

KIC 011495417

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})
011495417-01	OBS	No	443.814715	545.184781	596.7	22.664	9.7	9.9	0.78	5341	2.28	0.42

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011495417-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—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.

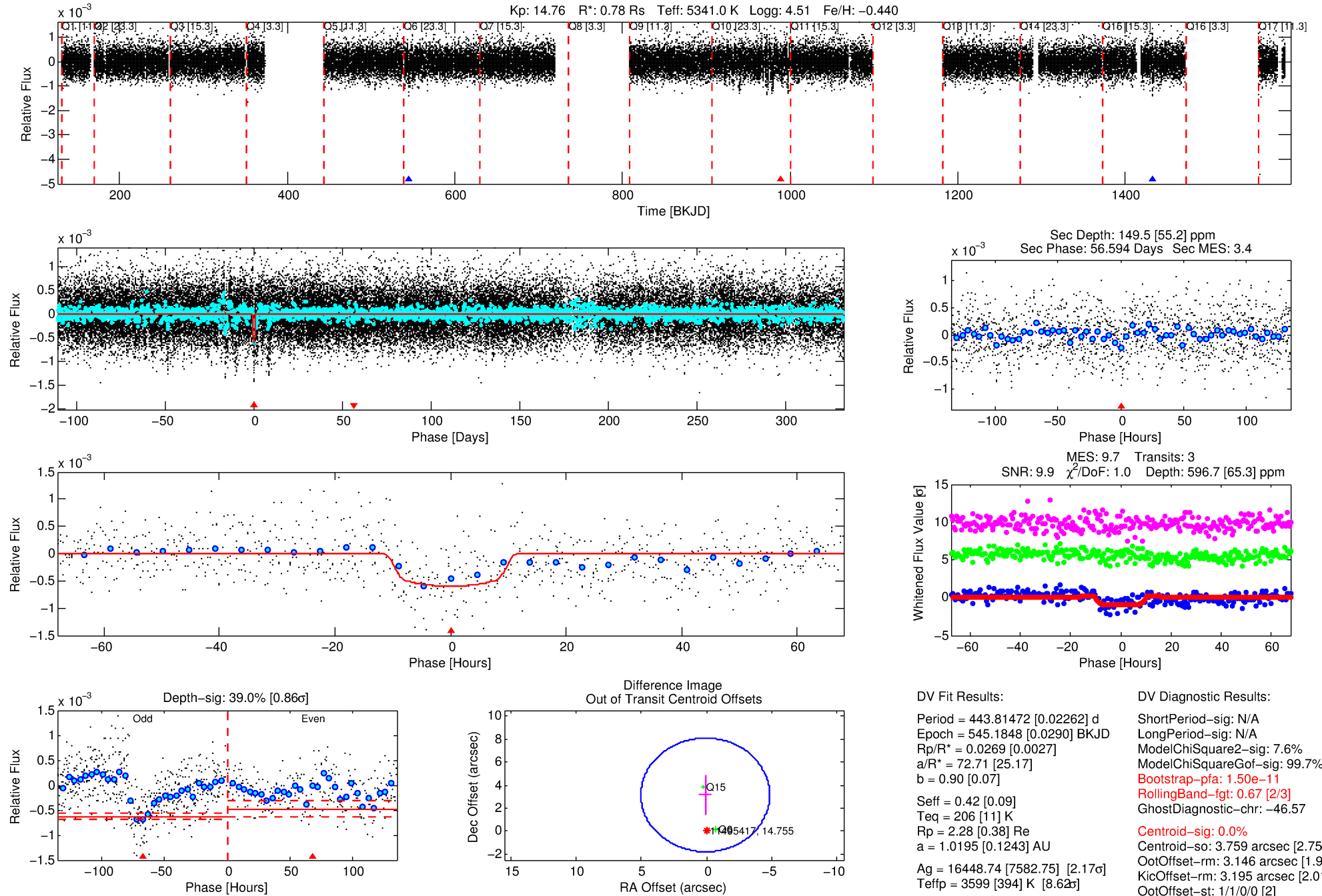
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011495417-01

No Significant Match Found

DV One-Page Summary

KIC: 11495417 Candidate: 1 of 1 Period: 443.815 d



DV Fit Results:

Period = 443.81472 [0.02262] d
Epoch = 545.1848 [0.0290] BKJD
Rp/R* = 0.0269 [0.0027]
a/R* = 72.71 [25.17]
b = 0.90 [0.07]
Seff = 0.42 [0.09]
Teq = 206 [11] K
Rp = 2.28 [0.38] Re
a = 1.0195 [0.1243] AU
Ag = 16448.74 [7582.75] [2.17 σ]
Teffp = 3599 [394] K [8.62 σ]

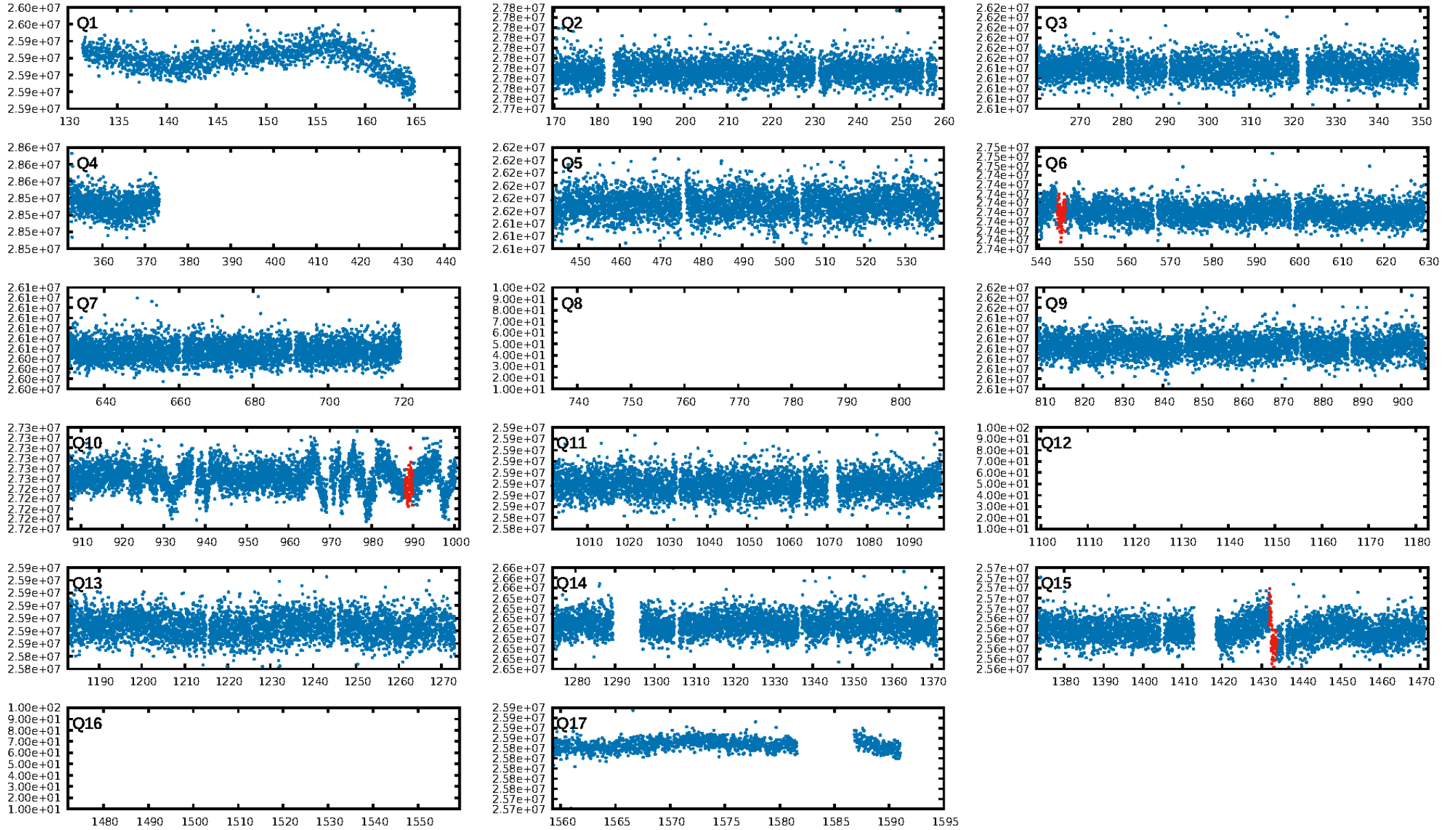
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 7.6%
ModelChiSquareGof-sig: 99.7%
Bootstrap-pfa: 1.50e-11
RollingBand-fgt: 0.67 [2/3]
GhostDiagnostic-chr: -46.57
Centroid-sig: 0.0%
Centroid-so: 3.759 arcsec [2.75 σ]
OotOffset-rm: 3.146 arcsec [1.91 σ]
OotOffset-st: 1/1/0/0 [2]
KicOffset-rm: 3.195 arcsec [2.01 σ]
KicOffset-st: 1/1/0/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

