

KIC 011769293

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})
011769293-01	OBS	No	509.987699	448.693556	184.9	20.604	7.4	6.8	0.88	5717	1.31	0.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011769293-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

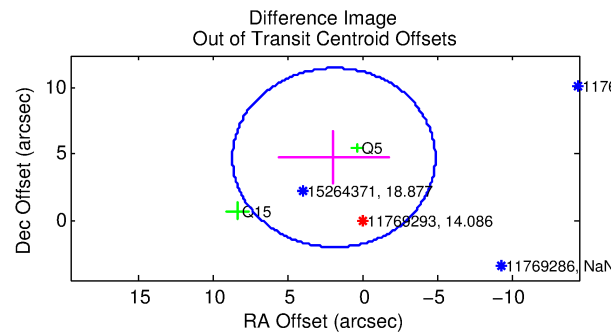
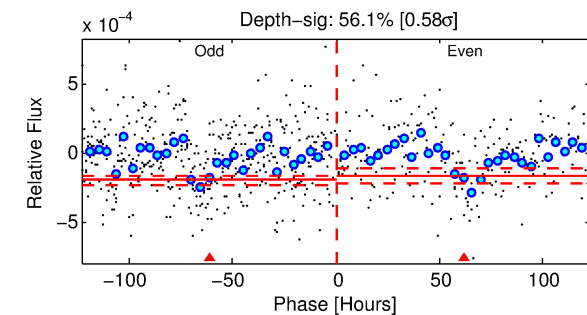
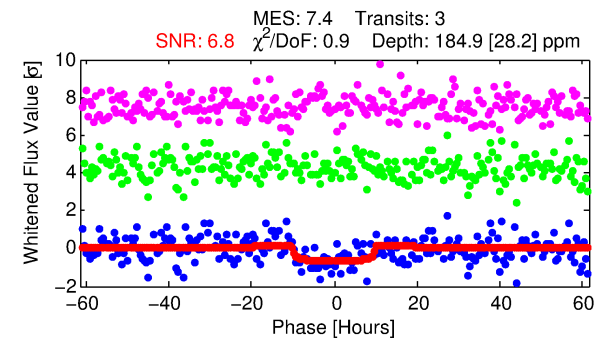
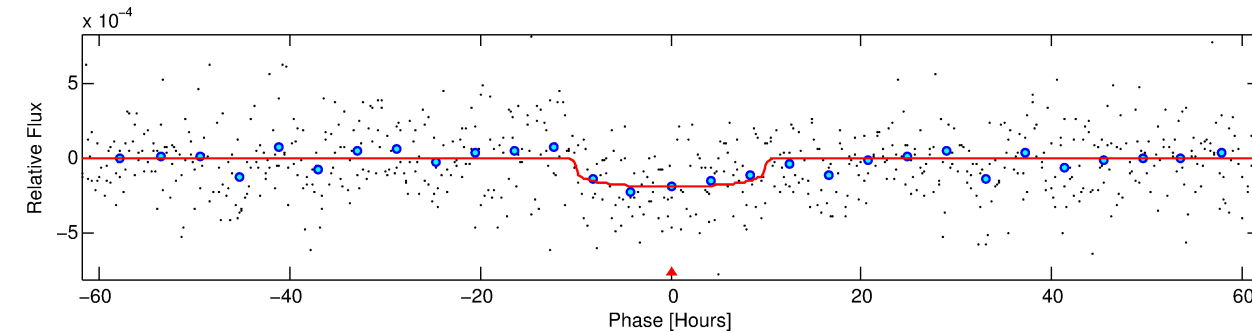
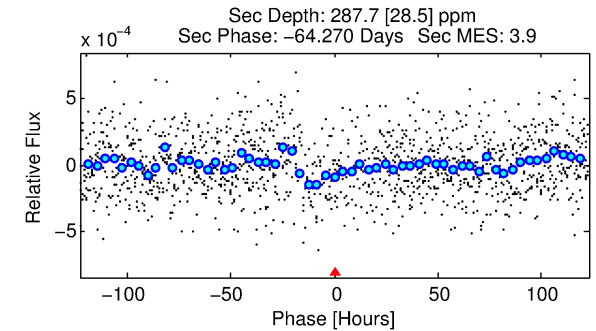
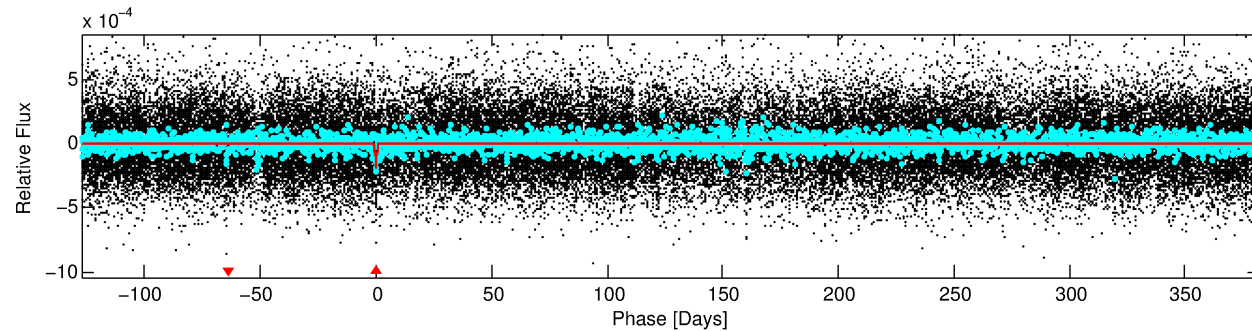
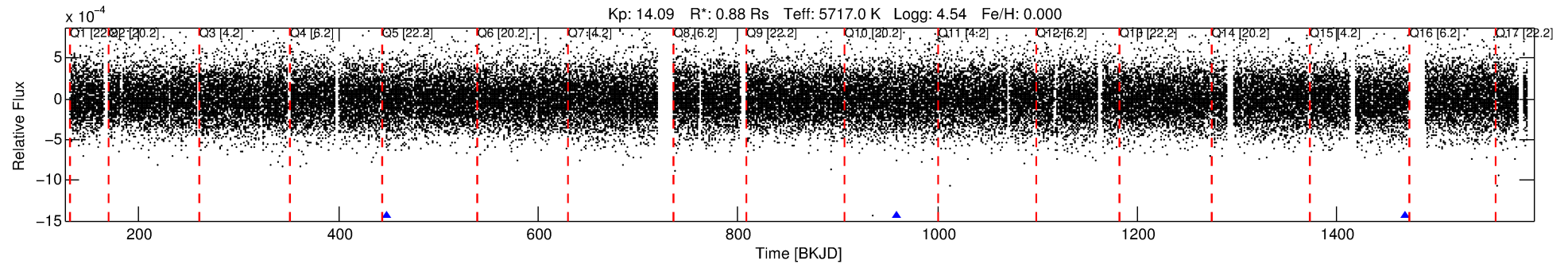
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011769293-01

No Significant Match Found

DV One-Page Summary

KIC: 11769293 Candidate: 1 of 1 Period: 509.988 d



DV Fit Results:

Period = 509.98770 [0.02551] d
Epoch = 448.6936 [0.0328] BKJD
Rp/R* = 0.0136 [0.0055]
a/R* = 125.31 [220.58]
b = 0.77 [0.95]
Seff = 0.48 [0.19]
Teq = 213 [20] K
Rp = 1.31 [0.66] Re
a = 1.2427 [0.3080] AU
Ag = 141483.39 [126624.04] [1.12σ]
Teffp = 6379 [1318] K [4.68σ]

