

KIC 010923323

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})
010923323-01	OBS	No	0.995262	132.207598	9.0	9.751	7.6	3.1	1.04	6184	0.31	3474.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010923323-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—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.

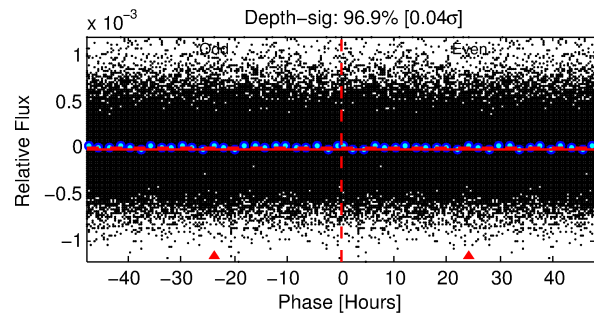
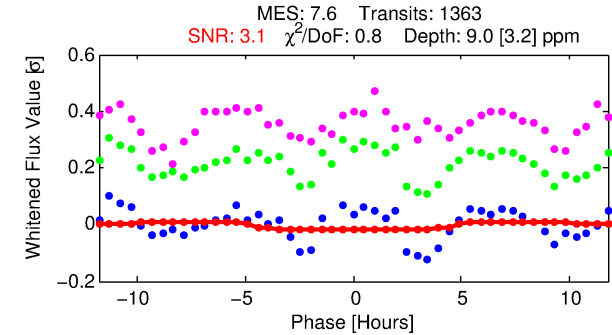
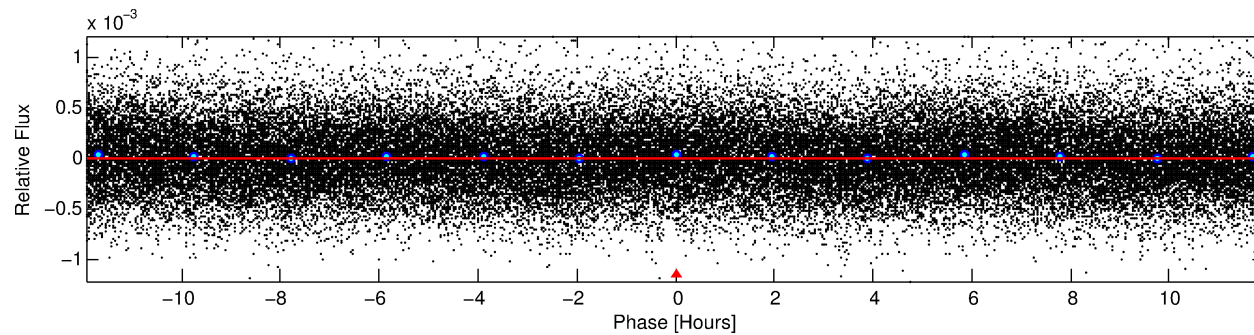
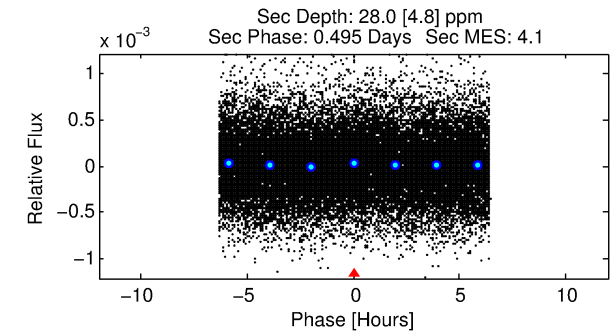
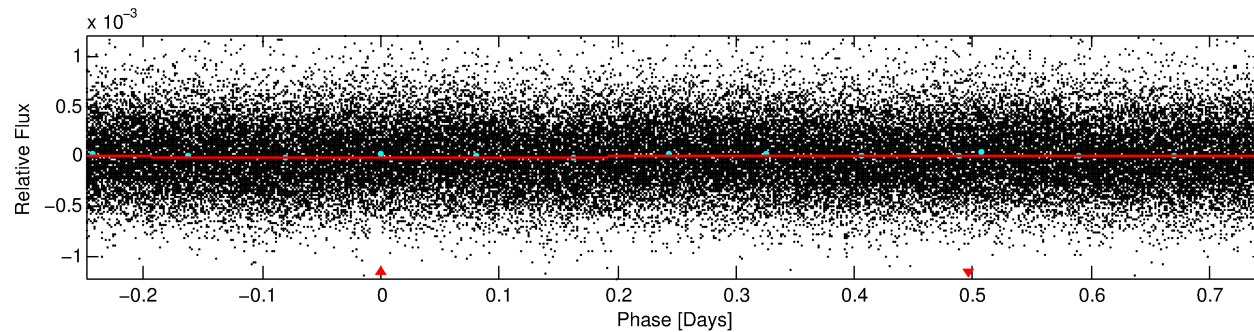
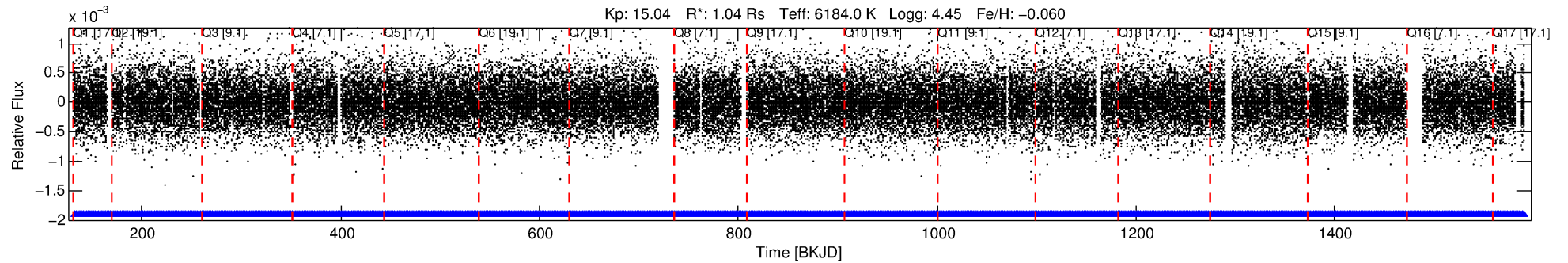
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010923323-01

No Significant Match Found

DV One-Page Summary

KIC: 10923323 Candidate: 1 of 1 Period: 0.995 d



DV Fit Results:

Period = 0.99526 [0.00006] d
Epoch = 132.2076 [0.0266] BKJD
Rp/R* = 0.0027 [0.0086]
a/R* = 1.05 [1.36]
b = 0.03 [514.55]
Seff = 3474.19 [1426.34]
Teq = 1958 [201] K
Rp = 0.31 [0.98] Re
a = 0.0202 [0.0053] AU
Ag = 64.96 [409.17] [0.16σ]
Teffp = 8593 [13510] K [0.49σ]

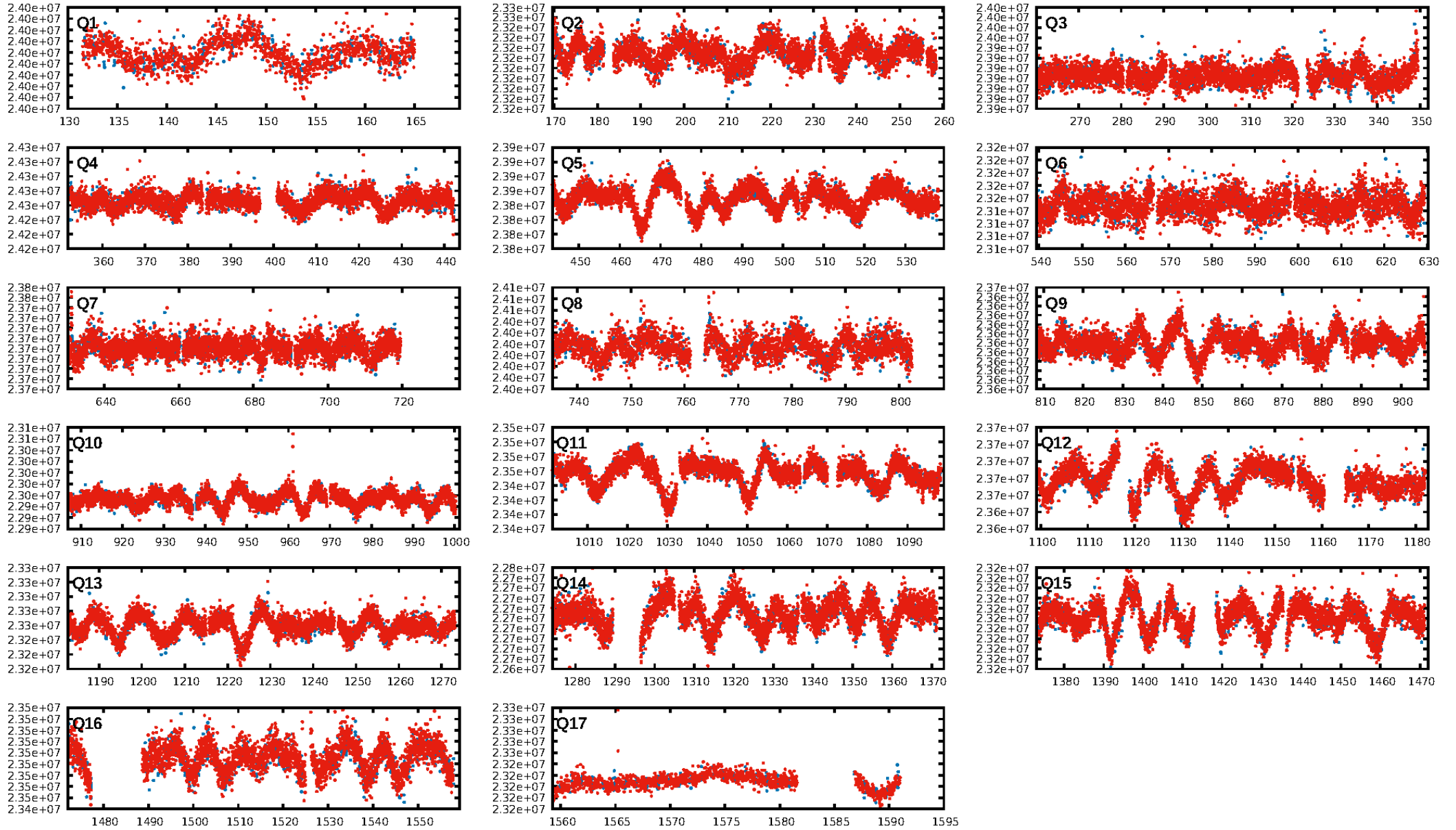
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1302/1302]
GhostDiagnostic-chr: 0.694
Centroid-sig: 2.6%
Centroid-so: 6.123 arcsec [1.61σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

