

KIC 008106805

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})
008106805-01	OBS	No	560.847457	186.819921	788.4	12.200	8.3	7.9	0.84	5520	2.95	0.35

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008106805-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—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.

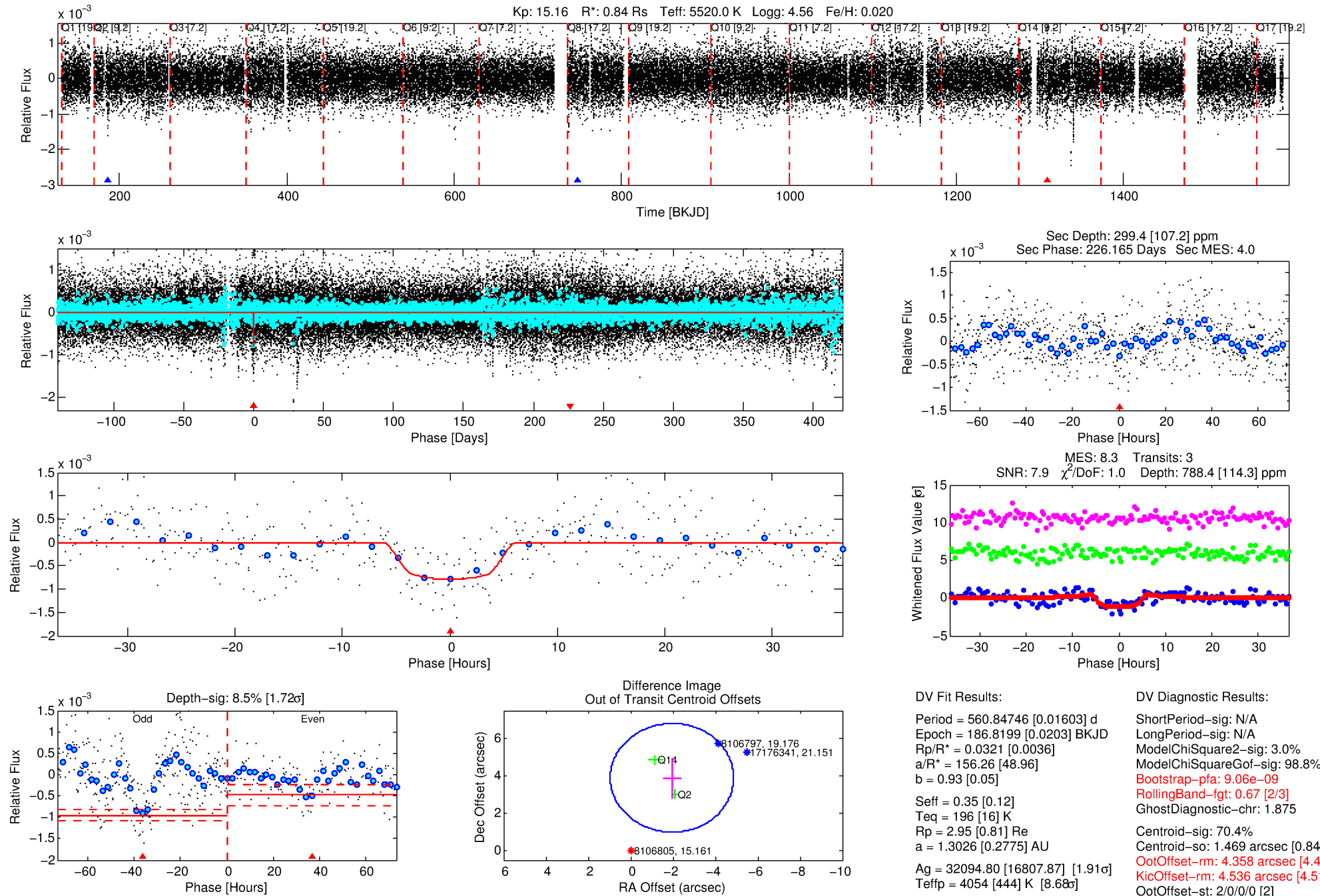
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008106805-01

No Significant Match Found

DV One-Page Summary

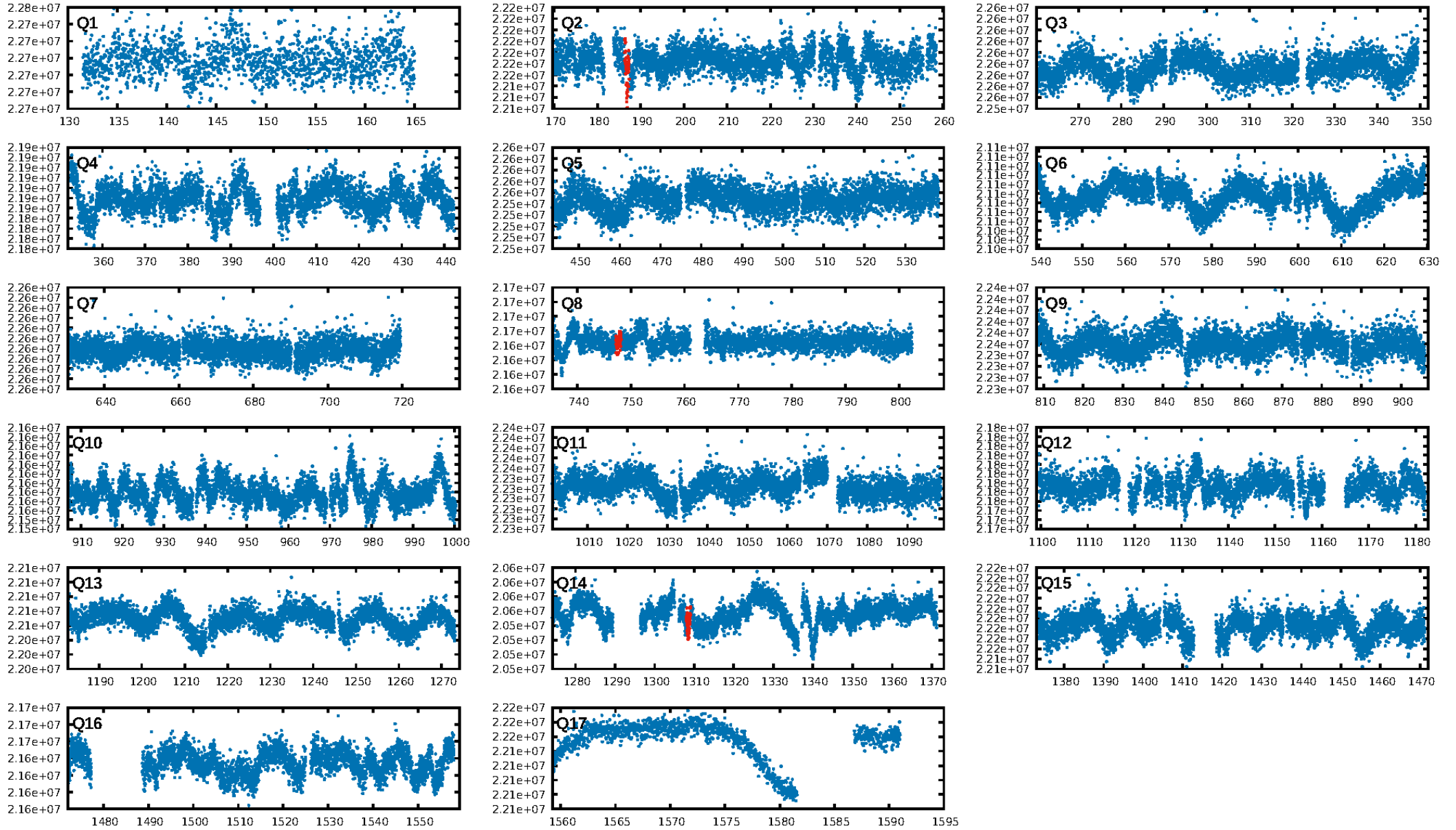
KIC: 8106805 Candidate: 1 of 1 Period: 560.847 d



