

KIC 006792908

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})
006792908-01	OBS	4341.01	10.778382	136.609333	80.2	5.257	11.8	12.2	1.26	6726	1.30	306.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006792908-01	OBS	PC	1.00	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 006792908-01

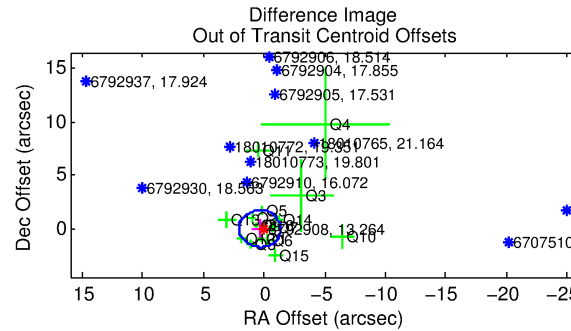
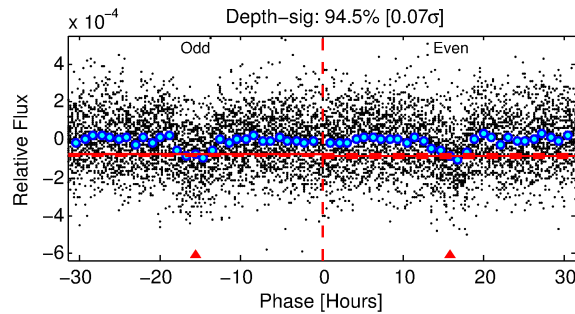
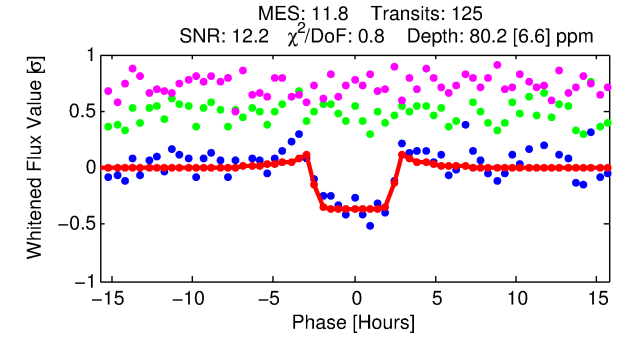
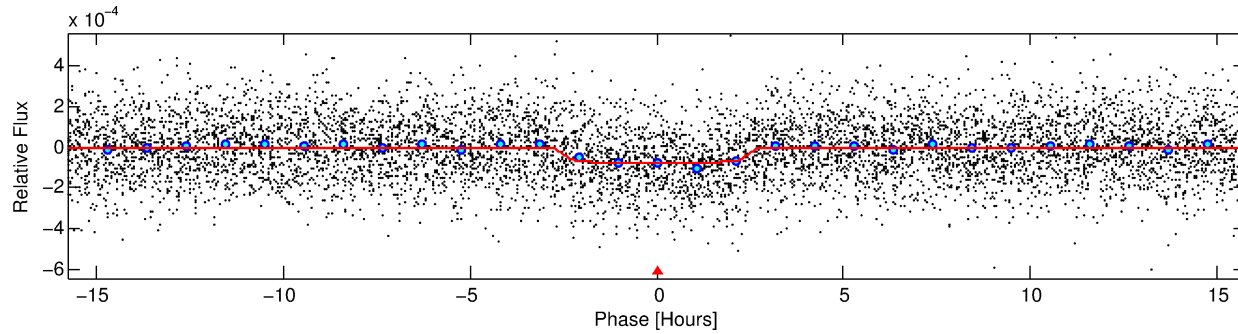
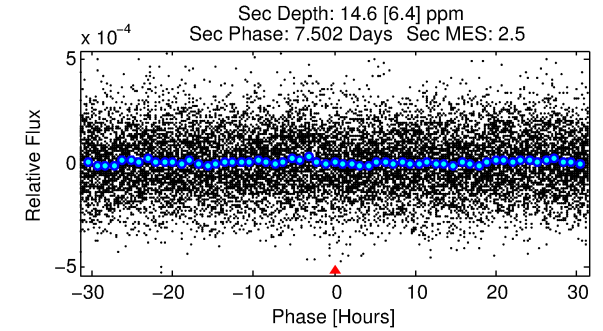
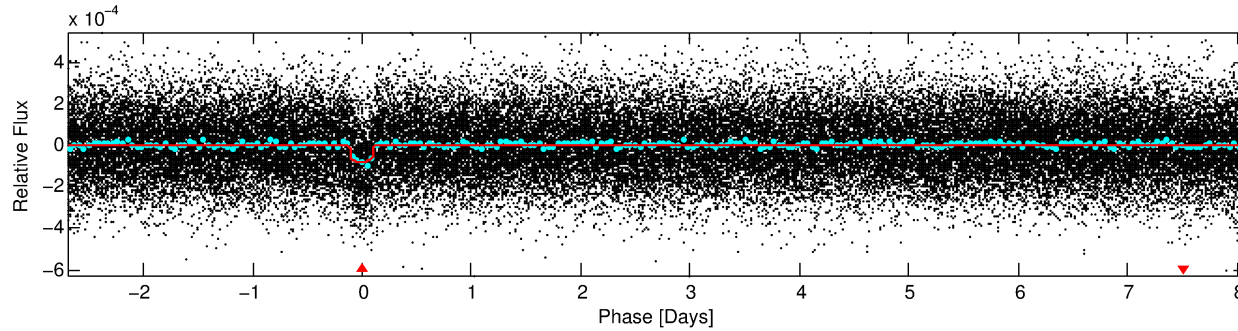
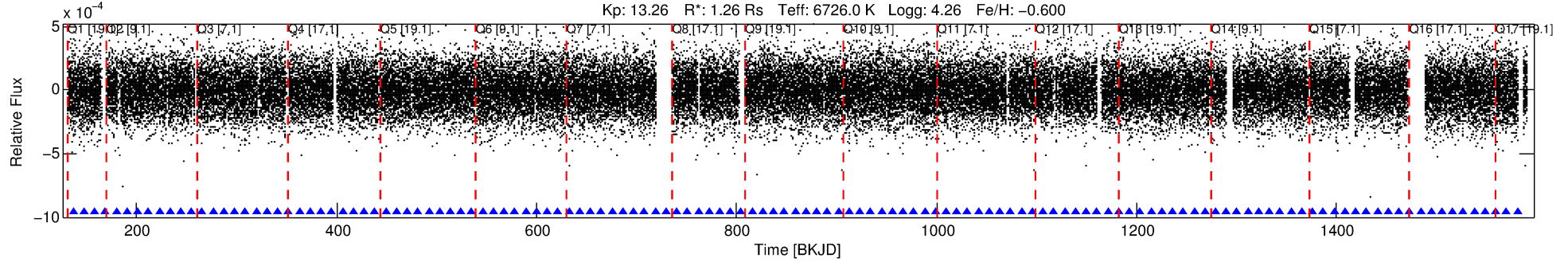
No Significant Match Found

DV One-Page Summary

KIC: 6792908 Candidate: 1 of 1 Period: 10.778 d

KOI: K04341.01 Corr: 0.984

Kp: 13.26 R*: 1.26 Rs Teff: 6726.0 K Logg: 4.26 Fe/H: -0.600



DV Fit Results:

Period = 10.77838 [0.00008] d
Epoch = 136.6093 [0.0057] BKJD
Rp/R* = 0.0095 [0.0021]
a/R* = 7.63 [9.62]
b = 0.89 [0.31]
Seff = 306.88 [113.25]
Teq = 1067 [98] K
Rp = 1.30 [0.46] Re
a = 0.0972 [0.0226] AU
Ag = 45.16 [31.78] [1.39σ]
Teffp = 4278 [682] K [4.66σ]

