

KIC 006267191

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})
006267191-01	OBS	No	352.963342	373.025256	135.8	21.683	7.6	8.0	1.72	6136	2.20	3.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006267191-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—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.

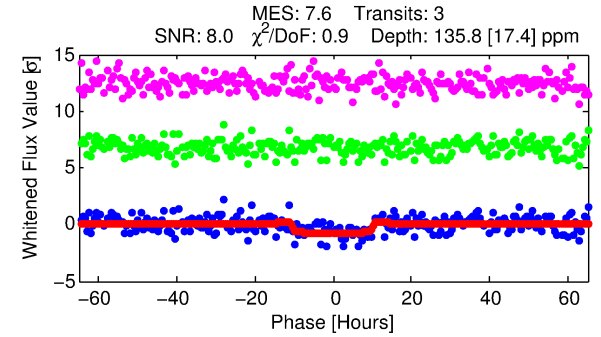
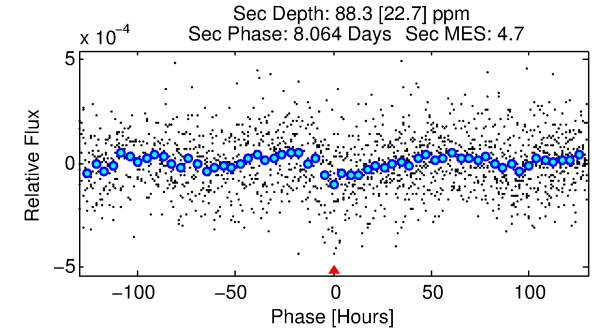
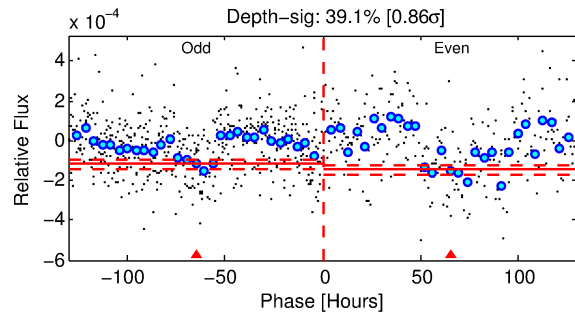
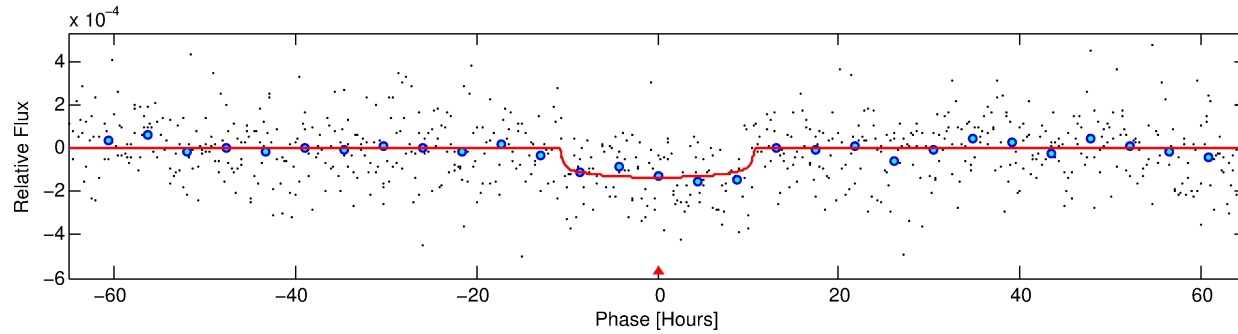
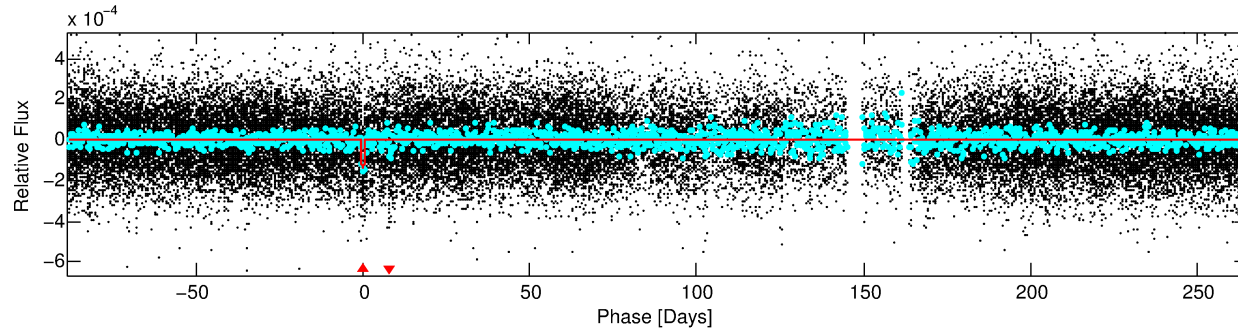
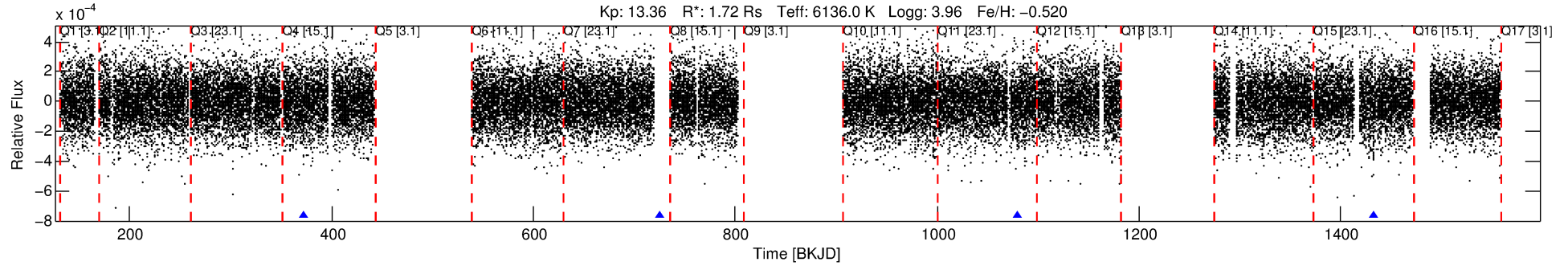
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006267191-01

No Significant Match Found

DV One-Page Summary

KIC: 6267191 Candidate: 1 of 1 Period: 352.963 d



DV Fit Results:

Period = 352.96334 [0.01269] d
Epoch = 373.0253 [0.0262] BKJD
Rp/R* = 0.0117 [0.0033]
a/R* = 79.47 [115.62]
b = 0.78 [0.72]
Seff = 3.95 [2.03]
Teq = 359 [46] K
Rp = 2.20 [0.93] Re
a = 0.9736 [0.3017] AU
Ag = 9538.67 [7586.52] [1.26 σ]
Teffp = 5493 [866] K [5.92 σ]

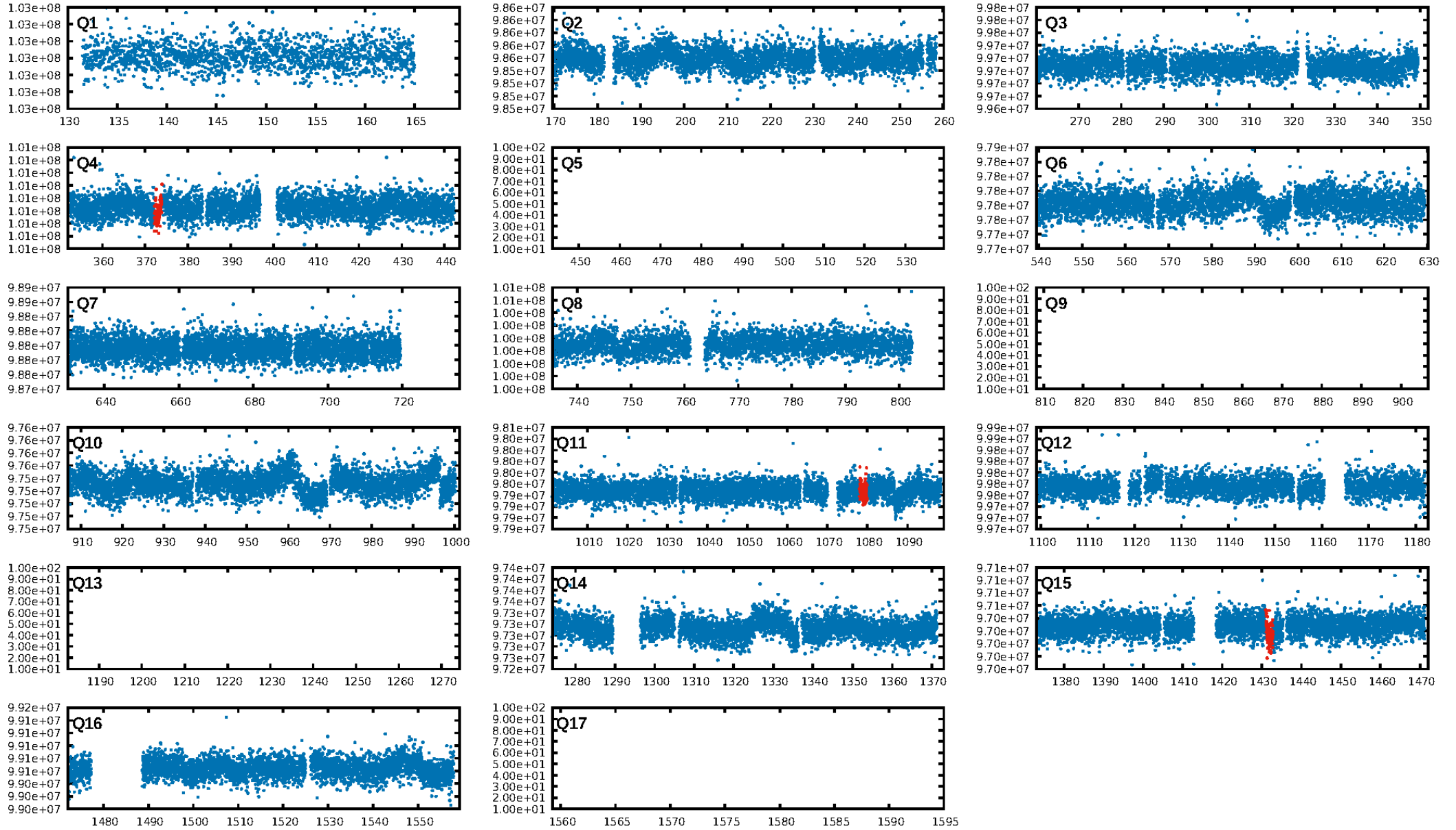
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 29.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 7.53e-09
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.068
Centroid-sig: 94.2%
Centroid-so: 0.530 arcsec [0.32 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [2/2]

