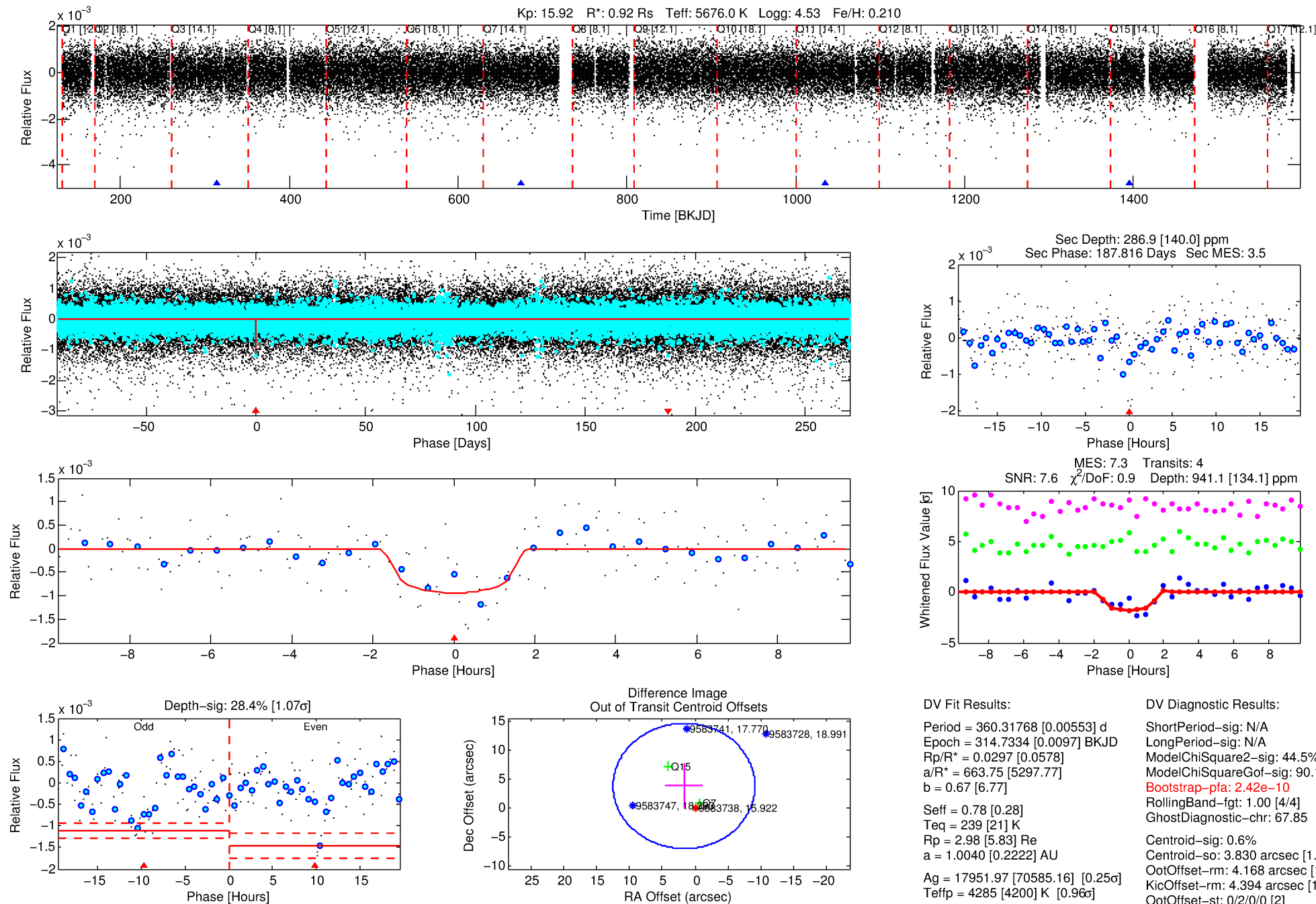


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 9583738 Candidate: 1 of 1 Period: 360.318 d

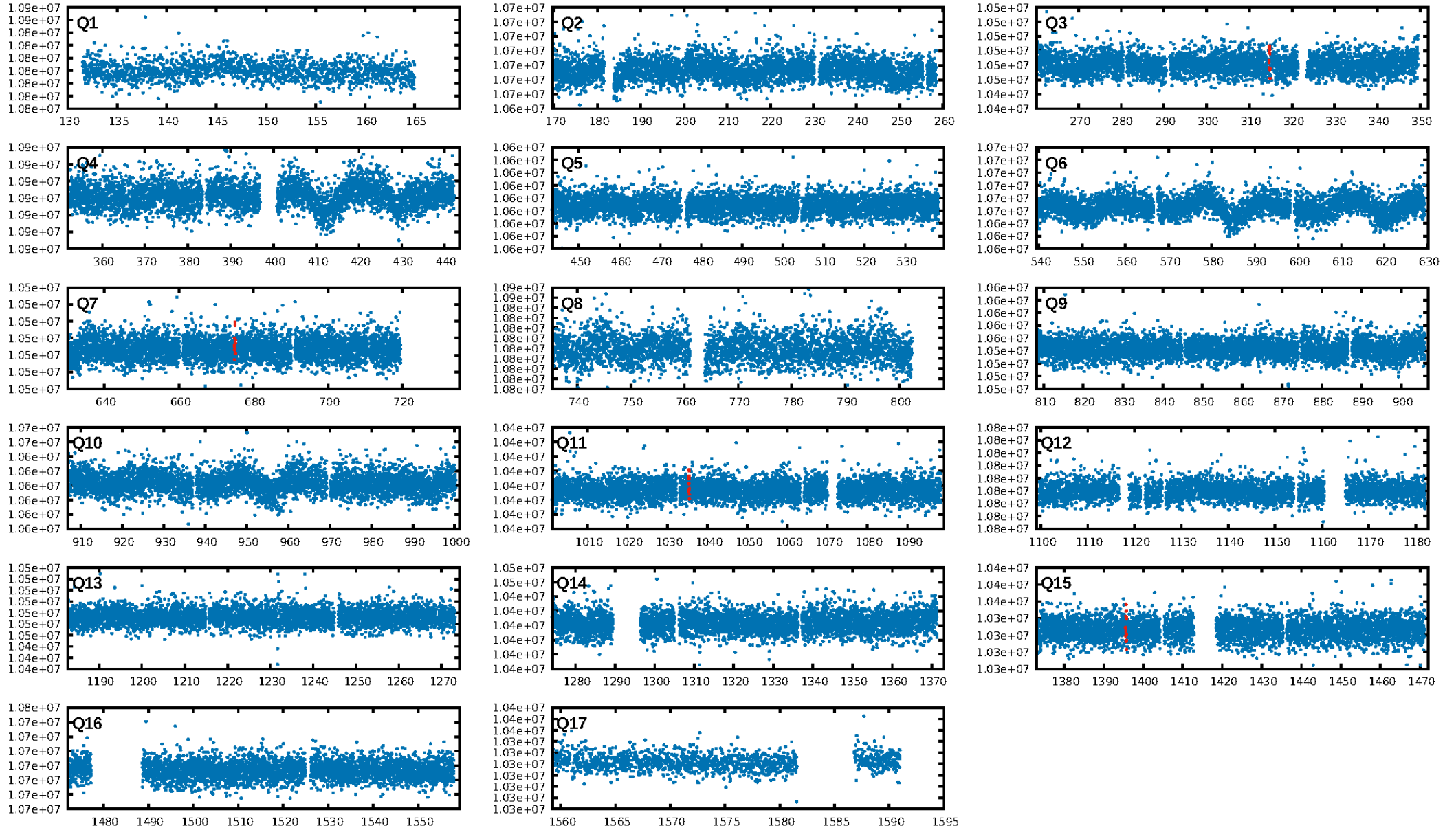
**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**



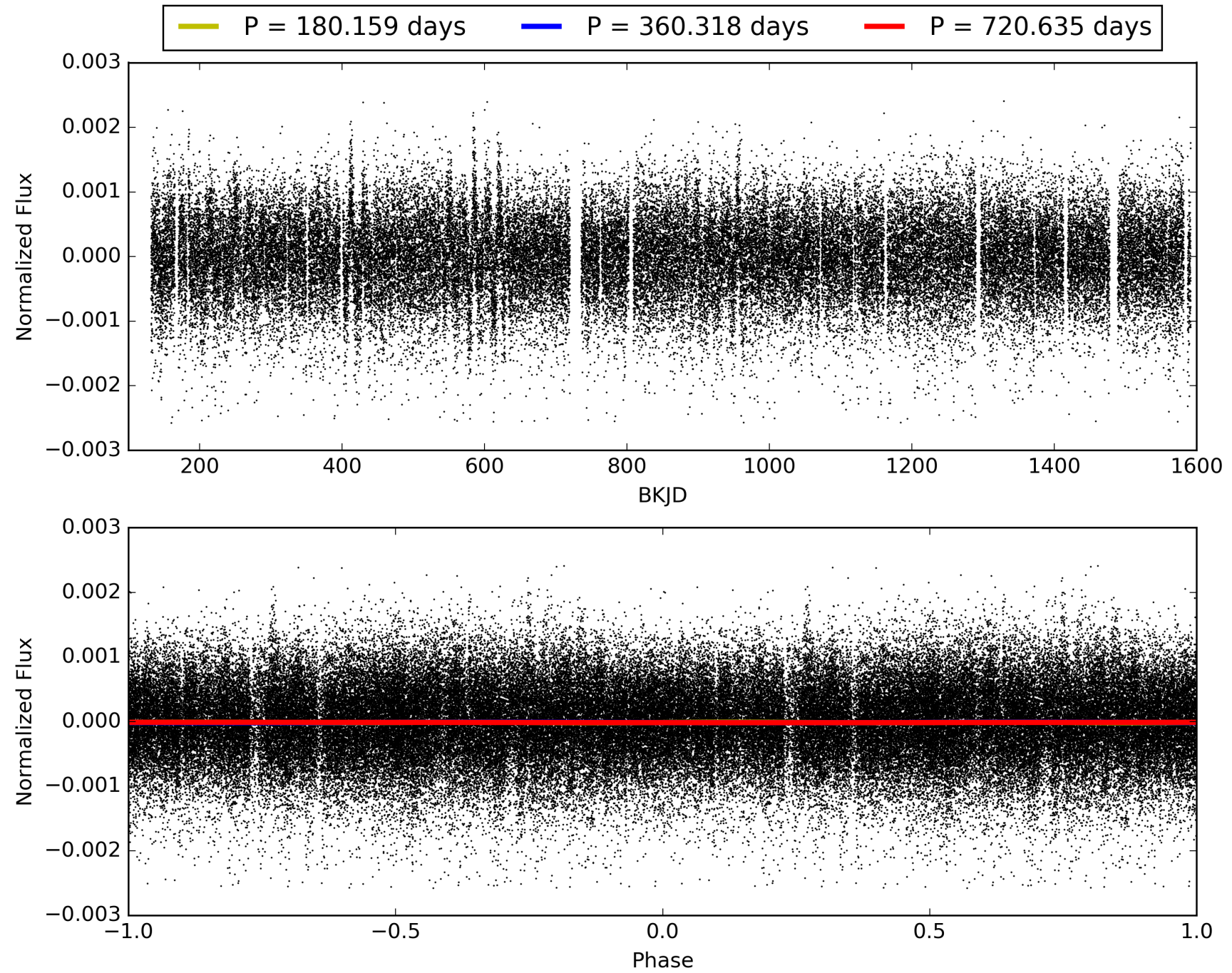
Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop-2320@61025 -- Date Generated: 03-Mar-2016 23:34:37 Z

