

KIC 011395392

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})
011395392-01	OBS	No	0.733543	131.747033	78.1	4.557	10.7	9.8	1.41	6948	1.41	12893.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011395392-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV

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

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

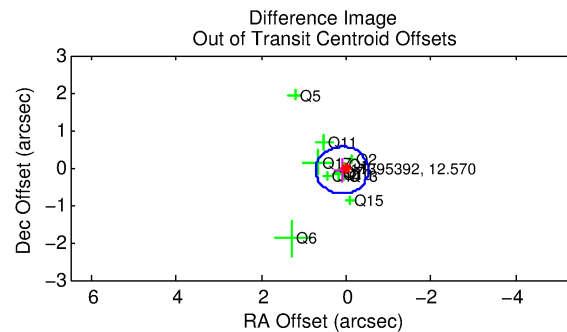
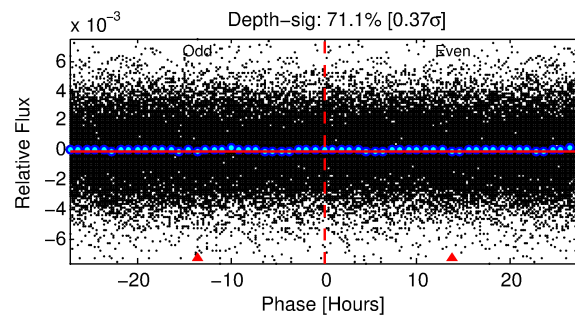
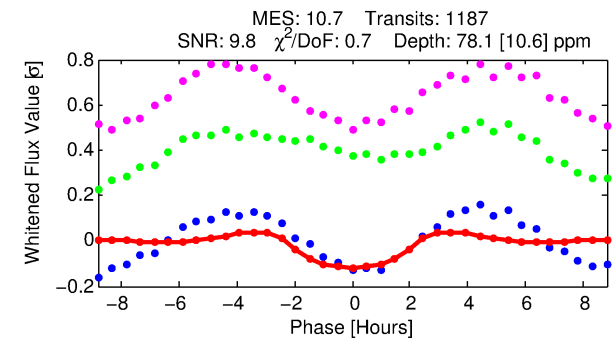
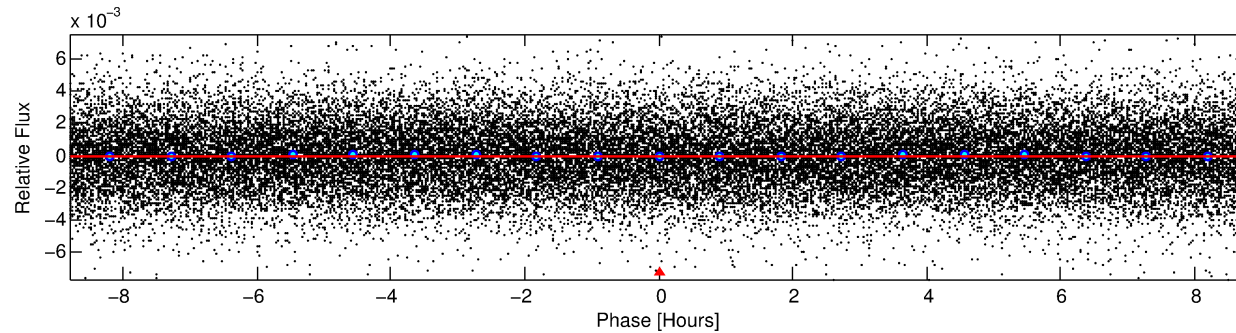
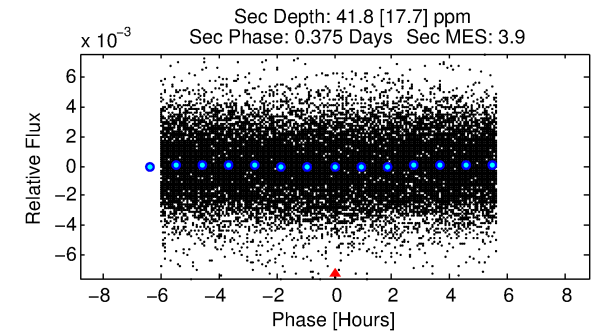
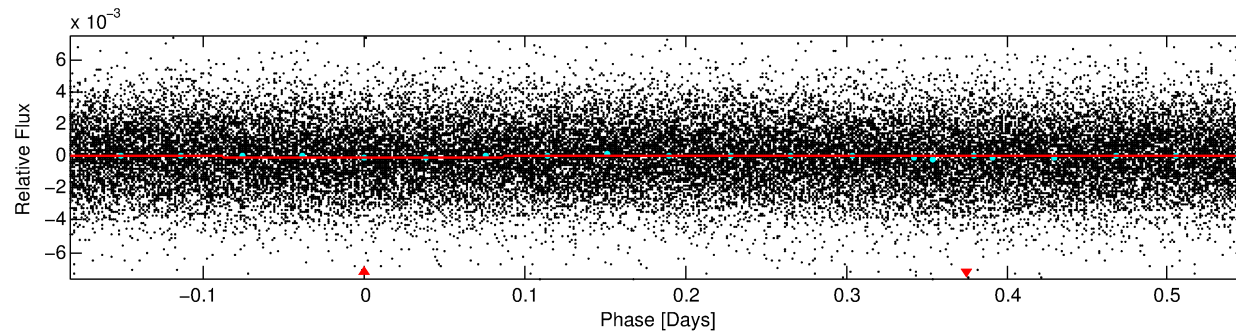
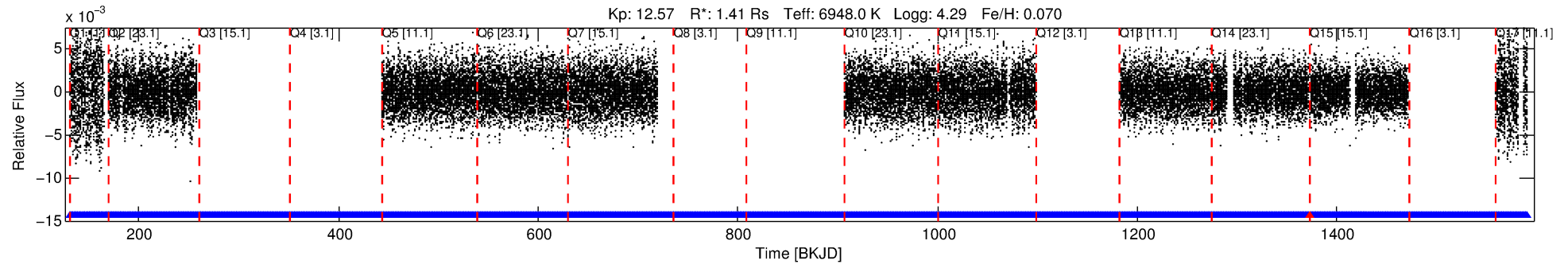
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011395392-01

No Significant Match Found

DV One-Page Summary

KIC: 11395392 Candidate: 1 of 1 Period: 0.734 d



DV Fit Results:

Period = 0.73354 [0.00001] d
Epoch = 131.7470 [0.0053] BKJD
Rp/R* = 0.0092 [0.0130]
a/R* = 1.13 [2.00]
b = 0.86 [2.59]
Seff = 12893.57 [6158.49]
Teff = 2717 [324] K
Rp = 1.41 [2.07] Re
a = 0.0179 [0.0056] AU
Ag = 3.70 [10.74] [0.25σ]
Teffp = 5828 [4186] K [0.74σ]

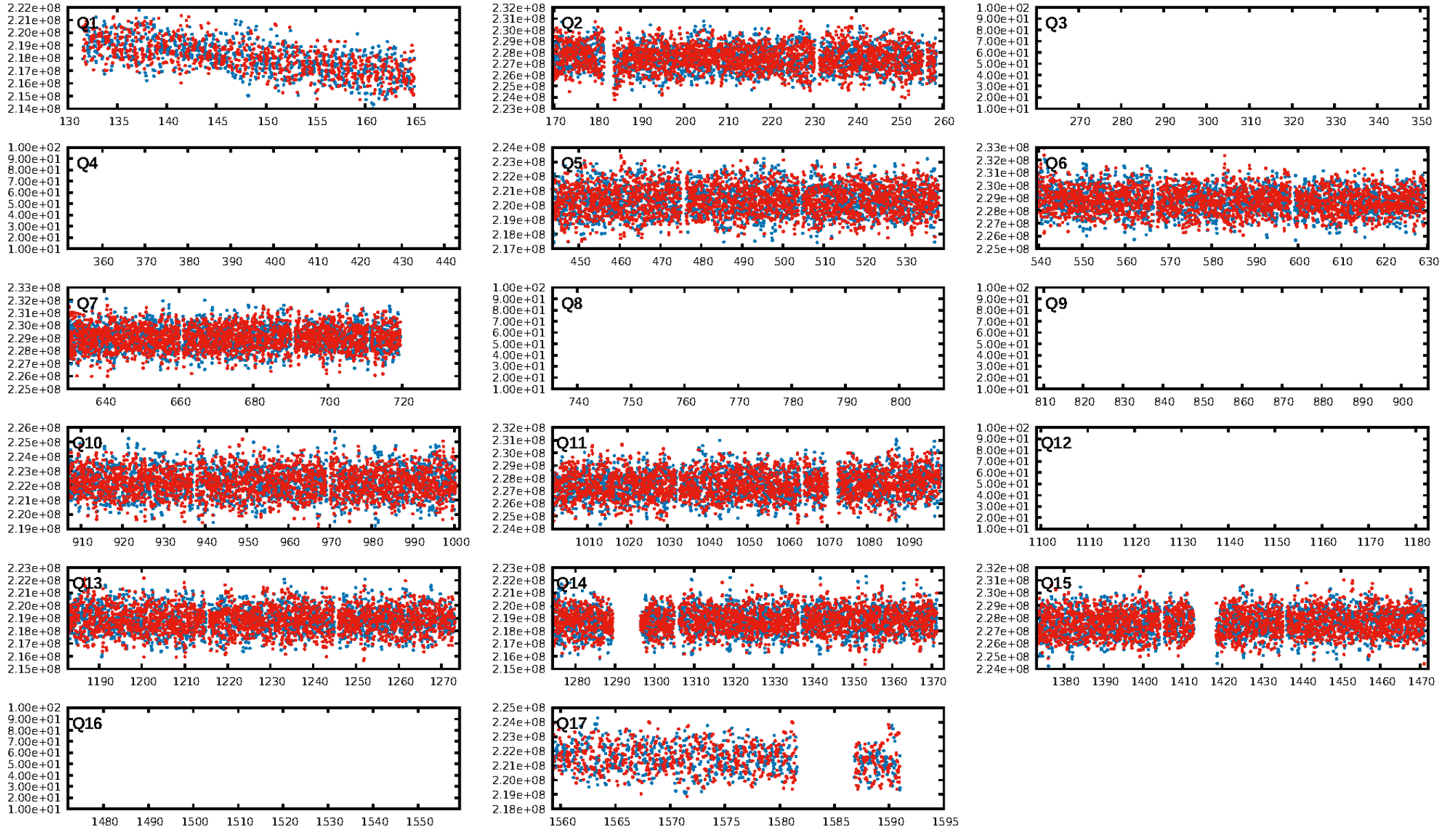
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.01e-29
RollingBand-fgt: 1.00 [1103/1104]
GhostDiagnostic-chr: 1.298
Centroid-sig: 30.7%
Centroid-so: 0.331 arcsec [1.89σ]
OotOffset-rm: 0.116 arcsec [0.56σ]
KicOffset-rm: 0.197 arcsec [0.76σ]
OotOffset-st: 4/3/0/4 [11]
KicOffset-st: 4/3/0/4 [11]
DiffImageQuality-fgm: 0.91 [10/11]
DiffImageOverlap-fno: 1.00 [11/11]

