

KIC 007905191

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})
007905191-01	OBS	No	0.838105	131.990933	32.6	2.814	7.6	3.4	0.99	6014	0.67	3579.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007905191-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET

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

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

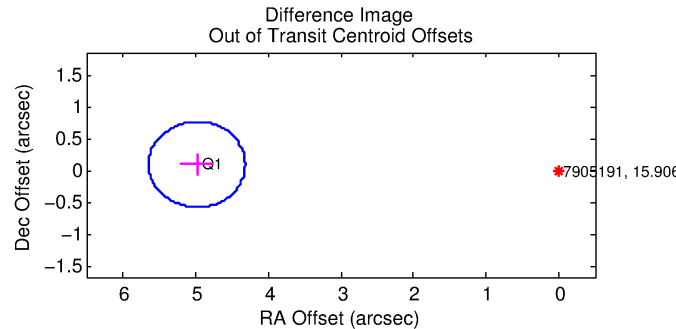
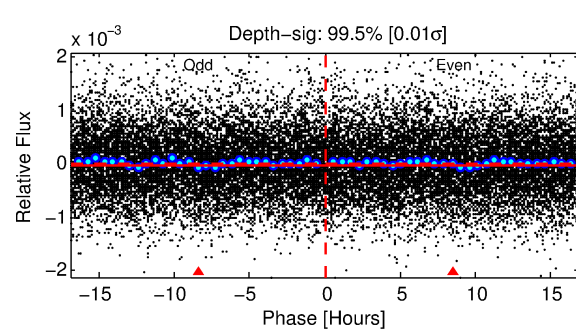
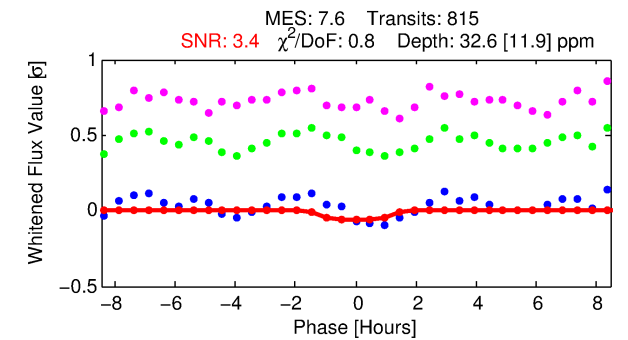
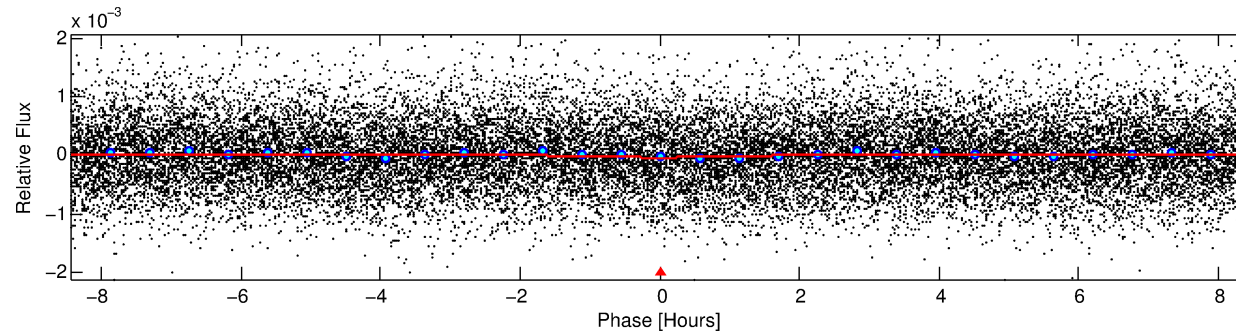
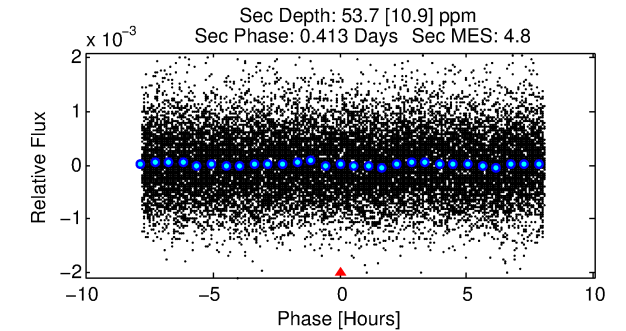
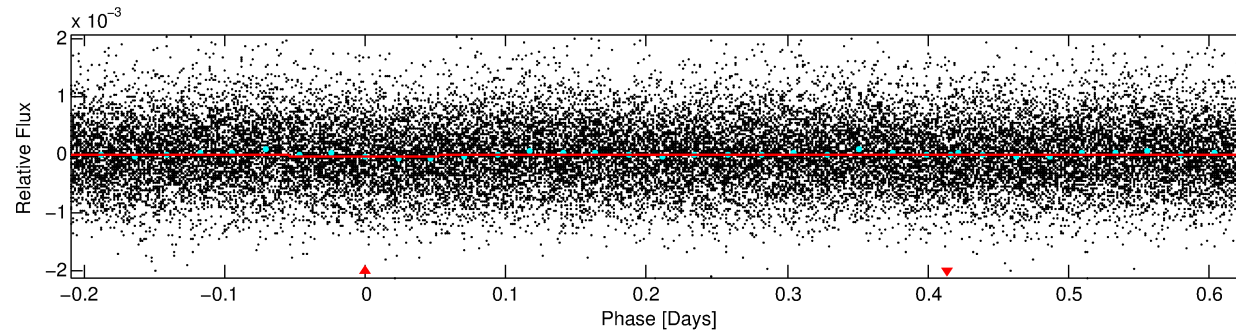
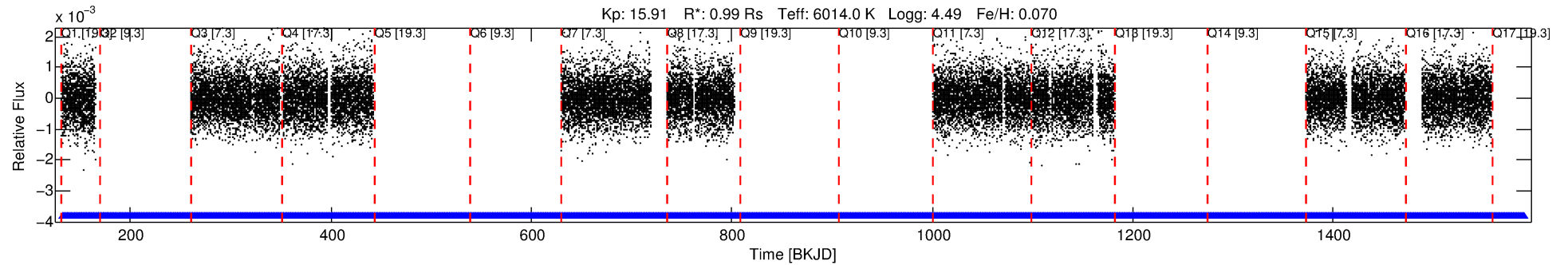
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007905191-01

No Significant Match Found

DV One-Page Summary

KIC: 7905191 Candidate: 1 of 1 Period: 0.838 d



DV Fit Results:

Period = 0.83810 [0.00003] d
Epoch = 131.9909 [0.0109] BKJD
Rp/R* = 0.0062 [0.0114]
a/R* = 1.38 [6.20]
b = 0.90 [1.98]
Seff = 3579.18 [1322.10]
Teq = 1972 [182] K
Rp = 0.67 [1.25] Re
a = 0.0180 [0.0041] AU
Ag = 21.10 [77.87] [0.26σ]
Teff = 6536 [6010] K [0.76σ]

