

KIC 008327675

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})
008327675-01	OBS	No	0.949638	132.380987	2.4	9.911	8.1	1.7	2.91	6671	0.47	32601.71

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008327675-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—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.

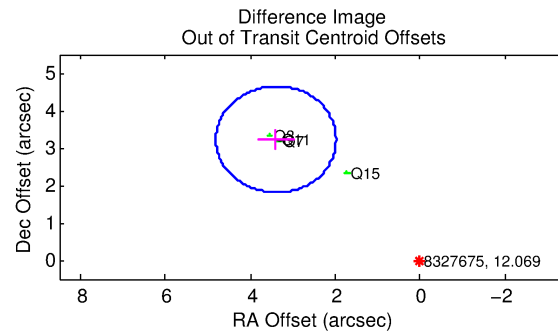
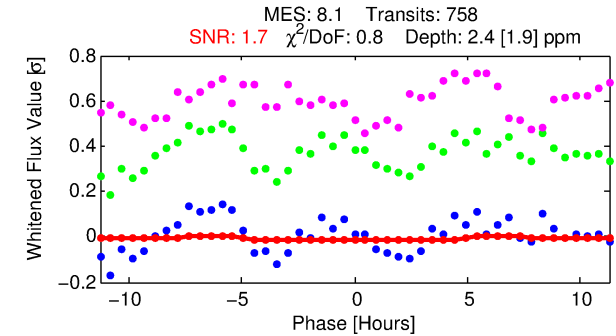
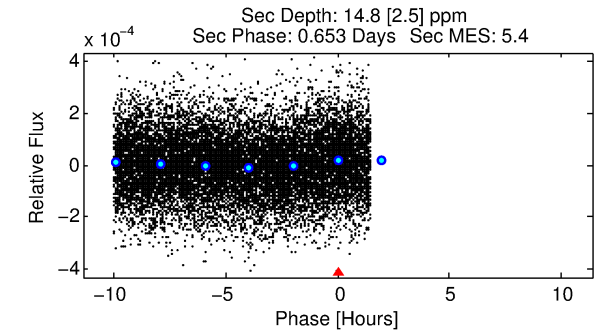
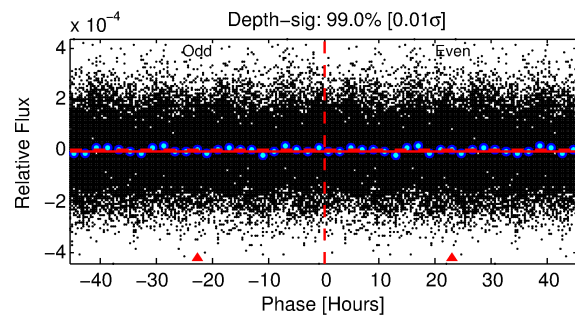
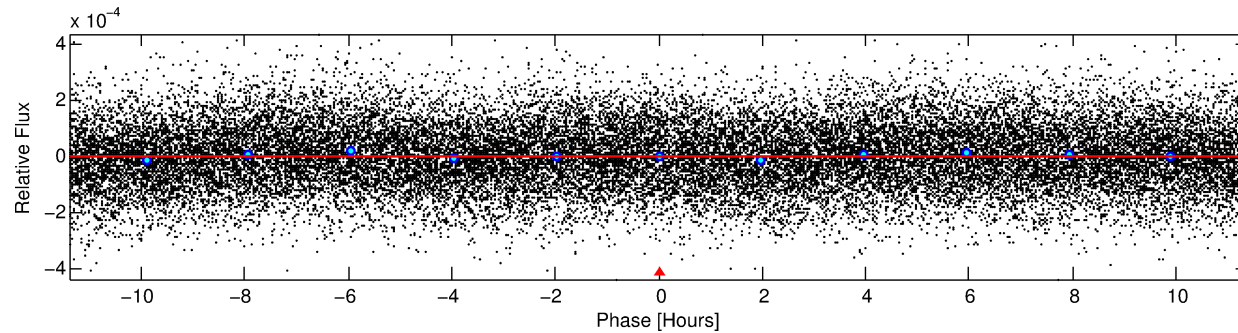
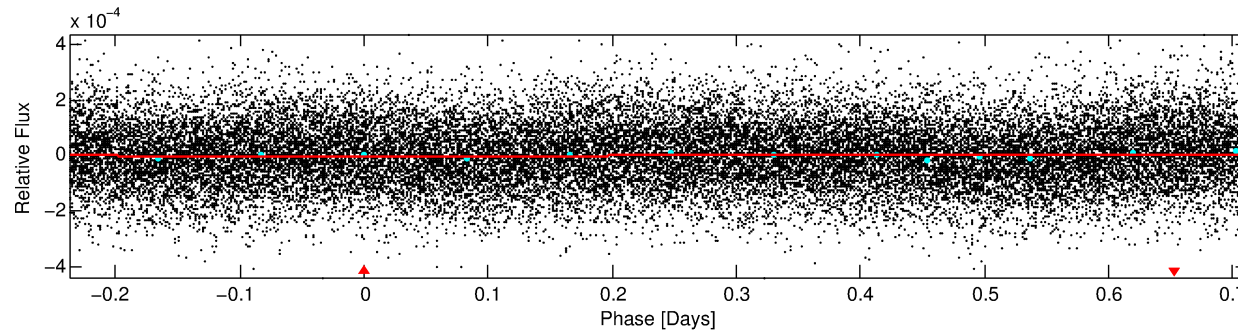
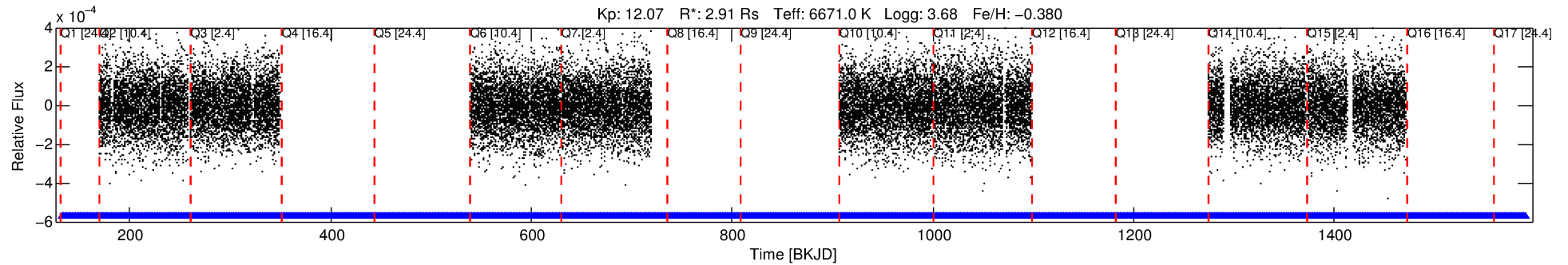
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008327675-01

No Significant Match Found

DV One-Page Summary

KIC: 8327675 Candidate: 1 of 1 Period: 0.950 d



DV Fit Results:

Period = 0.94964 [0.00013] d
Epoch = 132.3810 [0.0428] BKJD
Rp/R* = 0.0015 [0.0064]
a/R* = 1.02 [0.94]
b = 0.39 [54.35]
Seff = 32601.71 [18410.80]
Teq = 3426 [484] K
Rp = 0.47 [2.06] Re
a = 0.0215 [0.0074] AU
Ag = 17.41 [153.64] [0.11 σ]
Teffp = 10822 [23827] K [0.31 σ]

