

KIC 01135119

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
011135119-01	OBS	8042.01	383.935664	299.292303	648.8	2.933	7.1	8.1	3.21	5216	9.35	5.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011135119-01	OBS	FP	0.07	1	0	0	0	ALL_TRANS_CHASES—MOD_NONUNIQ_ALT

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

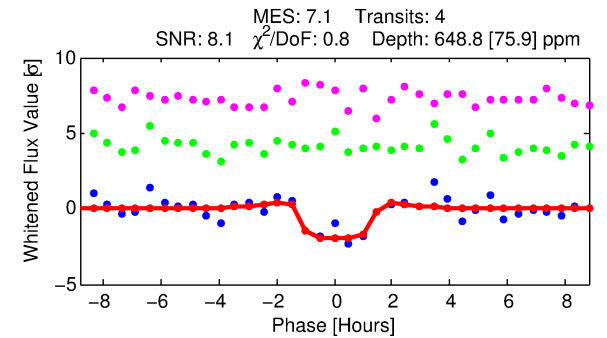
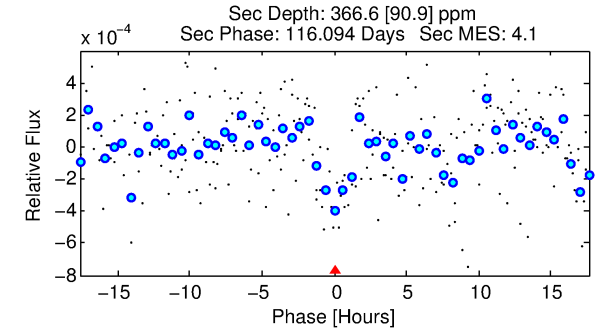
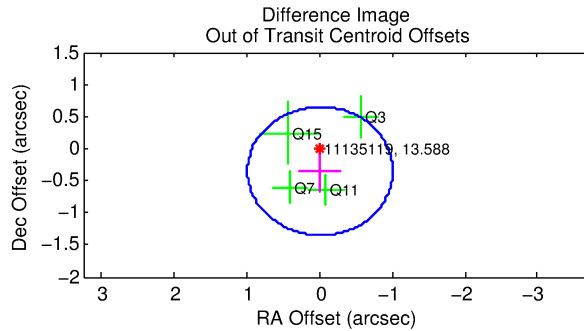
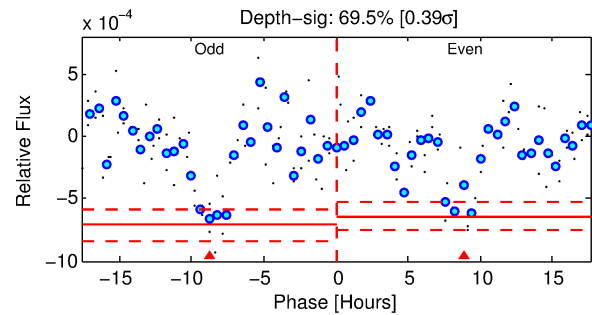
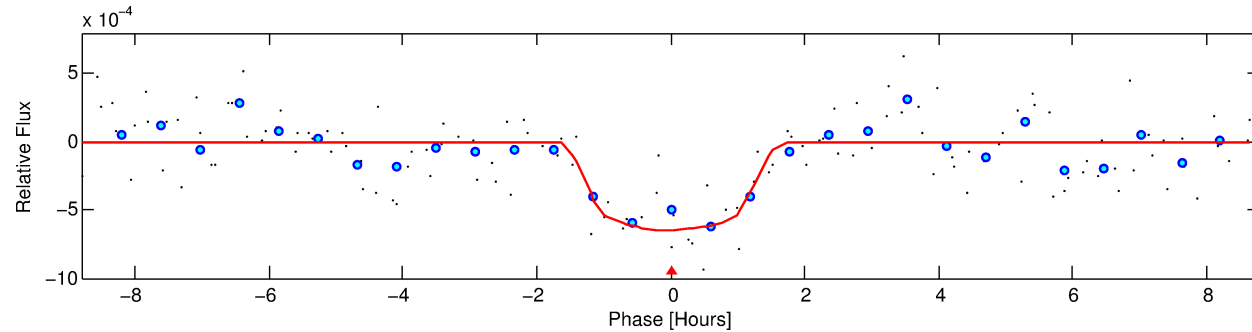
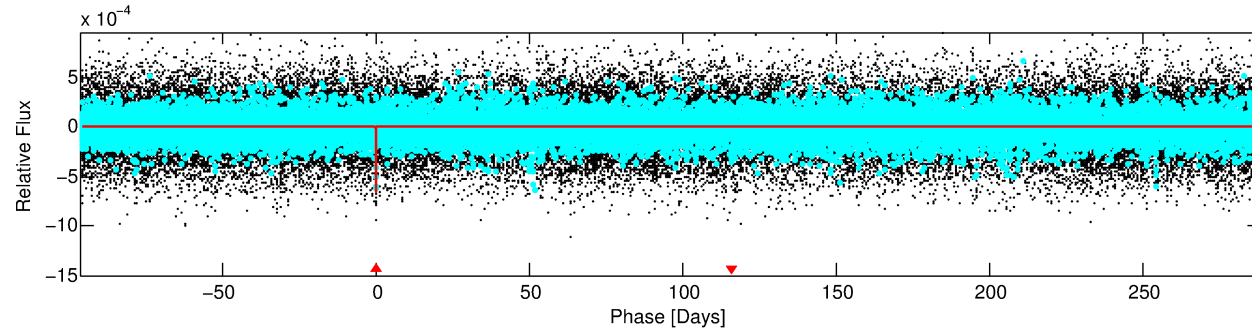
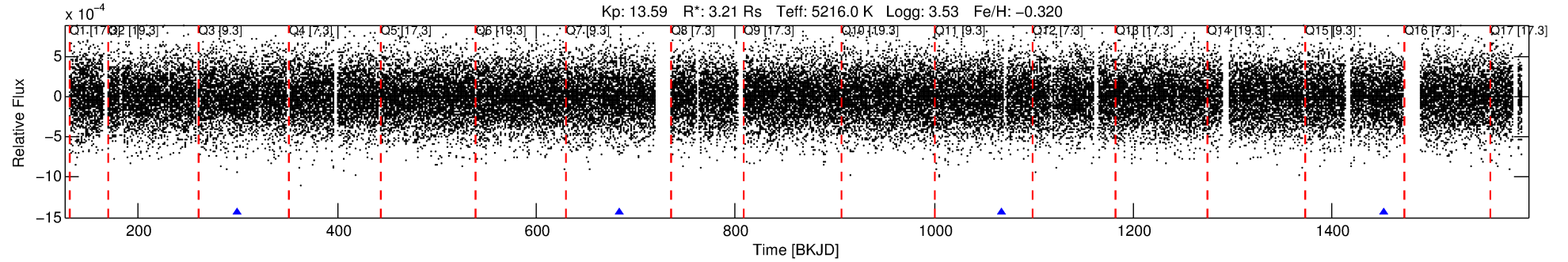
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011135119-01

