

KIC 011125936

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})
011125936-01	OBS	1419.01	1.336101	132.832900	1388.3	1.285	79.3	93.0	0.97	6119	4.26	2105.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011125936-01	OBS	FP	0.00	0	1	1	0	MOD_ODDEVEN_DV—MOD_ODDEVEN_ALT—CENT_UNRESOLVED_OFFSET

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 011125936-01

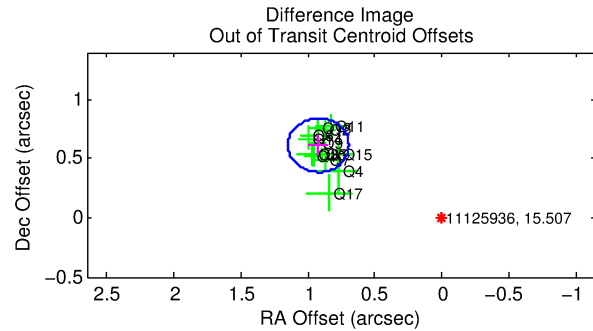
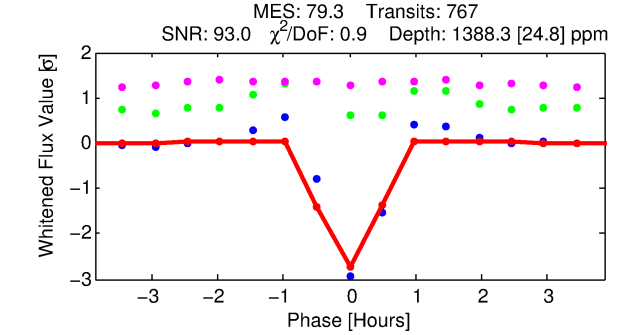
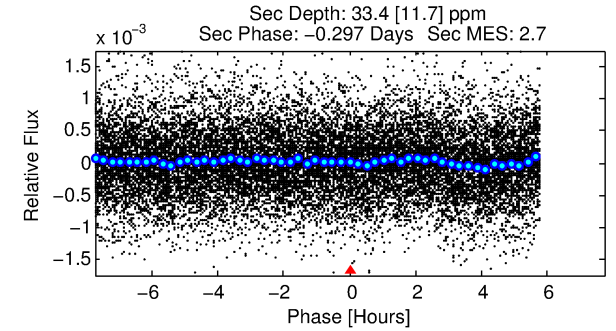
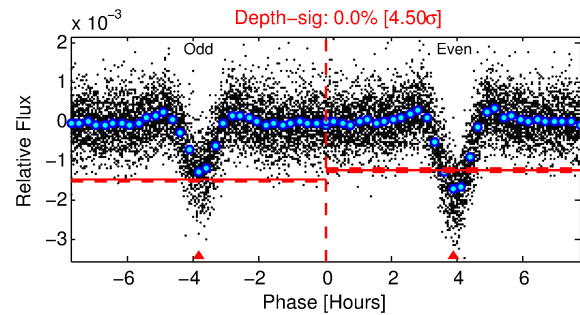
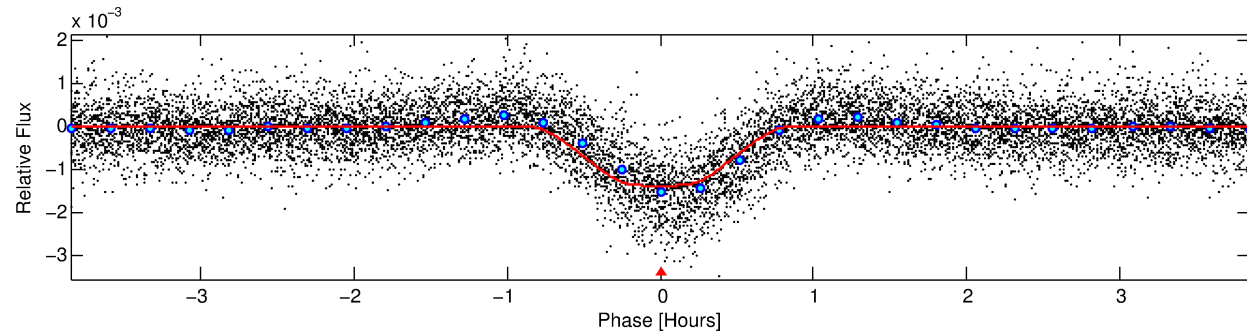
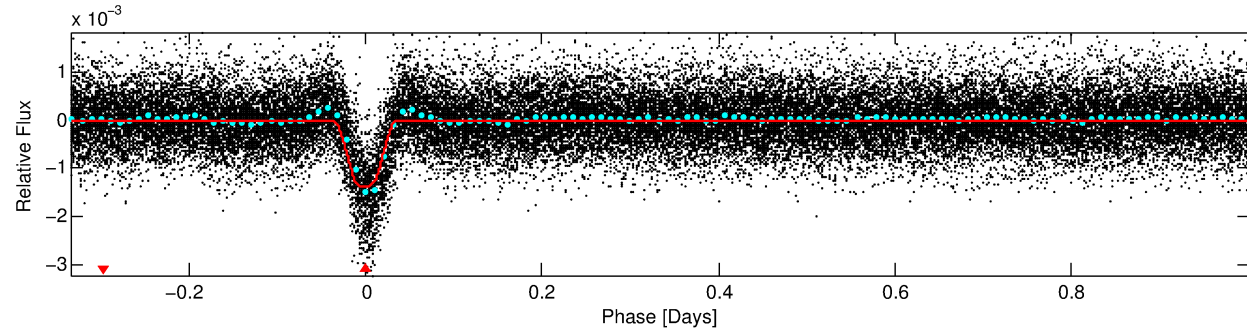
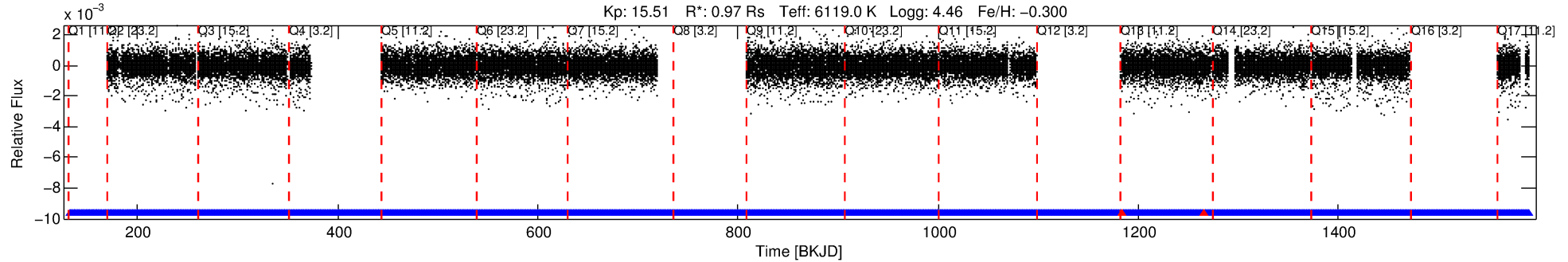
No Significant Match Found

DV One-Page Summary

KIC: 11125936 Candidate: 1 of 1 Period: 1.336 d

KOI: K01419.01 Corr: 0.855

Kp: 15.51 R*: 0.97 Rs Teff: 6119.0 K Logg: 4.46 Fe/H: -0.300



DV Fit Results:

Period = 1.33610 [0.00000] d
Epoch = 132.8329 [0.0002] BKJD
Rp/R* = 0.0404 [0.0015]
a/R* = 4.25 [0.71]
b = 0.90 [0.04]
Seff = 2105.95 [853.48]
Teq = 1727 [175] K
Rp = 4.27 [1.34] Re
a = 0.0236 [0.0062] AU
Ag = 0.56 [0.30] [-1.48σ]
Teffp = 2314 [221] K [2.08σ]

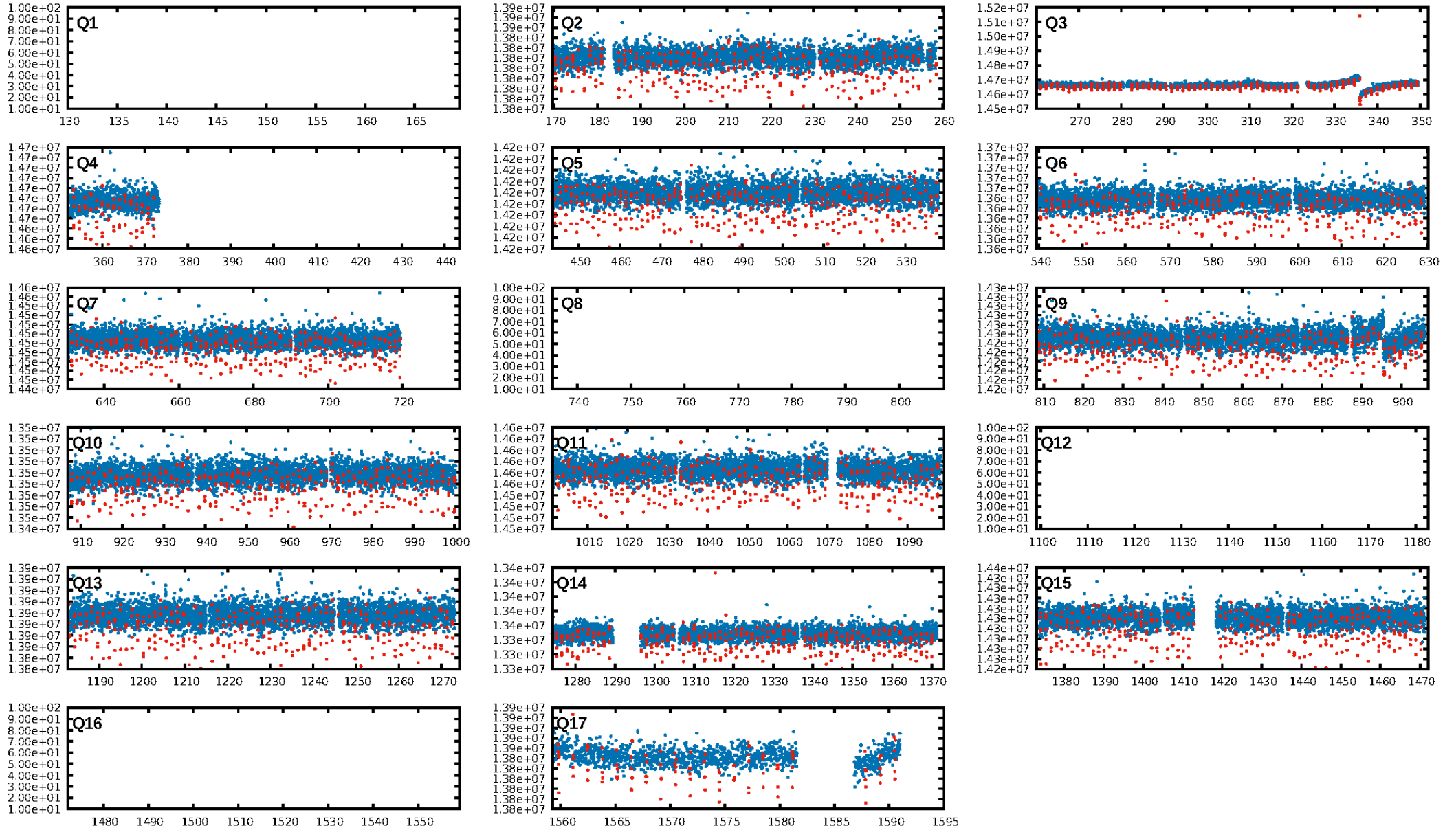
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [730/732]
GhostDiagnostic-chr: 2.897
Centroid-sig: 0.0%
Centroid-so: 1.143 arcsec [7.31σ]
OotOffset-rm: 1.107 arcsec [14.58σ]
KicOffset-rm: 0.950 arcsec [11.98σ]
OotOffset-st: 4/4/1/4 [13]
KicOffset-st: 4/4/1/4 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 1.00 [13/13]

