

KIC 008025380

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})
008025380-01	OBS	No	369.868978	298.784723	685.1	84.019	8.0	11.7	0.80	5372	4.18	0.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008025380-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL_SKYE—MOD_NONUNIQ_ALT—MOD_POS_ALT—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.

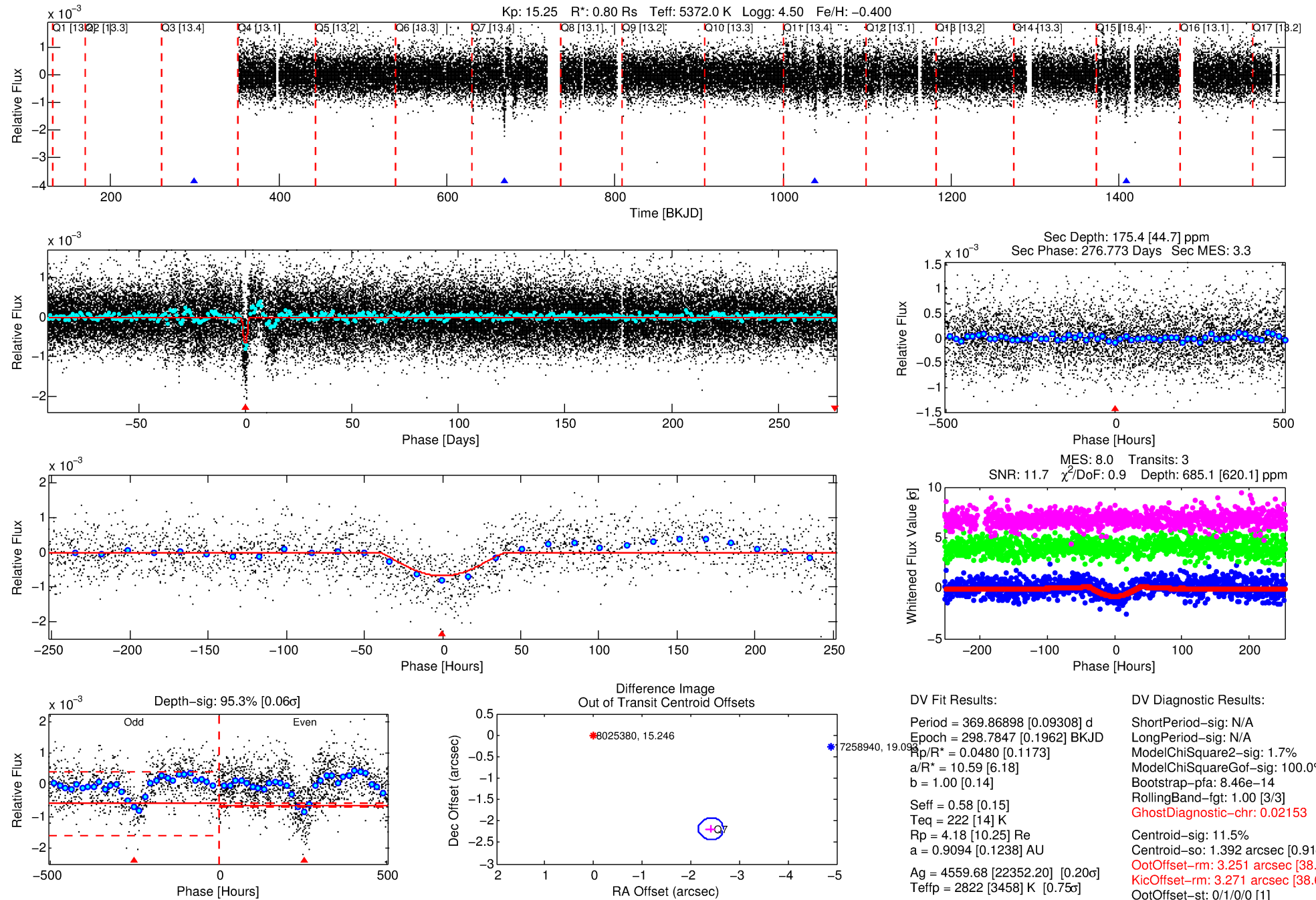
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008025380-01

No Significant Match Found

DV One-Page Summary

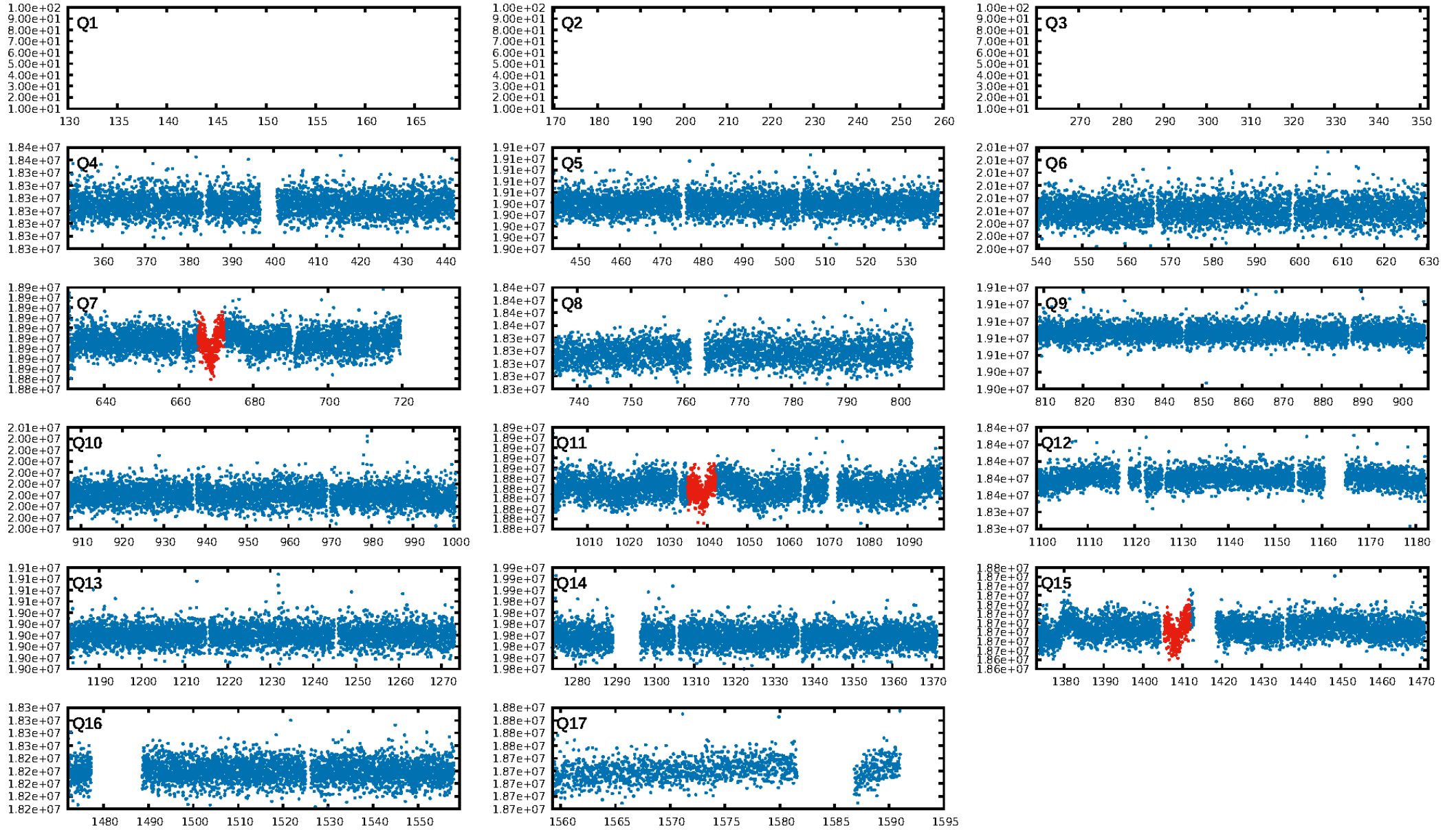
KIC: 8025380 Candidate: 1 of 1 Period: 369.869 d



