

KIC 011960342

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})
011960342-01	OBS	No	499.865462	281.469879	652.8	3.050	7.8	4.4	1.01	5997	2.80	0.79

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011960342-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_TER_DV—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.

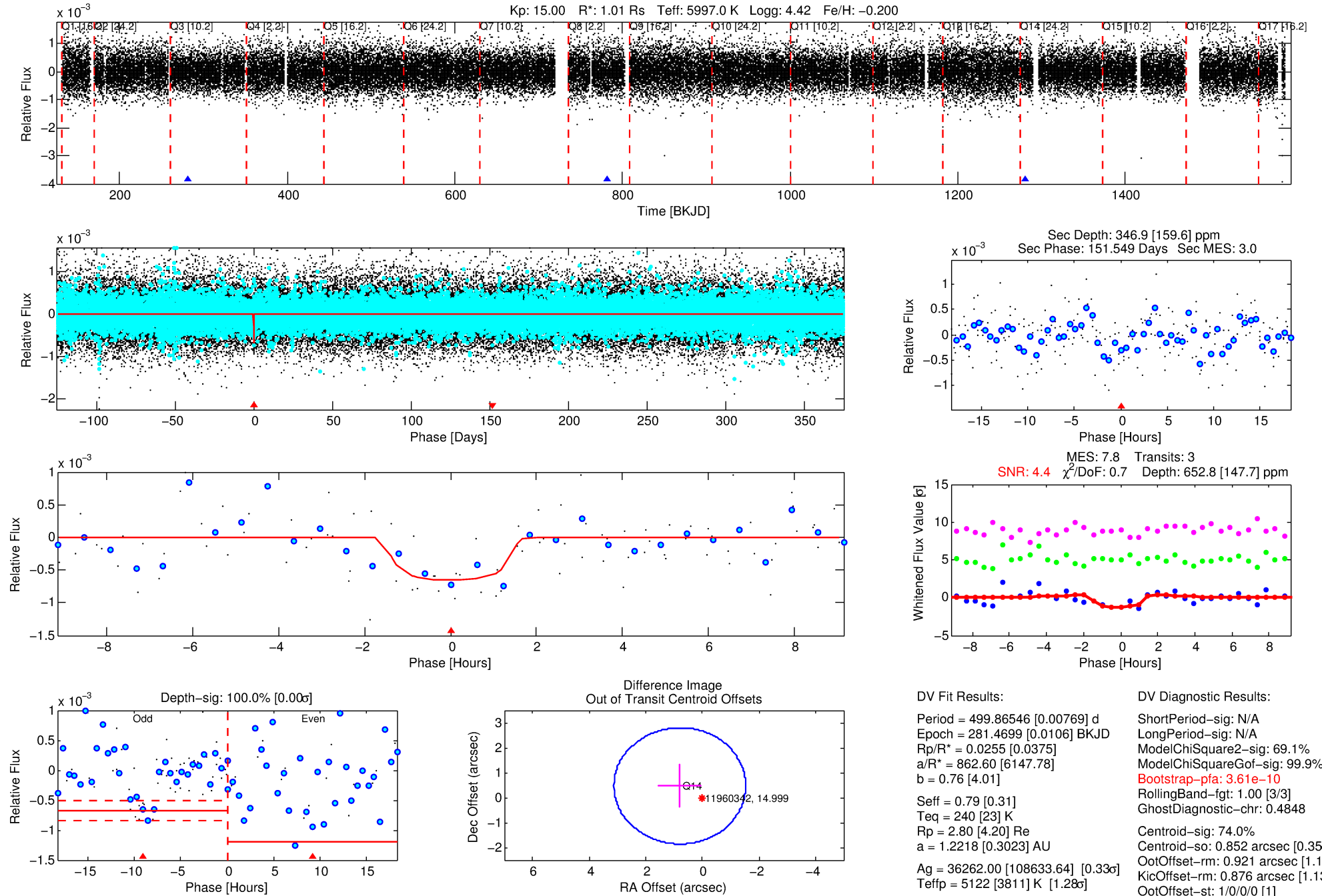
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011960342-01