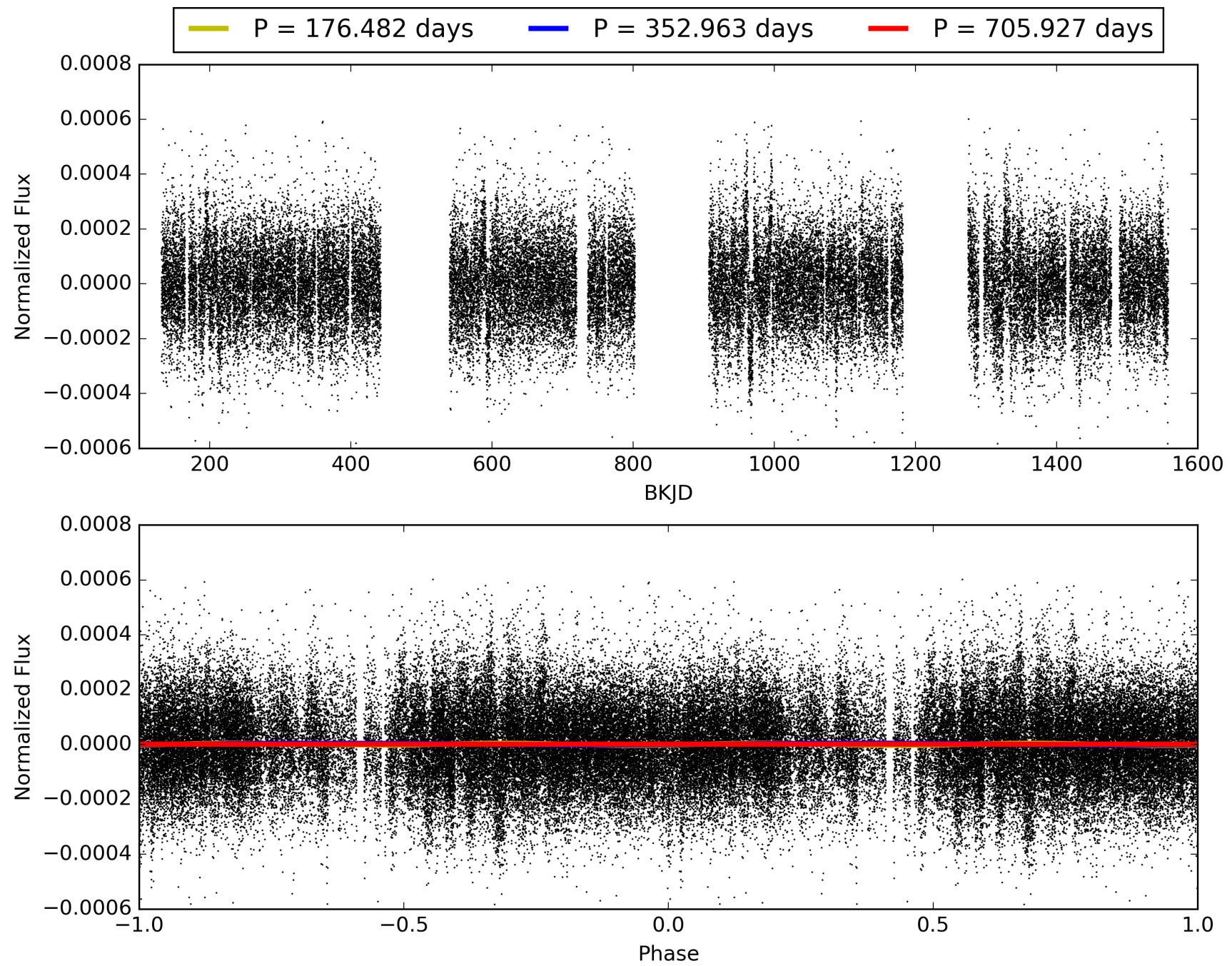
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:35:13 Z

