

KIC 011752632

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})
011752632-01	OBS	2492.01	0.984926	132.336667	53.8	2.456	18.2	16.4	1.66	5825	1.45	7035.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011752632-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

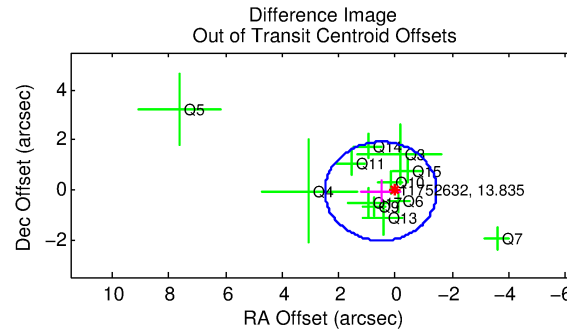
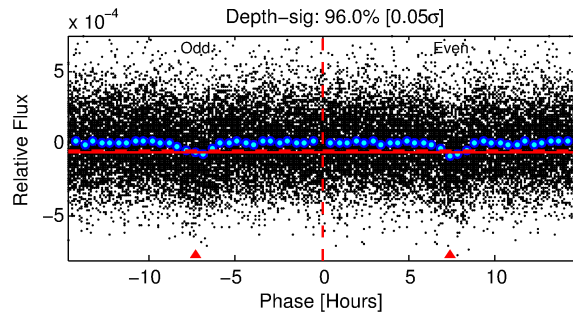
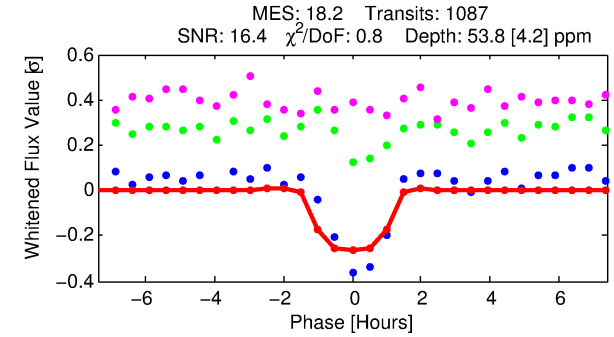
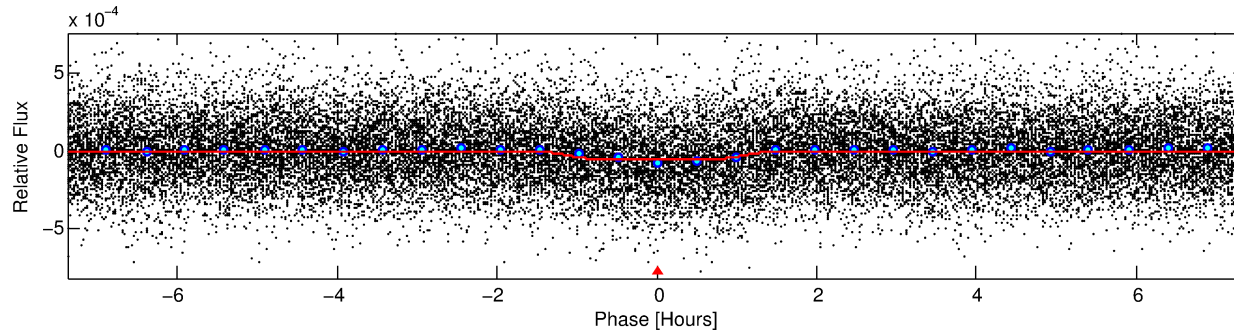
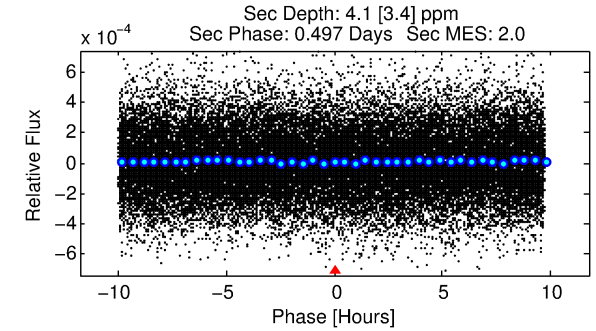
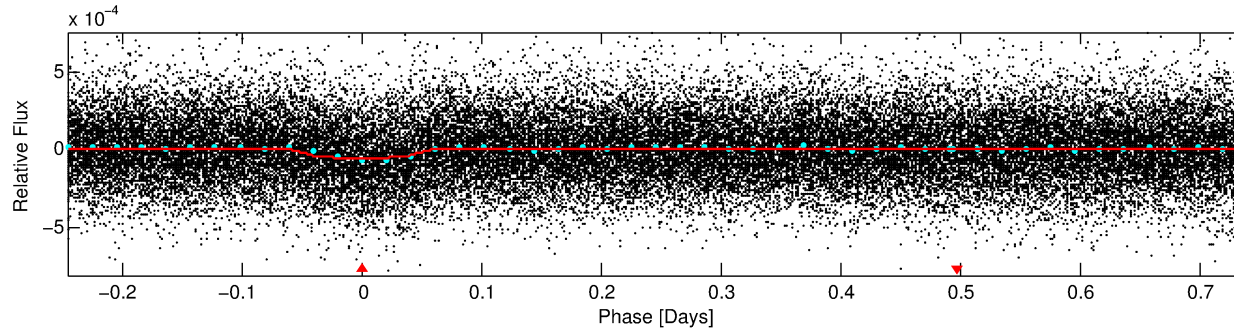
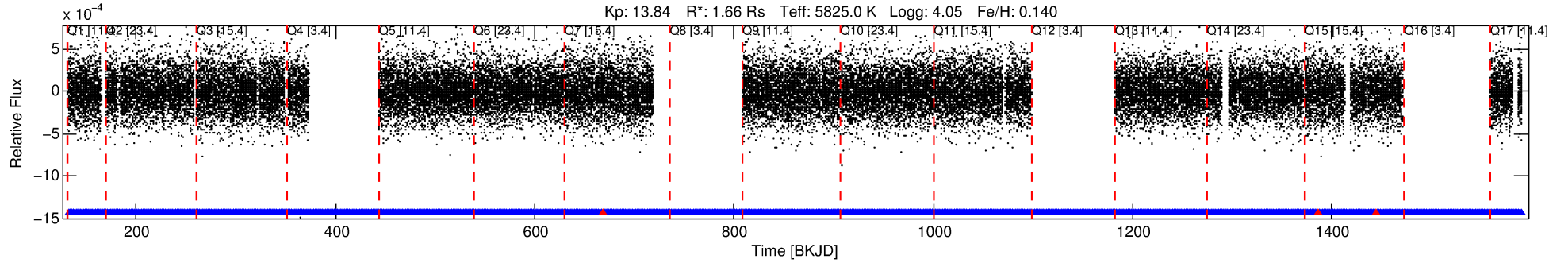
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011752632-01

No Significant Match Found

DV One-Page Summary

KIC: 11752632 Candidate: 1 of 1 Period: 0.985 d
KOI: K02492.01 Corr: 0.874



DV Fit Results:

Period = 0.98493 [0.00001] d
Epoch = 132.3367 [0.0020] BKJD
Rp/R* = 0.0080 [0.0036]
a/R* = 1.67 [2.36]
b = 0.90 [0.47]
Seff = 7035.48 [2400.91]
Teq = 2335 [199] K
Rp = 1.45 [0.74] Re
a = 0.0201 [0.0043] AU
Ag = 0.43 [0.55] [-1.04σ]
Teffp = 2922 [901] K [0.64σ]

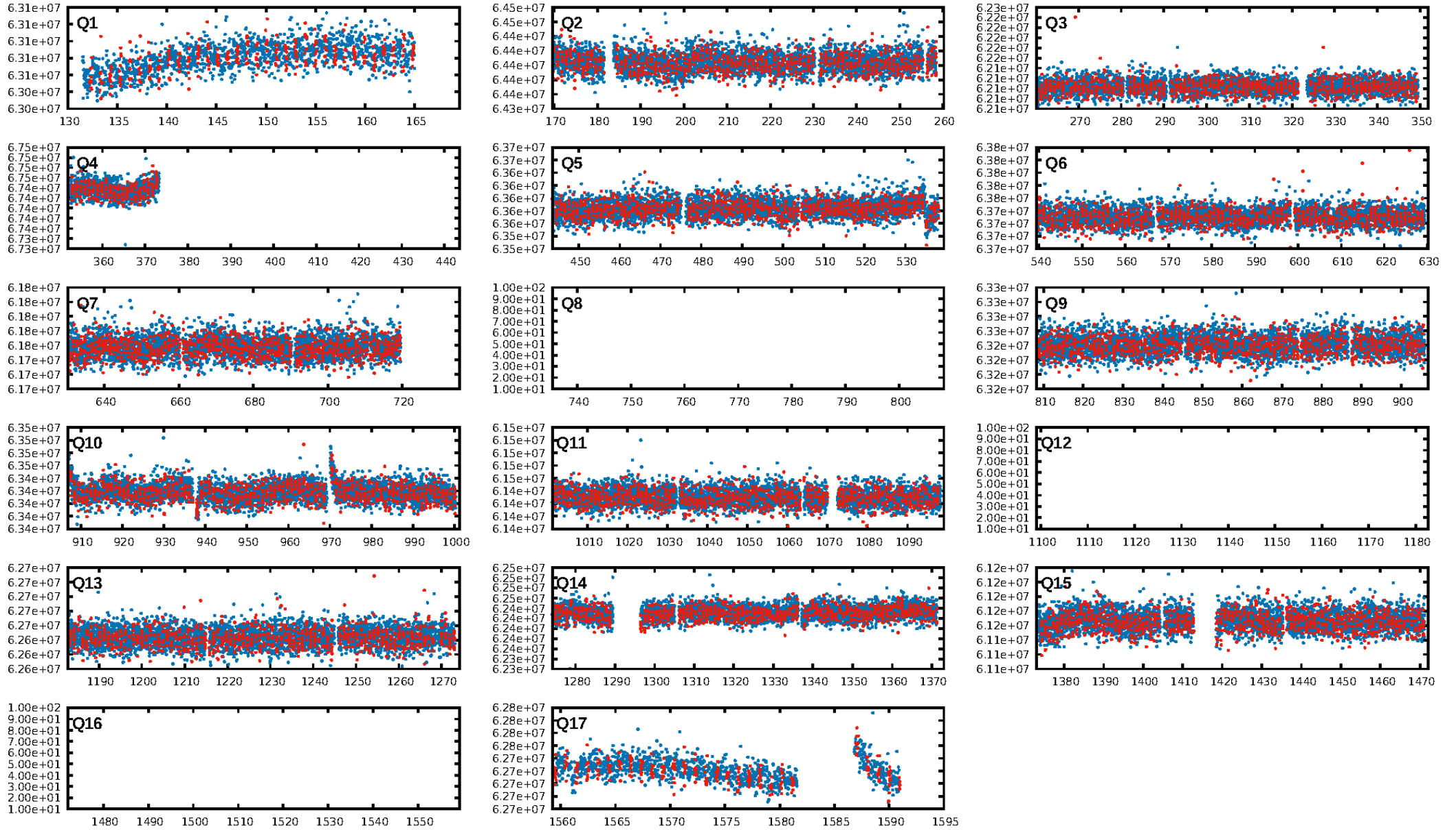
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.34e-153
RollingBand-fgt: 1.00 [1001/1004]
GhostDiagnostic-chr: -49.34
Centroid-sig: N/A
Centroid-so: 0.460 arcsec [0.55σ]
OotOffset-rm: 0.516 arcsec [0.78σ]
KicOffset-rm: 0.571 arcsec [0.73σ]
OotOffset-st: 3/4/1/4 [12]
KicOffset-st: 3/4/1/4 [12]
DiffImageQuality-fgm: 0.75 [9/12]
DiffImageOverlap-fno: 1.00 [14/14]

