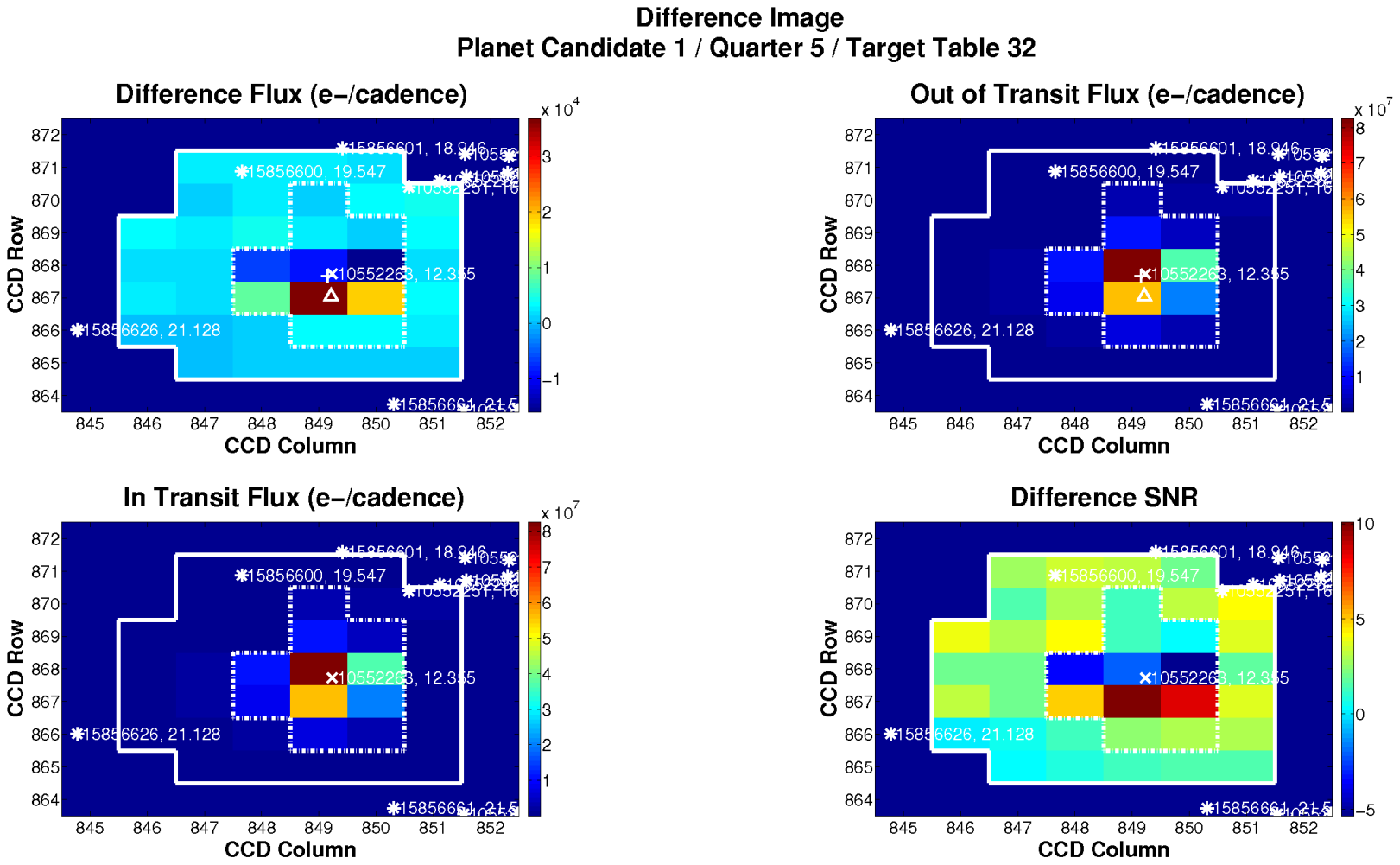
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 29.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 29.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 29.



Difference image for target 10552263, planet candidate 1, quarter 5, target table 32. Upper left: difference between mean flux out-of-transit and in-transit; upper right: mean out-of-transit flux; lower left: mean in-transit flux; lower right: difference between mean flux out-of-transit and in-transit after normalizing by the uncertainty in the difference for each pixel. The optimal aperture is outlined with a white dash-dotted line in each panel and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000); +: PRF-fit location of target from out-of-transit image; triangle: PRF-fit location of transit source from the difference image. CCD row and column coordinates are 0-based. Number of transits = 1; number of valid in-transit cadences = 7; number of in-transit cadence gaps = 0; number of valid out-of-transit cadences = 16; number of out-of-transit cadence gaps = 0. Difference image quality metric = 0.77 (good).
Open `./planet-01/difference-image/010552263-01-difference-image-05-032.fig`

The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 32.

PRF Fit of the Difference Image

Offset from the PRF fit to the out of transit image

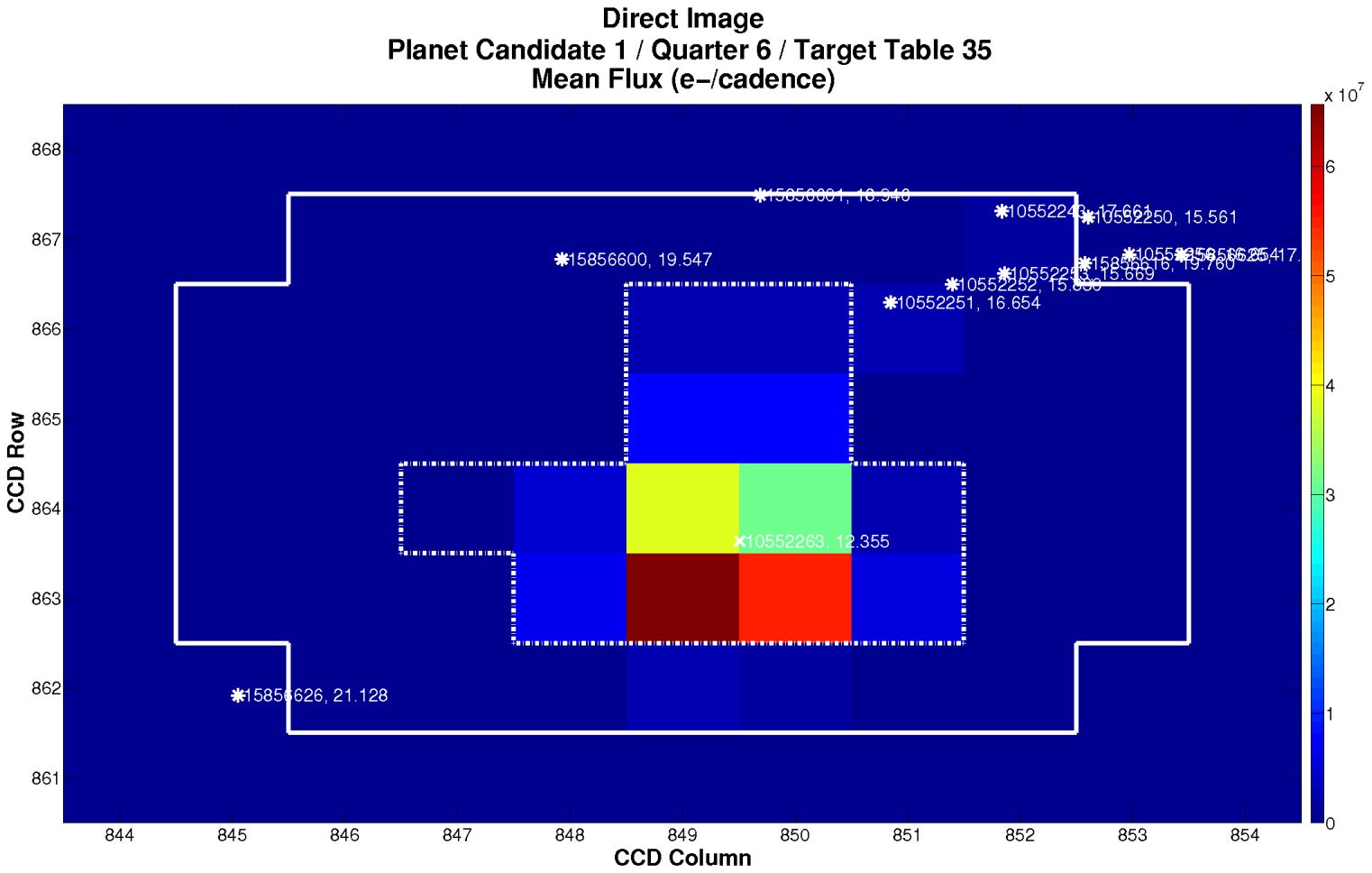
	Row	Column	Units	RA	Dec	Units
Out of Transit Image Centroid	$867.67 \pm 9.34e-06$	$849.16 \pm 9.19e-06$	pixels	$19.85800331 \pm 1.54e-09$	$47.77119694 \pm 1.42e-08$	hours/degrees
Difference Image Centroid	$867.04 \pm 7.97e-02$	$849.21 \pm 3.94e-02$	pixels	$19.85806715 \pm 7.98e-06$	$47.77146373 \pm 5.73e-05$	hours/degrees
Offset	$-0.6276 \pm 7.97e-02$	$0.0580 \pm 3.94e-02$	pixels	$2.3169 \pm 2.90e-01$	$0.9605 \pm 2.06e-01$	arcseconds
Offset/σ	-7.88	1.47		8.00	4.66	
Offset Distance	$0.6303 \pm 7.93e-02$		pixels	$2.5081 \pm 3.18e-01$		arcseconds
Offset Distance/σ	7.95			7.89		

Offset from the KIC RA and Dec converted to pixels via motion polynomials

	Row	Column	Units	RA	Dec	Units
KIC Reference Centroid	$867.73 \pm 1.03e-05$	$849.23 \pm 9.07e-06$	pixels	$19.85800130 \pm 0.00e+00$	$47.77109000 \pm 0.00e+00$	hours/degrees
Difference Image Centroid	$867.04 \pm 7.97e-02$	$849.21 \pm 3.94e-02$	pixels	$19.85806715 \pm 7.98e-06$	$47.77146373 \pm 5.73e-05$	hours/degrees
Offset	$-0.6890 \pm 7.97e-02$	$-0.0190 \pm 3.94e-02$	pixels	$2.3900 \pm 2.90e-01$	$1.3454 \pm 2.06e-01$	arcseconds
Offset/σ	-8.65	-0.48		8.25	6.52	
Offset Distance	$0.6893 \pm 7.97e-02$		pixels	$2.7427 \pm 3.19e-01$		arcseconds
Offset Distance/σ	8.65			8.59		

PRF Fit of the Pixel Correlation Image

```
The pixel correlation image centroid could not be calculated for target 10552263,
planet candidate 1, in target table 32.
```



Direct image for target 10552263, planet candidate 1, quarter 6, target table 35. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-06-035.fig`

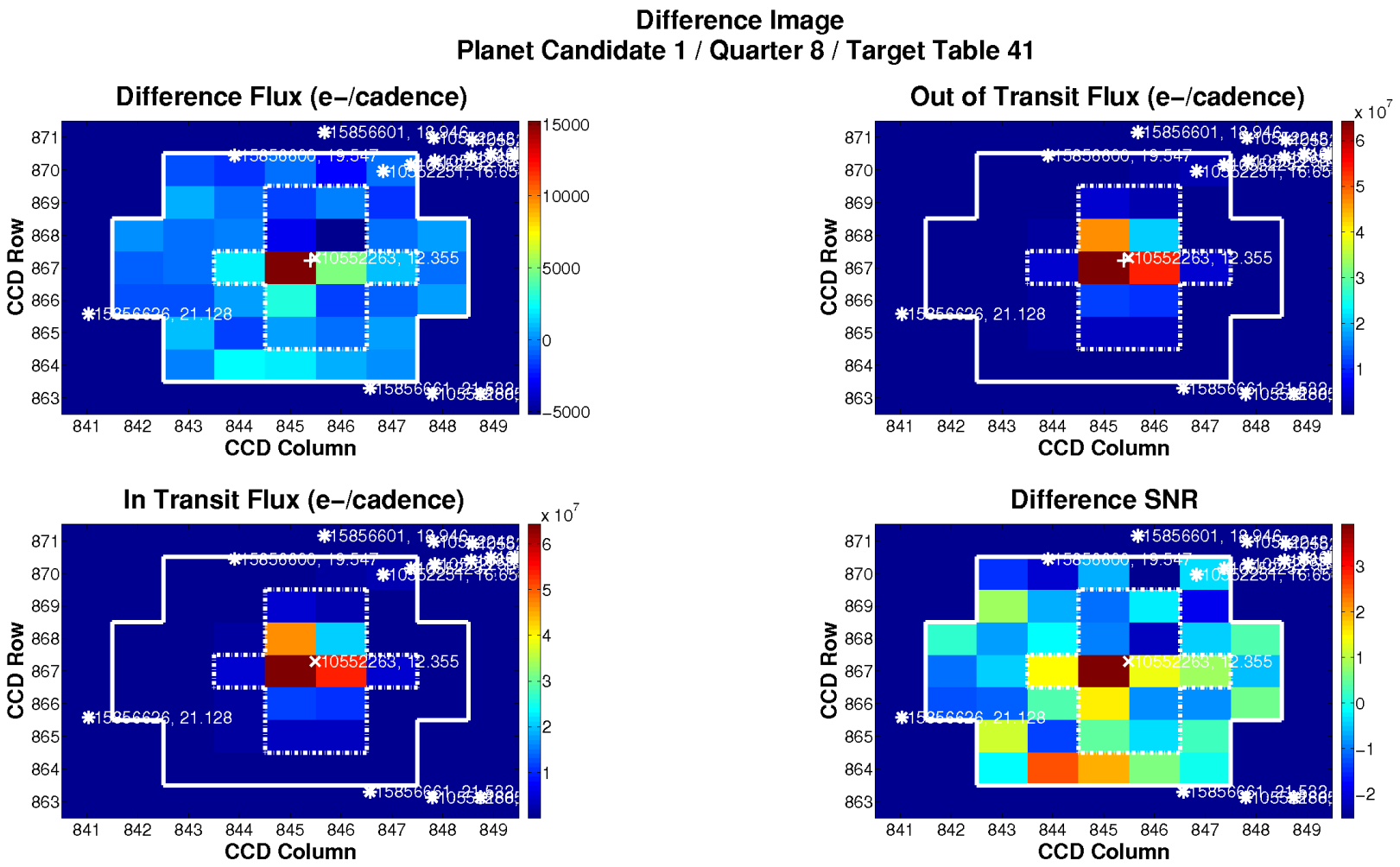
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 35.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 35.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 35.



Difference image for target 10552263, planet candidate 1, quarter 8, target table 41. Upper left: difference between mean flux out-of-transit and in-transit; upper right: mean out-of-transit flux; lower left: mean in-transit flux; lower right: difference between mean flux out-of-transit and in-transit after normalizing by the uncertainty in the difference for each pixel. The optimal aperture is outlined with a white dash-dotted line in each panel and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000); +: PRF-fit location of target from out-of-transit image; triangle: PRF-fit location of transit source from the difference image. CCD row and column coordinates are 0-based. Number of transits = 1; number of valid in-transit cadences = 7; number of in-transit cadence gaps = 0; number of valid out-of-transit cadences = 17; number of out-of-transit cadence gaps = 0. Difference image quality metric = N/A.

Open `./planet-01/difference-image/010552263-01-difference-image-08-041.fig`

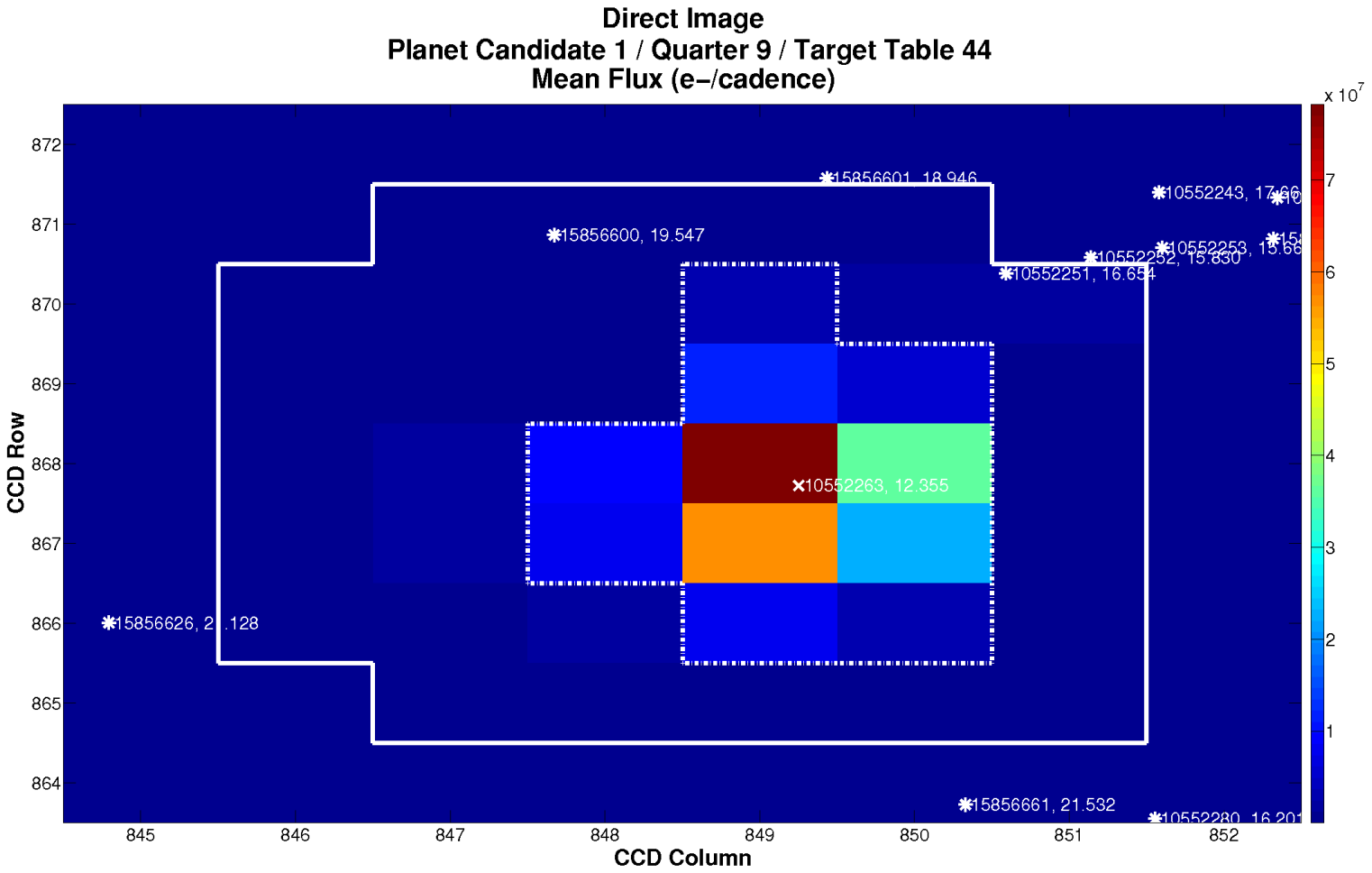
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 41.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 41.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 41.



Direct image for target 10552263, planet candidate 1, quarter 9, target table 44. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-09-044.fig`

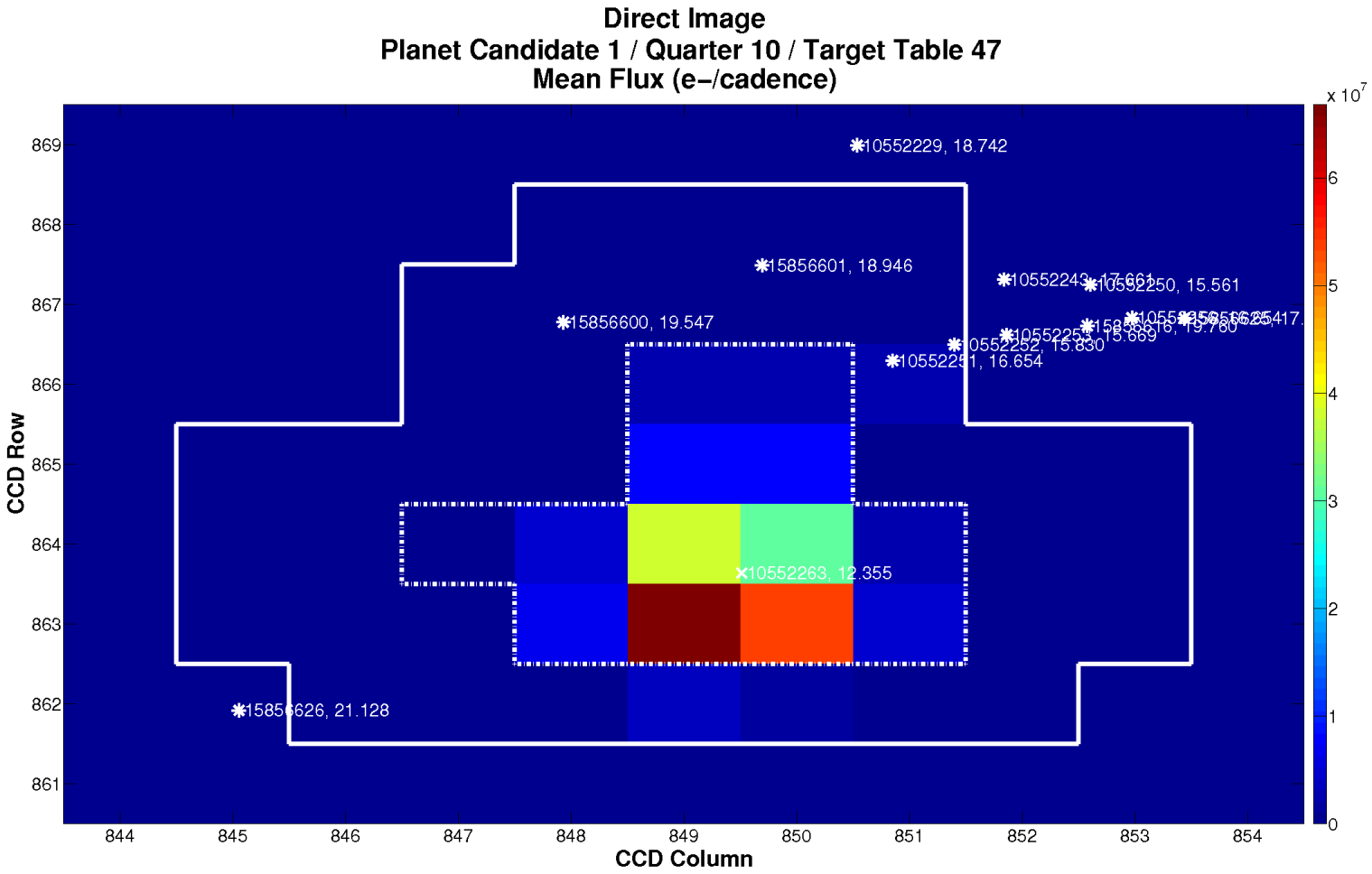
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 44.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 44.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 44.



