

KIC 002695733

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})
002695733-01	OBS	No	315.157105	341.070154	1072.6	27.071	8.3	8.8	1.00	5780	3.73	1.22

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002695733-01	OBS	FP	0.00	1	0	1	0	LPP_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST

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

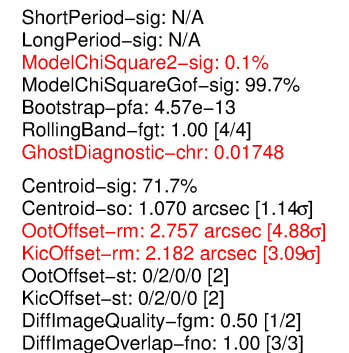
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 002695733-01

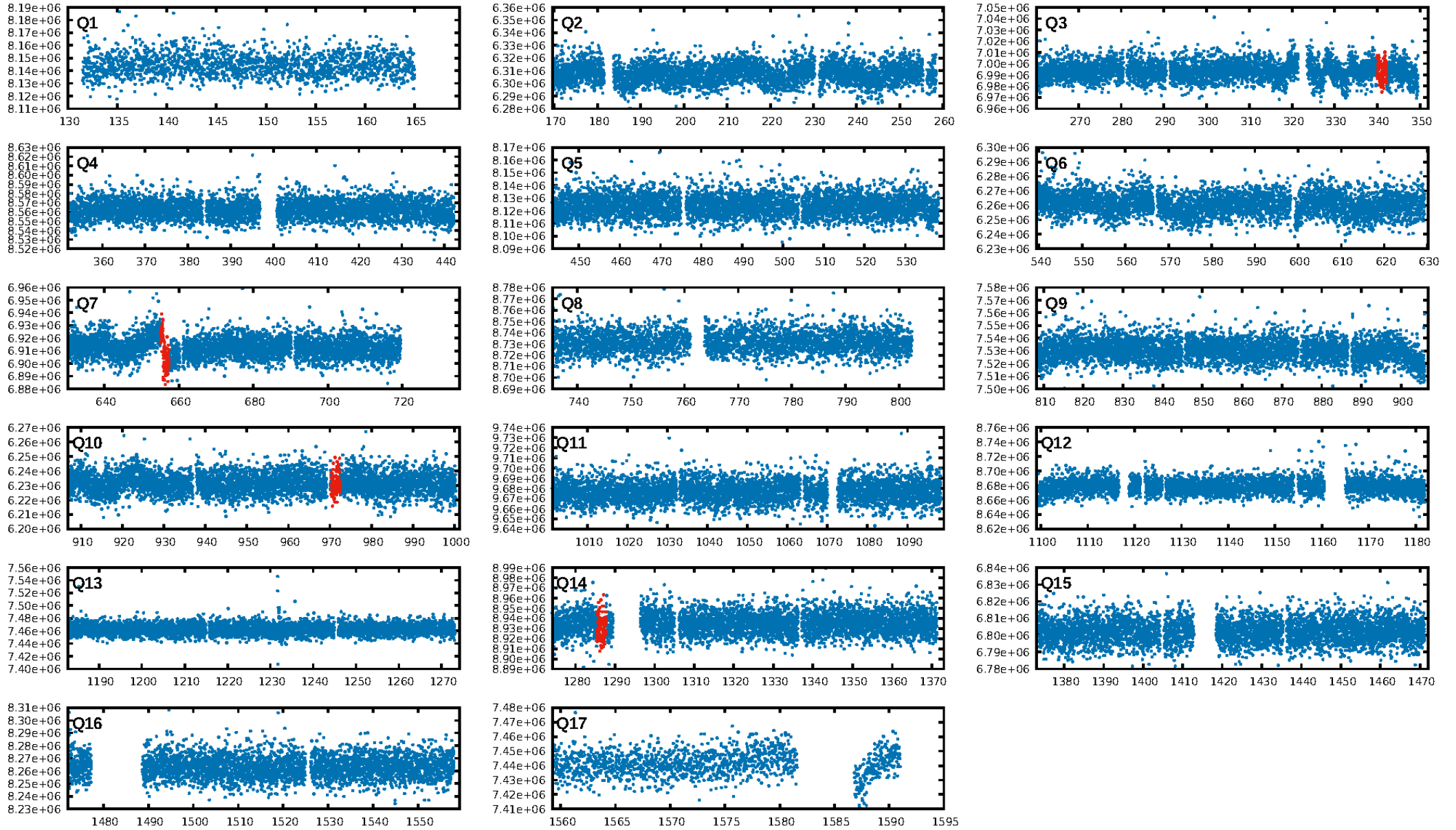
No Significant Match Found

KIC: 2695733 Candidate: 1 of 1 Period: 315.157 d

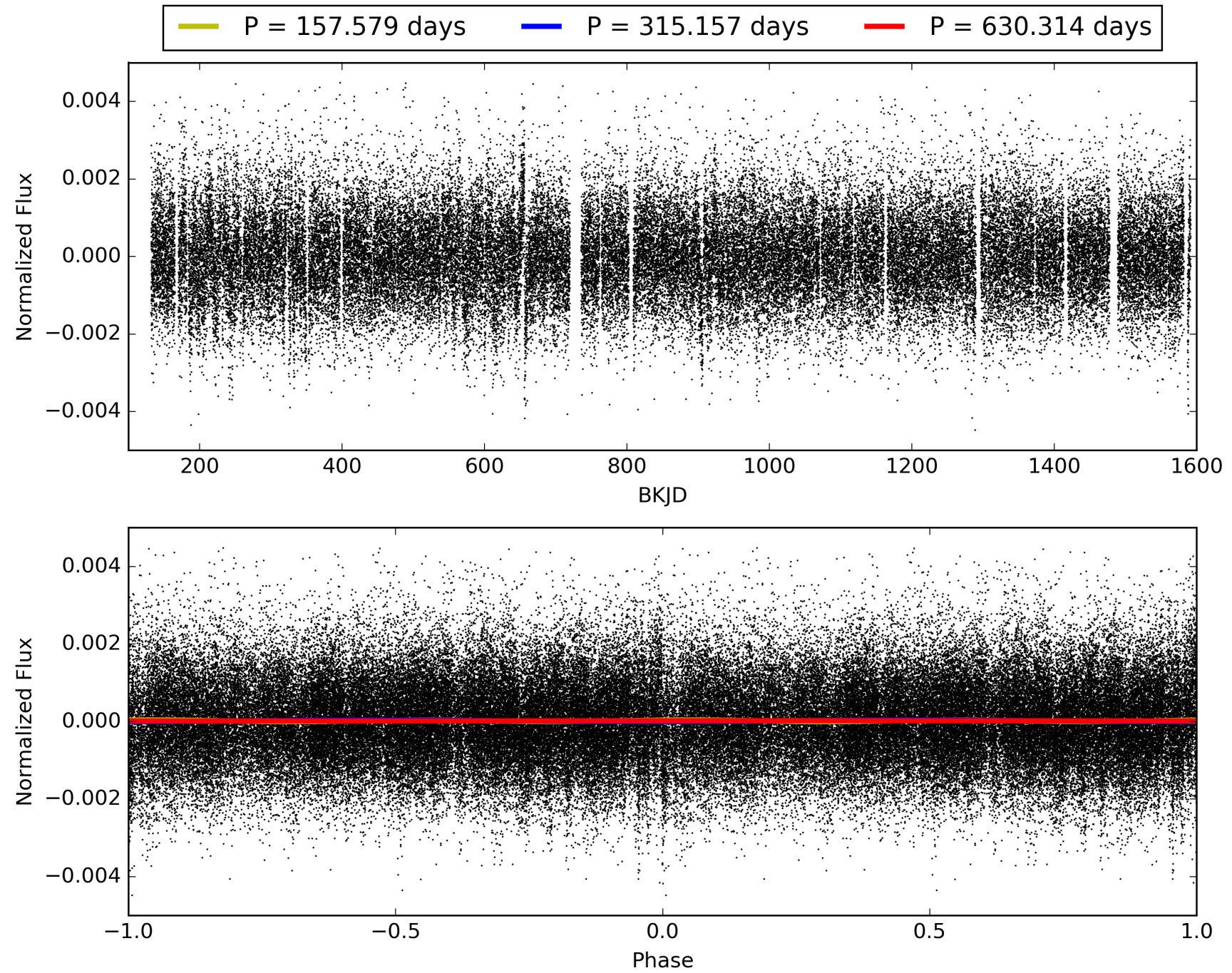


This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 002695733-01, PDC Light Curves

