

KIC 008885226

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})
008885226-01	OBS	No	376.268517	139.476105	431.8	11.595	7.8	7.1	1.19	5825	2.68	1.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008885226-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL_SKYE—MOD_NONUNIQ_ALT—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.

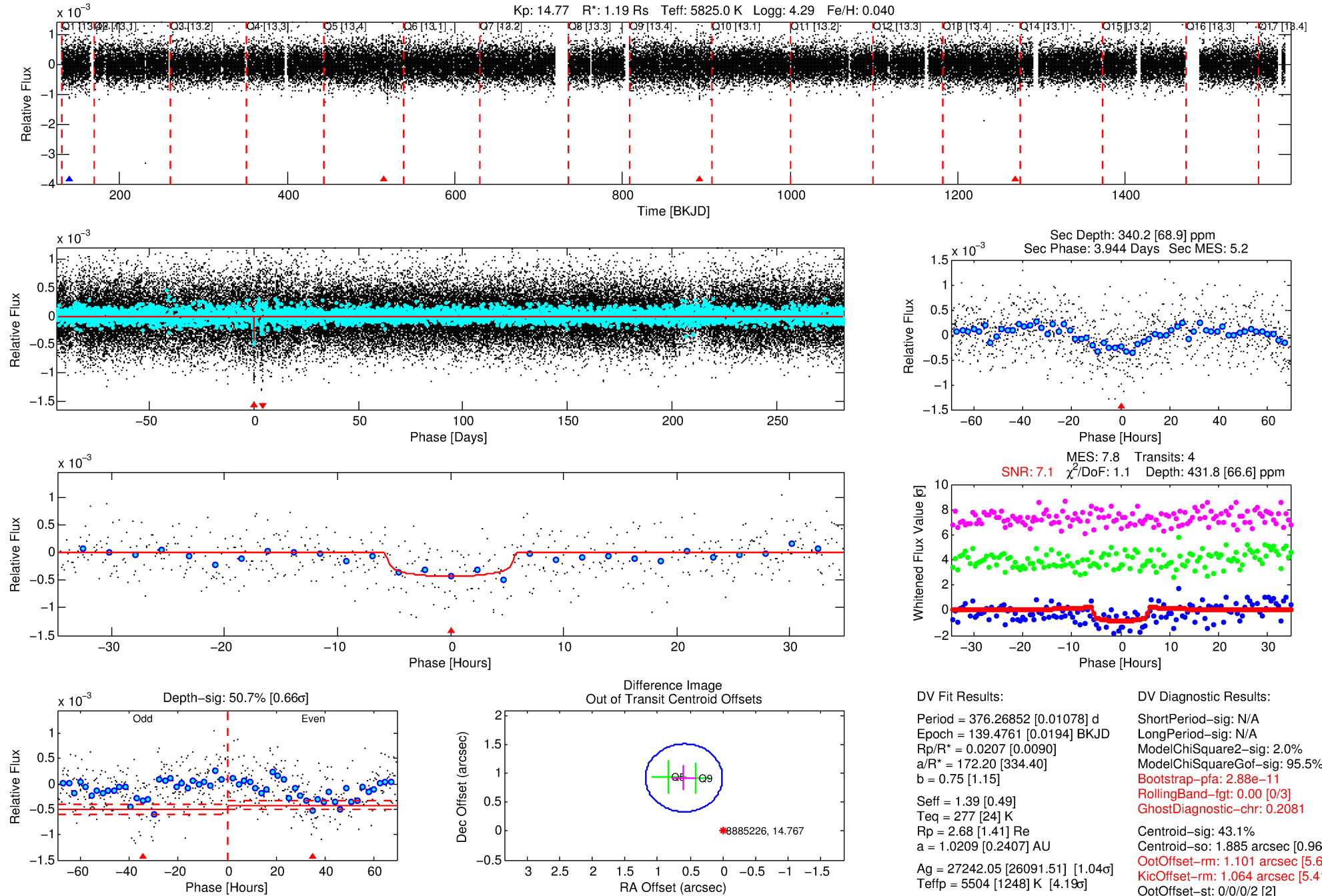
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008885226-01

No Significant Match Found

DV One-Page Summary

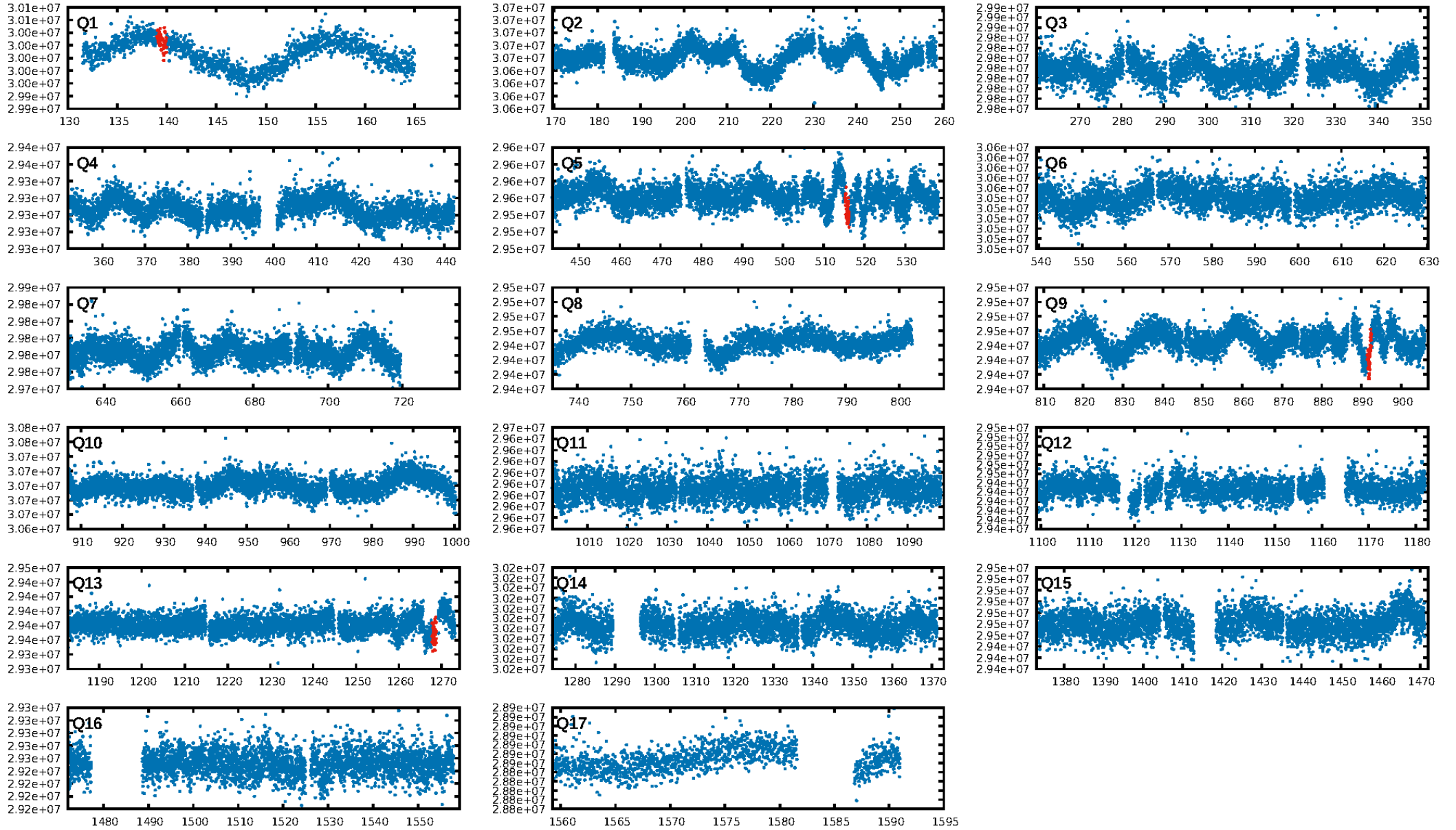
KIC: 8885226 Candidate: 1 of 1 Period: 376.269 d



