

KIC 003338660

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})
003338660-01	OBS	3795.01	1.873297	131.841336	194167.9	5.000	8548.6	-1.0	1.17	5992	52.00	1839.69

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003338660-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—MOD_SEC_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.

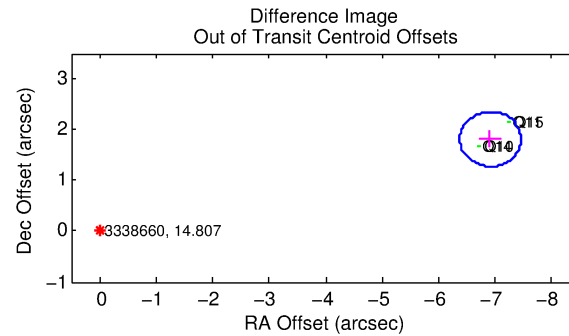
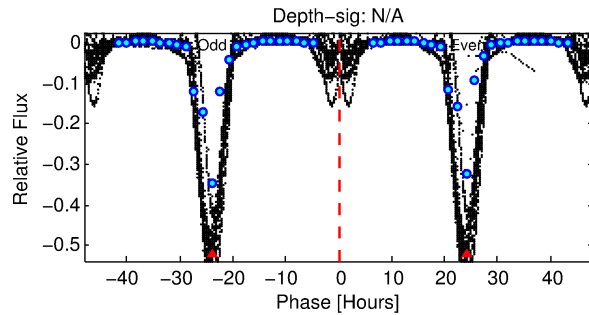
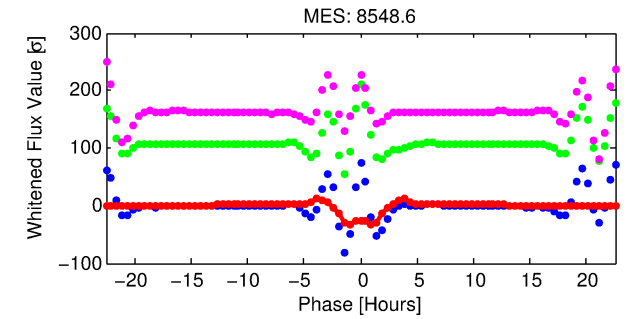
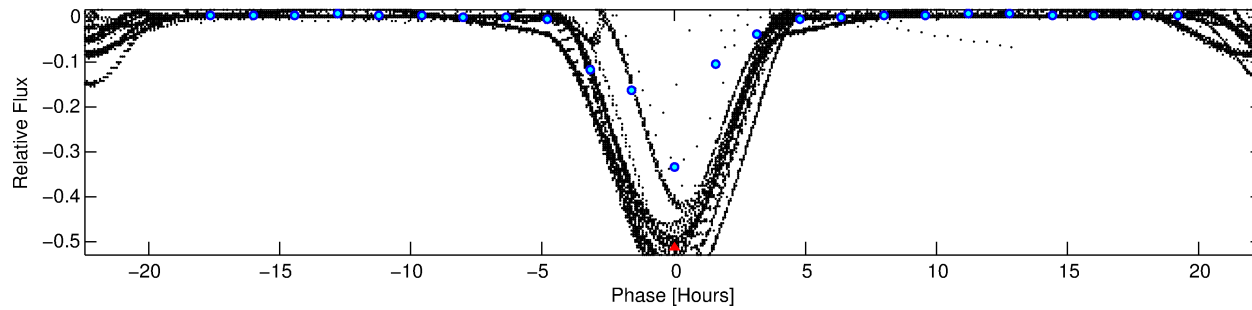
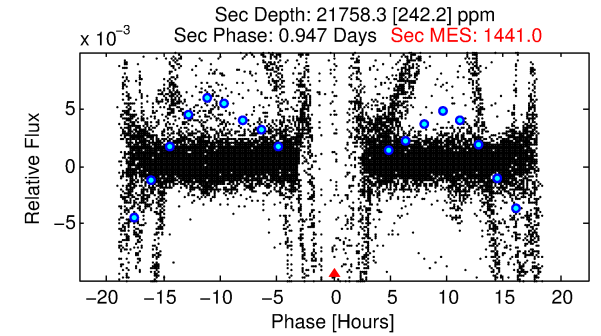
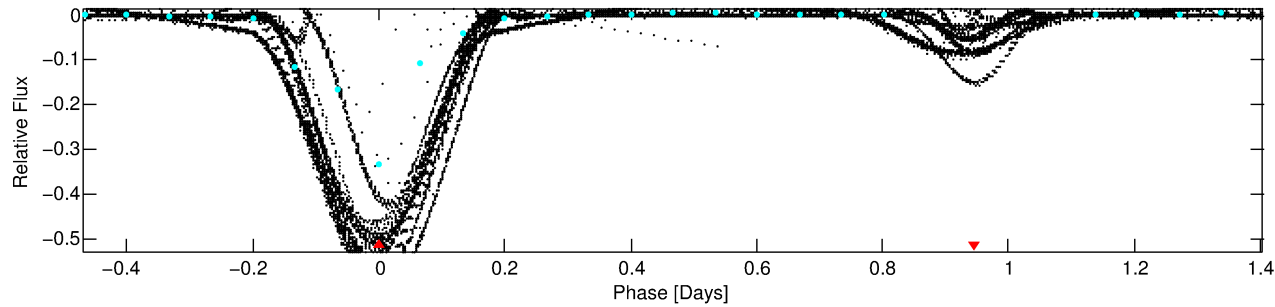
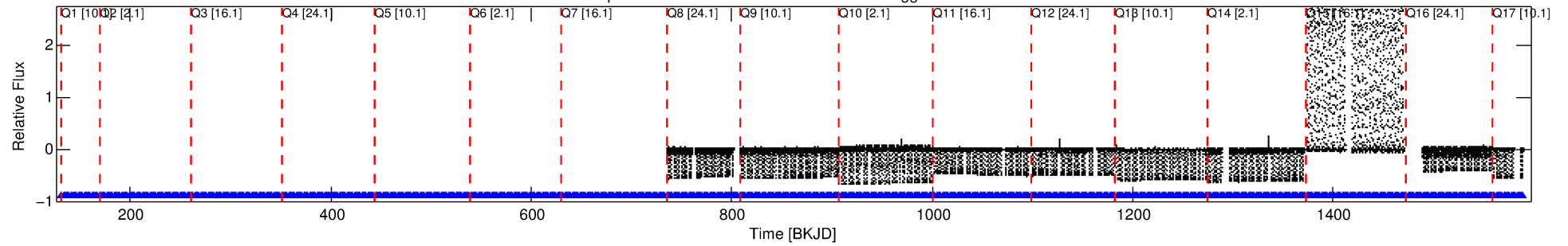
Ephemeris Match Information For 003338660-01

No Significant Match Found

DV One-Page Summary

KIC: 3338660 Candidate: 1 of 1 Period: 1.873 d
KOI: K03795 Corr: No Ephemeris Match

Kp: 14.81 R*: 1.17 Rs Teff: 5992.0 K Logg: 4.28 Fe/H: -0.220



TPS TCE Results:

Period = 1.87330 d
Epoch = 131.8413 BKJD

DV fit results are unavailable

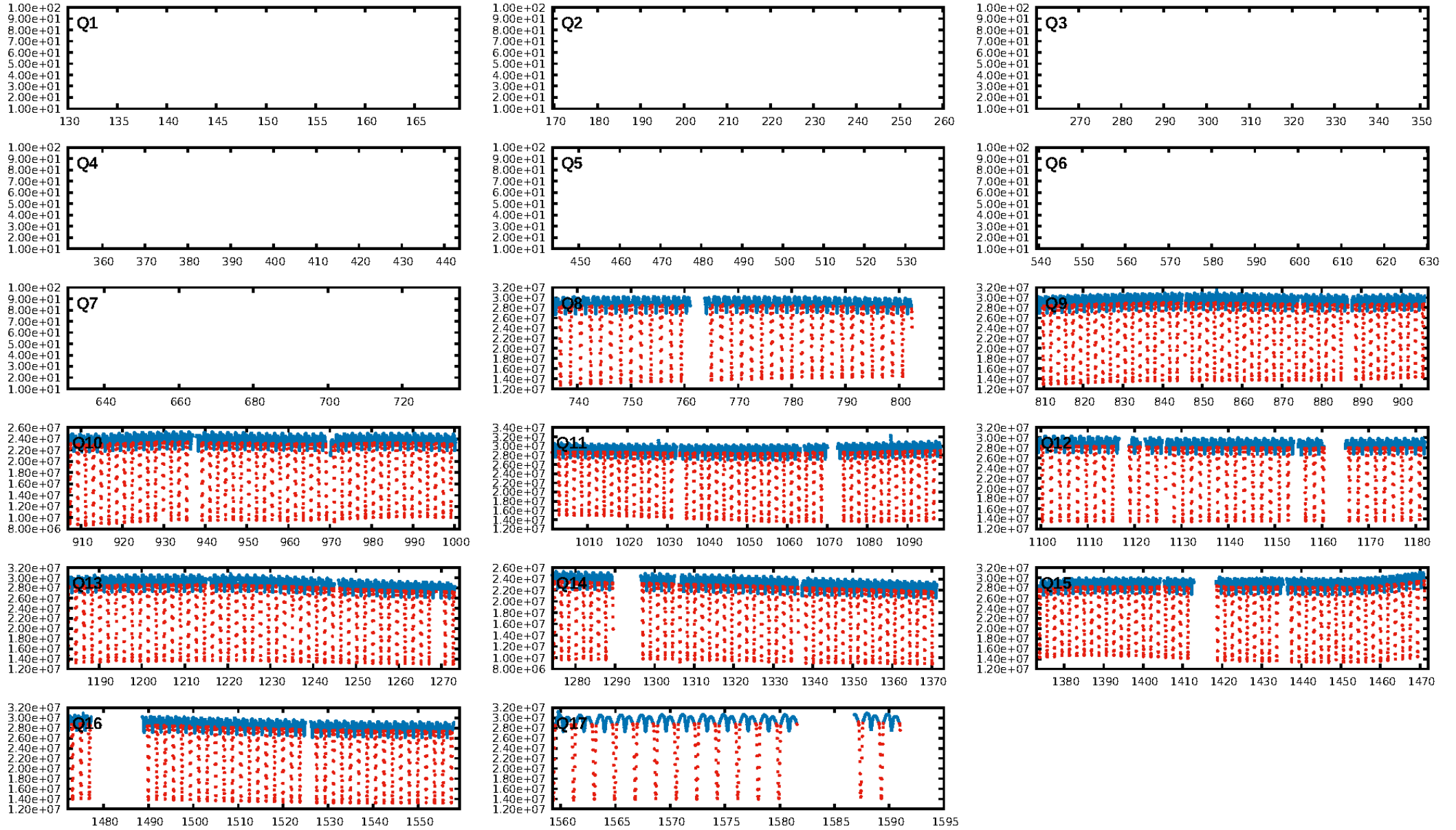
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [407/407]
GhostDiagnostic-chr: 0.7869
Centroid-sig: 0.0%
Centroid-so: 3.924 arcsec [4012.31σ]
OotOffset-rm: 7.146 arcsec [39.74σ]
KicOffset-rm: 0.118 arcsec [1.72σ]
OotOffset-st: 2/2/0/0 [4]
KicOffset-st: 2/2/3/3 [10]
DiffImageQuality-fgm: 1.00 [10/10]
DiffImageOverlap-fno: 1.00 [10/10]

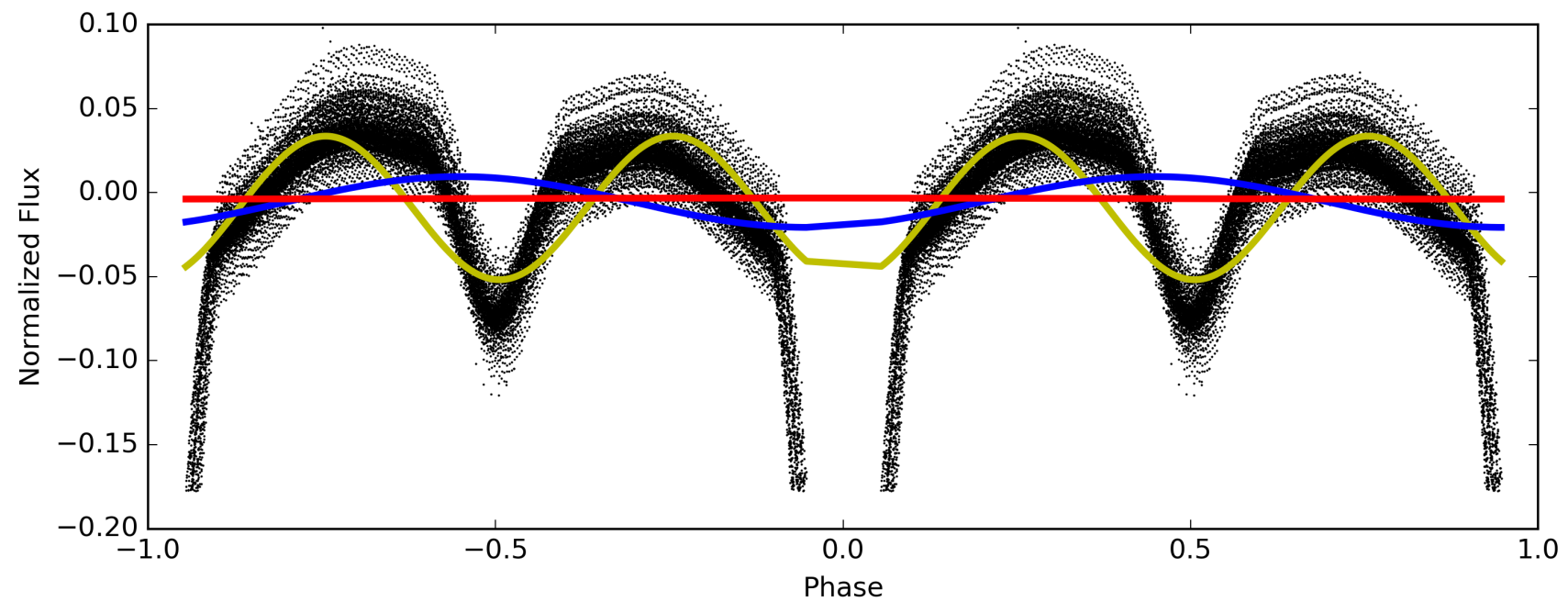
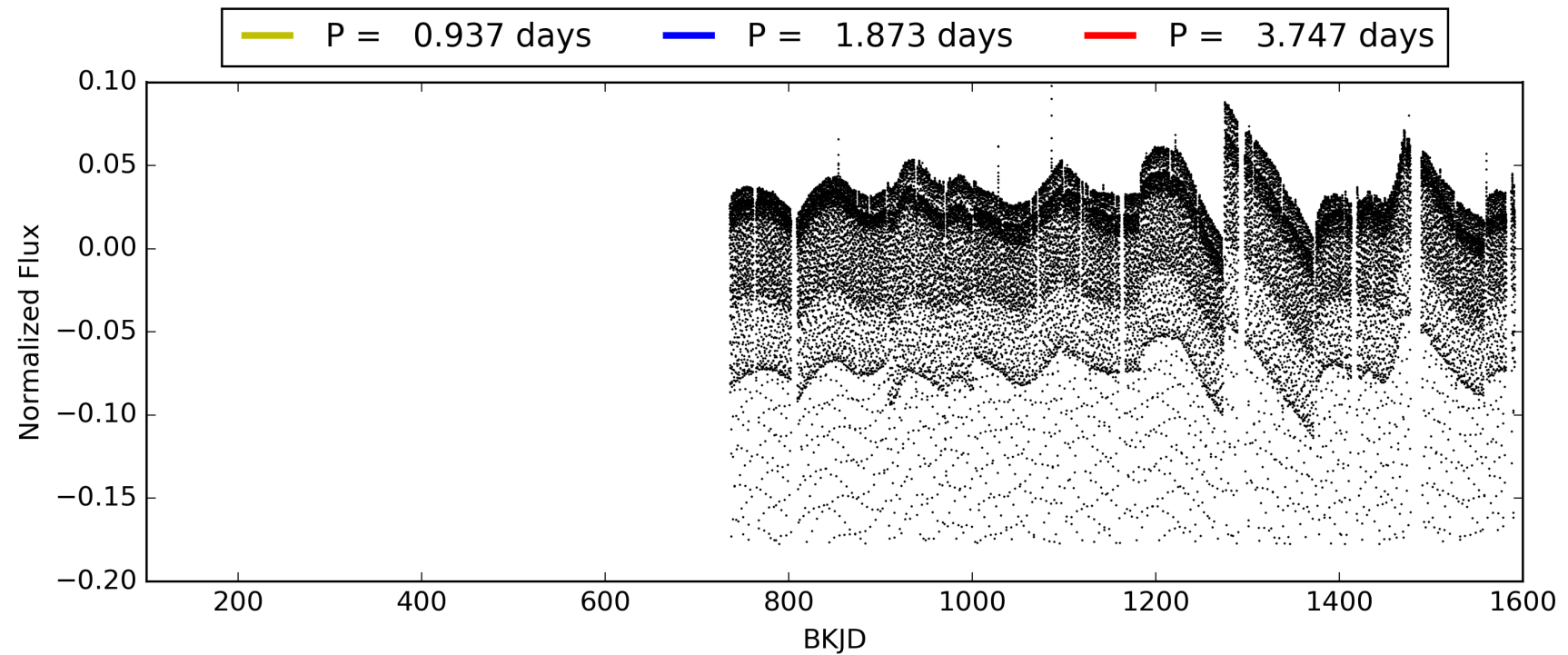
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:16:27 Z