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

TCE 009583738-01, PDC Light Curves

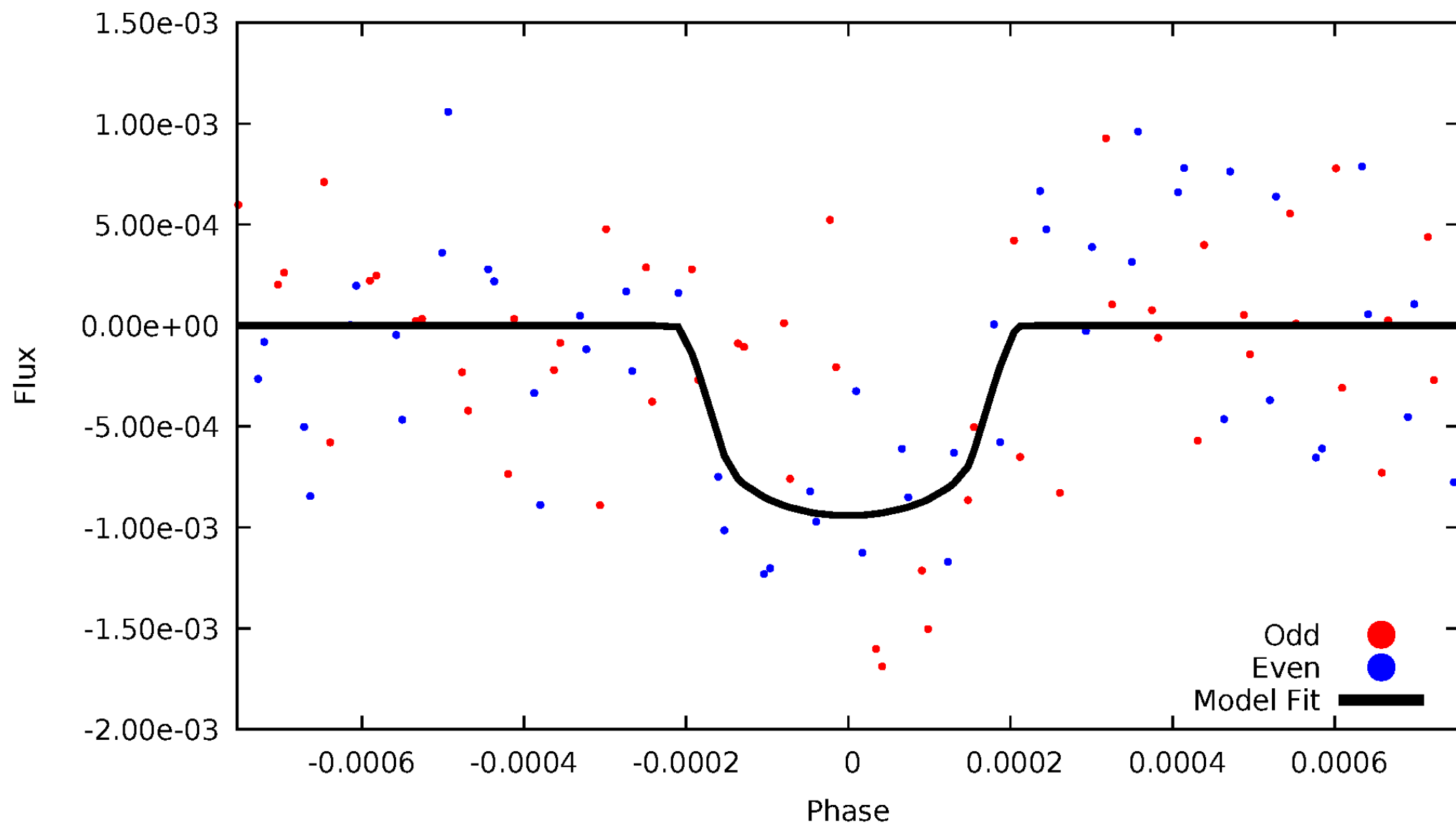


TCE 009583738-01



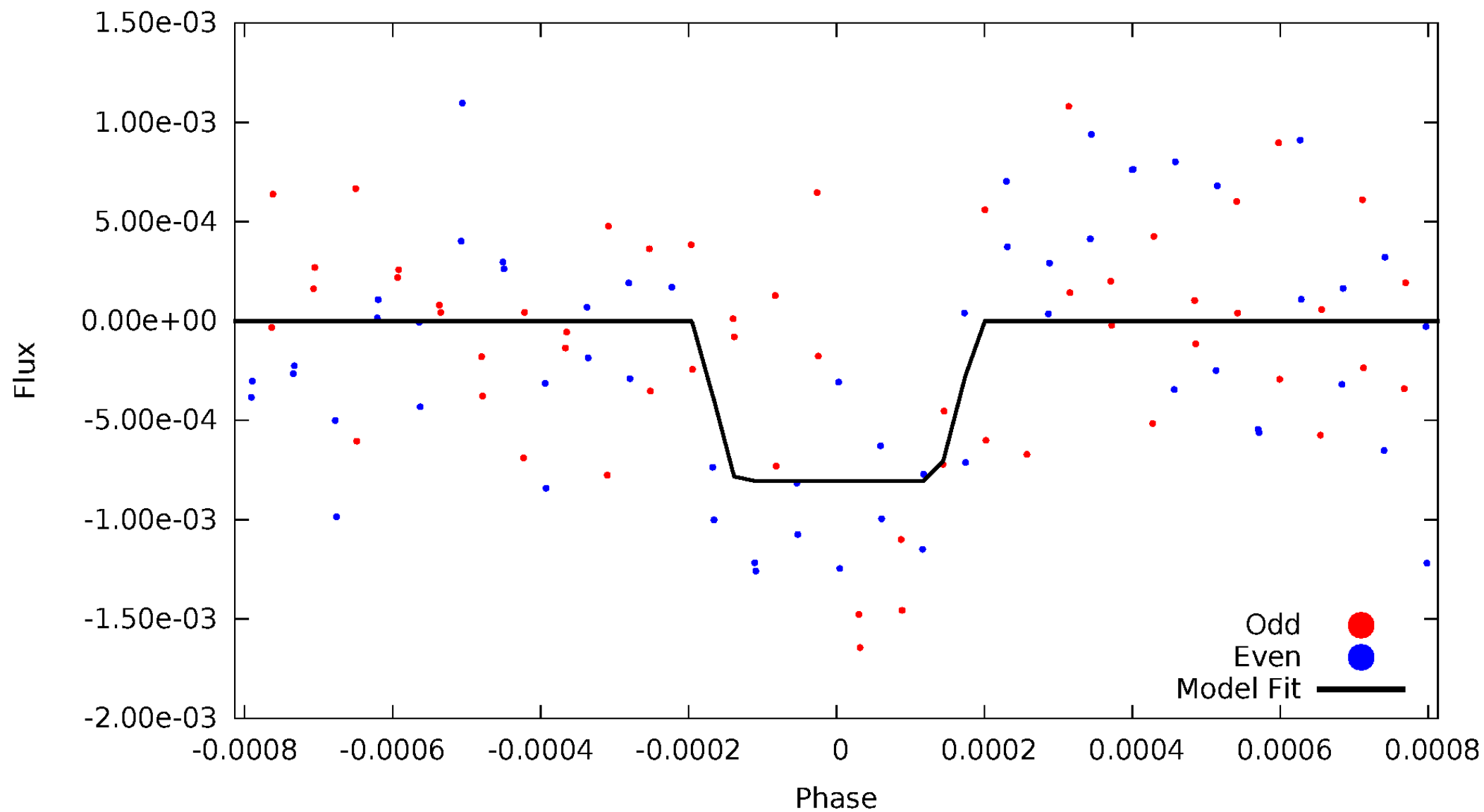
DV Odd/Even

TCE 009583738-01



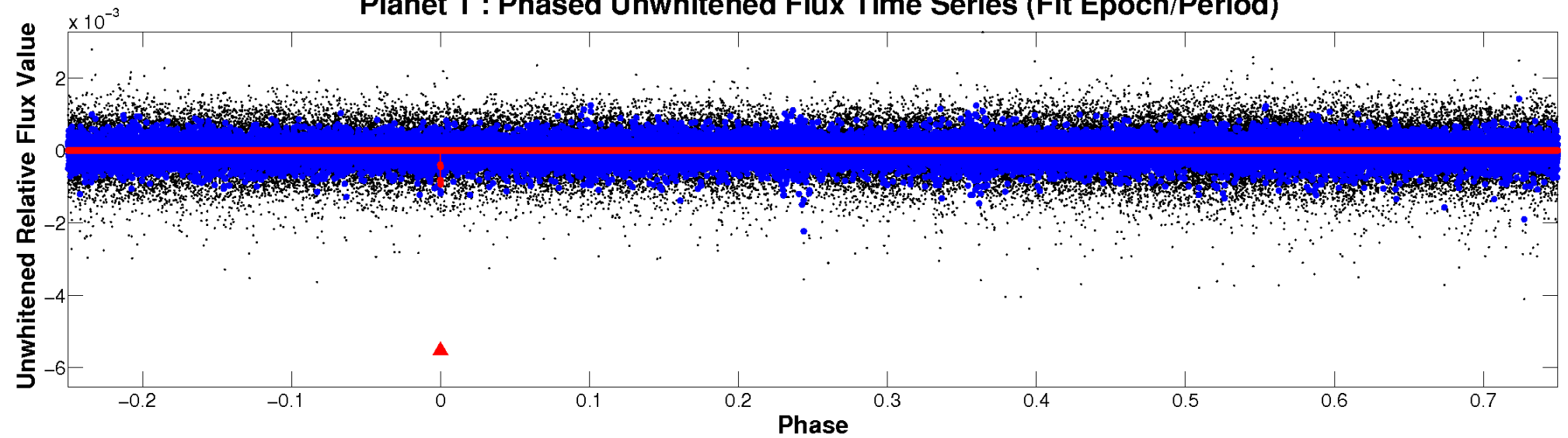
ALT Odd/Even

TCE 009583738-01

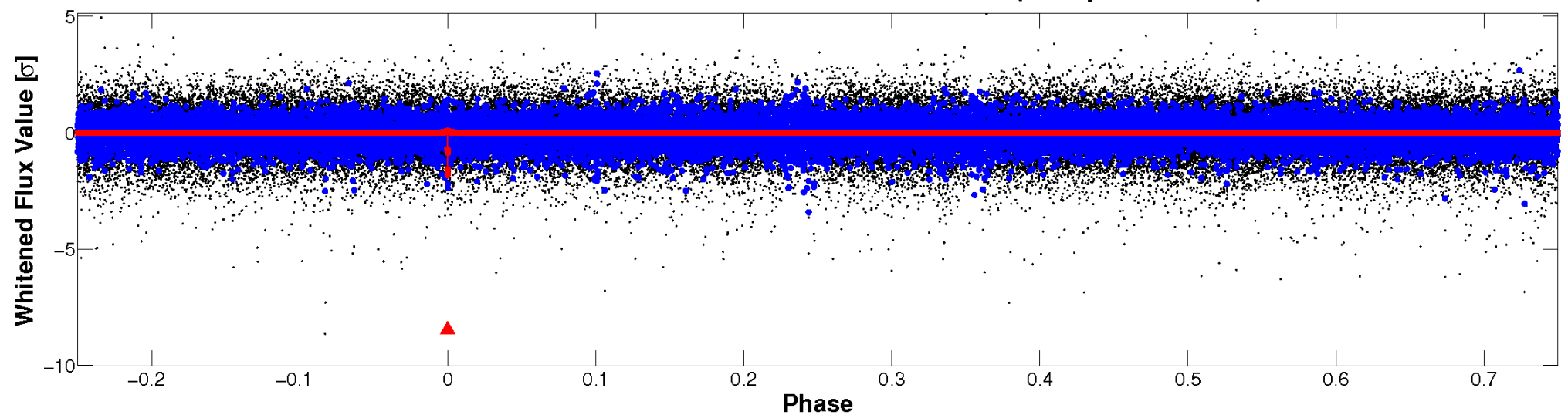


