

KIC 008295697

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})
008295697-01	OBS	No	346.352143	343.932901	832.6	25.325	10.2	10.6	0.79	5919	2.61	0.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008295697-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—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.

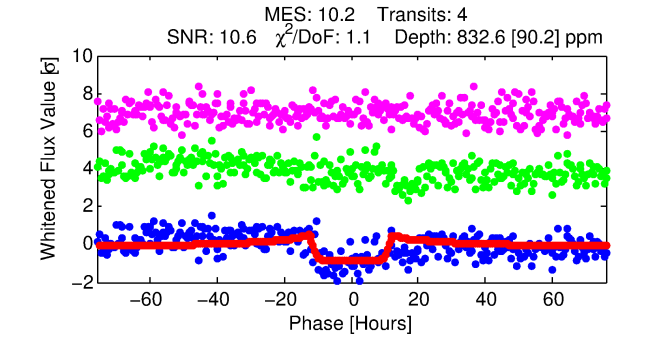
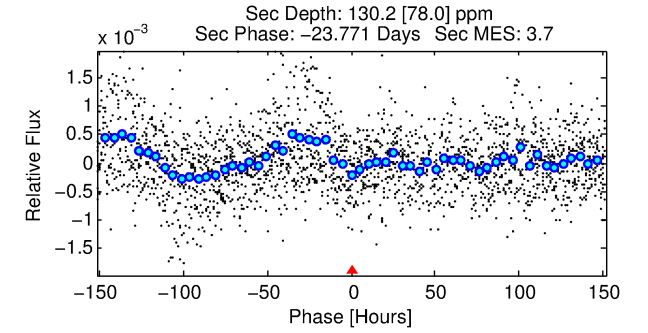
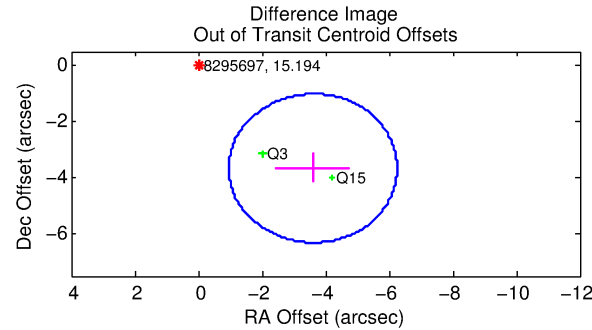
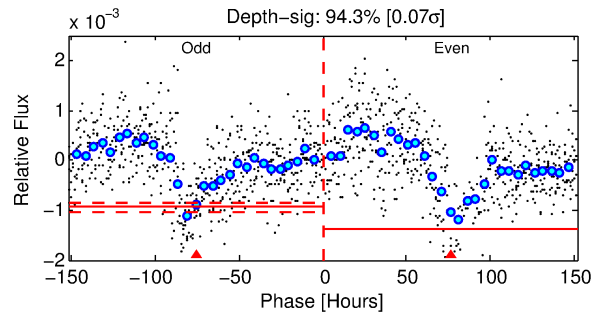
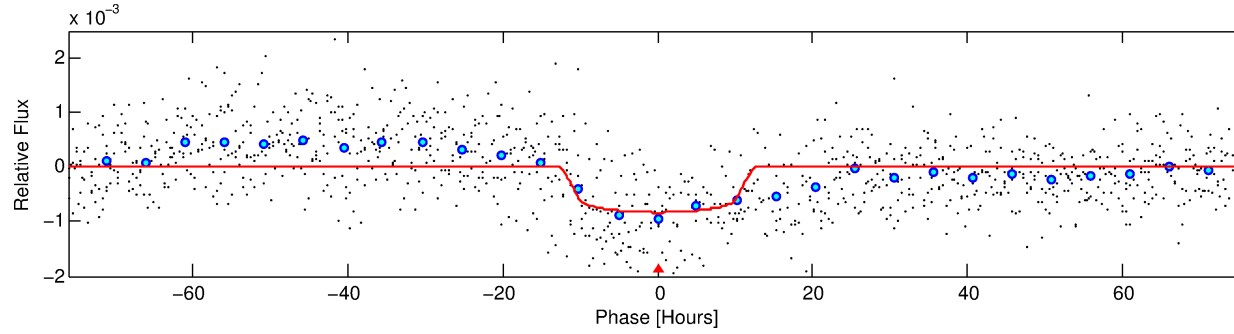
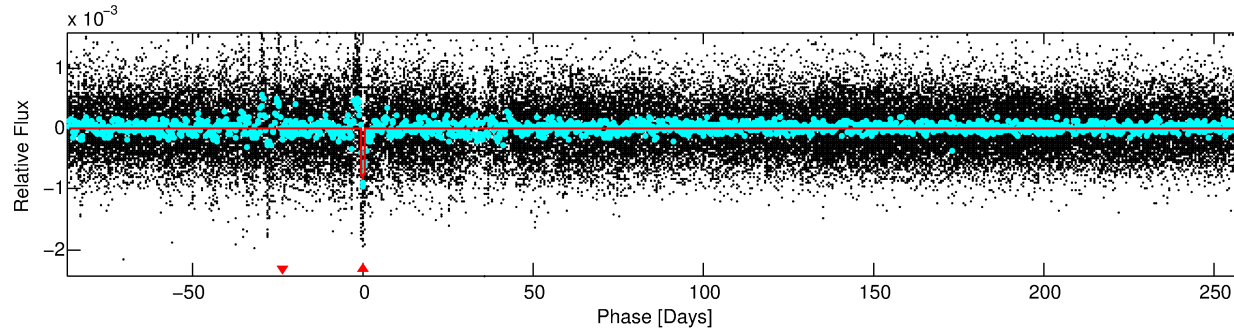
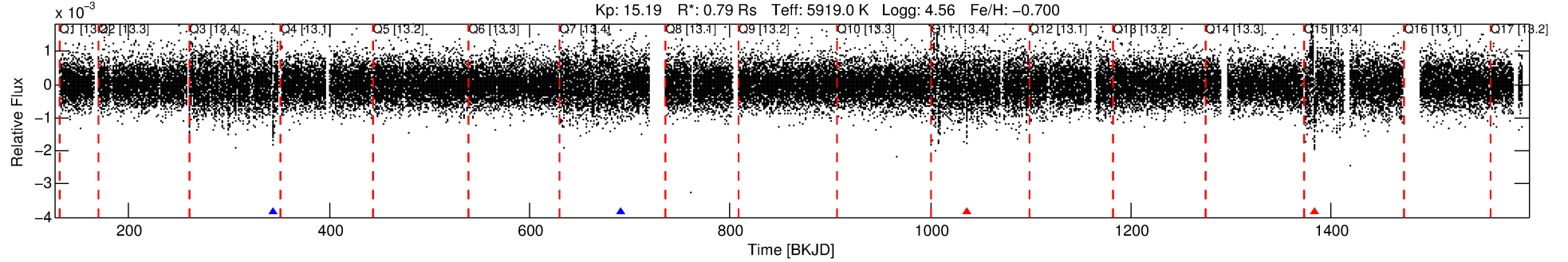
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008295697-01

No Significant Match Found

DV One-Page Summary

KIC: 8295697 Candidate: 1 of 1 Period: 346.352 d



DV Fit Results:

Period = 346.35214 [0.01433] d
Epoch = 343.9329 [0.0282] BKJD
Rp/R* = 0.0304 [0.0026]
a/R* = 56.94 [17.79]
b = 0.87 [0.09]
Seff = 0.83 [0.26]
Teq = 244 [19] K
Rp = 2.61 [0.65] Re
a = 0.9036 [0.1774] AU
Ag = 8575.36 [5888.65] [1.46σ]
Teffp = 3623 [575] K [5.87σ]

