

KIC 006343190

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})
006343190-01	OBS	No	461.330131	222.225564	681.3	11.274	7.8	8.0	0.85	5401	2.40	0.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006343190-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—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.

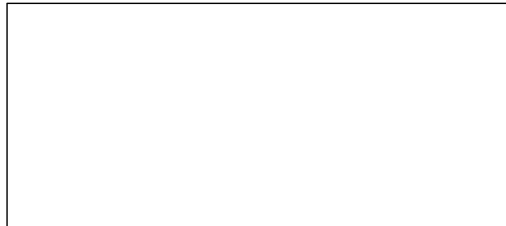
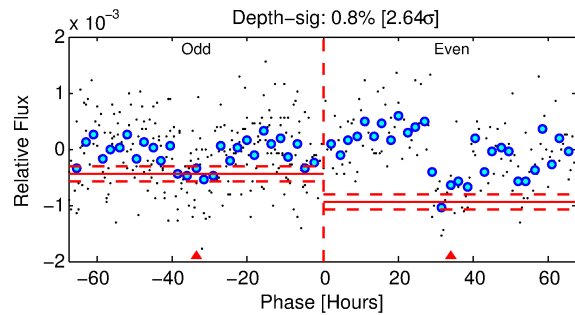
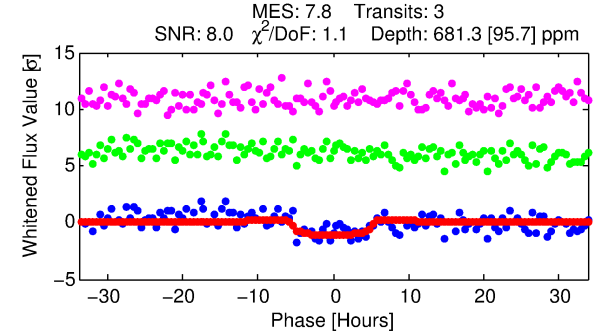
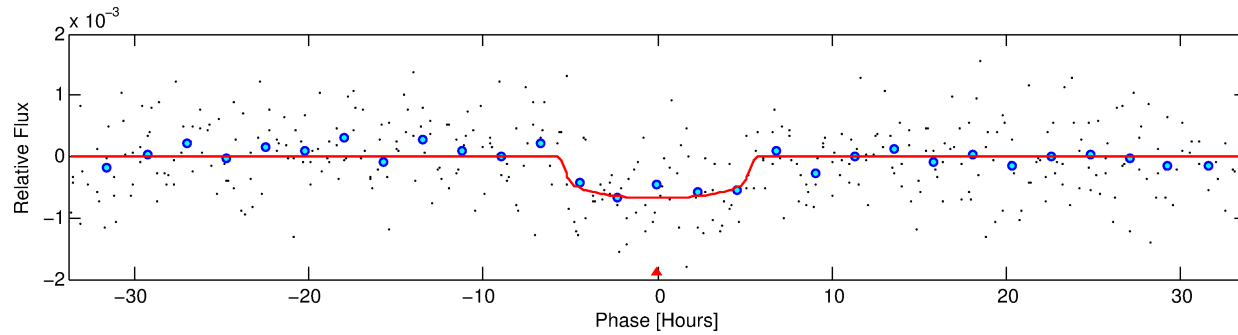
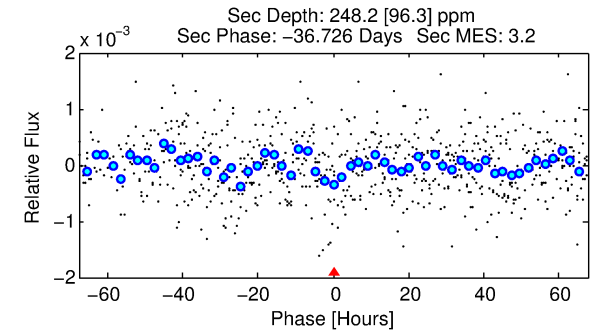
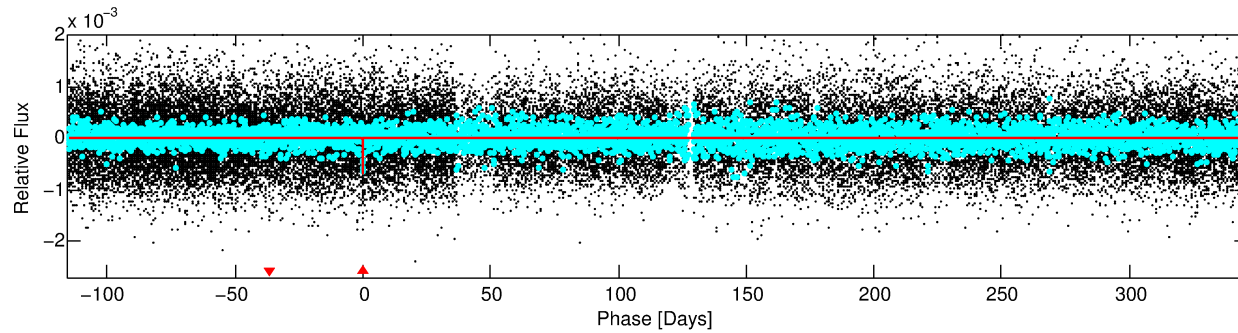
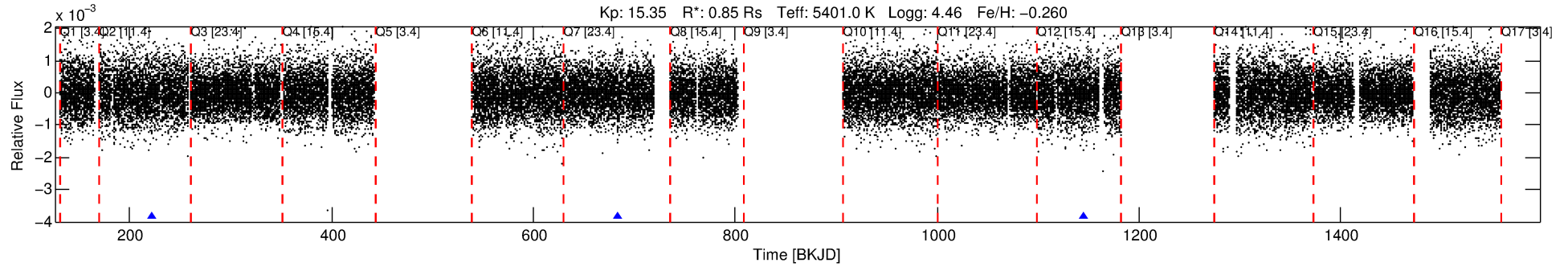
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006343190-01

No Significant Match Found

DV One-Page Summary

KIC: 6343190 Candidate: 1 of 1 Period: 461.330 d



DV Fit Results:

Period = 461.33013 [0.01863] d
Epoch = 222.2256 [0.0241] BKJD
Rp/R* = 0.0258 [0.0118]
a/R* = 224.64 [419.63]
b = 0.73 [1.19]
Seff = 0.48 [0.13]
Teq = 212 [14] K
Rp = 2.40 [1.17] Re
a = 1.0723 [0.1644] AU
Ag = 27262.96 [27817.95] [0.98σ]
Teffp = 4219 [1055] K [3.80σ]