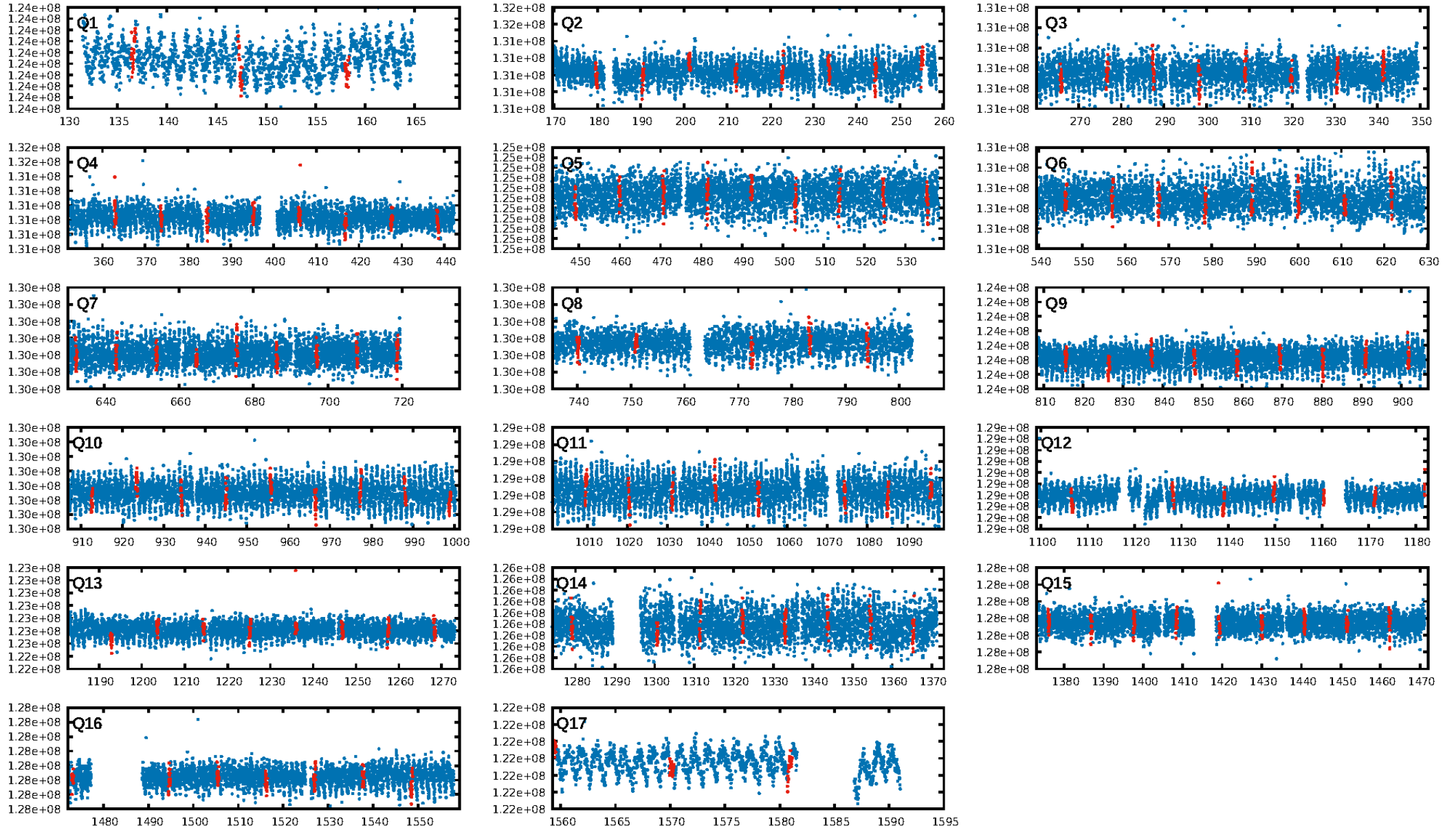
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 97.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.57e-29
RollingBand-fgt: 1.00 [119/119]
GhostDiagnostic-chr: -6.409
Centroid-sig: 14.4%
Centroid-so: 0.857 arcsec [1.43σ]
OotOffset-rm: 0.358 arcsec [0.62σ]
KicOffset-rm: 0.399 arcsec [0.65σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.56 [9/16]
DiffImageOverlap-fno: 1.00 [17/17]

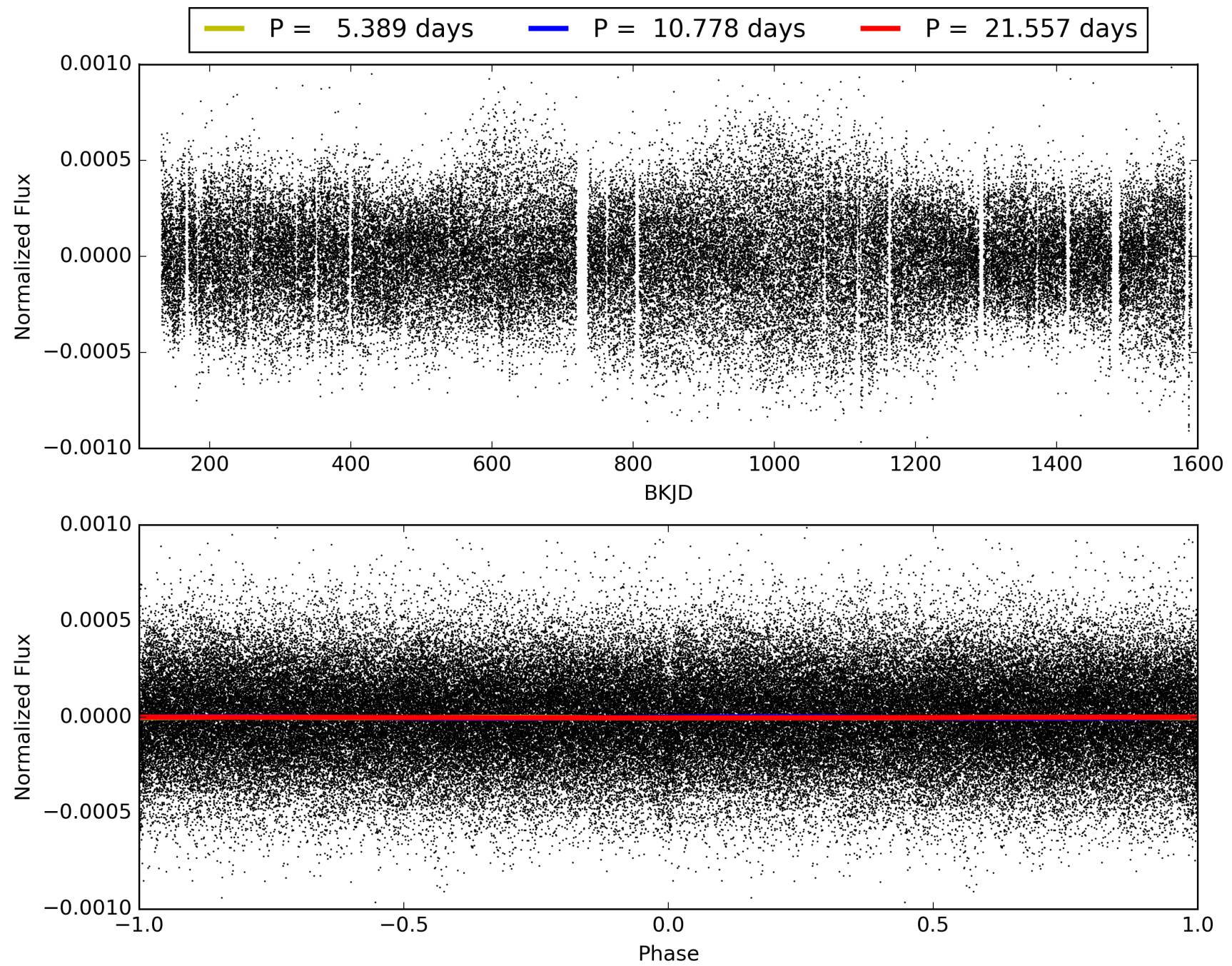
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:04:59 Z

