

KIC 006669717

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})
006669717-01	OBS	No	0.733672	132.084533	4.6	4.367	7.3	2.1	0.74	5147	0.17	1699.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006669717-01	OBS	FP	0.00	1	0	0	0	LPP_DV

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

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

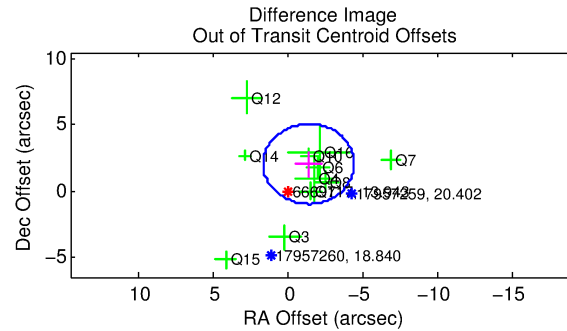
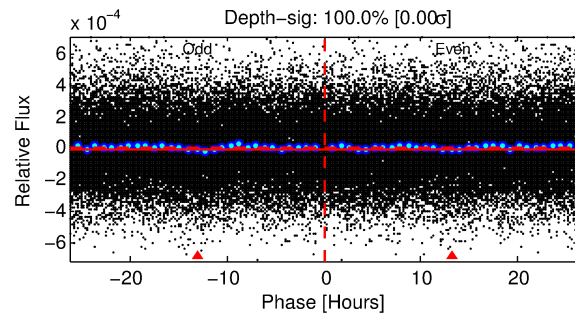
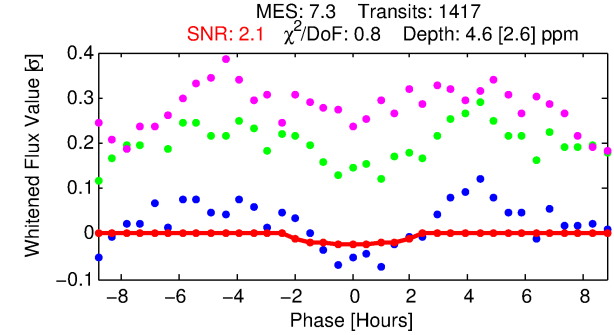
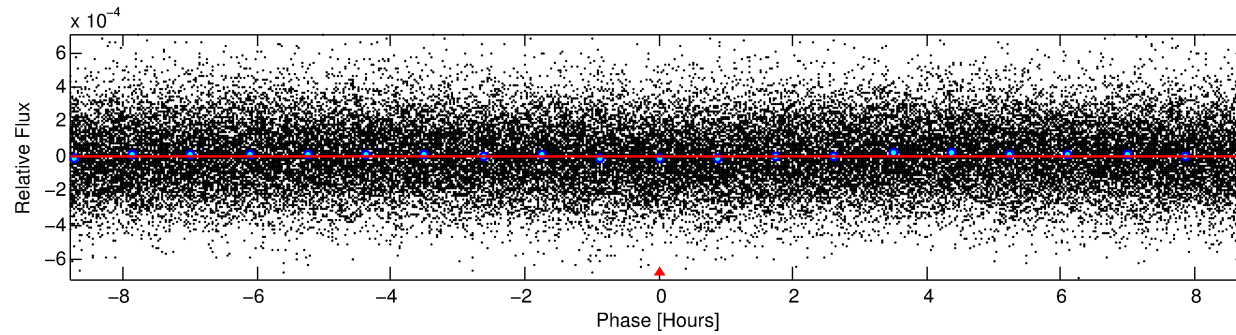
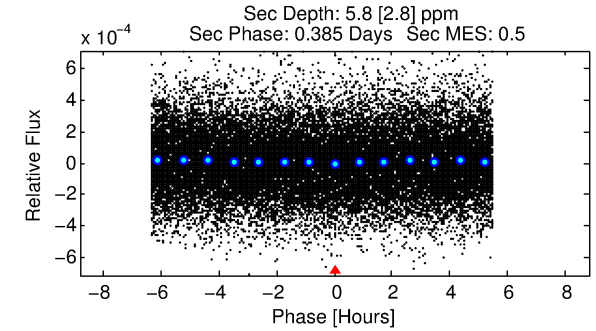
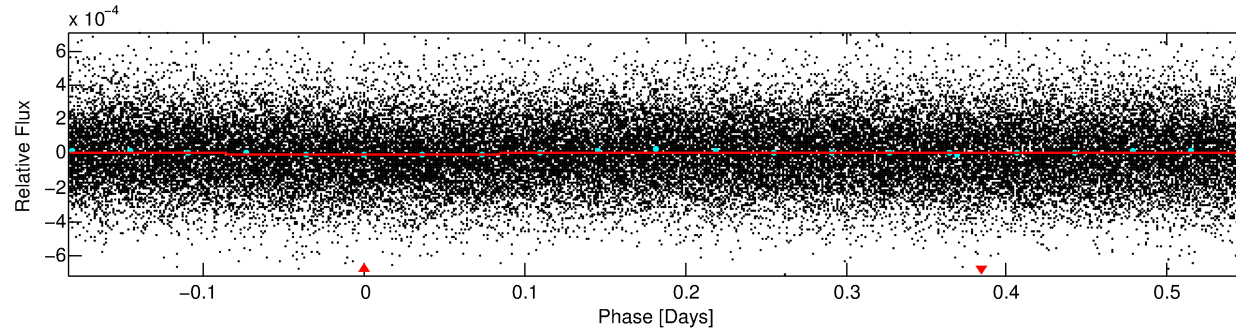
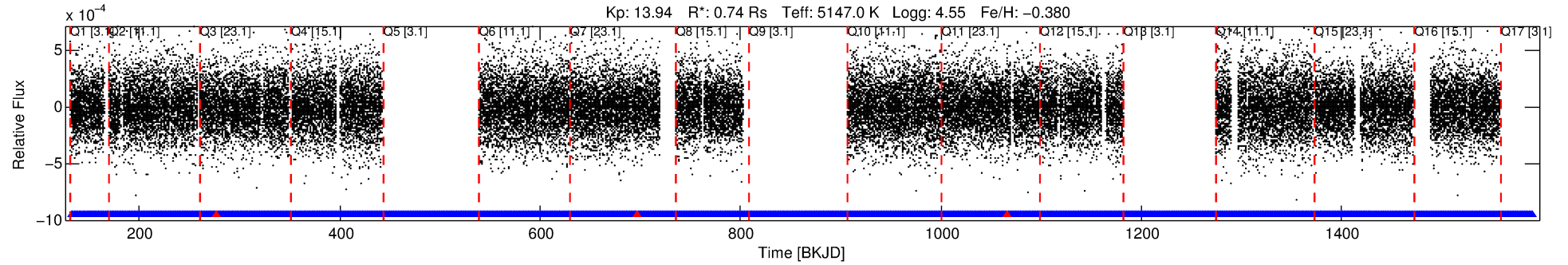
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006669717-01

No Significant Match Found

DV One-Page Summary

KIC: 6669717 Candidate: 1 of 1 Period: 0.734 d



DV Fit Results:

Period = 0.73367 [0.00005] d
Epoch = 132.0845 [0.0238] BKJD
Rp/R* = 0.0021 [0.0032]
a/R* = 1.24 [2.48]
b = 0.70 [4.29]
Seff = 1699.65 [312.74]
Teff = 1637 [75] K
Rp = 0.17 [0.25] Re
a = 0.0142 [0.0013] AU
Ag = 22.73 [69.67] [0.31σ]
Teffp = 5527 [4233] K [0.92σ]

