

KIC 004773318

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})
004773318-01	OBS	No	2.353919	132.326977	27.0	28.247	7.4	8.7	0.95	6279	0.54	1038.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004773318-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—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.

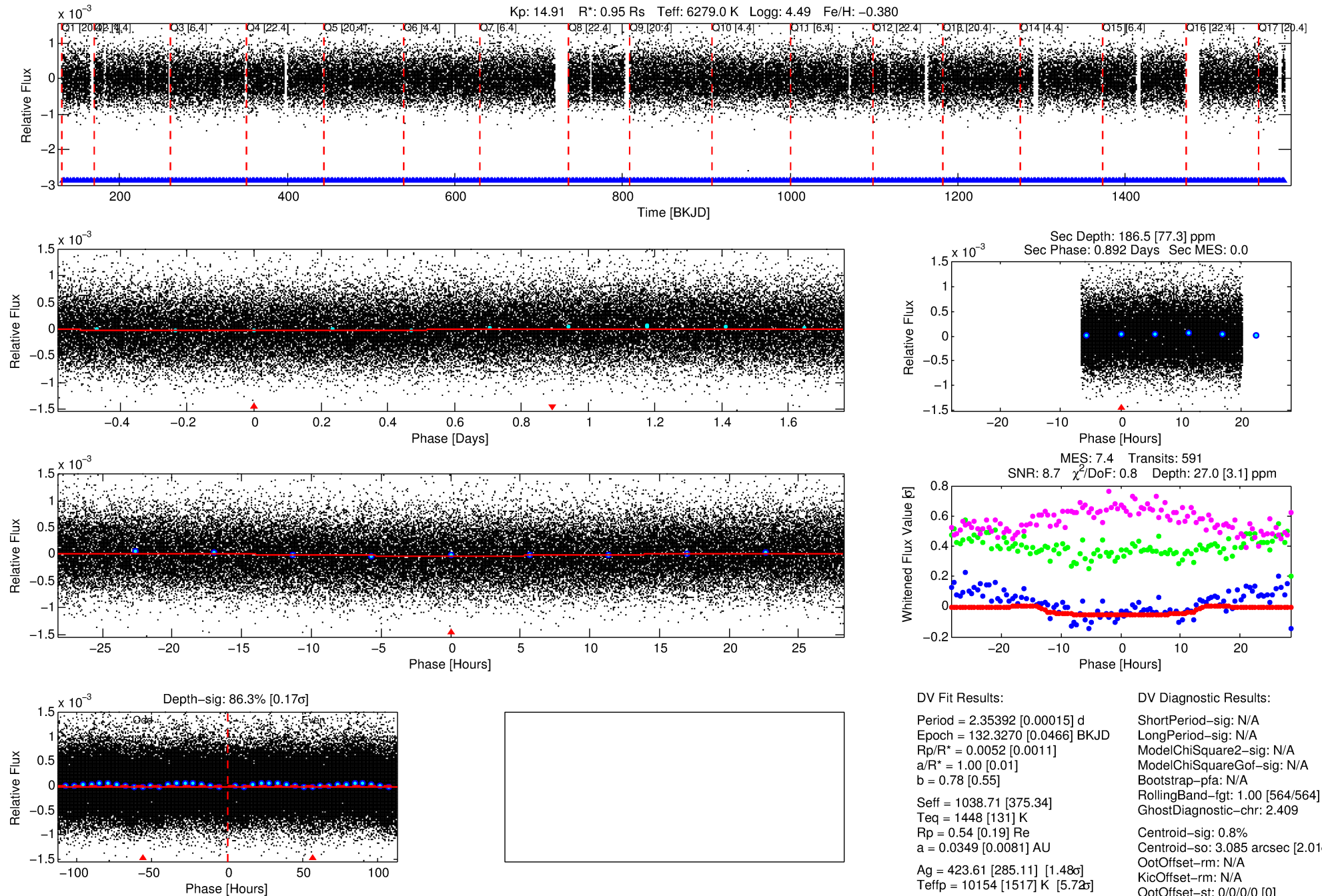
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004773318-01

No Significant Match Found

DV One-Page Summary

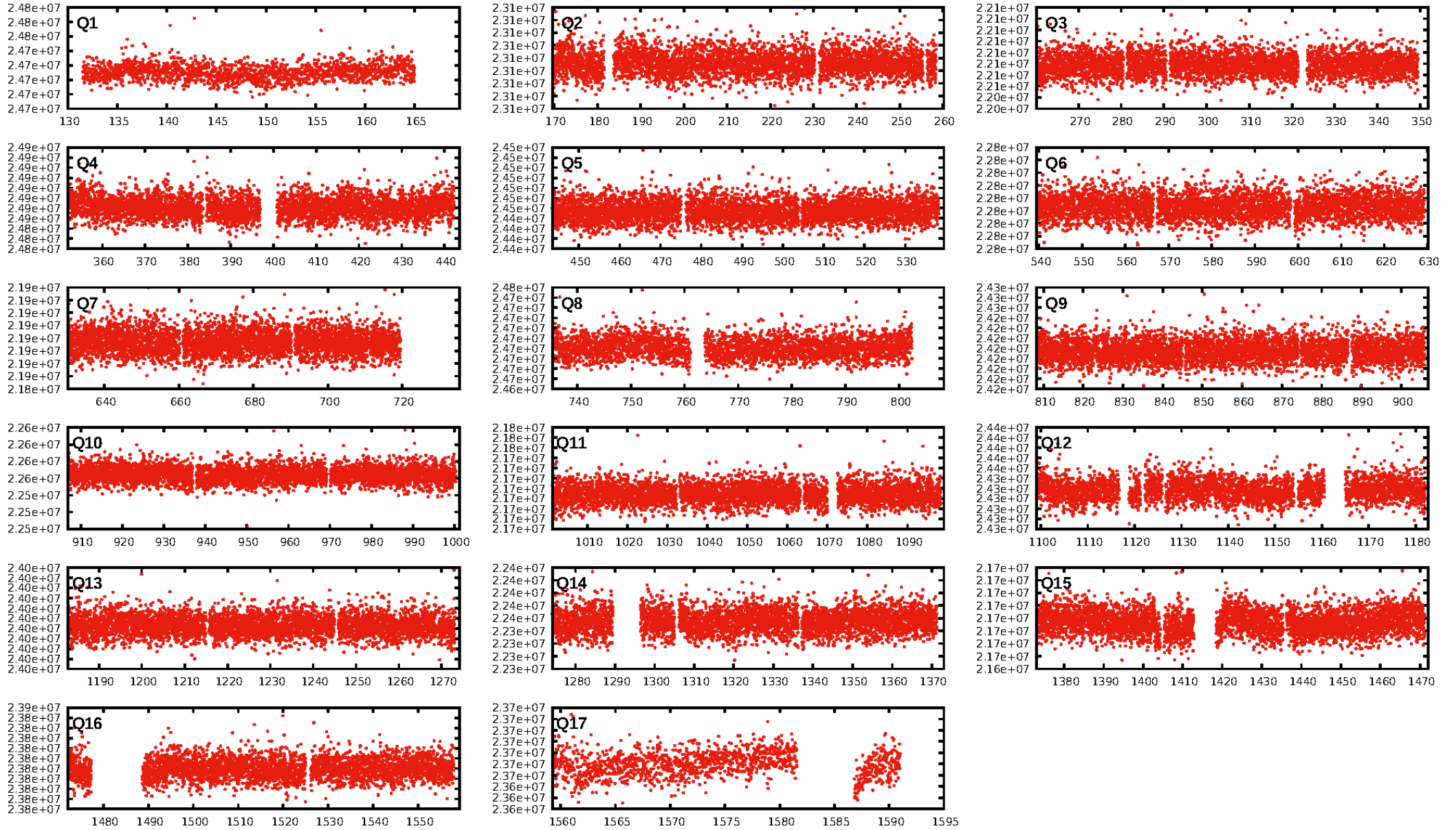
KIC: 4773318 Candidate: 1 of 1 Period: 2.354 d



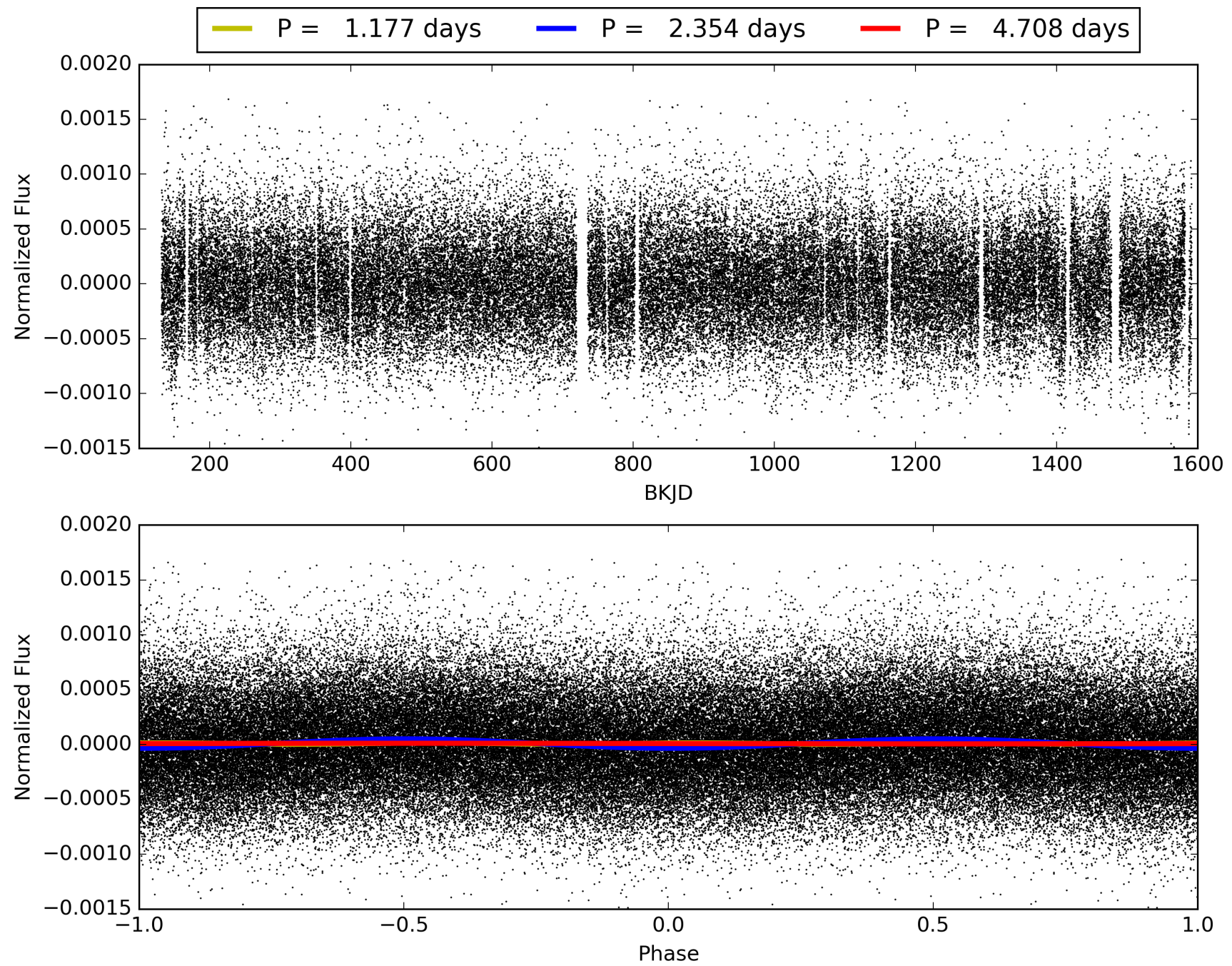
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:51:47 Z

