

KIC 003239219

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})
003239219-01	OBS	No	317.938176	434.919599	999.0	3.000	12.8	-1.0	1.27	6082	4.03	2.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003239219-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

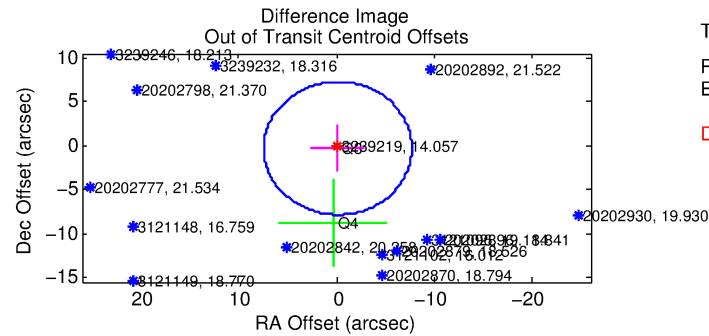
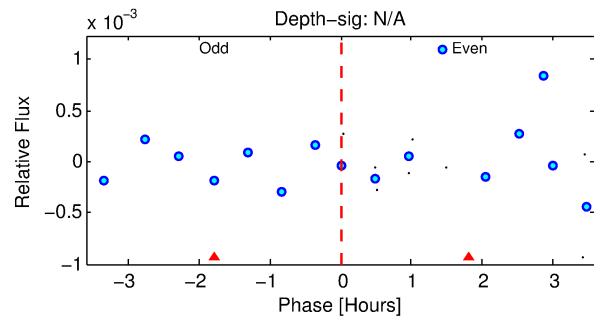
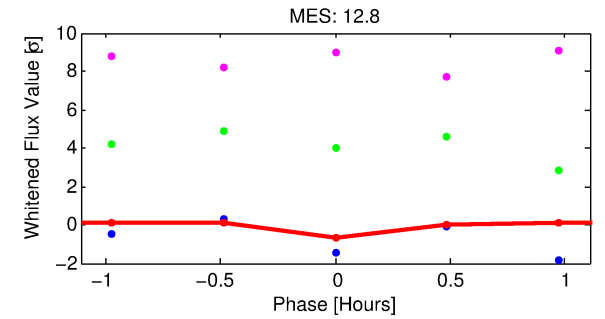
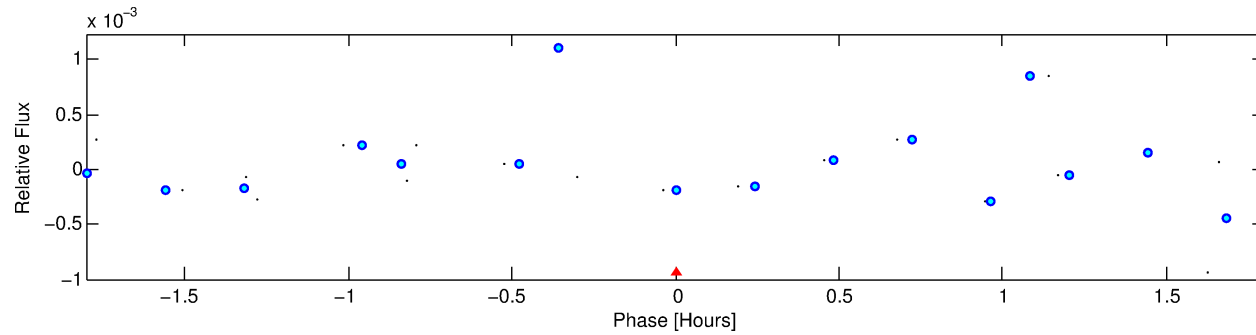
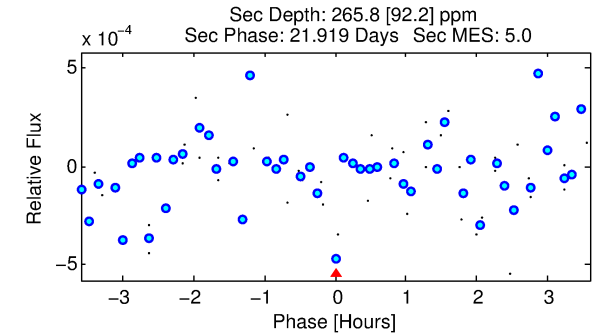
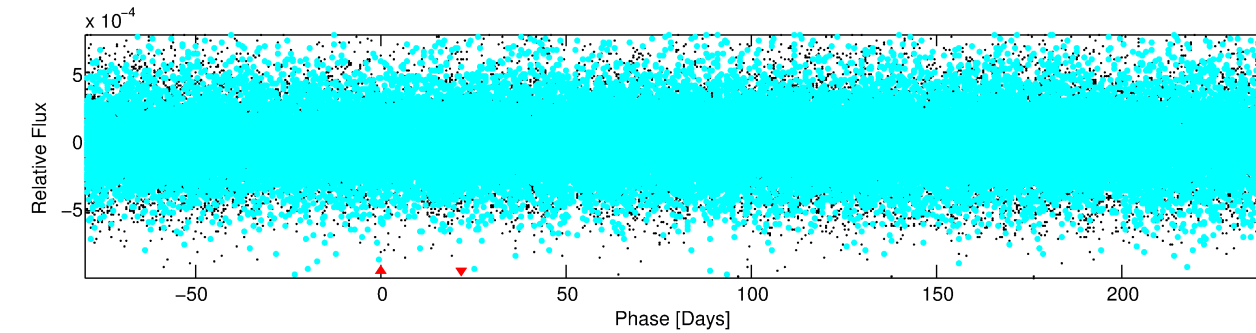
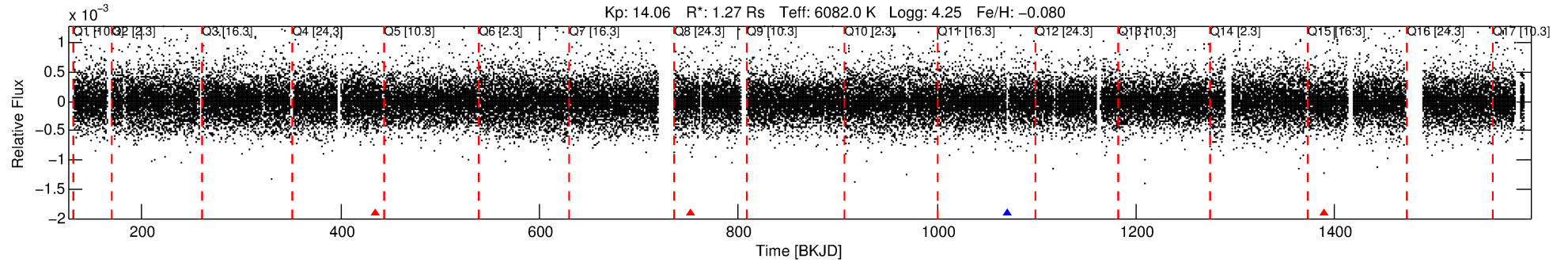
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003239219-01

No Significant Match Found

DV One-Page Summary

KIC: 3239219 Candidate: 1 of 1 Period: 317.938 d



TPS TCE Results:

Period = 317.93818 d
Epoch = 434.9196 BKJD

DV fit results are unavailable

DV Diagnostic Results:

