

KIC 003343866

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})
003343866-01	OBS	6328.01	0.555973	131.964877	51.9	1.411	12.9	16.4	2.12	5445	1.83	20478.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003343866-01	OBS	FP	0.00	0	0	1	0	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.

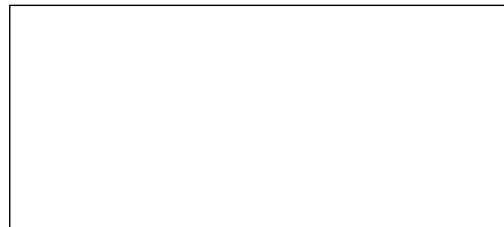
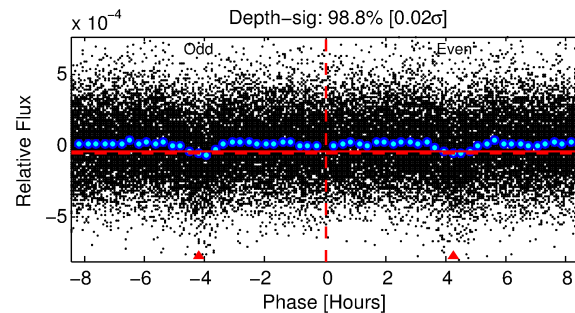
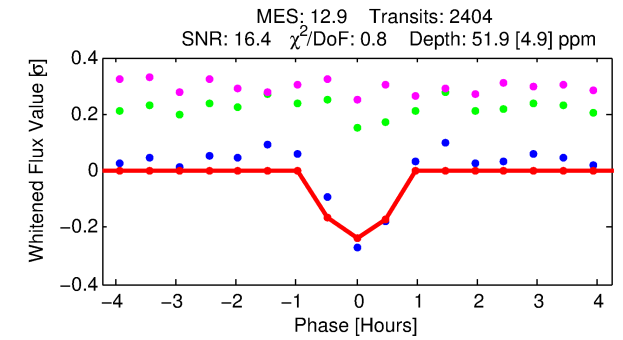
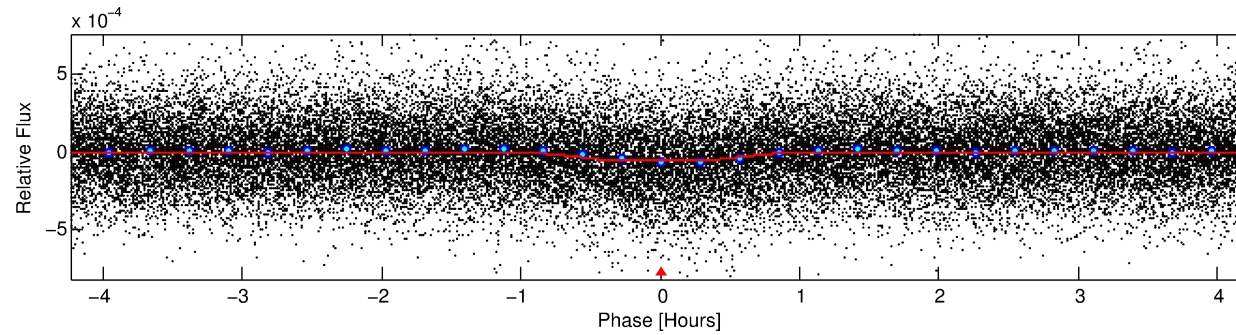
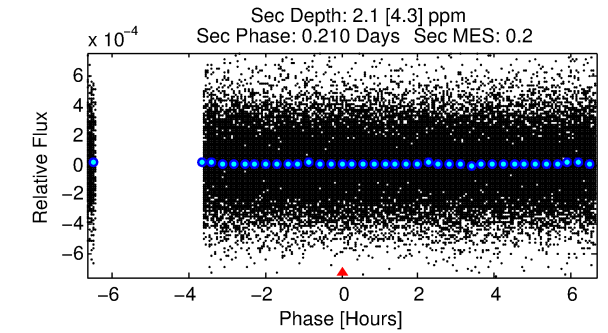
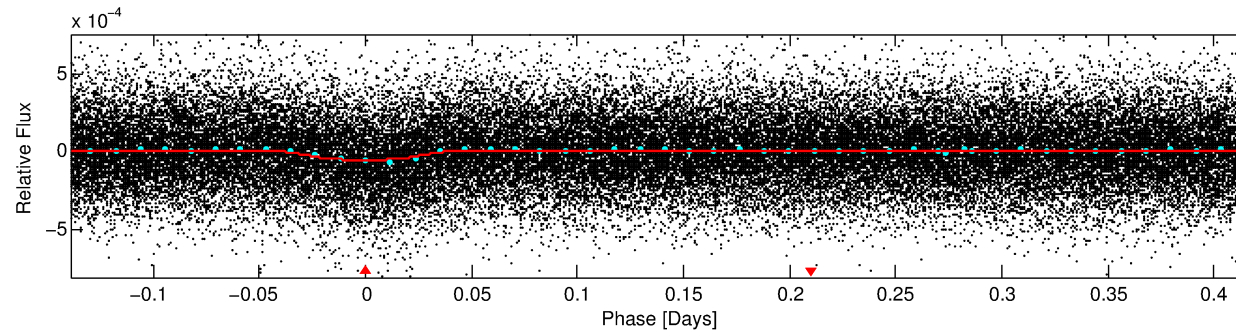
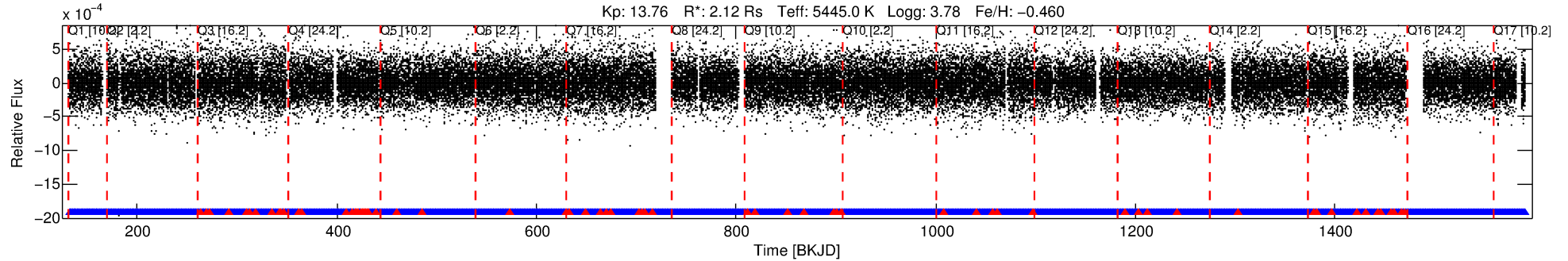
Ephemeris Match Information For 003343866-01

No Significant Match Found

DV One-Page Summary

KIC: 3343866 Candidate: 1 of 1 Period: 0.556 d
KOI: K06328.01 Corr: 0.935

Kp: 13.76 R*: 2.12 Rs Teff: 5445.0 K Logg: 3.78 Fe/H: -0.460



DV Fit Results:

Period = 0.55597 [0.00001] d
Epoch = 131.9649 [0.0013] BKJD
Rp/R* = 0.0079 [0.0035]
a/R* = 1.64 [2.15]
b = 0.90 [0.44]
Seff = 20478.37 [26287.11]
Teq = 3050 [979] K
Rp = 1.83 [1.46] Re
a = 0.0131 [0.0098] AU
Ag = 0.06 [0.15] [-6.21σ]
Teffp = 2315 [1320] K [-0.45σ]

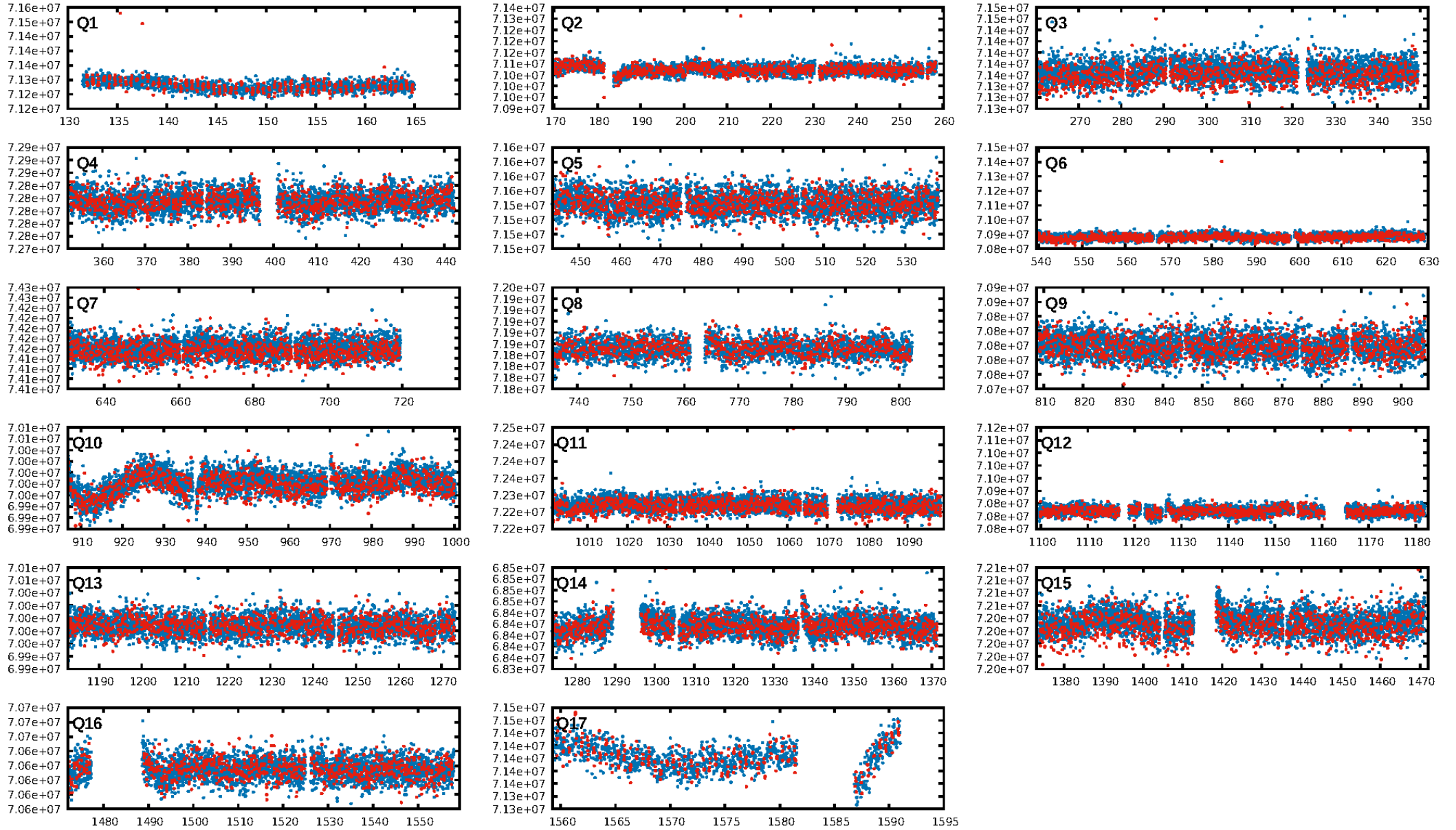
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.00e-35
RollingBand-fgt: 0.97 [2224/2296]
GhostDiagnostic-chr: -0.7132
Centroid-sig: 0.0%
Centroid-so: 13.794 arcsec [17.23σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

