

KIC 006119154

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
006119154-01	OBS	No	373.845050	304.804536	1420.8	23.526	8.5	8.3	0.89	5926	3.54	0.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006119154-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—CENT_FEW_DIFFS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

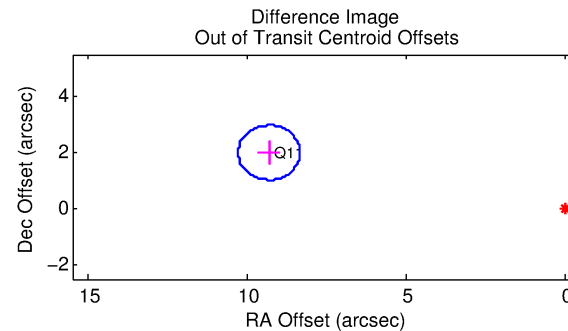
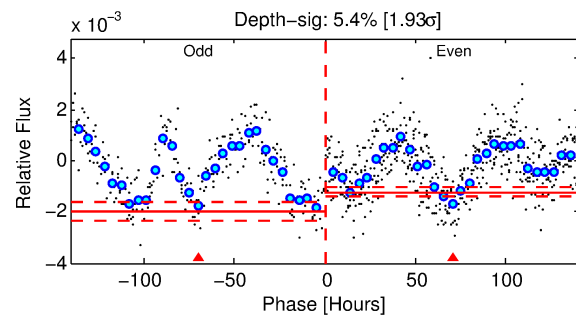
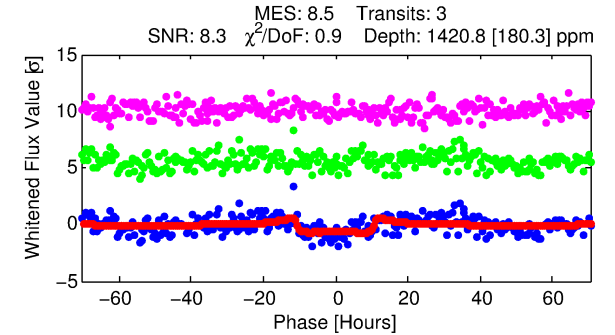
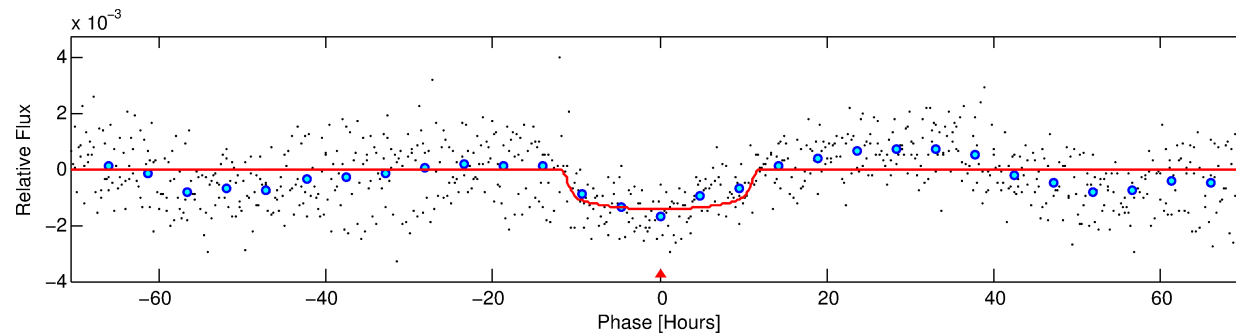
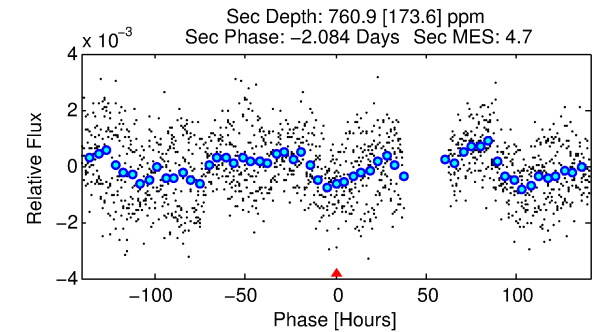
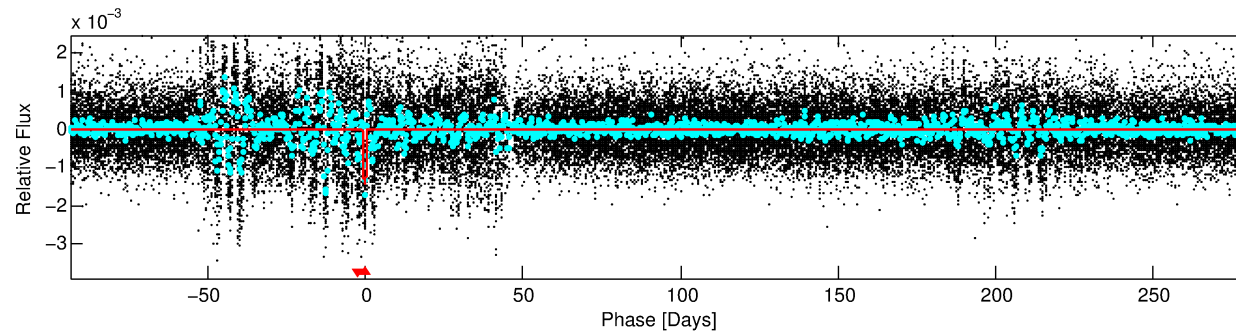
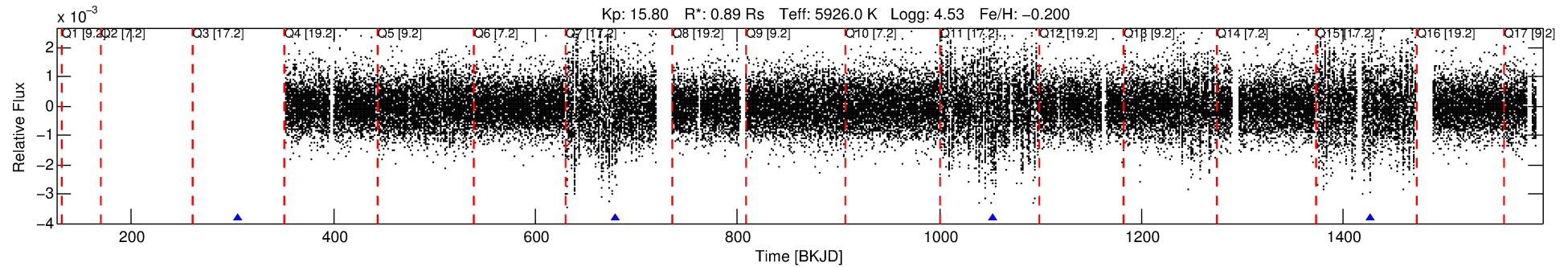
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006119154-01

No Significant Match Found

DV One-Page Summary

KIC: 6119154 Candidate: 1 of 1 Period: 373.845 d



DV Fit Results:

Period = 373.84505 [0.01497] d
Epoch = 304.8045 [0.0315] BKJD
Rp/R* = 0.0366 [0.0044]
a/R* = 95.92 [43.44]
b = 0.67 [0.37]
Seff = 0.86 [0.35]
Teq = 245 [25] K
Rp = 3.54 [1.17] Re
a = 1.0080 [0.2640] AU
Ag = 33870.72 [17218.85] [1.97σ]
Teff = 5144 [464] K [10.55σ]