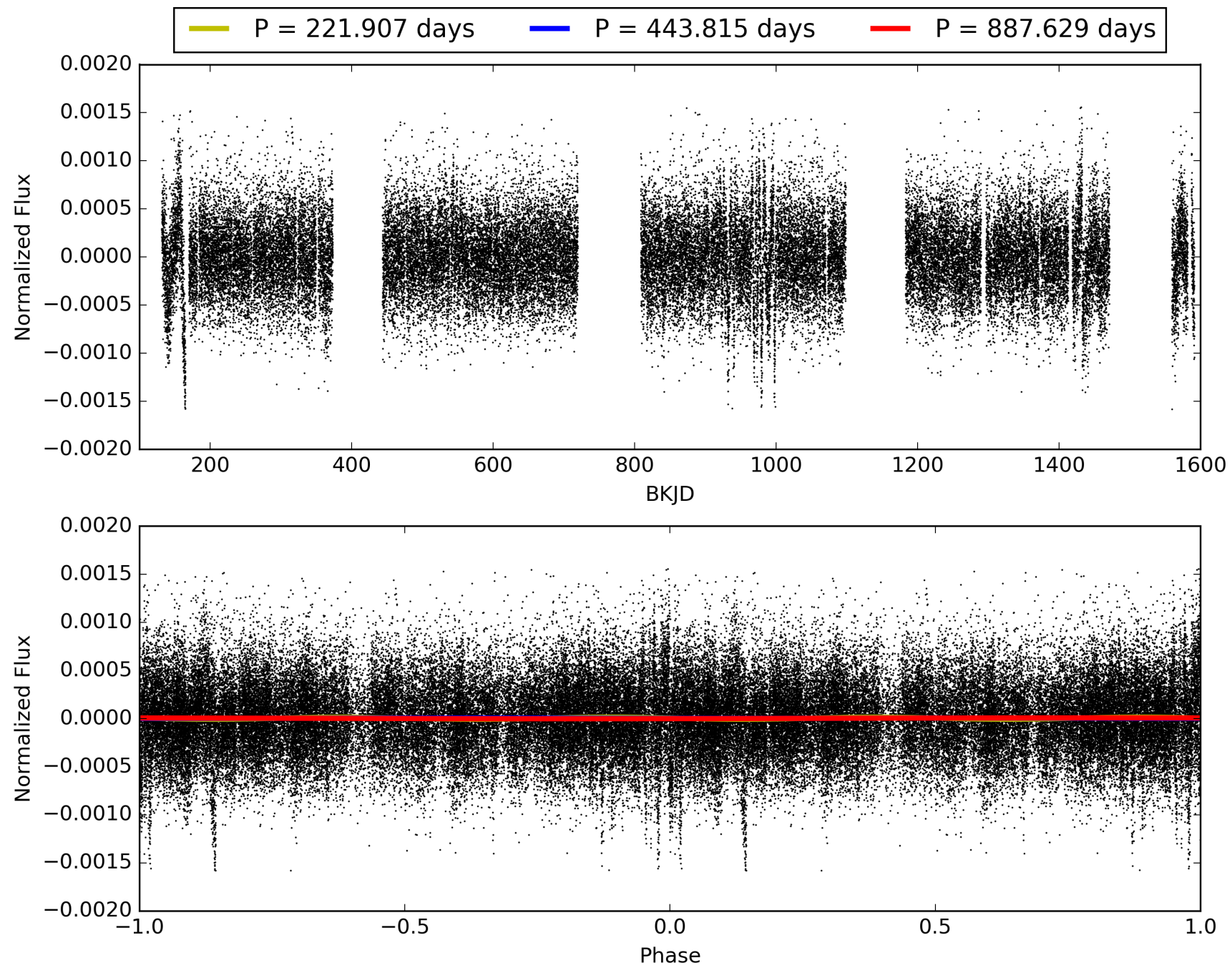
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 19:54:25 Z

