

KIC 006232286

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})
006232286-01	OBS	No	1.124771	132.449062	8.1	4.615	7.9	3.1	2.22	6335	0.68	13086.63

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006232286-01	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.

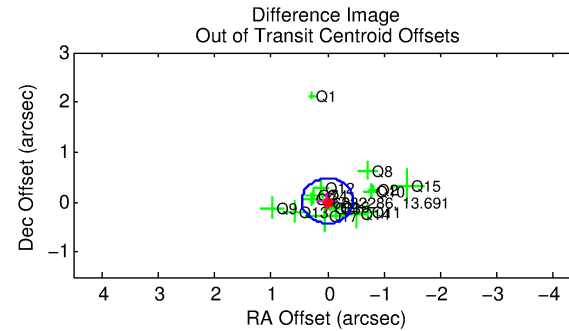
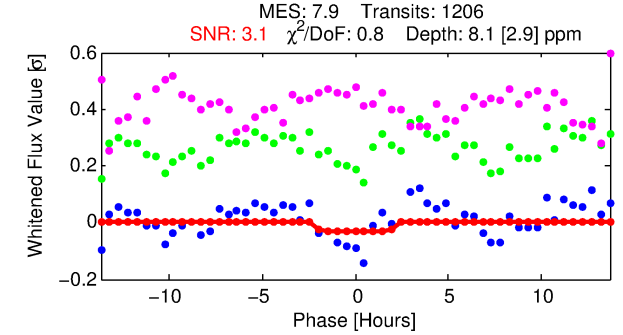
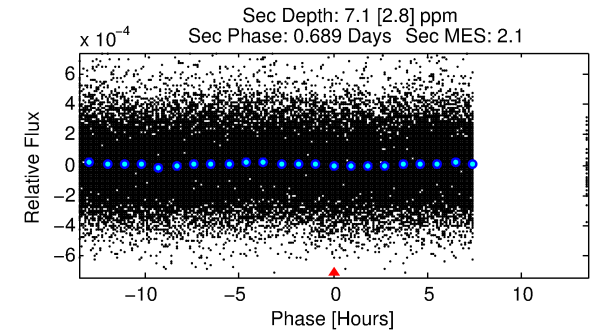
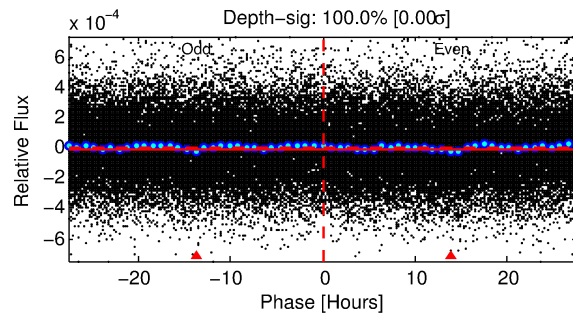
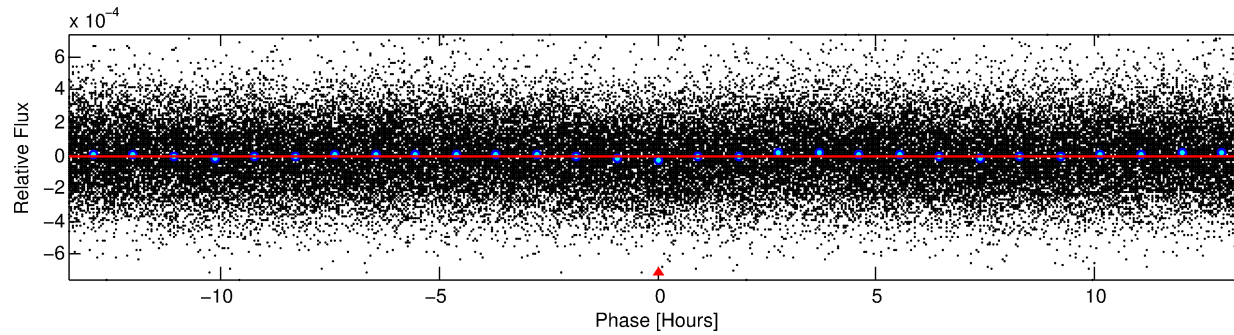
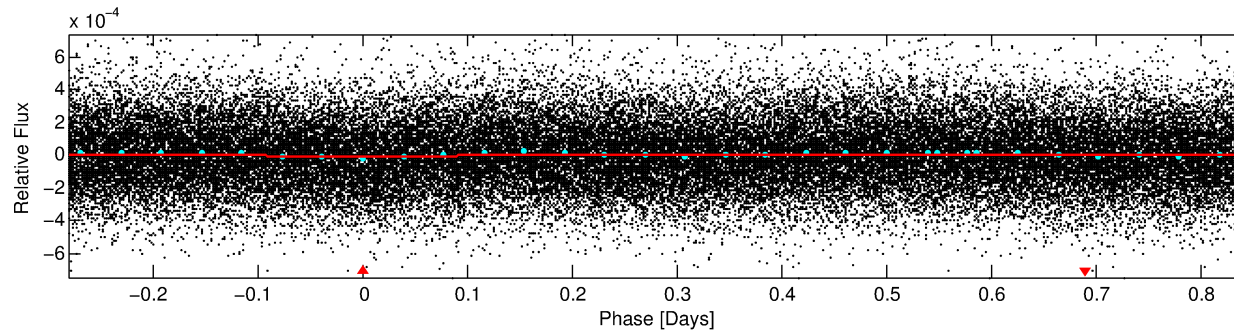
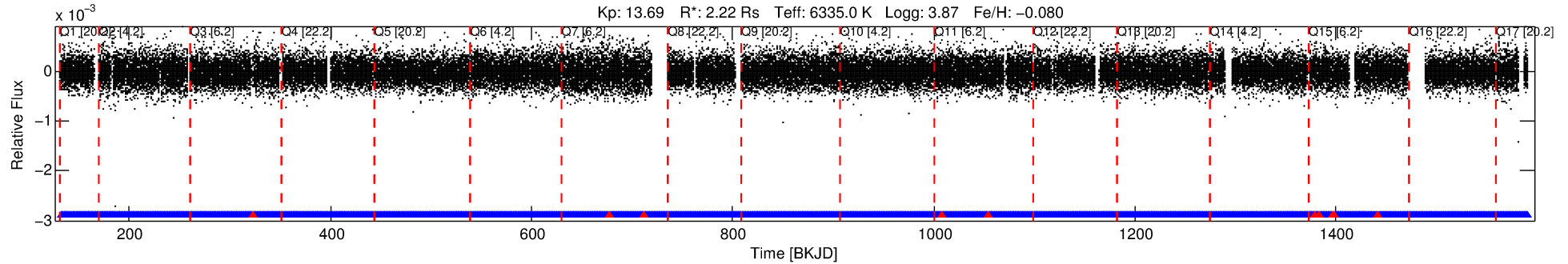
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006232286-01

No Significant Match Found

DV One-Page Summary

KIC: 6232286 Candidate: 1 of 1 Period: 1.125 d



DV Fit Results:

Period = 1.12477 [0.00004] d
Epoch = 132.4491 [0.0147] BKJD
Rp/R* = 0.0028 [0.0013]
a/R* = 1.57 [2.16]
b = 0.70 [1.71]
Seff = 13086.63 [9965.35]
Teq = 2727 [519] K
Rp = 0.68 [0.44] Re
a = 0.0233 [0.0106] AU
Ag = 4.64 [5.90] [0.62σ]
Teffp = 6190 [1602] K [2.06σ]

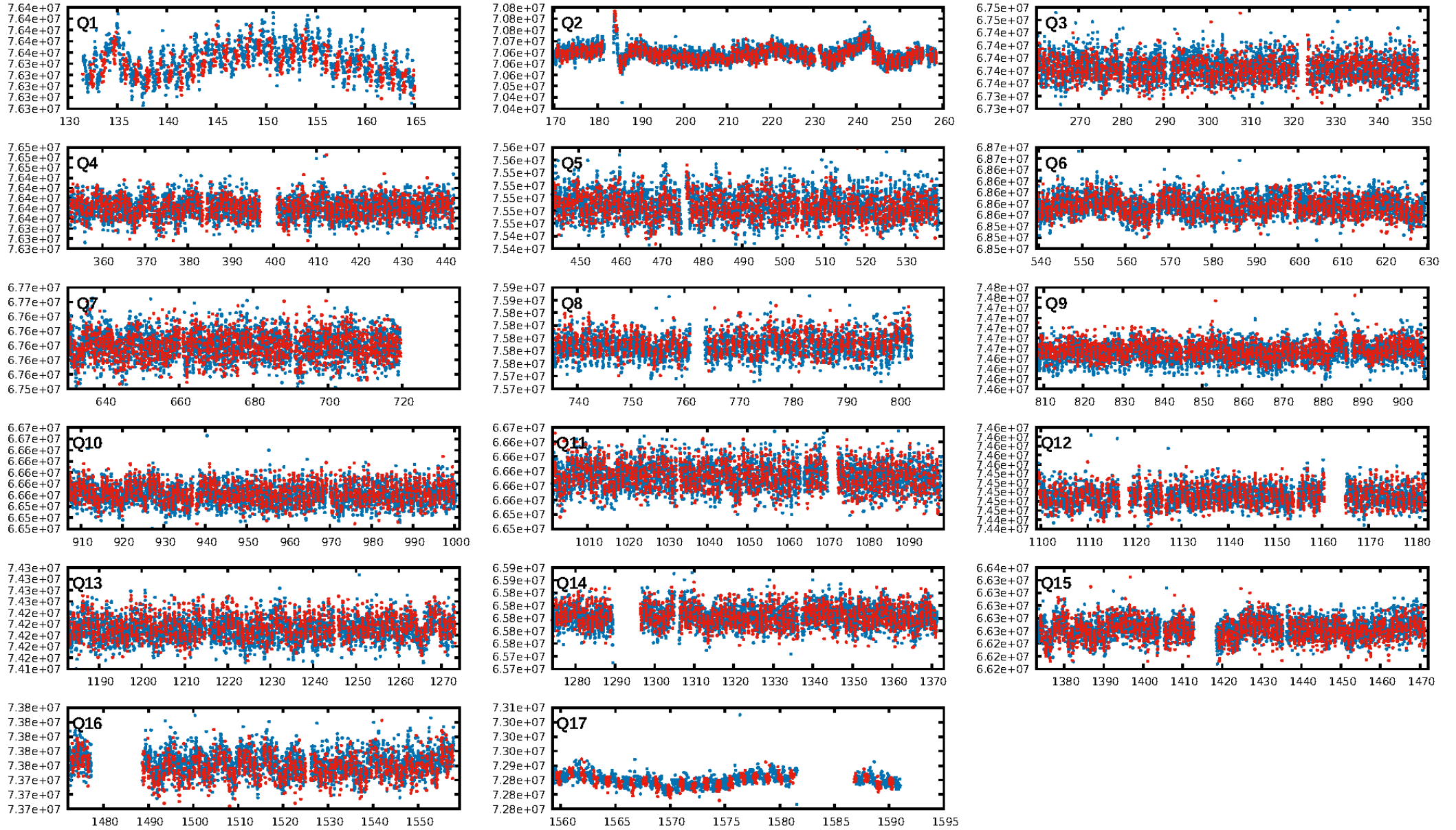
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.72e-13
RollingBand-fgt: 0.99 [1142/1152]
GhostDiagnostic-chr: 4.364
Centroid-sig: 0.4%
Centroid-so: 7.053 arcsec [2.06σ]
OotOffset-rm: 0.026 arcsec [0.17σ]
KicOffset-rm: 0.046 arcsec [0.30σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 1.00 [17/17]