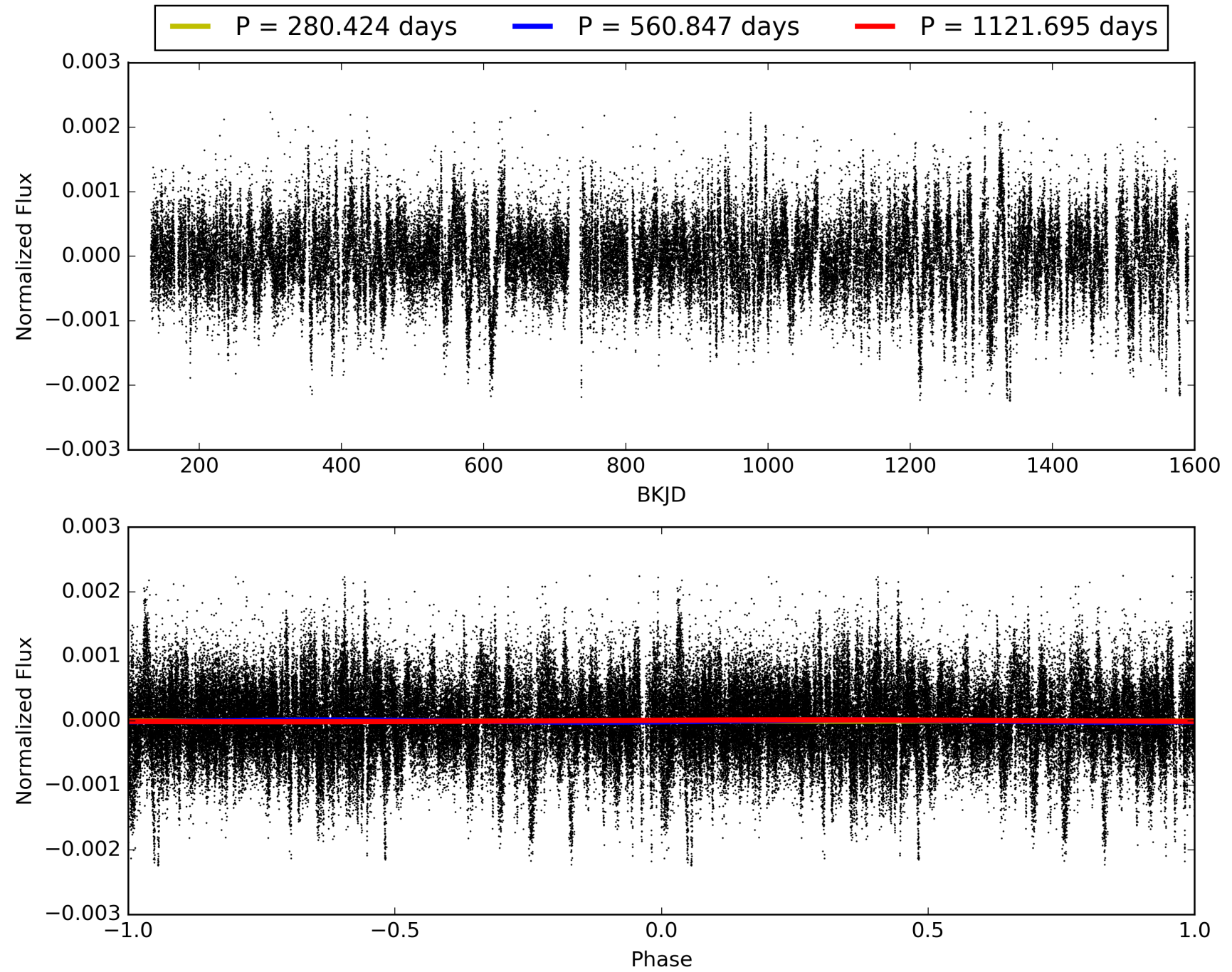
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:48:02 Z