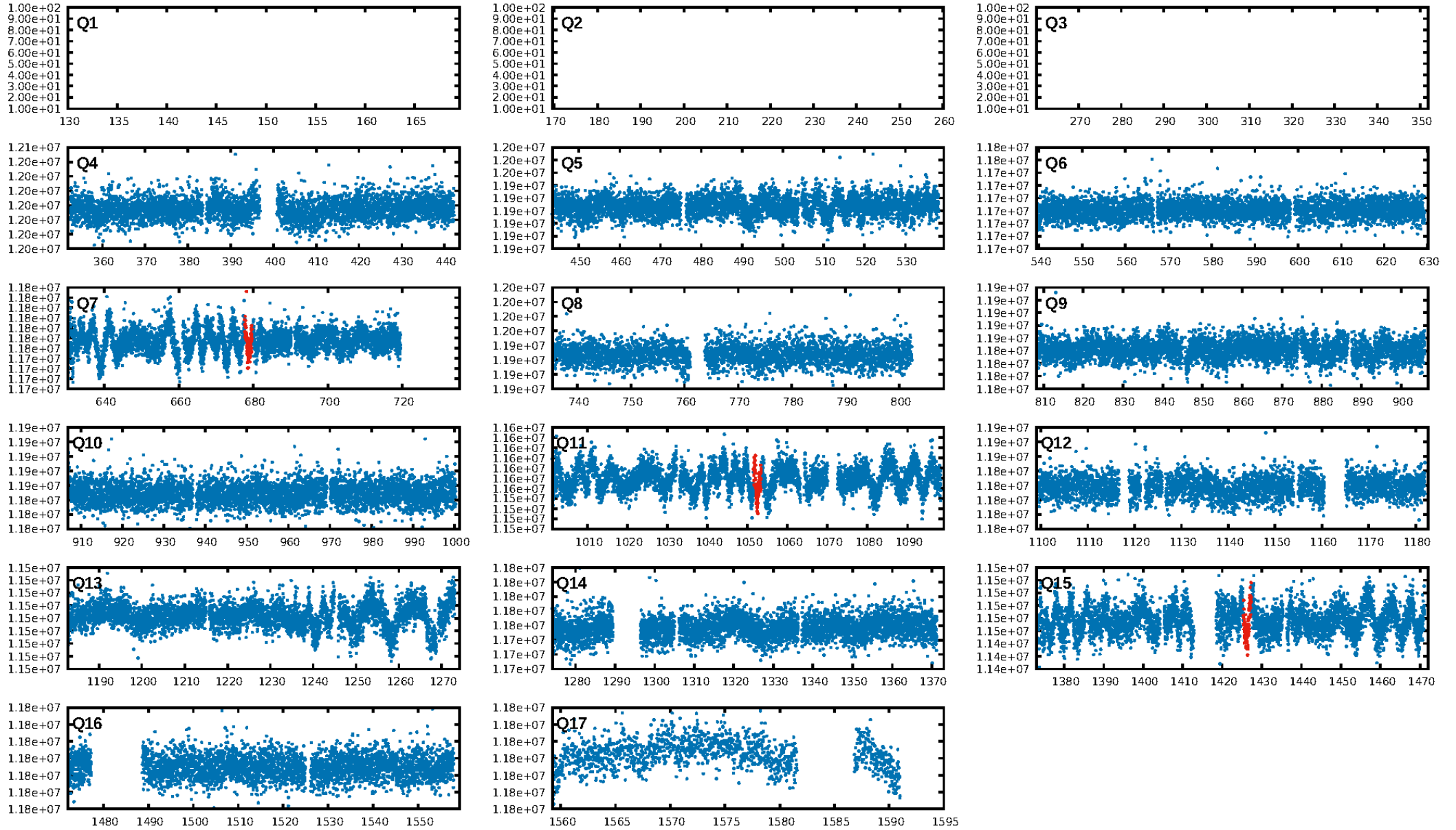
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 32.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.38e-11
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -6.952
Centroid-sig: 3.1%
Centroid-so: 2.220 arcsec [1.33σ]
OotOffset-rm: 9.526 arcsec [29.34σ]
KicOffset-rm: 9.602 arcsec [29.60σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [3/3]

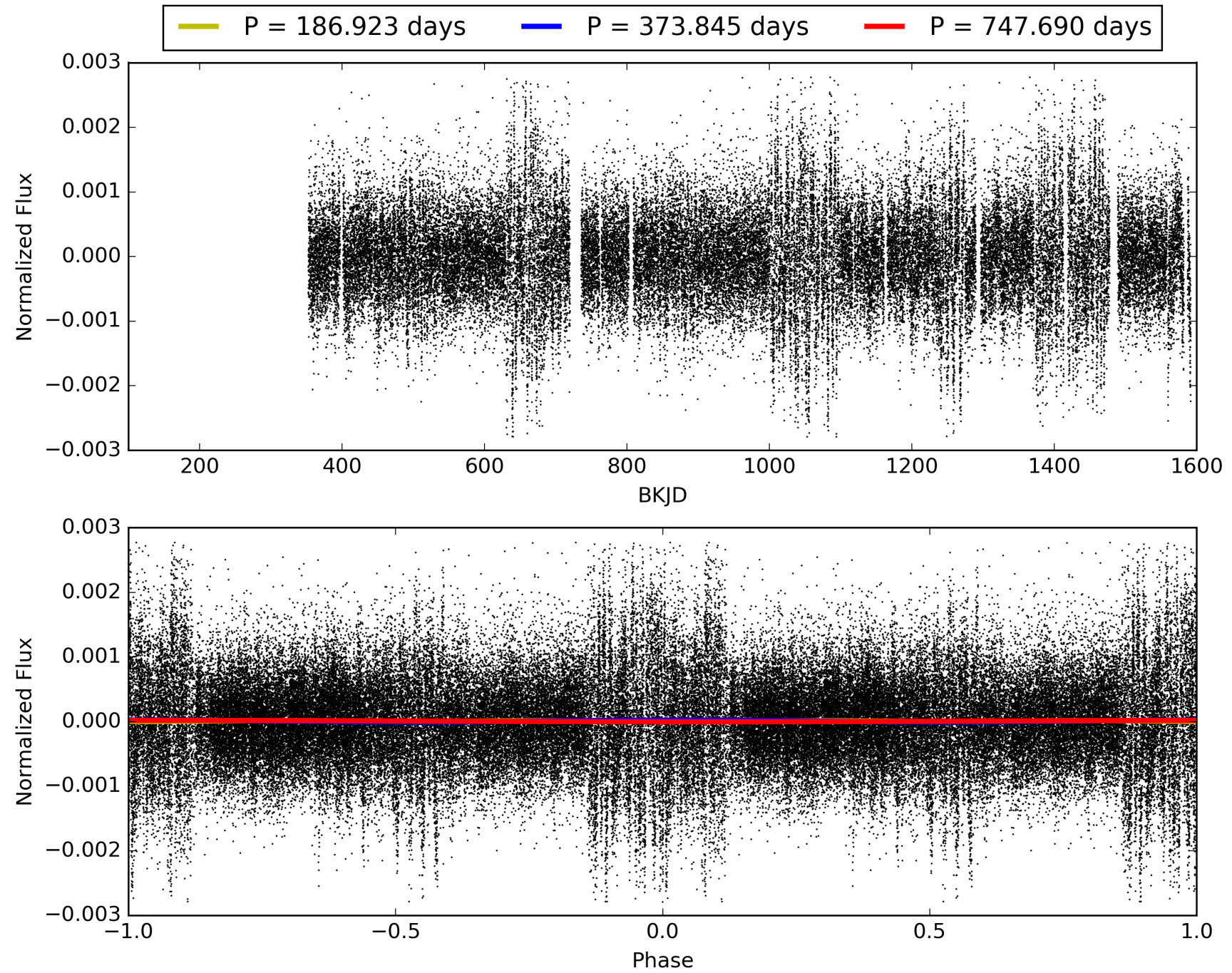
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 15:54:38 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006119154-01, PDC Light Curves