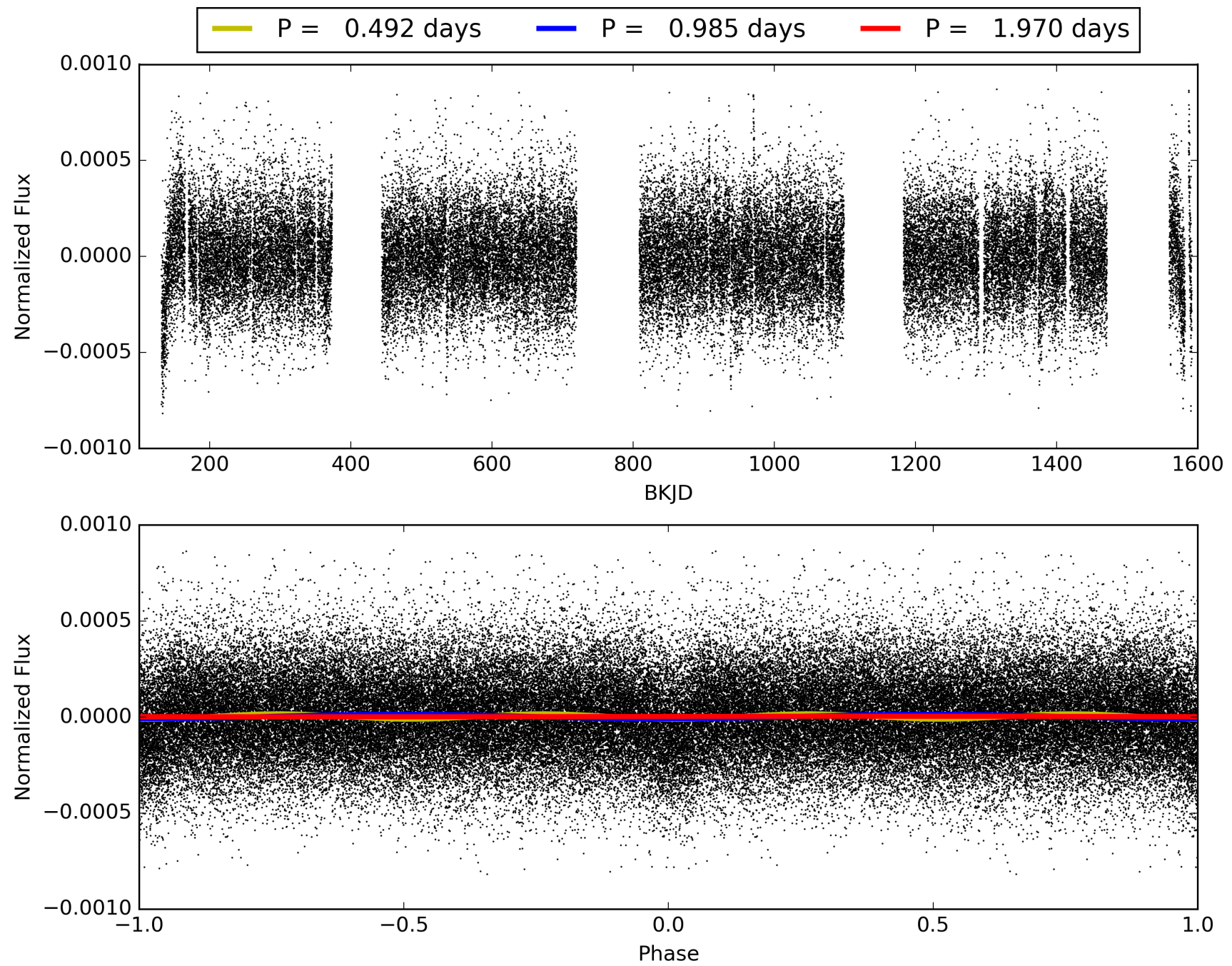
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 01:31:16 Z