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

TCE 006792908-01, PDC Light Curves

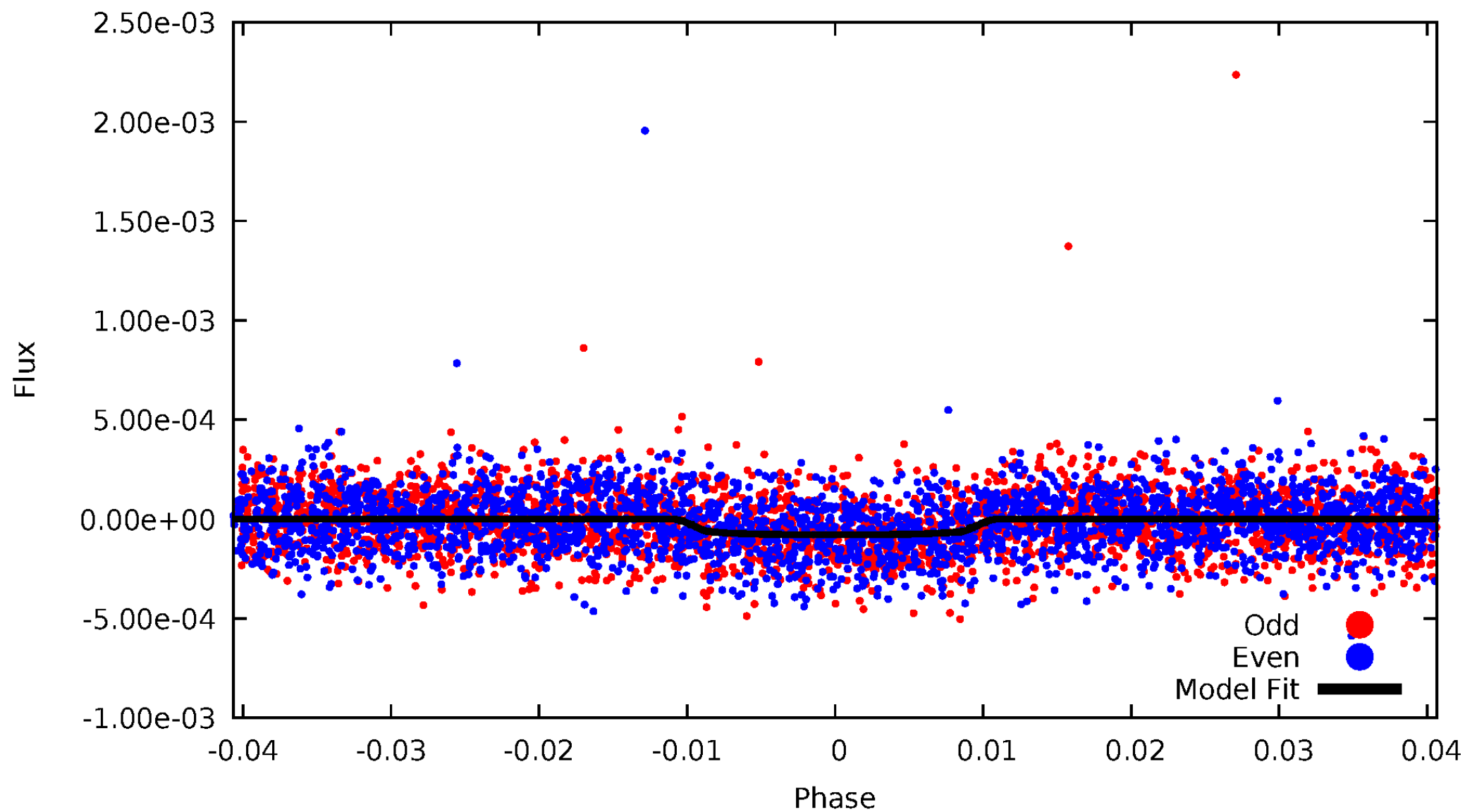


TCE 006792908-01



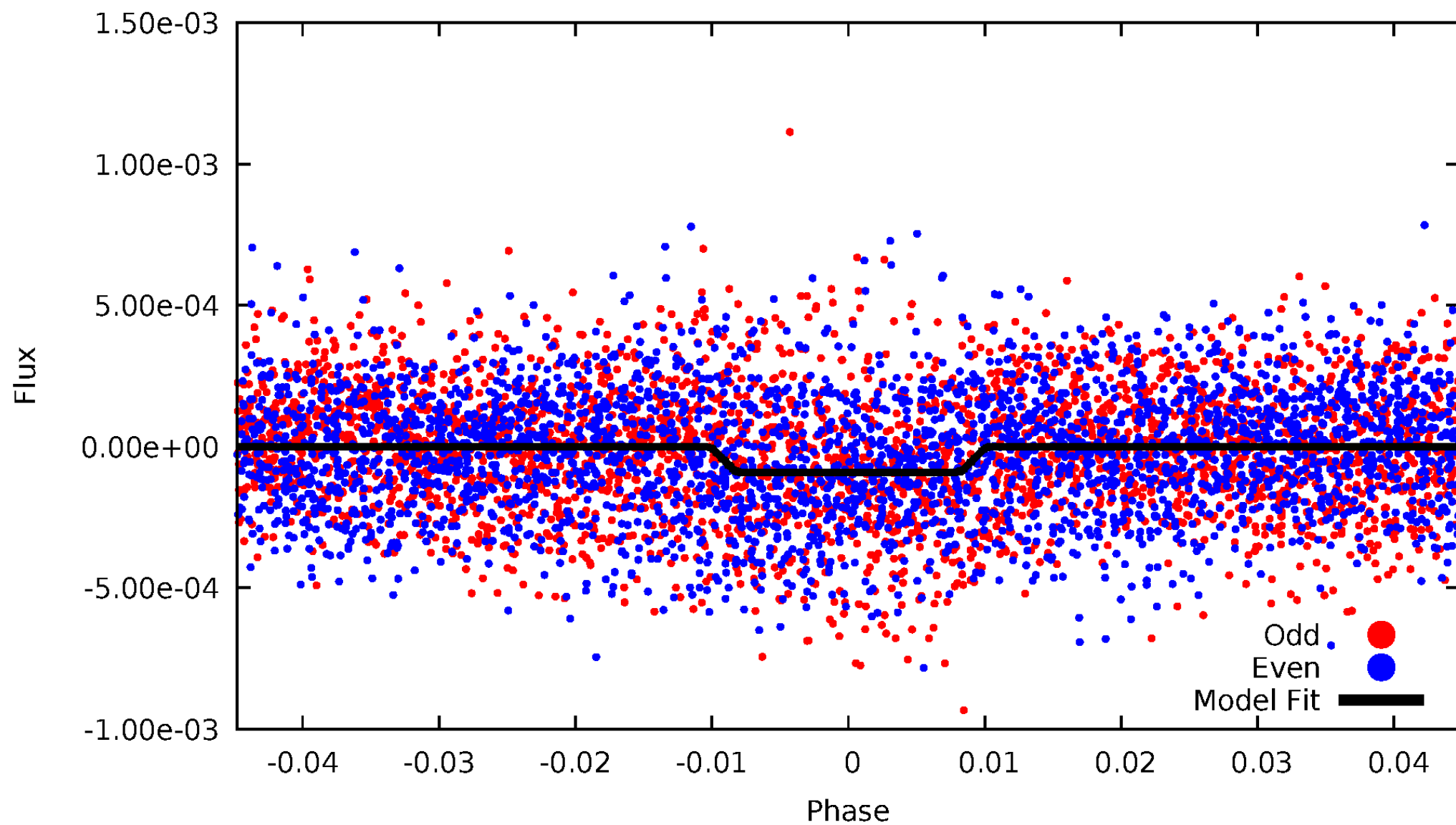
DV Odd/Even

TCE 006792908-01



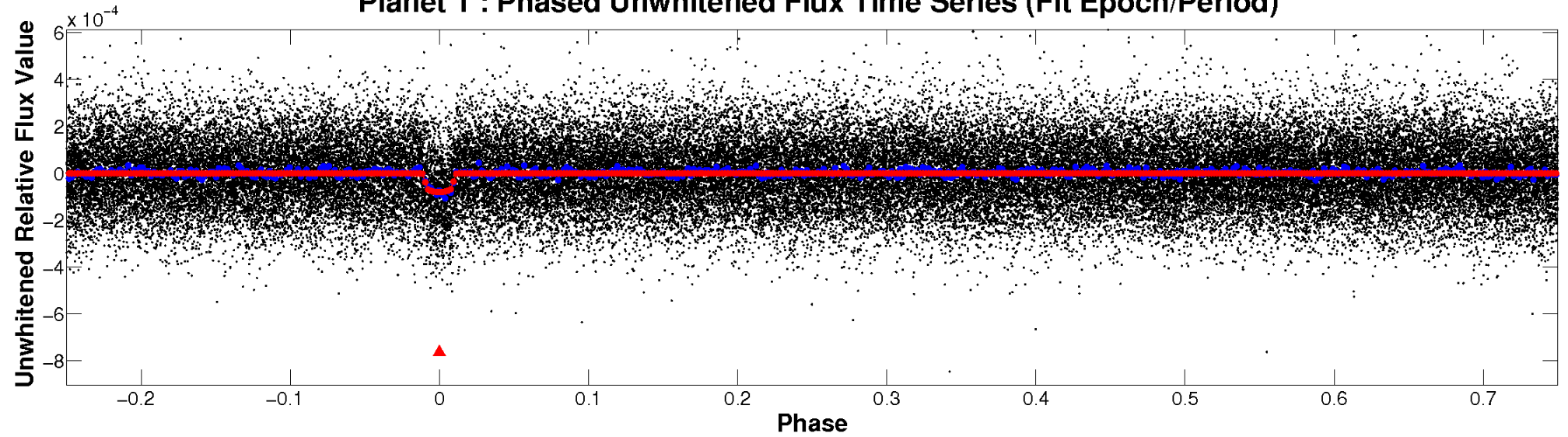
ALT Odd/Even

TCE 006792908-01

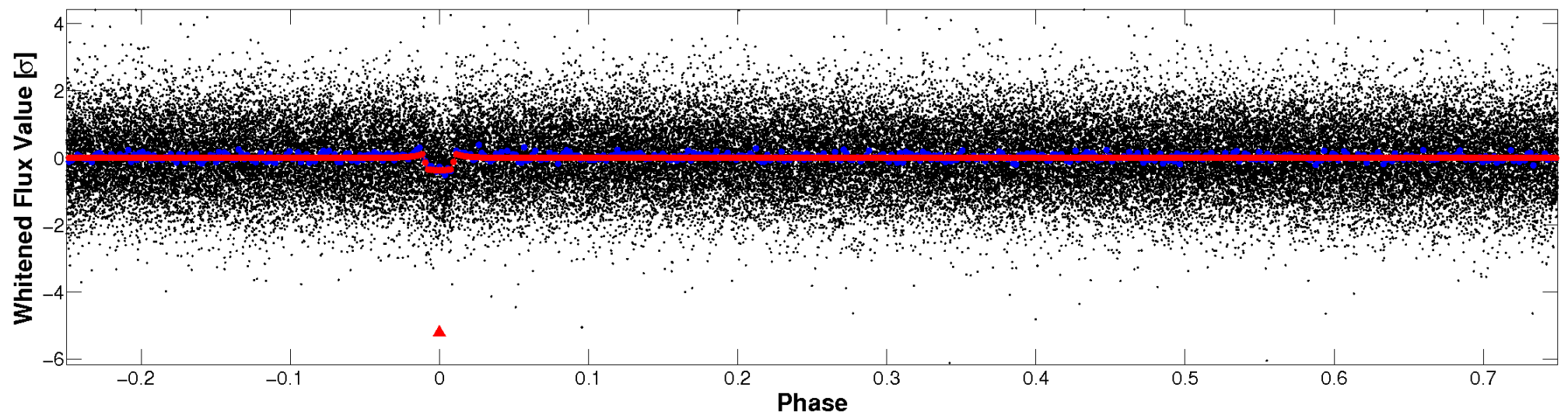


Non-Whitened Vs. Whitened Light Curve

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