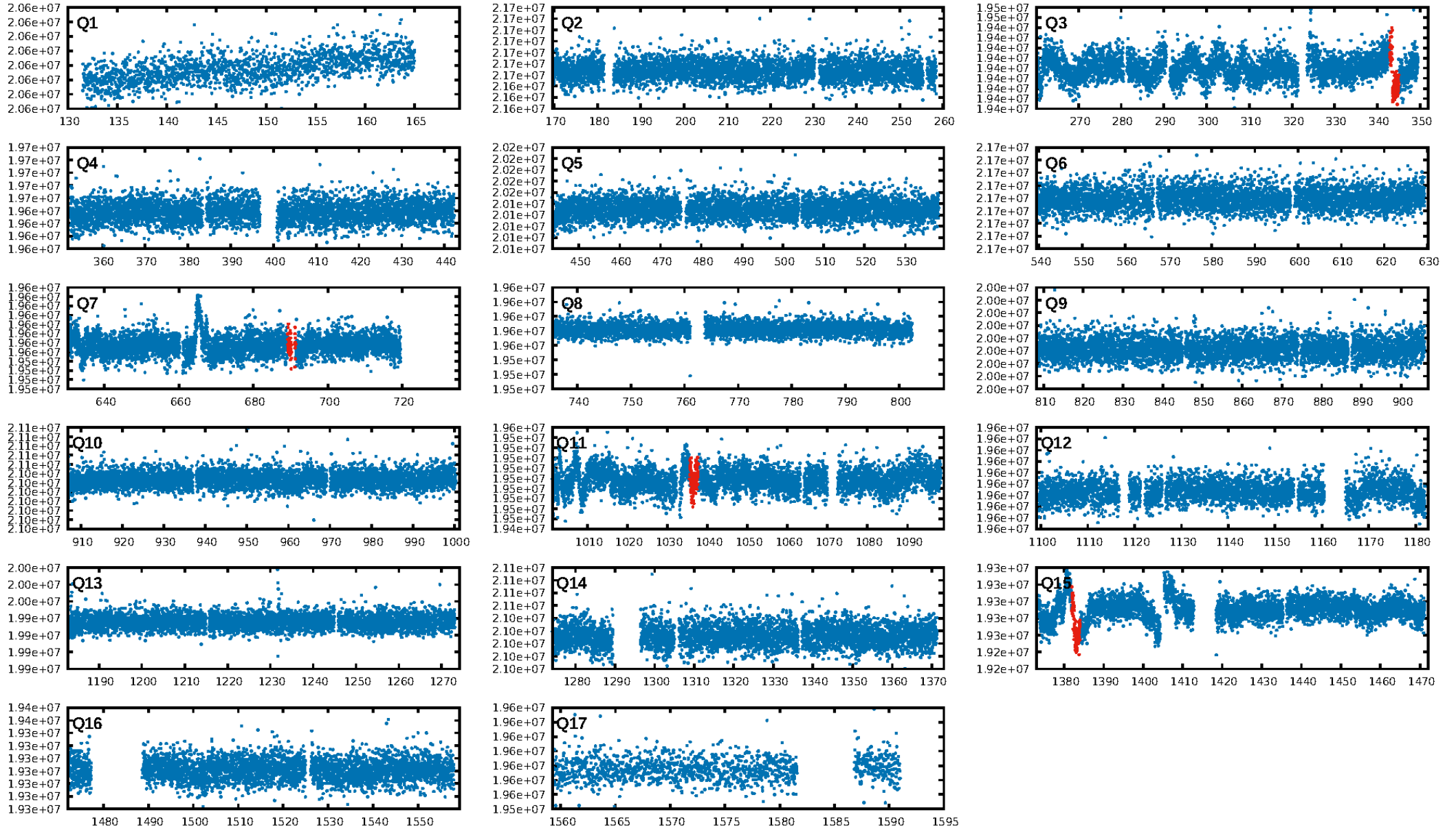
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 6.51e-15
RollingBand-fgt: 0.50 [2/4]
GhostDiagnostic-chr: 0.9872
Centroid-sig: 0.0%
Centroid-so: 9.753 arcsec [4.60σ]
OotOffset-rm: 5.141 arcsec [5.82σ]
KicOffset-rm: 4.875 arcsec [5.70σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

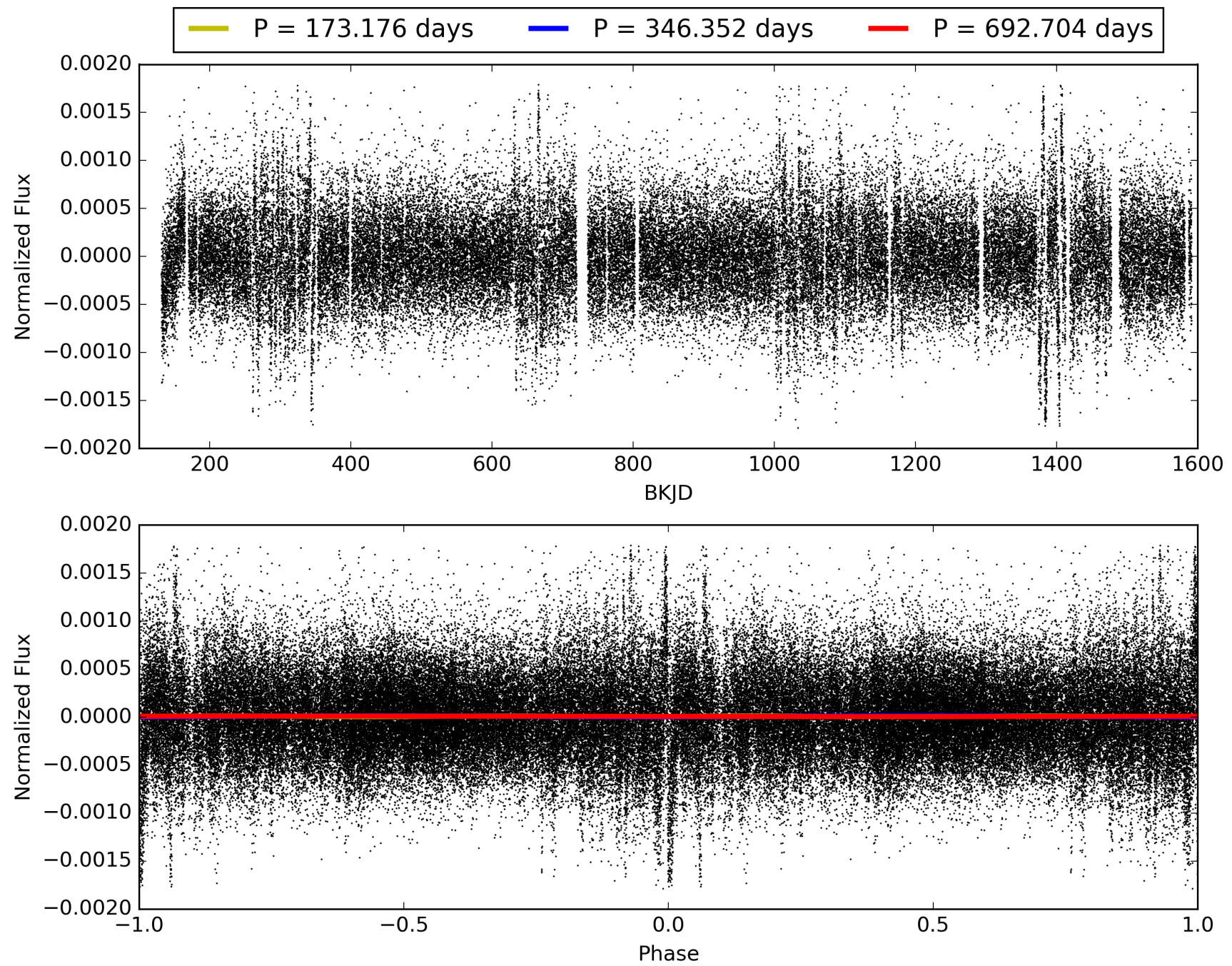
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:28:33 Z