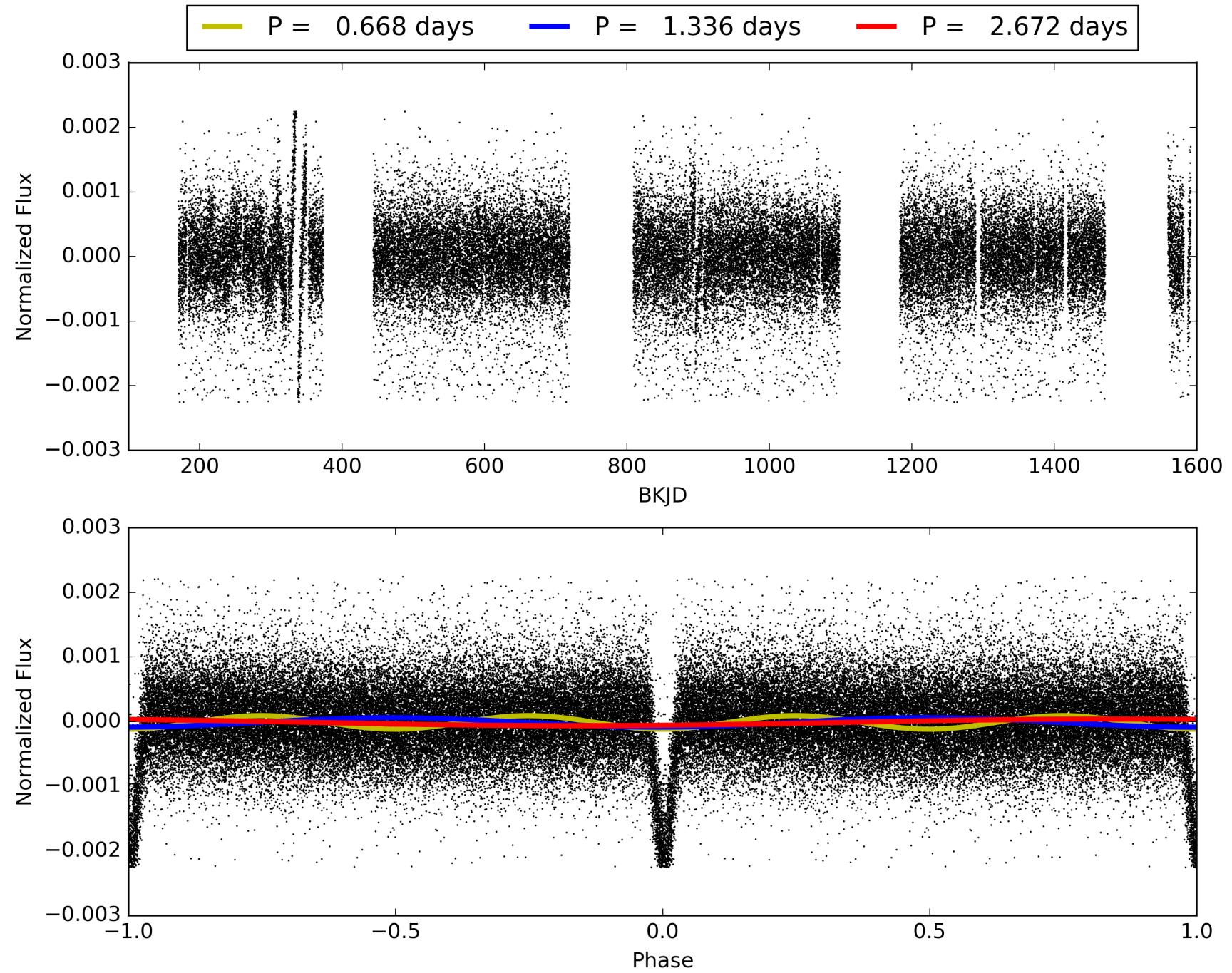
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 23:55:30 Z

