

KIC 005806860

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})
005806860-01	OBS	No	1.833435	131.679724	13.1	16.279	7.5	8.7	1.06	6065	0.39	1455.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005806860-01	OBS	FP	0.00	1	0	0	0	LPP_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.

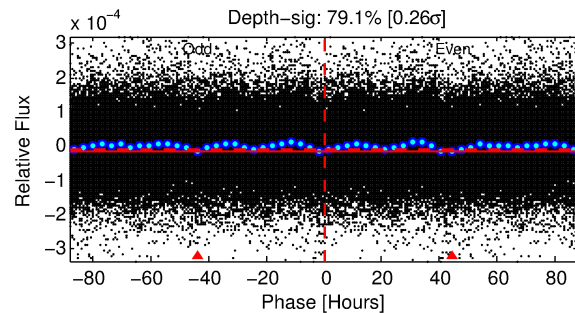
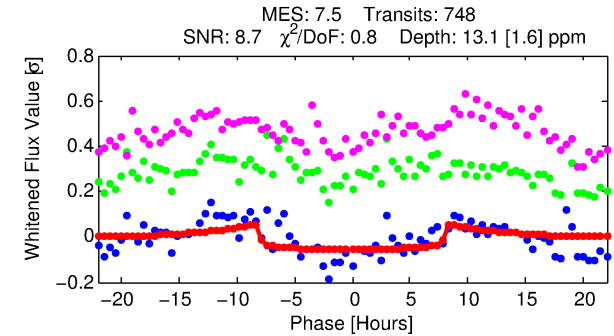
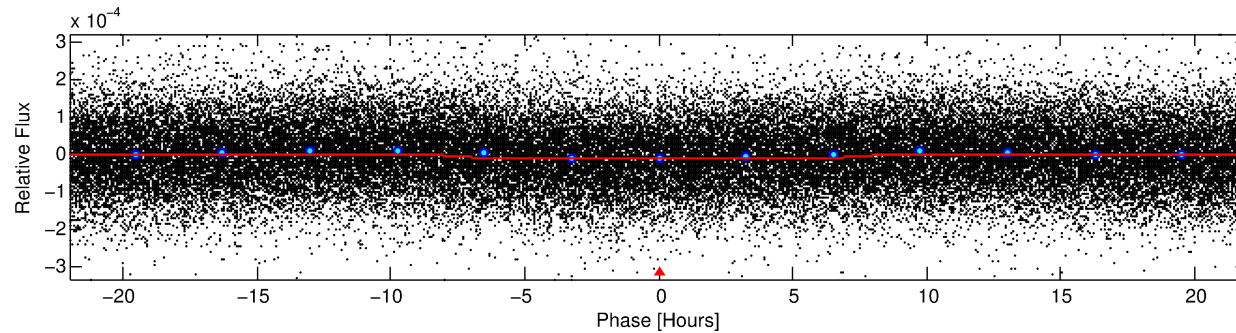
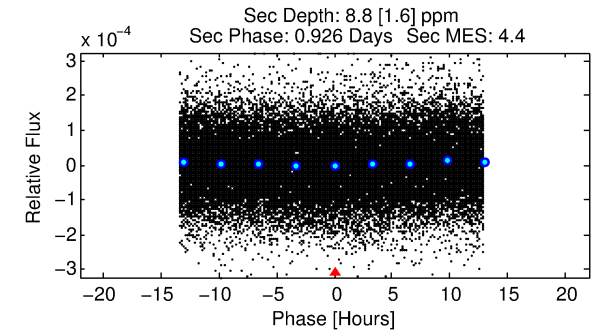
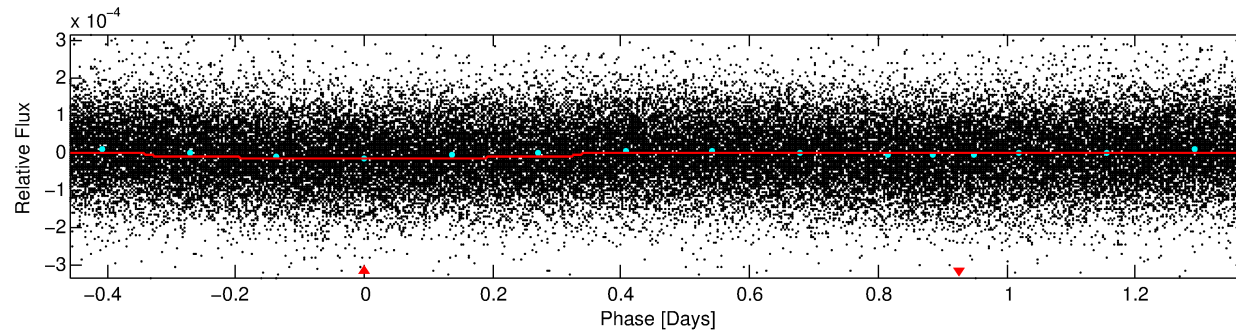
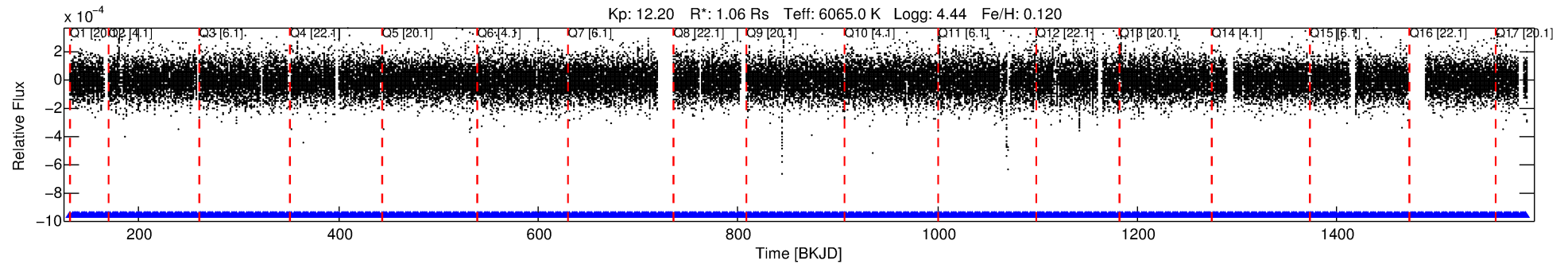
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005806860-01

No Significant Match Found

DV One-Page Summary

KIC: 5806860 Candidate: 1 of 1 Period: 1.833 d



DV Fit Results:

Period = 1.83344 [0.00003] d
Epoch = 131.6797 [0.0071] BKJD
Rp/R* = 0.0034 [0.0018]
a/R* = 1.07 [0.35]
b = 0.51 [3.76]
Seff = 1455.89 [336.84]
Teff = 1575 [91] K
Rp = 0.39 [0.22] Re
a = 0.0306 [0.0044] AU
Ag = 29.25 [32.45] [0.87σ]
Teffp = 5663 [1541] K [2.65σ]

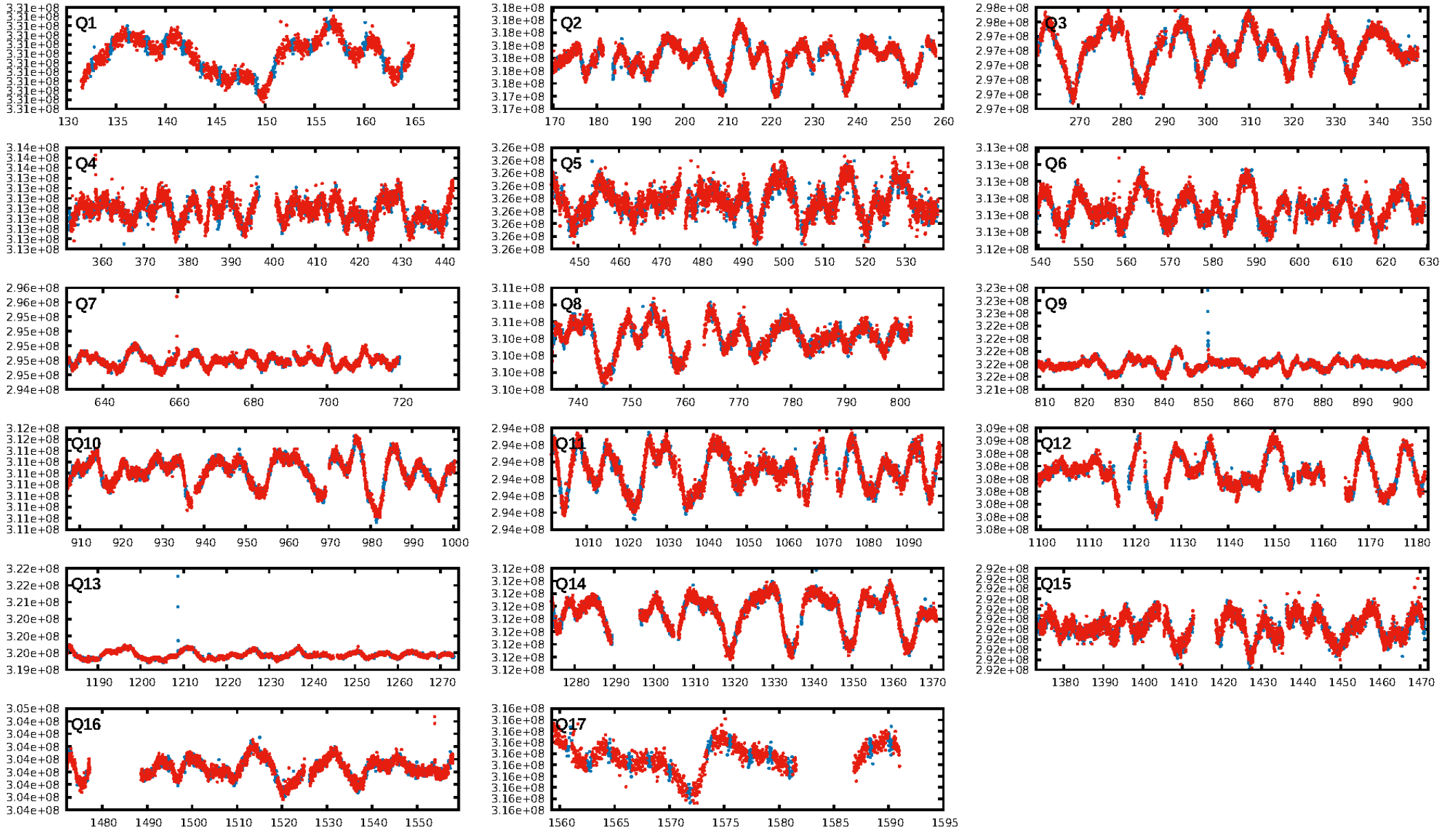
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [713/713]
GhostDiagnostic-chr: 3.355
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

