

KIC 008329790

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})
008329790-01	OBS	No	1.144666	132.518769	20.3	11.203	9.5	13.4	1.73	7555	0.80	13882.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008329790-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—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.

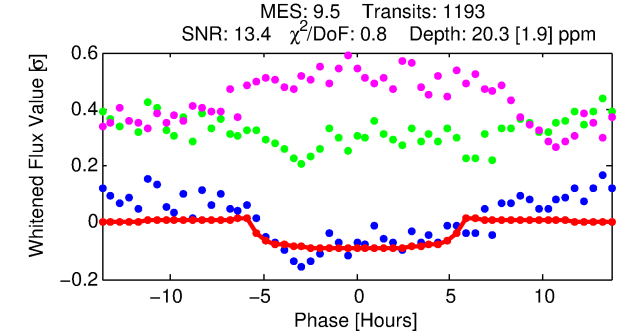
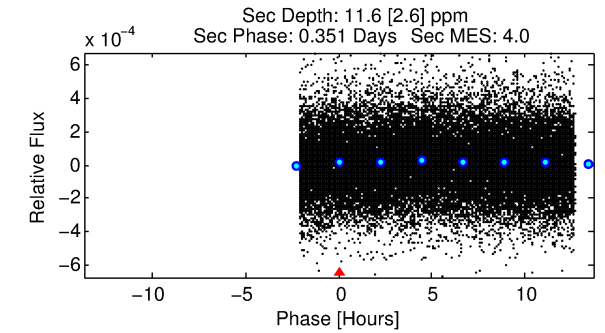
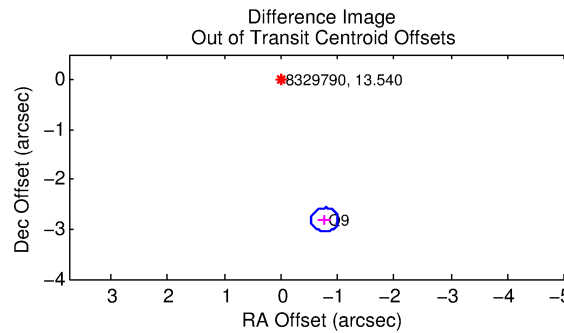
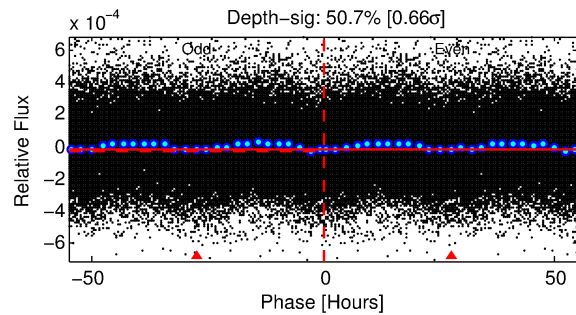
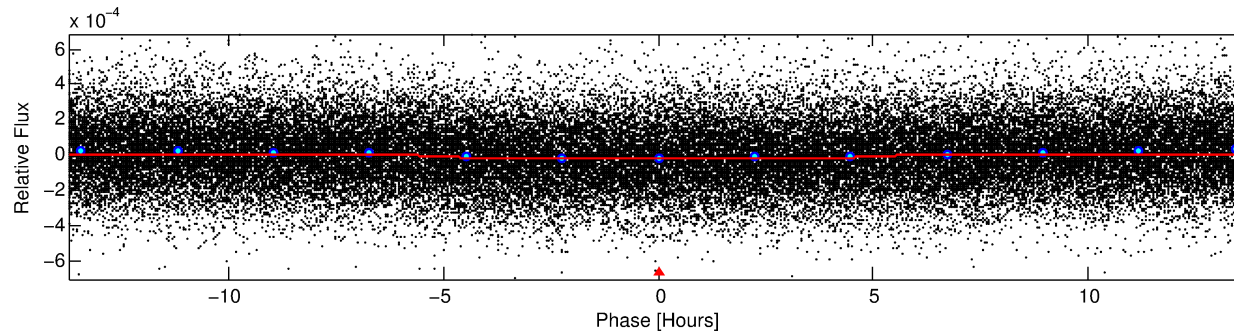
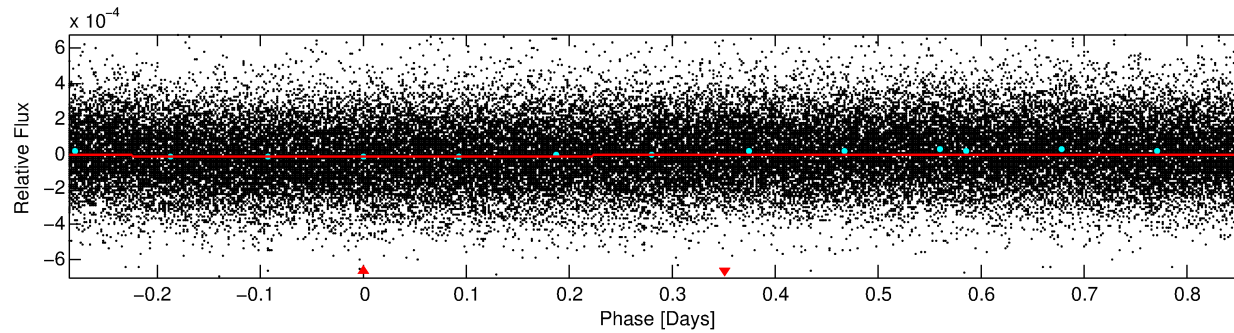
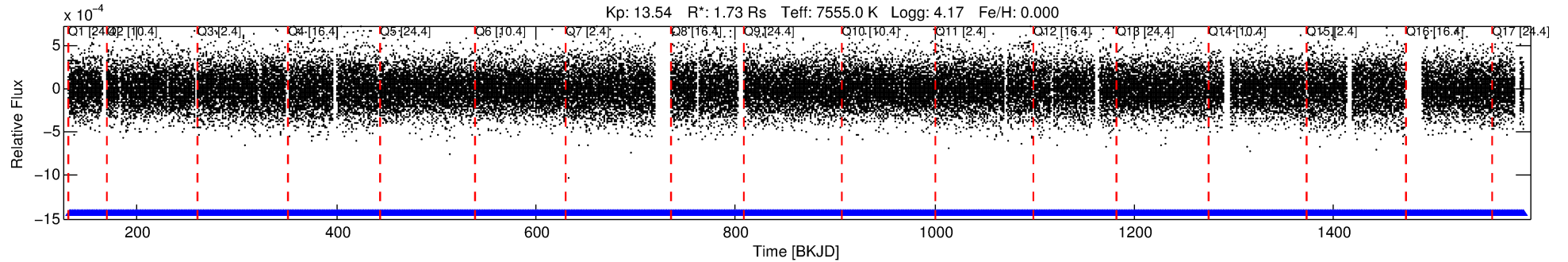
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008329790-01

No Significant Match Found

DV One-Page Summary

KIC: 8329790 Candidate: 1 of 1 Period: 1.145 d



DV Fit Results:

Period = 1.14467 [0.00002] d
Epoch = 132.5188 [0.0066] BKJD
Rp/R* = 0.0043 [0.0032]
a/R* = 1.04 [0.38]
b = 0.39 [10.47]
Seff = 13882.21 [5540.08]
Teq = 2768 [276] K
Rp = 0.80 [0.66] Re
a = 0.0251 [0.0064] AU
Ag = 6.21 [9.72] [0.54 σ]
Teffp = 6755 [2592] K [1.53 σ]

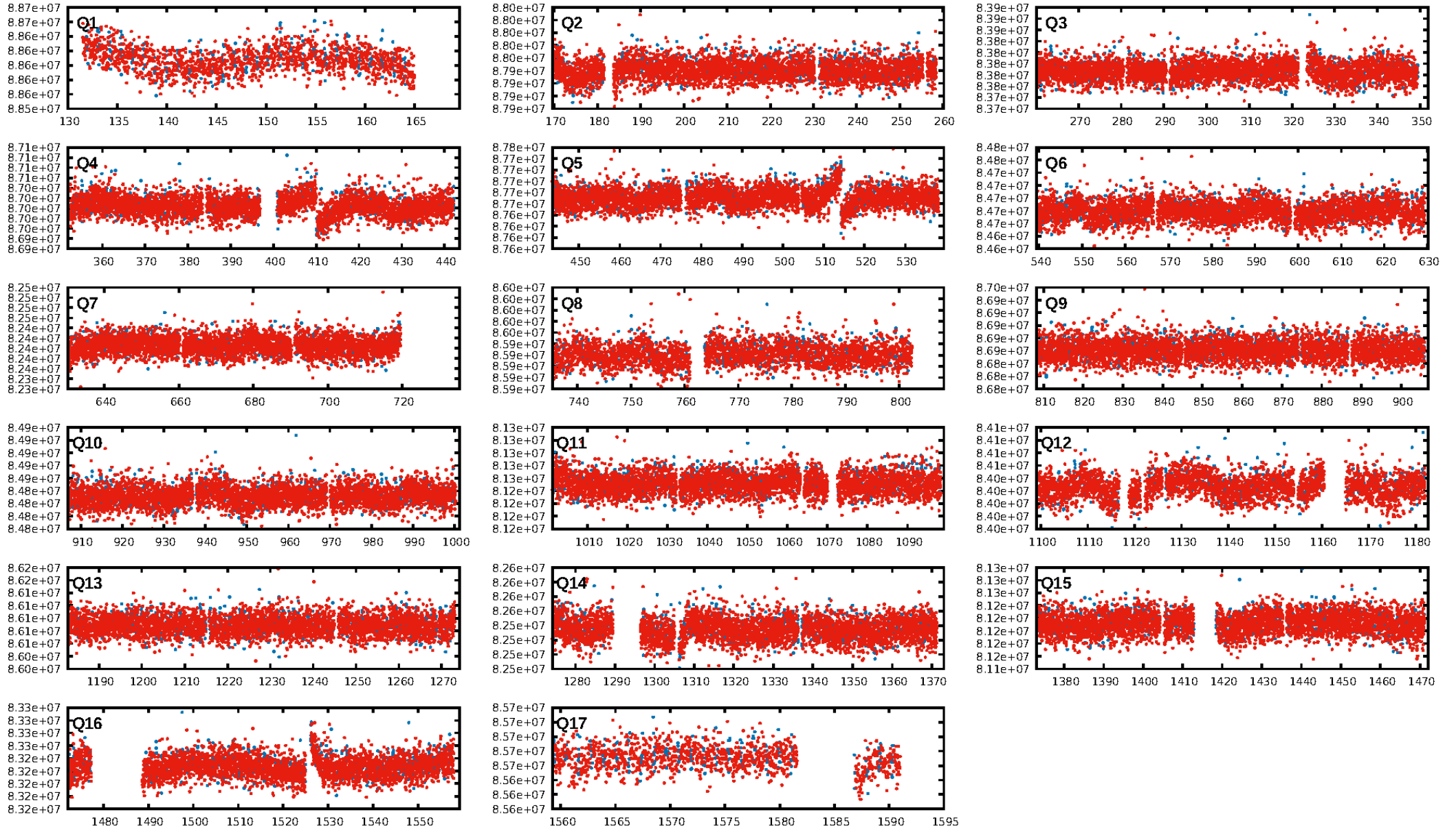
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1139/1139]
GhostDiagnostic-chr: 1.873
Centroid-sig: 89.1%
Centroid-so: 0.673 arcsec [0.70 σ]
OotOffset-rm: 2.915 arcsec [36.94 σ]
KicOffset-rm: 2.751 arcsec [34.85 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [17/17]