No Significant Match Found

DV One-Page Summary

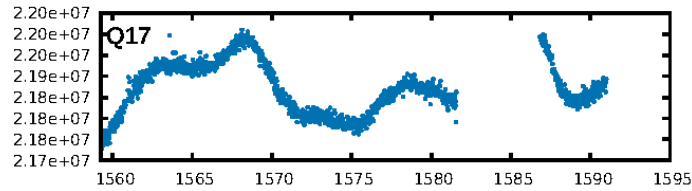
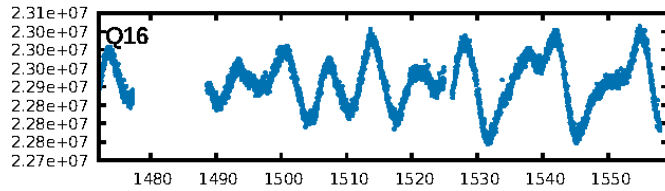
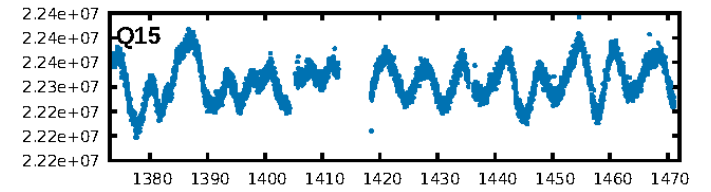
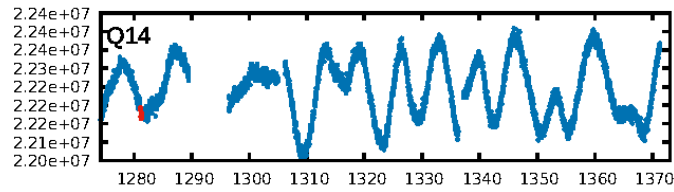
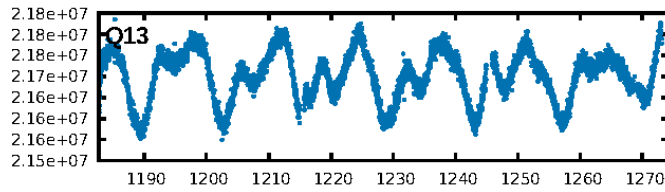
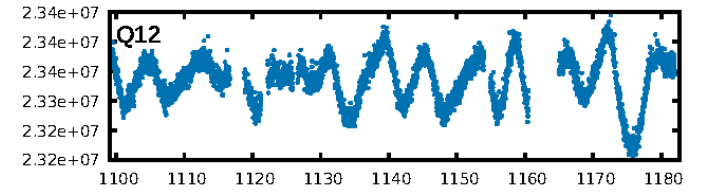
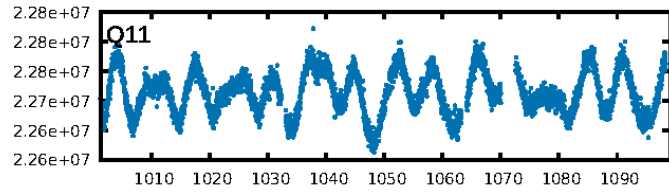
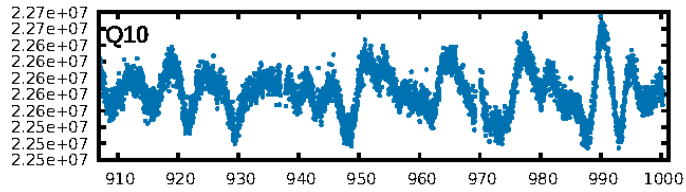
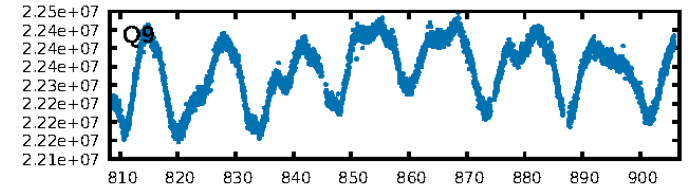
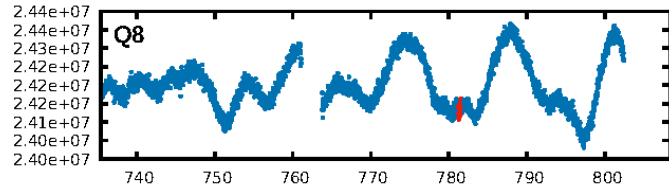
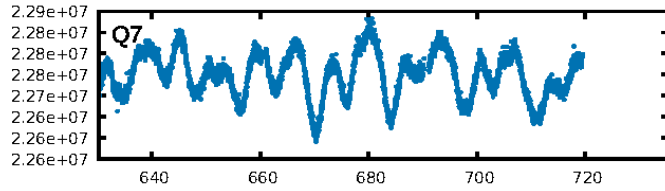
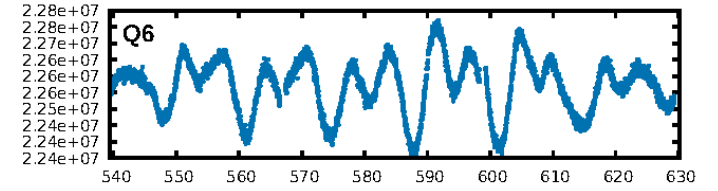
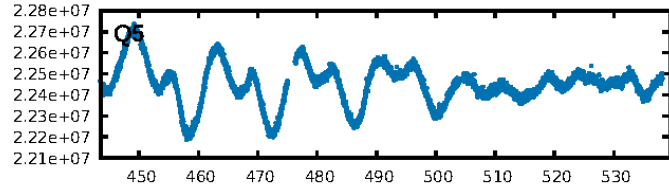
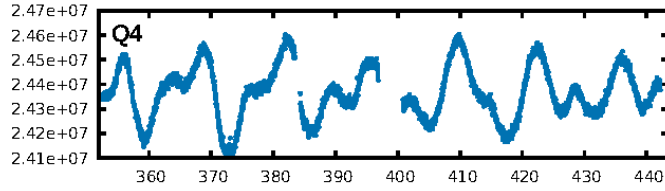
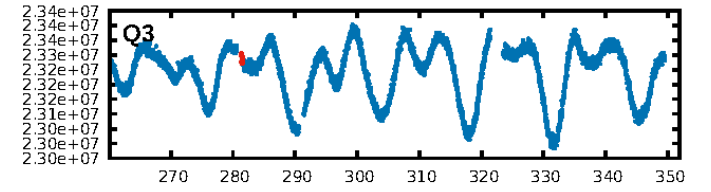
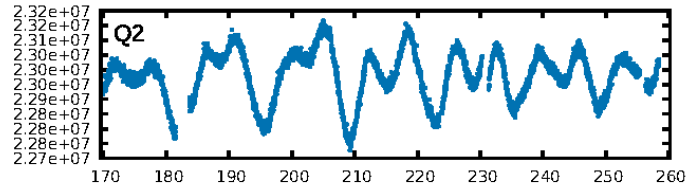
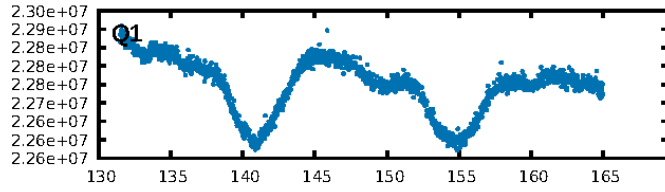
KIC: 11960342 Candidate: 1 of 1 Period: 499.865 d



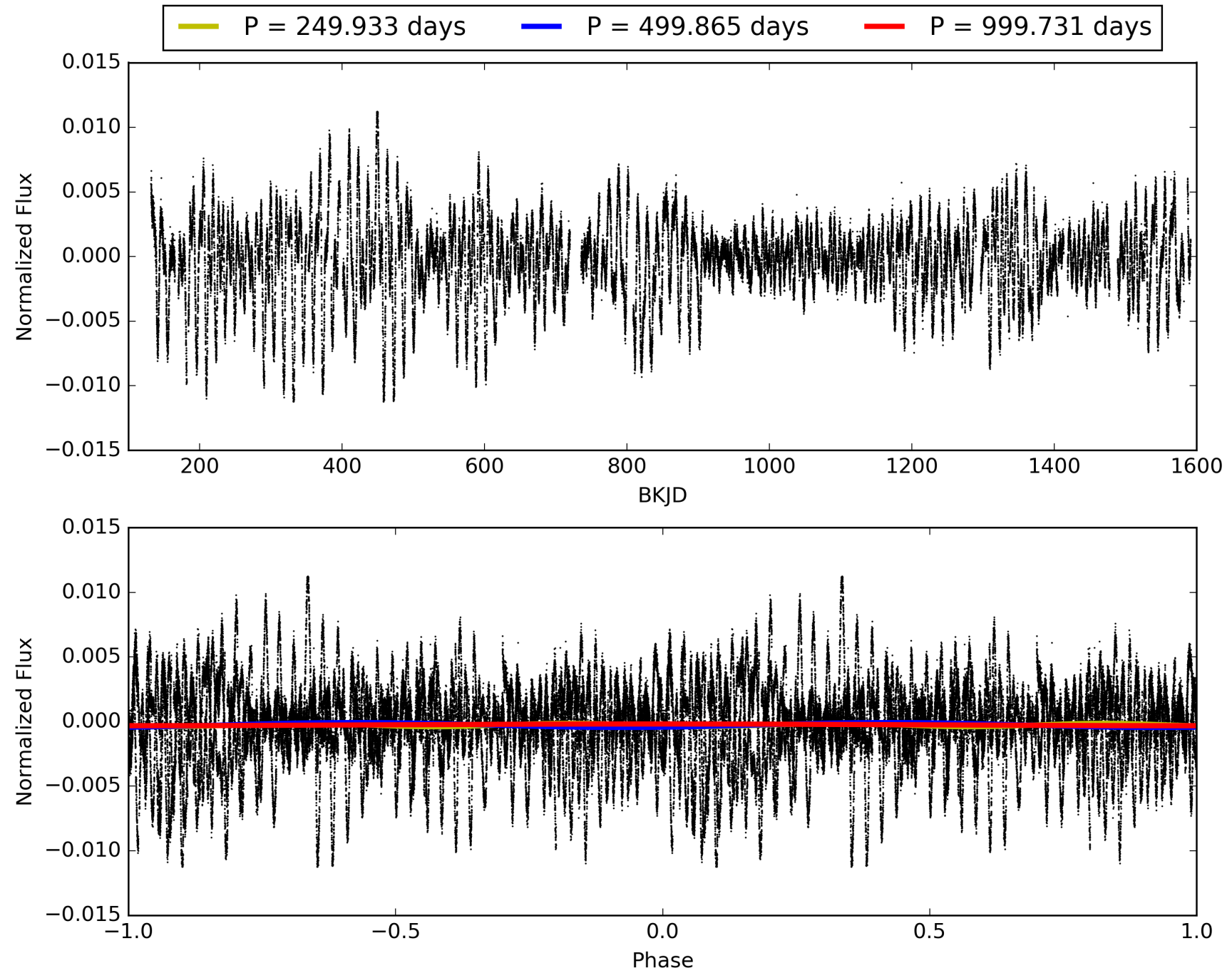
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:10:15 Z