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

TCE 008106805-01, PDC Light Curves

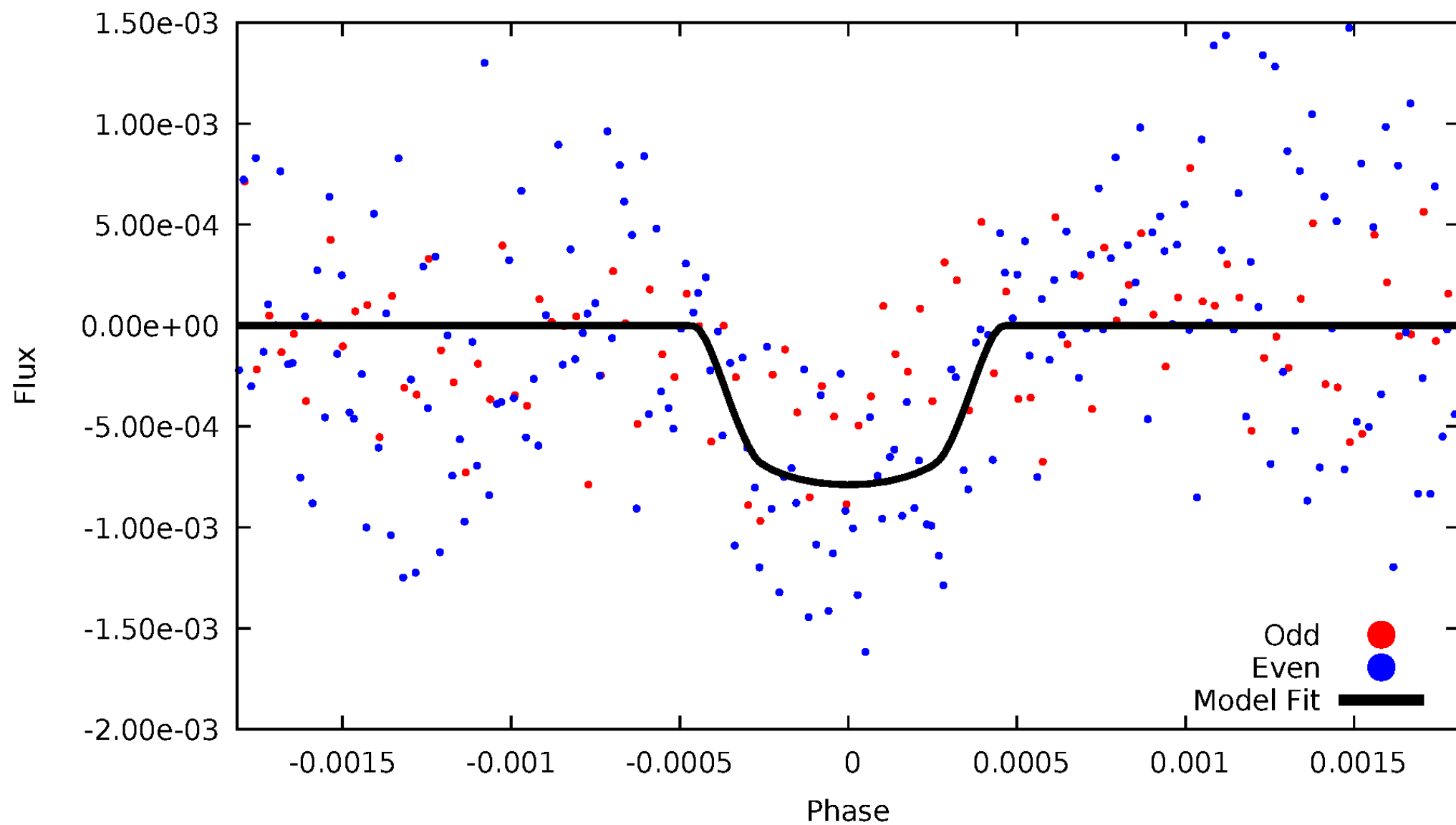


TCE 008106805-01



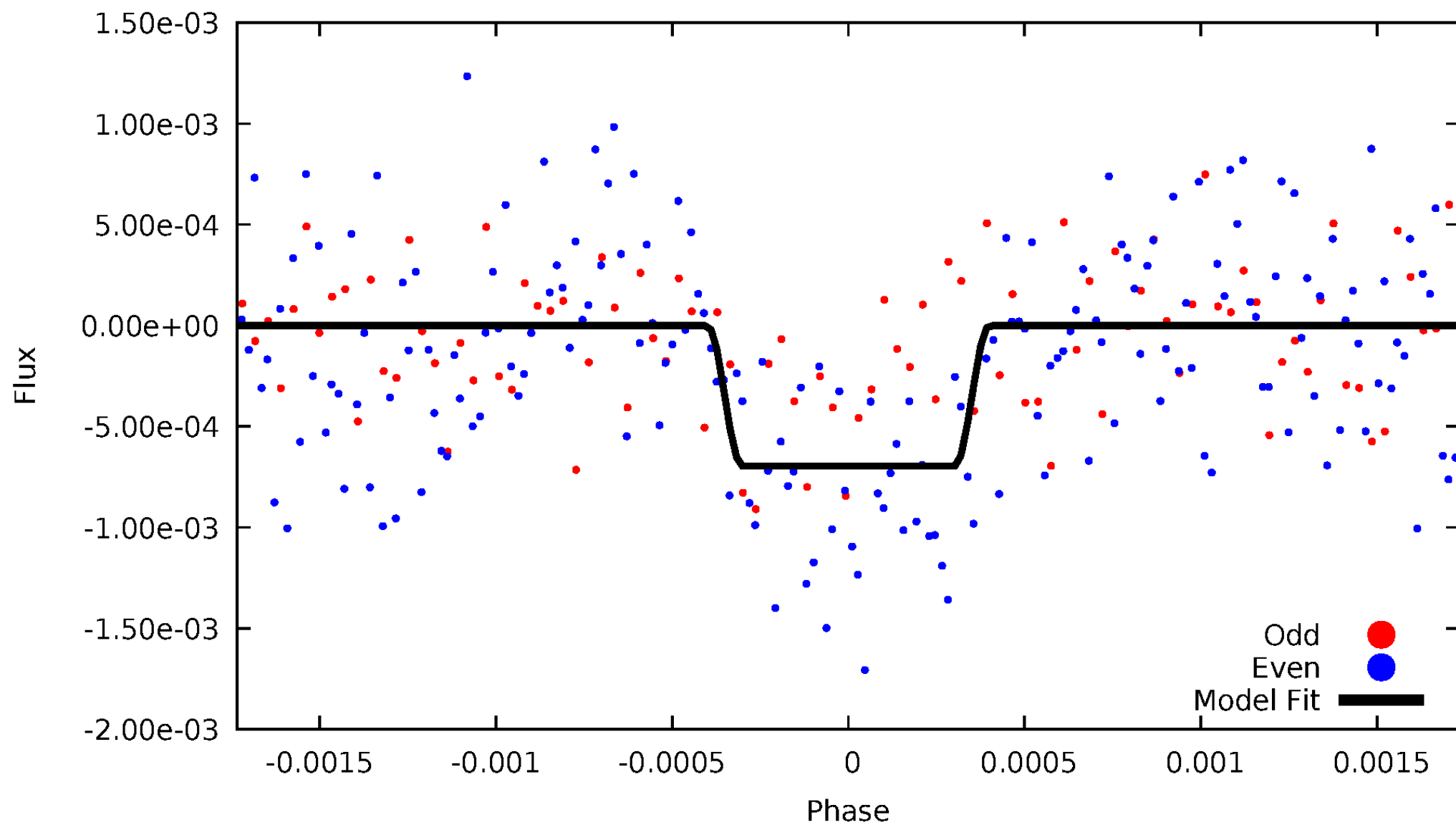
DV Odd/Even

TCE 008106805-01

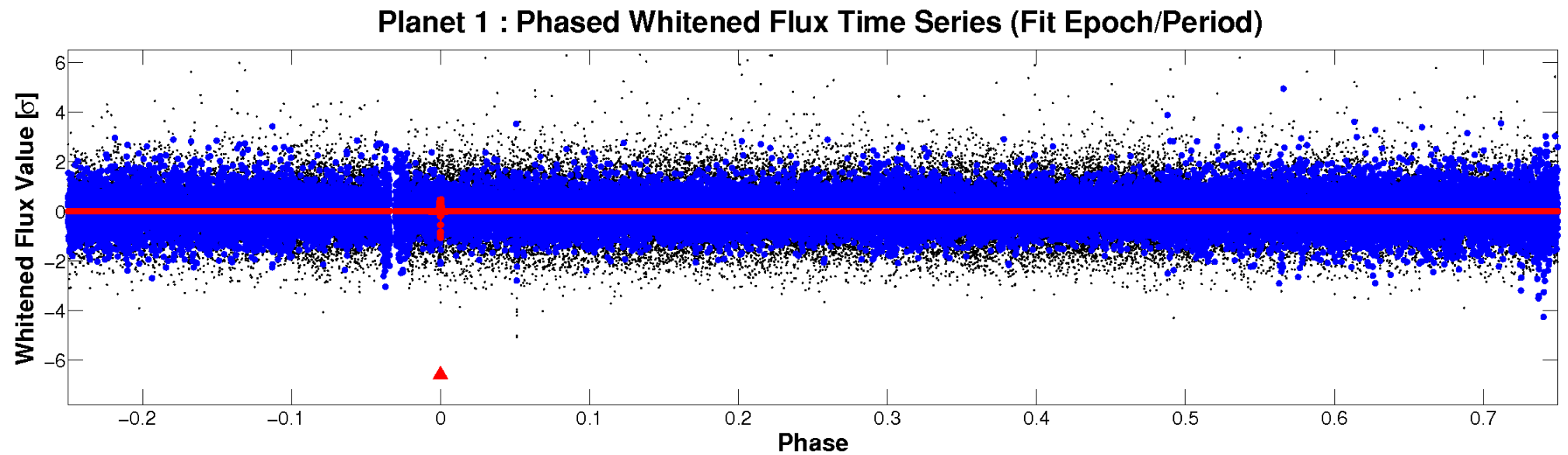
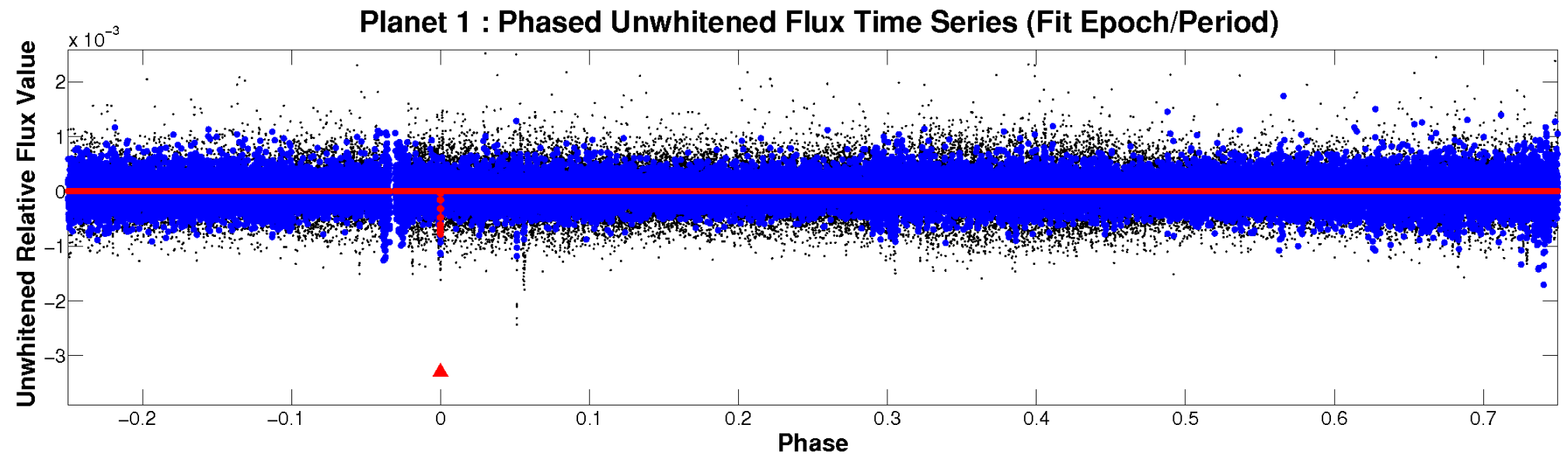


