

KIC 011465678

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})
011465678-01	OBS	No	5.188117	134.023733	57.8	62.257	8.4	12.2	1.07	6193	1.17	402.34

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011465678-01	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.

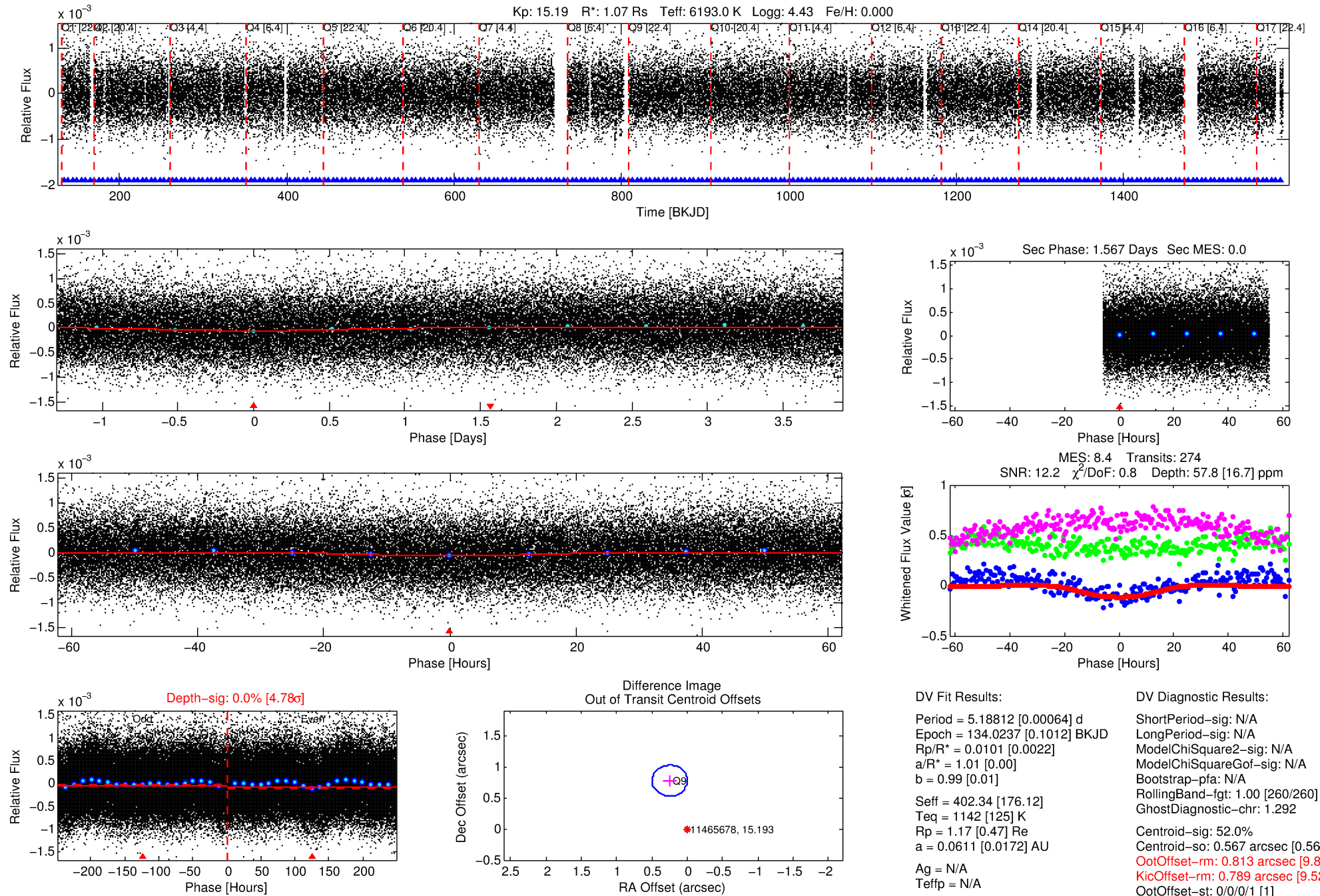
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011465678-01

No Significant Match Found

DV One-Page Summary

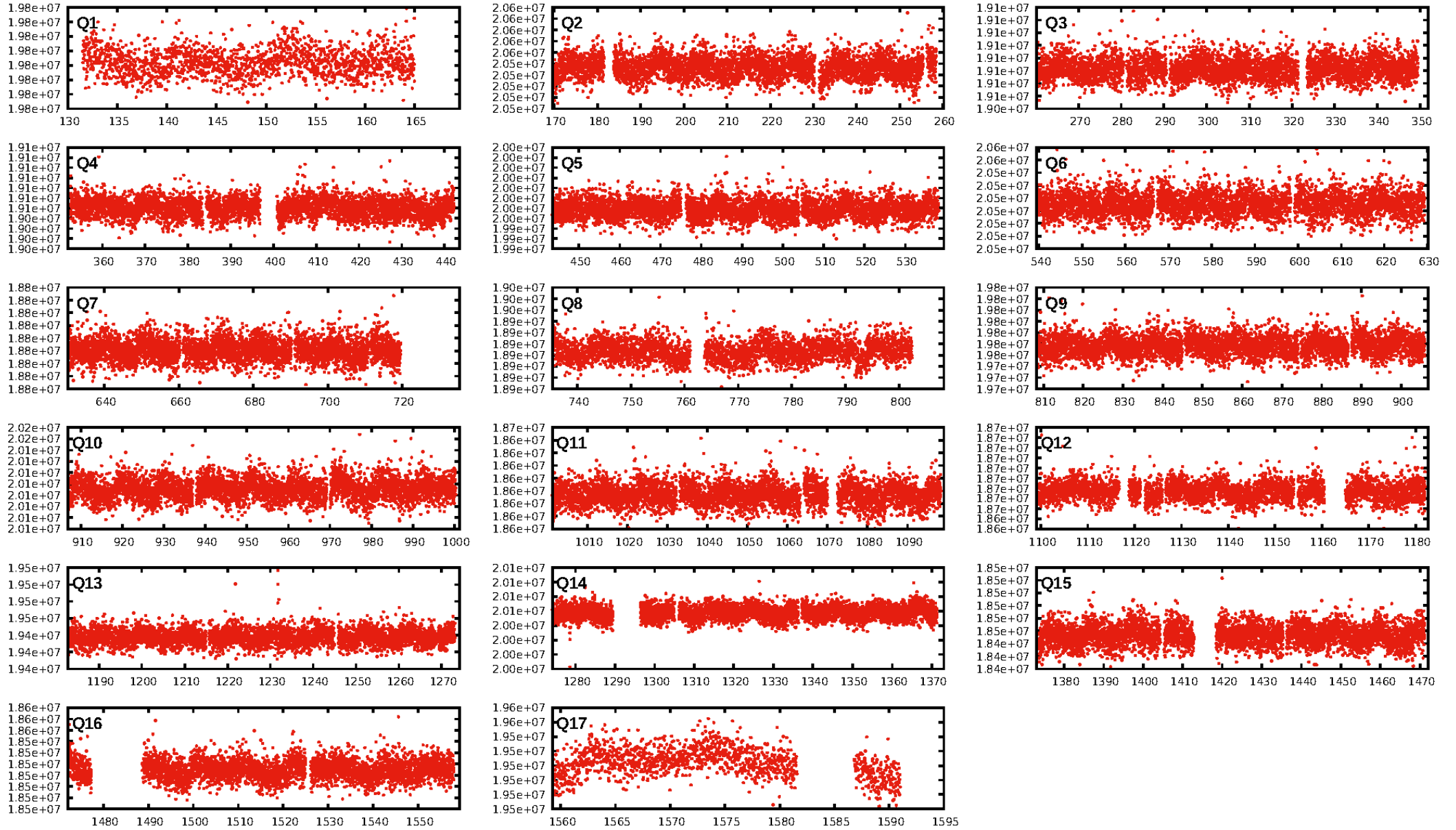
KIC: 11465678 Candidate: 1 of 1 Period: 5.188 d



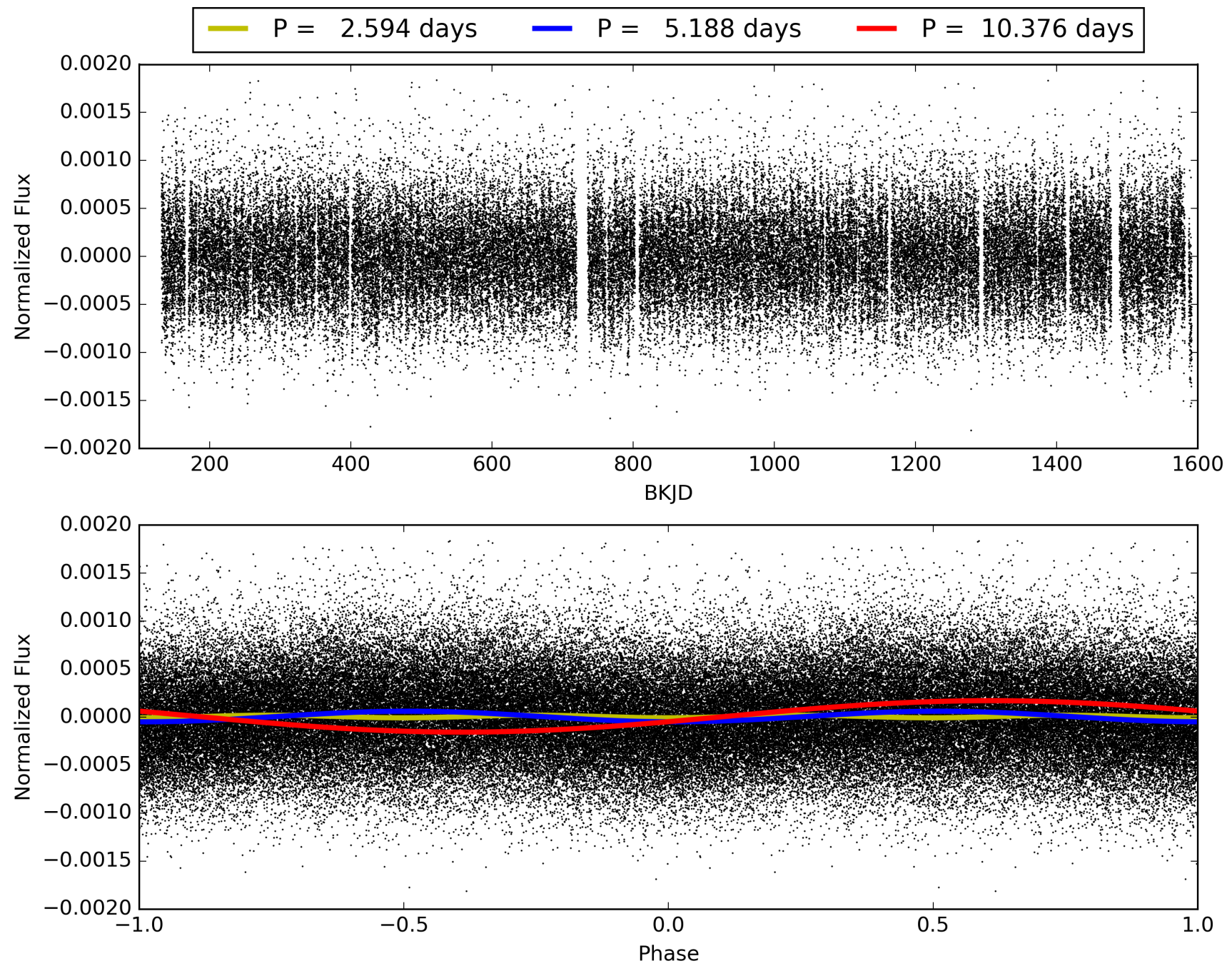
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 22:15:35 Z