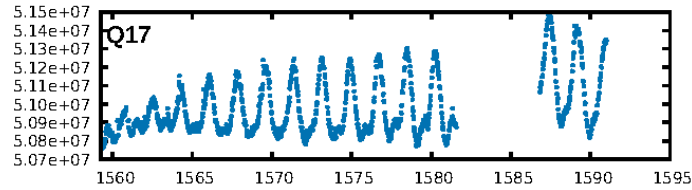
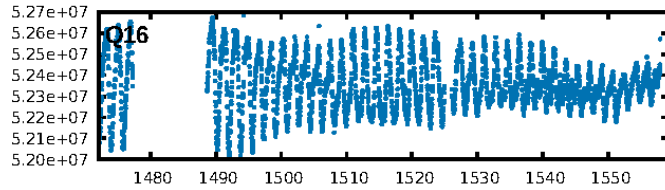
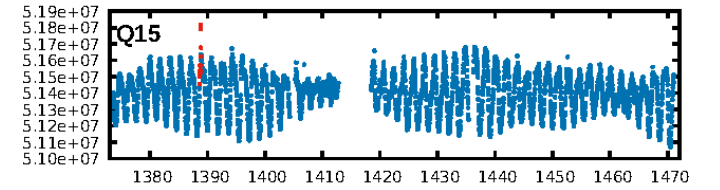
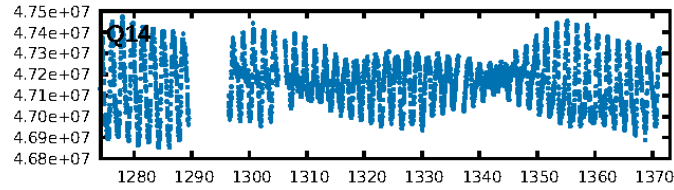
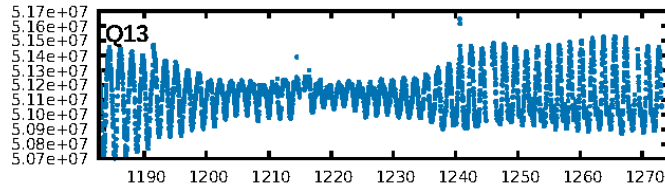
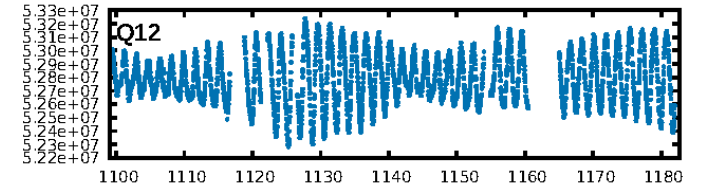
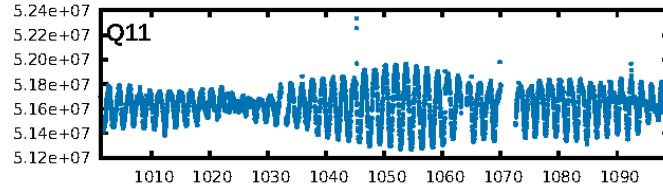
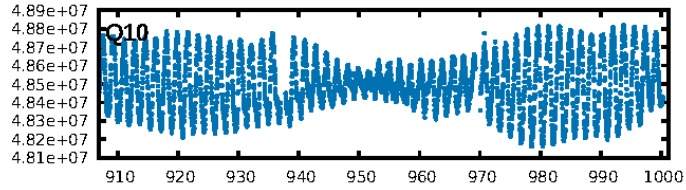
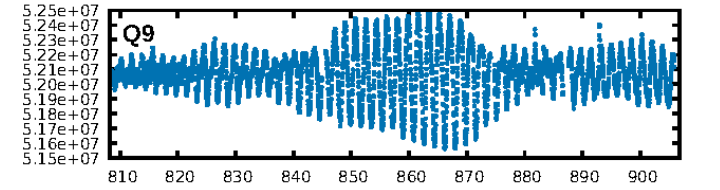
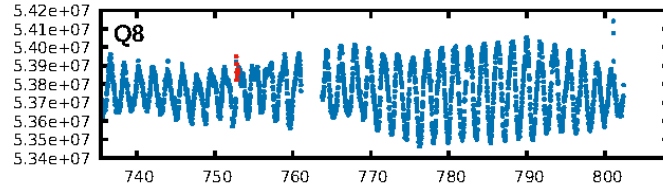
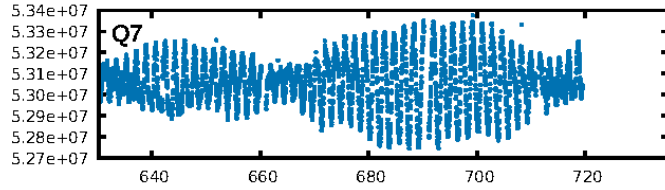
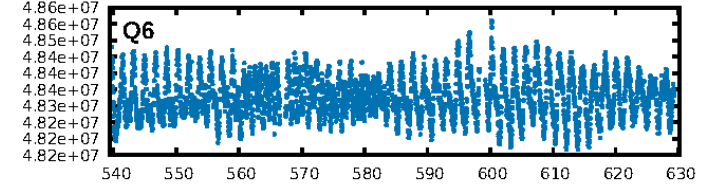
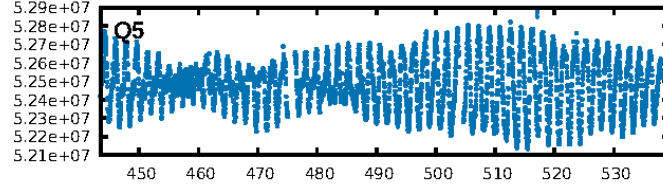
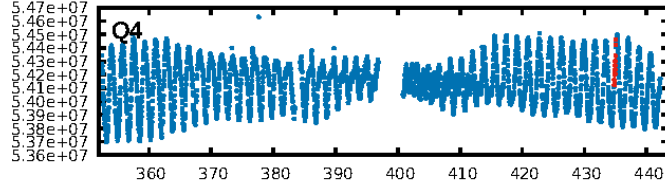
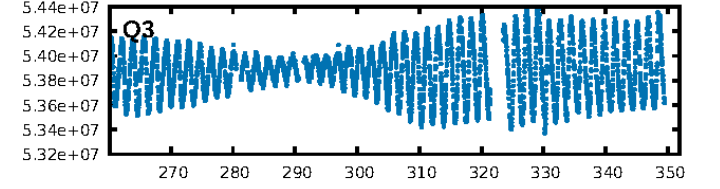
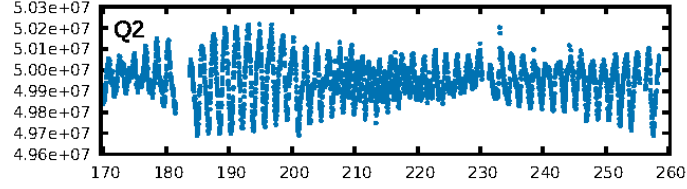
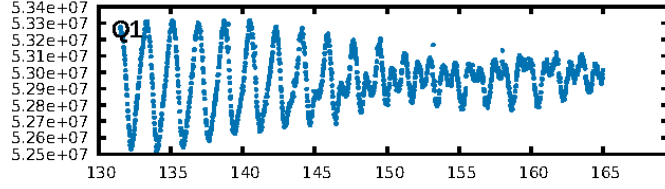
ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.44e-17
RollingBand-fgt: 0.00 [0/3]
GhostDiagnostic-chr: 2.111

Centroid-sig: 14.6%
Centroid-so: 18.830 arcsec [1.35σ]
OotOffset-rm: 0.310 arcsec [0.12σ]
KicOffset-rm: 0.365 arcsec [0.14σ]
OotOffset-st: 0/0/2/0 [2]
KicOffset-st: 0/0/2/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [2/2]

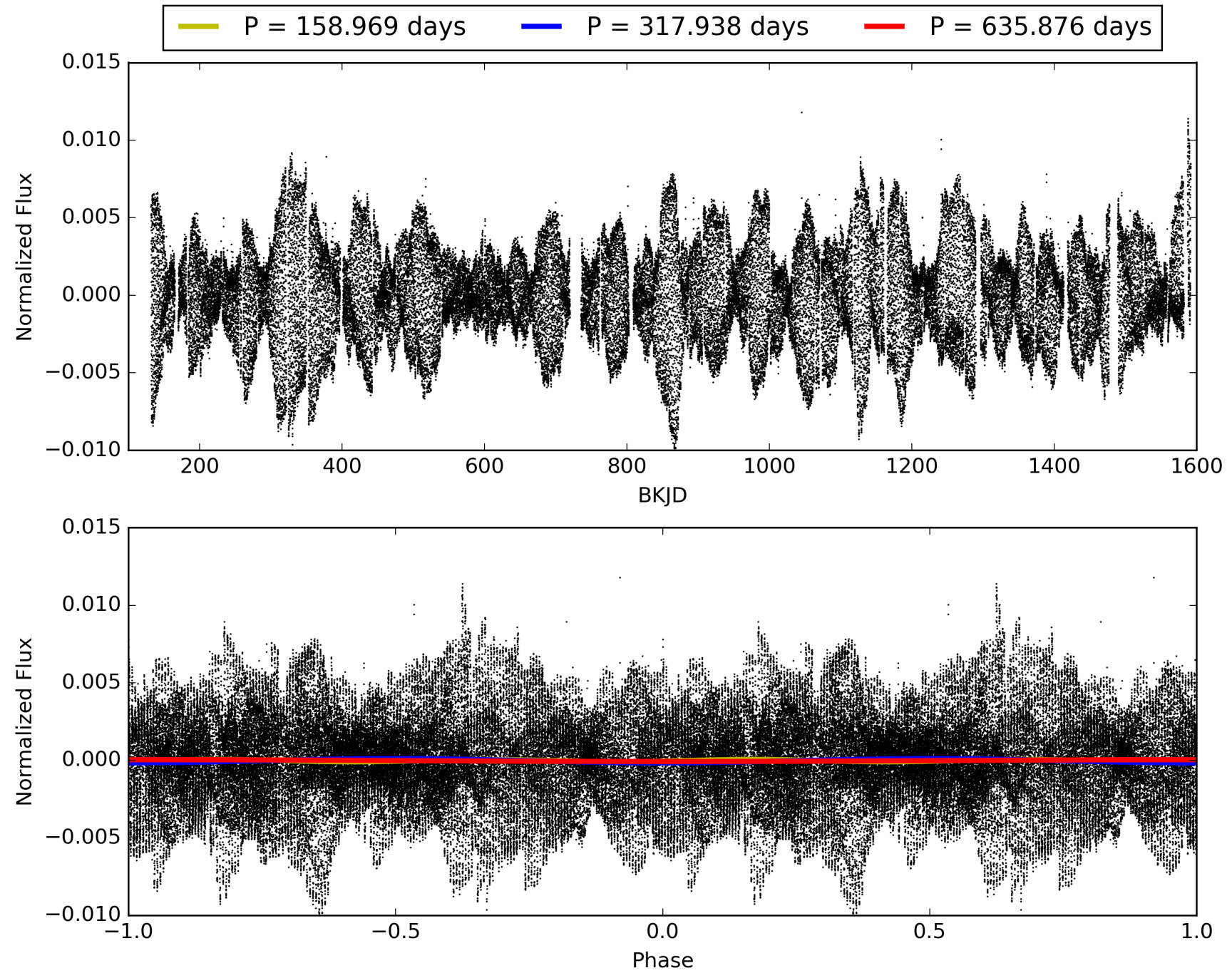
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 19:36:52 Z

