

KIC 008192911

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})
008192911-01	OBS	3058.01	7.538790	135.339954	360.2	4.031	12.1	13.4	0.67	5318	1.72	75.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008192911-01	OBS	FP	0.00	0	0	1	0	CENT_UNRESOLVED_OFFSET

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 008192911-01

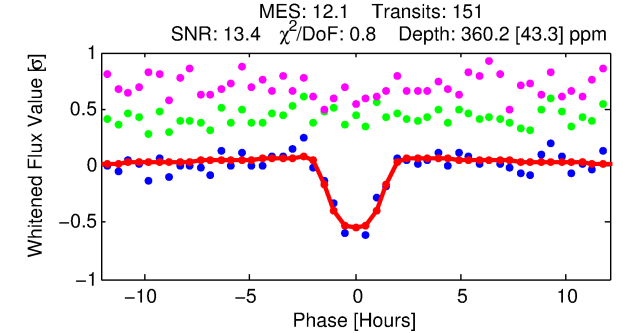
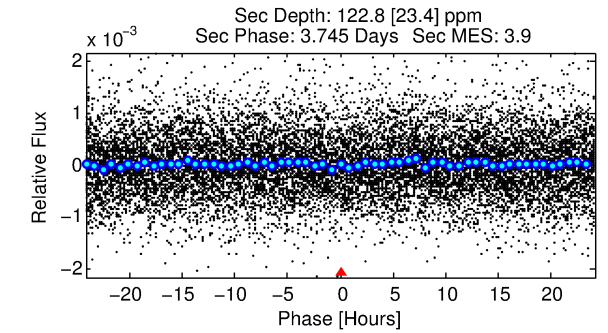
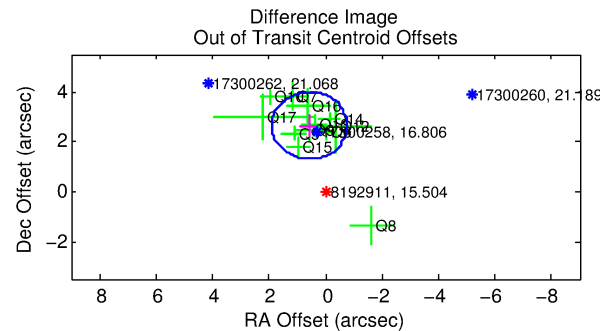
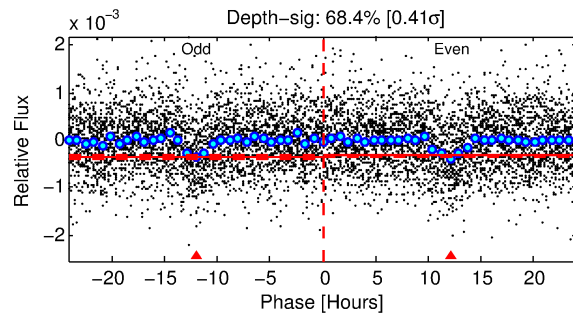
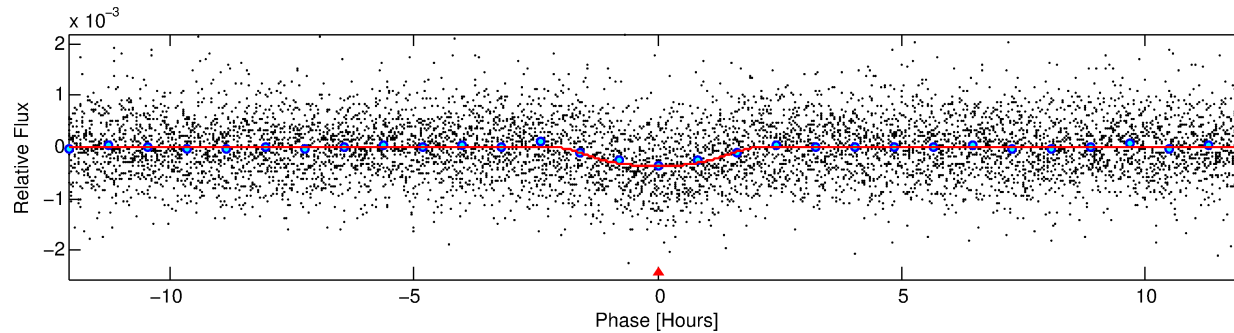
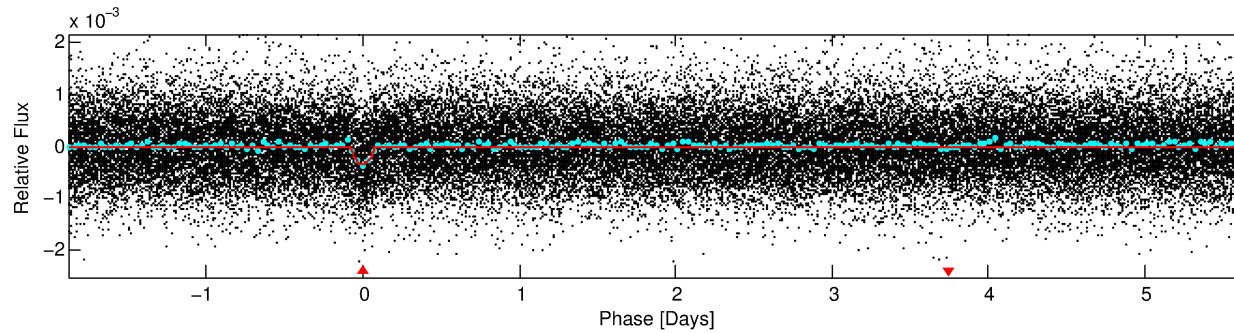
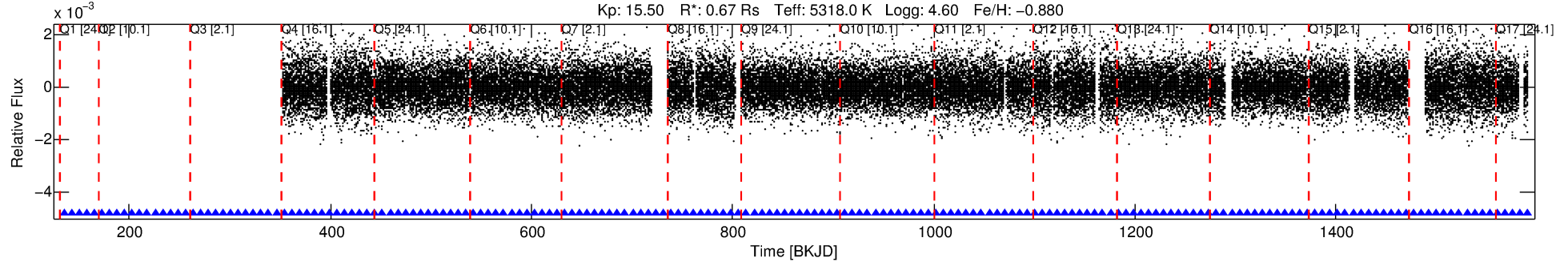
No Significant Match Found

DV One-Page Summary

KIC: 8192911 Candidate: 1 of 1 Period: 7.539 d

KOI: K03058.01 Corr: 0.853

Kp: 15.50 R*: 0.67 Rs Teff: 5318.0 K Logg: 4.60 Fe/H: -0.880



DV Fit Results:

Period = 7.53879 [0.00007] d
Epoch = 135.3400 [0.0082] BKJD
Rp/R* = 0.0237 [0.0022]
a/R* = 4.56 [0.69]
b = 0.98 [0.01]
Seff = 75.20 [14.84]
Teq = 751 [37] K
Rp = 1.72 [0.24] Re
a = 0.0651 [0.0060] AU
Ag = 96.29 [28.80] [3.31σ]
Teffp = 3637 [272] K [10.50σ]

