

KIC 011495838

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})
011495838-01	OBS	No	0.948460	132.278406	80.5	4.201	7.5	7.1	0.66	4405	0.73	549.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011495838-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET

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

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

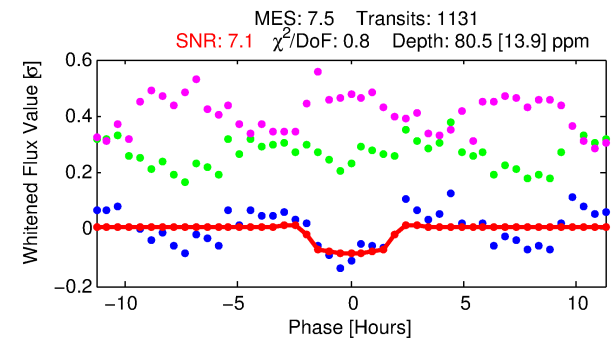
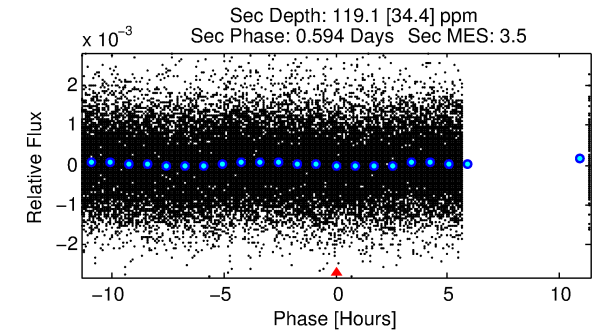
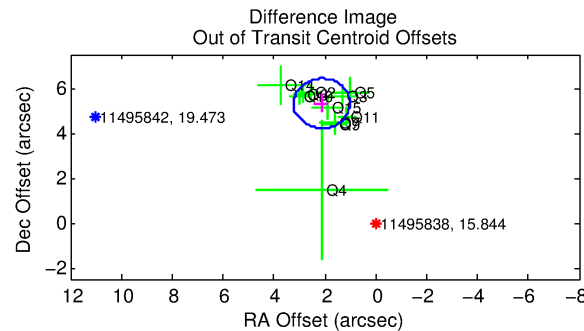
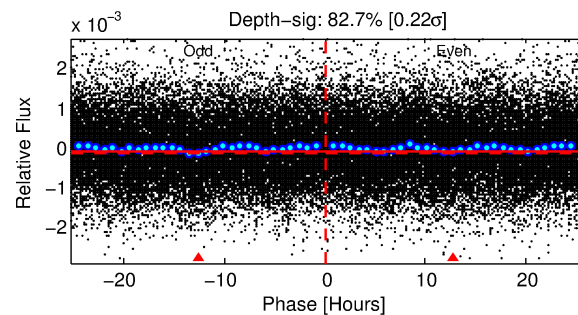
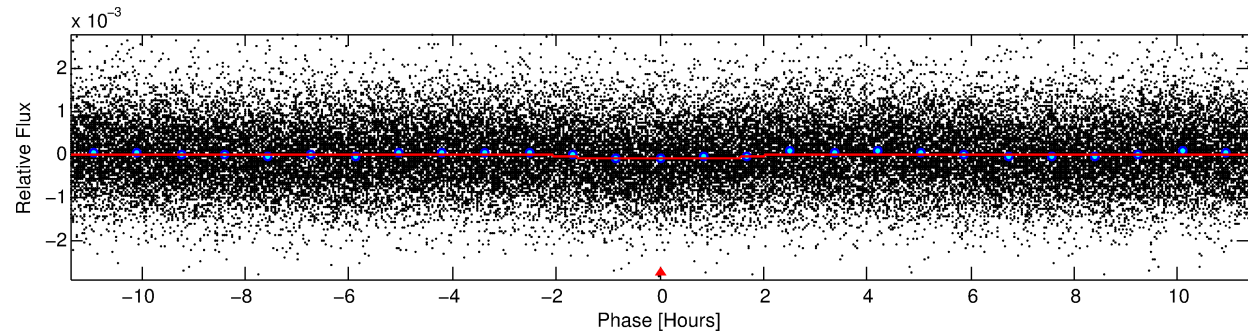
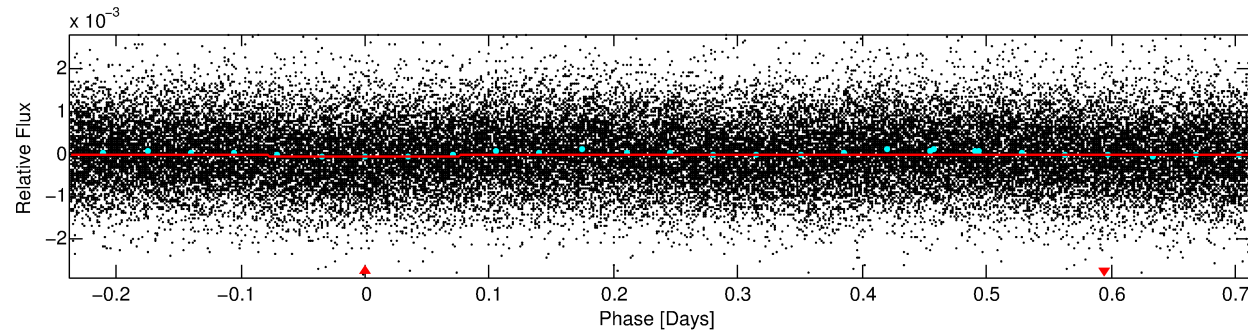
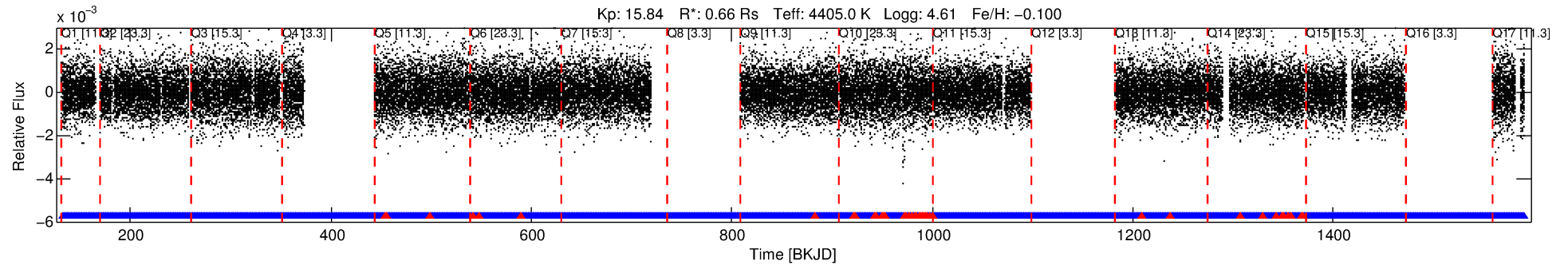
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011495838-01

No Significant Match Found

DV One-Page Summary

KIC: 11495838 Candidate: 1 of 1 Period: 0.948 d



DV Fit Results:

Period = 0.94846 [0.00002] d
Epoch = 132.2784 [0.0061] BKJD
Rp/R* = 0.0101 [0.0081]
a/R* = 1.23 [1.27]
b = 0.90 [0.66]
Seff = 549.98 [85.56]
Teq = 1235 [48] K
Rp = 0.73 [0.59] Re
a = 0.0163 [0.0012] AU
Ag = 32.84 [53.47] [0.60 σ]
Teff = 4570 [1862] K [1.79 σ]

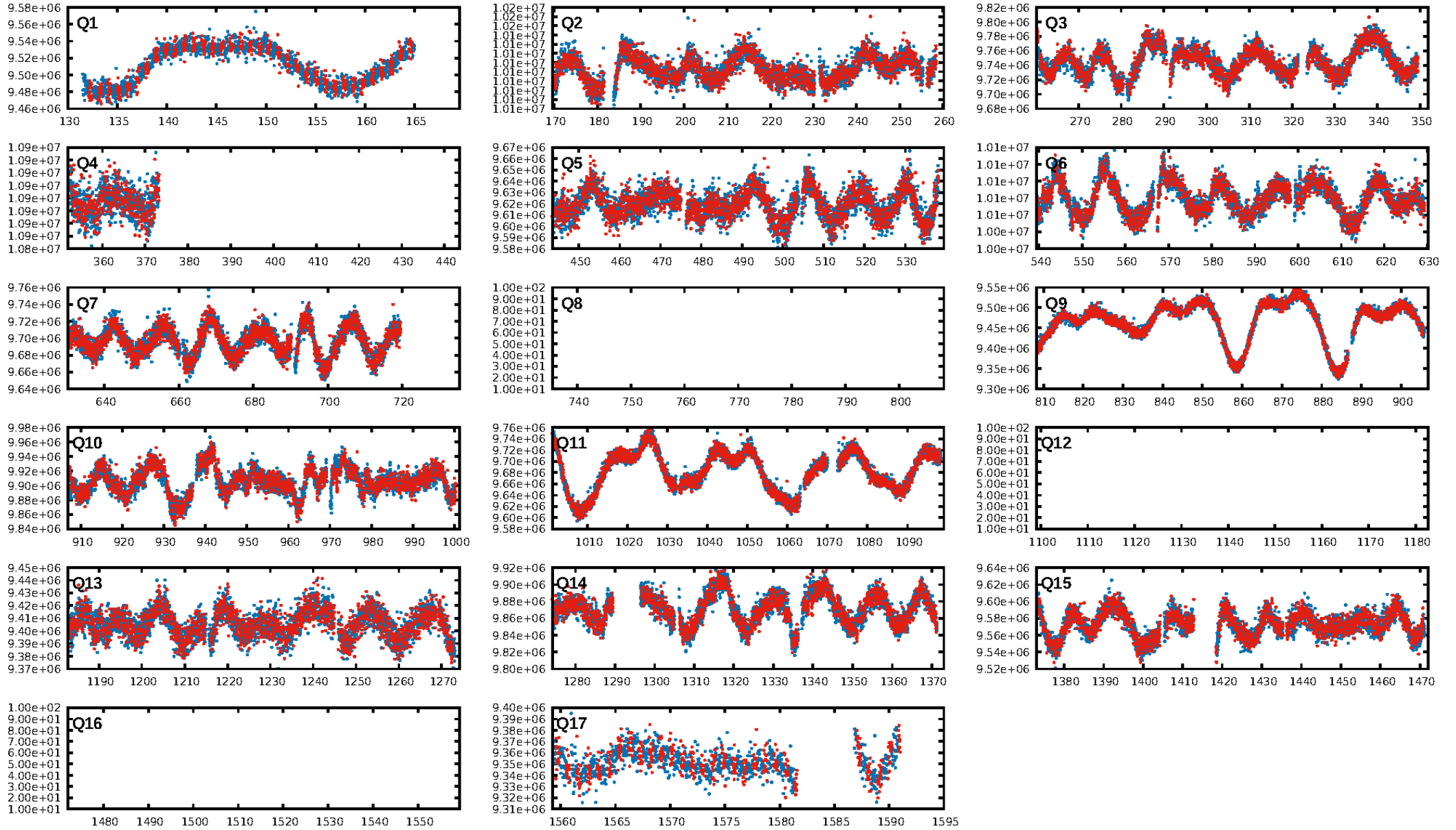
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.09e-12
RollingBand-fgt: 0.96 [1001/1044]
GhostDiagnostic-chr: -2.272
Centroid-sig: 15.7%
Centroid-so: 2.420 arcsec [1.39 σ]
OotOffset-rm: 5.728 arcsec [15.57 σ]
KicOffset-rm: 5.897 arcsec [14.15 σ]
OotOffset-st: 4/4/1/2 [11]
KicOffset-st: 4/4/1/2 [11]
DiffImageQuality-fgm: 0.55 [6/11]
DiffImageOverlap-fno: 1.00 [14/14]

