

KIC 011804800

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})
011804800-01	OBS	No	303.668177	271.849673	196.8	21.215	9.4	10.5	1.95	6143	2.83	5.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011804800-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

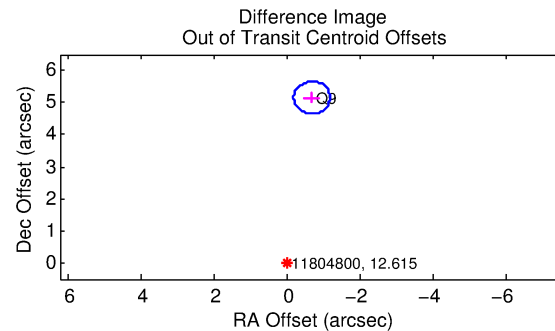
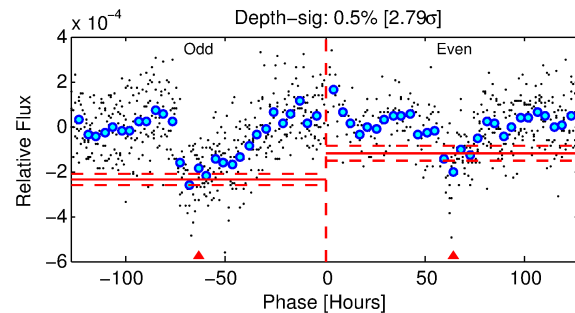
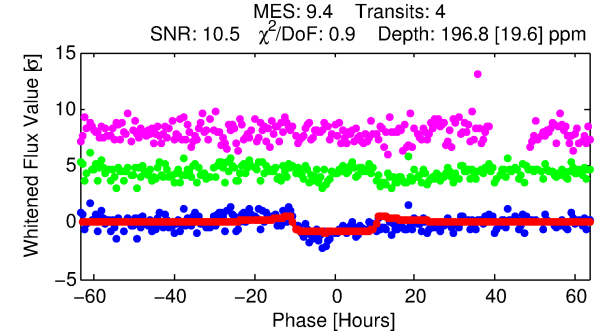
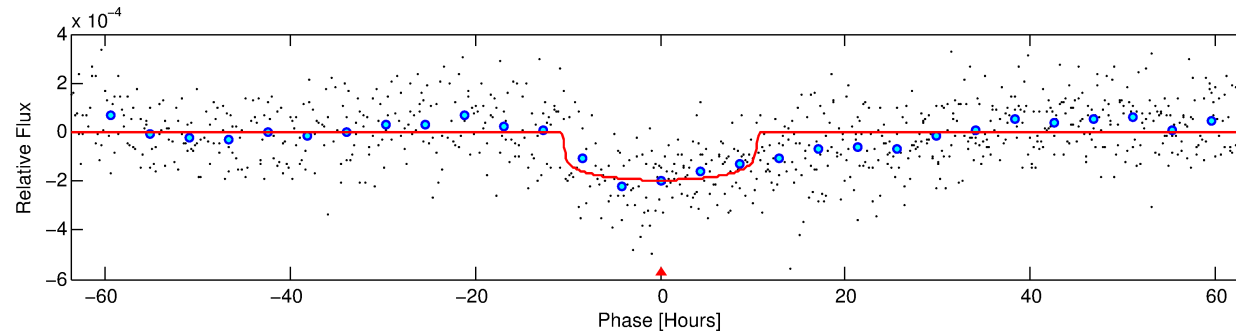
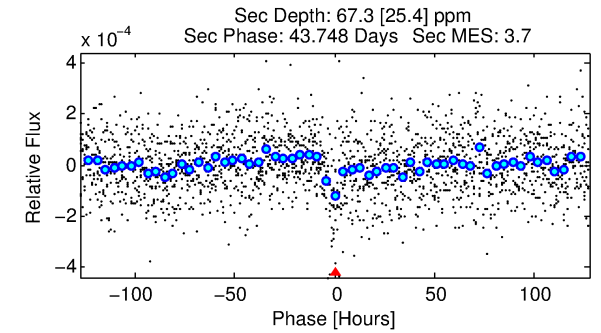
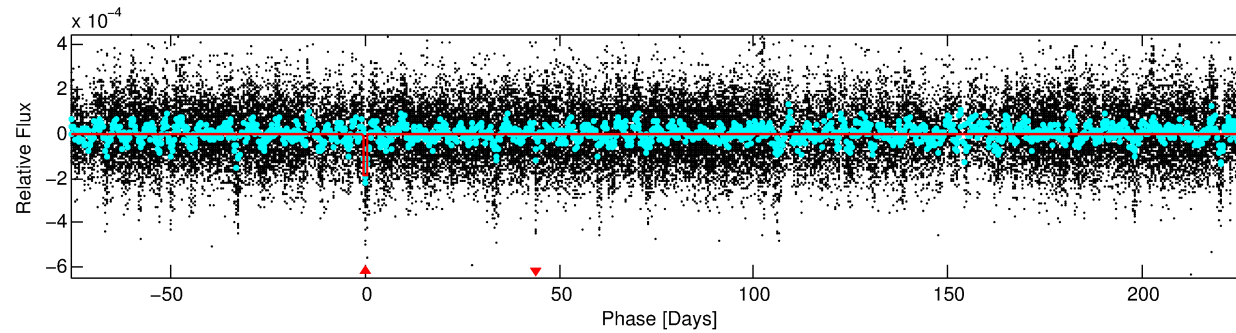
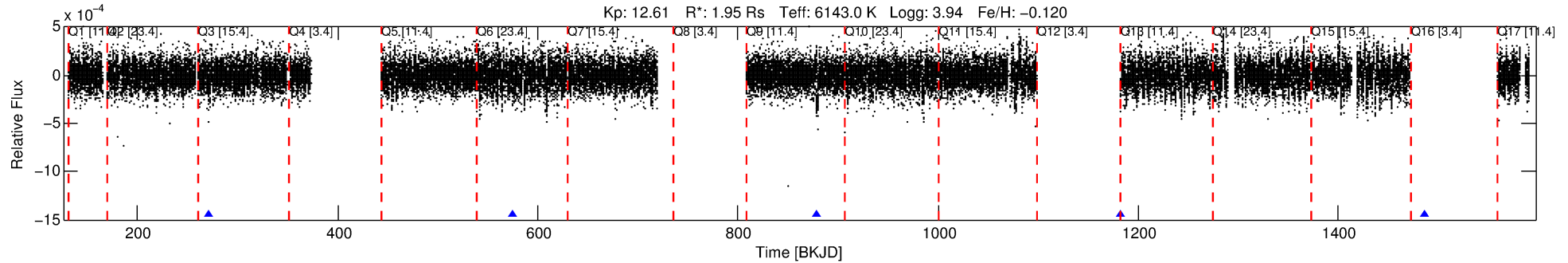
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011804800-01

No Significant Match Found

DV One-Page Summary

KIC: 11804800 Candidate: 1 of 1 Period: 303.668 d



DV Fit Results:

Period = 303.66818 [0.00792] d
Epoch = 271.8497 [0.0134] BKJD
Rp/R* = 0.0133 [0.0048]
a/R* = 92.66 [166.40]
b = 0.56 [2.24]
Seff = 5.50 [2.60]
Teq = 390 [46] K
Rp = 2.83 [1.37] Re
a = 0.9377 [0.2753] AU
Ag = 4061.24 [3816.66] [1.06σ]
Teffp = 4819 [996] K [4.44σ]

