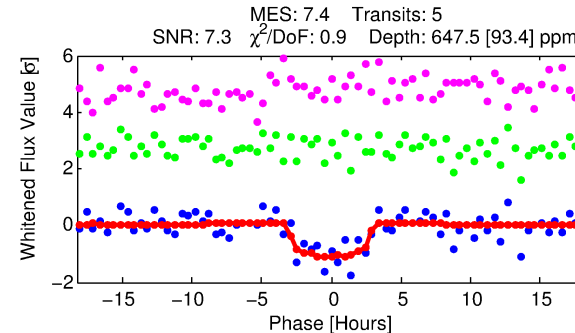
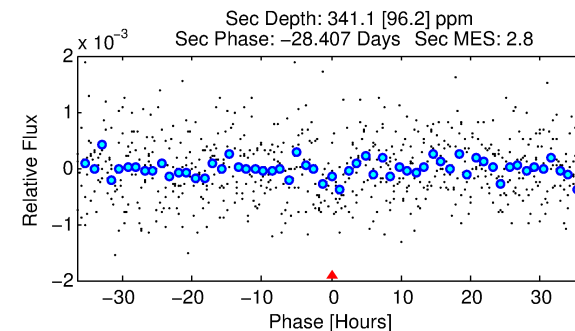
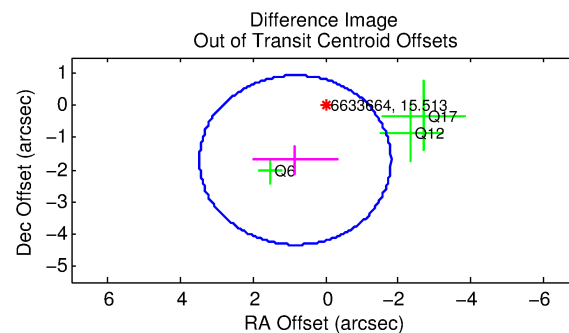
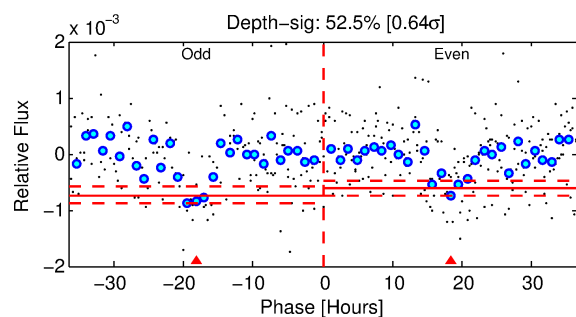
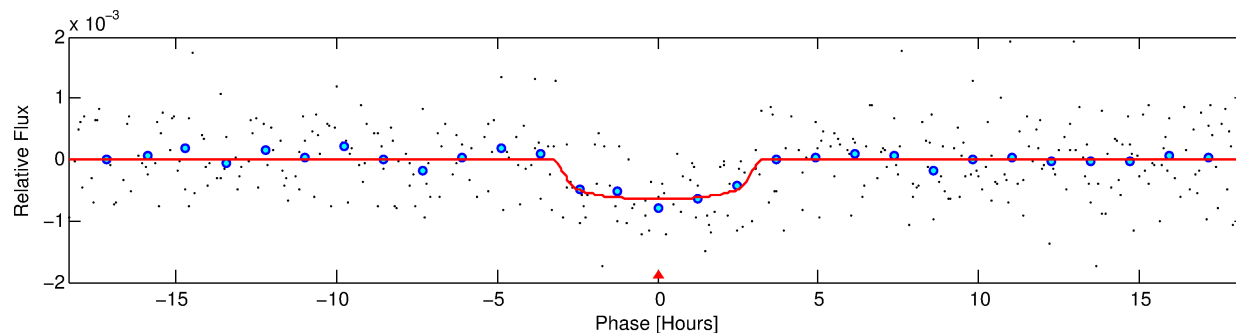
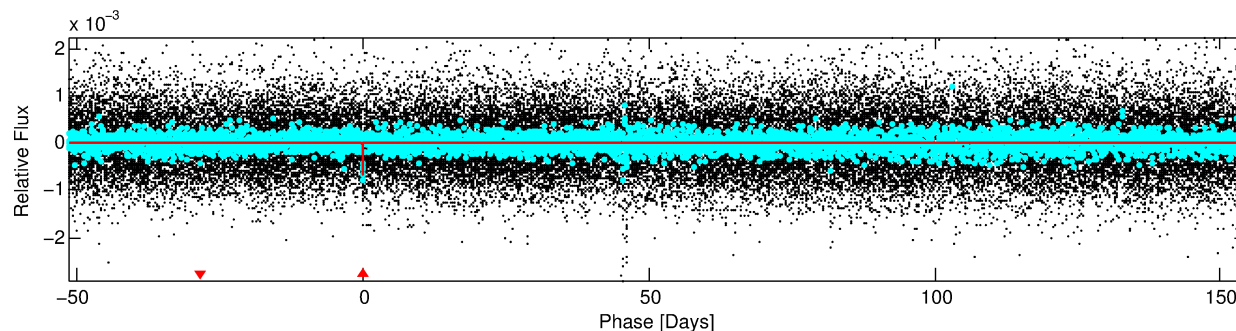
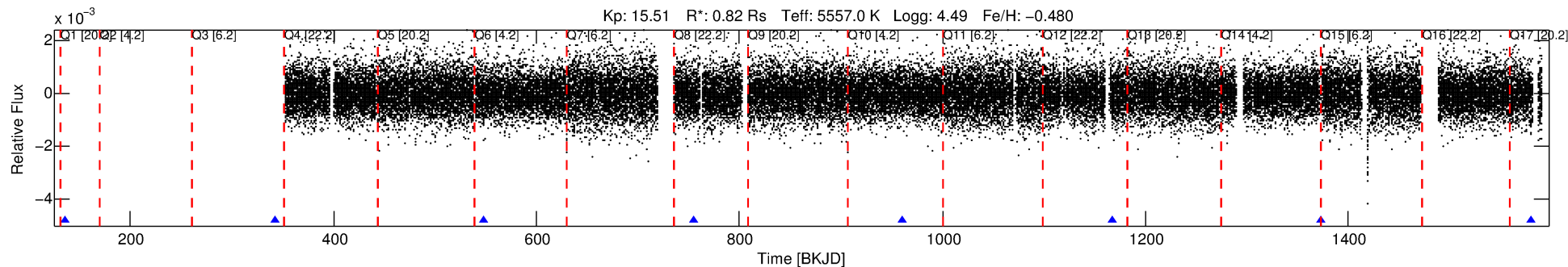


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 6633664 Candidate: 1 of 1 Period: 206.168 d

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



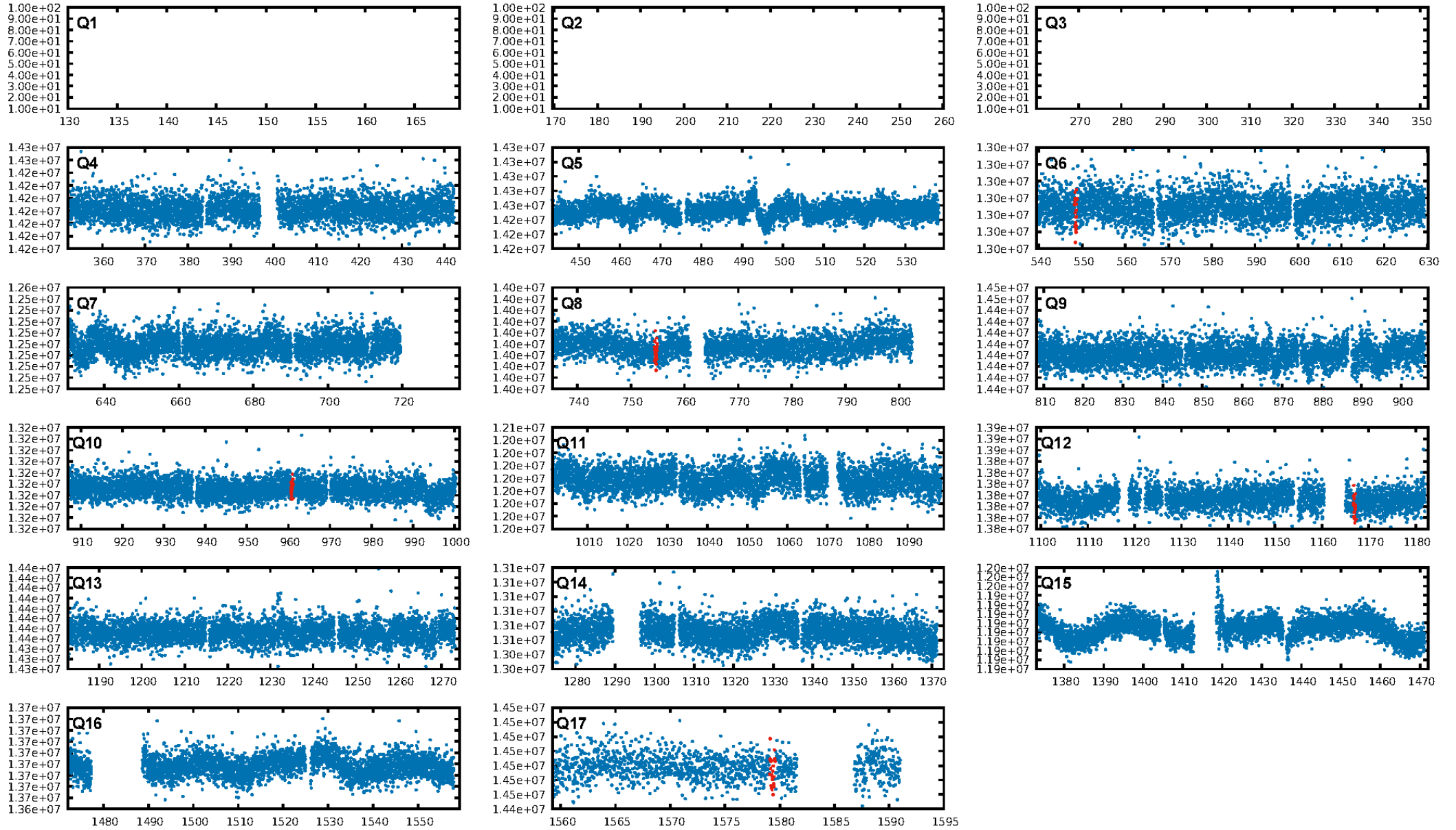
DV Fit Results:

Period = 206.16784 [0.00453] d
Epoch = 136.1575 [0.0220] BKJD
Rp/R* = 0.0242 [0.0331]
a/R* = 215.85 [1311.36]
b = 0.59 [6.82]
Seff = 1.47 [0.41]
Teq = 281 [20] K
Rp = 2.16 [2.99] Re
a = 0.6218 [0.1040] AU
Ag = 15581.01 [43059.99] [0.36 σ]
Teff = 4854 [3345] K [1.37 σ]

