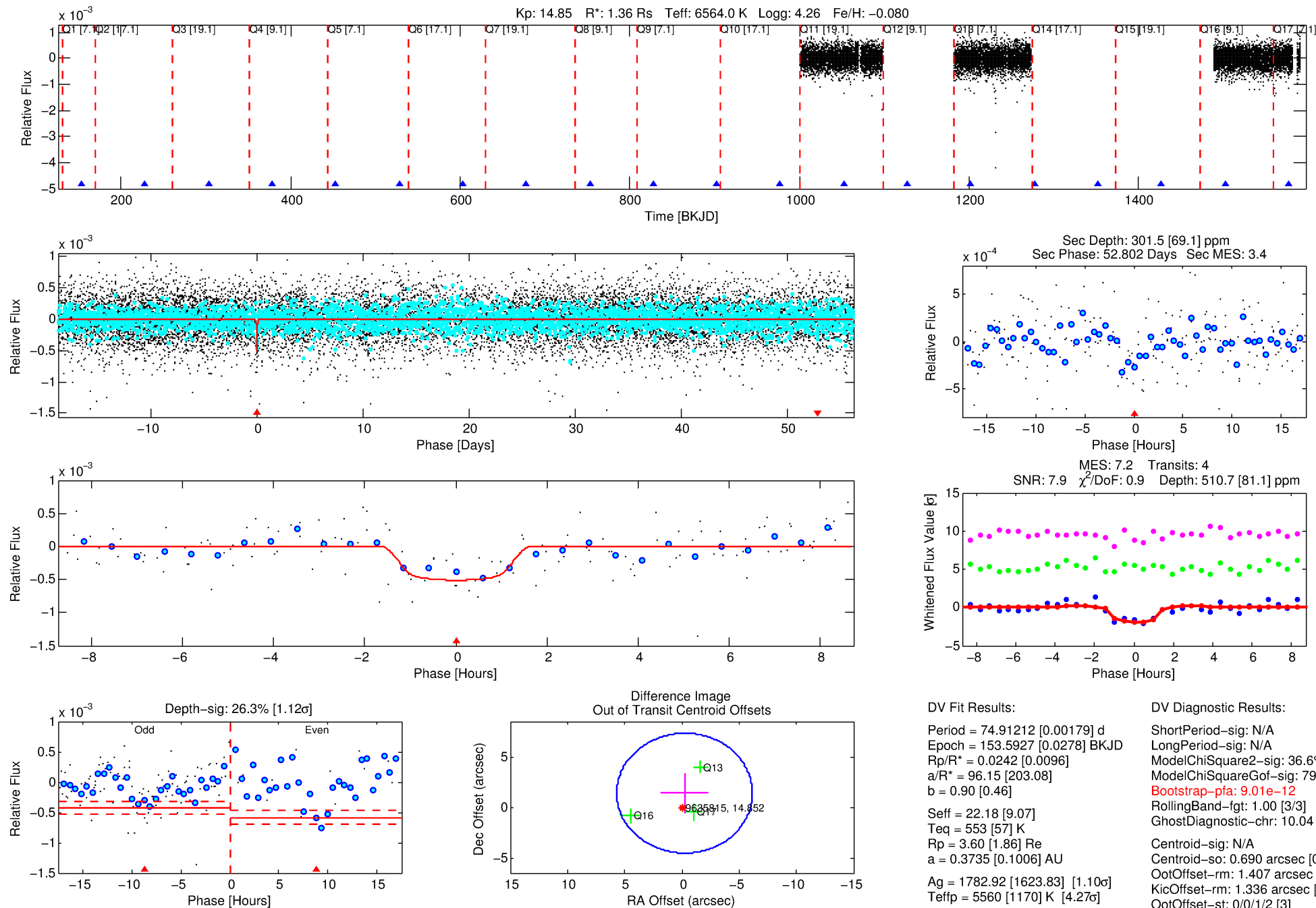


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 9635815 Candidate: 1 of 1 Period: 74.912 d

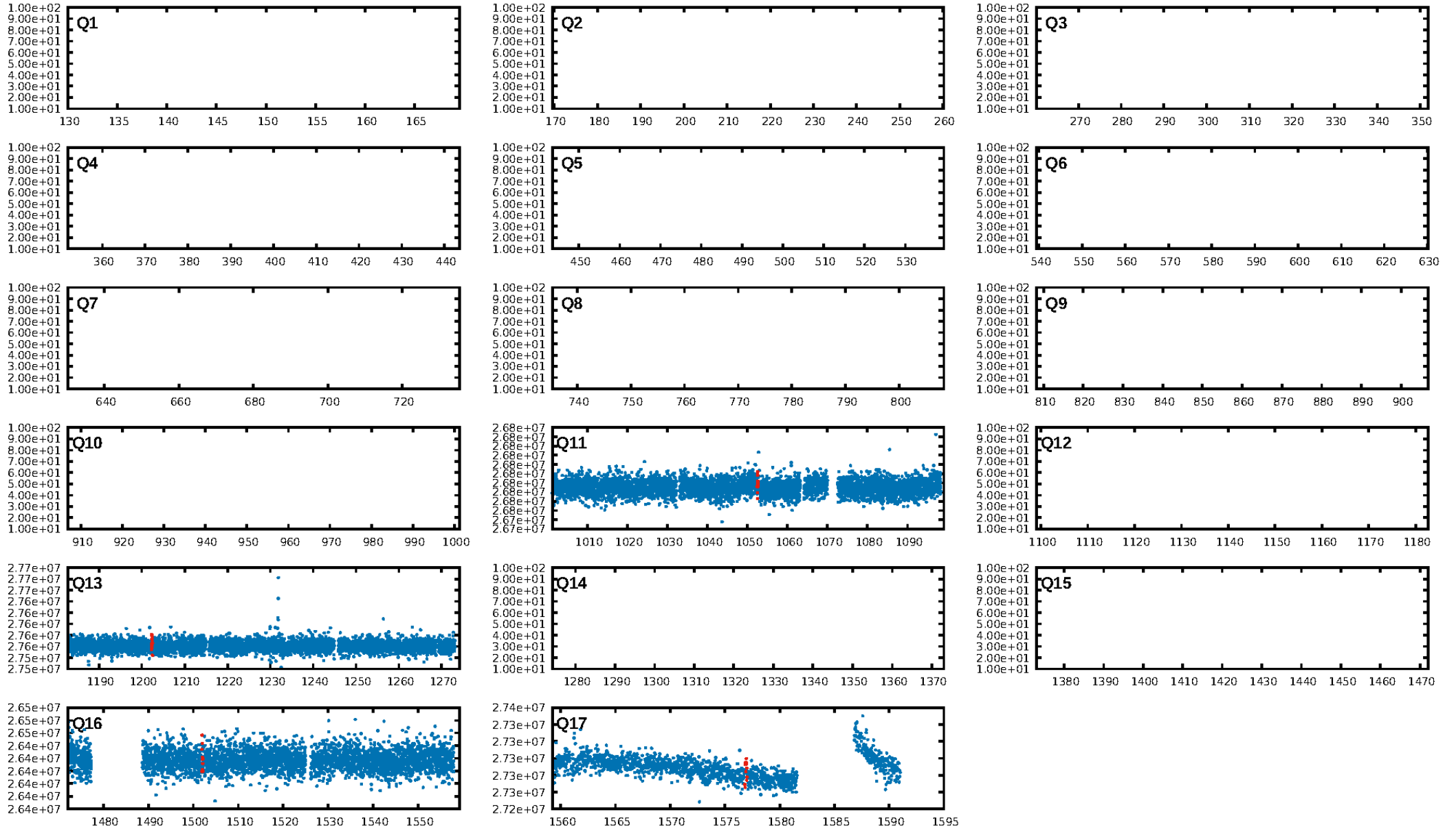
**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**



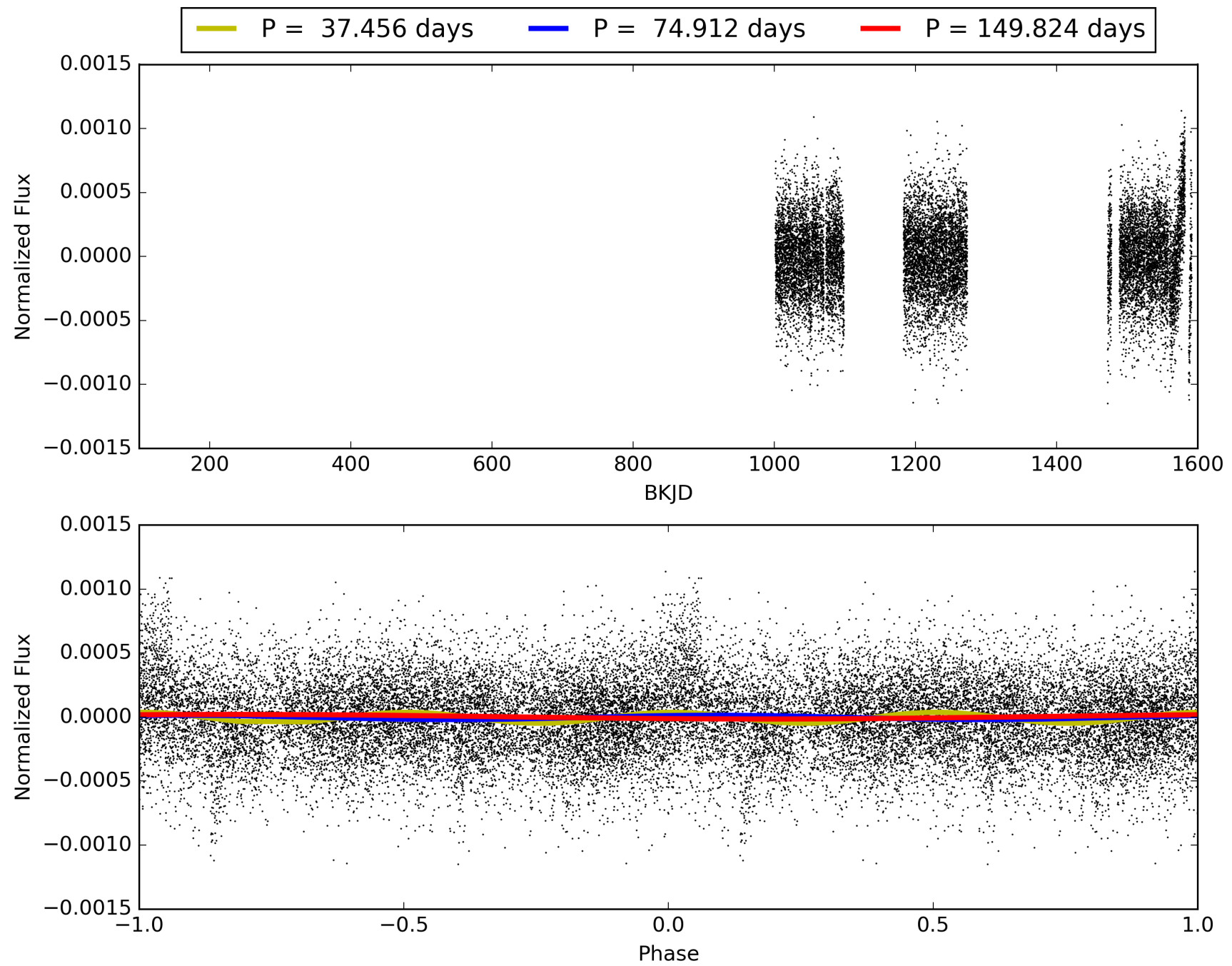
Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop-2320@61025 -- Date Generated: 03-Mar-2016 22:50:00 Z