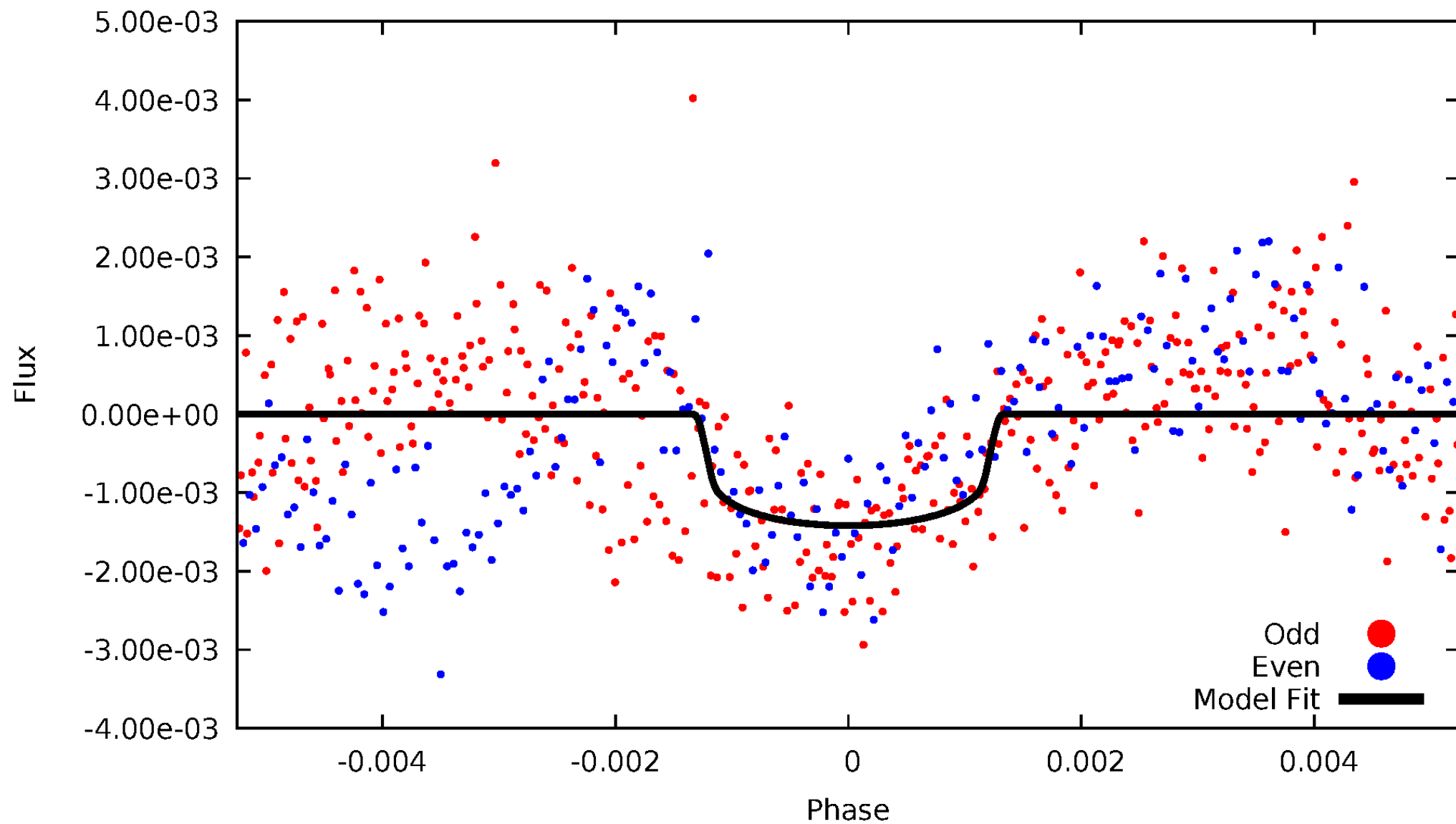


TCE 006119154-01



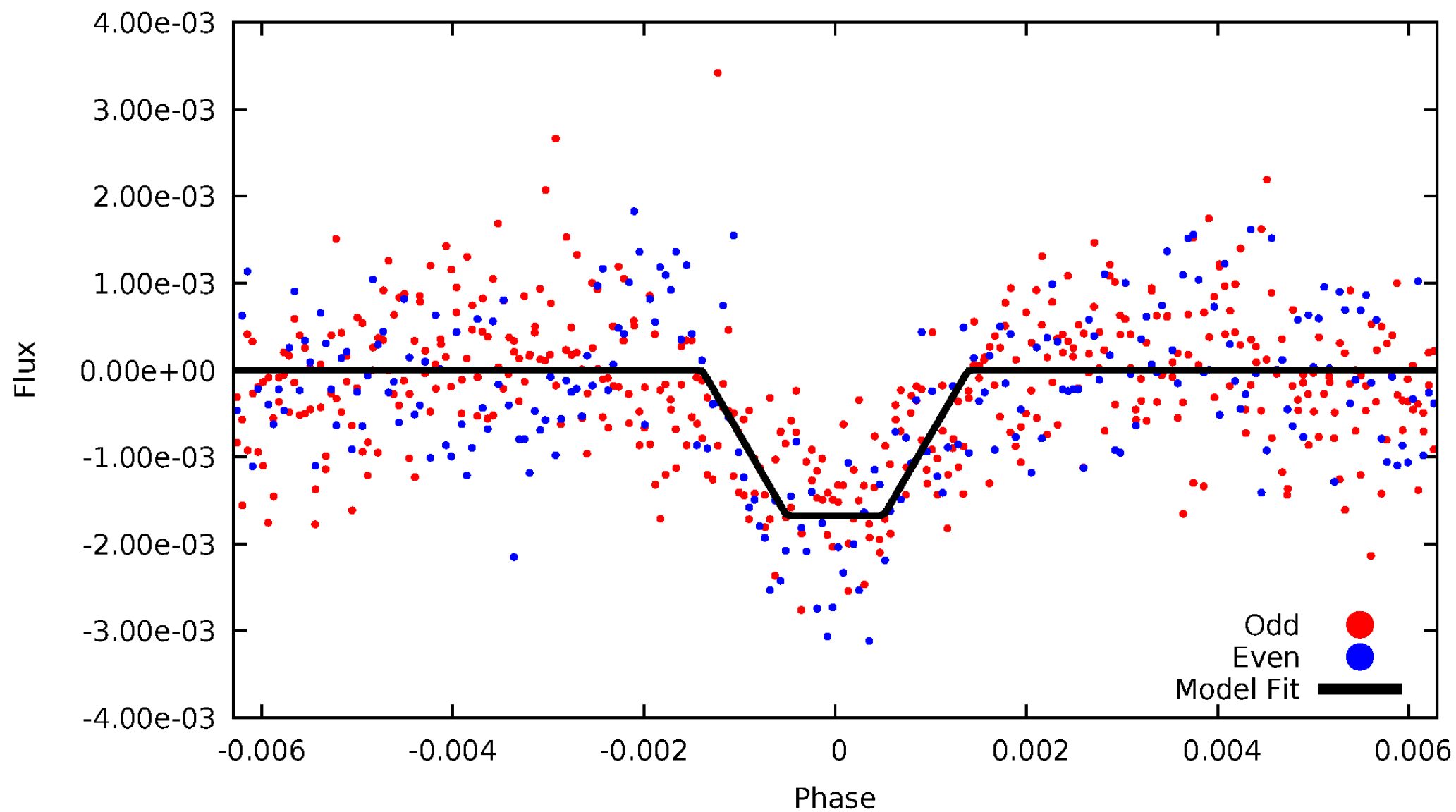
DV Odd/Even

TCE 006119154-01



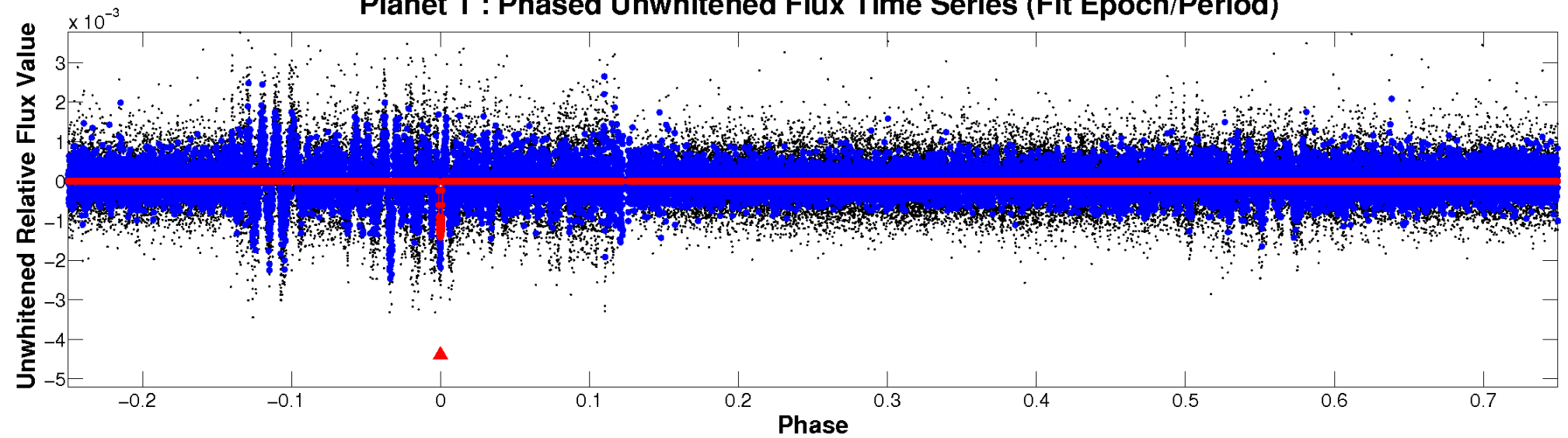
ALT Odd/Even

TCE 006119154-01