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

TCE 011495417-01, PDC Light Curves

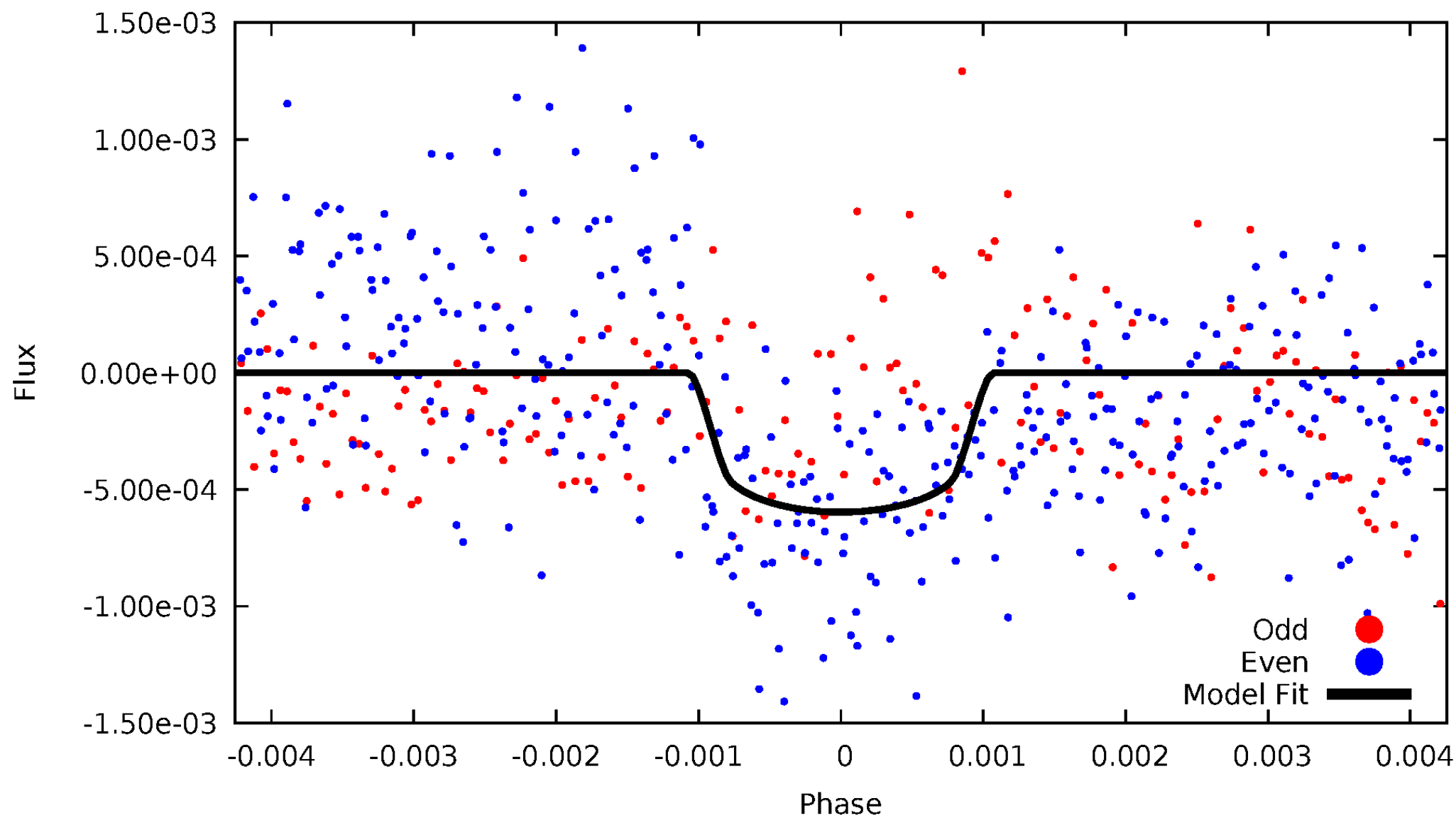


TCE 011495417-01



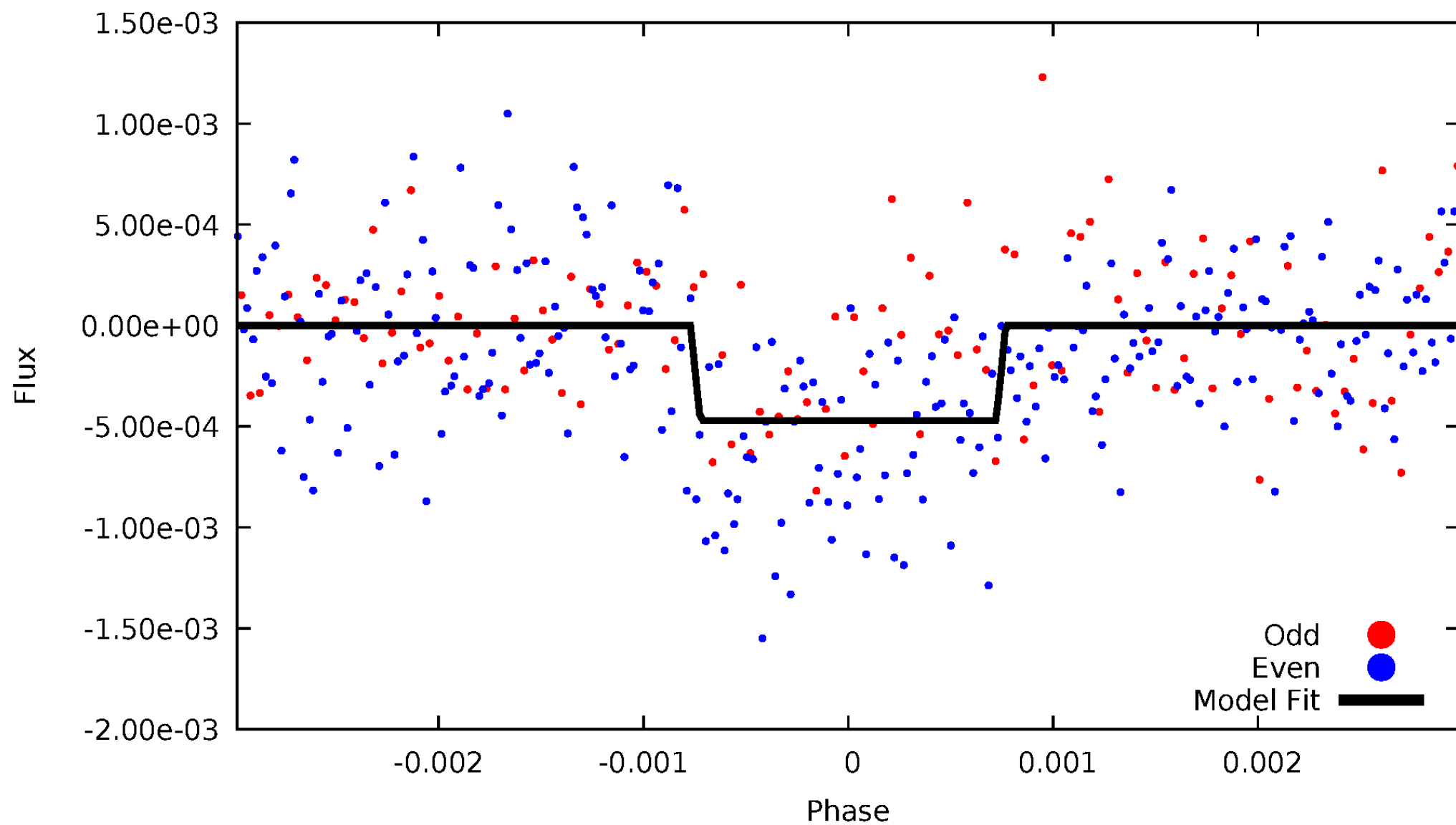
DV Odd/Even

TCE 011495417-01



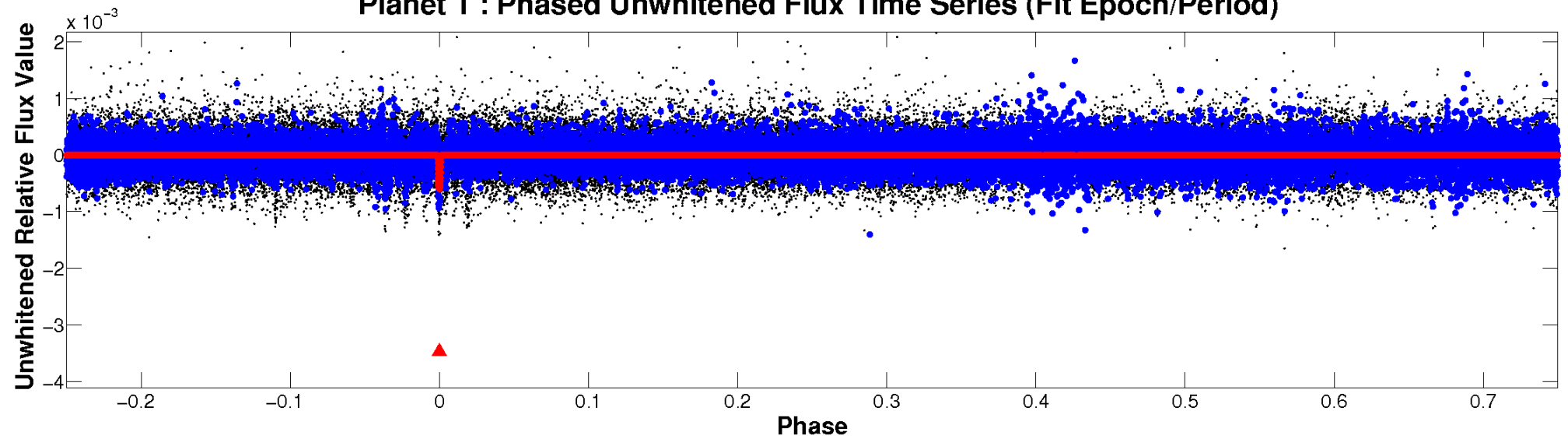
ALT Odd/Even

TCE 011495417-01

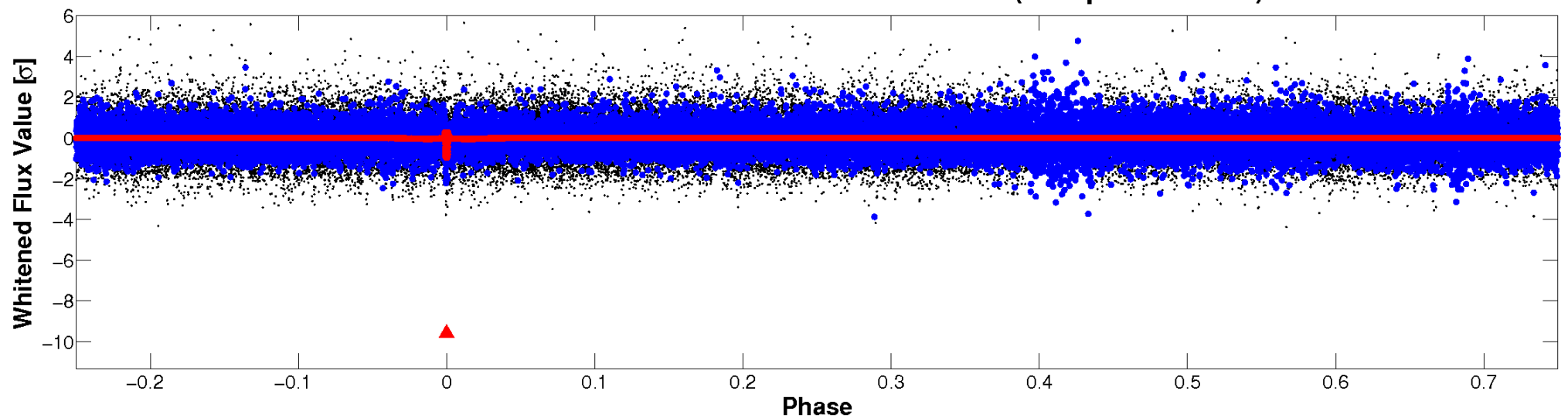


Non-Whitened Vs. Whitened Light Curve