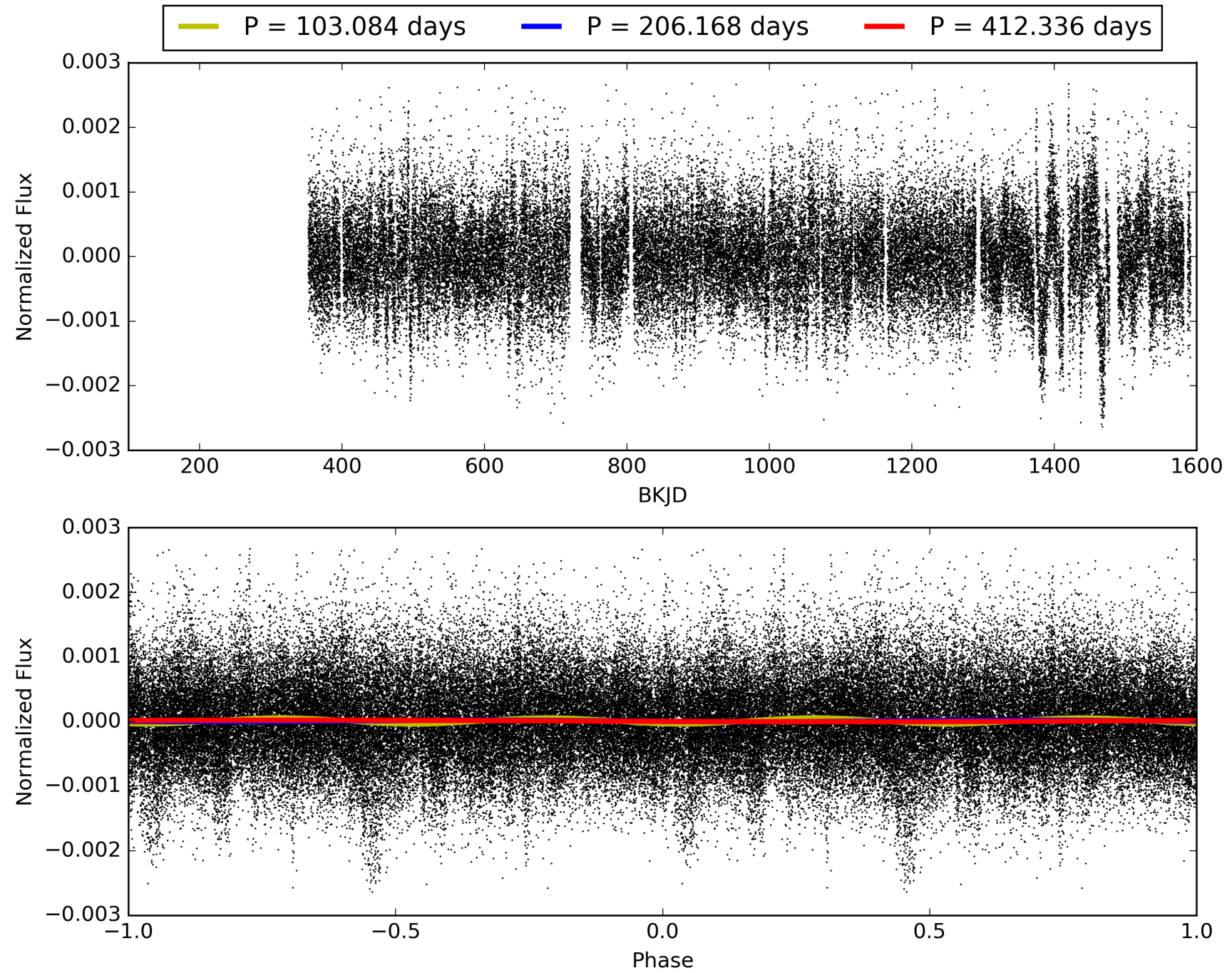
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 9.5%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: 3.06e-14
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 10.9
Centroid-sig: 87.7%
Centroid-so: 1.767 arcsec [1.47 σ]
OotOffset-rm: 1.895 arcsec [2.15 σ]
OotOffset-st: 1/0/1/1 [3]
KicOffset-rm: 2.565 arcsec [4.00 σ]
KicOffset-st: 1/0/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [5/5]