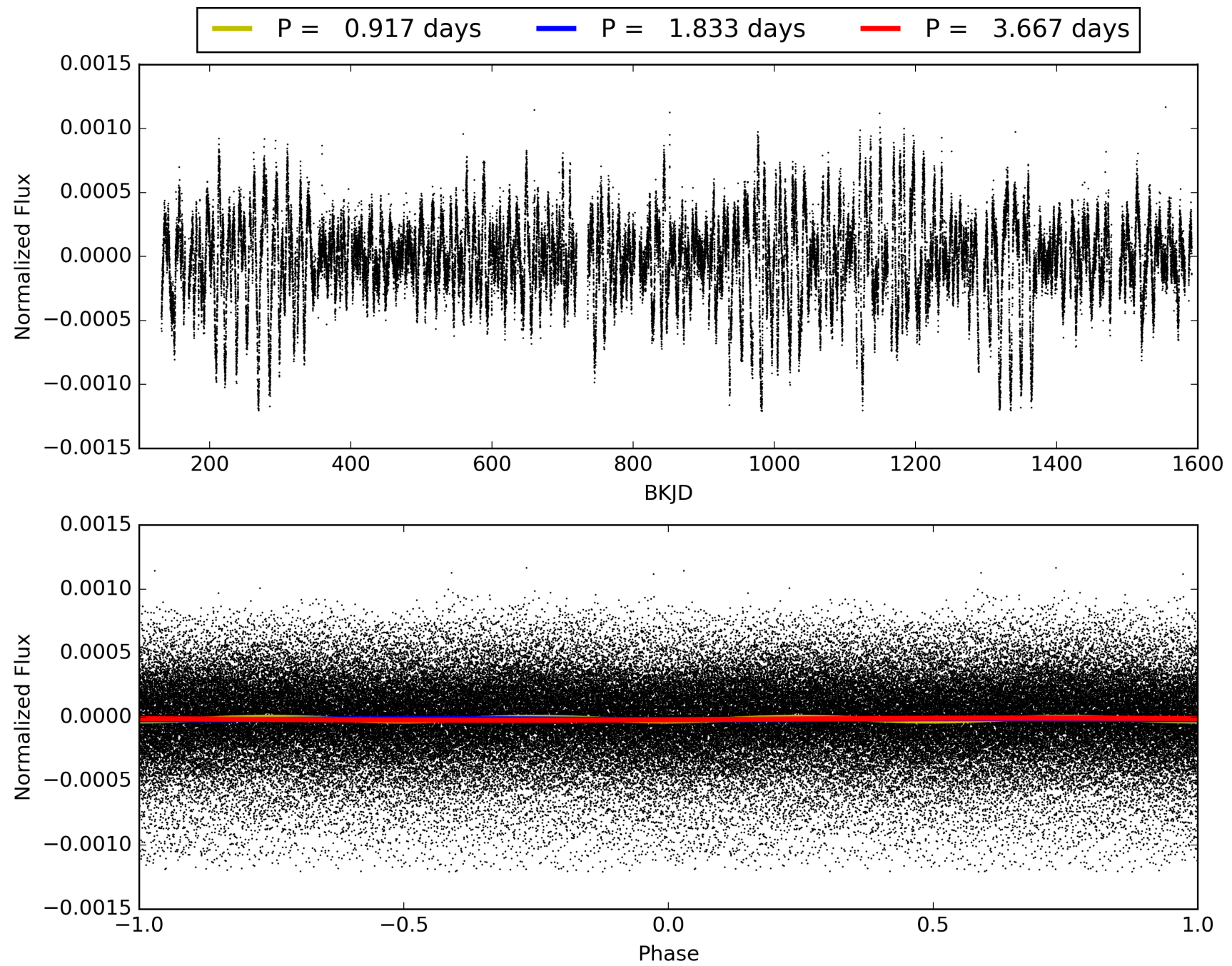
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:47:22 Z