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

TCE 011465678-01, PDC Light Curves

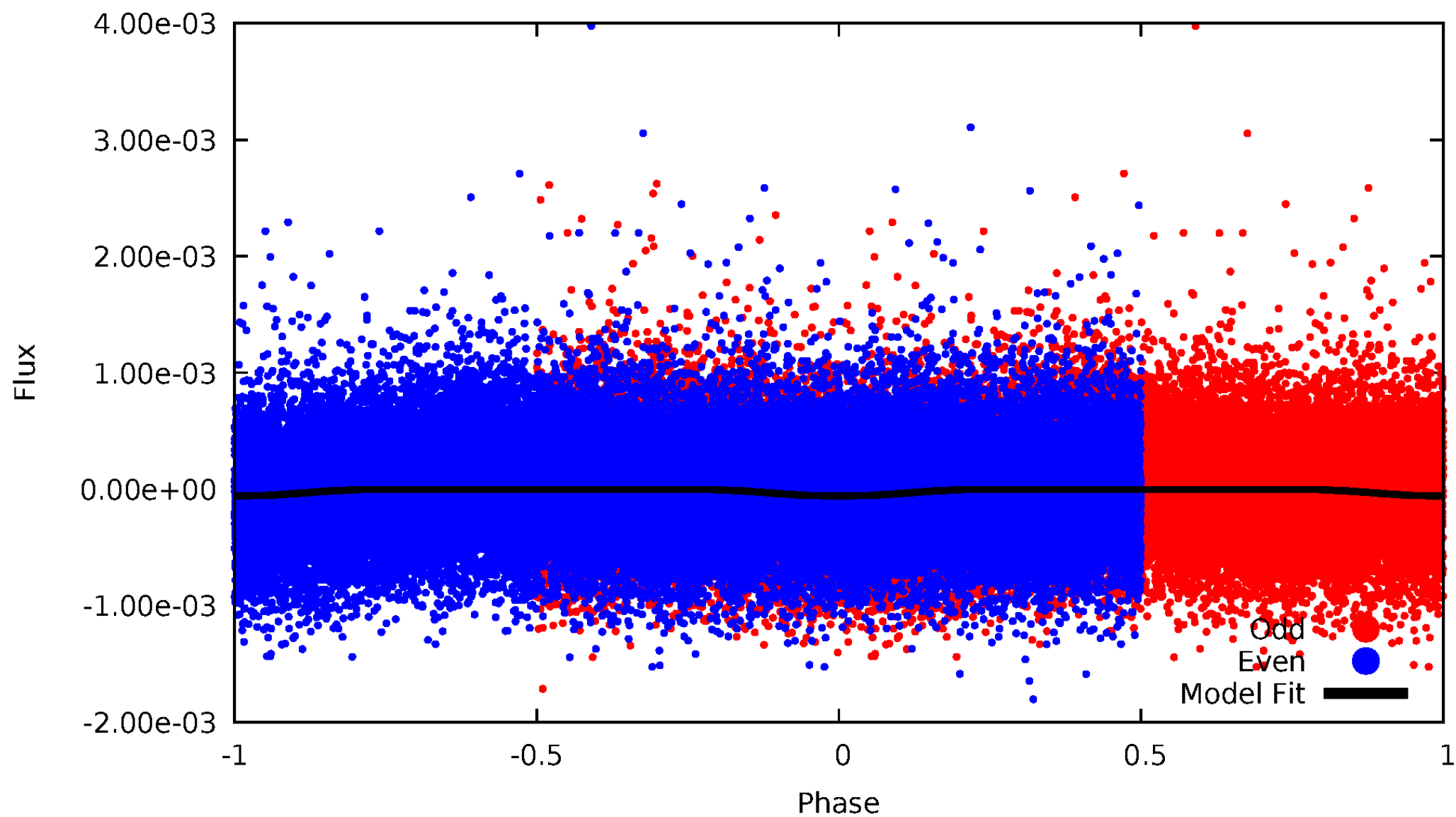


TCE 011465678-01



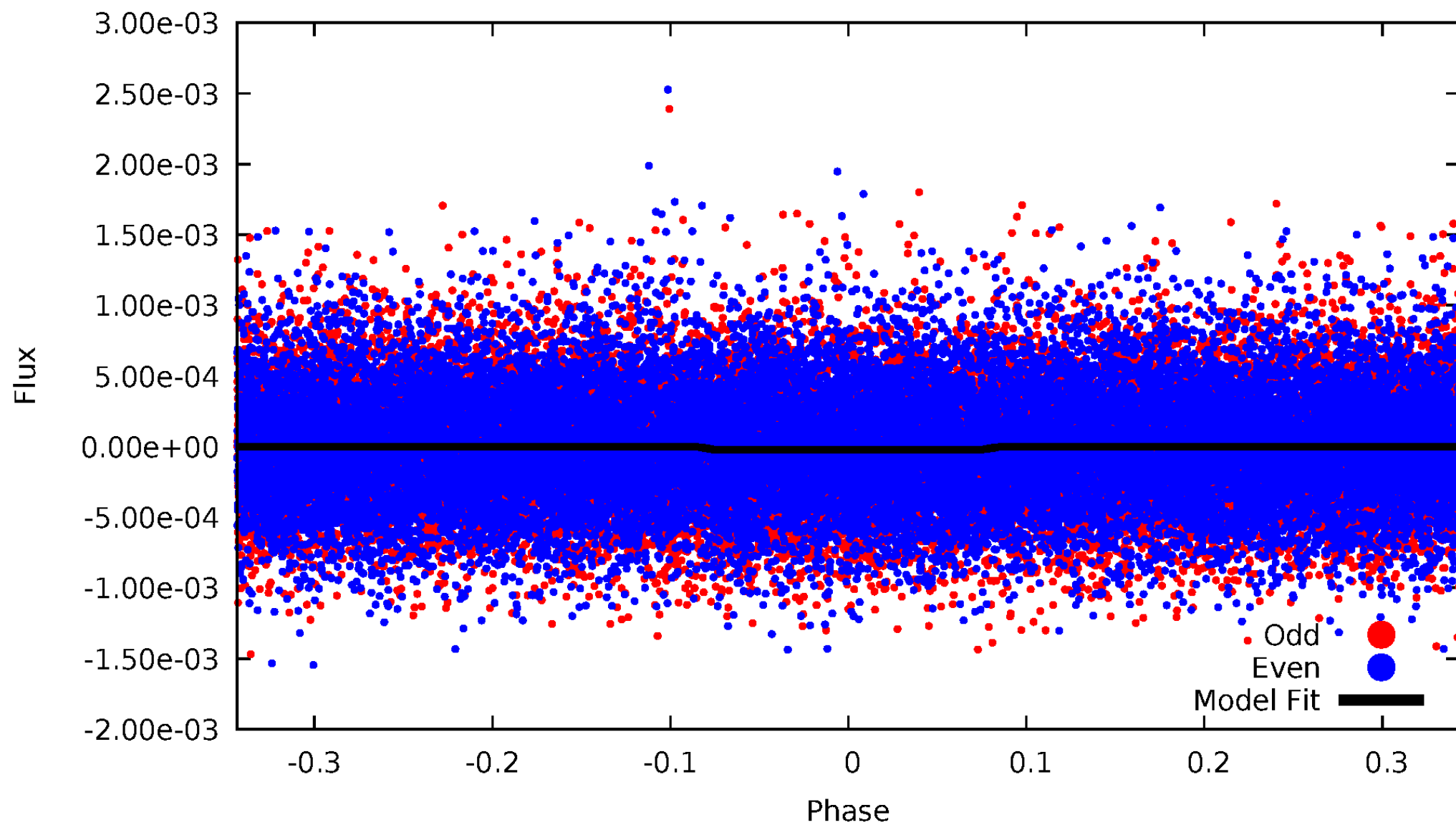
DV Odd/Even

TCE 011465678-01



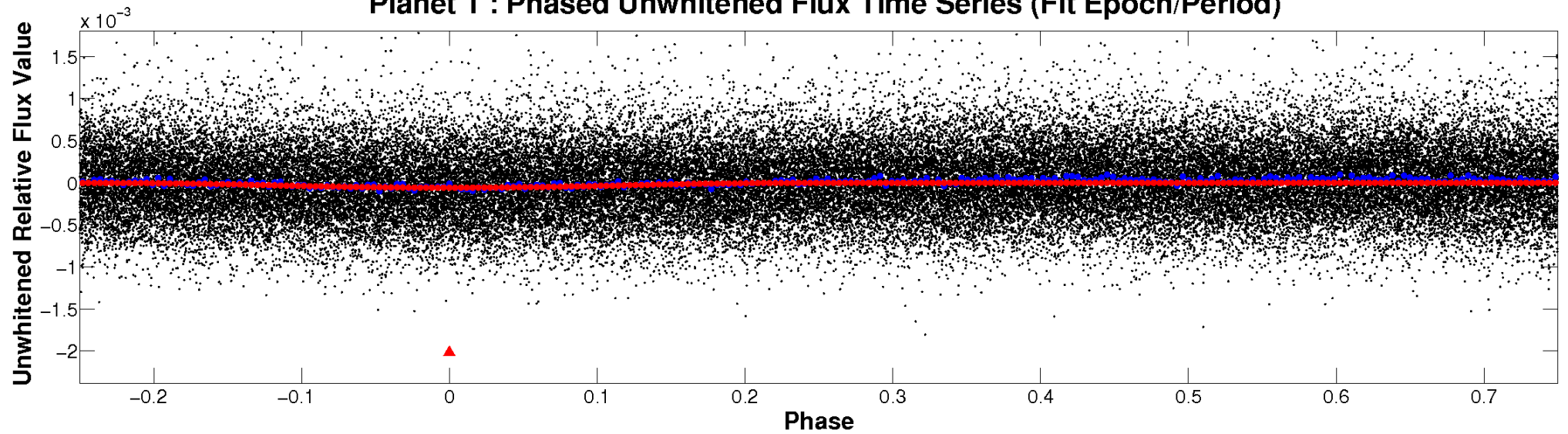
ALT Odd/Even

TCE 011465678-01

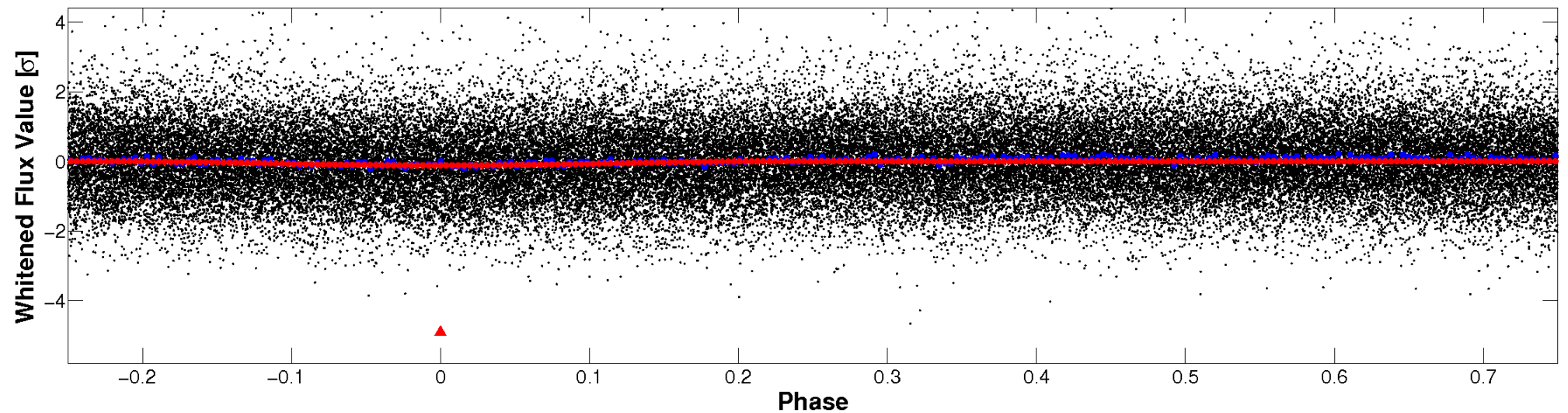