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

TCE 011960342-01, PDC Light Curves

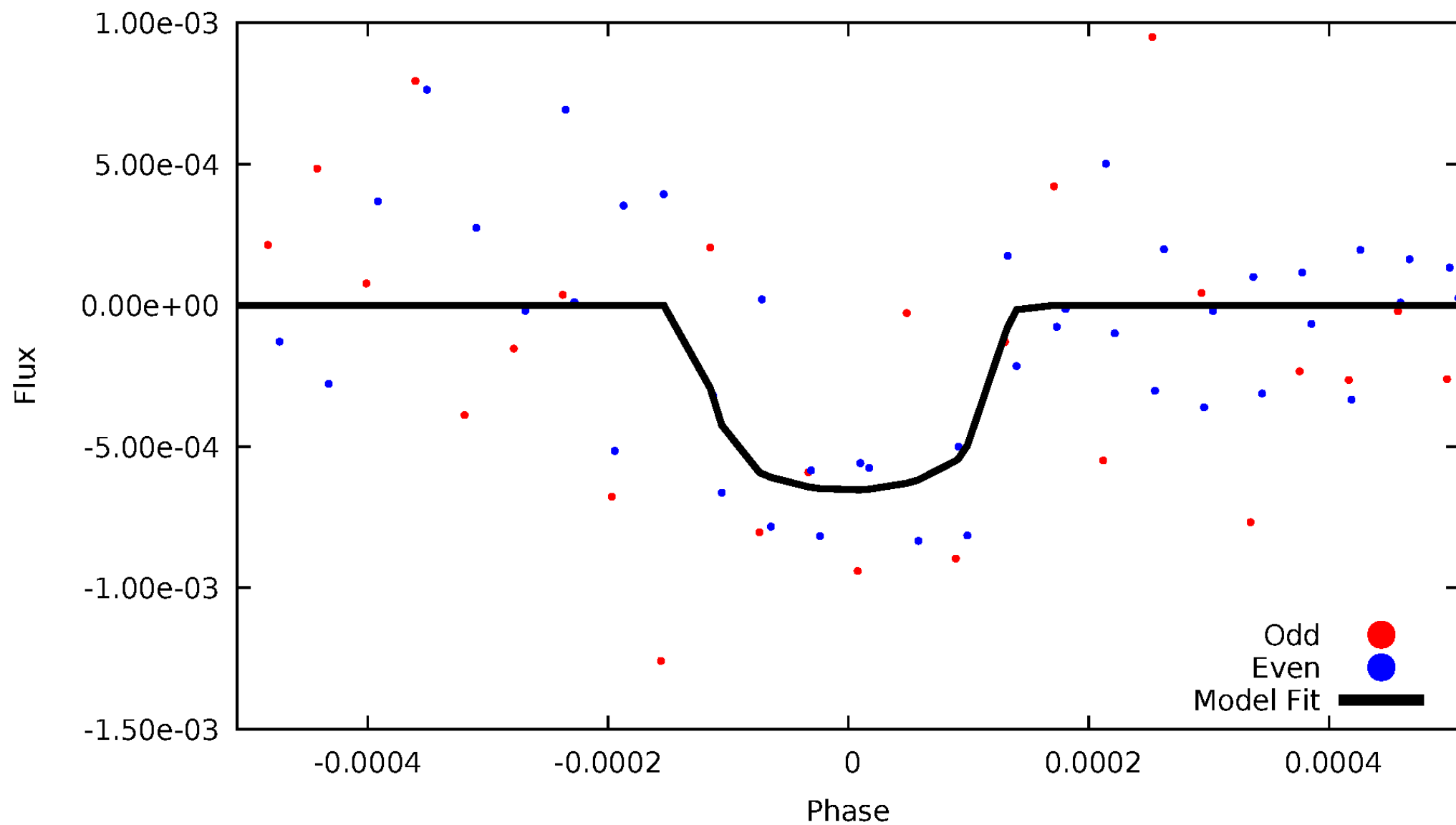


TCE 011960342-01



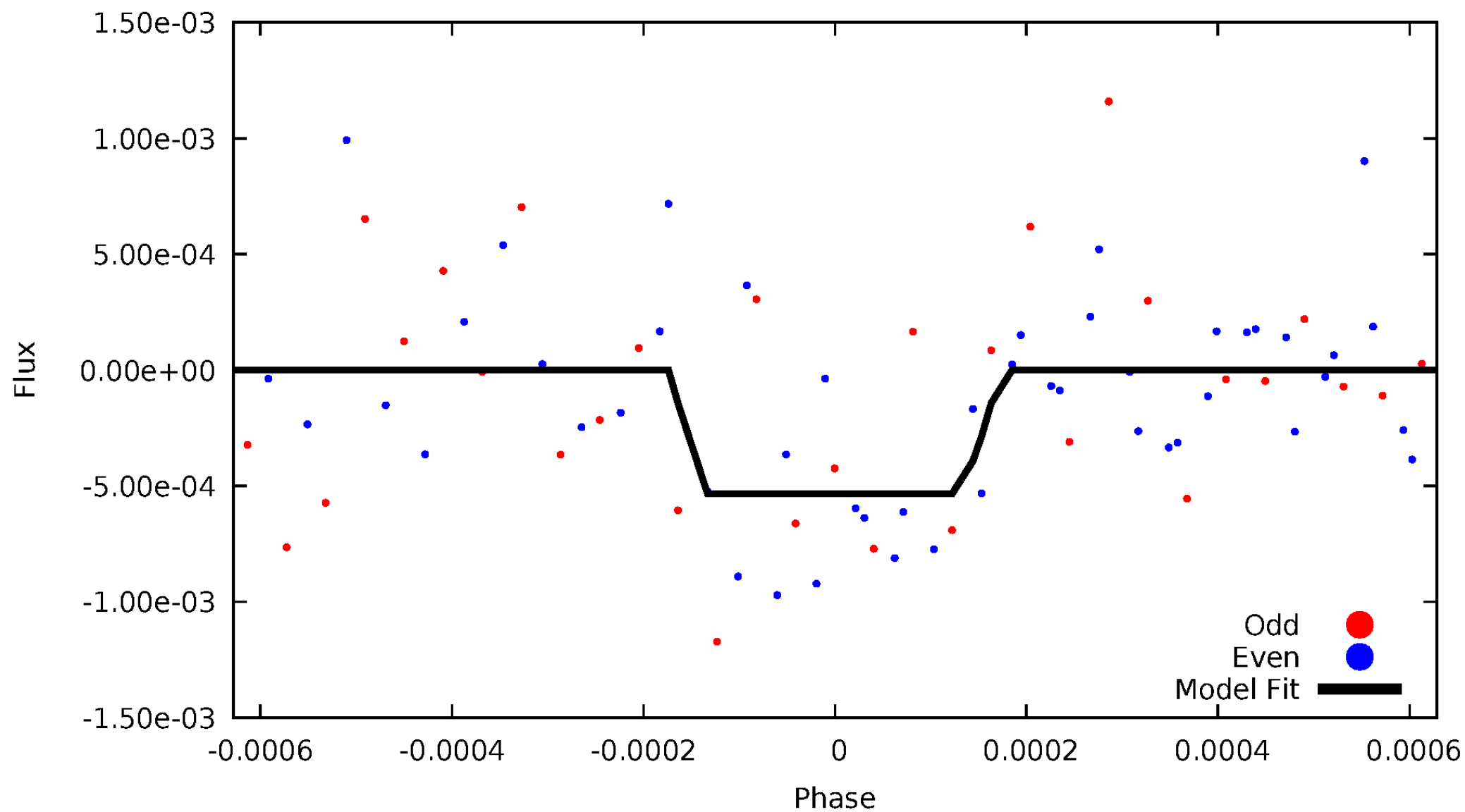
DV Odd/Even

TCE 011960342-01



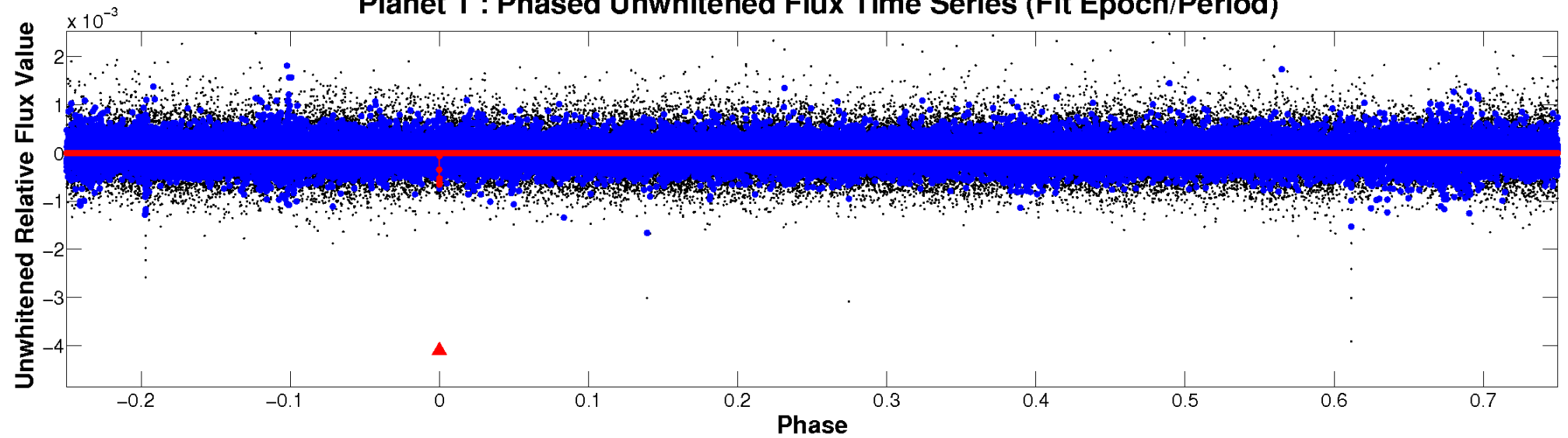
ALT Odd/Even