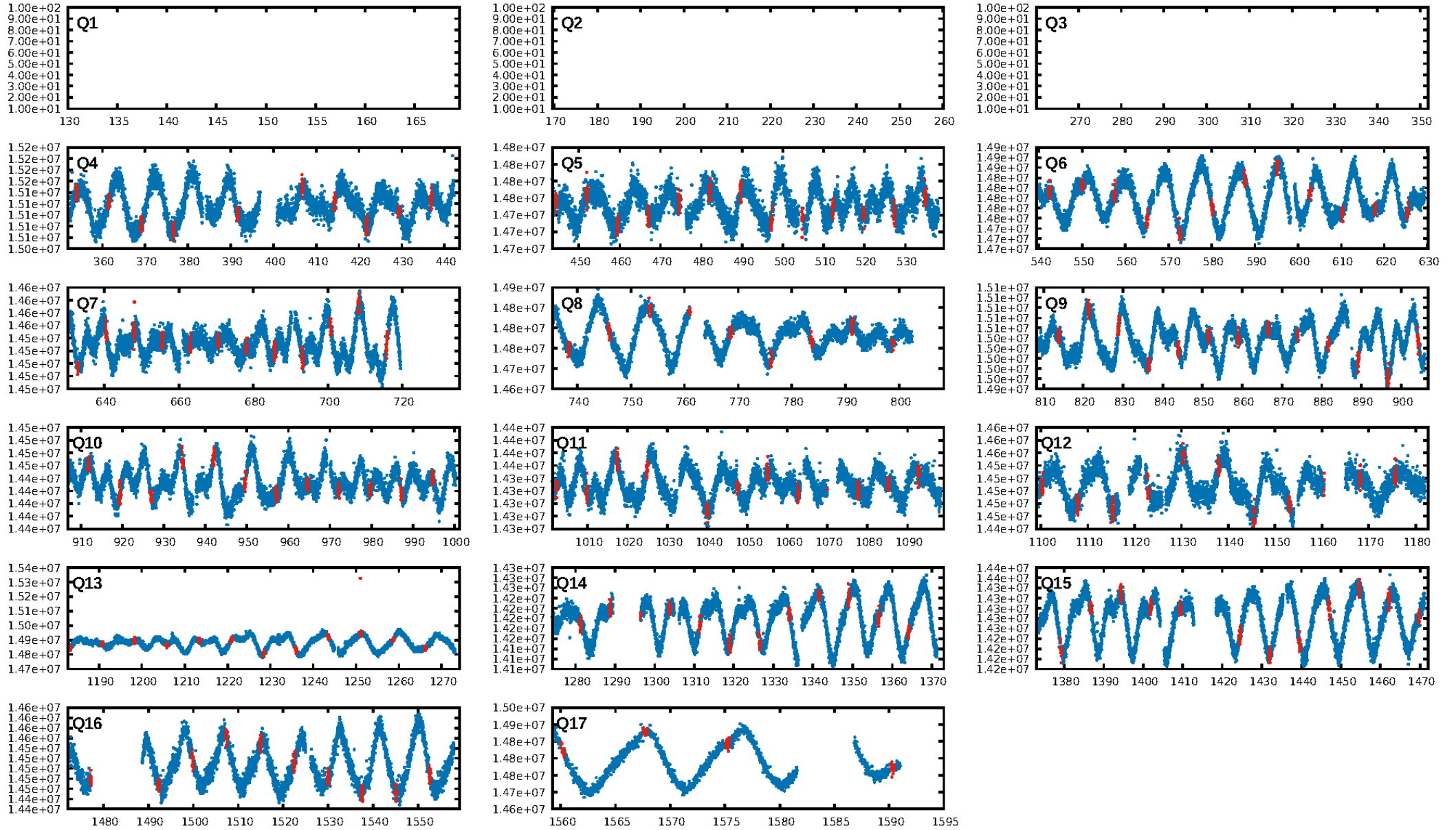
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 99.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.39e-33
RollingBand-fgt: 1.00 [147/147]
GhostDiagnostic-chr: 3.152
Centroid-sig: 6.1%
Centroid-so: 0.742 arcsec [0.81σ]
OotOffset-rm: 2.705 arcsec [6.06σ]
KicOffset-rm: 2.534 arcsec [5.14σ]
OotOffset-st: 3/2/3/4 [12]
KicOffset-st: 3/2/3/4 [12]
DiffImageQuality-fgm: 0.75 [9/12]
DiffImageOverlap-fno: 1.00 [14/14]

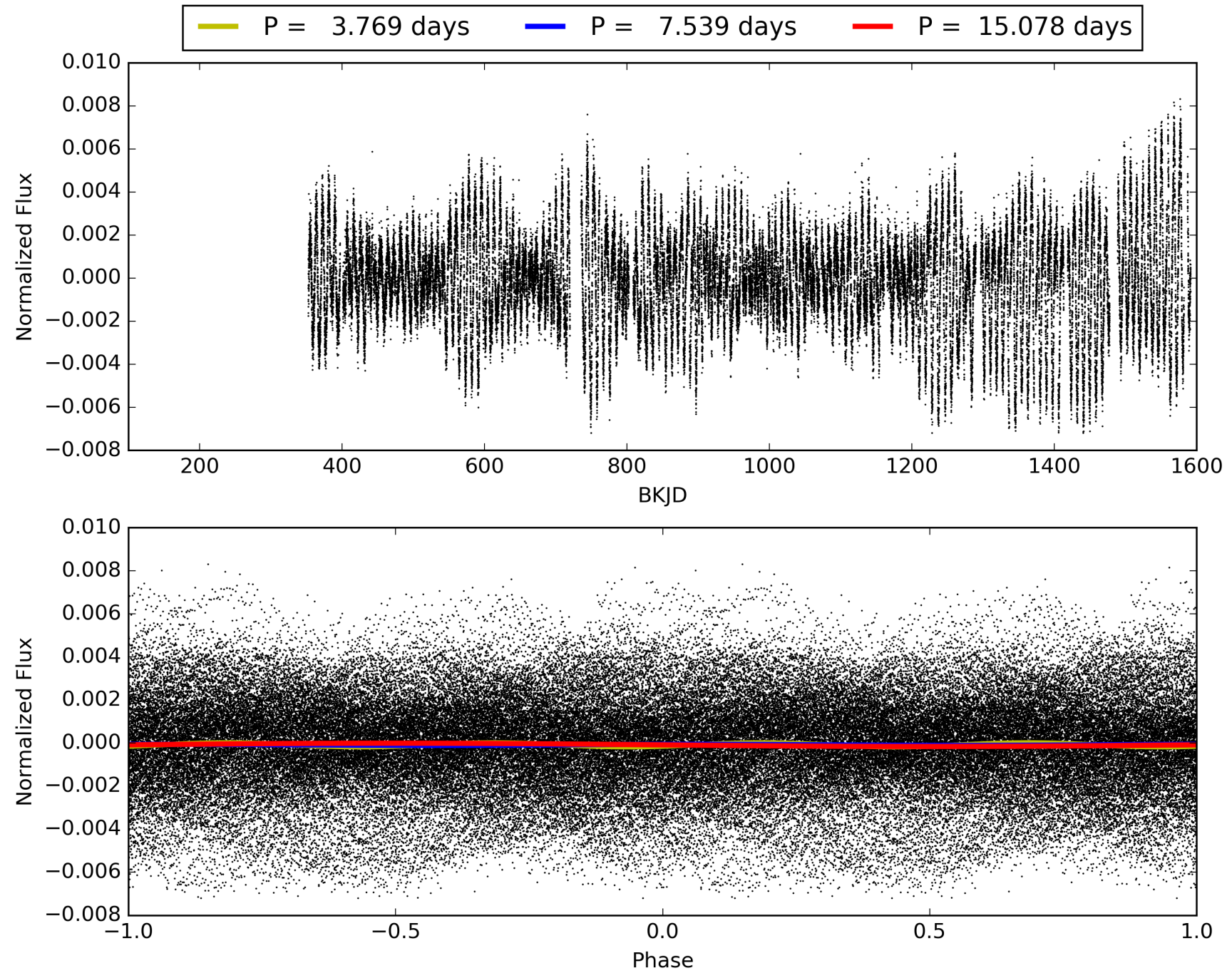
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:40:50 Z