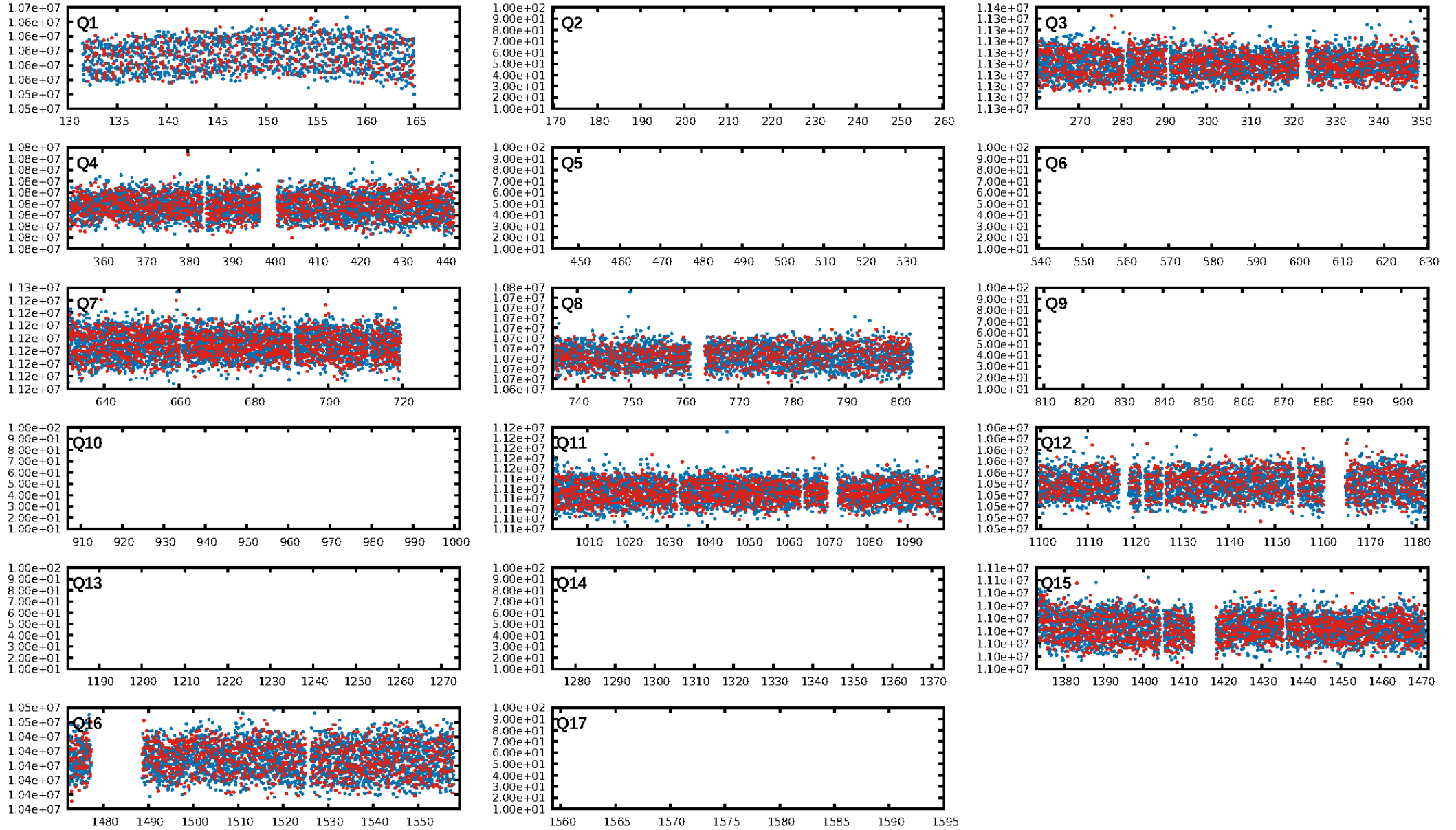
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: 8.68e-14
RollingBand-fgt: 1.00 [775/775]
GhostDiagnostic-chr: -0.4468
Centroid-sig: 49.1%
Centroid-so: 3.332 arcsec [0.73σ]
OotOffset-rm: 4.978 arcsec [22.42σ]
KicOffset-rm: 4.961 arcsec [22.34σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [9/9]

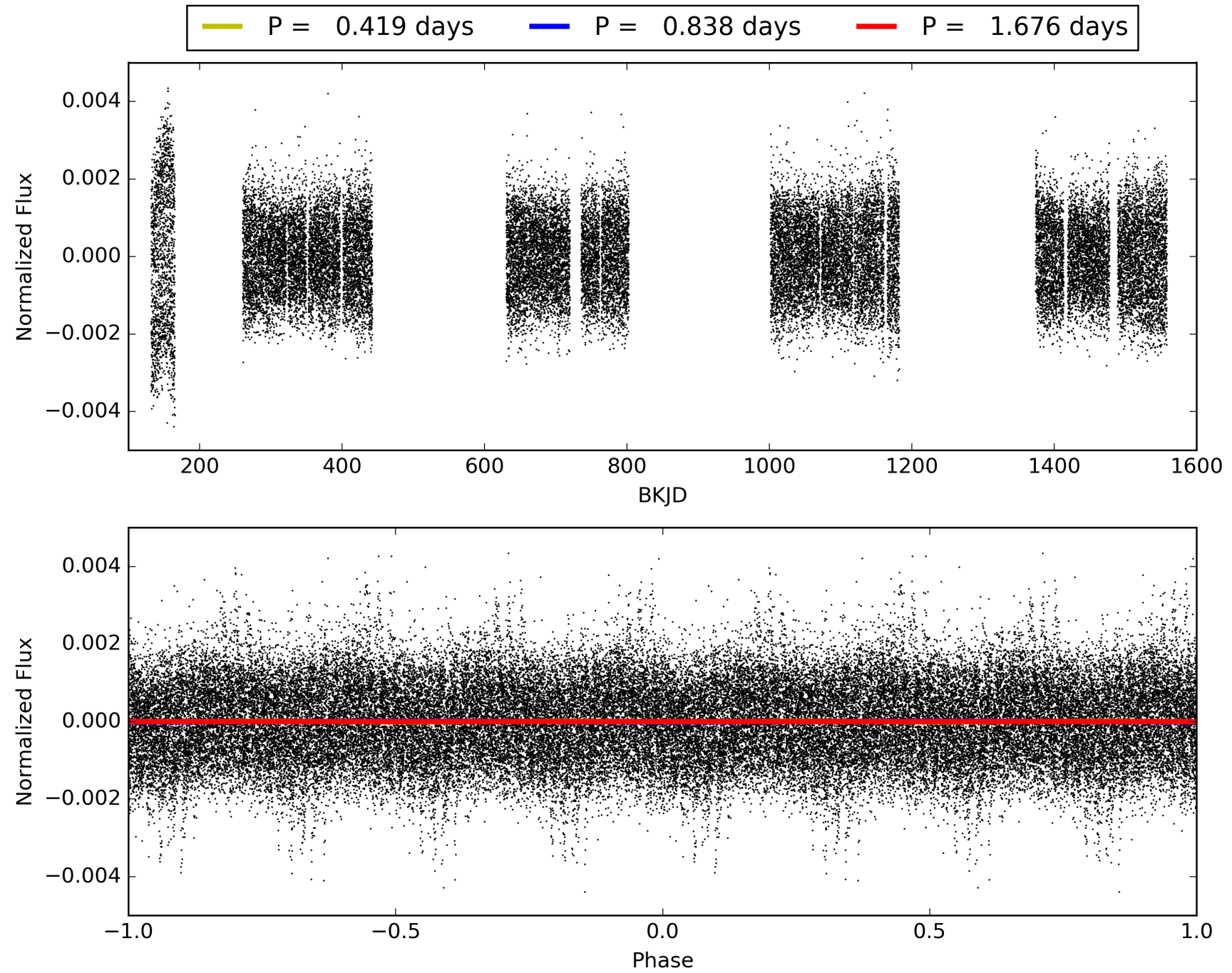
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:20:42 Z