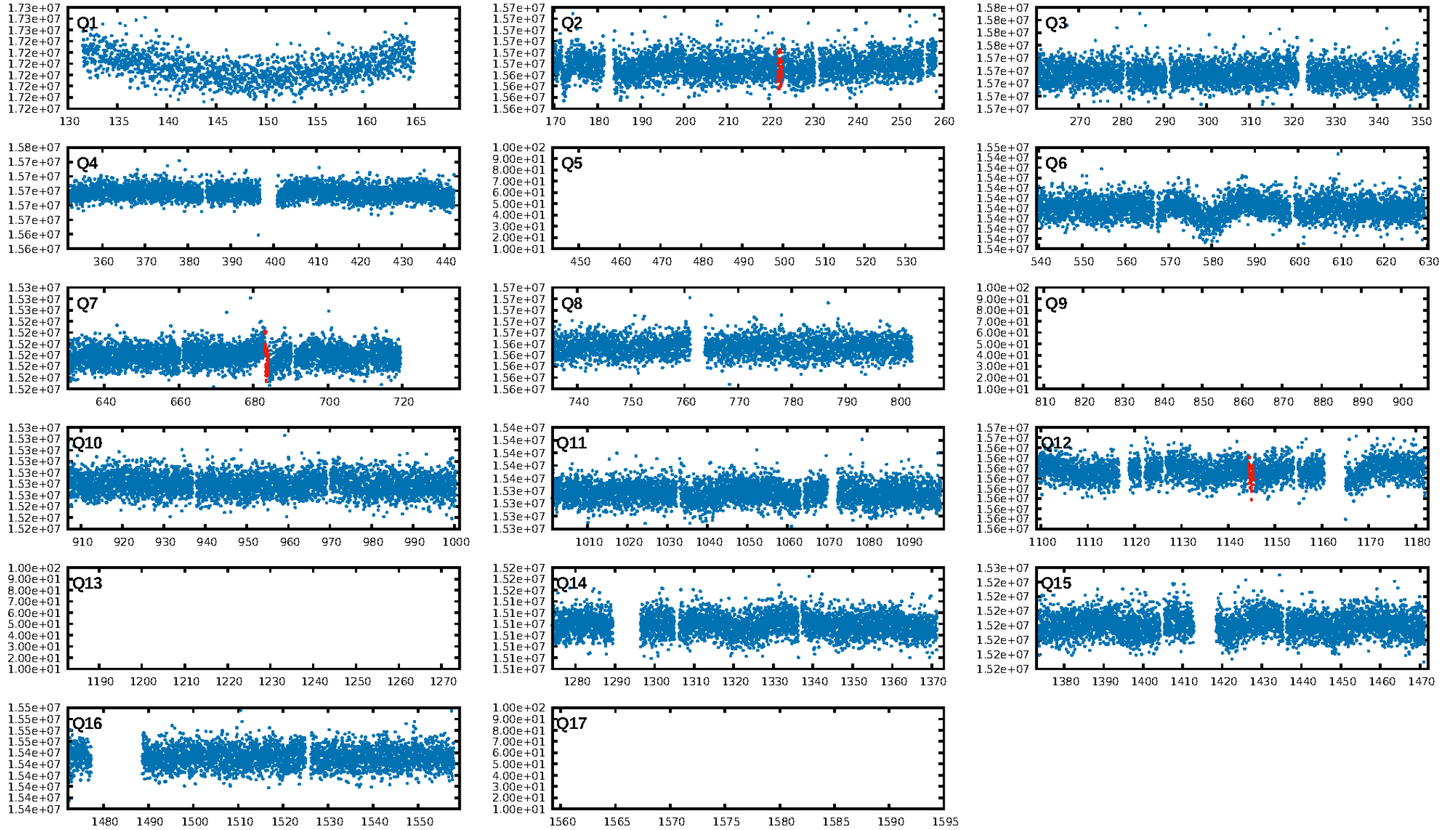
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 3.4%
ModelChiSquareGof-sig: 99.1%
Bootstrap-pfa: 8.63e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 10.57
Centroid-sig: 7.6%
Centroid-so: 2.789 arcsec [1.65σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [3/3]

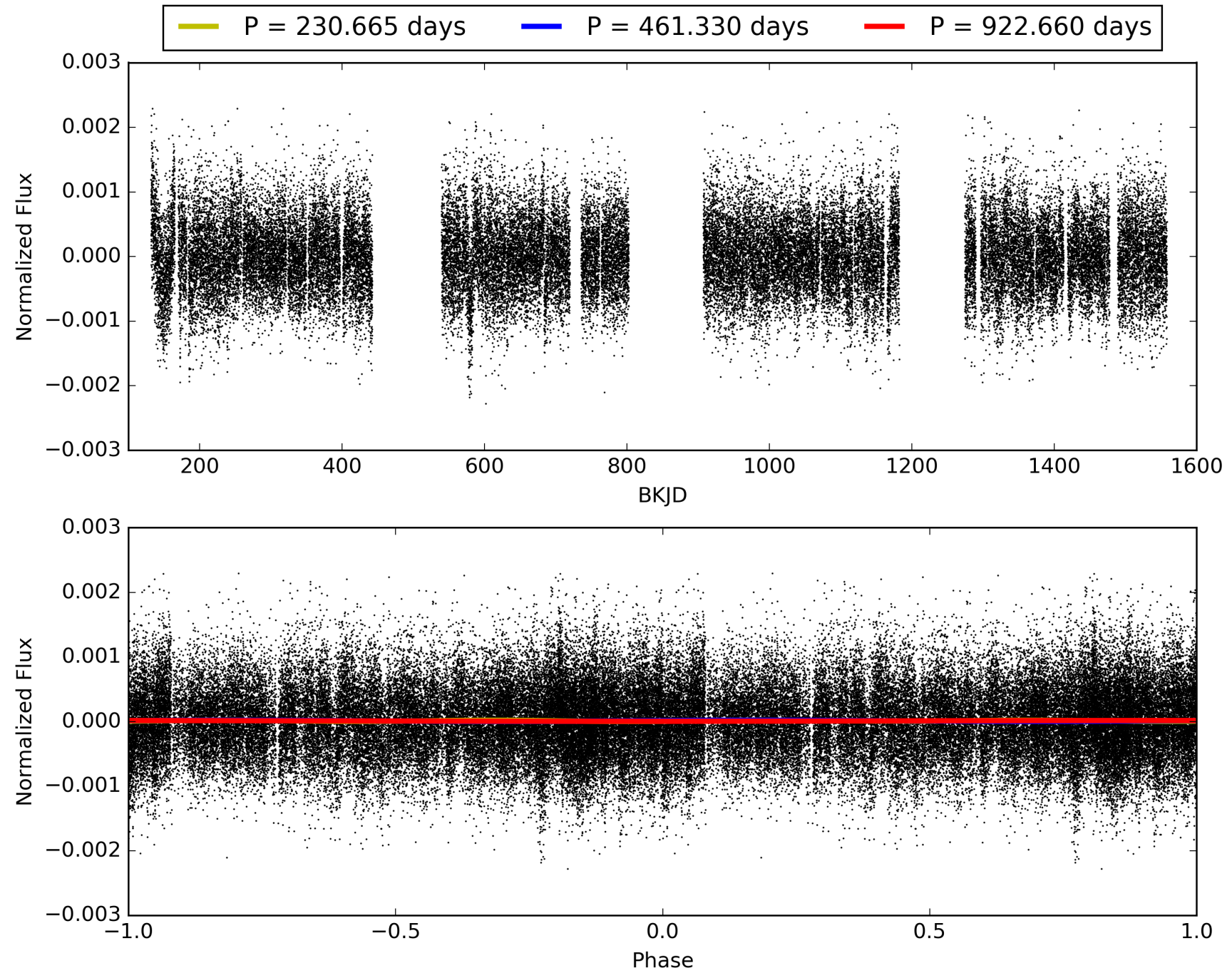
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:36:45 Z