Non-Whitened Vs. Whitened Light Curve

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

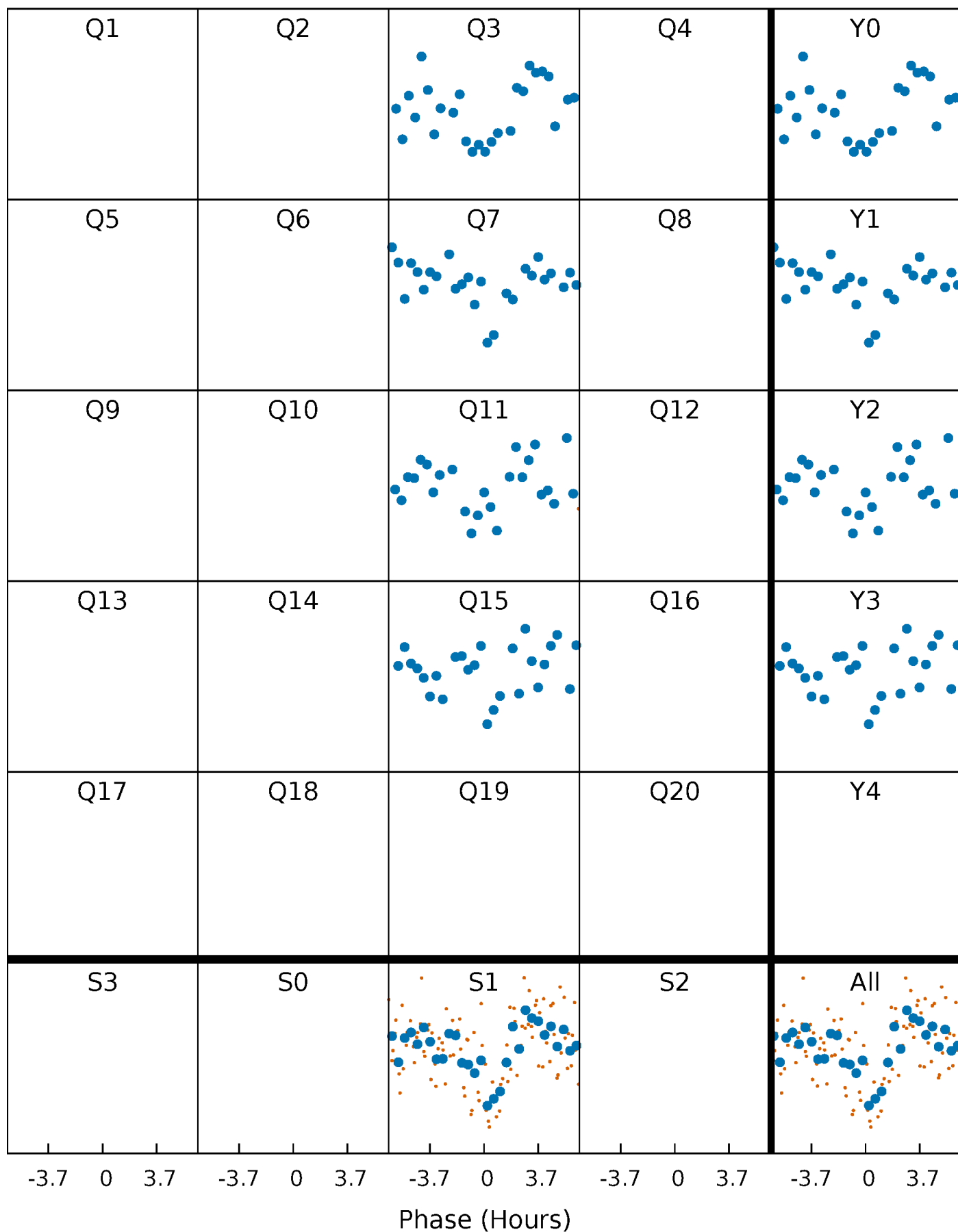


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



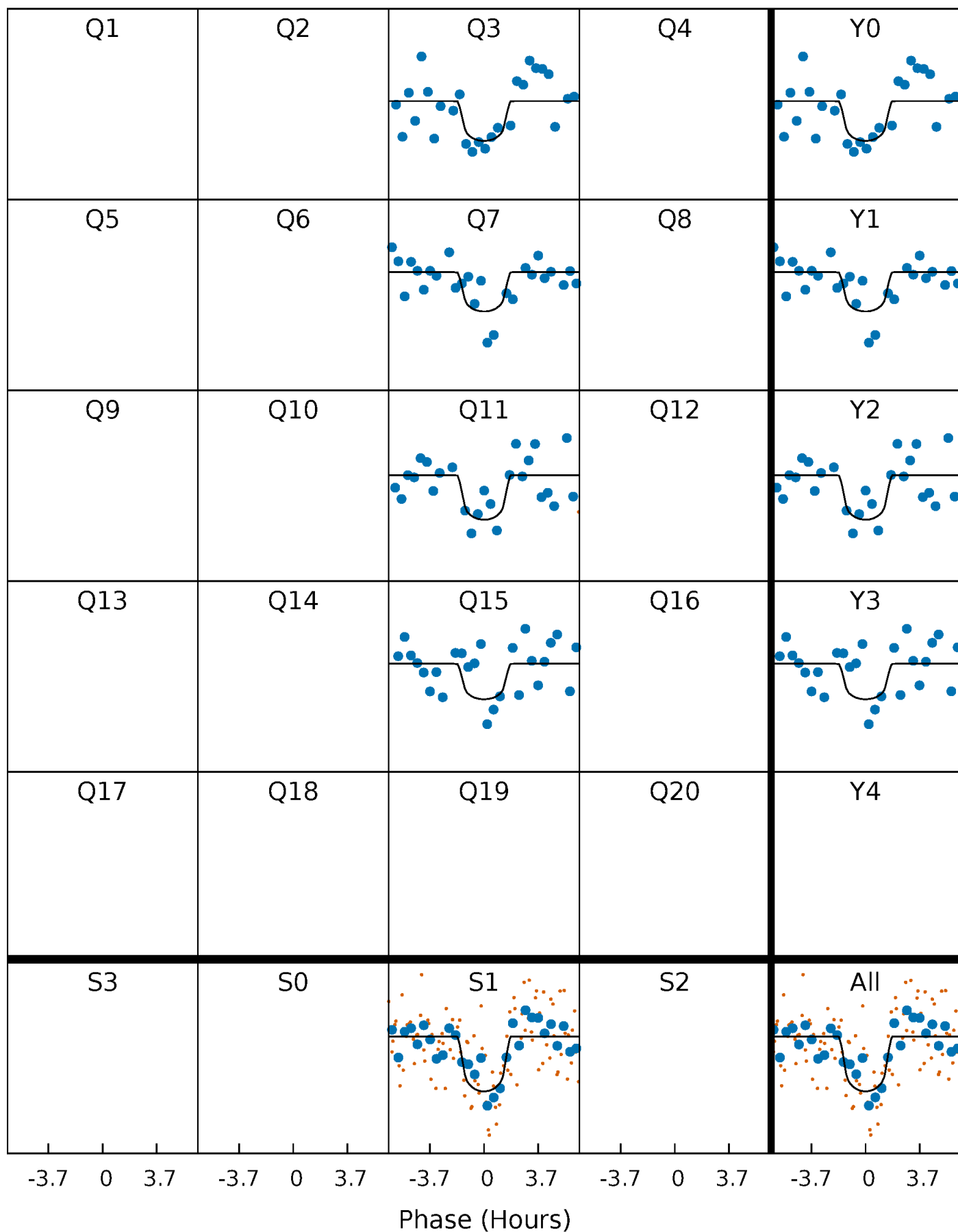
PDC Quarter-Phased Transit Curves

TCE 009583738-01 P=360.317676 Days $T_0=314.733381$ (BKJD)