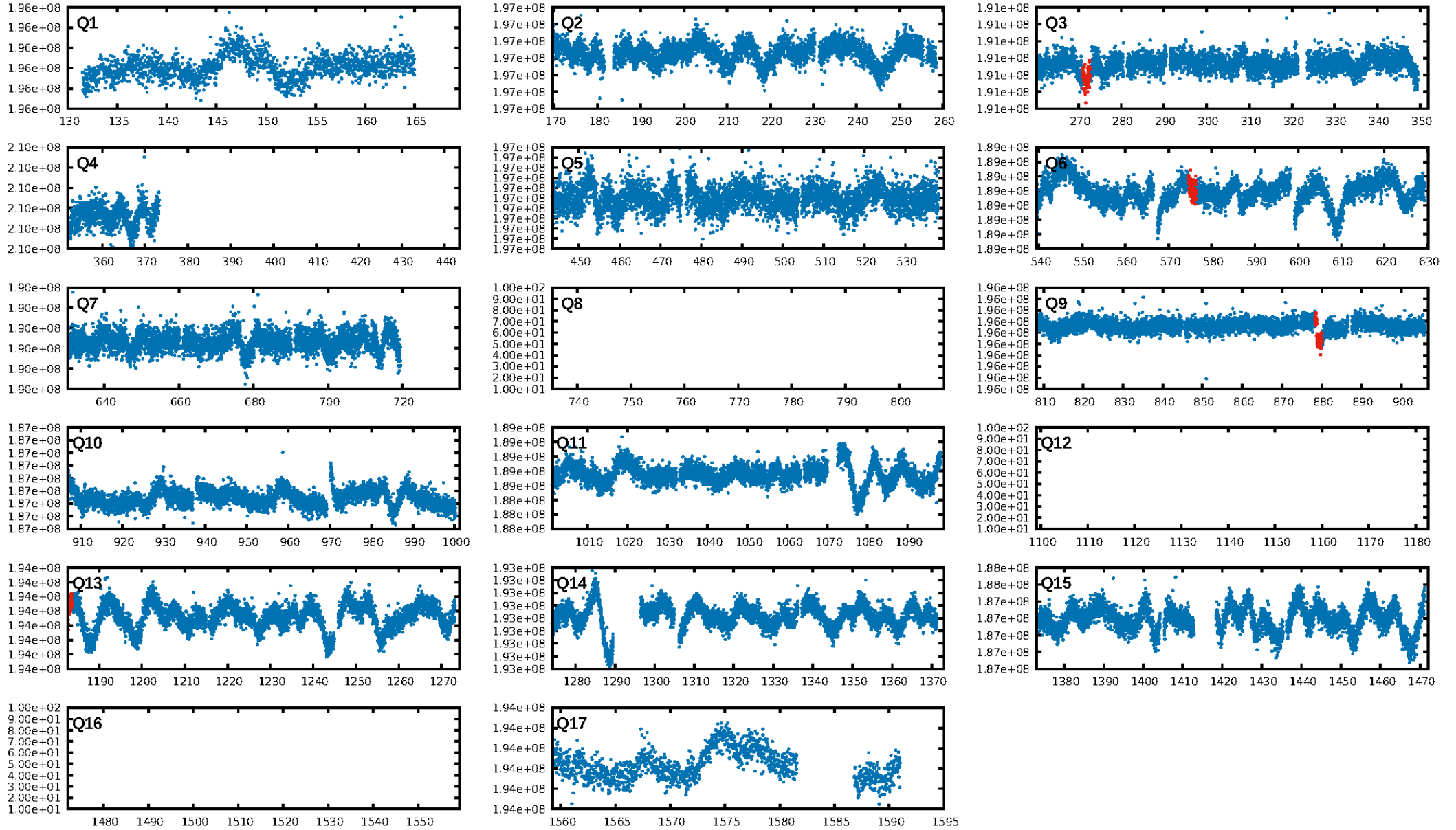
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.03e-17
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.952
Centroid-sig: 4.8%
Centroid-so: 1.959 arcsec [2.22σ]
OotOffset-rm: 5.199 arcsec [31.31σ]
KicOffset-rm: 5.397 arcsec [32.52σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [2/2]

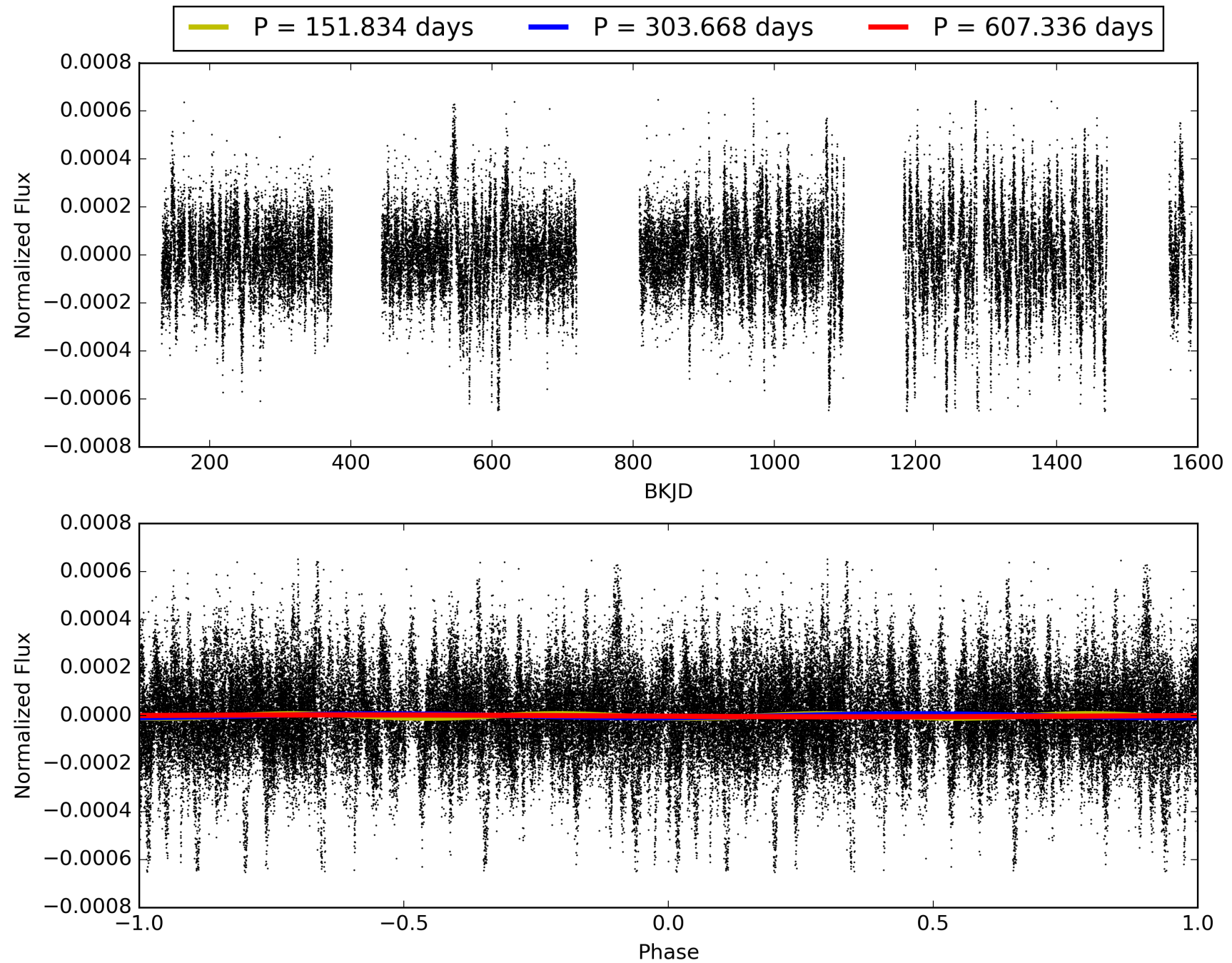
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:29:40 Z

