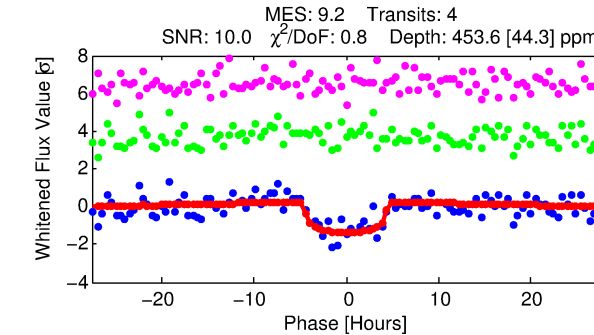
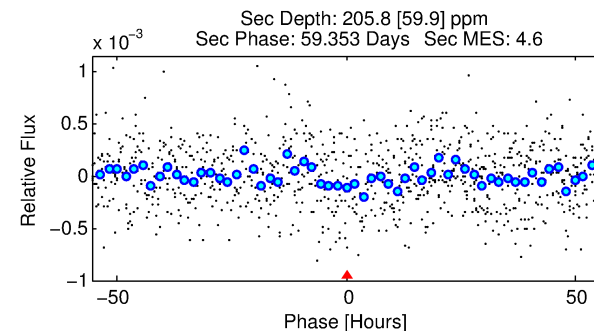
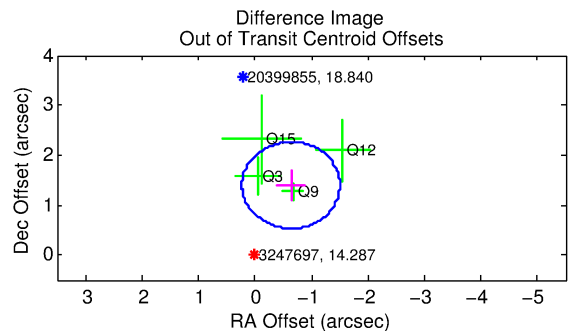
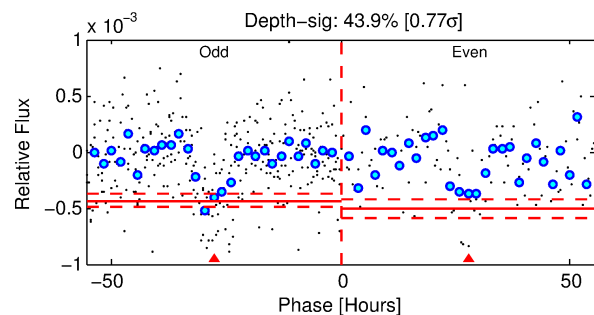
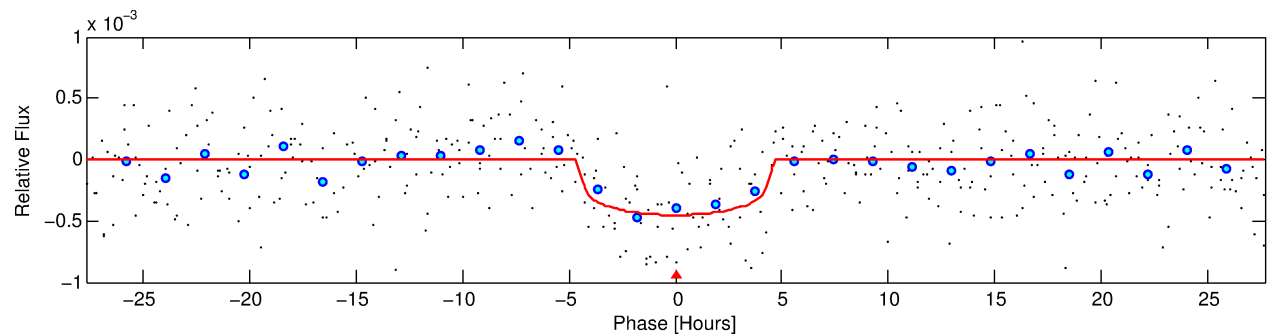
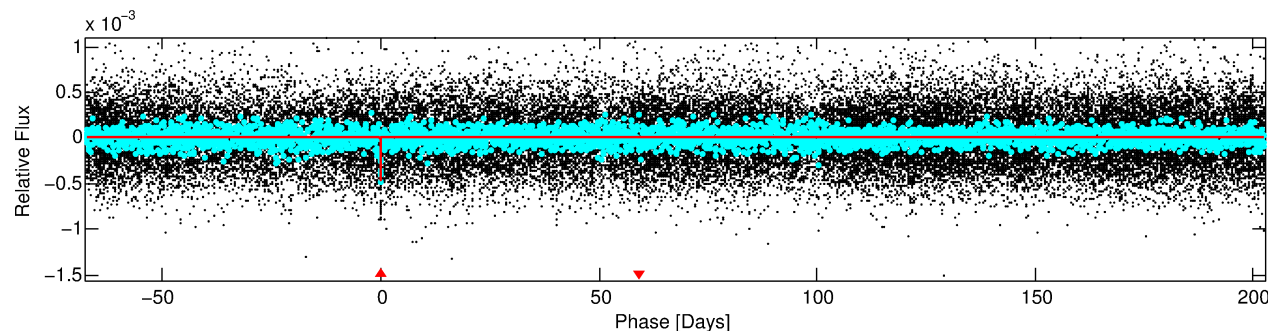
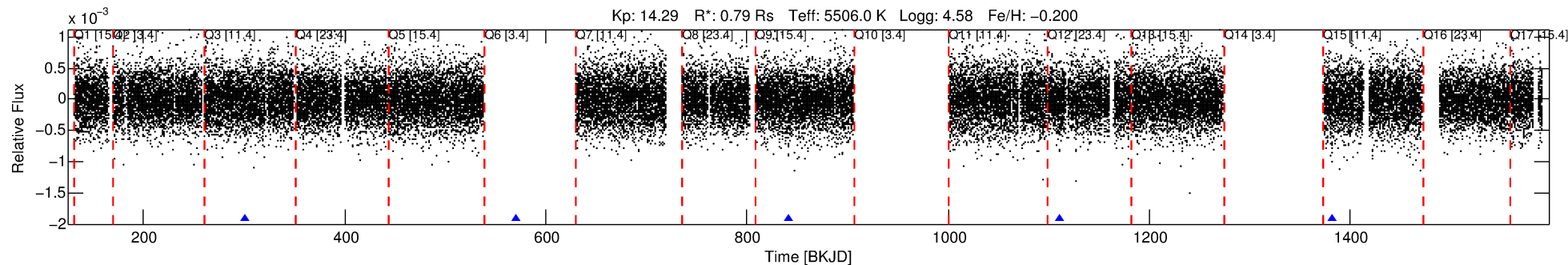


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 3247697 Candidate: 1 of 1 Period: 270.237 d

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



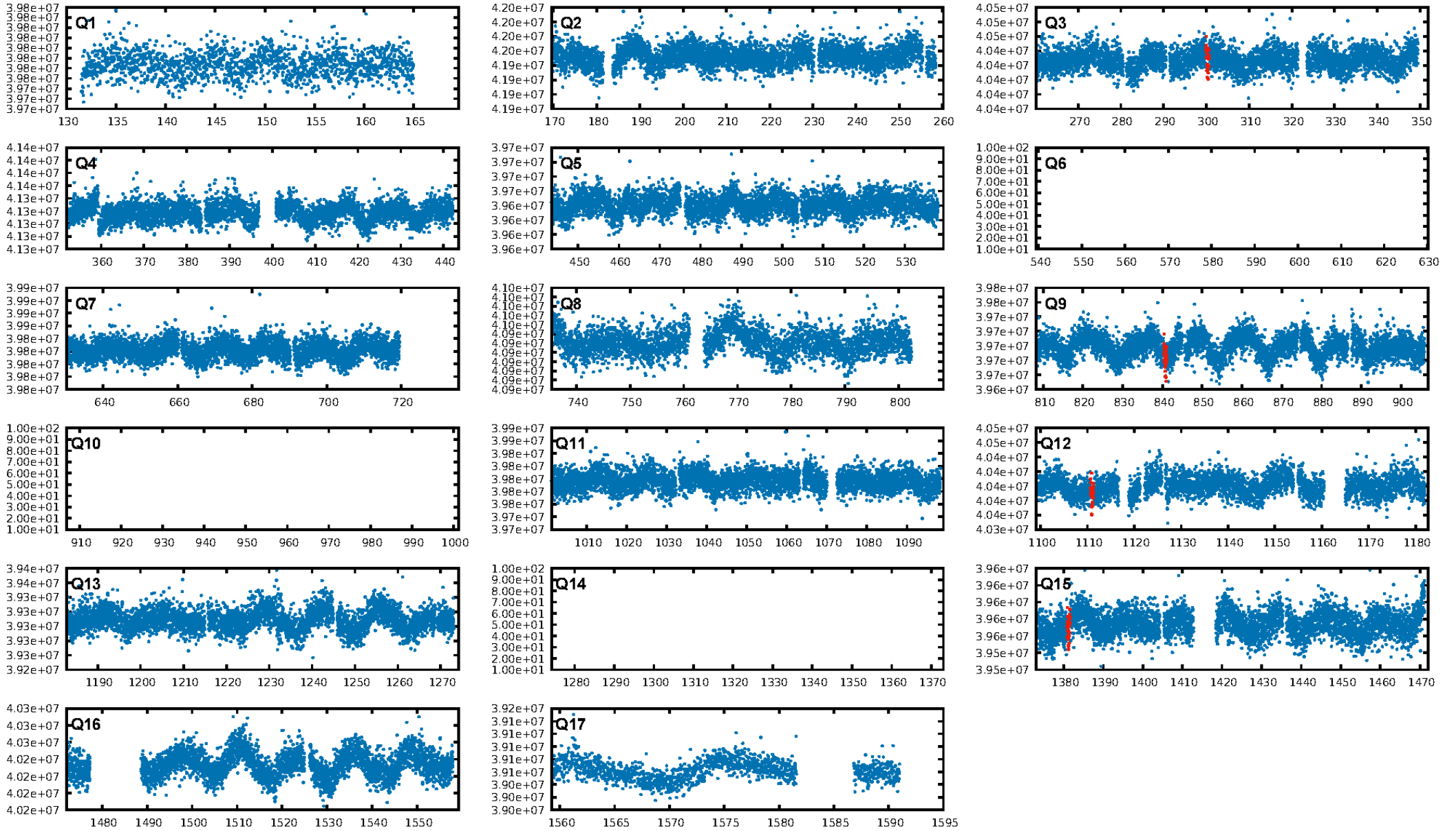
DV Fit Results:

Period = 270.23675 [0.00578] d
Epoch = 300.2806 [0.0153] BKJD
Rp/R* = 0.0208 [0.0132]
a/R* = 165.93 [437.85]
b = 0.70 [1.93]
Seff = 0.84 [0.23]
Teq = 244 [17] K
Rp = 1.79 [1.19] Re
a = 0.7808 [0.1350] AU
Ag = 21505.79 [28429.84] [0.76 σ]
Teff = 4569 [1488] K [2.91 σ]

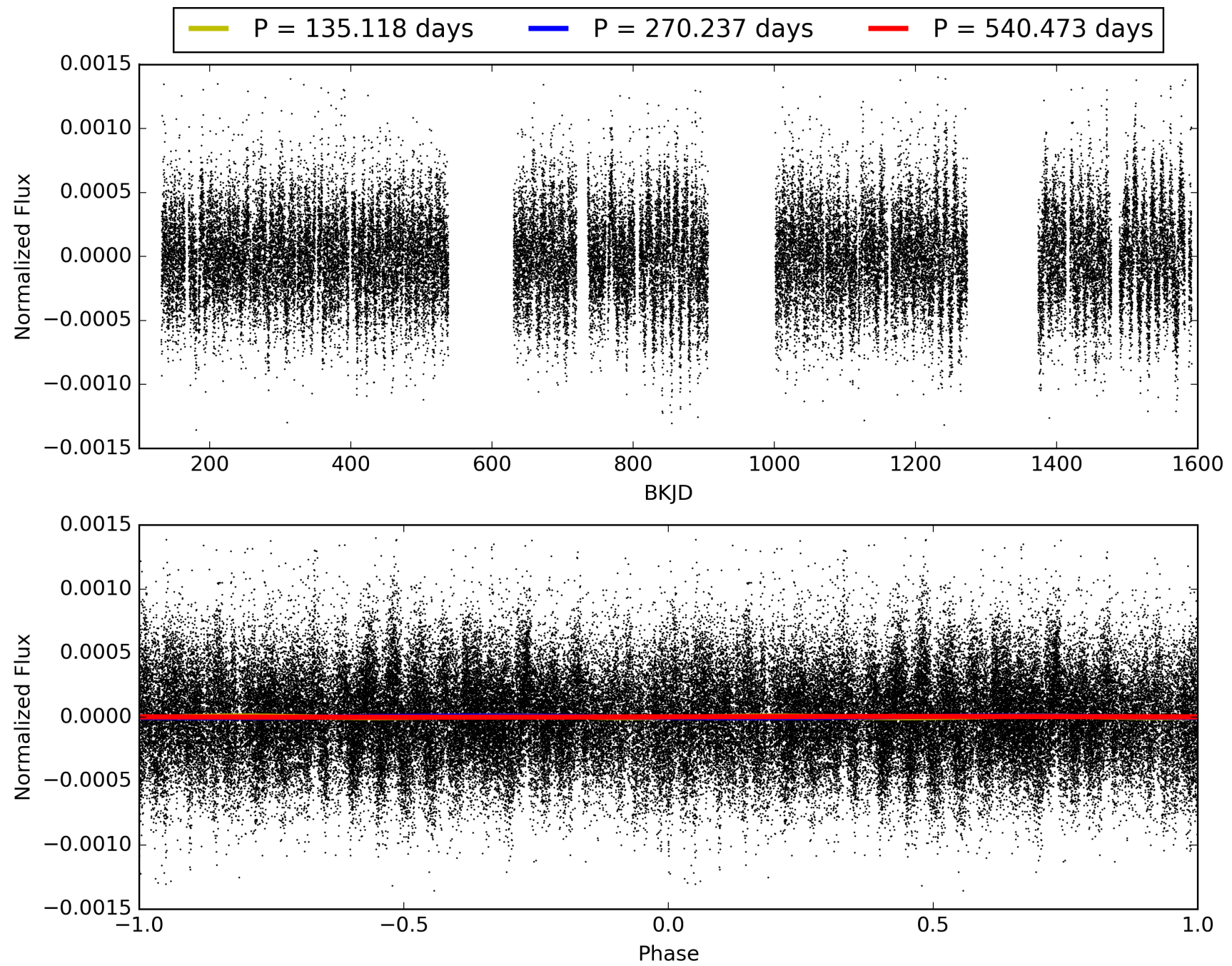
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 73.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.03e-13
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 2.185
Centroid-sig: 9.1%
Centroid-so: 1.814 arcsec [1.26 σ]
OotOffset-rm: 1.537 arcsec [5.33 σ]
KicOffset-rm: 1.664 arcsec [5.77 σ]
OotOffset-st: 0/2/1/1 [4]
KicOffset-st: 0/2/1/1 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

