

KIC 011773830

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})
011773830-01	OBS	No	1.930078	132.572655	28.8	5.651	7.9	7.5	4.82	6729	2.61	28894.03

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011773830-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—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.

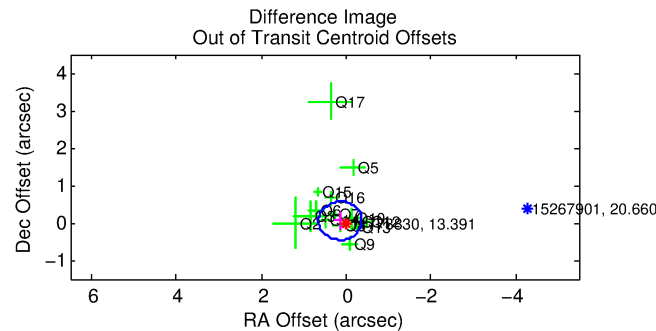
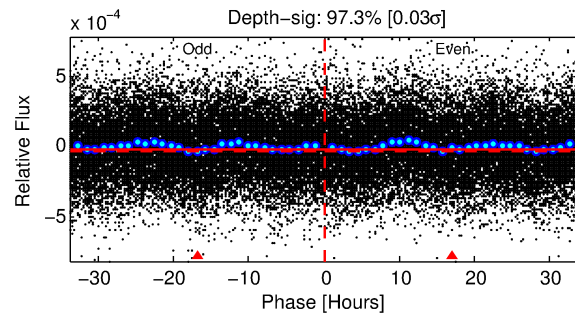
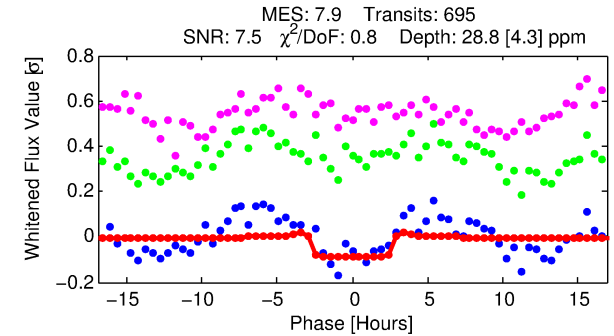
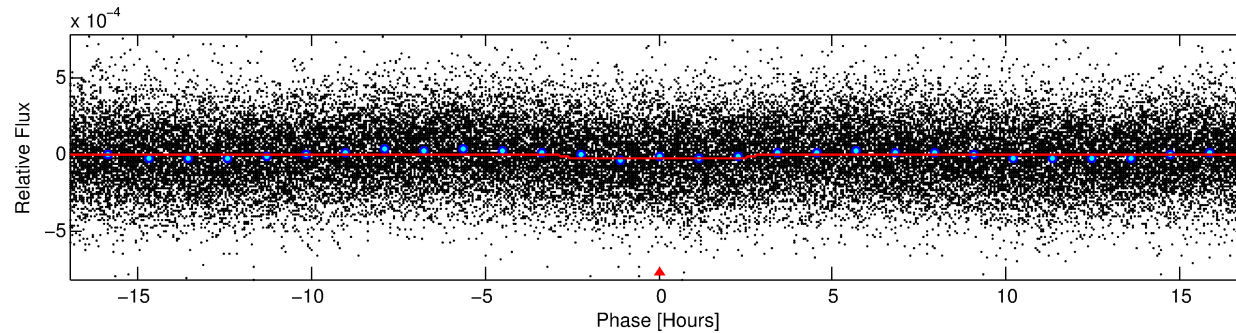
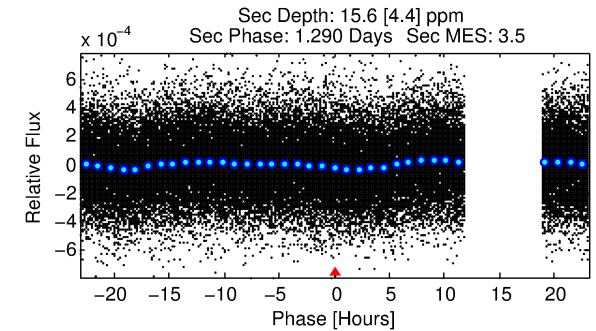
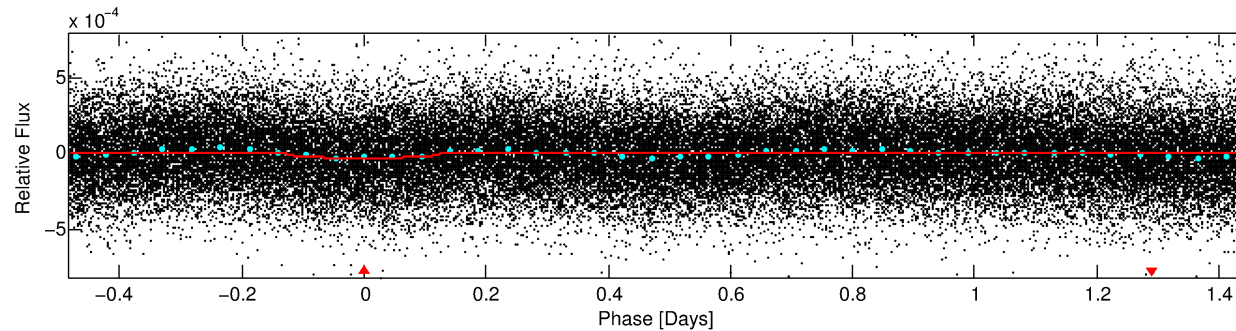
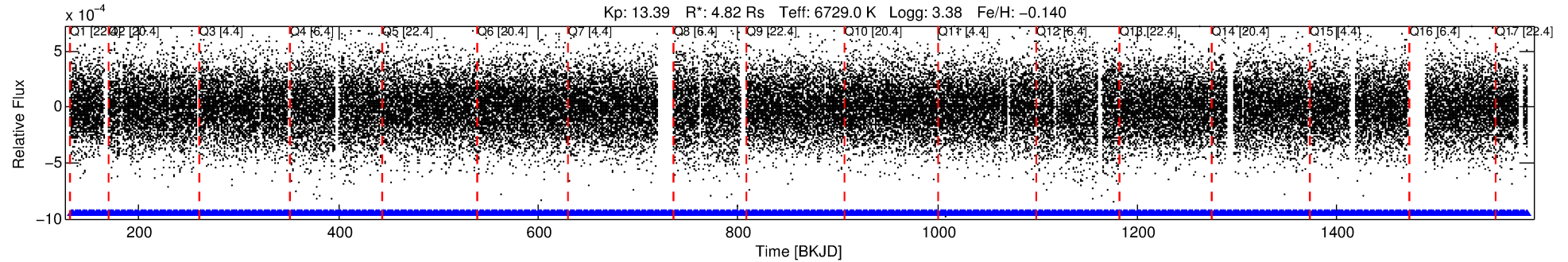
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011773830-01

No Significant Match Found

DV One-Page Summary

KIC: 11773830 Candidate: 1 of 1 Period: 1.930 d



DV Fit Results:

Period = 1.93008 [0.00002] d
Epoch = 132.5727 [0.0058] BKJD
Rp/R* = 0.0050 [0.0036]
a/R* = 2.69 [9.15]
b = 0.02 [260.65]
Seff = 28894.03 [19587.04]
Teq = 3325 [563] K
Rp = 2.61 [2.21] Re
a = 0.0385 [0.0160] AU
Ag = 1.86 [3.03] [0.28σ]
Teffp = 6004 [2237] K [1.16σ]

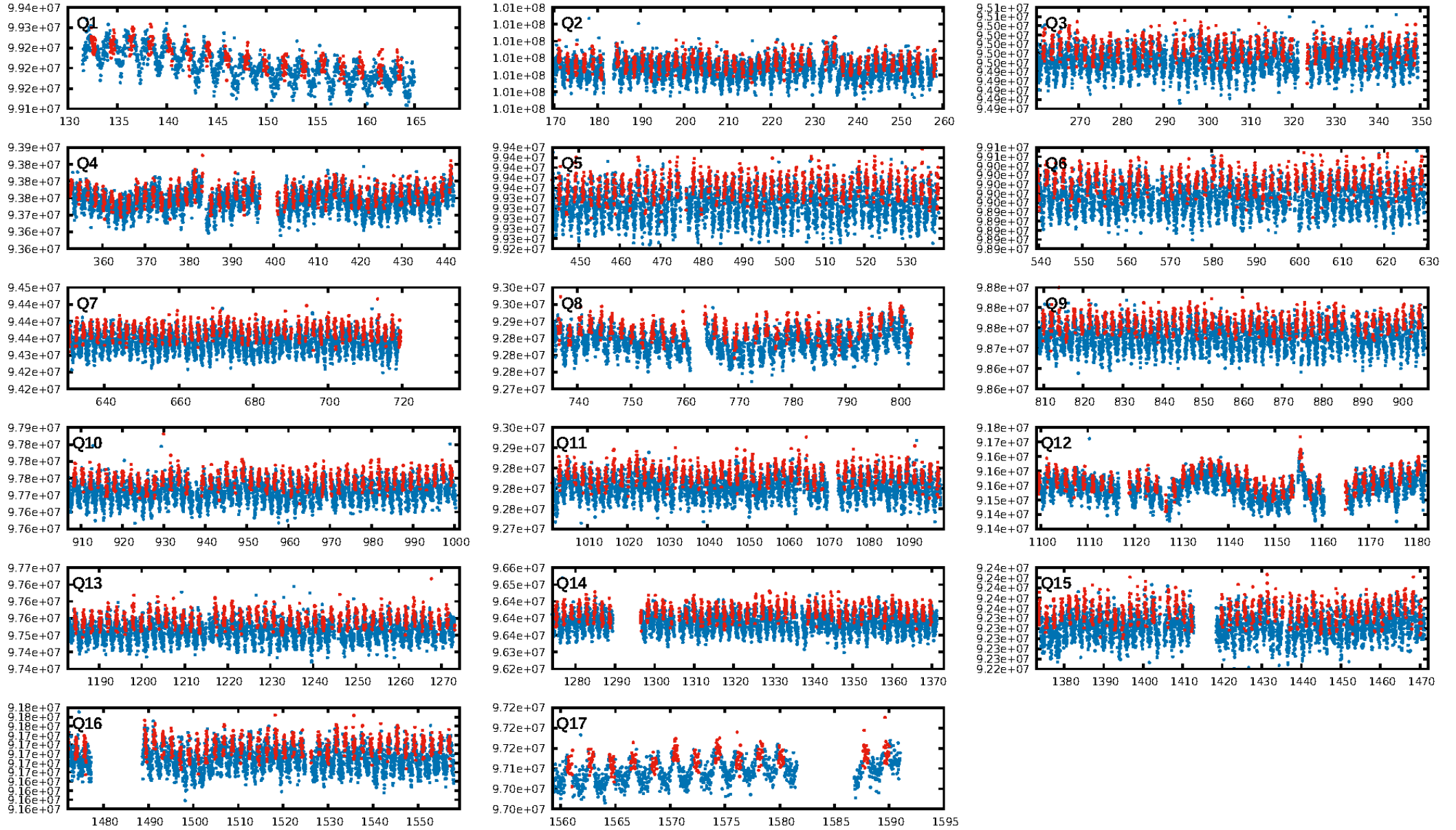
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.62e-12
RollingBand-fgt: 1.00 [665/665]
GhostDiagnostic-chr: 1.27
Centroid-sig: 1.1%
Centroid-so: 1.943 arcsec [2.16σ]
OotOffset-rm: 0.142 arcsec [0.84σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-rm: 0.067 arcsec [0.50σ]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.00 [0/15]
DiffImageOverlap-fno: 1.00 [17/17]