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

TCE 011804800-01, PDC Light Curves

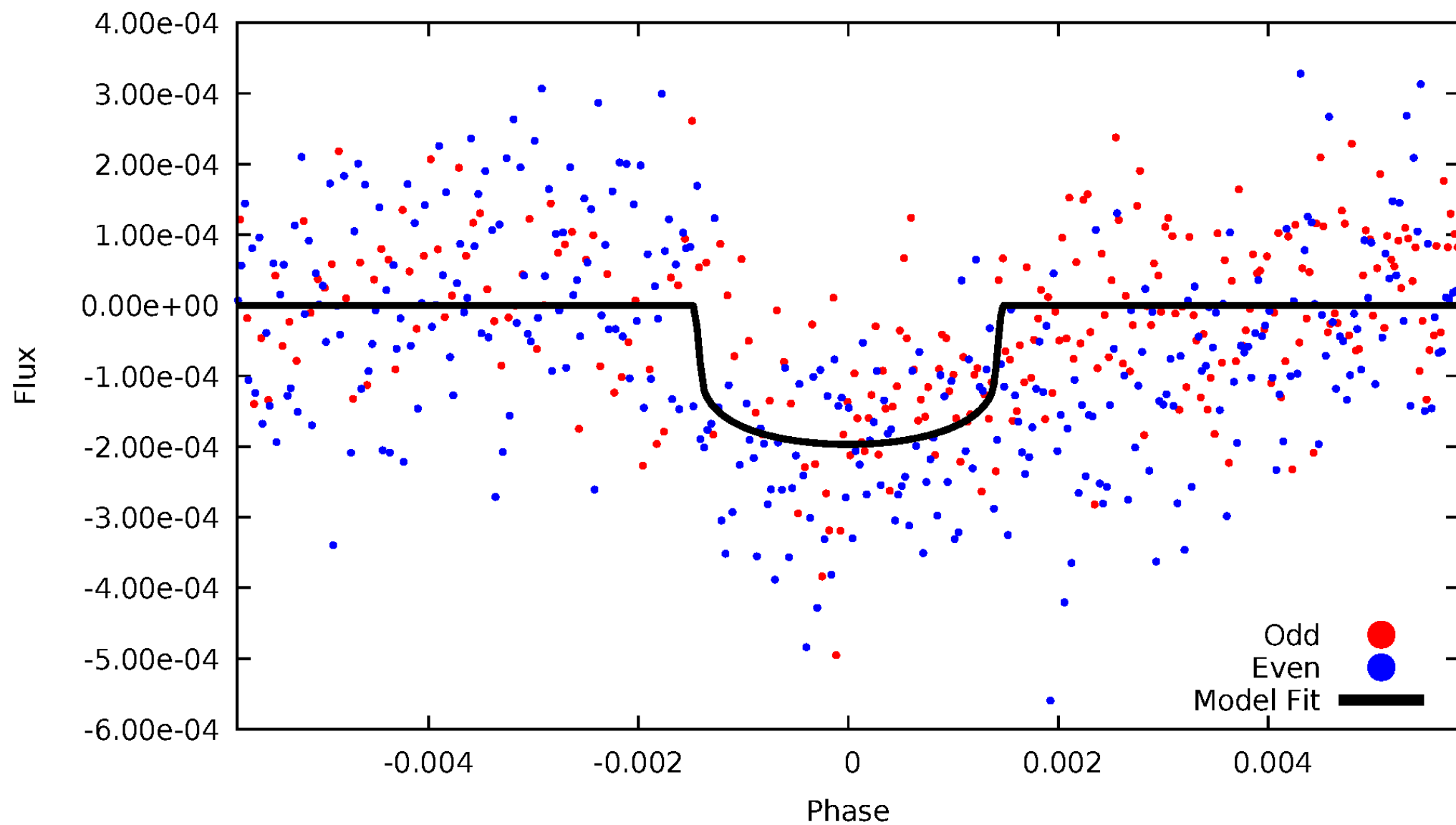


TCE 011804800-01