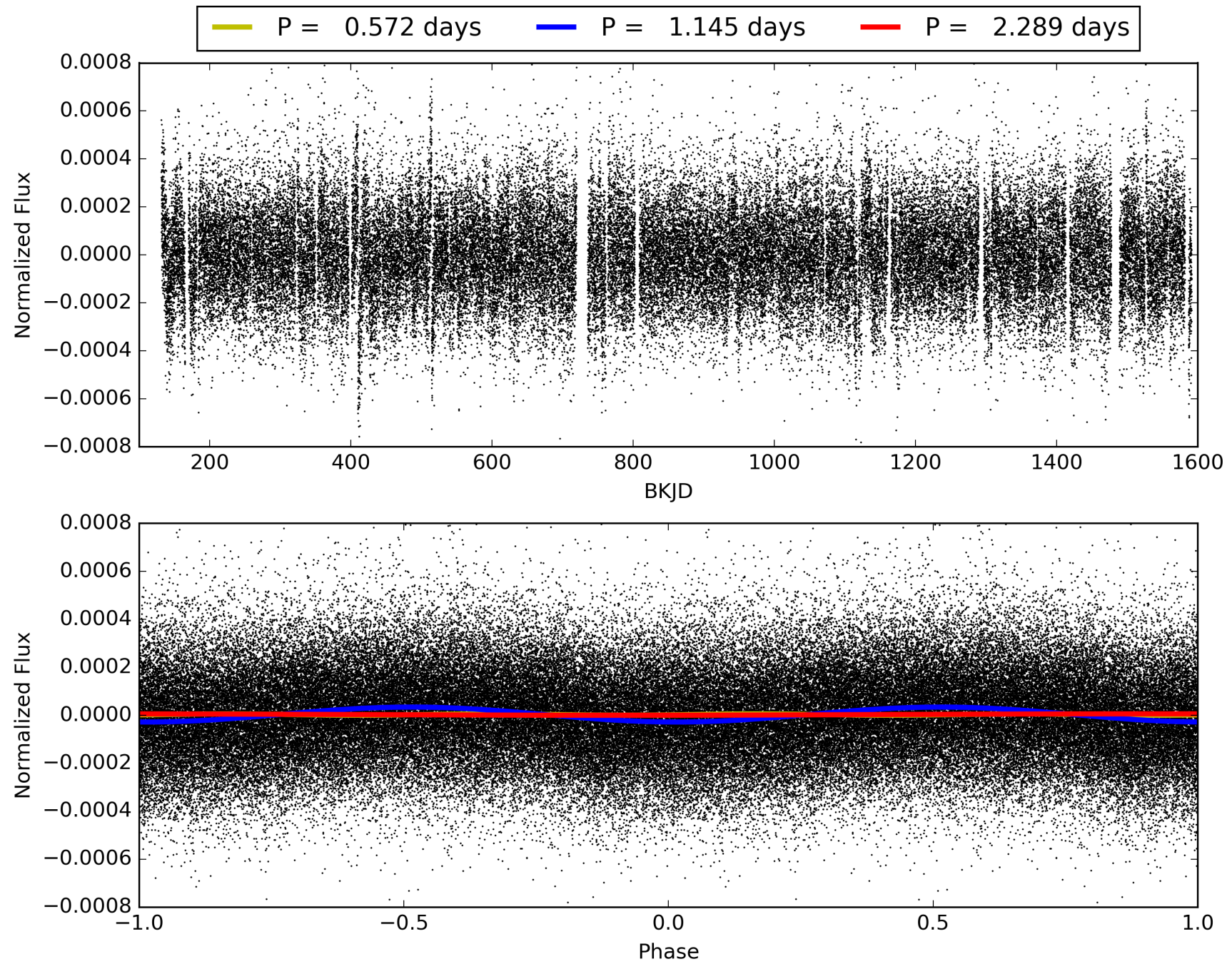
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 22:13:34 Z