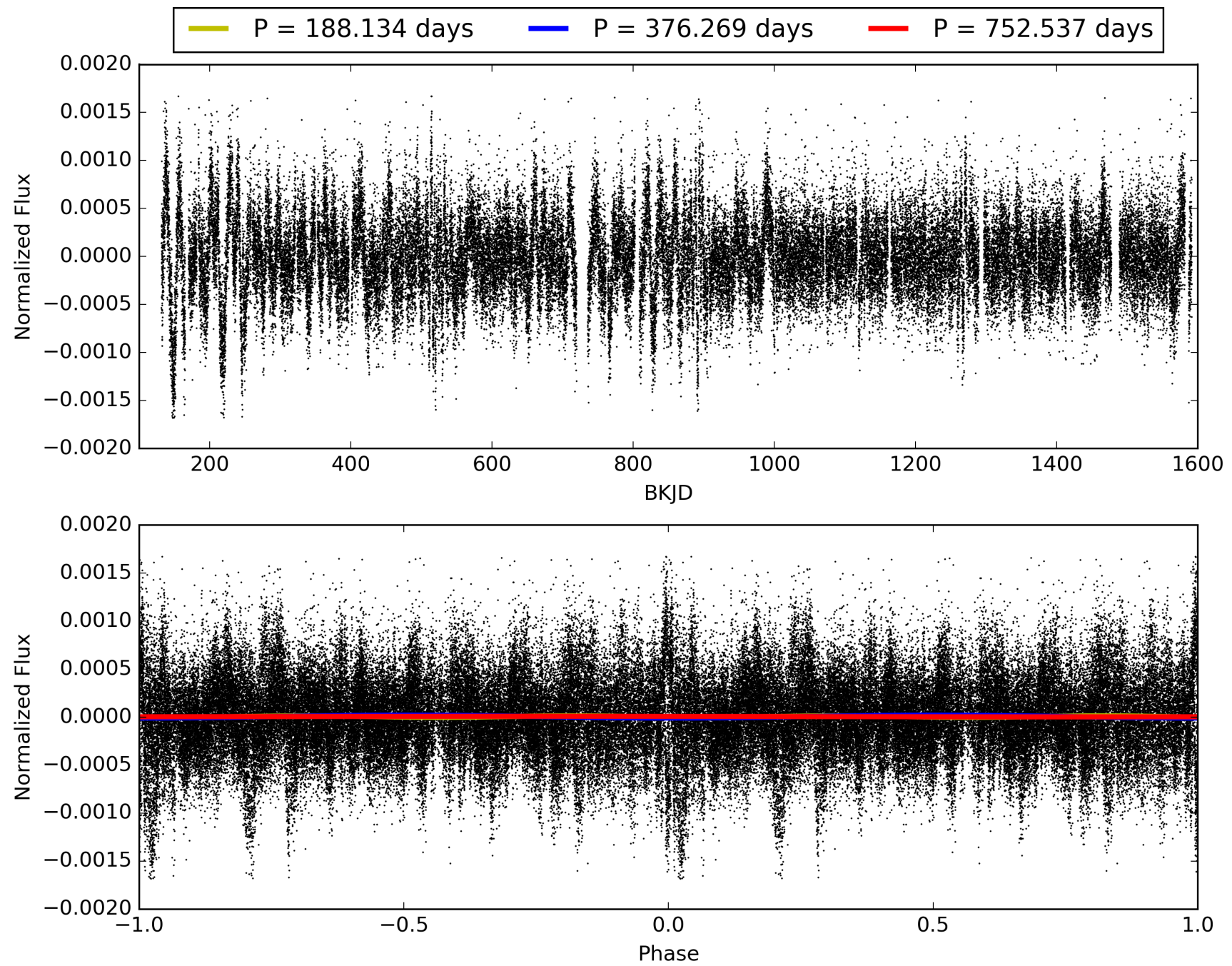
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:15:43 Z