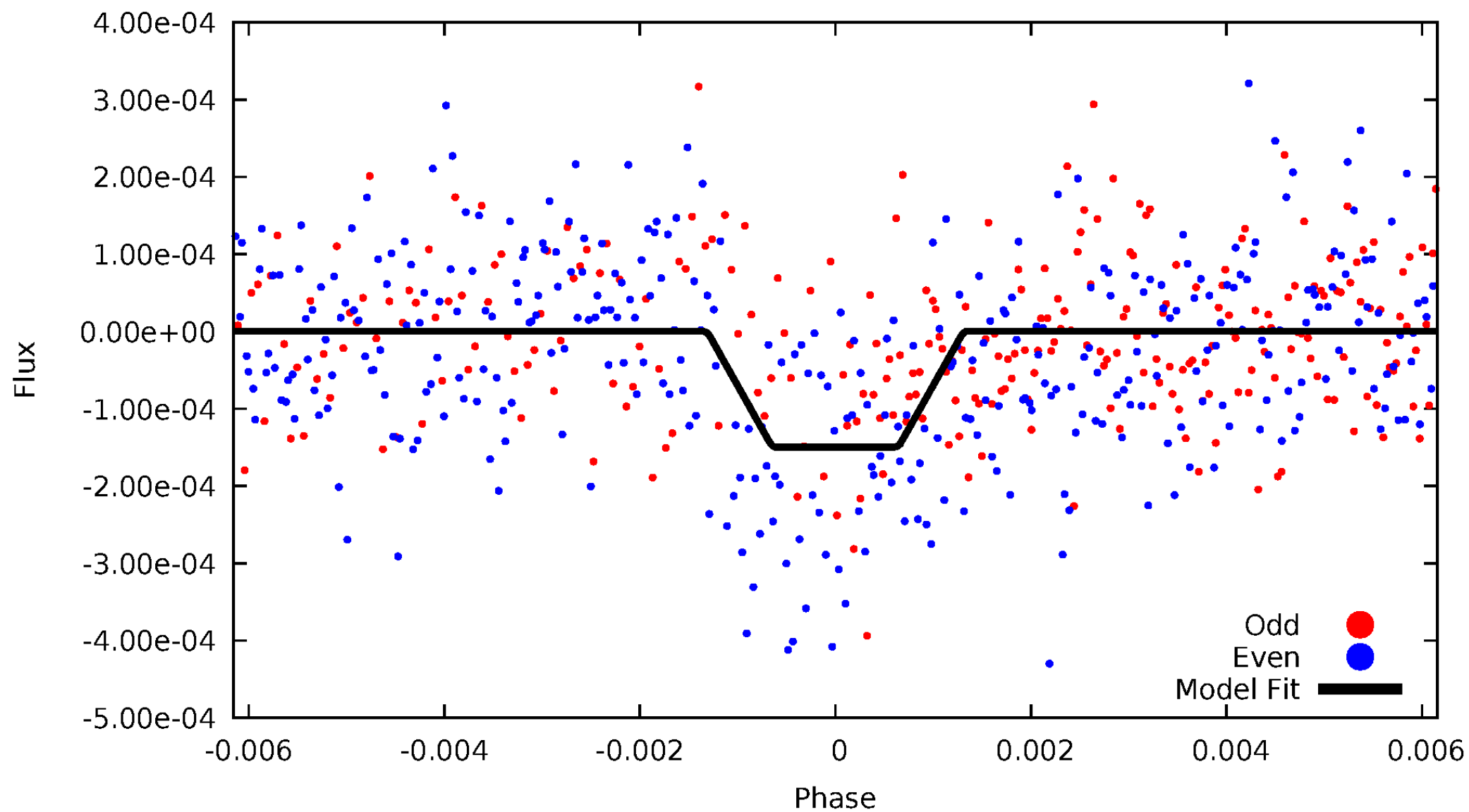
DV Odd/Even

TCE 011804800-01

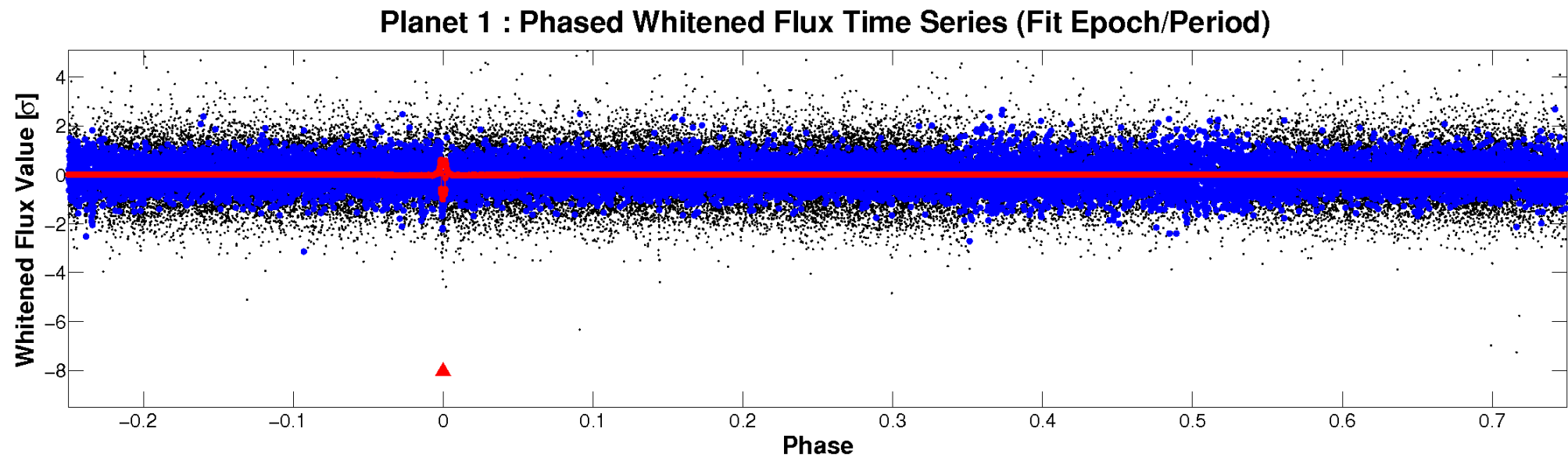
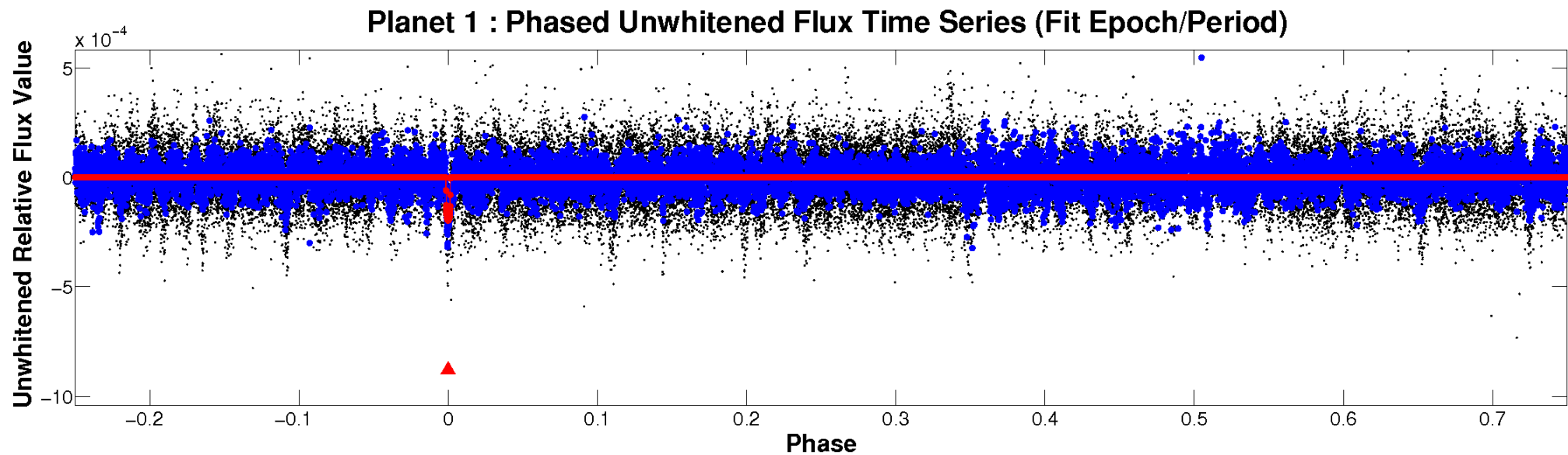


