

KIC 006195669

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})
006195669-01	OBS	8262.01	370.913180	261.170686	1198.2	14.567	11.1	13.0	0.78	5755	3.42	0.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006195669-01	OBS	FP	0.09	0	1	0	0	MOD_SEC_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.

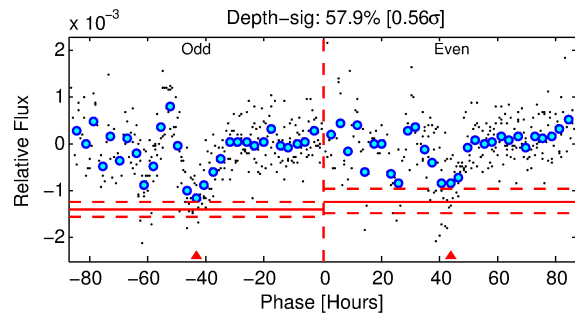
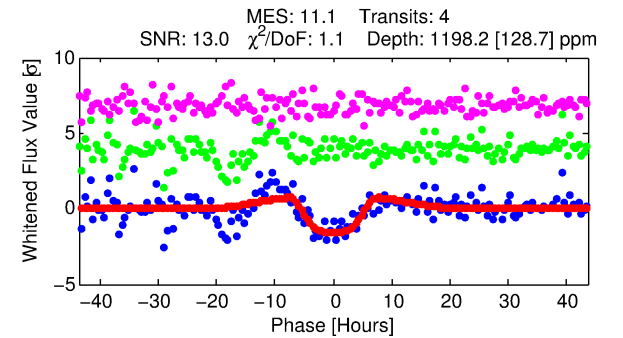
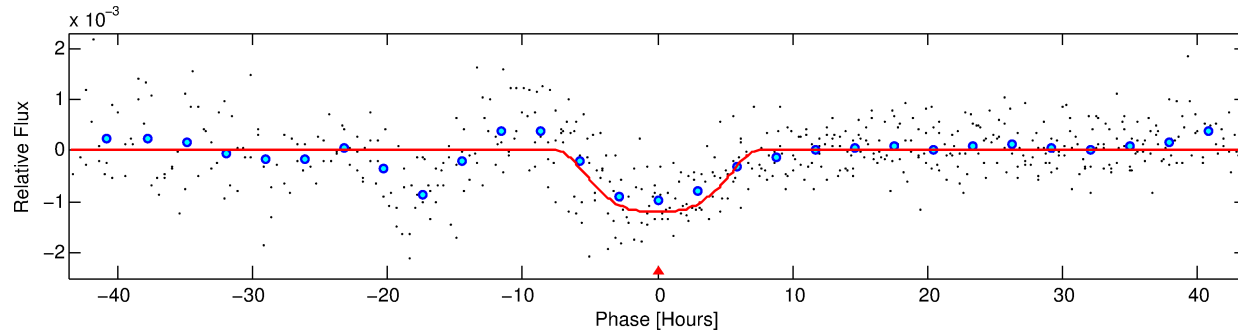
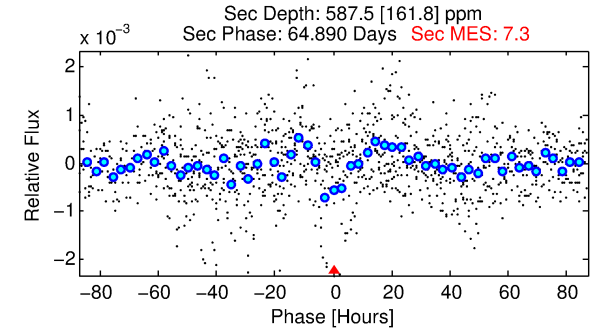
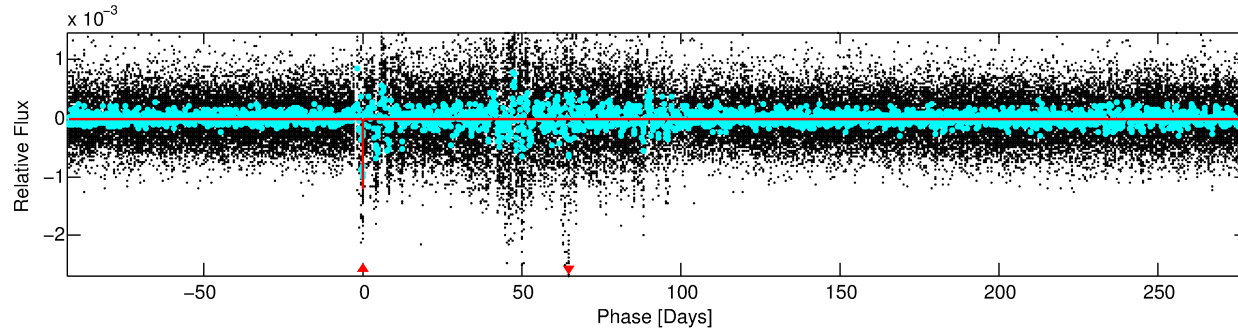
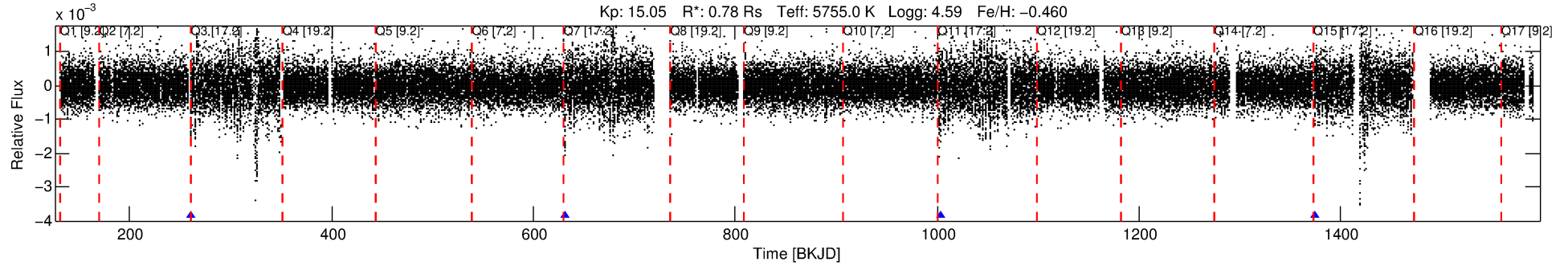
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006195669-01