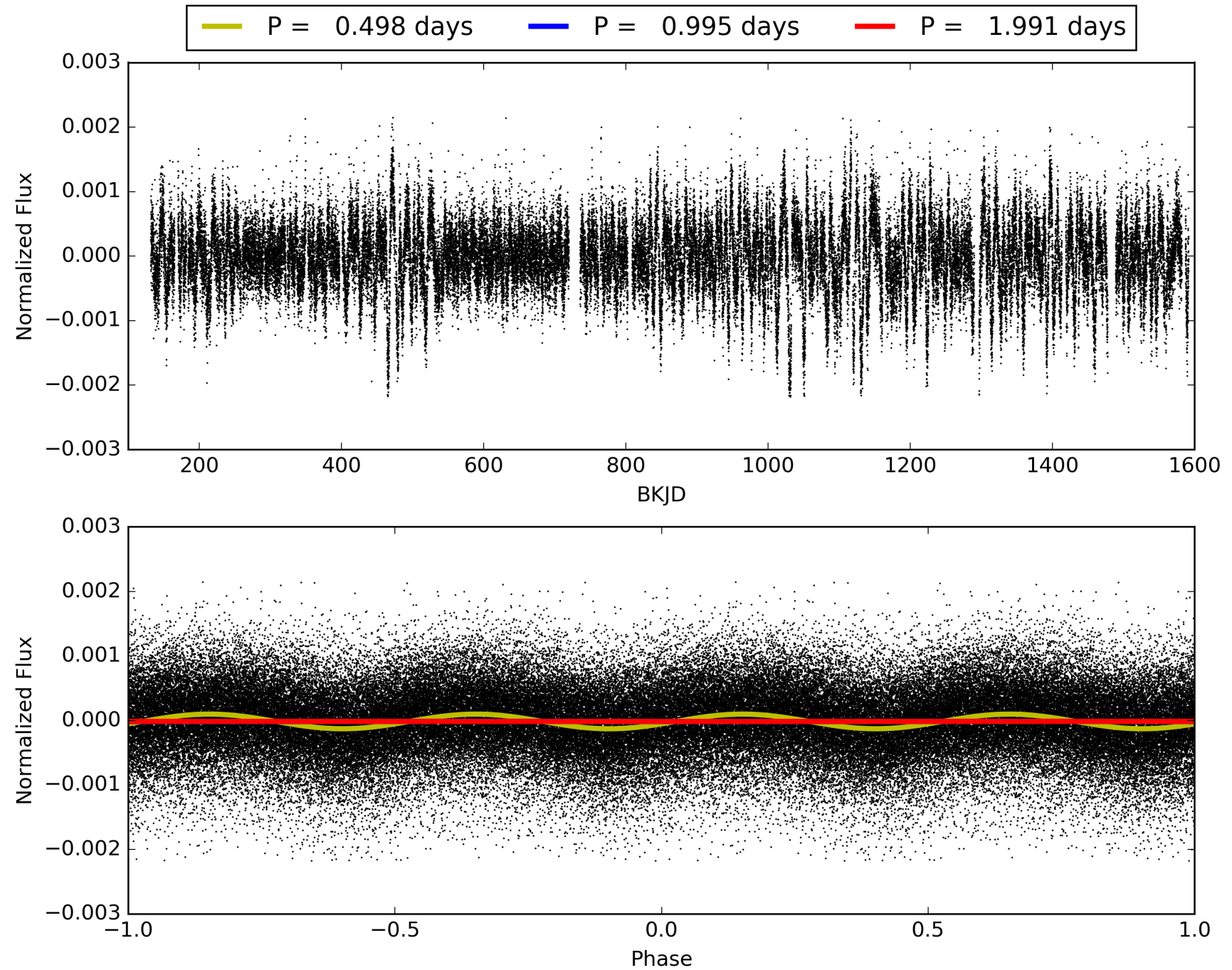
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 22:10:00 Z