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

TCE 011125936-01, PDC Light Curves

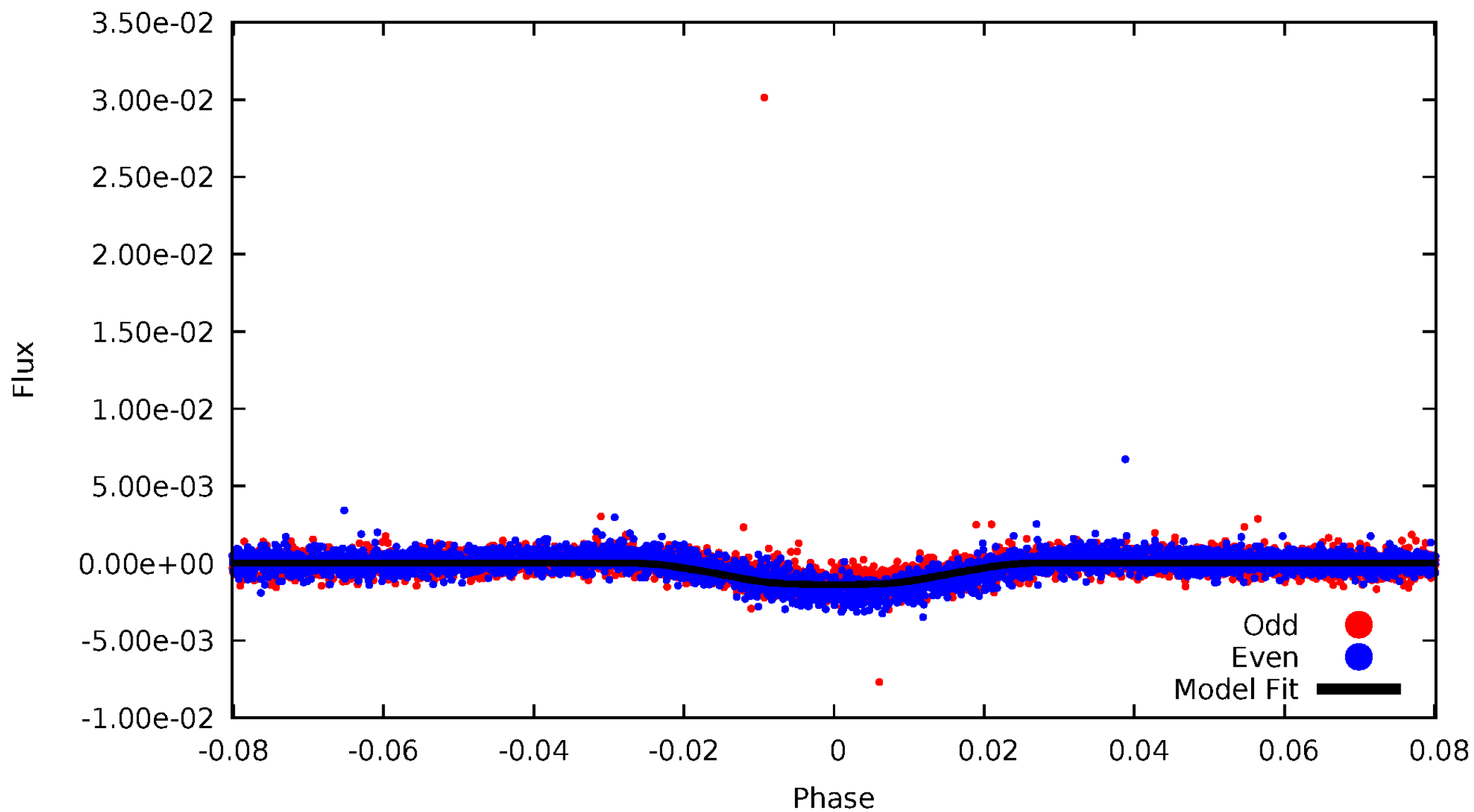


TCE 011125936-01



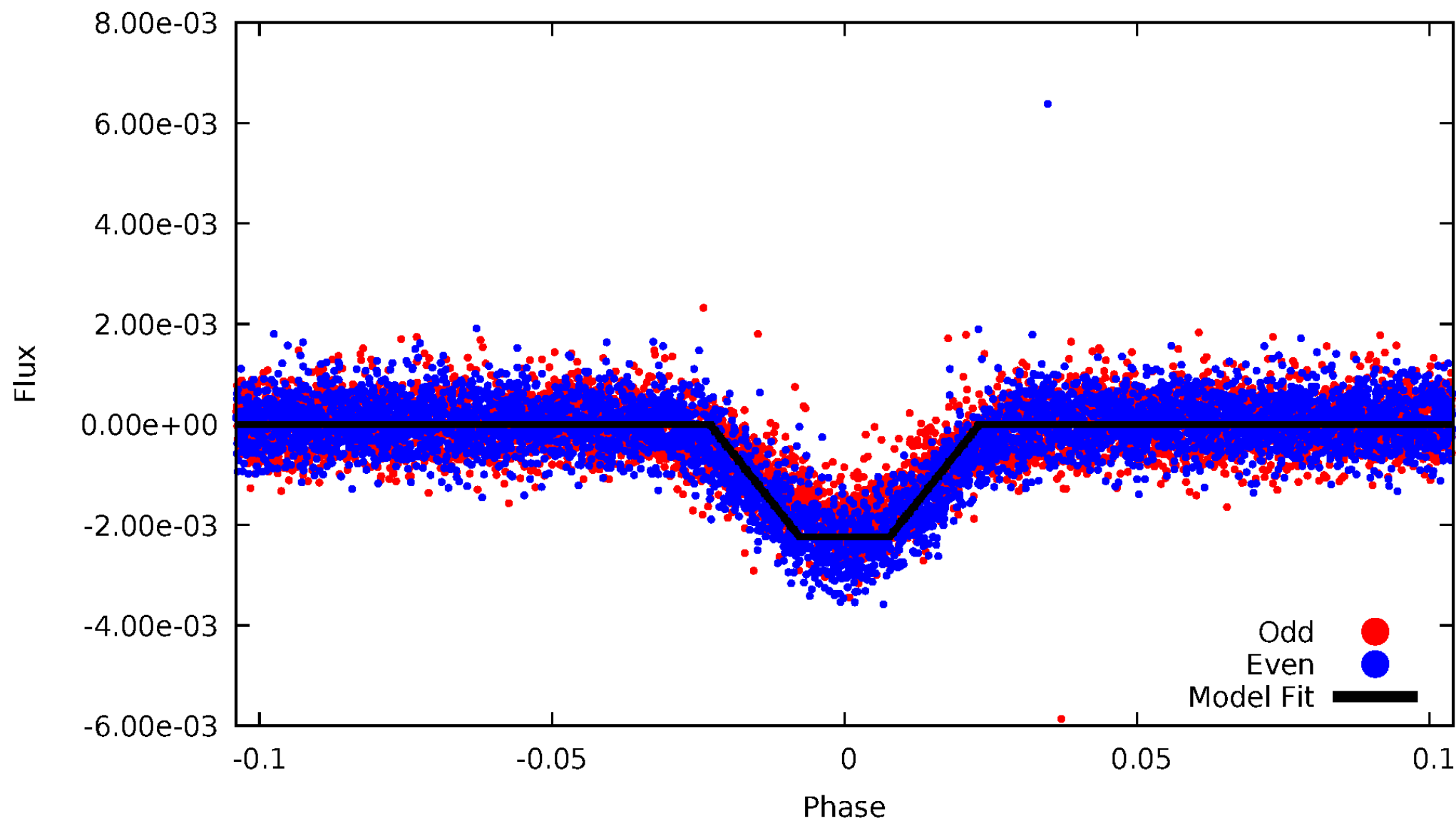
DV Odd/Even

TCE 011125936-01



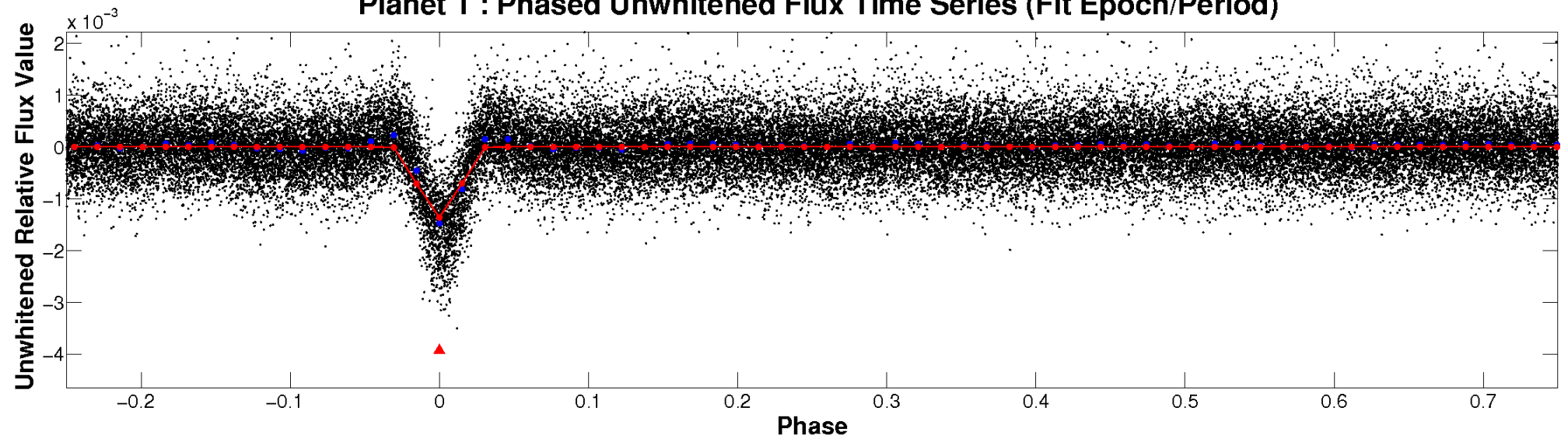
ALT Odd/Even

TCE 011125936-01

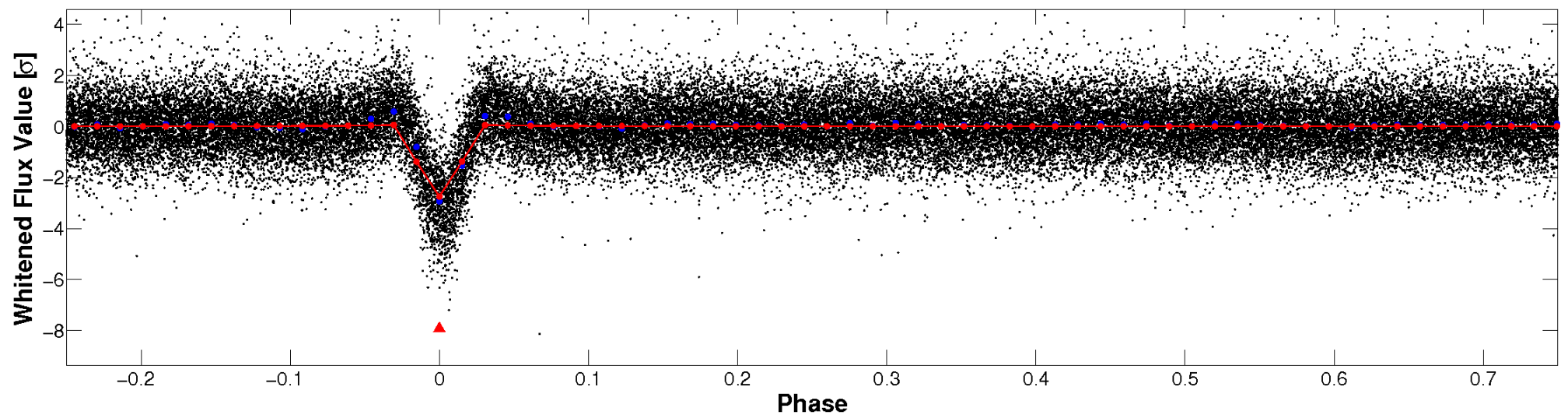


Non-Whitened Vs. Whitened Light Curve

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

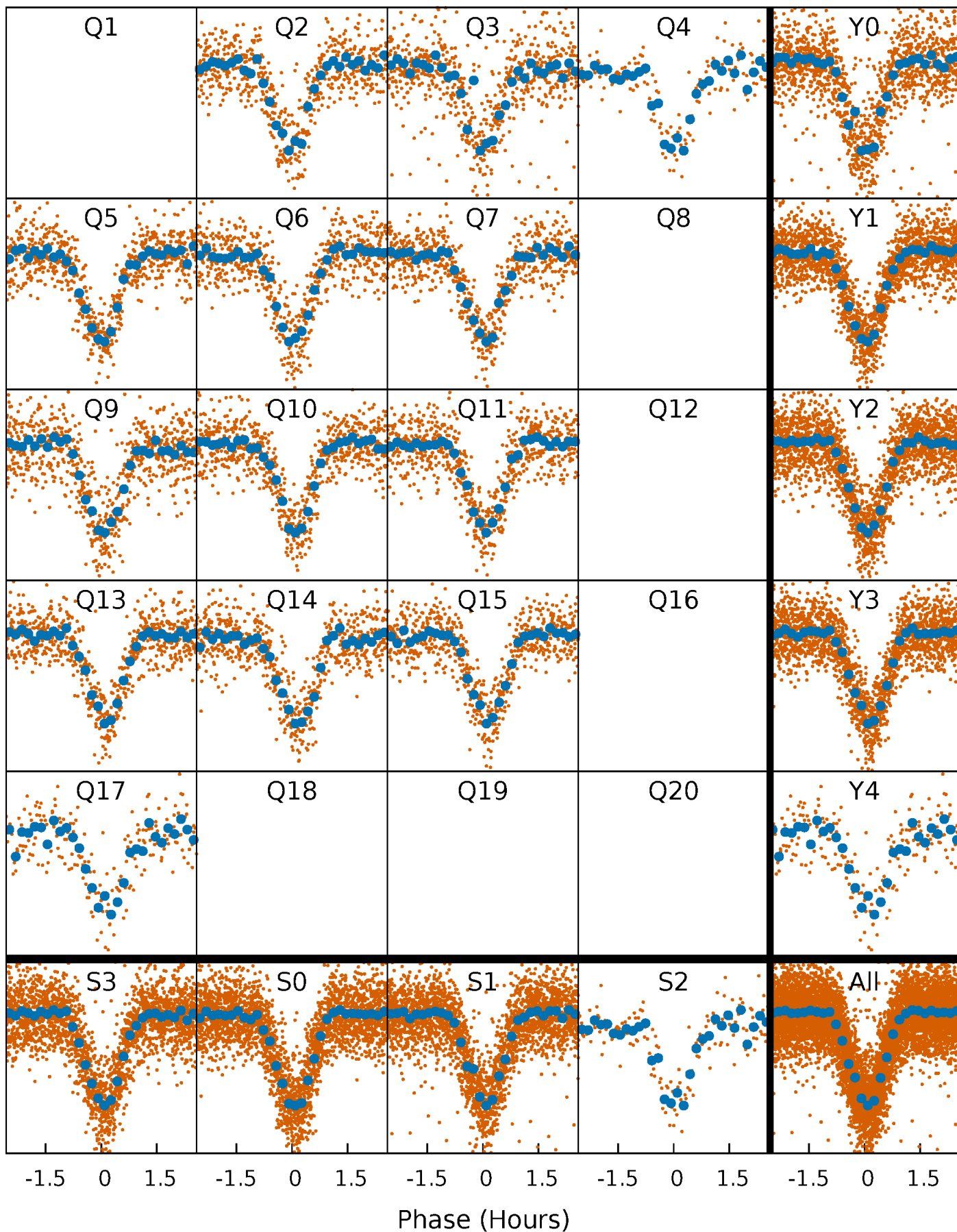


