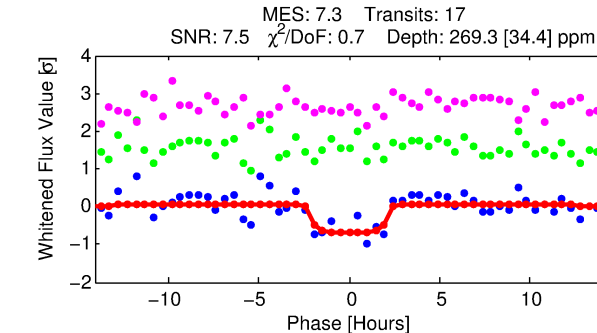
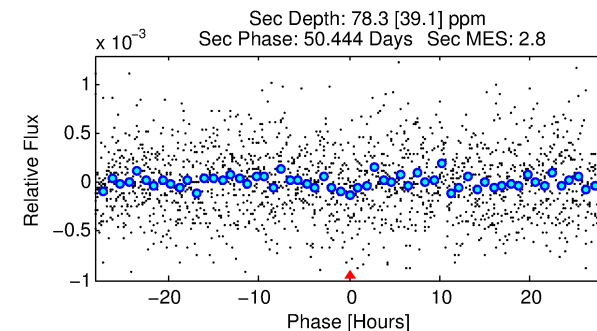
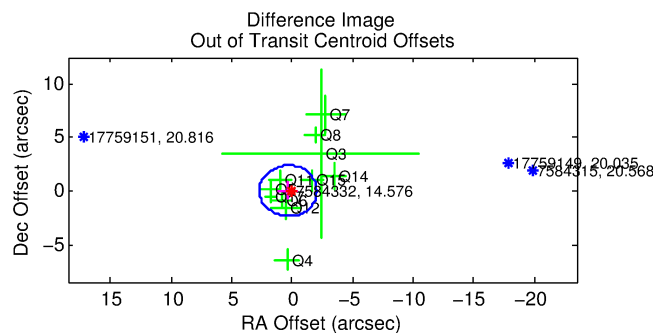
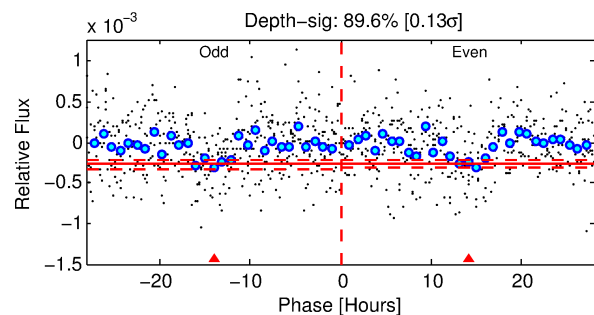
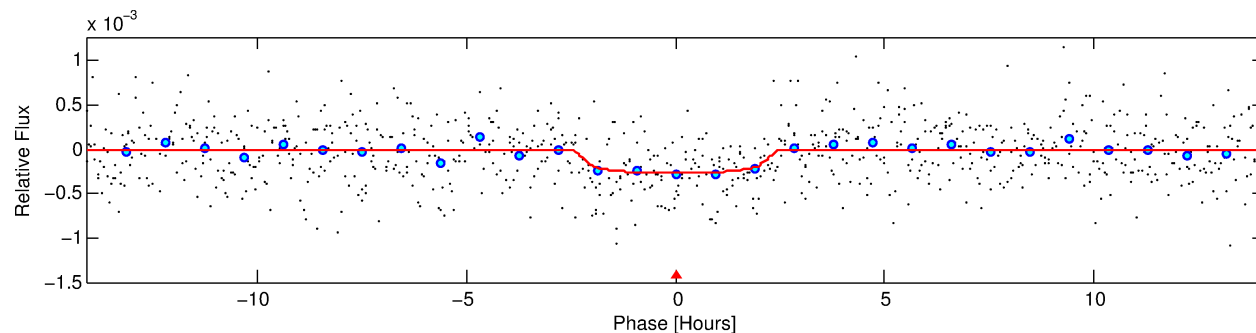
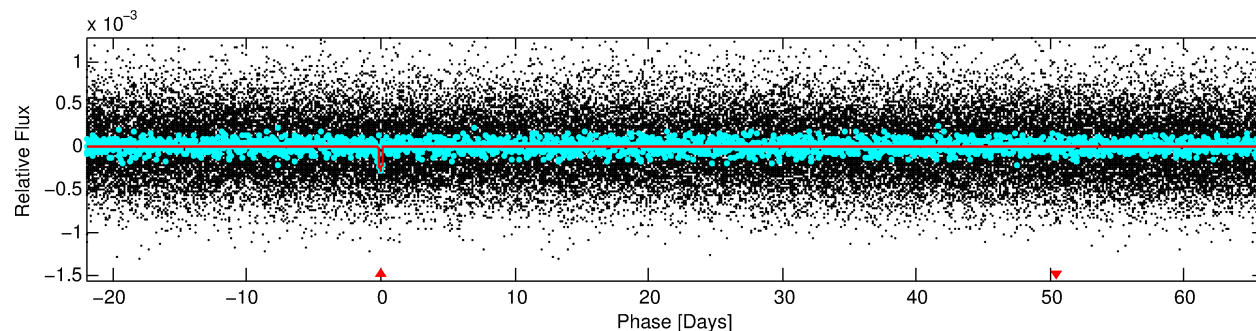
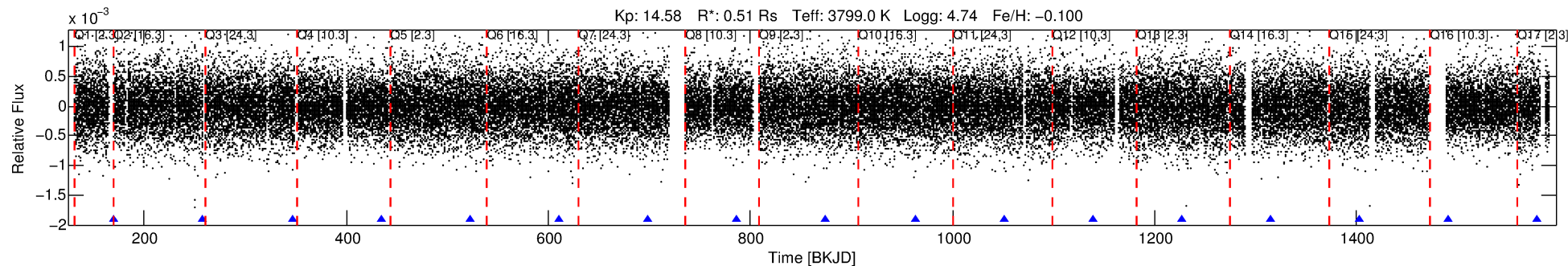


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 7584332 Candidate: 1 of 1 Period: 88.042 d

**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**



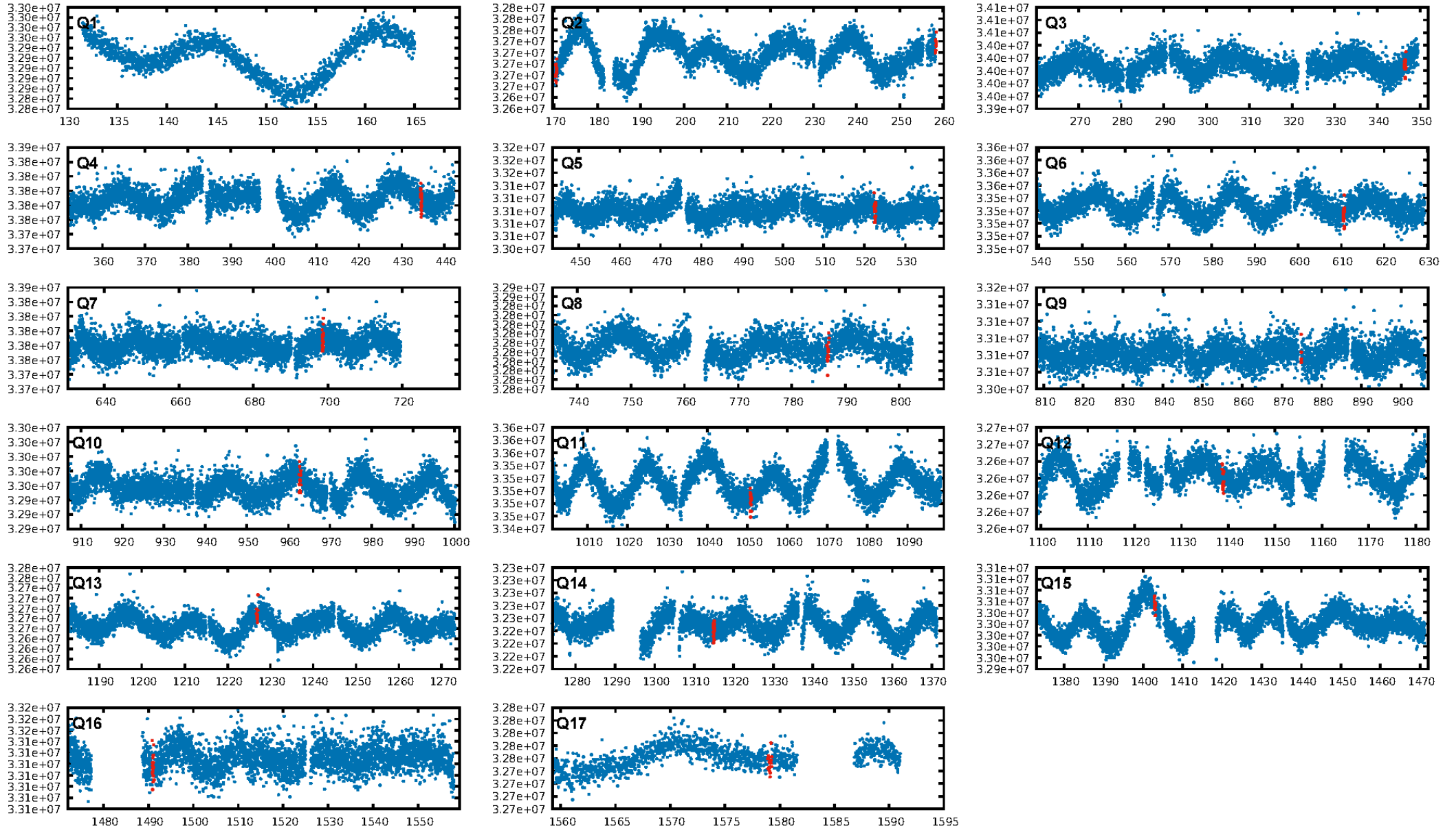
DV Fit Results:

Period = 88.04231 [0.00116] d
Epoch = 170.4135 [0.0116] BKJD
Rp/R* = 0.0166 [0.0164]
a/R* = 90.46 [401.90]
b = 0.80 [2.05]
Seff = 0.50 [0.05]
Teq = 215 [5] K
Rp = 0.93 [0.92] Re
a = 0.3113 [0.0159] AU
Ag = 4867.23 [9919.58] [0.49 σ]
Teffp = 2770 [1411] K [1.81 σ]

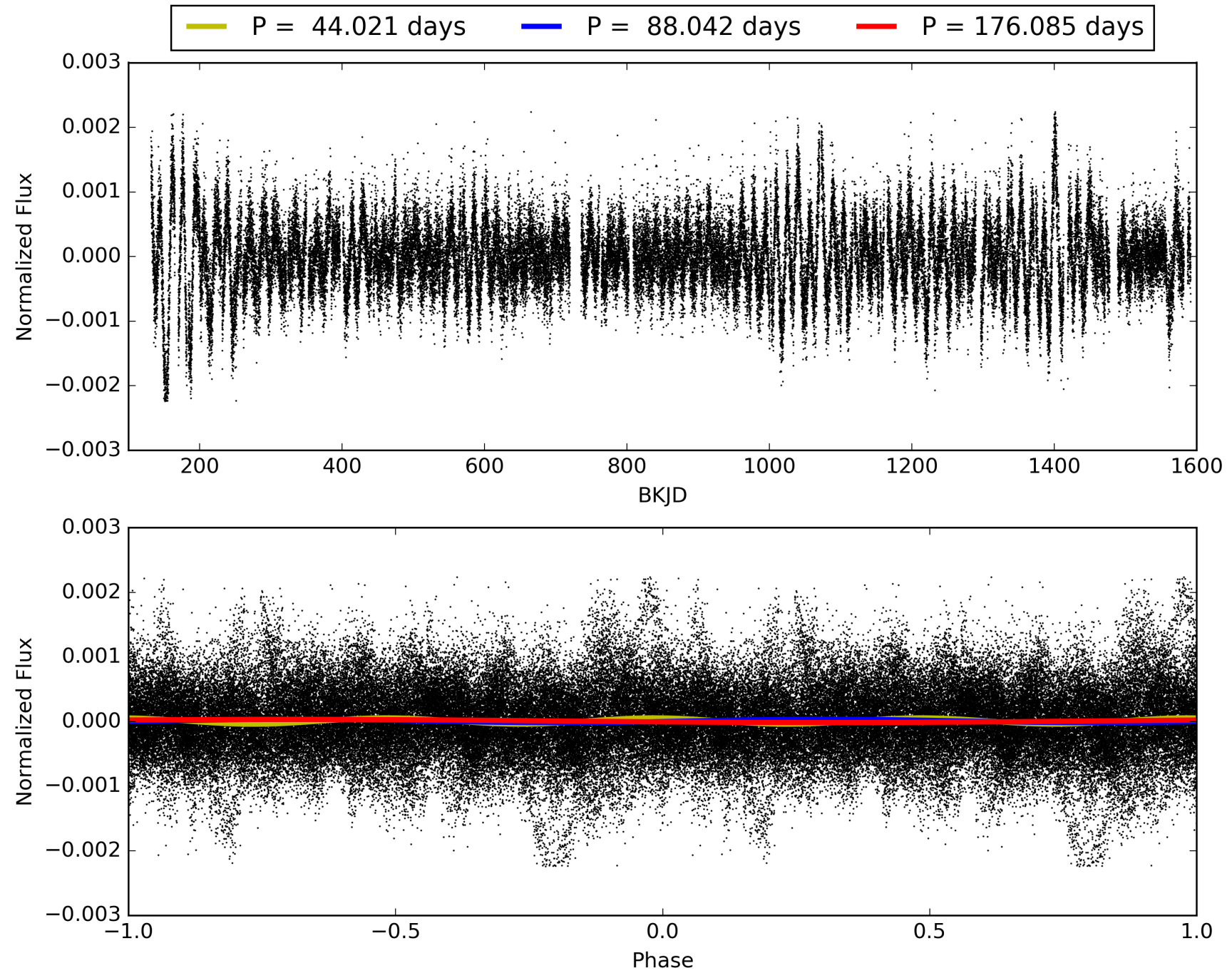
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 97.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.39e-13
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: 1.664
Centroid-sig: 32.3%
Centroid-so: 2.063 arcsec [1.00 σ]
OotOffset-rm: 0.340 arcsec [0.43 σ]
KicOffset-rm: 0.661 arcsec [0.76 σ]
OotOffset-st: 2/4/3/2 [11]
KicOffset-st: 2/4/3/2 [11]
DiffImageQuality-fgm: 0.36 [4/11]
DiffImageOverlap-fno: 1.00 [13/13]