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

TCE 005806860-01, PDC Light Curves

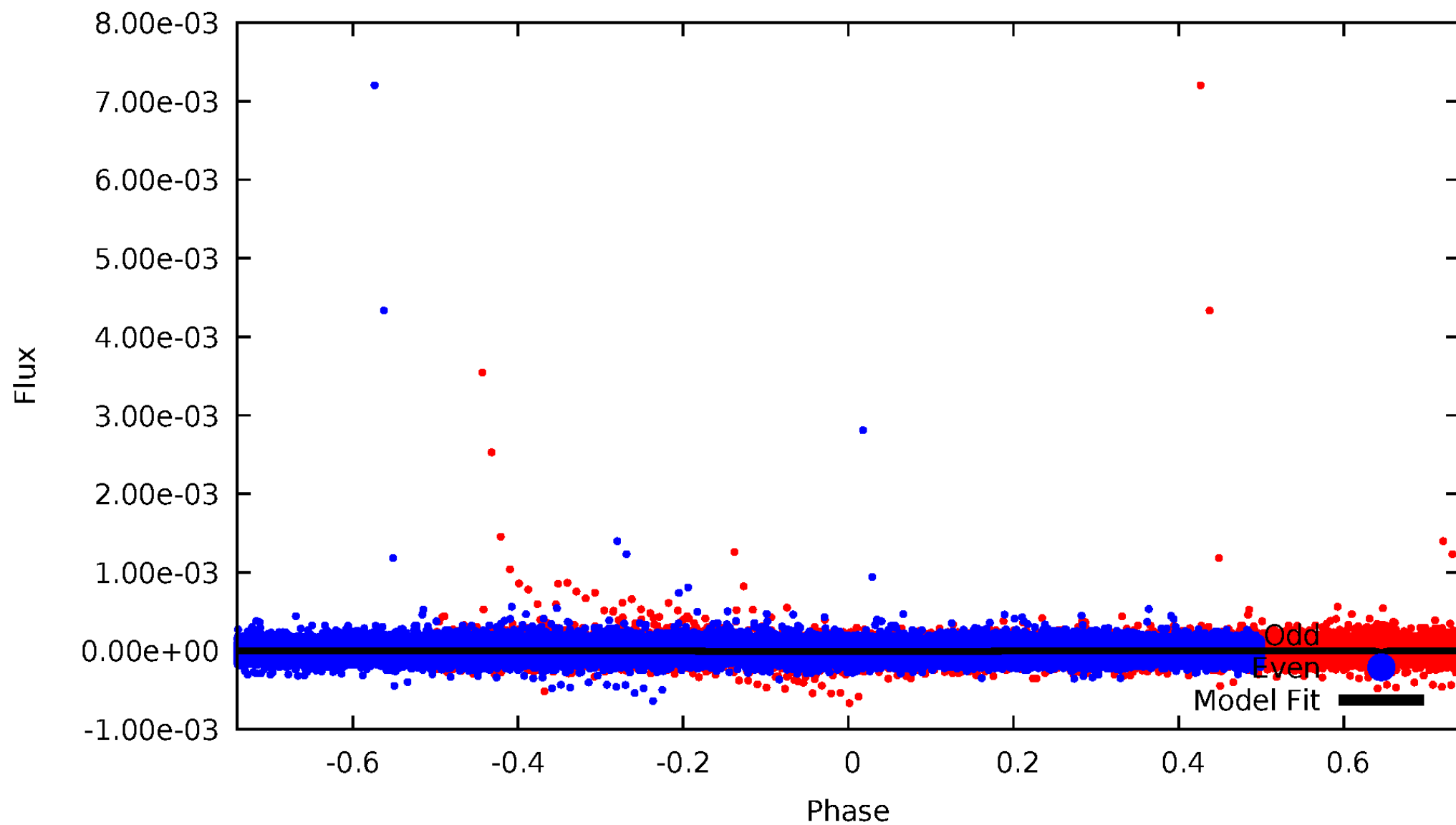


TCE 005806860-01



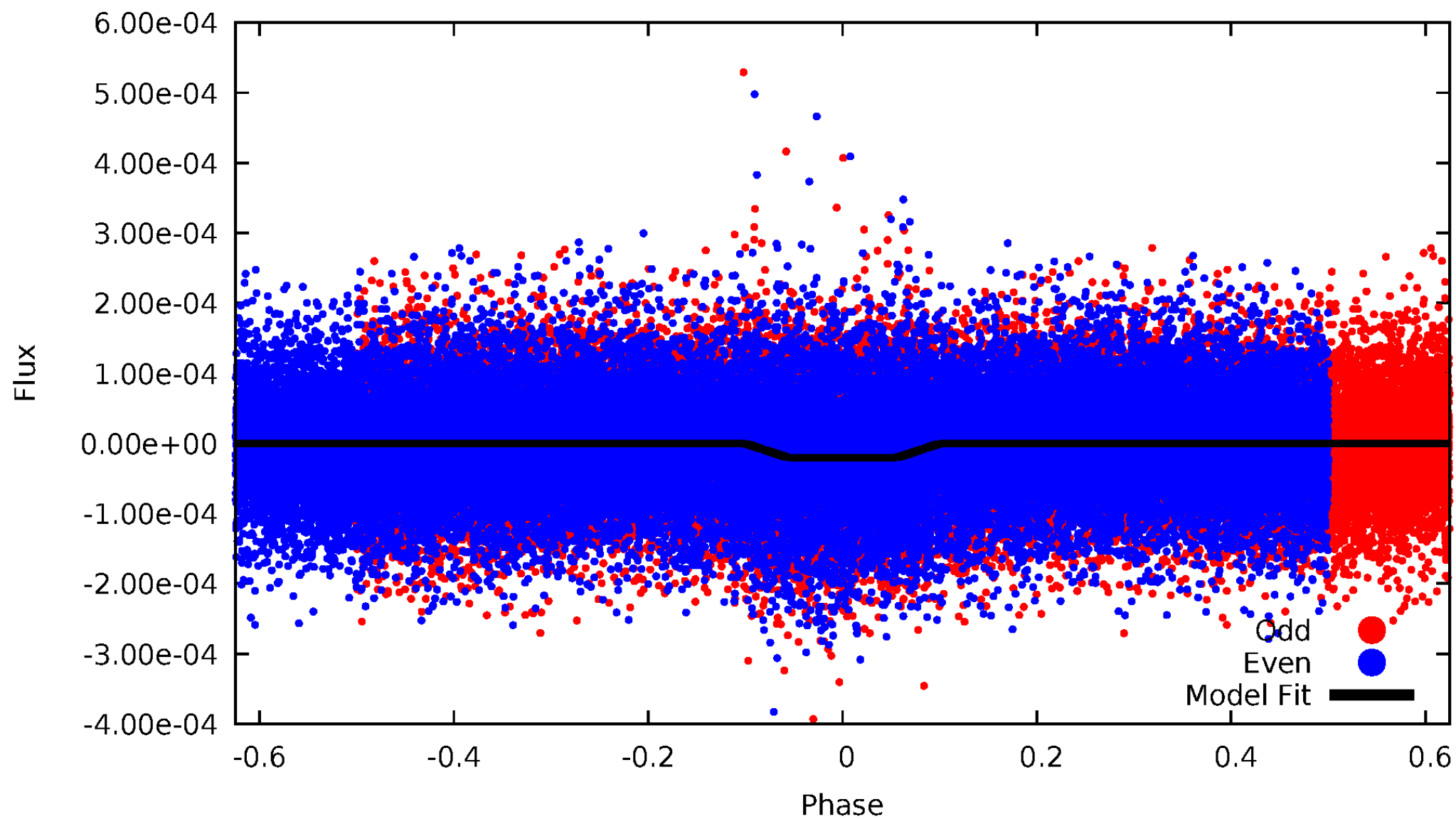
DV Odd/Even

TCE 005806860-01



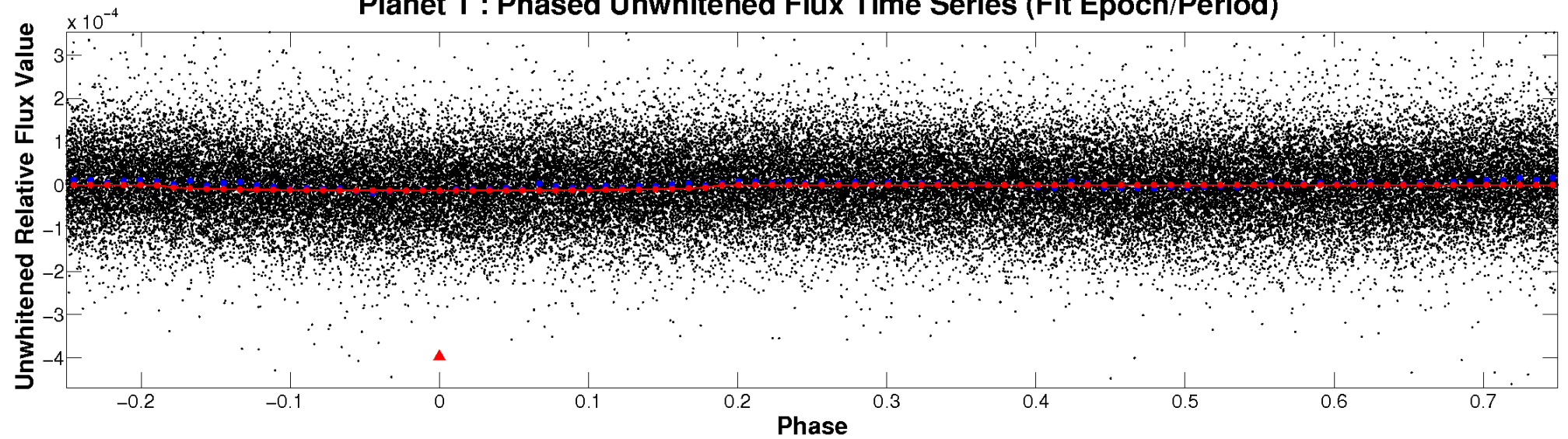
ALT Odd/Even

TCE 005806860-01

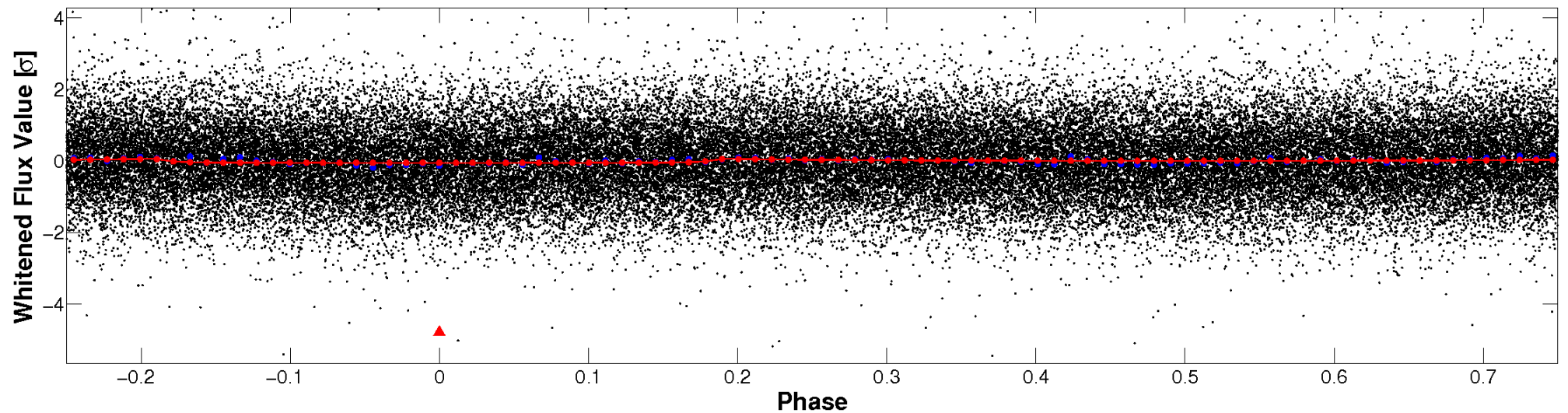


