

KIC 008188059

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})
008188059-01	OBS	No	1.574800	132.963205	29.7	2.462	7.8	1.8	0.66	4301	0.37	254.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008188059-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—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.

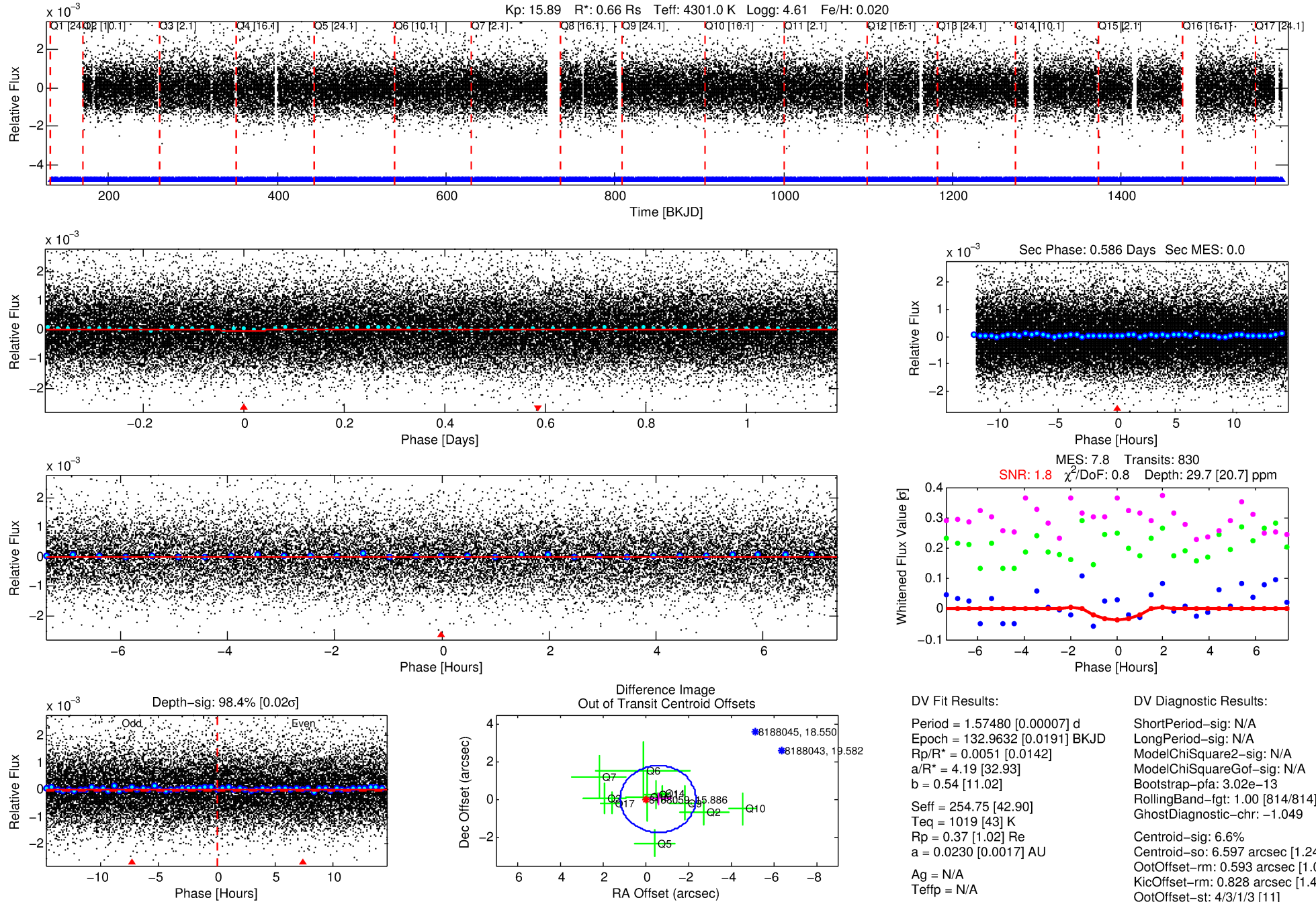
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008188059-01

No Significant Match Found

DV One-Page Summary

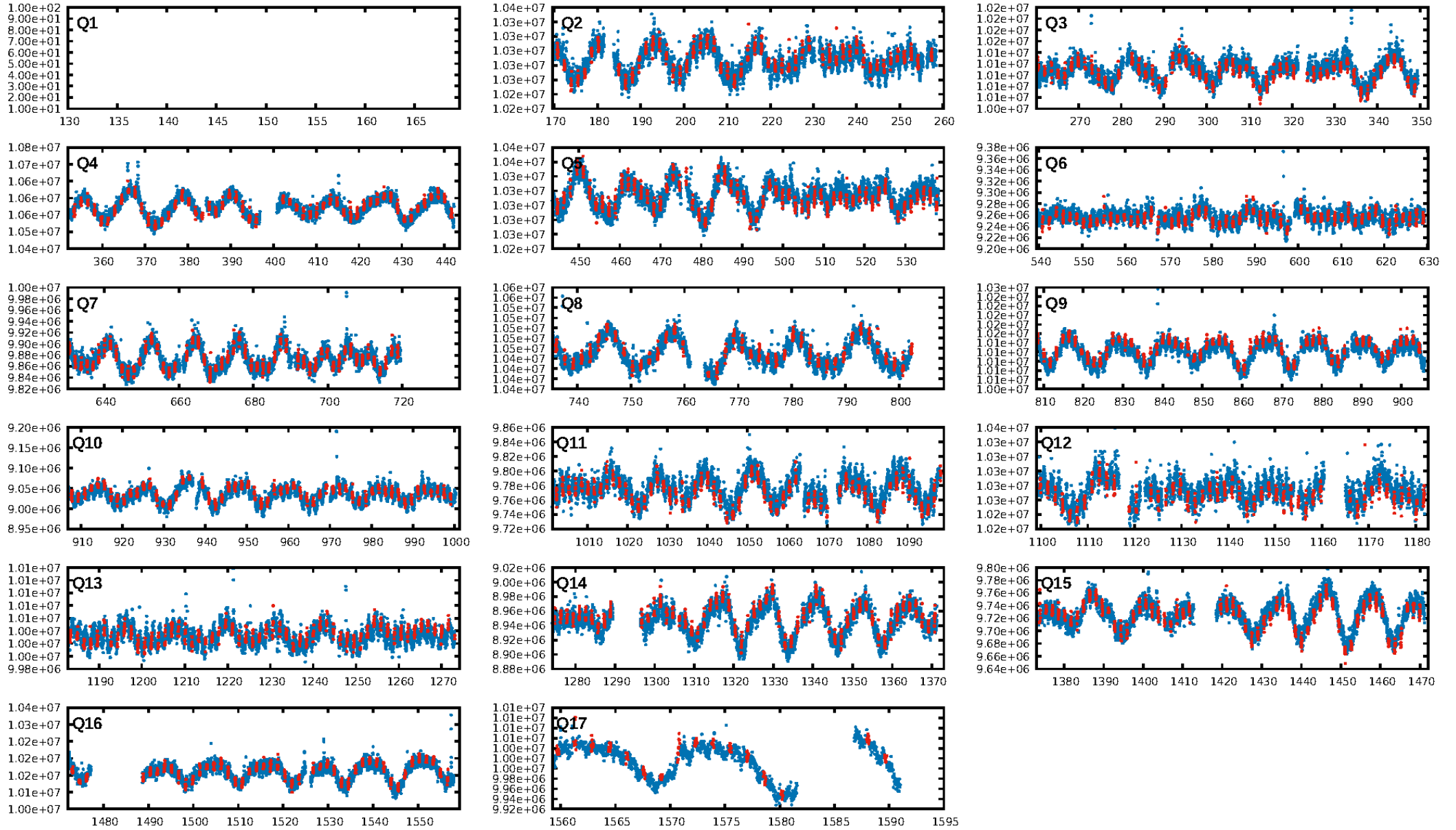
KIC: 8188059 Candidate: 1 of 1 Period: 1.575 d