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

TCE 00885226-01, PDC Light Curves

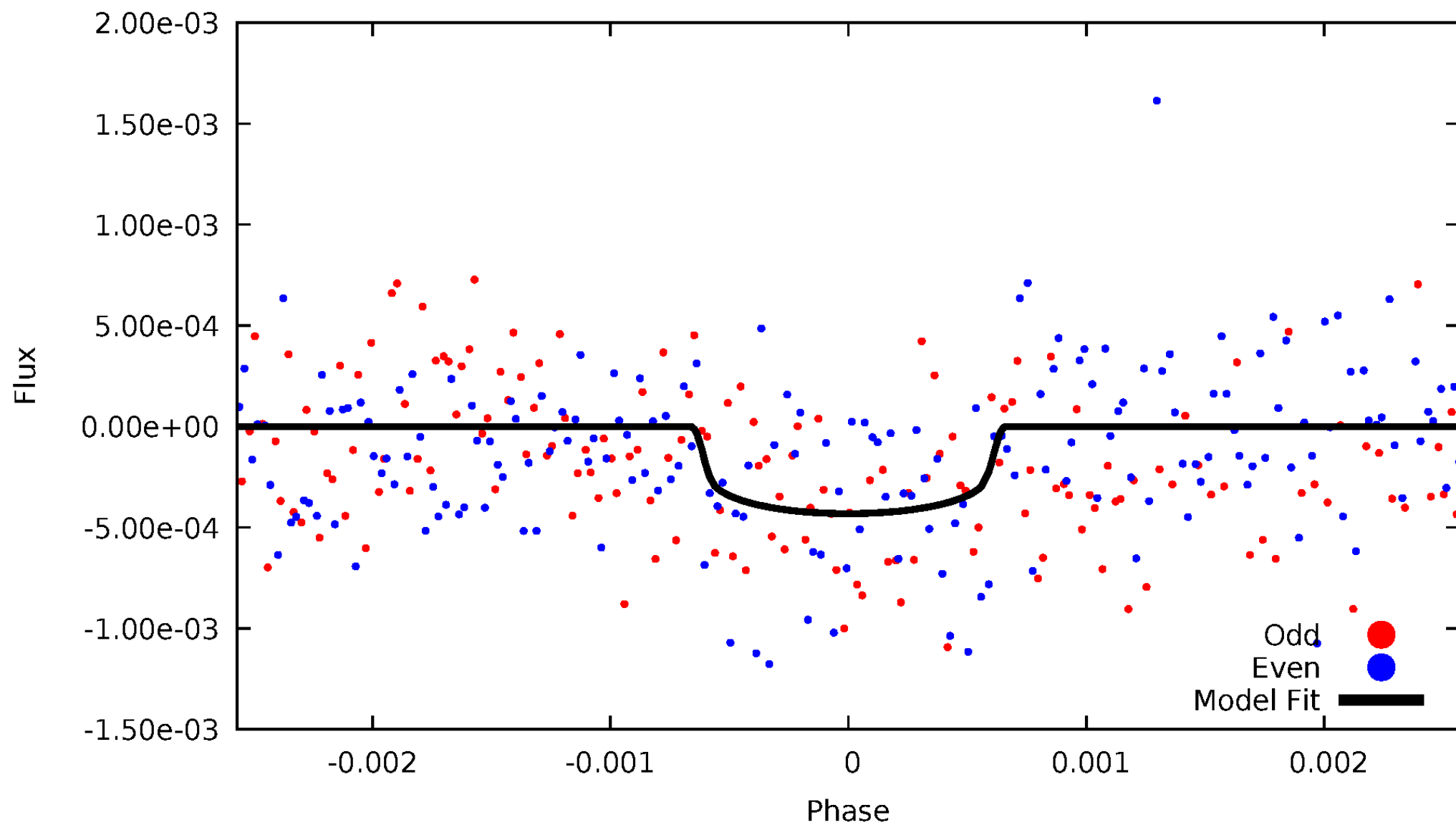


TCE 008885226-01



