

KIC 008888719

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})
008888719-01	OBS	No	3.034840	133.397197	4.7	13.407	8.0	7.7	2.35	9906	0.55	15581.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008888719-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

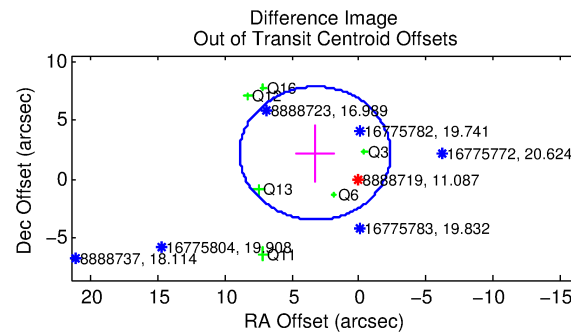
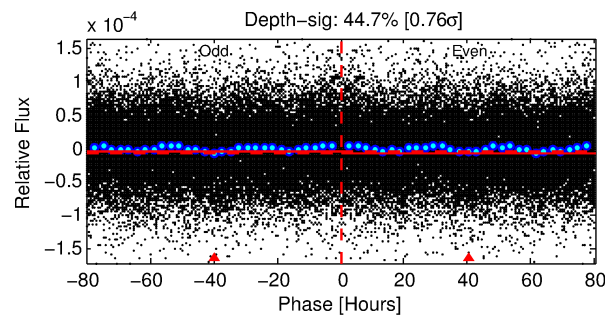
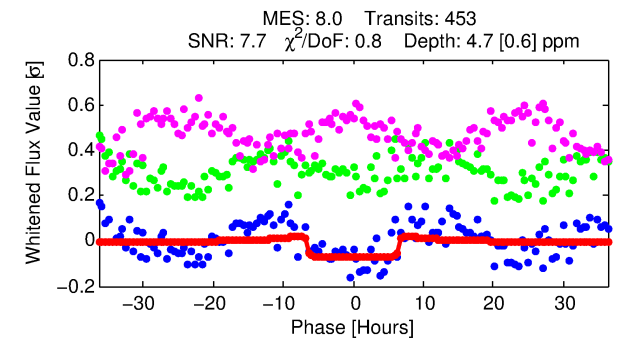
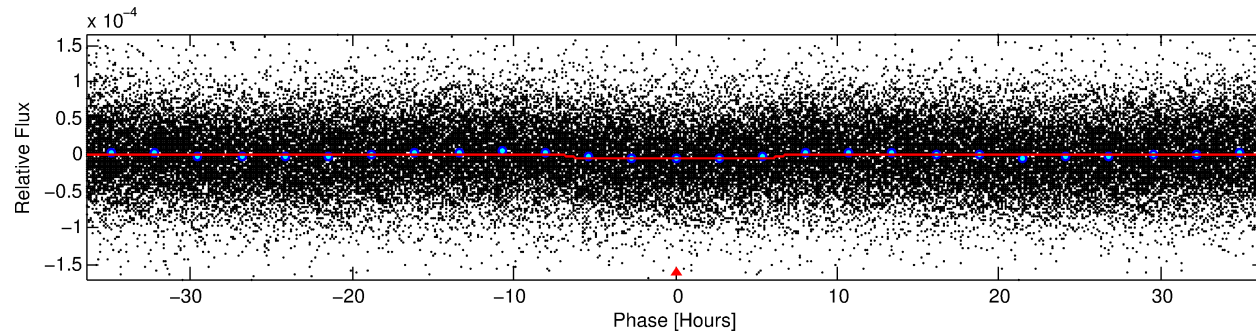
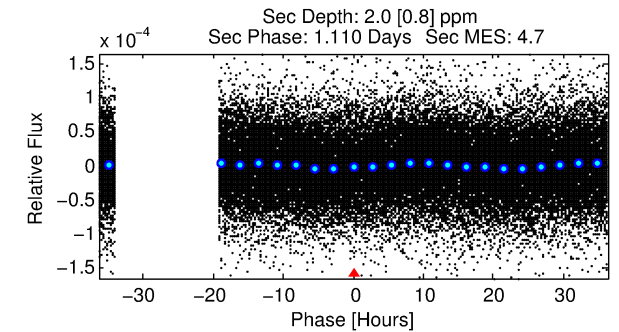
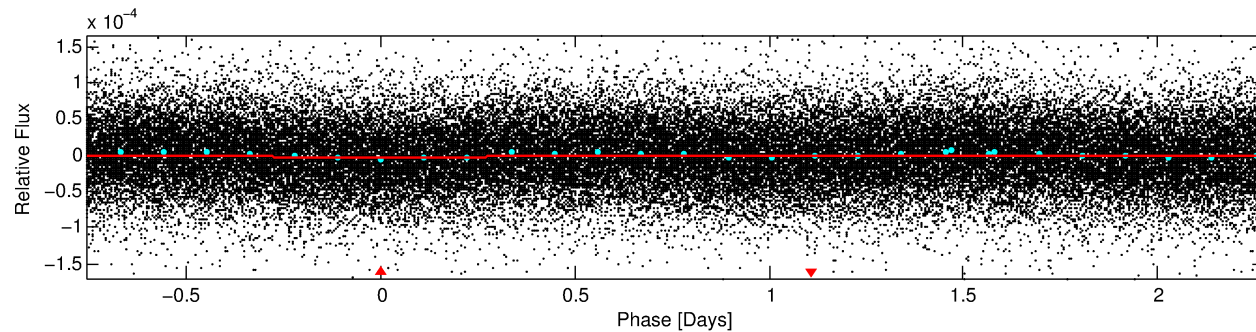
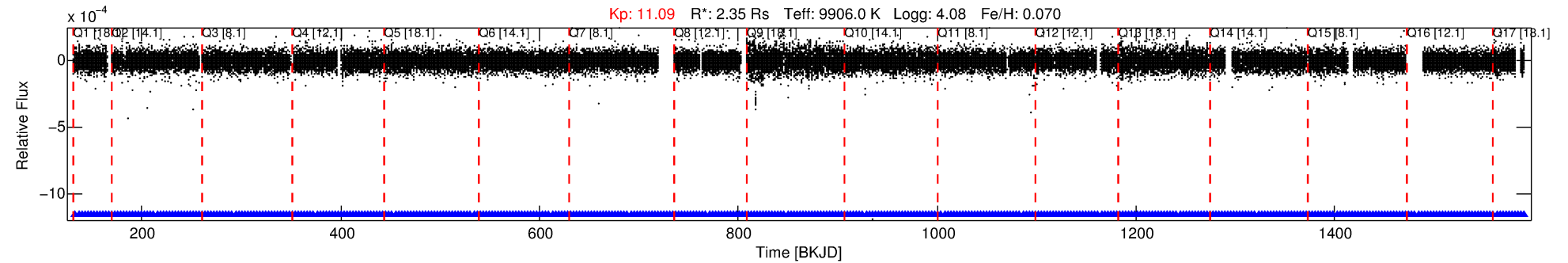
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008888719-01