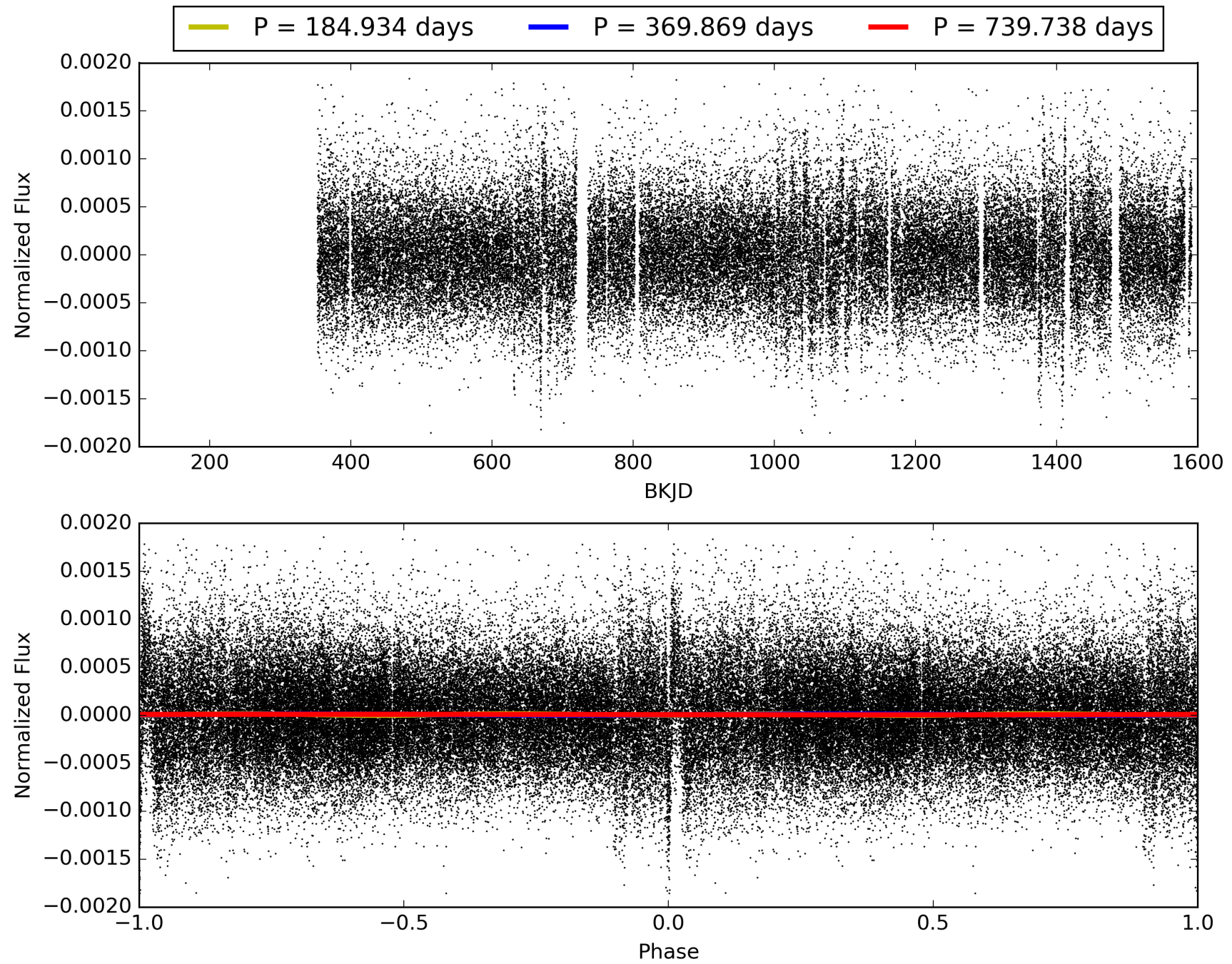
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:30:50 Z