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

TCE 004773318-01, PDC Light Curves

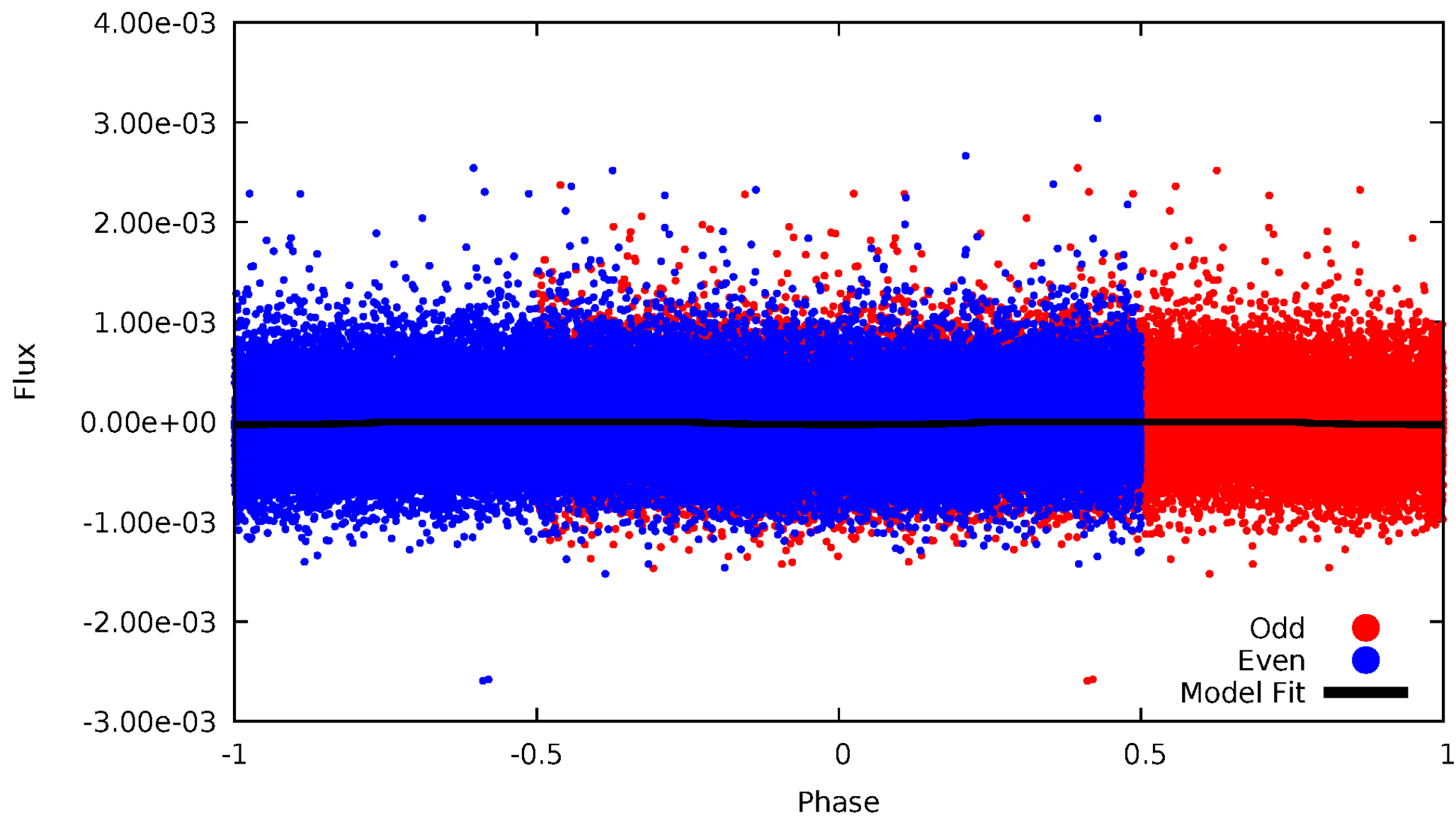


TCE 004773318-01



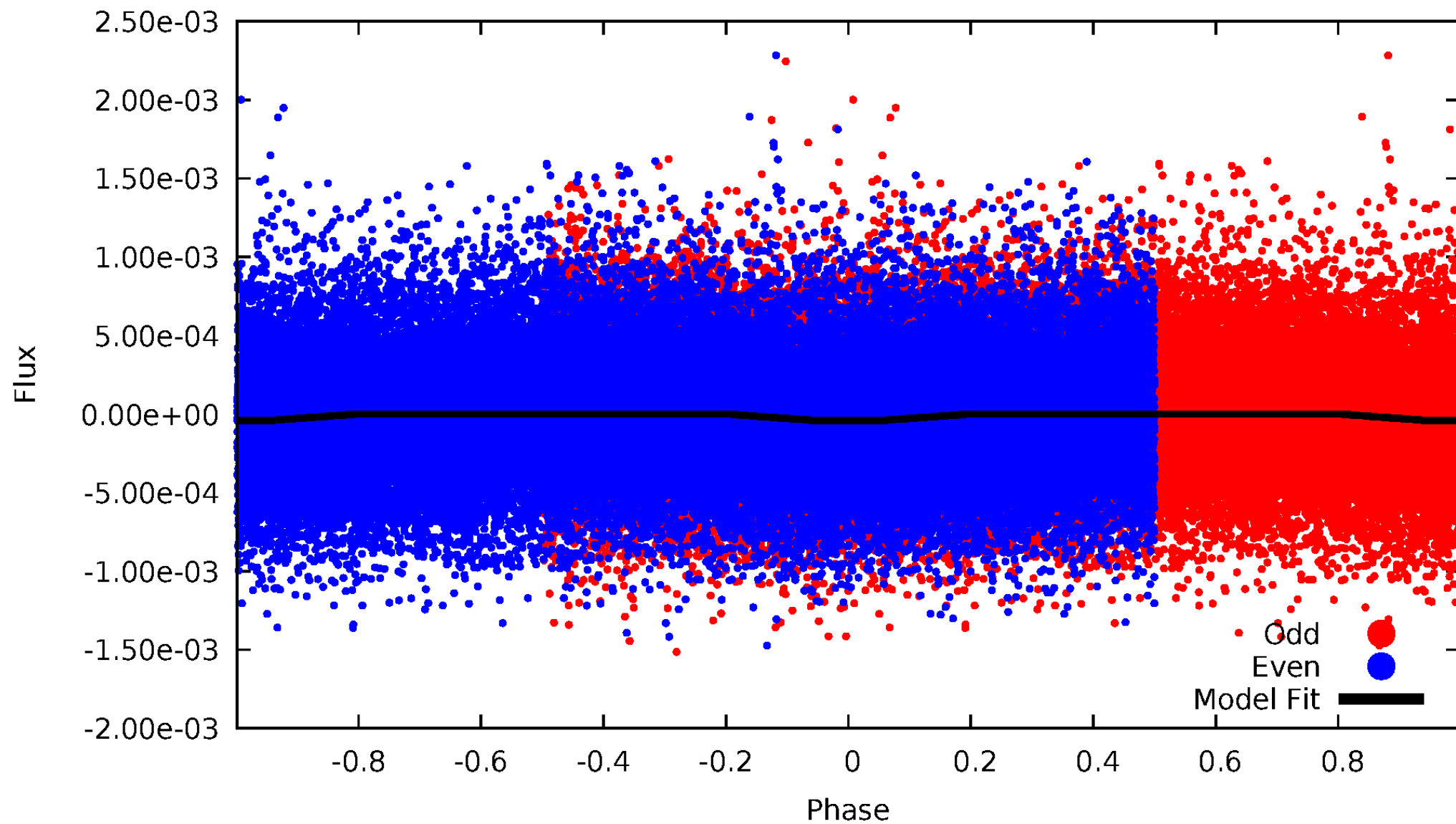
DV Odd/Even

TCE 004773318-01



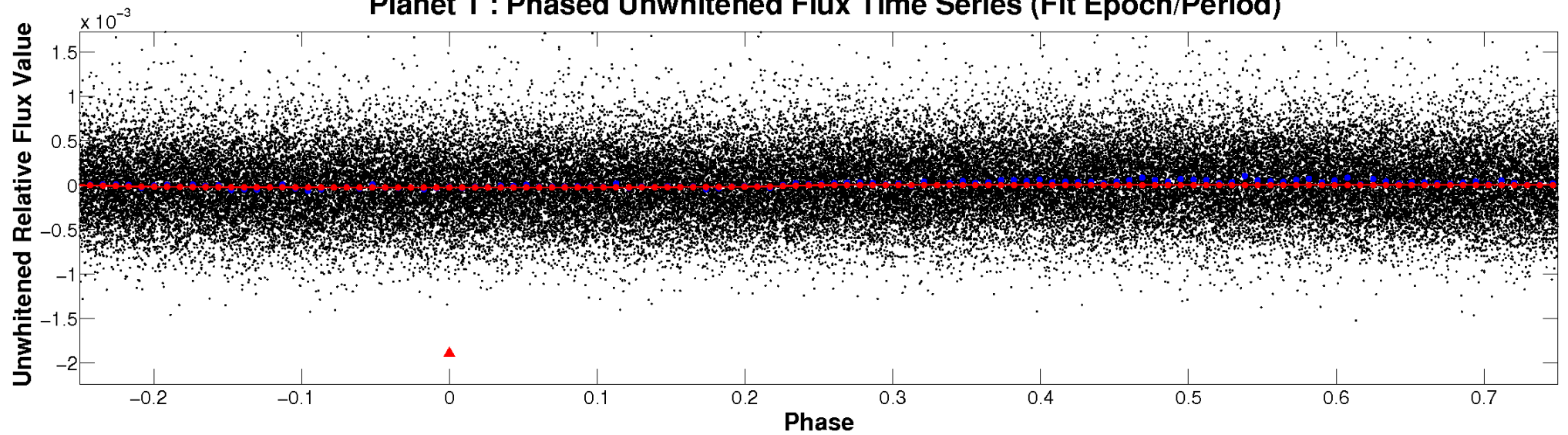
ALT Odd/Even

TCE 004773318-01

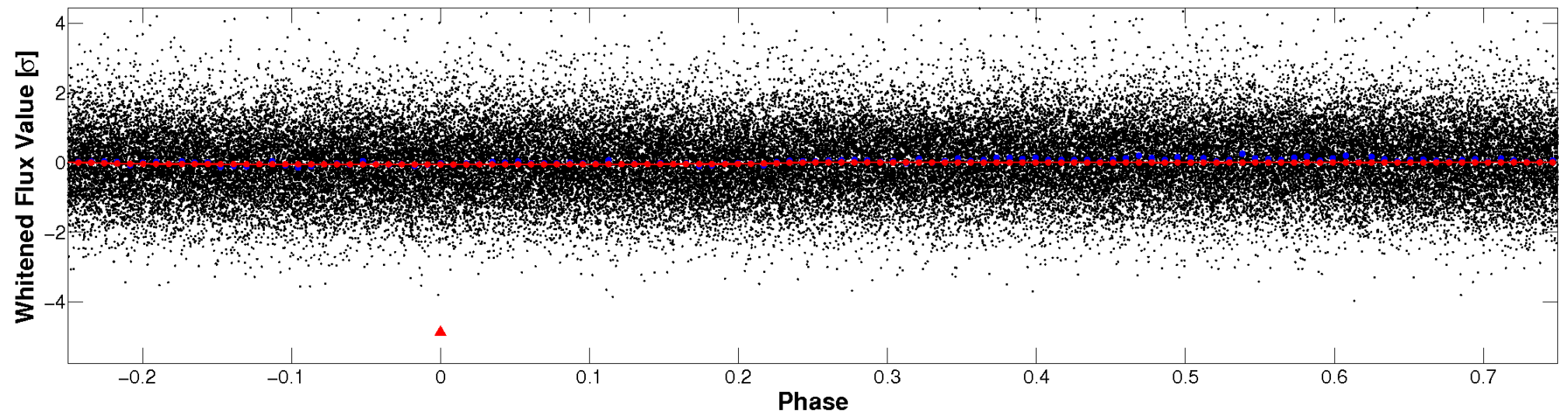