No Significant Match Found

DV One-Page Summary

KIC: 8888719 Candidate: 1 of 1 Period: 3.035 d



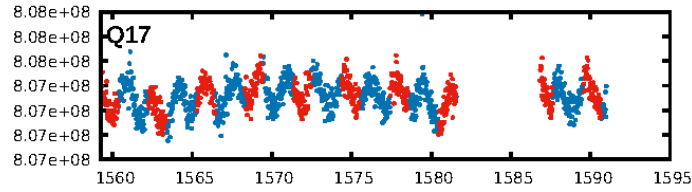
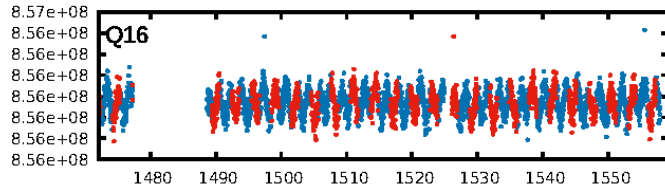
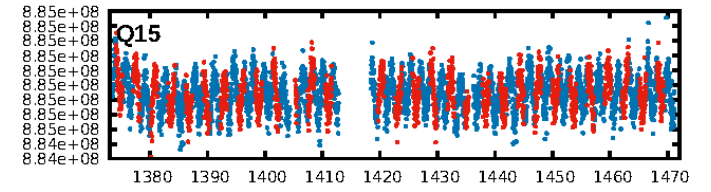
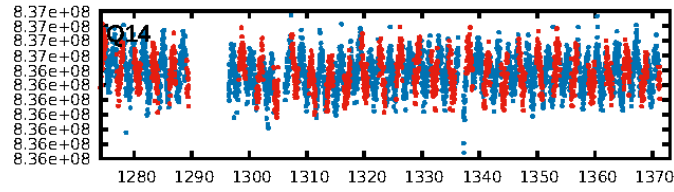
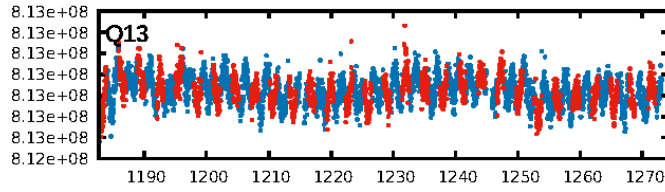
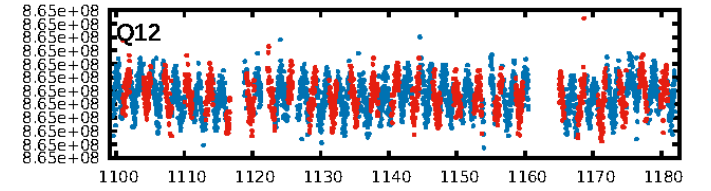
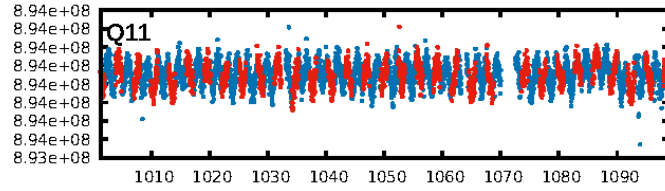
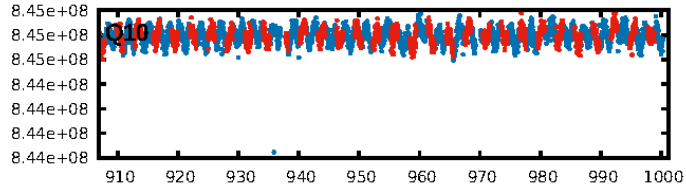
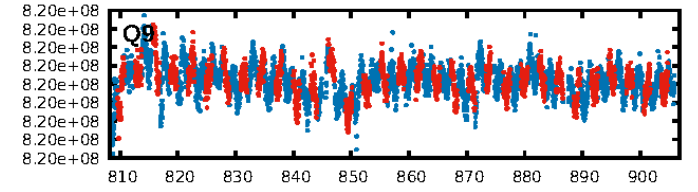
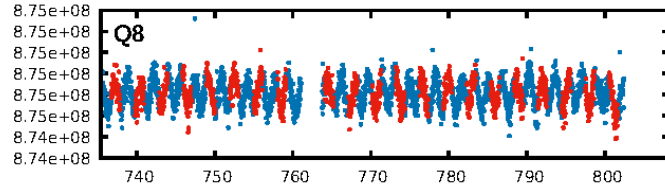
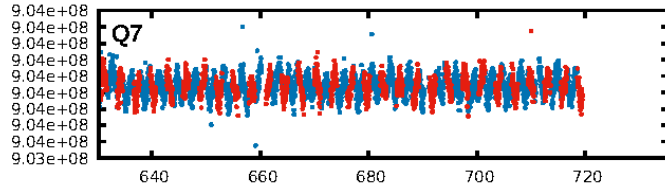
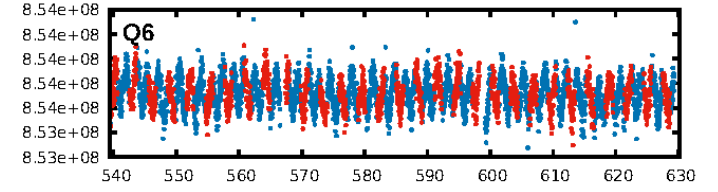
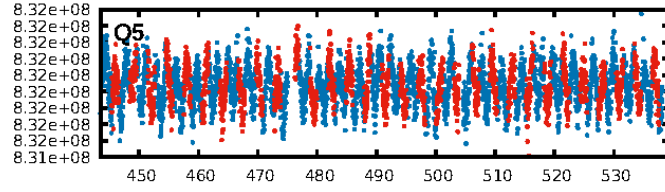
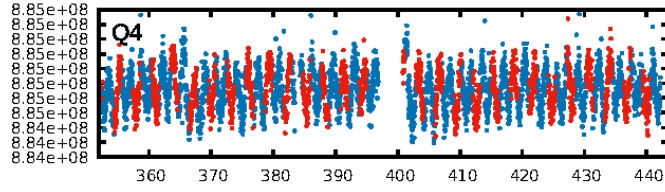
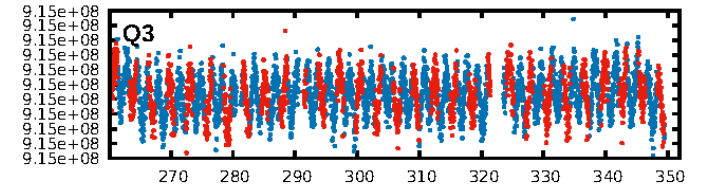
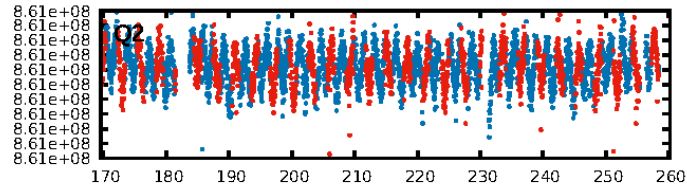
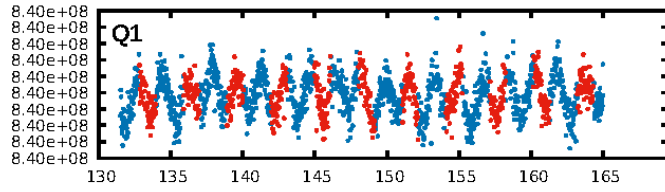
DV Fit Results:

Period = 3.03484 [0.00005] d
Epoch = 133.3972 [0.0106] BKJD
Rp/R* = 0.0021 [0.0003]
a/R* = 1.46 [0.57]
b = 0.72 [0.49]
Seff = 15581.10 [6879.63]
Teq = 2849 [314] K
Rp = 0.55 [0.22] Re
a = 0.0553 [0.0165] AU
Ag = 11.16 [7.00] [1.45σ]
Teffp = 8052 [1031] K [4.83σ]

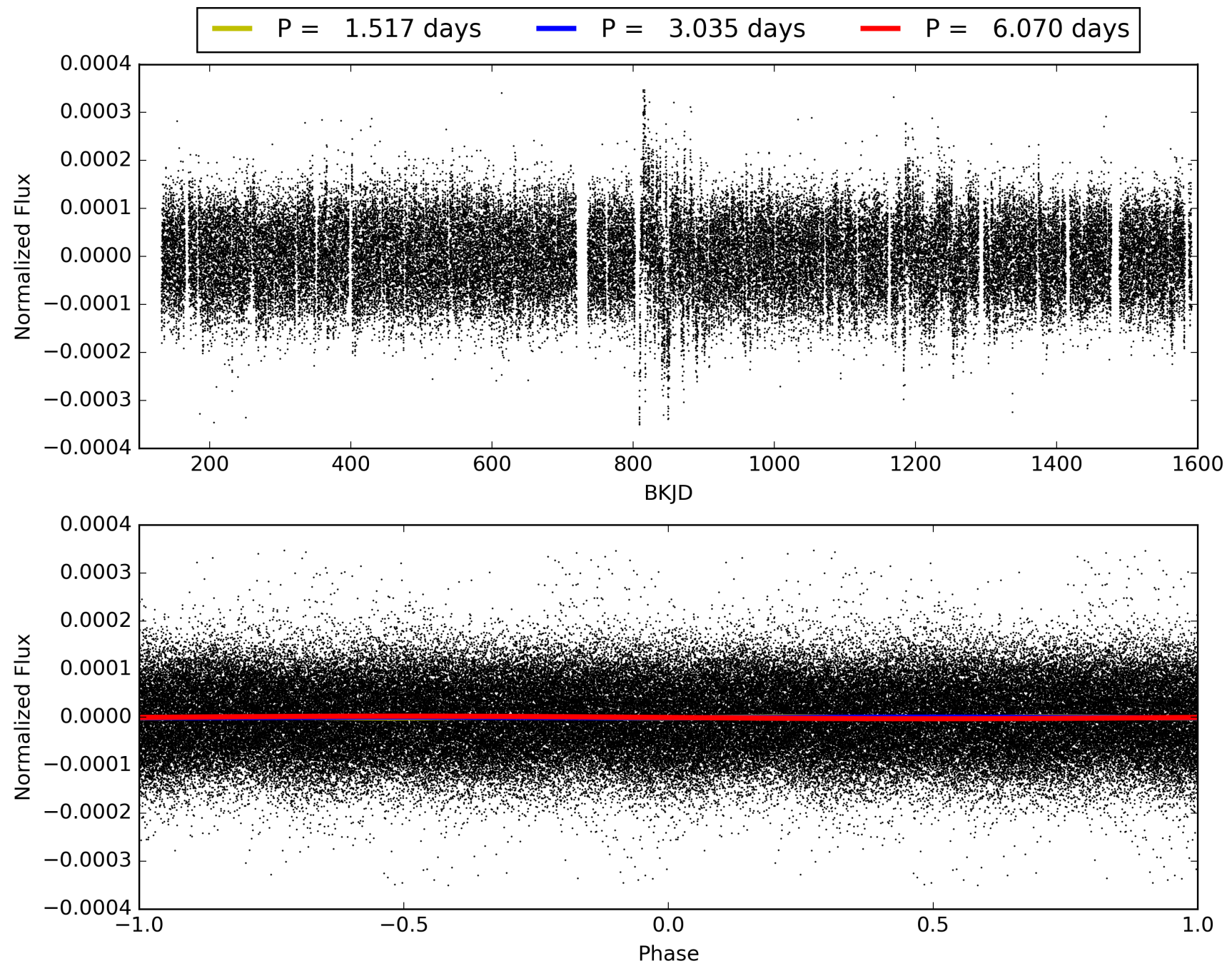
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.26e-13
RollingBand-fgt: 1.00 [432/432]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 3.949 arcsec [2.10σ]
KicOffset-rm: 4.207 arcsec [2.41σ]
OotOffset-st: 1/2/2/1 [6]
KicOffset-st: 1/2/2/1 [6]
DiffImageQuality-fgm: 0.00 [0/6]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 00888719-01, PDC Light Curves