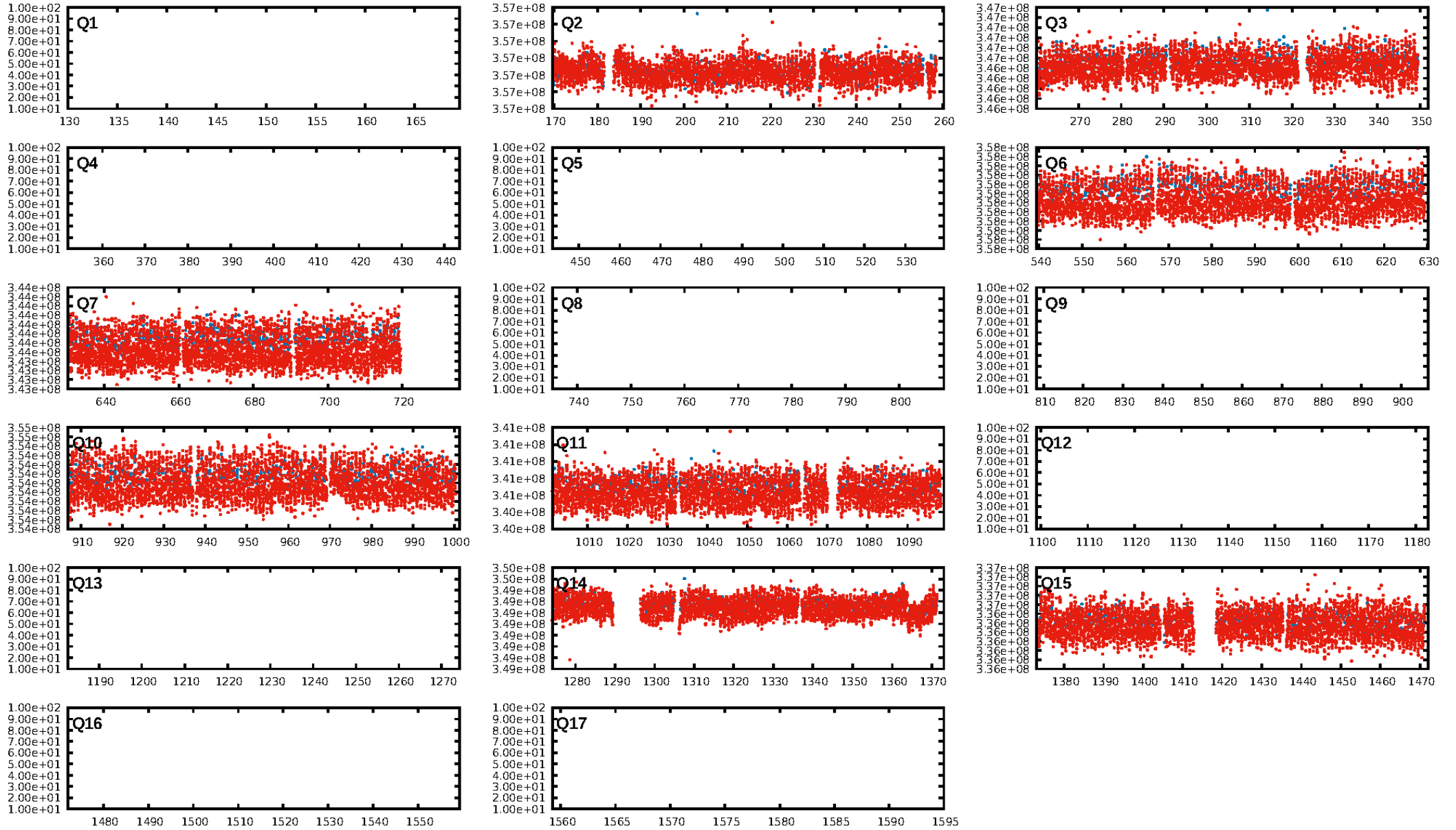
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [758/758]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 4.677 arcsec [9.89 σ]
KicOffset-rm: 4.800 arcsec [12.59 σ]
OotOffset-st: 0/4/0/0 [4]
KicOffset-st: 0/4/0/0 [4]
DiffImageQuality-fgm: 0.00 [0/4]
DiffImageOverlap-fno: 1.00 [8/8]

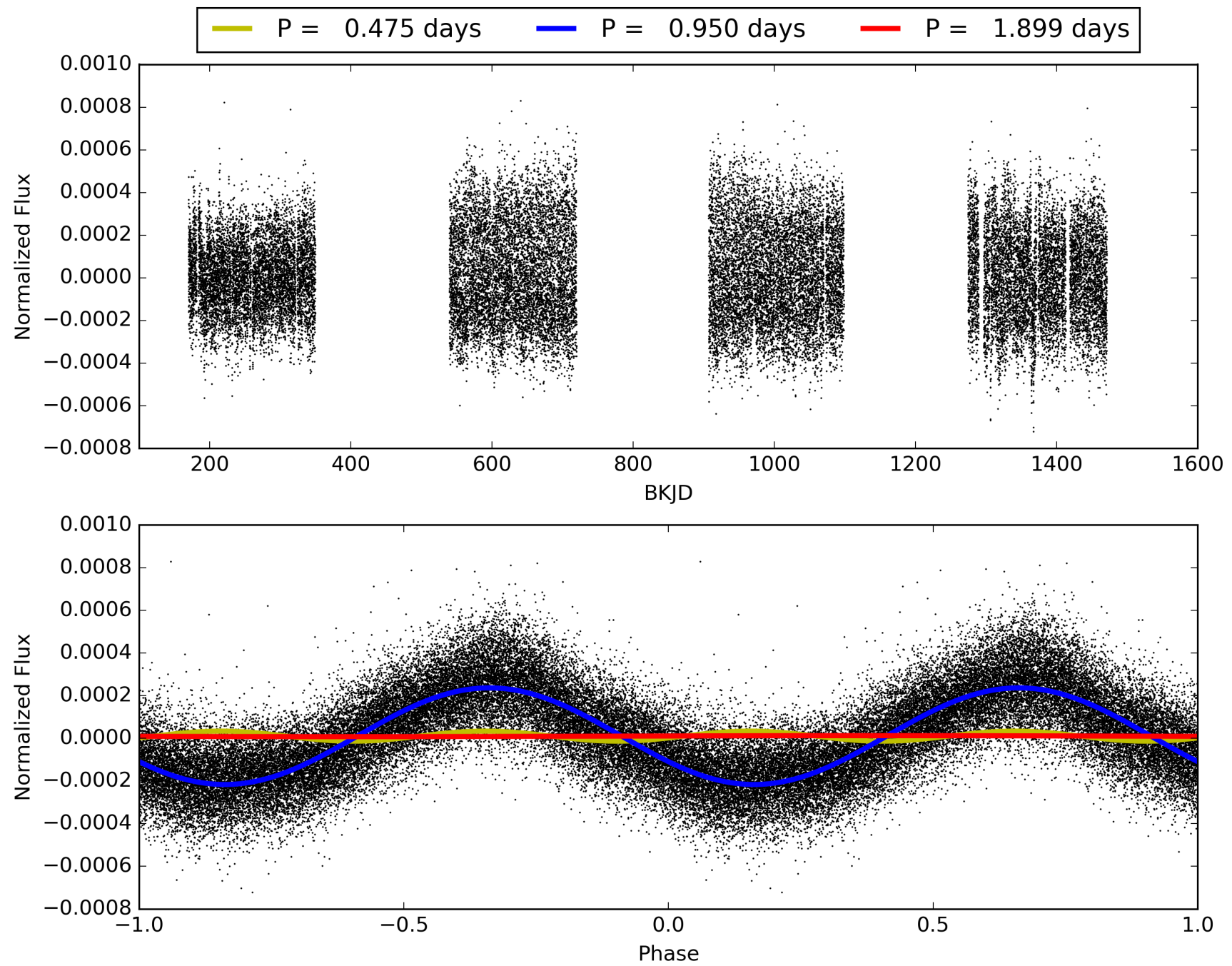
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 21:02:43 Z