TCE 011960342-01

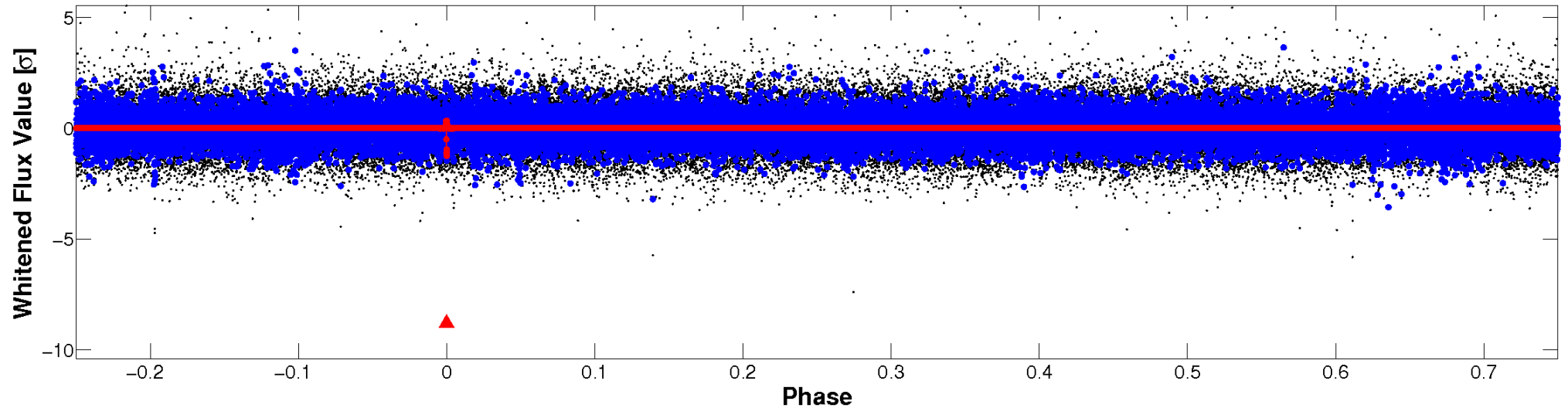


Non-Whitened Vs. Whitened Light Curve

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

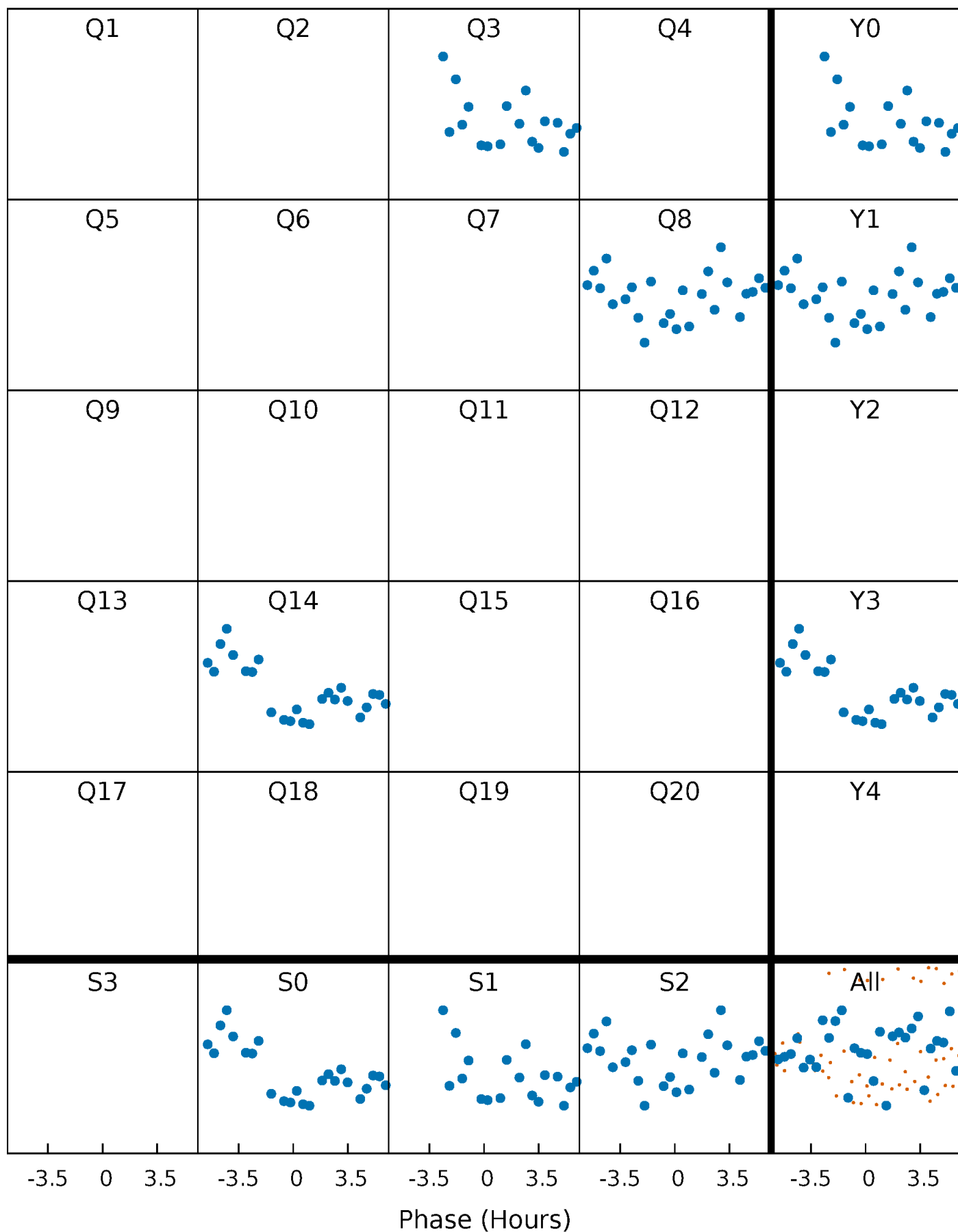


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



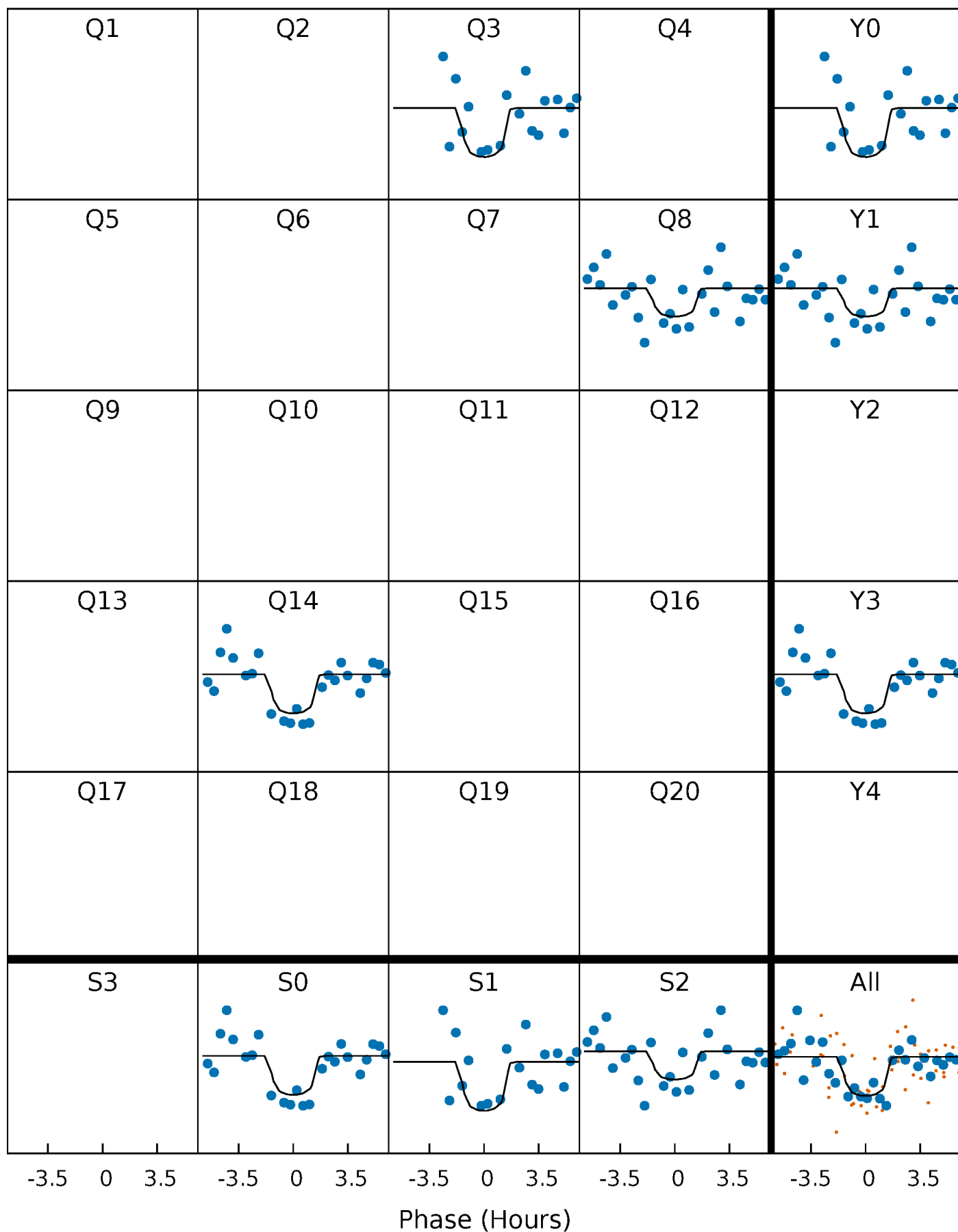