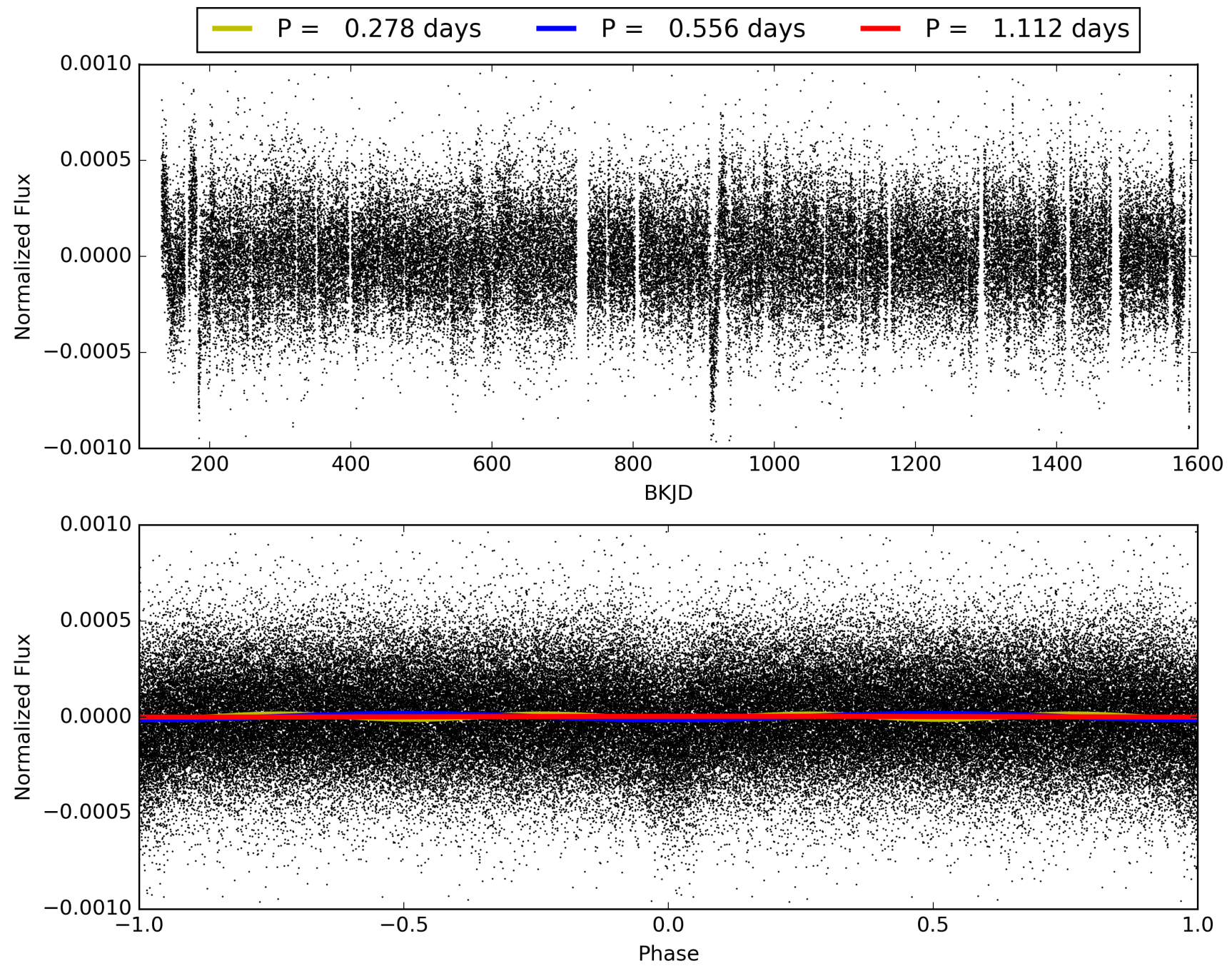
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 03:00:45 Z