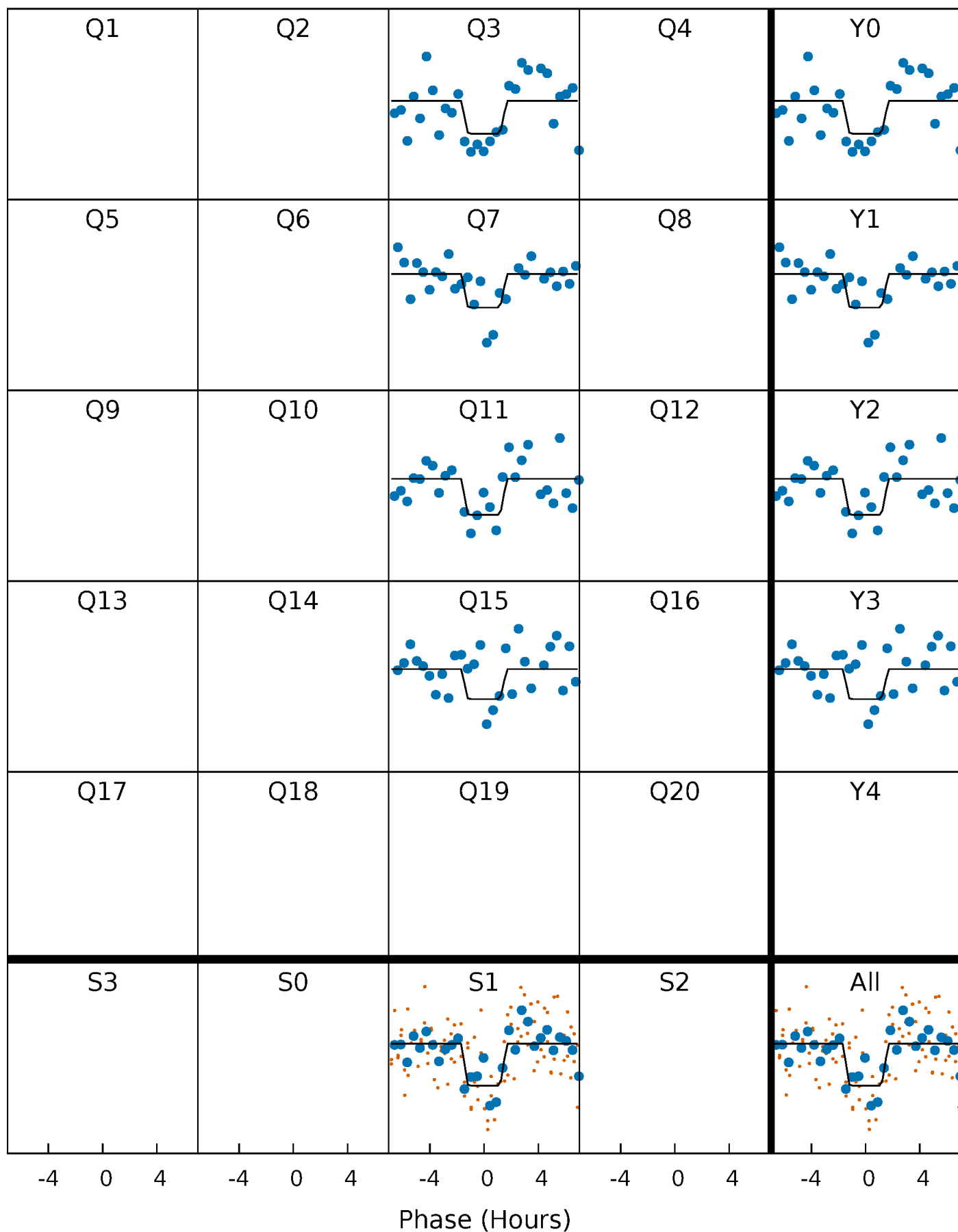
DV Quarter-Phased Transit Curves

TCE 009583738-01 $P=360.317676$ Days $T_0=314.733381$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

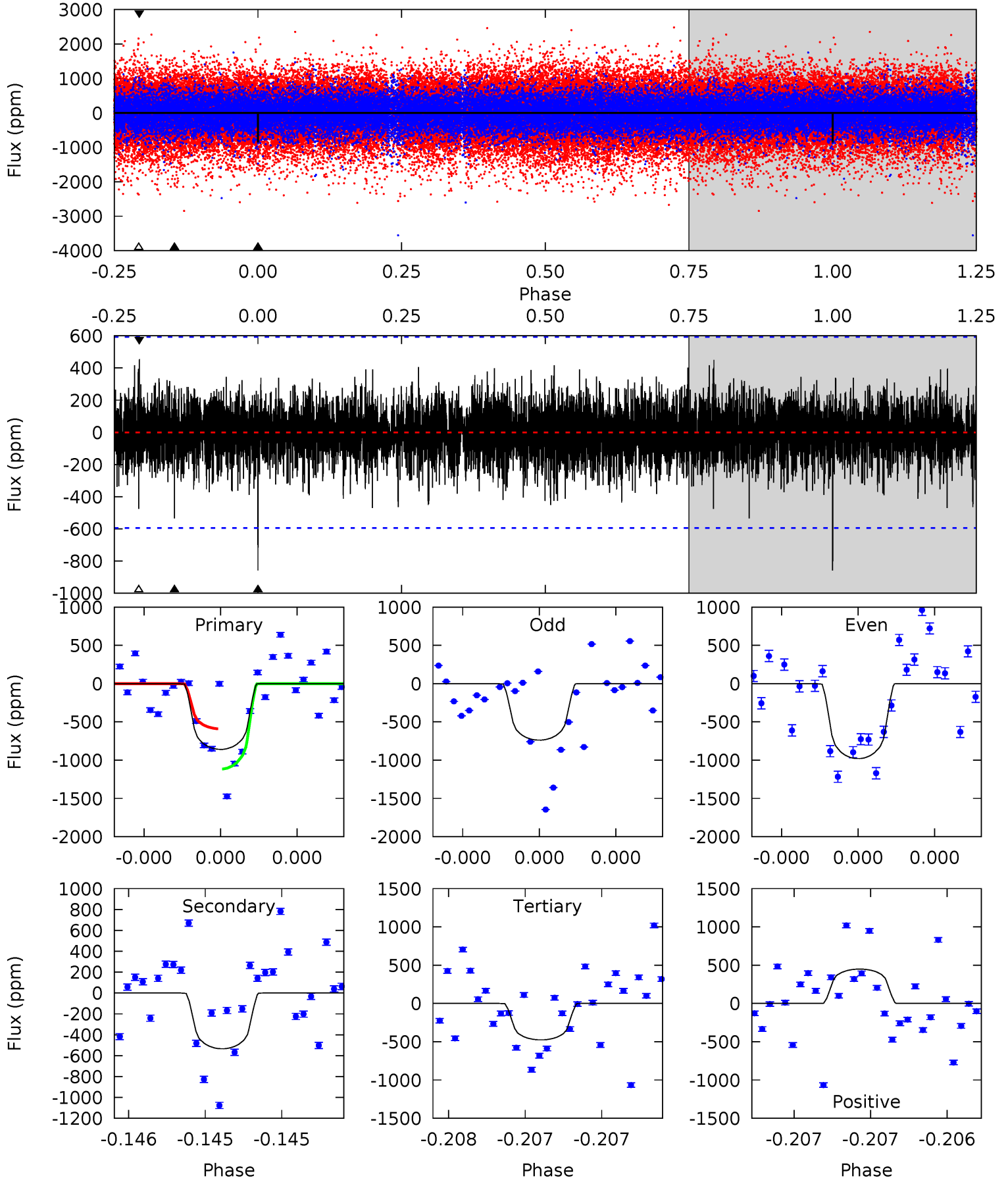
TCE 009583738-01 P=360.316579 Days $T_0=314.737955$ (BKJD)