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

TCE 011752632-01, PDC Light Curves

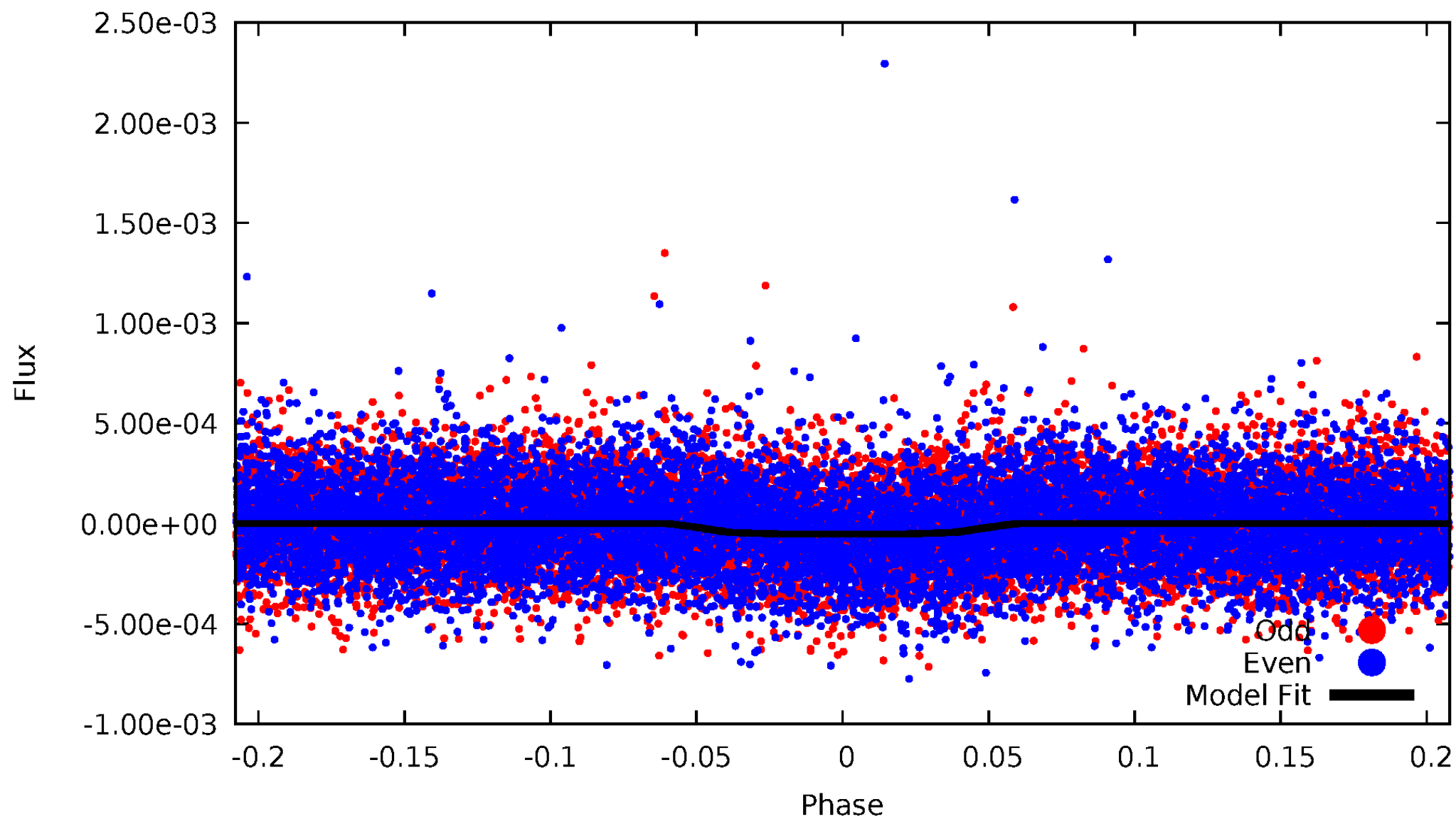


TCE 011752632-01



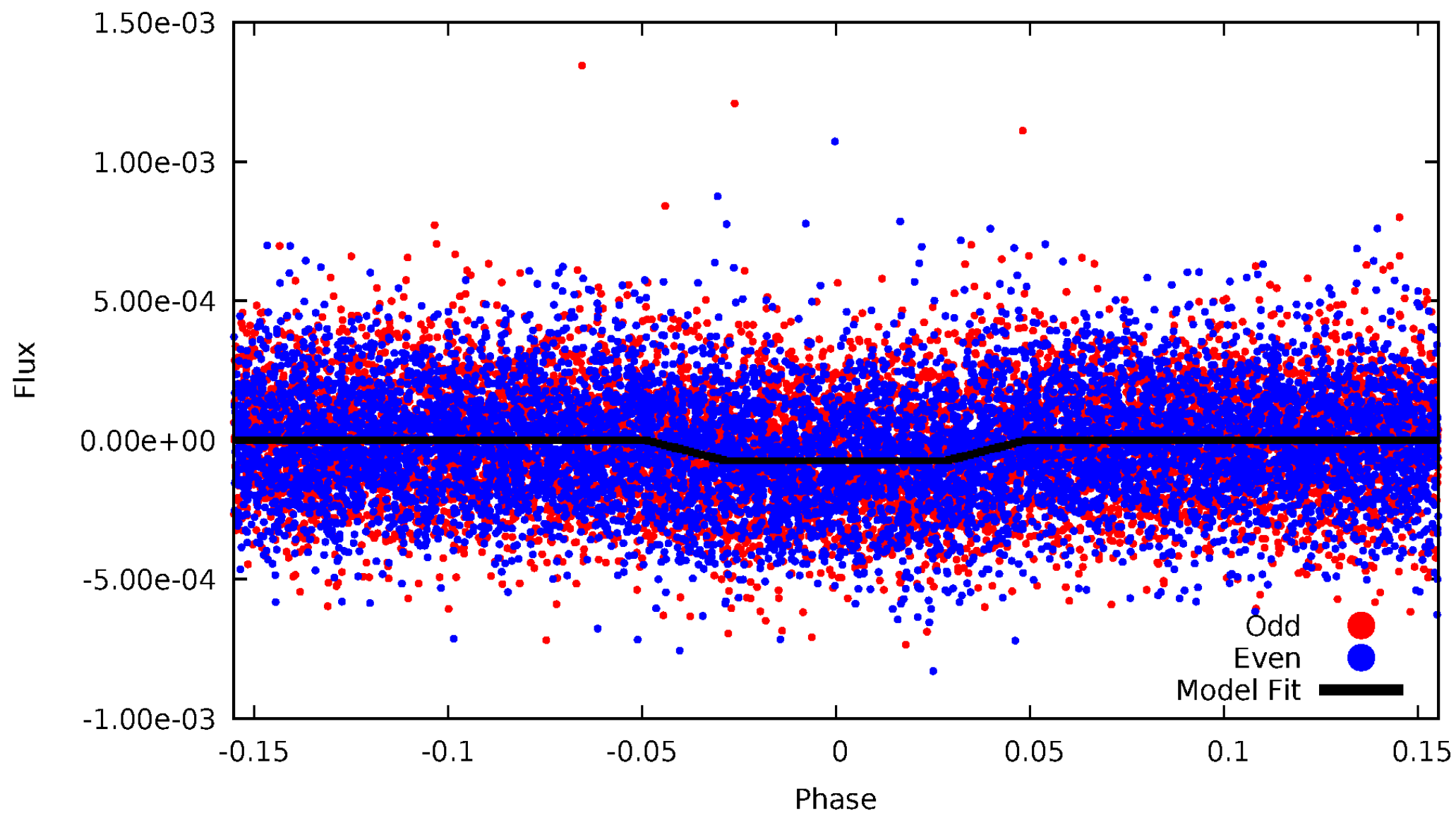
DV Odd/Even

TCE 011752632-01

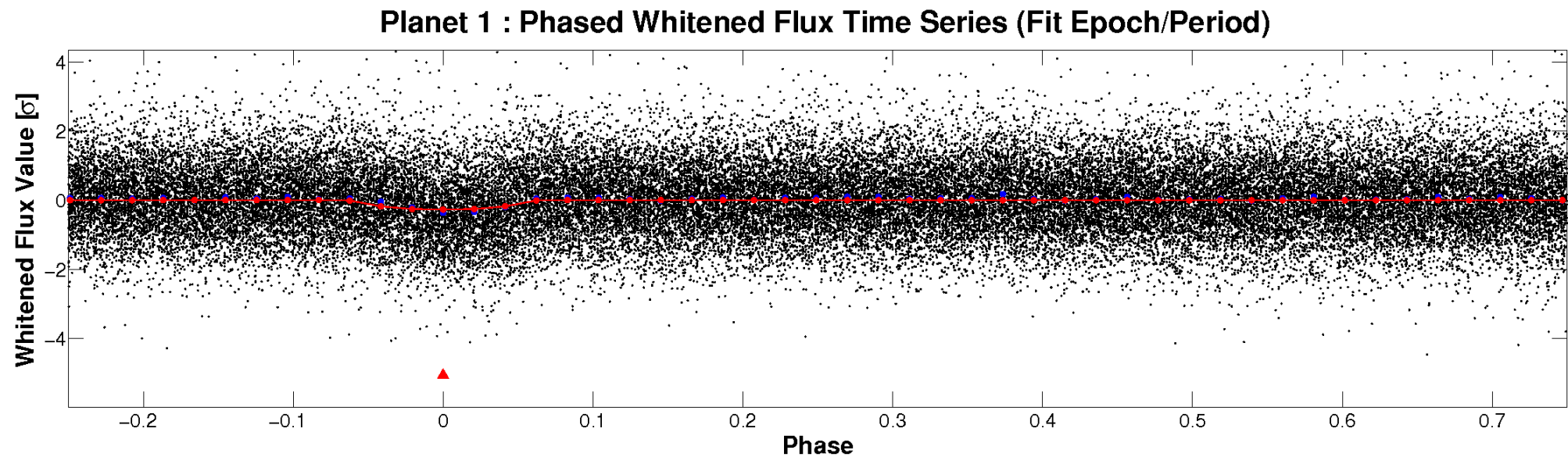
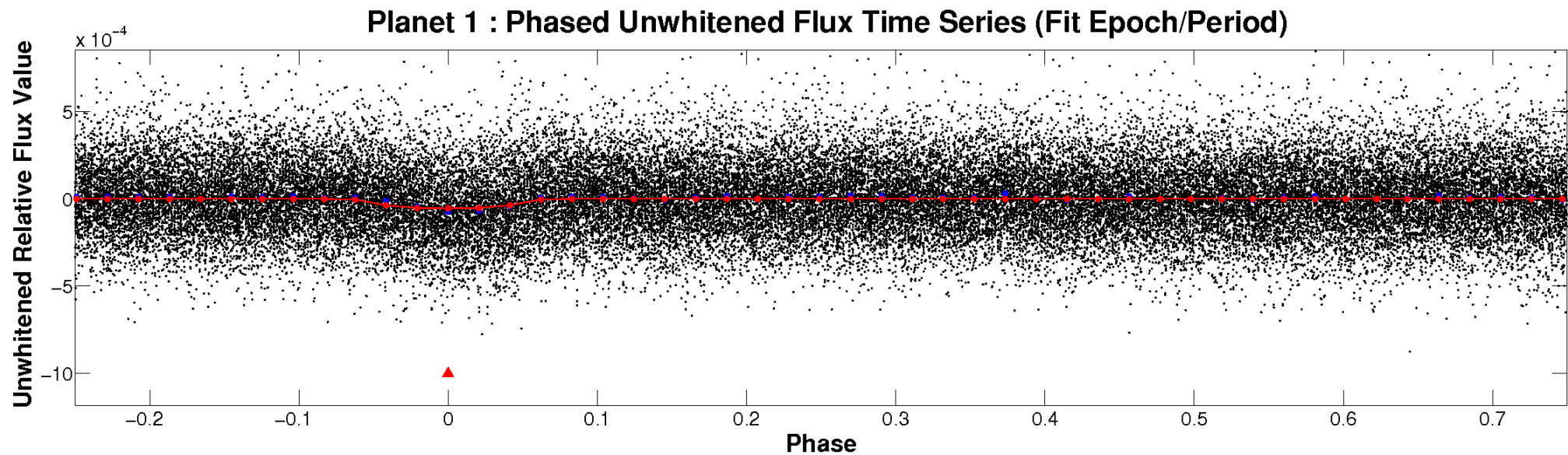