No Significant Match Found

DV One-Page Summary

KIC: 6195669 Candidate: 1 of 1 Period: 370.913 d



DV Fit Results:

Period = 370.91318 [0.01017] d
Epoch = 261.1707 [0.0184] BKJD
Rp/R* = 0.0404 [0.0031]
a/R* = 81.09 [11.02]
b = 0.95 [0.02]
Seff = 0.65 [0.20]
Teq = 229 [18] K
Rp = 3.42 [0.84] Re
a = 0.9575 [0.1897] AU
Ag = 25329.52 [10839.99] [2.34σ]
Teffp = 4458 [375] K [11.27σ]

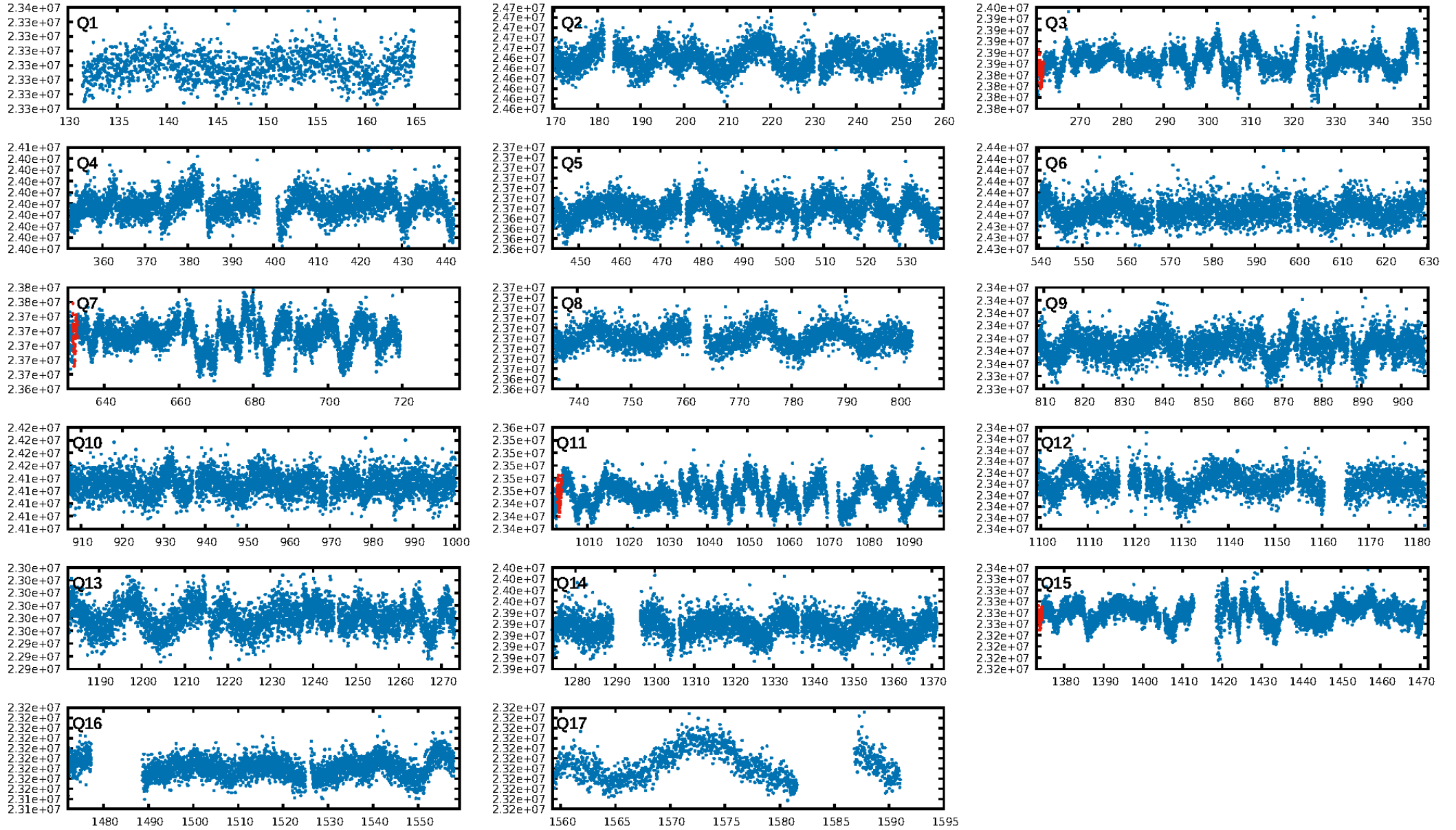
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 26.9%
ModelChiSquareGof-sig: 98.2%
Bootstrap-pfa: 2.86e-15
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -6.906
Centroid-sig: 0.0%
Centroid-so: 4.895 arcsec [3.49σ]
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: N/A

