

KIC 005786888

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})
005786888-01	OBS	No	229.450888	264.669748	332.6	6.048	7.2	4.5	0.96	5812	1.92	1.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005786888-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—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.

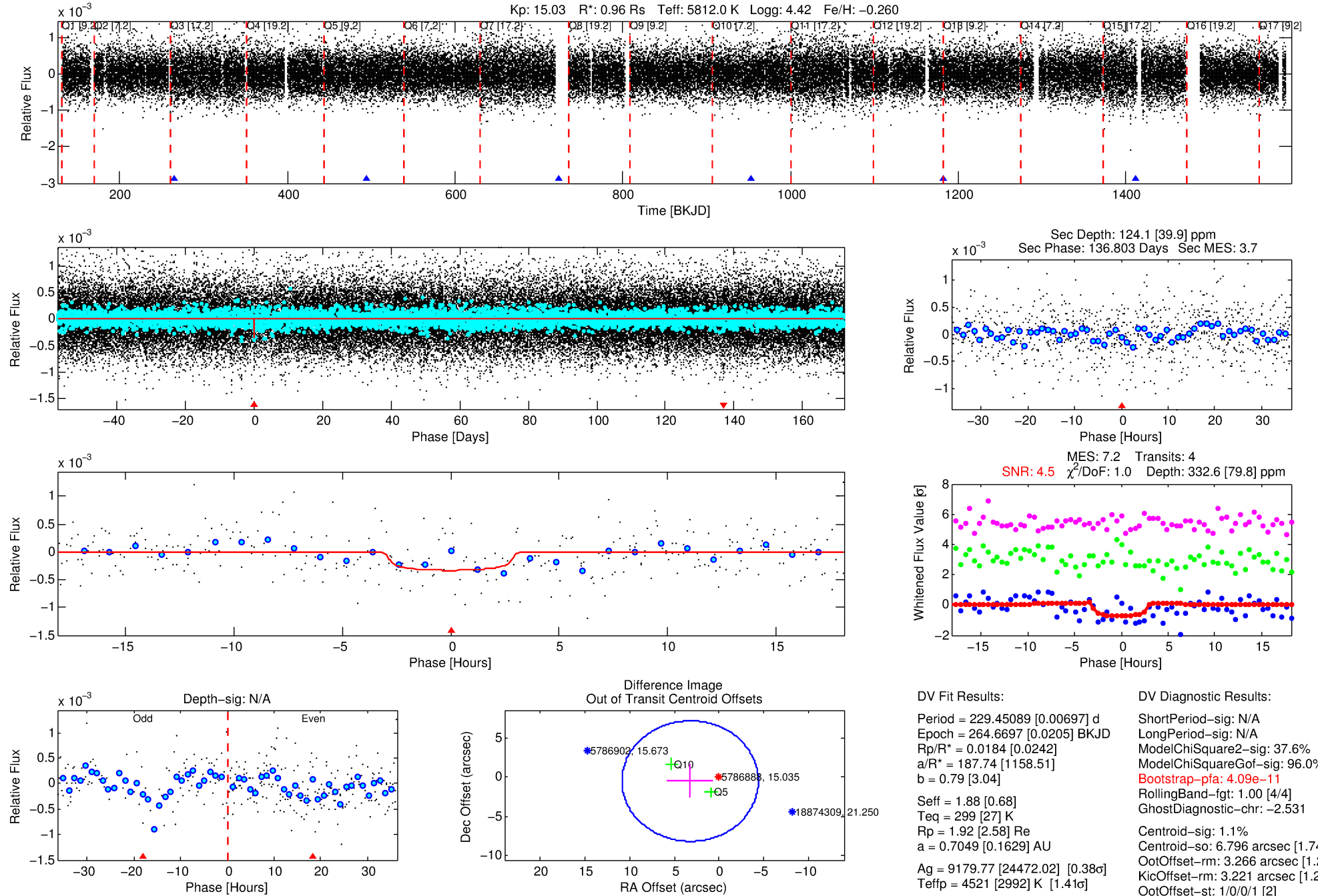
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005786888-01

No Significant Match Found

DV One-Page Summary

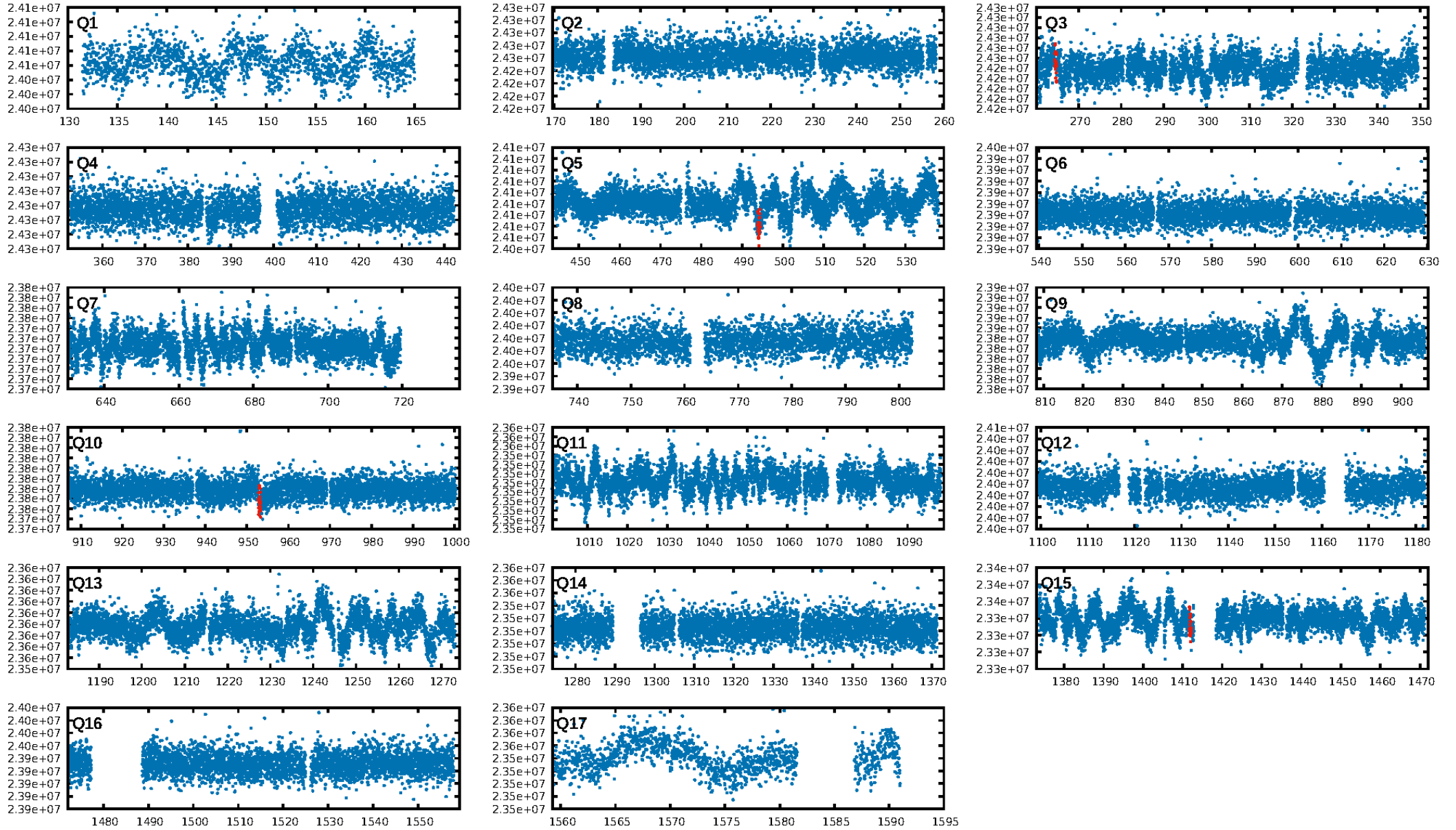
KIC: 5786888 Candidate: 1 of 1 Period: 229.451 d



