

KIC 005877292

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})
005877292-01	OBS	7744.01	11.720069	136.197321	182.1	2.180	7.3	8.1	1.07	6193	1.69	135.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005877292-01	OBS	PC	0.59	0	0	0	0	NO_COMMENT

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

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

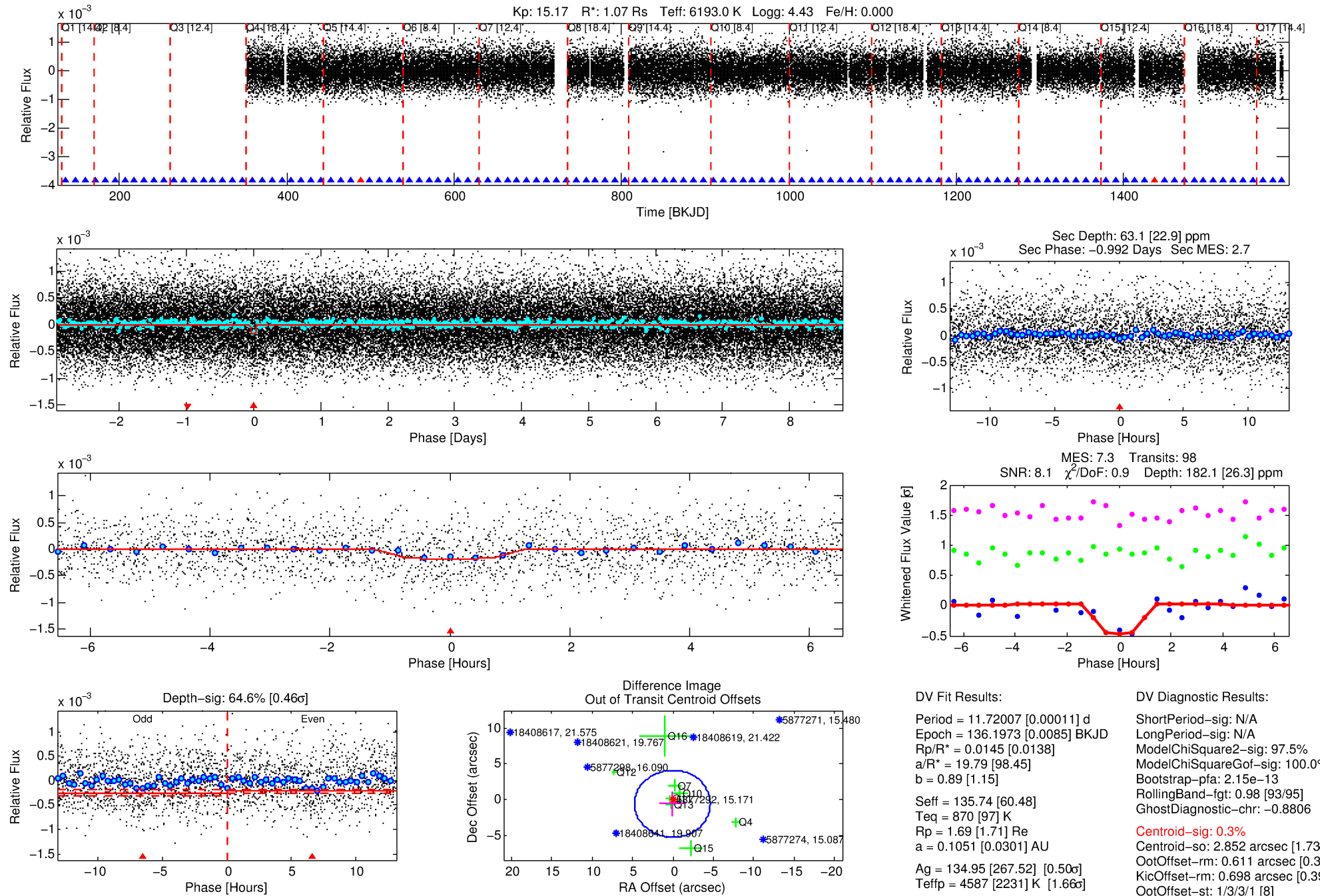
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005877292-01

No Significant Match Found

DV One-Page Summary

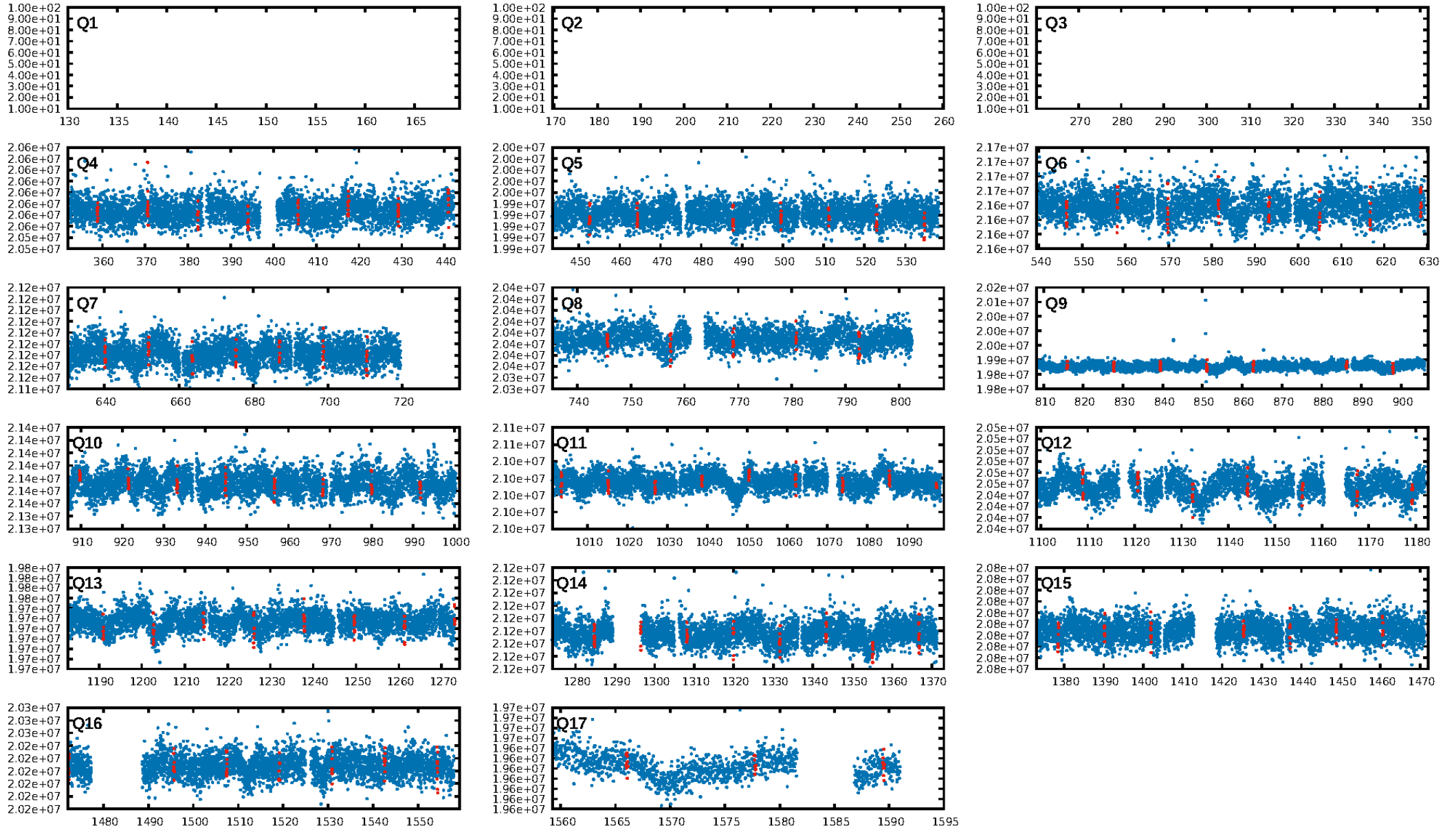
KIC: 5877292 Candidate: 1 of 1 Period: 11.720 d



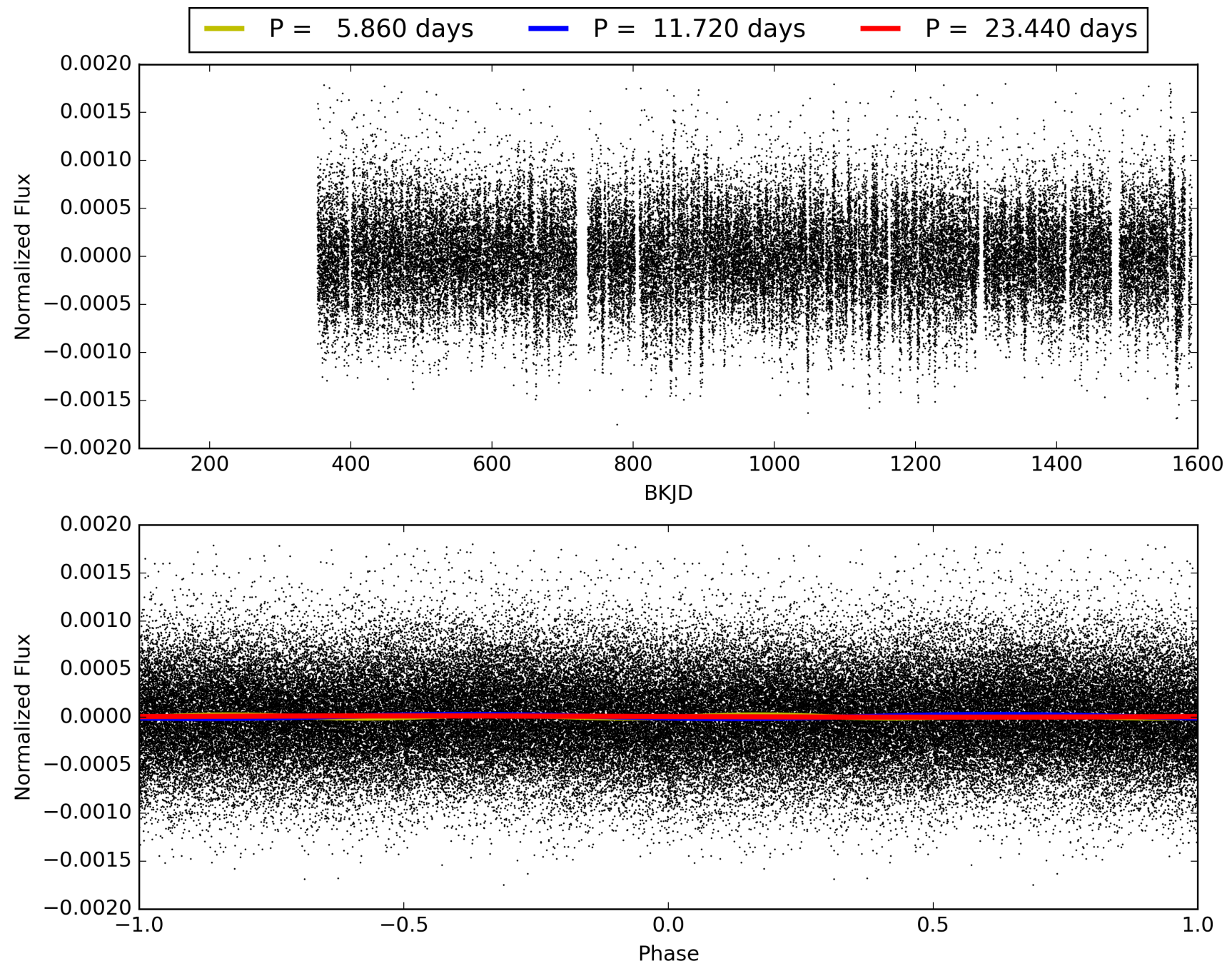
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:18:04 Z