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

TCE 008327675-01, PDC Light Curves

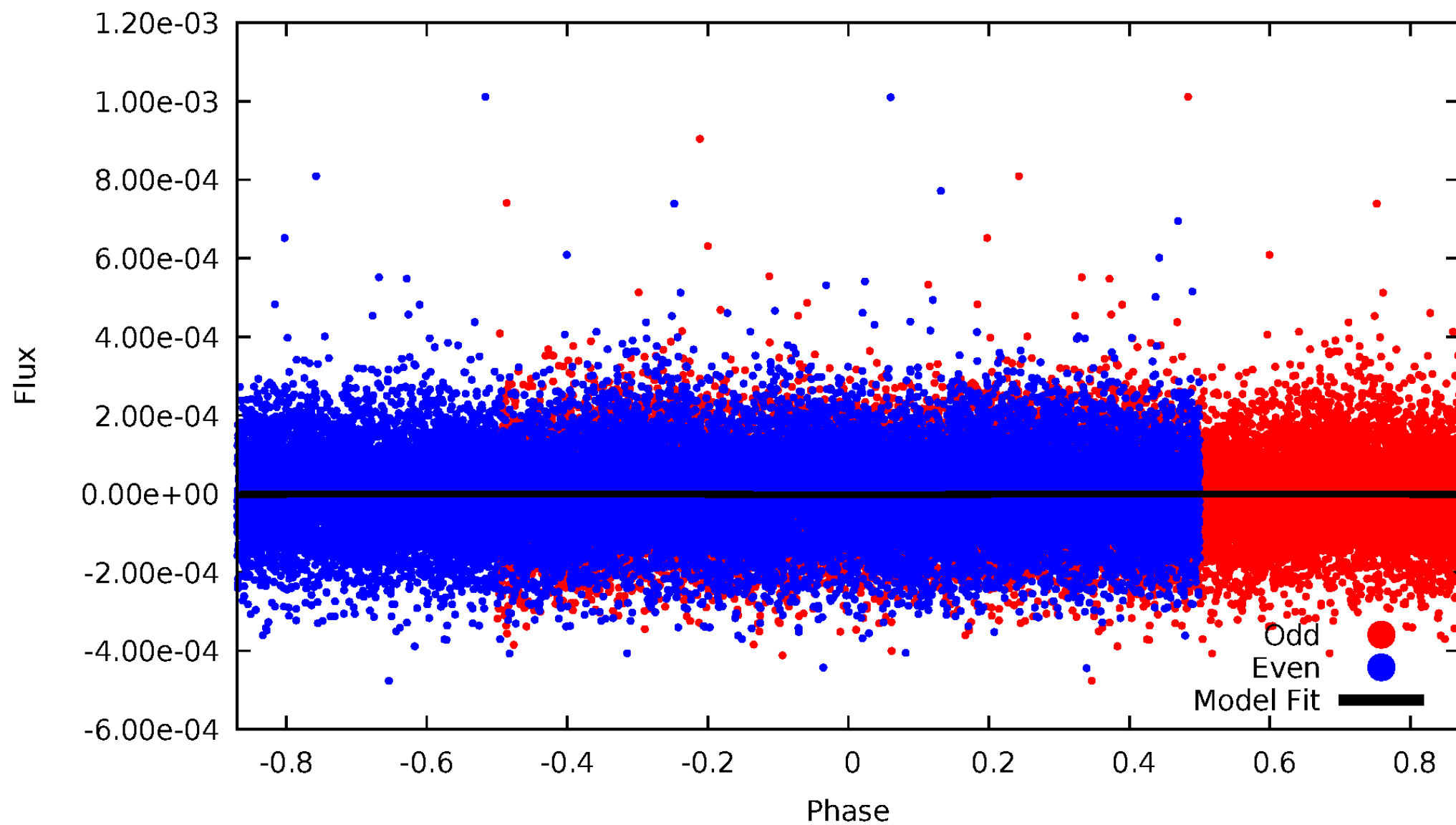


TCE 008327675-01



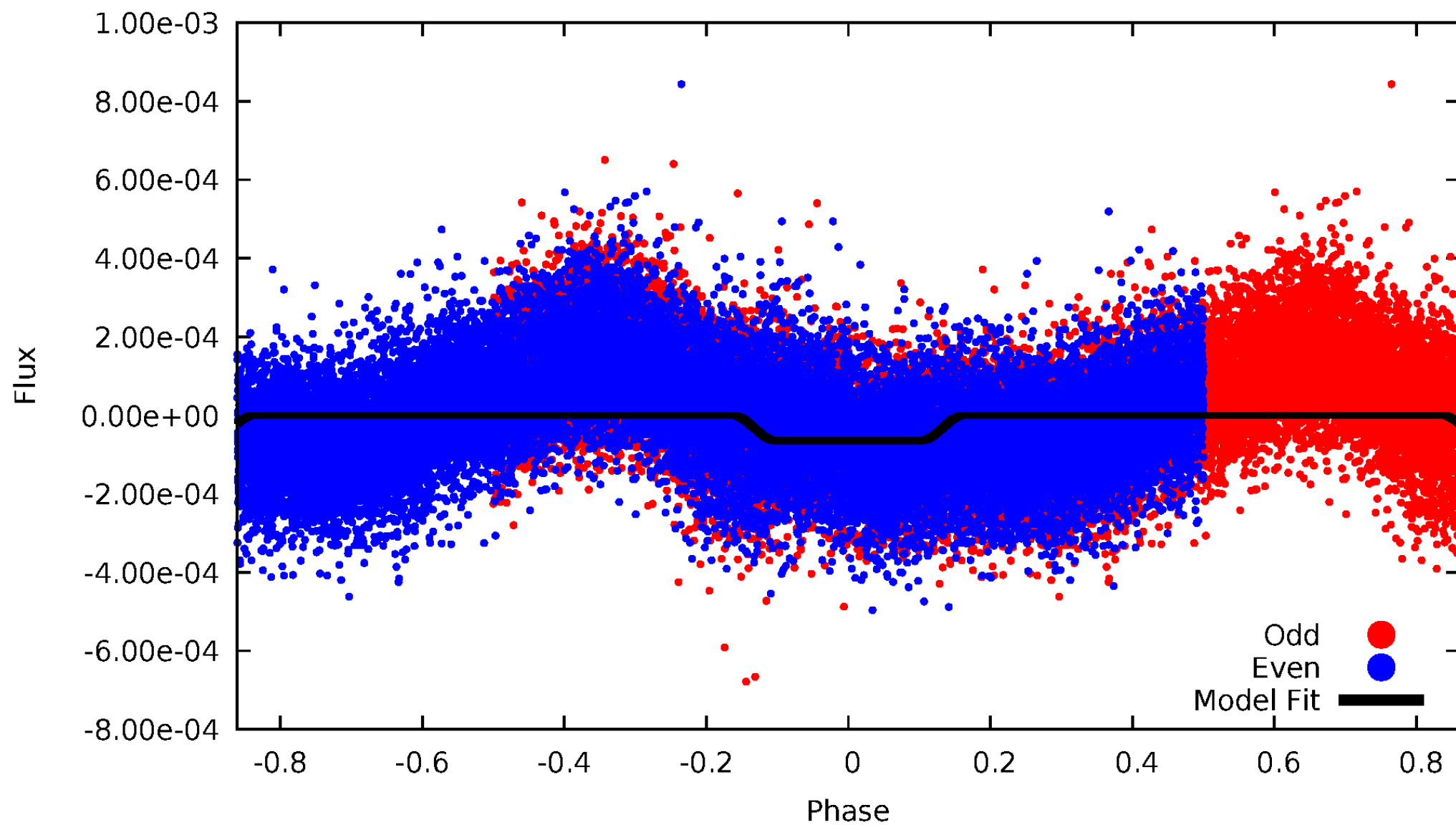
DV Odd/Even

TCE 008327675-01



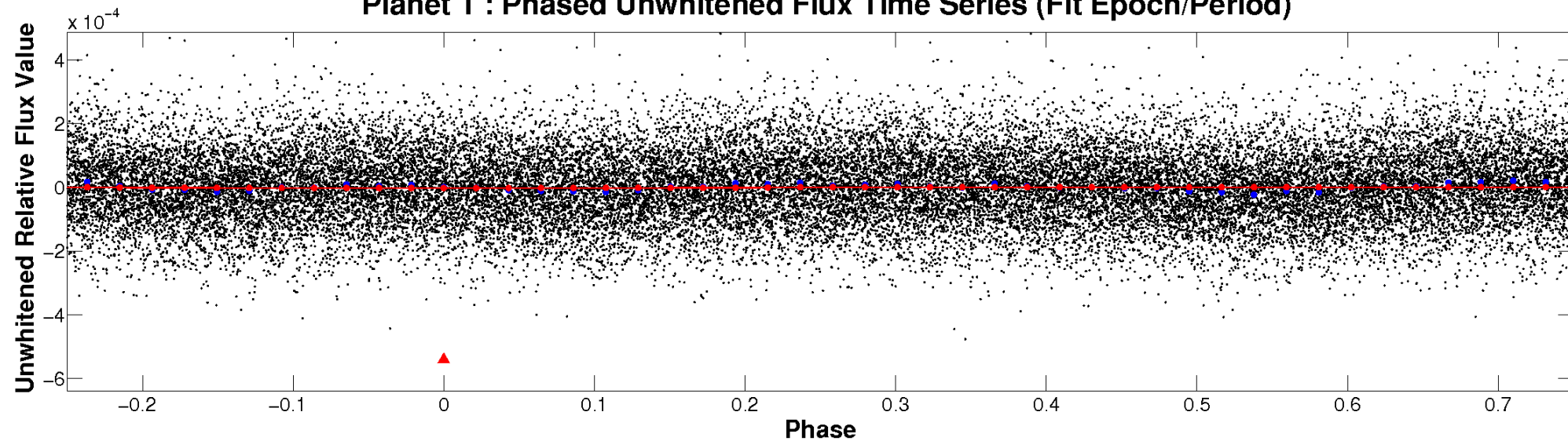
ALT Odd/Even

TCE 008327675-01