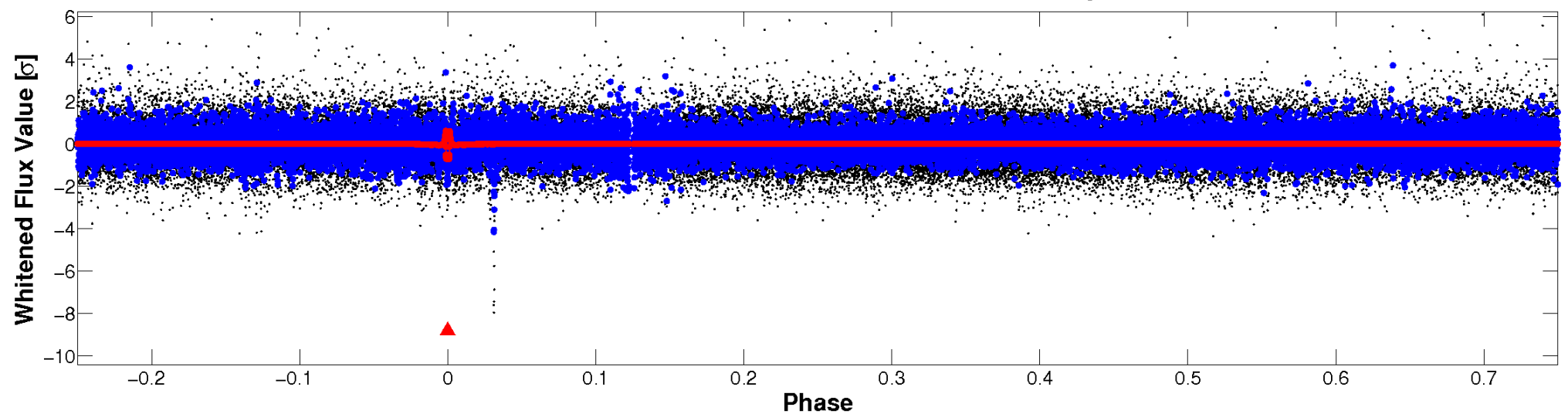


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

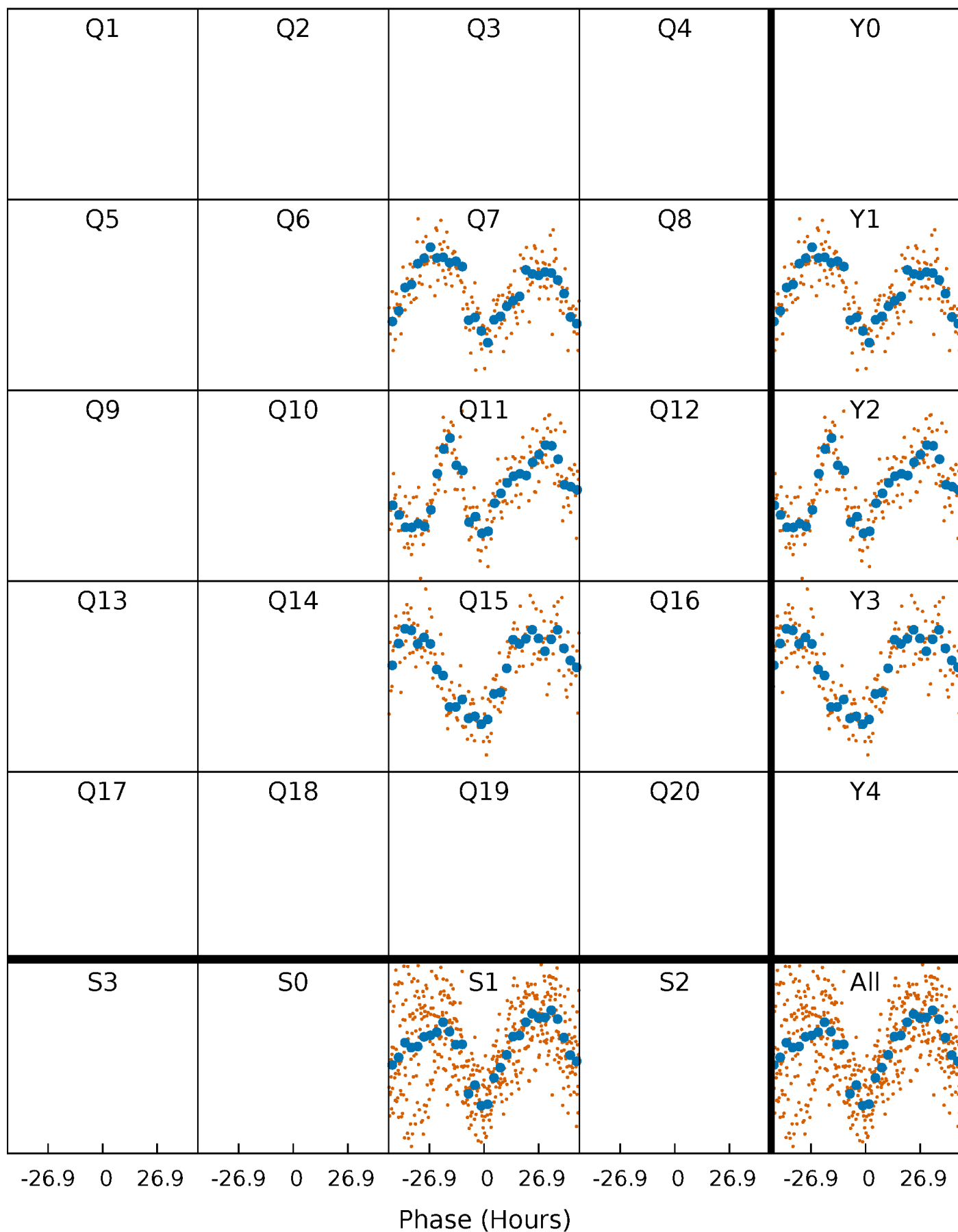


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 006119154-01 P=373.845050 Days $T_0=304.804536$ (BKJD)