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

TCE 006343190-01, PDC Light Curves

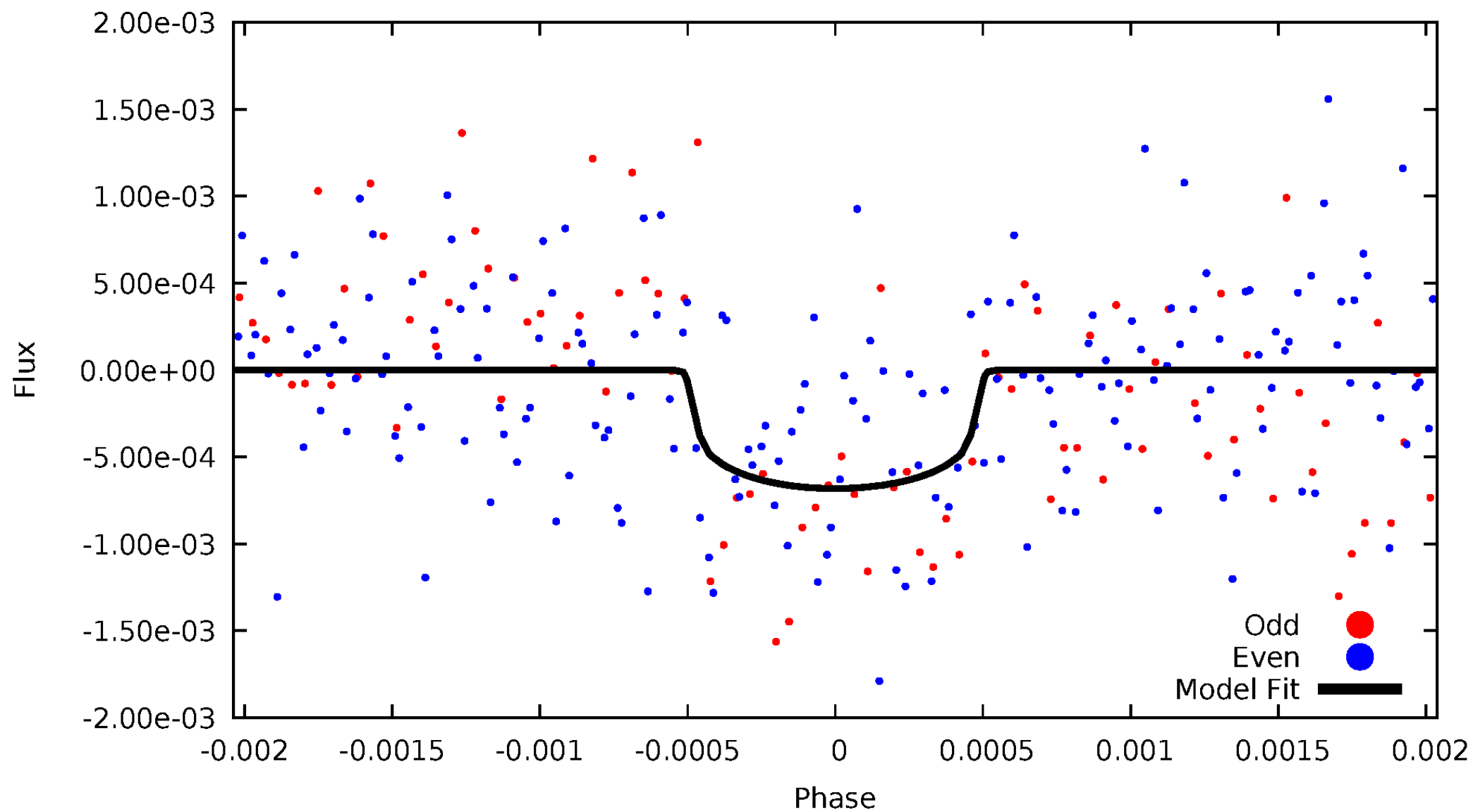


TCE 006343190-01



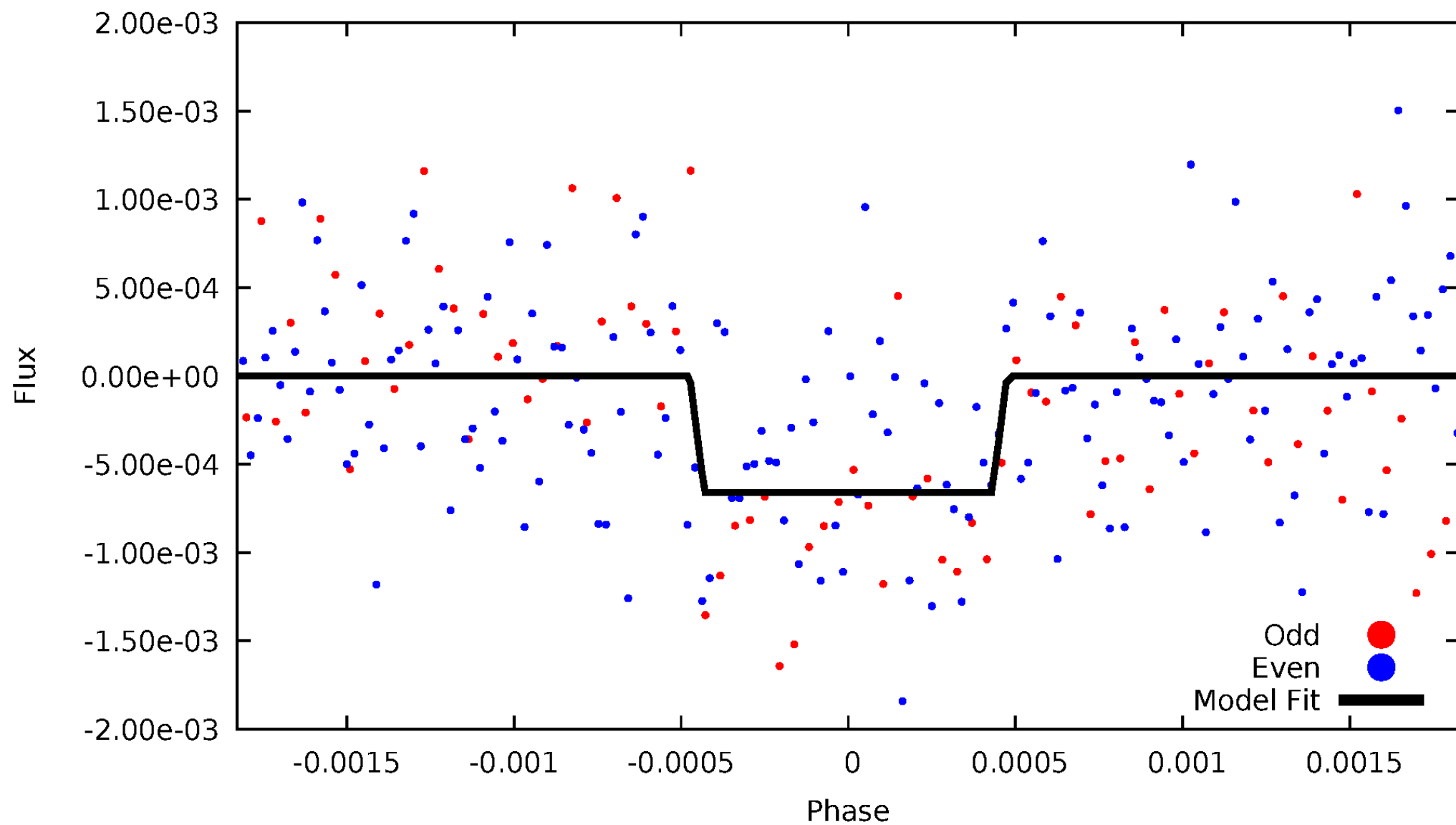
DV Odd/Even

TCE 006343190-01



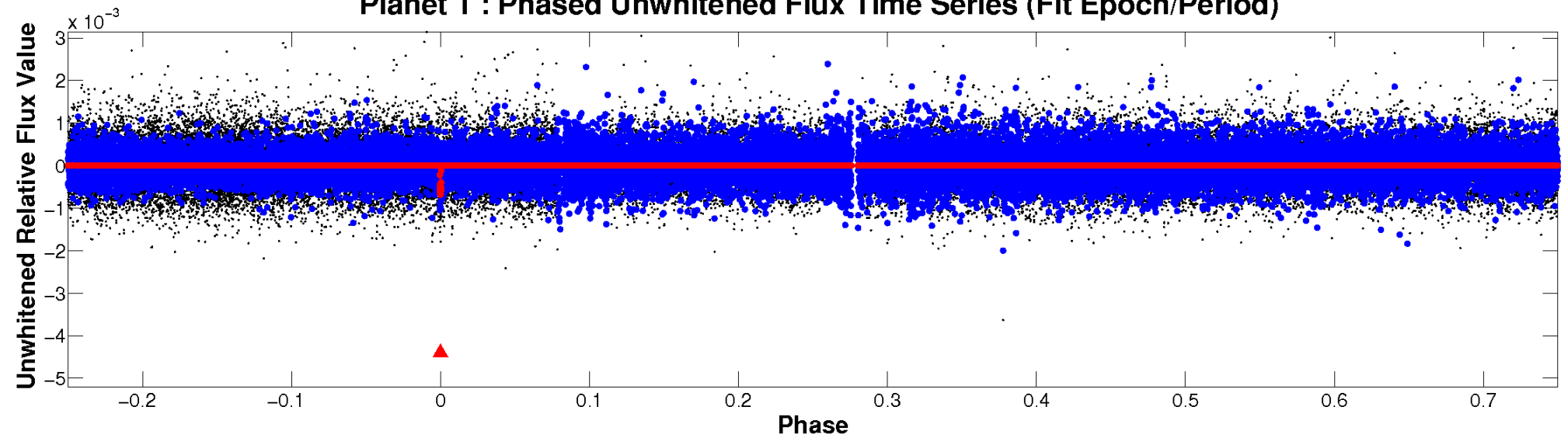
ALT Odd/Even