No Significant Match Found

DV One-Page Summary

KIC: 11135119 Candidate: 1 of 1 Period: 383.936 d



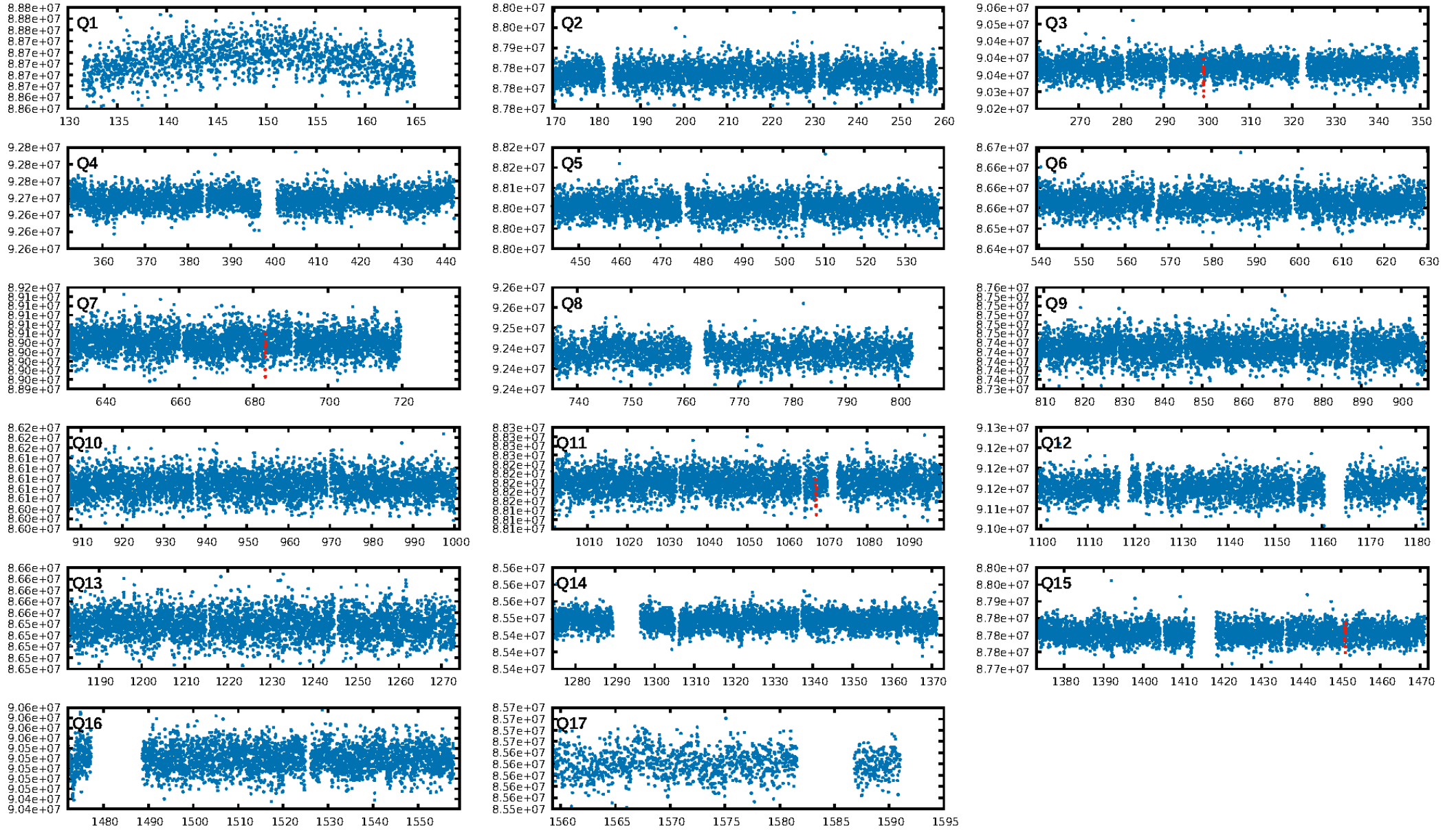
DV Fit Results:

Period = 383.93566 [0.00301] d
Epoch = 299.2923 [0.0060] BKJD
Rp/R* = 0.0267 [0.0208]
a/R* = 588.03 [1863.60]
b = 0.84 [1.12]
Seff = 5.44 [7.71]
Teq = 389 [138] K
Rp = 9.35 [9.41] Re
a = 1.1201 [0.8925] AU
Ag = 2895.34 [6129.38] [0.47 σ]
Teffp = 4416 [1745] K [2.30 σ]

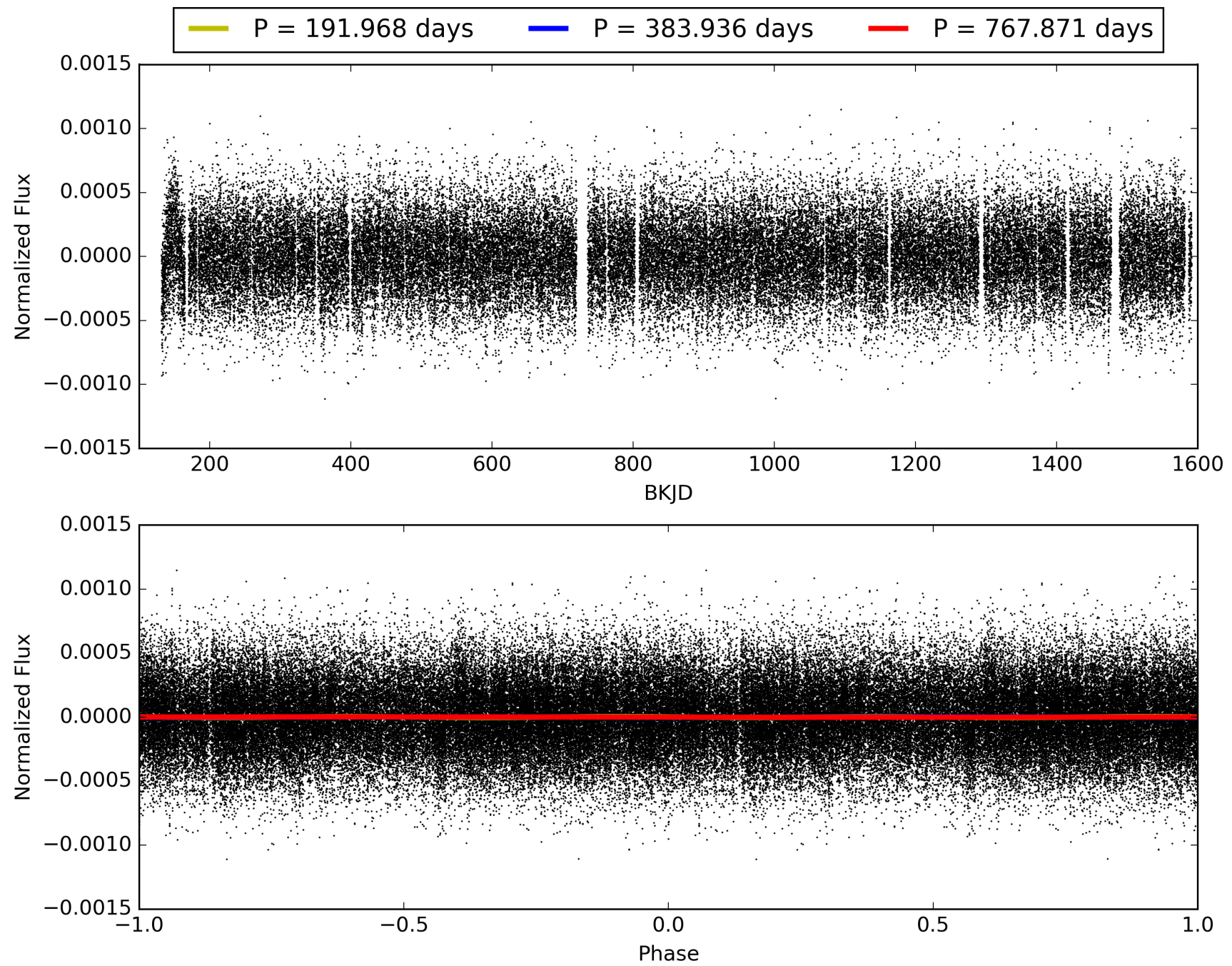
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 84.5%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: 7.37e-12
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -4.161
Centroid-sig: 36.9%
Centroid-so: 0.641 arcsec [1.07 σ]
OotOffset-rm: 0.351 arcsec [1.05 σ]
KicOffset-rm: 0.446 arcsec [1.37 σ]
OotOffset-st: 0/4/0/0 [4]
KicOffset-st: 0/4/0/0 [4]
DiffImageQuality-fgm: 1.00 [4/4]
DiffImageOverlap-fno: 1.00 [4/4]

