

KIC 008891195

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})
008891195-01	OBS	No	161.481046	188.062364	126.4	13.119	7.9	6.3	2.87	5125	3.89	14.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008891195-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_UNCERTAIN

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

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

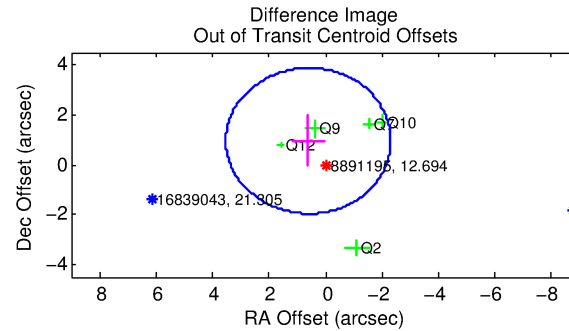
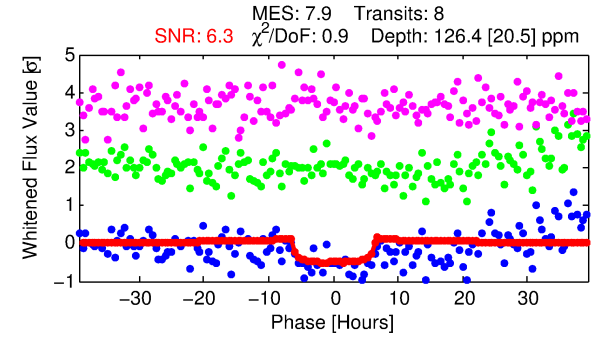
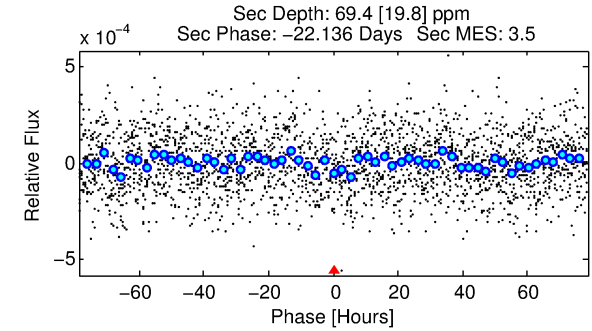
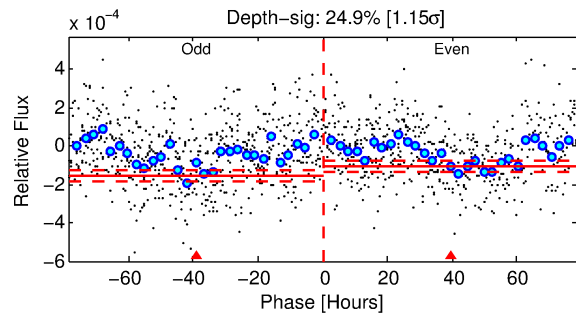
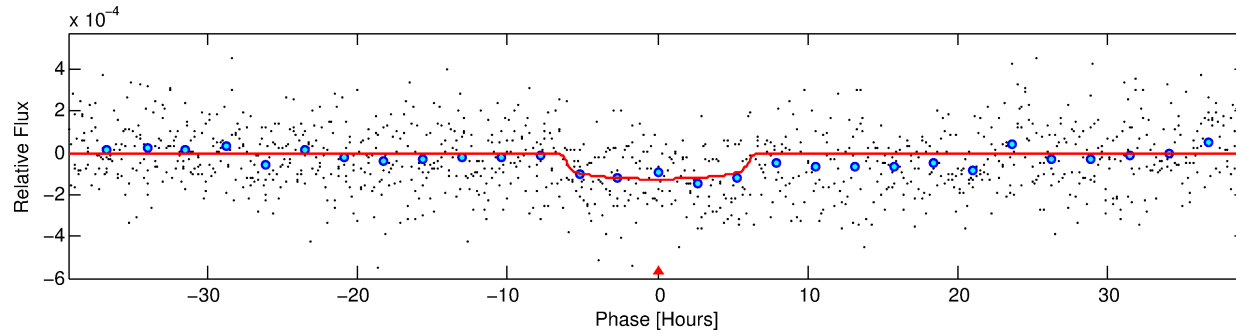
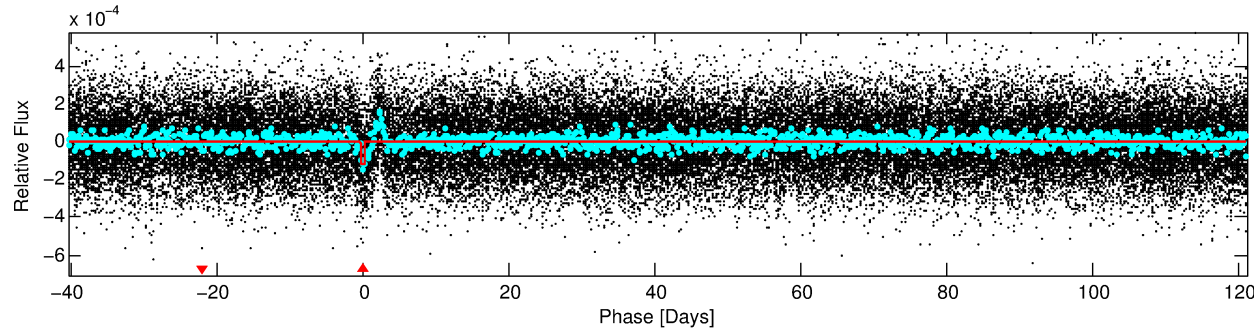
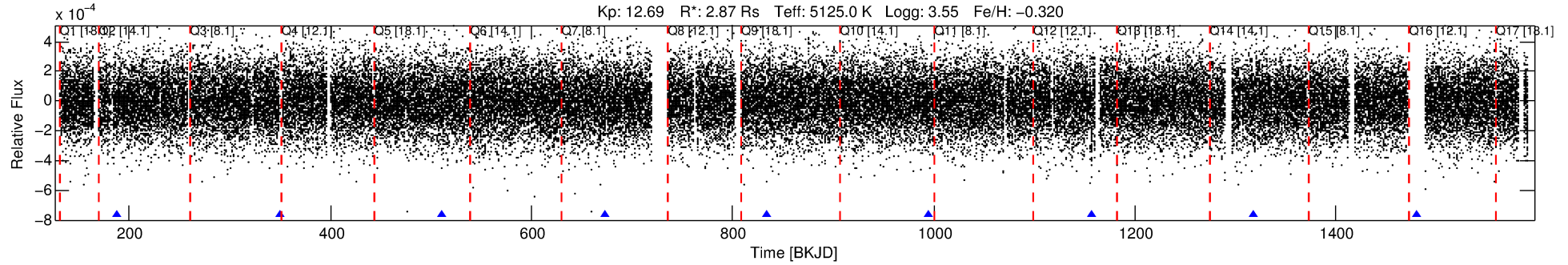
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008891195-01

No Significant Match Found

DV One-Page Summary

KIC: 8891195 Candidate: 1 of 1 Period: 161.481 d



DV Fit Results:

Period = 161.48105 [0.00567] d
Epoch = 188.0624 [0.0249] BKJD
Rp/R* = 0.0124 [0.0029]
a/R* = 43.65 [40.26]
b = 0.90 [0.20]
Seff = 14.51 [4.95]
Teq = 498 [42] K
Rp = 3.89 [1.36] Re
a = 0.5927 [0.1329] AU
Ag = 886.79 [562.92] [1.57 σ]
Teff = 4199 [578] K [6.39 σ]

