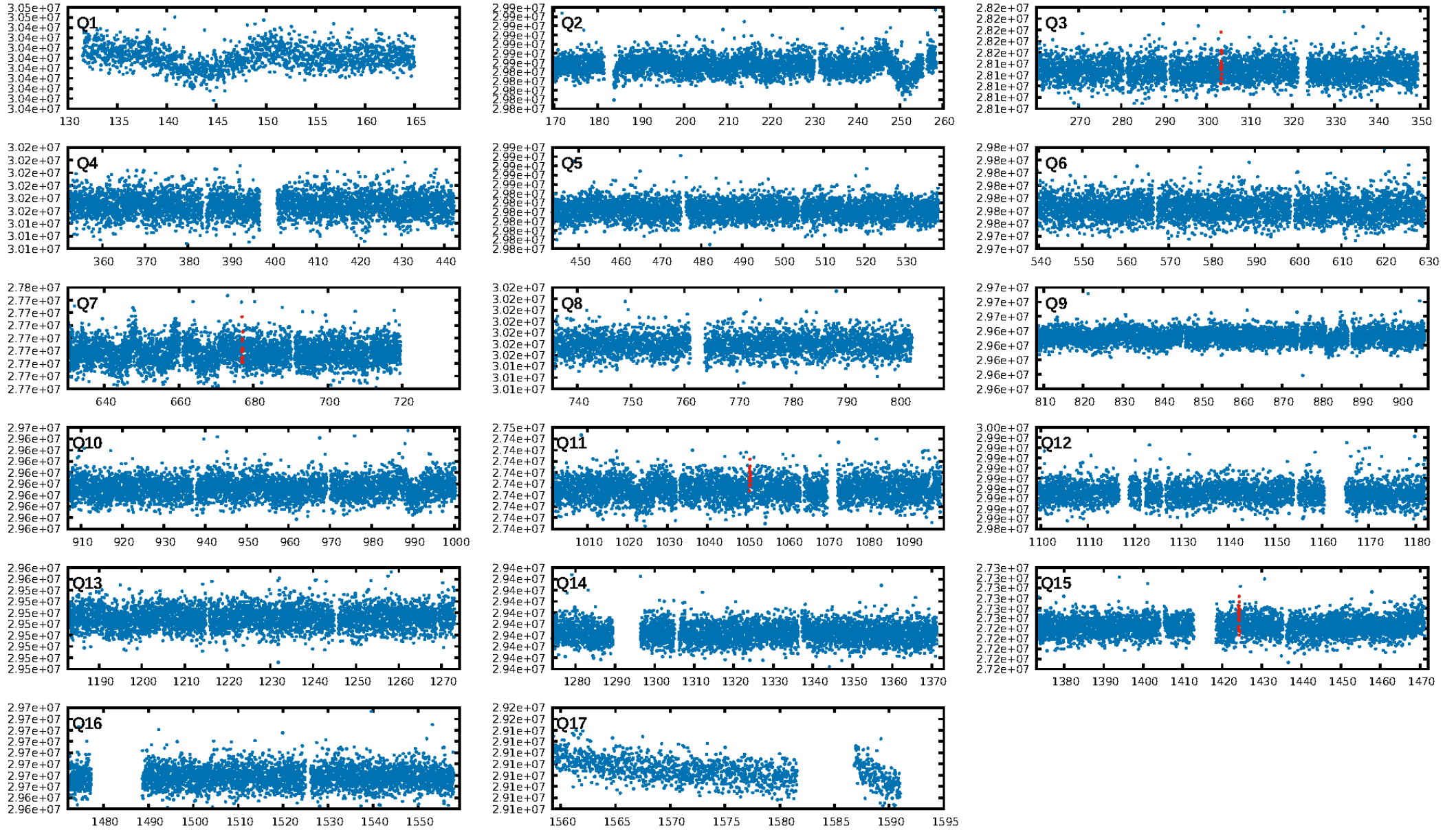
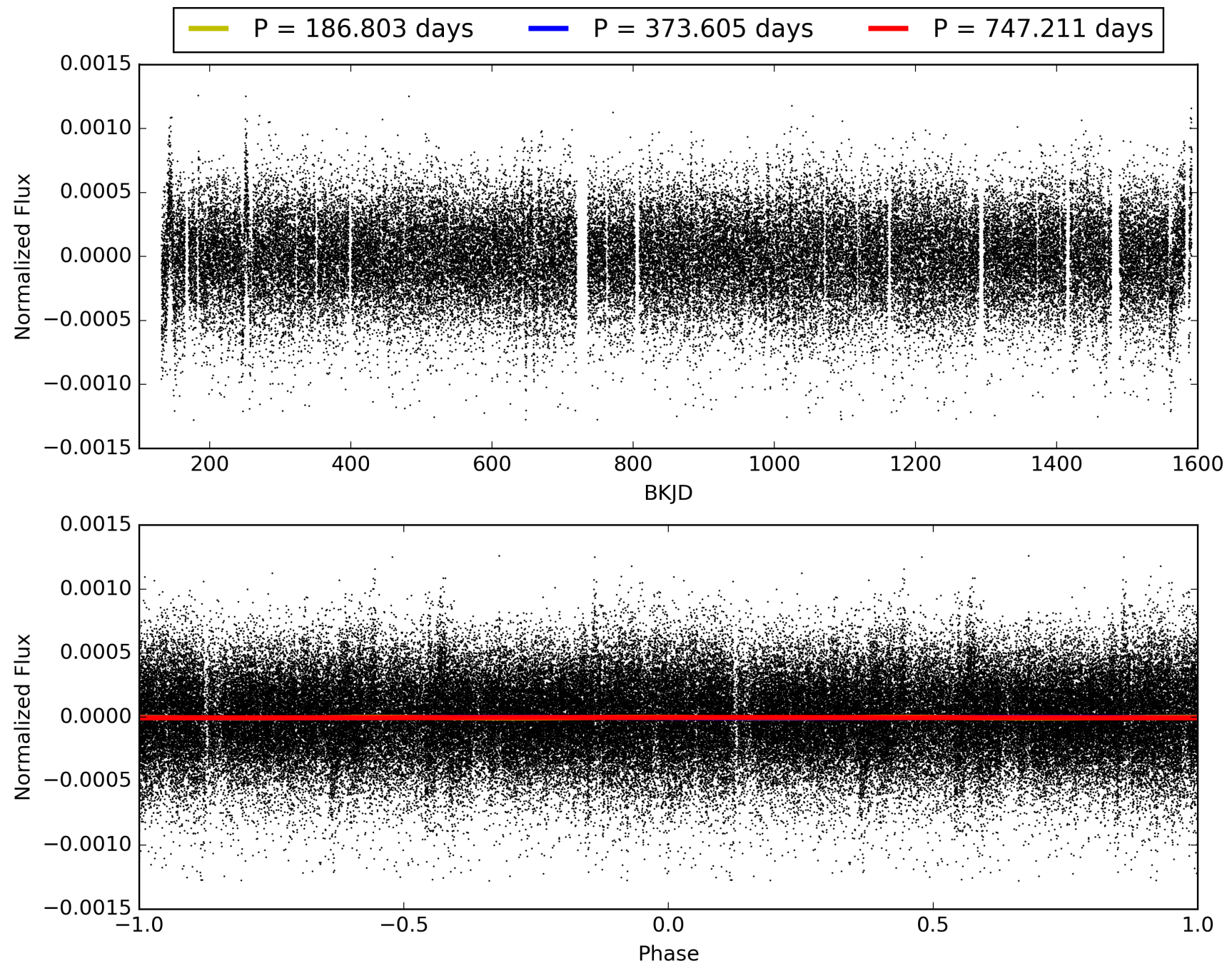