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

TCE 007905191-01, PDC Light Curves

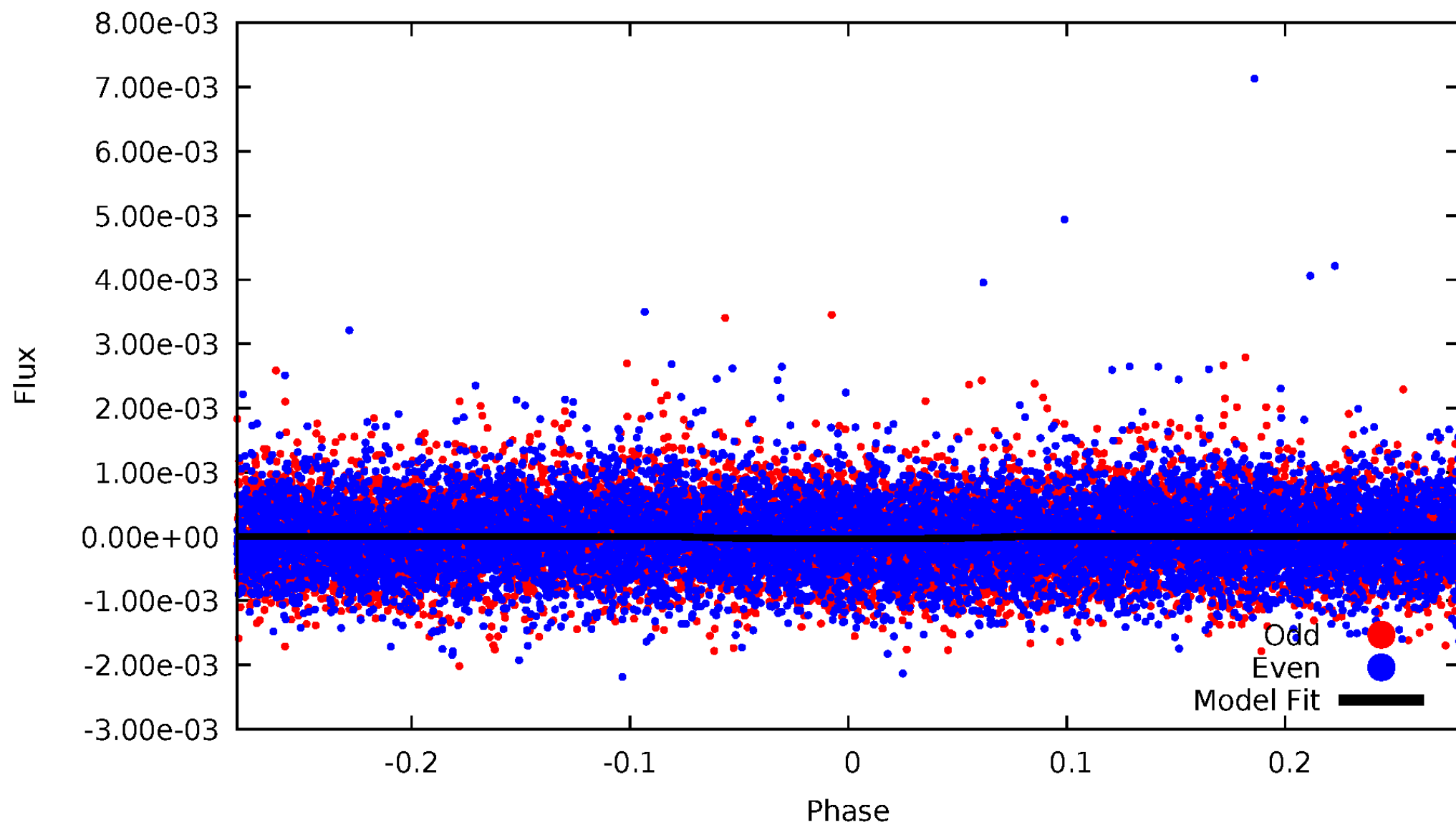


TCE 007905191-01



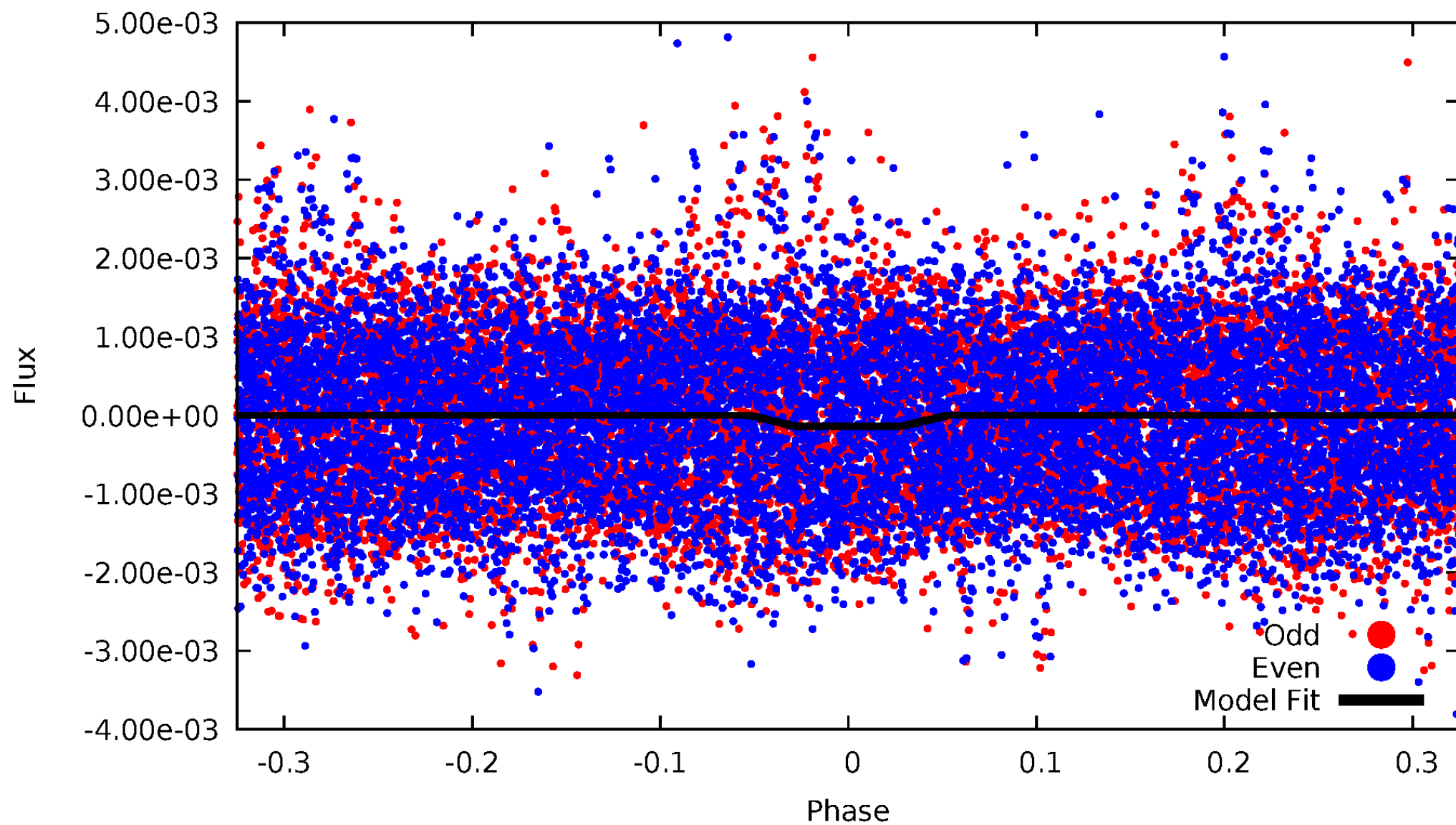
DV Odd/Even

TCE 007905191-01

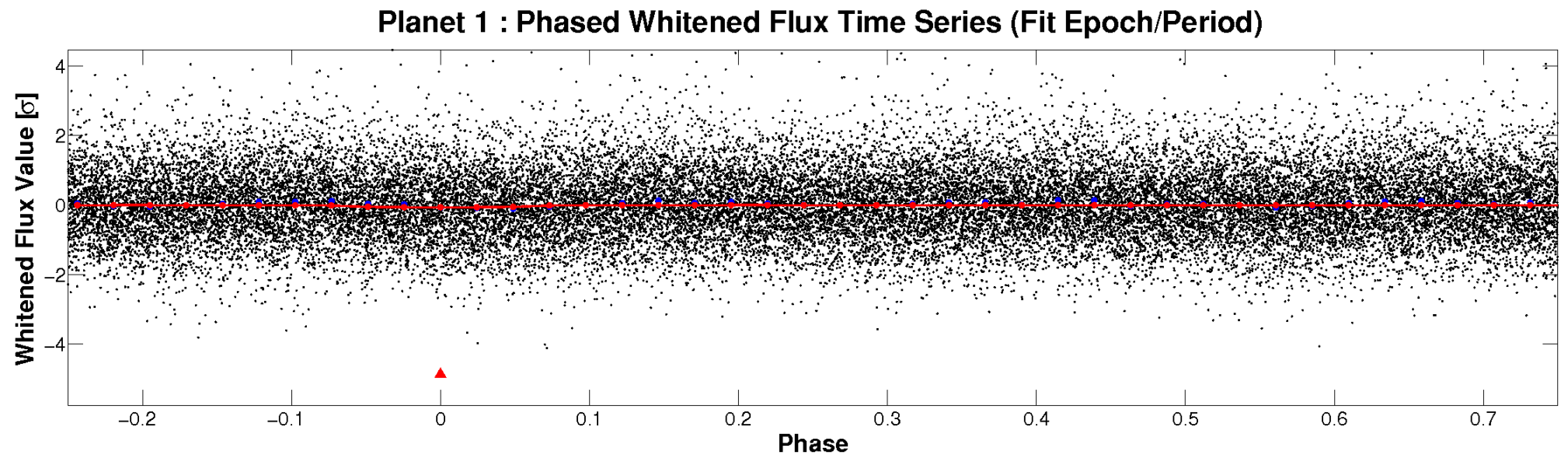
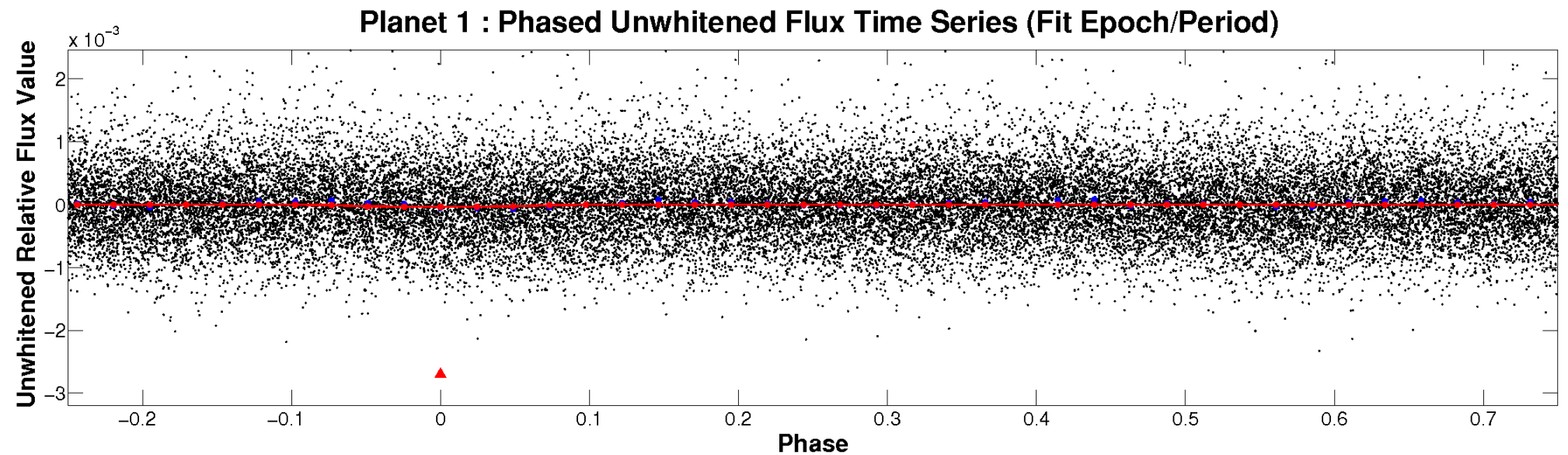