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

TCE 003239219-01, PDC Light Curves

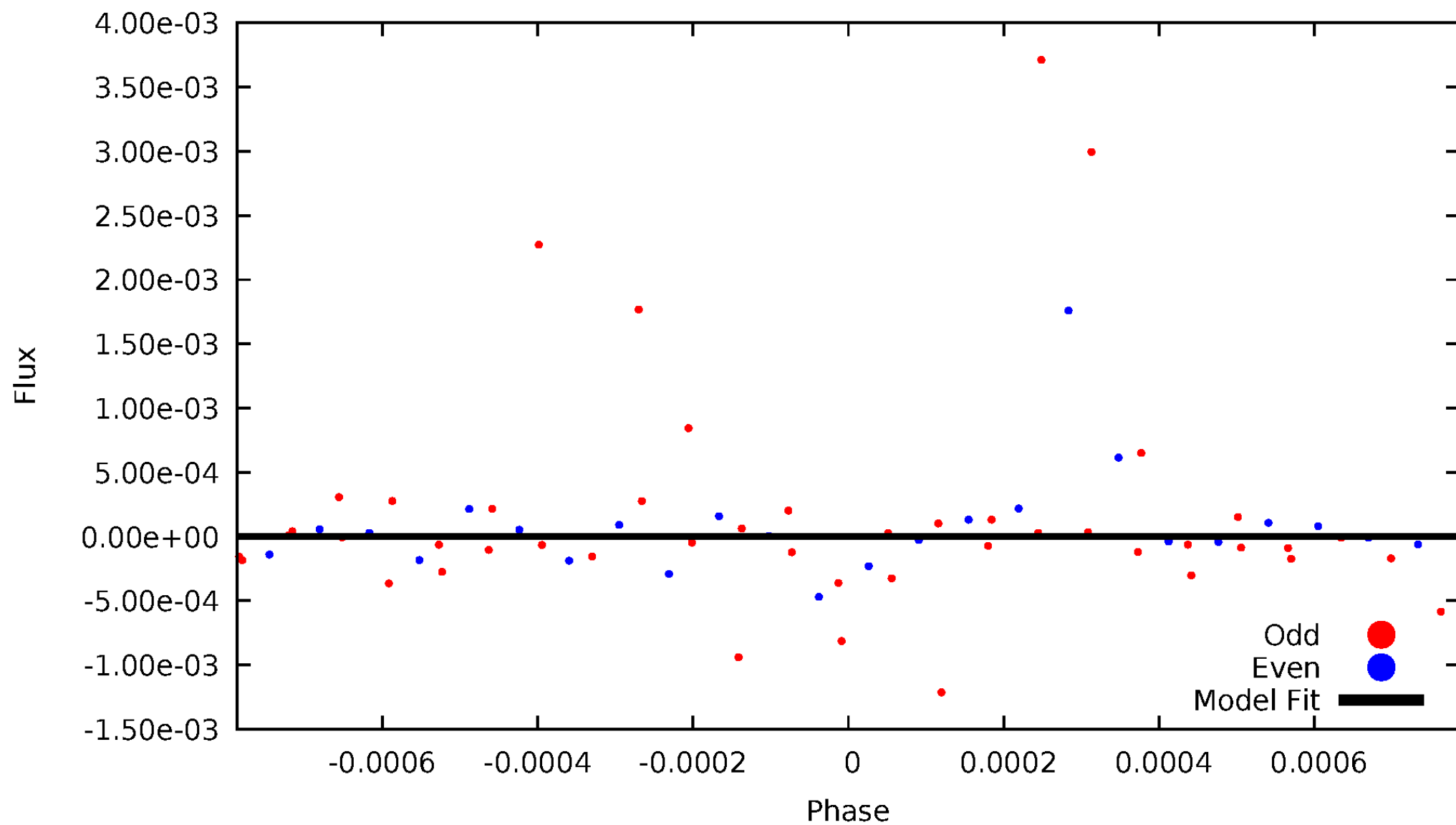


TCE 003239219-01



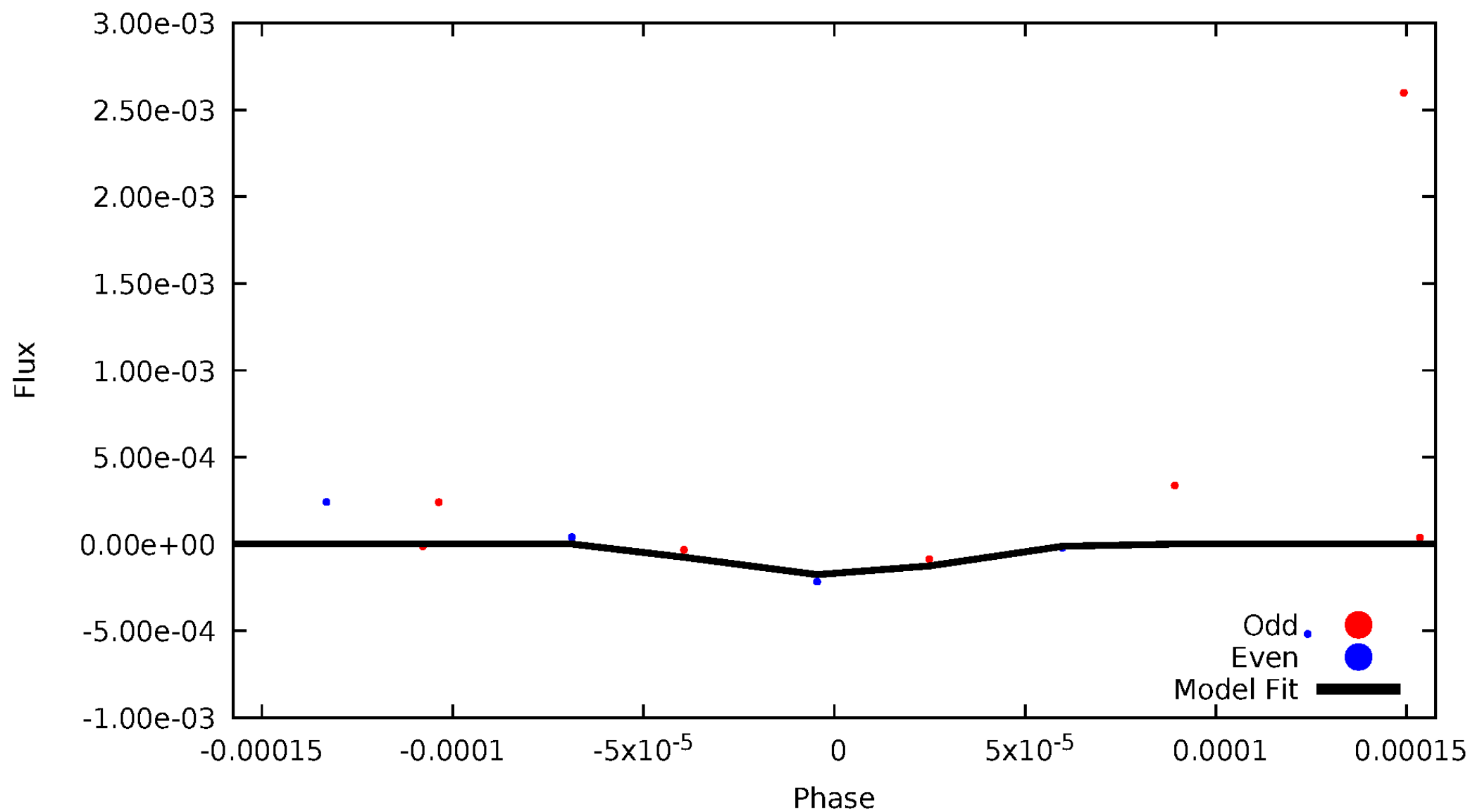
DV Odd/Even

TCE 003239219-01

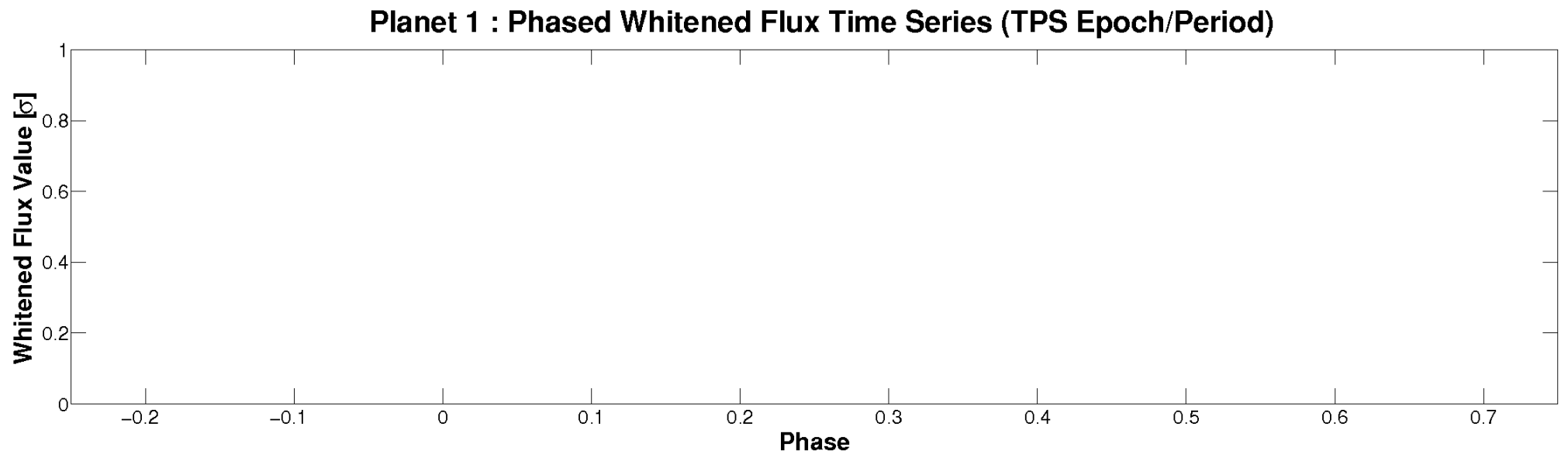
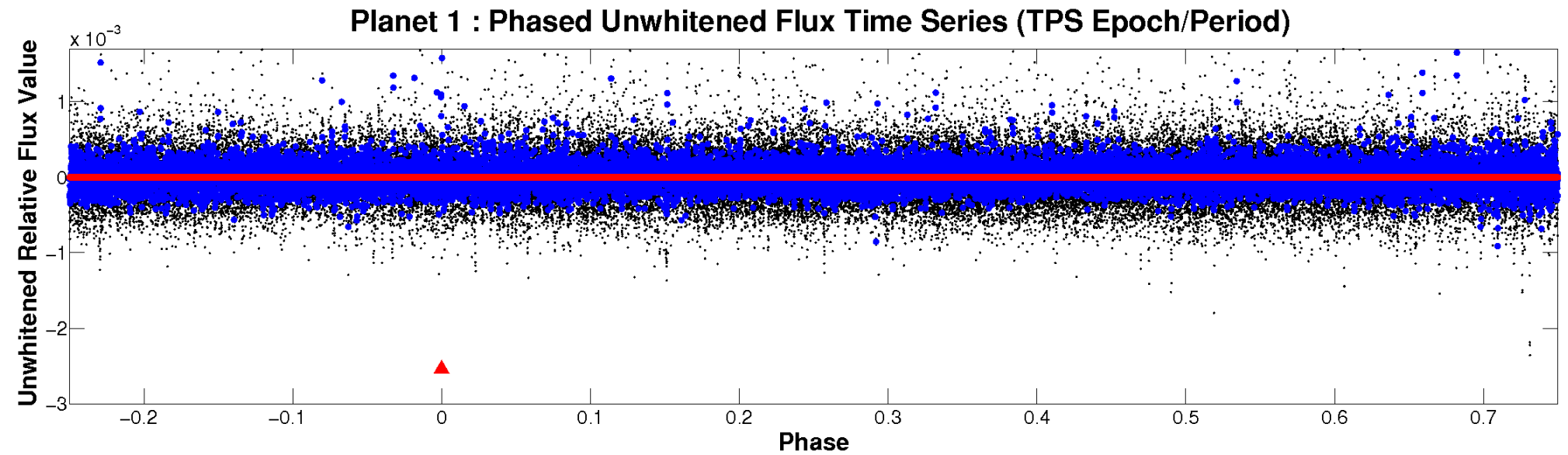