Non-Whitened Vs. Whitened Light Curve

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

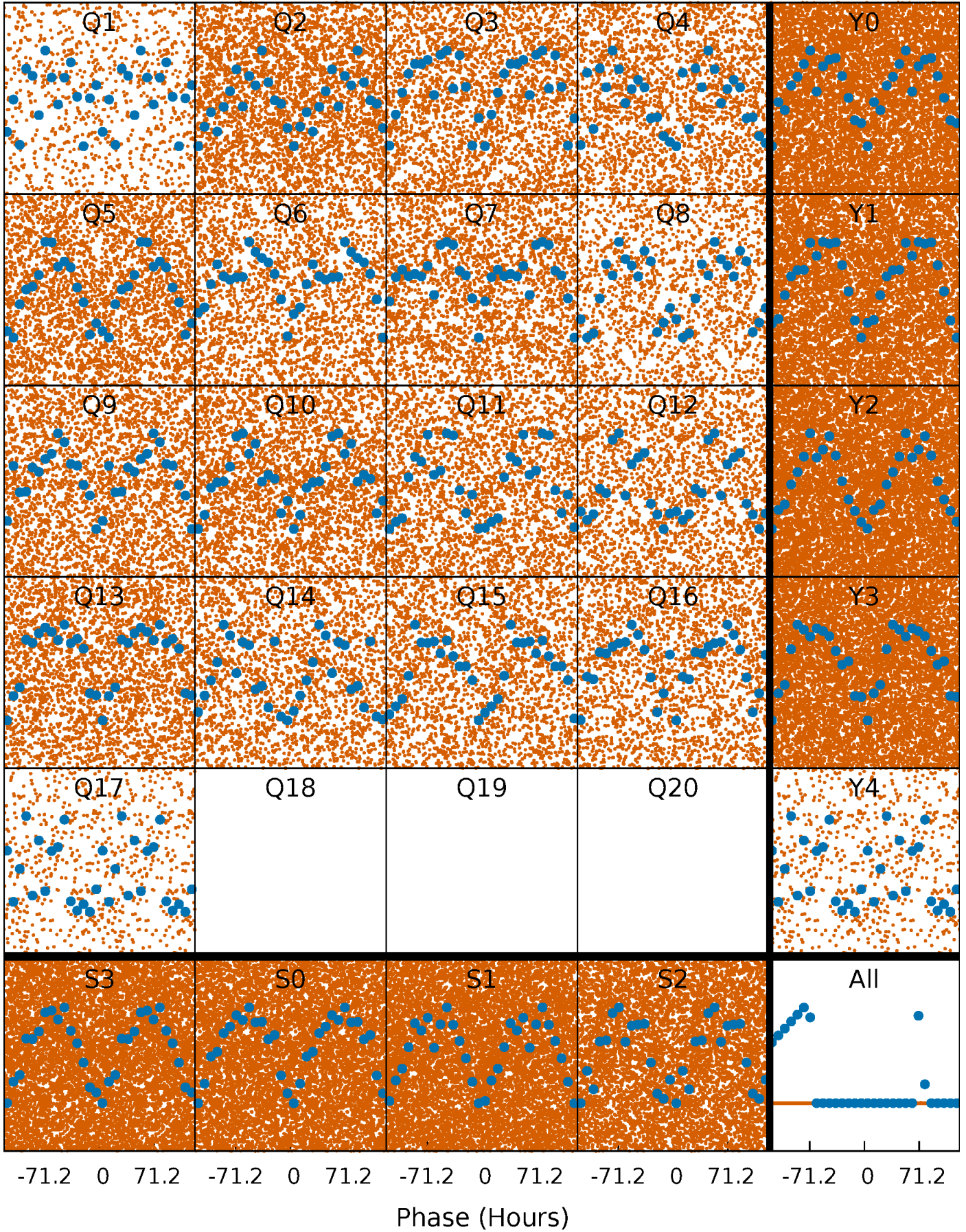


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



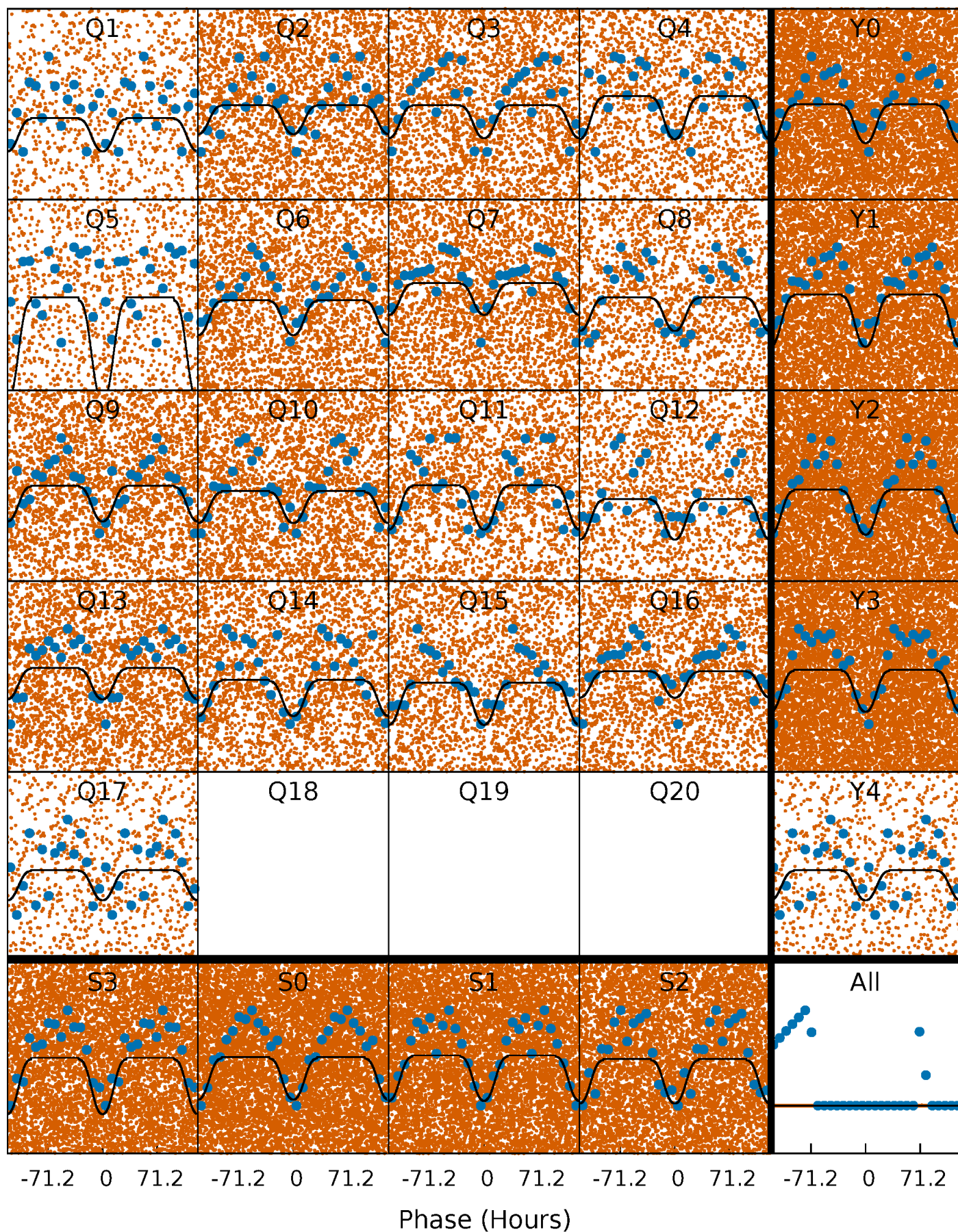
PDC Quarter-Phased Transit Curves

TCE 011465678-01 P= 5.188117 Days $T_0=134.023733$ (BKJD)