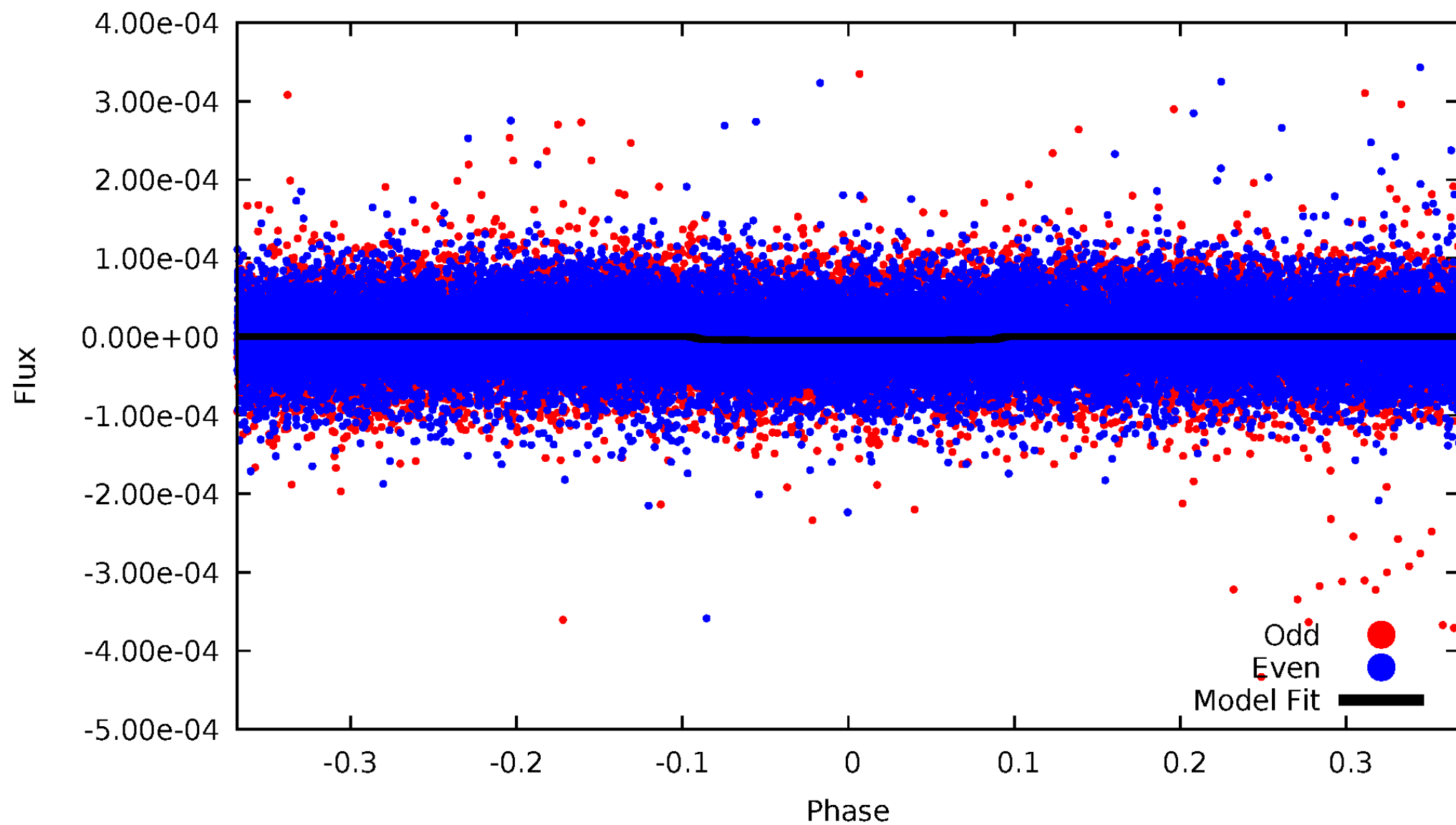


TCE 008888719-01



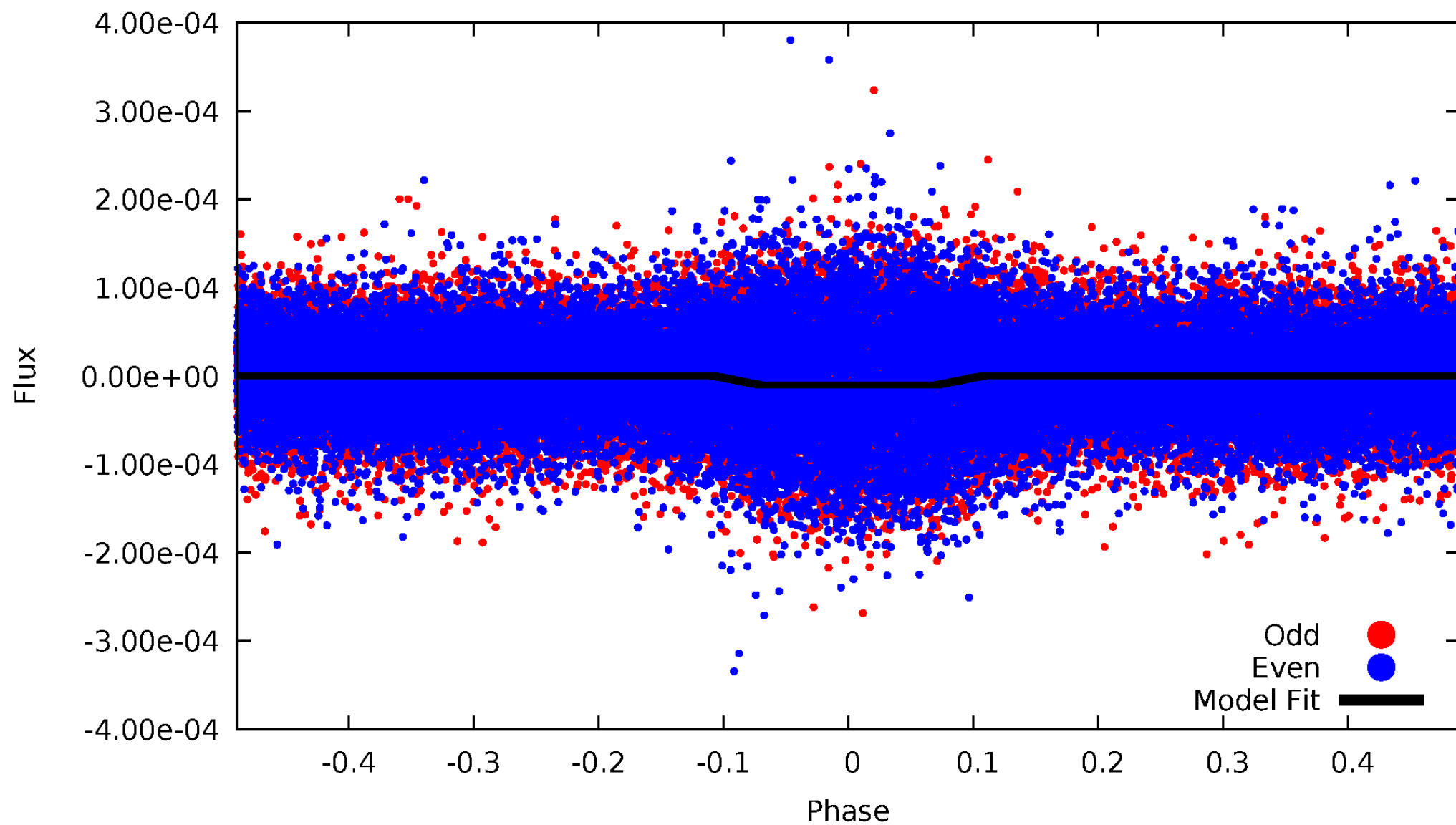
DV Odd/Even

TCE 008888719-01



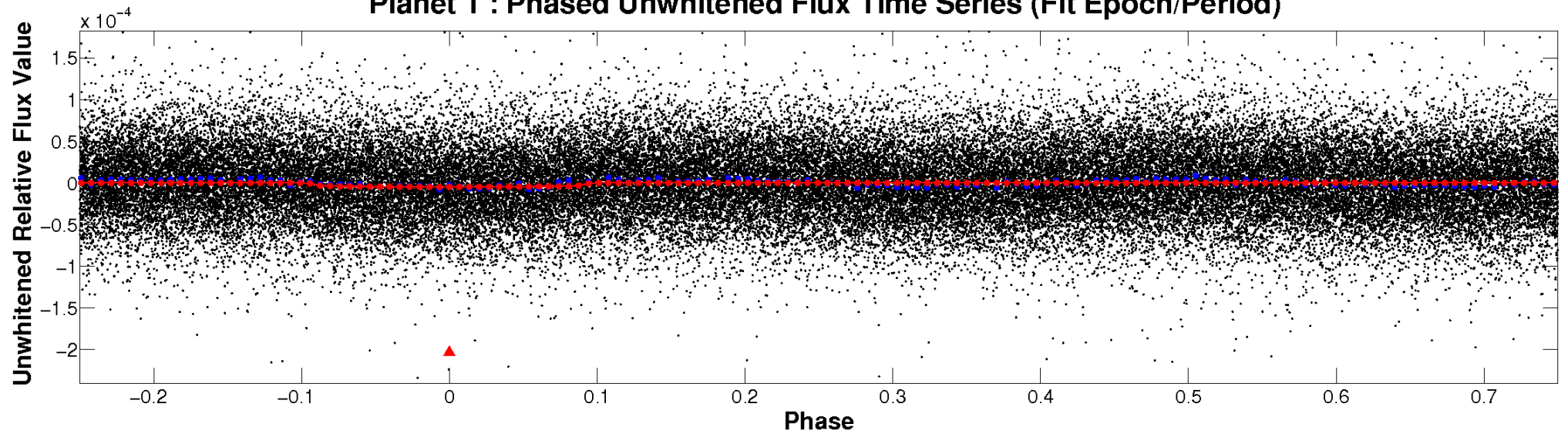
ALT Odd/Even

TCE 008888719-01

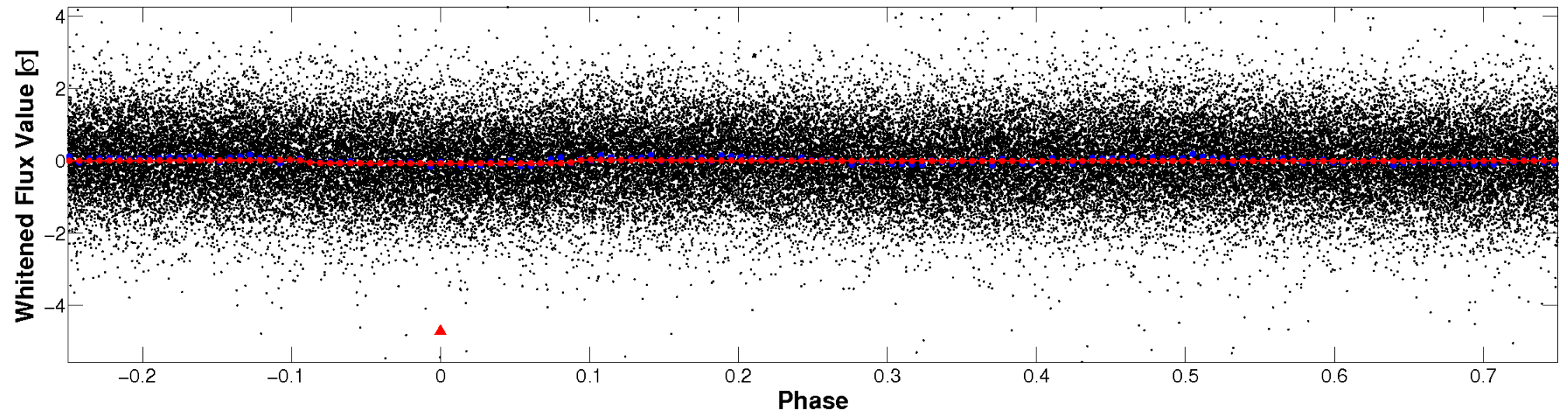


Non-Whitened Vs. Whitened Light Curve