ALT Odd/Even

TCE 003239219-01

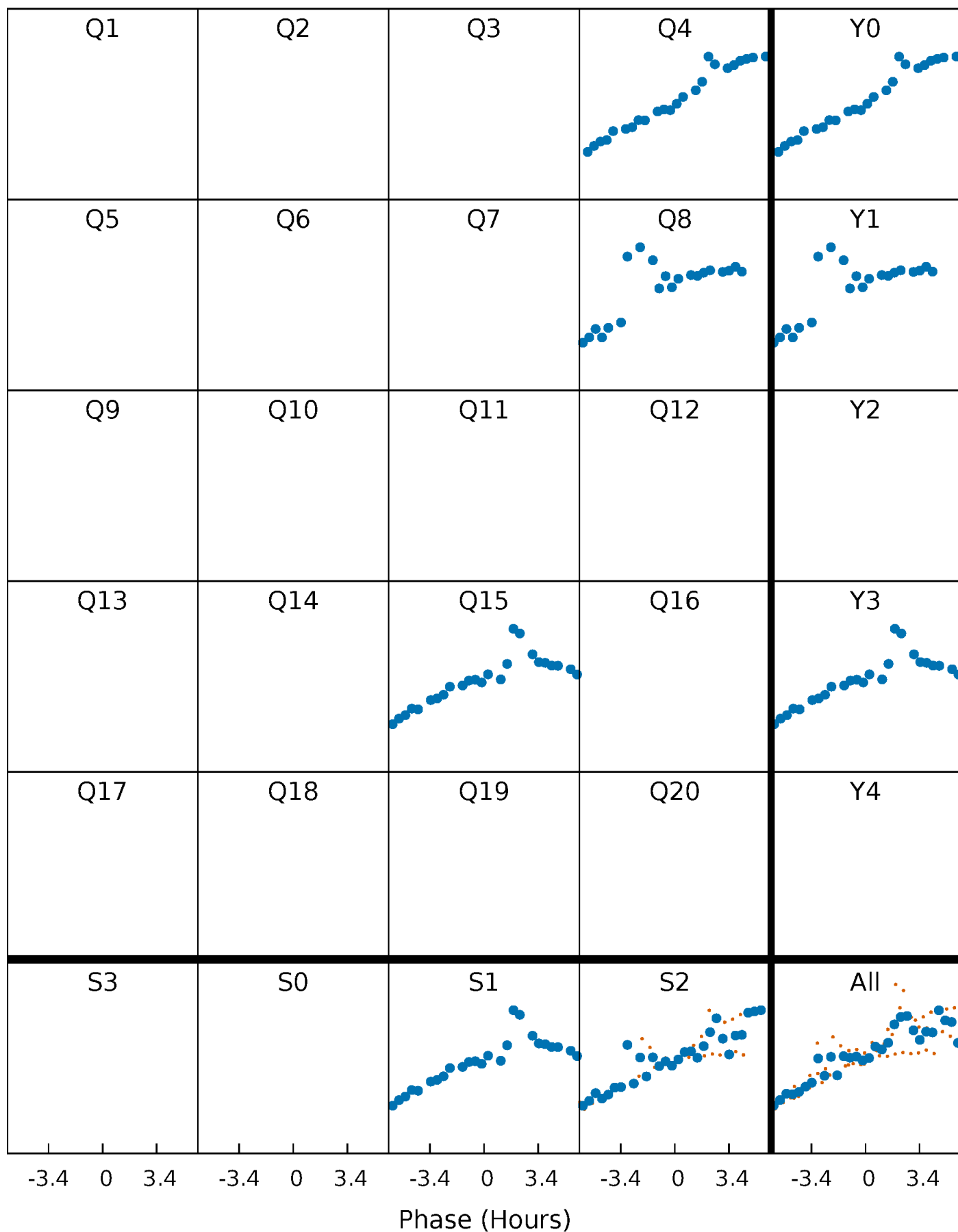


Non-Whitened Vs. Whitened Light Curve



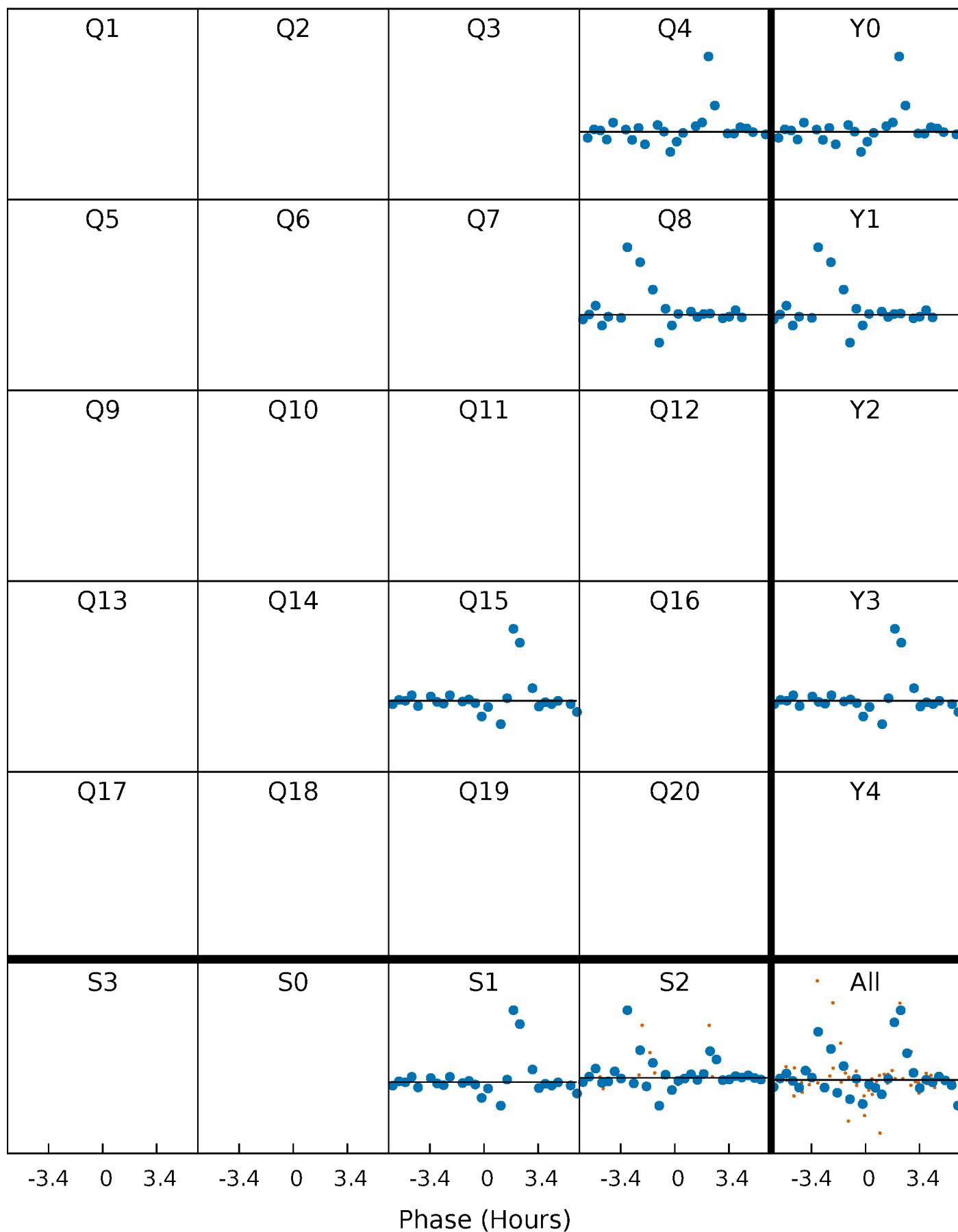
PDC Quarter-Phased Transit Curves

TCE 003239219-01 P=317.938176 Days $T_0=434.919599$ (BKJD)



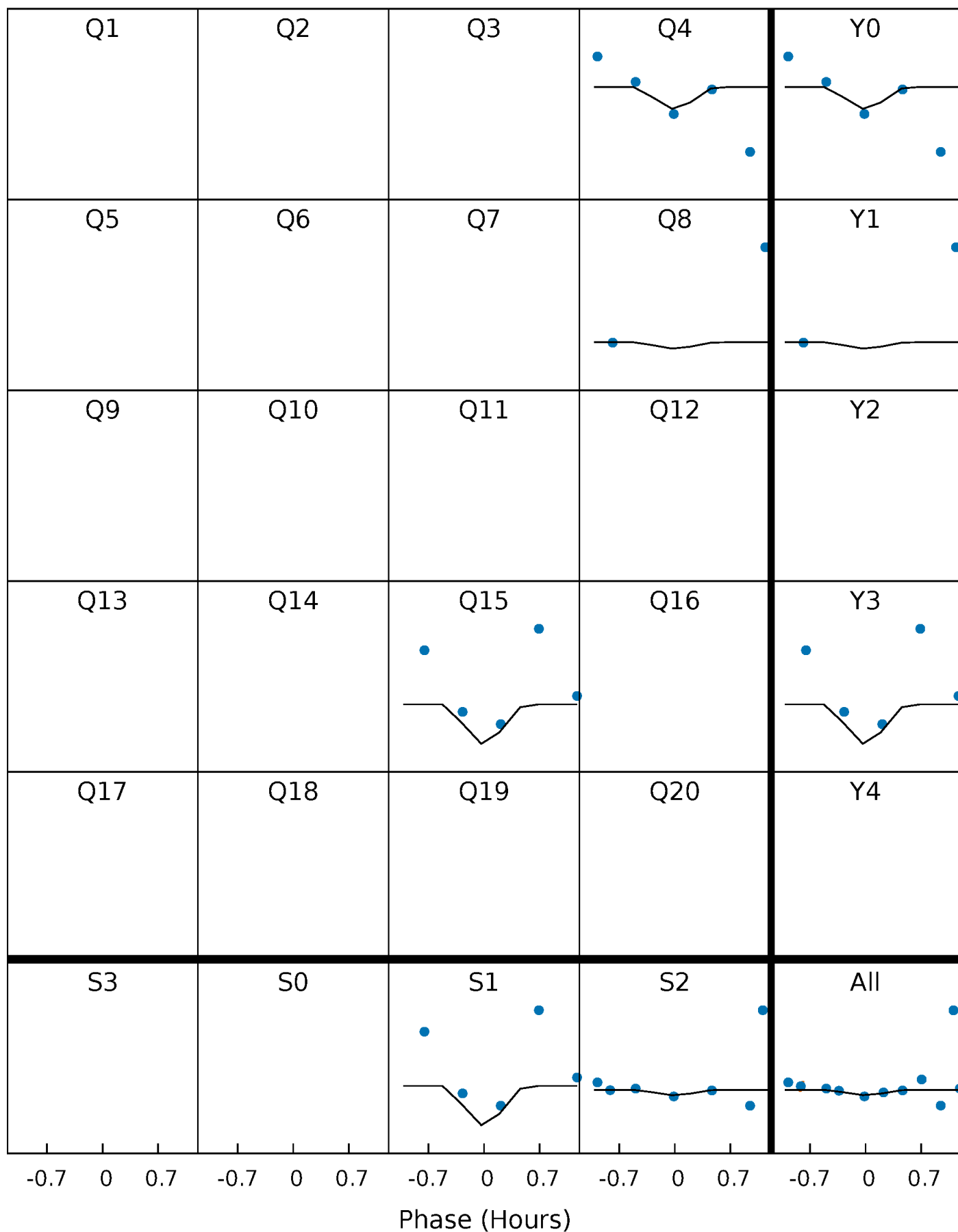
DV Quarter-Phased Transit Curves

TCE 003239219-01 P=317.938176 Days $T_0=434.919599$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