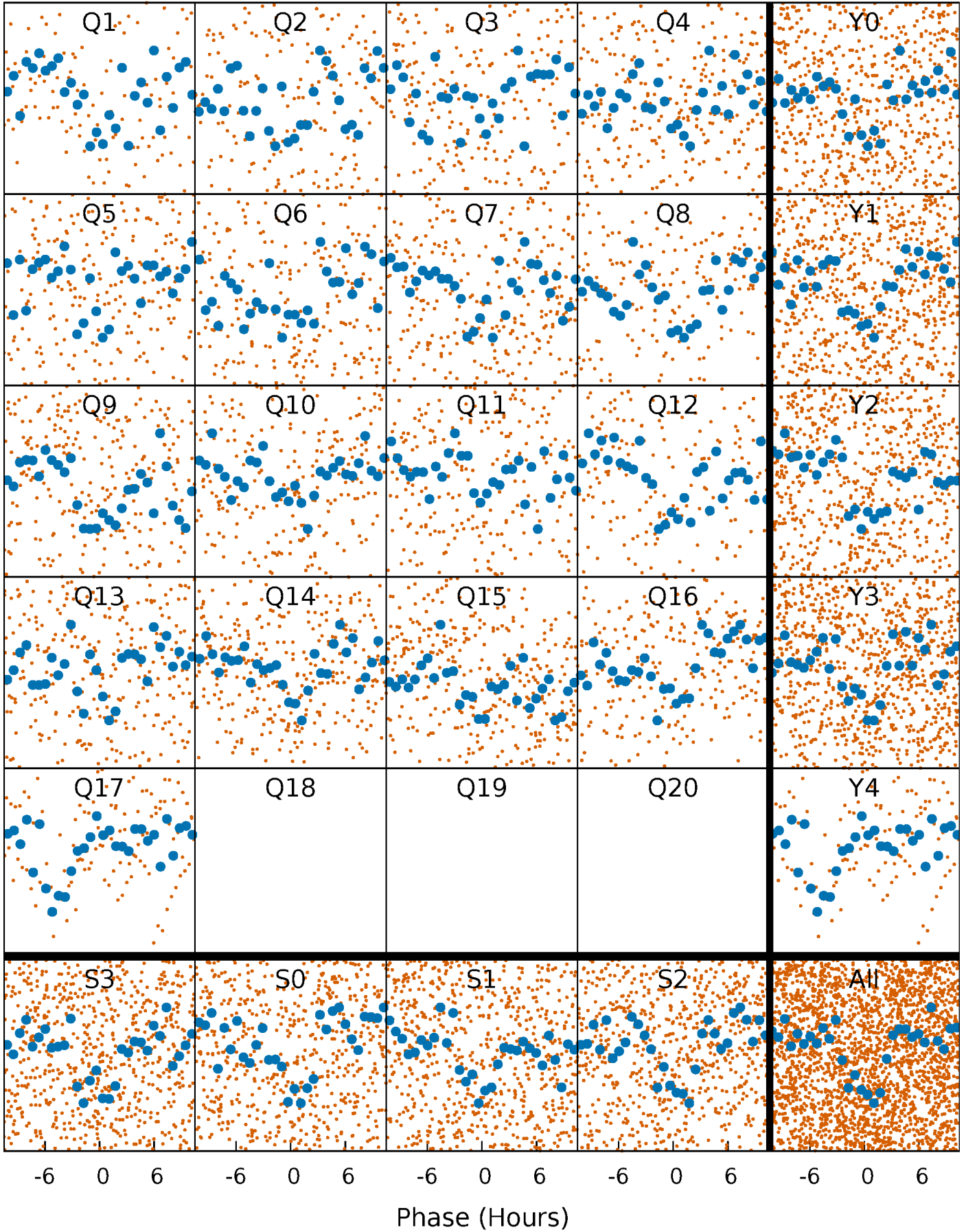


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



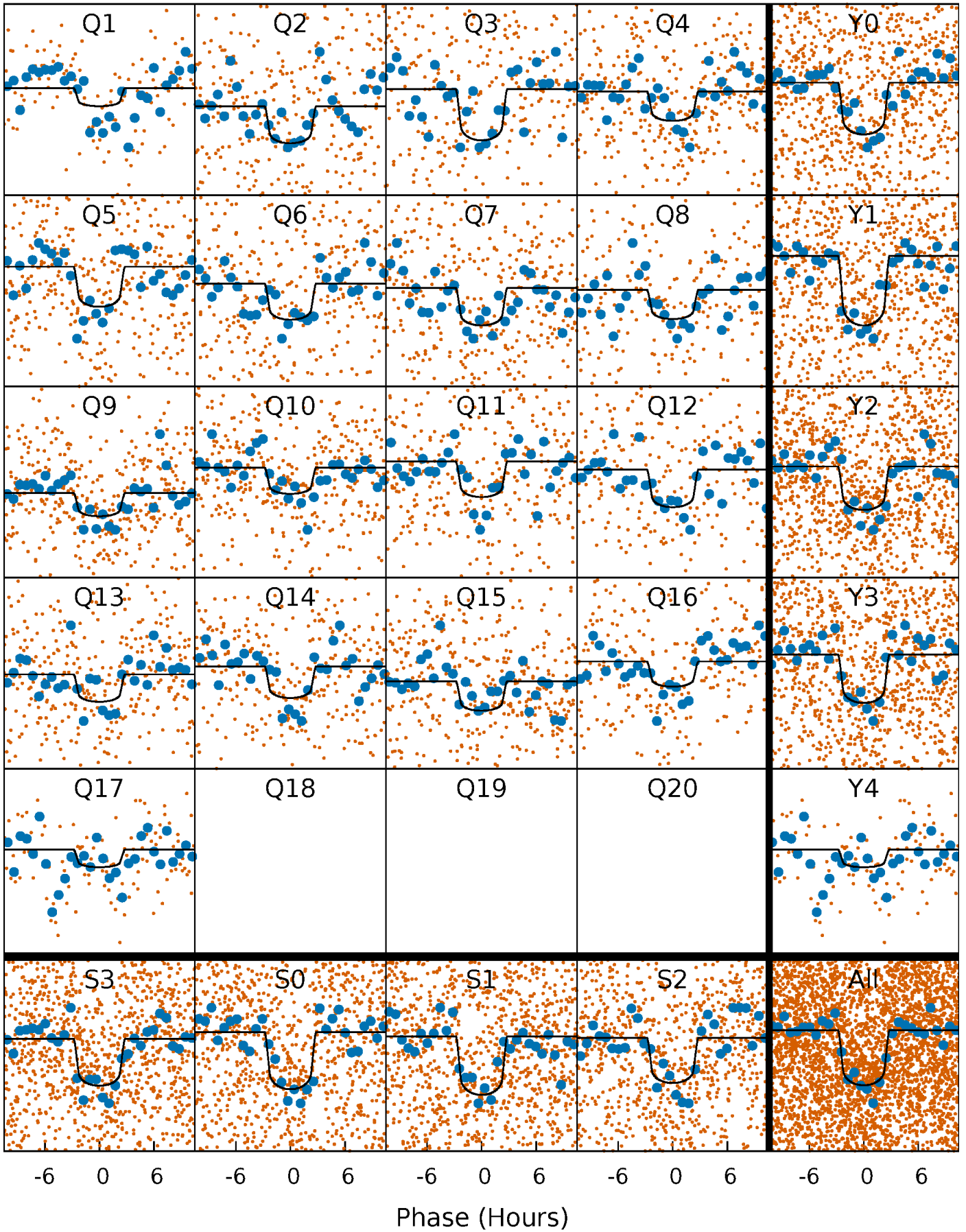
PDC Quarter-Phased Transit Curves

TCE 006792908-01 P= 10.778382 Days $T_0=136.609333$ (BKJD)



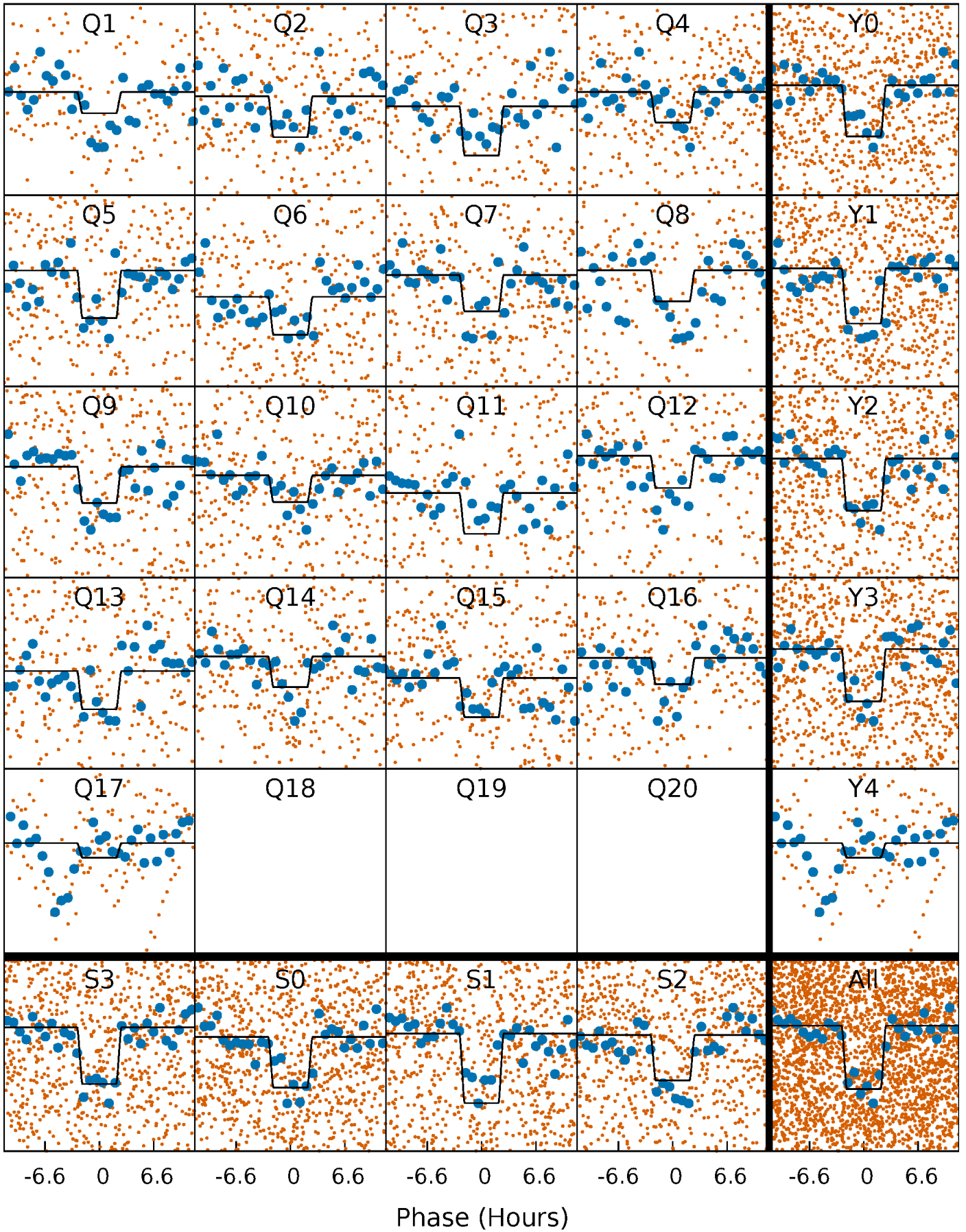
DV Quarter-Phased Transit Curves

TCE 006792908-01 P= 10.778382 Days $T_0=136.609333$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