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

TCE 008329790-01, PDC Light Curves

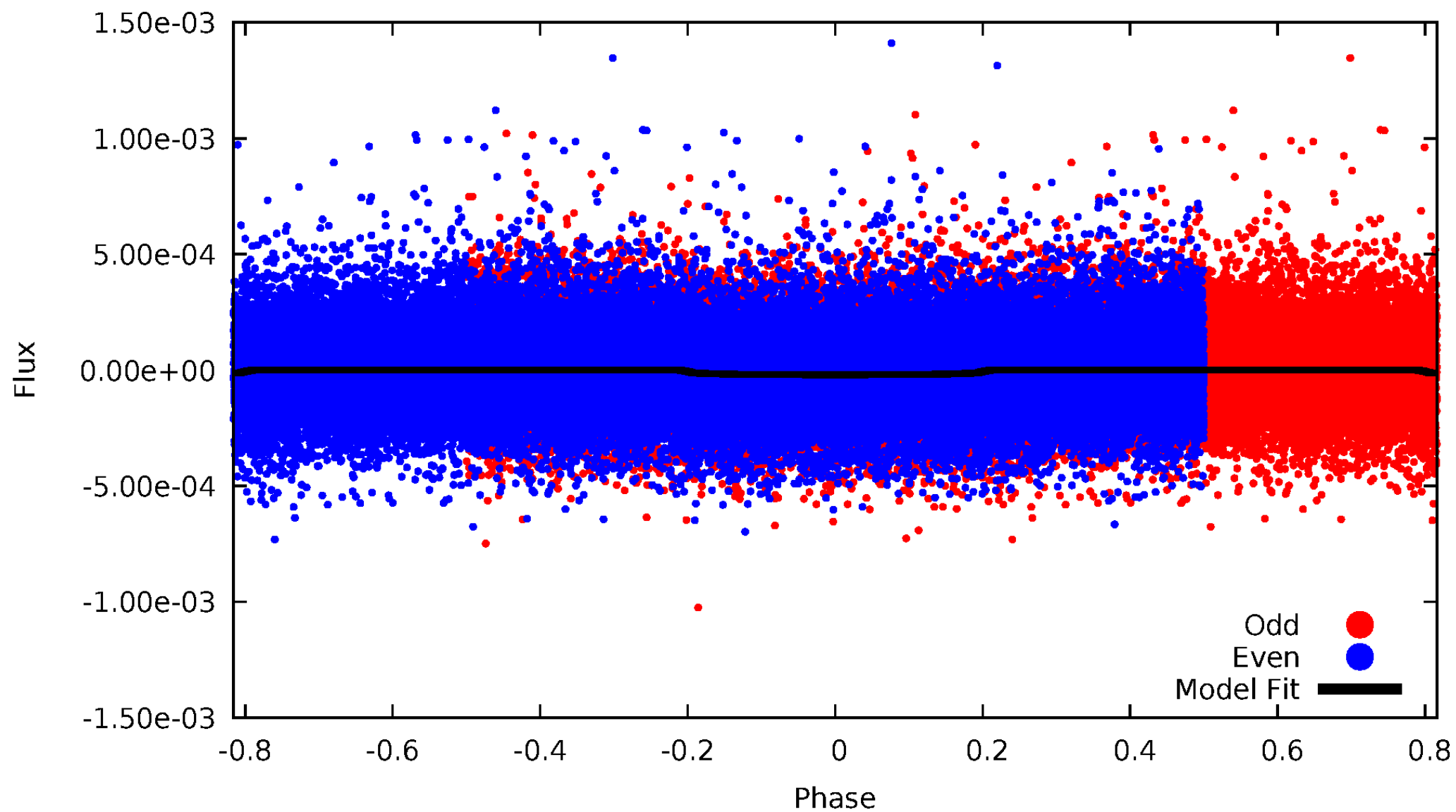


TCE 008329790-01



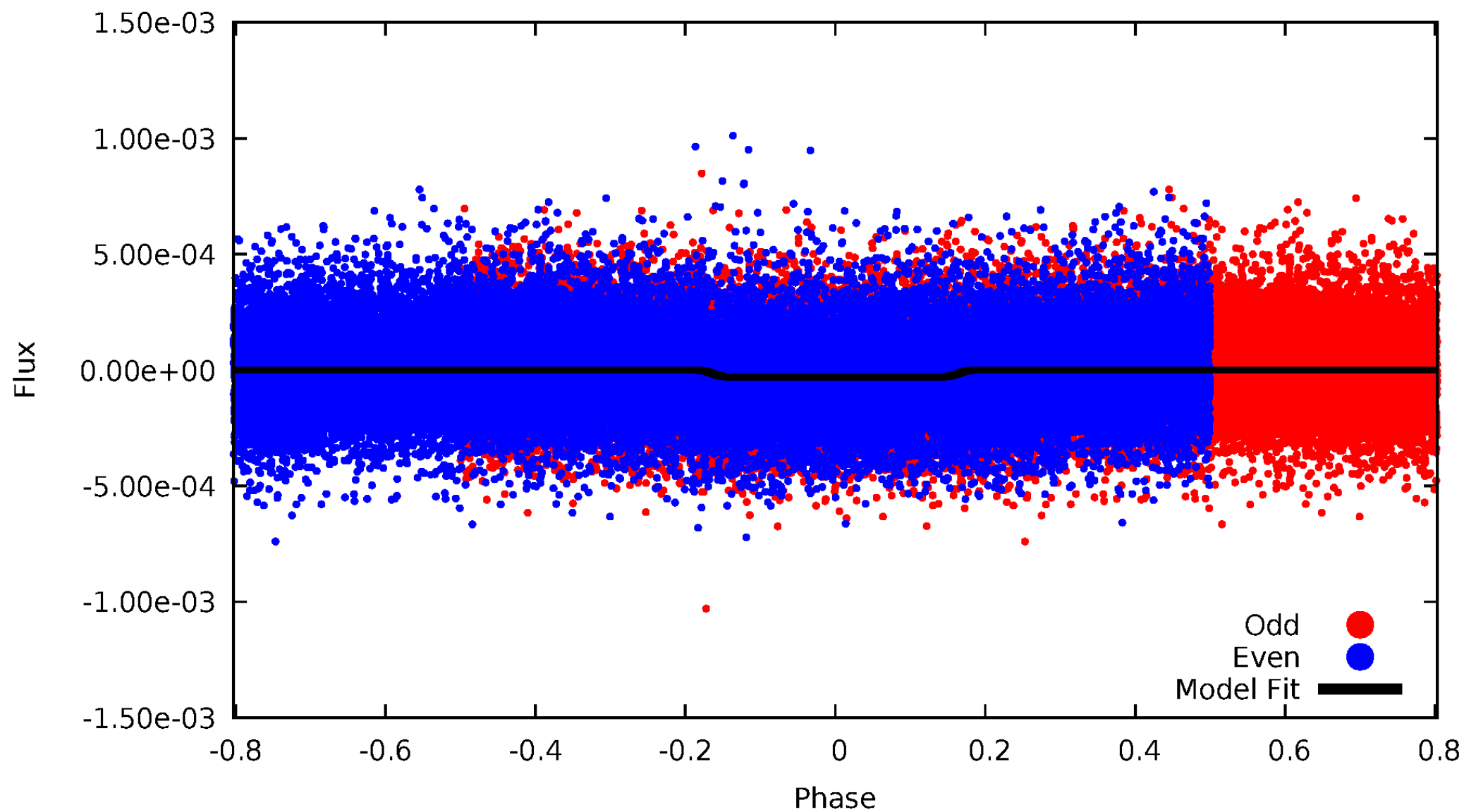
DV Odd/Even

TCE 008329790-01



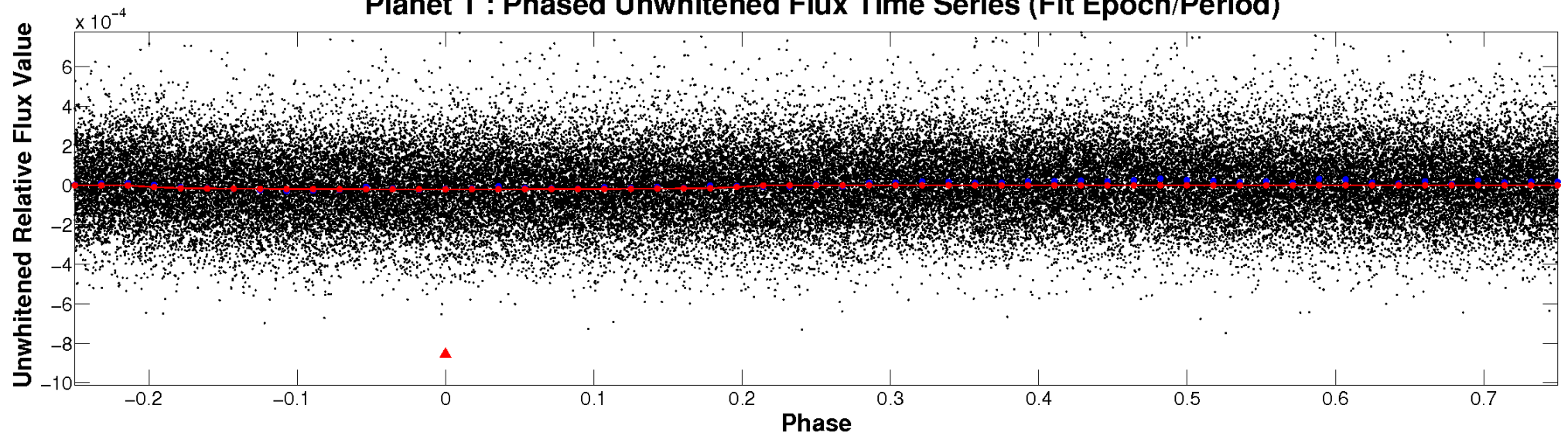
ALT Odd/Even

TCE 008329790-01

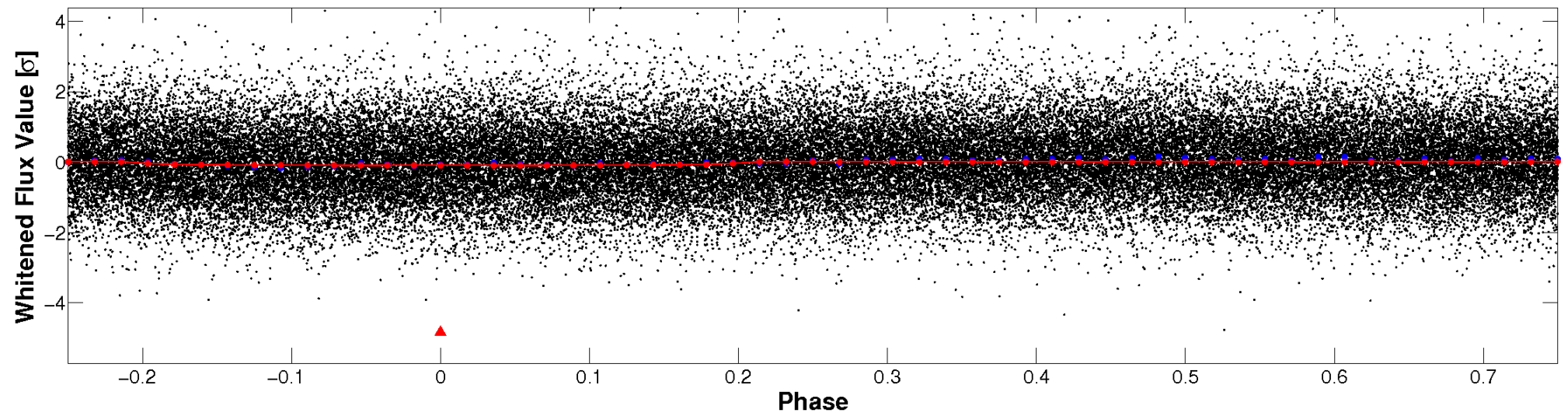


Non-Whitened Vs. Whitened Light Curve

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

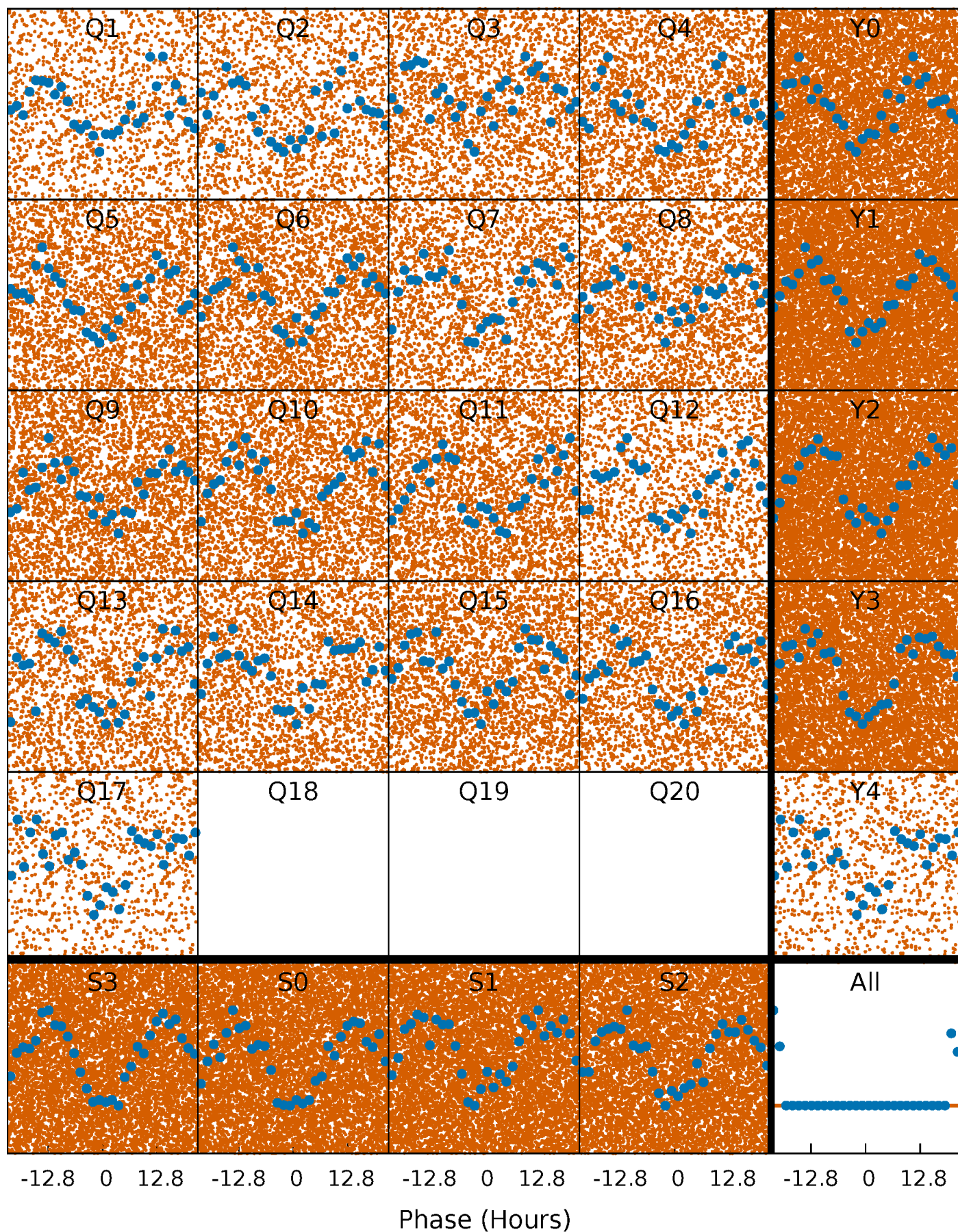


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



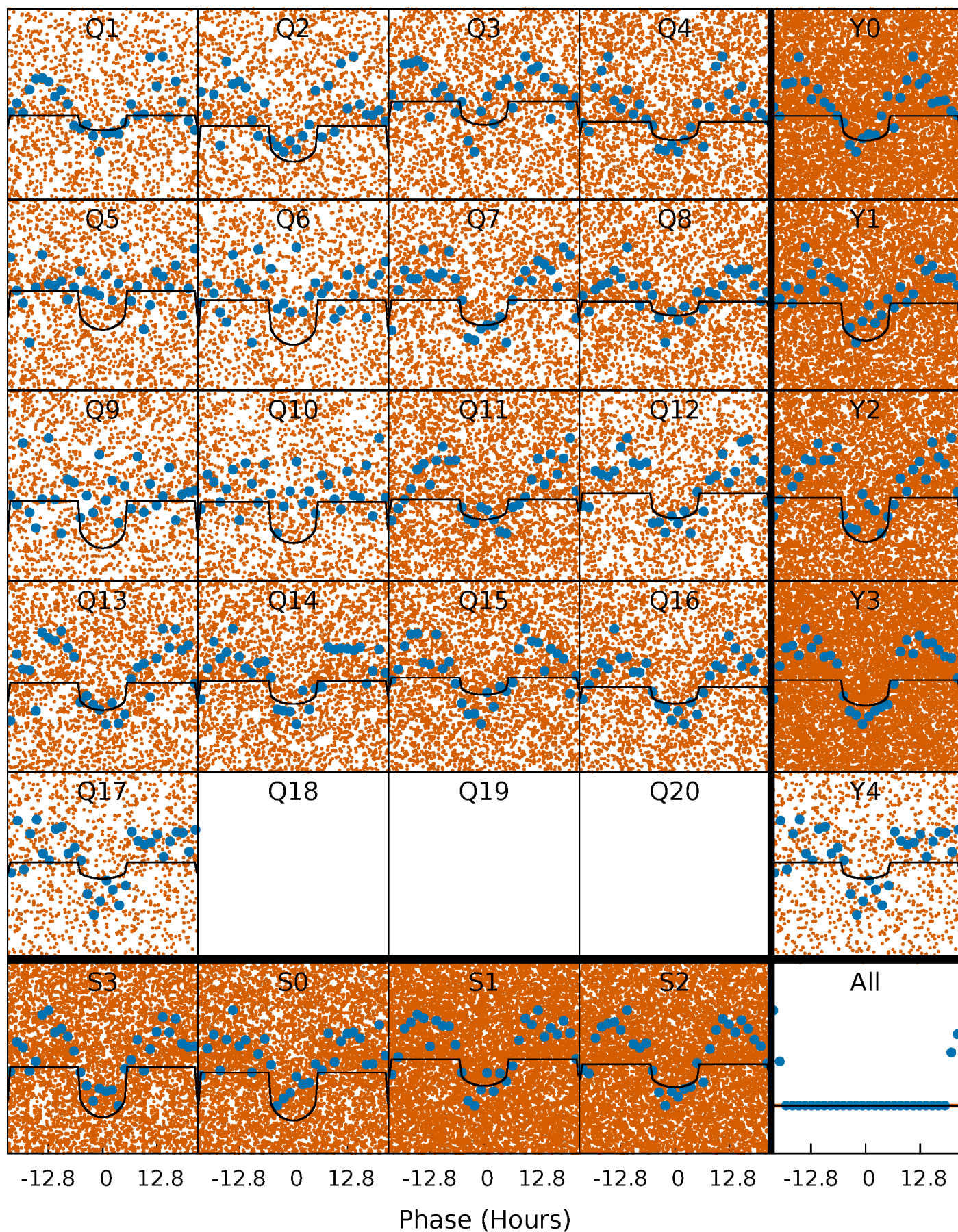
PDC Quarter-Phased Transit Curves

TCE 008329790-01 P= 1.144666 Days $T_0=132.518769$ (BKJD)