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

TCE 009635815-01, PDC Light Curves

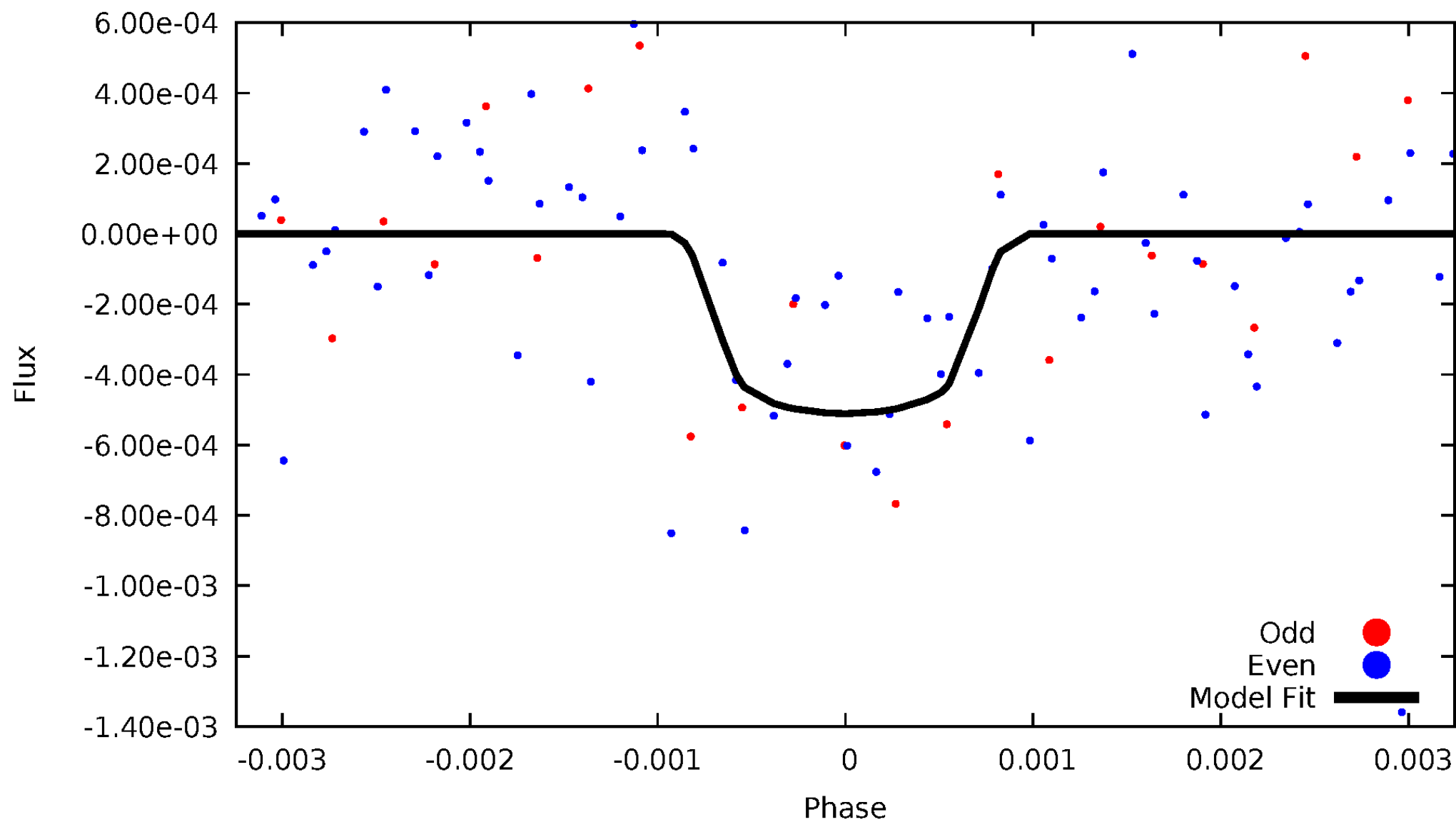


TCE 009635815-01



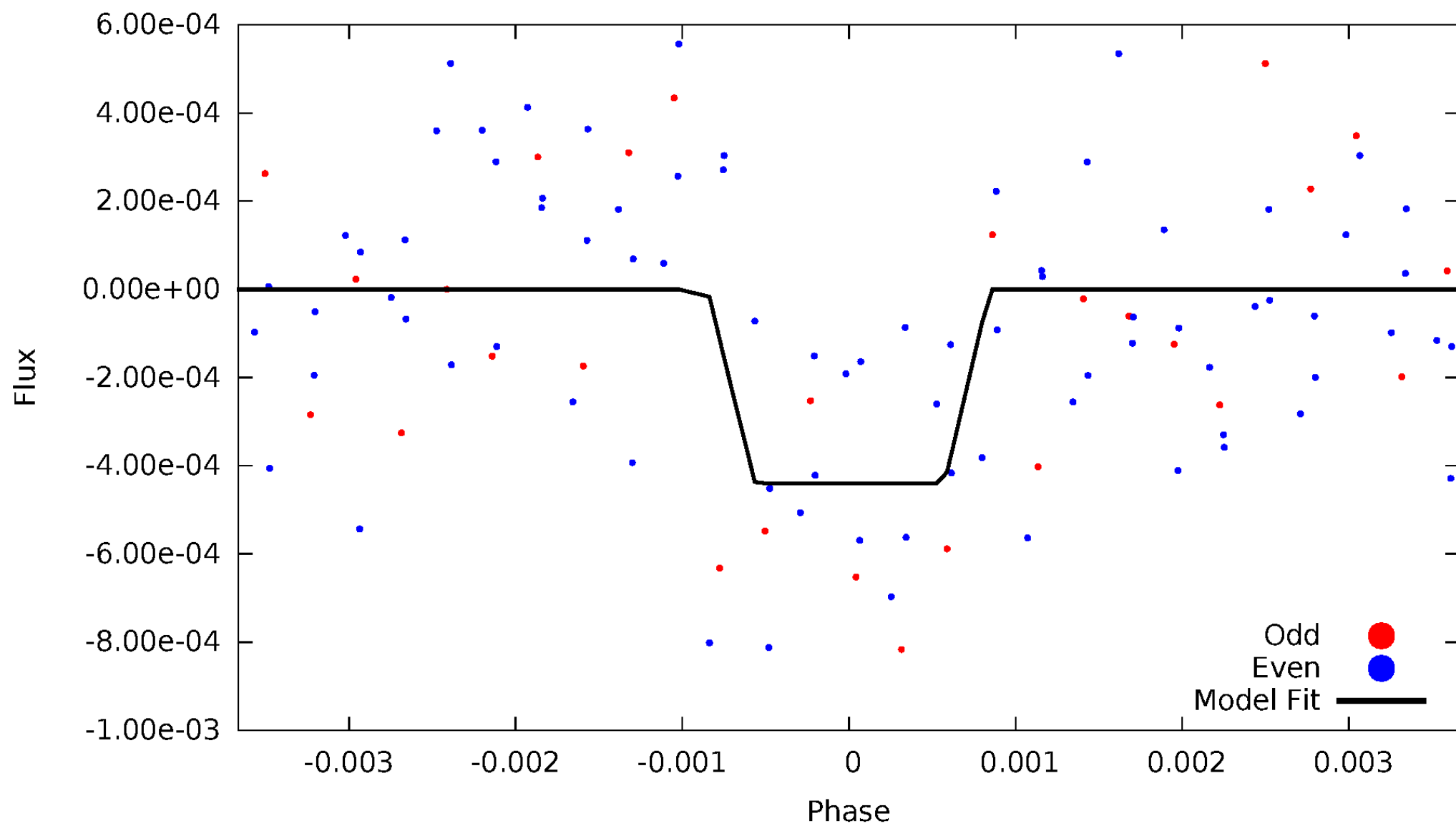
DV Odd/Even

TCE 009635815-01



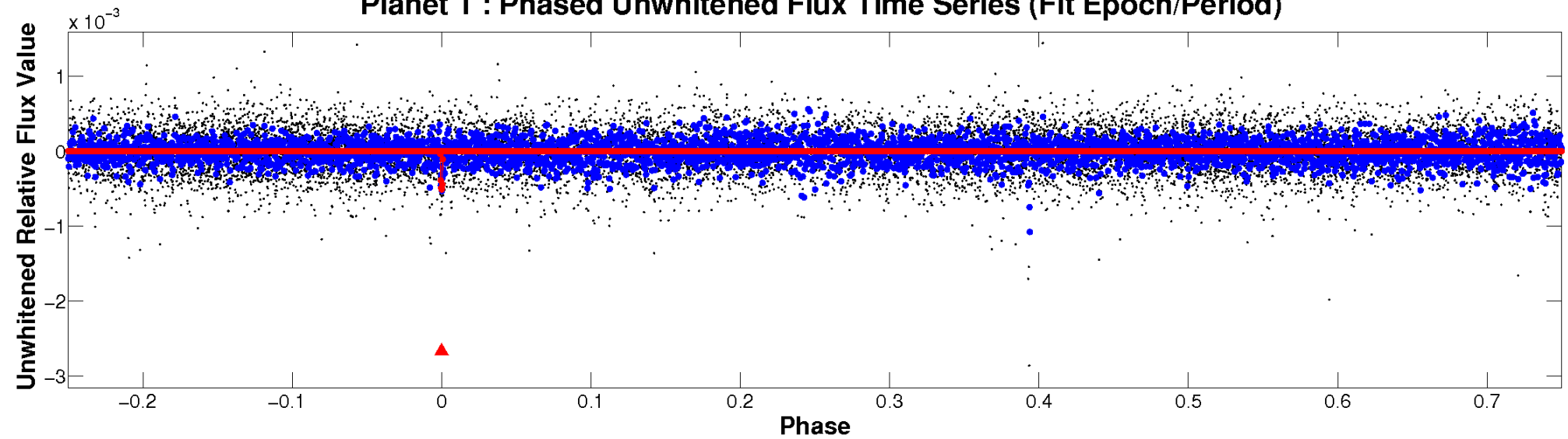
ALT Odd/Even

TCE 009635815-01

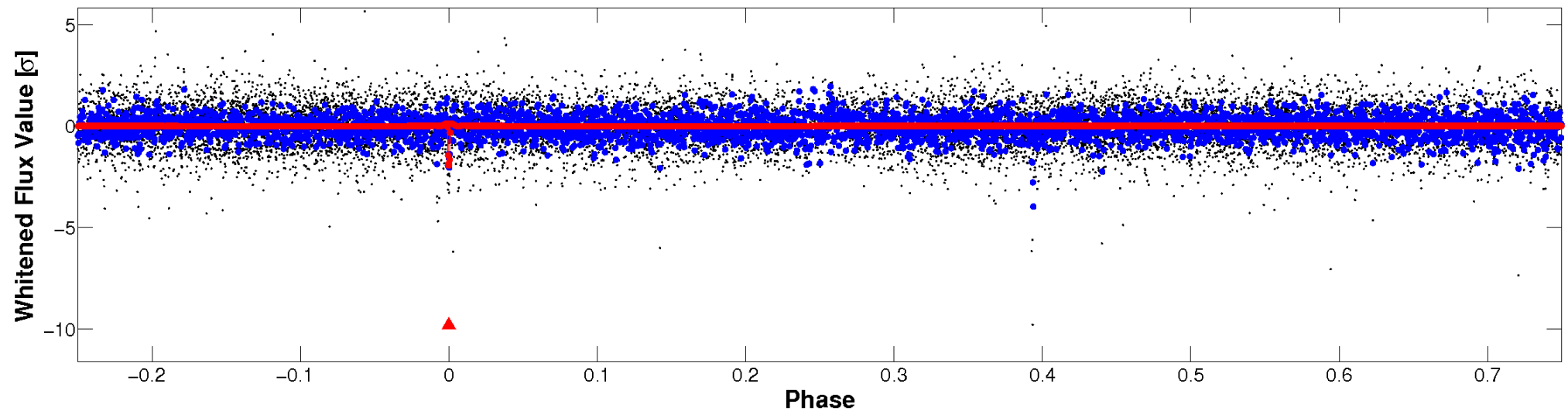