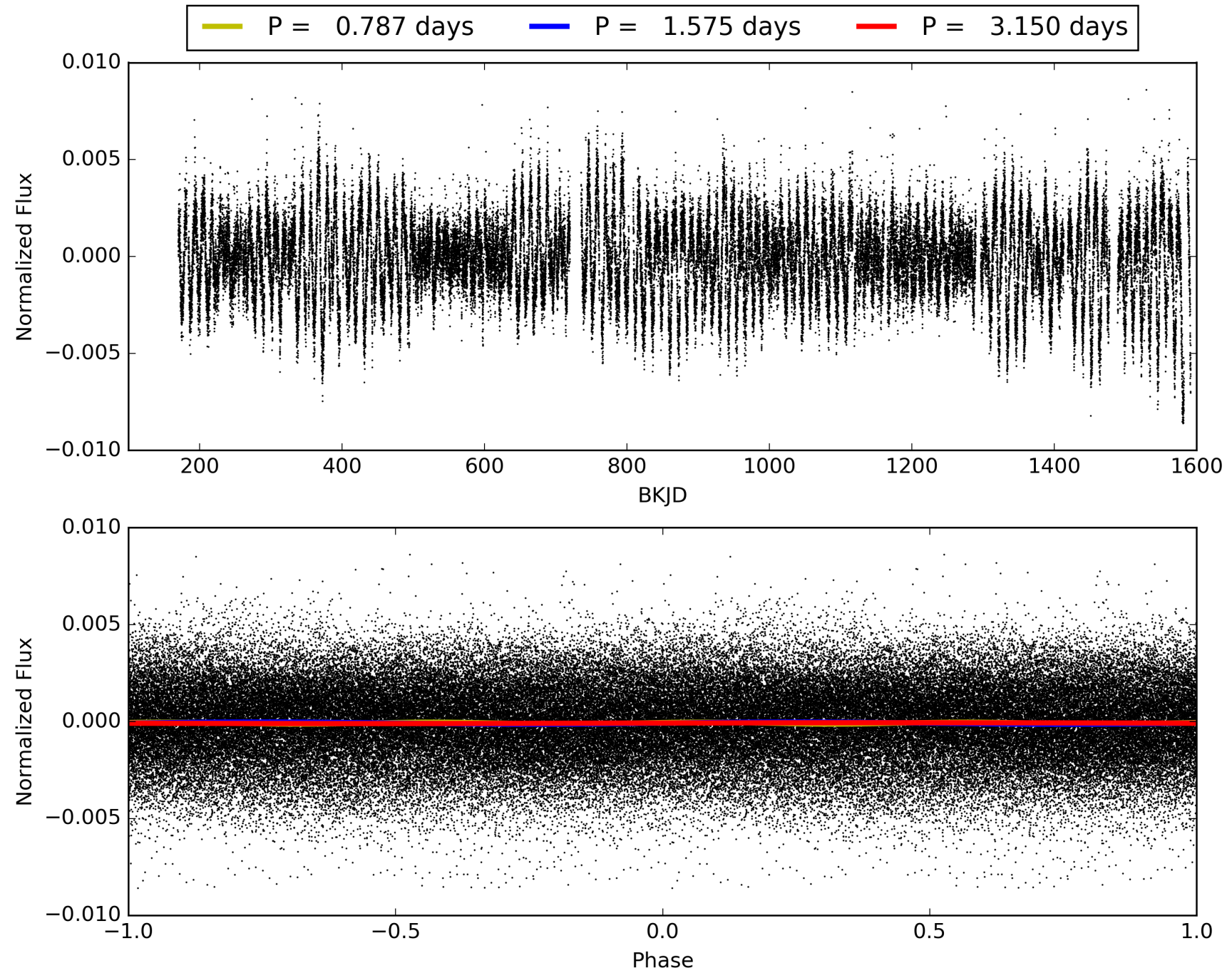
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:15:25 Z