ALT Odd/Even

TCE 007905191-01

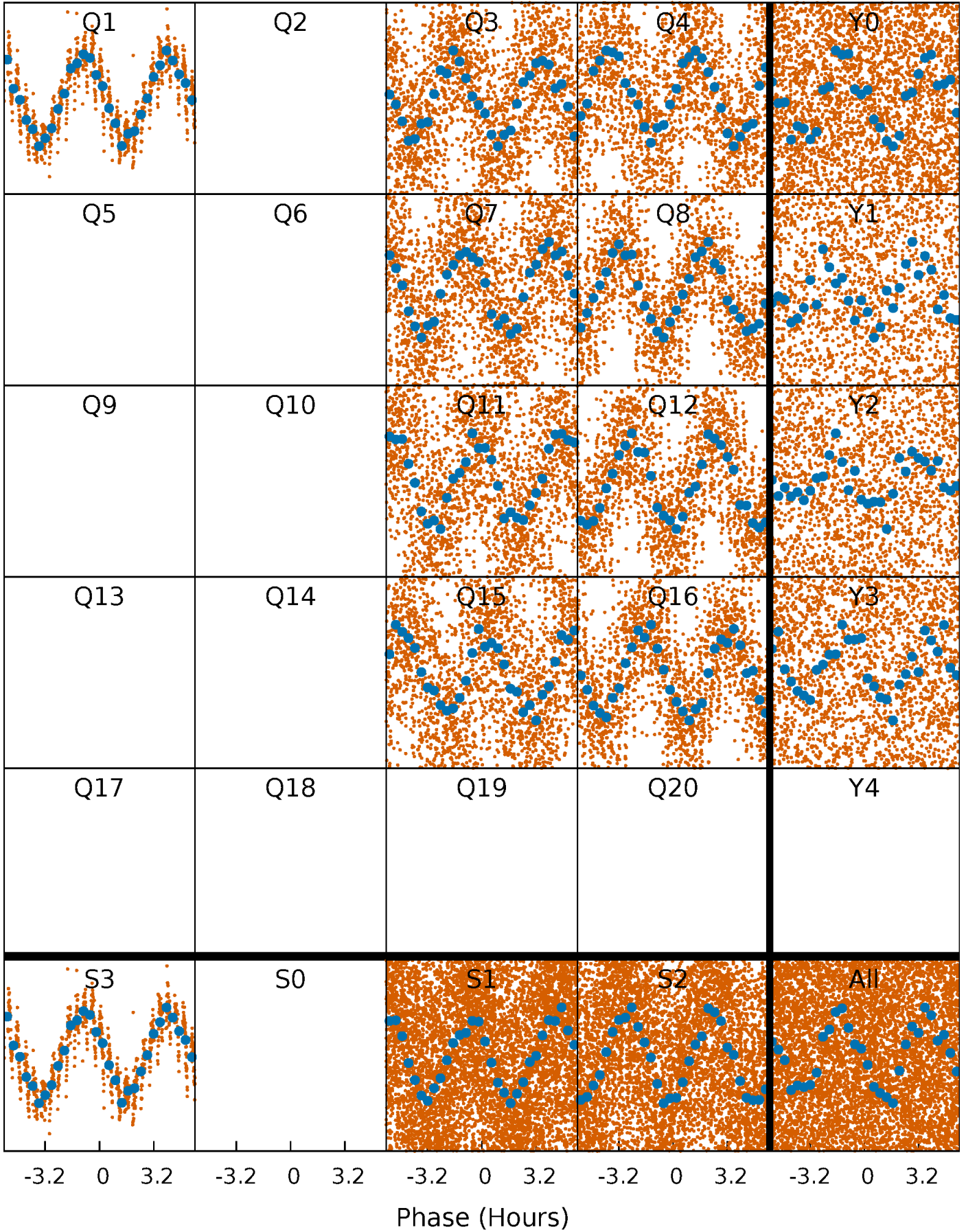


Non-Whitened Vs. Whitened Light Curve



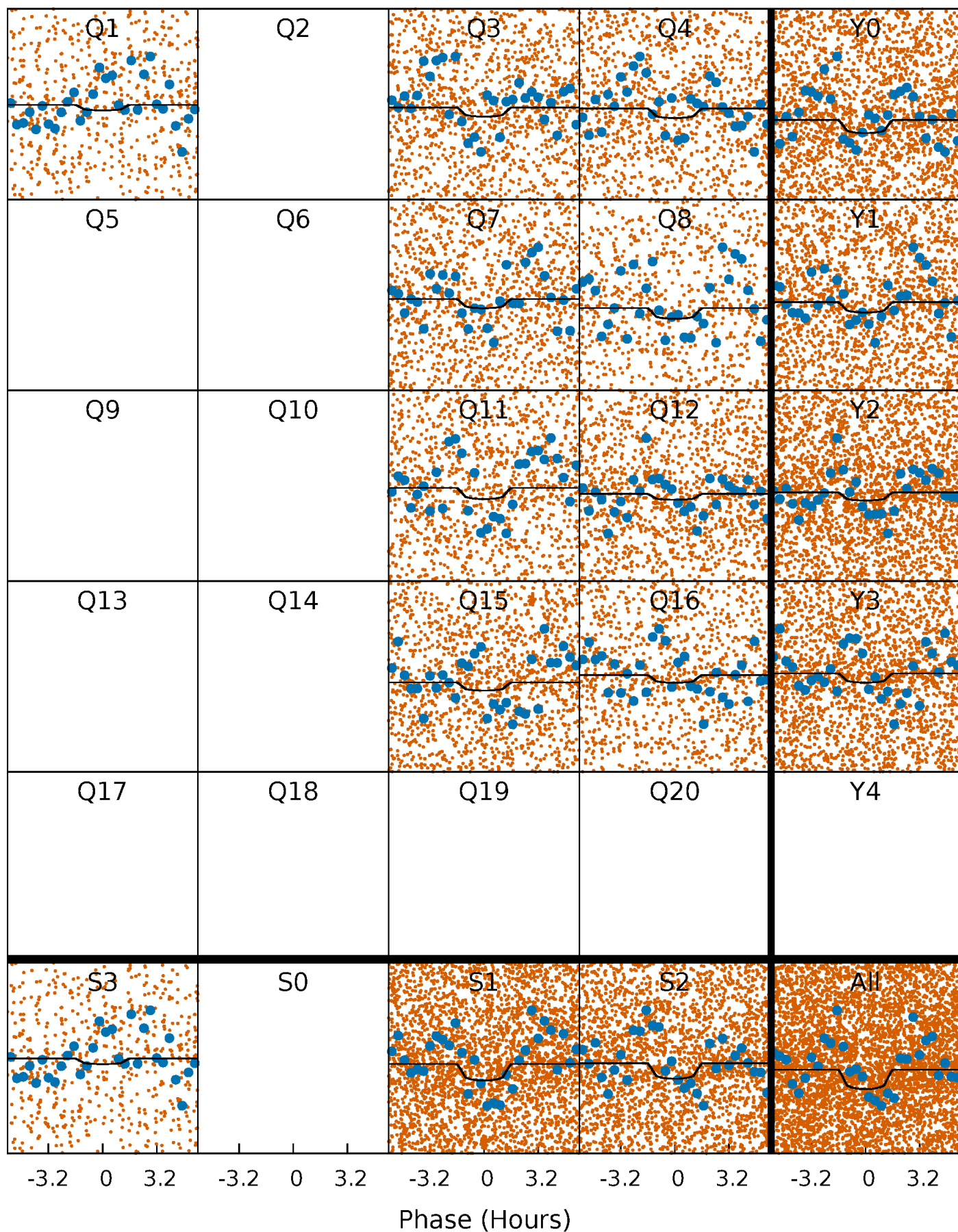
PDC Quarter-Phased Transit Curves

TCE 007905191-01 P= 0.838105 Days $T_0=131.990933$ (BKJD)