Direct image for target 10552263, planet candidate 1, quarter 10, target table 47. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-10-047.fig`

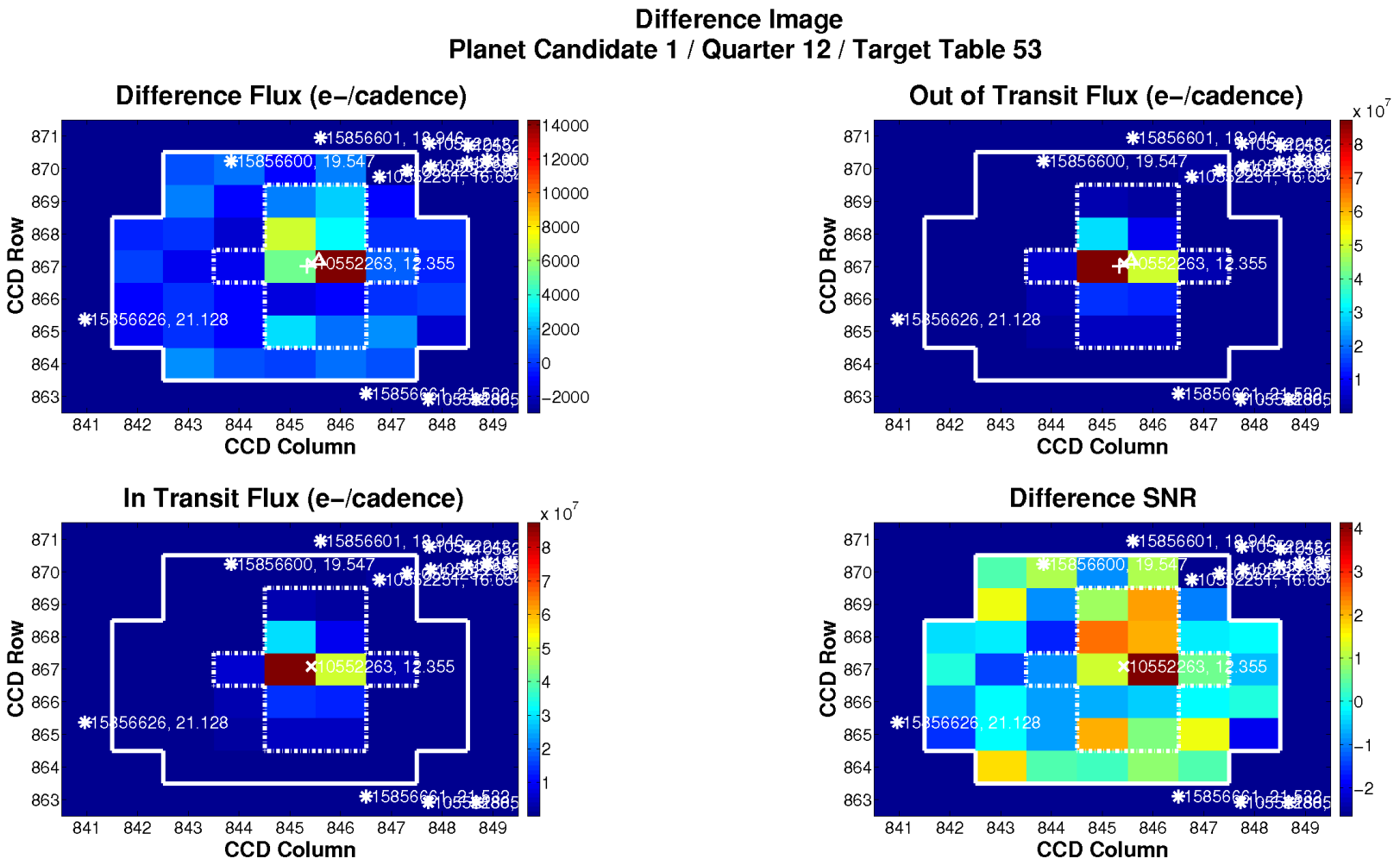
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 47.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 47.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 47.



Difference image for target 10552263, planet candidate 1, quarter 12, target table 53. Upper left: difference between mean flux out-of-transit and in-transit; upper right: mean out-of-transit flux; lower left: mean in-transit flux; lower right: difference between mean flux out-of-transit and in-transit after normalizing by the uncertainty in the difference for each pixel. The optimal aperture is outlined with a white dash-dotted line in each panel and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000); +: PRF-fit location of target from out-of-transit image; triangle: PRF-fit location of transit source from the difference image. CCD row and column coordinates are 0-based. Number of transits = 1; number of valid in-transit cadences = 7; number of in-transit cadence gaps = 0; number of valid out-of-transit cadences = 17; number of out-of-transit cadence gaps = 0. Difference image quality metric = 0.86 (good).
Open `./planet-01/difference-image/010552263-01-difference-image-12-053.fig`

The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 53.

PRF Fit of the Difference Image

Offset from the PRF fit to the out of transit image

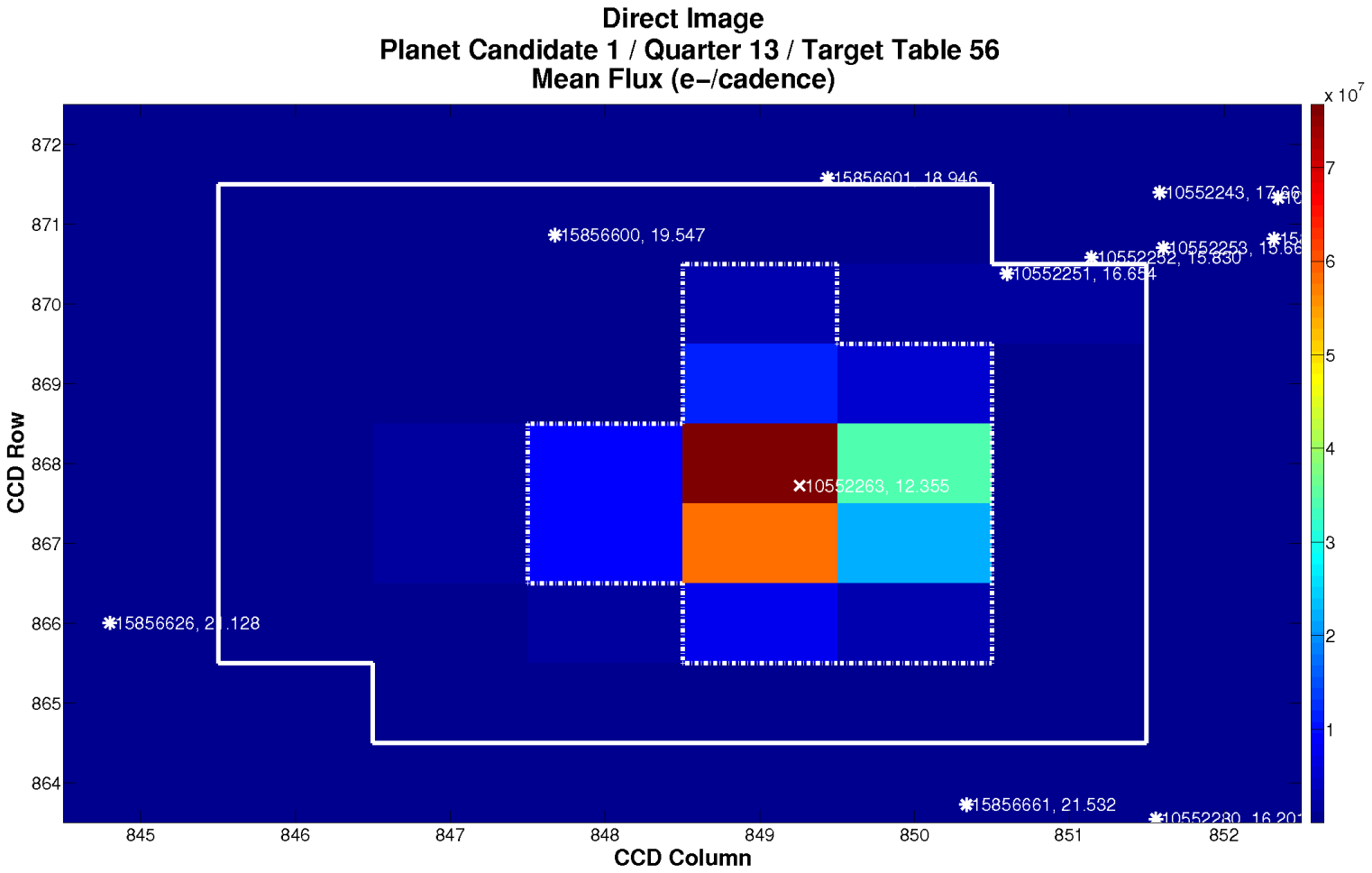
	Row	Column	Units	RA	Dec	Units
Out of Transit Image Centroid	$867.00 \pm 1.57e-05$	$845.33 \pm 9.78e-06$	pixels	$19.85800595 \pm 2.00e-09$	$47.77122795 \pm 1.91e-08$	hours/degrees
Difference Image Centroid	$867.16 \pm 1.10e-01$	$845.57 \pm 1.07e-01$	pixels	$19.85800209 \pm 1.10e-05$	$47.77090755 \pm 1.29e-04$	hours/degrees
Offset	$0.1663 \pm 1.10e-01$	$0.2400 \pm 1.07e-01$	pixels	$-0.1400 \pm 3.99e-01$	$-1.1534 \pm 4.63e-01$	arcseconds
Offset/σ	1.52	2.25		-0.35	-2.49	
Offset Distance	$0.2920 \pm 1.18e-01$		pixels	$1.1619 \pm 4.68e-01$		arcseconds
Offset Distance/σ	2.48			2.48		

Offset from the KIC RA and Dec converted to pixels via motion polynomials

	Row	Column	Units	RA	Dec	Units
KIC Reference Centroid	$867.09 \pm 1.18e-05$	$845.42 \pm 1.21e-05$	pixels	$19.85800130 \pm 0.00e+00$	$47.77109000 \pm 0.00e+00$	hours/degrees
Difference Image Centroid	$867.16 \pm 1.10e-01$	$845.57 \pm 1.07e-01$	pixels	$19.85800209 \pm 1.10e-05$	$47.77090755 \pm 1.29e-04$	hours/degrees
Offset	$0.0706 \pm 1.10e-01$	$0.1494 \pm 1.07e-01$	pixels	$0.0287 \pm 3.99e-01$	$-0.6568 \pm 4.63e-01$	arcseconds
Offset/σ	0.64	1.40		0.07	-1.42	
Offset Distance	$0.1653 \pm 1.16e-01$		pixels	$0.6574 \pm 4.60e-01$		arcseconds
Offset Distance/σ	1.43			1.43		

PRF Fit of the Pixel Correlation Image

```
The pixel correlation image centroid could not be calculated for target 10552263,
planet candidate 1, in target table 53.
```



Direct image for target 10552263, planet candidate 1, quarter 13, target table 56. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-13-056.fig`

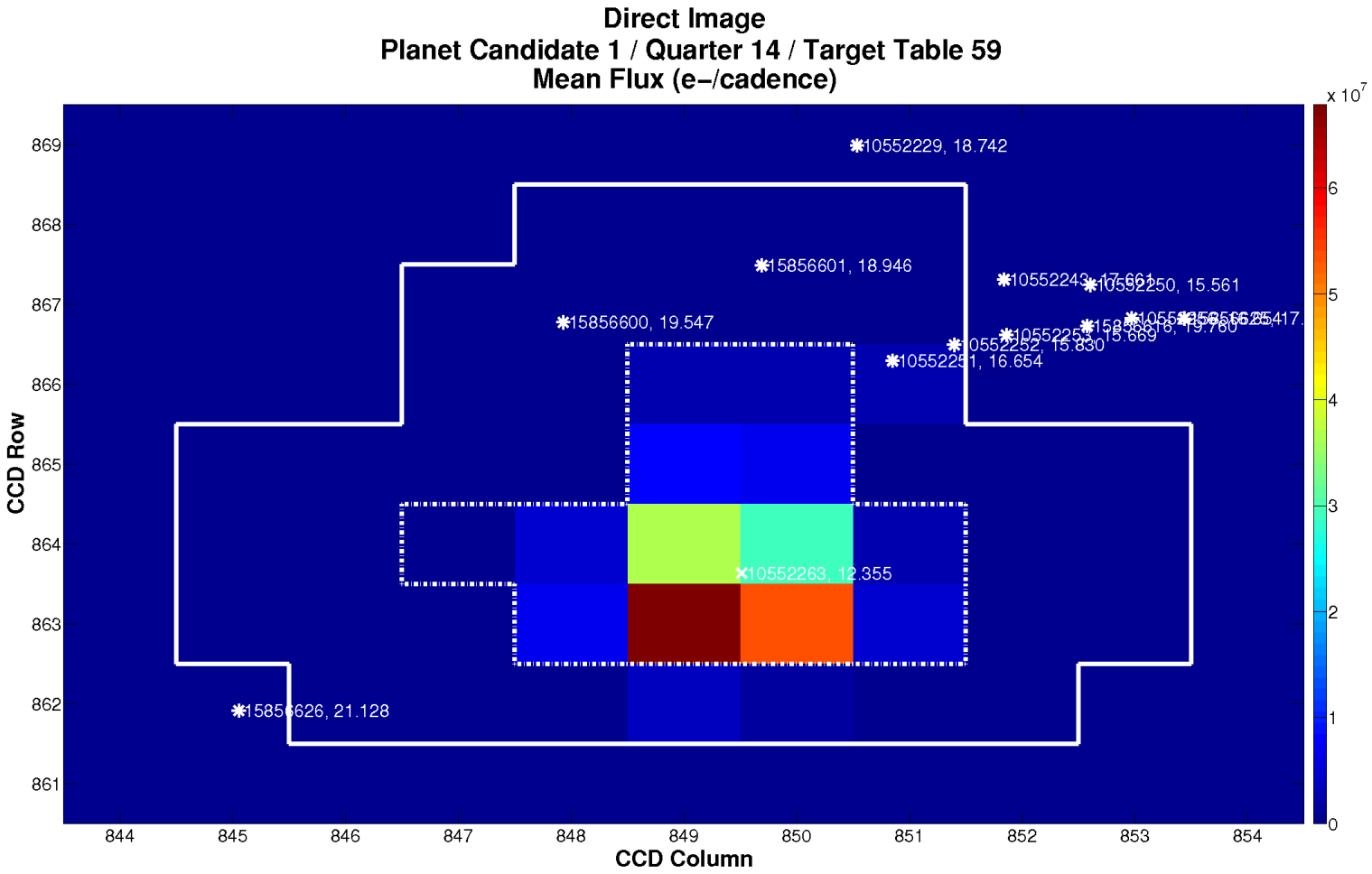
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 56.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 56.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 56.



Direct image for target 10552263, planet candidate 1, quarter 14, target table 59. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-14-059.fig`

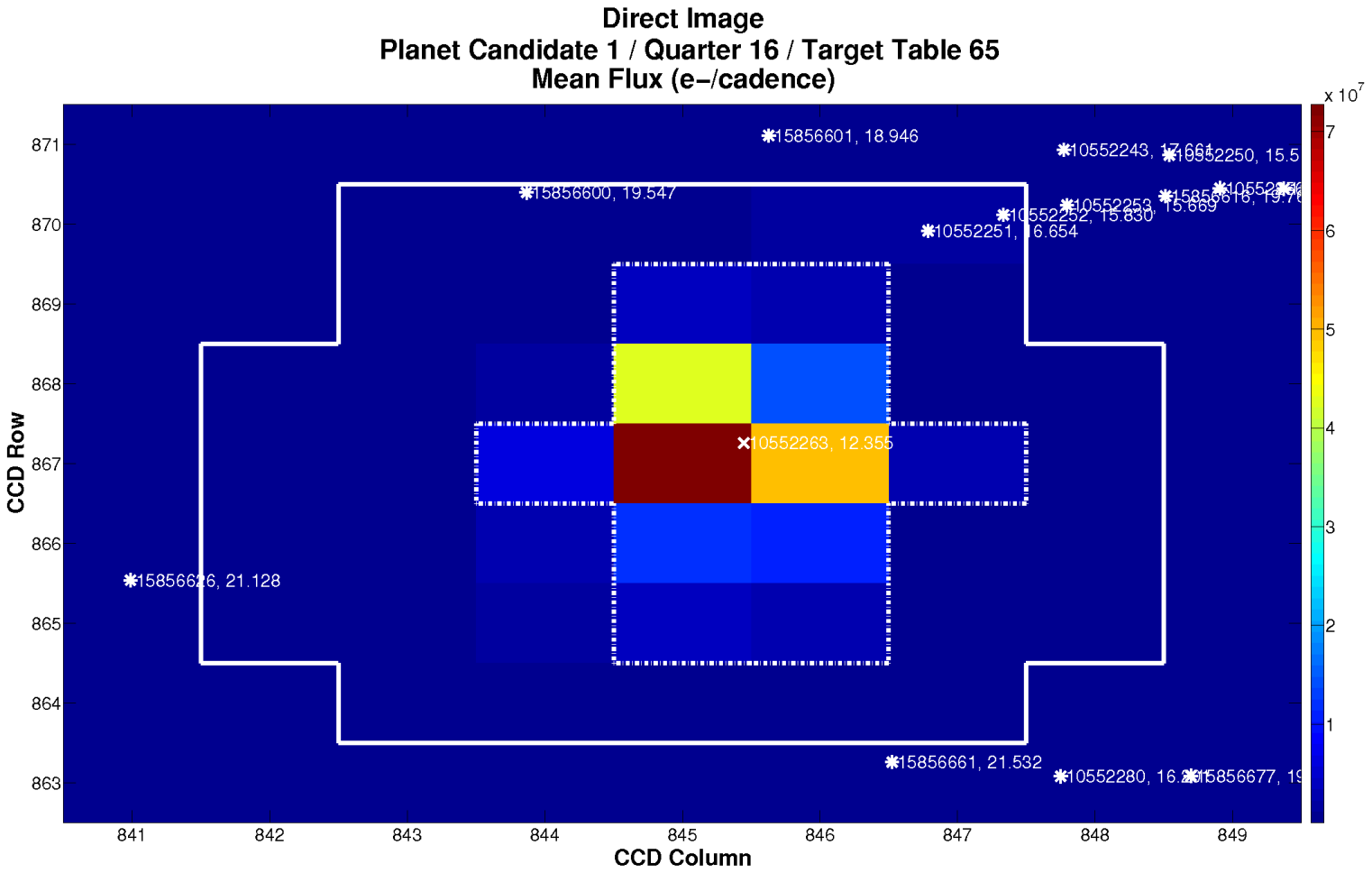
The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 59.

PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 59.

PRF Fit of the Pixel Correlation Image

The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 59.



Direct image for target 10552263, planet candidate 1, quarter 16, target table 65. A difference image cannot be generated because there were no transits for this planet candidate and target table. The mean flux over all cadences is shown in the figure. The optimal aperture is outlined with a white dash-dotted line and the target mask is outlined with a solid white line. Symbol key: x: target position from KIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby KIC objects converted to CCD coordinates via motion polynomials (objects in the UKIRT extension to the KIC have IDs between 15,000,000 and 30,000,000). CCD row and column coordinates are 0-based.
Open `./planet-01/difference-image/010552263-01-difference-image-16-065.fig`

The pixel correlation statistic plot is not available because either the fit for target 10552263, planet candidate 1 failed, or there were no observed transits for this candidate in target table 65.

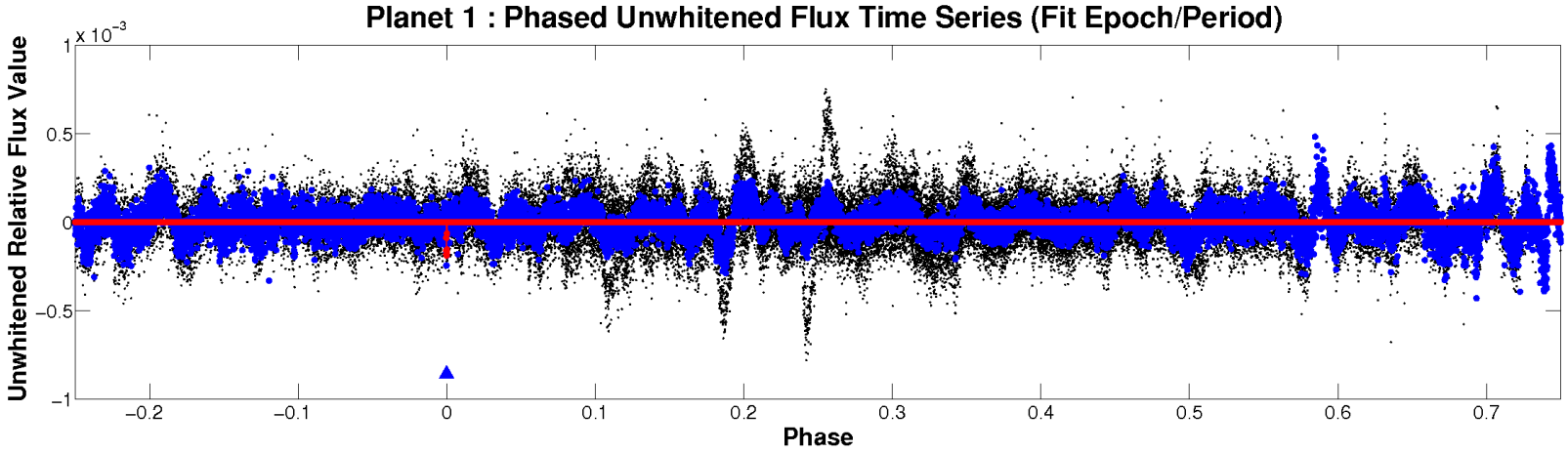
PRF Fit of the Difference Image

The out of transit image centroid and difference image centroid could not be calculated for target 10552263, planet candidate 1, in target table 65.

PRF Fit of the Pixel Correlation Image

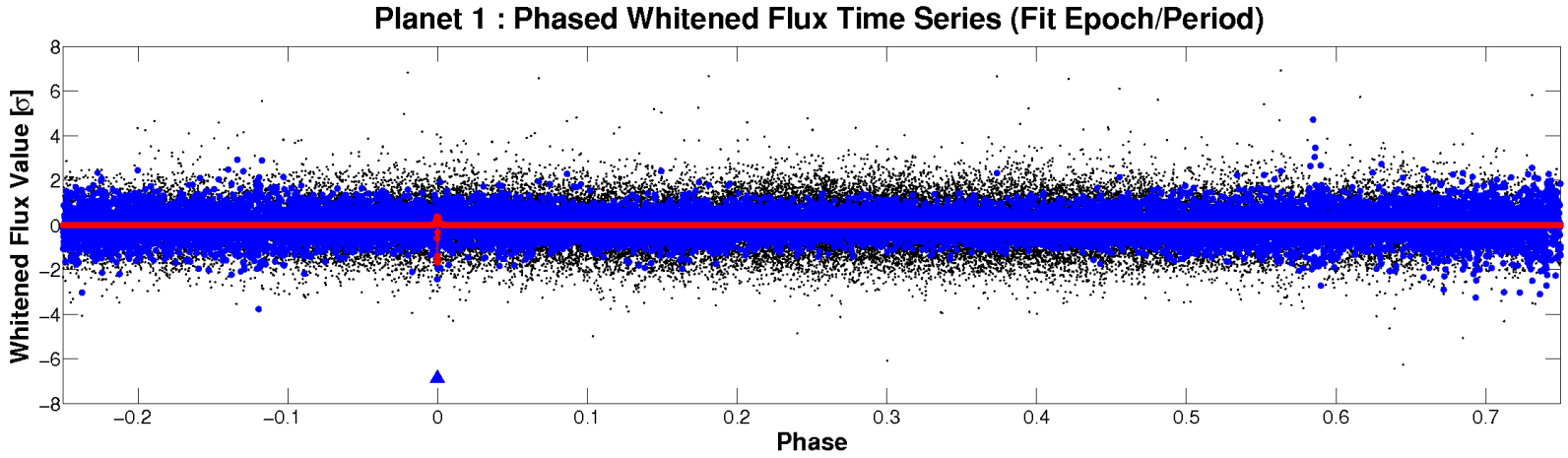
The pixel correlation image centroid could not be calculated for target 10552263, planet candidate 1, in target table 65.

7 Phased Light Curves



Phased unwhitened flux time series is plotted in black dots. When all transits fit completed with full or secondary convergence, the phase is determined with the fitted epoch and period; otherwise, the phase is determined with the TPS epoch and period. The values of the phased unwhitened flux time series averaged in one cadence wide bins are plotted in bigger blue dots. When all transits fit completes with full or secondary convergence, the averaged values of the phased unwhitened fitted model light curve are plotted in red dots. Transit event markers in different colors indicate the locations of the transits of all planet candidates. The transits of the same planet candidate are labeled with the markers of the same color, for example, blue markers for transits of plane candidate #1, red markers for transits of planet candidate #2, etc.