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

TCE 008188059-01, PDC Light Curves

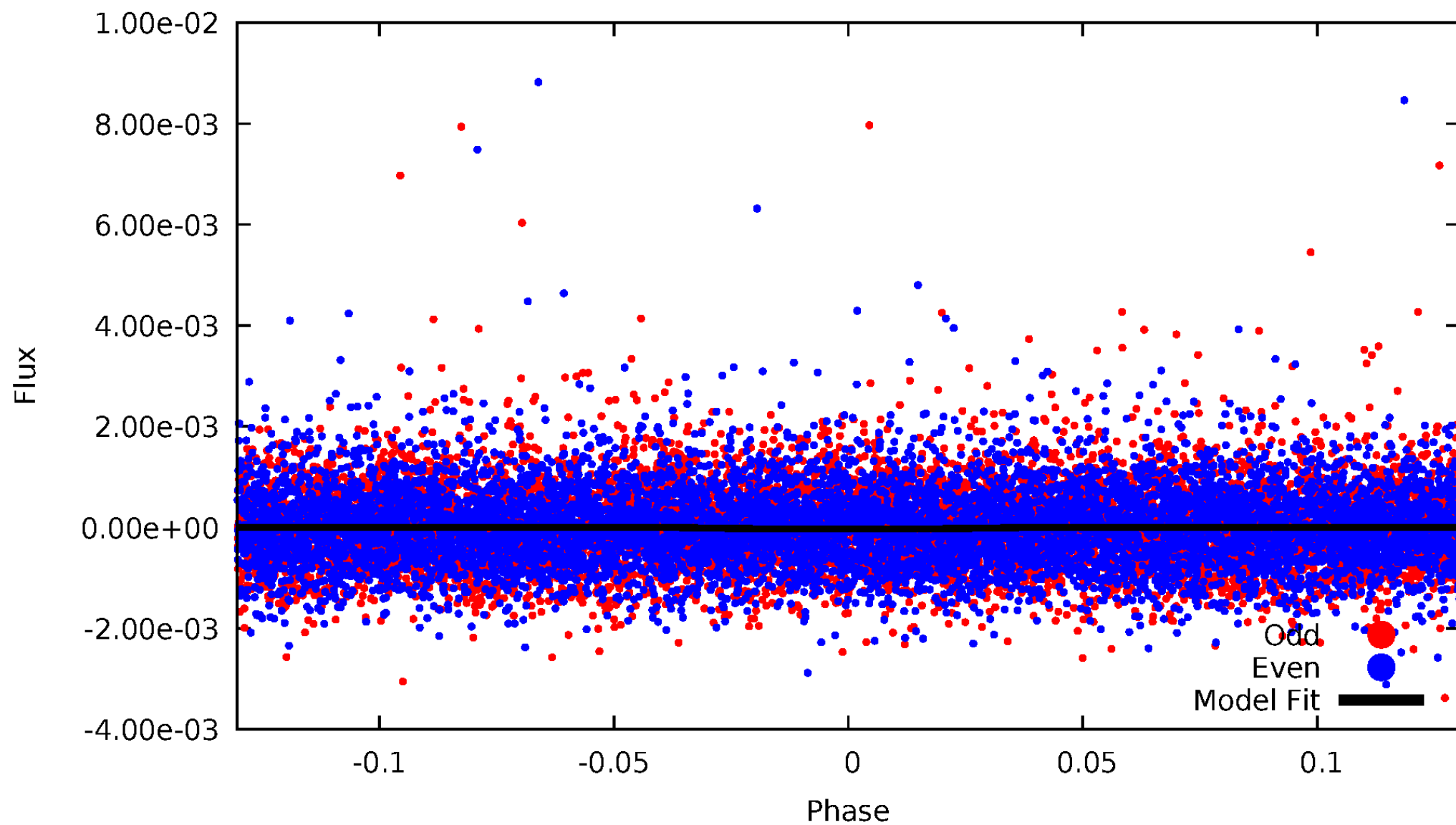


TCE 008188059-01



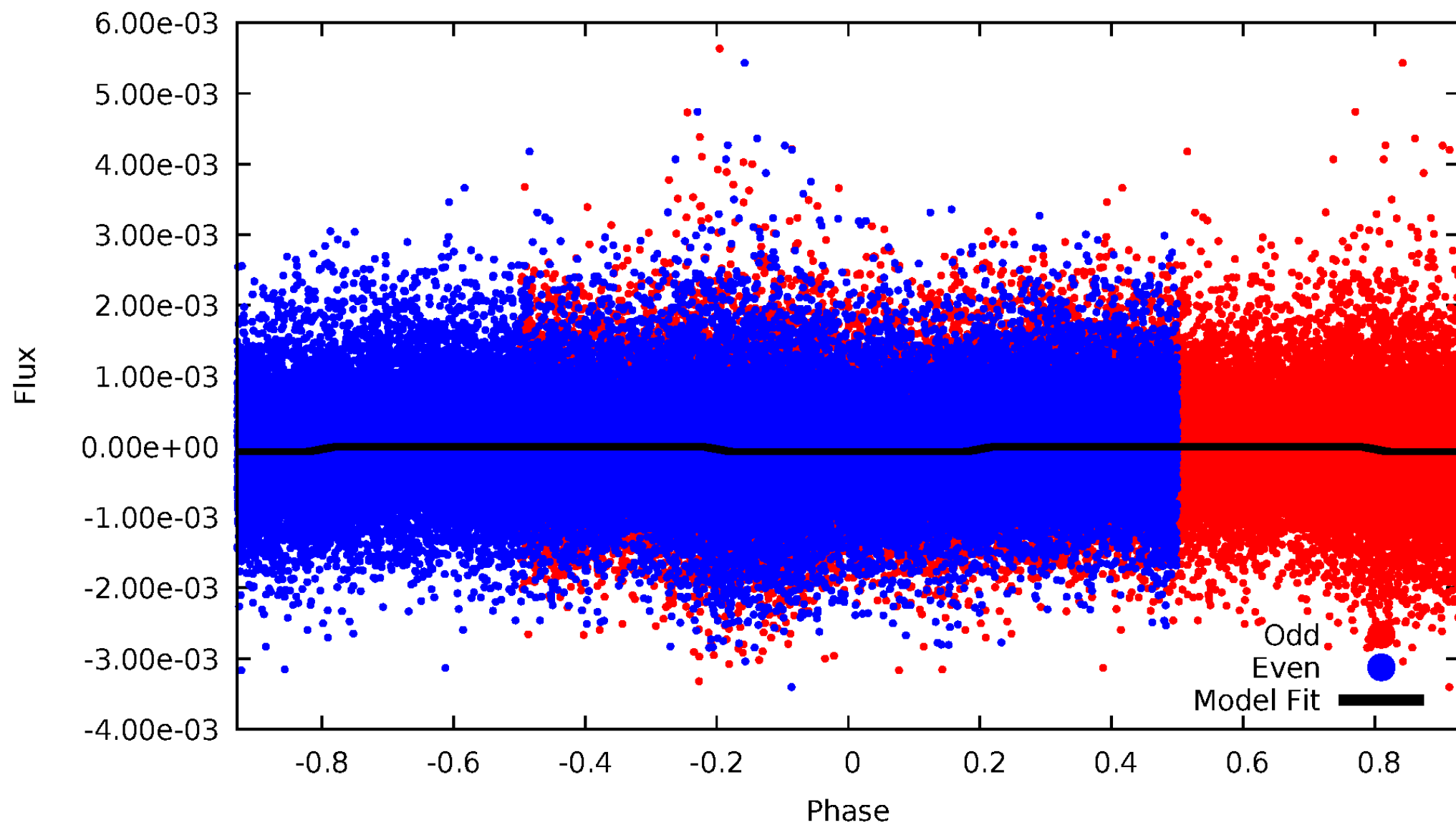
DV Odd/Even

TCE 008188059-01



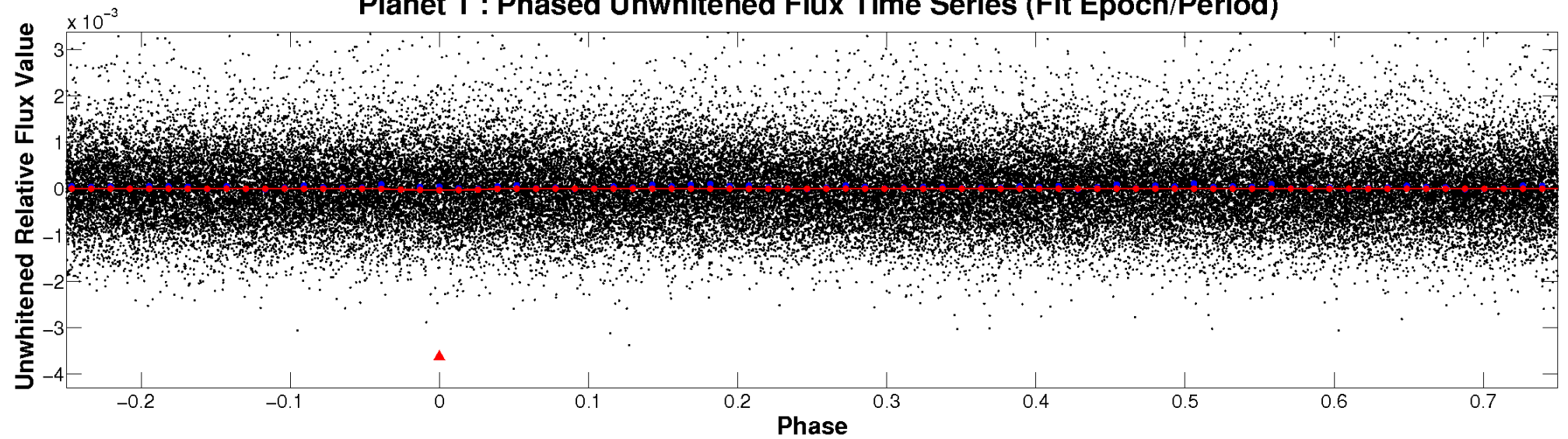
ALT Odd/Even

TCE 008188059-01

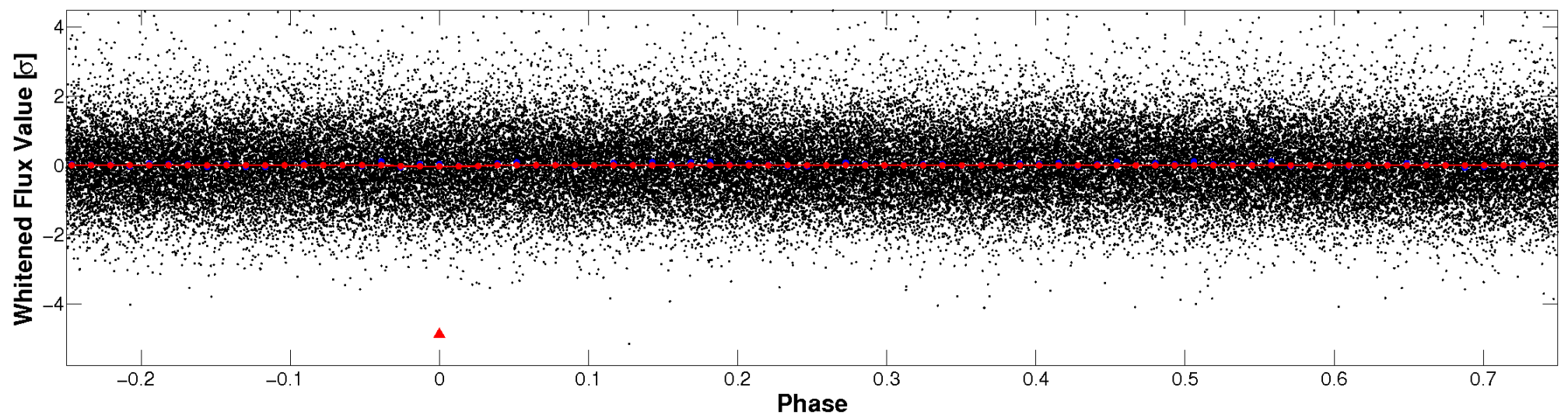


Non-Whitened Vs. Whitened Light Curve

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