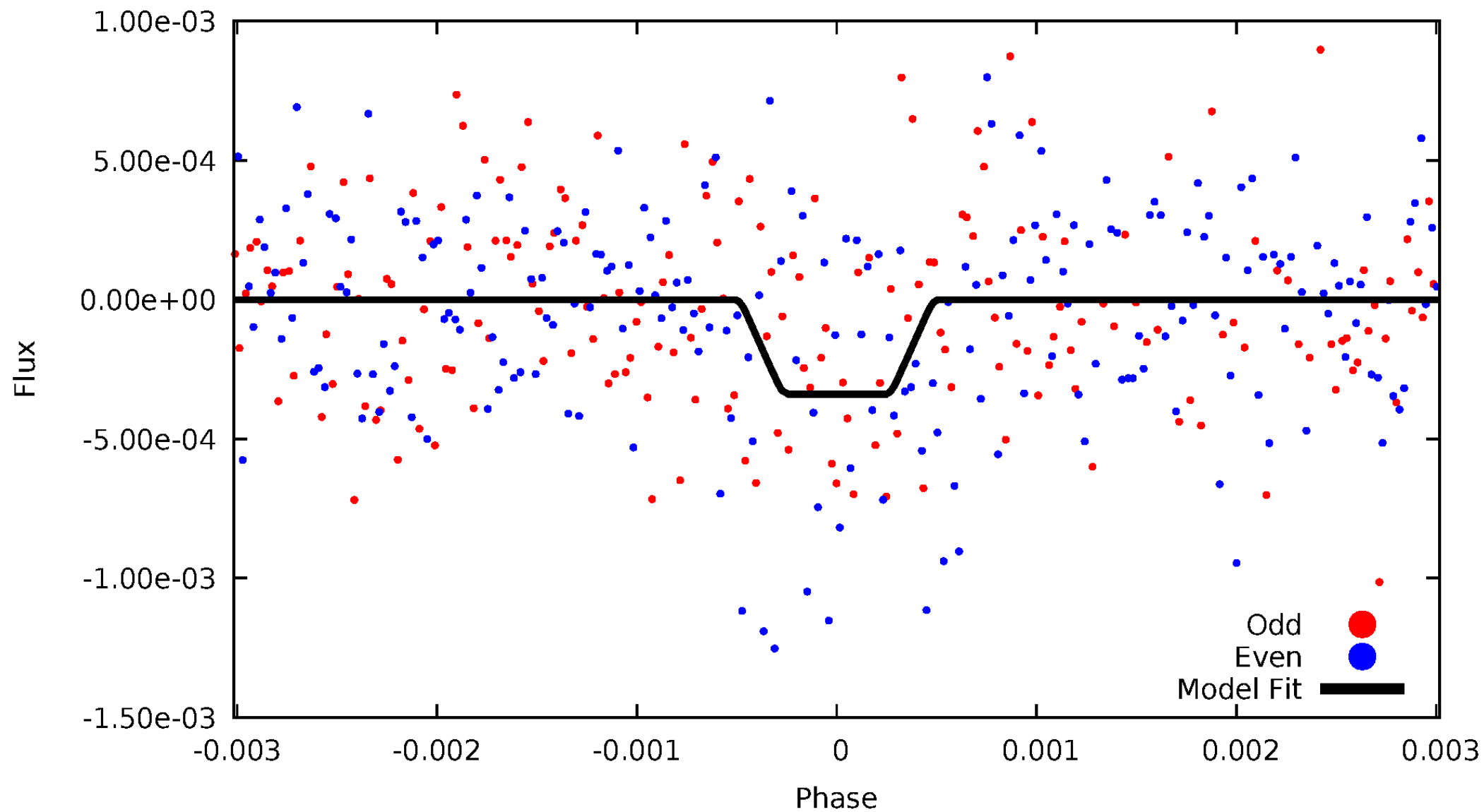
DV Odd/Even

TCE 008885226-01

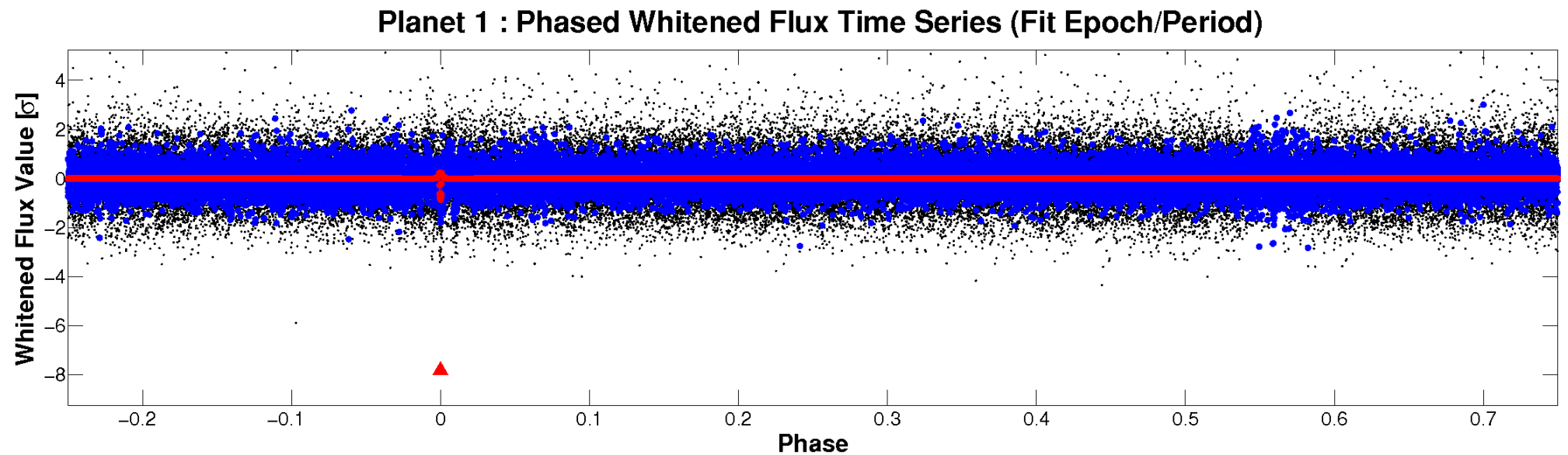
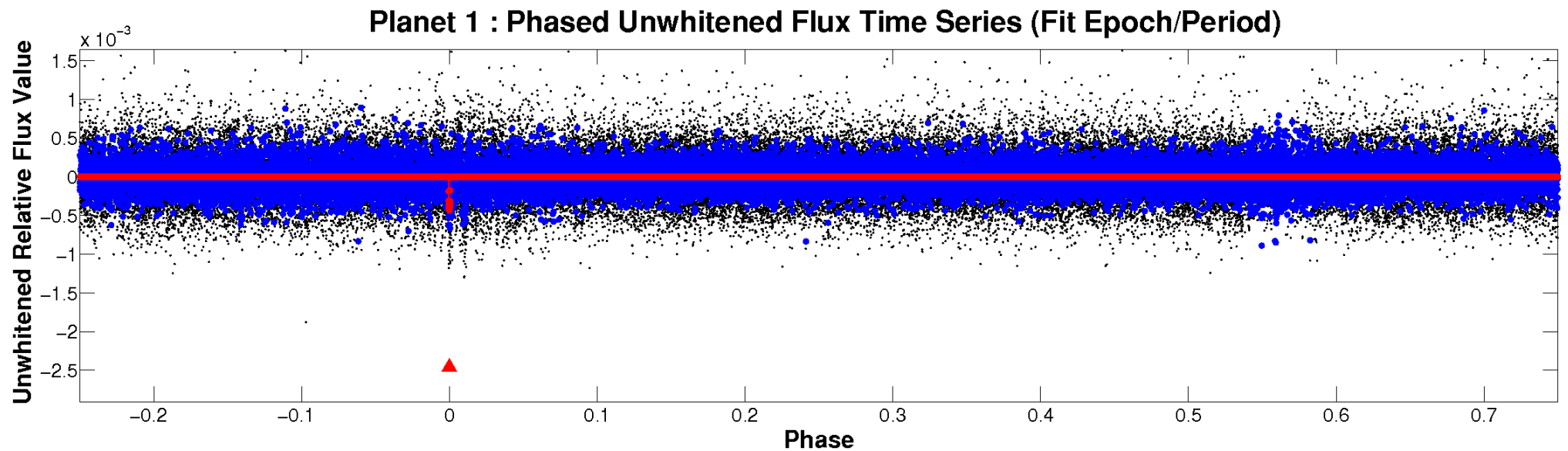