TCE 007584332-01, PDC Light Curves

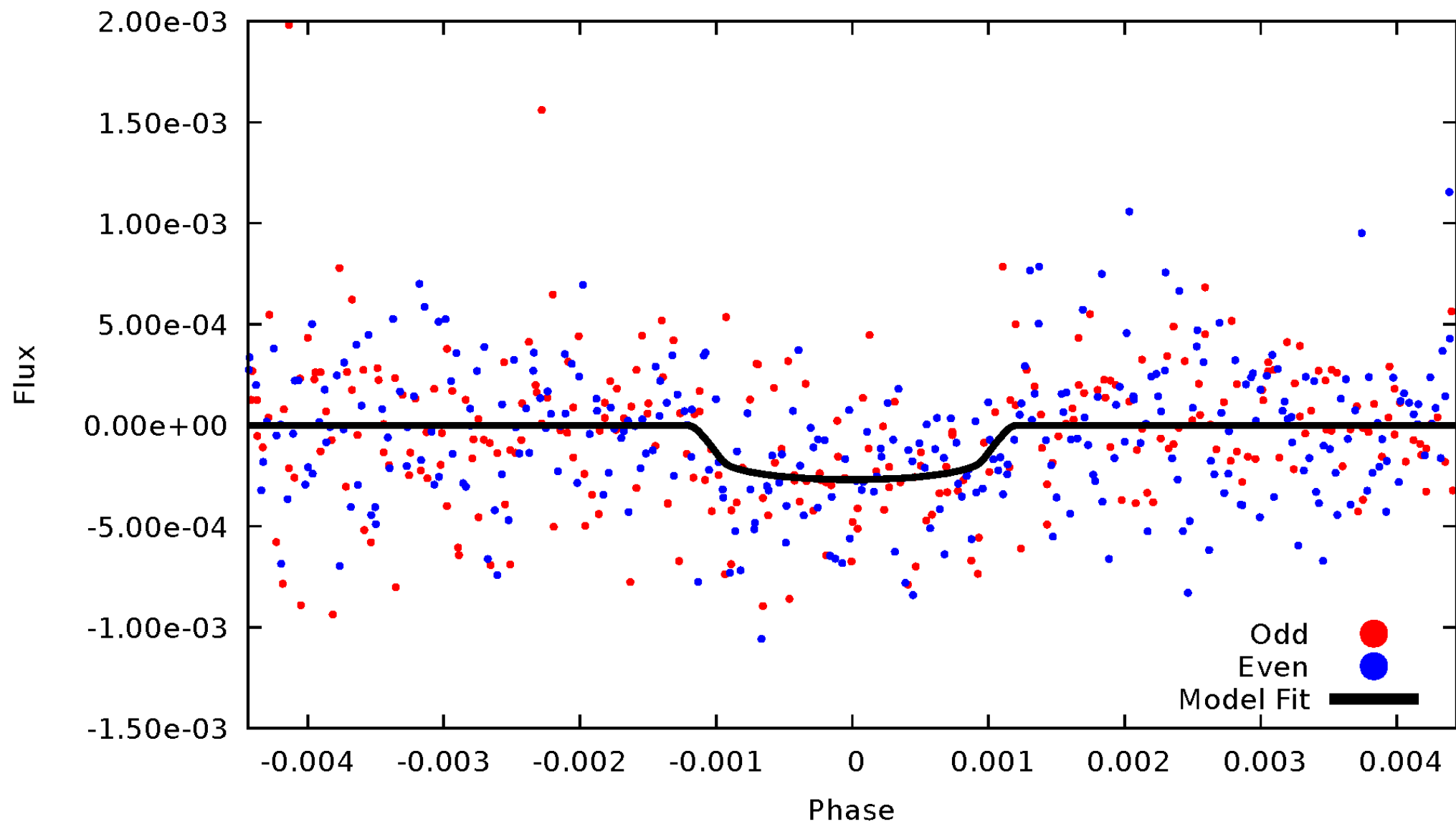


TCE 007584332-01



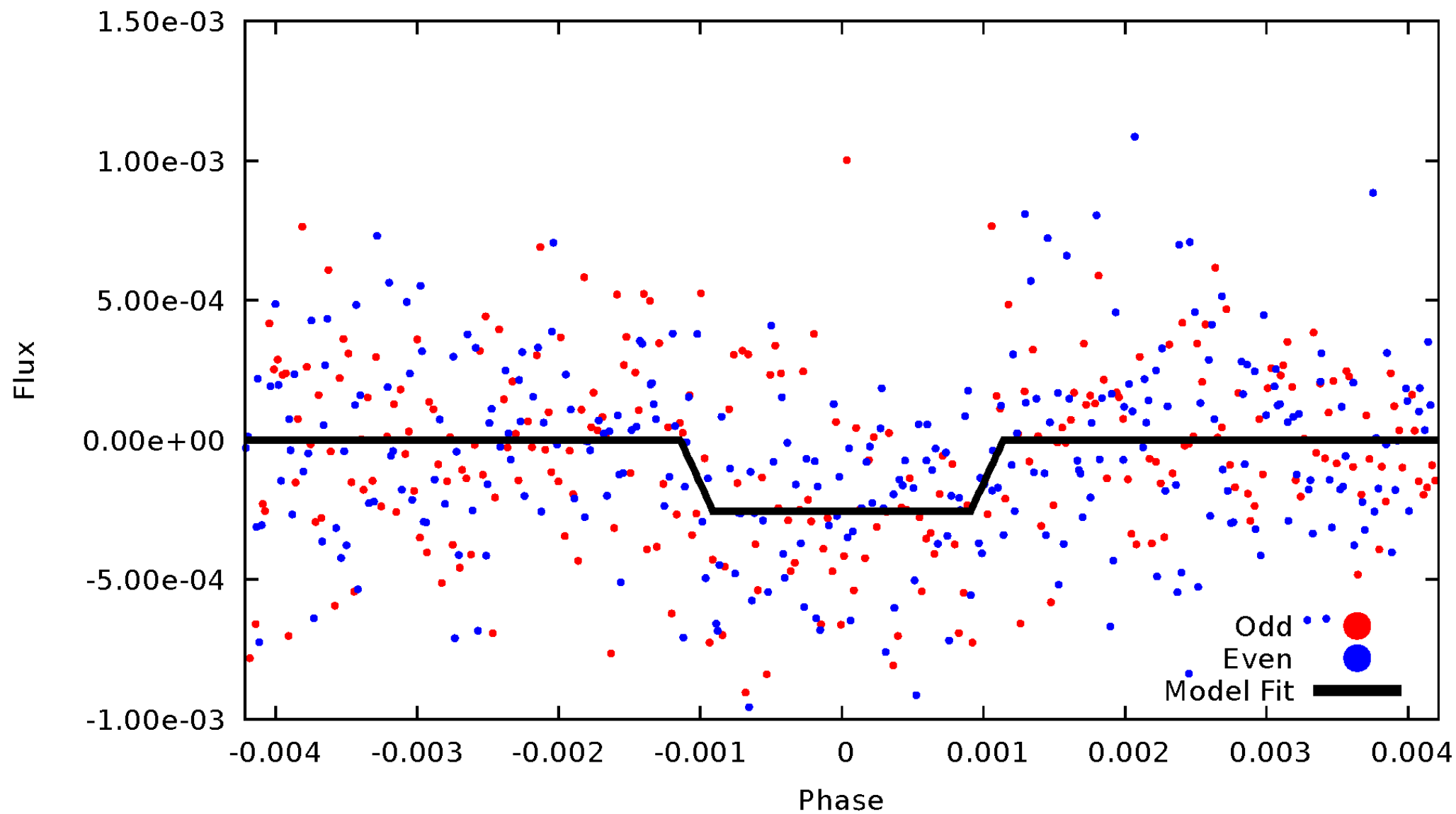
DV Odd/Even

TCE 007584332-01



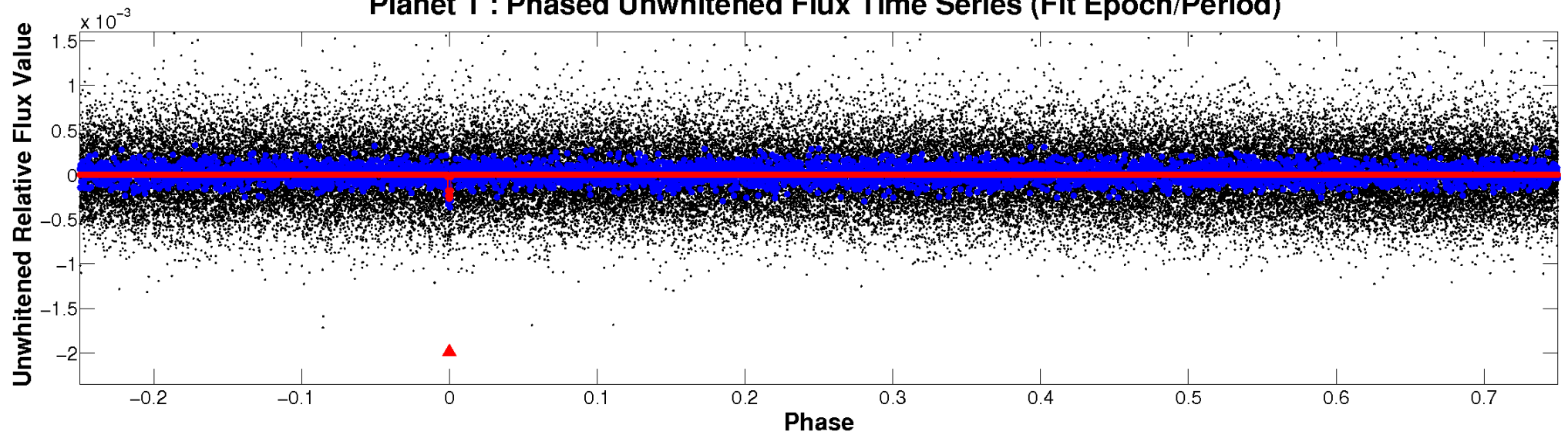
ALT Odd/Even

TCE 007584332-01

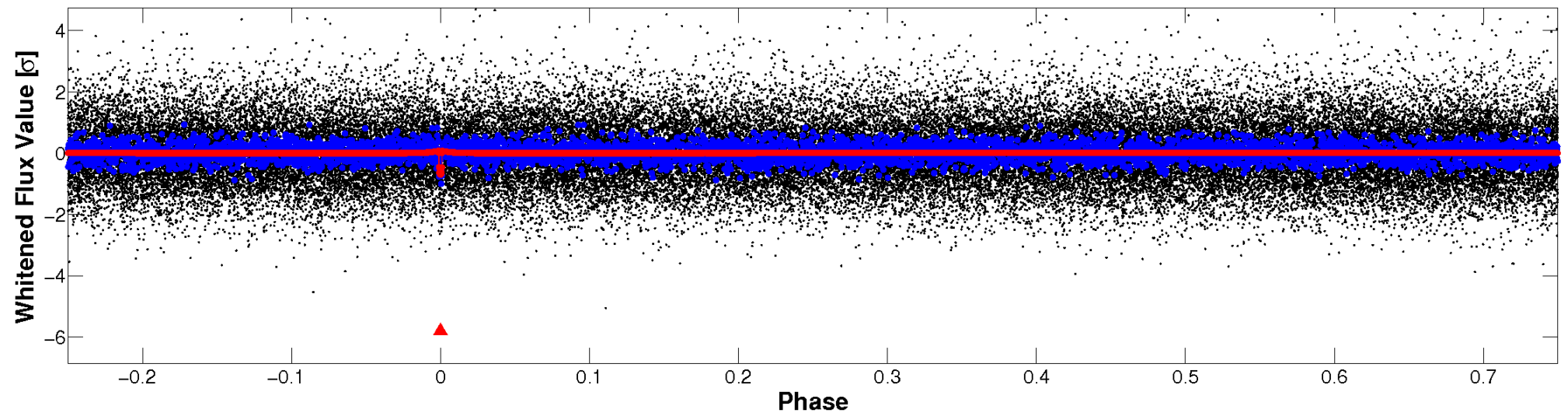


Non-Whitened Vs. Whitened Light Curve

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

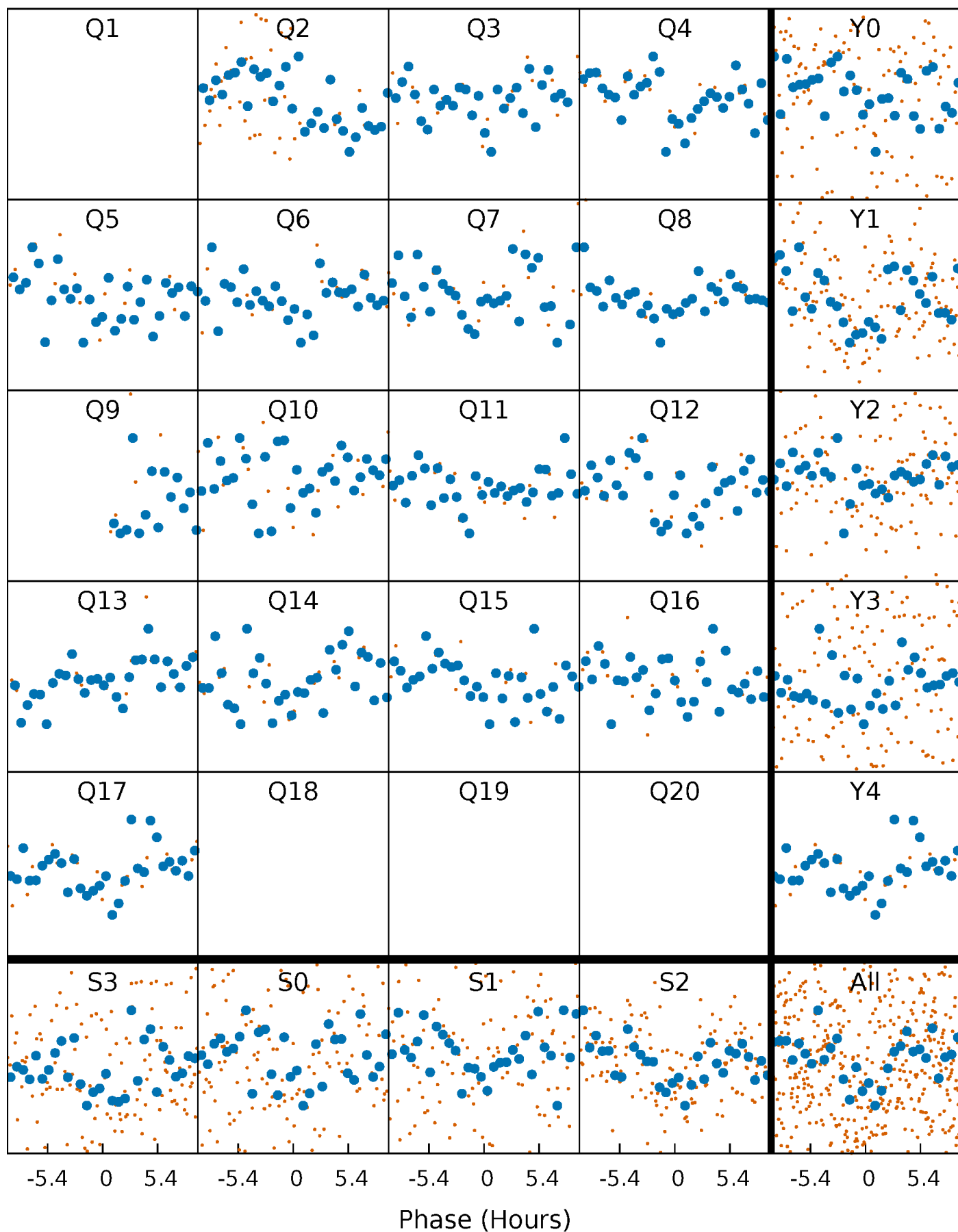