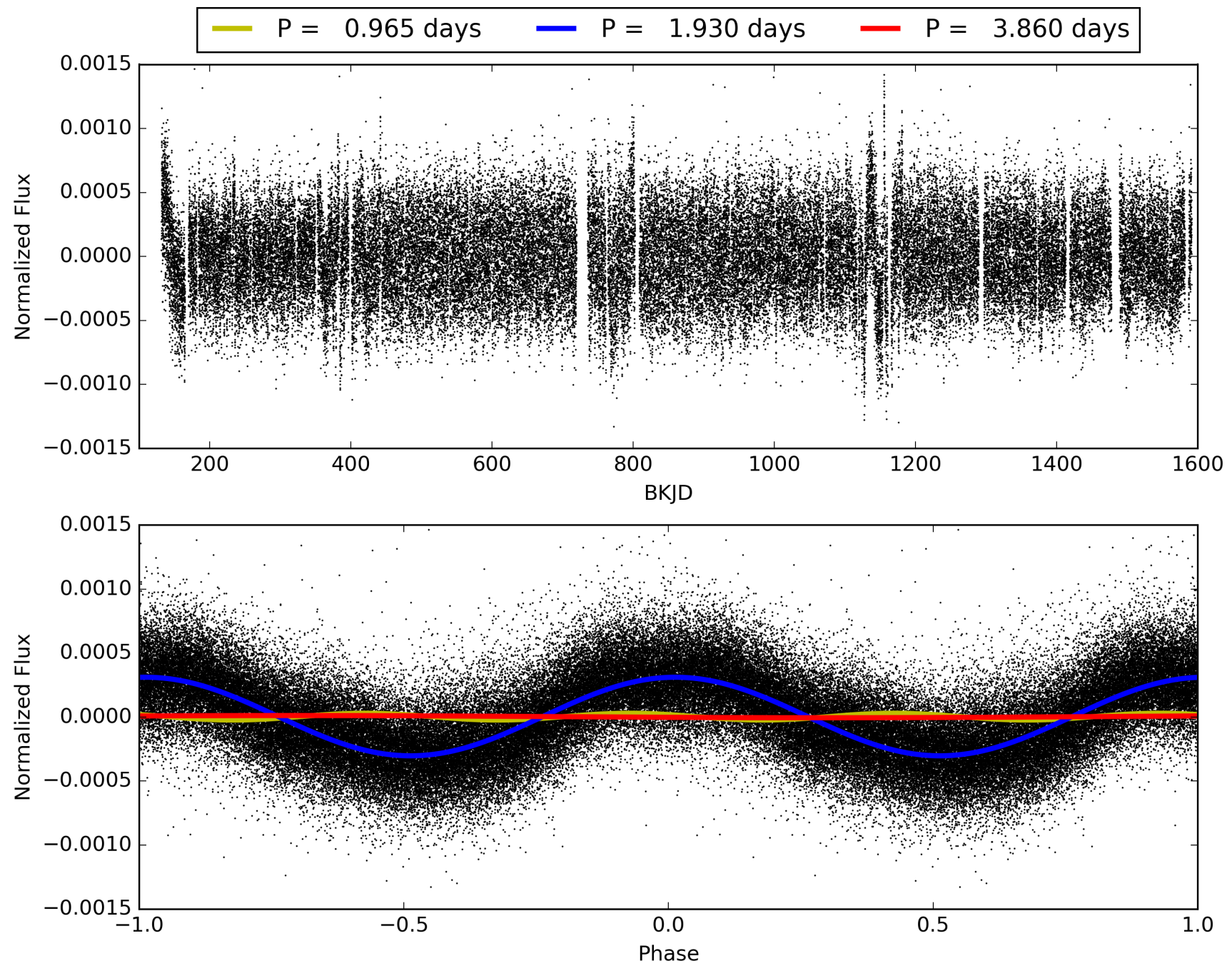
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 21:41:57 Z