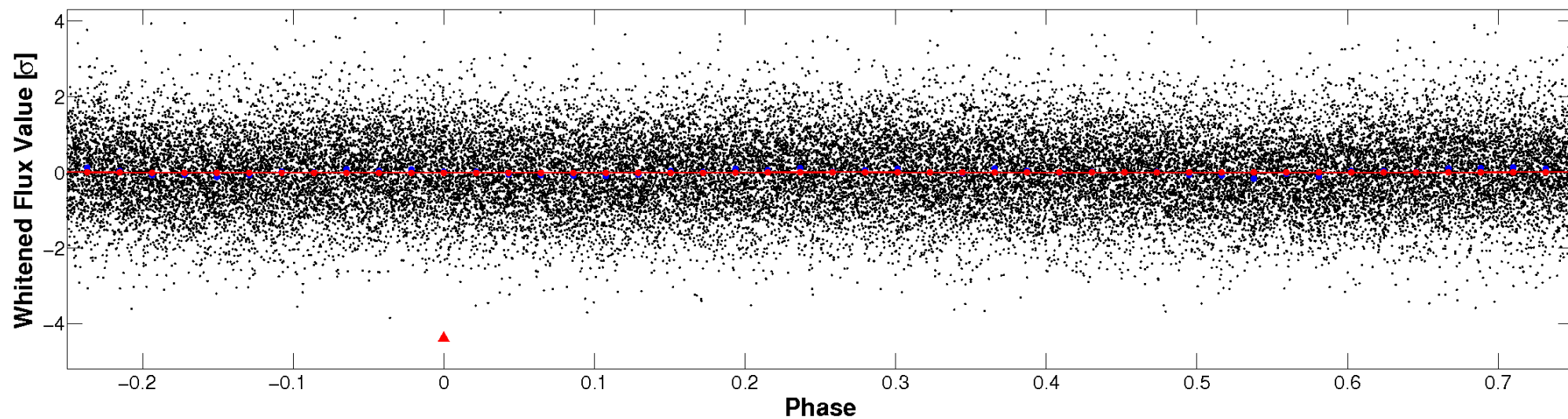


Non-Whitened Vs. Whitened Light Curve

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

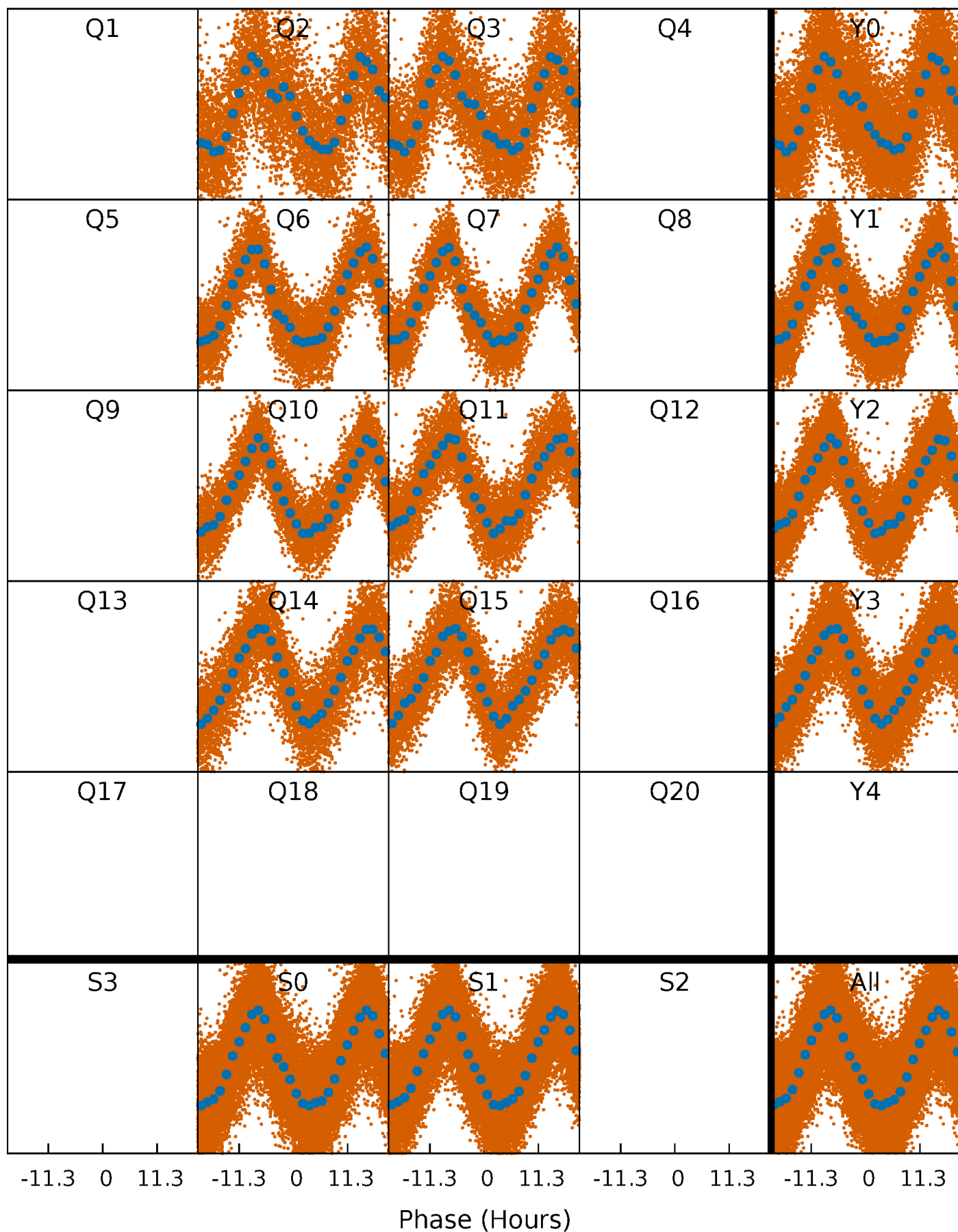


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



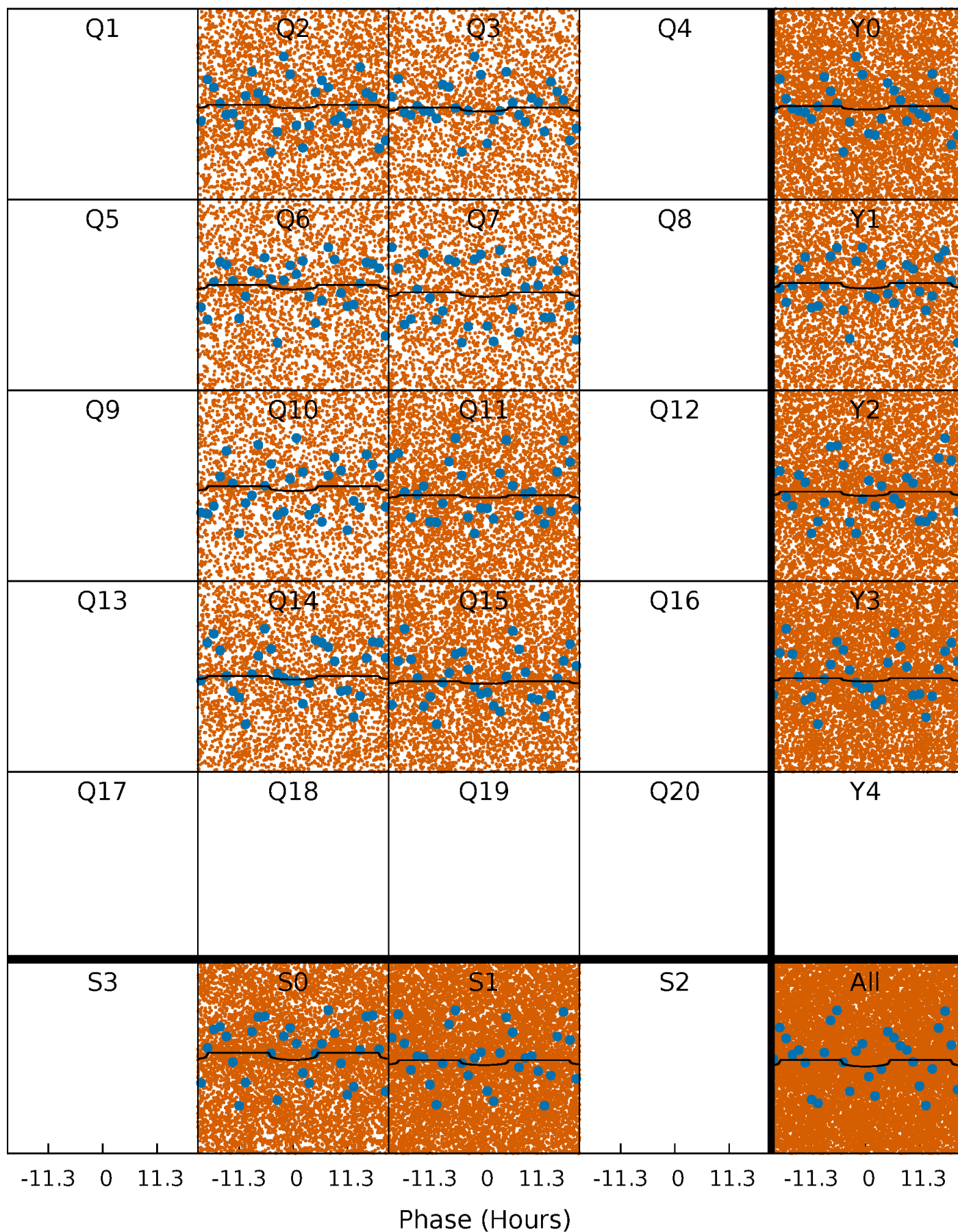
PDC Quarter-Phased Transit Curves