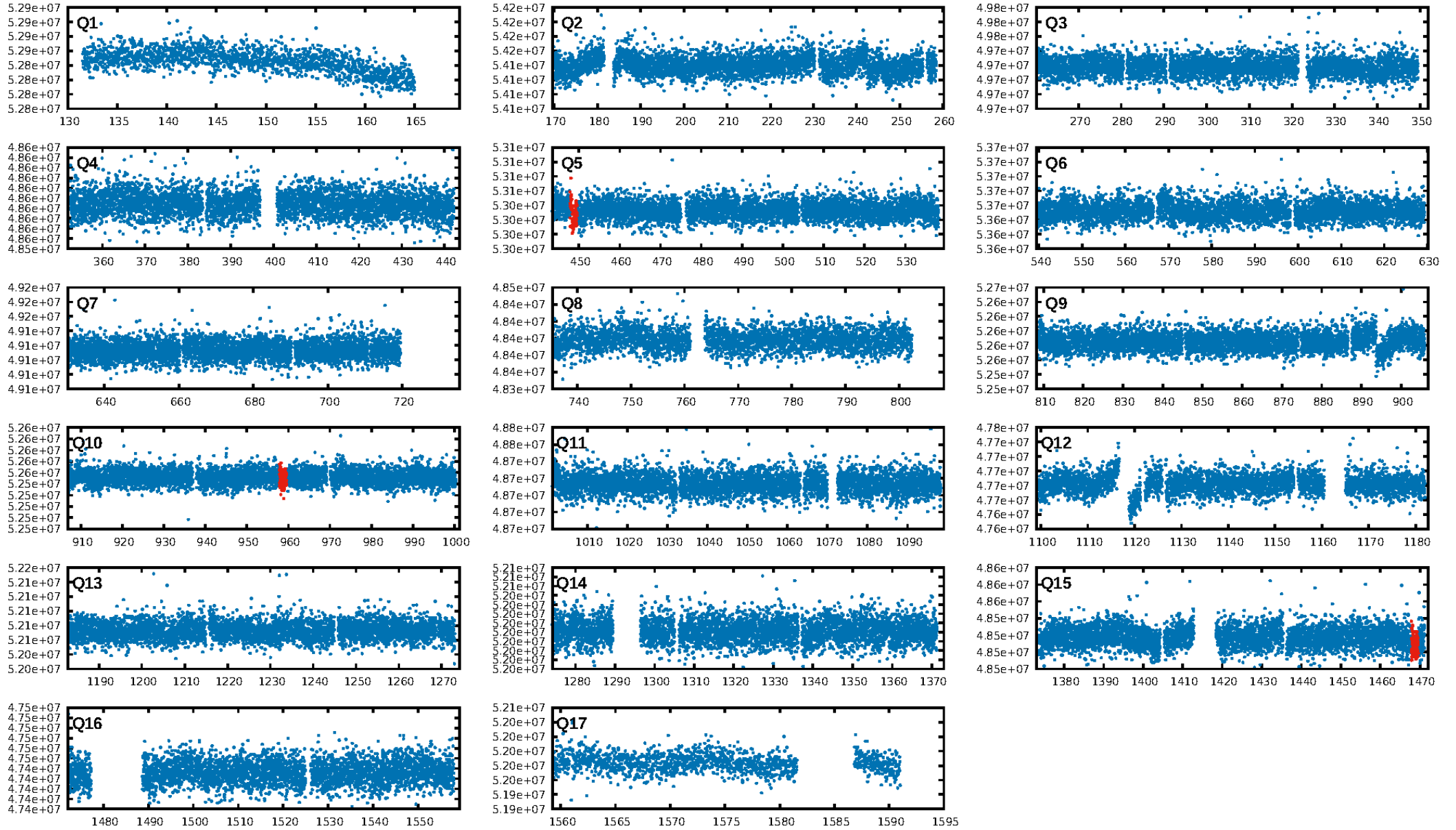
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 6.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.31e-08
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 2.168
Centroid-sig: 0.2%
Centroid-so: 4.788 arcsec [2.14σ]
OotOffset-rm: 5.112 arcsec [2.26σ]
KicOffset-rm: 5.009 arcsec [2.21σ]
OotOffset-st: 0/1/0/1 [2]
KicOffset-st: 0/1/0/1 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [3/3]

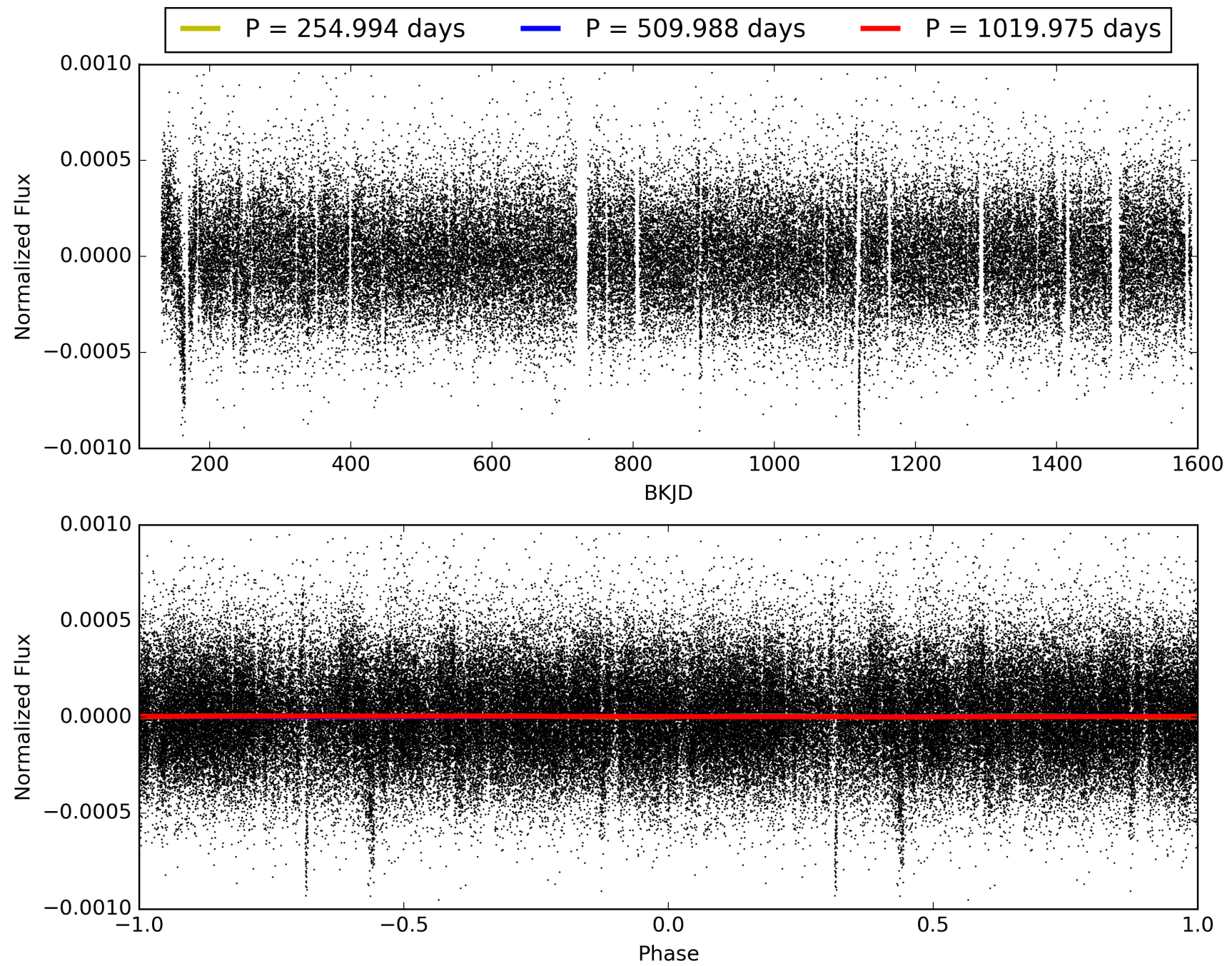
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:34:48 Z