Non-Whitened Vs. Whitened Light Curve

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

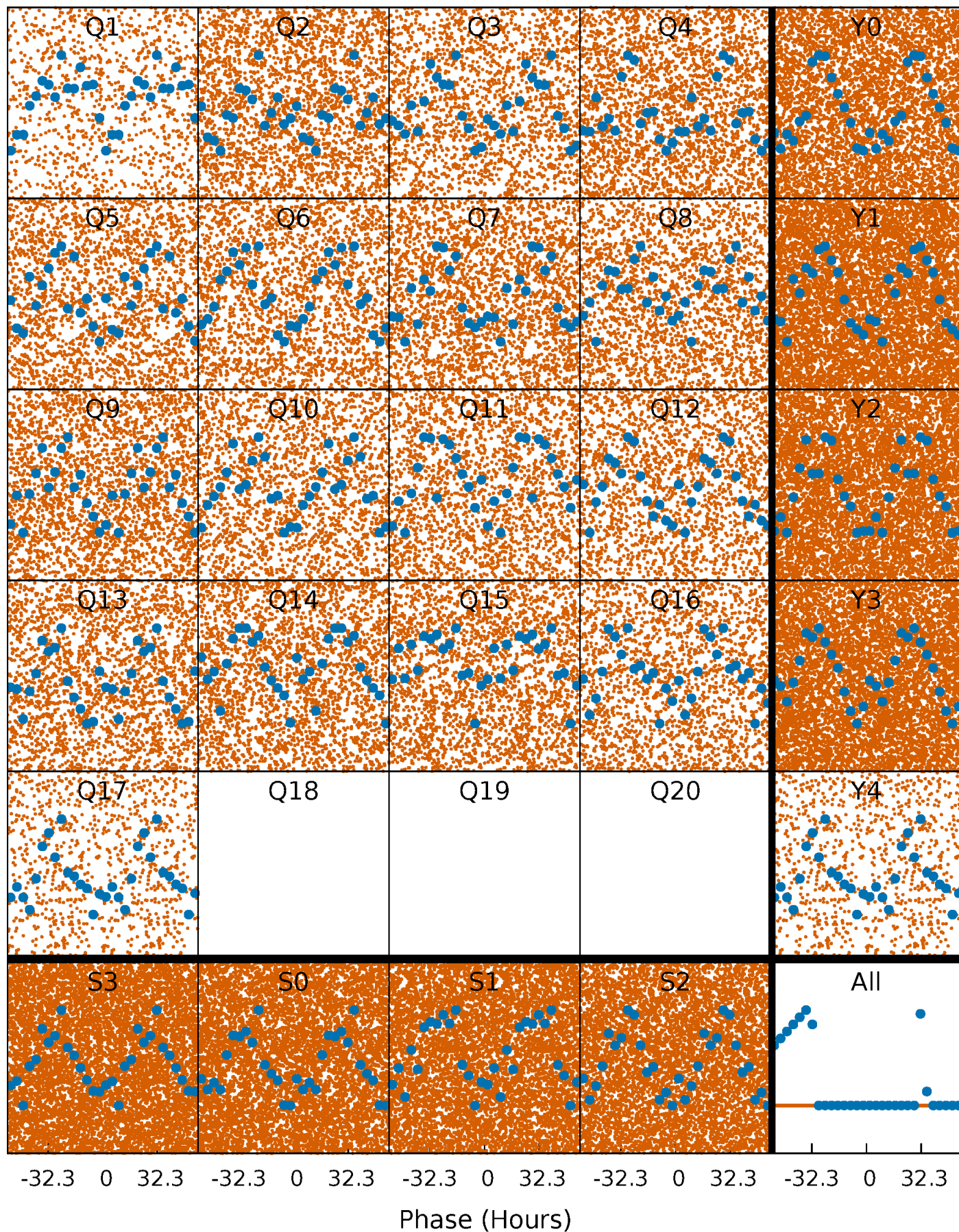


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



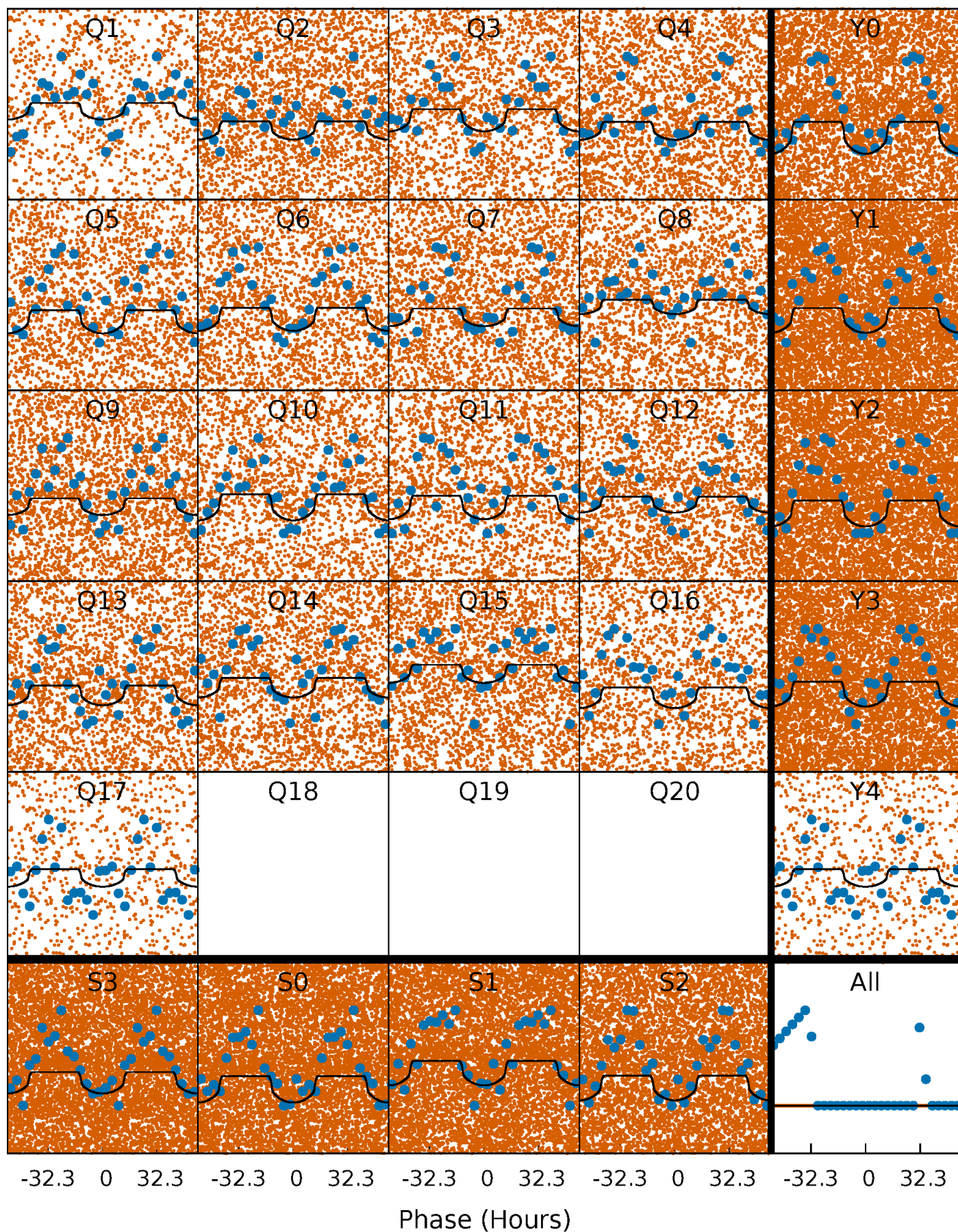
PDC Quarter-Phased Transit Curves

TCE 004773318-01 P= 2.353919 Days $T_0=132.326977$ (BKJD)