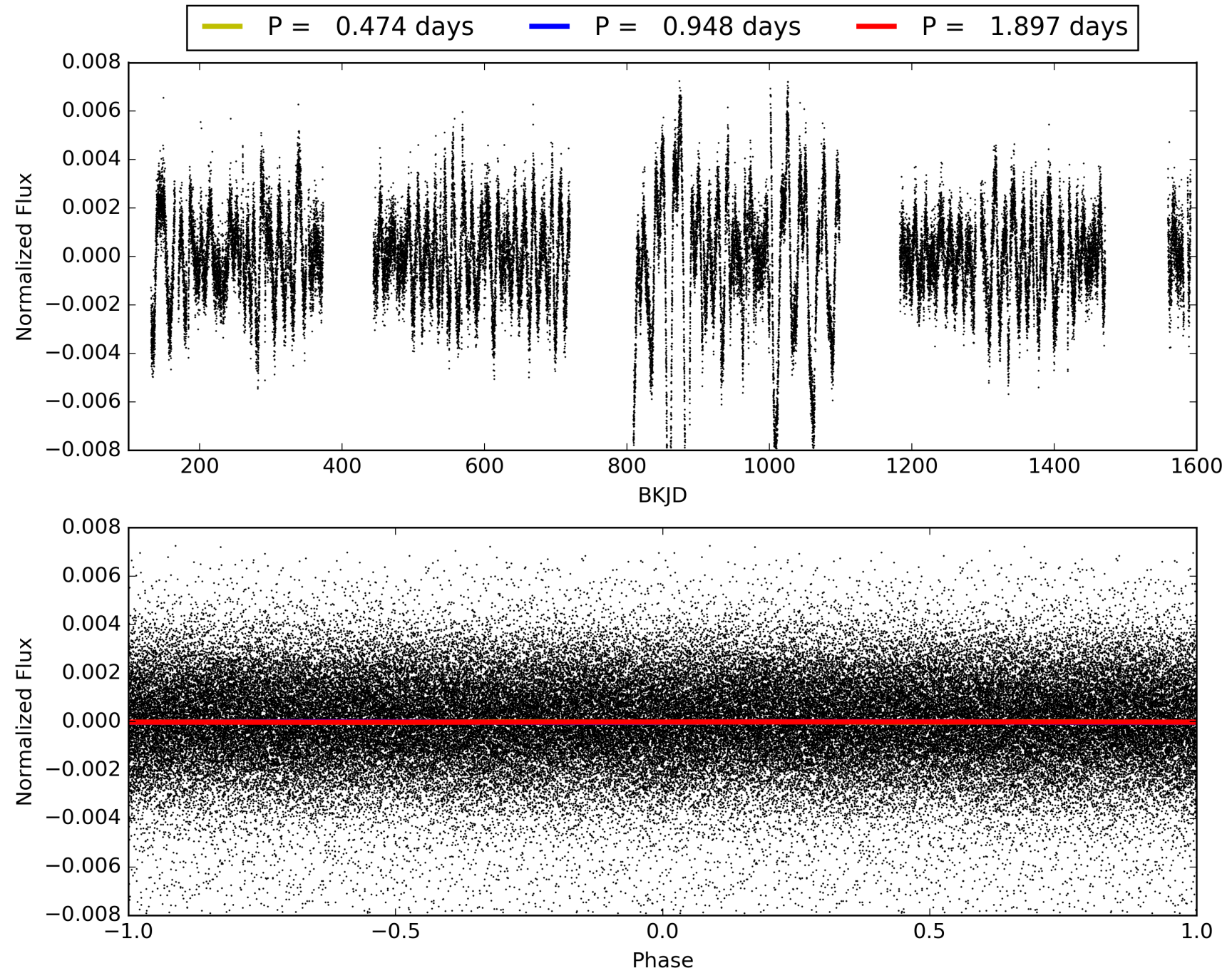
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:10:06 Z