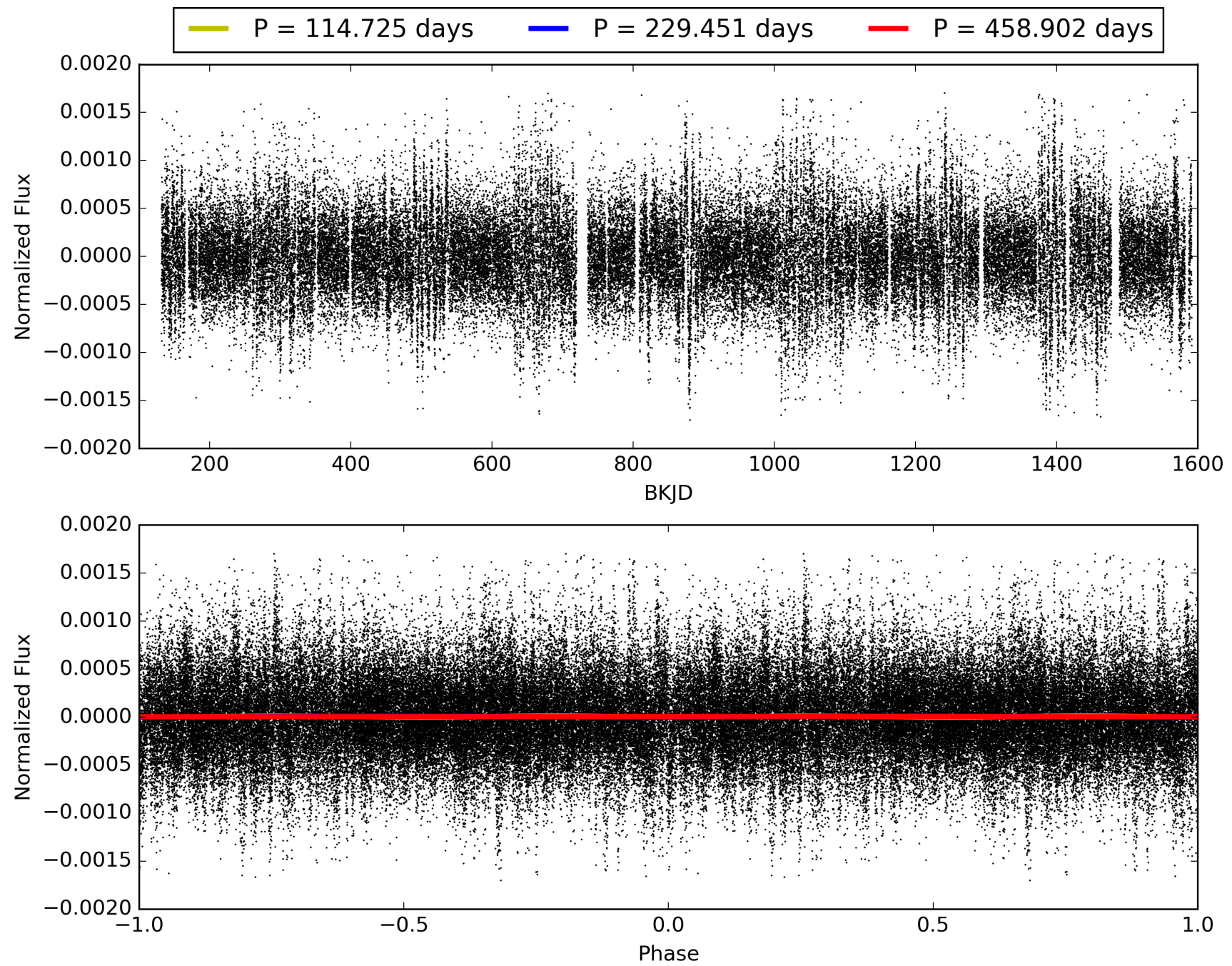
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 14:21:59 Z