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

TCE 010923323-01, PDC Light Curves

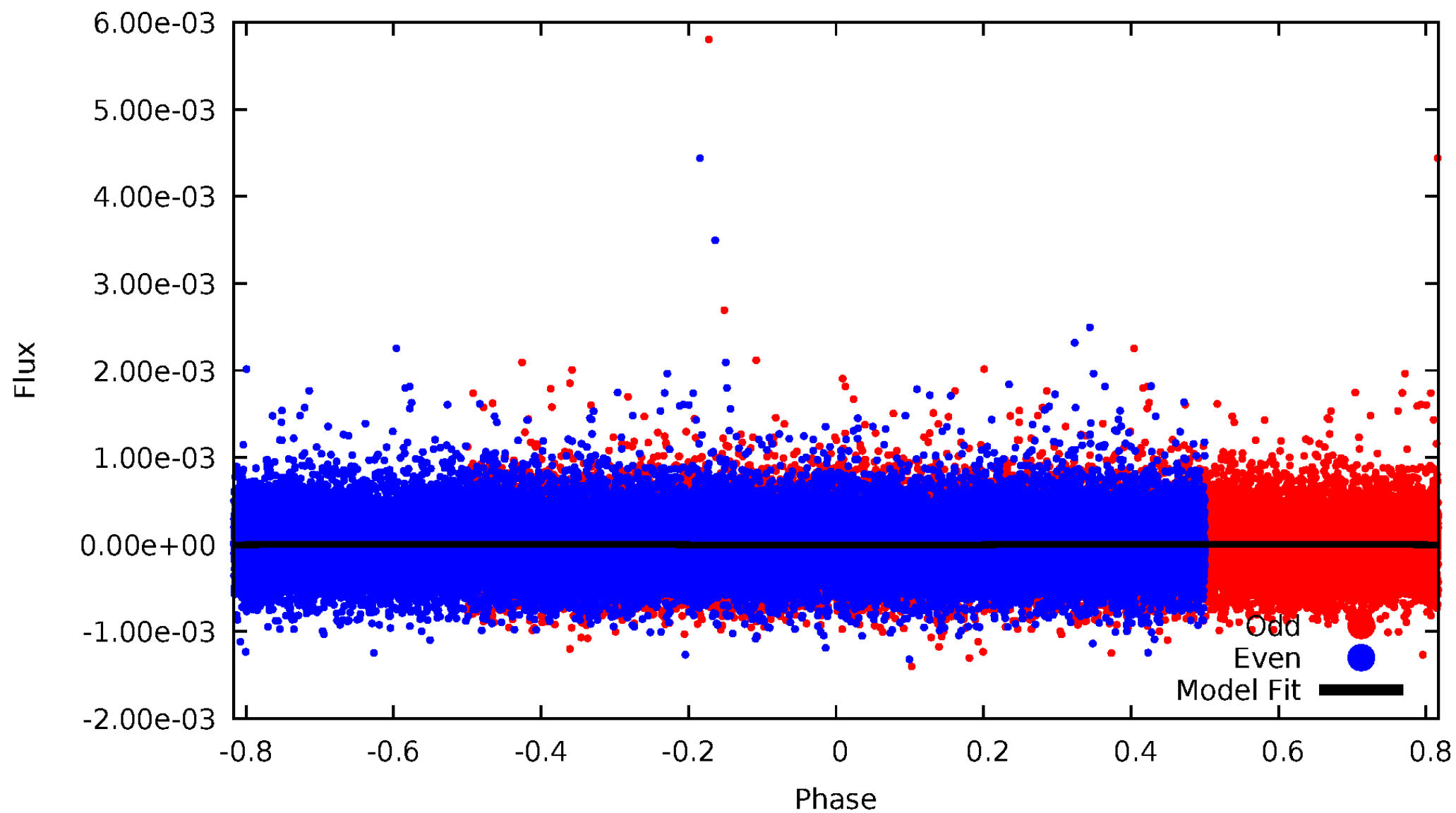


TCE 010923323-01



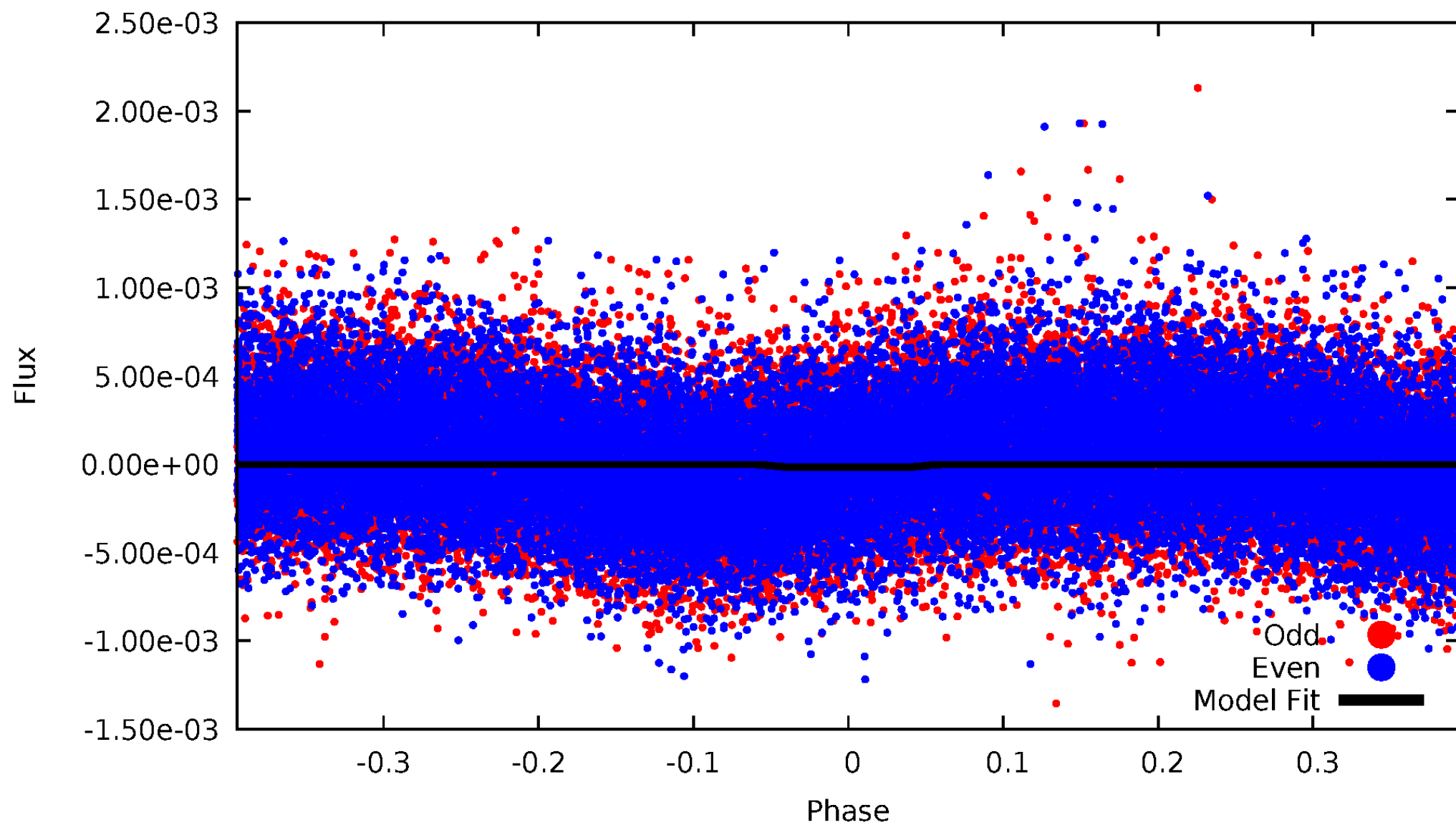
DV Odd/Even

TCE 010923323-01



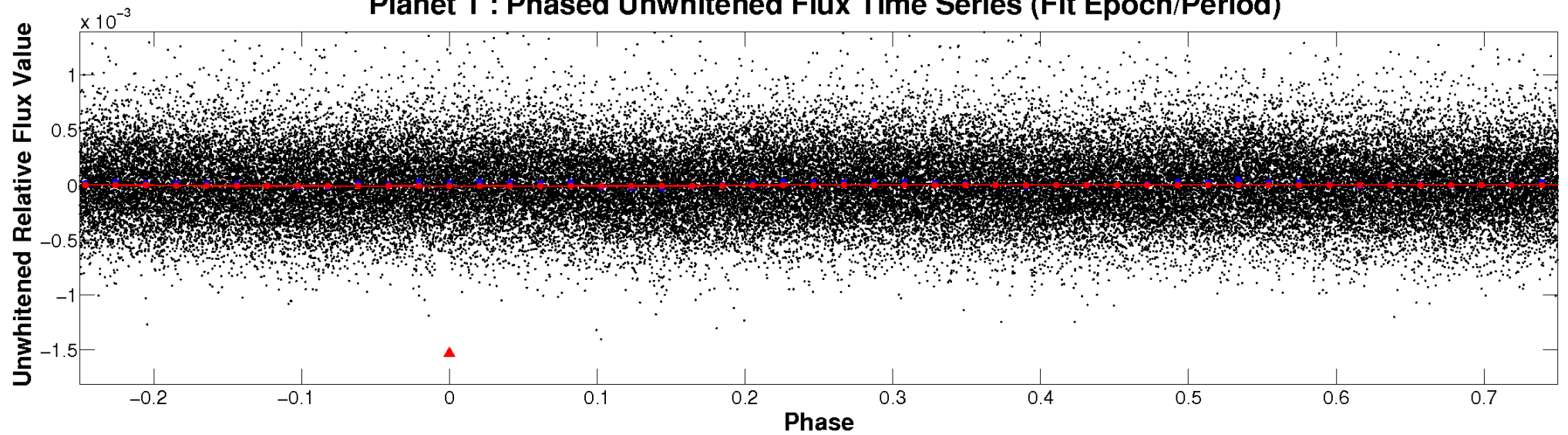
ALT Odd/Even

TCE 010923323-01

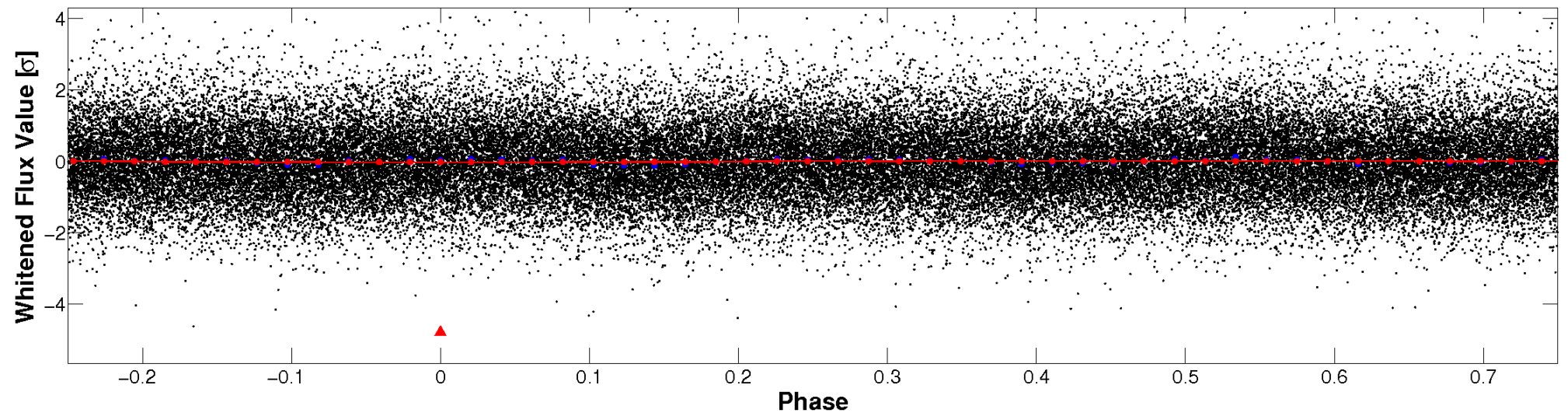


Non-Whitened Vs. Whitened Light Curve

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

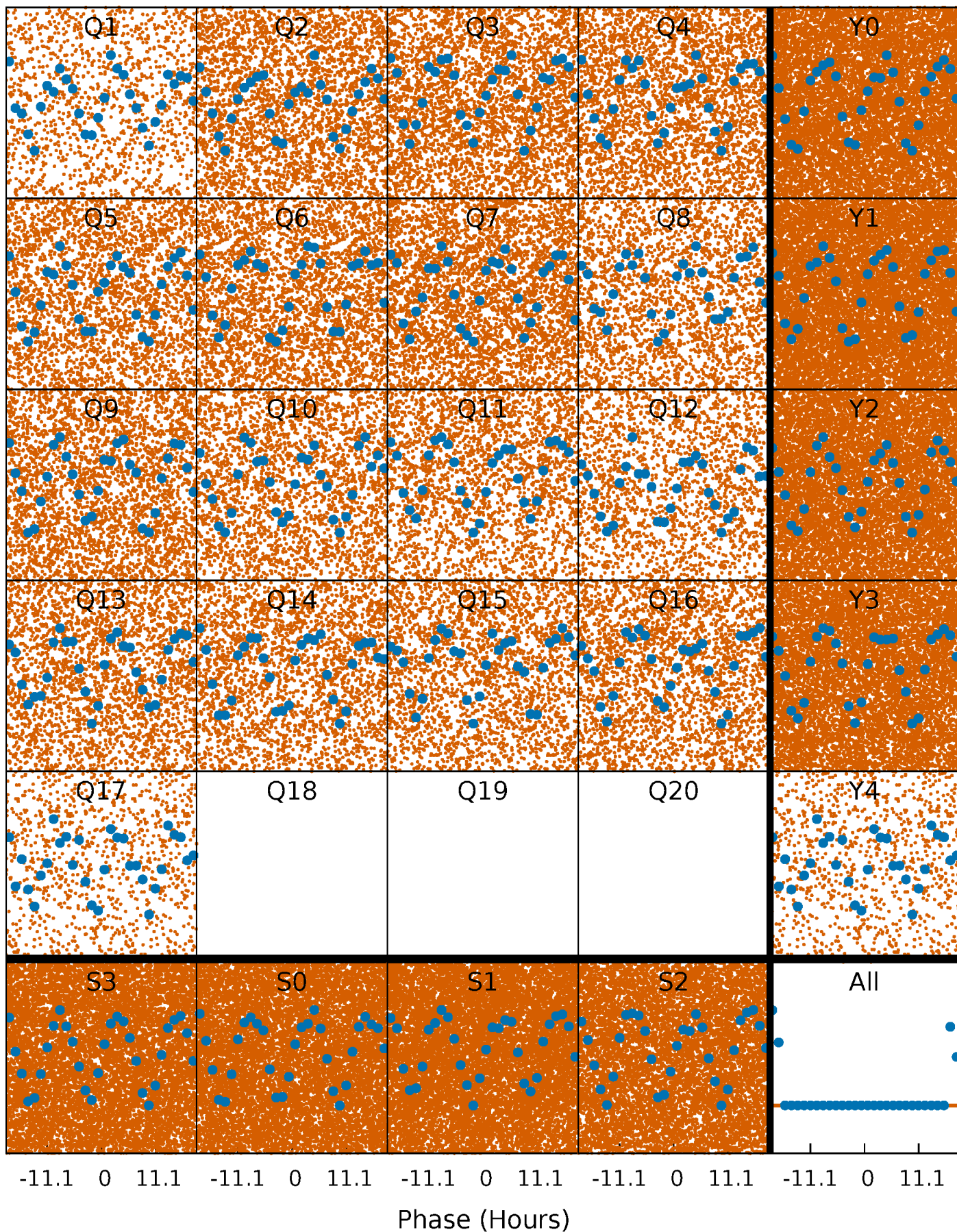


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



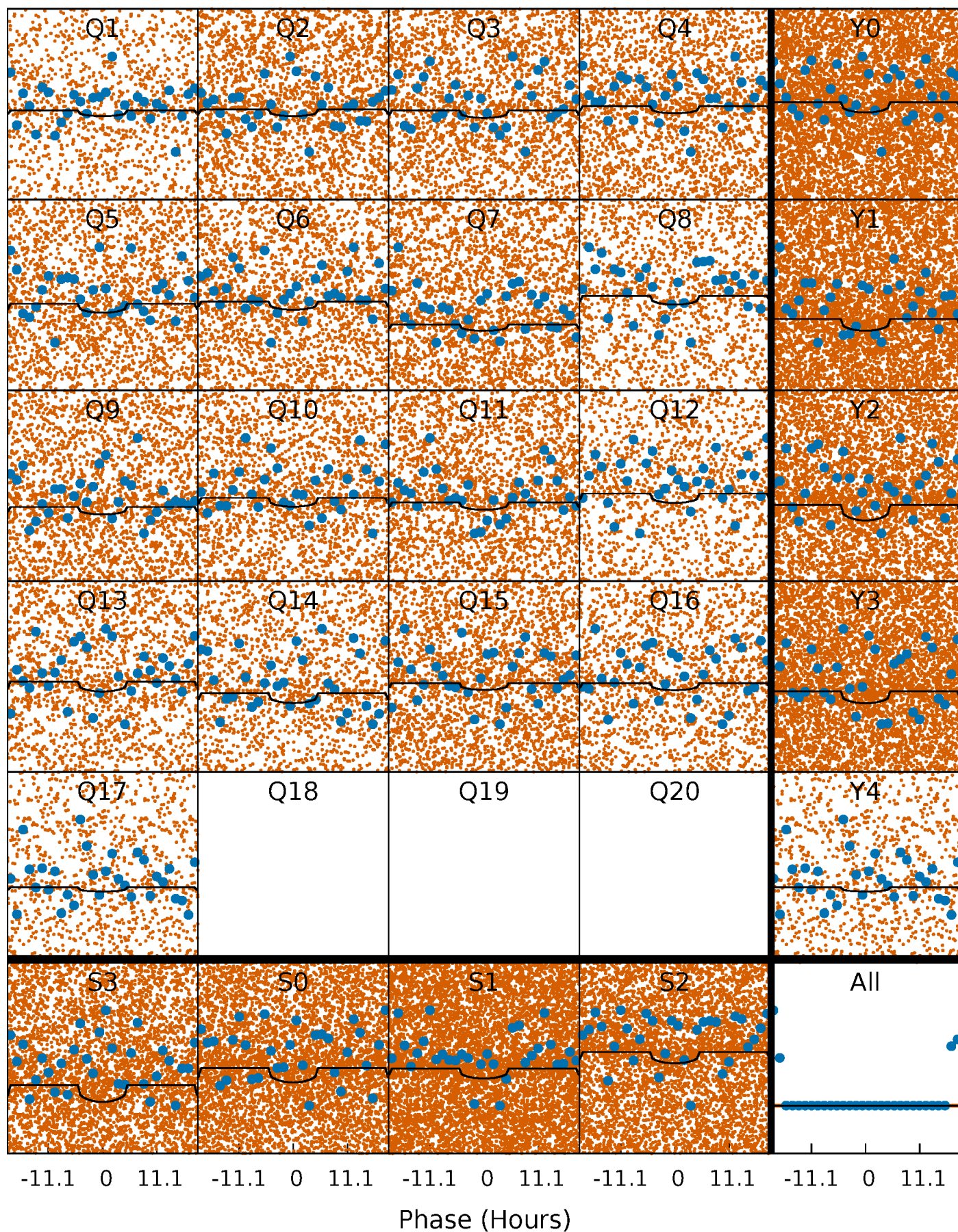
PDC Quarter-Phased Transit Curves

TCE 010923323-01 P= 0.995262 Days $T_0=132.207598$ (BKJD)