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

TCE 005877292-01, PDC Light Curves

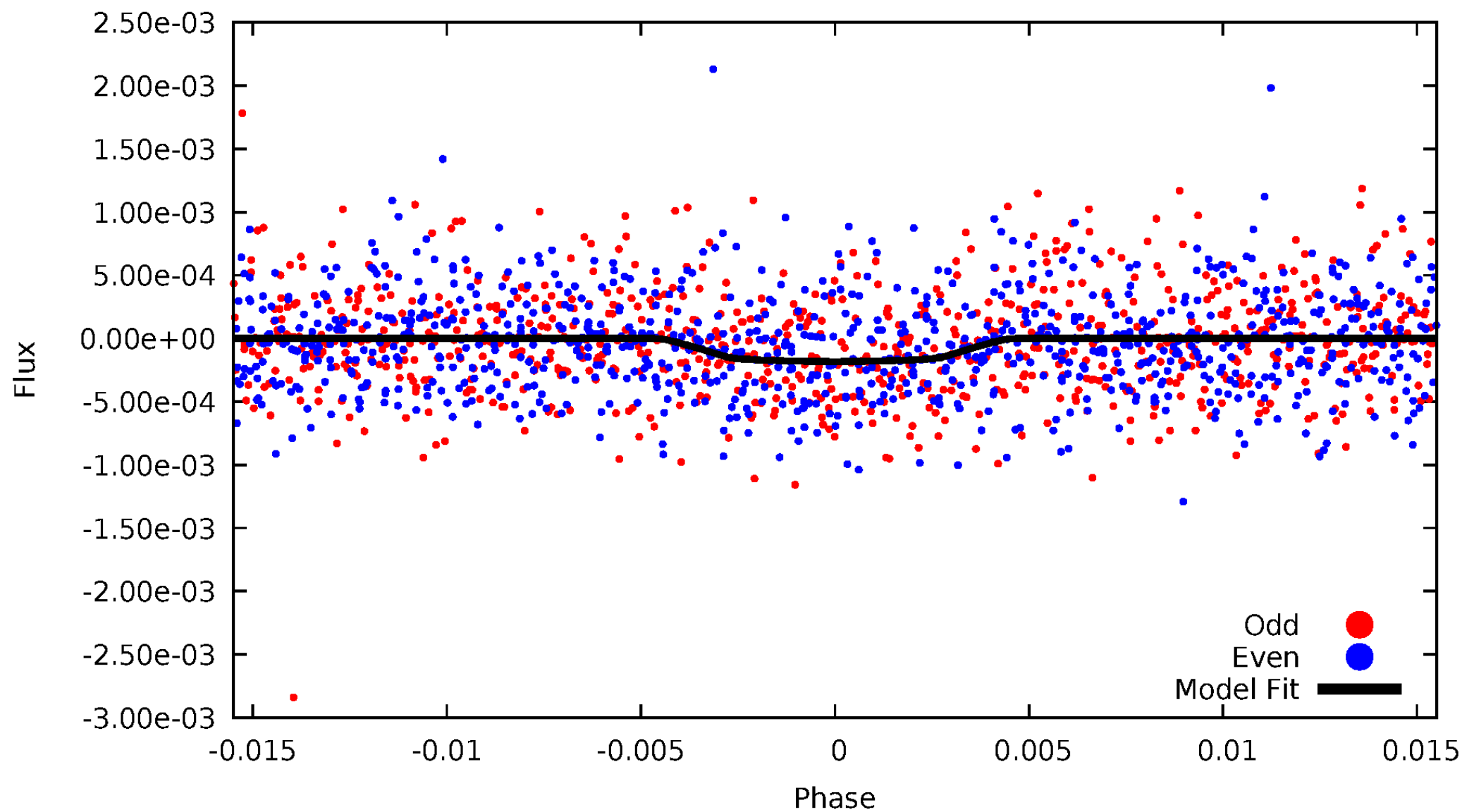


TCE 005877292-01



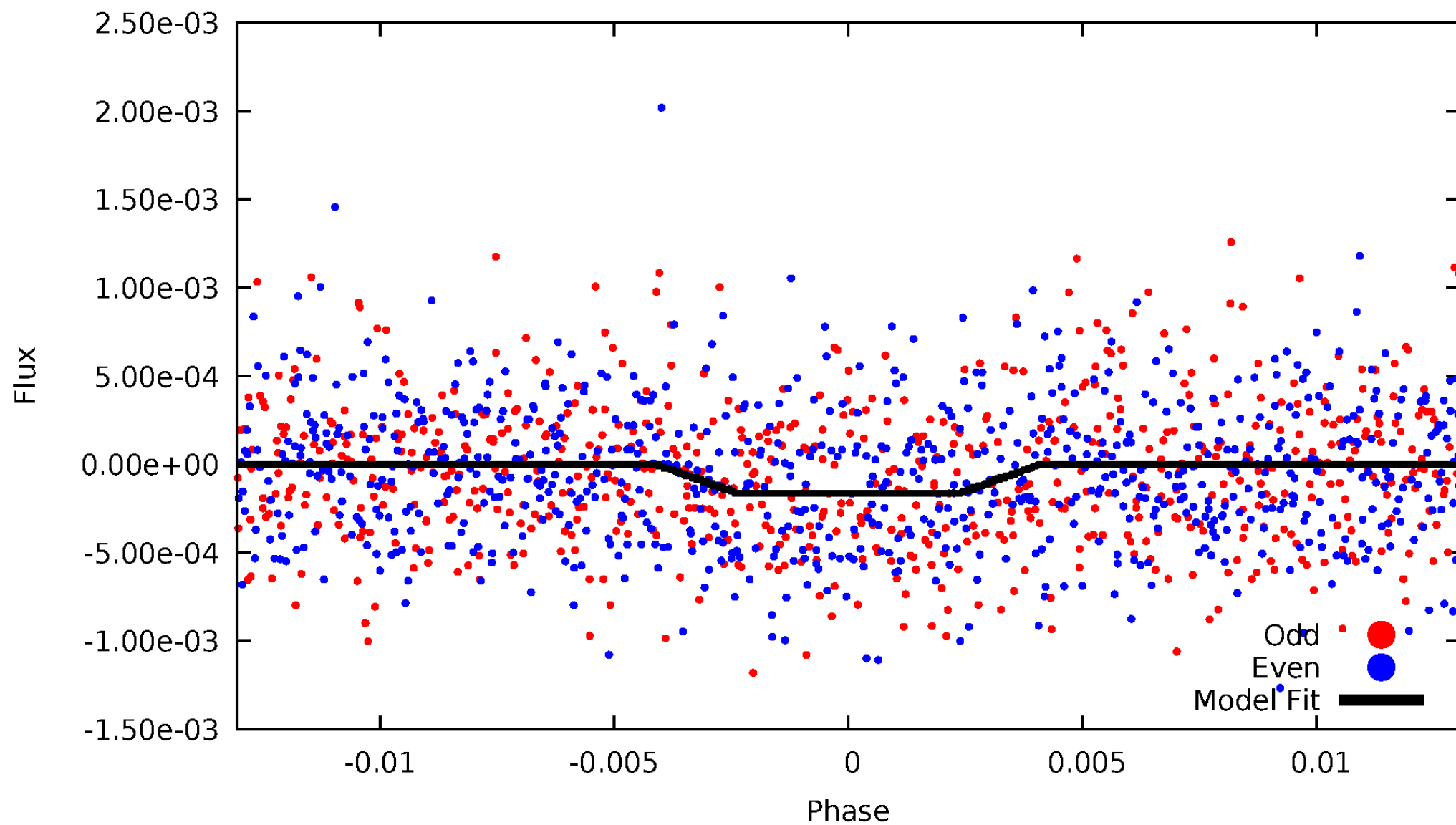
DV Odd/Even

TCE 005877292-01



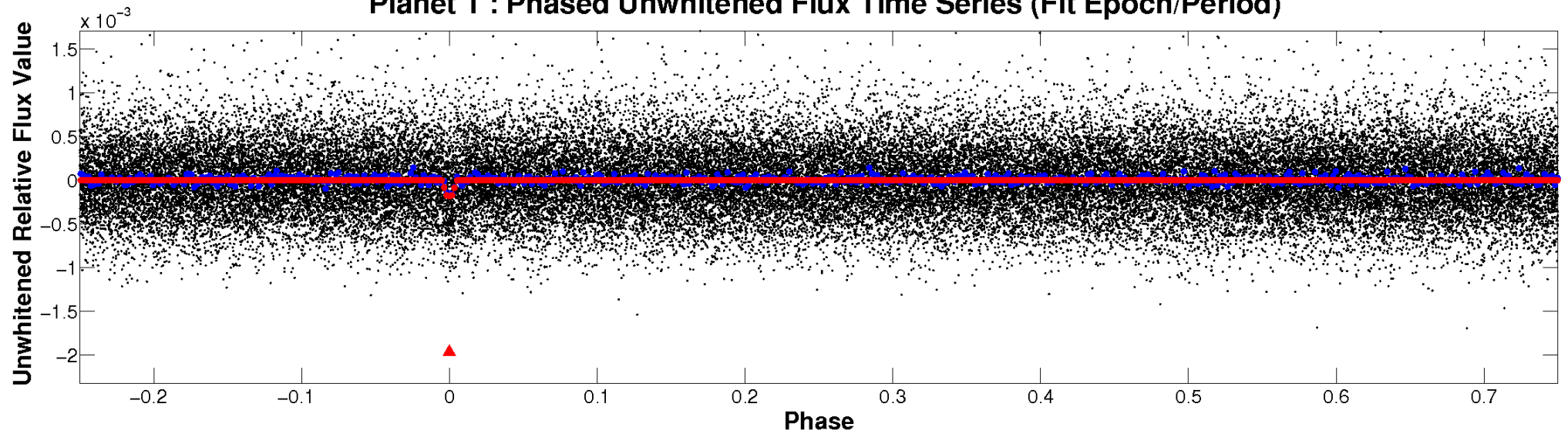
ALT Odd/Even

TCE 005877292-01

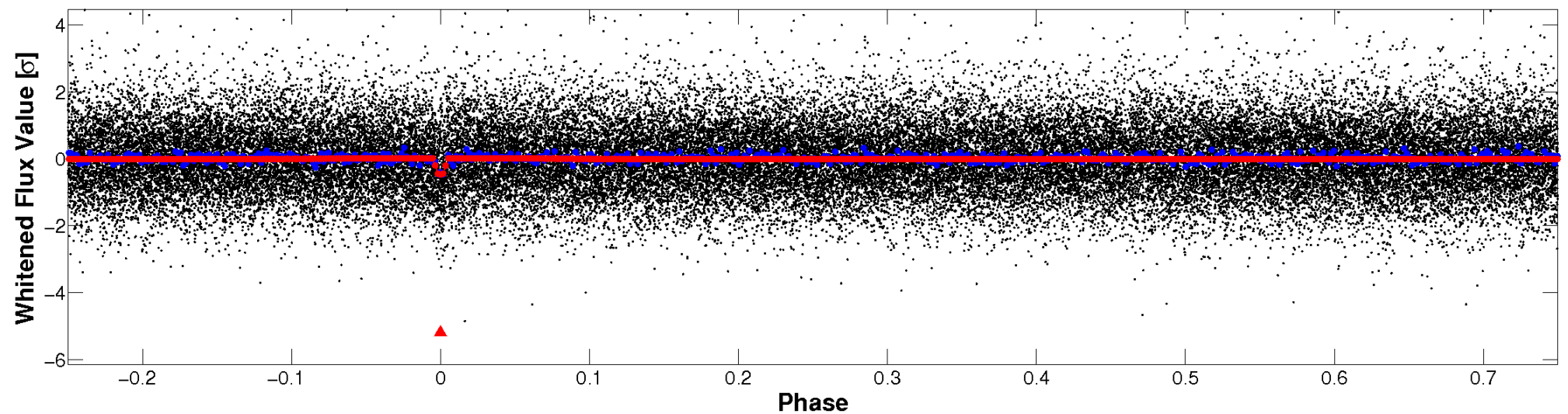


