

KIC 006265792

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})
006265792-01	OBS	2753.01	0.935118	132.202003	63.2	1.562	17.3	19.9	1.30	5874	1.24	4816.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006265792-01	OBS	PC	0.97	0	0	0	0	NO_COMMENT

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

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

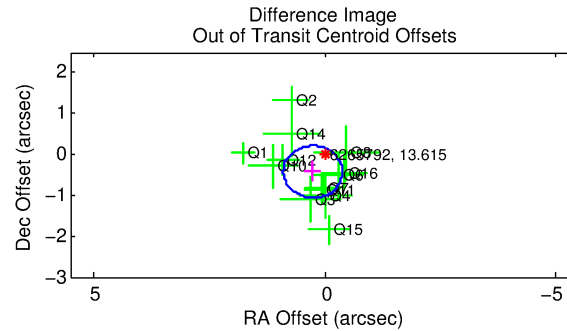
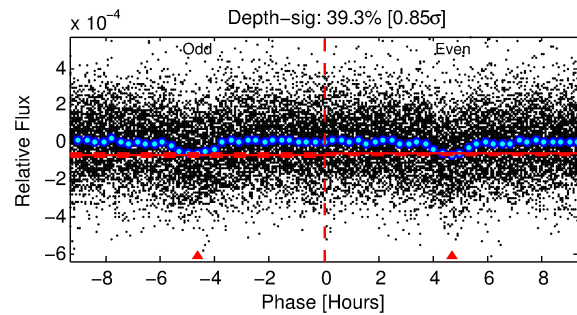
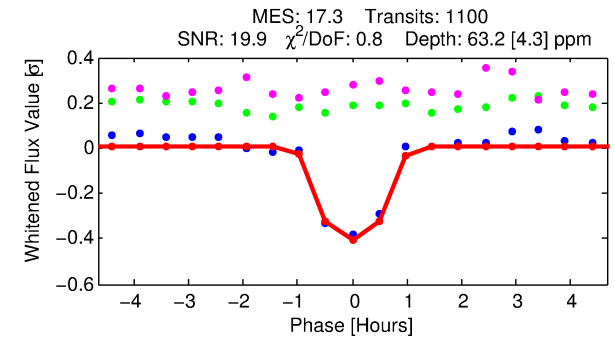
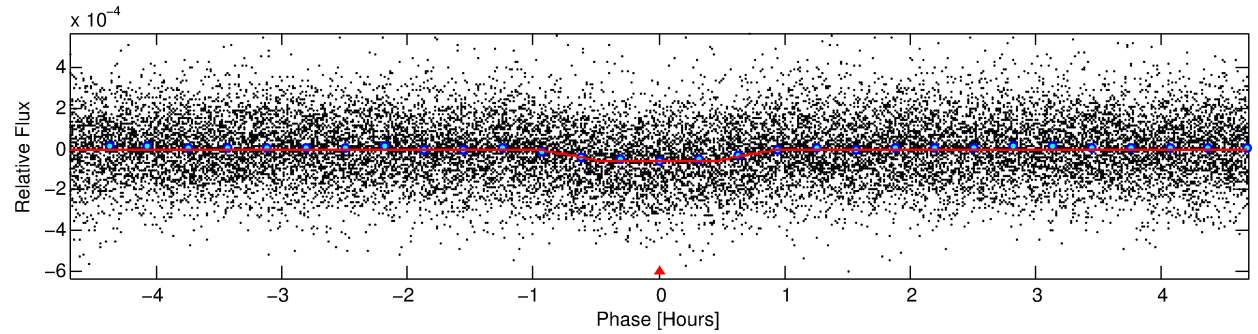
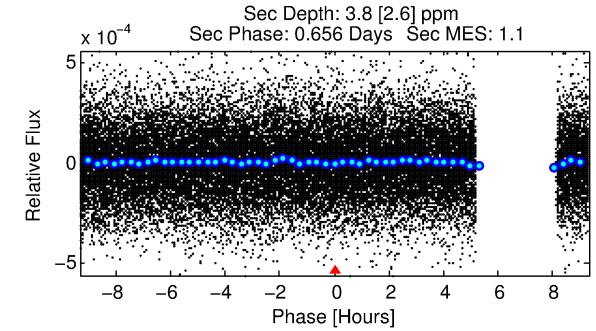
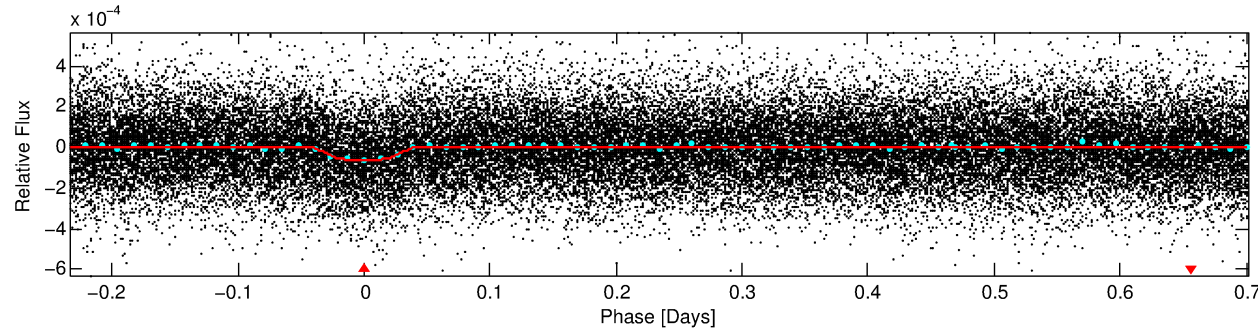
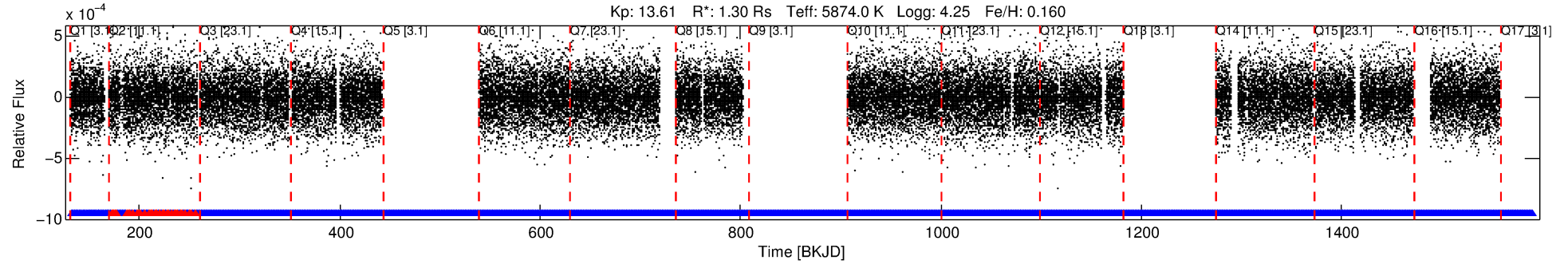
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006265792-01

No Significant Match Found

DV One-Page Summary

KIC: 6265792 Candidate: 1 of 1 Period: 0.935 d
KOI: K02753.01 Corr: 0.959



DV Fit Results:

Period = 0.93512 [0.00001] d
Epoch = 132.2020 [0.0012] BKJD
Rp/R* = 0.0087 [0.0030]
a/R* = 2.24 [3.03]
b = 0.91 [0.34]
Seff = 4816.91 [1164.48]
Teq = 2124 [128] K
Rp = 1.24 [0.47] Re
a = 0.0193 [0.0029] AU
Ag = 0.51 [0.51] [-0.96σ]
Teffp = 2771 [683] K [0.93σ]