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

TCE 011773830-01, PDC Light Curves

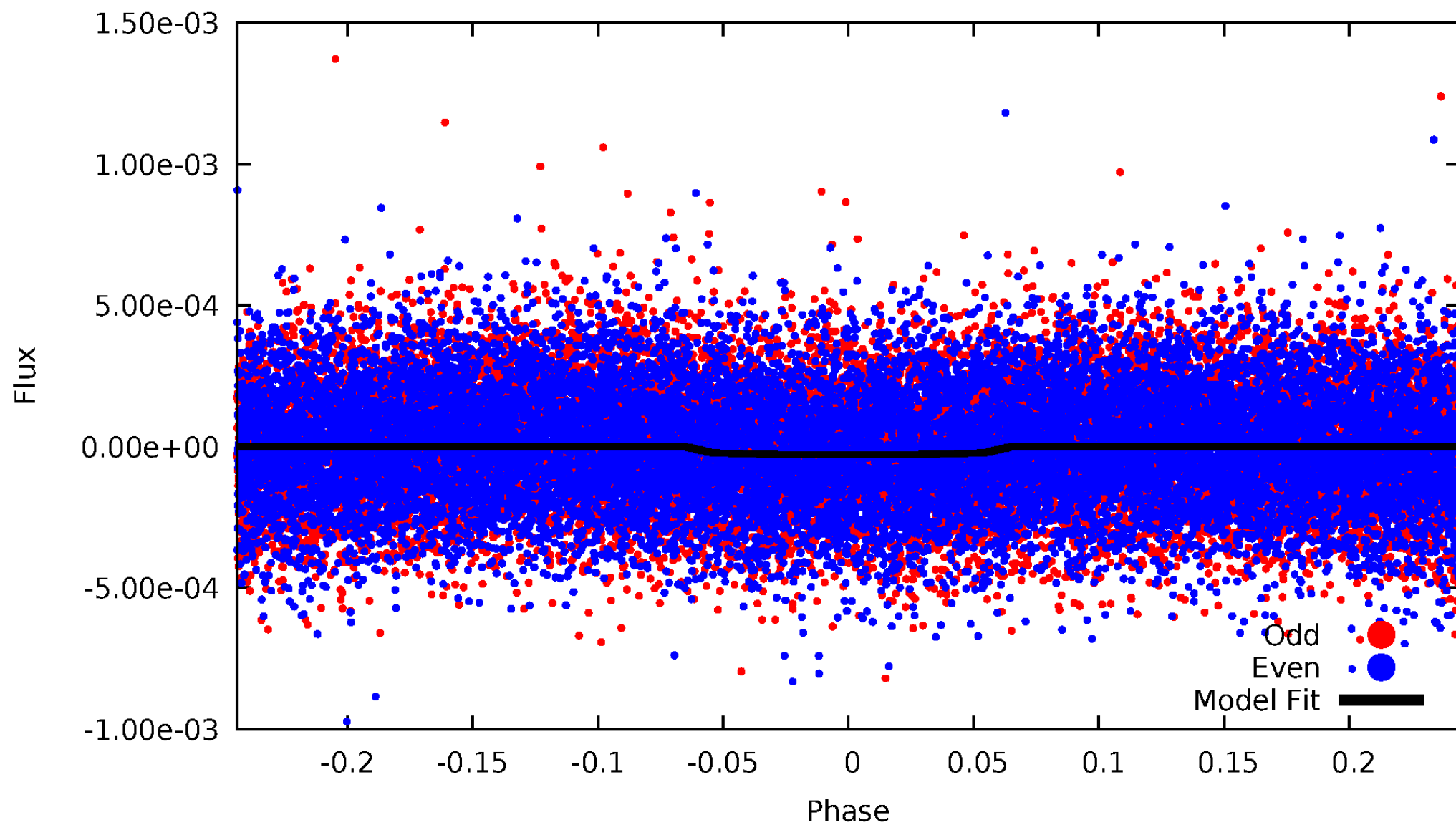


TCE 011773830-01



DV Odd/Even

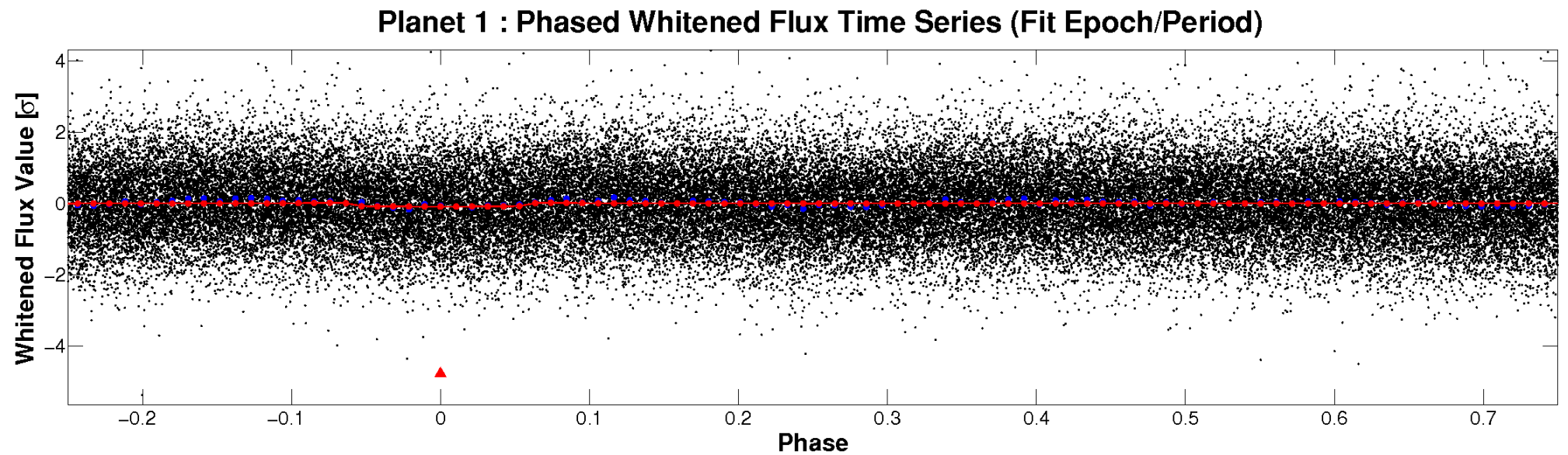
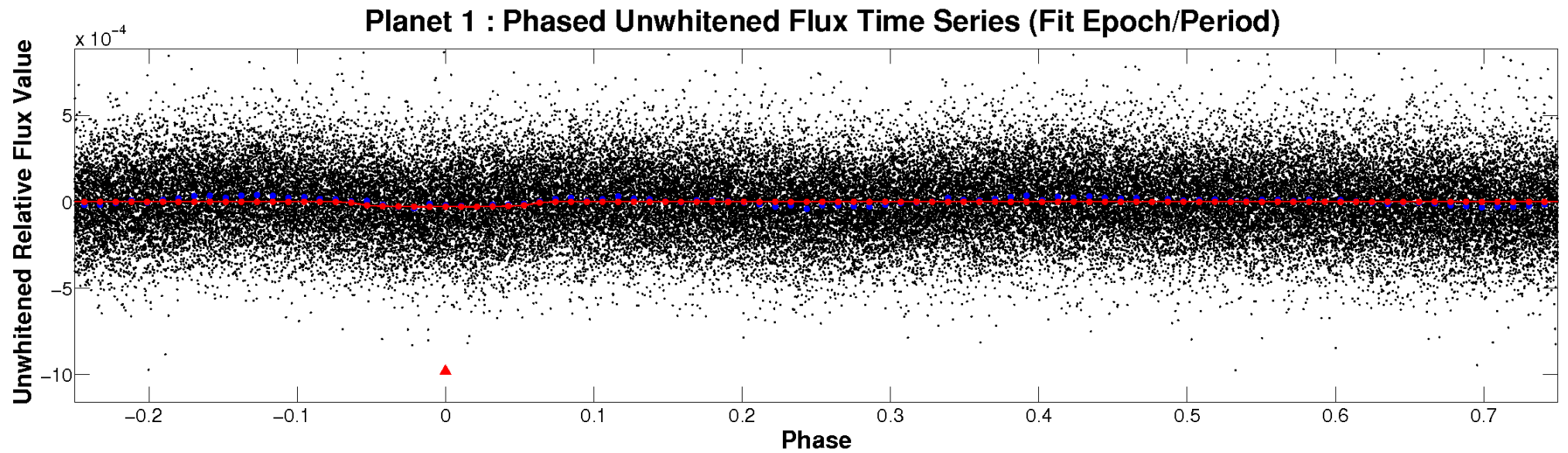
TCE 011773830-01



ALT Odd/Even

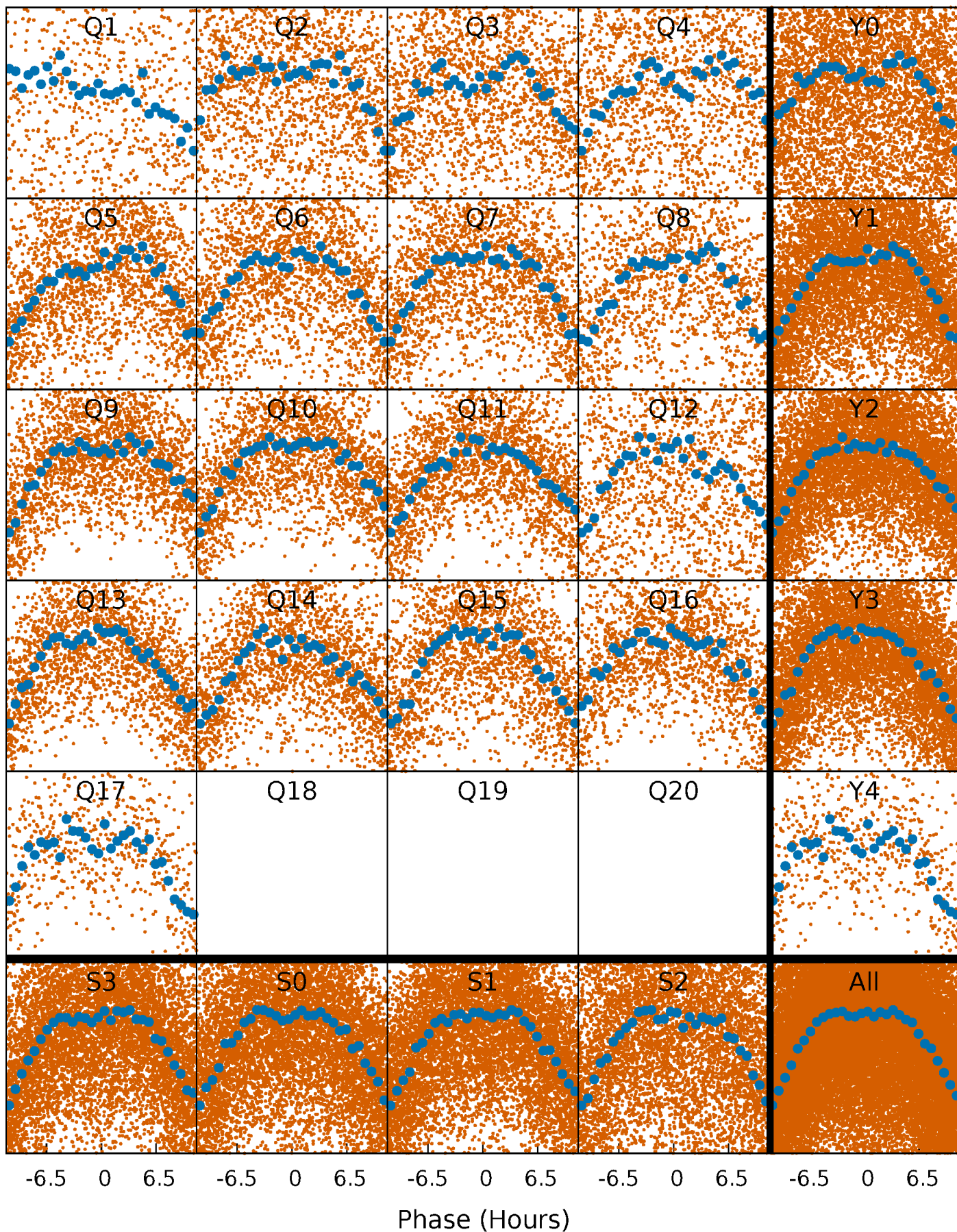
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve