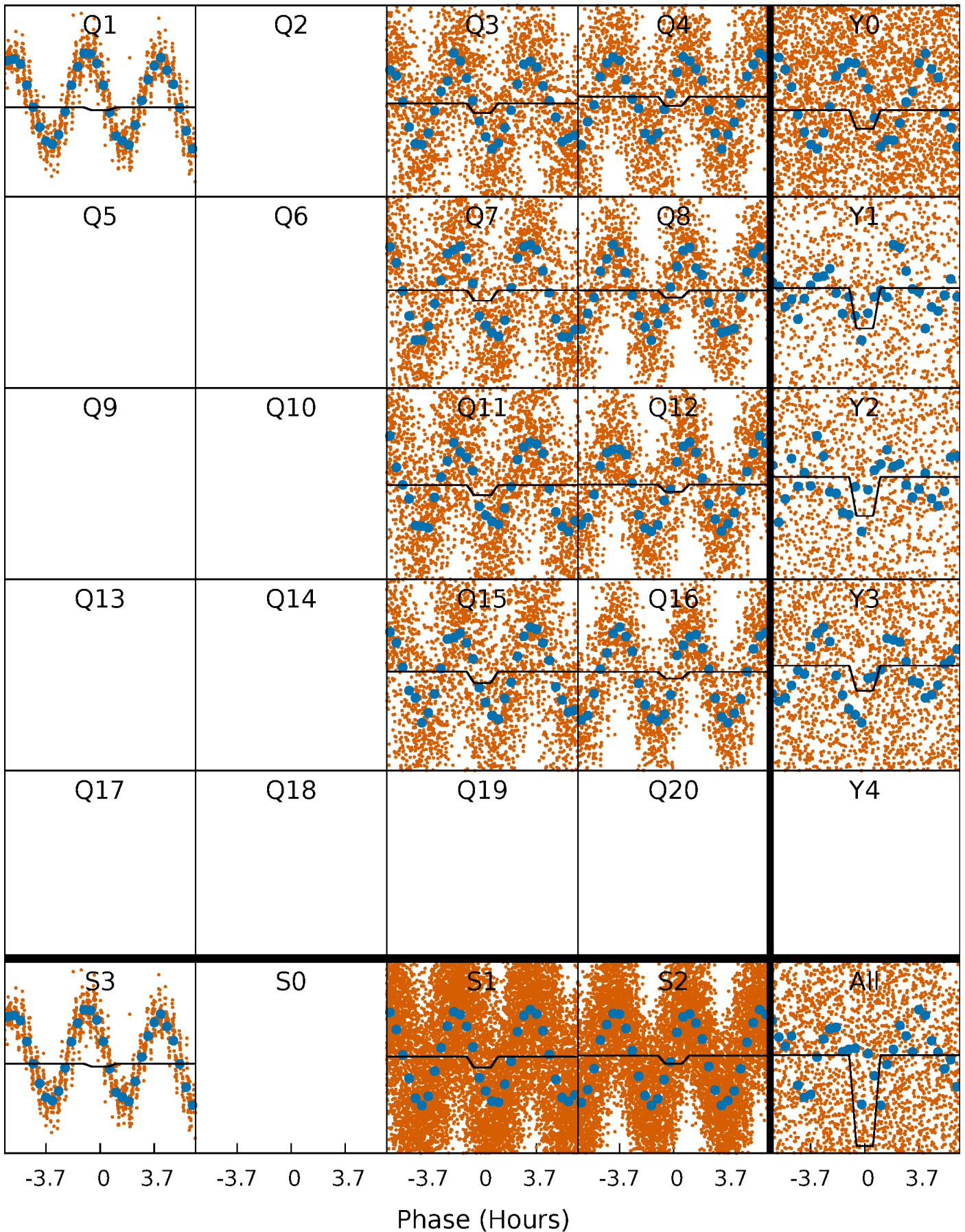
DV Quarter-Phased Transit Curves

TCE 007905191-01 P= 0.838105 Days $T_0=131.990933$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

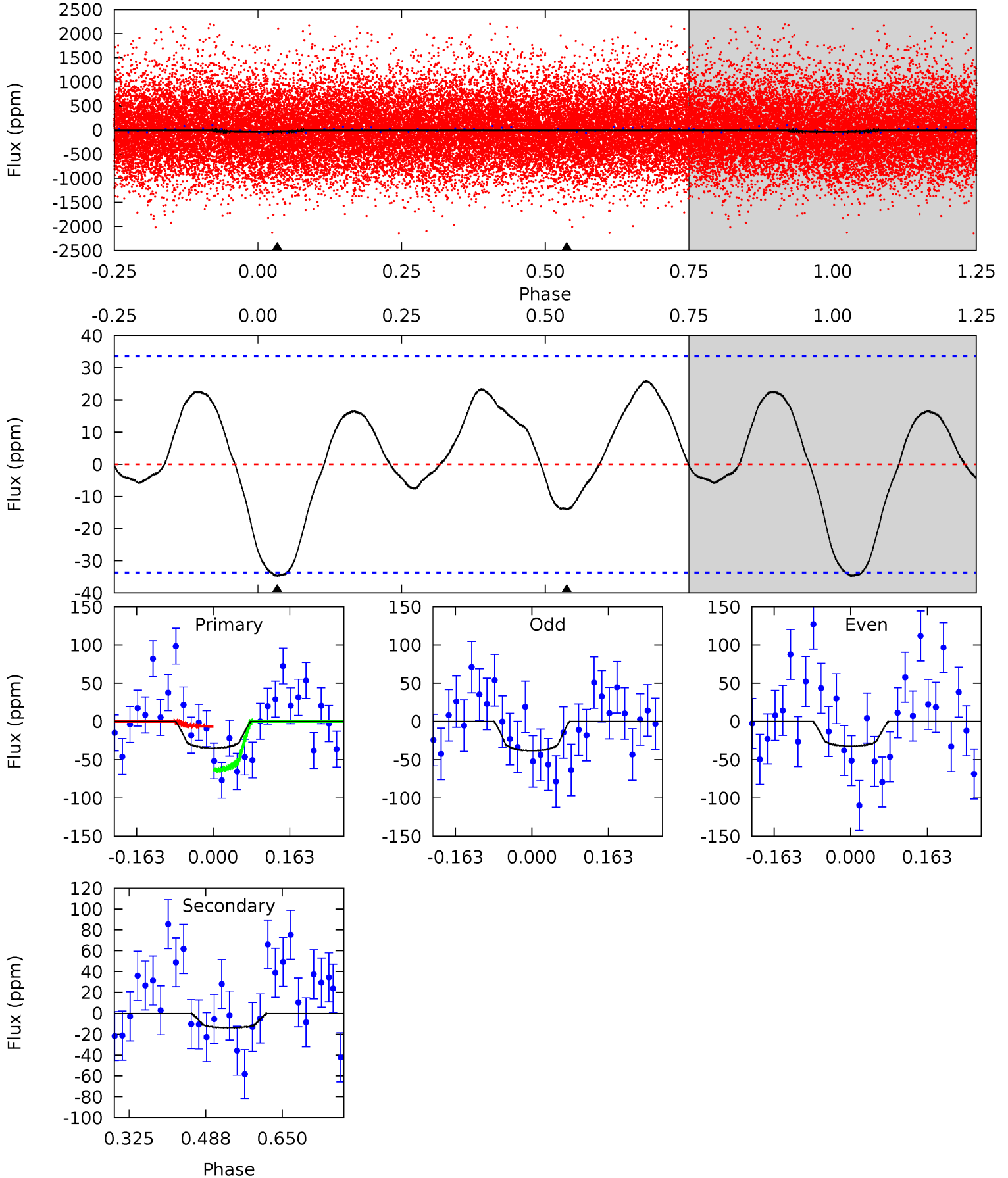
TCE 007905191-01 P= 0.838161 Days $T_0=131.987515$ (BKJD)