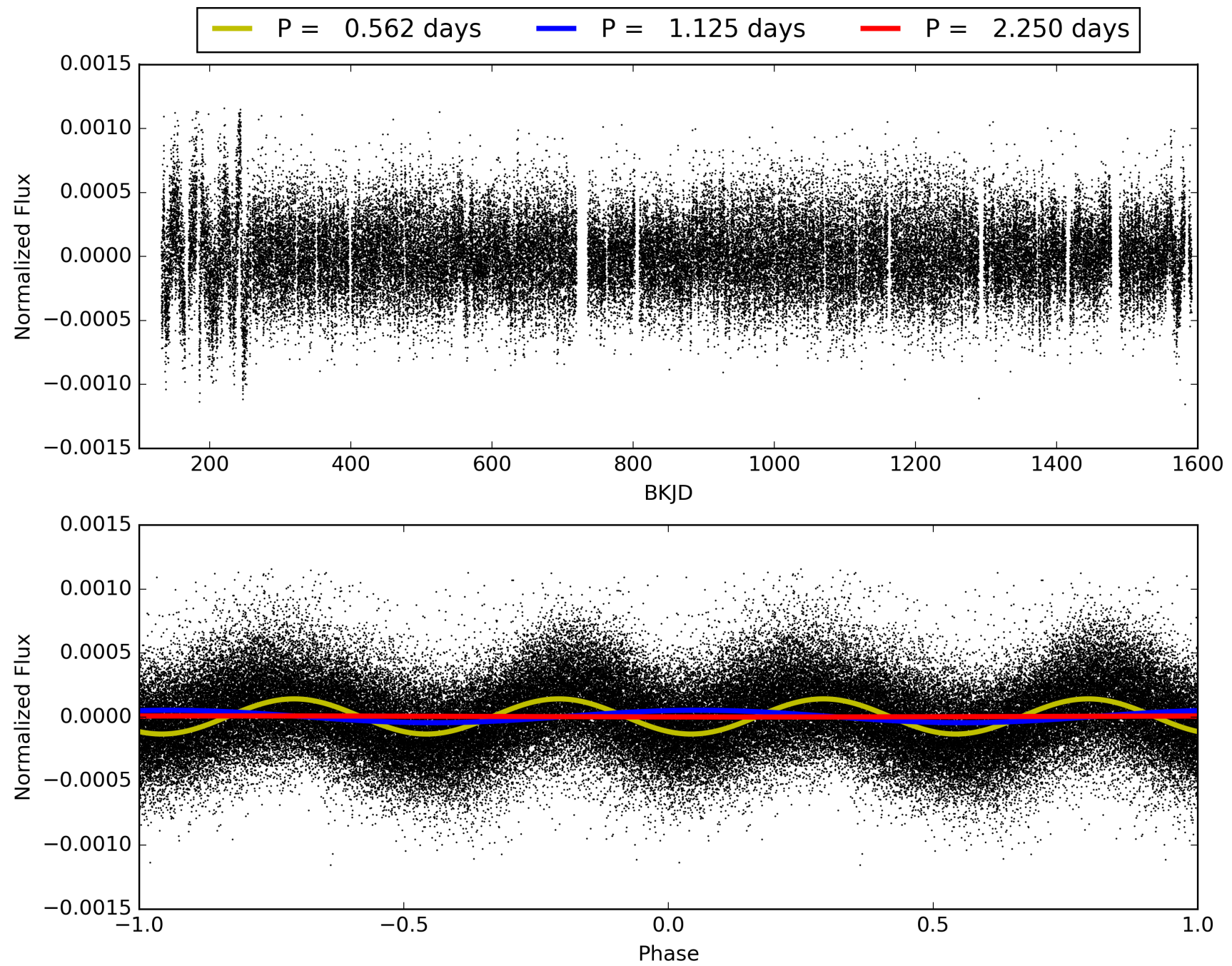
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 00:25:02 Z