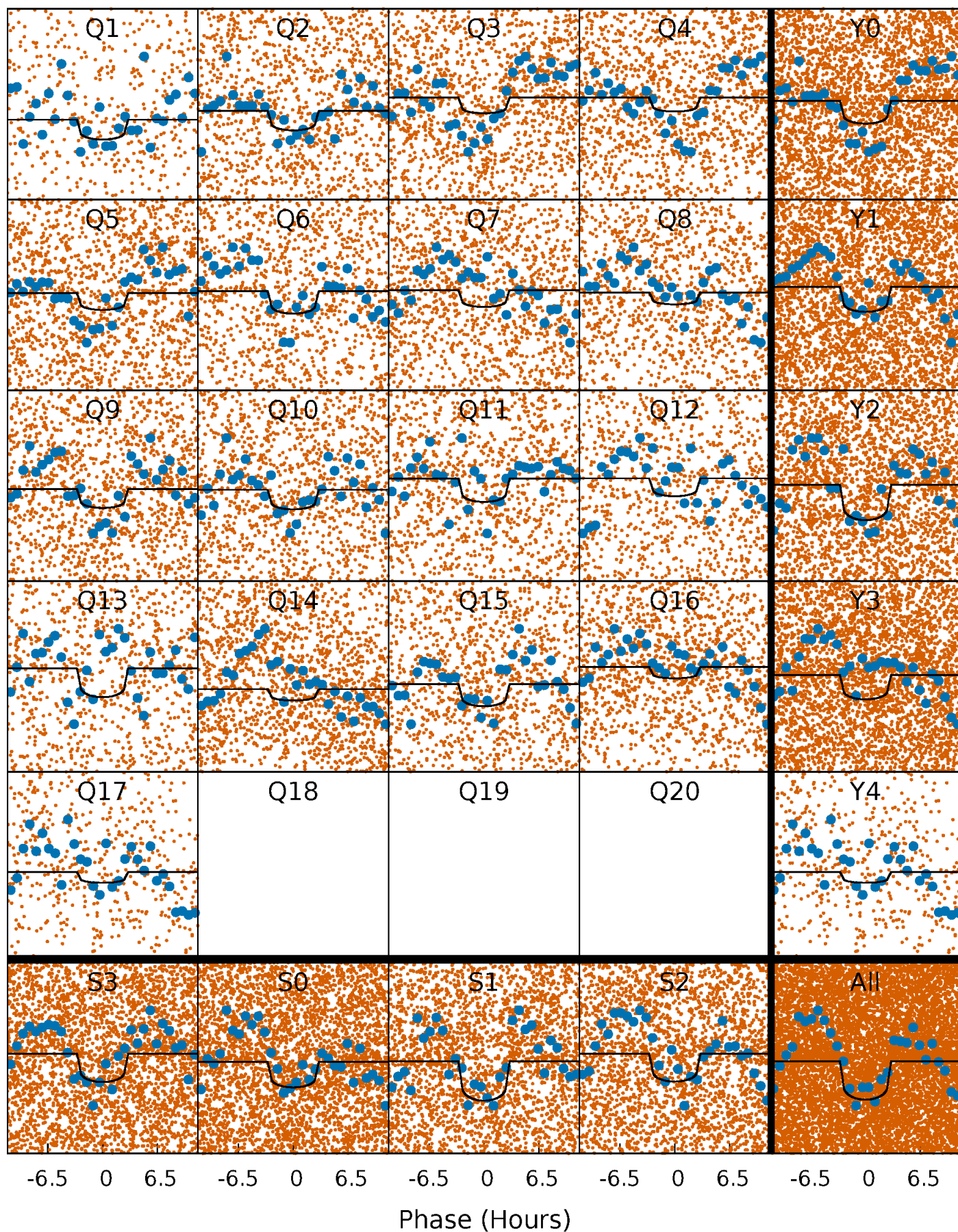
PDC Quarter-Phased Transit Curves

TCE 011773830-01 P= 1.930078 Days $T_0=132.572655$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011773830-01 P= 1.930078 Days $T_0=132.572655$ (BKJD)

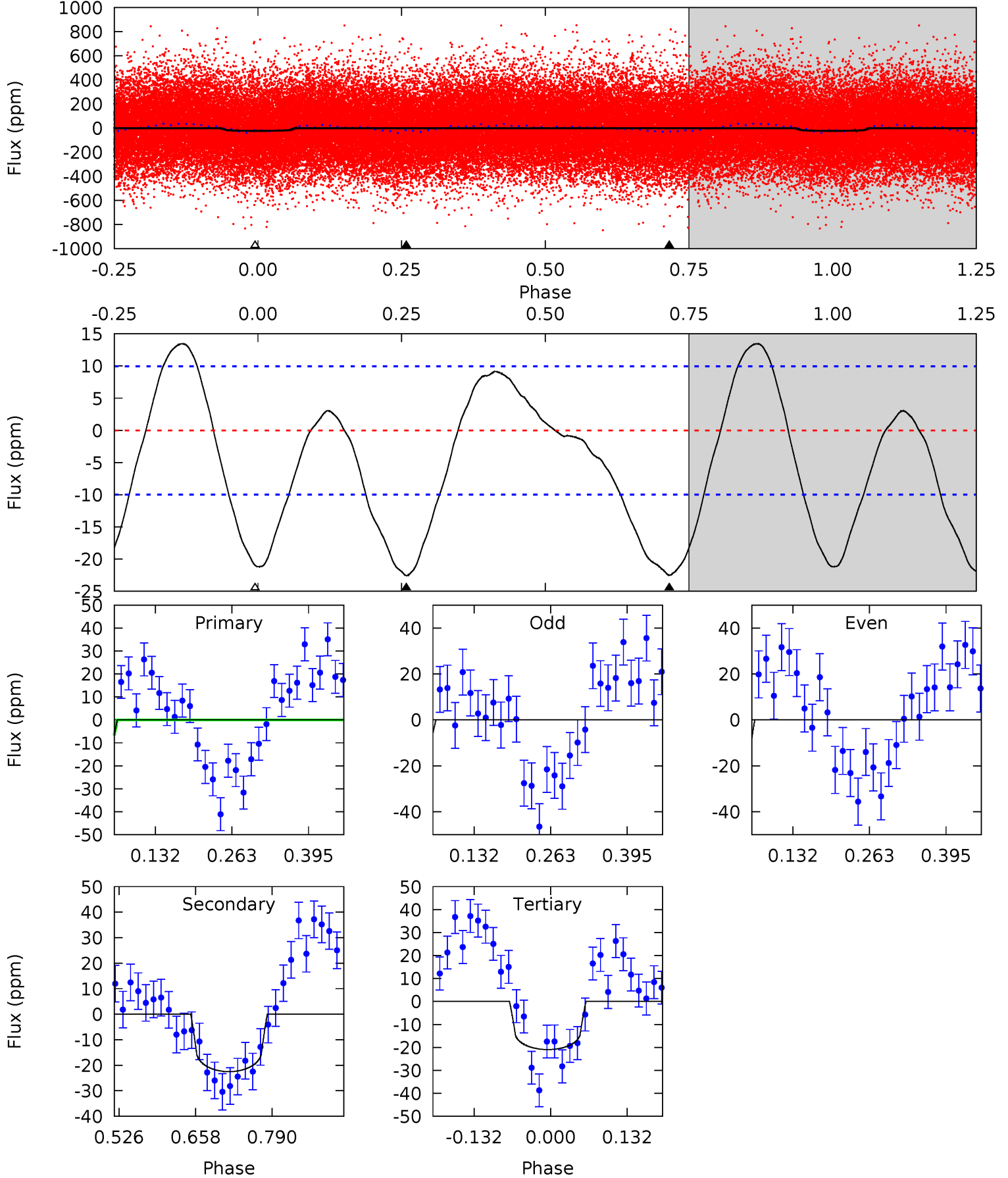


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011773830-01, P = 1.930078 Days, E = 130.642577 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	10.2	9.47	0	4.51	1.51	4.44	0.73	10.2	0.70	10.2	1.92	0.97	0.37	0.43



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011773830

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6729^{+160}_{-220}	$3.380^{+0.391}_{-0.069}$	$-0.140^{+0.300}_{-0.250}$	$4.823^{+0.366}_{-2.074}$	$2.034^{+0.099}_{-0.421}$	$0.026^{+0.086}_{-0.004}$
	+2%/-3%	+12%/-2%	+214%/-179%	+8%/-43%	+5%/-21%	+338%/-15%
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 011773830-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-23 ± 2	$2.53^{+1.89}_{-1.55}$	4568^{+224}_{-512}	6127^{+5441}_{-1508}	$2.782^{+15.784}_{-1.866}$
Alt.	N/A	N/A	N/A	N/A	N/A

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

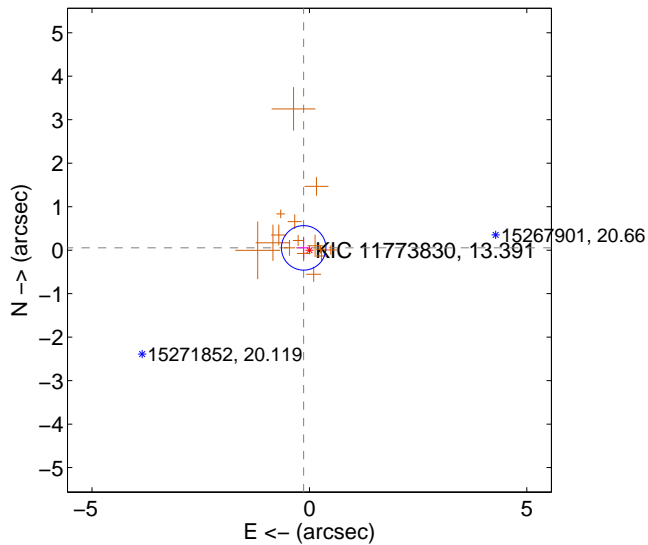
Supplemental centroid analysis for 011773830-01. Kepler magnitude: 13.39. Transit SNR 7.48

There are 0 quarters with good PRF difference image offsets

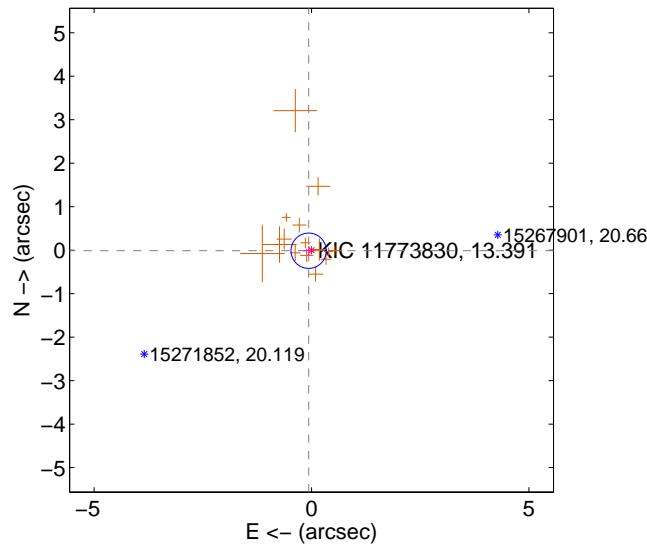
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.142 ± 0.171	0.84	0.132 ± 0.144	0.053 ± 0.238
PRF-fit source offset from KIC position	0.067 ± 0.135	0.50	0.066 ± 0.136	-0.013 ± 0.108
photometric centroid source offset	1.94 ± 0.90	2.16	1.56 ± 0.91	1.15 ± 0.88