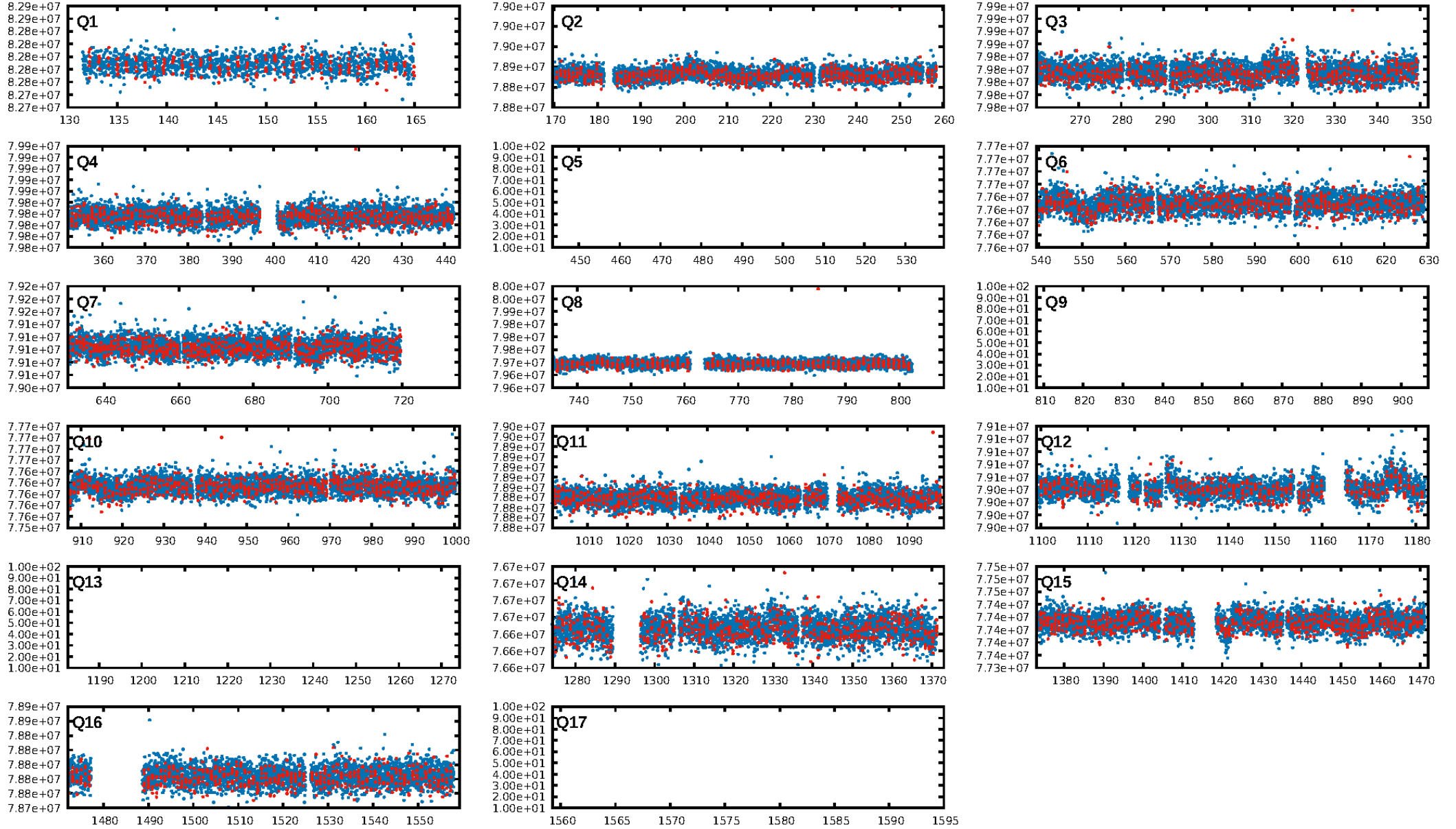
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.26e-69
RollingBand-fgt: 0.96 [1023/1064]
GhostDiagnostic-chr: 18.48
Centroid-sig: 18.5%
Centroid-so: 0.741 arcsec [1.07σ]
OotOffset-rm: 0.495 arcsec [2.33σ]
KicOffset-rm: 0.699 arcsec [3.14σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 1.00 [13/13]

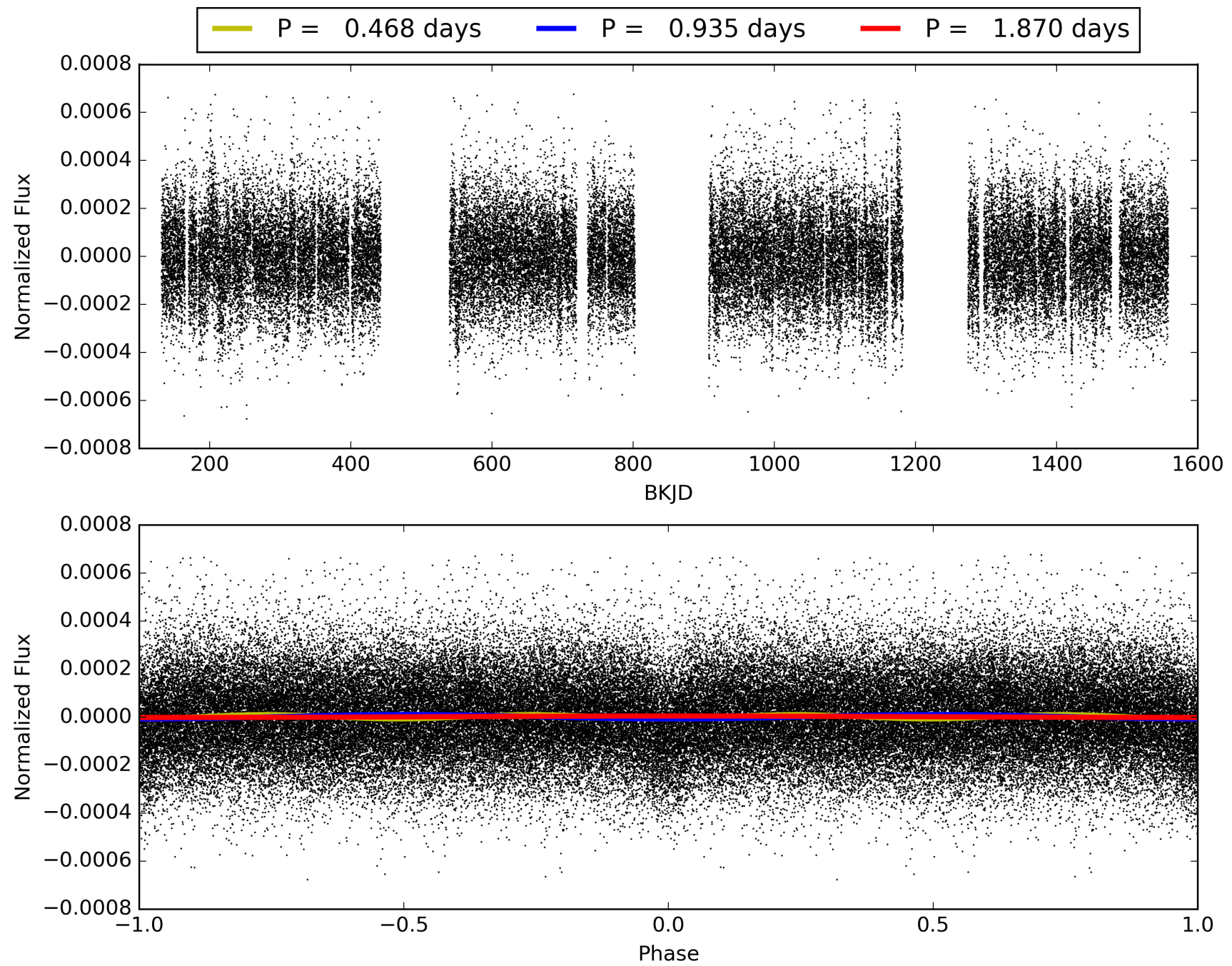
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:37:55 Z