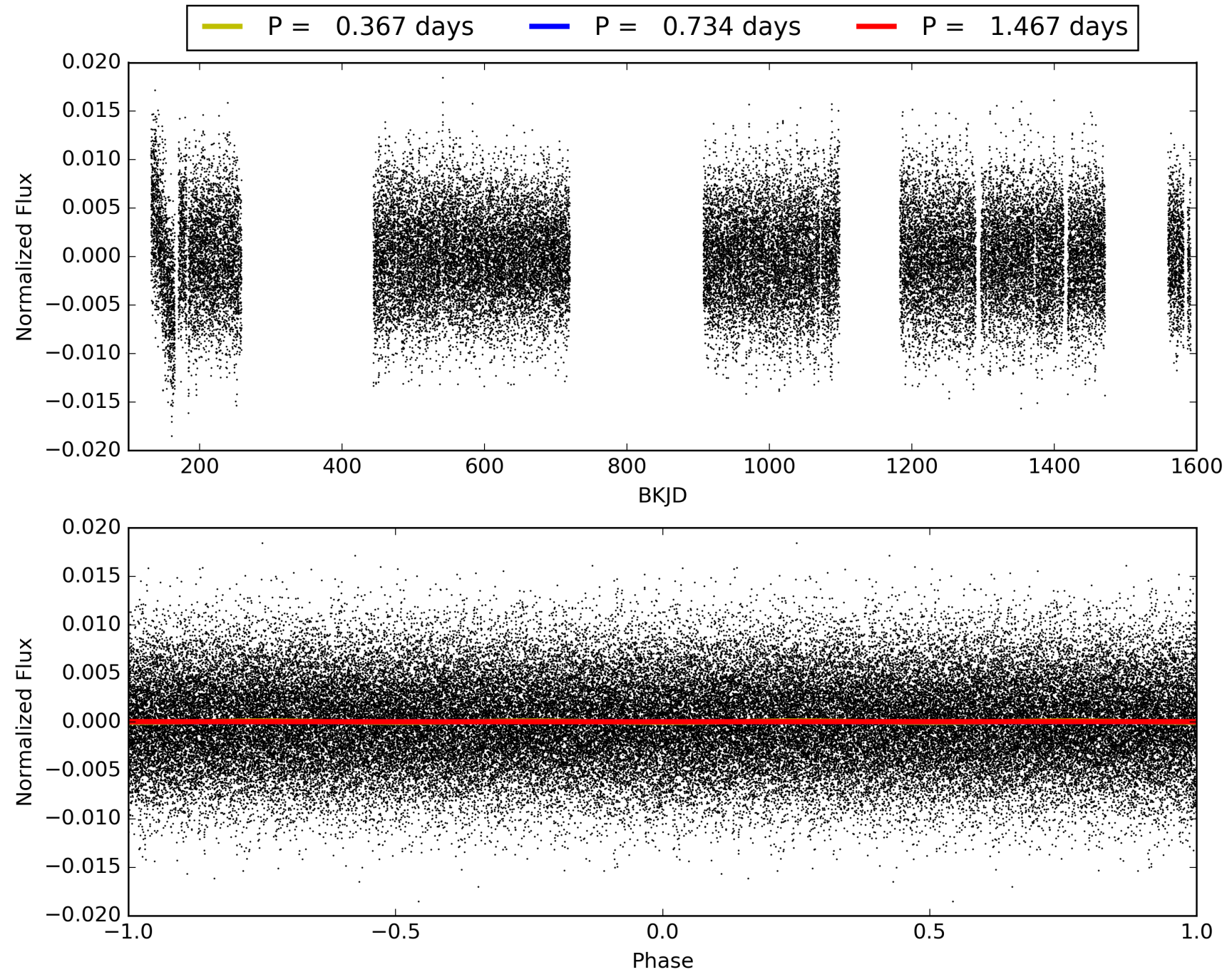
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 23:25:02 Z