TCE 011135119-01, PDC Light Curves

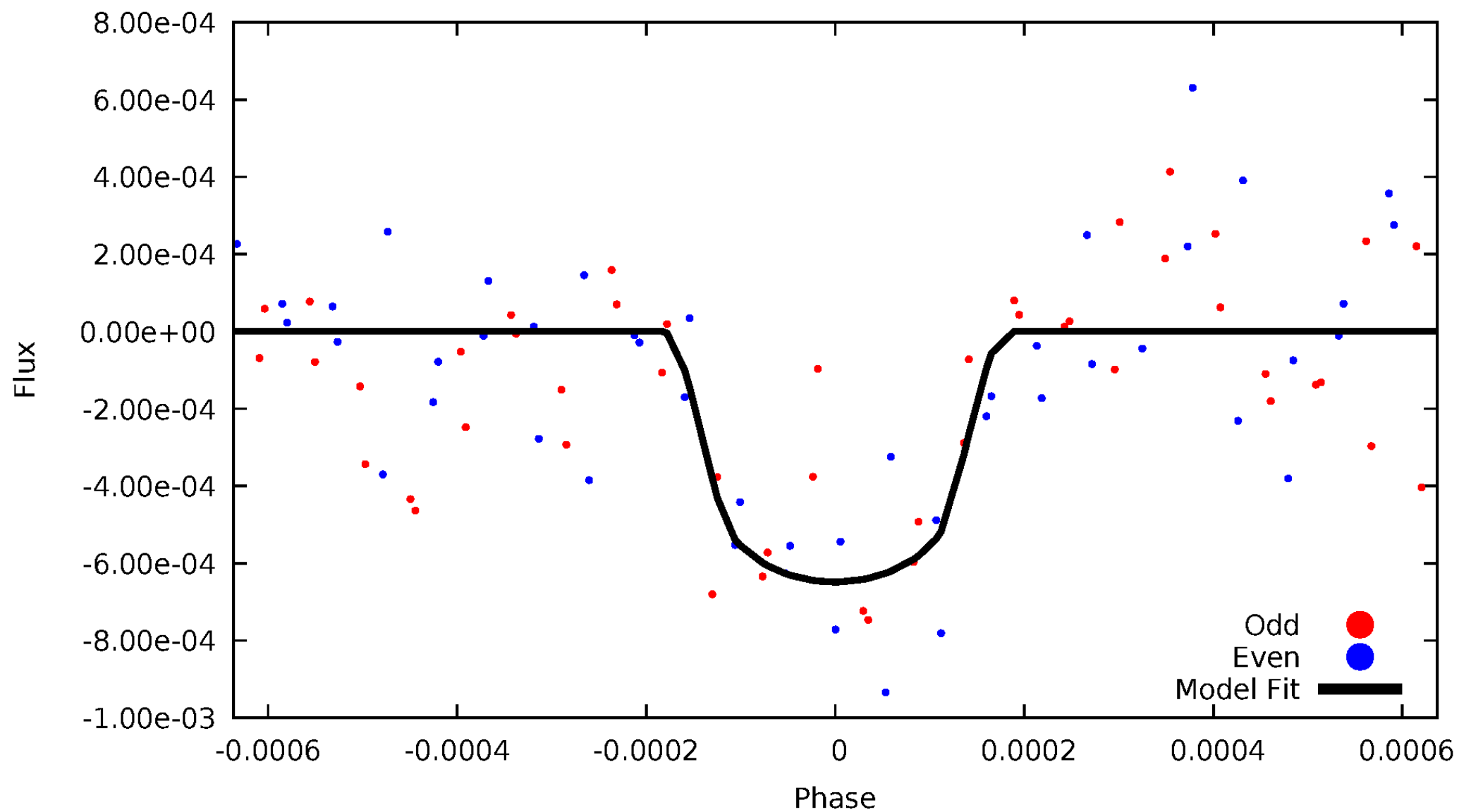


TCE 011135119-01



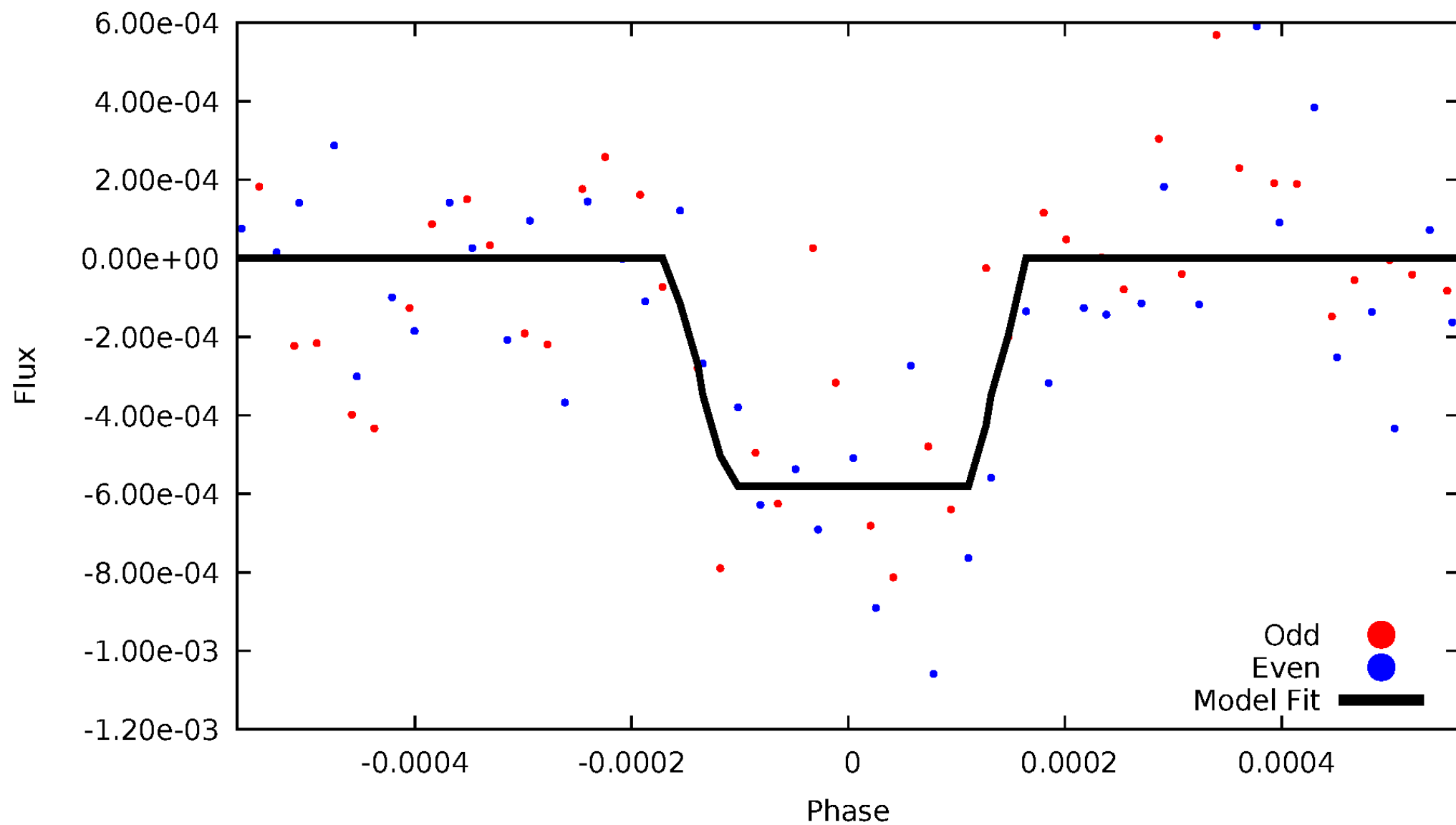
DV Odd/Even

TCE 011135119-01

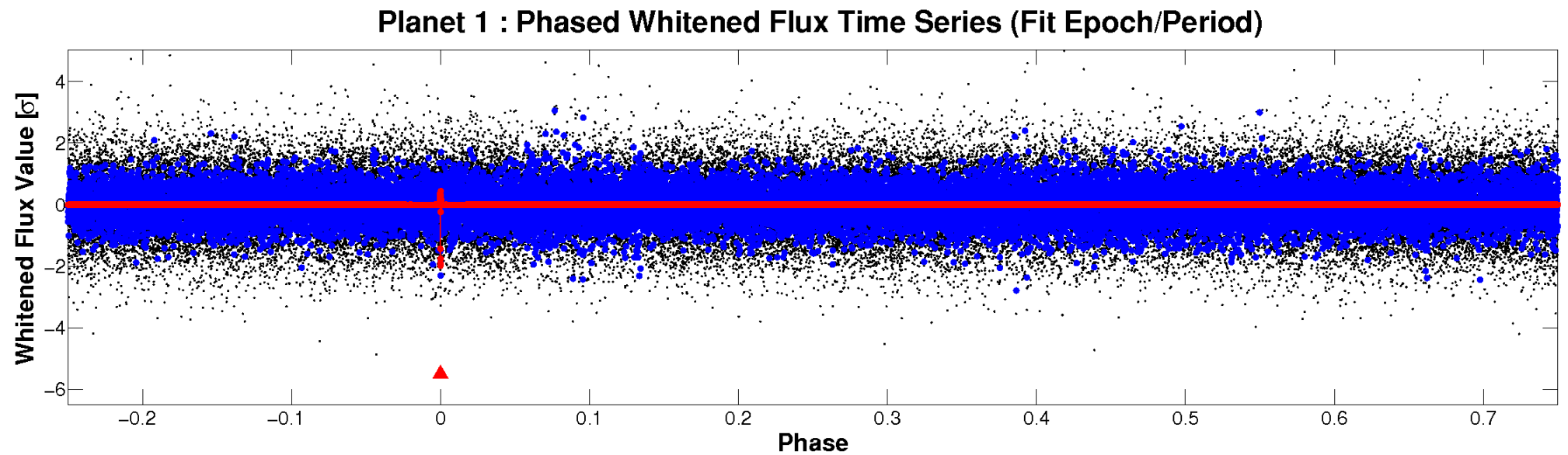
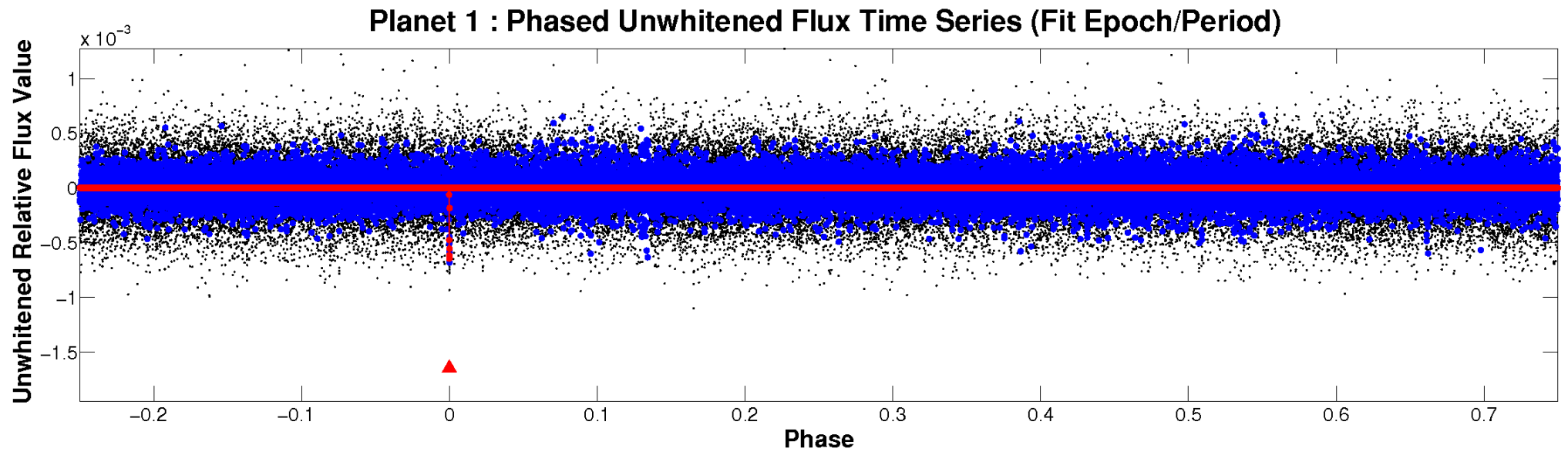