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

TCE 011769293-01, PDC Light Curves

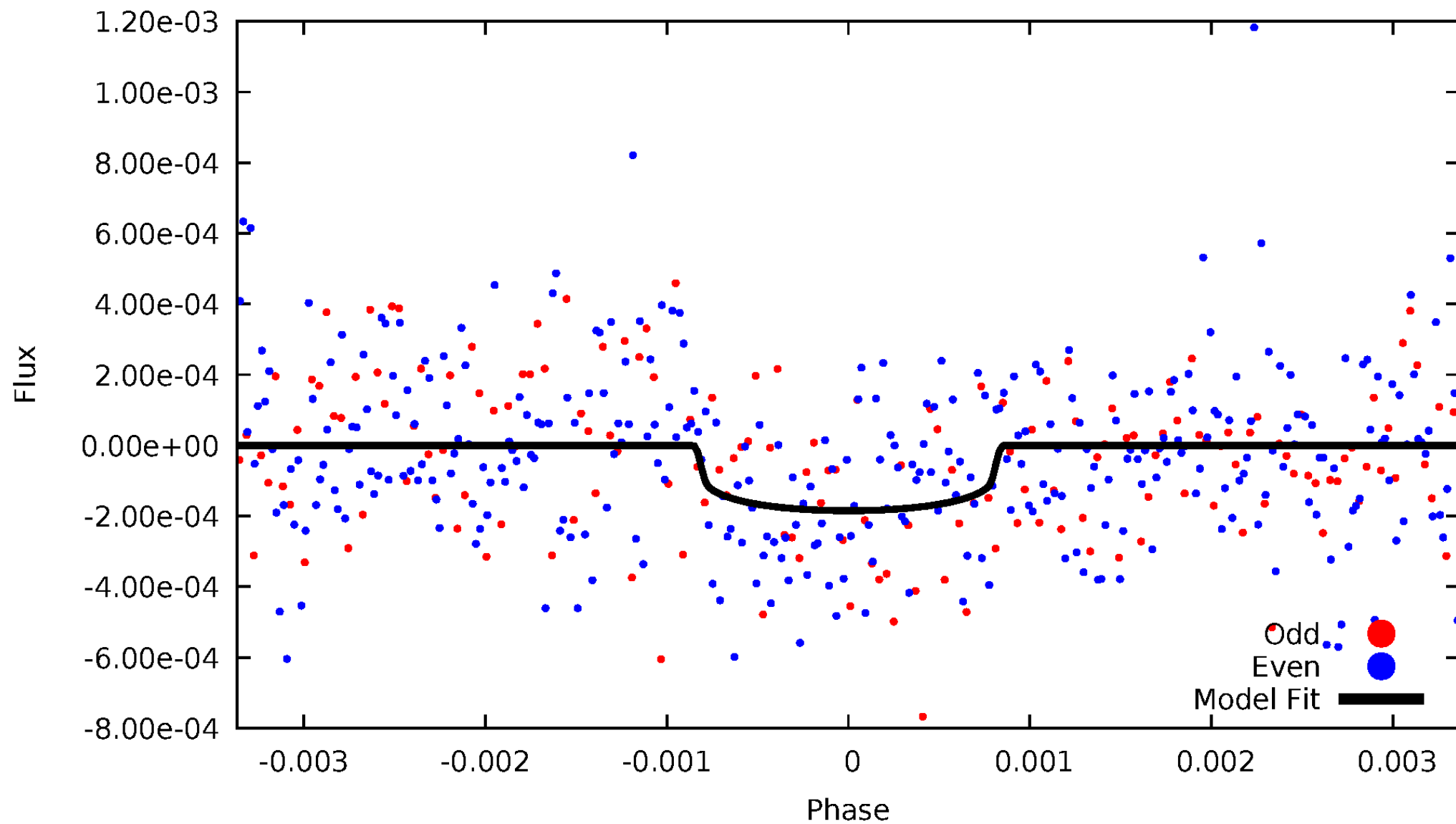


TCE 011769293-01



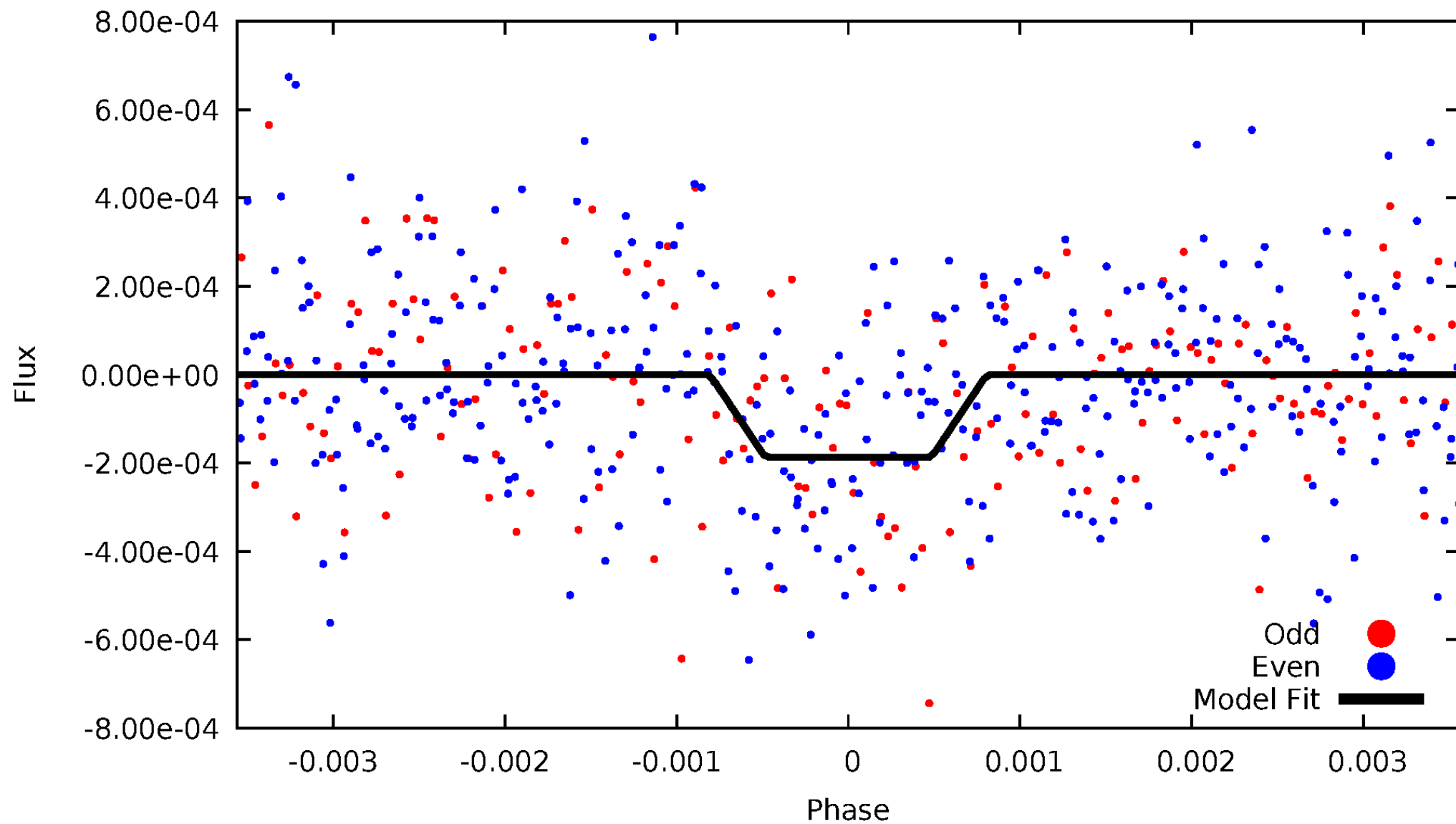
DV Odd/Even

TCE 011769293-01



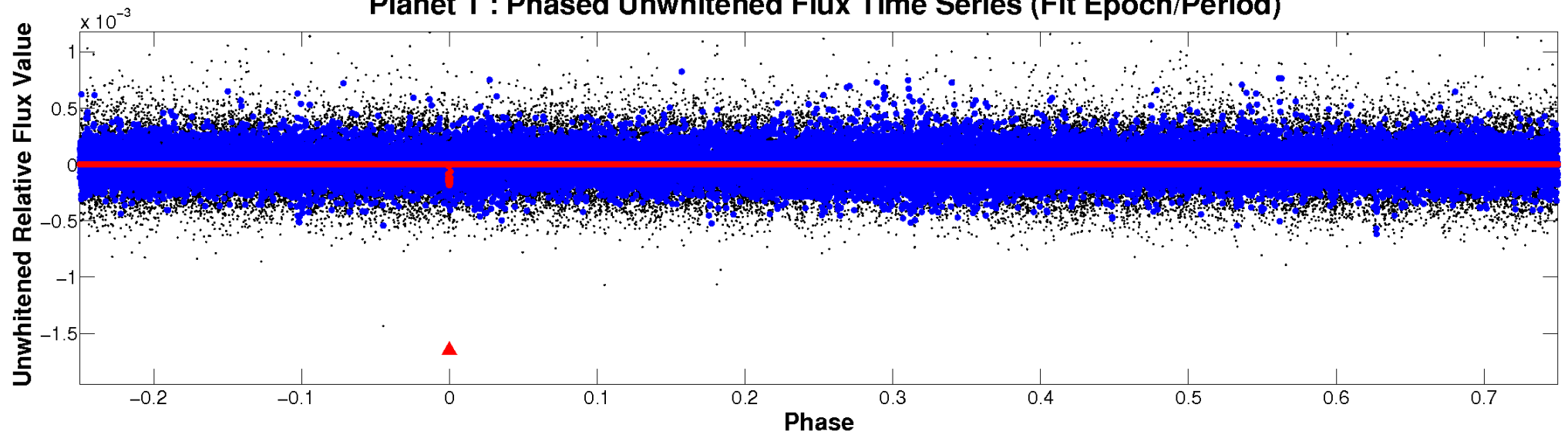
ALT Odd/Even

TCE 011769293-01

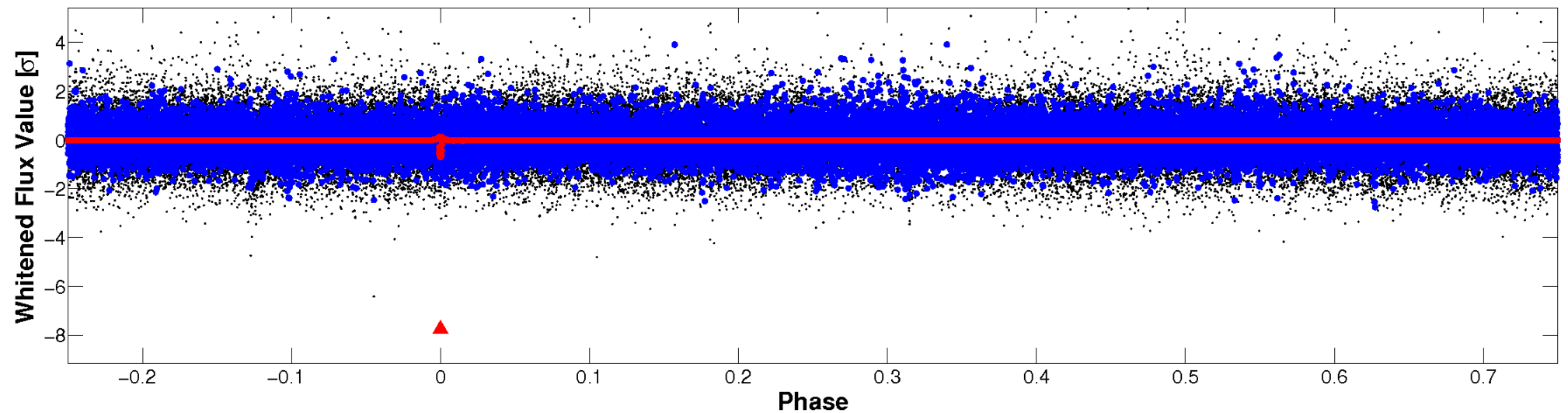


Non-Whitened Vs. Whitened Light Curve

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