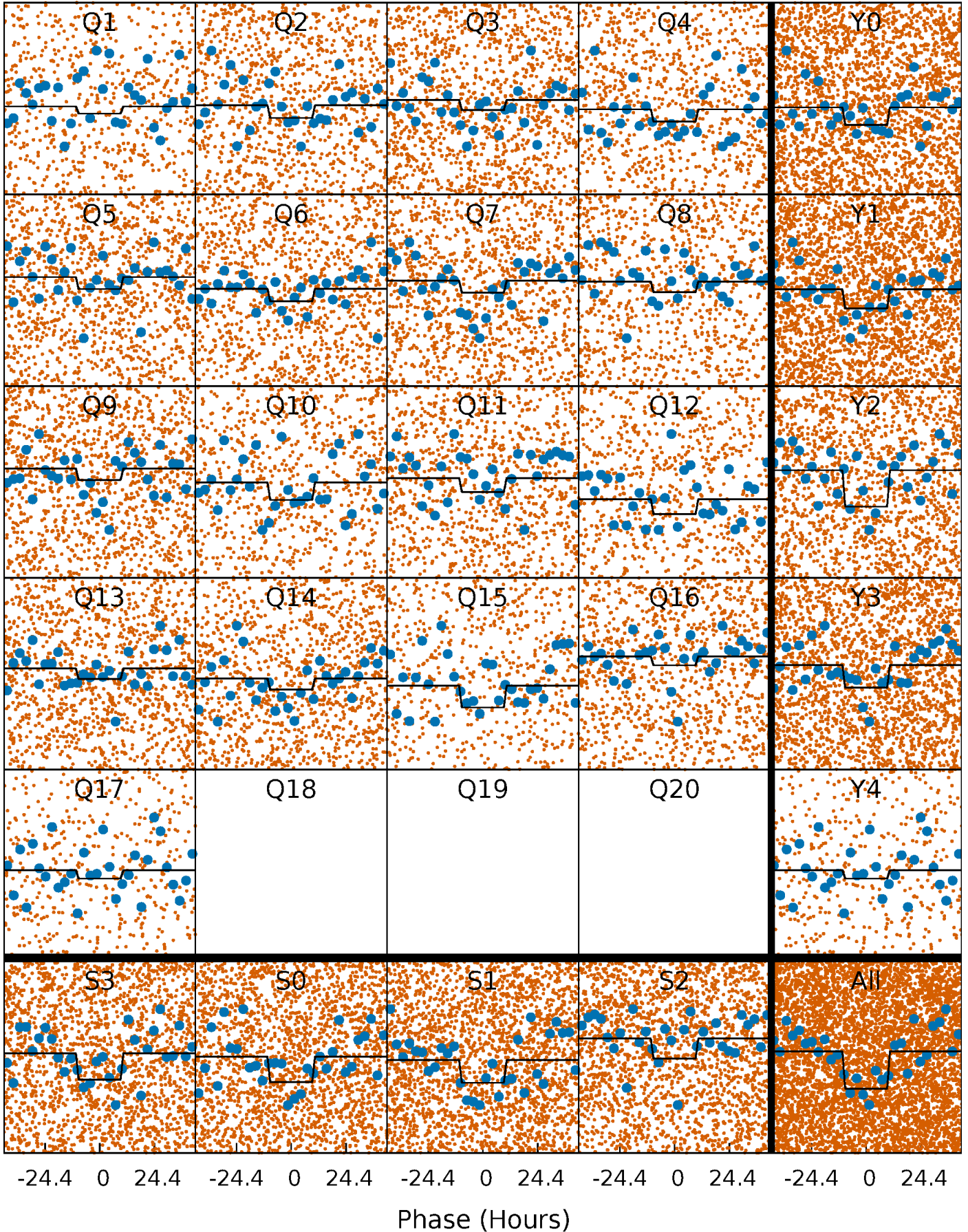
DV Quarter-Phased Transit Curves

TCE 011465678-01 P= 5.188117 Days $T_0=134.023733$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

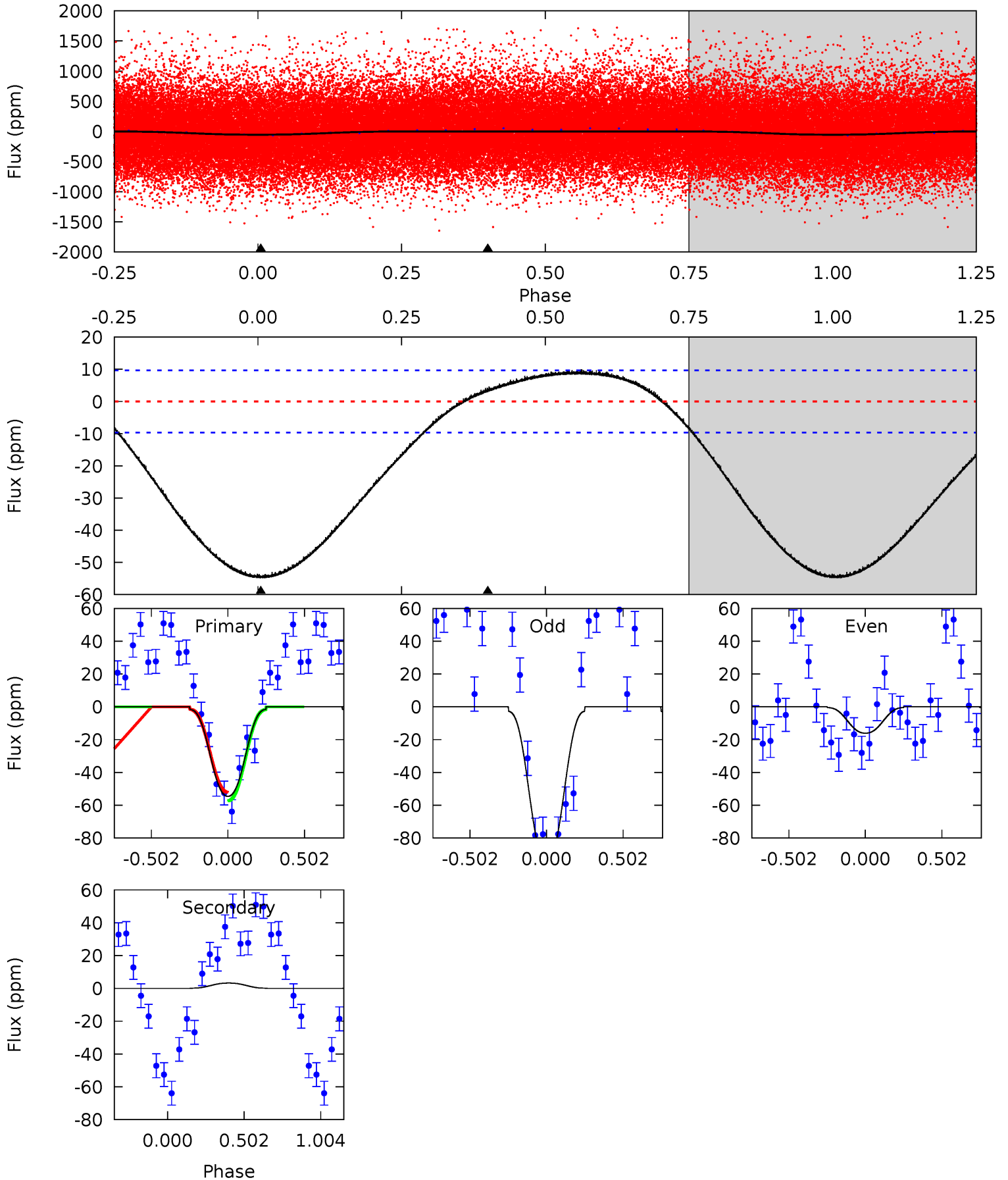
TCE 011465678-01 P= 5.189066 Days $T_0=133.847015$ (BKJD)



DV Model-Shift Uniqueness Test

011465678-01, P = 5.188117 Days, E = 128.835616 Days

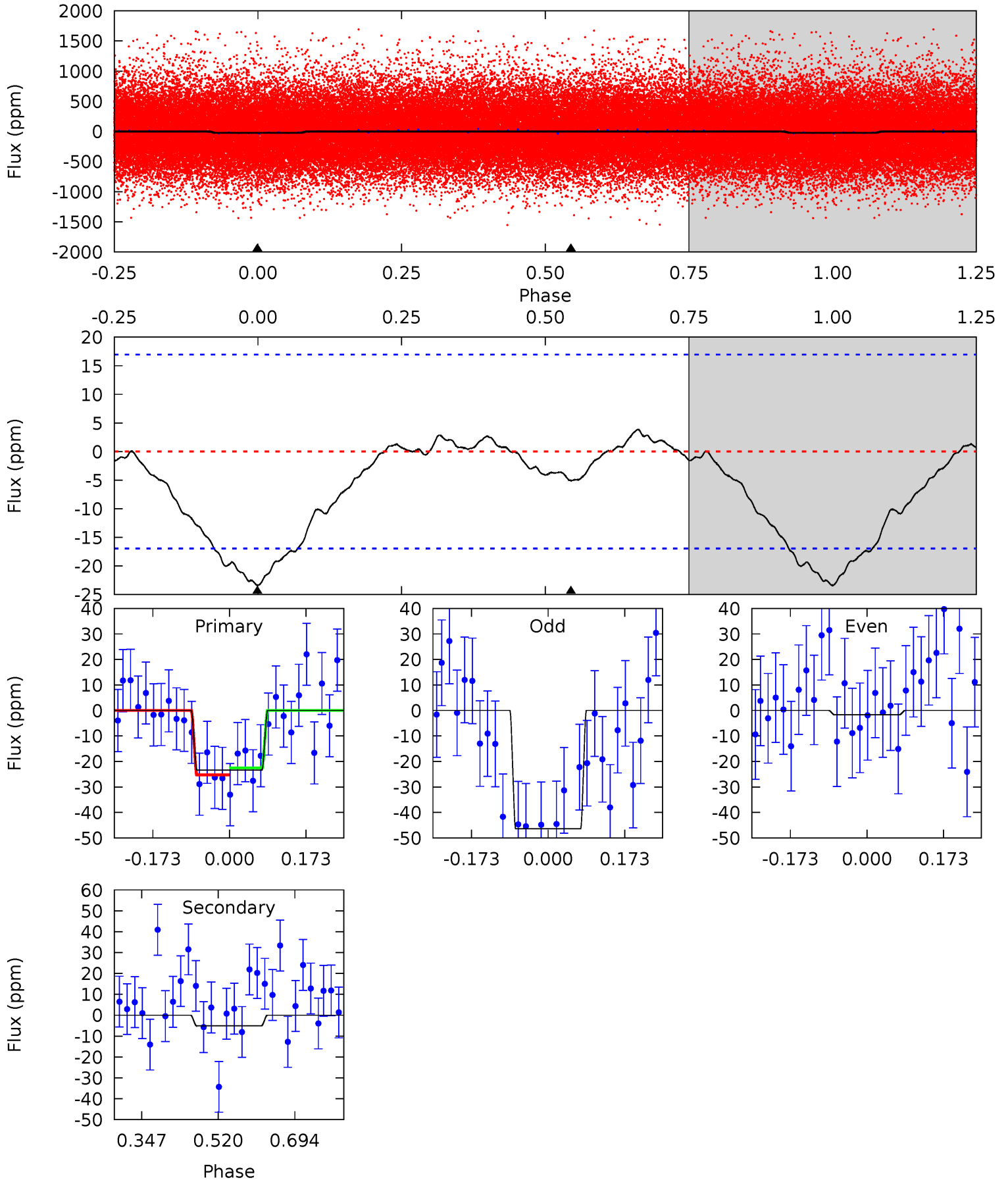
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.8	-1.41	0	0	4.21	0.67	1.95	23.8	23.8	-1.41	-1.41	17.2	1.63	0.15	1.15