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



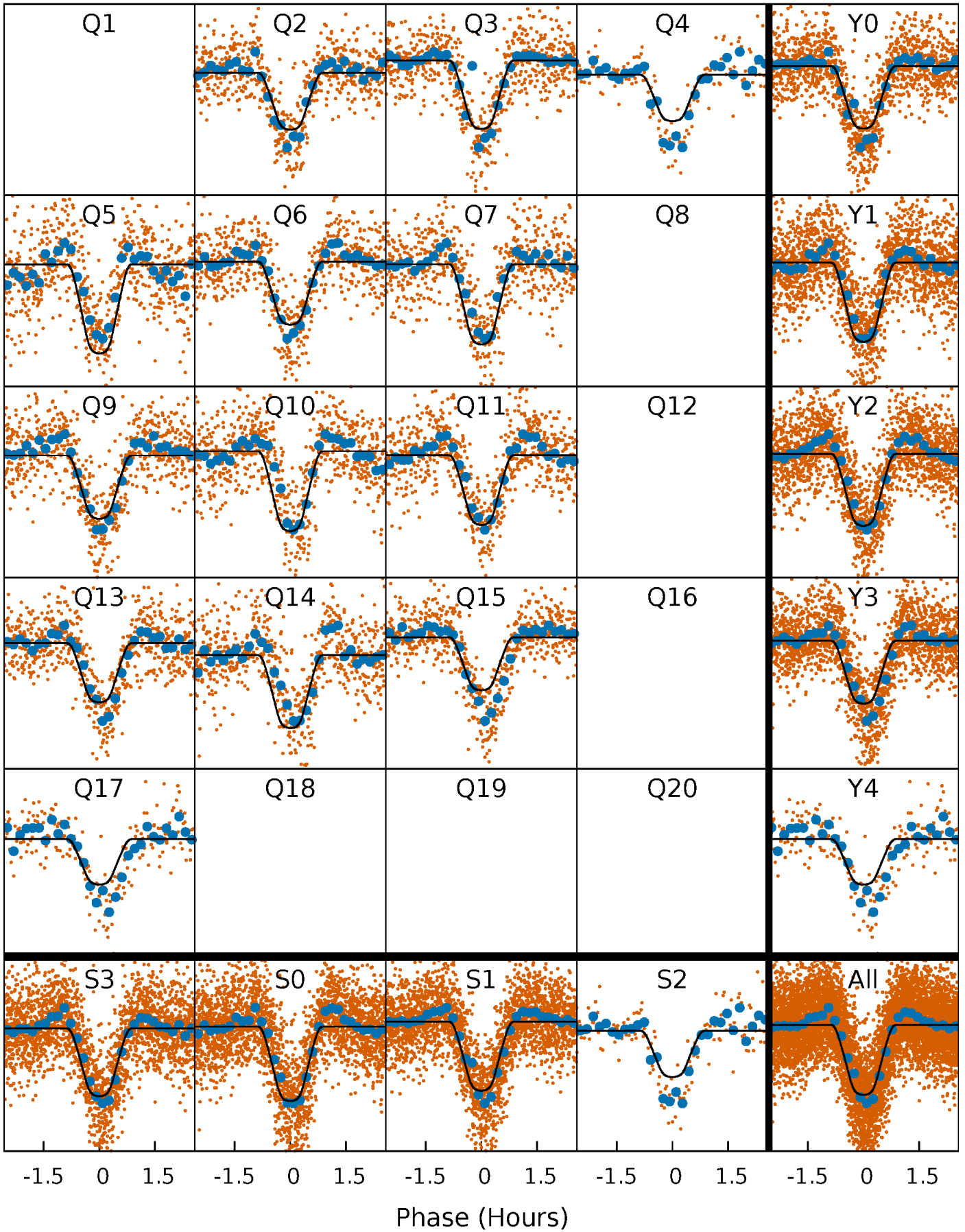
PDC Quarter-Phased Transit Curves

TCE 011125936-01 P= 1.336101 Days $T_0=132.832900$ (BKJD)



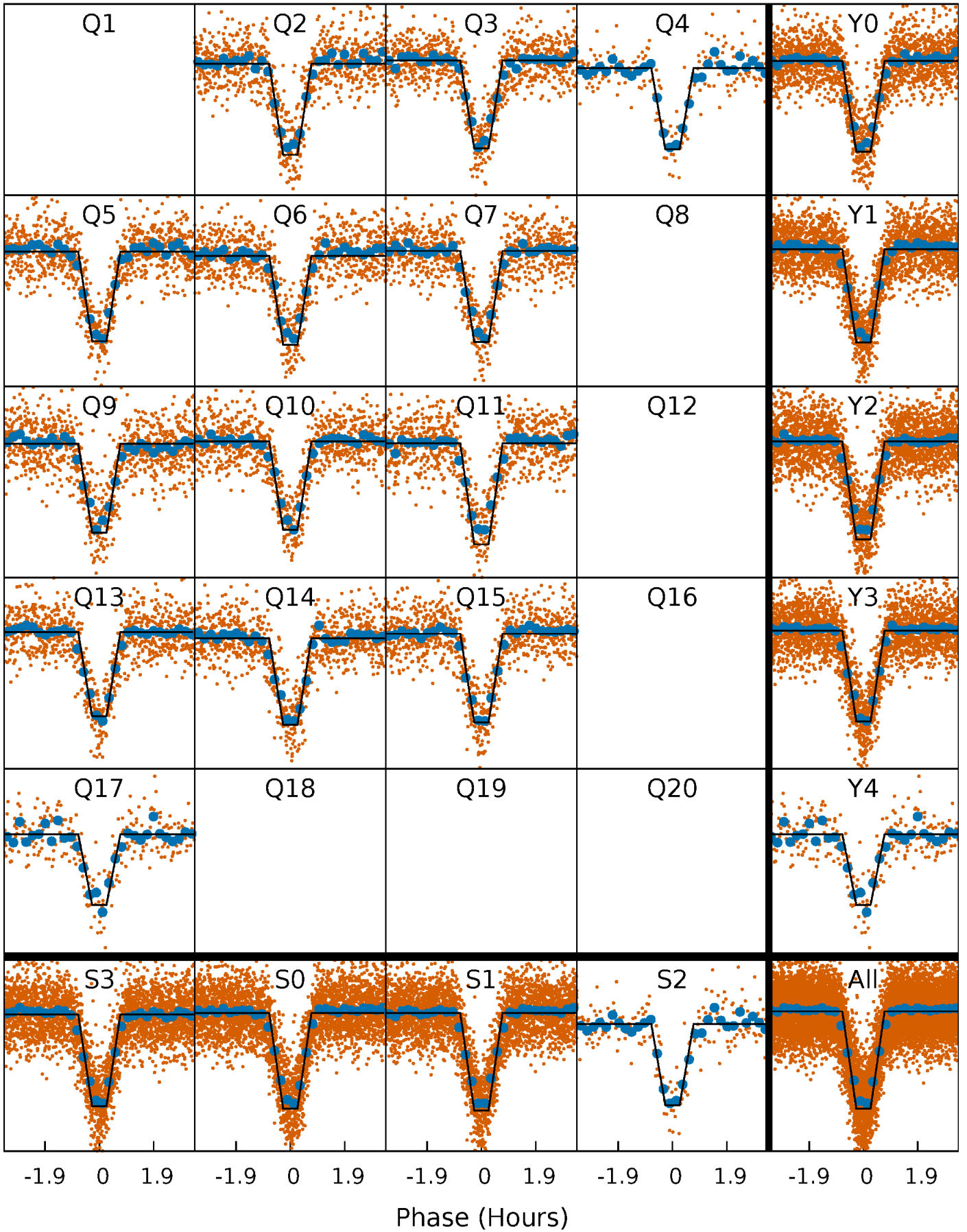
DV Quarter-Phased Transit Curves

TCE 011125936-01 P= 1.336101 Days $T_0=132.832900$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

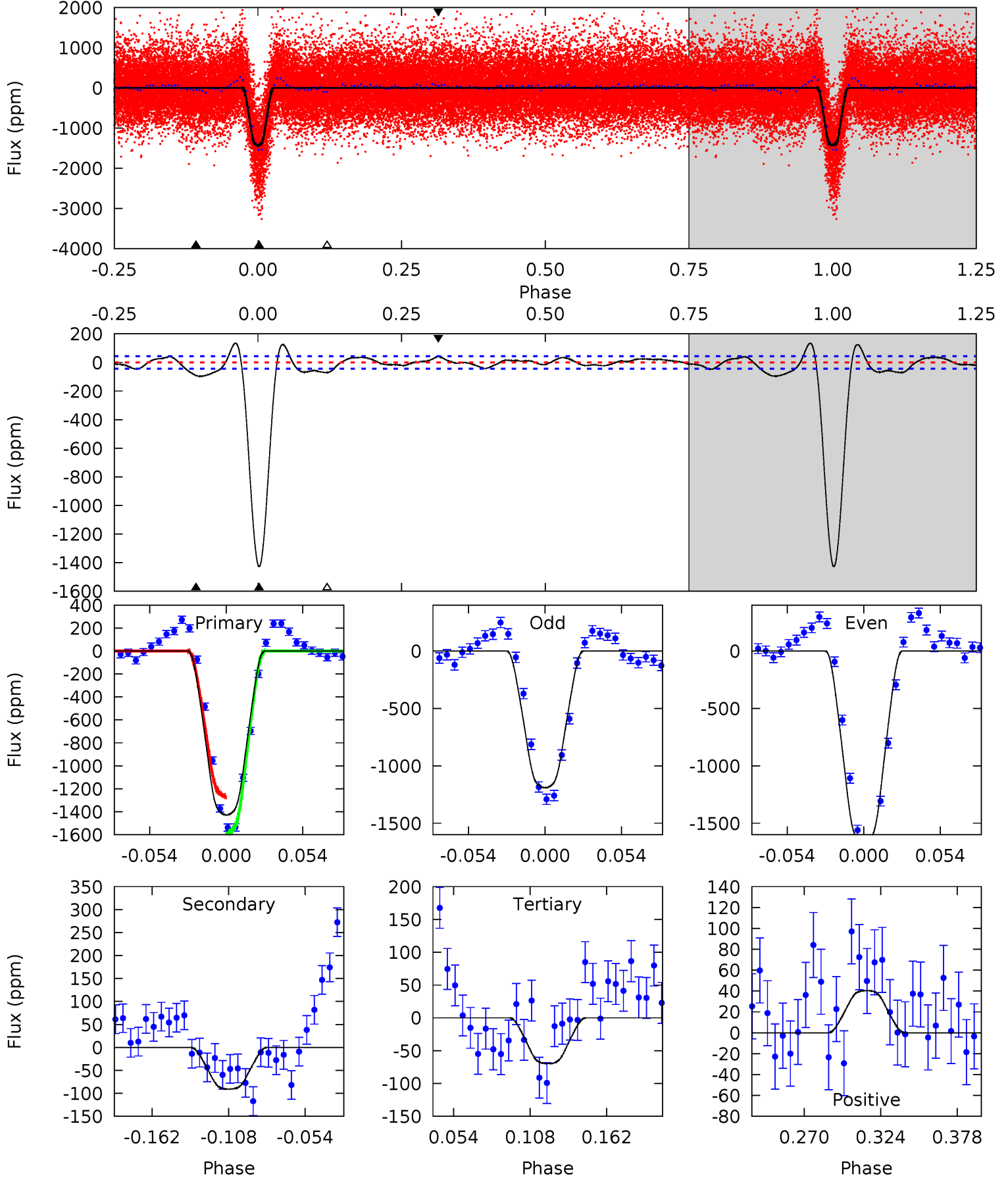
TCE 011125936-01 P= 1.336109 Days $T_0=132.831074$ (BKJD)