ALT Odd/Even

TCE 011804800-01

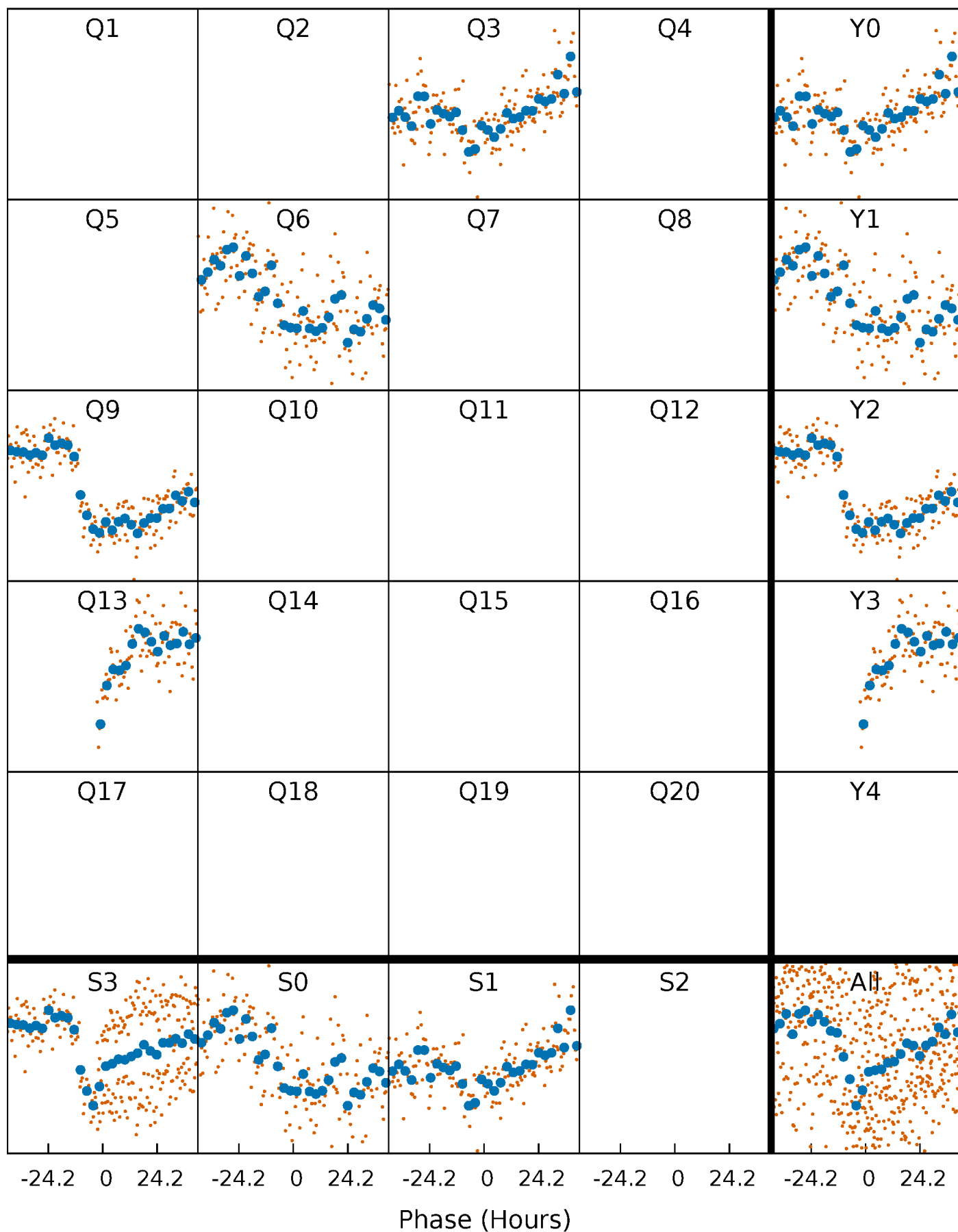


Non-Whitened Vs. Whitened Light Curve



PDC Quarter-Phased Transit Curves

TCE 011804800-01 P=303.668177 Days $T_0=271.849673$ (BKJD)



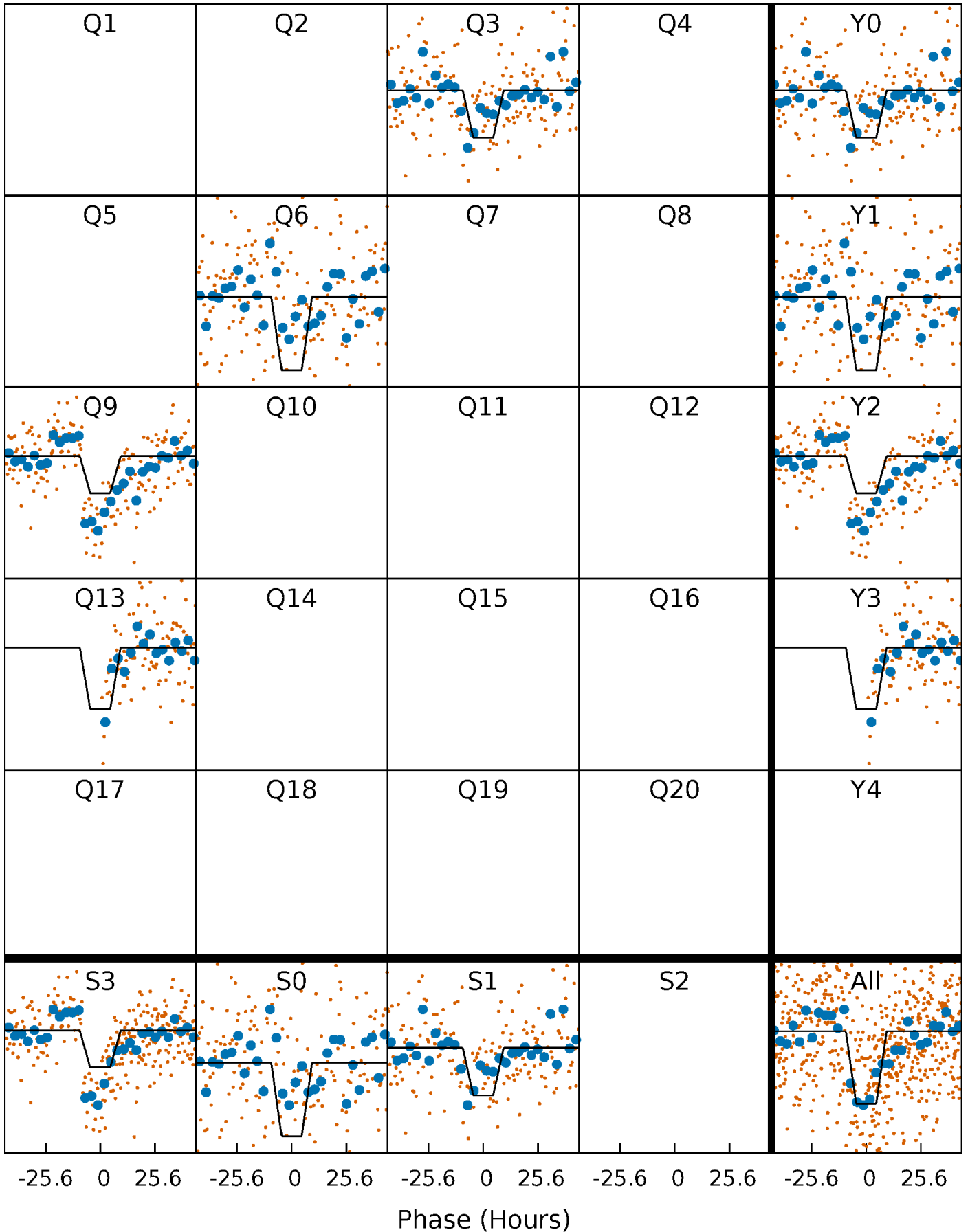
DV Quarter-Phased Transit Curves

TCE 011804800-01 P=303.668177 Days $T_0=271.849673$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