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

TCE 008025380-01, PDC Light Curves

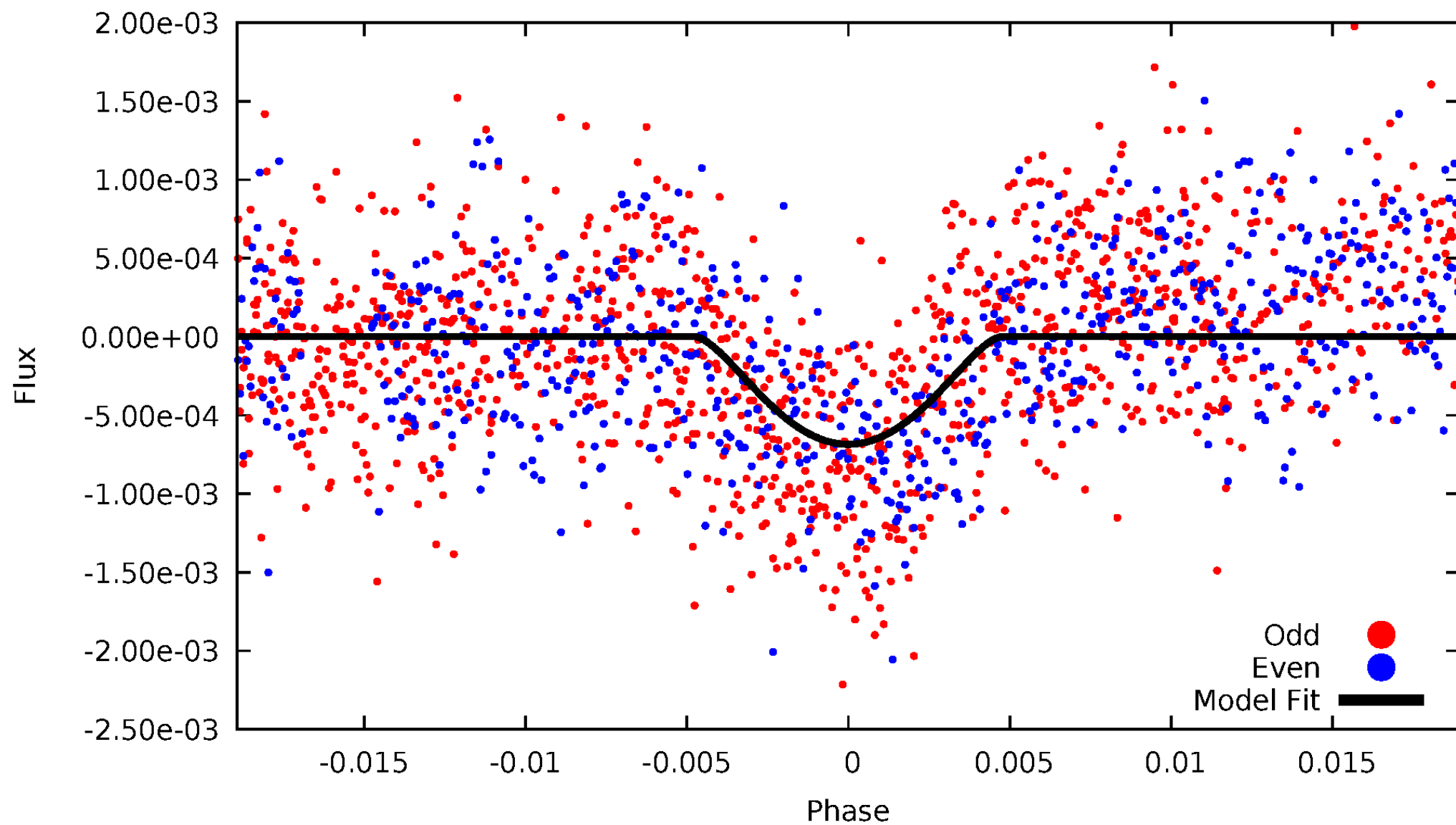


TCE 008025380-01



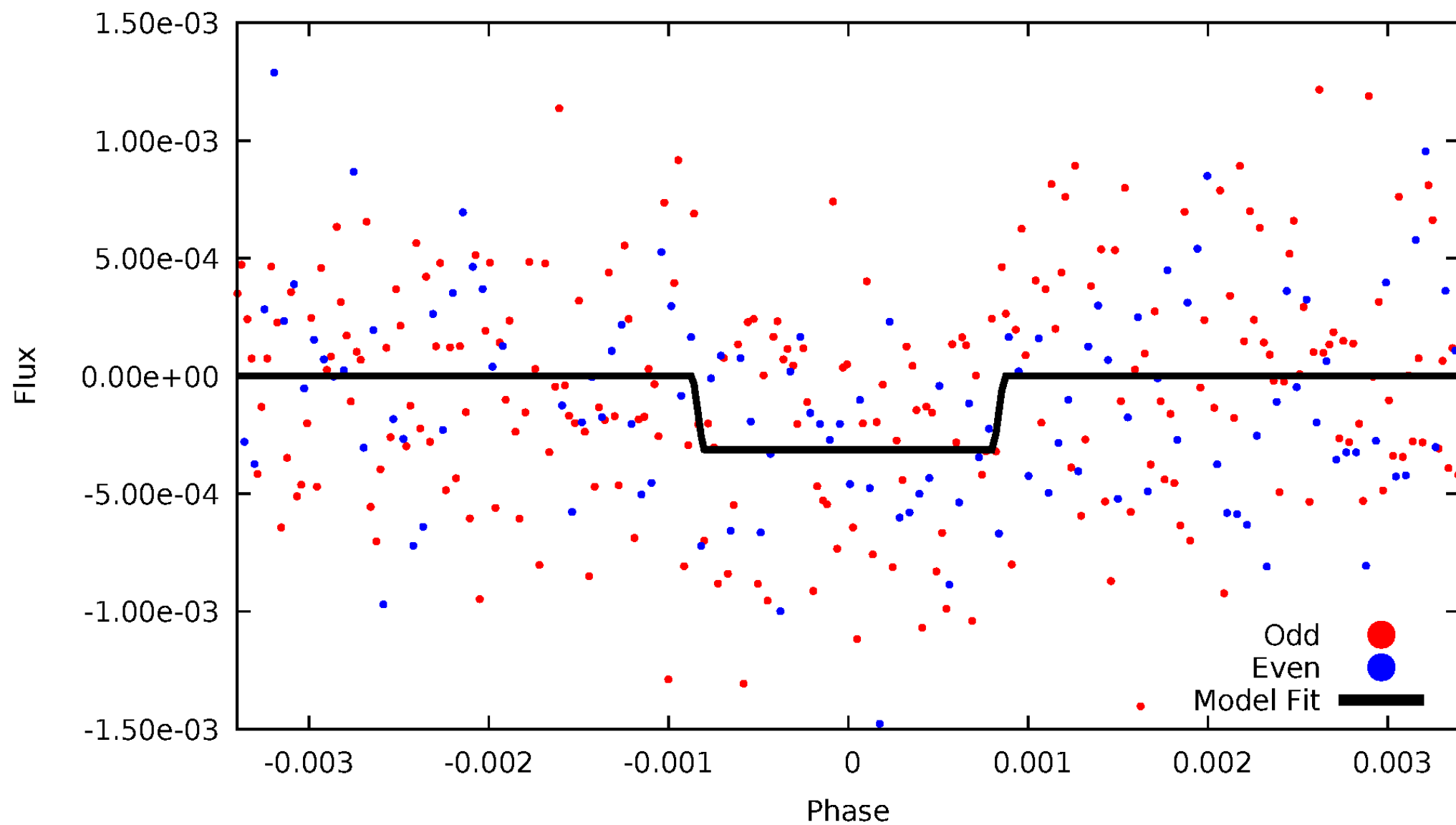
DV Odd/Even

TCE 008025380-01