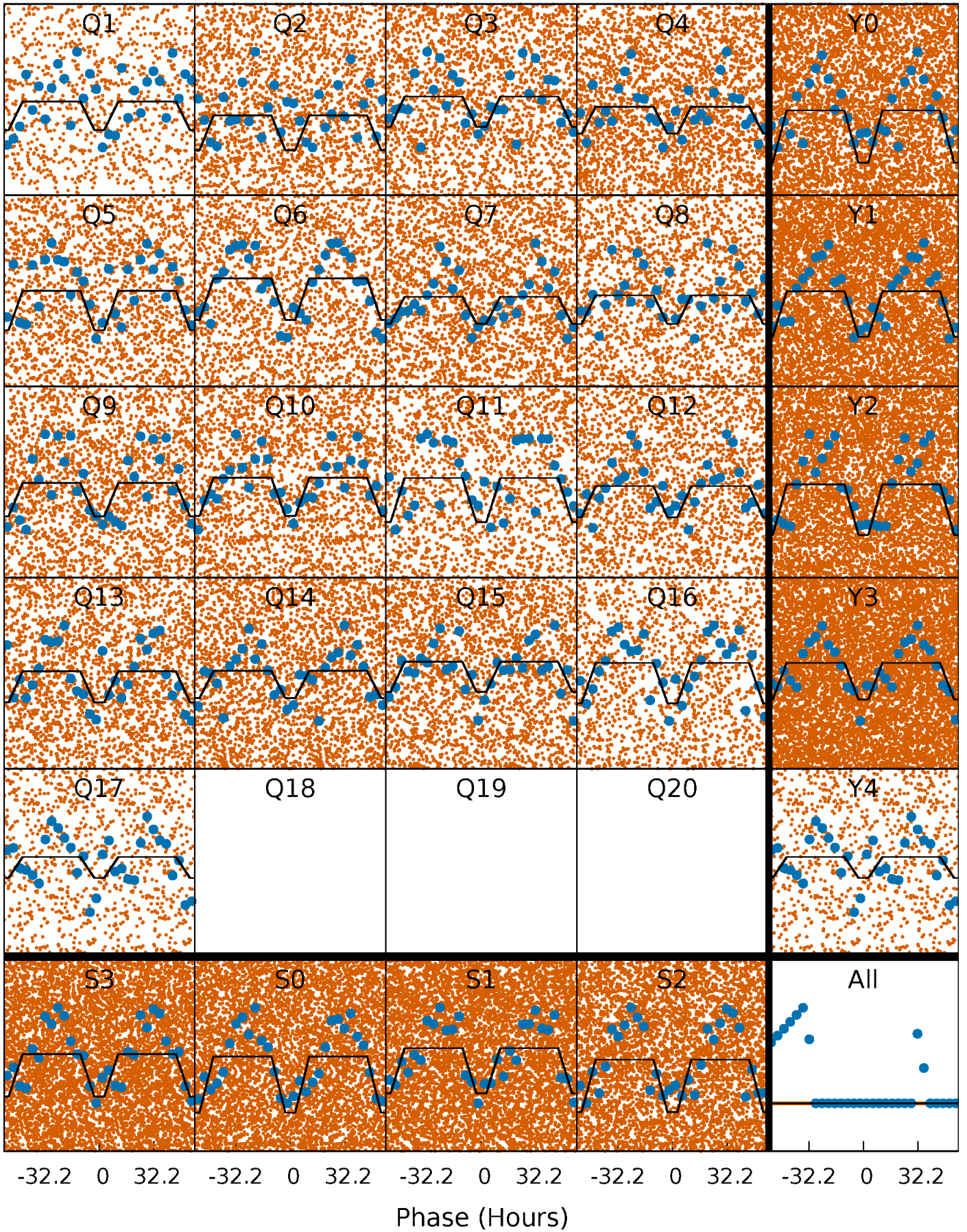
DV Quarter-Phased Transit Curves

TCE 004773318-01 P= 2.353919 Days $T_0=132.326977$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

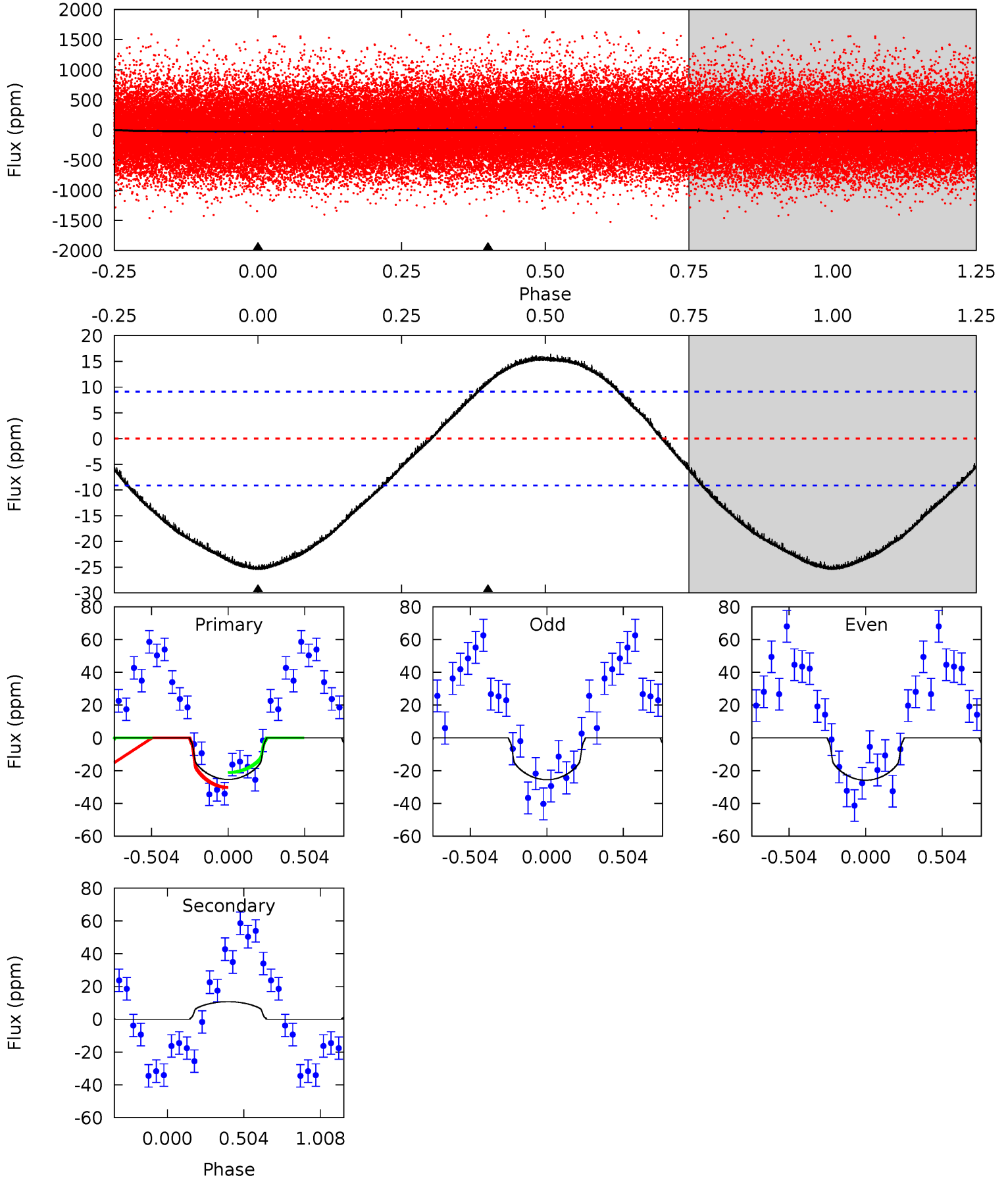
TCE 004773318-01 P= 2.353639 Days $T_0=132.285114$ (BKJD)



DV Model-Shift Uniqueness Test

004773318-01, P = 2.353919 Days, E = 129.973058 Days

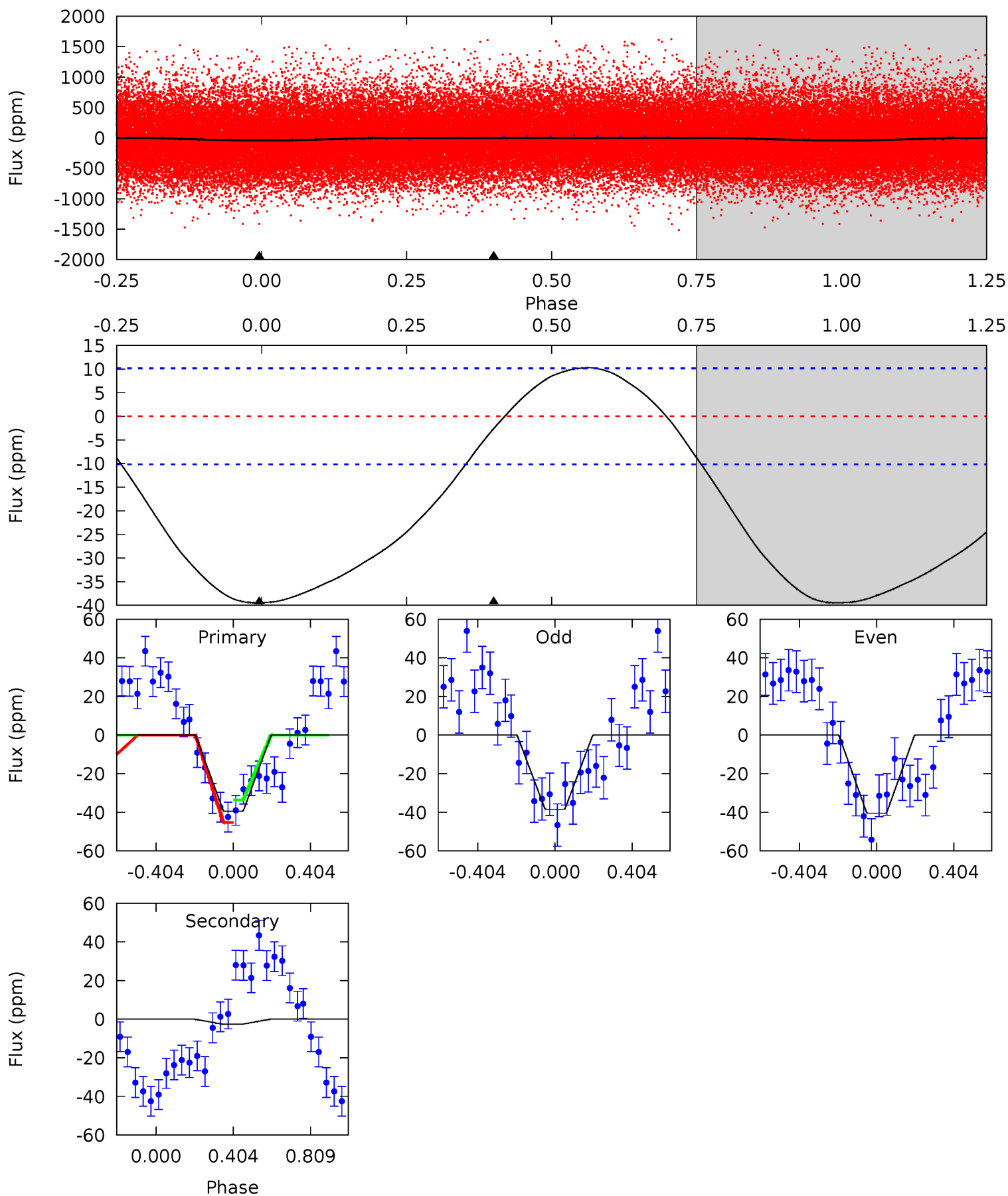
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	-4.95	0	0	4.21	0.67	1.73	11.7	11.7	-4.95	-4.95	0.07	-0.55	0.39	2.11