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

TCE 005786888-01, PDC Light Curves

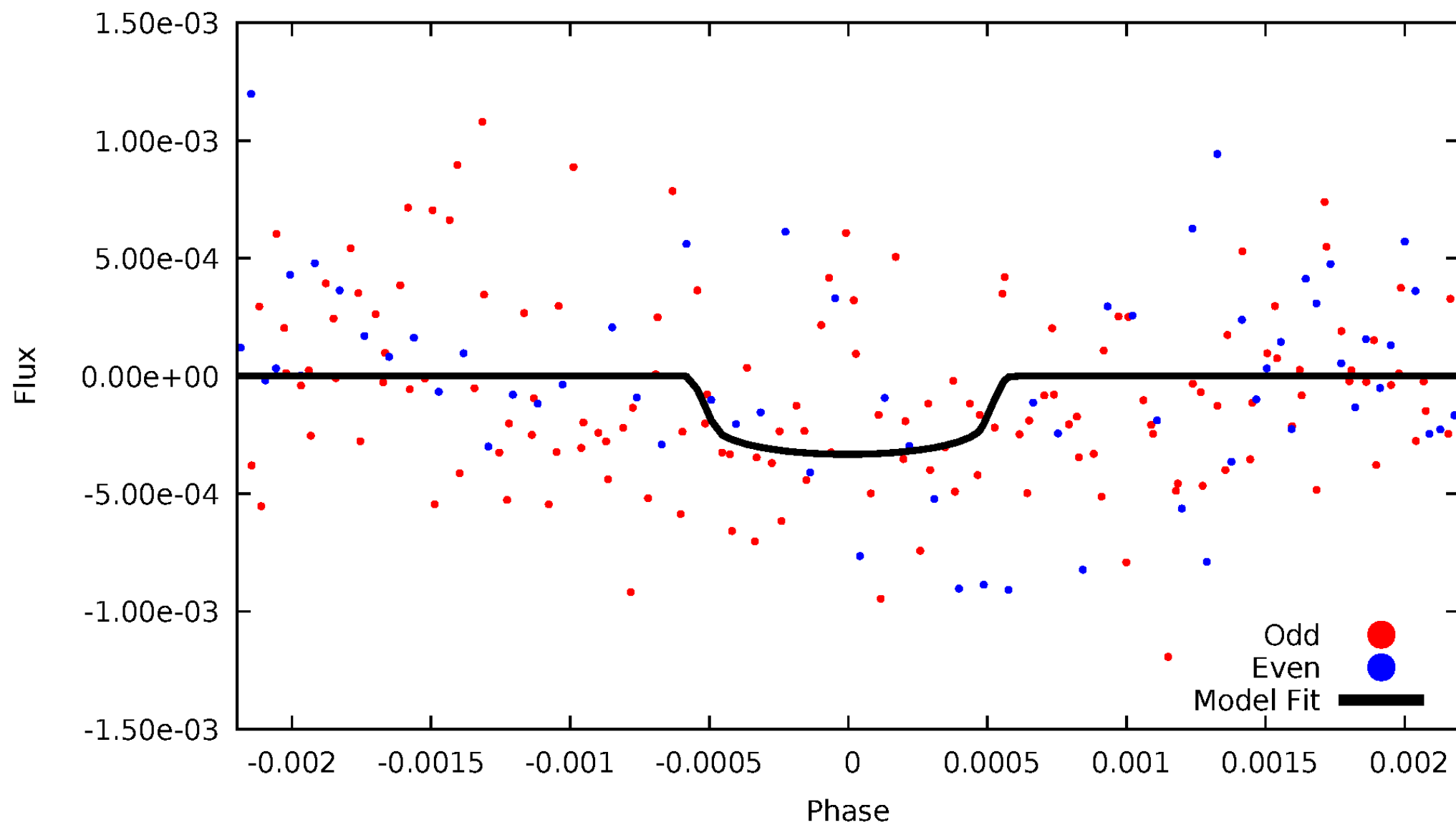


TCE 005786888-01



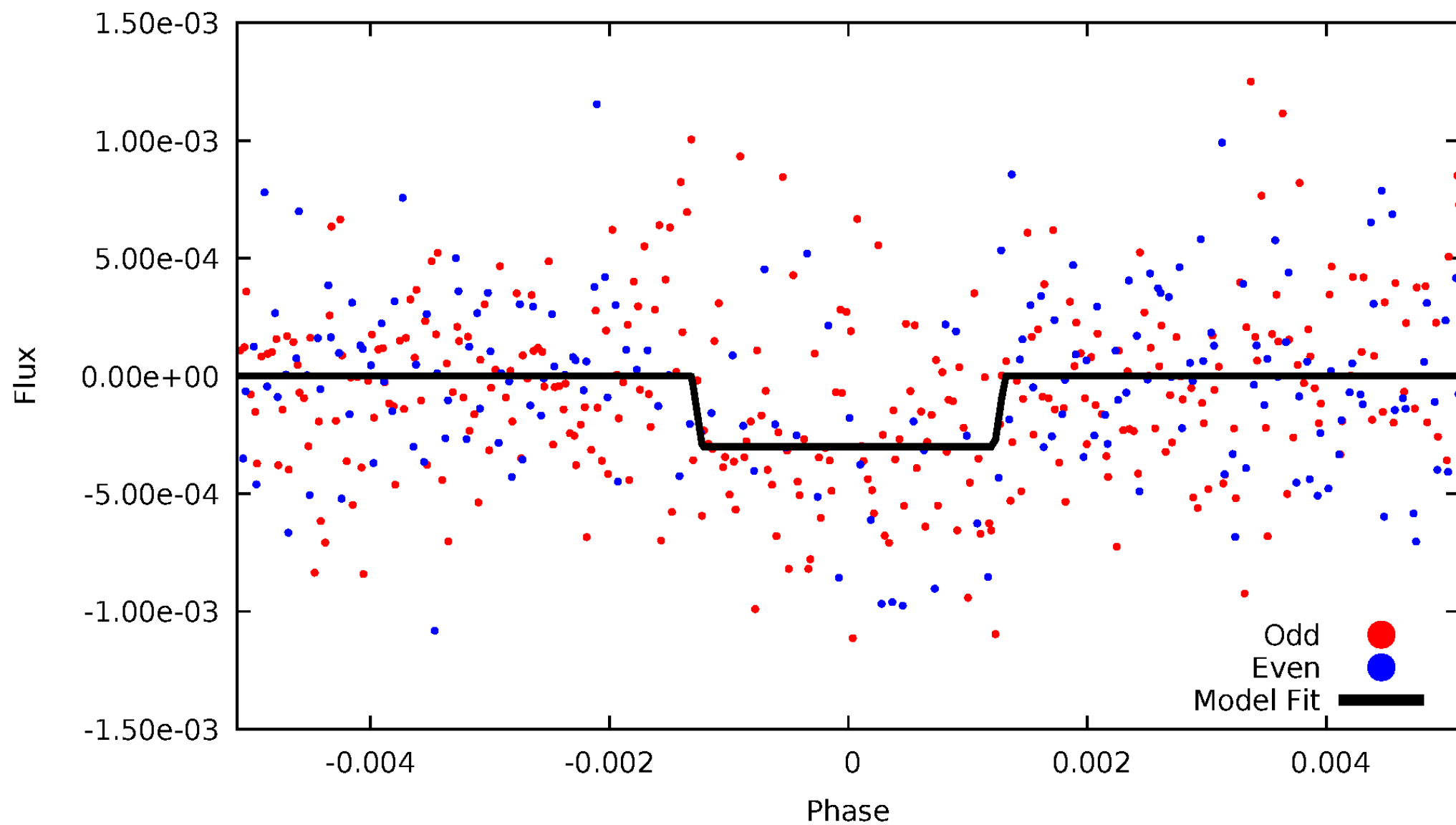
DV Odd/Even

TCE 005786888-01

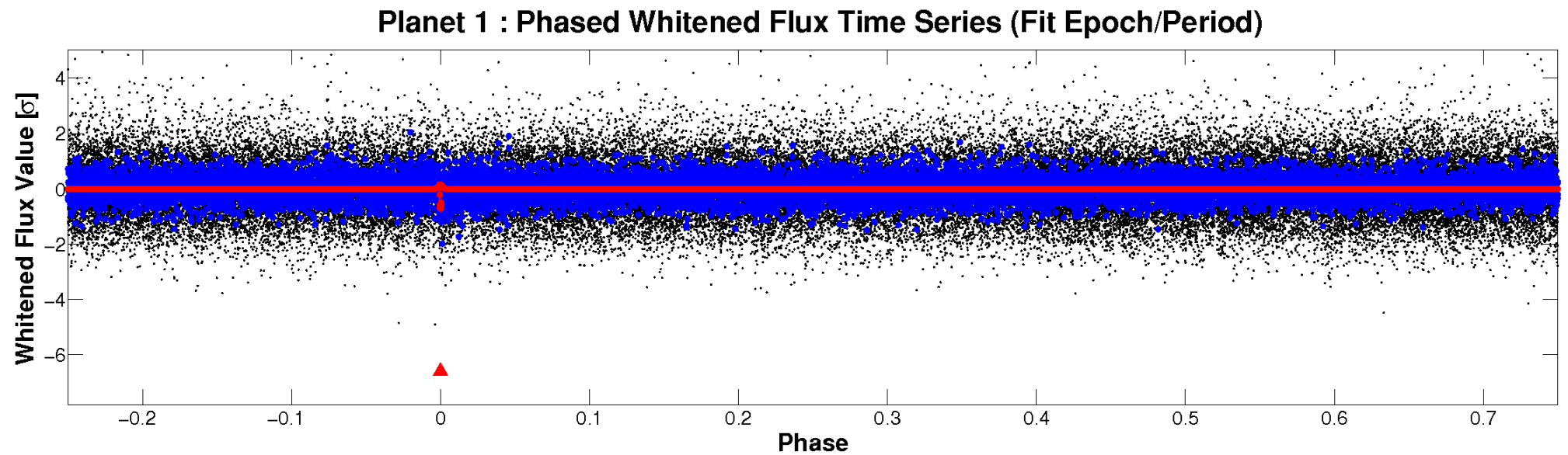
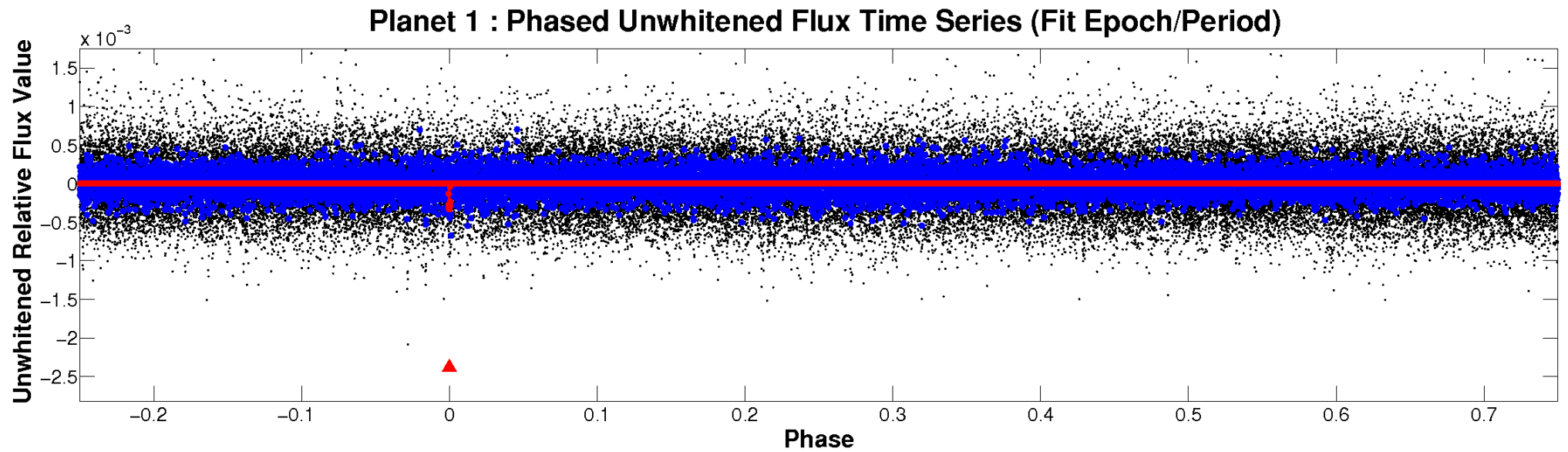