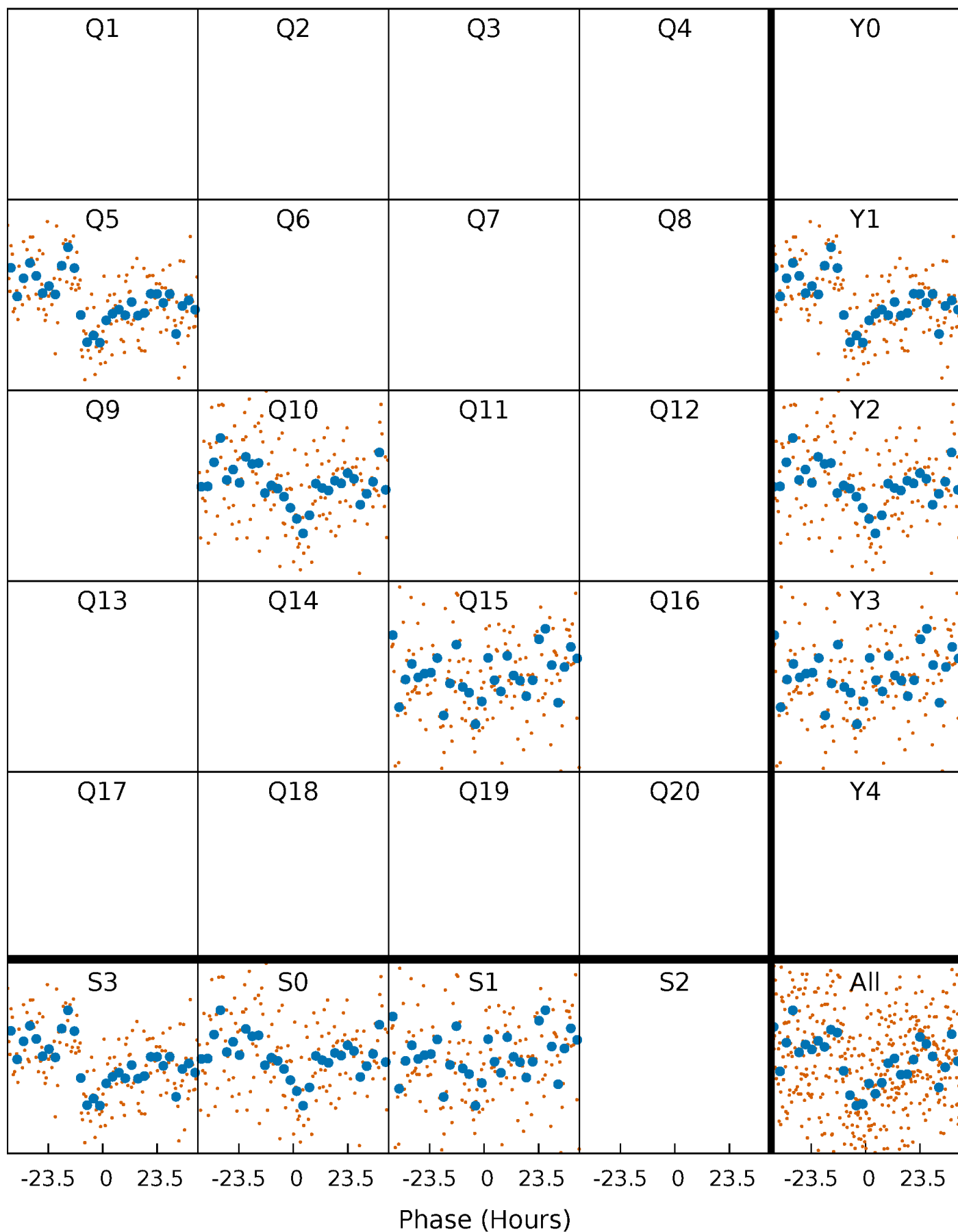


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011769293-01 P=509.987699 Days $T_0=448.693556$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011769293-01 $P=509.987699$ Days $T_0=448.693556$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

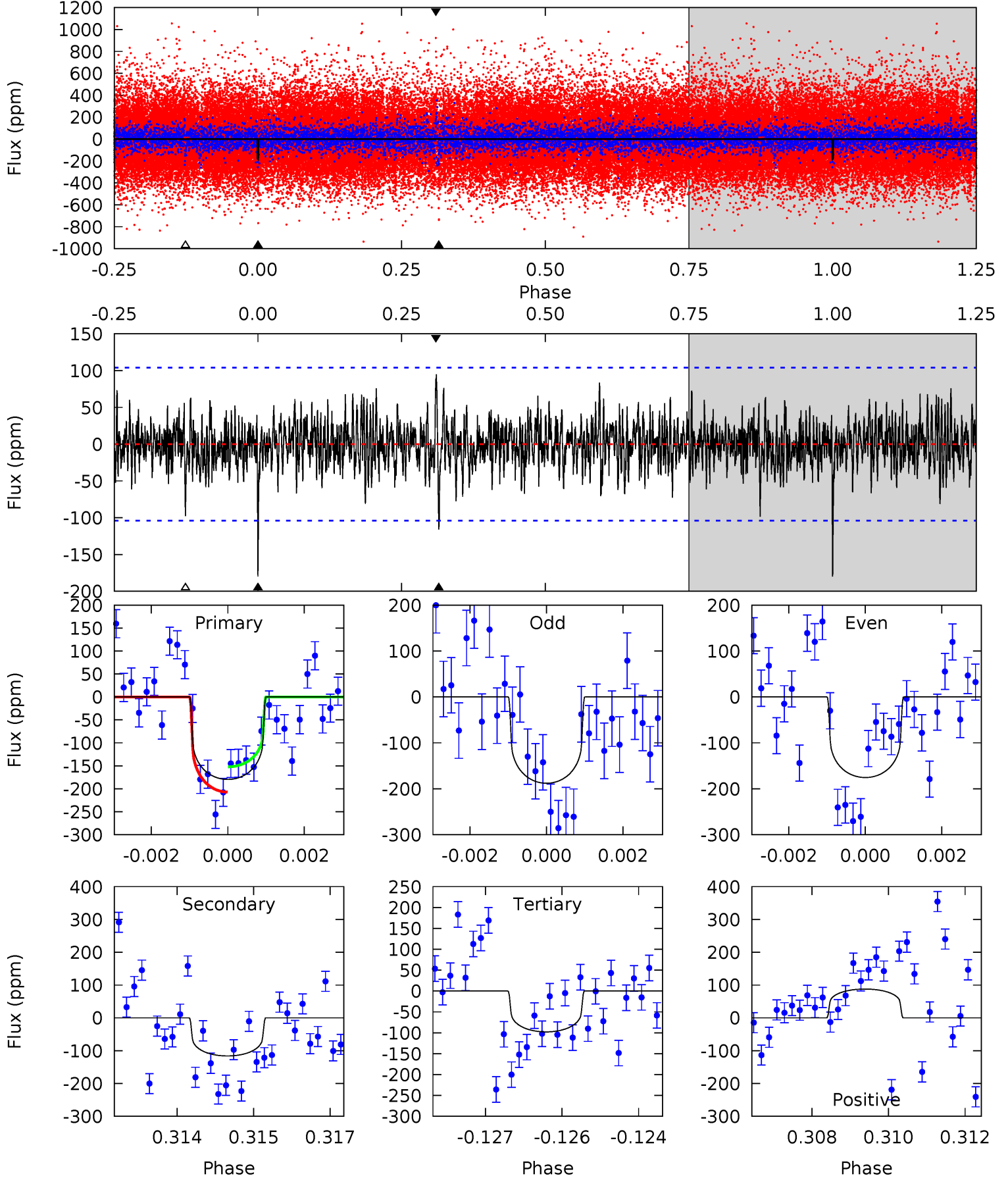
TCE 011769293-01 P=509.980791 Days $T_0=448.669401$ (BKJD)