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

TCE 011495838-01, PDC Light Curves

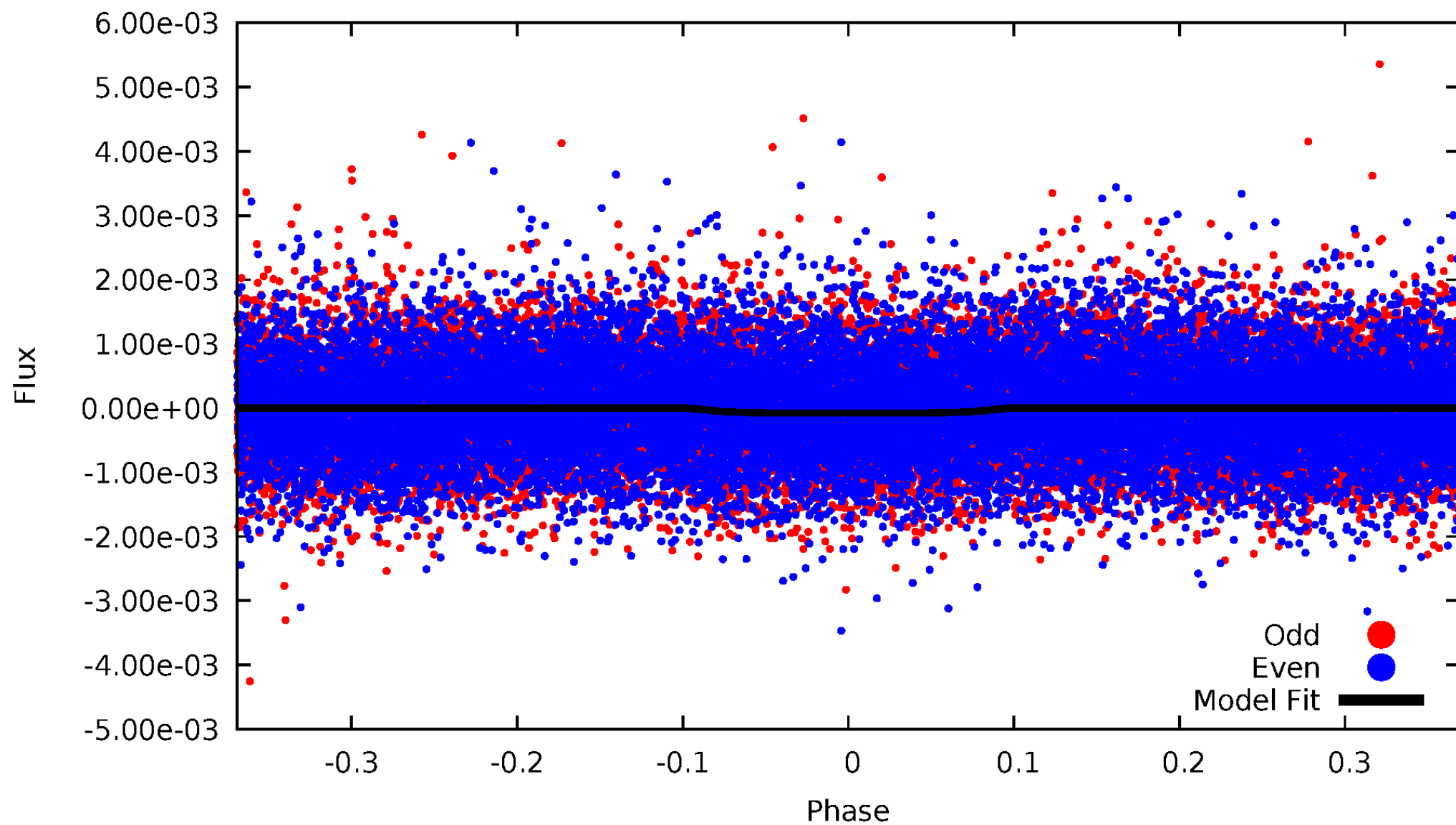


TCE 011495838-01



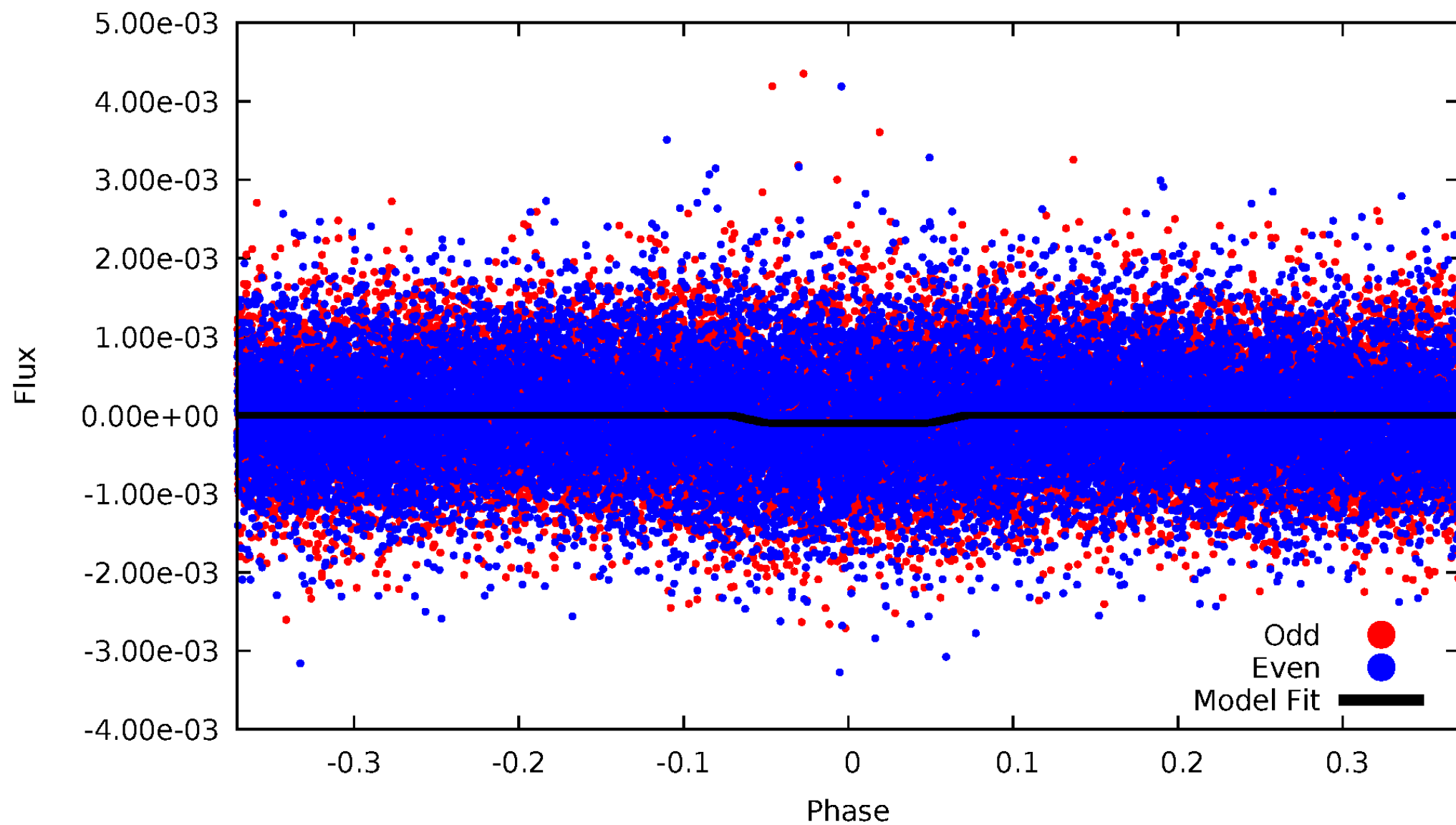
DV Odd/Even

TCE 011495838-01



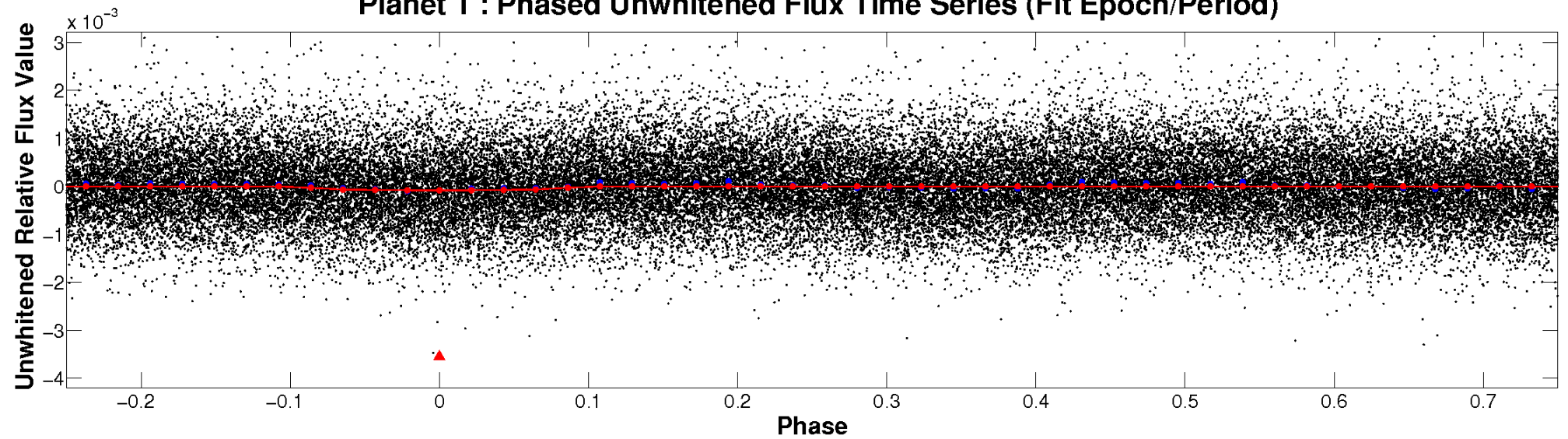
ALT Odd/Even

TCE 011495838-01

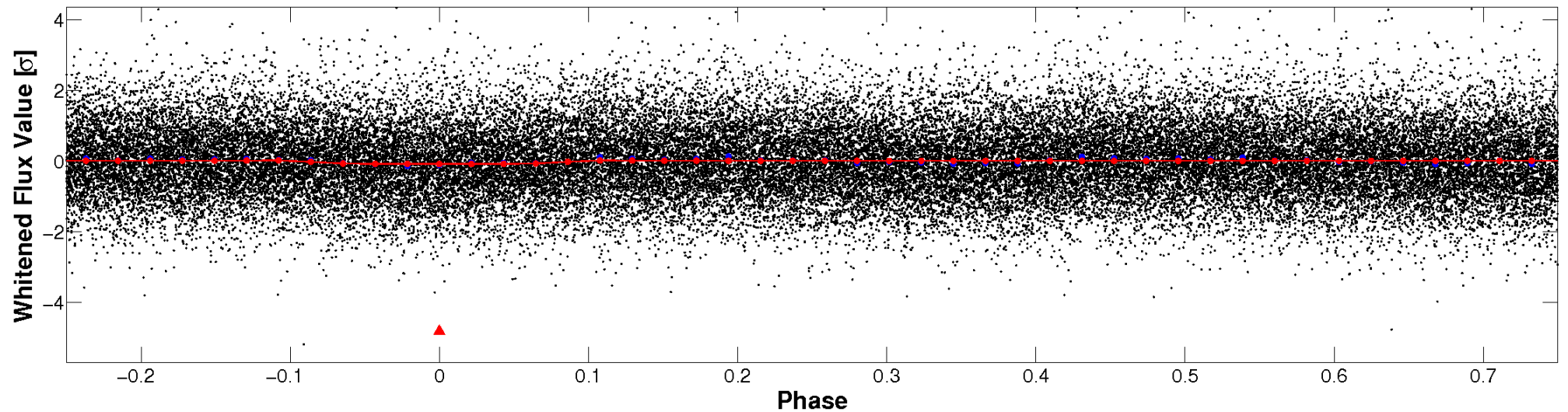


Non-Whitened Vs. Whitened Light Curve

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

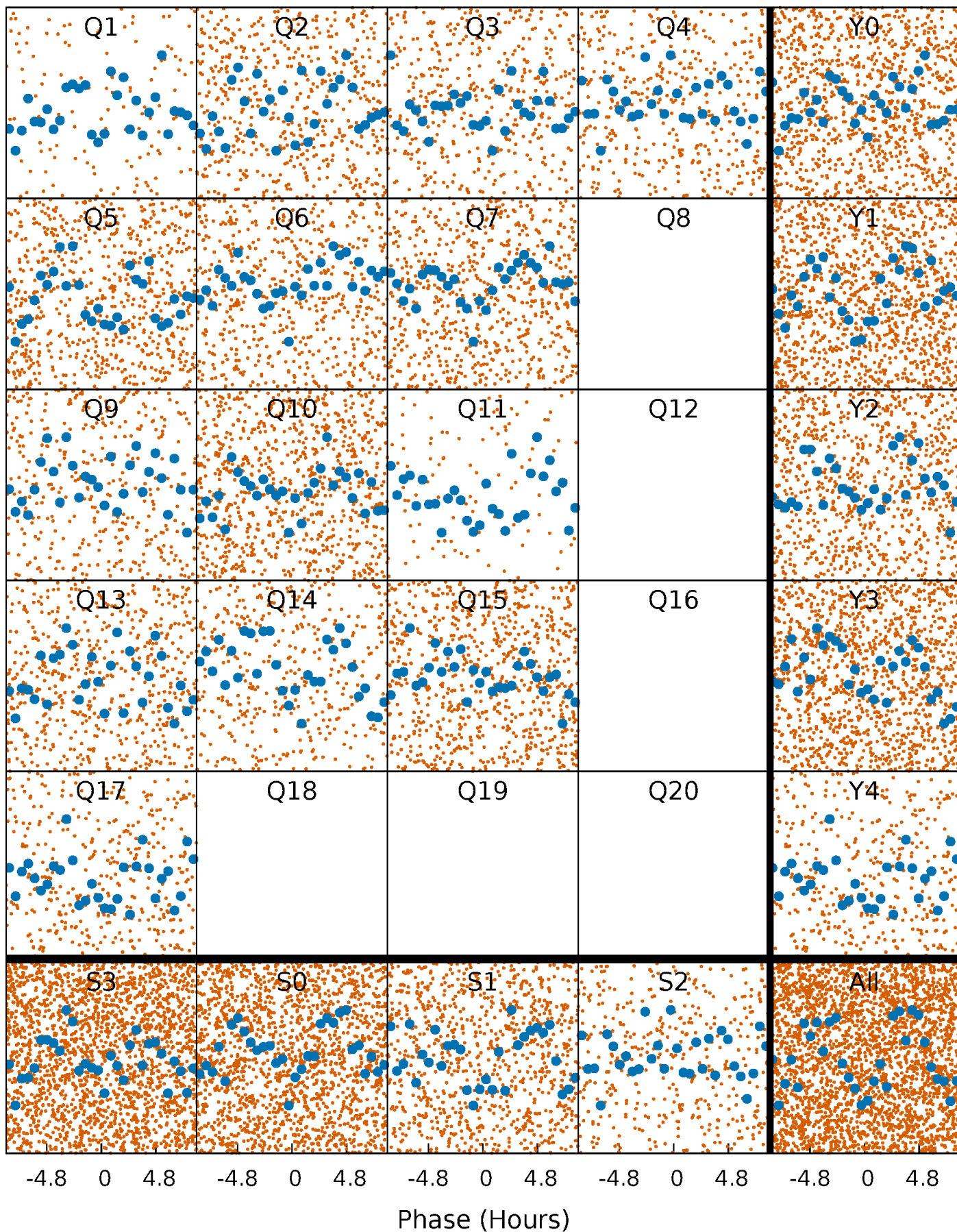


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



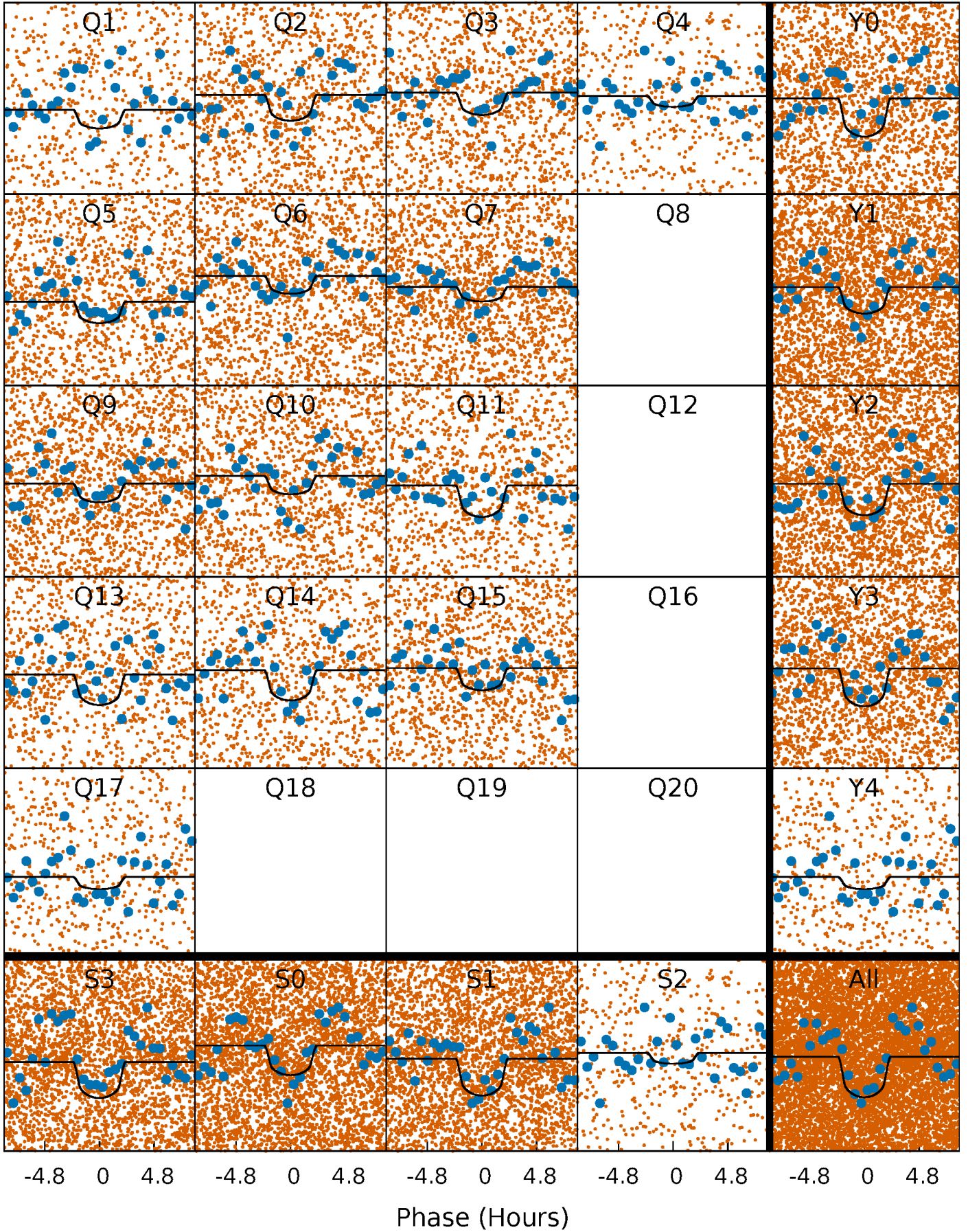
PDC Quarter-Phased Transit Curves

TCE 011495838-01 P= 0.948460 Days $T_0=132.278406$ (BKJD)