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

TCE 003343866-01, PDC Light Curves

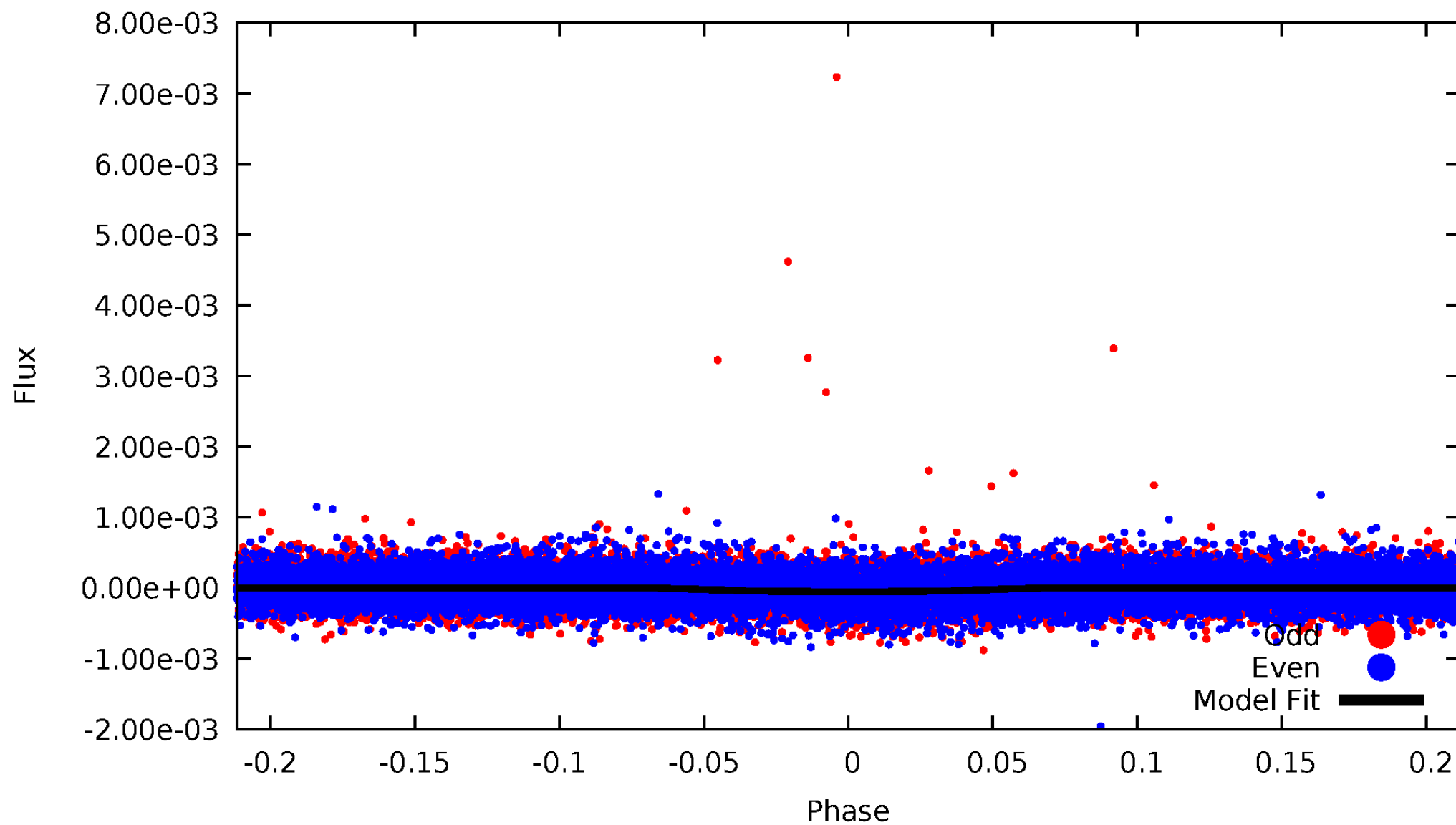


TCE 003343866-01



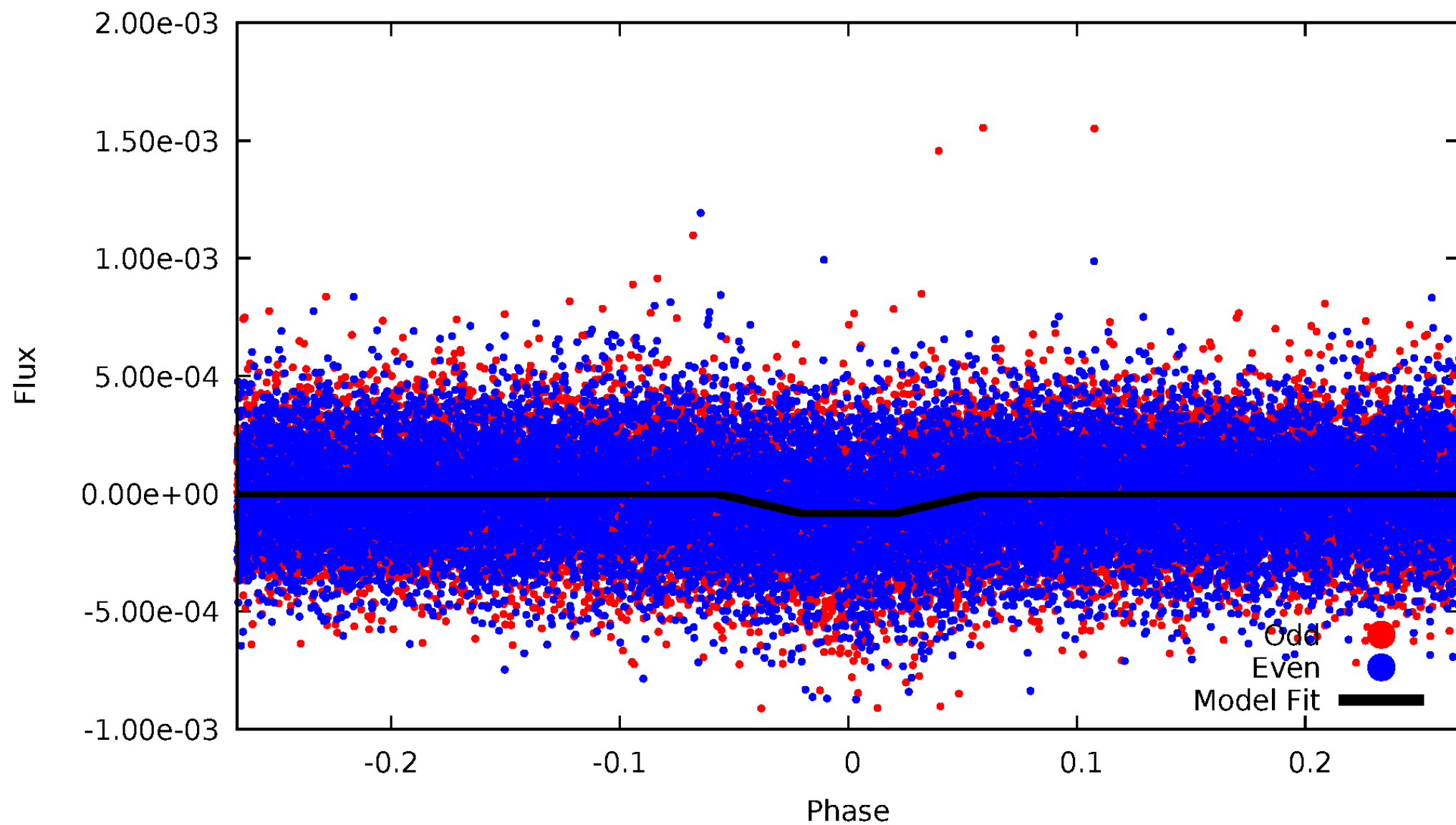
DV Odd/Even

TCE 003343866-01



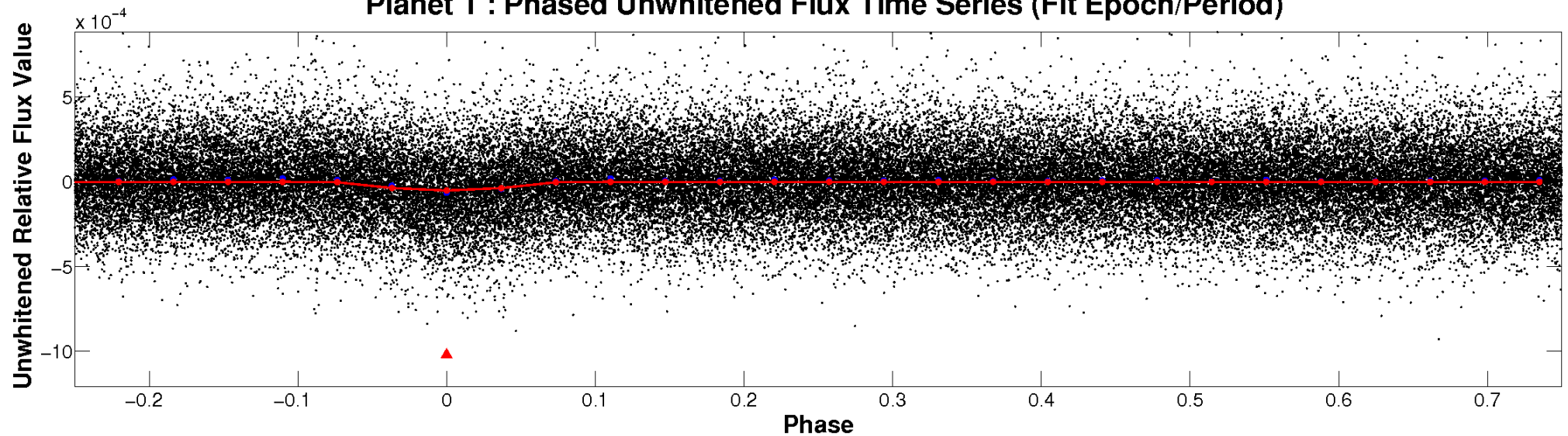
ALT Odd/Even

TCE 003343866-01

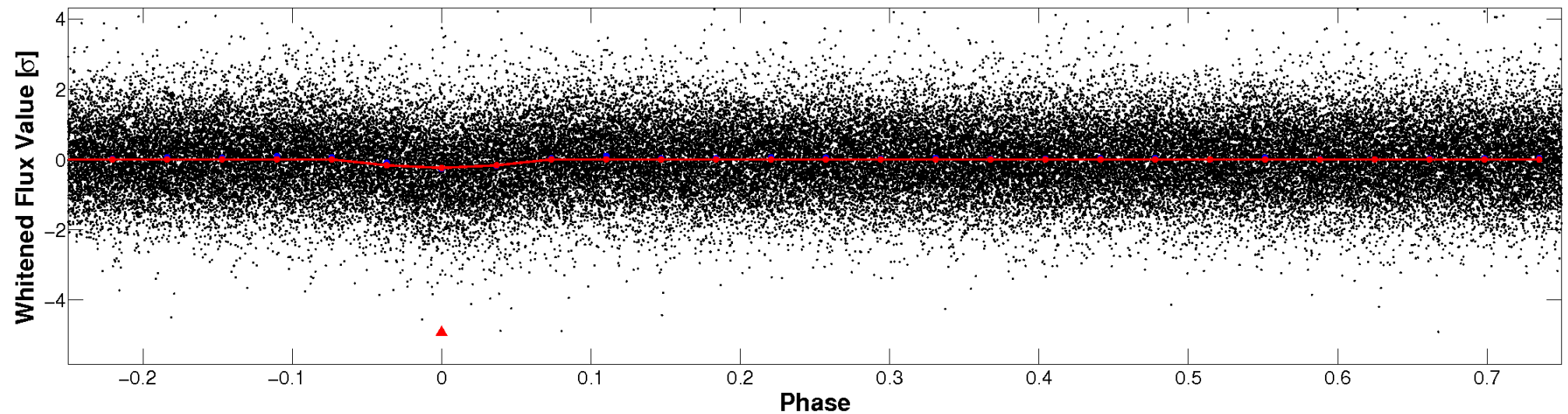


Non-Whitened Vs. Whitened Light Curve

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

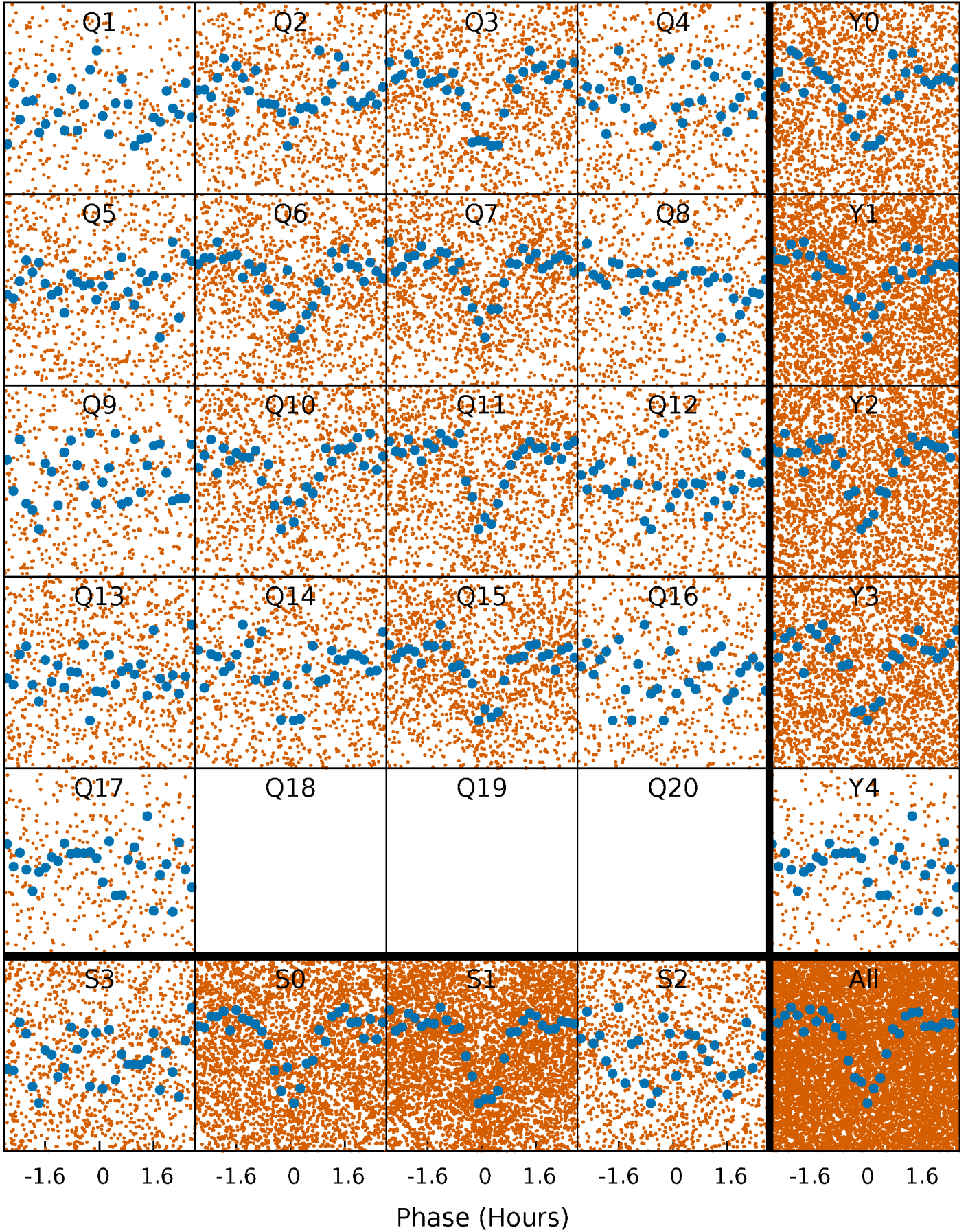


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



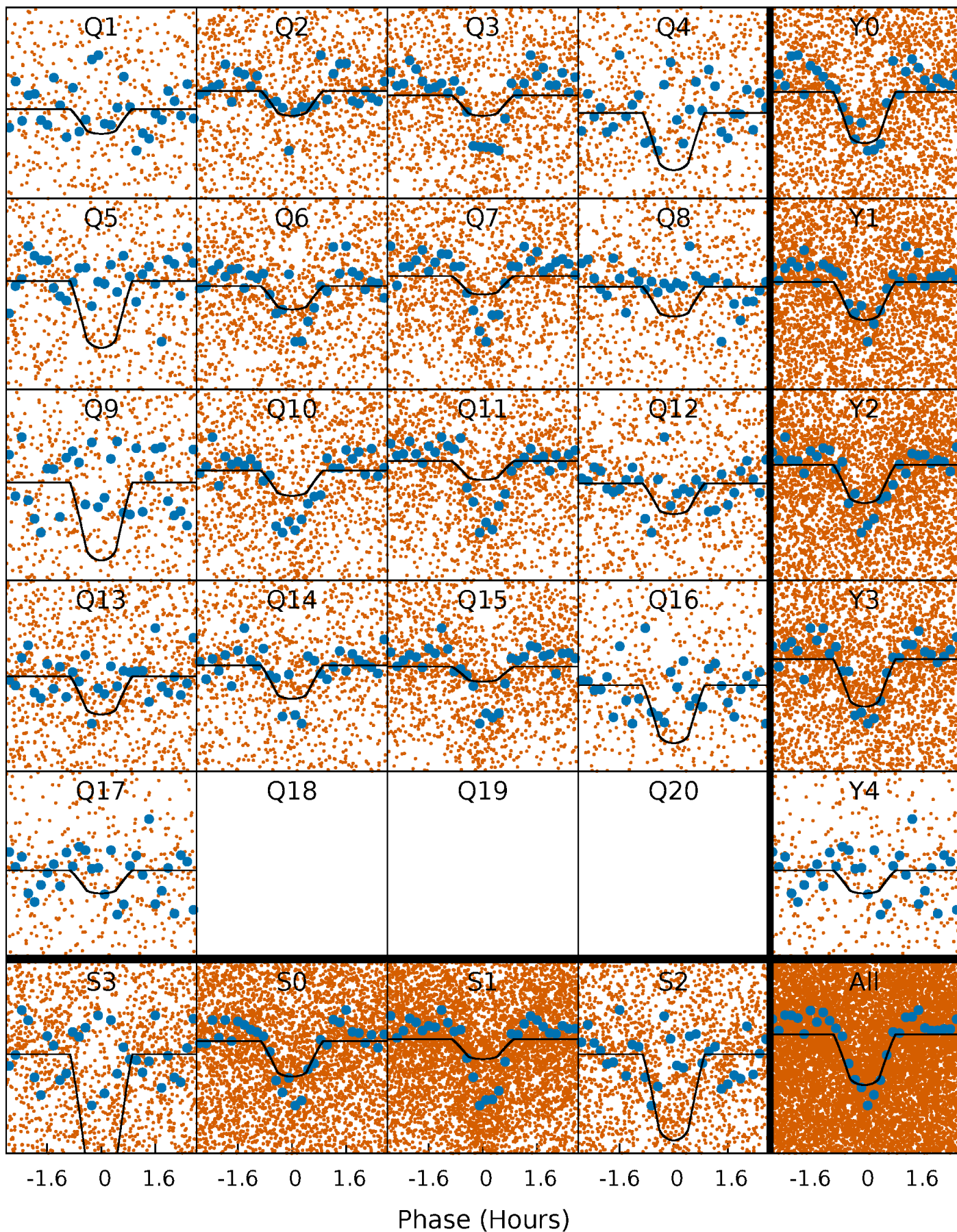
PDC Quarter-Phased Transit Curves

TCE 003343866-01 P= 0.555973 Days $T_0=131.964877$ (BKJD)