Open `./summary-plots/010552263-01-phased-unwhitened-flux-time-series.fig`



Phased whitened flux time series is plotted in black dots. When all transits fit completed with full or secondary convergence, the phase is determined with the fitted epoch and period; otherwise, the phase is determined with the TPS epoch and period. The values of the phased whitened flux time series averaged in one cadence wide bins are plotted in bigger blue dots. When all transits fit completes with full or secondary convergence, the averaged values of the phased whitened fitted model light curve are plotted in red dots. Transit event markers in different colors indicate the locations of the transits of all planet candidates. The transits of the same planet candidate are labeled with the markers of the same color, for example, blue markers for transits of plane candidate #1, red markers for transits of planet candidate #2, etc.
Open `./summary-plots/010552263-01-phased-whitened-flux-time-series.fig`

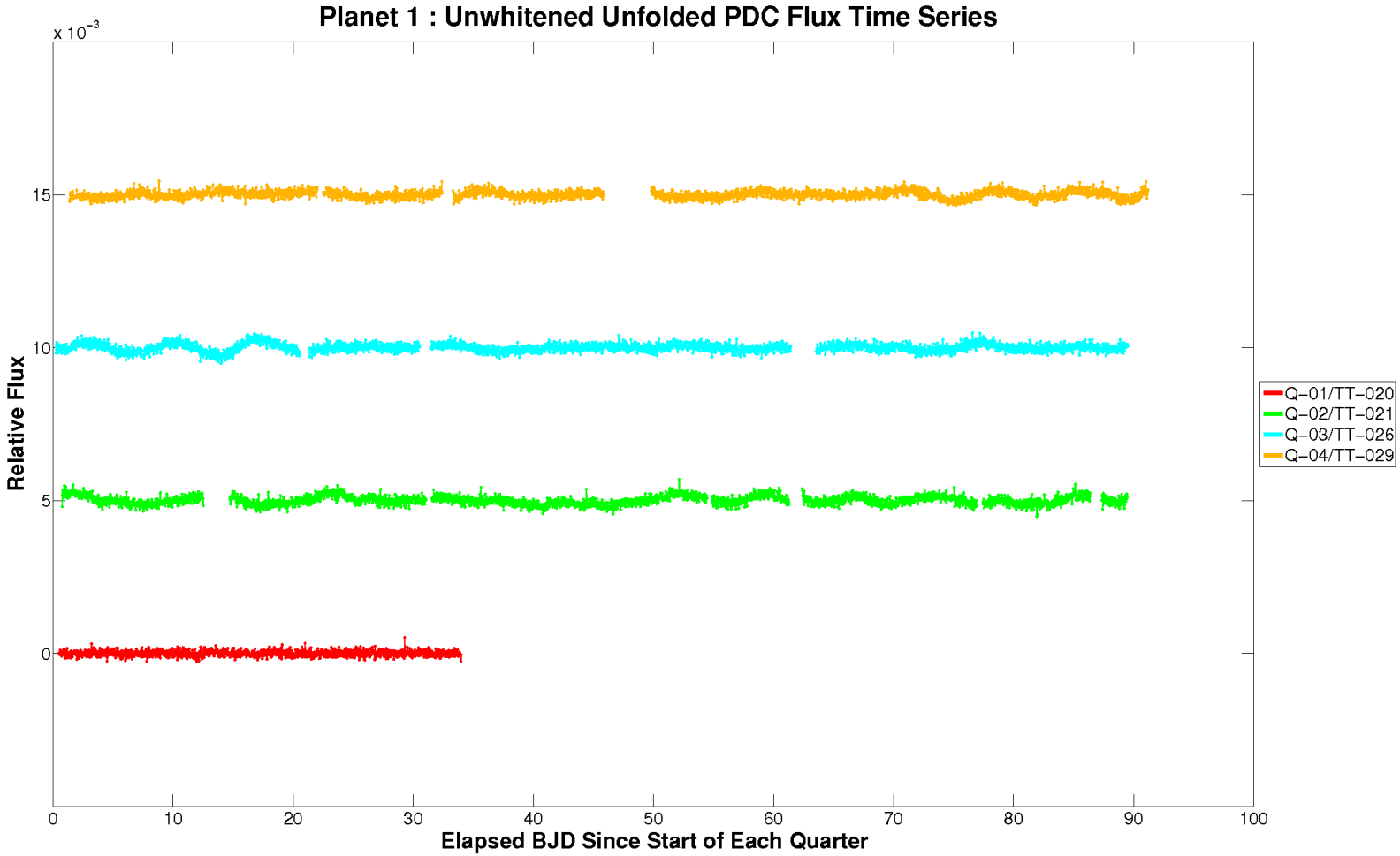
8 Planet Candidate 1

8.1 Model Fitter: All Transits

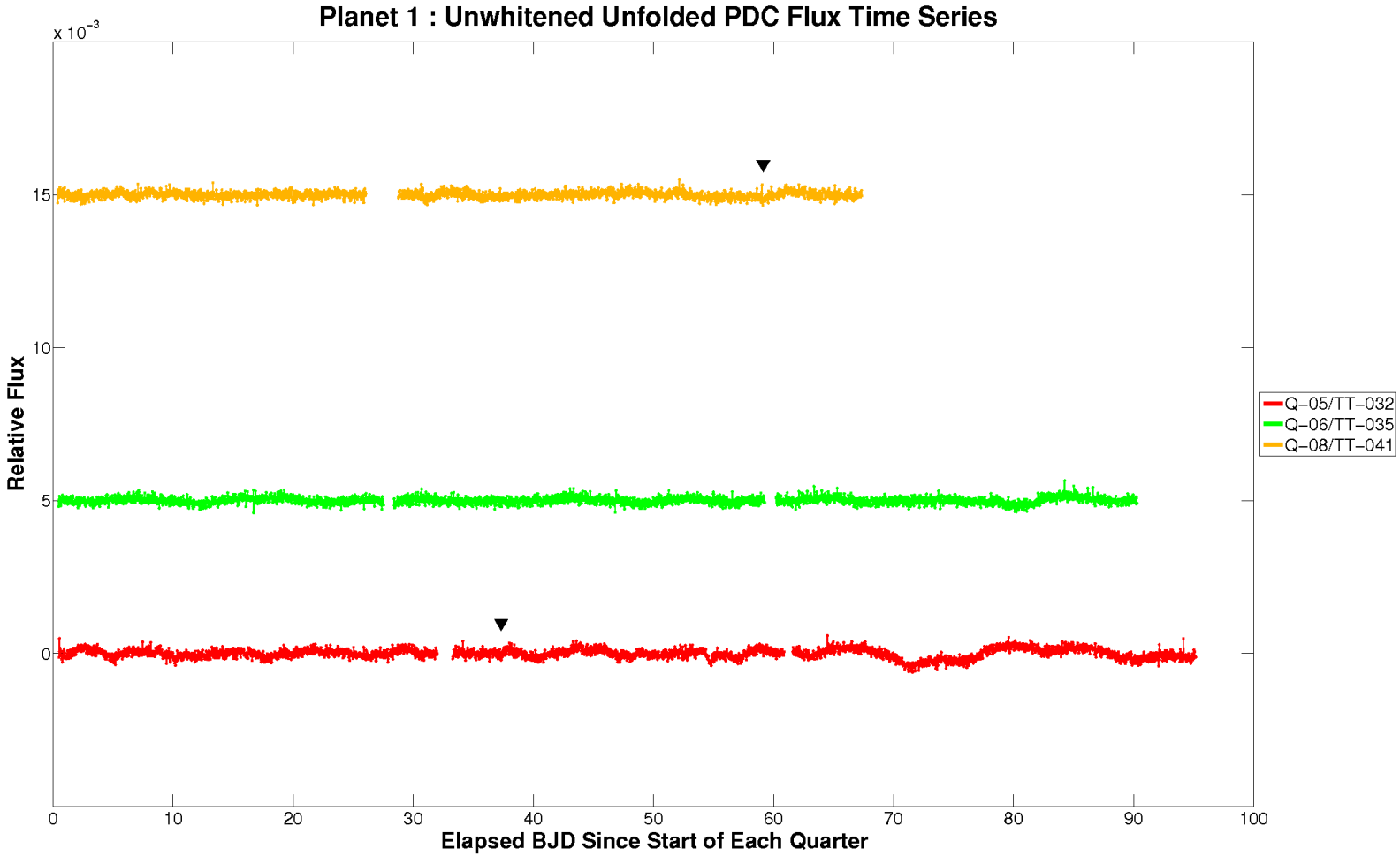
Model Characteristic	Name
Transit Model	mandel-agol_geometric_transit_model
Limb Darkening Model	claret_nonlinear_limb_darkening_model_2011

TCE Parameter	Value	Units
Trial Transit Pulse Duration	4.5000	hours
Transit Epoch	54999.0273730	MJD
Orbital Period	313.8124084	days
Maximum SES	5.2	
Maximum MES	7.1	
Robust Statistic	6.5	
Chi Square1 Statistic	39.9	
Chi Square1 Degrees of Freedom	42	
Chi Square2 Statistic	0.3	
Chi Square2 Degrees of Freedom	2	

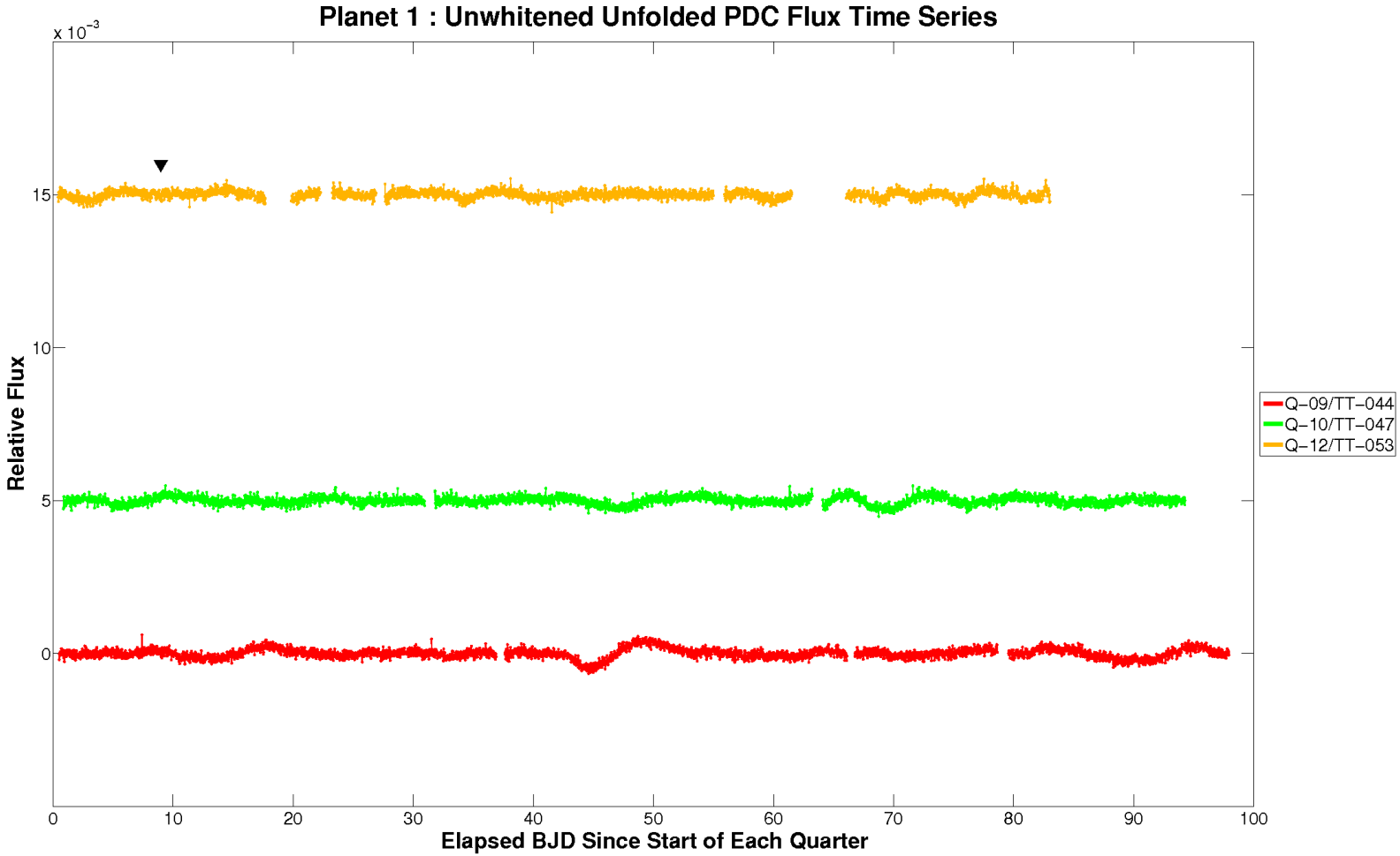
DV Fit Parameter	Value	Uncertainty	Units
SNR	7.6		
Model Chi Square	121		
Degrees of Freedom	112		
Transit Epoch	166.4971052	1.4342e-02	BKJD
Eccentricity	0.0000	0.0000e+00	
Peri Longitude	0.0000	0.0000e+00	degrees
Planet Radius	1.3309	3.4266e+00	Earth radii
Planet Radius to Star Radius Ratio	0.0125351	3.2272e-02	
Semi-major Axis	0.8979	1.1307e-05	AU
Semi-major Axis to Star Radius Ratio	591.1816	7.0749e+03	
Impact Parameter	0.1030	1.1580e+02	
Star Radius	0.9730	0.0000e+00	solar radii
Transit Duration	4.0849	1.0381e+00	hours
Transit Ingress Time	0.0511	1.3593e+00	hours
Transit Depth	189	2.9389e+01	ppm
Orbital Period	313.8261437	5.9280e-03	days
Equilibrium Temperature	272	7.3285e+01	Kelvin



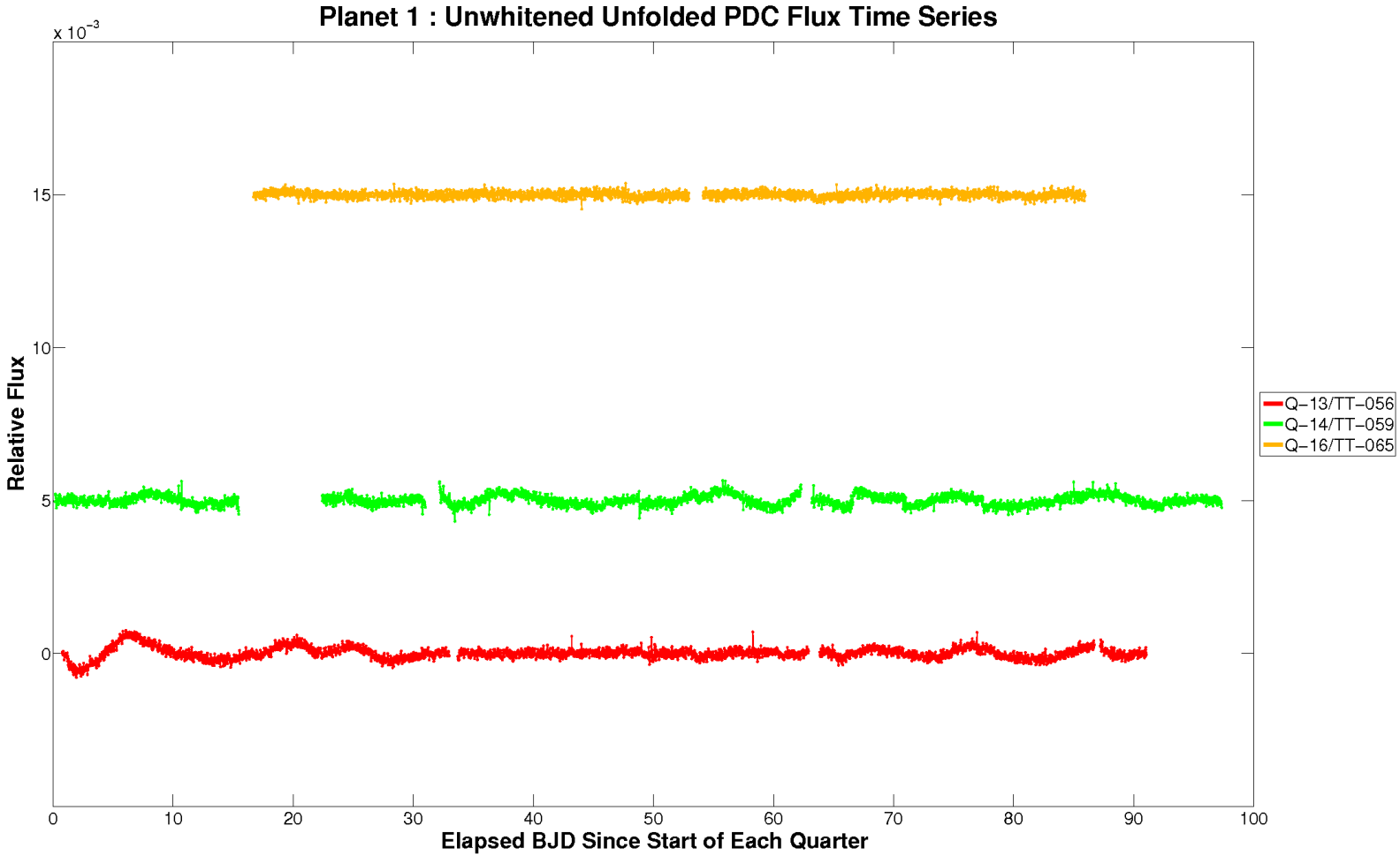
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-01/TargetTableId-020, start BJD is 2454964 and the vertical offset is 0. For the data of Quarter-02/TargetTableId-021, start BJD is 2455002 and the vertical offset is 0.005. For the data of Quarter-03/TargetTableId-026, start BJD is 2455093 and the vertical offset is 0.01. For the data of Quarter-04/TargetTableId-029, start BJD is 2455184 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. All transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-unwhitened-01-020.fig`



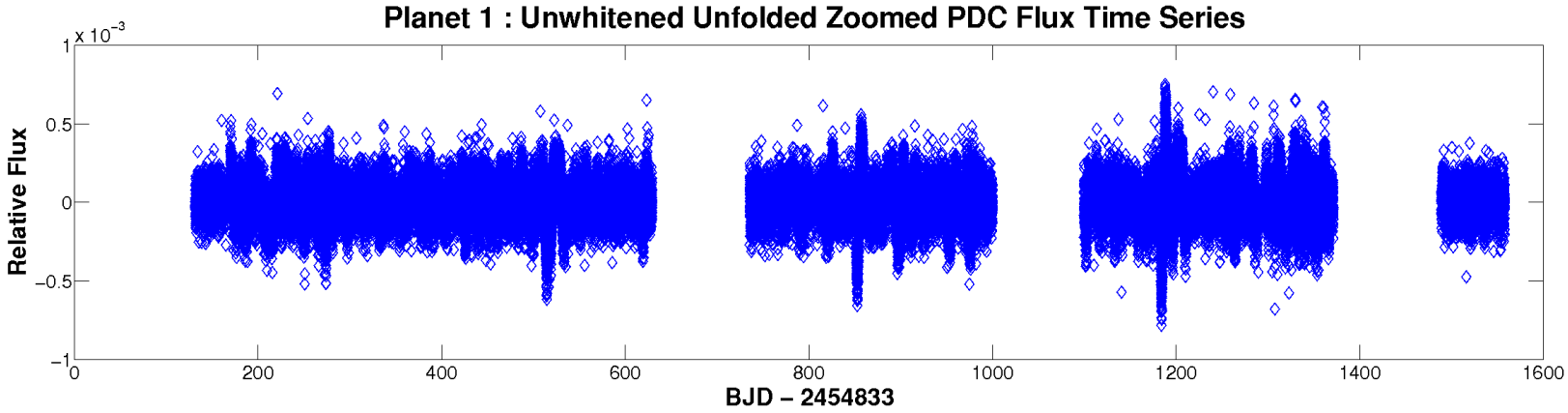
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-05/TargetTableId-032, start BJD is 2455276 and the vertical offset is 0. For the data of Quarter-06/TargetTableId-035, start BJD is 2455372 and the vertical offset is 0.005. For the data of Quarter-07/TargetTableId-038, start BJD is 2455463 and the vertical offset is 0.01. For the data of Quarter-08/TargetTableId-041, start BJD is 2455568 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. All transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-unwhitened-05-032.fig`



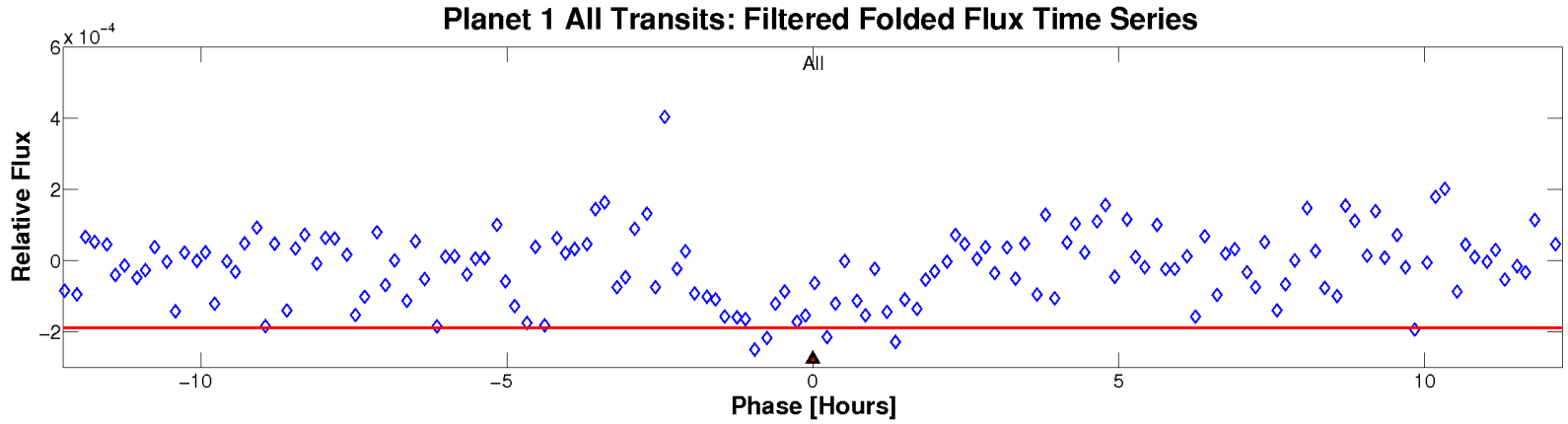
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-09/TargetTableId-044, start BJD is 2455641 and the vertical offset is 0. For the data of Quarter-10/TargetTableId-047, start BJD is 2455739 and the vertical offset is 0.005. For the data of Quarter-11/TargetTableId-050, start BJD is 2455834 and the vertical offset is 0.01. For the data of Quarter-12/TargetTableId-053, start BJD is 2455932 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. All transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-unwhitened-09-044.fig`



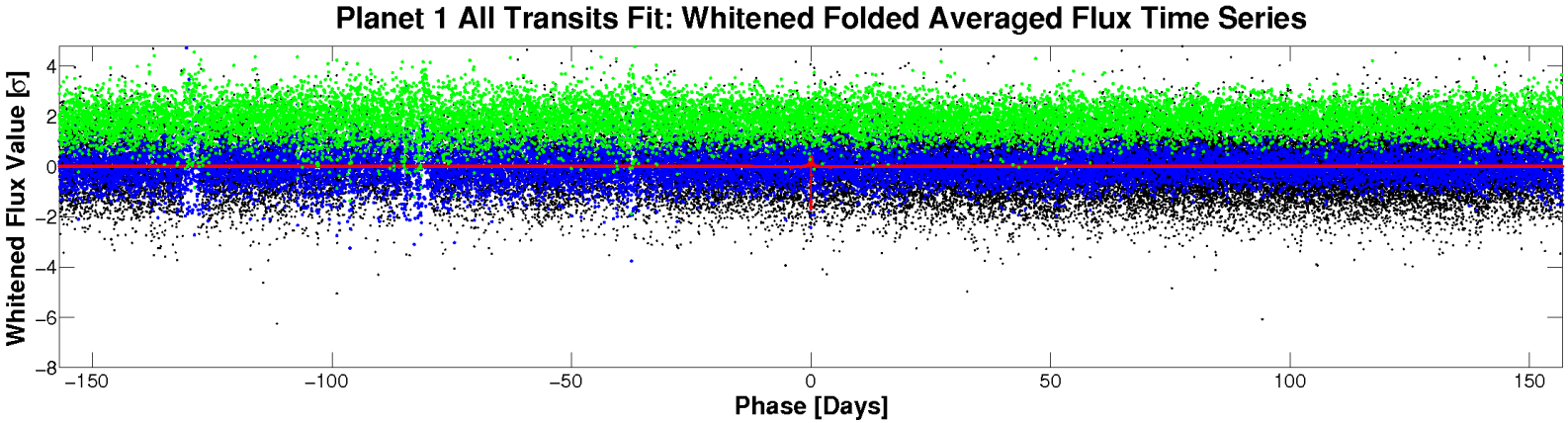
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-13/TargetTableId-056, start BJD is 2456015 and the vertical offset is 0. For the data of Quarter-14/TargetTableId-059, start BJD is 2456107 and the vertical offset is 0.005. For the data of Quarter-15/TargetTableId-062, start BJD is 2456206 and the vertical offset is 0.01. For the data of Quarter-16/TargetTableId-065, start BJD is 2456305 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. All transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-unwhitened-13-056.fig`