DV Model-Shift Uniqueness Test

009583738-01, P = 360.317676 Days, E = 314.733381 Days

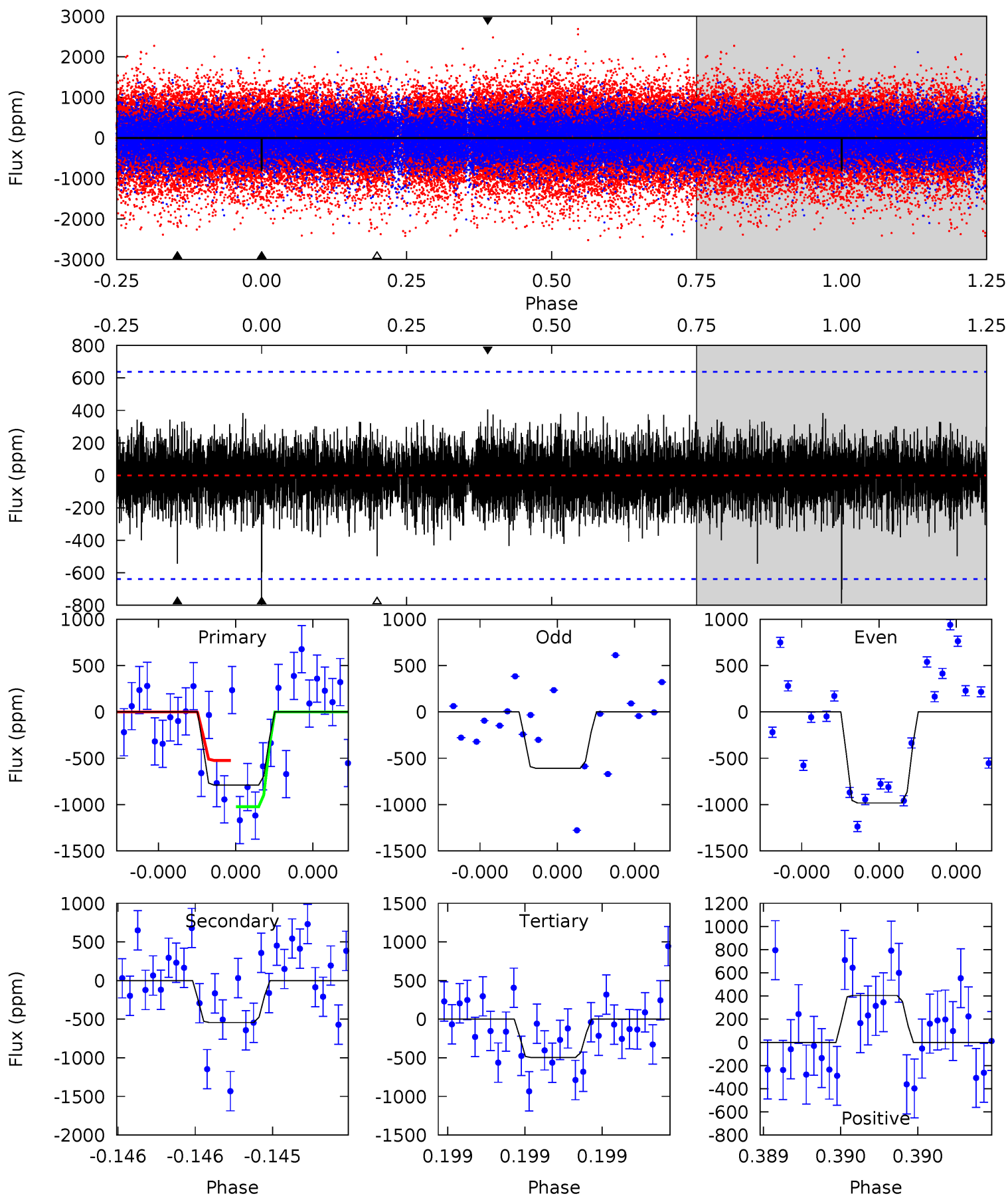
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.08	5.03	4.48	4.23	5.59	3.51	1.17	3.61	3.86	0.55	0.80	1.15	0.96	0.34	2.48



Alt Model-Shift Uniqueness Test

009583738-01, P = 360.316579 Days, E = 314.737955 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.95	4.78	4.37	3.56	5.61	3.54	1.02	2.58	3.39	0.41	1.22	1.65	0.98	0.34	2.19



Stellar Parameters For KIC 009583738

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5676^{+154}_{-188}	$4.529^{+0.033}_{-0.187}$	$0.210^{+0.200}_{-0.300}$	$0.918^{+0.232}_{-0.083}$	$1.038^{+0.089}_{-0.133}$	$1.892^{+0.351}_{-0.893}$
	+3%/-3%	+1%/-4%	+95%/-143%	+25%/-9%	+9%/-13%	+19%/-47%
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 009583738-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-534 ± 106	$5.70^{+4.82}_{-3.67}$	341^{+21}_{-15}	4035^{+2097}_{-741}	9024^{+59143}_{-6437}
Alt.	-543 ± 114	$5.15^{+5.21}_{-3.35}$	343^{+20}_{-16}	4145^{+2448}_{-860}	10709^{+79916}_{-8154}

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

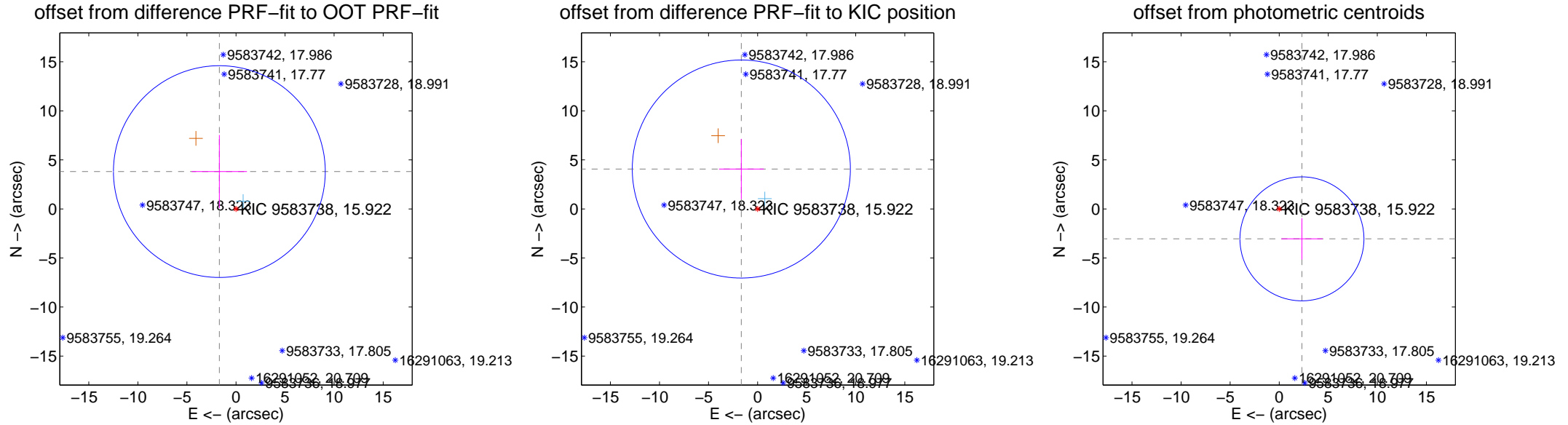
DV Centroid Data

Supplemental centroid analysis for 009583738-01. Kepler magnitude: 15.92. Transit SNR 7.65

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

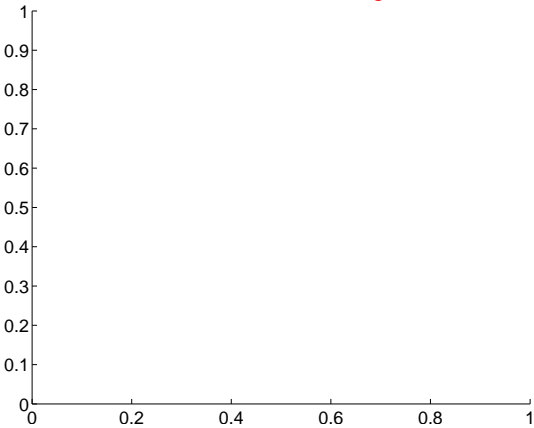
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.168 ± 3.597	1.16	1.695 ± 2.809	3.808 ± 3.734
PRF-fit source offset from KIC position	4.394 ± 3.704	1.19	1.658 ± 2.279	4.069 ± 3.072
photometric centroid source offset	3.83 ± 2.11	1.82	-2.32 ± 2.10	-3.05 ± 2.11



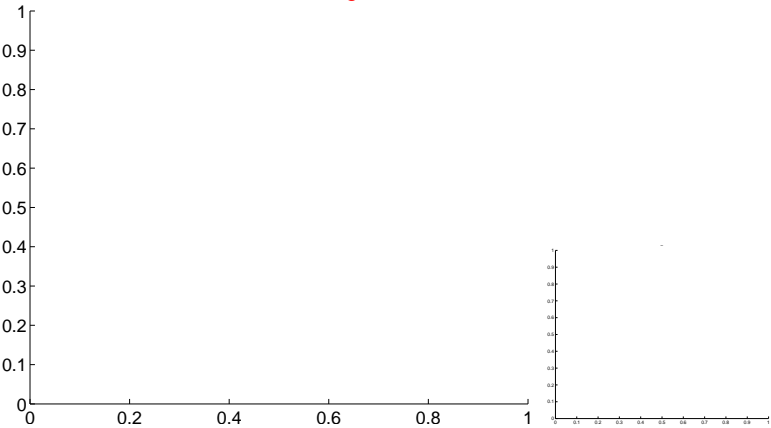
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . 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 ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