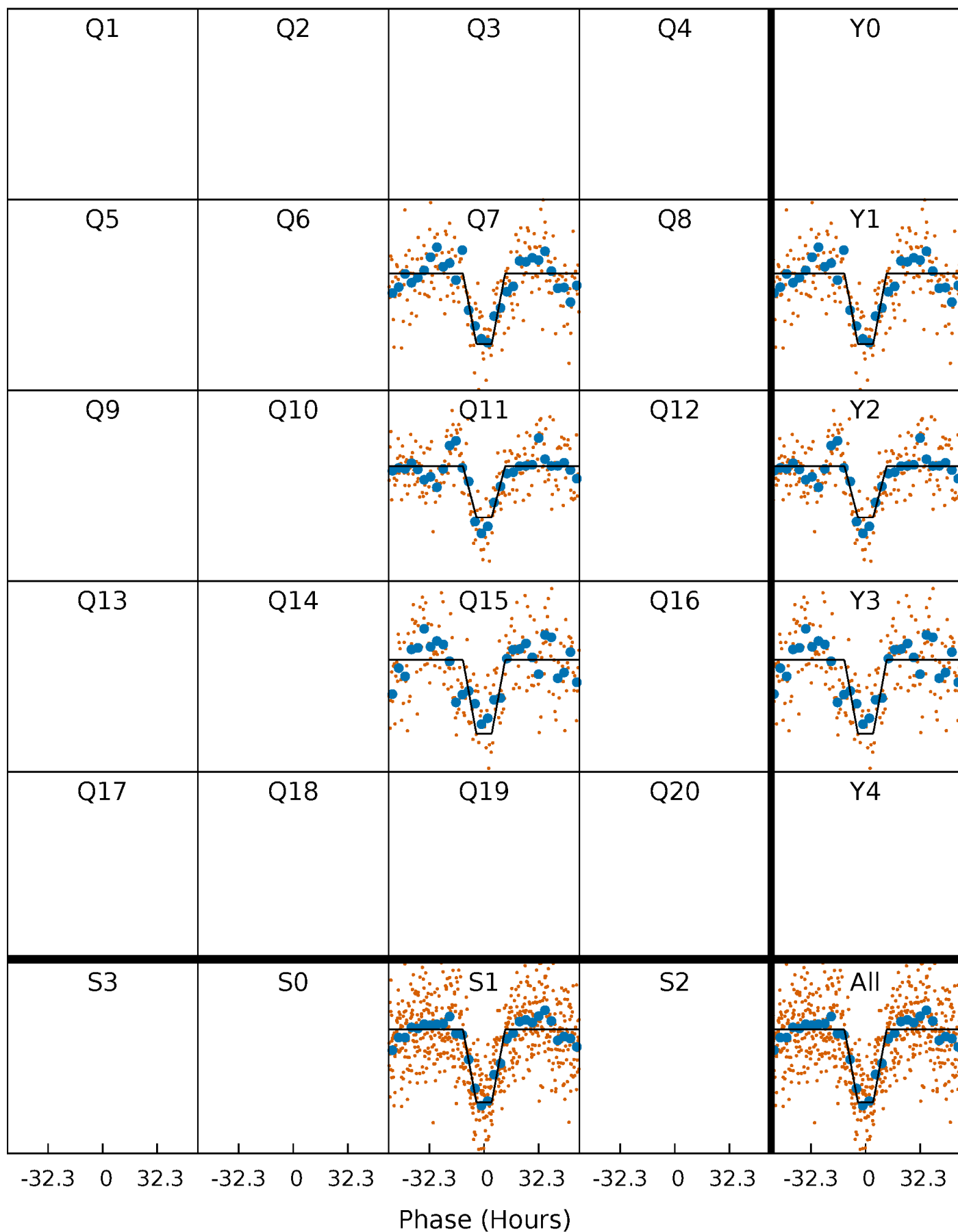
DV Quarter-Phased Transit Curves

TCE 006119154-01 P=373.845050 Days $T_0=304.804536$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

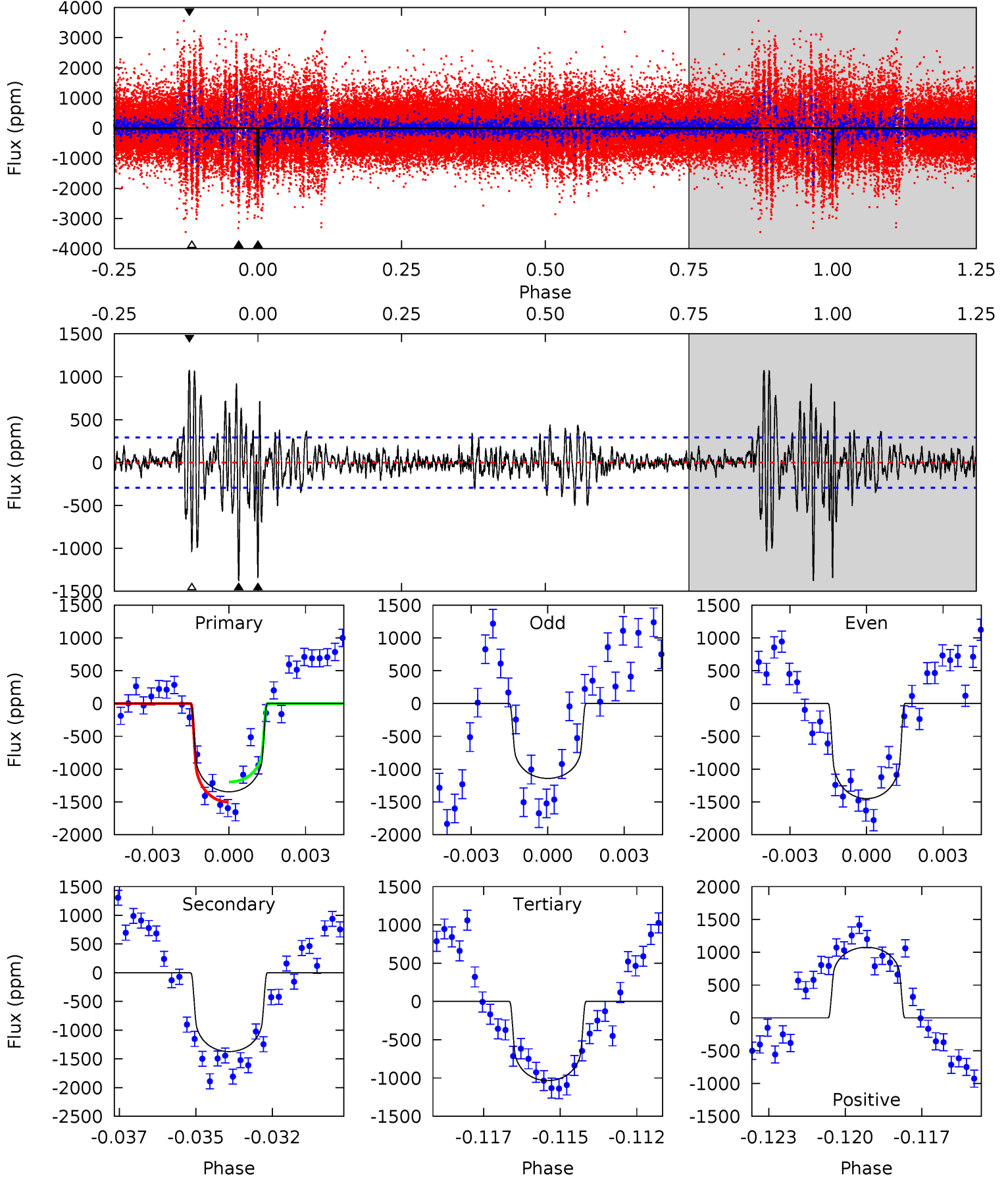
TCE 006119154-01 P=373.831980 Days $T_0=304.778776$ (BKJD)



DV Model-Shift Uniqueness Test

006119154-01, P = 373.845050 Days, E = 304.804536 Days

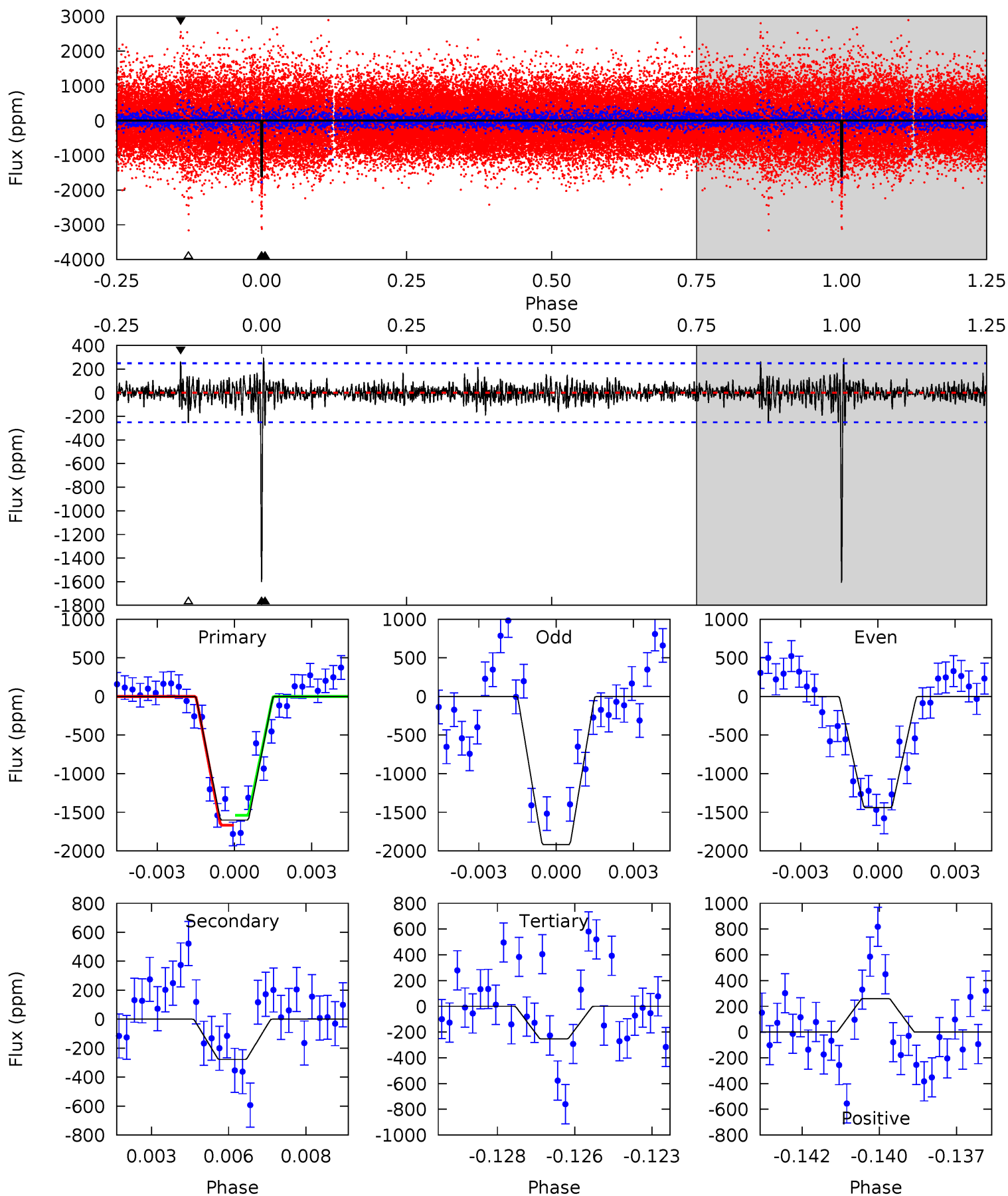
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.2	24.7	18.6	19.3	5.27	3.00	3.47	5.61	4.87	6.09	5.35	2.65	1.15	0.44	2.75