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

TCE 006232286-01, PDC Light Curves

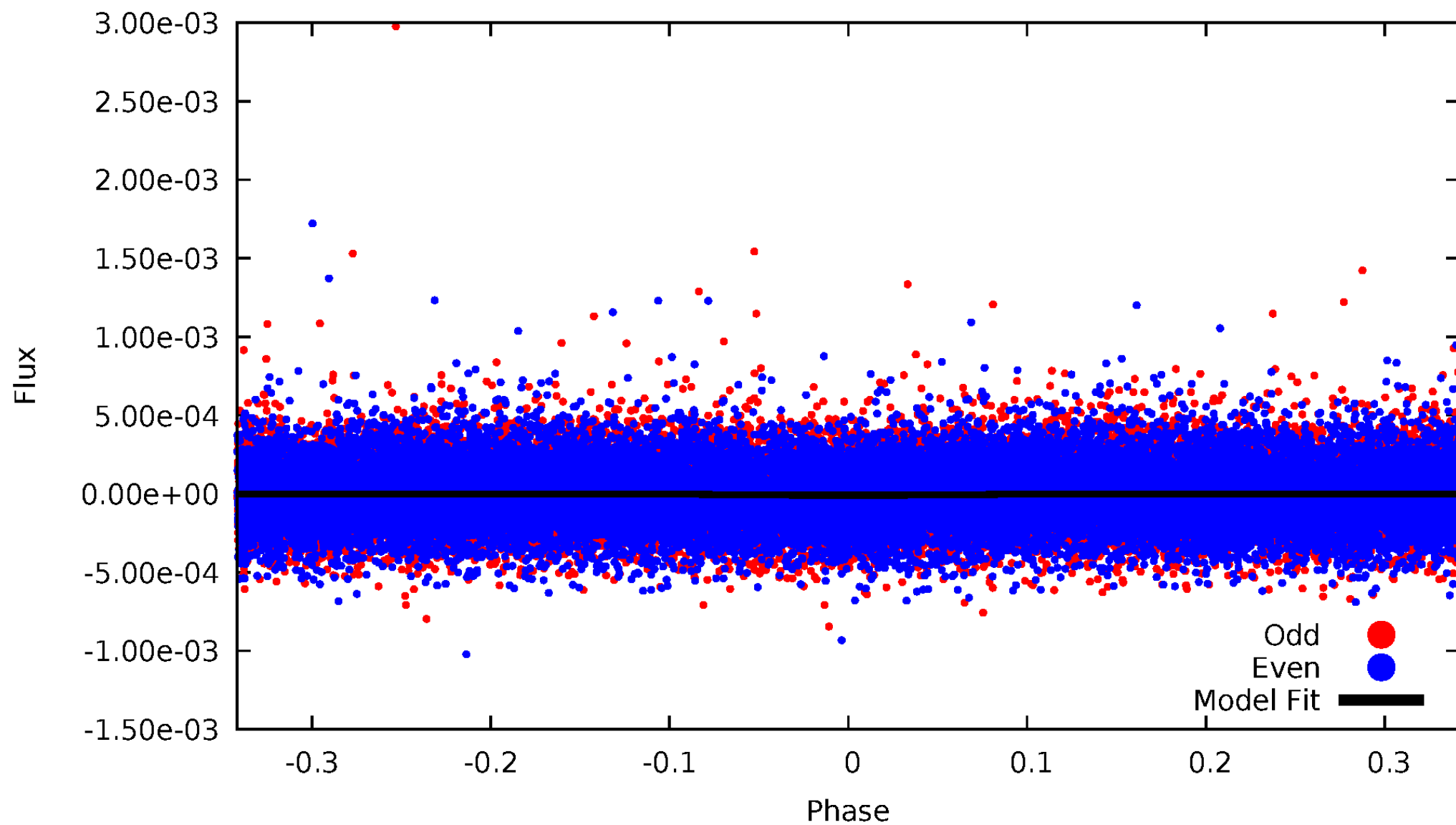


TCE 006232286-01



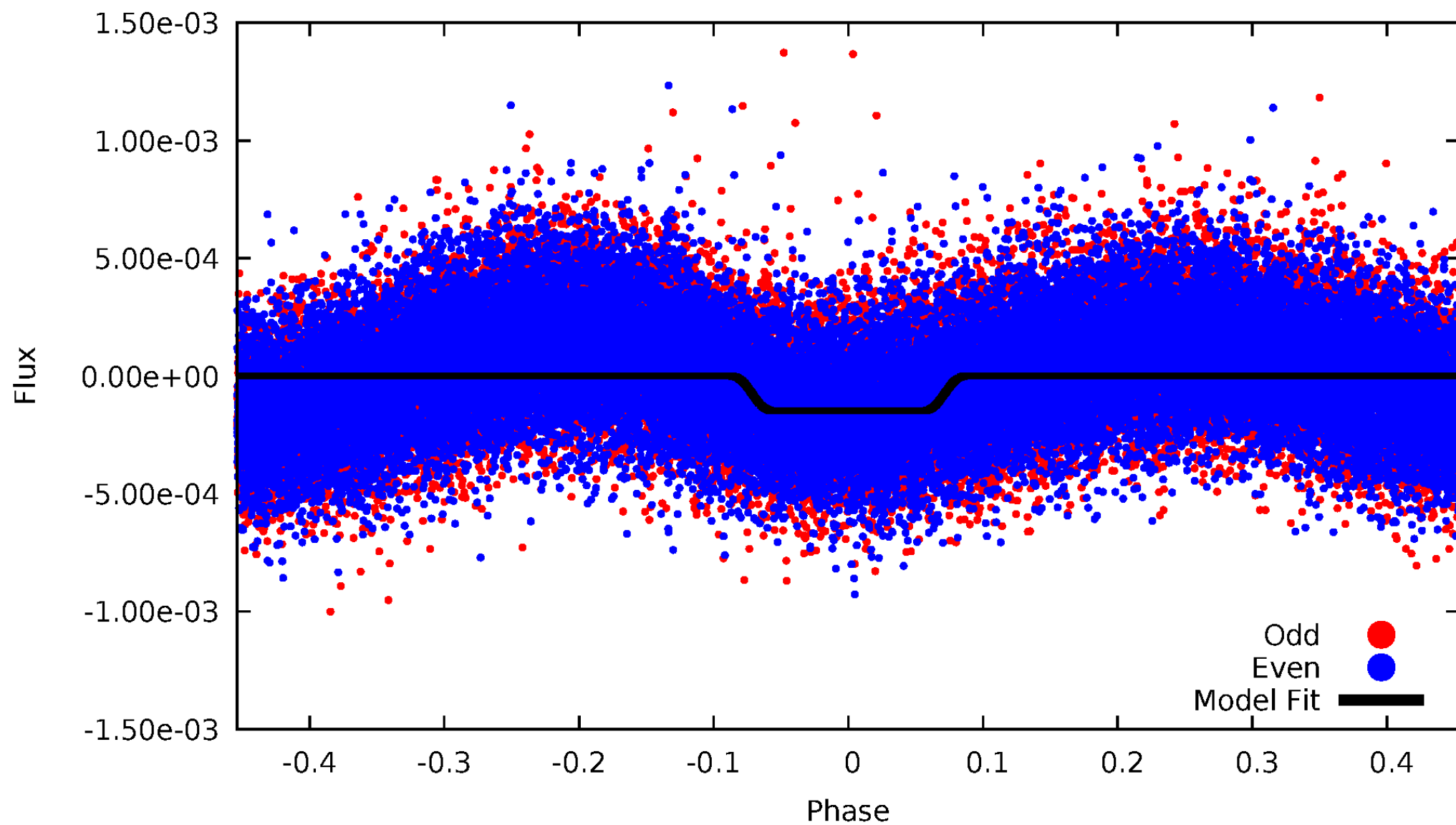
DV Odd/Even

TCE 006232286-01



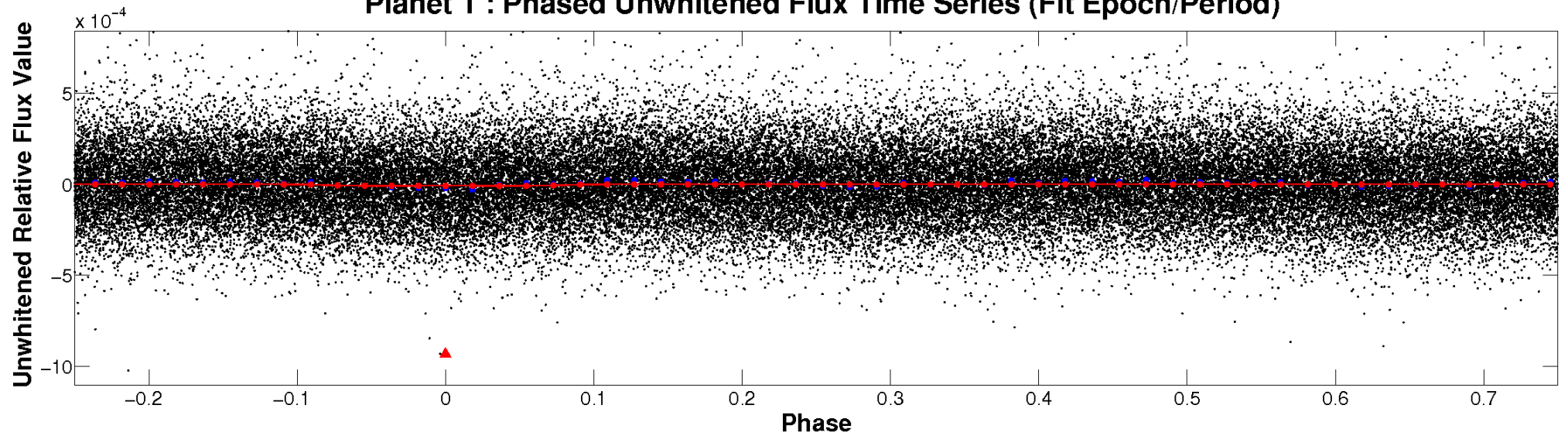
ALT Odd/Even

TCE 006232286-01

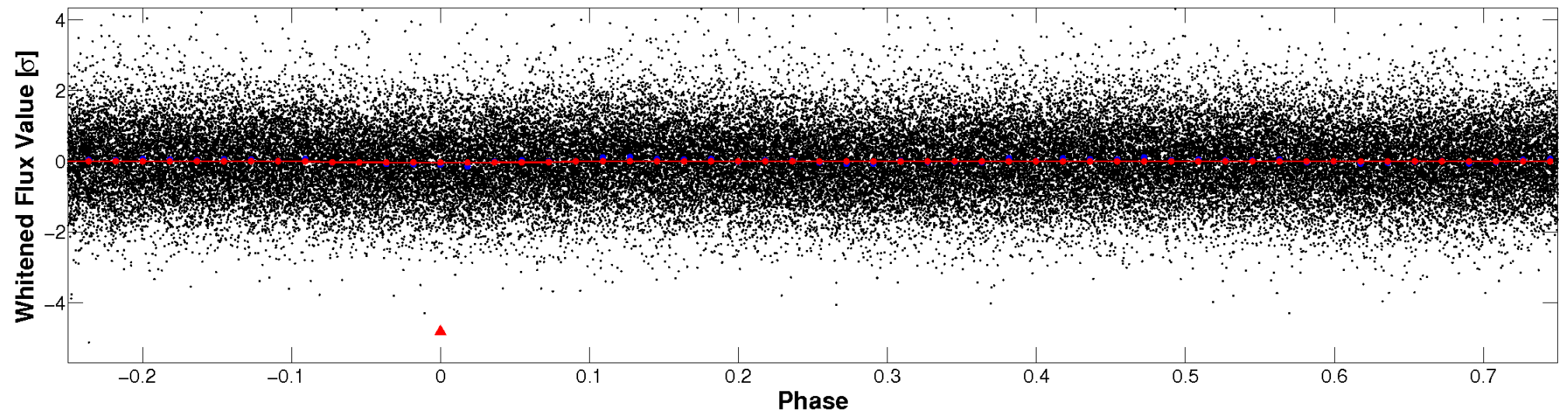


Non-Whitened Vs. Whitened Light Curve

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