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

TCE 003338660-01, PDC Light Curves

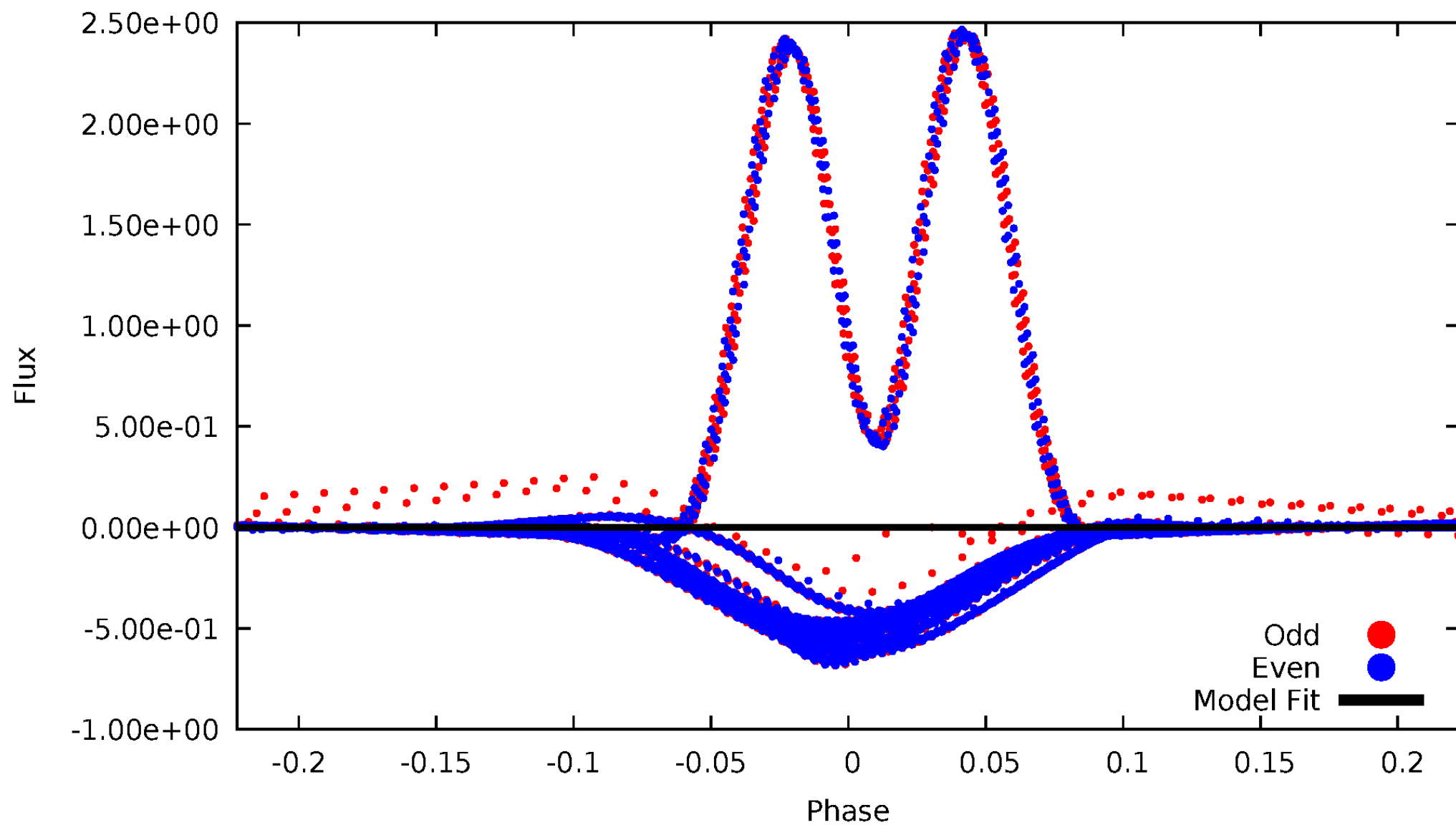


TCE 003338660-01



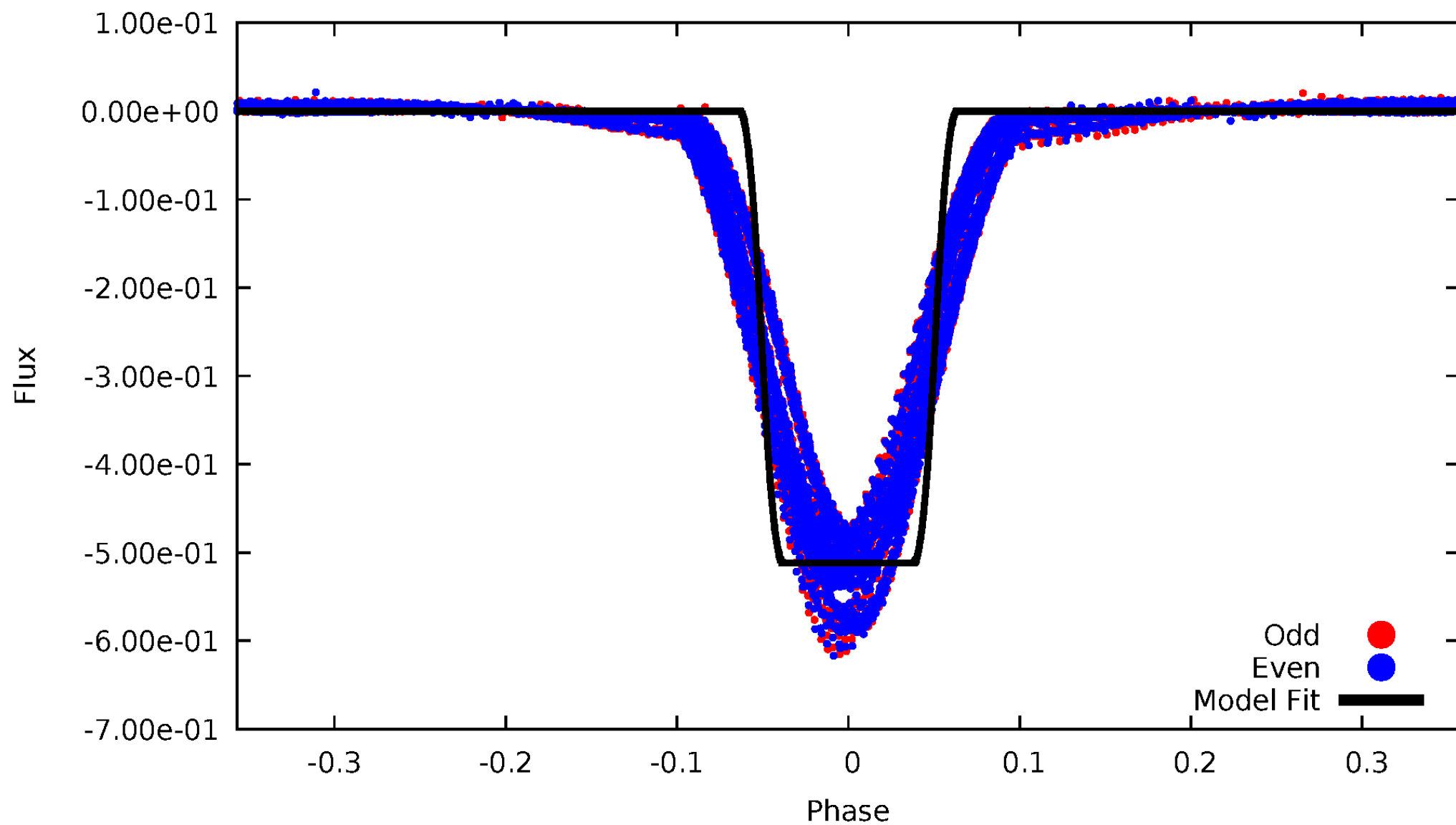
DV Odd/Even

TCE 003338660-01



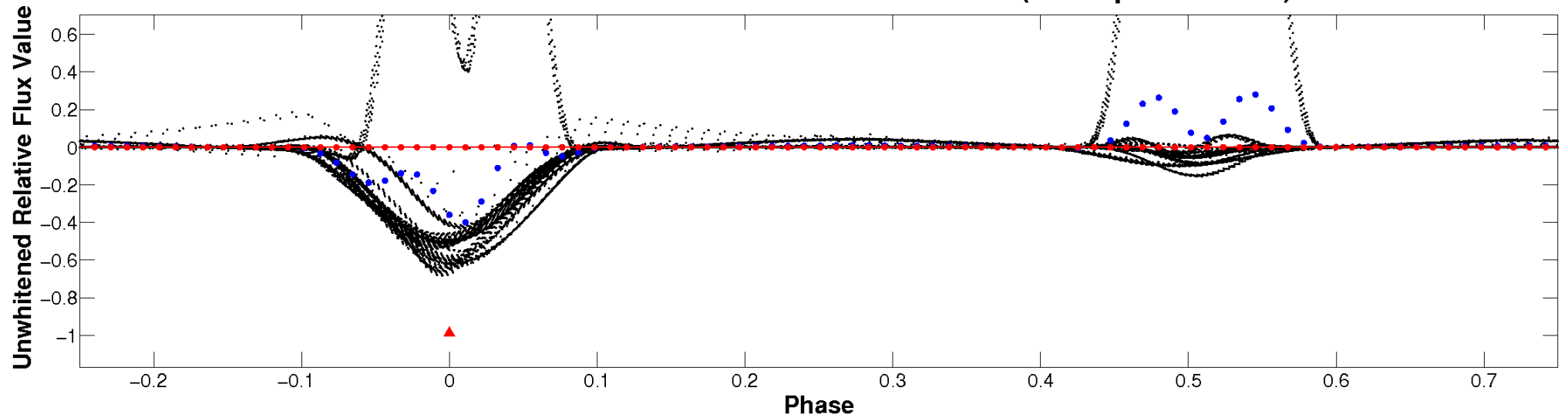
ALT Odd/Even