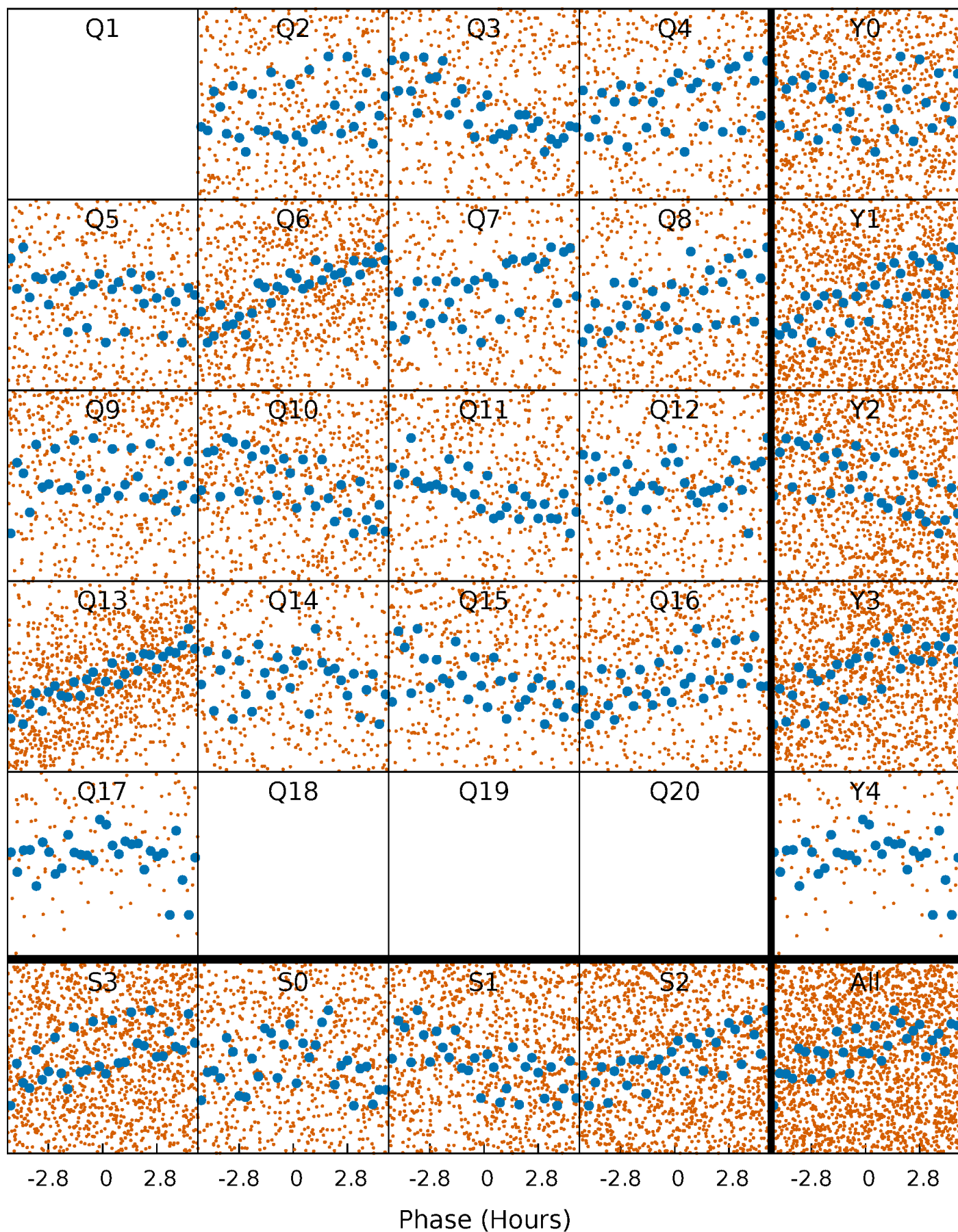


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



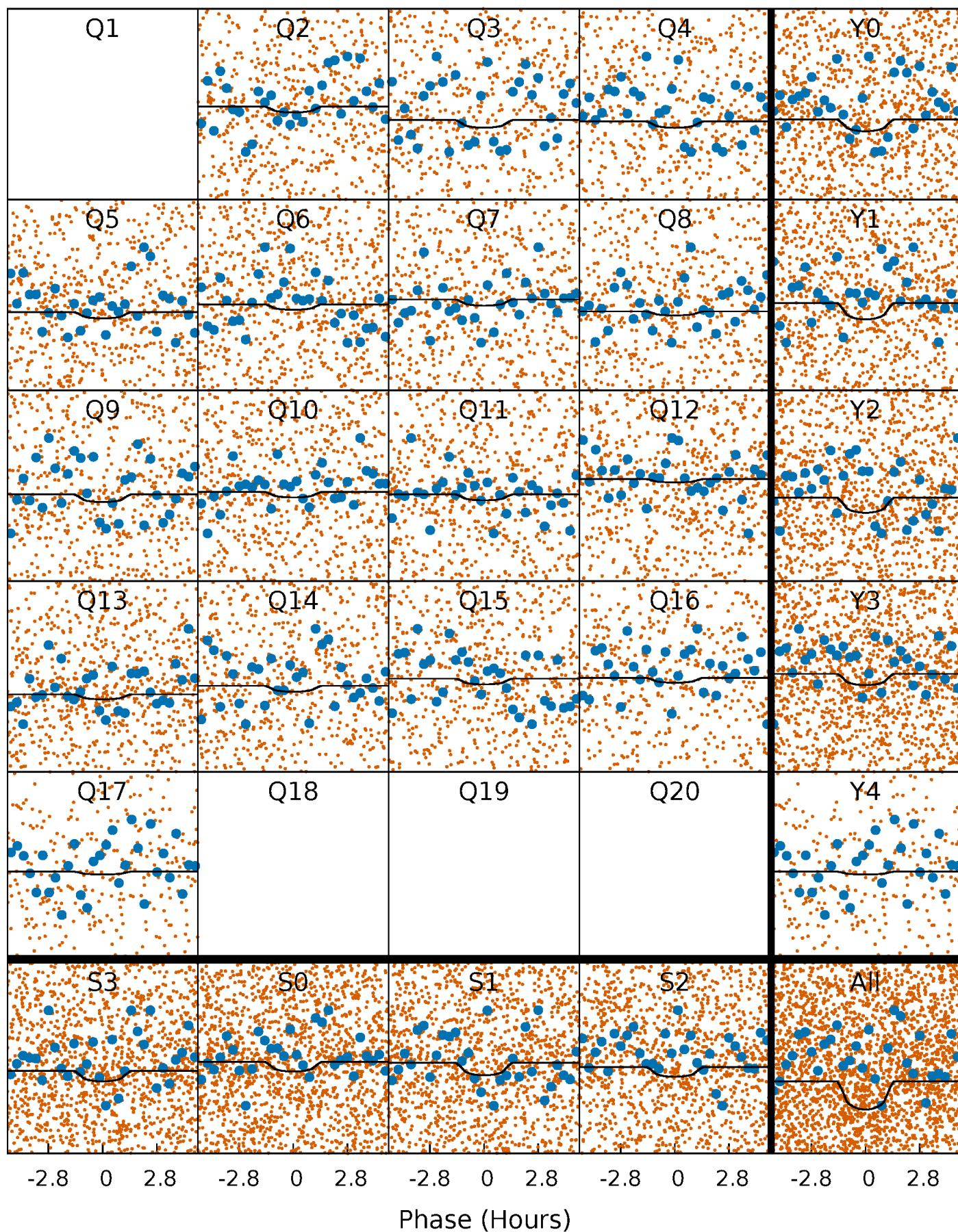
PDC Quarter-Phased Transit Curves

TCE 008188059-01 P= 1.574800 Days $T_0=132.963205$ (BKJD)



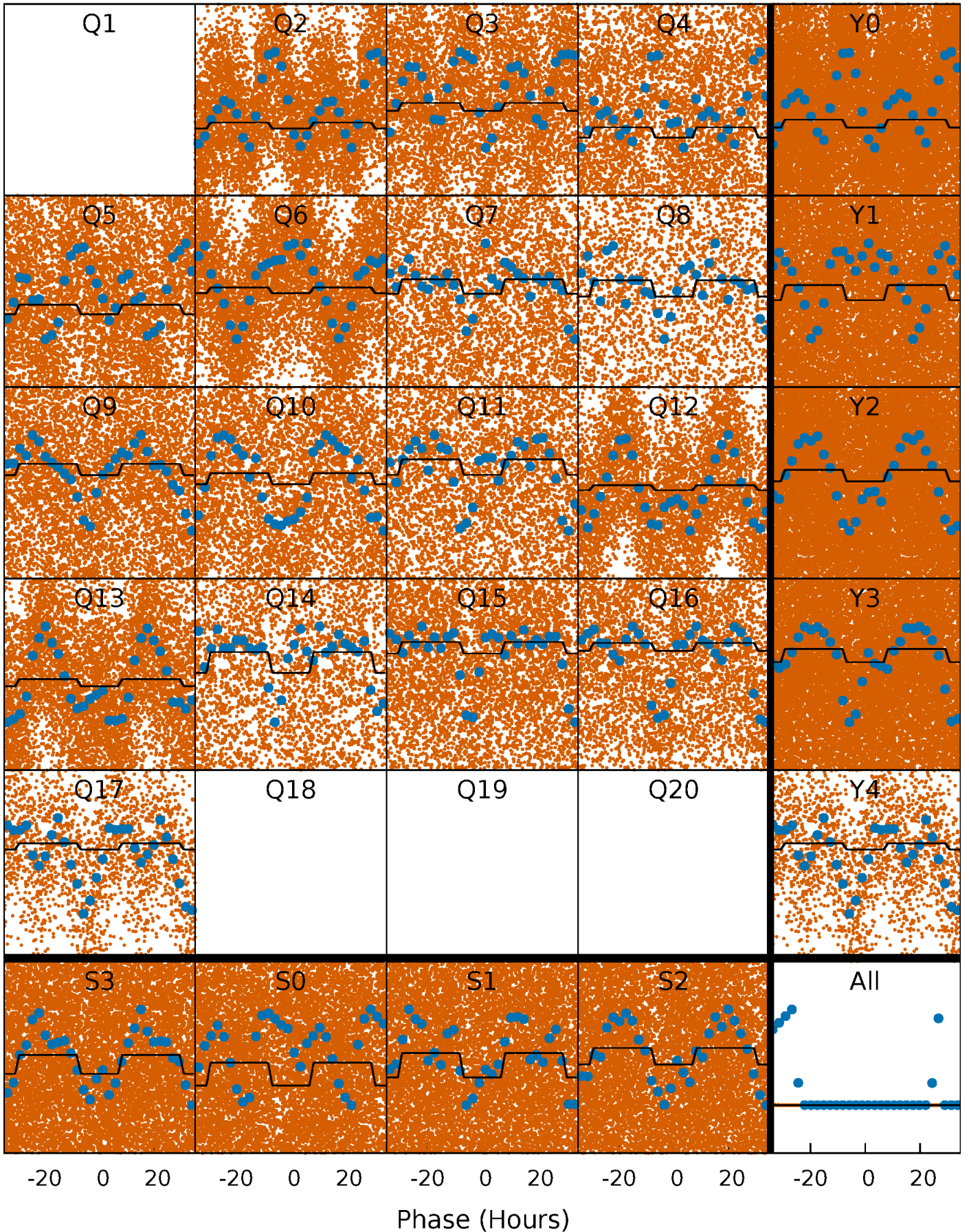
DV Quarter-Phased Transit Curves

TCE 008188059-01 P= 1.574800 Days $T_0=132.963205$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