ALT Odd/Even

TCE 011135119-01

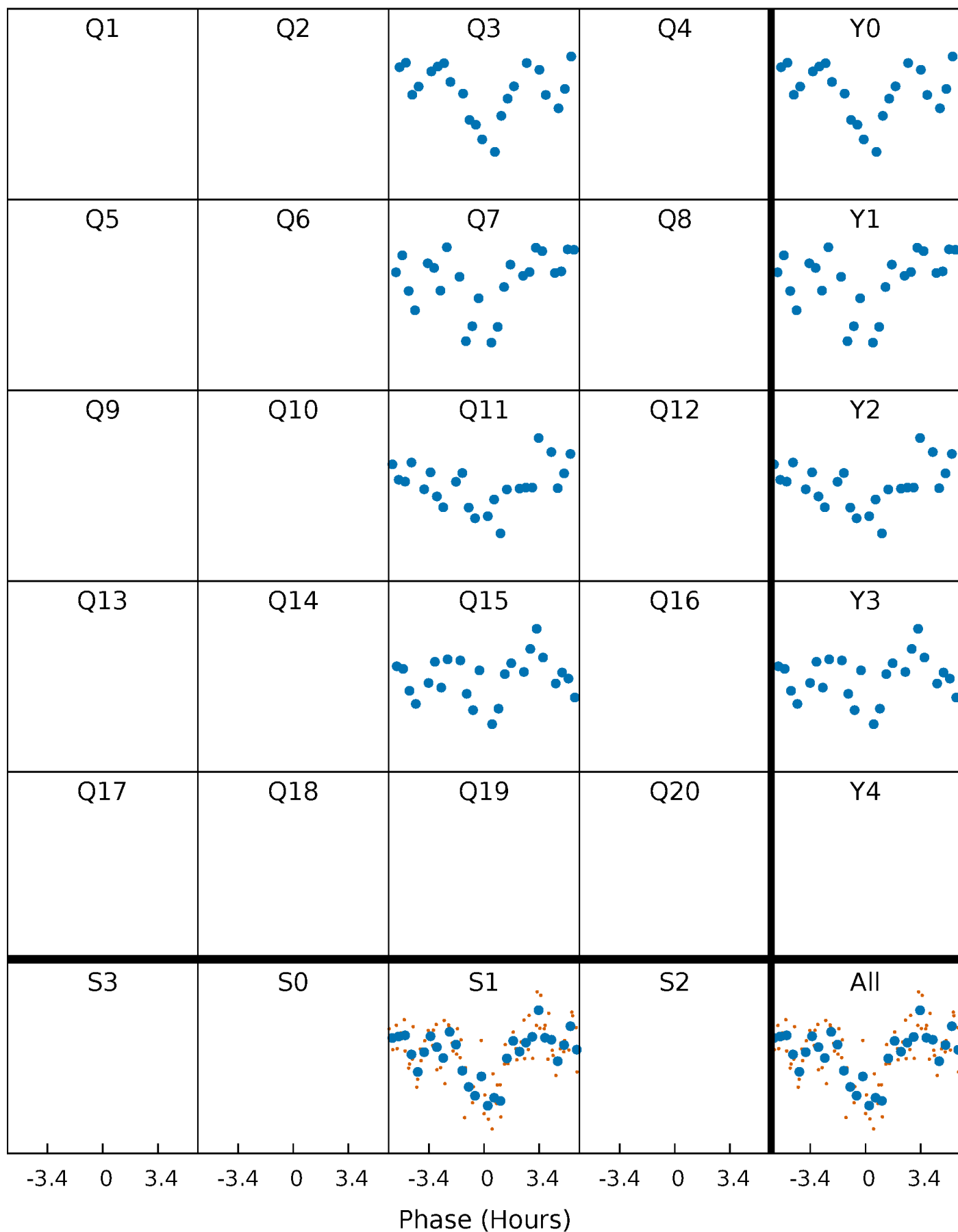


Non-Whitened Vs. Whitened Light Curve



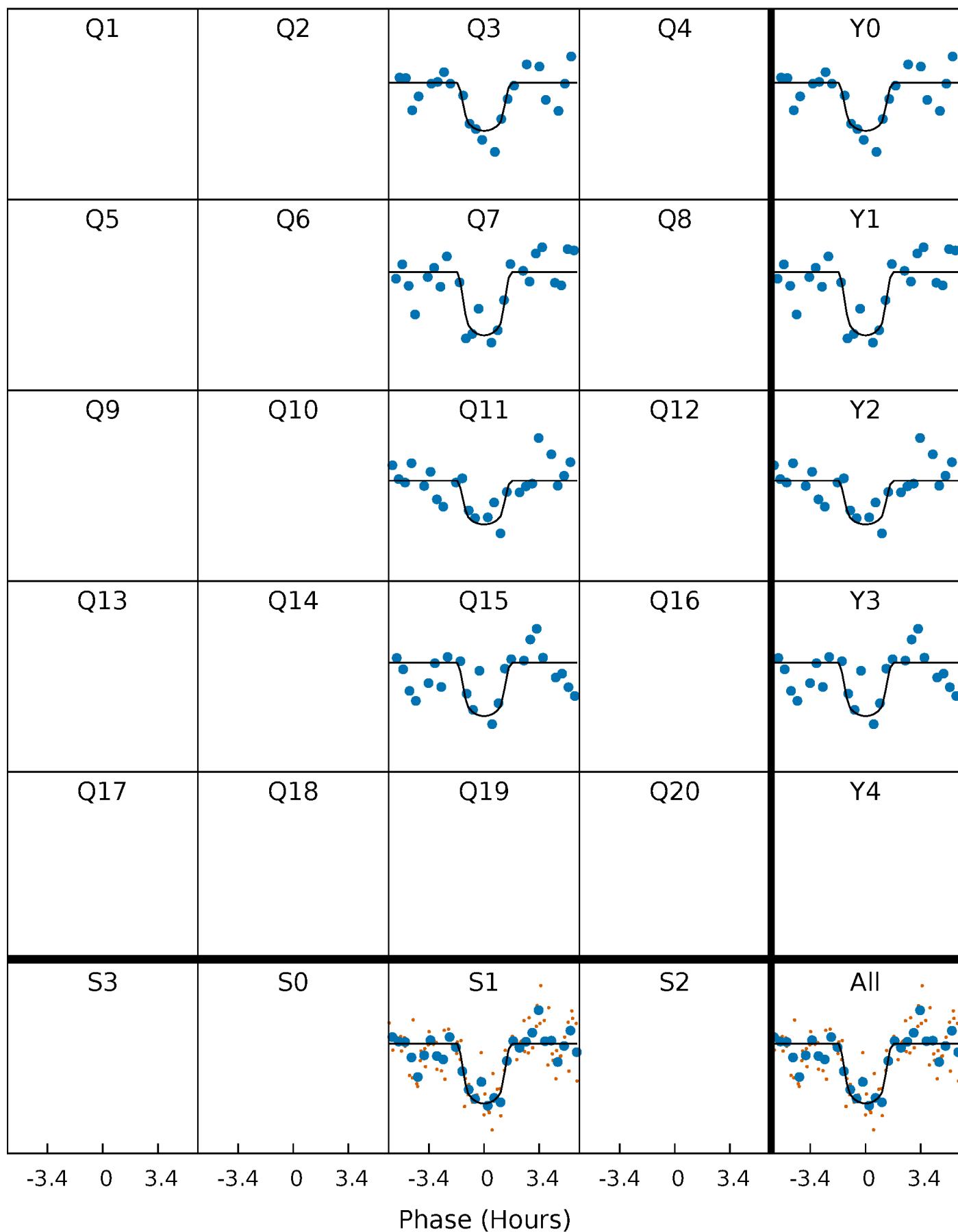
PDC Quarter-Phased Transit Curves

TCE 011135119-01 P=383.935664 Days $T_0=299.292303$ (BKJD)