Non-Whitened Vs. Whitened Light Curve

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

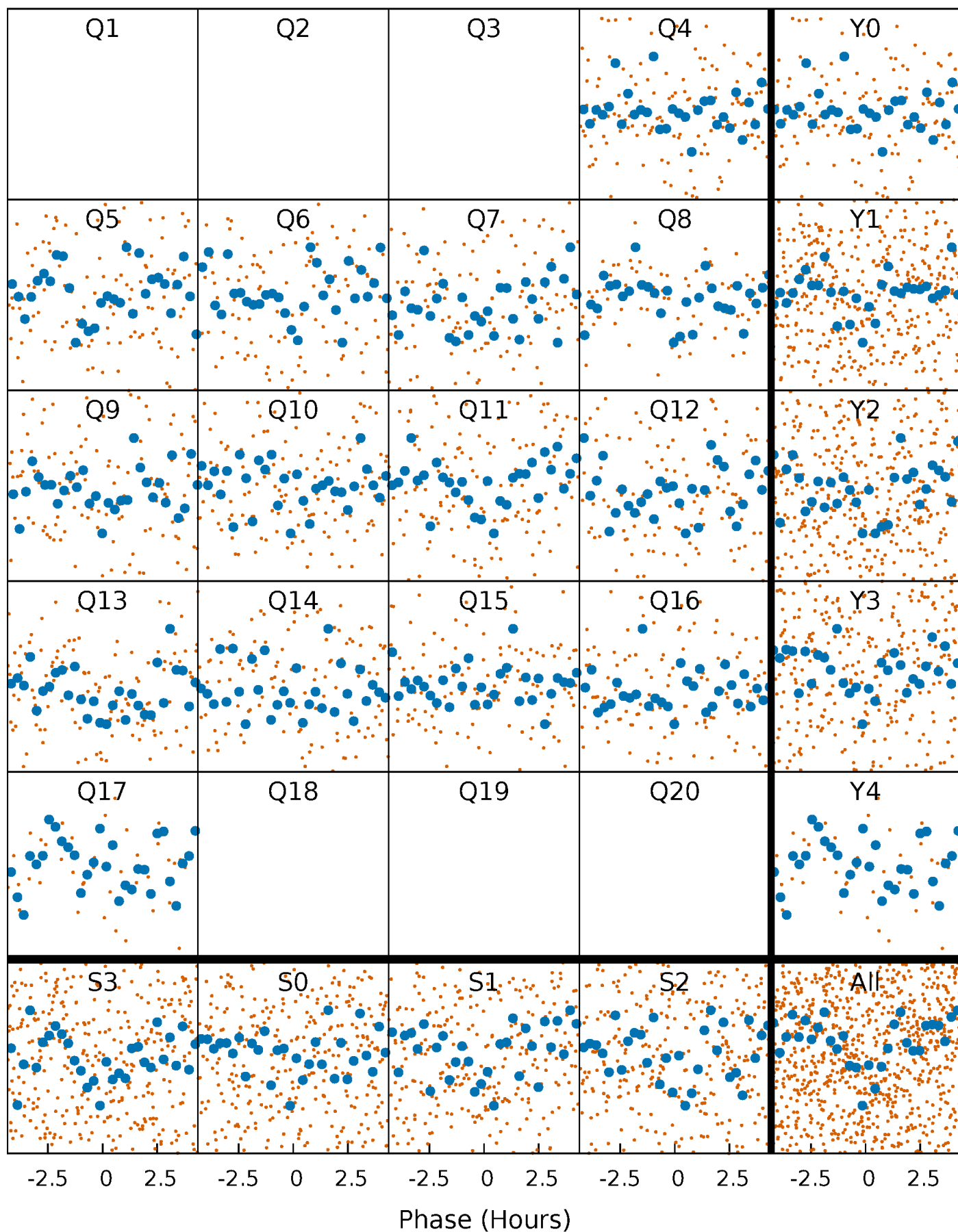


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



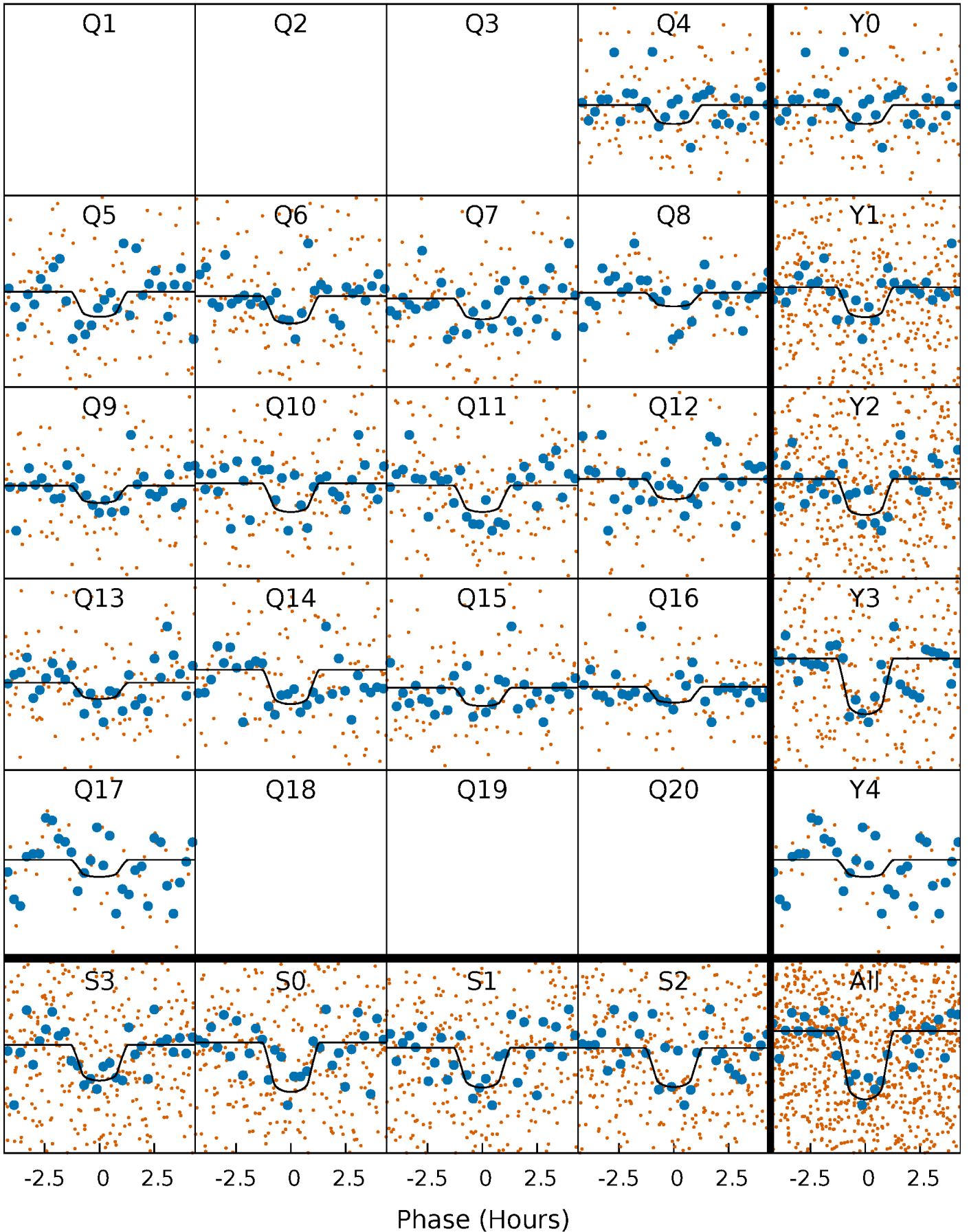
PDC Quarter-Phased Transit Curves

TCE 005877292-01 P= 11.720069 Days $T_0=136.197321$ (BKJD)