Alt Model-Shift Uniqueness Test

011465678-01, P = 5.189066 Days, E = 128.657949 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.14	1.34	0	0	4.45	1.36	0.47	6.14	6.14	1.34	1.34	5.86	0.83	0.14	0.36



Stellar Parameters For KIC 011465678

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6193^{+173}_{-238}	$4.434^{+0.070}_{-0.224}$	$0.000^{+0.250}_{-0.300}$	$1.067^{+0.357}_{-0.119}$	$1.127^{+0.151}_{-0.151}$	$1.307^{+0.388}_{-0.701}$
	+3%/-4%	+2%/-5%	+inf%/-inf%	+33%/-11%	+13%/-13%	+30%/-54%
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 011465678-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	3 ± 2	$1.22^{+0.33}_{-0.30}$	1621^{+125}_{-83}	-3222^{+469}_{-423}	$-4.316^{+3.092}_{-5.552}$
Alt.	-5 ± 4	$0.59^{+0.29}_{-0.27}$	1620^{+134}_{-90}	4322^{+1515}_{-953}	27^{+82}_{-21}

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

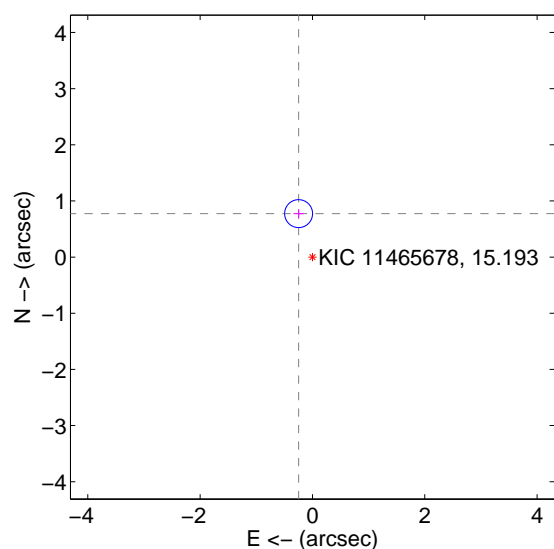
Supplemental centroid analysis for 011465678-01. Kepler magnitude: 15.19. Transit SNR 12.23

There are 1 quarters with good PRF difference image offsets

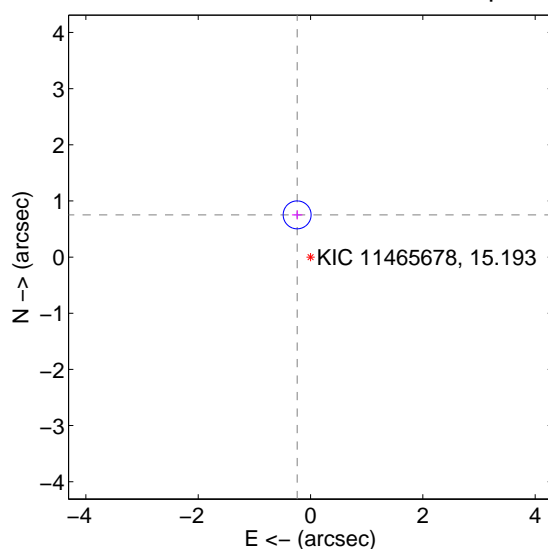
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.813 ± 0.083	9.81	0.246 ± 0.093	0.774 ± 0.082
PRF-fit source offset from KIC position	0.789 ± 0.083	9.52	0.238 ± 0.093	0.752 ± 0.082
photometric centroid source offset	0.57 ± 1.01	0.56	-0.36 ± 0.98	-0.44 ± 1.03

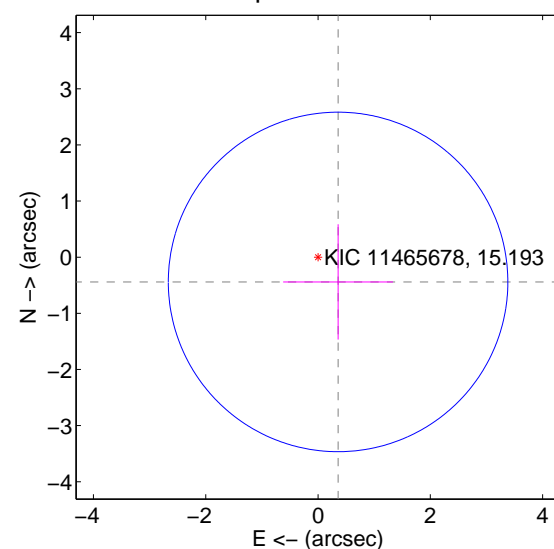
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