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

TCE 008295697-01, PDC Light Curves

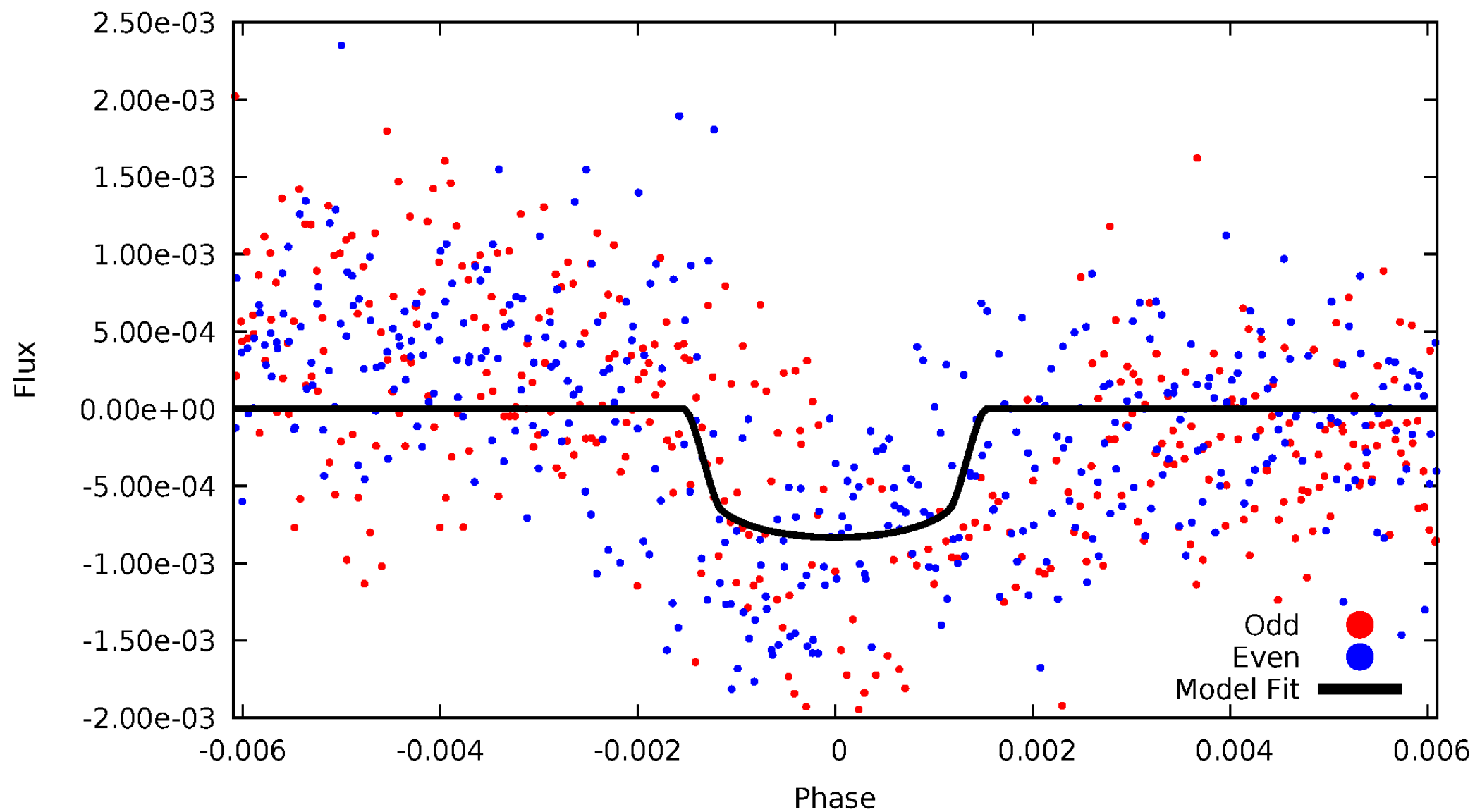


TCE 008295697-01



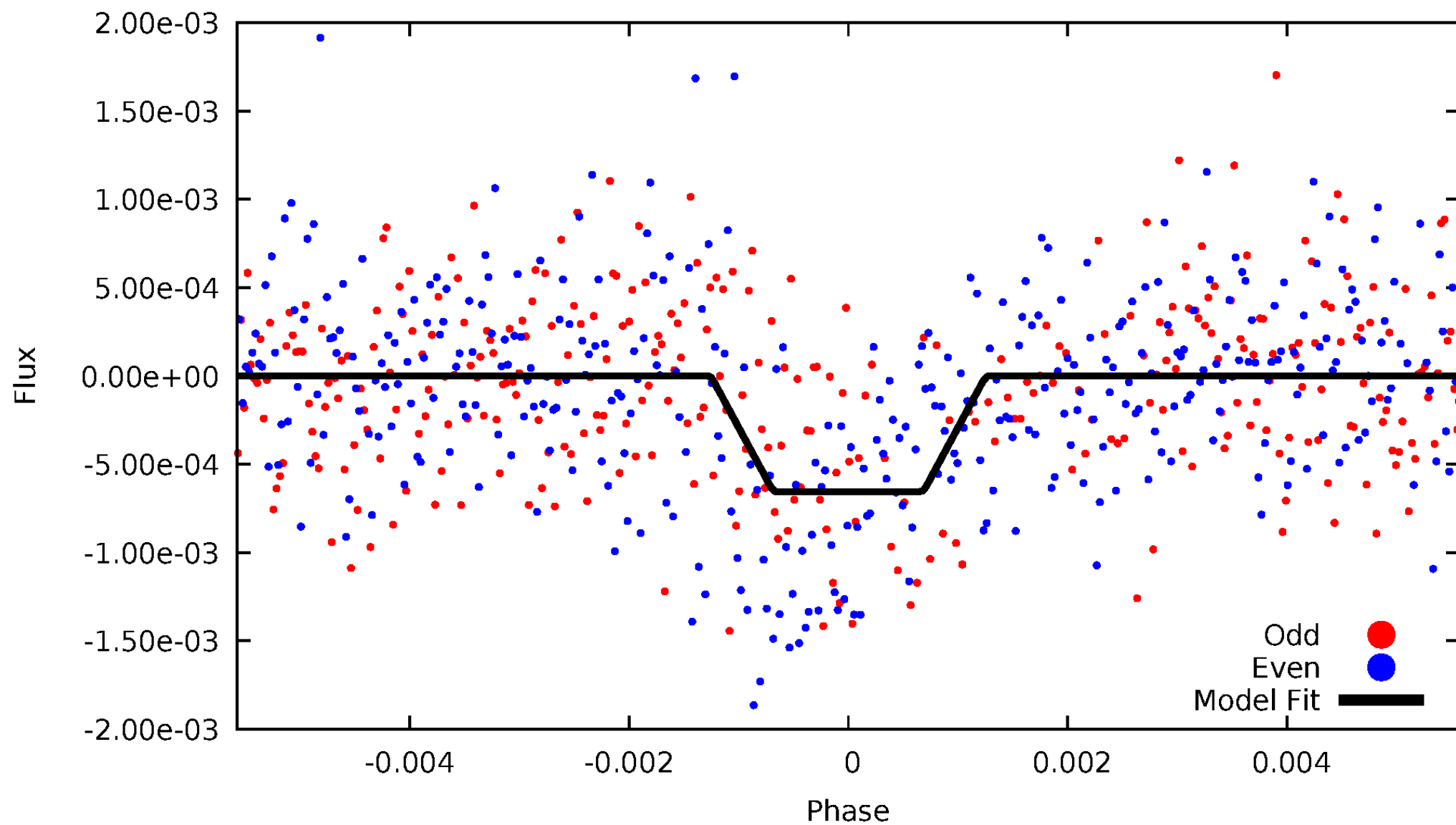
DV Odd/Even

TCE 008295697-01



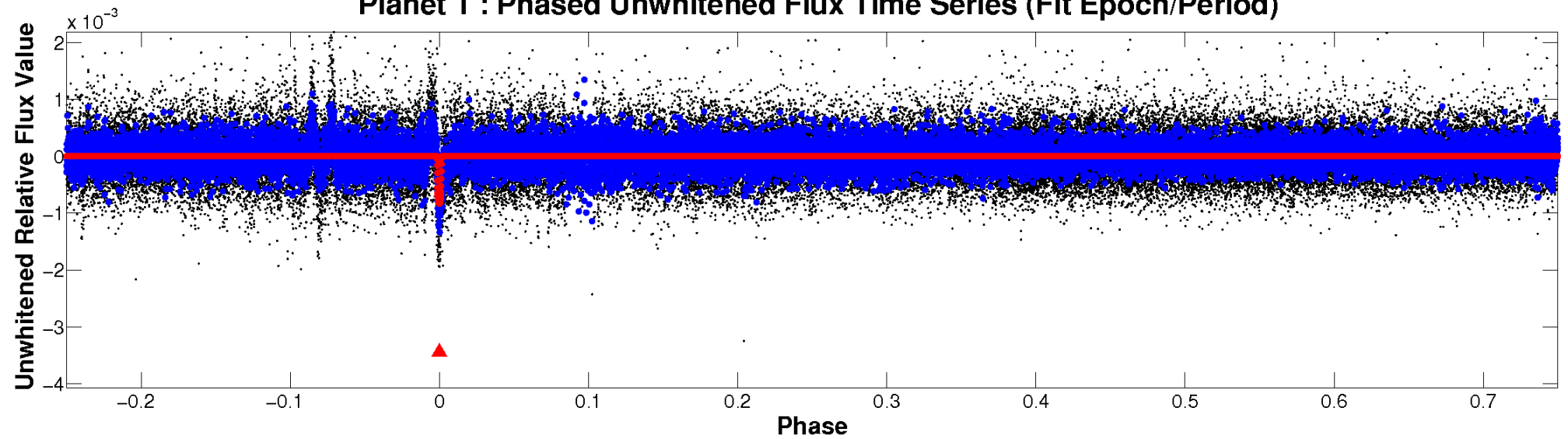
ALT Odd/Even

TCE 008295697-01