TCE 006343190-01

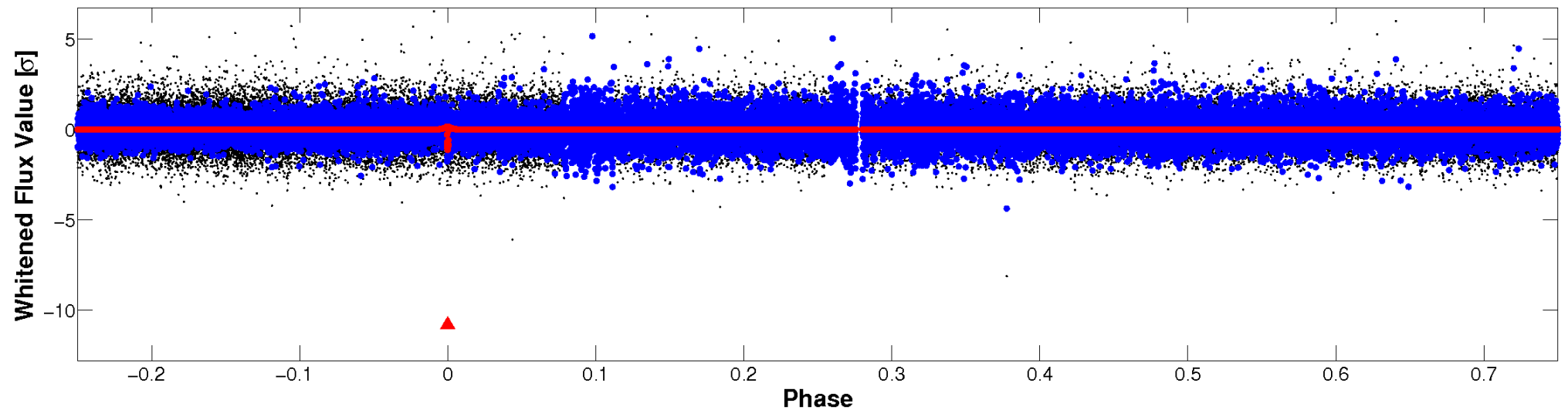


Non-Whitened Vs. Whitened Light Curve

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

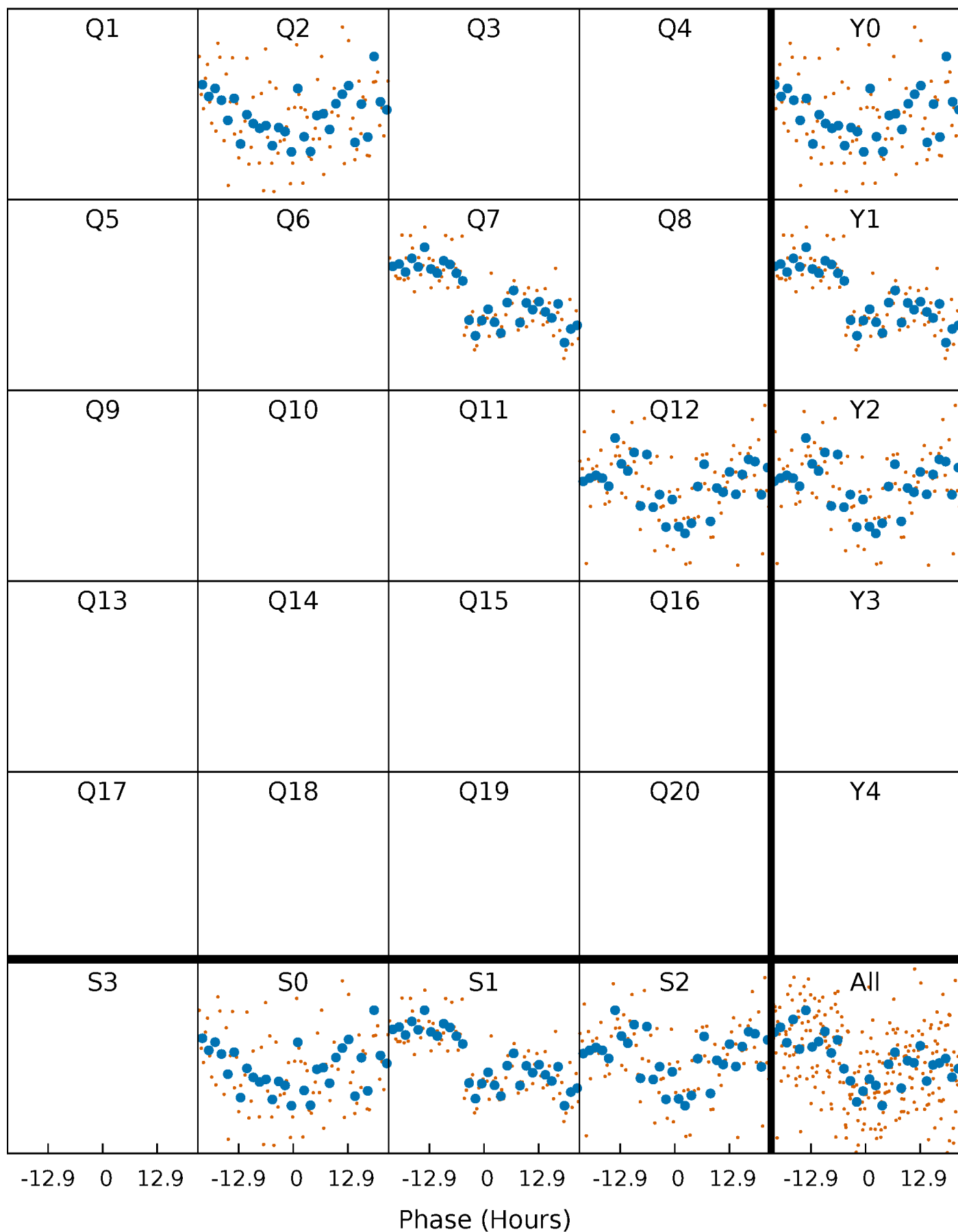


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



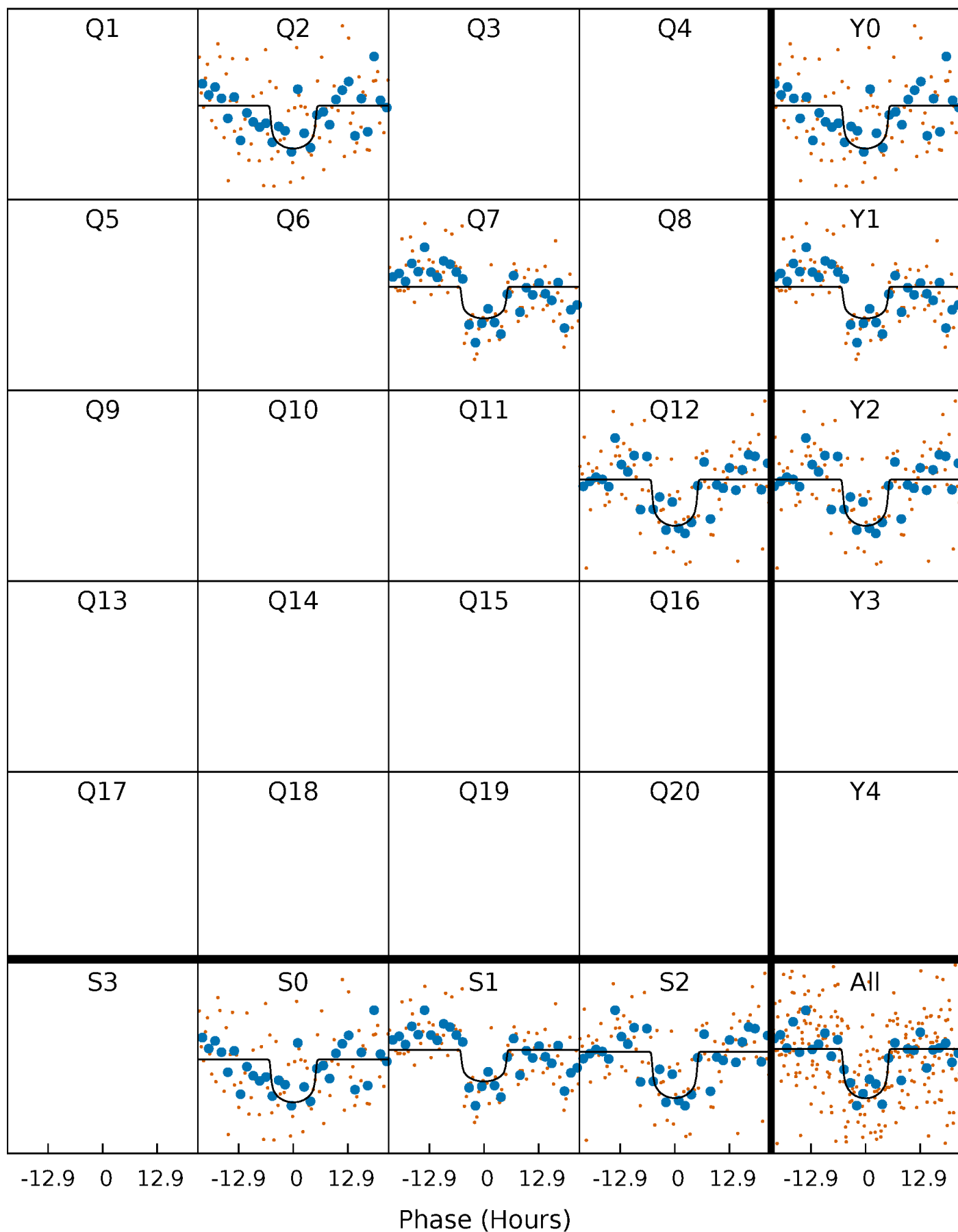