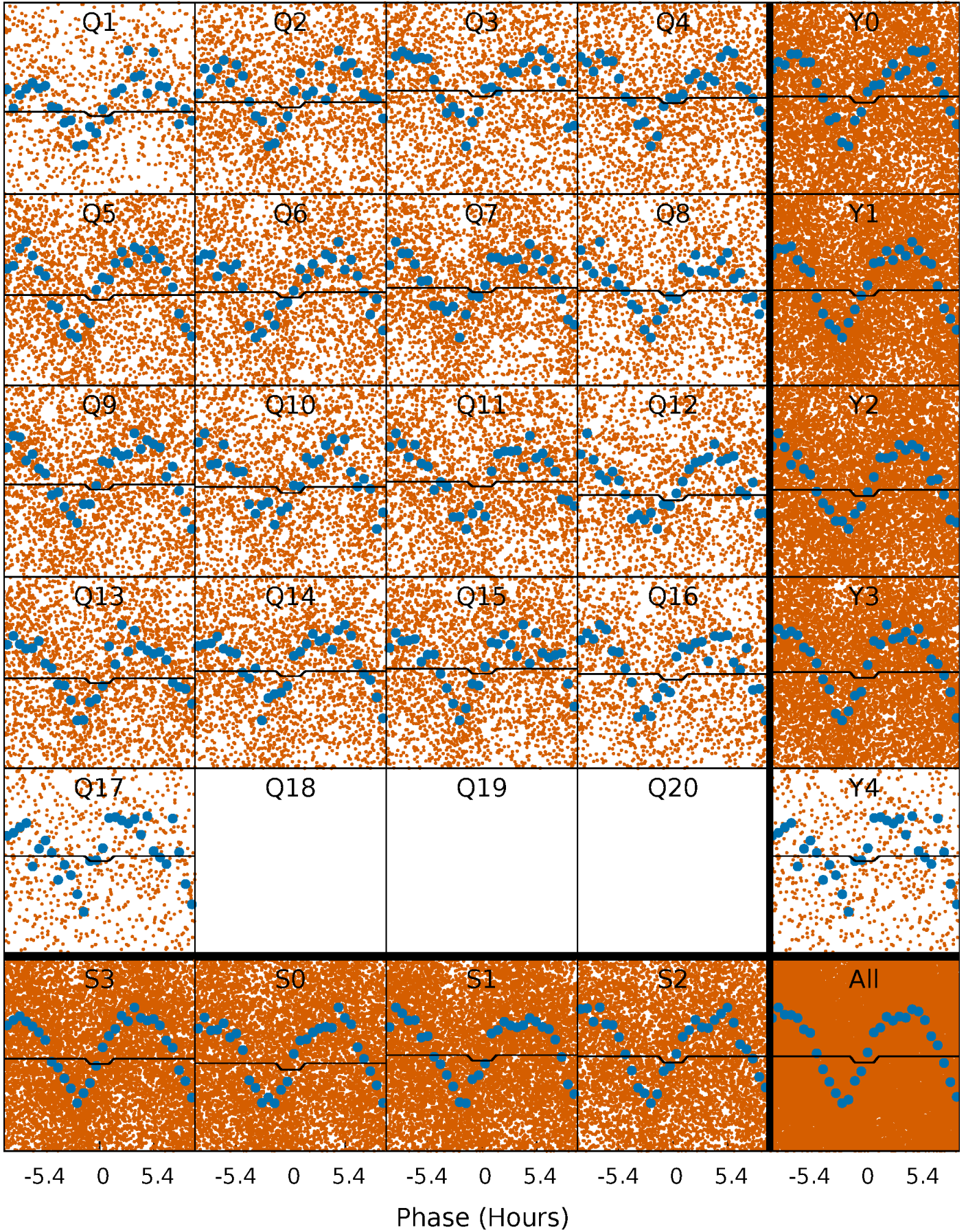
DV Quarter-Phased Transit Curves

TCE 010923323-01 P= 0.995262 Days $T_0=132.207598$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

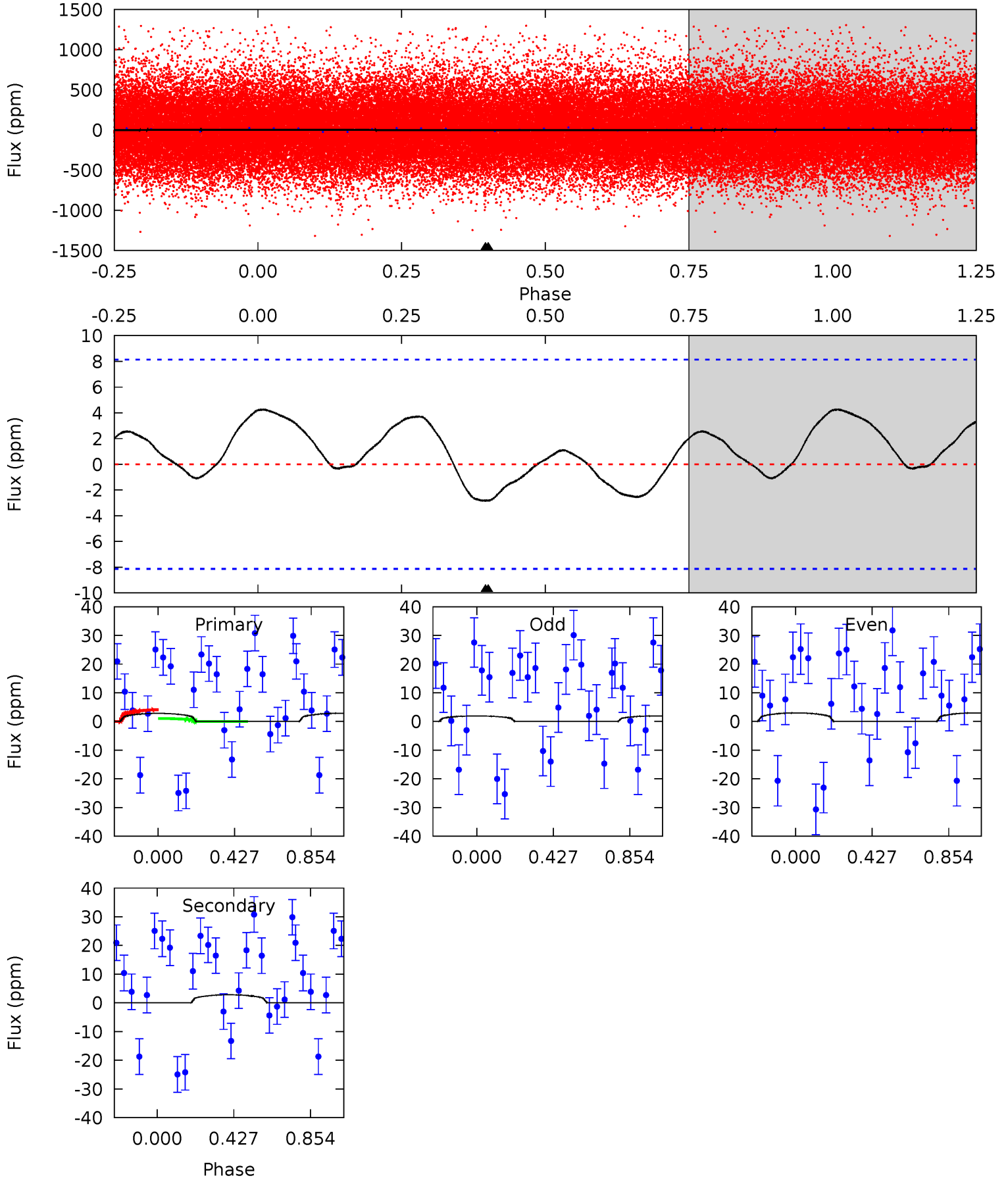
TCE 010923323-01 P= 0.995295 Days $T_0=132.173167$ (BKJD)



DV Model-Shift Uniqueness Test

010923323-01, P = 0.995262 Days, E = 131.212336 Days

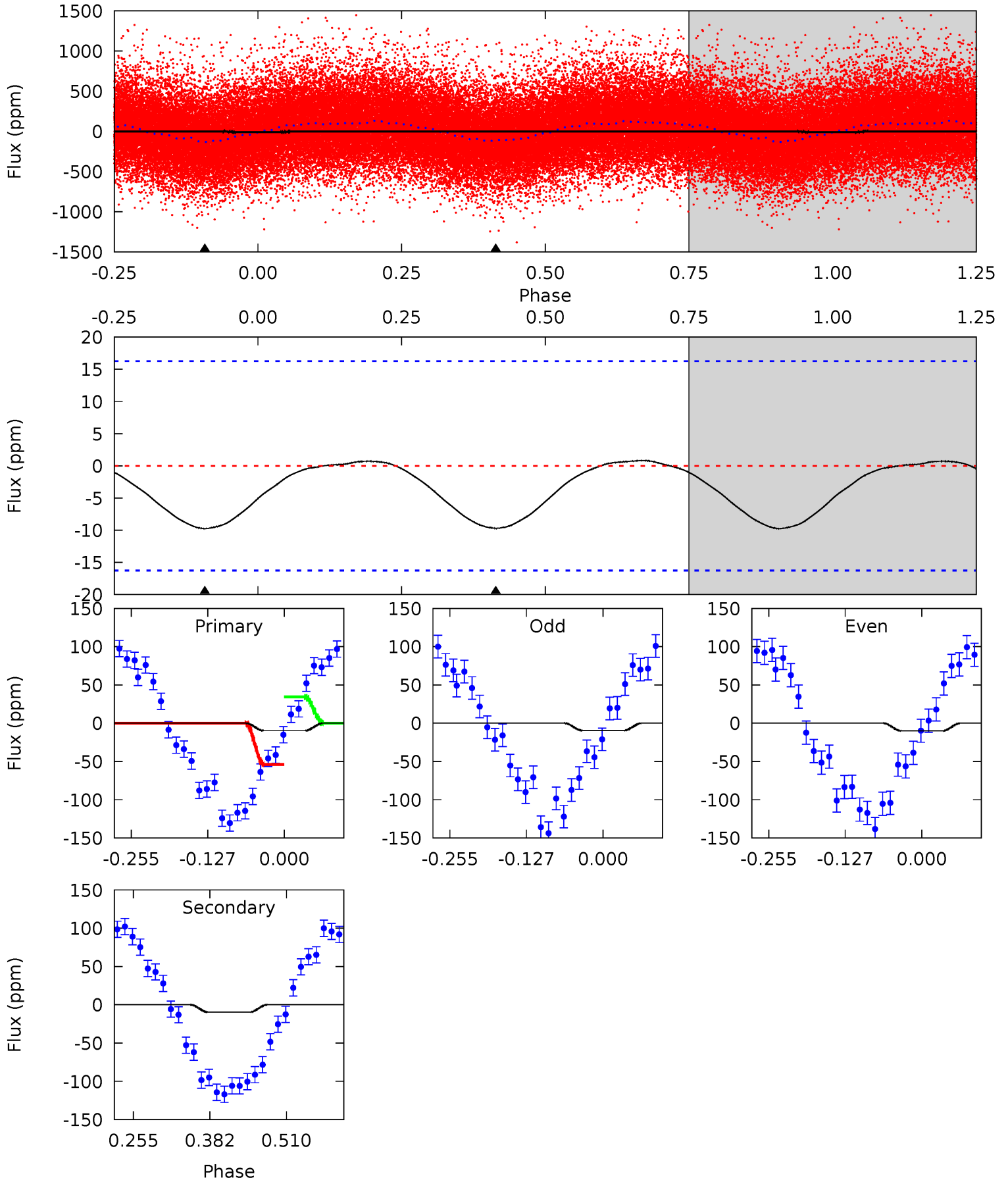
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.48	1.48	0	0	4.25	0.79	0.54	1.48	1.48	1.48	1.48	0.28	2.25	0.60	0.81