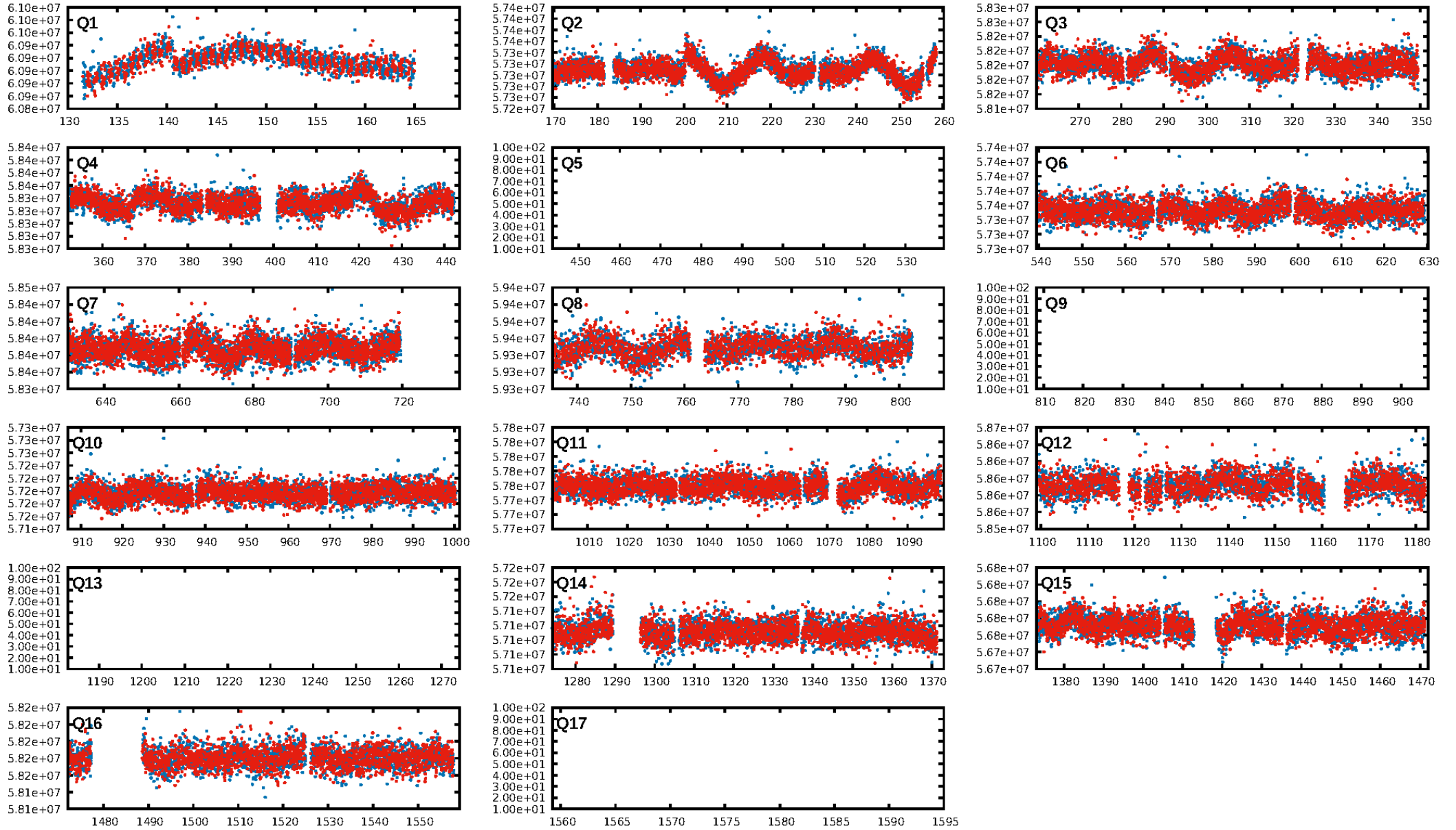
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.36e-09
RollingBand-fgt: 1.00 [1369/1372]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.498 arcsec [2.47σ]
KicOffset-rm: 2.470 arcsec [2.56σ]
OotOffset-st: 3/4/4/0 [11]
KicOffset-st: 3/4/4/0 [11]
DiffImageQuality-fgm: 0.18 [2/11]
DiffImageOverlap-fno: 1.00 [13/13]

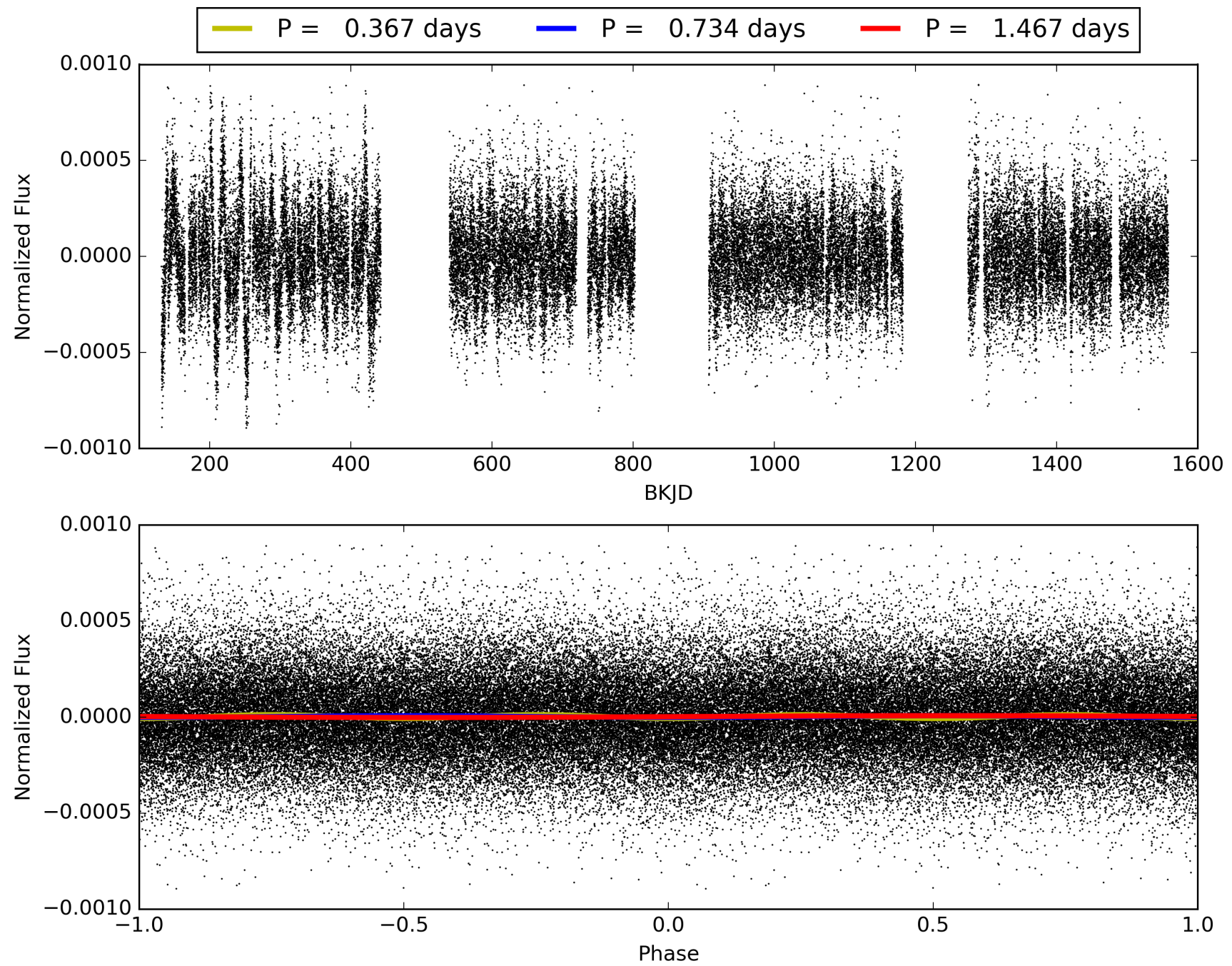
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 01:28:57 Z