DV Model-Shift Uniqueness Test

011769293-01, P = 509.987699 Days, E = 448.693556 Days

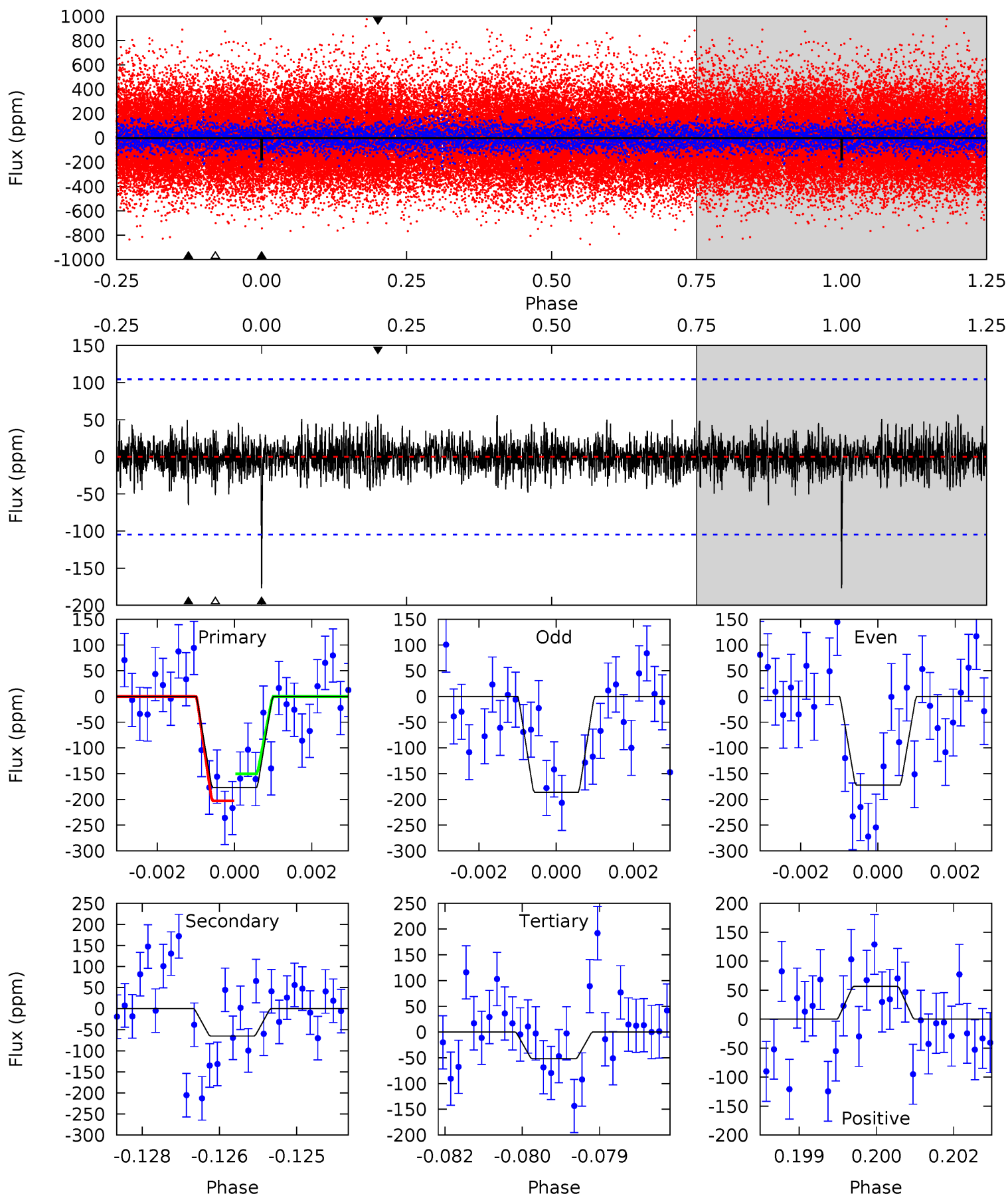
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.25	5.97	5.04	4.52	5.35	3.13	1.28	4.21	4.73	0.94	1.46	0.30	0.96	0.35	1.42



Alt Model-Shift Uniqueness Test

011769293-01, P = 509.980791 Days, E = 448.669401 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.06	3.33	2.65	2.91	5.36	3.15	0.82	6.41	6.15	0.68	0.43	0.34	0.95	0.24	1.35



Stellar Parameters For KIC 011769293

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5717^{+156}_{-173}	$4.538^{+0.037}_{-0.200}$	$0.000^{+0.250}_{-0.300}$	$0.884^{+0.258}_{-0.069}$	$0.984^{+0.102}_{-0.114}$	$2.006^{+0.408}_{-1.051}$
	+3%/-3%	+1%/-4%	+inf%/-inf%	+29%/-8%	+10%/-12%	+20%/-52%
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 011769293-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-116 ± 19	$1.39^{+0.59}_{-0.55}$	303^{+21}_{-12}	5162^{+1350}_{-732}	50399^{+87919}_{-26286}
Alt.	-65 ± 20	$1.37^{+0.62}_{-0.53}$	305^{+19}_{-14}	4553^{+1044}_{-630}	27475^{+51589}_{-15285}

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 $A_{obs} \gg 1.0$

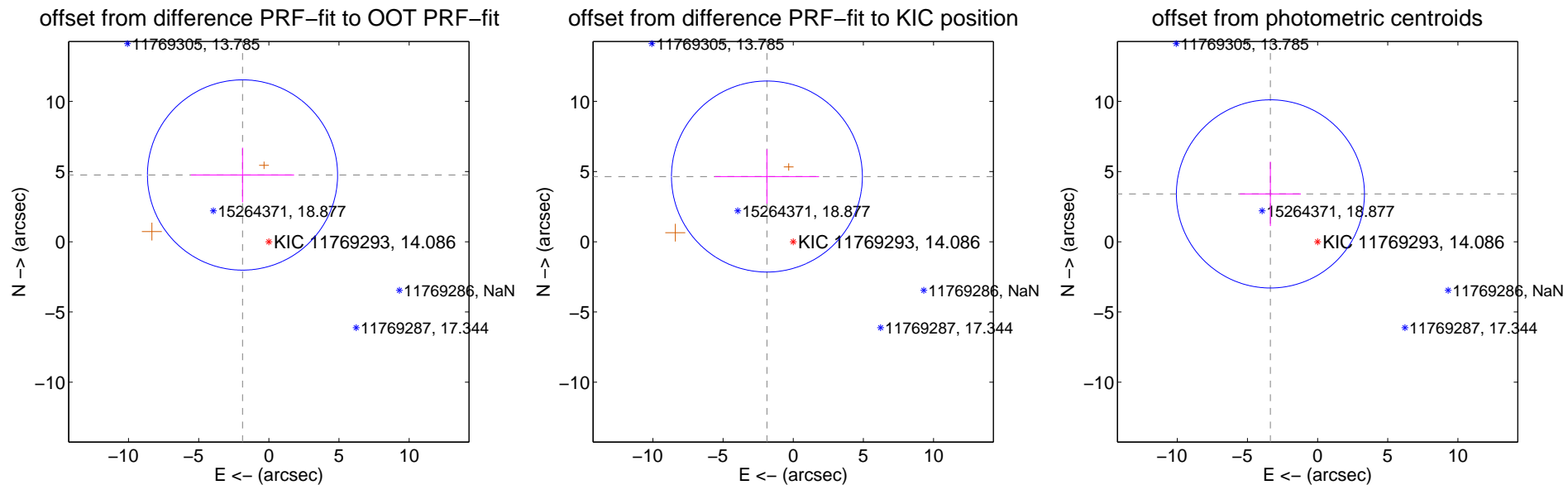
DV Centroid Data

Supplemental centroid analysis for 011769293-01. Kepler magnitude: 14.09. Transit SNR 6.78