PDC Quarter-Phased Transit Curves

TCE 006343190-01 P=461.330131 Days $T_0=222.225564$ (BKJD)



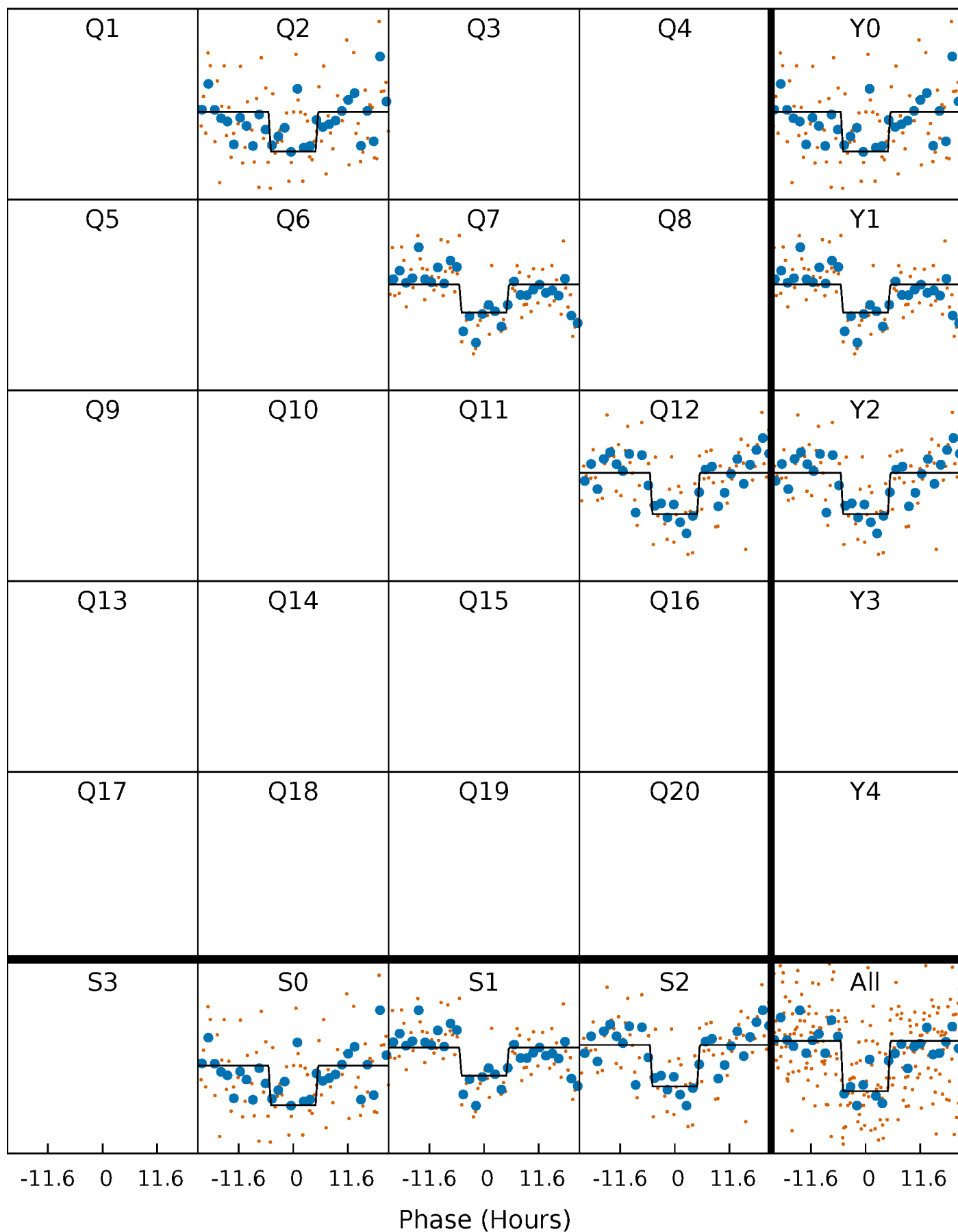
DV Quarter-Phased Transit Curves

TCE 006343190-01 P=461.330131 Days $T_0=222.225564$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