TCE 010525564-01, PDC Light Curves

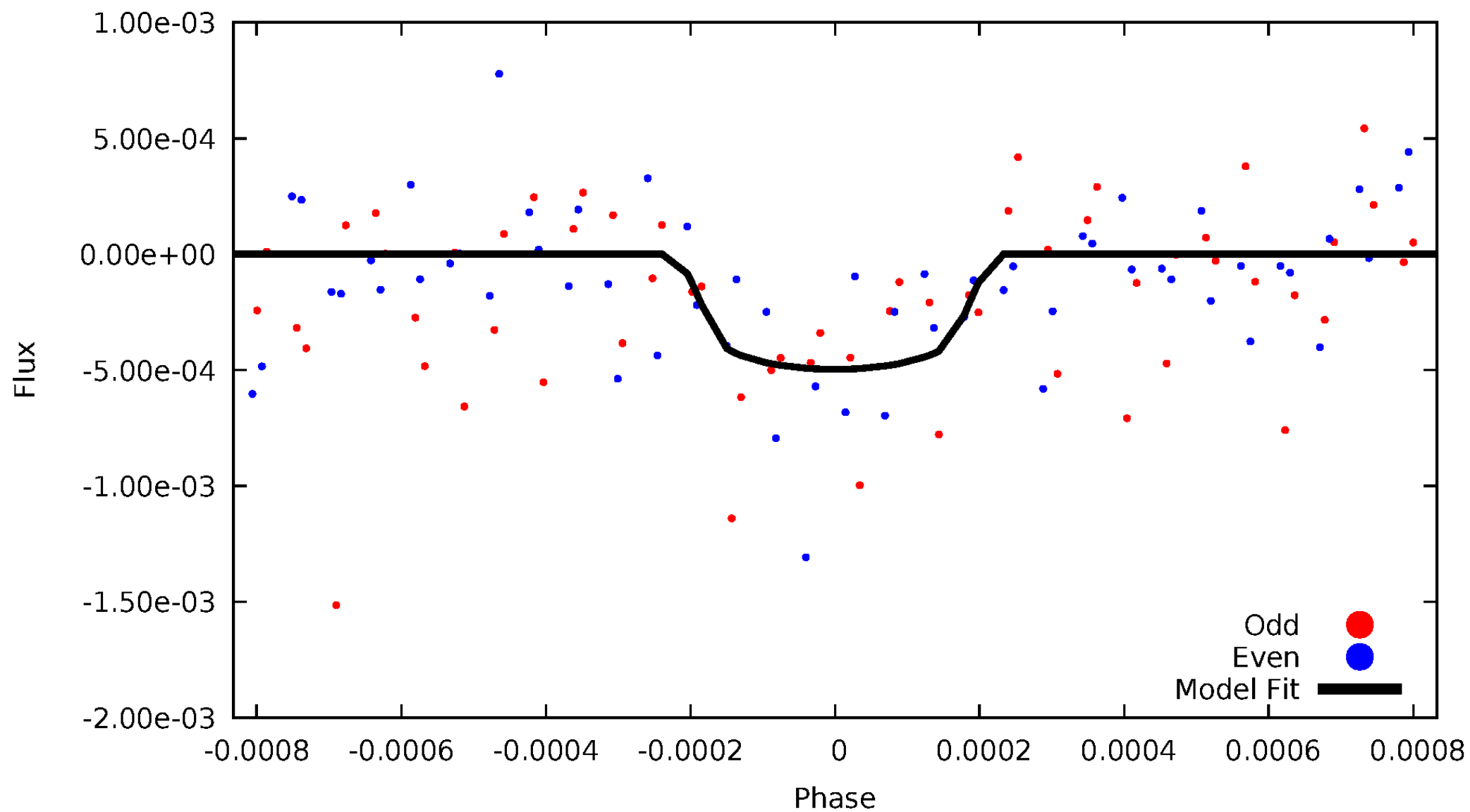


TCE 010525564-01



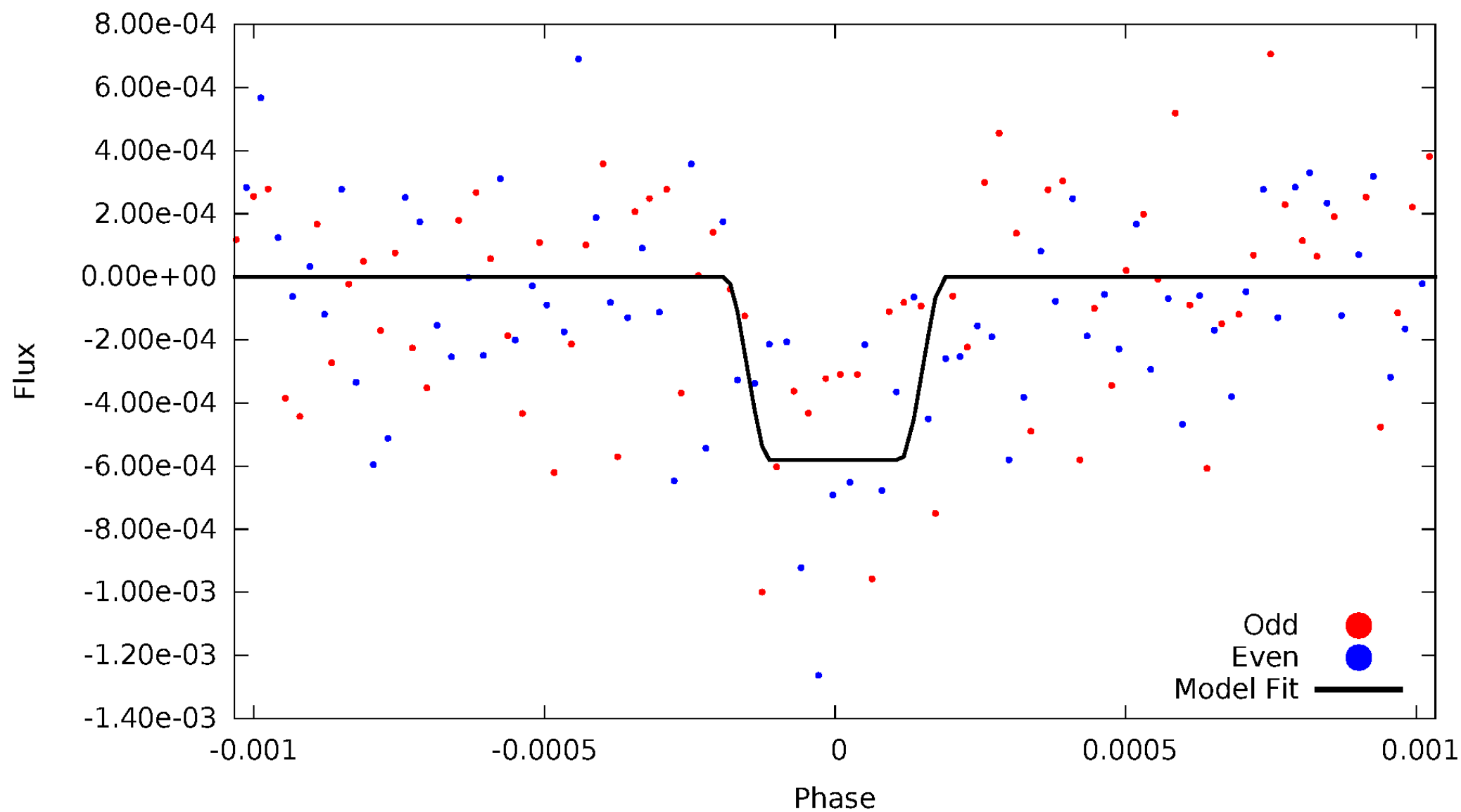
DV Odd/Even

TCE 010525564-01

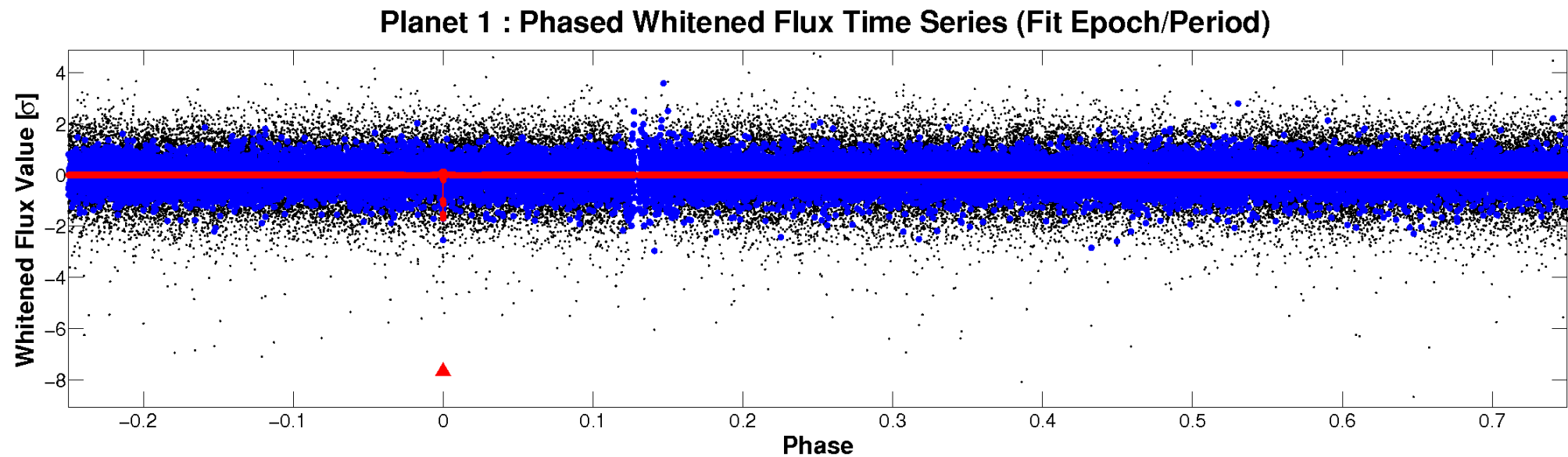
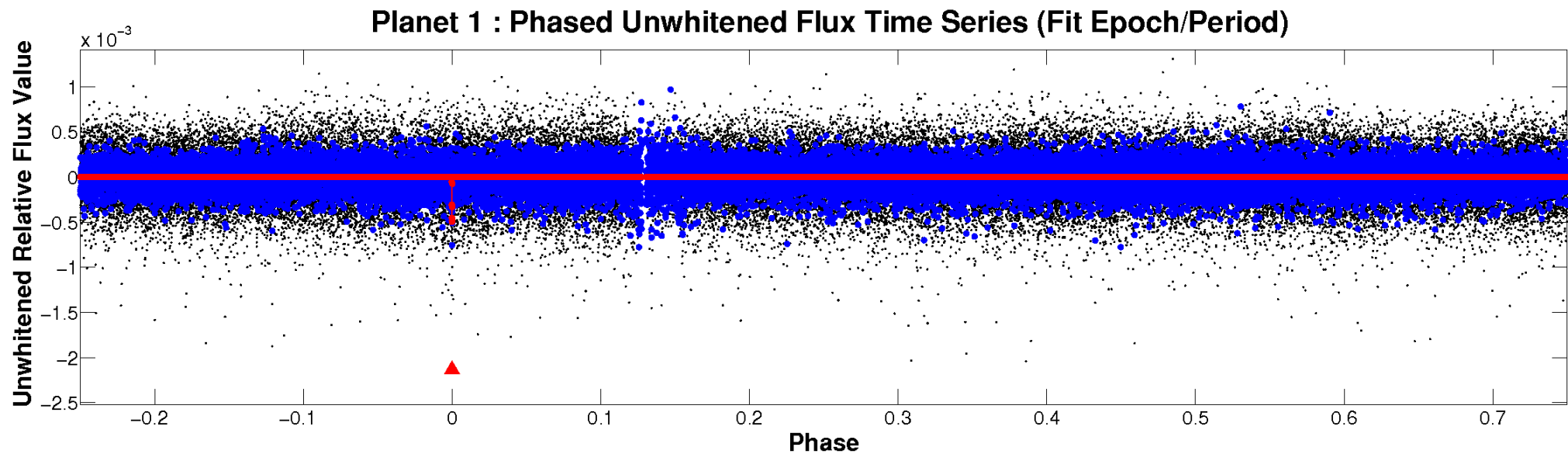