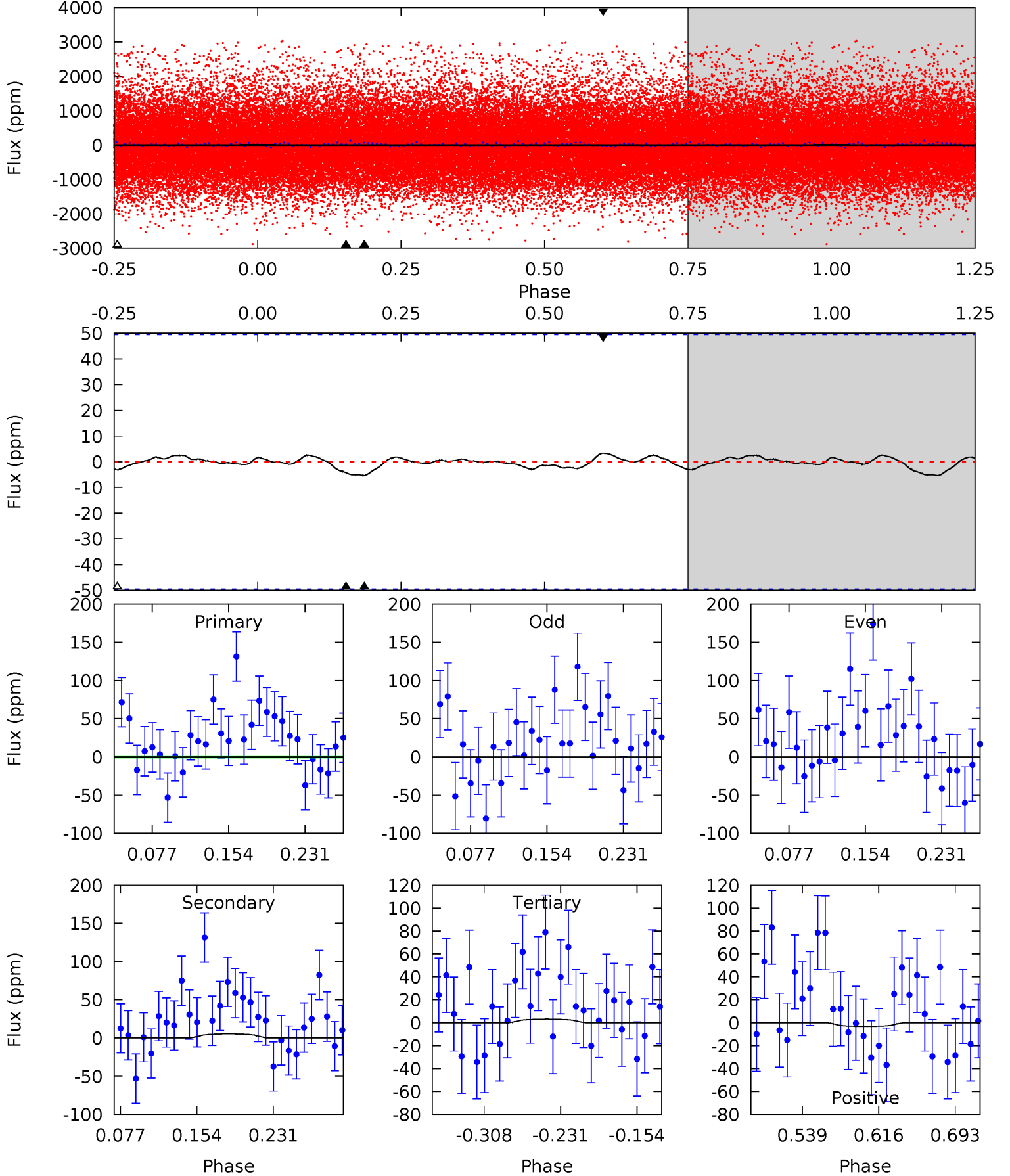
TCE 008188059-01 P= 1.568396 Days $T_0=132.203488$ (BKJD)



DV Model-Shift Uniqueness Test

008188059-01, P = 1.574800 Days, E = 132.963205 Days

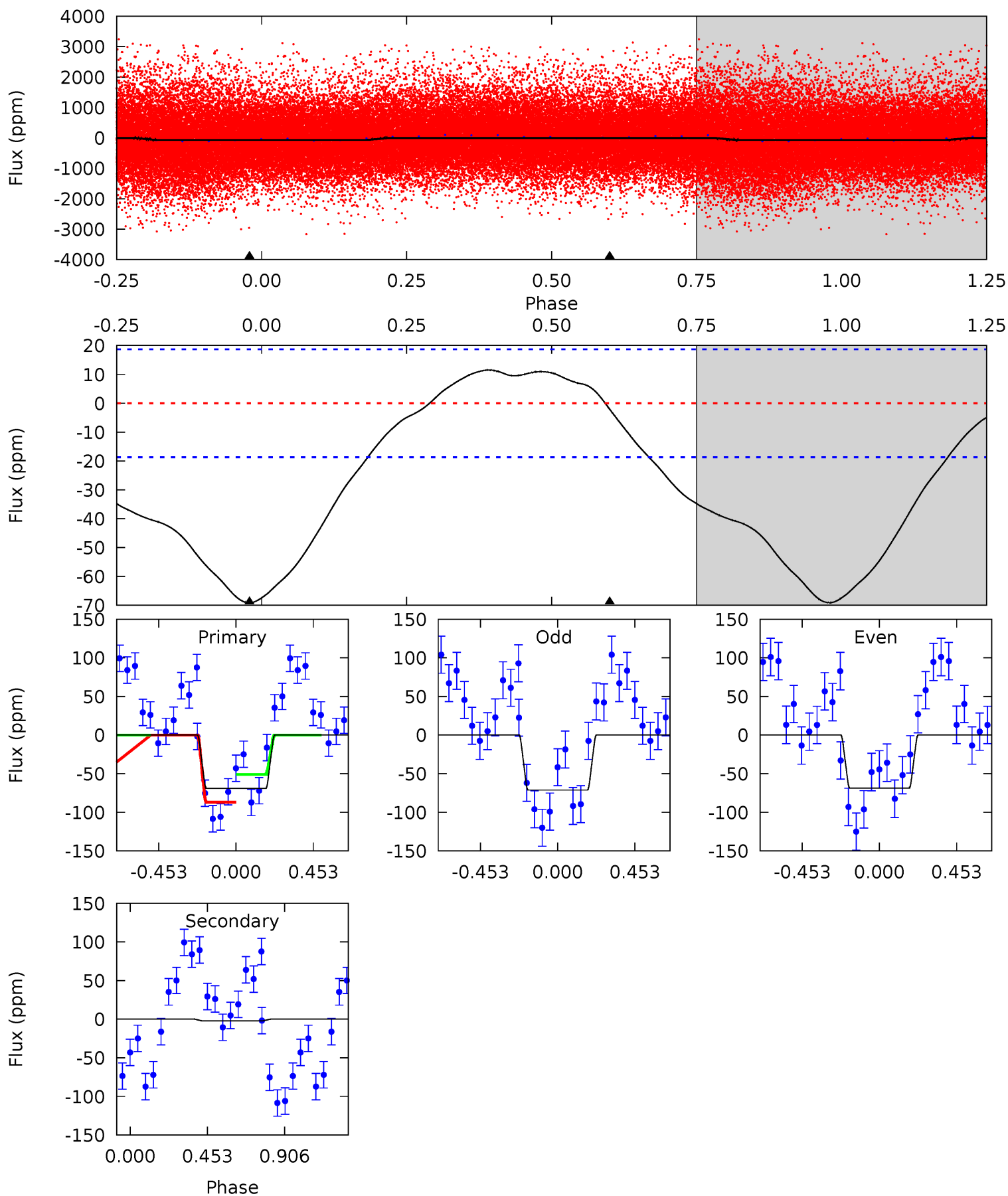
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.40	0.50	0.29	0.31	4.62	1.77	0.13	0.11	0.09	0.21	0.19	0.31	-81.2	0.38	0.30



Alt Model-Shift Uniqueness Test

008188059-01, P = 1.568396 Days, E = 132.203488 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.7	0.47	0	0	4.24	0.75	0.97	15.7	15.7	0.47	0.47	0.29	0.79	0.14	3.84



Stellar Parameters For KIC 008188059

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4301^{+116}_{-142}	$4.610^{+0.056}_{-0.016}$	$0.020^{+0.250}_{-0.300}$	$0.662^{+0.032}_{-0.059}$	$0.652^{+0.057}_{-0.057}$	$3.160^{+0.739}_{-0.272}$
	+3%/-3%	+1%/-0%	+1250%/-1500%	+5%/-9%	+9%/-9%	+23%/-9%
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 008188059-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-5 ± 11	$0.86^{+0.77}_{-0.57}$	1415^{+39}_{-51}	2411^{+1101}_{-5006}	$1.495^{+16.366}_{-3.267}$
Alt.	-2 ± 4	$0.97^{+0.90}_{-0.65}$	1409^{+49}_{-50}	1817^{+1011}_{-4168}	$0.378^{+4.102}_{-0.978}$

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 $A_{obs} \gg 1.0$

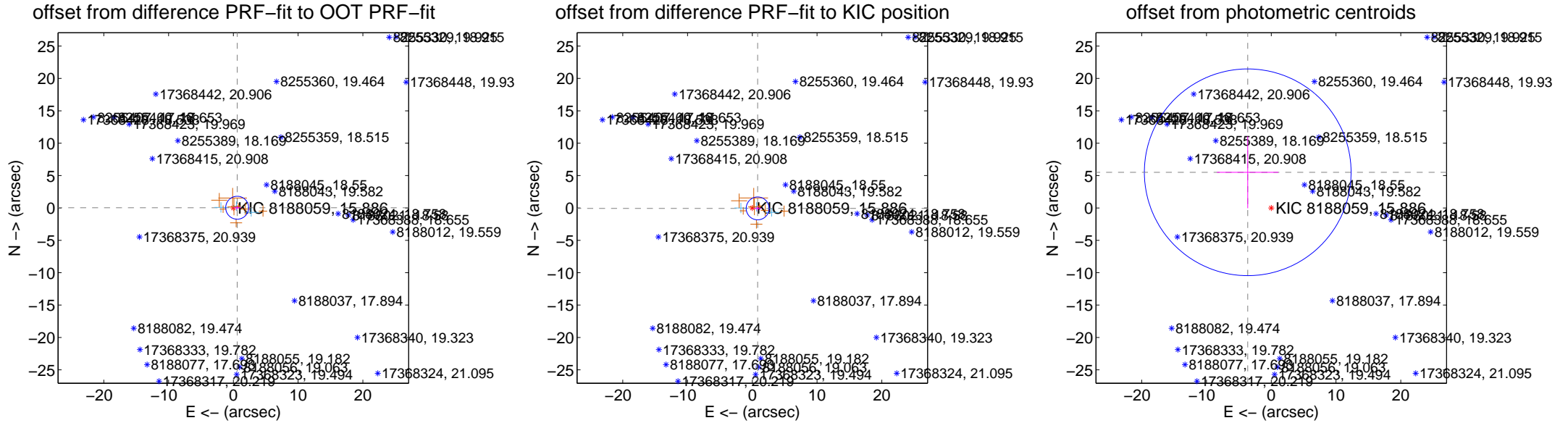
DV Centroid Data

Supplemental centroid analysis for 008188059-01. Kepler magnitude: 15.89. Transit SNR 1.80