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

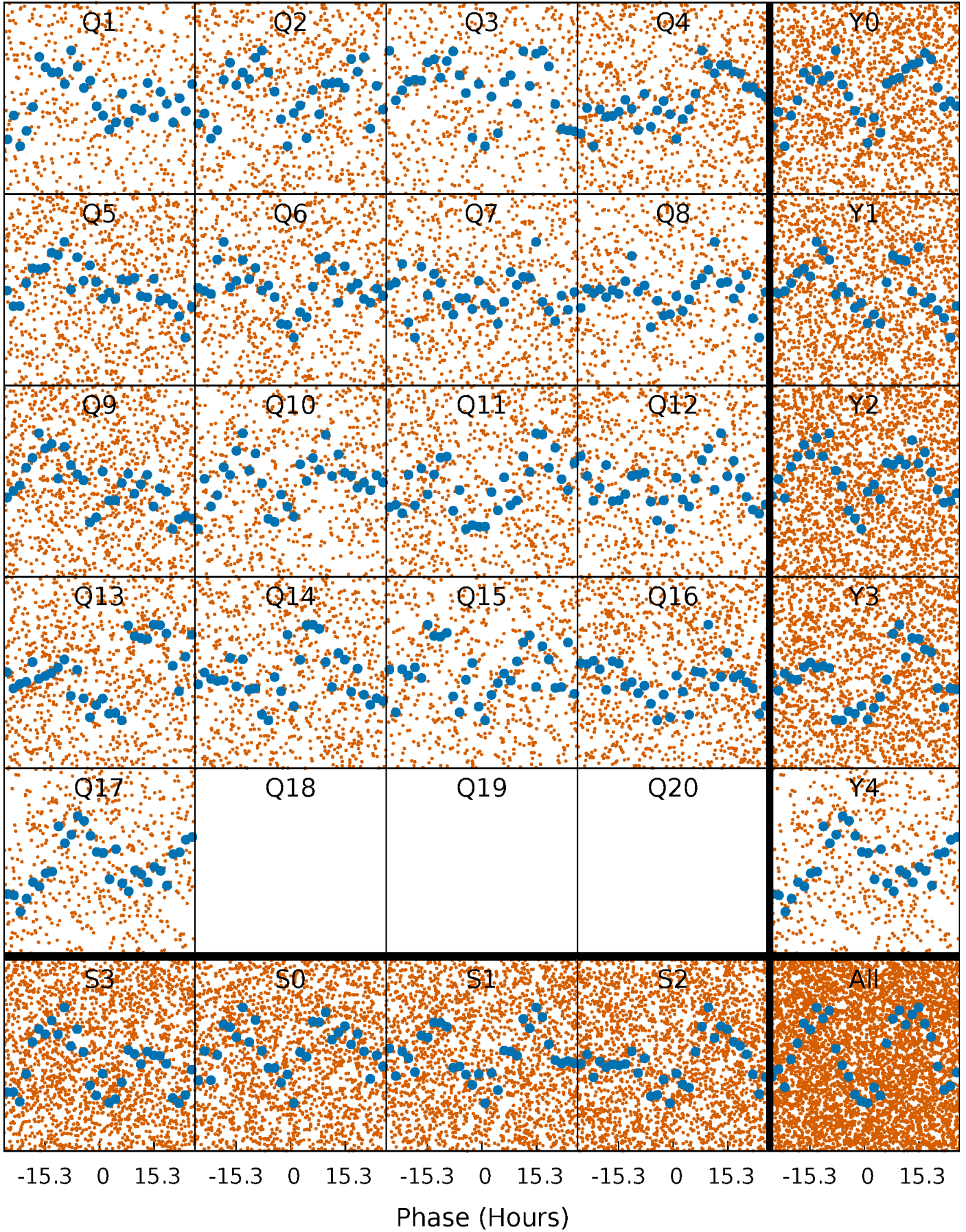


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



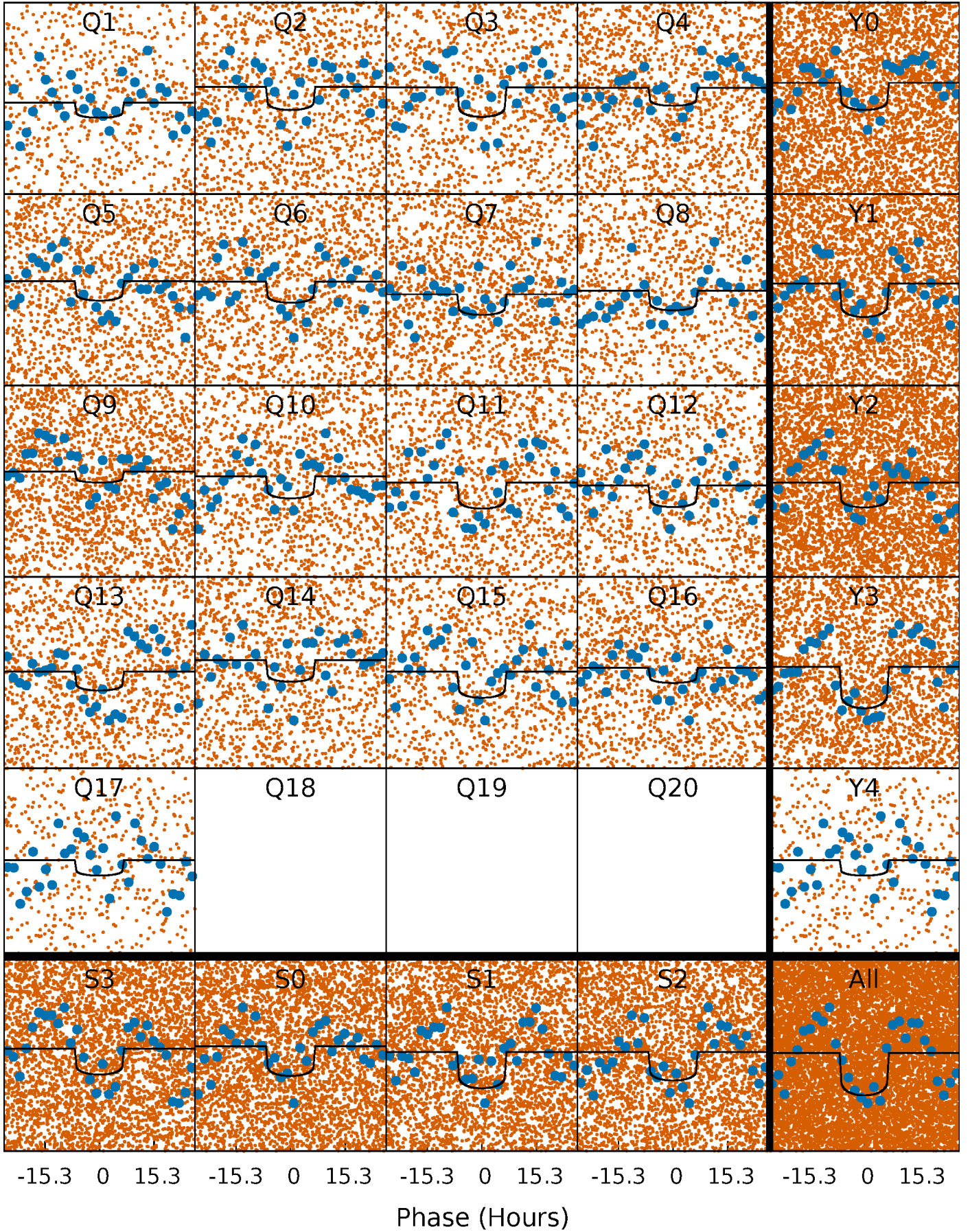
PDC Quarter-Phased Transit Curves

TCE 008888719-01 P= 3.034840 Days $T_0=133.397197$ (BKJD)