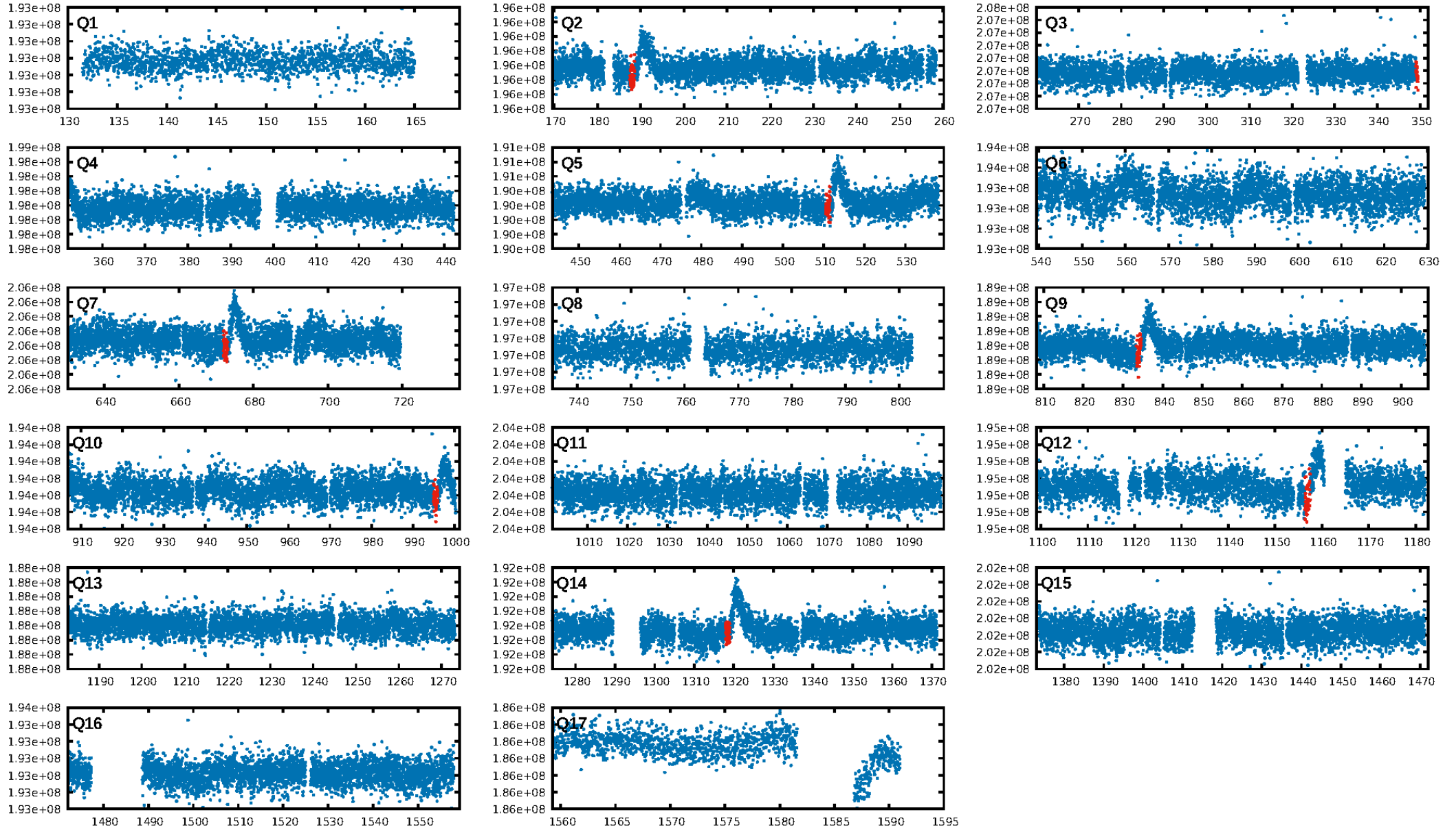
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 26.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.05e-14
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: 2.645
Centroid-sig: 72.9%
Centroid-so: 0.590 arcsec [0.61 σ]
OotOffset-rm: 1.131 arcsec [1.16 σ]
KicOffset-rm: 1.077 arcsec [1.28 σ]
OotOffset-st: 2/1/1/1 [5]
KicOffset-st: 2/1/1/1 [5]
DiffImageQuality-fgm: 0.60 [3/5]
DiffImageOverlap-fno: 1.00 [7/7]

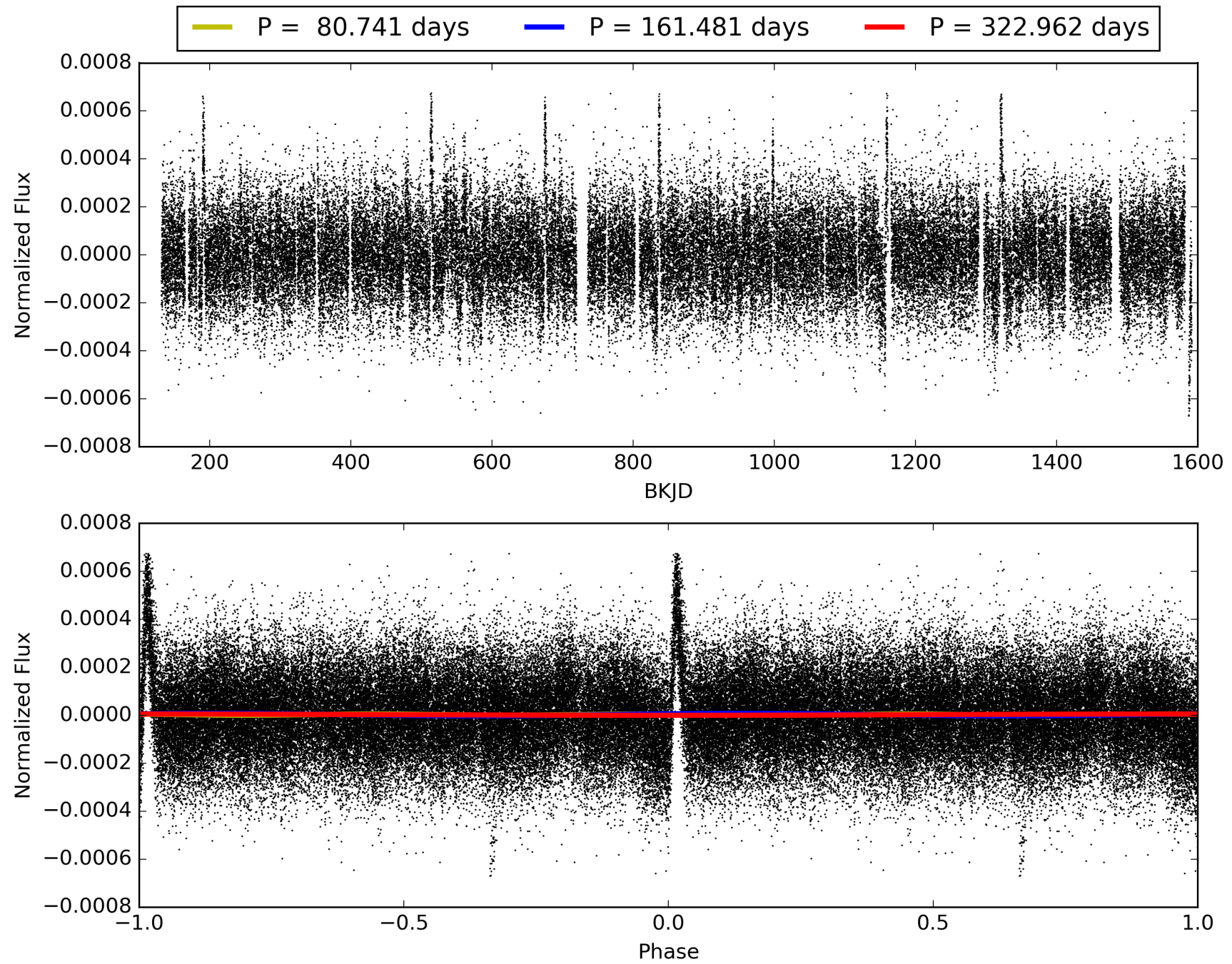
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 13:19:42 Z