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

TCE 006669717-01, PDC Light Curves

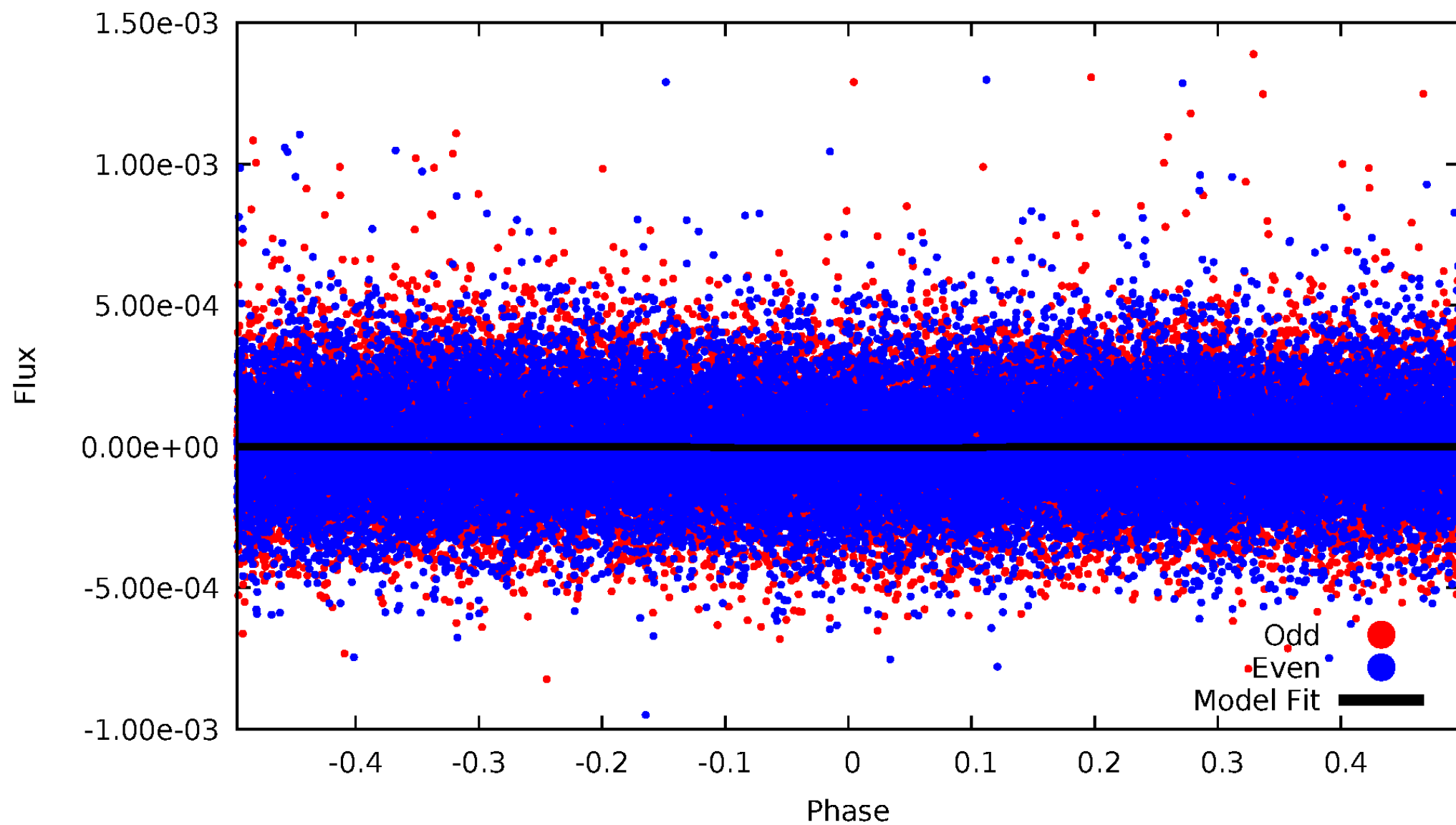


TCE 006669717-01



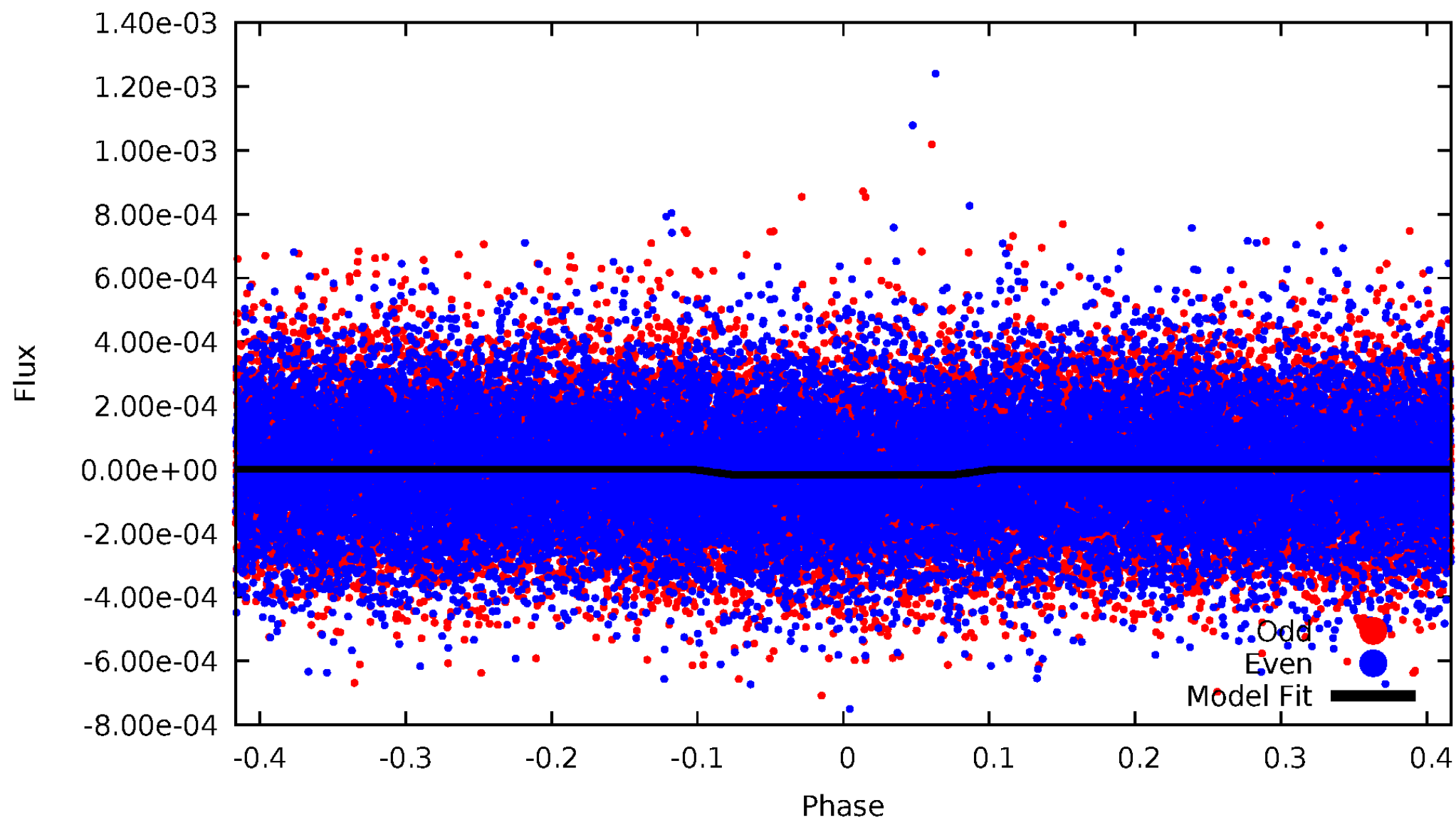
DV Odd/Even

TCE 006669717-01



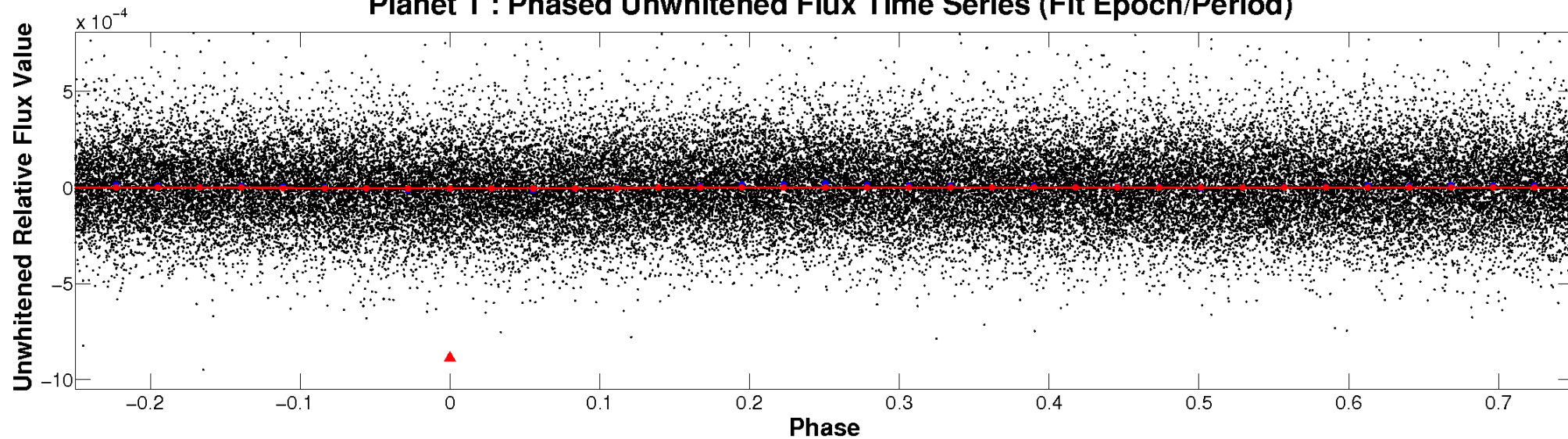
ALT Odd/Even

TCE 006669717-01

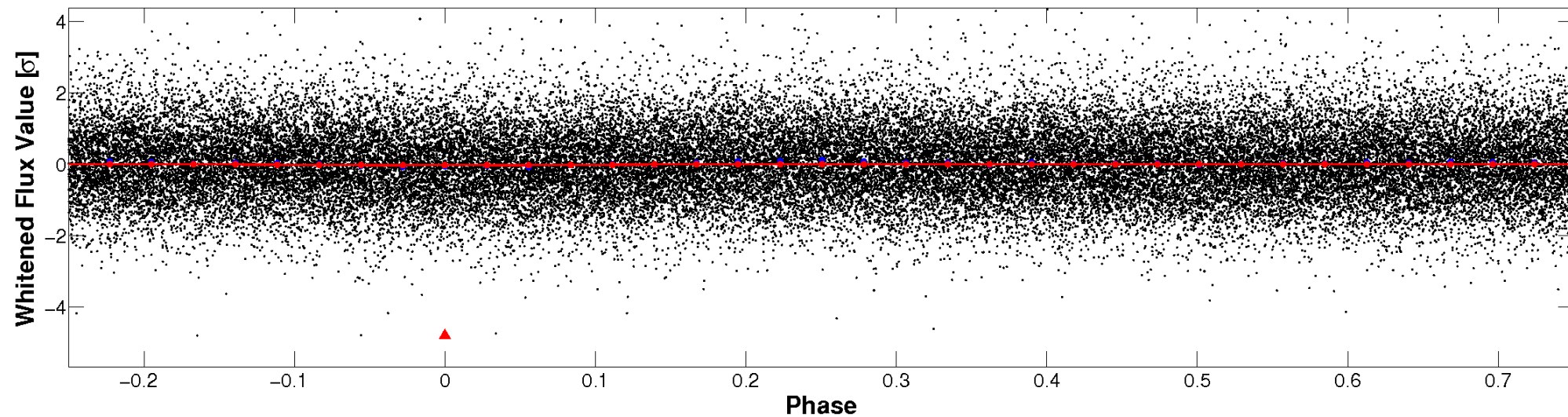