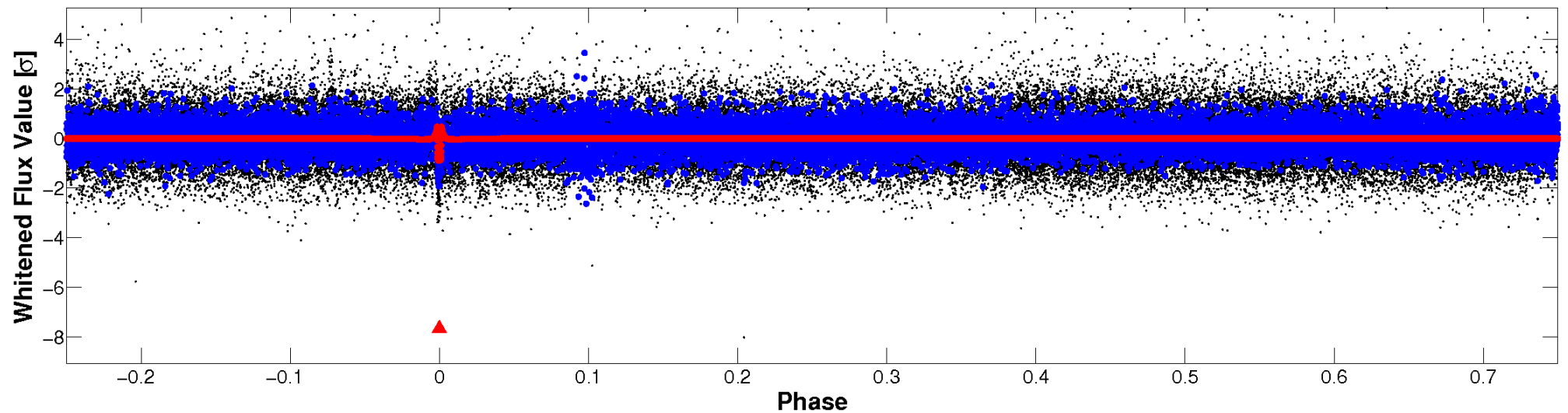


Non-Whitened Vs. Whitened Light Curve

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

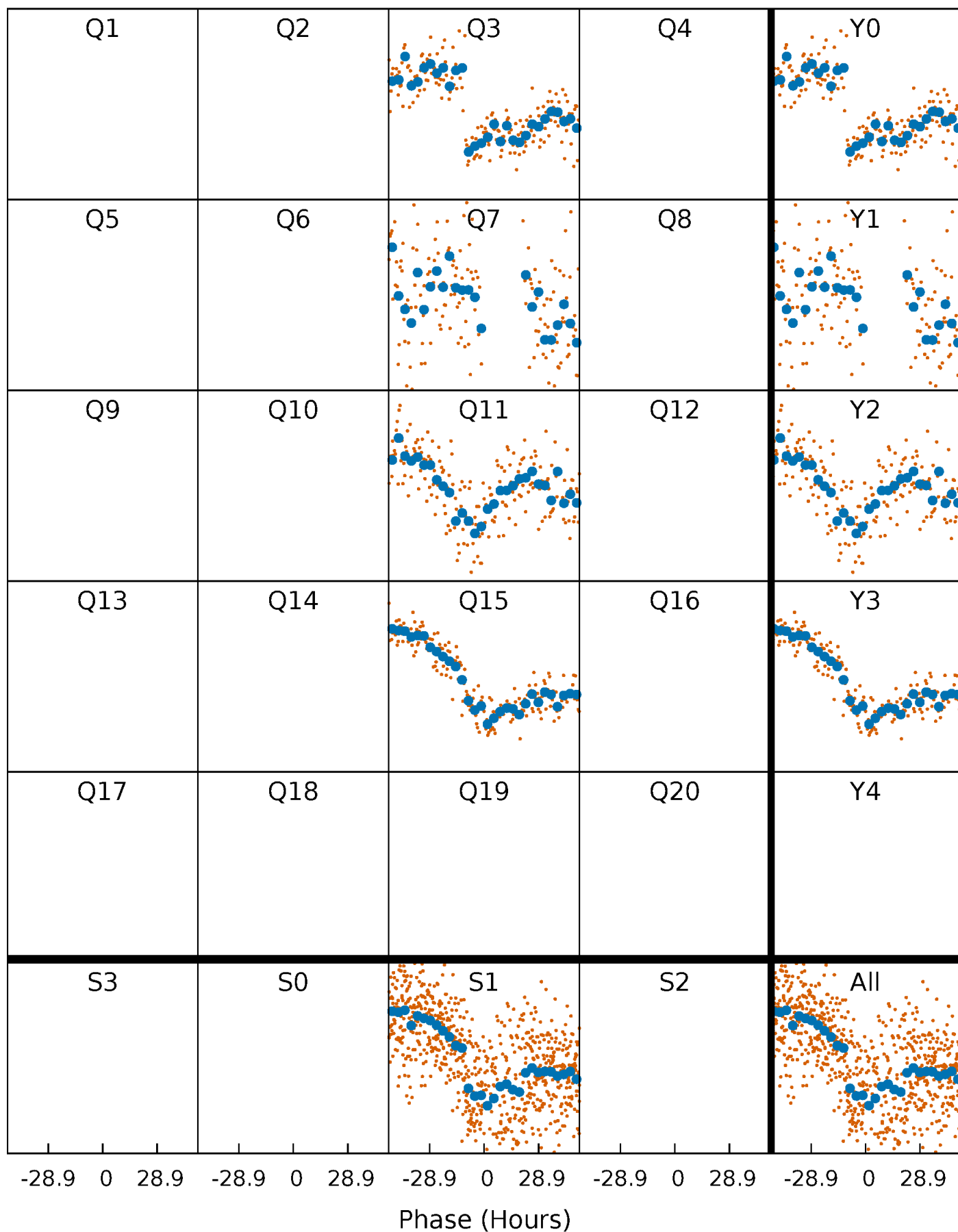


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



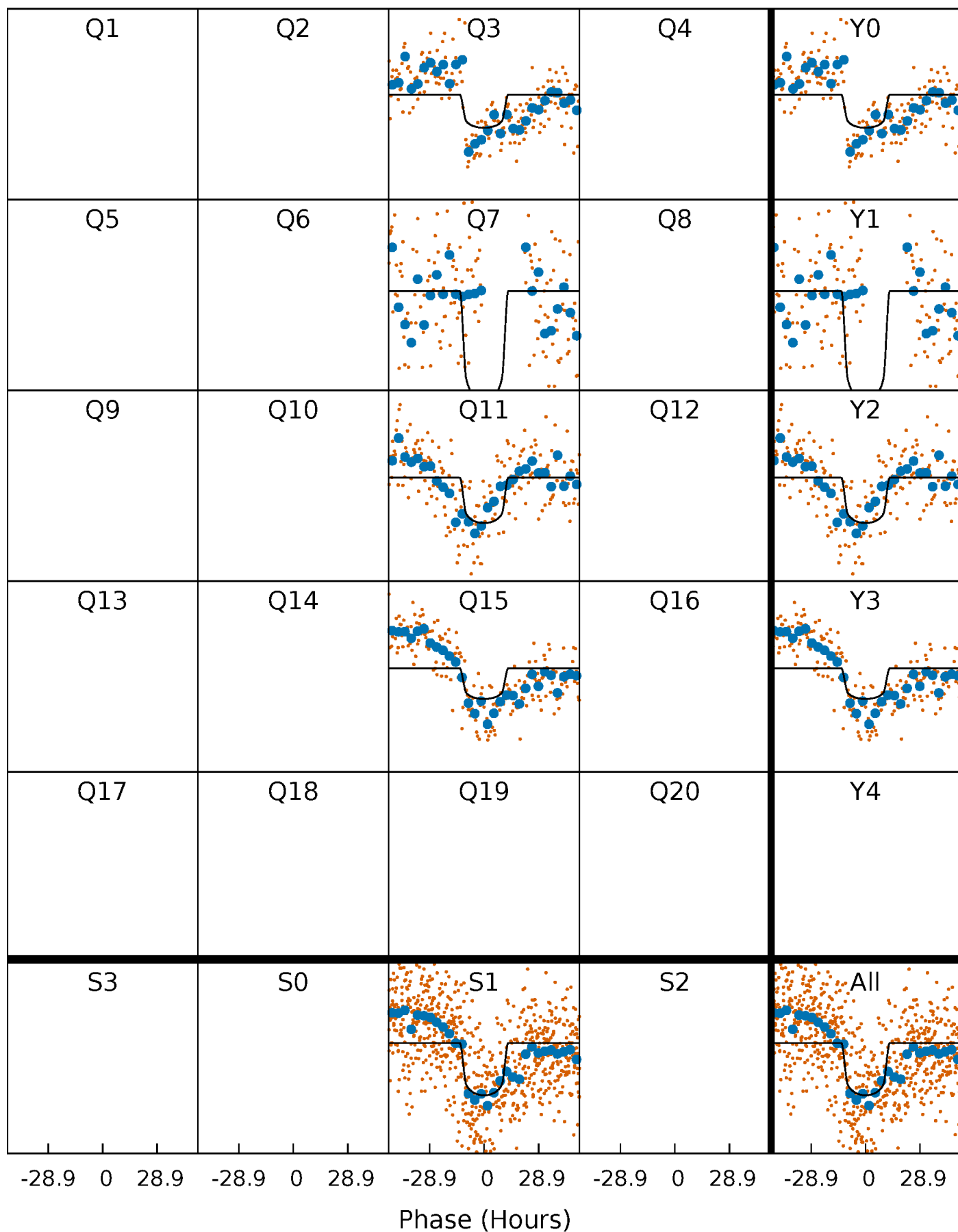
PDC Quarter-Phased Transit Curves