ALT Odd/Even

TCE 011752632-01

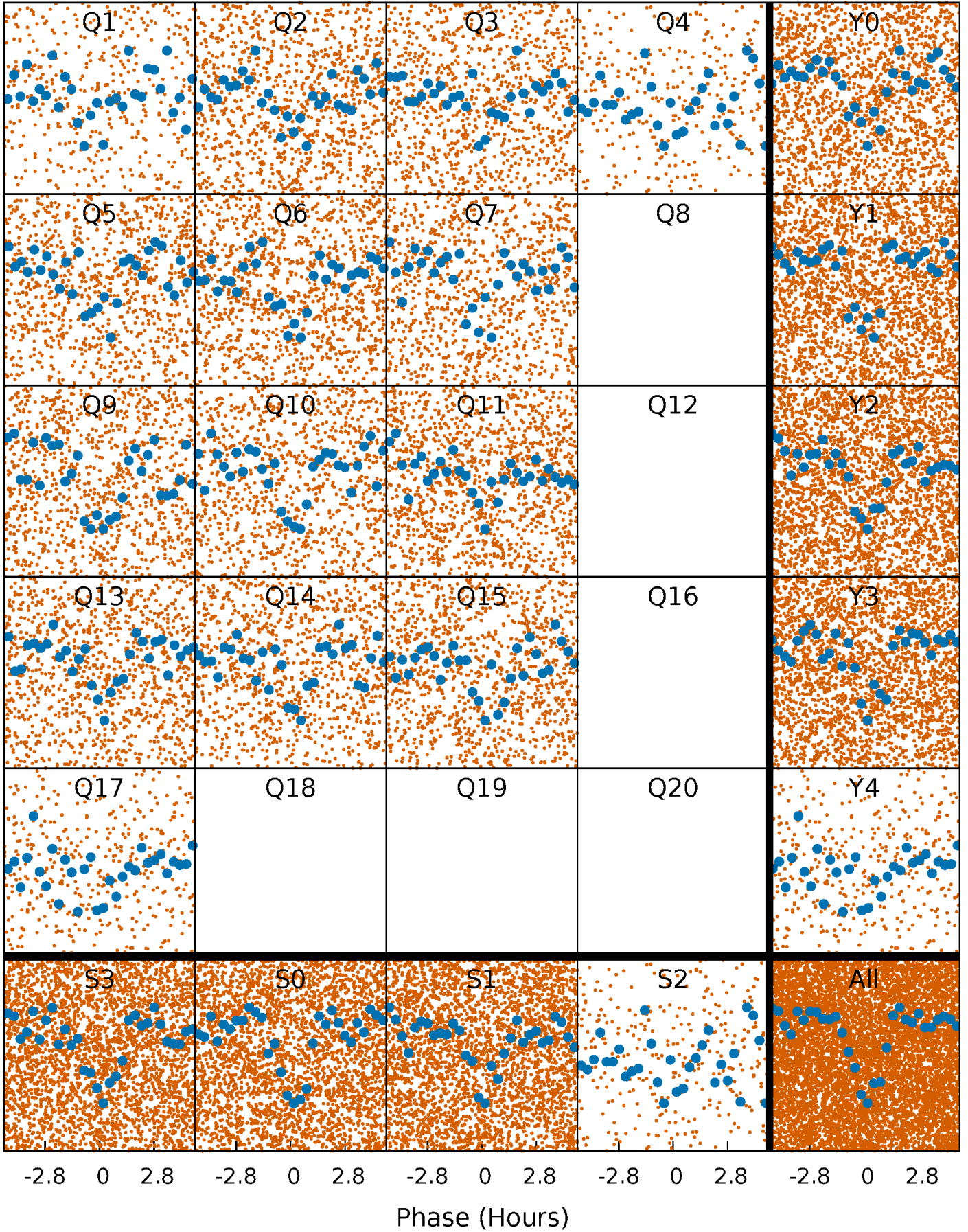


Non-Whitened Vs. Whitened Light Curve



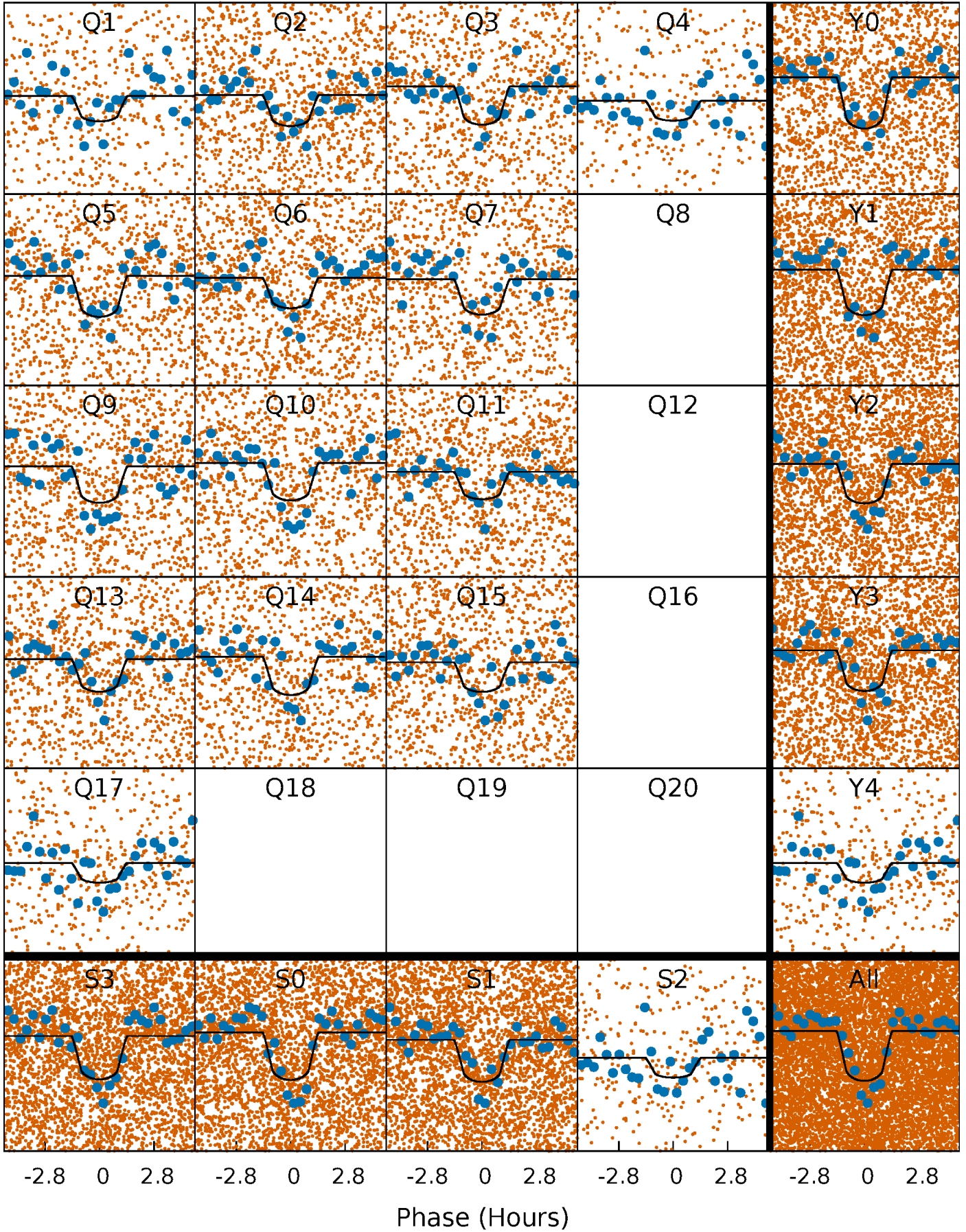
PDC Quarter-Phased Transit Curves

TCE 011752632-01 P= 0.984926 Days $T_0=132.336667$ (BKJD)



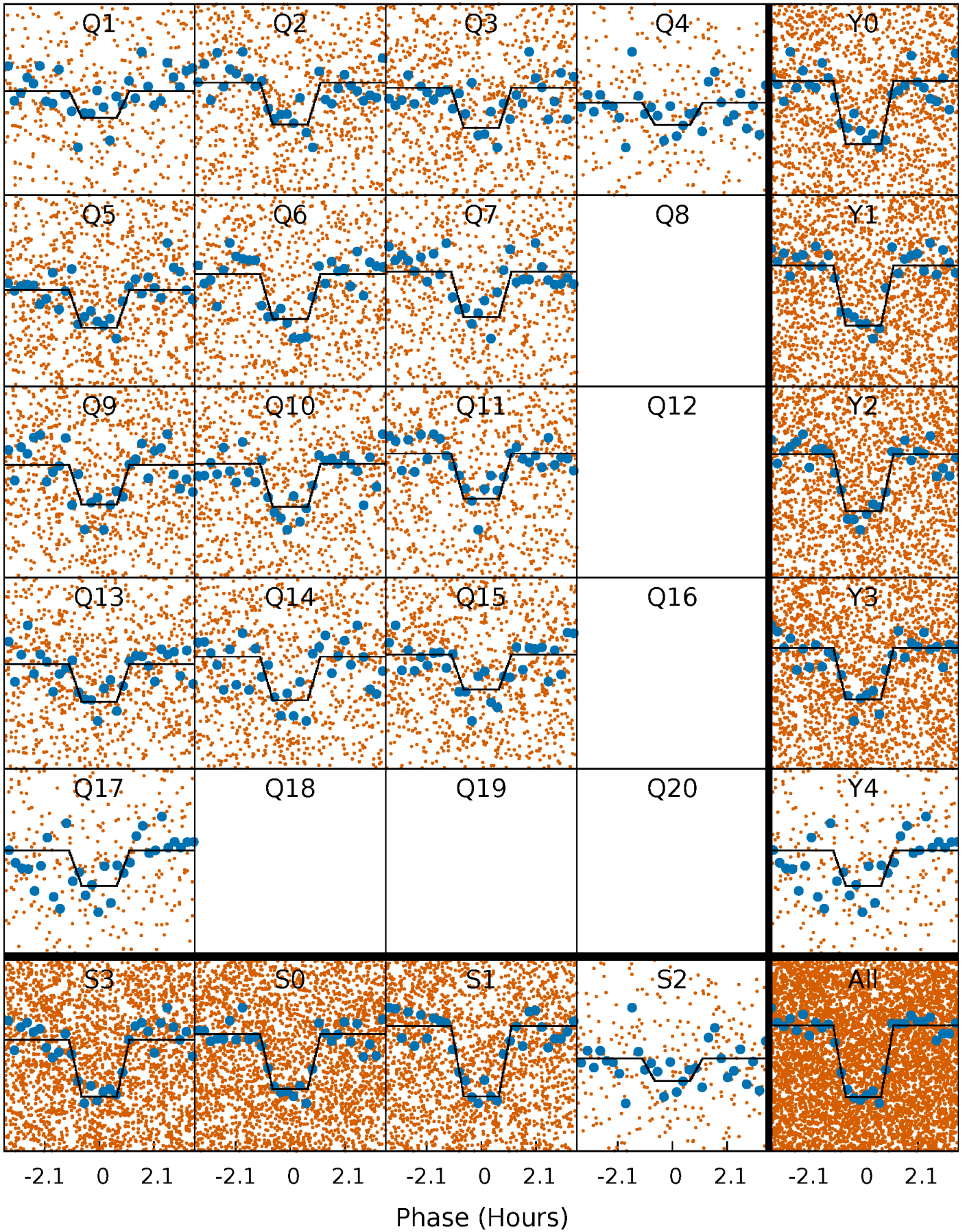
DV Quarter-Phased Transit Curves

TCE 011752632-01 P= 0.984926 Days $T_0=132.336667$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

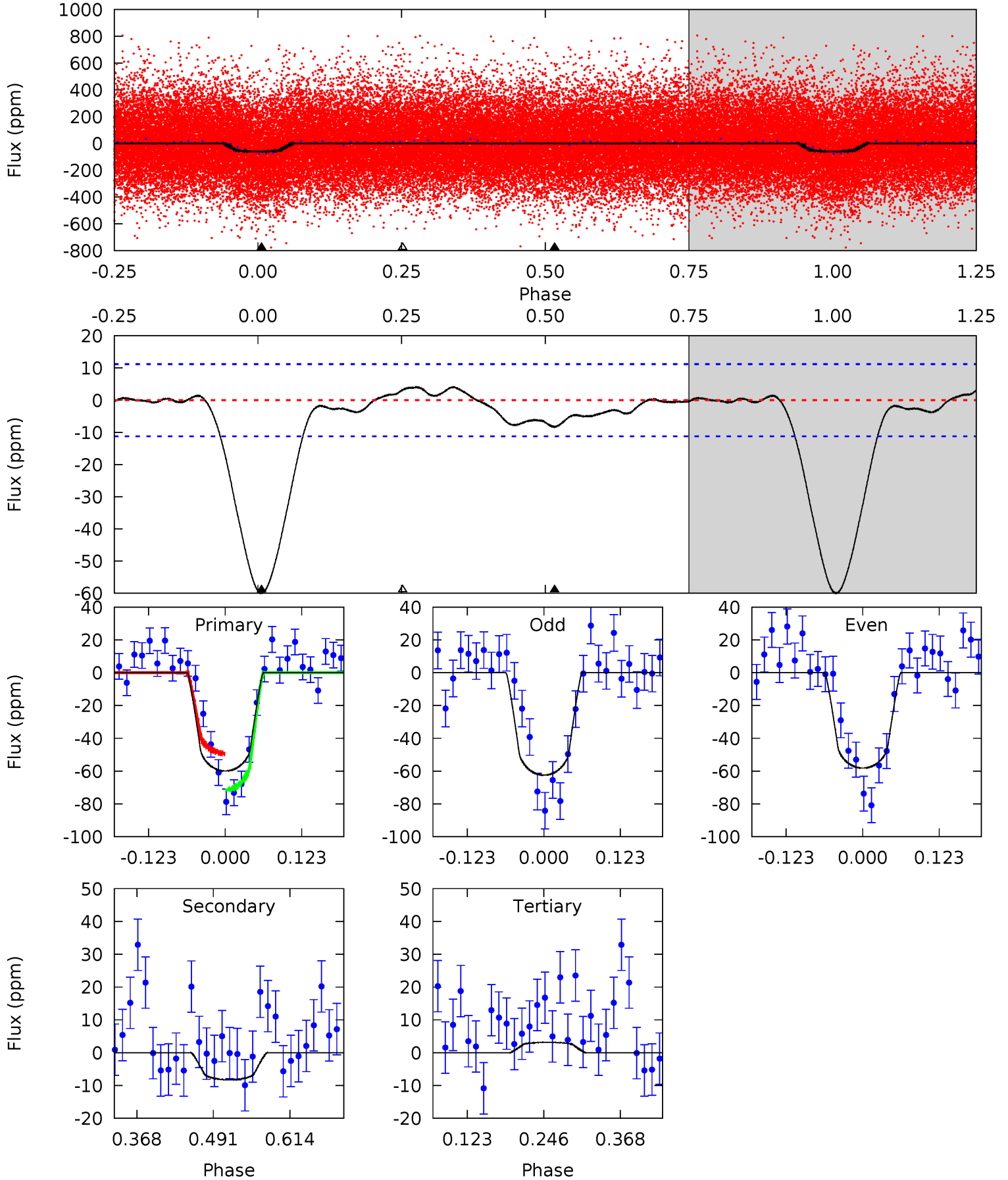
TCE 011752632-01 P= 0.984942 Days $T_0=132.333306$ (BKJD)