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



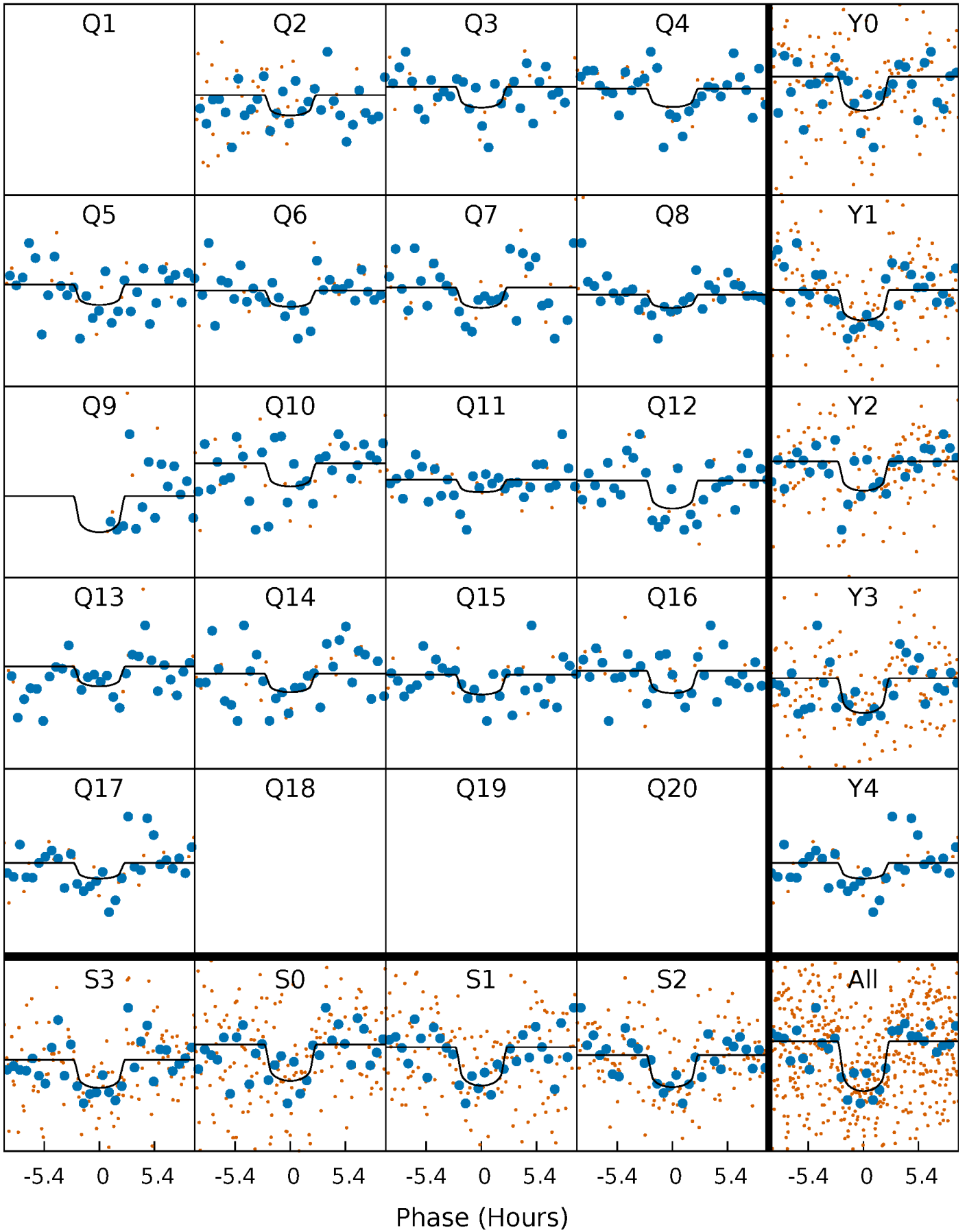
PDC Quarter-Phased Transit Curves

TCE 007584332-01 P= 88.042311 Days $T_0=170.413488$ (BKJD)



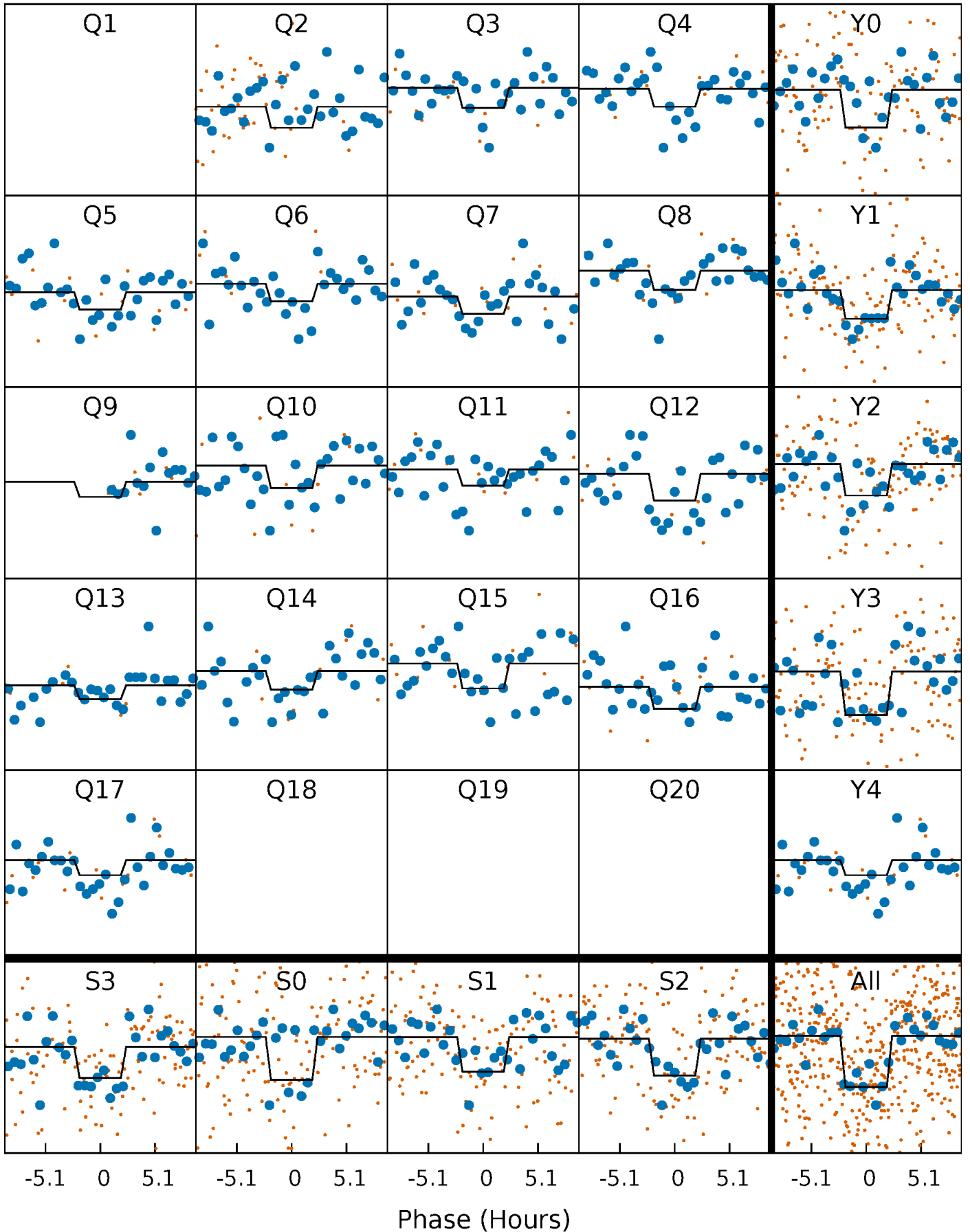
DV Quarter-Phased Transit Curves

TCE 007584332-01 P= 88.042311 Days $T_0=170.413488$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

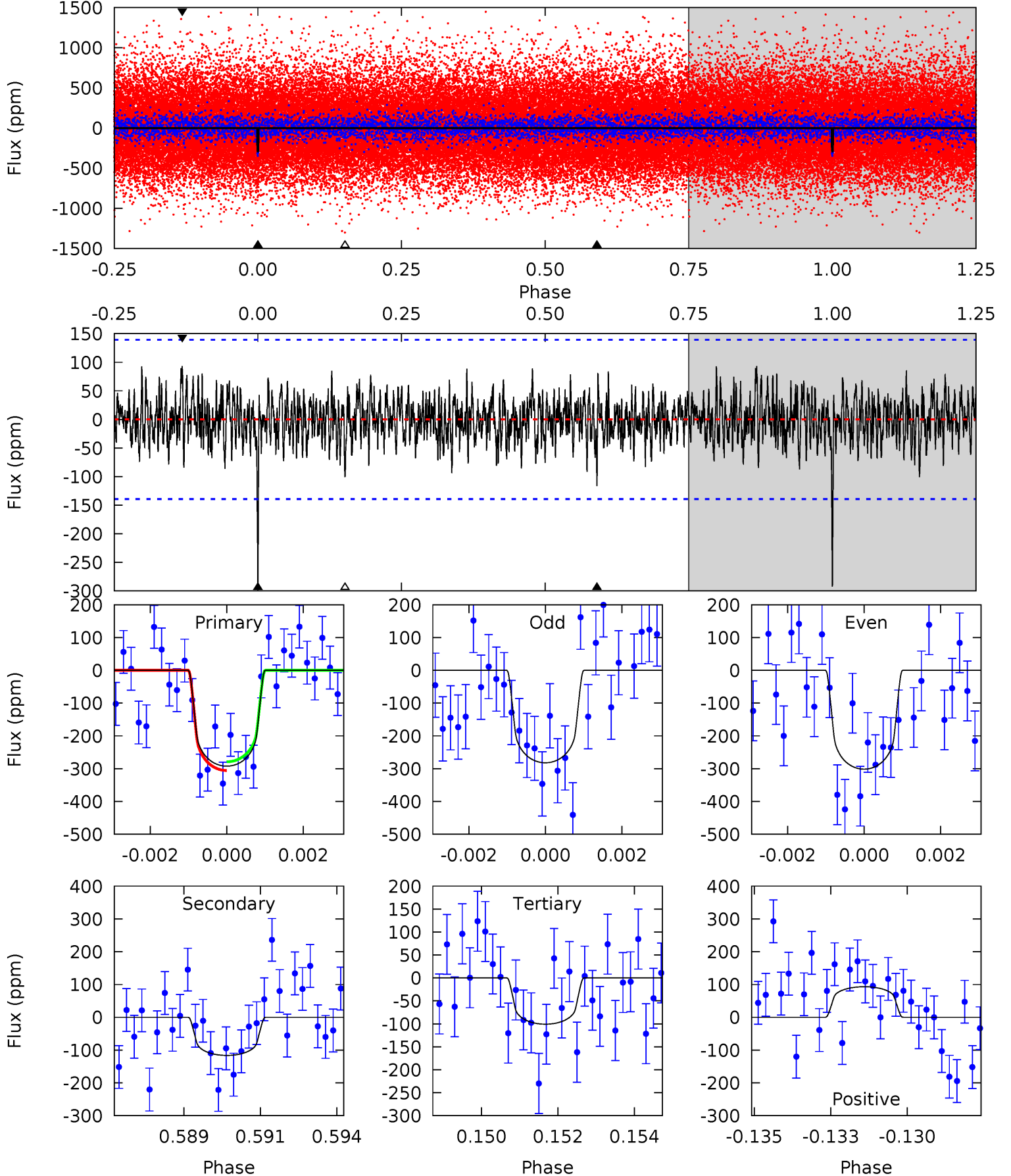
TCE 007584332-01 P= 88.041298 Days $T_0=170.422655$ (BKJD)