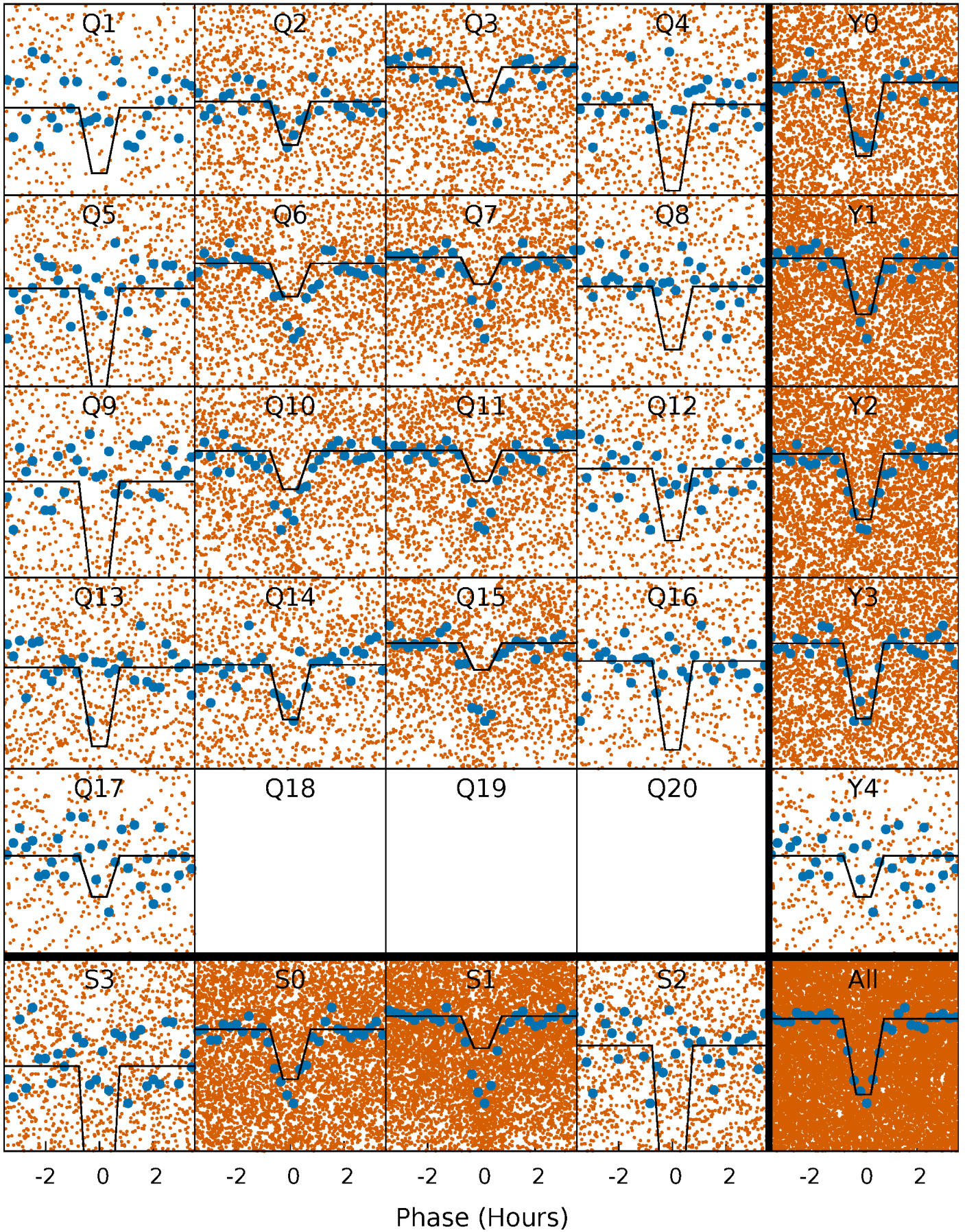
DV Quarter-Phased Transit Curves

TCE 003343866-01 P= 0.555973 Days $T_0=131.964877$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

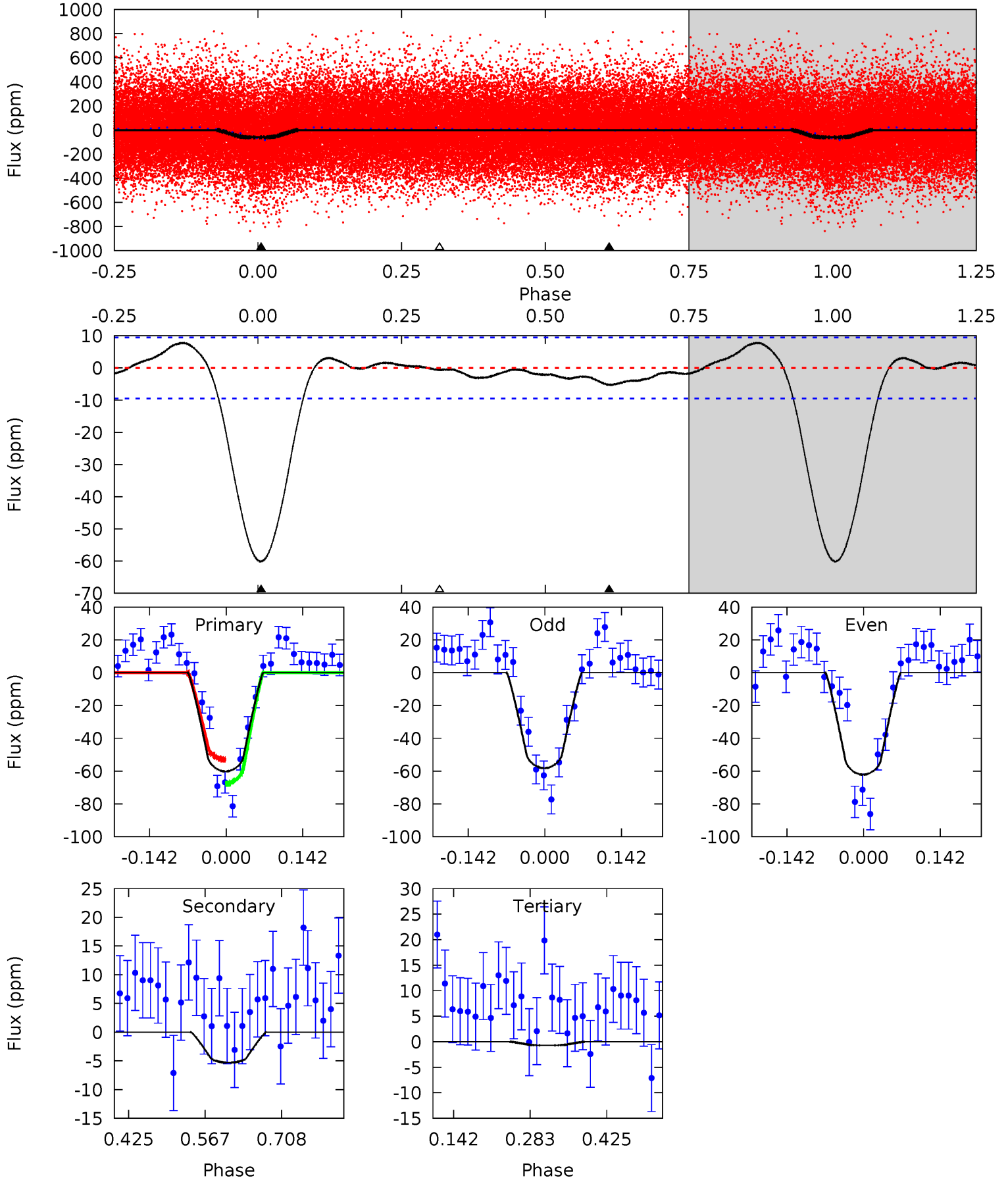
TCE 003343866-01 P= 0.555976 Days $T_0=131.963211$ (BKJD)



DV Model-Shift Uniqueness Test

003343866-01, P = 0.555973 Days, E = 131.408904 Days

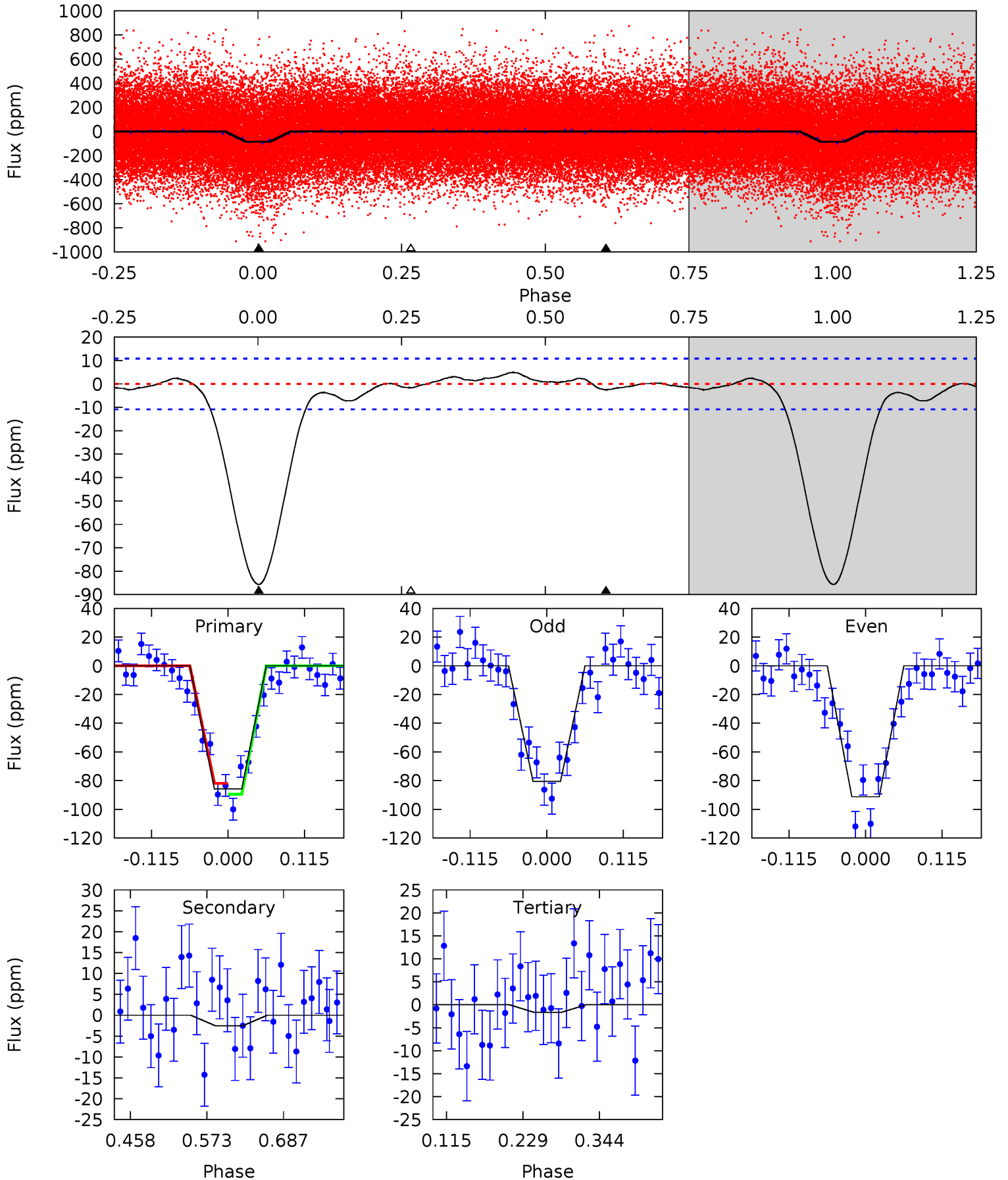
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.5	2.51	0.33	0	4.49	1.47	1.08	28.2	28.5	2.18	2.51	0.94	0.99	0.12	3.51