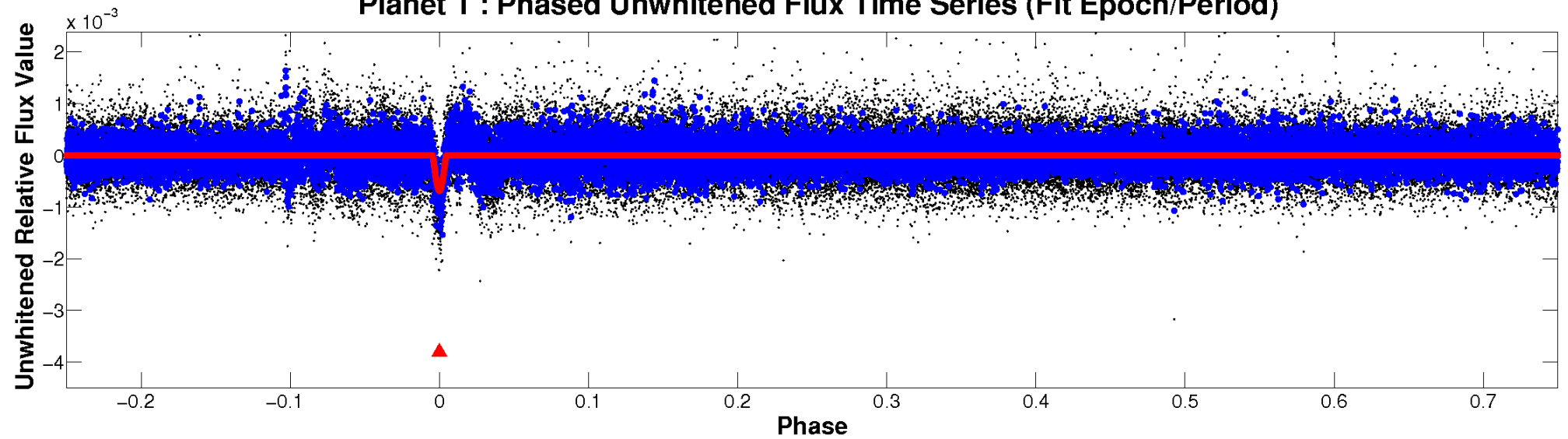
ALT Odd/Even

TCE 008025380-01

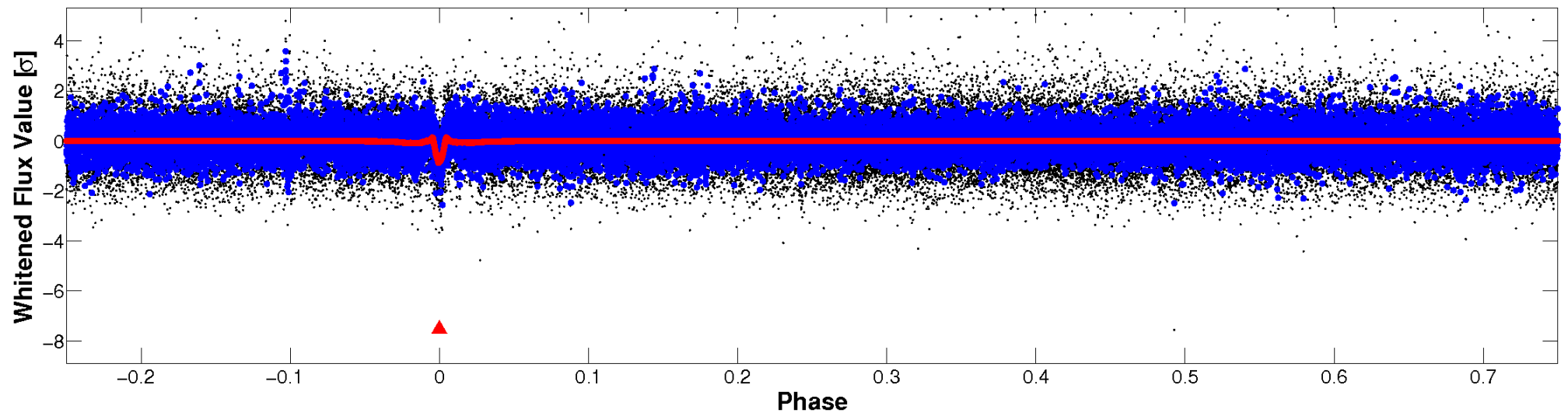


Non-Whitened Vs. Whitened Light Curve

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