Alt Model-Shift Uniqueness Test

004773318-01, P = 2.353639 Days, E = 129.931475 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.6	1.09	0	0	4.26	0.83	1.79	16.6	16.6	1.09	1.09	0.42	0.42	0.21	2.41



Stellar Parameters For KIC 004773318

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6279^{+169}_{-207}	$4.489^{+0.046}_{-0.184}$	$-0.380^{+0.300}_{-0.300}$	$0.952^{+0.261}_{-0.105}$	$1.018^{+0.123}_{-0.135}$	$1.662^{+0.405}_{-0.796}$
	+3%/-3%	+1%/-4%	+79%/-79%	+27%/-11%	+12%/-13%	+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 004773318-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	11 ± 2	$0.56^{+0.15}_{-0.12}$	2059^{+137}_{-95}	-5063^{+459}_{-603}	$-21.948^{+8.290}_{-15.498}$
Alt.	-3 ± 2	$0.71^{+0.14}_{-0.13}$	2060^{+149}_{-95}	3527^{+495}_{-872}	$3.393^{+3.601}_{-2.721}$

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

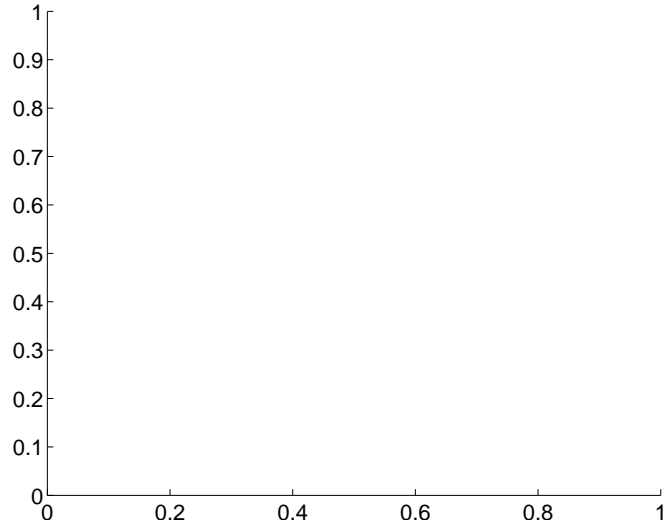
Supplemental centroid analysis for 004773318-01. Kepler magnitude: 14.91. Transit SNR 8.71

There are 0 quarters with good PRF difference image offsets

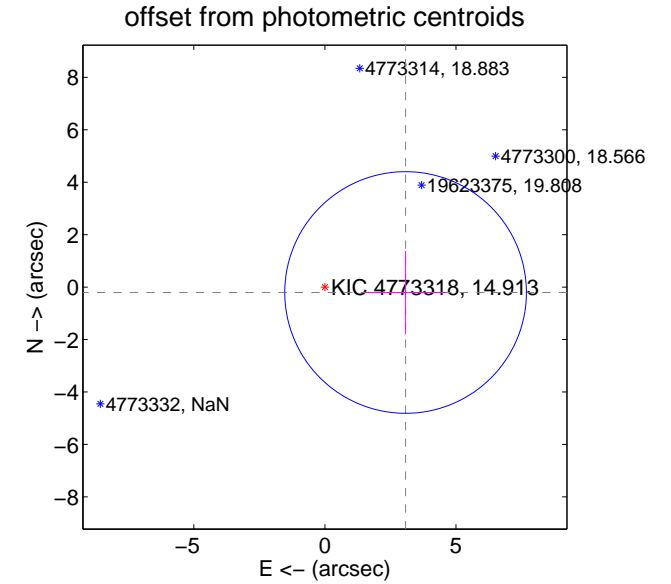
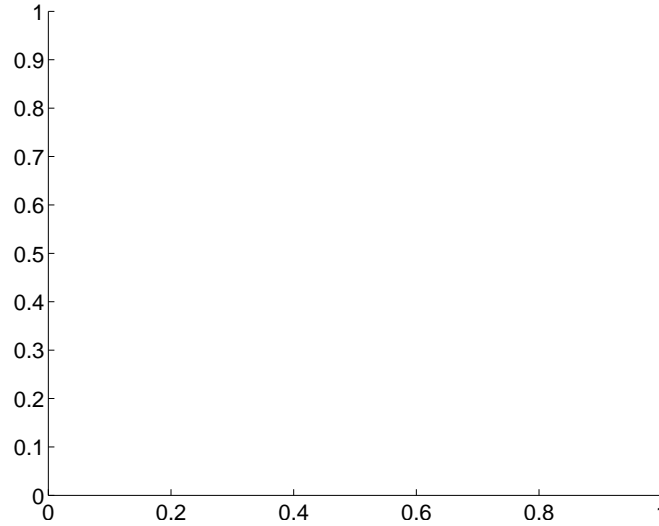
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	3.08 ± 1.54	2.01	-3.08 ± 1.54	-0.21 ± 1.59