Non-Whitened Vs. Whitened Light Curve

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

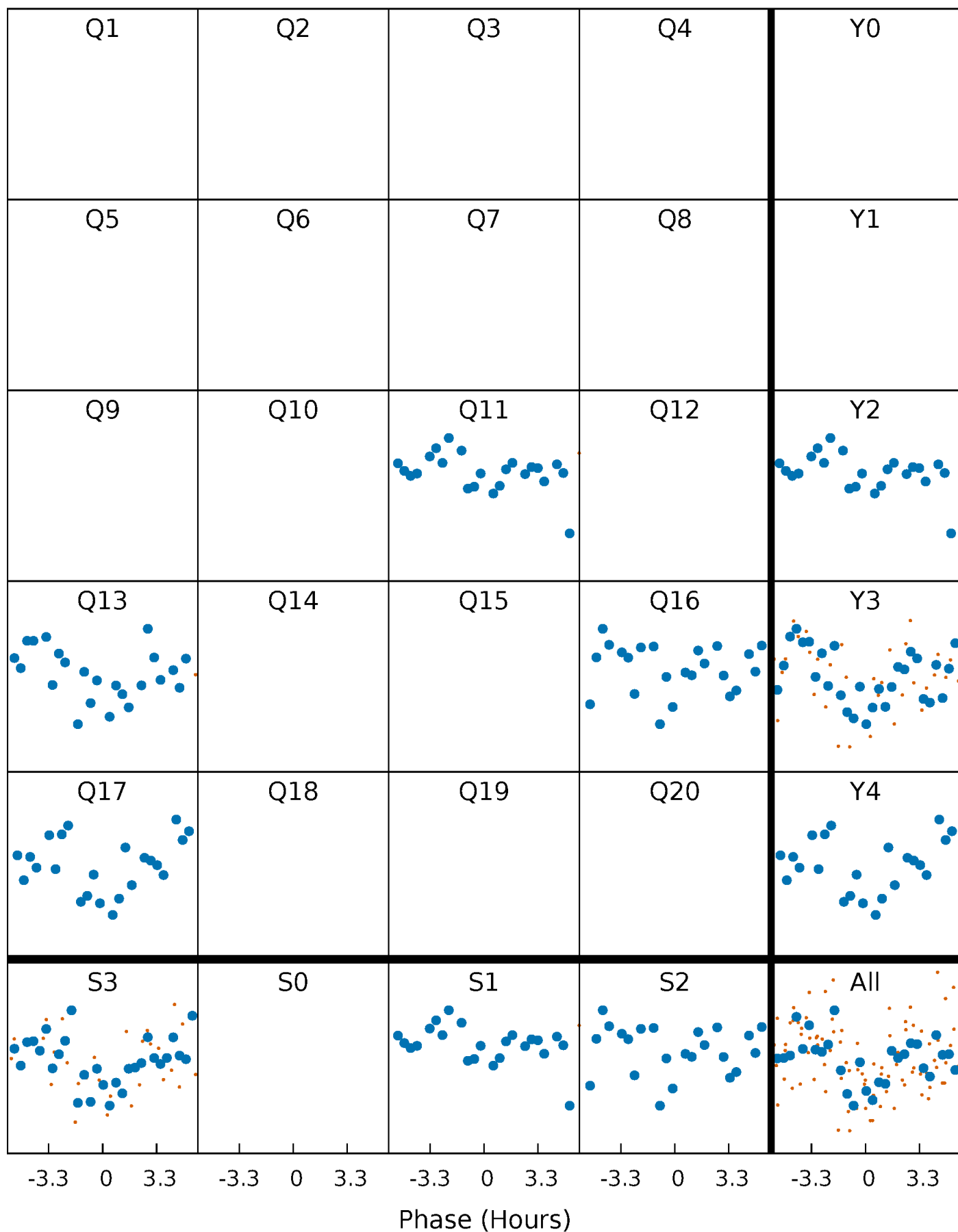


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



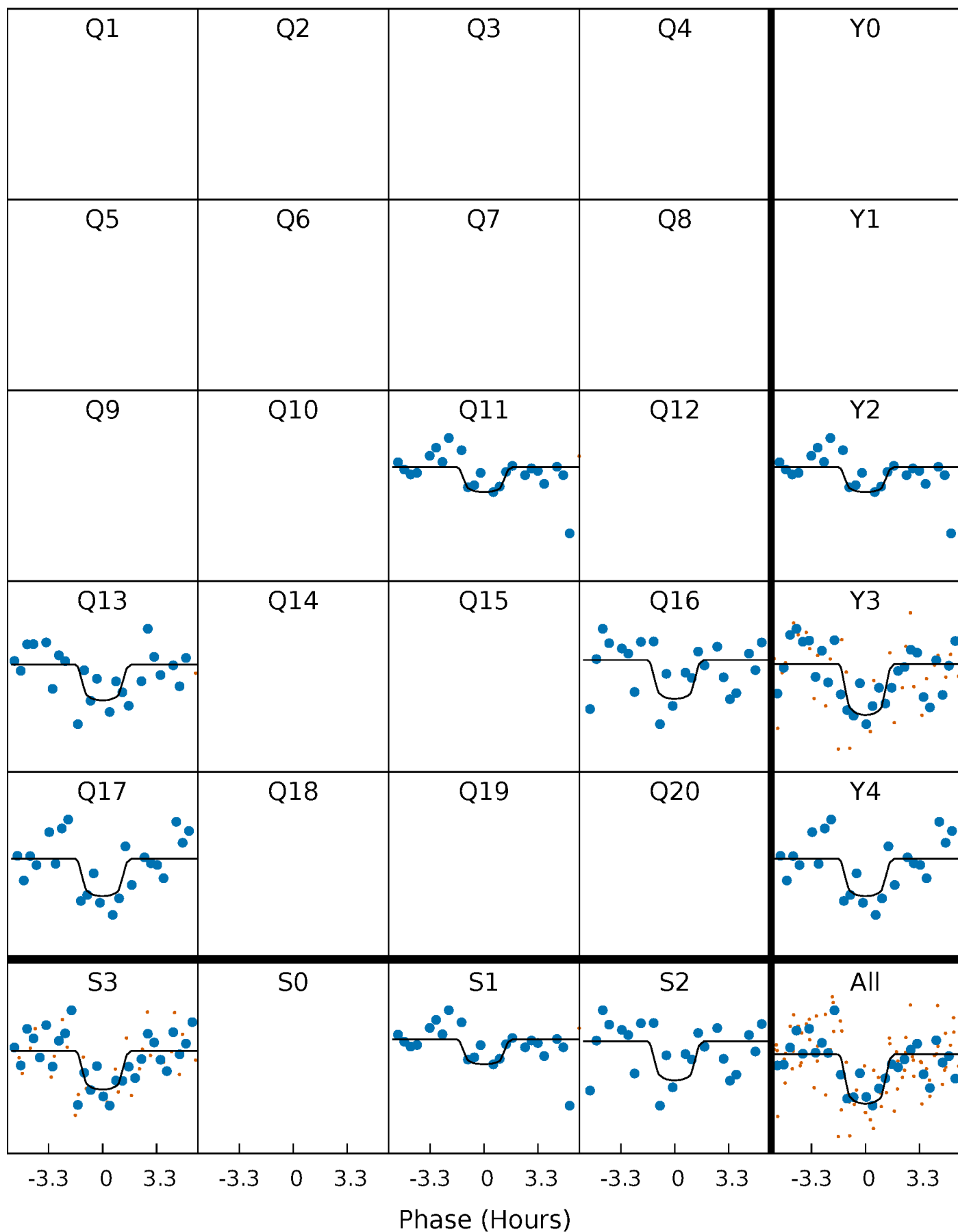
PDC Quarter-Phased Transit Curves

TCE 009635815-01 P= 74.912122 Days $T_0=153.592657$ (BKJD)