PDC Quarter-Phased Transit Curves

TCE 011960342-01 P=499.865462 Days $T_0=281.469879$ (BKJD)



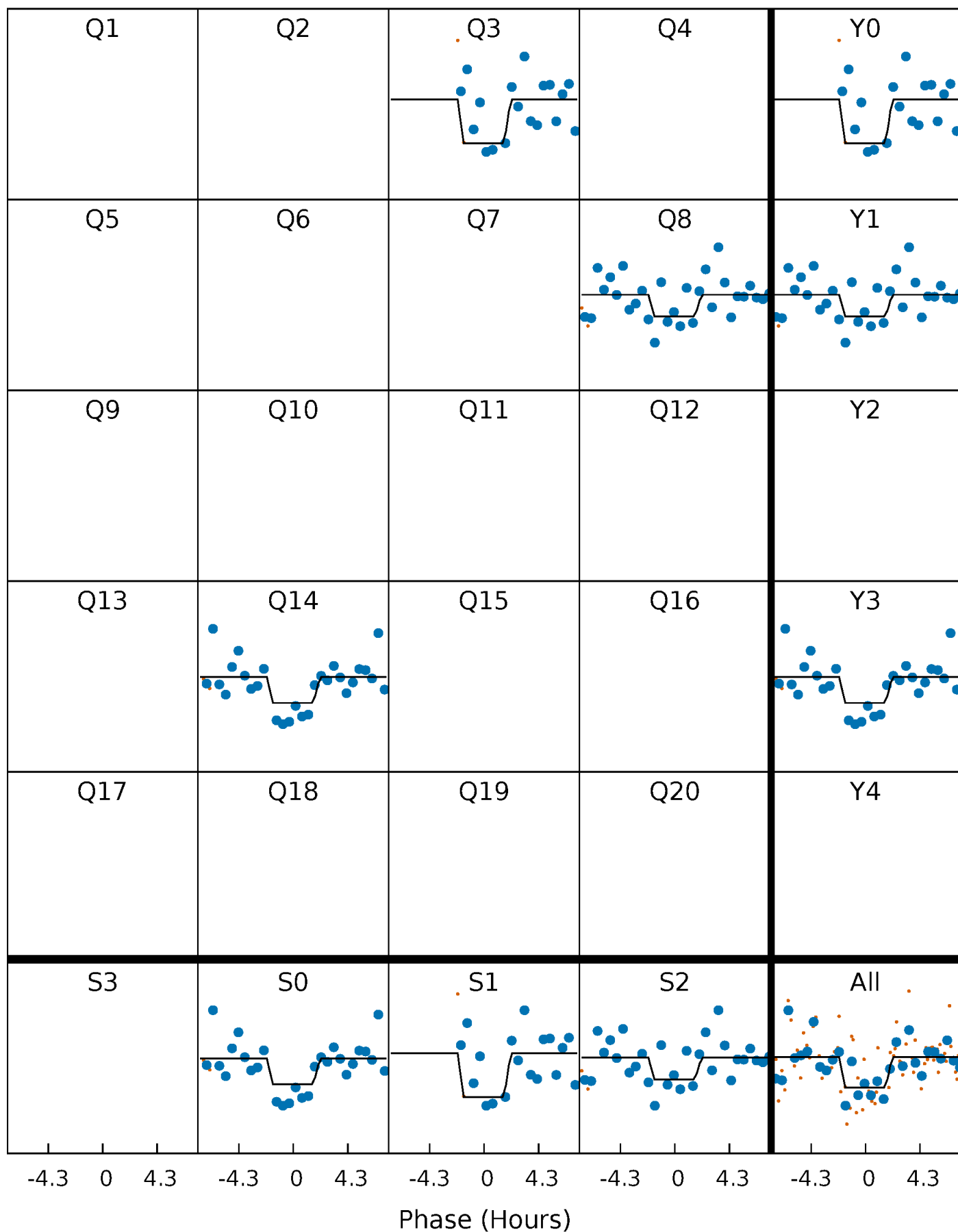
DV Quarter-Phased Transit Curves

TCE 011960342-01 P=499.865462 Days $T_0=281.469879$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