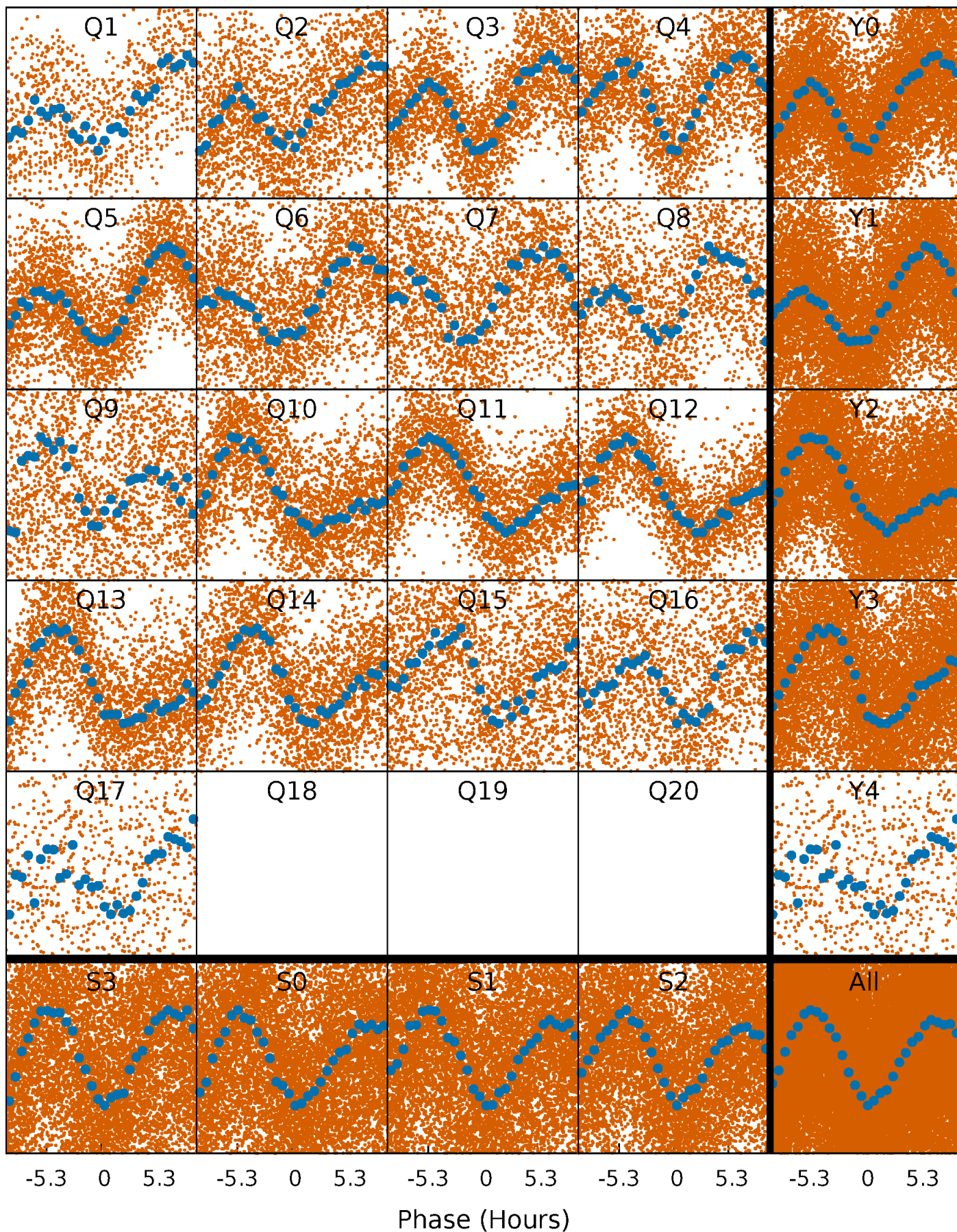


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



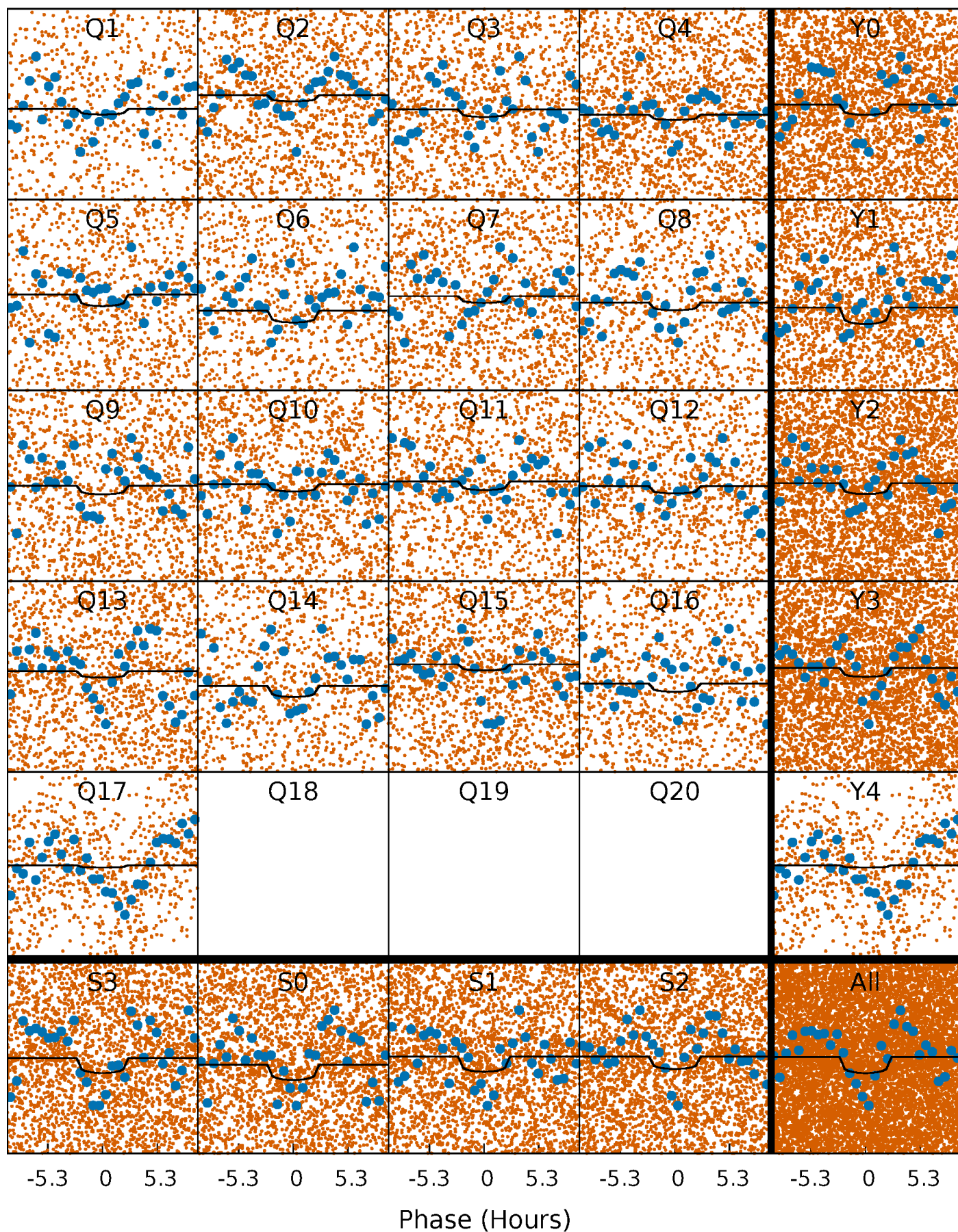
PDC Quarter-Phased Transit Curves

TCE 006232286-01 P= 1.124771 Days $T_0=132.449062$ (BKJD)



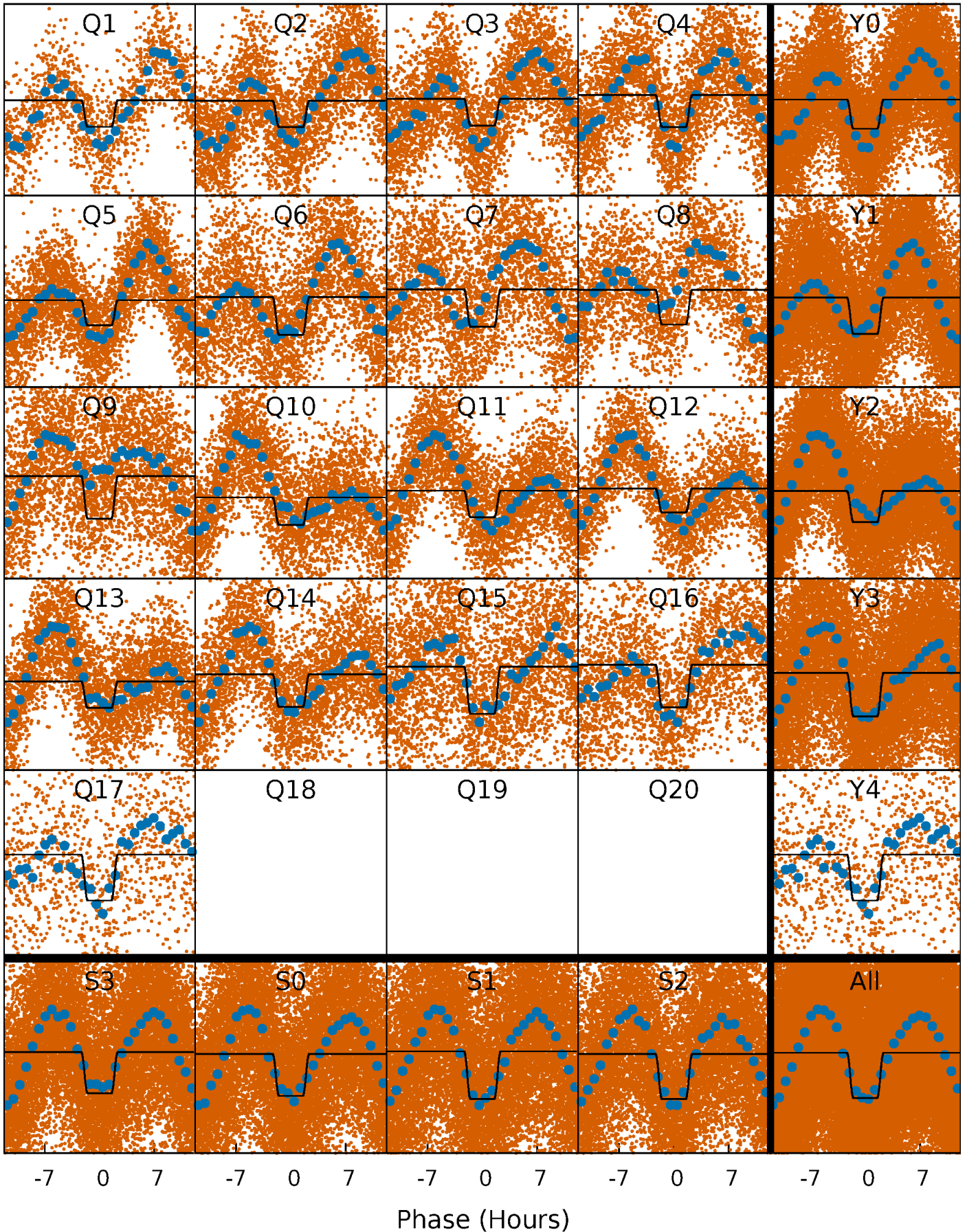
DV Quarter-Phased Transit Curves

TCE 006232286-01 P= 1.124771 Days $T_0=132.449062$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