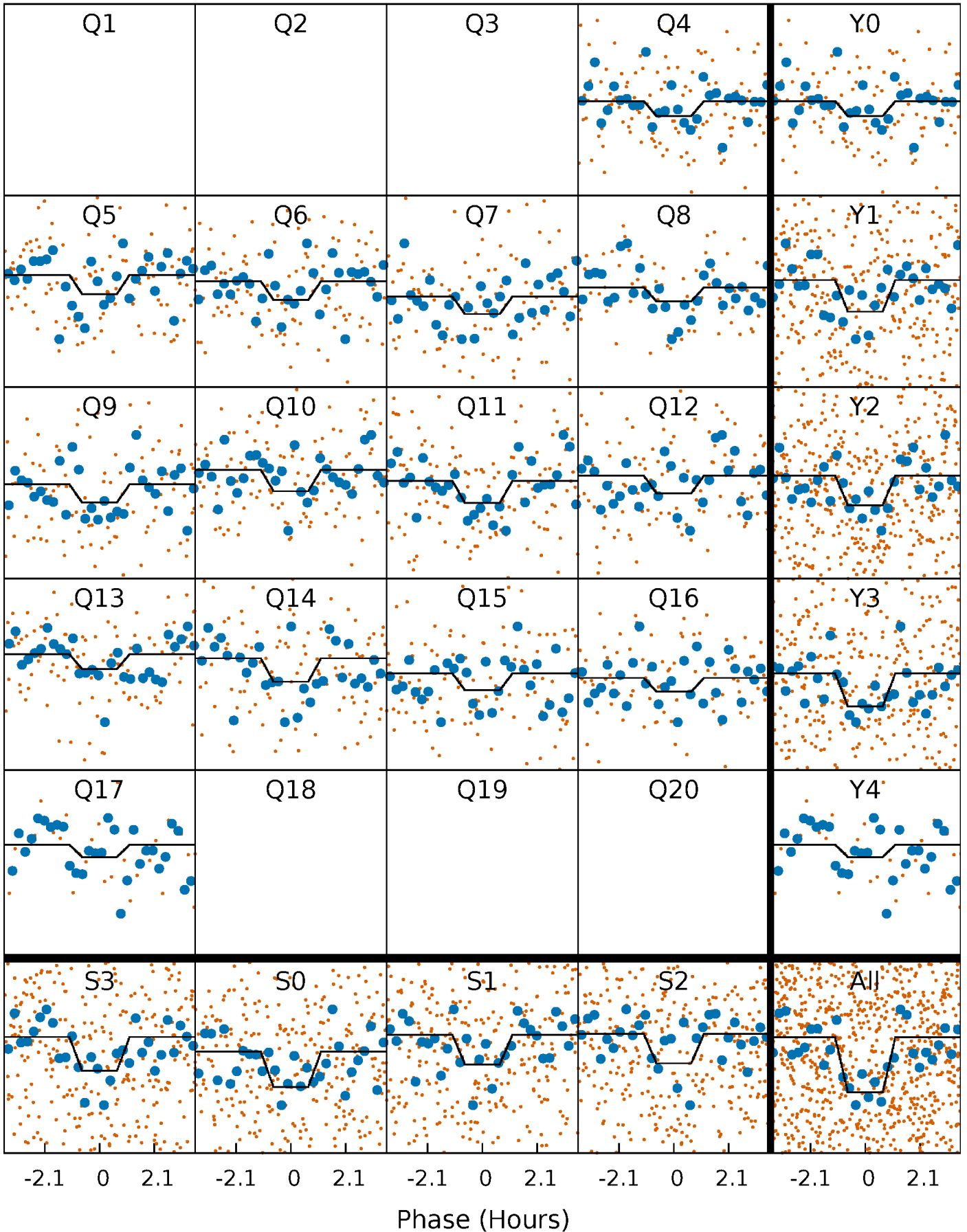
DV Quarter-Phased Transit Curves

TCE 005877292-01 P= 11.720069 Days $T_0=136.197321$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

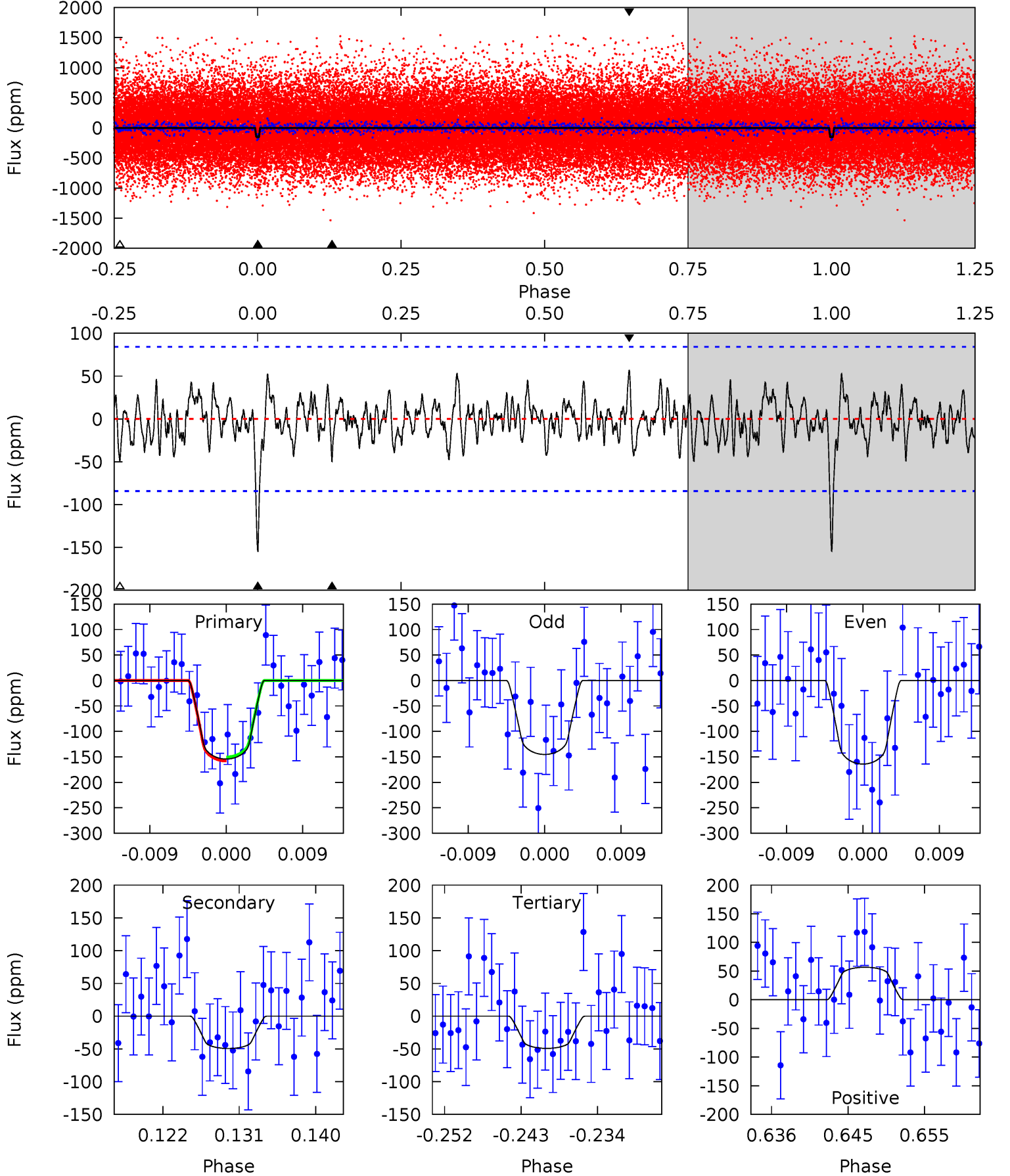
TCE 005877292-01 P= 11.719926 Days $T_0=136.210139$ (BKJD)



DV Model-Shift Uniqueness Test

005877292-01, P = 11.720069 Days, E = 136.197321 Days

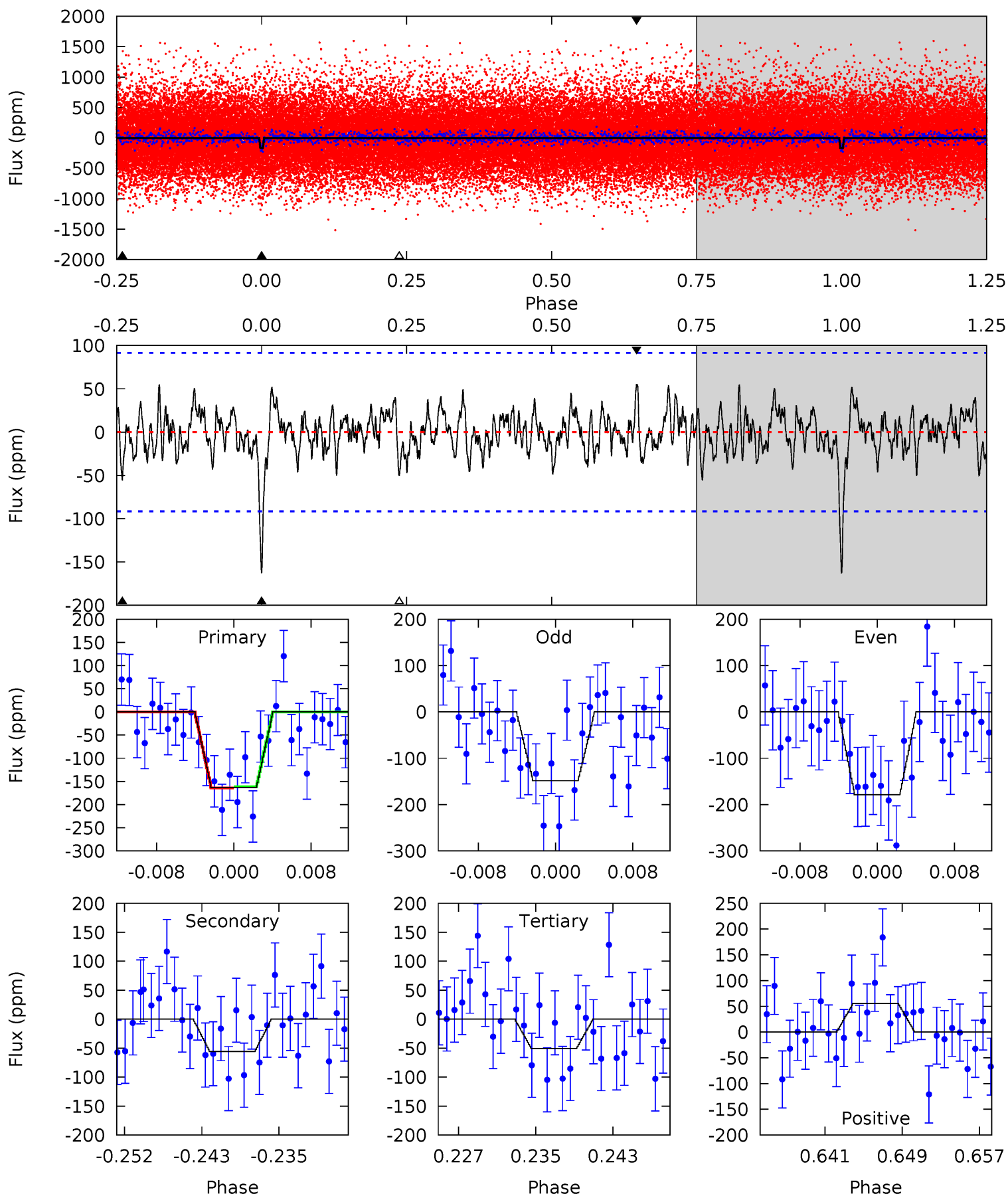
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.23	2.96	2.95	3.39	5.04	2.60	1.12	6.29	5.84	0.01	-0.44	0.57	0.90	0.27	0.23