TCE 006633664-01, PDC Light Curves

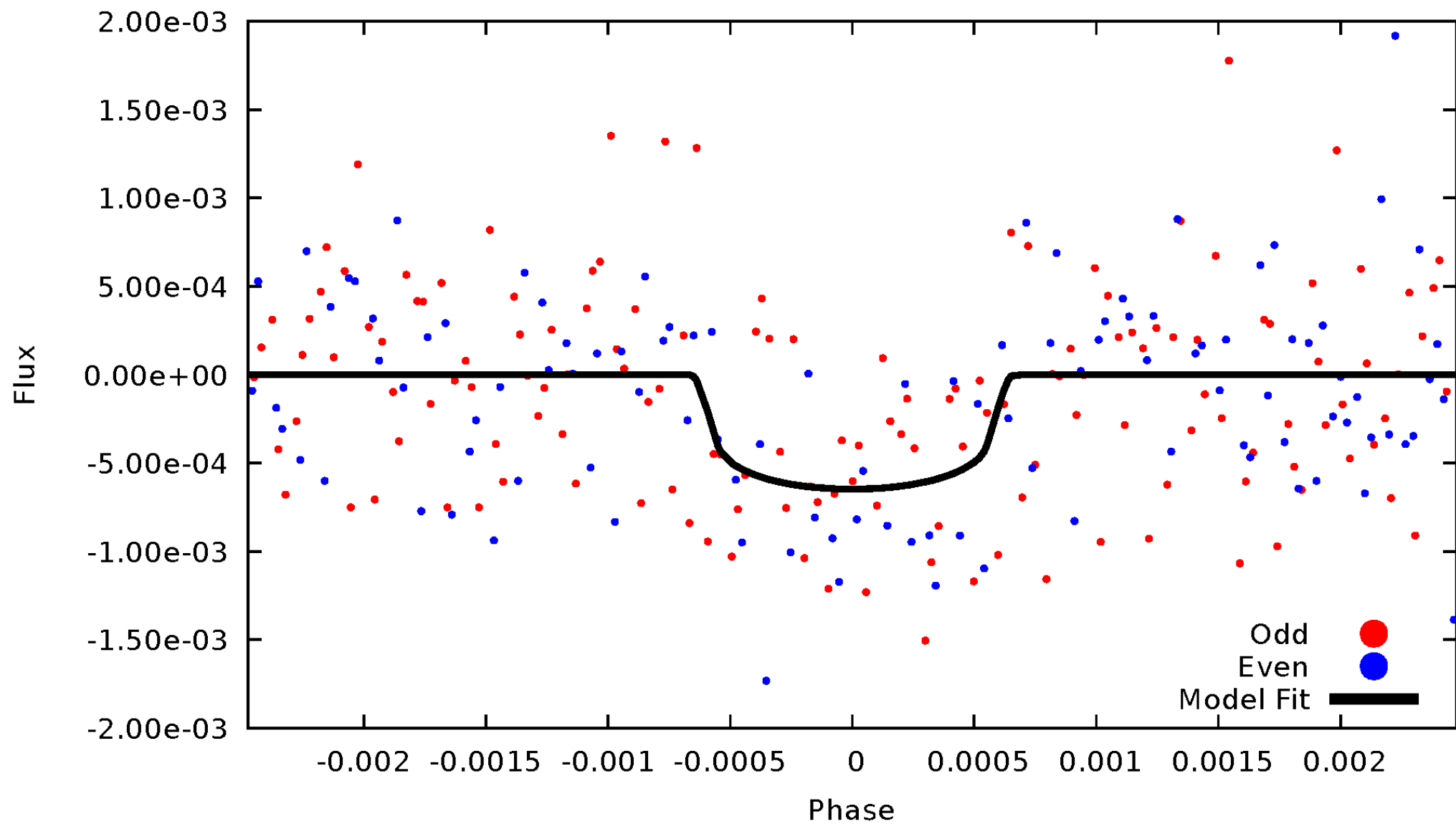


TCE 006633664-01



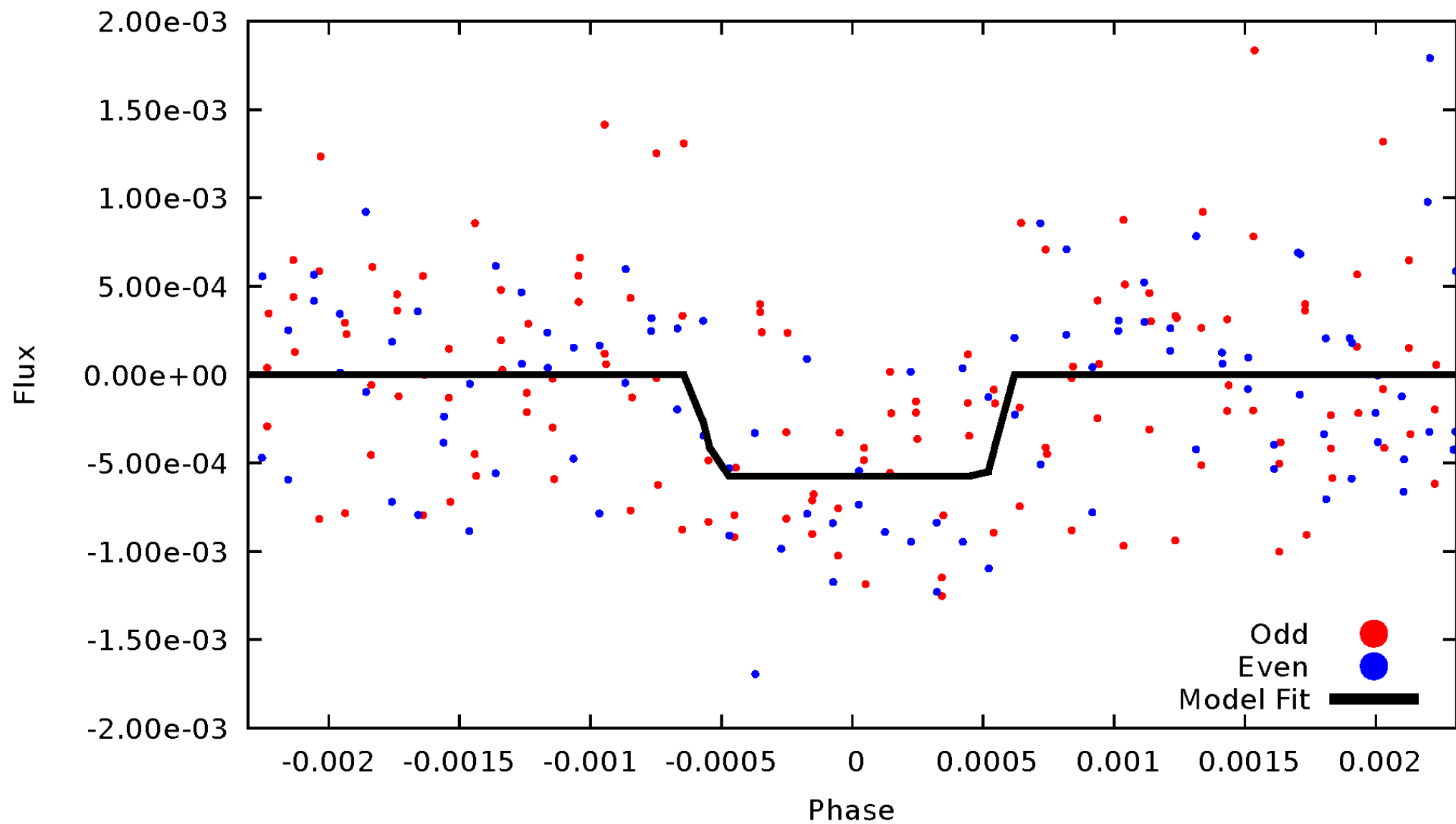
DV Odd/Even

TCE 006633664-01

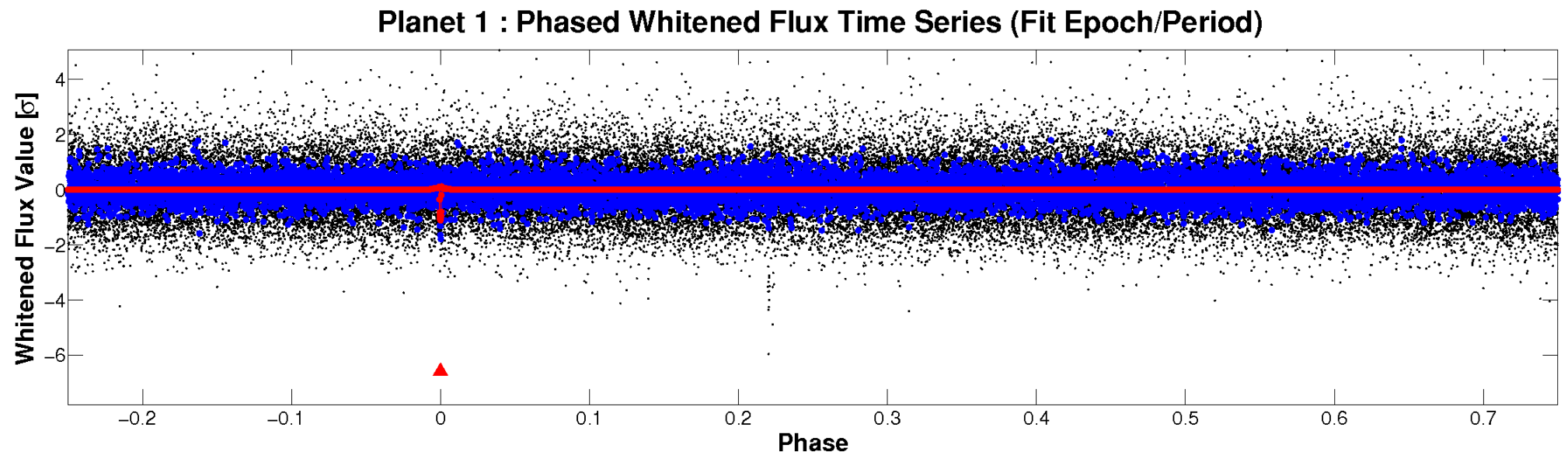
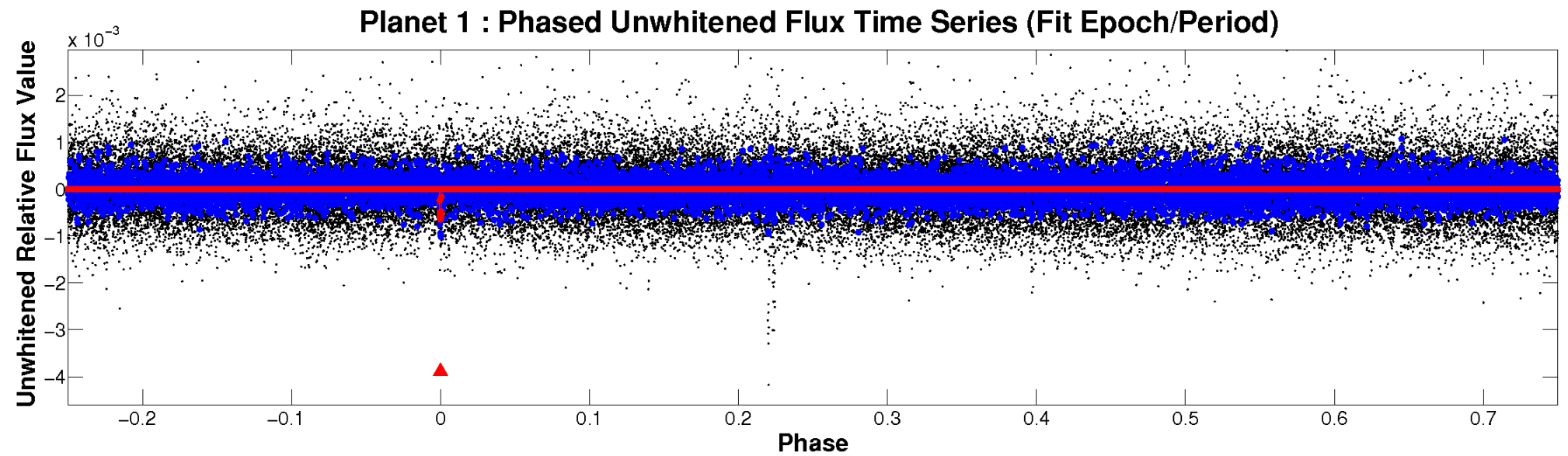