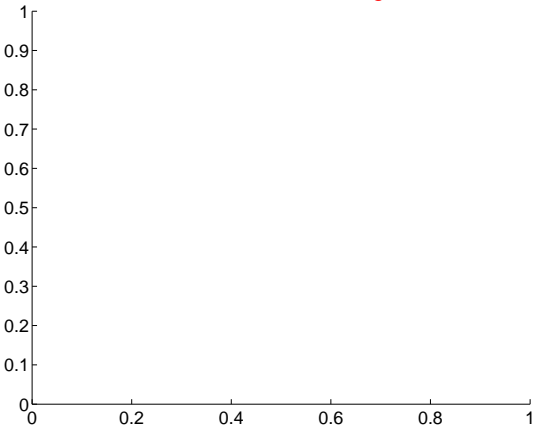
Q1 no difference image



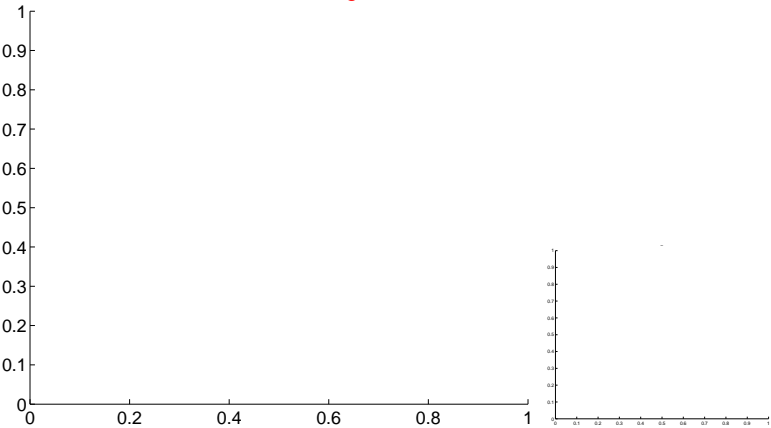
Q1 no OOT image



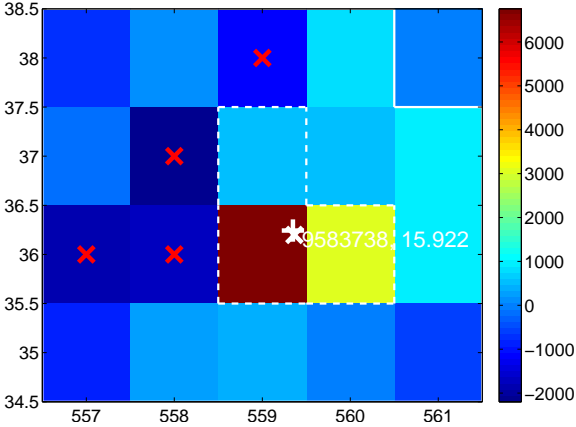
Q2 no difference image



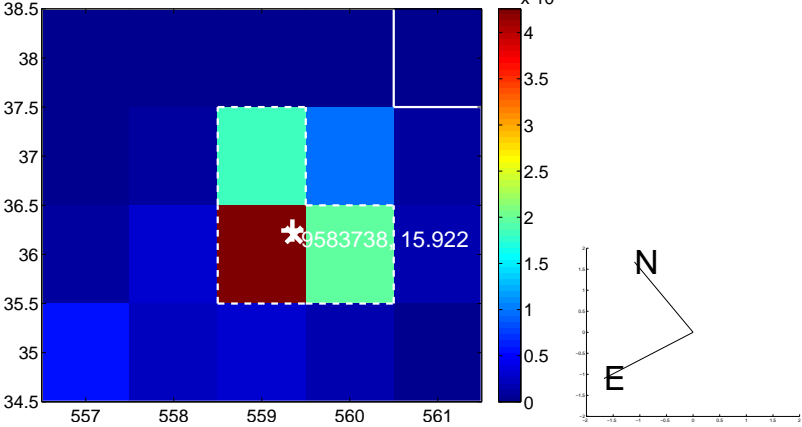
Q2 no OOT image



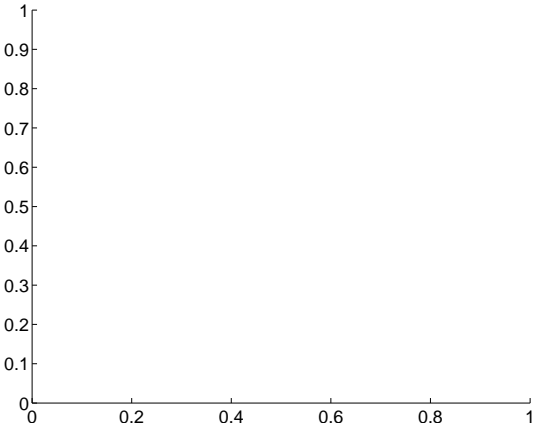
Q3 difference image. Poor Quality



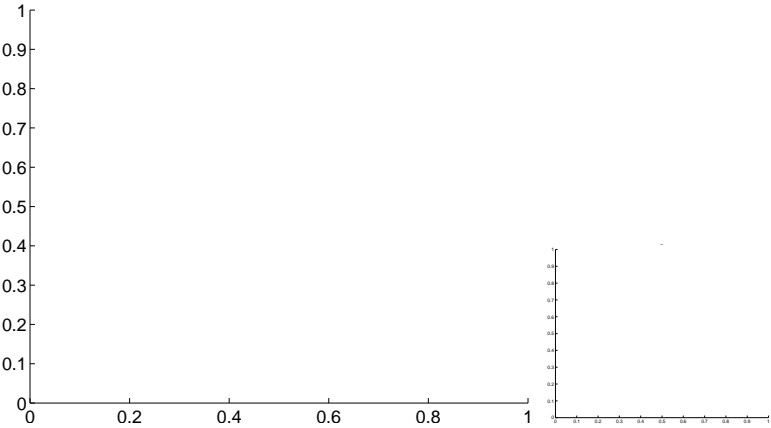
Q3 OOT image



Q4 no difference image

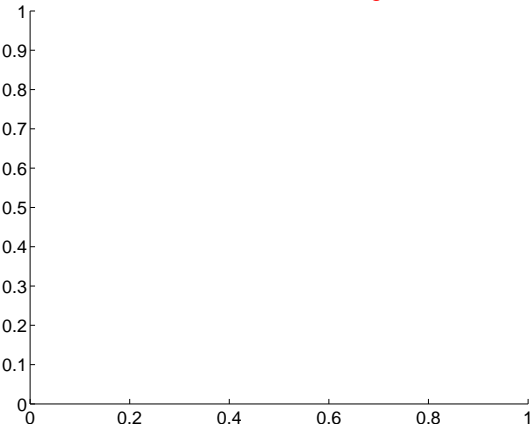


Q4 no OOT image

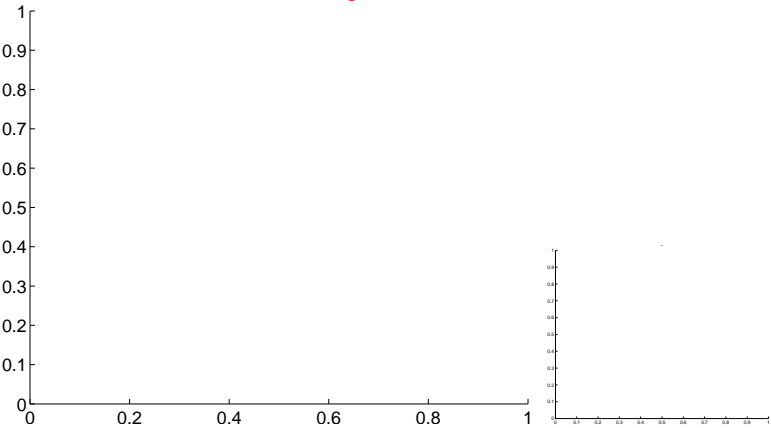


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

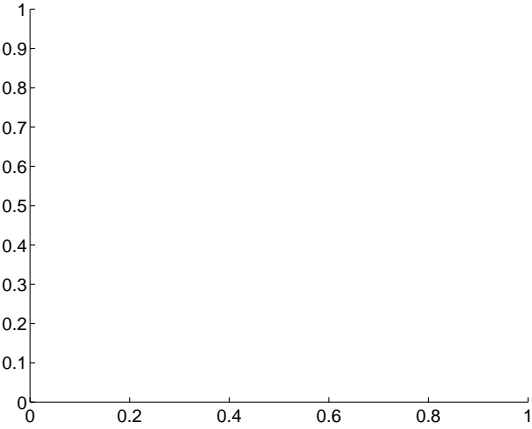
Q5 no difference image



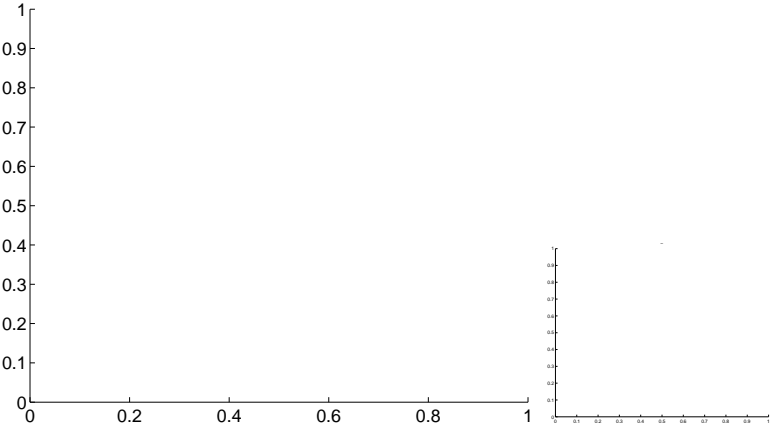
Q5 no OOT image



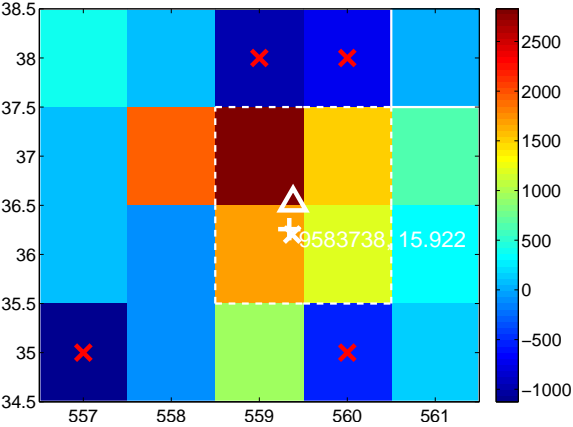