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

TCE 011395392-01, PDC Light Curves

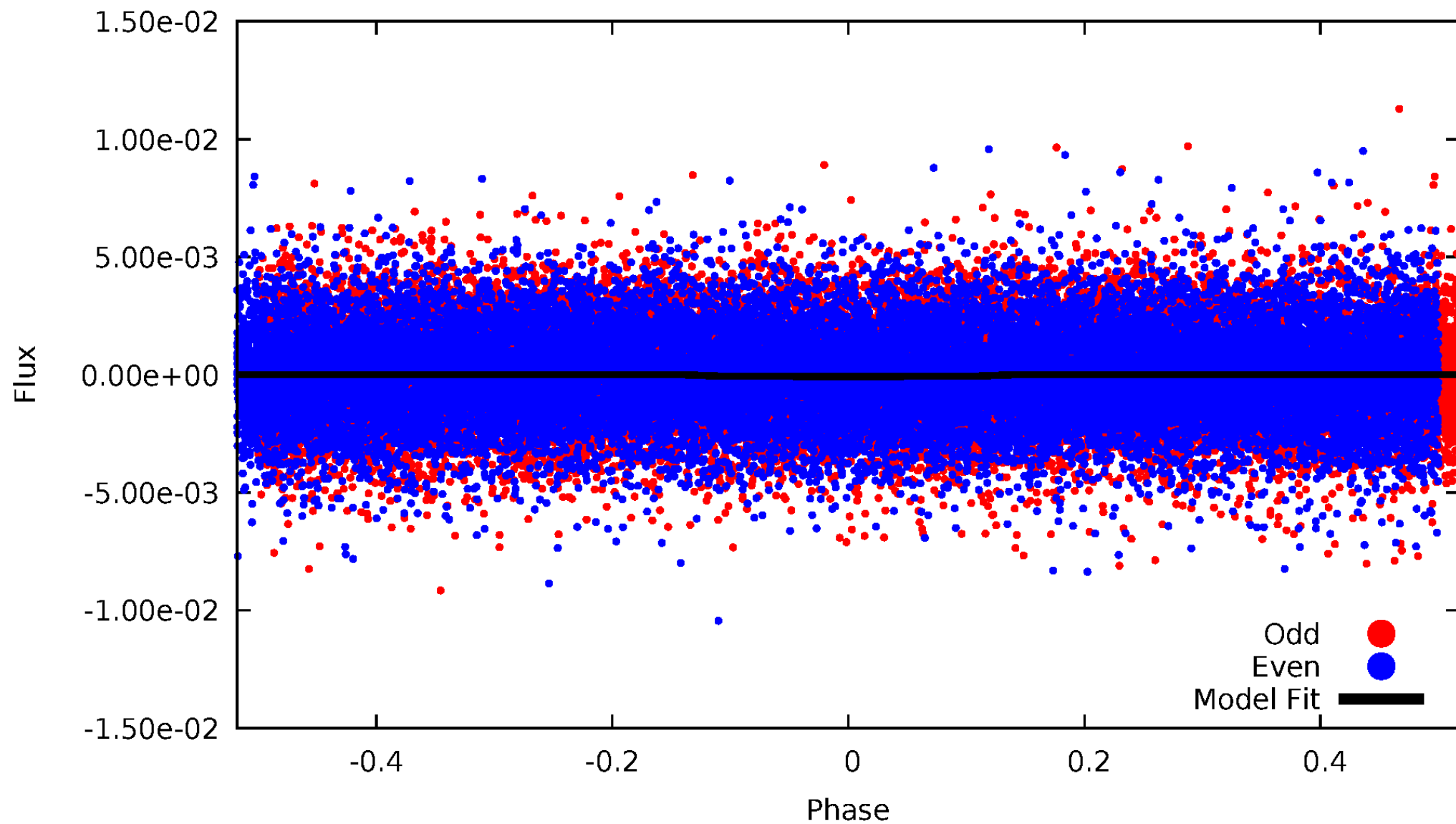


TCE 011395392-01



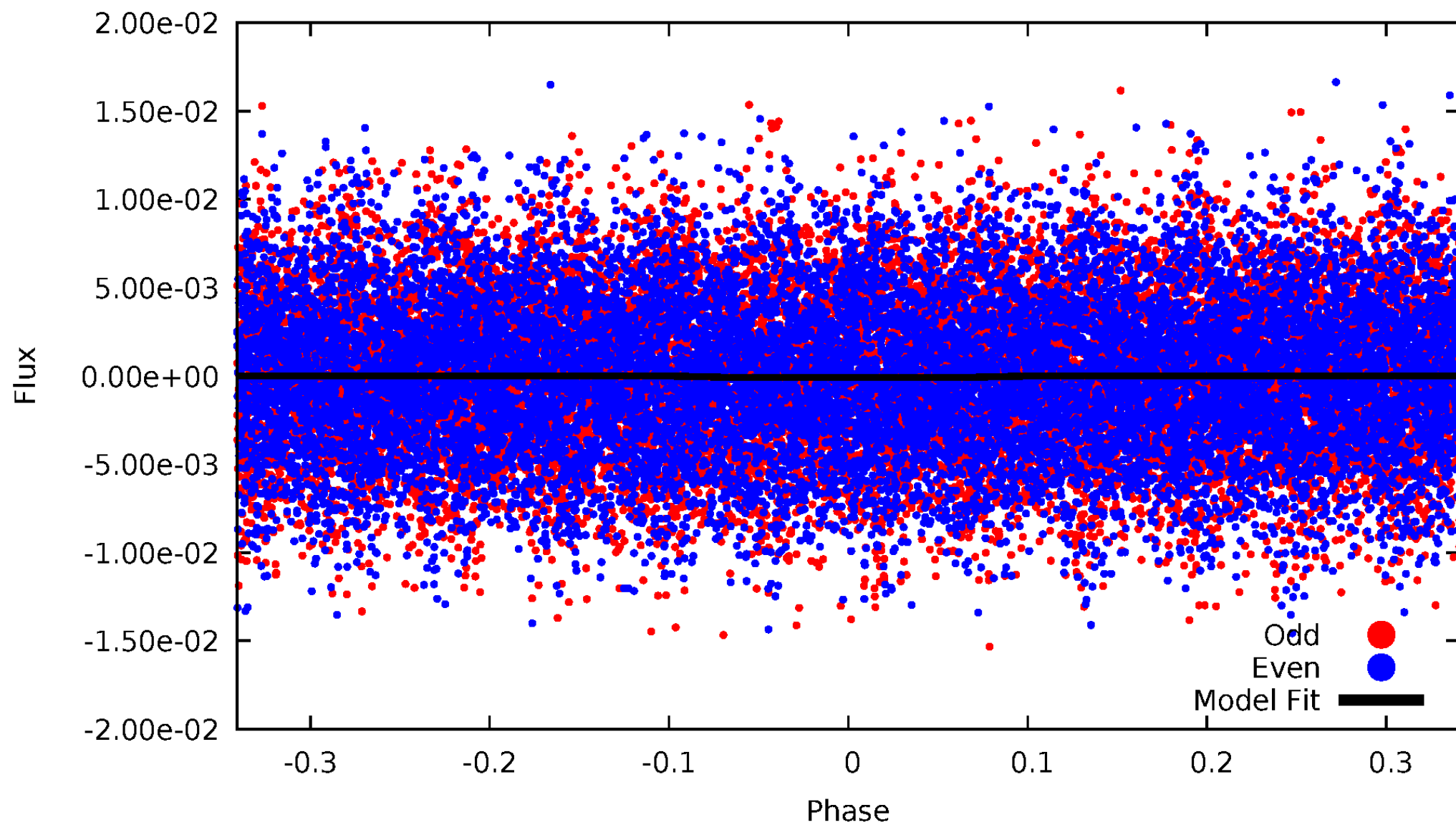
DV Odd/Even

TCE 011395392-01



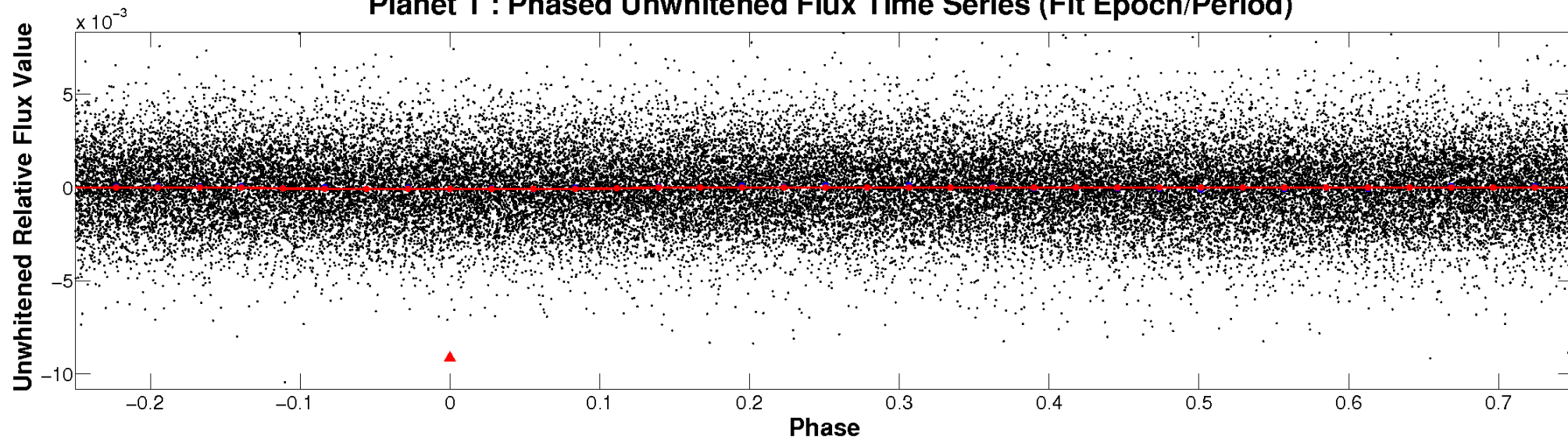
ALT Odd/Even

TCE 011395392-01

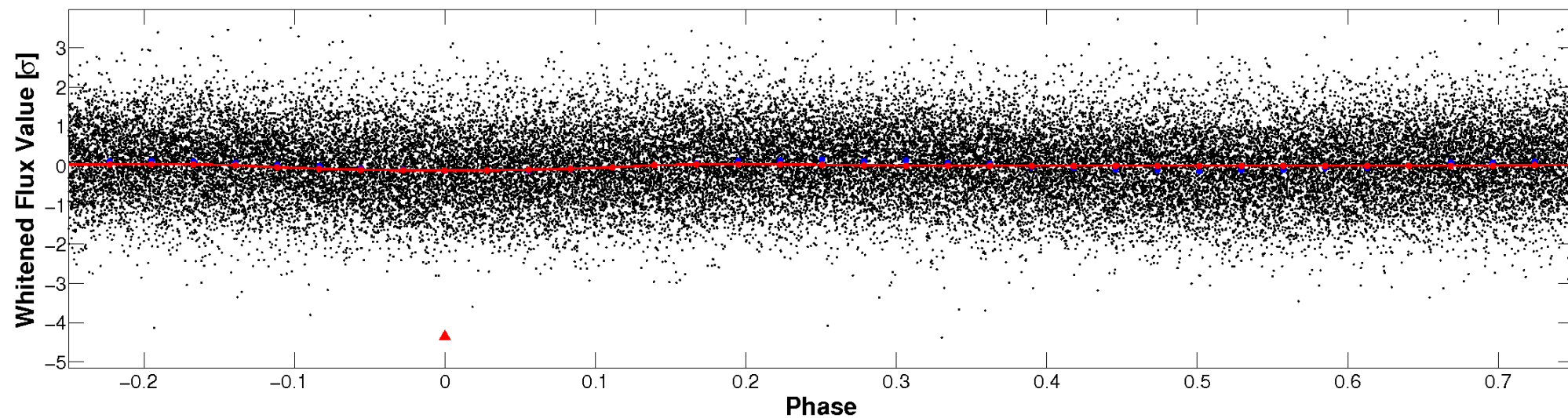


Non-Whitened Vs. Whitened Light Curve

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

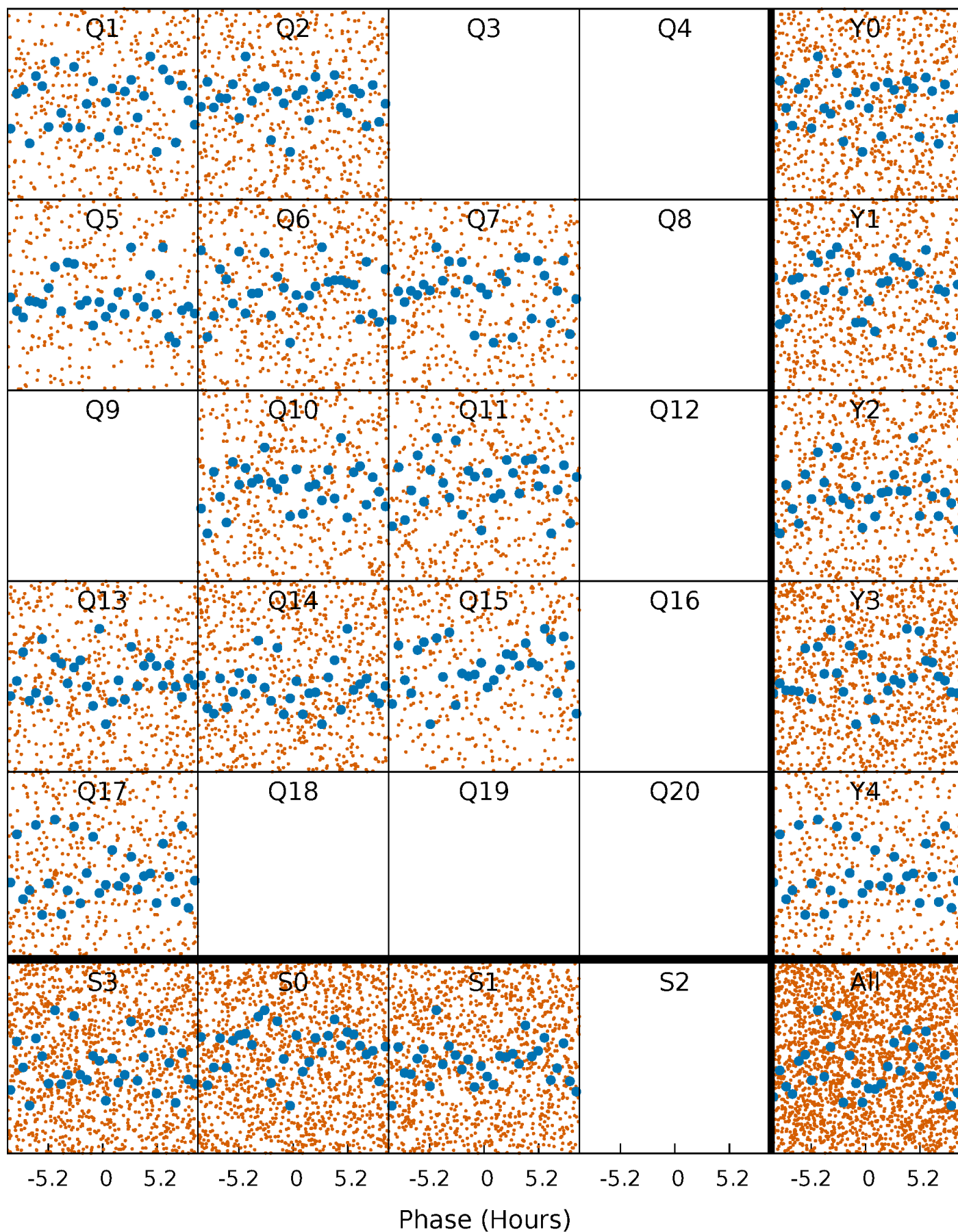