Non-Whitened Vs. Whitened Light Curve

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

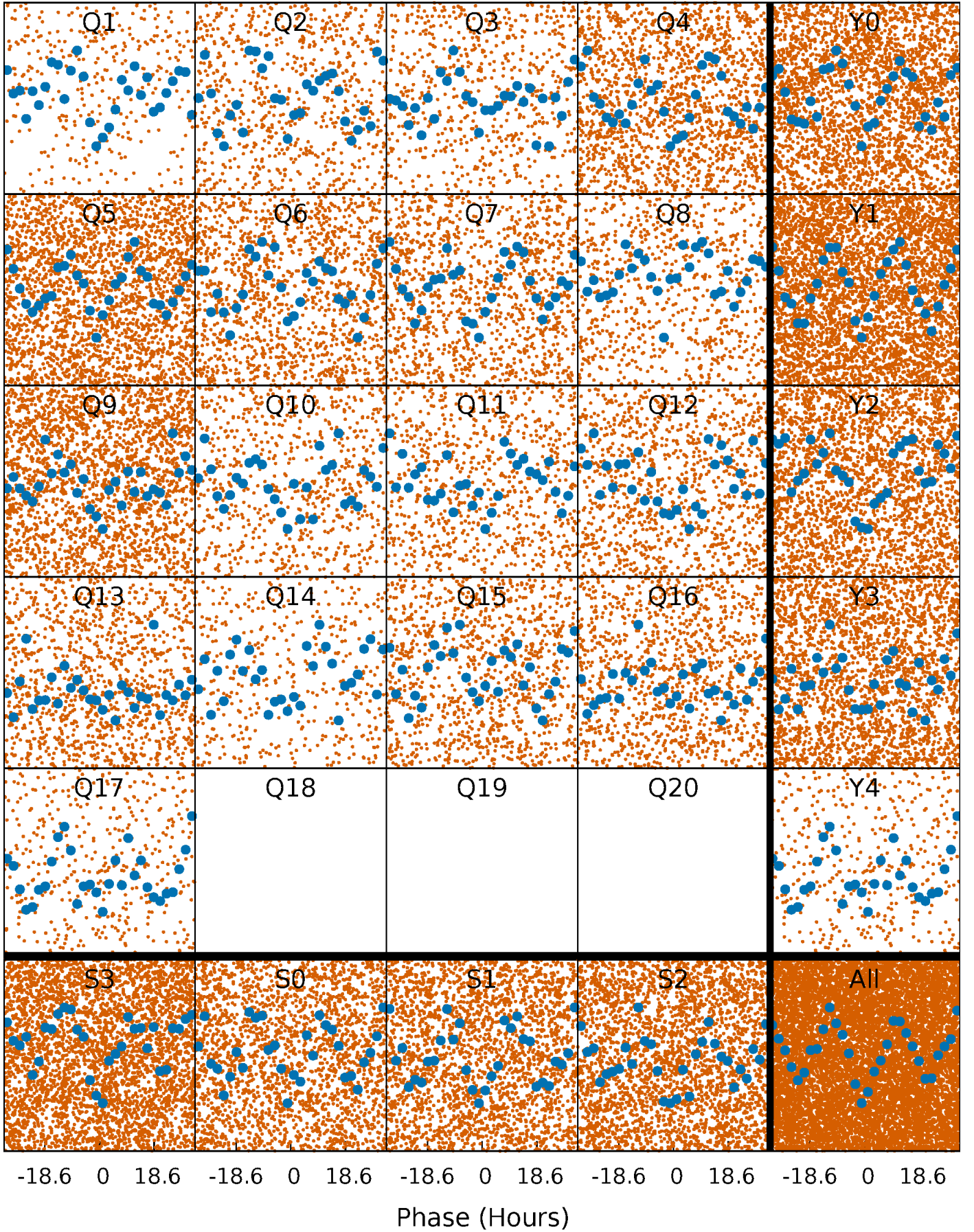


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



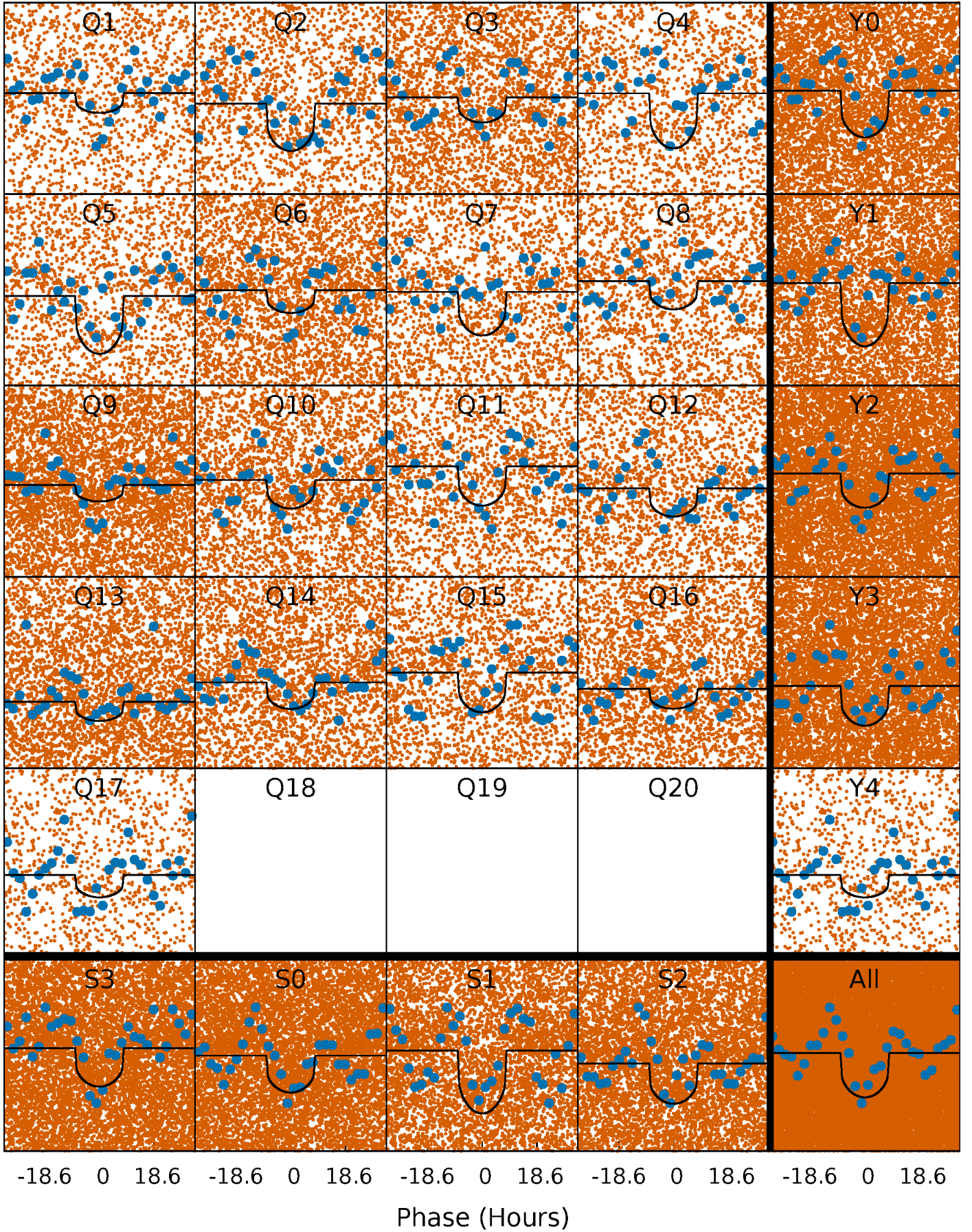
PDC Quarter-Phased Transit Curves

TCE 005806860-01 P= 1.833435 Days $T_0=131.679724$ (BKJD)