Non-Whitened Vs. Whitened Light Curve

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

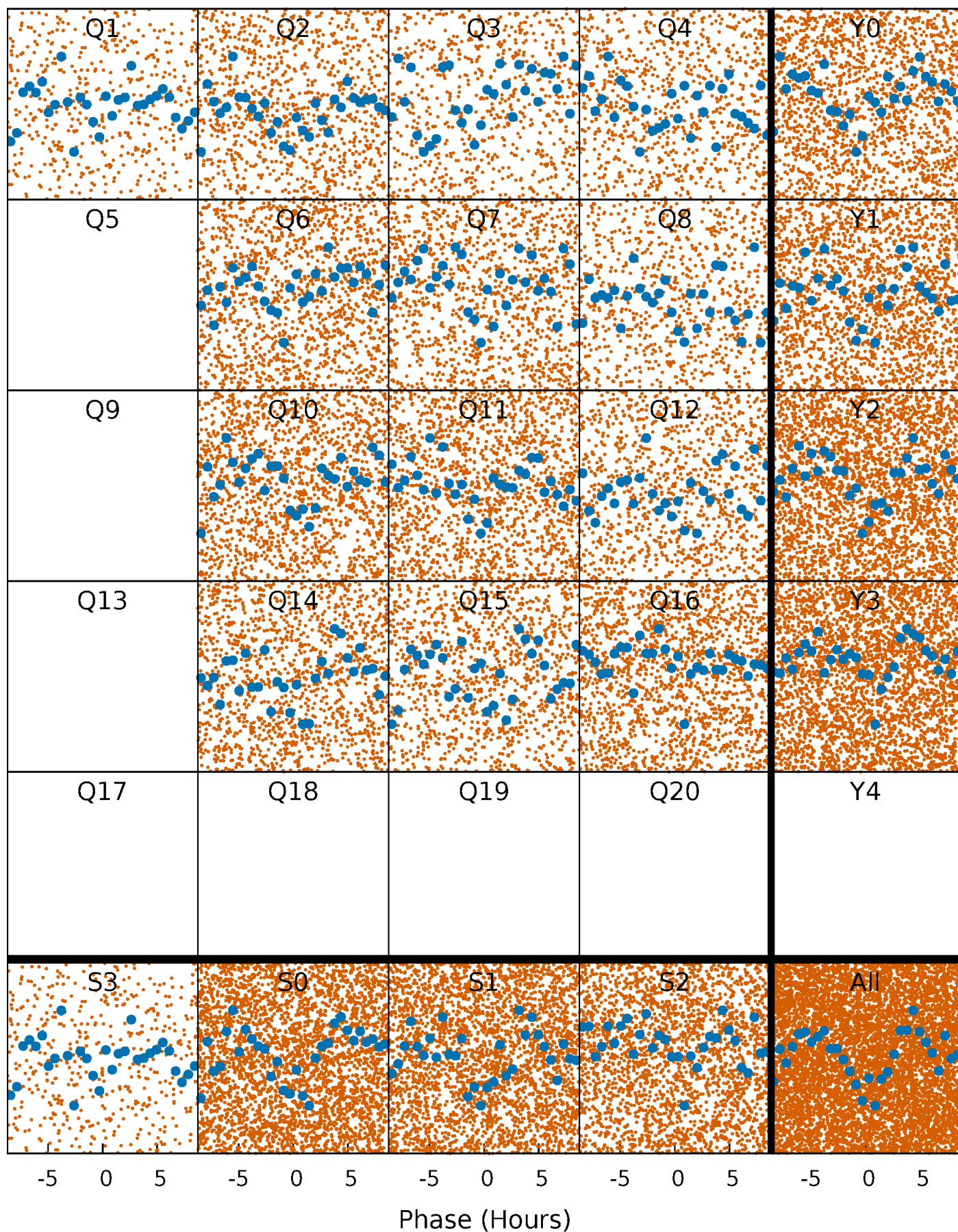


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



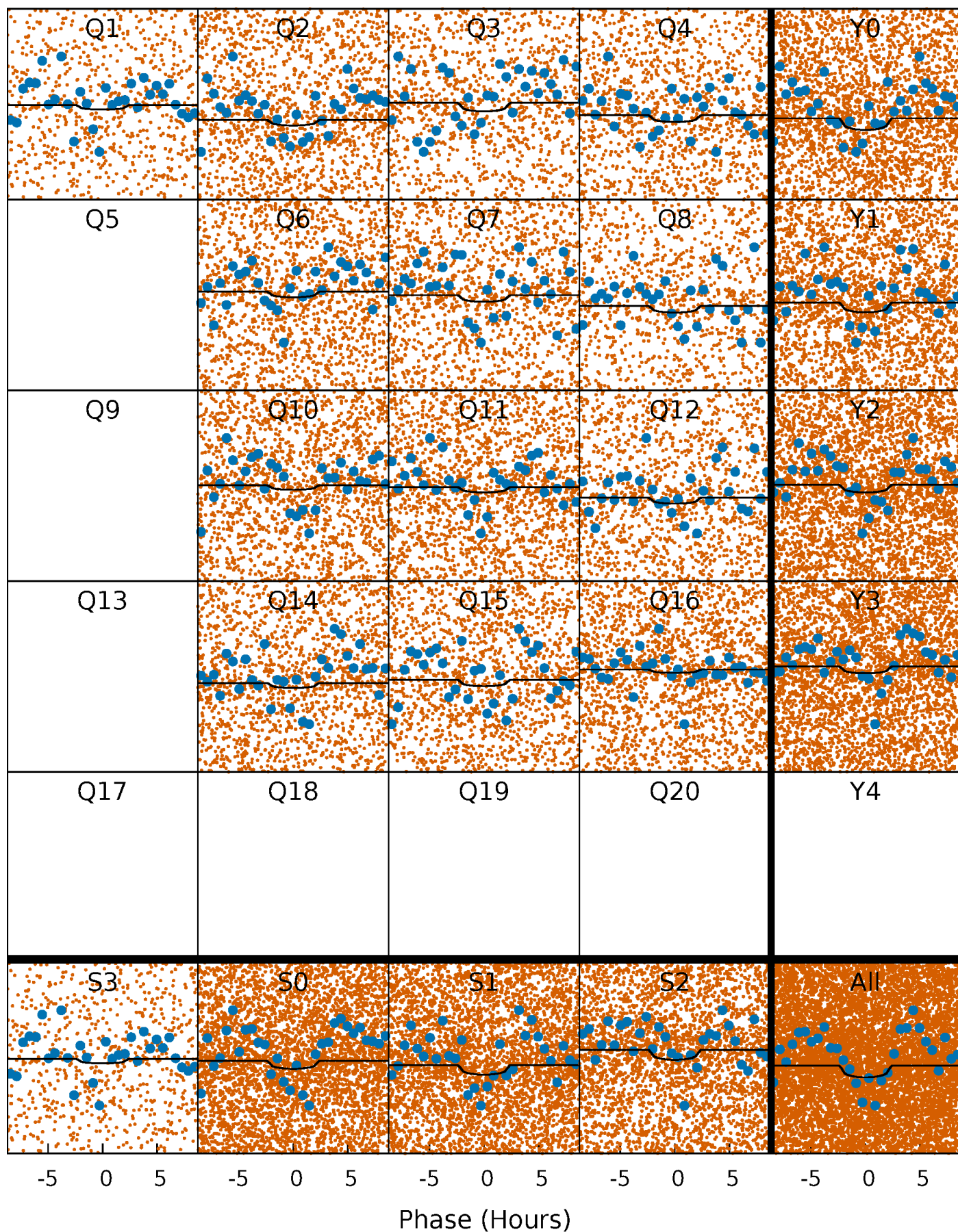
PDC Quarter-Phased Transit Curves

TCE 006669717-01 P= 0.733672 Days $T_0=132.084533$ (BKJD)