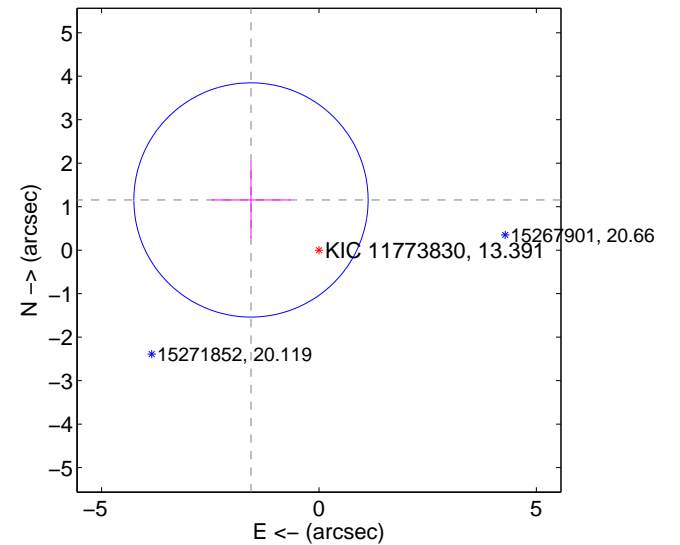
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

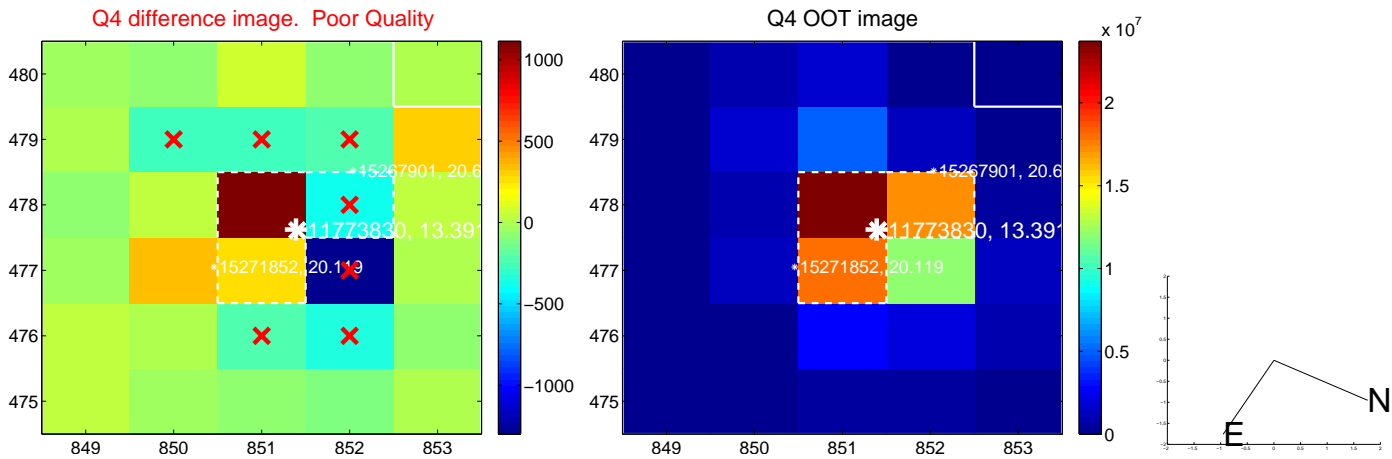
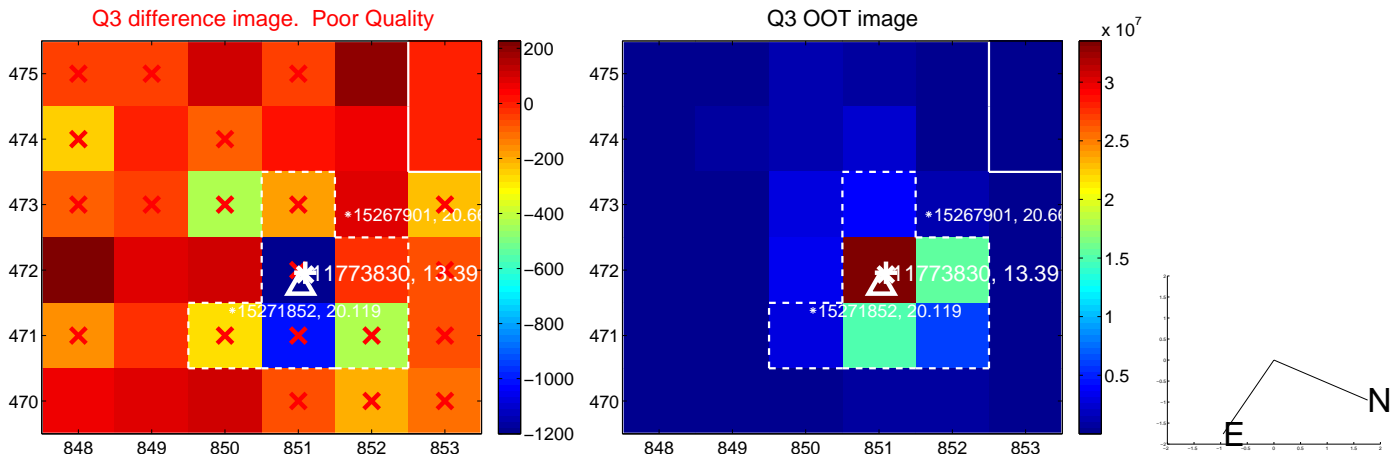
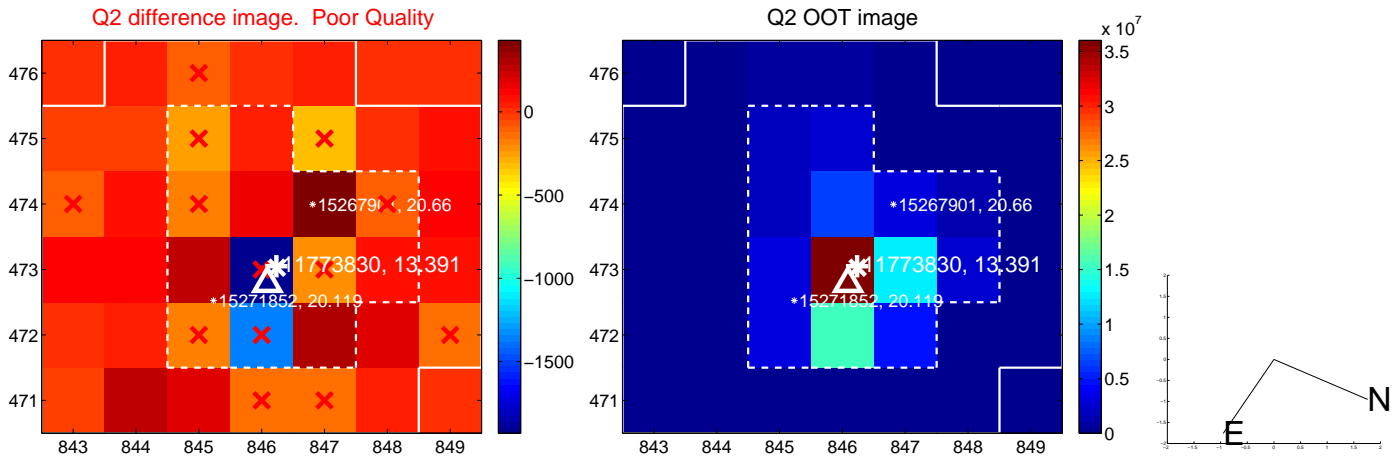
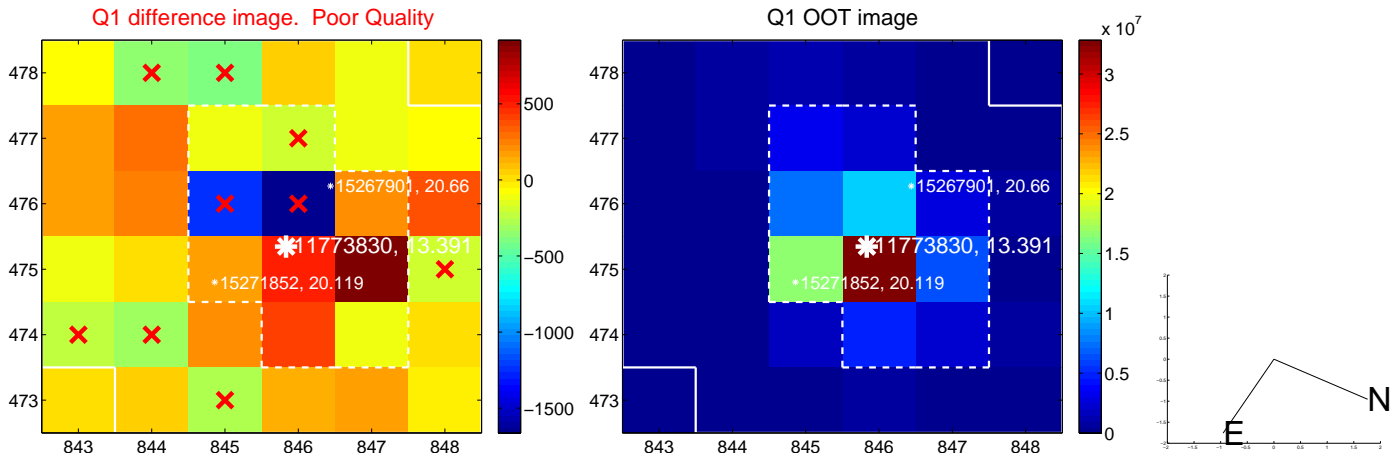