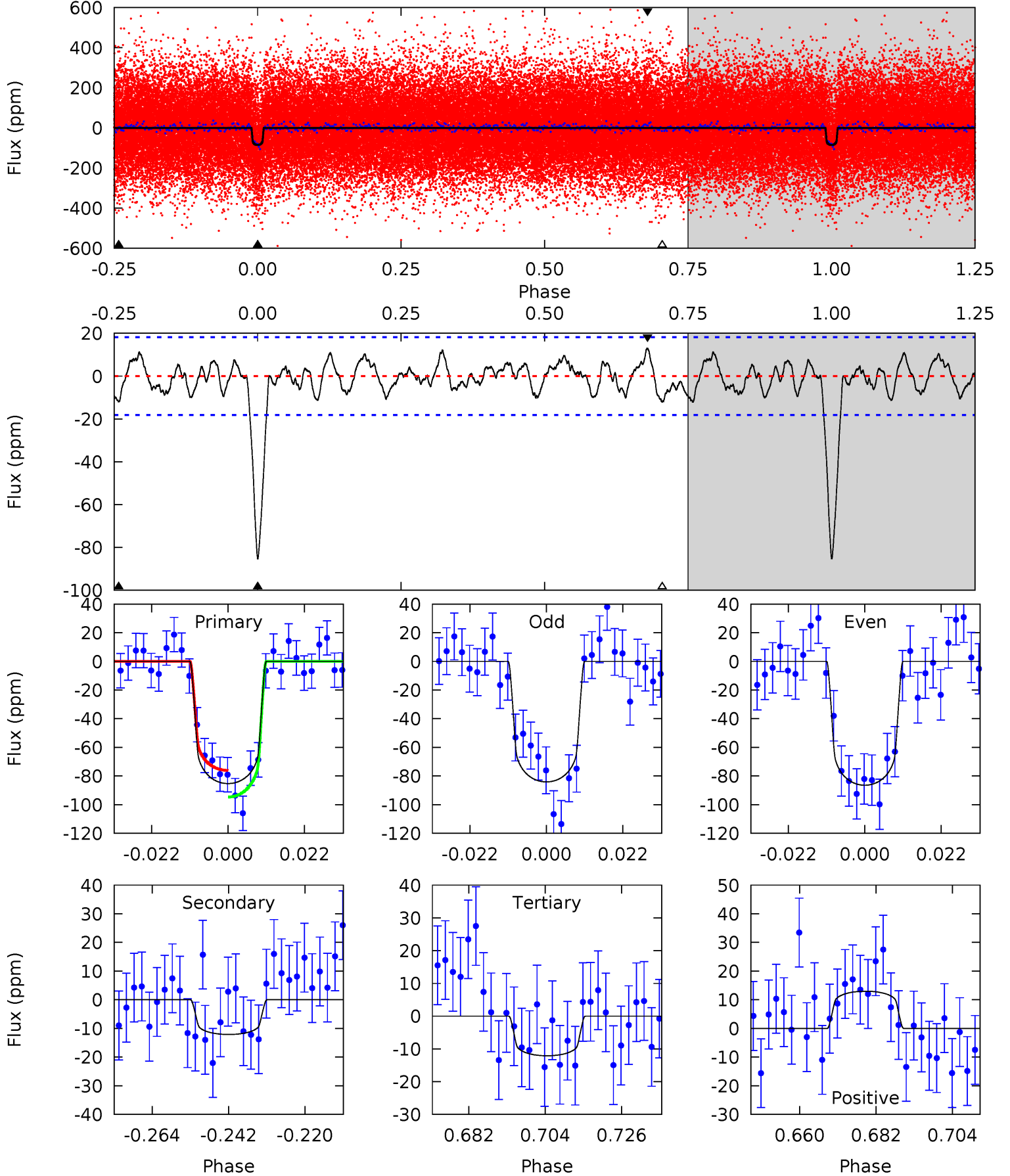
TCE 006792908-01 P= 10.778547 Days $T_0=136.596408$ (BKJD)



DV Model-Shift Uniqueness Test

006792908-01, $P = 10.778382$ Days, $E = 125.830951$ Days

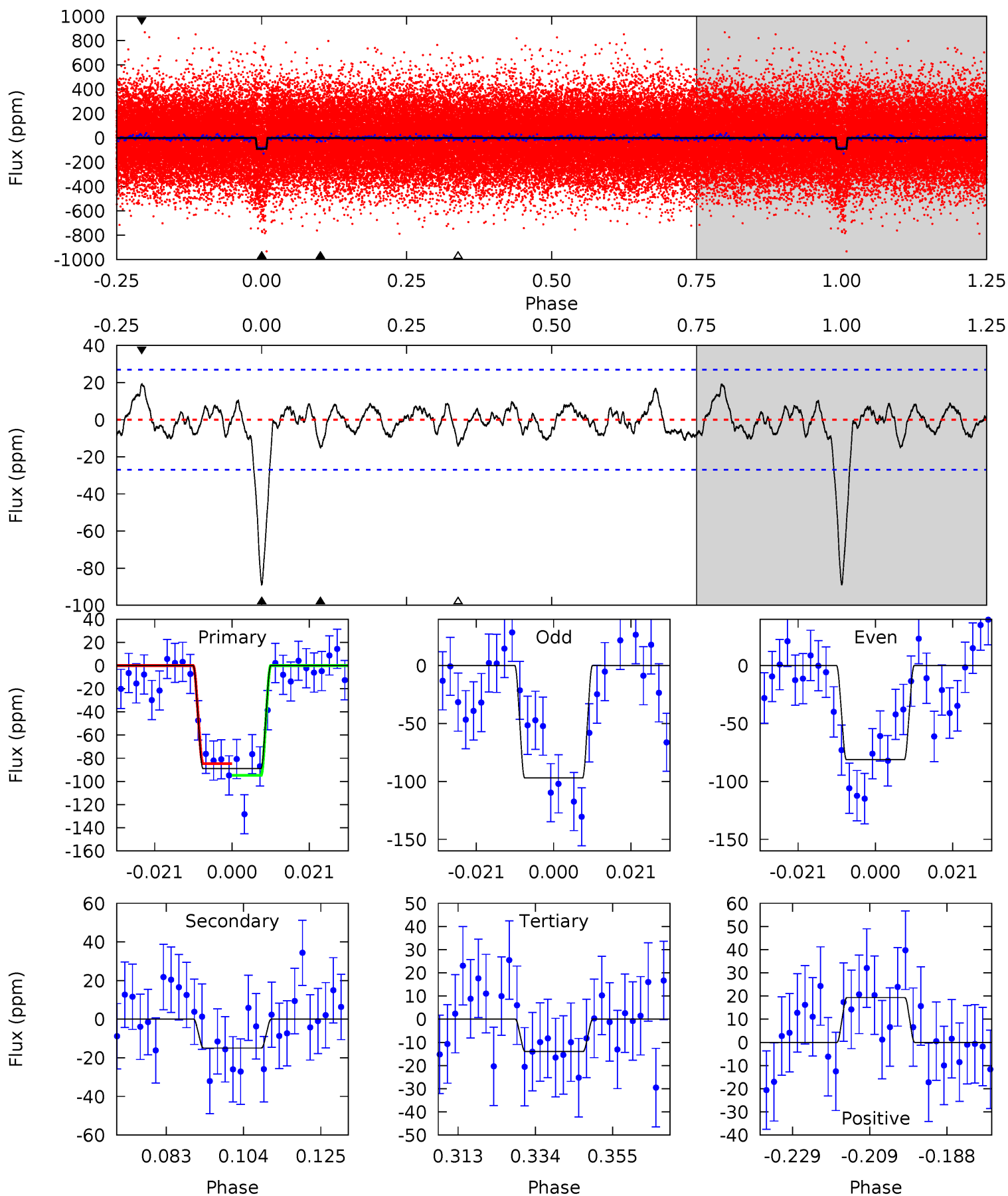
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.9	3.25	3.25	3.48	4.87	2.29	1.46	19.6	19.4	0.00	-0.23	0.31	0.95	0.13	2.49



Alt Model-Shift Uniqueness Test

006792908-01, $P = 10.778547$ Days, $E = 125.817861$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.1	2.71	2.53	3.50	4.88	2.31	1.08	13.6	12.6	0.18	-0.79	1.42	0.85	0.18	0.92



Stellar Parameters For KIC 006792908

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6726^{+212}_{-259}	$4.262^{+0.149}_{-0.182}$	$-0.600^{+0.300}_{-0.350}$	$1.258^{+0.350}_{-0.234}$	$1.054^{+0.158}_{-0.118}$	$0.746^{+0.556}_{-0.371}$
	+3%/-4%	+3%/-4%	+50%/-58%	+28%/-19%	+15%/-11%	+74%/-50%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006792908-01 / KOI 4341.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-12 ± 4	$1.31^{+0.35}_{-0.31}$	1492^{+114}_{-98}	4285^{+496}_{-415}	37^{+28}_{-17}
Alt.	-15 ± 6	$1.32^{+0.37}_{-0.31}$	1493^{+119}_{-97}	4440^{+575}_{-462}	44^{+40}_{-21}