DV Model-Shift Uniqueness Test

007584332-01, P = 88.042311 Days, E = 82.371177 Days

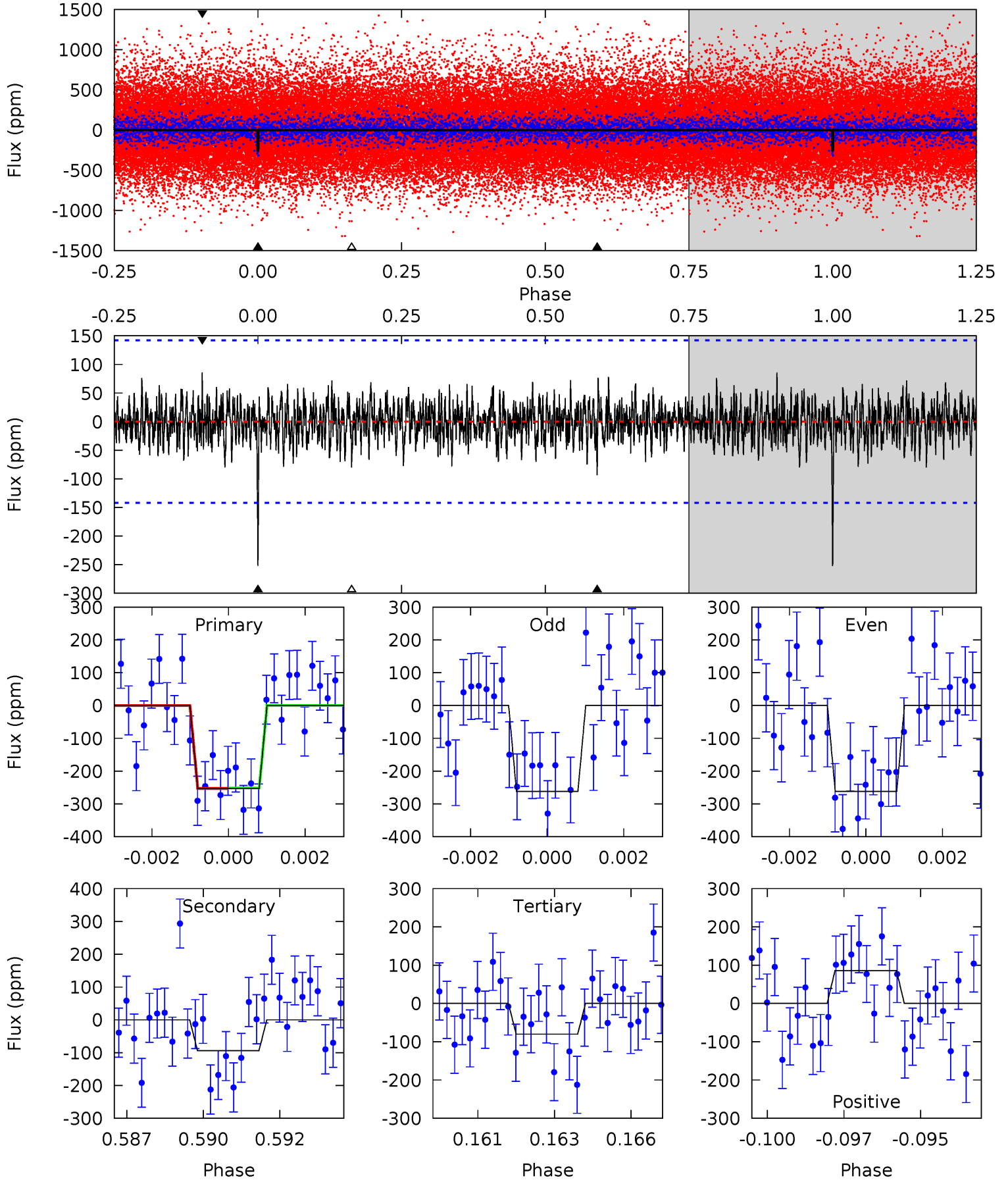
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.1	4.42	3.83	3.54	5.29	3.03	1.19	7.28	7.57	0.59	0.89	0.37	1.02	0.24	0.50



Alt Model-Shift Uniqueness Test

007584332-01, P = 88.041298 Days, E = 82.381357 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.43	3.50	2.99	3.21	5.30	3.05	0.98	6.44	6.22	0.50	0.29	0.00	0.89	0.25	0.02



Stellar Parameters For KIC 007584332

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3799^{+68}_{-68}	$4.738^{+0.036}_{-0.021}$	$-0.100^{+0.100}_{-0.100}$	$0.510^{+0.024}_{-0.033}$	$0.518^{+0.029}_{-0.029}$	$5.508^{+0.906}_{-0.468}$
	+2%/-2%	+1%/-0%	+100%/-100%	+5%/-6%	+6%/-6%	+16%/-9%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 007584332-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-116 ± 26	$1.13^{+0.79}_{-0.74}$	299^{+6}_{-7}	3123^{+1277}_{-455}	4877^{+35195}_{-3274}
Alt.	-94 ± 27	$1.10^{+0.82}_{-0.71}$	299^{+6}_{-7}	3028^{+1171}_{-438}	4089^{+27082}_{-2802}

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 $A_{obs} \gg 1.0$

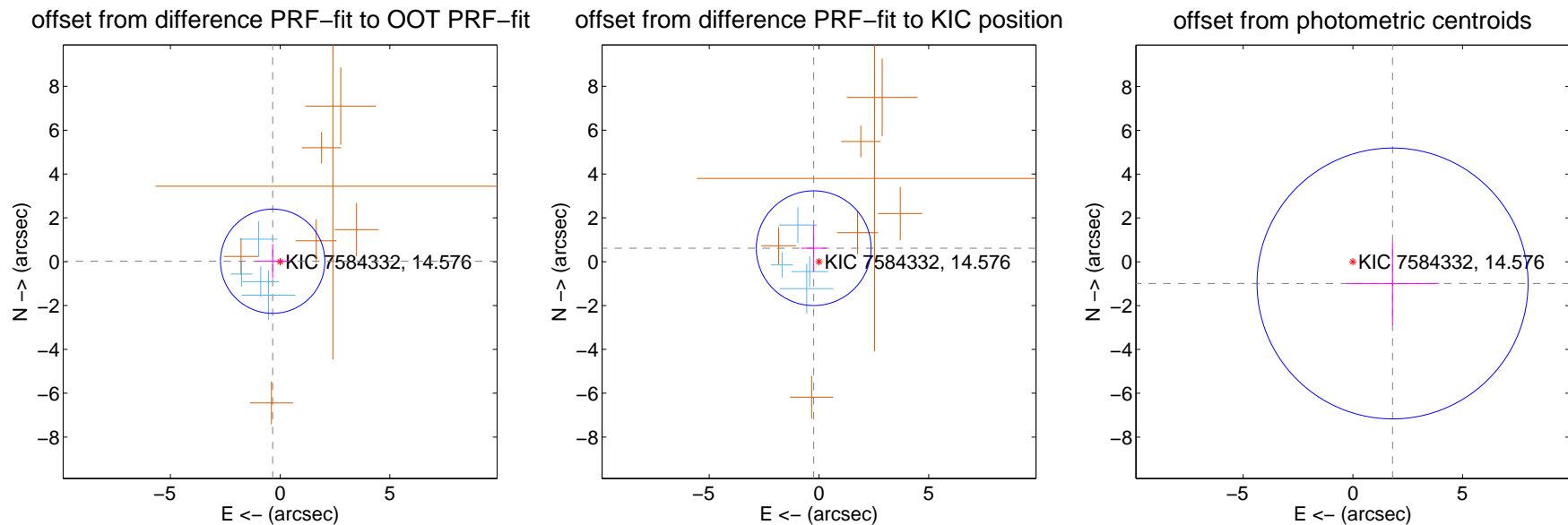
DV Centroid Data

Supplemental centroid analysis for 007584332-01. Kepler magnitude: 14.58. Transit SNR 7.48