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

TCE 008192911-01, PDC Light Curves

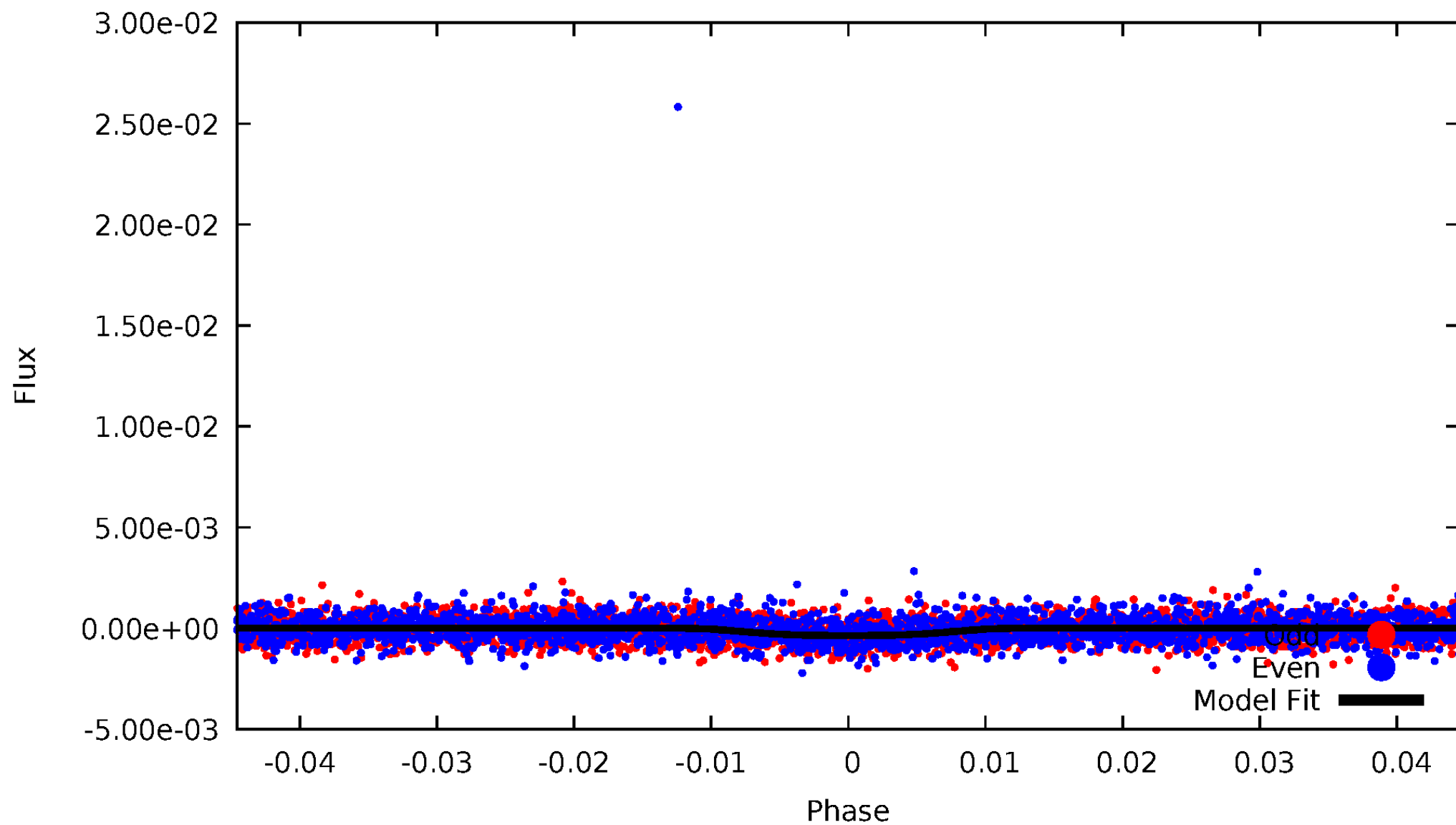


TCE 008192911-01



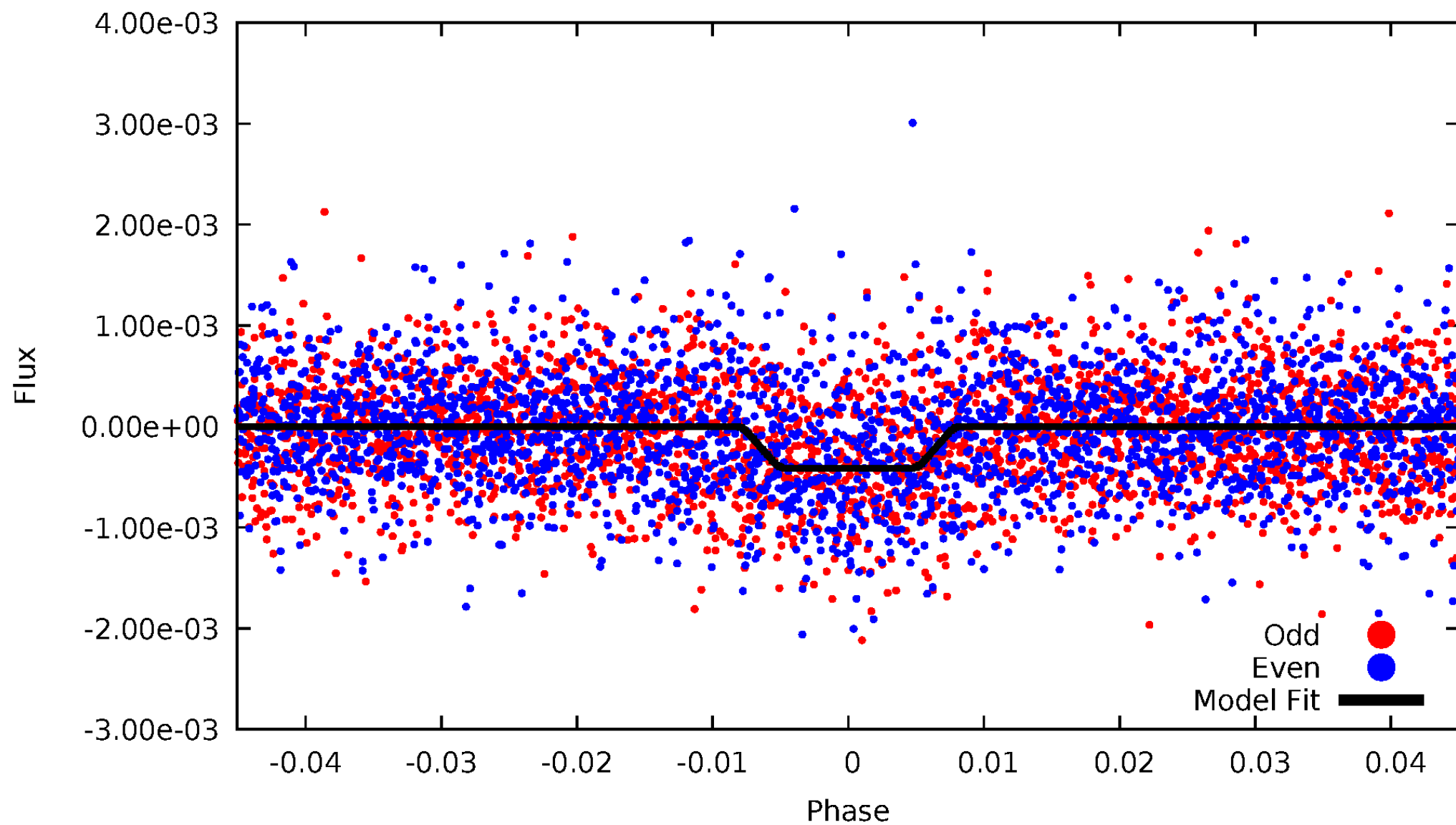
DV Odd/Even

TCE 008192911-01



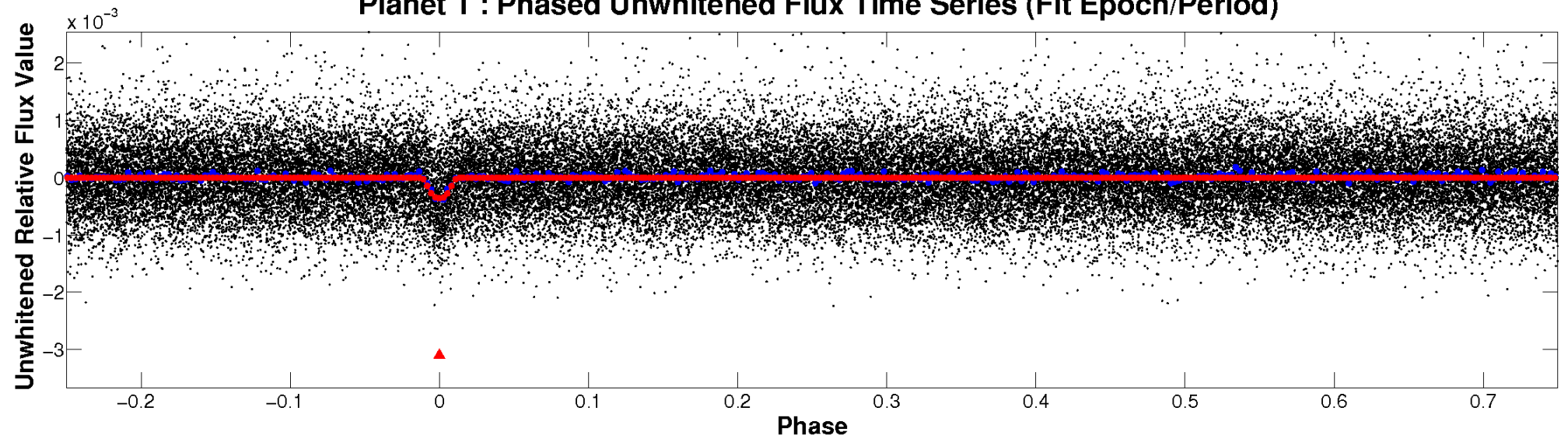
ALT Odd/Even

TCE 008192911-01

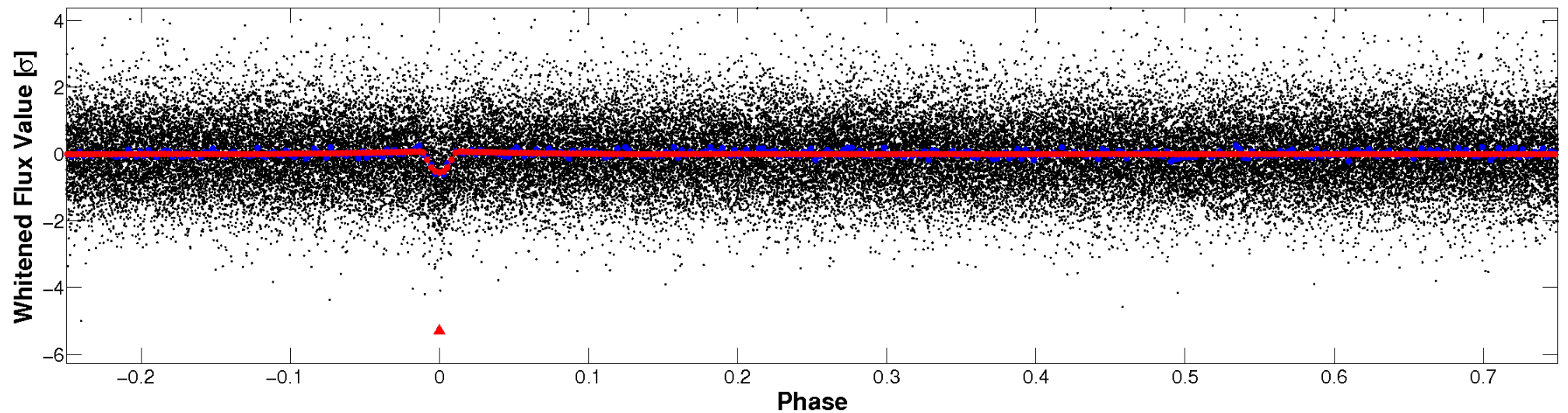


Non-Whitened Vs. Whitened Light Curve

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