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

TCE 006265792-01, PDC Light Curves

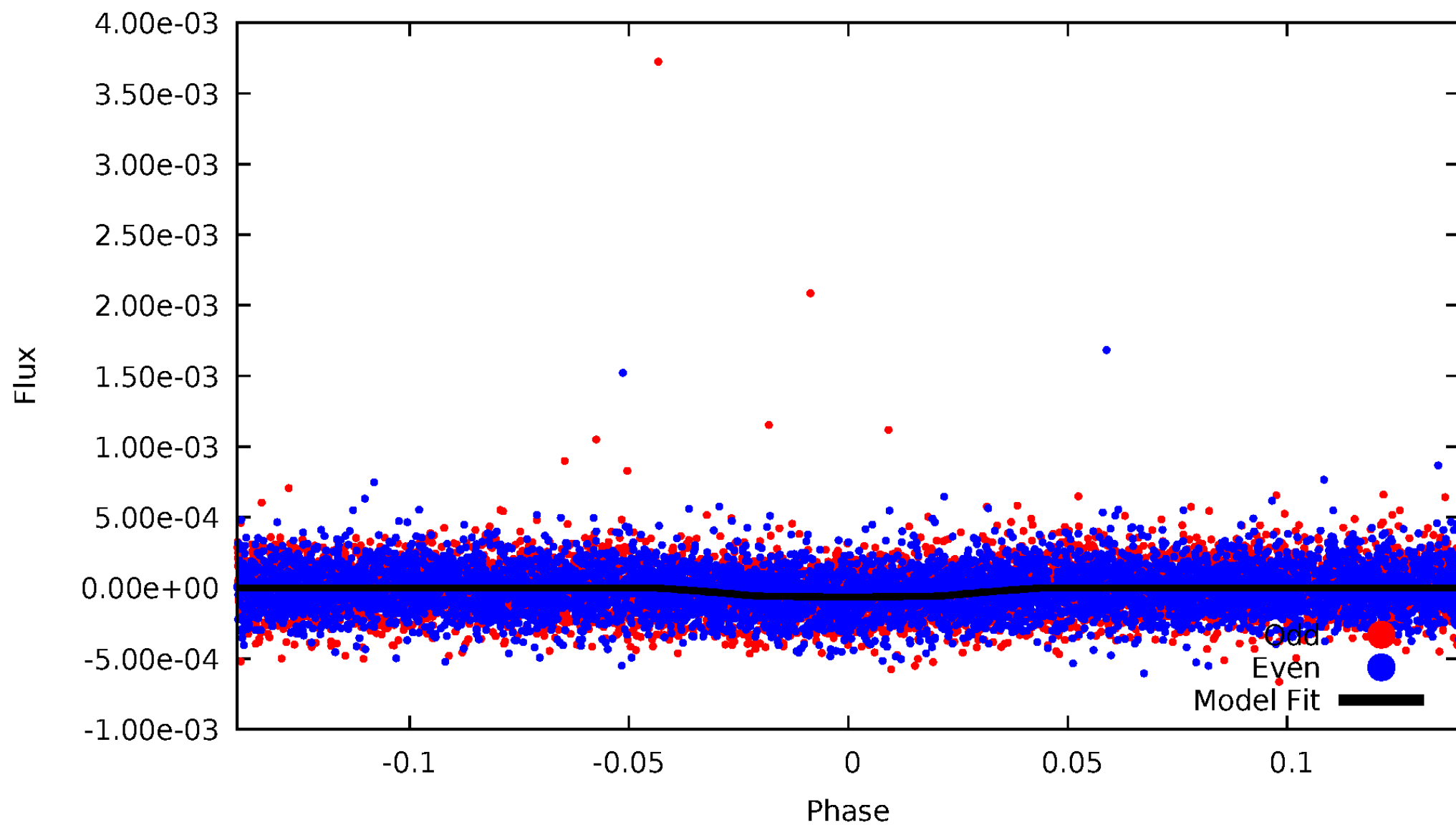


TCE 006265792-01



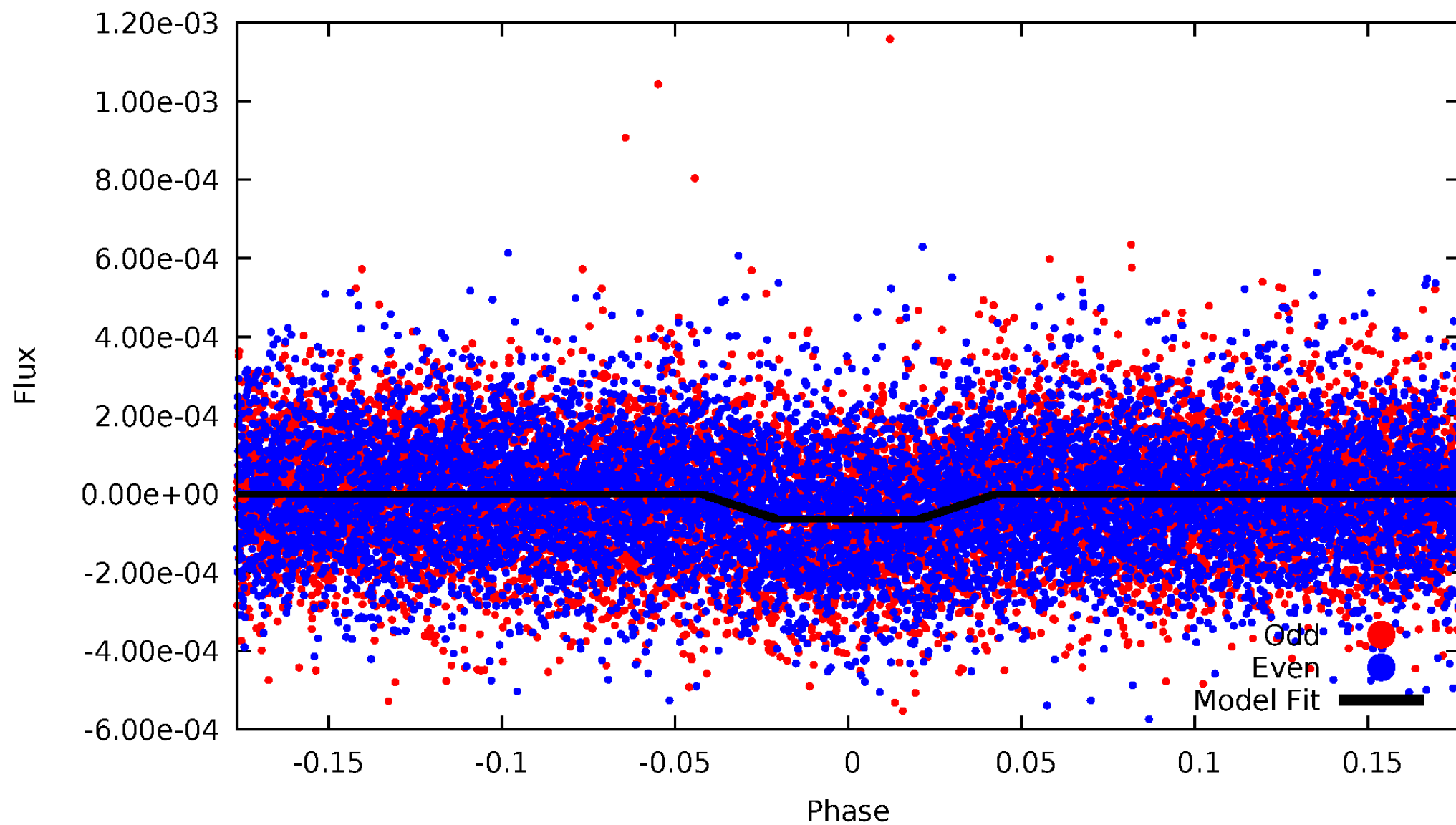
DV Odd/Even

TCE 006265792-01



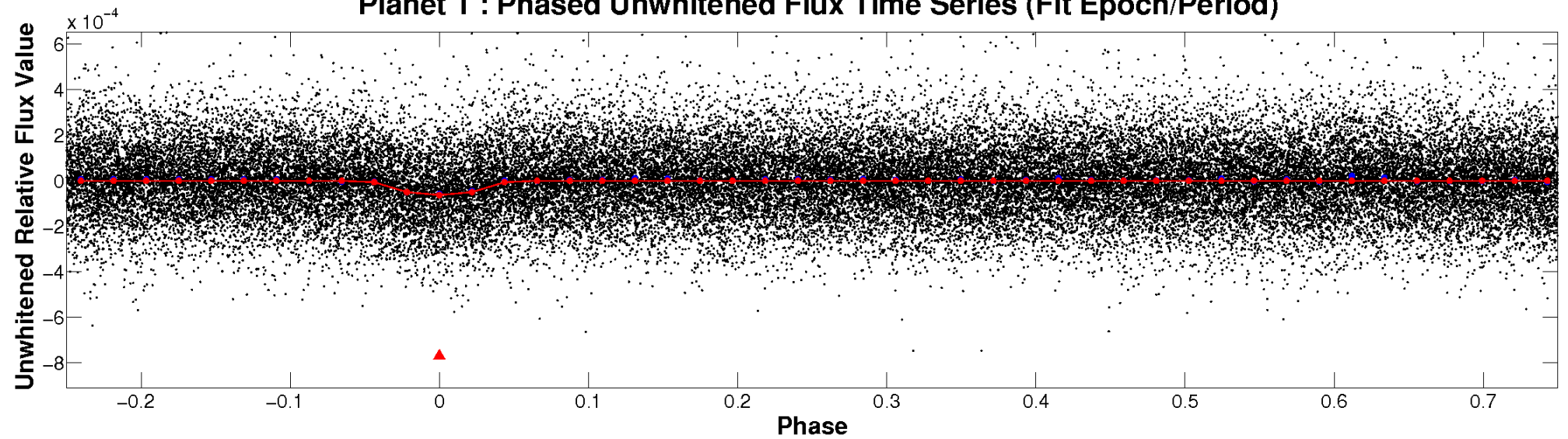
ALT Odd/Even

TCE 006265792-01

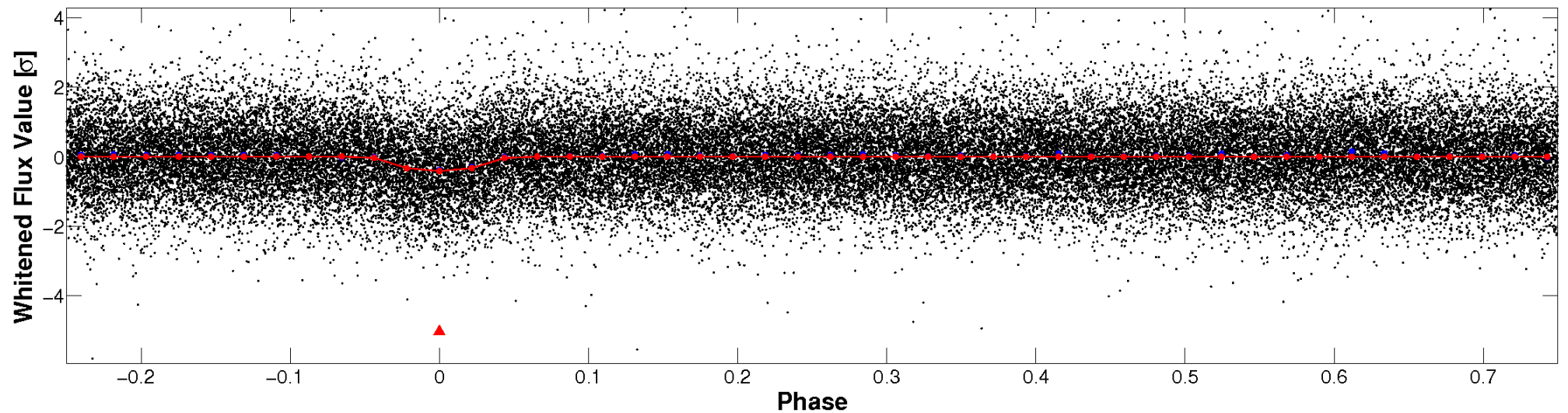