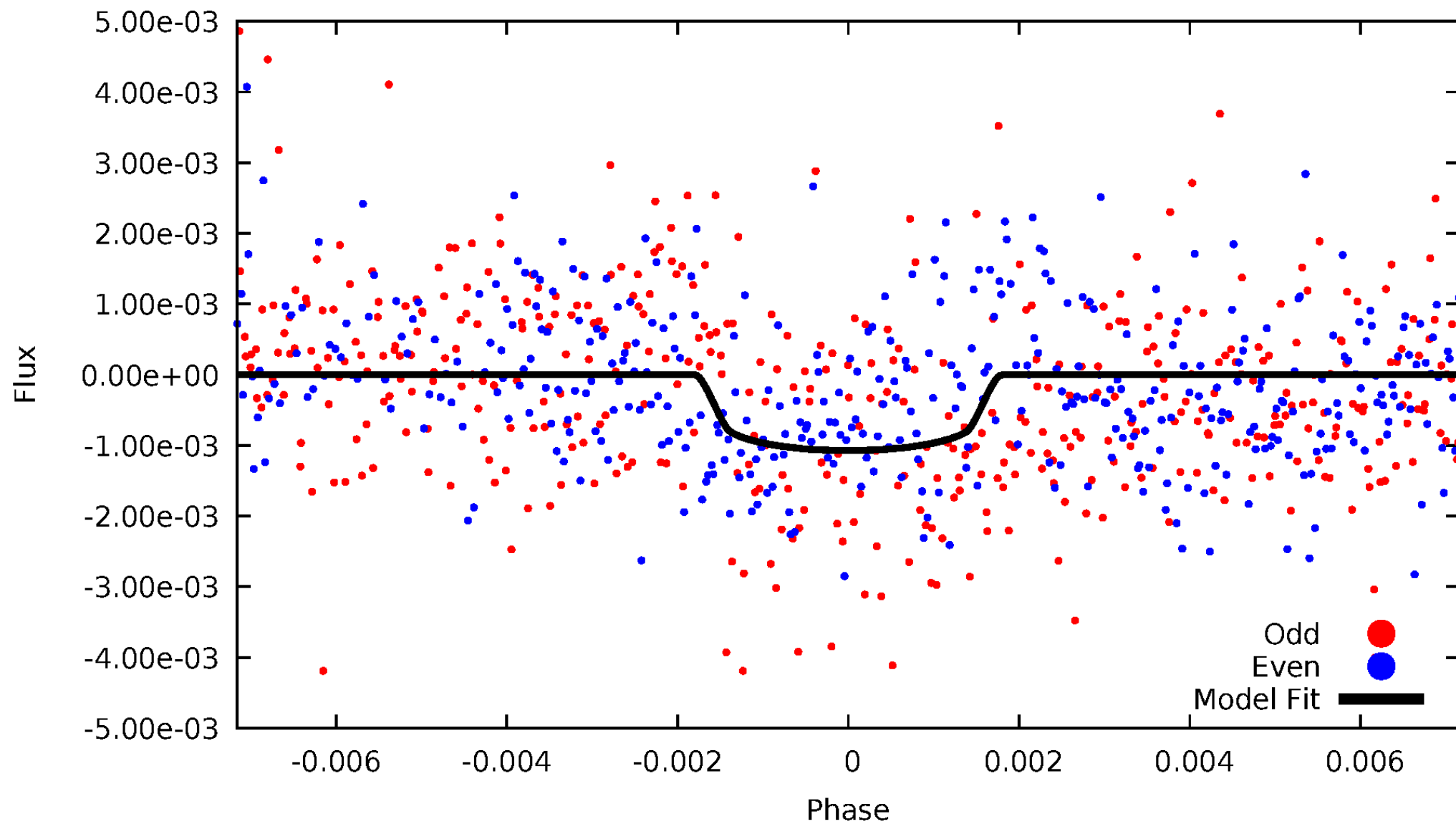


TCE 002695733-01



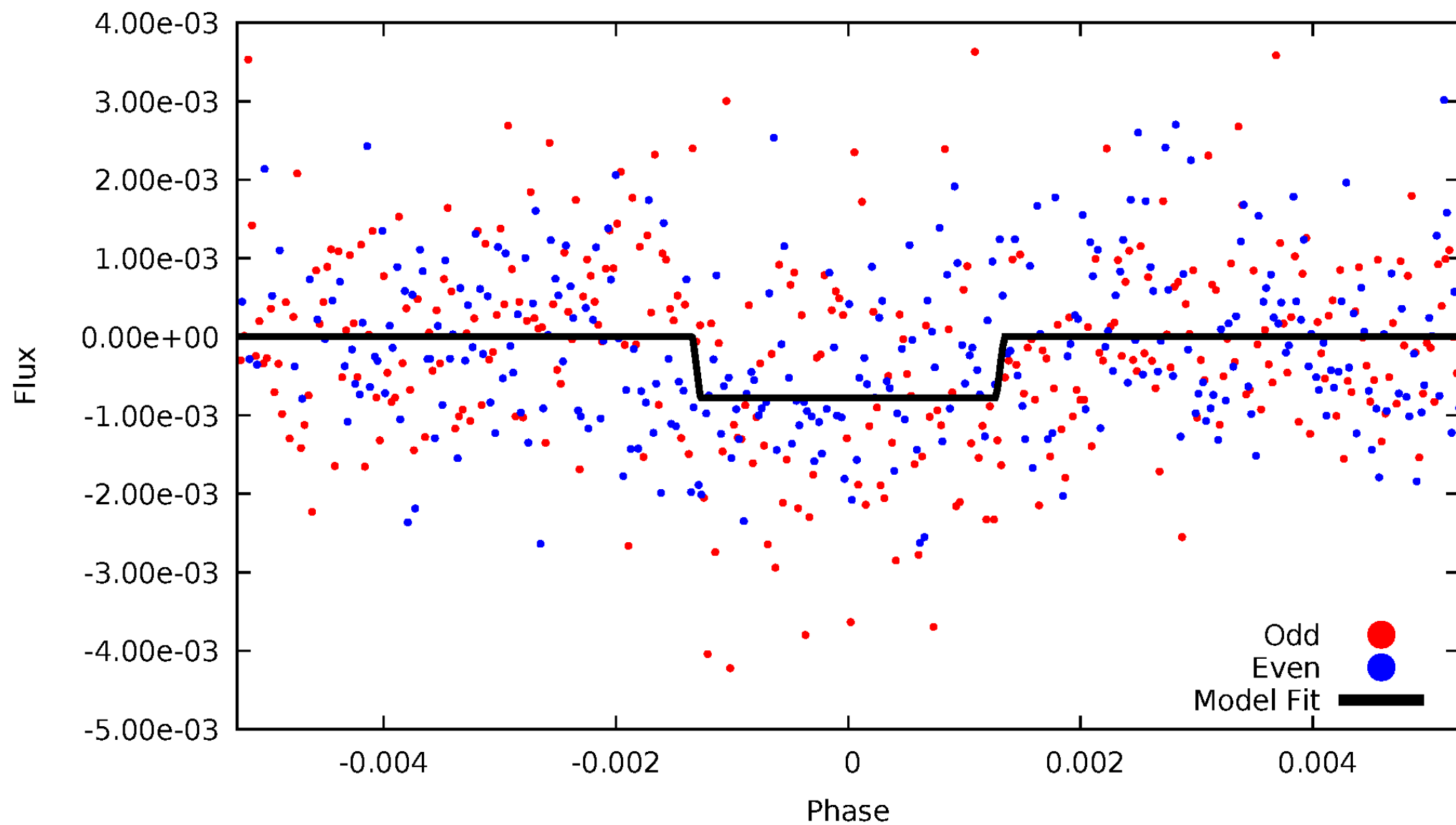
DV Odd/Even

TCE 002695733-01



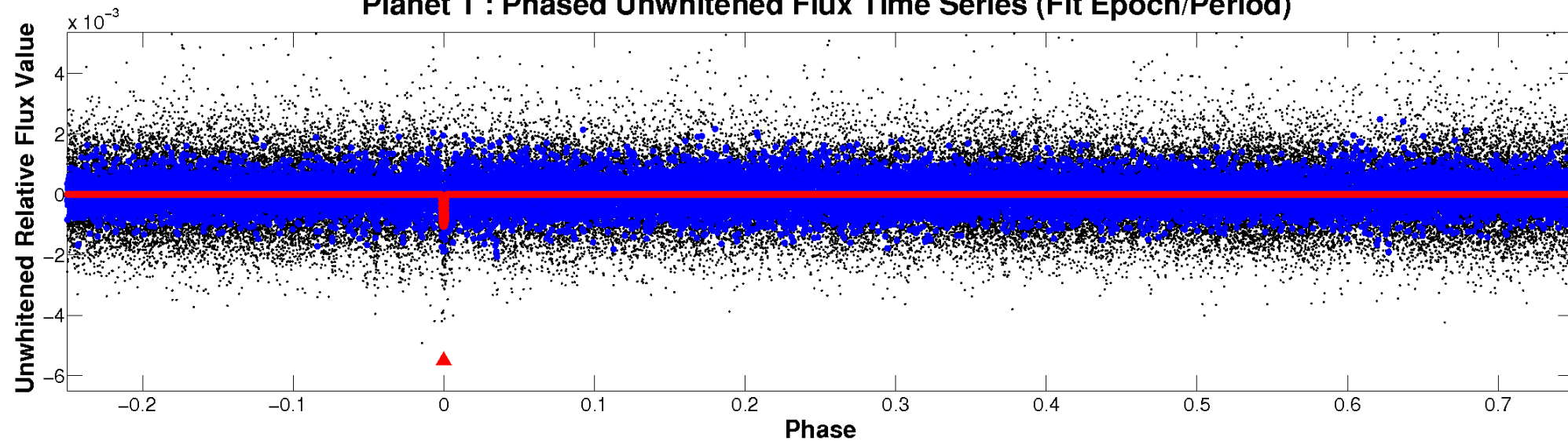
ALT Odd/Even

TCE 002695733-01

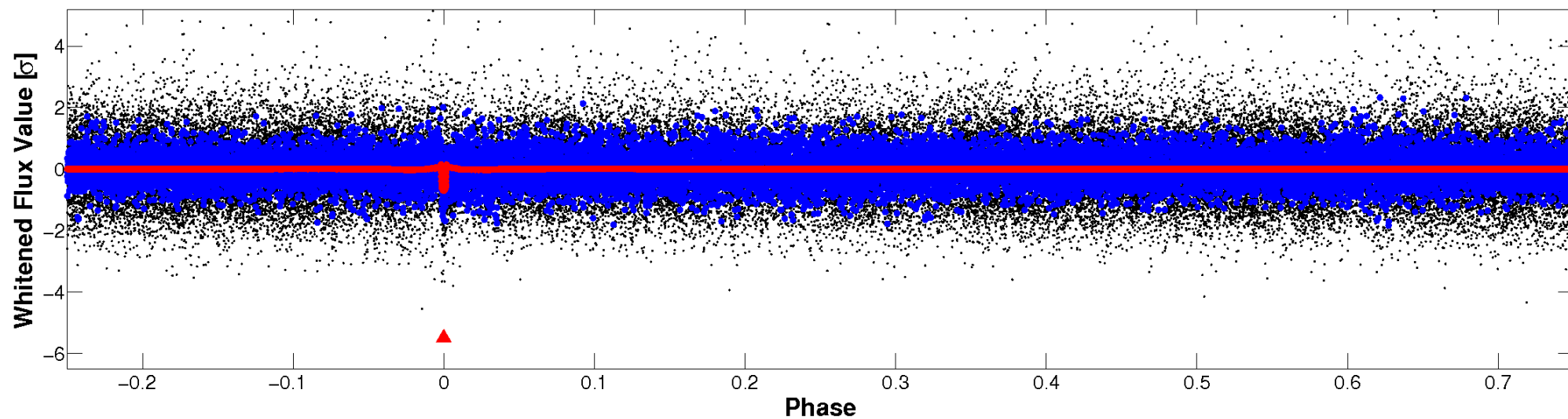