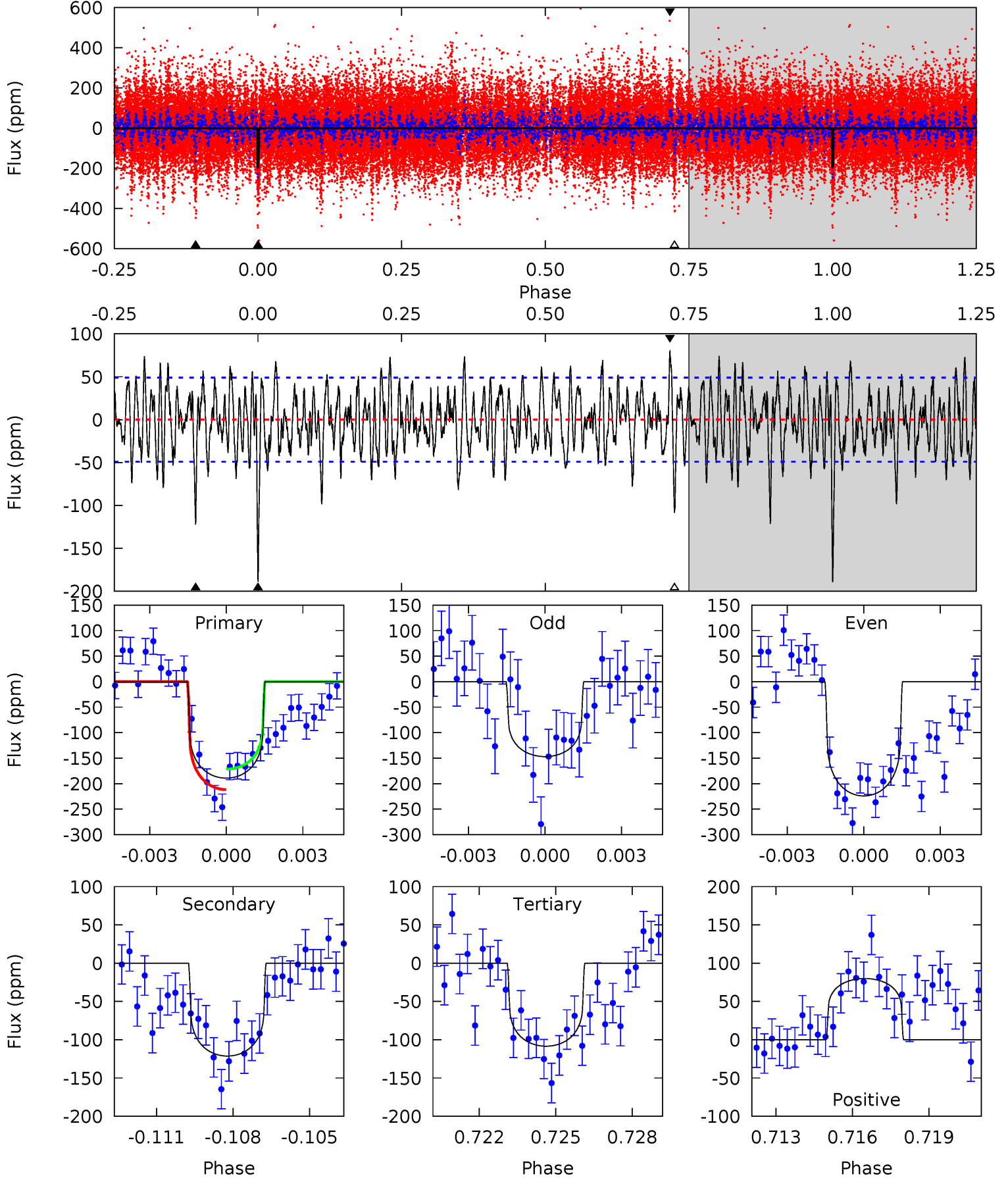
TCE 011804800-01 P=303.615457 Days $T_0=271.874538$ (BKJD)



DV Model-Shift Uniqueness Test

011804800-01, P = 303.668177 Days, E = 271.849673 Days

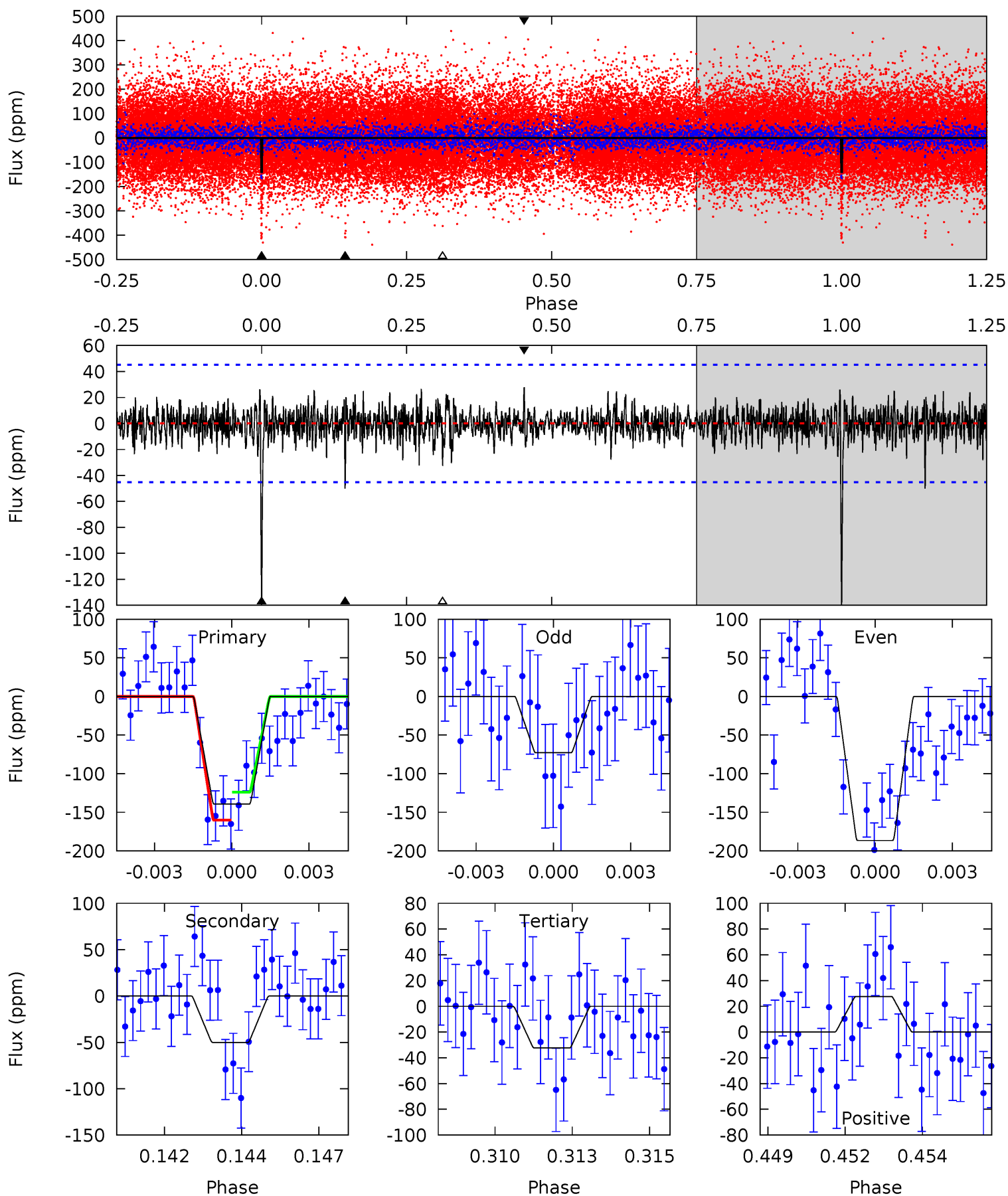
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.3	13.0	11.7	8.59	5.26	2.98	3.21	8.68	11.7	1.38	4.45	4.11	1.06	0.30	2.13



