

KIC 007026313

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})
007026313-01	OBS	No	370.797124	308.938112	2084.9	8.352	9.1	9.7	1.04	5910	5.96	1.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007026313-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE--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.

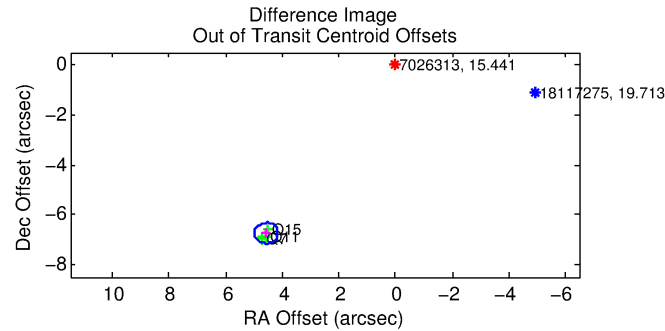
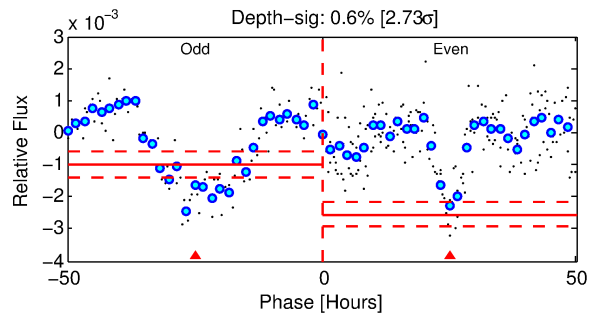
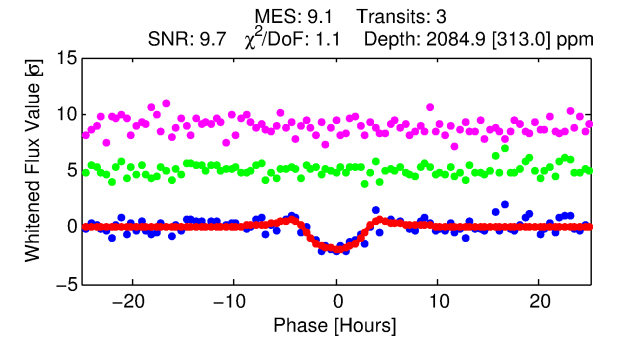
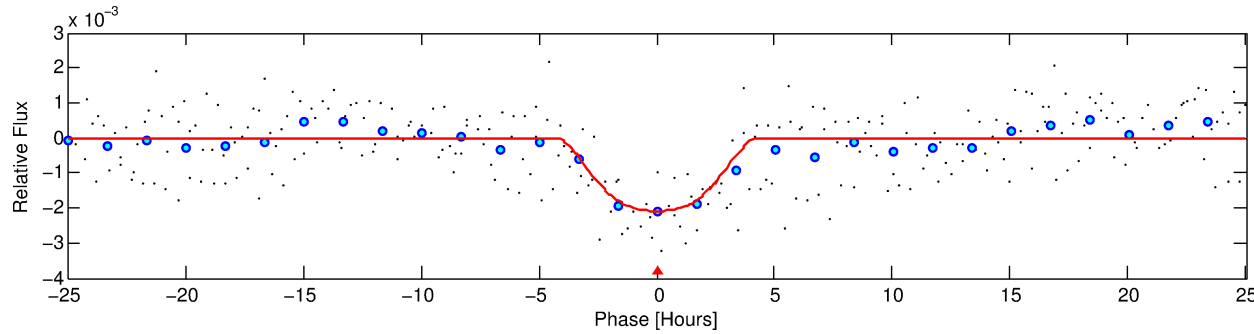
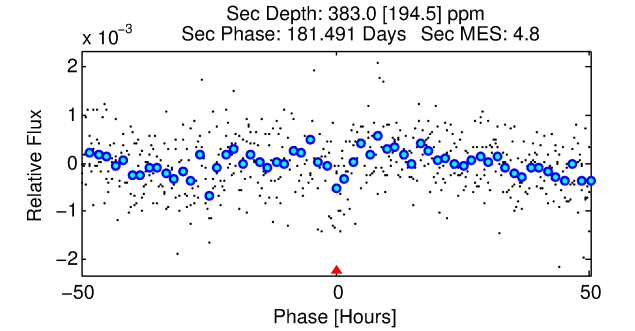
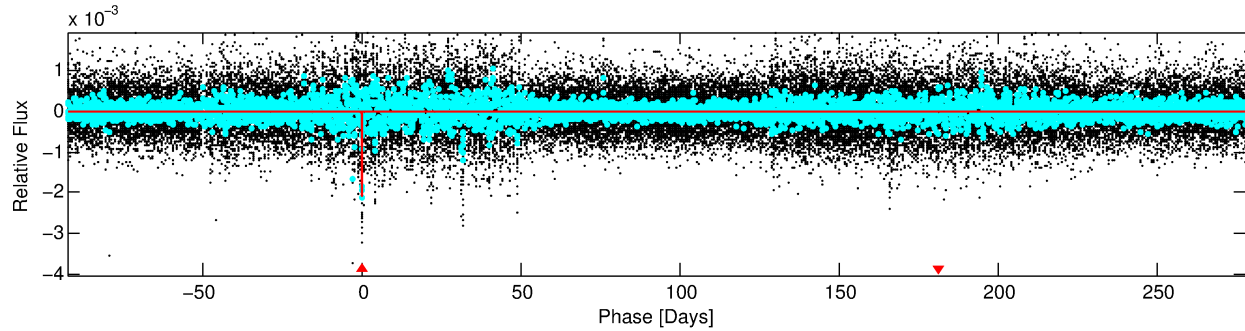
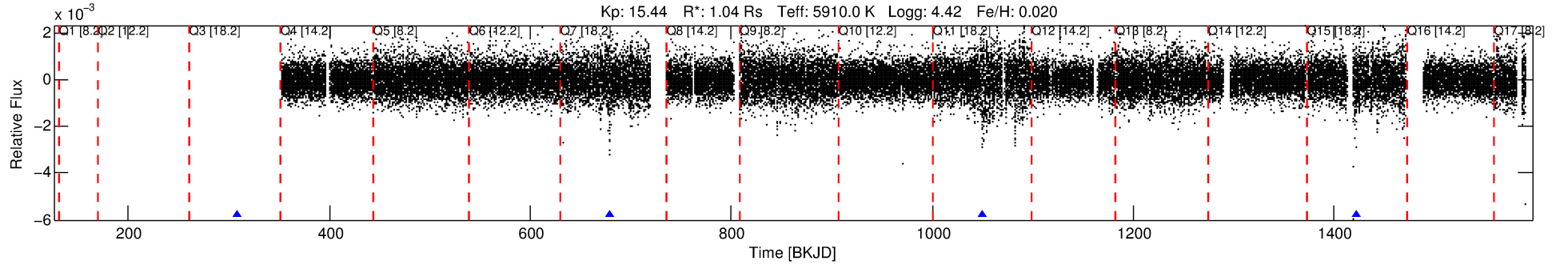
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007026313-01

No Significant Match Found

DV One-Page Summary

KIC: 7026313 Candidate: 1 of 1 Period: 370.797 d



DV Fit Results:

Period = 370.79712 [0.01033] d
Epoch = 308.9381 [0.0229] BKJD
Rp/R* = 0.0527 [0.0056]
a/R* = 158.22 [23.98]
b = 0.94 [0.02]
Seff = 1.13 [0.45]
Teq = 263 [26] K
Rp = 5.96 [1.94] Re
a = 1.0171 [0.2621] AU
Ag = 6128.96 [4073.92] [1.50σ]
Teff = 3600 [511] K [6.53σ]