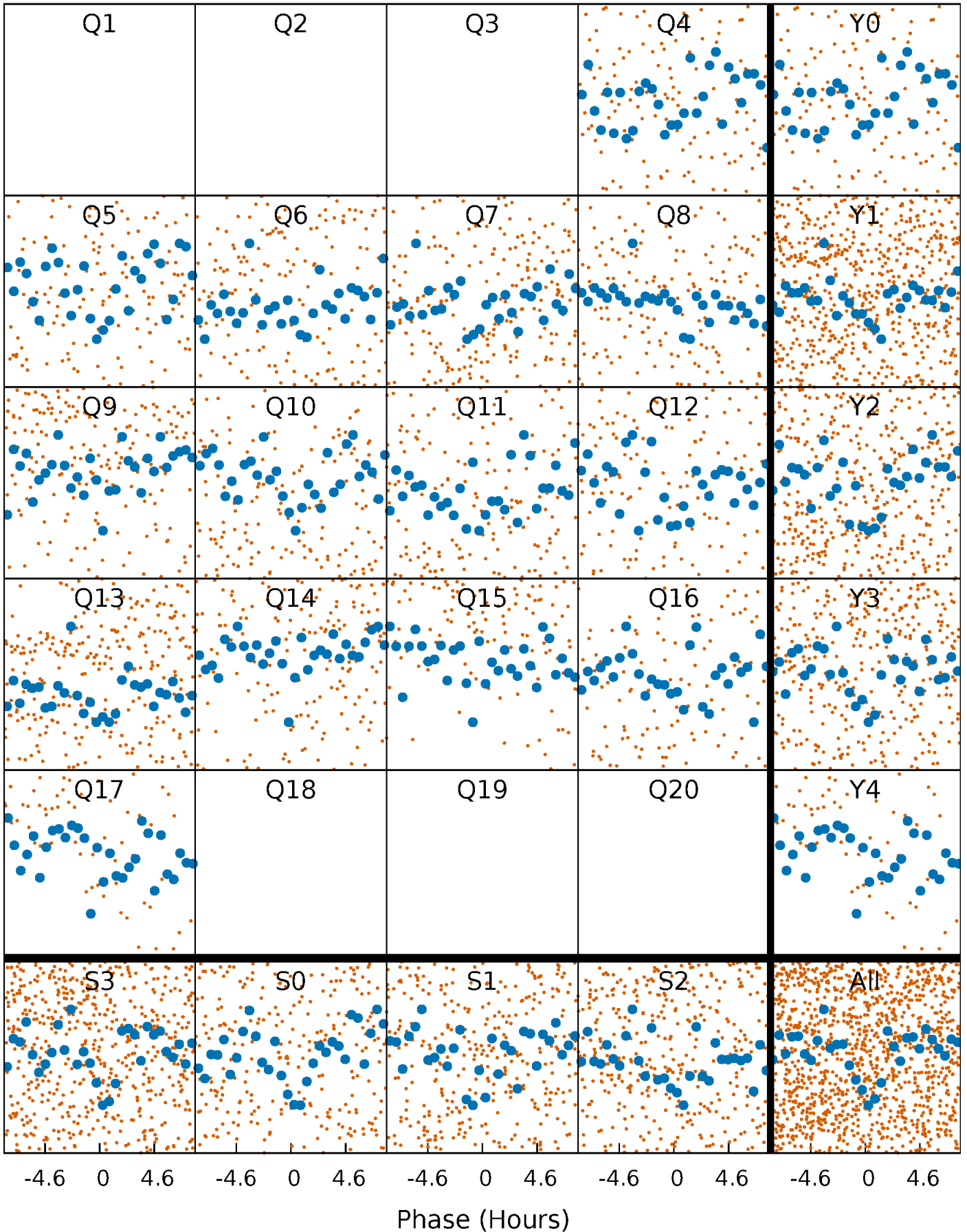


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



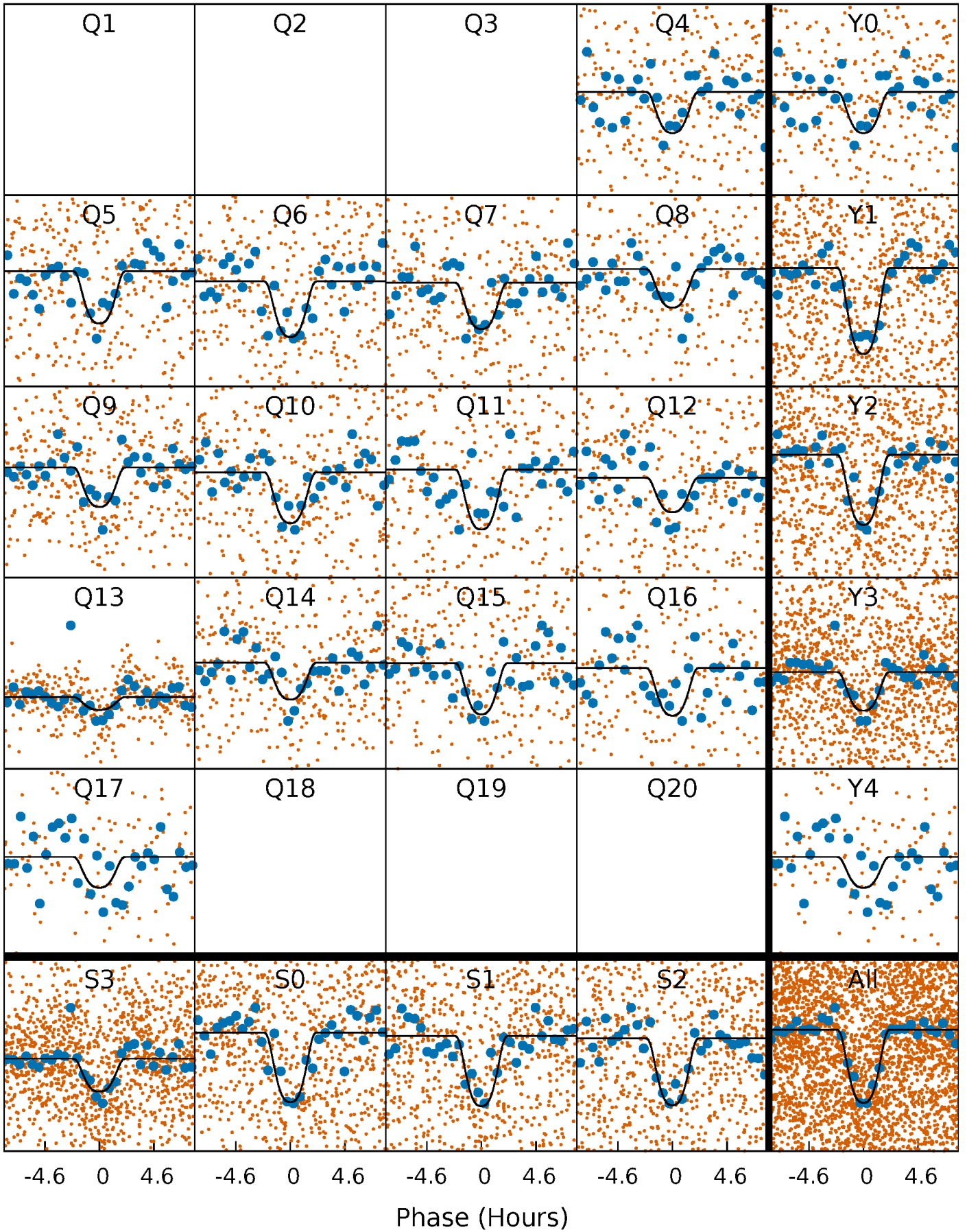
PDC Quarter-Phased Transit Curves

TCE 008192911-01 P= 7.538790 Days $T_0=135.339954$ (BKJD)



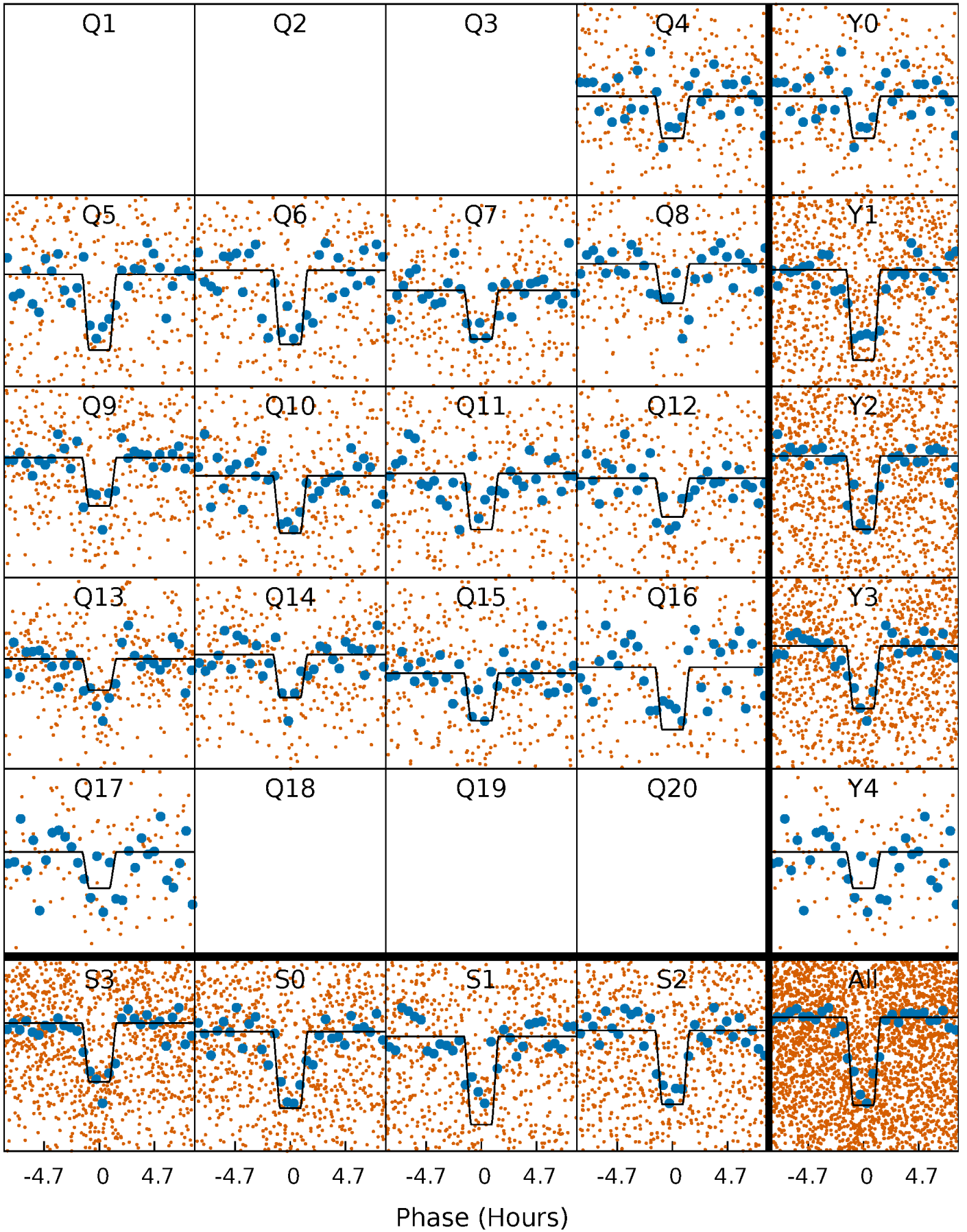
DV Quarter-Phased Transit Curves

TCE 008192911-01 P= 7.538790 Days $T_0=135.339954$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