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

TCE 008891195-01, PDC Light Curves

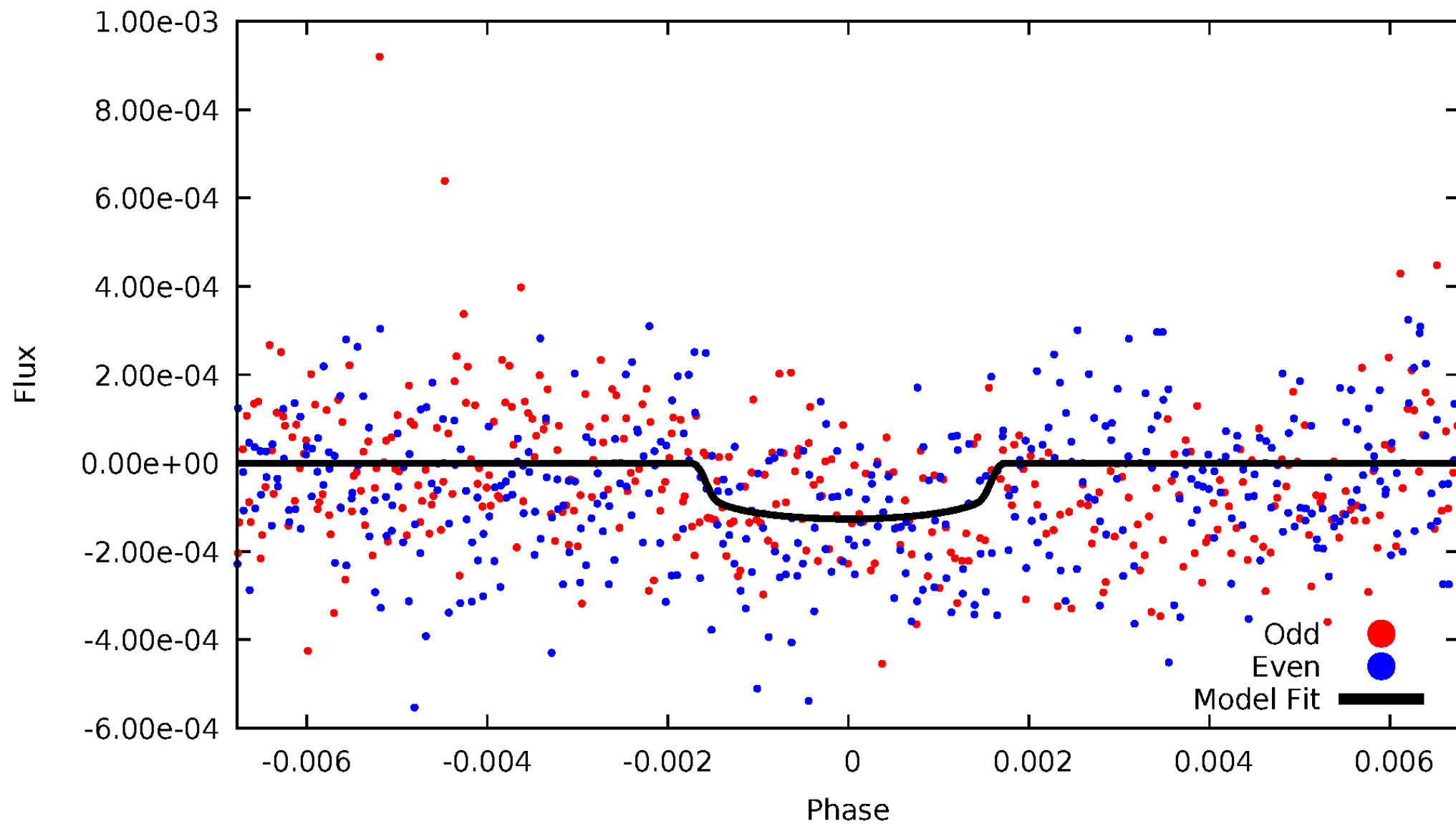


TCE 008891195-01



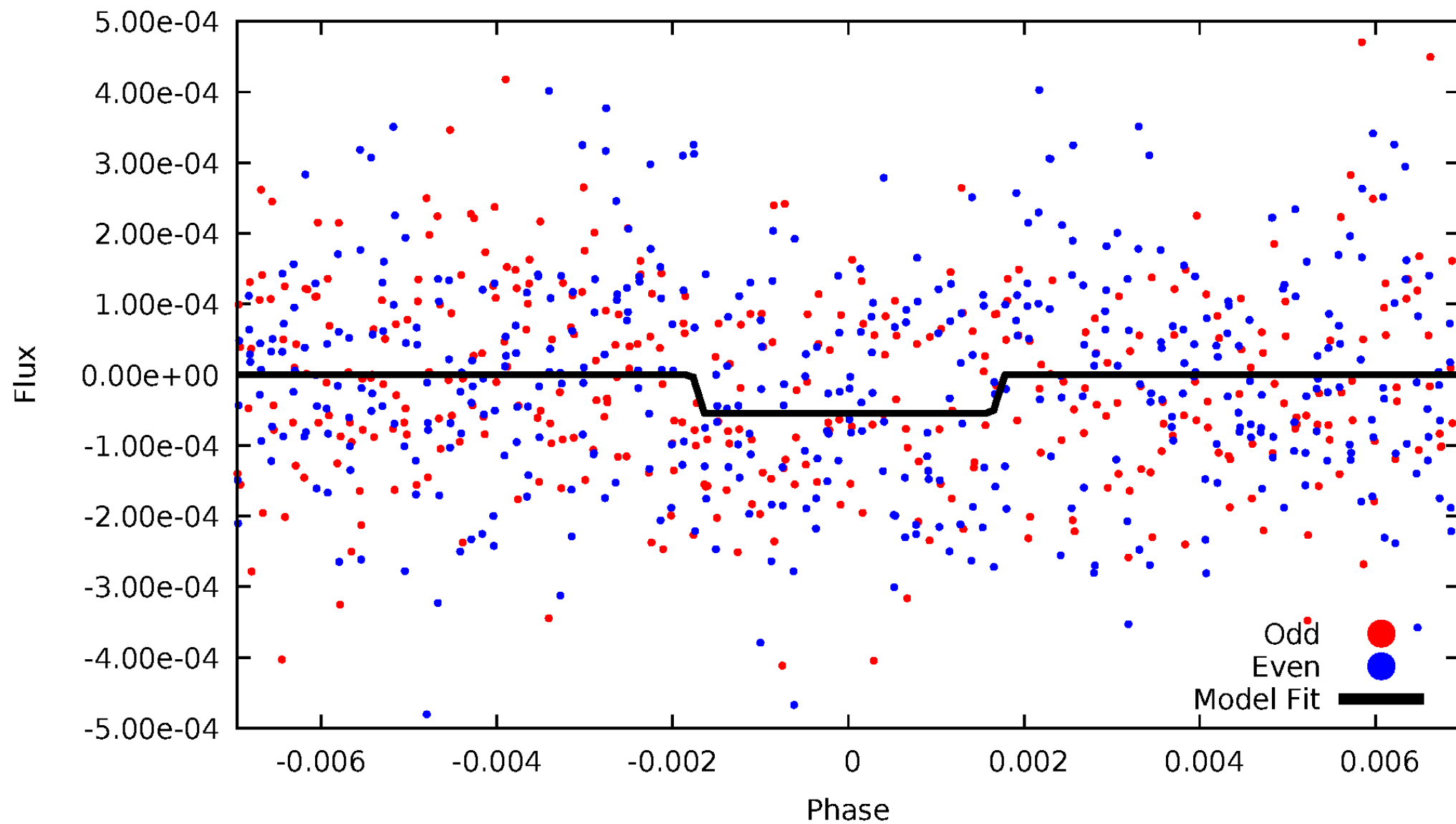
DV Odd/Even

TCE 008891195-01

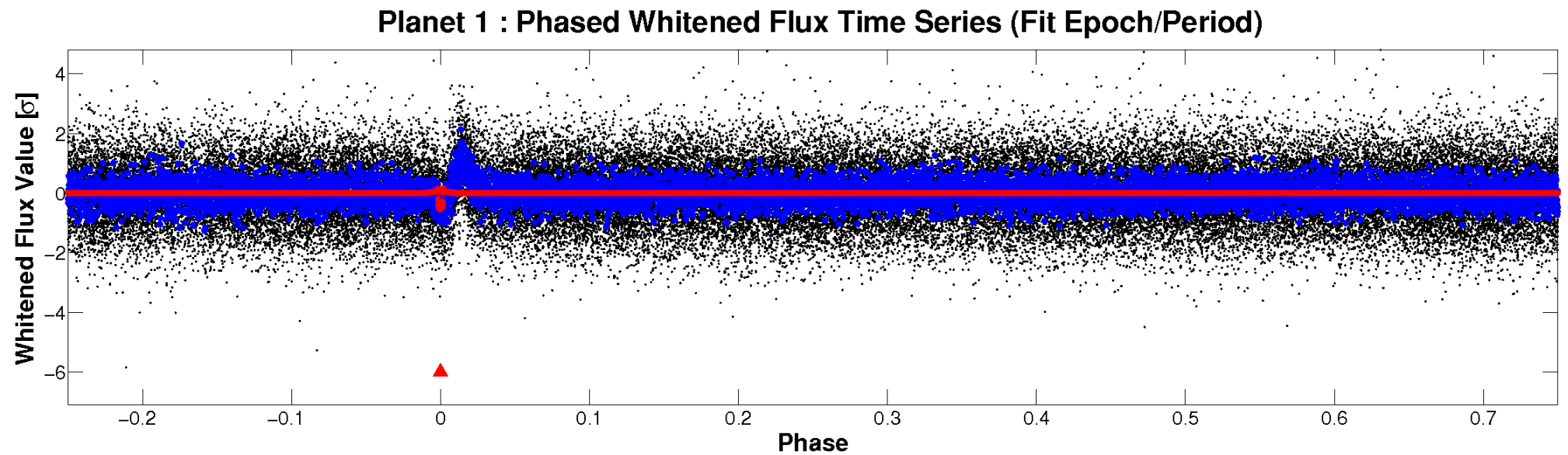
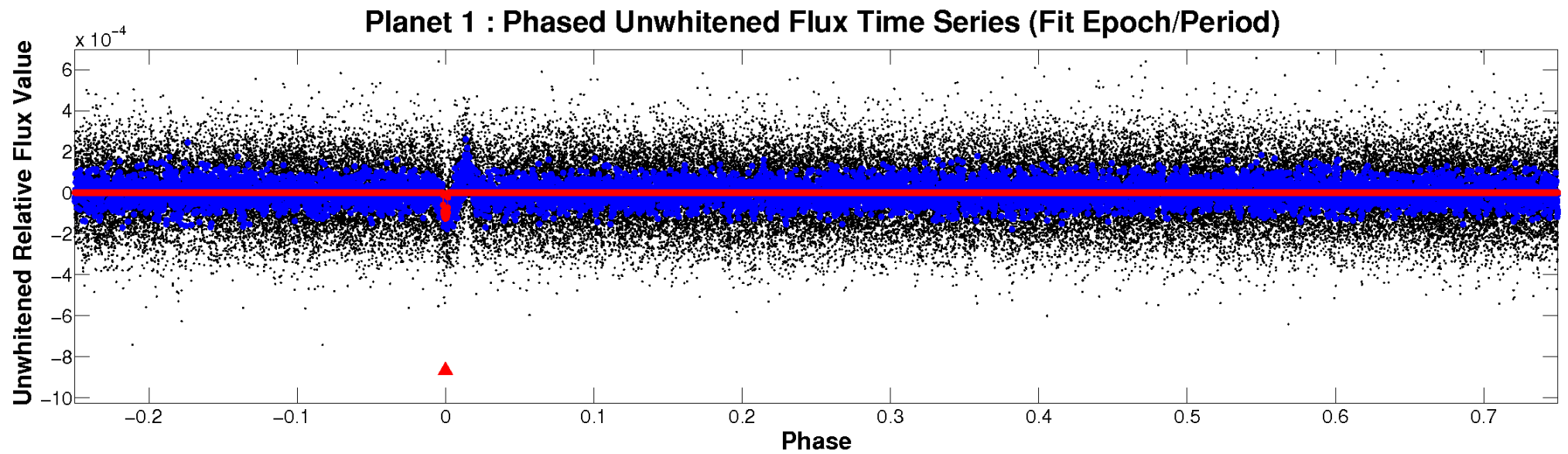