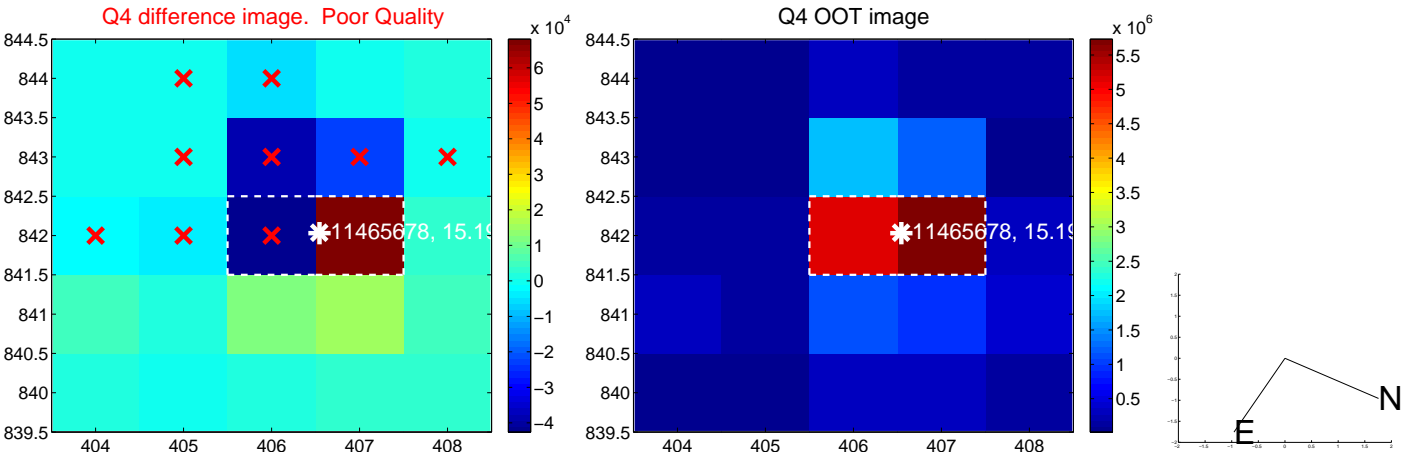
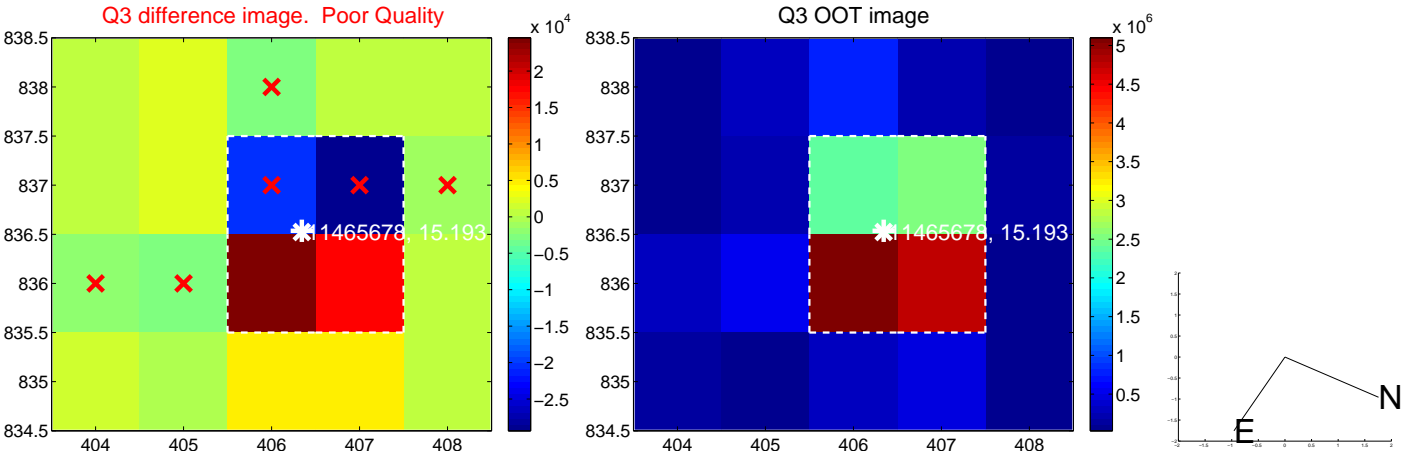
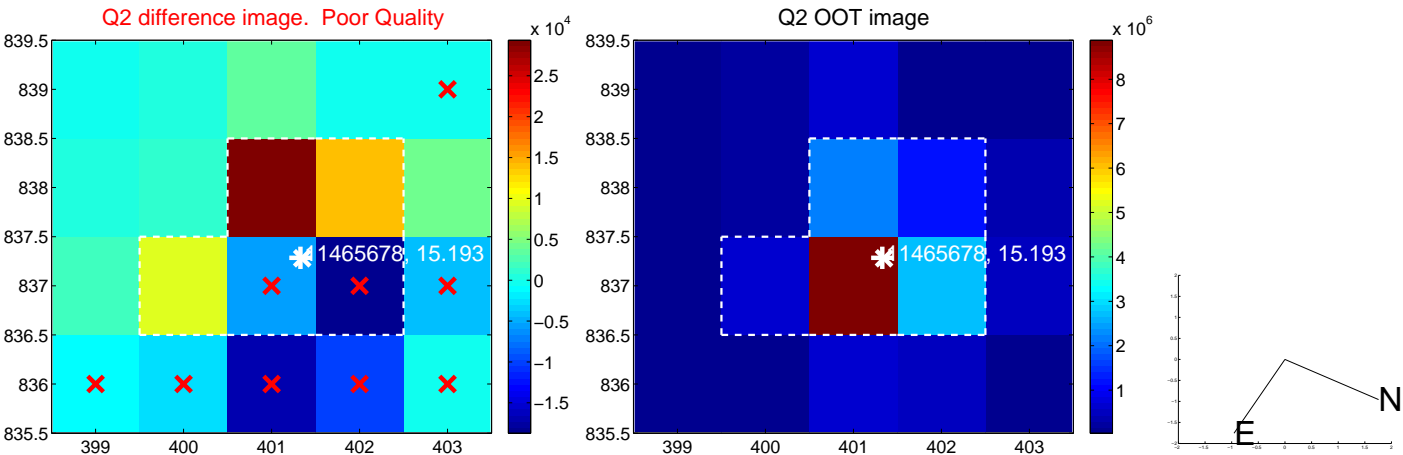
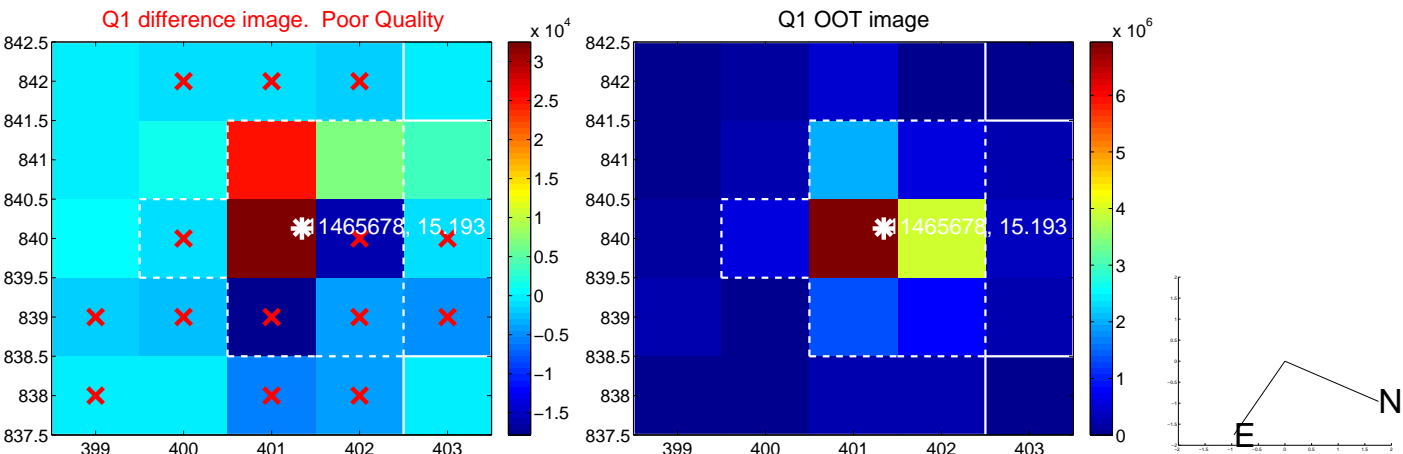


offset from photometric centroids

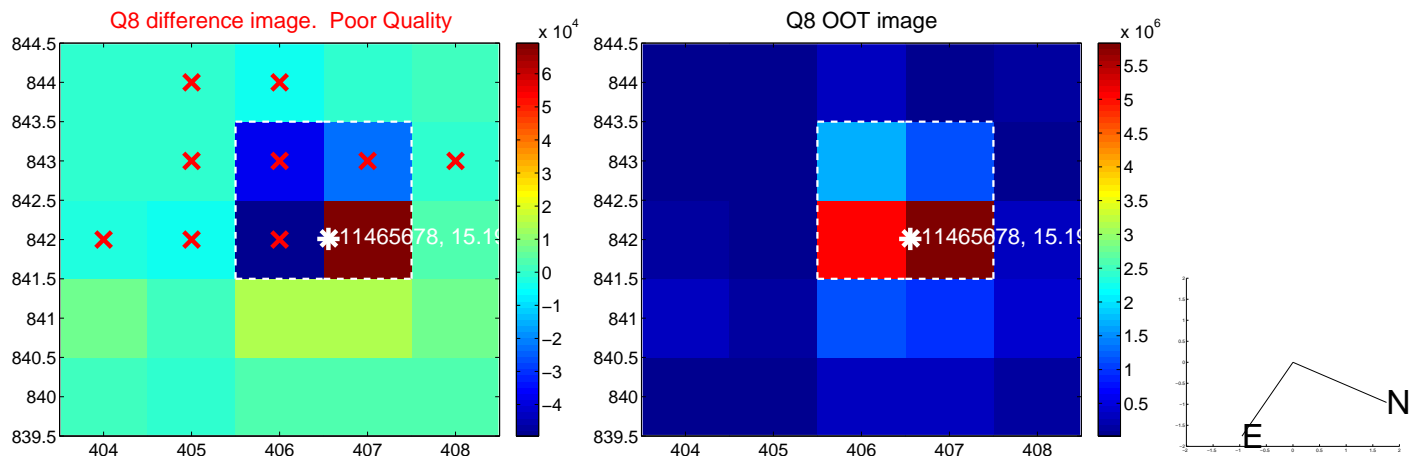
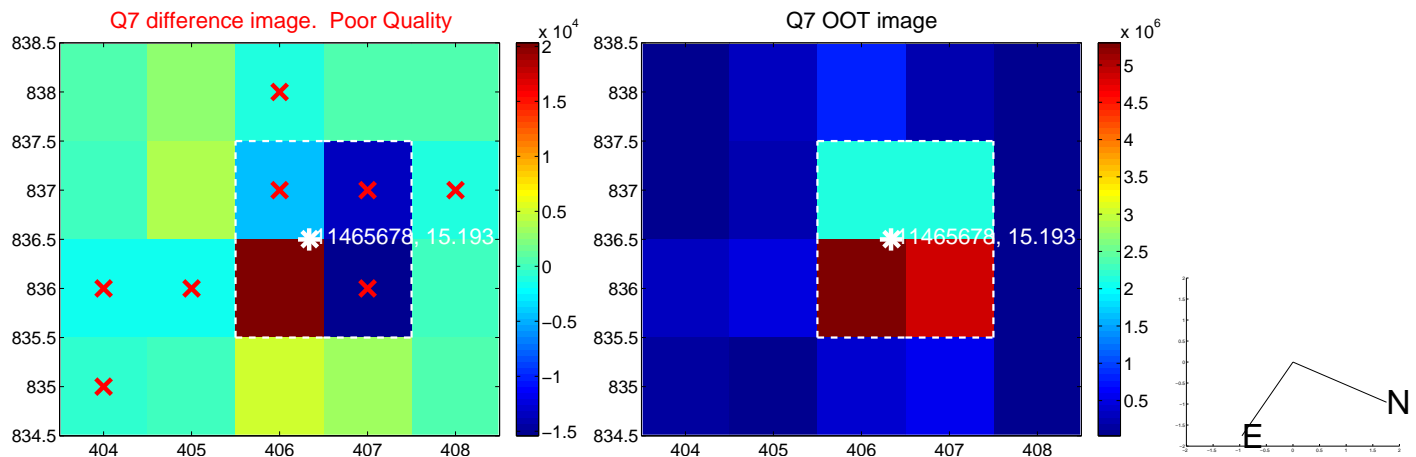
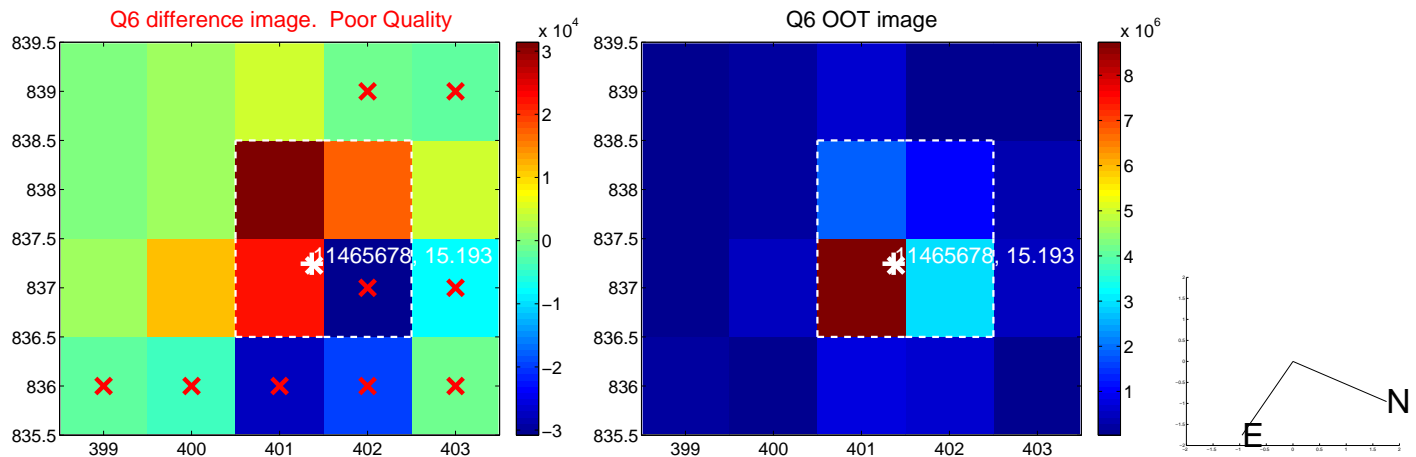
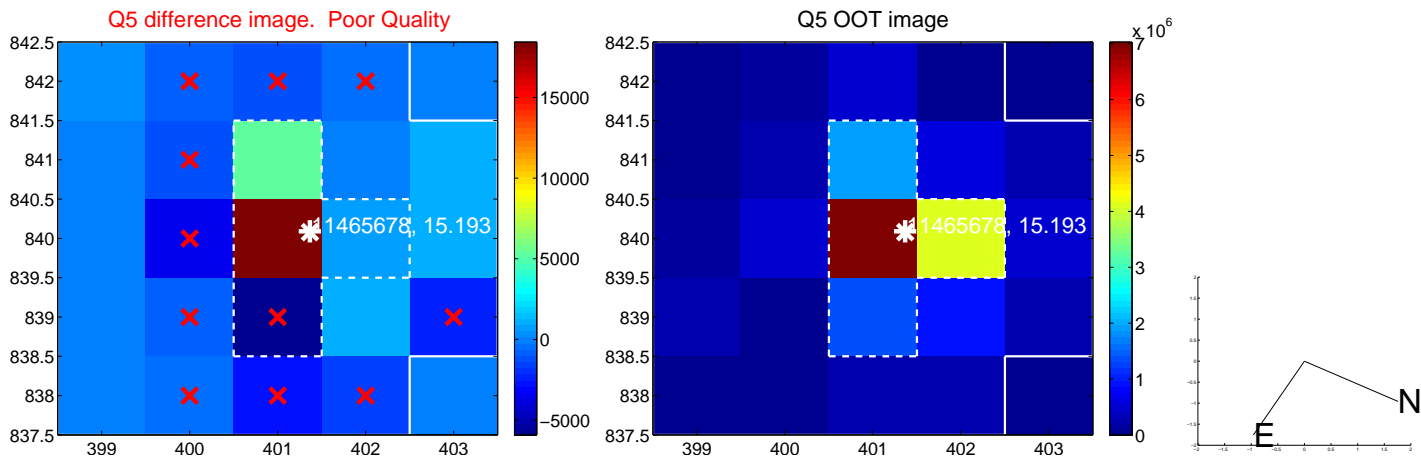