Alt Model-Shift Uniqueness Test

003343866-01, P = 0.555976 Days, E = 131.407235 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.9	1.06	0.70	0	4.54	1.58	1.21	35.2	35.9	0.36	1.06	2.25	1.08	0.05	1.57



Stellar Parameters For KIC 003343866

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5445^{+190}_{-171}	$3.776^{+0.780}_{-0.260}$	$-0.460^{+0.350}_{-0.250}$	$2.117^{+1.051}_{-1.401}$	$0.977^{+0.207}_{-0.186}$	$0.145^{+2.108}_{-0.081}$
	+3%/-3%	+21%/-7%	+76%/-54%	+50%/-66%	+21%/-19%	+1454%/-56%
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 003343866-01 / KOI 6328.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-5 ± 2	$1.61^{+1.06}_{-0.80}$	4135^{+556}_{-666}	-3140^{+6841}_{-684}	$0.177^{+0.621}_{-0.118}$
Alt.	-3 ± 2	$1.96^{+1.07}_{-0.94}$	4203^{+584}_{-776}	-3667^{+857}_{-420}	$0.050^{+0.162}_{-0.051}$

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

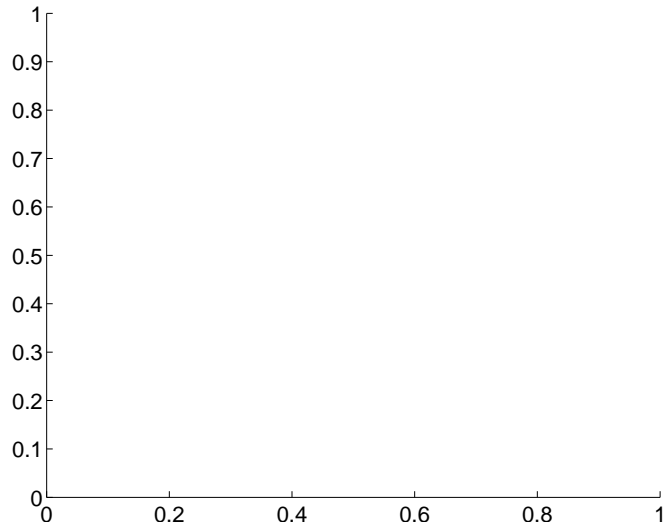
Supplemental centroid analysis for 003343866-01. Kepler magnitude: 13.76. Transit SNR 16.42

There are 0 quarters with good PRF difference image offsets

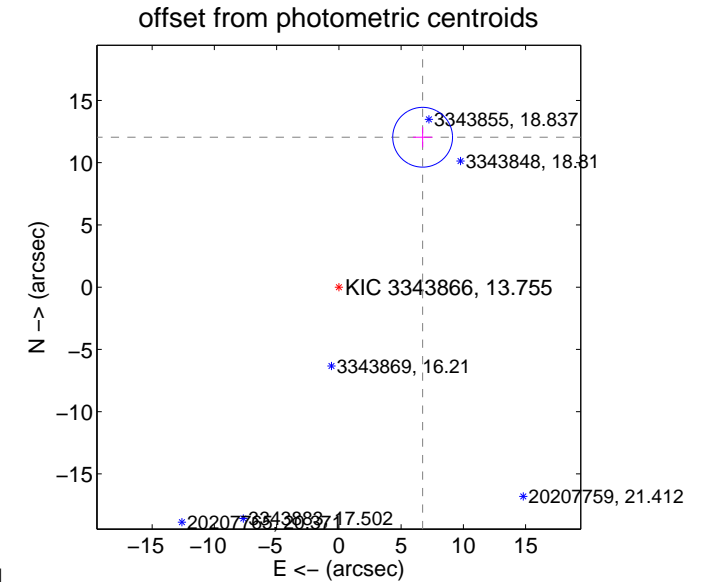
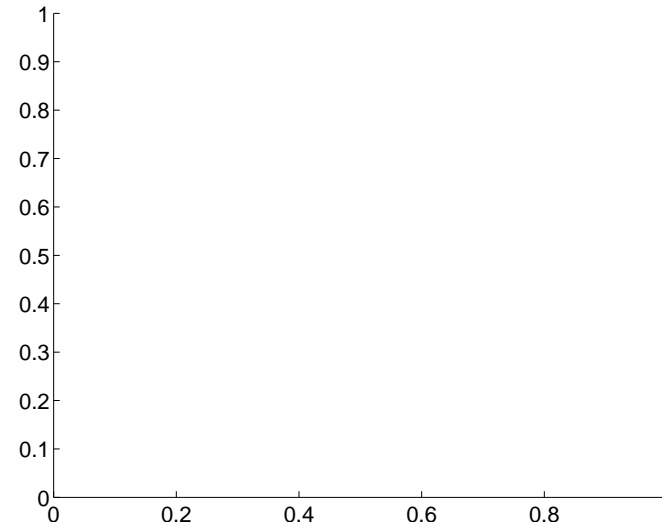
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	13.79 ± 0.80	17.23	-6.73 ± 0.78	12.04 ± 0.81

There is no PRF-fit offset from OOT-fit

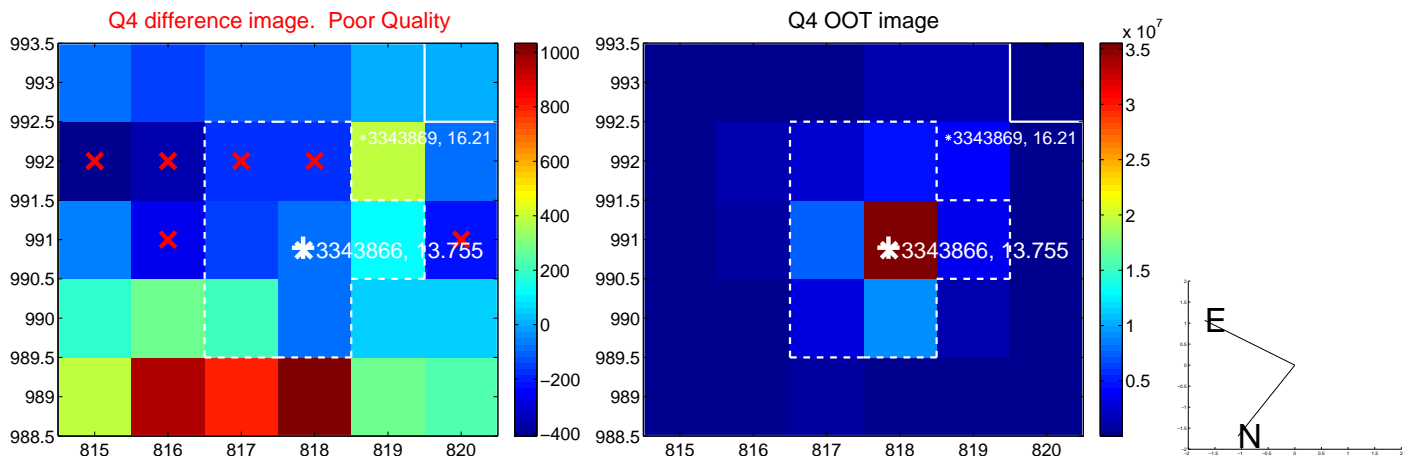
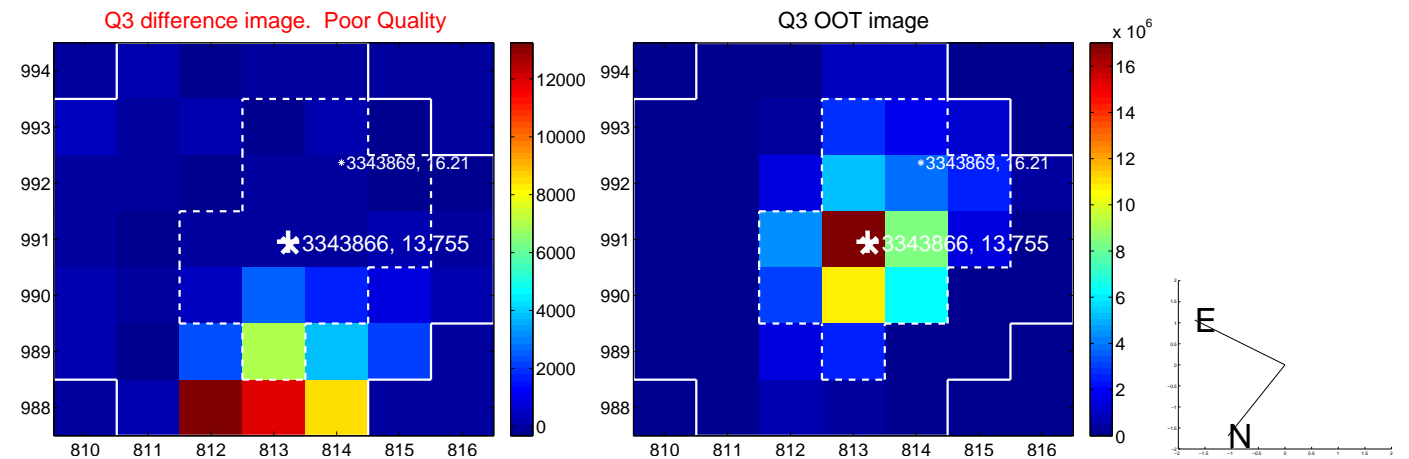
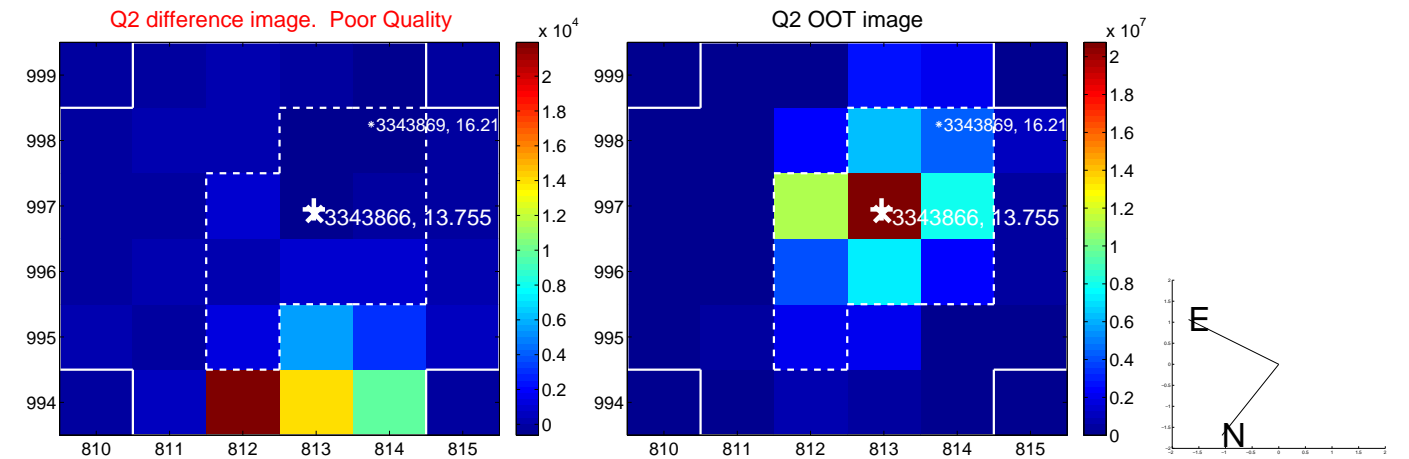
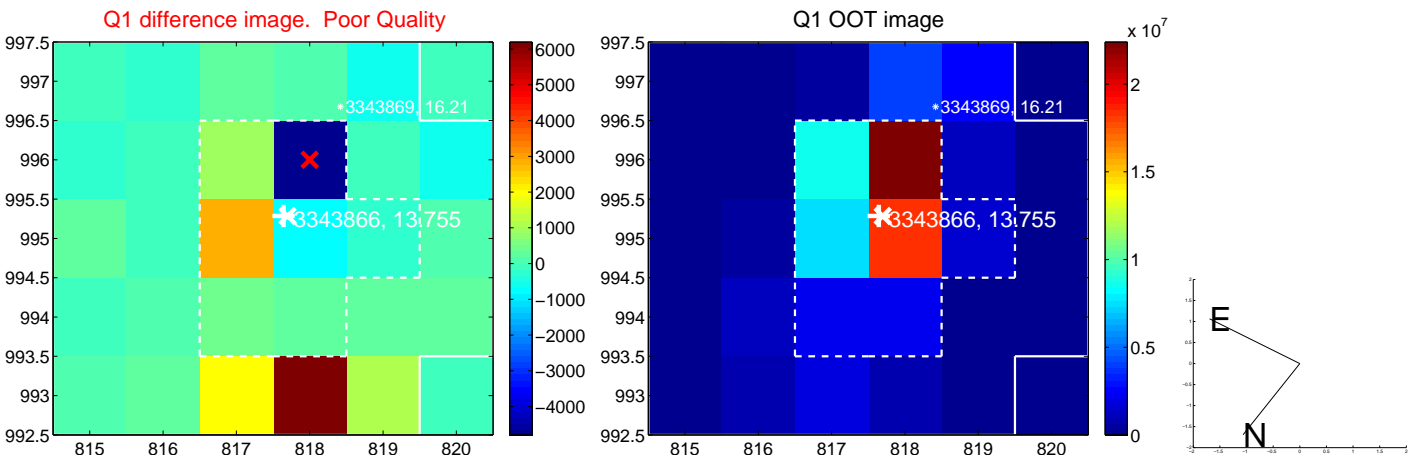