Alt Model-Shift Uniqueness Test

005877292-01, P = 11.719926 Days, E = 136.210139 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.02	3.09	2.80	3.08	5.07	2.65	1.09	6.22	5.95	0.29	0.02	0.84	0.87	0.25	0.07



Stellar Parameters For KIC 005877292

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6193^{+194}_{-259}	$4.434^{+0.056}_{-0.224}$	$0.000^{+0.250}_{-0.300}$	$1.067^{+0.366}_{-0.122}$	$1.127^{+0.148}_{-0.164}$	$1.307^{+0.394}_{-0.712}$
	+3%/-4%	+1%/-5%	+inf%/-inf%	+34%/-11%	+13%/-15%	+30%/-54%
Source	KIC0	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 005877292-01 / KOI 7744.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-49 ± 17	$2.10^{+1.67}_{-1.30}$	1244^{+94}_{-72}	4195^{+2242}_{-816}	65^{+394}_{-47}
Alt.	-56 ± 18	$1.88^{+1.58}_{-1.19}$	1242^{+107}_{-67}	4444^{+2852}_{-871}	87^{+666}_{-63}

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

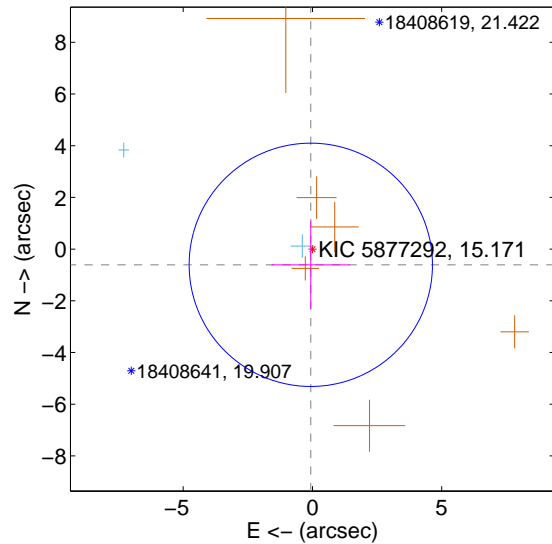
Supplemental centroid analysis for 005877292-01. Kepler magnitude: 15.17. Transit SNR 8.09

There are 2 quarters with good PRF difference image offsets

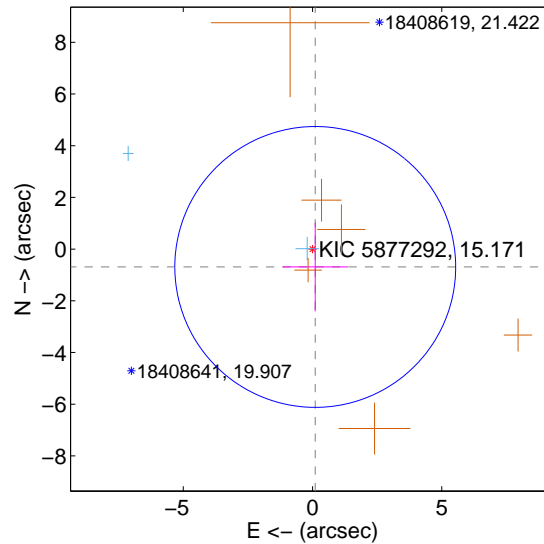
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.611 ± 1.568	0.39	0.064 ± 1.518	-0.608 ± 1.699
PRF-fit source offset from KIC position	0.698 ± 1.811	0.39	-0.105 ± 1.266	-0.690 ± 1.719
photometric centroid source offset	2.85 ± 1.65	1.73	-0.30 ± 1.71	2.84 ± 1.65

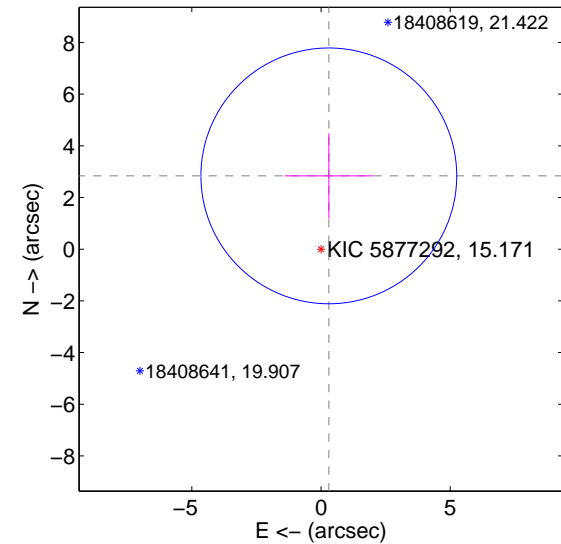
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