ALT Odd/Even

TCE 008106805-01

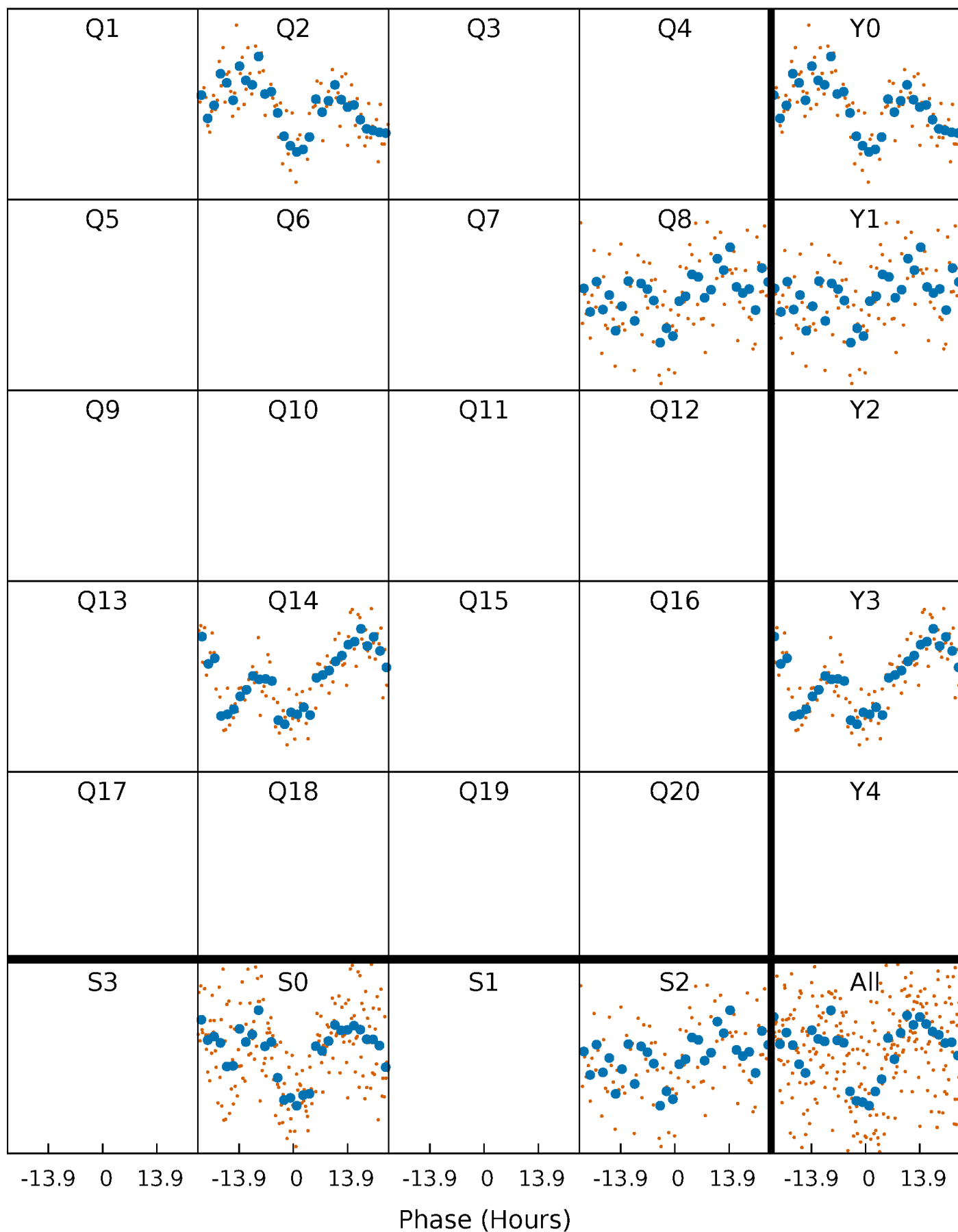


Non-Whitened Vs. Whitened Light Curve



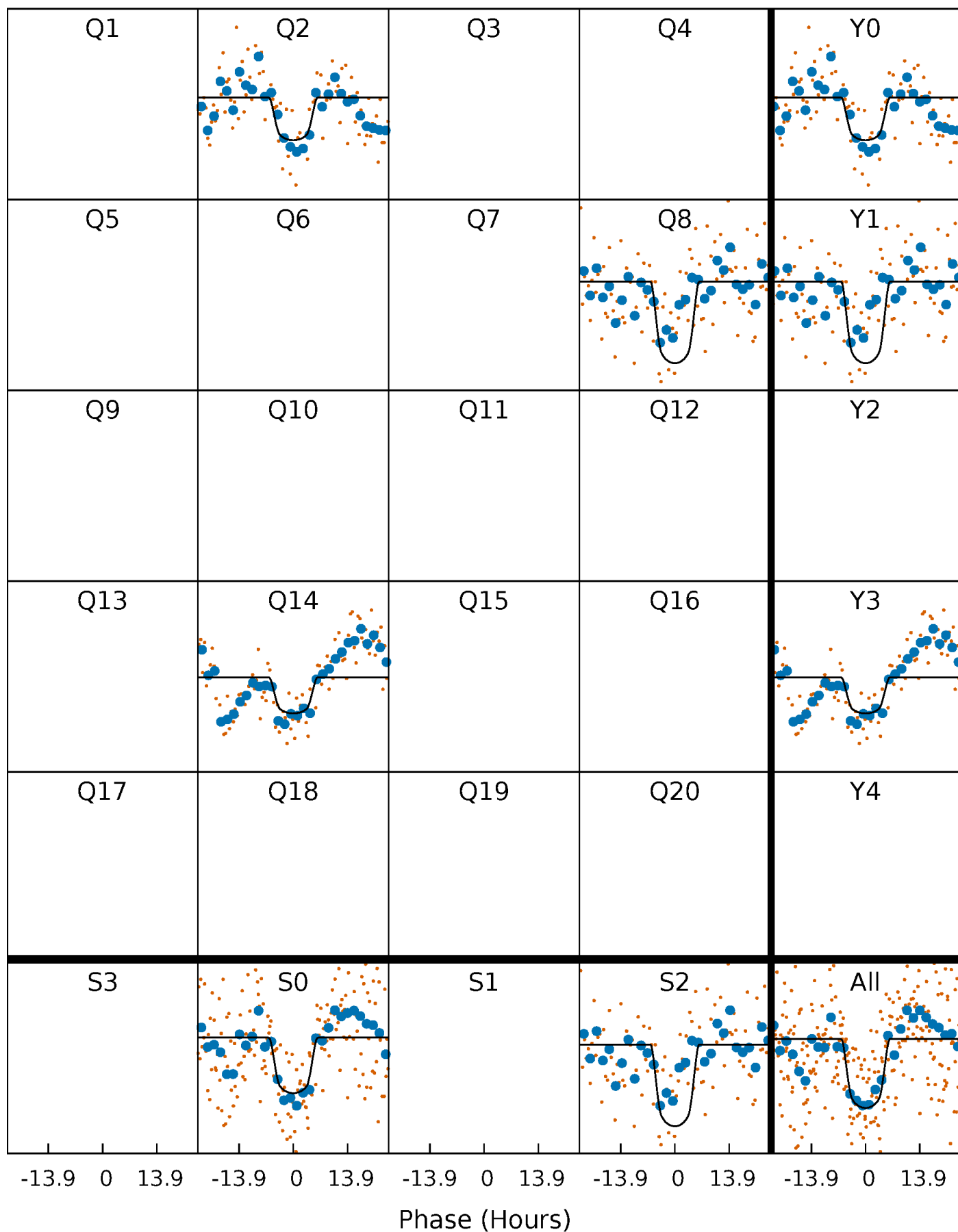
PDC Quarter-Phased Transit Curves

TCE 008106805-01 P=560.847457 Days $T_0=186.819921$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008106805-01 P=560.847457 Days $T_0=186.819921$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

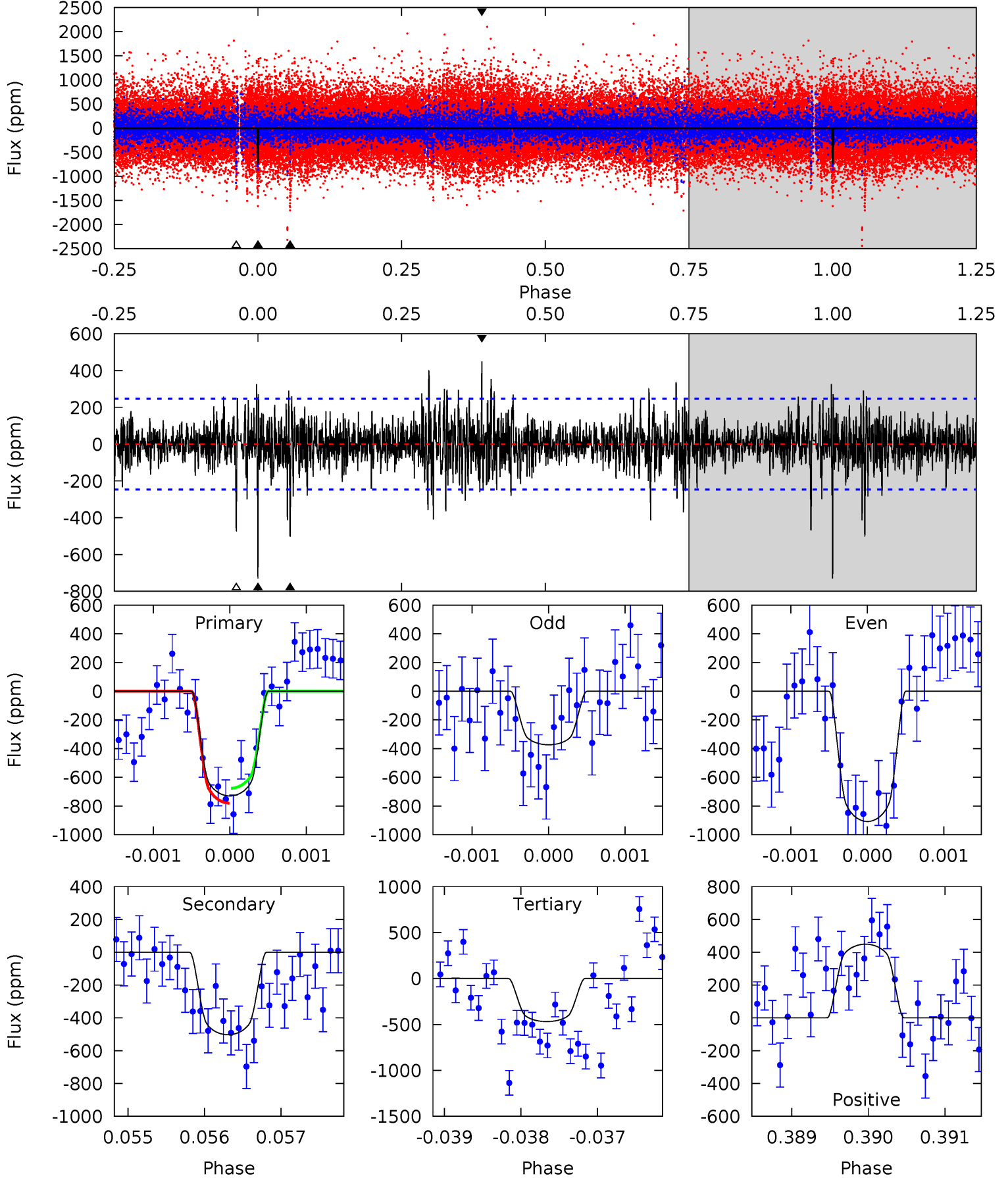
TCE 008106805-01 P=560.846733 Days $T_0=186.821641$ (BKJD)