There are 0 quarters with good PRF difference image offsets

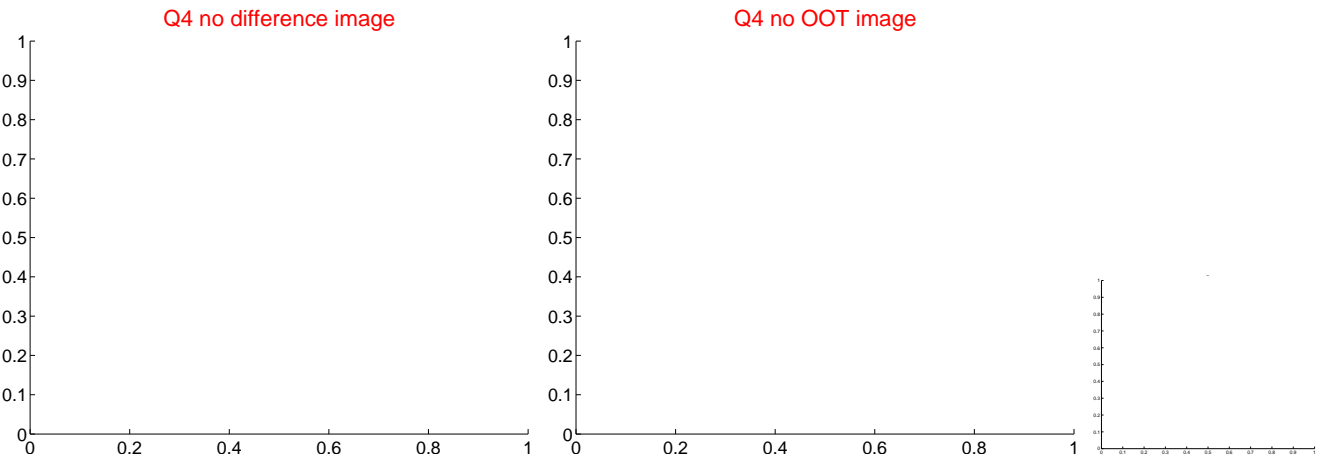
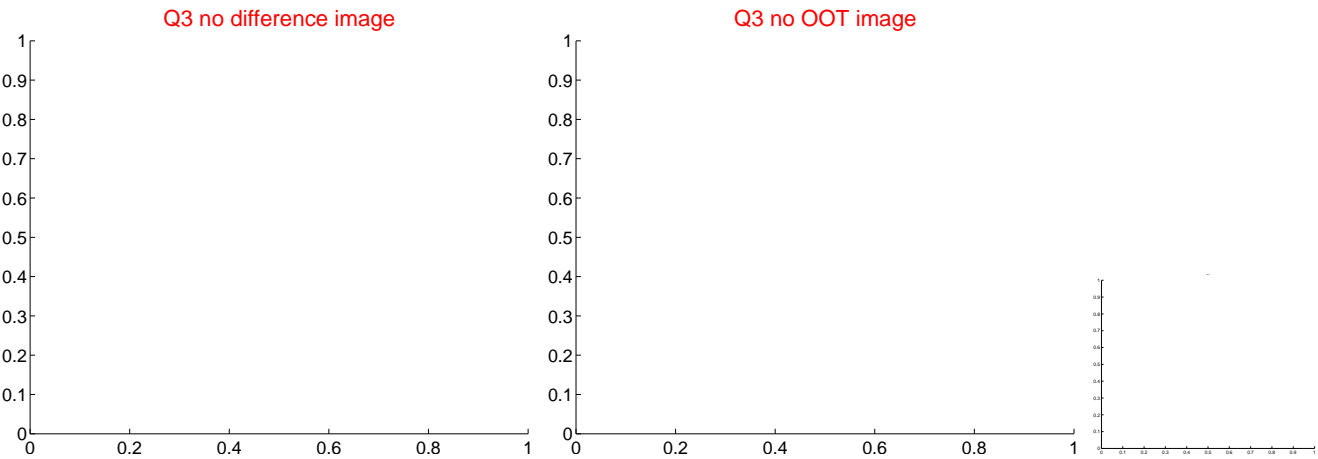
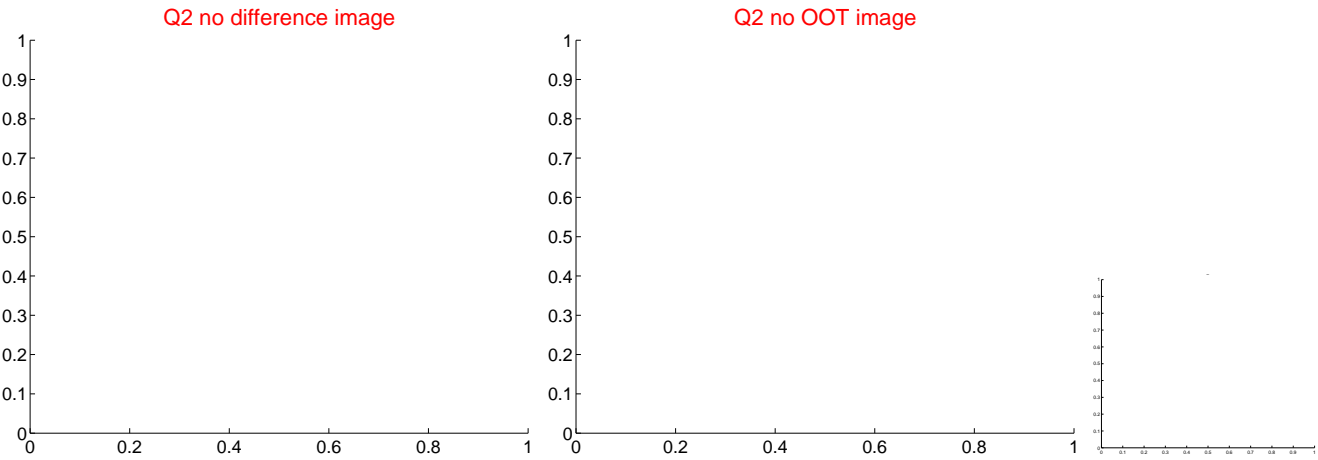
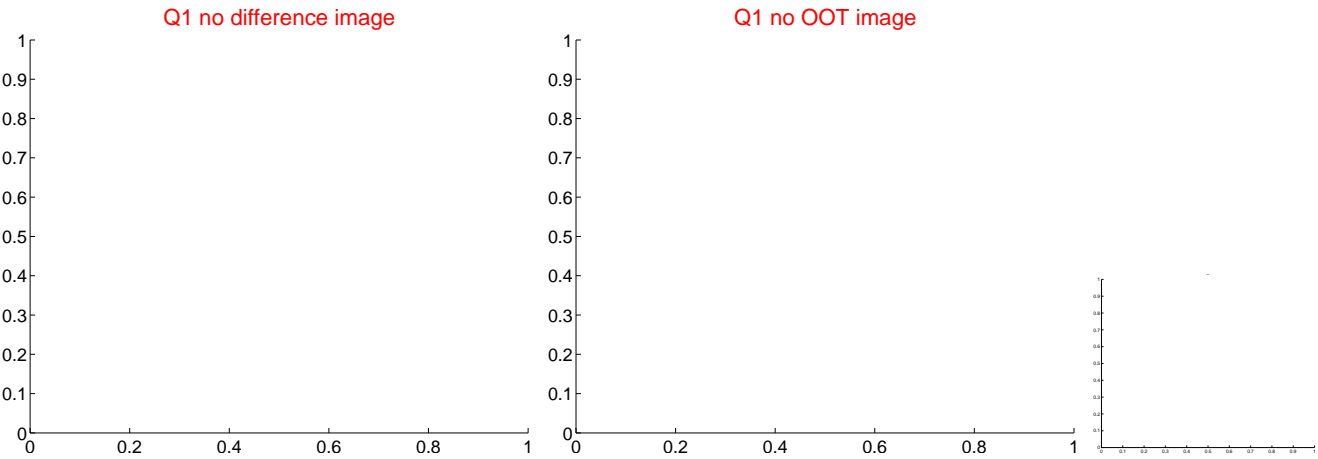
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.112 ± 2.259	2.26	1.876 ± 3.678	4.755 ± 1.947
PRF-fit source offset from KIC position	5.009 ± 2.268	2.21	1.874 ± 3.718	4.645 ± 1.931
photometric centroid source offset	4.79 ± 2.23	2.14	3.36 ± 2.17	3.41 ± 2.29

