

KIC 007903192

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})
007903192-01	OBS	No	369.406130	232.041351	635.7	20.172	8.1	9.3	0.85	5351	2.71	0.62

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007903192-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL_SKYE—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.

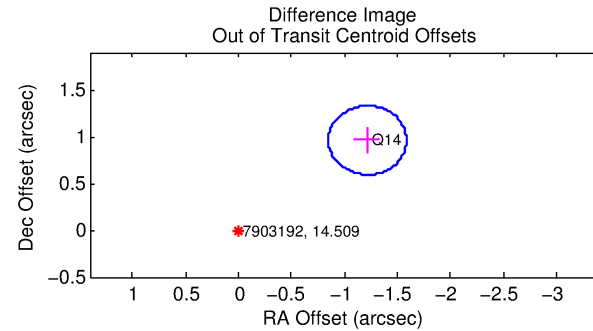
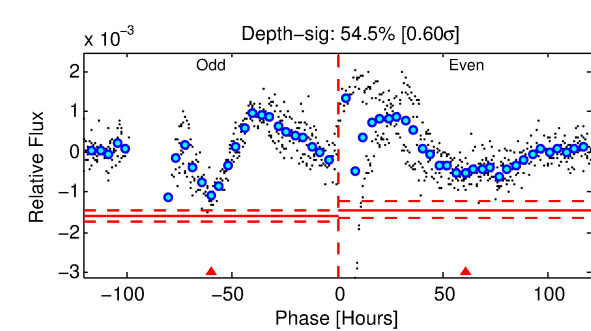
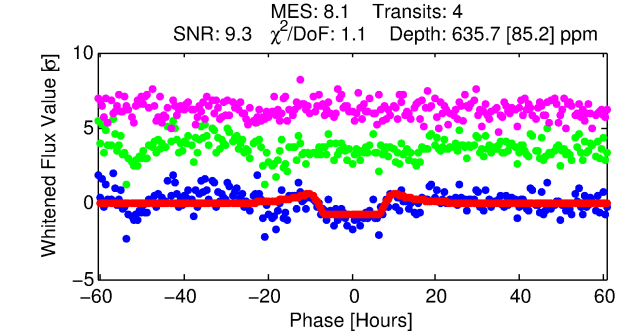
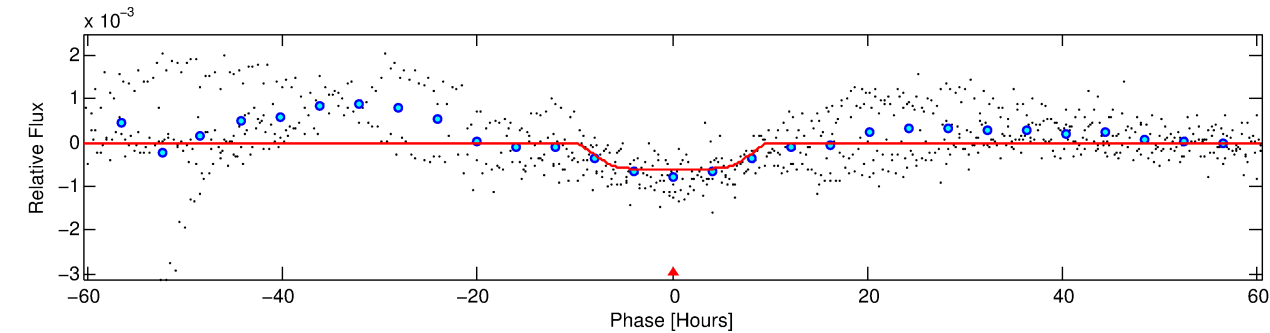
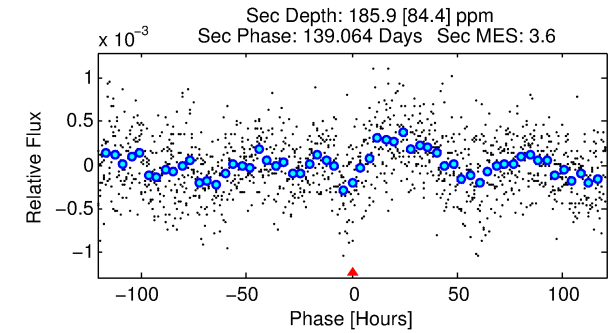
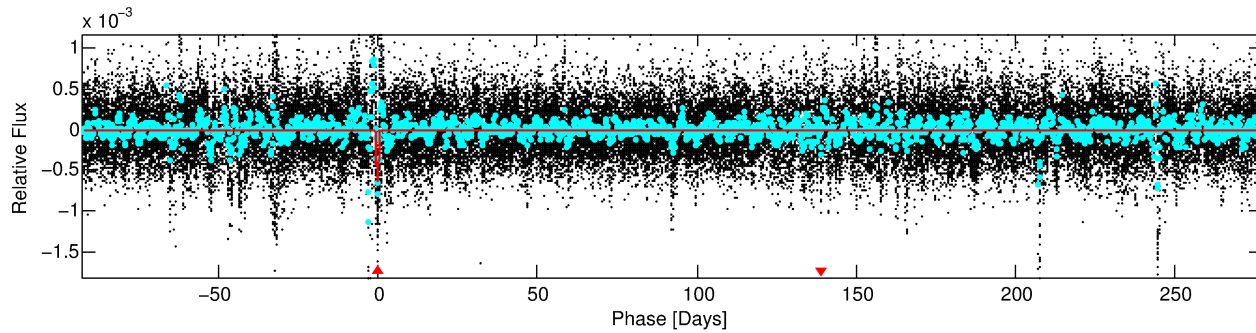
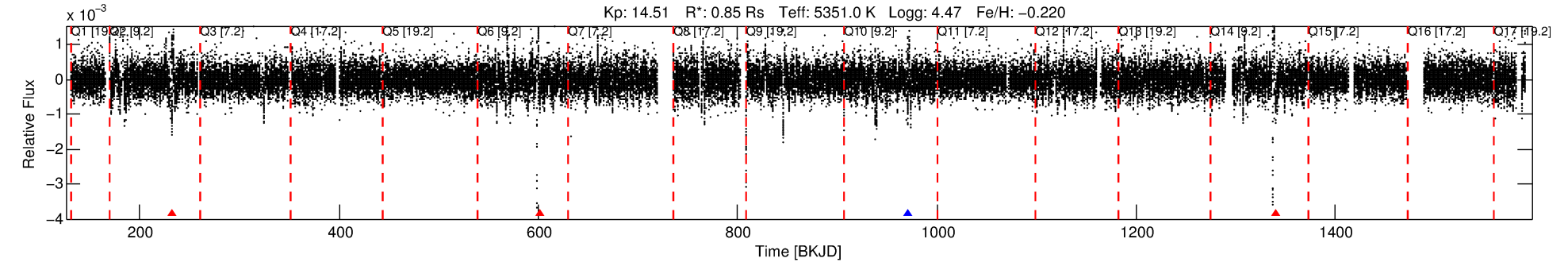
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007903192-01

No Significant Match Found

DV One-Page Summary

KIC: 7903192 Candidate: 1 of 1 Period: 369.406 d



DV Fit Results:

Period = 369.40613 [0.01435] d
Epoch = 232.0414 [0.0274] BKJD
Rp/R* = 0.0292 [0.0025]
a/R* = 59.33 [11.27]
b = 0.94 [0.03]
Seff = 0.62 [0.27]
Teq = 226 [25] K
Rp = 2.71 [0.69] Re
a = 0.9239 [0.2319] AU
Ag = 11927.37 [7643.81] [1.56σ]
Teffp = 3658 [460] K [7.46σ]