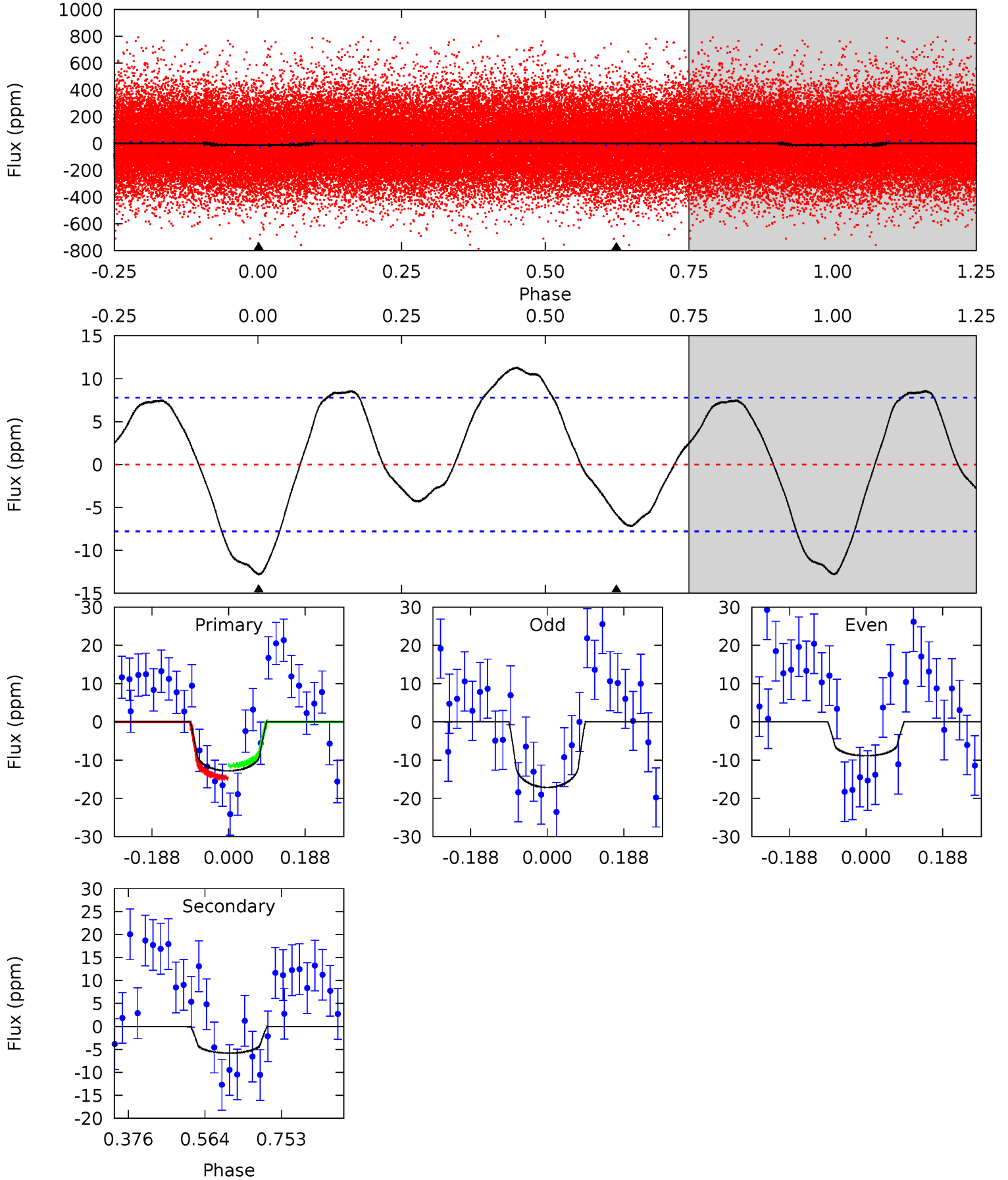
TCE 006232286-01 P= 1.124846 Days $T_0=132.432016$ (BKJD)



DV Model-Shift Uniqueness Test

006232286-01, P = 1.124771 Days, E = 131.324291 Days

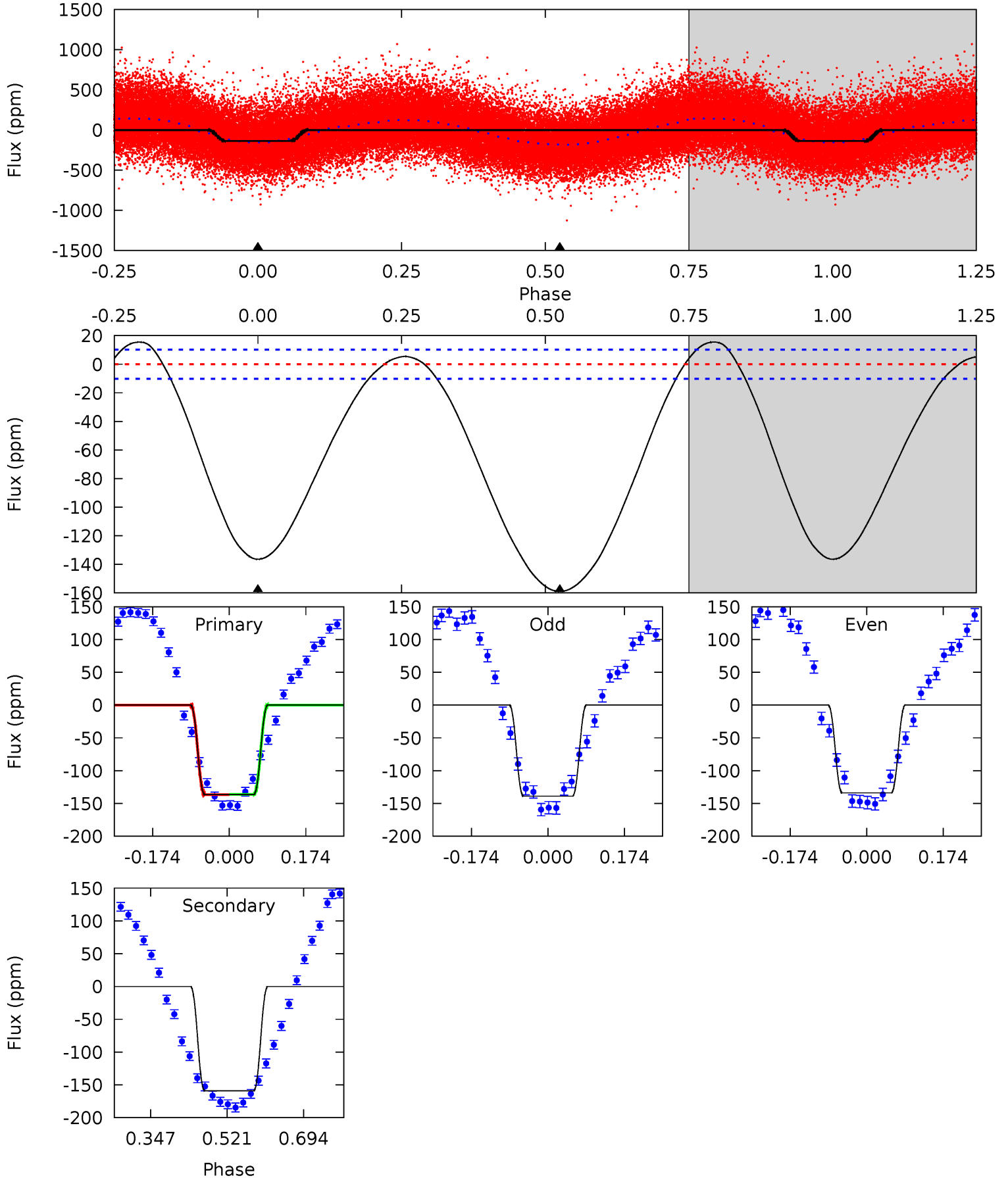
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.28	3.30	0	0	4.43	1.32	2.77	7.28	7.28	3.30	3.30	2.36	0.92	0.47	0.91



Alt Model-Shift Uniqueness Test

006232286-01, P = 1.124846 Days, E = 131.307170 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
59.5	69.2	0	0	4.45	1.36	5.96	59.5	59.5	69.2	69.2	1.08	0.97	0.09	0.08



Stellar Parameters For KIC 006232286

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6335^{+194}_{-213}	$3.871^{+0.448}_{-0.112}$	$-0.080^{+0.250}_{-0.300}$	$2.221^{+0.535}_{-0.993}$	$1.338^{+0.205}_{-0.283}$	$0.172^{+0.647}_{-0.069}$
	+3%/-3%	+12%/-3%	+312%/-375%	+24%/-45%	+15%/-21%	+376%/-40%
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 006232286-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-6 ± 2	$0.60^{+0.31}_{-0.30}$	3688^{+276}_{-453}	5706^{+2699}_{-1016}	$4.664^{+13.300}_{-2.762}$
Alt.	-159 ± 2	$2.76^{+0.60}_{-0.71}$	3689^{+296}_{-436}	6372^{+478}_{-410}	$6.389^{+4.585}_{-2.052}$