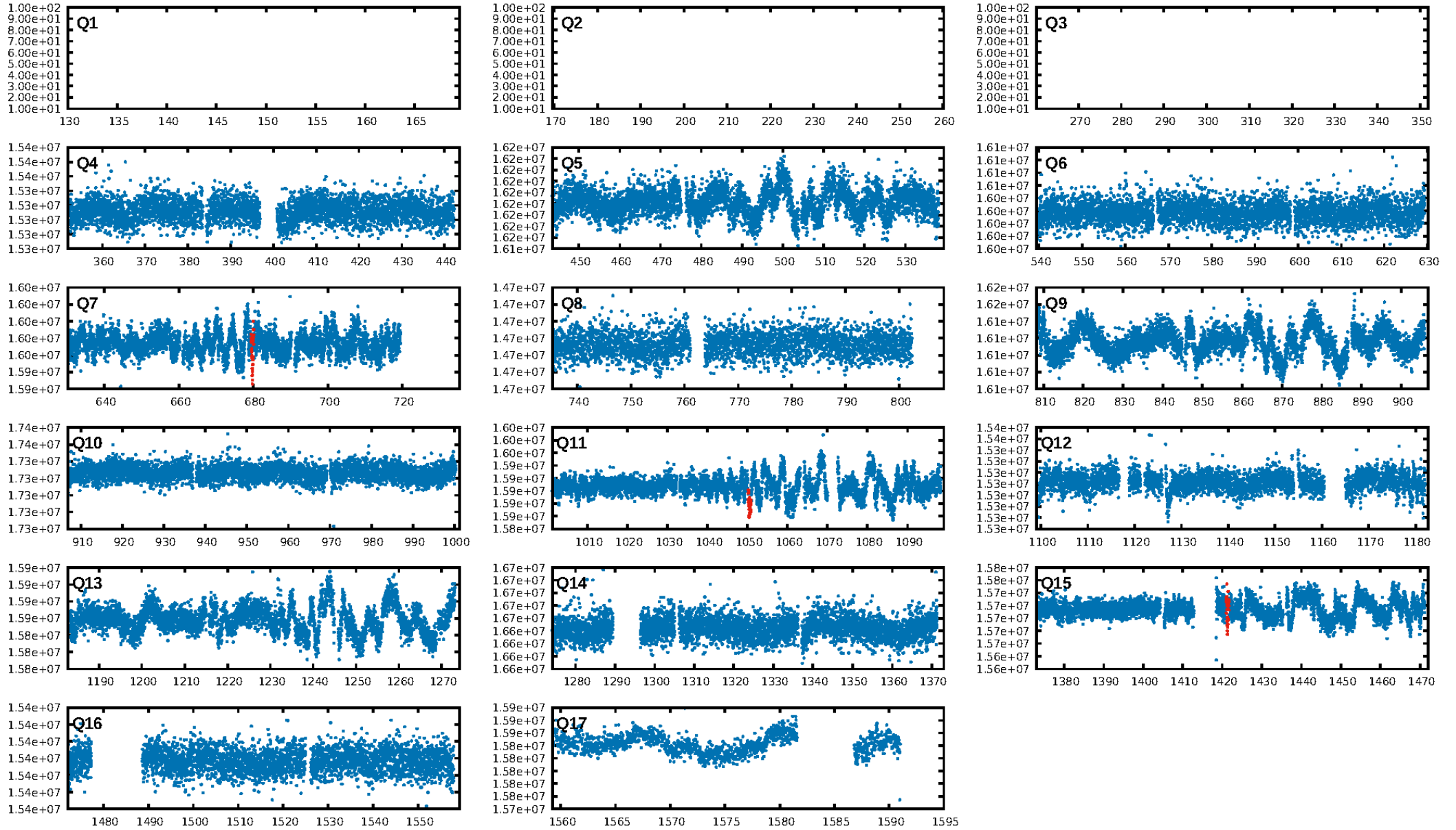
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 25.7%
ModelChiSquareGof-sig: 84.8%
Bootstrap-pfa: 1.37e-11
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.079
Centroid-sig: 0.0%
Centroid-so: 5.983 arcsec [4.65σ]
OotOffset-rm: 8.143 arcsec [58.70σ]
KicOffset-rm: 5.754 arcsec [43.46σ]
OotOffset-st: 0/3/0/0 [3]
KicOffset-st: 0/3/0/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [3/3]

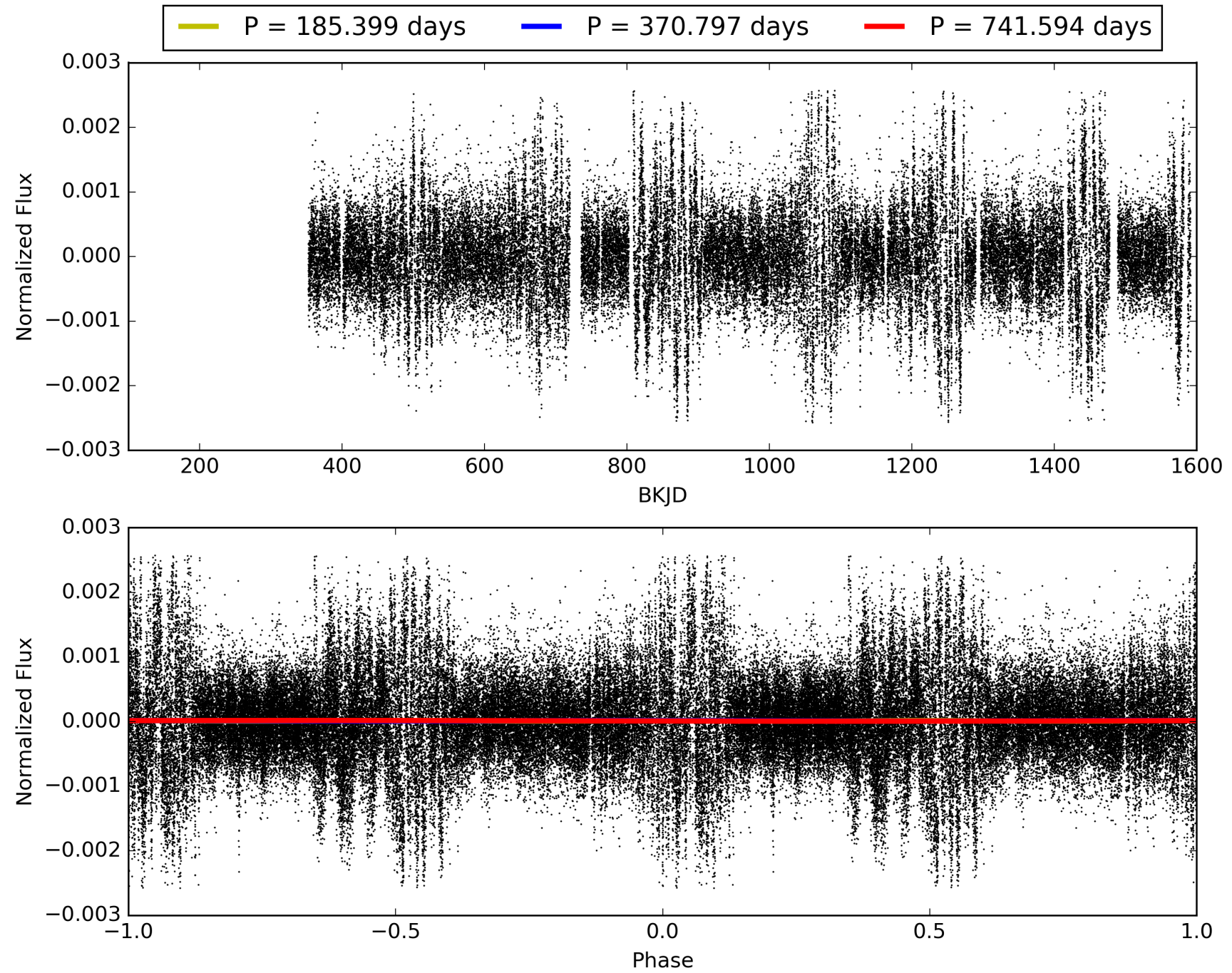
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:17:38 Z