DV Model-Shift Uniqueness Test

011125936-01, P = 1.336101 Days, E = 132.832900 Days

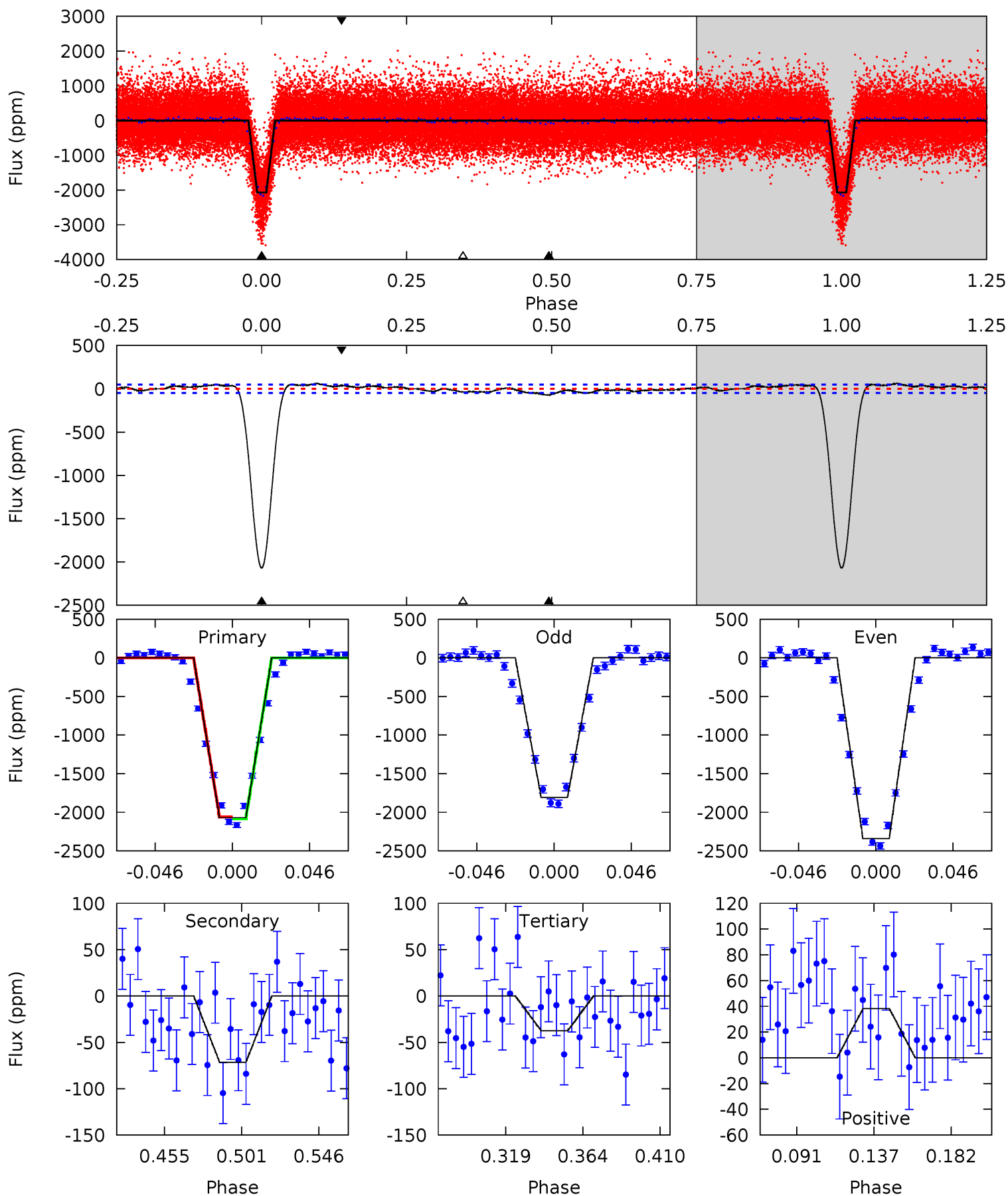
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
154.2	9.81	7.53	4.37	4.69	1.93	2.84	146.7	149.8	2.28	5.44	25.6	1.00	0.09	17.4



Alt Model-Shift Uniqueness Test

011125936-01, P = 1.336109 Days, E = 132.831074 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
202.5	6.99	3.68	3.74	4.73	2.00	2.57	198.9	198.8	3.31	3.25	26.1	1.01	0.03	1.10



Stellar Parameters For KIC 011125936

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6119^{+183}_{-201}	$4.460^{+0.070}_{-0.210}$	$-0.300^{+0.300}_{-0.300}$	$0.967^{+0.301}_{-0.120}$	$0.982^{+0.141}_{-0.115}$	$1.530^{+0.449}_{-0.829}$
	+3%/-3%	+2%/-5%	+100%/-100%	+31%/-12%	+14%/-12%	+29%/-54%
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 011125936-01 / KOI 1419.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-91 ± 9	$4.40^{+0.80}_{-0.46}$	2458^{+192}_{-126}	3338^{+105}_{-119}	$1.414^{+0.359}_{-0.361}$
Alt.	-71 ± 10	$5.12^{+0.85}_{-0.47}$	2457^{+175}_{-122}	2968^{+130}_{-158}	$0.808^{+0.218}_{-0.213}$

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

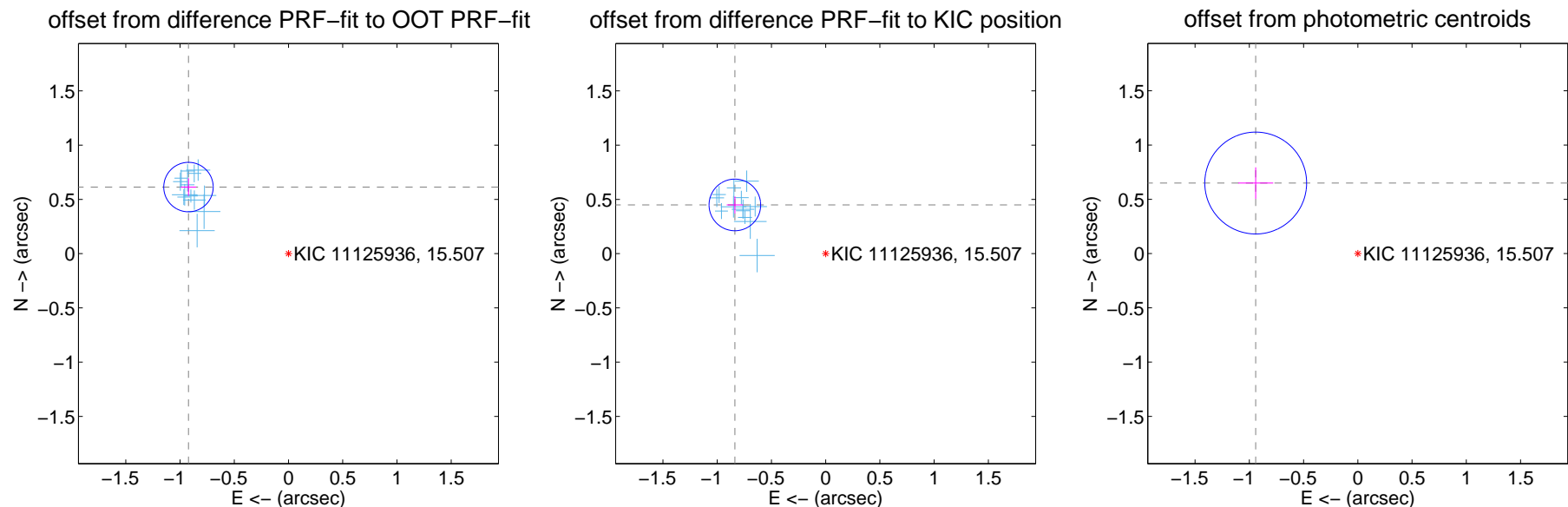
DV Centroid Data

Supplemental centroid analysis for 011125936-01. Kepler magnitude: 15.51. Transit SNR 92.97

There are 13 quarters with good PRF difference image offsets

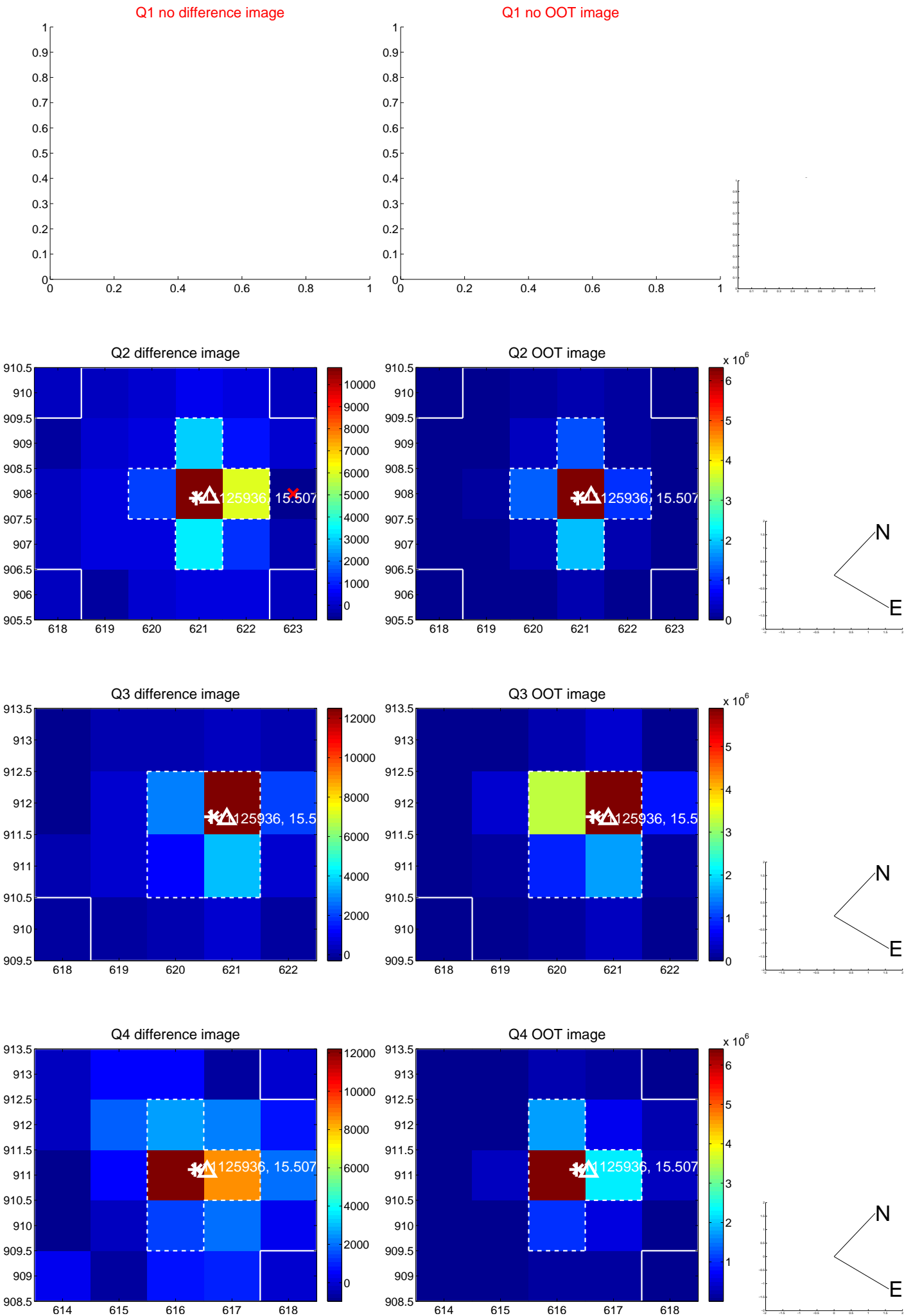
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.107 ± 0.076	14.58	0.922 ± 0.070	0.613 ± 0.081
PRF-fit source offset from KIC position	0.950 ± 0.079	11.98	0.837 ± 0.075	0.449 ± 0.079
photometric centroid source offset	1.14 ± 0.16	7.31	0.94 ± 0.16	0.65 ± 0.15