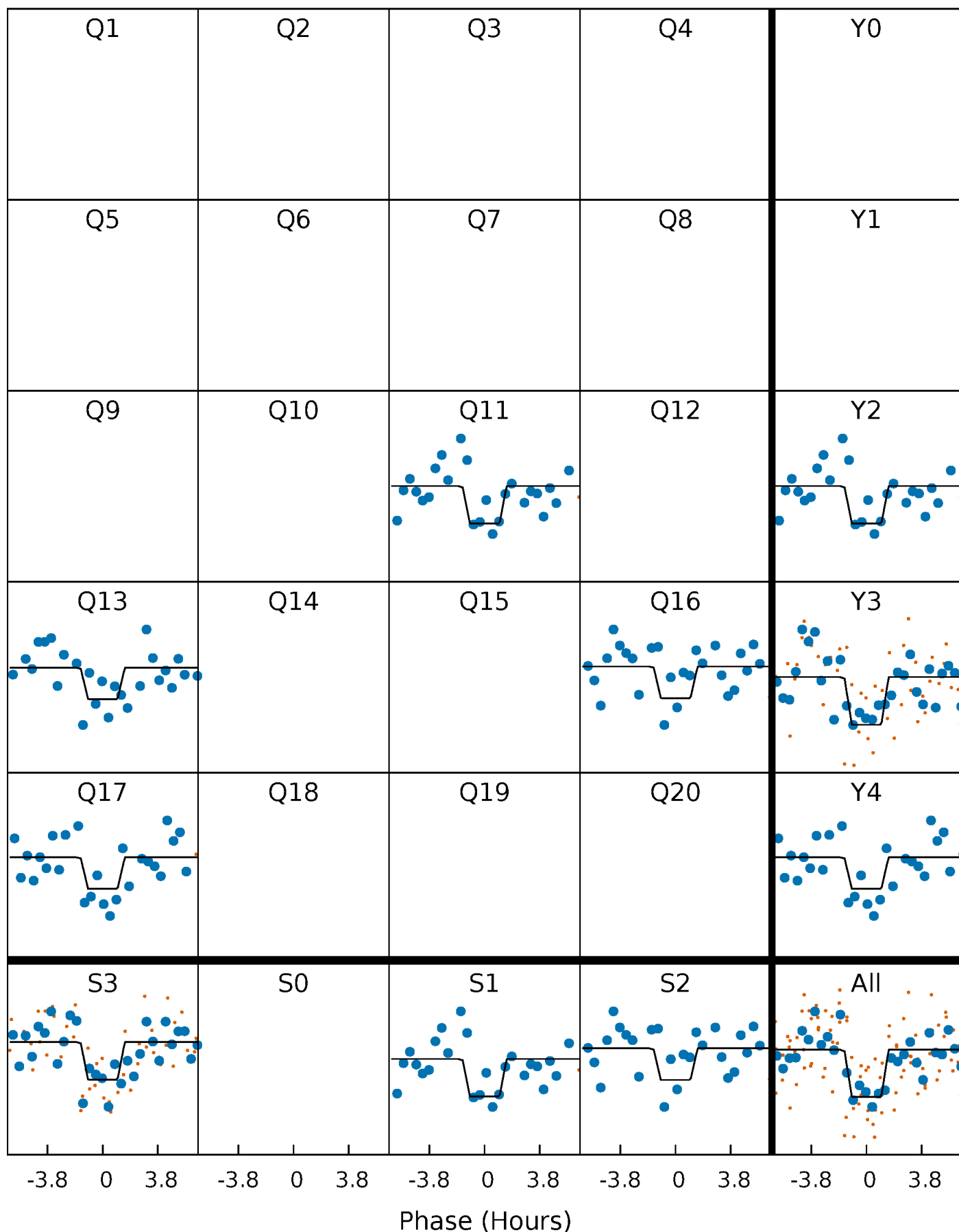
DV Quarter-Phased Transit Curves

TCE 009635815-01 P= 74.912122 Days $T_0=153.592657$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

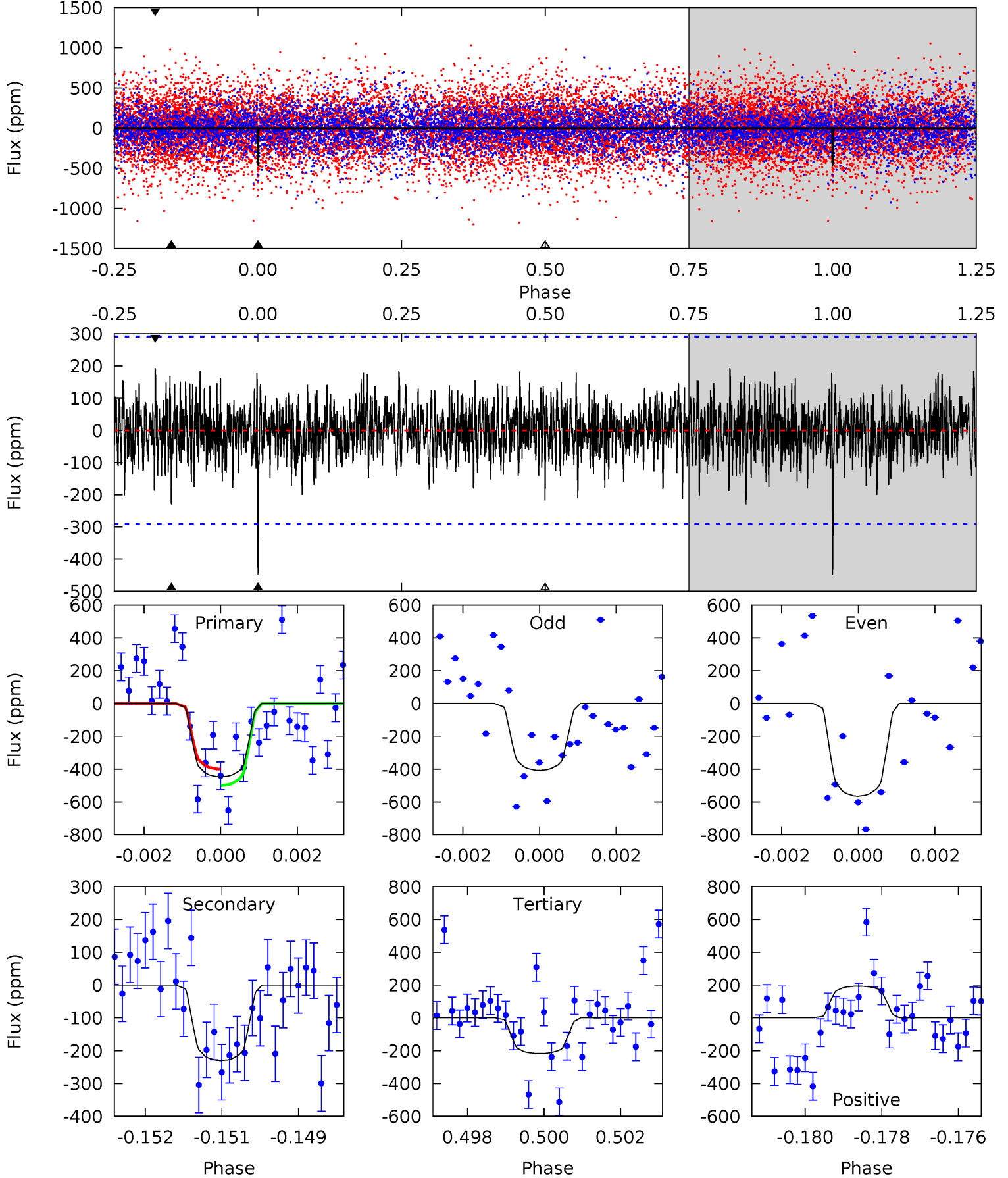
TCE 009635815-01 P= 74.912750 Days $T_0=153.577118$ (BKJD)



DV Model-Shift Uniqueness Test

009635815-01, P = 74.912122 Days, E = 153.592657 Days

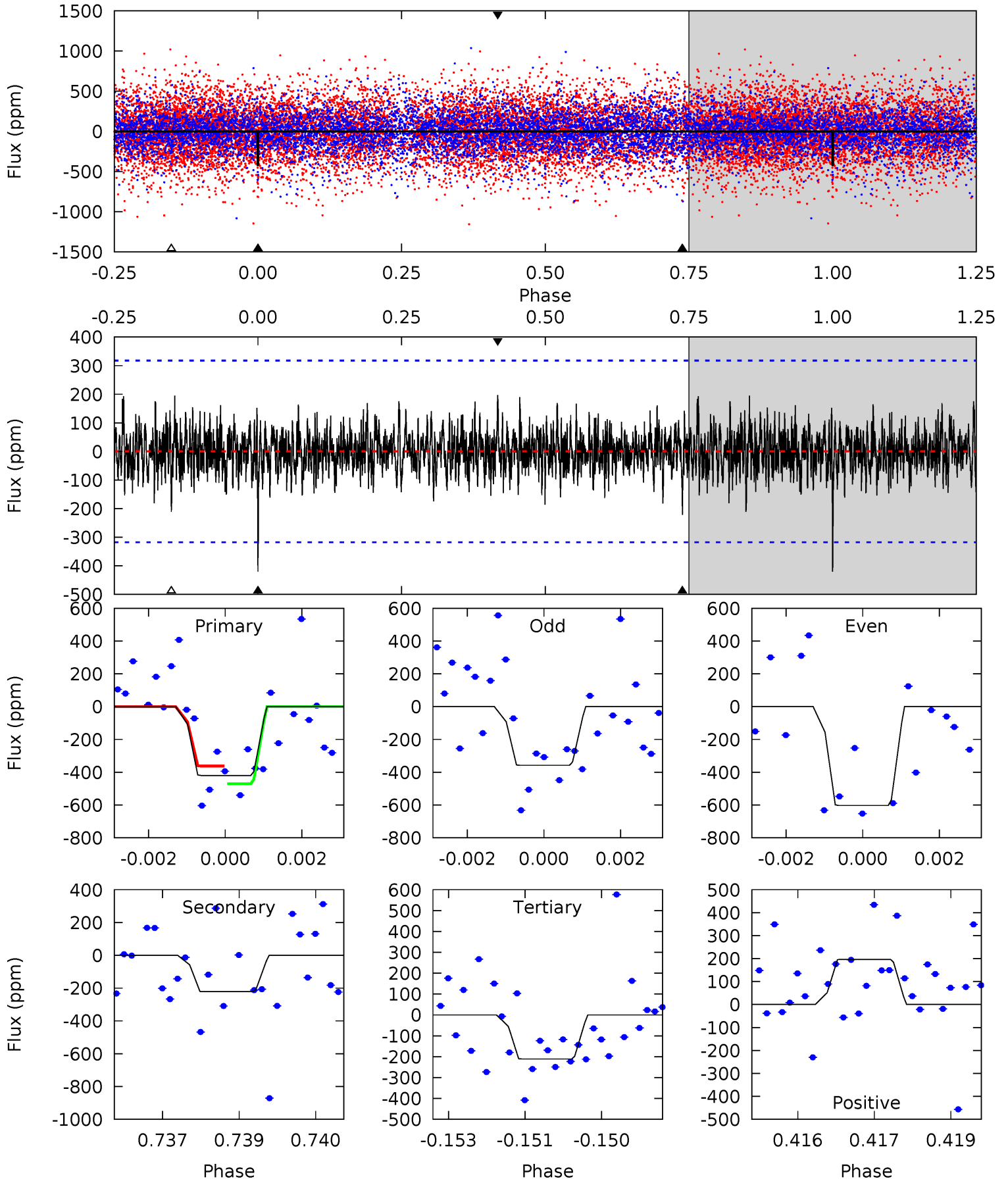
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.21	4.22	3.99	3.56	5.34	3.12	1.15	4.22	4.66	0.23	0.66	1.29	1.06	0.30	0.93