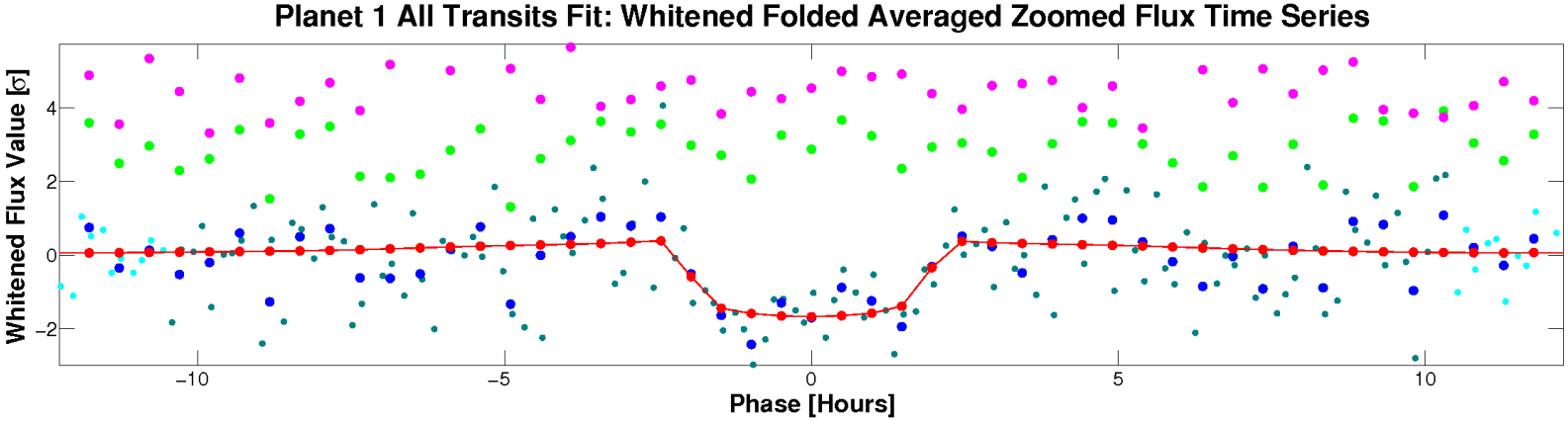
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain, zoomed on last 5 transits in the unit of work. If # of transits is smaller than 5, all transits are shown.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-unwhitened-zoomed.fig`



PDC Flux time series of all transits for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. Data has been high-pass filtered via a median filter operating at a specified multiple of the transit duration, folded per the fitted period and epoch, and zoomed to the location of the model transit.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-unwhitened-filtered-zoomed.fig`



Folded flux time series for KeplerId 10552263, Planet candidate 1 in the whitened domain is plotted in black dots. Values are averaged into 1 cadence wide bins. The blue dots represent the averaged values of the folded flux time series; the red dots represent the averaged values of the folded model light curve of the all transits fit; the green dots are the averaged folded fit residuals, vertically offset for clarity. All transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-whitened.fig`

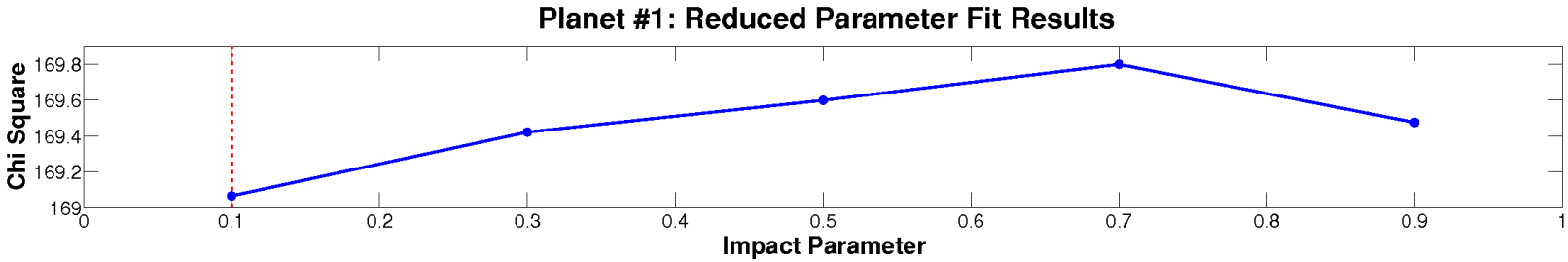


Folded flux time series for KeplerId 10552263, Planet candidate 1 in the whitened domain, zoomed on the transit. The flux data whose robust weights are larger/smaller than 0.1 are plotted in dark green/cyan dots, respectively. Values are averaged into 1 cadence wide bins. The blue dots represent the averaged values of the folded flux time series; the red dots represent the averaged values of the fitted model light curve of the all transits fit; the green dots are the averaged folded fit residuals, vertically offset for clarity. Magenta dots are the averaged values of the folded flux time series, with a phase shift of 0.5 relative to the blue dots, vertically offset for clarity. All transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-whitened-zoomed.fig`

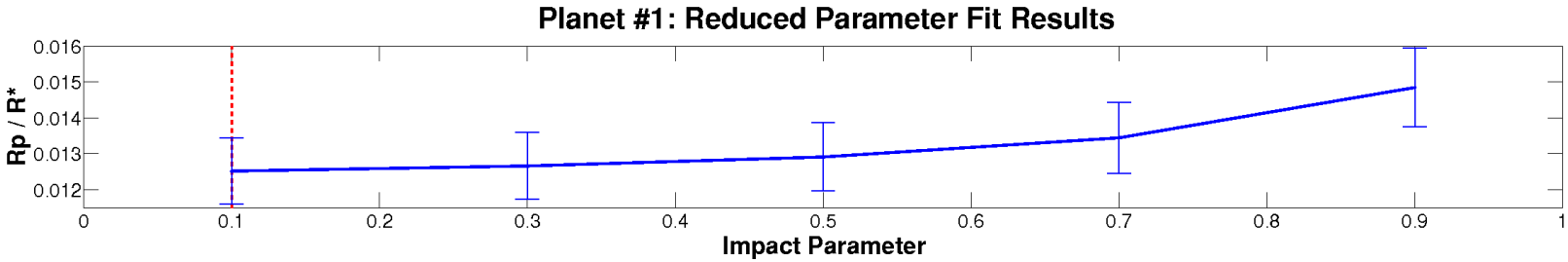
8.2 Model Fitter: Reduced Parameter Fit Results

Impact Parameter	SNR	Model Chi Square	Planet Radius to Star Radius	Uncert	Semi-major Axis to Star Radius	Uncert	Transit Depth (ppm)	Uncert	Transit Duration (hours)	Uncert
0.10	7.8	169.1	0.0125209	9.1615e-04	590.8257	4.0487e+01	188	2.7595e+01	4.0885	2.7967e-01
0.30	7.7	169.4	0.0126637	9.2922e-04	576.1063	4.1781e+01	189	2.7804e+01	4.0250	2.9130e-01
0.50	7.7	169.6	0.0129142	9.5095e-04	522.5603	3.7543e+01	189	2.7829e+01	4.0415	2.8970e-01
0.70	7.7	169.8	0.0134486	9.8933e-04	428.9467	3.1409e+01	189	2.7775e+01	4.0961	2.9891e-01
0.90	7.7	169.5	0.0148513	1.0998e-03	262.7874	2.0266e+01	188	2.7802e+01	4.2784	3.2697e-01

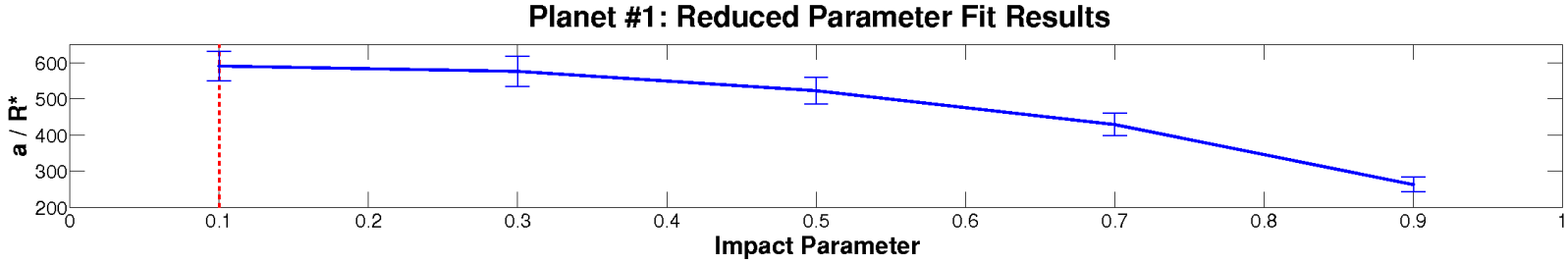
Highlighted row is used to seed all transits fit with all parameters.



Model chi squares of reduced parameter fits vs. impact parameter for KeplerId 10552263, Planet candidate 1. The fit result with the minimum chi square is marked with a dashed line in the plot and set as the seed for the all transits fit with all model parameters.
Open `./planet-01/planet-search-and-model-fitting-results/reduced-parameter-fits/010552263-01-reduced-fits-chi-square.fig`



Ratios of planet radius to star radius of reduced parameter fits vs. impact parameter for KeplerId 10552263, Planet candidate 1. The fit result with the minimum chi square is marked with a dashed line in the plot and set as the seed for the all transits fit with all model parameters.
Open `./planet-01/planet-search-and-model-fitting-results/reduced-parameter-fits/010552263-01-reduced-fits-rp-over-rstar.fig`



Ratios of semimajor axis to star radius of reduced parameter fits vs. impact parameter for KeplerId 10552263, Planet candidate 1. The fit result with the minimum chi square is marked with a dashed line in the plot and set as the seed for the all transits fit with all model parameters.
Open `./planet-01/planet-search-and-model-fitting-results/reduced-parameter-fits/010552263-01-reduced-fits-a-over-rstar.fig`

8.3 Validation Tests

The Centroid Test and Eclipsing Binary Discrimination Test are chi-squared hypothesis tests. For these tests, a significance of 100% favors a planet, while 0% indicates an unlikely planet.

8.3.1 Weak Secondary Test

Period (days)	Duration (hours)	Max MES	Sec Phase (days)	Sec MES	Min Phase (days)	Min MES	MAD
313.8124	4.5	7.1194	-23.5531	4.3381	-28.4981	-3.5526	0.68632

8.3.2 Flux-Weighted Centroid Test

Result	Value	Uncertainty	Units	Value in Sigmas	Significance (%)
Stellar Magnitude	12.3550				
Motion Detection Statistic	4.0511e+00				13.19
Peak RA Offset	-1.0810e-04	3.9549e-04	arcseconds	-0.2733	
Peak Dec Offset	3.3914e-04	3.1409e-04	arcseconds	1.0798	
Peak Offset Distance	3.5595e-04	3.2246e-04	arcseconds	1.1039	
Source RA Offset	6.5726e-01	2.0924e+00	arcseconds	0.3141	
Source Dec Offset	-1.4427e+00	1.6593e+00	arcseconds	-0.8695	
Source Offset Distance	1.5853e+00	1.7414e+00	arcseconds	0.9104	
Source RA	19.85801941	5.7652e-05	hours		
Source Dec	47.77068925	4.6092e-04	degrees		

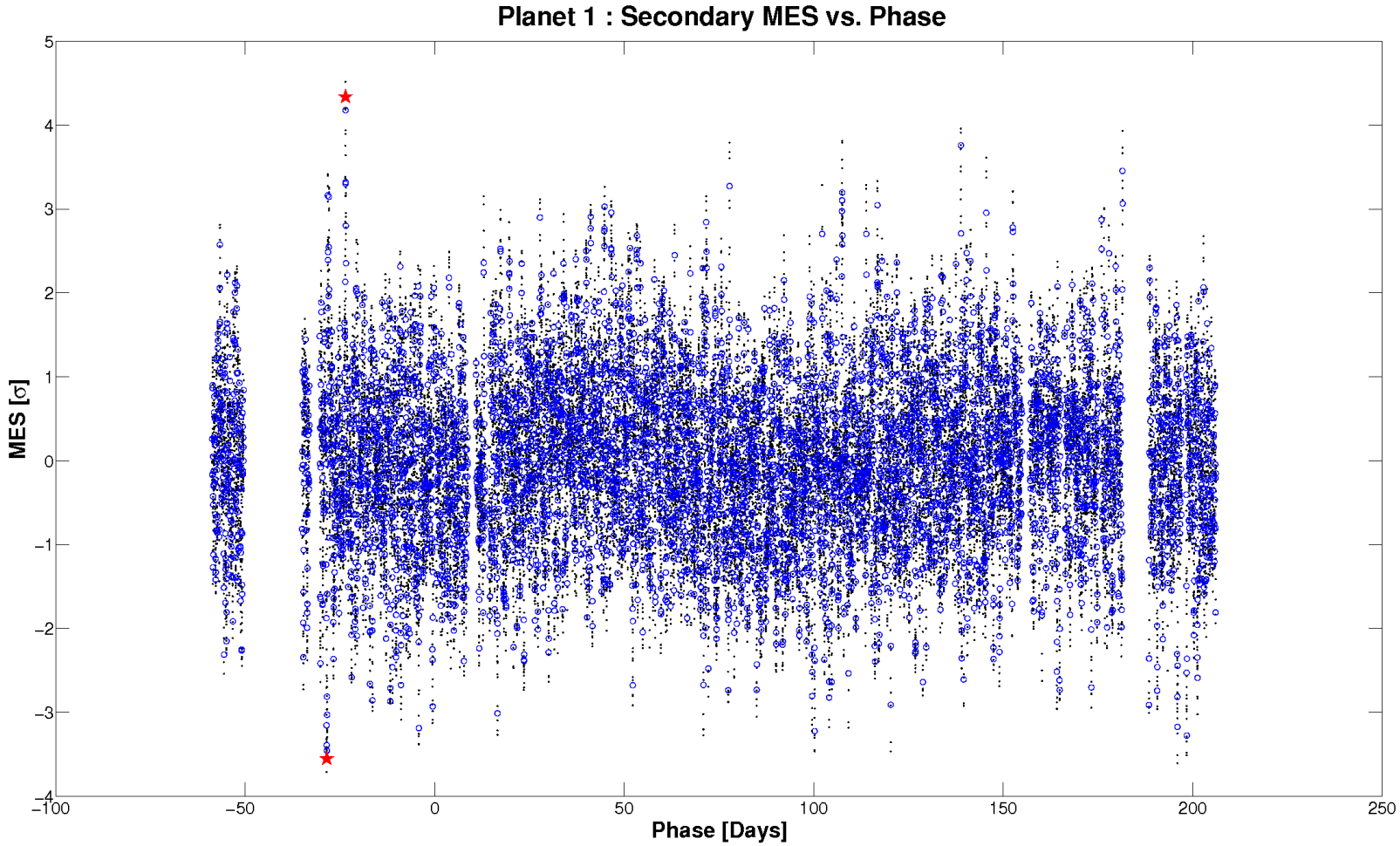
Peak offsets are relative to the out-of-transit centroid. Source offsets are relative to the KIC target location.

8.3.3 Eclipsing Binary Discrimination Test

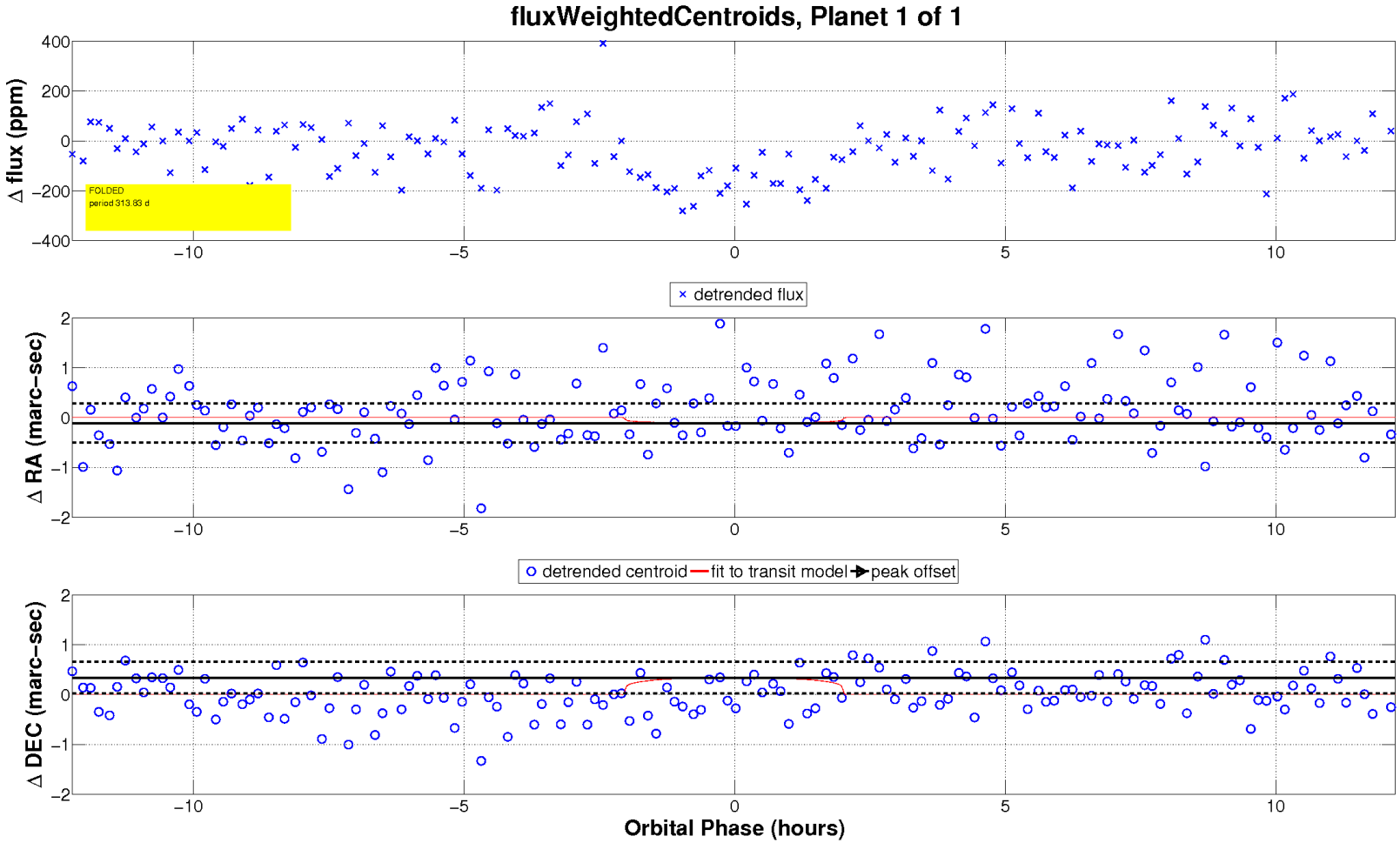
Result	Value	Value in Sigmas	Significance (%)
Odd Even Transit Depth Comparison Statistic	2.3090e-01	0.4805	63.09
Odd Even Transit Epoch Comparison Statistic	2.0658e-03	0.0455	96.37

8.3.4 Bootstrap Test

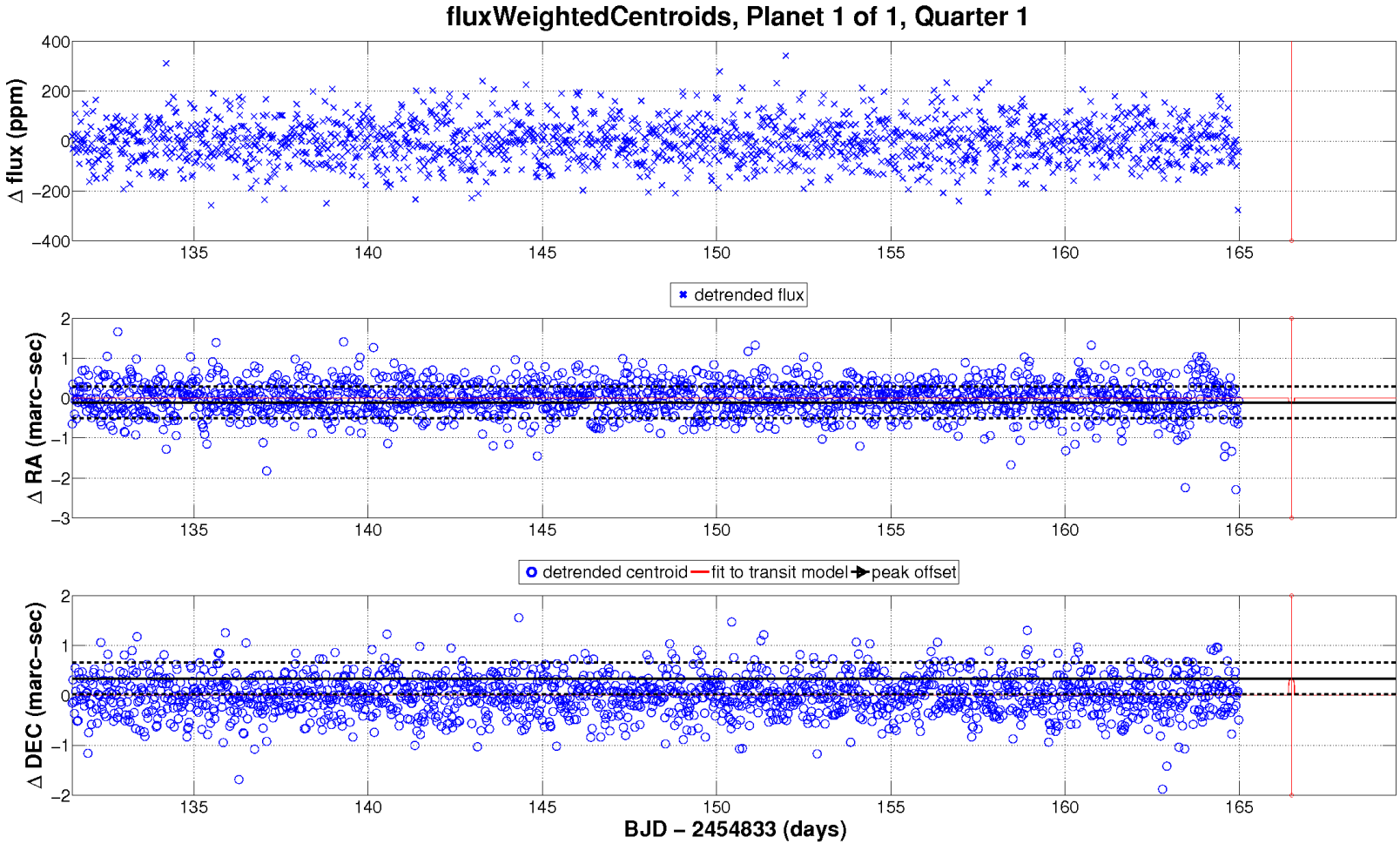
```
No bootstrap results available.
```



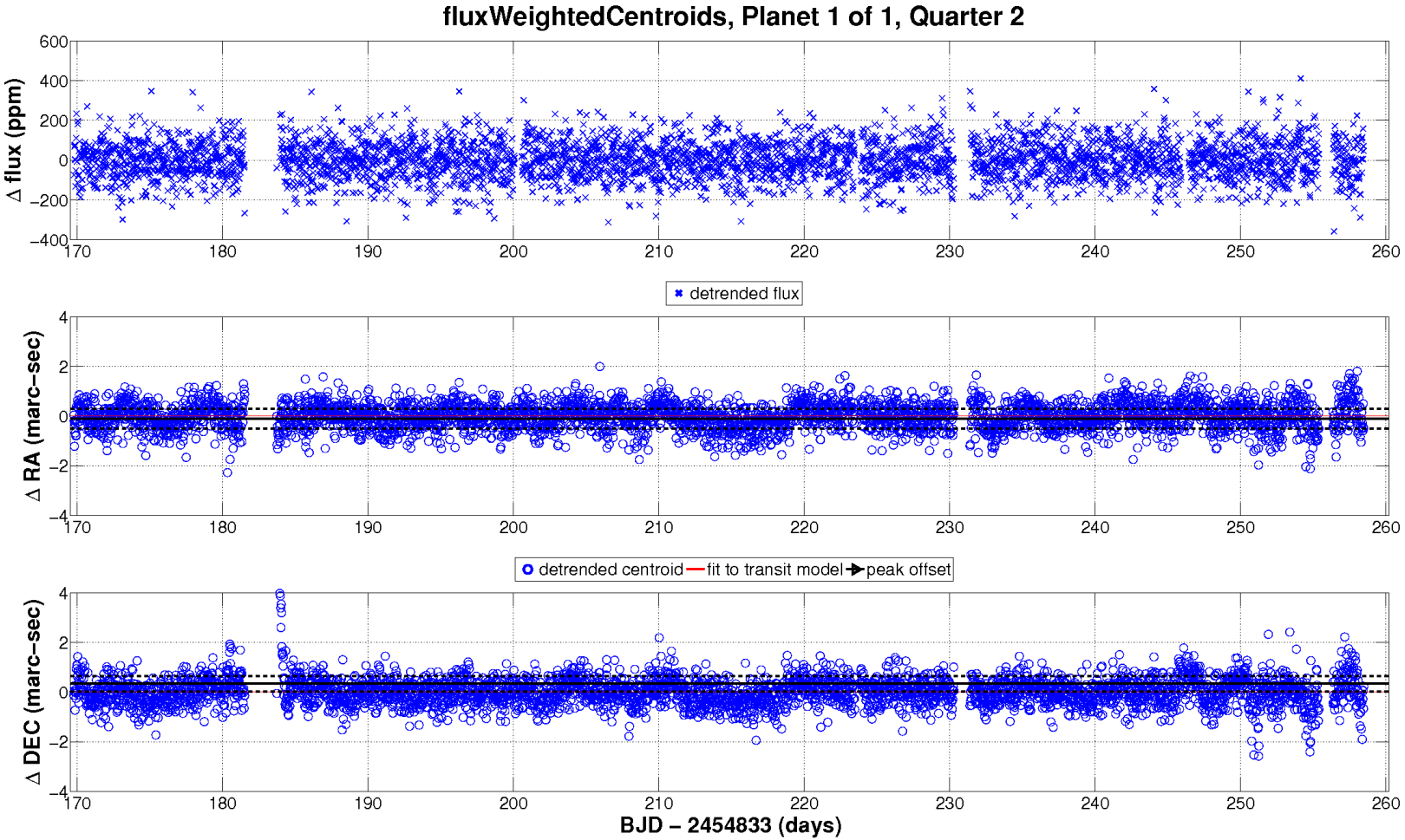
The primary event has been set to zero and both the max and min of the resulting MES vs. Phase are marked with a red star. The best matched pulse duration in hours is 4.5. The maximum secondary MES and corresponding phase are 4.3381 and -23.5531 days respectively.The minimum secondary MES and corresponding phase are -3.5526 and -28.4981 days respectively.
Open `./planet-01/report-summary/010552263-01-weak-secondary-diagnostic.fig`