Non-Whitened Vs. Whitened Light Curve

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



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



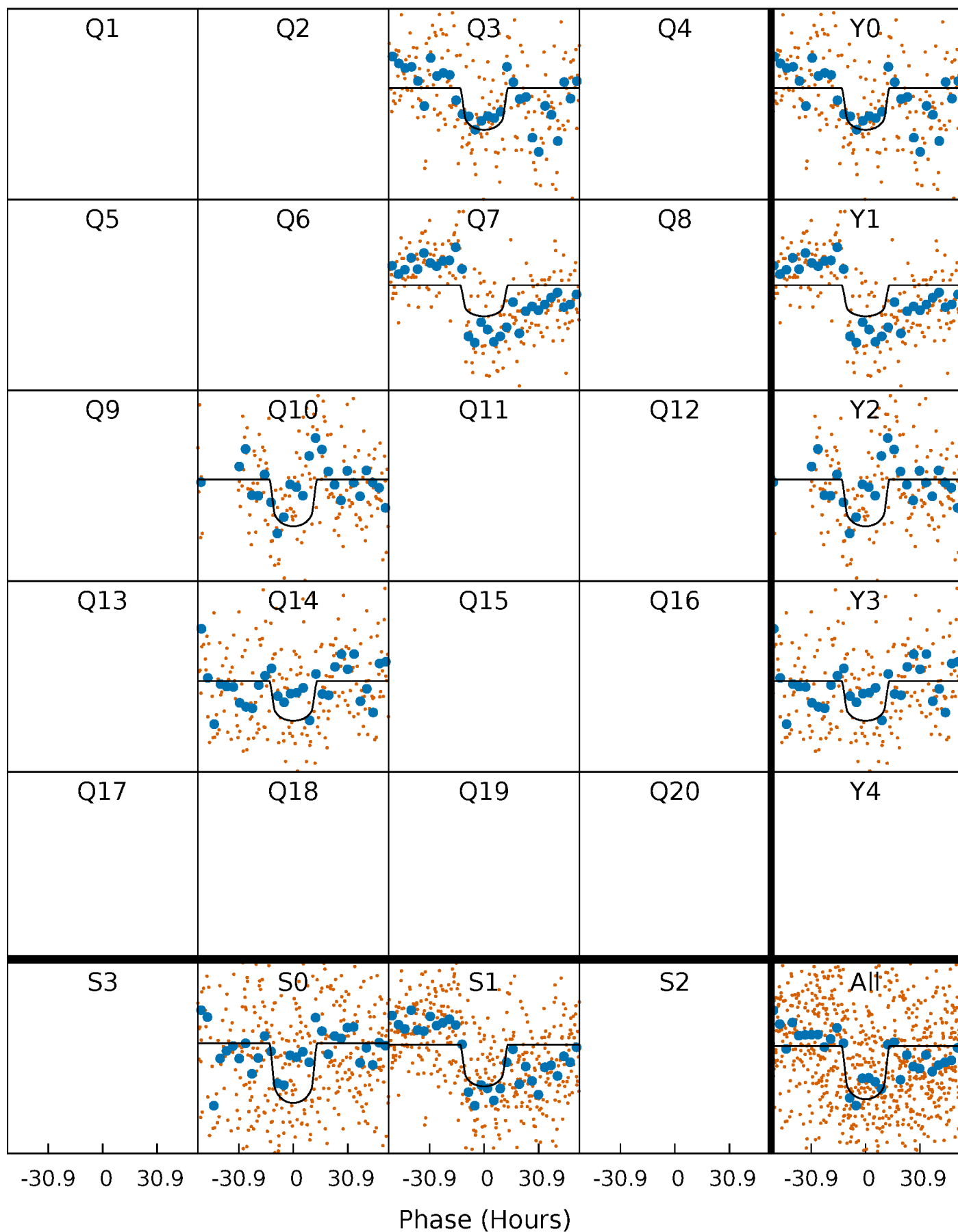
PDC Quarter-Phased Transit Curves

TCE 002695733-01 P=315.157105 Days $T_0=341.070154$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 002695733-01 P=315.157105 Days $T_0=341.070154$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

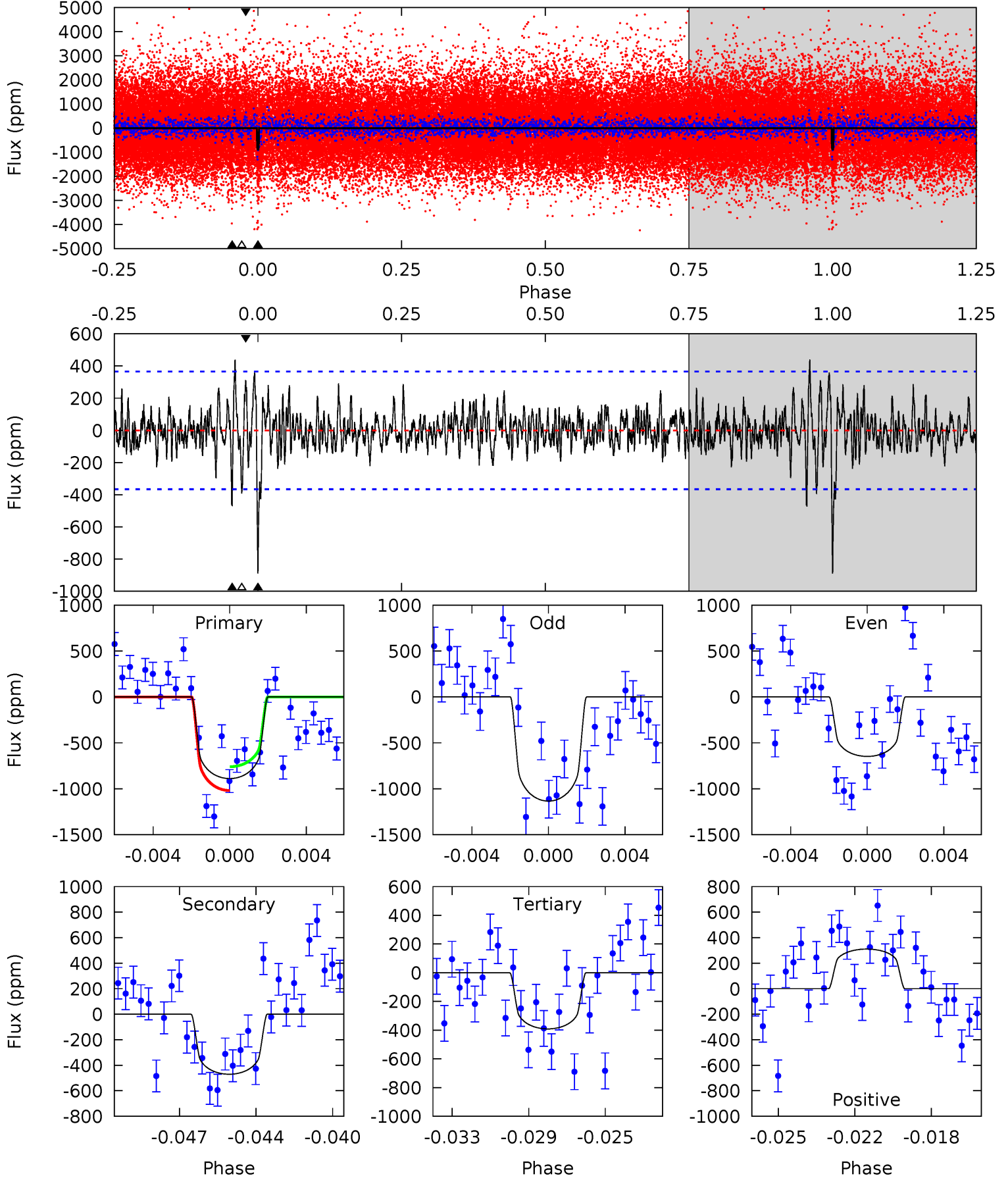
TCE 002695733-01 P=315.296642 Days $T_0=340.862400$ (BKJD)