There are 3 quarters with good PRF difference image offsets

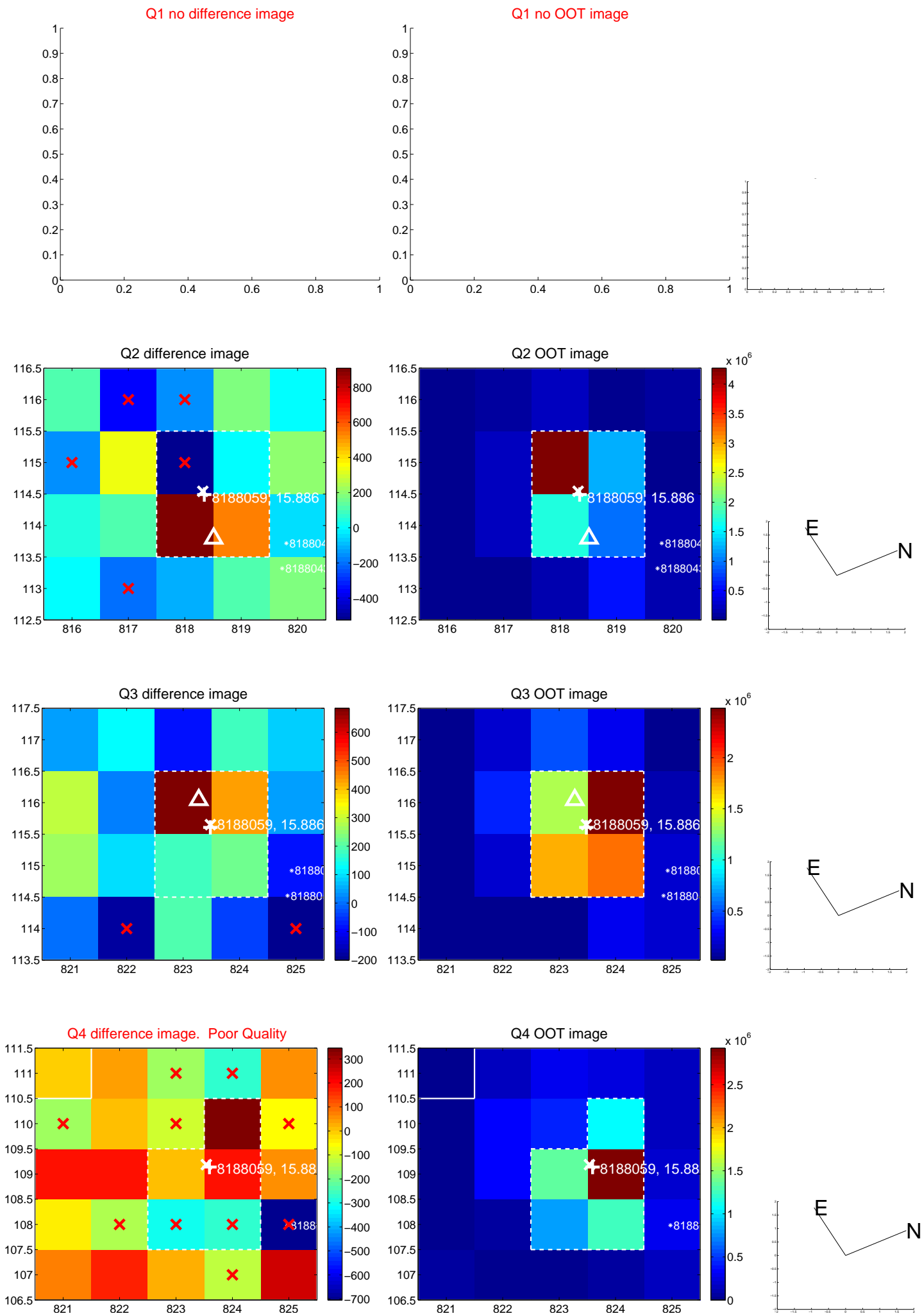
The direct PRF centroid is offset from the target star catalog position by about 0.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.593 ± 0.590	1.00	-0.592 ± 0.597	0.034 ± 0.293
PRF-fit source offset from KIC position	0.828 ± 0.589	1.41	-0.825 ± 0.577	-0.068 ± 0.320
photometric centroid source offset	6.60 ± 5.32	1.24	3.63 ± 4.75	5.51 ± 5.55