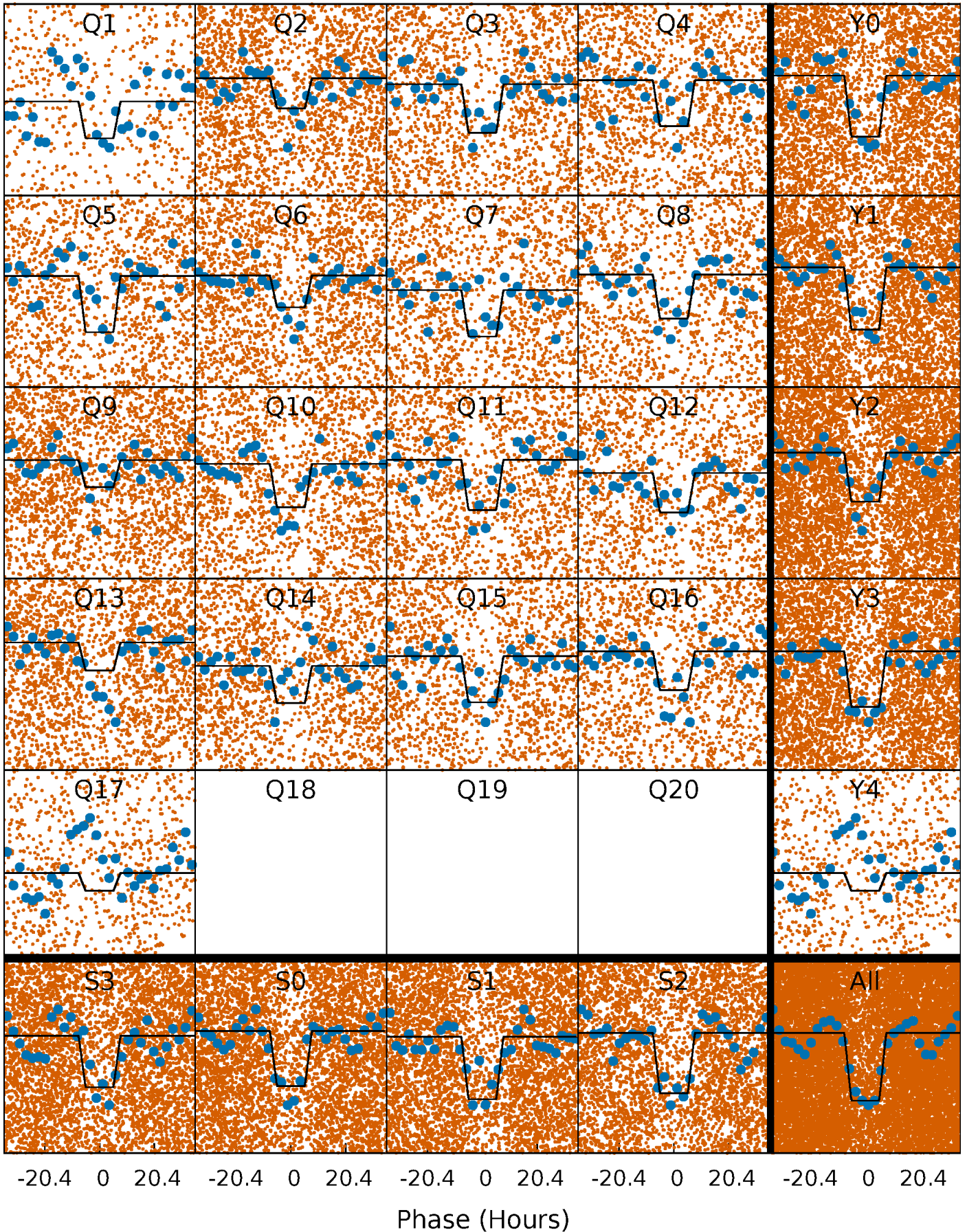
DV Quarter-Phased Transit Curves

TCE 008888719-01 P= 3.034840 Days $T_0=133.397197$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

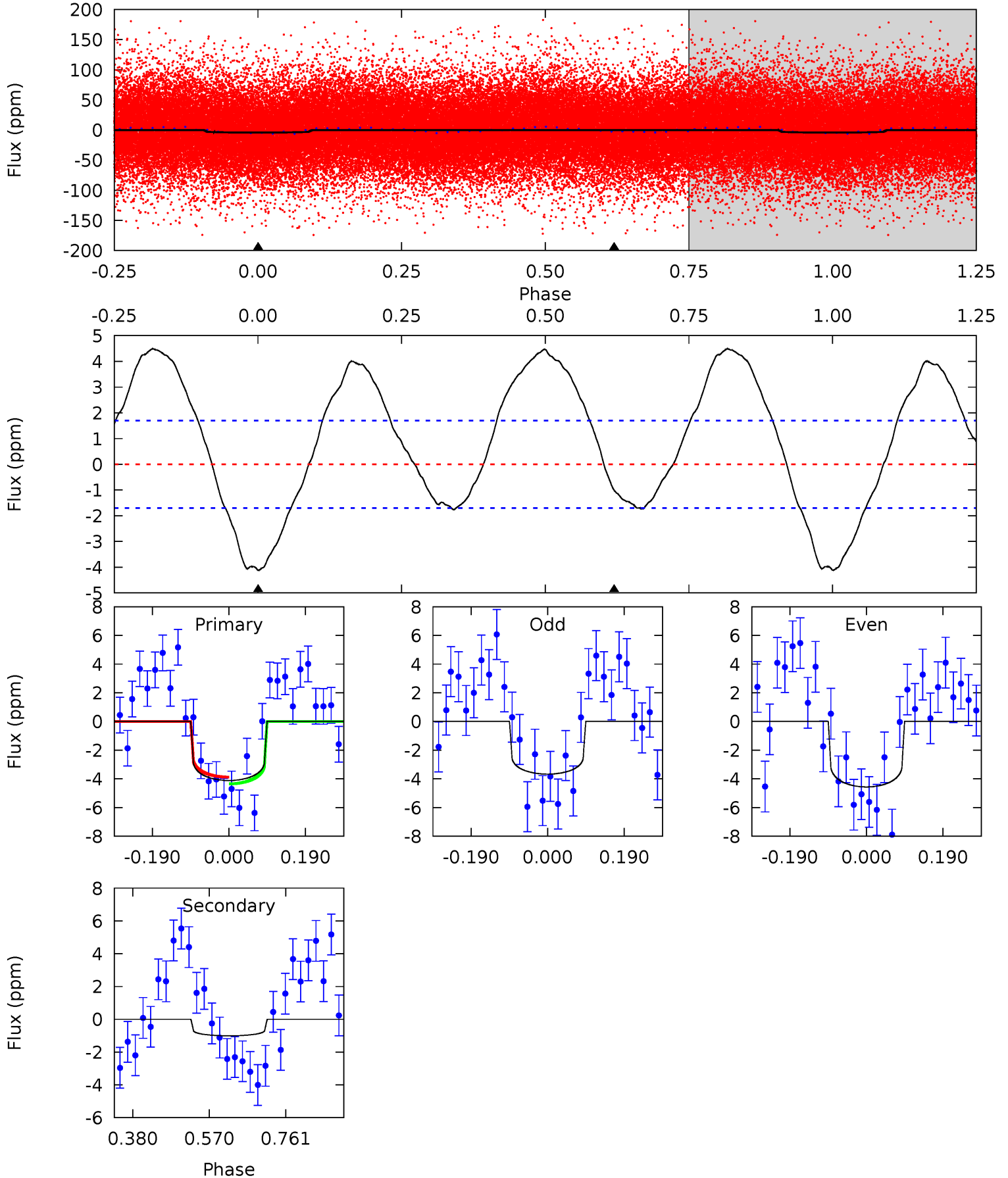
TCE 008888719-01 P= 3.034700 Days $T_0=133.419510$ (BKJD)