There is no PRF-fit offset from OOT-fit

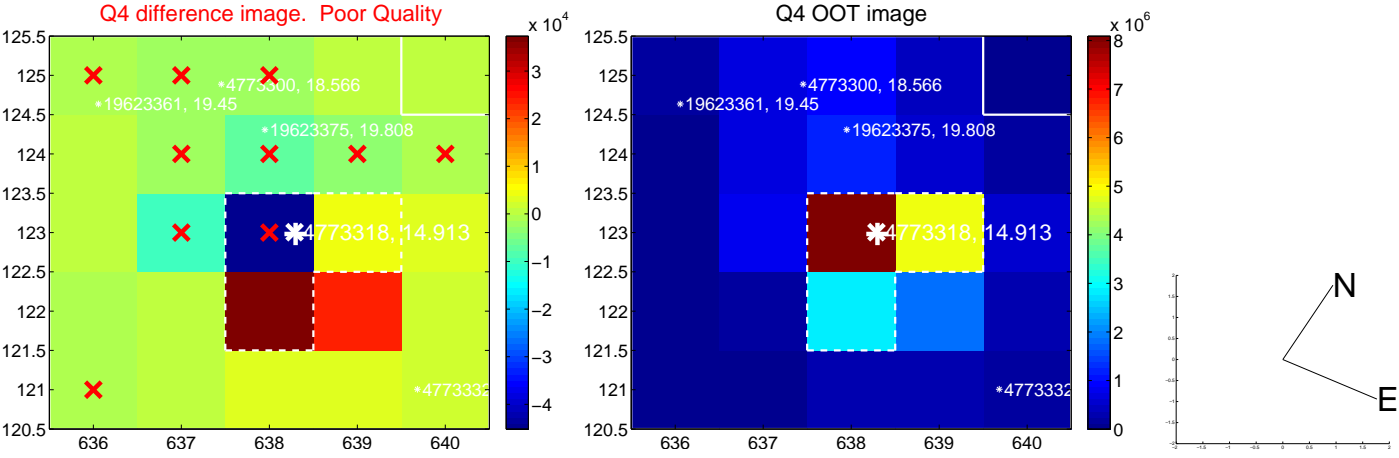
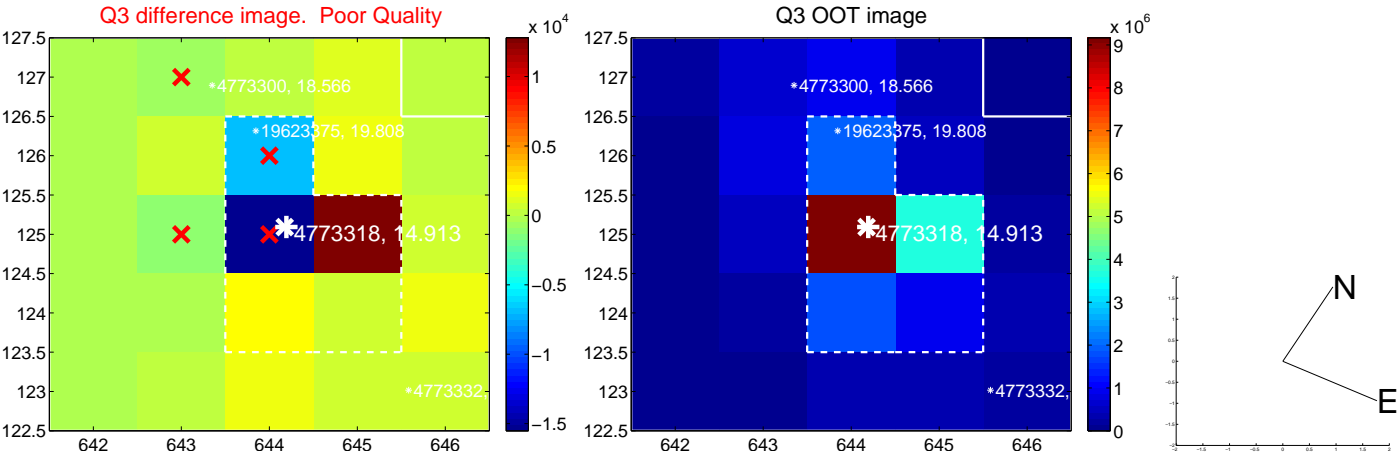
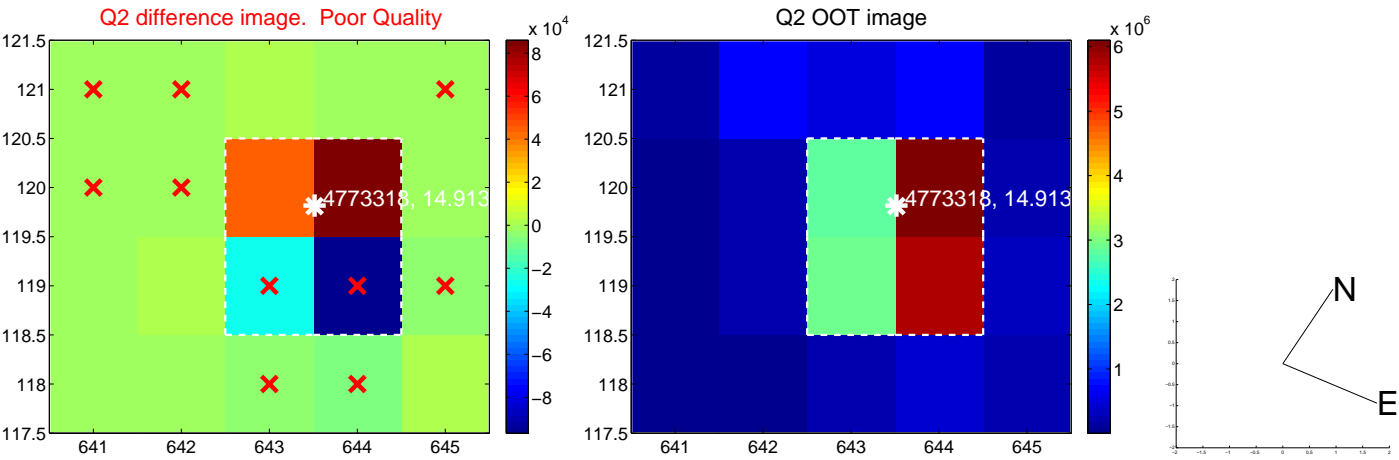
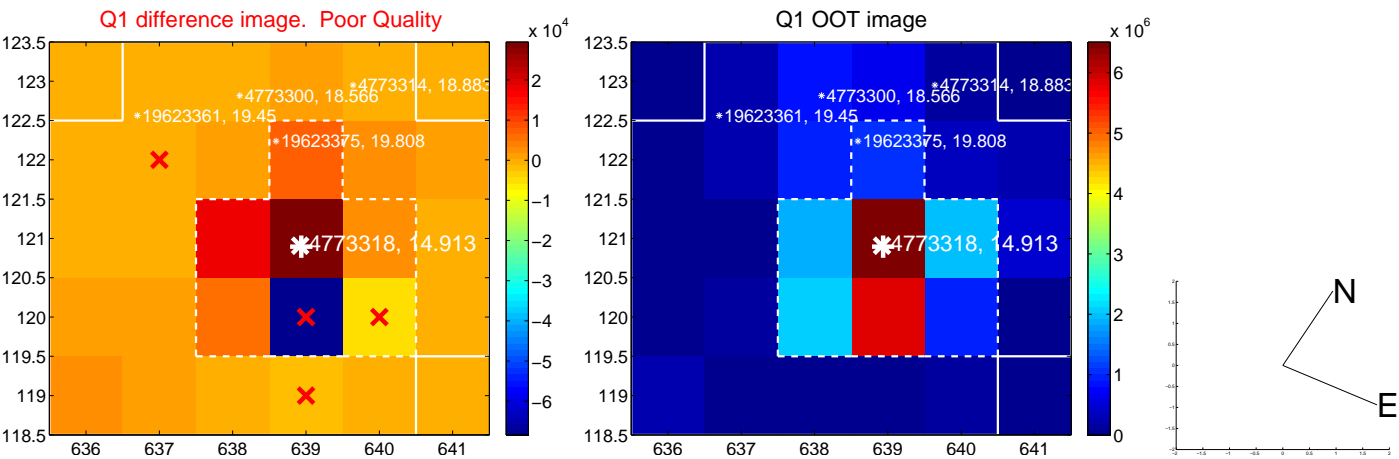