Alt Model-Shift Uniqueness Test

011804800-01, P = 303.615457 Days, E = 271.874538 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.3	5.84	3.78	3.22	5.27	3.00	1.00	12.5	13.0	2.07	2.62	6.58	1.16	0.17	2.09



Stellar Parameters For KIC 011804800

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6143^{+167}_{-167}	$3.936^{+0.266}_{-0.114}$	$-0.120^{+0.300}_{-0.250}$	$1.946^{+0.411}_{-0.616}$	$1.191^{+0.218}_{-0.198}$	$0.228^{+0.391}_{-0.079}$
	+3%/-3%	+7%/-3%	+250%/-208%	+21%/-32%	+18%/-17%	+172%/-35%
Source	PHO1	FLK73	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 011804800-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-121 ± 9	$2.73^{+1.14}_{-1.01}$	537^{+35}_{-43}	5598^{+1318}_{-733}	7884^{+12262}_{-3863}
Alt.	-50 ± 9	$2.53^{+1.11}_{-0.98}$	539^{+34}_{-47}	4757^{+1211}_{-577}	3723^{+6815}_{-1842}

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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

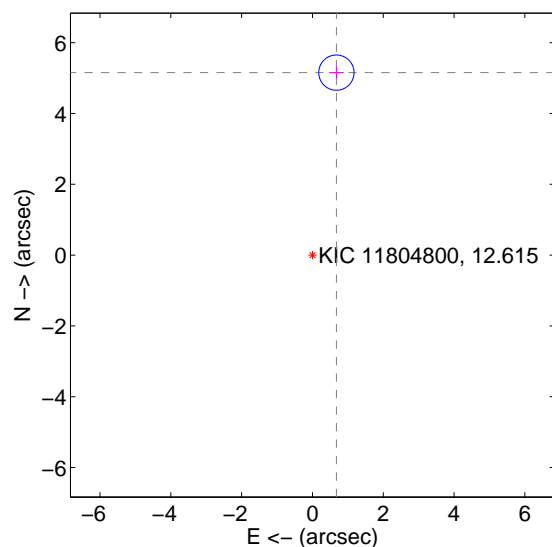
Supplemental centroid analysis for 011804800-01. Kepler magnitude: 12.62. Transit SNR 10.53

There are 0 quarters with good PRF difference image offsets

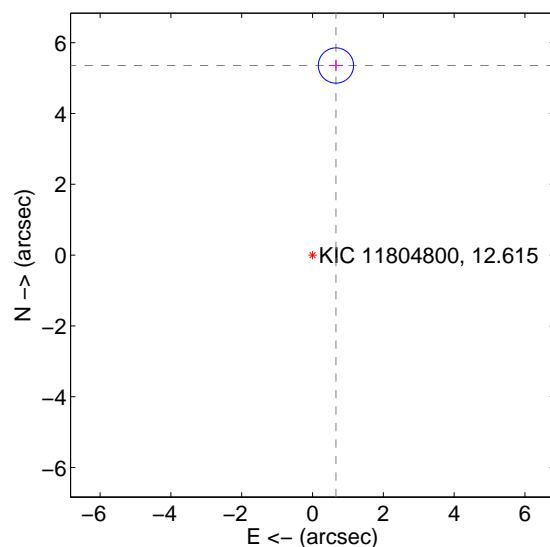
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.199 ± 0.166	31.31	-0.677 ± 0.204	5.155 ± 0.165
PRF-fit source offset from KIC position	5.397 ± 0.166	32.52	-0.661 ± 0.204	5.356 ± 0.165
photometric centroid source offset	1.96 ± 0.88	2.22	-1.96 ± 0.88	0.08 ± 0.95

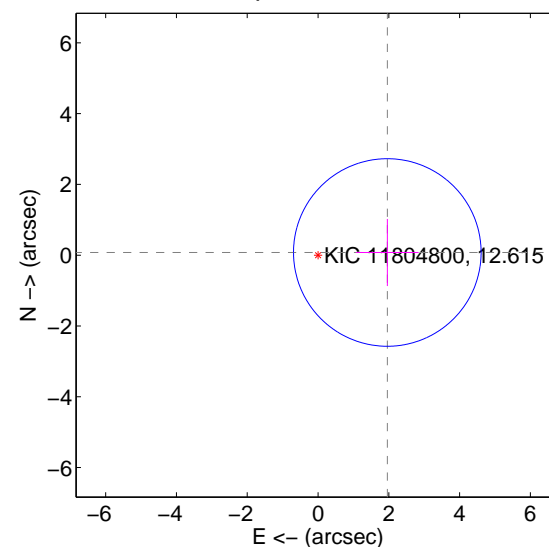
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