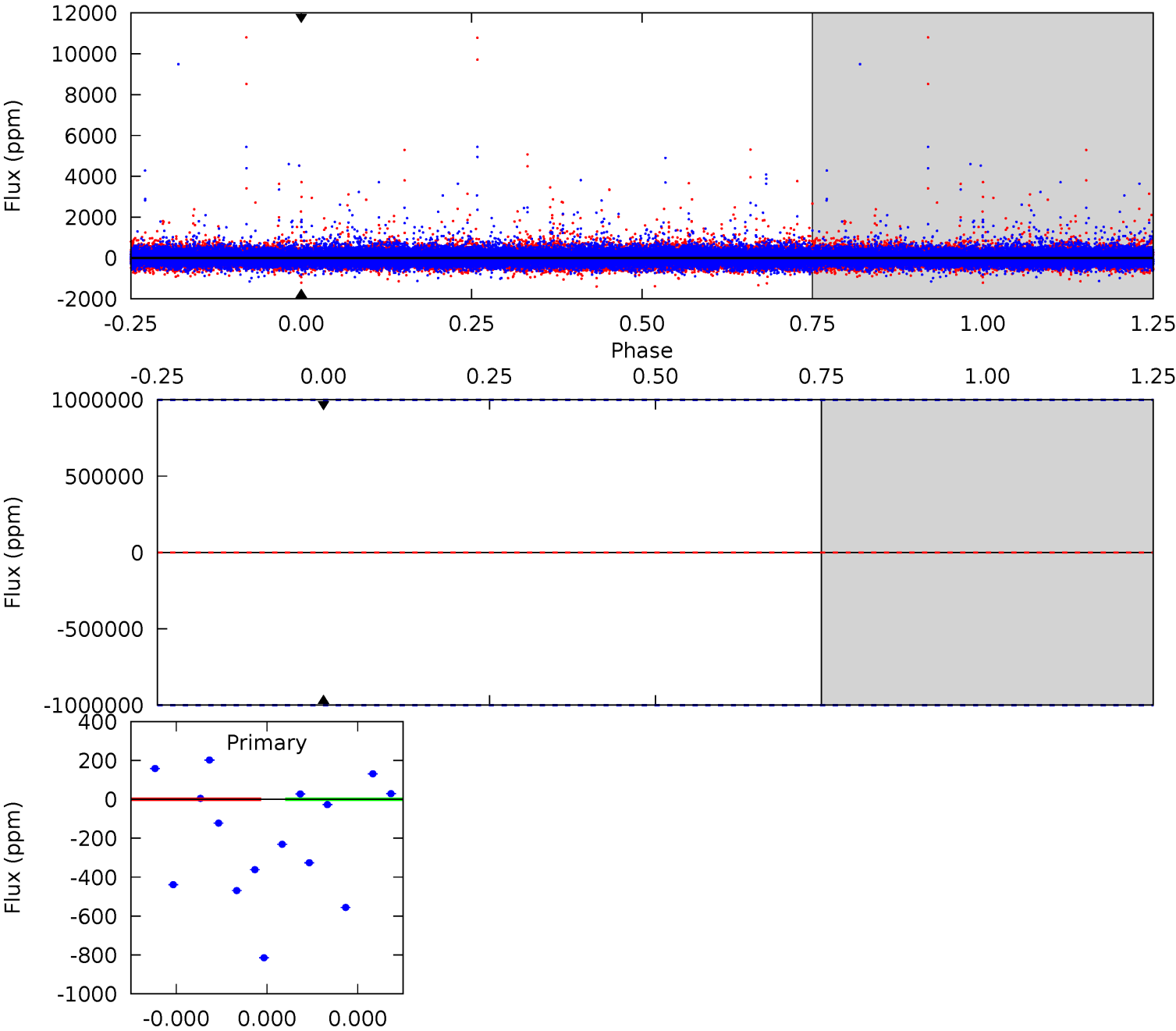
TCE 003239219-01 P=317.938176 Days $T_0=434.806799$ (BKJD)



DV Model-Shift Uniqueness Test

003239219-01, P = 317.938176 Days, E = 116.981423 Days

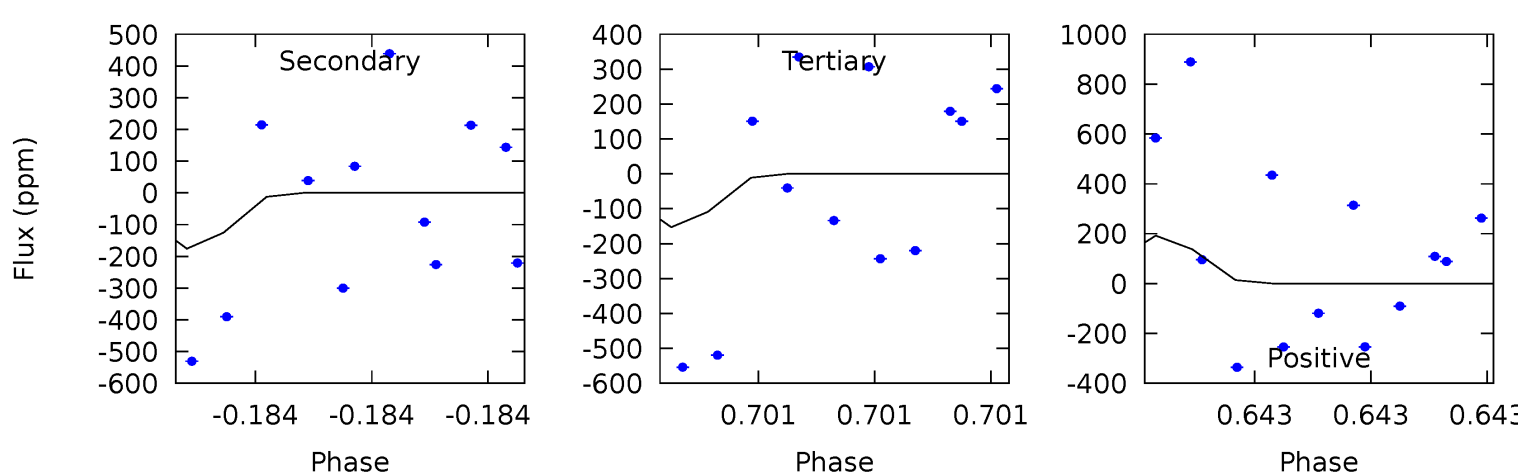
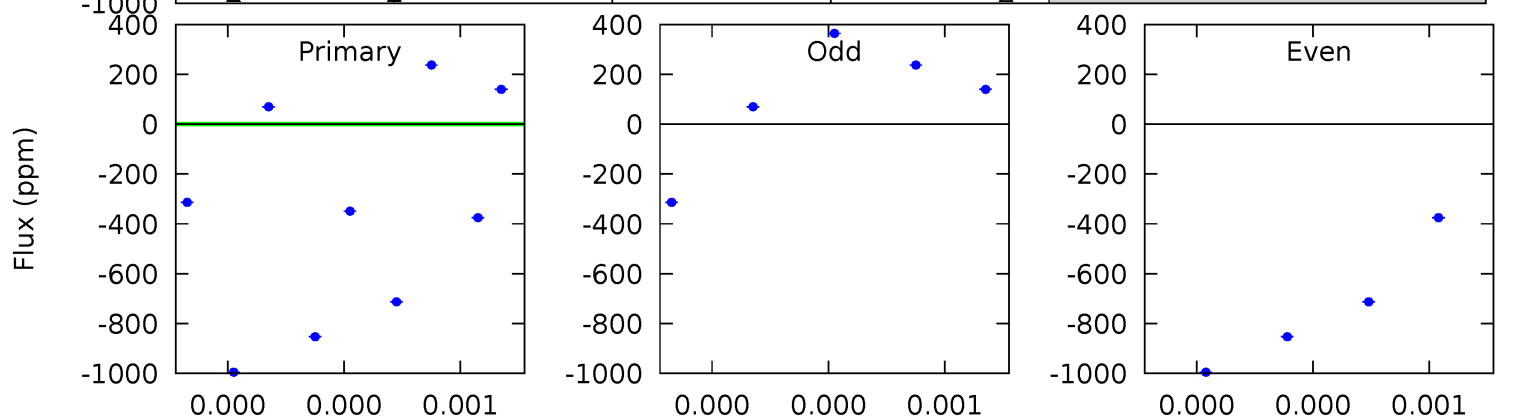
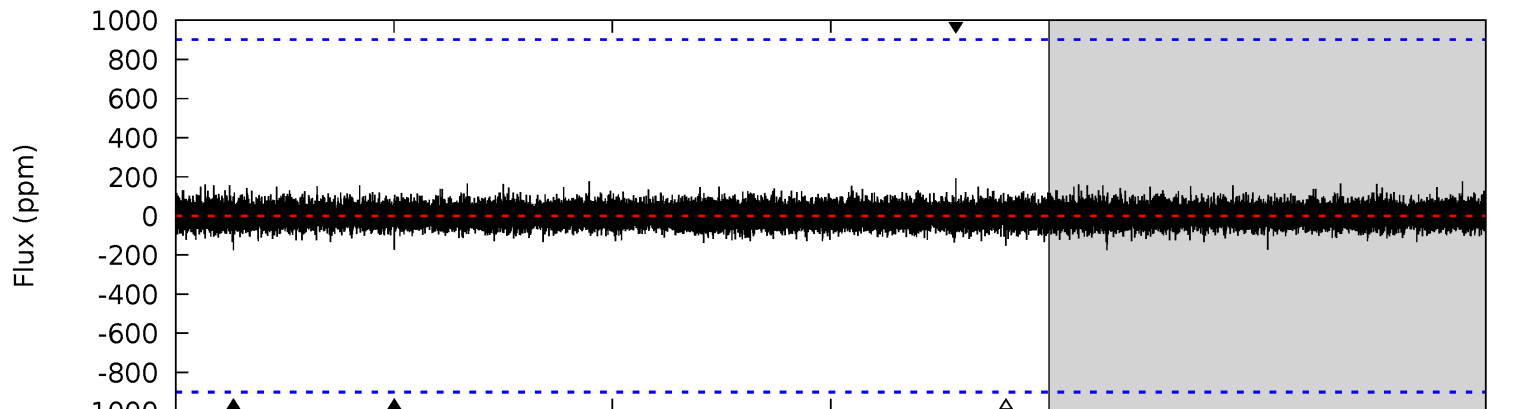