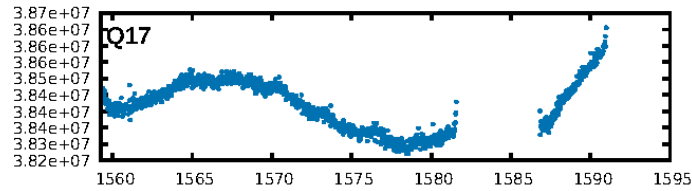
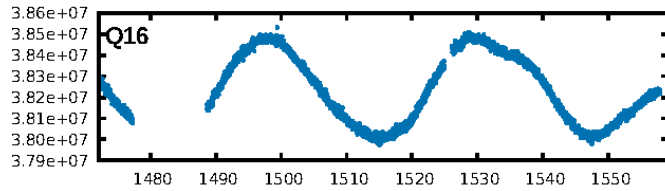
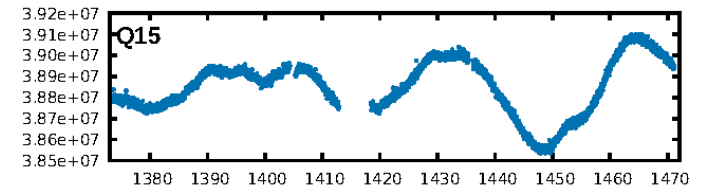
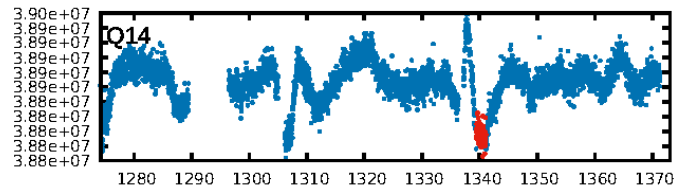
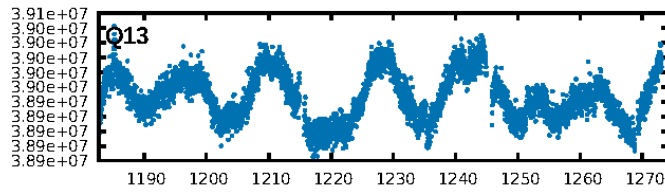
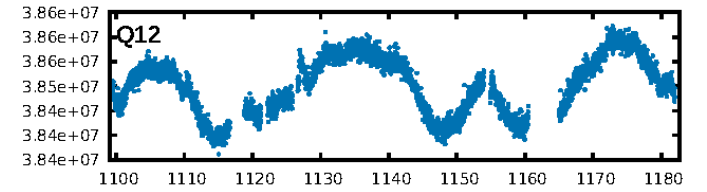
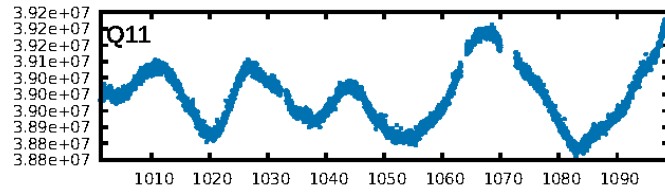
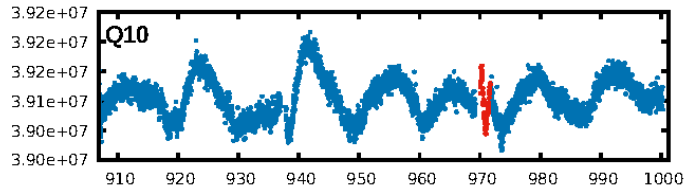
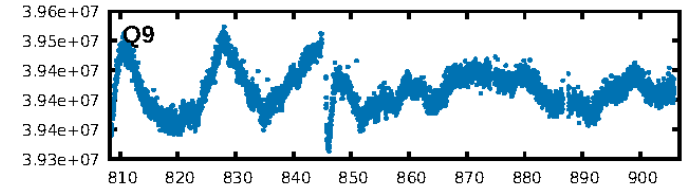
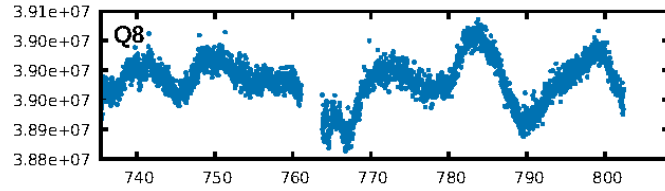
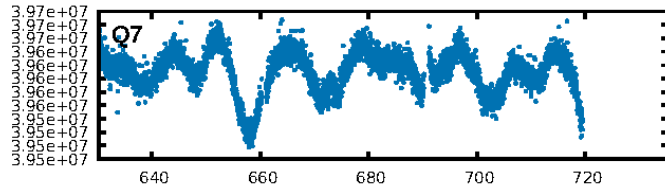
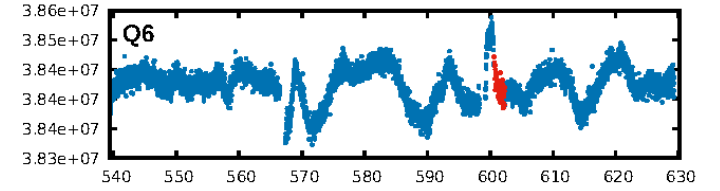
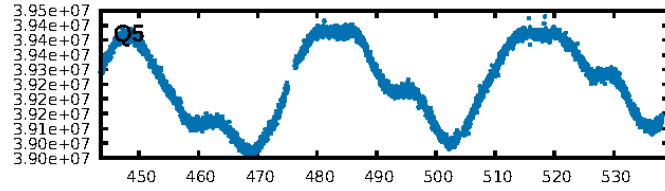
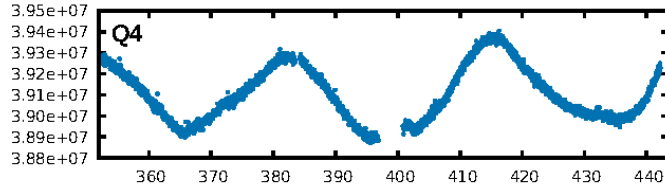
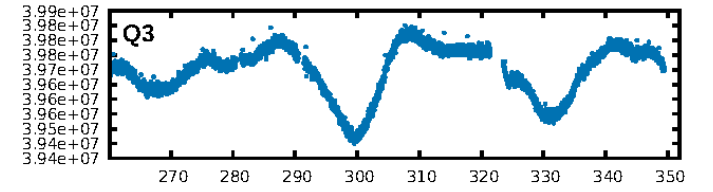
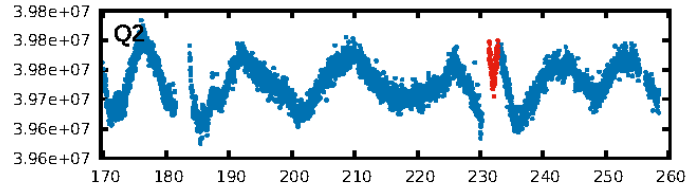
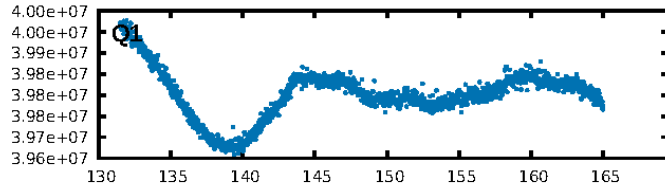
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.60e-09
RollingBand-fgt: 0.25 [1/4]
GhostDiagnostic-chr: 0.1611
Centroid-sig: 33.7%
Centroid-so: 1.593 arcsec [1.02σ]
OotOffset-rm: 1.551 arcsec [12.63σ]
KicOffset-rm: 1.777 arcsec [14.31σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [1/1]