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

TCE 007026313-01, PDC Light Curves

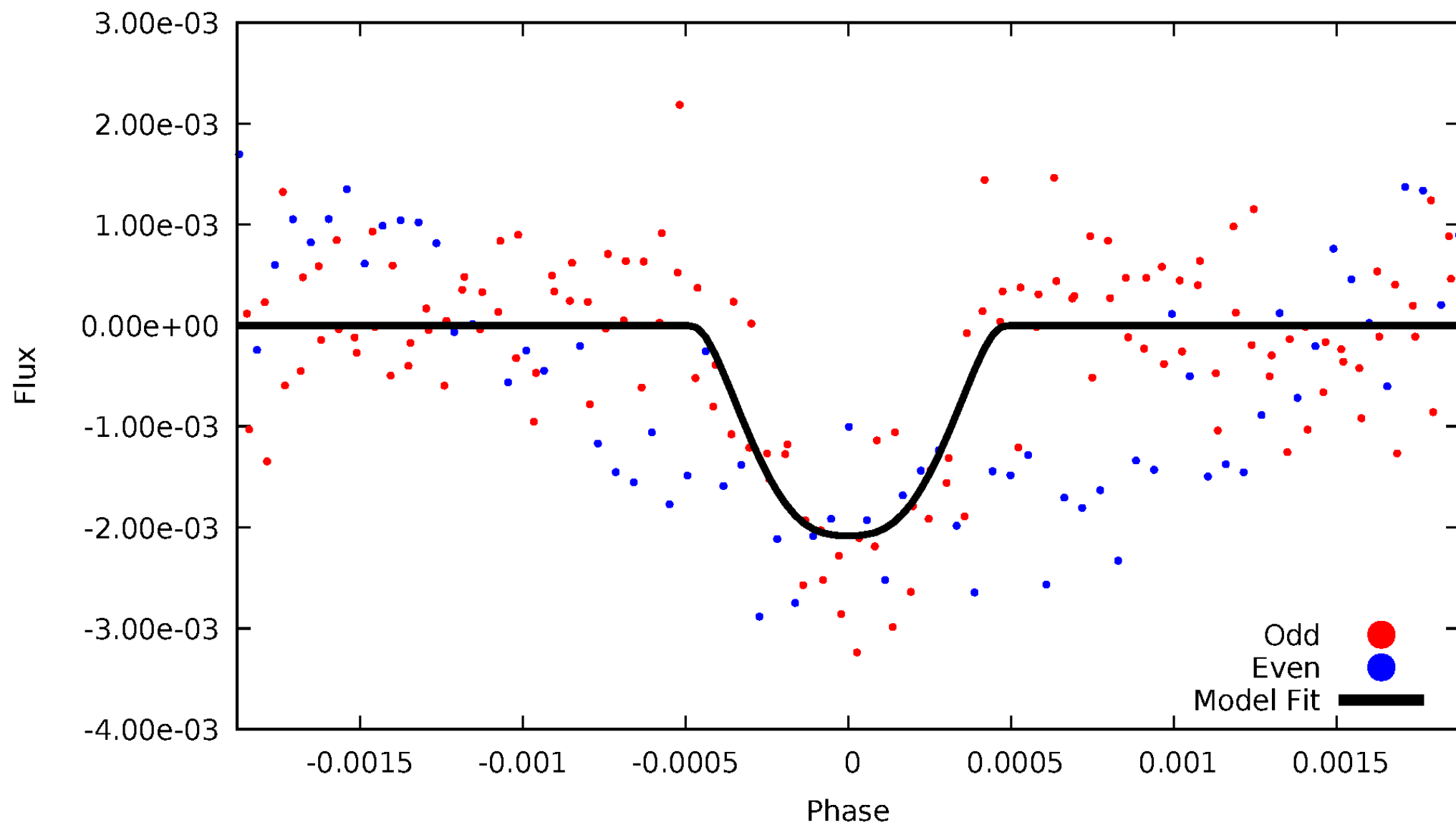


TCE 007026313-01



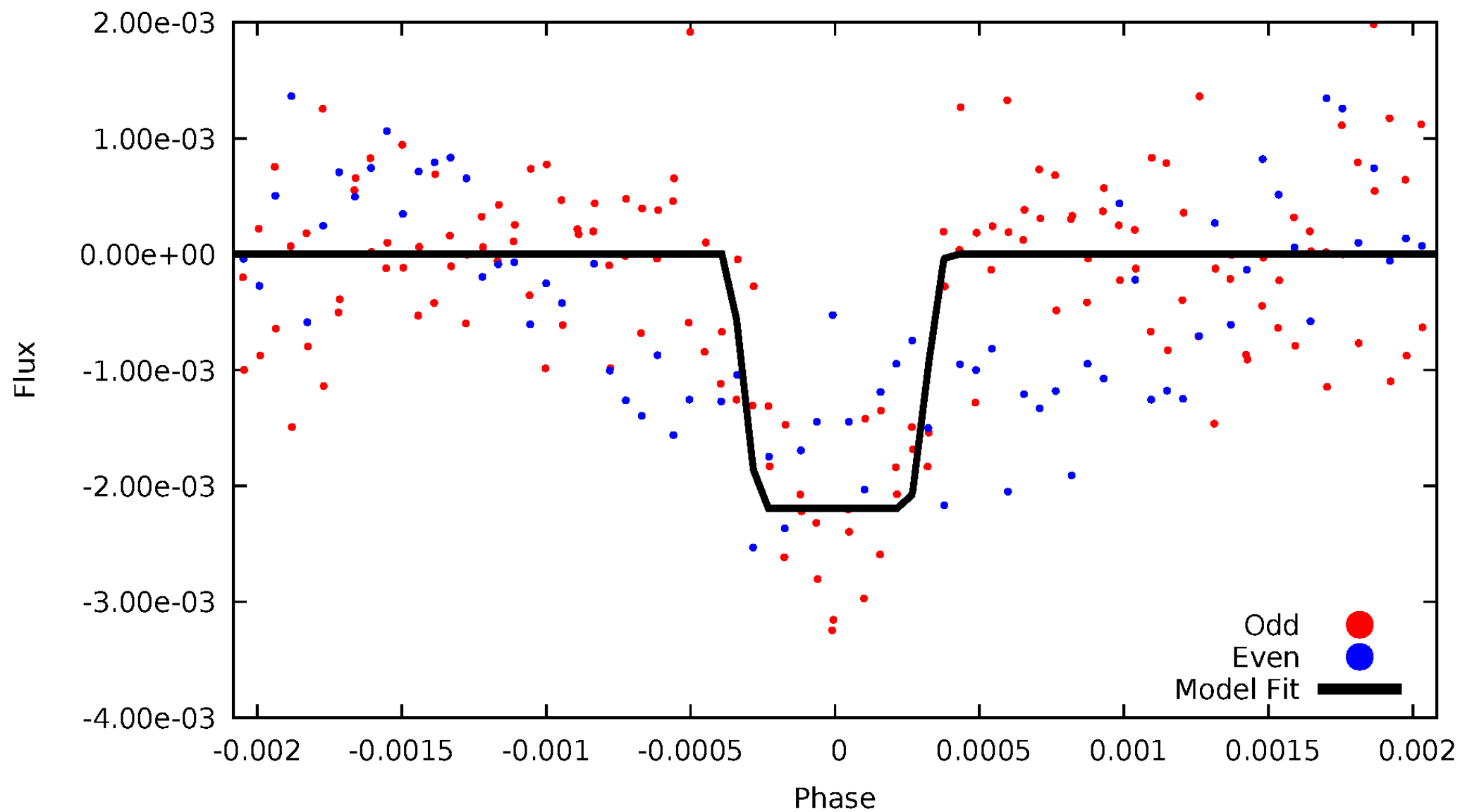
DV Odd/Even

TCE 007026313-01



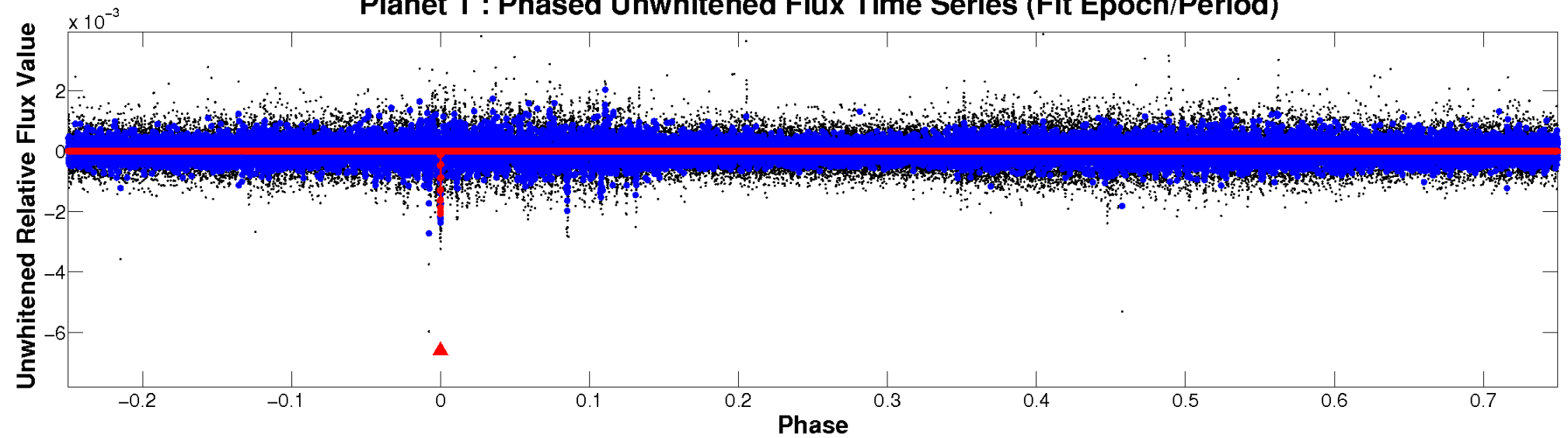
ALT Odd/Even

TCE 007026313-01

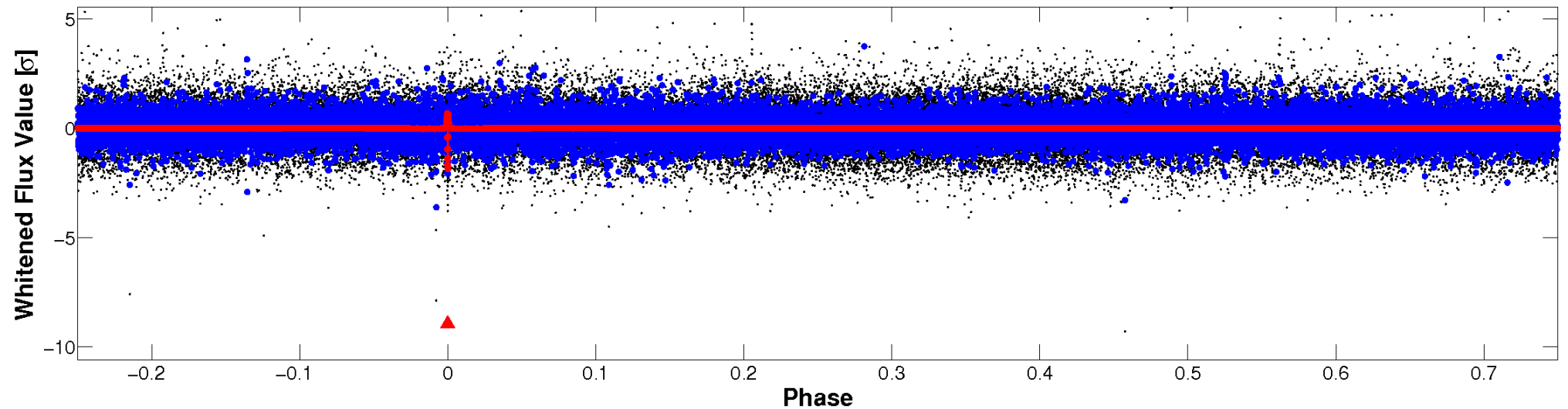