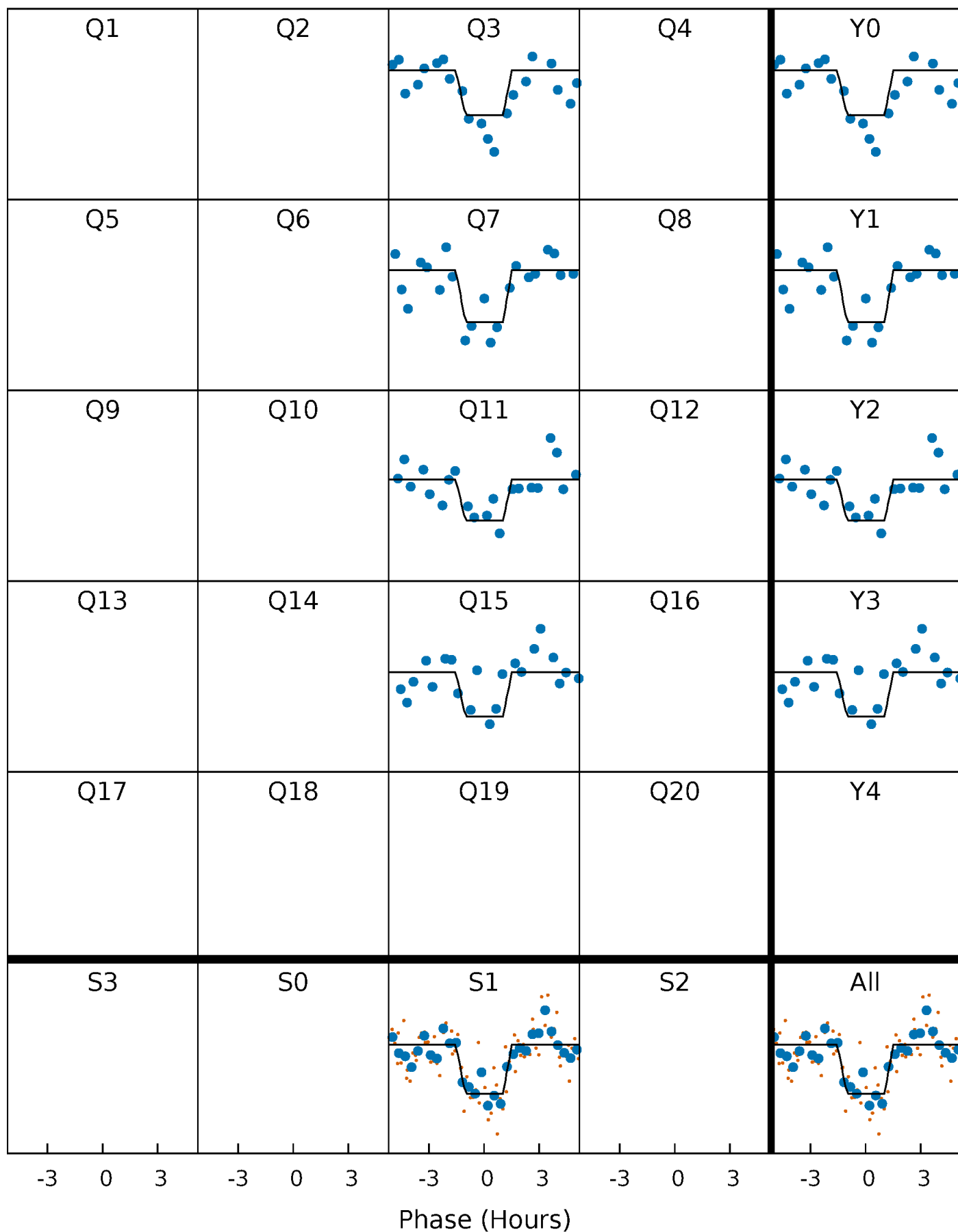
DV Quarter-Phased Transit Curves

TCE 011135119-01 P=383.935664 Days $T_0=299.292303$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

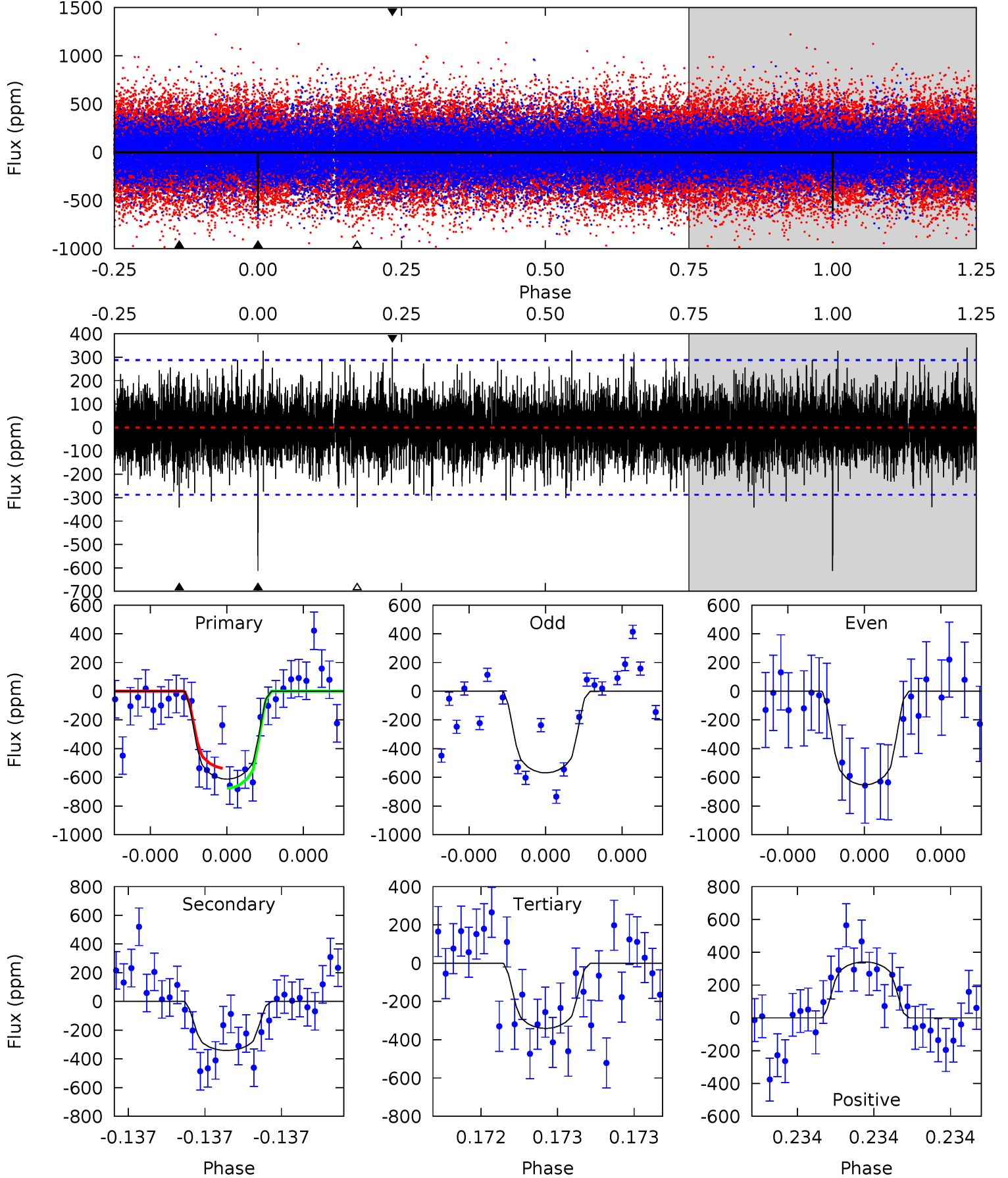
TCE 011135119-01 P=383.940691 Days $T_0=299.282685$ (BKJD)