Non-Whitened Vs. Whitened Light Curve

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

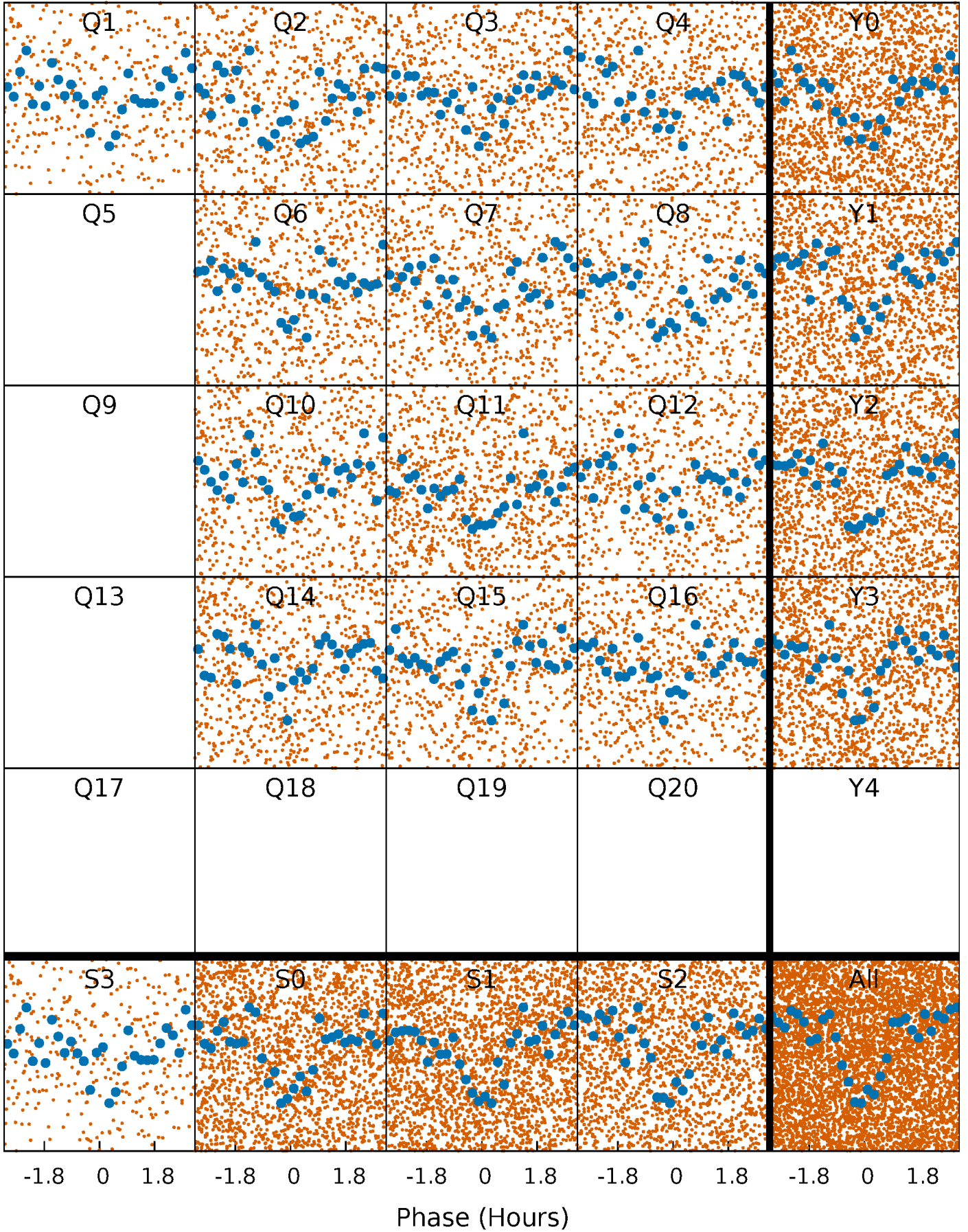


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



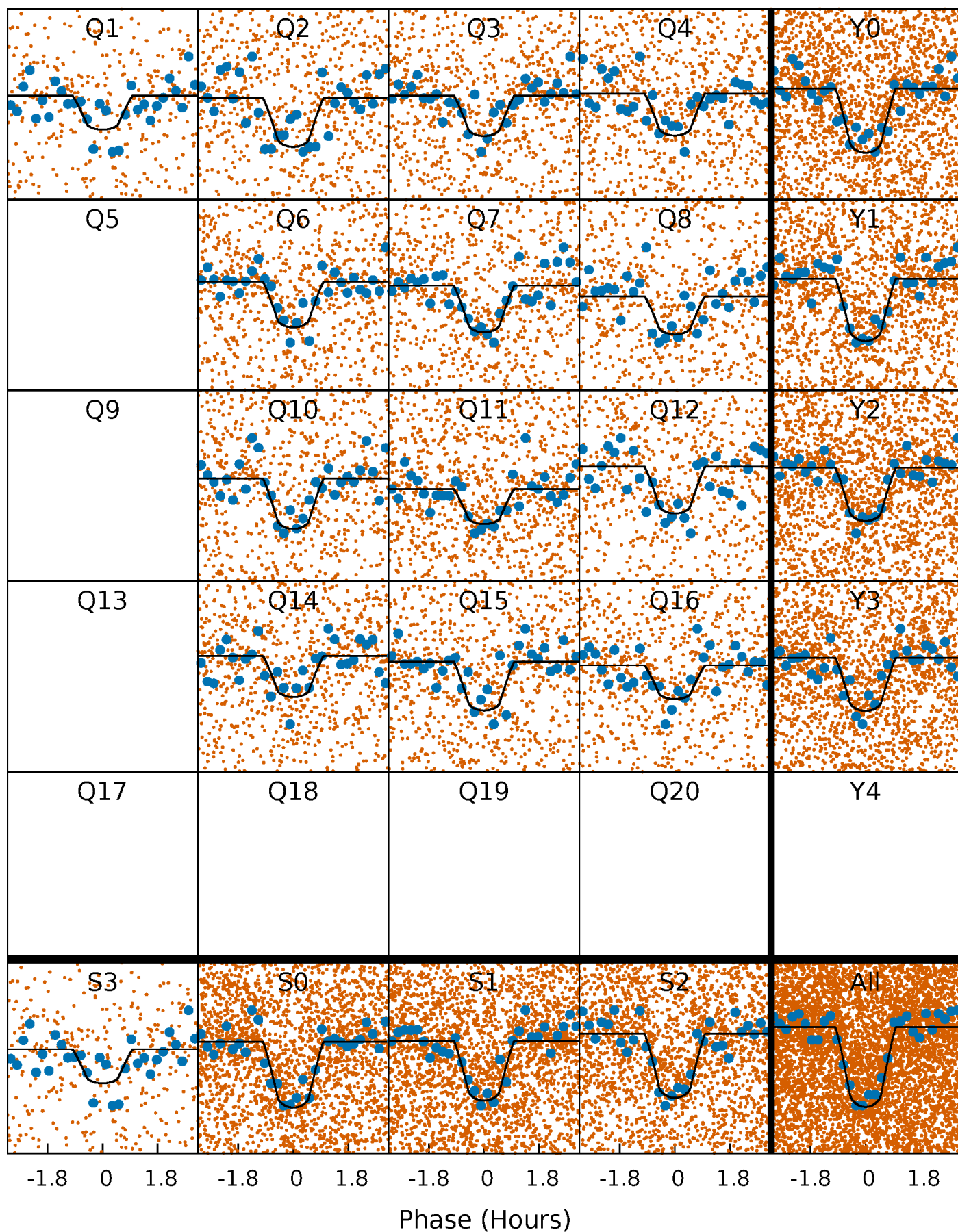
PDC Quarter-Phased Transit Curves

TCE 006265792-01 P= 0.935118 Days $T_0=132.202003$ (BKJD)