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



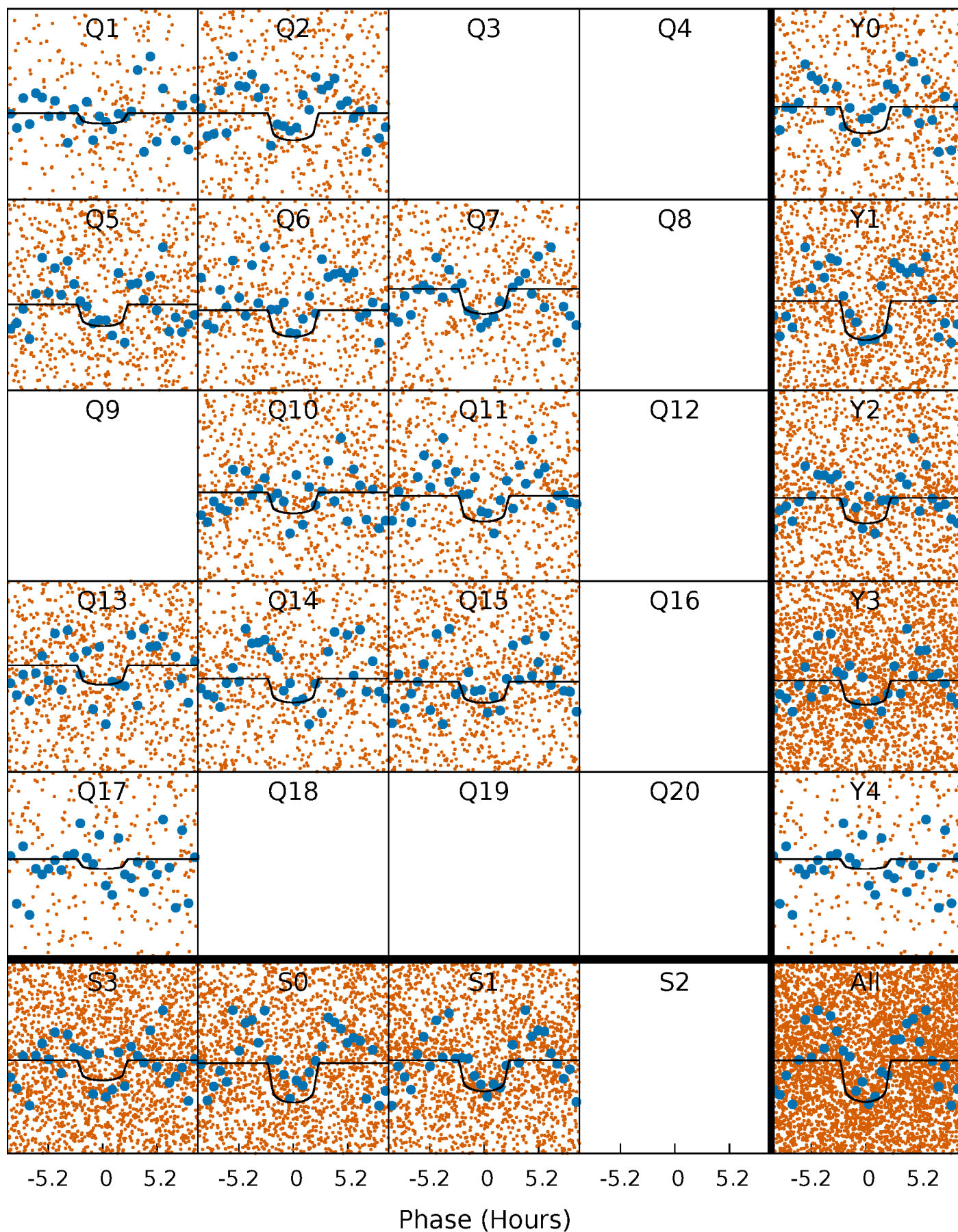
PDC Quarter-Phased Transit Curves

TCE 011395392-01 P= 0.733543 Days $T_0=131.747033$ (BKJD)



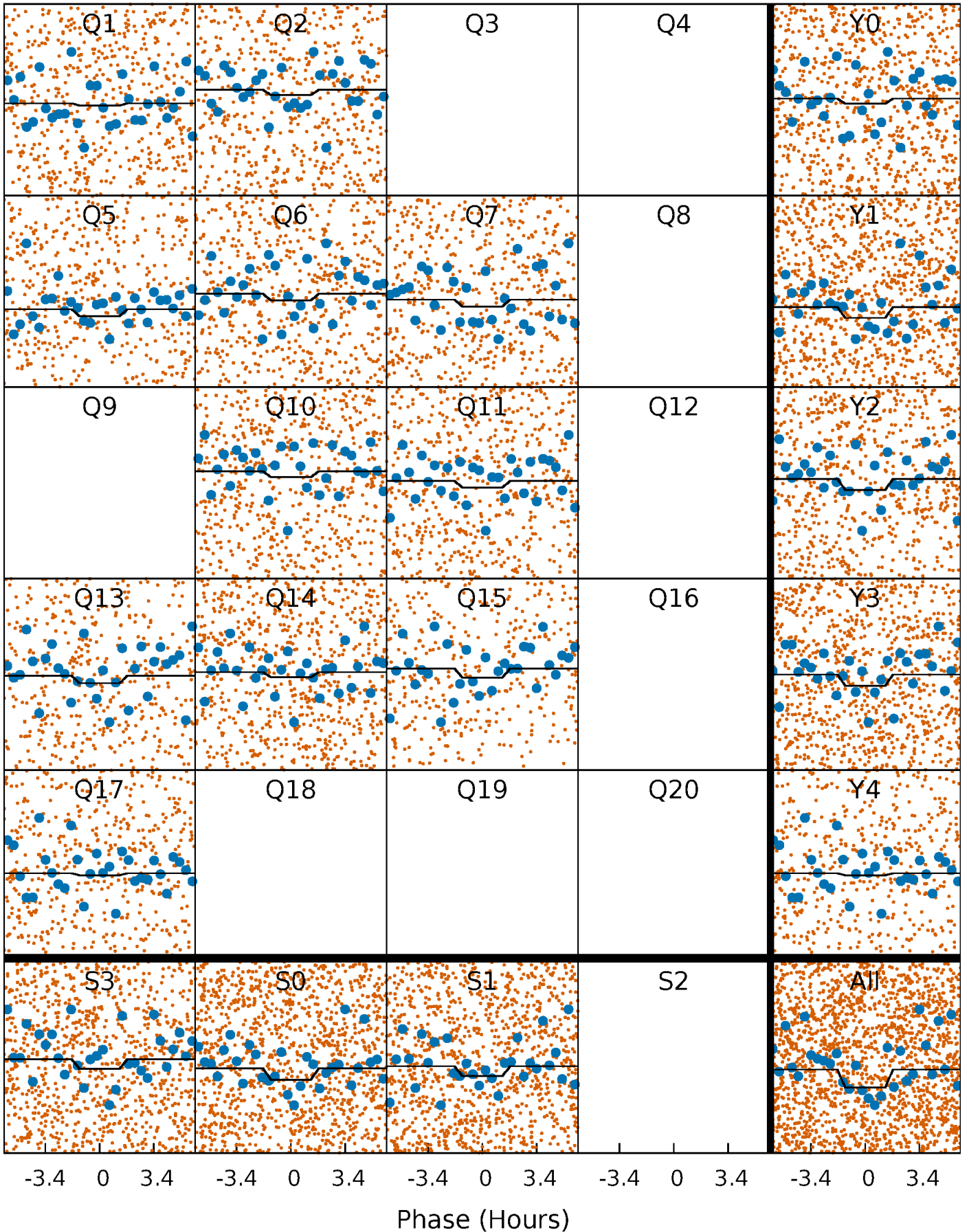
DV Quarter-Phased Transit Curves

TCE 011395392-01 P= 0.733543 Days $T_0=131.747033$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

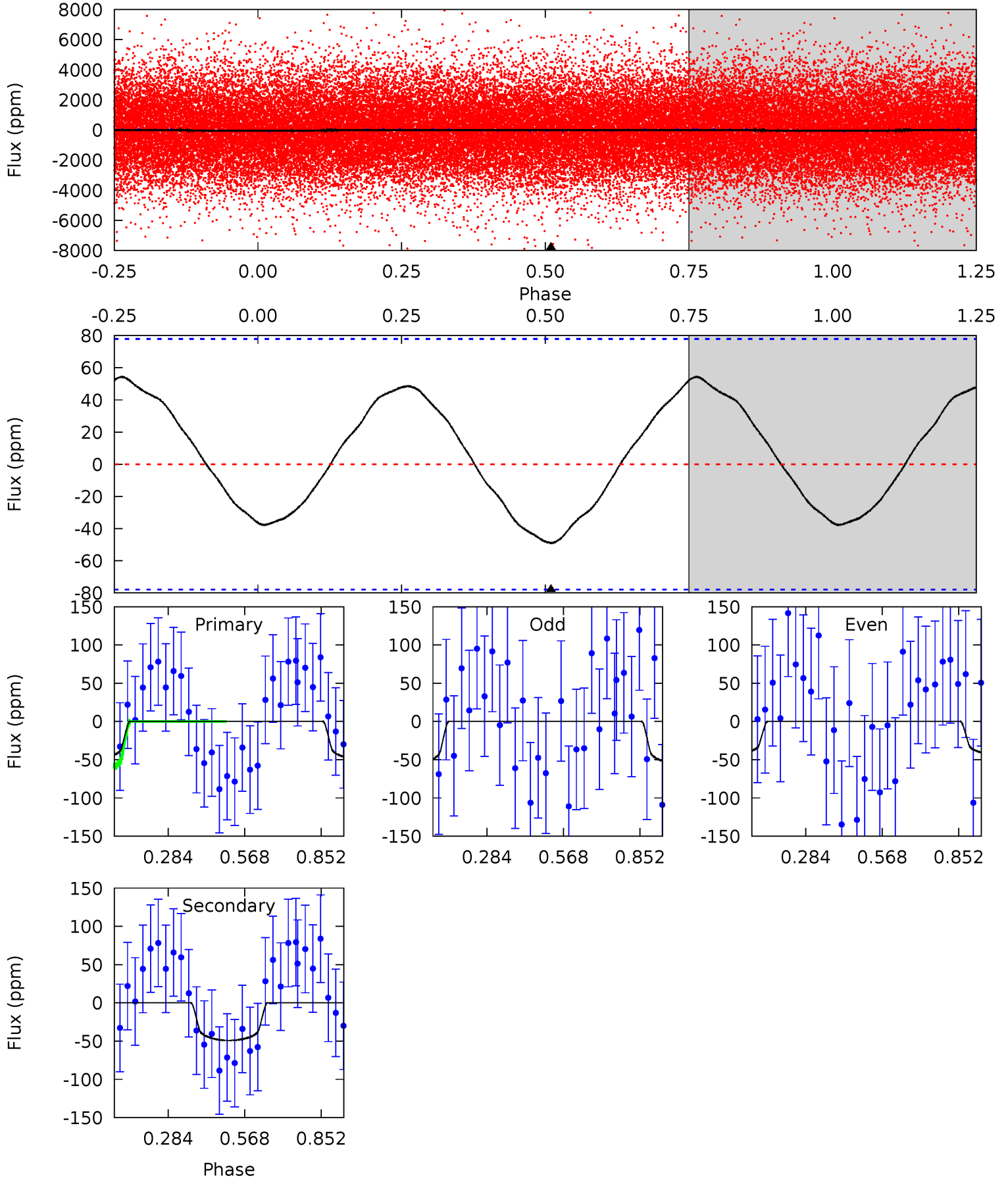
TCE 011395392-01 P= 0.733578 Days $T_0=131.711689$ (BKJD)