ALT Odd/Even

TCE 008885226-01

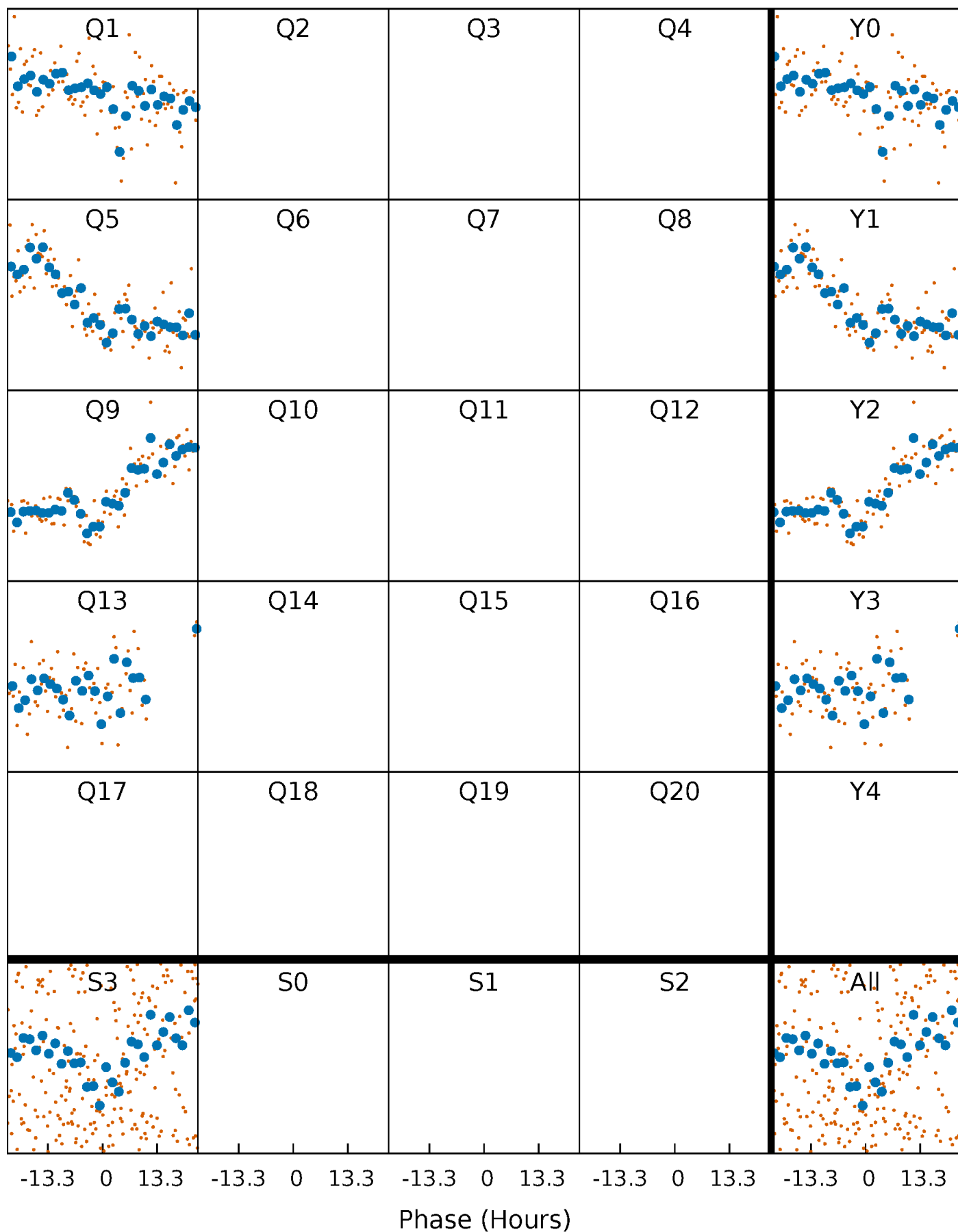


Non-Whitened Vs. Whitened Light Curve



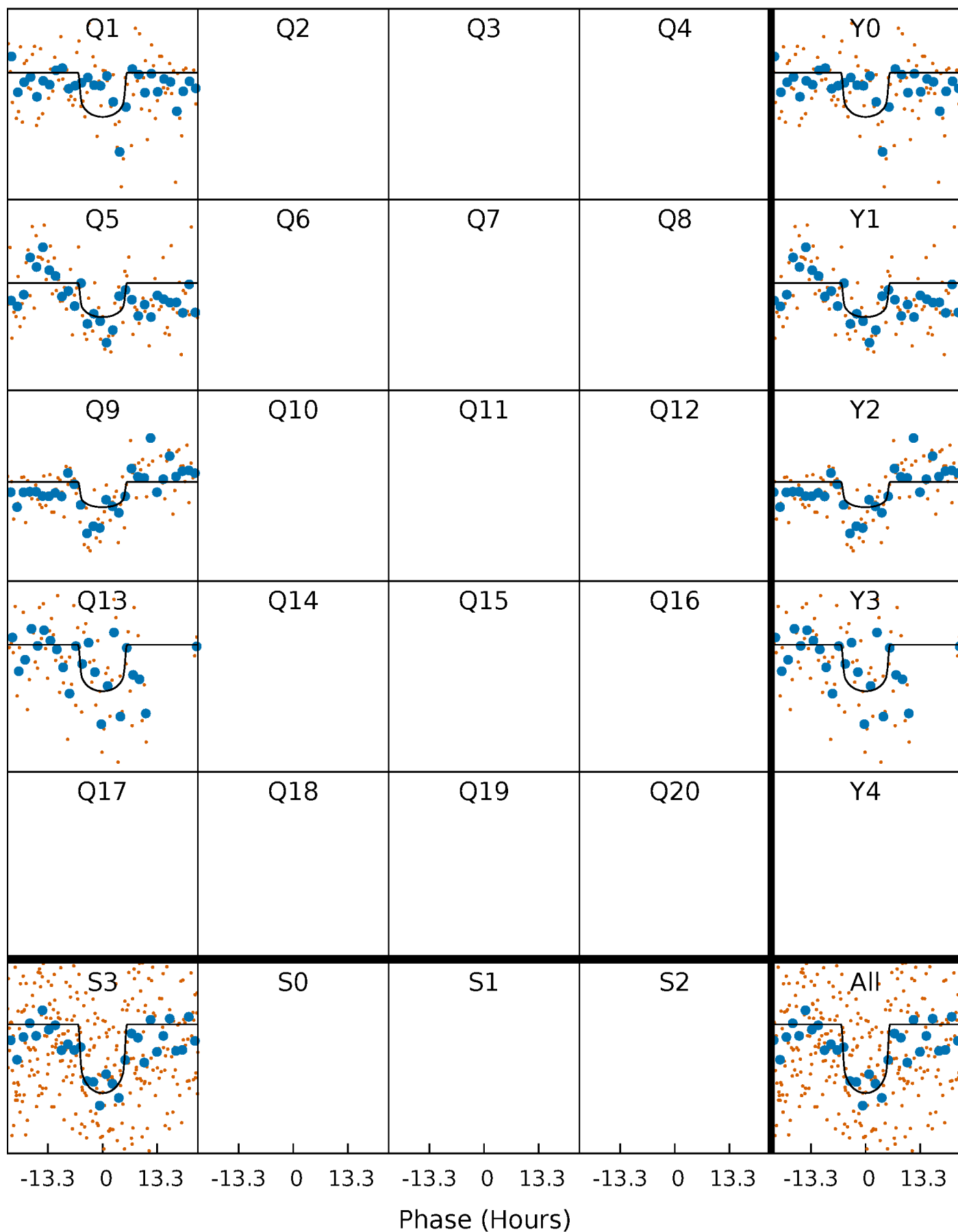
PDC Quarter-Phased Transit Curves

TCE 008885226-01 P=376.268517 Days $T_0=139.476105$ (BKJD)



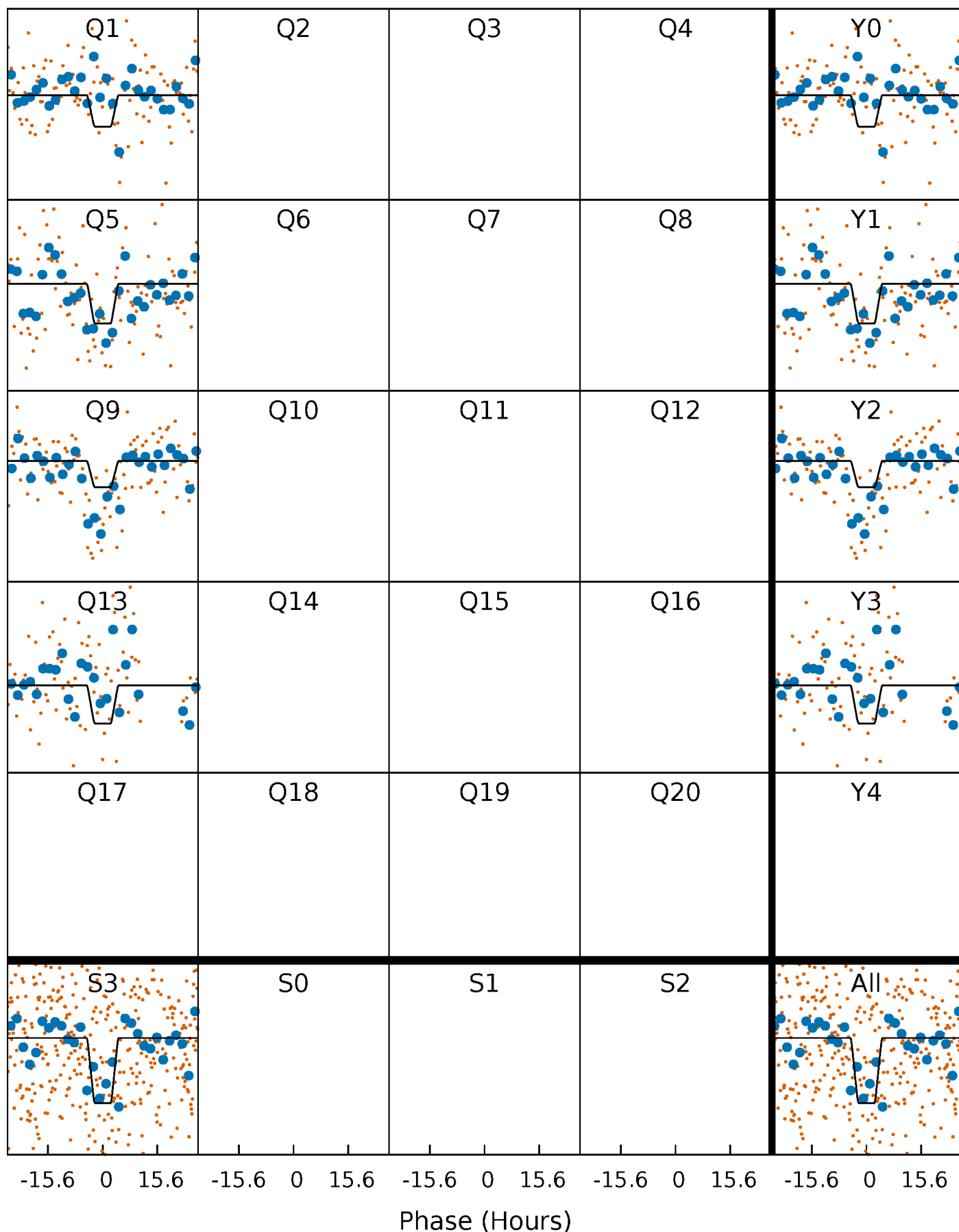
DV Quarter-Phased Transit Curves

TCE 008885226-01 $P=376.268517$ Days $T_0=139.476105$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