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

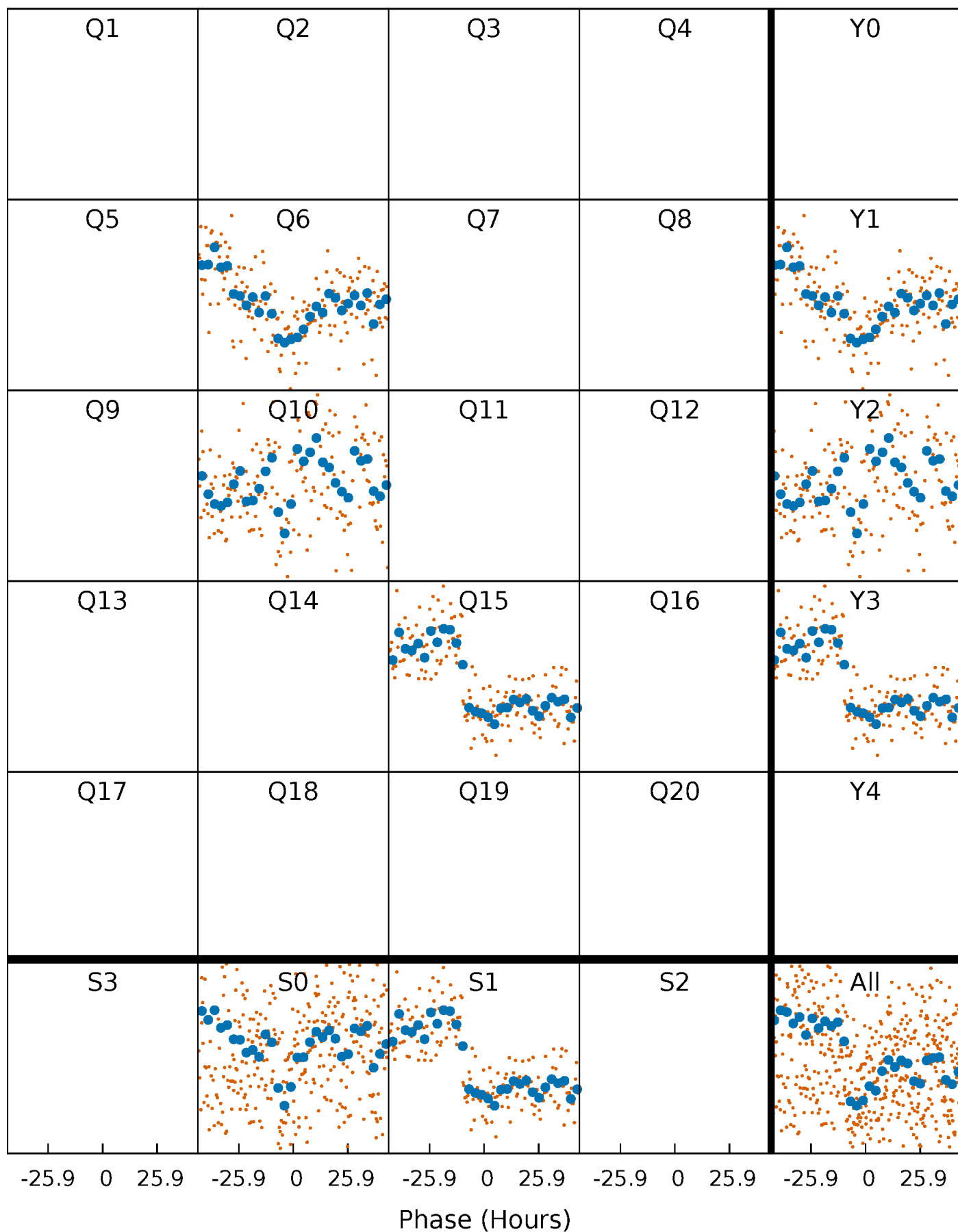


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011495417-01 P=443.814715 Days $T_0=545.184781$ (BKJD)



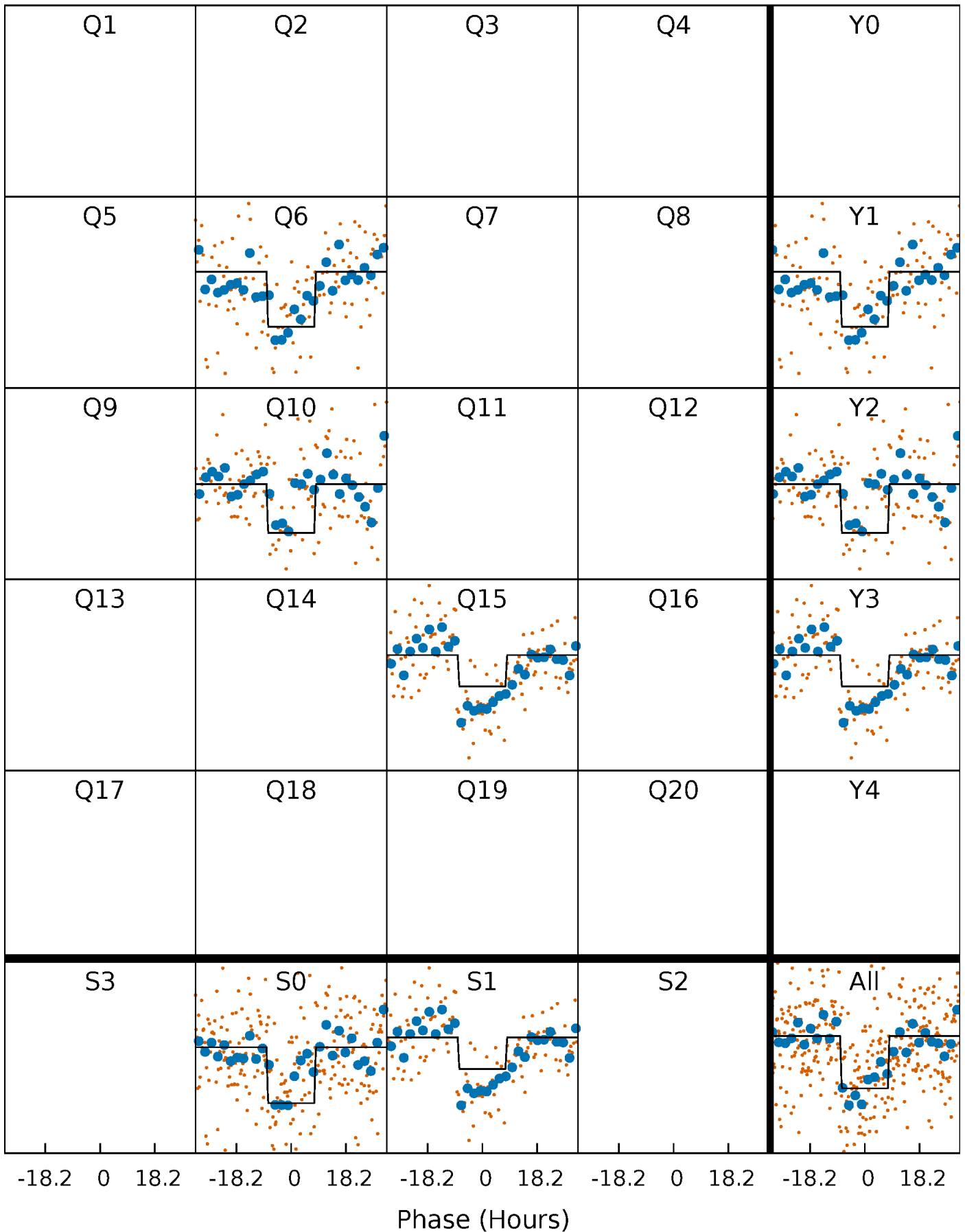
DV Quarter-Phased Transit Curves

TCE 011495417-01 P=443.814715 Days $T_0=545.184781$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