Alt Model-Shift Uniqueness Test

006119154-01, P = 373.831980 Days, E = 304.778776 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.7	5.86	5.35	5.48	5.27	2.99	1.10	28.4	28.3	0.51	0.38	4.83	1.05	0.15	1.34



Stellar Parameters For KIC 006119154

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5926^{+186}_{-207}	$4.532^{+0.037}_{-0.212}$	$-0.200^{+0.300}_{-0.300}$	$0.887^{+0.273}_{-0.091}$	$0.978^{+0.119}_{-0.131}$	$1.971^{+0.424}_{-1.071}$
	+3%/-3%	+1%/-5%	+150%/-150%	+31%/-10%	+12%/-13%	+22%/-54%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006119154-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1373 ± 56	$3.75^{+0.71}_{-0.57}$	351^{+25}_{-17}	5950^{+447}_{-380}	52958^{+19917}_{-14178}
Alt.	-278 ± 47	$4.16^{+0.77}_{-0.60}$	353^{+25}_{-19}	4071^{+248}_{-230}	8615^{+3462}_{-2604}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming A=0.3)

A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

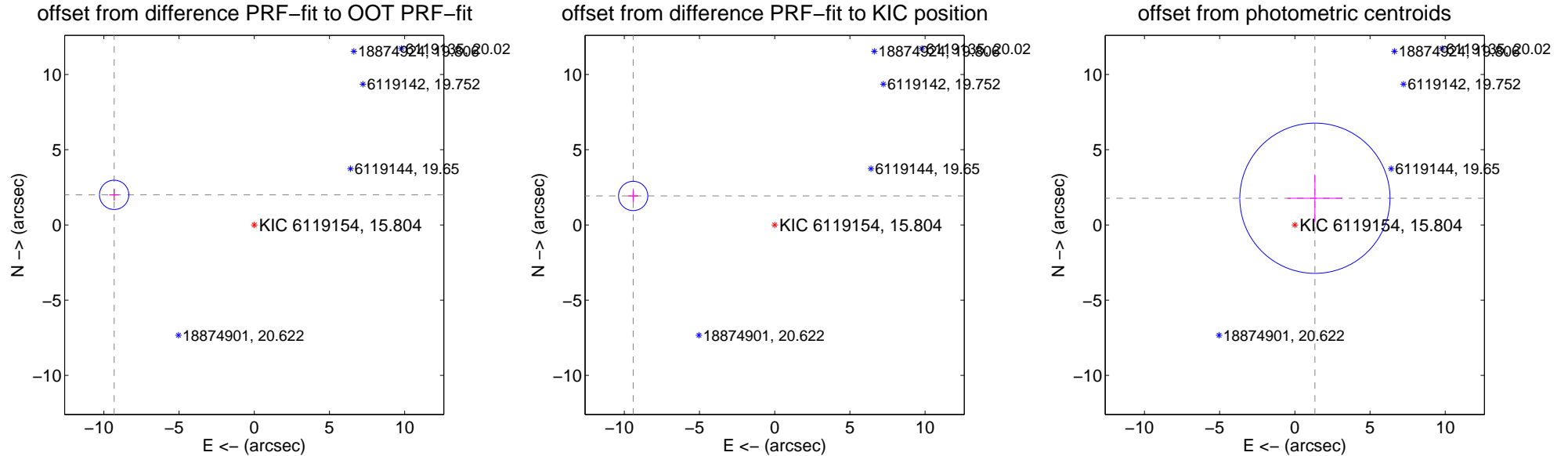
DV Centroid Data

Supplemental centroid analysis for 006119154-01. Kepler magnitude: 15.80. Transit SNR 8.33

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	9.526 \pm 0.325	29.34	9.314 \pm 0.322	2.000 \pm 0.382
PRF-fit source offset from KIC position	9.602 \pm 0.324	29.60	9.407 \pm 0.322	1.927 \pm 0.382
photometric centroid source offset	2.22 \pm 1.66	1.33	-1.33 \pm 1.82	1.77 \pm 1.57

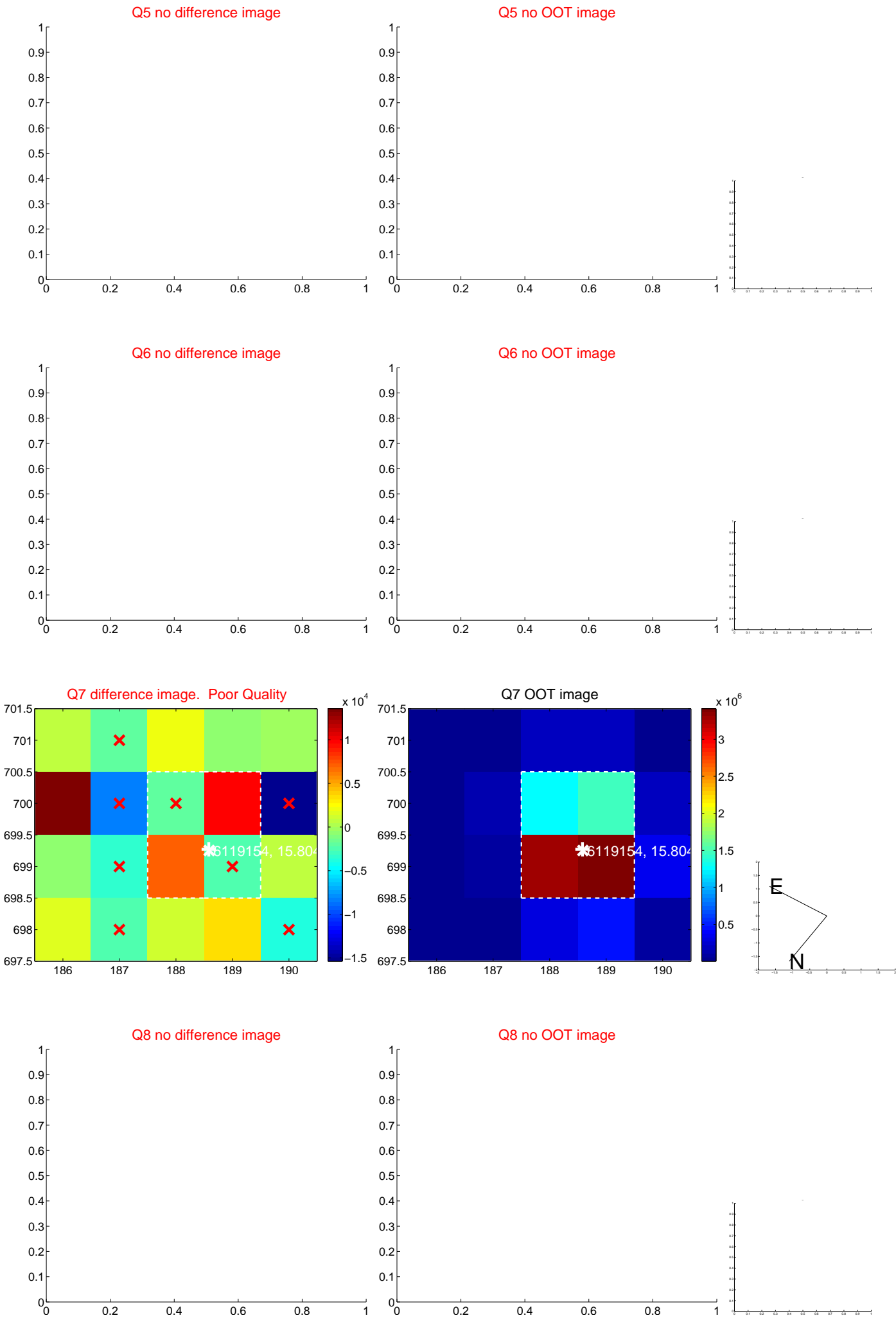


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000 are from the UKIRT catalog.