offset from photometric centroids

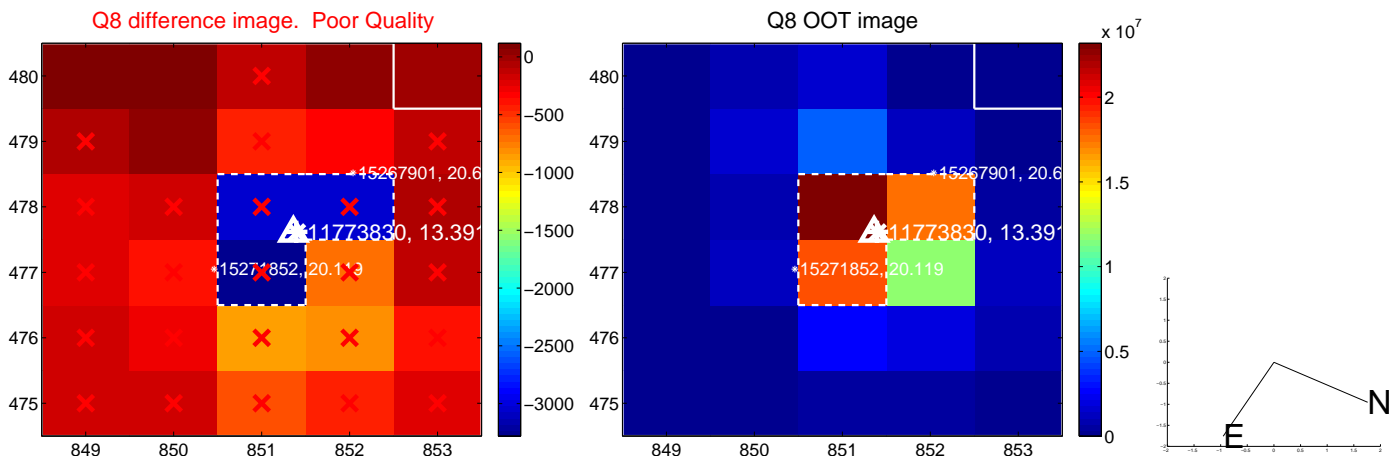
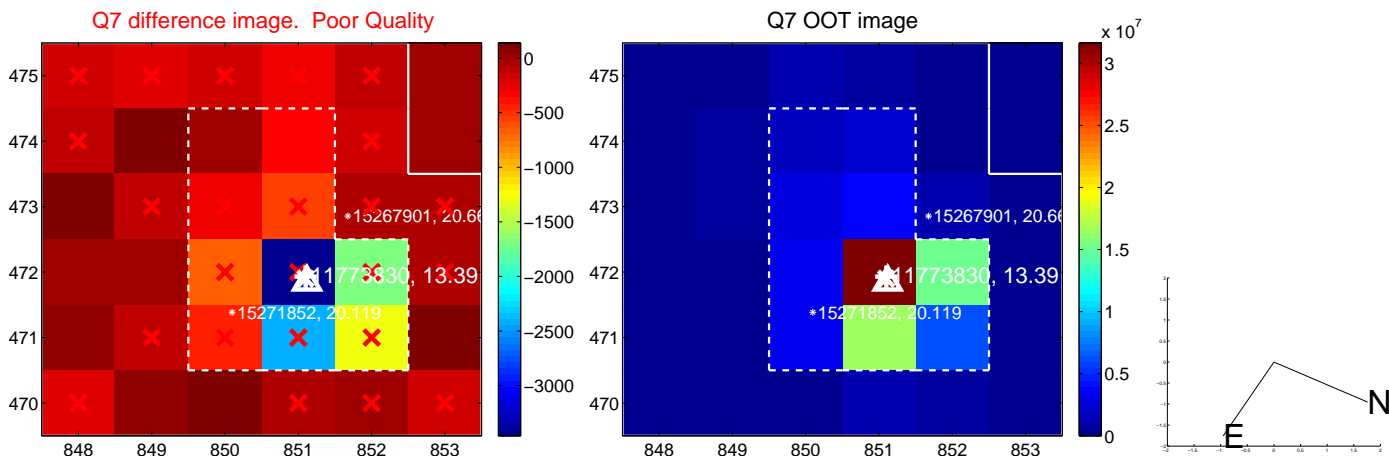
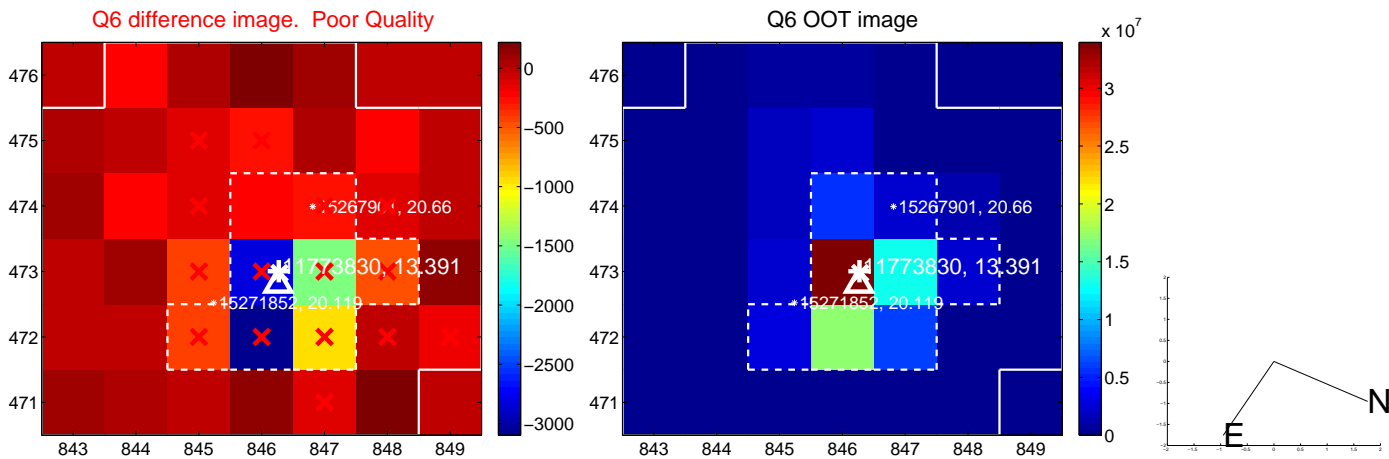
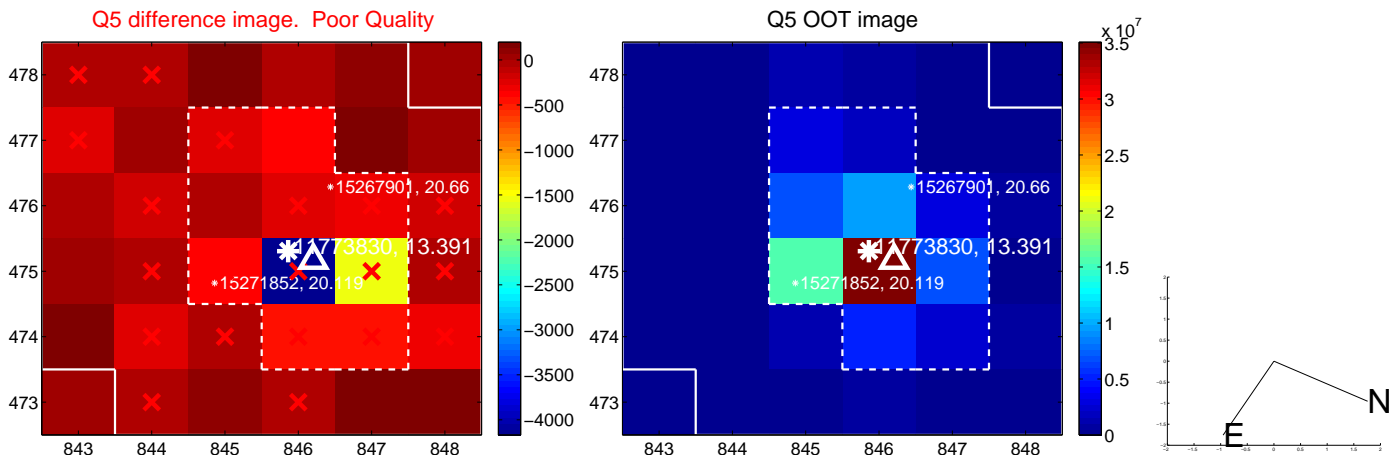