TCE 003338660-01

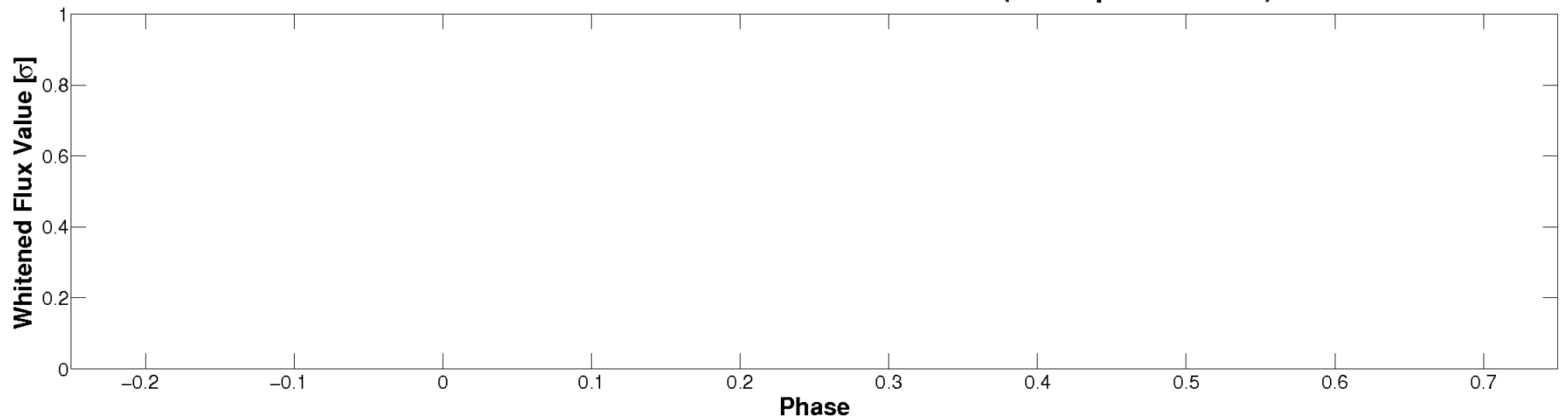


Non-Whitened Vs. Whitened Light Curve

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

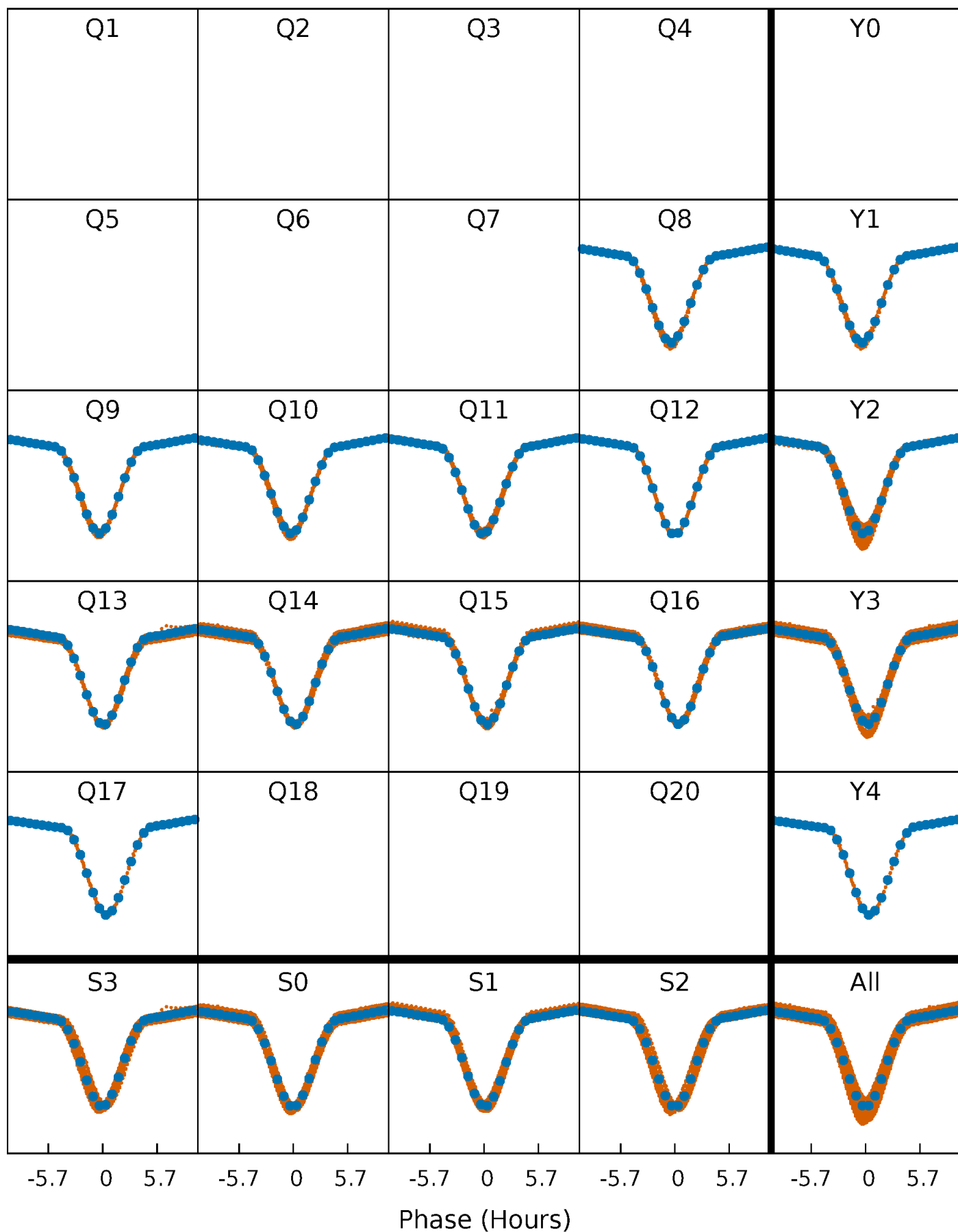


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



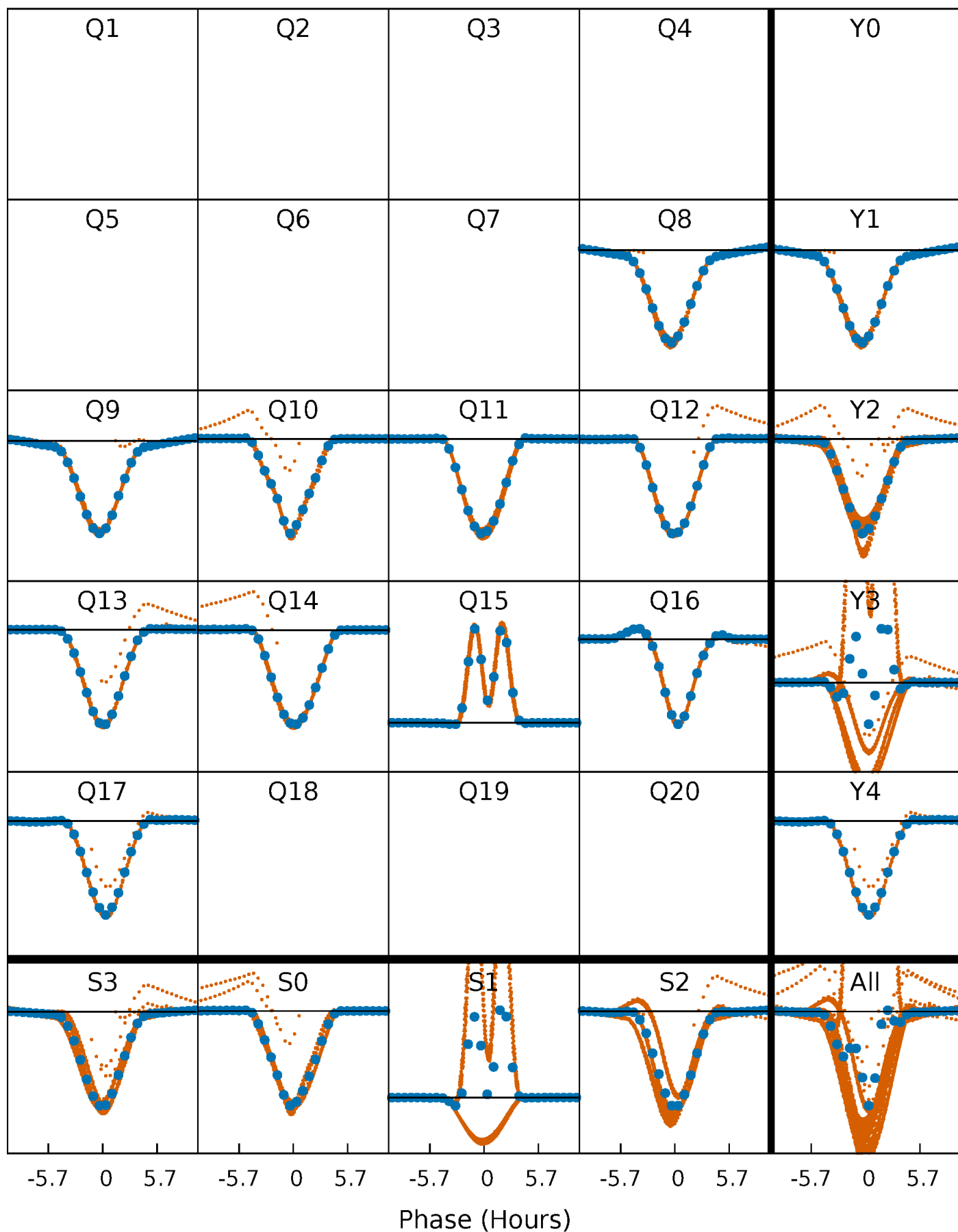