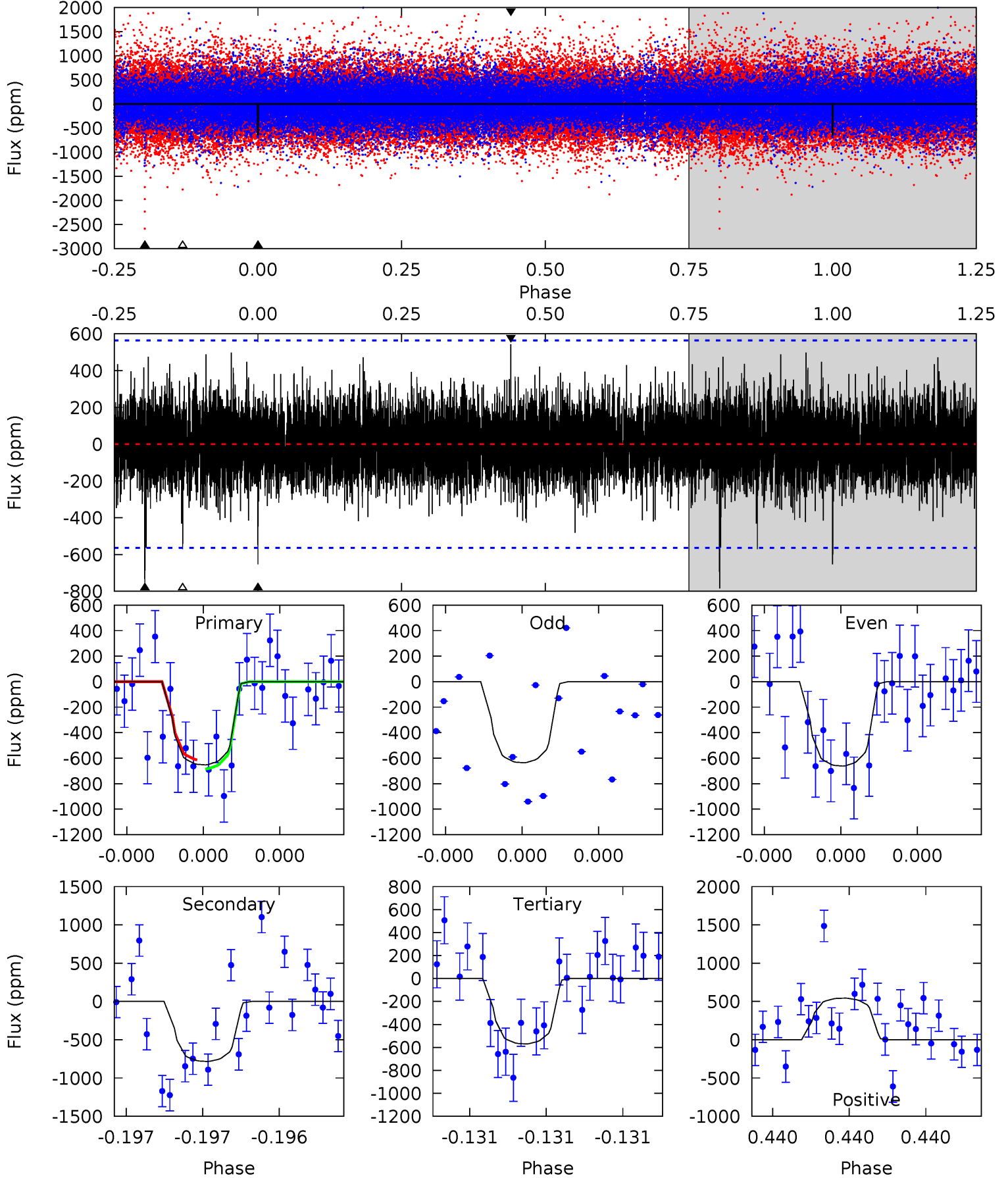
TCE 011960342-01 P=499.879801 Days $T_0=281.439183$ (BKJD)



DV Model-Shift Uniqueness Test

011960342-01, P = 499.865462 Days, E = 281.469879 Days

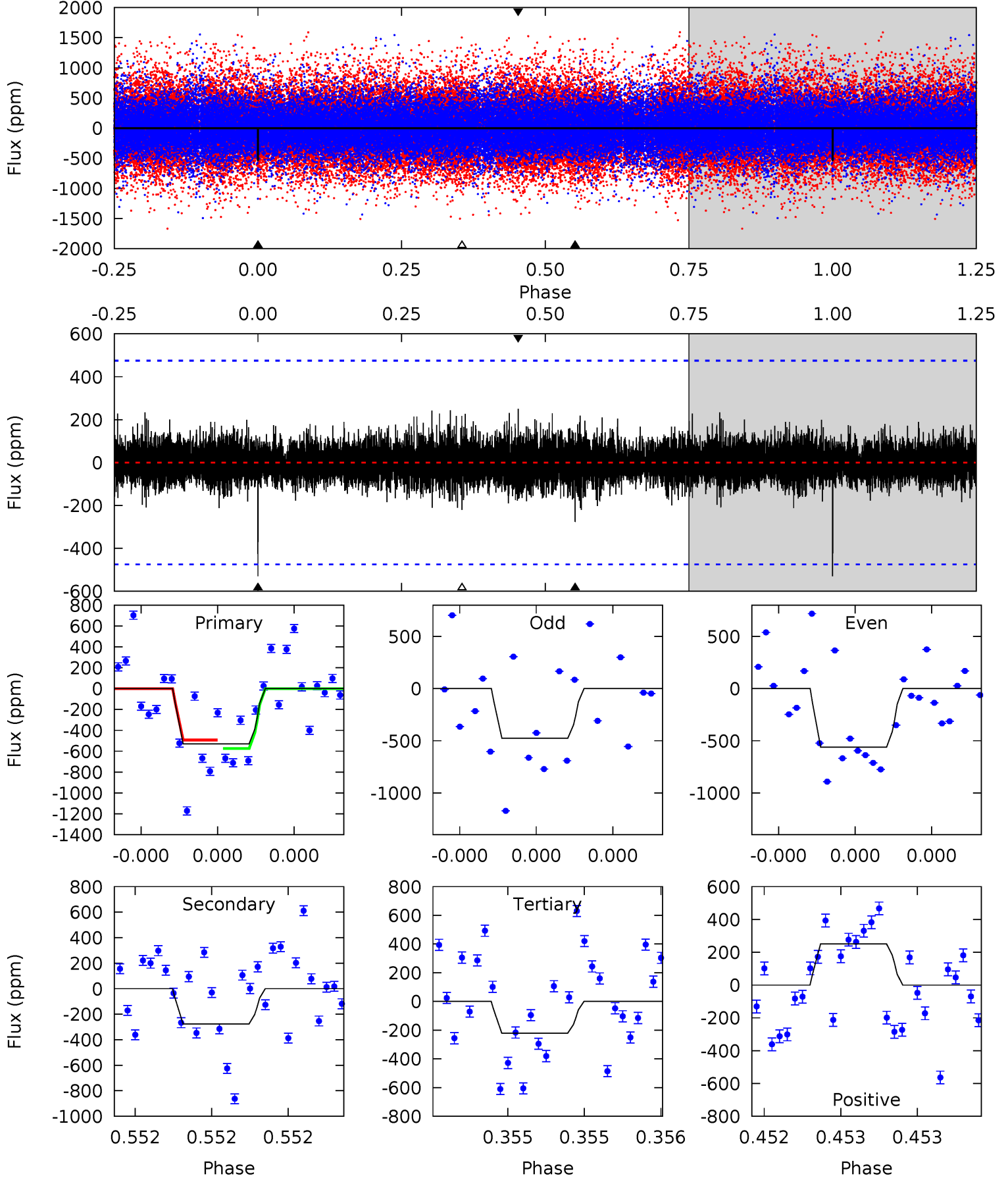
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.56	7.88	5.73	5.47	5.67	3.63	1.25	0.83	1.10	2.15	2.41	0.12	1.00	0.41	0.35