Alt Model-Shift Uniqueness Test

010923323-01, P = 0.995295 Days, E = 131.177872 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.71	2.69	0	0	4.51	1.52	0.26	2.71	2.71	2.69	2.69	0.07	1.32	0.08	2.76



Stellar Parameters For KIC 010923323

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6184^{+171}_{-236}	$4.448^{+0.052}_{-0.208}$	$-0.060^{+0.250}_{-0.300}$	$1.038^{+0.324}_{-0.108}$	$1.100^{+0.139}_{-0.153}$	$1.387^{+0.380}_{-0.717}$
	+3%/-4%	+1%/-5%	+417%/-500%	+31%/-10%	+13%/-14%	+27%/-52%
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 010923323-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-3 ± 2	$0.85^{+0.84}_{-0.58}$	2797^{+184}_{-142}	3125^{+1936}_{-5903}	$0.715^{+5.861}_{-0.605}$
Alt.	-10 ± 4	$0.94^{+0.85}_{-0.64}$	2788^{+204}_{-136}	4025^{+2605}_{-1058}	$2.354^{+19.789}_{-1.785}$

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

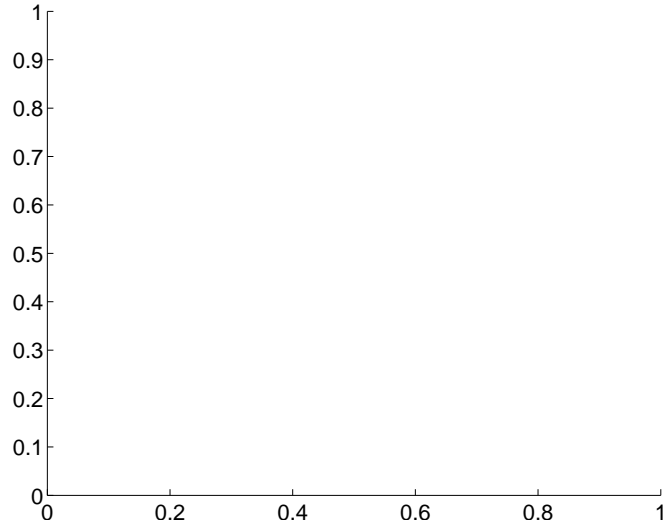
Supplemental centroid analysis for 010923323-01. Kepler magnitude: 15.04. Transit SNR 3.07

There are 0 quarters with good PRF difference image offsets

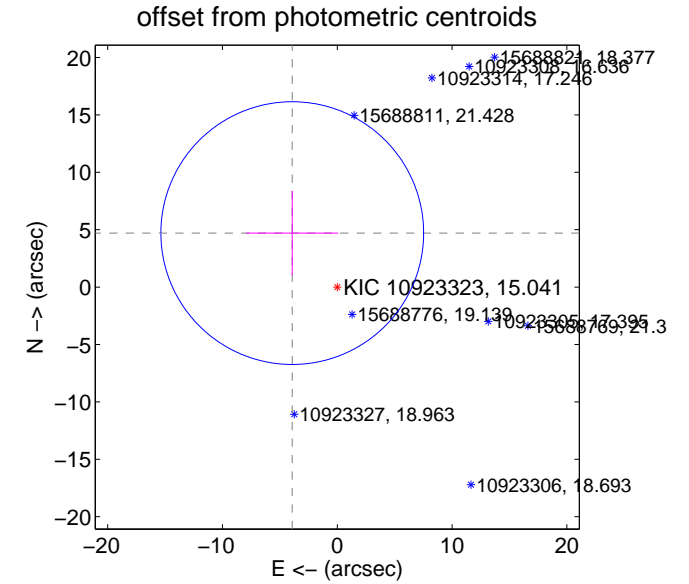
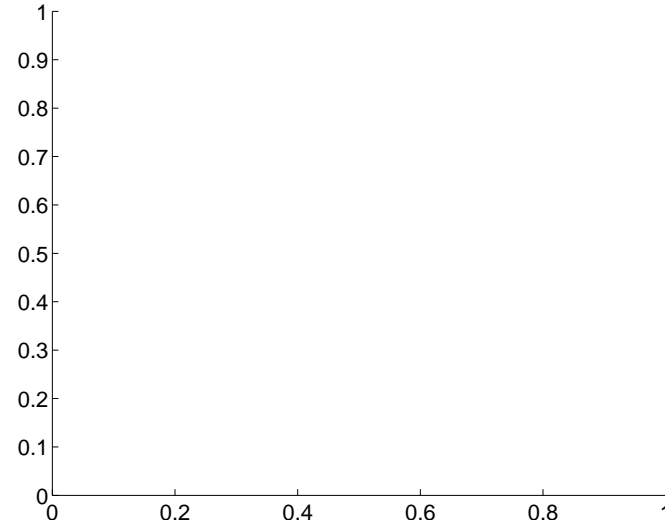
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	6.12 ± 3.81	1.61	3.92 ± 4.00	4.70 ± 3.68

There is no PRF-fit offset from OOT-fit

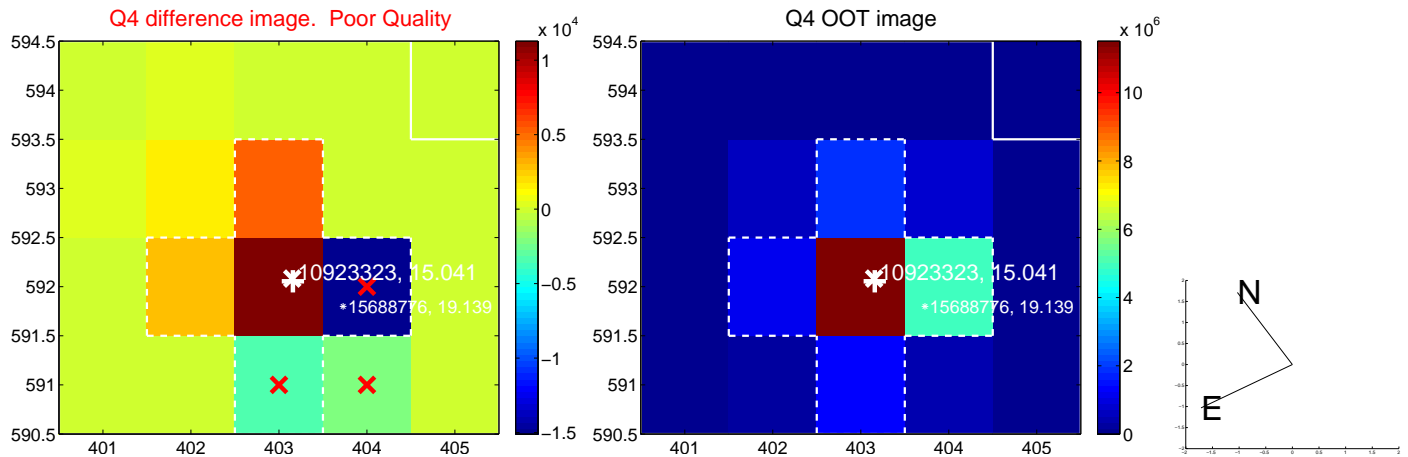
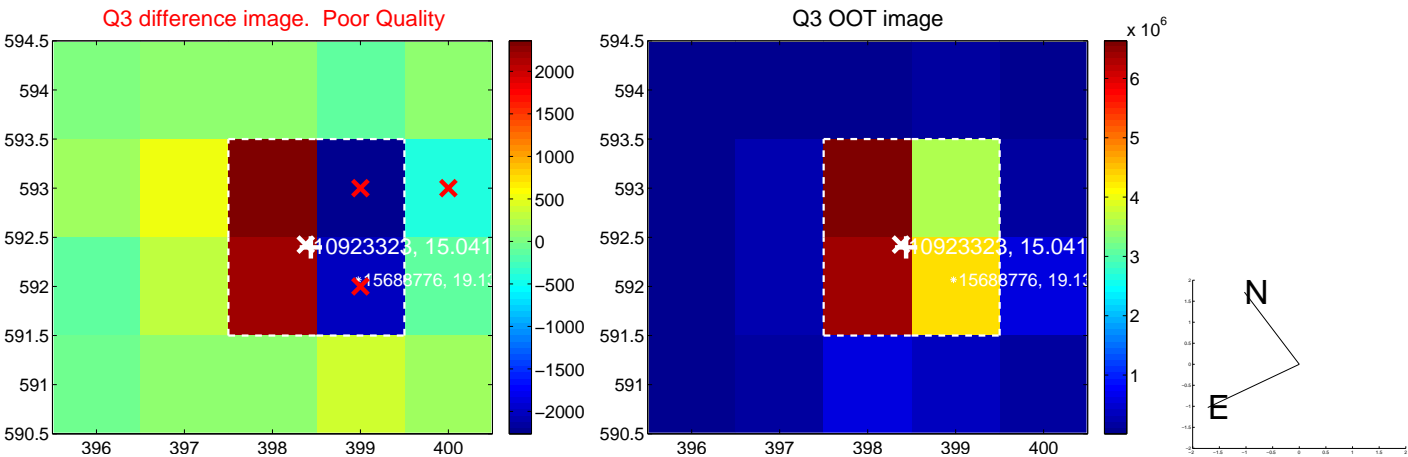
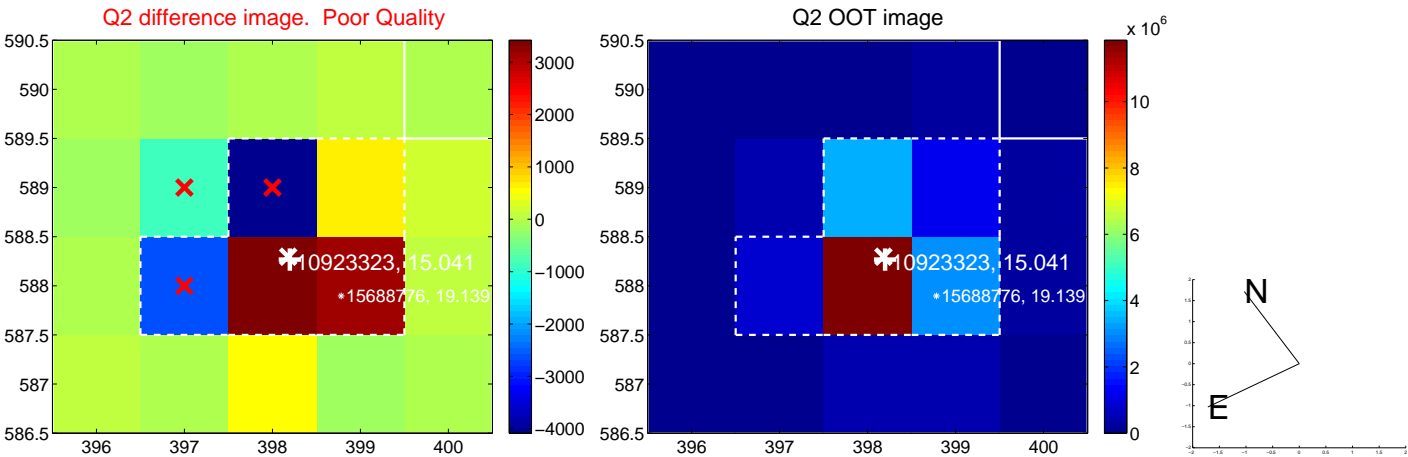
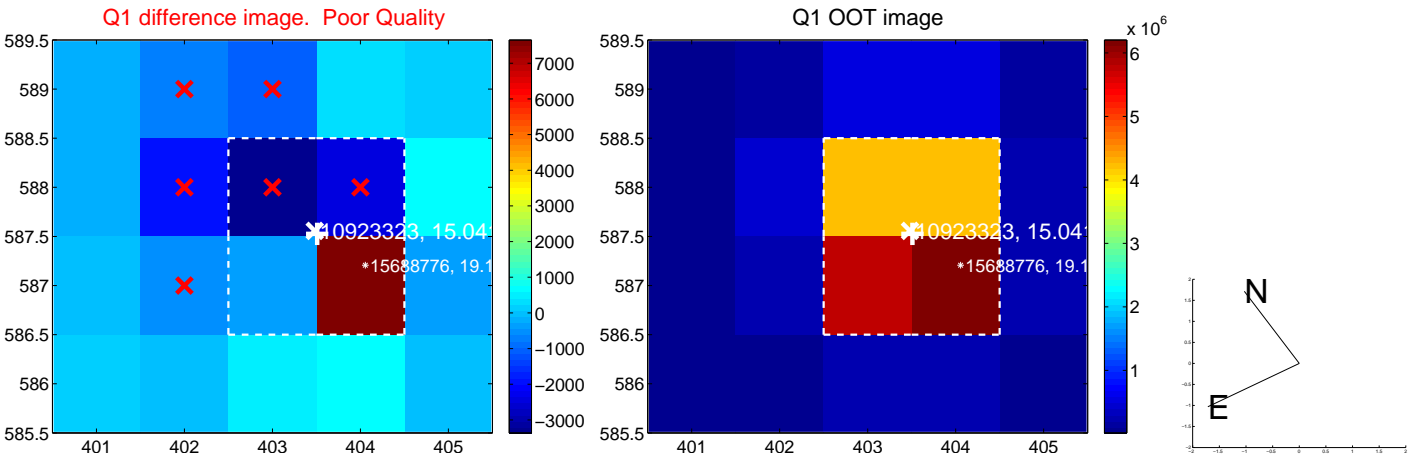