Alt Model-Shift Uniqueness Test

009635815-01, P = 74.912750 Days, E = 153.577118 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.09	3.75	3.57	3.32	5.37	3.16	0.99	3.53	3.77	0.18	0.43	1.73	1.13	0.32	0.92



Stellar Parameters For KIC 009635815

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6564^{+181}_{-250}	$4.261^{+0.108}_{-0.201}$	$-0.080^{+0.250}_{-0.300}$	$1.364^{+0.452}_{-0.243}$	$1.240^{+0.188}_{-0.188}$	$0.688^{+0.415}_{-0.346}$
	+3%/-4%	+3%/-5%	+312%/-375%	+33%/-18%	+15%/-15%	+60%/-50%
Source	KIC0	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 009635815-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-230 ± 55	$3.70^{+1.68}_{-1.47}$	782^{+57}_{-48}	5188^{+1457}_{-721}	1253^{+2134}_{-688}
Alt.	-222 ± 59	$3.16^{+1.57}_{-1.51}$	782^{+63}_{-49}	5513^{+2335}_{-863}	1675^{+4702}_{-965}

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 $A_{obs} \gg 1.0$

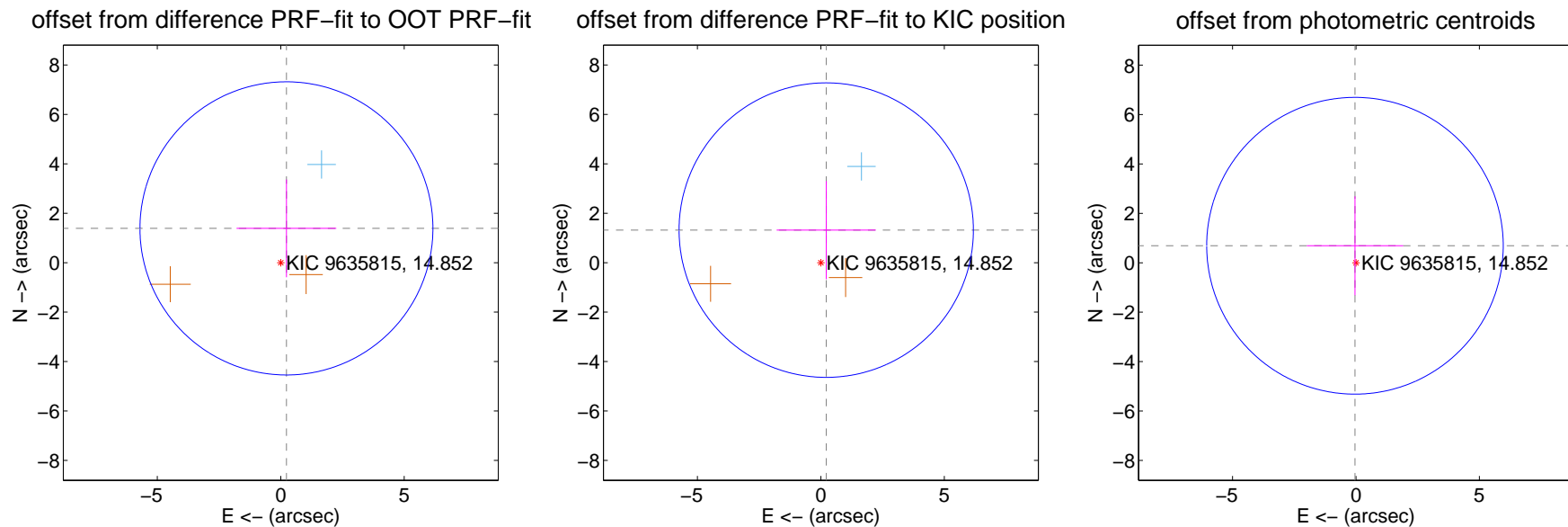
DV Centroid Data

Supplemental centroid analysis for 009635815-01. Kepler magnitude: 14.85. Transit SNR 7.86

There are 1 quarters with good PRF difference image offsets

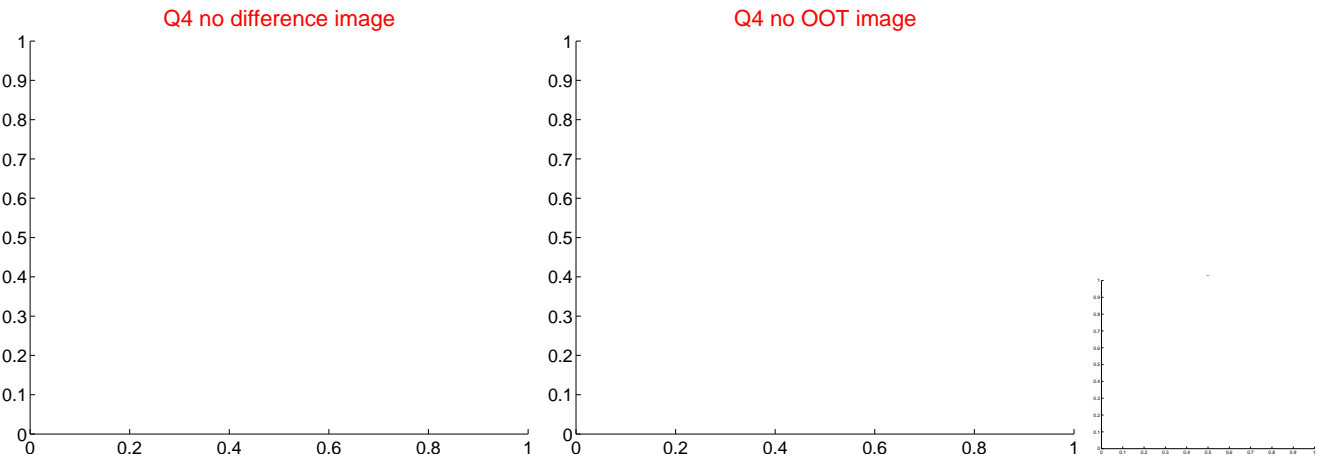
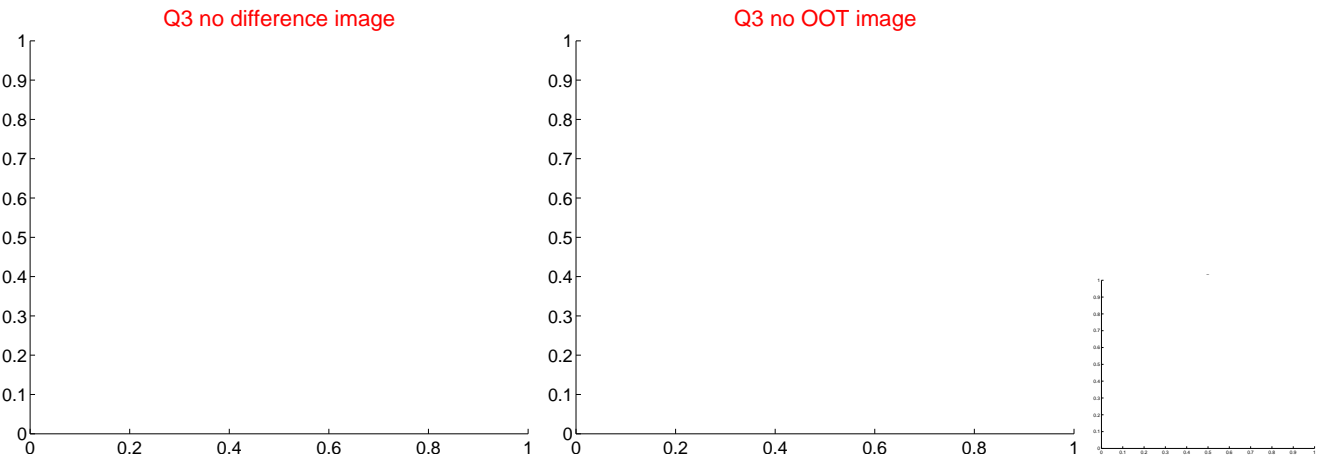
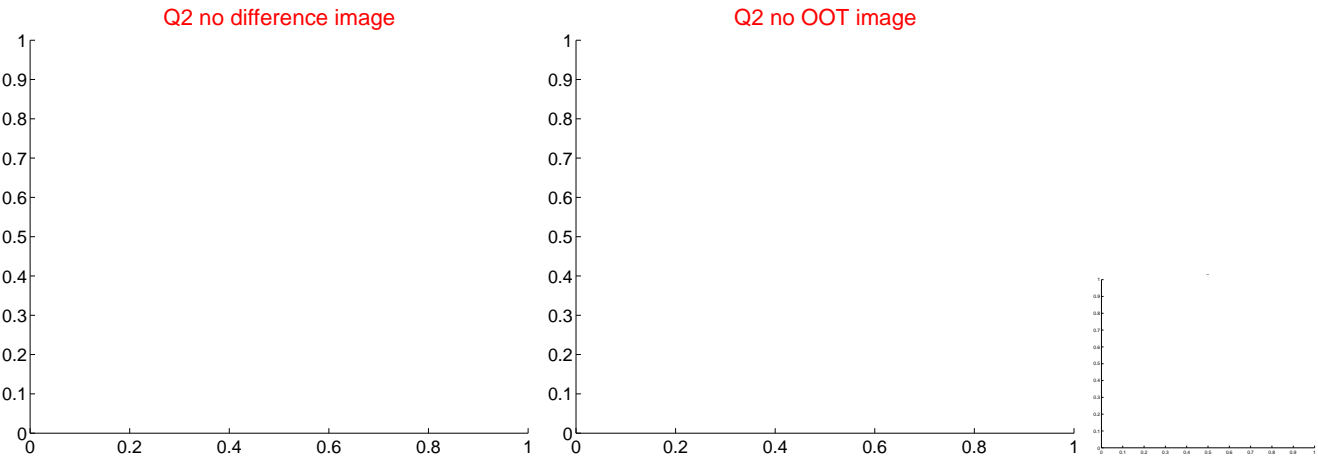
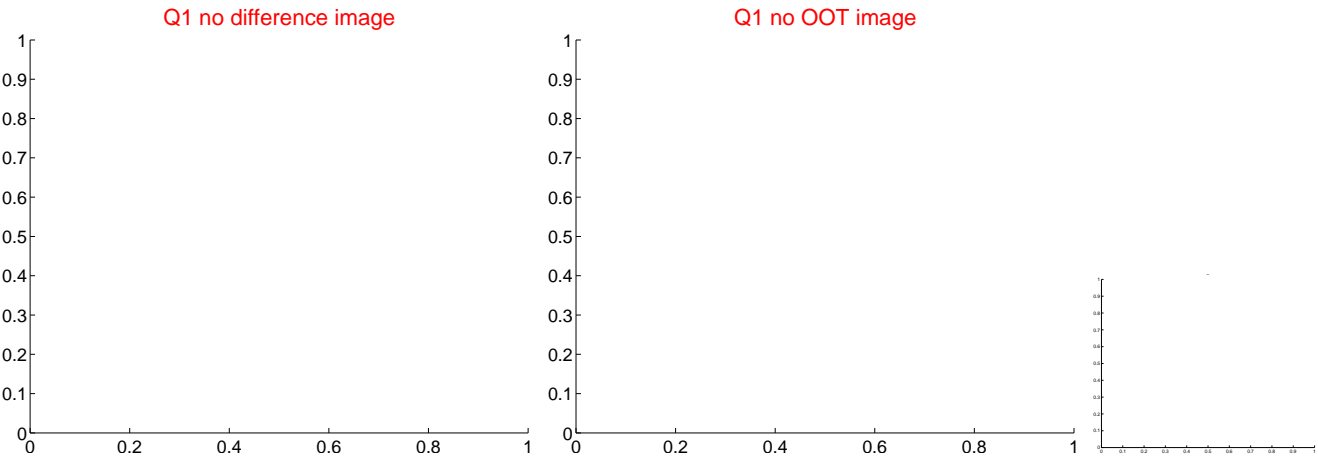
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.407 ± 1.977	0.71	-0.230 ± 2.019	1.388 ± 1.976
PRF-fit source offset from KIC position	1.336 ± 1.986	0.67	-0.217 ± 2.008	1.318 ± 1.985
photometric centroid source offset	0.69 ± 2.00	0.34	0.04 ± 1.95	0.69 ± 2.00