ALT Odd/Even

TCE 008891195-01



Non-Whitened Vs. Whitened Light Curve



PDC Quarter-Phased Transit Curves

TCE 008891195-01 P=161.481046 Days $T_0=188.062364$ (BKJD)



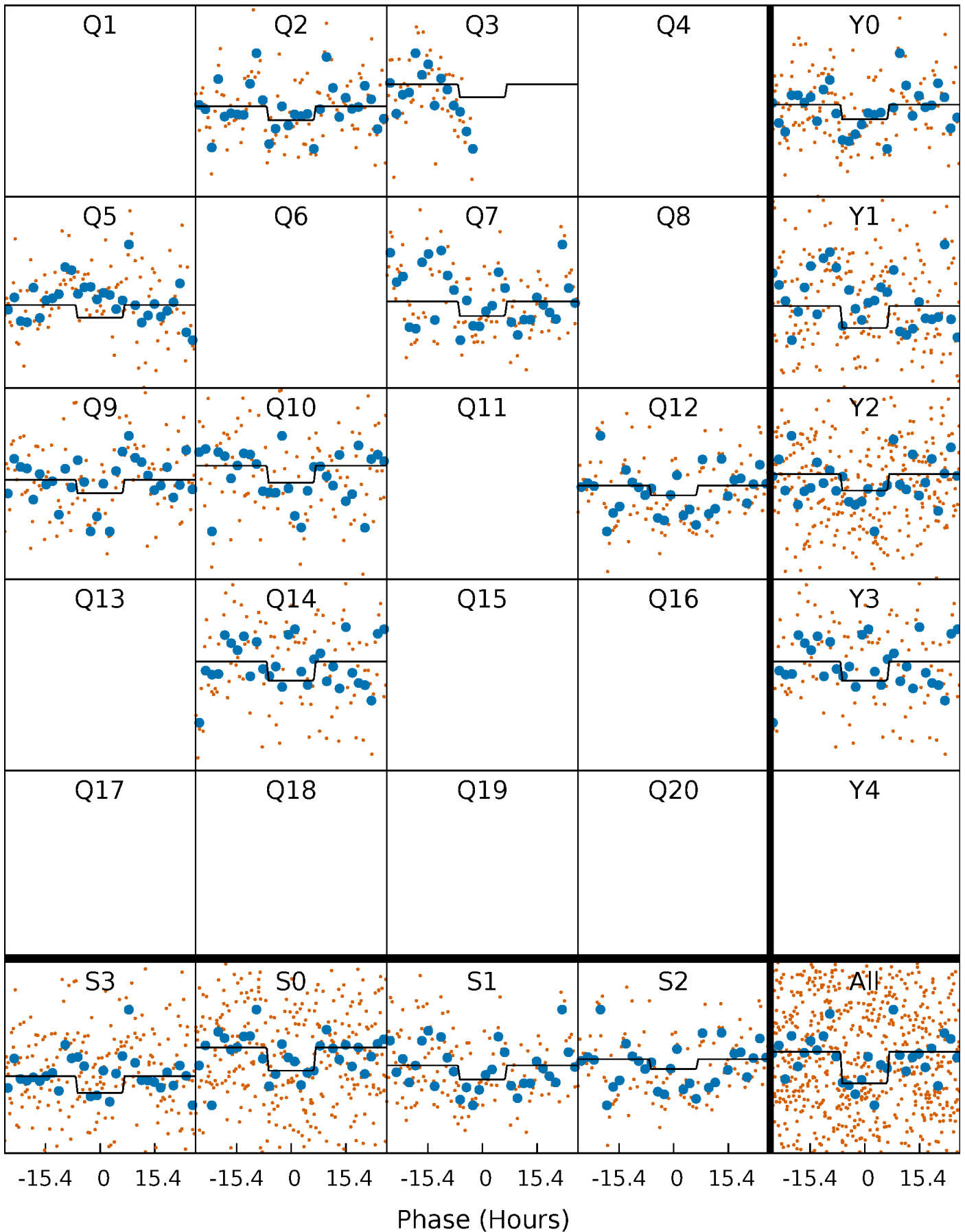
DV Quarter-Phased Transit Curves

TCE 008891195-01 P=161.481046 Days $T_0=188.062364$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

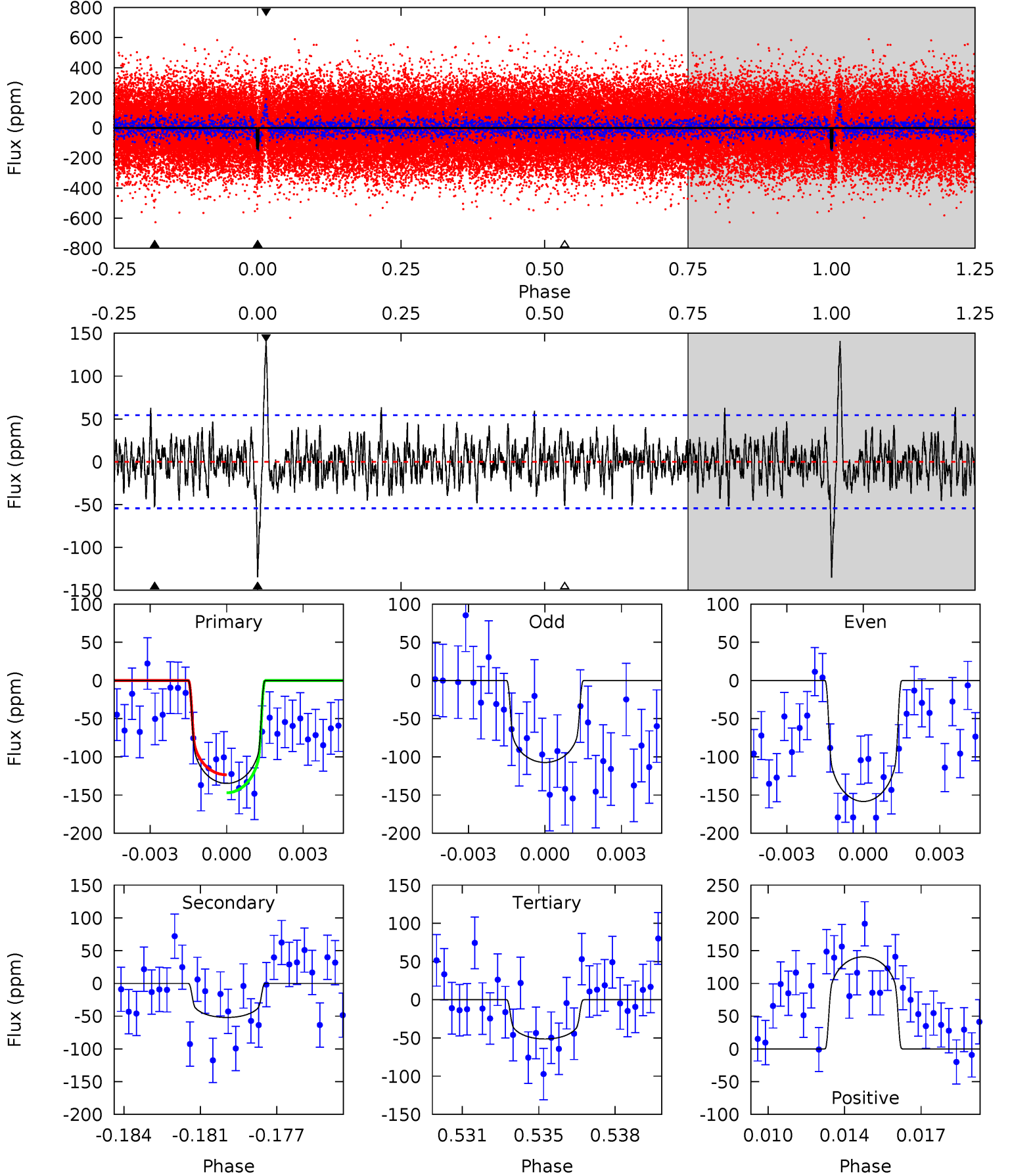
TCE 008891195-01 P=161.465991 Days $T_0=188.151352$ (BKJD)