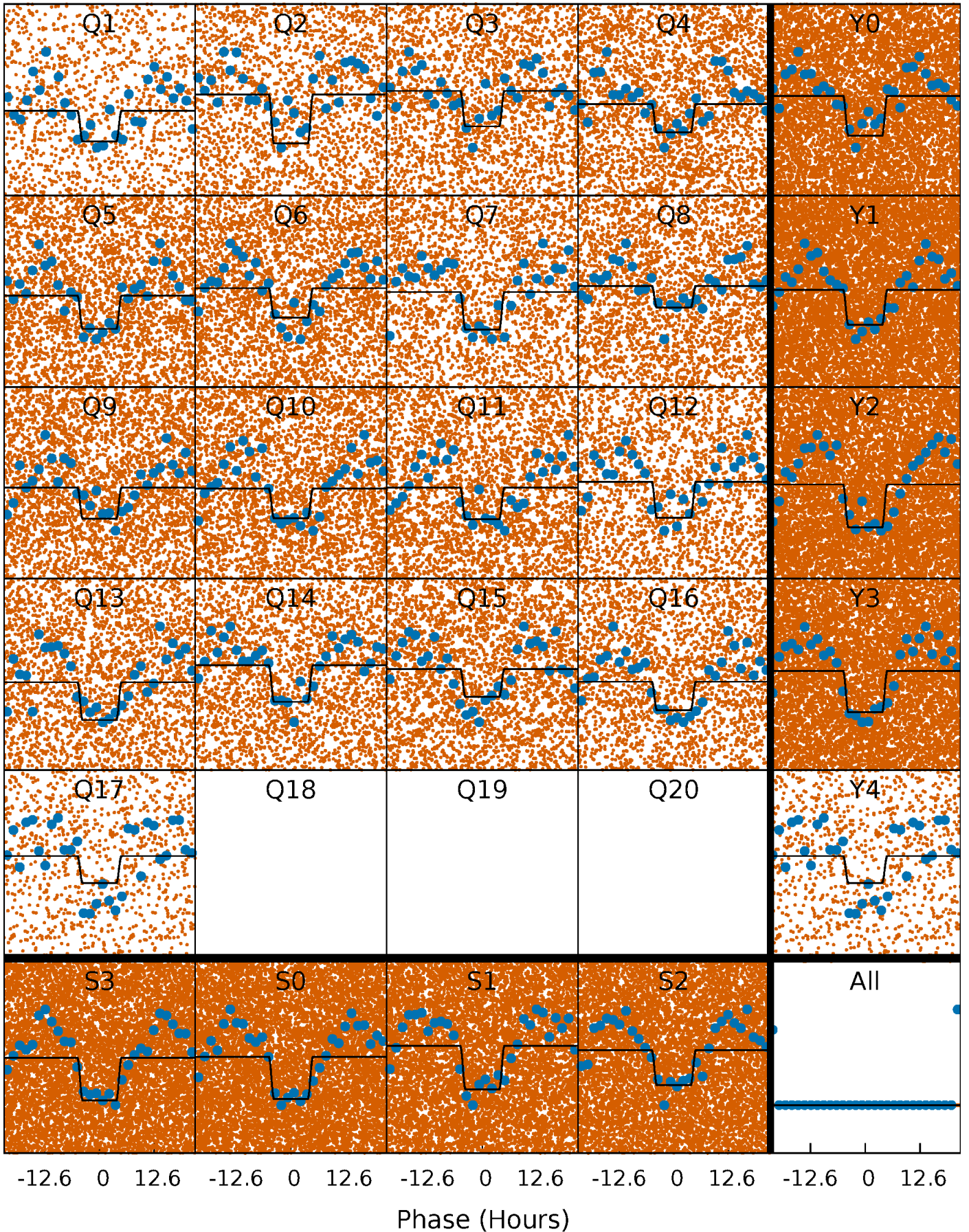
DV Quarter-Phased Transit Curves

TCE 008329790-01 P= 1.144666 Days $T_0=132.518769$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

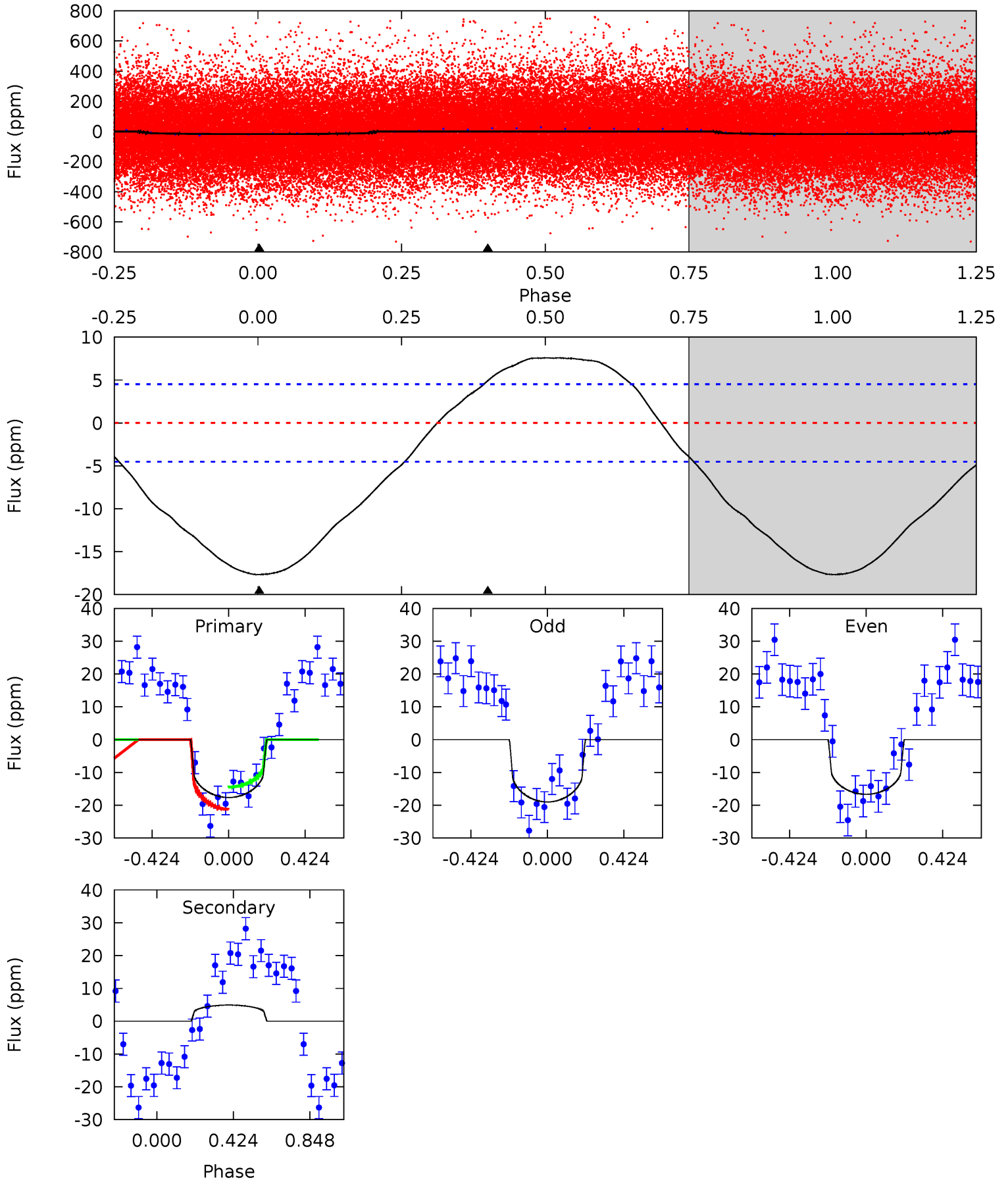
TCE 008329790-01 P= 1.144682 Days $T_0=132.496083$ (BKJD)



DV Model-Shift Uniqueness Test

008329790-01, P = 1.144666 Days, E = 131.374103 Days

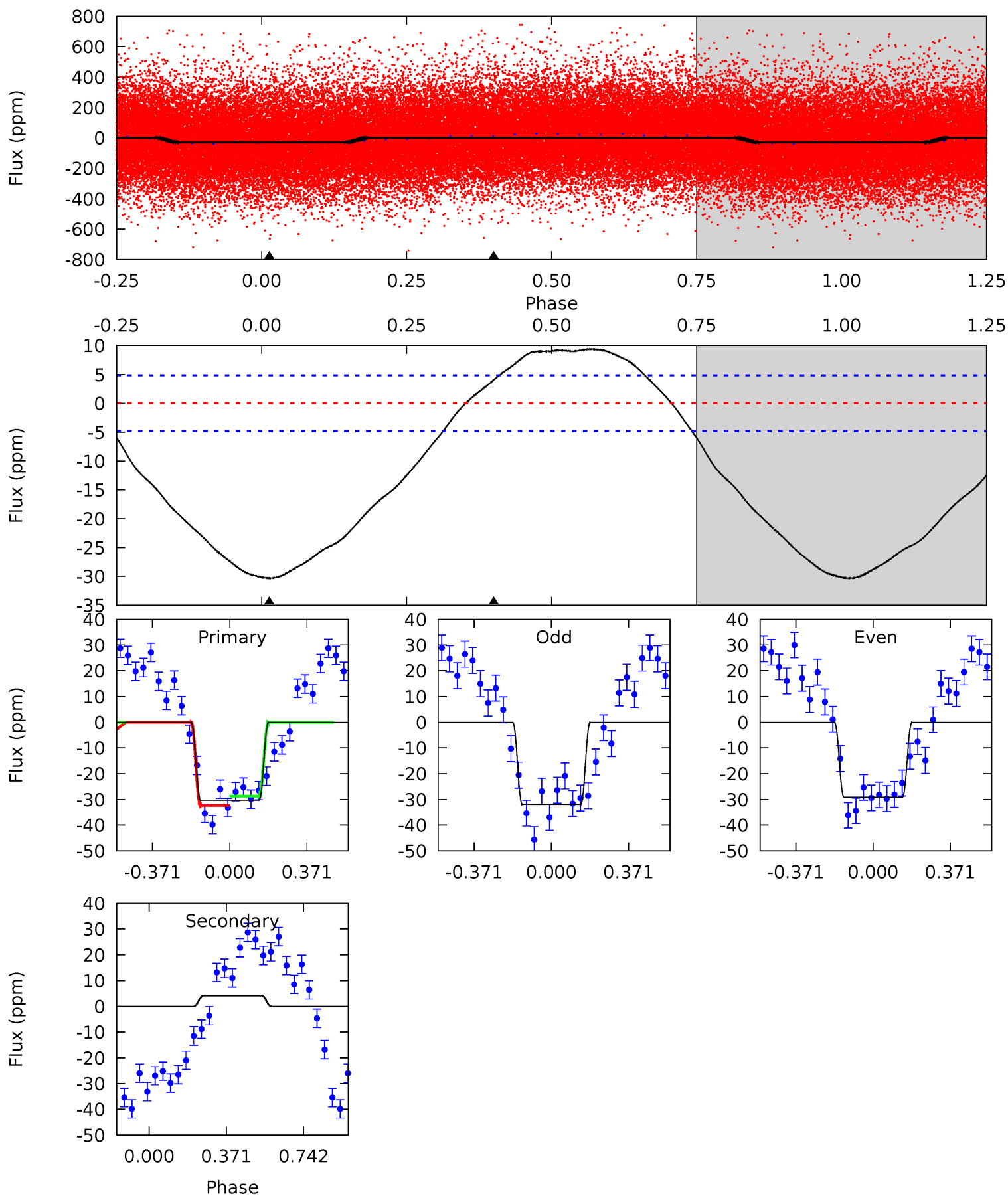
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.6	-4.64	0	0	4.25	0.80	2.46	16.6	16.6	-4.64	-4.64	1.10	1.04	0.30	3.19