PDC Quarter-Phased Transit Curves

TCE 003338660-01 P= 1.873297 Days $T_0=131.841336$ (BKJD)



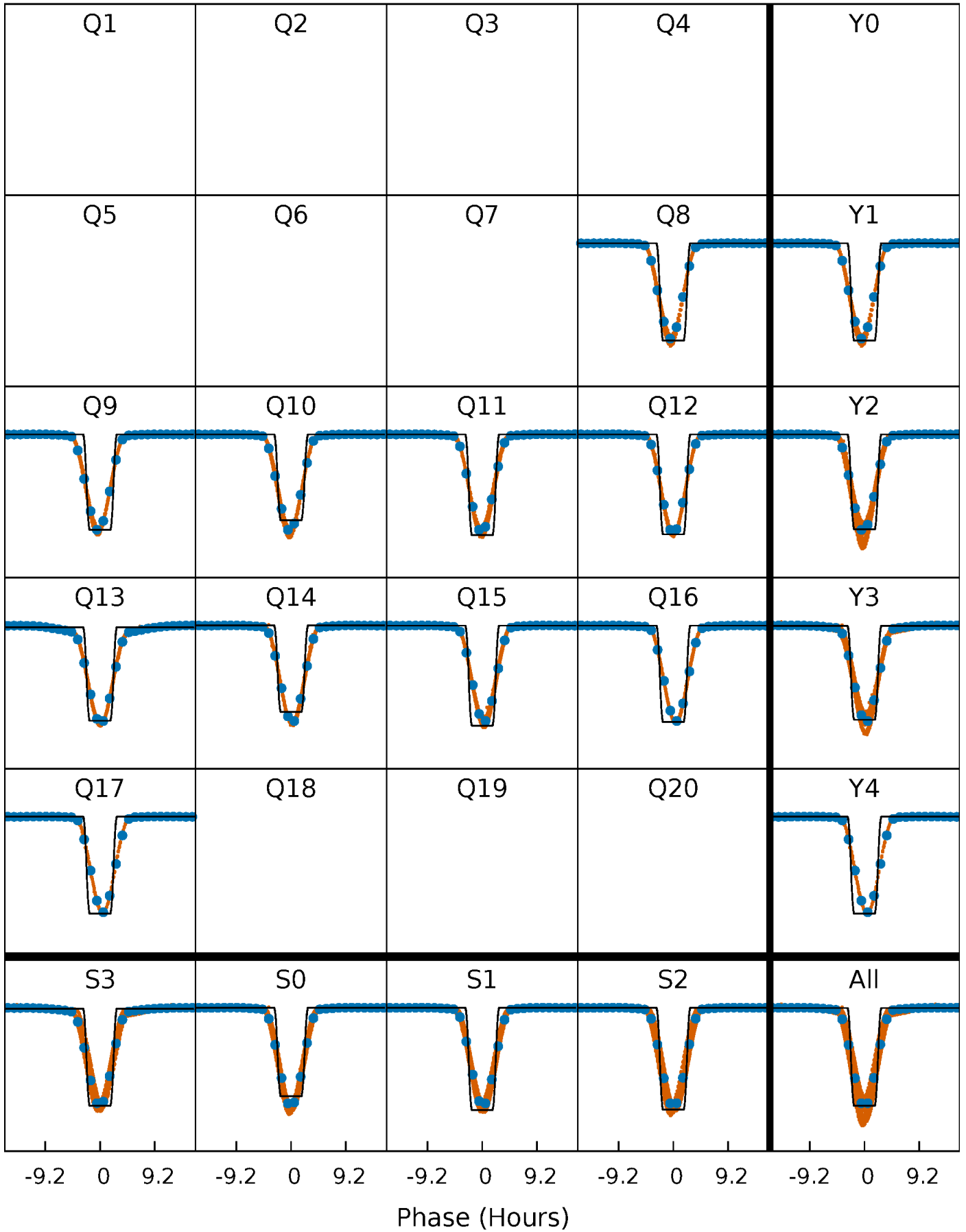
DV Quarter-Phased Transit Curves

TCE 003338660-01 P= 1.873297 Days $T_0=131.841336$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