ALT Odd/Even

TCE 010525564-01

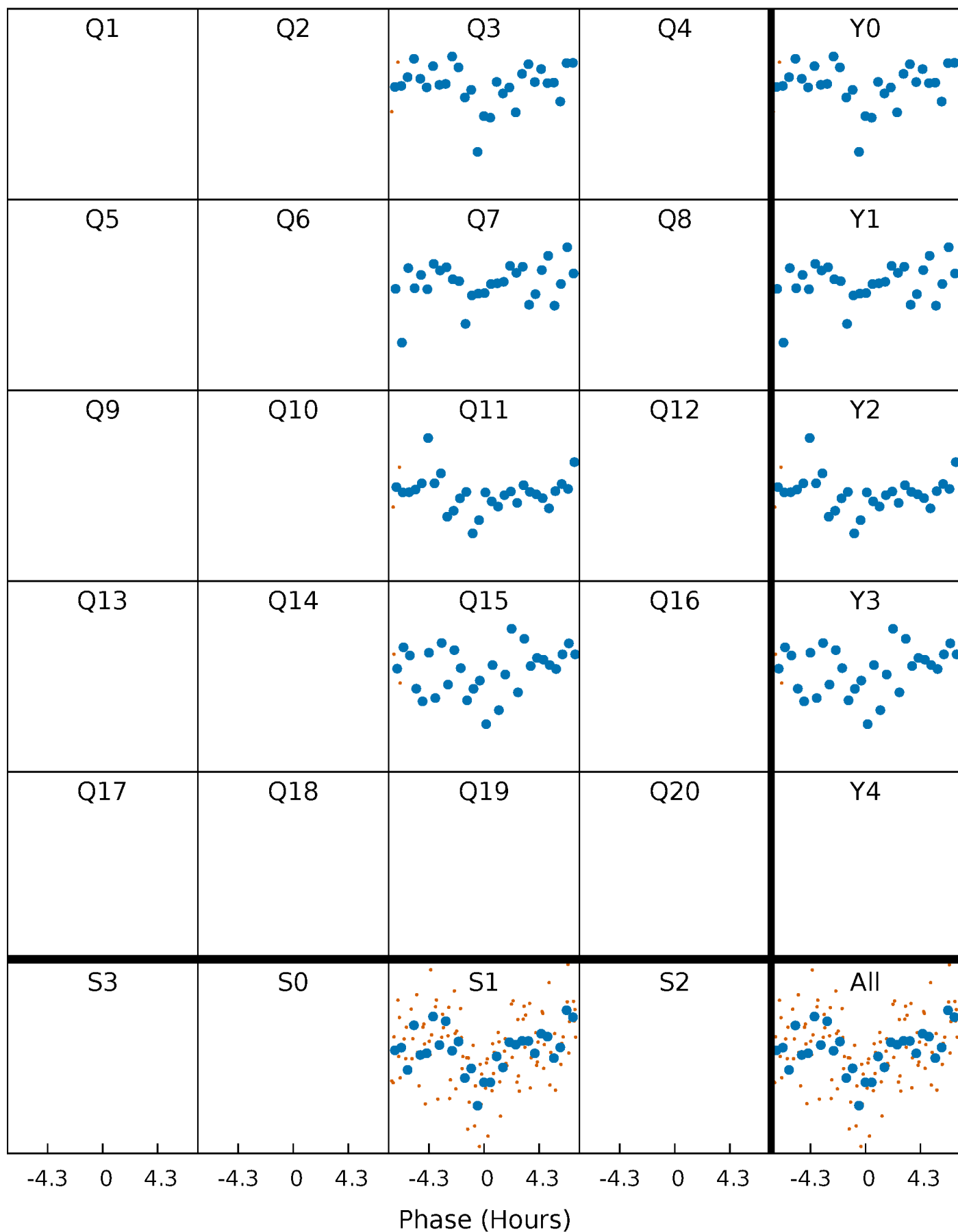


Non-Whitened Vs. Whitened Light Curve



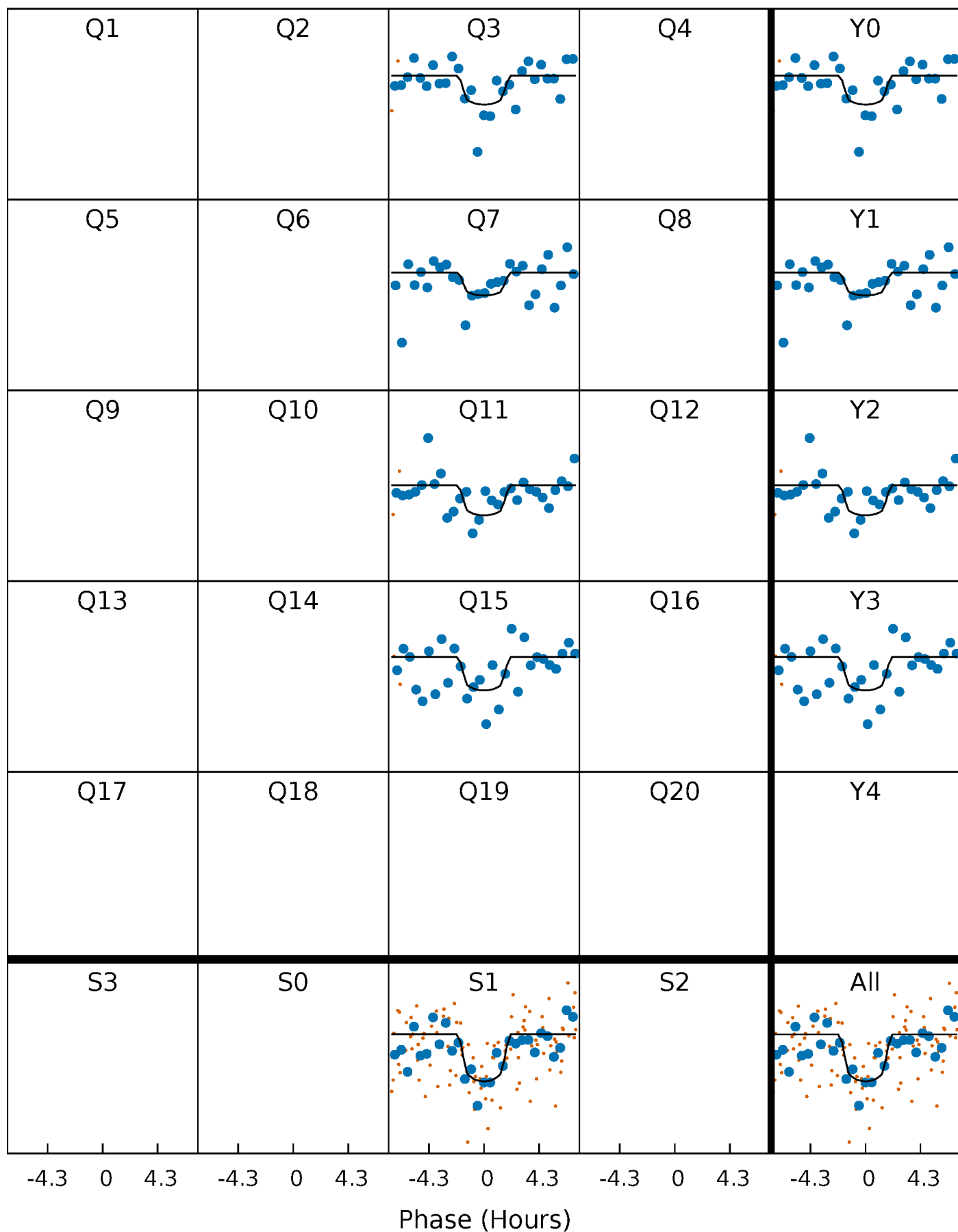
PDC Quarter-Phased Transit Curves

TCE 010525564-01 P=373.605391 Days $T_0=303.434713$ (BKJD)