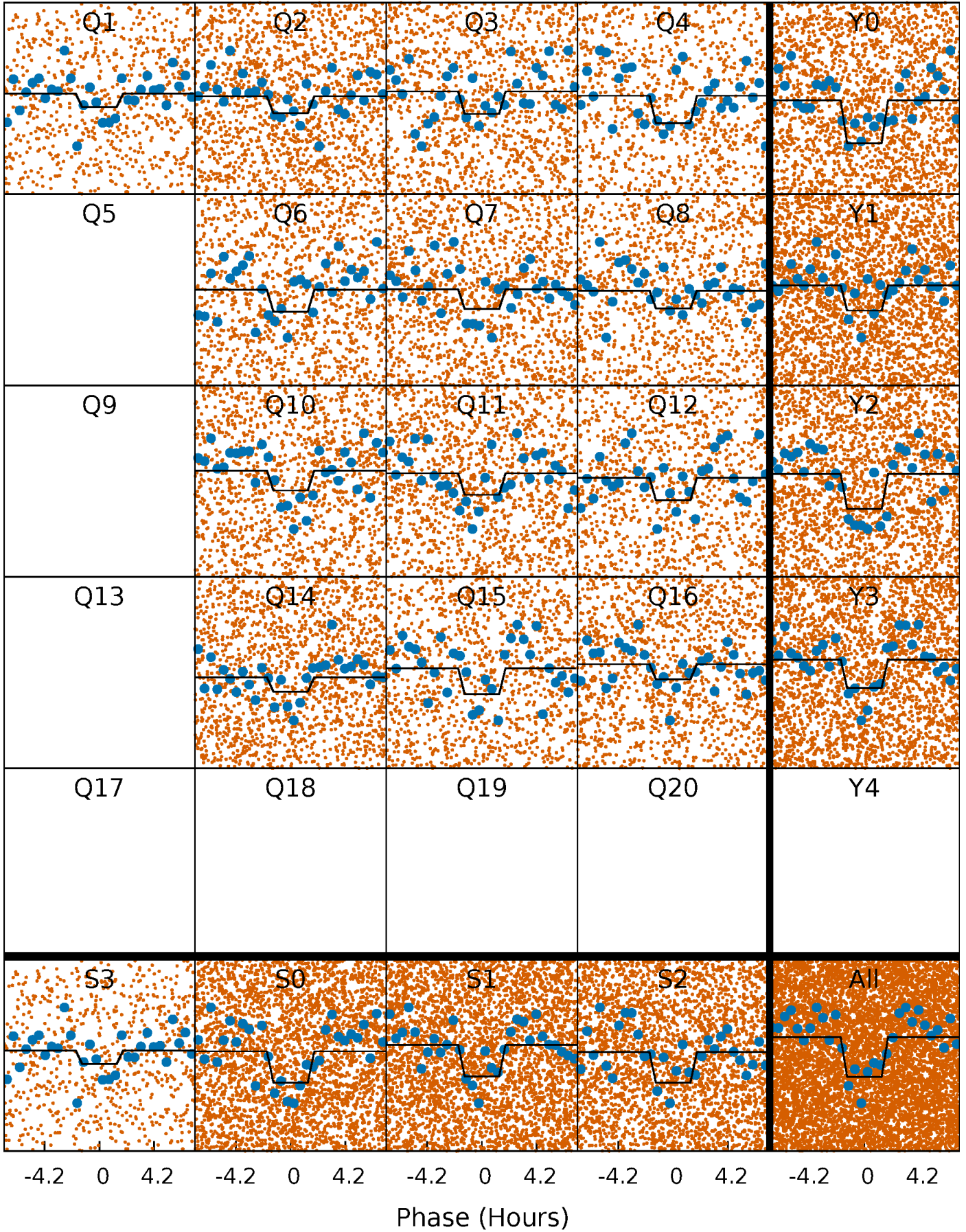
DV Quarter-Phased Transit Curves

TCE 006669717-01 P= 0.733672 Days $T_0=132.084533$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

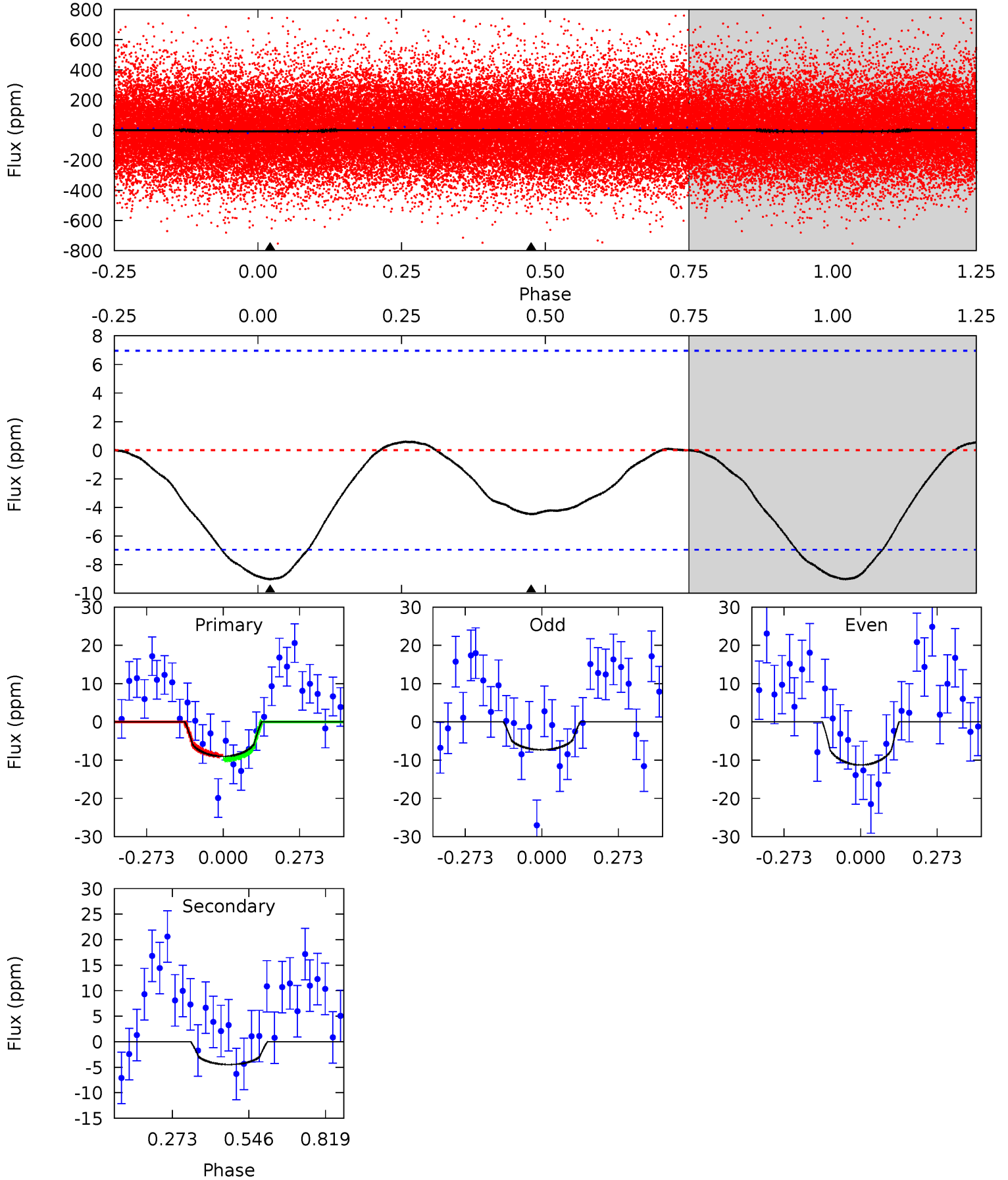
TCE 006669717-01 P= 0.733725 Days $T_0=132.037961$ (BKJD)