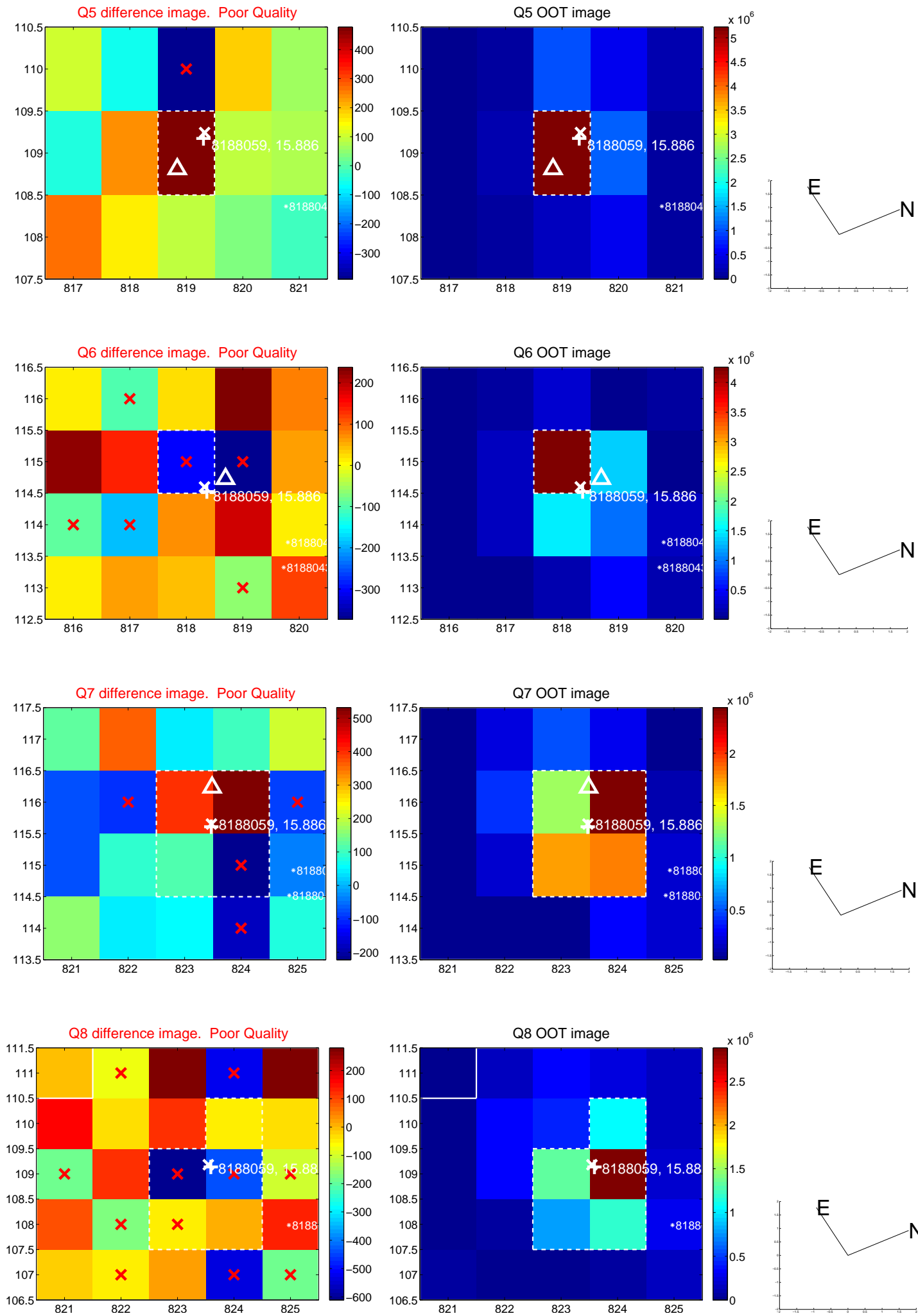


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

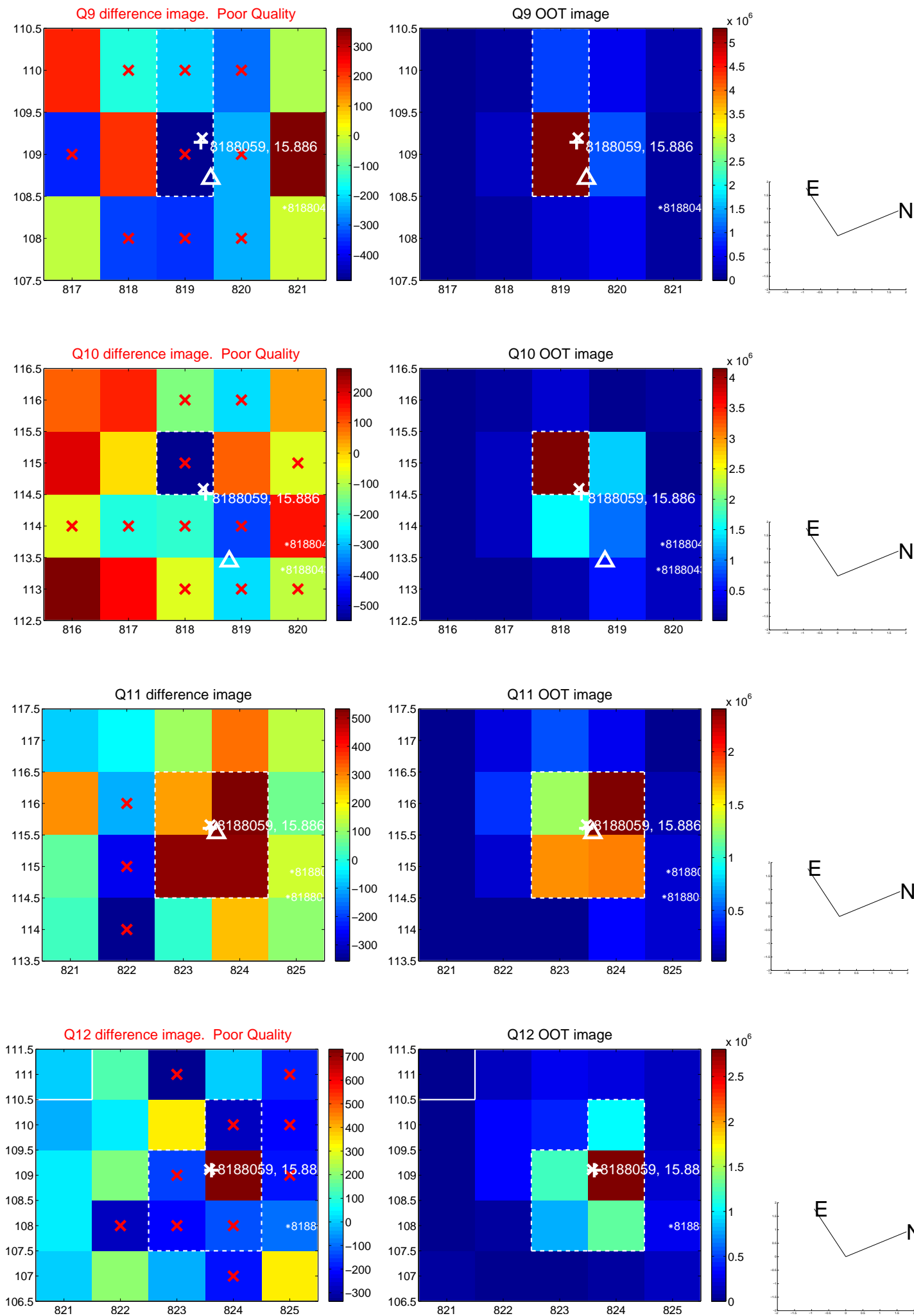
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



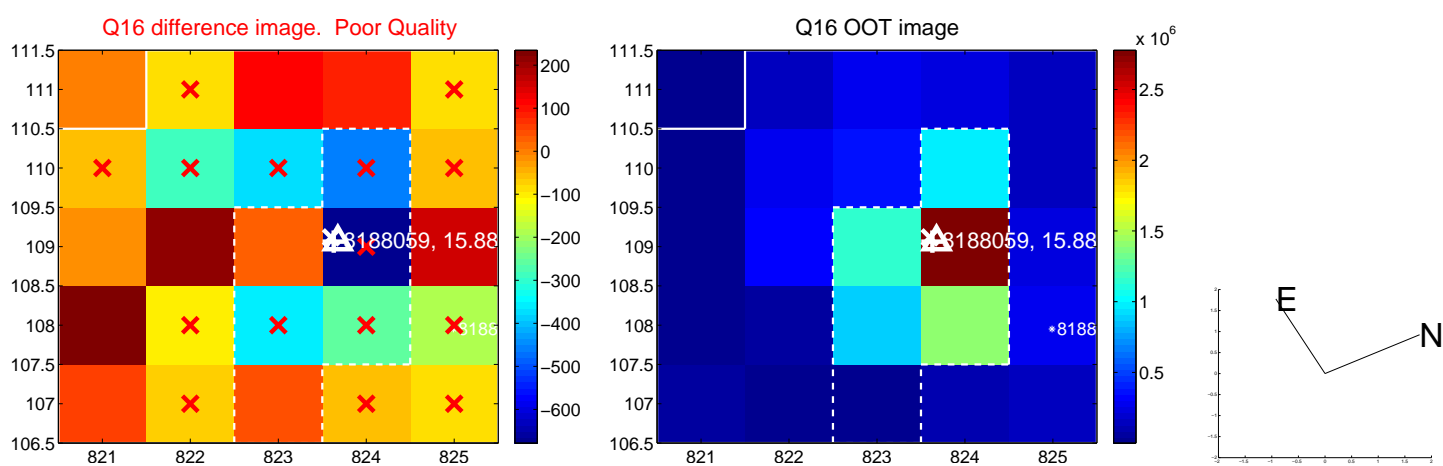
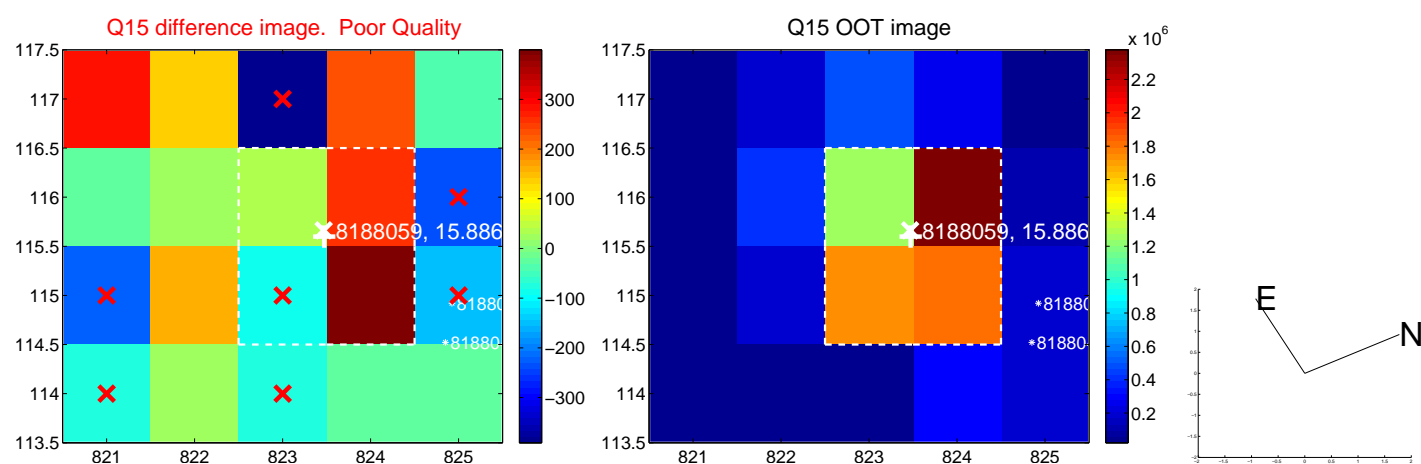
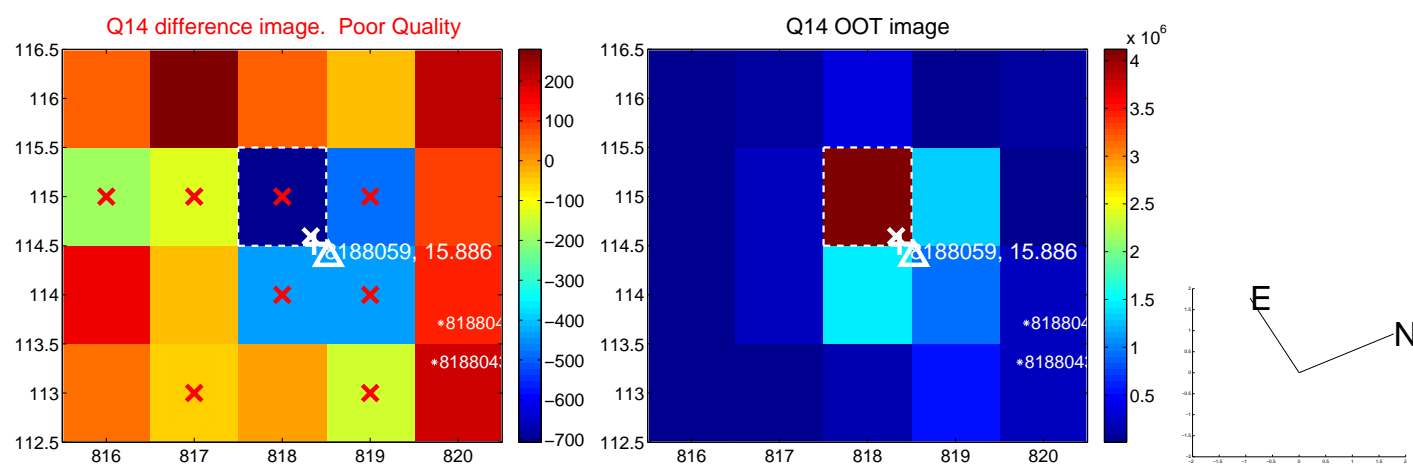
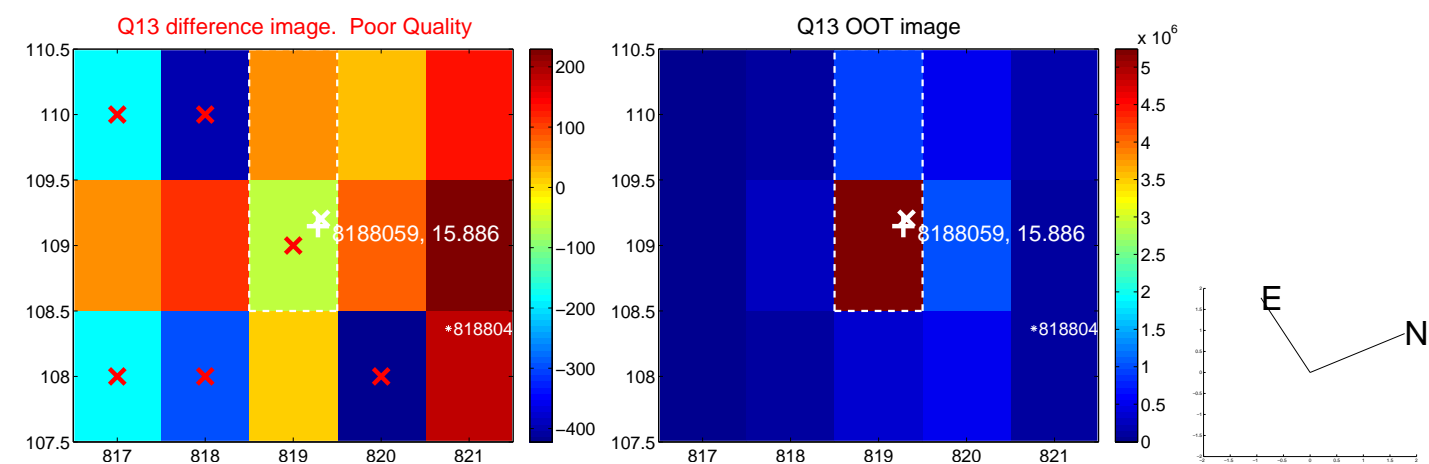
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