There is no PRF-fit offset from KIC

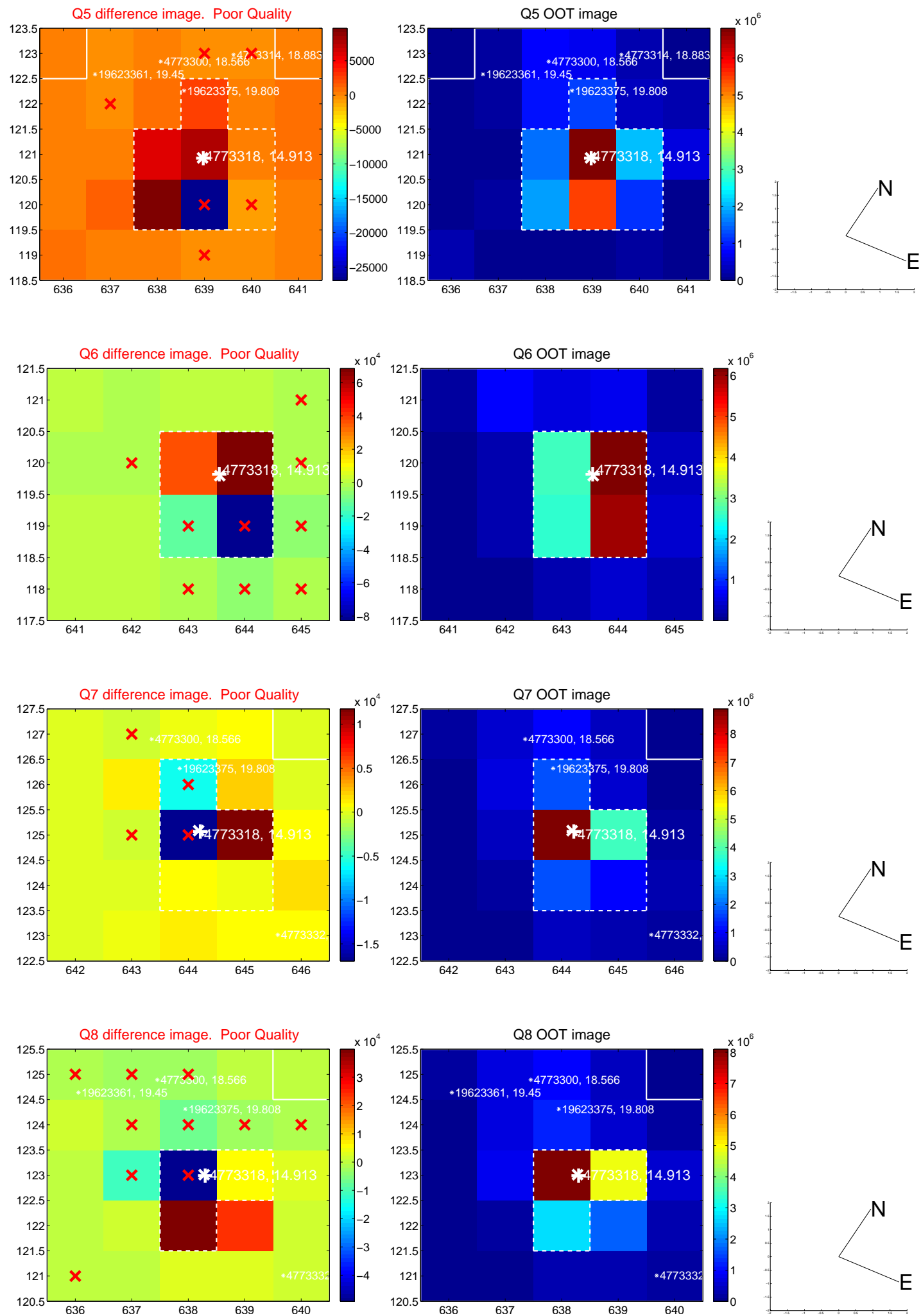


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

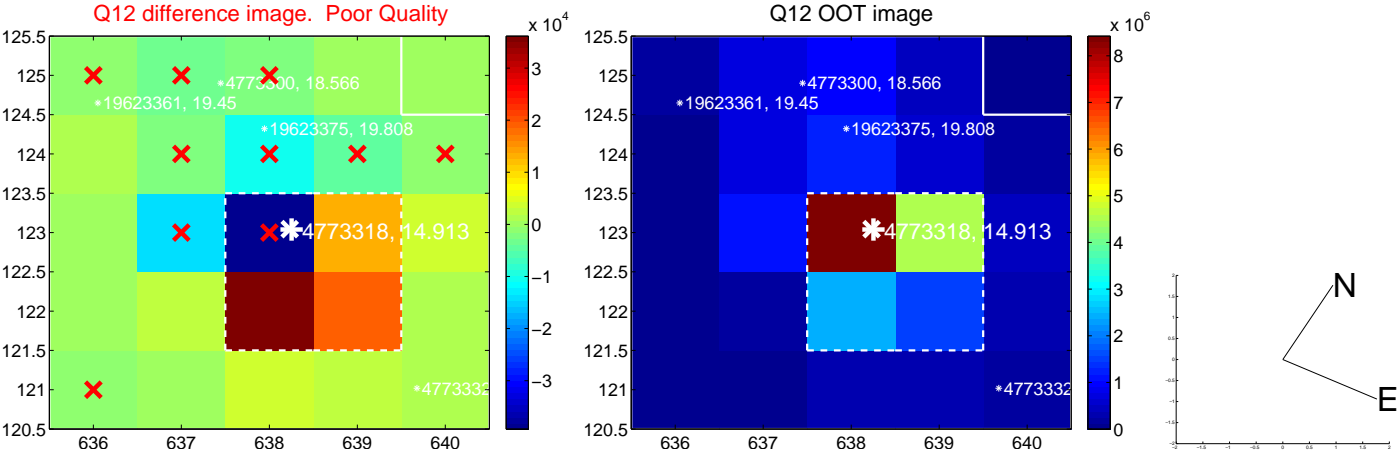
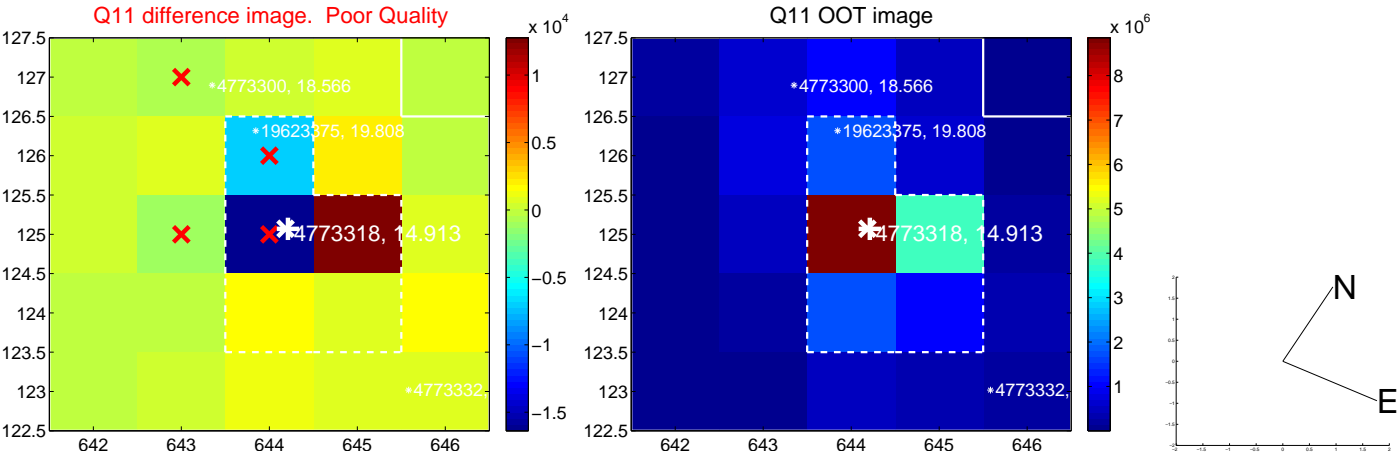
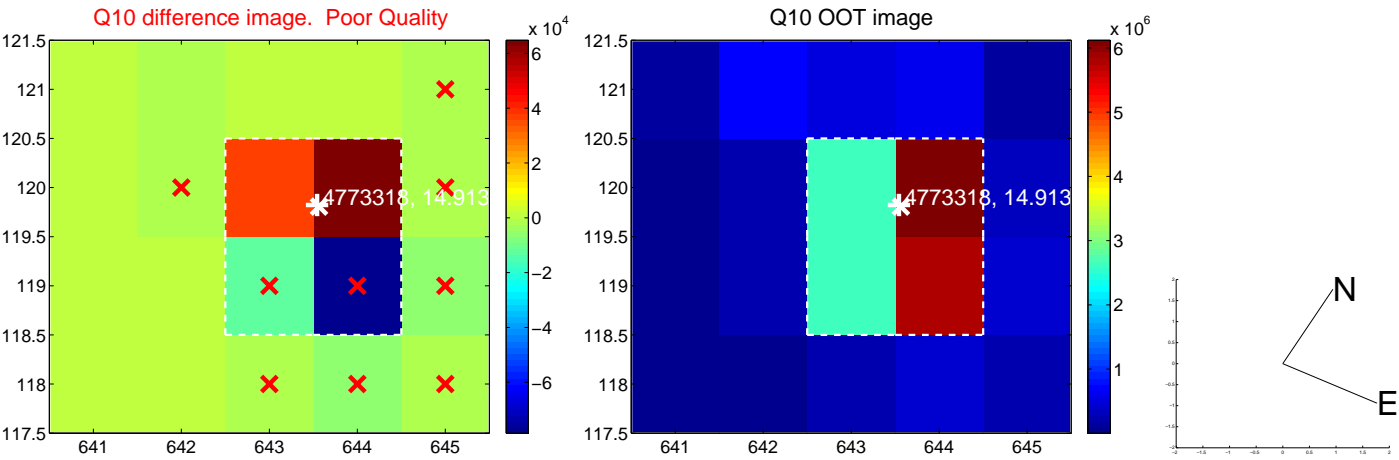
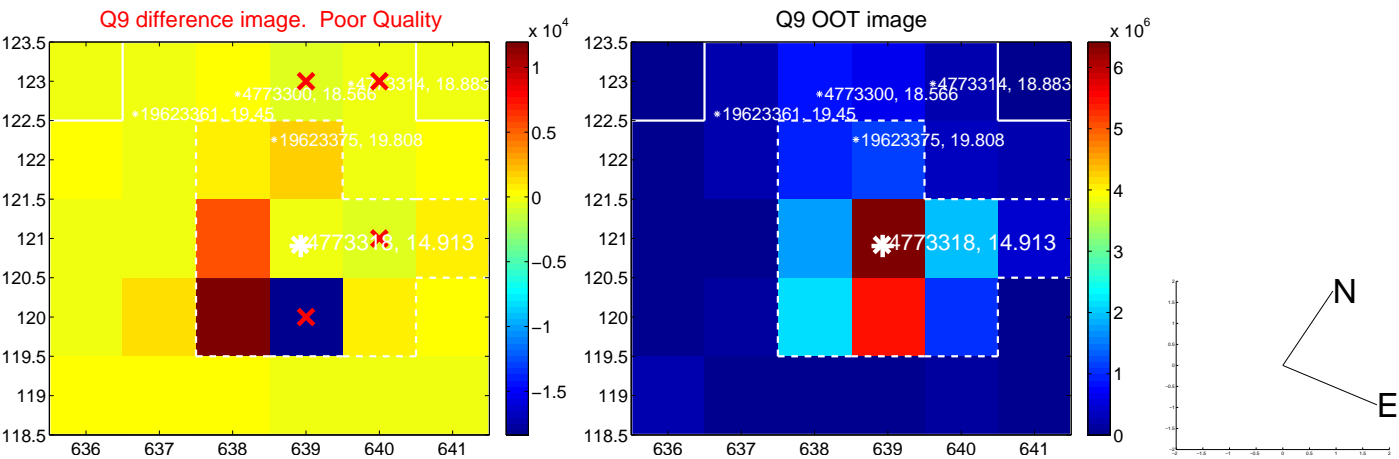
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