There is no PRF-fit offset from KIC

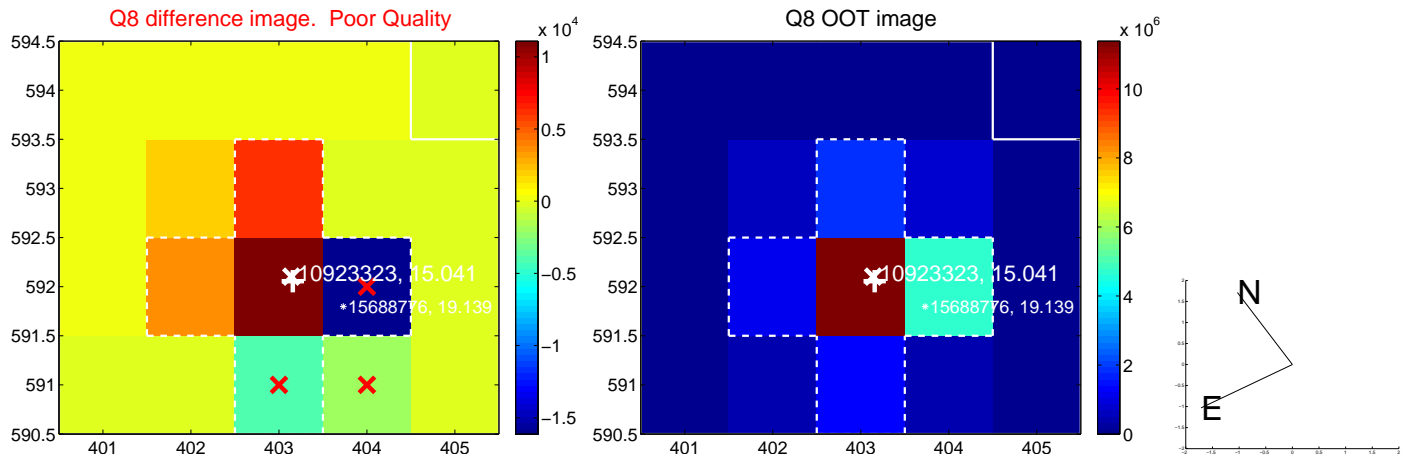
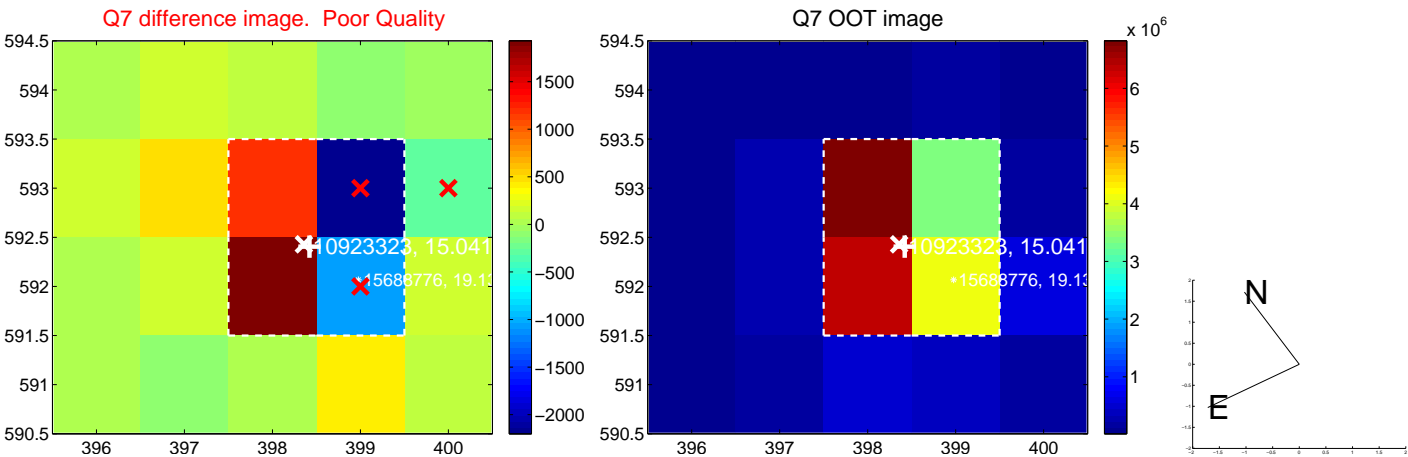
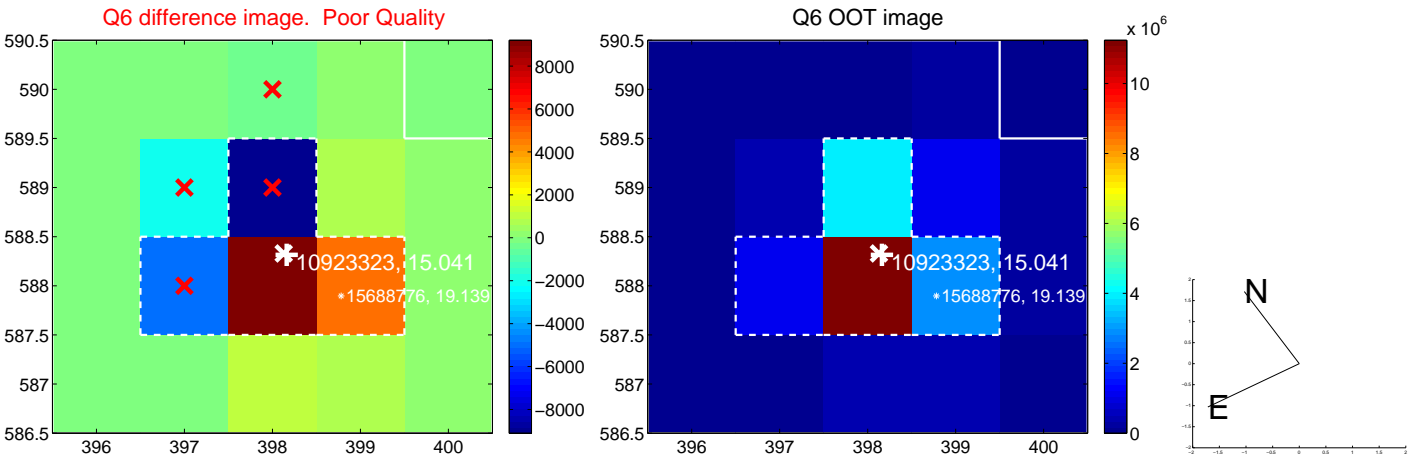
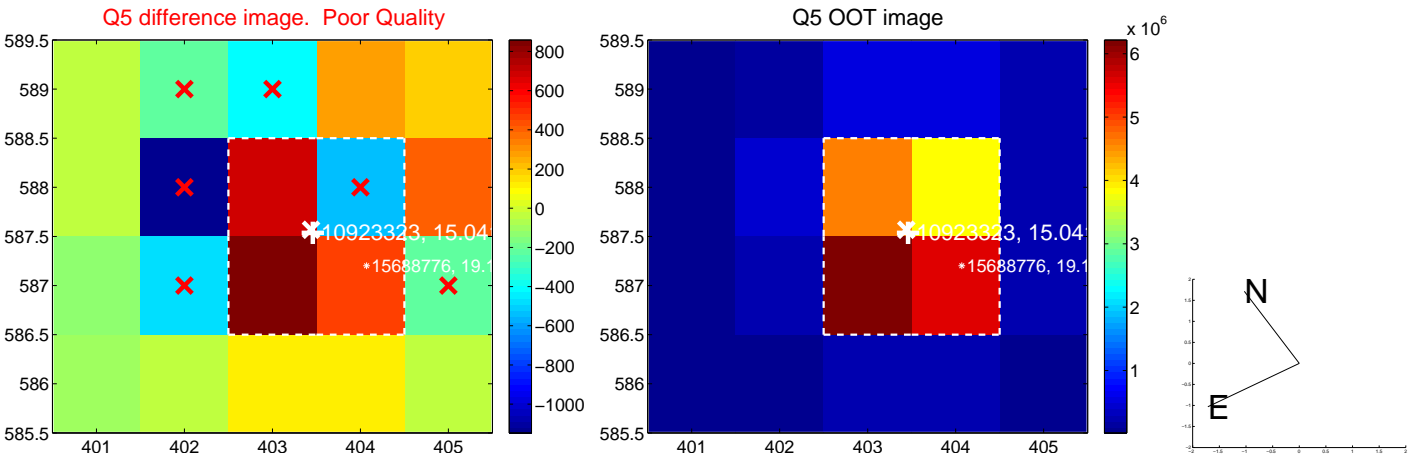