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

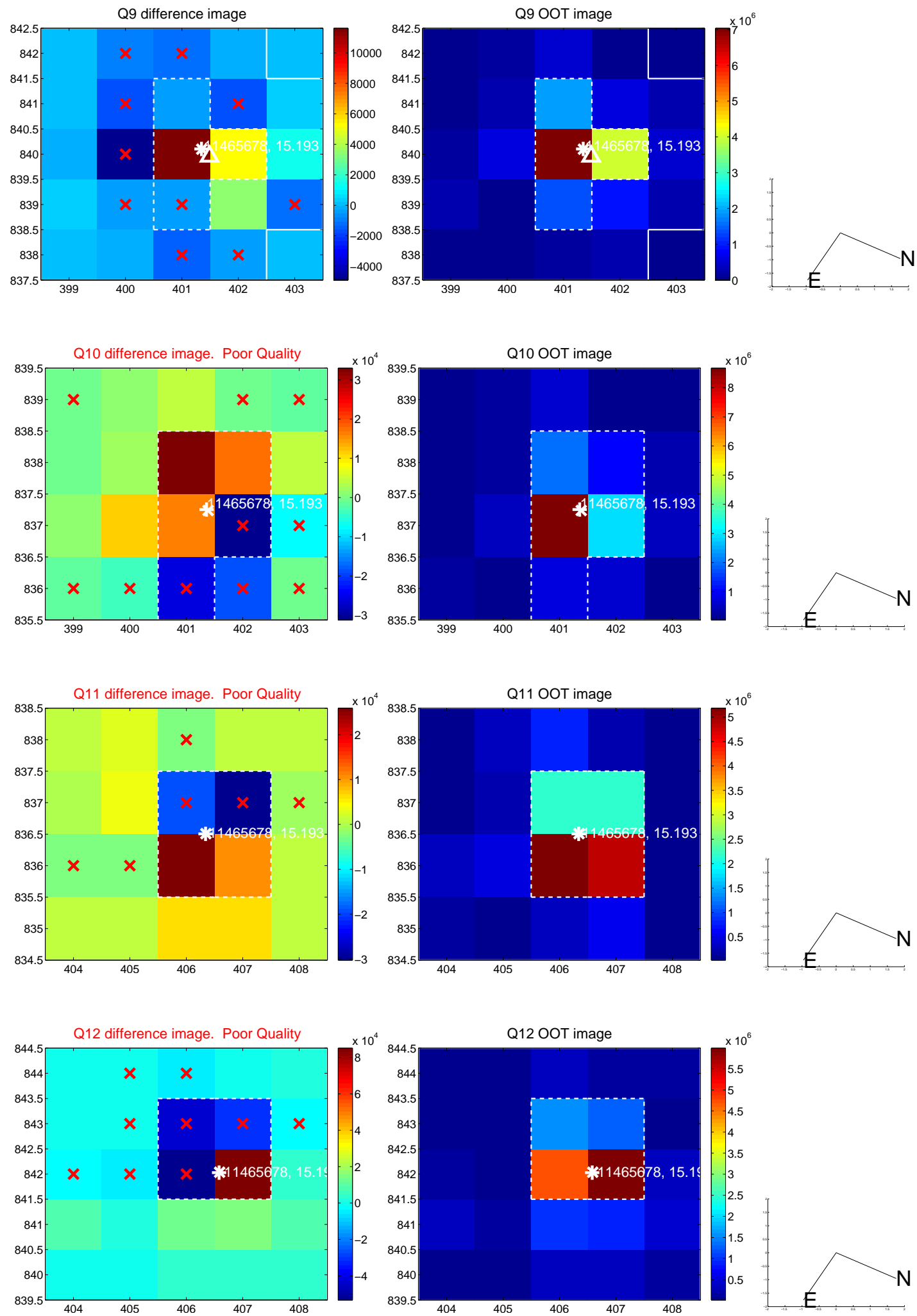
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