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

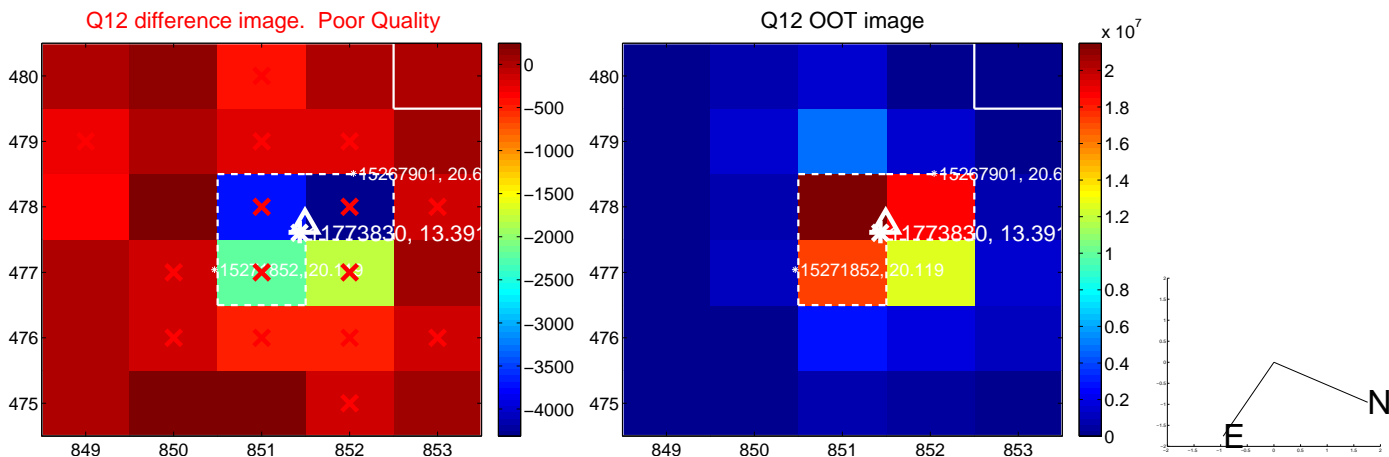
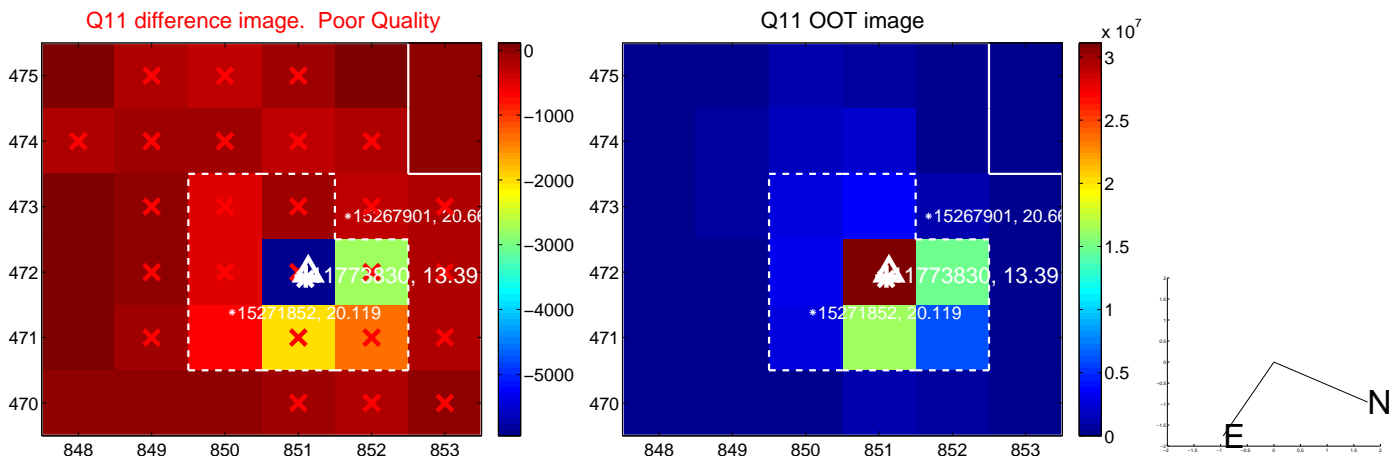
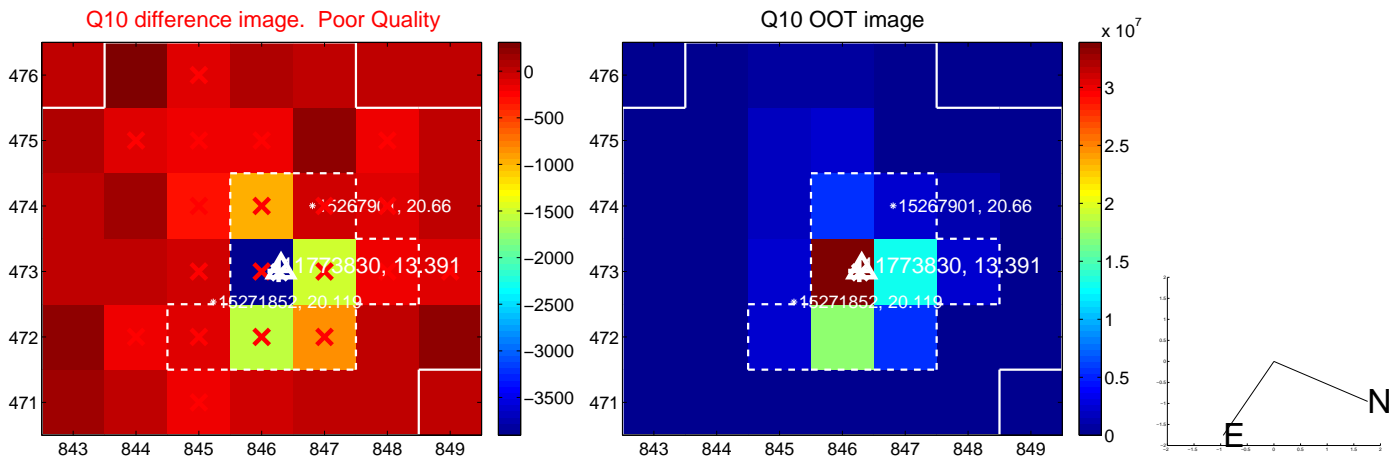
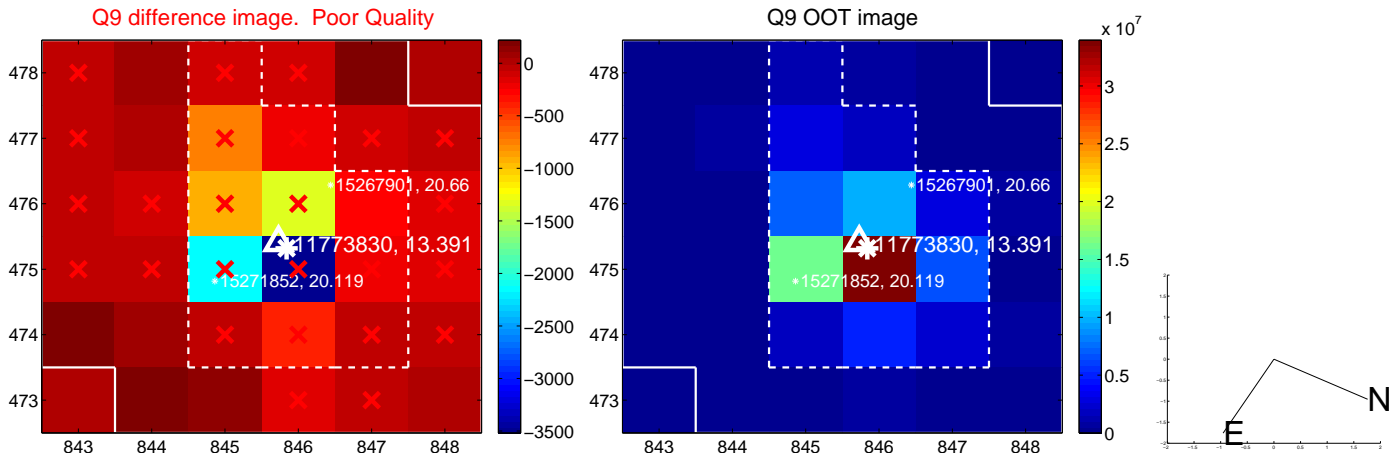
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



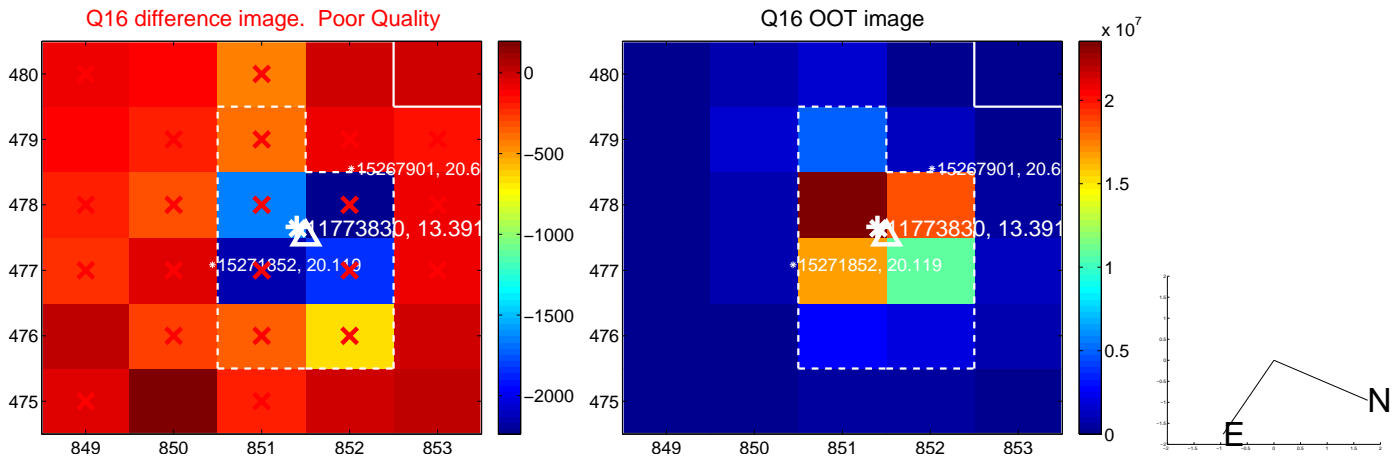
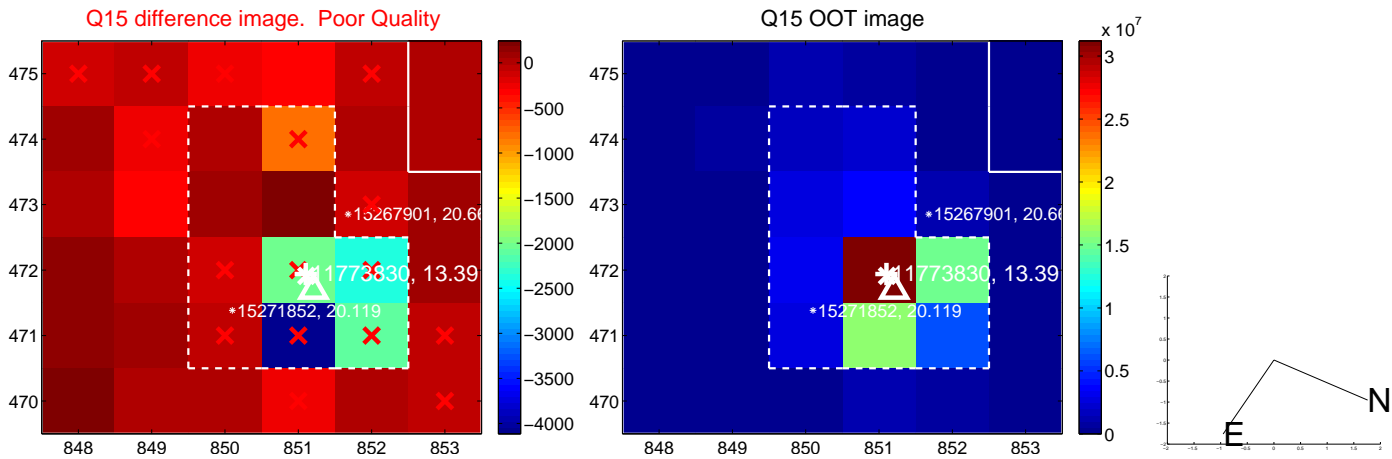
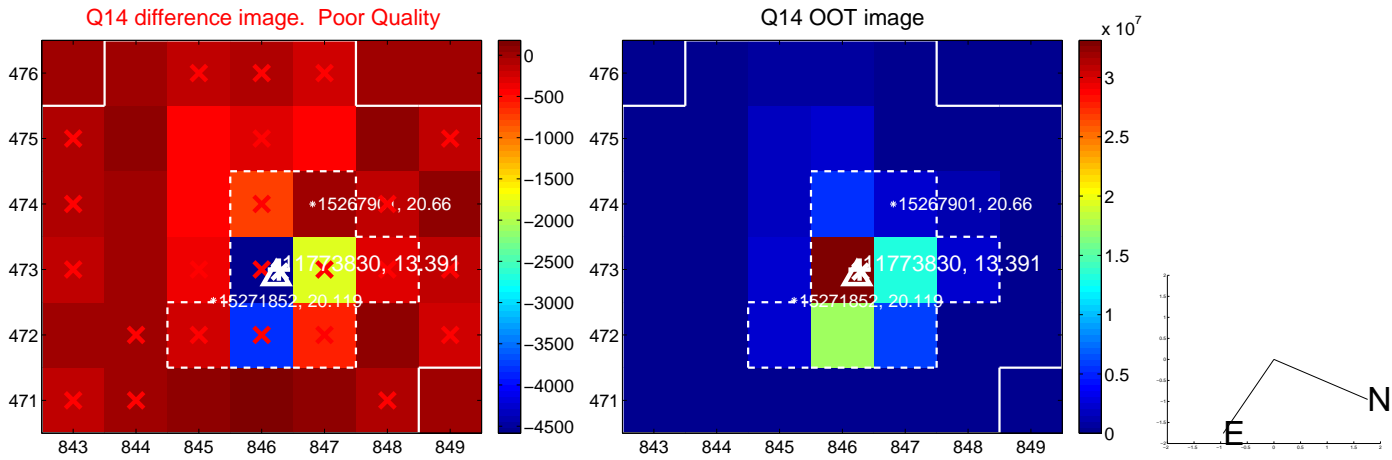
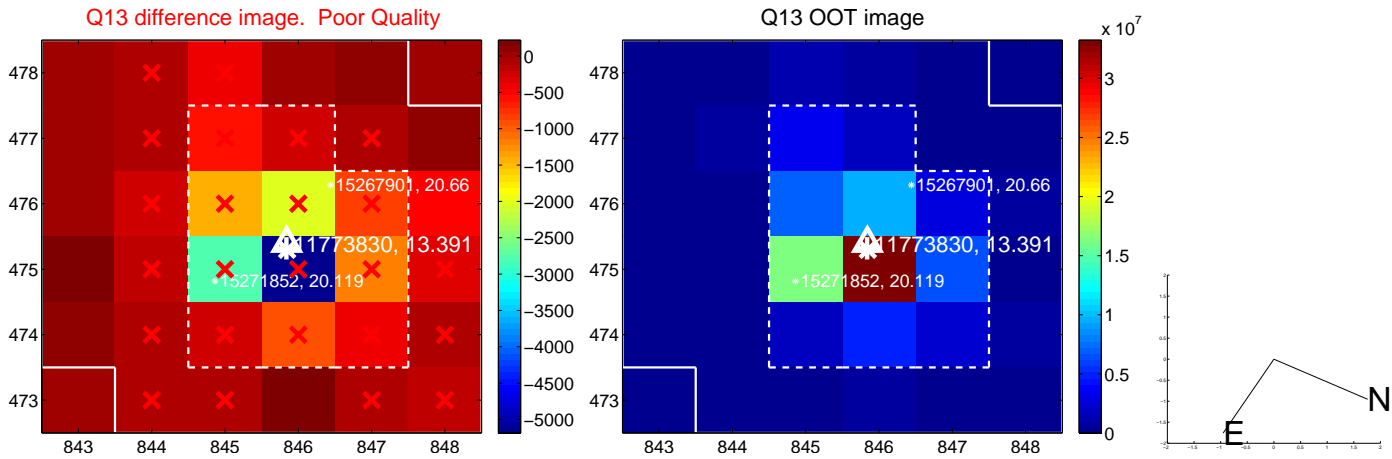
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