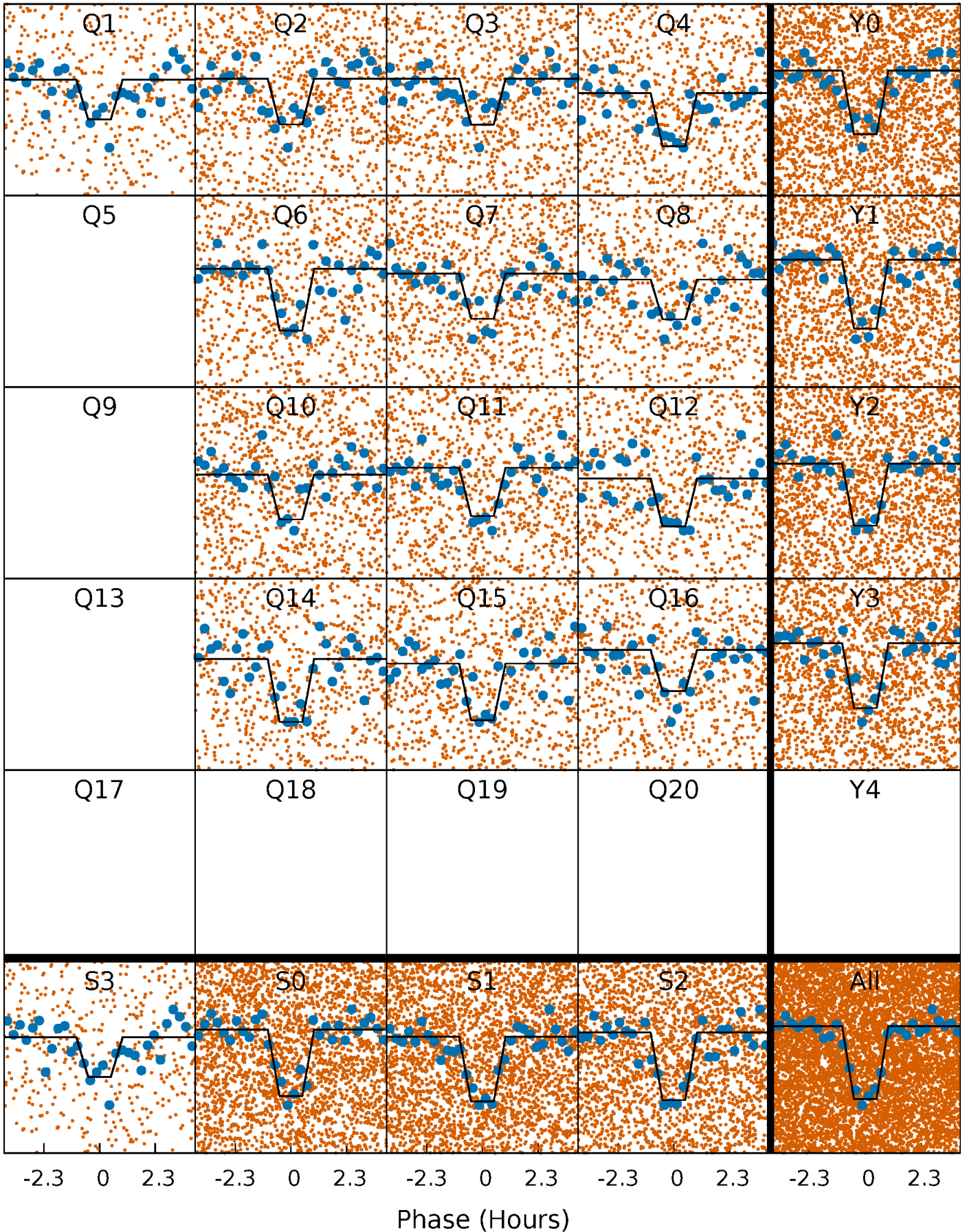
DV Quarter-Phased Transit Curves

TCE 006265792-01 P= 0.935118 Days $T_0=132.202003$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

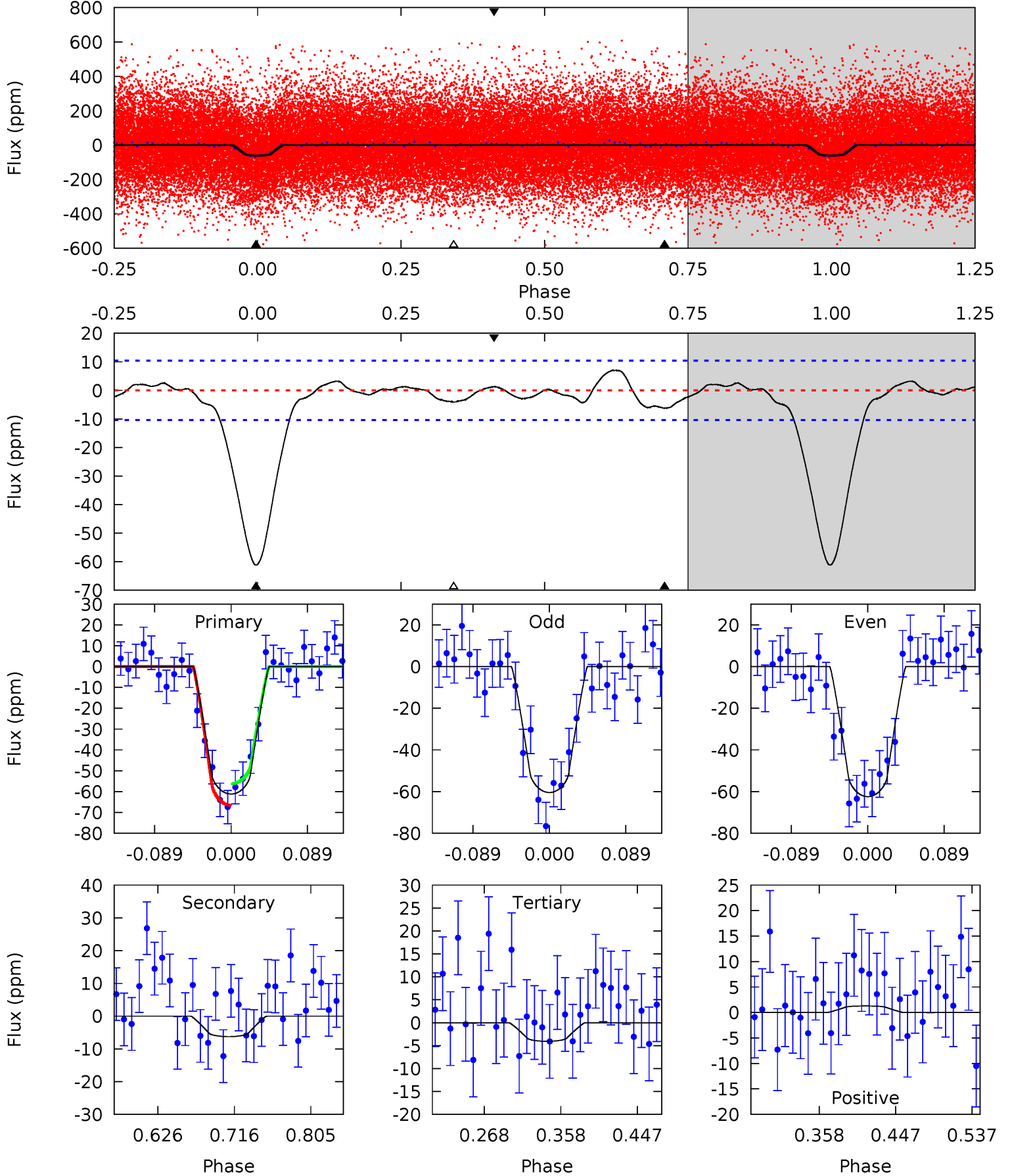
TCE 006265792-01 P= 0.935111 Days $T_0=132.205610$ (BKJD)