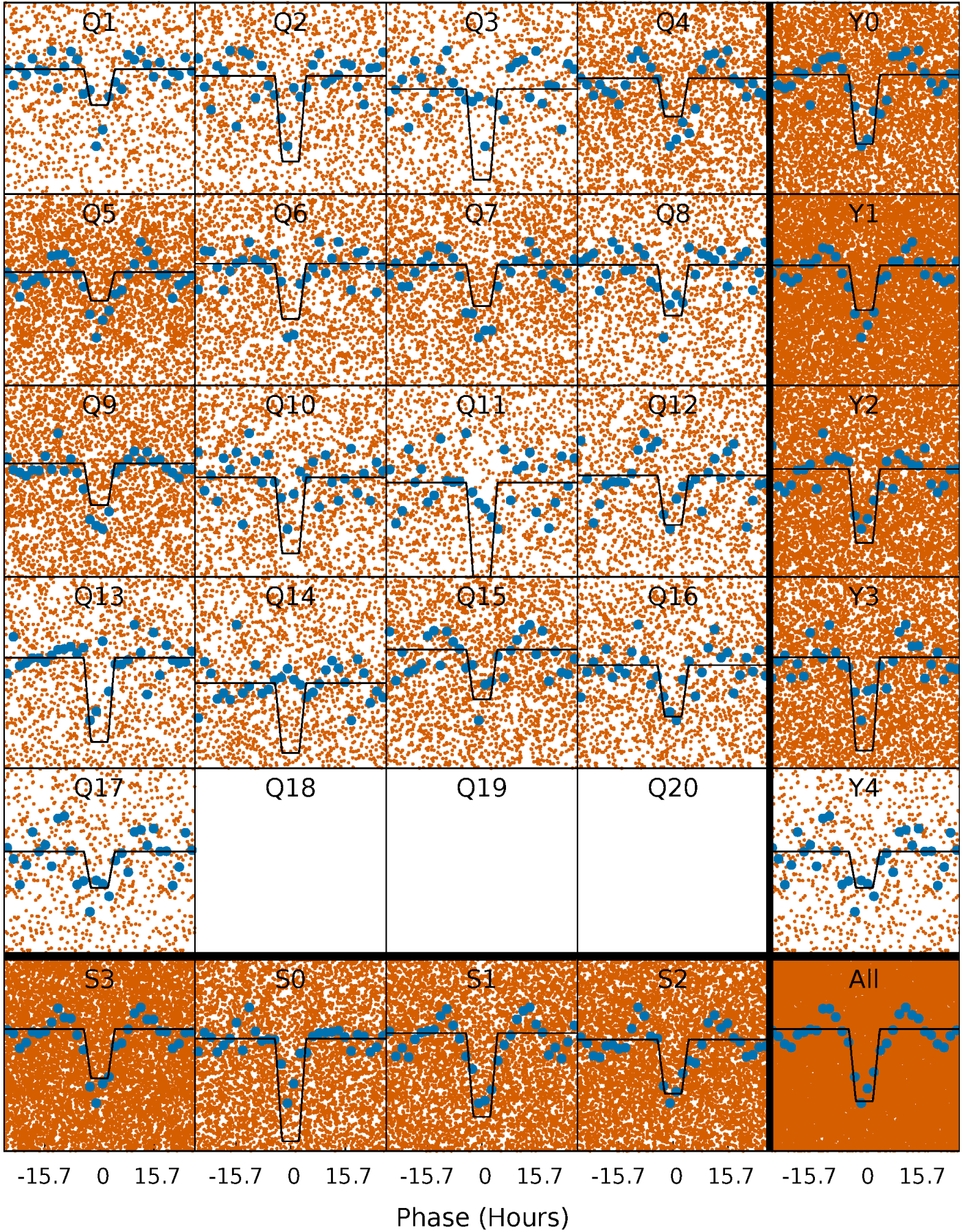
DV Quarter-Phased Transit Curves

TCE 005806860-01 P= 1.833435 Days $T_0=131.679724$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

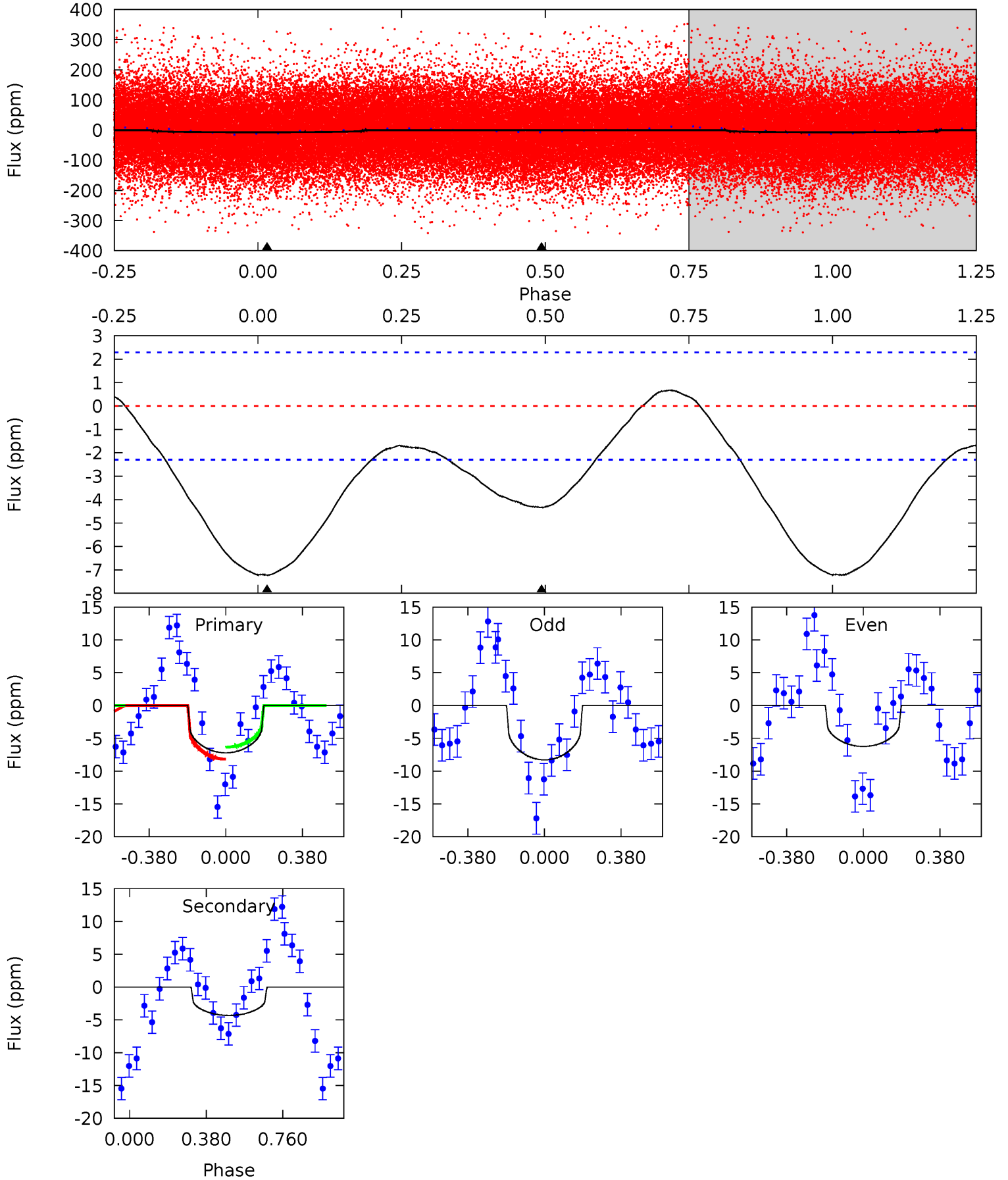
TCE 005806860-01 P= 1.833346 Days $T_0=131.675452$ (BKJD)



DV Model-Shift Uniqueness Test

005806860-01, P = 1.833435 Days, E = 129.846289 Days

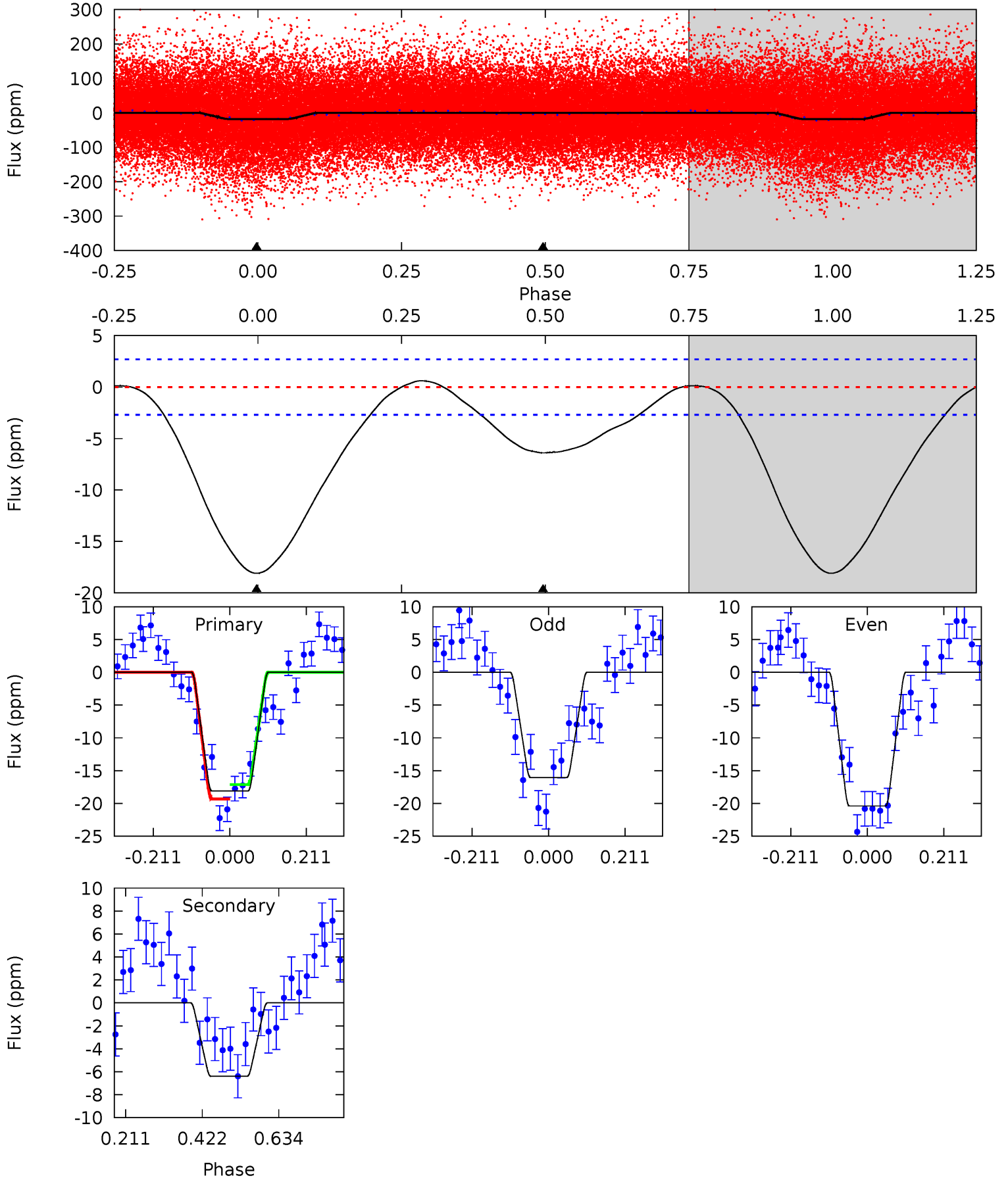
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.5	8.09	0	0	4.28	0.88	1.74	13.5	13.5	8.09	8.09	1.91	0.91	0.09	1.75