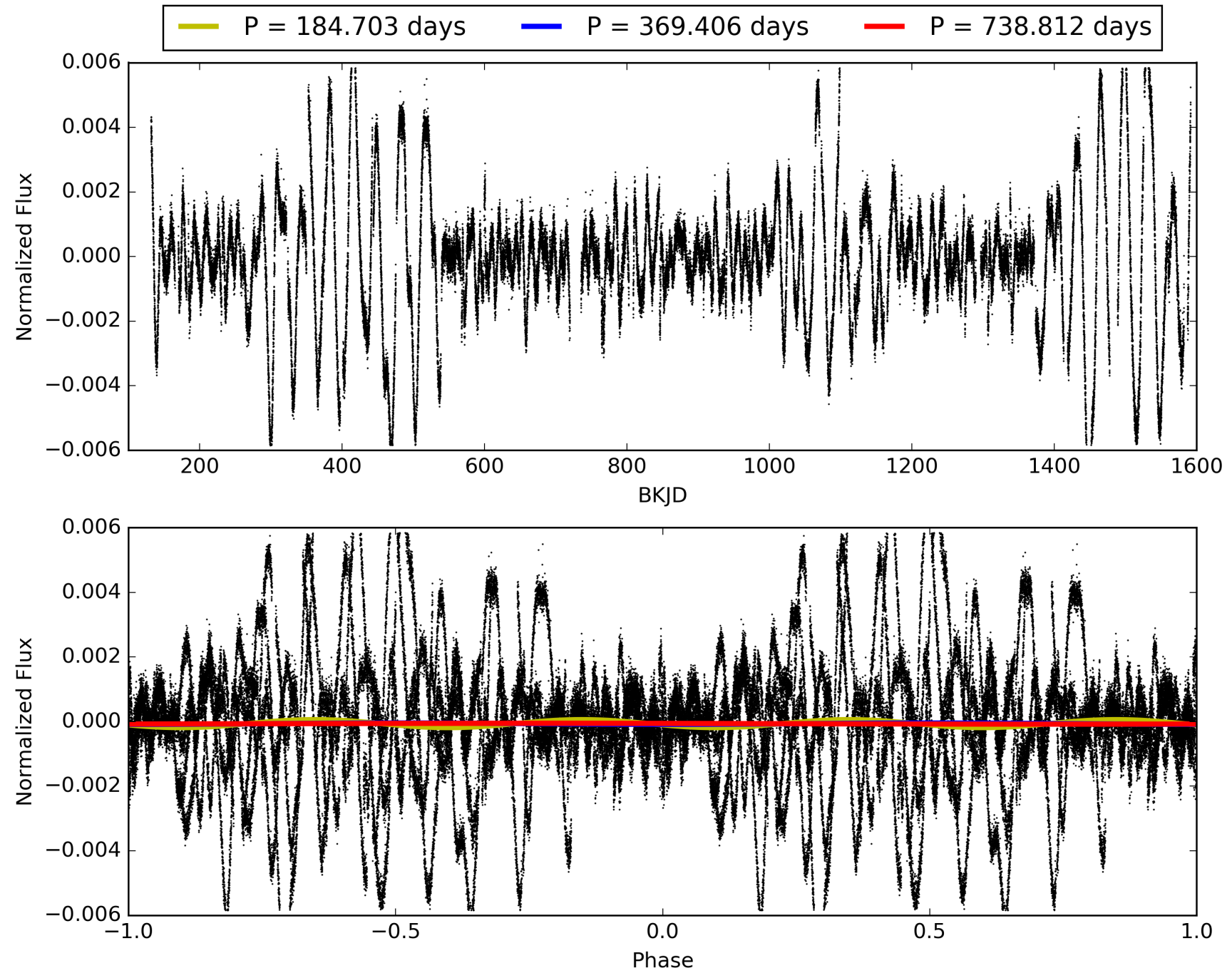
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 01:59:05 Z