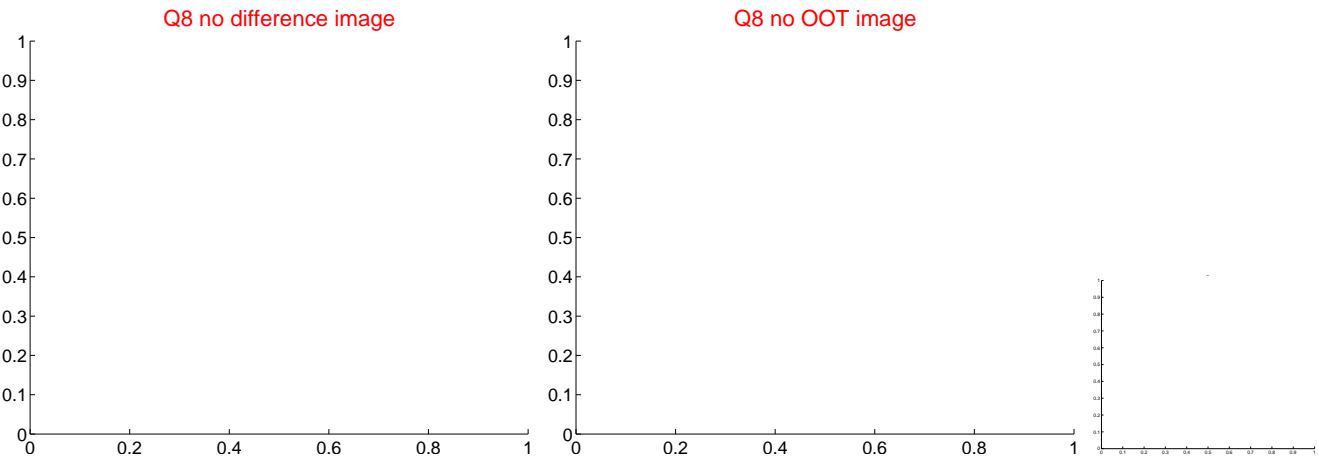
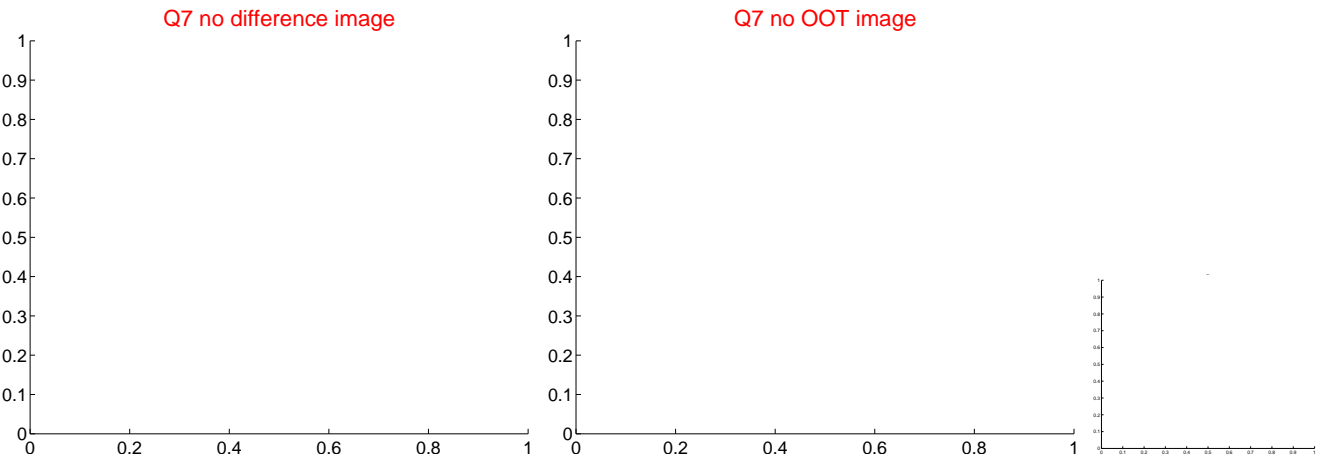
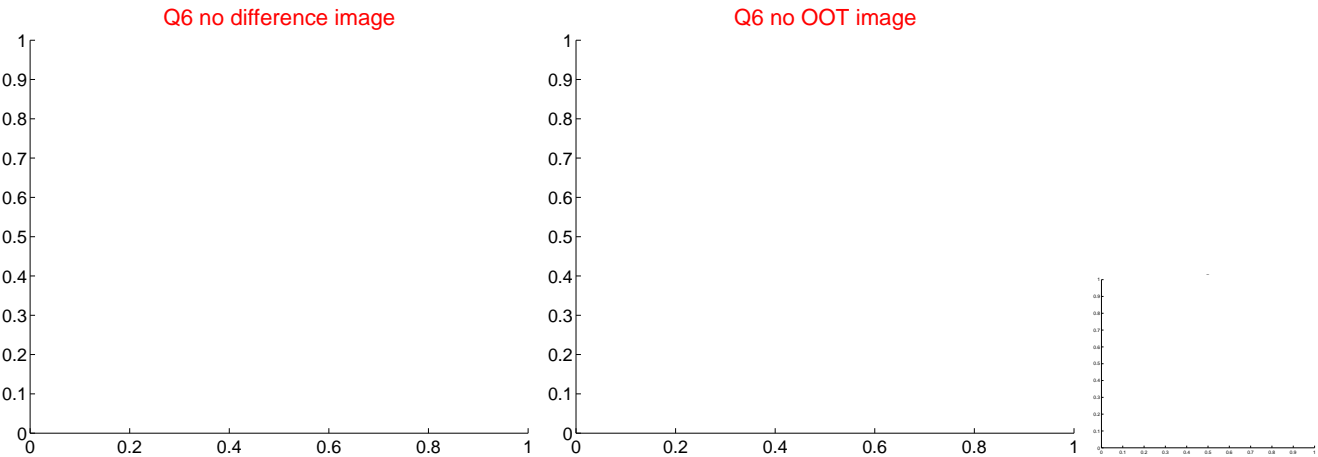
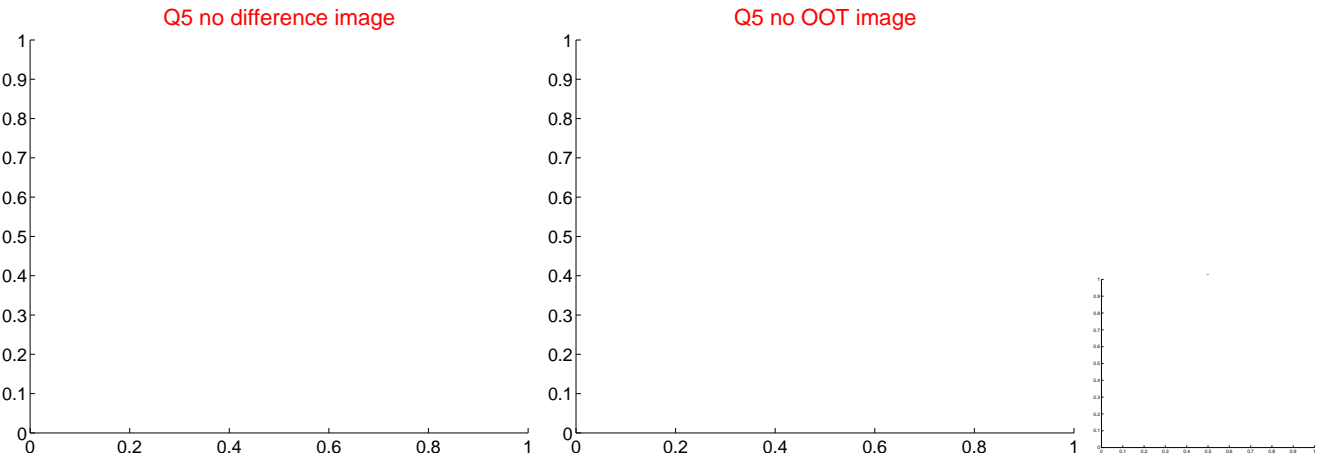