There is no PRF-fit offset from KIC

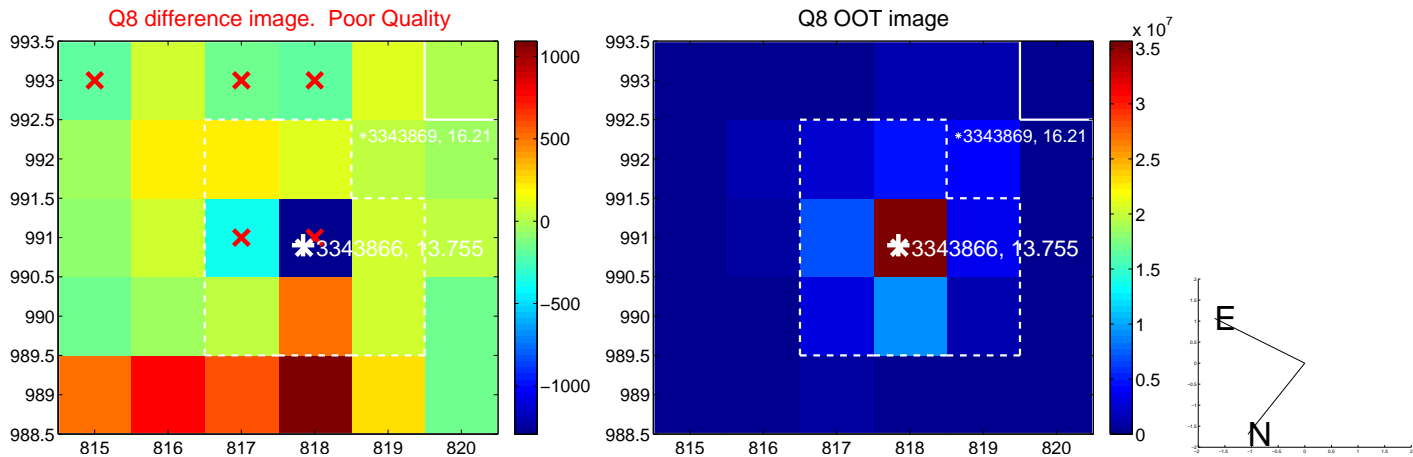
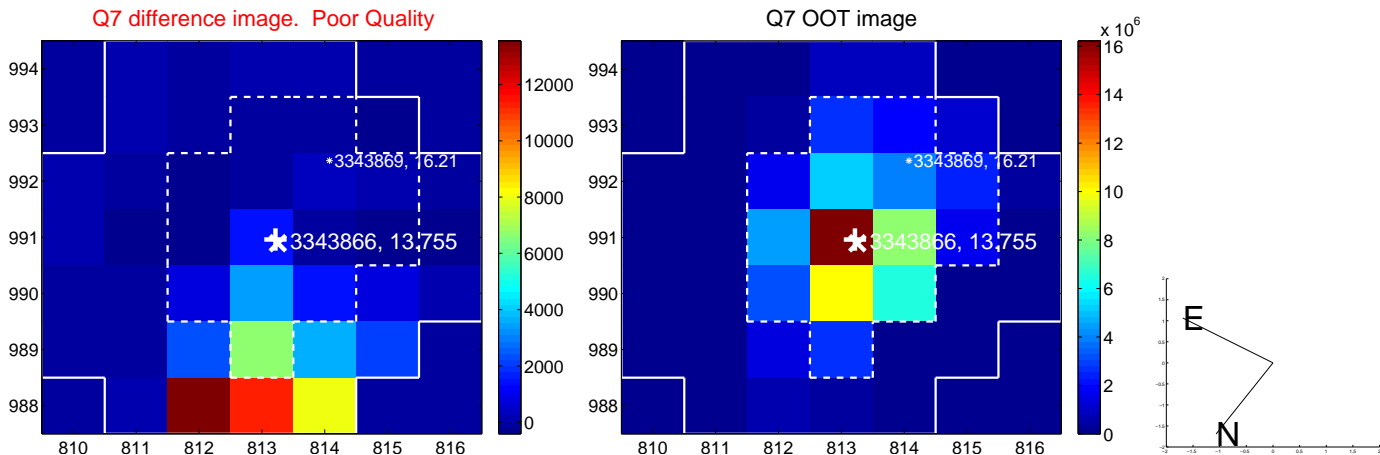
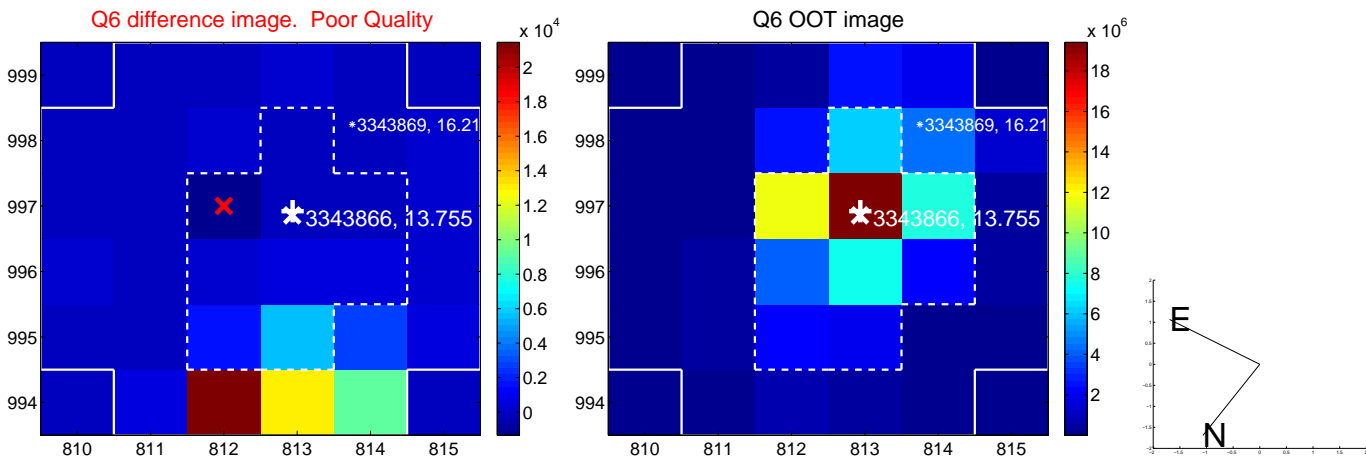
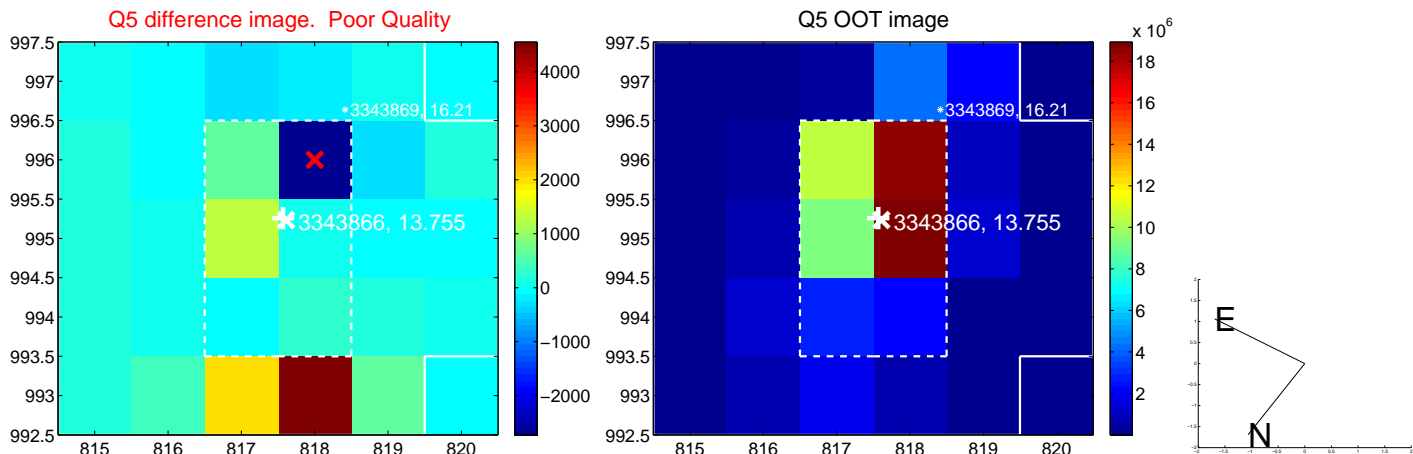