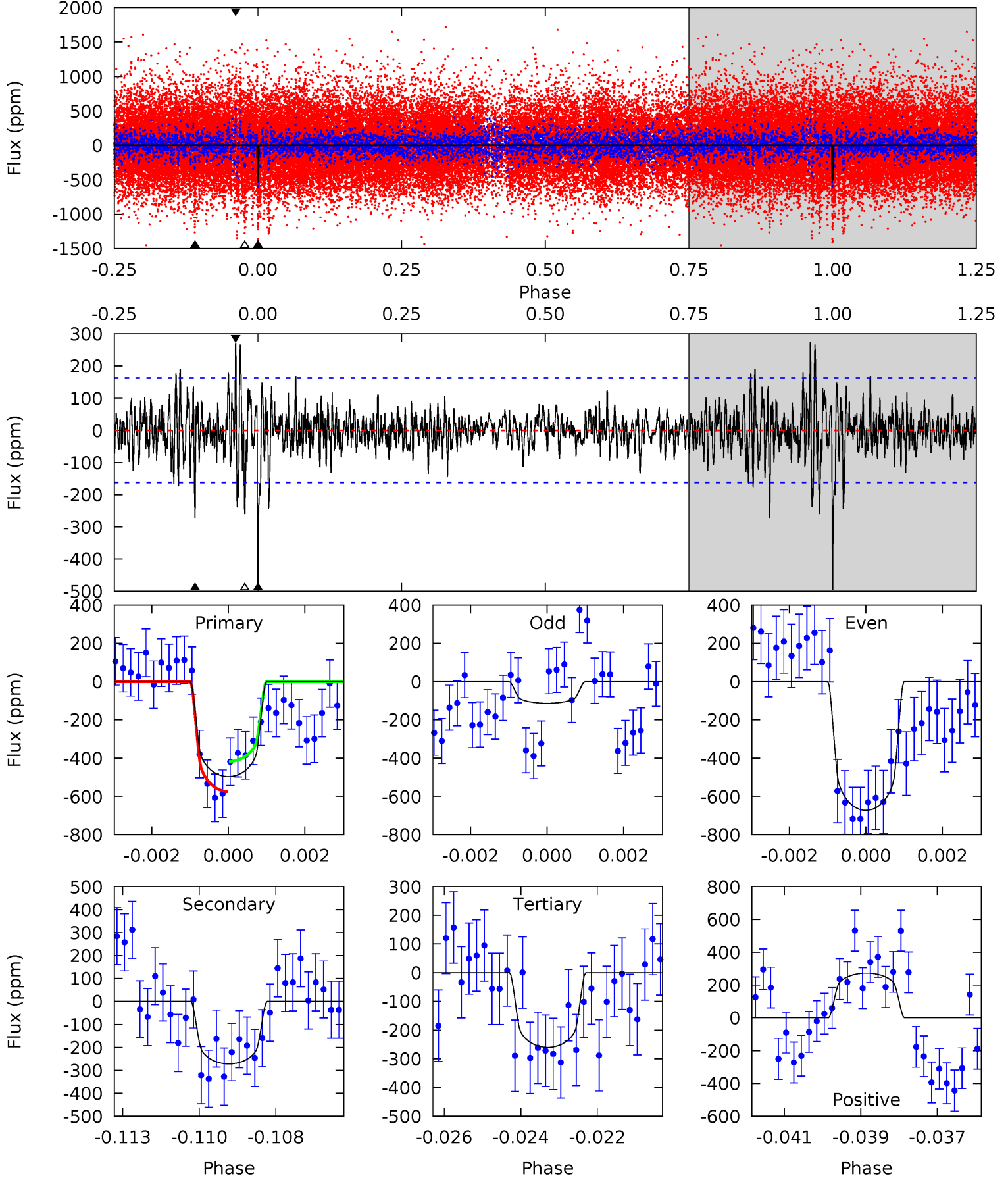
TCE 011495417-01 P=443.789678 Days $T_0=545.166212$ (BKJD)



DV Model-Shift Uniqueness Test

011495417-01, P = 443.814715 Days, E = 101.370066 Days

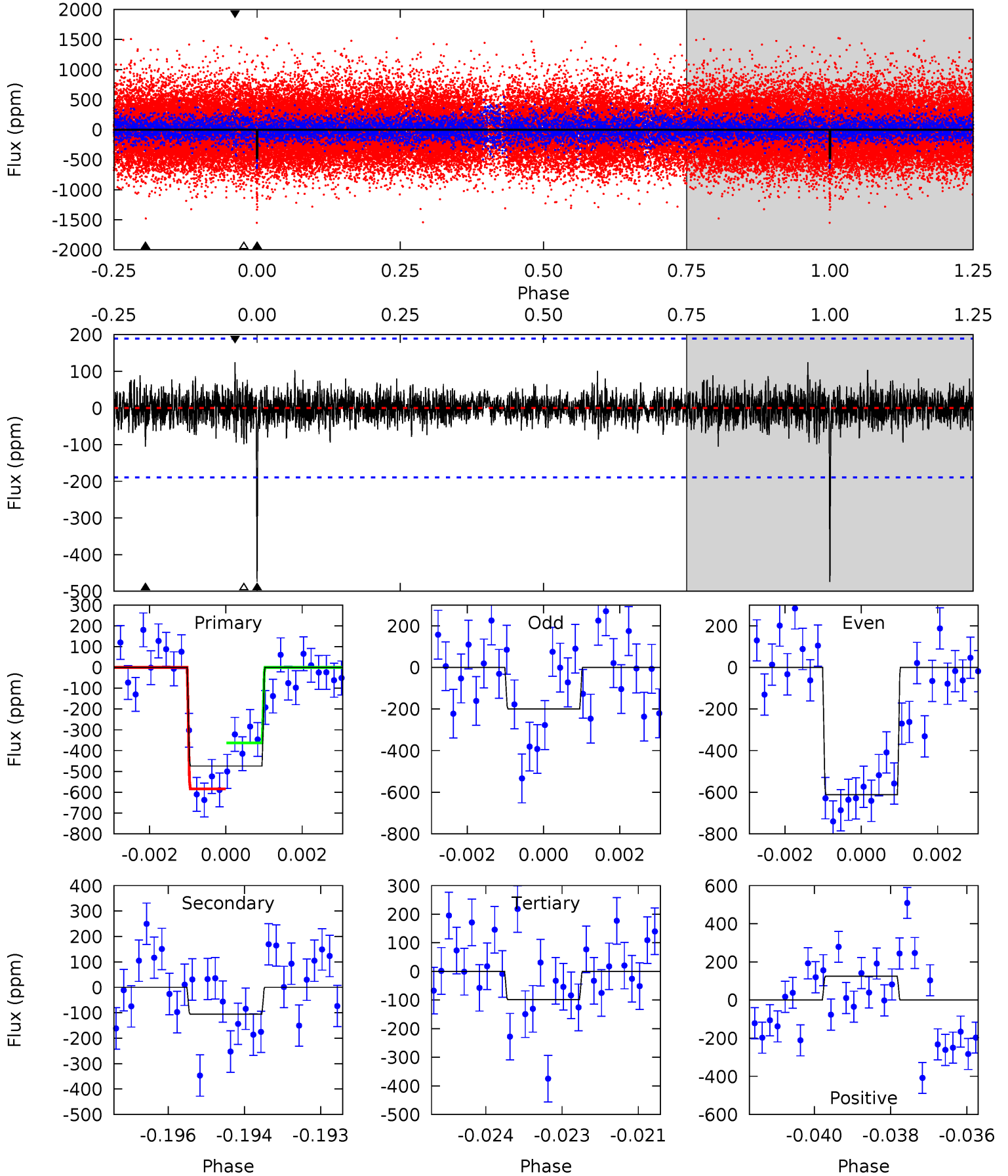
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.3	8.90	8.52	8.93	5.31	3.07	1.82	7.74	7.32	0.39	-0.02	8.67	0.82	0.35	2.57