There are 4 quarters with good PRF difference image offsets

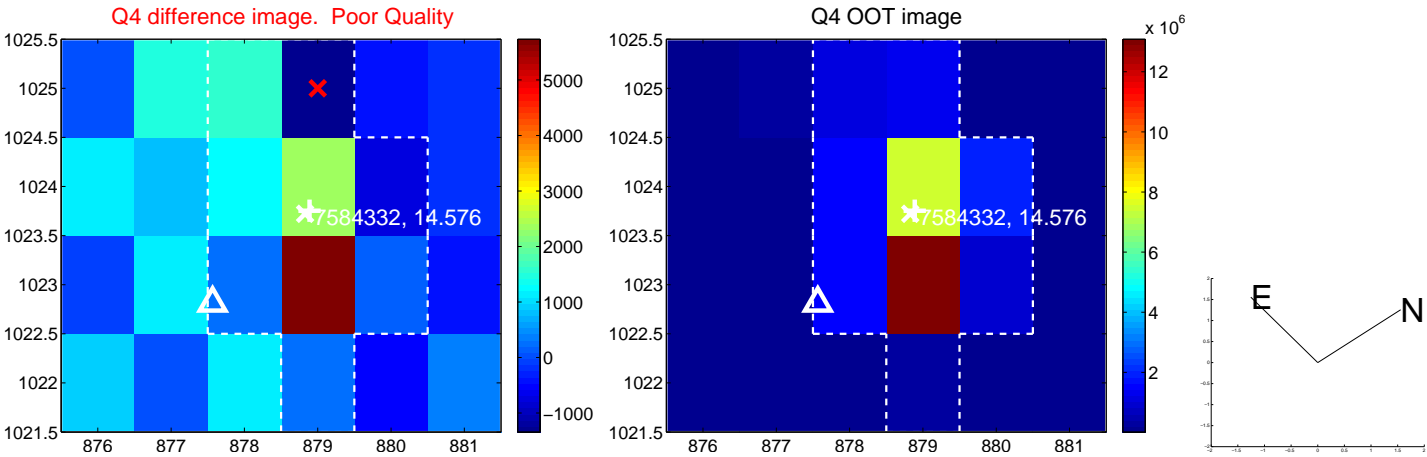
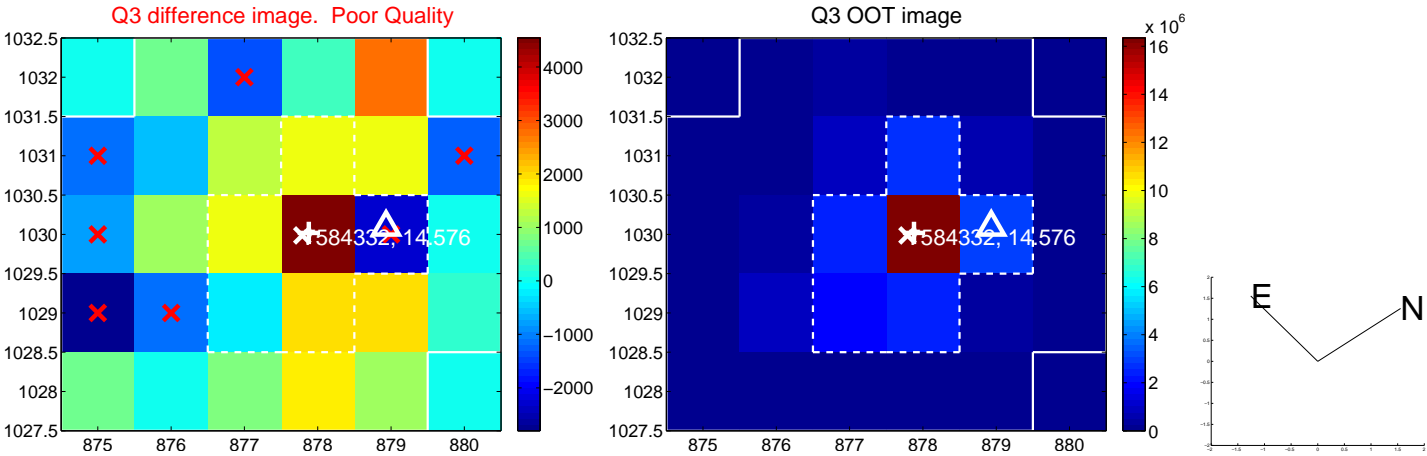
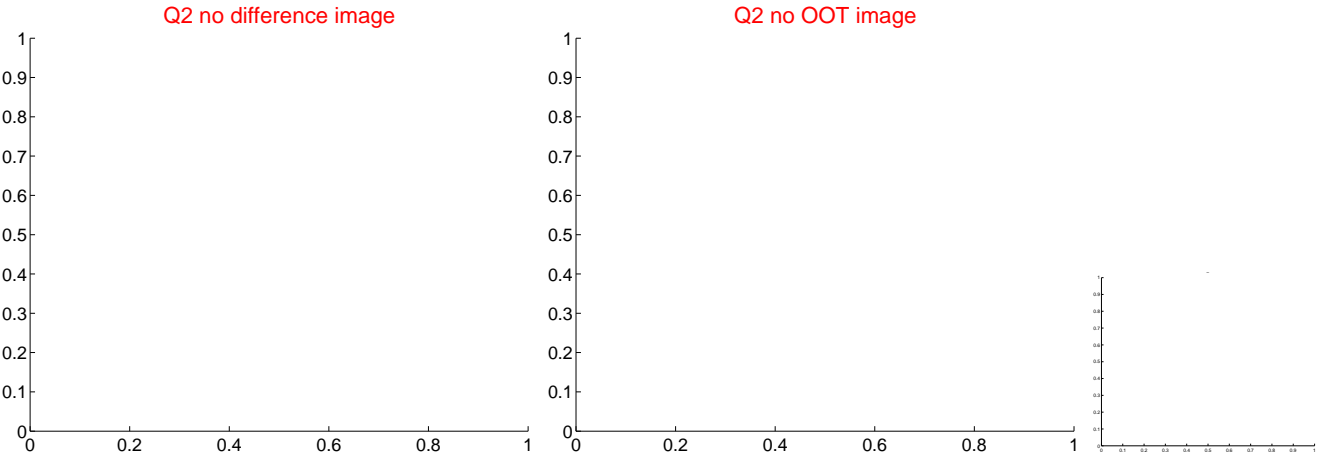
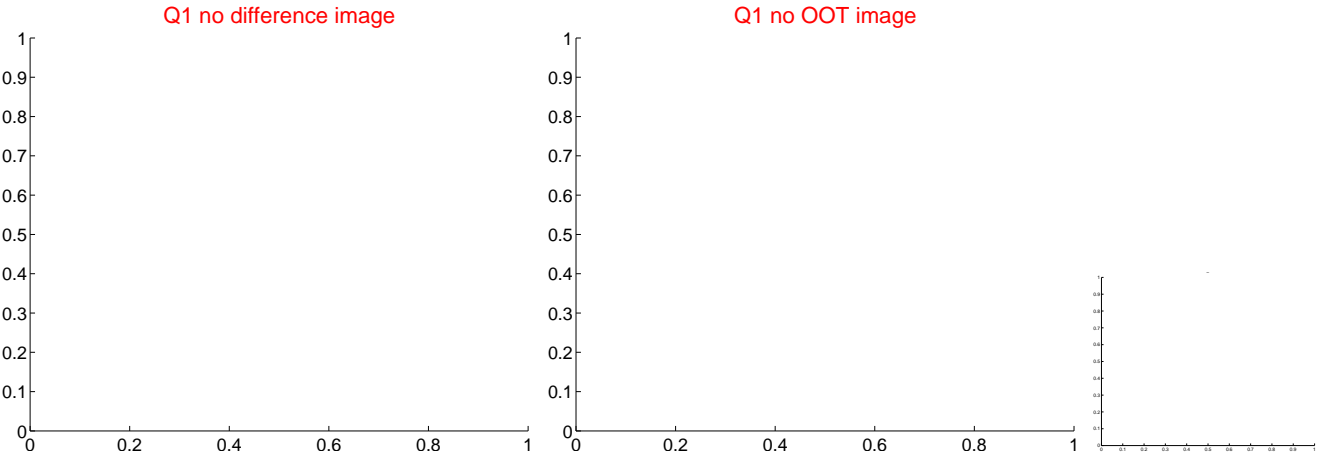
The direct PRF centroid is offset from the target star catalog position by about 0.42 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.340 ± 0.793	0.43	0.339 ± 0.793	0.021 ± 0.778
PRF-fit source offset from KIC position	0.661 ± 0.872	0.76	0.241 ± 0.575	0.615 ± 1.064
photometric centroid source offset	2.06 ± 2.06	1.00	-1.81 ± 2.11	-0.99 ± 1.89