Alt Model-Shift Uniqueness Test

005806860-01, P = 1.833346 Days, E = 129.842106 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.5	10.4	0	0	4.41	1.25	0.86	29.5	29.5	10.4	10.4	3.56	0.90	0.03	1.77



Stellar Parameters For KIC 005806860

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	6065^{+78}_{-91}	$4.442^{+0.023}_{-0.128}$	$0.120^{+0.150}_{-0.150}$	$1.059^{+0.169}_{-0.060}$	$1.131^{+0.068}_{-0.075}$	$1.342^{+0.155}_{-0.449}$
	+1%/-2%	+1%/-3%	+125%/-125%	+16%/-6%	+6%/-7%	+12%/-33%
Source	SPE68	SPE68	SPE68	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 005806860-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-4 ± 1	$0.42^{+0.22}_{-0.20}$	2231^{+80}_{-59}	4790^{+1764}_{-716}	13^{+34}_{-7}
Alt.	-6 ± 1	$0.53^{+0.23}_{-0.22}$	2232^{+95}_{-58}	4676^{+1267}_{-628}	11^{+21}_{-6}

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 $A_{obs} \gg 1.0$

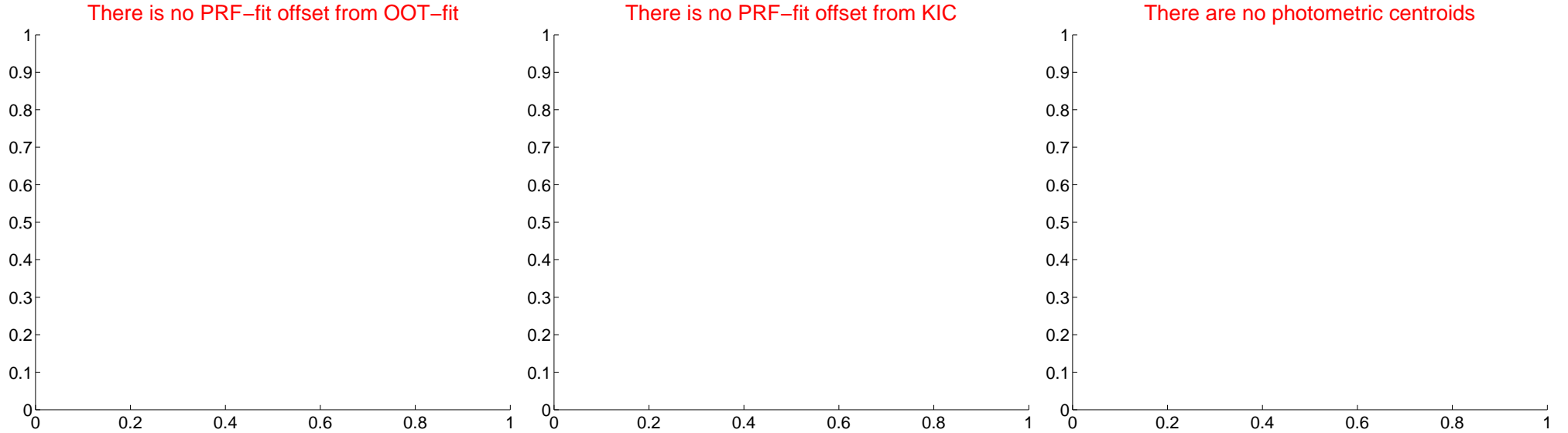
DV Centroid Data

Supplemental centroid analysis for 005806860-01. Kepler magnitude: 12.20. Transit SNR 8.71

There are 0 quarters with good PRF difference image offsets

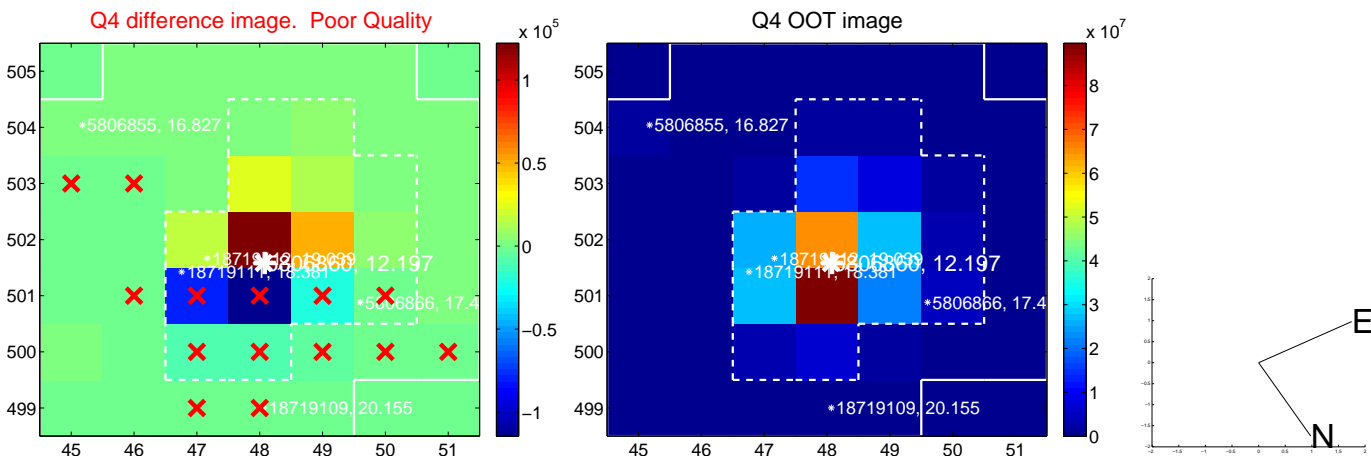
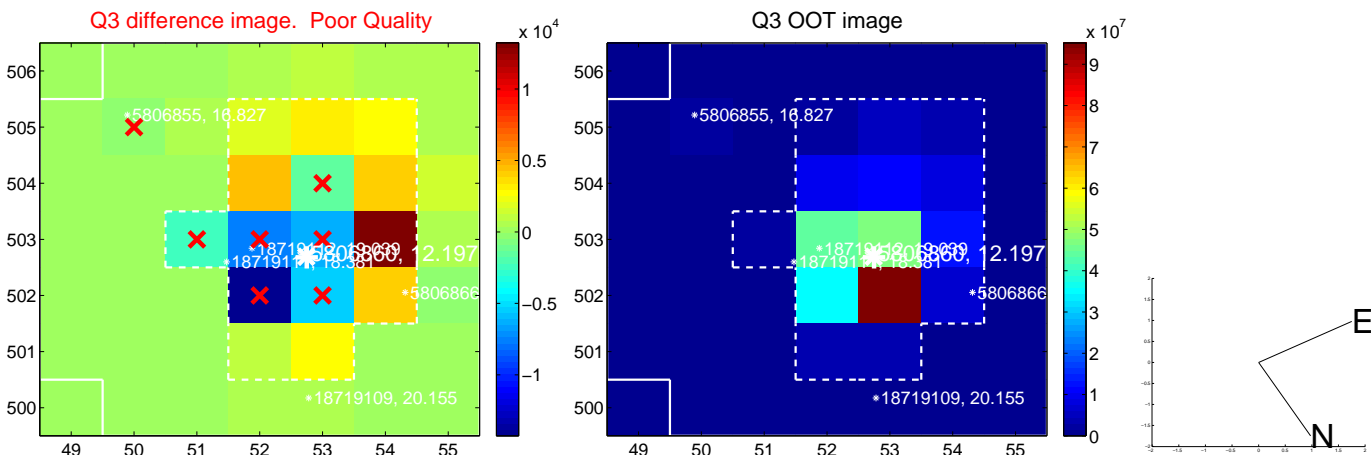
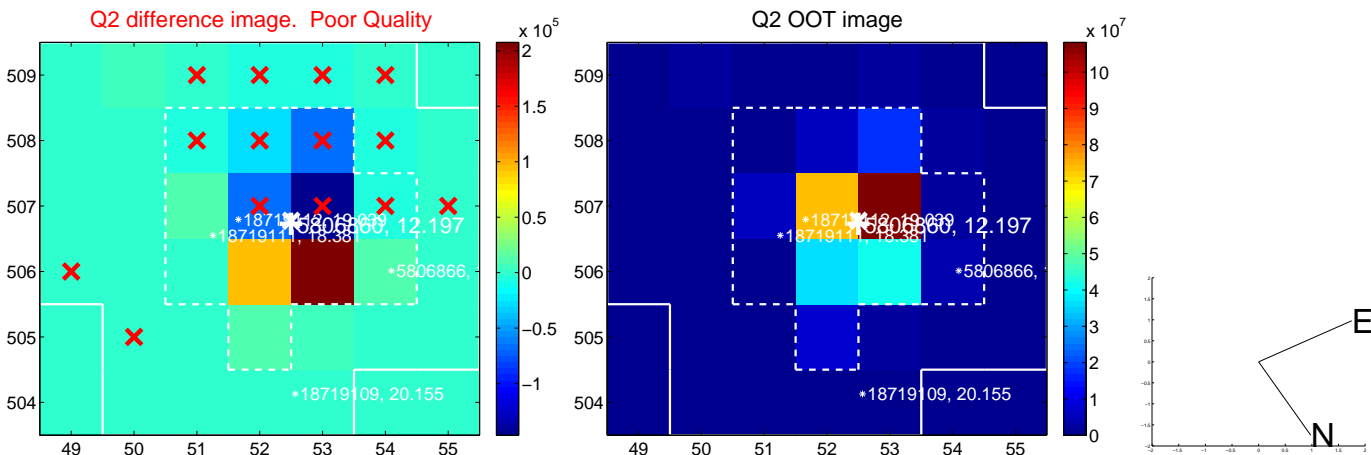
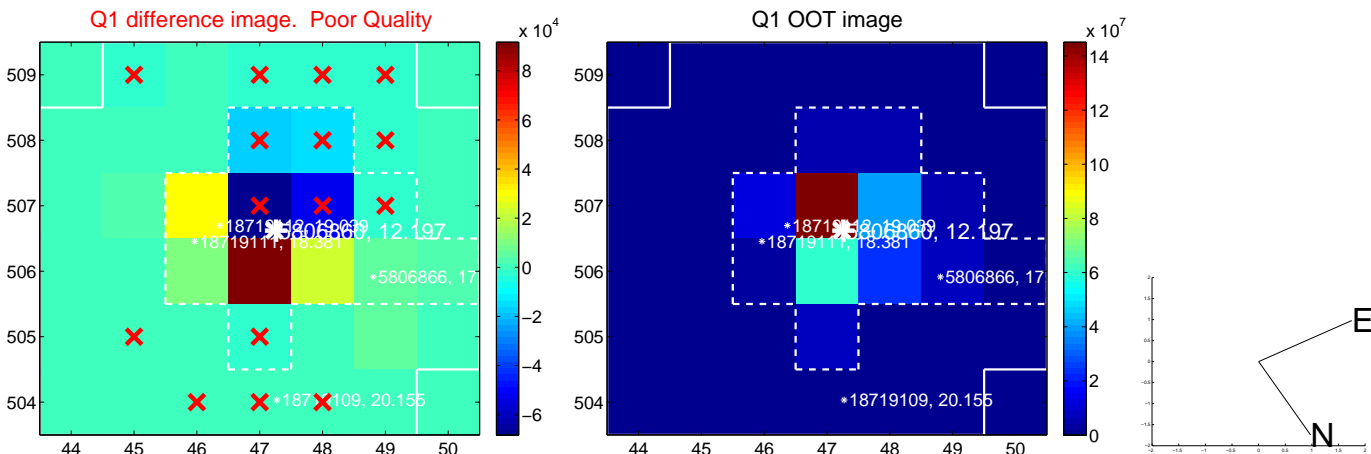
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	—	—	—	—