TCE 003247697-01, PDC Light Curves

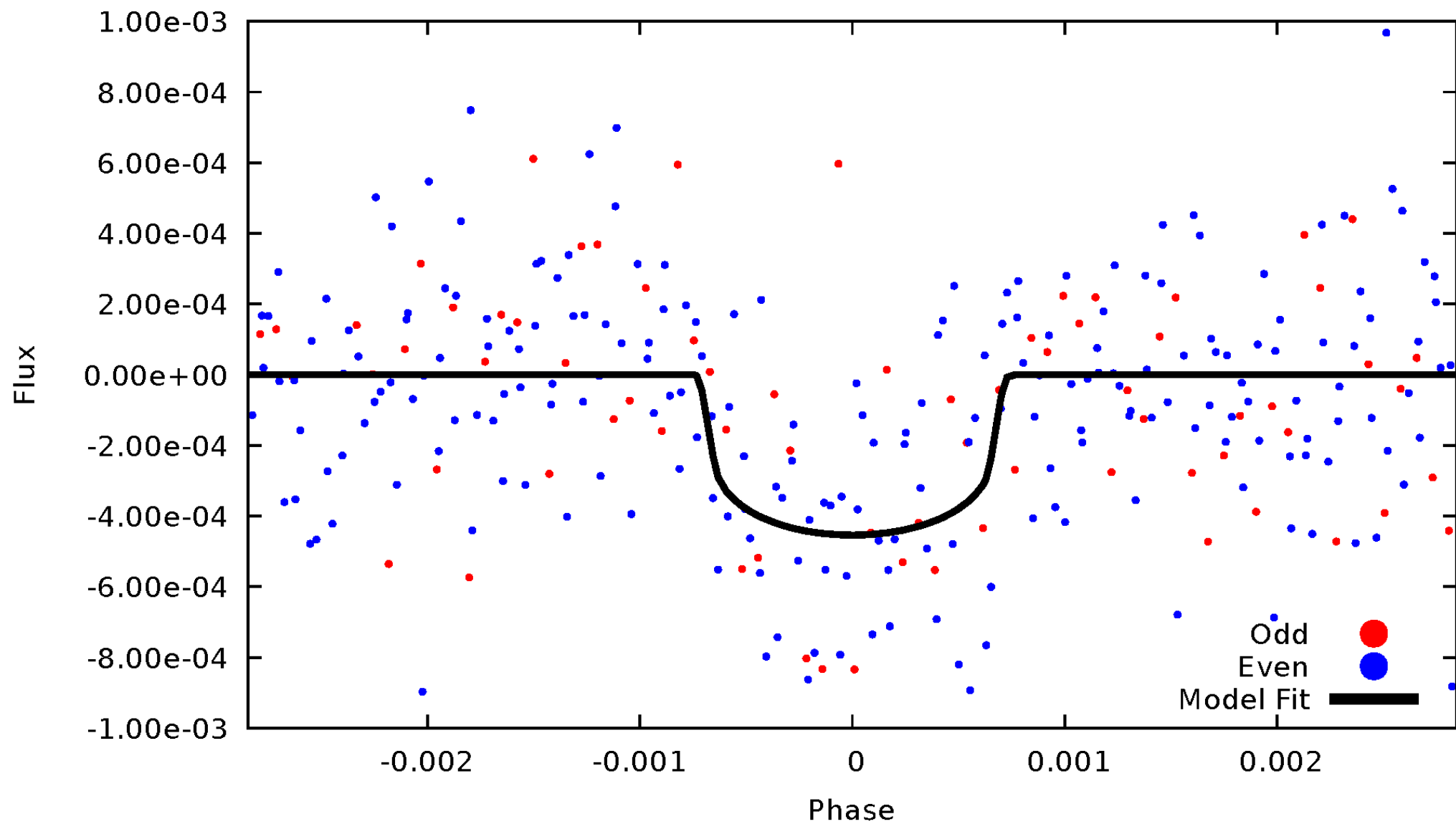


TCE 003247697-01



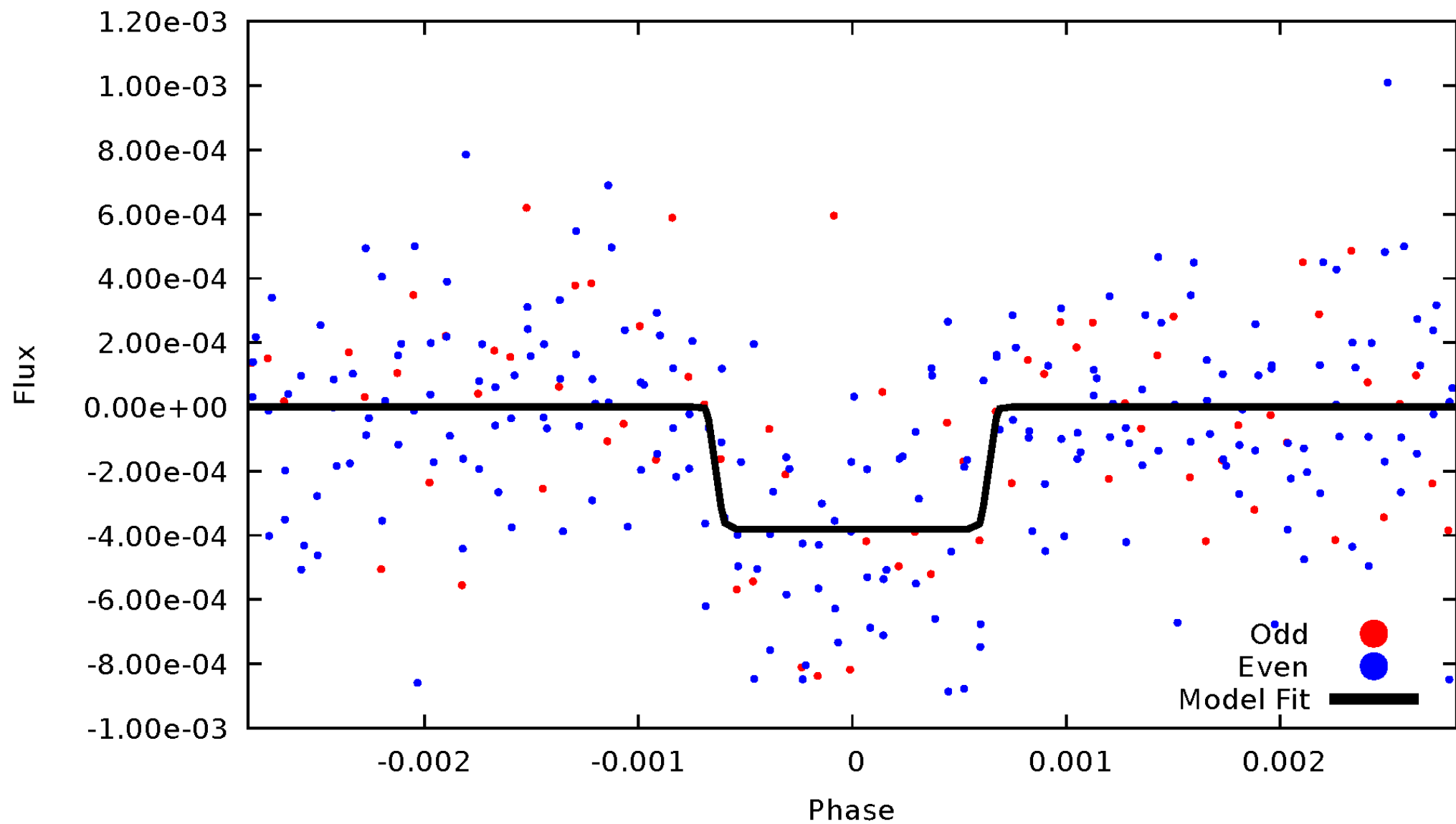
DV Odd/Even

TCE 003247697-01



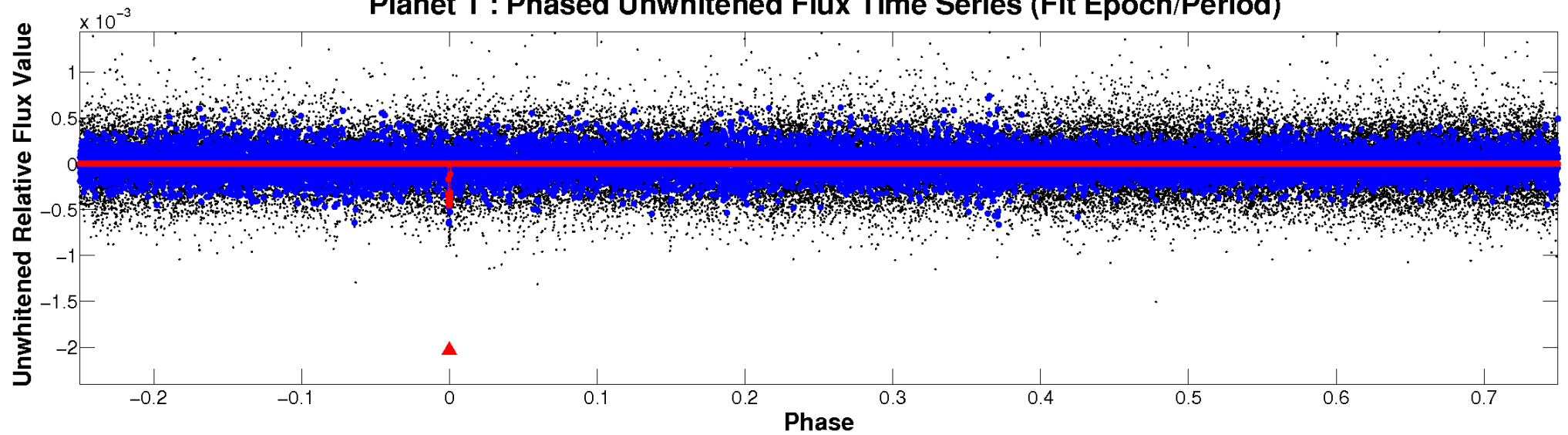
ALT Odd/Even

TCE 003247697-01

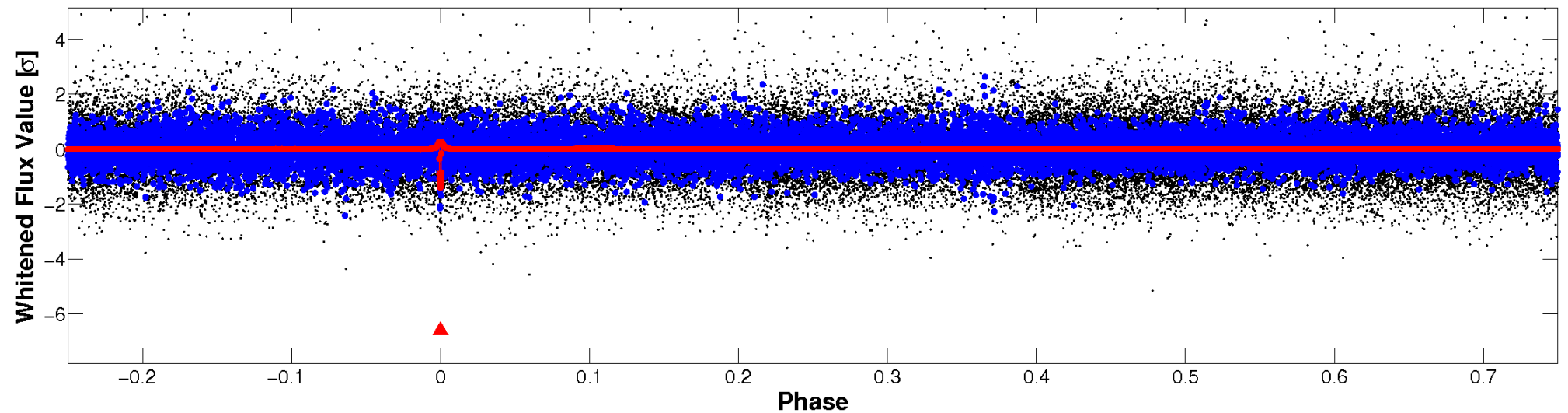


Non-Whitened Vs. Whitened Light Curve

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

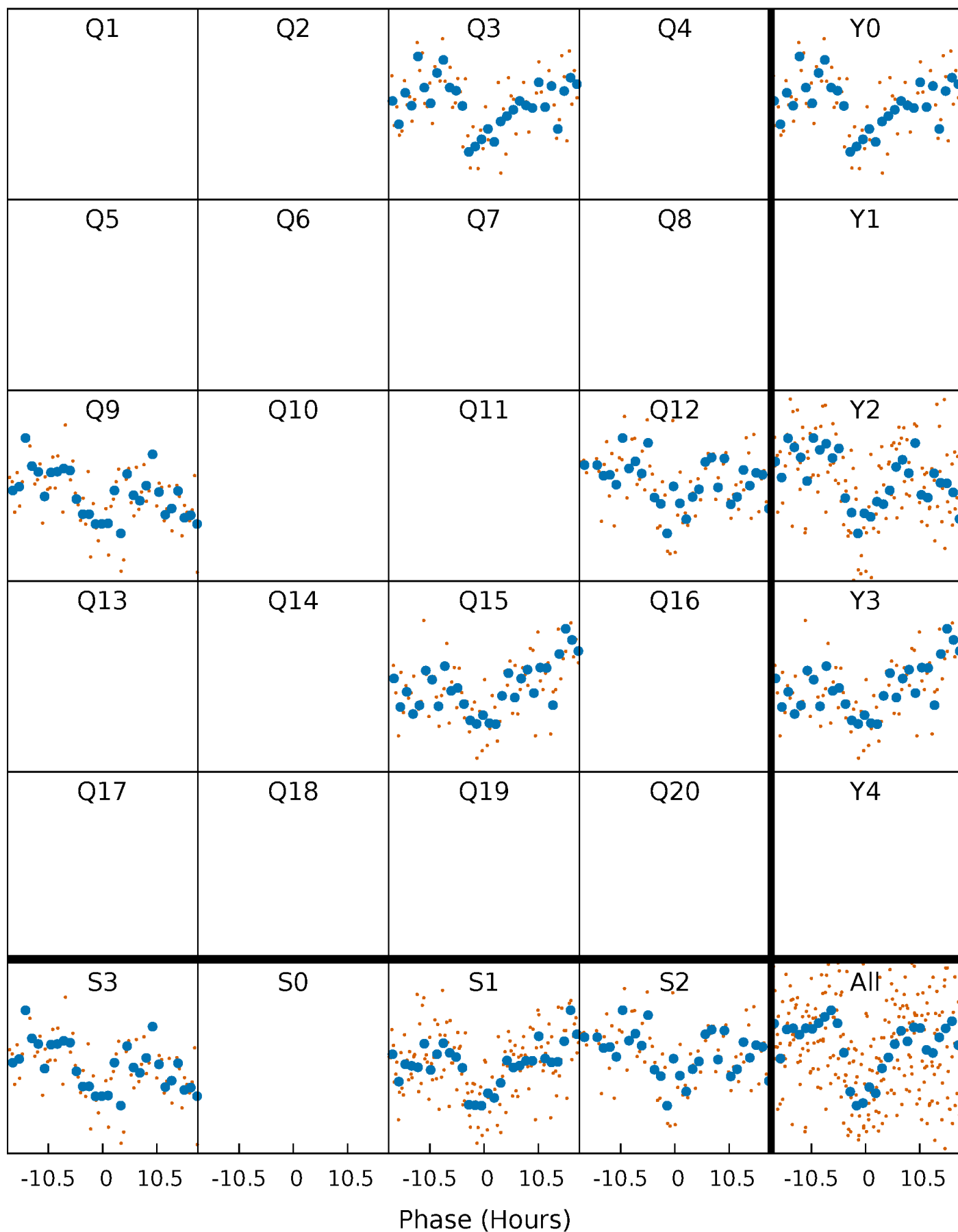