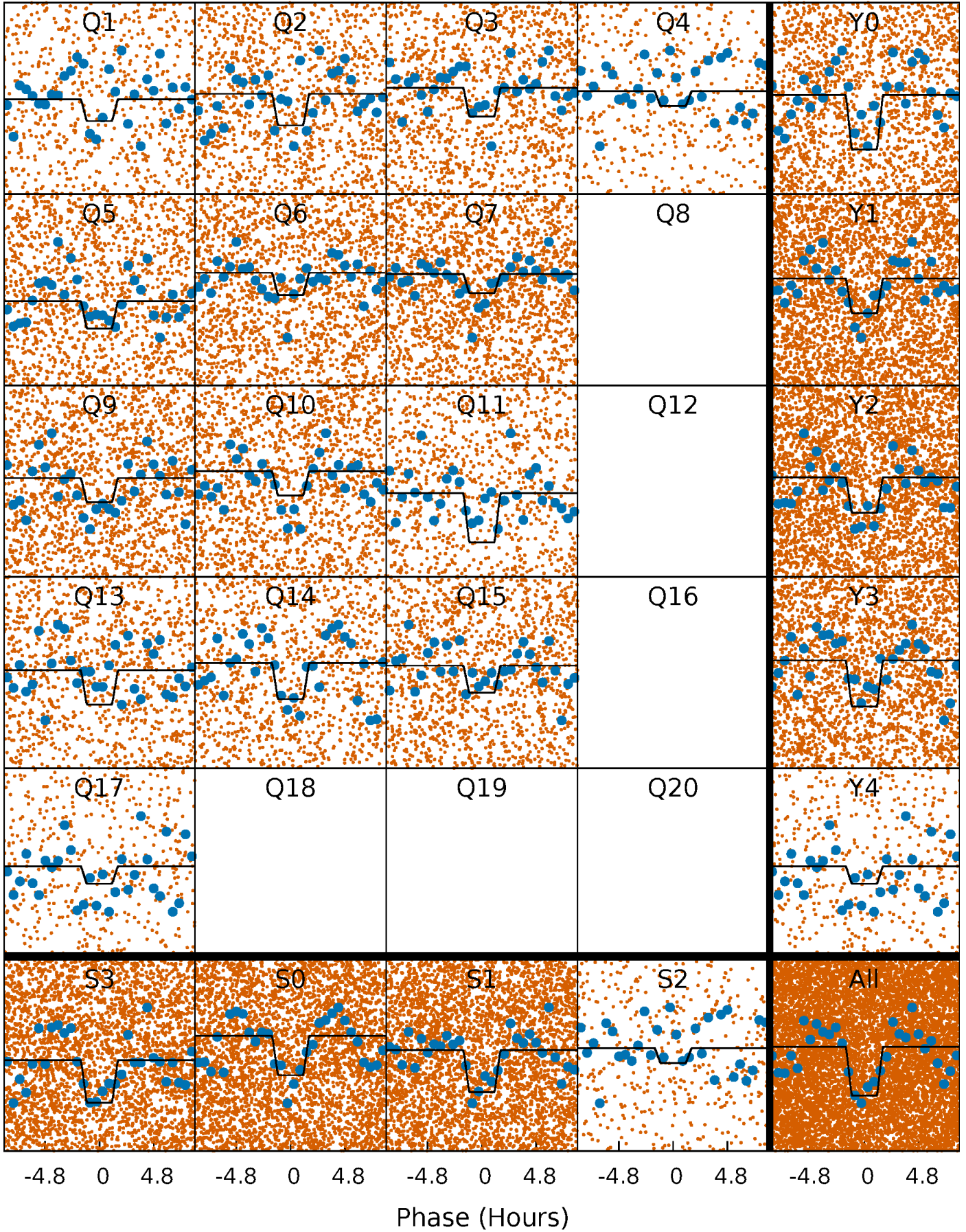
DV Quarter-Phased Transit Curves

TCE 011495838-01 P= 0.948460 Days $T_0=132.278406$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

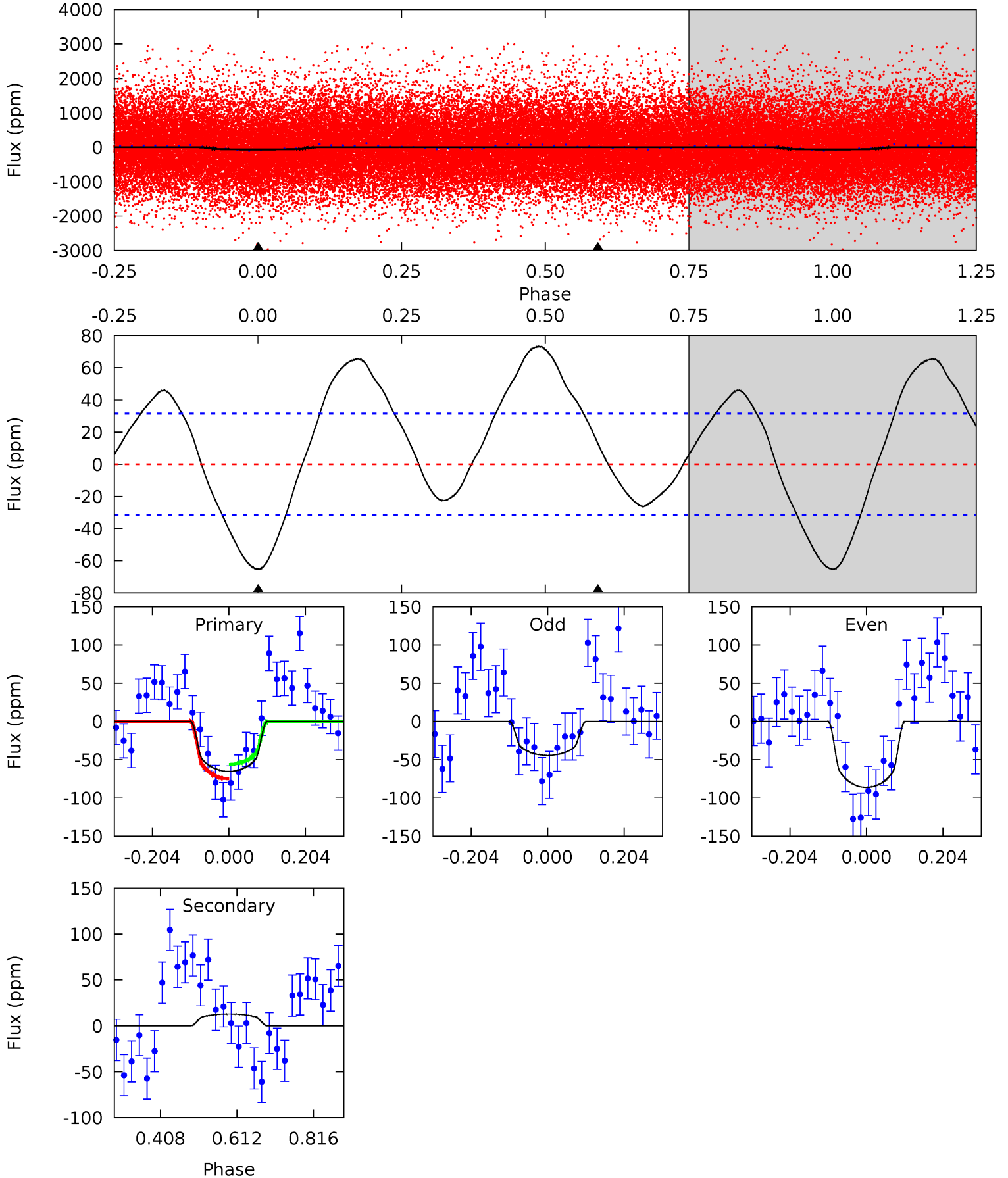
TCE 011495838-01 P= 0.948461 Days $T_0=132.278363$ (BKJD)



DV Model-Shift Uniqueness Test

011495838-01, P = 0.948460 Days, E = 131.329946 Days

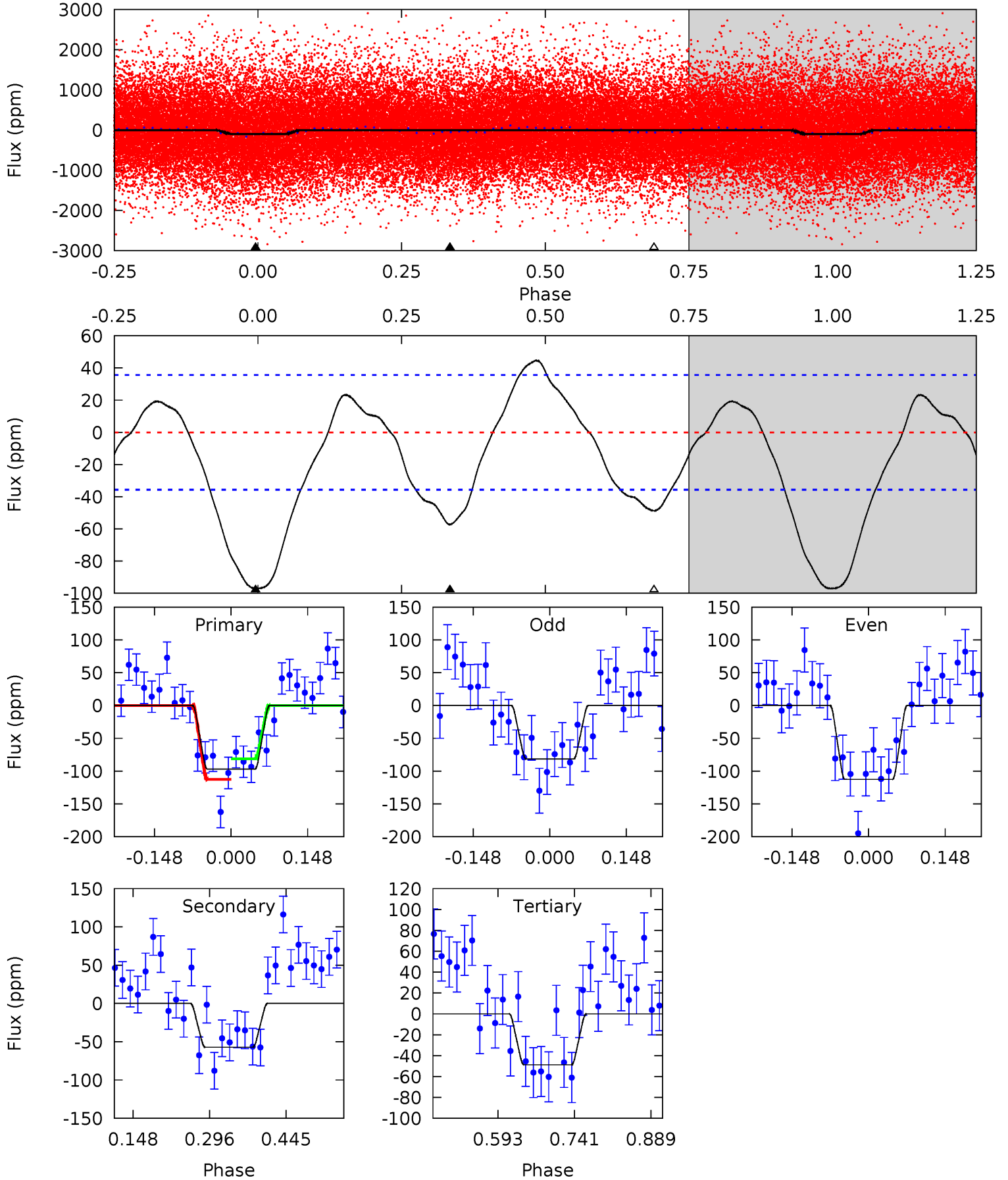
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.14	-1.81	0	0	4.41	1.27	3.23	9.14	9.14	-1.81	-1.81	2.94	1.12	0.53	1.33