Alt Model-Shift Uniqueness Test

011495417-01, P = 443.789678 Days, E = 101.376534 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.5	2.99	2.80	3.55	5.38	3.17	0.74	10.7	9.91	0.19	-0.55	5.55	1.14	0.21	3.14



Stellar Parameters For KIC 011495417

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5341^{+160}_{-144}	$4.514^{+0.108}_{-0.090}$	$-0.440^{+0.300}_{-0.300}$	$0.776^{+0.104}_{-0.095}$	$0.718^{+0.107}_{-0.046}$	$2.166^{+0.962}_{-0.563}$
	+3%/-3%	+2%/-2%	+68%/-68%	+13%/-12%	+15%/-6%	+44%/-26%
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 011495417-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-272 ± 31	$2.29^{+0.28}_{-0.30}$	286^{+14}_{-12}	4352^{+238}_{-196}	30107^{+10144}_{-6814}
Alt.	-105 ± 35	$1.85^{+0.29}_{-0.26}$	287^{+13}_{-13}	3941^{+336}_{-305}	17457^{+10193}_{-6728}

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

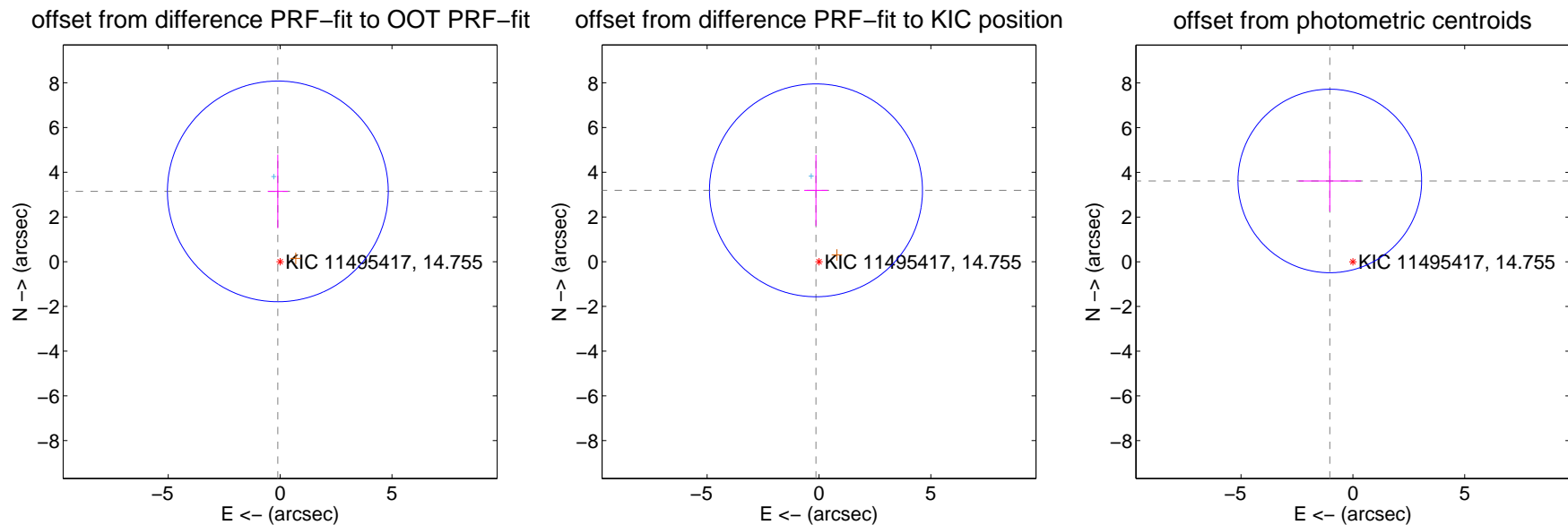
DV Centroid Data

Supplemental centroid analysis for 011495417-01. Kepler magnitude: 14.76. Transit SNR 9.89

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.146 ± 1.645	1.91	0.101 ± 0.449	3.145 ± 1.646
PRF-fit source offset from KIC position	3.195 ± 1.587	2.01	0.135 ± 0.524	3.192 ± 1.588
photometric centroid source offset	3.76 ± 1.37	2.75	1.03 ± 1.40	3.62 ± 1.37