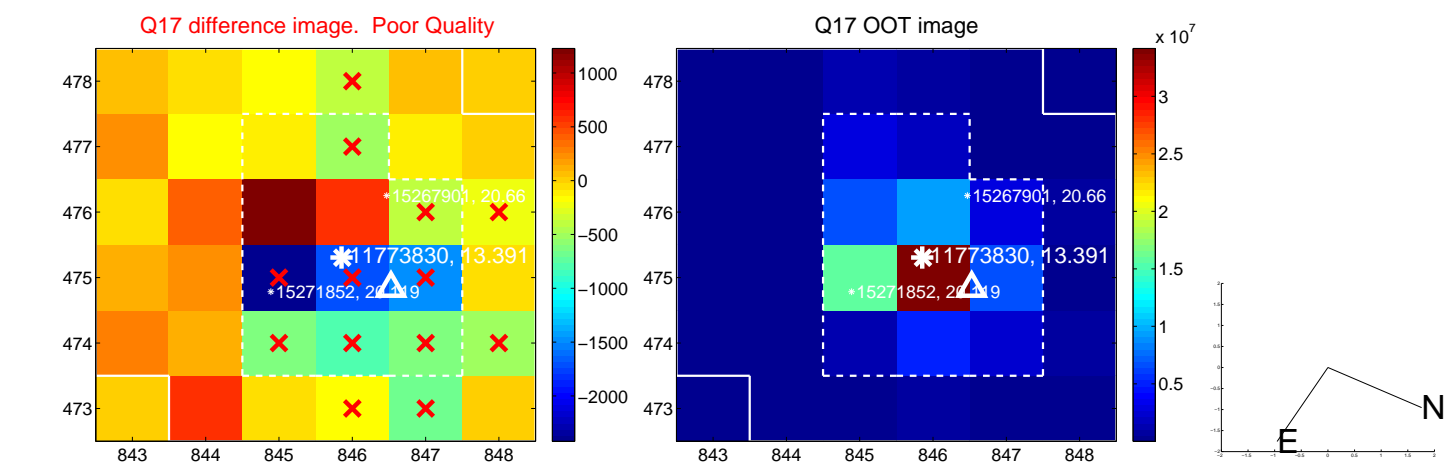
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



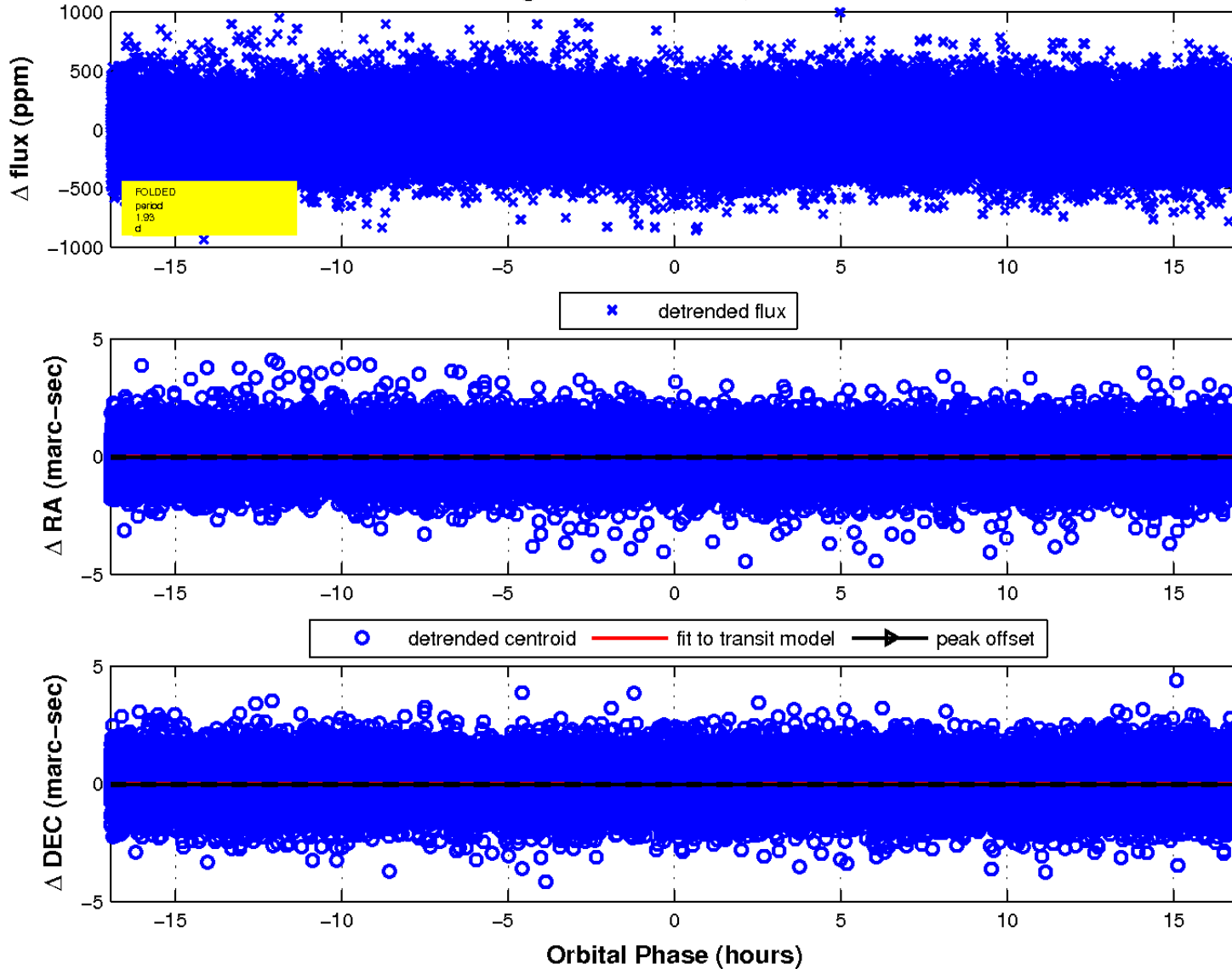
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