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 $A_{\text{obs}} \gg 1.0$

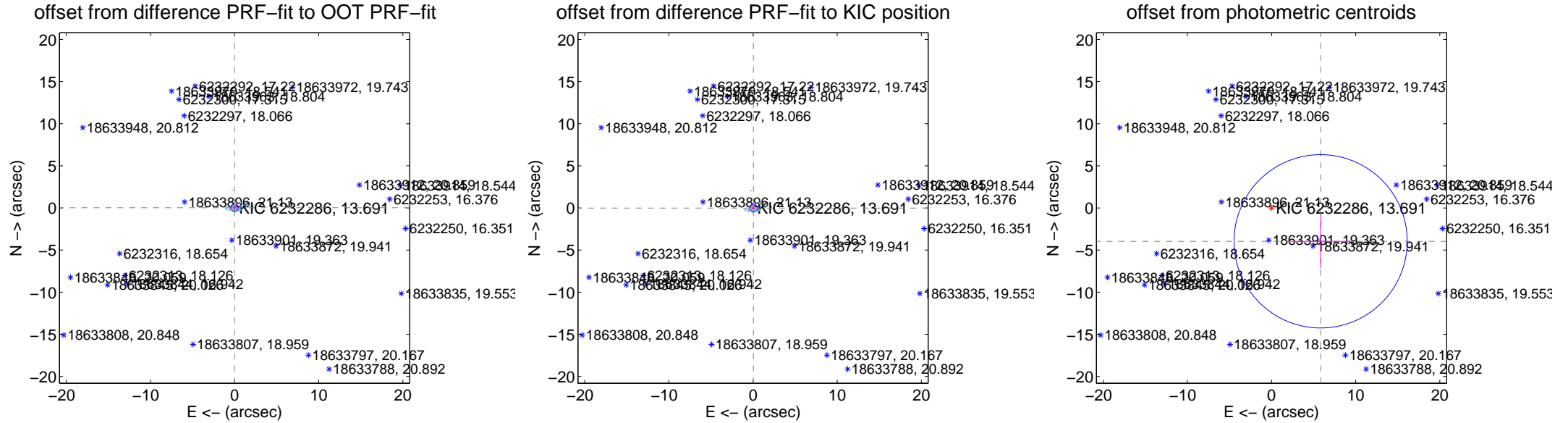
DV Centroid Data

Supplemental centroid analysis for 006232286-01. Kepler magnitude: 13.69. Transit SNR 3.08

There are 16 quarters with good PRF difference image offsets

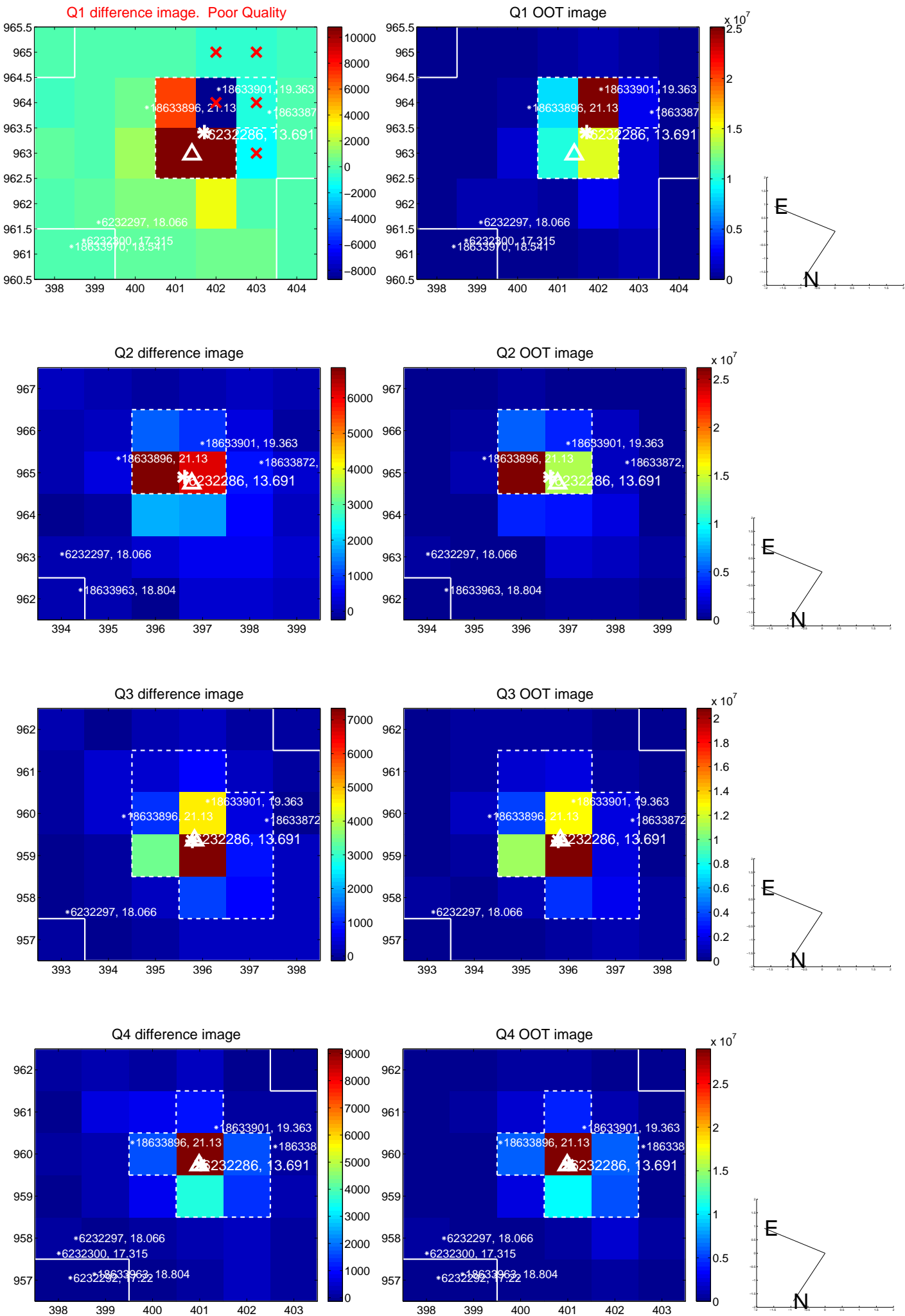
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.026 ± 0.151	0.17	0.006 ± 0.161	0.025 ± 0.151
PRF-fit source offset from KIC position	0.046 ± 0.151	0.30	-0.044 ± 0.151	-0.013 ± 0.144
photometric centroid source offset	7.05 ± 3.43	2.06	-5.84 ± 3.54	-3.96 ± 3.17