DV Model-Shift Uniqueness Test

002695733-01, P = 315.157105 Days, E = 25.913049 Days

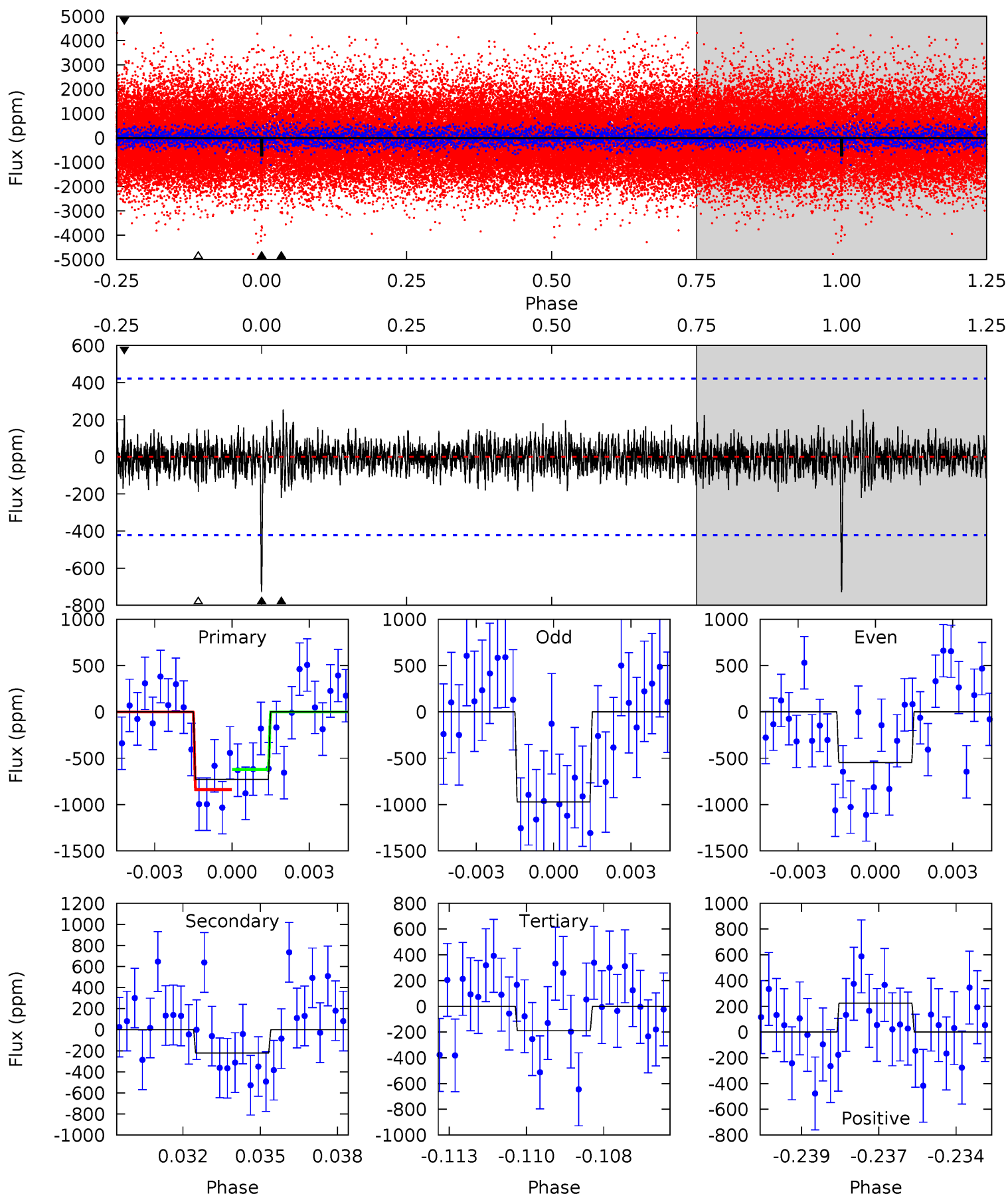
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	6.71	5.59	4.43	5.22	2.91	1.37	7.10	8.25	1.13	2.28	3.47	1.34	0.33	1.85



Alt Model-Shift Uniqueness Test

002695733-01, $P = 315.296642$ Days, $E = 25.565758$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.11	2.77	2.36	2.81	5.27	3.00	0.74	6.75	6.30	0.41	-0.04	2.65	1.34	0.26	1.35



Stellar Parameters For KIC 002695733

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5780^{+1}_{-1}	$4.438^{+1.000}_{-1.000}$	$0.000^{+1.000}_{-1.000}$	$1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$
	+0%/-0%	+23%/-23%	+inf%/-inf%	+100%/-100%	+100%/-100%	+100%/-100%
Source	Solar	Solar	Solar	Solar		

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

Secondary Eclipse Parameters for KIC 002695733-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-470 ± 70	$3.75^{+0.55}_{-0.50}$	375^{+17}_{-18}	4722^{+323}_{-272}	15149^{+5573}_{-4077}
Alt.	-222 ± 80	$3.07^{+0.49}_{-0.51}$	373^{+19}_{-18}	4383^{+432}_{-416}	10383^{+6033}_{-4287}

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

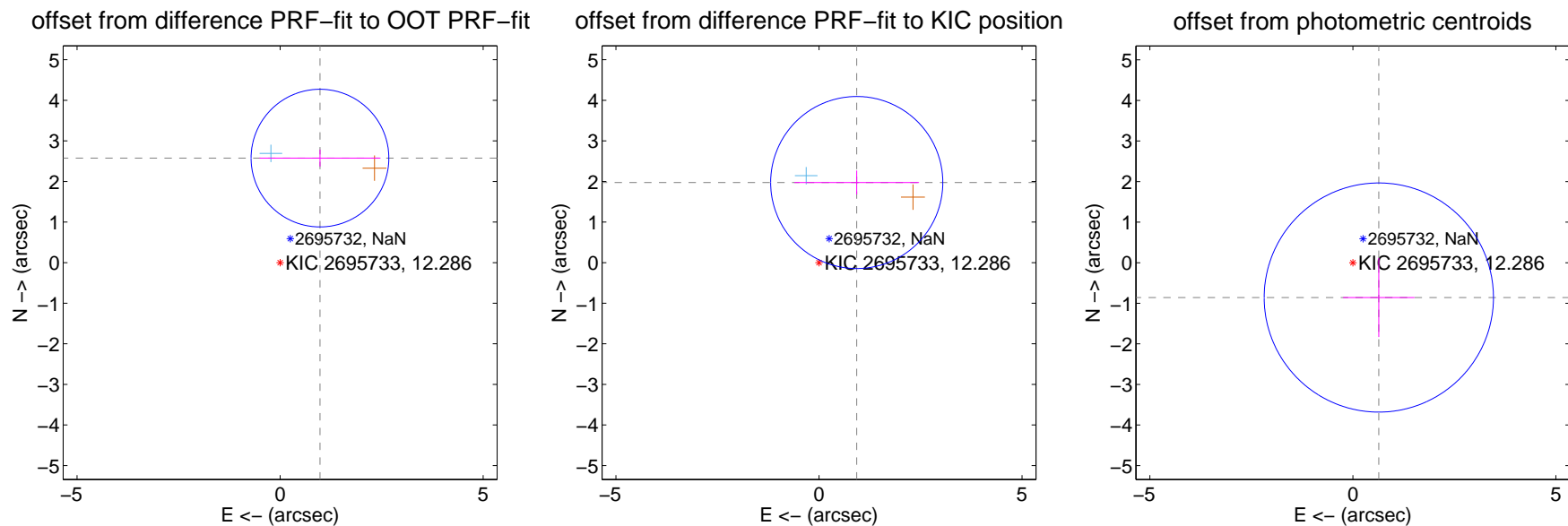
DV Centroid Data

Supplemental centroid analysis for 002695733-01. Kepler magnitude: 12.29. Transit SNR 8.77