ALT Odd/Even

TCE 005786888-01

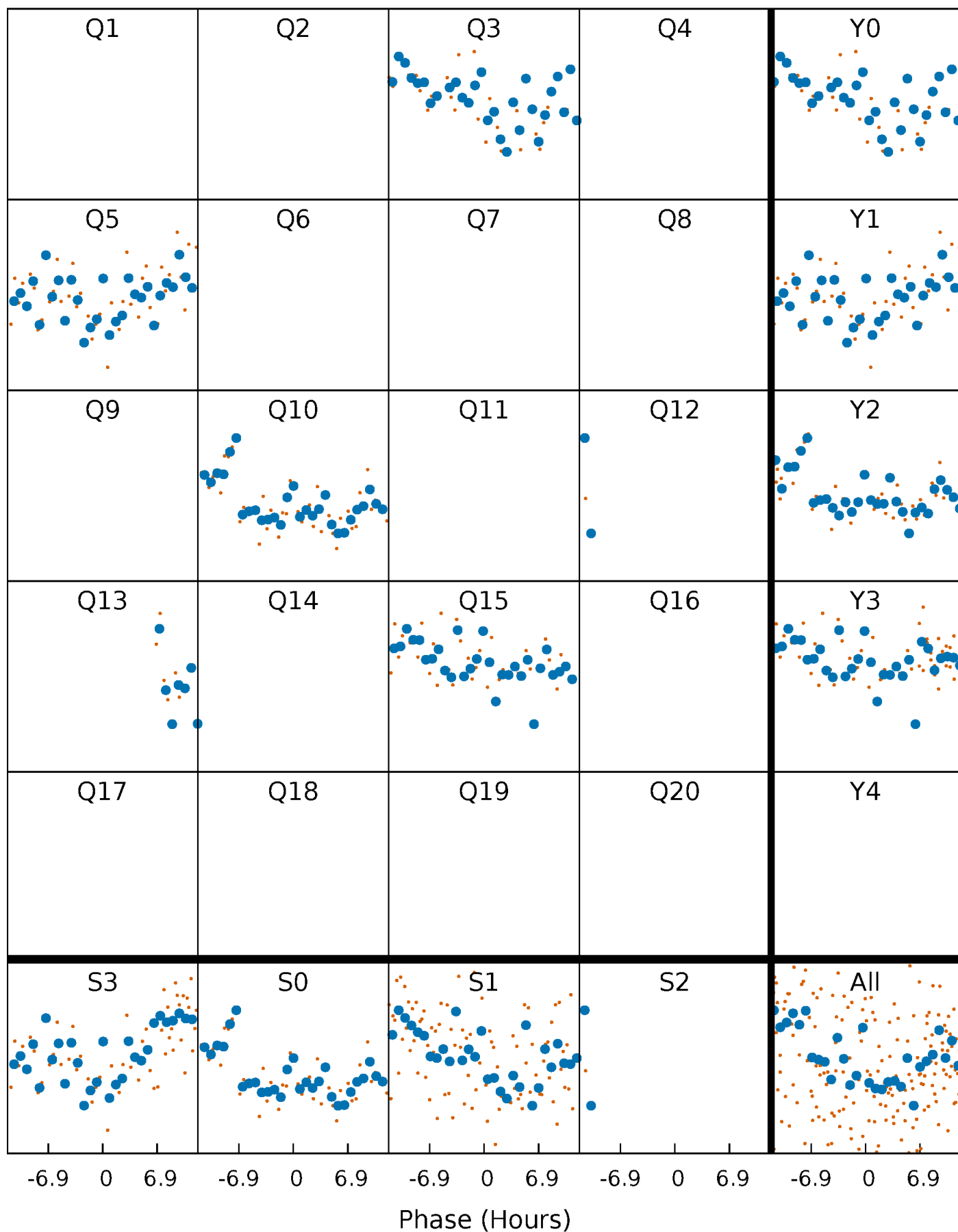


Non-Whitened Vs. Whitened Light Curve



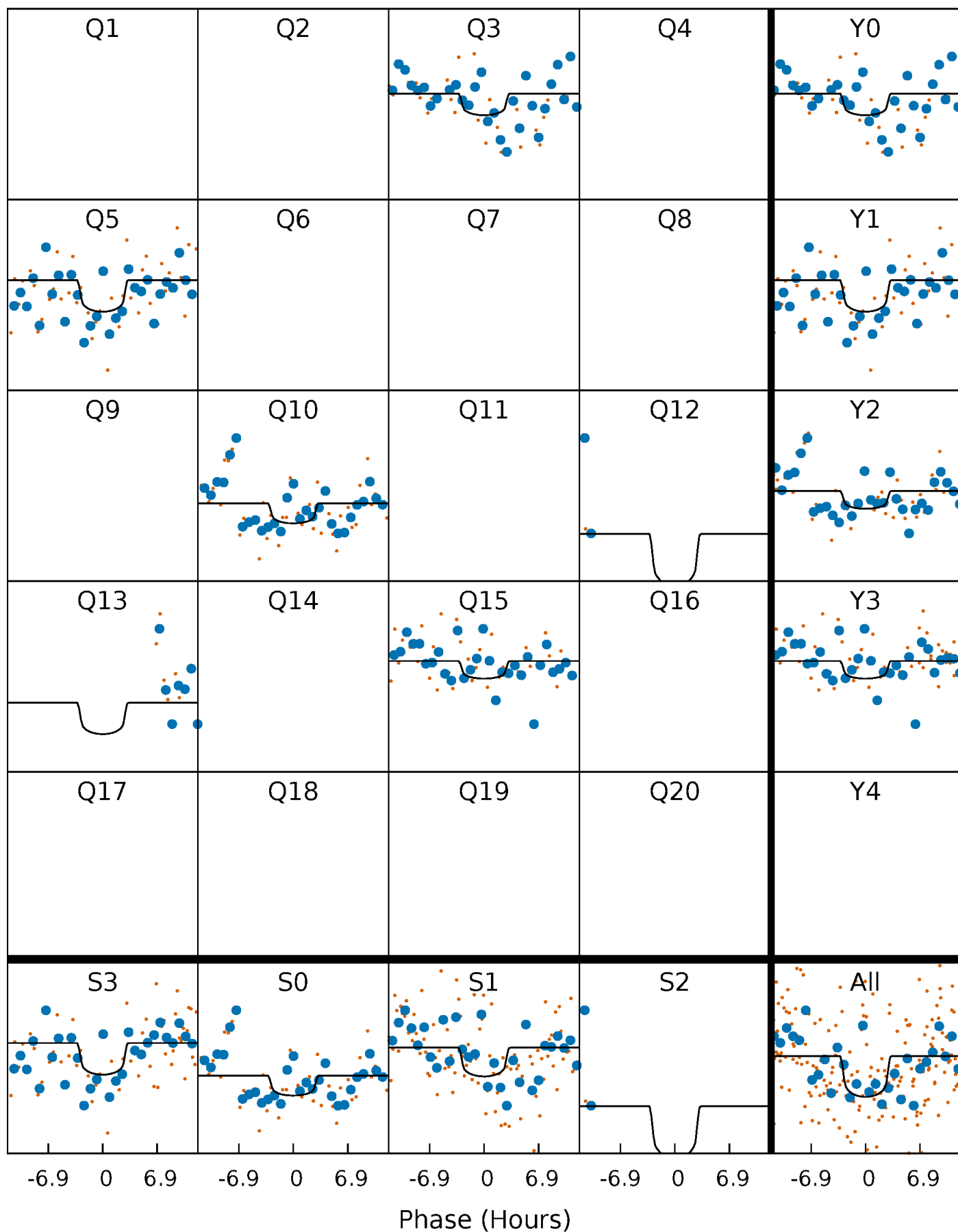
PDC Quarter-Phased Transit Curves

TCE 005786888-01 P=229.450888 Days $T_0=264.669748$ (BKJD)



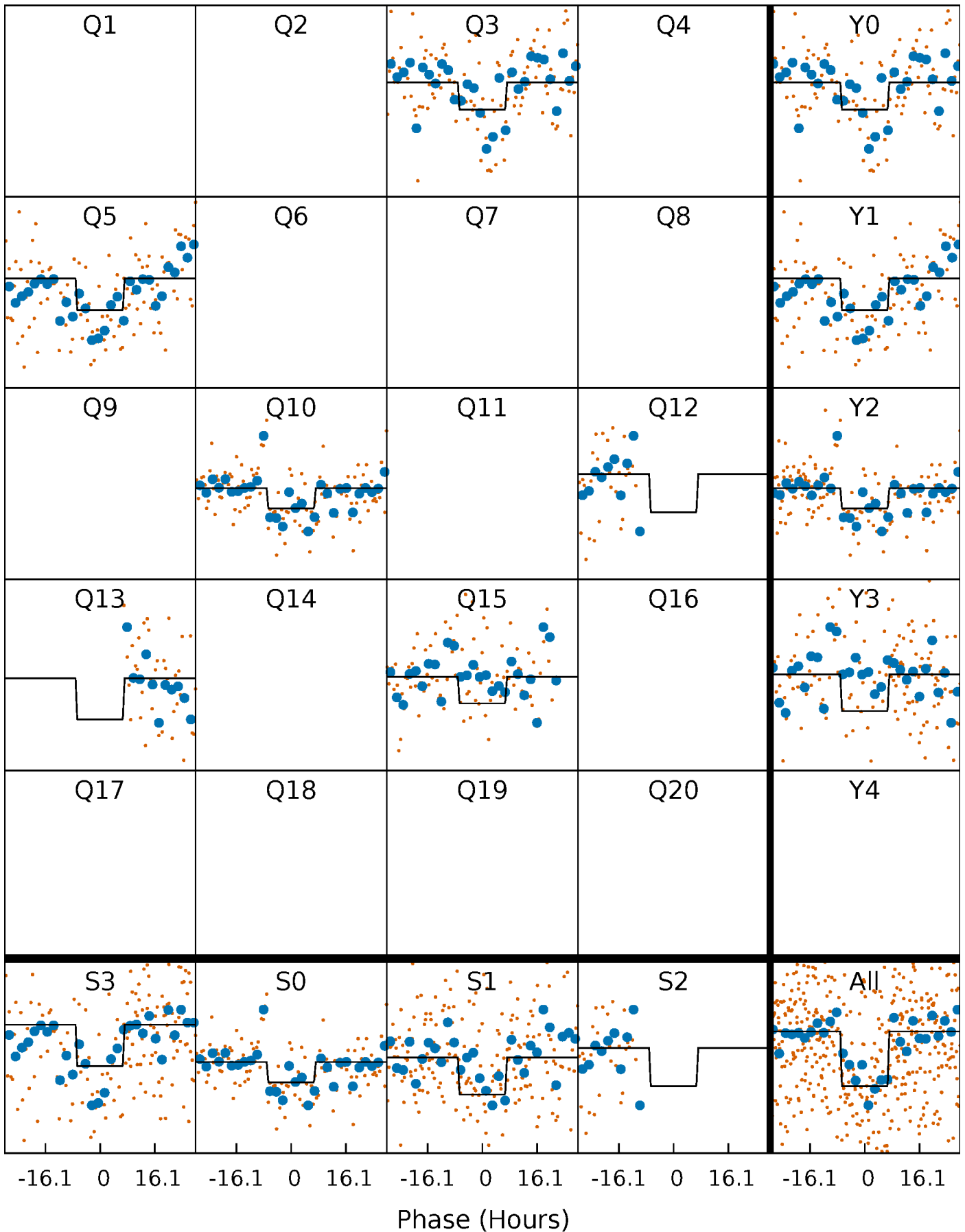
DV Quarter-Phased Transit Curves

TCE 005786888-01 P=229.450888 Days $T_0=264.669748$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