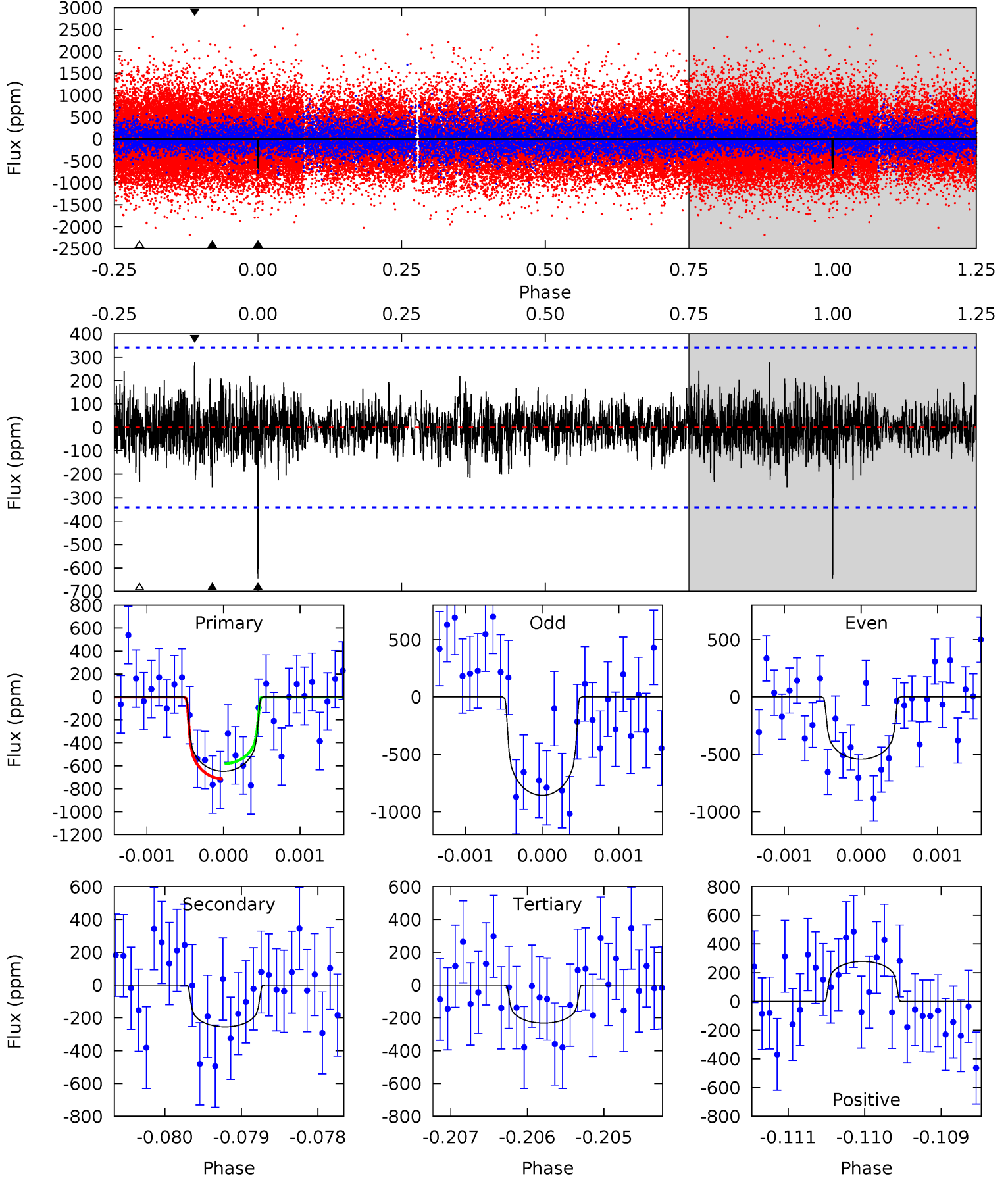
TCE 006343190-01 P=461.321673 Days $T_0=222.236624$ (BKJD)



DV Model-Shift Uniqueness Test

006343190-01, P = 461.330131 Days, E = 222.225564 Days

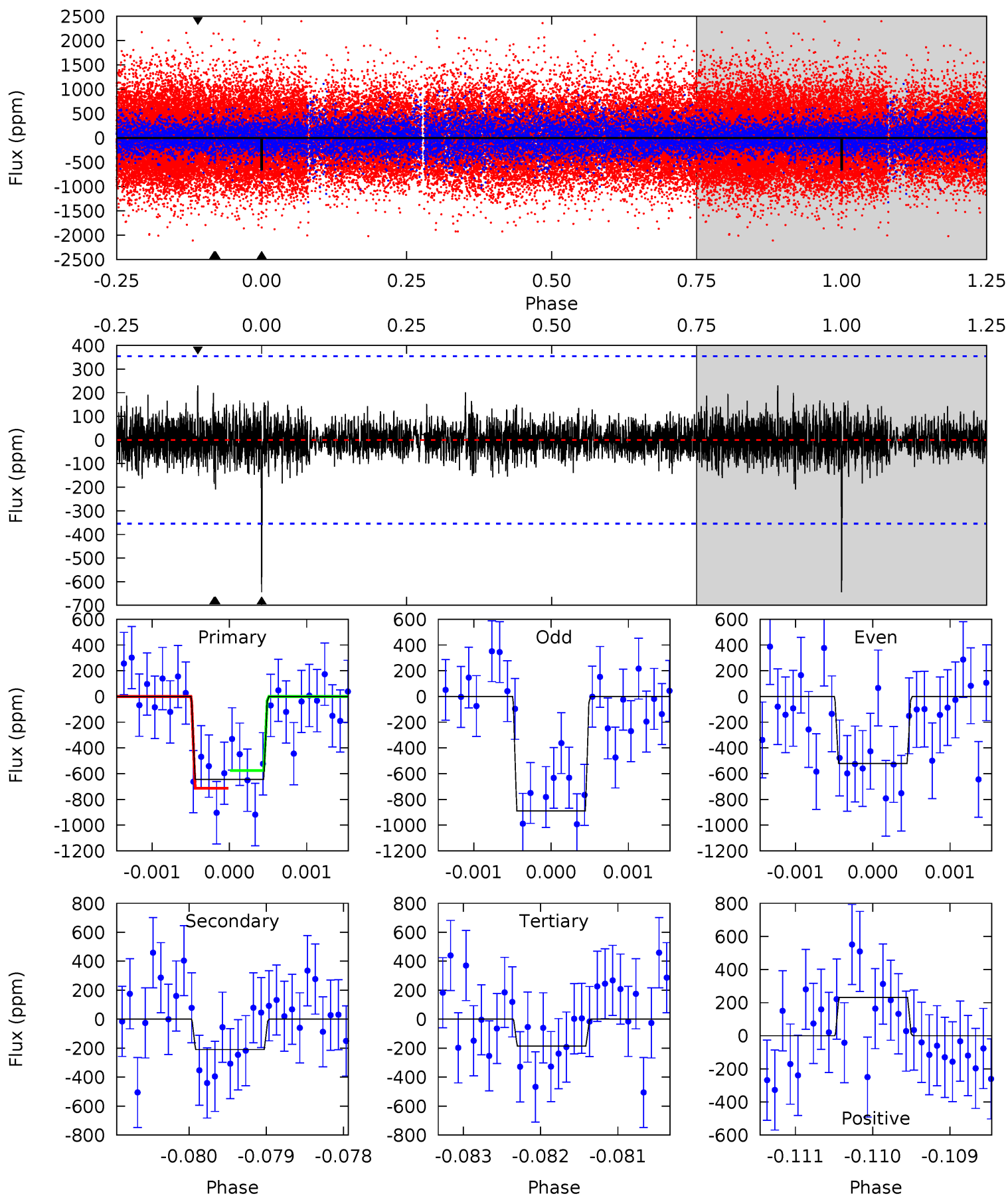
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	4.07	3.69	4.43	5.44	3.27	1.07	6.62	5.88	0.37	-0.37	2.38	1.00	0.30	1.05



Alt Model-Shift Uniqueness Test

006343190-01, P = 461.321673 Days, E = 222.236624 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.92	3.23	2.85	3.56	5.46	3.30	0.78	7.07	6.36	0.37	-0.33	2.68	0.97	0.26	1.06



Stellar Parameters For KIC 006343190

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5401^{+159}_{-159}	$4.465^{+0.120}_{-0.132}$	$-0.260^{+0.300}_{-0.300}$	$0.852^{+0.147}_{-0.120}$	$0.771^{+0.113}_{-0.061}$	$1.759^{+0.958}_{-0.667}$
	+3%/-3%	+3%/-3%	+115%/-115%	+17%/-14%	+15%/-8%	+54%/-38%
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 006343190-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-255 ± 63	$2.44^{+1.20}_{-1.10}$	297^{+16}_{-15}	4381^{+1251}_{-578}	26516^{+62414}_{-14556}
Alt.	-210 ± 65	$2.44^{+1.18}_{-1.07}$	297^{+17}_{-15}	4207^{+1103}_{-608}	21082^{+46390}_{-12270}

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 006343190-01. Kepler magnitude: 15.35. Transit SNR 7.96