ALT Odd/Even

TCE 006633664-01

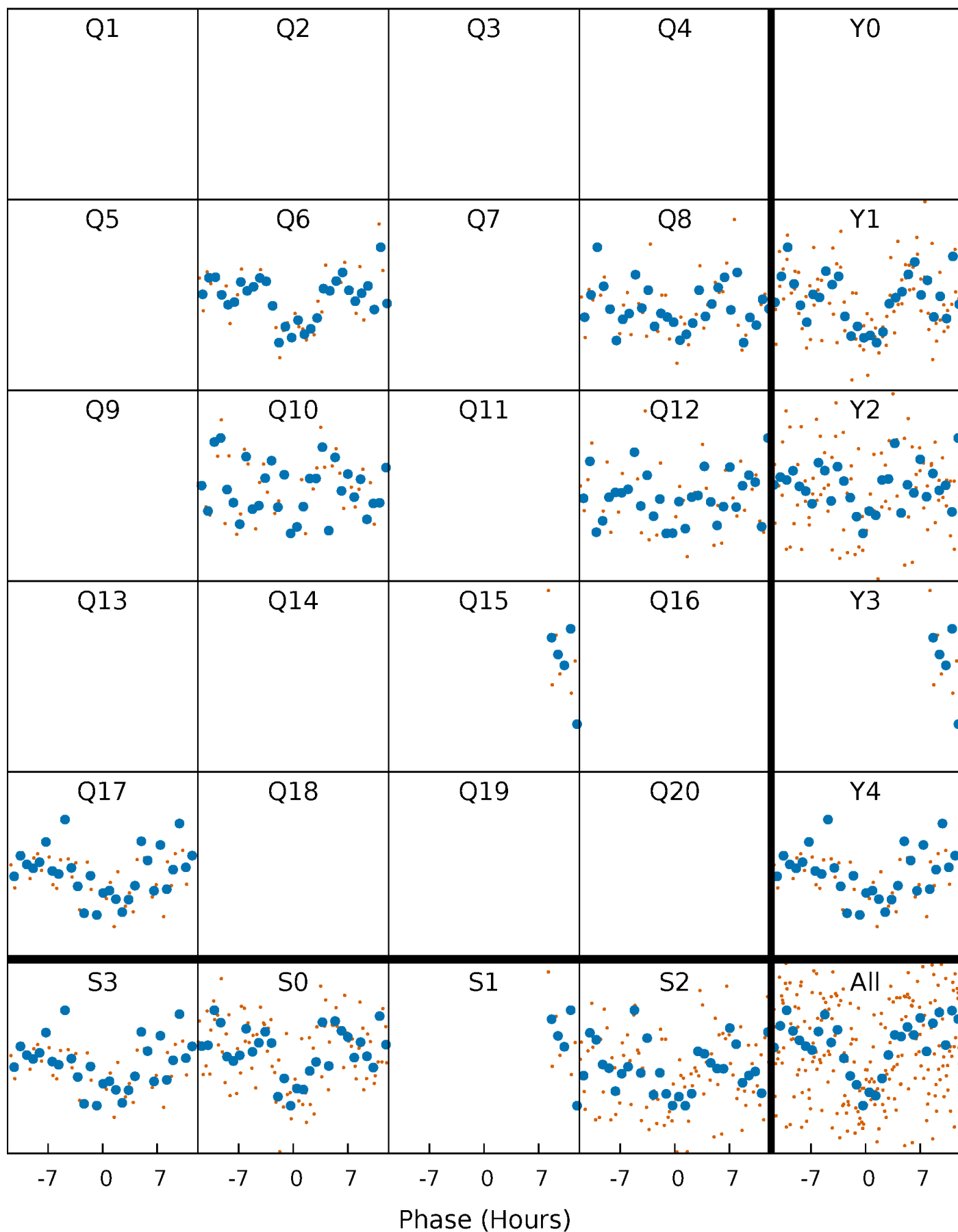


Non-Whitened Vs. Whitened Light Curve



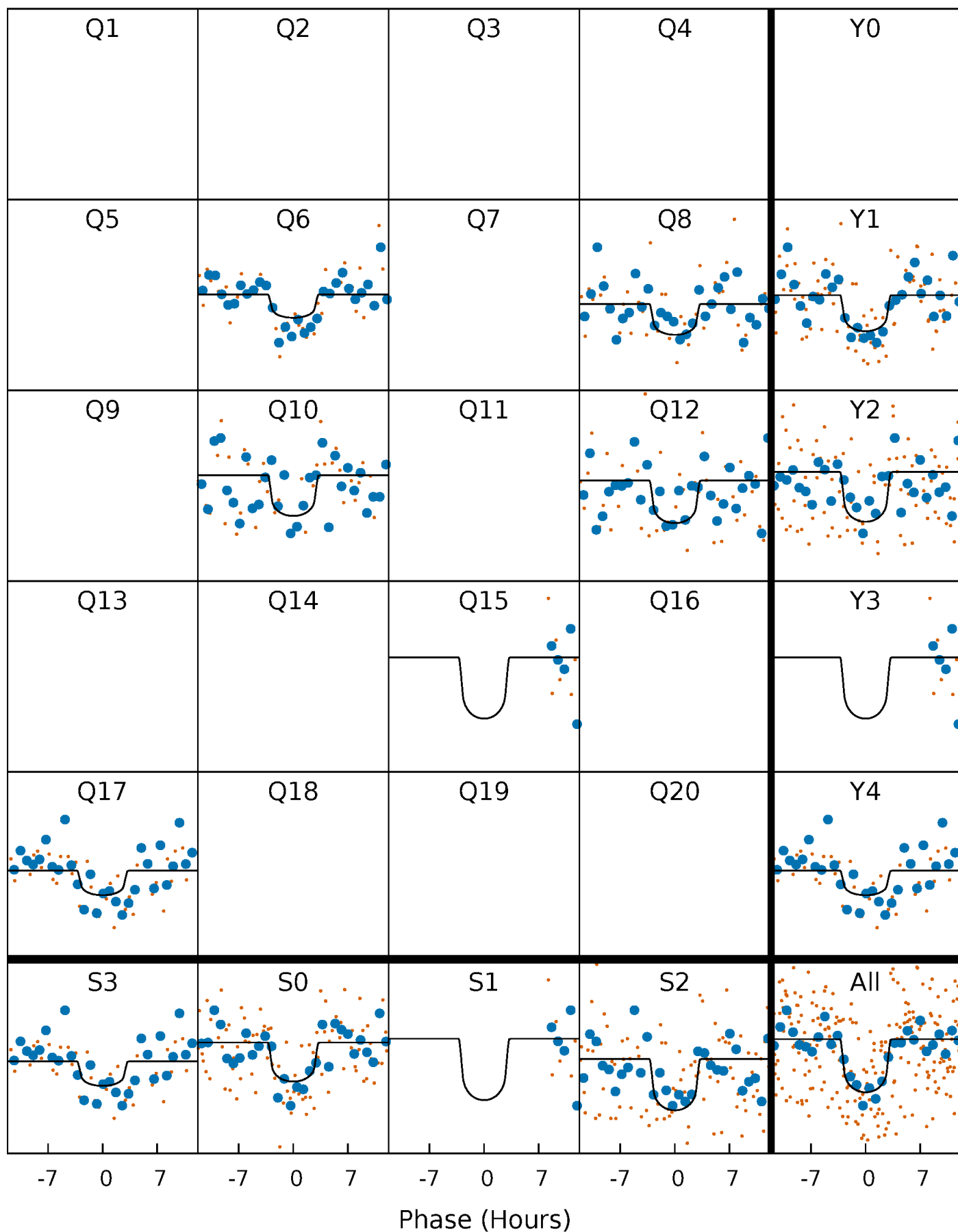
PDC Quarter-Phased Transit Curves

TCE 006633664-01 P=206.167836 Days $T_0=136.157481$ (BKJD)



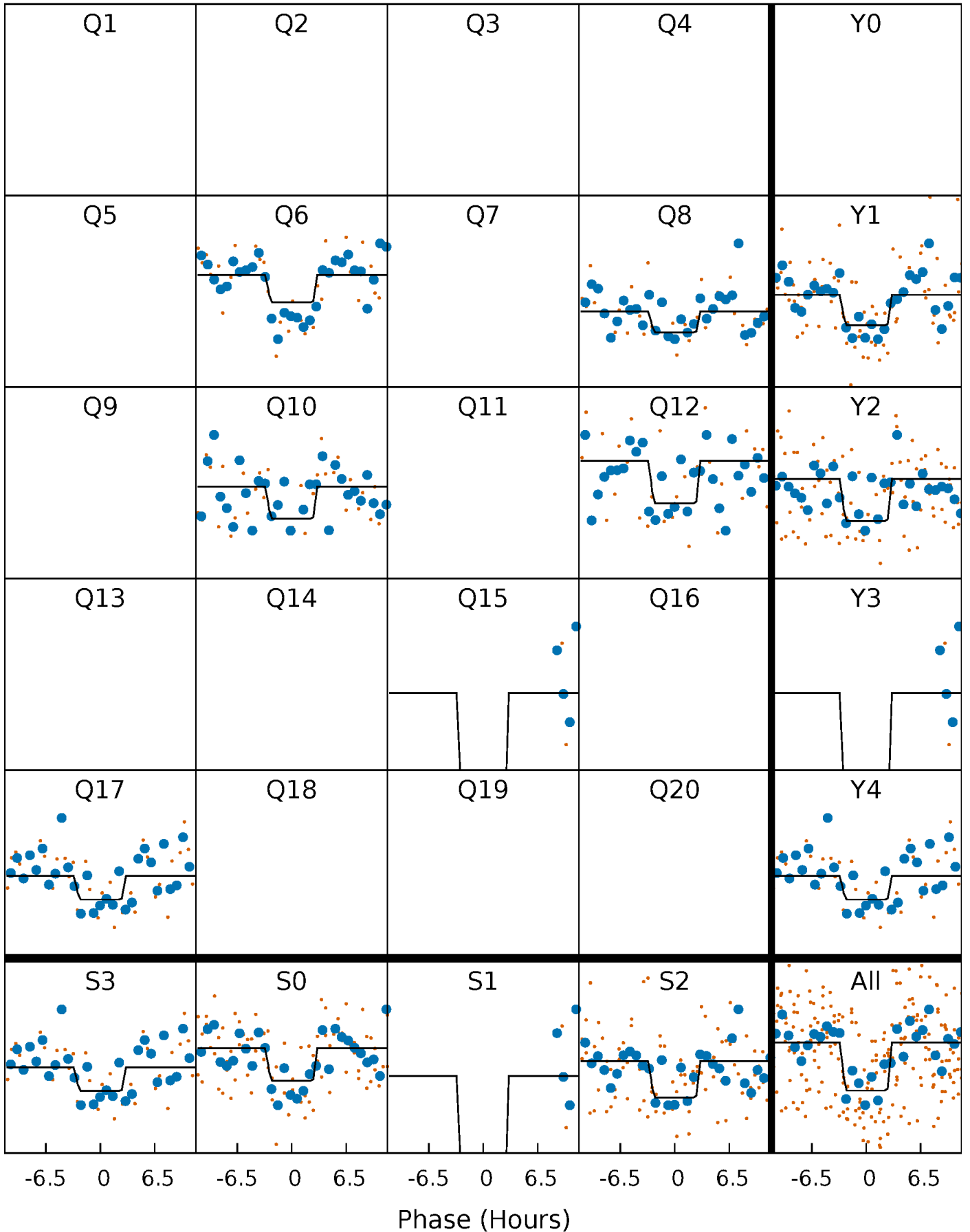
DV Quarter-Phased Transit Curves

TCE 006633664-01 P=206.167836 Days $T_0=136.157481$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

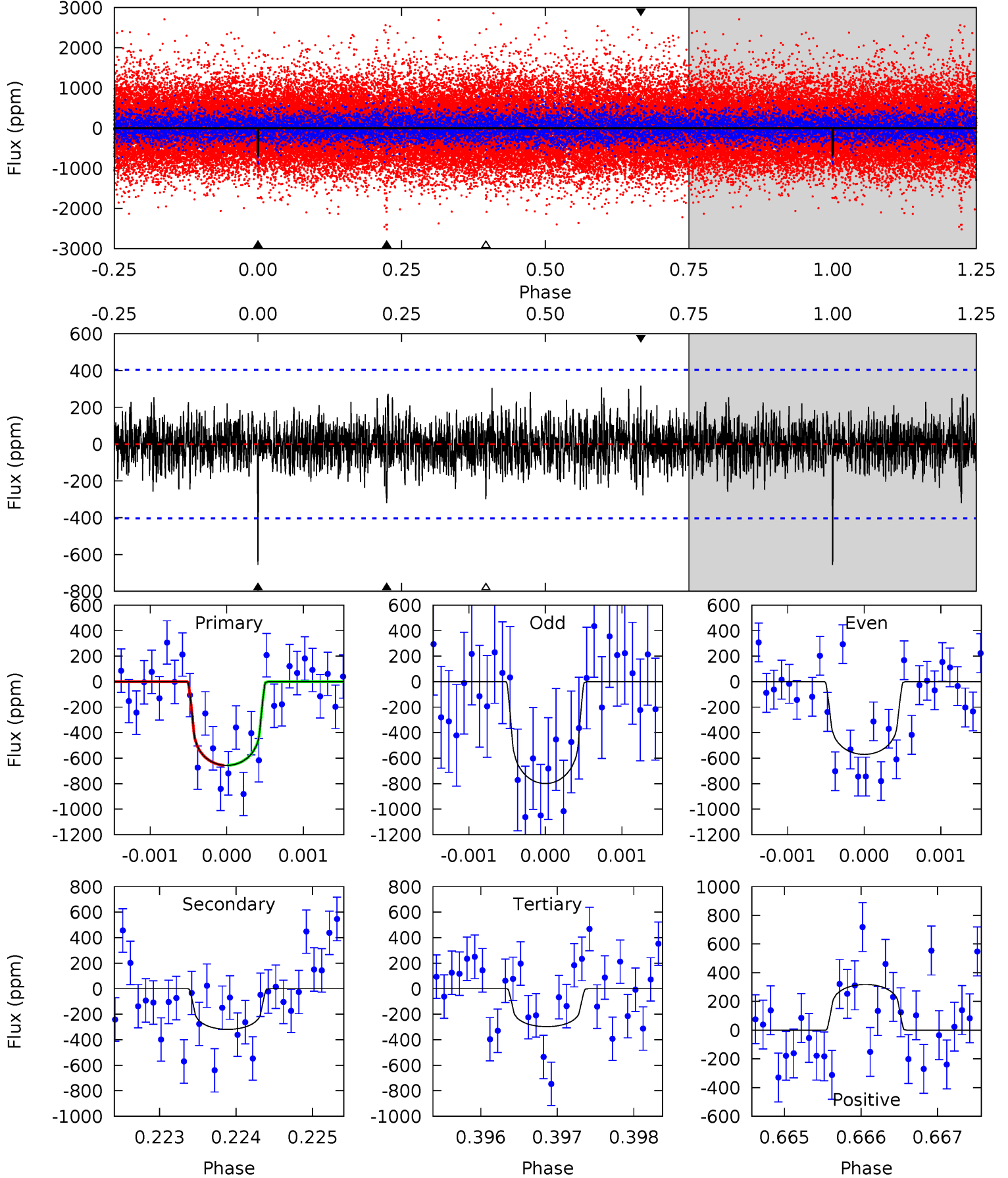
TCE 006633664-01 P=206.165323 Days $T_0=136.166254$ (BKJD)