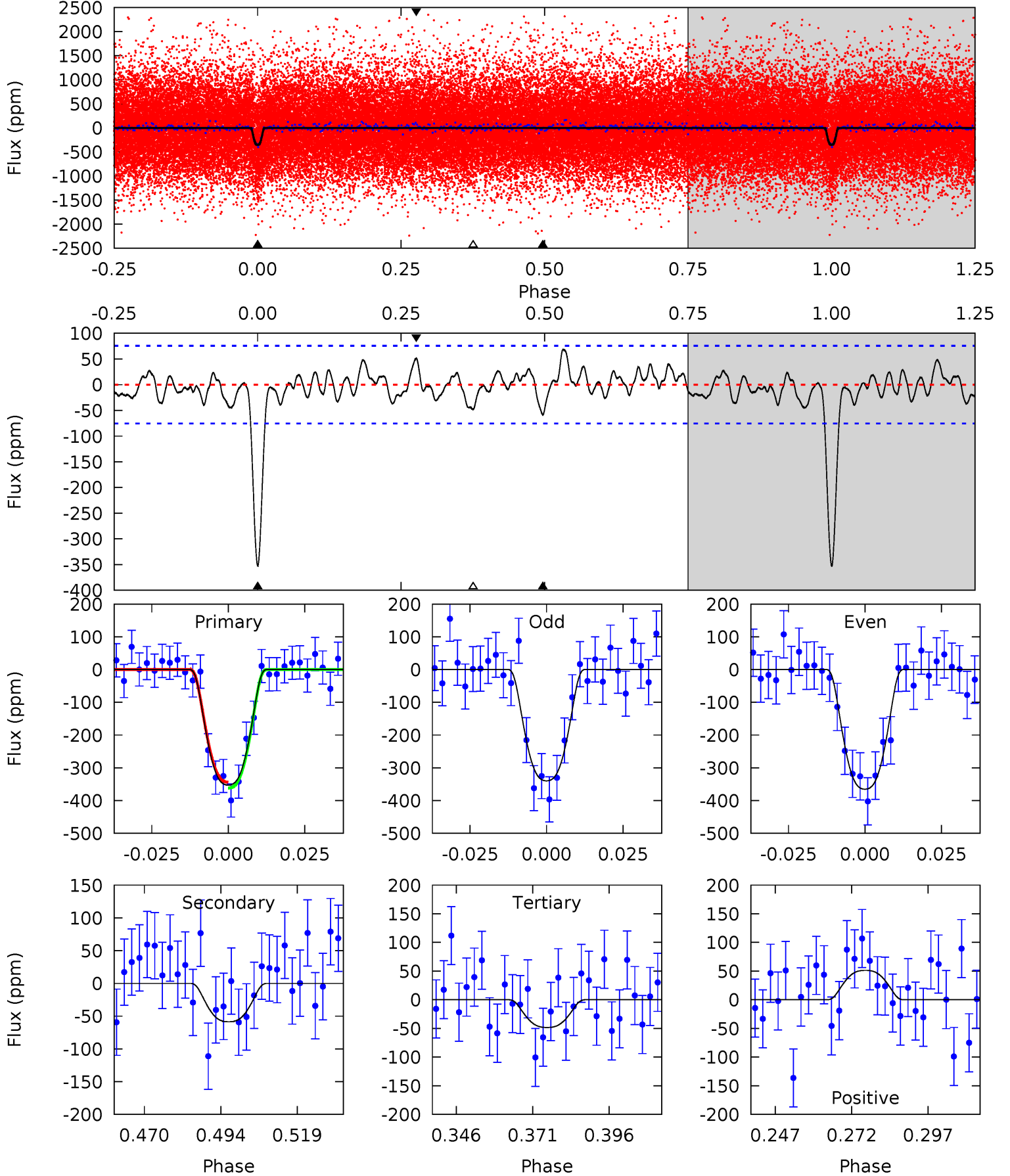
TCE 008192911-01 P= 7.538817 Days $T_0=135.338450$ (BKJD)



DV Model-Shift Uniqueness Test

008192911-01, P = 7.538790 Days, E = 135.339954 Days

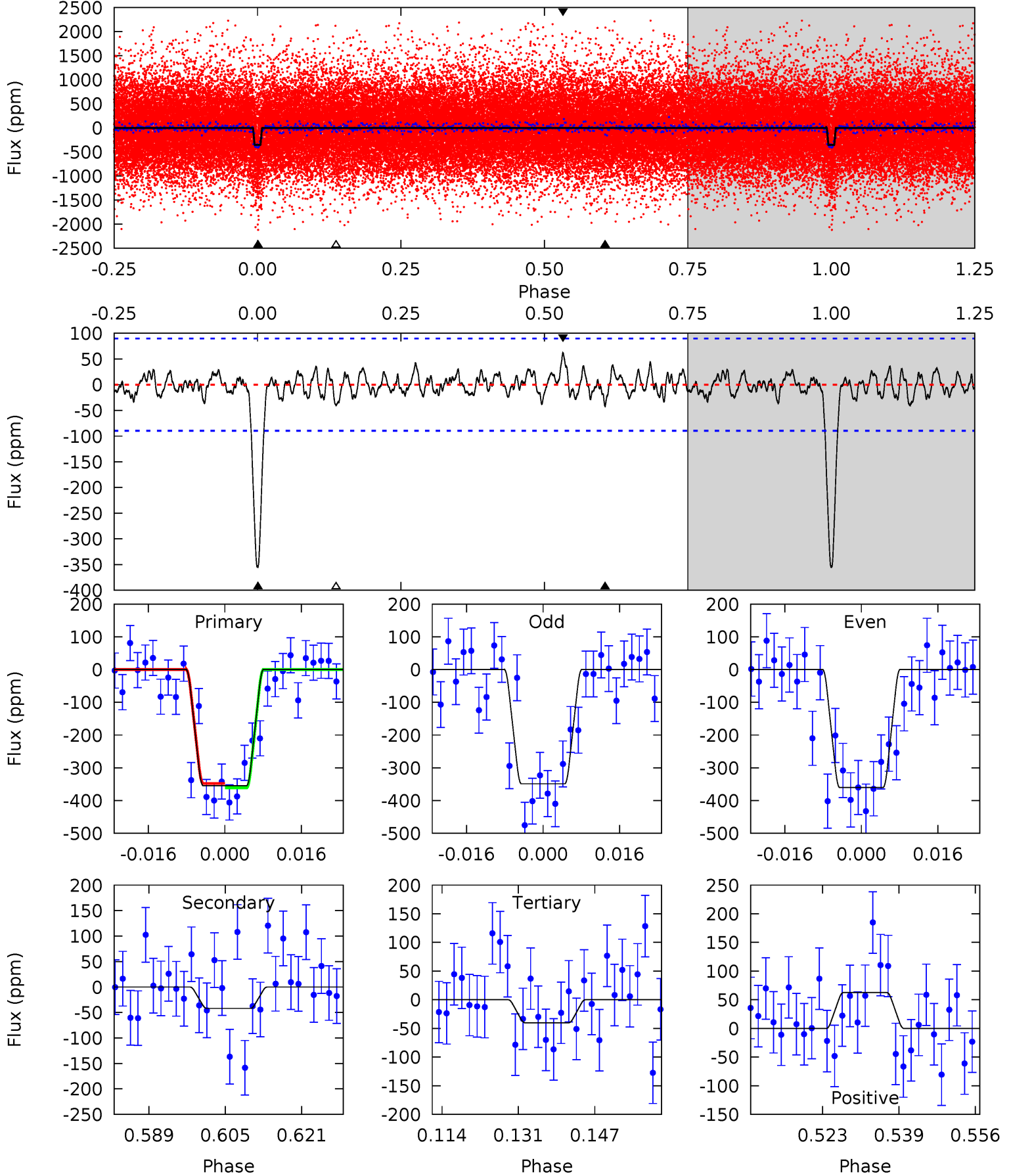
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.6	3.76	3.10	3.29	4.85	2.25	1.37	19.5	19.3	0.66	0.47	0.82	1.07	0.16	0.58



Alt Model-Shift Uniqueness Test

008192911-01, P = 7.538817 Days, E = 135.338450 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.5	2.31	2.20	3.43	4.93	2.40	0.92	17.3	16.0	0.11	-1.12	0.31	0.94	0.15	0.36



Stellar Parameters For KIC 008192911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5318^{+186}_{-186}	$4.601^{+0.078}_{-0.058}$	$-0.880^{+0.350}_{-0.300}$	$0.667^{+0.071}_{-0.058}$	$0.646^{+0.071}_{-0.027}$	$3.070^{+0.932}_{-0.598}$
	+3%/-3%	+2%/-1%	+40%/-34%	+11%/-9%	+11%/-4%	+30%/-19%
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 008192911-01 / KOI 3058.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-59 ± 16	$1.73^{+0.18}_{-0.18}$	1045^{+46}_{-43}	3478^{+194}_{-218}	46^{+16}_{-14}
Alt.	-42 ± 18	$1.48^{+0.17}_{-0.18}$	1043^{+50}_{-42}	3460^{+260}_{-313}	44^{+26}_{-20}