TCE 008295697-01 $P=346.352143$ Days $T_0=343.932901$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008295697-01 $P=346.352143$ Days $T_0=343.932901$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

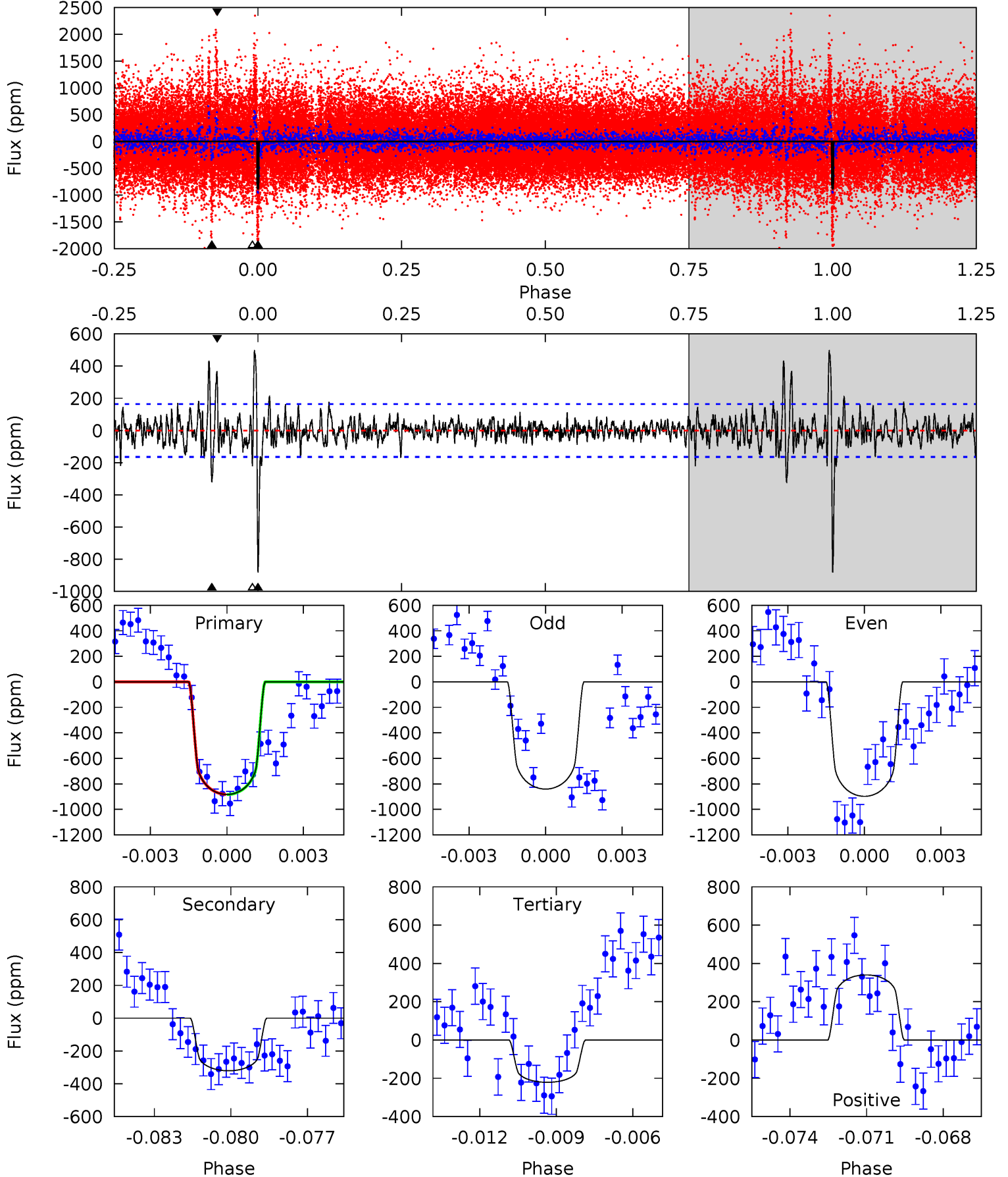
TCE 008295697-01 P=346.335220 Days $T_0=343.868729$ (BKJD)