DV Model-Shift Uniqueness Test

008106805-01, P = 560.847457 Days, E = 186.819921 Days

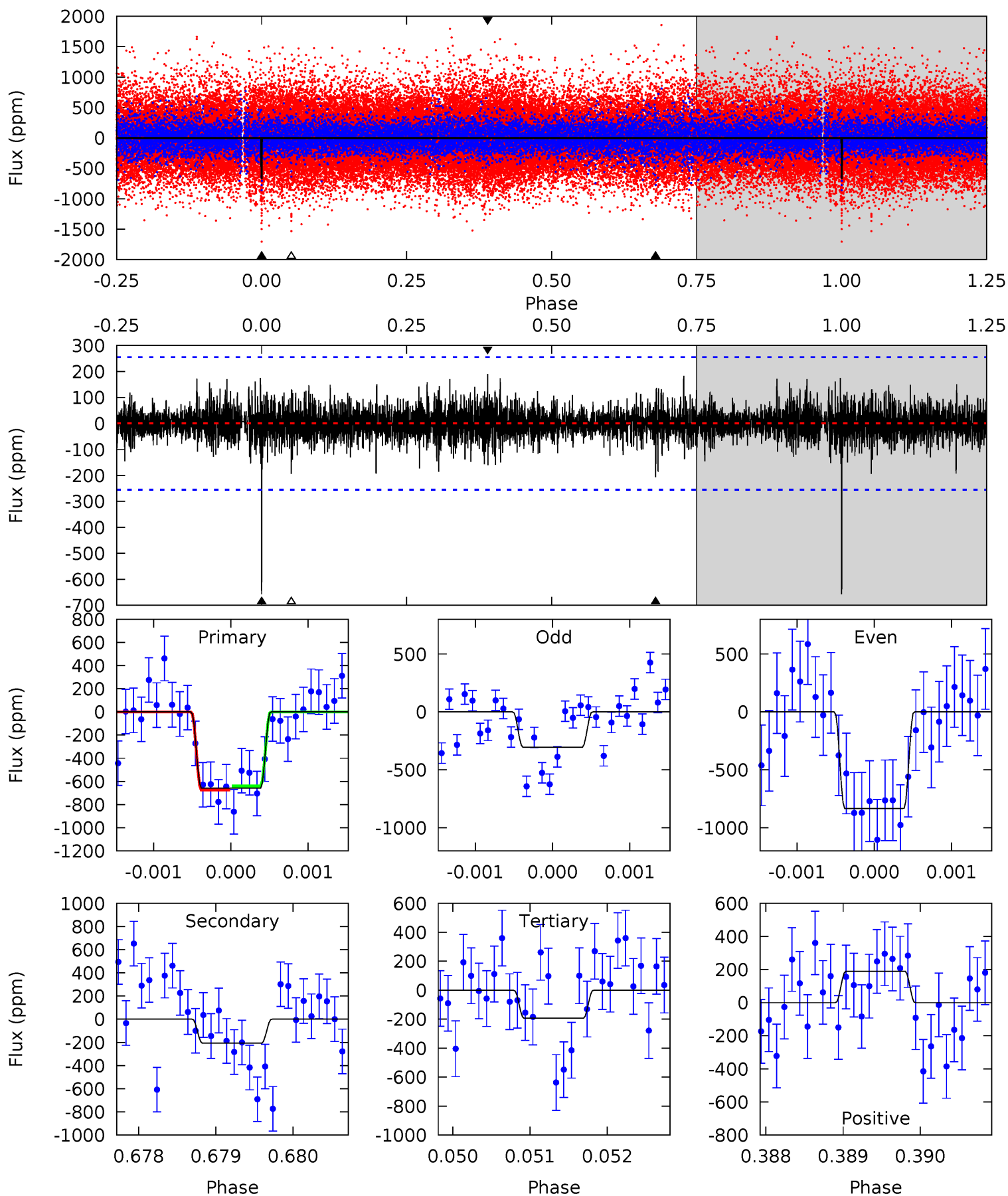
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.2	11.2	10.4	9.96	5.46	3.31	2.06	5.78	6.23	0.75	1.19	5.64	0.84	0.38	1.15



Alt Model-Shift Uniqueness Test

008106805-01, P = 560.846733 Days, E = 186.821641 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.1	4.45	4.17	4.09	5.49	3.36	1.01	9.98	10.1	0.27	0.36	5.39	0.83	0.22	0.38



Stellar Parameters For KIC 008106805

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5520^{+166}_{-166}	$4.558^{+0.030}_{-0.170}$	$0.020^{+0.250}_{-0.300}$	$0.843^{+0.213}_{-0.071}$	$0.936^{+0.083}_{-0.102}$	$2.201^{+0.359}_{-0.995}$
	+3%/-3%	+1%/-4%	+1250%/-1500%	+25%/-8%	+9%/-11%	+16%/-45%
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 008106805-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-503 ± 45	$3.09^{+0.47}_{-0.39}$	281^{+16}_{-12}	4736^{+278}_{-252}	48268^{+15975}_{-12360}
Alt.	-207 ± 46	$2.53^{+0.43}_{-0.41}$	281^{+16}_{-13}	4302^{+317}_{-291}	29023^{+14840}_{-9172}

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

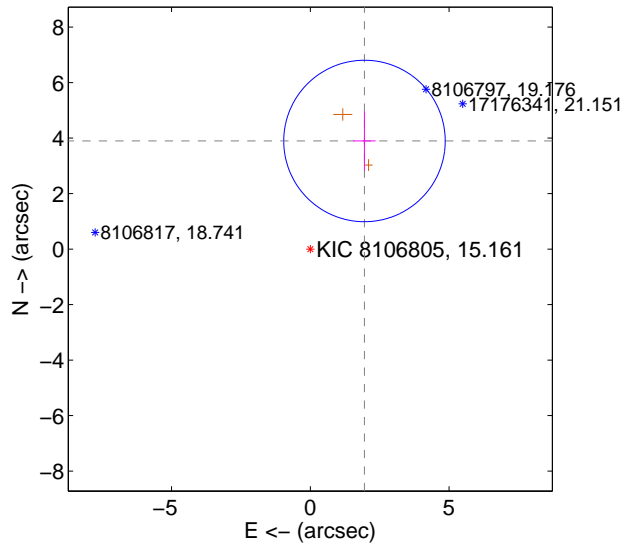
Supplemental centroid analysis for 008106805-01. Kepler magnitude: 15.16. Transit SNR 7.90

There are 0 quarters with good PRF difference image offsets

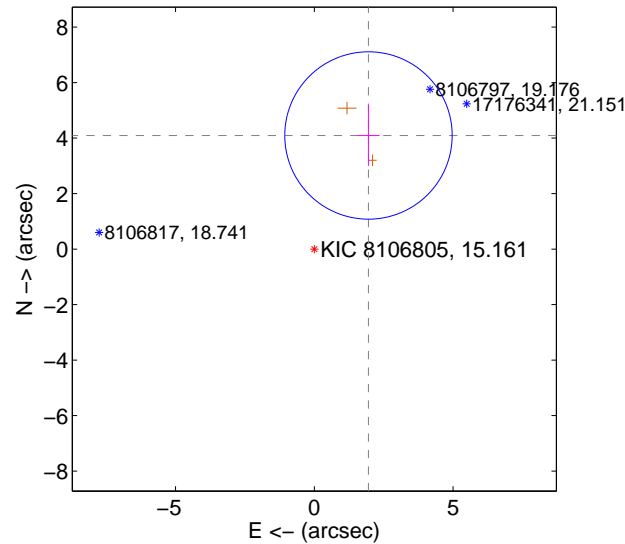
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.358 ± 0.970	4.49	-1.952 ± 0.403	3.896 ± 1.066
PRF-fit source offset from KIC position	4.536 ± 1.005	4.51	-1.952 ± 0.397	4.094 ± 1.097
photometric centroid source offset	1.47 ± 1.76	0.84	-1.45 ± 1.75	0.26 ± 2.01