There are 1 quarters with good PRF difference image offsets

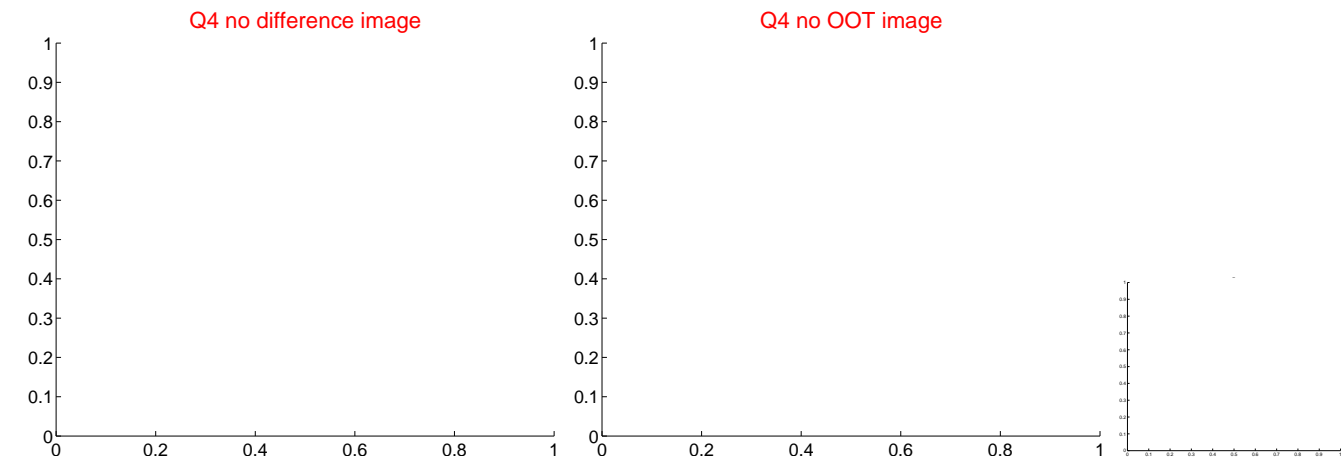
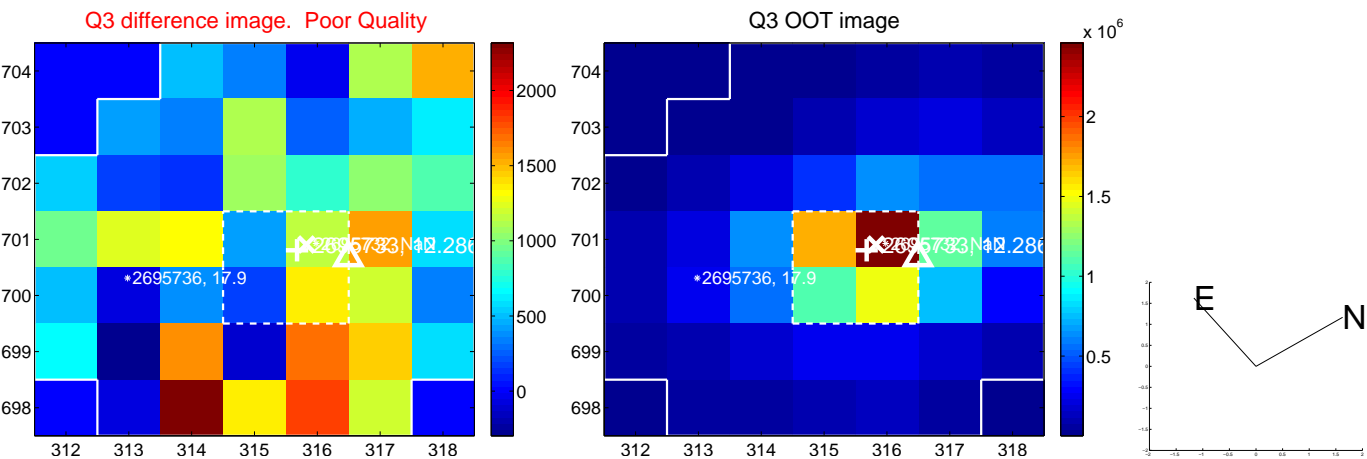
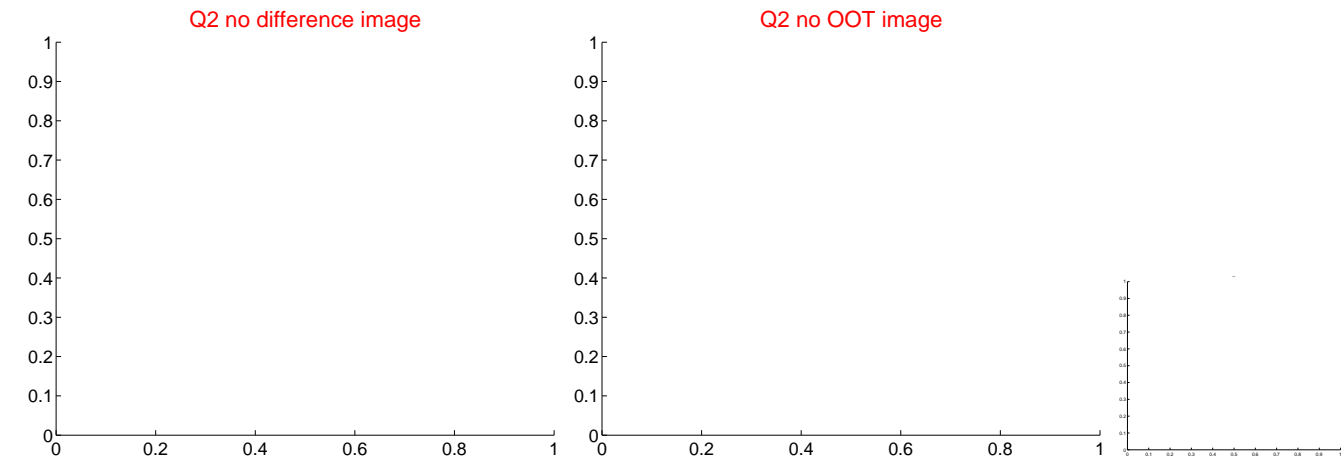
The direct PRF centroid is offset from the target star catalog position by about 0.56 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.757 ± 0.565	4.88	-0.981 ± 1.490	2.576 ± 0.209
PRF-fit source offset from KIC position	2.182 ± 0.706	3.09	-0.929 ± 1.536	1.974 ± 0.295
photometric centroid source offset	1.07 ± 0.94	1.14	-0.64 ± 0.88	-0.86 ± 0.97



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.