Alt Model-Shift Uniqueness Test

011495838-01, P = 0.948461 Days, E = 131.329902 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.2	7.19	6.13	0	4.48	1.45	3.42	6.06	12.2	1.07	7.19	1.96	1.09	0.32	1.97



Stellar Parameters For KIC 011495838

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4405^{+131}_{-131}	$4.610^{+0.053}_{-0.021}$	$-0.100^{+0.300}_{-0.300}$	$0.660^{+0.037}_{-0.058}$	$0.648^{+0.065}_{-0.052}$	$3.173^{+0.737}_{-0.314}$
	+3%/-3%	+1%/-0%	+300%/-300%	+6%/-9%	+10%/-8%	+23%/-10%
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 011495838-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	13 ± 7	$0.83^{+0.53}_{-0.44}$	1712^{+60}_{-59}	-2998^{+395}_{-762}	$-2.395^{+1.717}_{-9.998}$
Alt.	-57 ± 8	$0.83^{+0.52}_{-0.49}$	1710^{+59}_{-58}	3760^{+1613}_{-575}	13^{+64}_{-8}

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

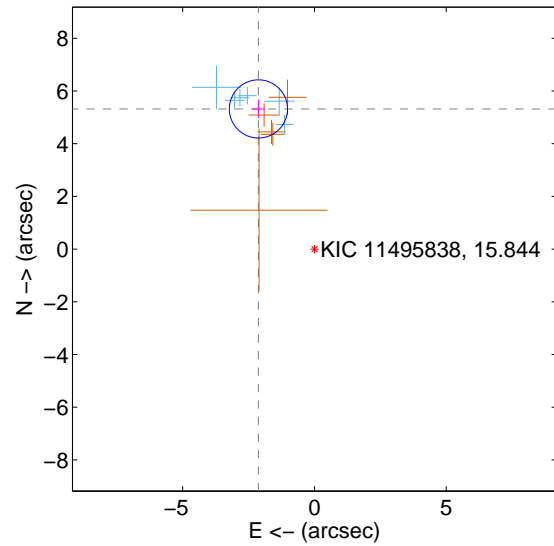
Supplemental centroid analysis for 011495838-01. Kepler magnitude: 15.84. Transit SNR 7.06

There are 6 quarters with good PRF difference image offsets

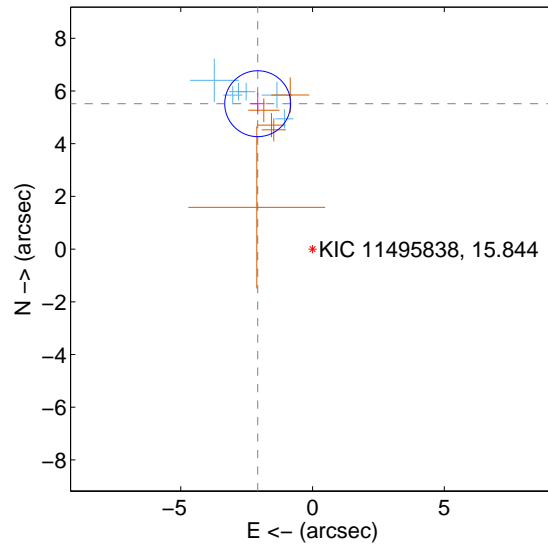
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.728 ± 0.368	15.57	2.125 ± 0.252	5.319 ± 0.354
PRF-fit source offset from KIC position	5.897 ± 0.417	14.15	2.081 ± 0.270	5.517 ± 0.410
photometric centroid source offset	2.42 ± 1.74	1.39	1.71 ± 1.74	1.71 ± 1.75

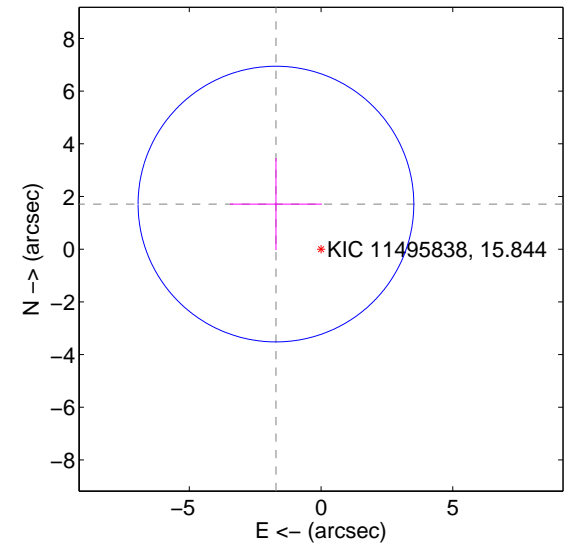
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

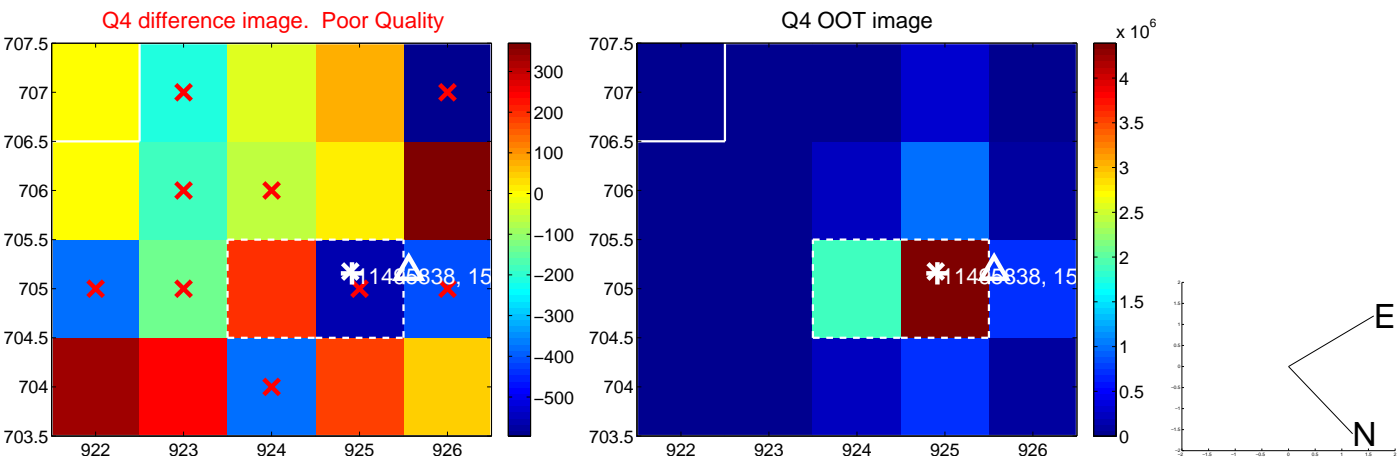
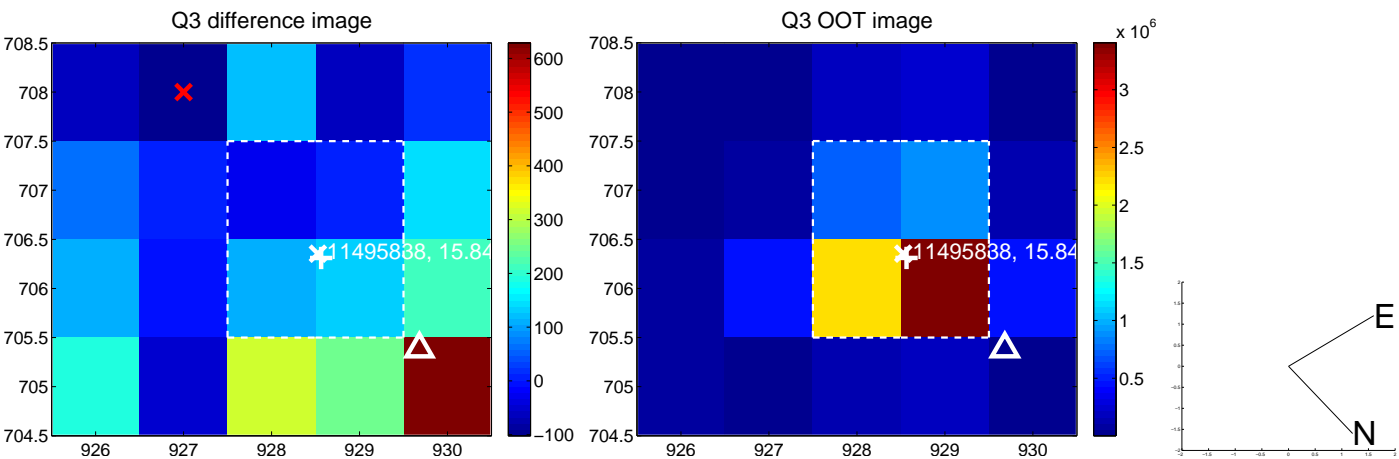
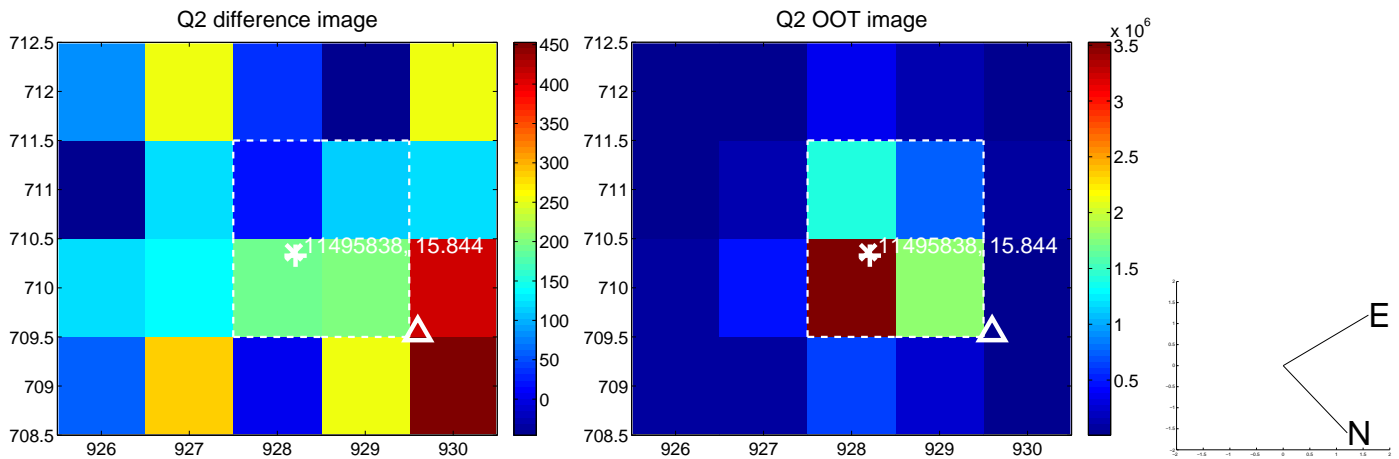
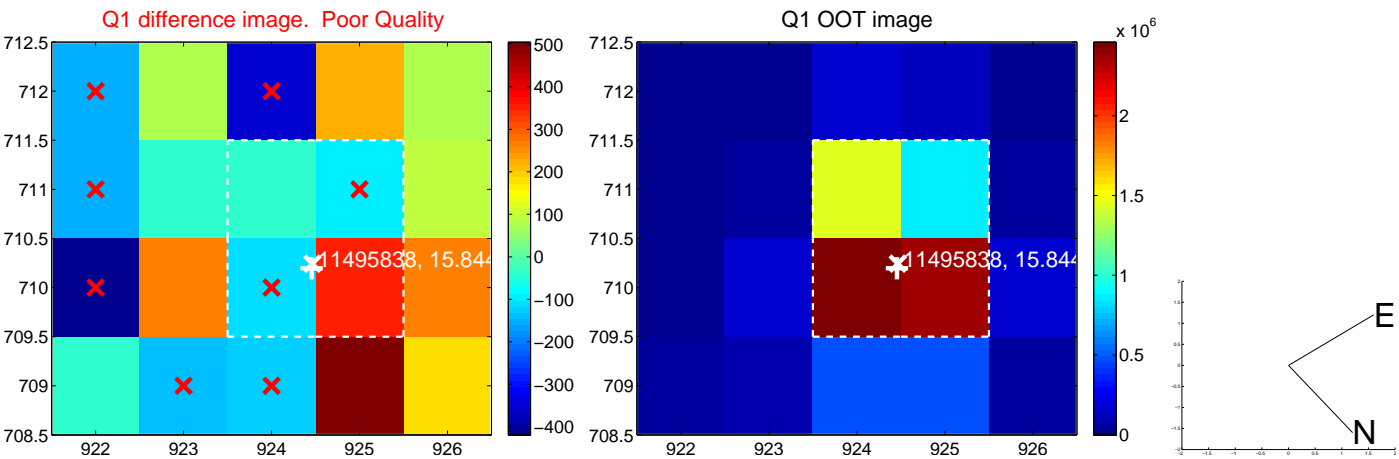