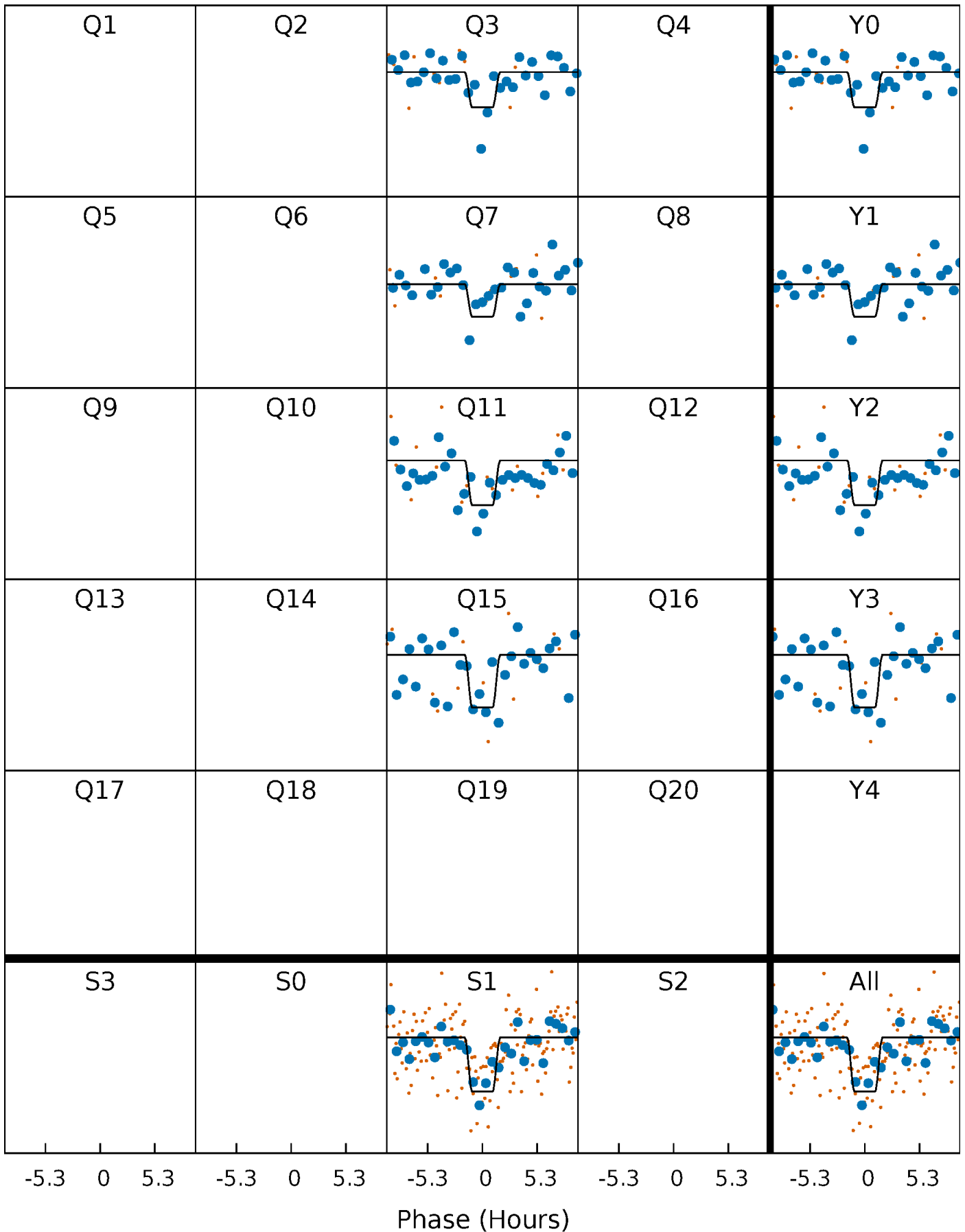
DV Quarter-Phased Transit Curves

TCE 010525564-01 P=373.605391 Days $T_0=303.434713$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

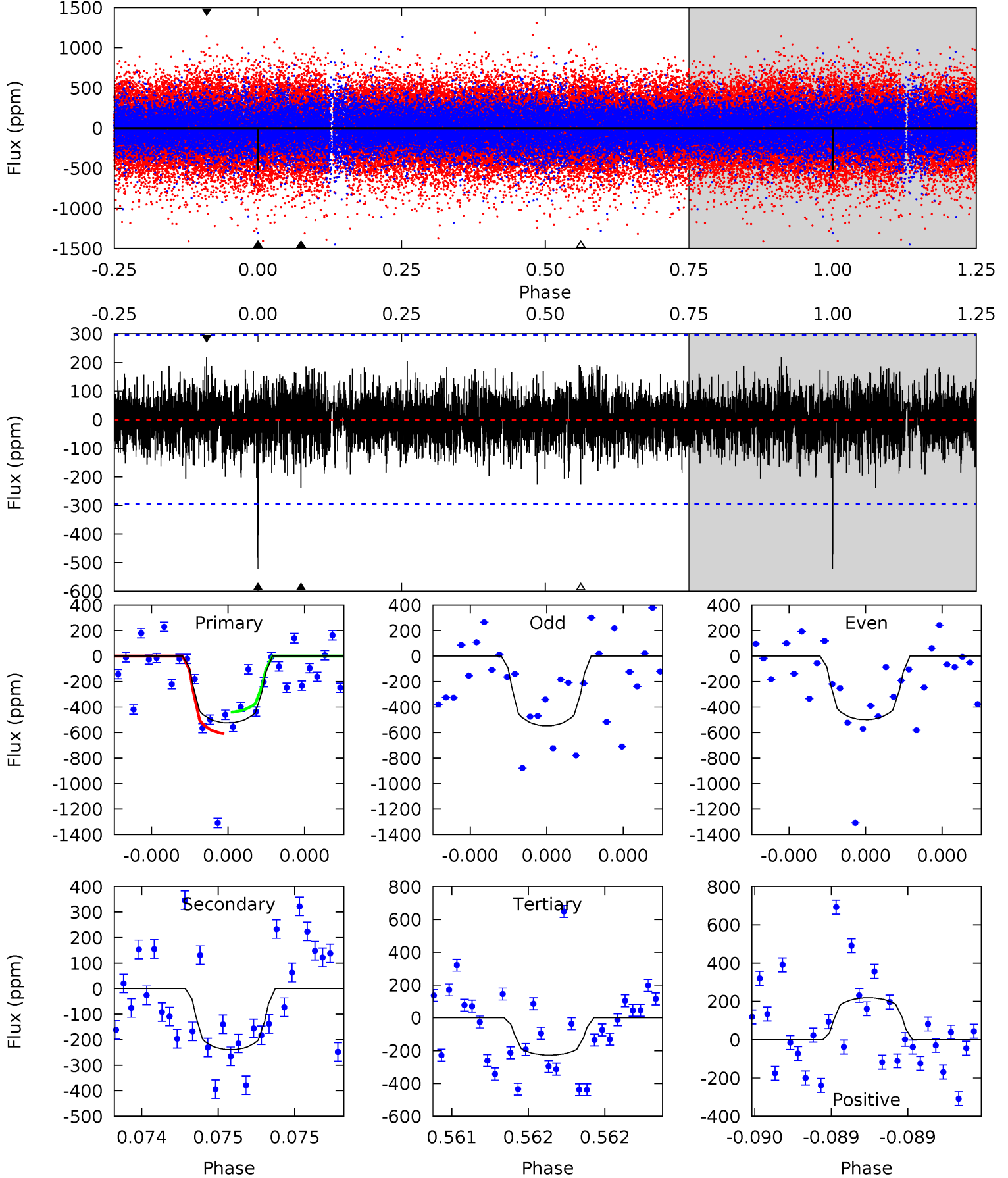
TCE 010525564-01 P=373.603189 Days $T_0=303.430344$ (BKJD)