Non-Whitened Vs. Whitened Light Curve

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

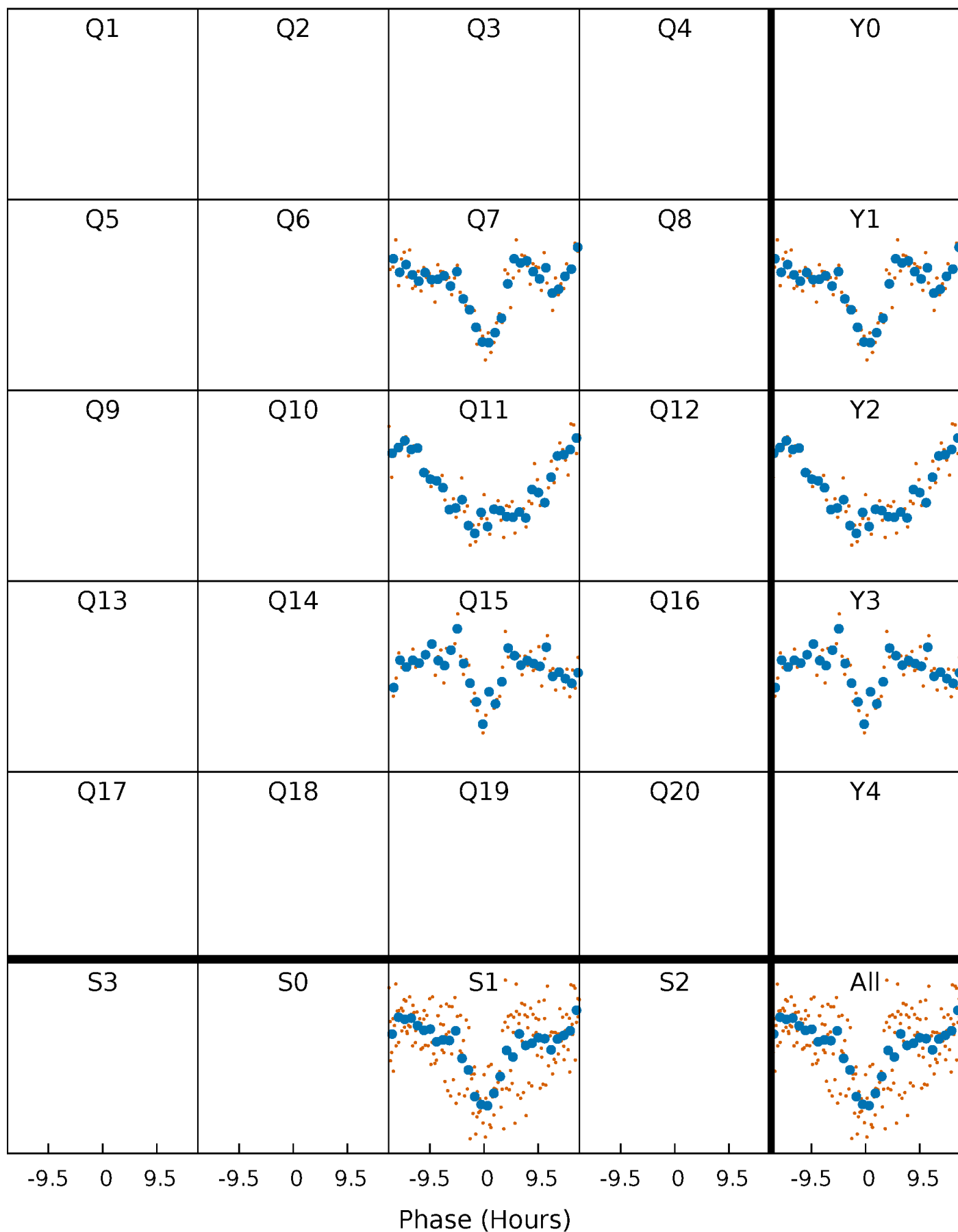


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



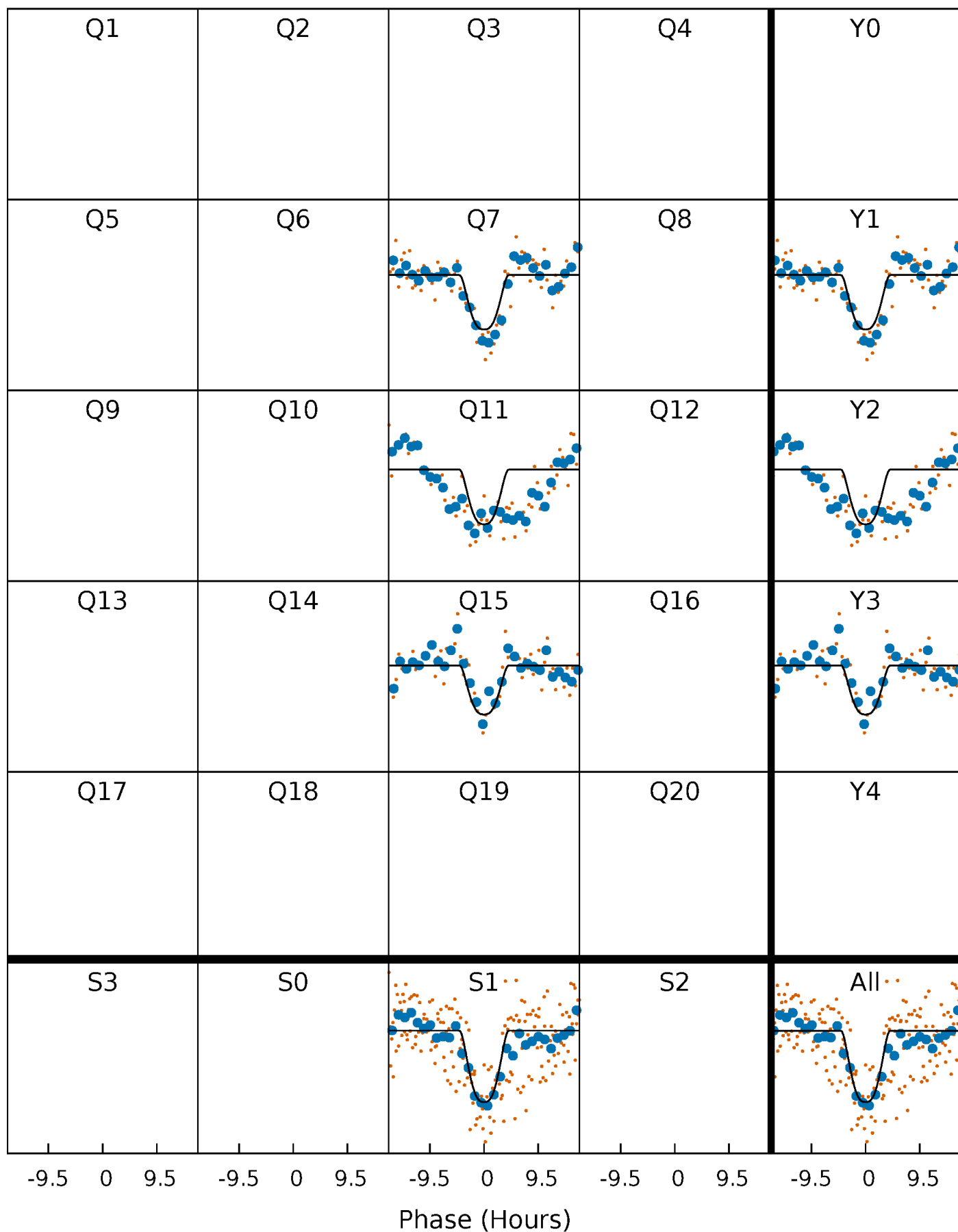
PDC Quarter-Phased Transit Curves

TCE 007026313-01 P=370.797124 Days $T_0=308.938112$ (BKJD)