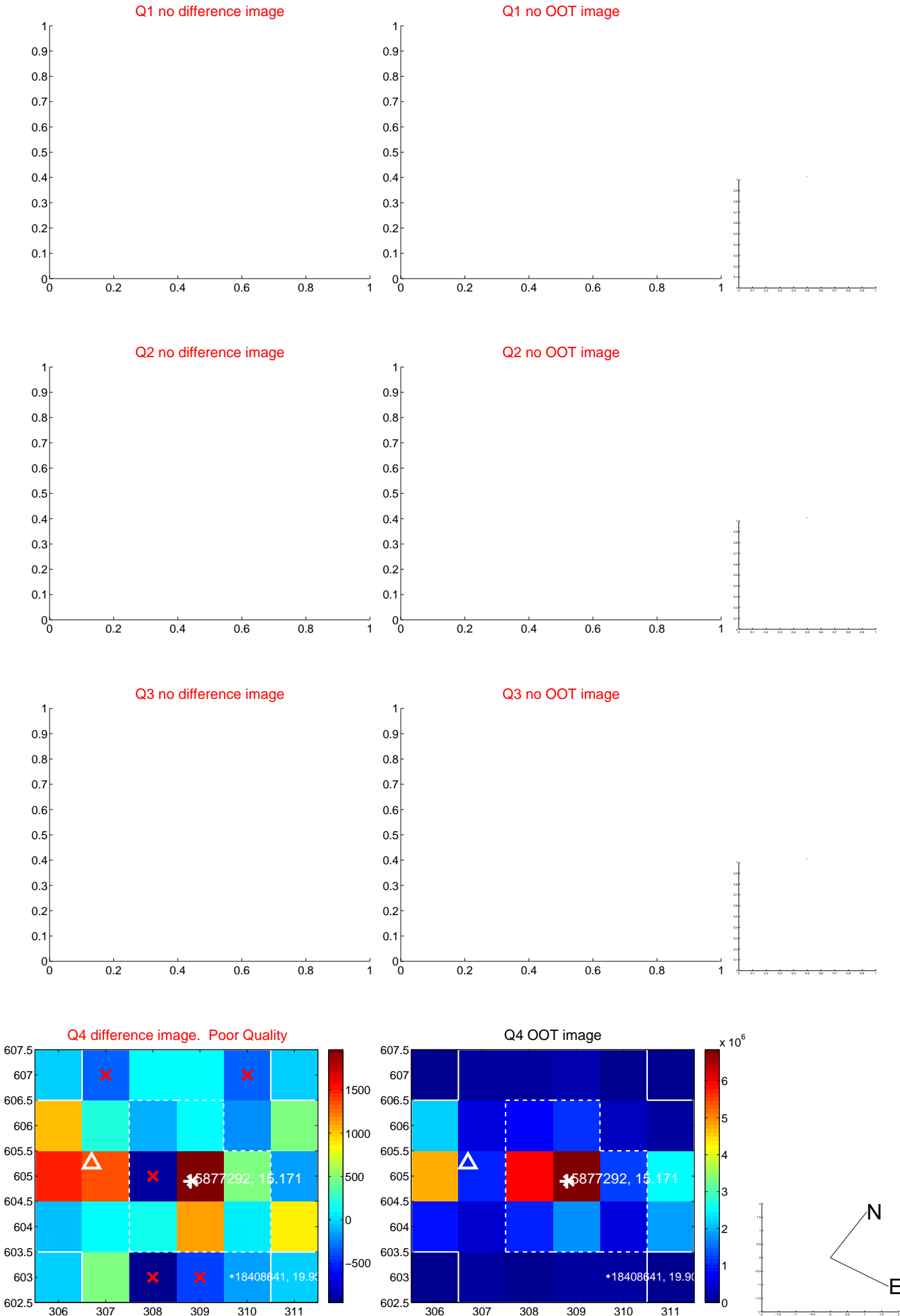


offset from photometric centroids

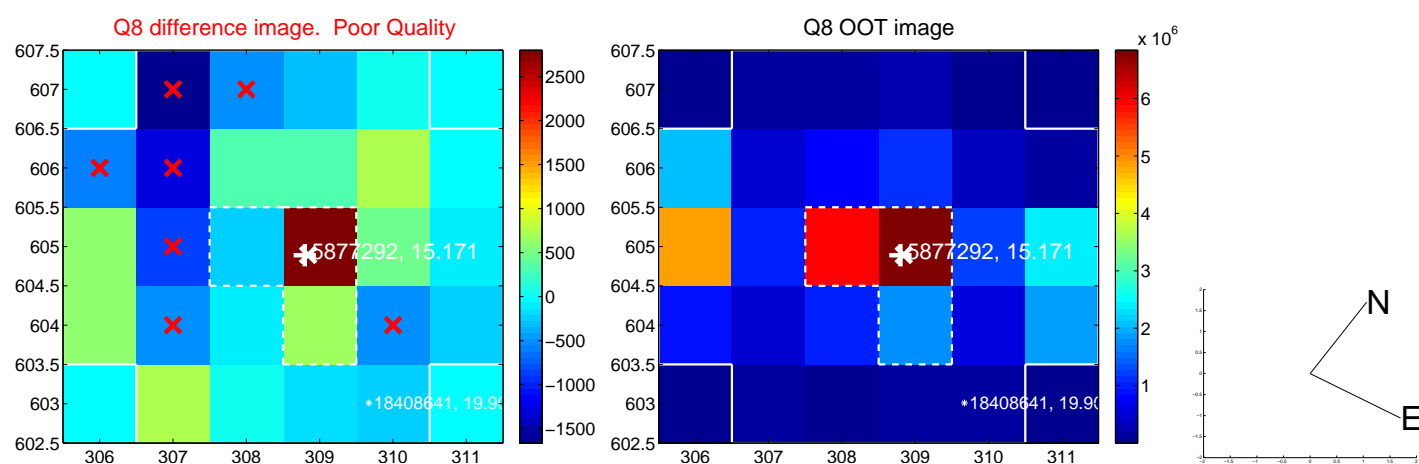
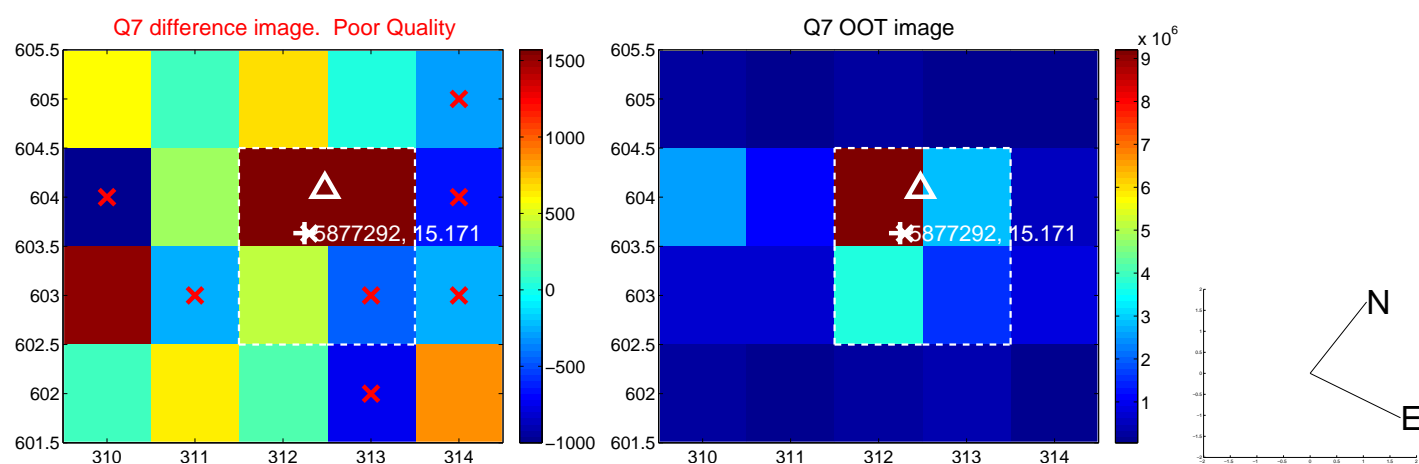
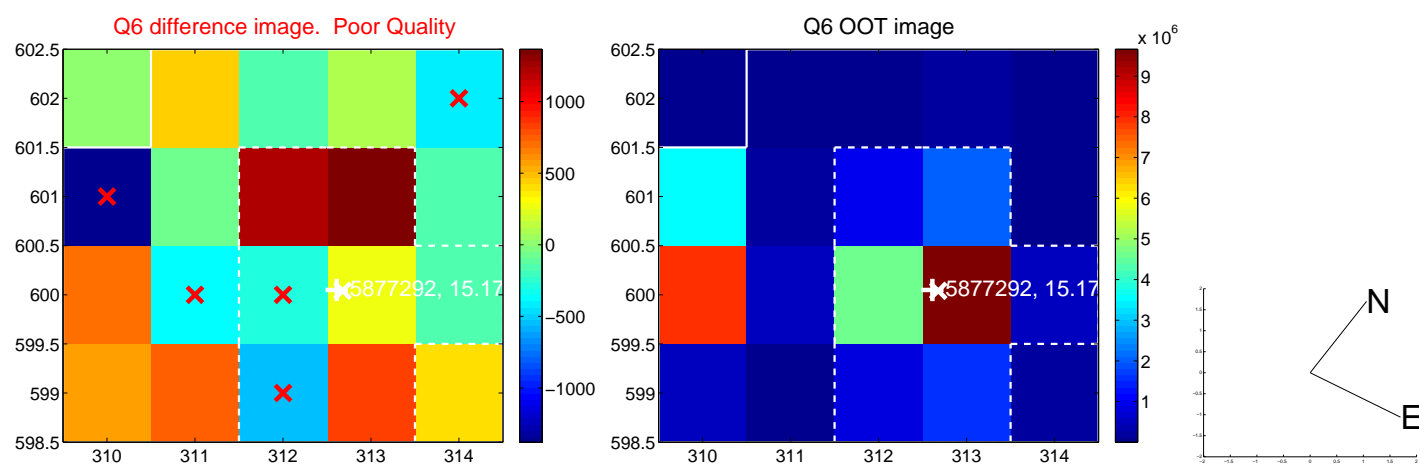
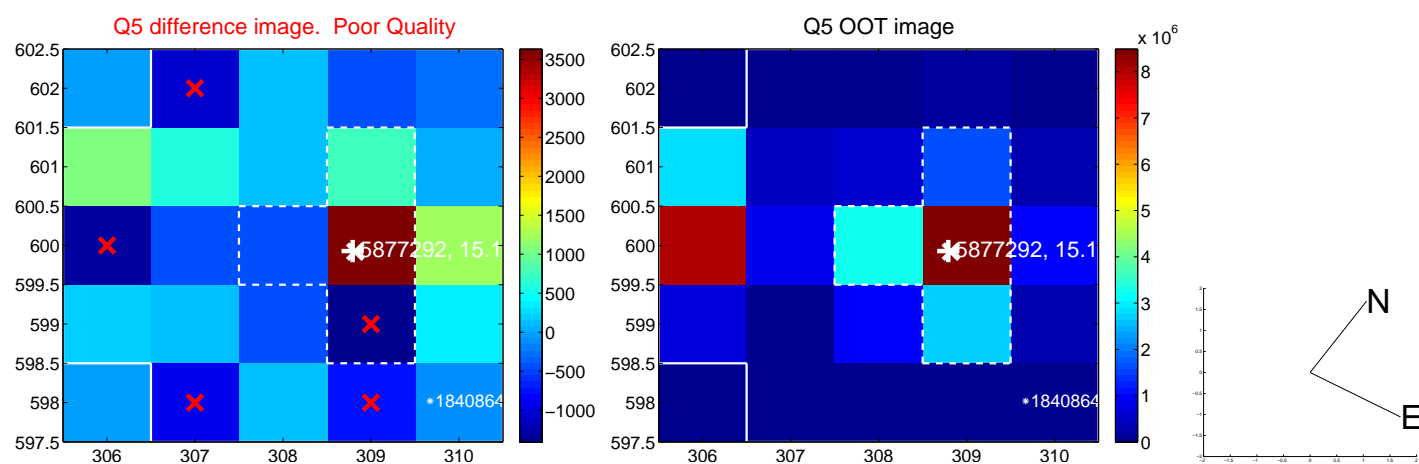