DV Model-Shift Uniqueness Test

006633664-01, P = 206.167836 Days, E = 136.157481 Days

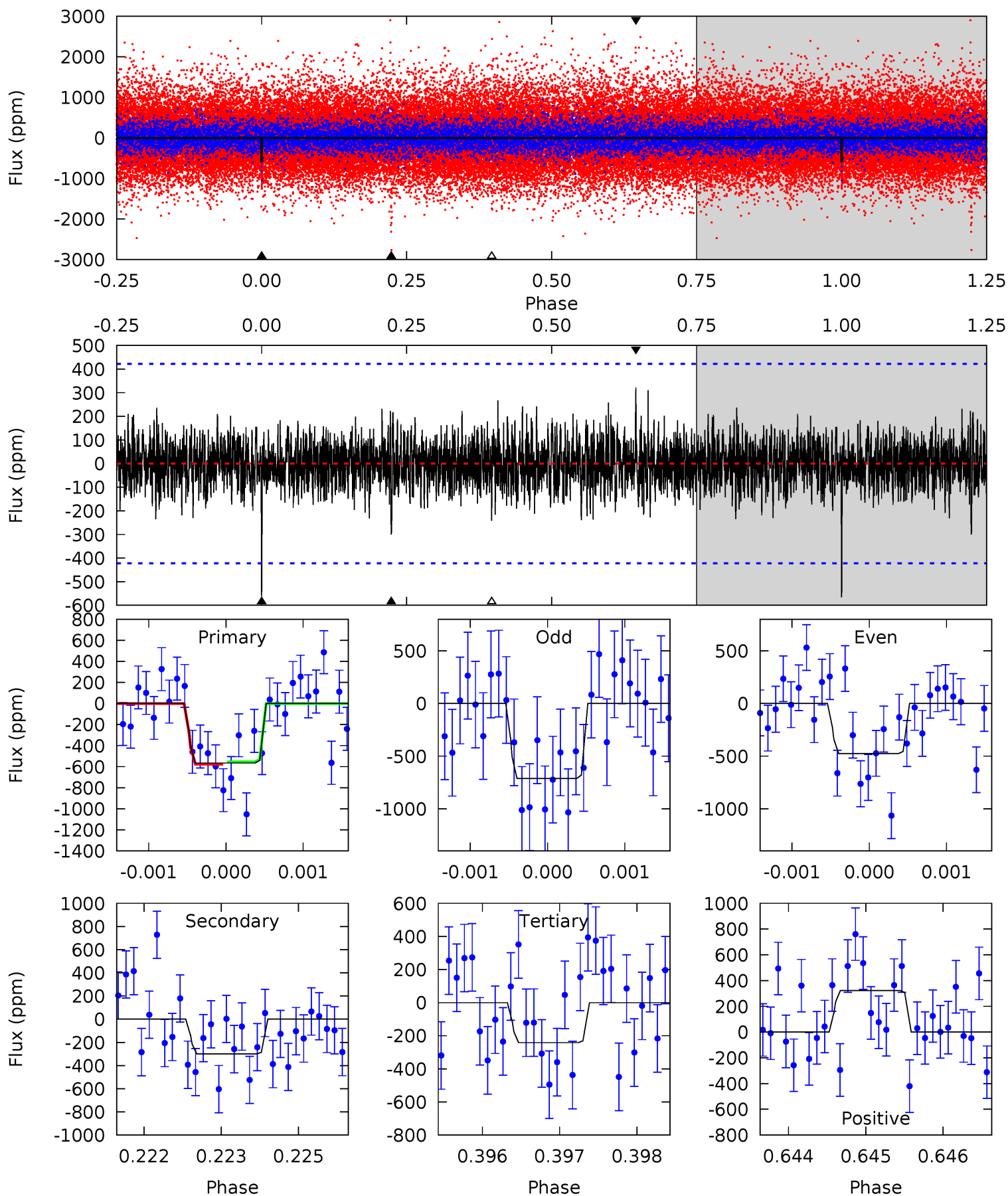
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.80	4.27	3.99	4.26	5.41	3.22	1.13	4.81	4.53	0.28	0.01	1.50	1.38	0.33	0.01



Alt Model-Shift Uniqueness Test

006633664-01, P = 206.165323 Days, E = 136.166254 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.26	3.85	3.10	4.14	5.42	3.24	0.96	4.16	3.12	0.75	-0.29	1.46	1.21	0.36	0.13



Stellar Parameters For KIC 006633664

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5557^{+194}_{-194}	$4.491^{+0.108}_{-0.132}$	$-0.480^{+0.300}_{-0.300}$	$0.817^{+0.163}_{-0.109}$	$0.754^{+0.110}_{-0.047}$	$1.950^{+0.901}_{-0.722}$
	+3%/-3%	+2%/-3%	+62%/-62%	+20%/-13%	+15%/-6%	+46%/-37%
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 006633664-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-319 ± 75	$3.07^{+2.69}_{-2.09}$	395^{+25}_{-21}	4323^{+2822}_{-898}	7627^{+61929}_{-5637}
Alt.	-300 ± 78	$3.12^{+2.79}_{-2.11}$	395^{+24}_{-19}	4175^{+2597}_{-803}	6580^{+51756}_{-4768}

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 $A_{obs} \gg 1.0$

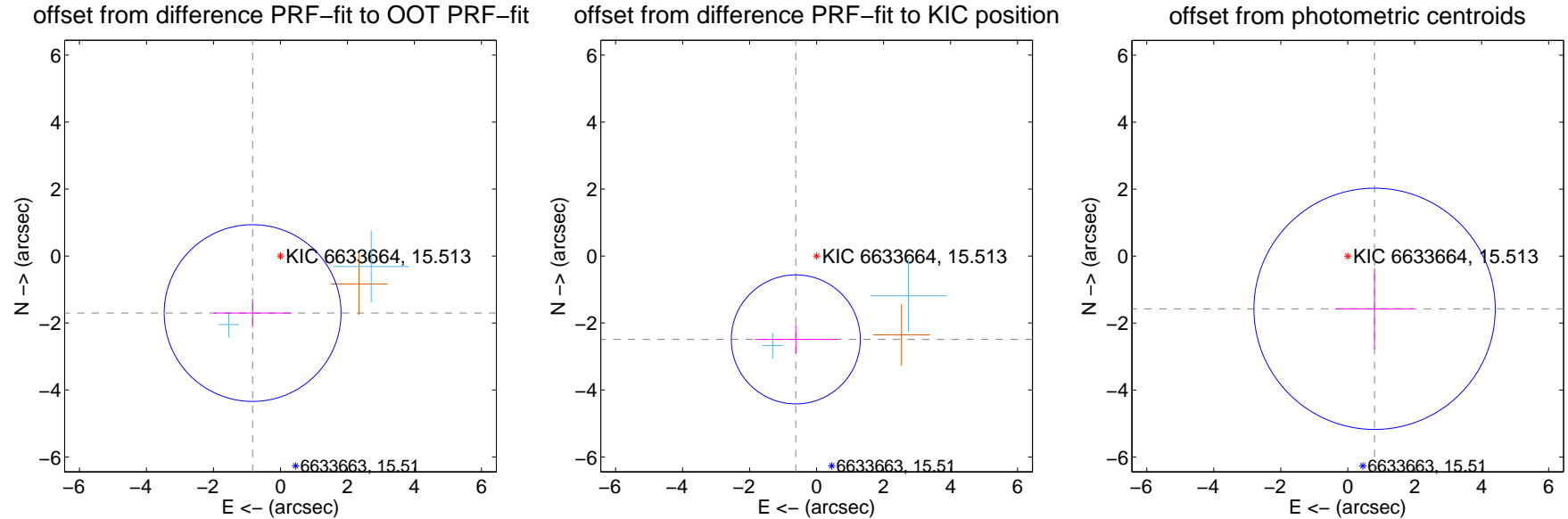
DV Centroid Data

Supplemental centroid analysis for 006633664-01. Kepler magnitude: 15.51. Transit SNR 7.25