Alt Model-Shift Uniqueness Test

008329790-01, P = 1.144682 Days, E = 131.351401 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.9	-3.56	0	0	4.28	0.89	3.18	26.9	26.9	-3.56	-3.56	1.26	1.06	0.24	1.61



Stellar Parameters For KIC 008329790

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7555^{+209}_{-340}	$4.168^{+0.101}_{-0.188}$	$0.000^{+0.200}_{-0.350}$	$1.731^{+0.542}_{-0.292}$	$1.608^{+0.198}_{-0.242}$	$0.437^{+0.237}_{-0.219}$
	+3%/-5%	+2%/-5%	+inf%/-inf%	+31%/-17%	+12%/-15%	+54%/-50%
Source	KIC0	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 008329790-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	5 ± 1	$0.89^{+0.63}_{-0.54}$	3883^{+278}_{-234}	-5331^{+855}_{-3017}	$-2.109^{+1.407}_{-10.069}$
Alt.	4 ± 1	$1.08^{+0.67}_{-0.56}$	3903^{+304}_{-253}	-4809^{+609}_{-1548}	$-1.137^{+0.726}_{-3.687}$

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

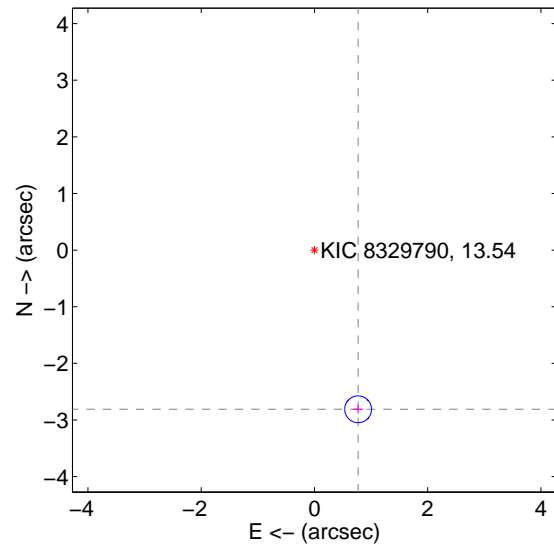
Supplemental centroid analysis for 008329790-01. Kepler magnitude: 13.54. Transit SNR 13.36

There are 0 quarters with good PRF difference image offsets

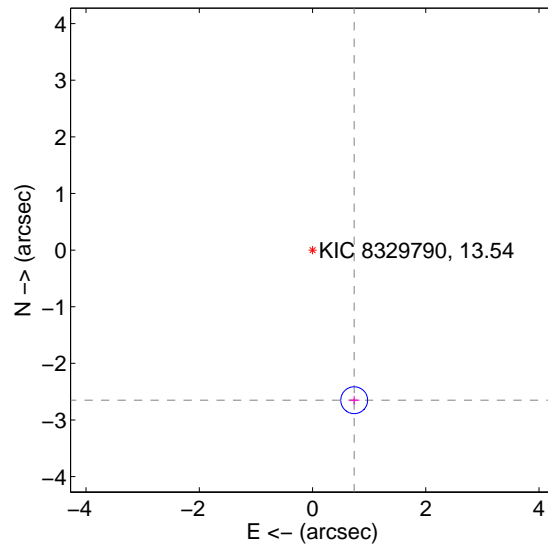
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.915 ± 0.079	36.94	-0.771 ± 0.094	-2.811 ± 0.078
PRF-fit source offset from KIC position	2.751 ± 0.079	34.85	-0.736 ± 0.094	-2.651 ± 0.078
photometric centroid source offset	0.67 ± 0.96	0.70	0.67 ± 0.96	0.08 ± 1.00

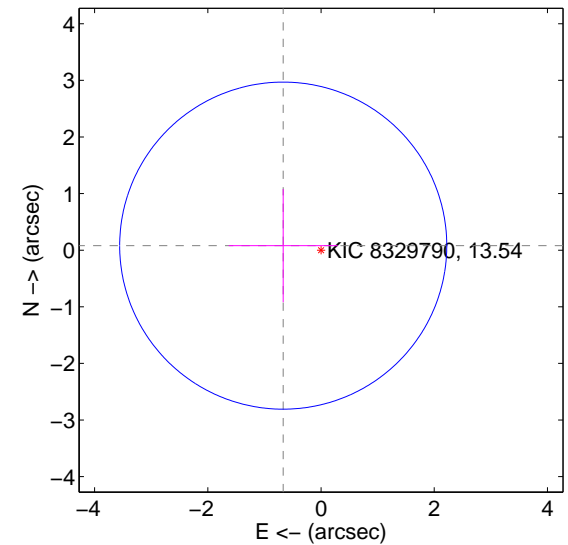
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

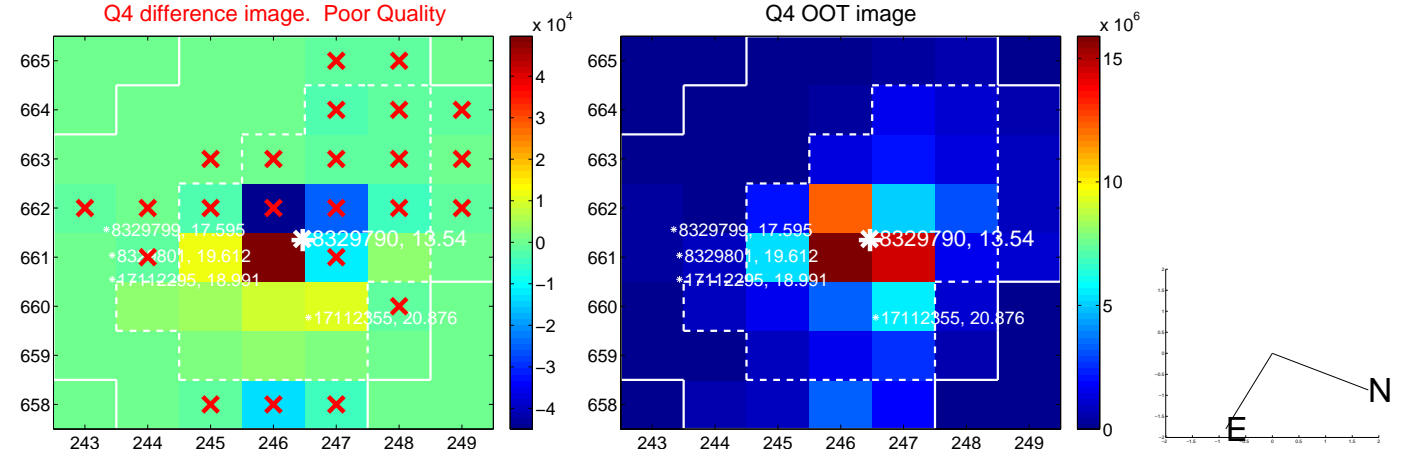
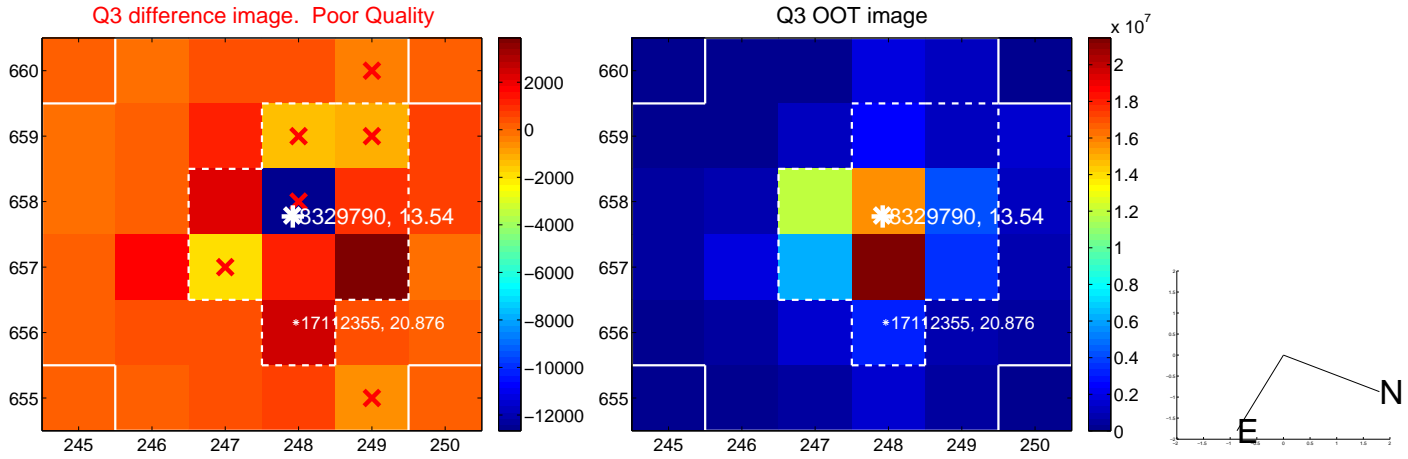
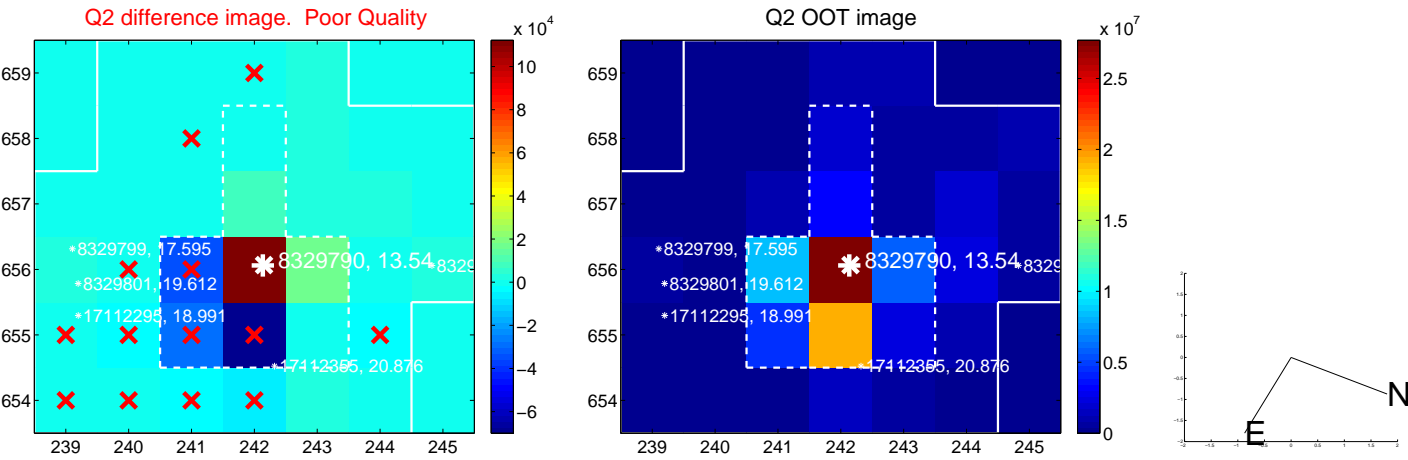
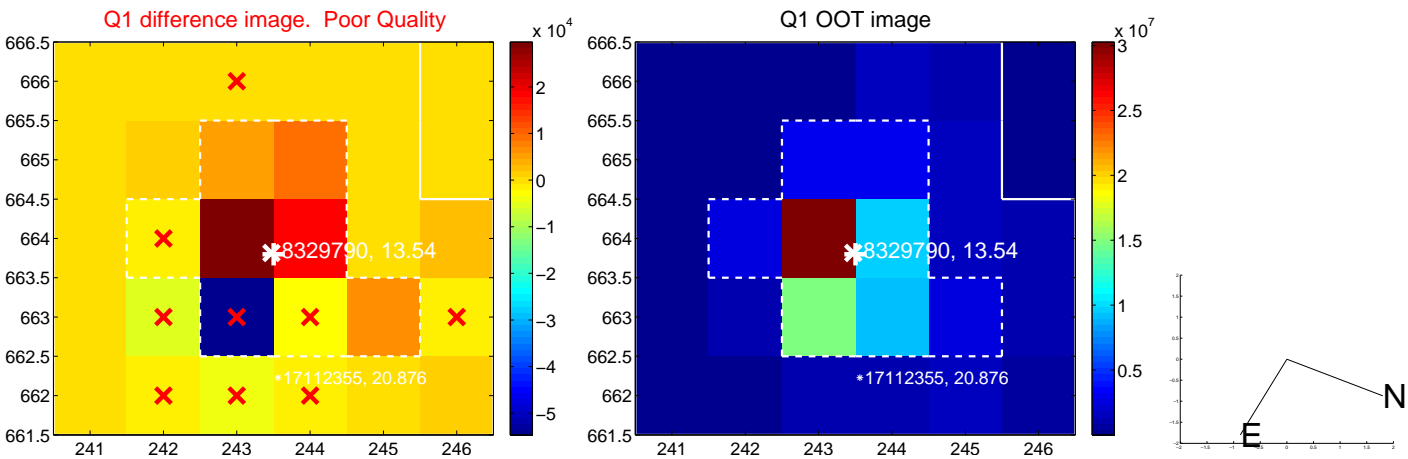