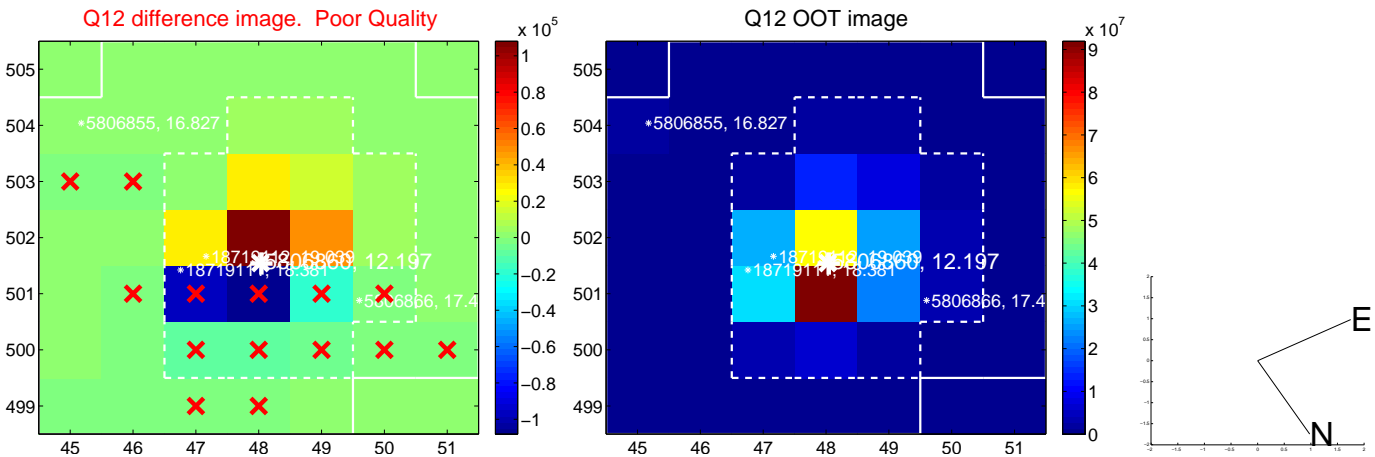
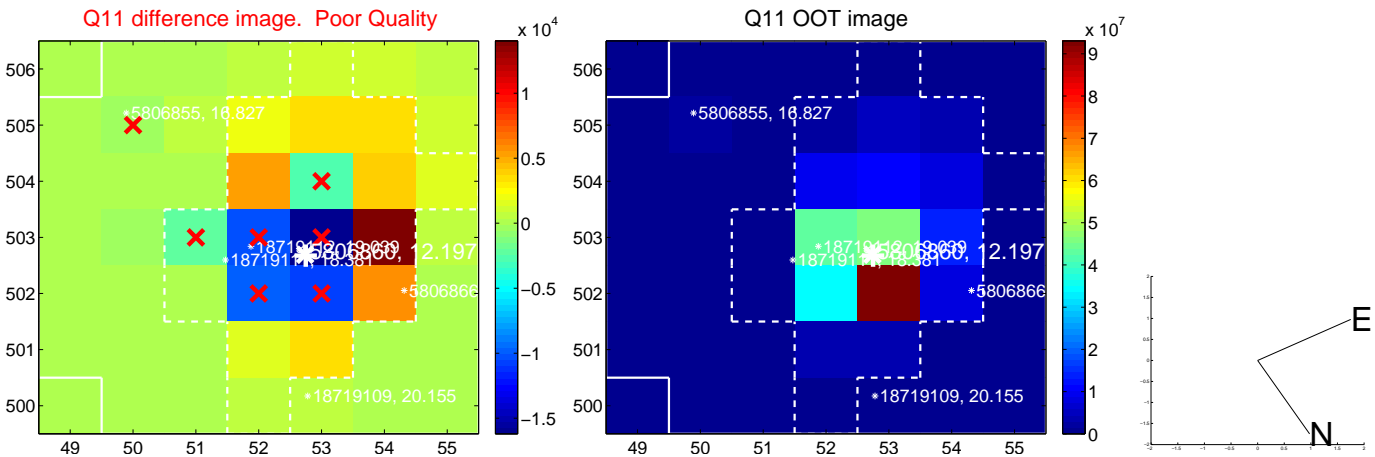
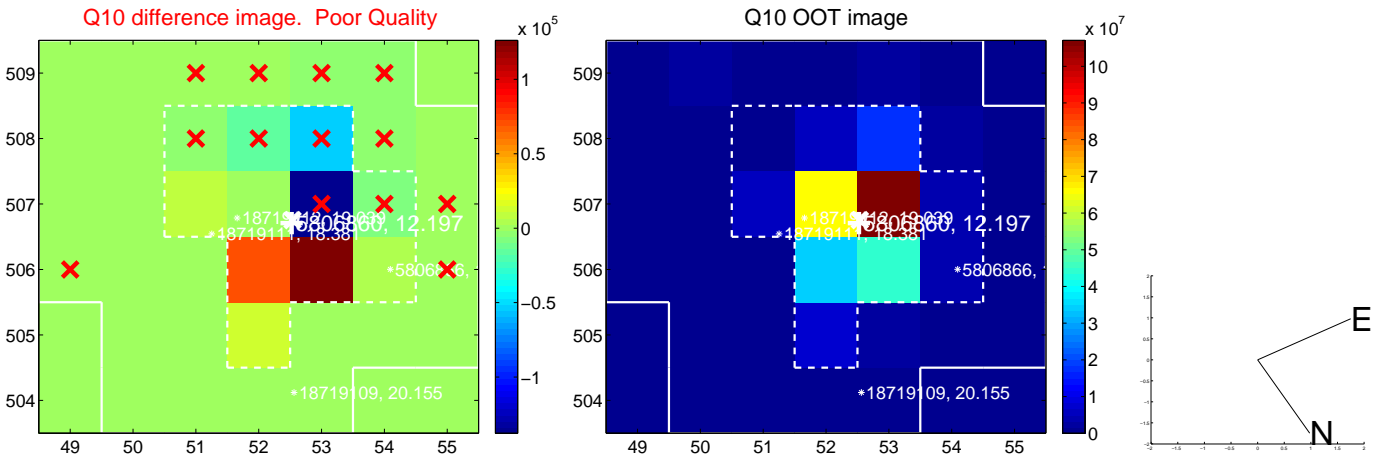
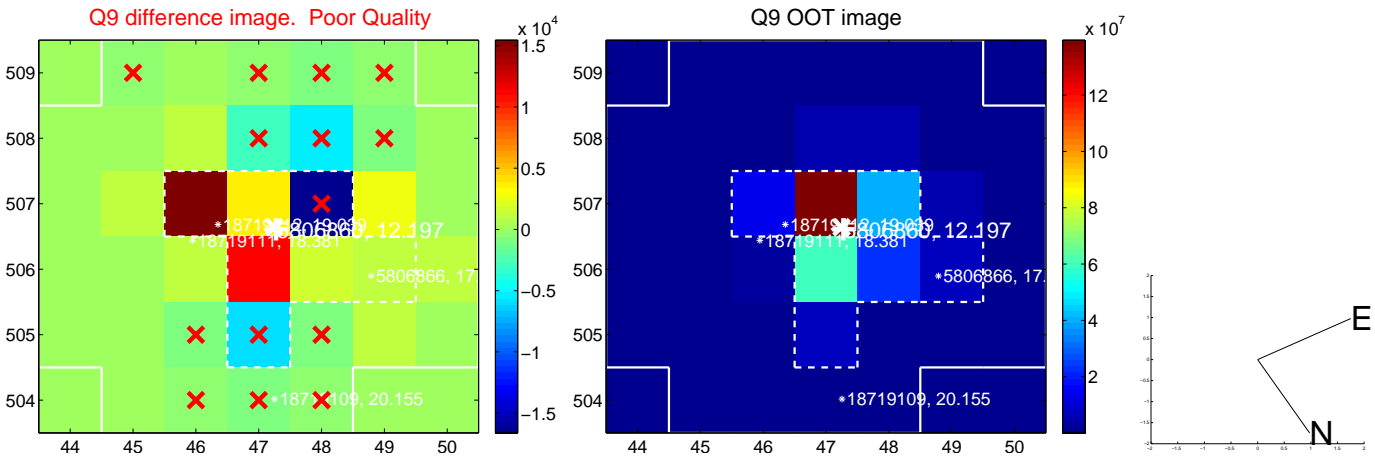