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

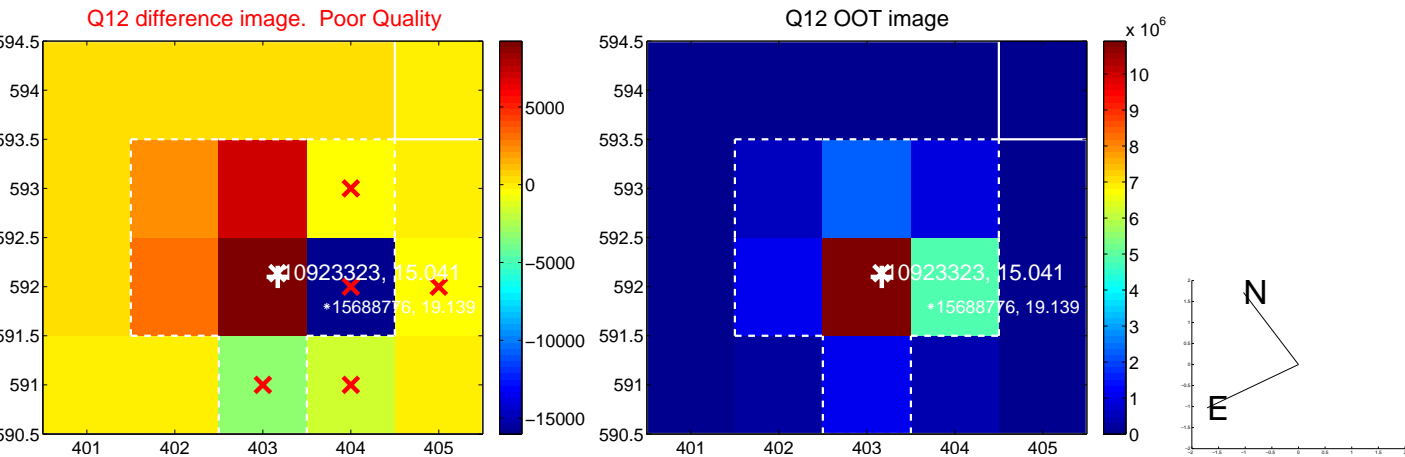
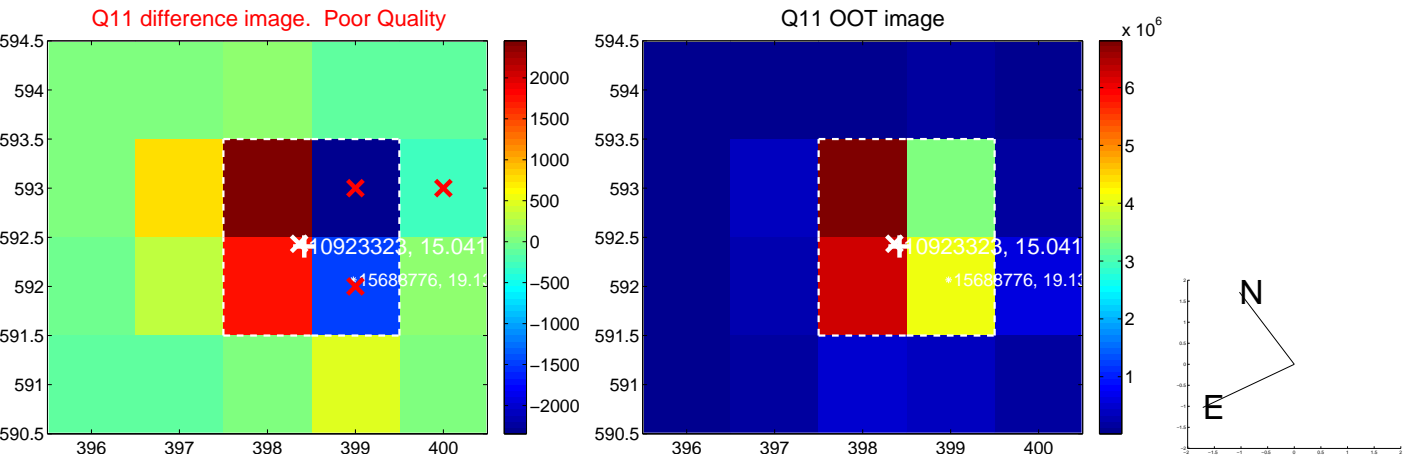
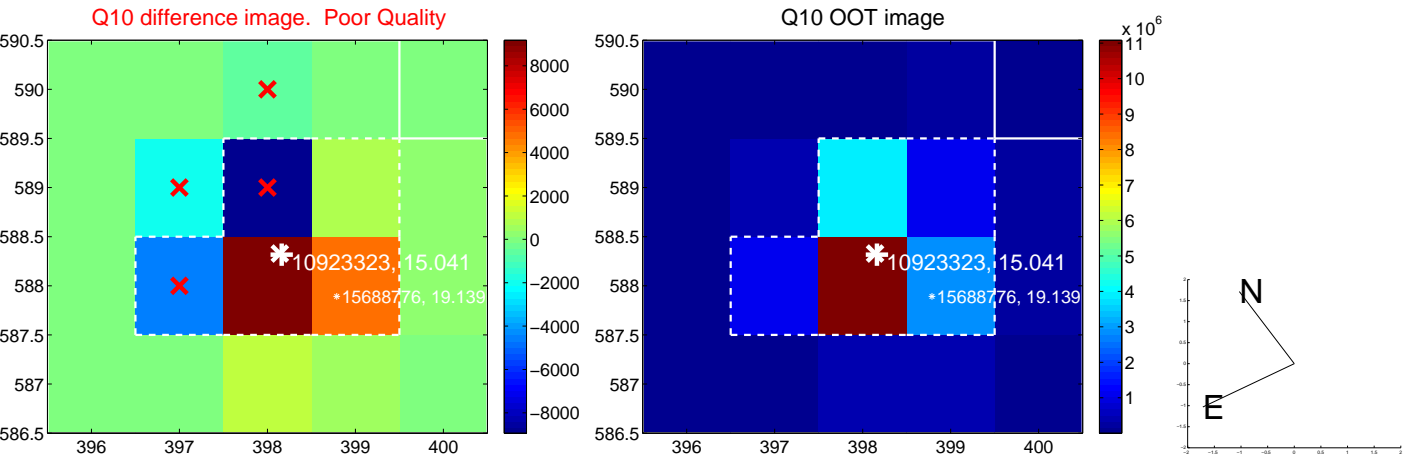
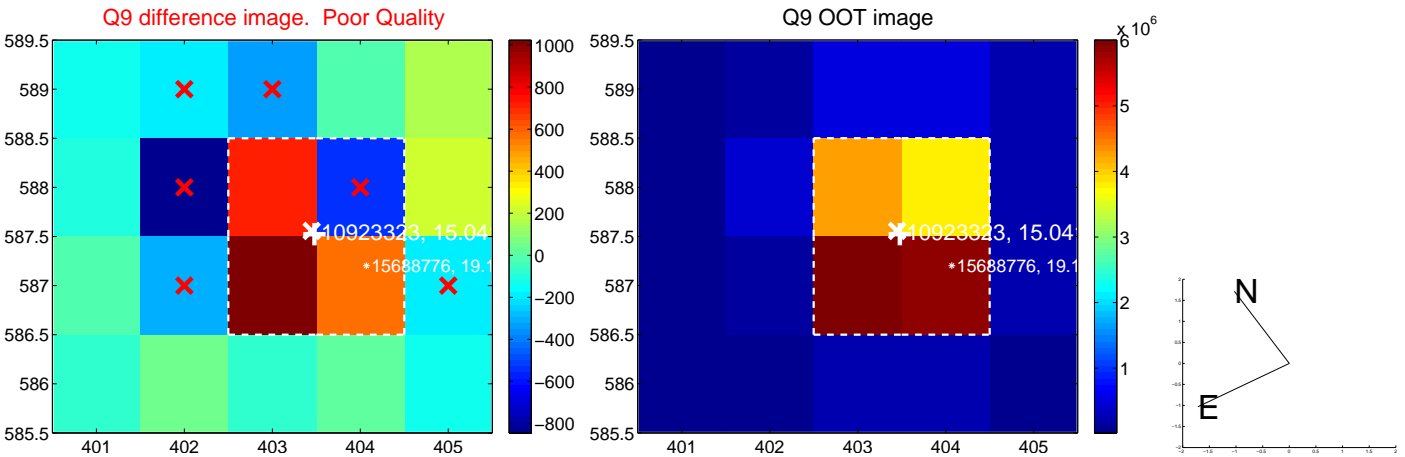
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