Q5 no difference image



Q5 no OOT image



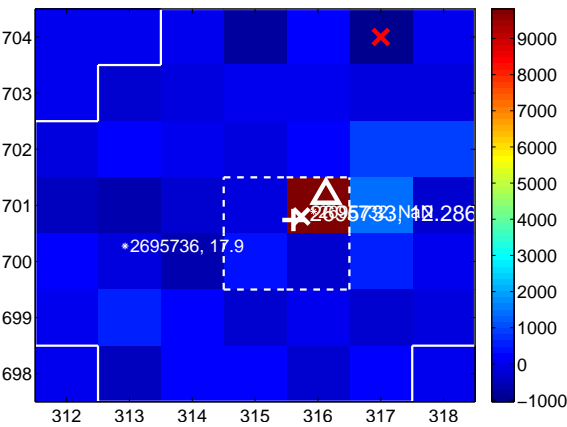
Q6 no difference image



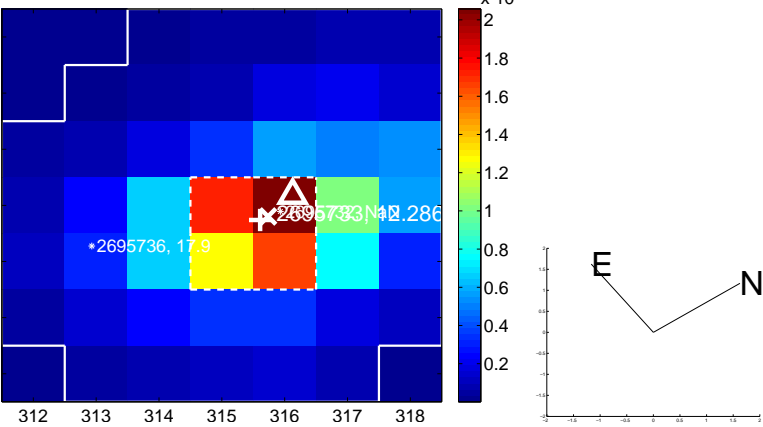
Q6 no OOT image



Q7 difference image



Q7 OOT image



Q8 no difference image



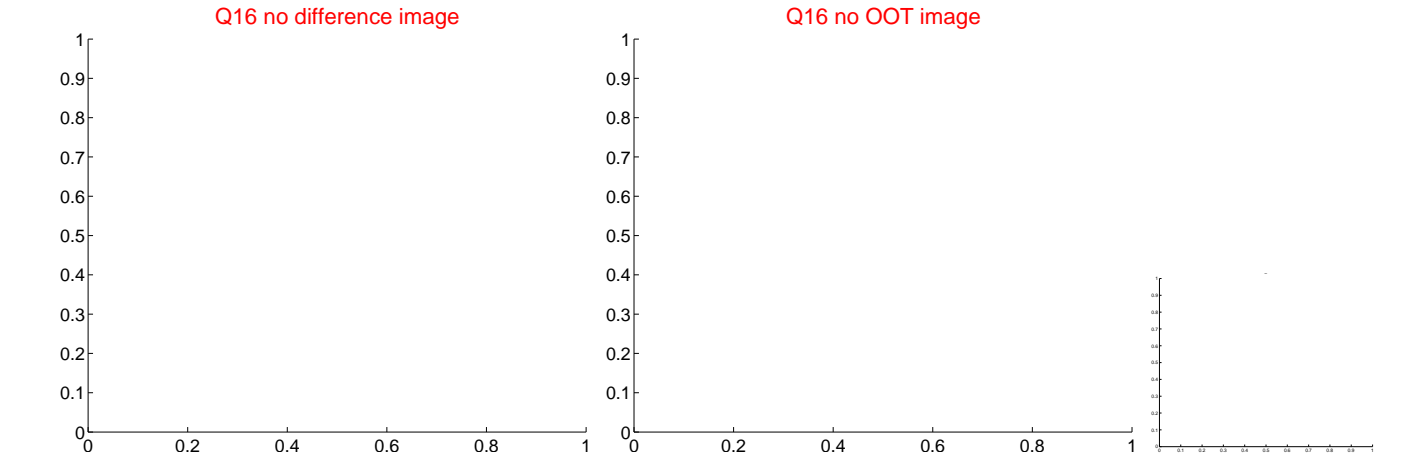
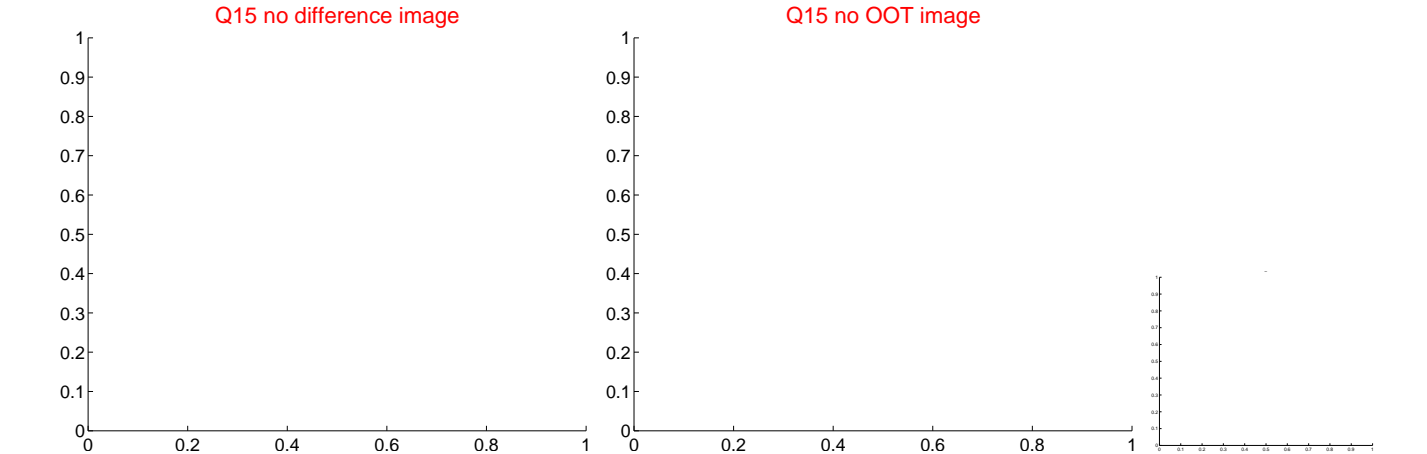
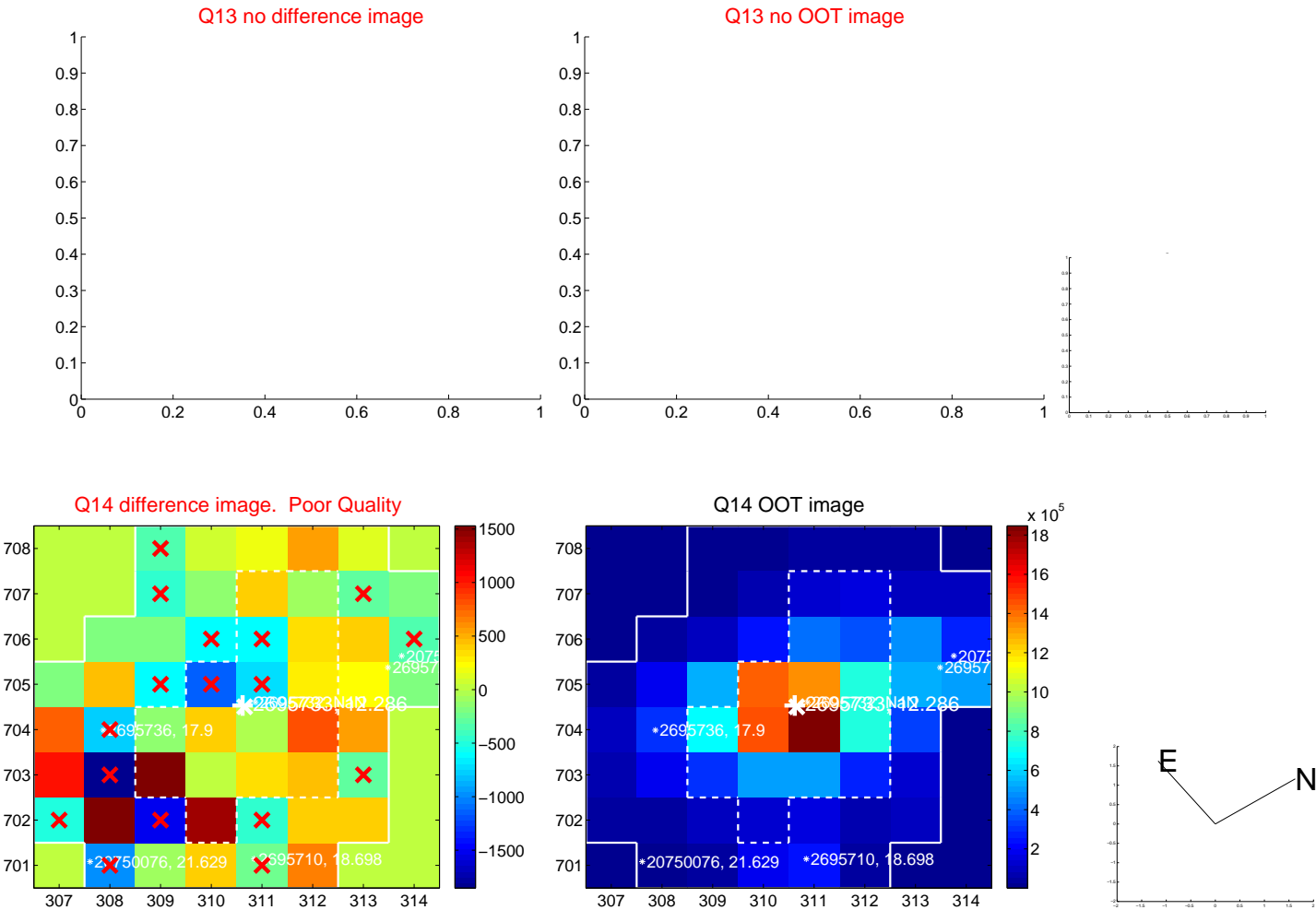
Q8 no OOT image