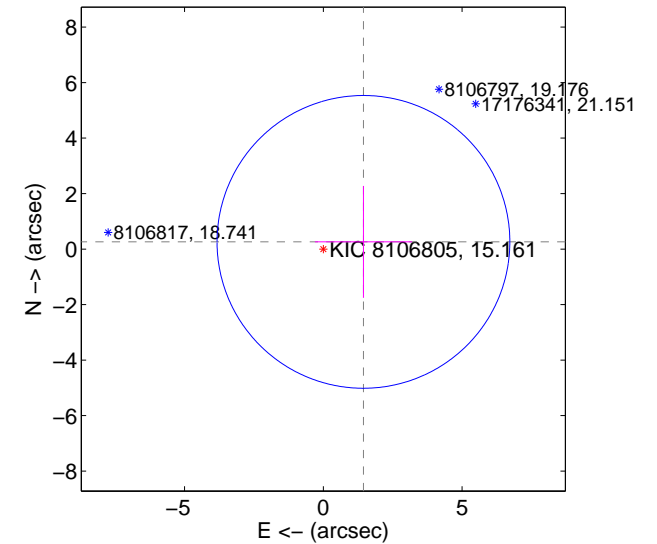
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

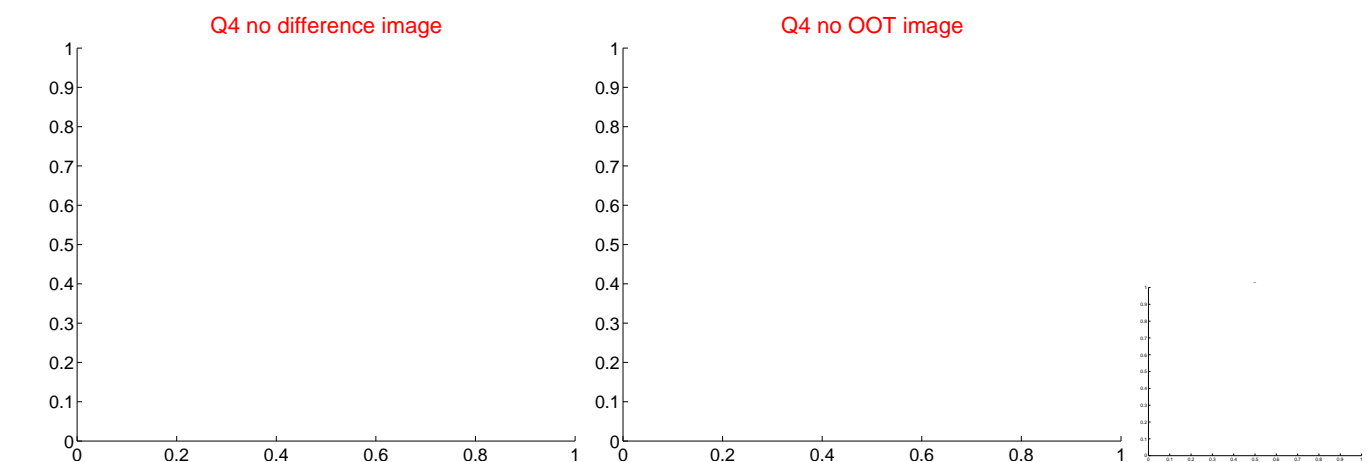
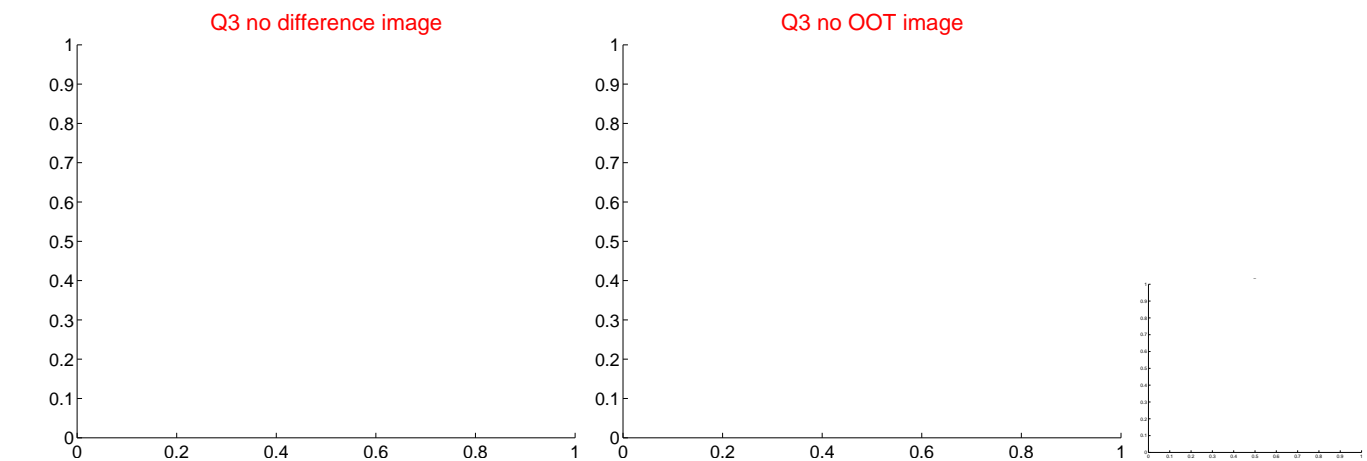
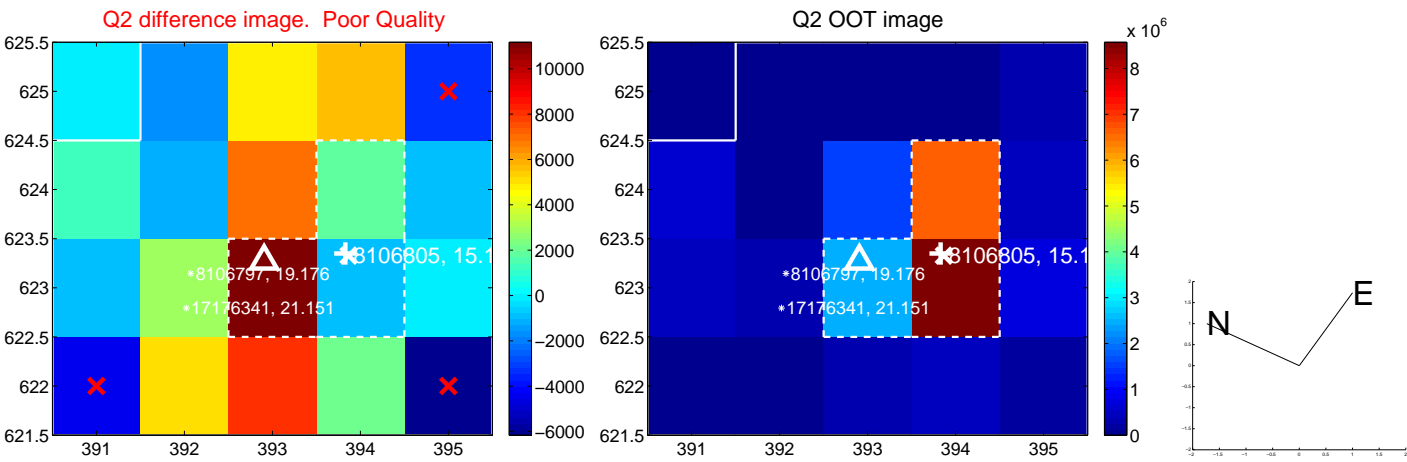
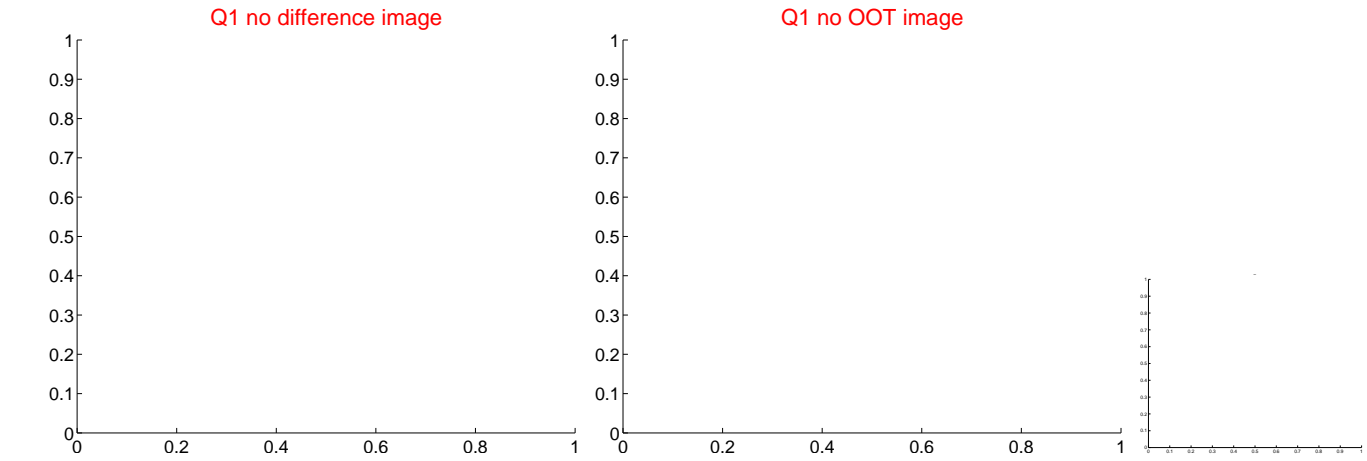