DV Model-Shift Uniqueness Test

006265792-01, P = 0.935118 Days, E = 131.266885 Days

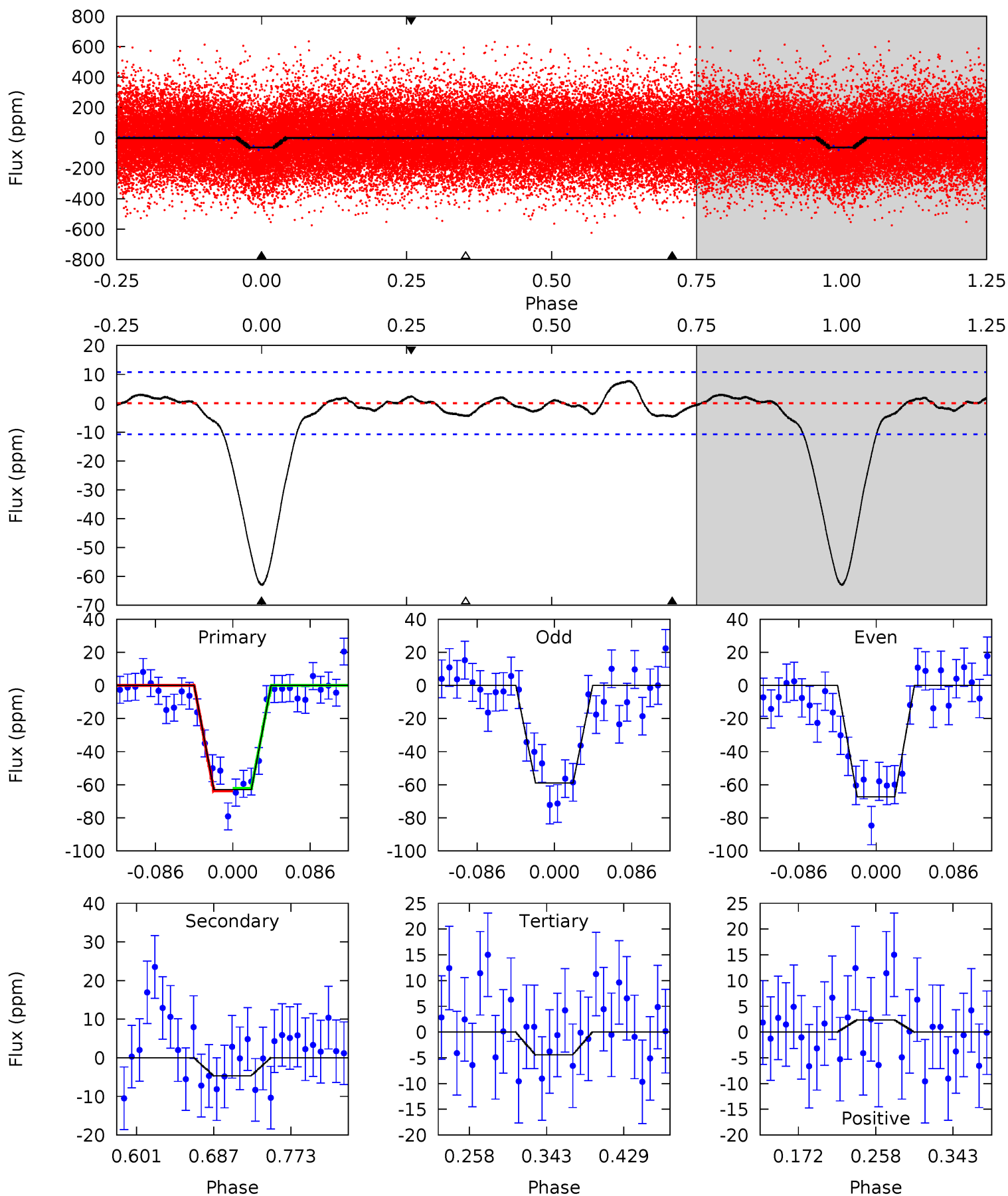
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.0	2.76	1.80	0.56	4.59	1.70	0.98	25.2	26.4	0.97	2.20	0.44	1.01	0.10	2.29



Alt Model-Shift Uniqueness Test

006265792-01, P = 0.935111 Days, E = 131.270499 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.8	1.98	1.88	1.00	4.60	1.72	0.98	24.9	25.8	0.10	0.98	1.76	0.92	0.11	0.33



Stellar Parameters For KIC 006265792

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5874^{+79}_{-79}	$4.252^{+0.137}_{-0.112}$	$0.160^{+0.150}_{-0.150}$	$1.297^{+0.207}_{-0.207}$	$1.096^{+0.078}_{-0.078}$	$0.707^{+0.446}_{-0.232}$
	+1%/-1%	+3%/-3%	+94%/-94%	+16%/-16%	+7%/-7%	+63%/-33%
Source	SPE90	SPE90	SPE90	DSEP		

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

Secondary Eclipse Parameters for KIC 006265792-01 / KOI 2753.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-6 ± 2	$1.21^{+0.47}_{-0.43}$	2958^{+128}_{-142}	3315^{+759}_{-766}	$0.815^{+1.250}_{-0.438}$
Alt.	-5 ± 2	$1.12^{+0.46}_{-0.43}$	2964^{+119}_{-128}	3227^{+755}_{-5515}	$0.738^{+1.168}_{-0.471}$

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

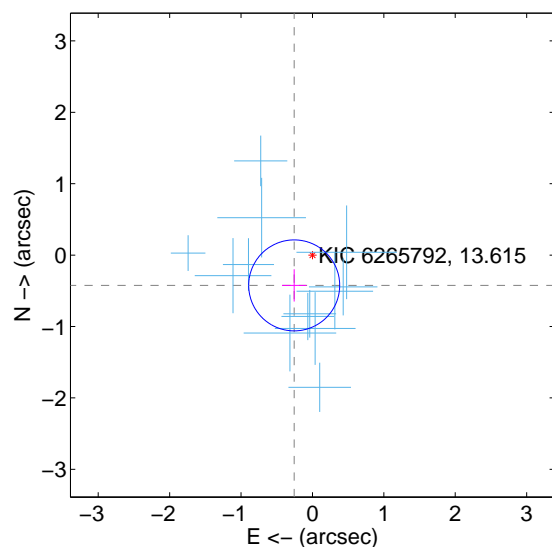
Supplemental centroid analysis for 006265792-01. Kepler magnitude: 13.62. Transit SNR 19.94

There are 13 quarters with good PRF difference image offsets

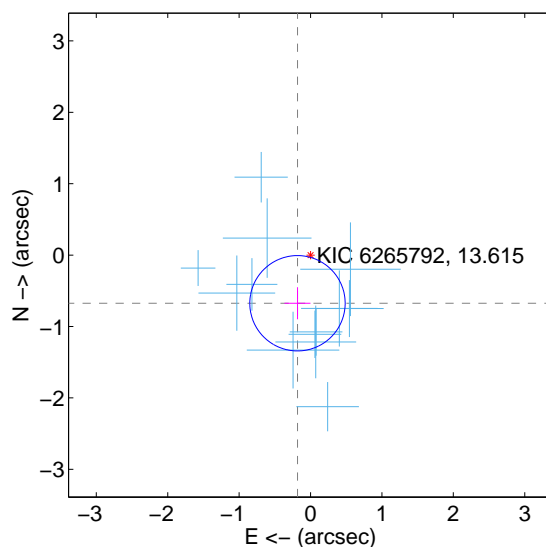
The direct PRF centroid is offset from the target star catalog position by about 0.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.495 ± 0.212	2.33	0.255 ± 0.171	-0.424 ± 0.225
PRF-fit source offset from KIC position	0.699 ± 0.223	3.14	0.183 ± 0.182	-0.674 ± 0.225
photometric centroid source offset	0.74 ± 0.69	1.07	-0.58 ± 0.69	0.47 ± 0.71

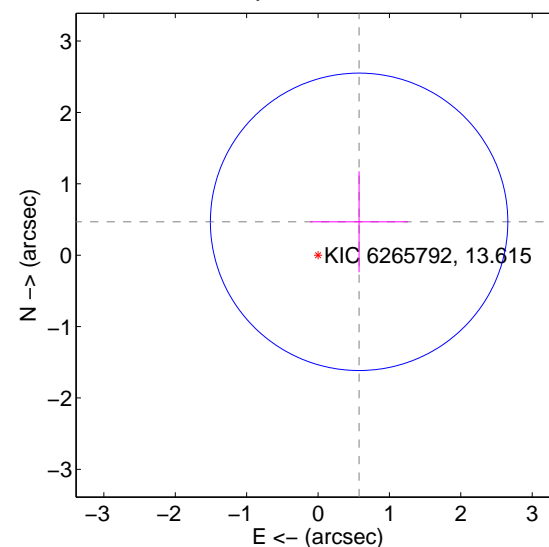
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