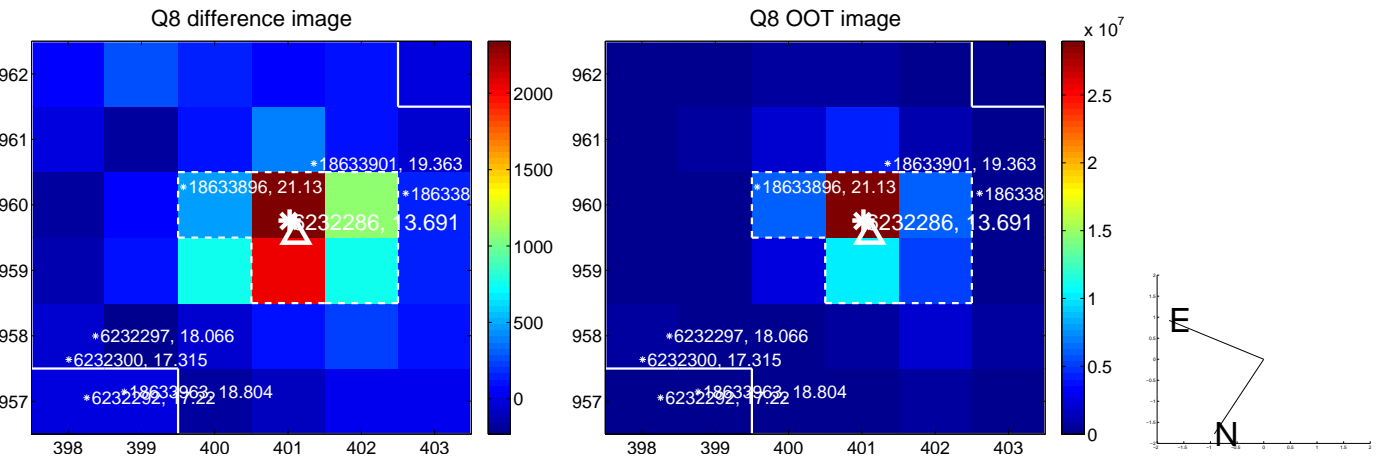
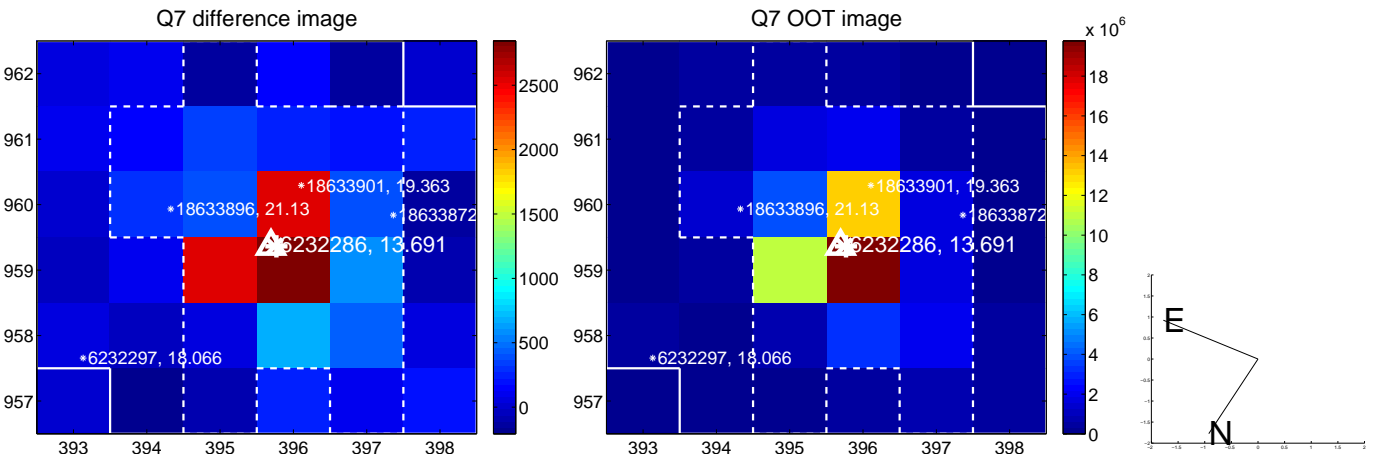
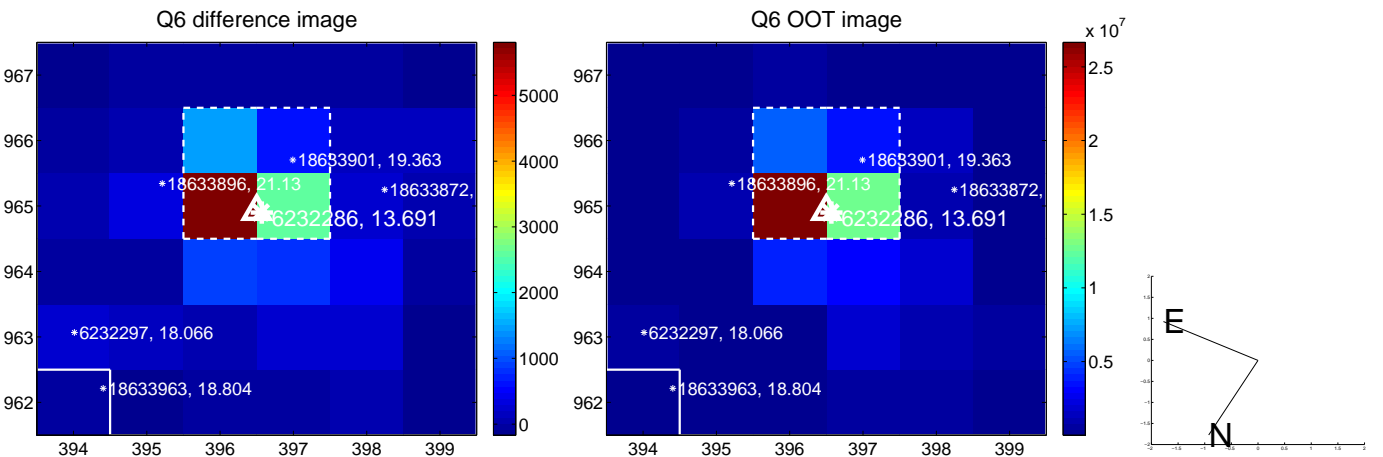
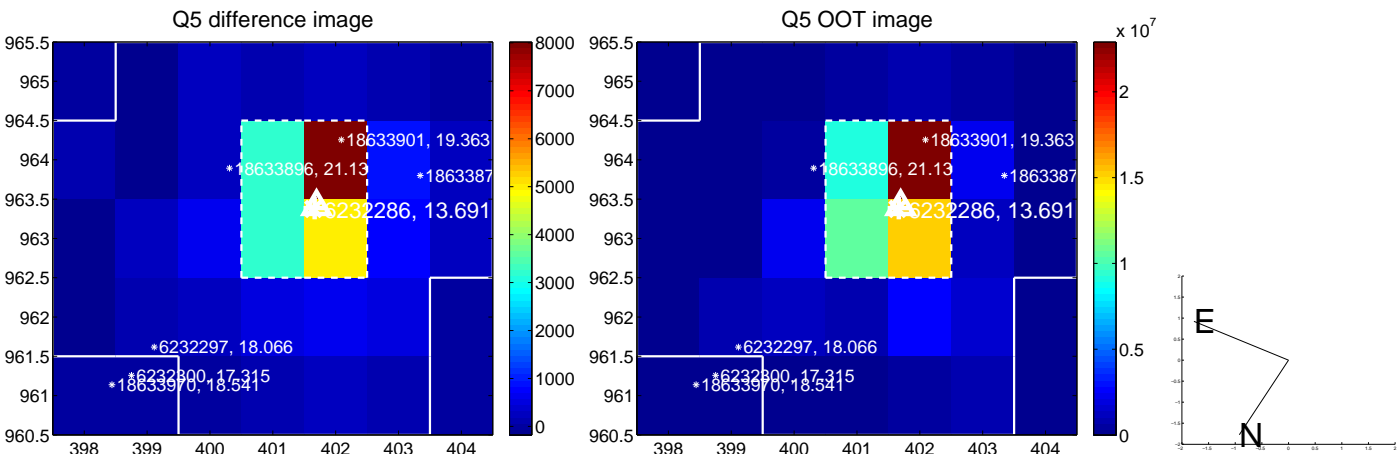


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

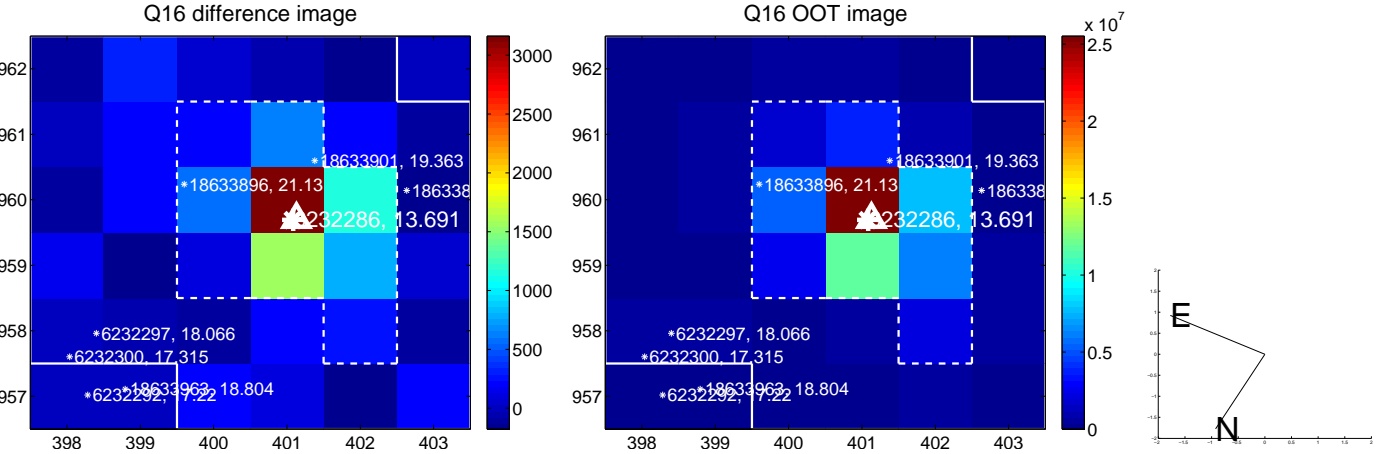
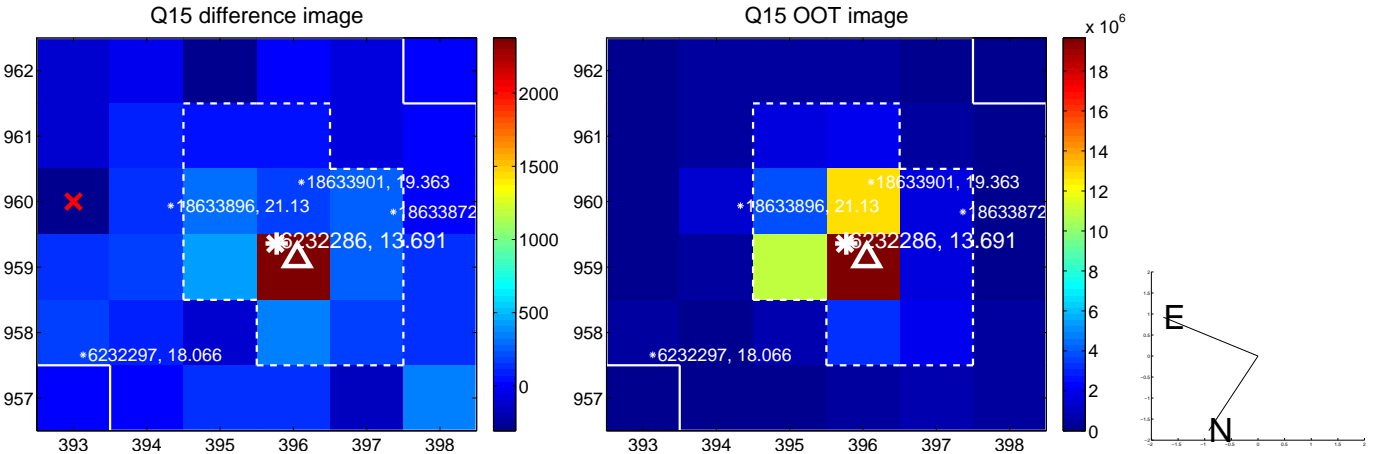
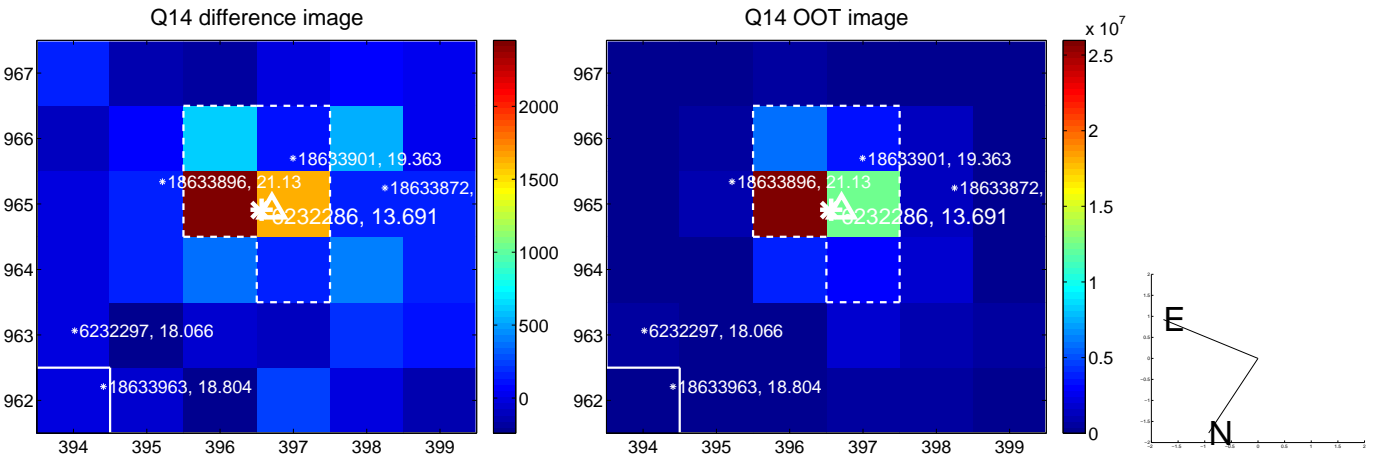
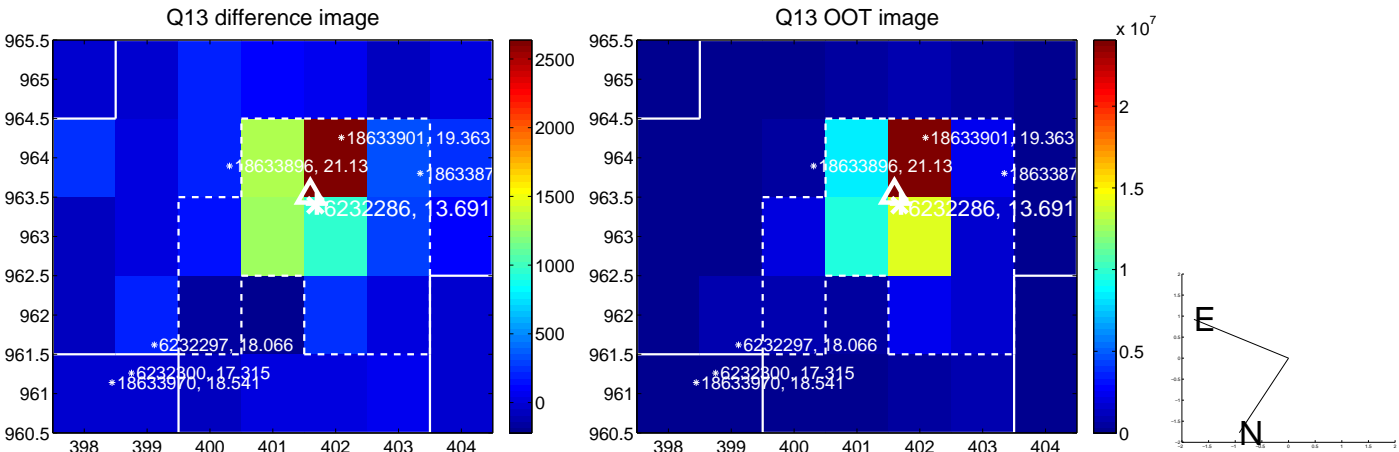
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