DV Model-Shift Uniqueness Test

008891195-01, P = 161.481046 Days, E = 26.581318 Days

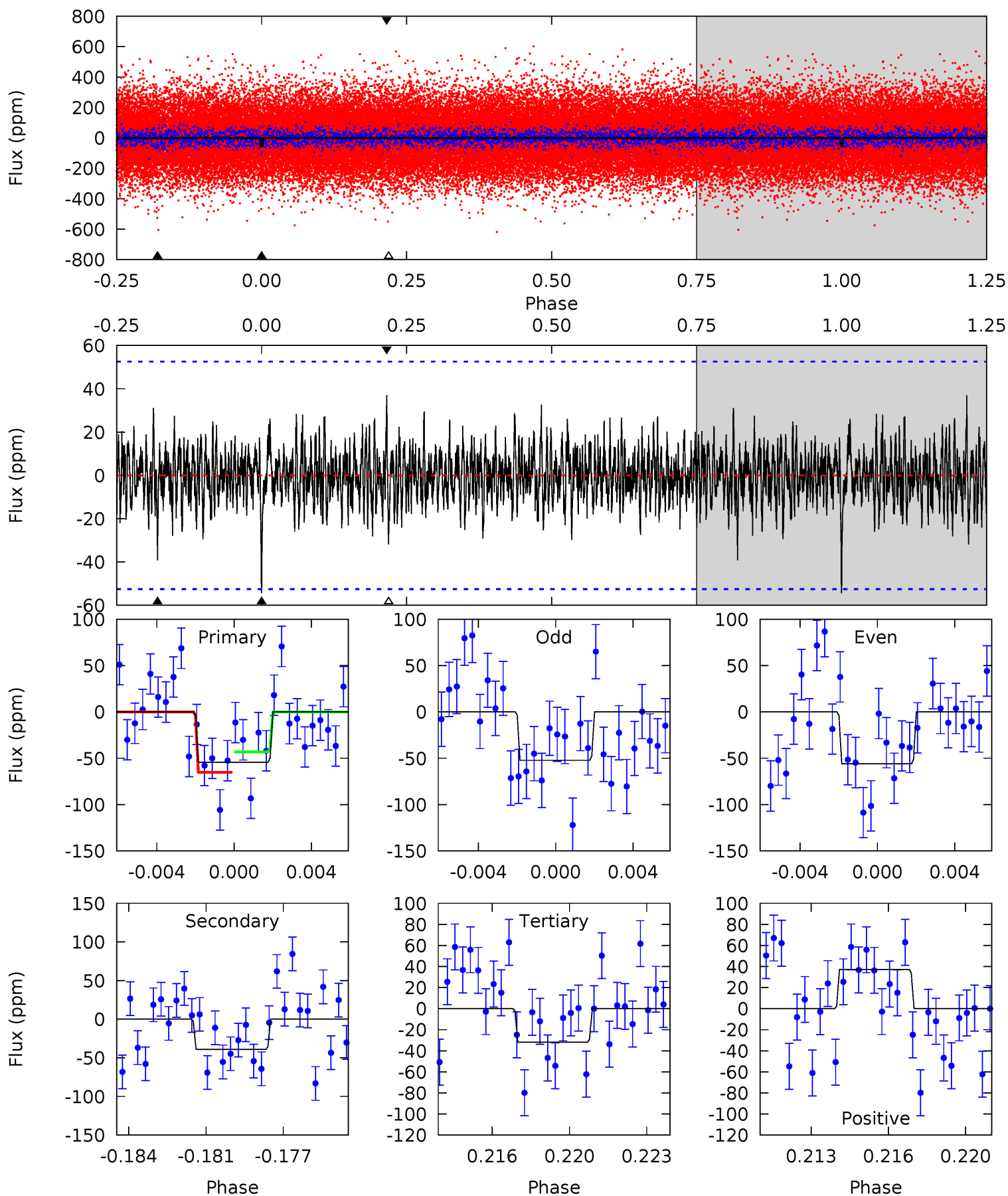
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	5.01	4.94	13.5	5.23	2.92	1.90	8.01	-0.56	0.07	-8.51	2.45	0.95	0.51	1.13



Alt Model-Shift Uniqueness Test

008891195-01, P = 161.465991 Days, E = 26.685361 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.40	3.90	3.16	3.69	5.22	2.92	0.99	2.23	1.71	0.73	0.20	0.19	1.02	0.41	1.10



Stellar Parameters For KIC 008891195

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5125^{+116}_{-116}	$3.549^{+0.148}_{-0.181}$	$-0.320^{+0.250}_{-0.200}$	$2.871^{+0.758}_{-0.569}$	$1.065^{+0.208}_{-0.156}$	$0.063^{+0.050}_{-0.030}$
	+2%/-2%	+4%/-5%	+78%/-62%	+26%/-20%	+20%/-15%	+79%/-47%
Source	PHO1	FLK73	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 008891195-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-52 ± 10	$3.94^{+1.06}_{-1.01}$	702^{+45}_{-47}	4135^{+489}_{-313}	651^{+549}_{-254}
Alt.	-39 ± 10	$2.37^{+0.95}_{-0.92}$	702^{+47}_{-41}	4755^{+1132}_{-605}	1312^{+2240}_{-705}

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

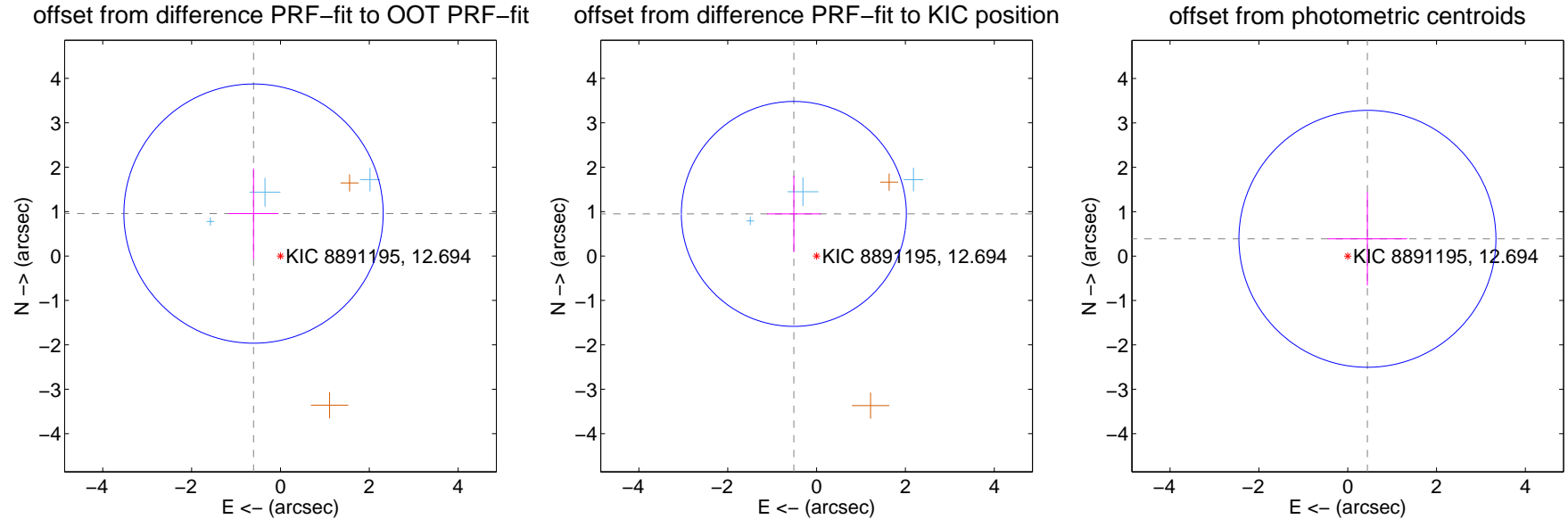
DV Centroid Data

Supplemental centroid analysis for 008891195-01. Kepler magnitude: 12.69. Transit SNR 6.27