Alt Model-Shift Uniqueness Test

011960342-01, P = 499.879801 Days, E = 281.439183 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.32	3.30	2.63	2.99	5.66	3.62	0.66	3.69	3.33	0.67	0.31	0.49	1.11	0.32	0.49



Stellar Parameters For KIC 011960342

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5997^{+161}_{-197}	$4.421^{+0.087}_{-0.203}$	$-0.200^{+0.300}_{-0.300}$	$1.006^{+0.290}_{-0.134}$	$0.974^{+0.133}_{-0.121}$	$1.348^{+0.592}_{-0.656}$
	+3%/-3%	+2%/-5%	+150%/-150%	+29%/-13%	+14%/-12%	+44%/-49%
Source	PHO1	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 011960342-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-783 ± 99	$4.18^{+3.71}_{-2.70}$	339^{+24}_{-17}	5233^{+4029}_{-1157}	$35436^{+240543}_{-25247}$
Alt.	-276 ± 84	$4.02^{+3.65}_{-2.72}$	340^{+25}_{-18}	4326^{+3035}_{-881}	$13382^{+118677}_{-9837}$

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

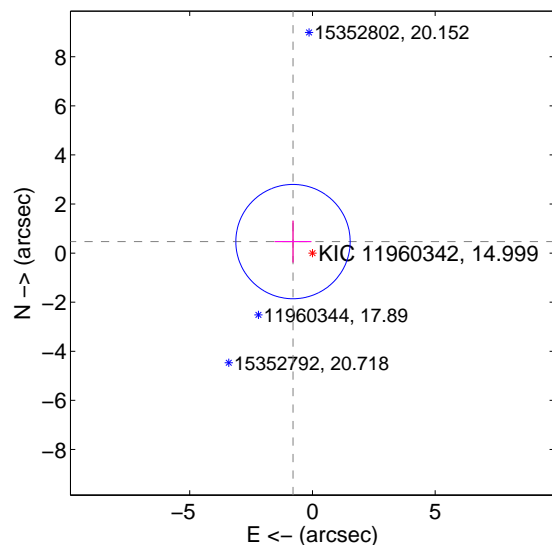
Supplemental centroid analysis for 011960342-01. Kepler magnitude: 15.00. Transit SNR 4.44

There are 0 quarters with good PRF difference image offsets

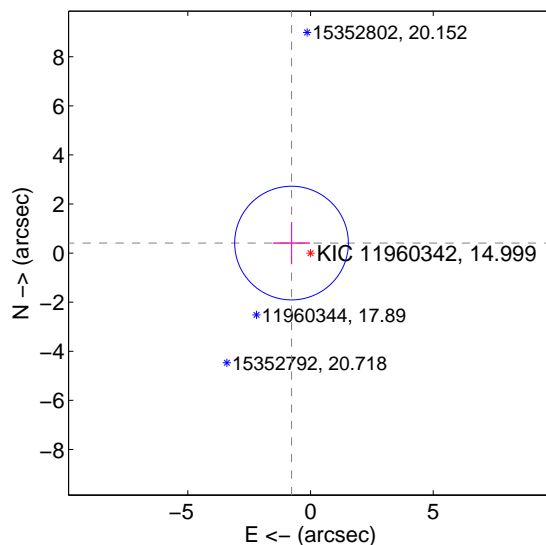
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.921 ± 0.776	1.19	0.792 ± 0.748	0.469 ± 0.853
PRF-fit source offset from KIC position	0.876 ± 0.772	1.13	0.774 ± 0.748	0.409 ± 0.853
photometric centroid source offset	0.85 ± 2.45	0.35	-0.61 ± 2.58	0.59 ± 2.31

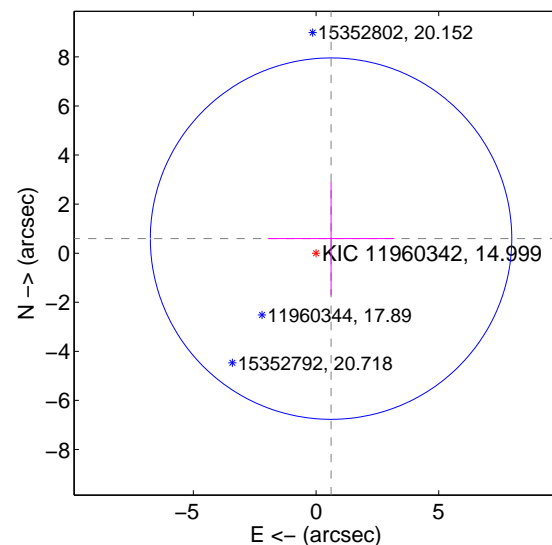
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

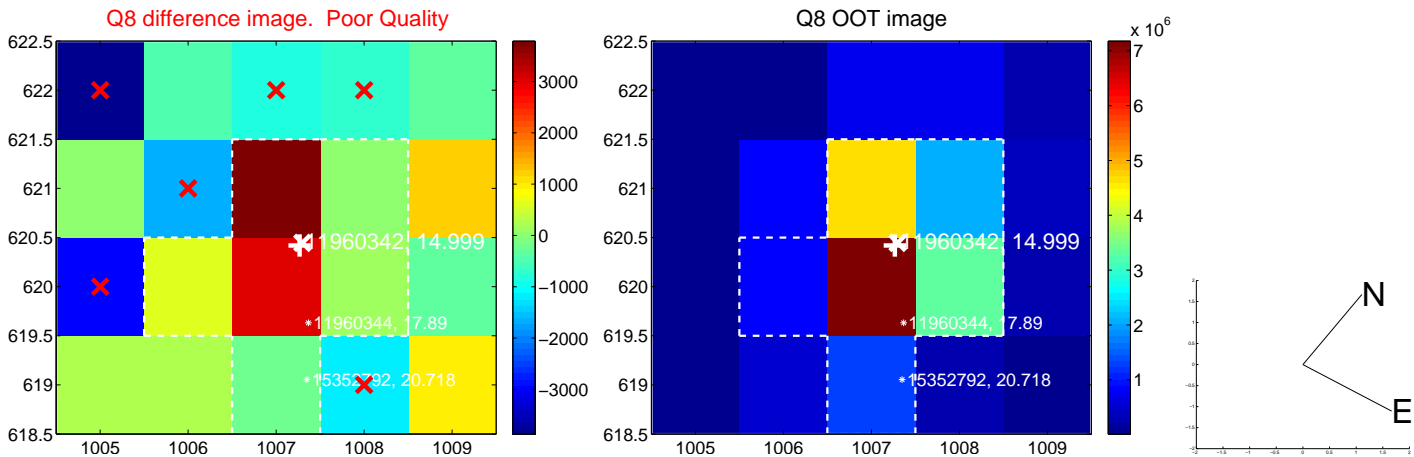


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . 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.