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 $A_{obs} \gg 1.0$

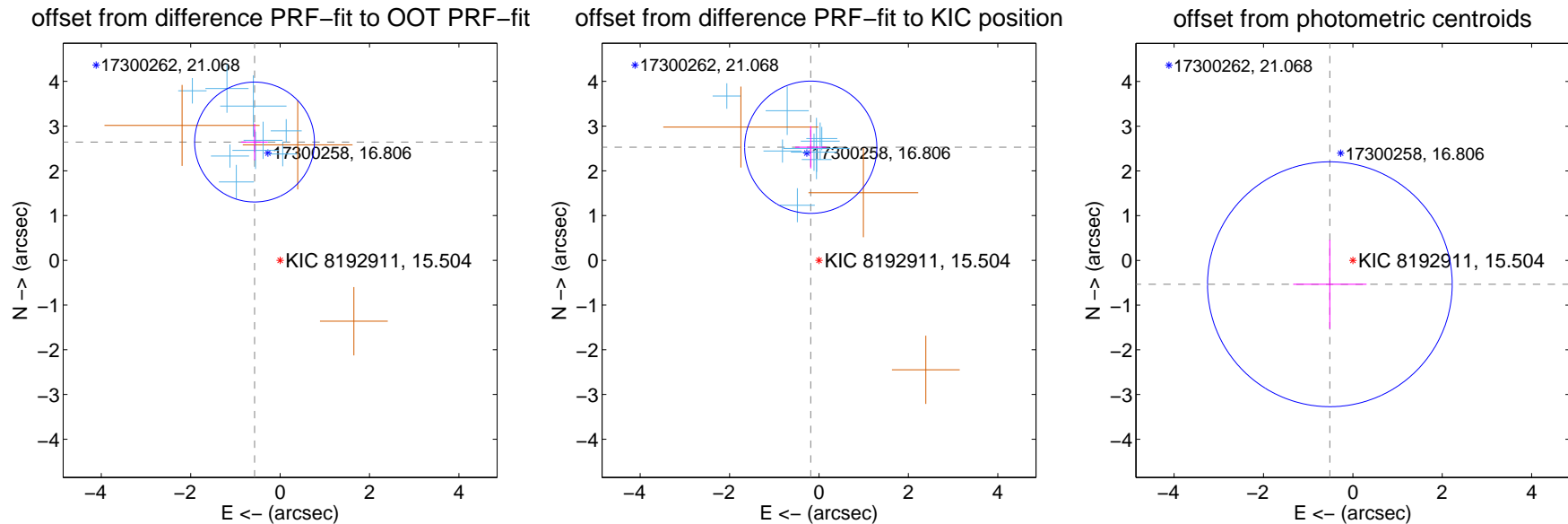
DV Centroid Data

Supplemental centroid analysis for 008192911-01. Kepler magnitude: 15.50. Transit SNR 13.44

There are 9 quarters with good PRF difference image offsets

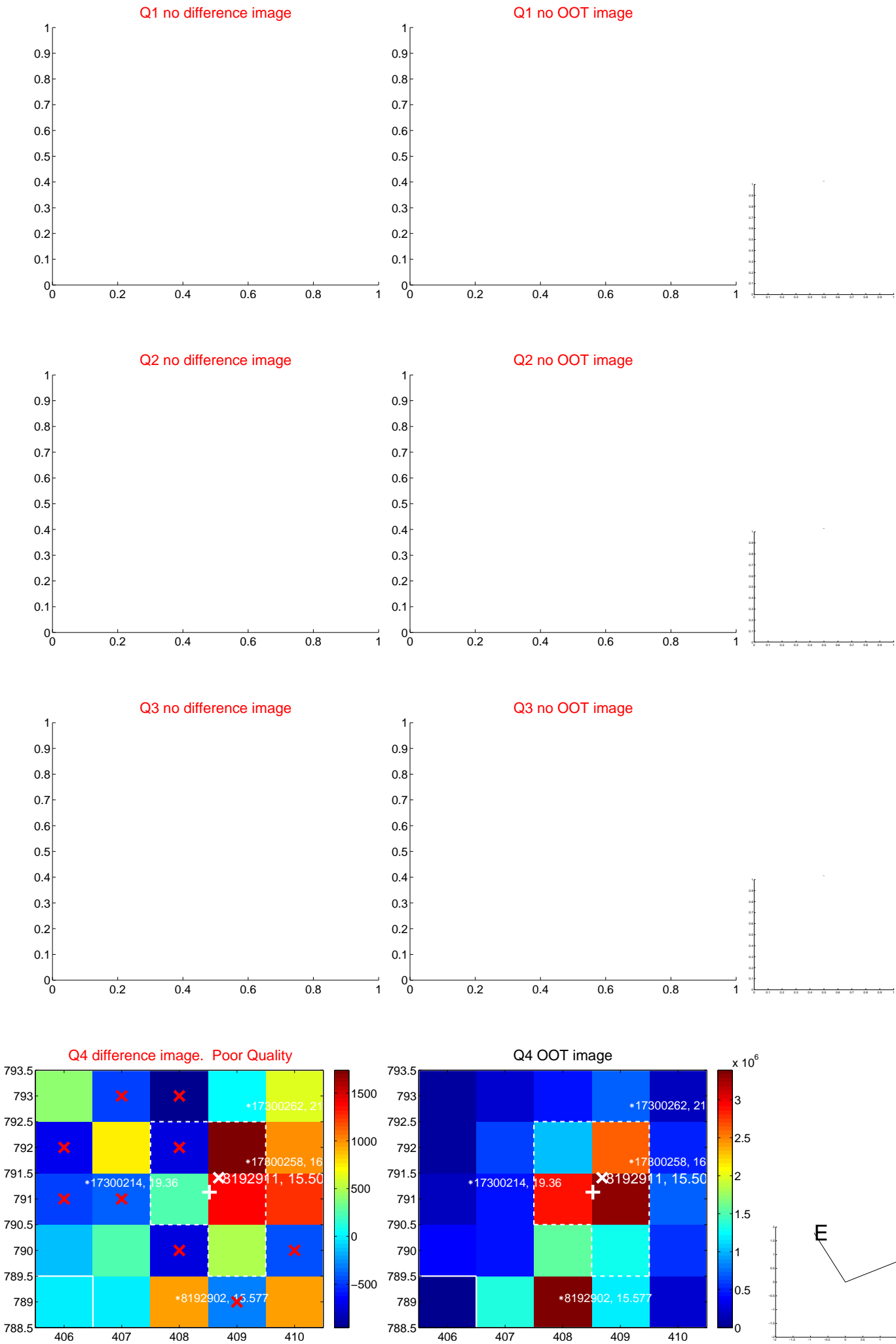
The direct PRF centroid is offset from the target star catalog position by about 0.45 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.705 ± 0.447	6.06	0.572 ± 0.298	2.644 ± 0.408
PRF-fit source offset from KIC position	2.534 ± 0.493	5.14	0.184 ± 0.348	2.527 ± 0.473
photometric centroid source offset	0.74 ± 0.91	0.81	0.51 ± 0.82	-0.53 ± 0.99