DV Model-Shift Uniqueness Test

011135119-01, P = 383.935664 Days, E = 299.292303 Days

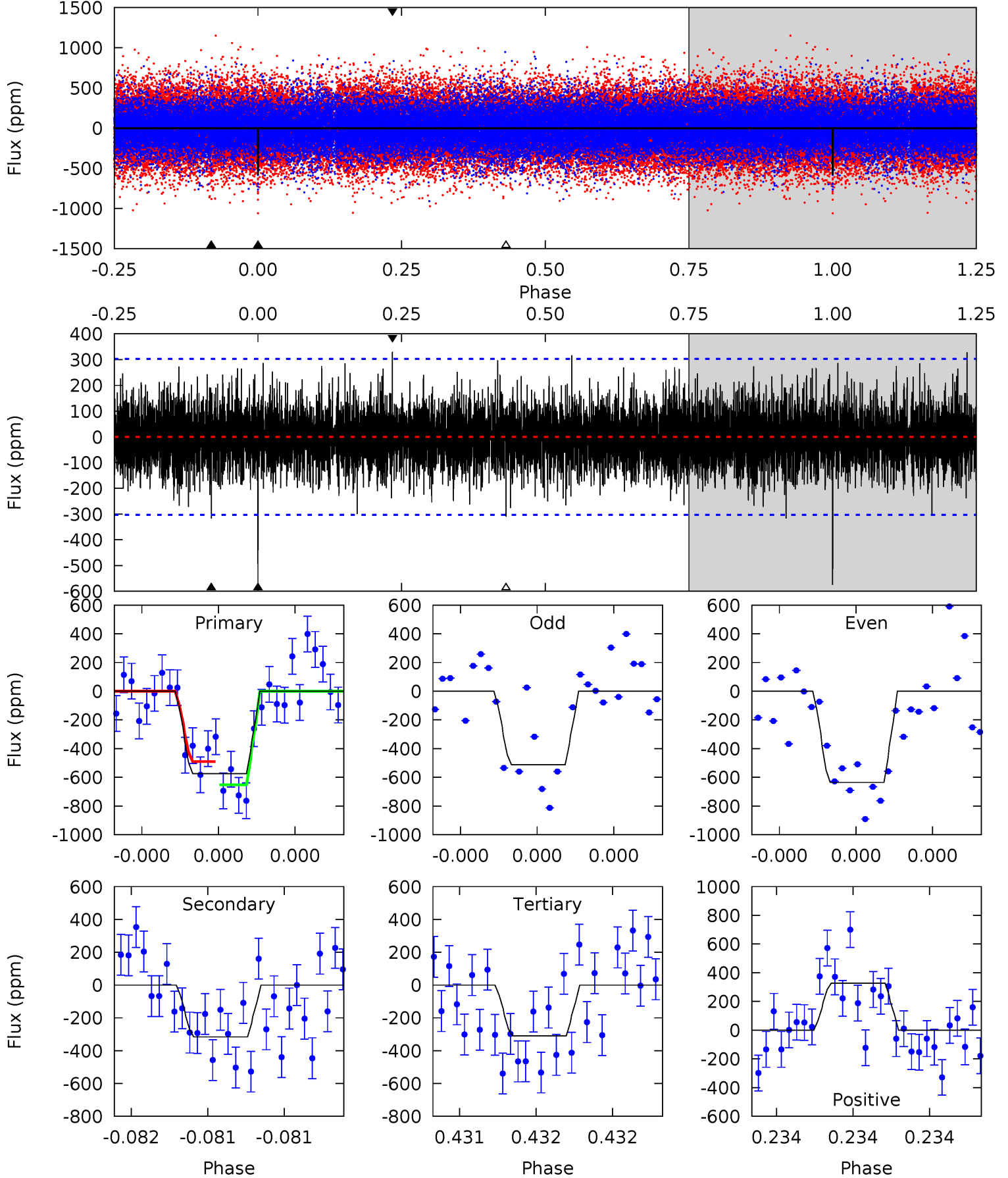
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.0	6.71	6.69	6.69	5.65	3.59	1.72	5.33	5.33	0.02	0.02	0.83	1.01	0.36	1.36



Alt Model-Shift Uniqueness Test

011135119-01, P = 383.940691 Days, E = 299.282685 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	5.91	5.78	6.12	5.66	3.61	1.54	4.95	4.60	0.13	-0.22	1.16	1.02	0.36	1.50



Stellar Parameters For KIC 011135119

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5216^{+141}_{-157}	$3.530^{+0.878}_{-0.234}$	$-0.320^{+0.300}_{-0.250}$	$3.207^{+1.101}_{-2.045}$	$1.270^{+0.166}_{-0.387}$	$0.054^{+1.388}_{-0.030}$
	+3%/-3%	+25%/-7%	+94%/-78%	+34%/-64%	+13%/-30%	+2559%/-55%
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 011135119-01 / KOI 8042.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-342 ± 51	$8.56^{+7.90}_{-5.54}$	526^{+66}_{-96}	4370^{+2143}_{-758}	3194^{+21825}_{-2380}
Alt.	-316 ± 54	$8.21^{+7.32}_{-5.15}$	527^{+64}_{-102}	4352^{+2010}_{-740}	3120^{+19135}_{-2224}

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

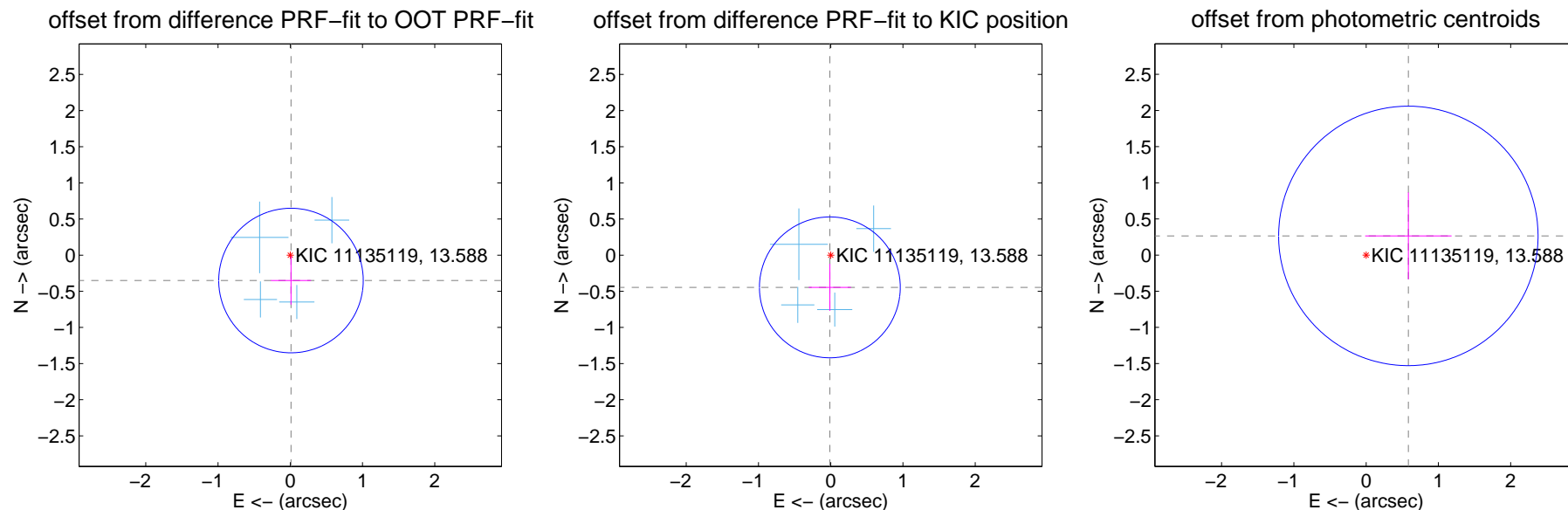
DV Centroid Data

Supplemental centroid analysis for 011135119-01. Kepler magnitude: 13.59. Transit SNR 8.08