DV Model-Shift Uniqueness Test

006669717-01, P = 0.733672 Days, E = 131.350861 Days

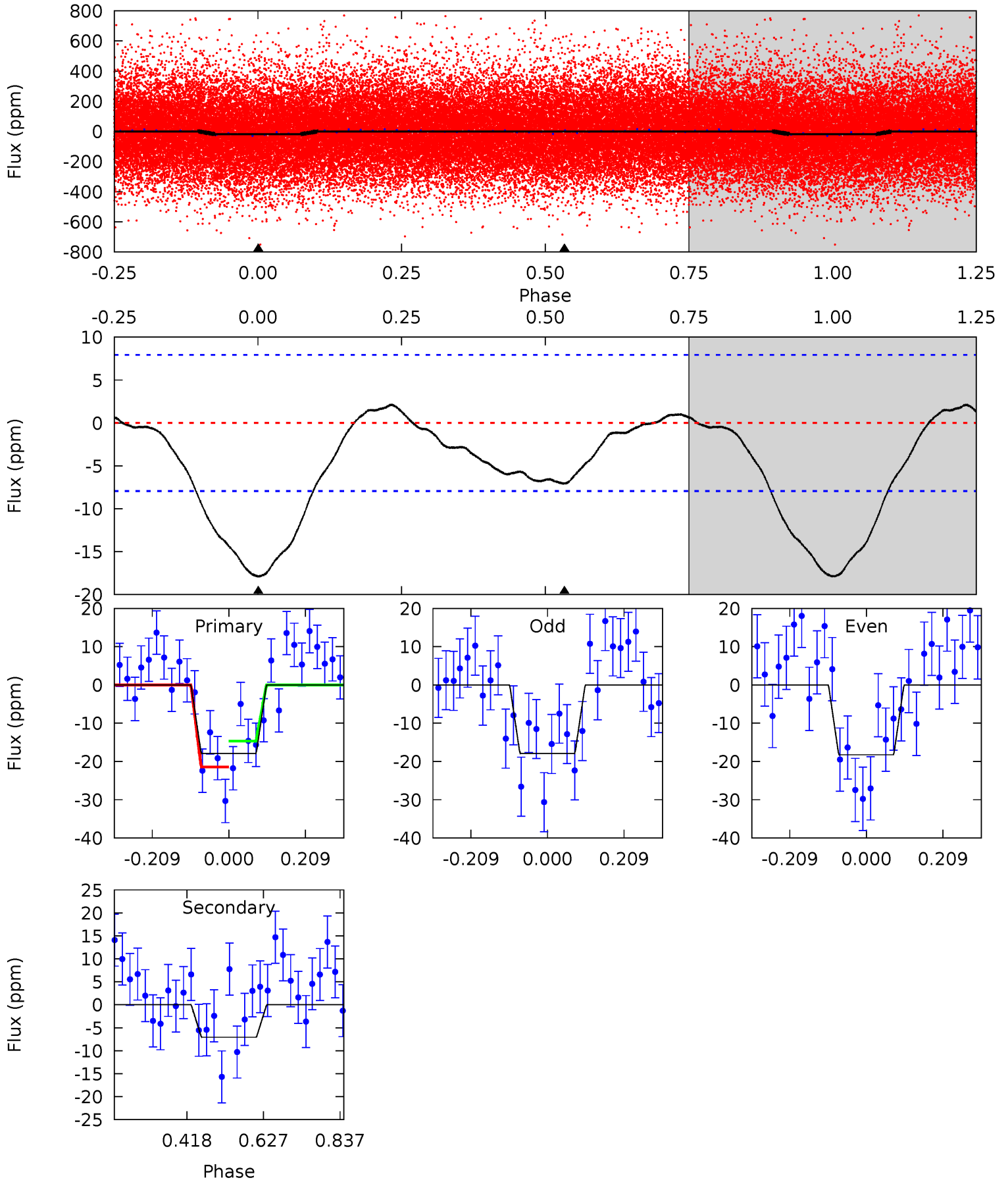
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.64	2.80	0	0	4.35	1.10	0.15	5.64	5.64	2.80	2.80	1.23	0.86	0.06	0.32



Alt Model-Shift Uniqueness Test

006669717-01, P = 0.733725 Days, E = 131.304236 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.94	3.93	0	0	4.41	1.26	0.68	9.94	9.94	3.93	3.93	0.10	1.16	0.11	1.87



Stellar Parameters For KIC 006669717

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5147^{+153}_{-138}	$4.551^{+0.078}_{-0.052}$	$-0.380^{+0.350}_{-0.300}$	$0.736^{+0.081}_{-0.081}$	$0.703^{+0.095}_{-0.044}$	$2.484^{+0.874}_{-0.452}$
	+3%/-3%	+2%/-1%	+92%/-79%	+11%/-11%	+14%/-6%	+35%/-18%
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 006669717-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-4 ± 2	$0.24^{+0.20}_{-0.16}$	2279^{+94}_{-90}	4437^{+2846}_{-964}	$8.997^{+60.268}_{-6.593}$
Alt.	-7 ± 2	$0.37^{+0.24}_{-0.20}$	2283^{+86}_{-83}	4099^{+1545}_{-709}	$5.740^{+20.778}_{-3.666}$

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

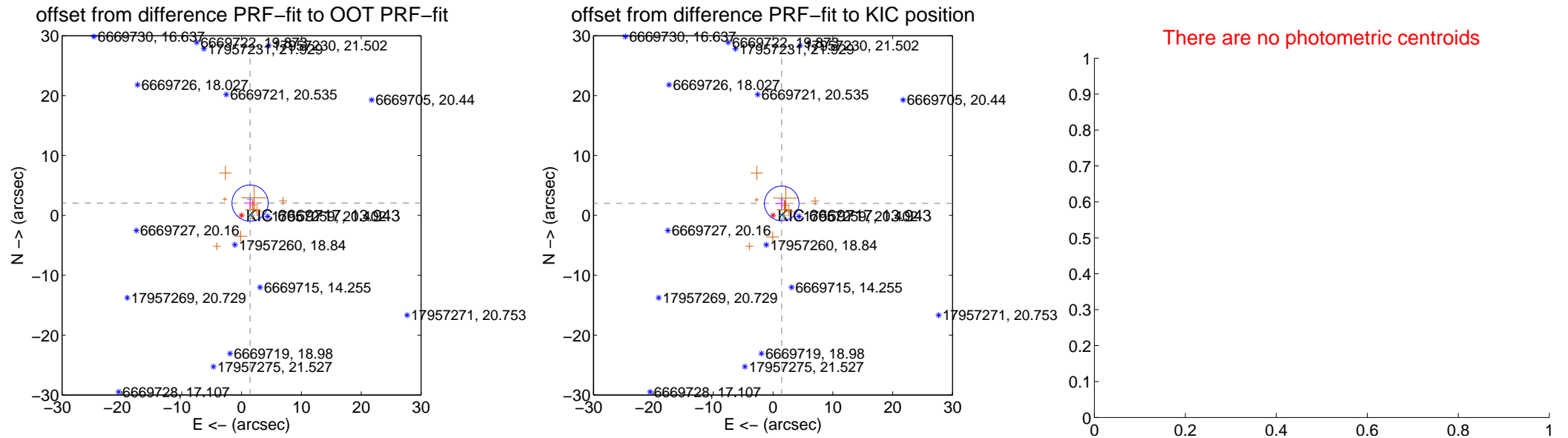
DV Centroid Data

Supplemental centroid analysis for 006669717-01. Kepler magnitude: 13.94. Transit SNR 2.12