offset from photometric centroids

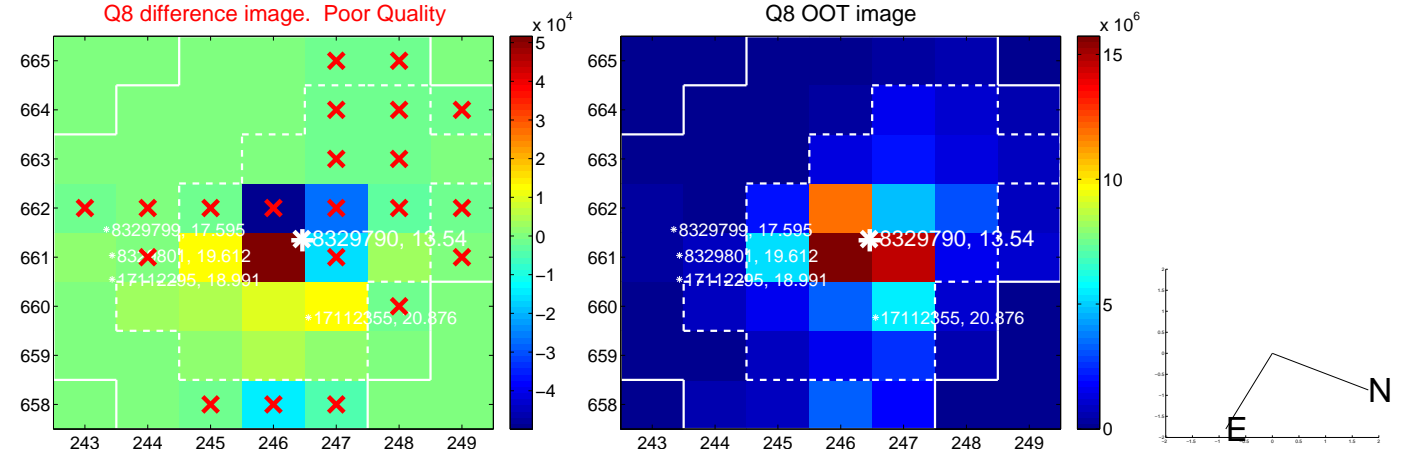
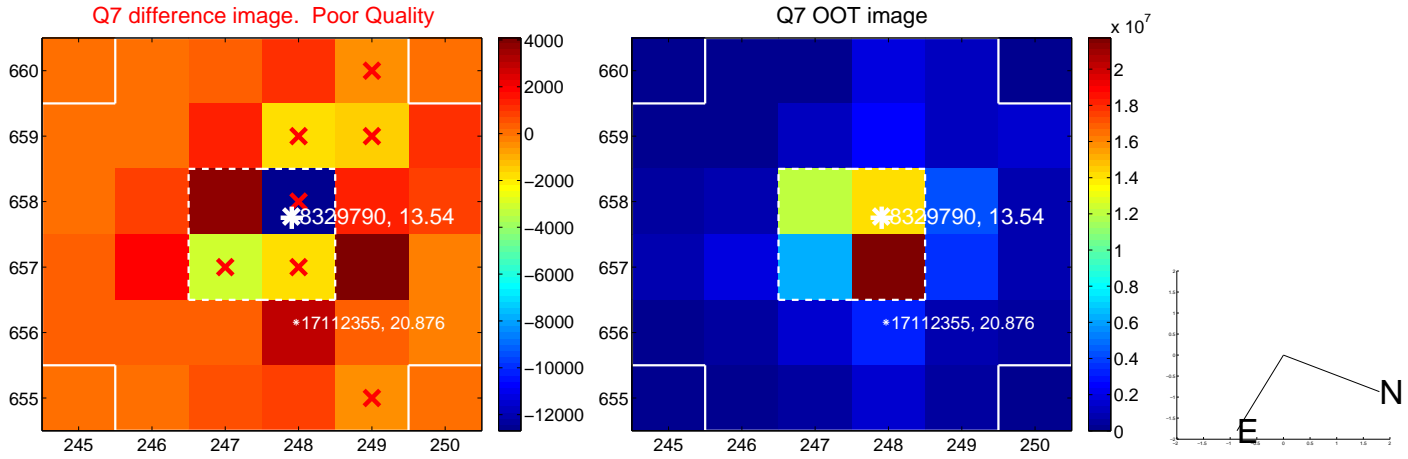
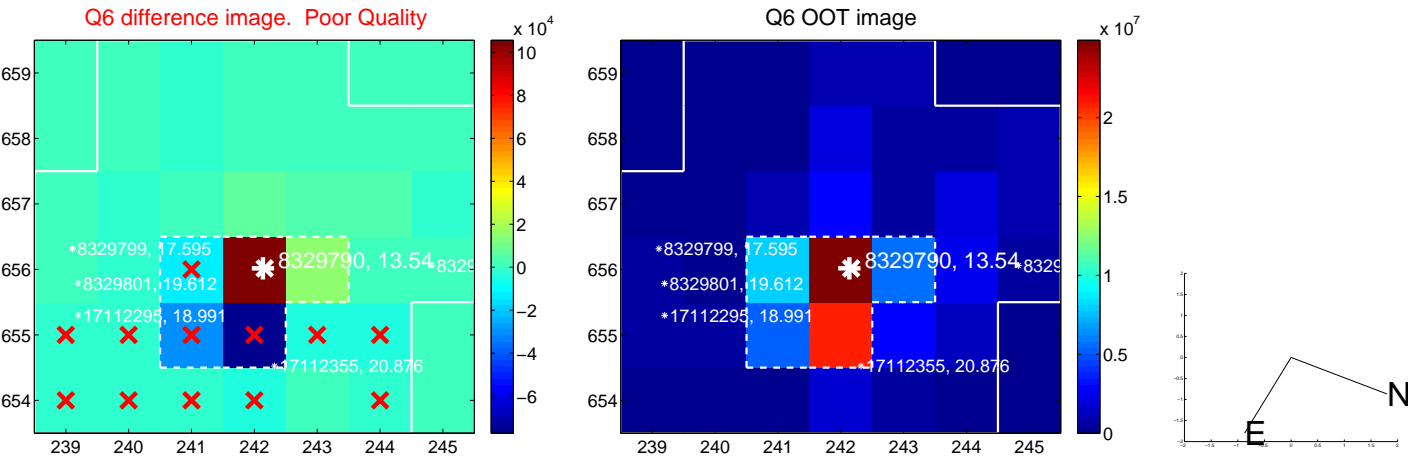
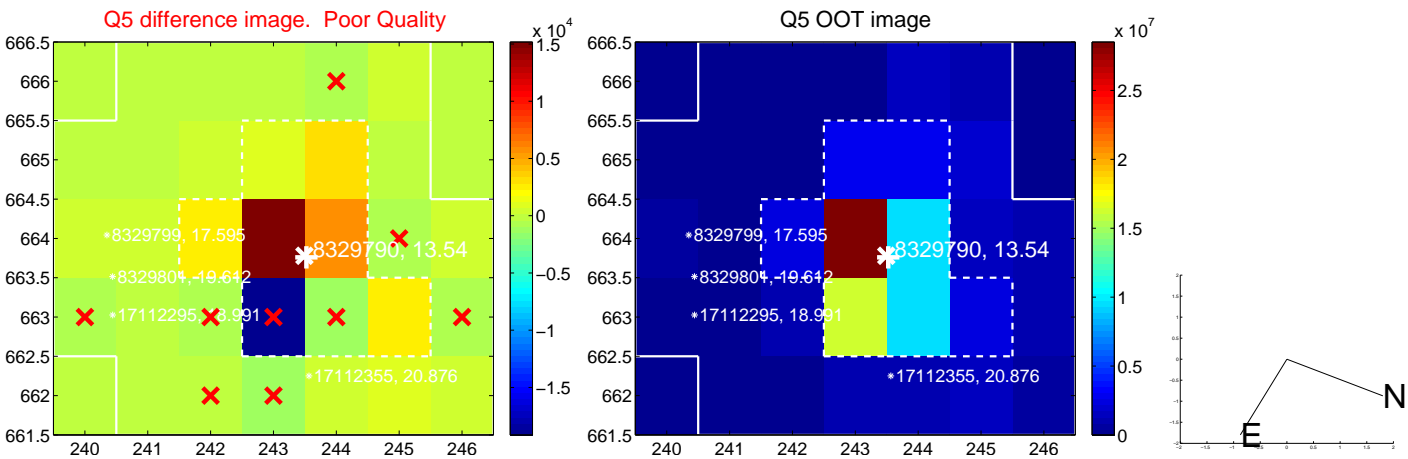