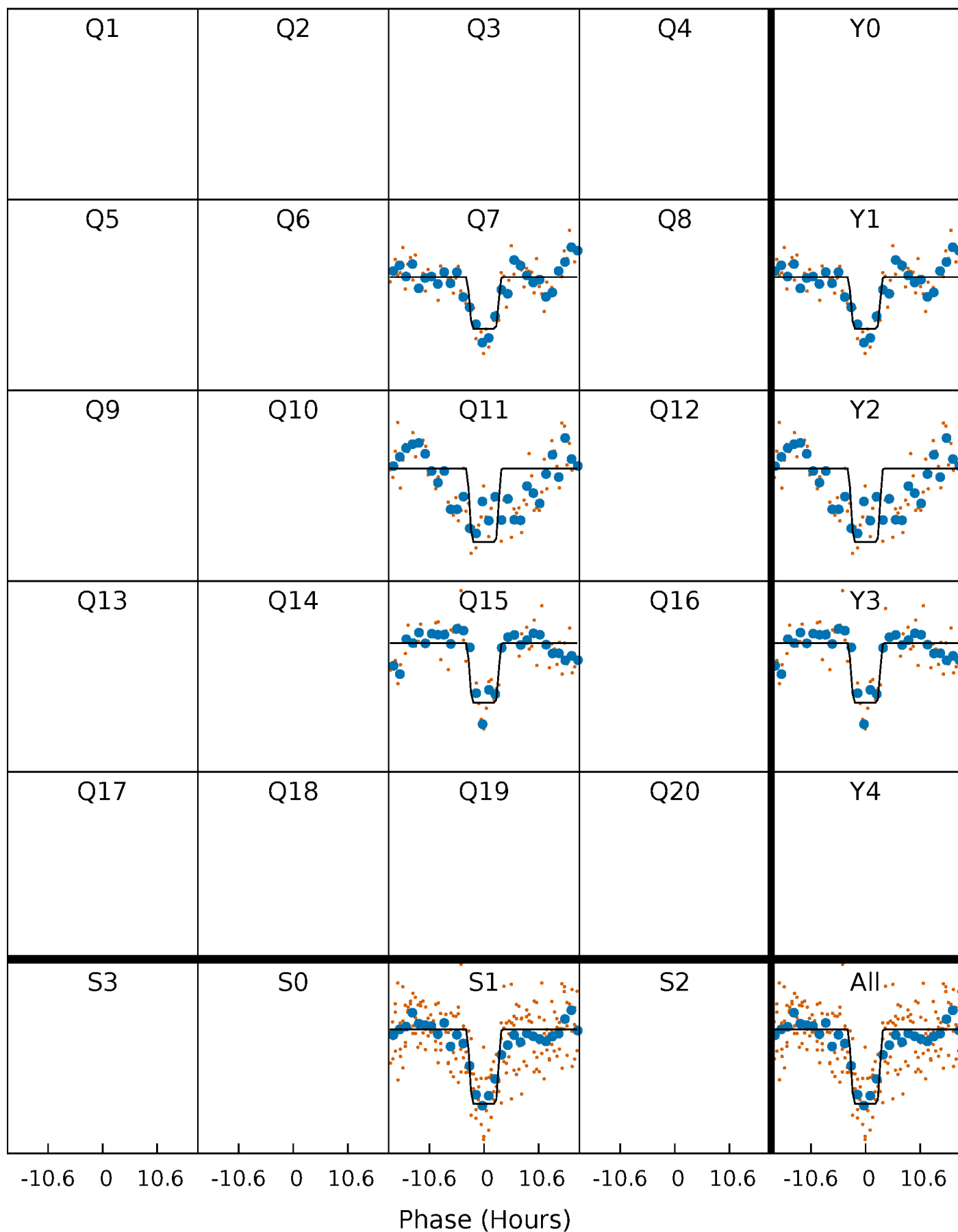
DV Quarter-Phased Transit Curves

TCE 007026313-01 P=370.797124 Days $T_0=308.938112$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

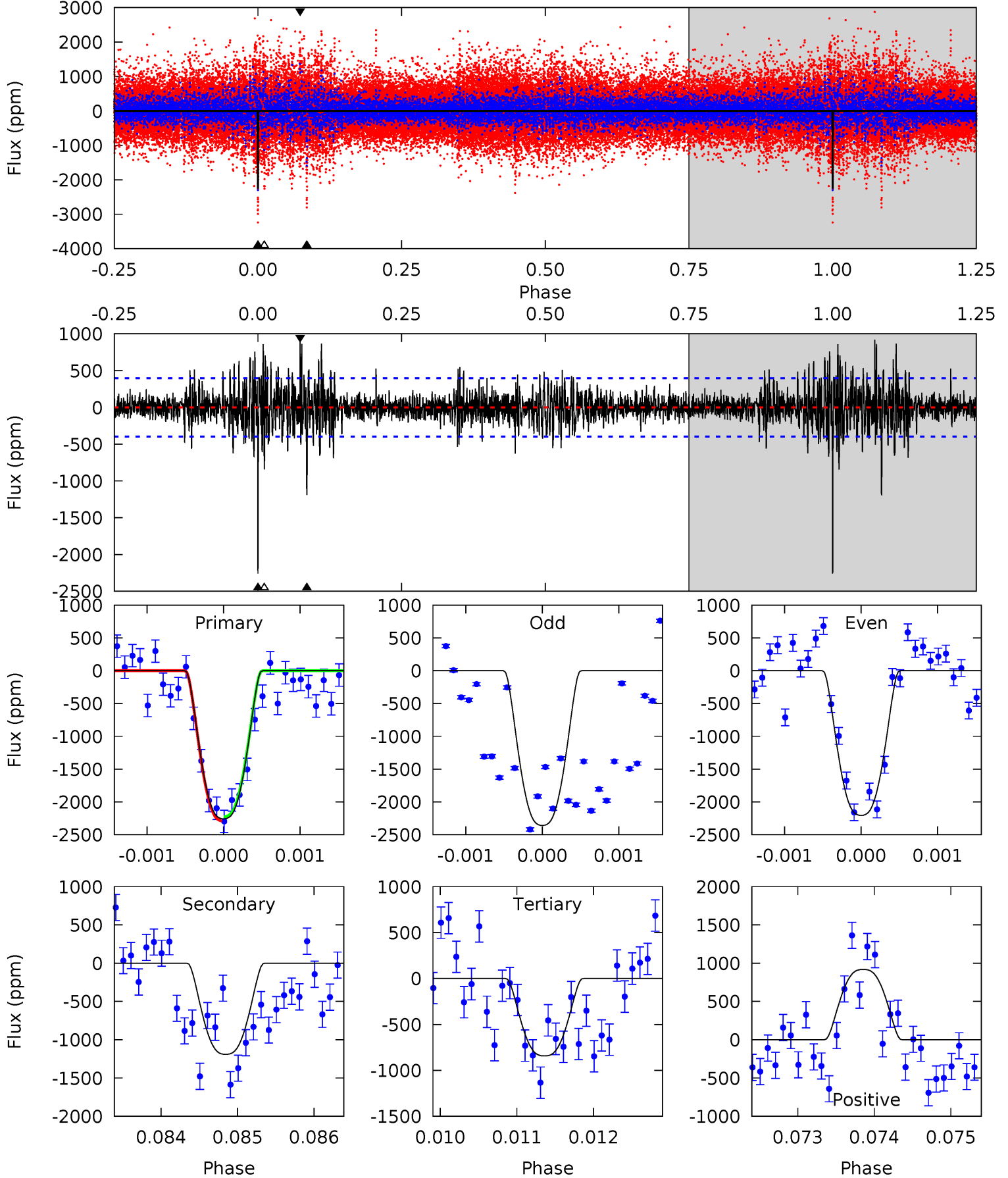
TCE 007026313-01 P=370.787380 Days $T_0=308.961380$ (BKJD)



DV Model-Shift Uniqueness Test

007026313-01, P = 370.797124 Days, E = 308.938112 Days

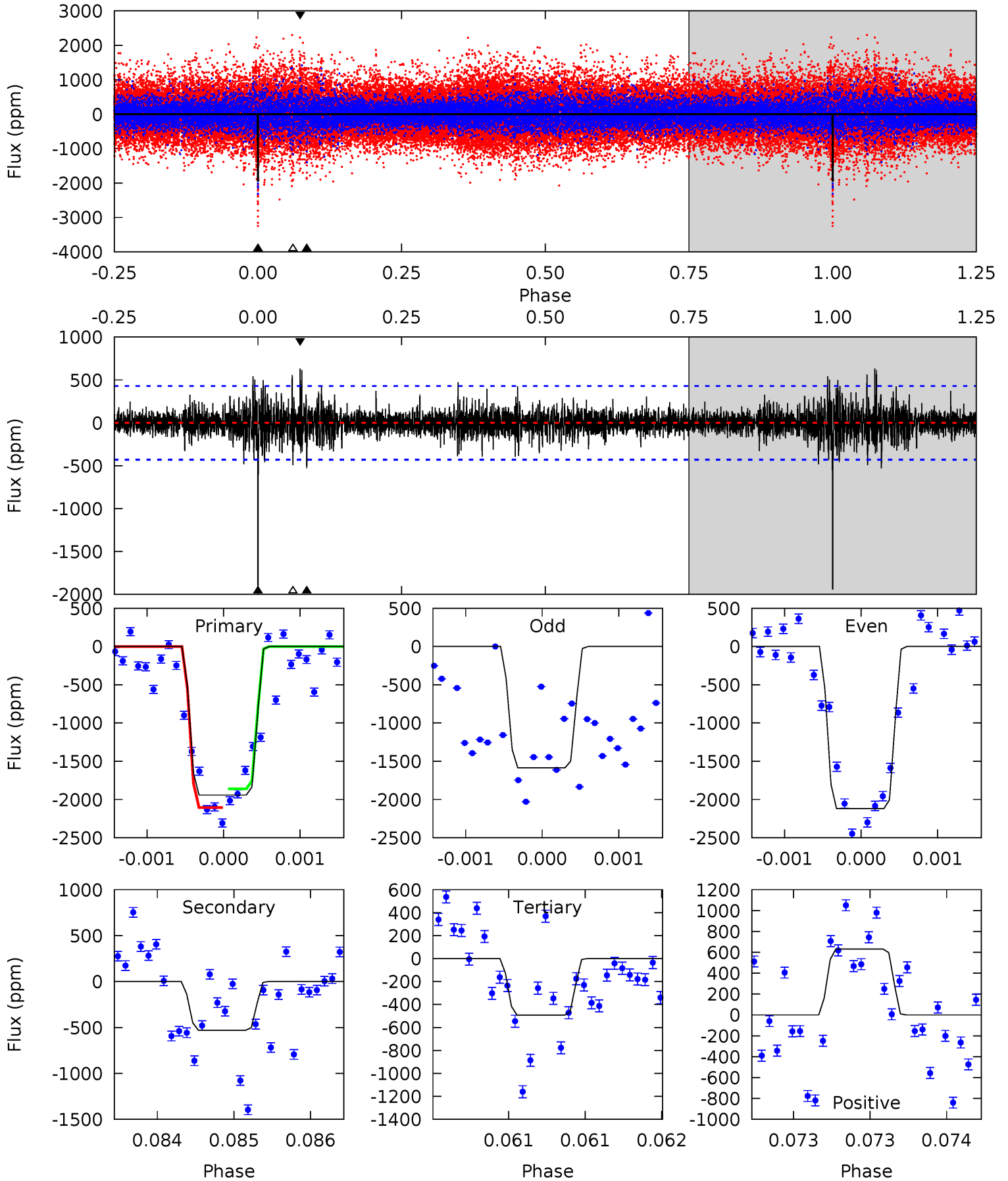
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.1	16.4	11.6	12.6	5.46	3.30	2.34	19.5	18.4	4.80	3.75	1.00	0.96	0.29	0.46