offset from photometric centroids

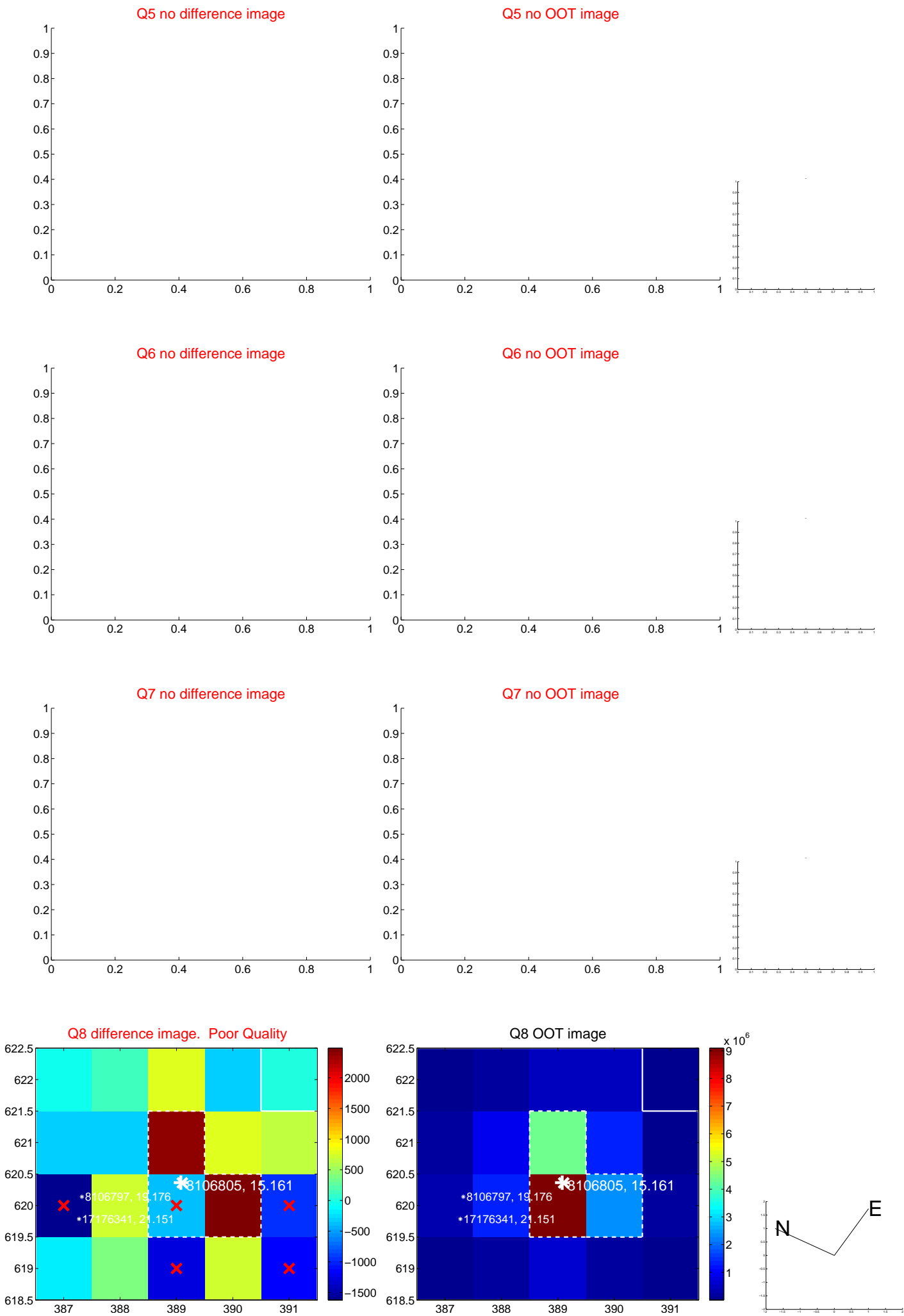


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



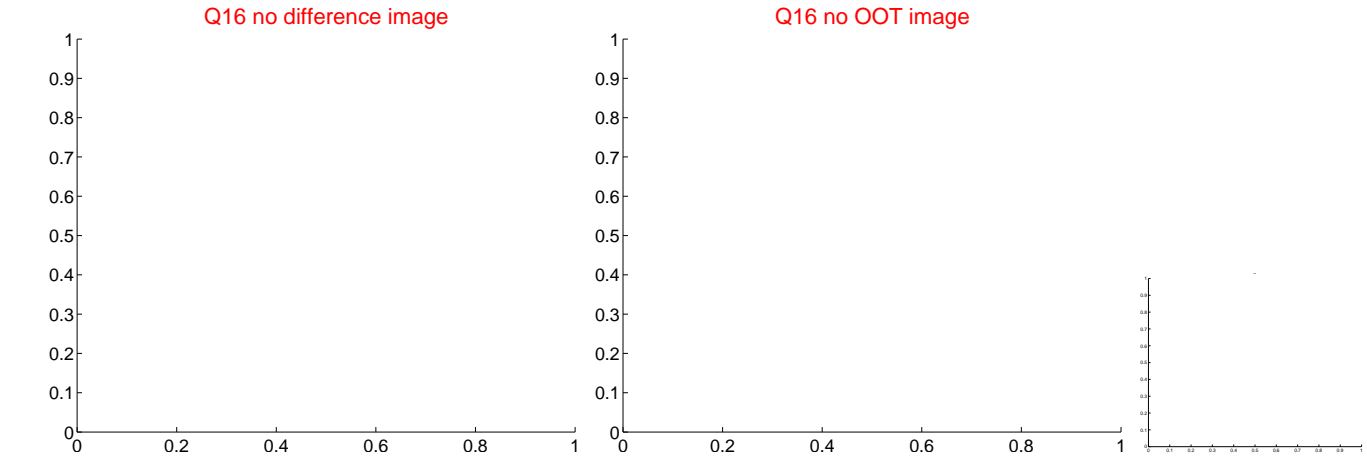
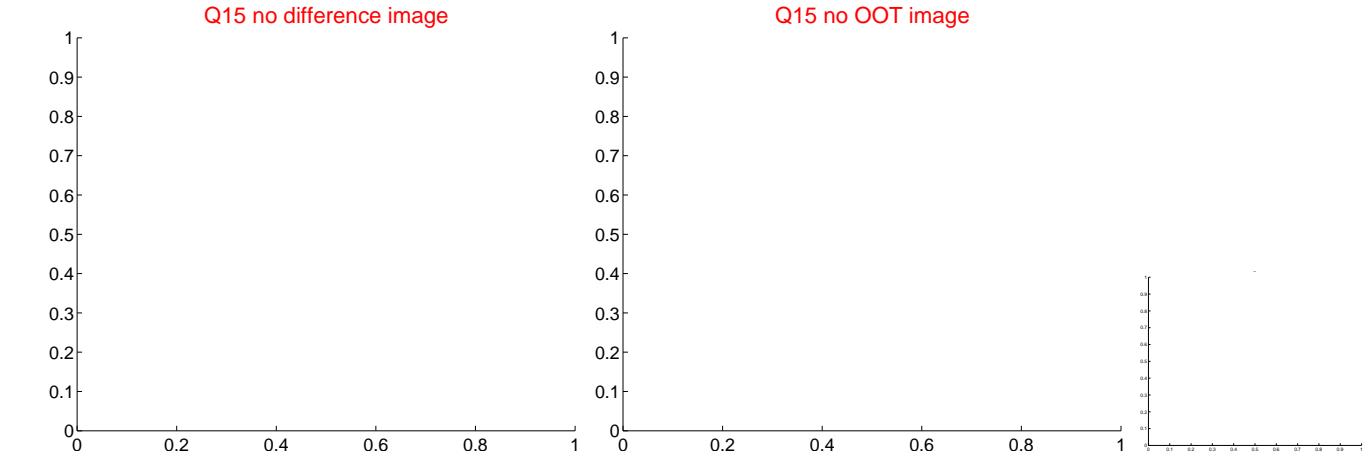