DV Model-Shift Uniqueness Test

011395392-01, P = 0.733543 Days, E = 131.013490 Days

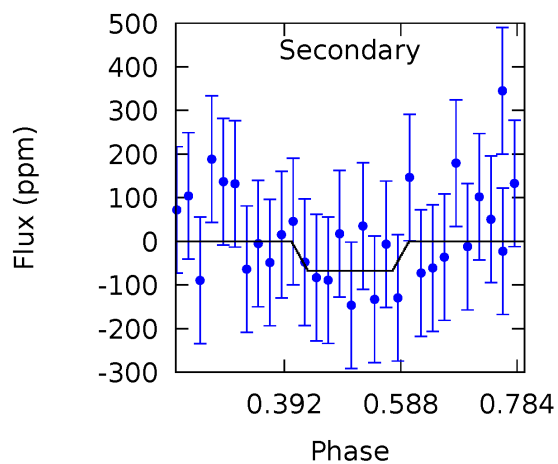
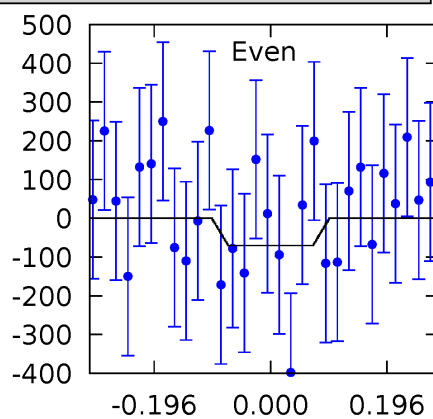
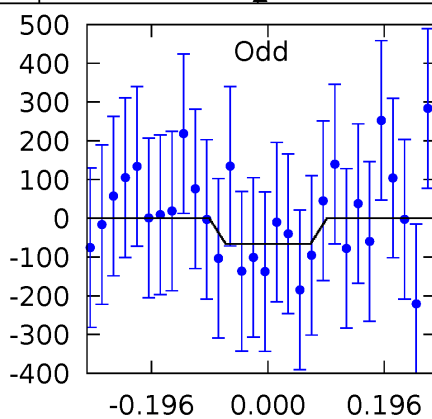
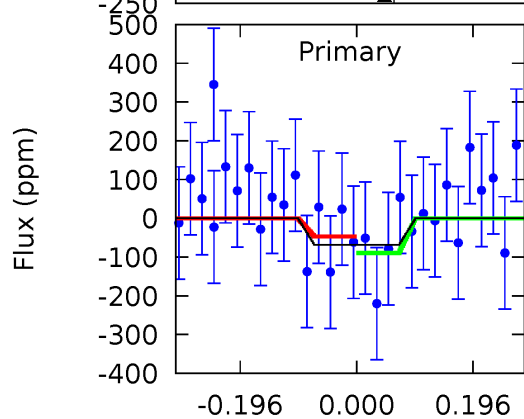
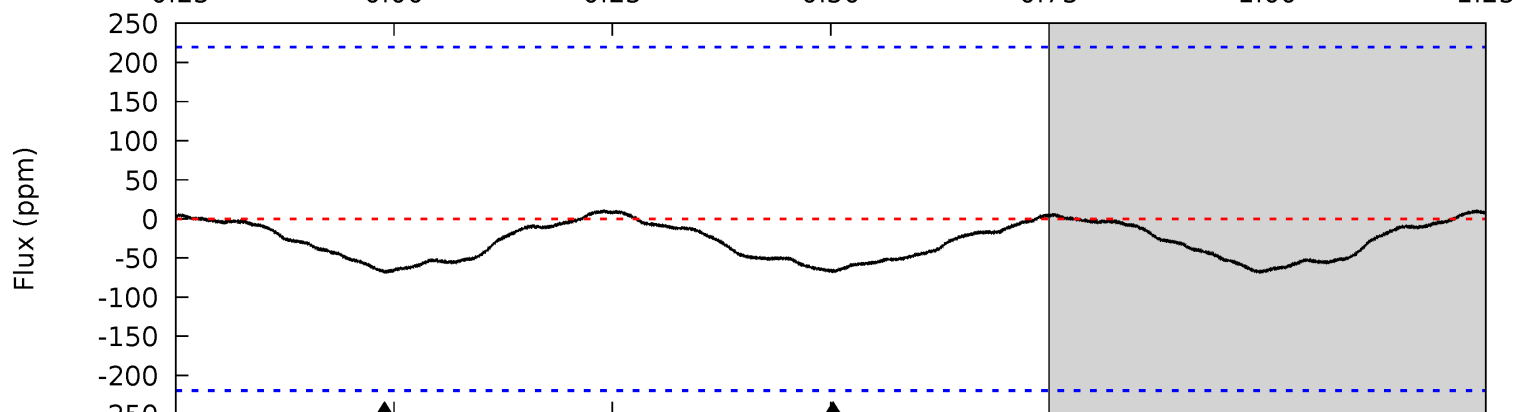
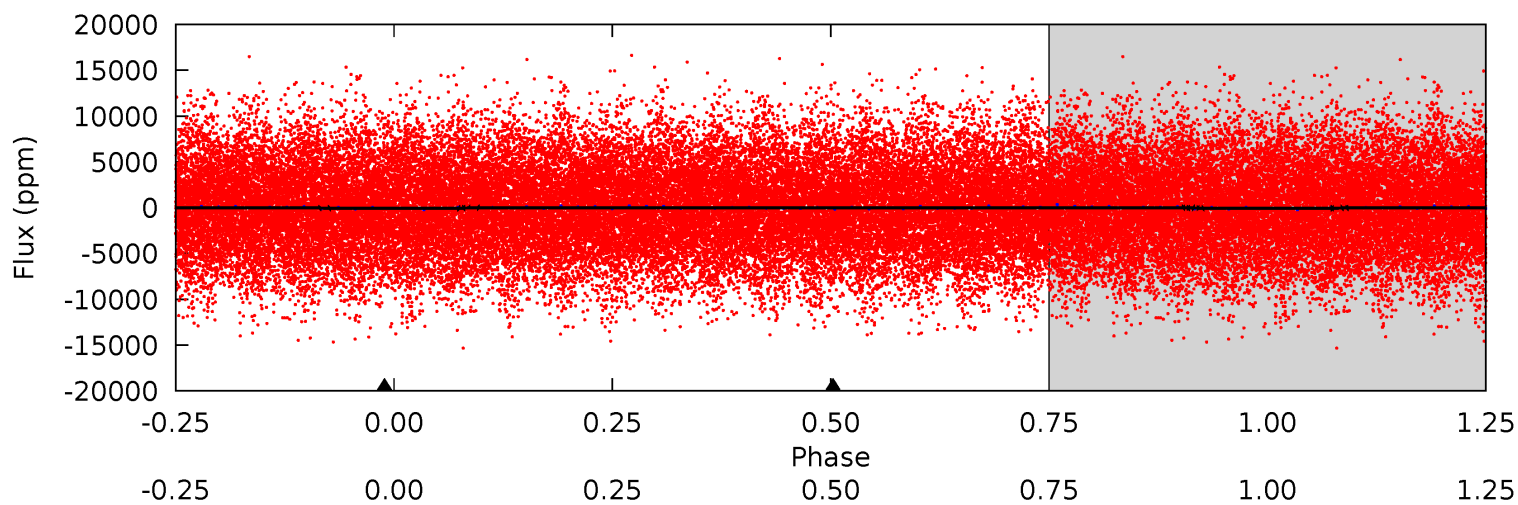
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.74	2.74	0	0	4.34	1.07	1.56	2.74	2.74	2.74	2.74	0.33	0.72	0.53	0.97



Alt Model-Shift Uniqueness Test

011395392-01, P = 0.733578 Days, E = 130.978111 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.38	1.36	0	0	4.42	1.29	0.12	1.38	1.38	1.36	1.36	0.04	1.27	0.13	0.44



Stellar Parameters For KIC 011395392

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6948^{+194}_{-333}	$4.295^{+0.058}_{-0.232}$	$0.070^{+0.200}_{-0.350}$	$1.409^{+0.537}_{-0.179}$	$1.428^{+0.216}_{-0.216}$	$0.719^{+0.235}_{-0.408}$
	+3%/-5%	+1%/-5%	+286%/-500%	+38%/-13%	+15%/-15%	+33%/-57%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 011395392-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-49 ± 18	$2.05^{+1.97}_{-1.33}$	3877^{+325}_{-240}	4895^{+4064}_{-1488}	$1.890^{+13.766}_{-1.390}$
Alt.	-67 ± 50	$2.06^{+1.74}_{-1.37}$	3870^{+317}_{-239}	5071^{+4584}_{-7739}	$2.294^{+17.621}_{-2.028}$

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 $A_{obs} \gg 1.0$

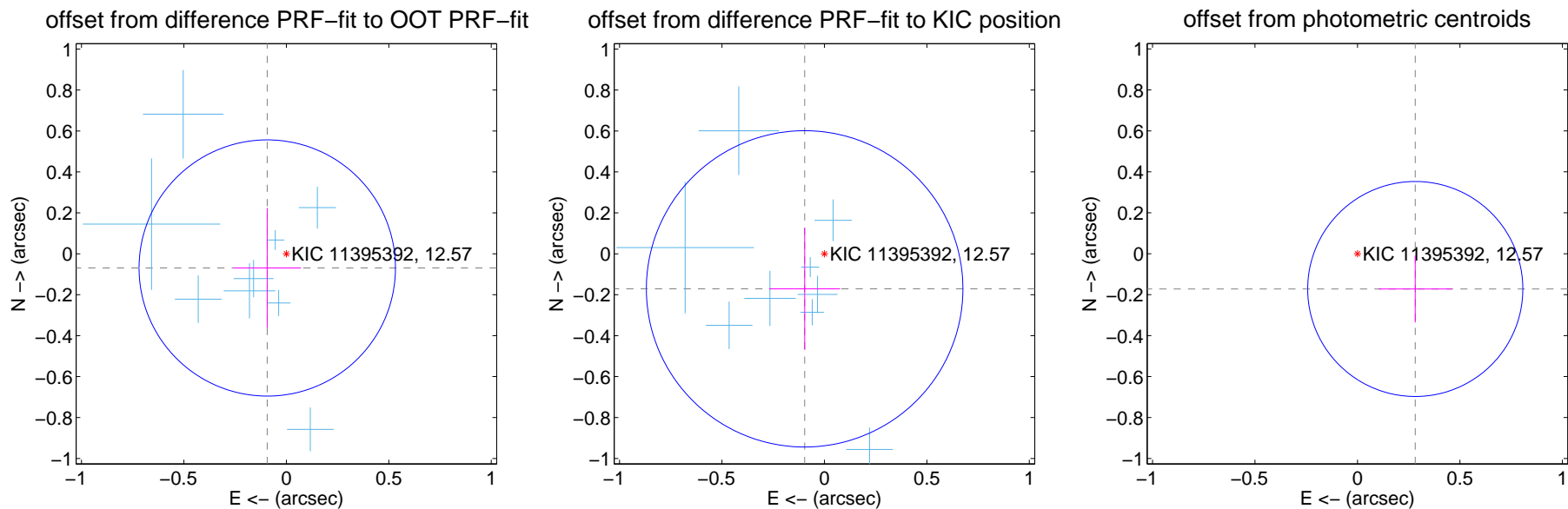
DV Centroid Data

Supplemental centroid analysis for 011395392-01. Kepler magnitude: 12.57. Transit SNR 9.78