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 003247697-01 P=270.236748 Days $T_0=300.280600$ (BKJD)



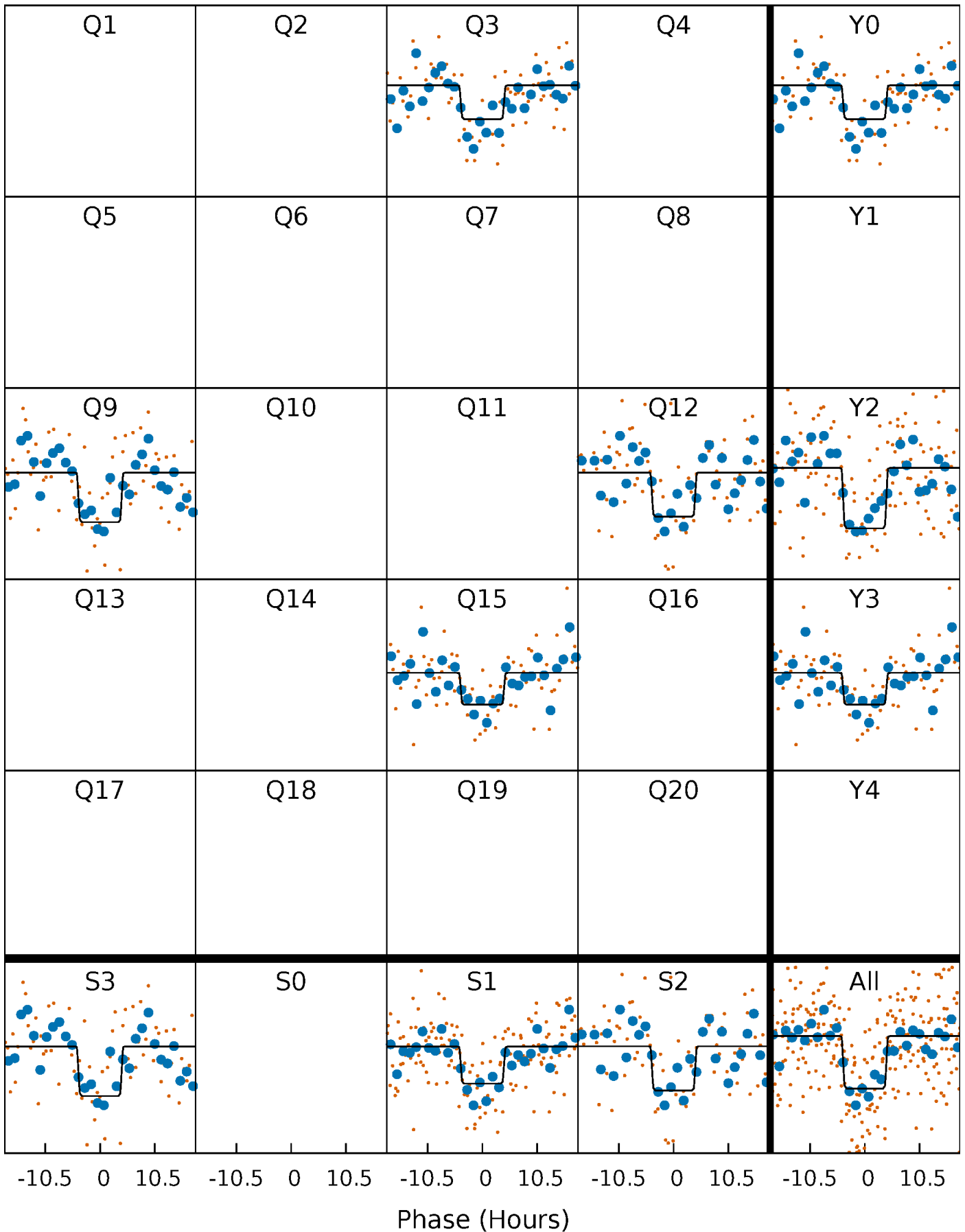
DV Quarter-Phased Transit Curves

TCE 003247697-01 P=270.236748 Days $T_0=300.280600$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

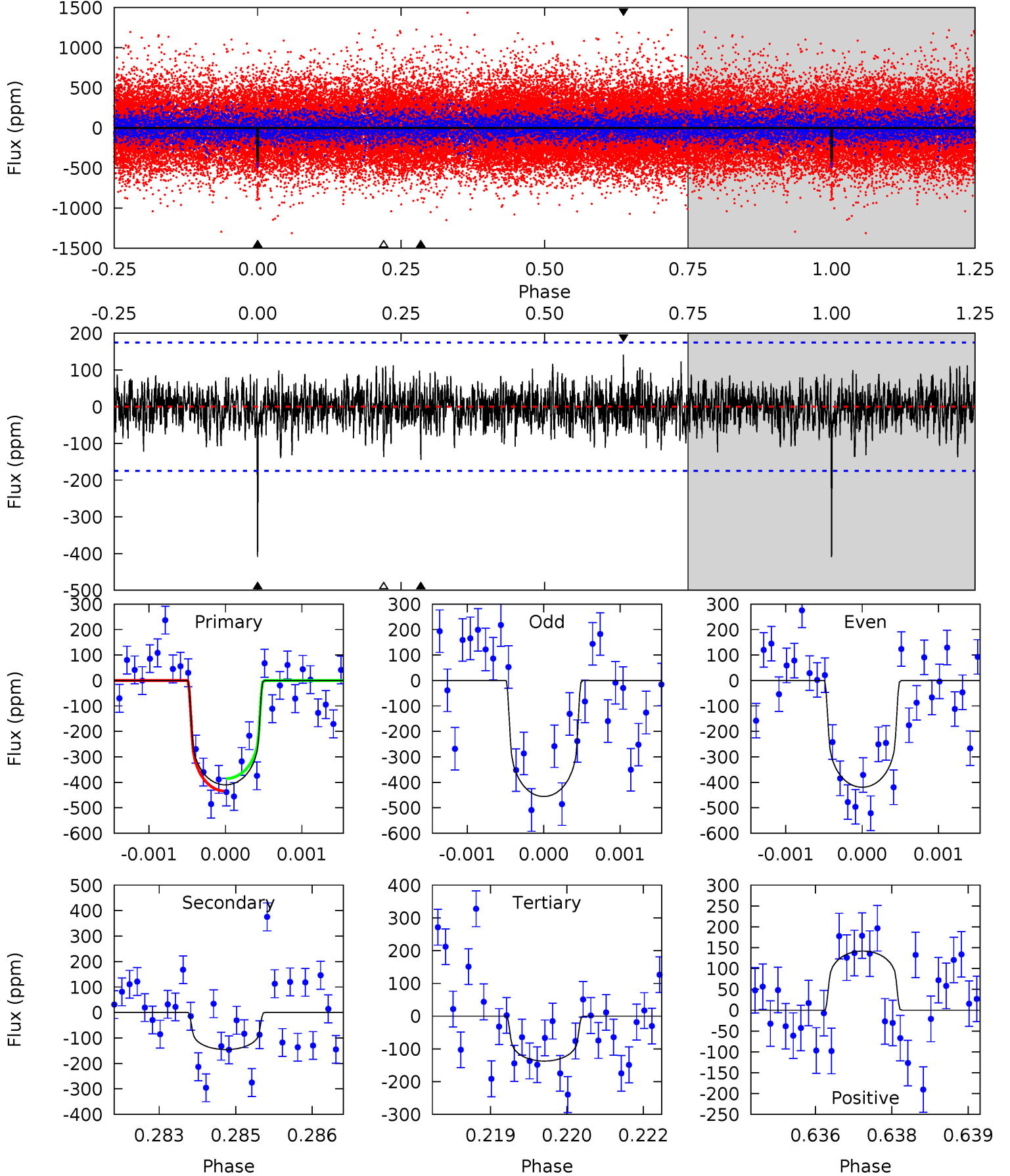
TCE 003247697-01 P=270.233831 Days $T_0=300.295009$ (BKJD)