DV Model-Shift Uniqueness Test

010525564-01, P = 373.605391 Days, E = 303.434713 Days

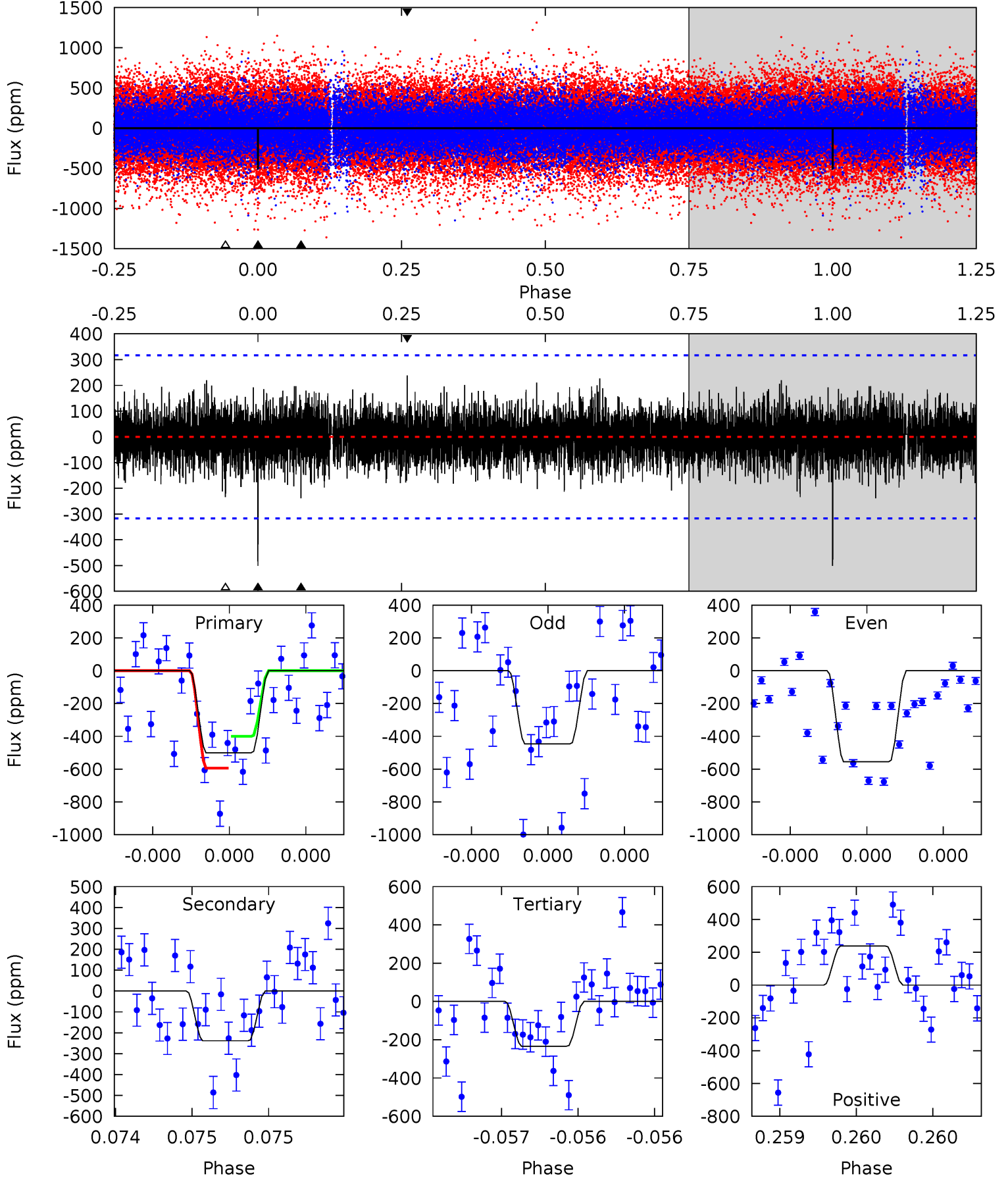
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.92	4.54	4.31	4.16	5.61	3.54	1.14	5.61	5.76	0.23	0.37	0.46	0.96	0.30	1.60



Alt Model-Shift Uniqueness Test

010525564-01, P = 373.603189 Days, E = 303.430344 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.88	4.24	4.15	4.22	5.63	3.56	1.09	4.73	4.66	0.09	0.02	0.99	1.00	0.32	1.72



Stellar Parameters For KIC 010525564

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5866^{+158}_{-176}	$4.475^{+0.065}_{-0.208}$	$-0.100^{+0.300}_{-0.300}$	$0.947^{+0.277}_{-0.119}$	$0.977^{+0.128}_{-0.117}$	$1.619^{+0.465}_{-0.867}$
	+3%/-3%	+1%/-5%	+300%/-300%	+29%/-13%	+13%/-12%	+29%/-54%
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 010525564-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-239 ± 53	$5.33^{+4.93}_{-3.71}$	357^{+25}_{-16}	3680^{+2246}_{-667}	4642^{+46411}_{-3455}
Alt.	-239 ± 56	$5.31^{+5.21}_{-3.48}$	357^{+25}_{-17}	3677^{+1938}_{-673}	4653^{+34445}_{-3507}

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

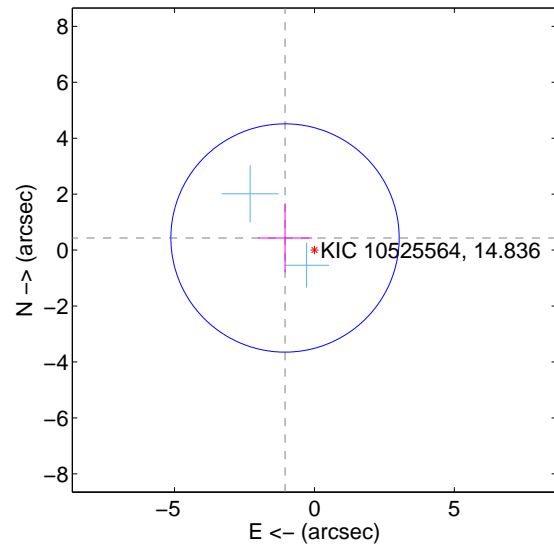
Supplemental centroid analysis for 010525564-01. Kepler magnitude: 14.84. Transit SNR 7.68

There are 2 quarters with good PRF difference image offsets

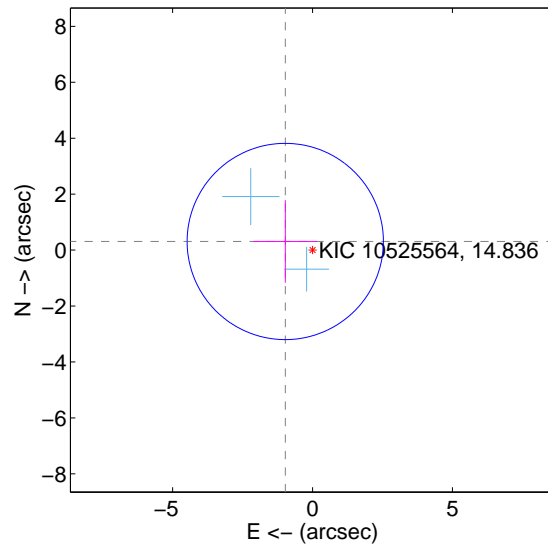
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.137 ± 1.360	0.84	1.051 ± 0.969	0.433 ± 1.224
PRF-fit source offset from KIC position	1.022 ± 1.169	0.87	0.975 ± 1.134	0.308 ± 1.475
photometric centroid source offset	1.13 ± 2.03	0.56	0.94 ± 2.04	-0.63 ± 1.99

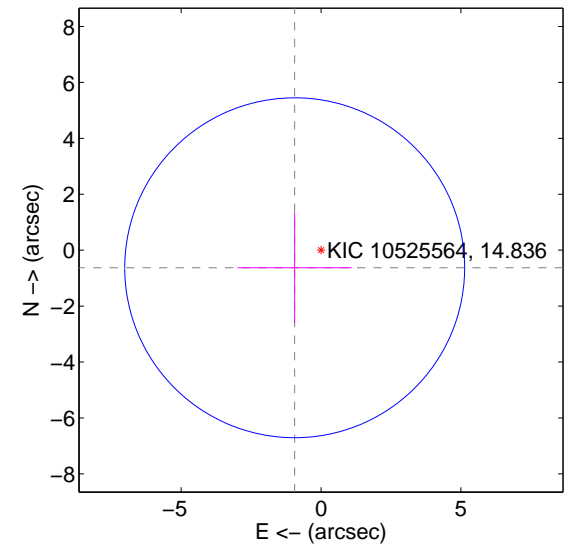
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