DV Model-Shift Uniqueness Test

011752632-01, P = 0.984926 Days, E = 131.351741 Days

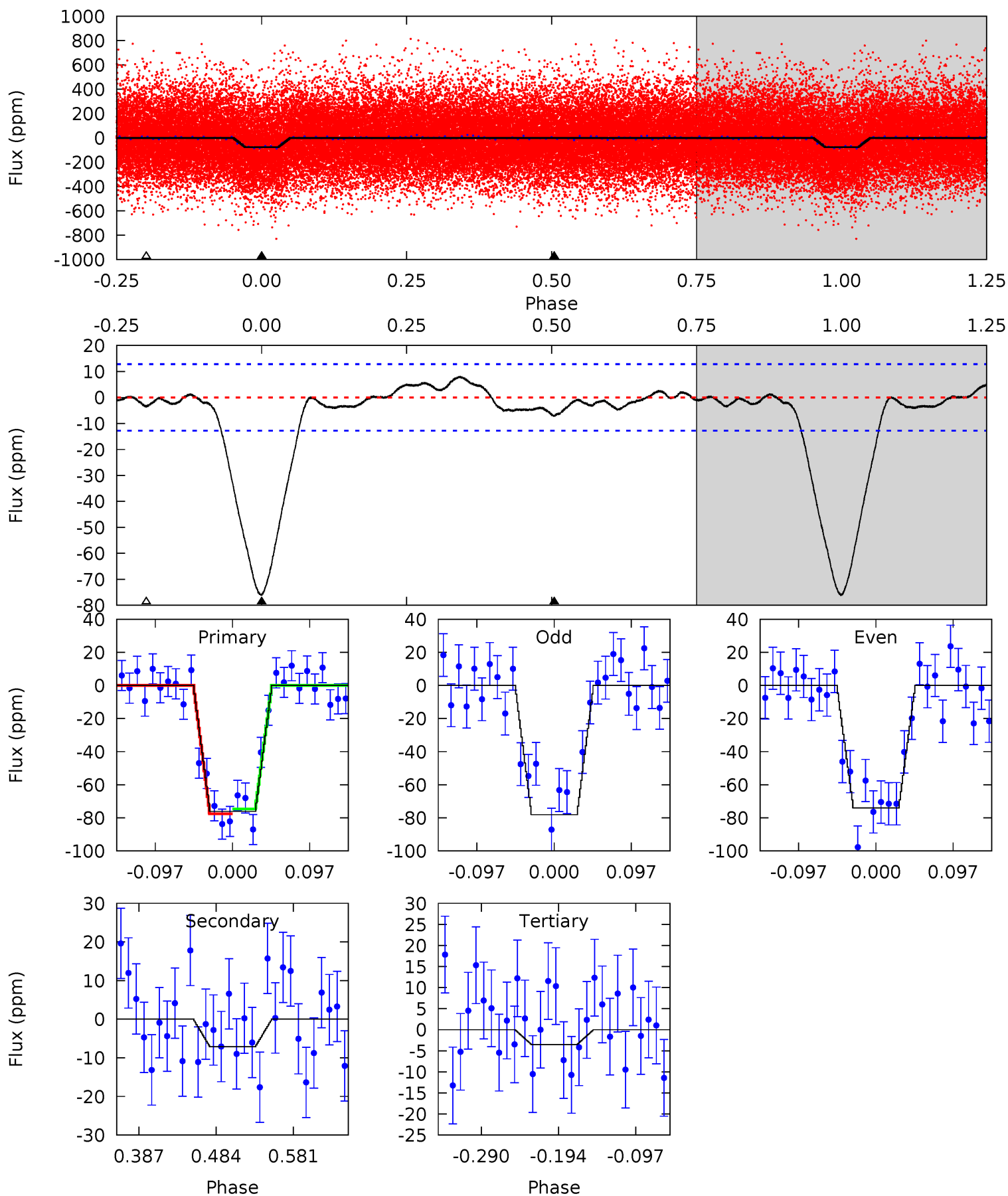
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.2	3.34	-1.28	0	4.52	1.54	0.83	25.4	24.2	4.62	3.34	0.87	1.02	0.06	4.52



Alt Model-Shift Uniqueness Test

011752632-01, P = 0.984942 Days, E = 131.348364 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.2	2.55	1.27	0	4.57	1.66	1.11	25.9	27.2	1.29	2.55	0.72	1.02	0.10	0.53



Stellar Parameters For KIC 011752632

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5825^{+79}_{-79}	$4.046^{+0.196}_{-0.084}$	$0.140^{+0.150}_{-0.150}$	$1.662^{+0.252}_{-0.378}$	$1.121^{+0.131}_{-0.107}$	$0.344^{+0.347}_{-0.088}$
	+1%/-1%	+5%/-2%	+107%/-107%	+15%/-23%	+12%/-10%	+101%/-26%
Source	SPE90	SPE90	SPE90	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011752632-01 / KOI 2492.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-8 ± 2	$1.38^{+0.70}_{-0.62}$	3239^{+127}_{-198}	3631^{+1088}_{-874}	$0.982^{+2.244}_{-0.583}$
Alt.	-7 ± 3	$1.53^{+0.65}_{-0.62}$	3233^{+134}_{-194}	3297^{+959}_{-5480}	$0.654^{+1.380}_{-0.365}$

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

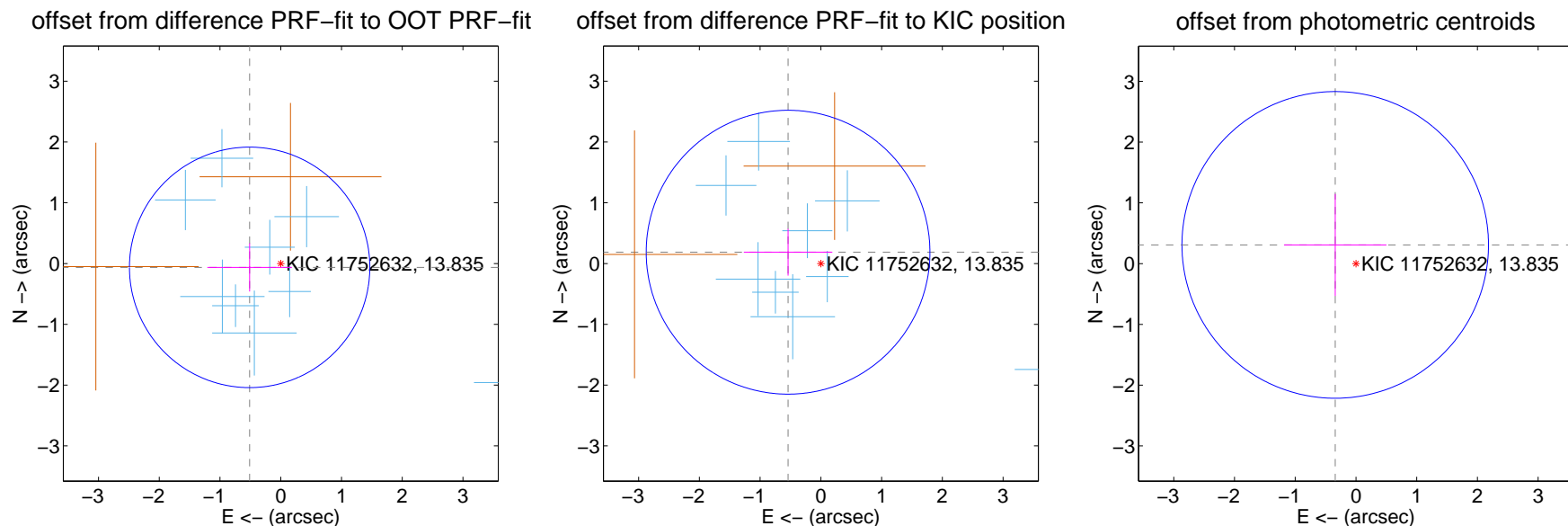
DV Centroid Data

Supplemental centroid analysis for 011752632-01. Kepler magnitude: 13.84. Transit SNR 16.37