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

TCE 007903192-01, PDC Light Curves

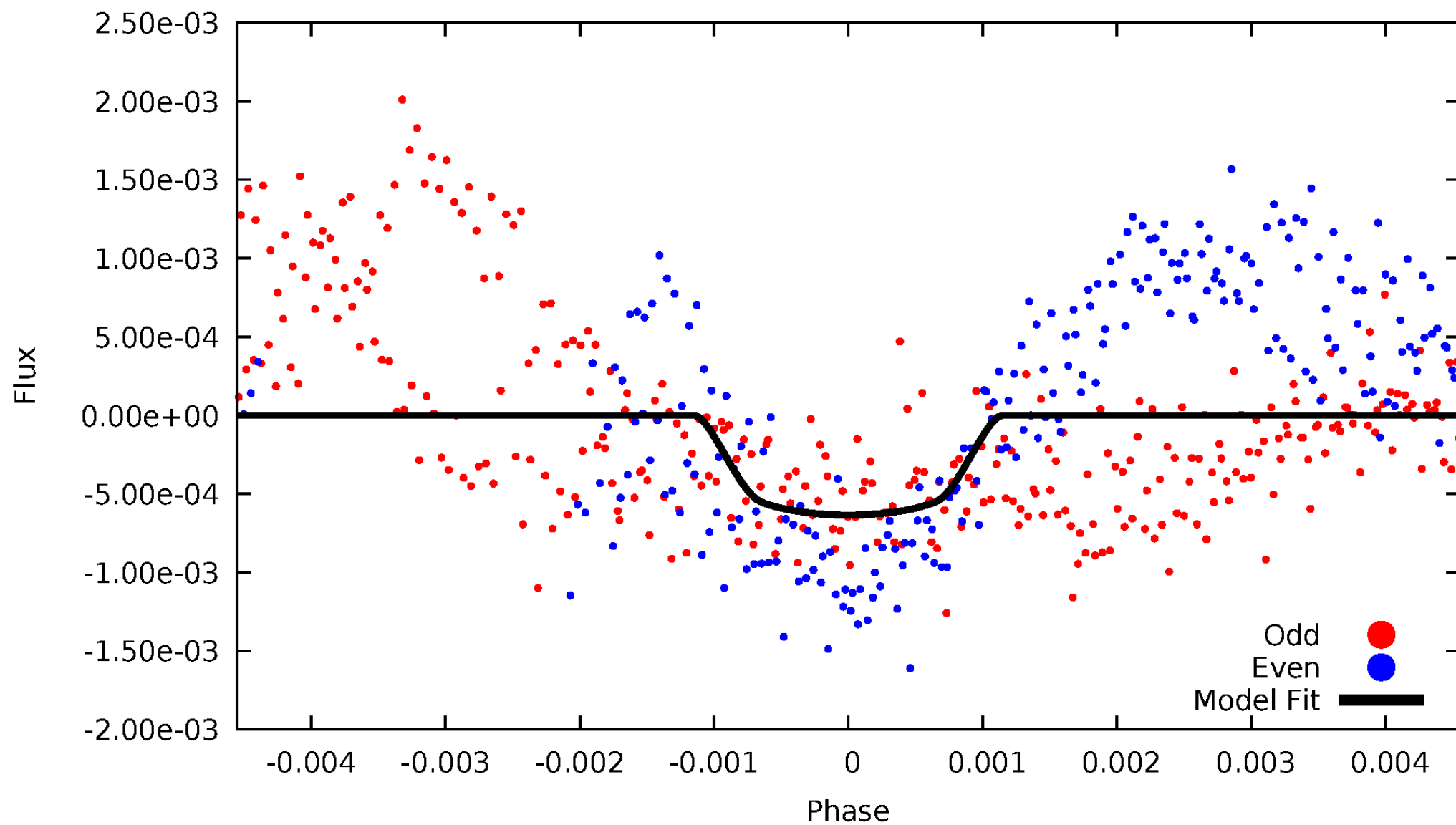


TCE 007903192-01



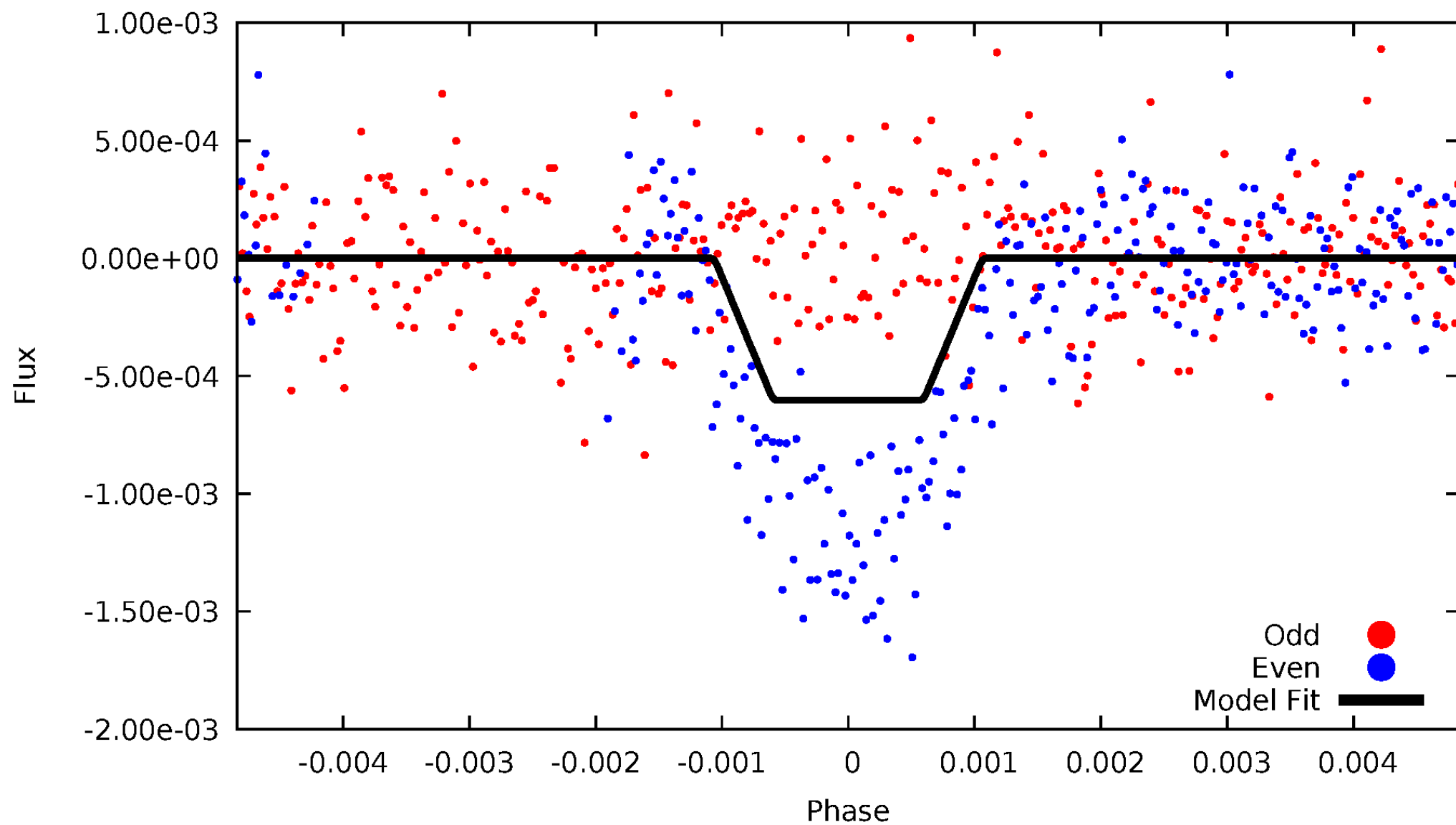
DV Odd/Even

TCE 007903192-01



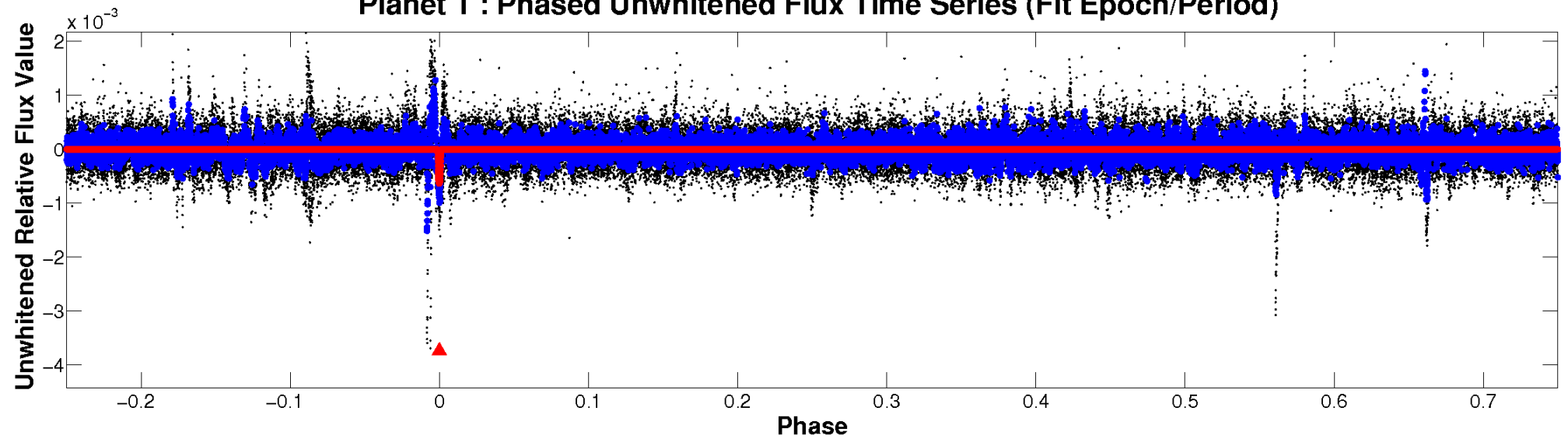
ALT Odd/Even

TCE 007903192-01

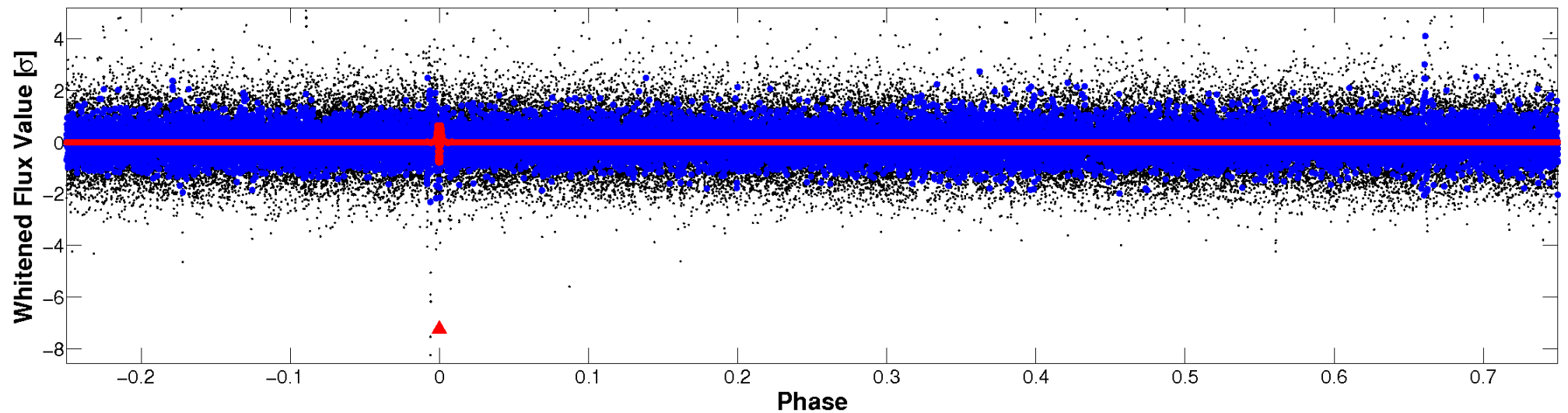