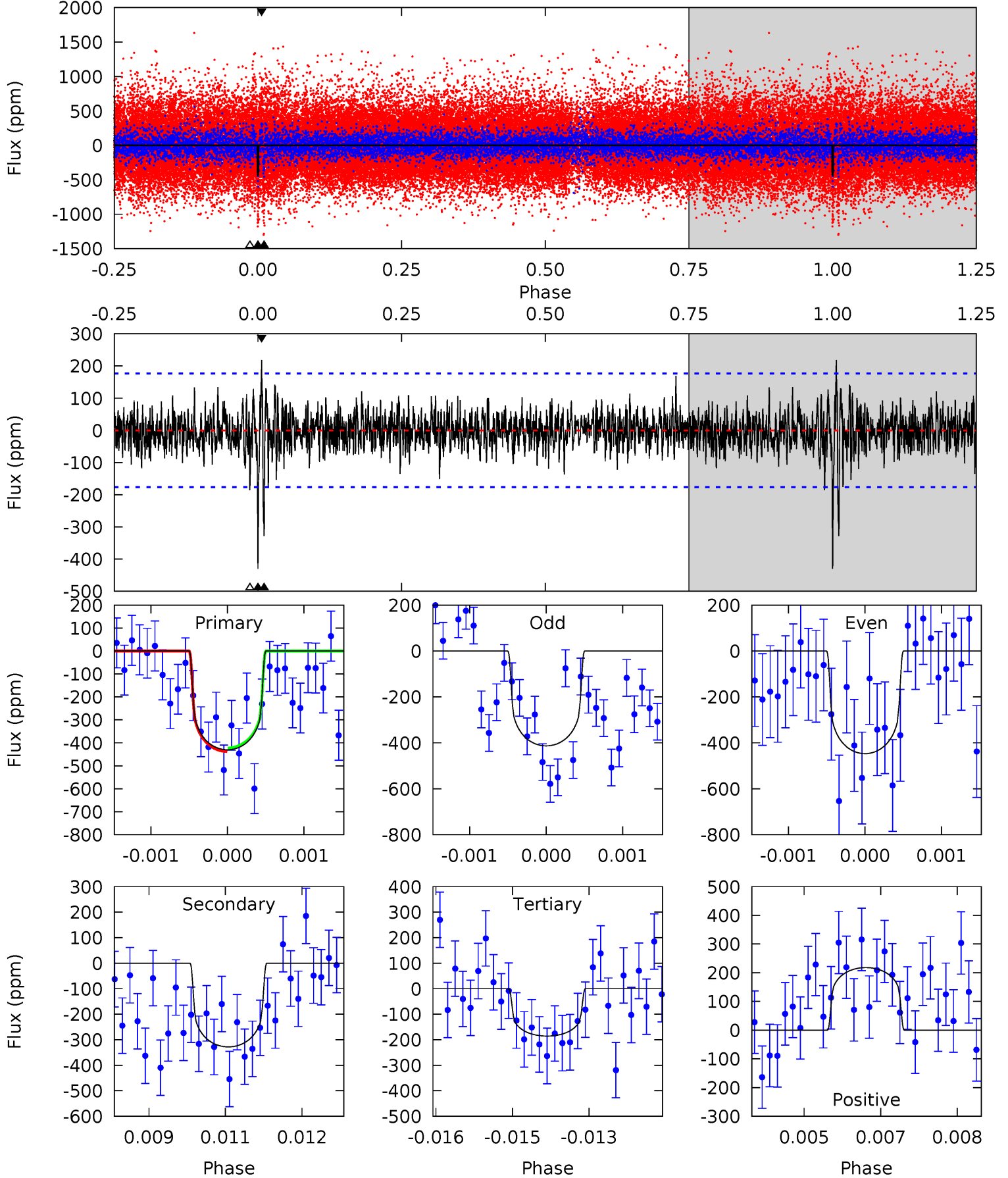
TCE 008885226-01 P=376.270385 Days $T_0=139.464131$ (BKJD)



DV Model-Shift Uniqueness Test

008885226-01, P = 376.268517 Days, E = 139.476105 Days

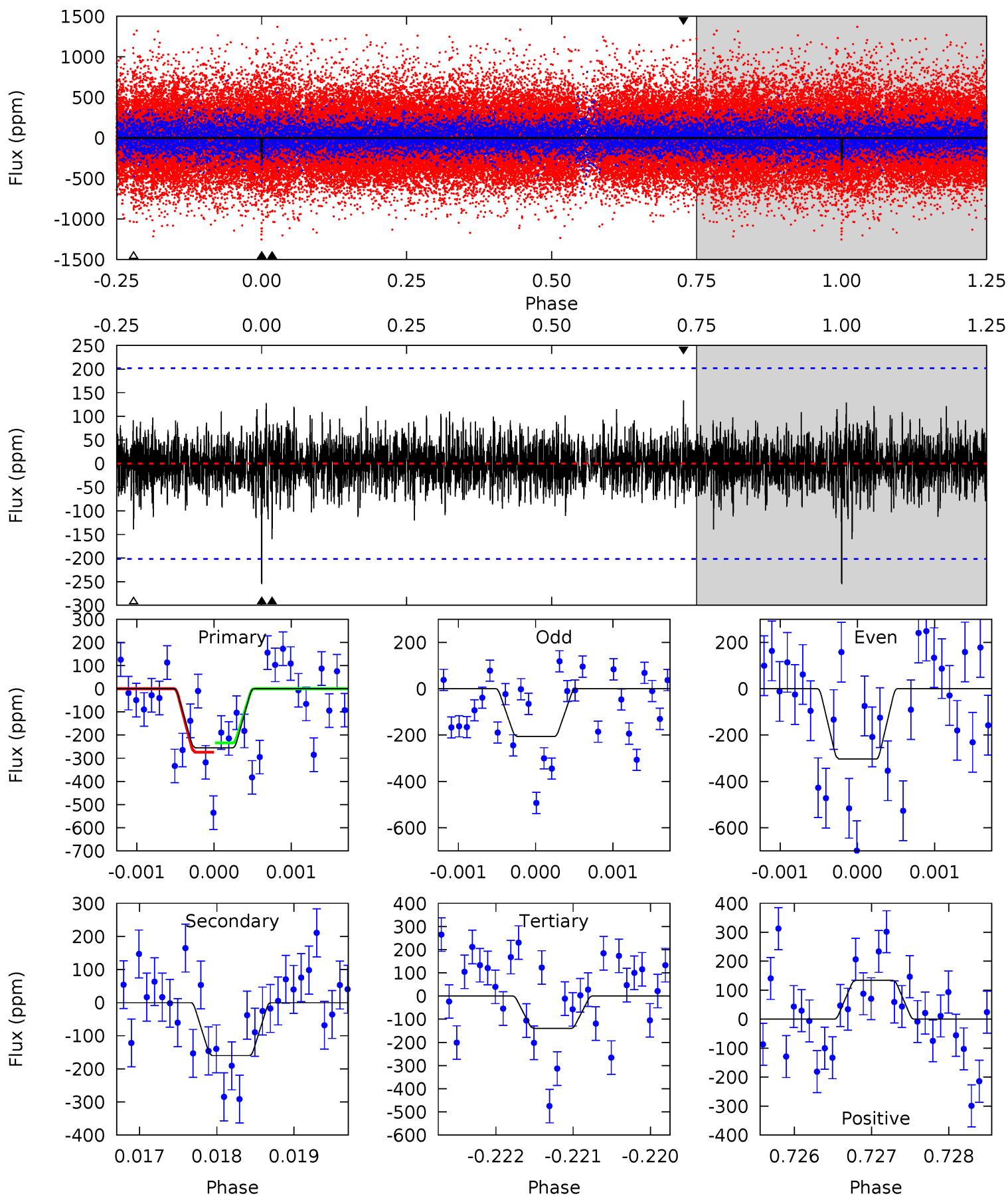
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.2	10.0	5.68	6.67	5.40	3.21	1.35	7.48	6.49	4.35	3.36	0.52	1.04	0.34	0.24