There are 9 quarters with good PRF difference image offsets

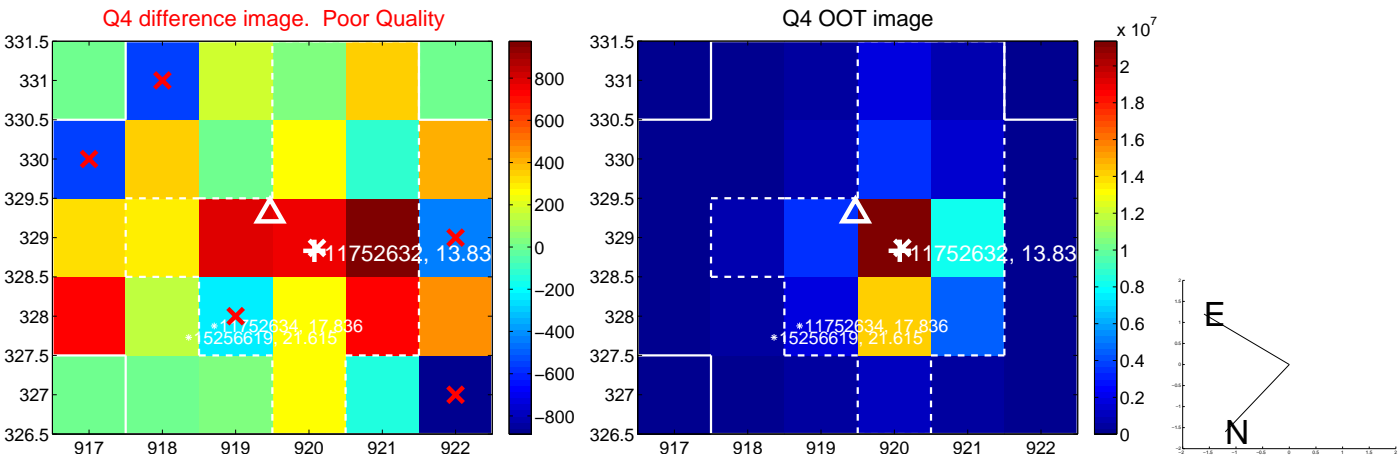
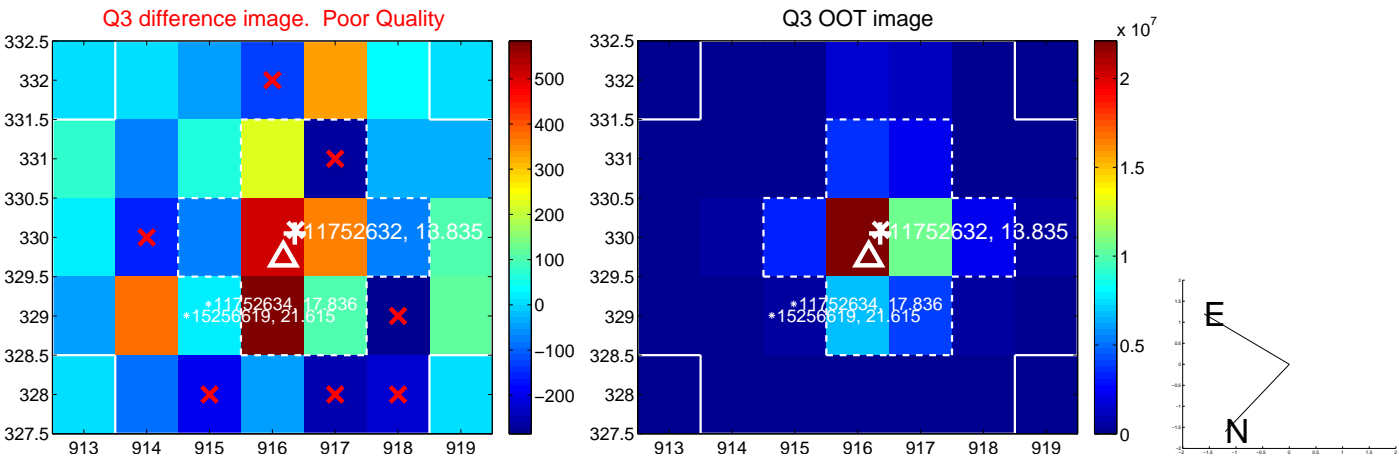
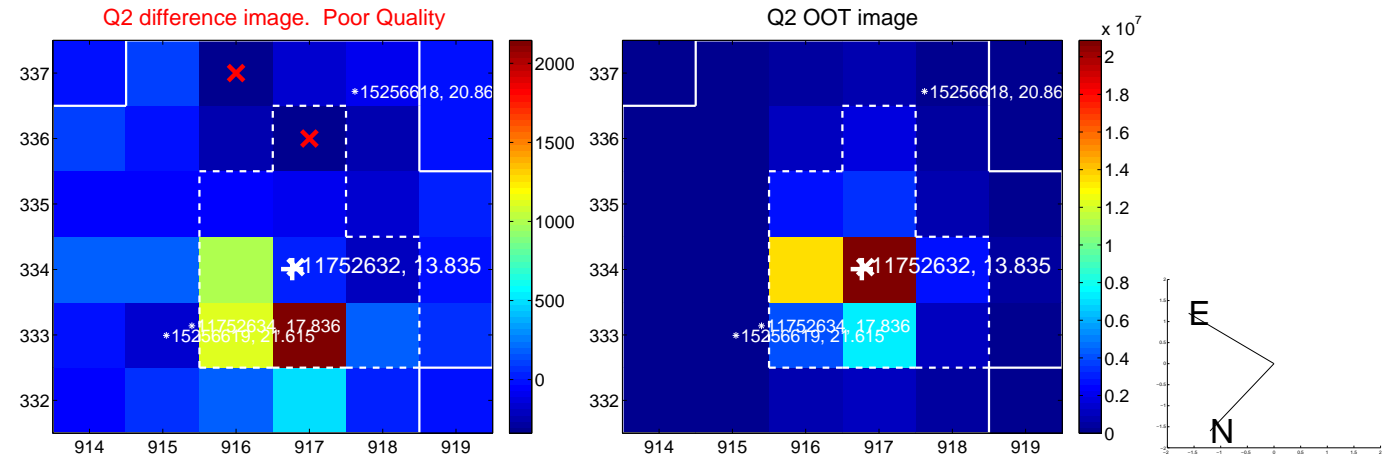
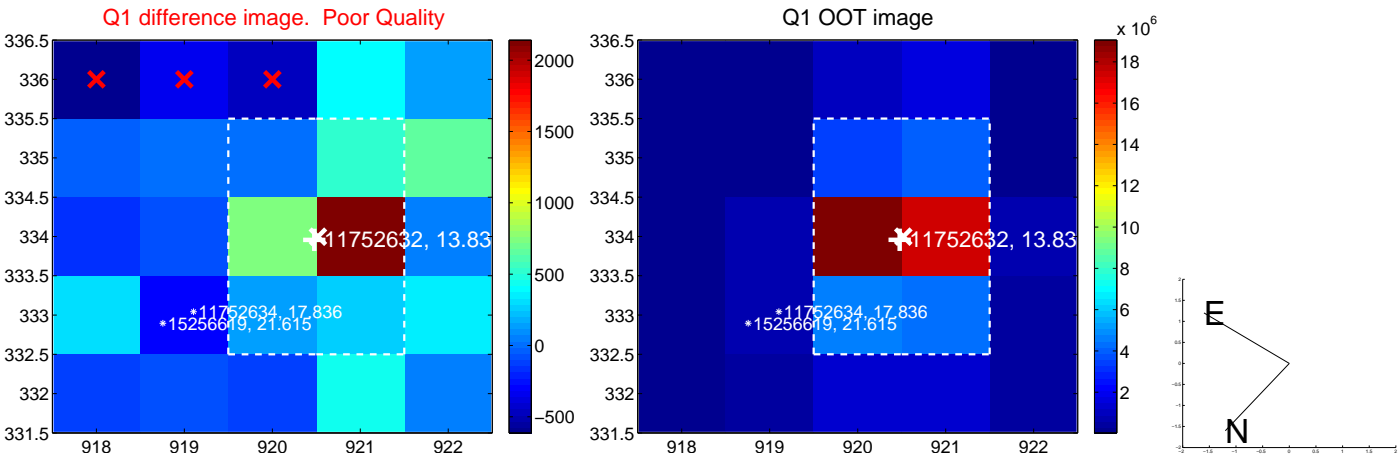
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.516 ± 0.660	0.78	0.512 ± 0.697	-0.063 ± 0.396
PRF-fit source offset from KIC position	0.571 ± 0.778	0.73	0.540 ± 0.728	0.186 ± 0.385
photometric centroid source offset	0.46 ± 0.84	0.55	0.34 ± 0.84	0.31 ± 0.84

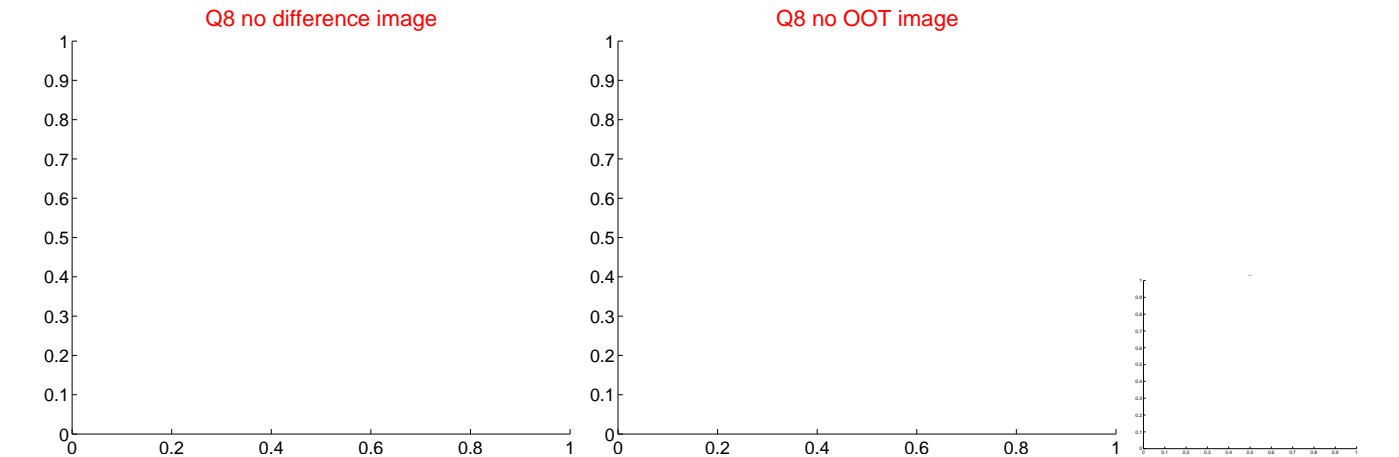
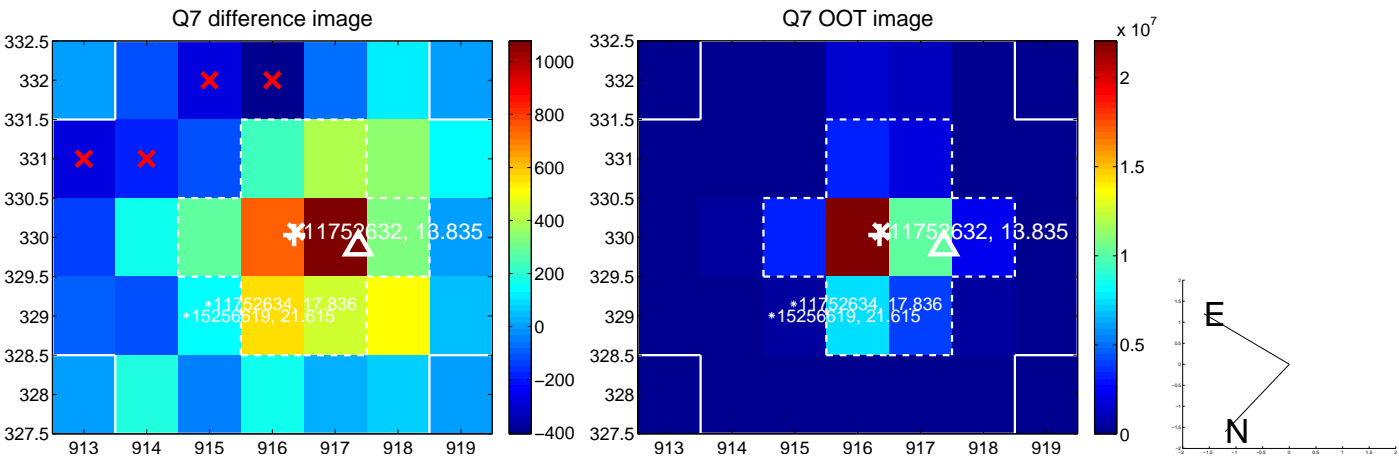
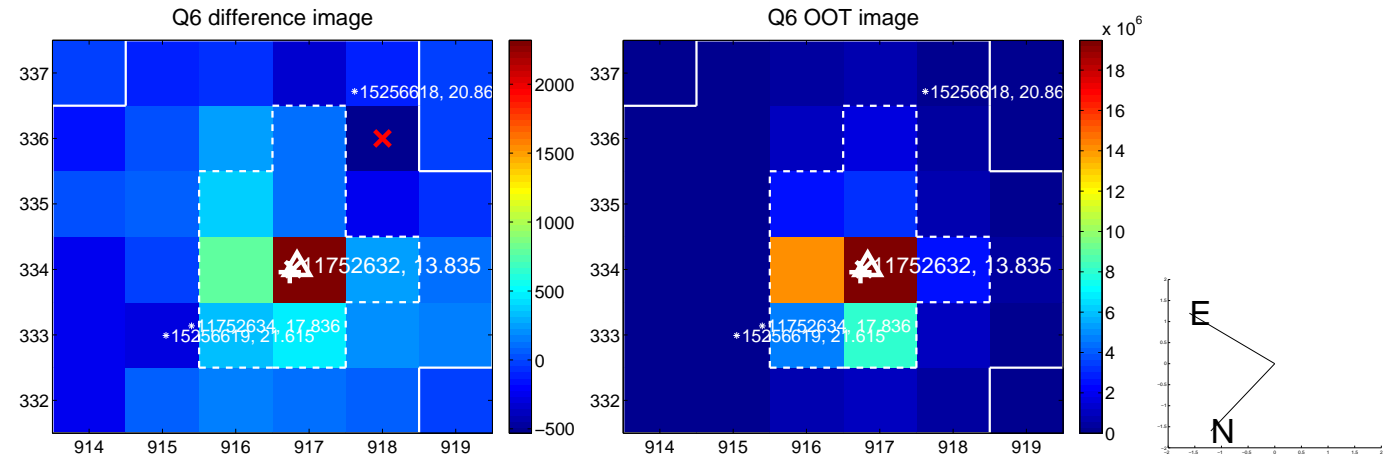
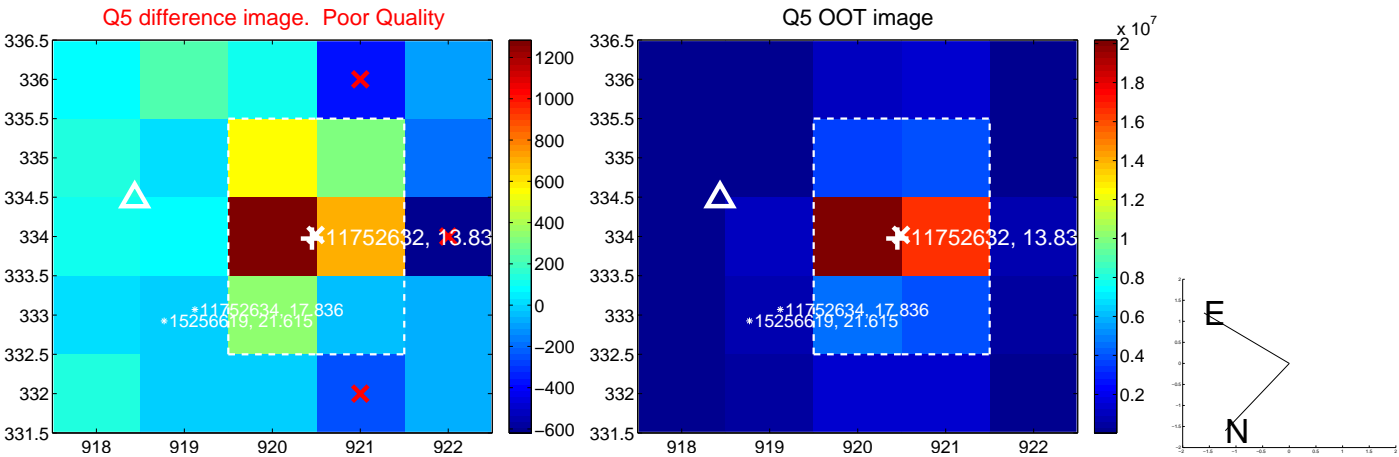