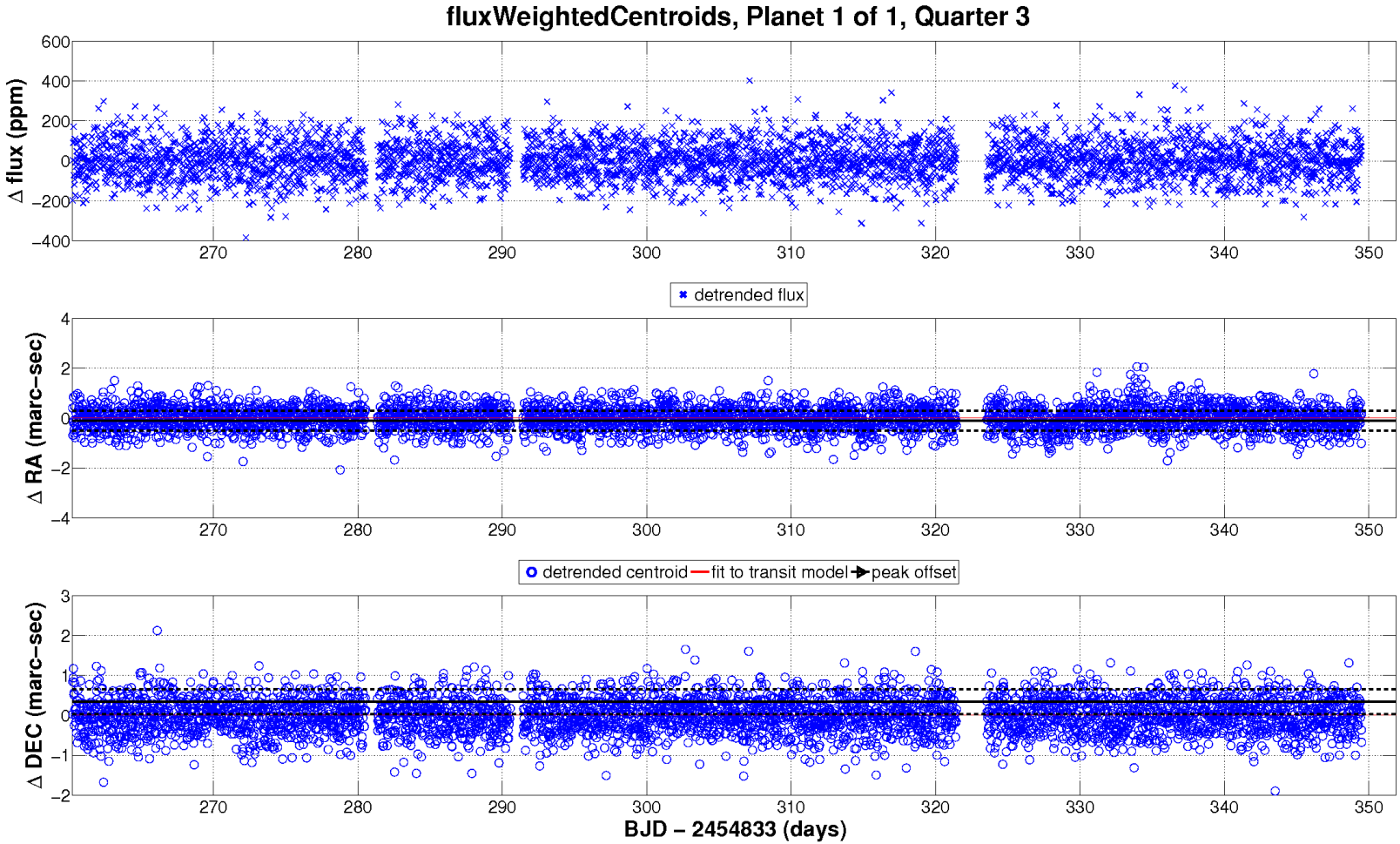
KeplerId 10552263, KeplerMag 12.35 - FOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data folded at the fitted orbital period and centered on the fitted transit over a few fitted transit durations. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out-of-transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-folded-transit-fit-fluxWeighted-centroids.fig`



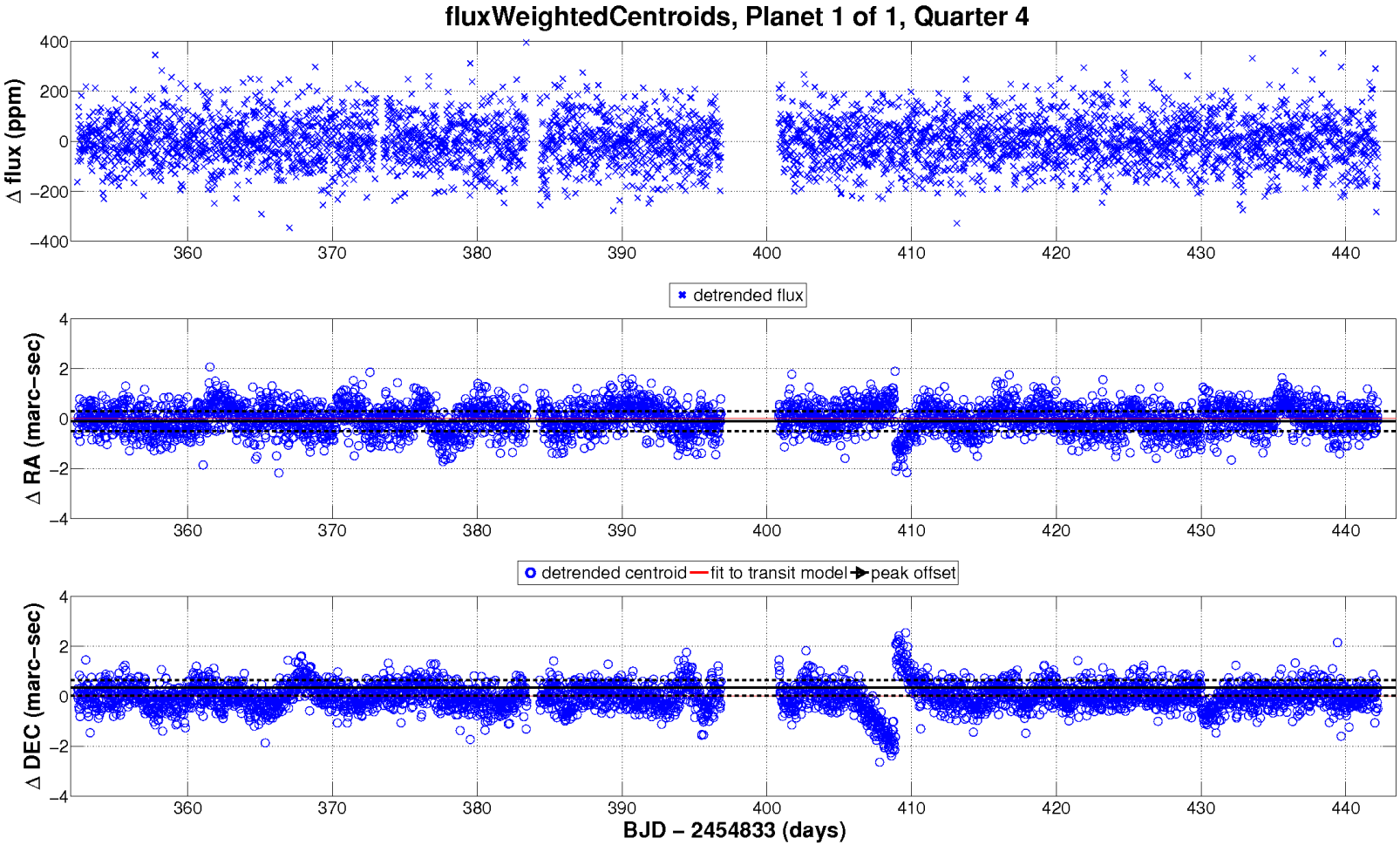
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-01.fig`



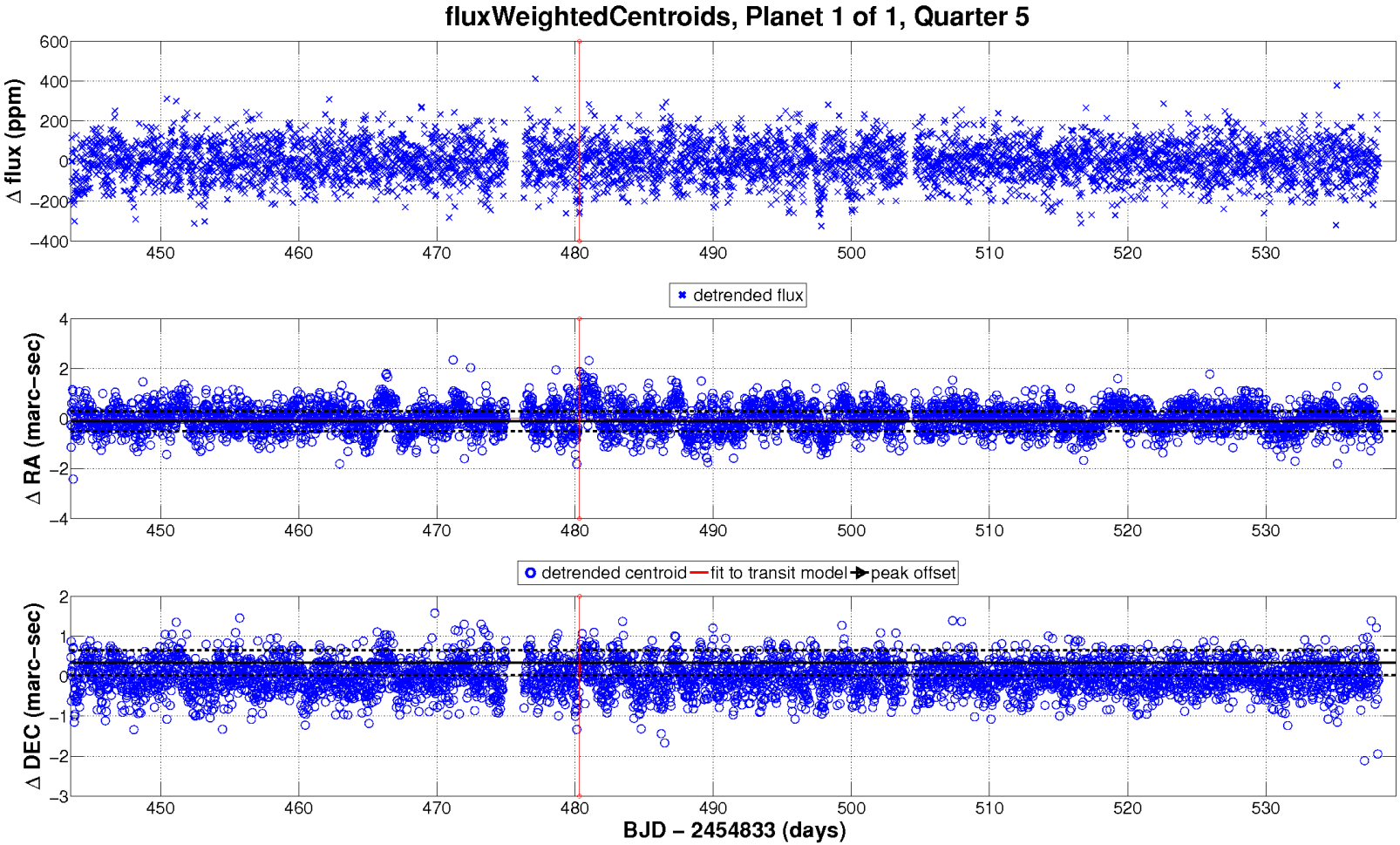
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-02.fig`



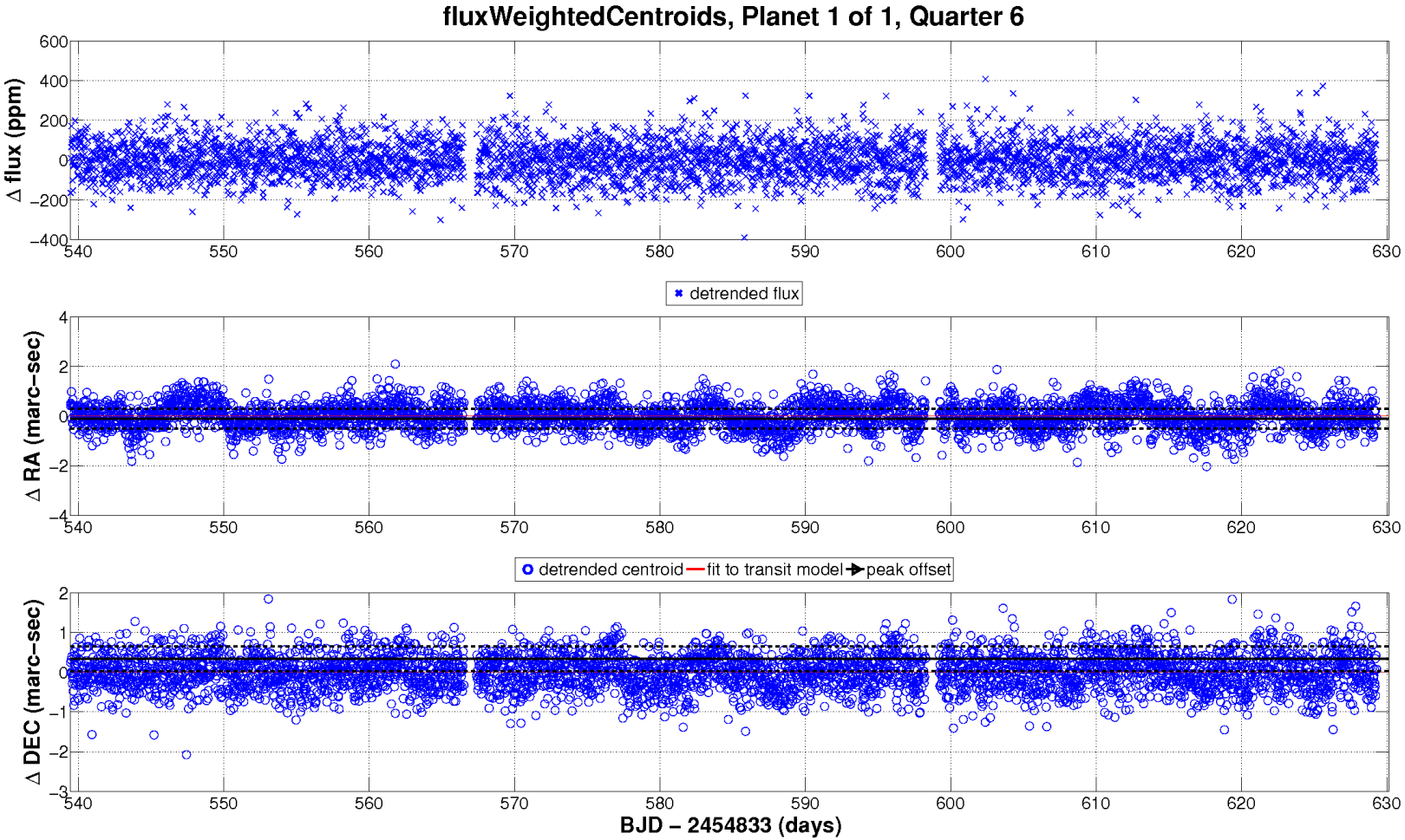
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-03.fig`



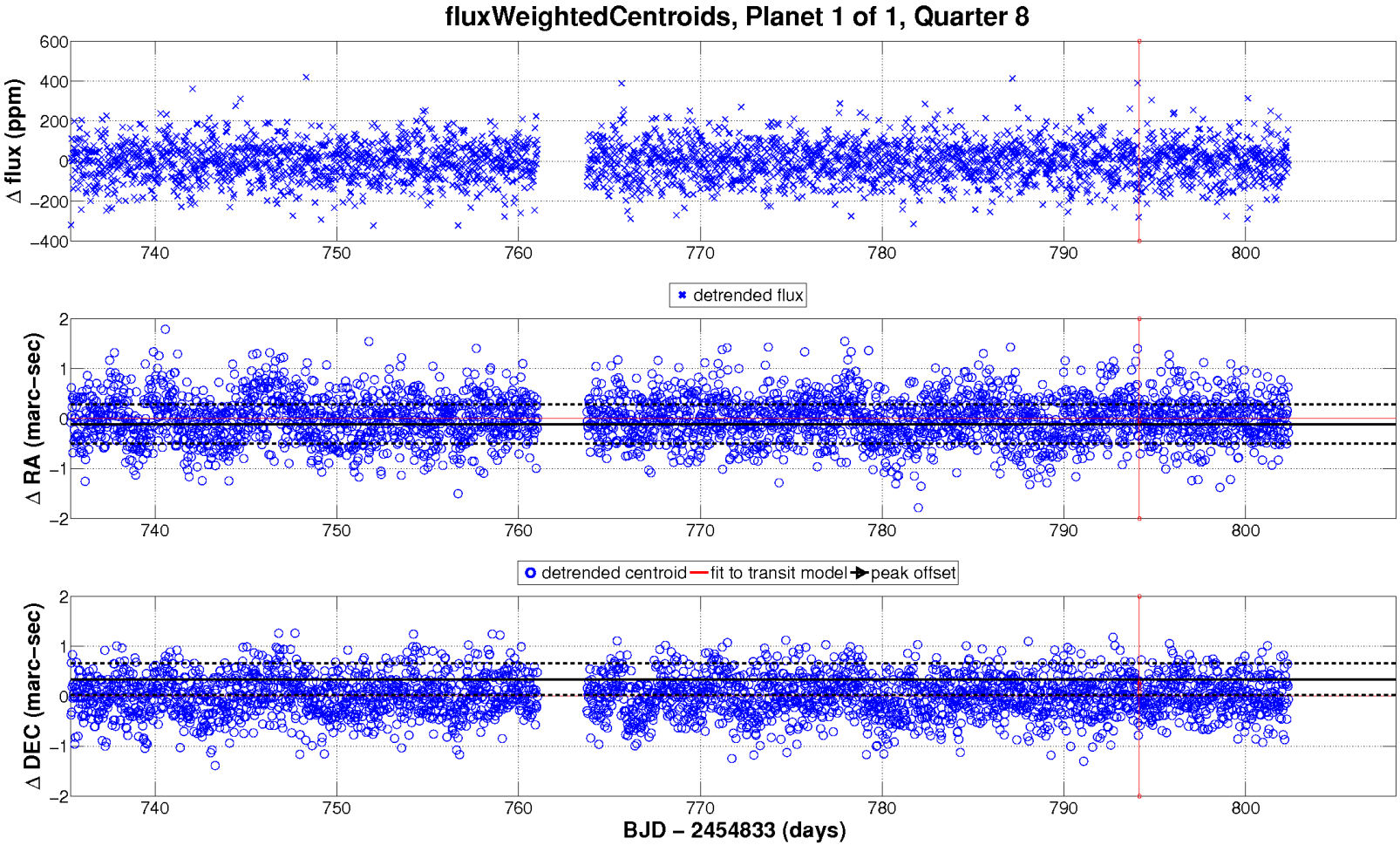
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-04.fig`



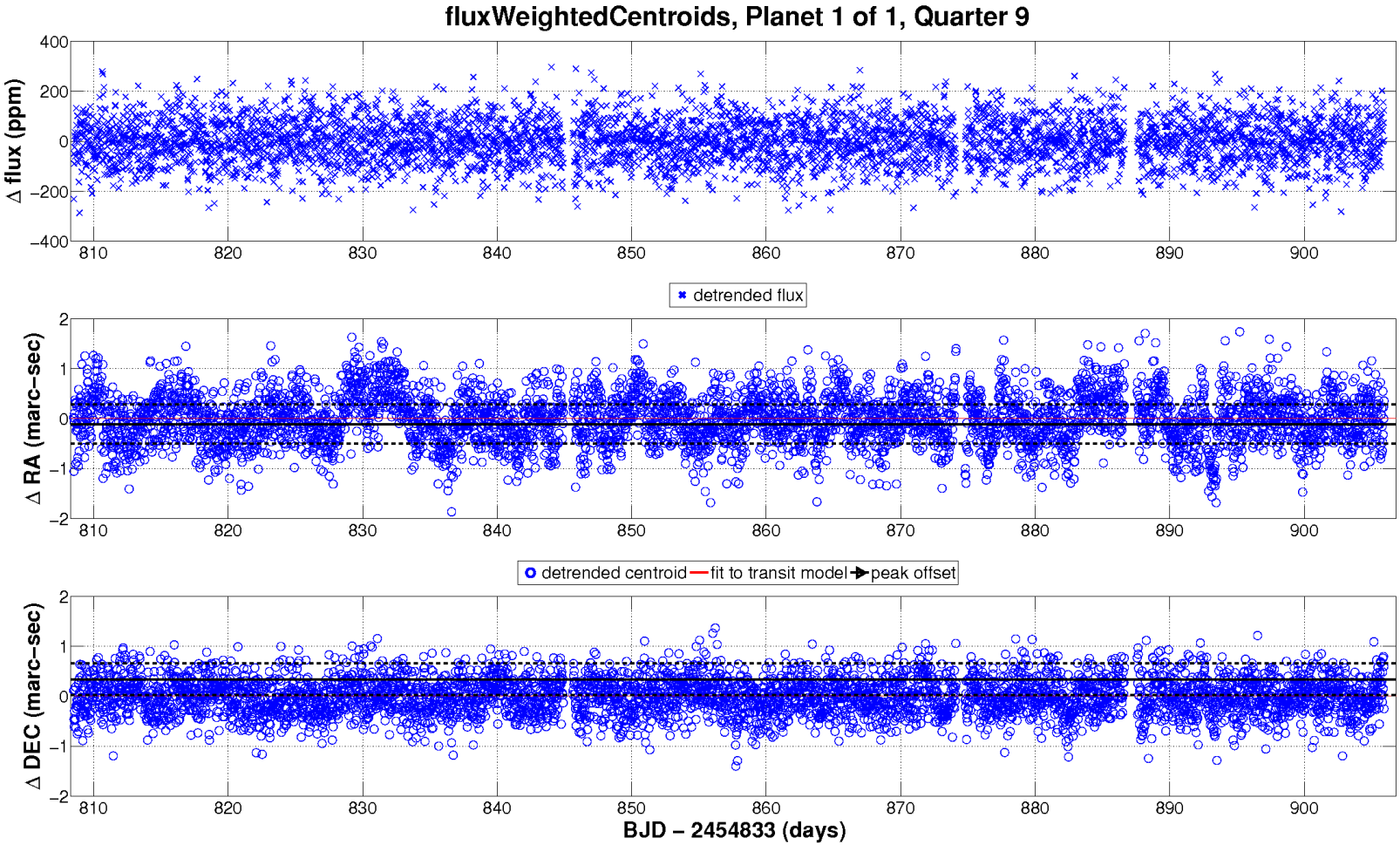
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-05.fig`