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

TCE 006267191-01, PDC Light Curves

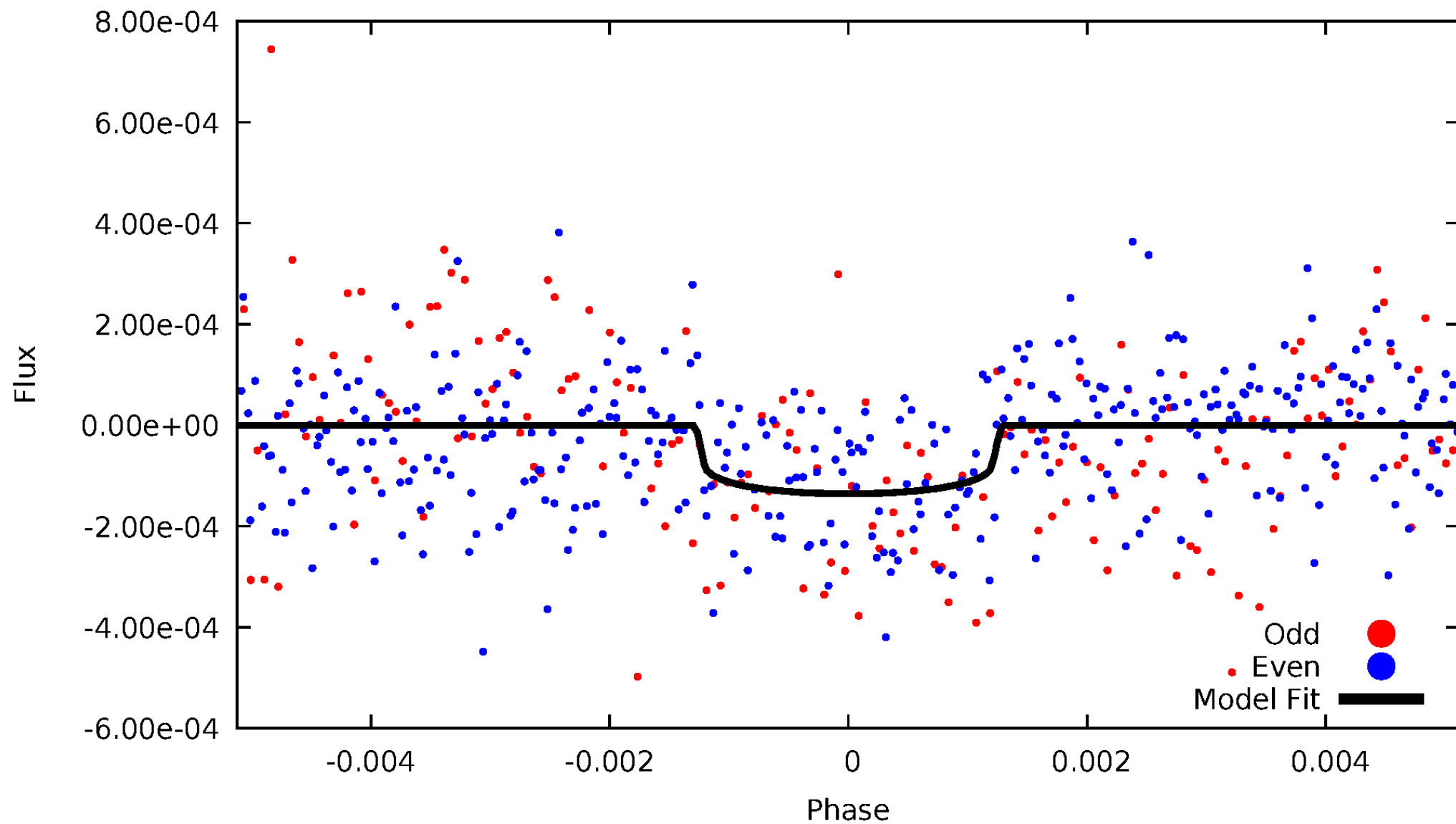


TCE 006267191-01



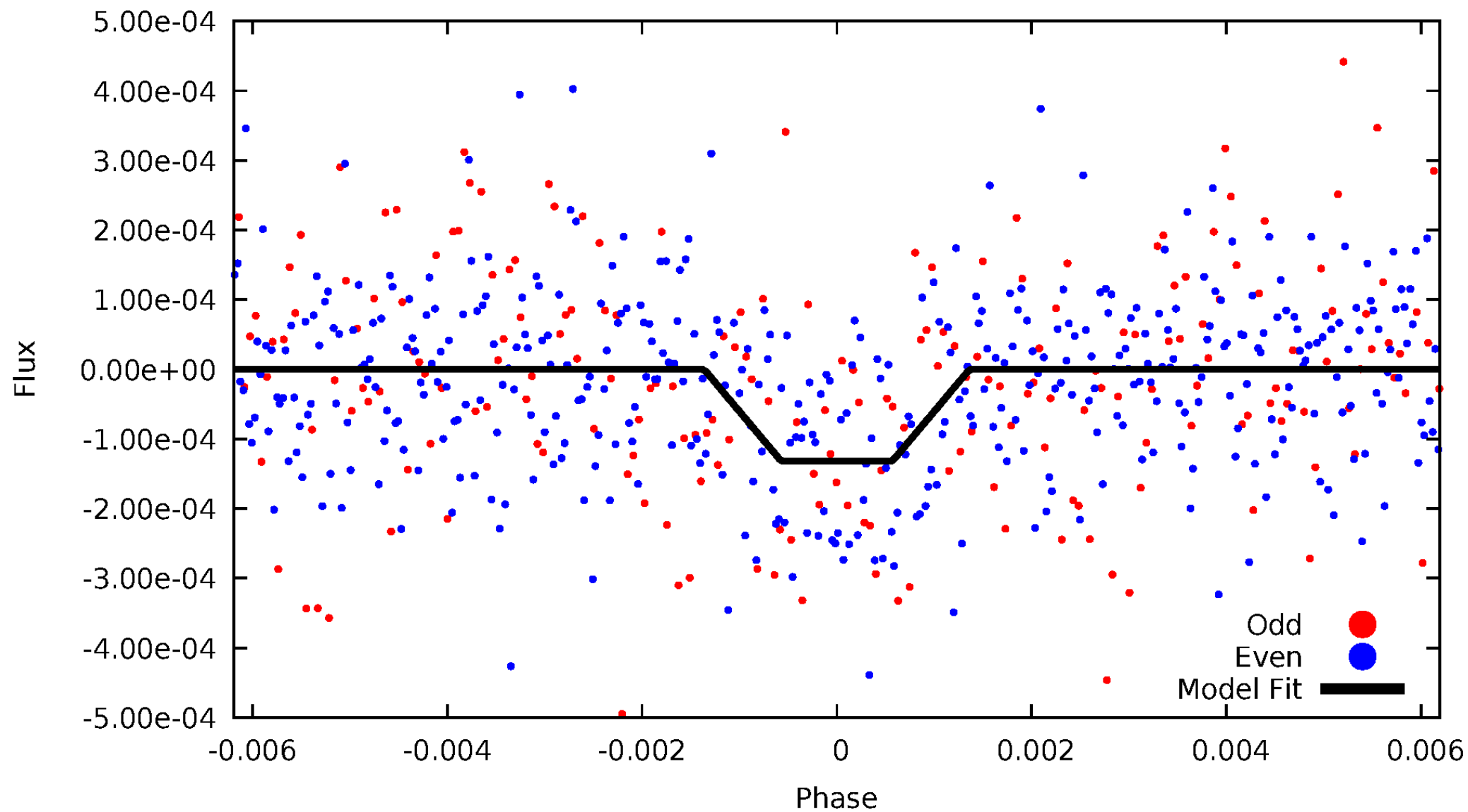
DV Odd/Even

TCE 006267191-01



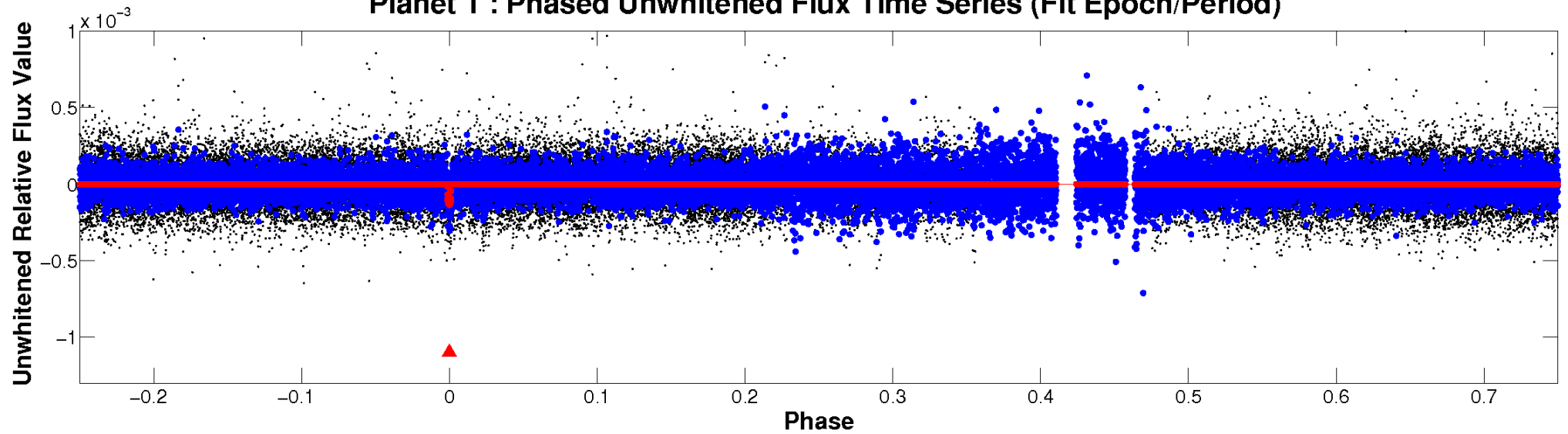
ALT Odd/Even

TCE 006267191-01

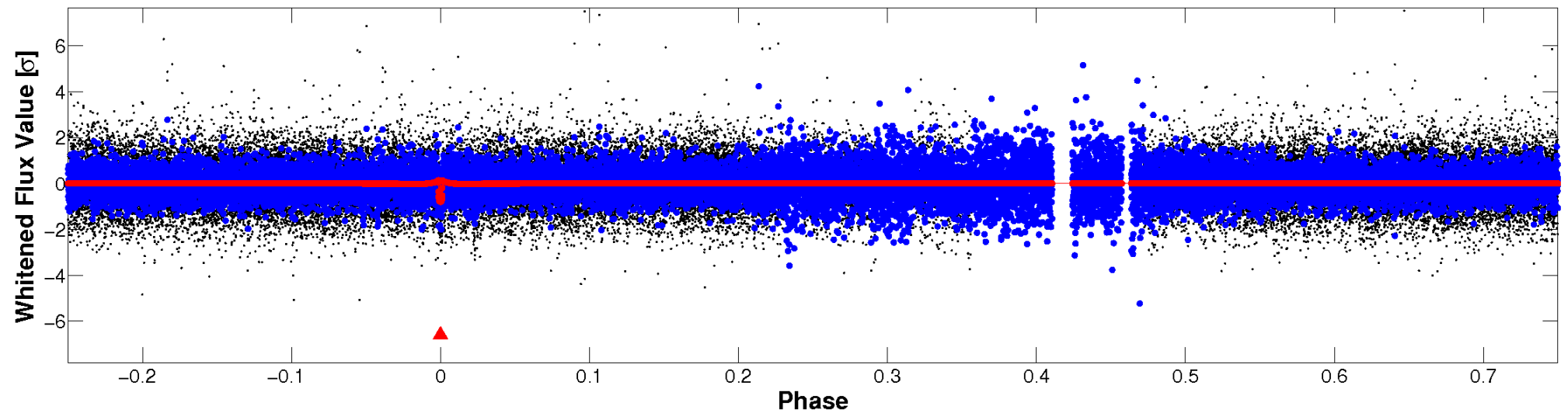