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

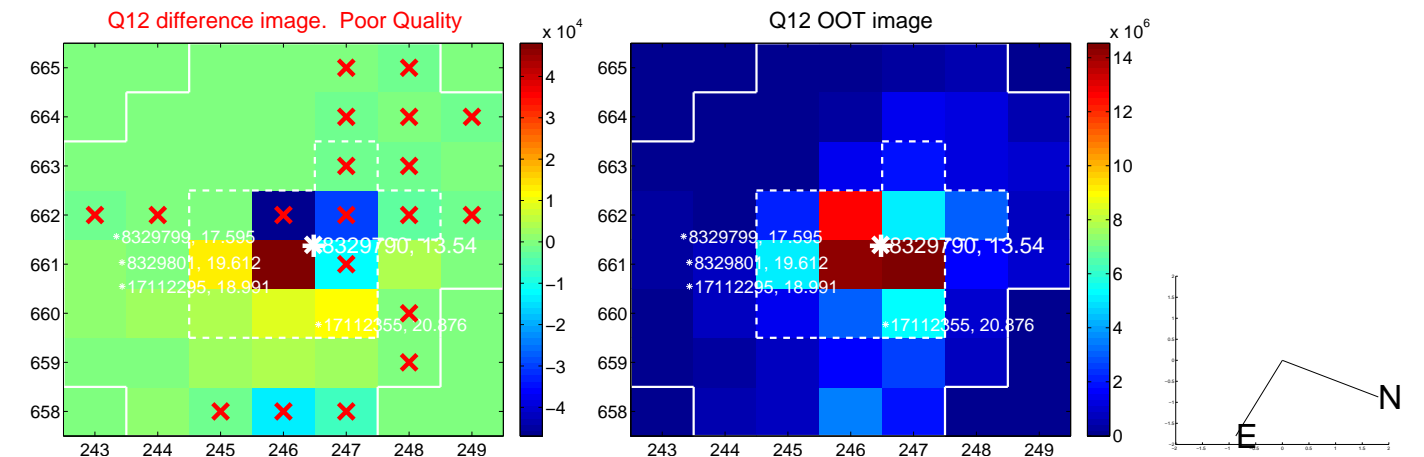
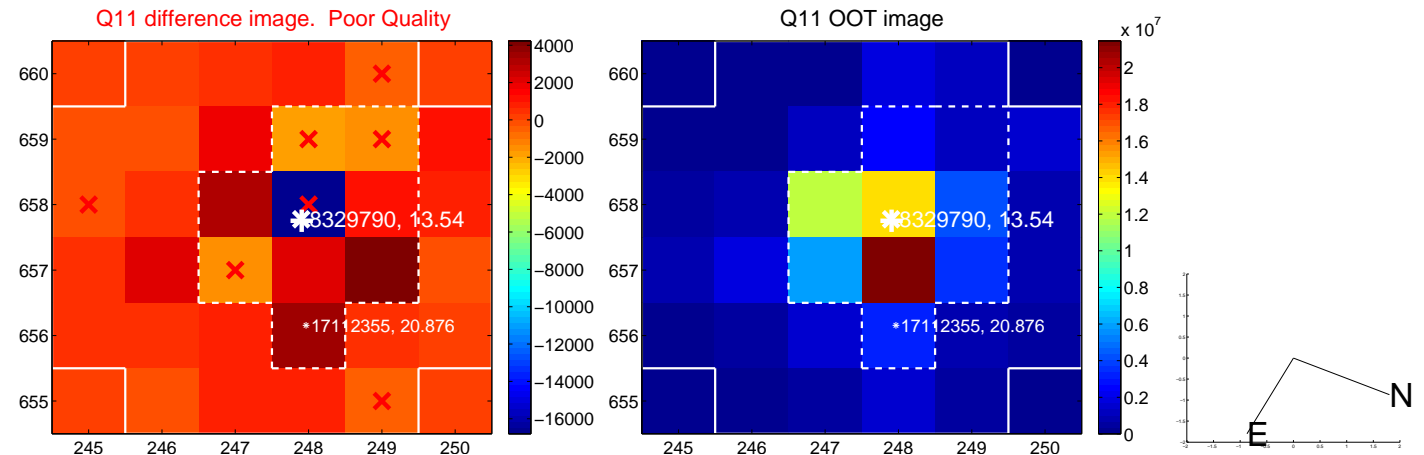
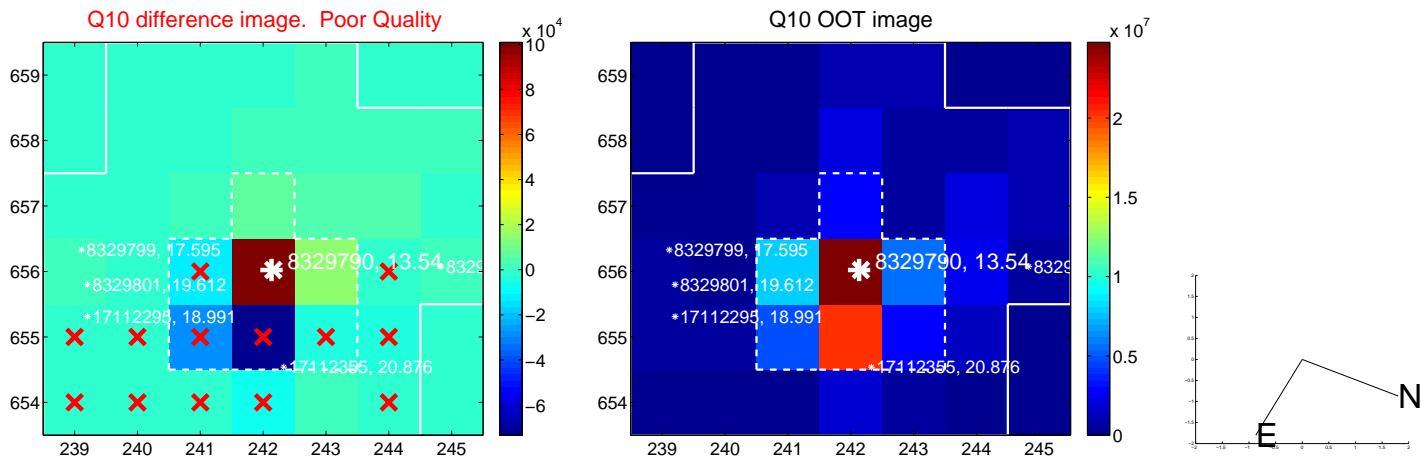
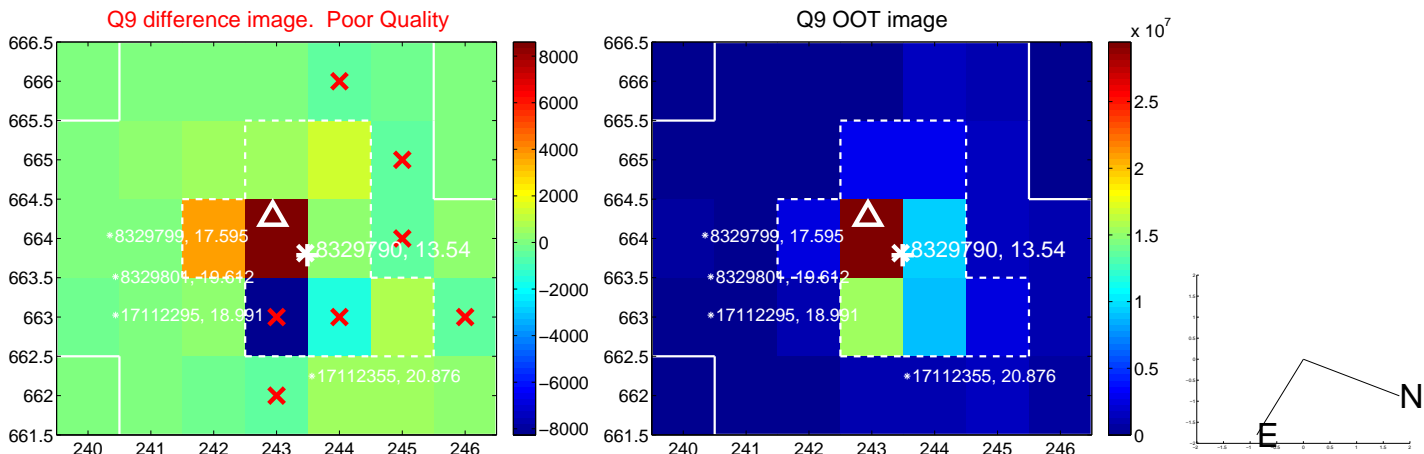
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