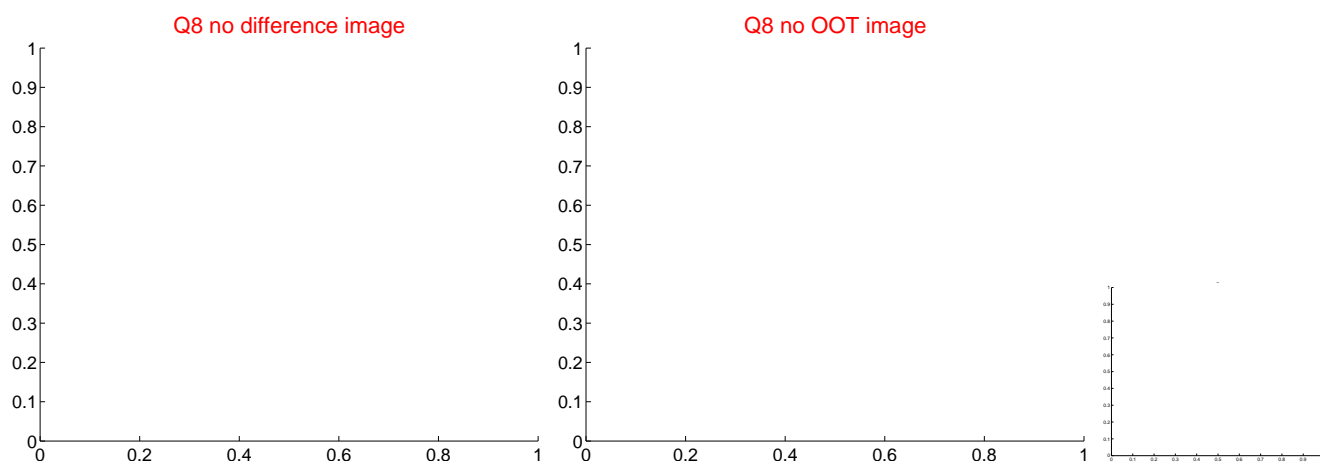
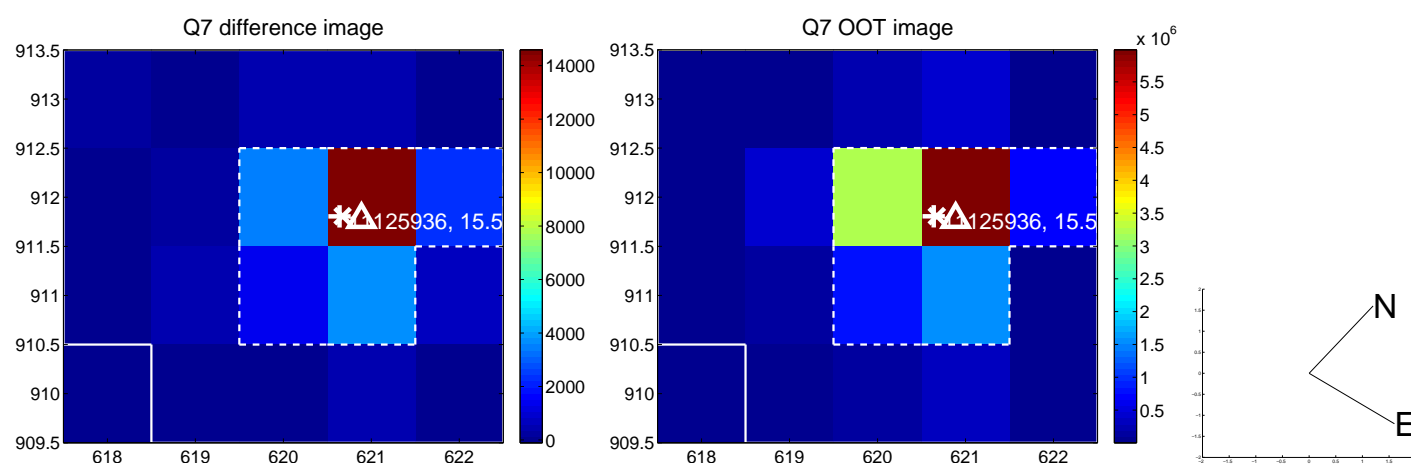
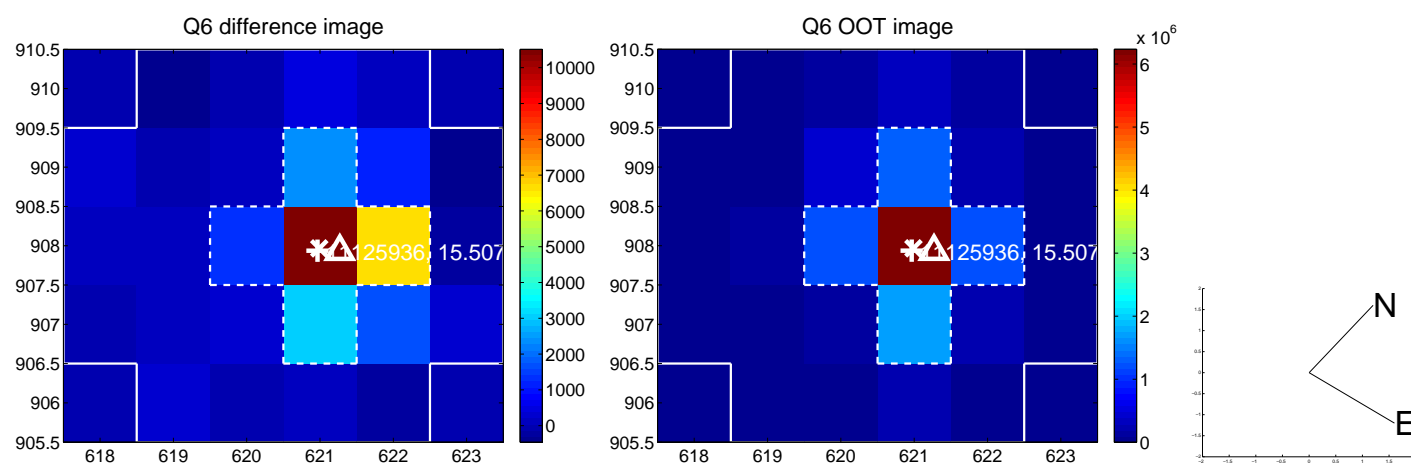
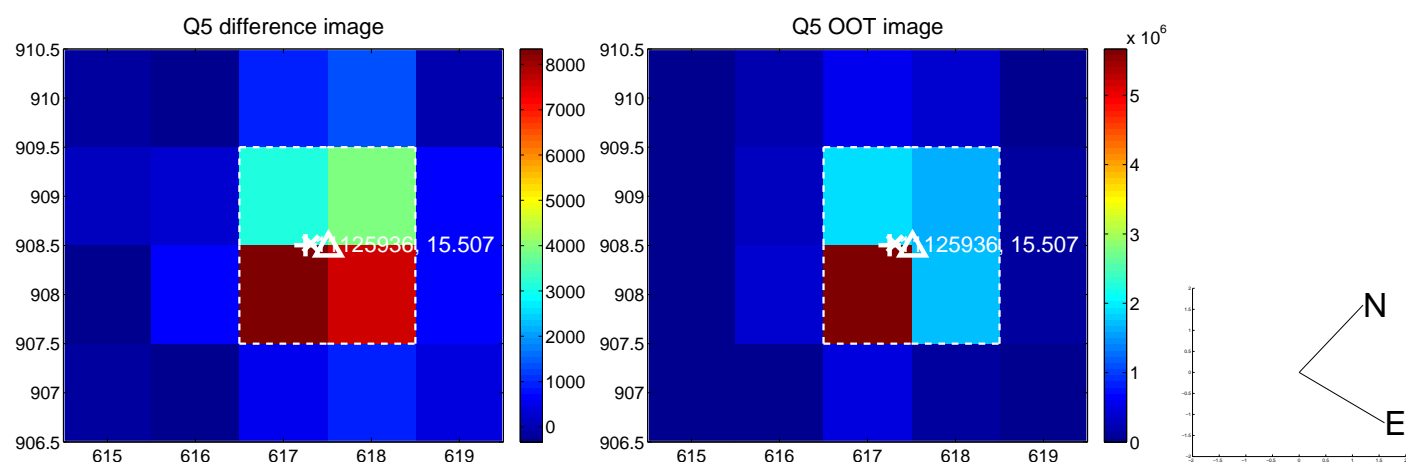