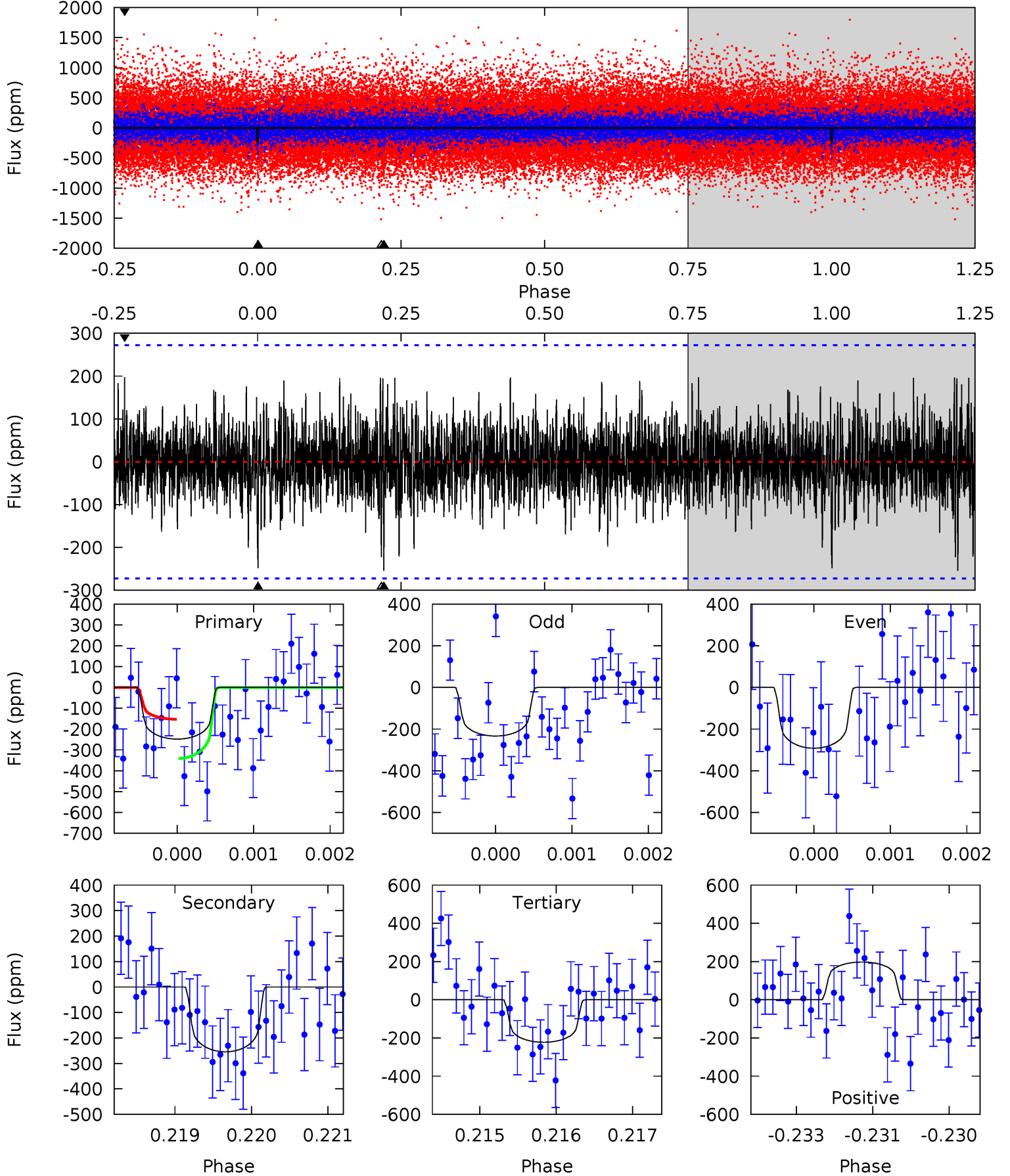
TCE 005786888-01 P=229.441634 Days $T_0=264.697142$ (BKJD)



DV Model-Shift Uniqueness Test

005786888-01, $P = 229.450888$ Days, $E = 35.218860$ Days

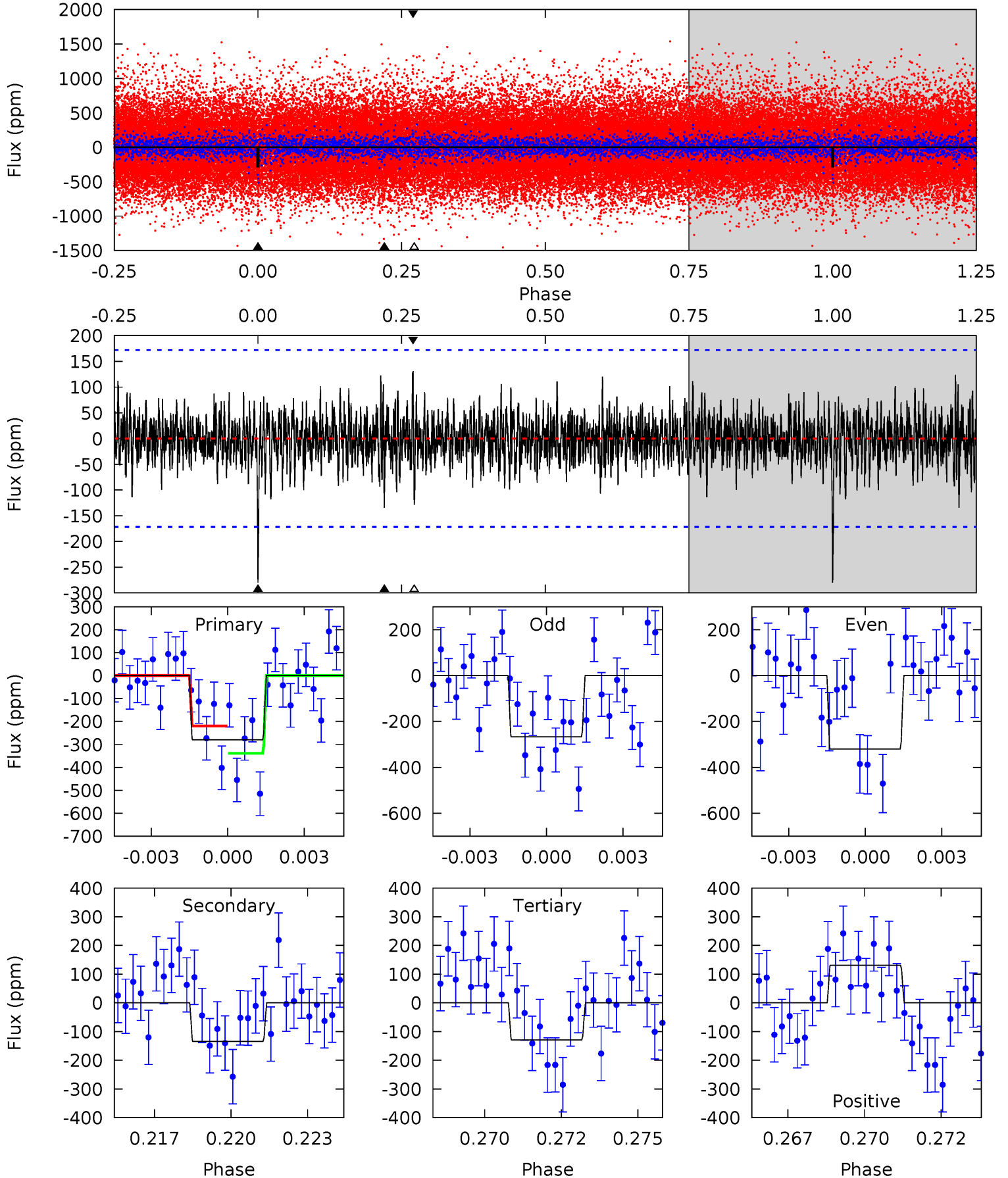
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.95	5.07	4.44	3.94	5.43	3.26	1.13	0.51	1.01	0.63	1.13	0.50	1.08	0.44	1.89



Alt Model-Shift Uniqueness Test

005786888-01, P = 229.441634 Days, E = 35.255508 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.61	4.13	3.96	4.02	5.28	3.01	1.07	4.64	4.58	0.17	0.11	0.70	0.80	0.32	1.84



Stellar Parameters For KIC 005786888

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5812^{+157}_{-174}	$4.424^{+0.124}_{-0.186}$	$-0.260^{+0.300}_{-0.300}$	$0.957^{+0.261}_{-0.140}$	$0.888^{+0.121}_{-0.088}$	$1.426^{+0.776}_{-0.684}$
	+3%/-3%	+3%/-4%	+115%/-115%	+27%/-15%	+14%/-10%	+54%/-48%
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 005786888-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-254 ± 50	$2.74^{+2.32}_{-1.76}$	420^{+31}_{-23}	4716^{+3117}_{-956}	9715^{+59950}_{-7227}
Alt.	-134 ± 33	$2.63^{+2.21}_{-1.78}$	420^{+31}_{-25}	4261^{+2552}_{-866}	5131^{+41537}_{-3634}

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 $A_{obs} \gg 1.0$

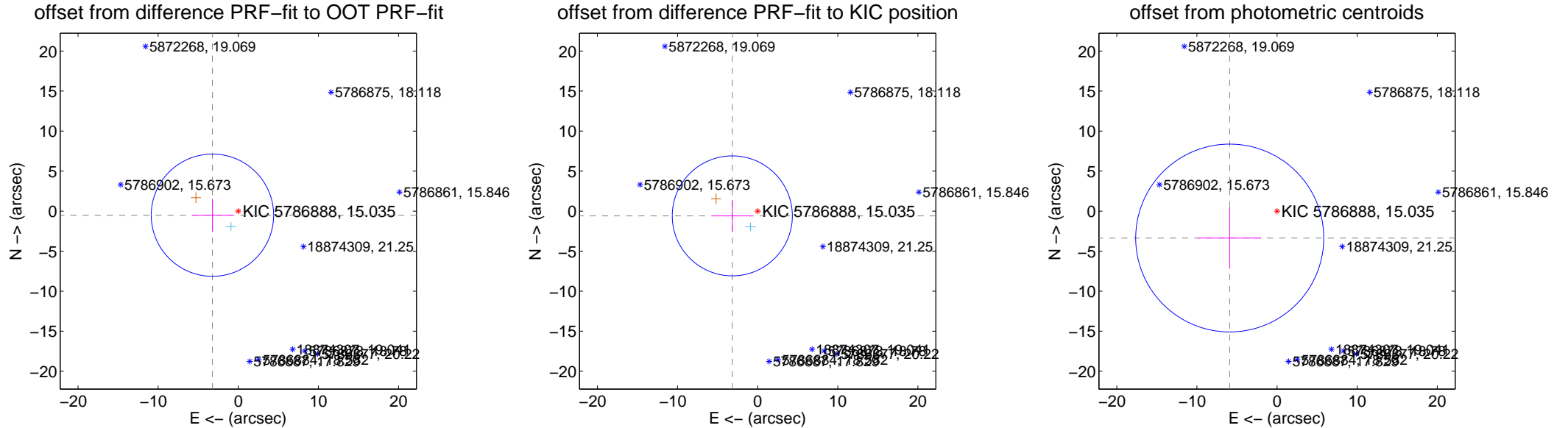
DV Centroid Data

Supplemental centroid analysis for 005786888-01. Kepler magnitude: 15.04. Transit SNR 4.46

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.266 ± 2.546	1.28	3.226 ± 2.557	-0.507 ± 2.050
PRF-fit source offset from KIC position	3.221 ± 2.498	1.29	3.166 ± 2.514	-0.591 ± 1.998
photometric centroid source offset	6.80 ± 3.91	1.74	5.91 ± 3.94	-3.36 ± 3.83



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.