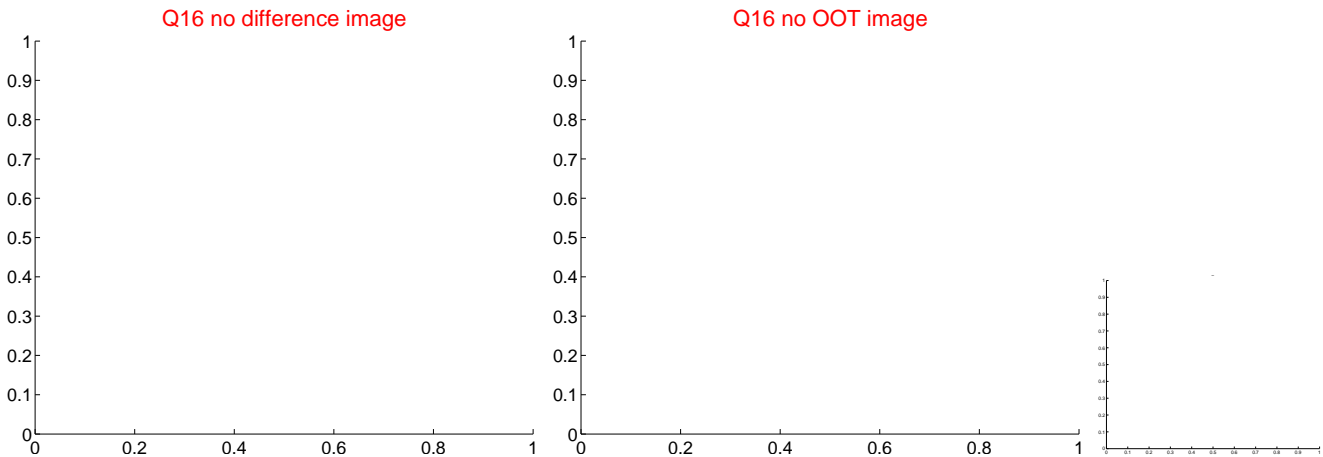
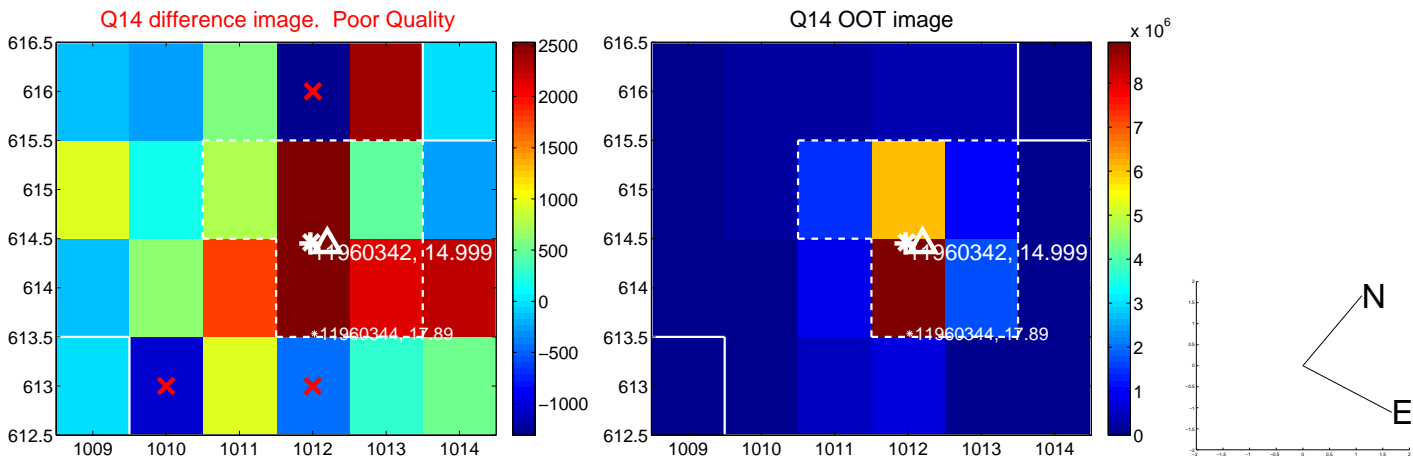
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



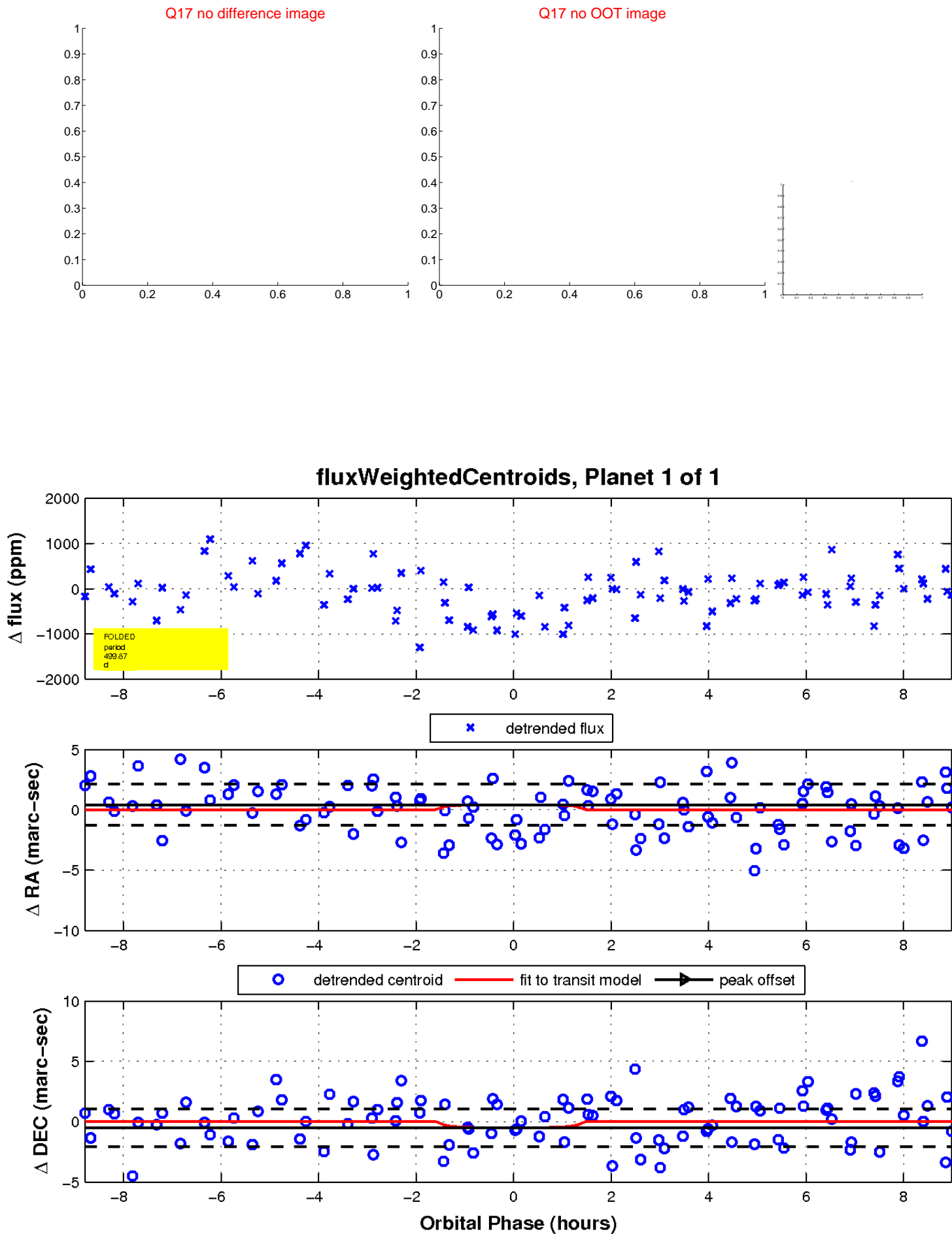
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