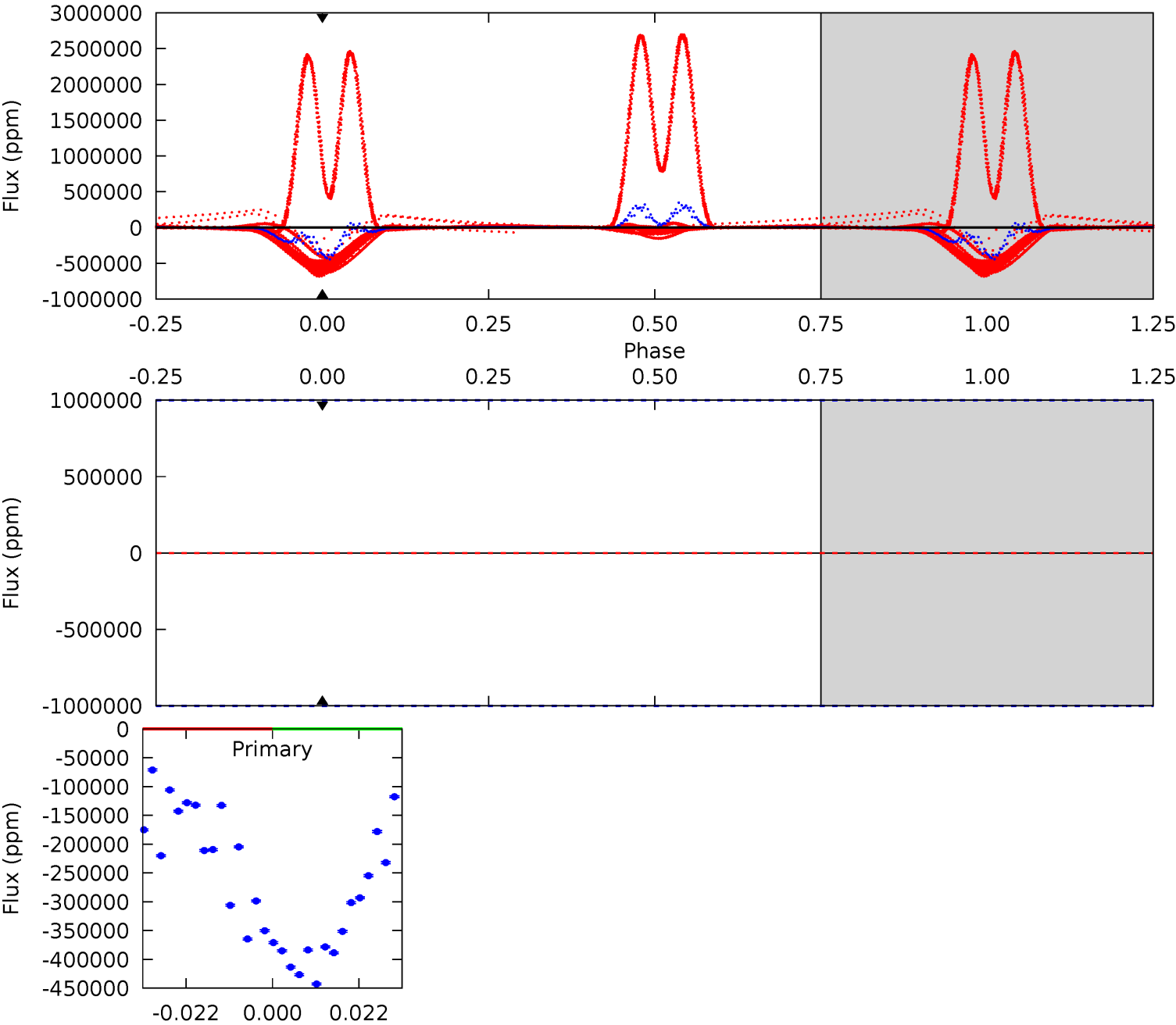
TCE 003338660-01 P= 1.873297 Days $T_0=131.841556$ (BKJD)



DV Model-Shift Uniqueness Test

003338660-01, P = 1.873297 Days, E = 131.841336 Days

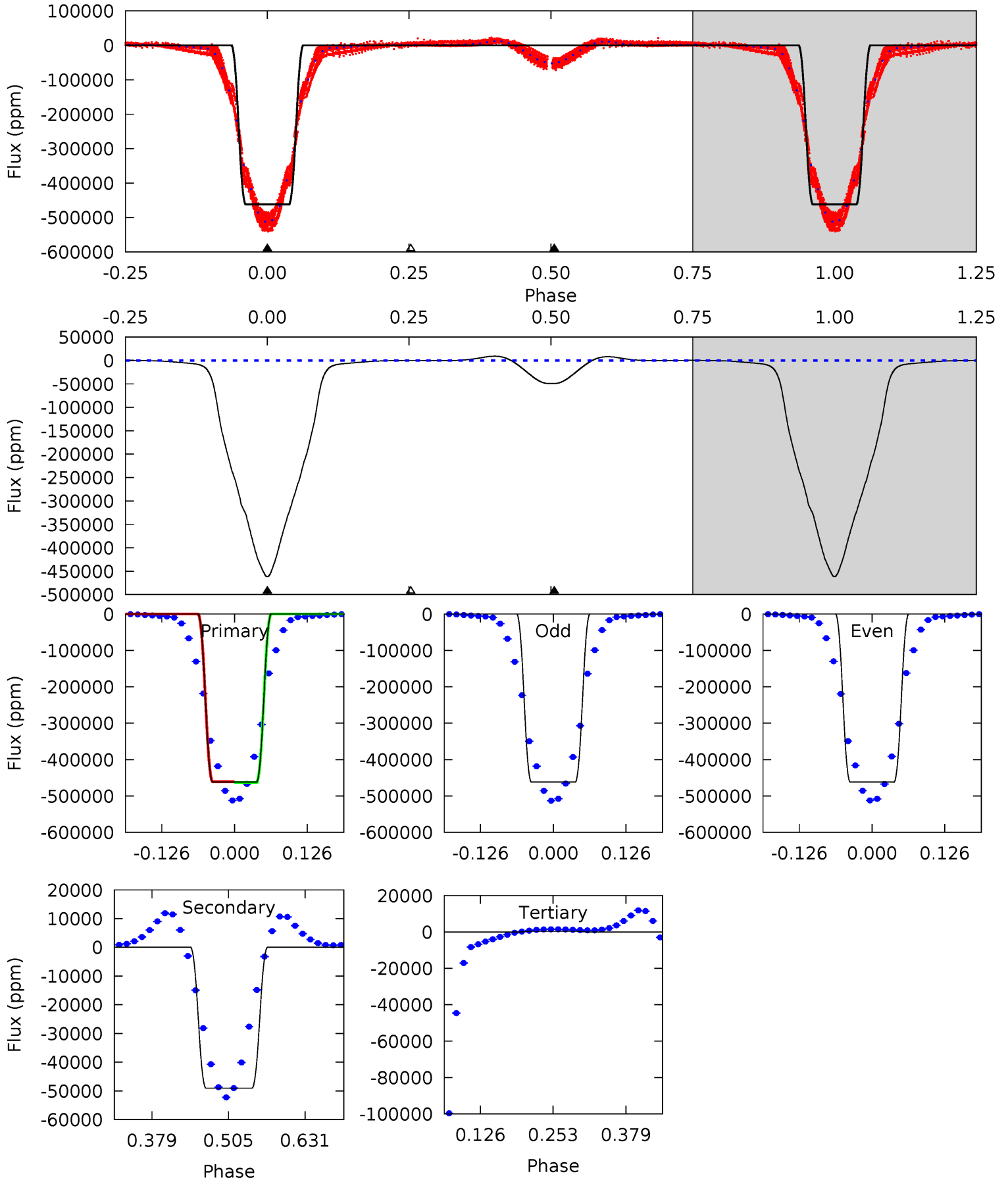
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003338660-01, P = 1.873297 Days, E = 131.841556 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5991	635.9	-4.86	0	4.52	1.53	31.9	5996	5991	640.7	635.9	0.80	1.02	0.02	0



Stellar Parameters For KIC 003338660

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5992^{+189}_{-210}	$4.283^{+0.190}_{-0.190}$	$-0.220^{+0.300}_{-0.300}$	$1.171^{+0.326}_{-0.267}$	$0.960^{+0.145}_{-0.109}$	$0.842^{+0.824}_{-0.418}$
	+3%/-4%	+4%/-4%	+136%/-136%	+28%/-23%	+15%/-11%	+98%/-50%
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 003338660-01 / KOI 3795.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$52.31^{+16.22}_{-13.85}$	2335^{+194}_{-161}	-3134^{+8636}_{-2135}	$-0.437^{+20.817}_{-16.222}$
Alt.	-49029 ± 77	$91.38^{+21.44}_{-17.34}$	2335^{+190}_{-166}	3708^{+222}_{-207}	$2.932^{+1.540}_{-0.955}$