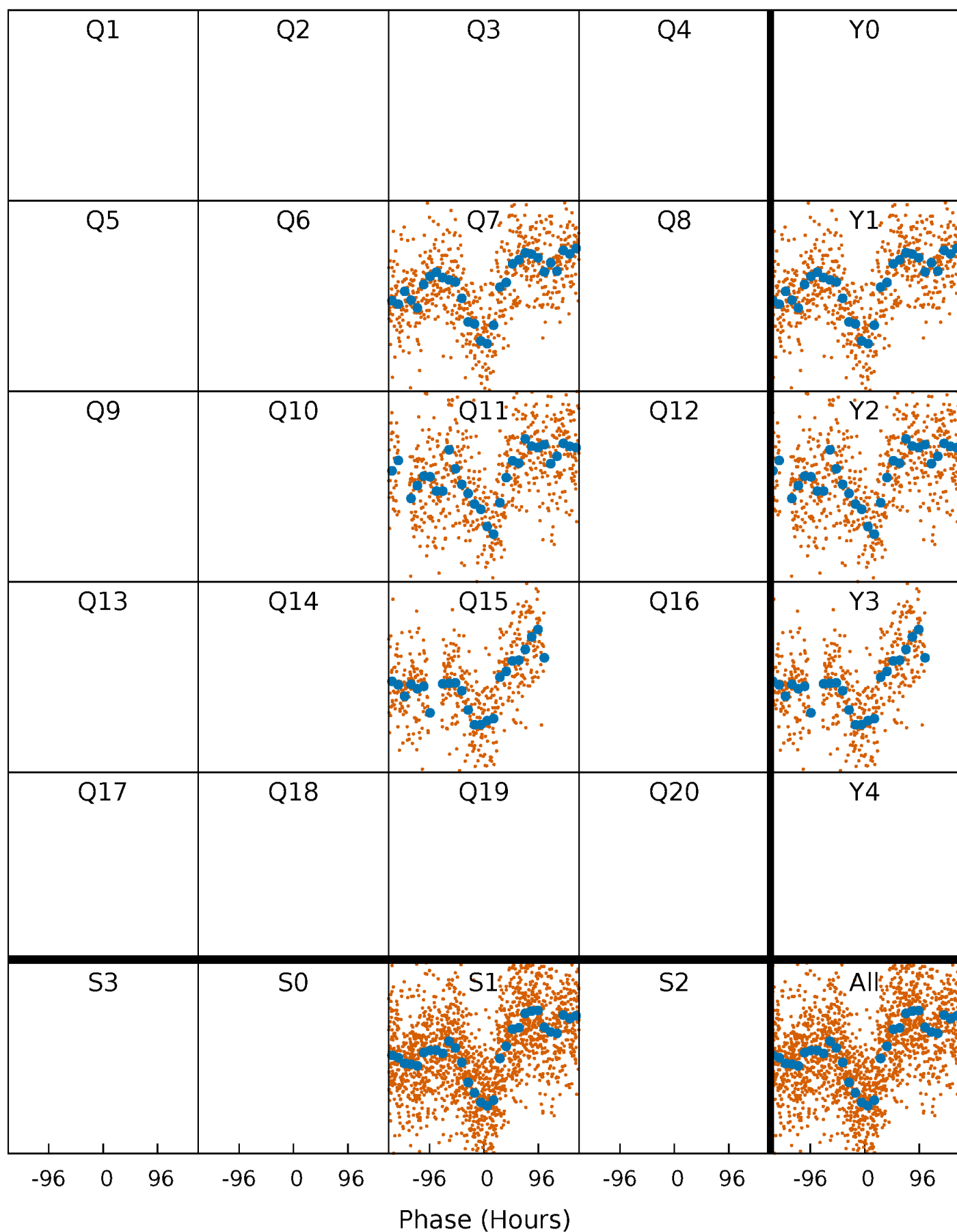


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



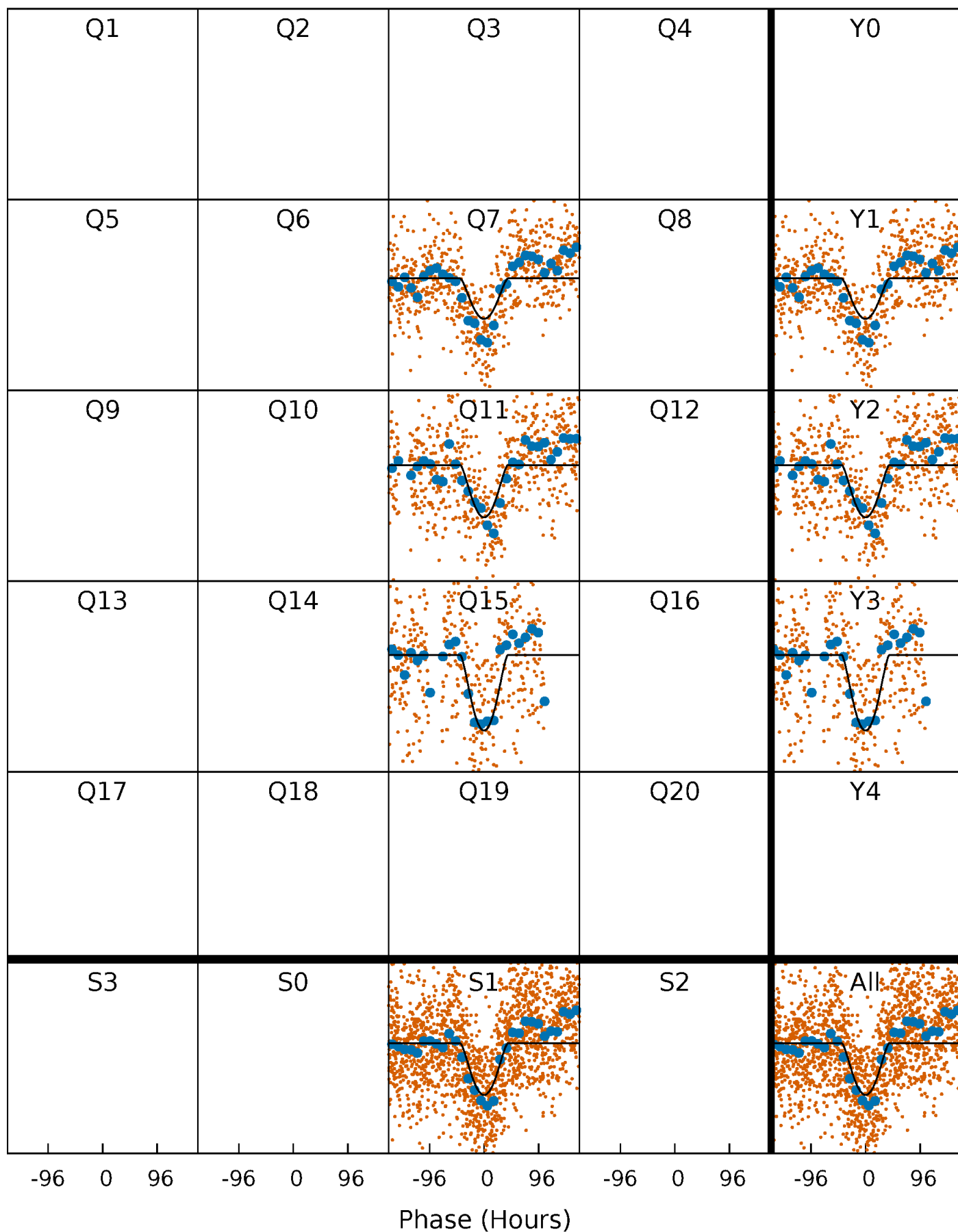
PDC Quarter-Phased Transit Curves

TCE 008025380-01 $P=369.868978$ Days $T_0=298.784723$ (BKJD)