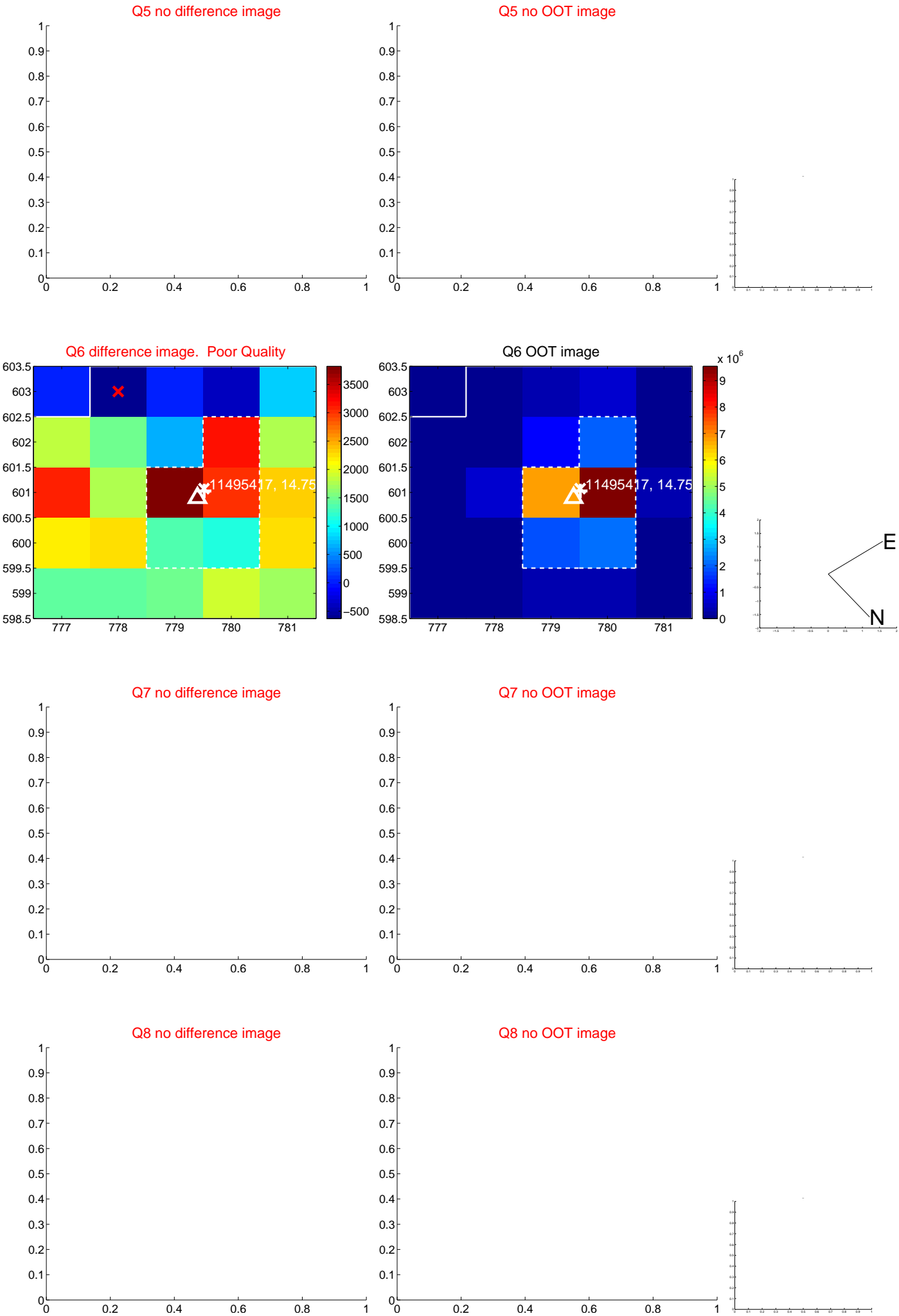


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

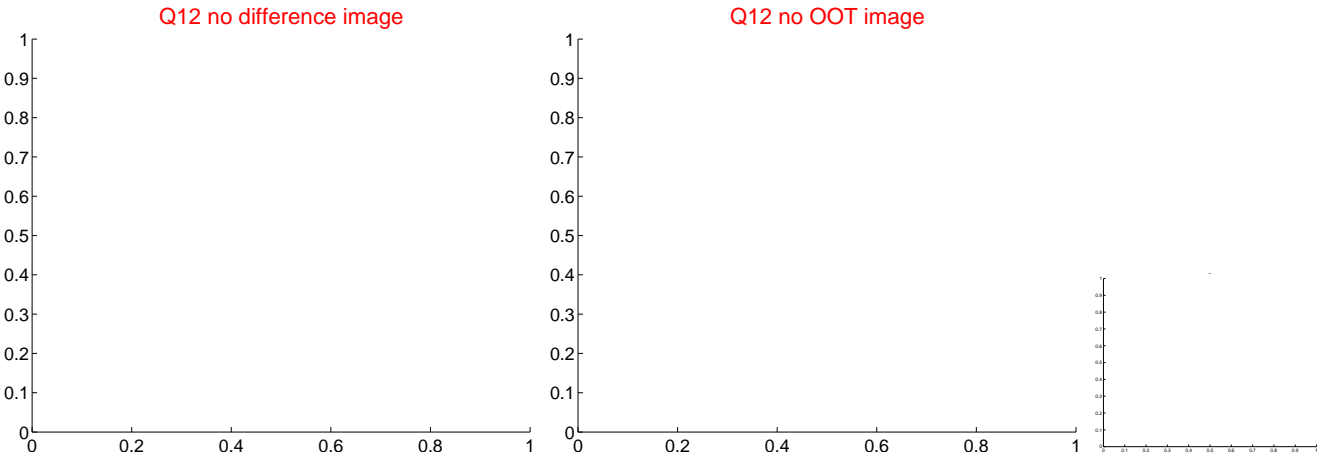
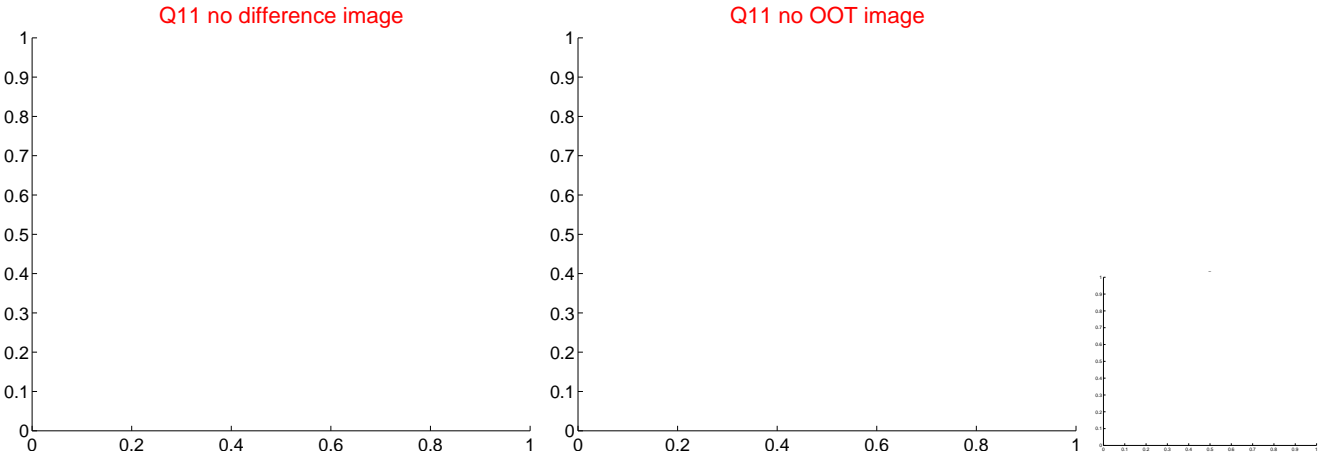
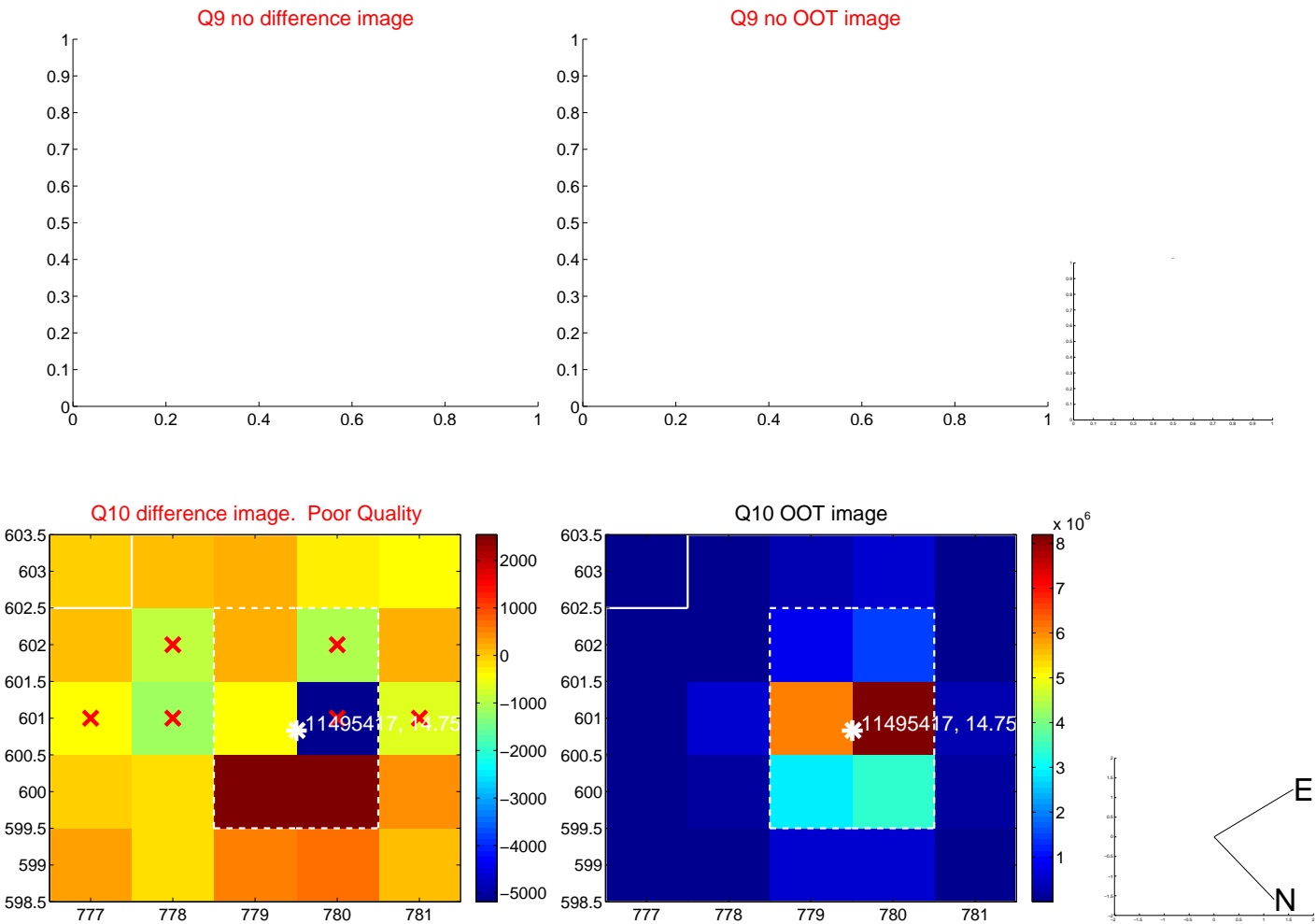
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