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

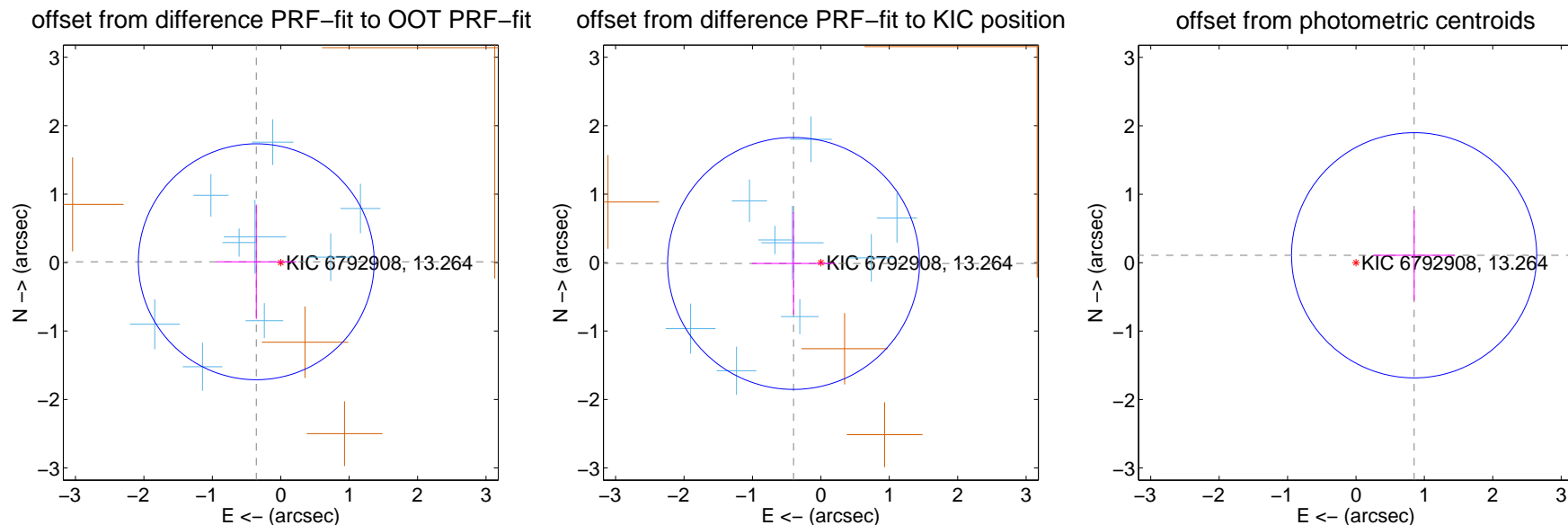
DV Centroid Data

Supplemental centroid analysis for 006792908-01. Kepler magnitude: 13.26. Transit SNR 12.24

There are 9 quarters with good PRF difference image offsets

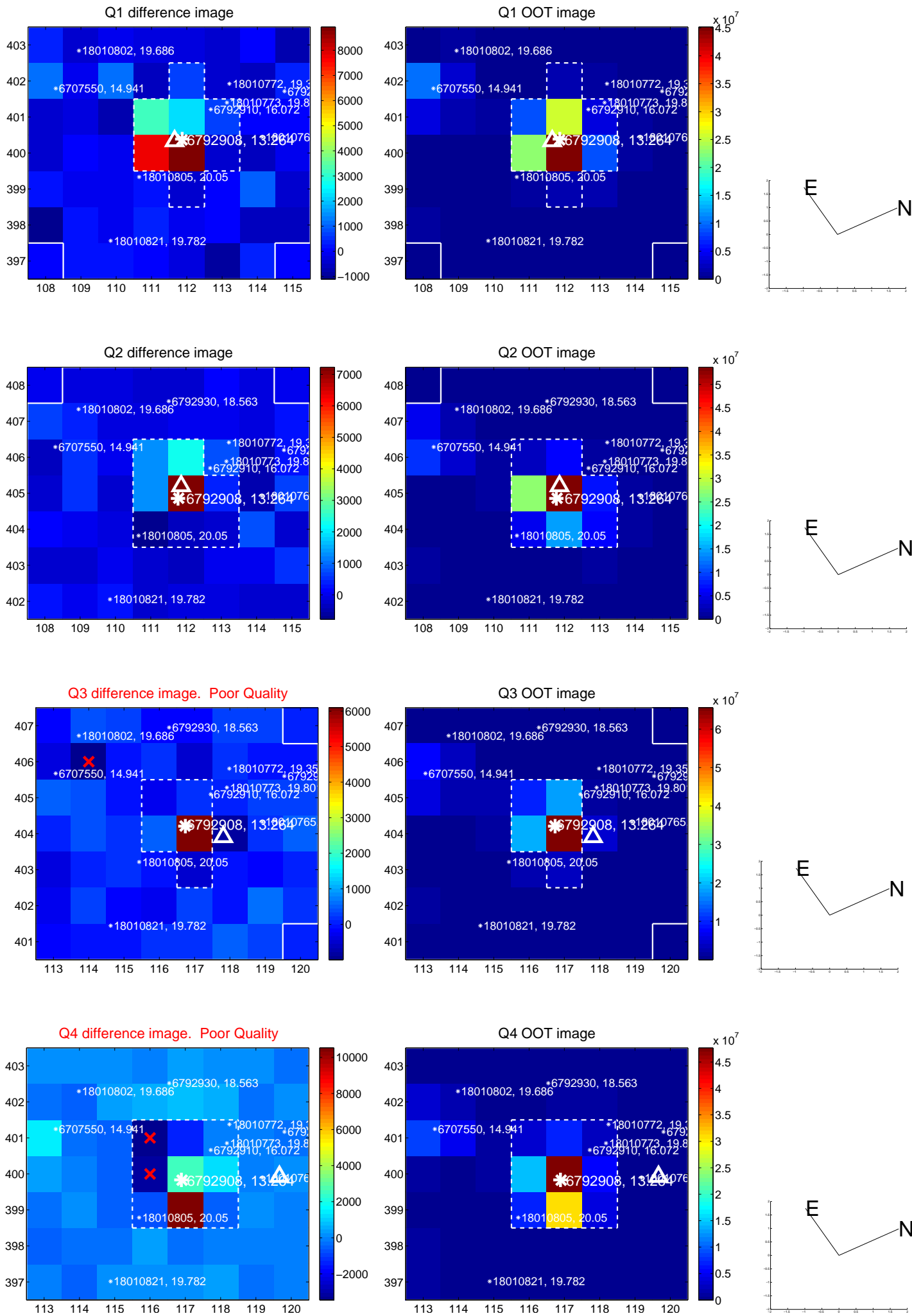
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.358 ± 0.574	0.62	0.358 ± 0.585	0.012 ± 0.836
PRF-fit source offset from KIC position	0.399 ± 0.613	0.65	0.399 ± 0.608	-0.013 ± 0.748
photometric centroid source offset	0.86 ± 0.60	1.43	-0.85 ± 0.60	0.11 ± 0.66