There are 2 quarters with good PRF difference image offsets

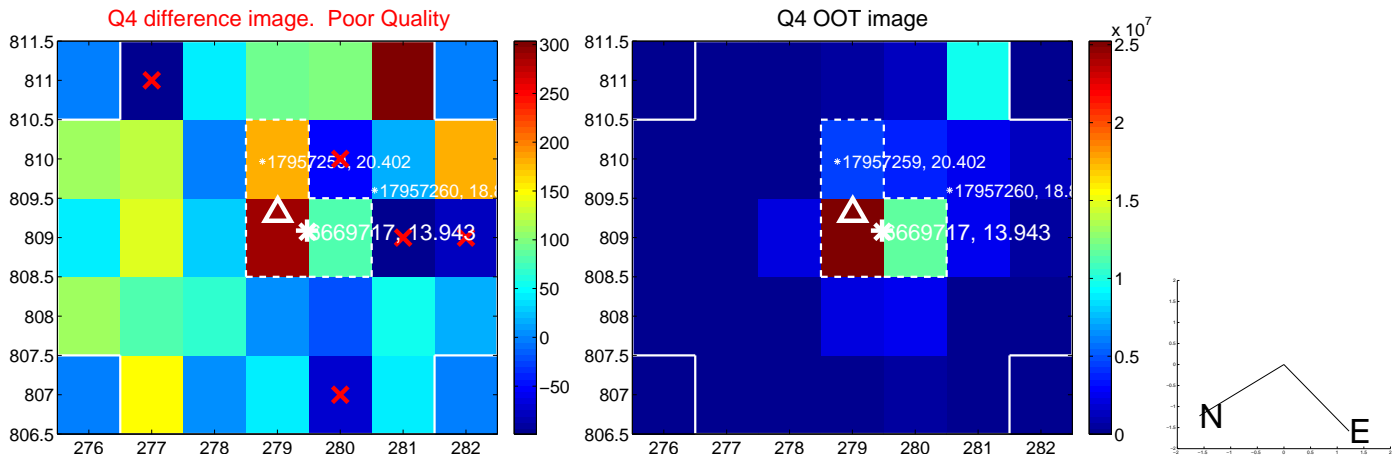
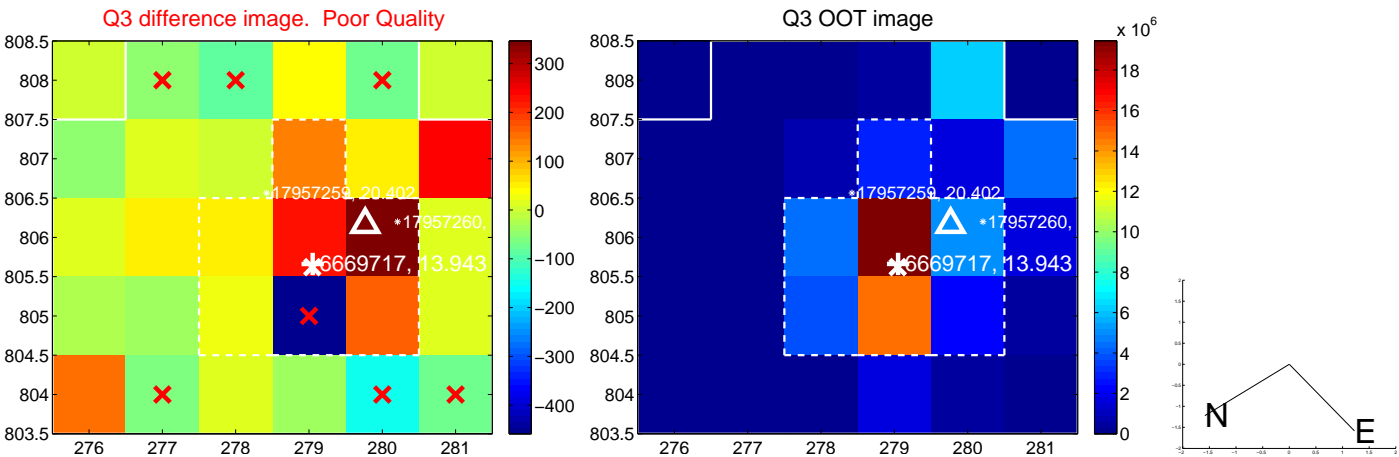
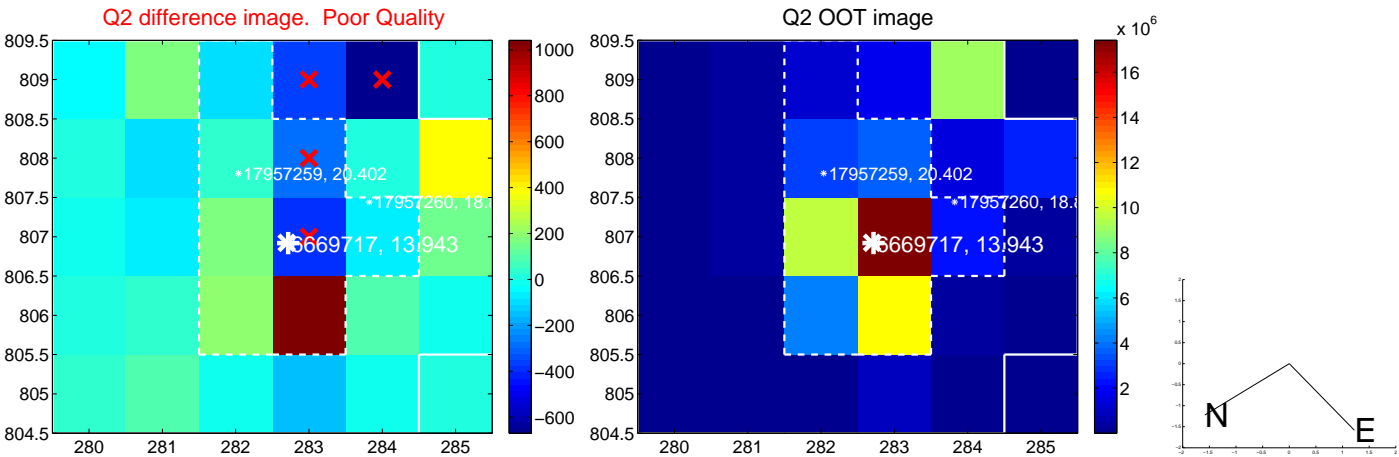
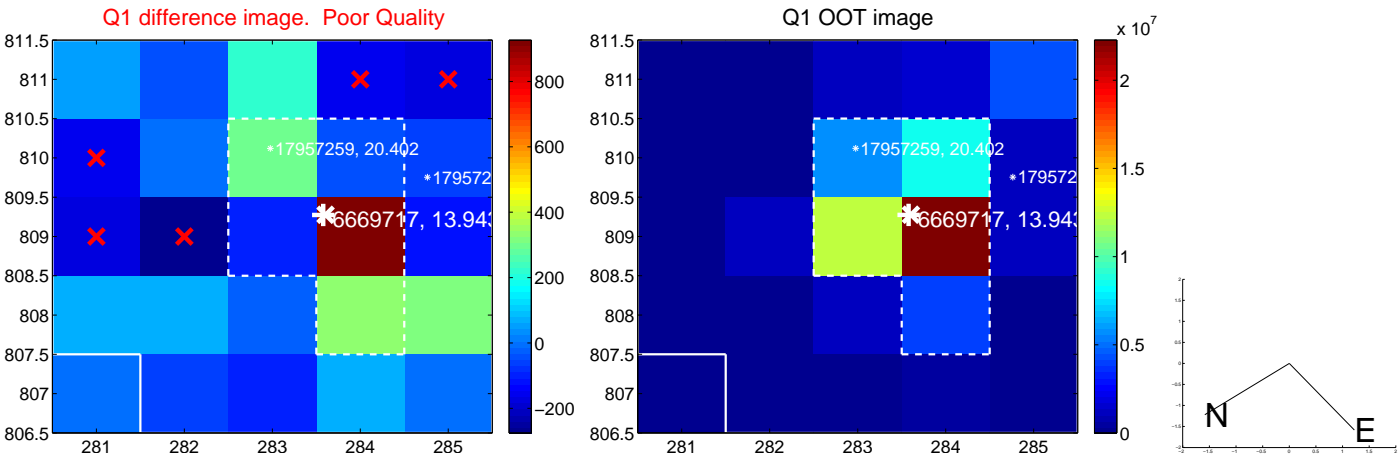
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.498 ± 1.010	2.47	-1.425 ± 0.848	2.052 ± 0.926
PRF-fit source offset from KIC position	2.470 ± 0.964	2.56	-1.457 ± 0.925	1.994 ± 0.899
photometric centroid source offset	—	—	—	—