DV Model-Shift Uniqueness Test

003247697-01, $P = 270.236748$ Days, $E = 30.043852$ Days

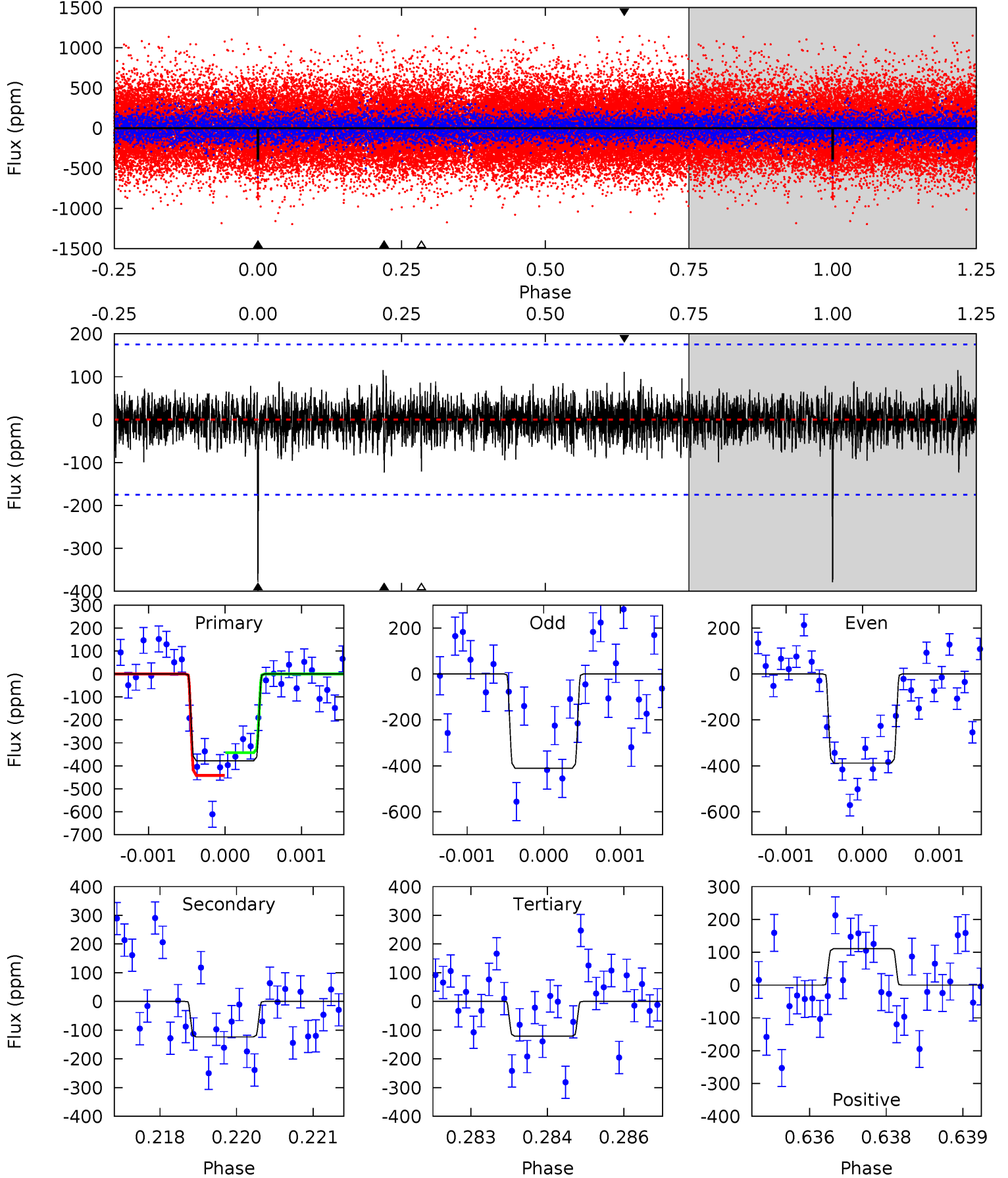
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	4.47	4.22	4.36	5.38	3.18	1.17	8.39	8.24	0.25	0.11	0.47	0.98	0.26	0.75



Alt Model-Shift Uniqueness Test

003247697-01, $P = 270.233831$ Days, $E = 30.061178$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.6	3.80	3.71	3.41	5.39	3.19	0.90	7.92	8.23	0.08	0.39	0.28	1.06	0.23	1.51



Stellar Parameters For KIC 003247697

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5506^{+149}_{-149}	$4.584^{+0.034}_{-0.136}$	$-0.200^{+0.300}_{-0.300}$	$0.788^{+0.163}_{-0.065}$	$0.876^{+0.083}_{-0.100}$	$2.518^{+0.447}_{-0.980}$
	+3%/-3%	+1%/-3%	+150%/-150%	+21%/-8%	+9%/-11%	+18%/-39%
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 003247697-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-145 ± 33	$2.01^{+1.23}_{-1.09}$	348^{+17}_{-14}	4235^{+1625}_{-639}	11640^{+40964}_{-7057}
Alt.	-124 ± 33	$1.77^{+1.20}_{-0.94}$	347^{+19}_{-13}	4322^{+1585}_{-755}	12819^{+45614}_{-8630}

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

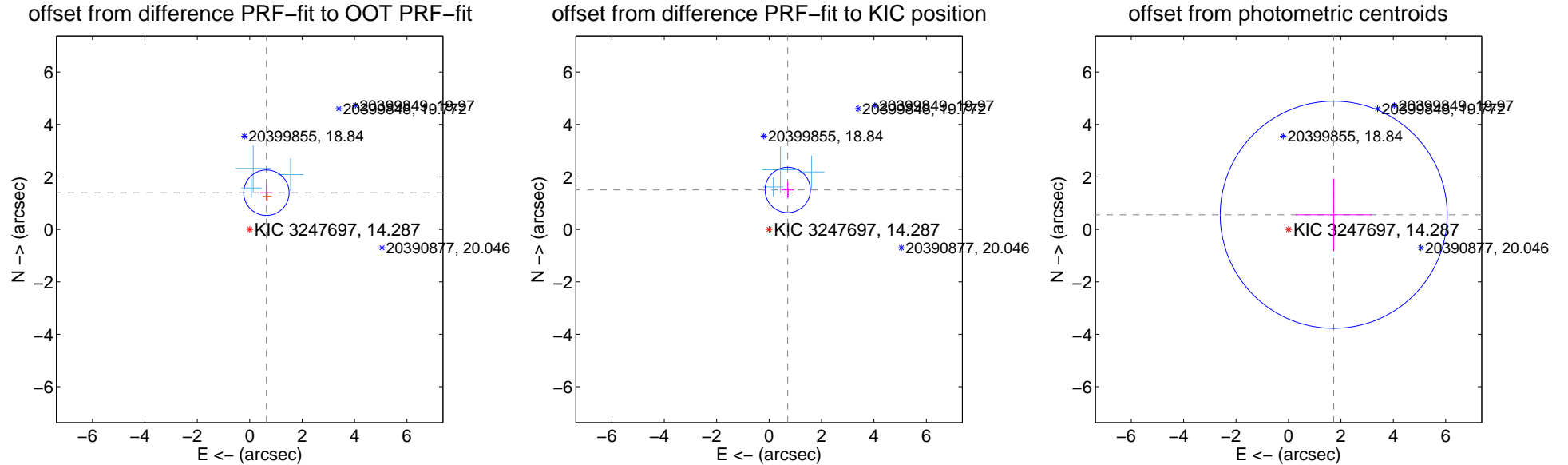
DV Centroid Data

Supplemental centroid analysis for 003247697-01. Kepler magnitude: 14.29. Transit SNR 9.96