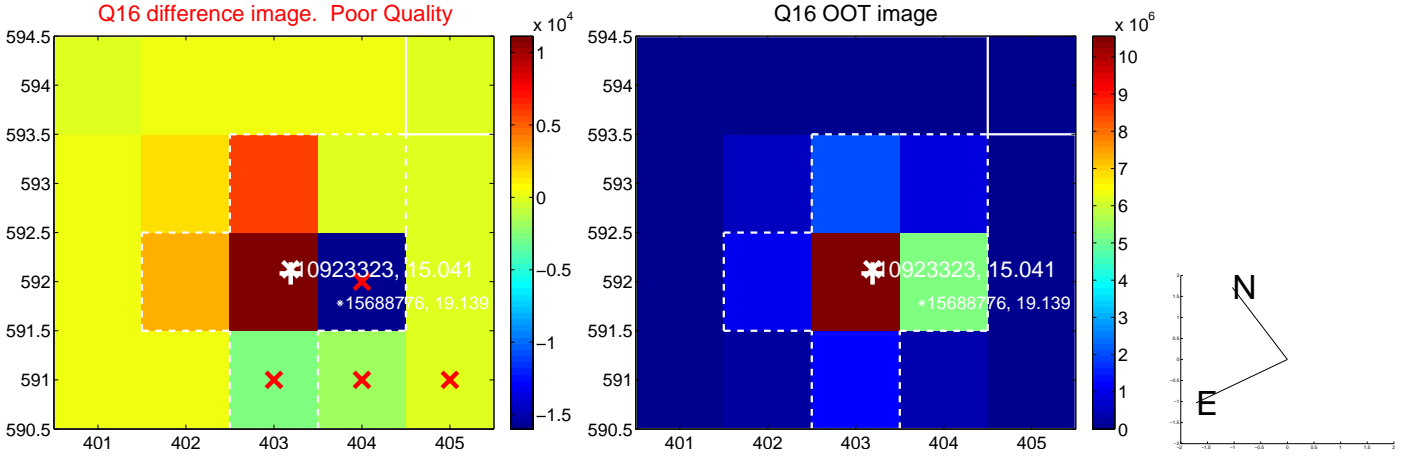
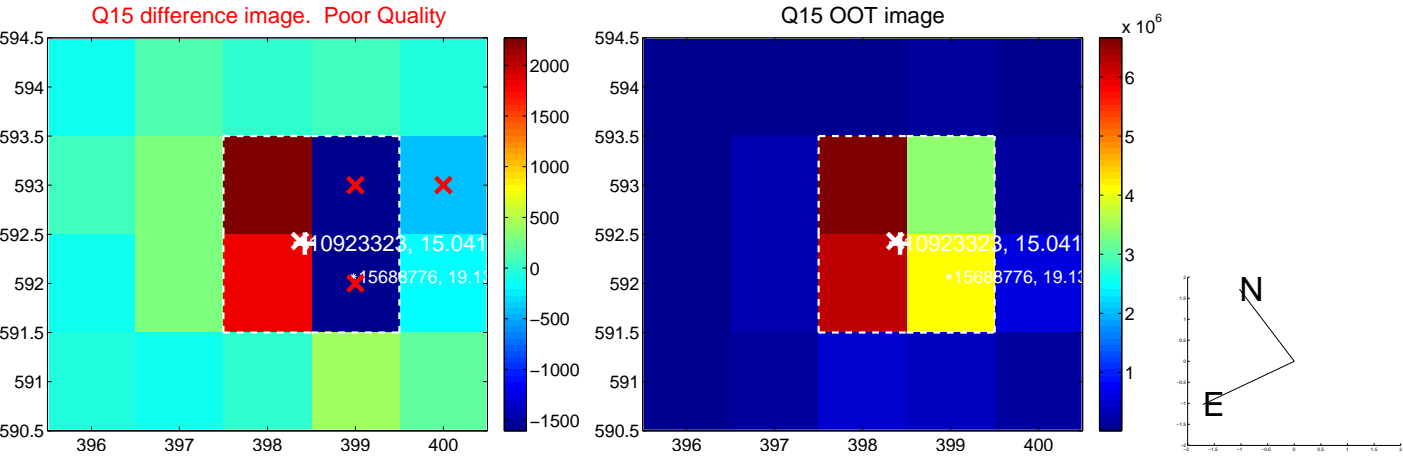
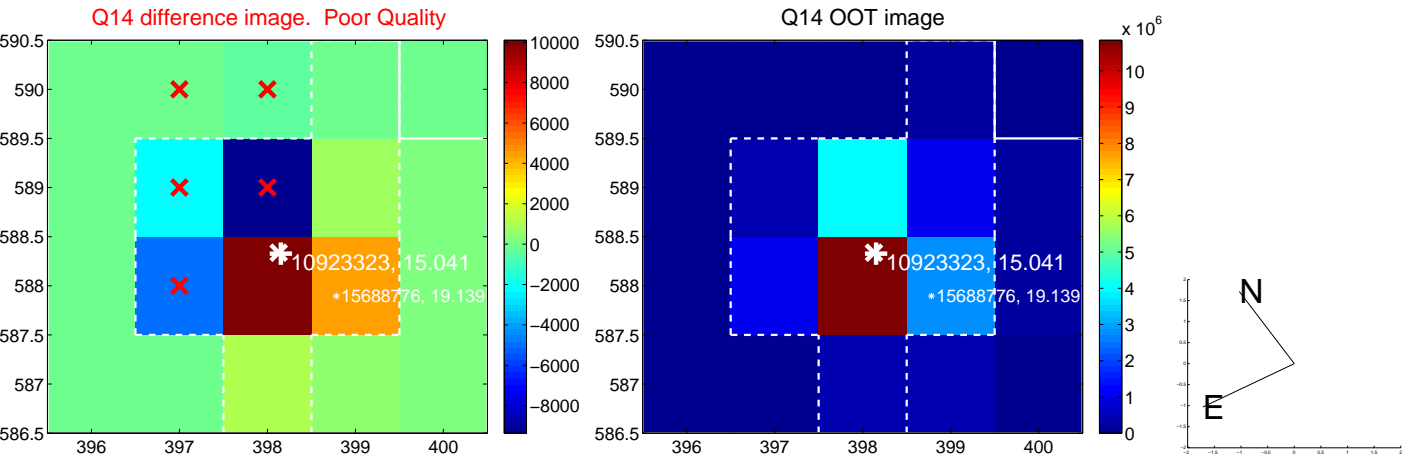
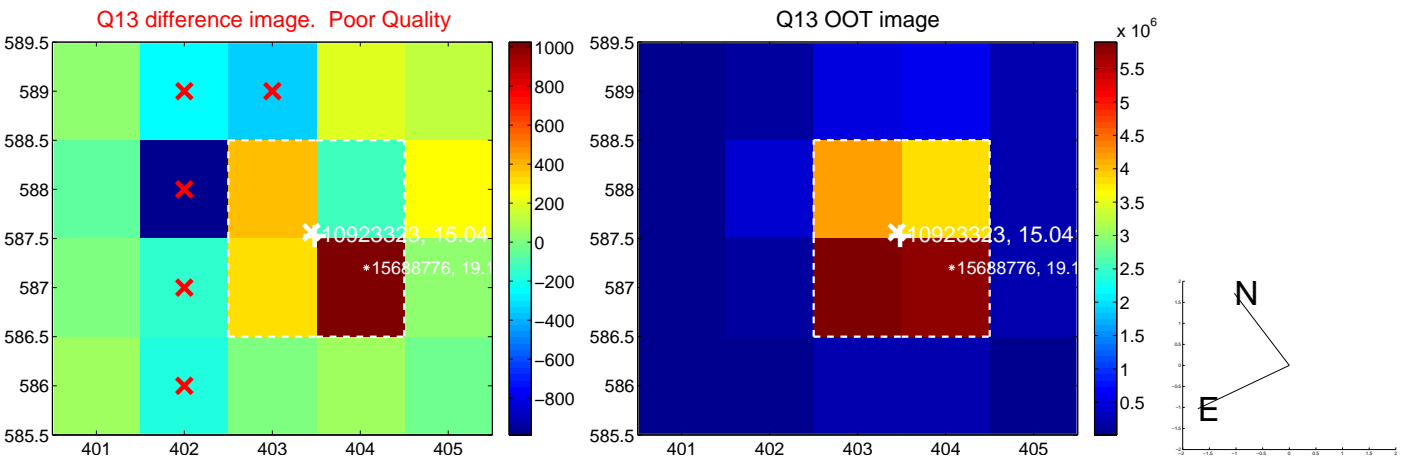
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



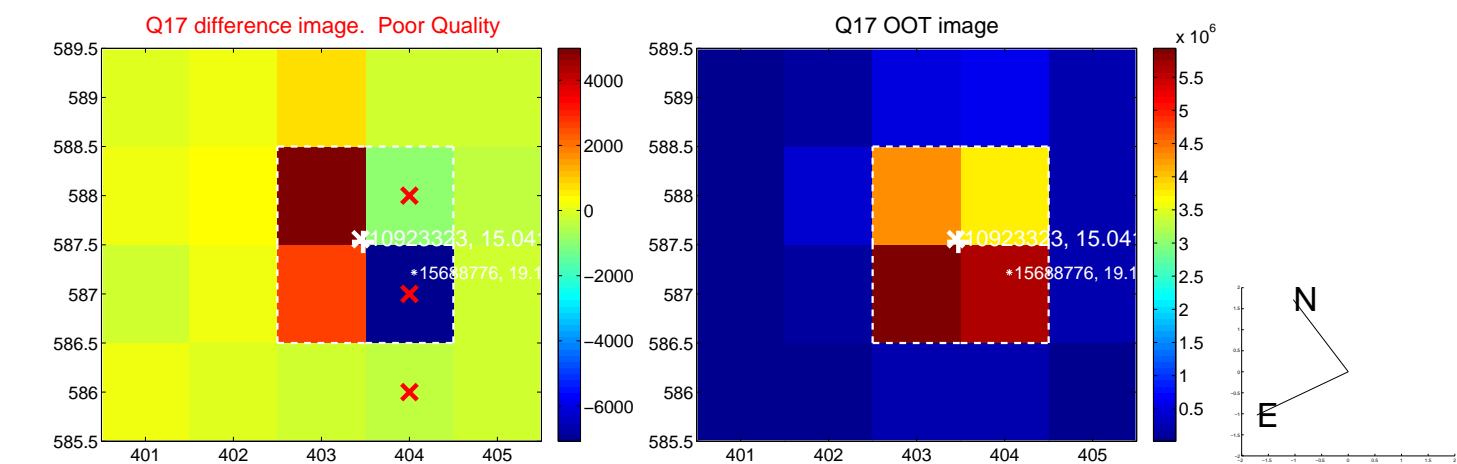
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



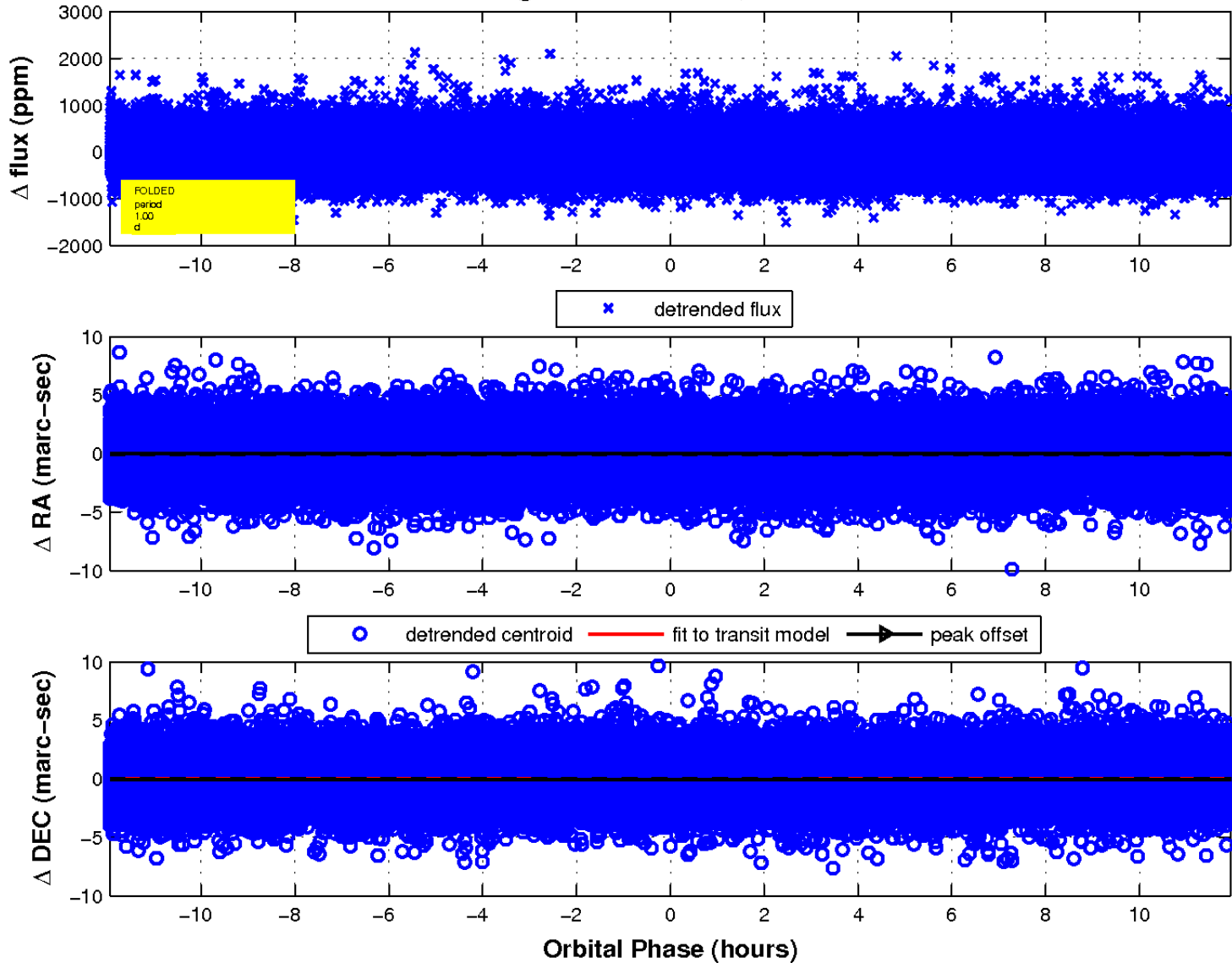
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