TCE 008327675-01 P= 0.949638 Days $T_0=132.380987$ (BKJD)



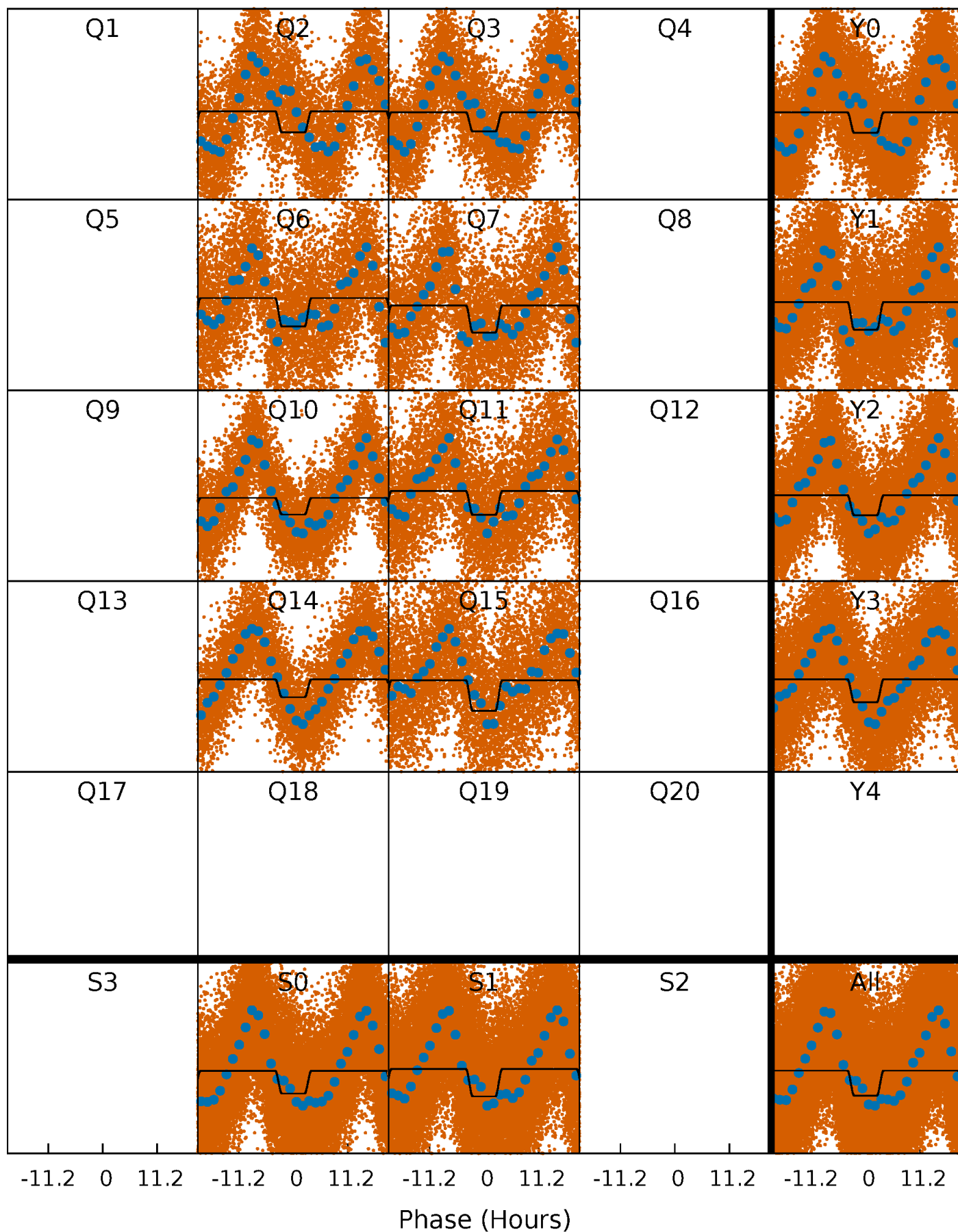
DV Quarter-Phased Transit Curves

TCE 008327675-01 P= 0.949638 Days $T_0=132.380987$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

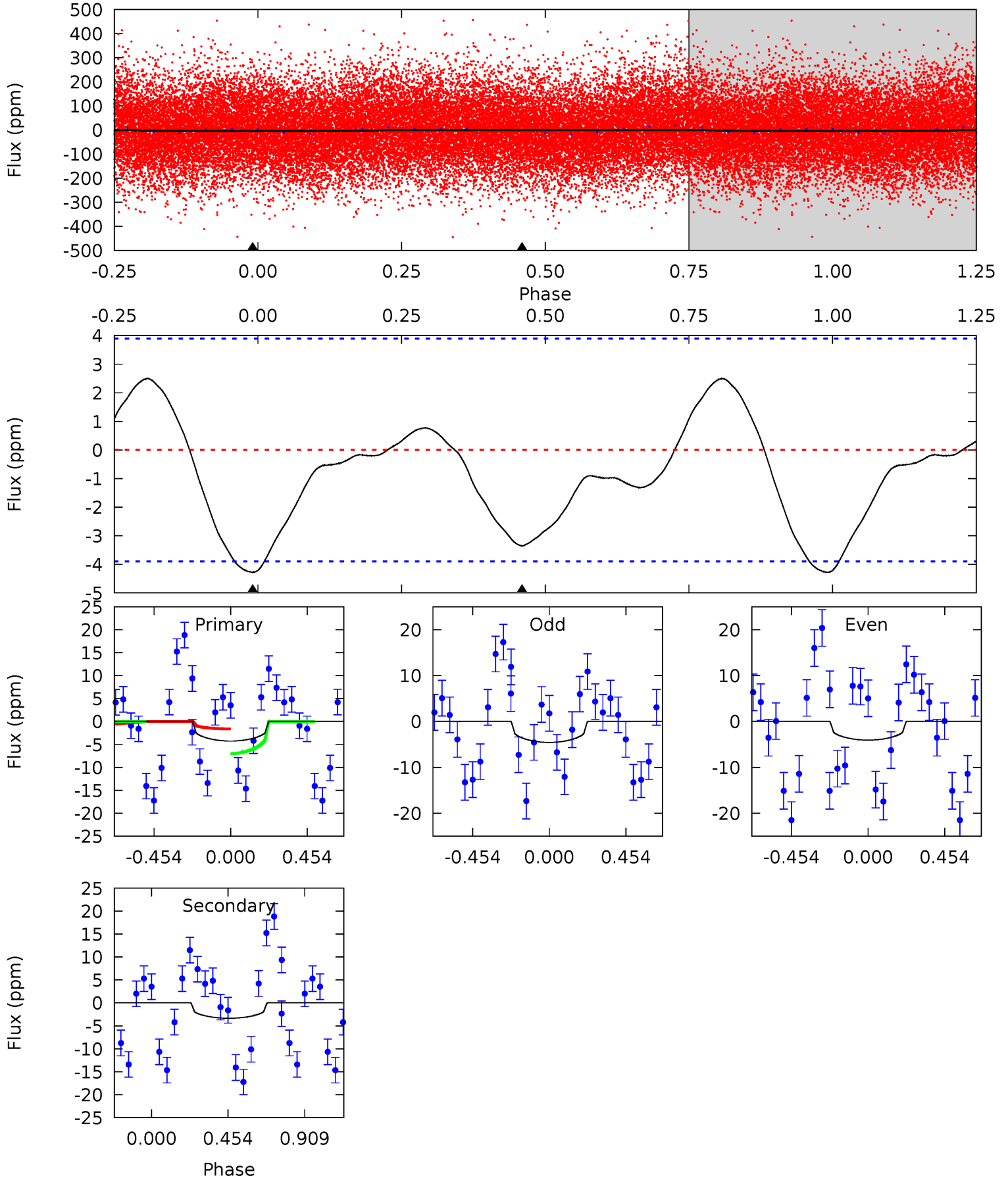
TCE 008327675-01 P= 0.949704 Days $T_0=132.362713$ (BKJD)