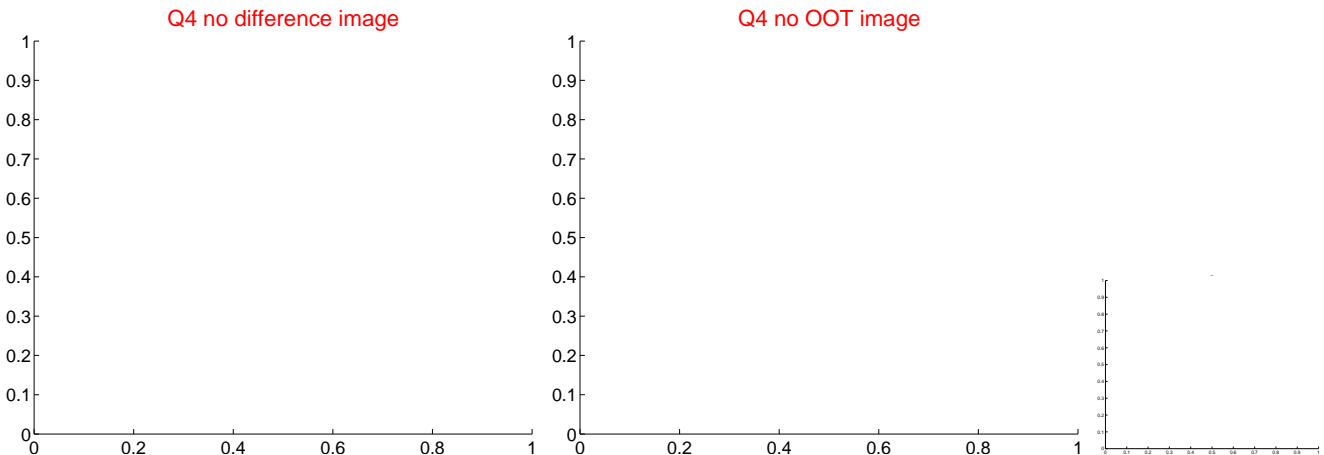
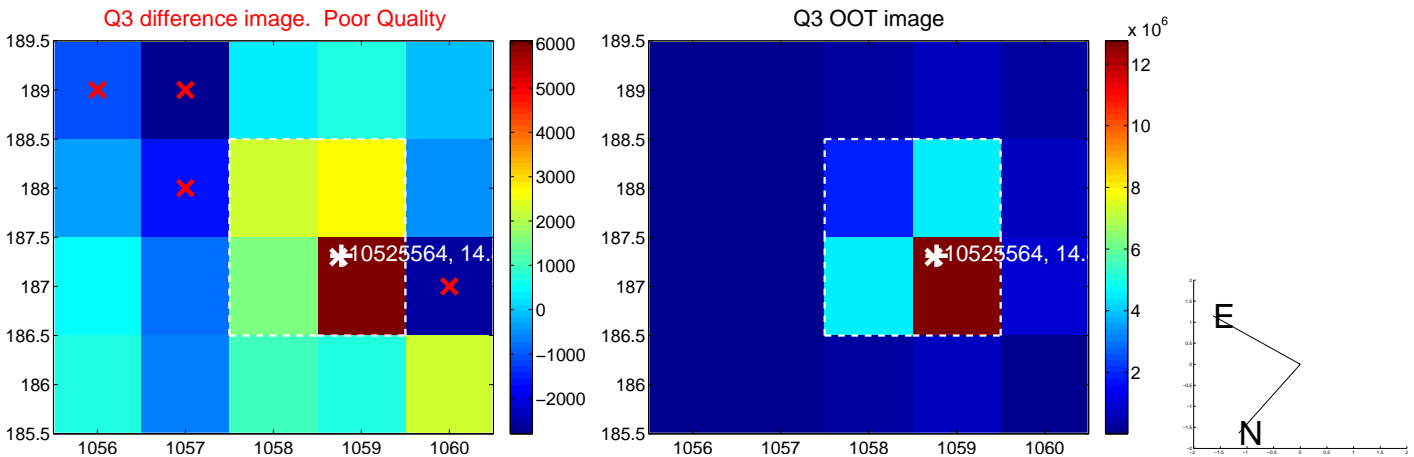
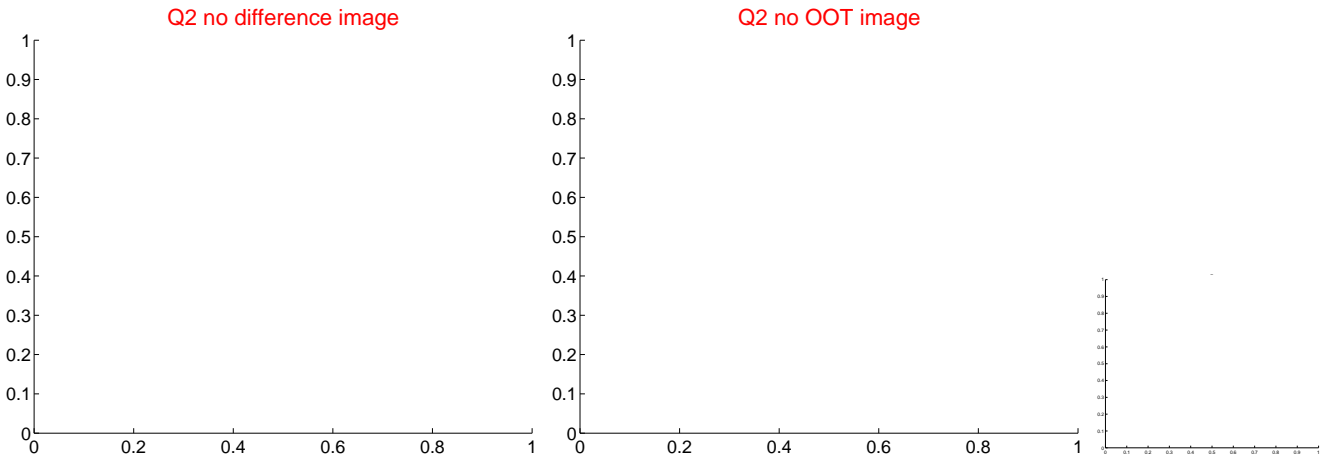
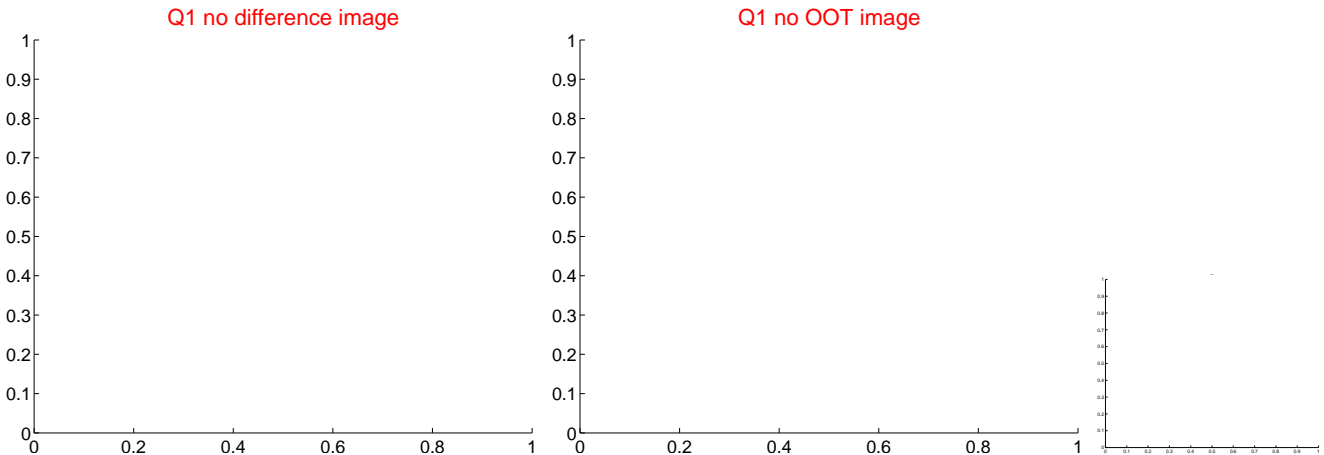