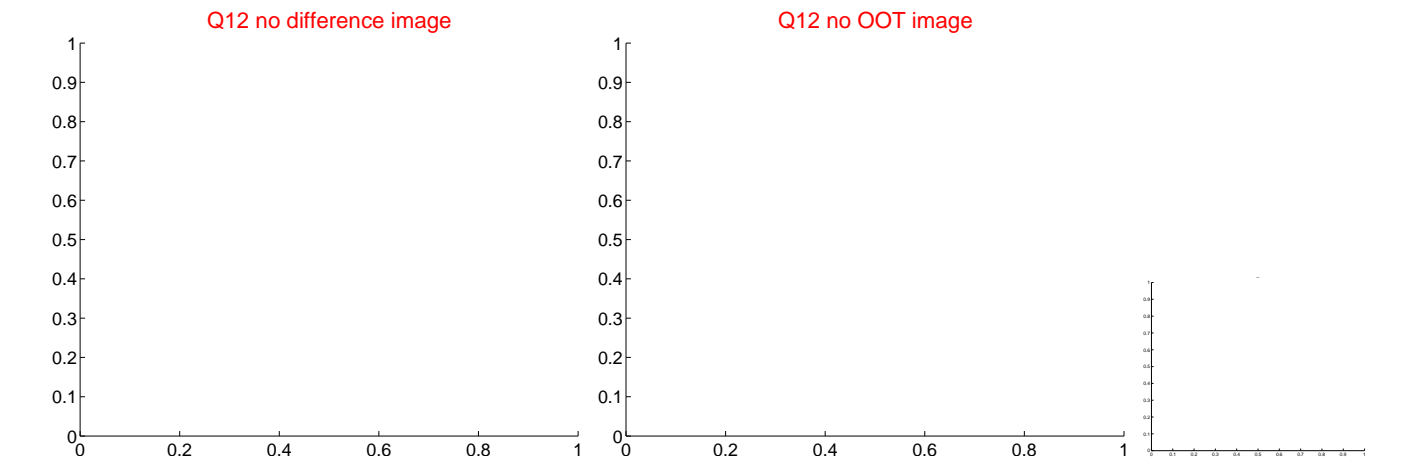
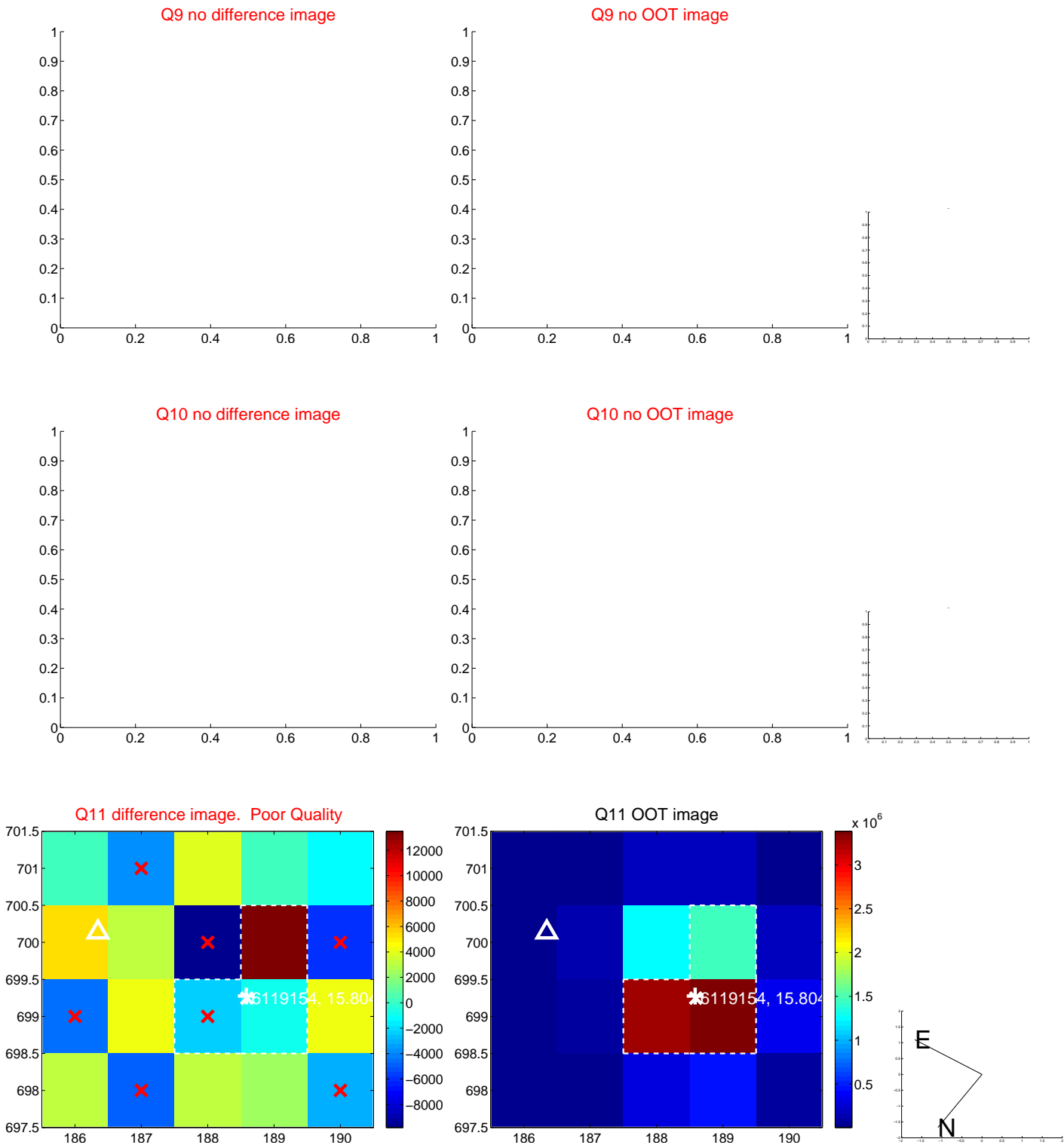
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