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.131 ± 0.973	1.16	0.606 ± 0.561	0.955 ± 1.016
PRF-fit source offset from KIC position	1.077 ± 0.844	1.28	0.512 ± 0.605	0.948 ± 0.859
photometric centroid source offset	0.59 ± 0.96	0.61	-0.44 ± 0.89	0.39 ± 1.05



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.

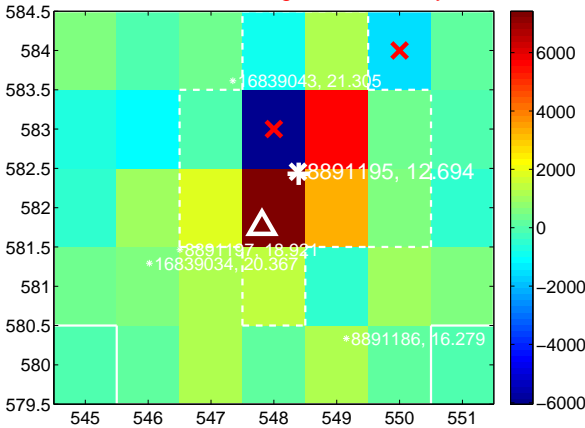
Q1 no difference image



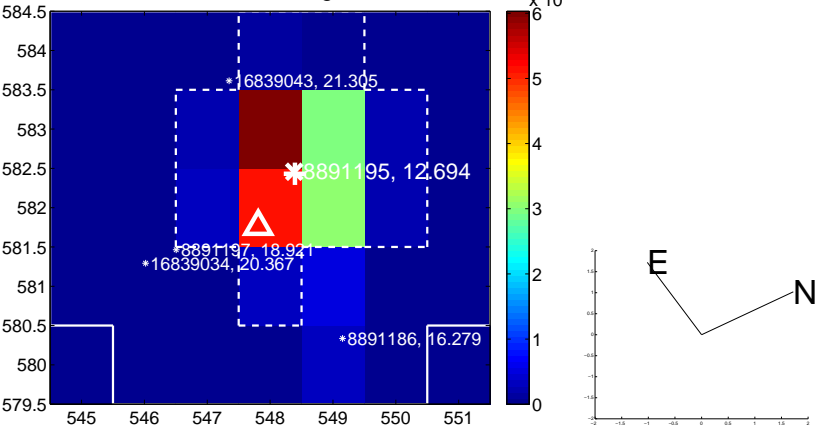
Q1 no OOT image



Q2 difference image. Poor Quality



Q2 OOT image



Q3 no difference image



Q3 no OOT image



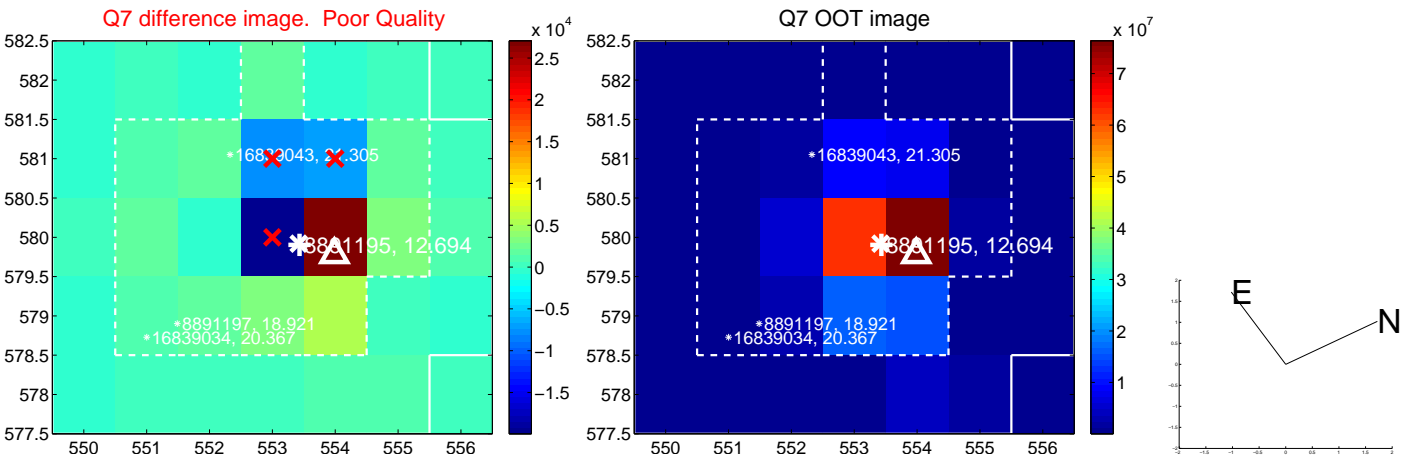
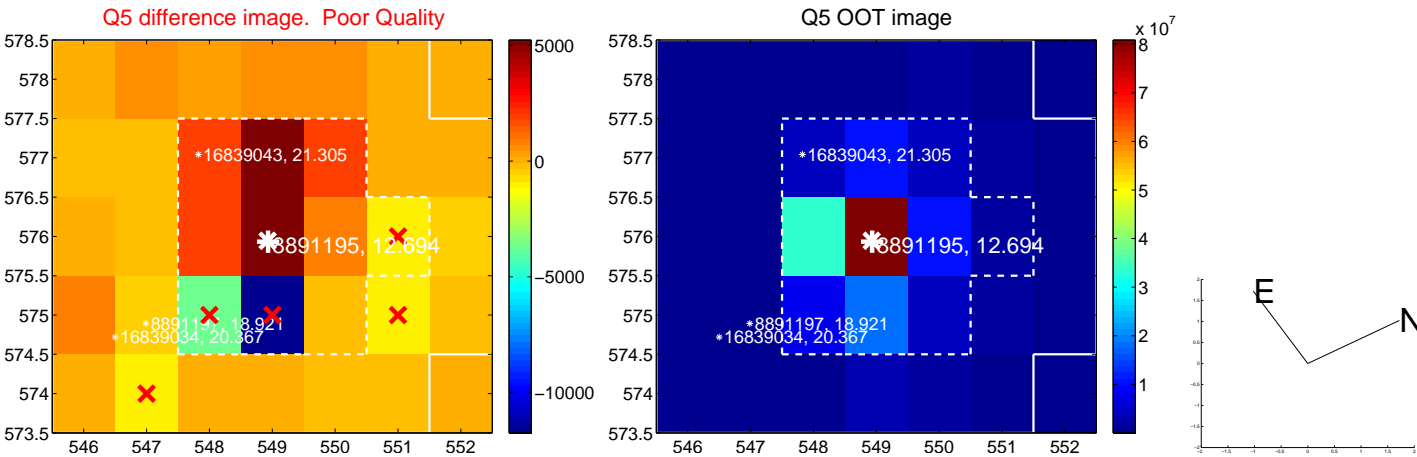
Q4 no difference image