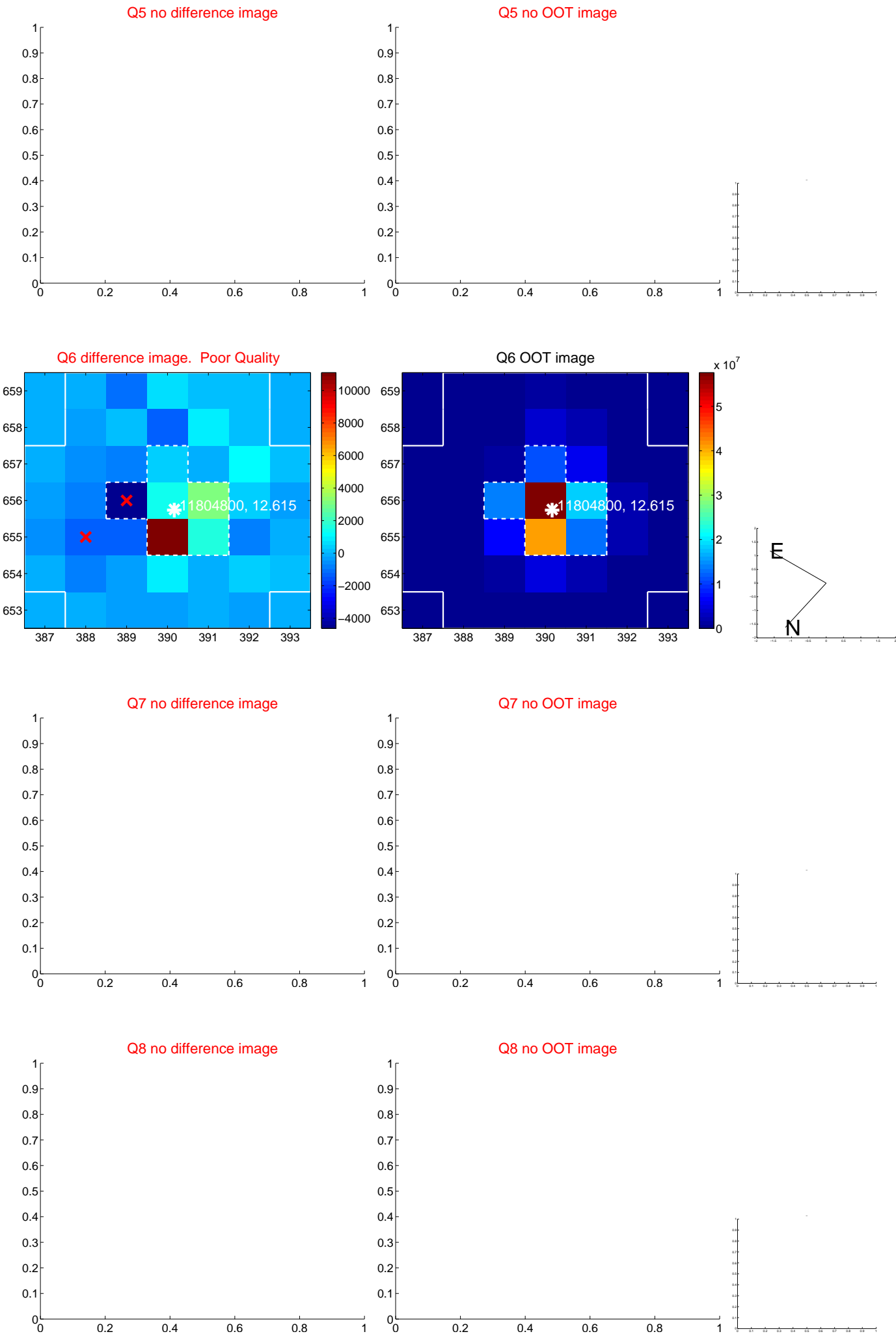


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

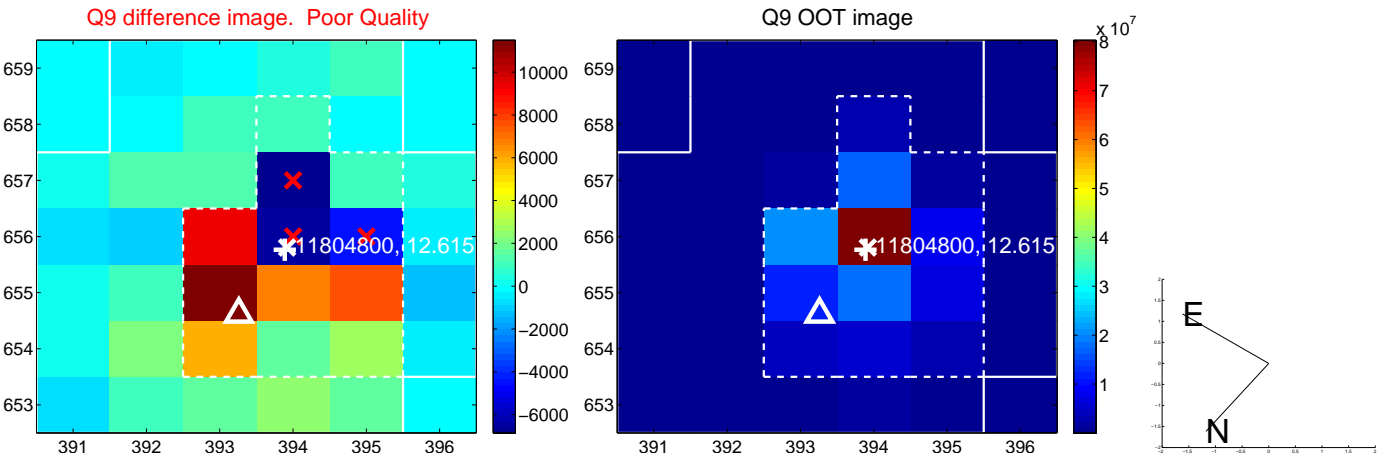
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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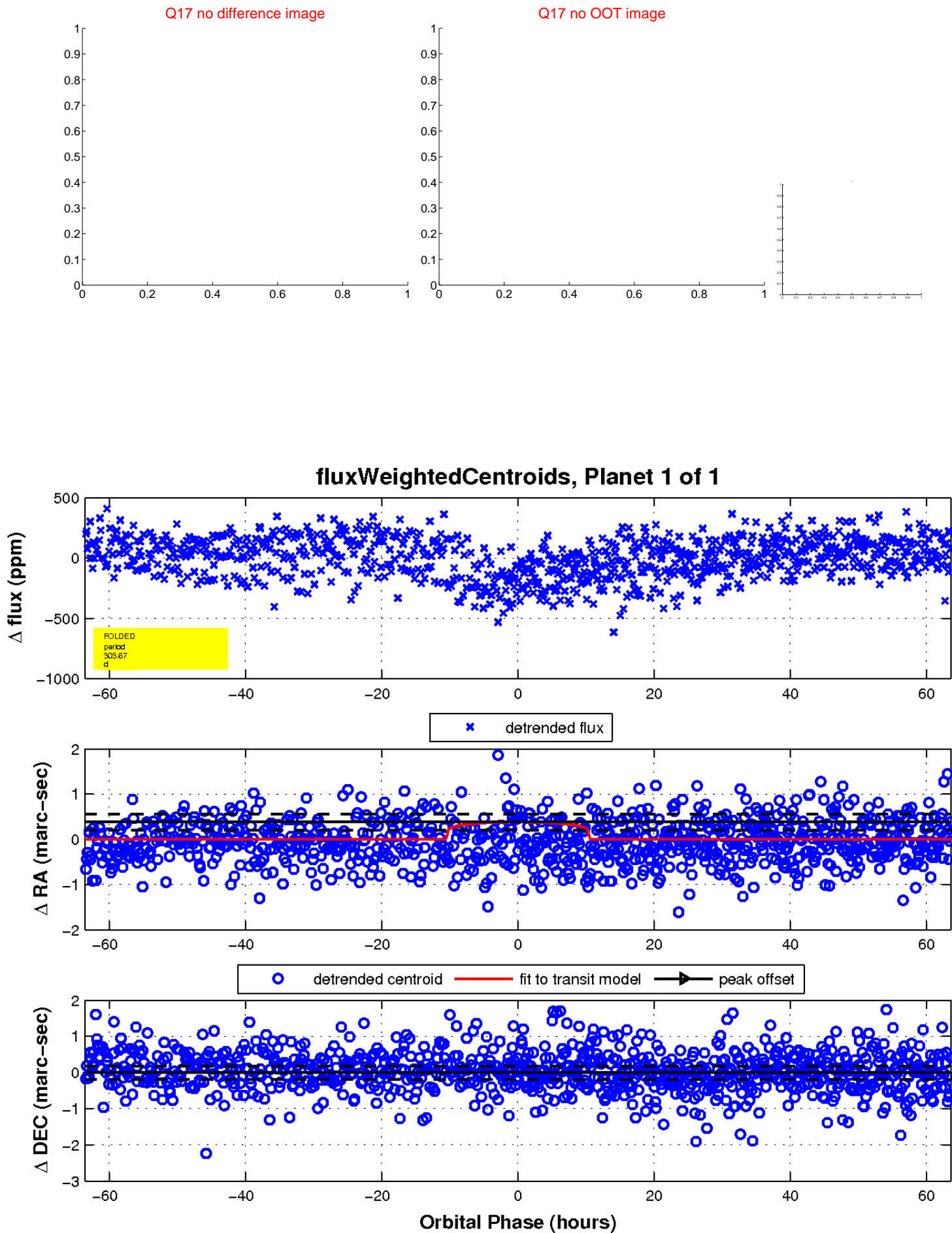
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