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

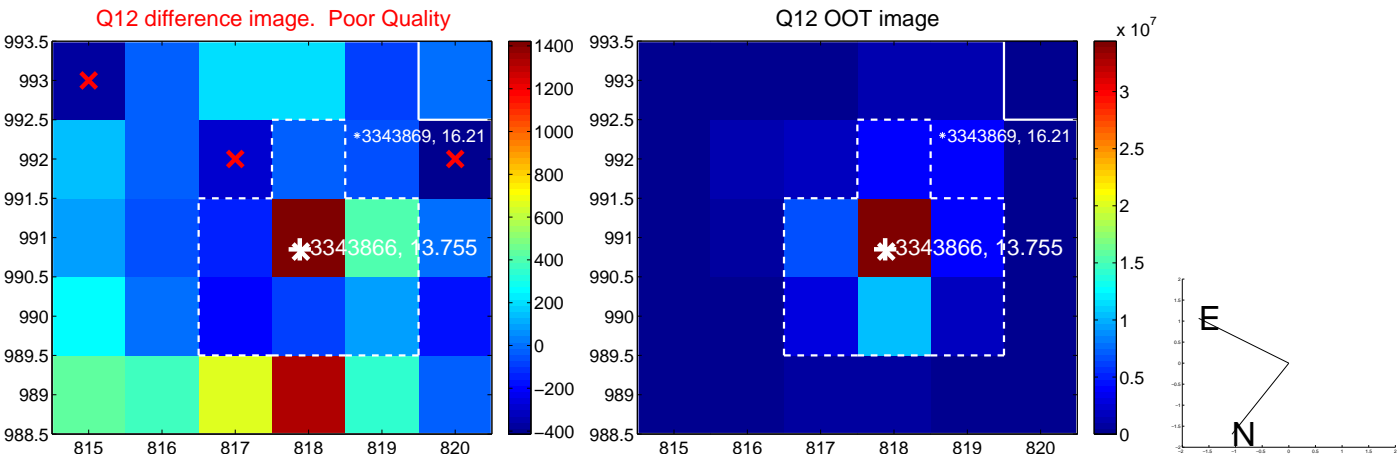
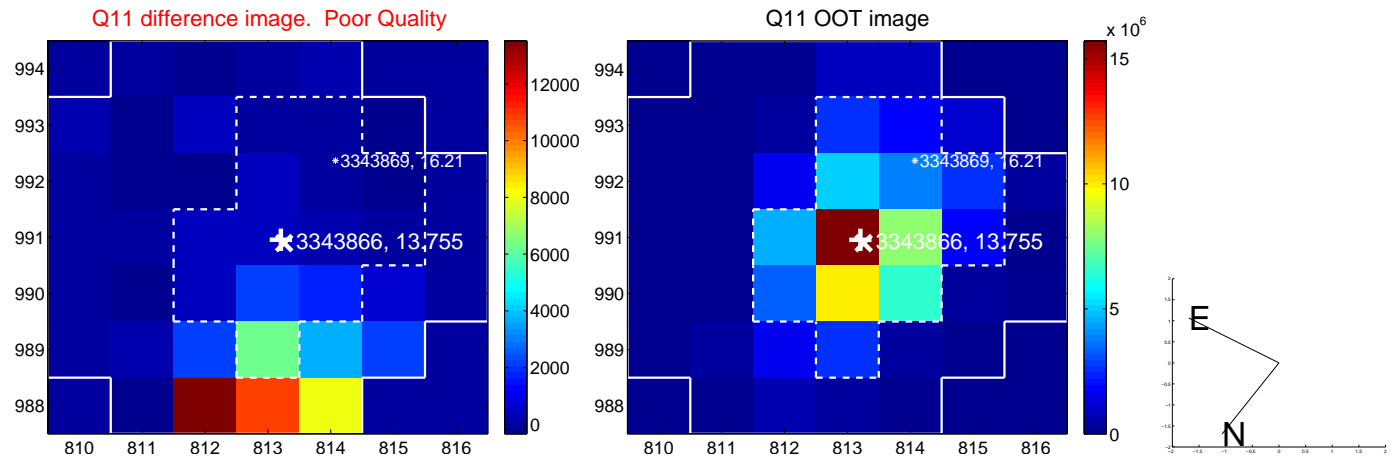
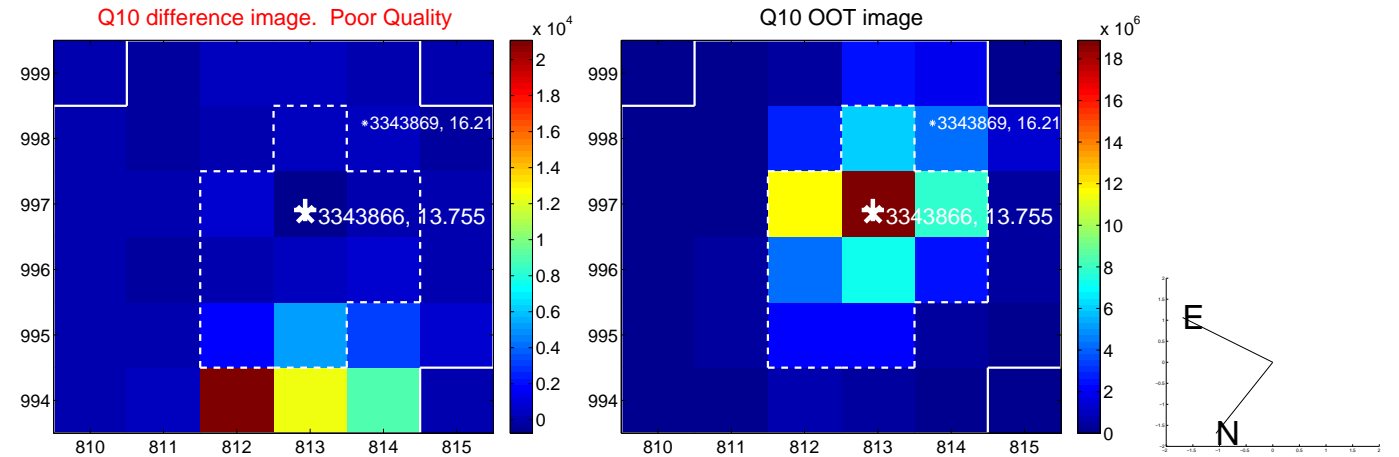
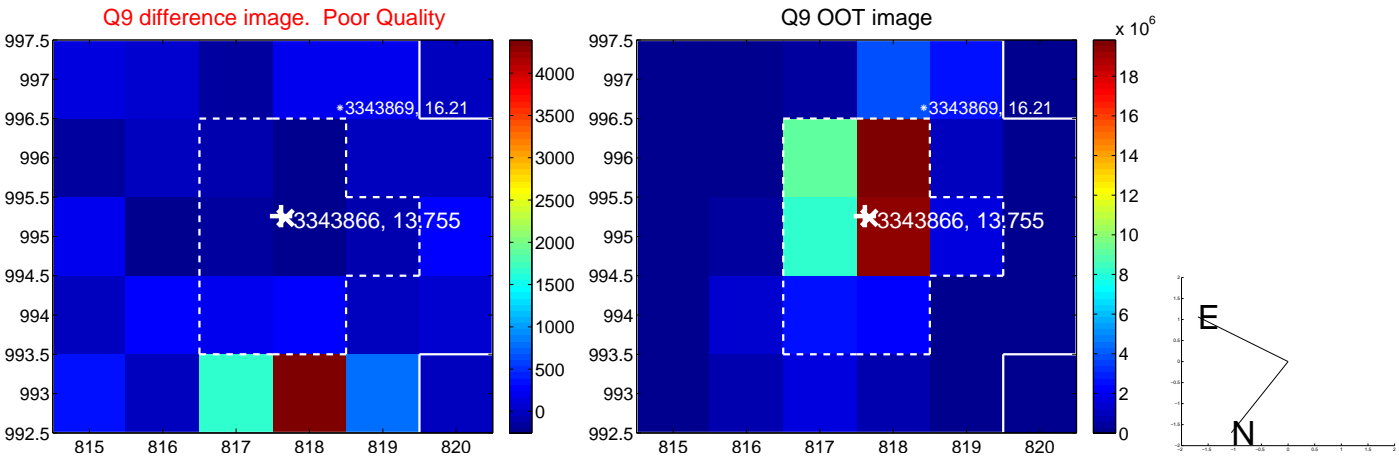
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