DV Model-Shift Uniqueness Test

008327675-01, P = 0.949638 Days, E = 132.380987 Days

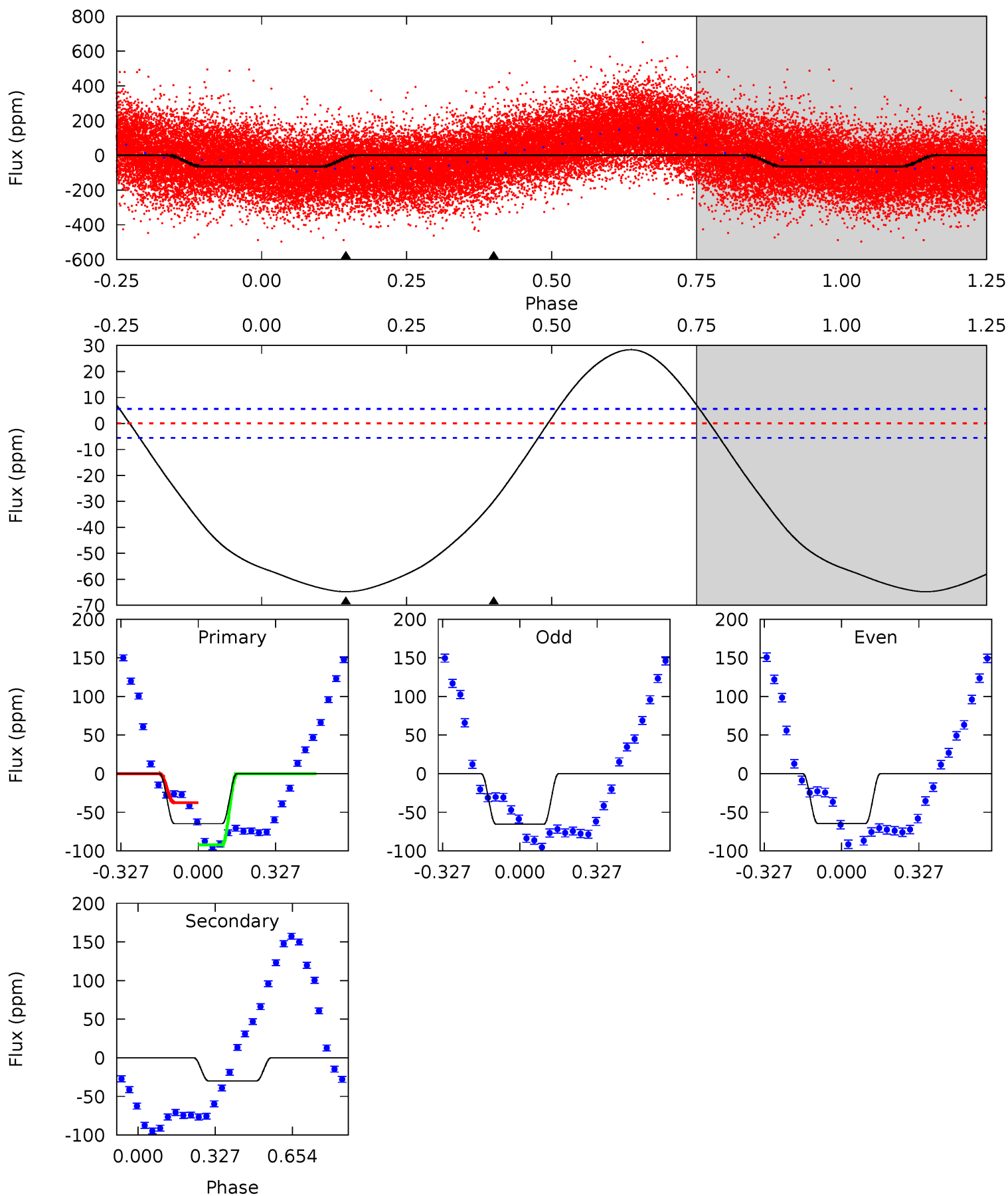
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.65	3.65	0	0	4.24	0.75	0.87	4.65	4.65	3.65	3.65	0.27	0.98	0.37	3.06



Alt Model-Shift Uniqueness Test

008327675-01, P = 0.949704 Days, E = 132.362713 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
50.1	23.1	0	0	4.31	0.98	7.12	50.1	50.1	23.1	23.1	0.38	0.99	0.30	20.9



Stellar Parameters For KIC 008327675

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6671^{+210}_{-234}	$3.676^{+0.320}_{-0.080}$	$-0.380^{+0.350}_{-0.250}$	$2.914^{+0.451}_{-1.052}$	$1.471^{+0.249}_{-0.304}$	$0.084^{+0.199}_{-0.022}$
	+3%/-4%	+9%/-2%	+92%/-66%	+15%/-36%	+17%/-21%	+238%/-27%
Source	KIC0	FLK73	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 008327675-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3 ± 1	$1.50^{+1.50}_{-1.02}$	4687^{+274}_{-395}	3232^{+3740}_{-7123}	$0.373^{+3.687}_{-0.278}$
Alt.	-30 ± 1	$2.60^{+1.81}_{-1.53}$	4659^{+327}_{-414}	4931^{+3172}_{-1488}	$1.134^{+5.232}_{-0.733}$

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 $A_{obs} \gg 1.0$

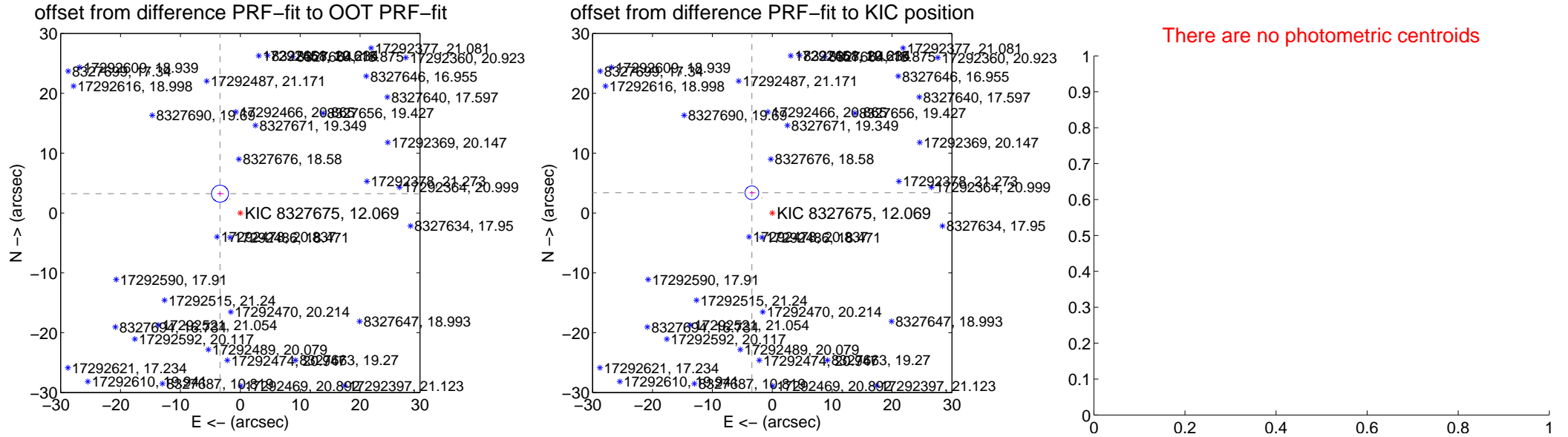
DV Centroid Data

Supplemental centroid analysis for 008327675-01. Kepler magnitude: 12.07. Transit SNR 1.67