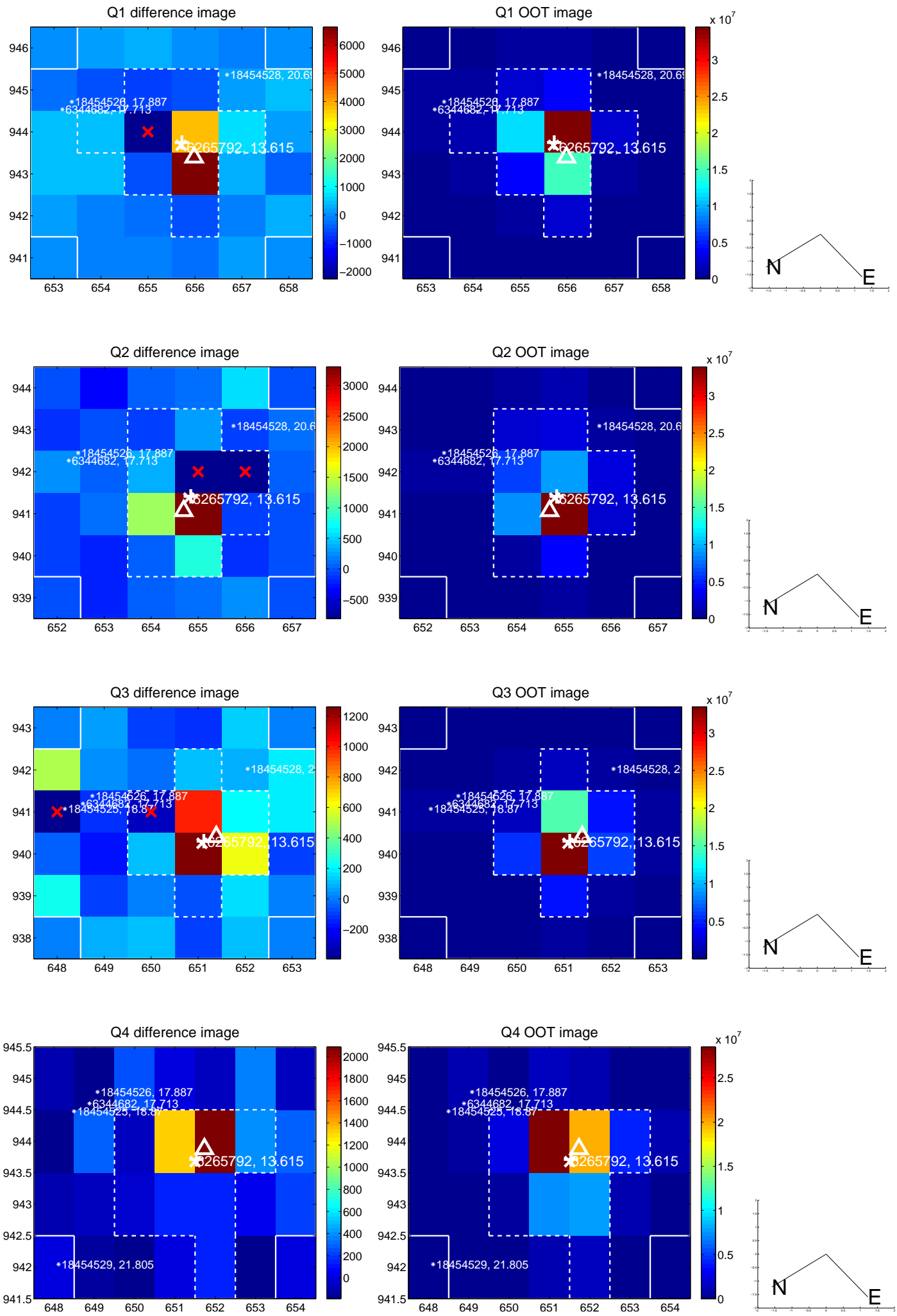


offset from photometric centroids

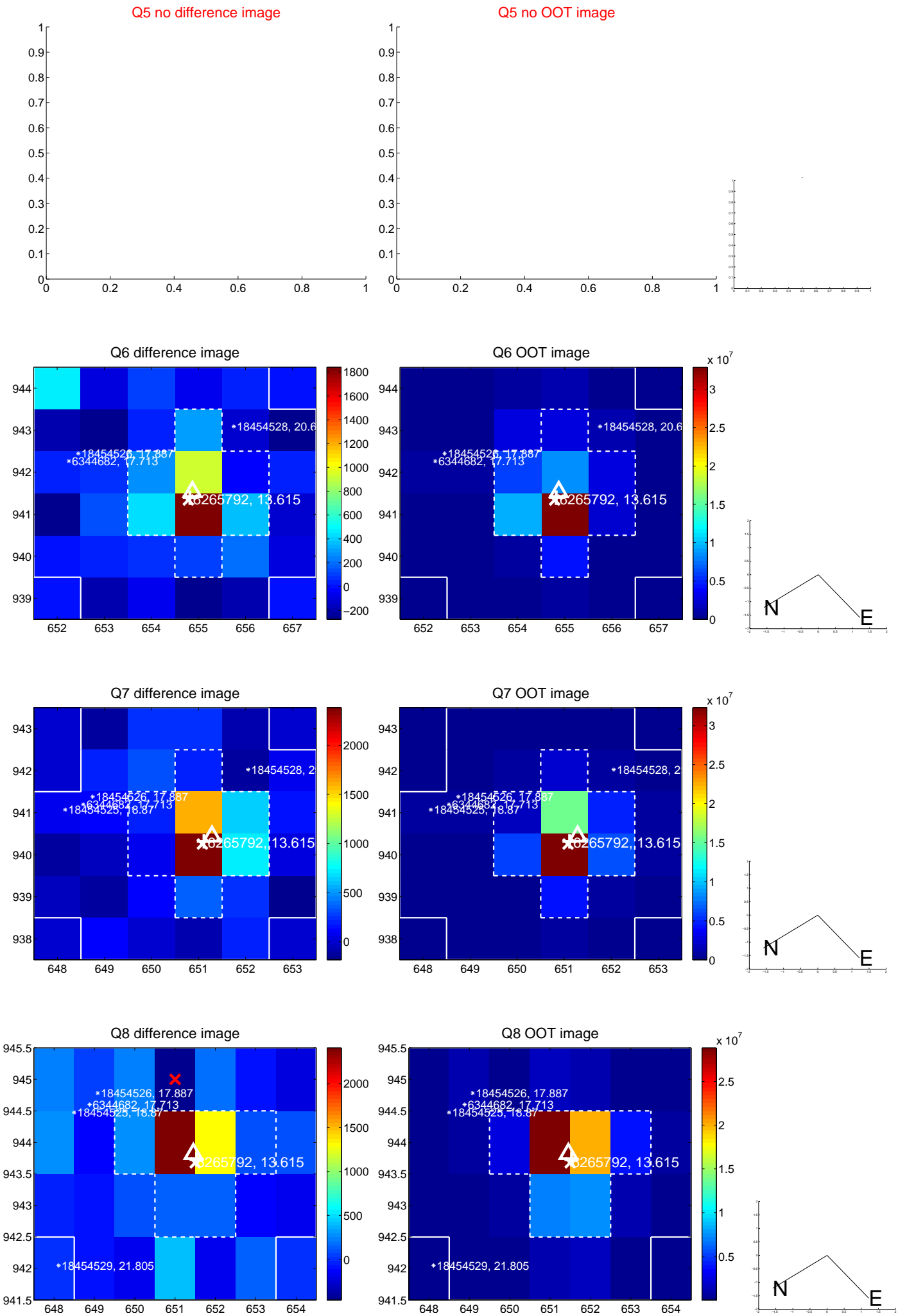


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

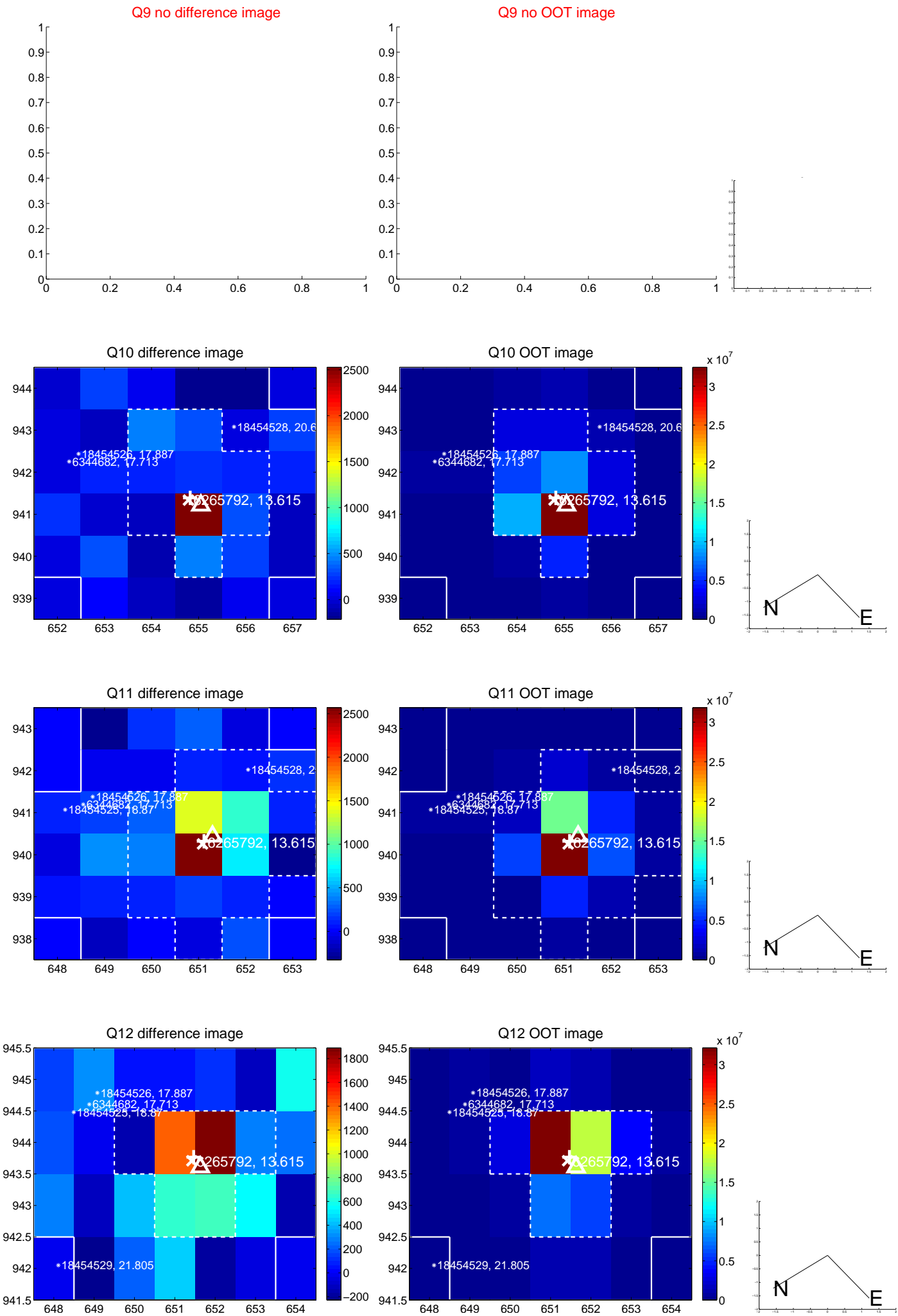
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