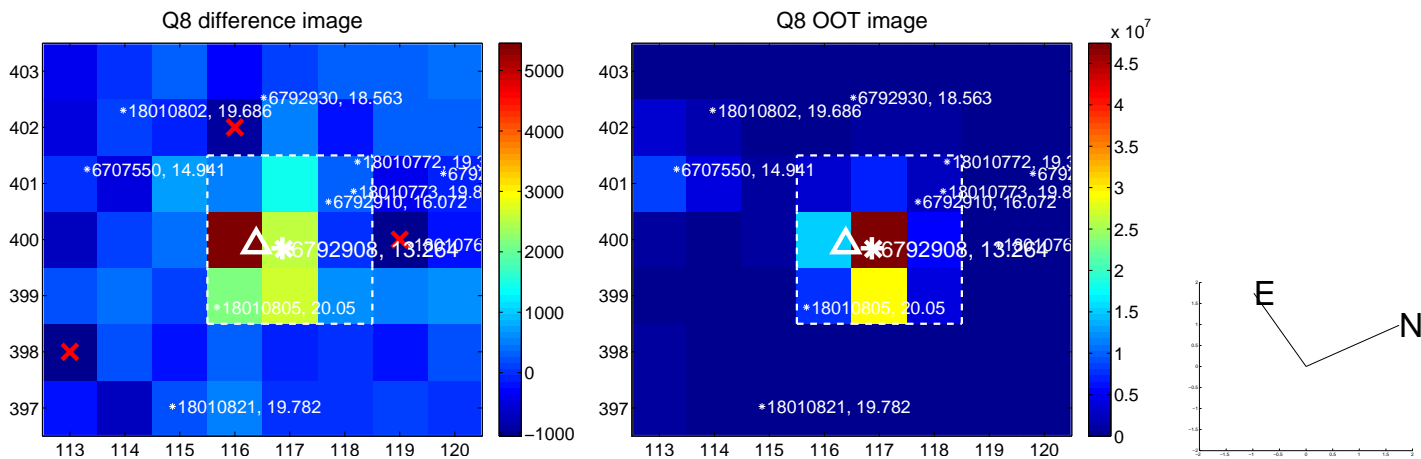
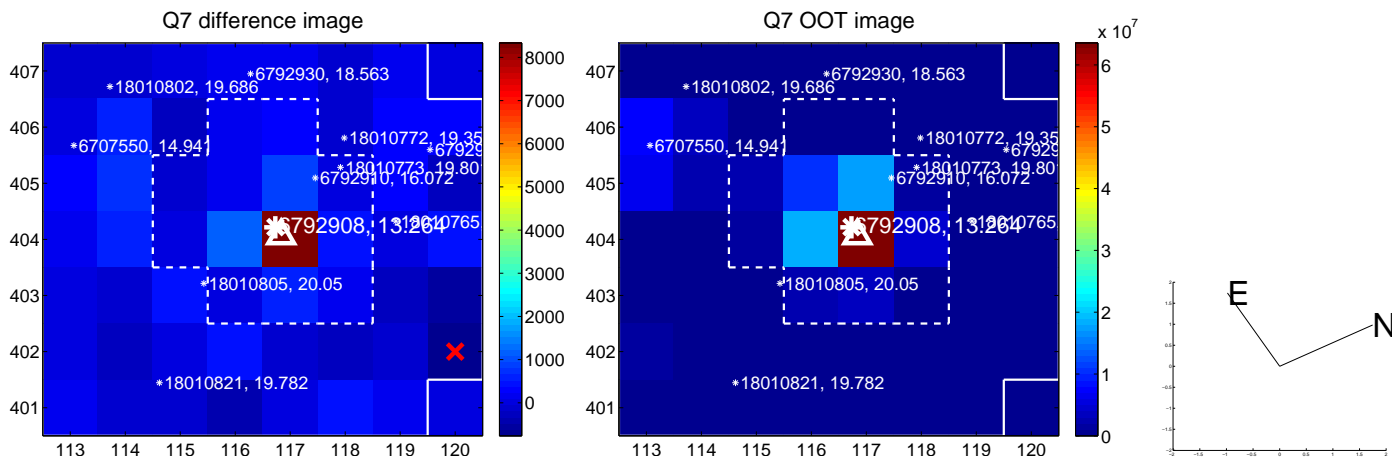
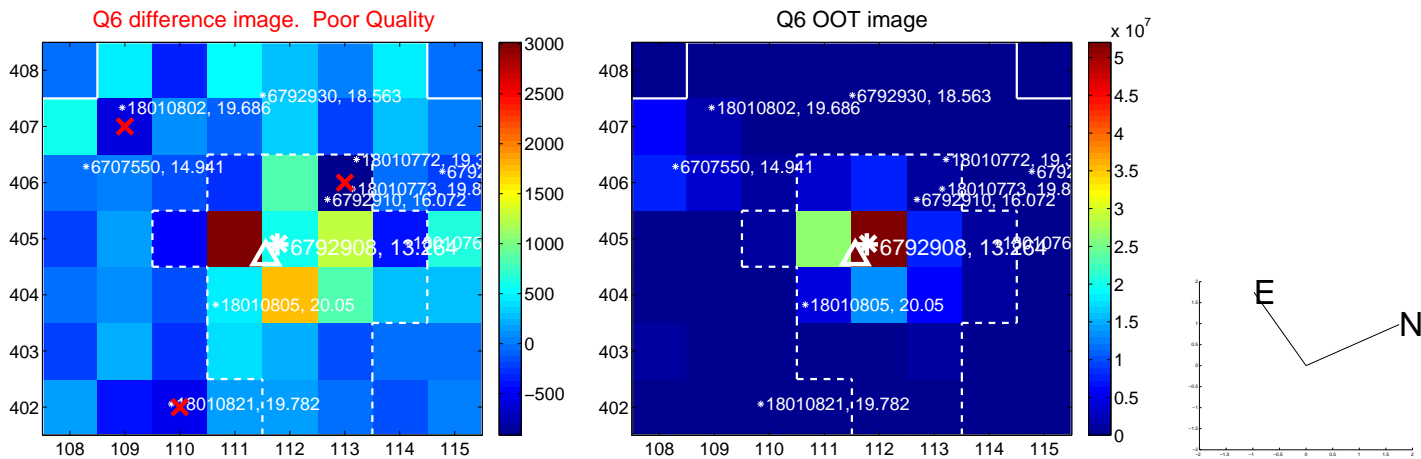
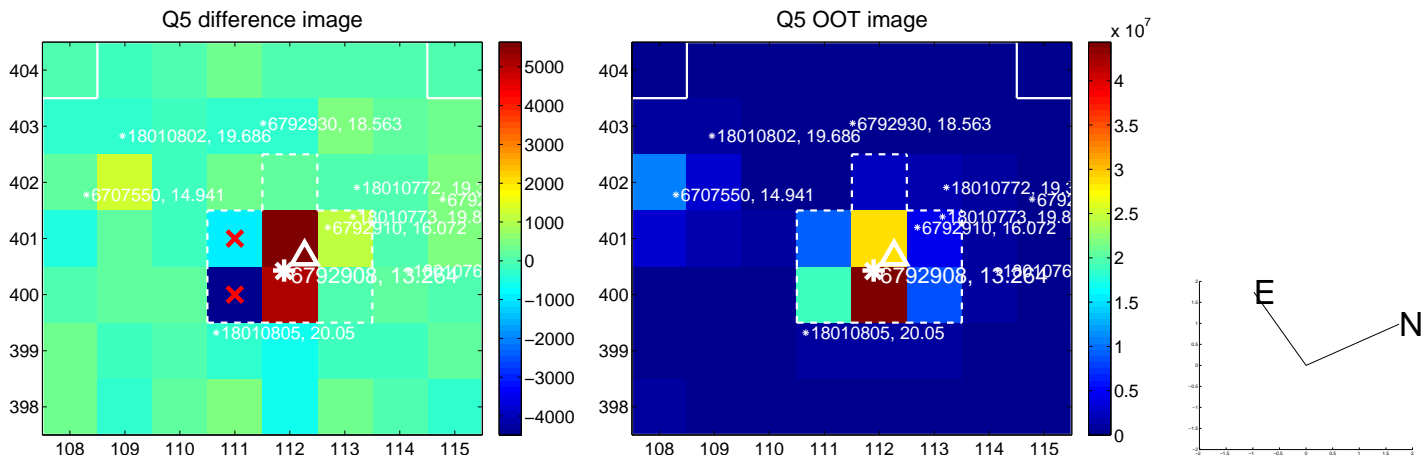


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

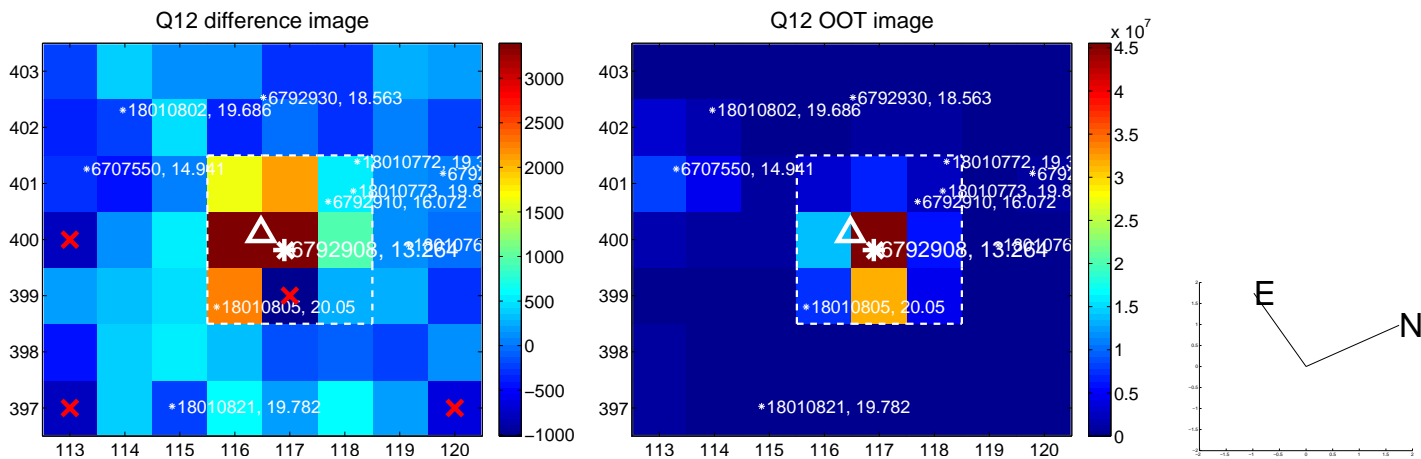
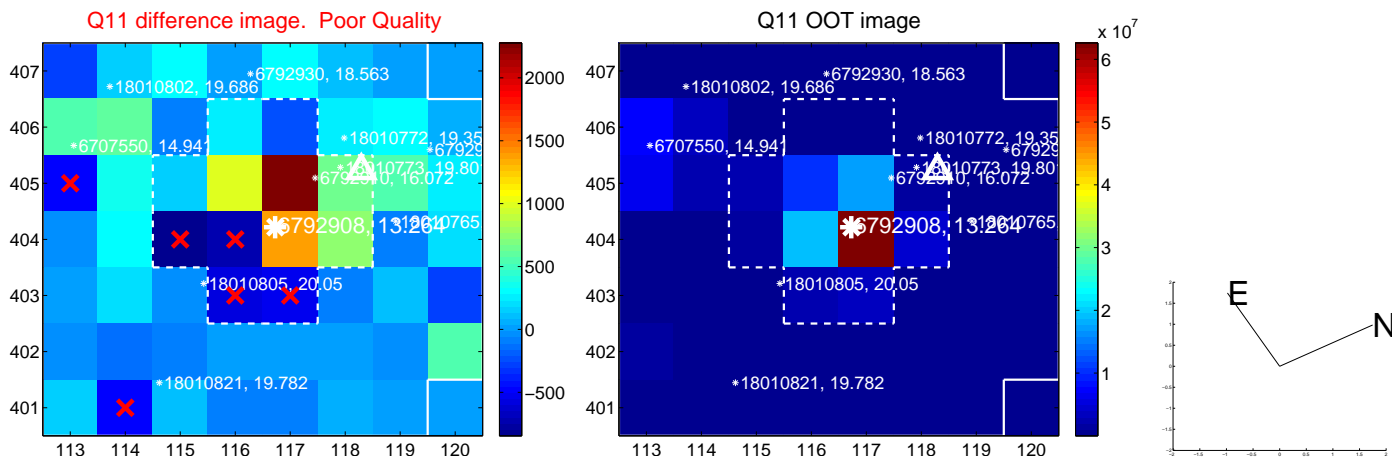
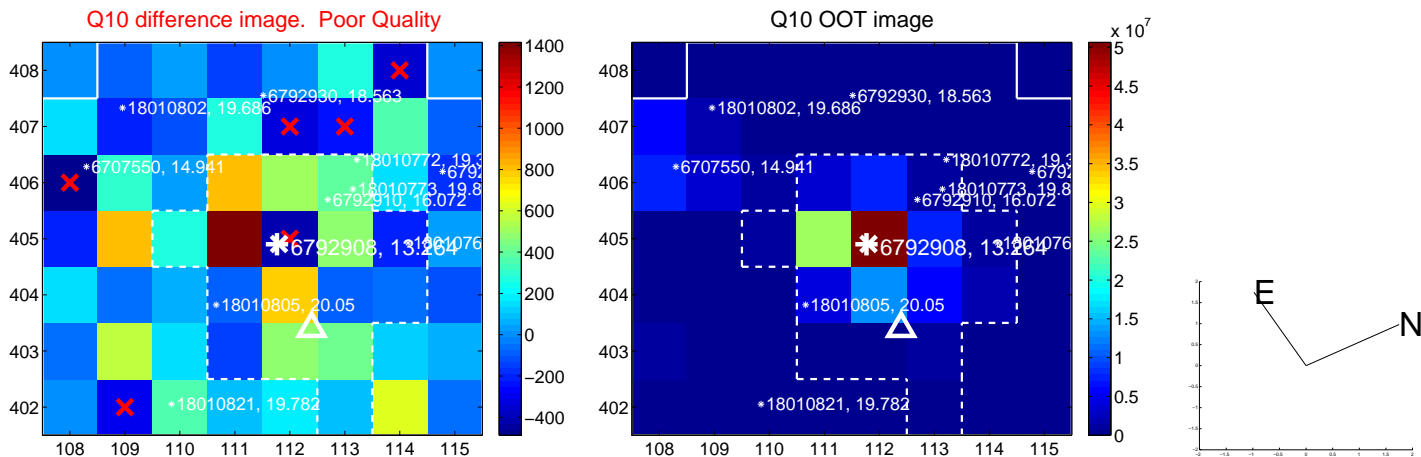
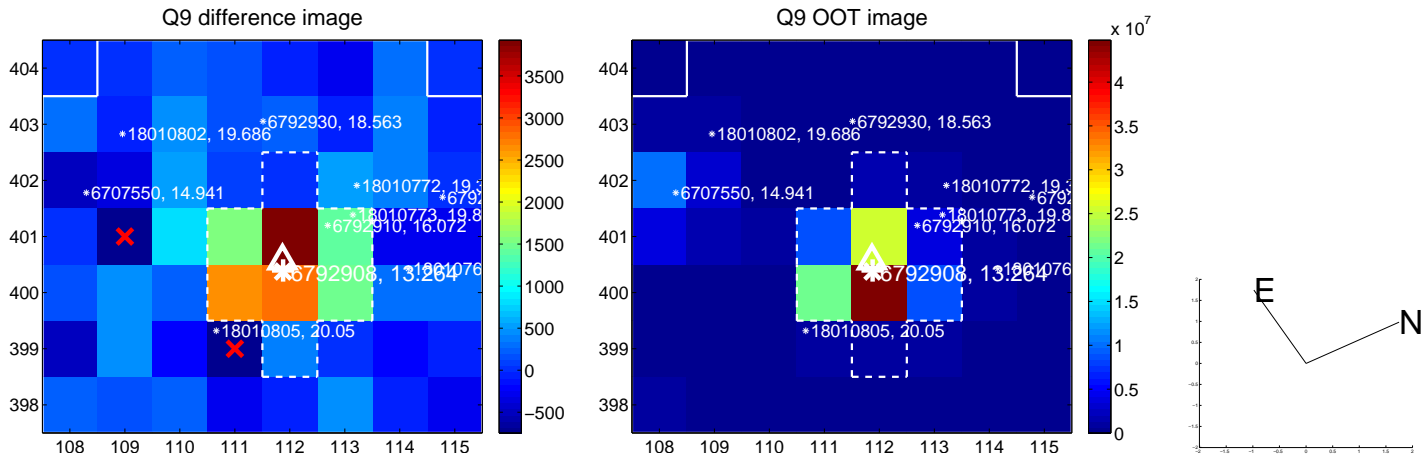
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