Alt Model-Shift Uniqueness Test

008885226-01, P = 376.270385 Days, E = 139.464131 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.88	4.31	3.77	3.62	5.45	3.29	0.97	3.11	3.27	0.55	0.70	1.33	1.25	0.34	0.55



Stellar Parameters For KIC 008885226

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5825^{+158}_{-176}	$4.290^{+0.175}_{-0.175}$	$0.040^{+0.250}_{-0.300}$	$1.187^{+0.345}_{-0.259}$	$1.001^{+0.140}_{-0.117}$	$0.843^{+0.774}_{-0.406}$
	+3%/-3%	+4%/-4%	+625%/-750%	+29%/-22%	+14%/-12%	+92%/-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 008885226-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-328 ± 33	$2.69^{+1.25}_{-1.22}$	386^{+29}_{-25}	5440^{+2005}_{-775}	26198^{+59244}_{-13969}
Alt.	-160 ± 37	$2.48^{+1.25}_{-1.14}$	388^{+30}_{-27}	4863^{+1557}_{-747}	15369^{+37788}_{-9219}

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 $A_{obs} \gg 1.0$

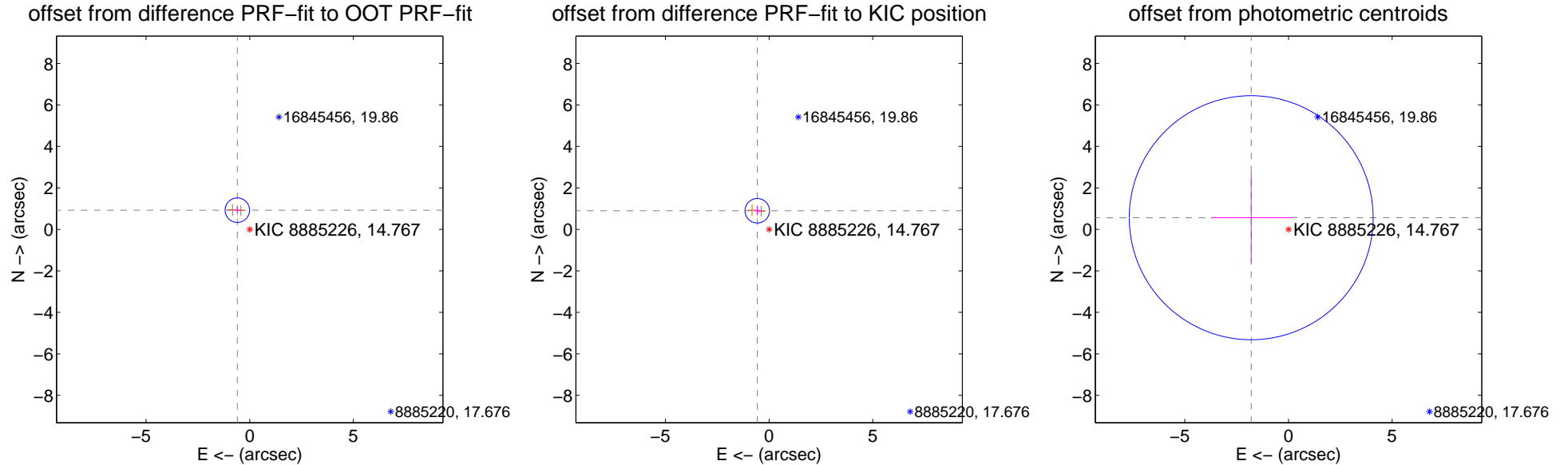
DV Centroid Data

Supplemental centroid analysis for 008885226-01. Kepler magnitude: 14.77. Transit SNR 7.10

There are 0 quarters with good PRF difference image offsets

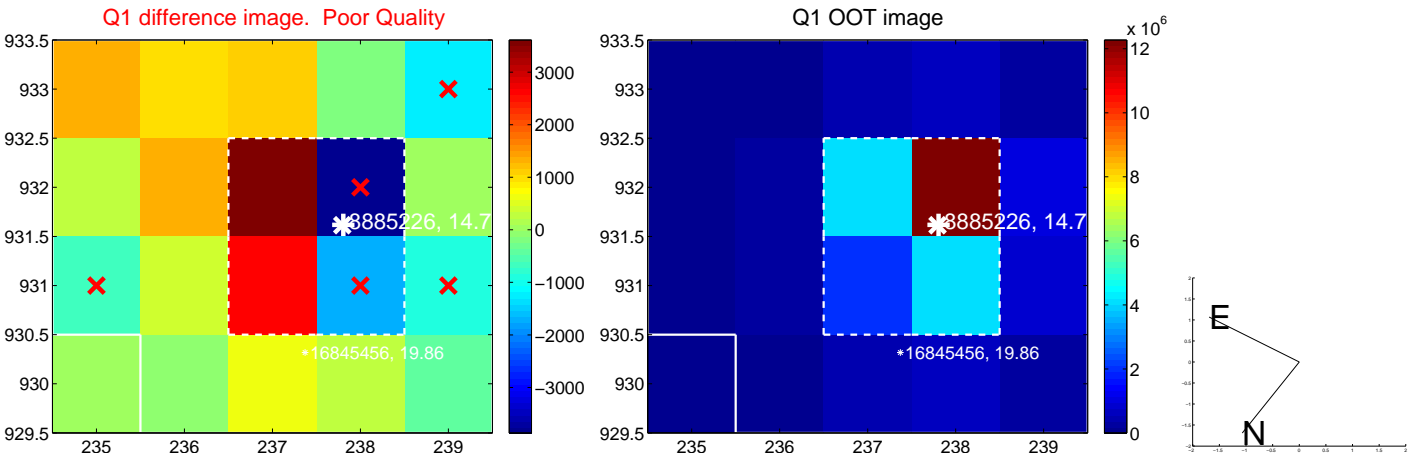
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.101 ± 0.197	5.60	0.597 ± 0.182	0.925 ± 0.203
PRF-fit source offset from KIC position	1.064 ± 0.197	5.41	0.572 ± 0.182	0.898 ± 0.203
photometric centroid source offset	1.88 ± 1.96	0.96	1.80 ± 1.94	0.56 ± 2.17