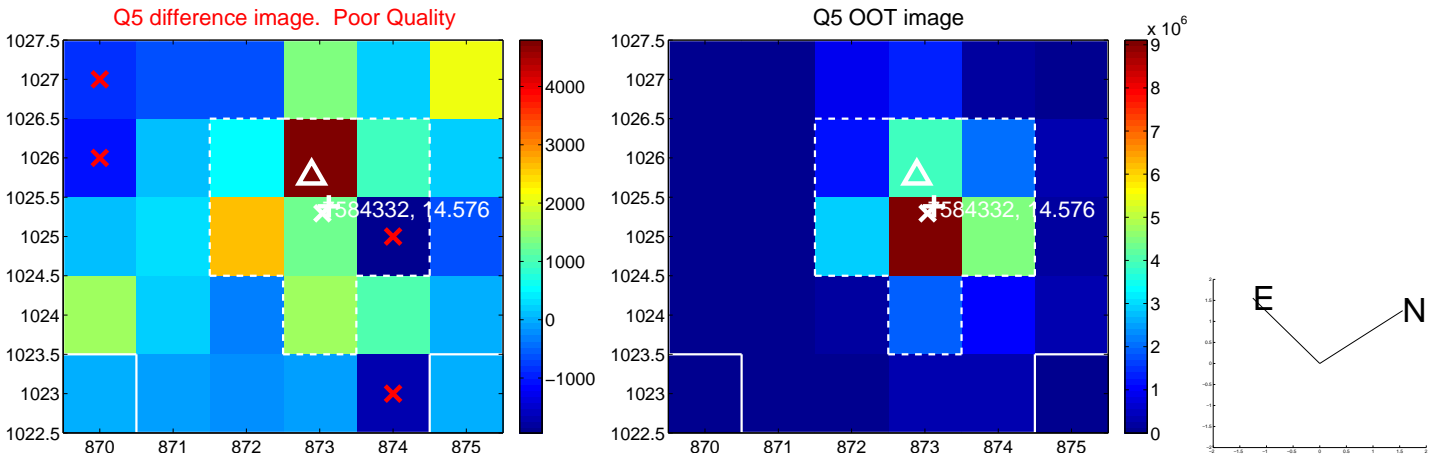


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

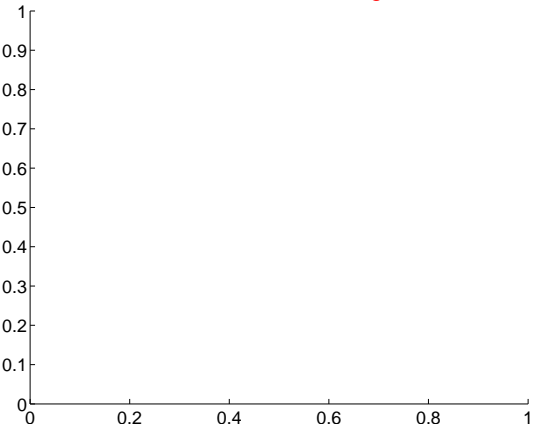


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

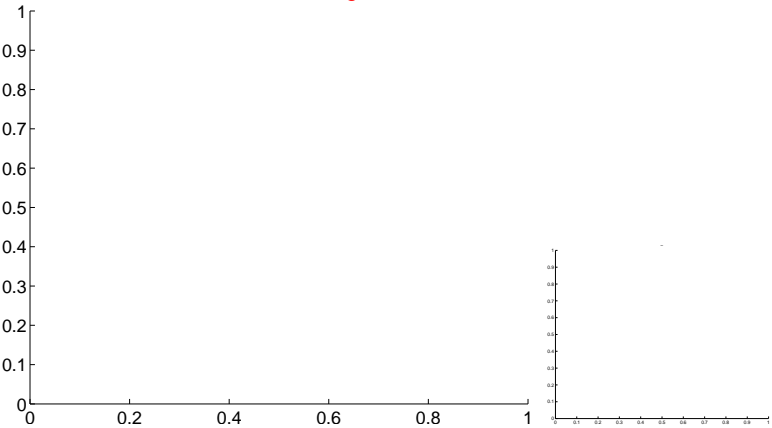


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

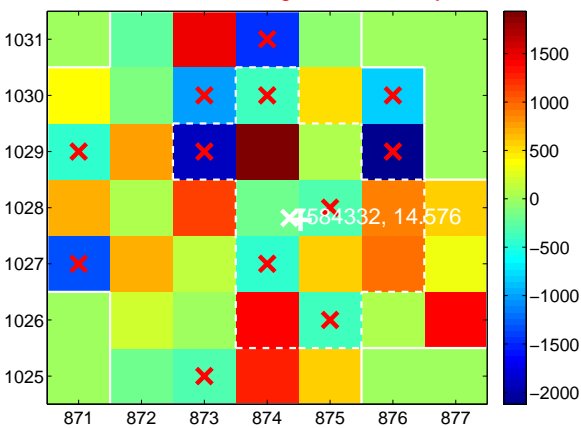
Q9 no difference image



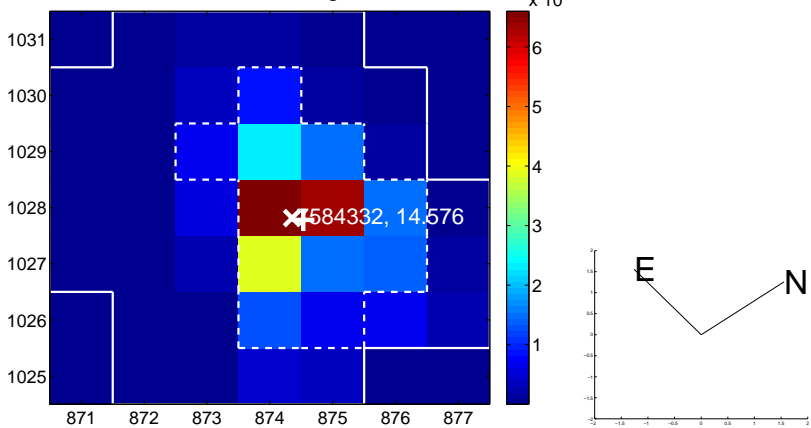
Q9 no OOT image



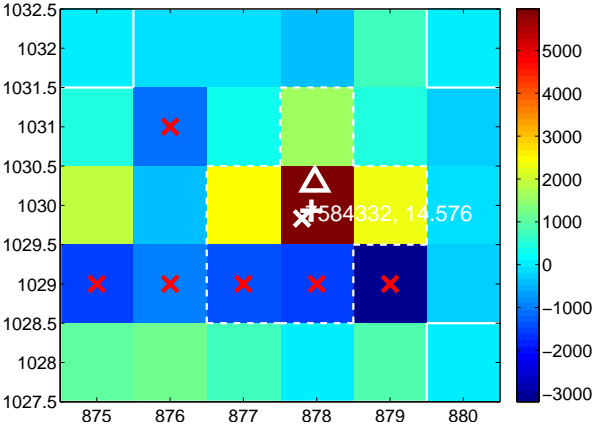
Q10 difference image. Poor Quality



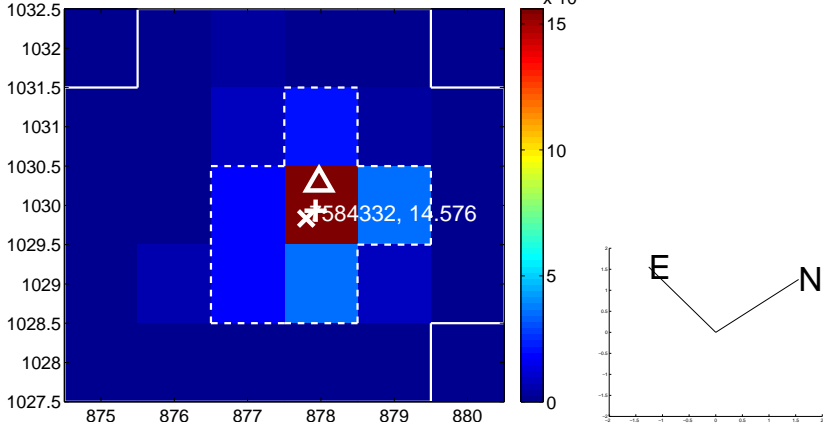
Q10 OOT image



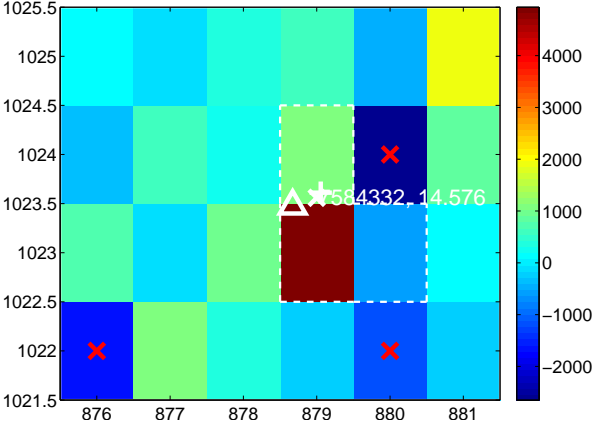
Q11 difference image



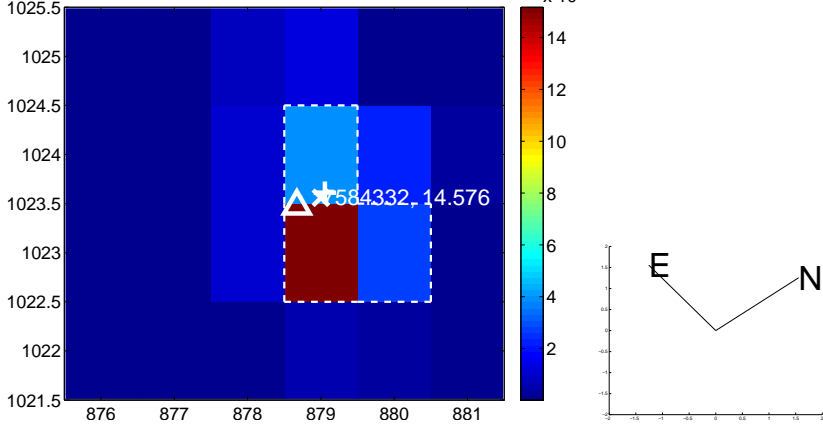
Q11 OOT image



Q12 difference image

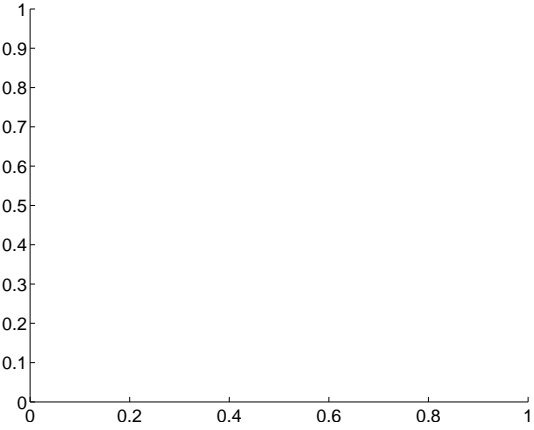