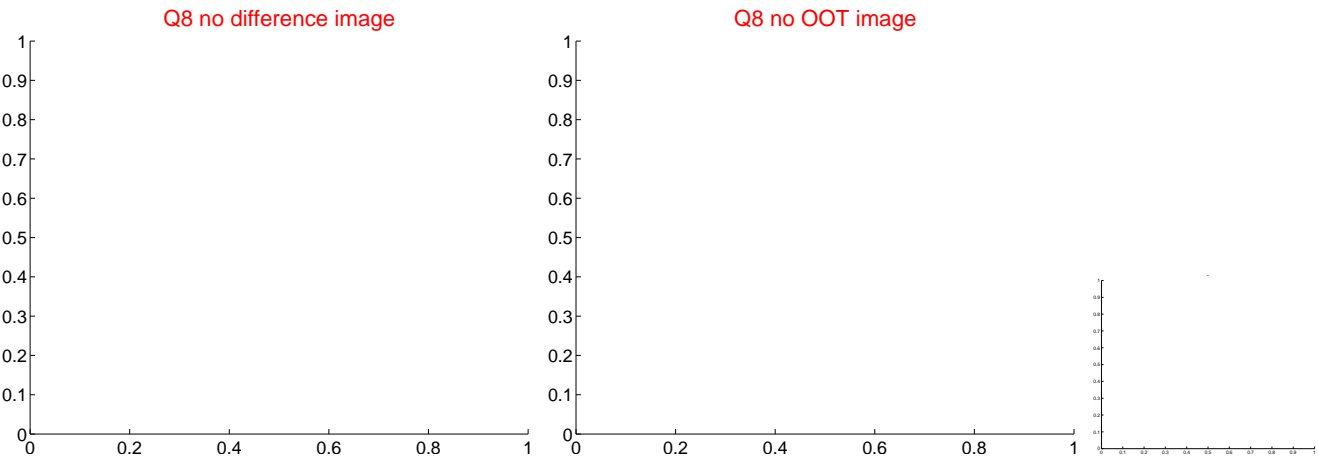
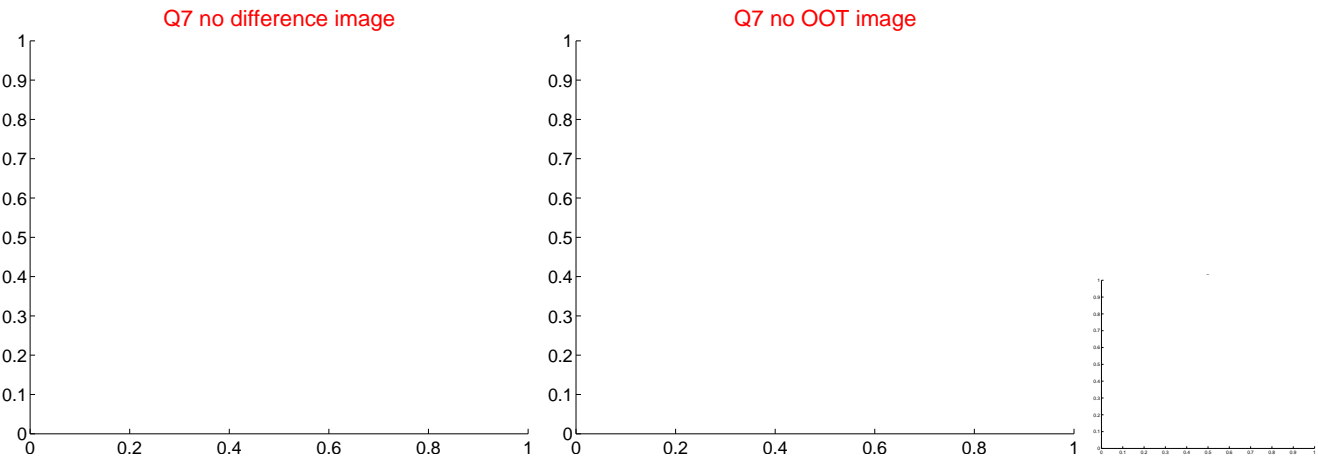
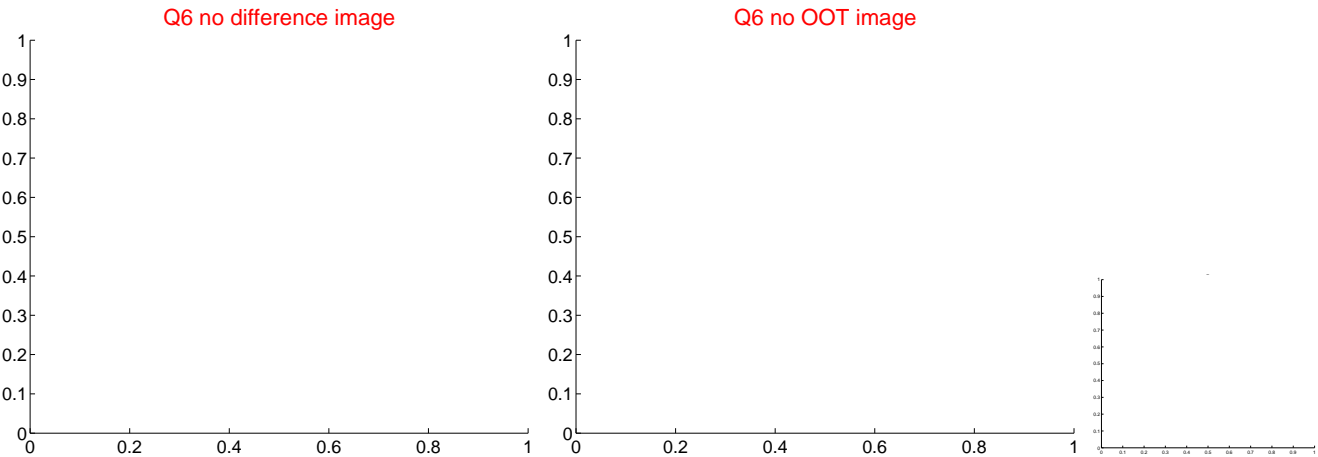
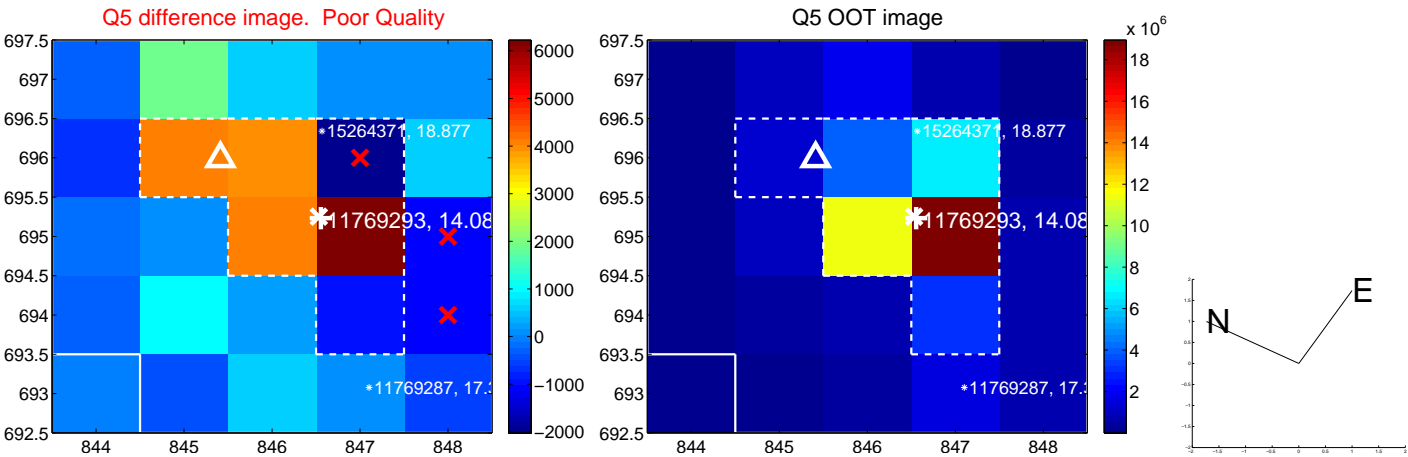


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

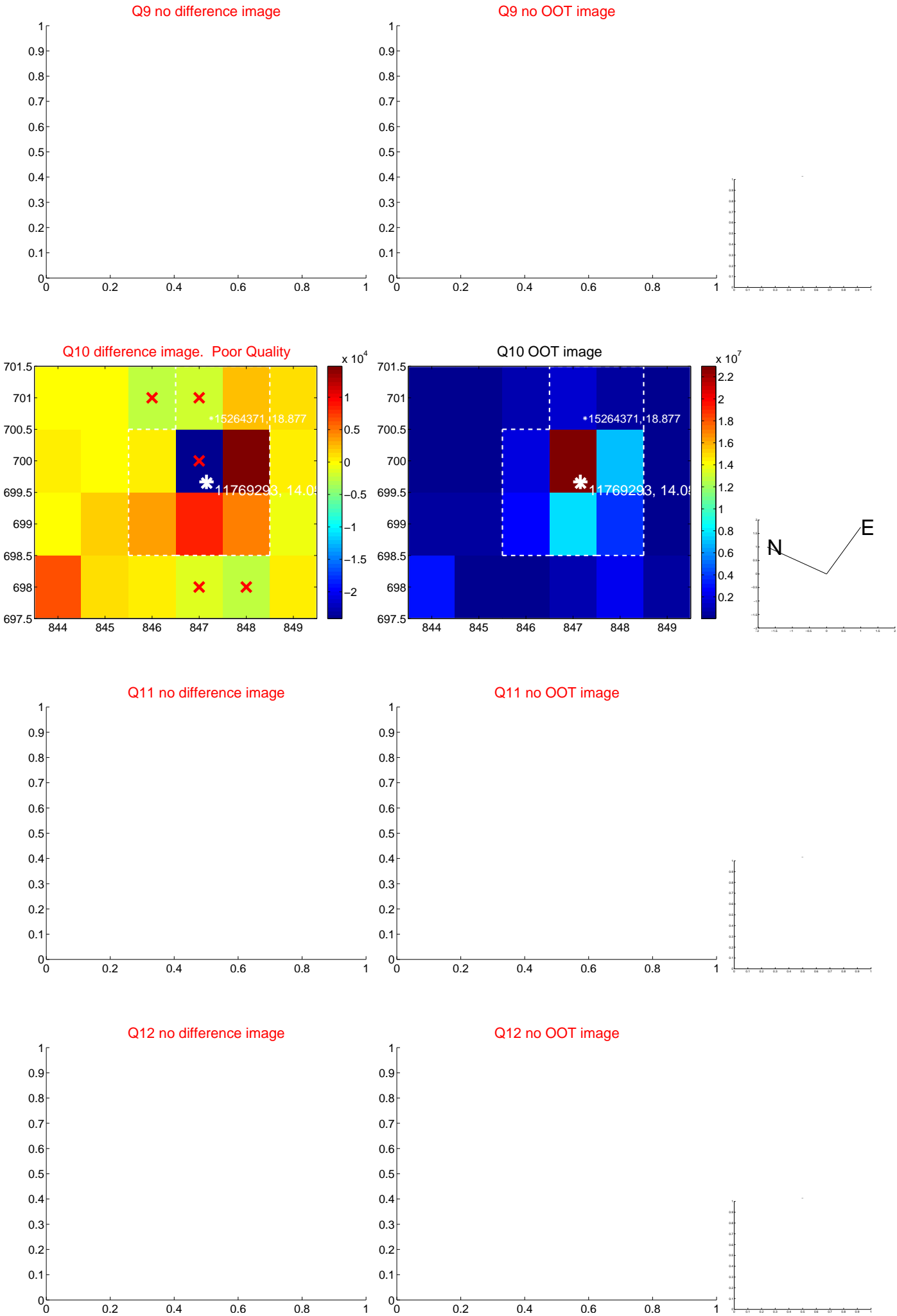
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