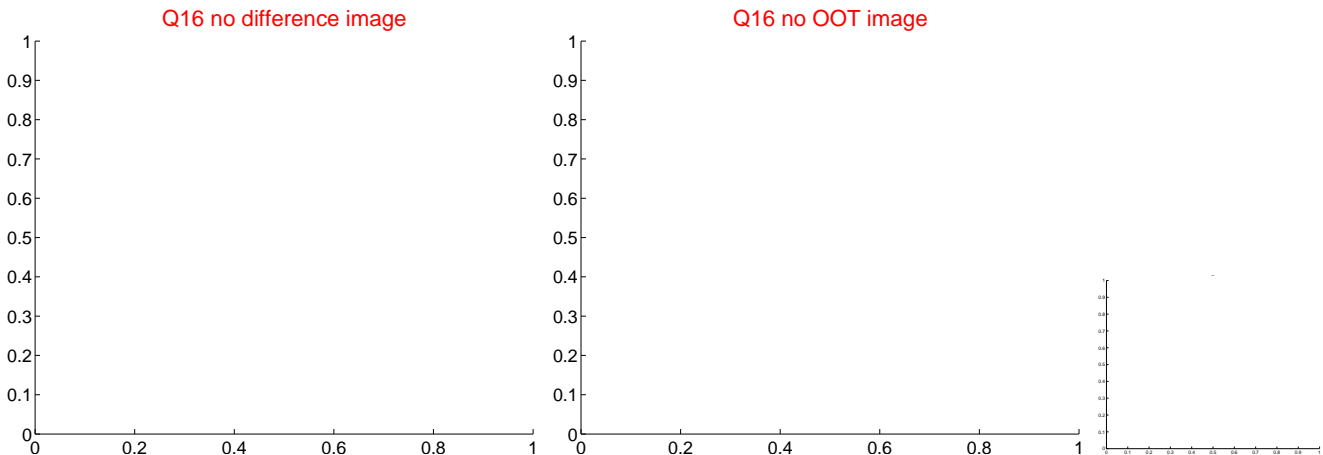
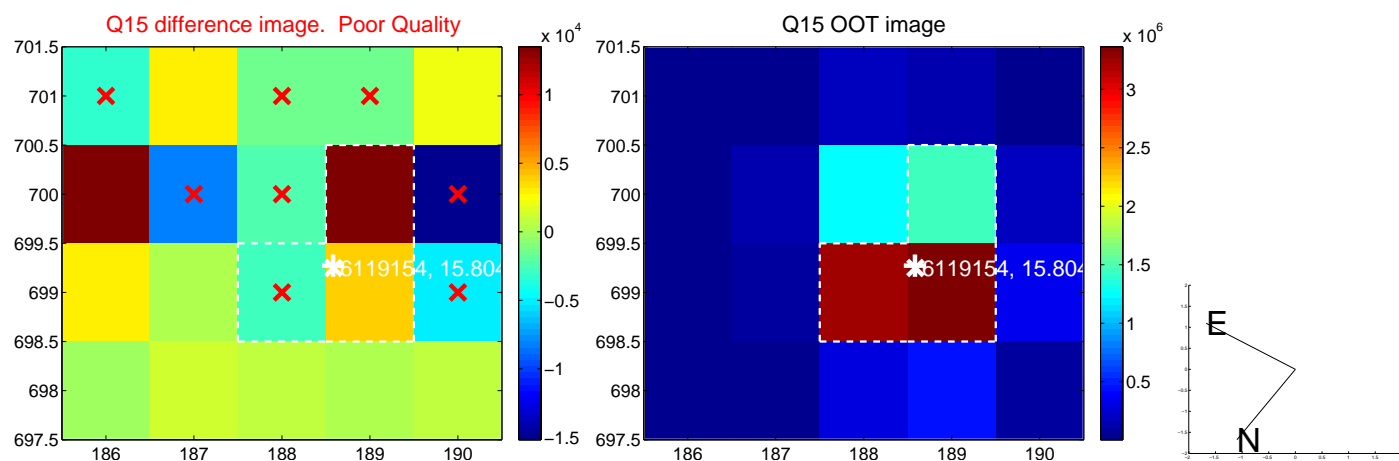
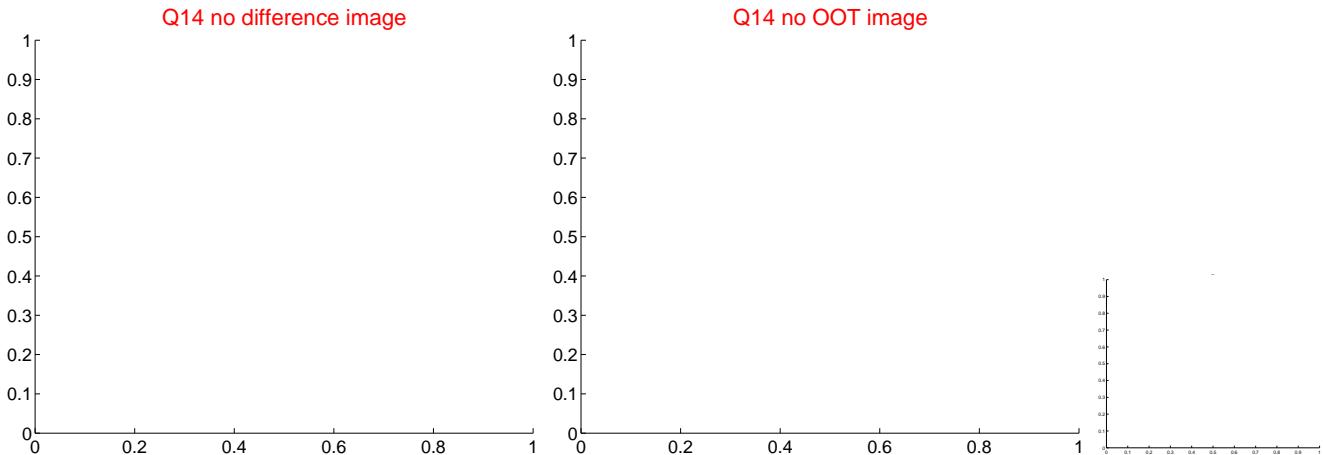
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



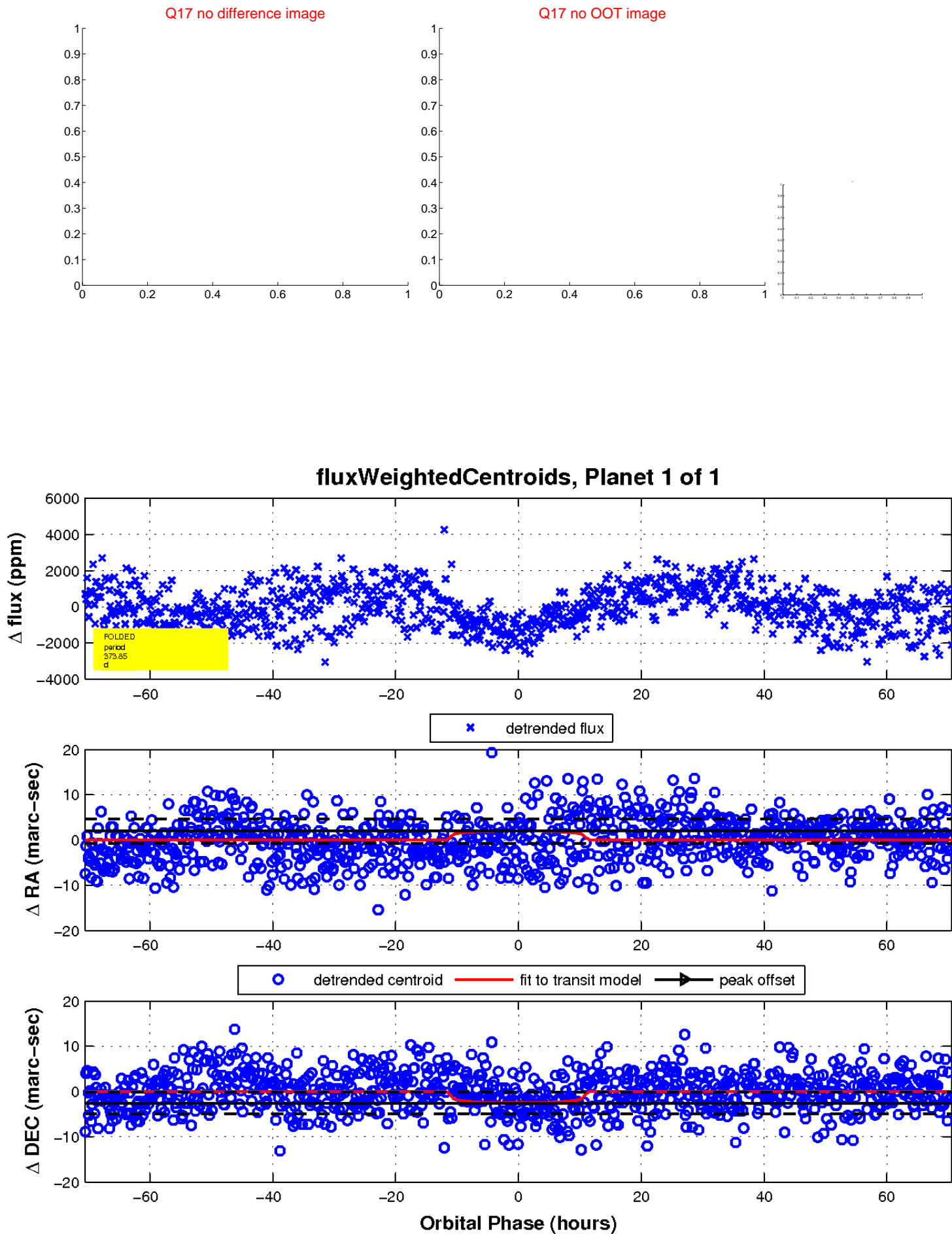
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