offset from photometric centroids

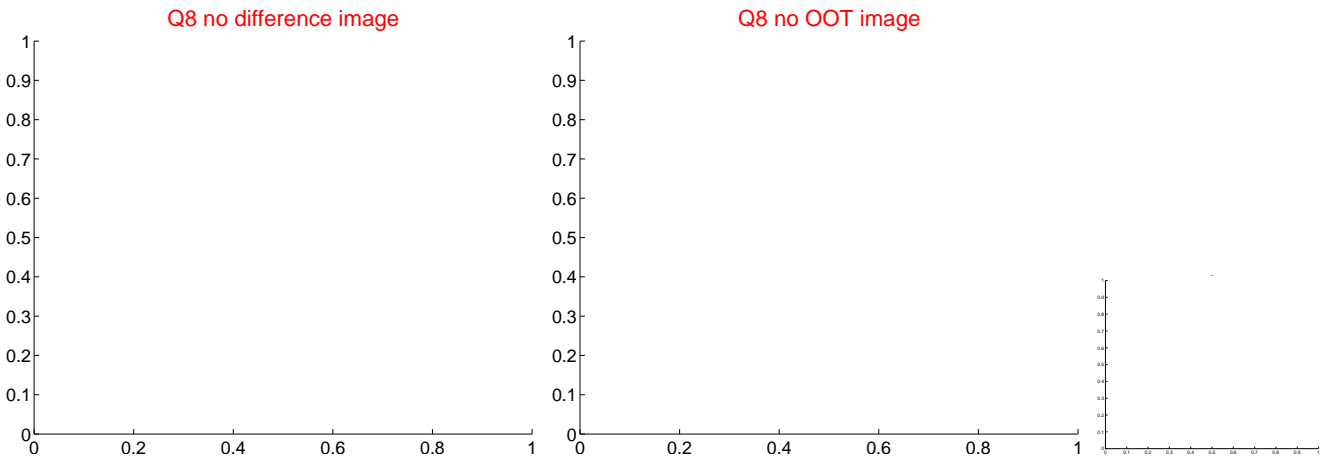
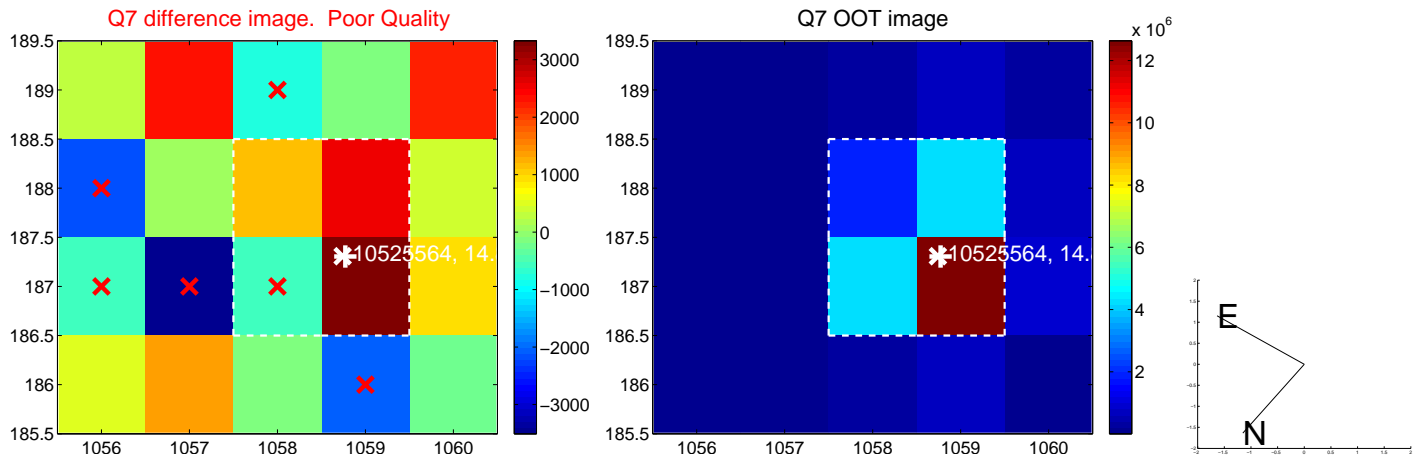
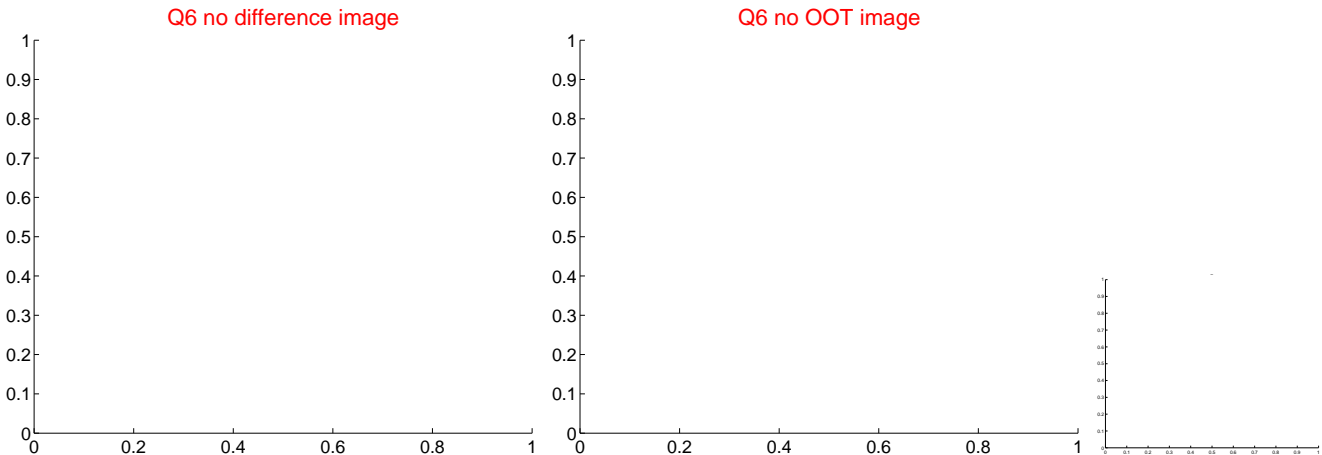
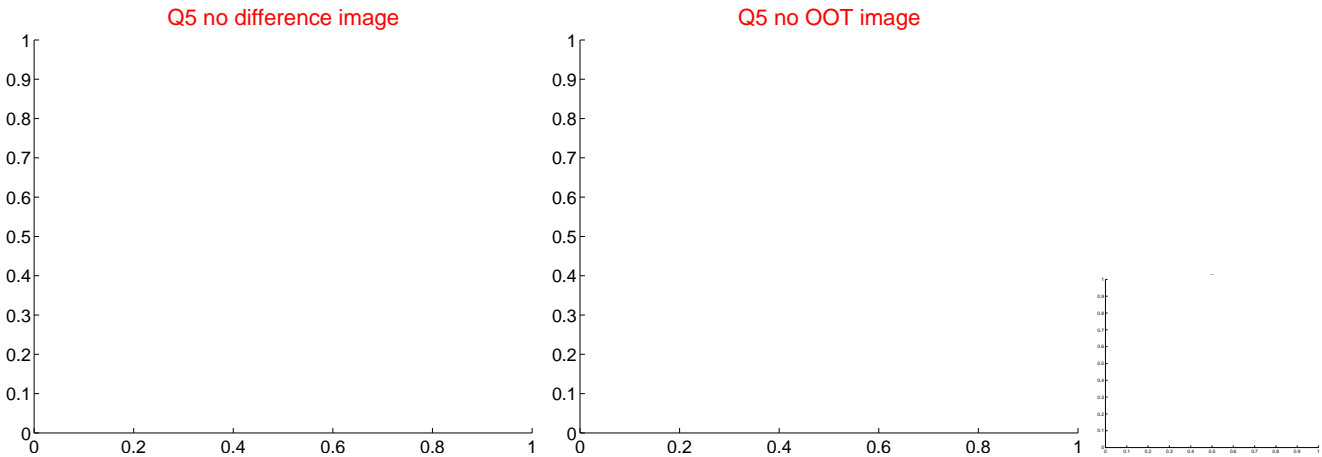


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

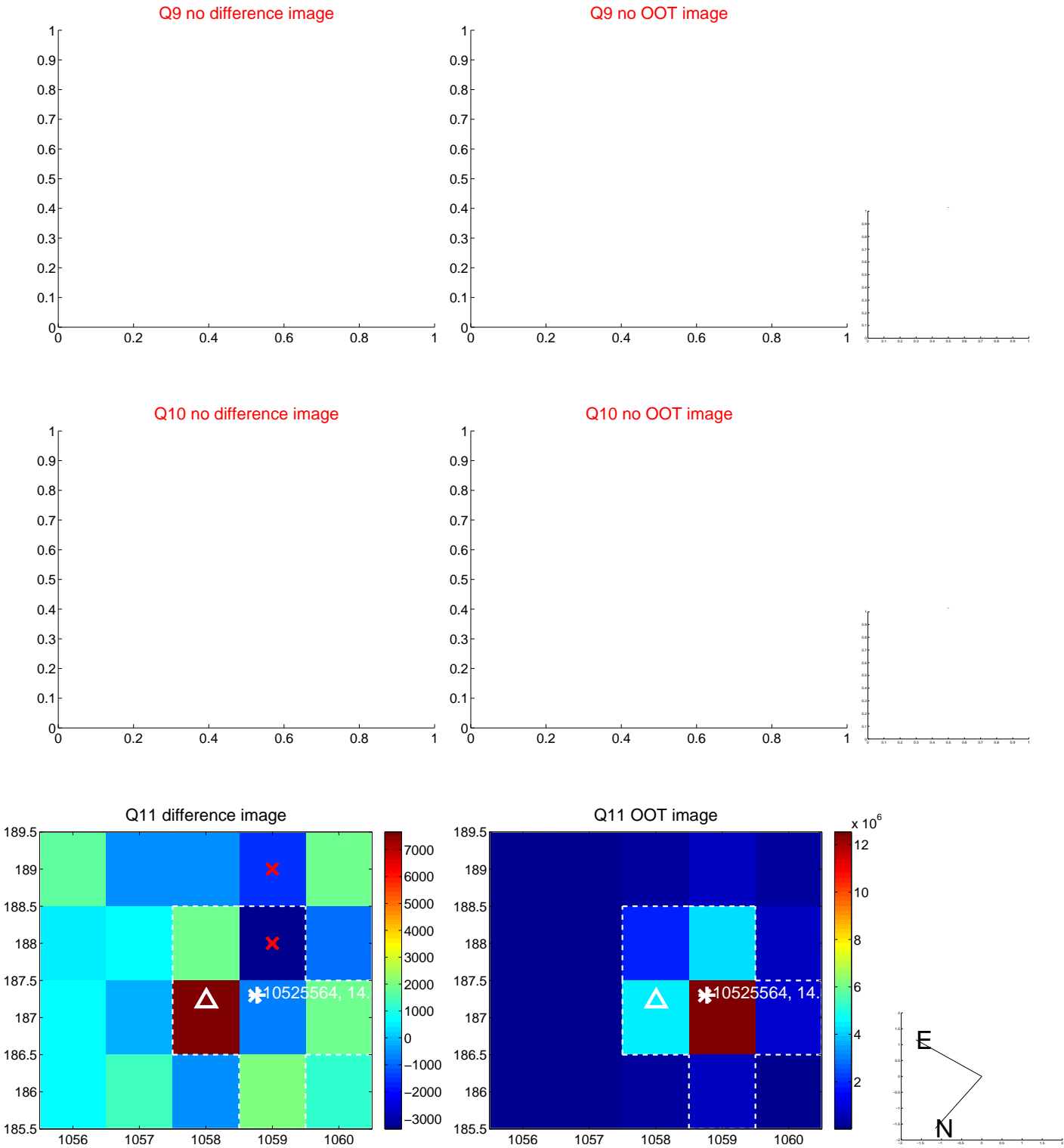
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