offset from photometric centroids

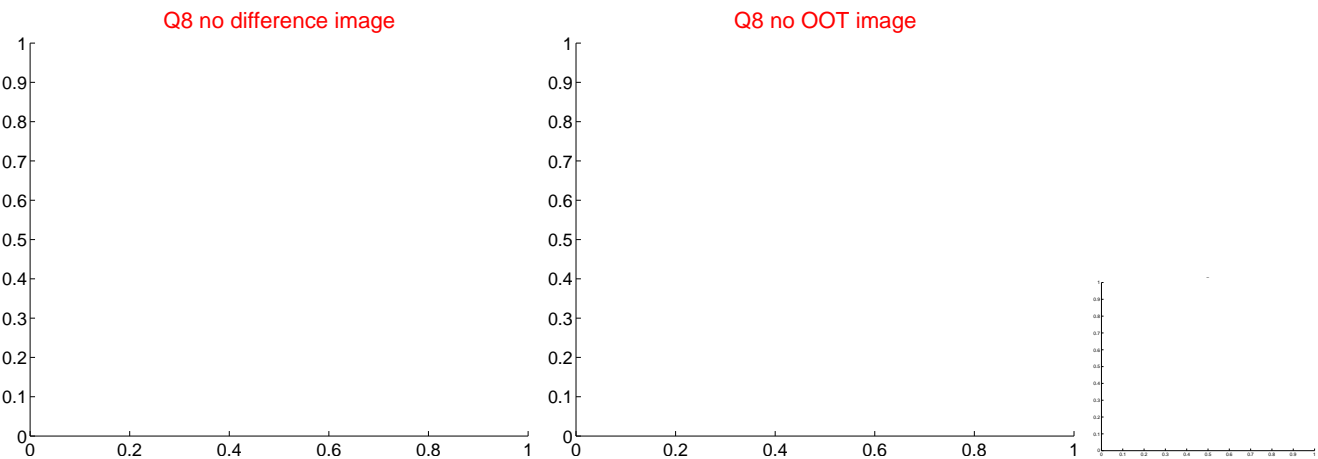
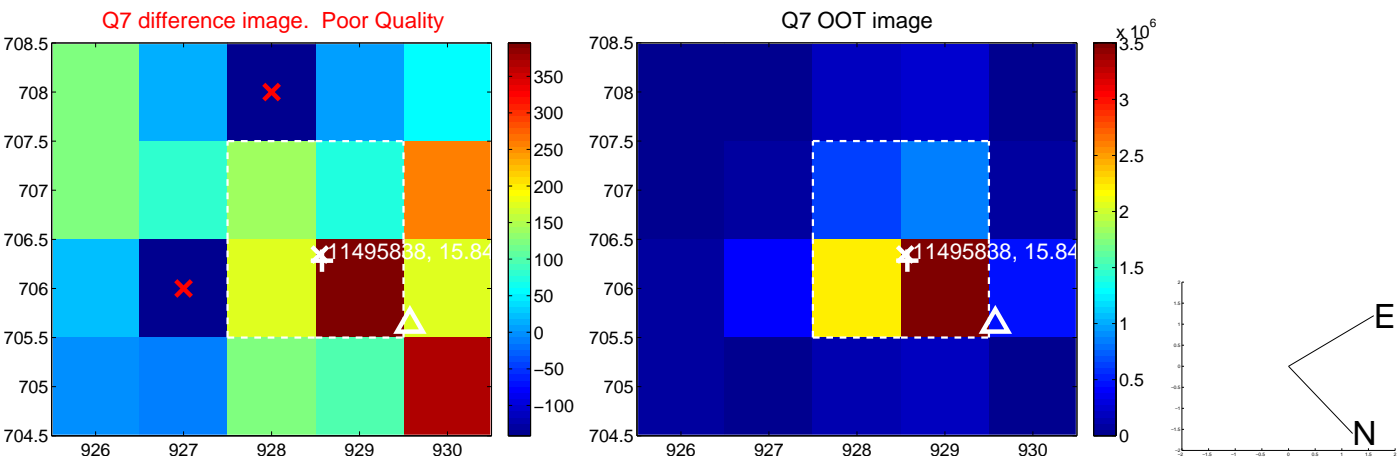
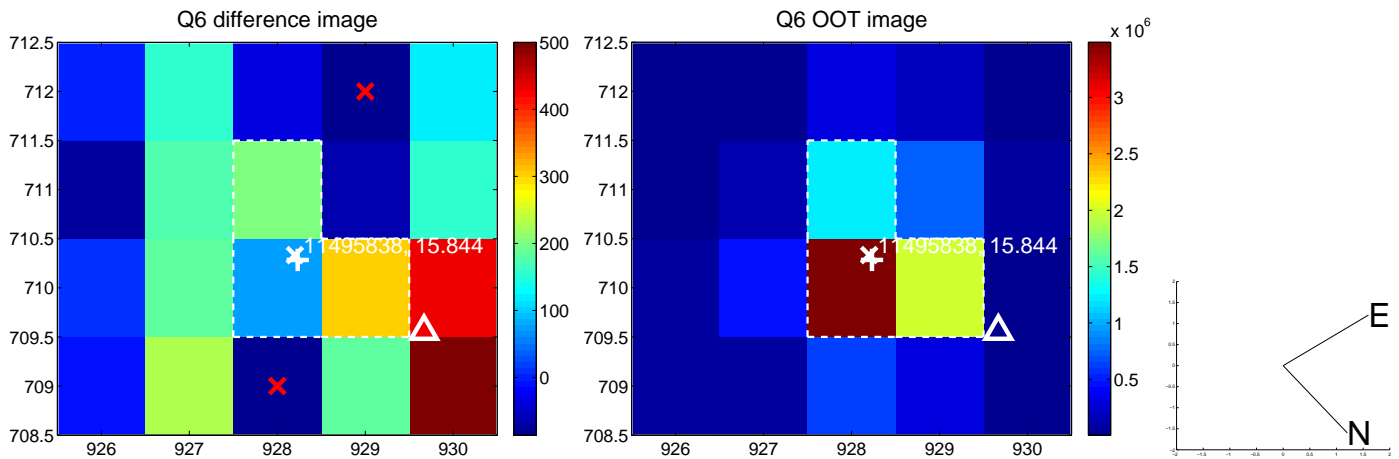
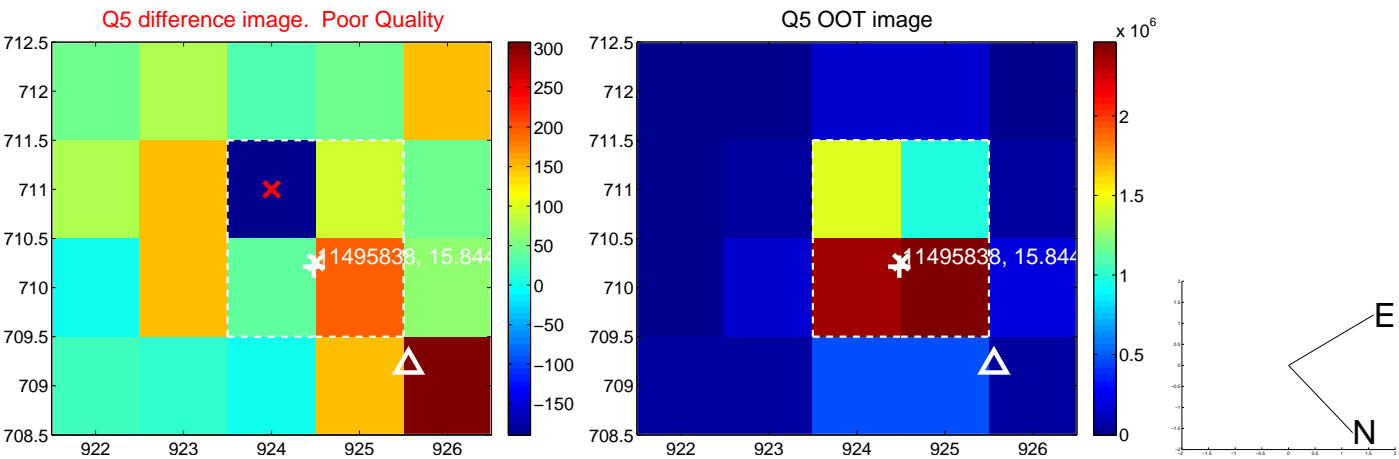