DV Model-Shift Uniqueness Test

007905191-01, P = 0.838105 Days, E = 131.152828 Days

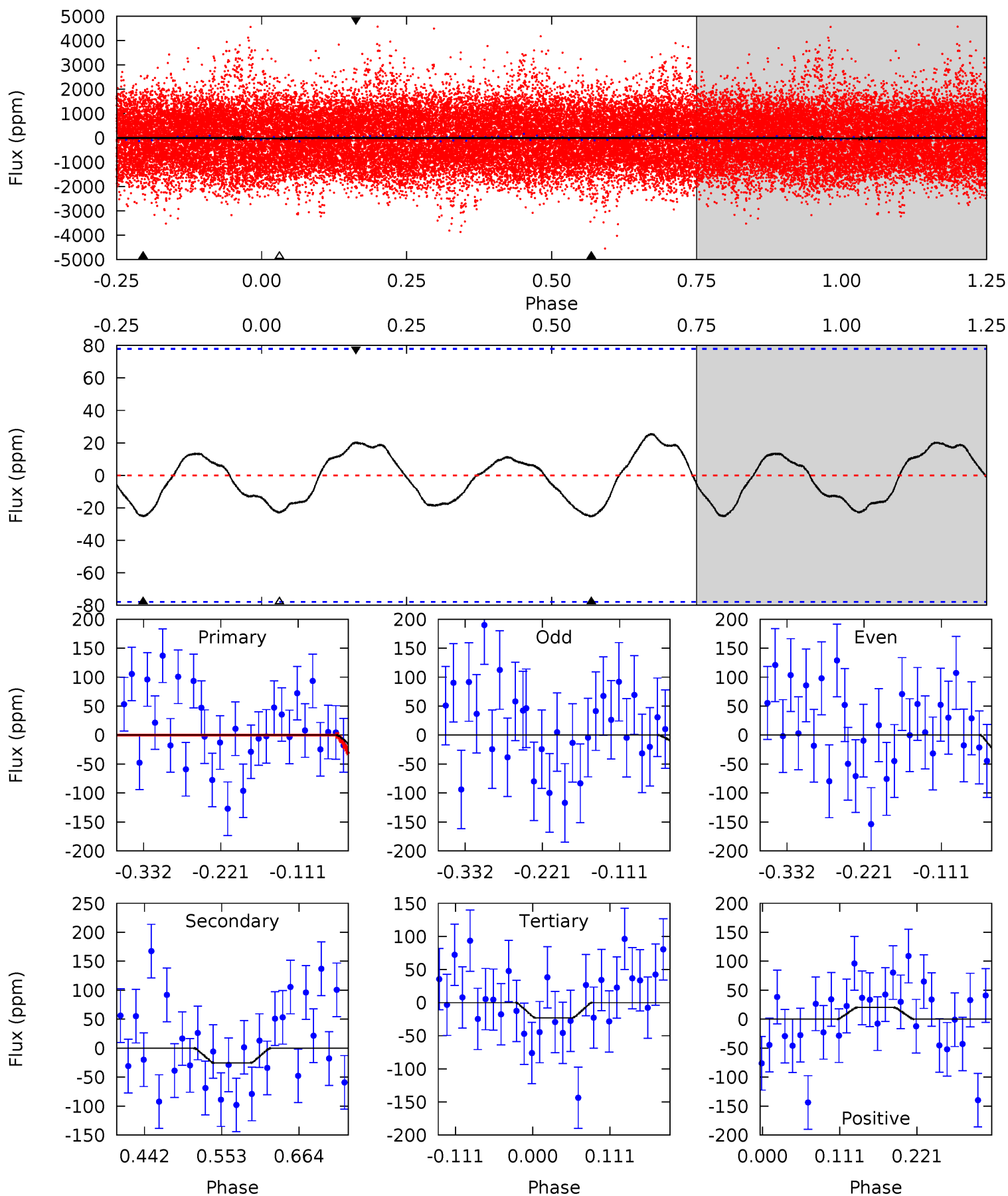
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.60	1.85	0	0	4.46	1.40	1.03	4.60	4.60	1.85	1.85	0.40	0.70	0.43	3.83



Alt Model-Shift Uniqueness Test

007905191-01, P = 0.838161 Days, E = 131.149354 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.47	1.47	1.34	1.18	4.54	1.60	0.77	0.13	0.29	0.14	0.29	0.67	4.54	0.50	1.37



Stellar Parameters For KIC 007905191

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6014^{+190}_{-232}	$4.486^{+0.046}_{-0.184}$	$0.070^{+0.250}_{-0.350}$	$0.993^{+0.270}_{-0.108}$	$1.101^{+0.120}_{-0.160}$	$1.584^{+0.386}_{-0.759}$
	+3%/-4%	+1%/-4%	+357%/-500%	+27%/-11%	+11%/-15%	+24%/-48%
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 007905191-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-14 ± 8	$1.20^{+1.09}_{-0.82}$	2808^{+182}_{-141}	3688^{+2569}_{-1631}	$1.548^{+14.993}_{-1.233}$
Alt.	-25 ± 17	$1.47^{+1.22}_{-0.90}$	2808^{+190}_{-148}	3793^{+1898}_{-1957}	$1.710^{+8.937}_{-1.405}$

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 $A_{obs} \gg 1.0$

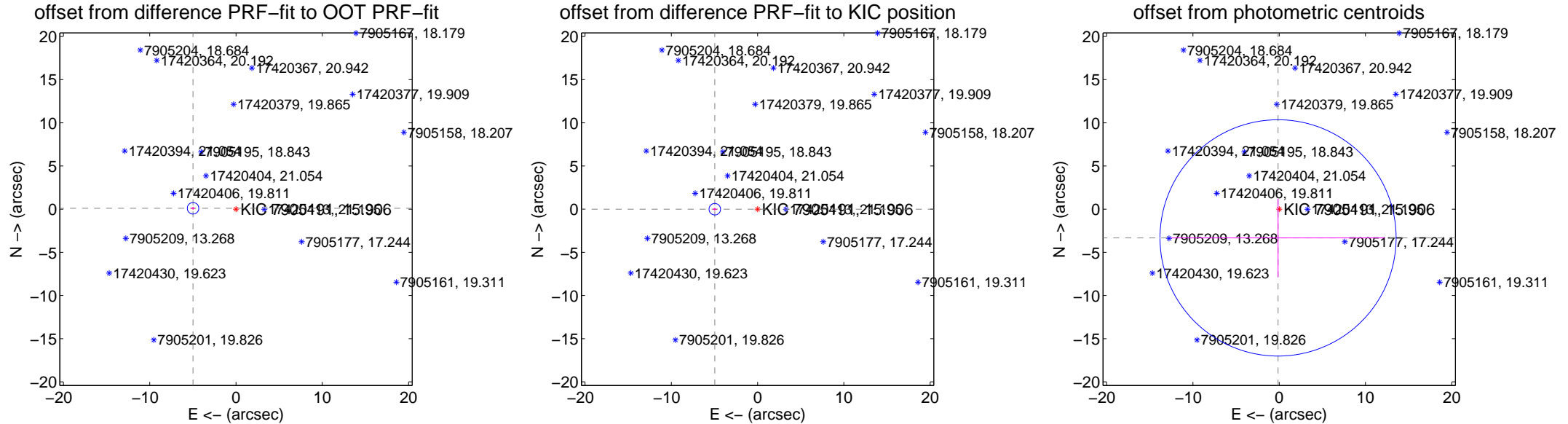
DV Centroid Data

Supplemental centroid analysis for 007905191-01. Kepler magnitude: 15.91. Transit SNR 3.44

There are 0 quarters with good PRF difference image offsets

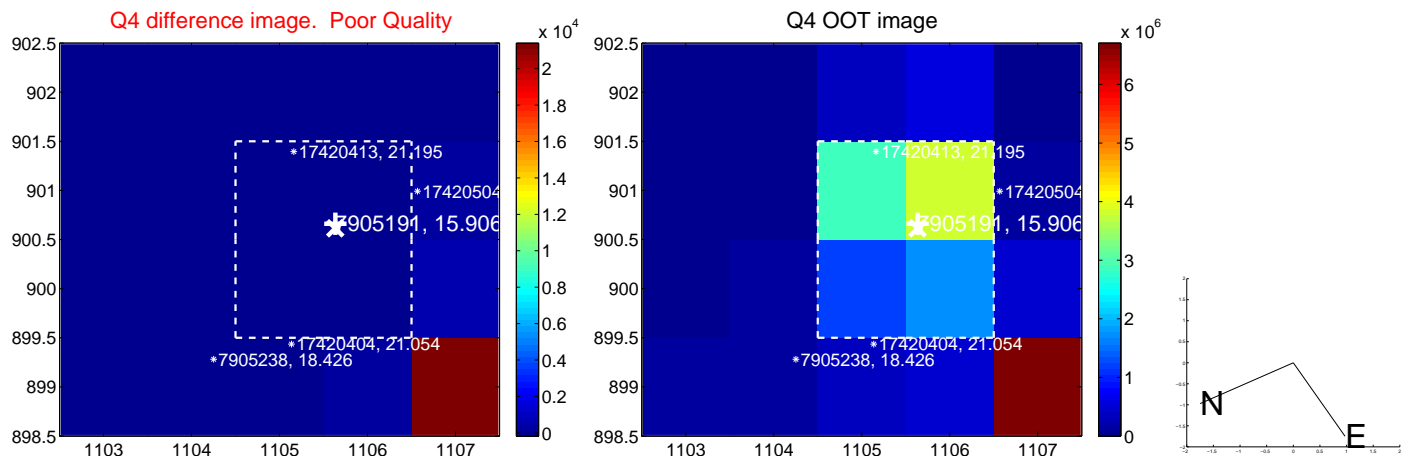
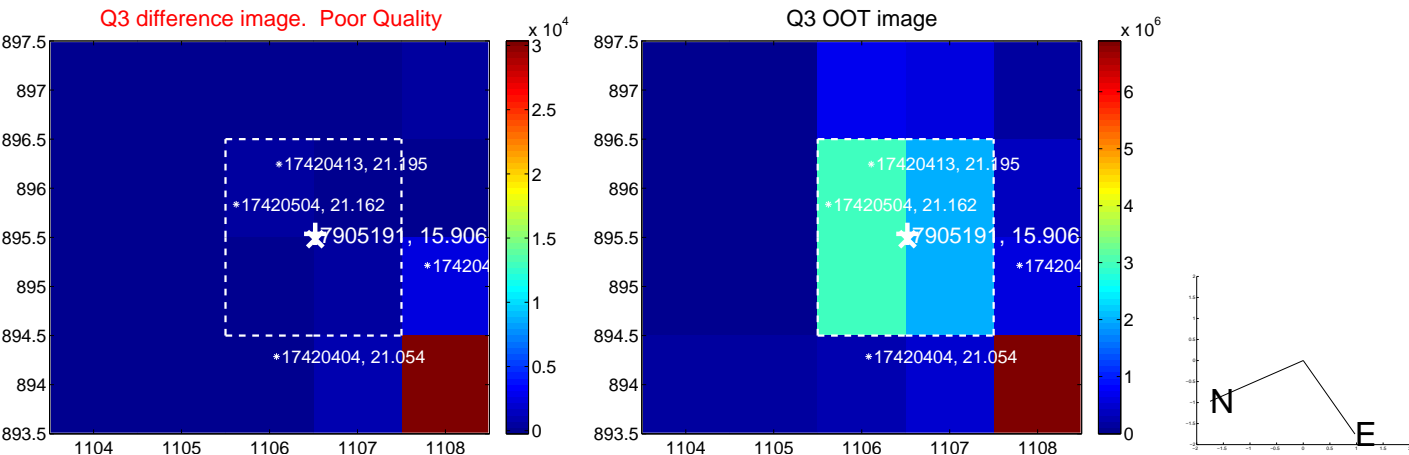
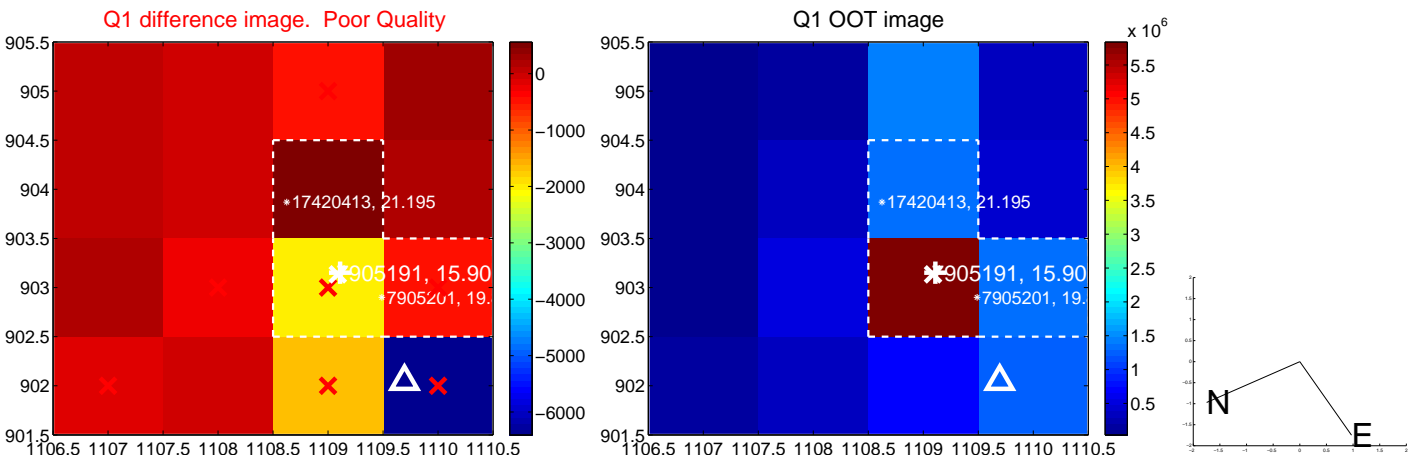
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.978 ± 0.222	22.42	4.977 ± 0.222	0.101 ± 0.156
PRF-fit source offset from KIC position	4.961 ± 0.222	22.34	4.961 ± 0.222	-0.007 ± 0.156
photometric centroid source offset	3.33 ± 4.56	0.73	0.13 ± 12.40	-3.33 ± 4.54