There are 10 quarters with good PRF difference image offsets

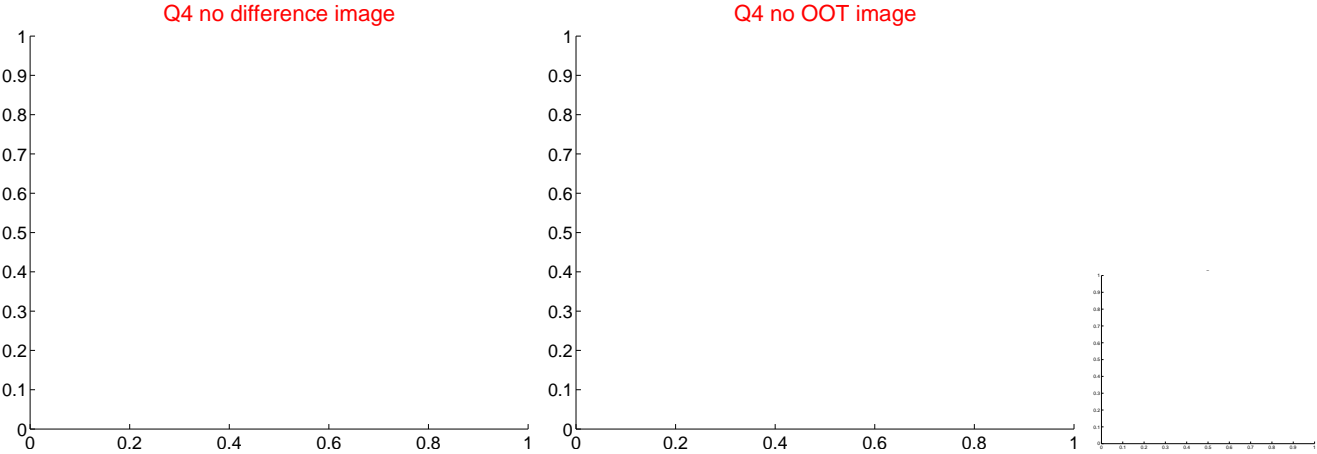
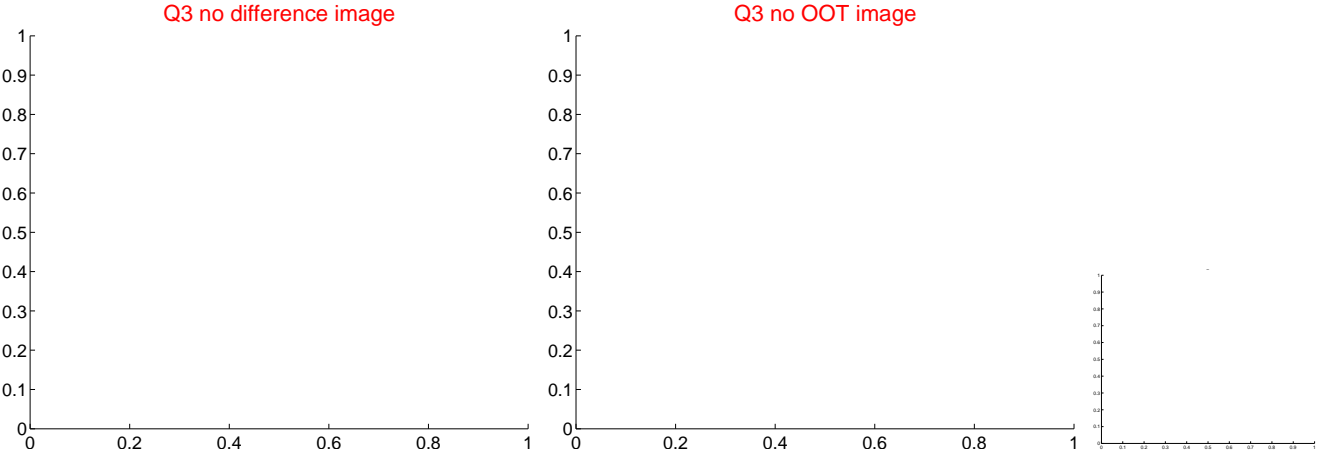
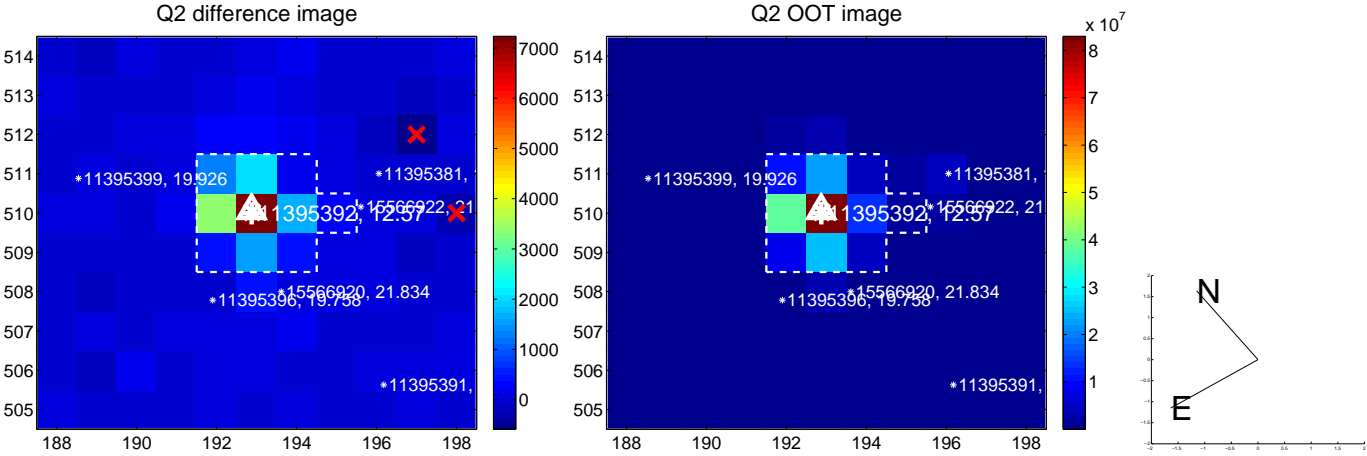
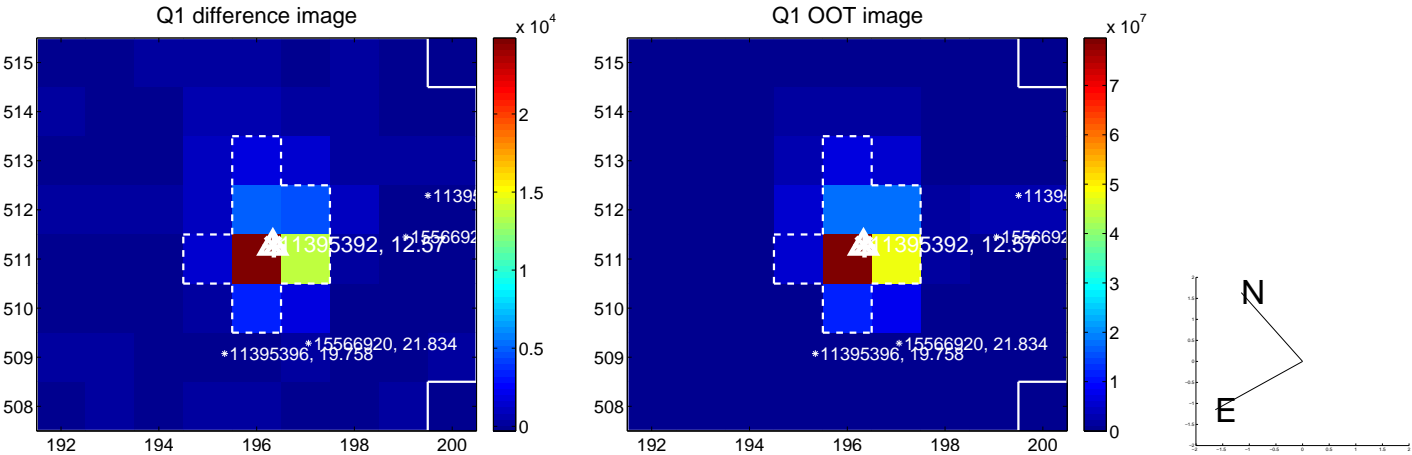
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.116 ± 0.209	0.56	0.093 ± 0.164	-0.069 ± 0.293
PRF-fit source offset from KIC position	0.197 ± 0.258	0.76	0.097 ± 0.173	-0.171 ± 0.297
photometric centroid source offset	0.33 ± 0.17	1.89	-0.28 ± 0.18	-0.17 ± 0.16

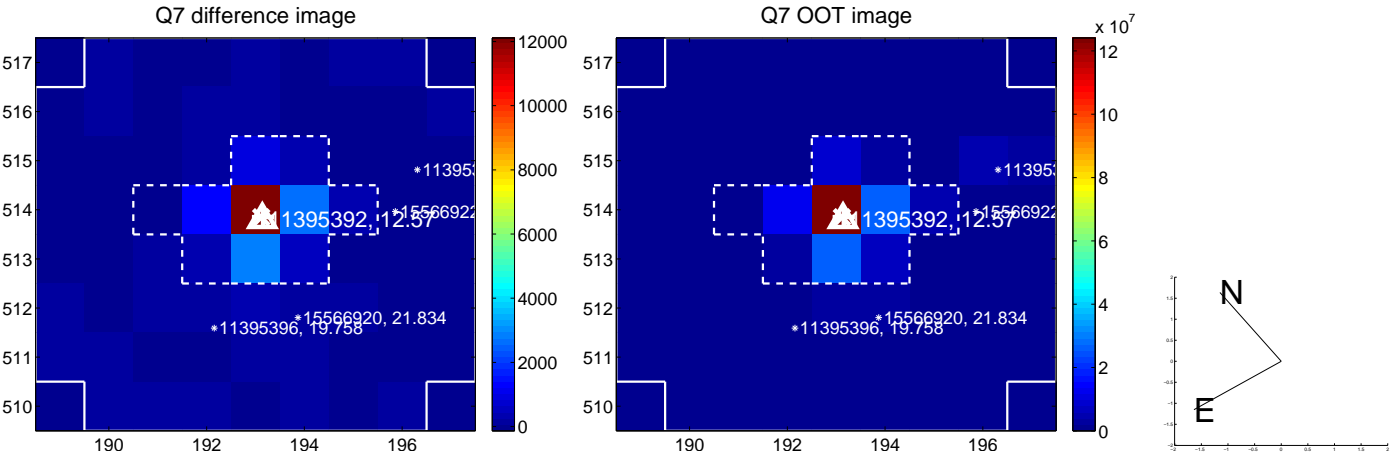
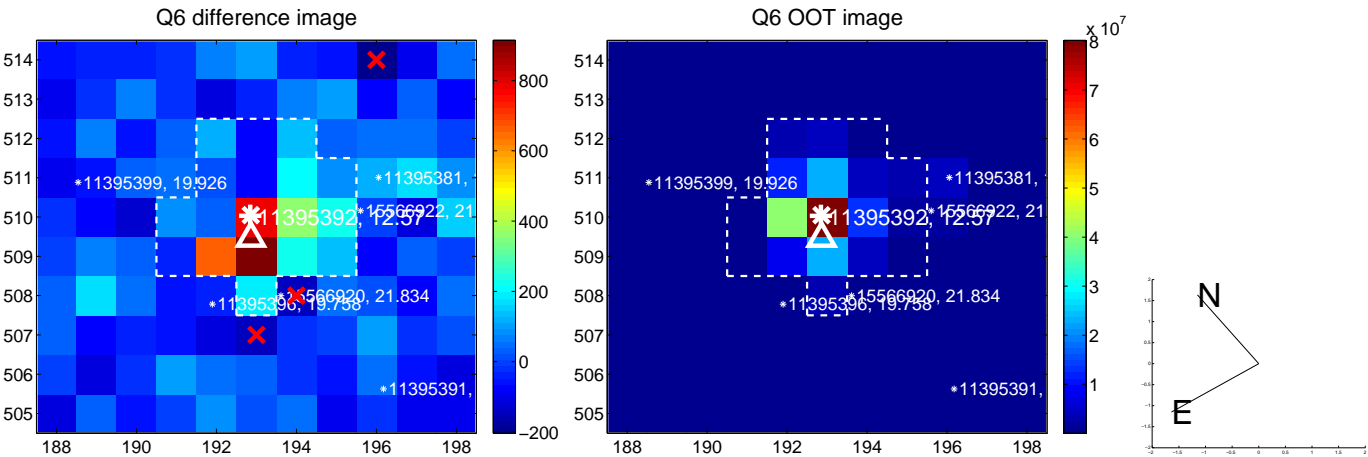
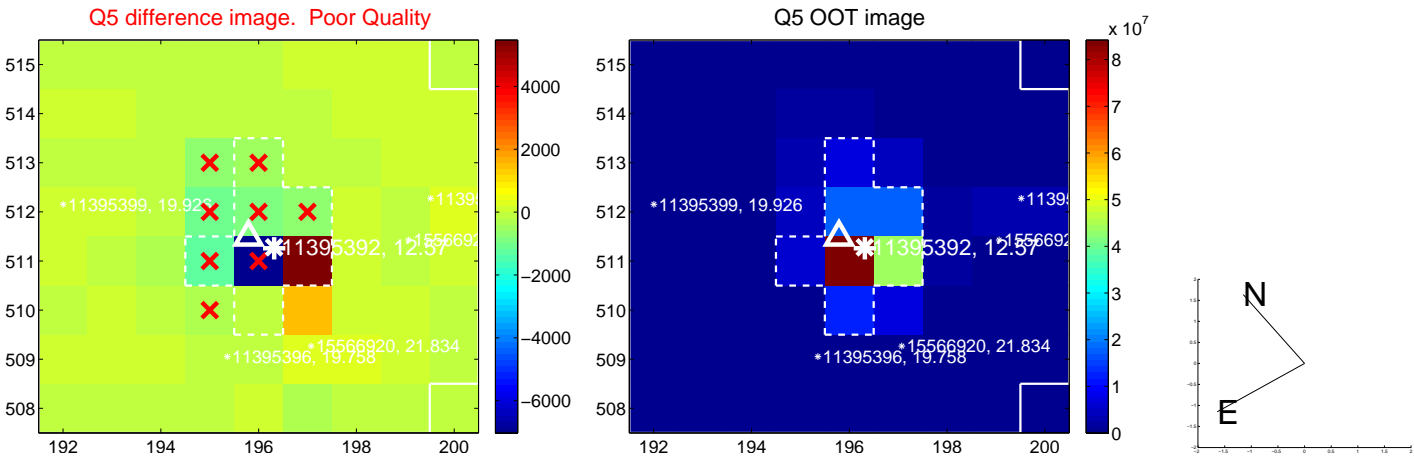