DV Model-Shift Uniqueness Test

008295697-01, P = 346.352143 Days, E = 343.932901 Days

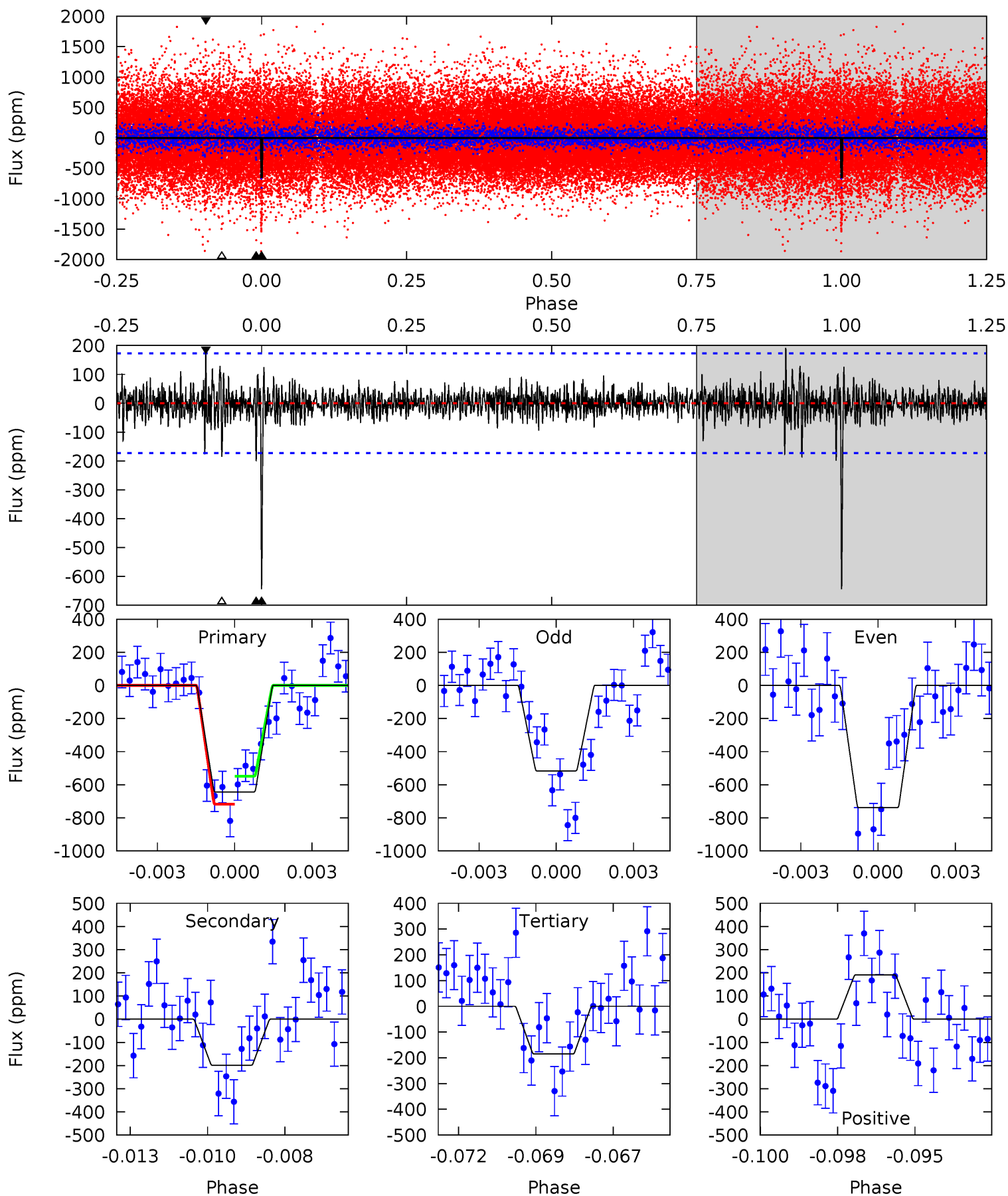
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.3	10.3	7.08	10.9	5.25	2.96	2.13	21.2	17.4	3.20	-0.62	0.89	0.86	0.36	0.02



Alt Model-Shift Uniqueness Test

008295697-01, P = 346.335220 Days, E = 343.868729 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.7	6.08	5.66	5.85	5.28	3.02	1.03	14.0	13.9	0.41	0.23	3.38	0.94	0.23	2.57



Stellar Parameters For KIC 008295697

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5919^{+159}_{-177}	$4.561^{+0.053}_{-0.158}$	$-0.700^{+0.300}_{-0.300}$	$0.786^{+0.182}_{-0.073}$	$0.820^{+0.079}_{-0.071}$	$2.377^{+0.619}_{-1.039}$
	+3%/-3%	+1%/-3%	+43%/-43%	+23%/-9%	+10%/-9%	+26%/-44%
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 008295697-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-321 ± 31	$2.69^{+0.39}_{-0.30}$	345^{+17}_{-15}	4667^{+236}_{-206}	19549^{+5816}_{-4637}
Alt.	-199 ± 33	$2.26^{+0.34}_{-0.28}$	344^{+18}_{-15}	4547^{+268}_{-243}	17151^{+6080}_{-4793}