Alt Model-Shift Uniqueness Test

007026313-01, P = 370.787380 Days, E = 308.961380 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.9	6.81	6.33	8.09	5.51	3.38	1.36	18.6	16.8	0.49	-1.27	3.28	0.99	0.25	1.54



Stellar Parameters For KIC 007026313

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5910^{+184}_{-205}	$4.416^{+0.087}_{-0.203}$	$0.020^{+0.250}_{-0.300}$	$1.036^{+0.319}_{-0.137}$	$1.020^{+0.138}_{-0.124}$	$1.292^{+0.580}_{-0.676}$
	+3%/-3%	+2%/-5%	+1250%/-1500%	+31%/-13%	+14%/-12%	+45%/-52%
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 007026313-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1192 ± 73	$6.18^{+1.12}_{-0.94}$	374^{+27}_{-20}	4884^{+274}_{-237}	17564^{+6593}_{-4751}
Alt.	-531 ± 78	$5.45^{+1.21}_{-0.84}$	373^{+30}_{-21}	4358^{+269}_{-253}	9917^{+4372}_{-3327}

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 $A_{obs} \gg 1.0$

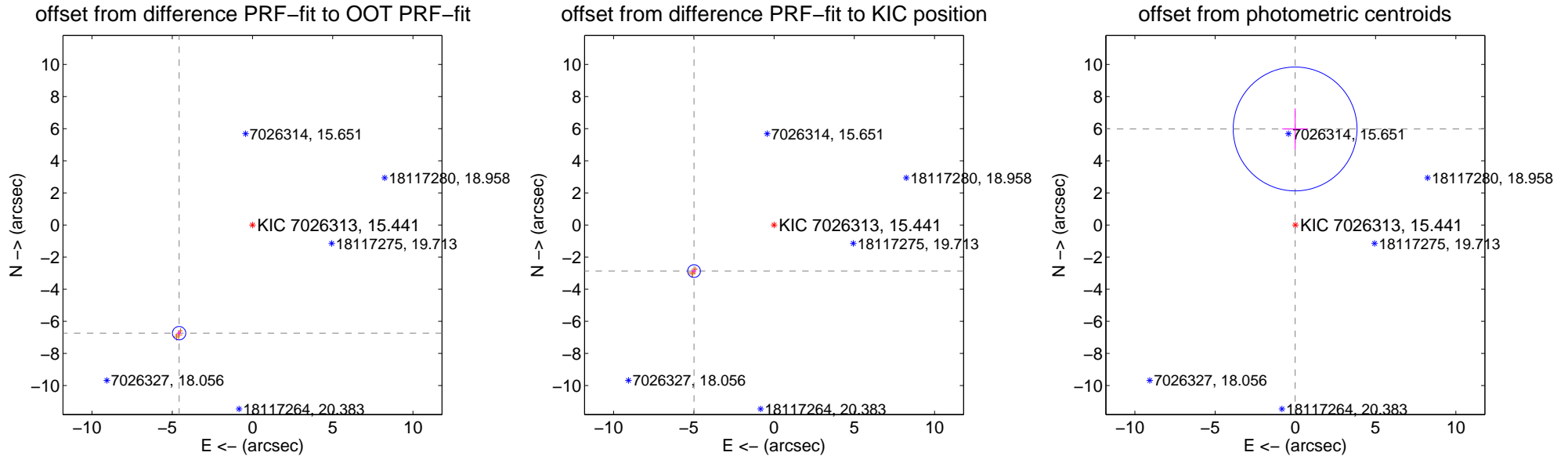
DV Centroid Data

Supplemental centroid analysis for 007026313-01. Kepler magnitude: 15.44. Transit SNR 9.67

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 3.86 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.143 ± 0.139	58.70	4.571 ± 0.129	-6.739 ± 0.143
PRF-fit source offset from KIC position	5.754 ± 0.132	43.46	4.986 ± 0.129	-2.871 ± 0.143
photometric centroid source offset	5.98 ± 1.29	4.65	0.02 ± 0.80	5.98 ± 1.29