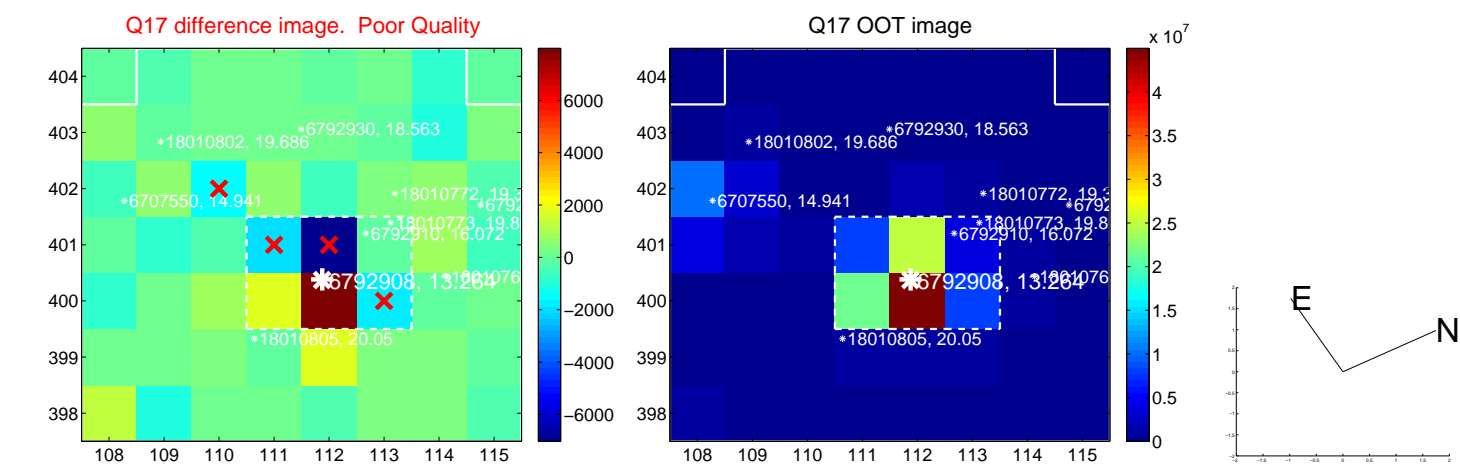
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



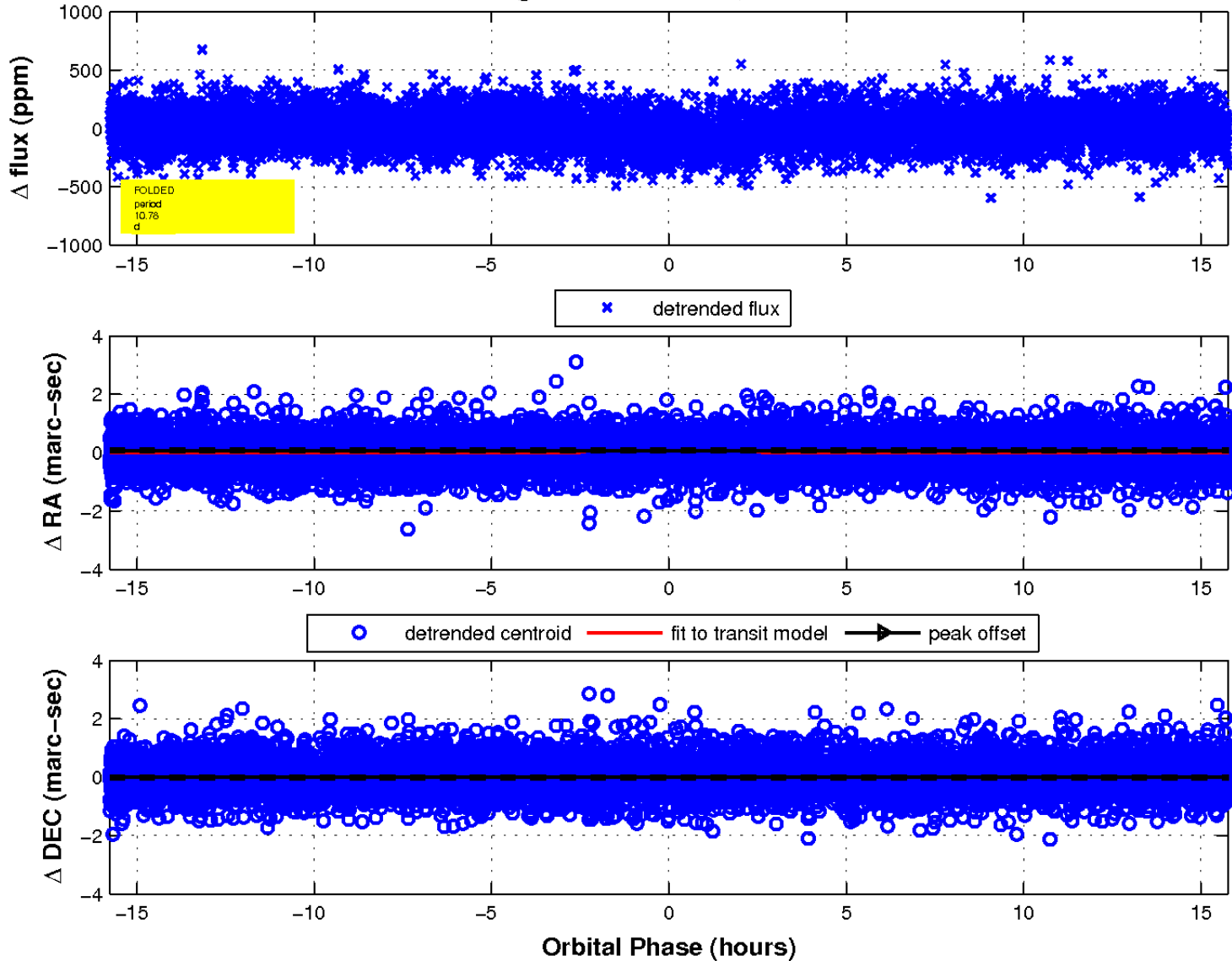
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