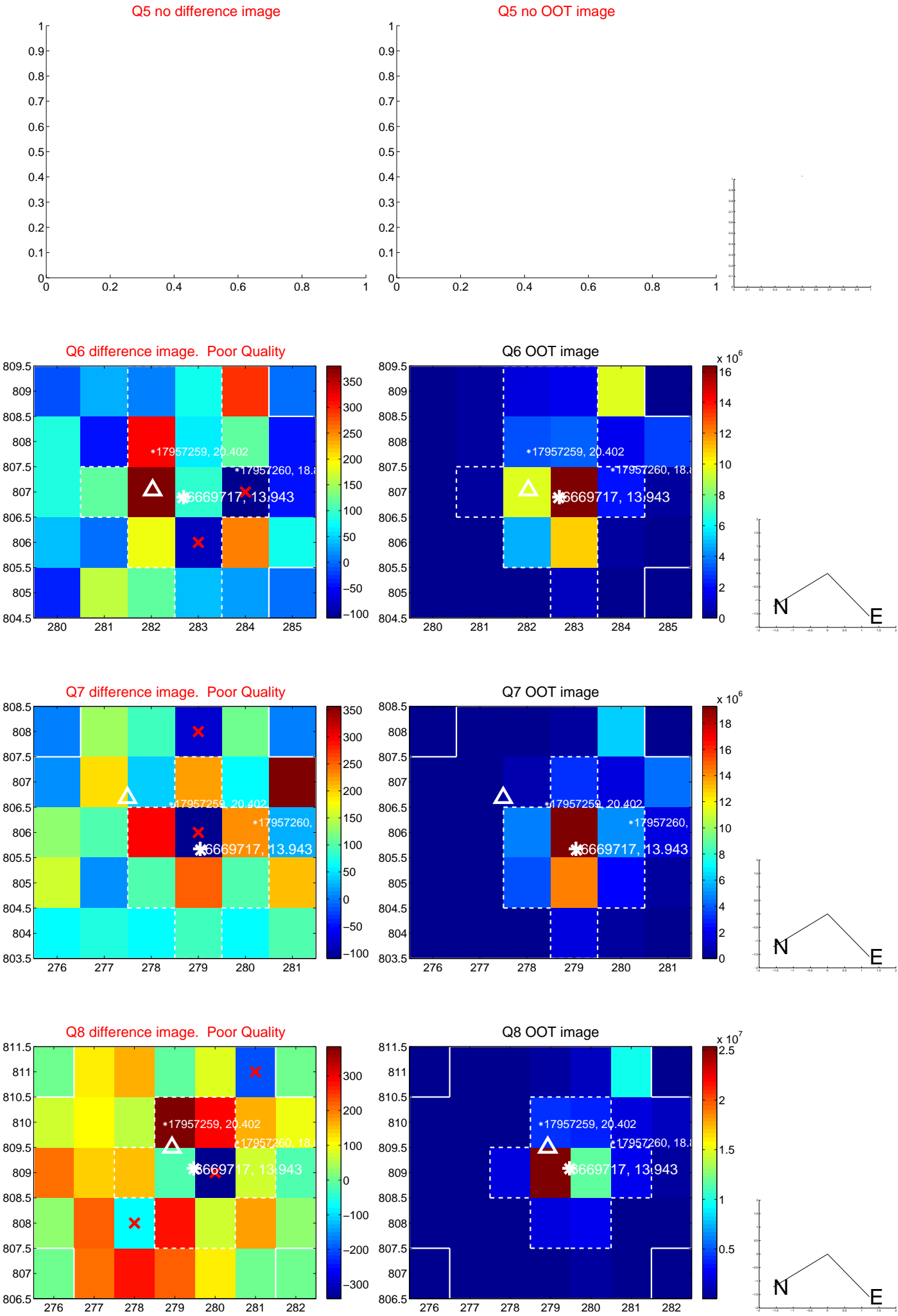


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

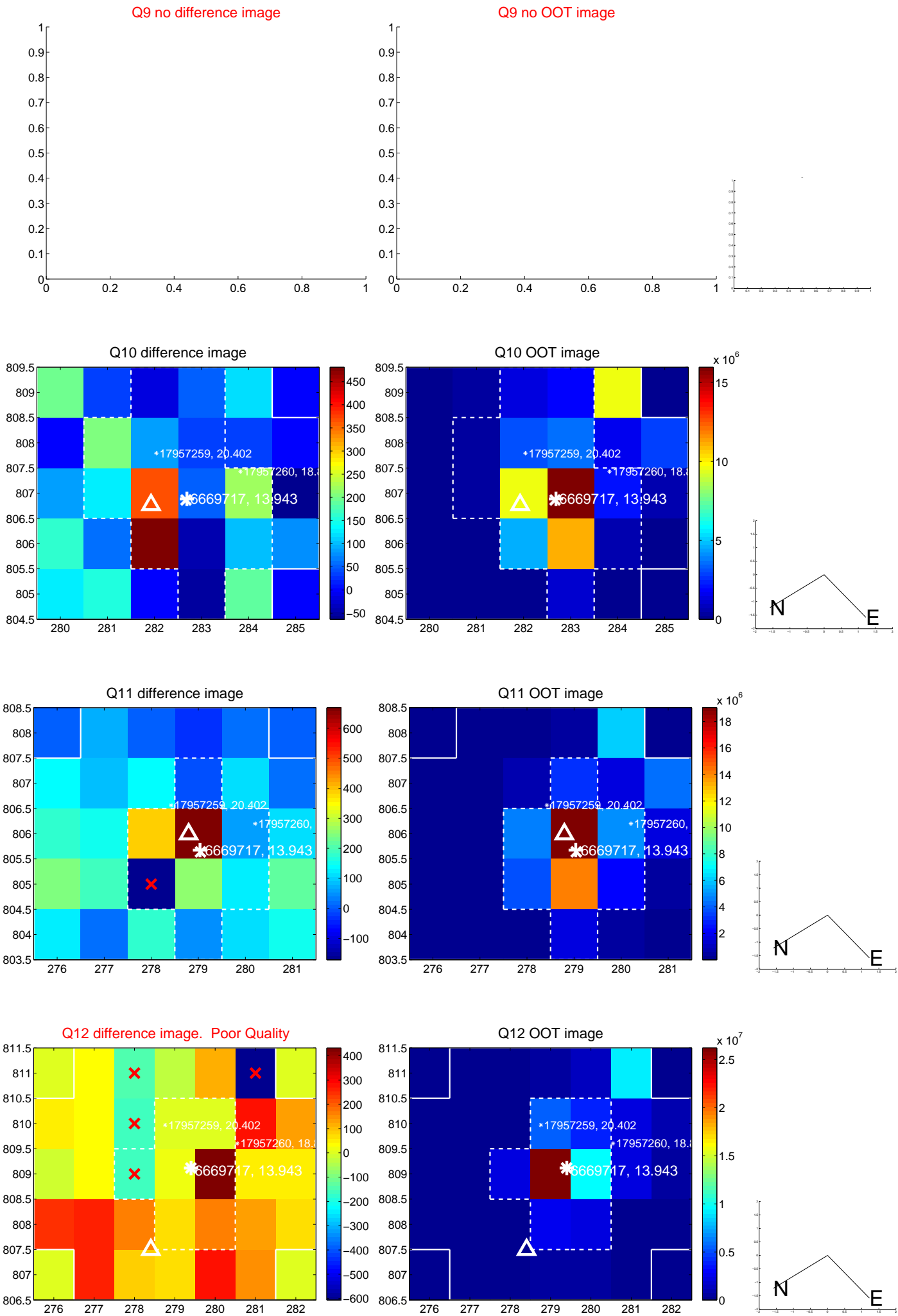
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



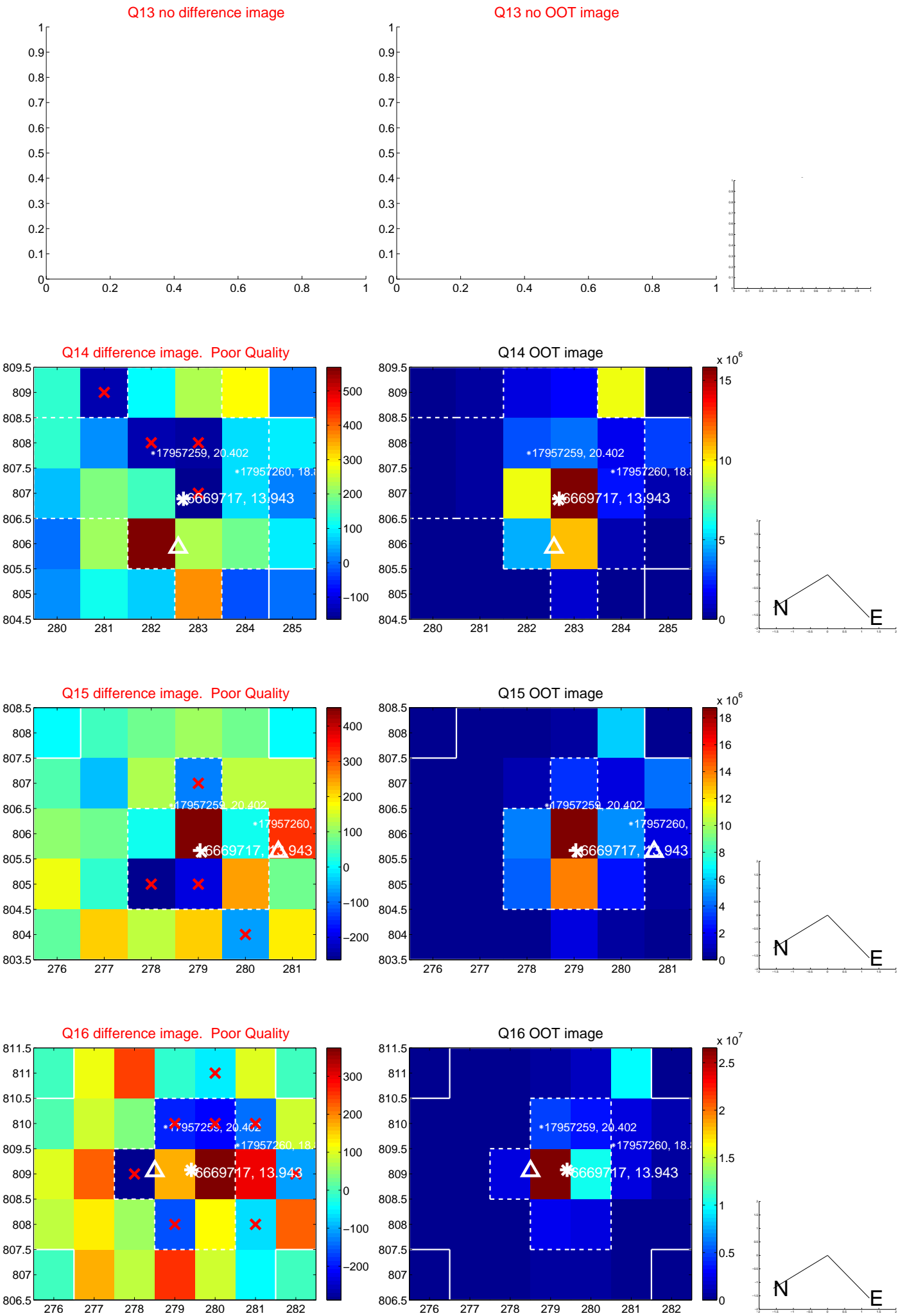
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



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