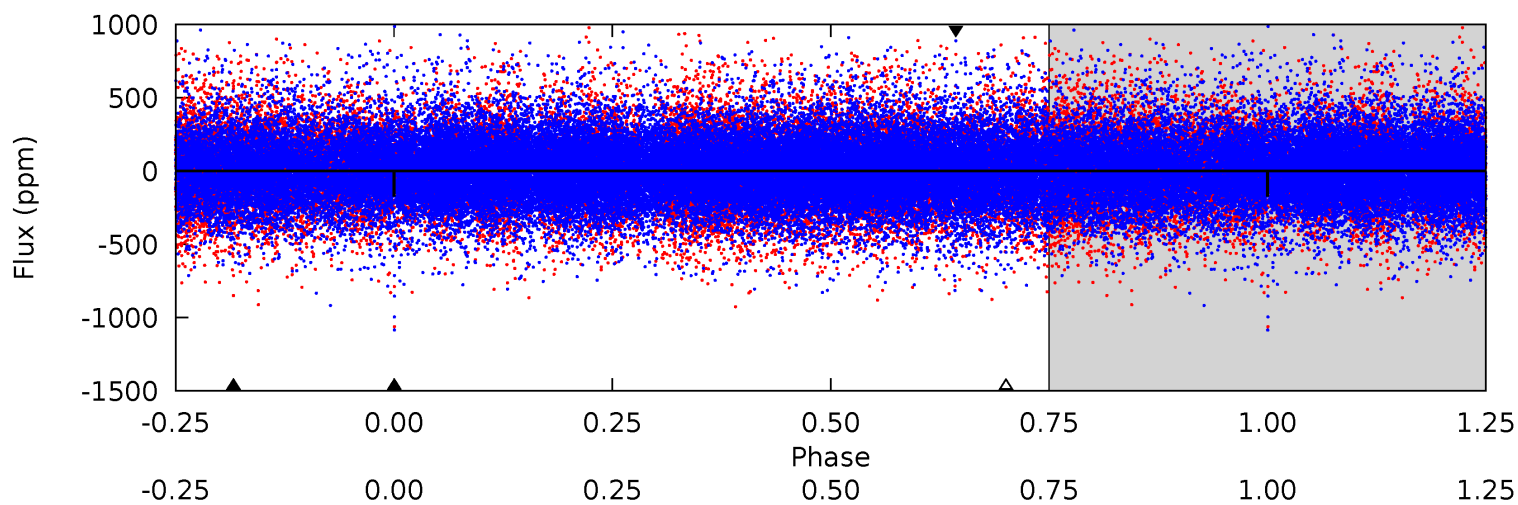
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003239219-01, P = 317.938176 Days, E = 116.868623 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.13	1.14	0.99	1.25	5.86	3.91	0.22	0.13	-0.12	0.15	-0.11	0.45	1.00	0.52	0.00