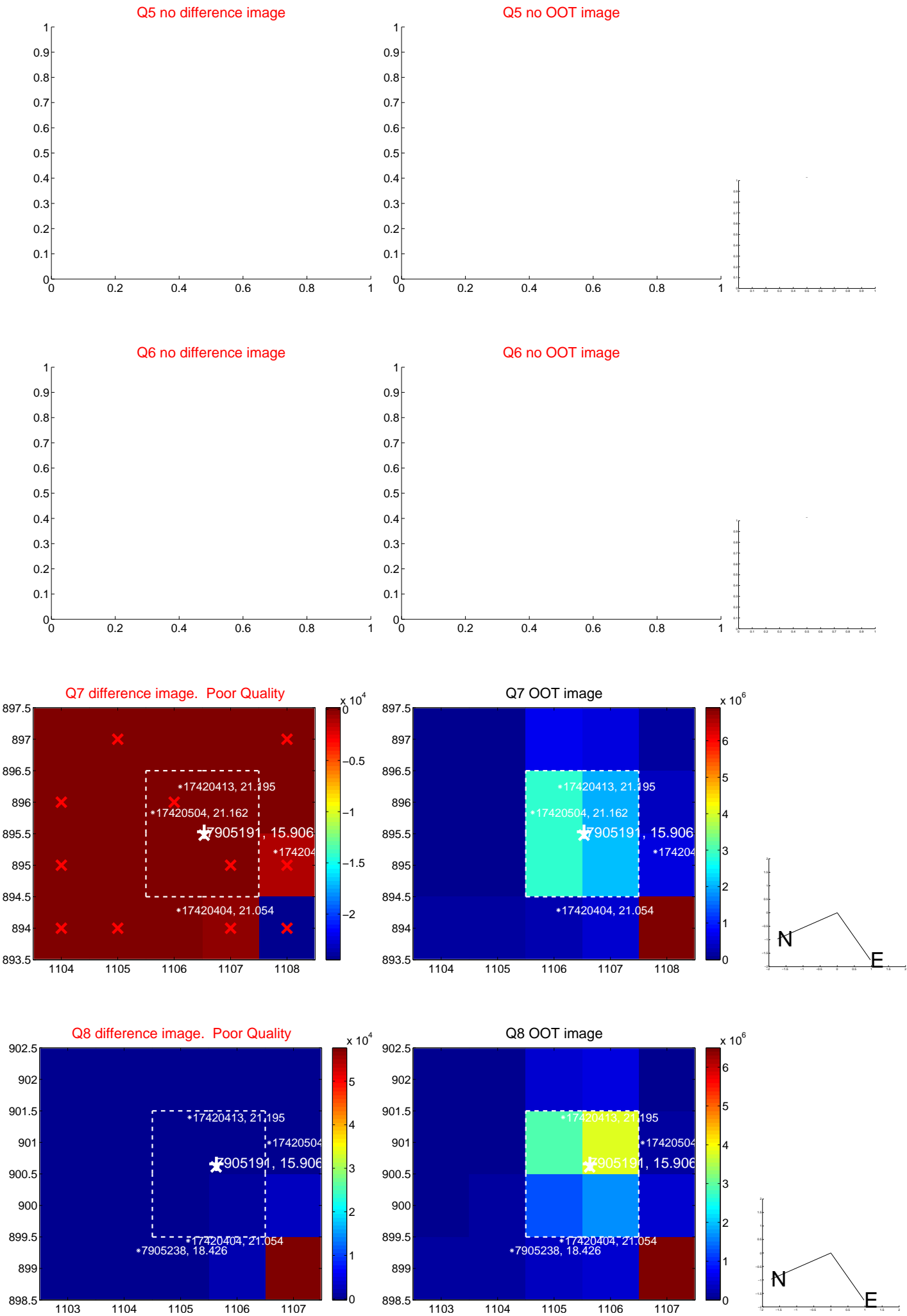


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

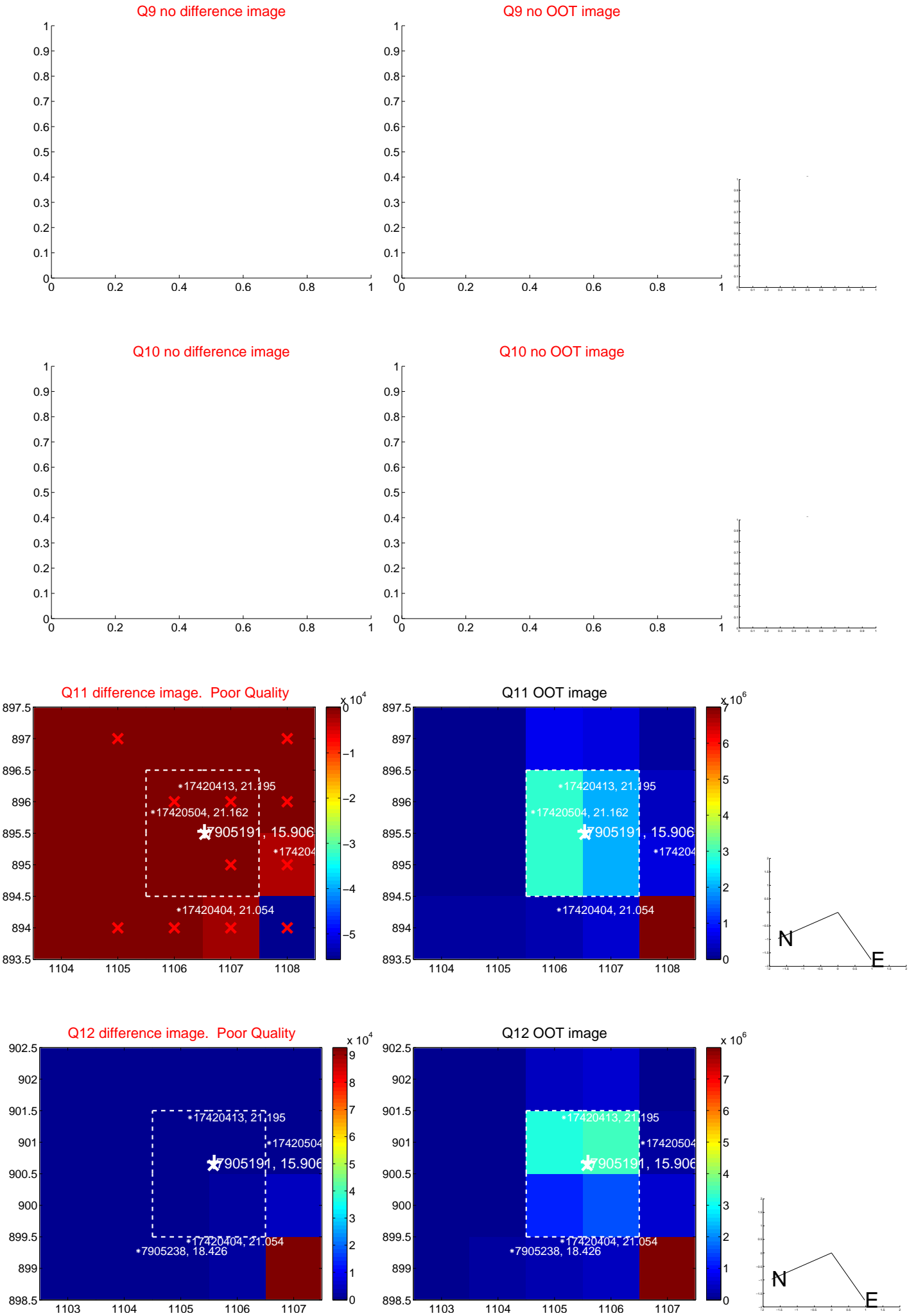
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