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

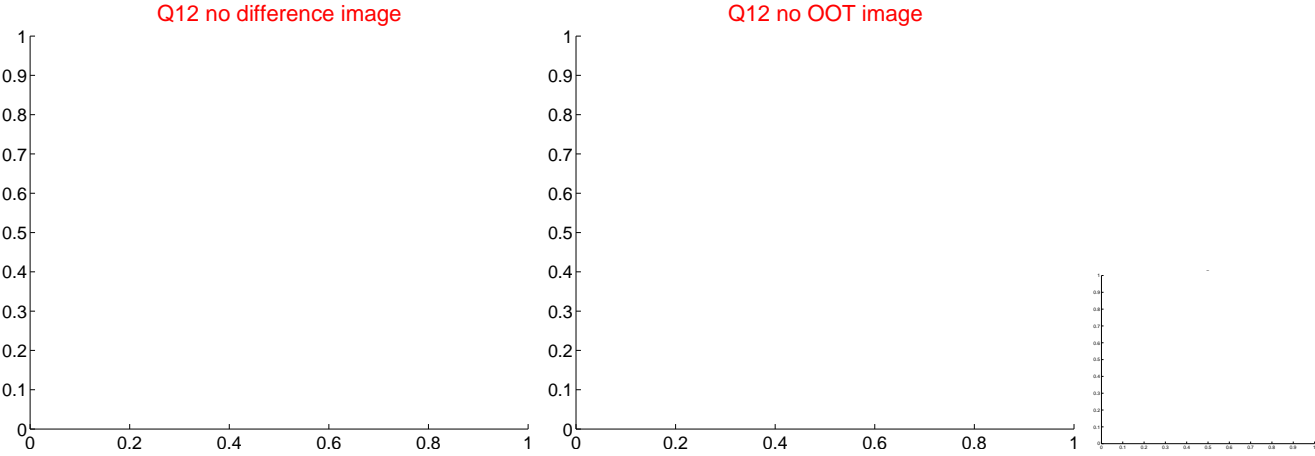
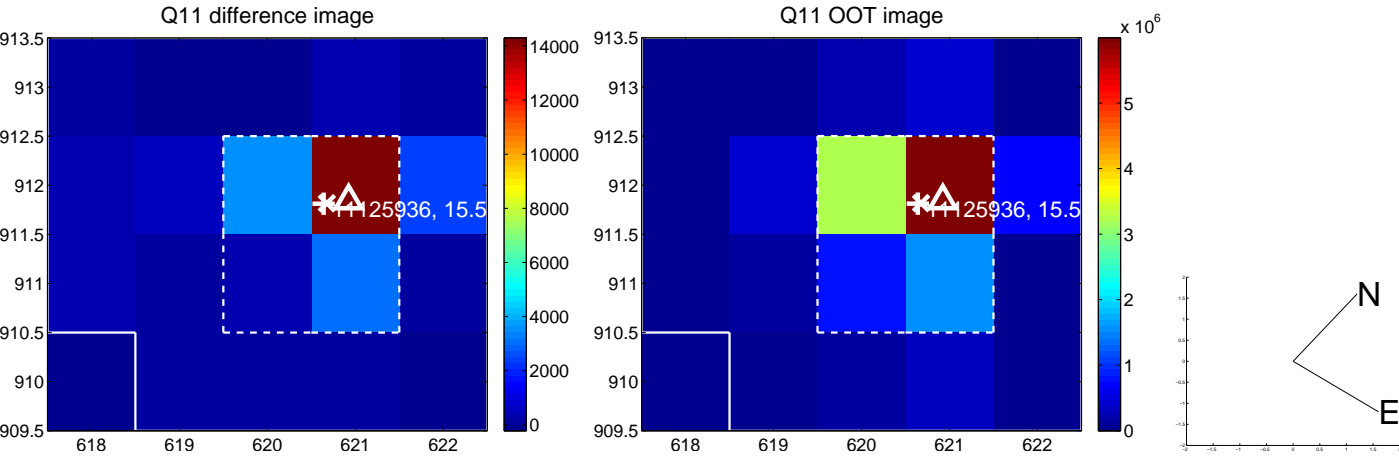
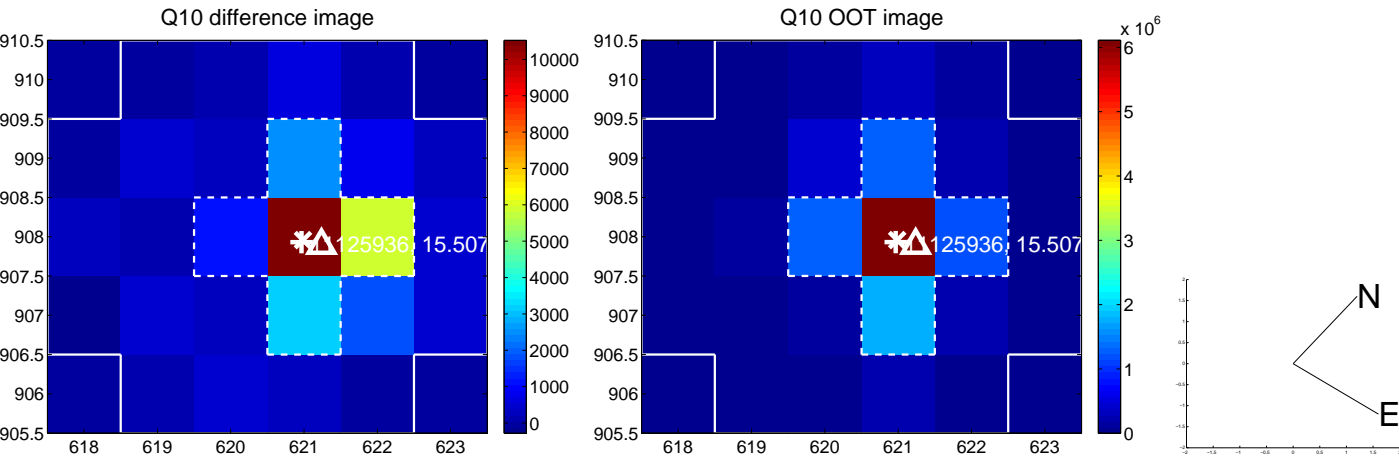
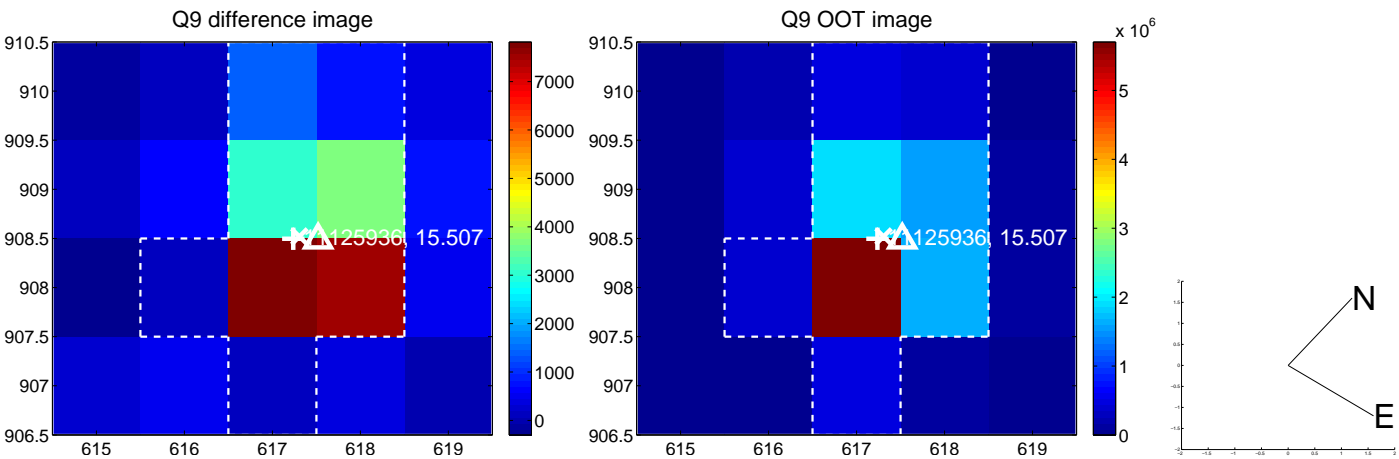
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