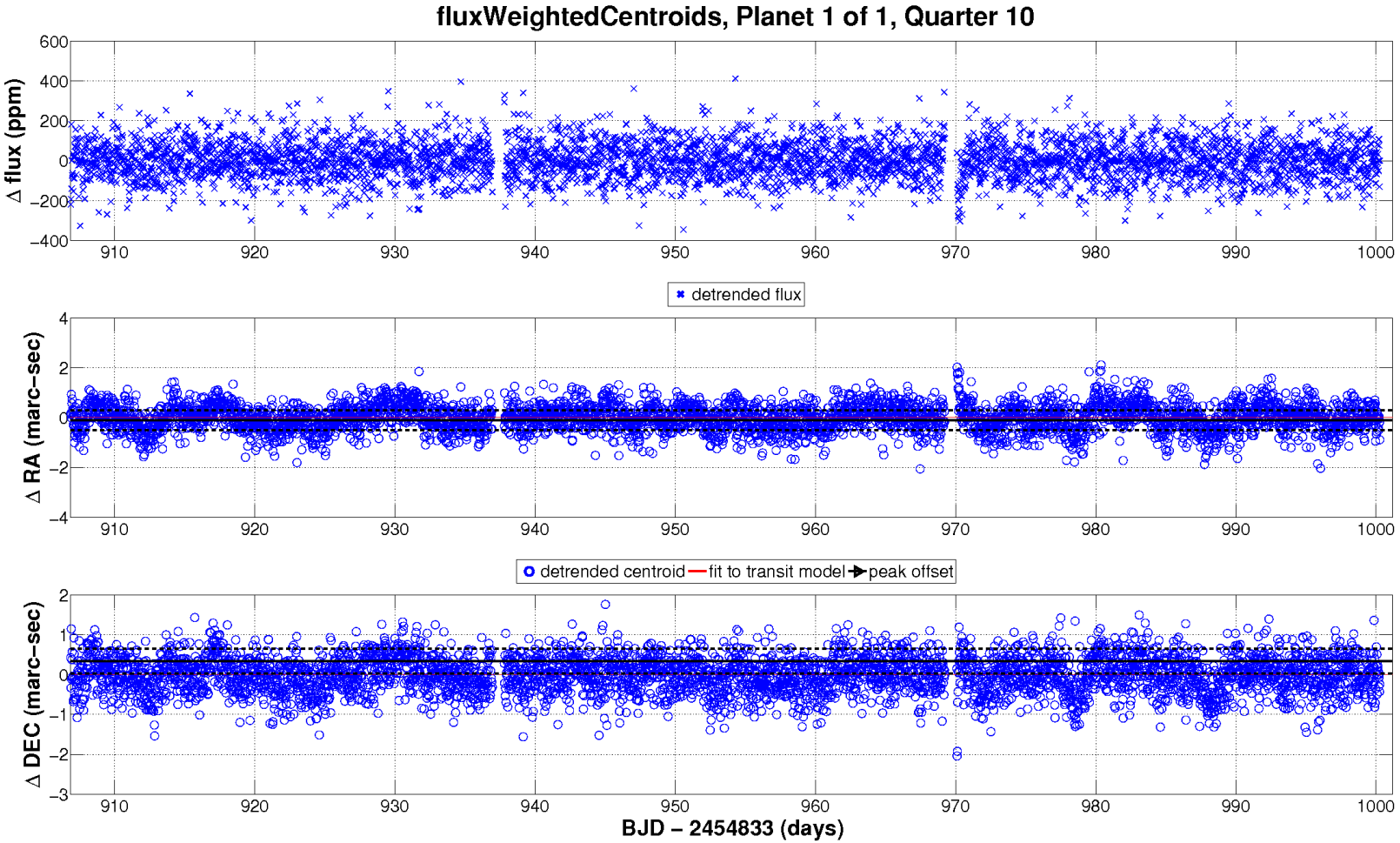
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-06.fig`



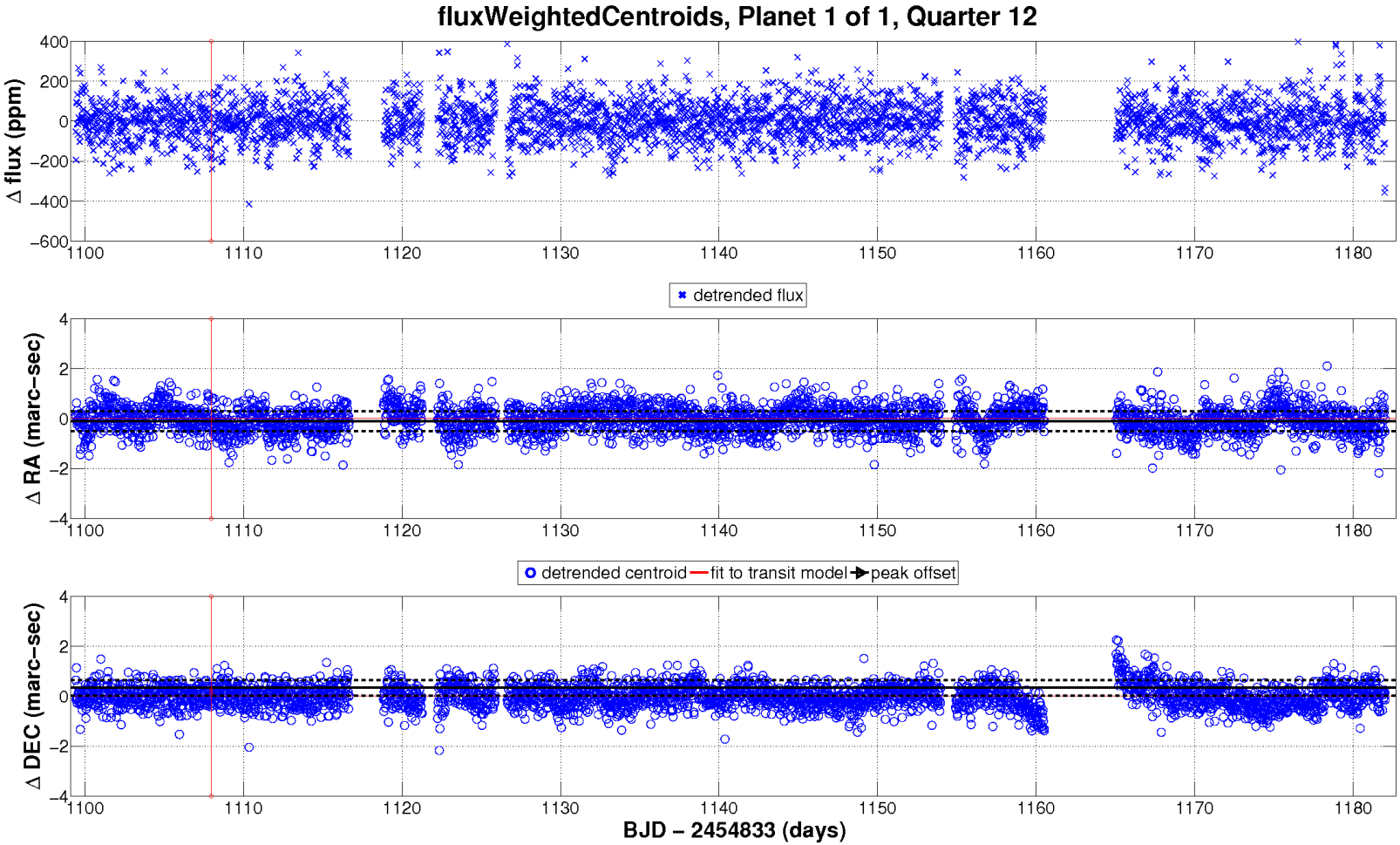
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-08.fig`



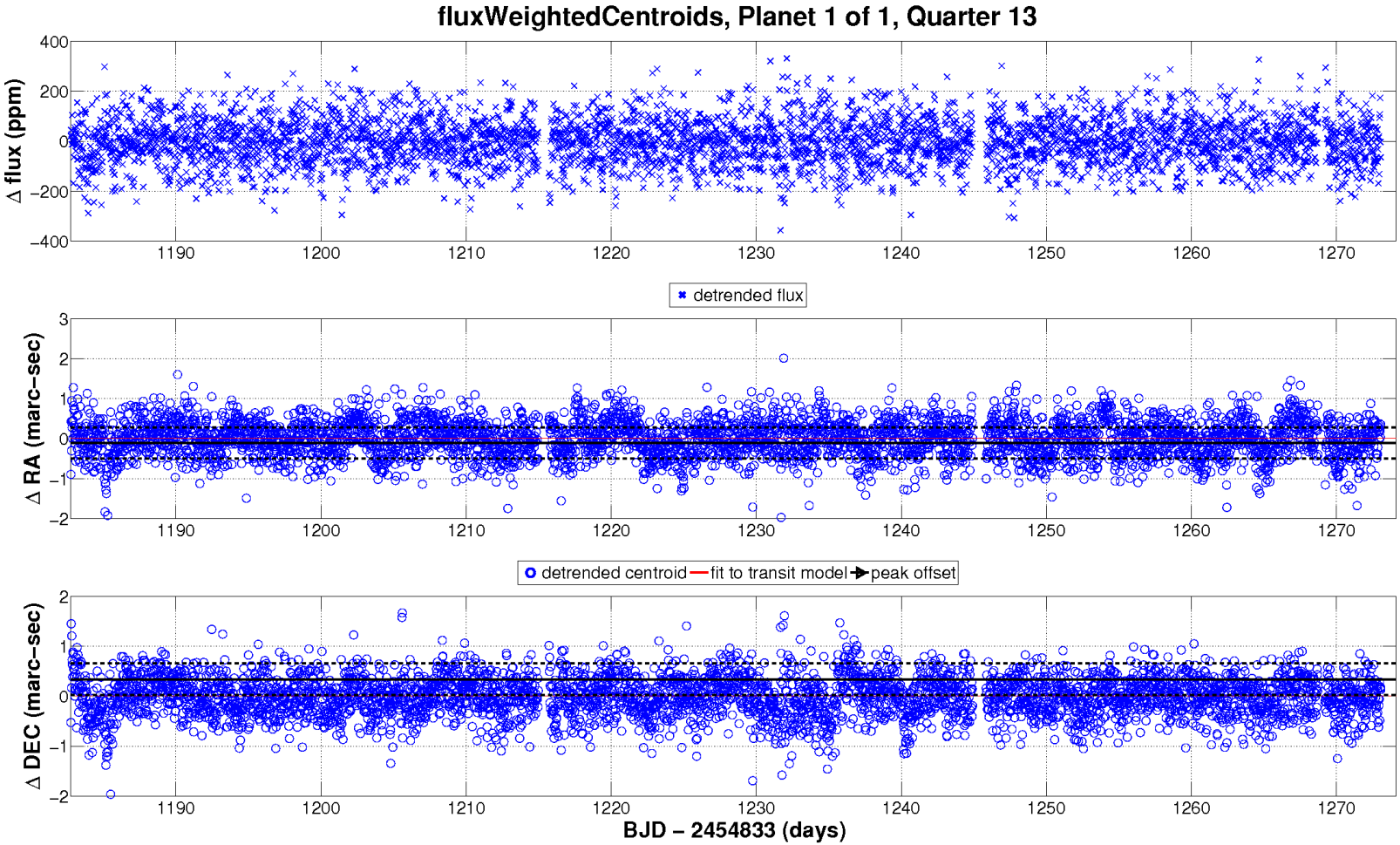
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-09.fig`



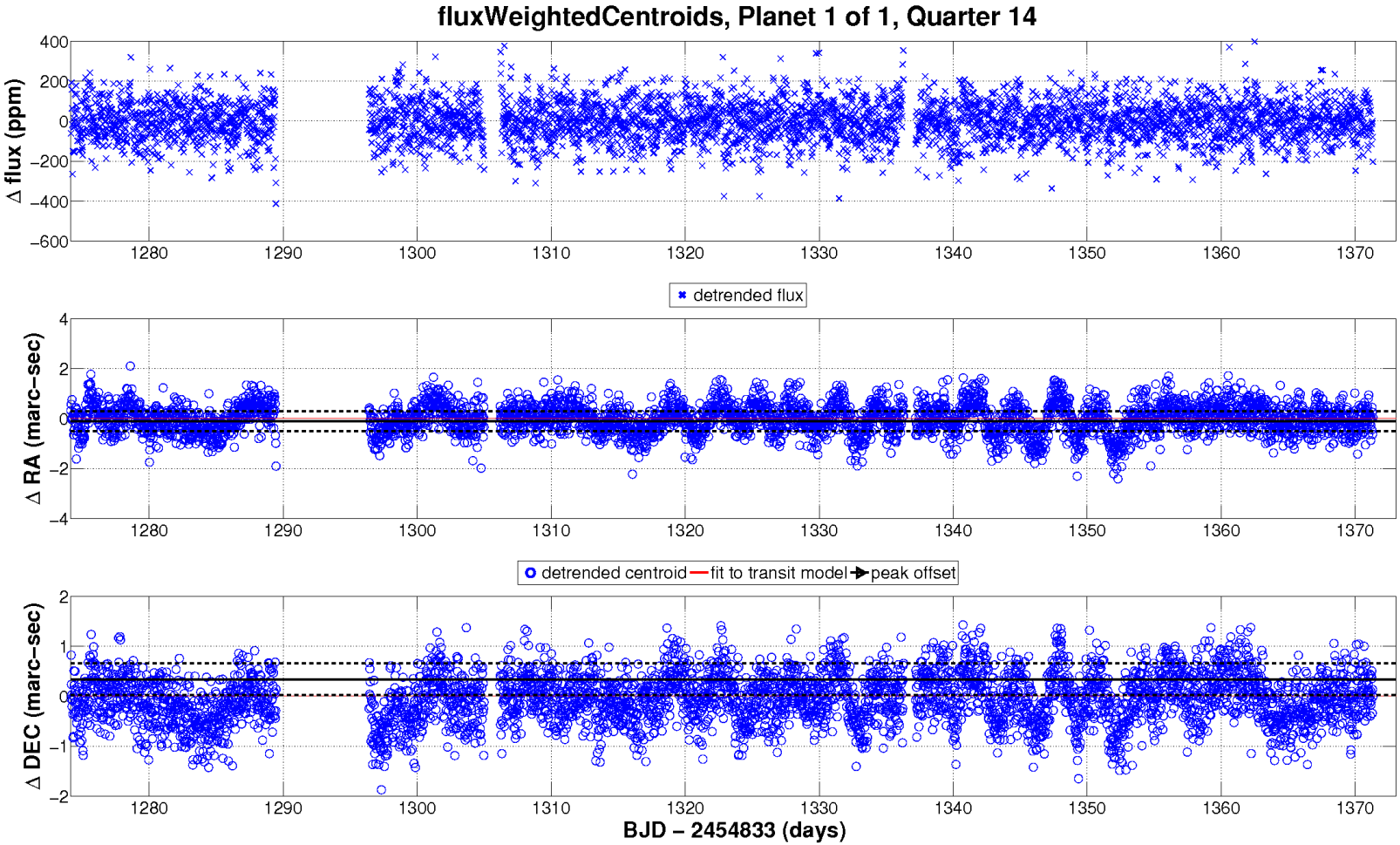
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-10.fig`



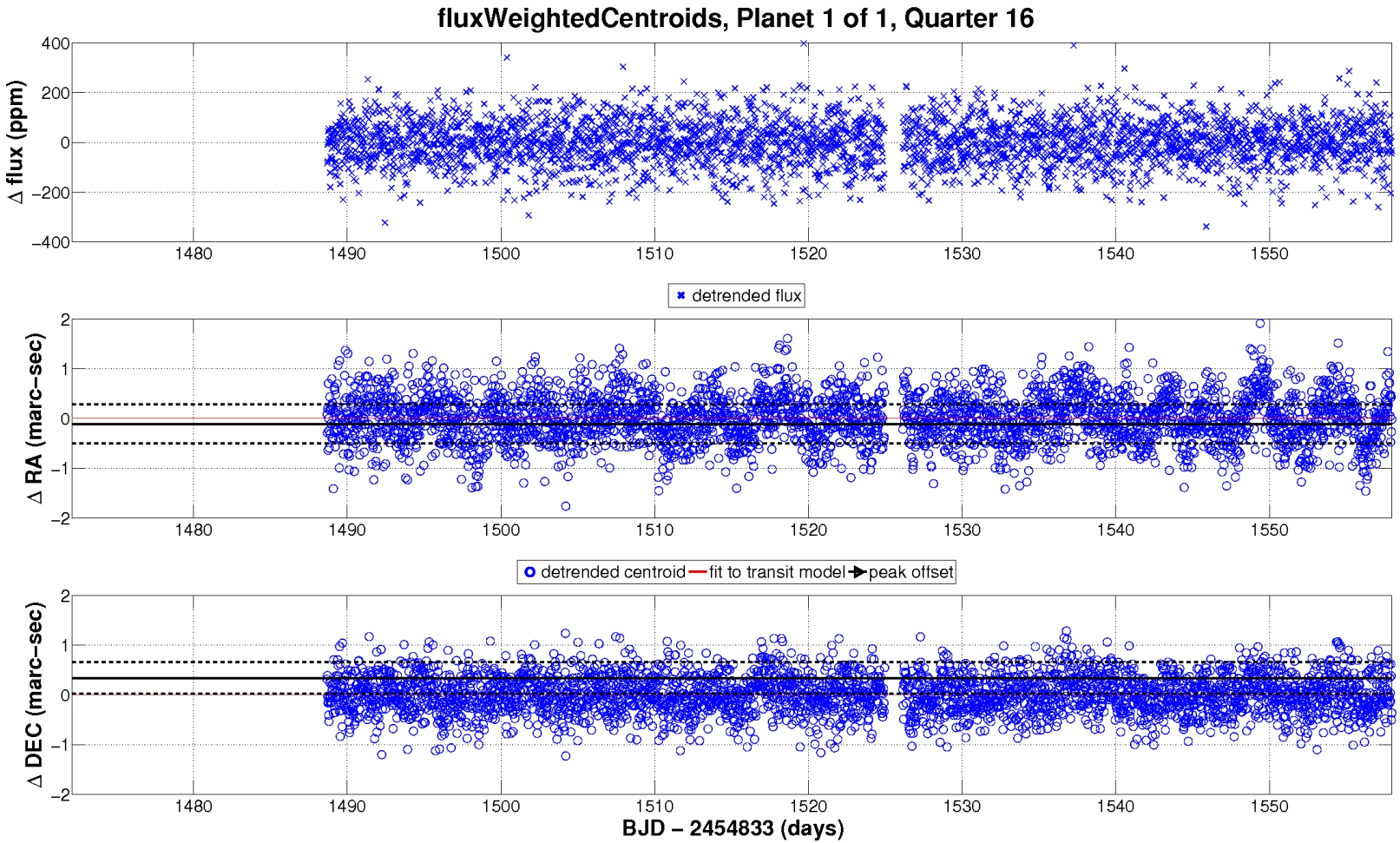
KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-12.fig`



KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-13.fig`



KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-14.fig`

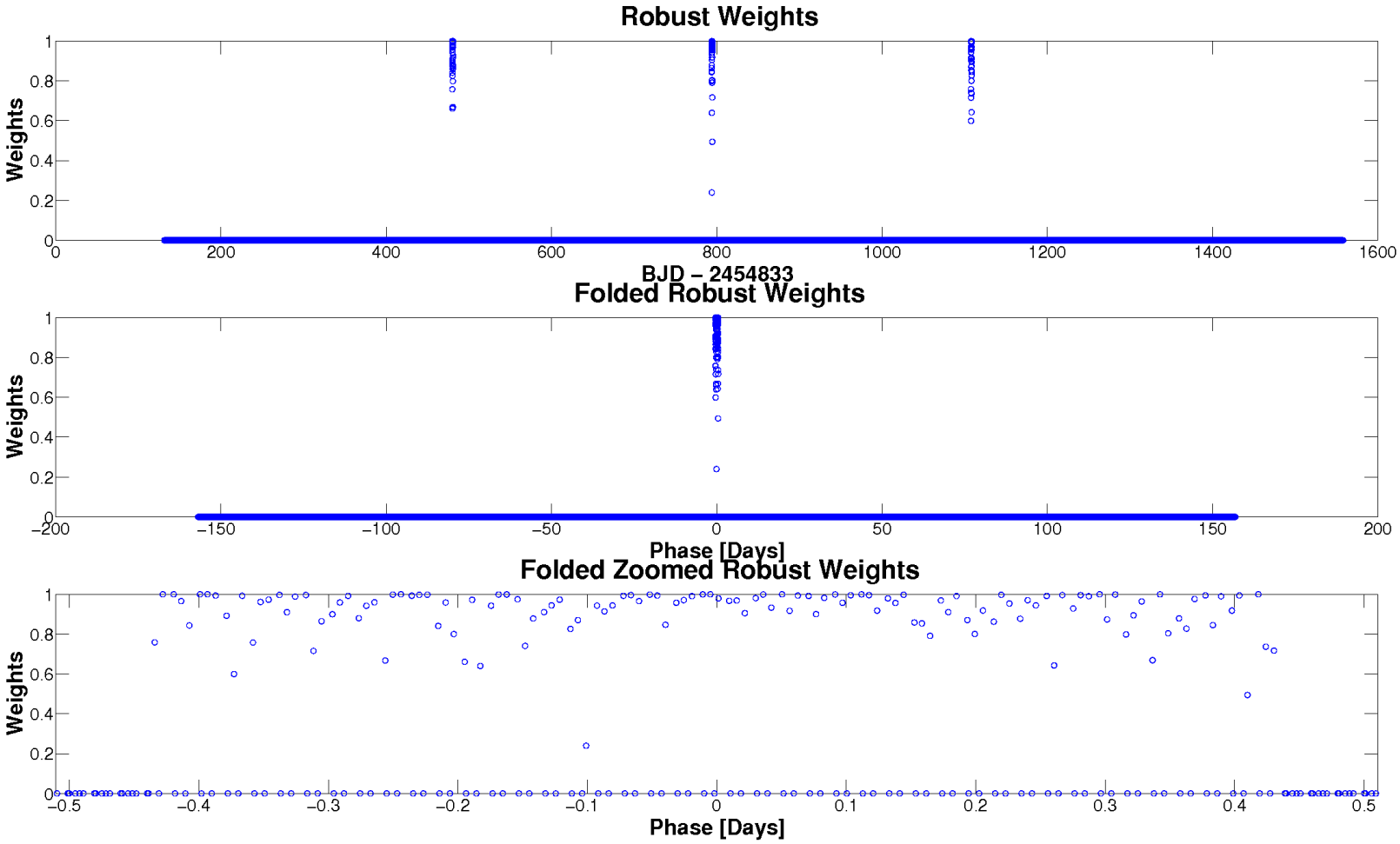


KeplerId 10552263, KeplerMag 12.35 - UNFOLDED FLUX AND CENTROIDS - This figure shows detrended flux and centroid data over the full time range of the data set. The top panel shows the change in corrected flux for this target, normalized to the median out of transit value, median detrended with the median out of transit value removed. The bottom two panels show the corresponding change in the centroid in right ascension (RA) and declination (DEC) angles on the sky. The centroids are detrended against ancillary data and have the mean out-of-transit value removed. The scaled transit model fit to the target flux is shown on the centroid plots in red. The peak fitted offset from the out of transit centroid is indicated by the solid black horizontal line. One sigma error bars are indicated with dashed black horizontal lines. Red circles and vertical lines mark the fitted transit centers. In-transit data points for any other planets identified for this target have been gapped. The out-of-transit mean and standard deviation (SD) indicated in the lower left-hand corner are robust estimates.
Open `./planet-01/centroid-test-results/010552263-01-transit-fit-fluxWeighted-centroids-16.fig`

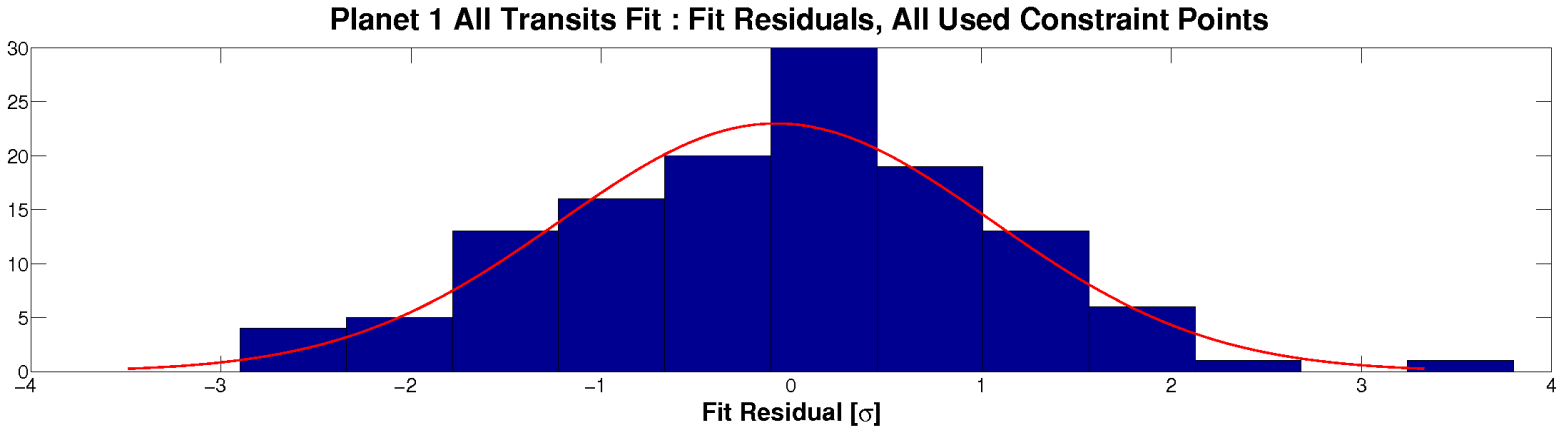
No figures named 010552263-01-bootstrap-false-alarm.fig are available.