There are 0 quarters with good PRF difference image offsets

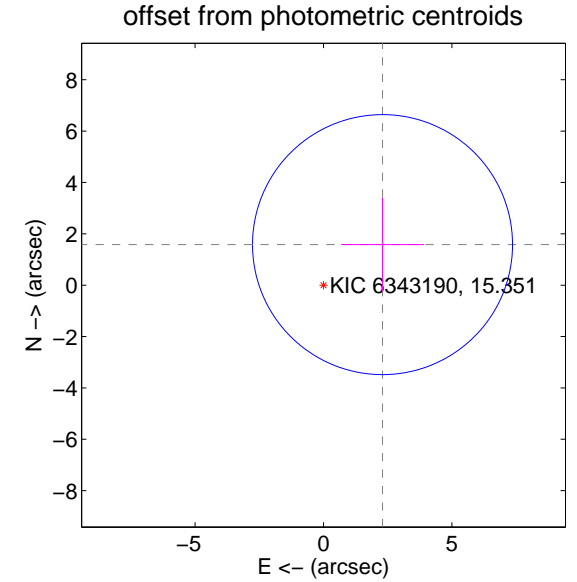
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	2.79 ± 1.69	1.65	-2.30 ± 1.62	1.58 ± 1.83

There is no PRF-fit offset from OOT-fit

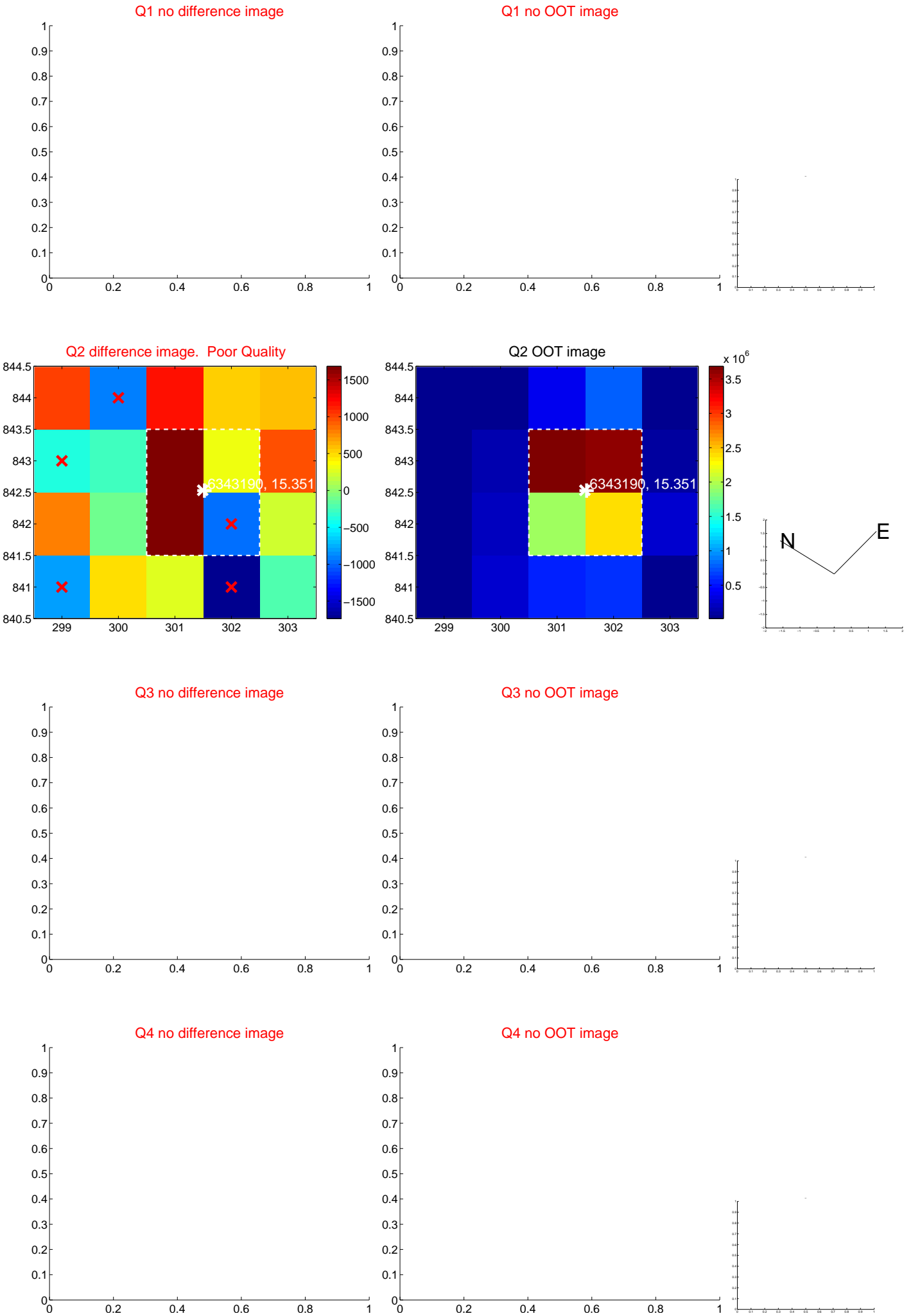


There is no PRF-fit offset from KIC

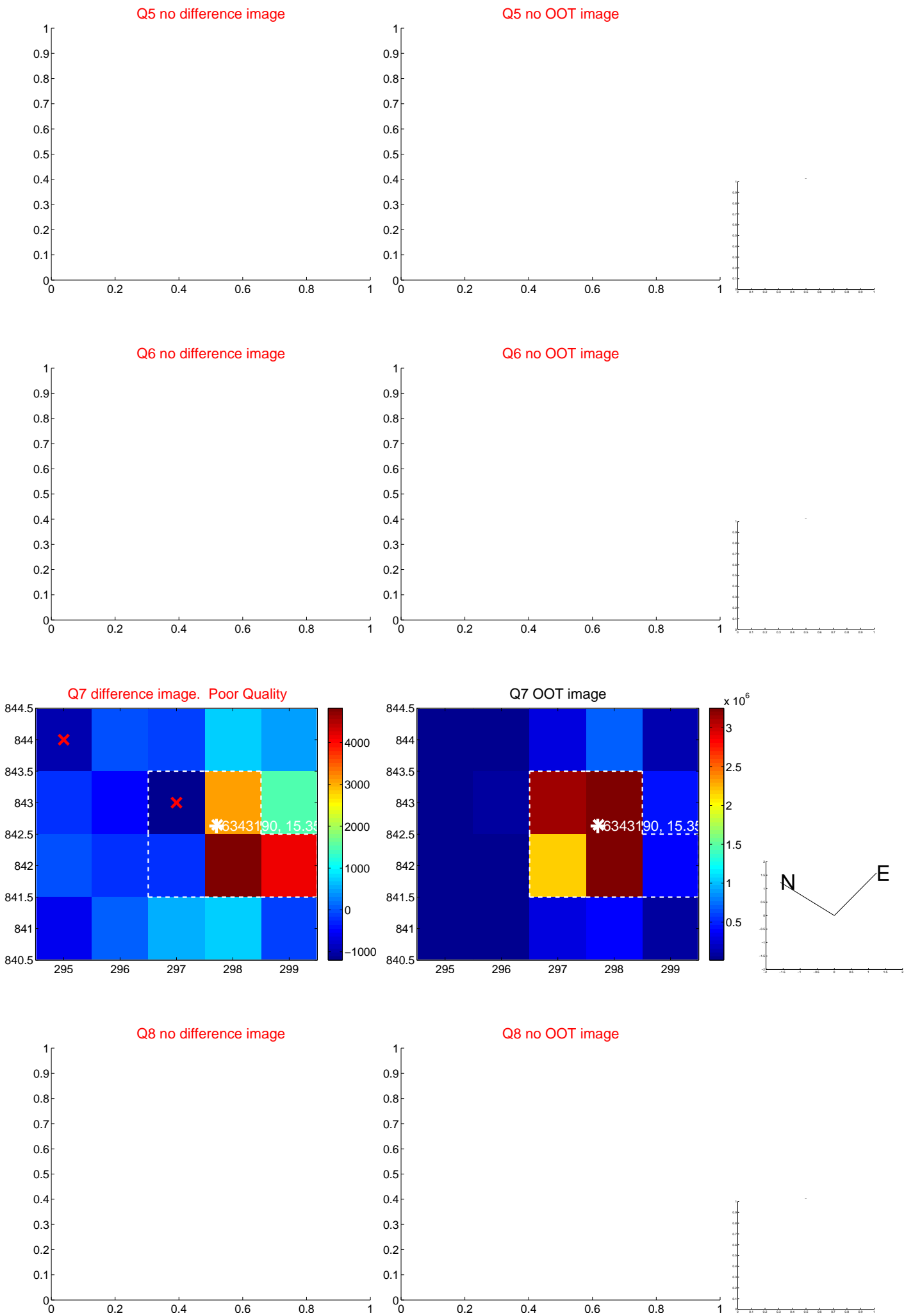