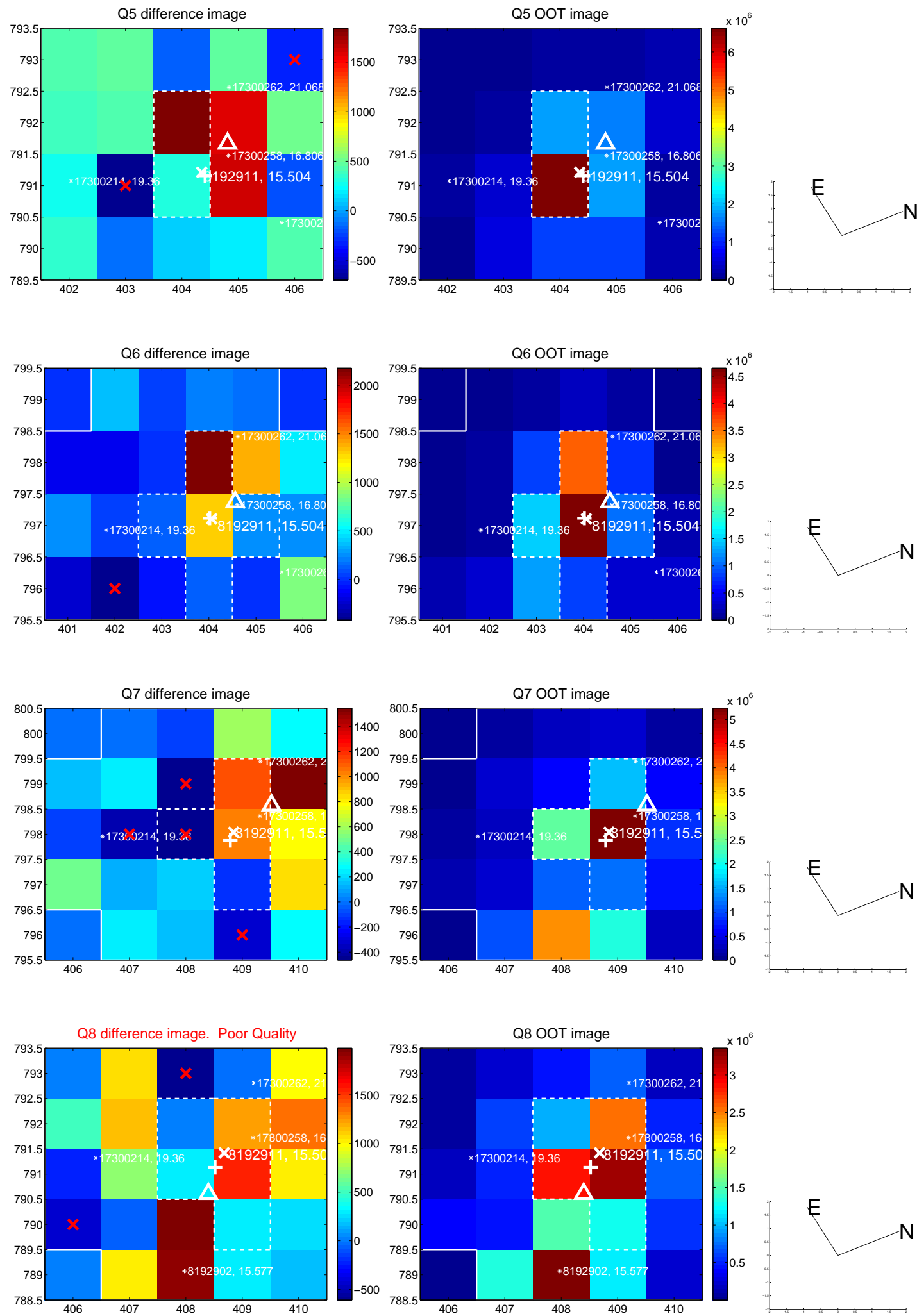


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

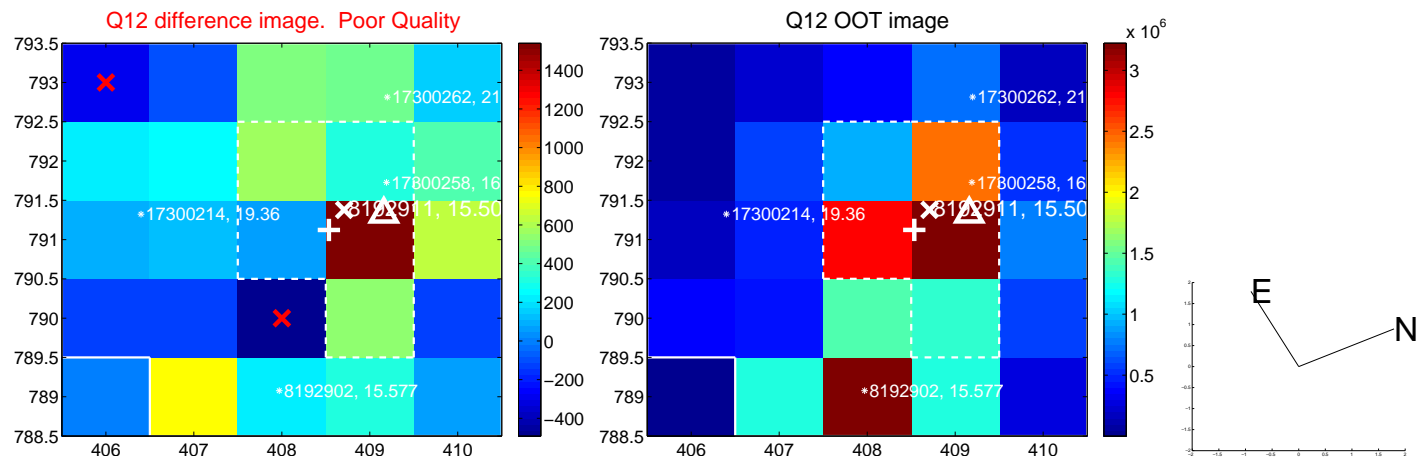
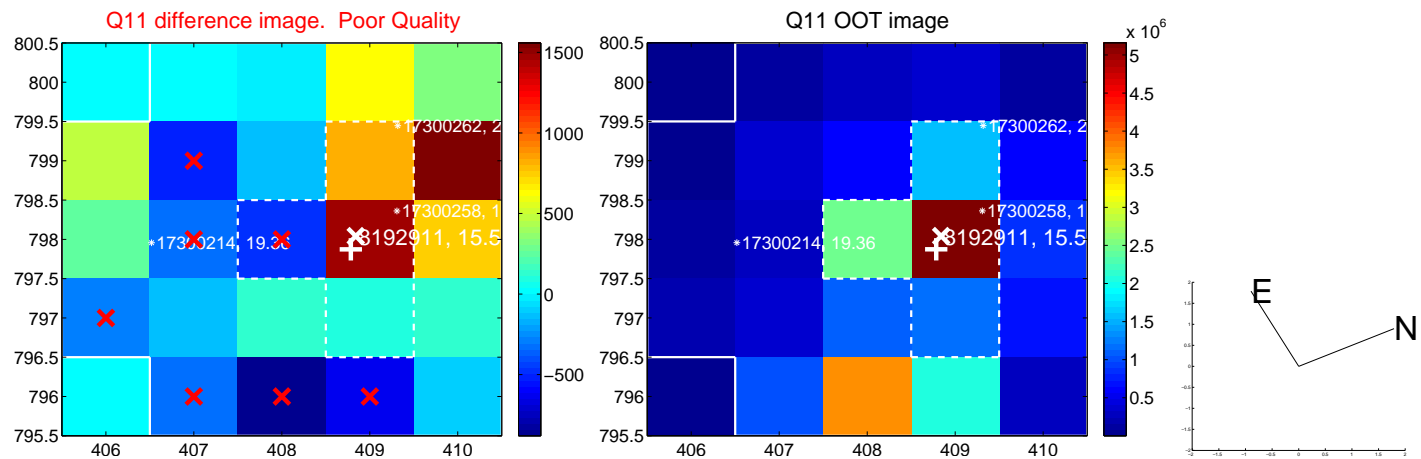
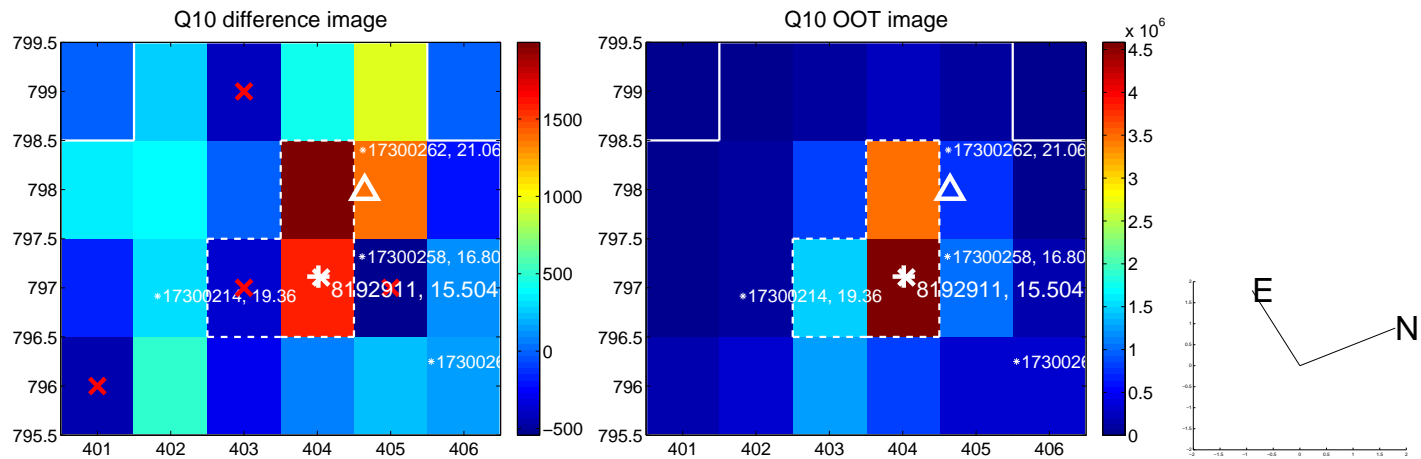
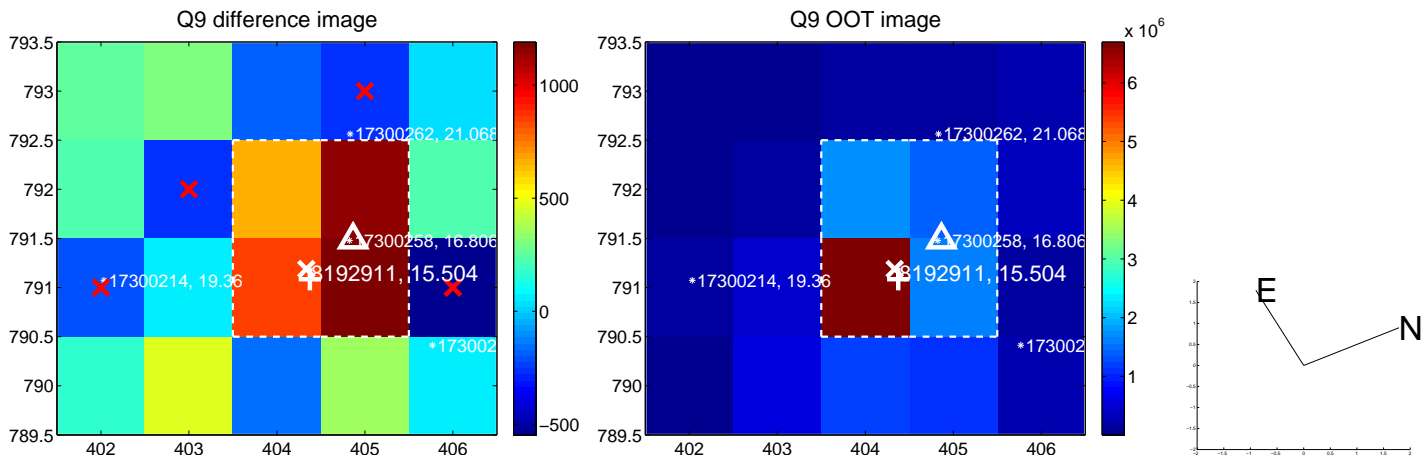
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