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

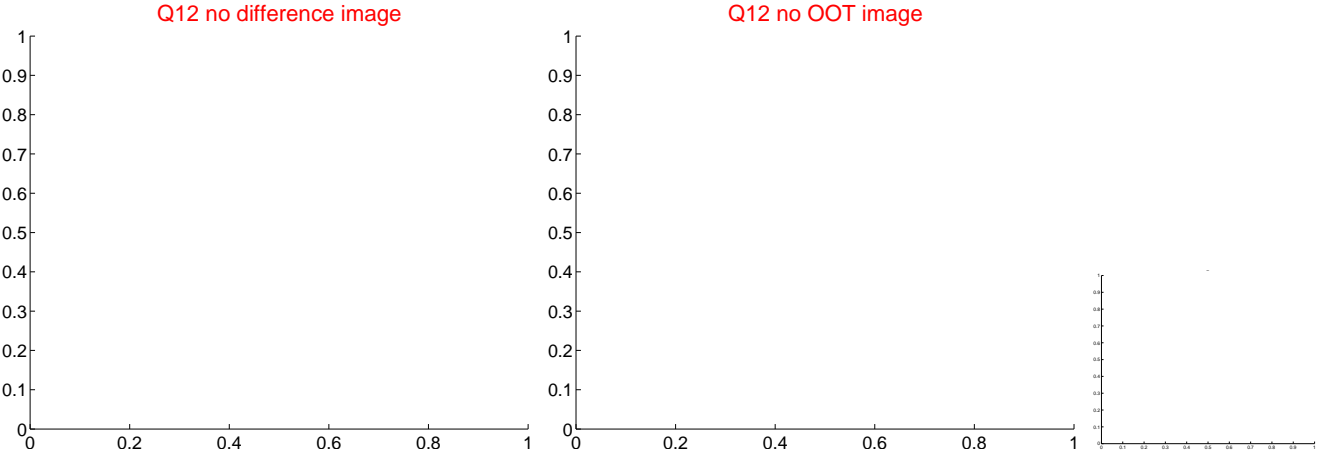
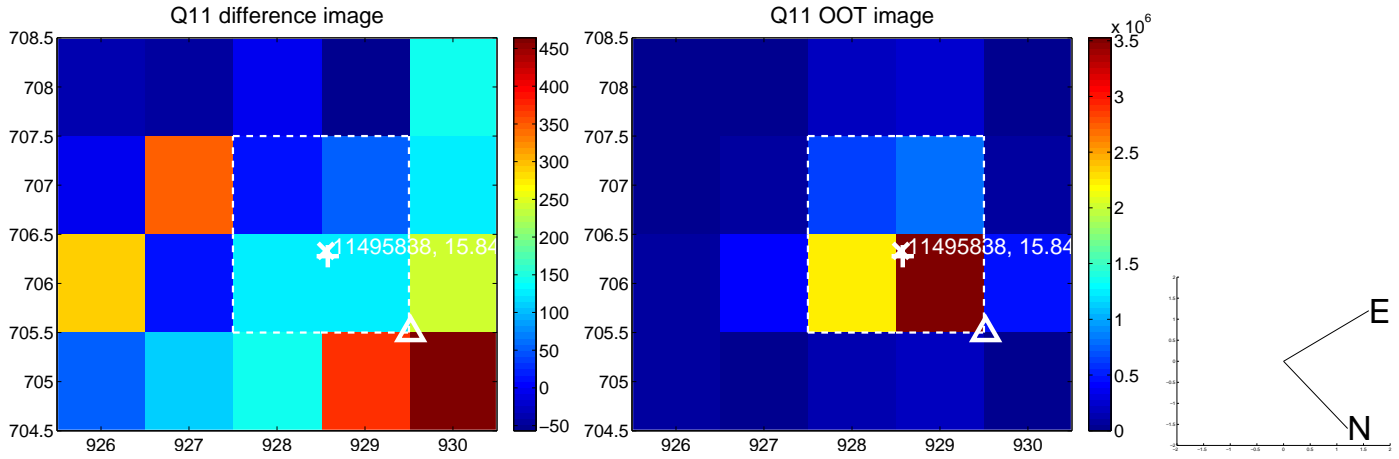
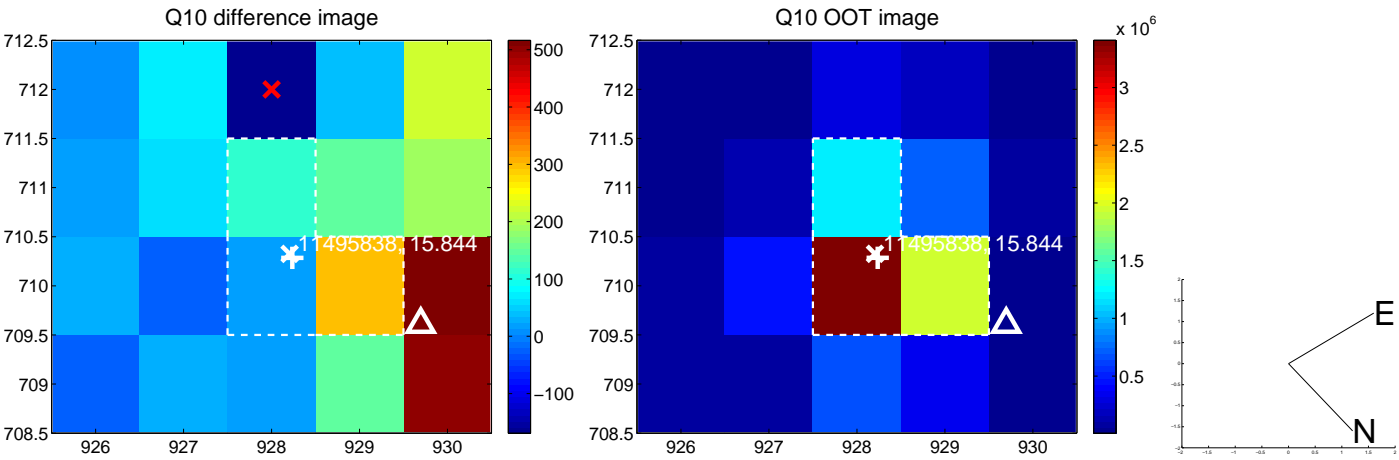
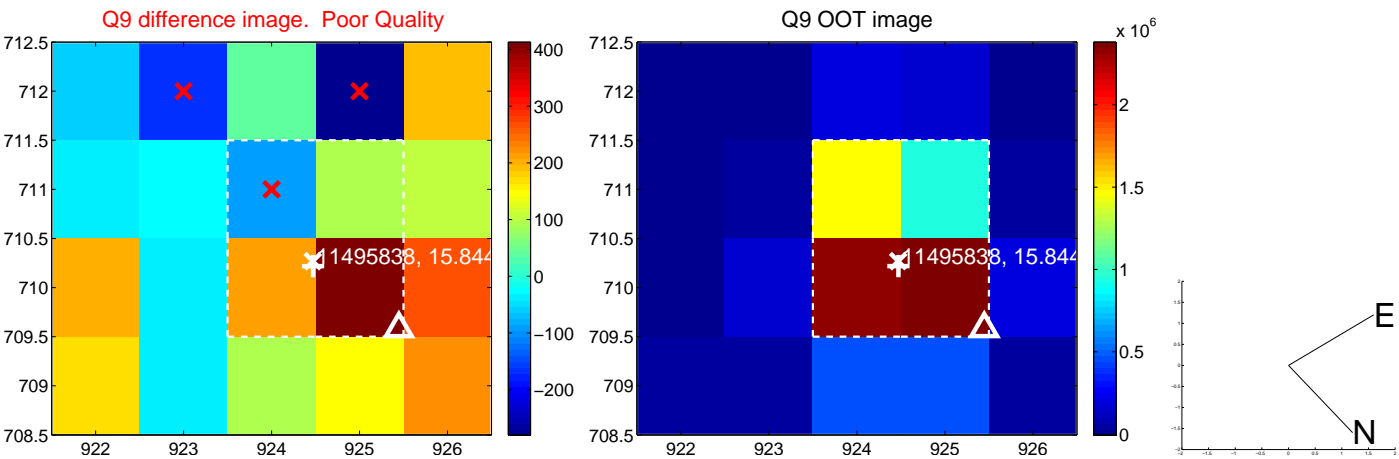
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