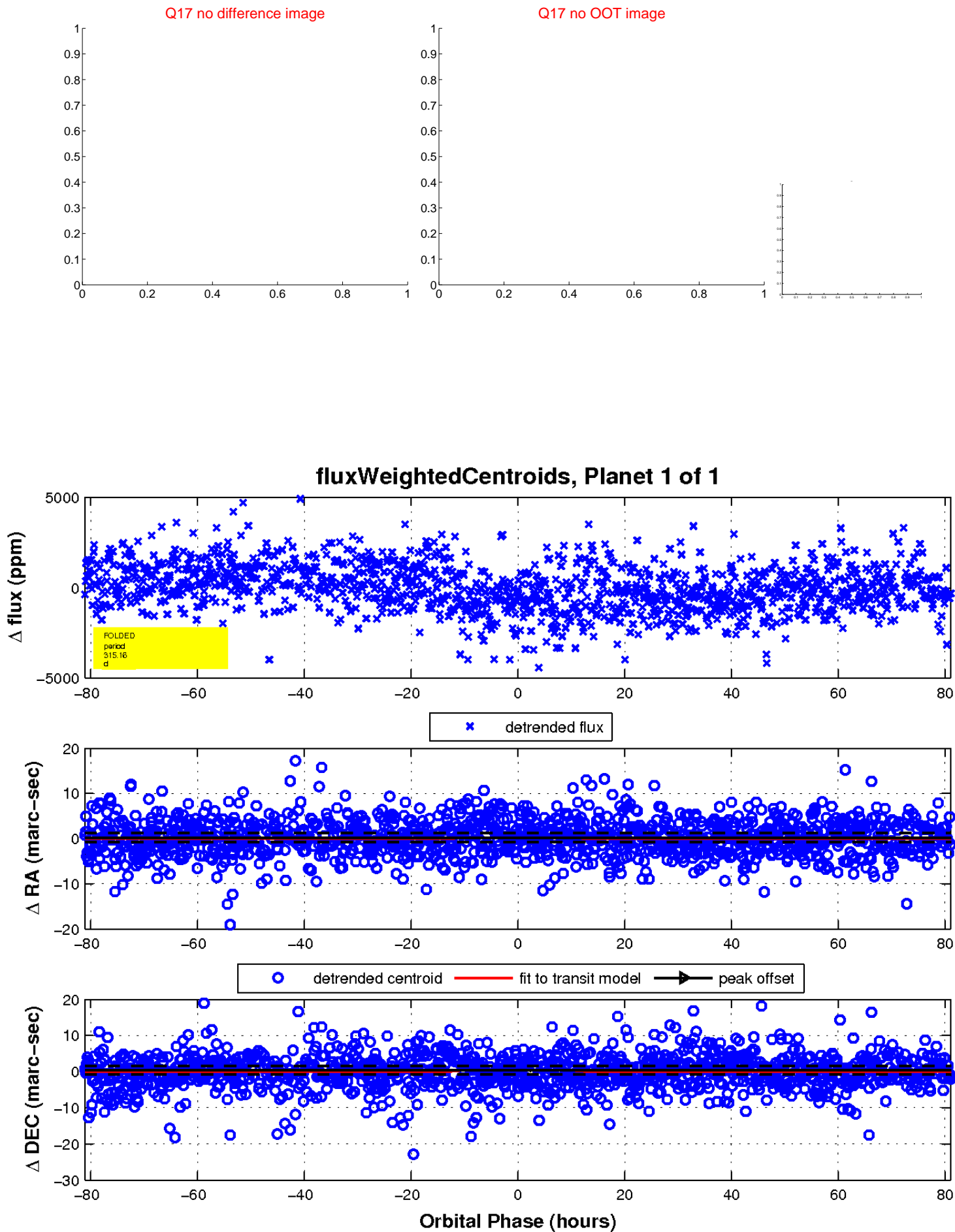
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white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



Declination