Stellar Parameters For KIC 003239219

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6082^{+82}_{-82}	$4.249^{+0.156}_{-0.104}$	$-0.080^{+0.150}_{-0.150}$	$1.275^{+0.211}_{-0.211}$	$1.053^{+0.096}_{-0.064}$	$0.715^{+0.517}_{-0.238}$
	+1%/-1%	+4%/-2%	+188%/-188%	+17%/-17%	+9%/-6%	+72%/-33%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 003239219-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$10.96^{+11.44}_{-7.78}$	437^{+20}_{-22}	-4695^{+26852}_{-16904}	$-7826.056^{+740468.725}_{-661663.541}$
Alt.	-176 ± 154	$10.37^{+9.93}_{-7.39}$	437^{+18}_{-22}	3021^{+1579}_{-842}	560^{+6840}_{-521}

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 $A_{obs} \gg 1.0$

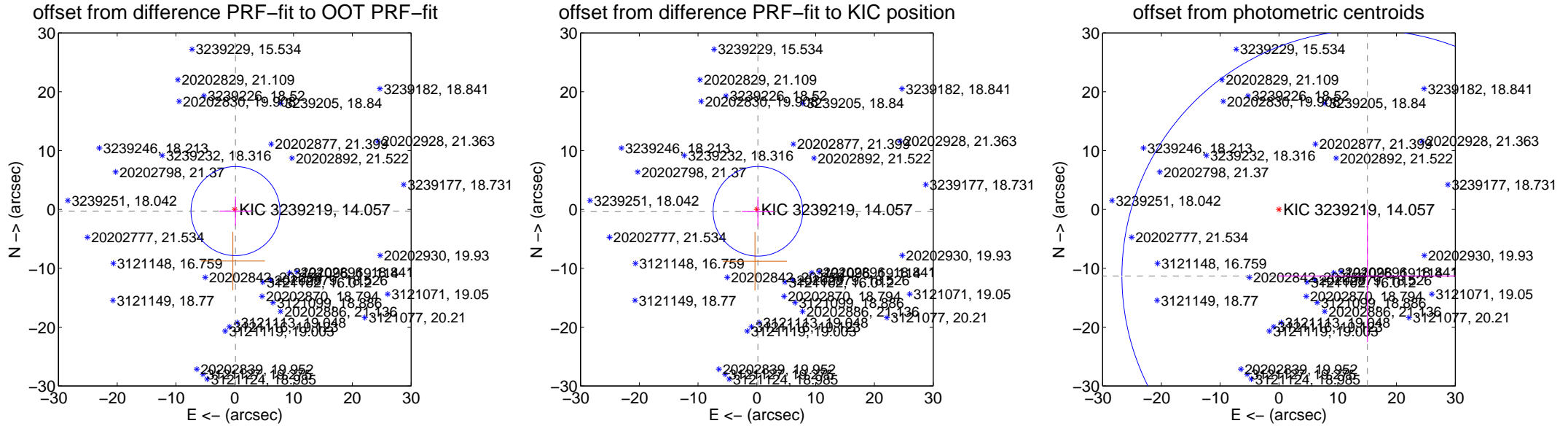
DV Centroid Data

Supplemental centroid analysis for 003239219-01. Kepler magnitude: 14.06. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