There are 0 quarters with good PRF difference image offsets

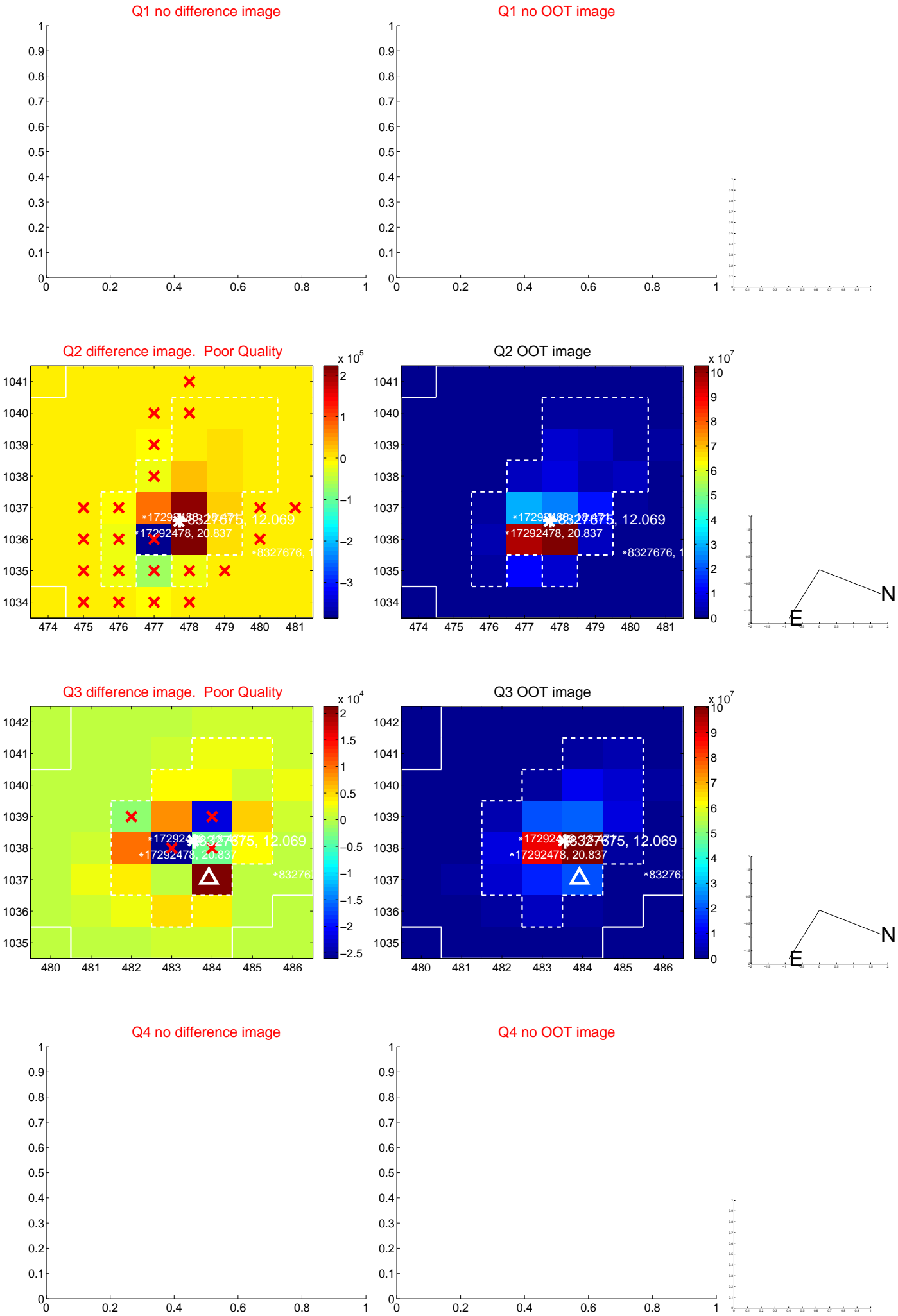
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.677 \pm 0.473	9.89	3.386 \pm 0.434	3.227 \pm 0.238
PRF-fit source offset from KIC position	4.800 \pm 0.381	12.59	3.406 \pm 0.357	3.383 \pm 0.192
photometric centroid source offset	—	—	—	—