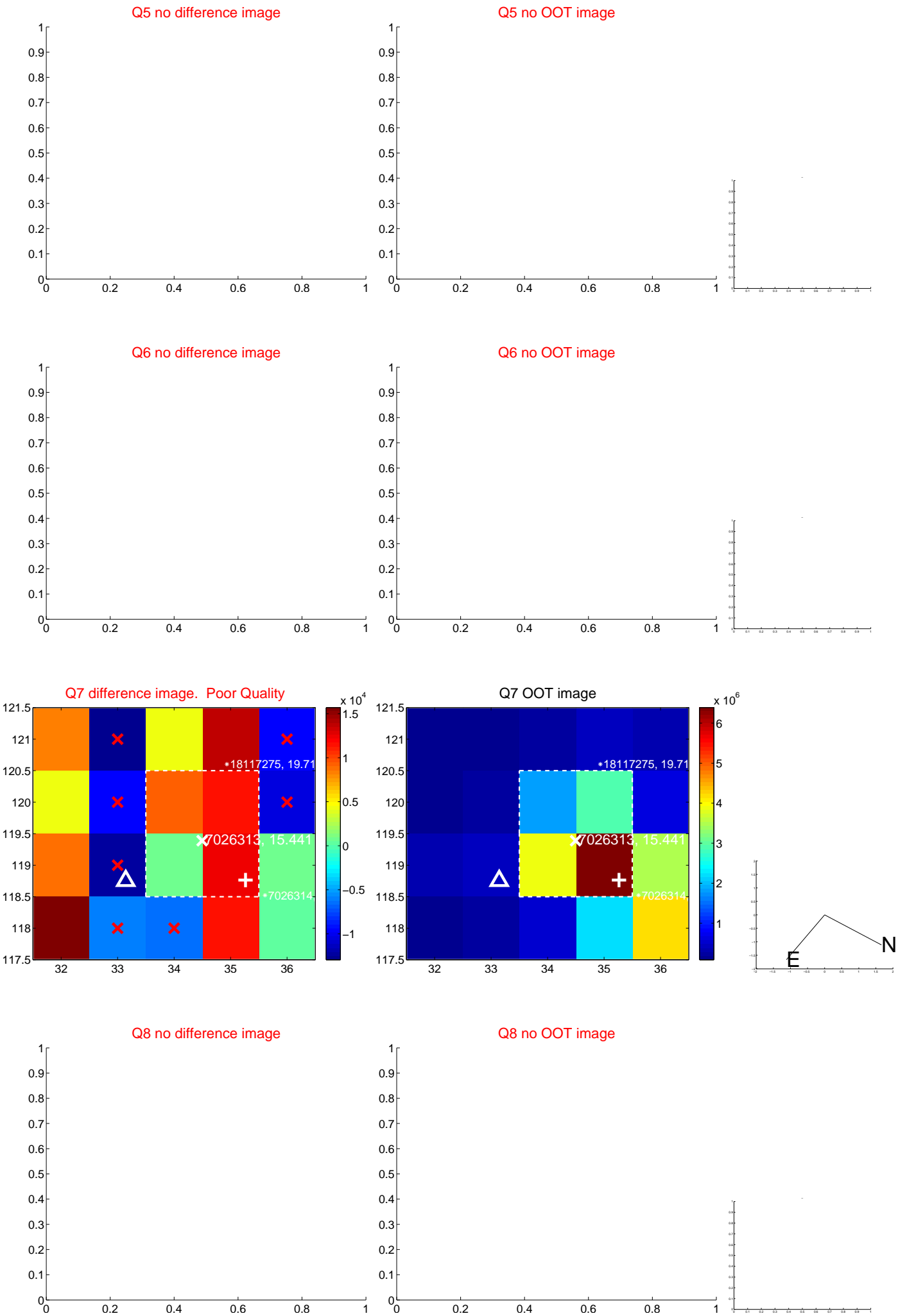


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

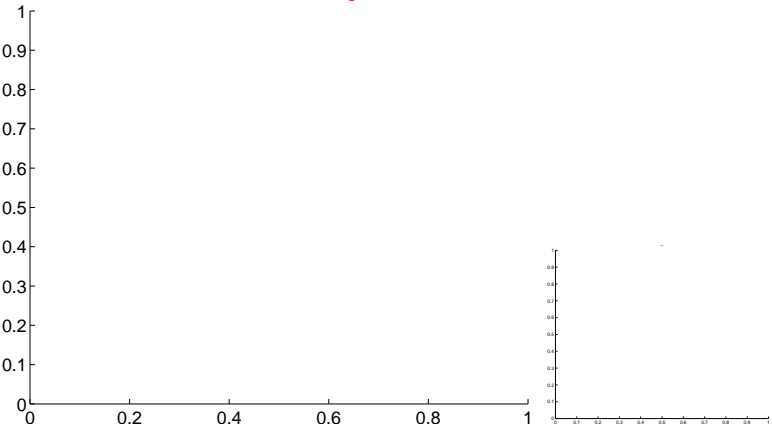


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

Q9 no difference image



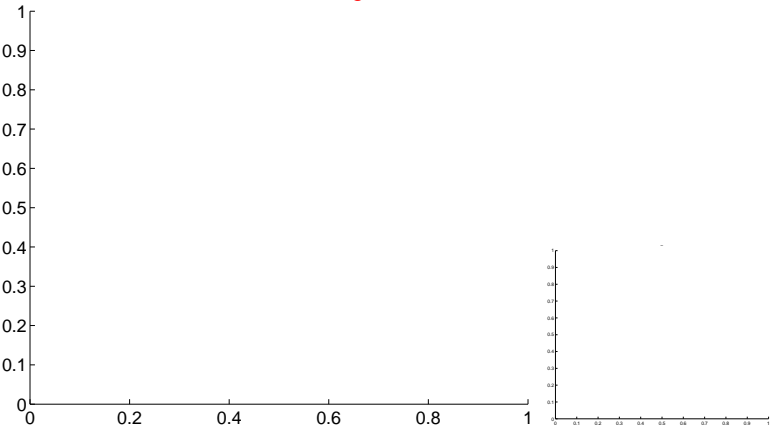
Q9 no OOT image



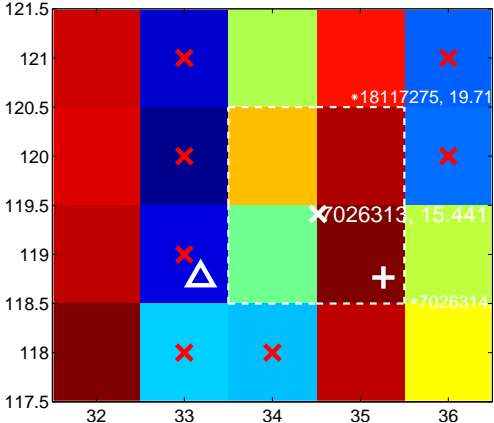
Q10 no difference image



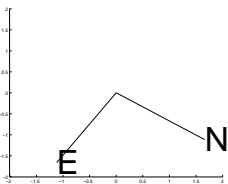
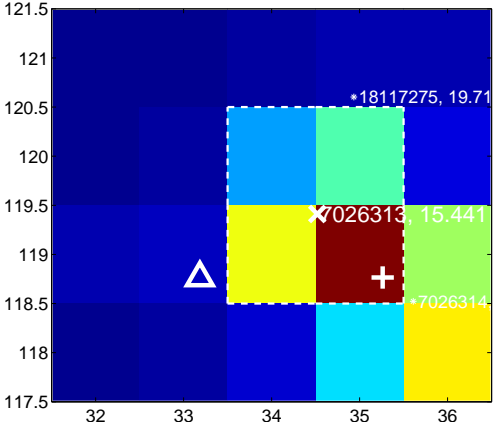
Q10 no OOT image