Non-Whitened Vs. Whitened Light Curve

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

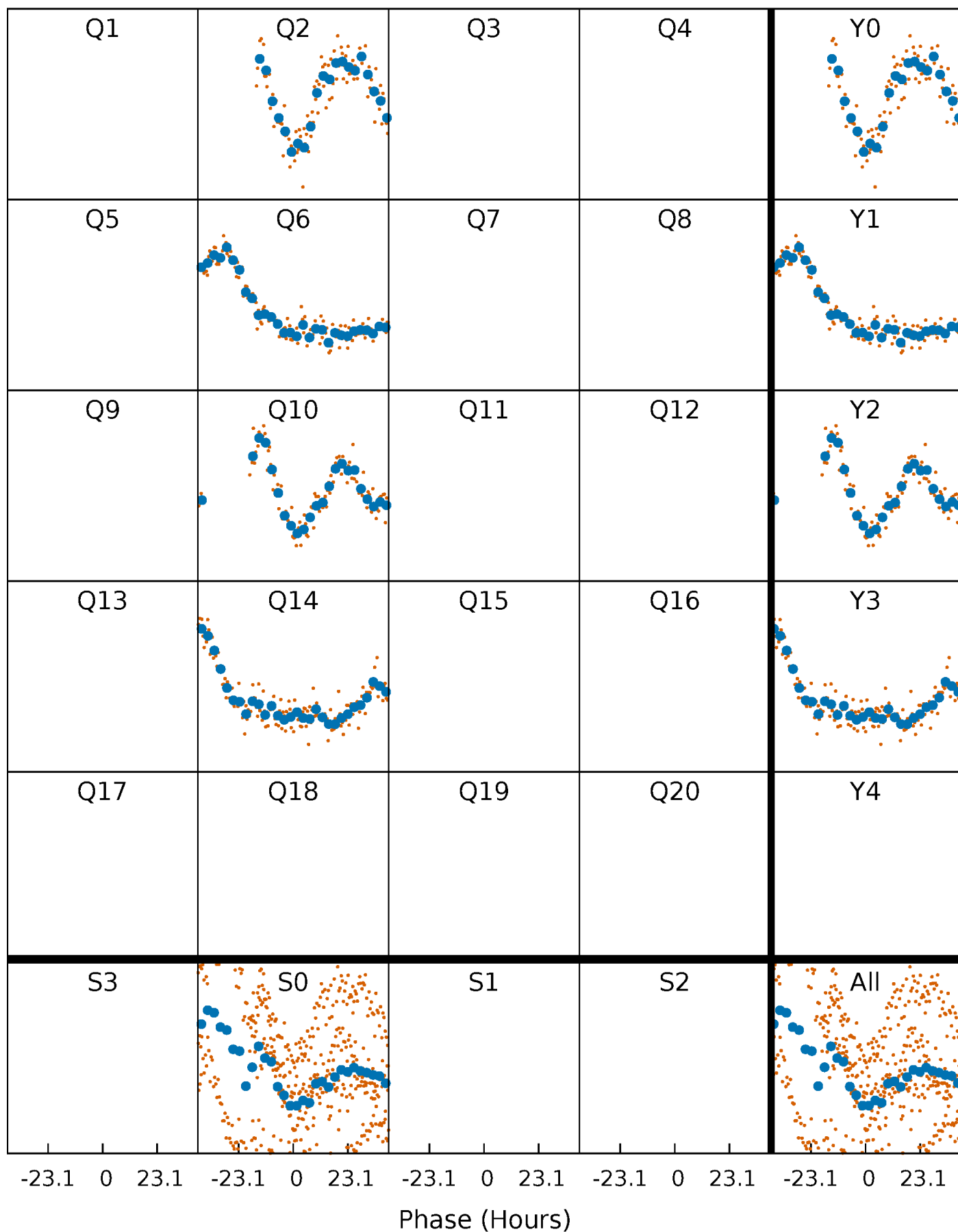


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



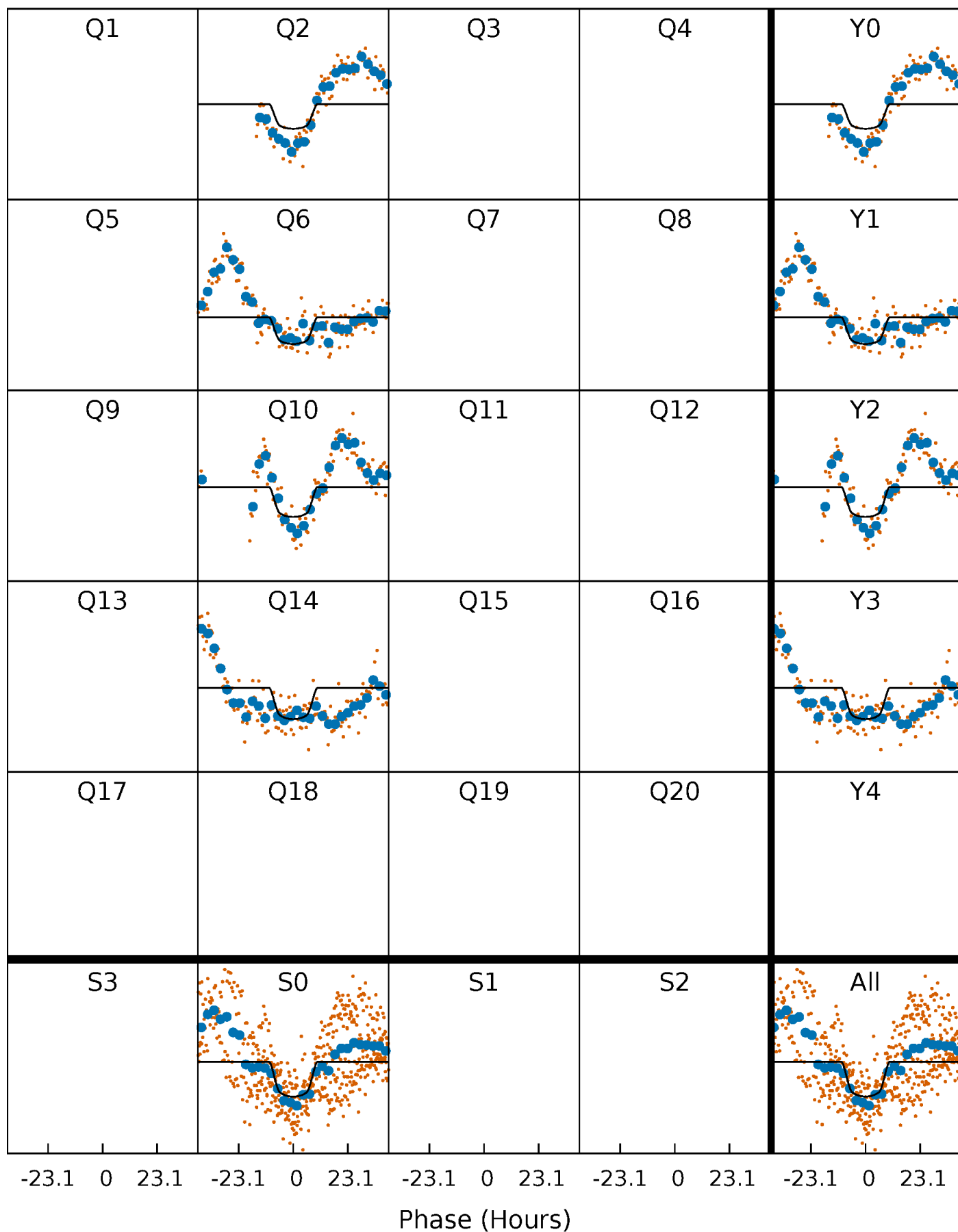
PDC Quarter-Phased Transit Curves

TCE 007903192-01 P=369.406130 Days $T_0=232.041351$ (BKJD)