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

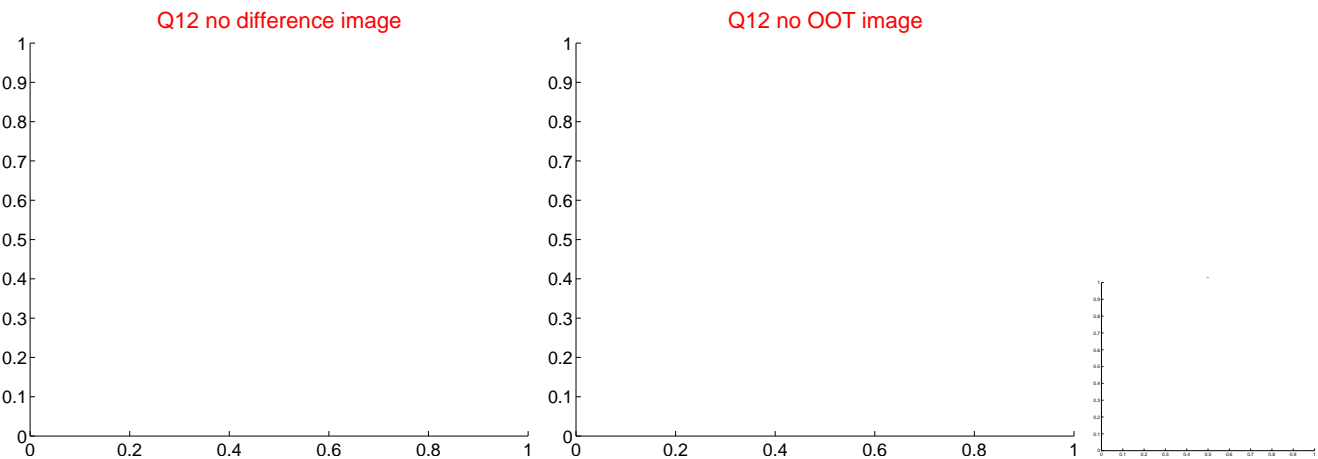
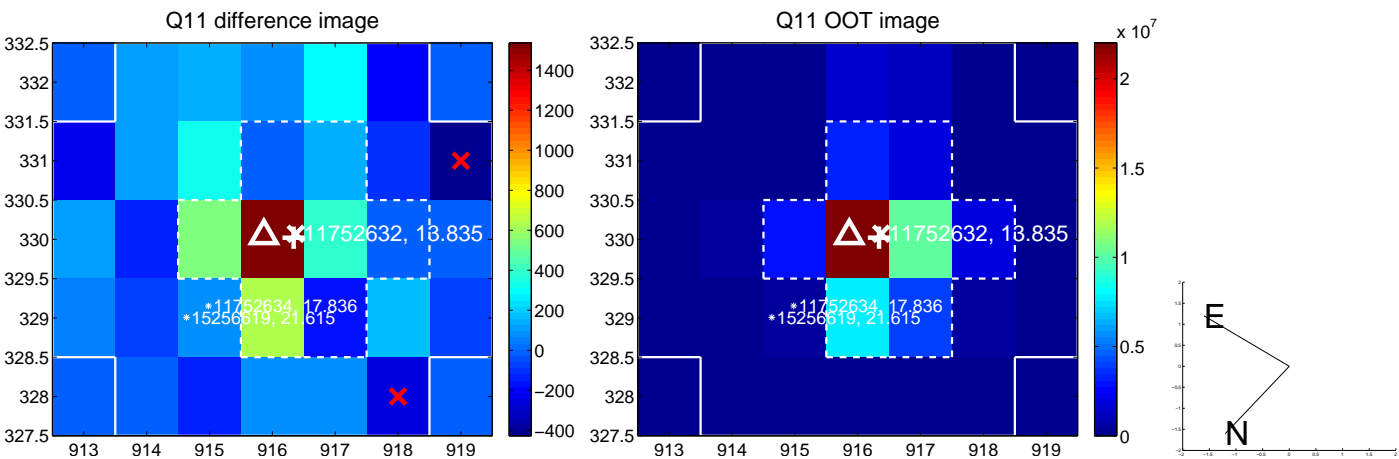
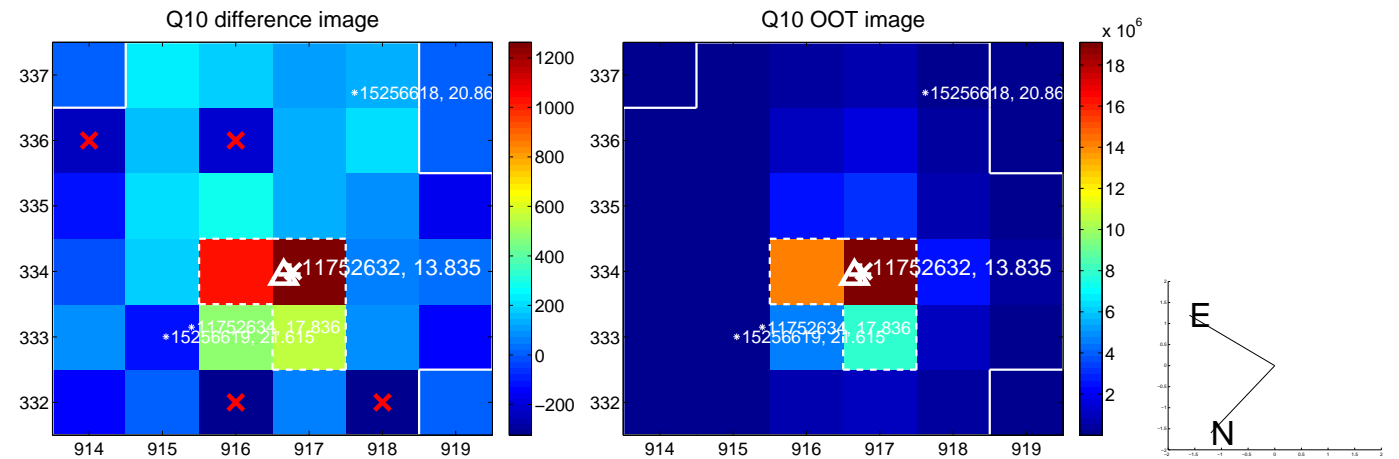
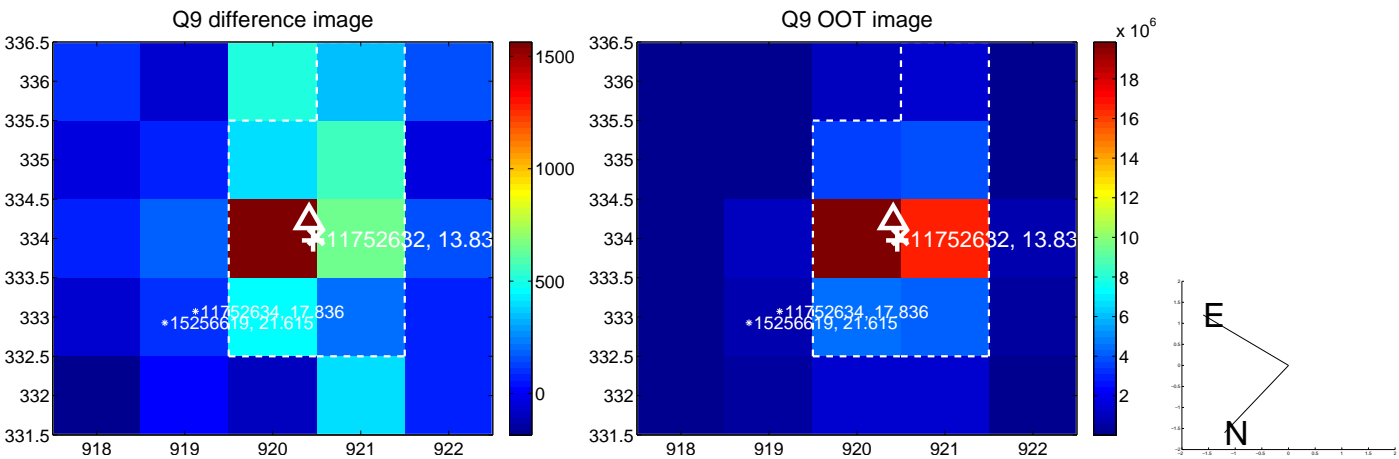
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