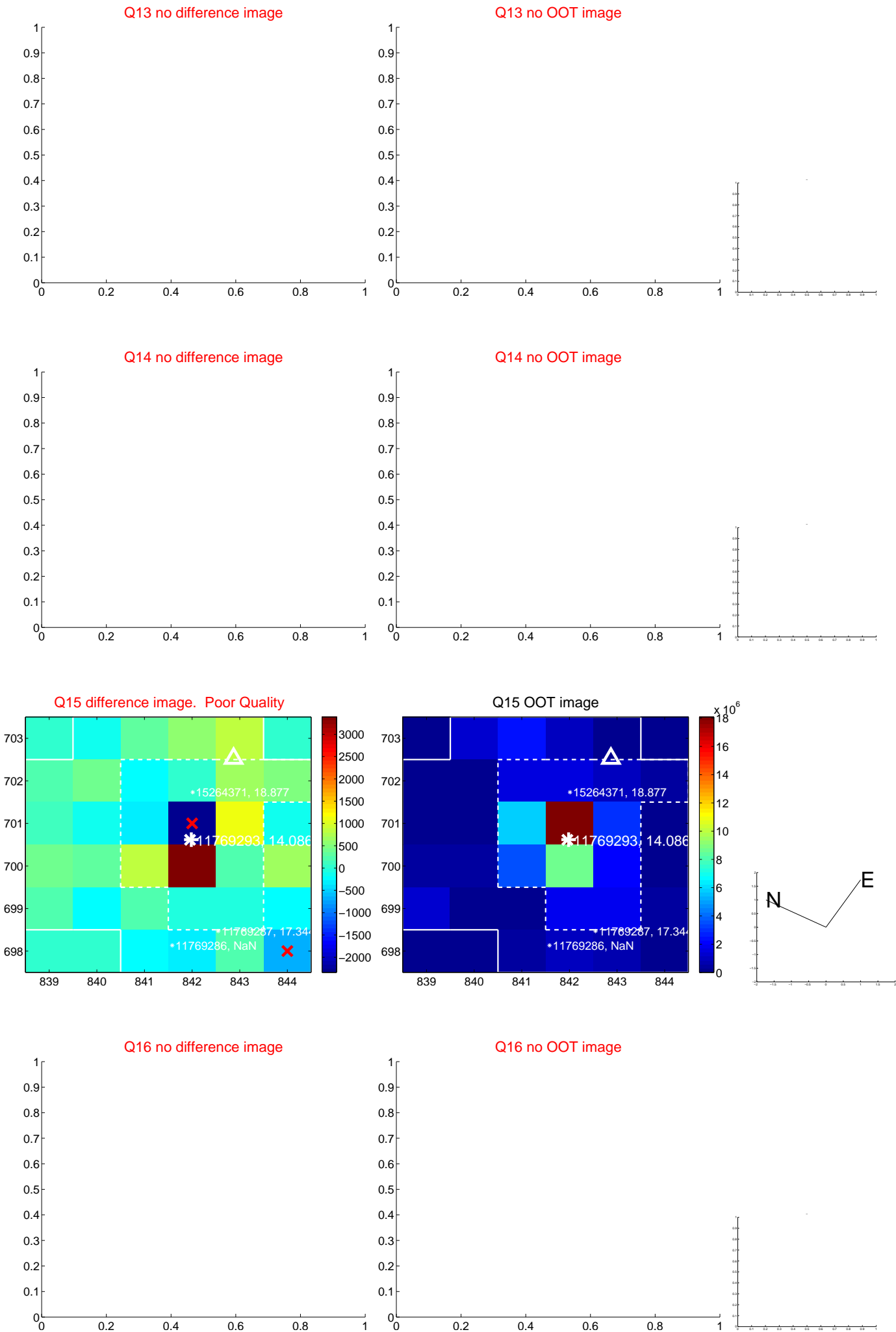
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



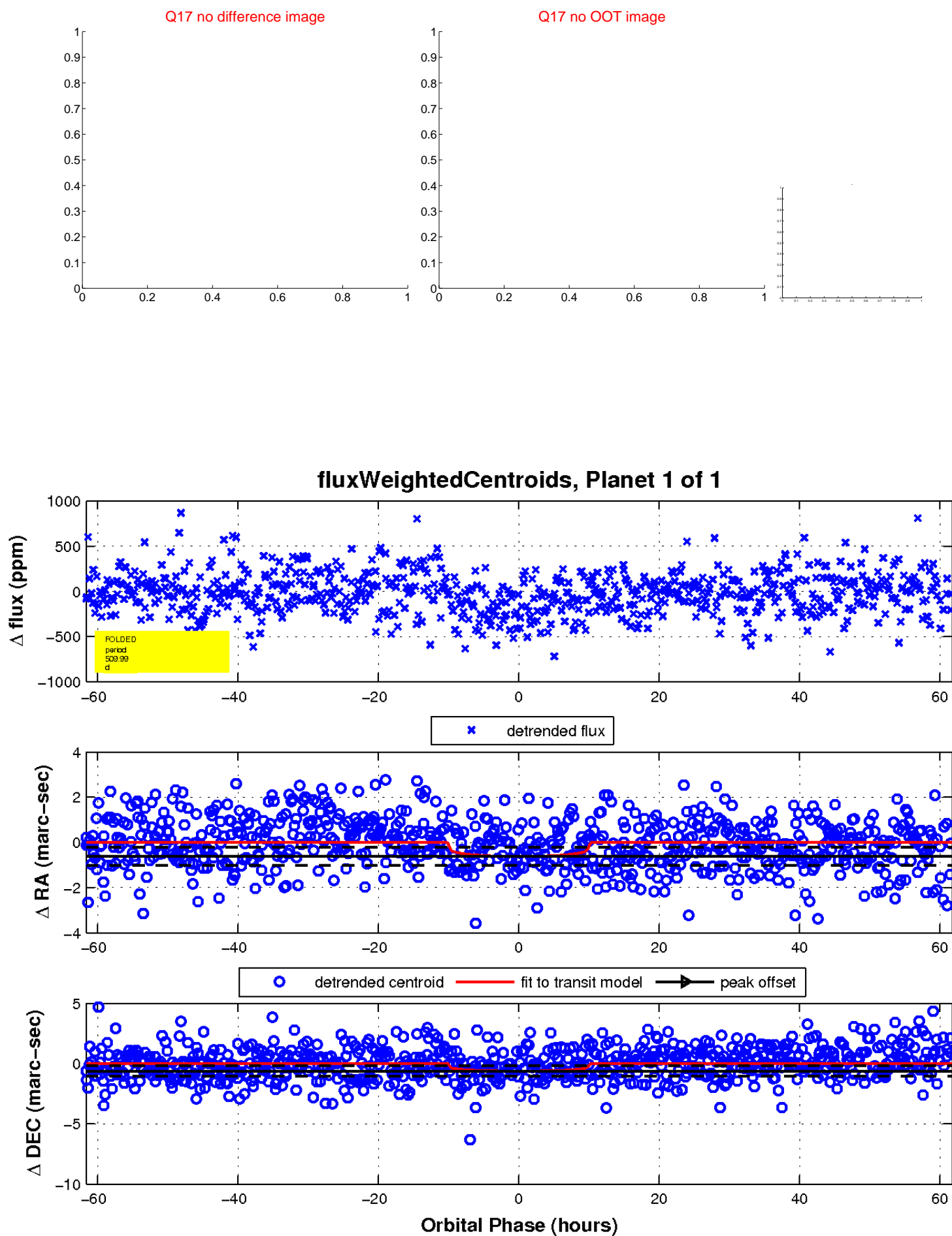
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



white \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