There are 4 quarters with good PRF difference image offsets

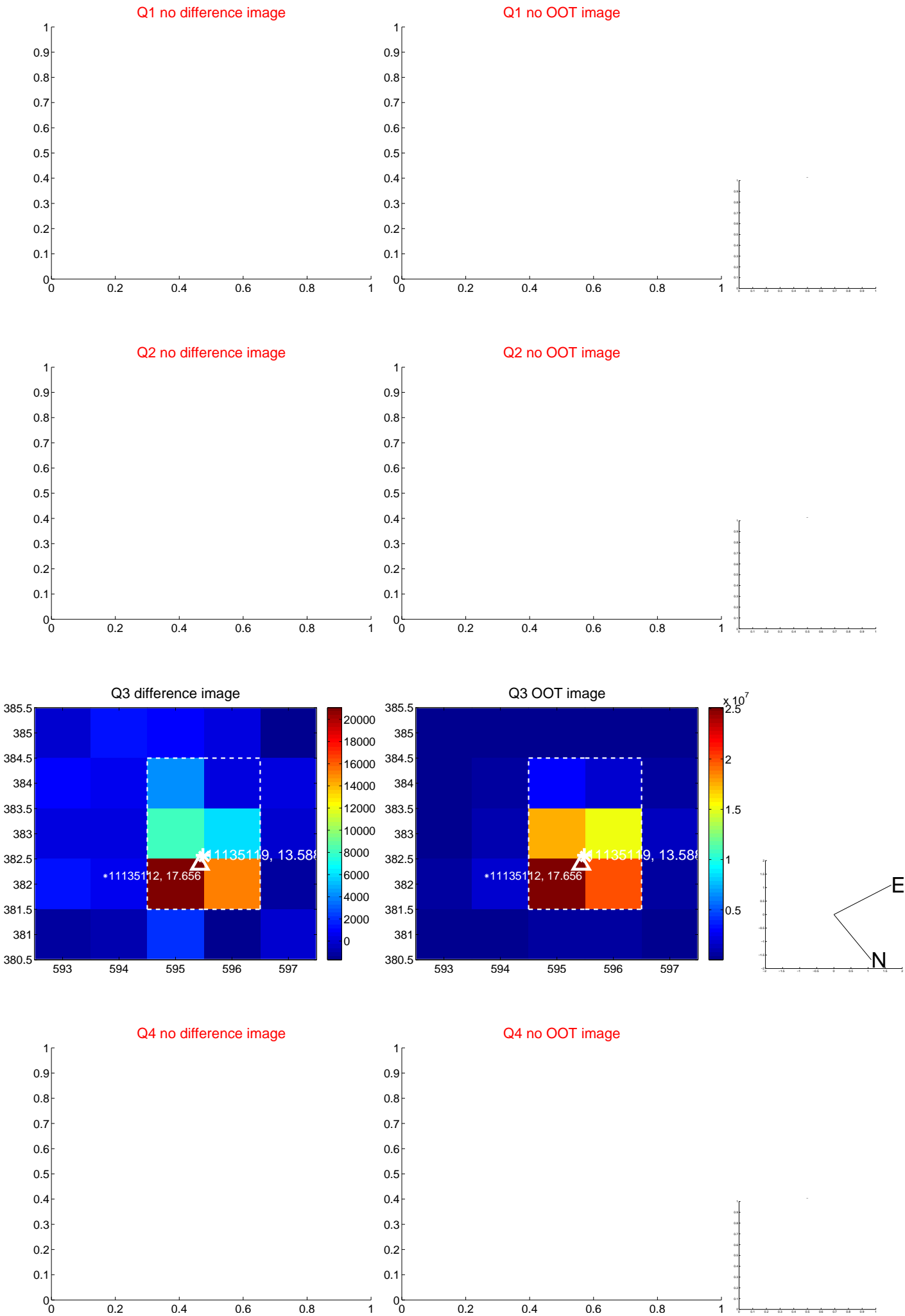
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.351 ± 0.333	1.05	-0.010 ± 0.278	-0.351 ± 0.333
PRF-fit source offset from KIC position	0.446 ± 0.325	1.37	0.012 ± 0.292	-0.446 ± 0.325
photometric centroid source offset	0.64 ± 0.60	1.07	-0.58 ± 0.60	0.27 ± 0.60

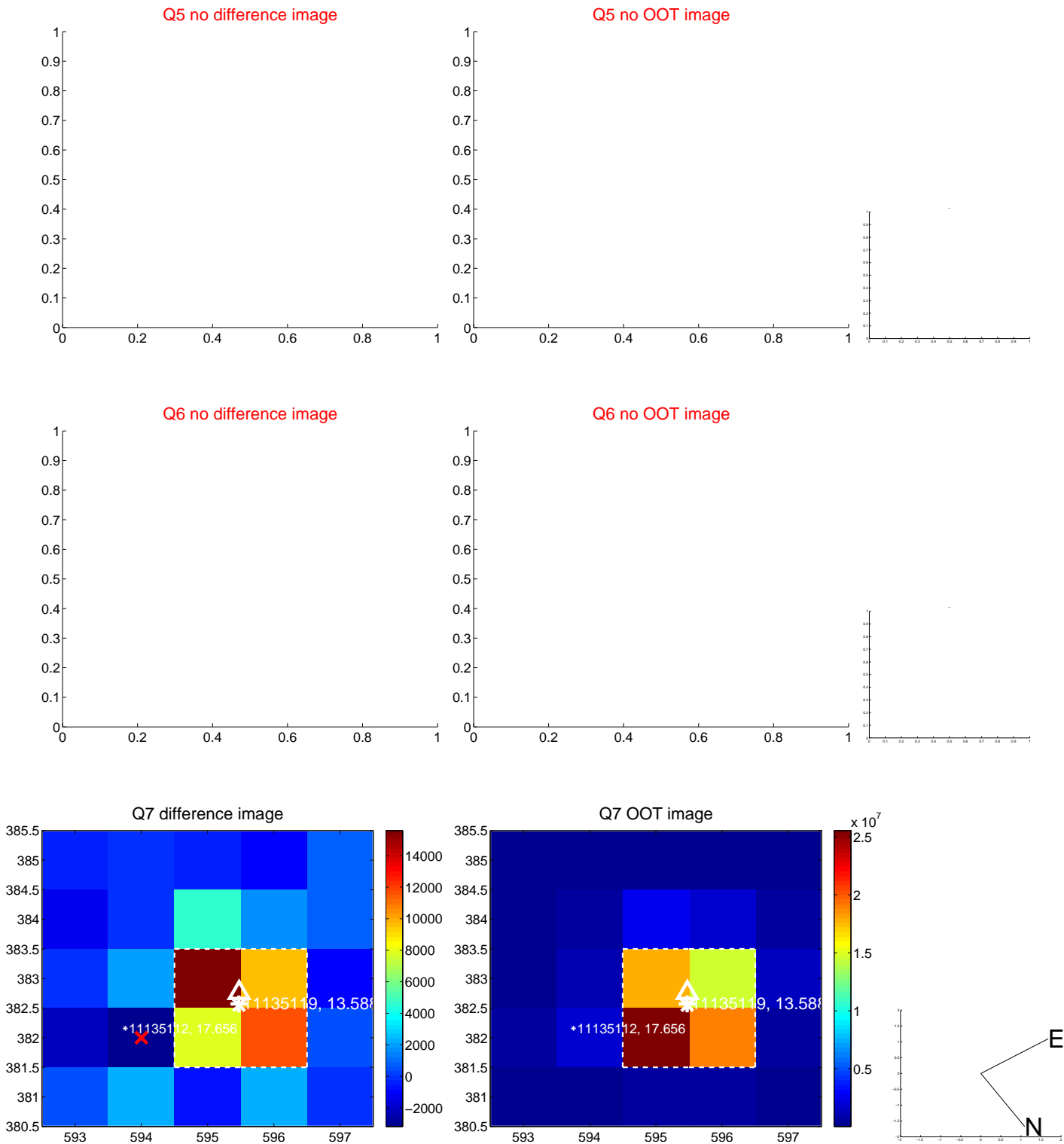


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

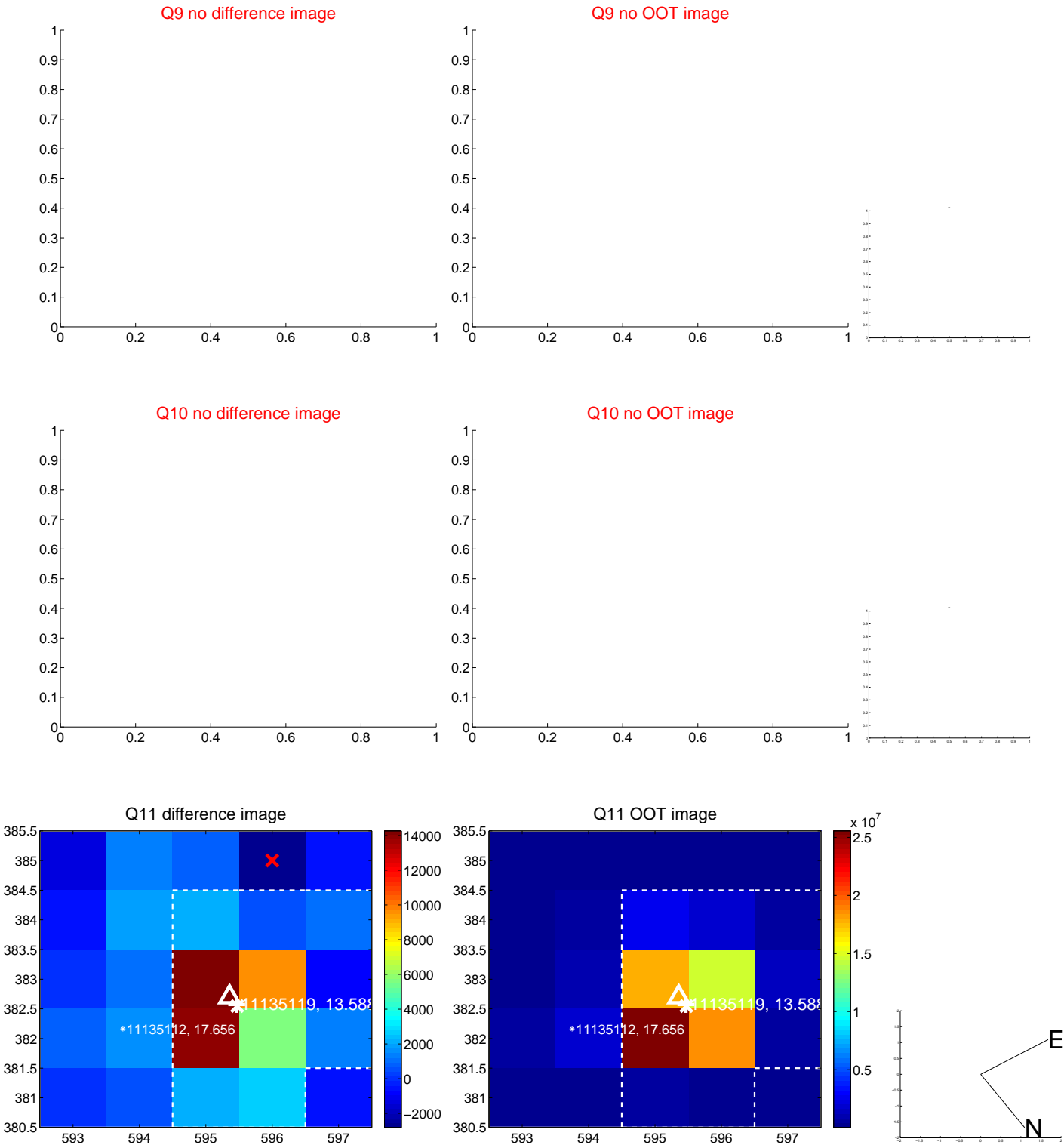
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