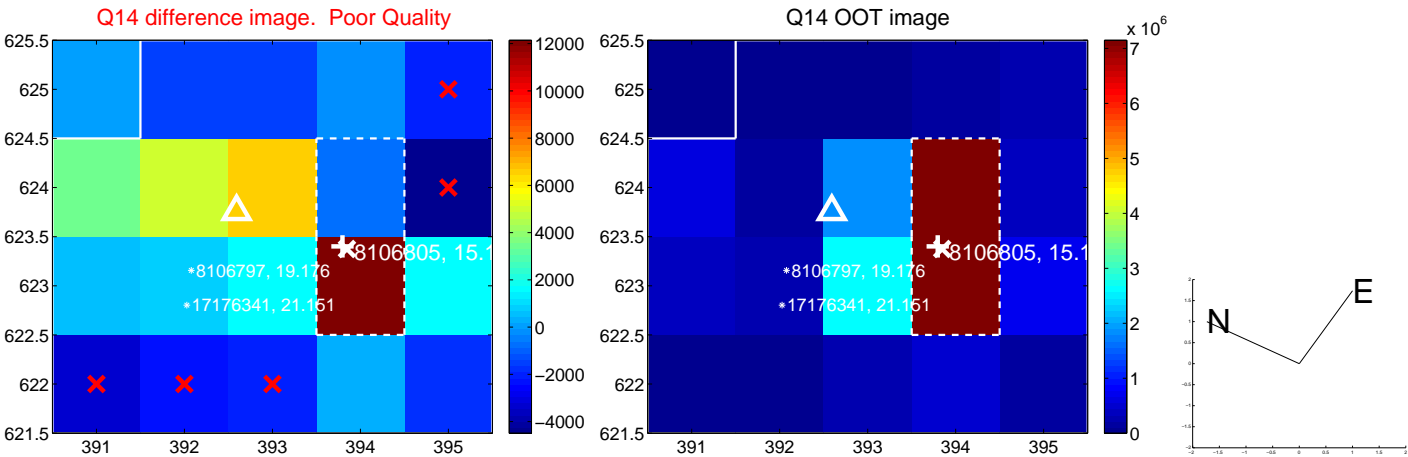
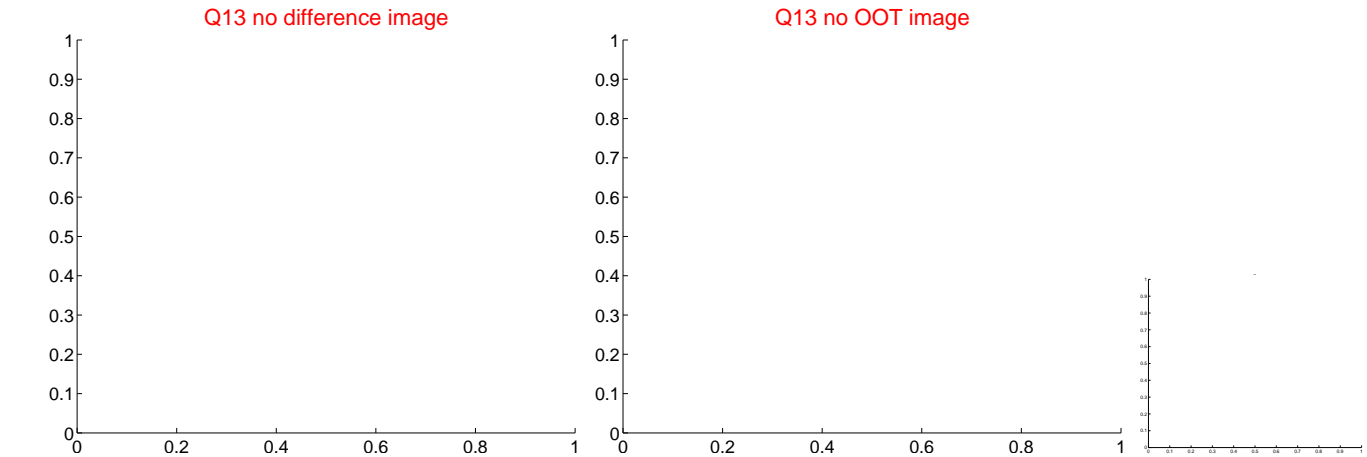
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



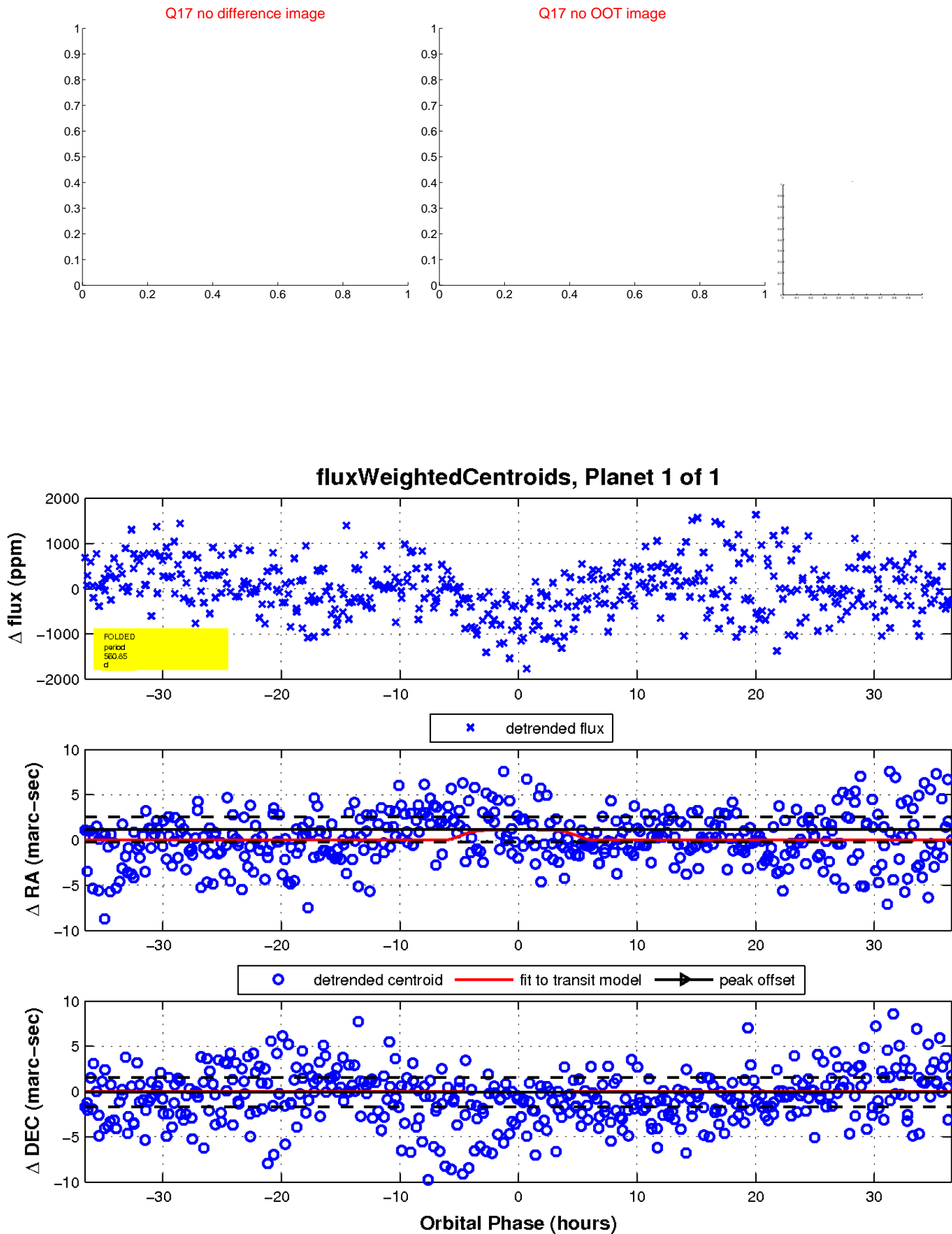
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