Appendix A Planet Candidate 1

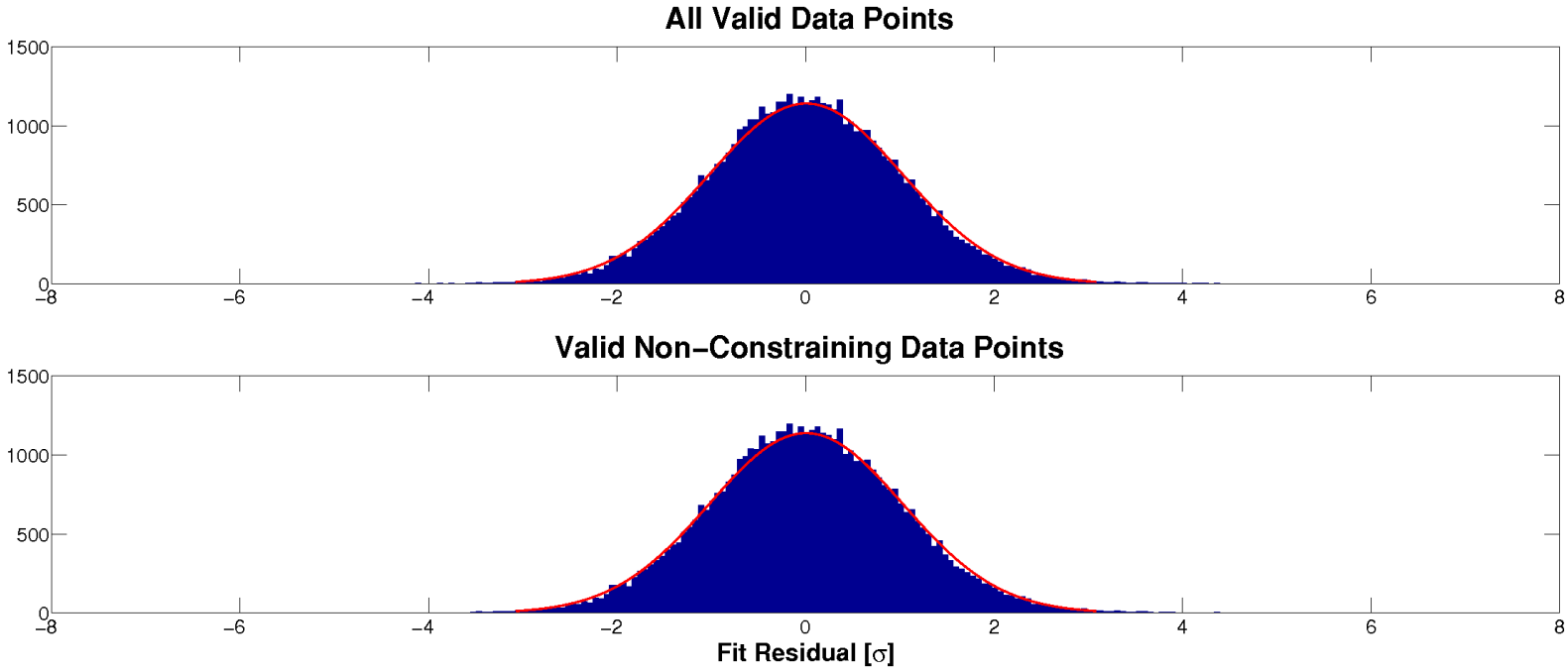
A.1 Model Fitter: All Transits



Robust weights distribution for KeplerId 10552263, Planet candidate 1. Top plot: all data points. Middle plot: all data points, folded per the fitted period and epoch. Bottom plot: all data points, folded and zoomed.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-robust-weights.fig`



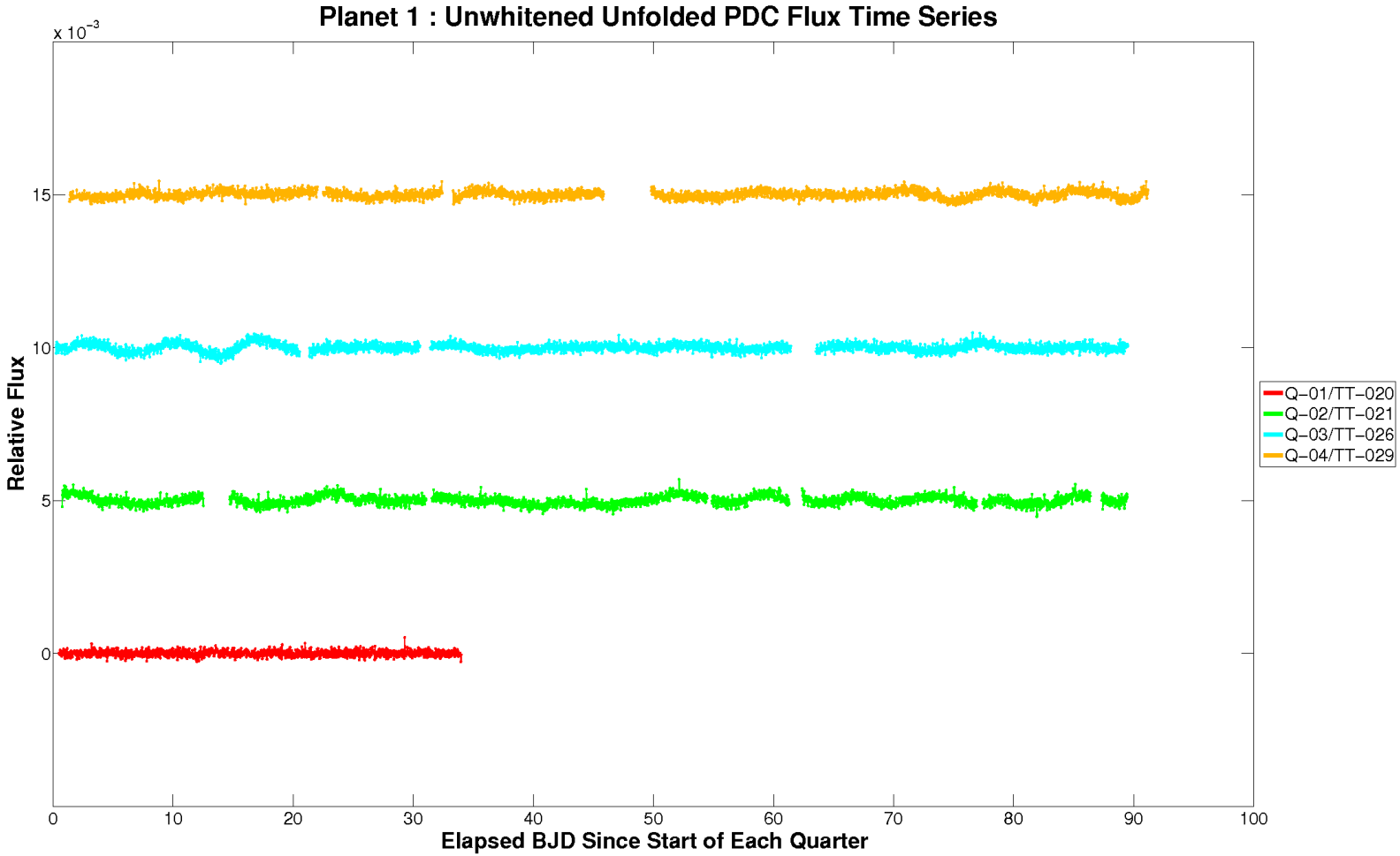
Fit residuals distribution for KeplerId 10552263, Planet candidate 1. Only the valid data points used to constrain the fit are shown here. A Gaussian fit to the histogram is shown in red.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-histo-used.fig`



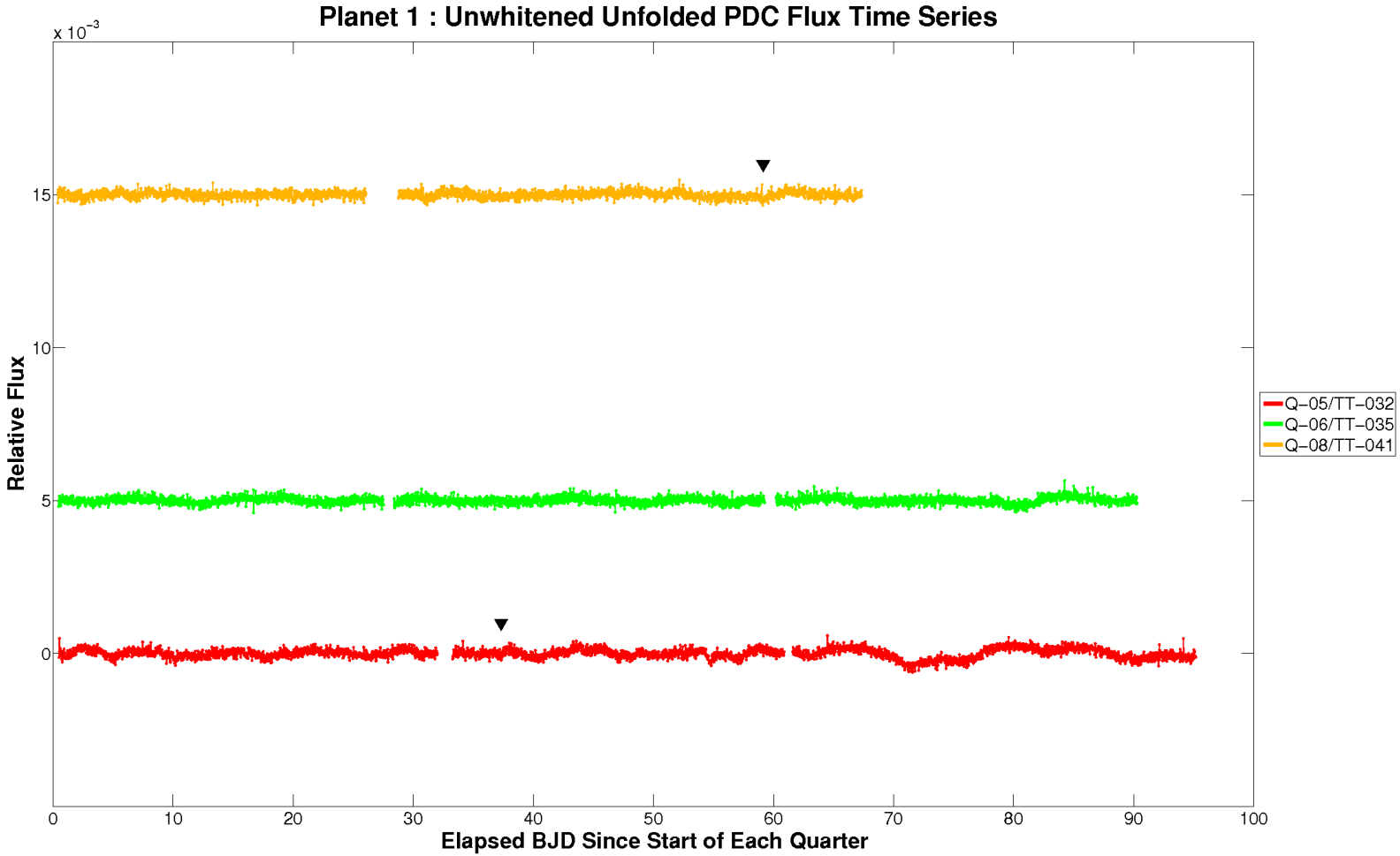
Fit residuals distribution for KeplerId 10552263, Planet candidate 1. Top plot: all valid data. Bottom plot: valid data not used to constrain fit (due to distance from a transit). Gaussian fits to the histograms are shown in red.
Open `./planet-01/planet-search-and-model-fitting-results/all-transits-fit/010552263-01-all-histo-all-and-unused.fig`

A.2 Model Fitter: Odd & Even Transits

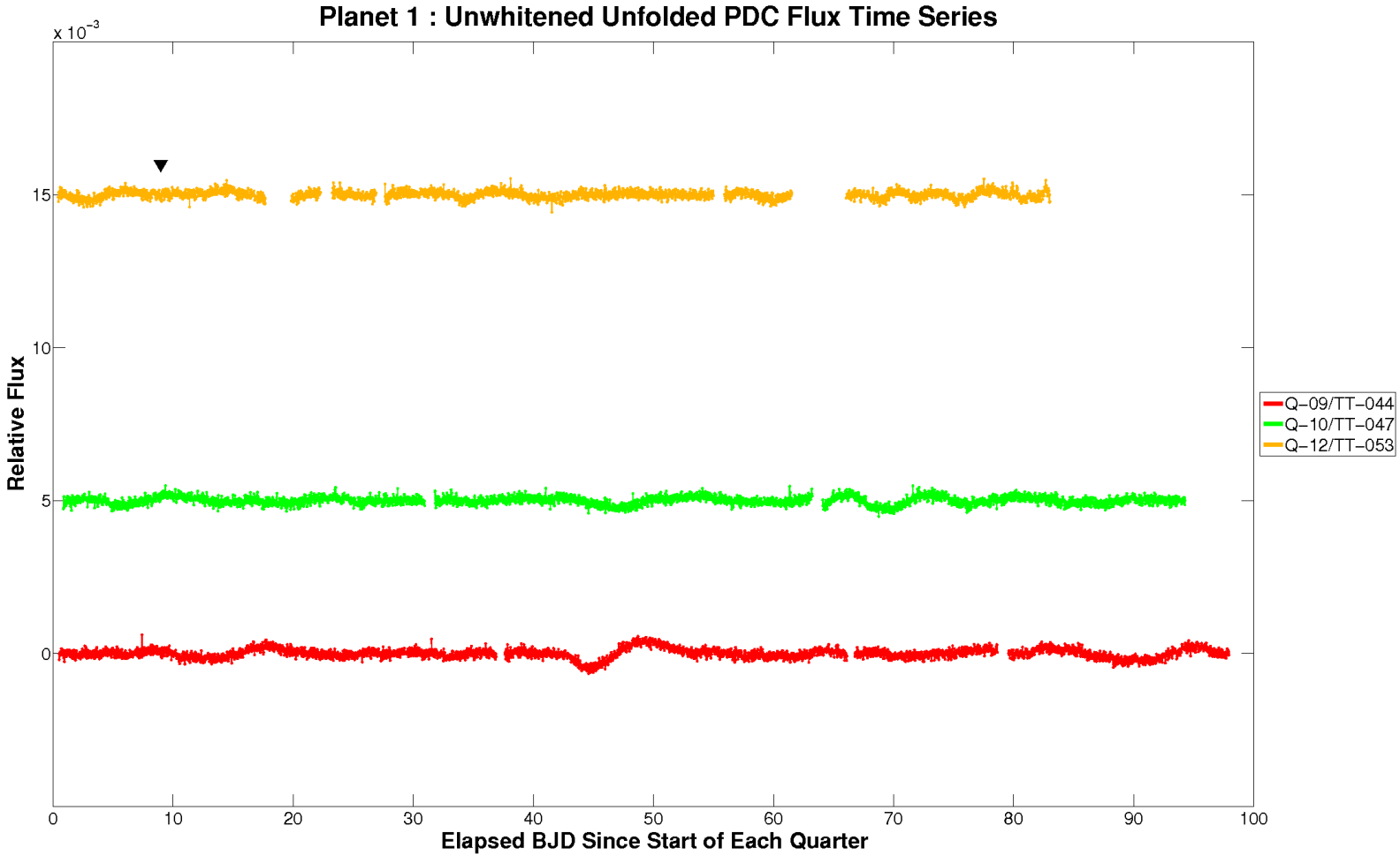
Parameter	Odd Transits Value	Odd Transits Uncertainty	Even Transits Value	Even Transits Uncertainty	Units	Difference / ‖Uncertainty‖
SNR	3.4		6.7			
Model Chi Square	125		125			
Degrees of Freedom	107		107			
Transit Epoch	166.4925895	1.4052e-02	480.3261049	1.2919e-02	BKJD	3.8619e-01
Eccentricity	0.0000	0.0000e+00	0.0000	0.0000e+00		
Peri Longitude	0.0000	0.0000e+00	0.0000	0.0000e+00	degrees	
Planet Radius	1.2496	5.5969e+00	1.3593	5.5730e+00	Earth radii	1.3885e-02
Planet Radius to Star Radius Ratio	0.0117692	5.2713e-02	0.0128021	5.2488e-02		1.3885e-02
Semi-major Axis	0.8979	0.0000e+00	0.8979	1.8636e-05	AU	4.2234e-02
Semi-major Axis to Star Radius Ratio	550.4169	1.1453e+04	616.0288	1.1706e+04		4.0065e-03
Impact Parameter	0.3150	5.9547e+01	0.1461	1.2818e+02		1.1955e-03
Star Radius	0.9730	0.0000e+00	0.9730	0.0000e+00	solar radii	
Transit Duration	4.1879	2.5160e+00	3.9004	1.6502e+00	hours	9.5546e-02
Transit Ingress Time	0.0540	2.4905e+00	0.0504	2.1271e+00	hours	1.1146e-03
Transit Depth	163	5.8538e+01	197	3.7185e+01	ppm	4.8053e-01
Orbital Period	313.8261437	0.0000e+00	313.8257311	9.7703e-03	days	4.2234e-02
Equilibrium Temperature	272	7.3285e+01	272	7.3285e+01	Kelvin	1.1485e-06



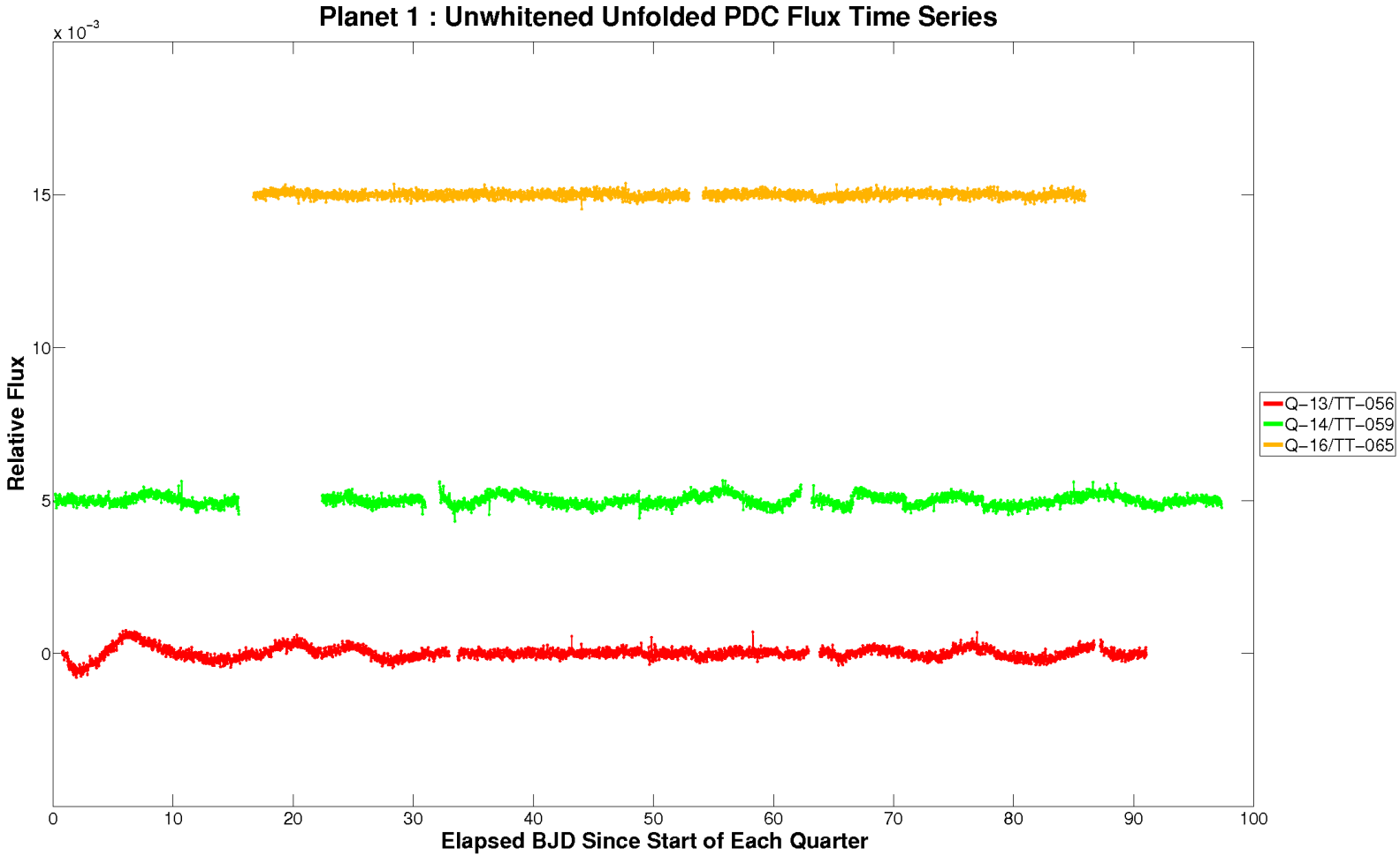
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-01/TargetTableId-020, start BJD is 2454964 and the vertical offset is 0. For the data of Quarter-02/TargetTableId-021, start BJD is 2455002 and the vertical offset is 0.005. For the data of Quarter-03/TargetTableId-026, start BJD is 2455093 and the vertical offset is 0.01. For the data of Quarter-04/TargetTableId-029, start BJD is 2455184 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. Odd-even transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-unwhitened-01-020.fig`



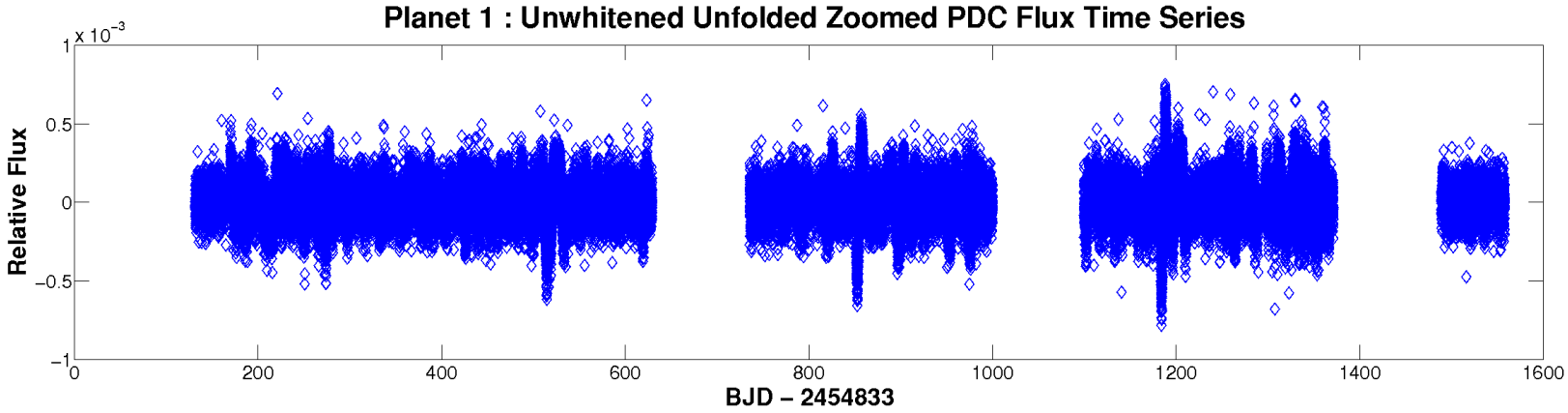
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-05/TargetTableId-032, start BJD is 2455276 and the vertical offset is 0. For the data of Quarter-06/TargetTableId-035, start BJD is 2455372 and the vertical offset is 0.005. For the data of Quarter-07/TargetTableId-038, start BJD is 2455463 and the vertical offset is 0.01. For the data of Quarter-08/TargetTableId-041, start BJD is 2455568 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. Odd-even transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-unwhitened-05-032.fig`