There are 2 quarters with good PRF difference image offsets

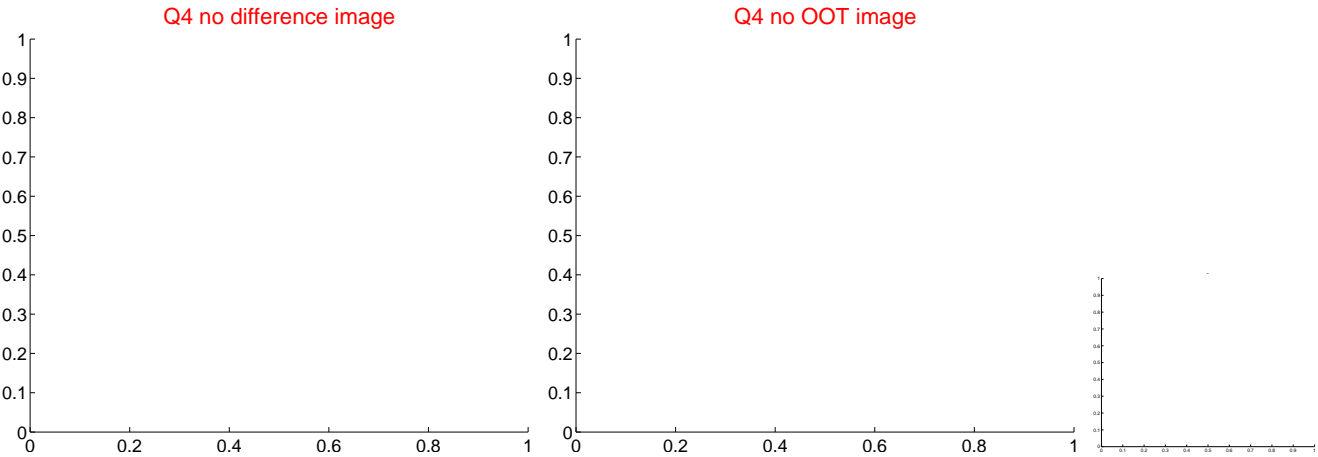
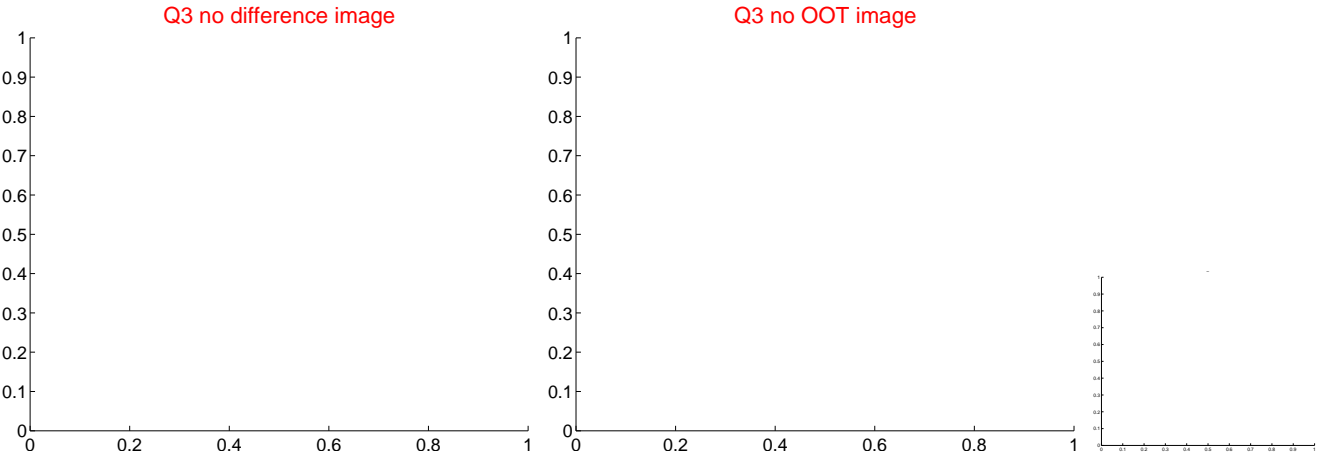
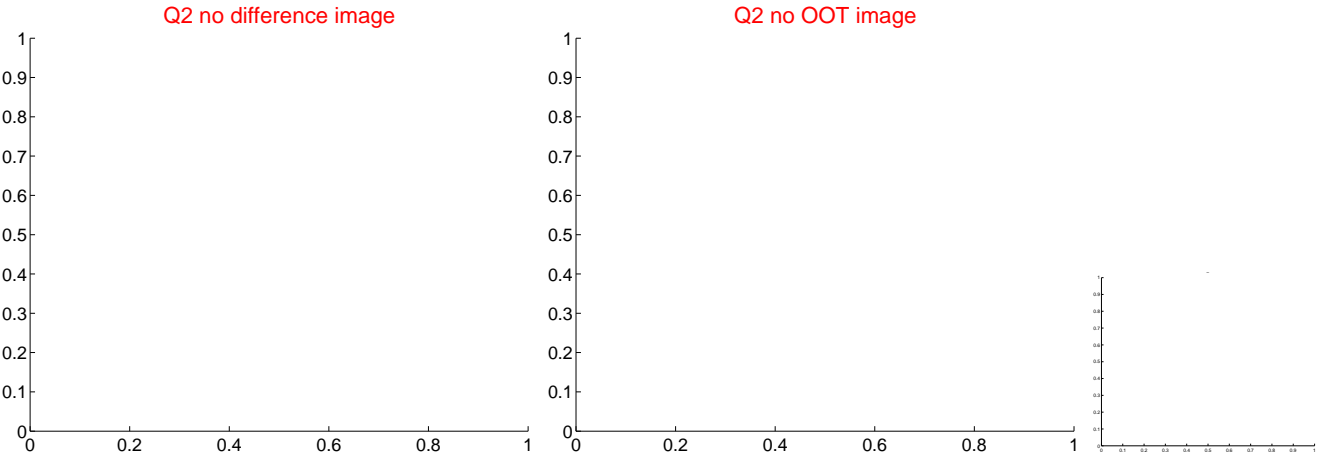
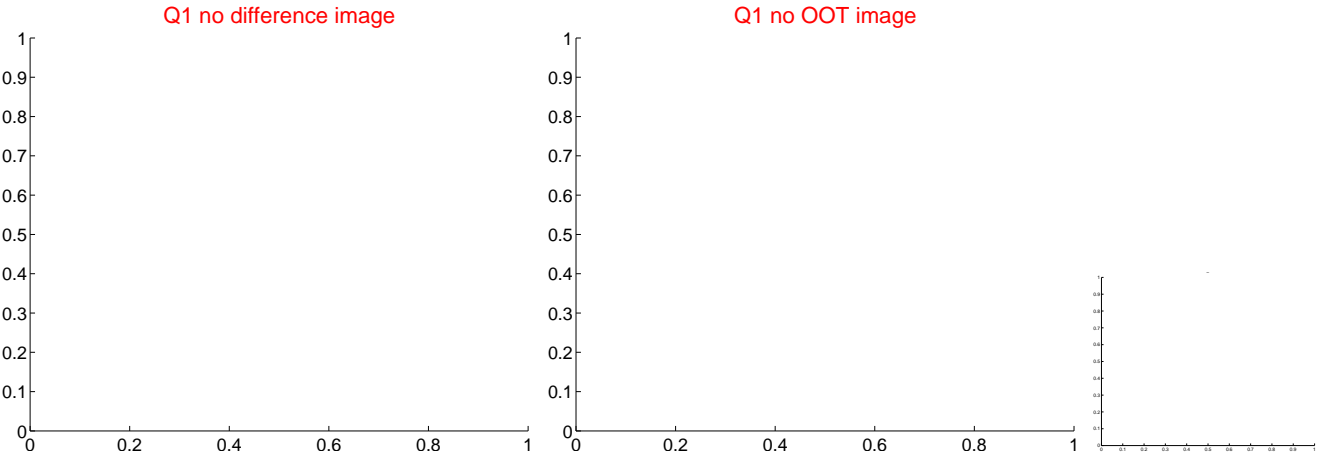
The direct PRF centroid is offset from the target star catalog position by about 0.87 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.895 ± 0.880	2.15	0.831 ± 1.162	-1.703 ± 0.420
PRF-fit source offset from KIC position	2.565 ± 0.642	4.00	0.620 ± 1.222	-2.489 ± 0.421
photometric centroid source offset	1.77 ± 1.20	1.47	-0.80 ± 1.17	-1.57 ± 1.21

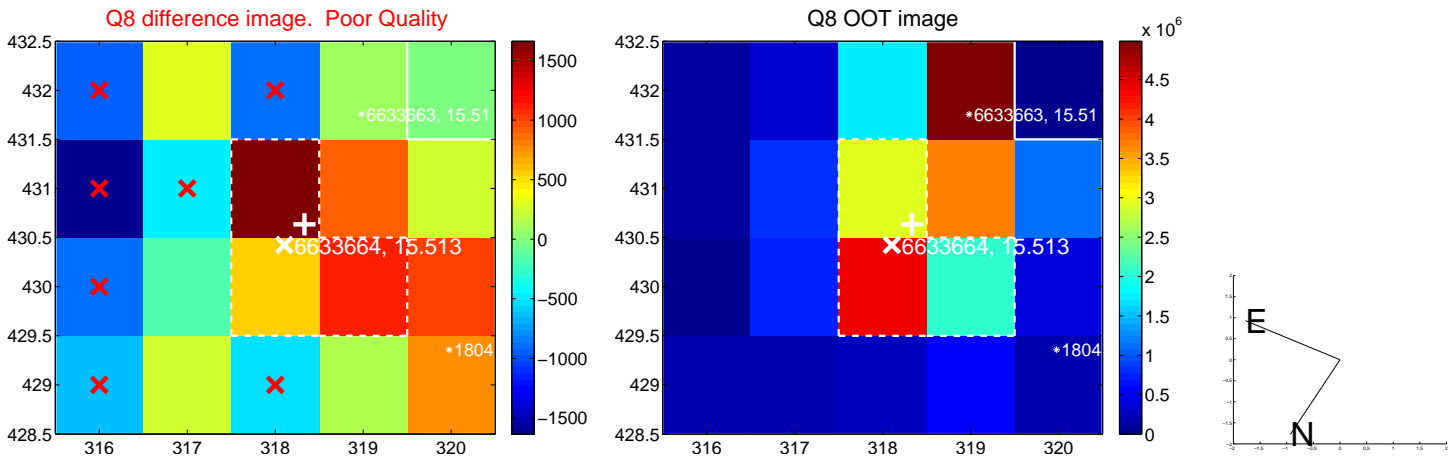
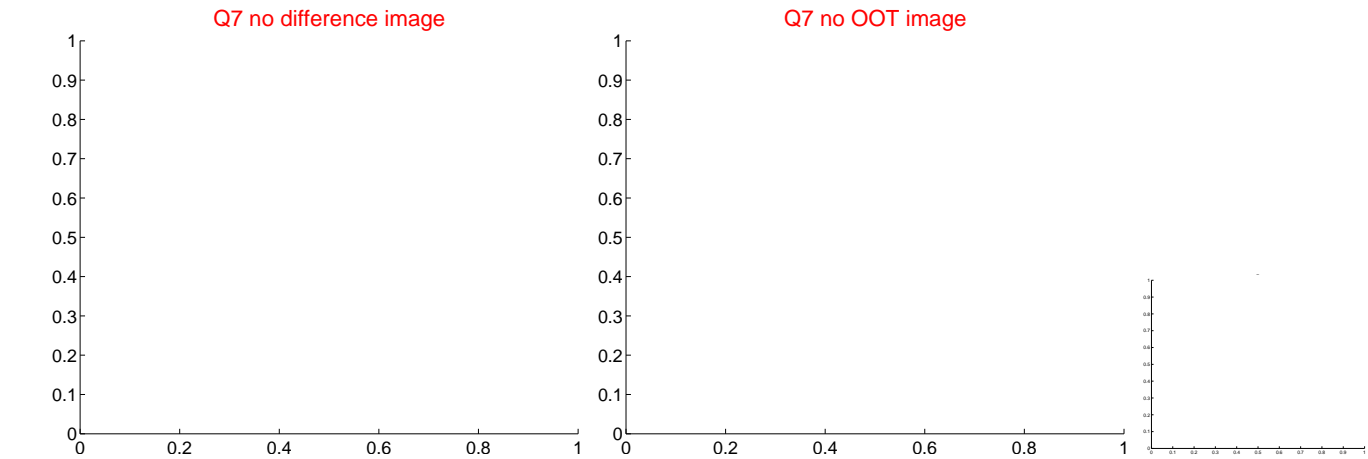
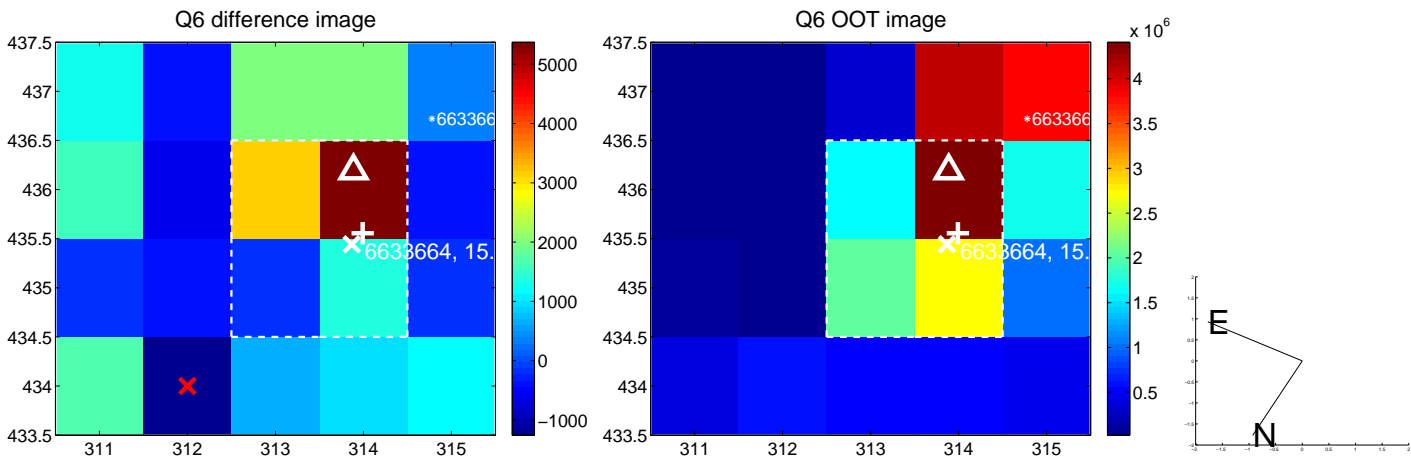
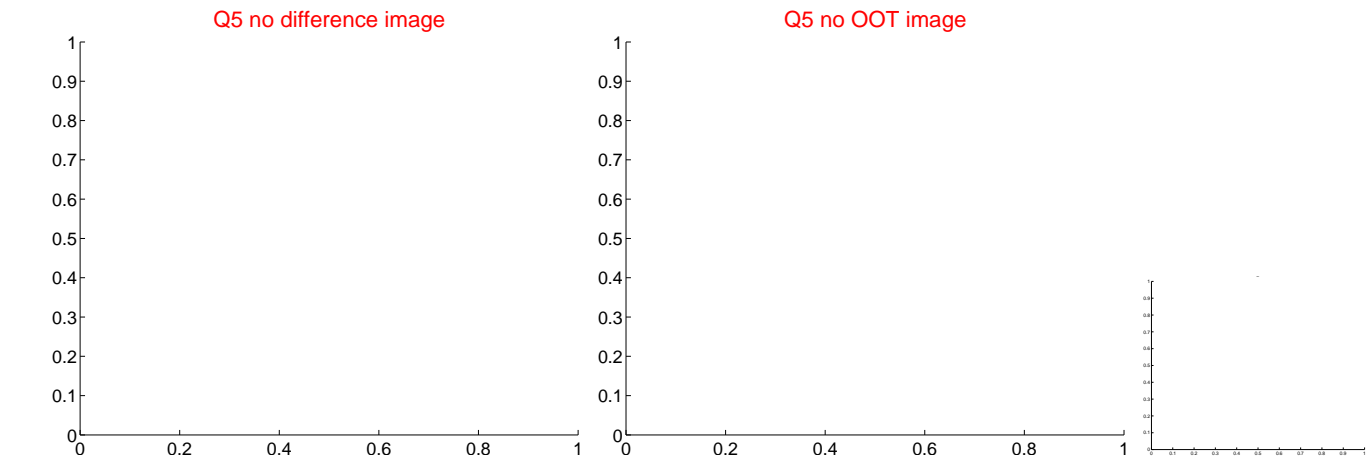