Q1 no difference image



Q1 no OOT image



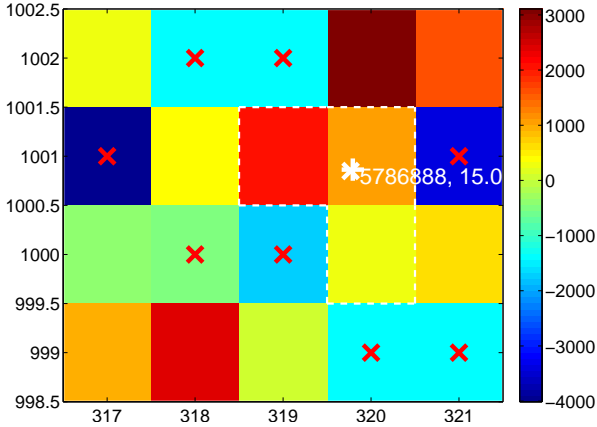
Q2 no difference image



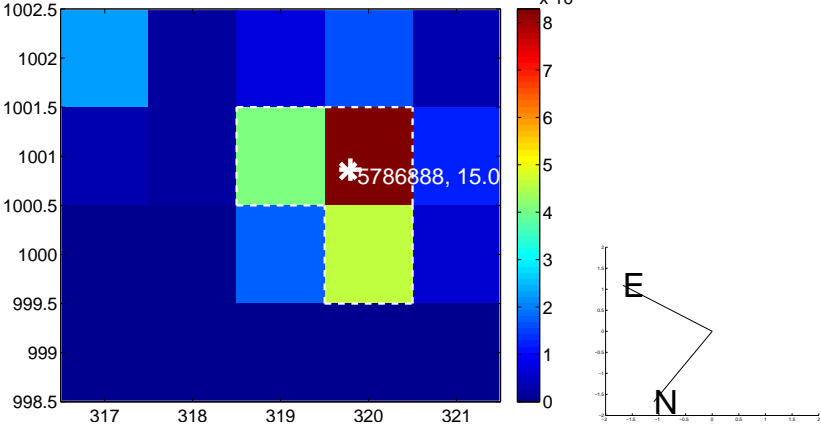
Q2 no OOT image



Q3 difference image. Poor Quality



Q3 OOT image



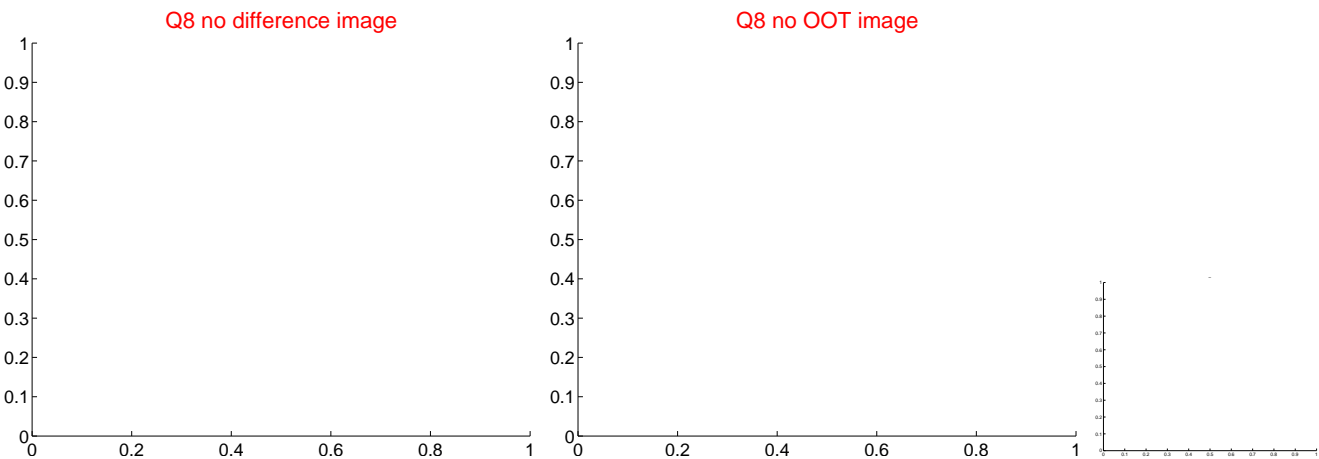
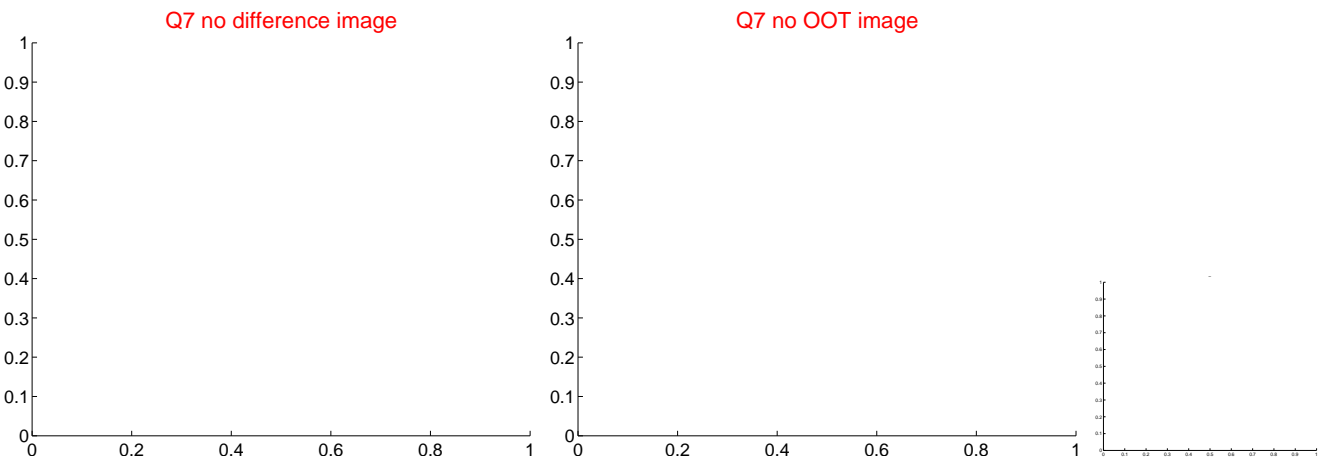
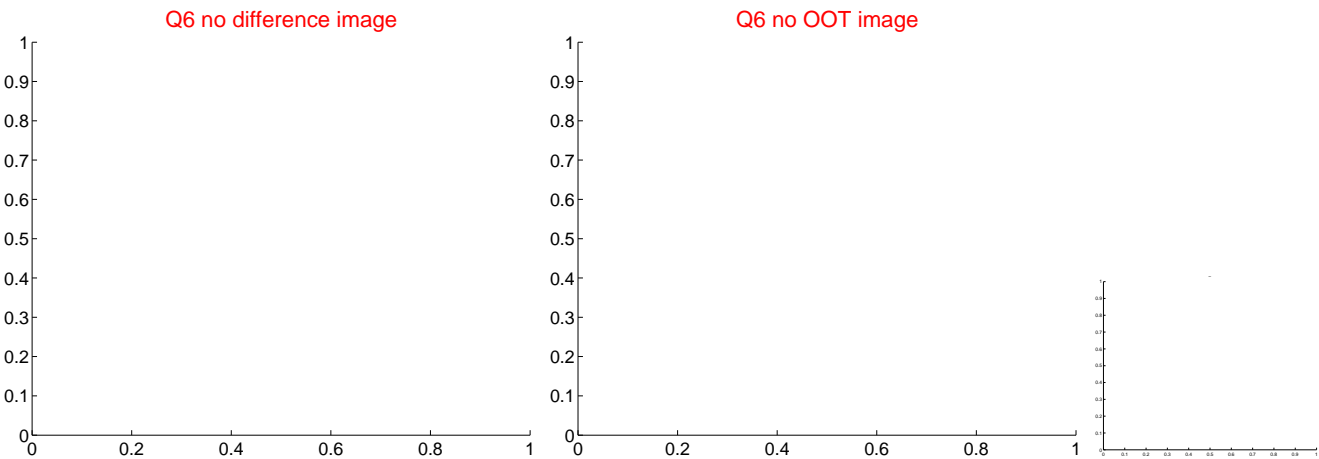
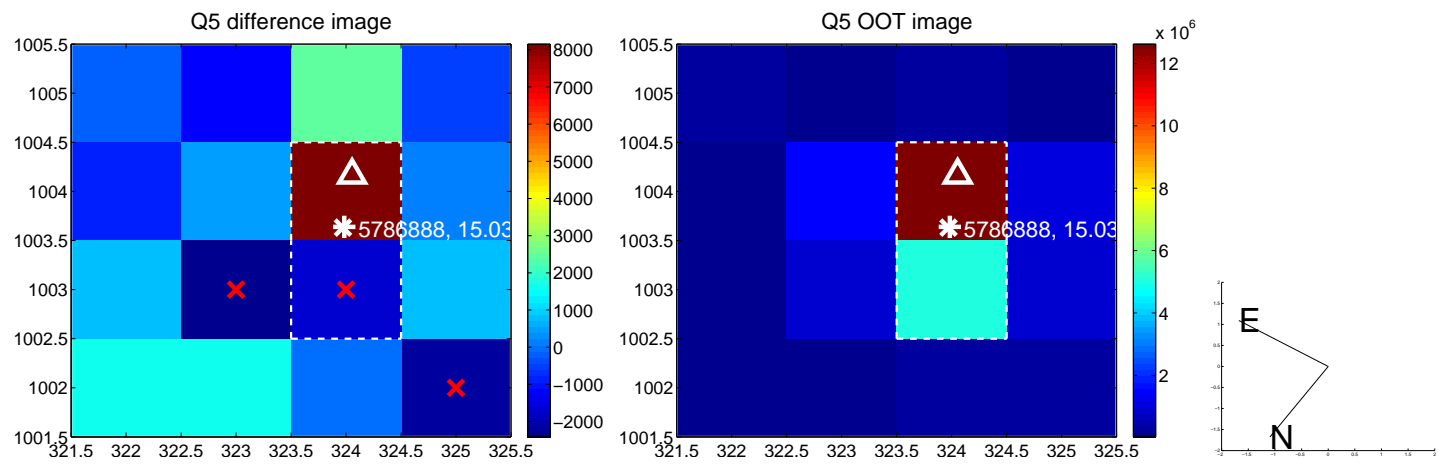
Q4 no difference image