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

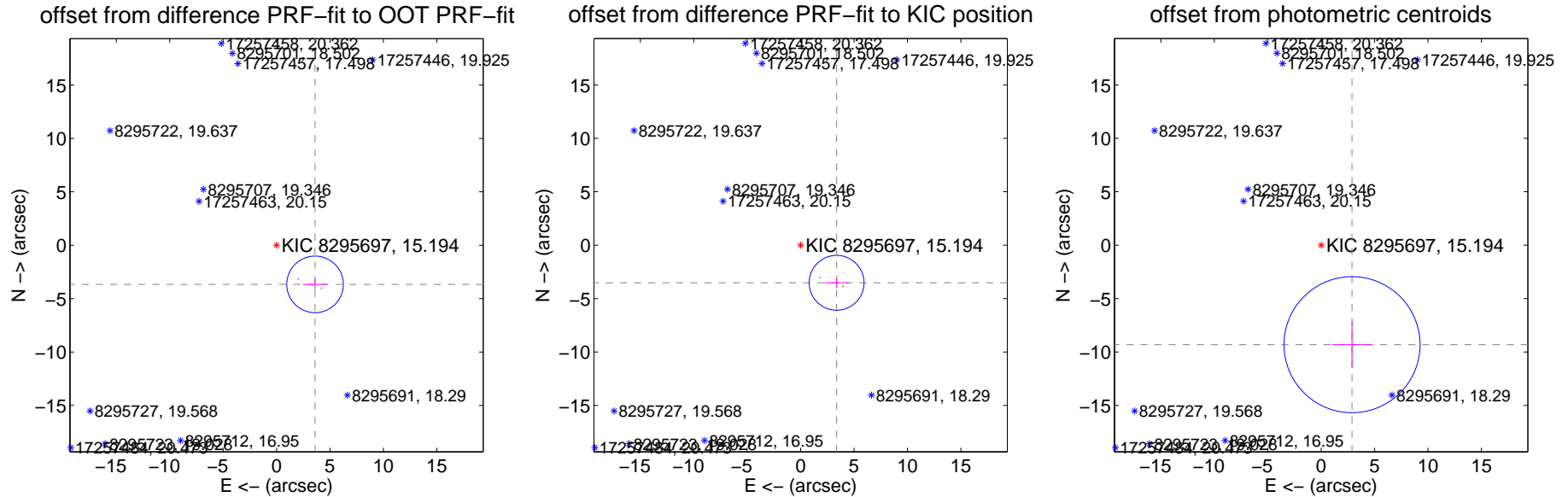
DV Centroid Data

Supplemental centroid analysis for 008295697-01. Kepler magnitude: 15.19. Transit SNR 10.58

There are 1 quarters with good PRF difference image offsets

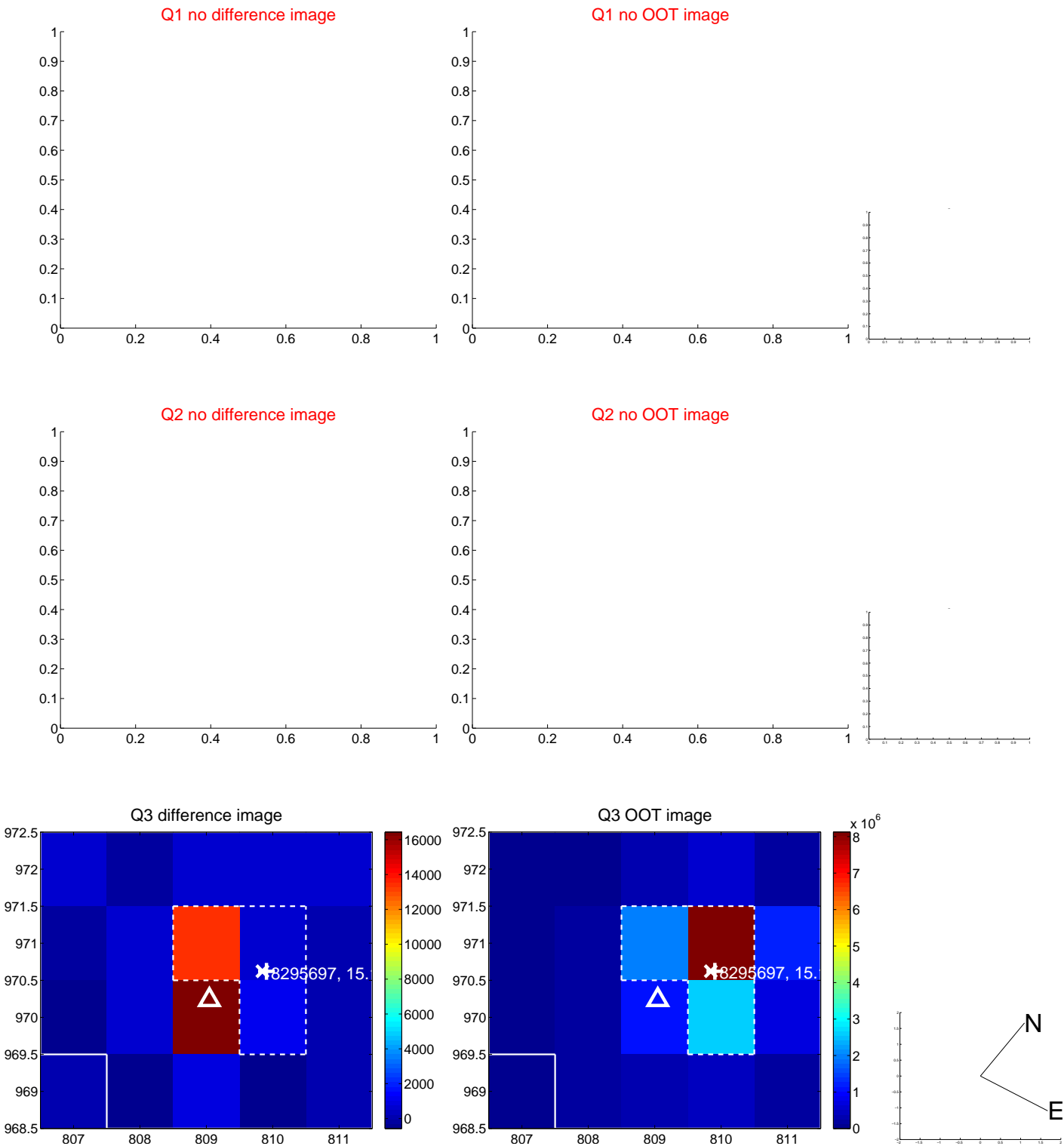
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.141 \pm 0.883	5.82	-3.606 \pm 1.152	-3.665 \pm 0.499
PRF-fit source offset from KIC position	4.875 \pm 0.856	5.70	-3.369 \pm 1.129	-3.523 \pm 0.486
photometric centroid source offset	9.75 \pm 2.12	4.60	-2.89 \pm 1.87	-9.32 \pm 2.14