DV Model-Shift Uniqueness Test

008888719-01, P = 3.034840 Days, E = 130.362357 Days

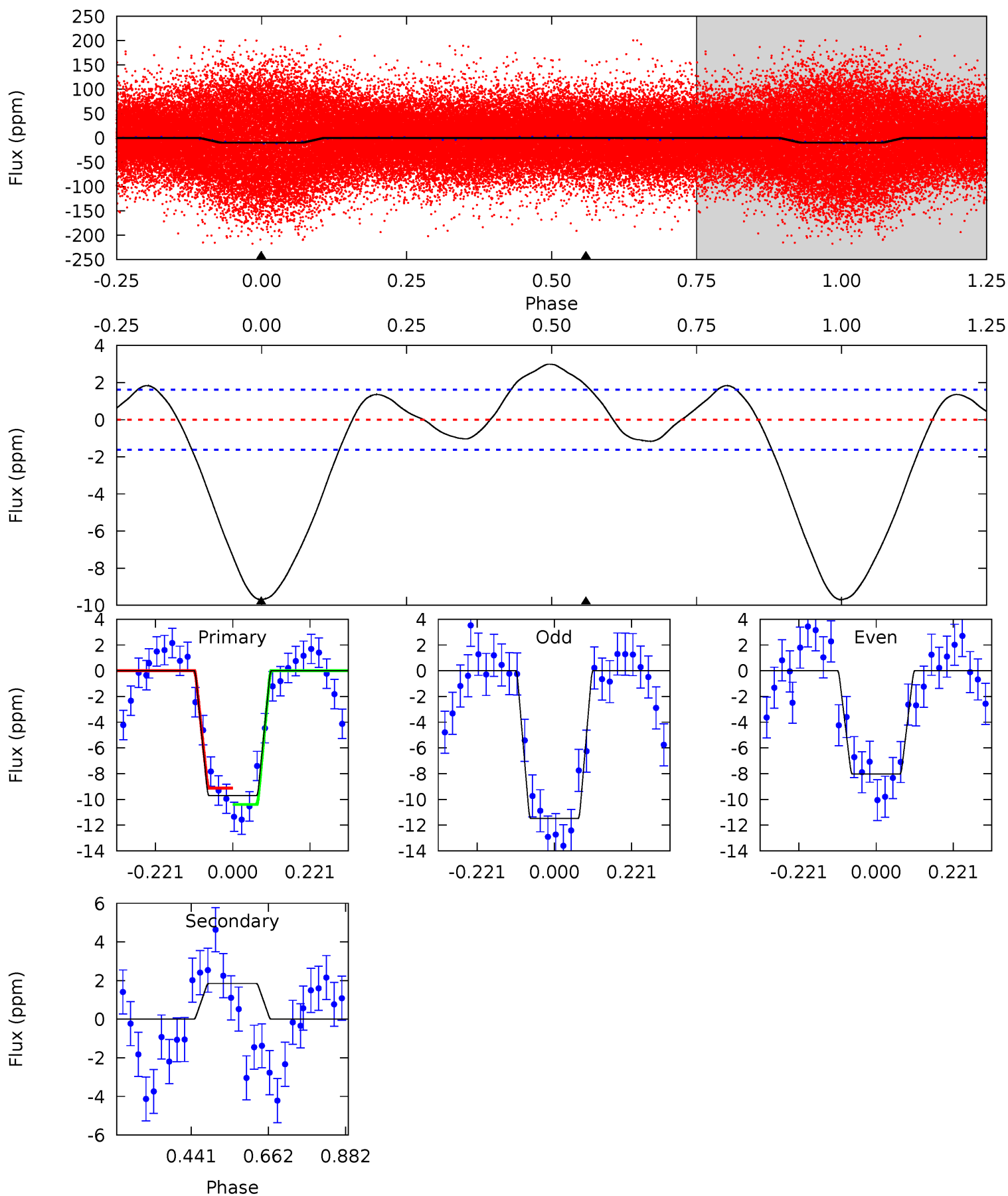
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	2.62	0	0	4.43	1.31	4.18	10.7	10.7	2.62	2.62	1.17	0.97	0.52	0.61



Alt Model-Shift Uniqueness Test

008888719-01, P = 3.034700 Days, E = 130.384810 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.3	-5.01	0	0	4.40	1.23	1.71	26.3	26.3	-5.01	-5.01	4.67	0.92	0.24	1.75



Stellar Parameters For KIC 008888719

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9906^{+308}_{-445}	$4.085^{+0.205}_{-0.205}$	$0.070^{+0.150}_{-0.600}$	$2.352^{+0.890}_{-0.728}$	$2.452^{+0.367}_{-0.630}$	$0.266^{+0.351}_{-0.153}$
	+3%/-4%	+5%/-5%	+214%/-857%	+38%/-31%	+15%/-26%	+132%/-58%
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 008888719-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1 ± 0	$0.54^{+0.13}_{-0.10}$	3960^{+368}_{-319}	6181^{+765}_{-829}	$5.755^{+3.903}_{-2.806}$
Alt.	2 ± 0	$0.80^{+0.17}_{-0.13}$	3962^{+352}_{-316}	-6035^{+392}_{-421}	$-4.619^{+1.565}_{-2.194}$

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 $A_{\text{obs}} \gg 1.0$

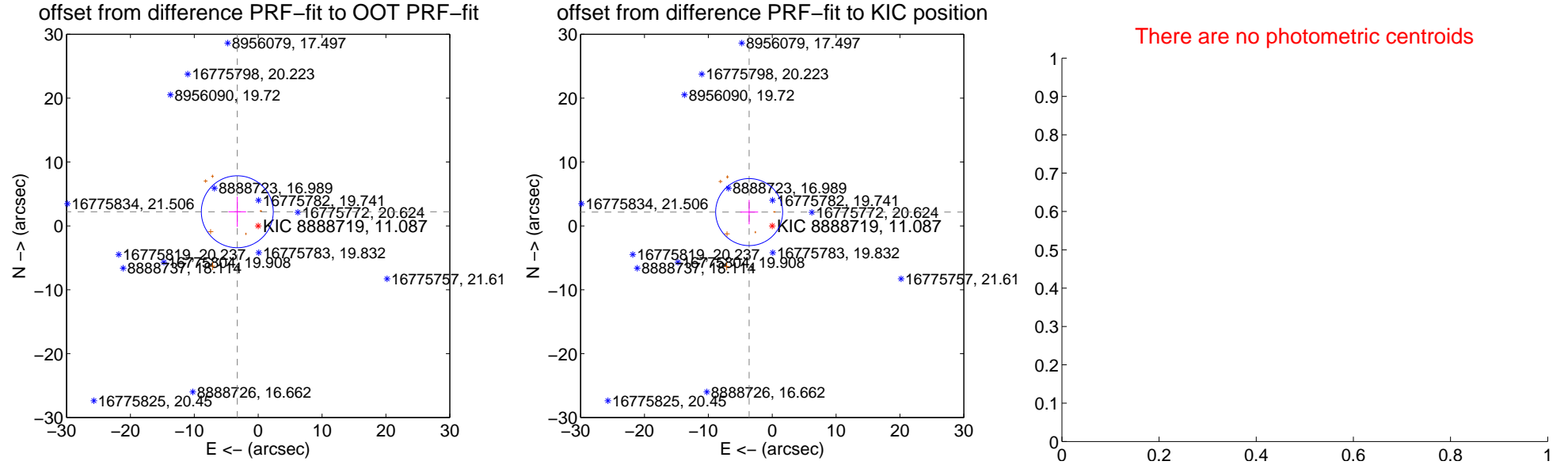
DV Centroid Data

Supplemental centroid analysis for 008888719-01. **Kepler magnitude: 11.09.** Transit SNR 7.65