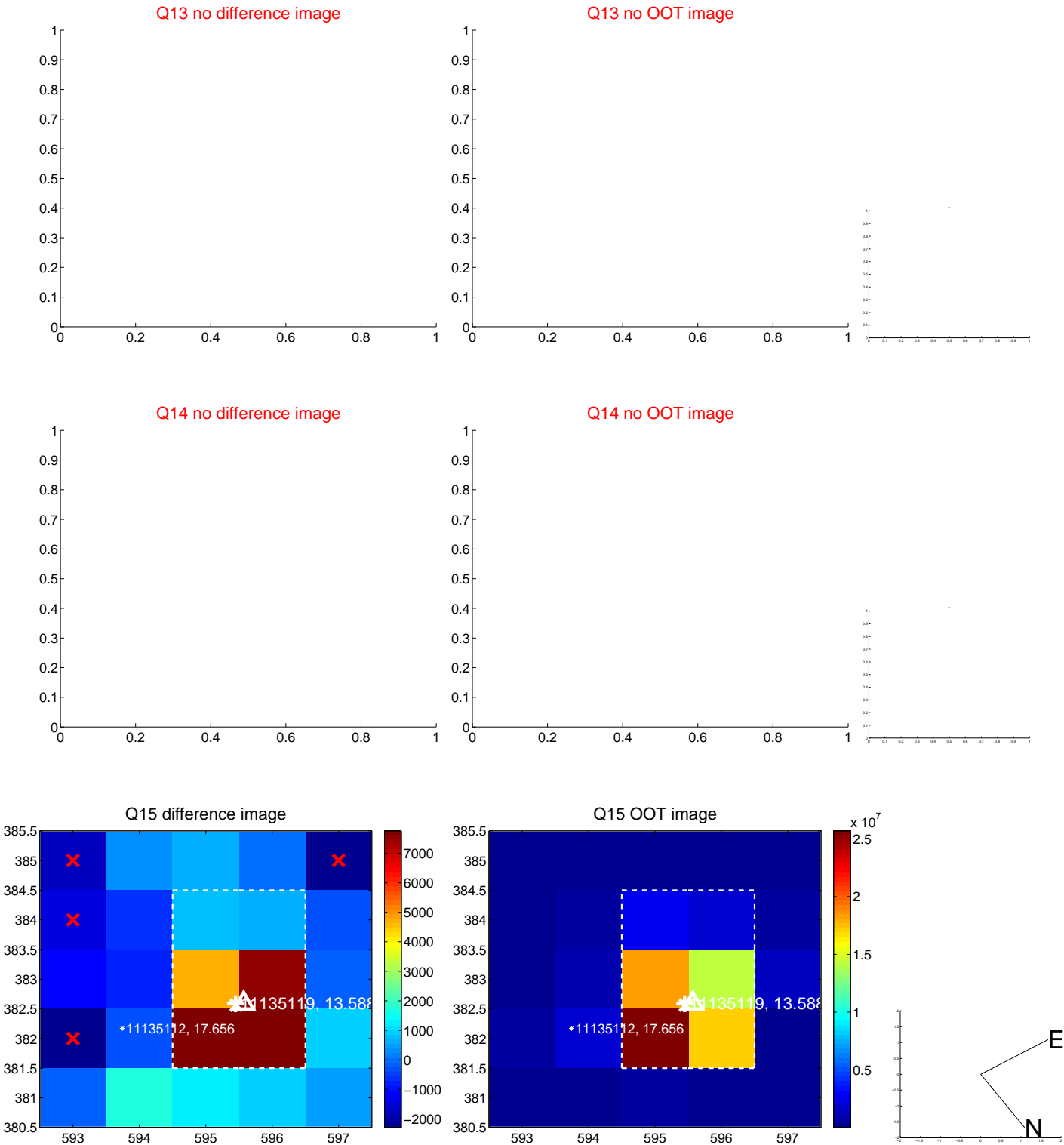
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



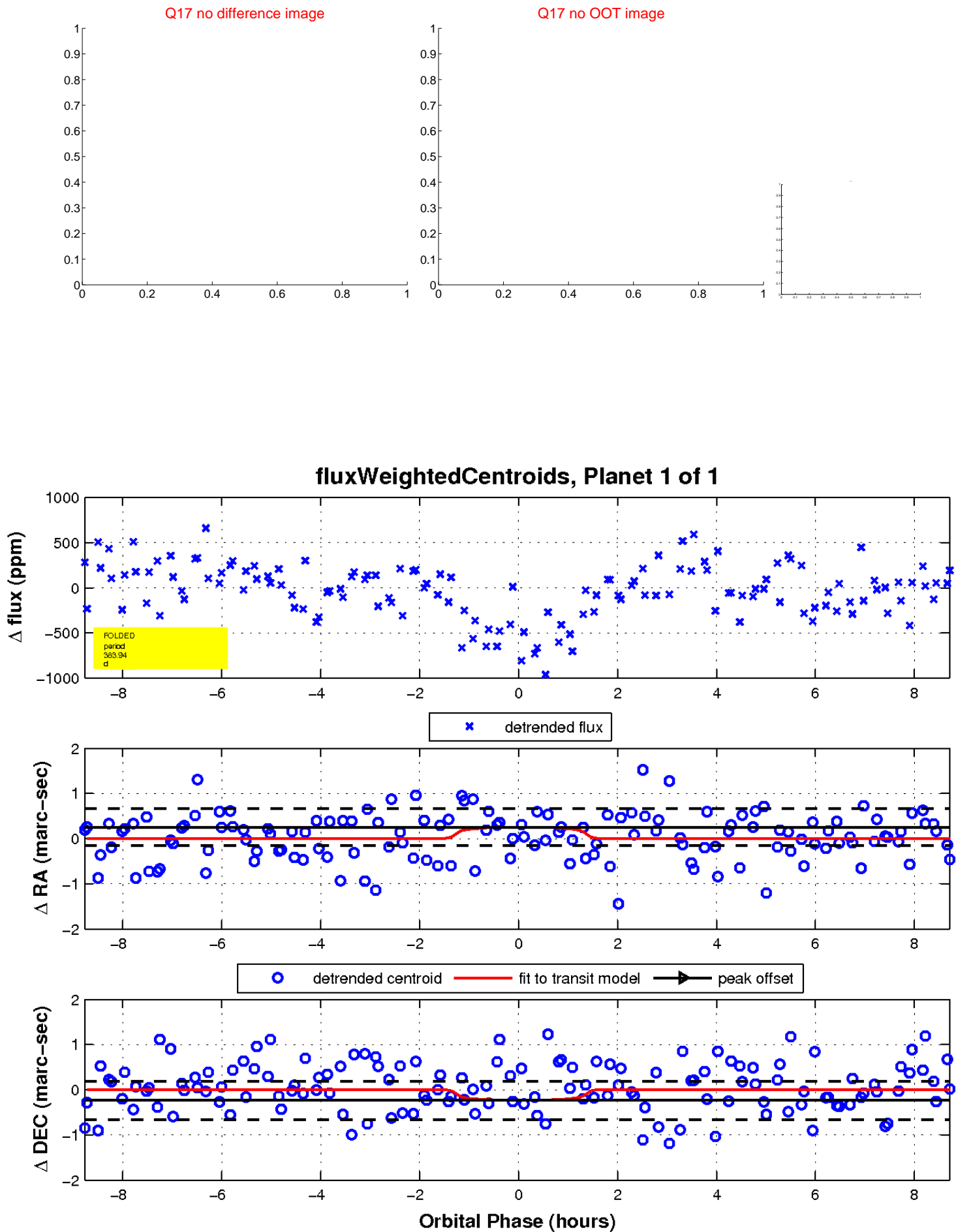
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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.



UKIRT Image

Declination