Q6 no difference image



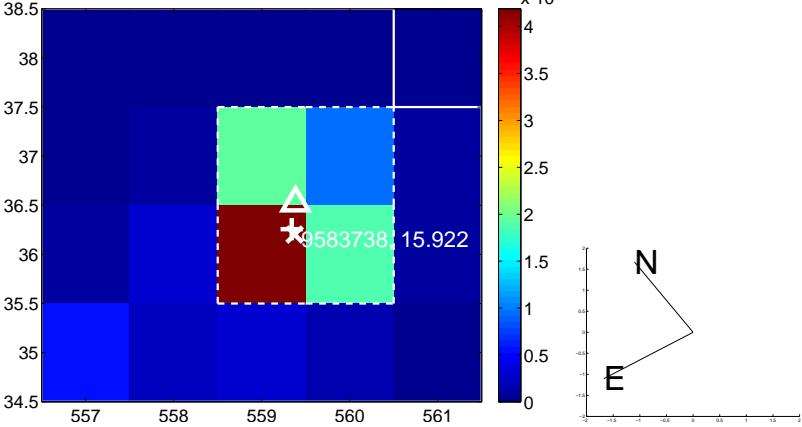
Q6 no OOT image



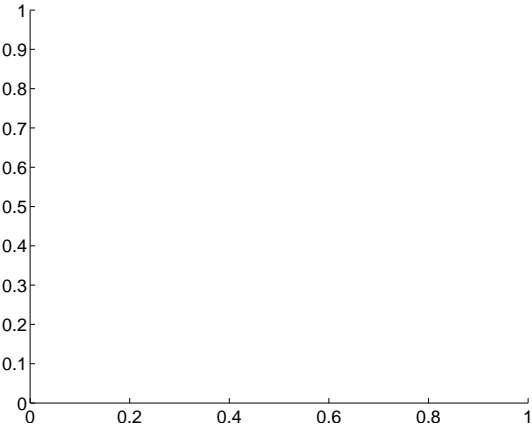
Q7 difference image



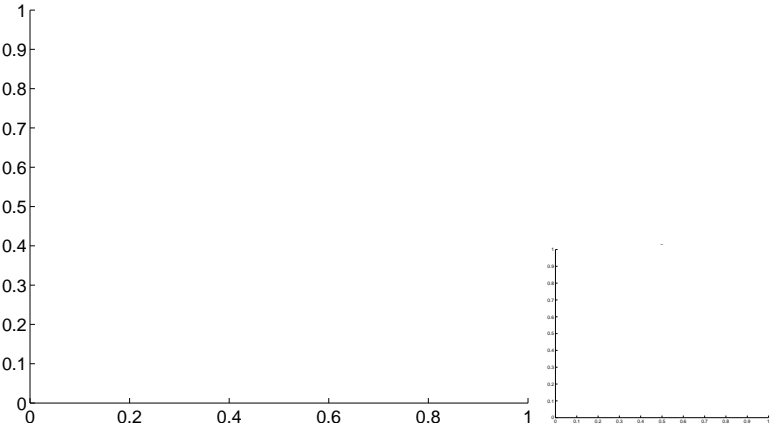
Q7 OOT image



Q8 no difference image

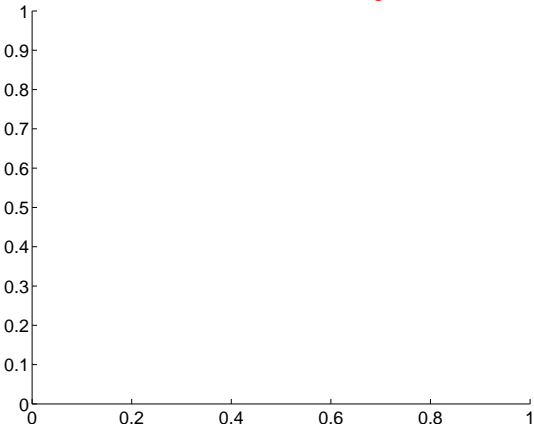


Q8 no OOT image

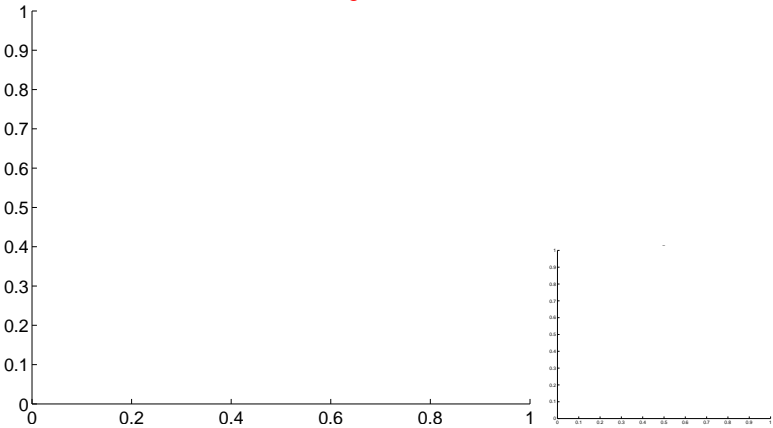


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

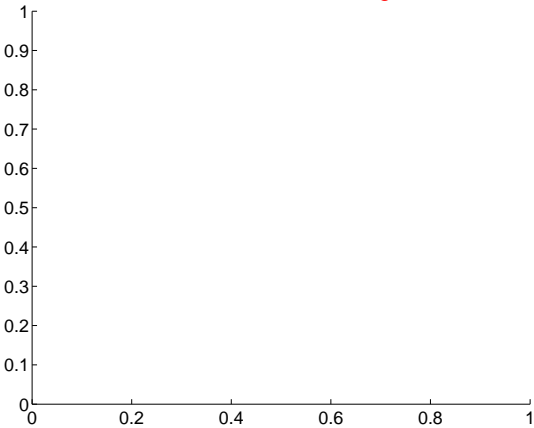
Q9 no difference image



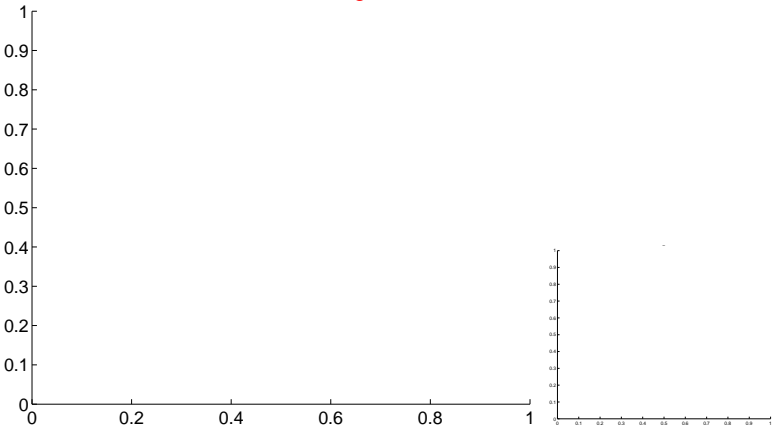
Q9 no OOT image



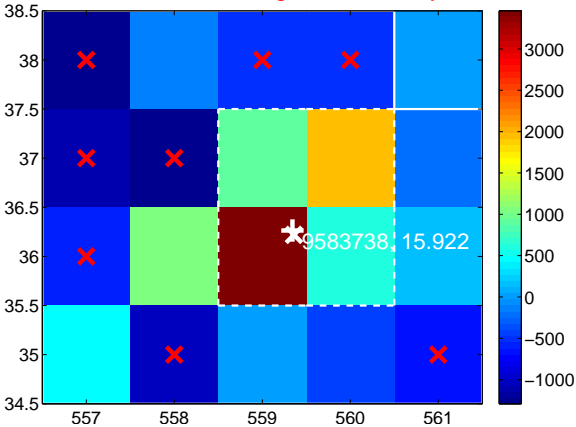
Q10 no difference image



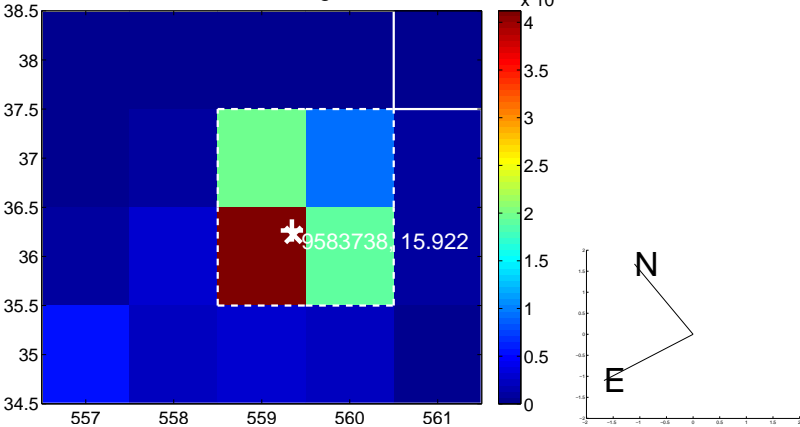
Q10 no OOT image



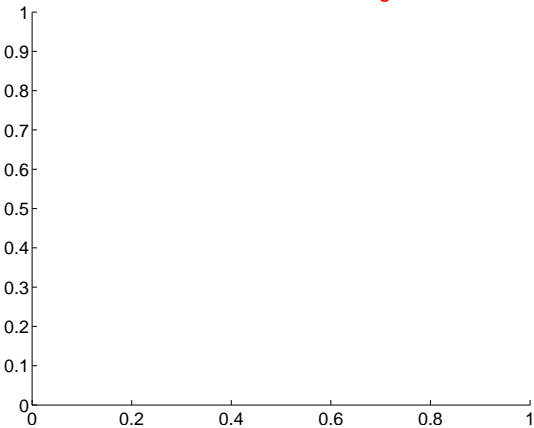
Q11 difference image. Poor Quality