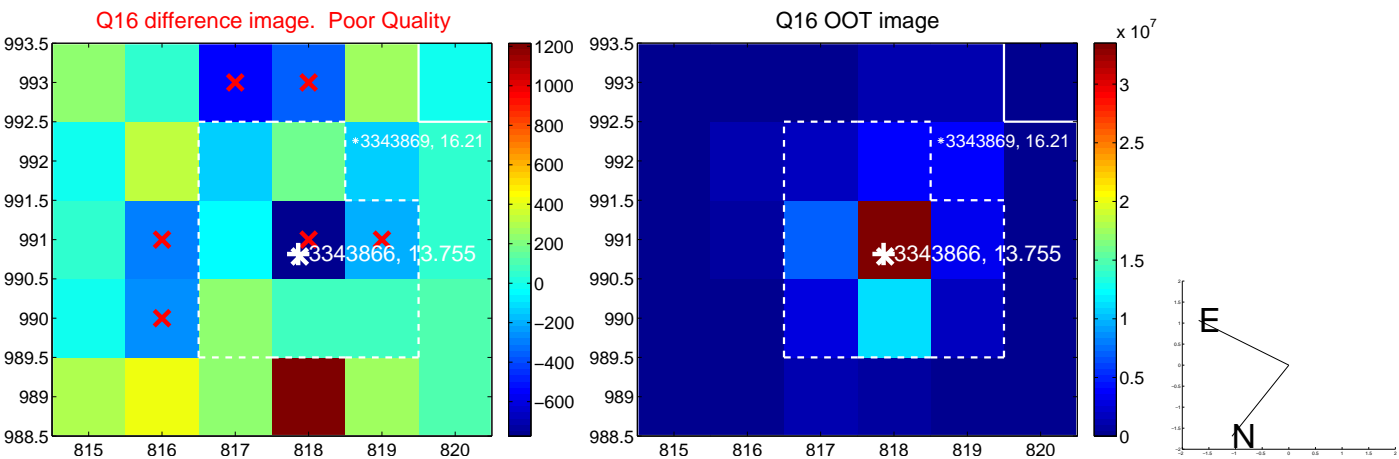
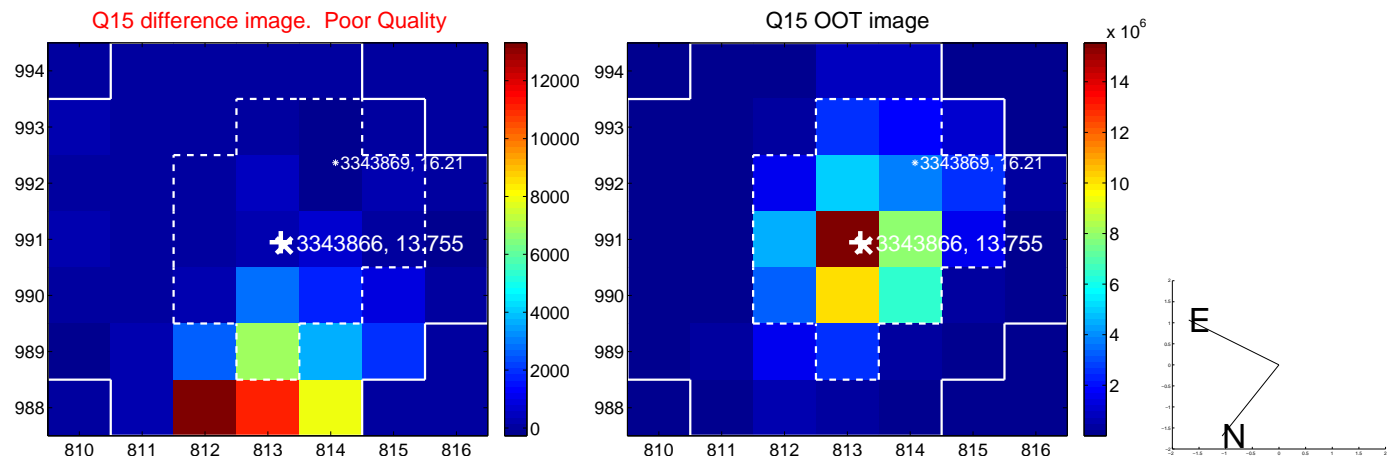
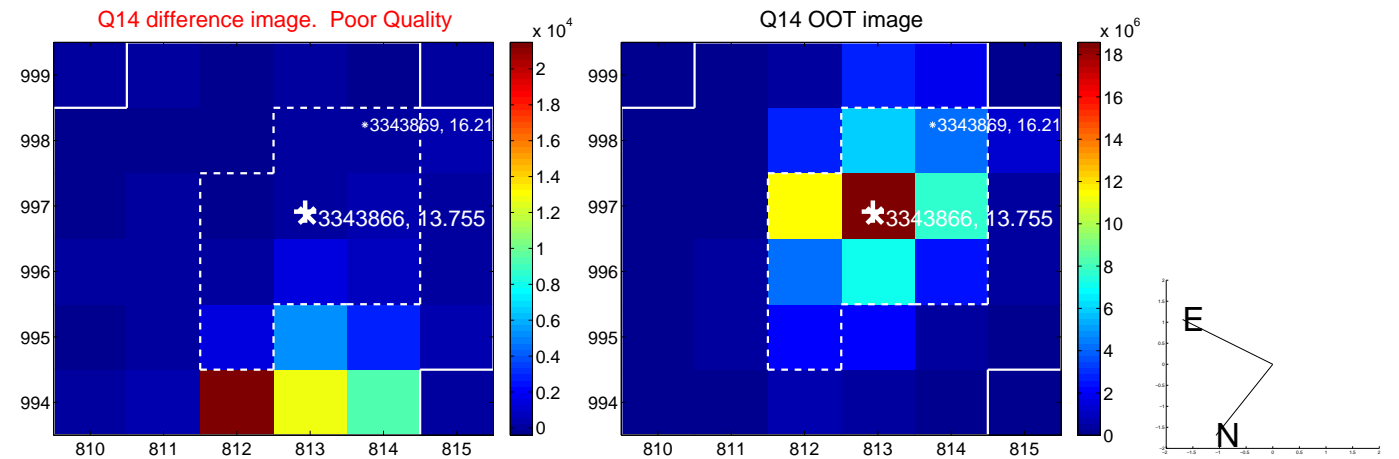
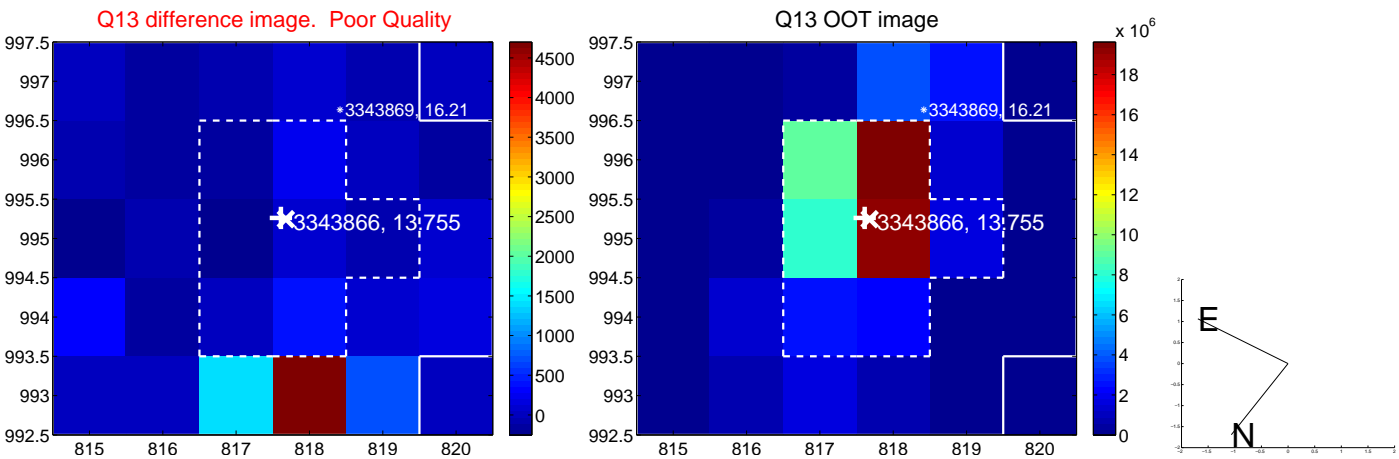
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



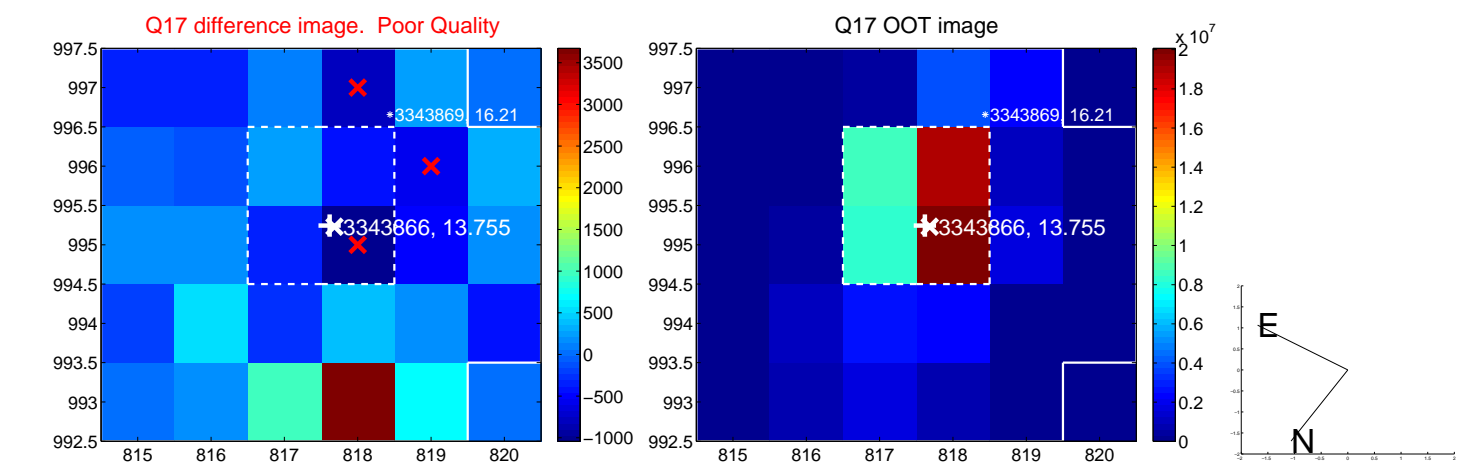
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



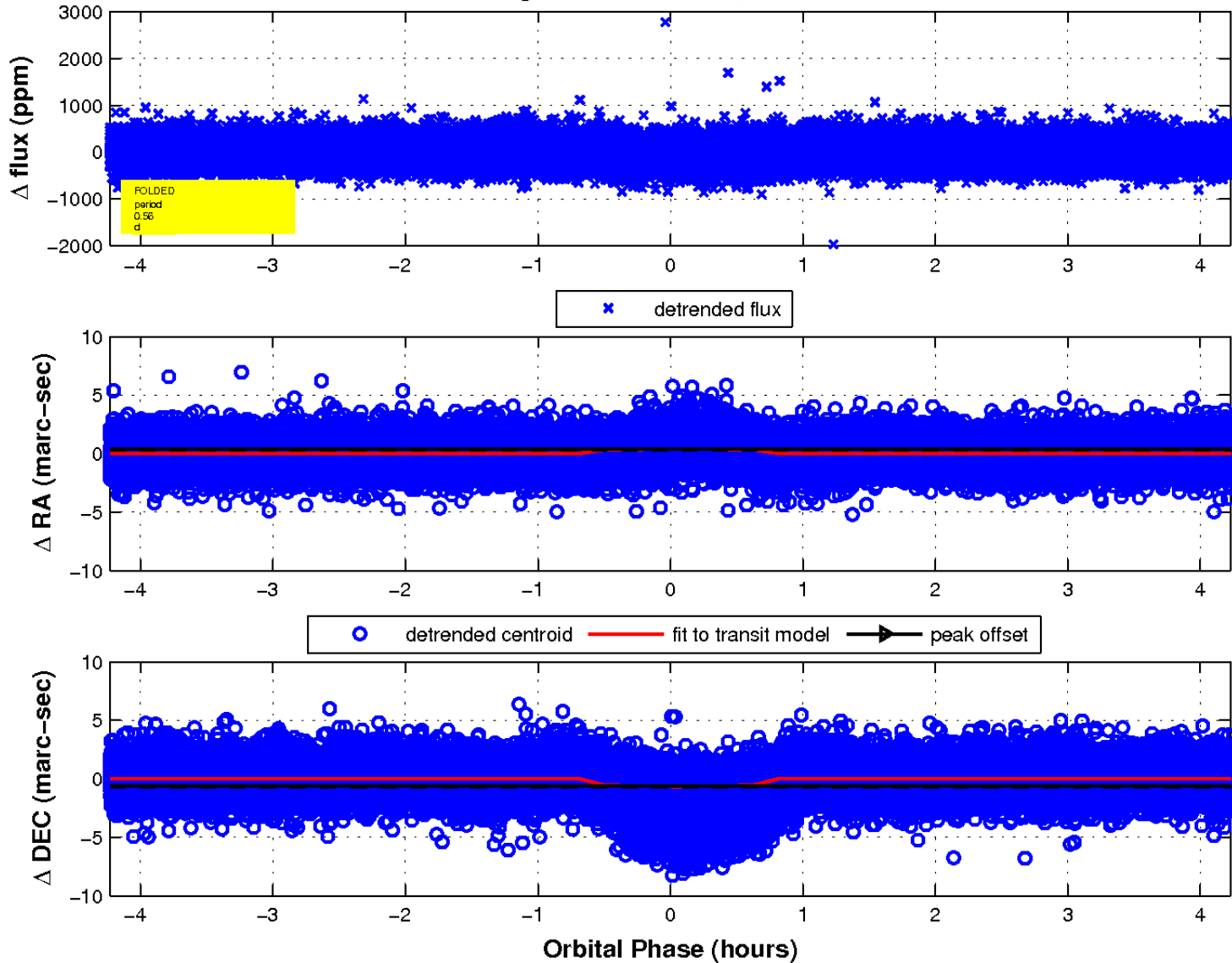
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