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

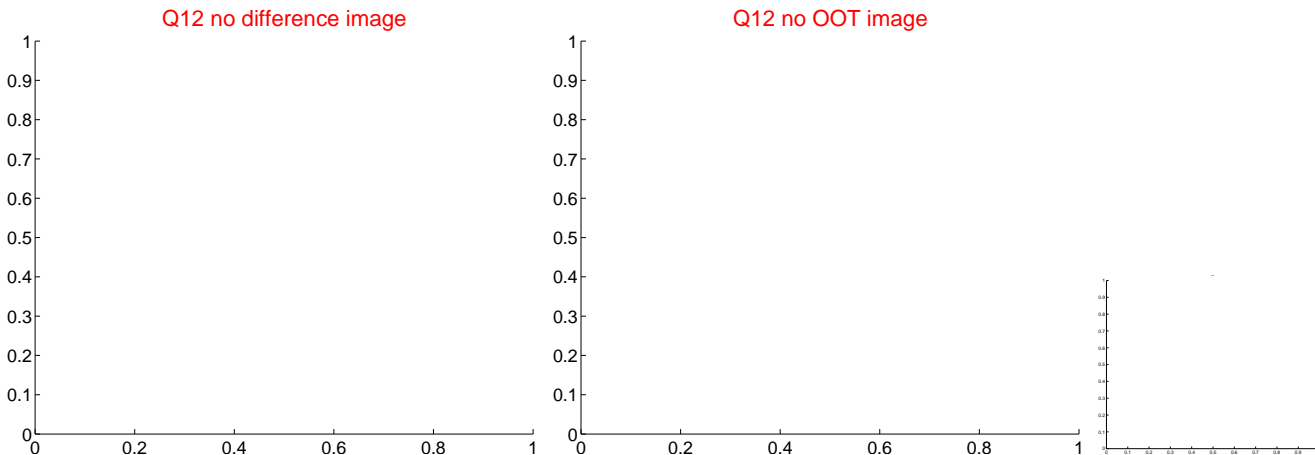
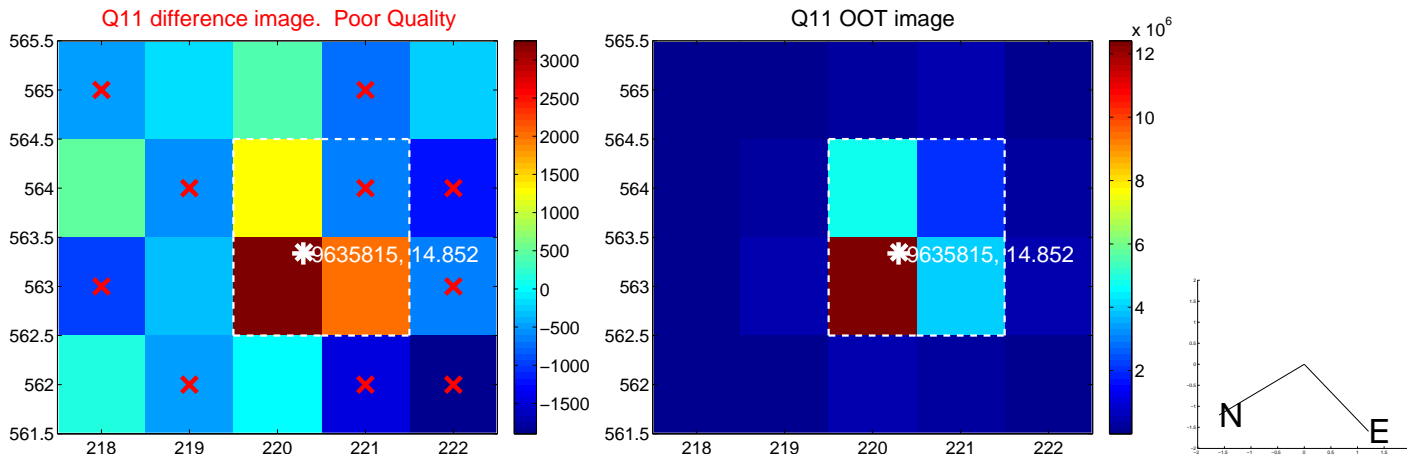
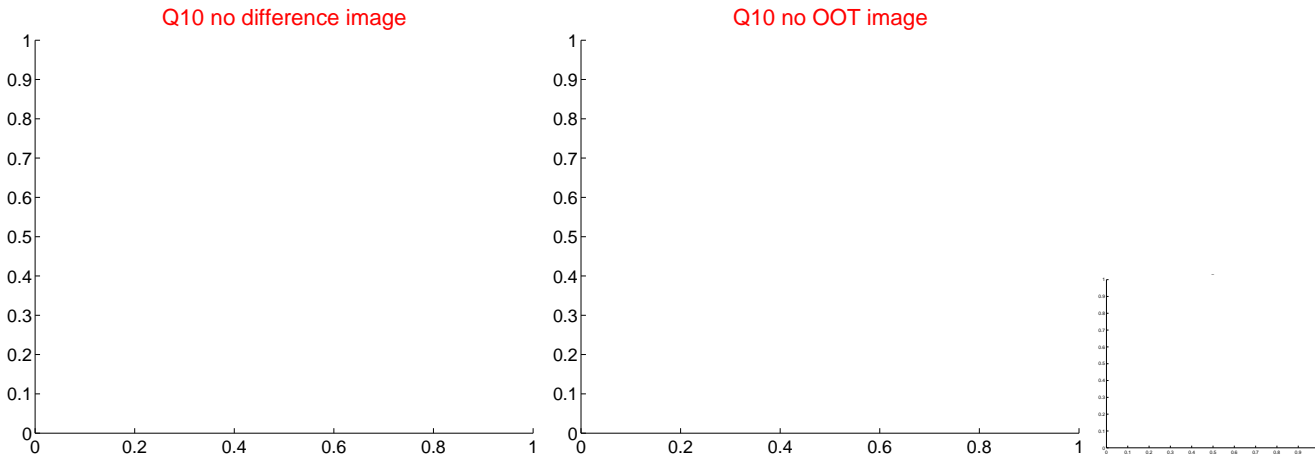
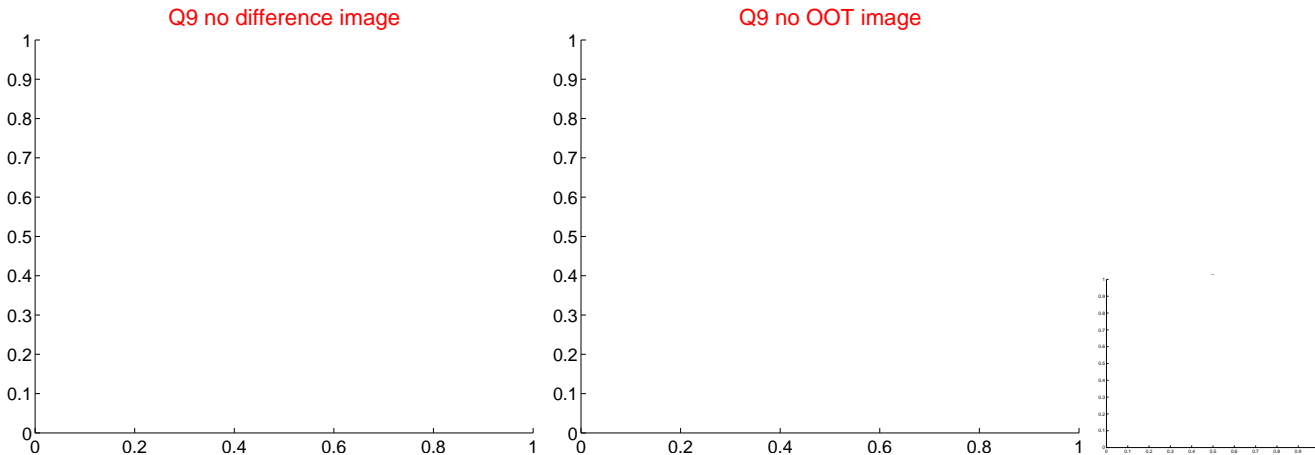
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