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 $A_{obs} \gg 1.0$

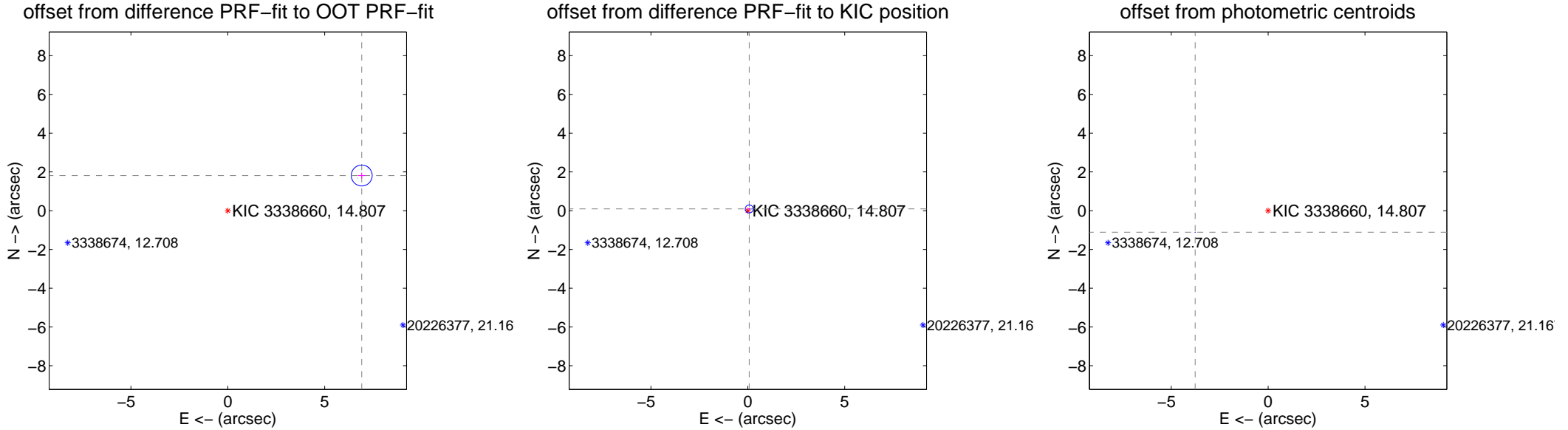
DV Centroid Data

Supplemental centroid analysis for 003338660-01. Kepler magnitude: 14.81. Transit SNR -1.00

There are 10 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 7.35 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	7.146 \pm 0.180	39.74	-6.912 \pm 0.182	1.815 \pm 0.152
PRF-fit source offset from KIC position	0.118 \pm 0.069	1.72	-0.073 \pm 0.071	0.093 \pm 0.067
photometric centroid source offset	3.92 \pm 0.00	4012.31	3.76 \pm 0.00	-1.11 \pm 0.00

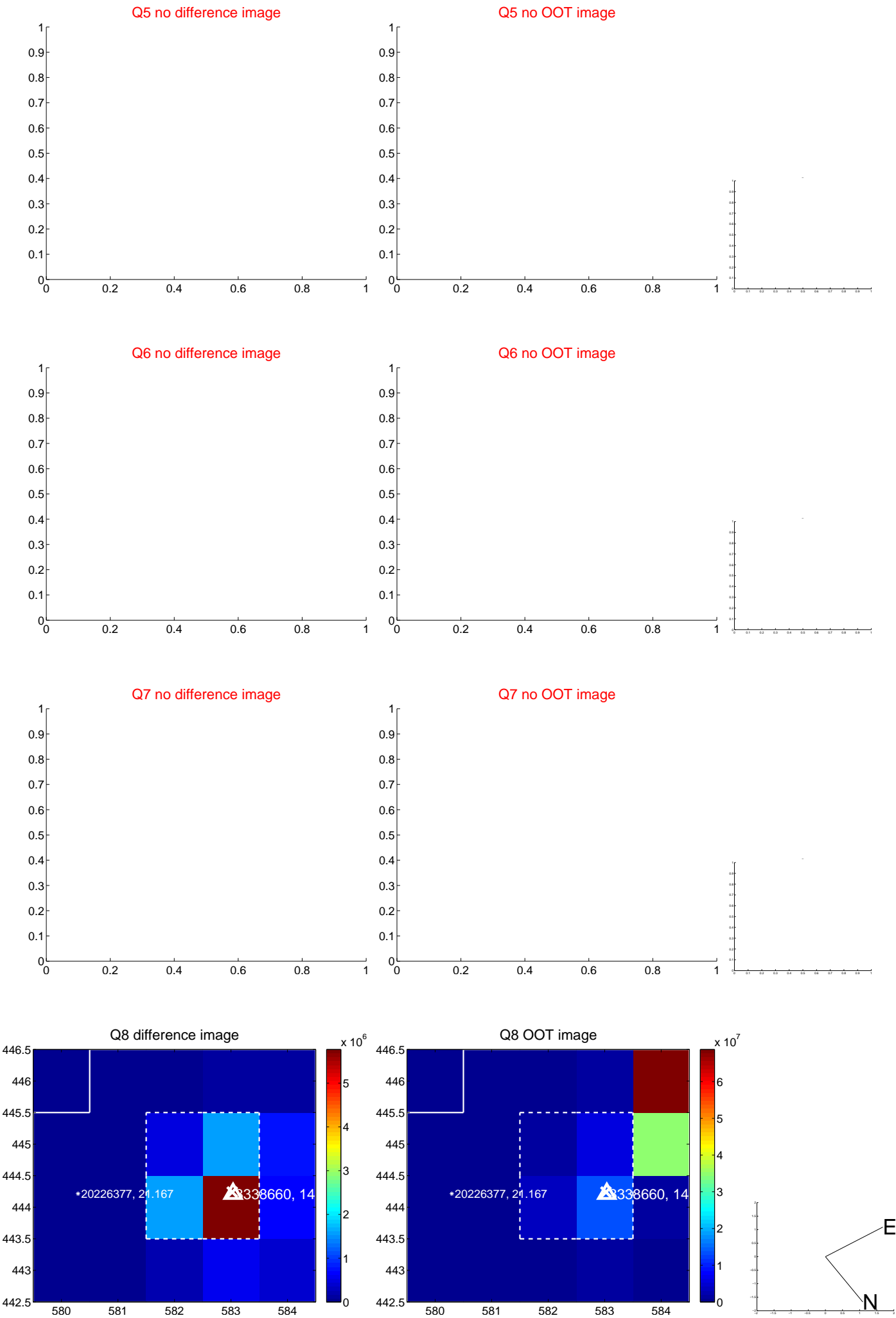


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

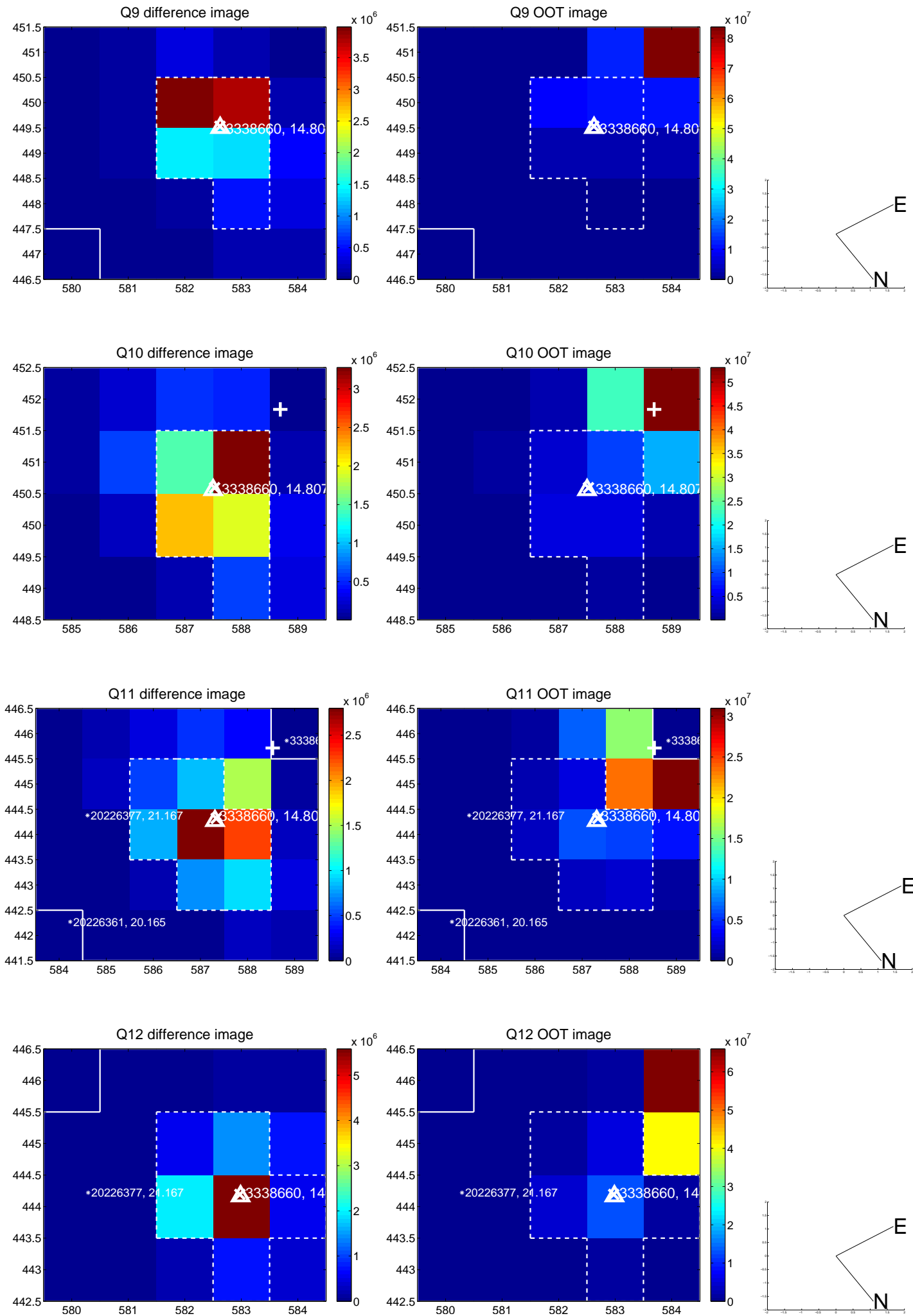
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