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

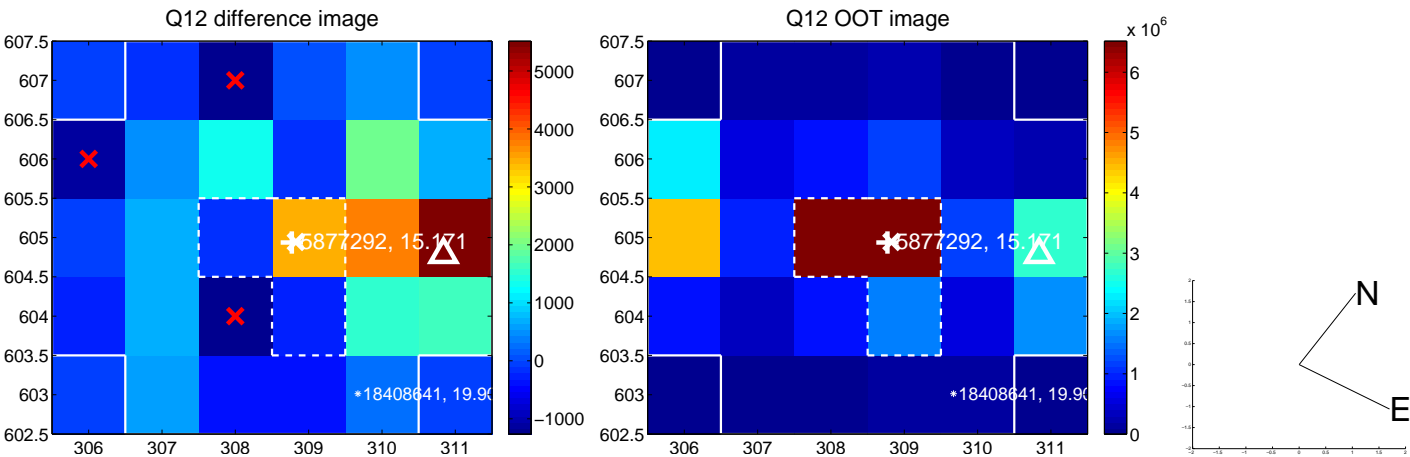
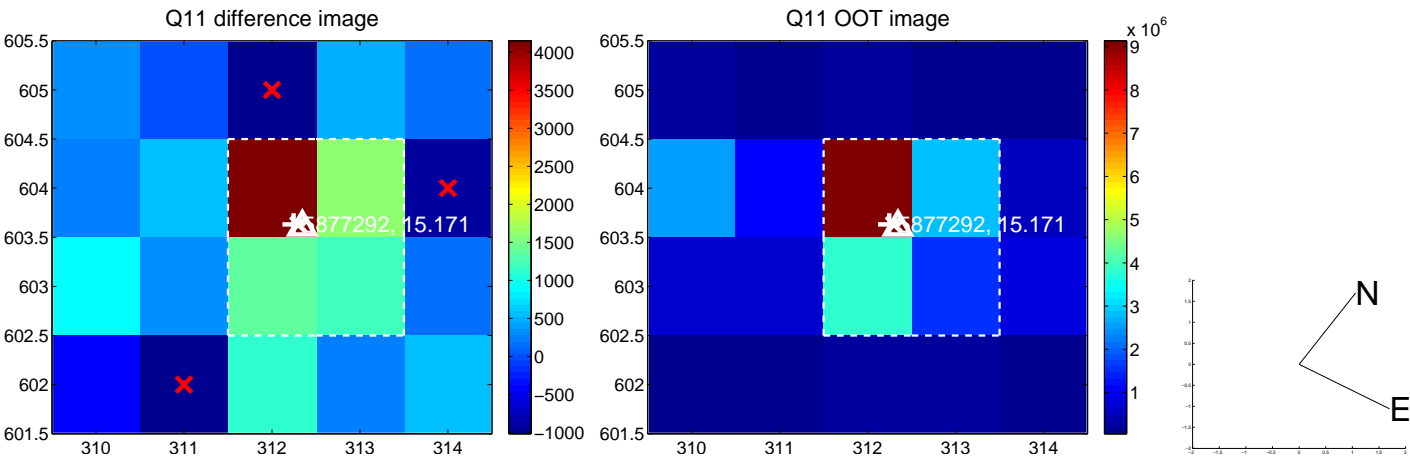
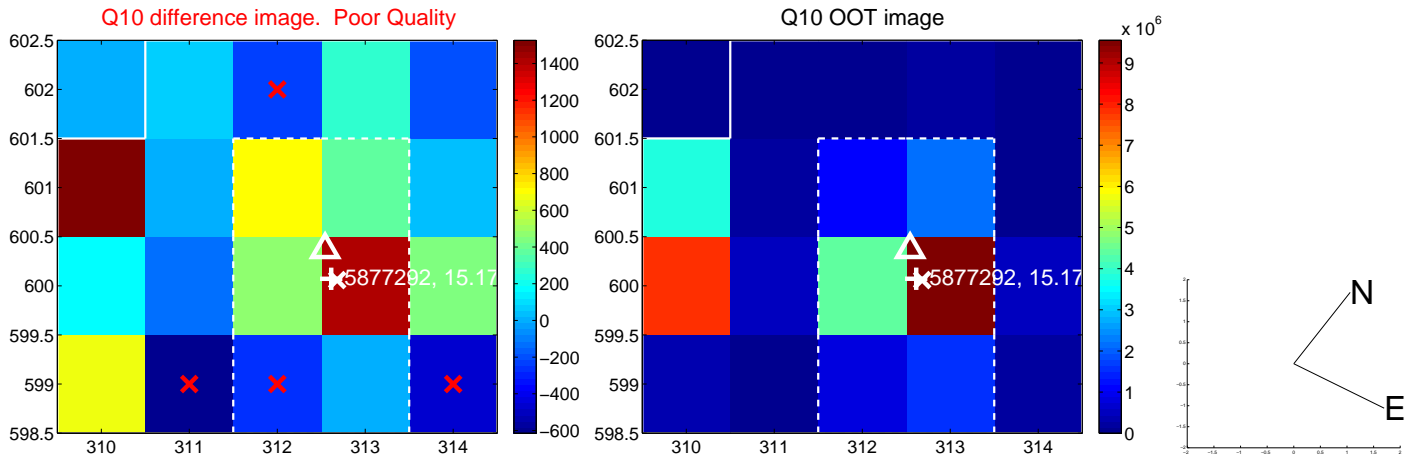
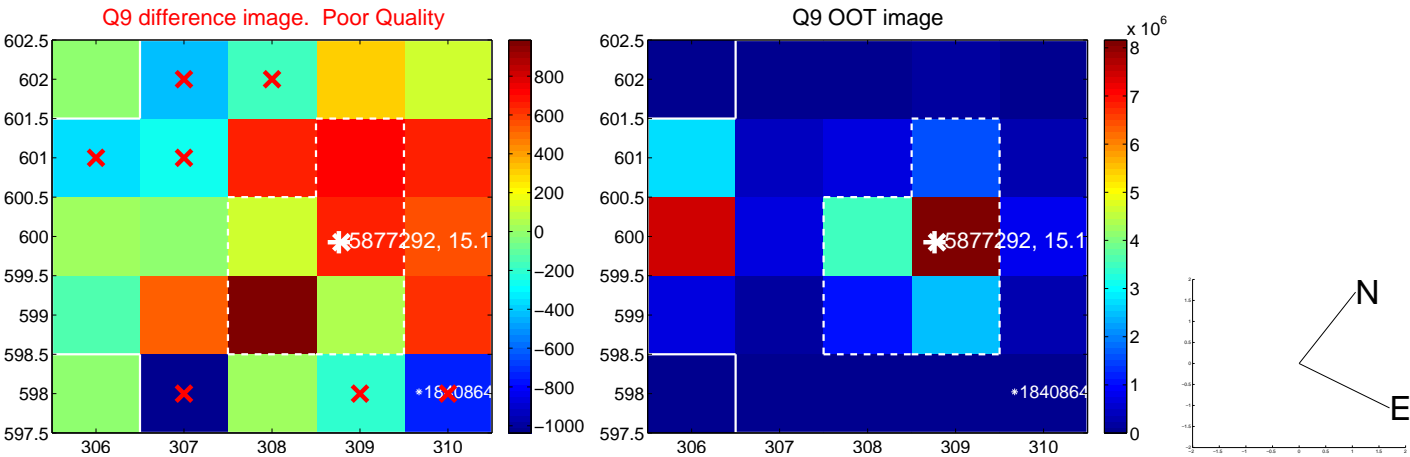
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