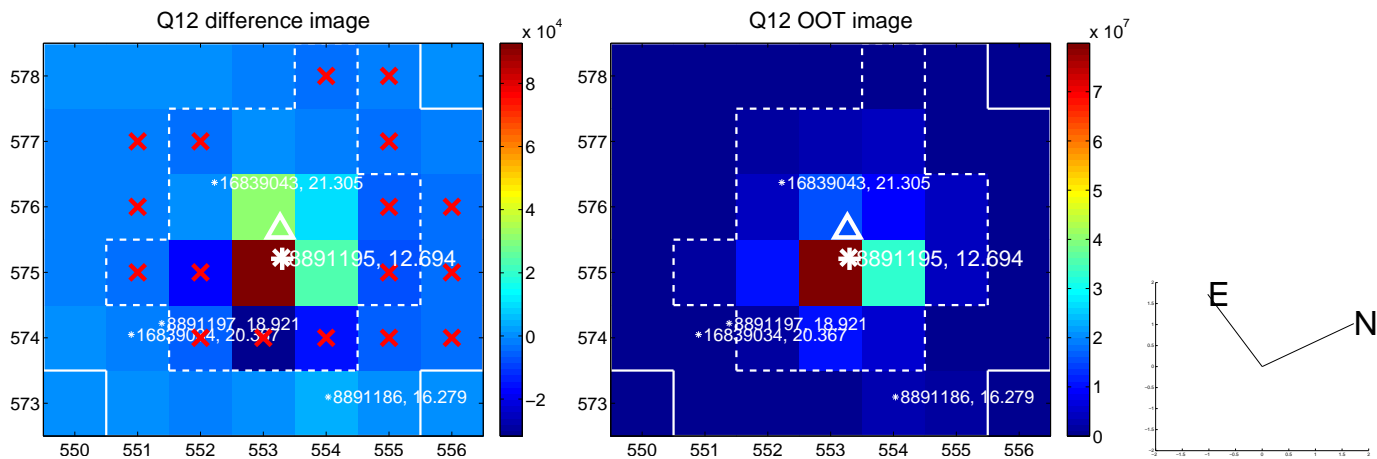
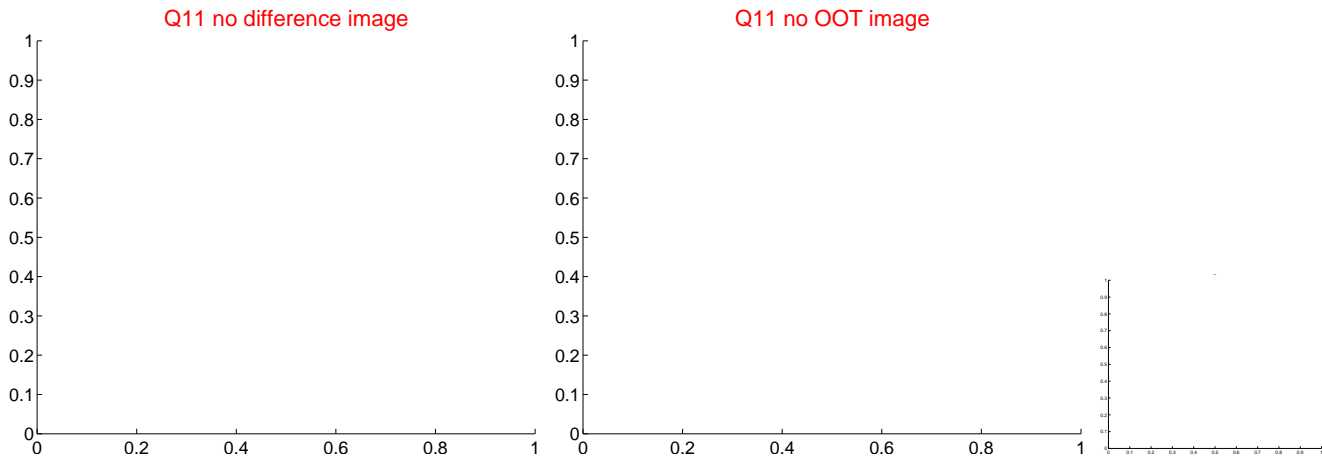
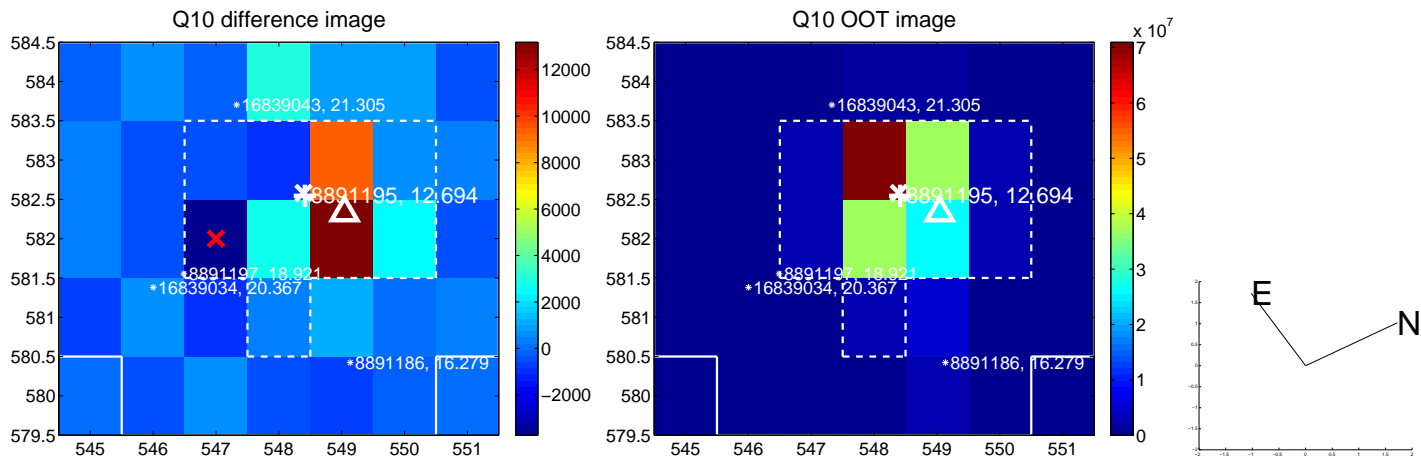
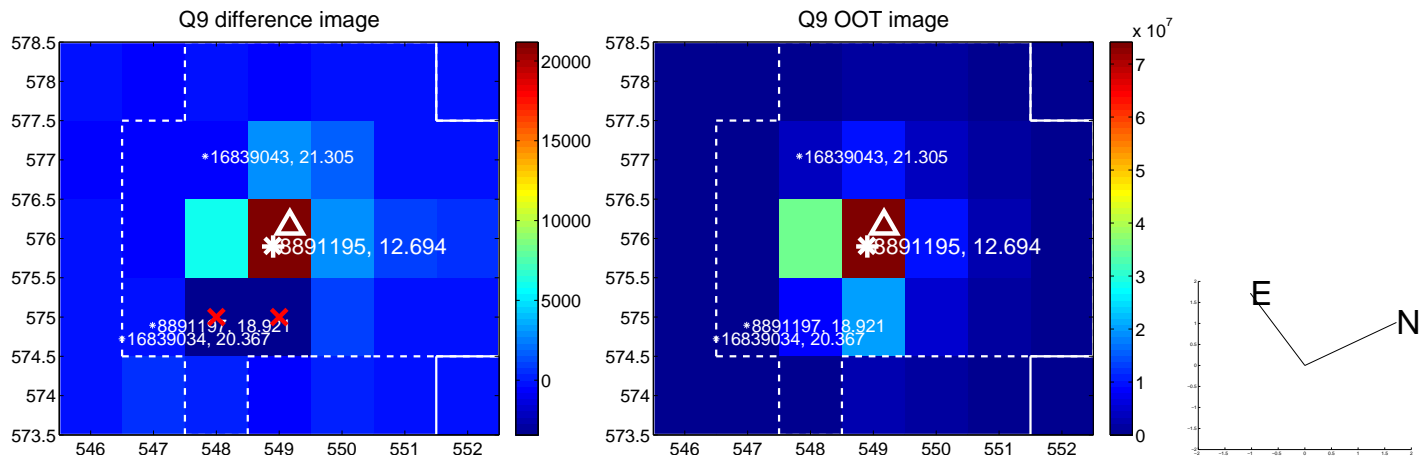
Q4 no OOT image



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.