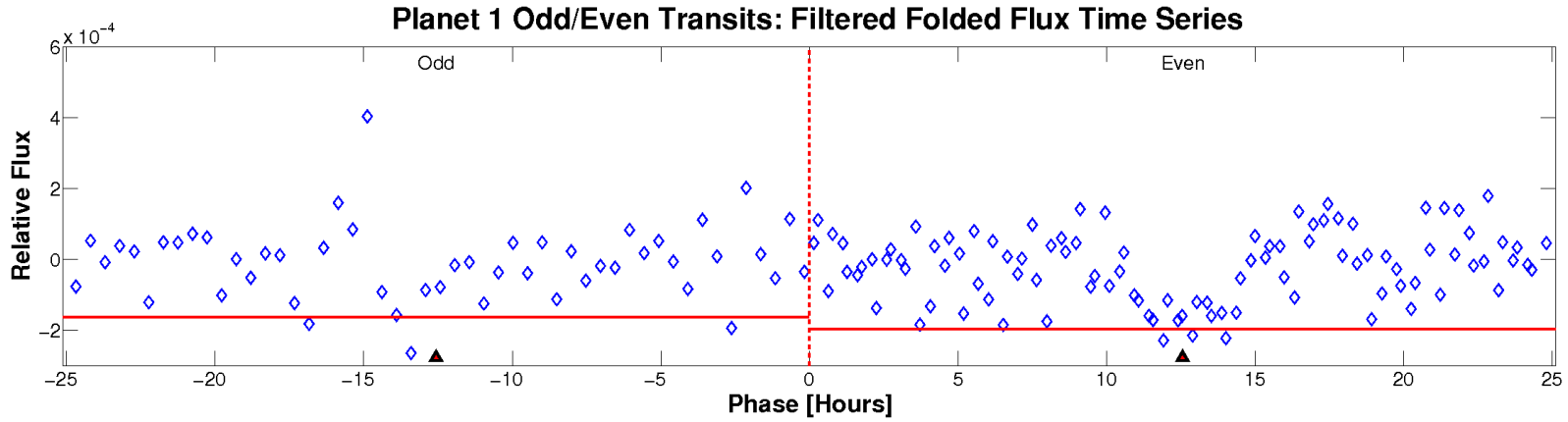
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-09/TargetTableId-044, start BJD is 2455641 and the vertical offset is 0. For the data of Quarter-10/TargetTableId-047, start BJD is 2455739 and the vertical offset is 0.005. For the data of Quarter-11/TargetTableId-050, start BJD is 2455834 and the vertical offset is 0.01. For the data of Quarter-12/TargetTableId-053, start BJD is 2455932 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. Odd-even transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-unwhitened-09-044.fig`



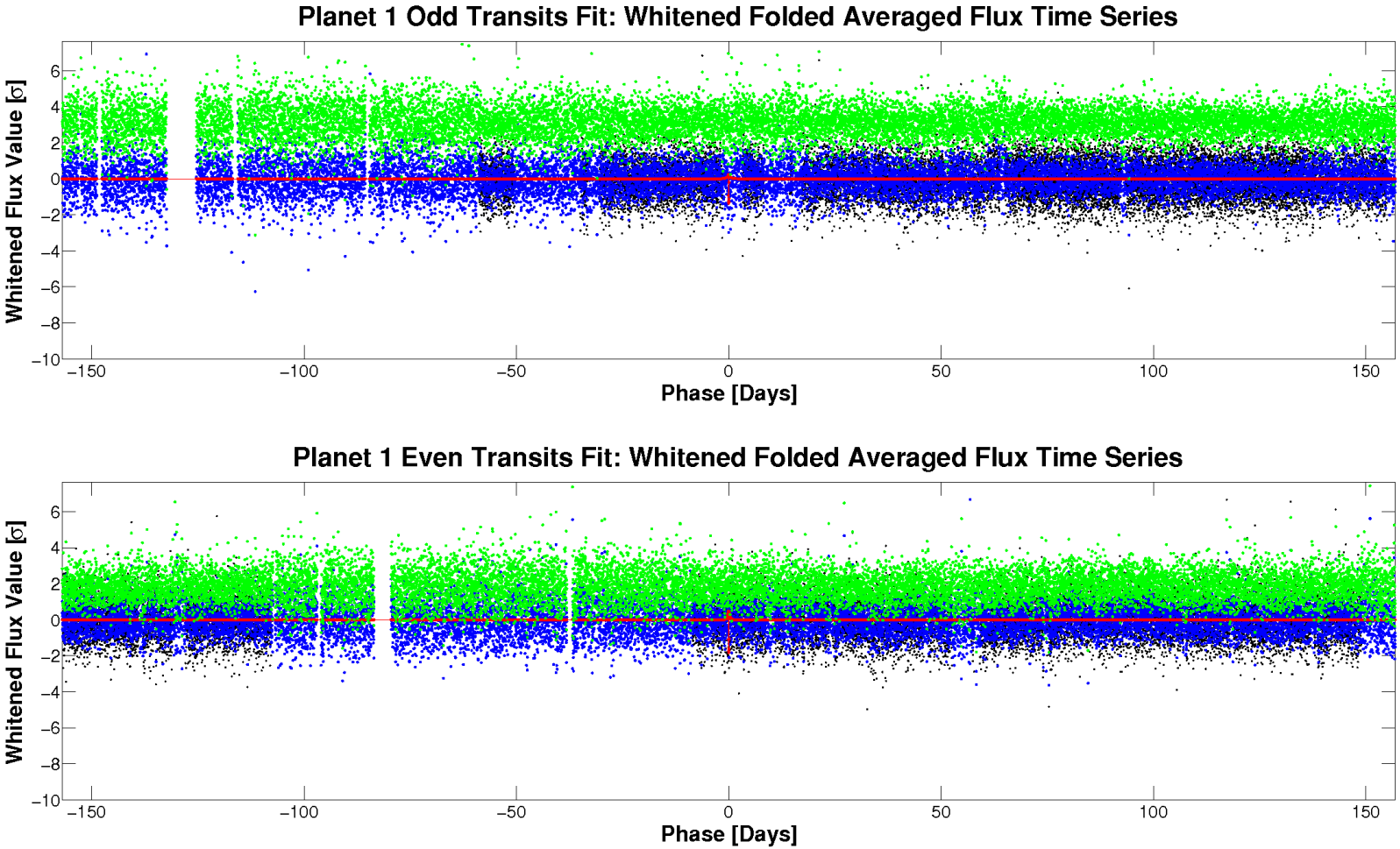
PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. For the data of Quarter-13/TargetTableId-056, start BJD is 2456015 and the vertical offset is 0. For the data of Quarter-14/TargetTableId-059, start BJD is 2456107 and the vertical offset is 0.005. For the data of Quarter-15/TargetTableId-062, start BJD is 2456206 and the vertical offset is 0.01. For the data of Quarter-16/TargetTableId-065, start BJD is 2456305 and the vertical offset is 0.015. Transit event markers indicate the location of transits of the given planet candidate. Odd-even transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-unwhitened-13-056.fig`



PDC Flux time series for KeplerId 10552263, Planet candidate 1 in the unwhitened domain, zoomed on last 5 transits in the unit of work. If # of transits is smaller than 5, all transits are shown.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-unwhitened-zoomed.fig`

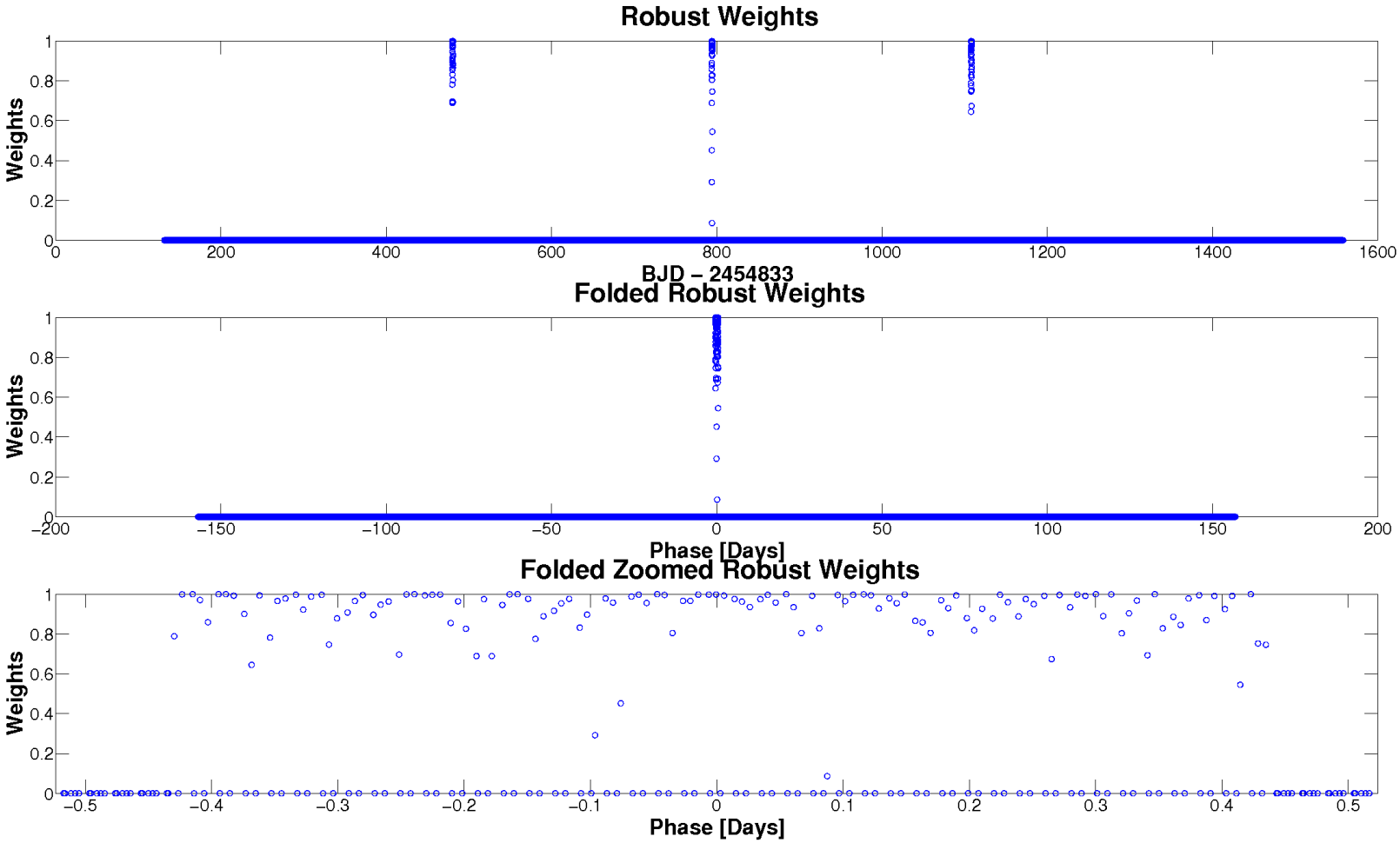


PDC Flux time series of odd/even transits for KeplerId 10552263, Planet candidate 1 in the unwhitened domain. Data has been high-pass filtered via a median filter operating at a specified multiple of the transit duration, folded per the fitted period and epoch, and zoomed to the location of the model transit.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-unwhitened-filtered-zoomed.fig`

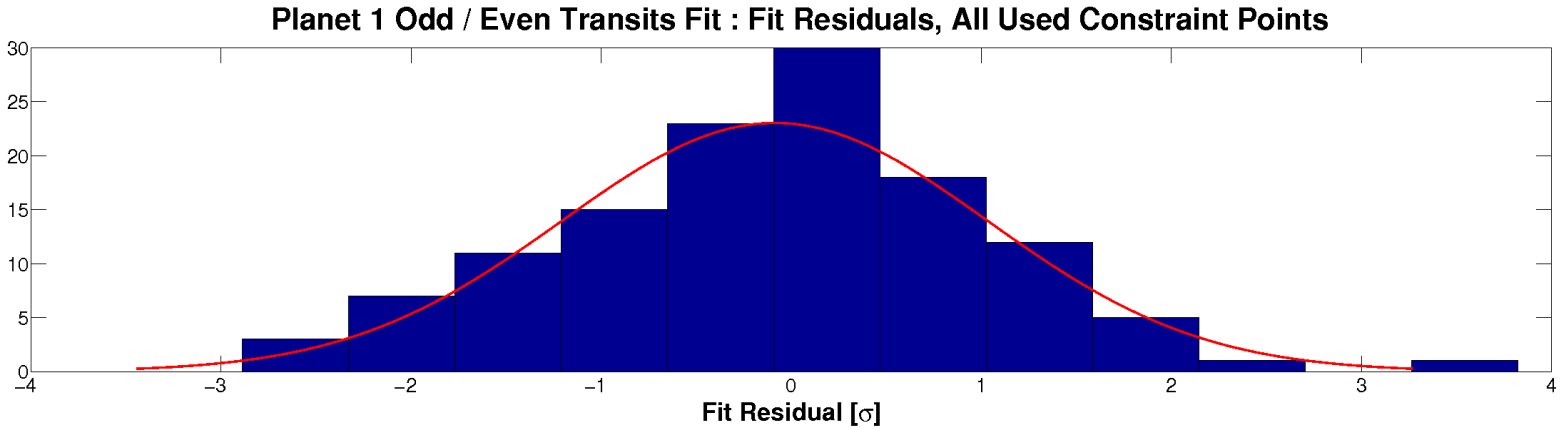


Folded flux time series for KeplerId 10552263, Planet candidate 1 in the whitened domain is plotted in black dots. Values are averaged into 1 cadence wide bins. The blue dots represent the averaged values of the folded flux time series; the red dots represent the averaged values of the folded model light curve of the odd/even transits fit; the green dots are the averaged folded fit residuals, vertically offset for clarity. Odd-even transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-whitened.fig`

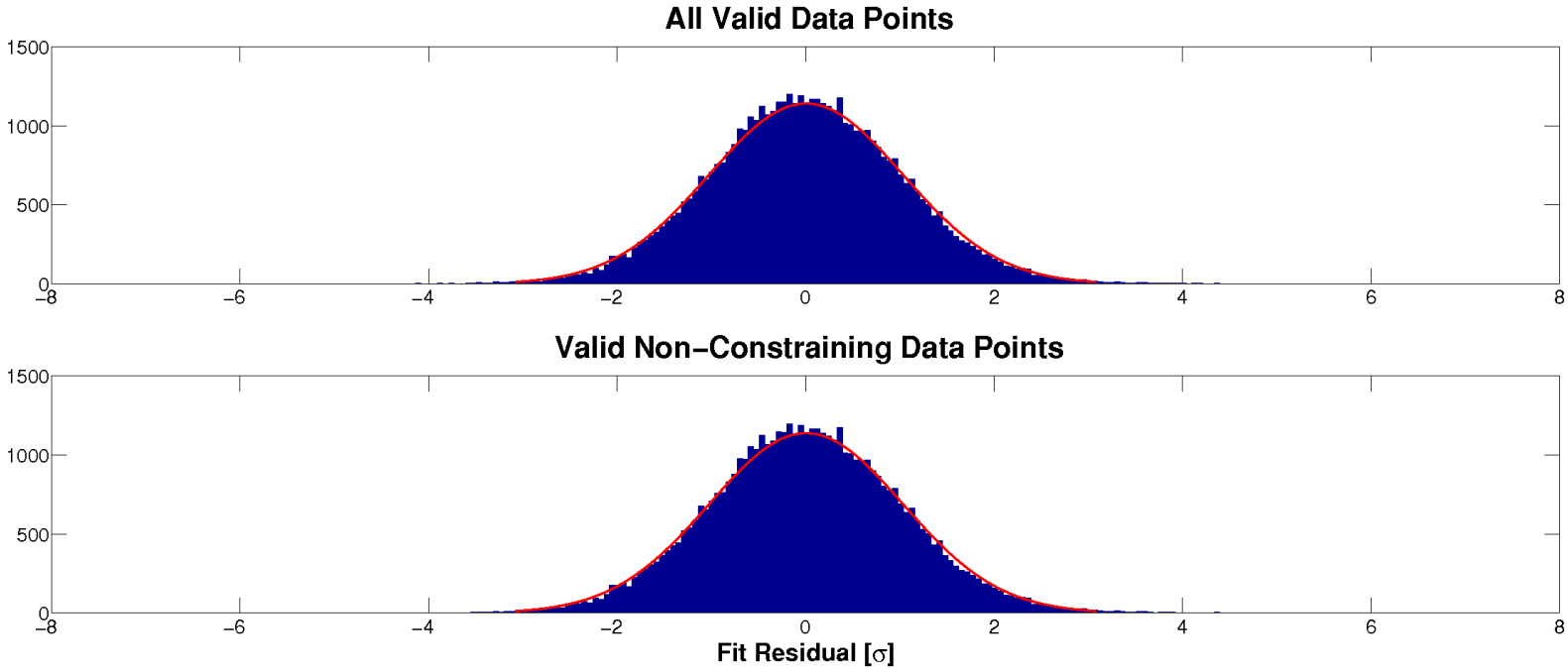
Folded flux time series for KeplerId 10552263, Planet candidate 1 in the whitened domain, zoomed on the transit. The flux data whose robust weights are larger/smaller than 0.1 are plotted in dark green/cyan dots, respectively. Values are averaged into 1 cadence wide bins. The blue dots represent the averaged values of the folded flux time series; the red dots represent the averaged values of the fitted model light curve of the odd/even transits fit; the green dots are the averaged folded fit residuals, vertically offset for clarity. Magenta dots are the averaged values of the folded flux time series, with a phase shift of 0.5 relative to the blue dots, vertically offset for clarity. Odd-even transits fit completed with full convergence.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-whitened-zoomed.fig`



Robust weights distribution for KeplerId 10552263, Planet candidate 1. Top plot: all data points. Middle plot: all data points, folded per the fitted period and epoch. Bottom plot: all data points, folded and zoomed.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-robust-weights.fig`

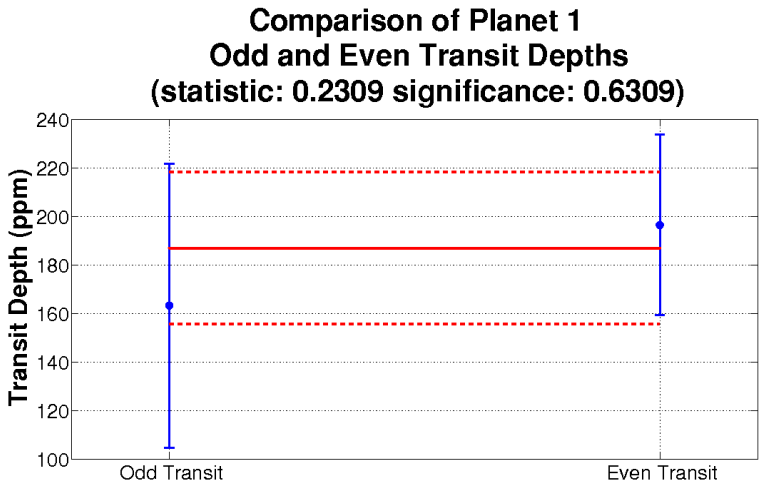


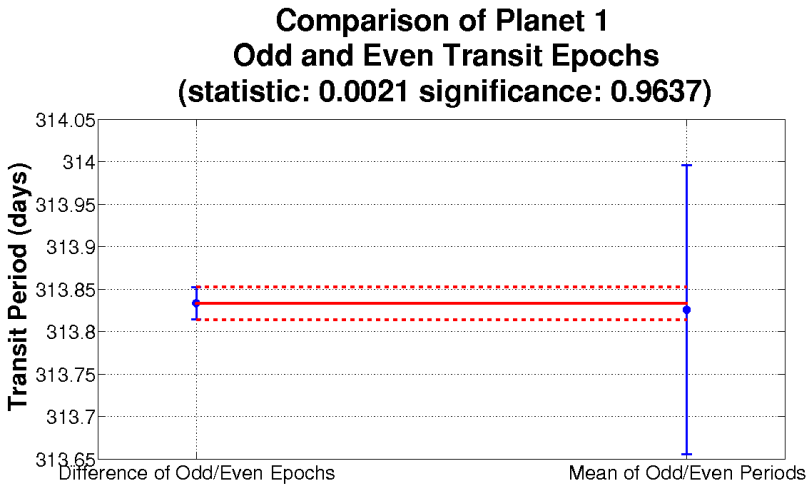
Fit residuals distribution for KeplerId 10552263, Planet candidate 1. Only the valid data points used to constrain the fit are shown here. A Gaussian fit to the histogram is shown in red.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-histo-used.fig`



Fit residuals distribution for KeplerId 10552263, Planet candidate 1. Top plot: all valid data. Bottom plot: valid data not used to constrain fit (due to distance from a transit). Gaussian fits to the histograms are shown in red.
Open `./planet-01/planet-search-and-model-fitting-results/odd-even-transits-fit/010552263-01-odd-even-histo-all-and-unused.fig`

A.3 Eclipsing Binary Discrimination Test





Top-left: Diagnostic plot of Odd/Even Transit Depth Test for keplerId 10552263, planet 1. A significance level close to 1/0 favors a transiting planet/an eclipsing binary. Top-right: Diagnostic plot of Odd/Even Transit Epoch Test for keplerId 10552263, planet 1. A significance level close to 1/0 favors a transiting planet/an eclipsing binary. Open `./planet-01/binary-discrimination-test-results/010552263-01-eclipsing-binary-discrimination-tests.fig`

Appendix B Single Event Statistics from Residual Flux

No figures named 010552263-00-residual-ses-*.fig are available.

Appendix C Alerts

Time	Severity	Message
56520.1800	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=20, component=generateDvDifferenceImages)
56520.1805	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=21, component=generateDvDifferenceImages)
56520.1808	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=26, component=generateDvDifferenceImages)
56520.1811	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=29, component=generateDvDifferenceImages)
56520.1817	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=35, component=generateDvDifferenceImages)
56520.1822	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=44, component=generateDvDifferenceImages)
56520.1826	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=47, component=generateDvDifferenceImages)
56520.1831	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=56, component=generateDvDifferenceImages)
56520.1835	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=59, component=generateDvDifferenceImages)
56520.1838	warning	Difference image cannot be generated because there were no transits for this planet candidate and target table (target=1, keplerId=10552263, planet=1, targetTable=65, component=generateDvDifferenceImages)
56520.1923	warning	All centroid and flux data gapped. 010552263-01-transit-fit-prf-centroids-07.fig not saved. (target=1, keplerId=10552263, planet=1, component=Centroid test prf)
56520.1924	warning	All centroid and flux data gapped. 010552263-01-transit-fit-prf-centroids-11.fig not saved. (target=1, keplerId=10552263, planet=1, component=Centroid test prf)
56520.1924	warning	All centroid and flux data gapped. 010552263-01-transit-fit-prf-centroids-15.fig not saved. (target=1, keplerId=10552263, planet=1, component=Centroid test prf)
56520.1949	warning	All centroid and flux data gapped. 010552263-01-transit-fit-fluxWeighted-centroids-07.fig not saved. (target=1, keplerId=10552263, planet=1, component=Centroid test fluxWeighted)
56520.1949	warning	All centroid and flux data gapped. 010552263-01-transit-fit-fluxWeighted-centroids-11.fig not saved. (target=1, keplerId=10552263, planet=1, component=Centroid test fluxWeighted)
56520.1949	warning	All centroid and flux data gapped. 010552263-01-transit-fit-fluxWeighted-centroids-15.fig not saved. (target=1, keplerId=10552263, planet=1, component=Centroid test fluxWeighted)
56520.1950	warning	Pixel correlation test is disabled (target=1, keplerId=10552263, component=Pixel correlation test)
56520.1950	warning	Statistical bootstrap is disabled (target=1, keplerId=10552263, component=bootstrap)