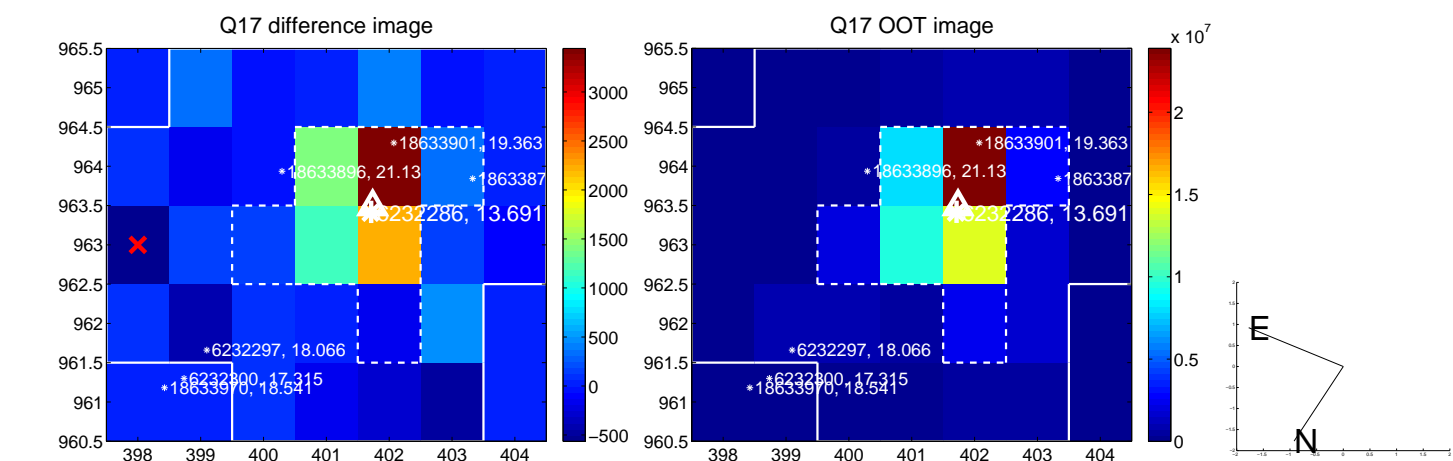
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



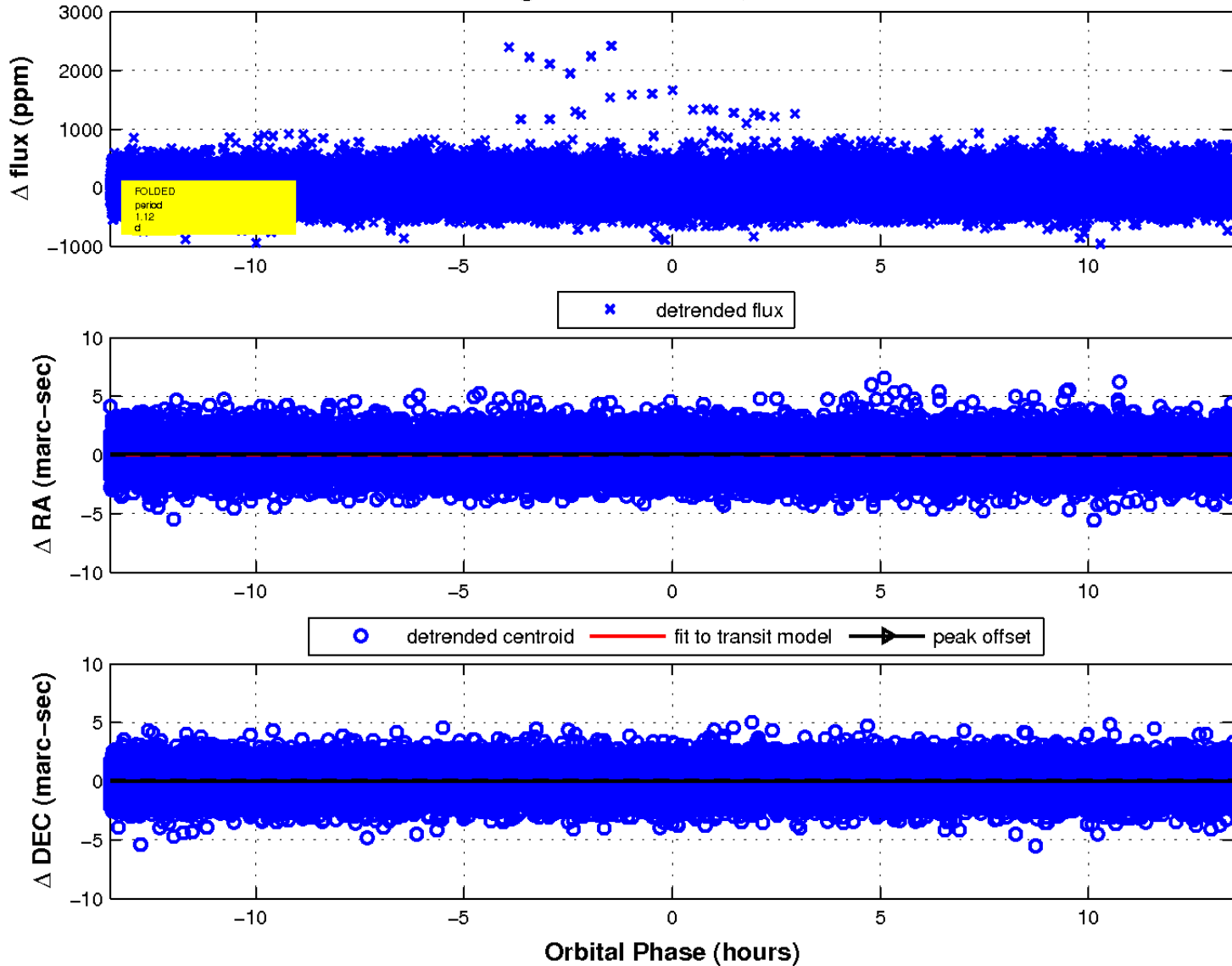
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