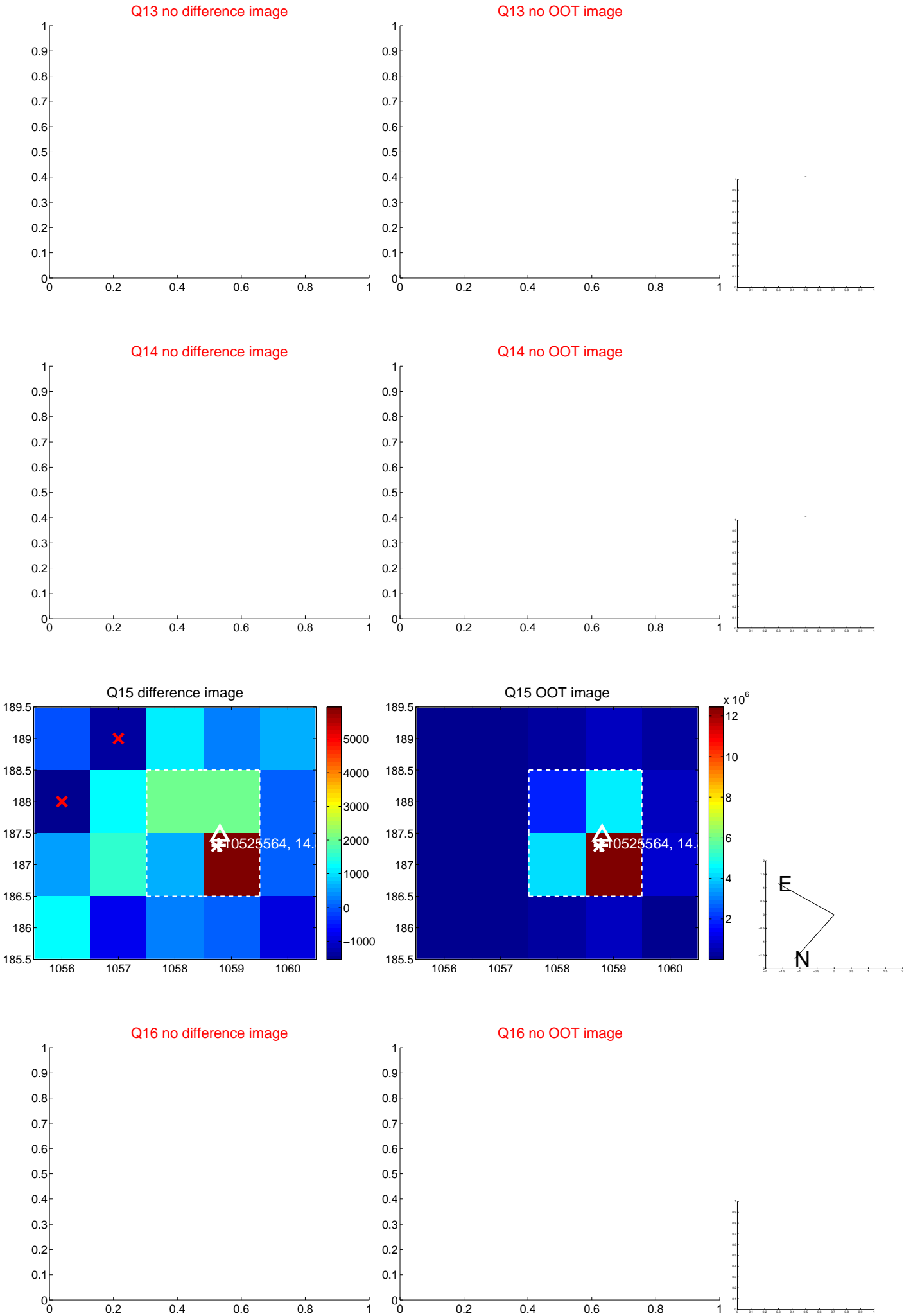
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



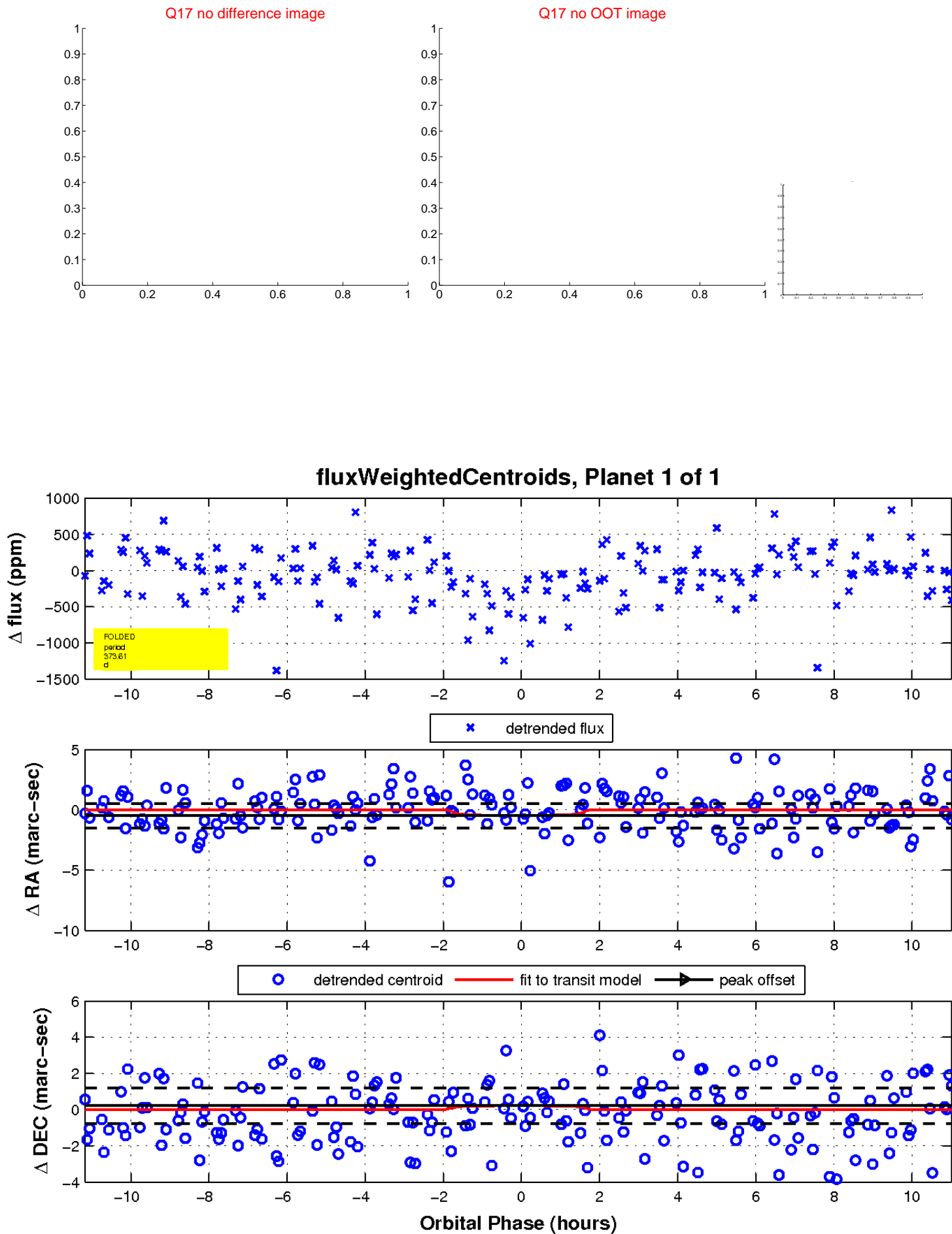
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