Non-Whitened Vs. Whitened Light Curve

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

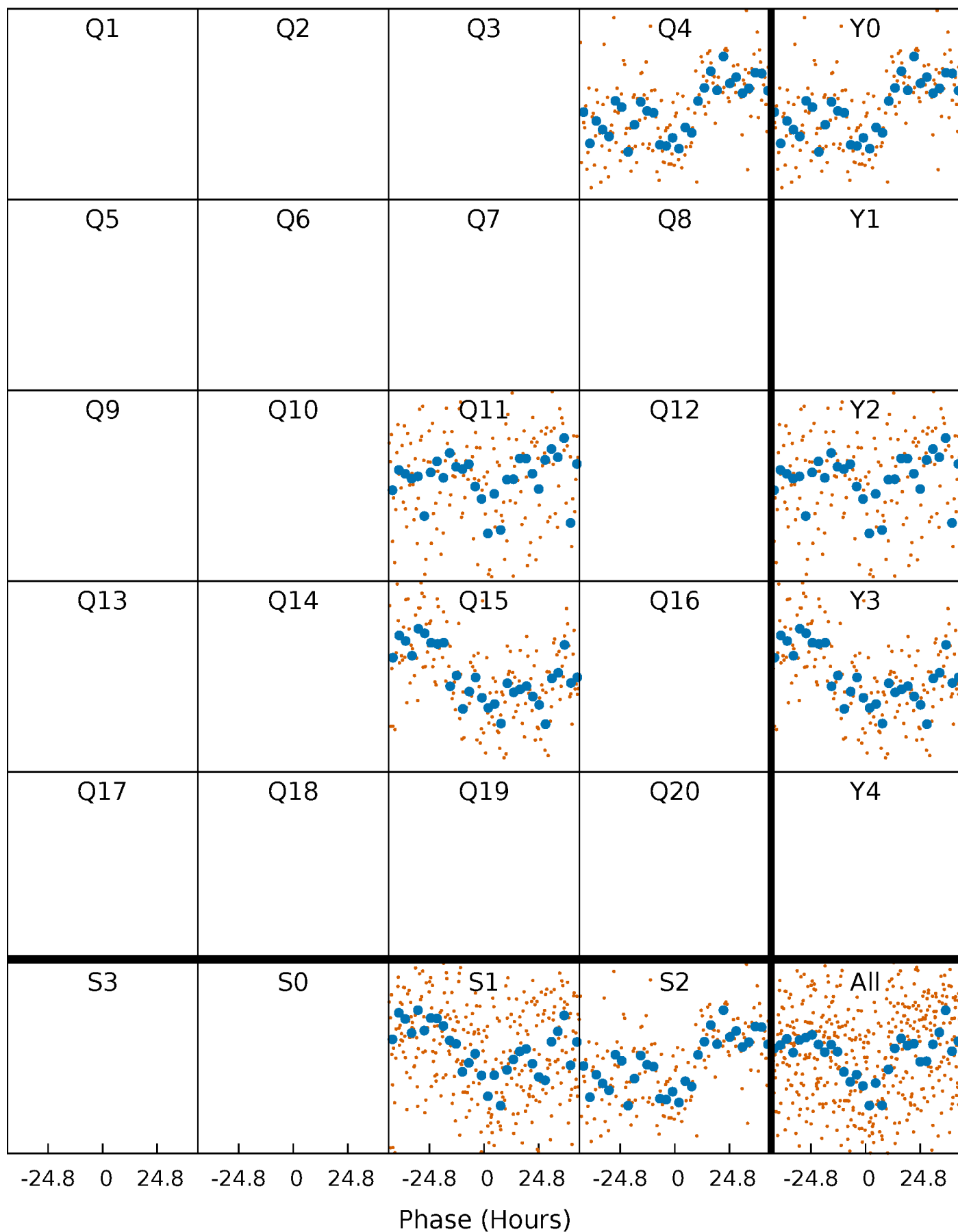


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



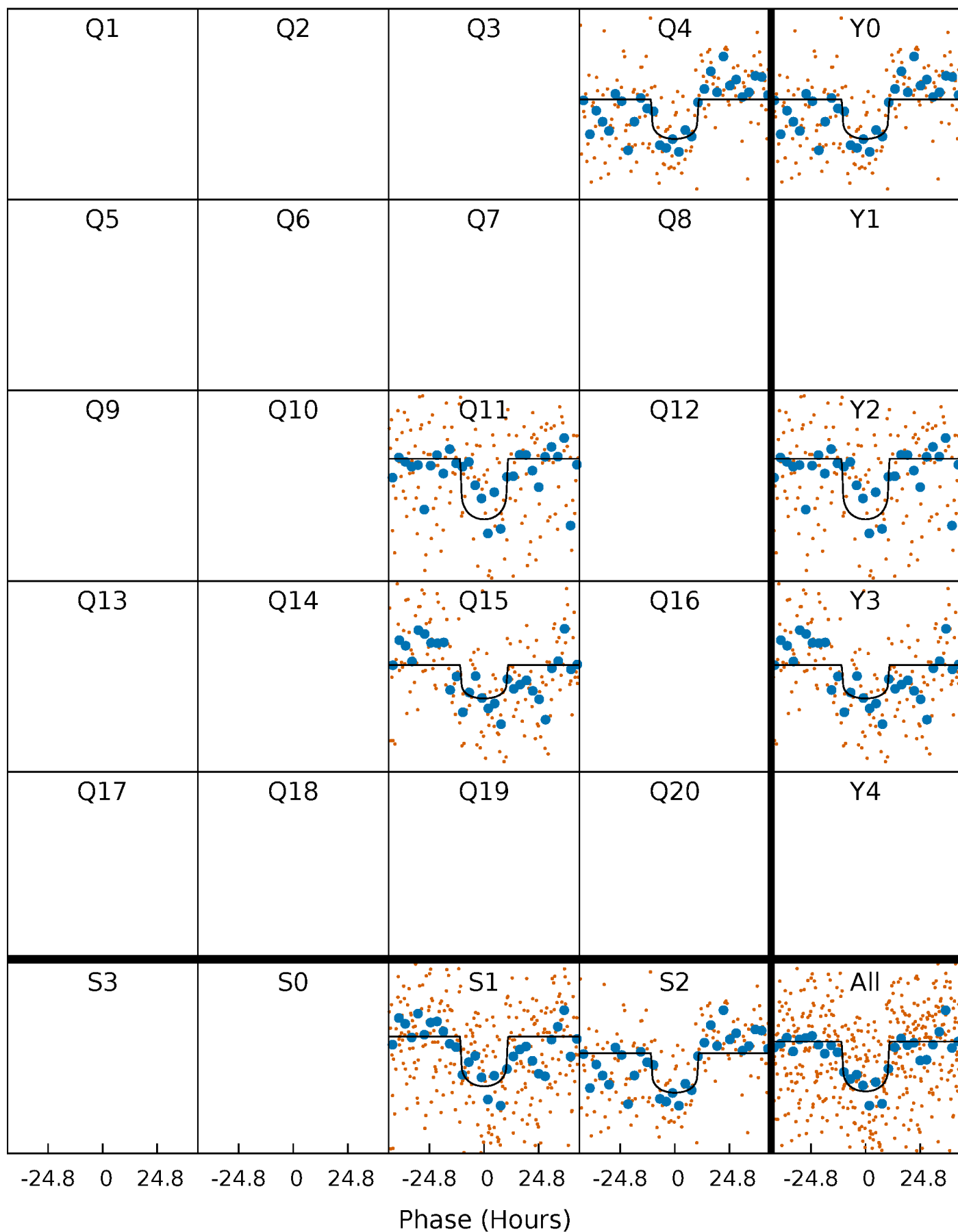
PDC Quarter-Phased Transit Curves

TCE 006267191-01 P=352.963342 Days $T_0=373.025256$ (BKJD)