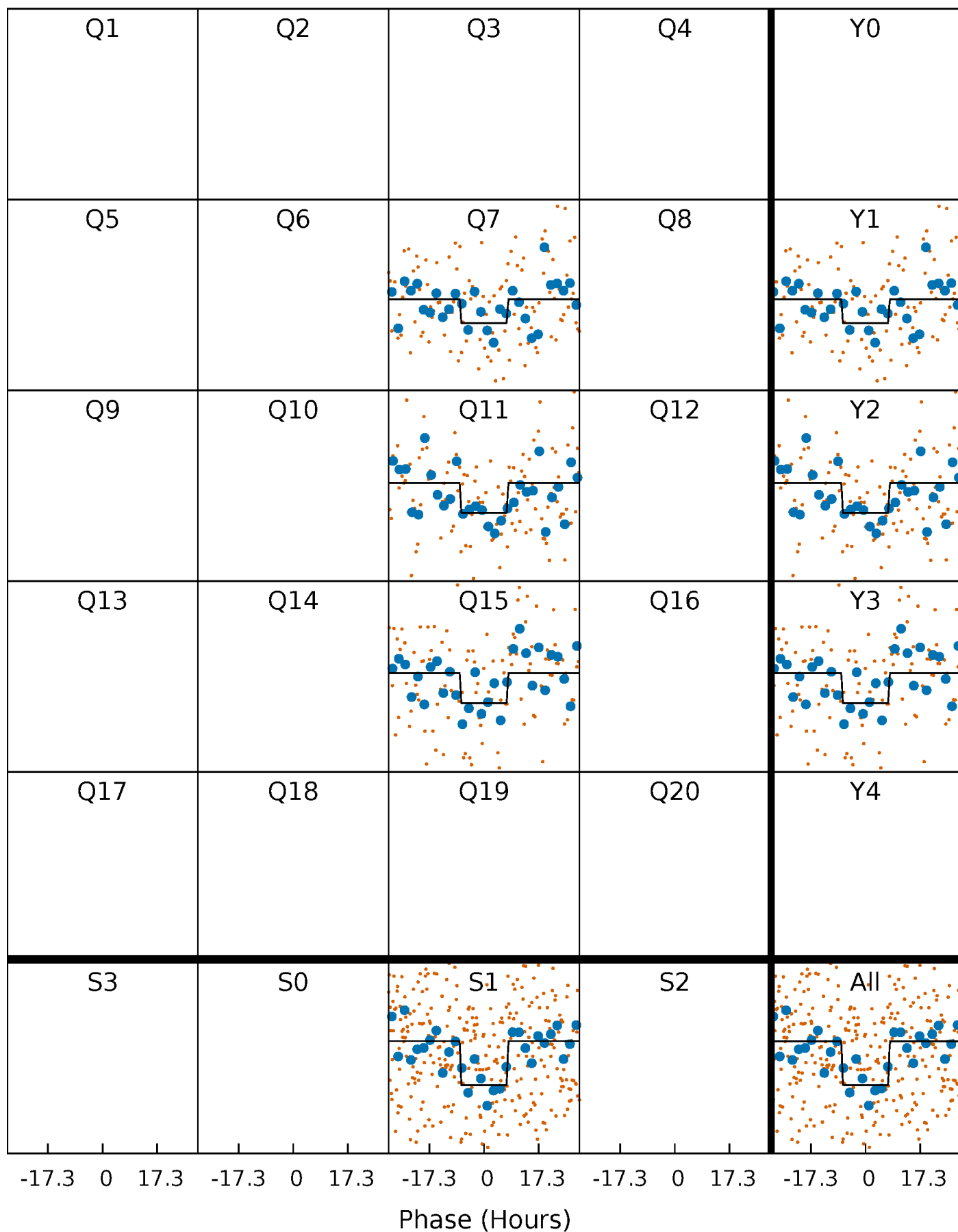
DV Quarter-Phased Transit Curves

TCE 008025380-01 $P=369.868978$ Days $T_0=298.784723$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

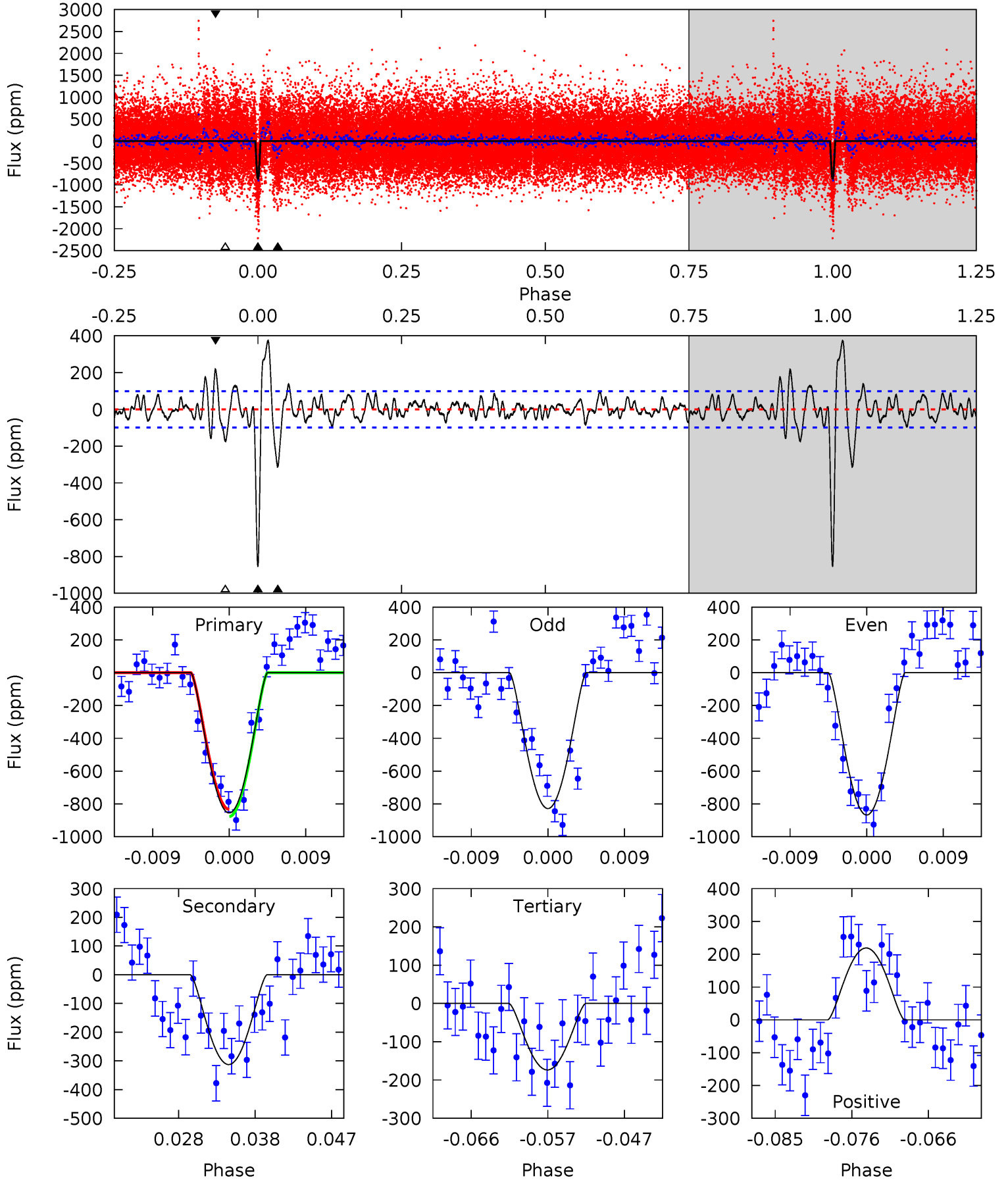
TCE 008025380-01 P=370.160751 Days $T_0=298.643500$ (BKJD)