There are 3 quarters with good PRF difference image offsets

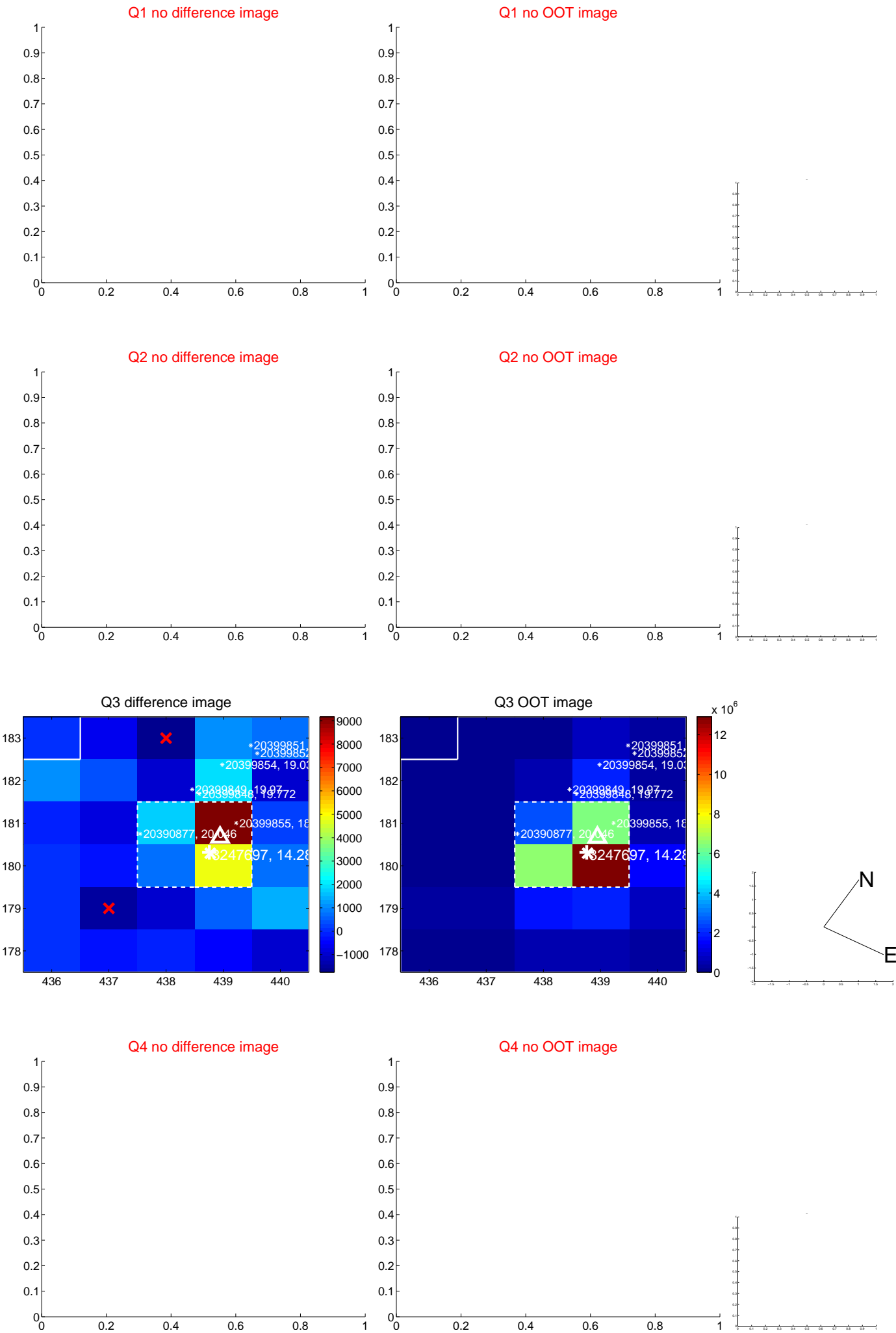
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.537 ± 0.289	5.33	-0.637 ± 0.246	1.399 ± 0.297
PRF-fit source offset from KIC position	1.664 ± 0.288	5.77	-0.711 ± 0.246	1.504 ± 0.297
photometric centroid source offset	1.81 ± 1.44	1.26	-1.73 ± 1.45	0.56 ± 1.38

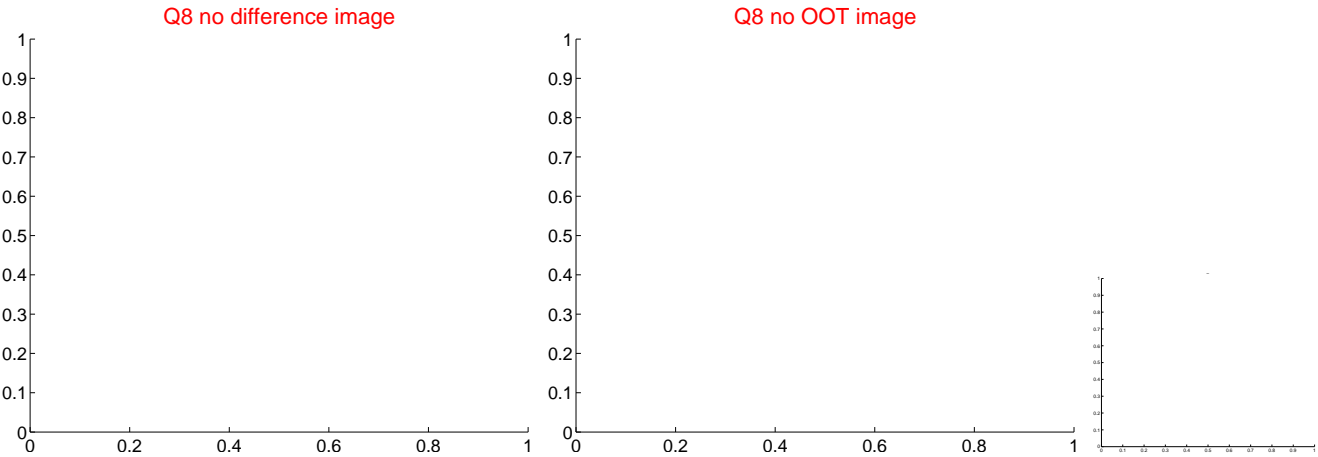
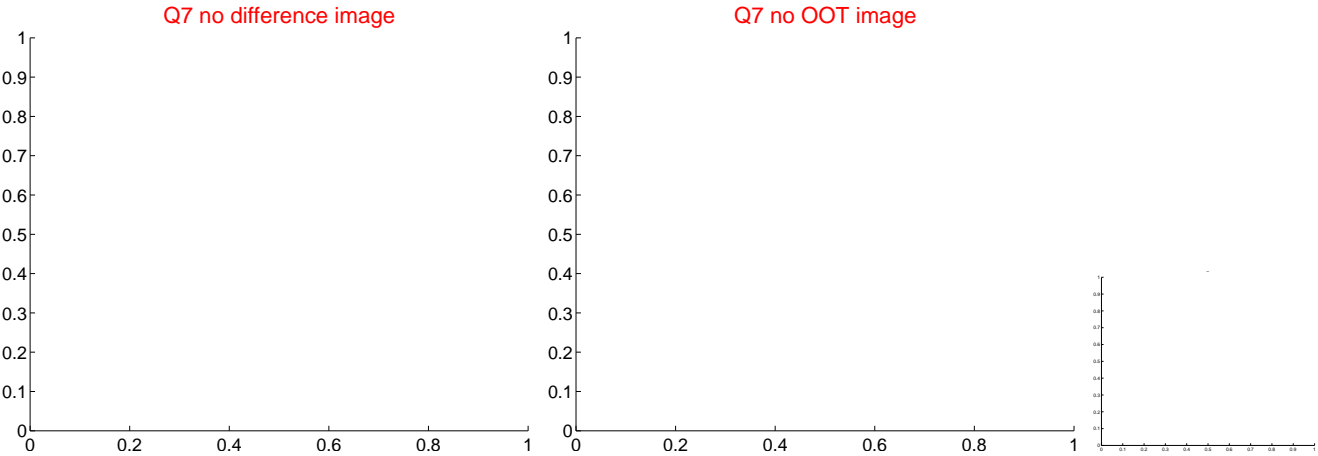
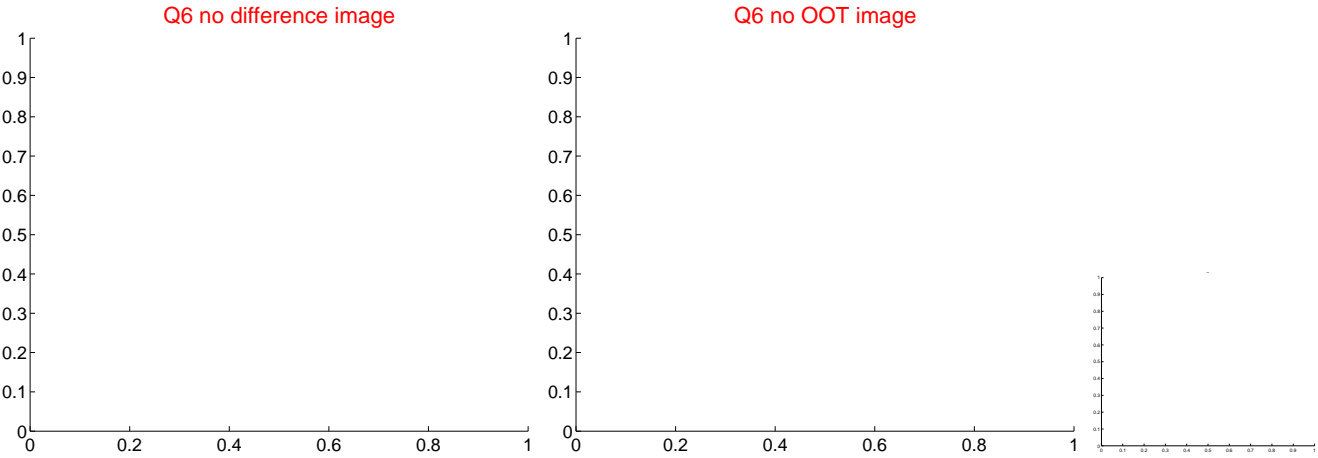
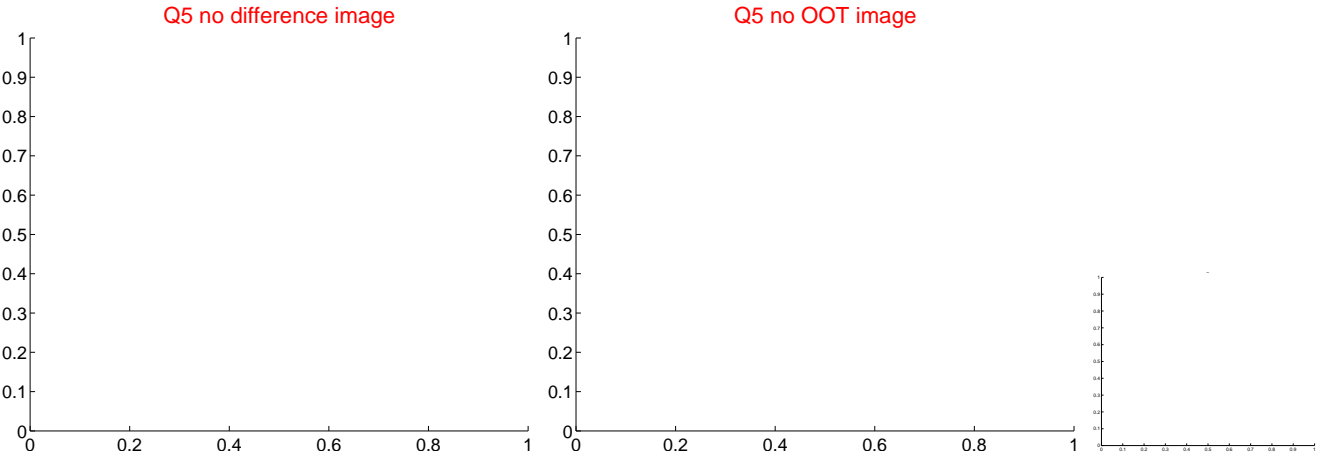