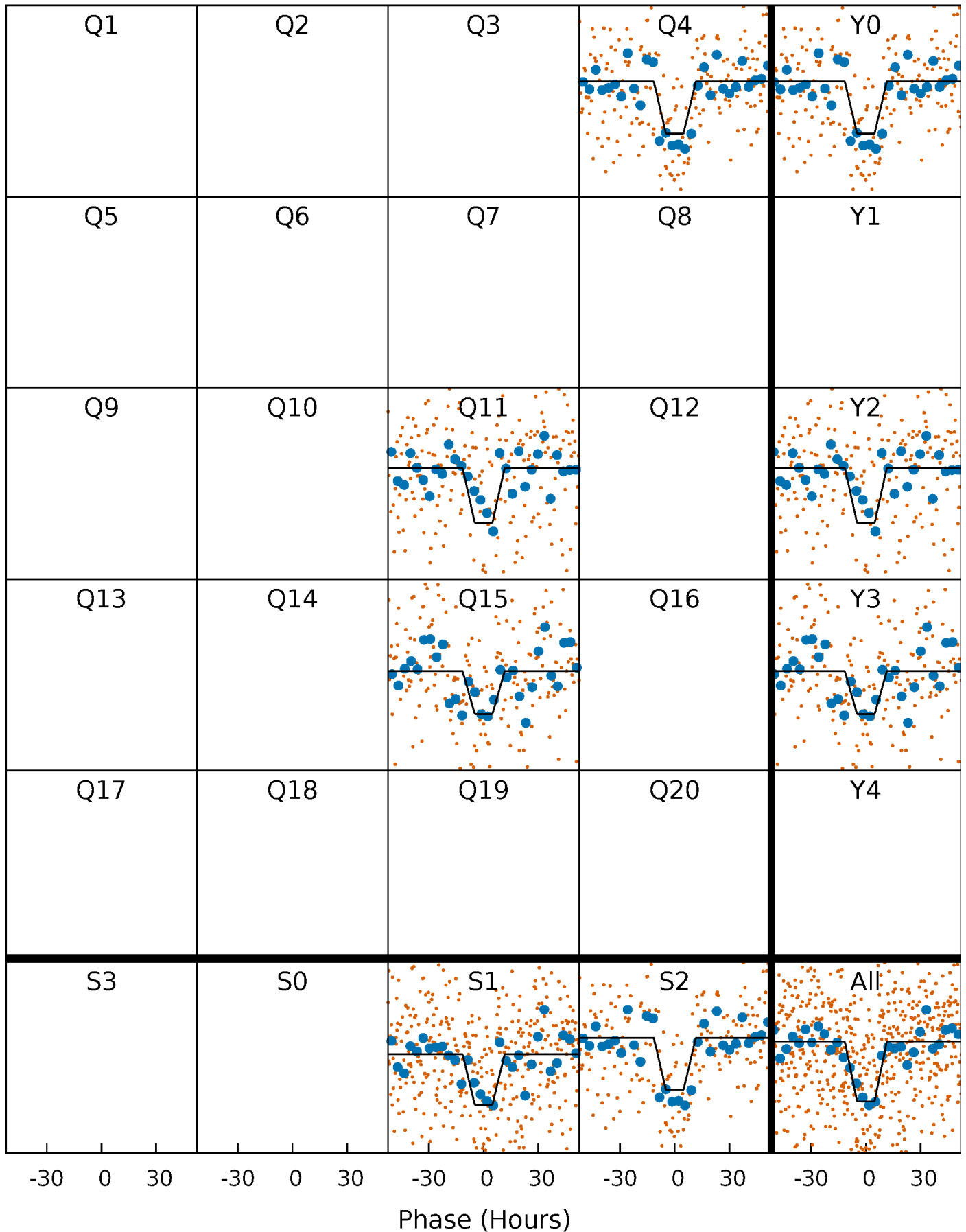
DV Quarter-Phased Transit Curves

TCE 006267191-01 P=352.963342 Days $T_0=373.025256$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

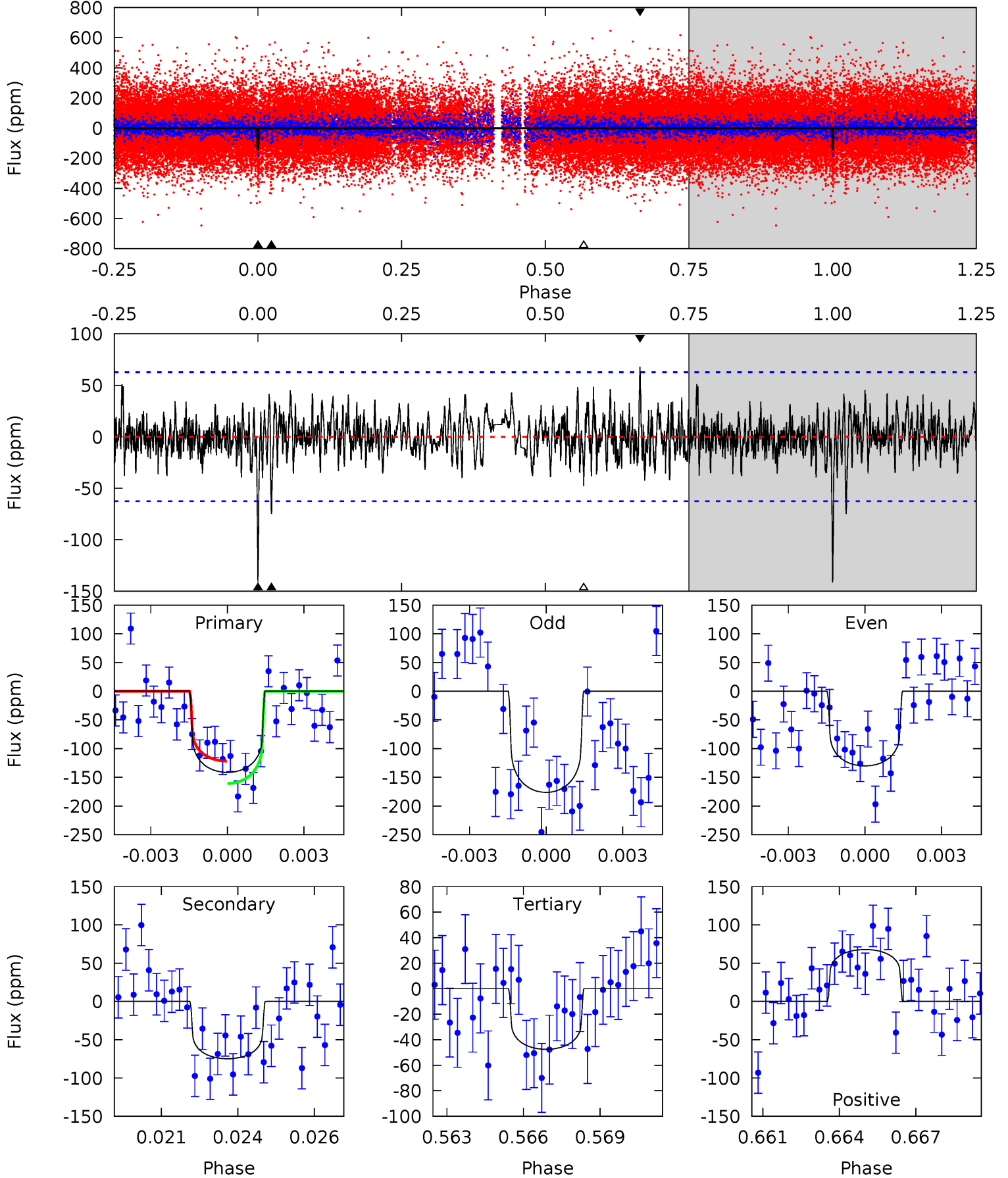
TCE 006267191-01 P=353.016994 Days $T_0=373.019402$ (BKJD)