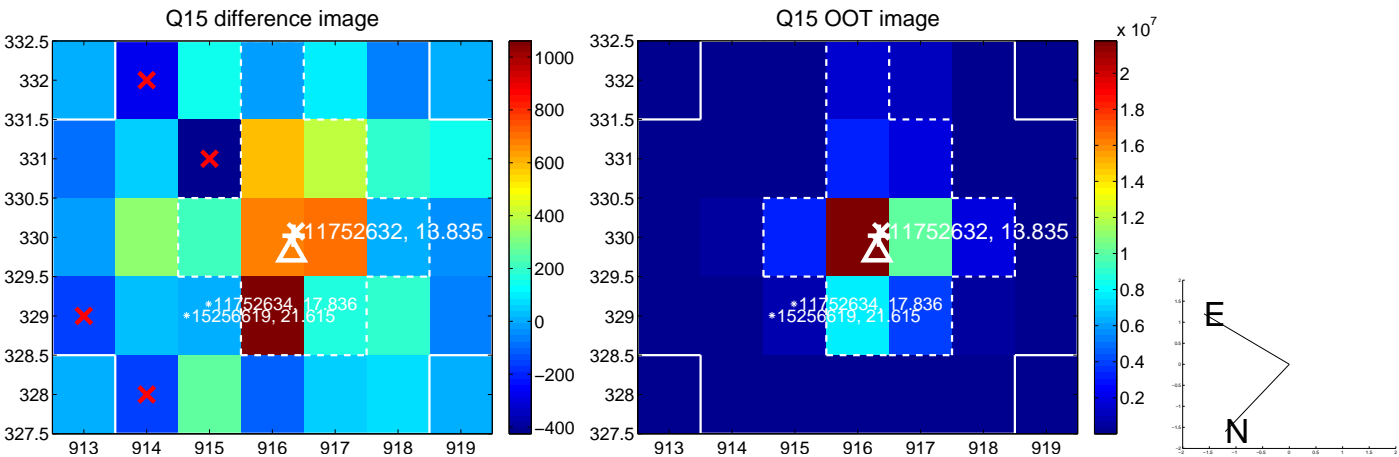
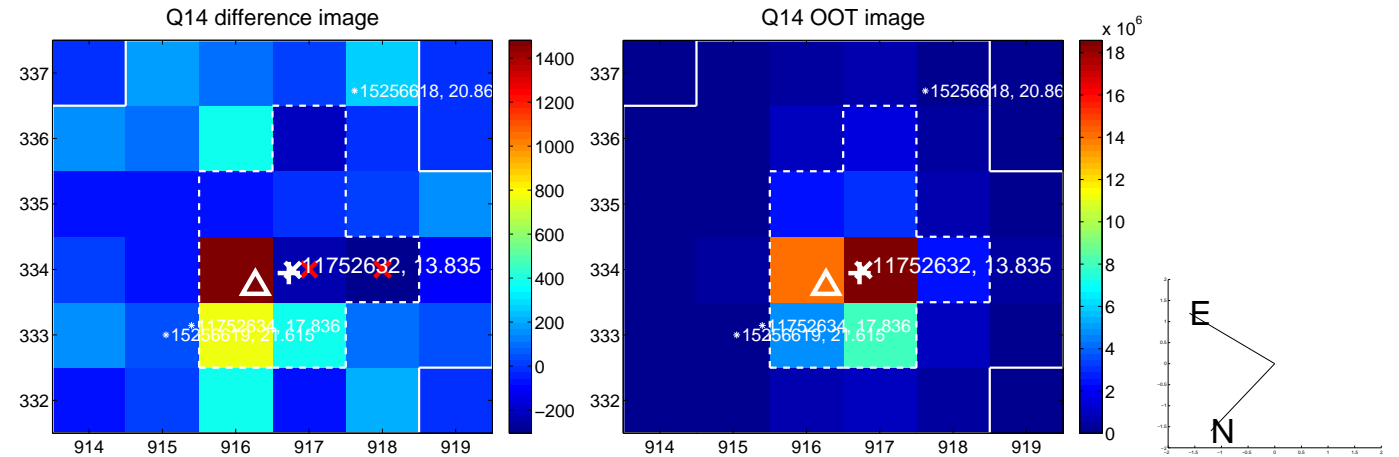
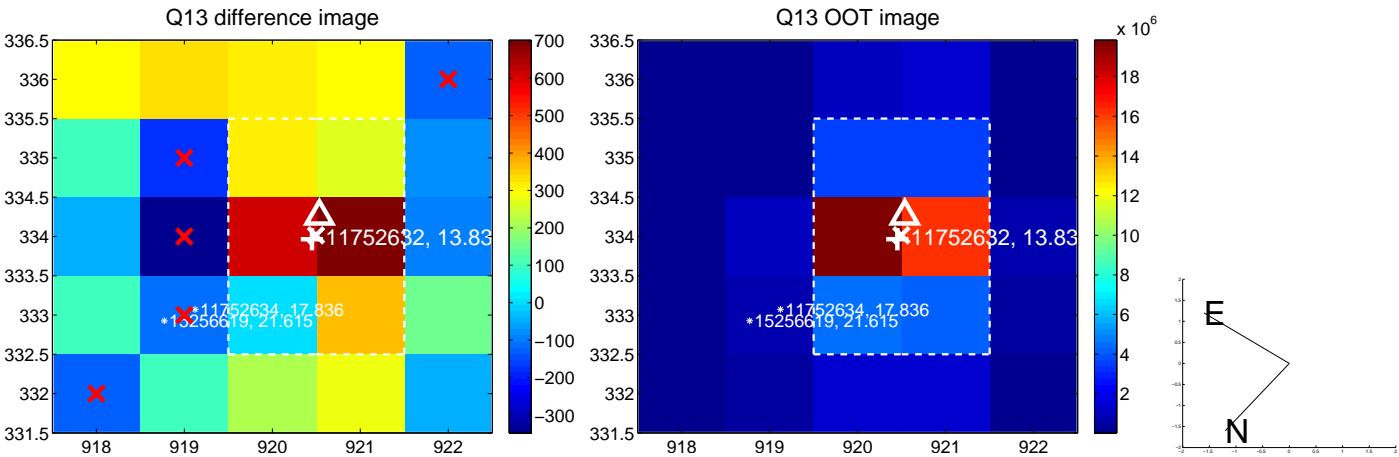
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



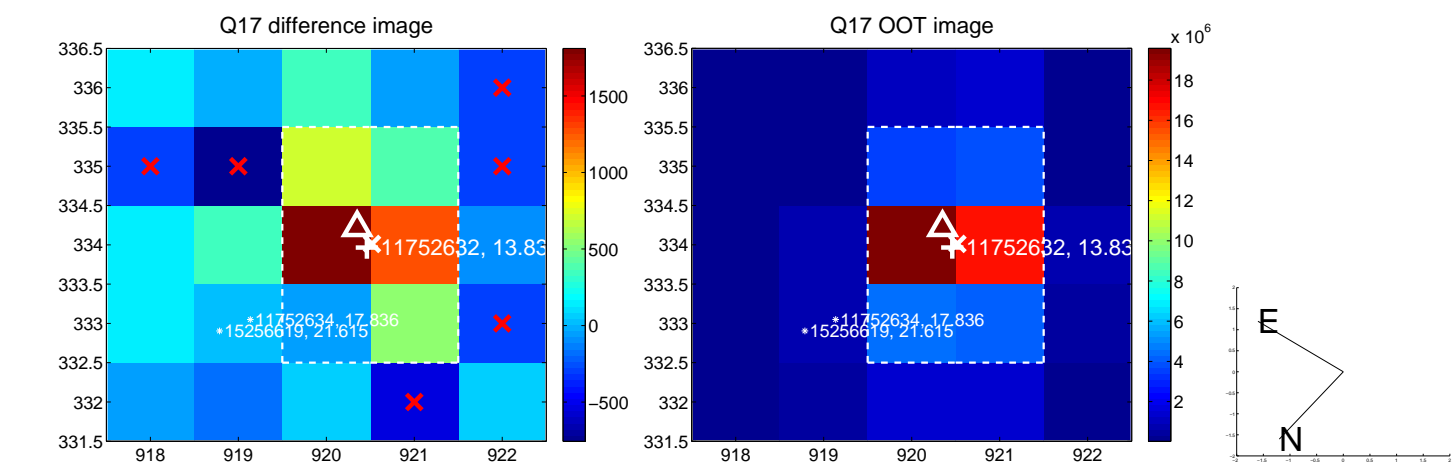
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



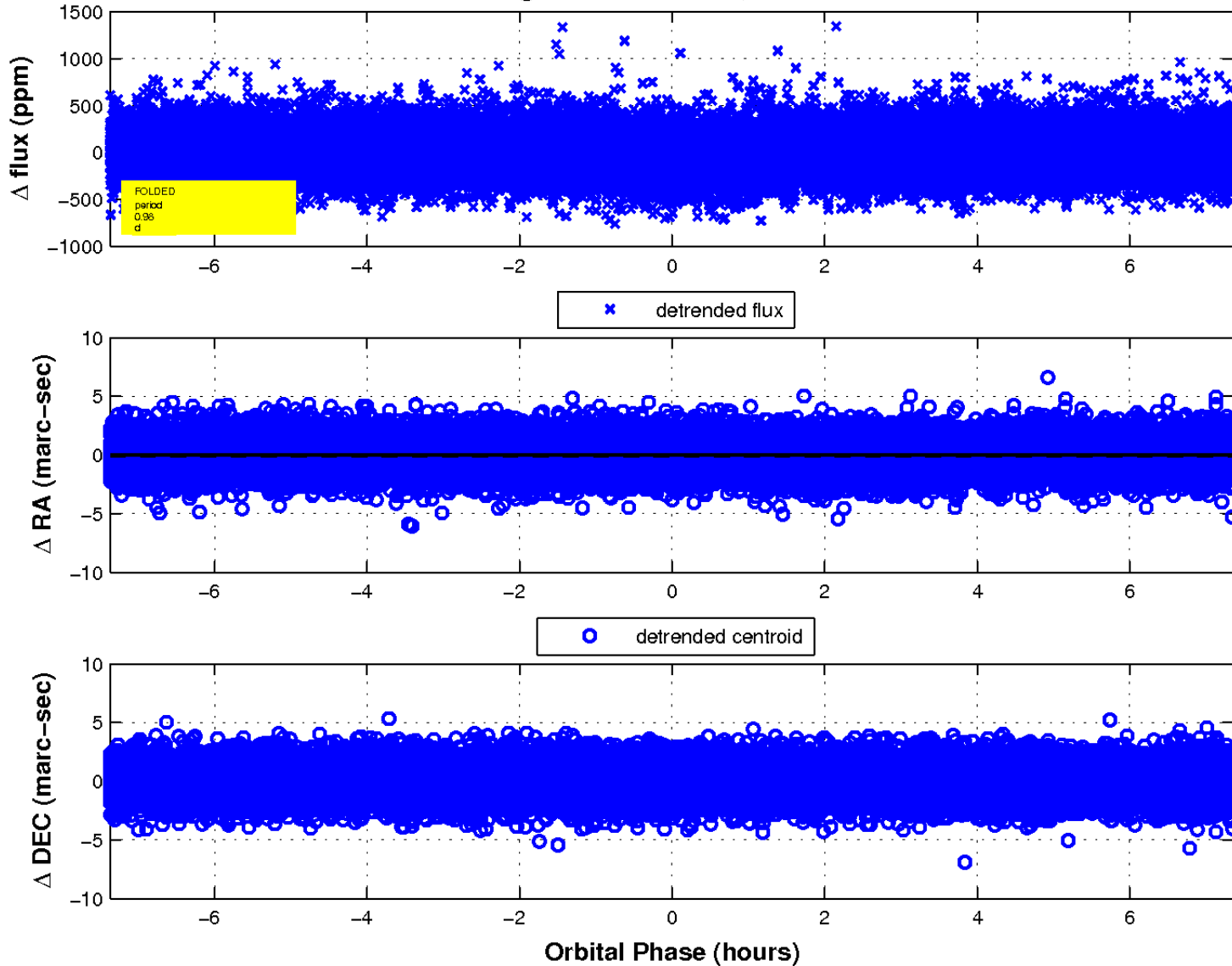
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



Declination