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

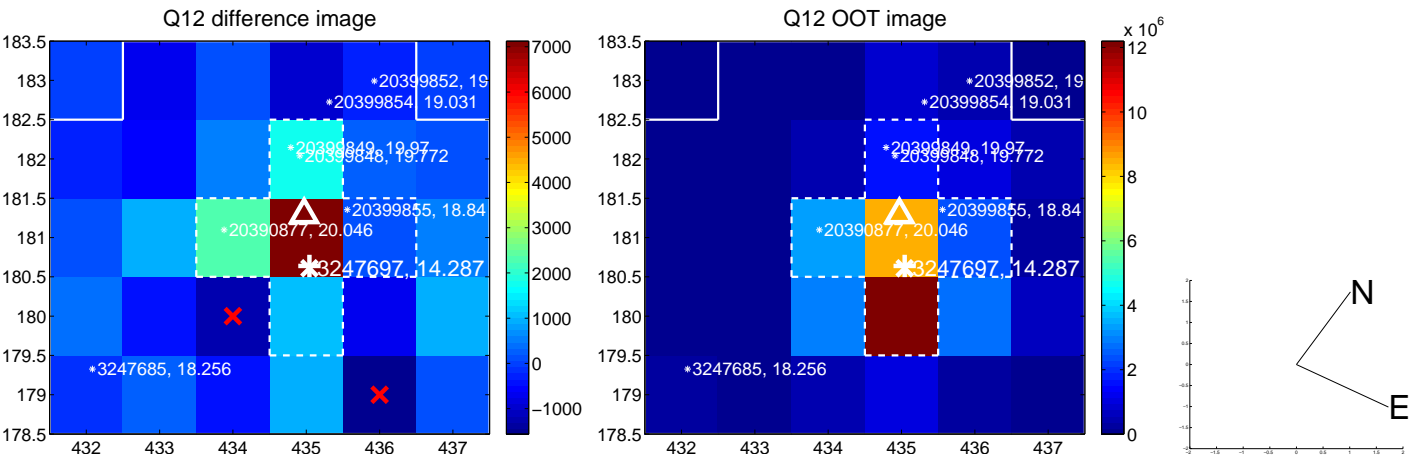
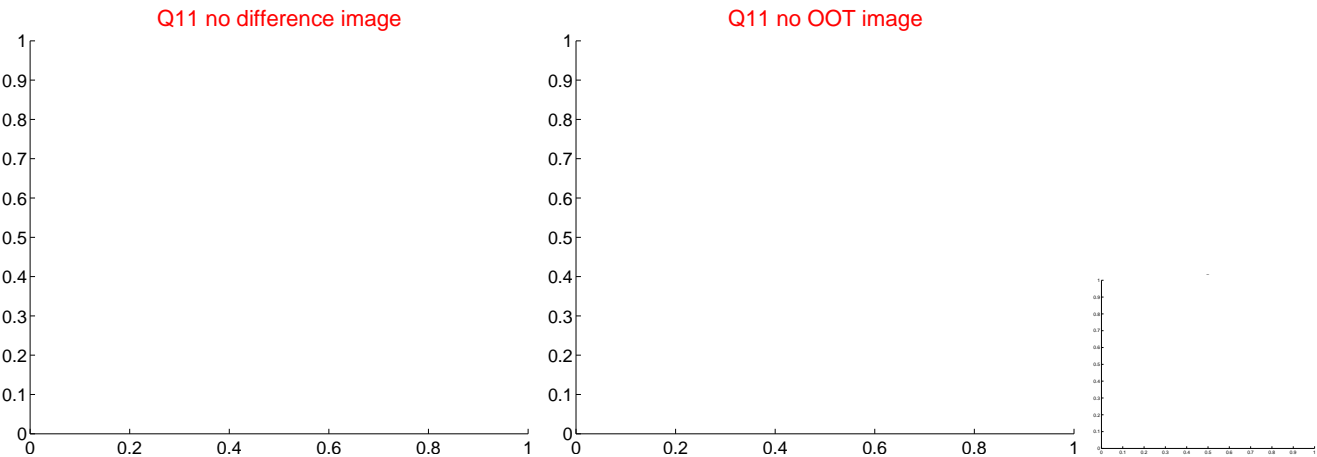
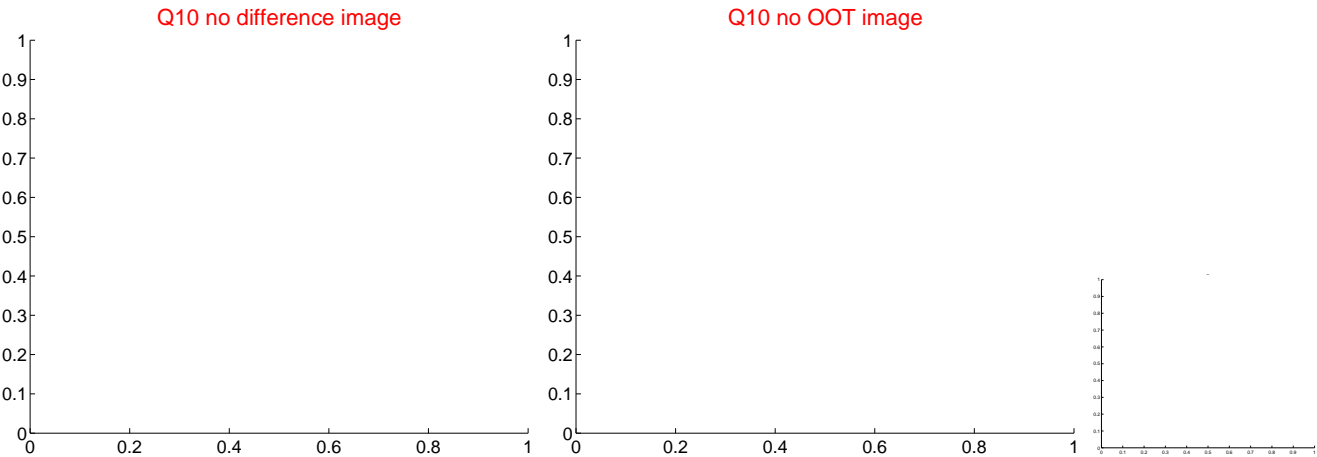
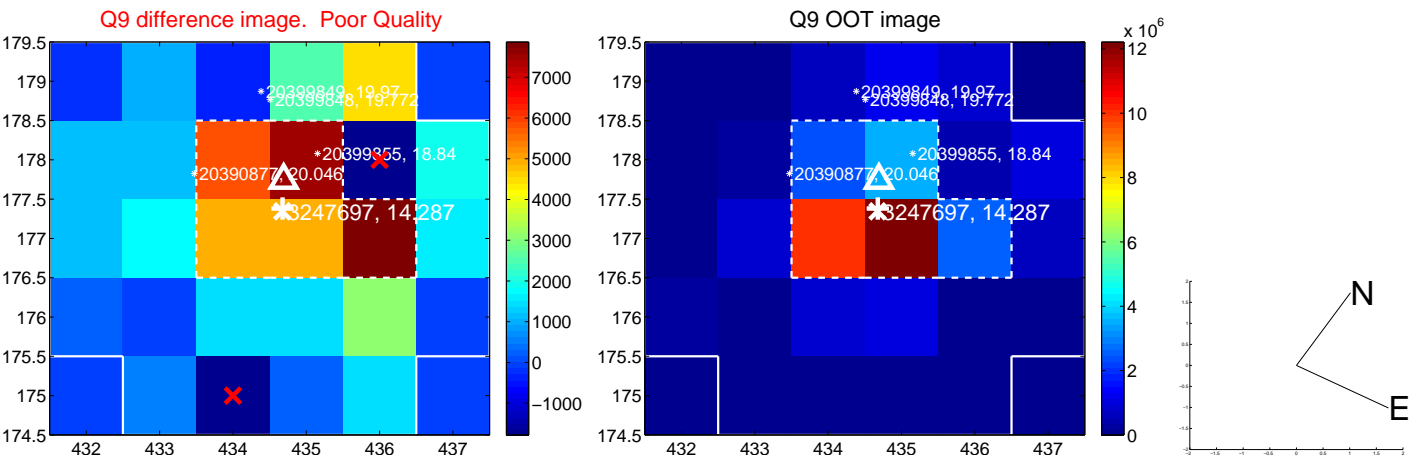
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