Q4 no OOT image



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

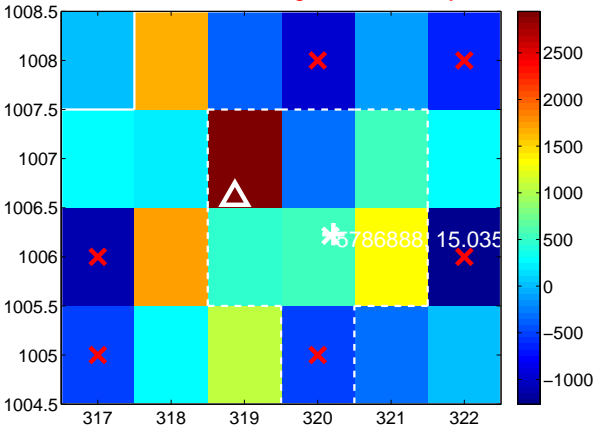
Q9 no difference image



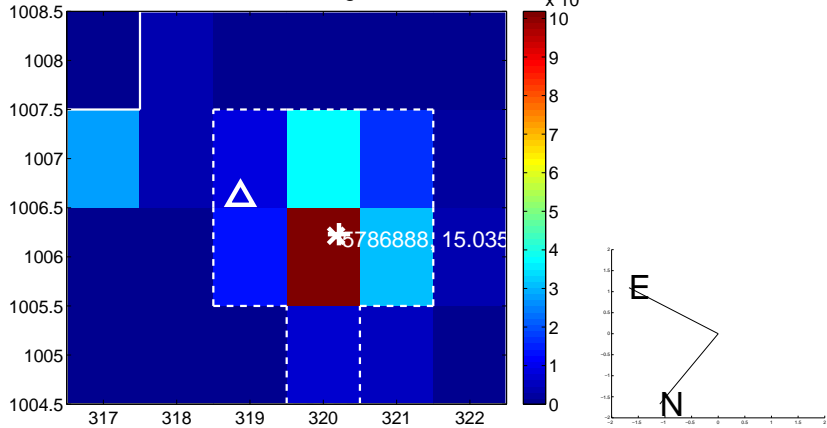
Q9 no OOT image



Q10 difference image. Poor Quality



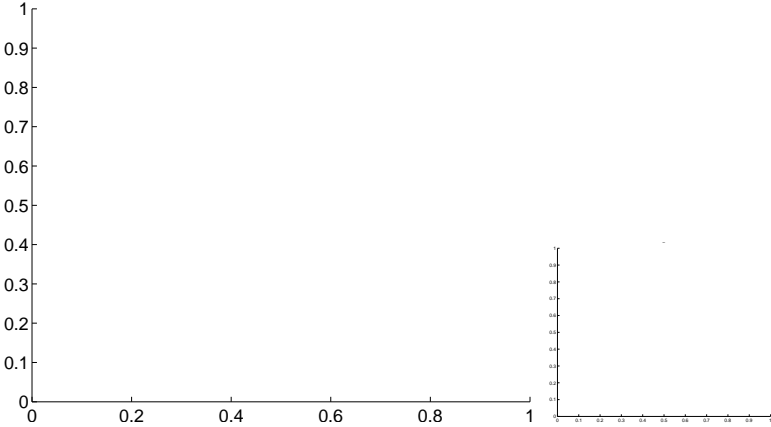
Q10 OOT image



Q11 no difference image



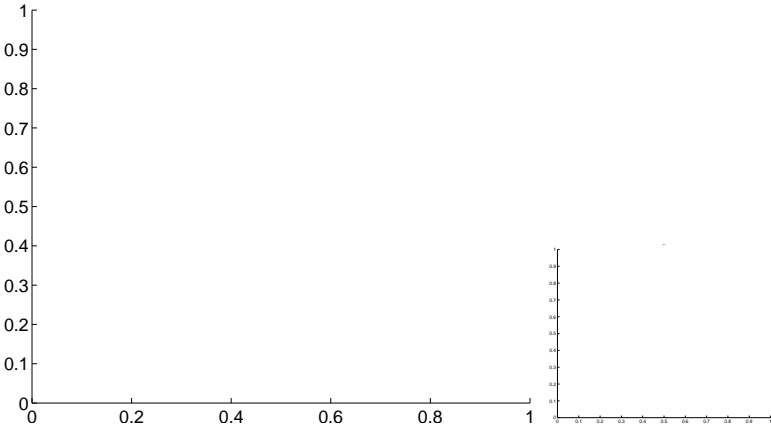