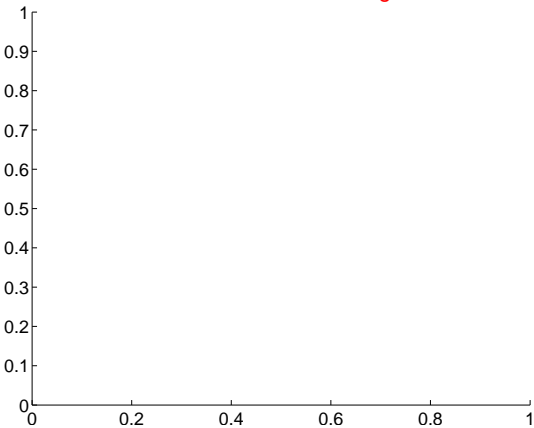
Q11 difference image. Poor Quality



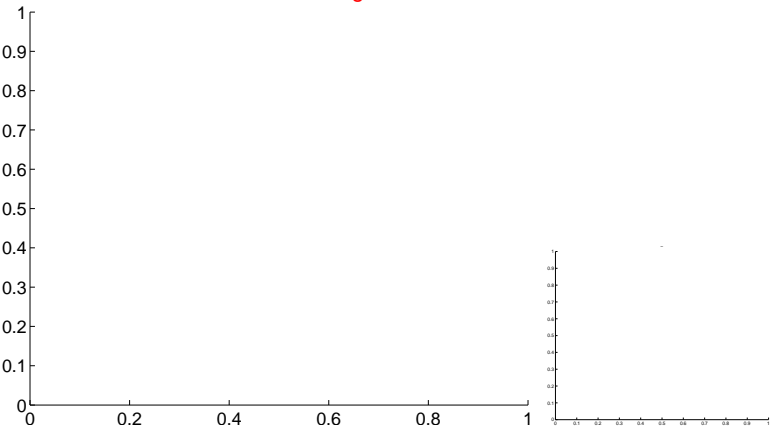
Q11 OOT image



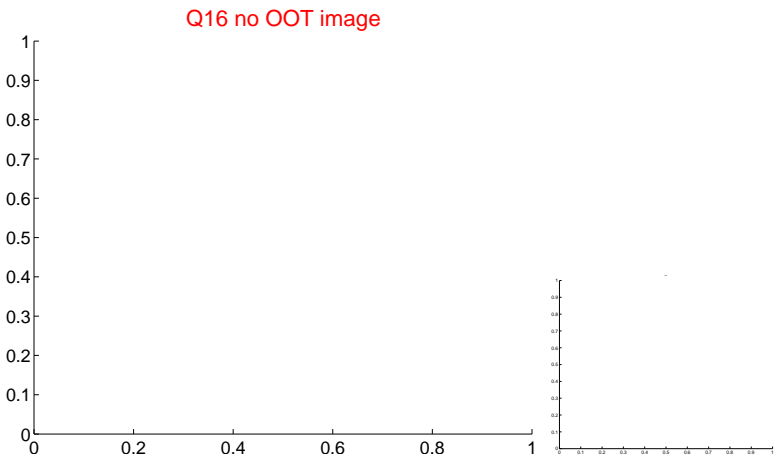
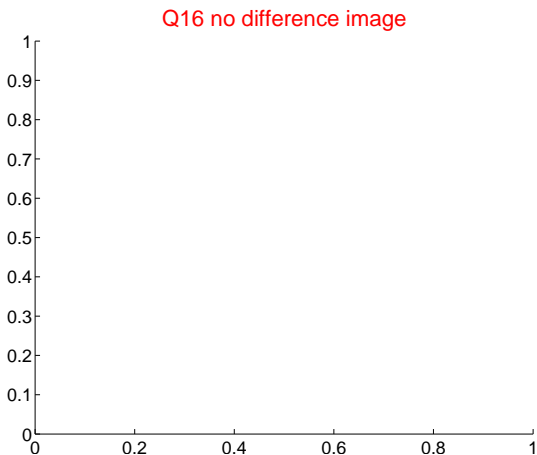
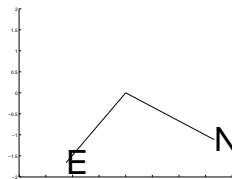
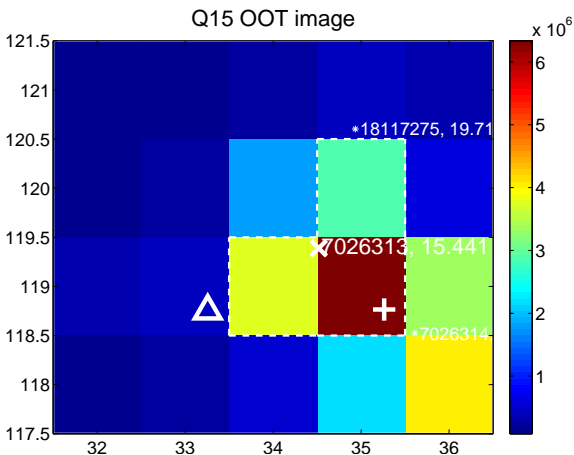
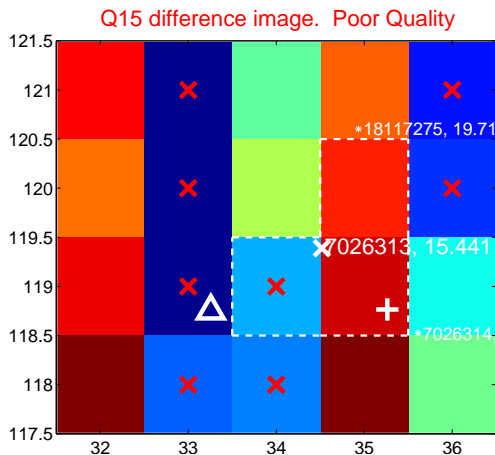
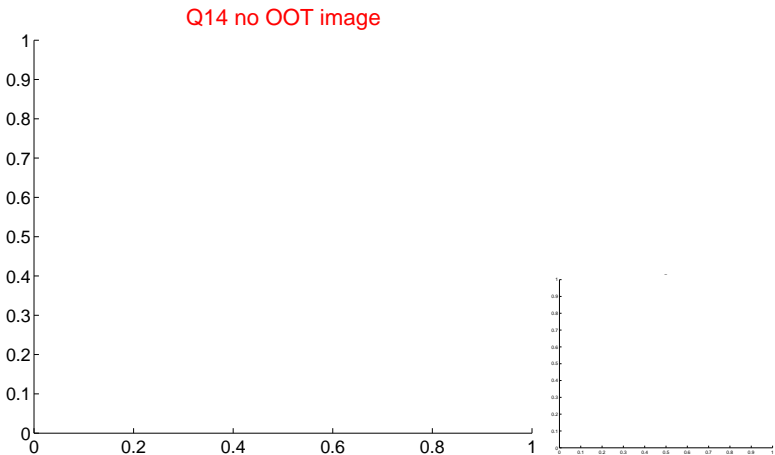
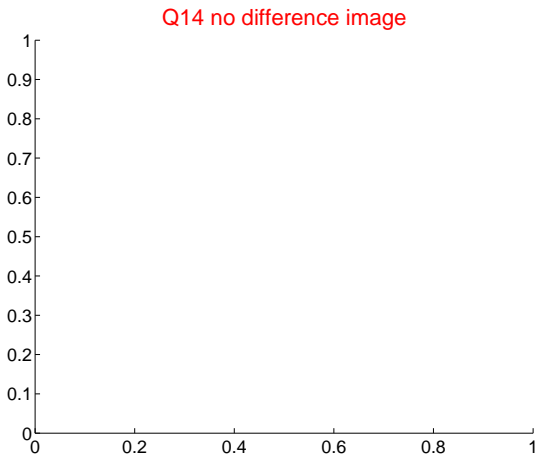
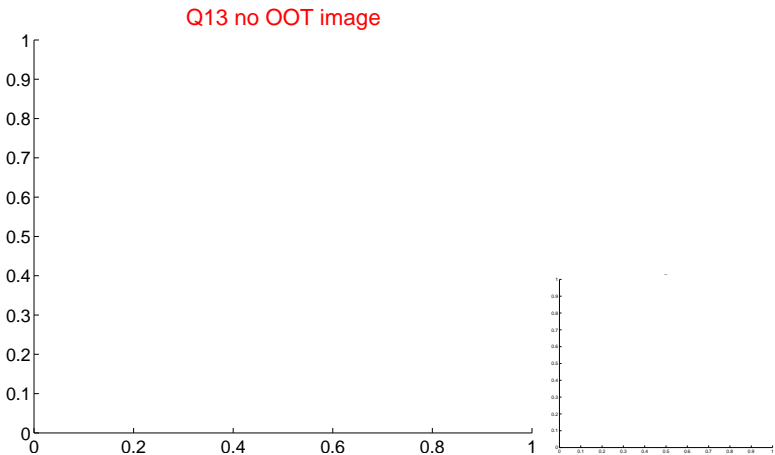
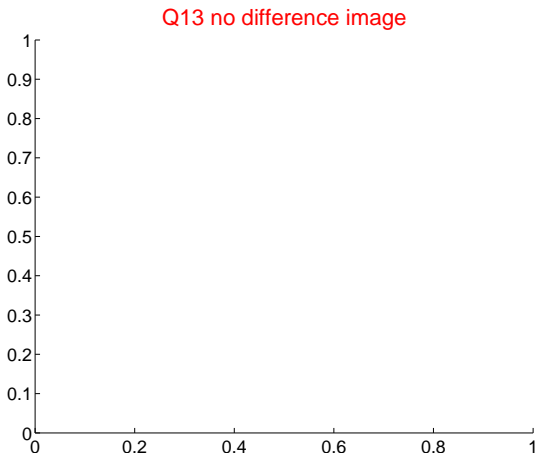
Q12 no difference image



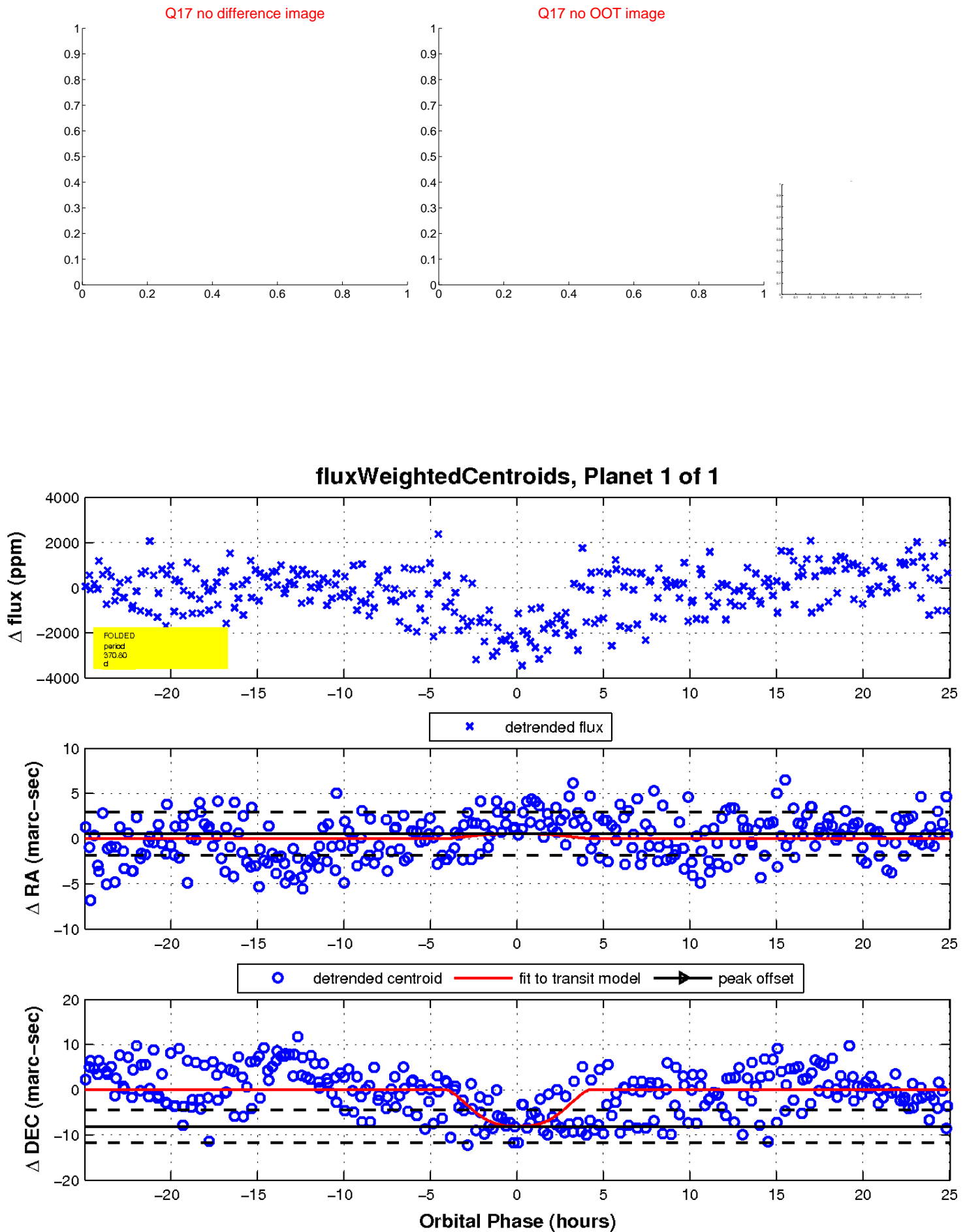
Q12 no OOT image



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



UKIRT Image

Declination