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

Q9 no difference image



Q9 no OOT image



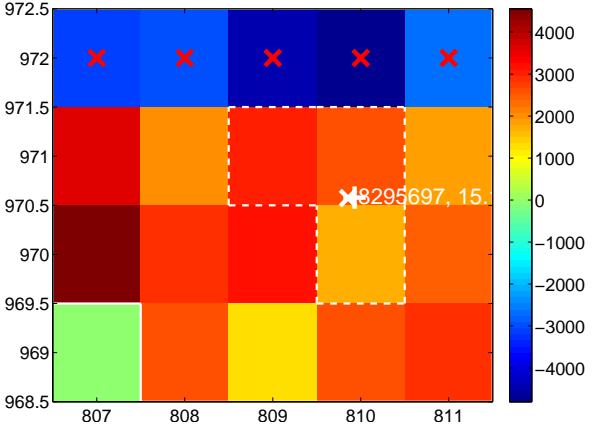
Q10 no difference image



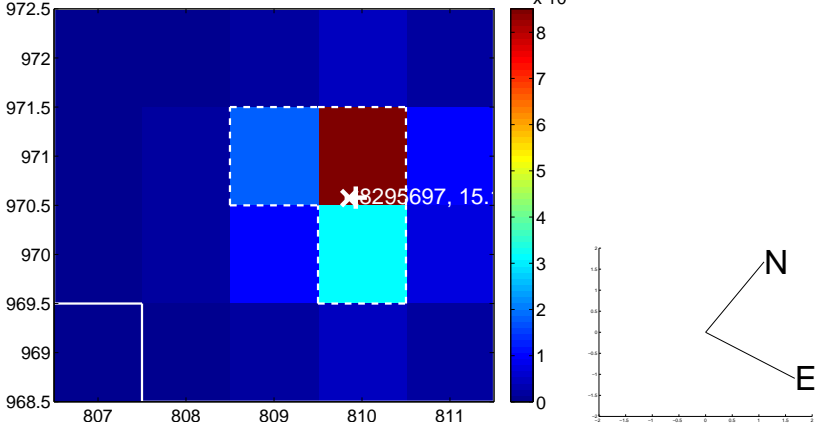
Q10 no OOT image



Q11 difference image. Poor Quality



Q11 OOT image



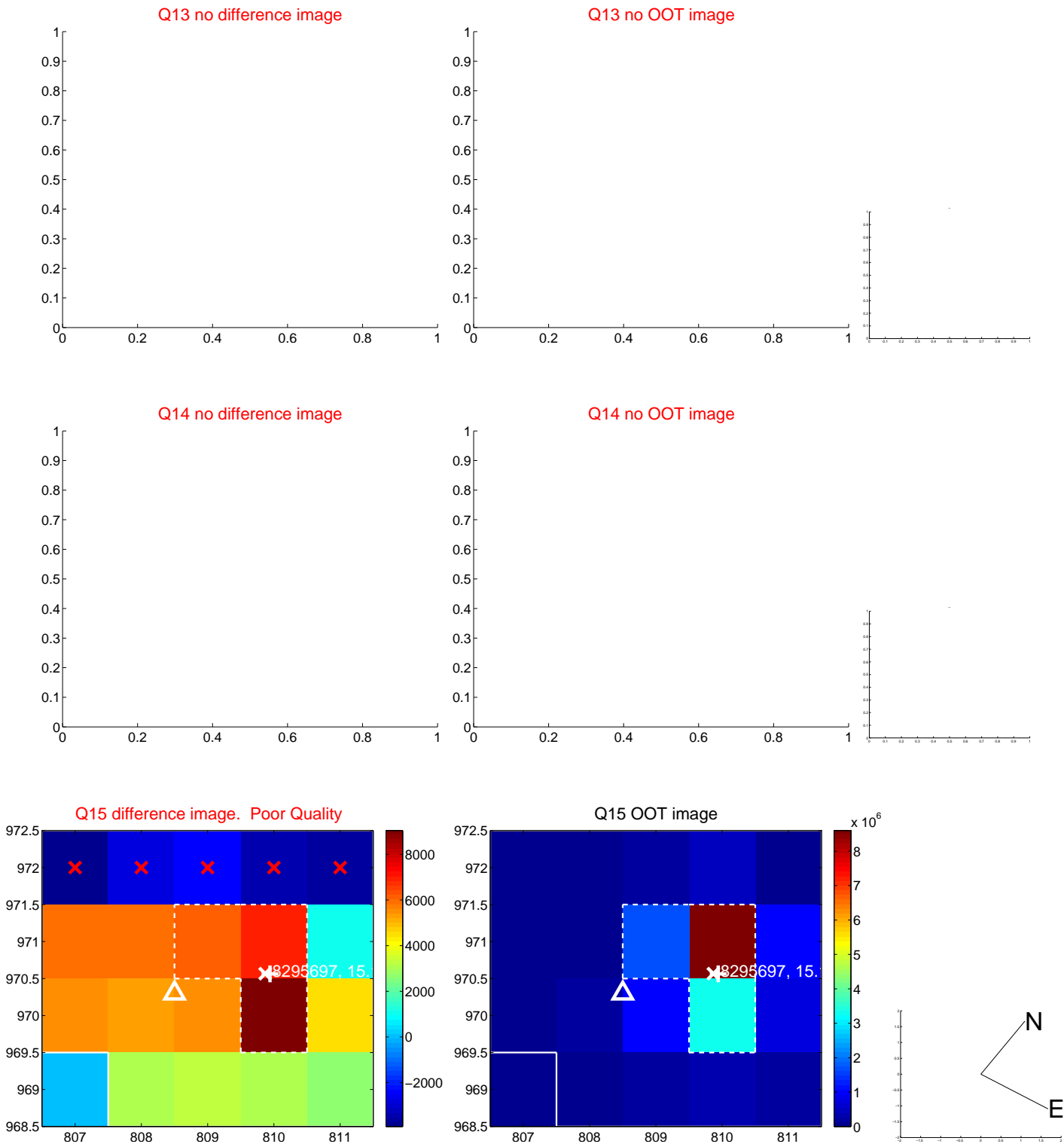
Q12 no difference image



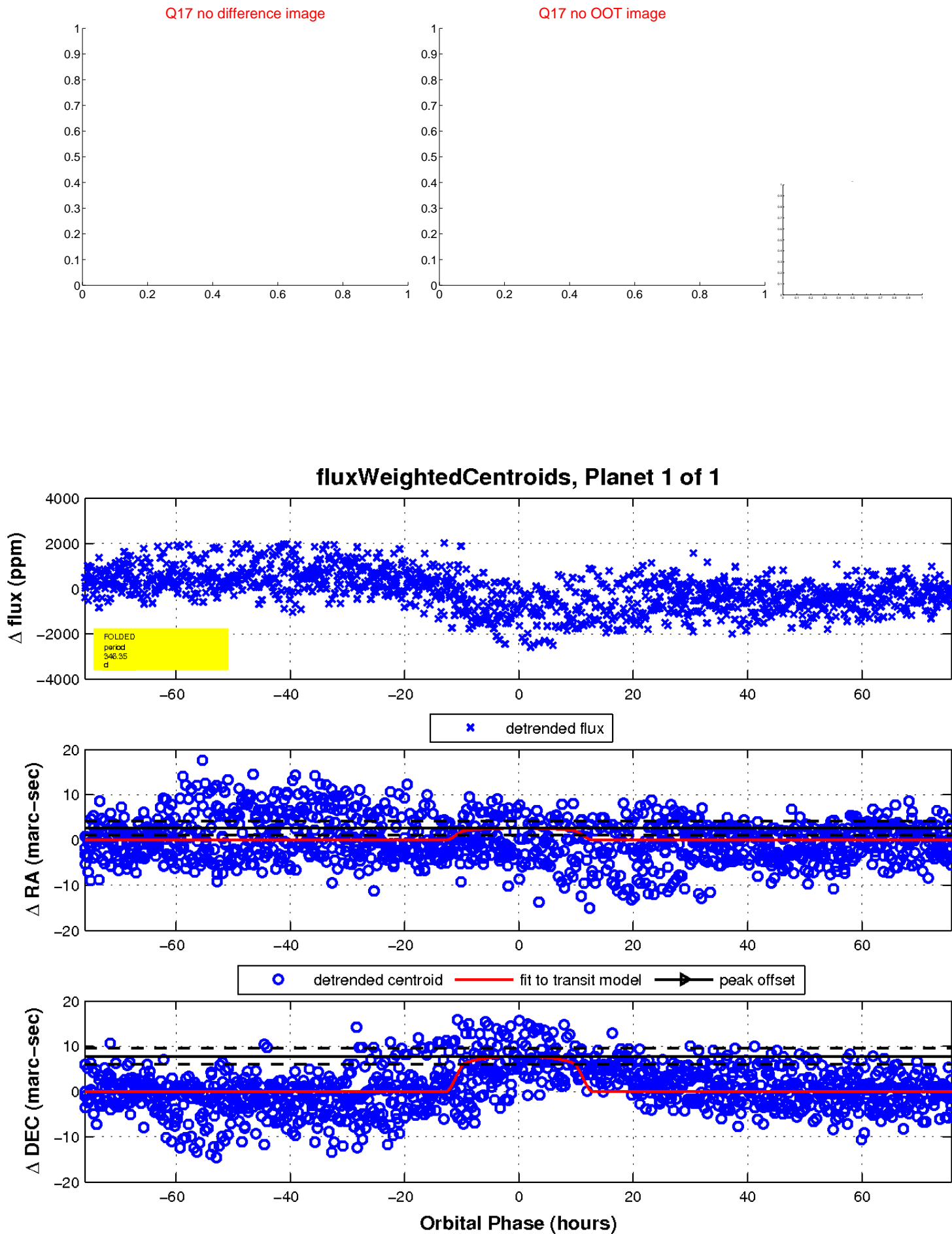
Q12 no OOT image



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