There are 0 quarters with good PRF difference image offsets

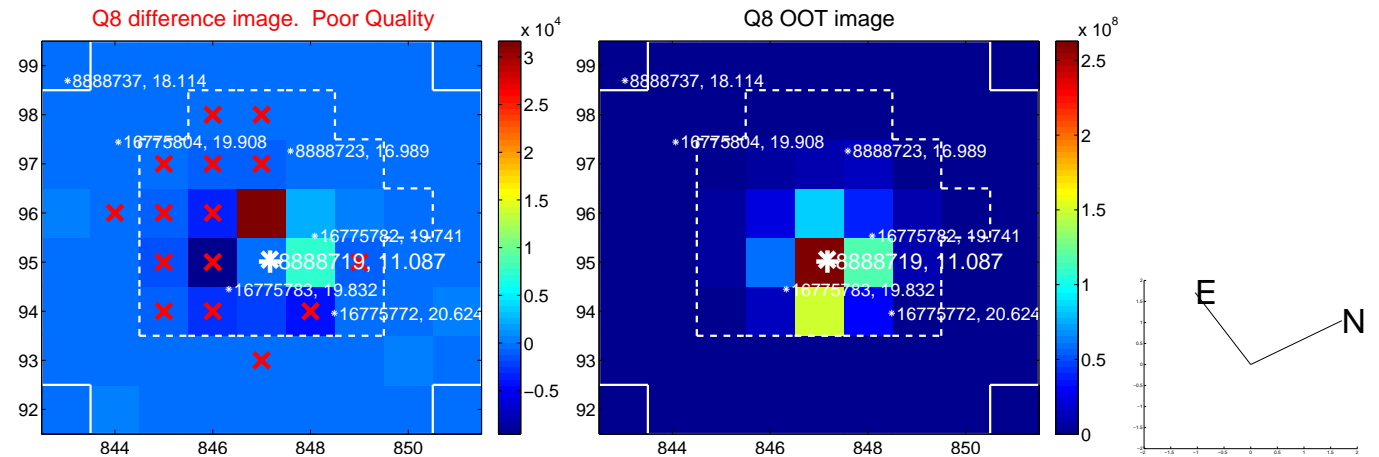
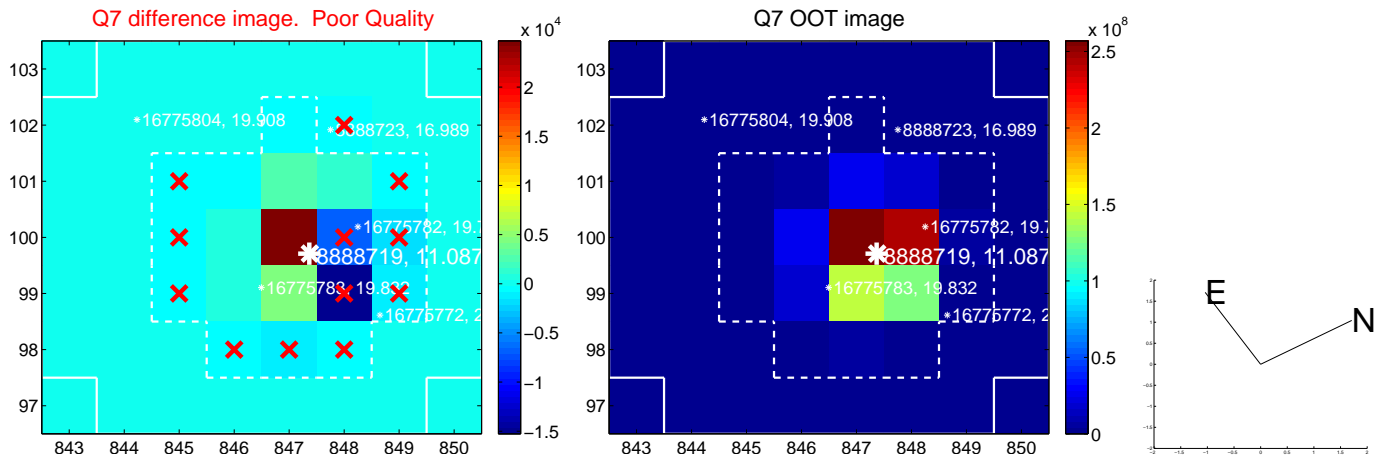
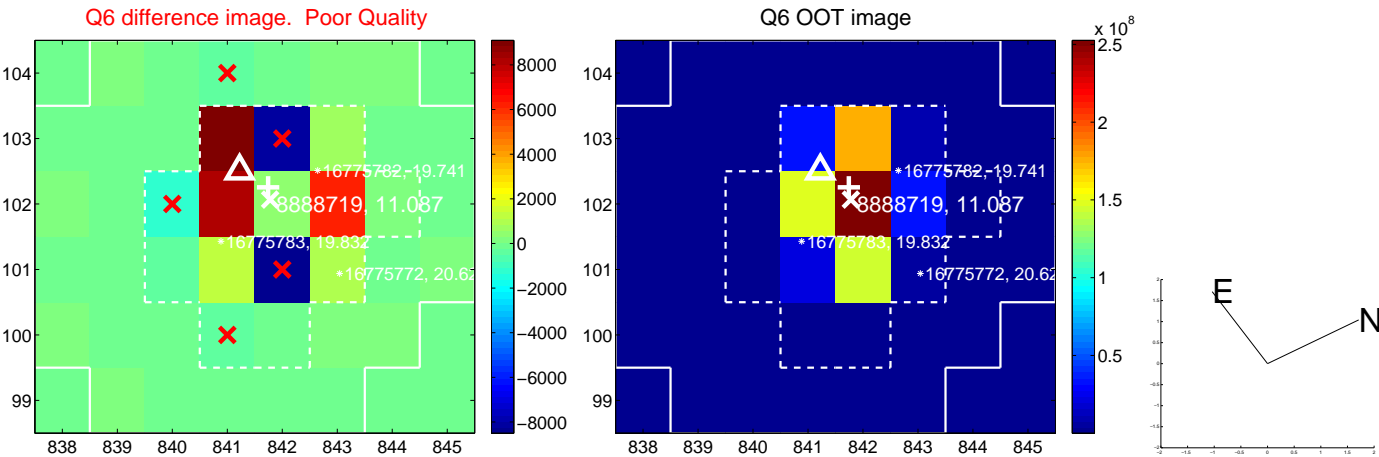
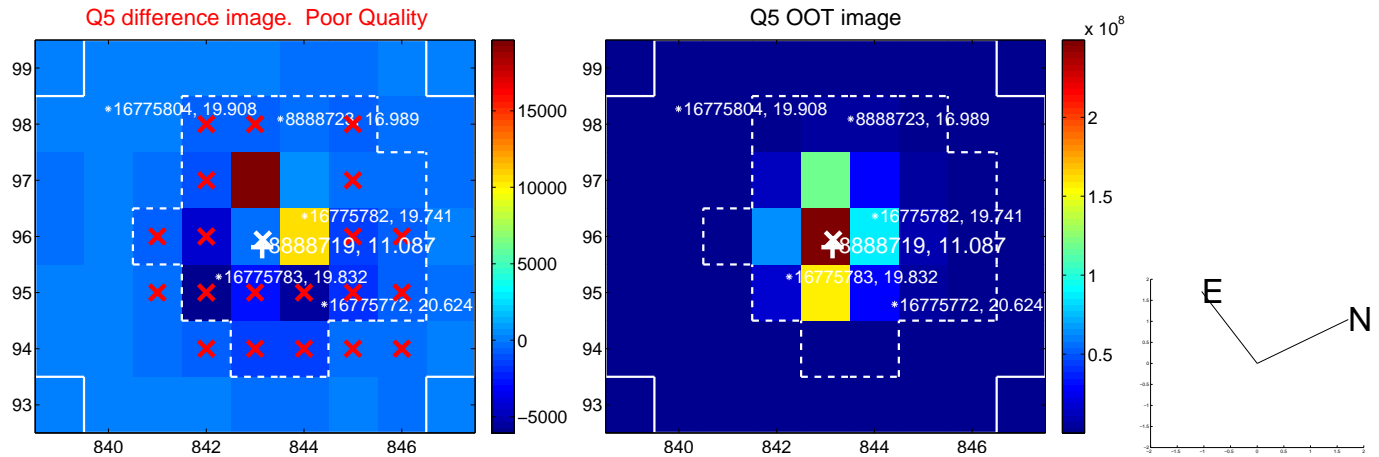
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.949 ± 1.877	2.10	3.271 ± 1.375	2.214 ± 2.363
PRF-fit source offset from KIC position	4.207 ± 1.749	2.41	3.610 ± 1.395	2.161 ± 1.910
photometric centroid source offset	—	—	—	—