DV Model-Shift Uniqueness Test

006267191-01, P = 352.963342 Days, E = 20.061914 Days

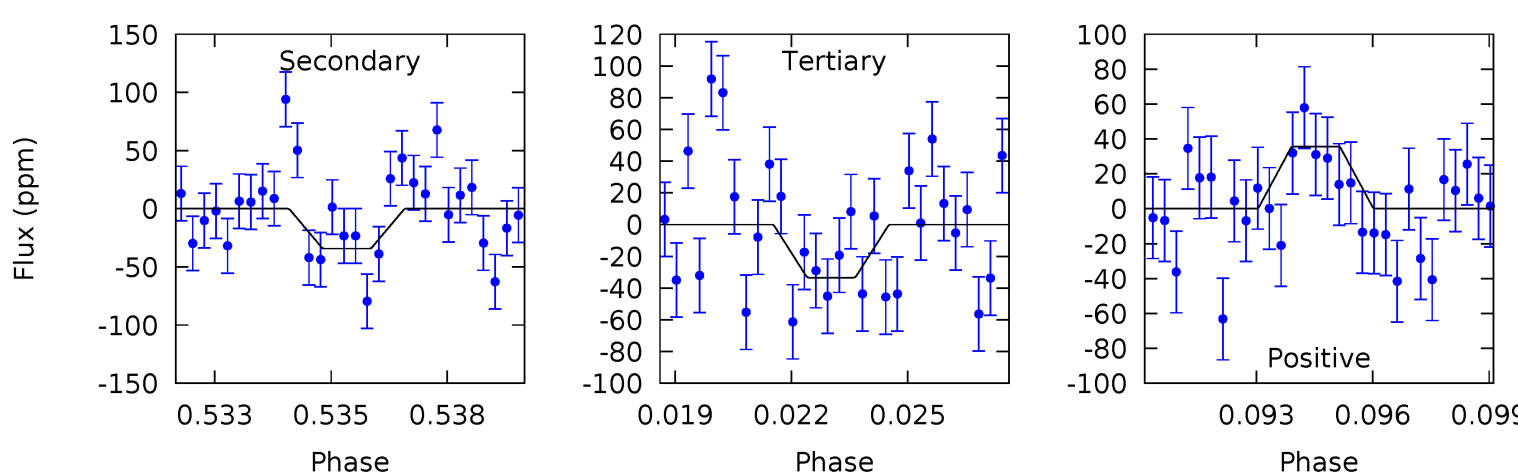
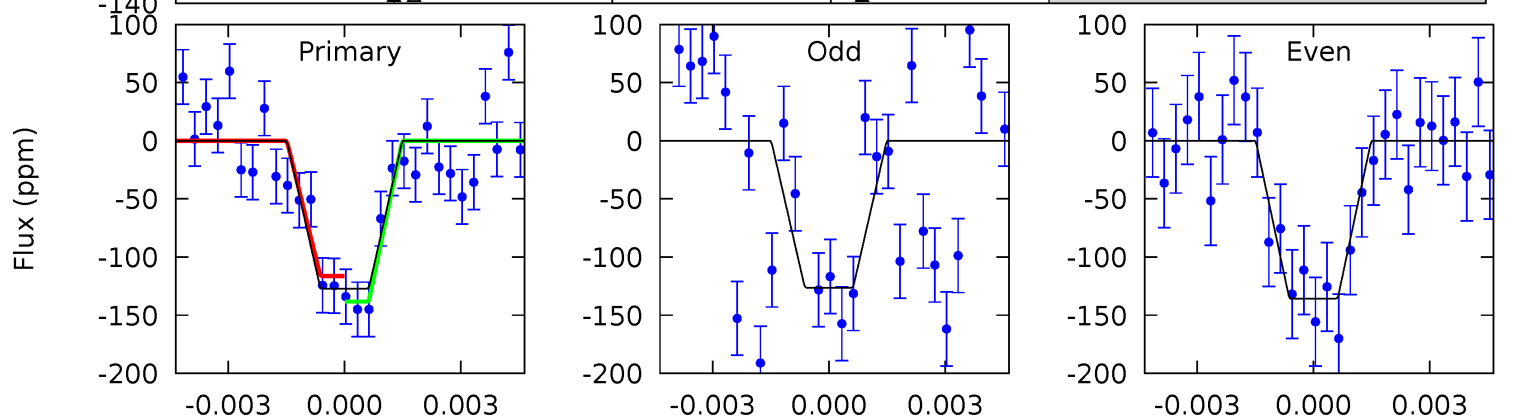
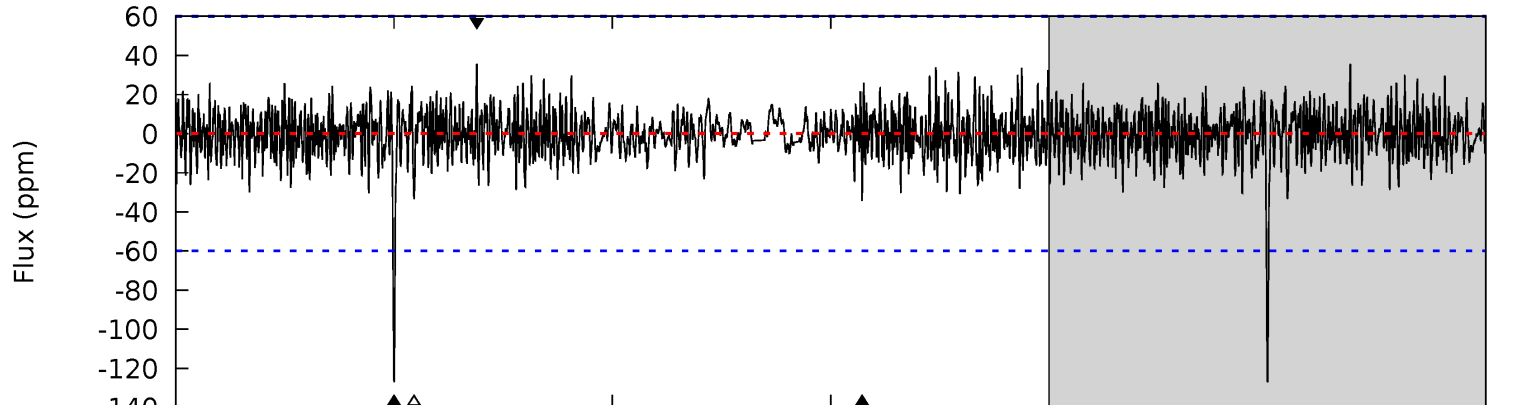
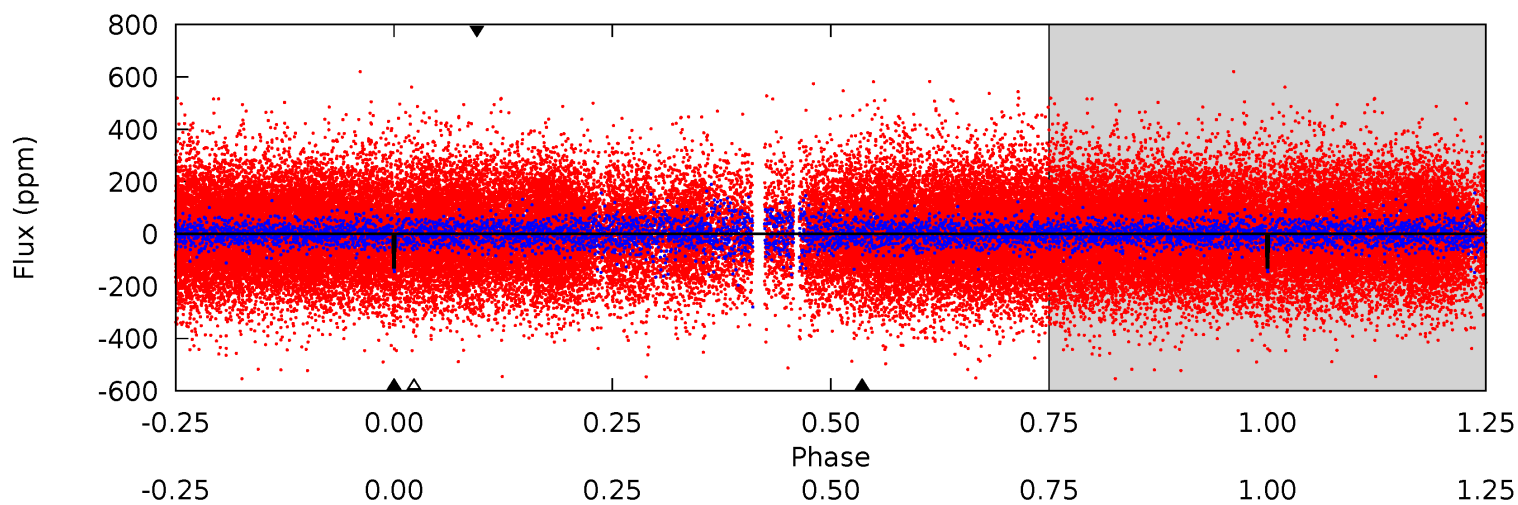
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.9	6.30	4.00	5.72	5.28	3.01	1.32	7.91	6.20	2.30	0.59	1.85	0.91	0.32	1.65



Alt Model-Shift Uniqueness Test

006267191-01, $P = 353.016994$ Days, $E = 20.002408$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.2	3.01	2.93	3.13	5.27	2.99	0.92	8.24	8.04	0.08	-0.12	0.40	1.16	0.22	0.97



Stellar Parameters For KIC 006267191

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6136^{+165}_{-183}	$3.963^{+0.294}_{-0.126}$	$-0.520^{+0.350}_{-0.250}$	$1.717^{+0.365}_{-0.547}$	$0.988^{+0.166}_{-0.136}$	$0.275^{+0.566}_{-0.098}$
	+3%/-3%	+7%/-3%	+67%/-48%	+21%/-32%	+17%/-14%	+206%/-35%
Source	PHO1	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 006267191-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-75 ± 12	$2.12^{+0.75}_{-0.66}$	496^{+30}_{-46}	5298^{+941}_{-612}	8935^{+9806}_{-4146}
Alt.	-34 ± 11	$2.07^{+0.69}_{-0.61}$	498^{+32}_{-46}	4528^{+760}_{-540}	4119^{+4609}_{-2100}

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

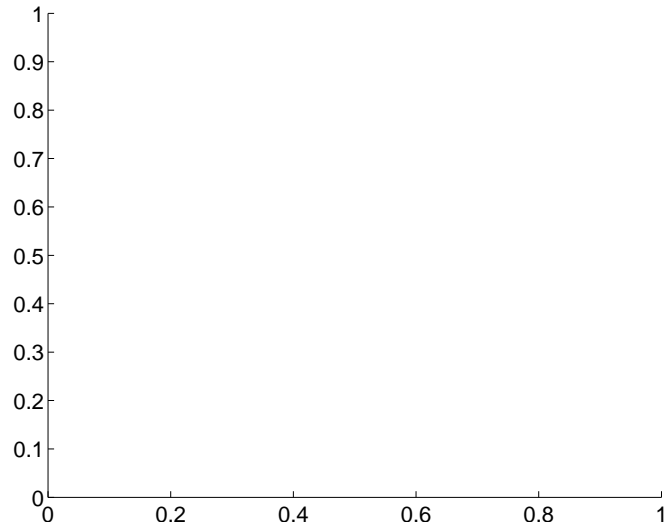
Supplemental centroid analysis for 006267191-01. Kepler magnitude: 13.36. Transit SNR 7.99