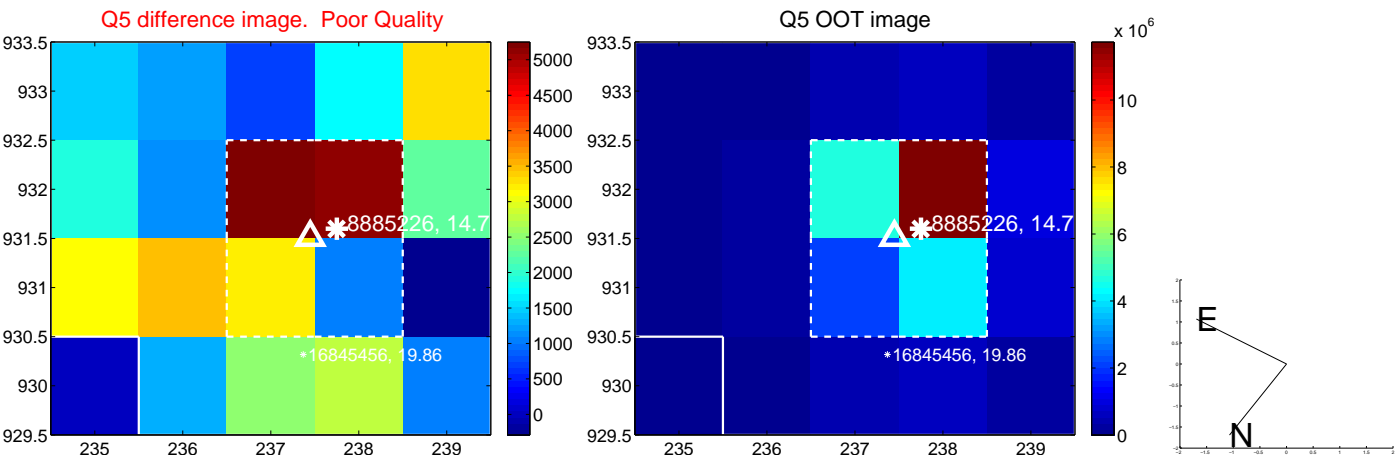


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

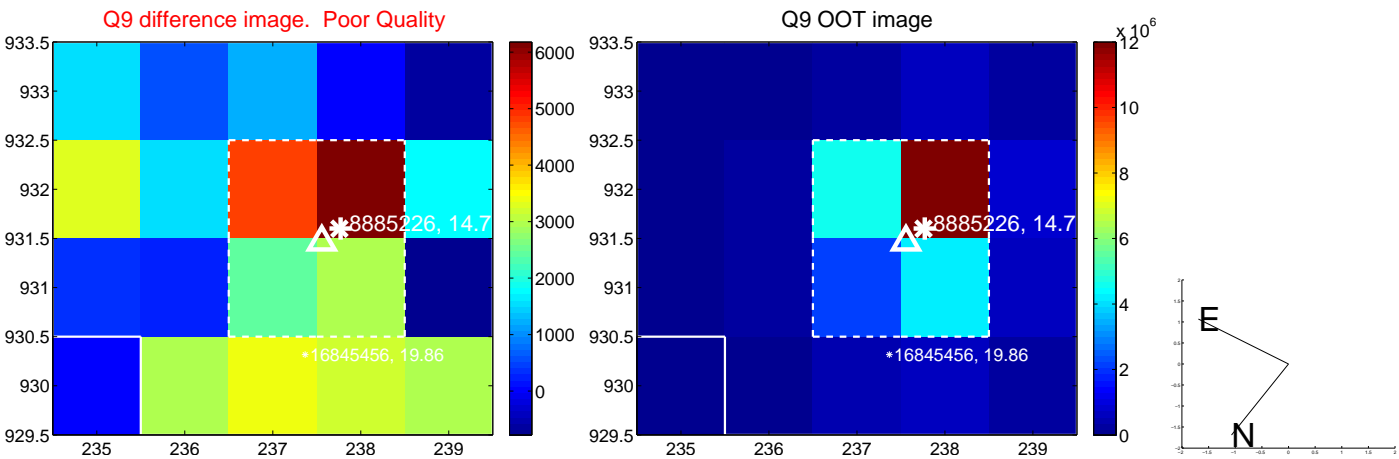
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



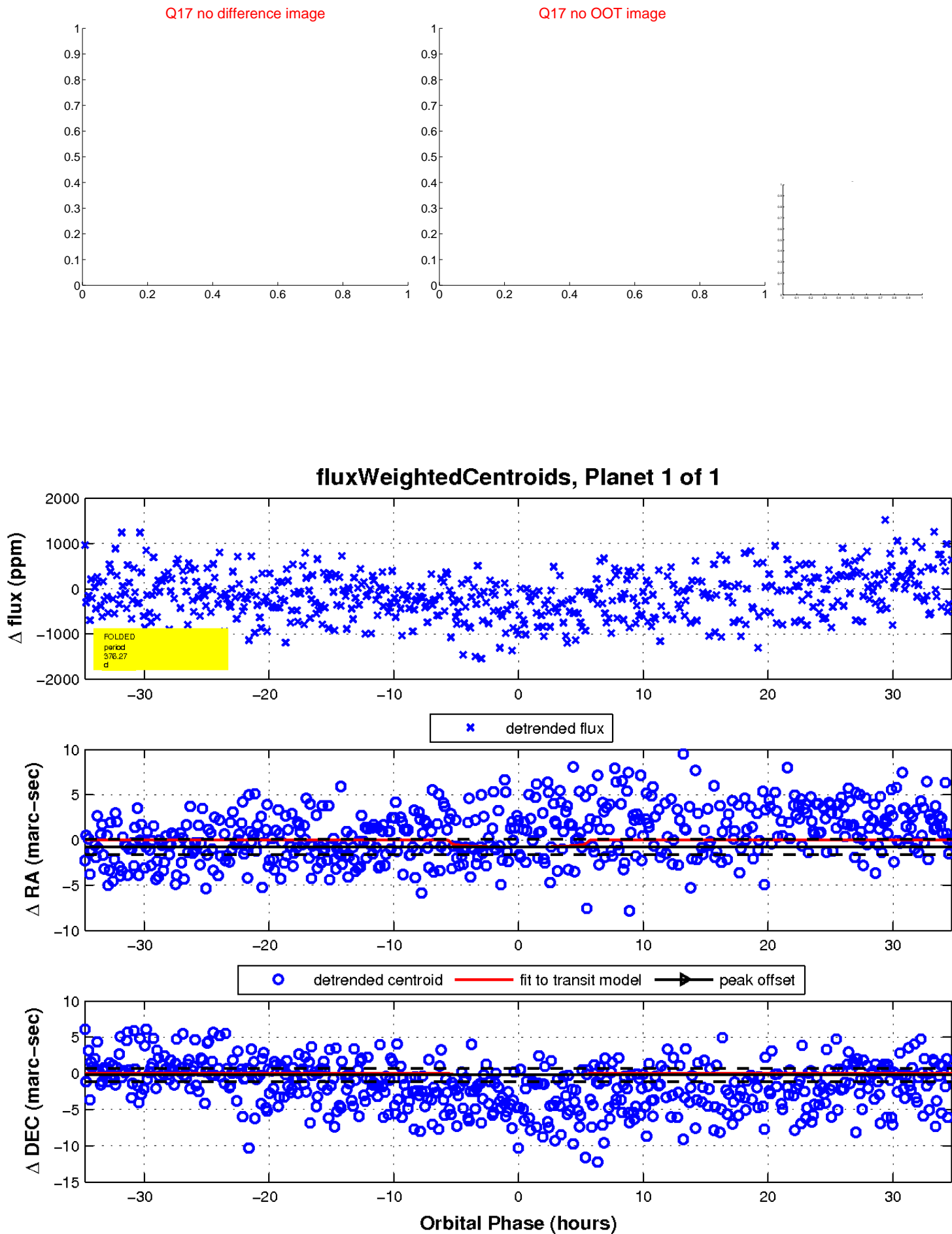
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