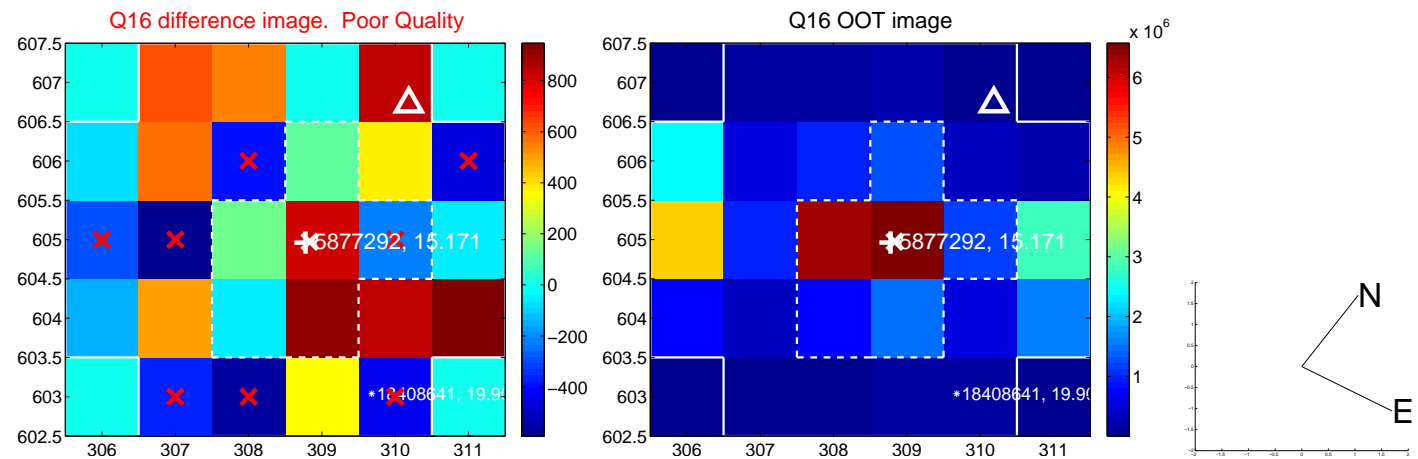
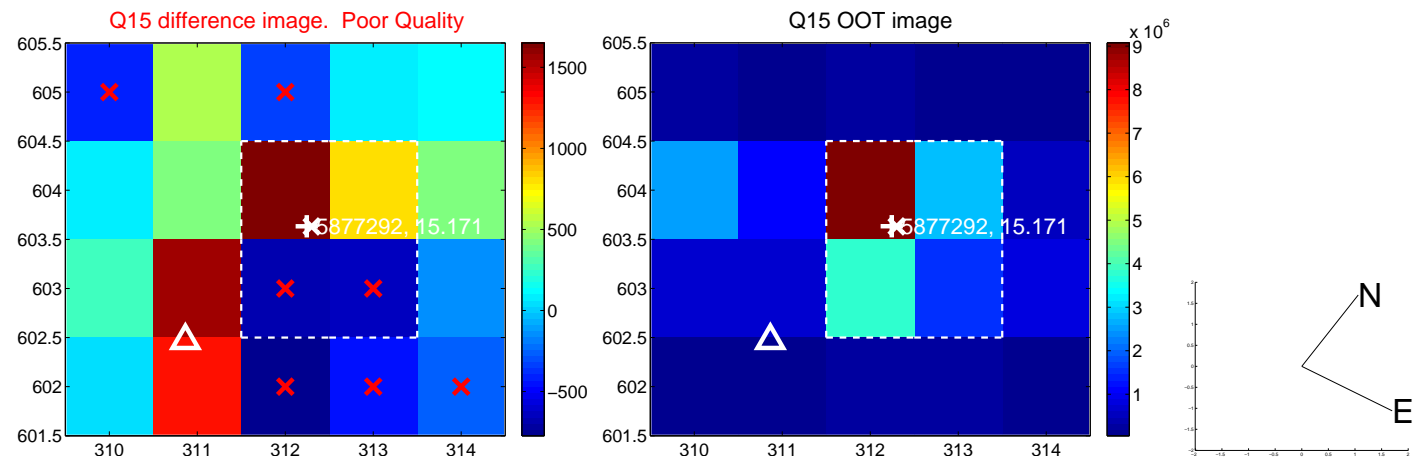
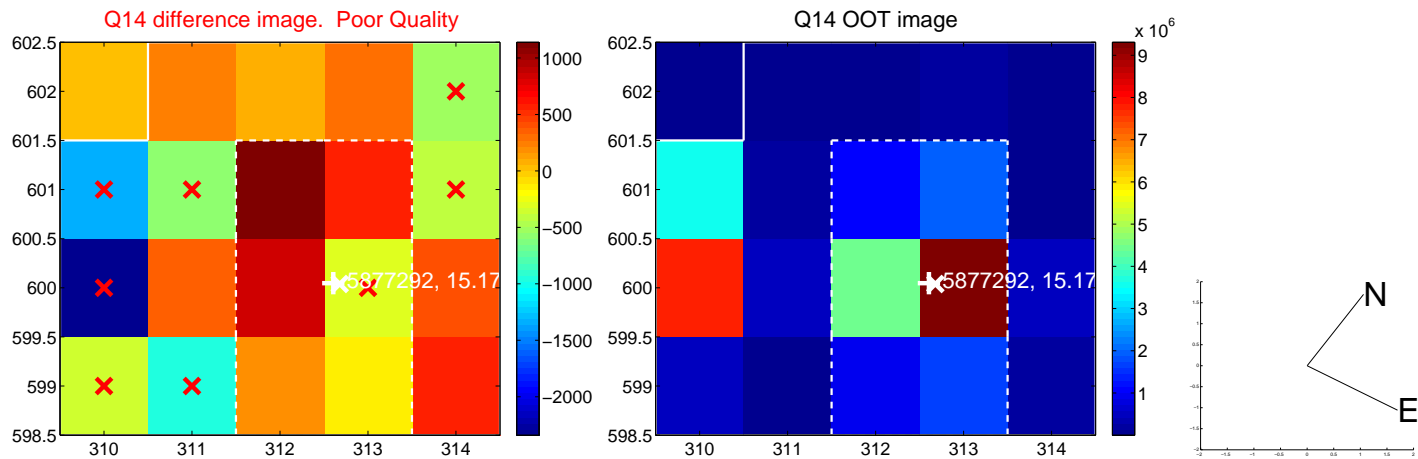
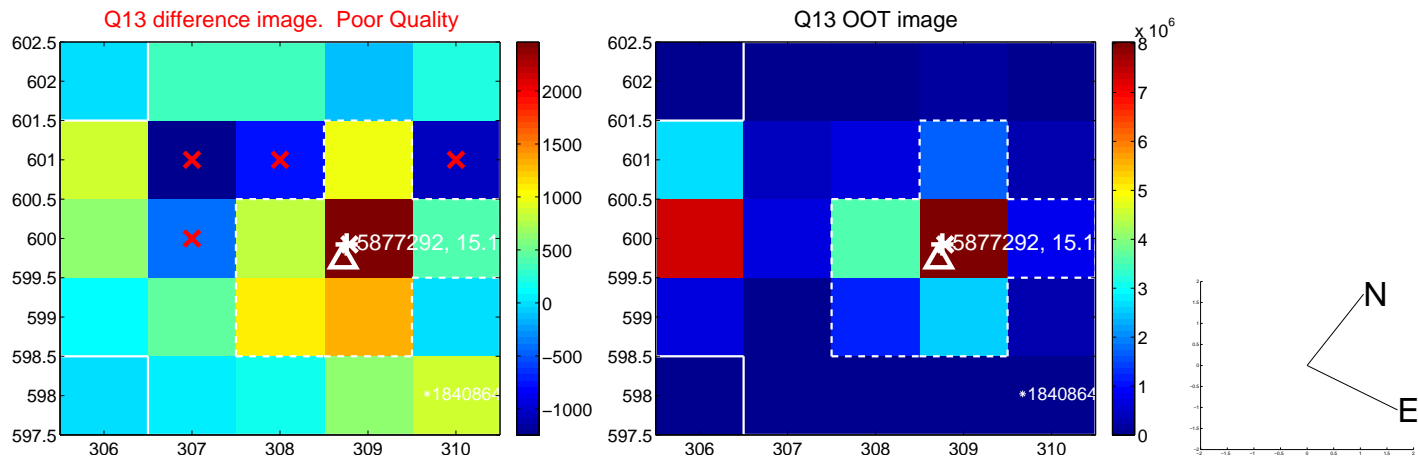
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



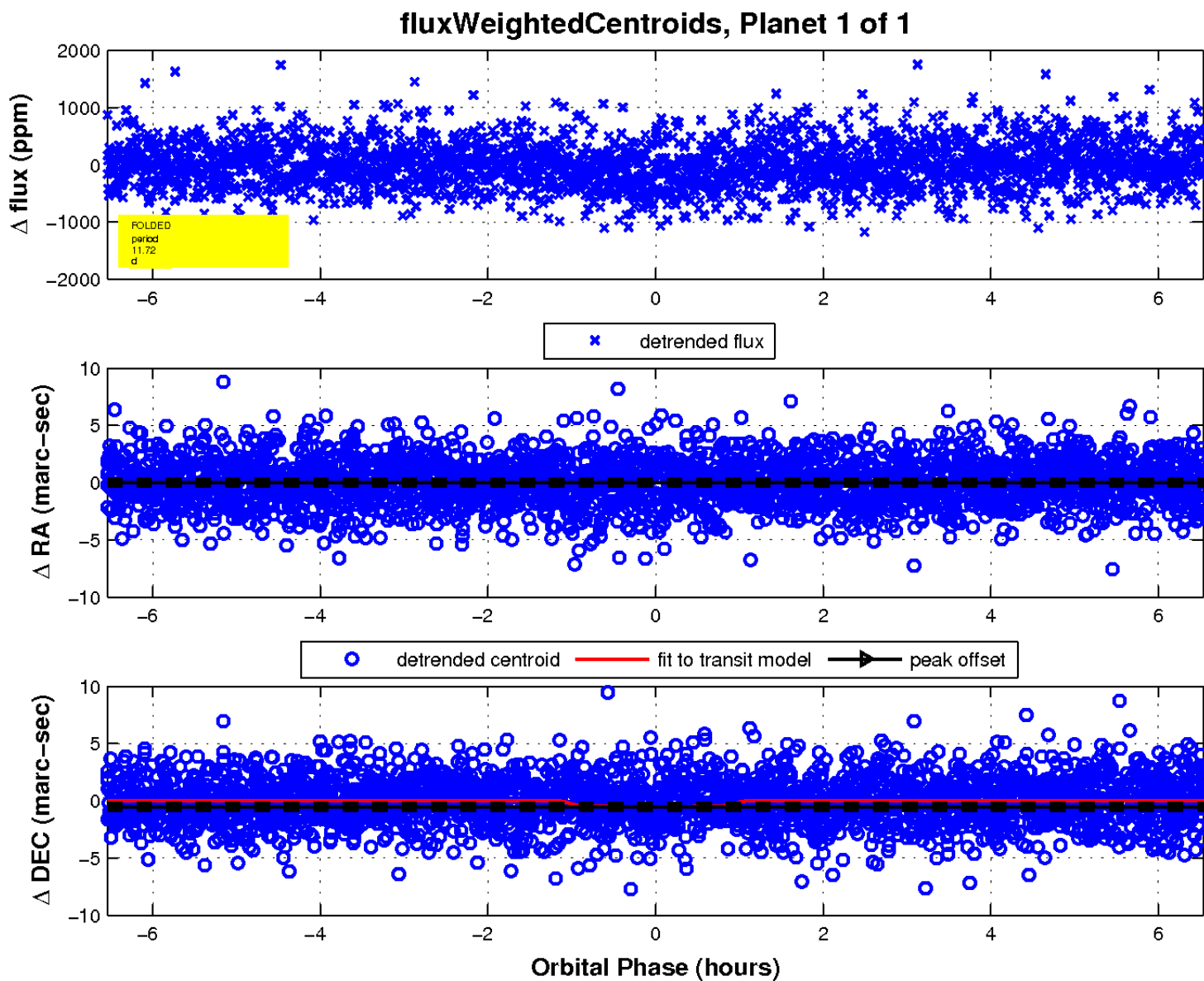
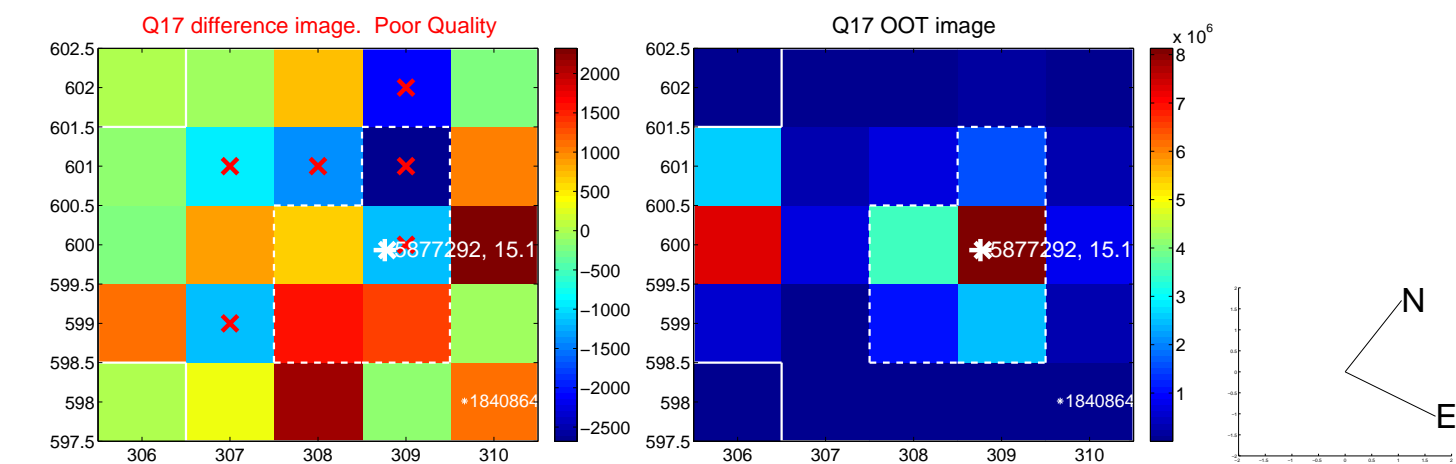
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UKIRT Image