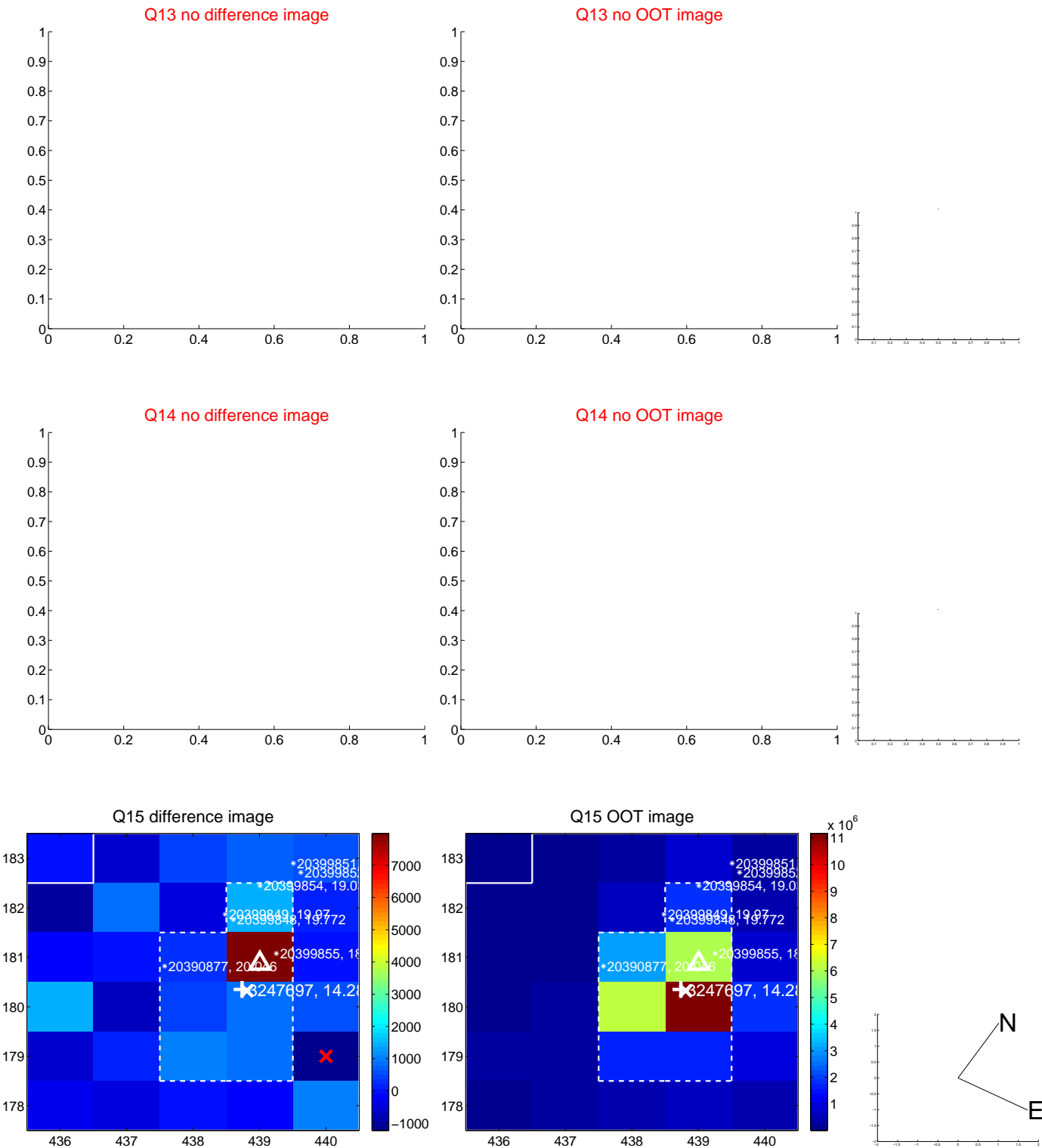
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



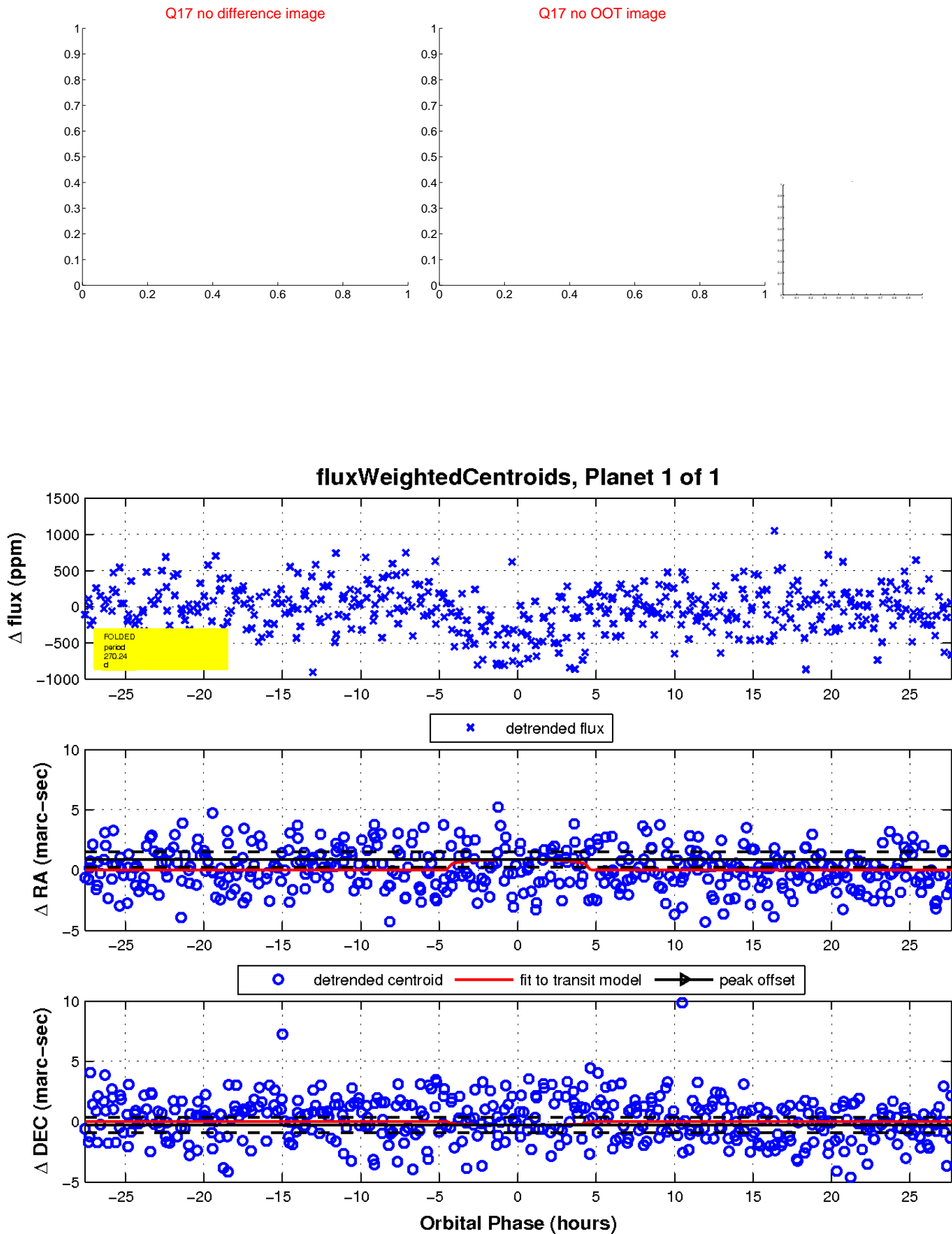
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