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

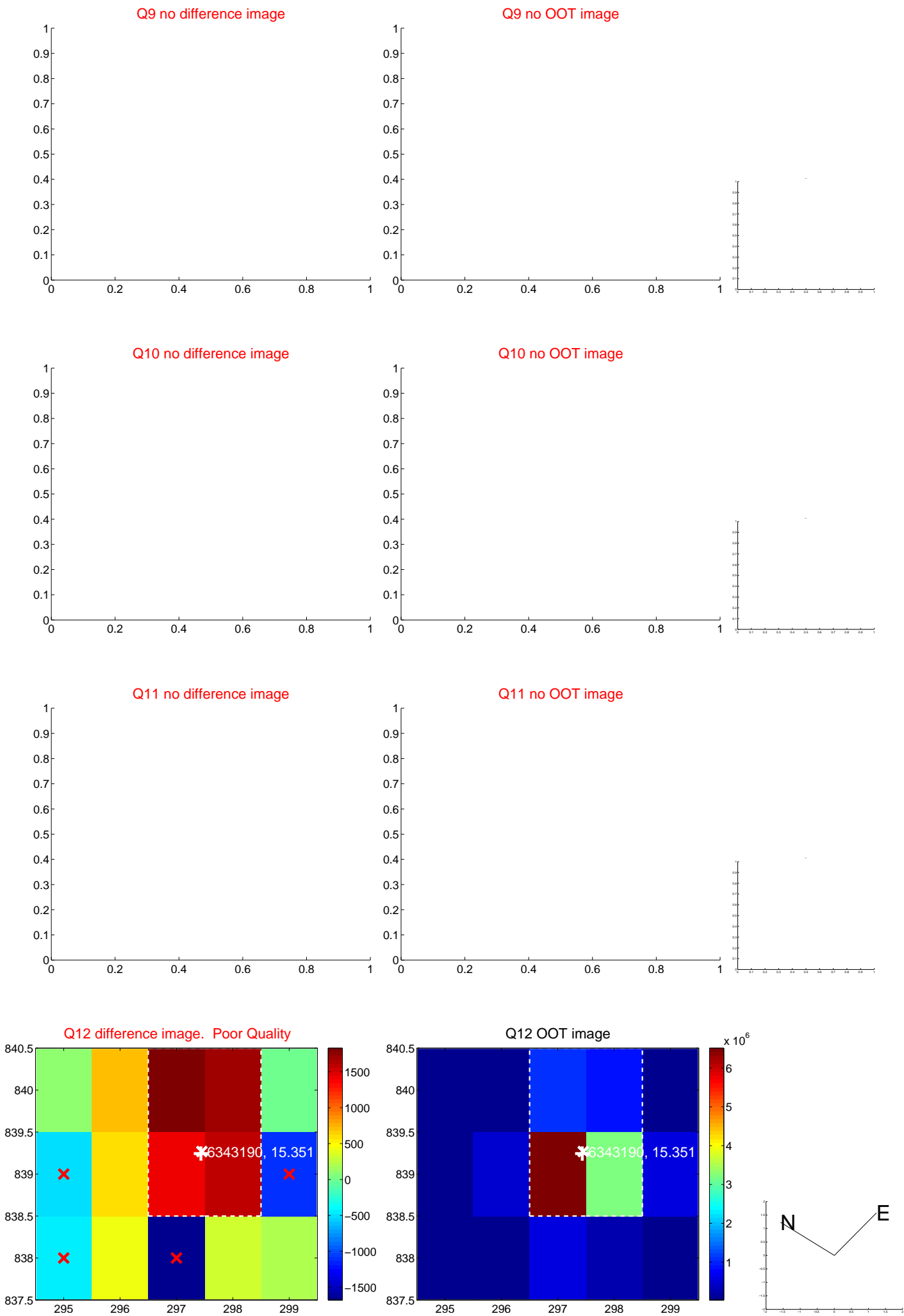
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



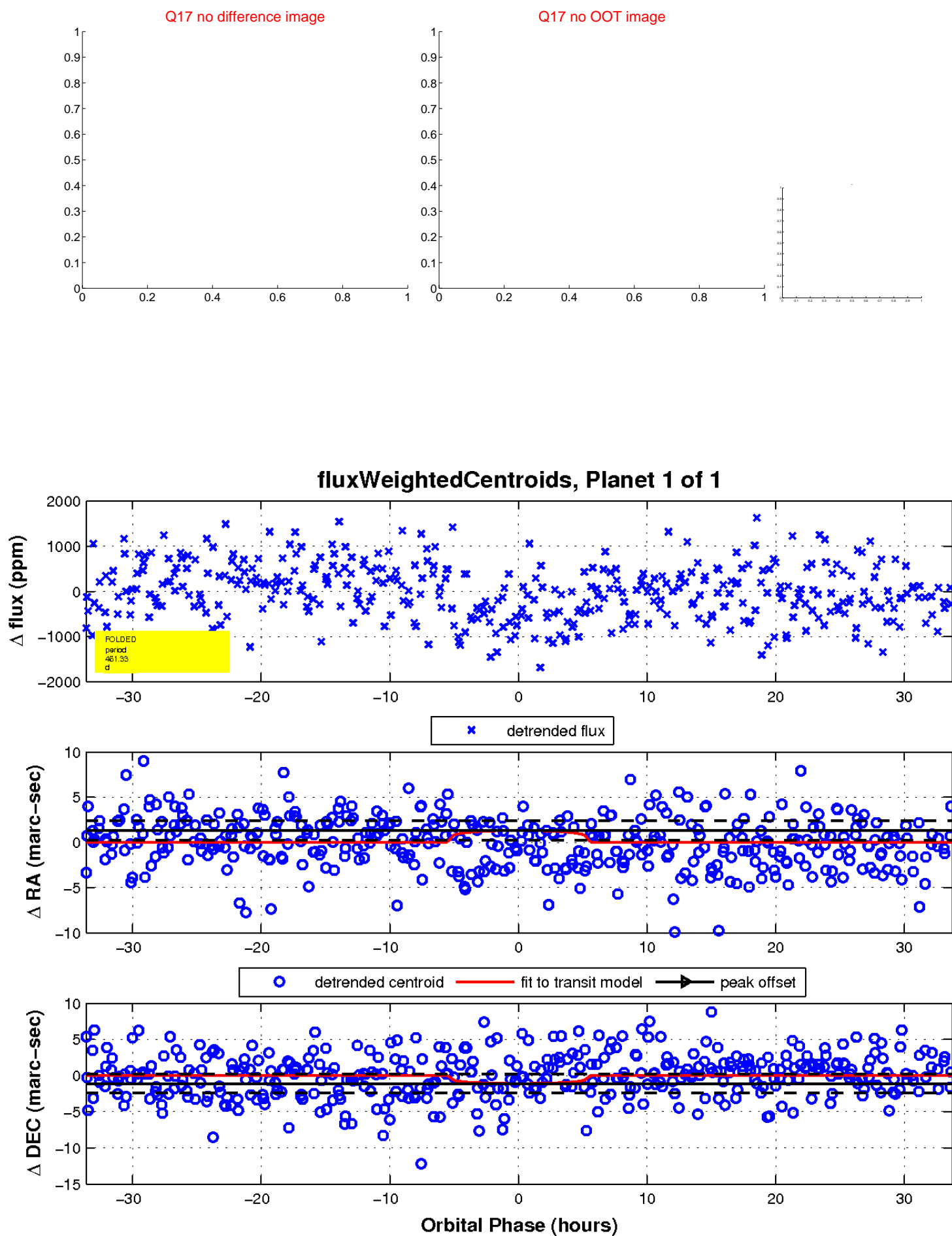
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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.



UKIRT Image

Declination