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

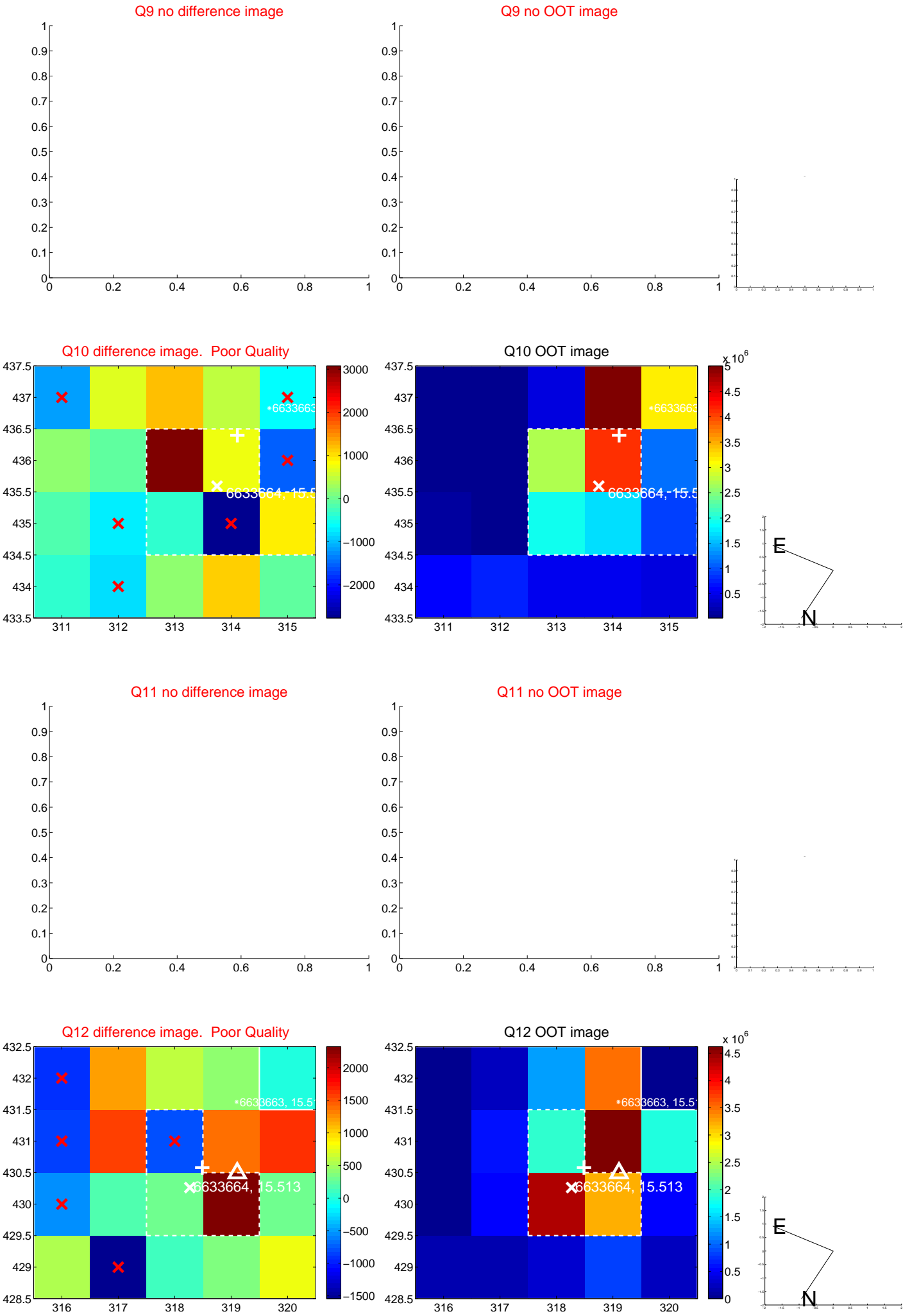
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