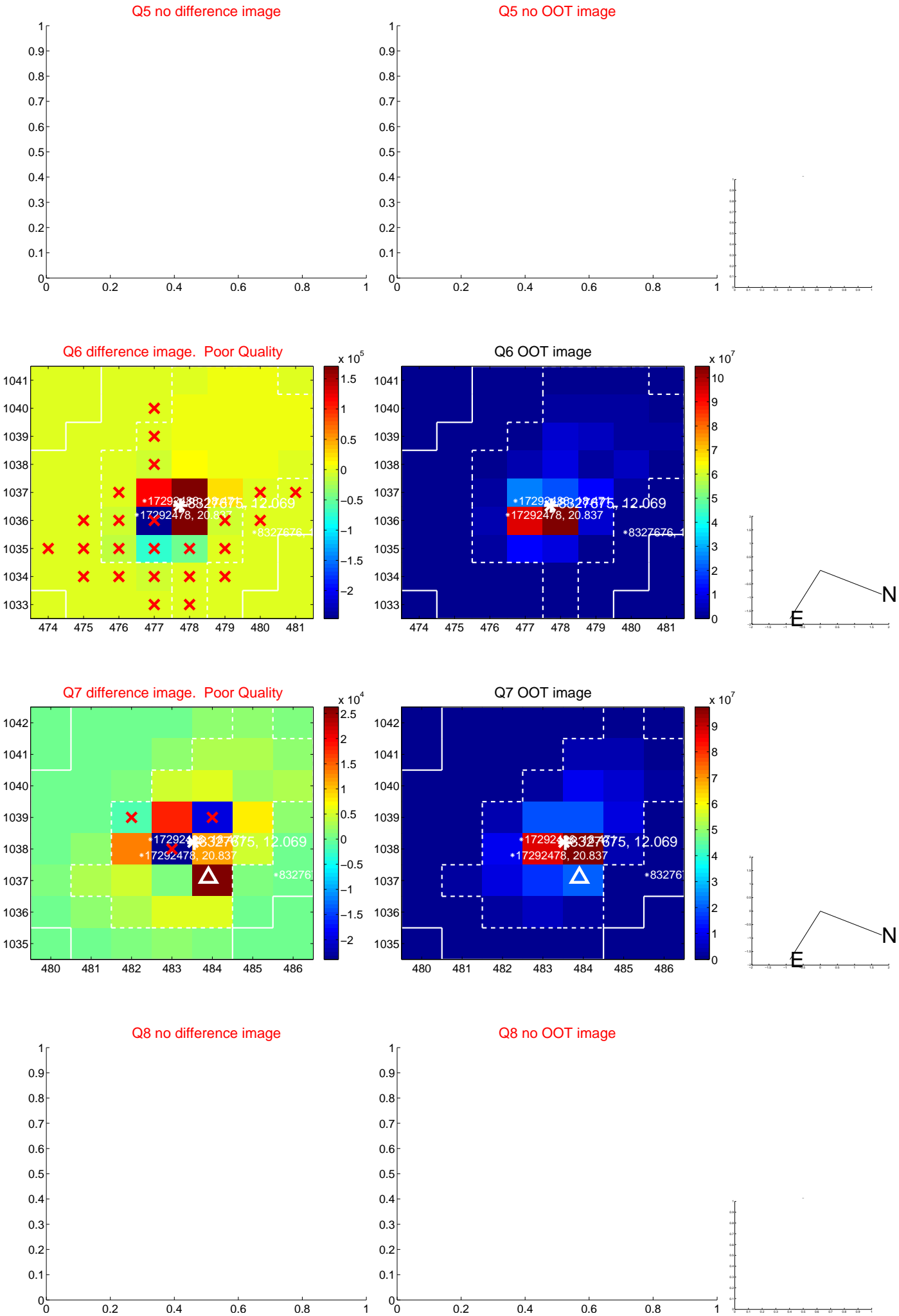


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

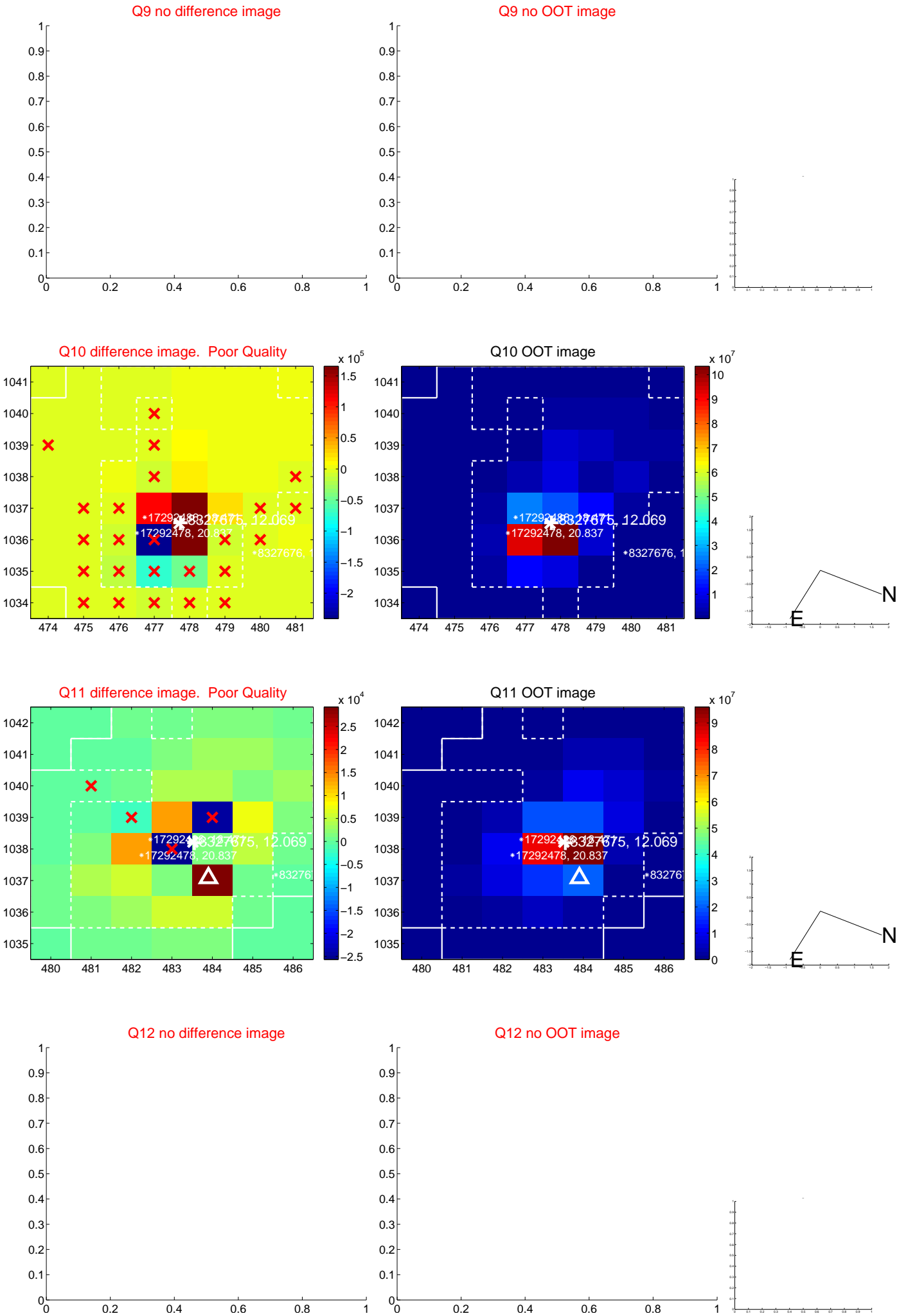
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



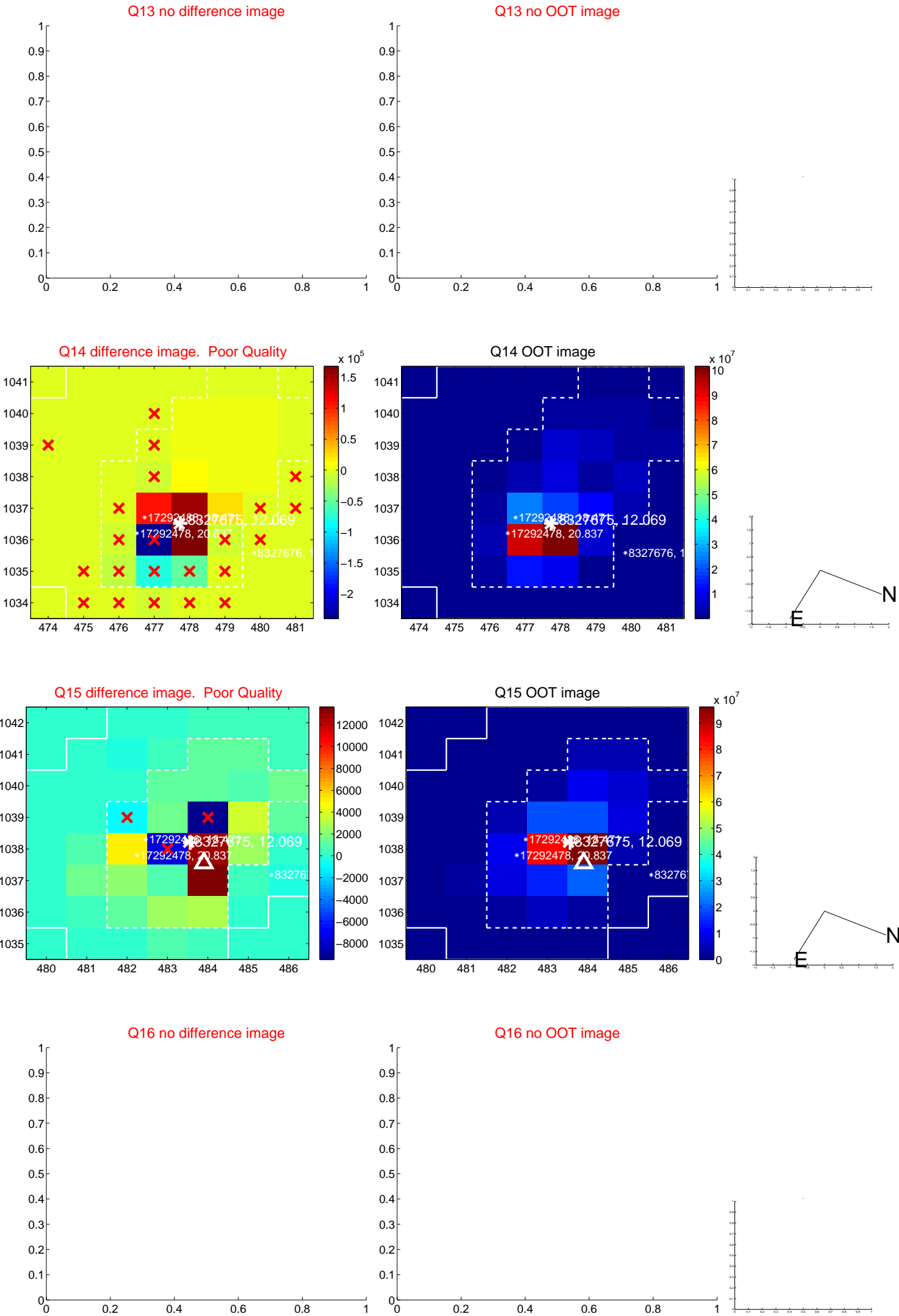
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