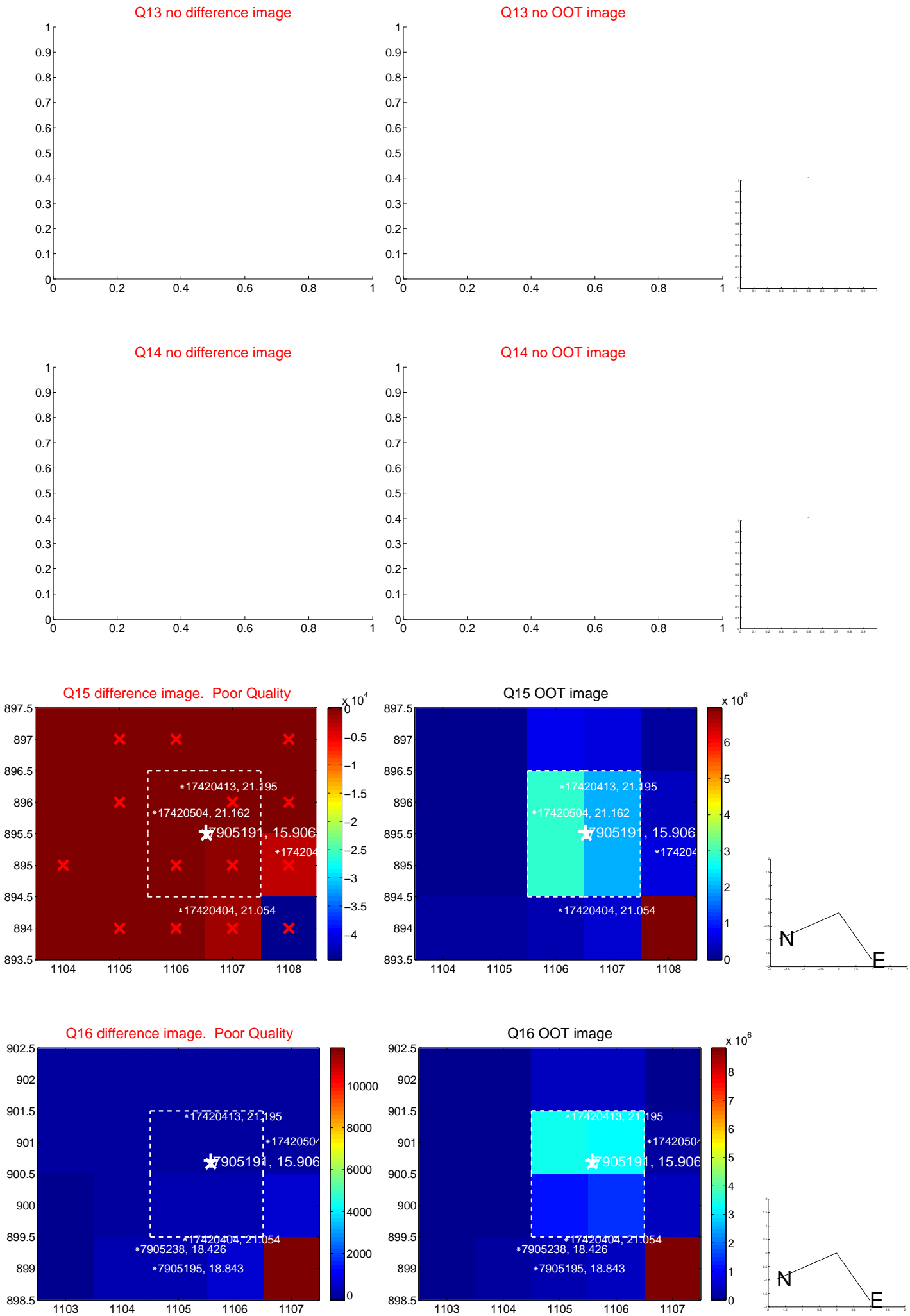
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



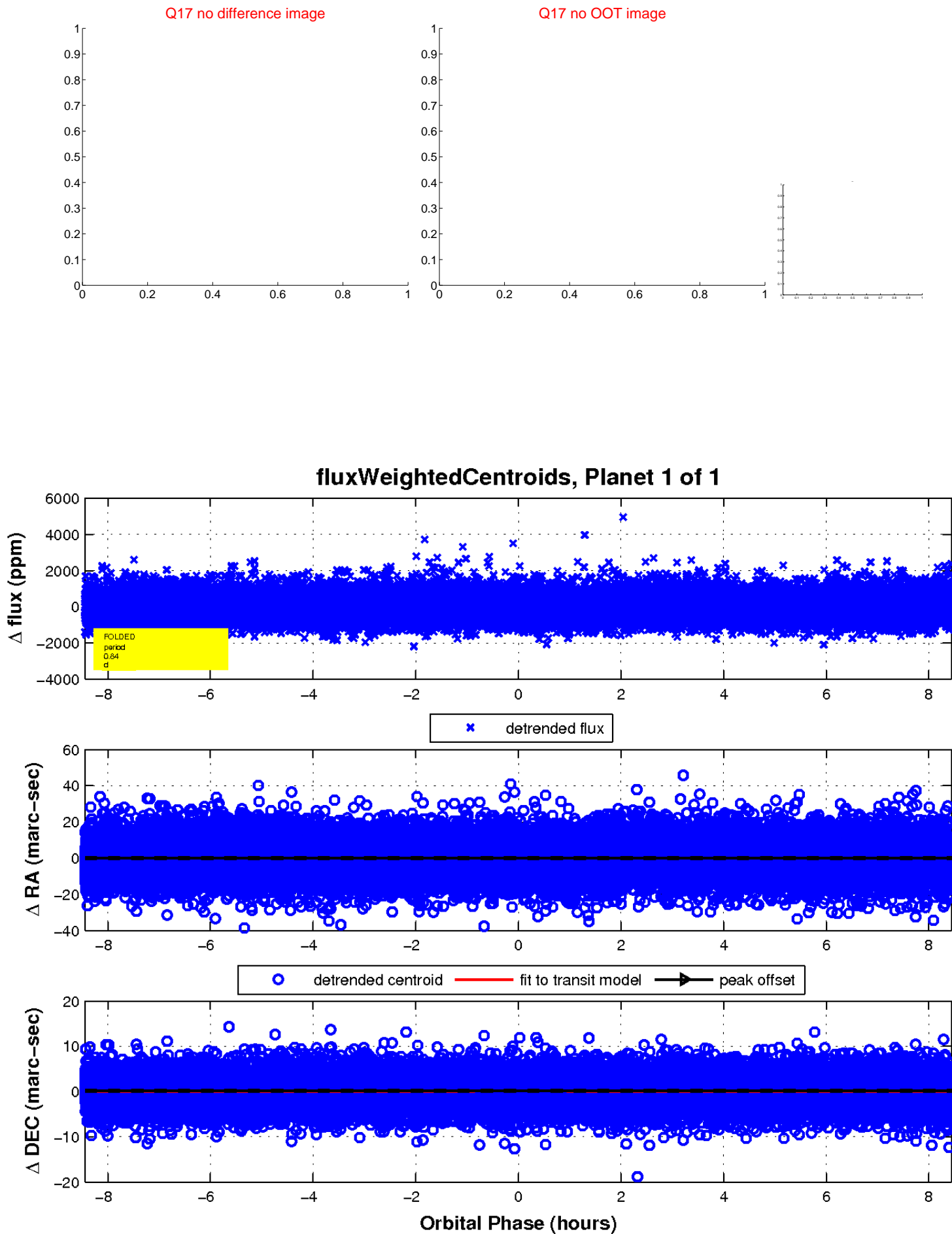
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