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

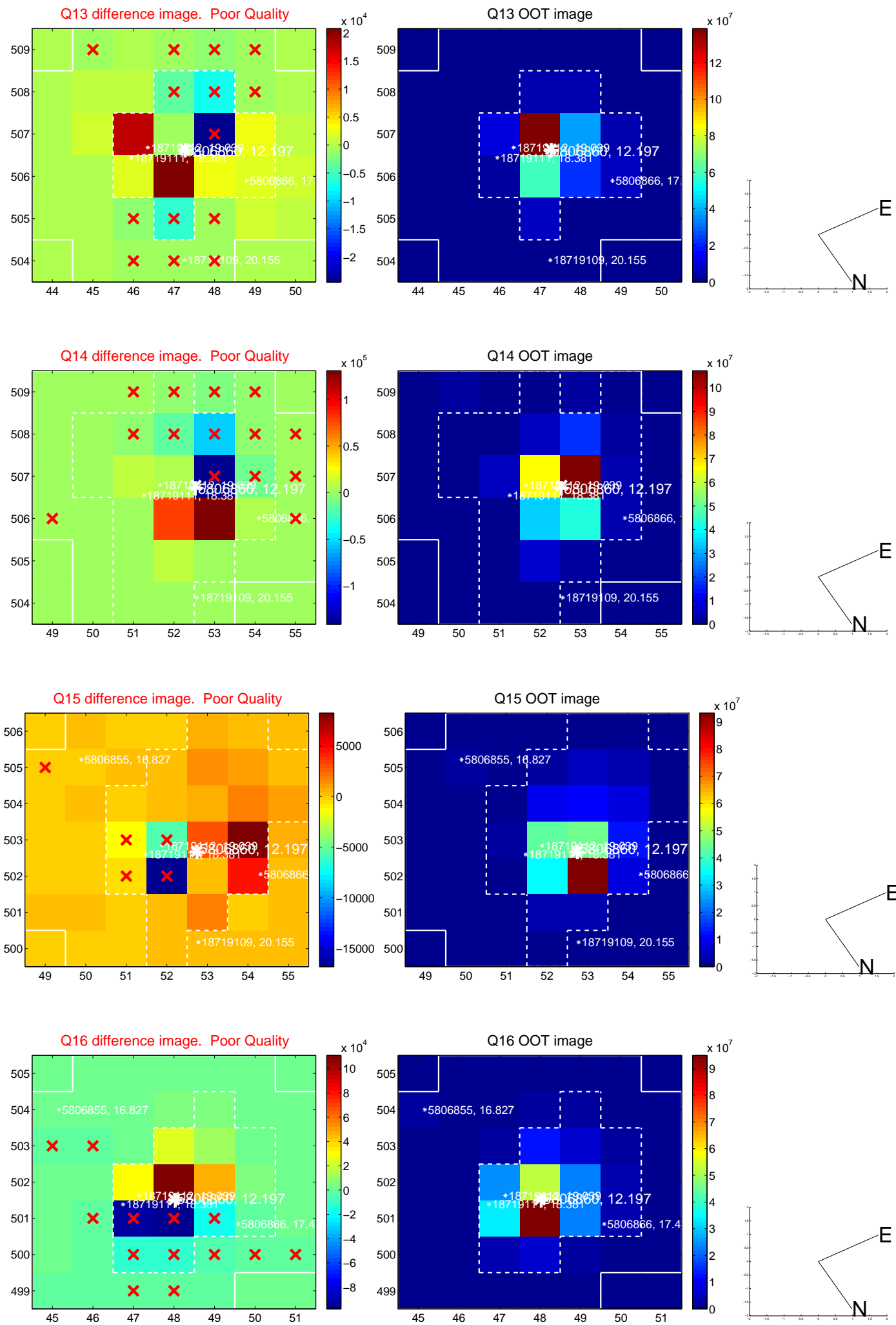
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



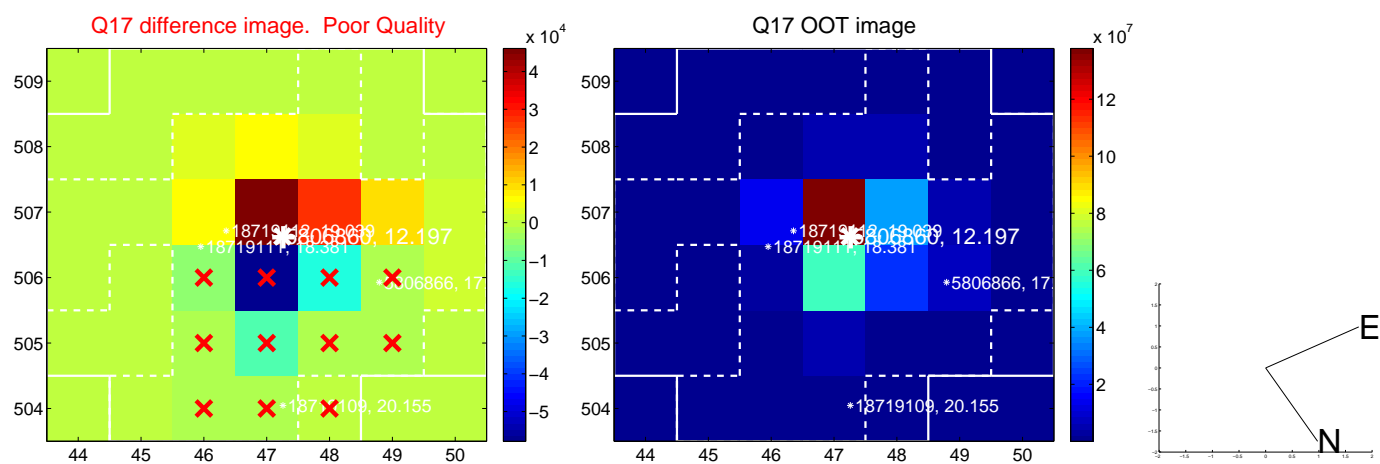
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