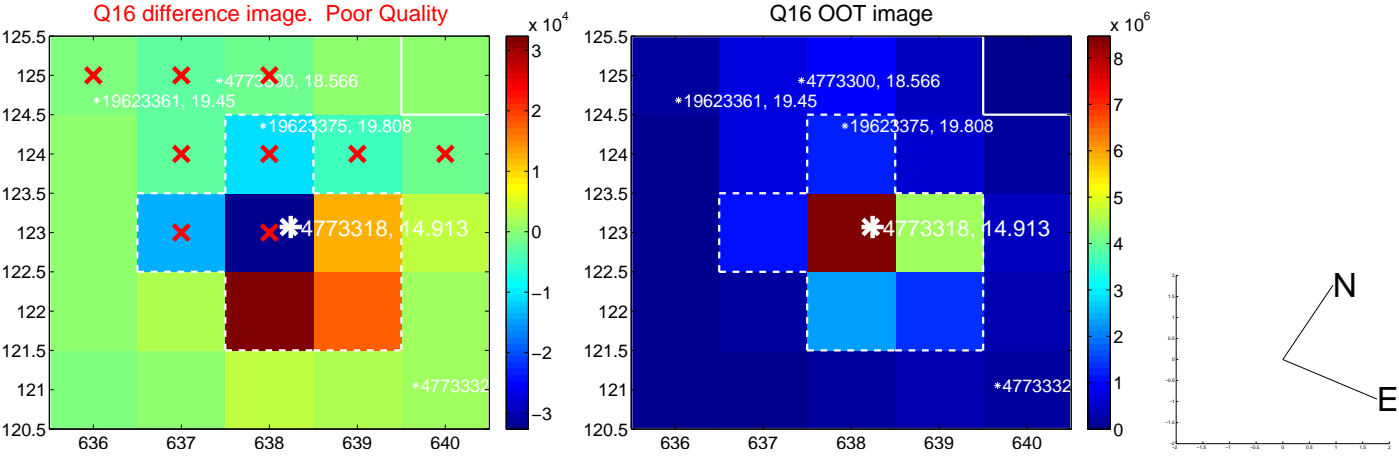
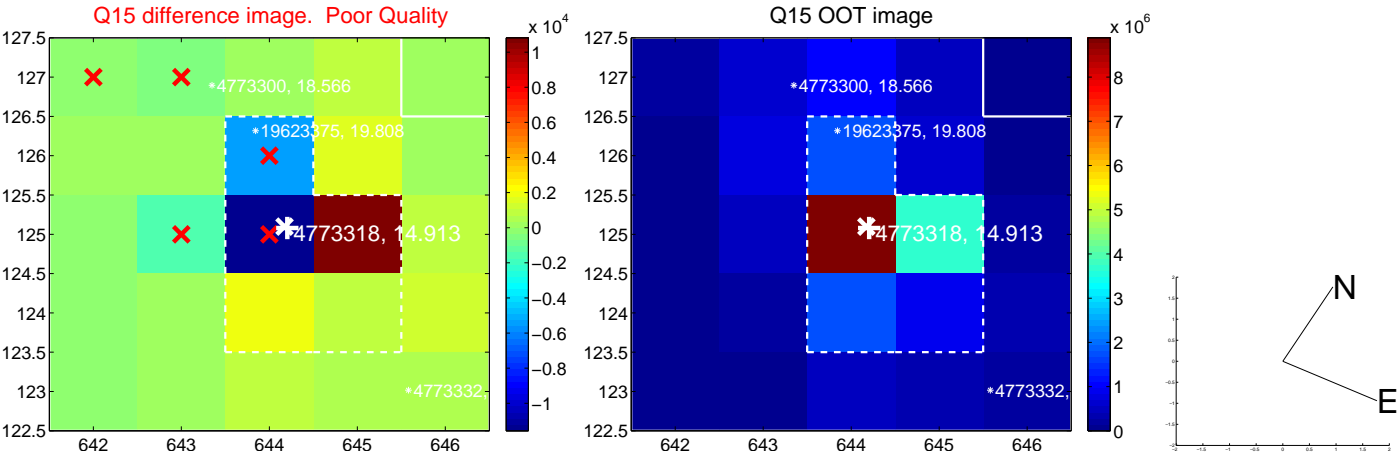
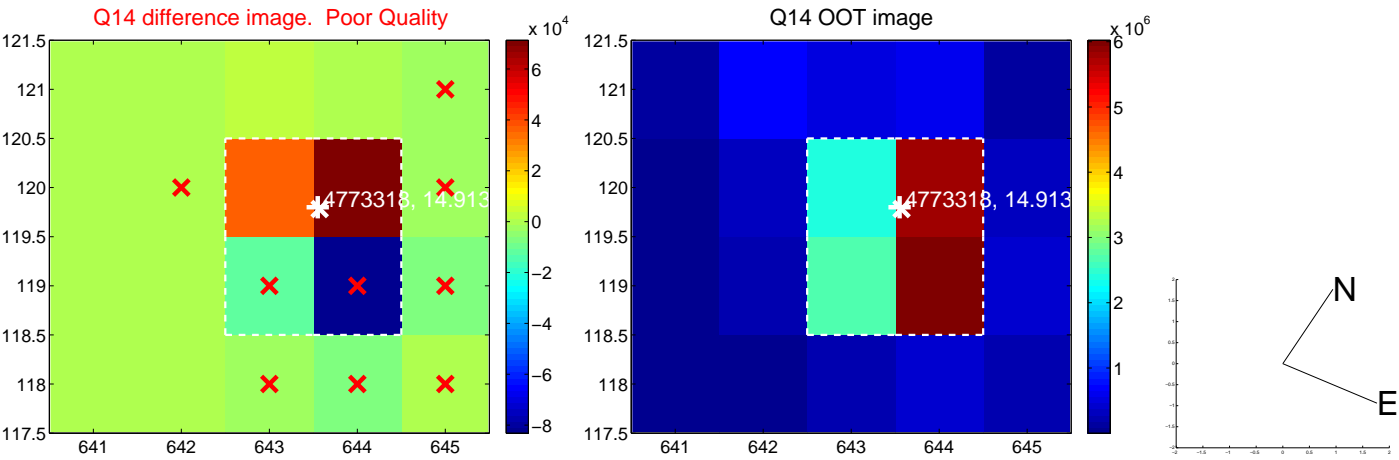
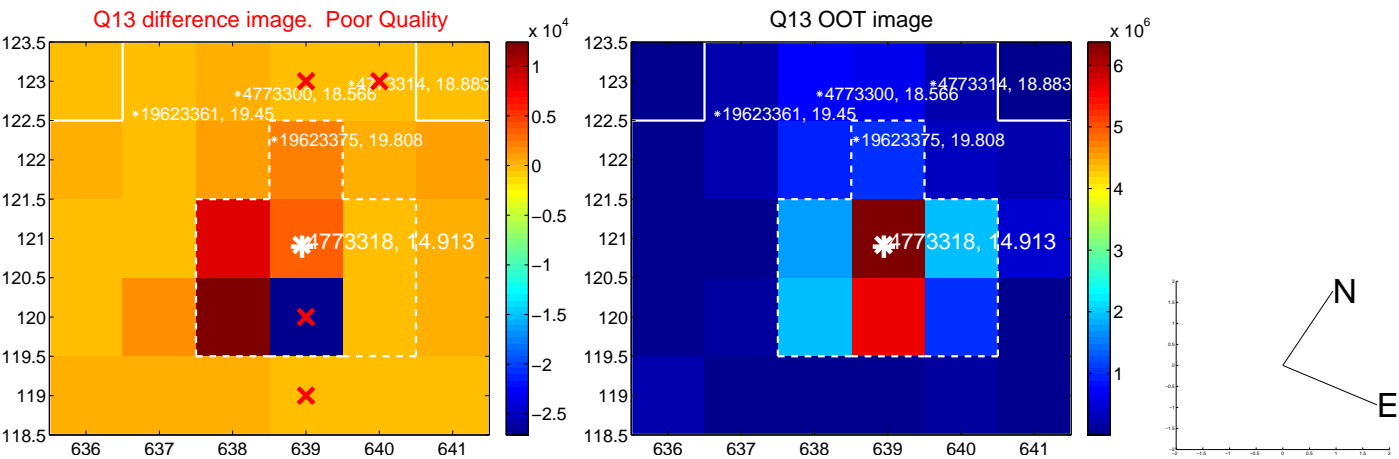
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



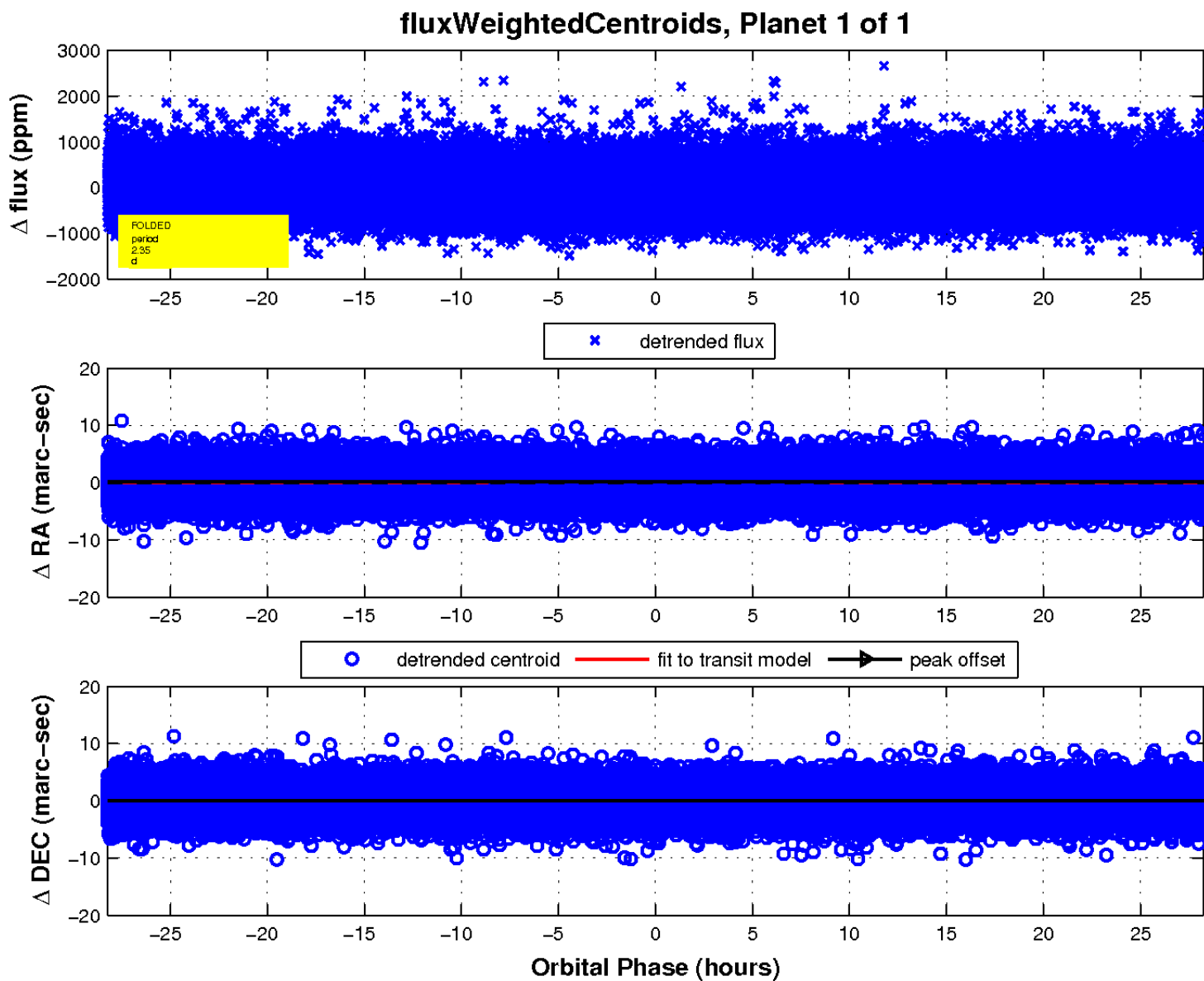
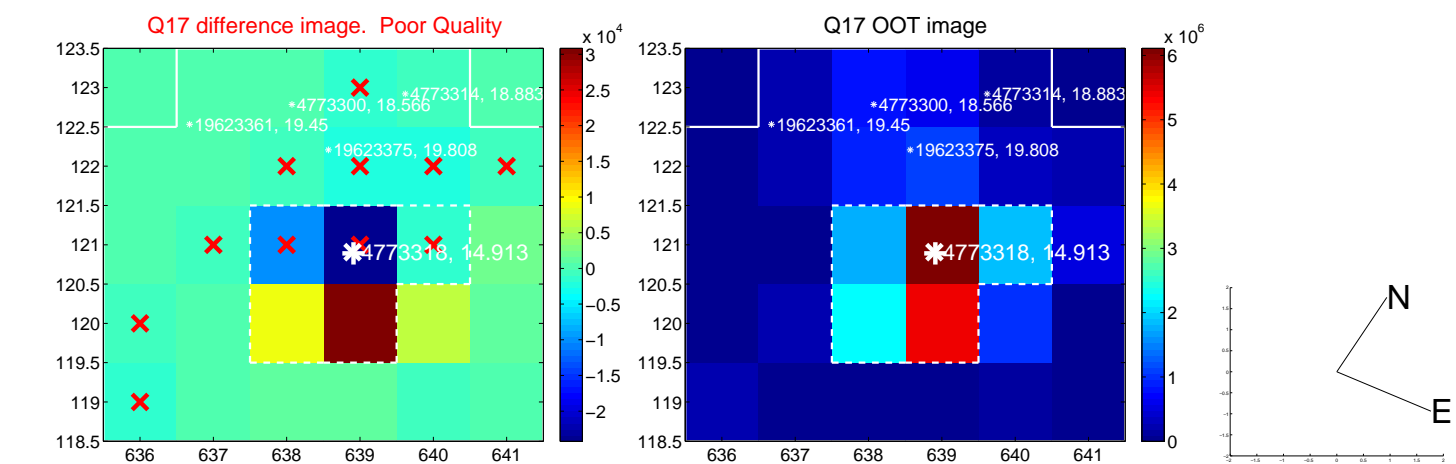
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UKIRT Image