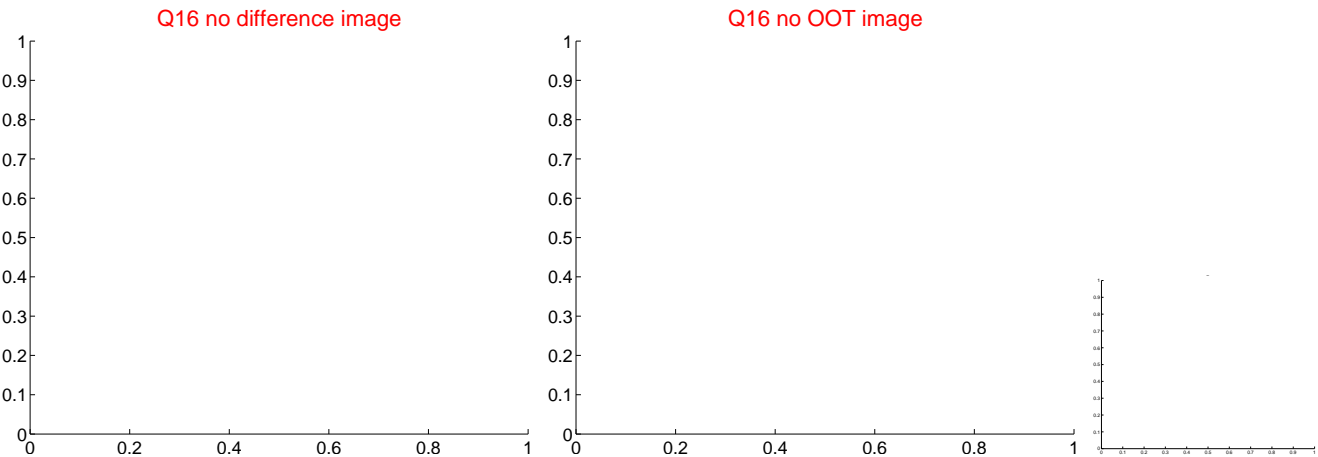
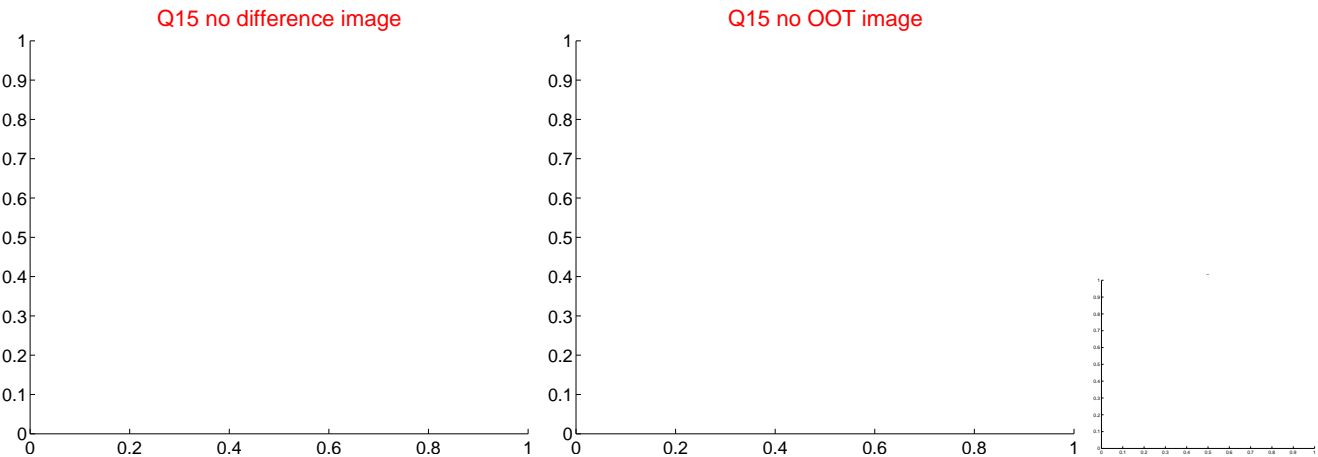
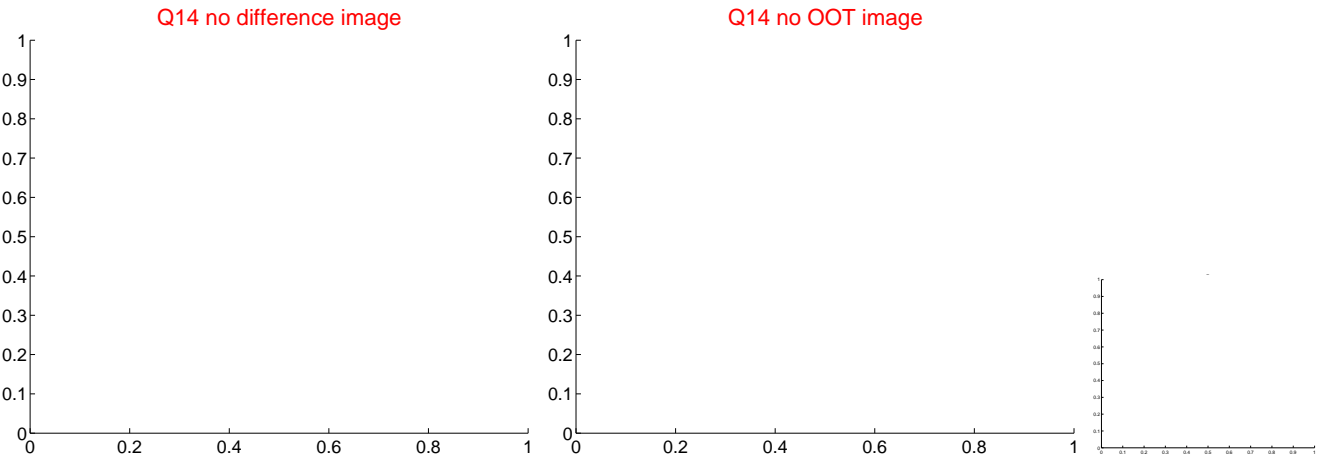
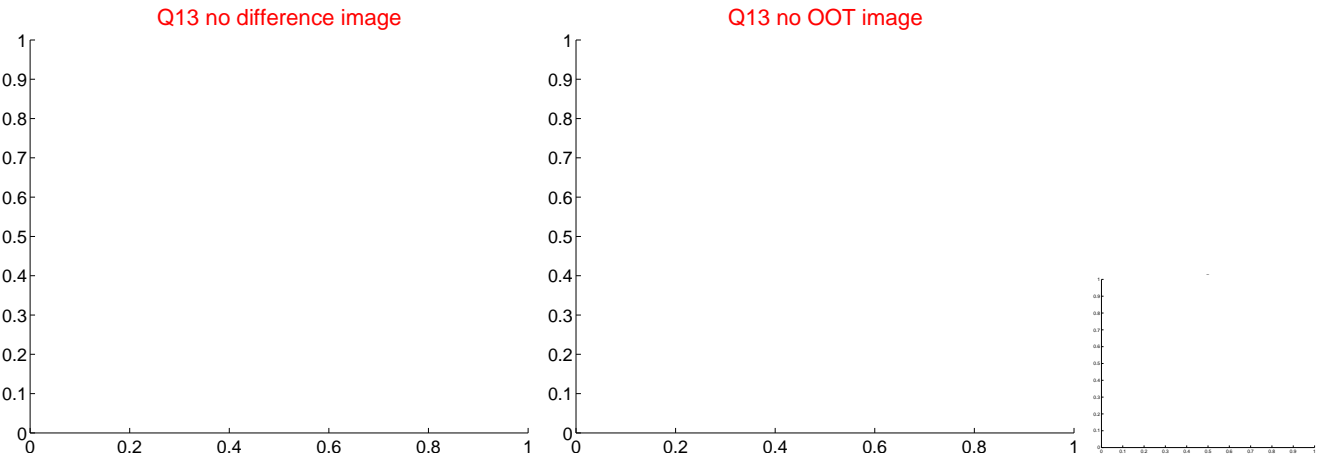
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



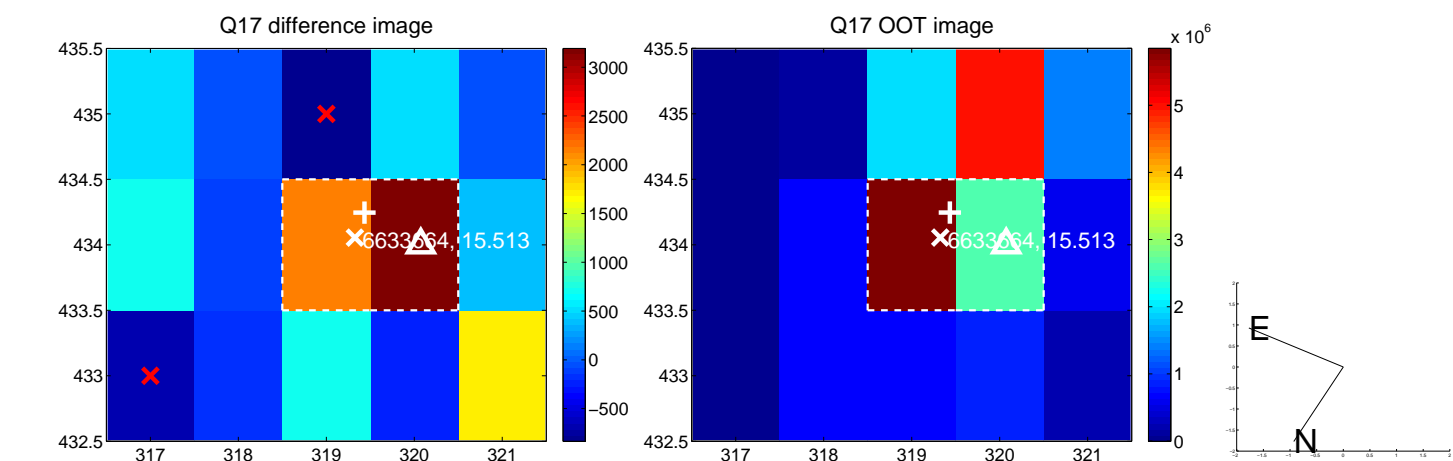
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



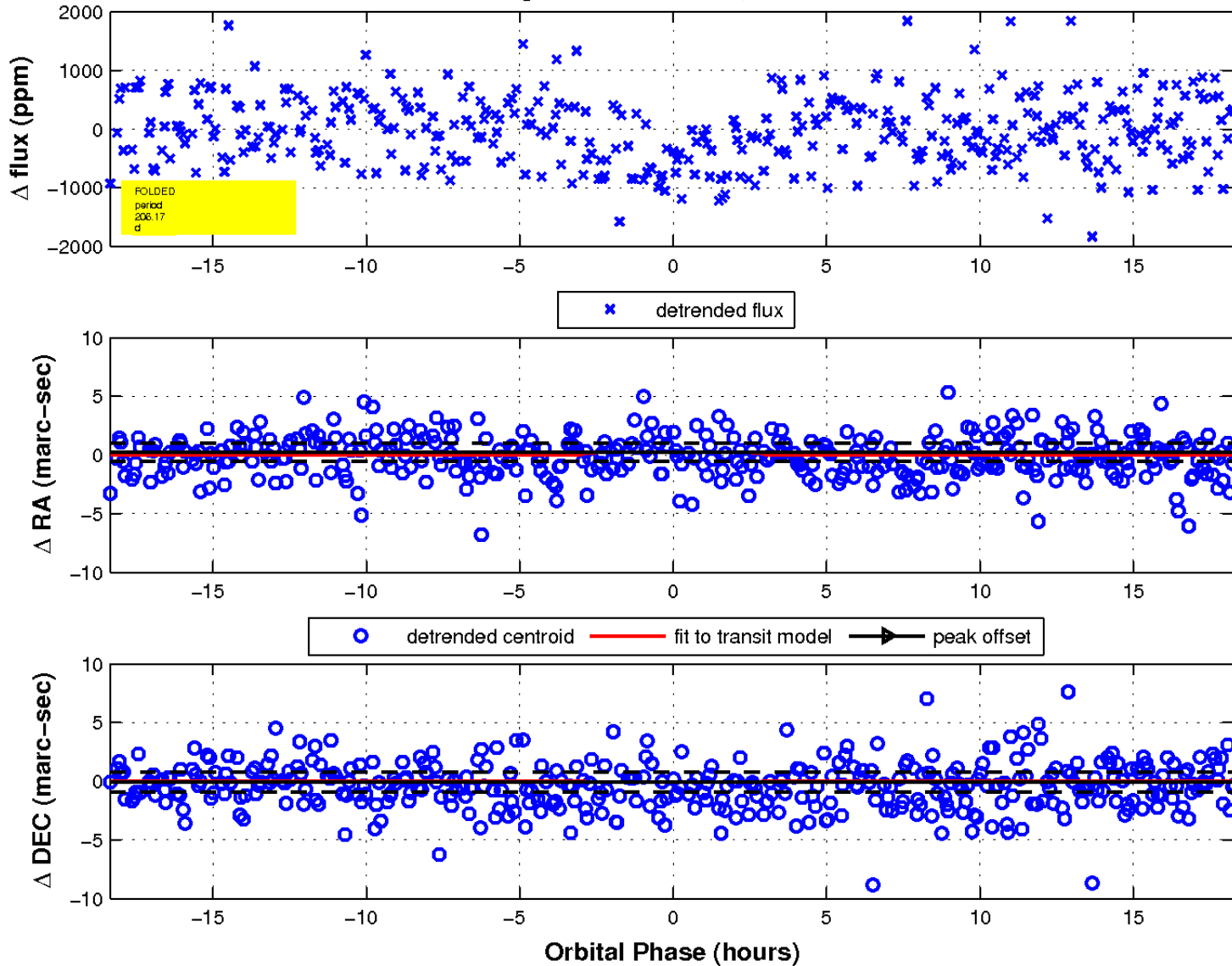
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