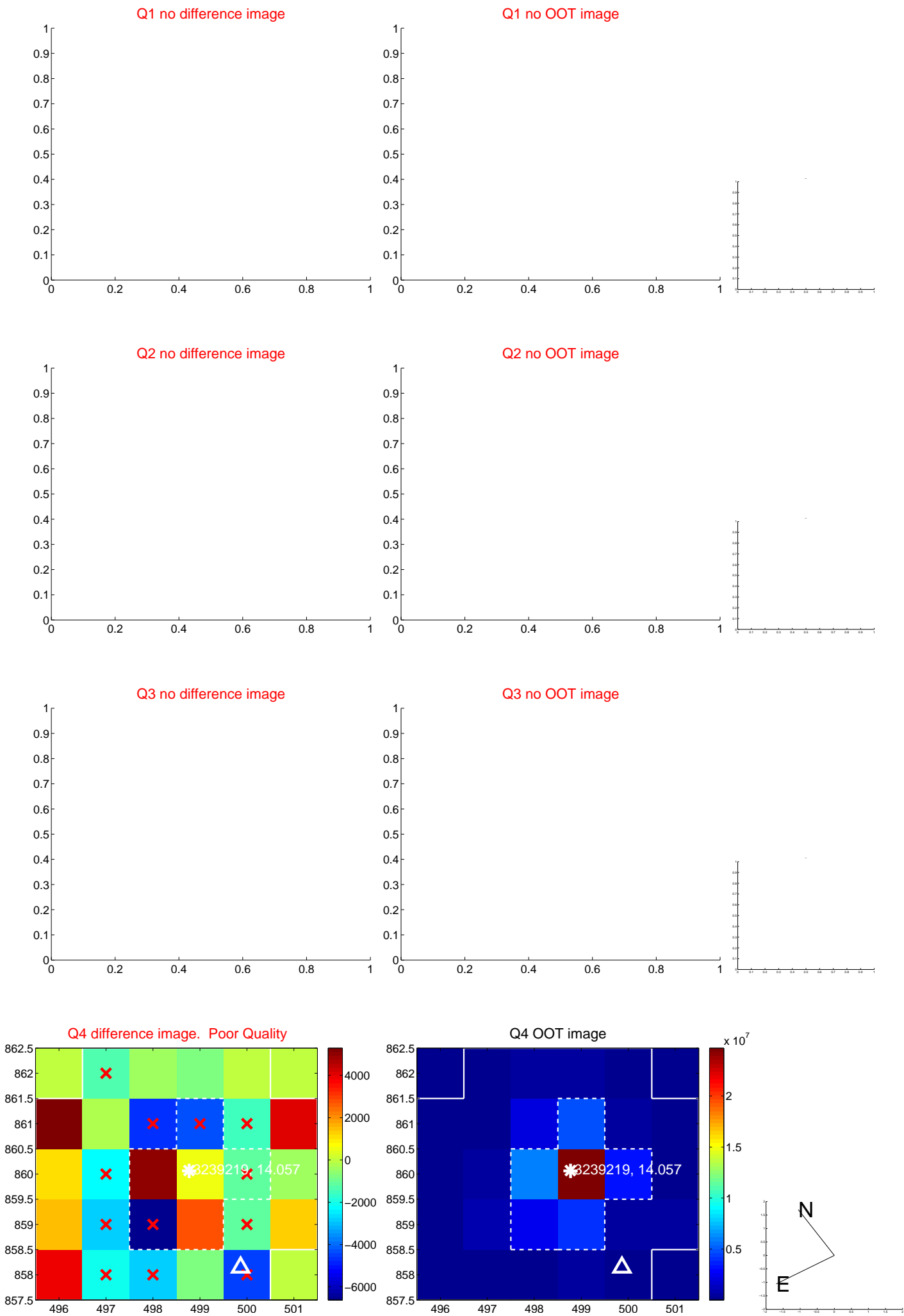
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.310 ± 2.522	0.12	-0.126 ± 2.722	-0.284 ± 2.481
PRF-fit source offset from KIC position	0.365 ± 2.539	0.14	-0.176 ± 2.722	-0.320 ± 2.481
photometric centroid source offset	18.83 ± 13.92	1.35	-15.06 ± 15.22	-11.30 ± 11.26

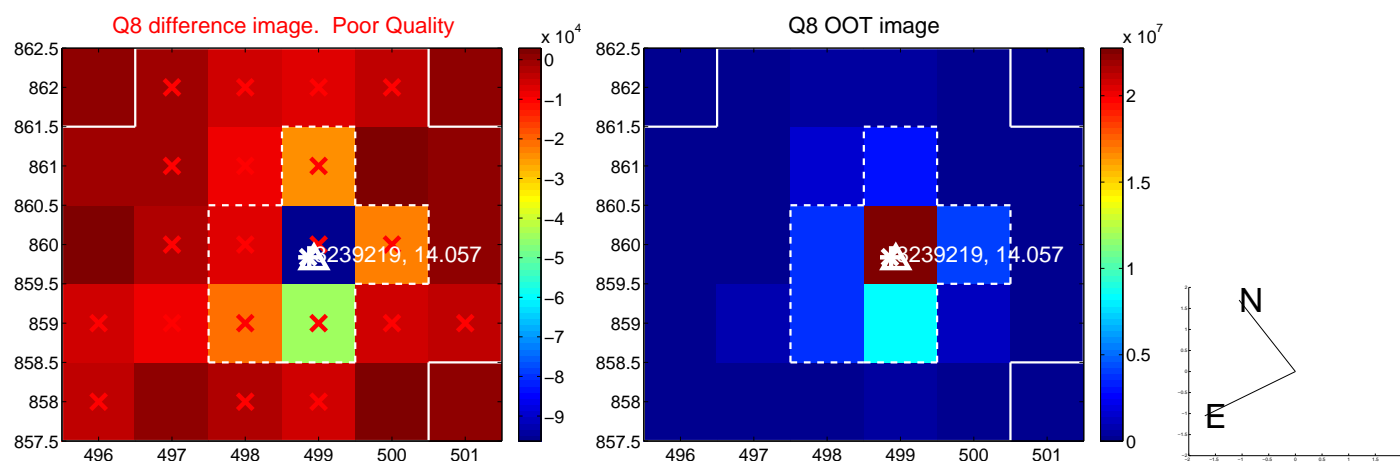


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



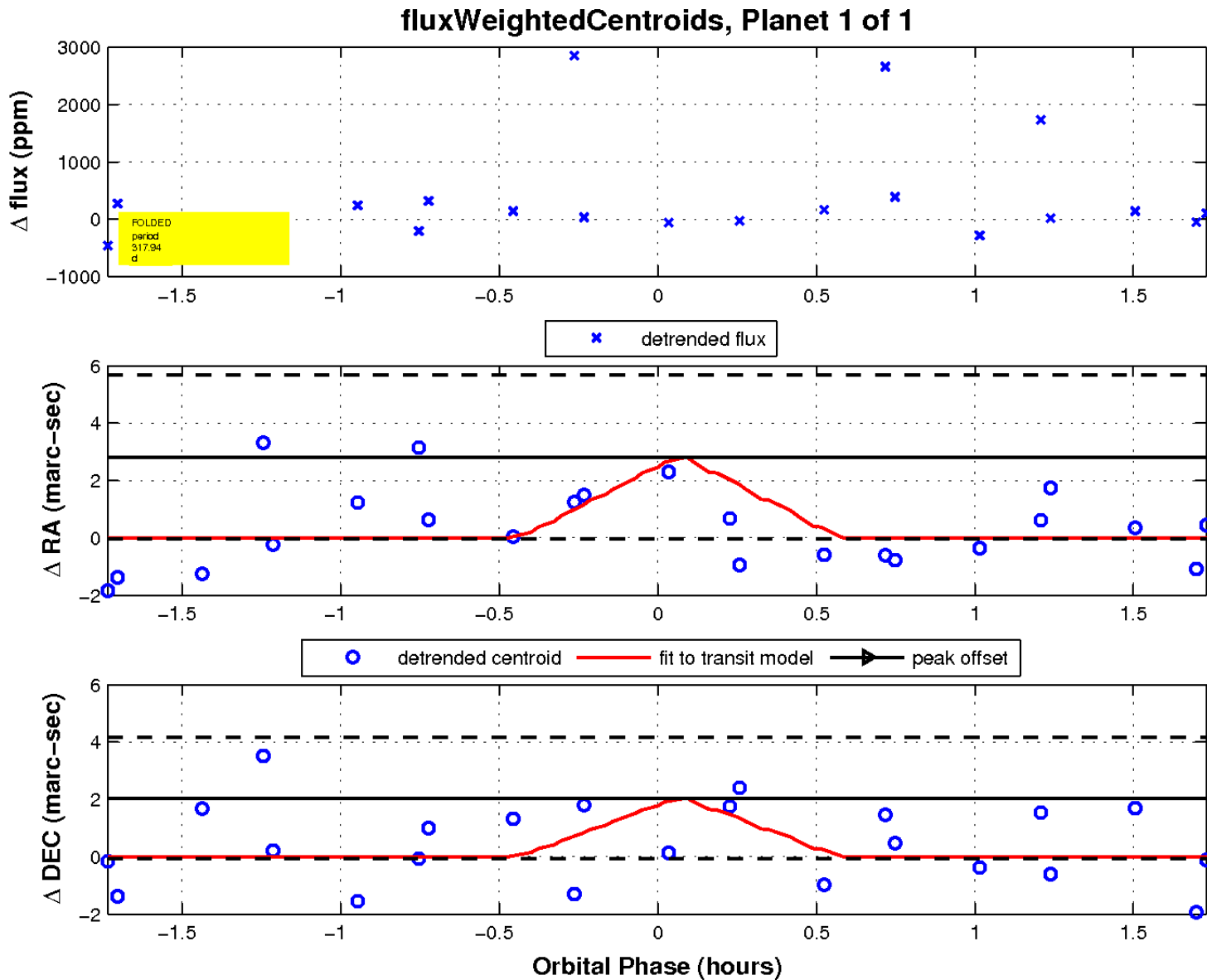
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