Q11 no OOT image



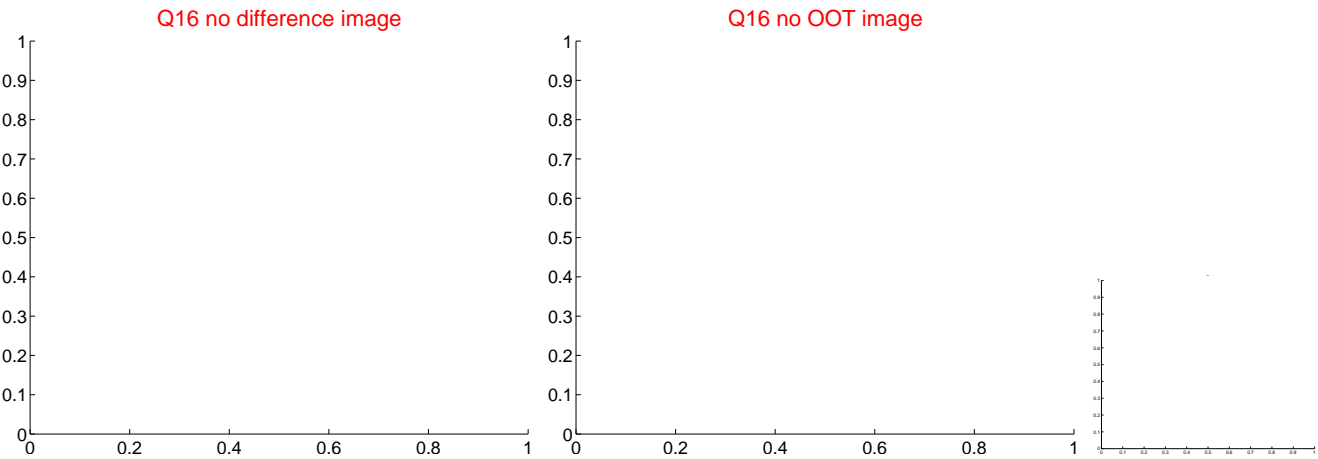
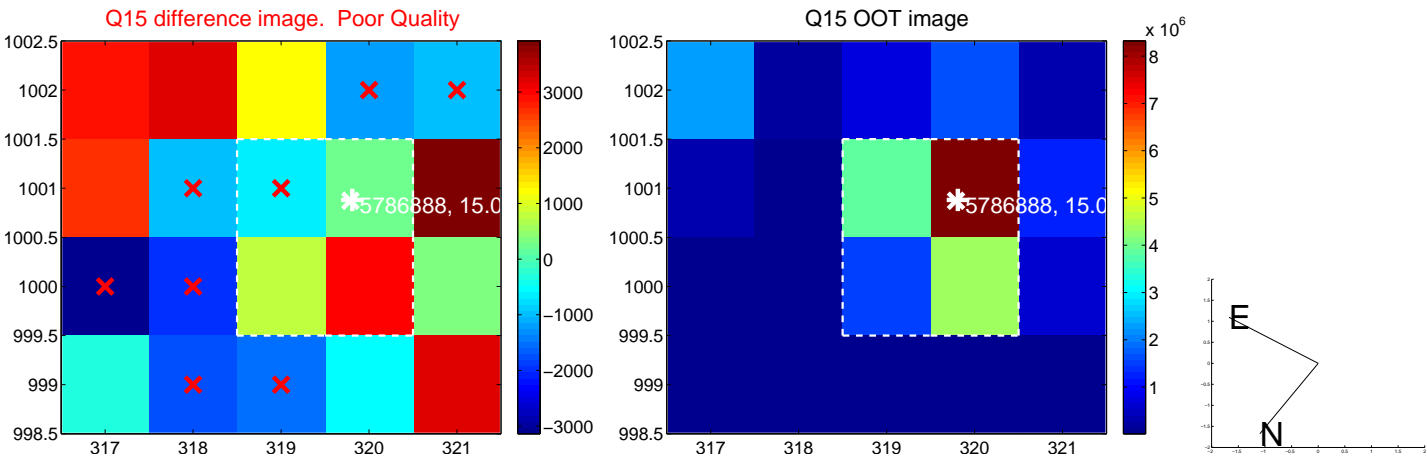
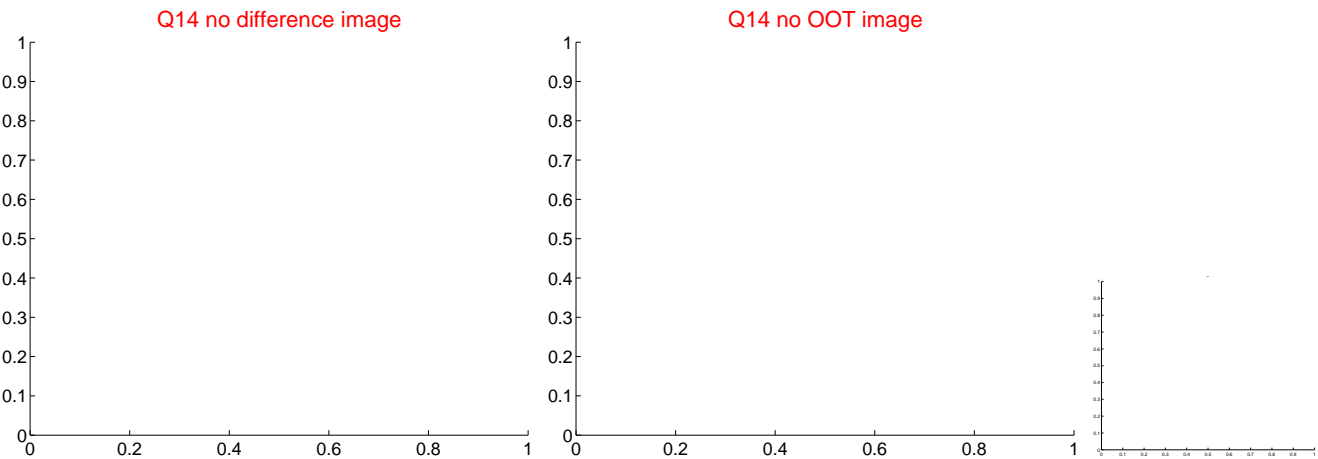
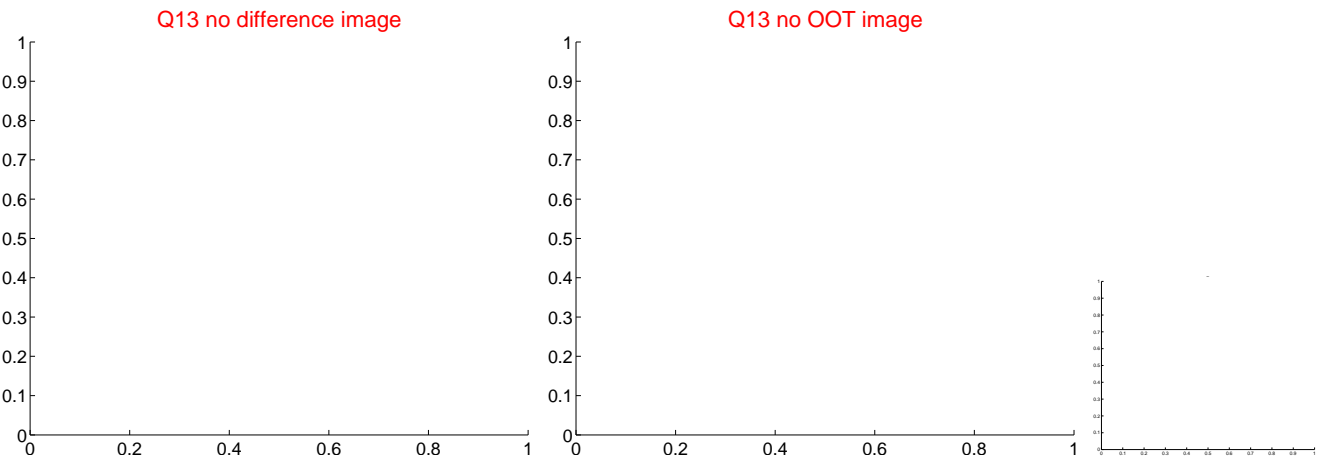
Q12 no difference image



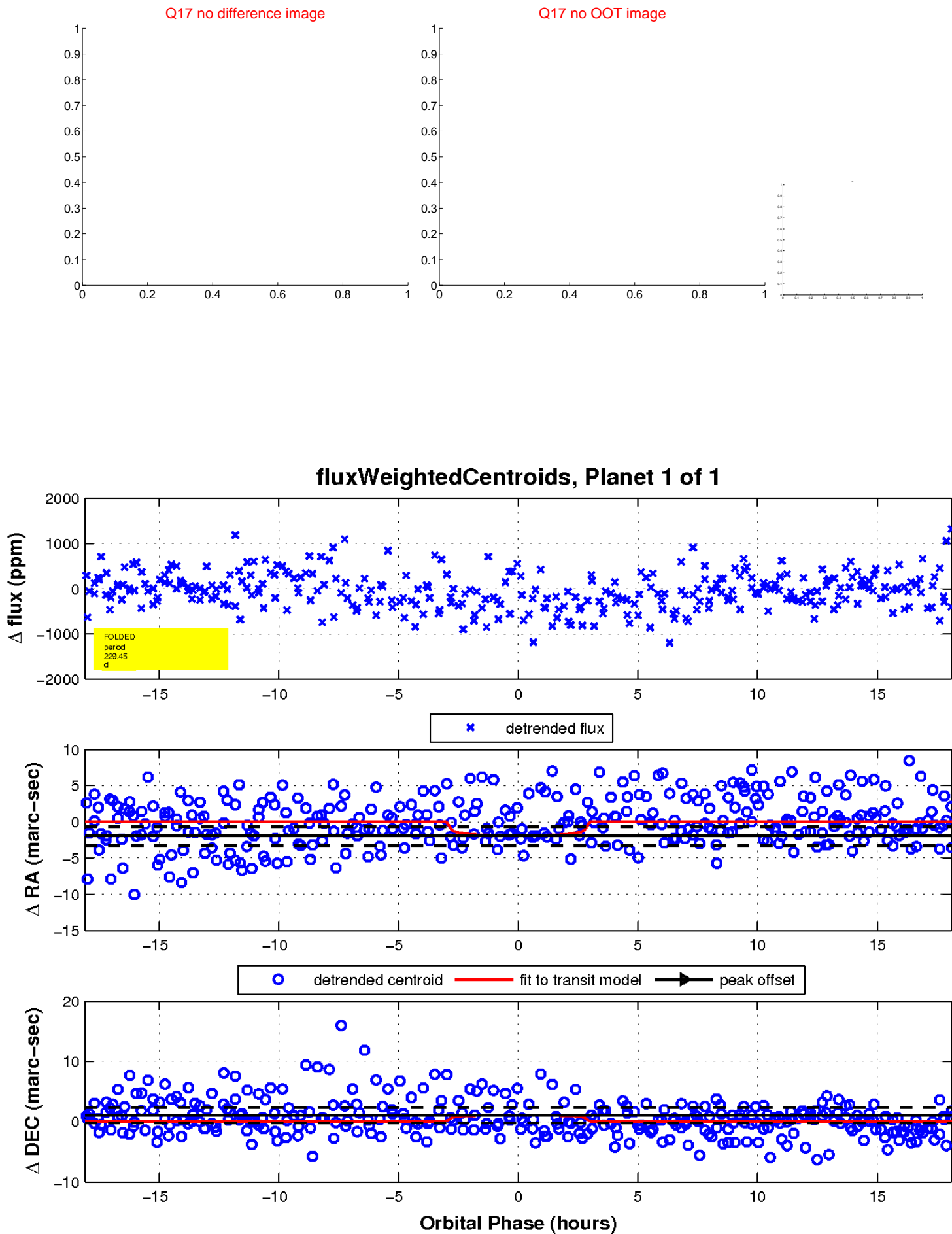
Q12 no OOT image



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



UKIRT Image

Declination