DV Model-Shift Uniqueness Test

008025380-01, P = 369.868978 Days, E = 298.784723 Days

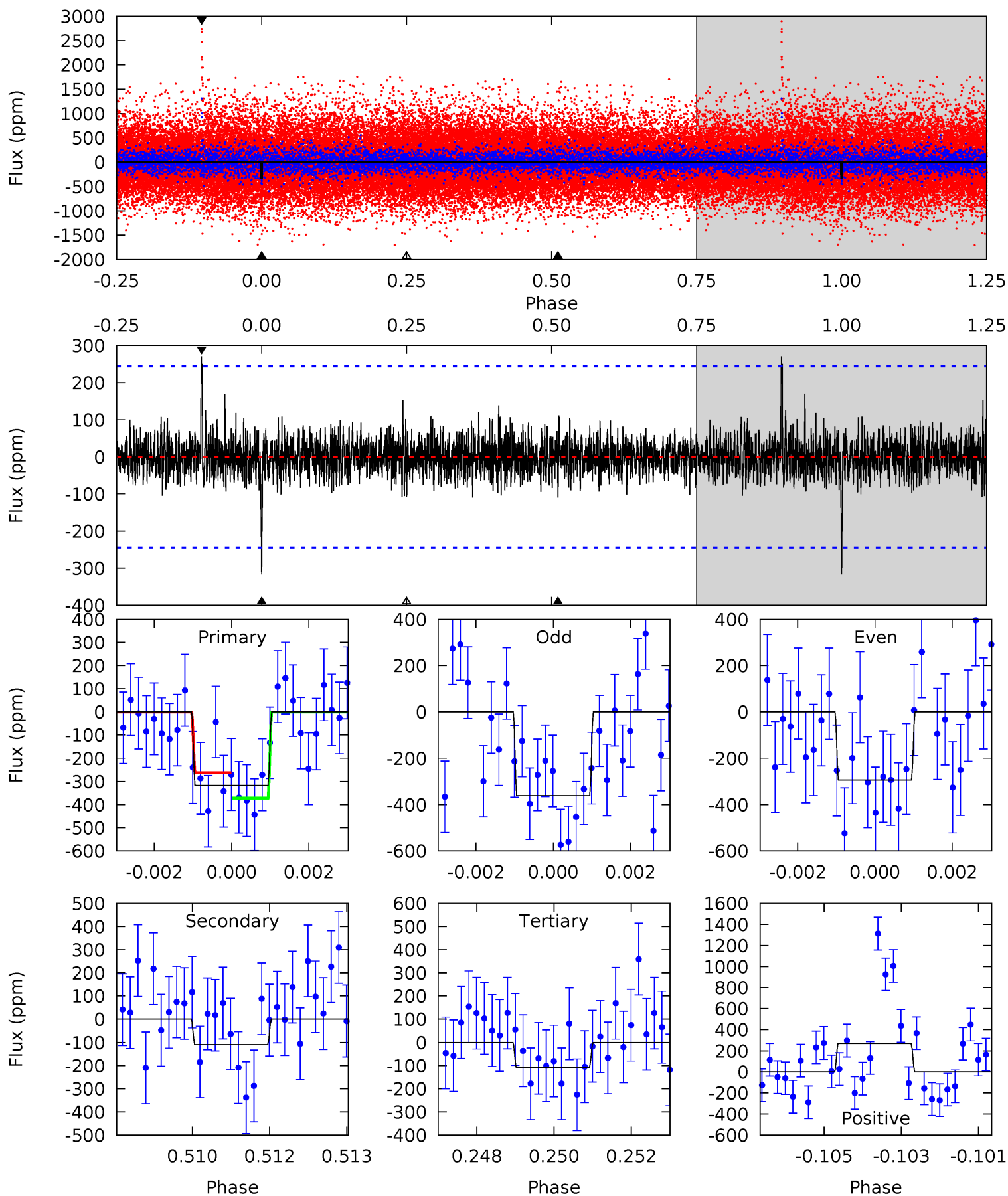
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
43.6	15.9	8.84	11.2	5.04	2.60	2.81	34.7	32.4	7.08	4.77	0.95	1.03	0.30	1.12



Alt Model-Shift Uniqueness Test

008025380-01, P = 370.160751 Days, E = 298.643500 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.95	2.40	2.38	5.95	5.36	3.14	0.81	4.57	1.01	0.02	-3.54	0.70	1.01	0.46	1.20



Stellar Parameters For KIC 008025380

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5372^{+206}_{-187}	$4.498^{+0.110}_{-0.110}$	$-0.400^{+0.350}_{-0.300}$	$0.799^{+0.128}_{-0.105}$	$0.732^{+0.107}_{-0.054}$	$2.022^{+0.980}_{-0.662}$
	+4%/-3%	+2%/-2%	+87%/-75%	+16%/-13%	+15%/-7%	+48%/-33%
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 008025380-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-313 ± 20	$8.82^{+7.90}_{-6.03}$	311^{+17}_{-16}	2925^{+1285}_{-446}	1861^{+16047}_{-1354}
Alt.	-109 ± 46	$7.63^{+7.39}_{-5.21}$	311^{+17}_{-16}	2627^{+998}_{-419}	829^{+7402}_{-644}

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 $A_{\text{obs}} \gg 1.0$

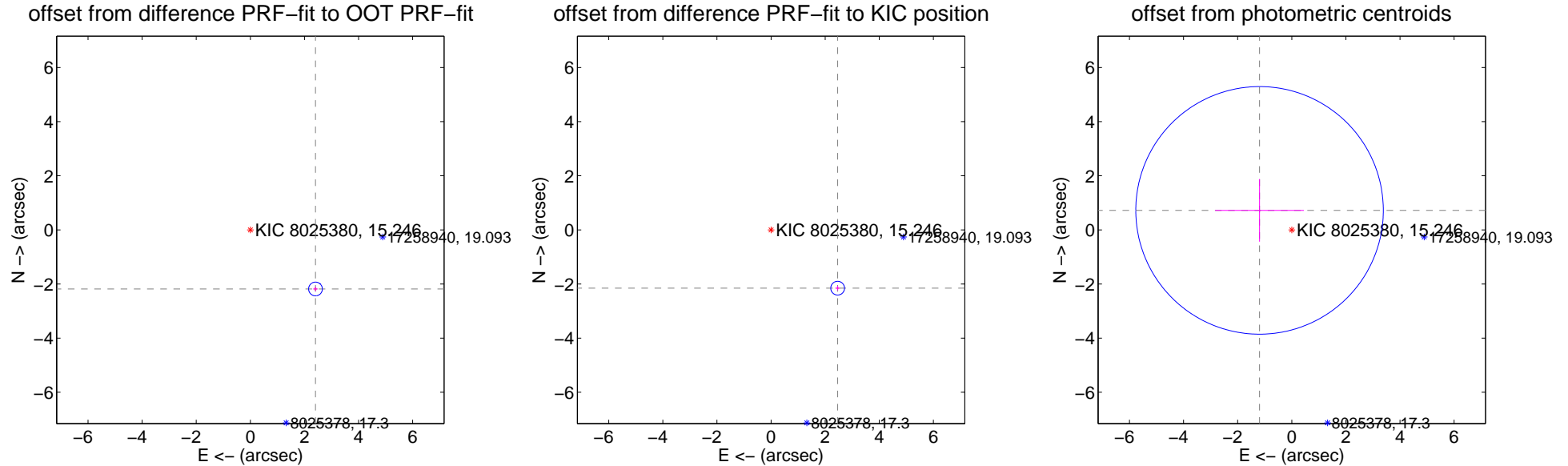
DV Centroid Data

Supplemental centroid analysis for 008025380-01. Kepler magnitude: 15.25. Transit SNR 11.73

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	3.251 ± 0.085	38.40	-2.408 ± 0.085	-2.184 ± 0.084
PRF-fit source offset from KIC position	3.271 ± 0.085	38.63	-2.461 ± 0.085	-2.154 ± 0.084
photometric centroid source offset	1.39 ± 1.53	0.91	1.19 ± 1.64	0.72 ± 1.16