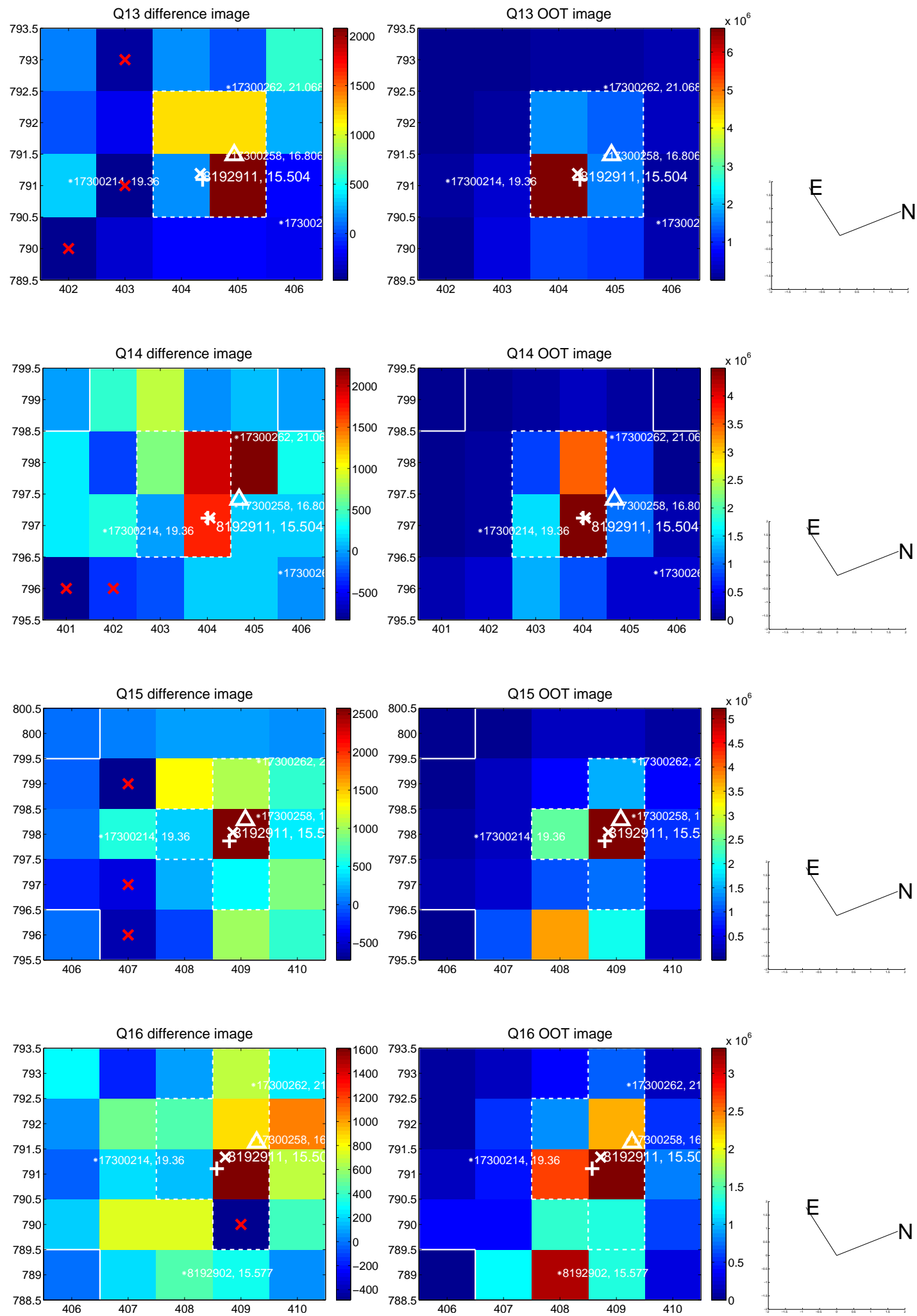
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



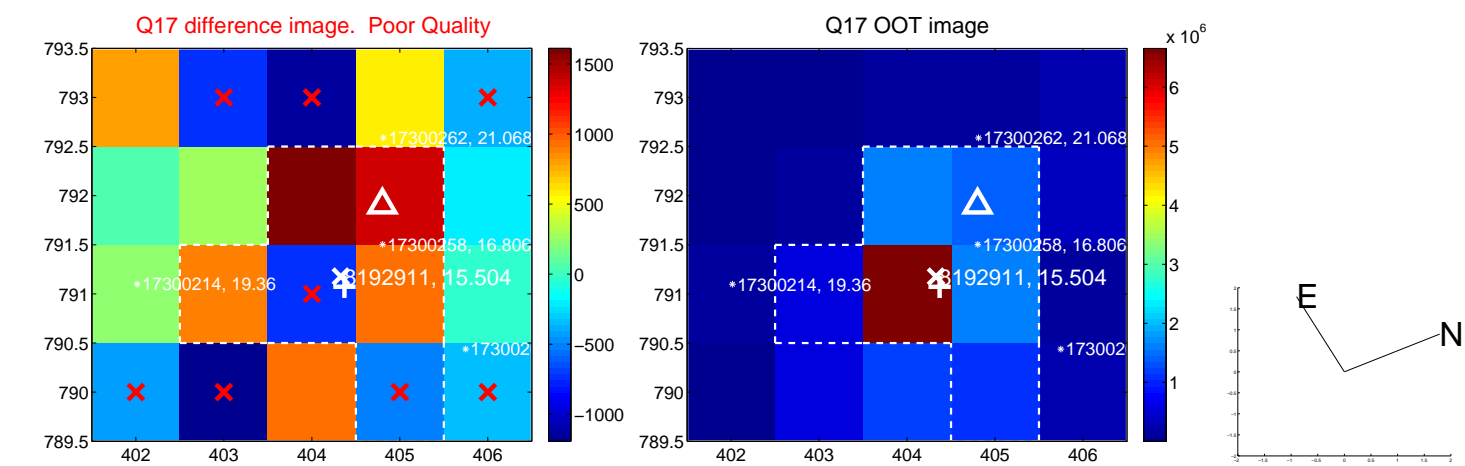
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



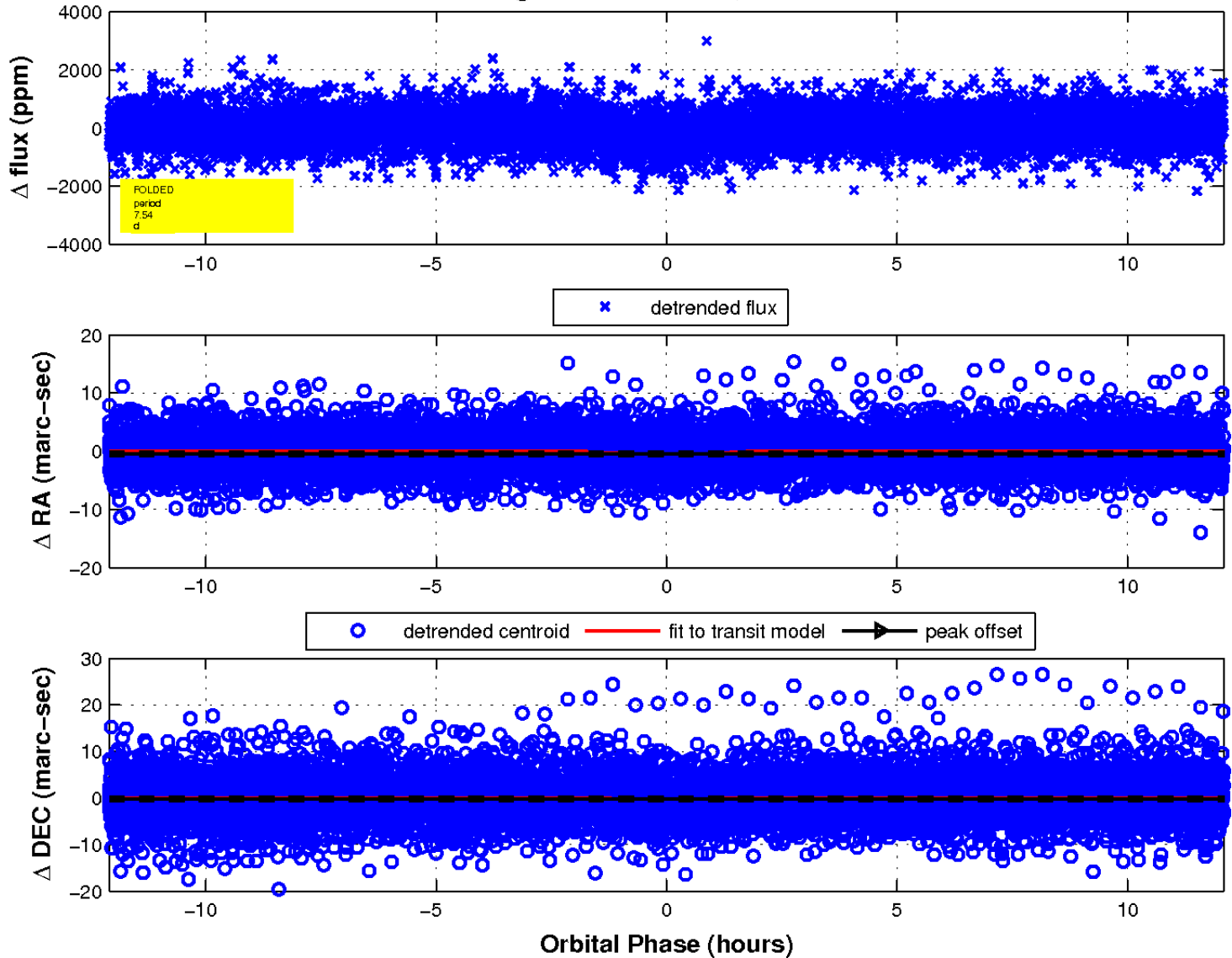
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