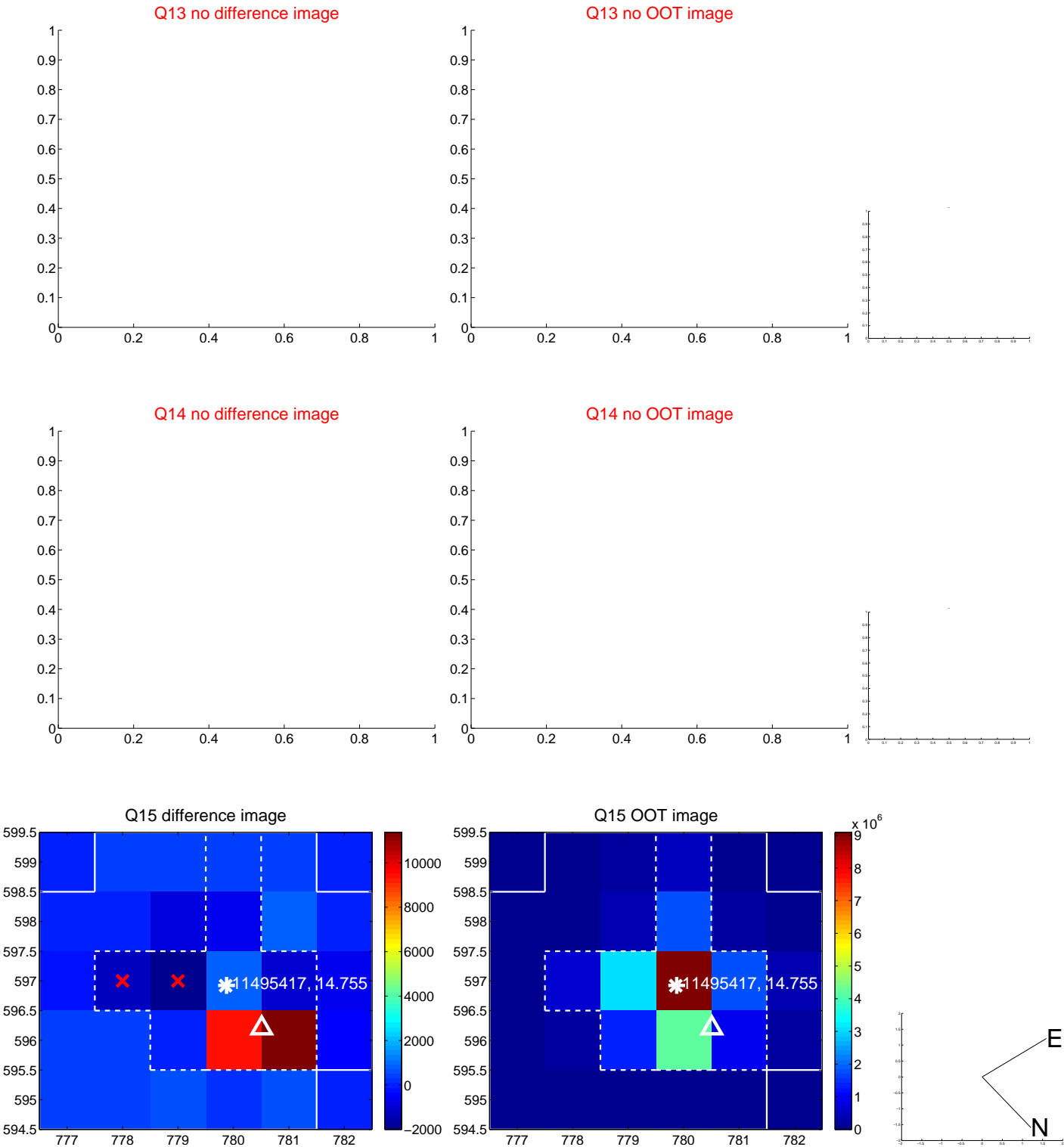
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



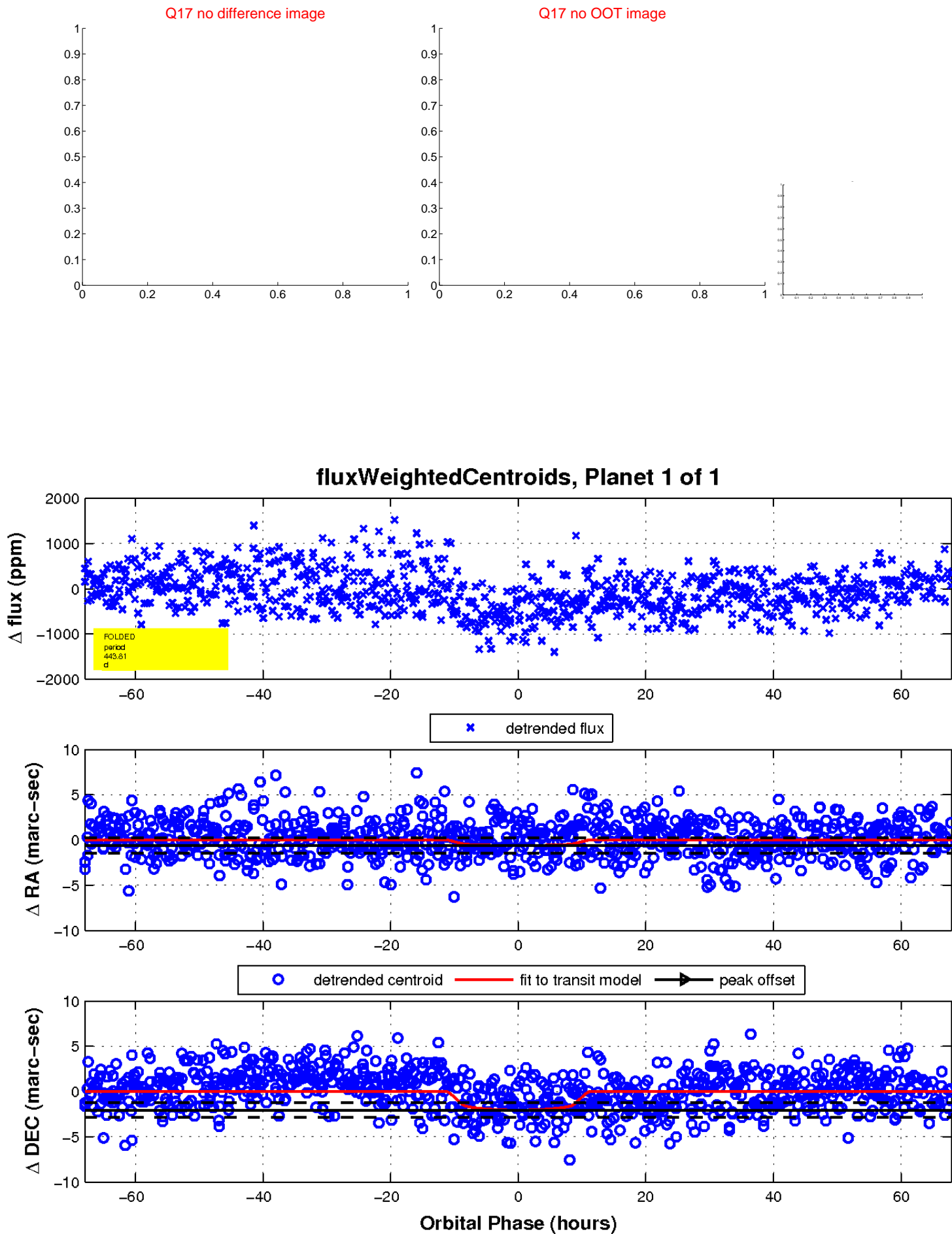
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

Declination