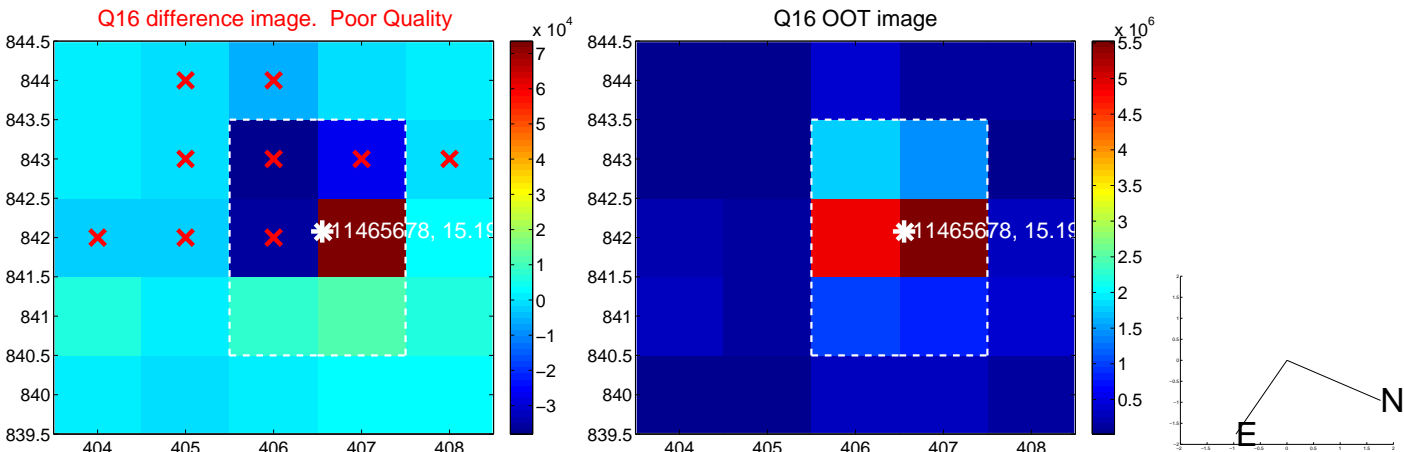
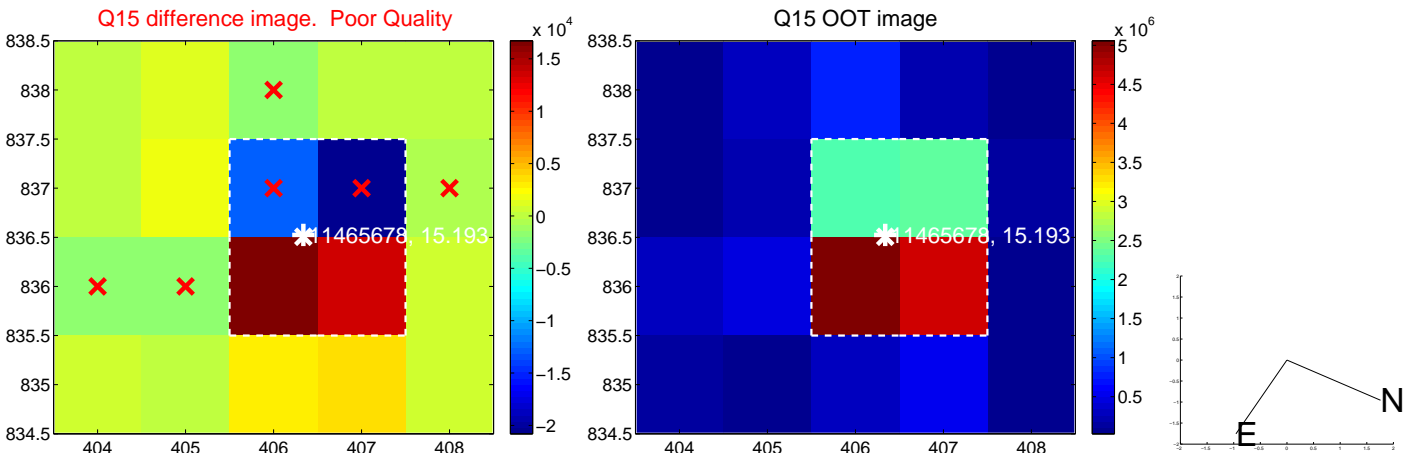
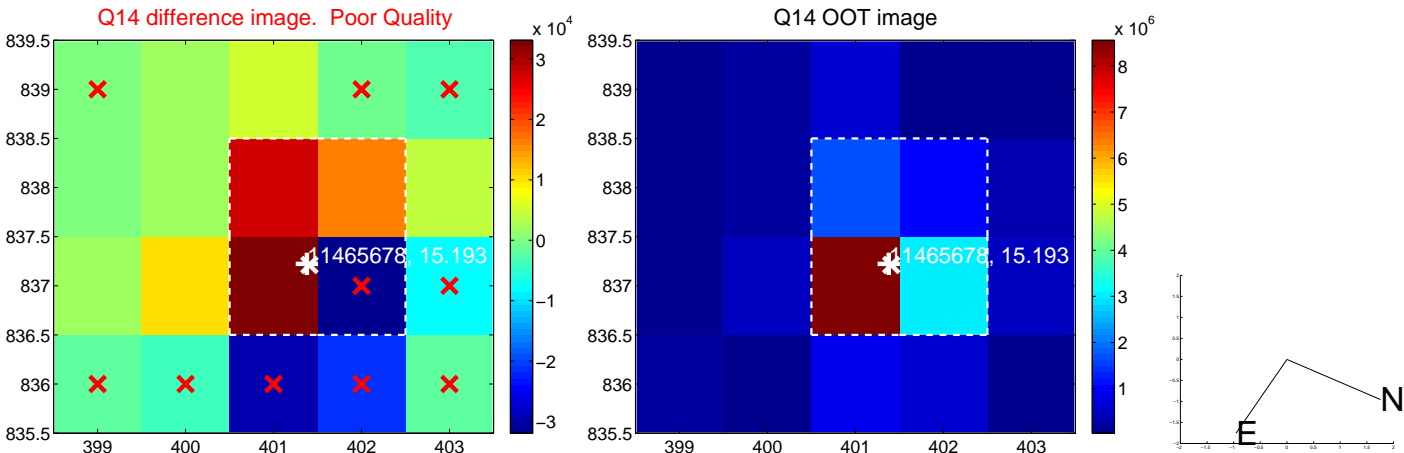
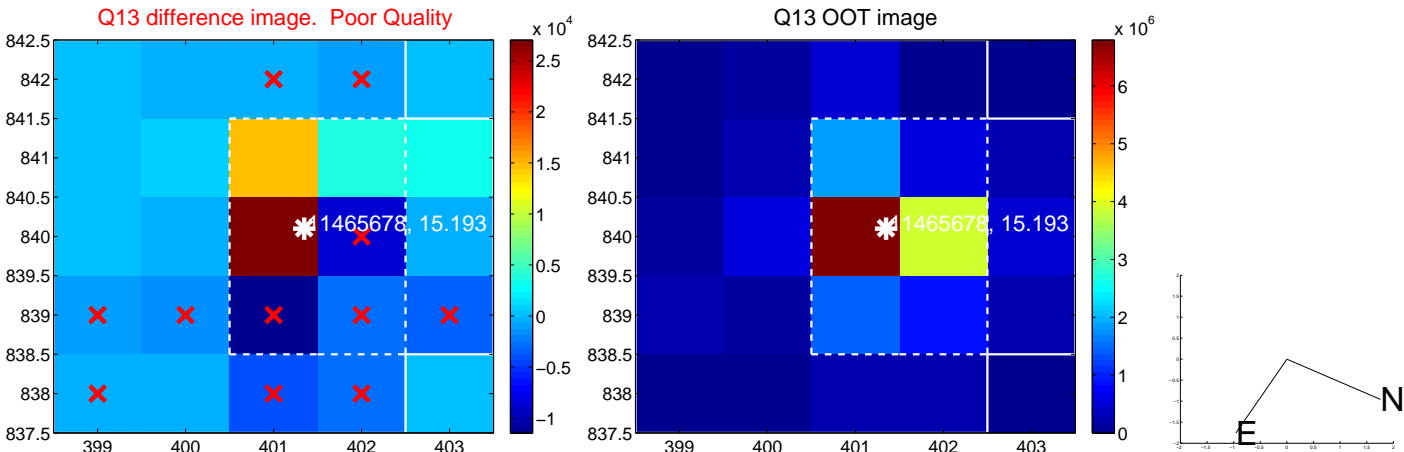
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



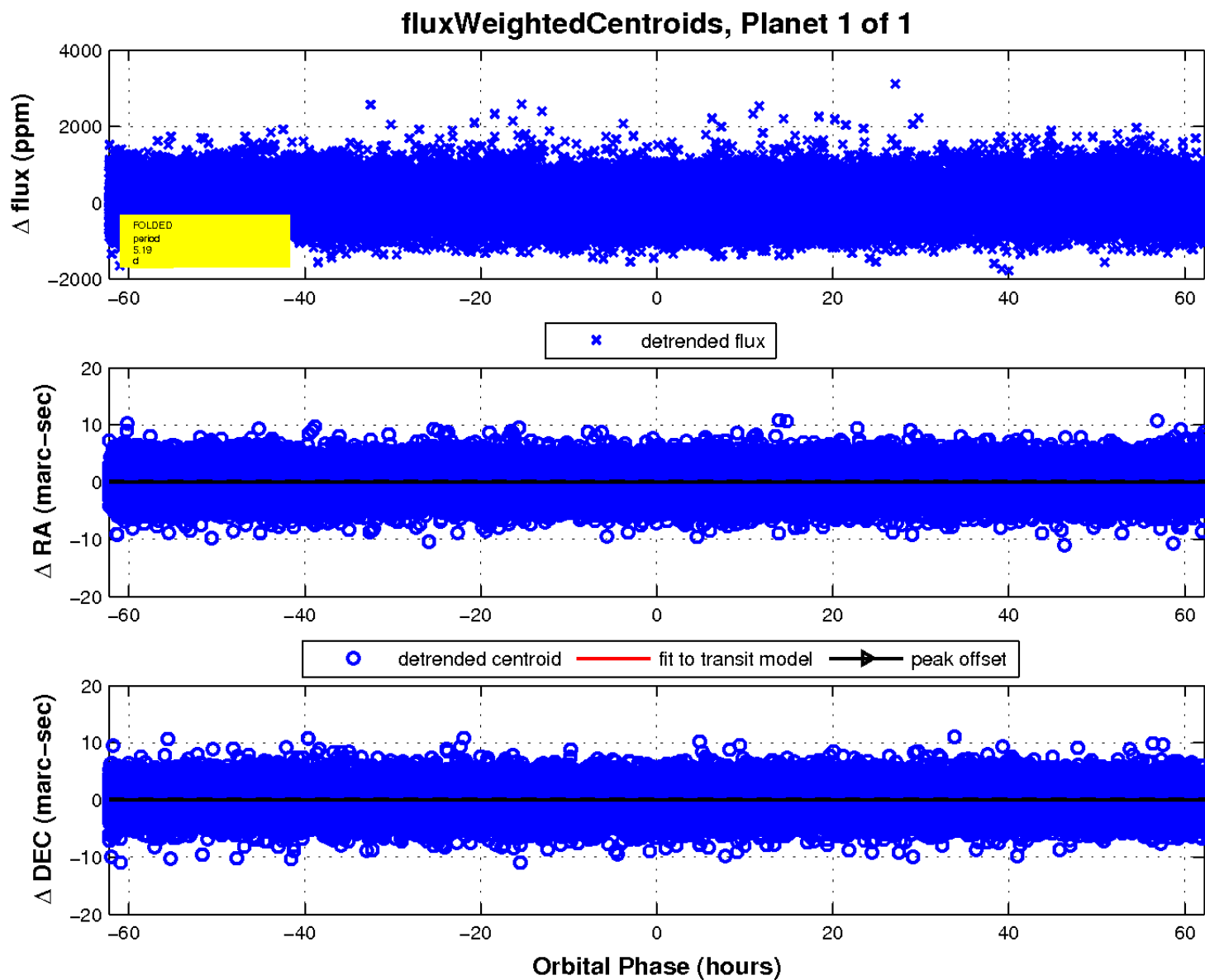
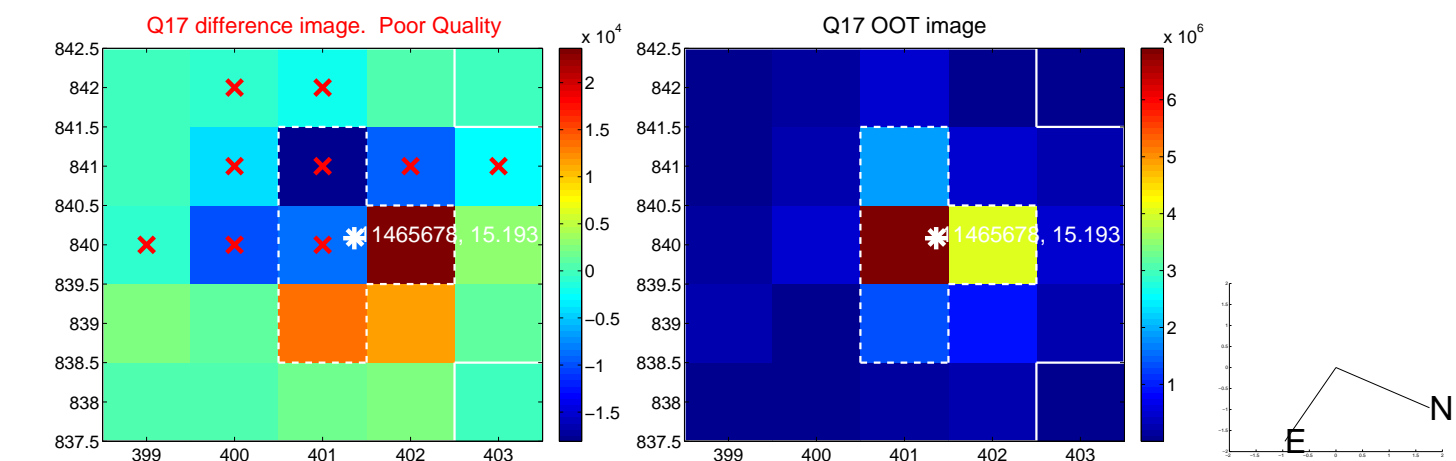
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UKIRT Image

Declination