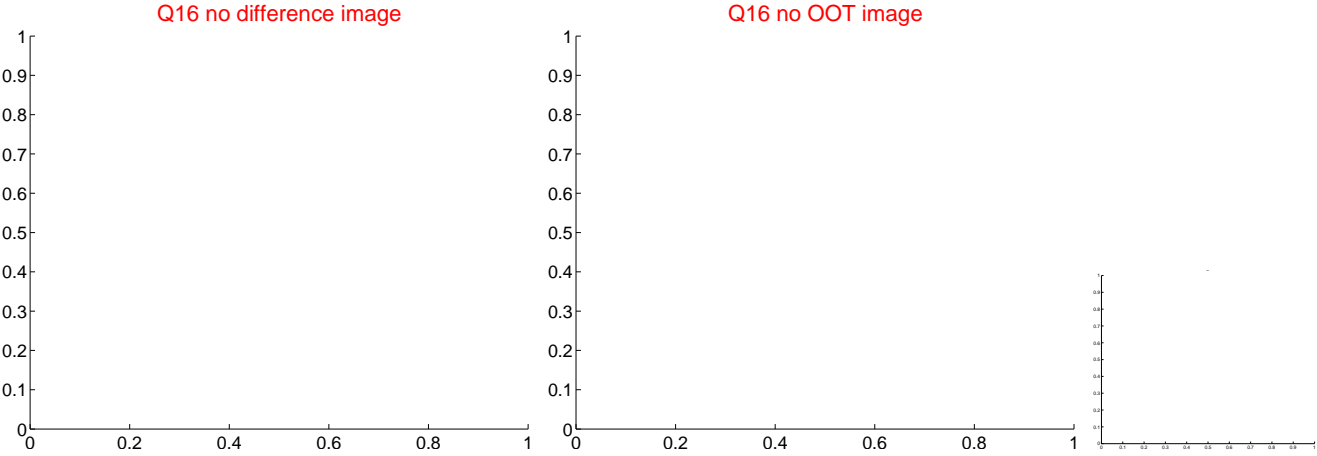
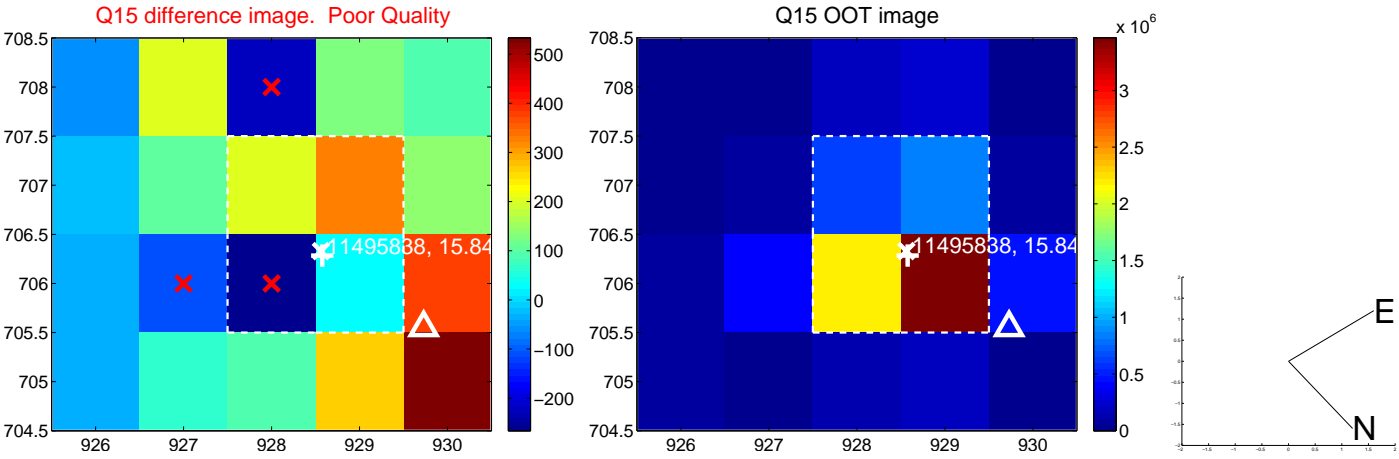
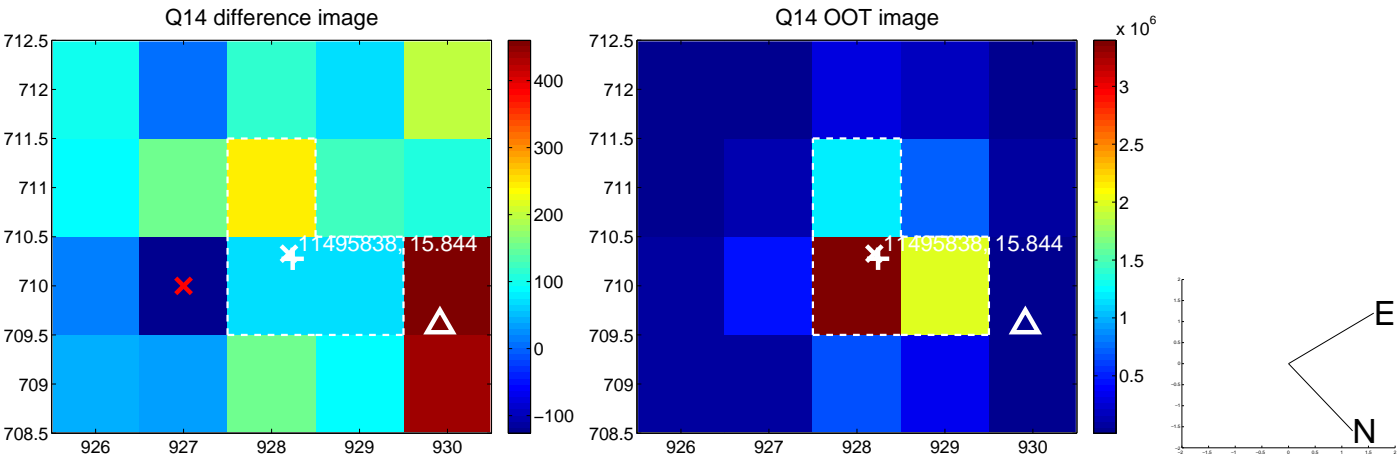
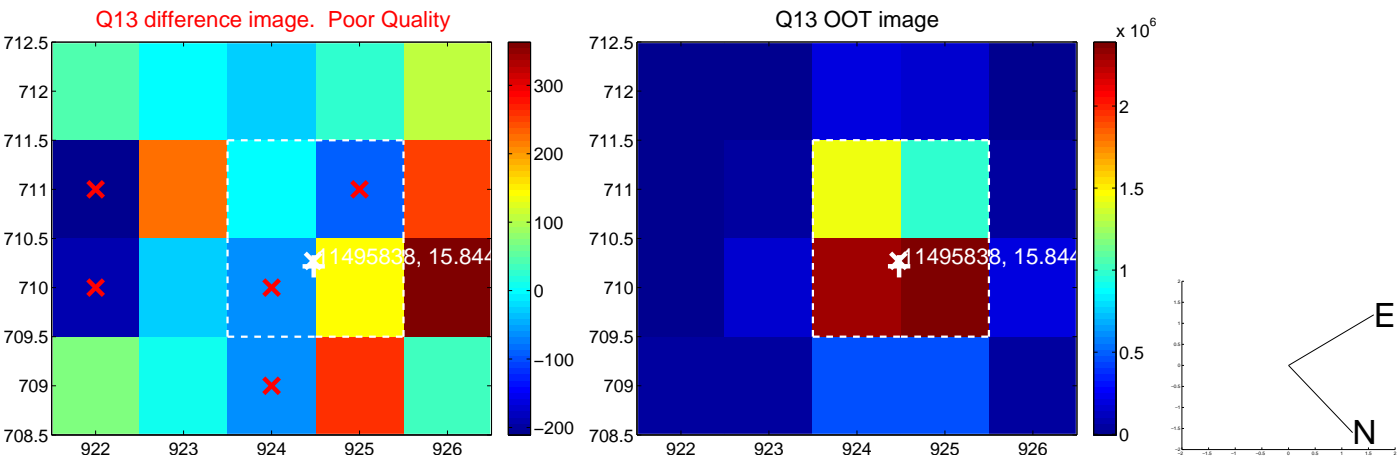
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



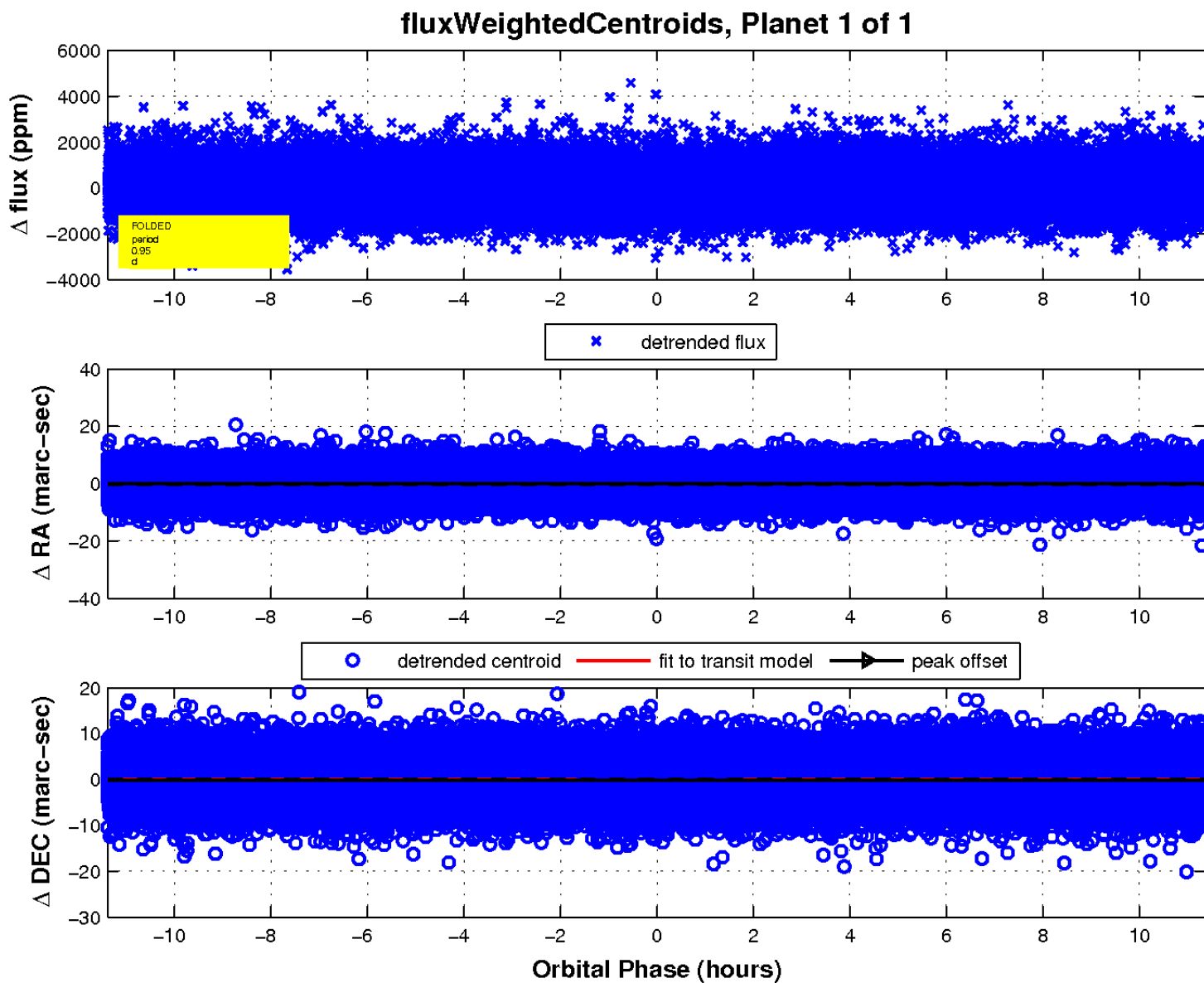
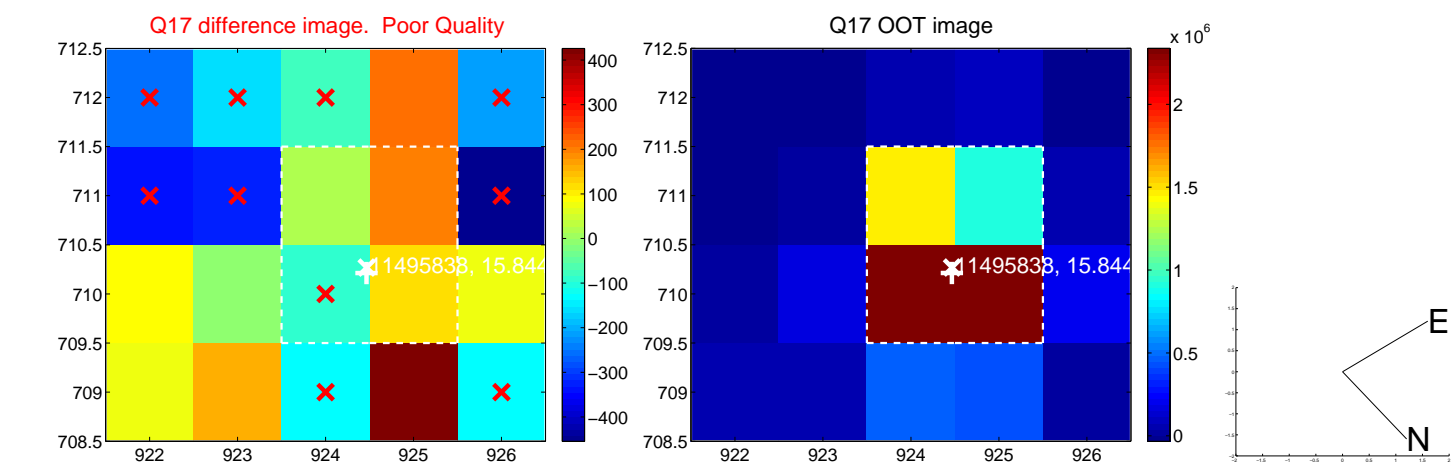
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