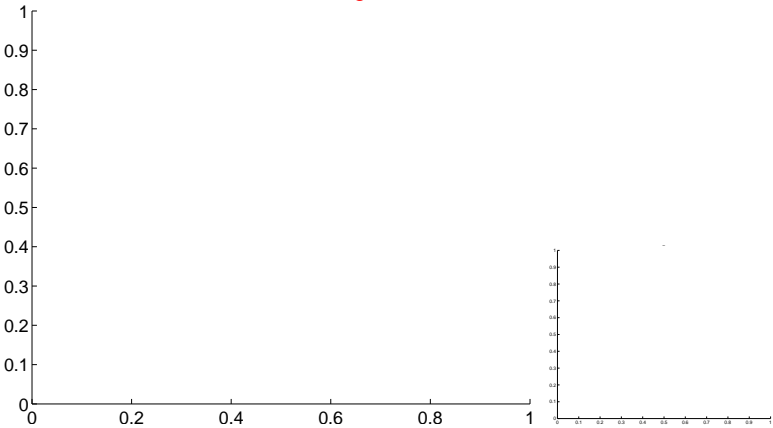


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

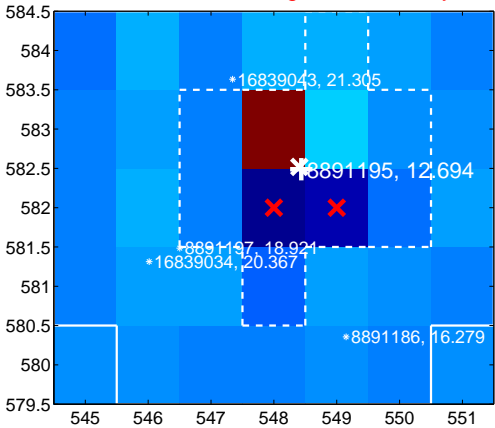
Q13 no difference image



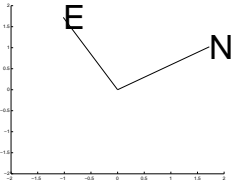
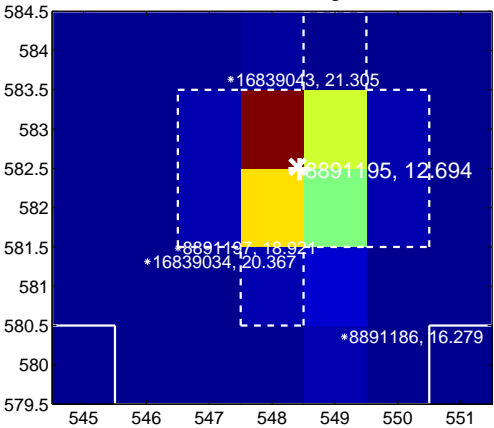
Q13 no OOT image



Q14 difference image. Poor Quality



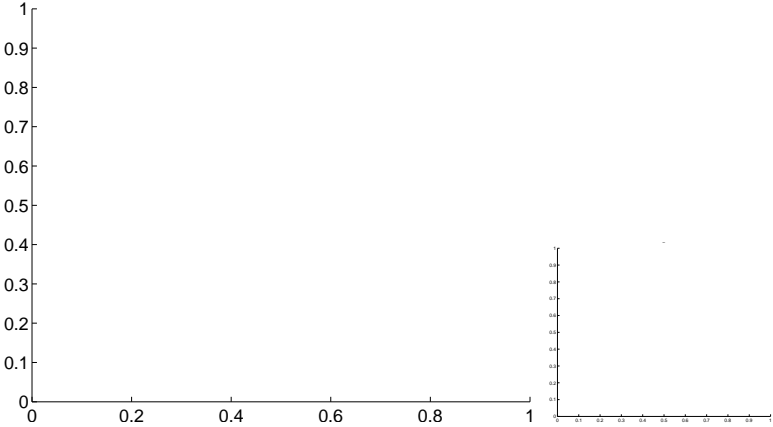
Q14 OOT image



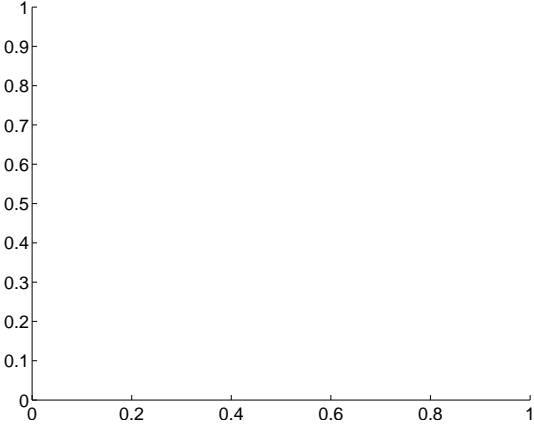
Q15 no difference image



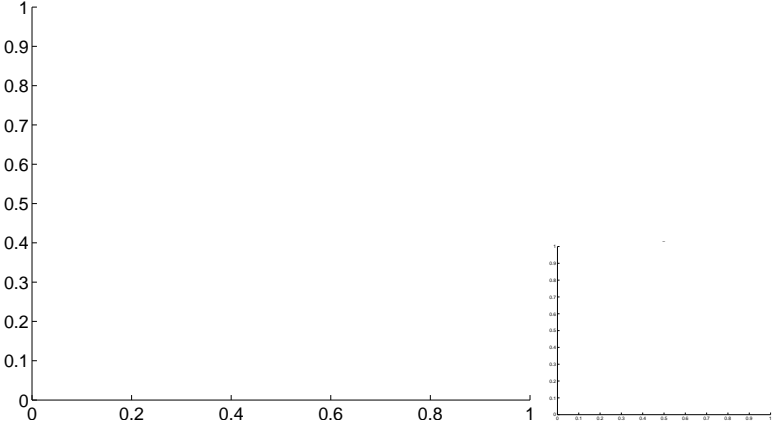
Q15 no OOT image



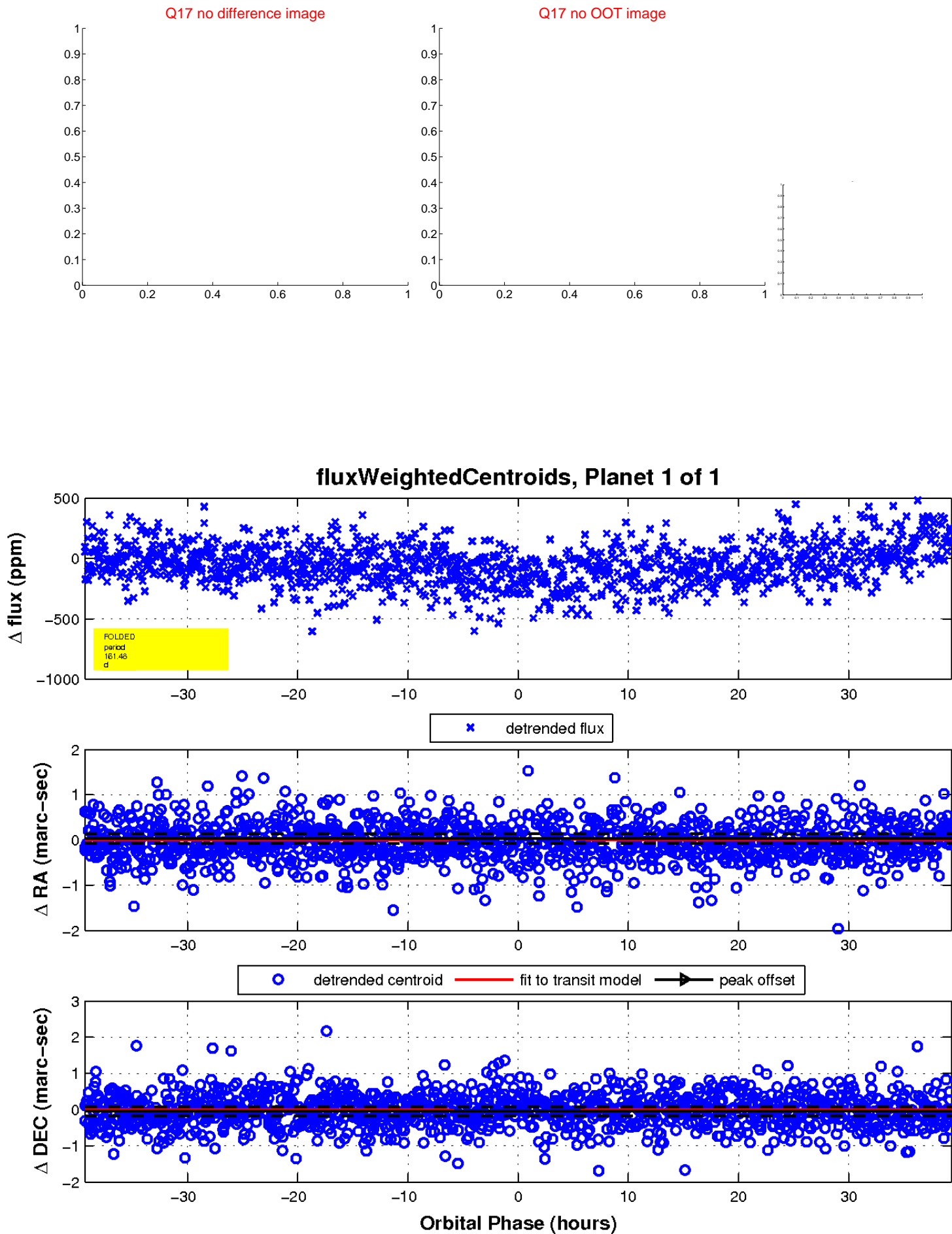
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