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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



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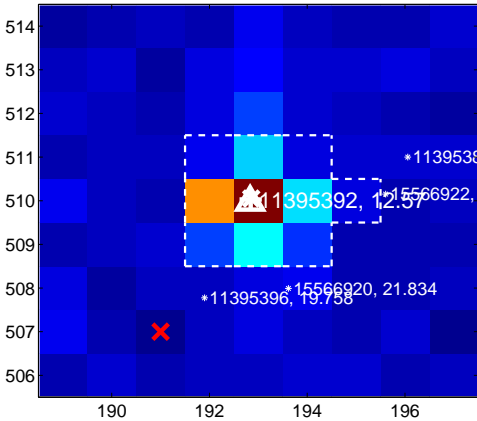
Q9 no difference image



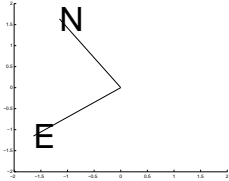
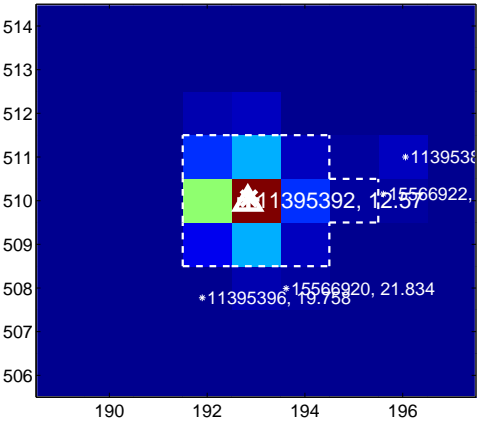
Q9 no OOT image



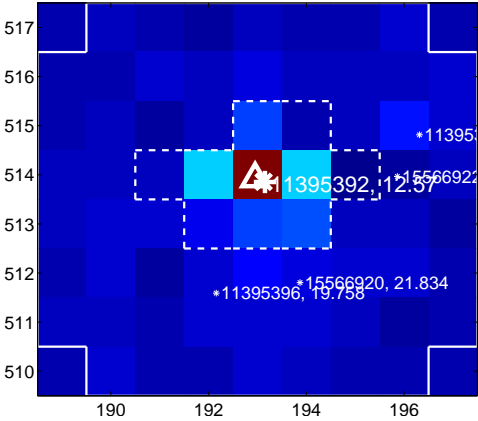
Q10 difference image



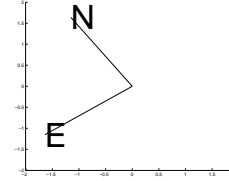
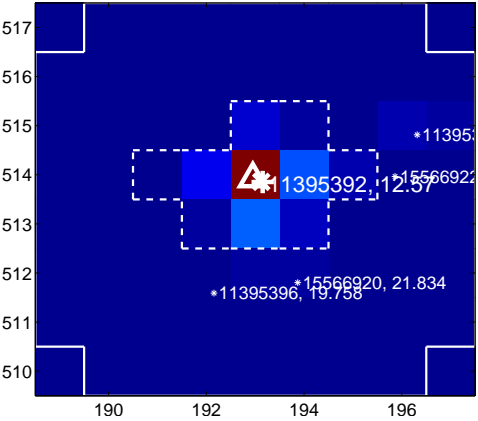
Q10 OOT image