There are 0 quarters with good PRF difference image offsets

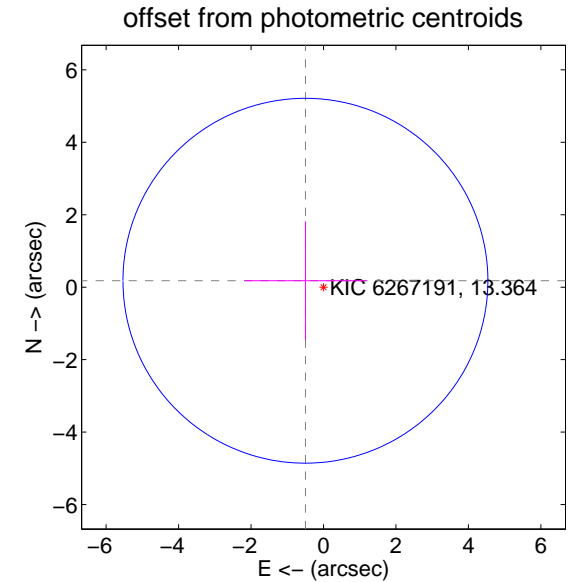
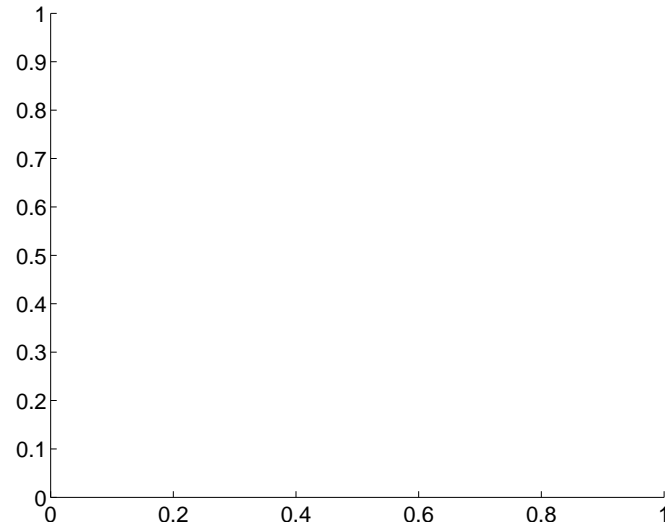
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	0.53 ± 1.68	0.32	0.50 ± 1.68	0.18 ± 1.64

There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC



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.

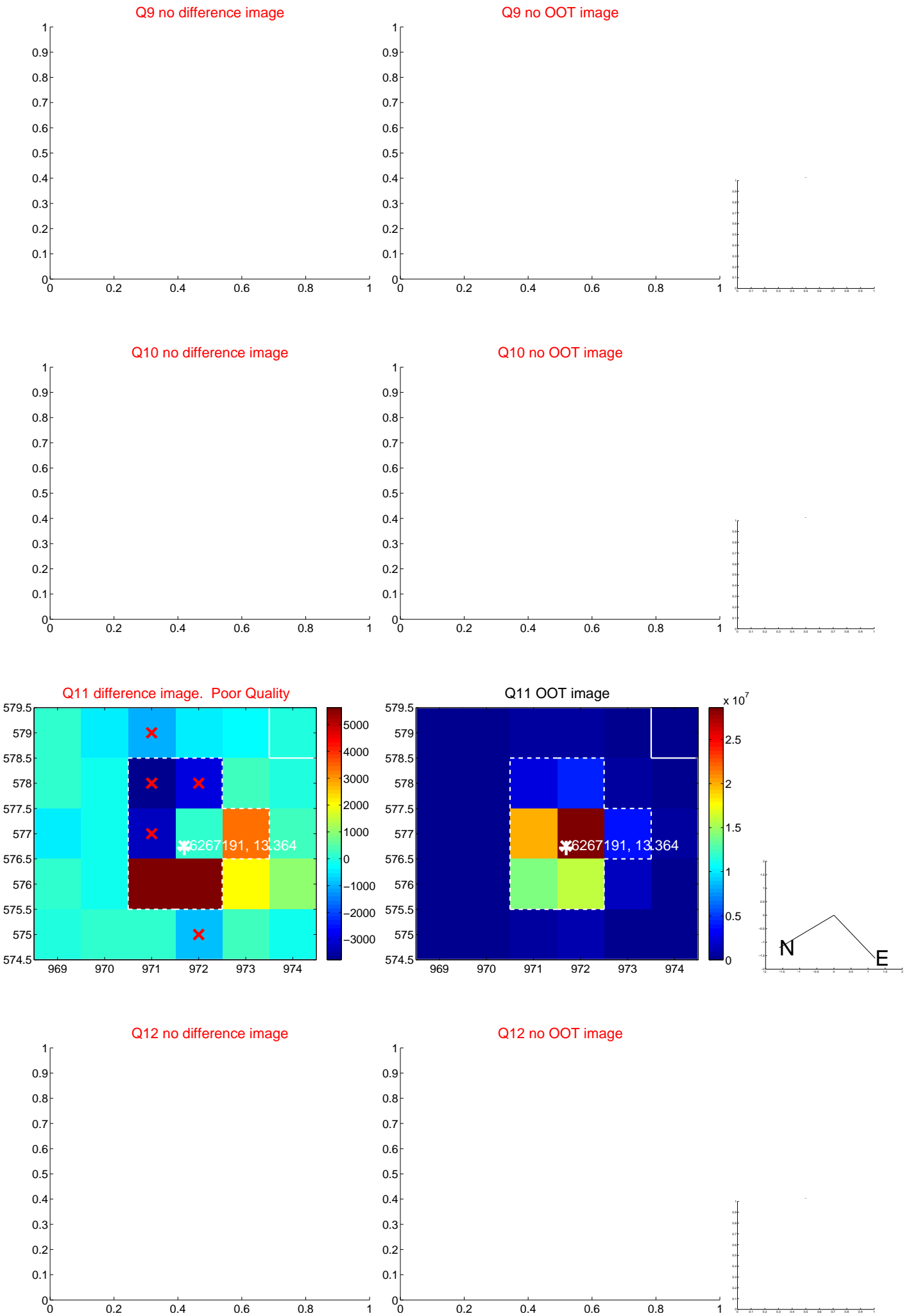
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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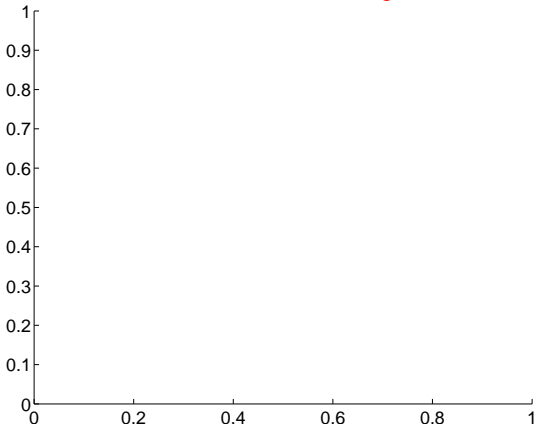