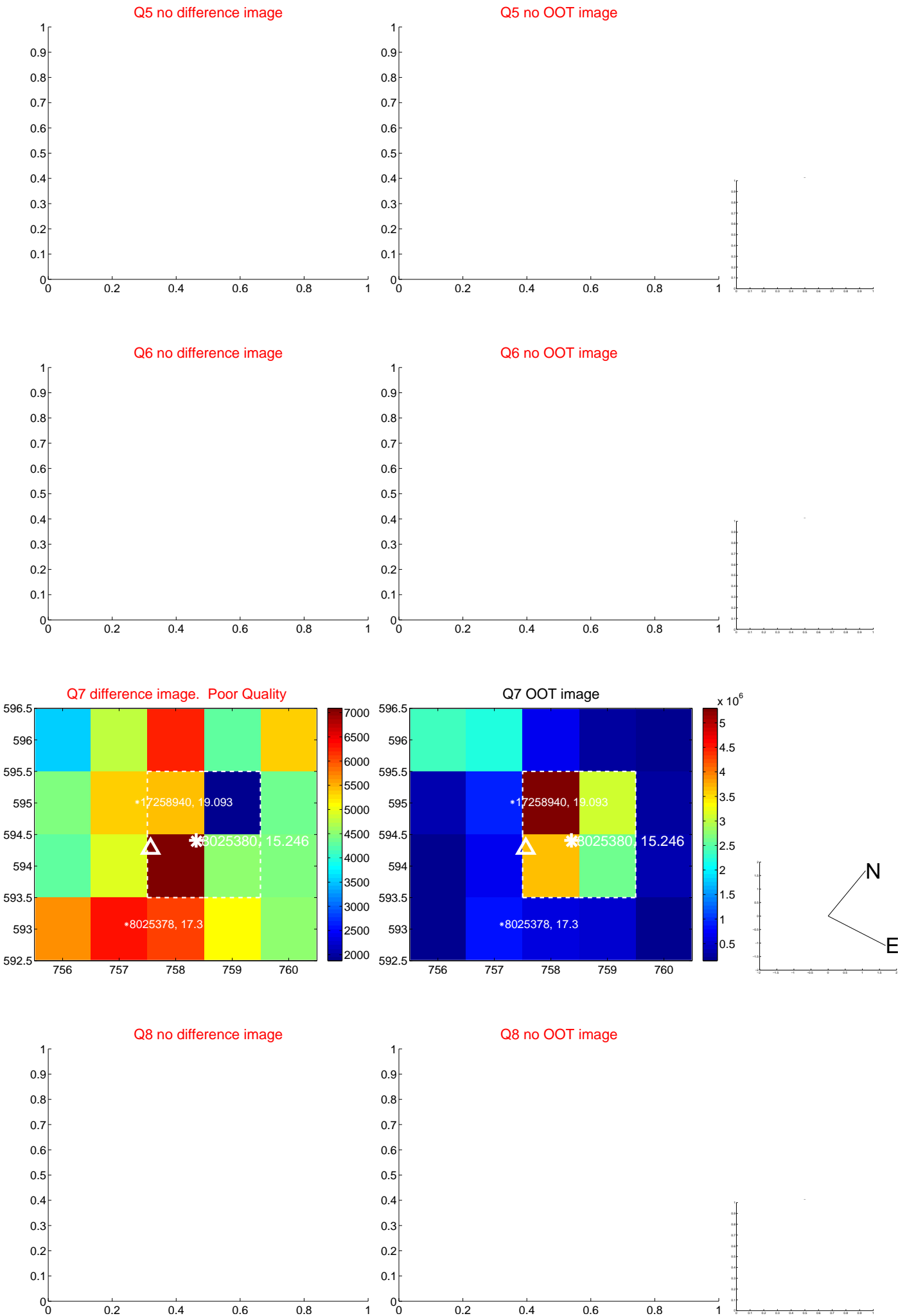


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



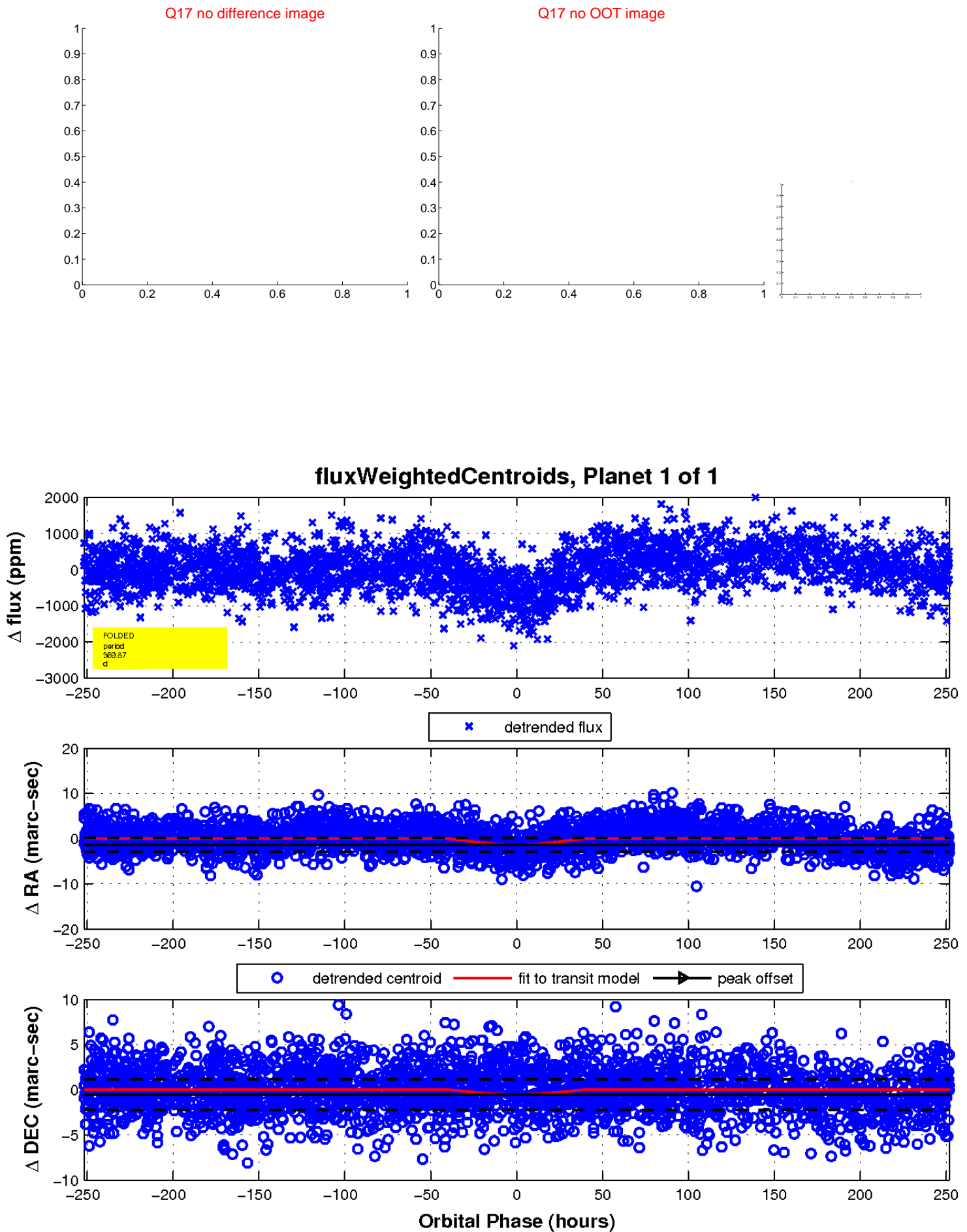
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