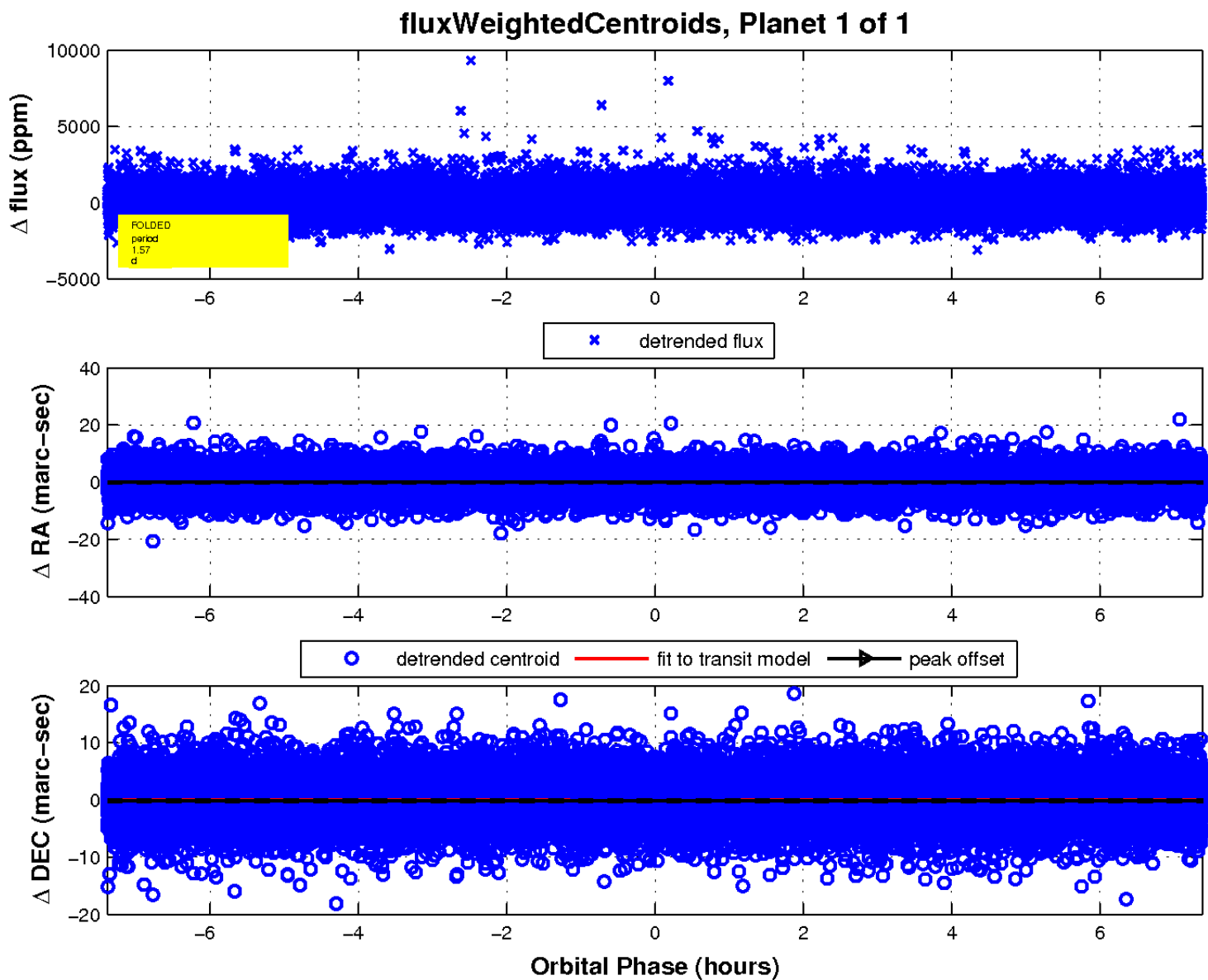
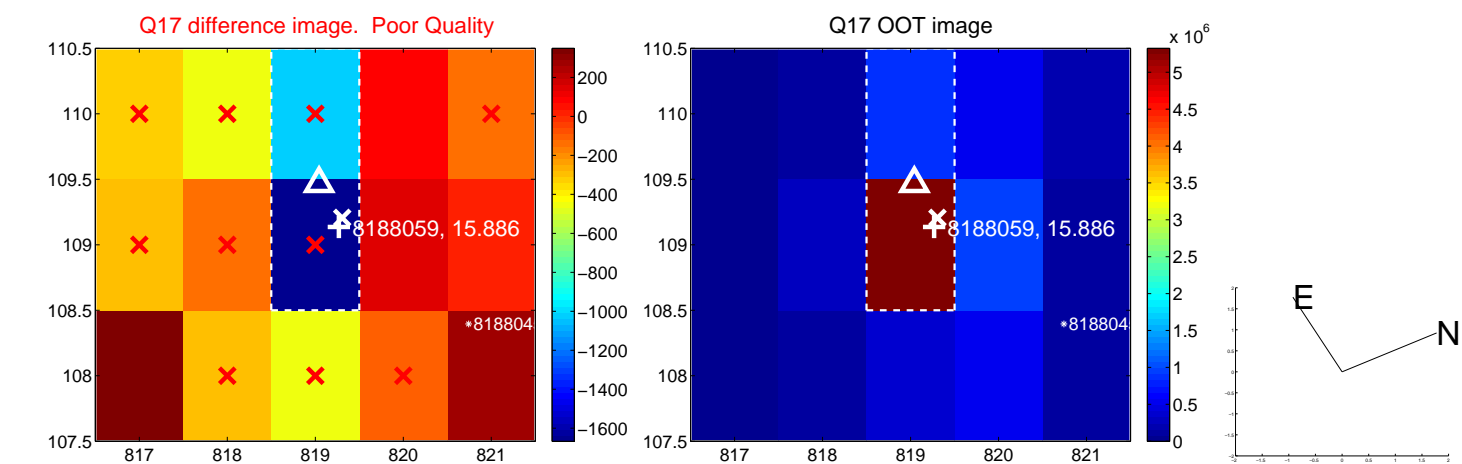
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