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

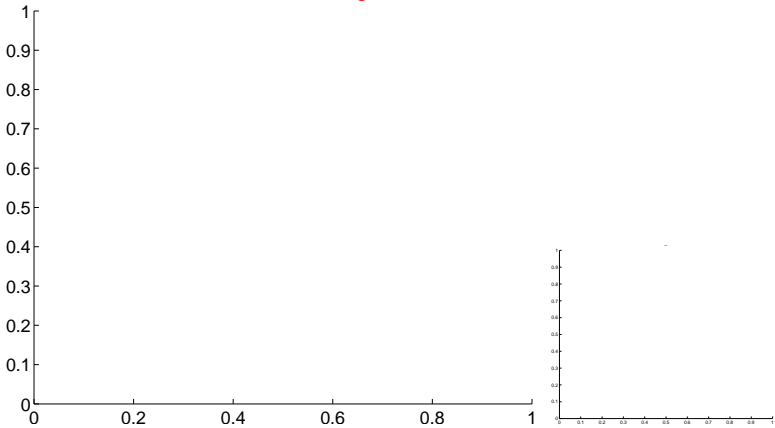


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

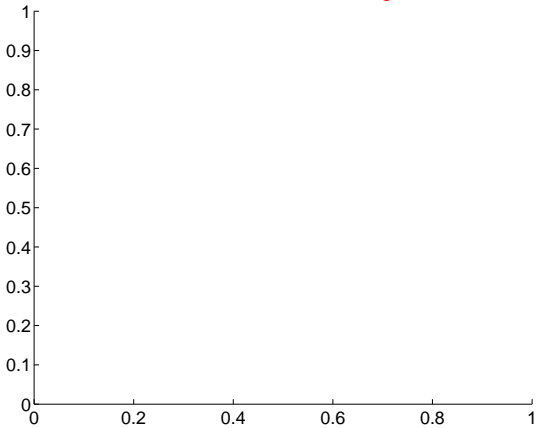
Q13 no difference image



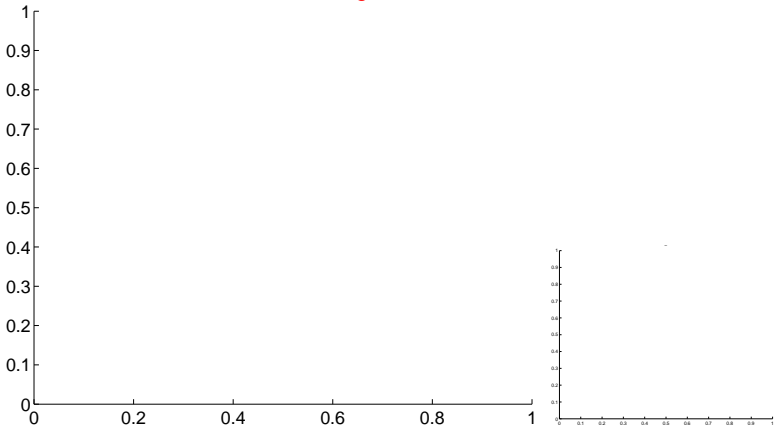
Q13 no OOT image



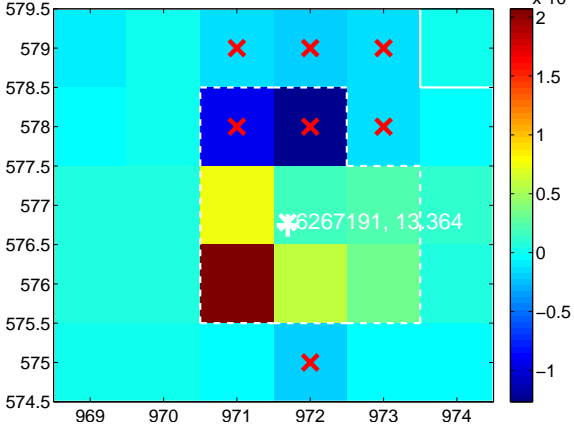
Q14 no difference image



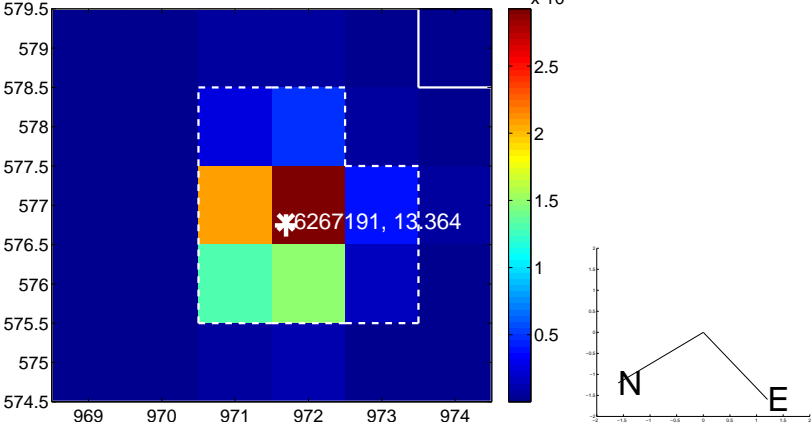
Q14 no OOT image



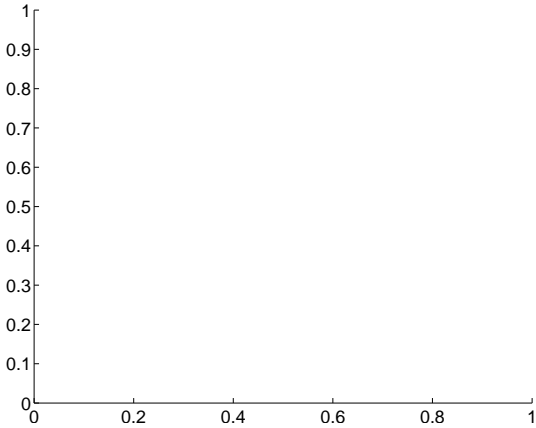
Q15 difference image. Poor Quality



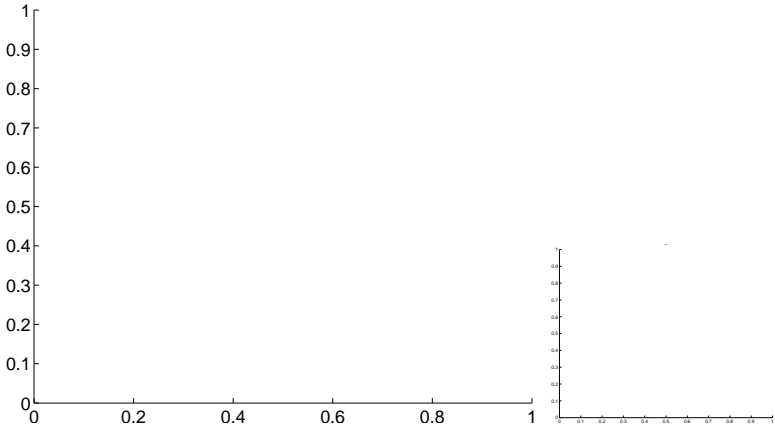
Q15 OOT image



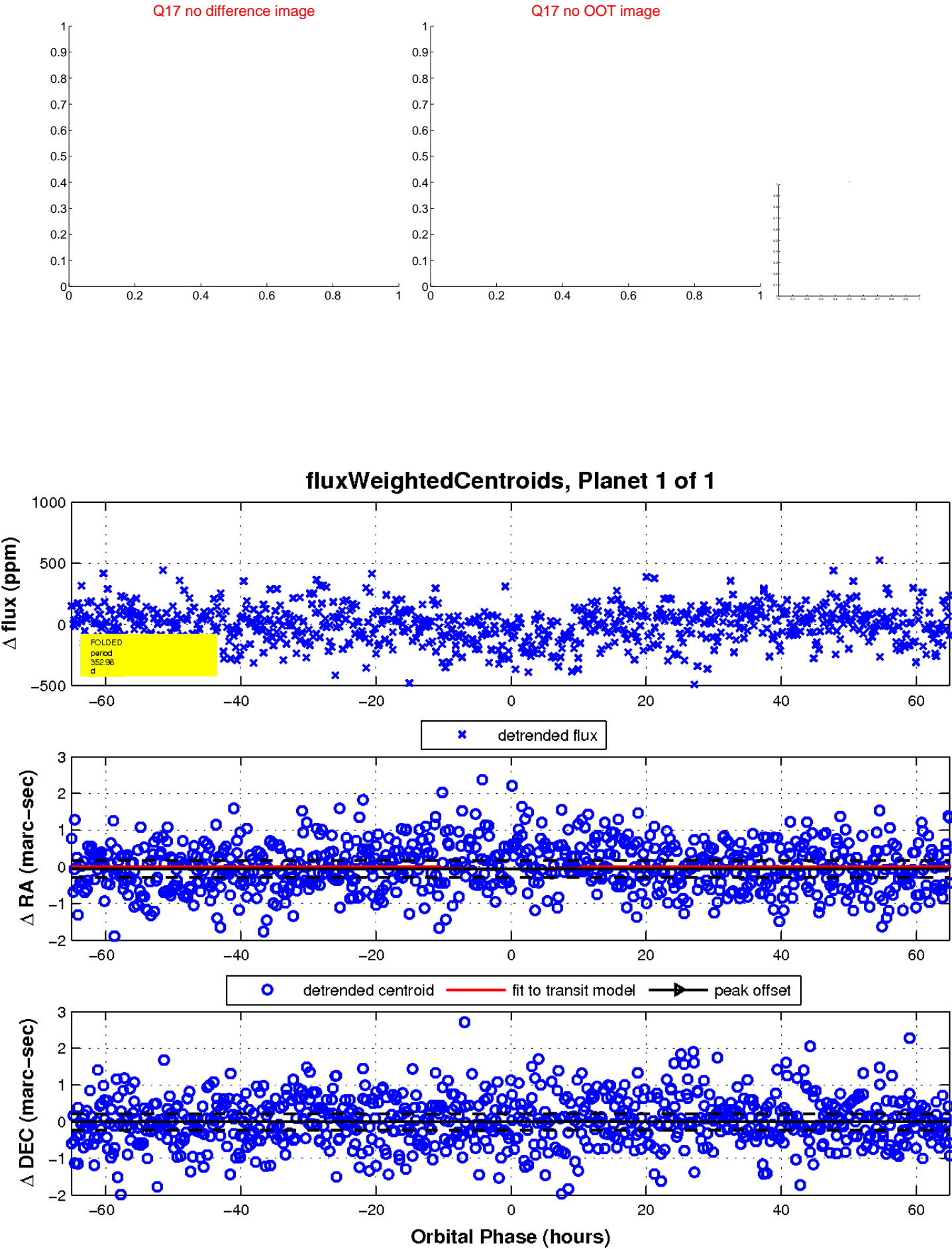
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