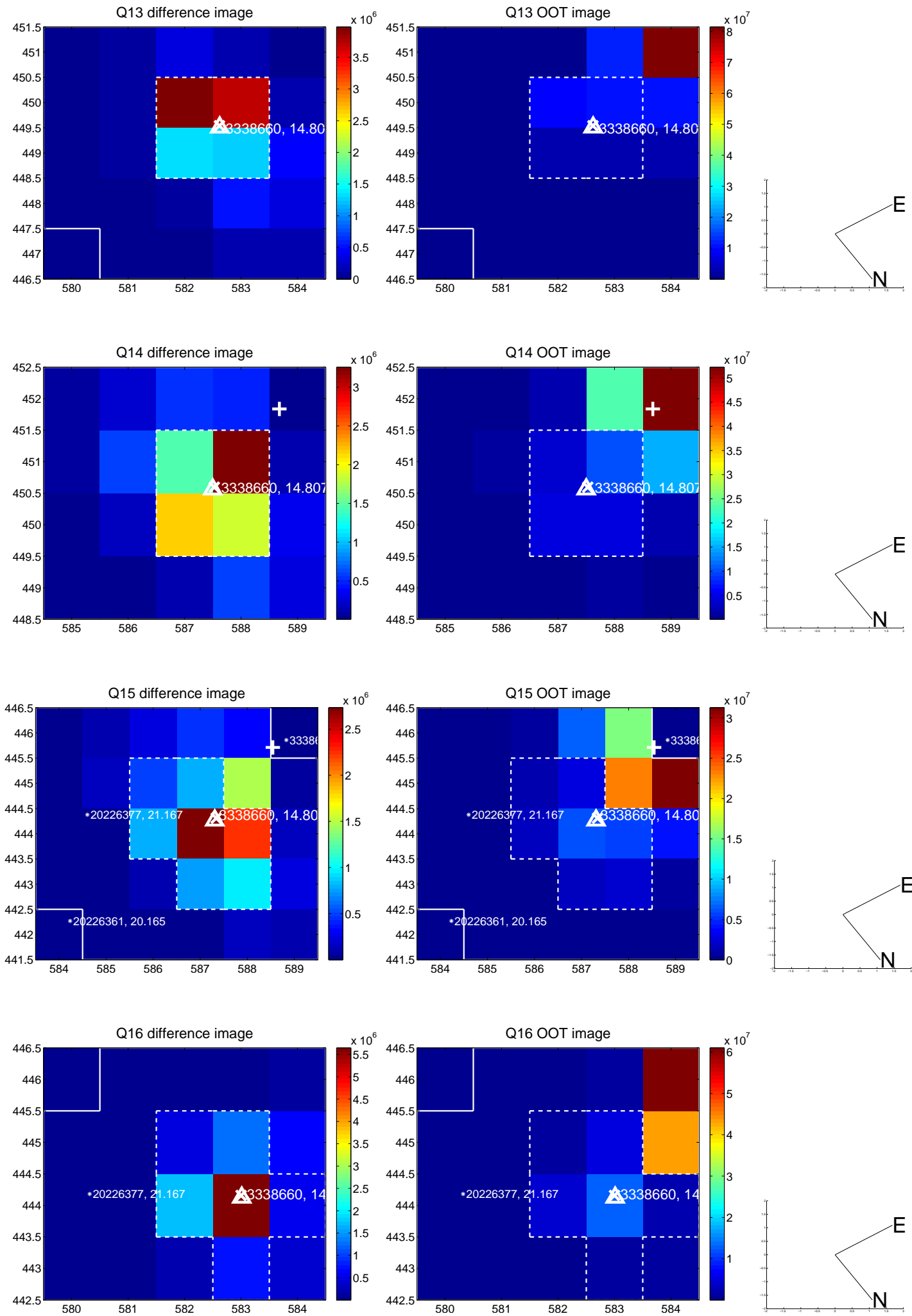
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



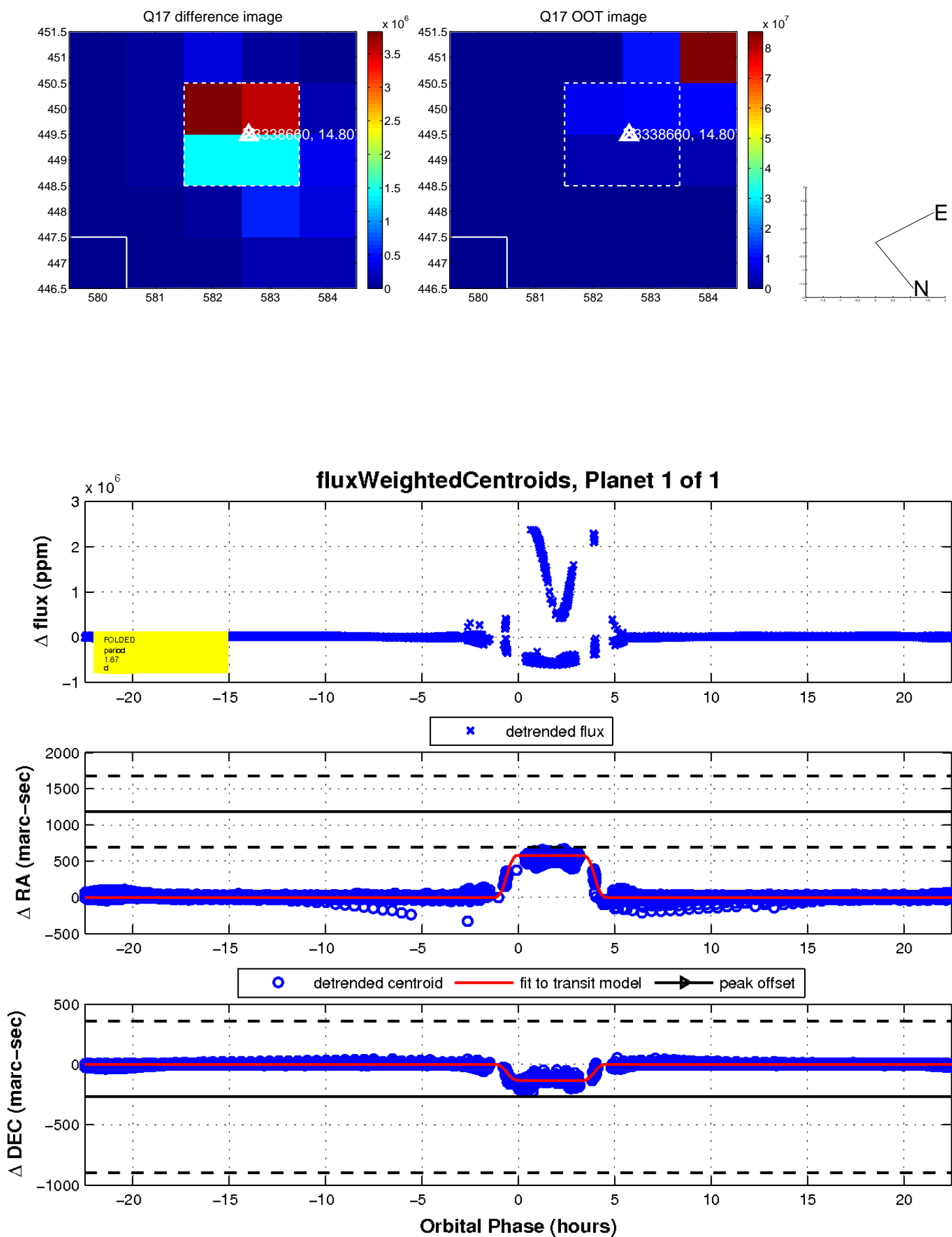
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