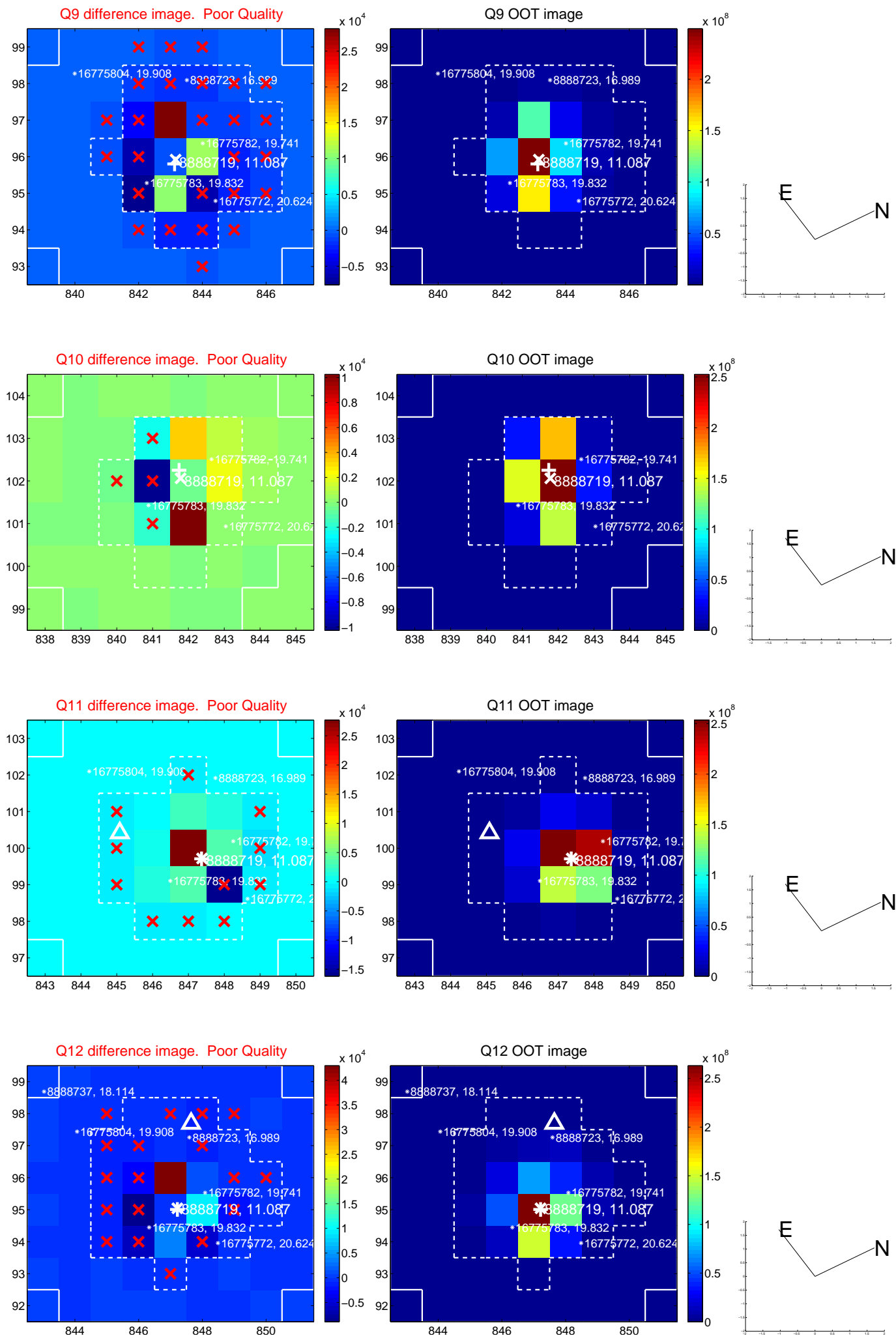


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

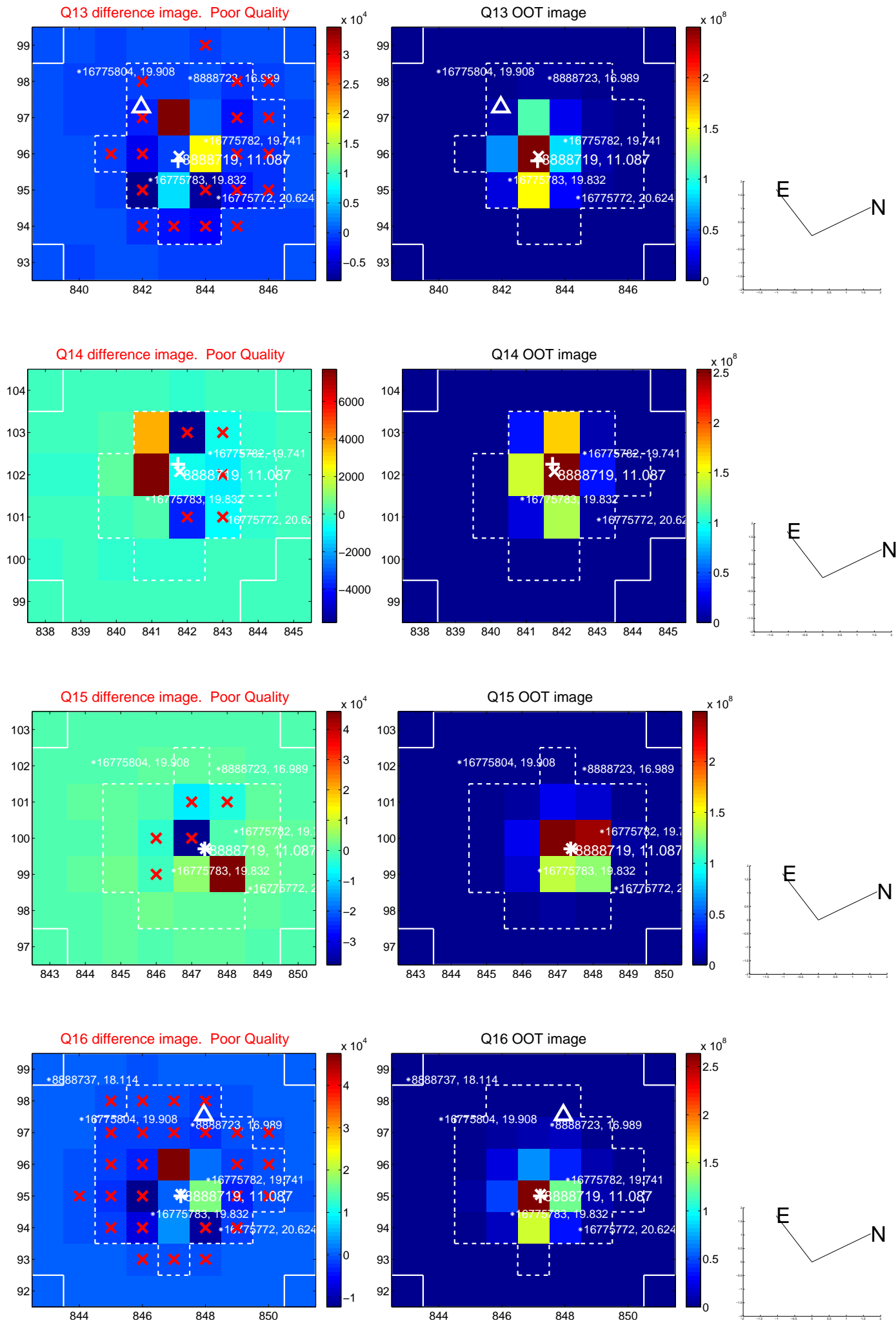
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



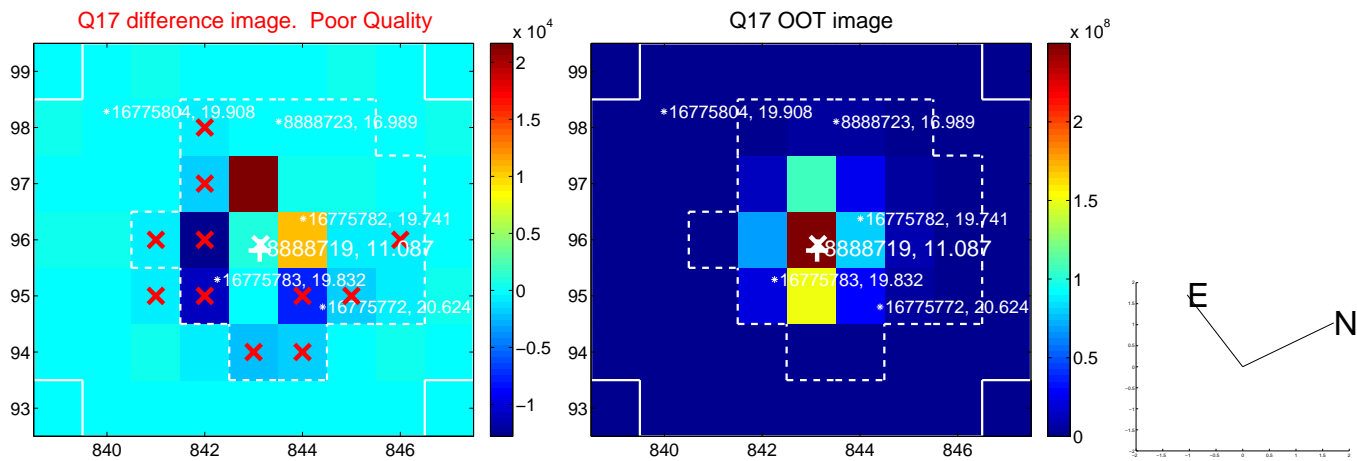
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