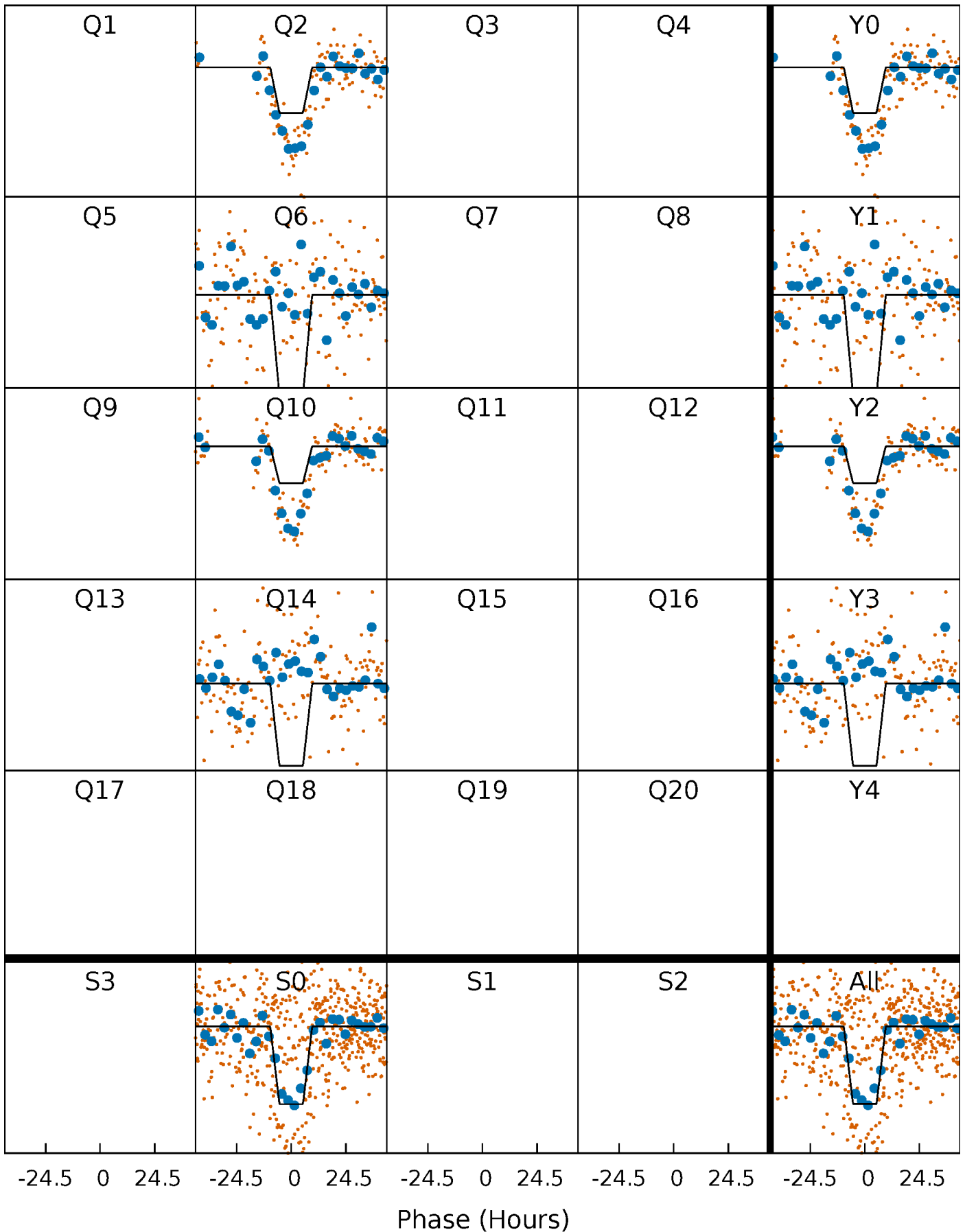
DV Quarter-Phased Transit Curves

TCE 007903192-01 P=369.406130 Days $T_0=232.041351$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

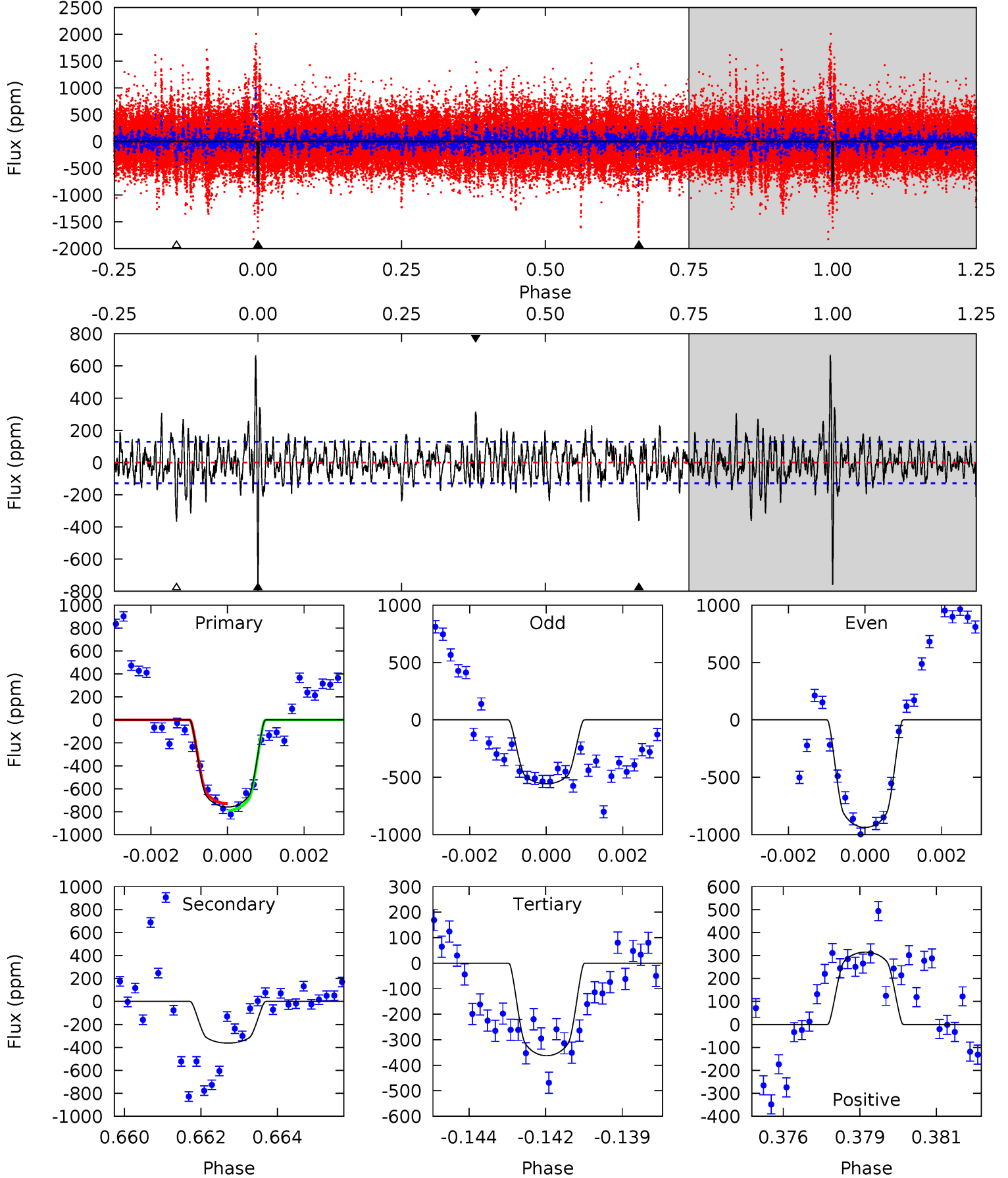
TCE 007903192-01 P=369.384275 Days $T_0=232.023943$ (BKJD)