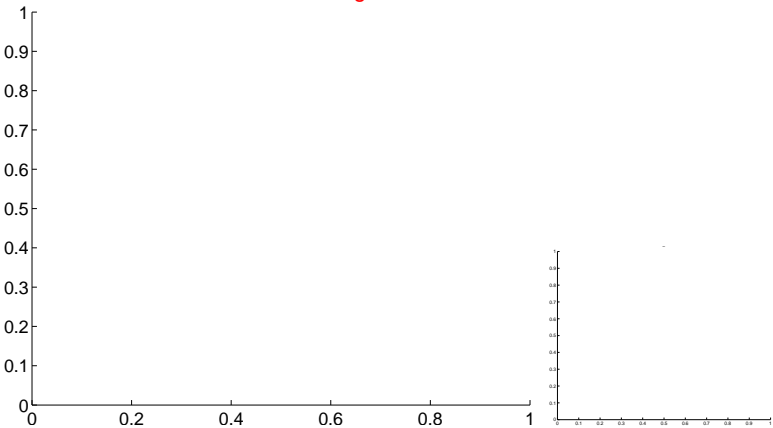
Q11 OOT image



Q12 no difference image

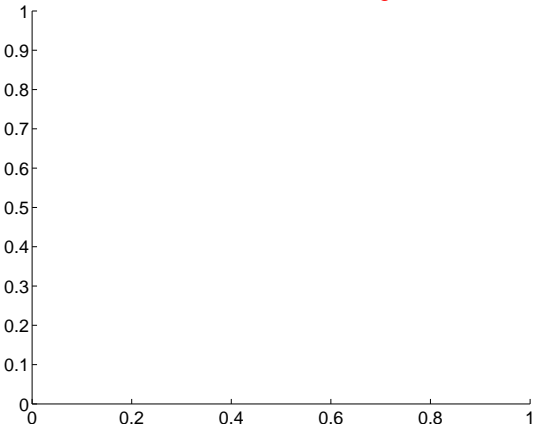


Q12 no OOT image

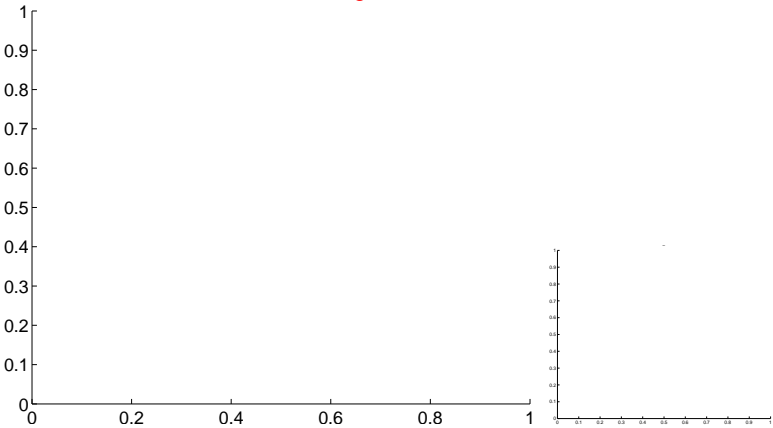


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

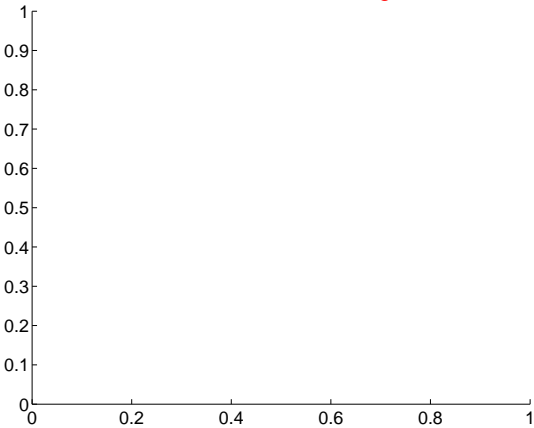
Q13 no difference image



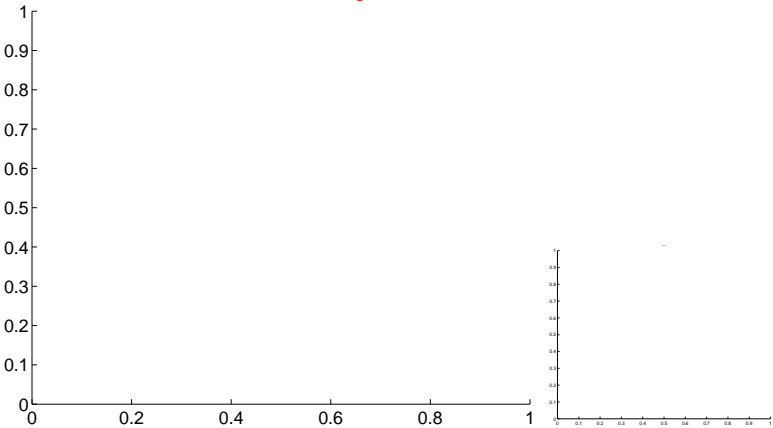
Q13 no OOT image



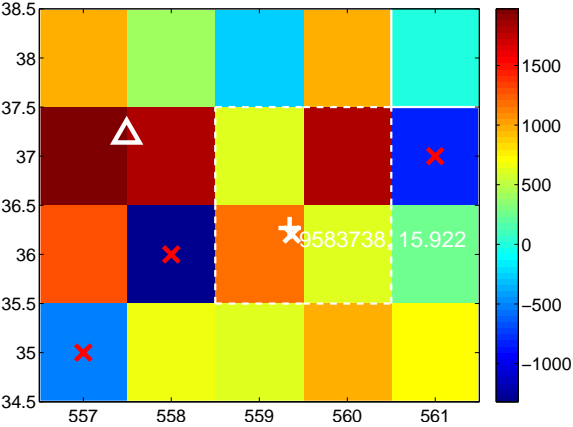
Q14 no difference image



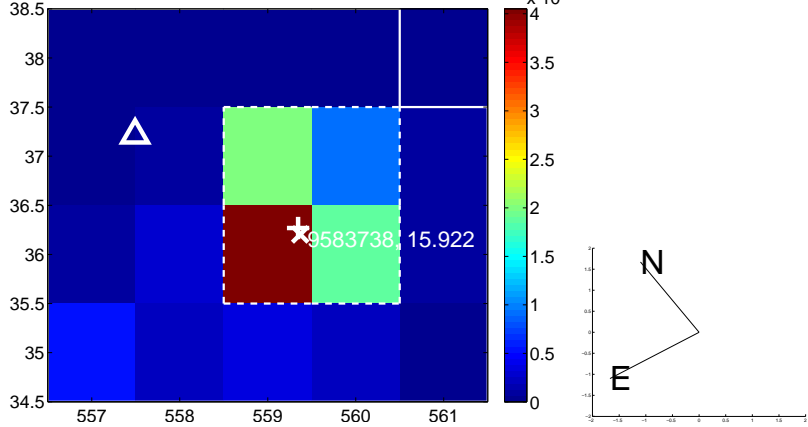
Q14 no OOT image



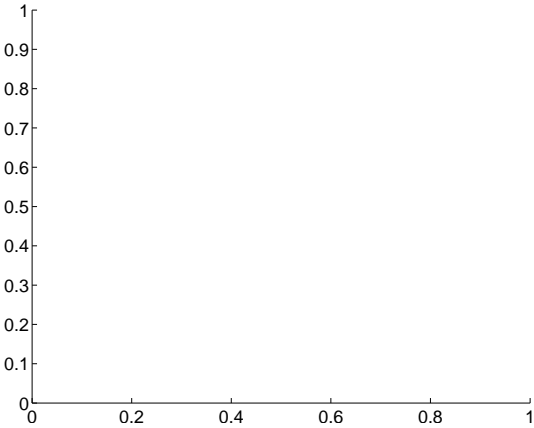
Q15 difference image. Poor Quality



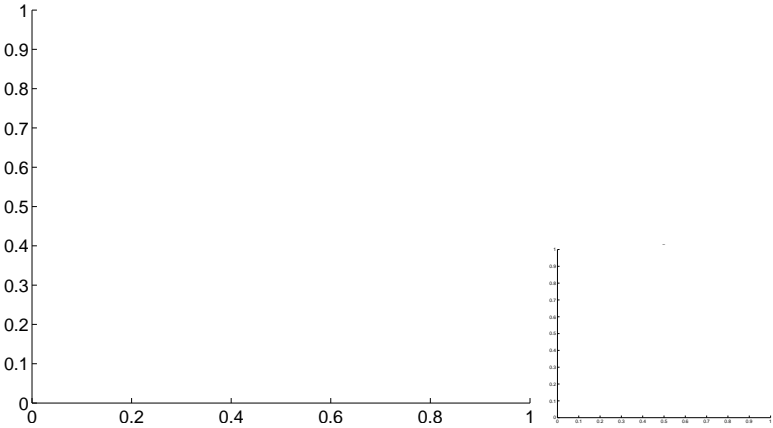
Q15 OOT image



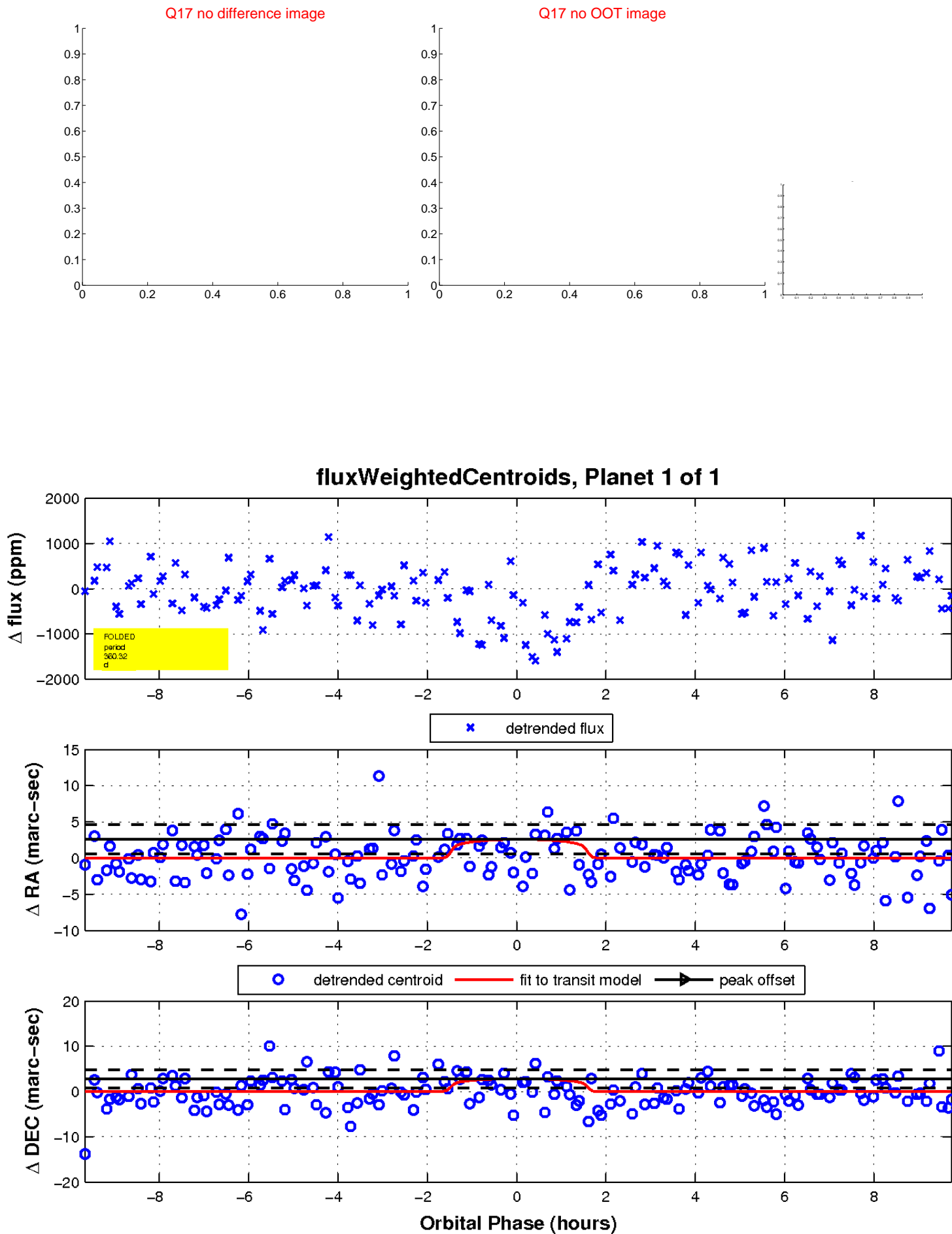
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