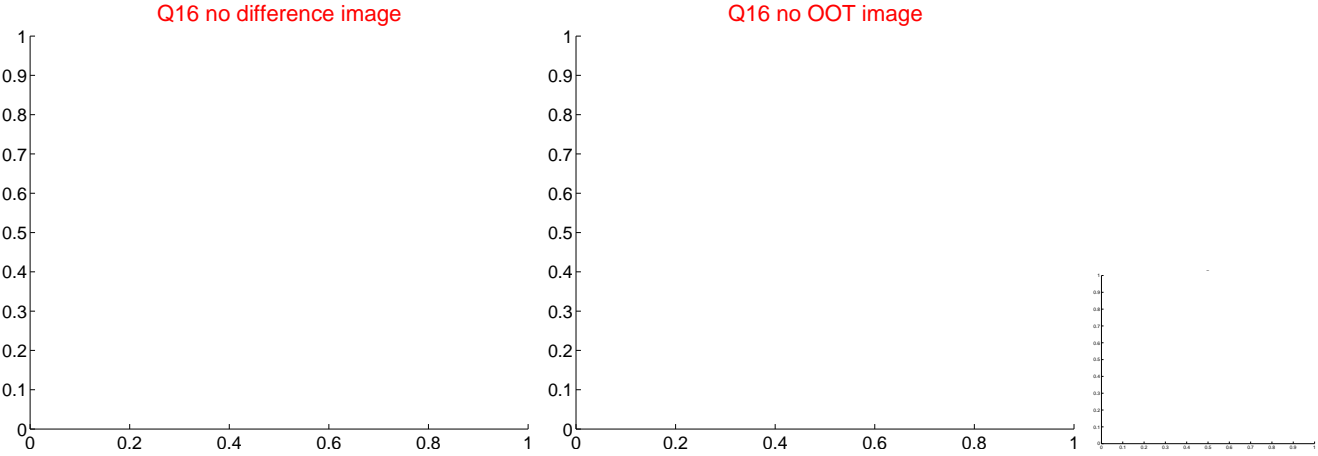
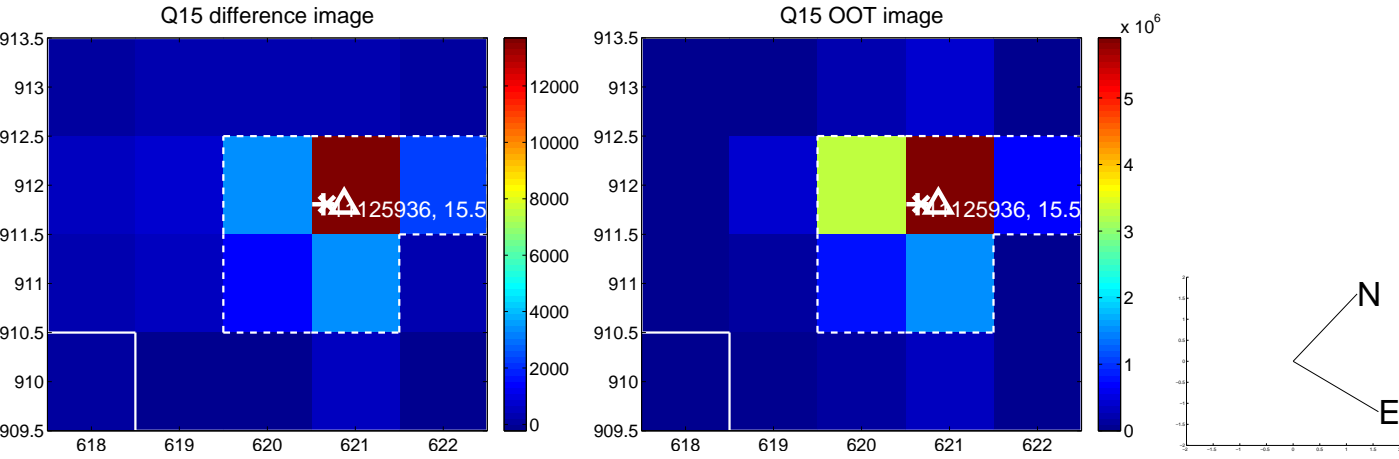
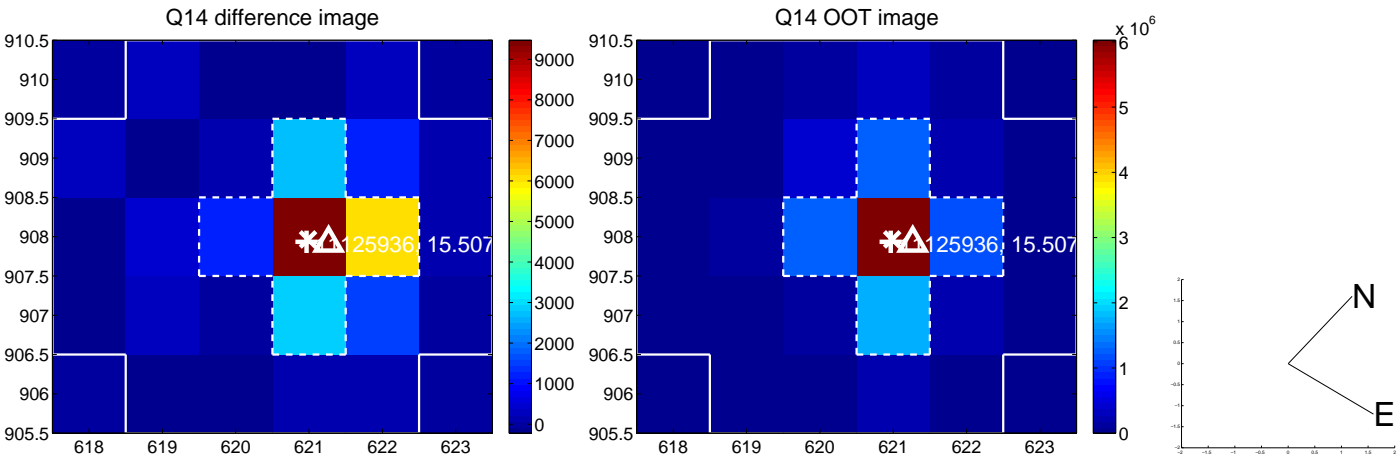
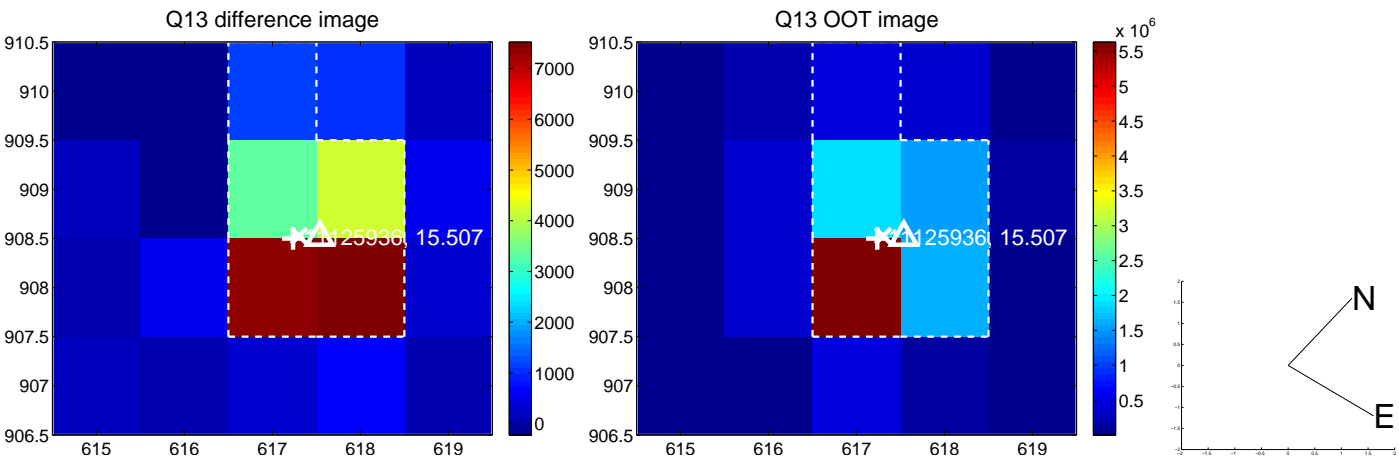
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



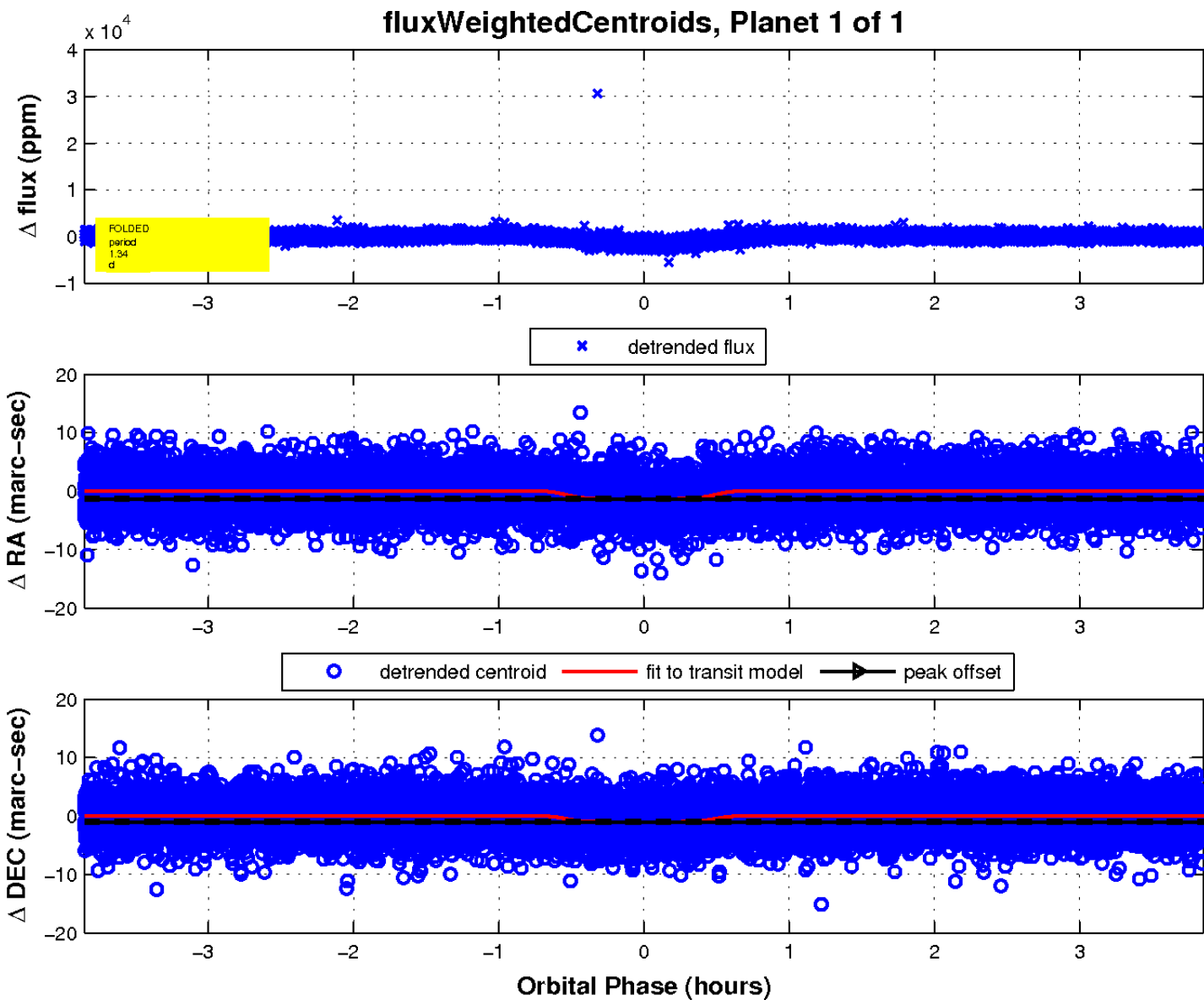
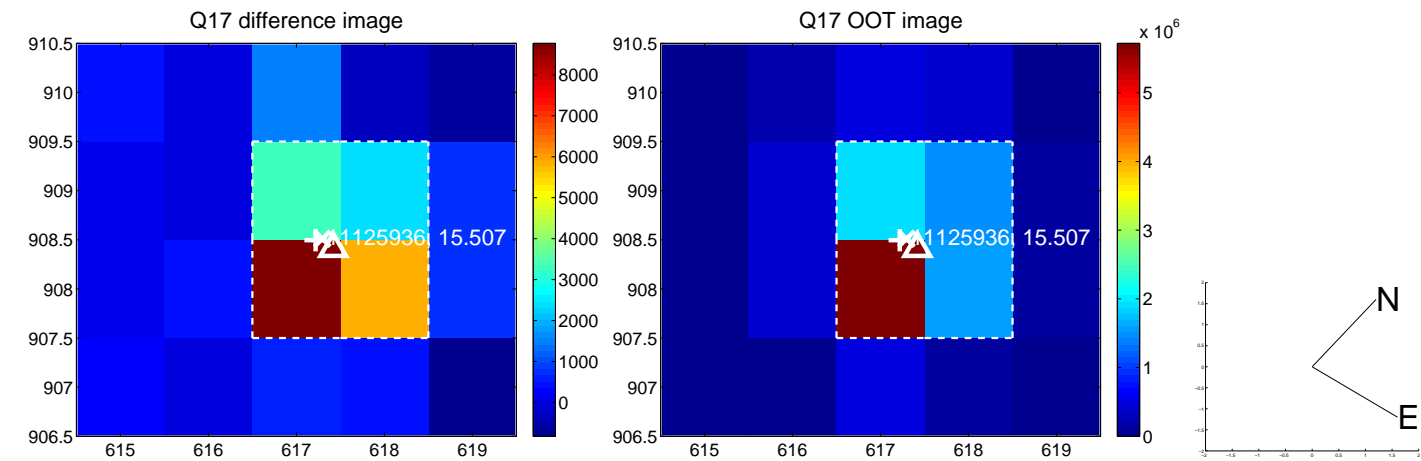
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