DV Model-Shift Uniqueness Test

007903192-01, P = 369.406130 Days, E = 232.041351 Days

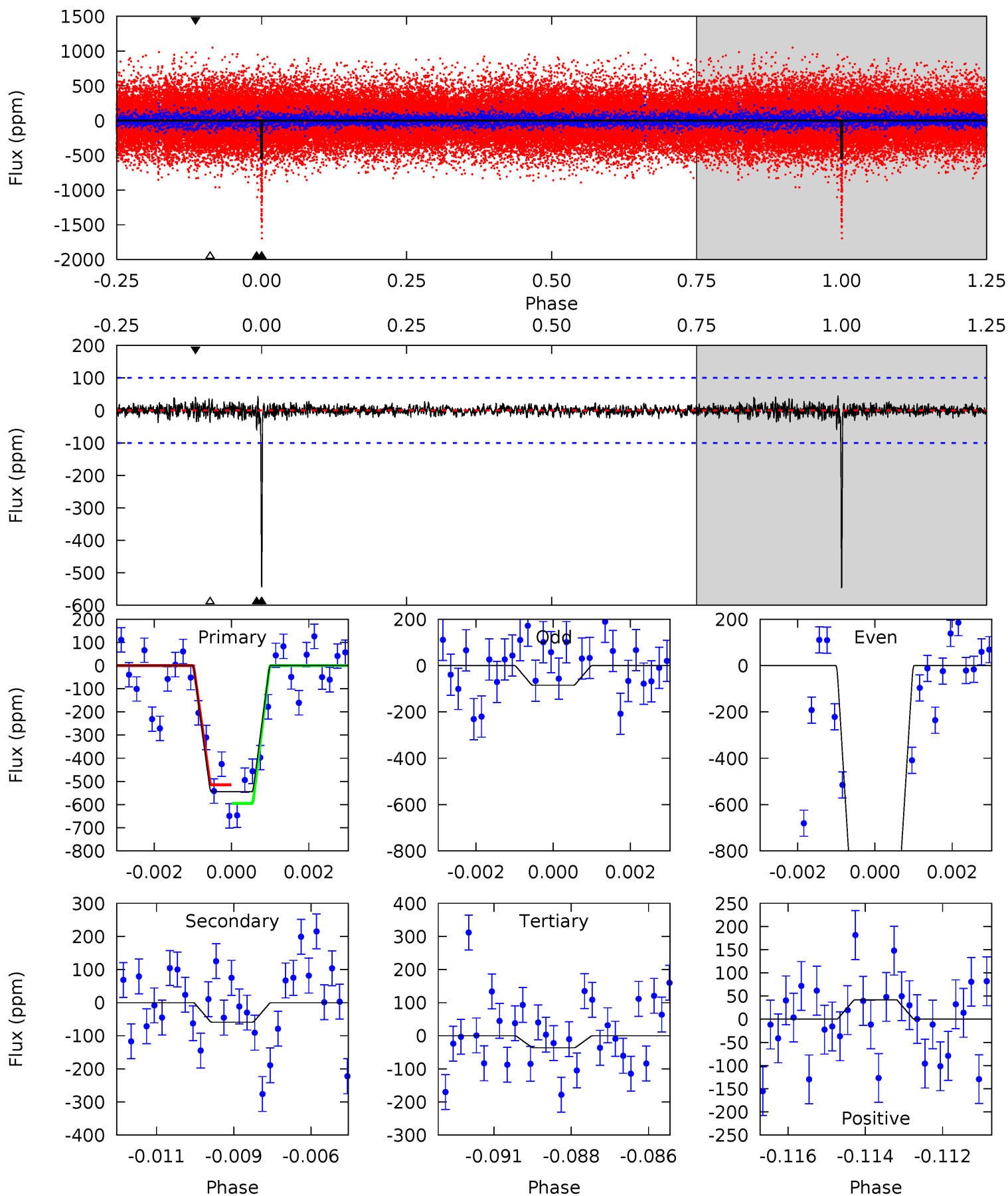
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.2	14.9	14.9	13.0	5.30	3.05	3.81	16.3	18.3	0.00	1.96	7.65	1.05	0.47	1.24



Alt Model-Shift Uniqueness Test

007903192-01, P = 369.384275 Days, E = 232.023943 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.8	3.12	1.92	2.23	5.31	3.07	0.51	26.9	26.6	1.20	0.90	28.5	1.05	0.07	2.11



Stellar Parameters For KIC 007903192

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5351^{+175}_{-159}	$4.466^{+0.126}_{-0.252}$	$-0.220^{+0.350}_{-0.250}$	$0.850^{+0.204}_{-0.110}$	$0.770^{+0.122}_{-0.052}$	$1.769^{+0.901}_{-0.906}$
	+3%/-3%	+3%/-6%	+159%/-114%	+24%/-13%	+16%/-7%	+51%/-51%
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 007903192-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-363 ± 24	$2.79^{+0.48}_{-0.39}$	320^{+25}_{-18}	4489^{+224}_{-197}	22244^{+7230}_{-5880}
Alt.	-59 ± 19	$2.34^{+0.47}_{-0.32}$	320^{+27}_{-18}	3462^{+215}_{-240}	4882^{+2766}_{-1826}

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 $A_{obs} \gg 1.0$

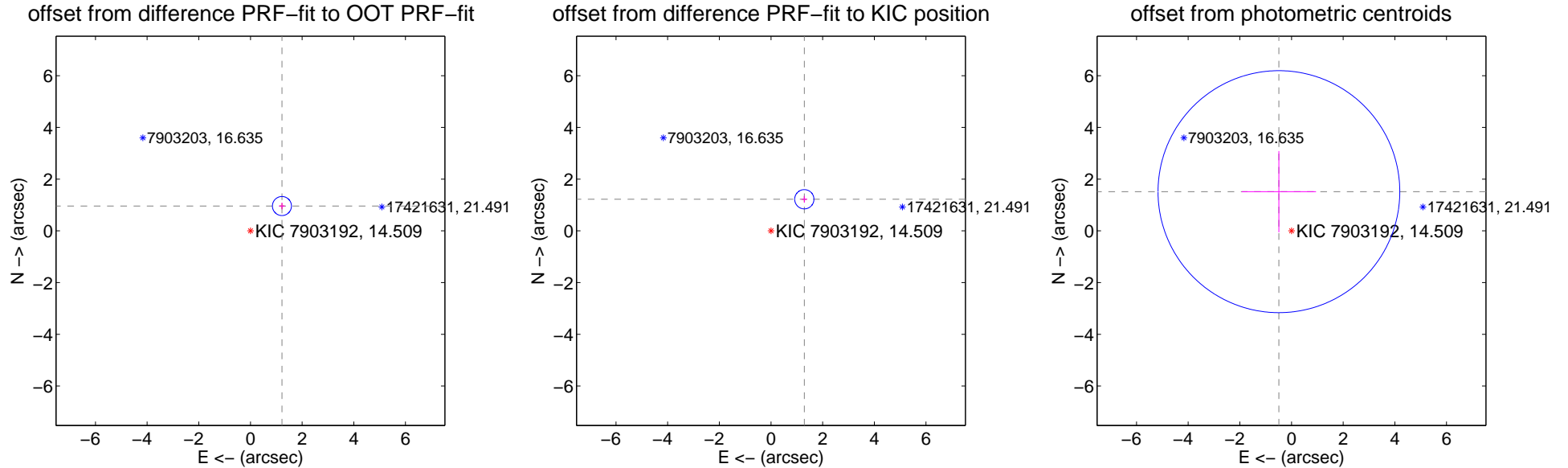
DV Centroid Data

Supplemental centroid analysis for 007903192-01. Kepler magnitude: 14.51. Transit SNR 9.26

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.551 ± 0.123	12.63	-1.218 ± 0.116	0.960 ± 0.132
PRF-fit source offset from KIC position	1.777 ± 0.124	14.31	-1.290 ± 0.116	1.223 ± 0.132
photometric centroid source offset	1.59 ± 1.56	1.02	0.49 ± 1.44	1.52 ± 1.57



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.