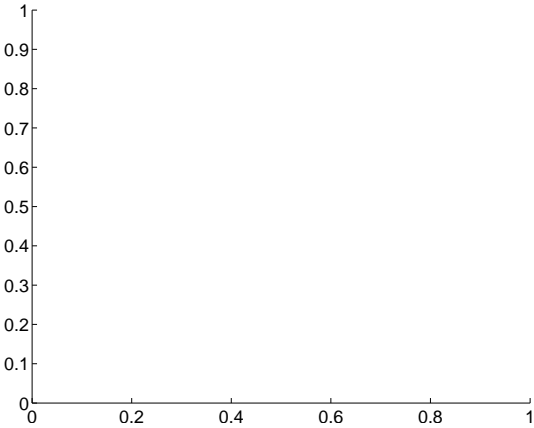
Q11 difference image



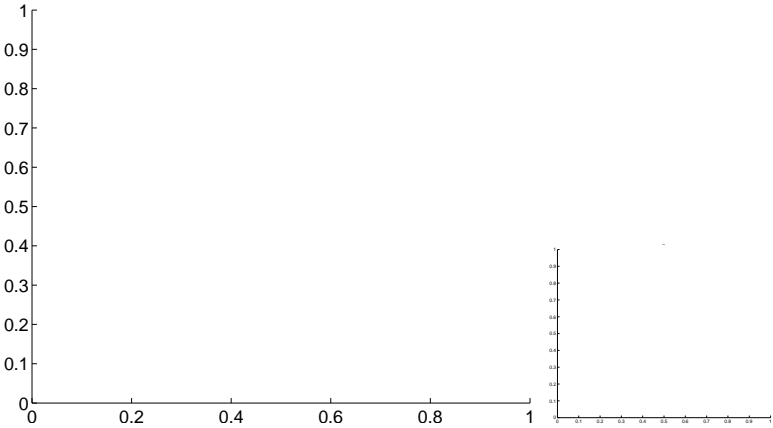
Q11 OOT image



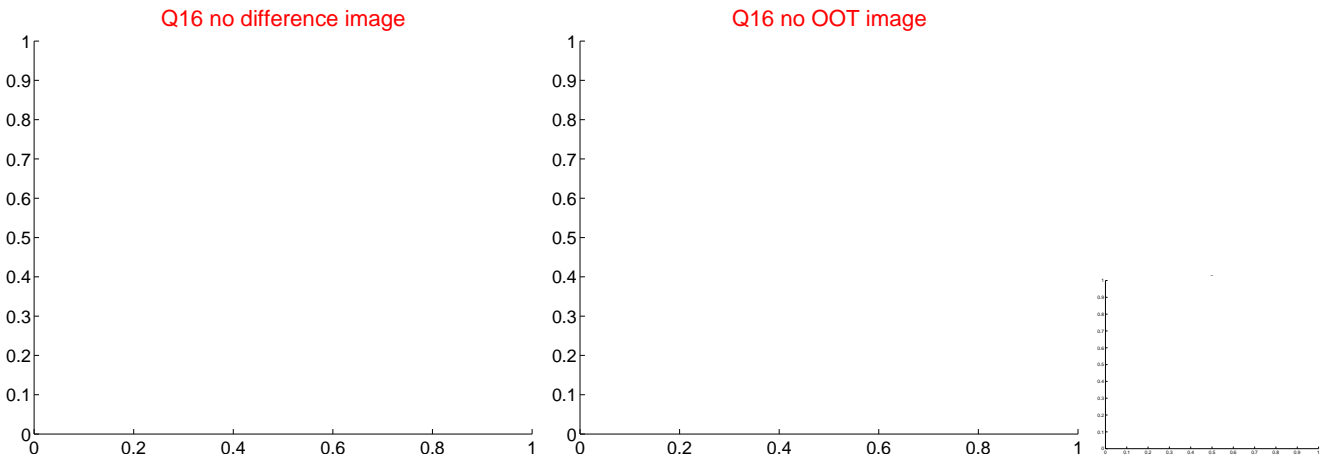
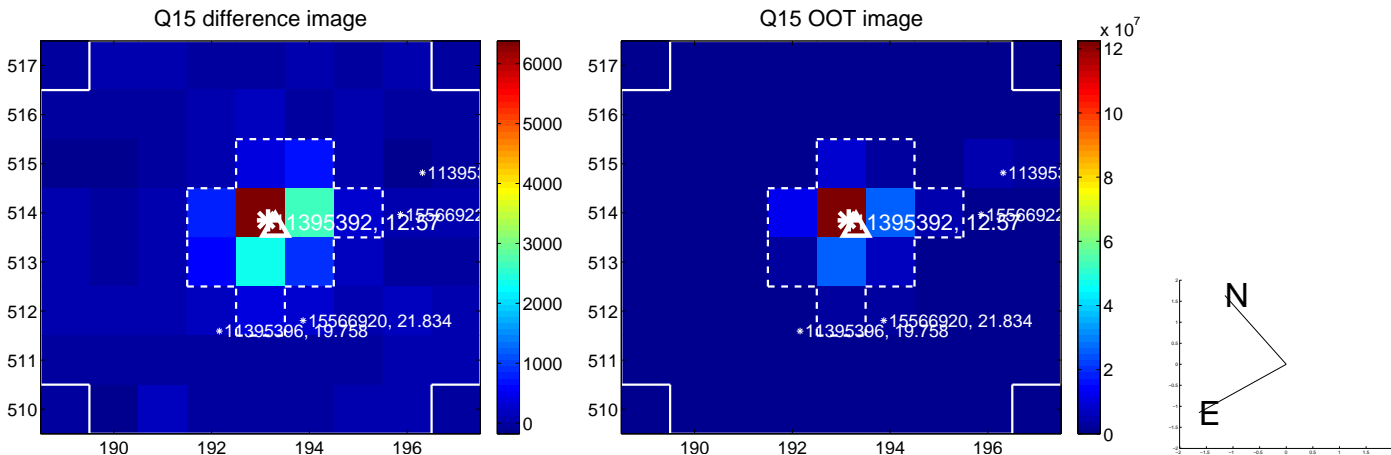
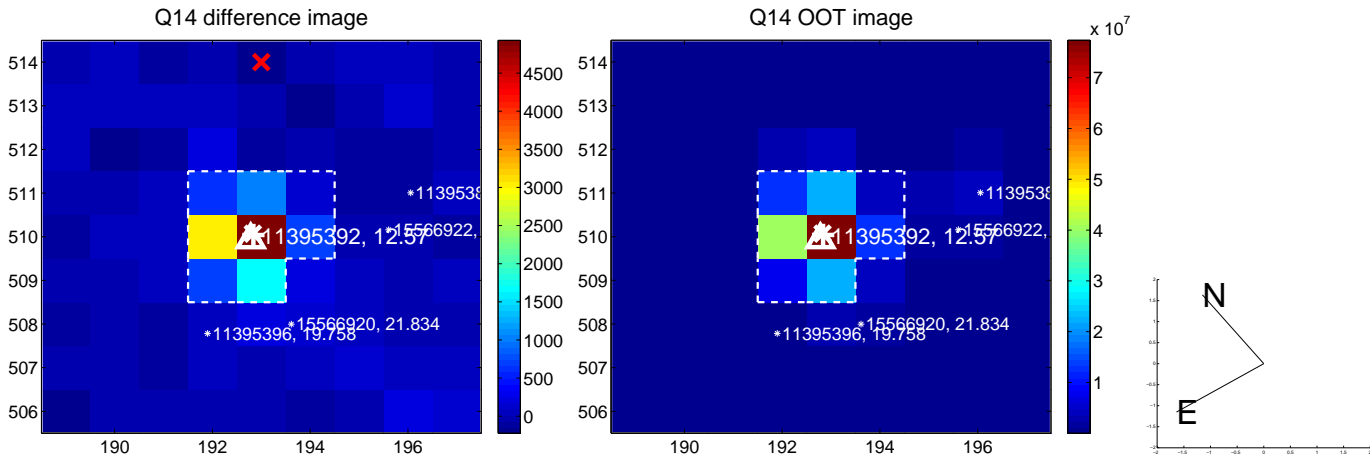
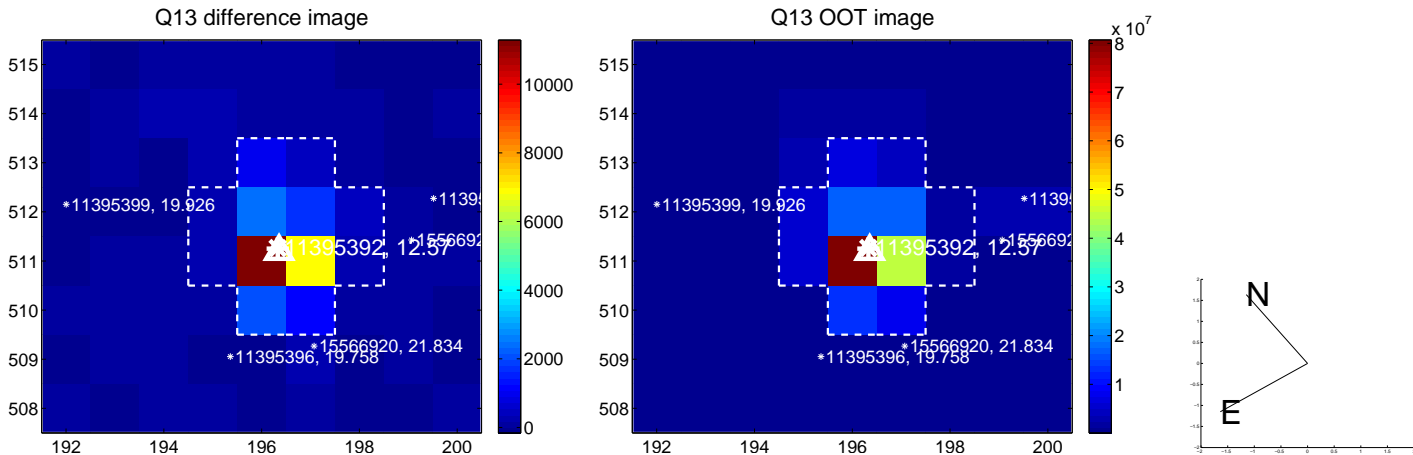
Q12 no difference image



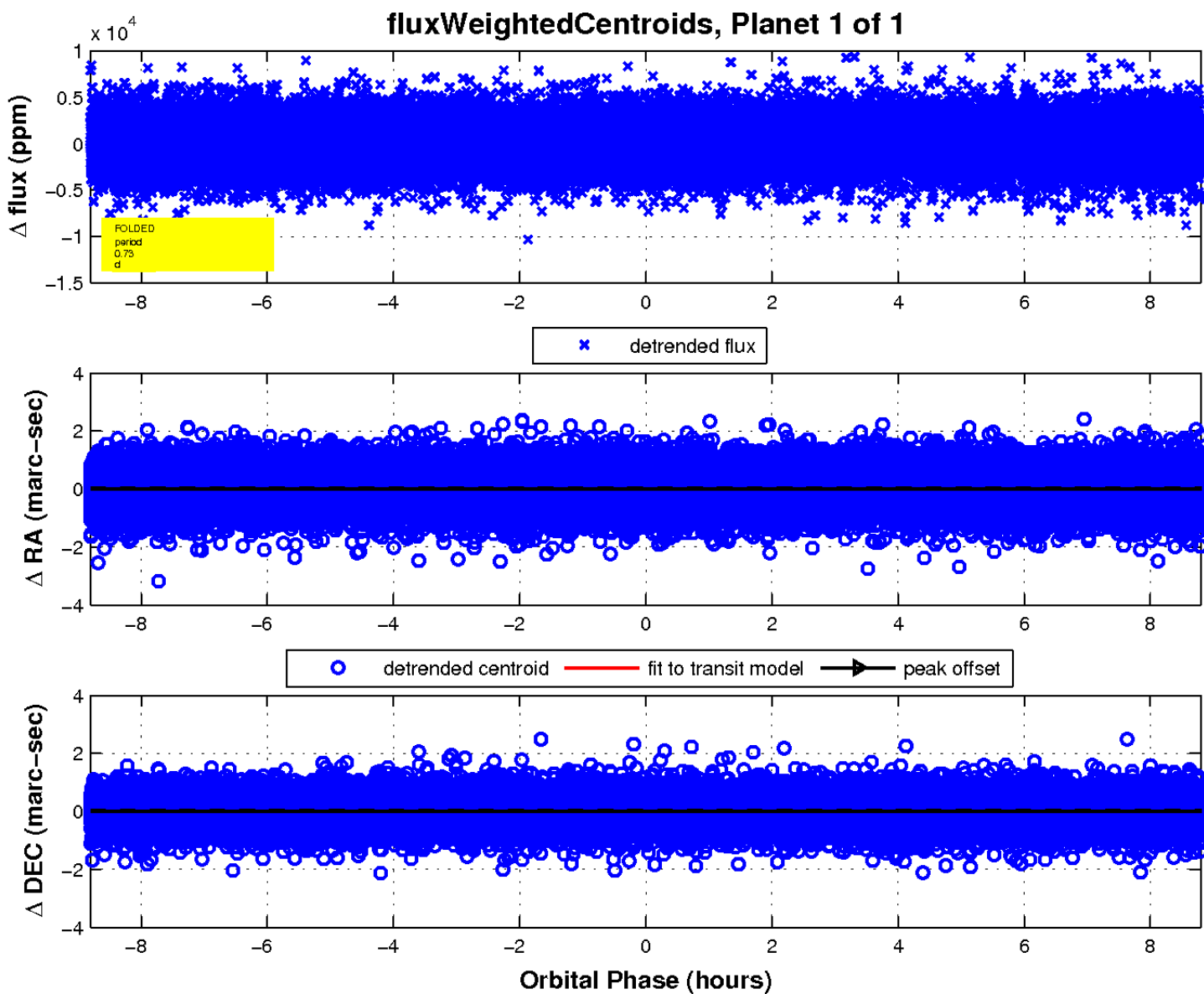
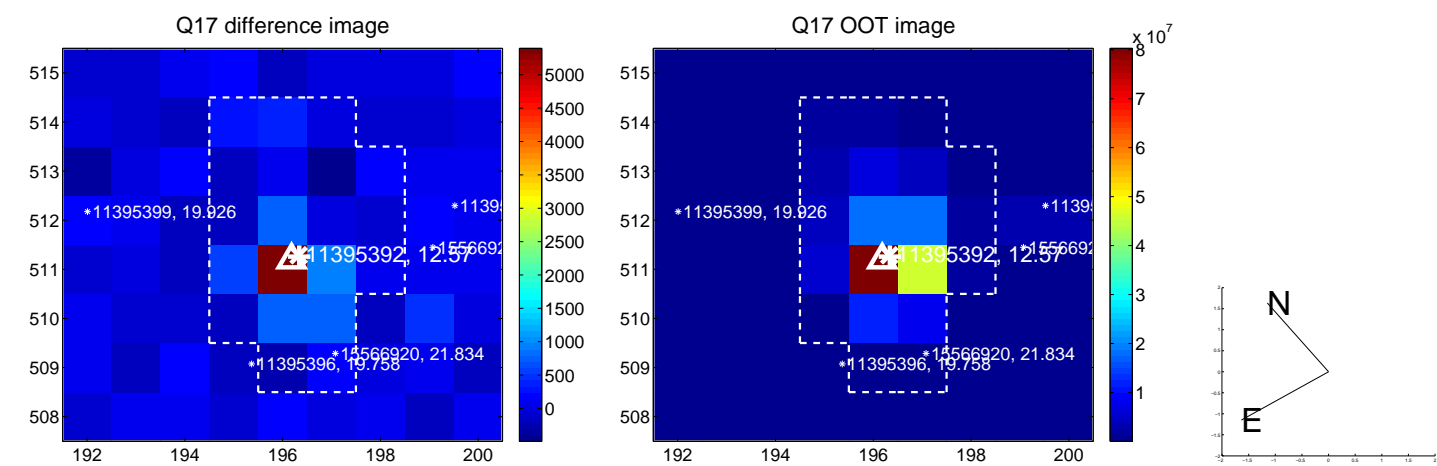
Q12 no OOT image



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