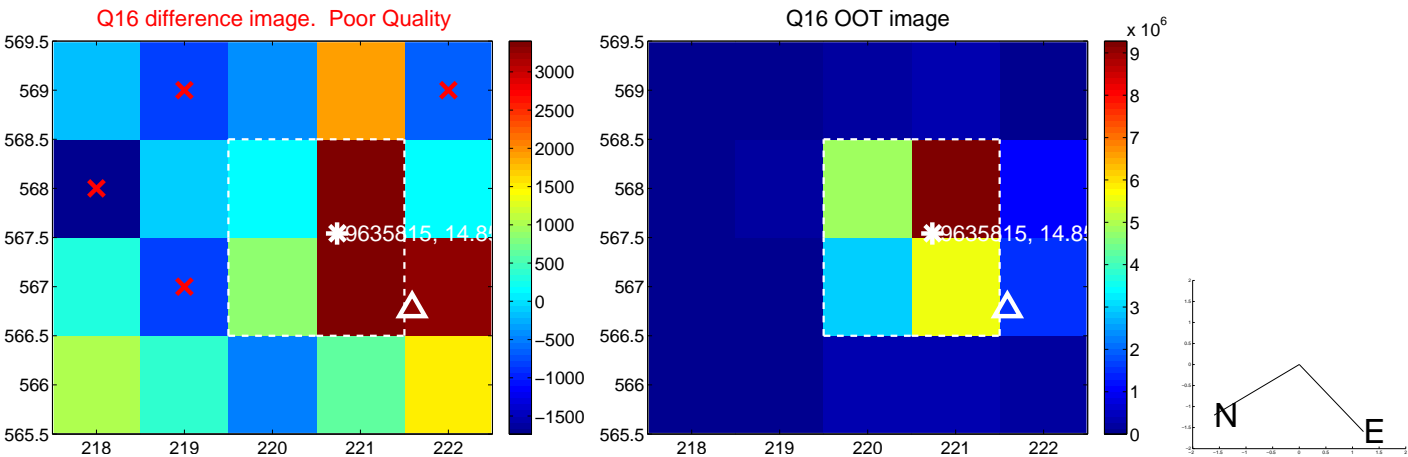
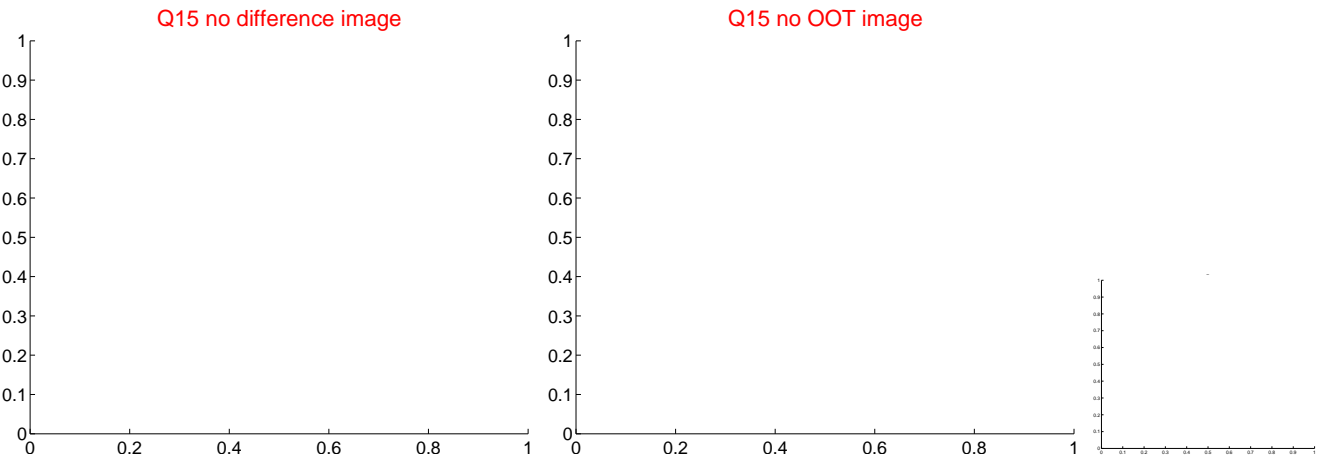
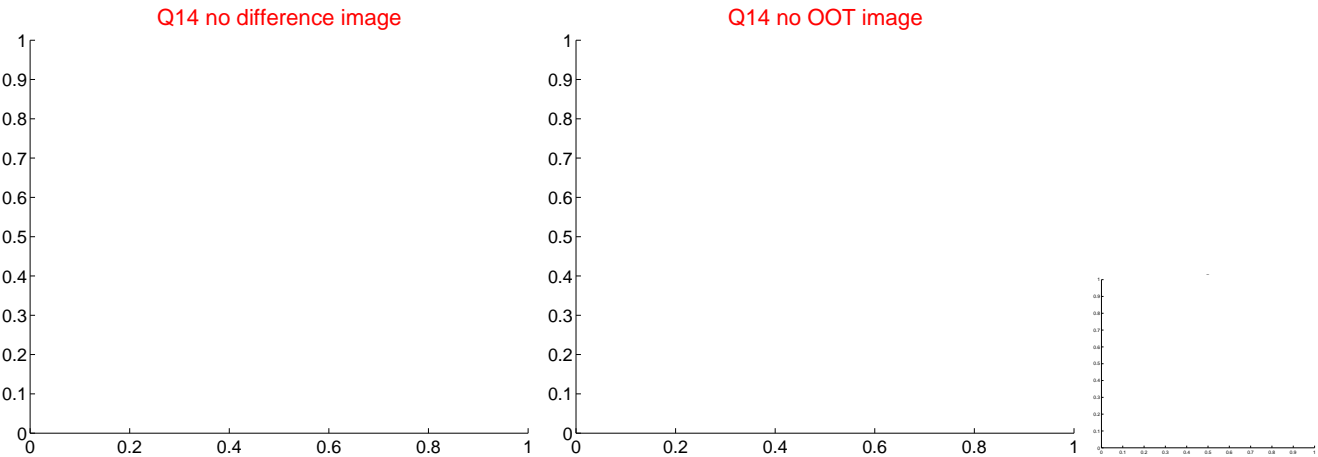
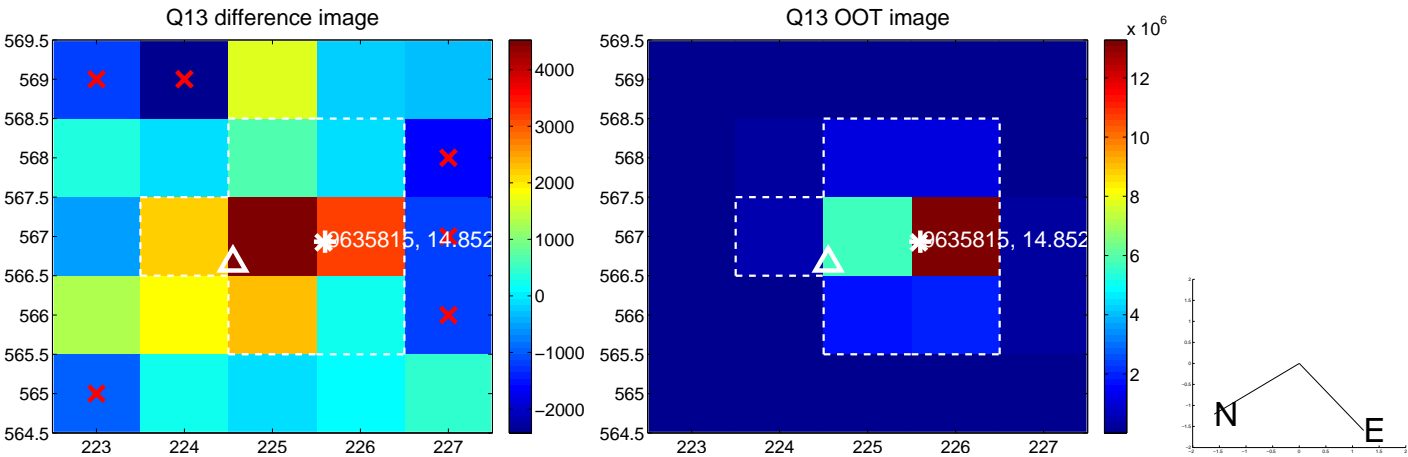
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



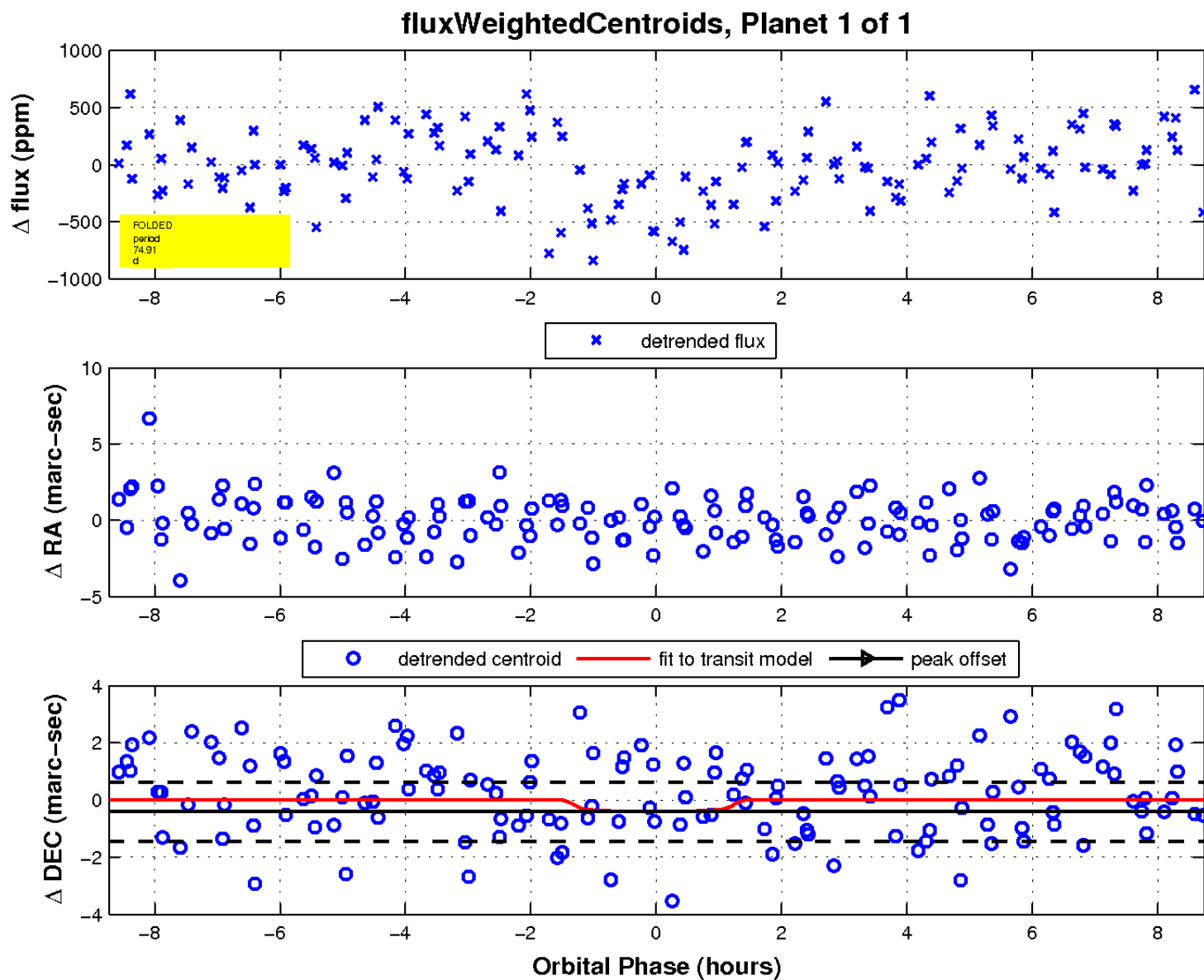
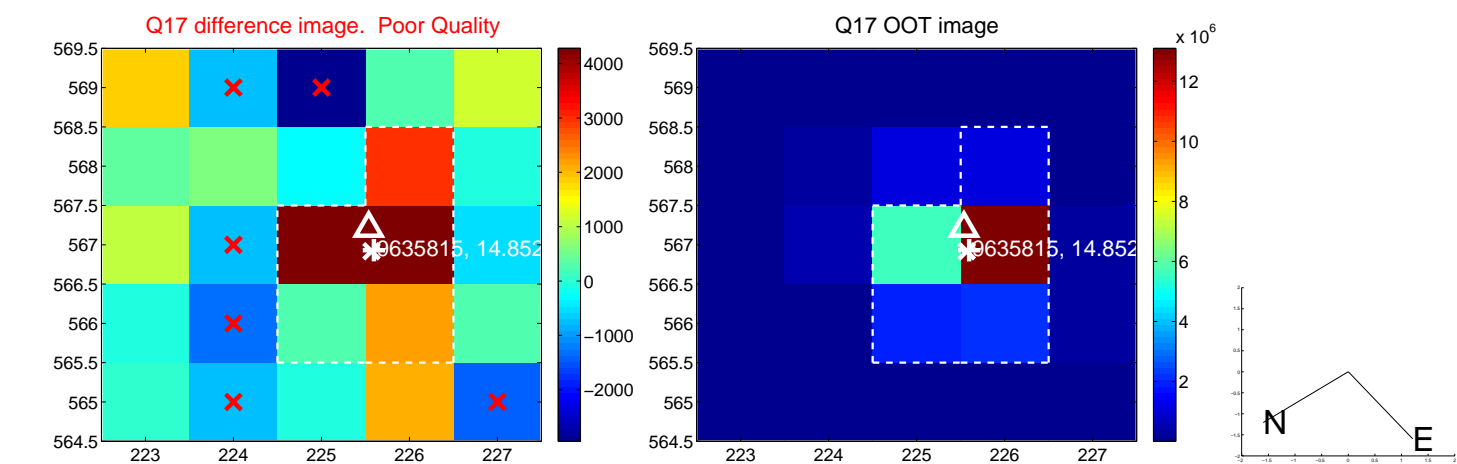
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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.



UKIRT Image

Declination