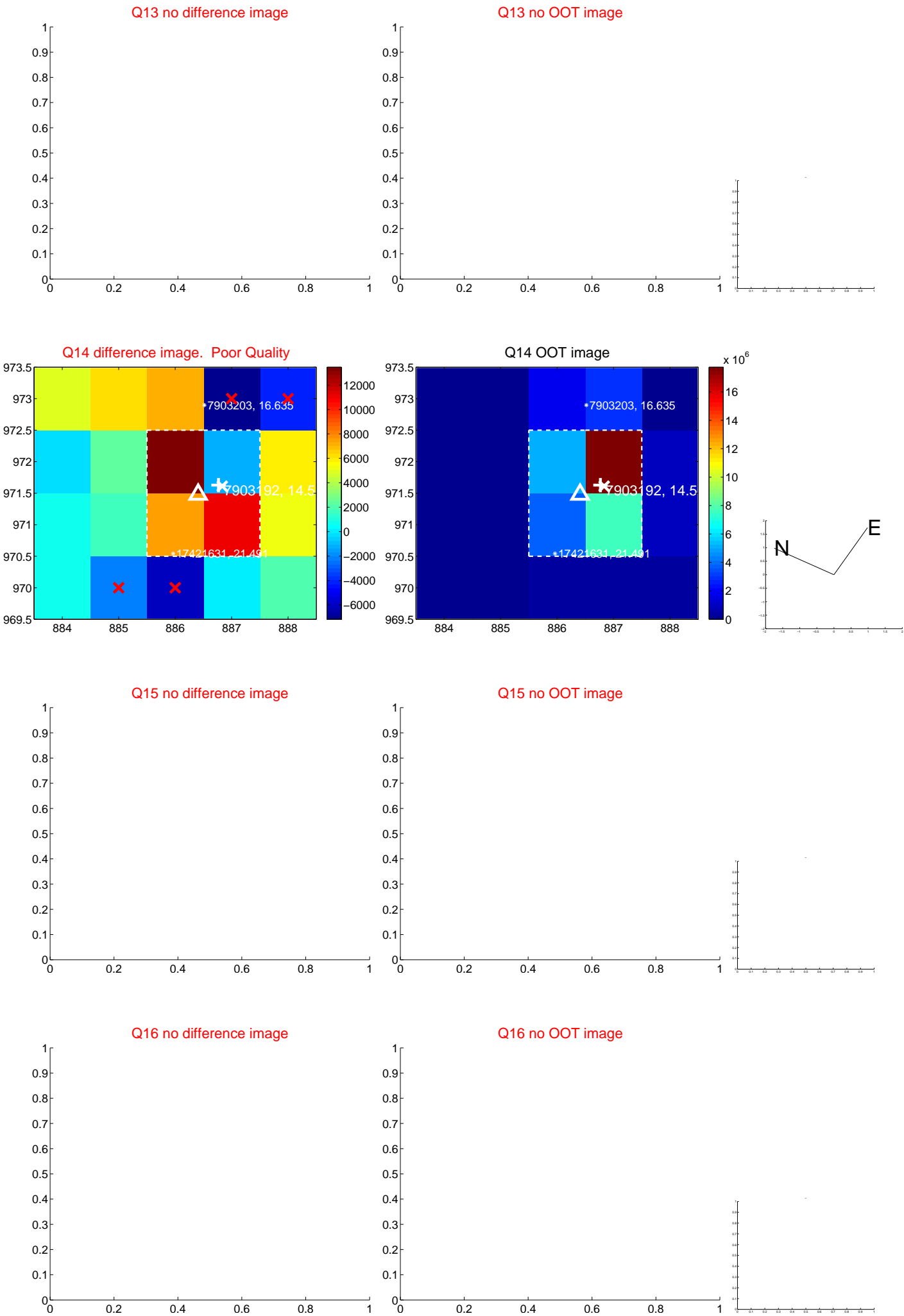
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



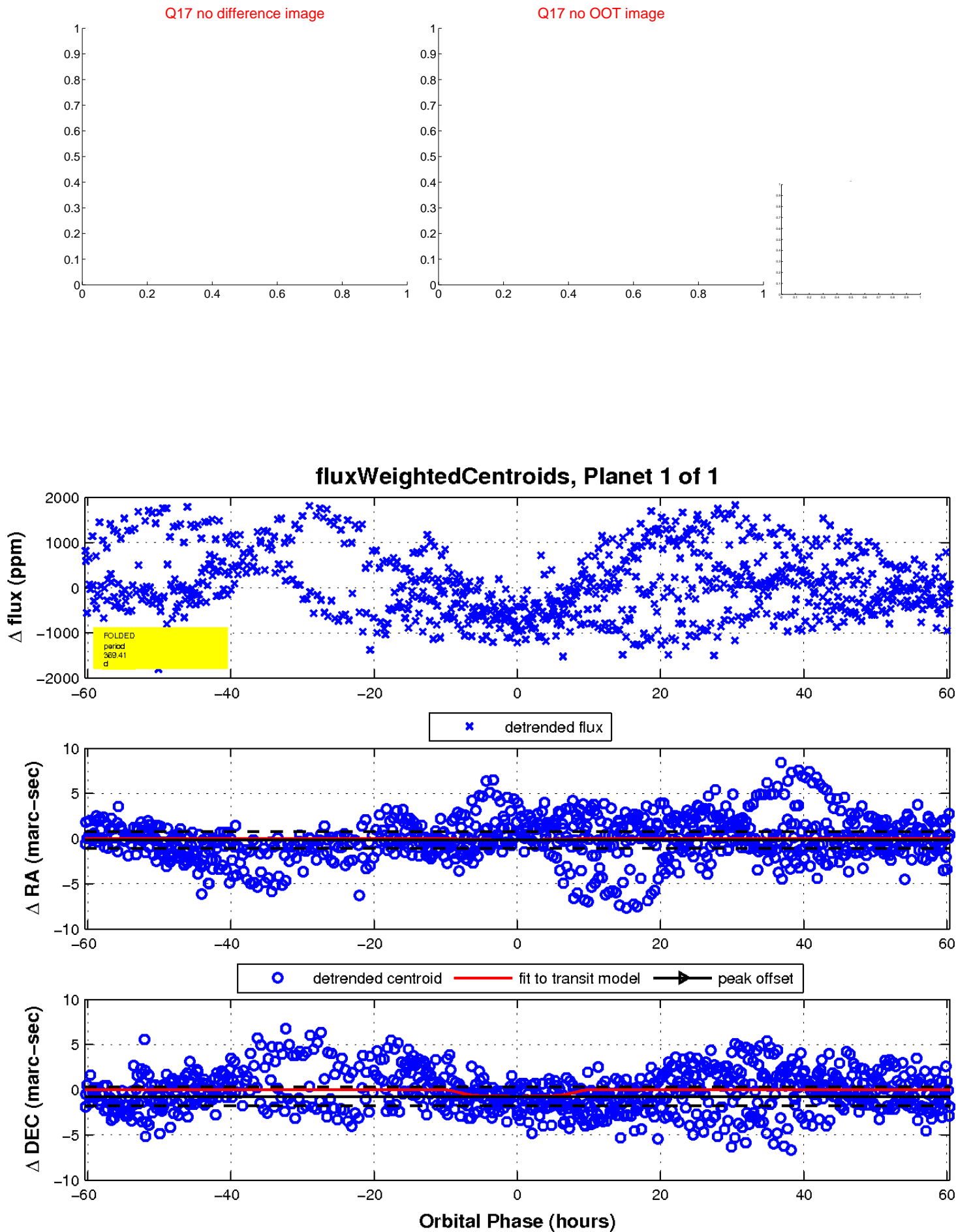
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