Q12 OOT image

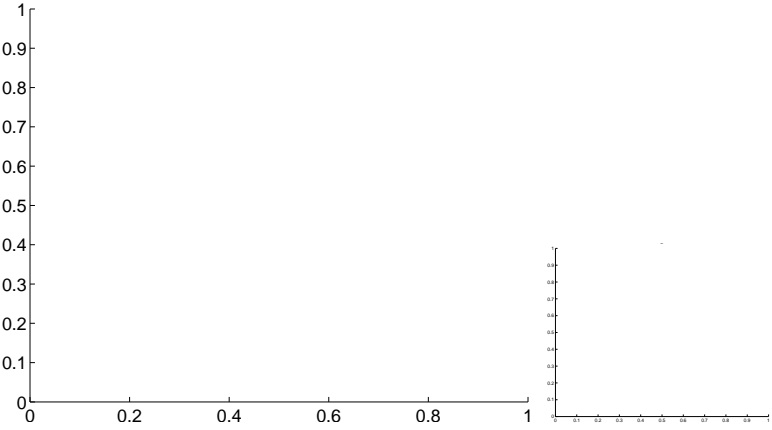


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

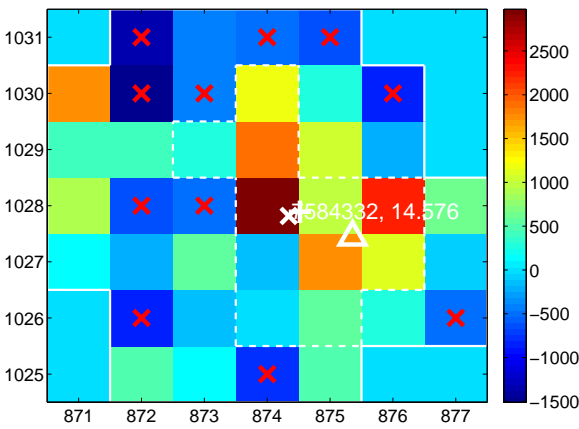
Q13 no difference image



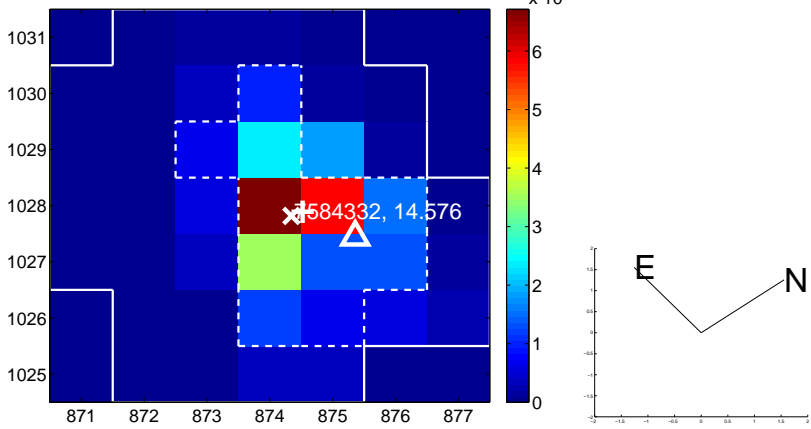
Q13 no OOT image



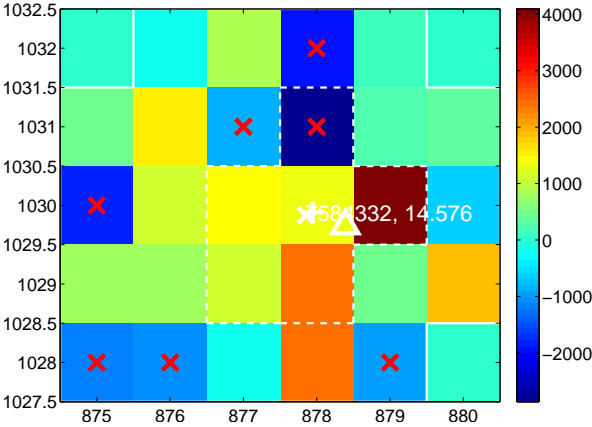
Q14 difference image. Poor Quality



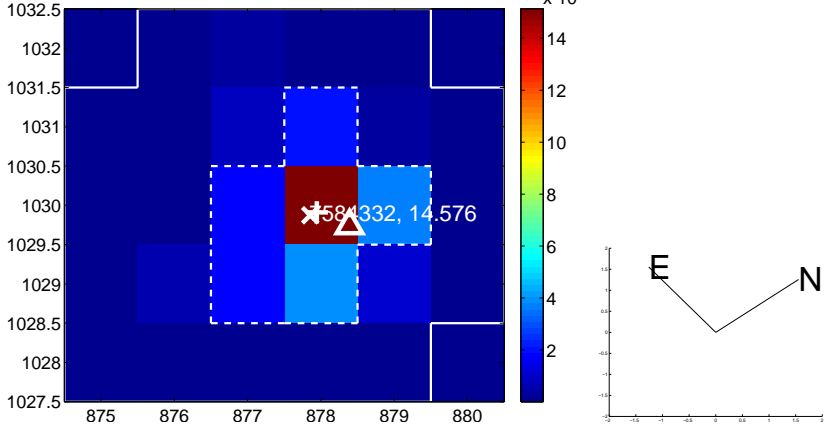
Q14 OOT image



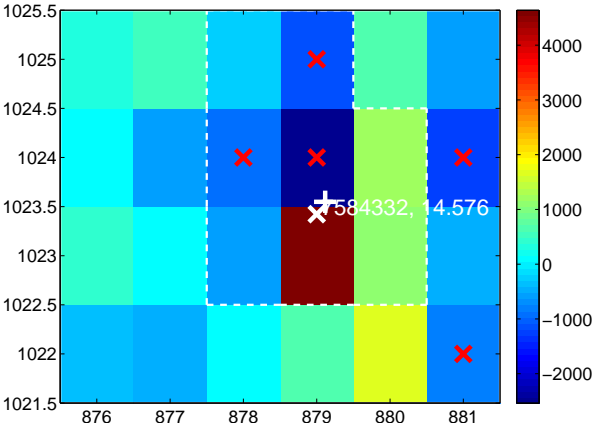
Q15 difference image. Poor Quality



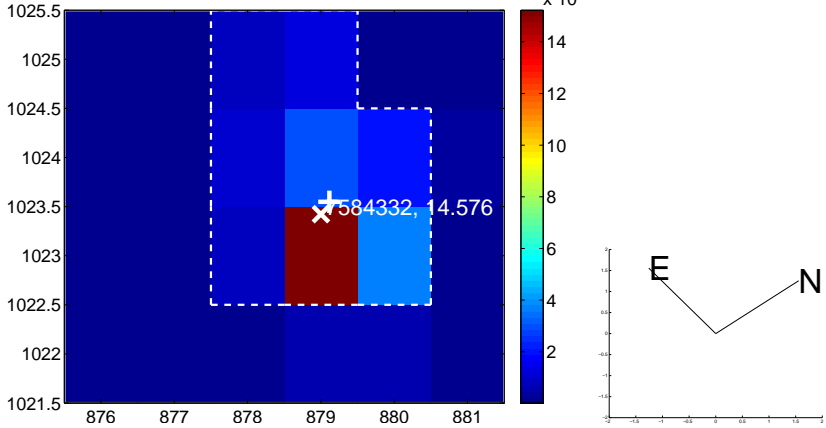
Q15 OOT image



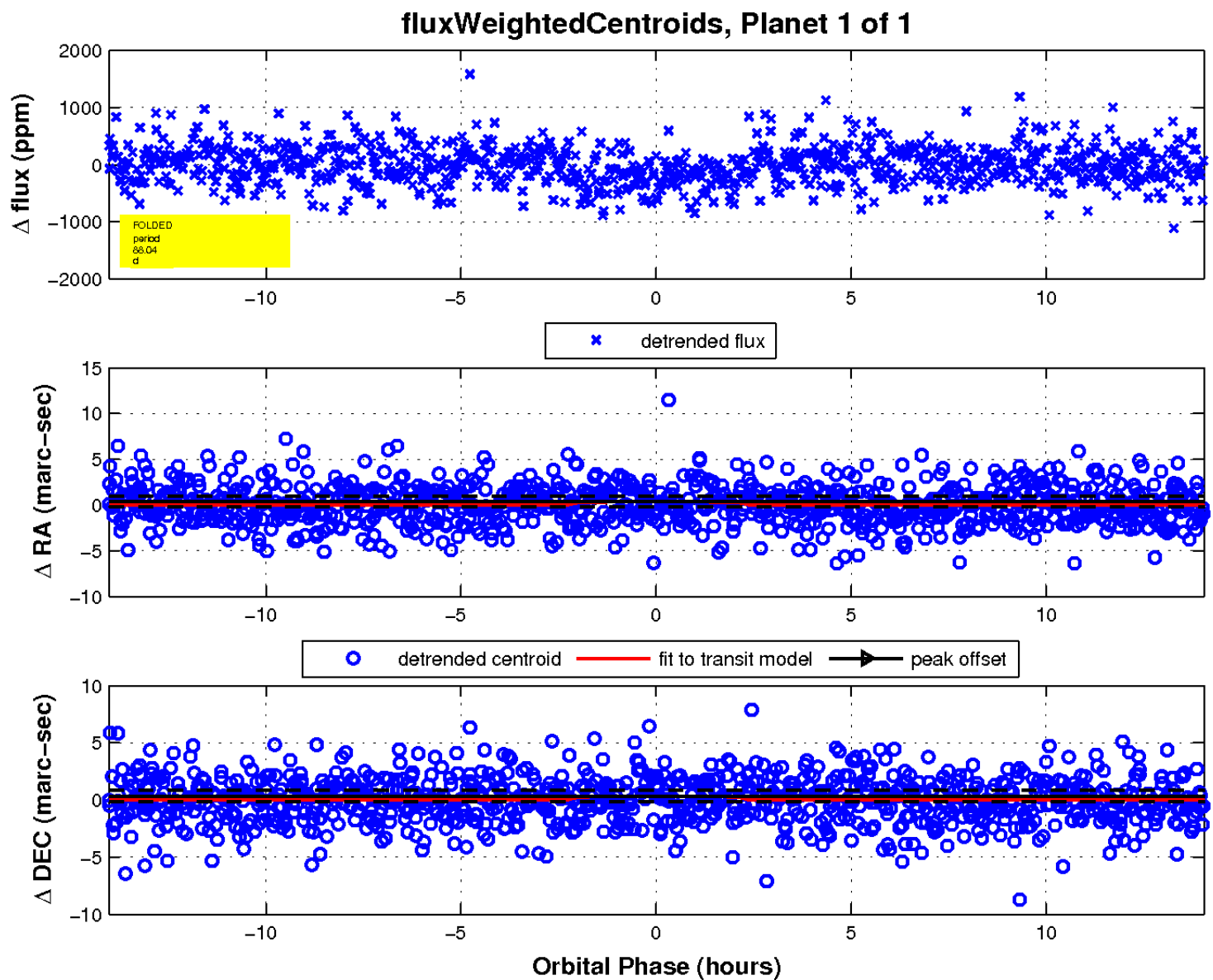
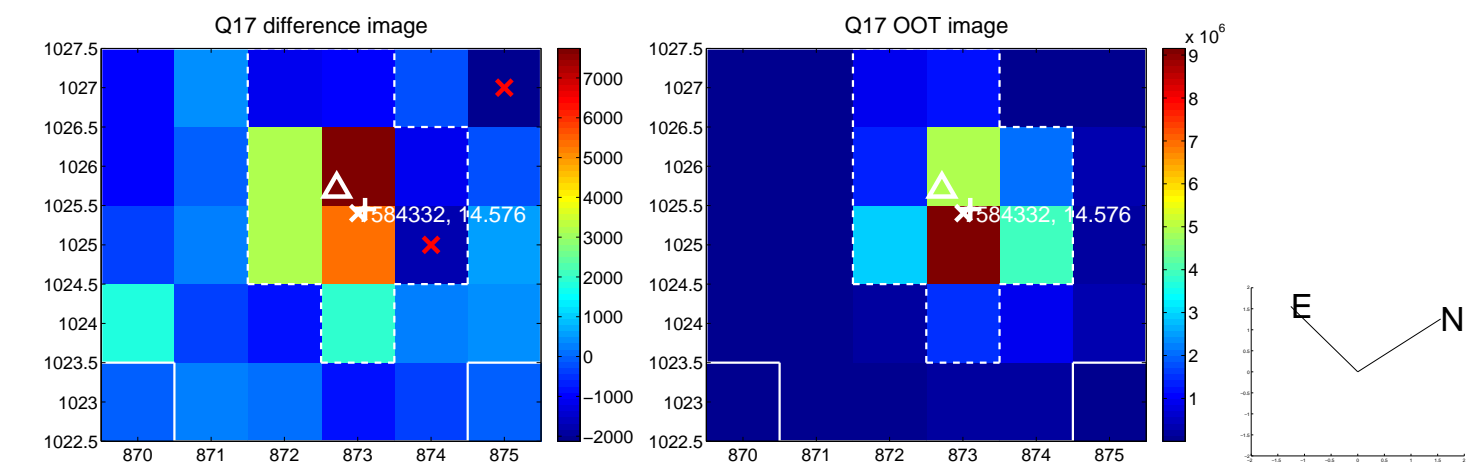
Q16 difference image. Poor Quality



Q16 OOT image



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



UKIRT Image

Declination