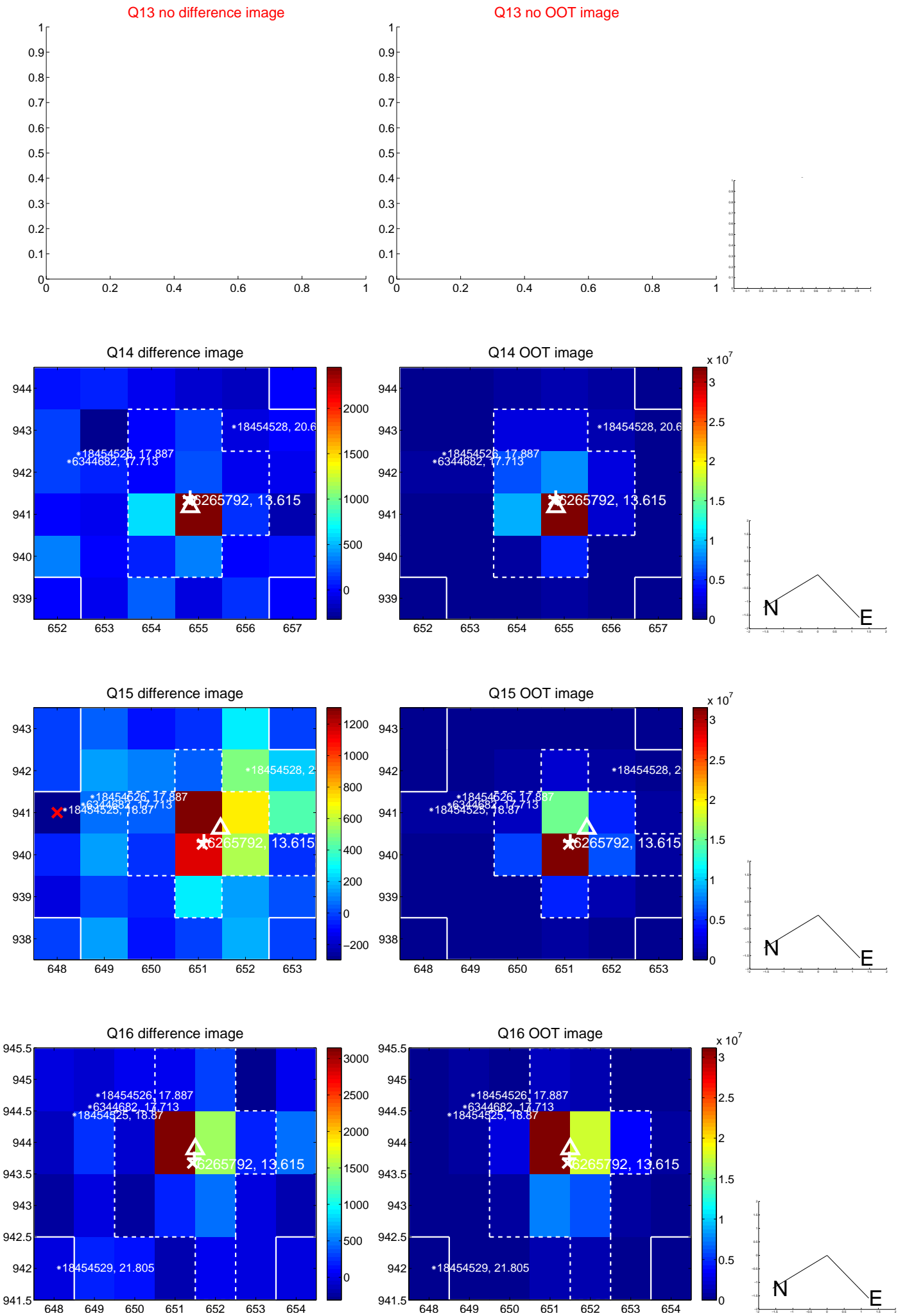
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



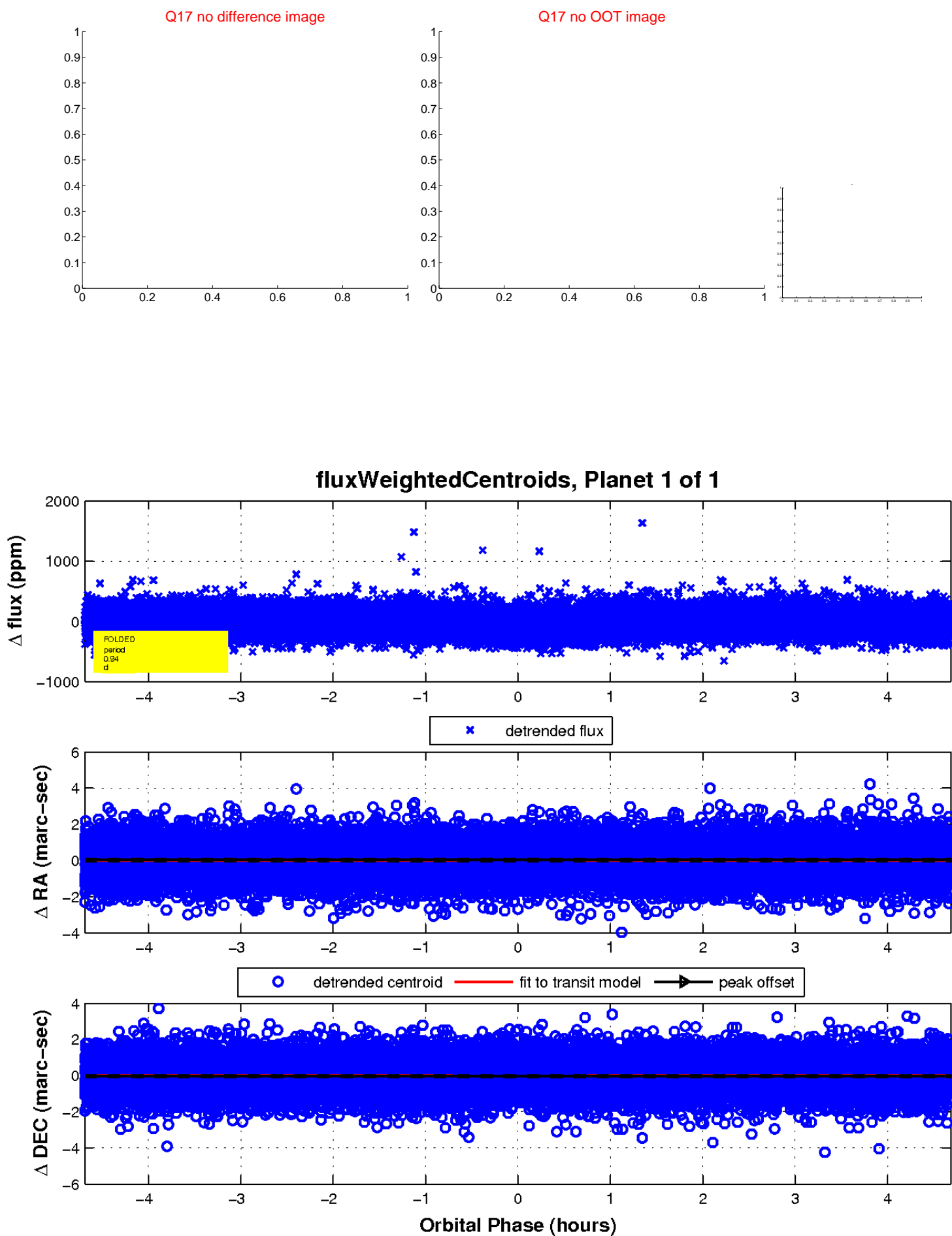
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