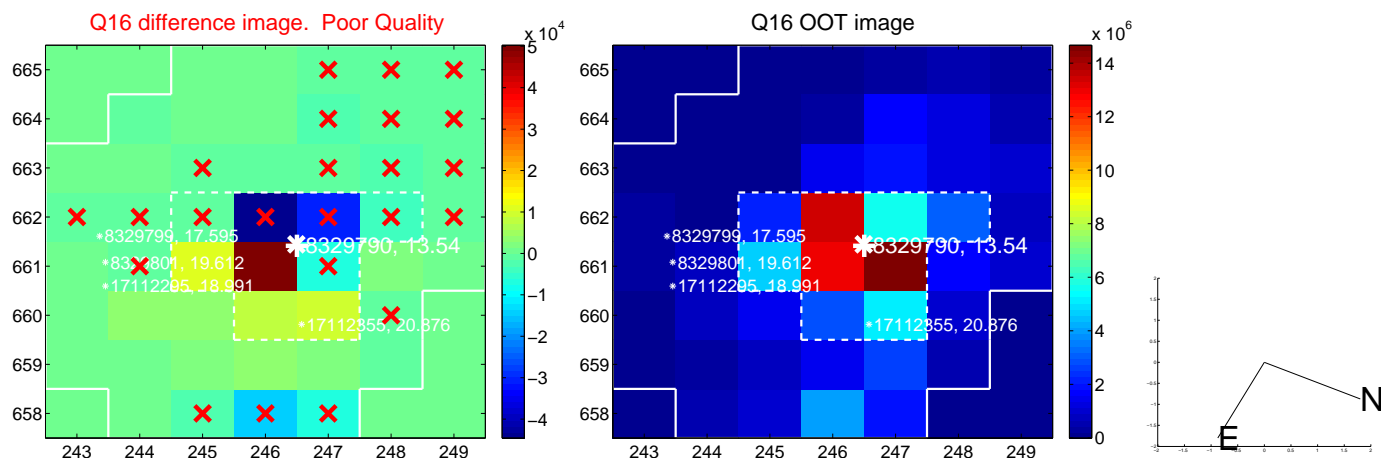
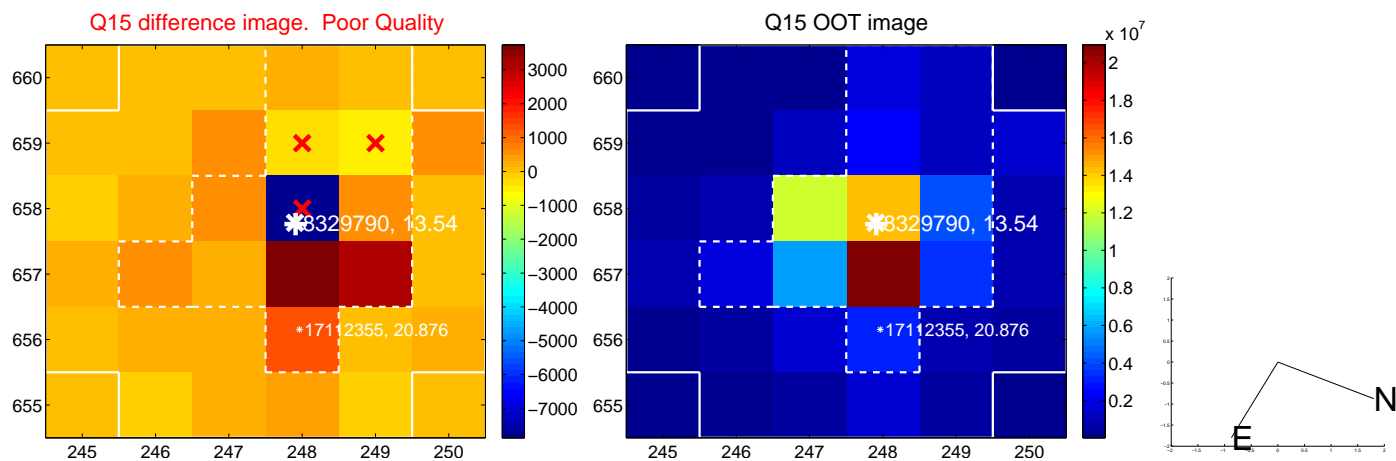
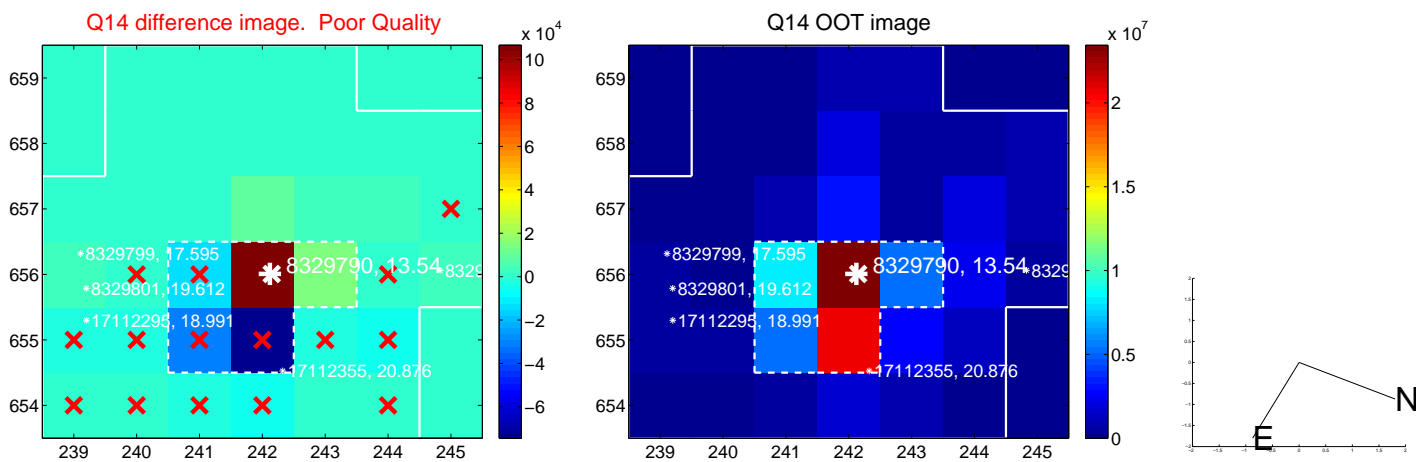
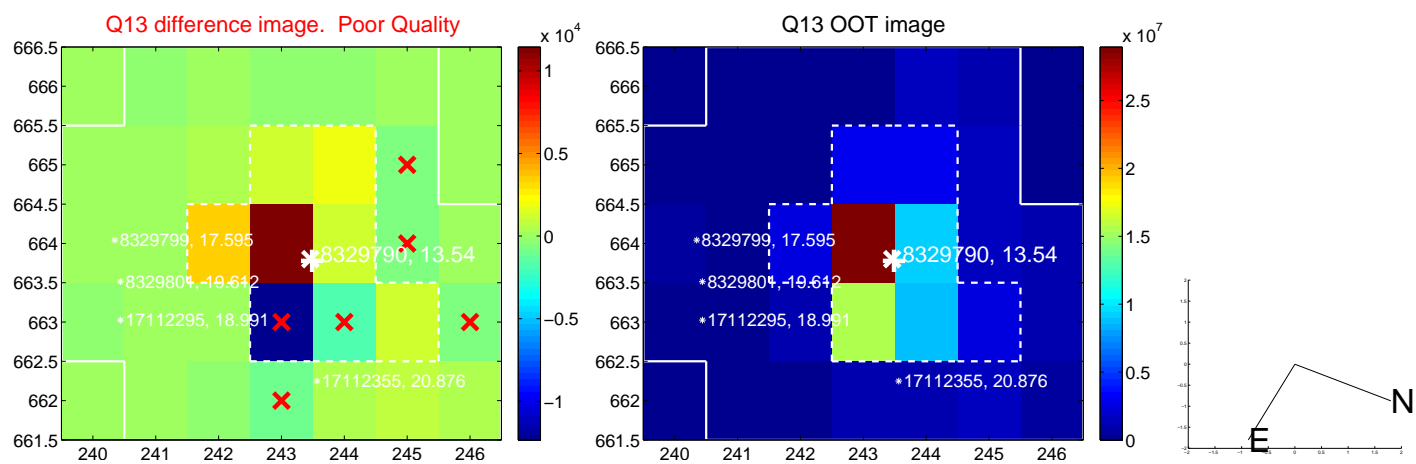
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



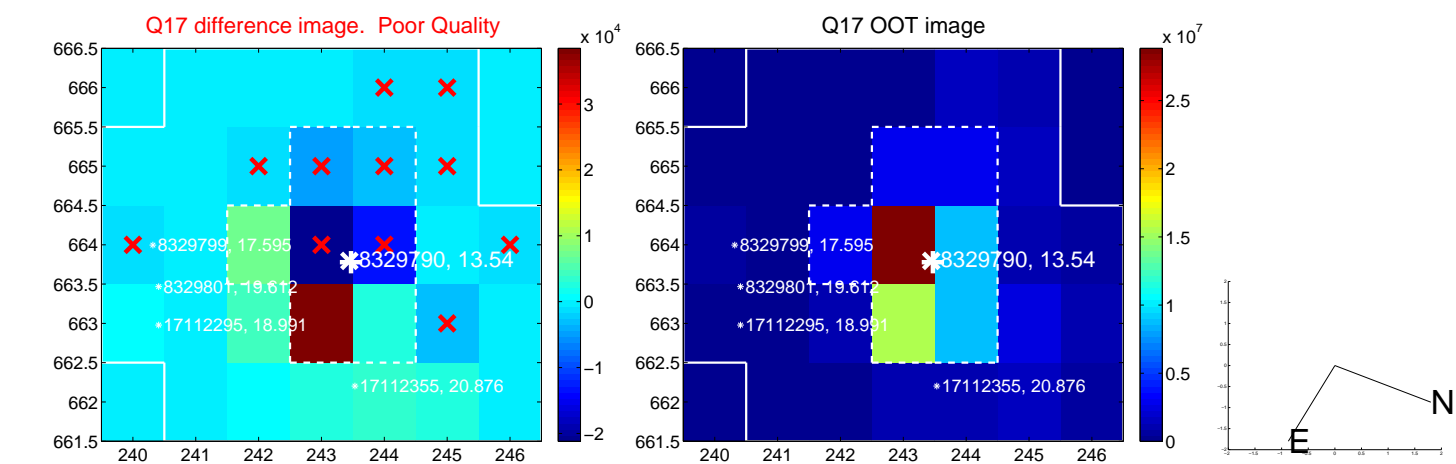
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



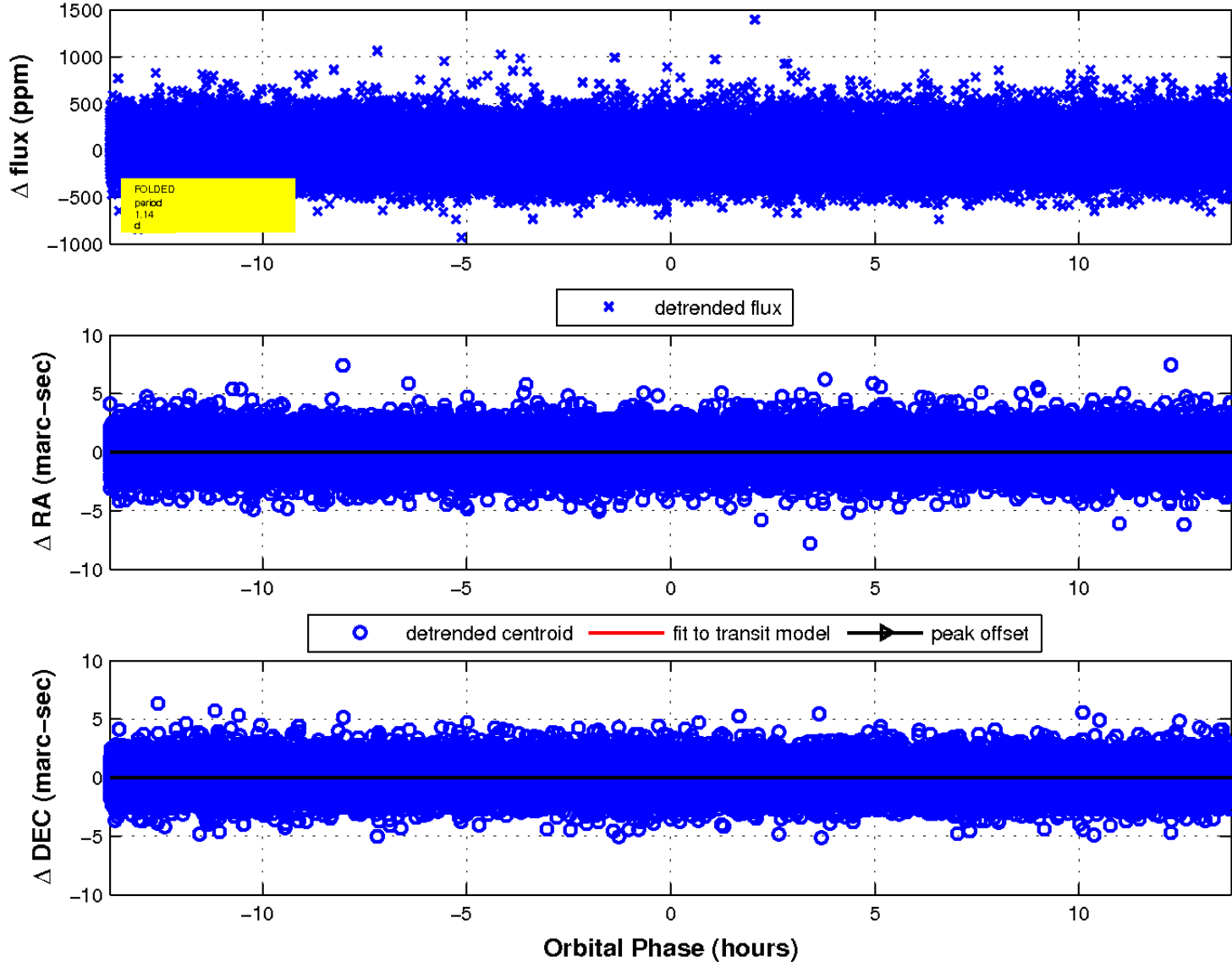
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