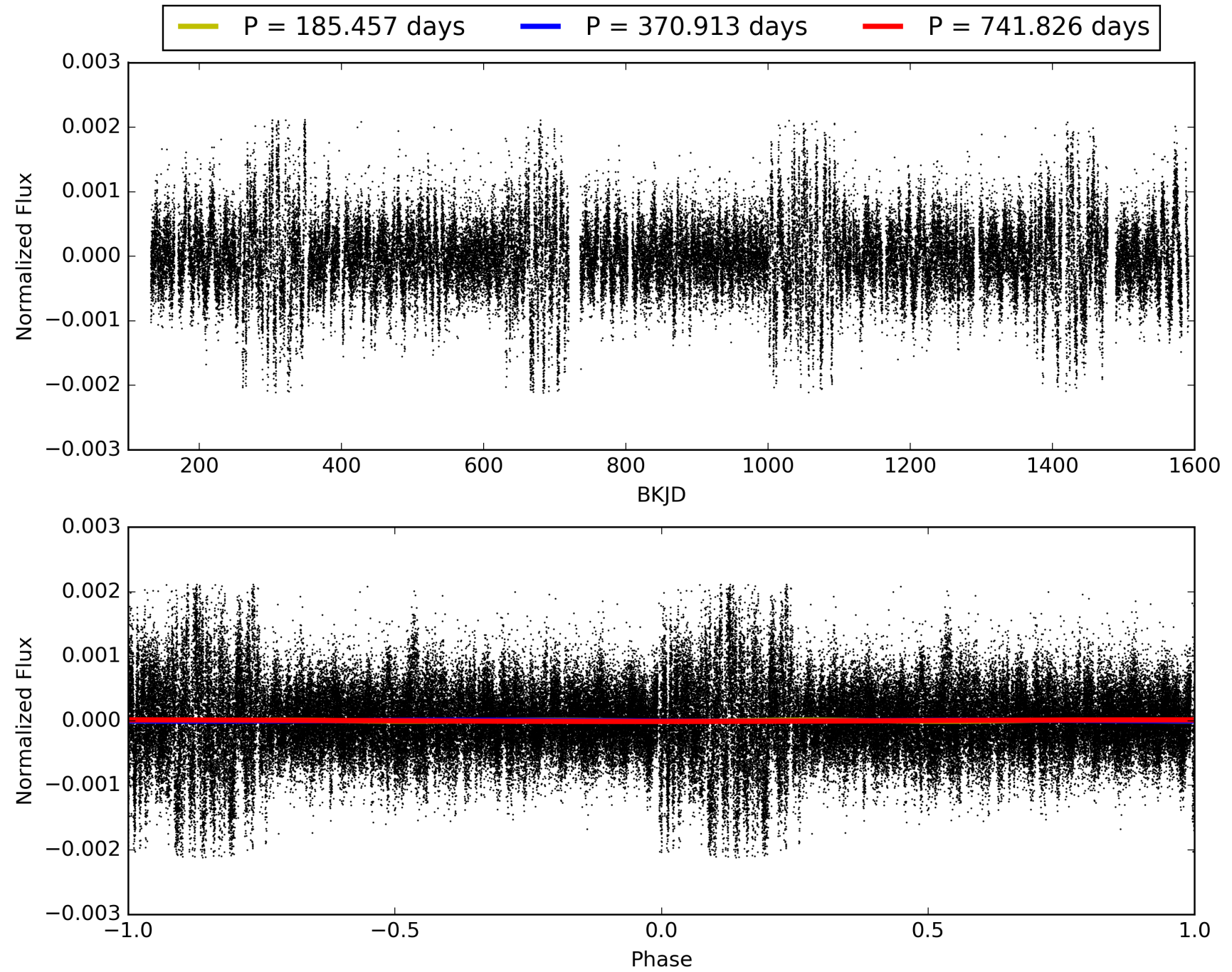
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:24:31 Z

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

TCE 006195669-01, PDC Light Curves

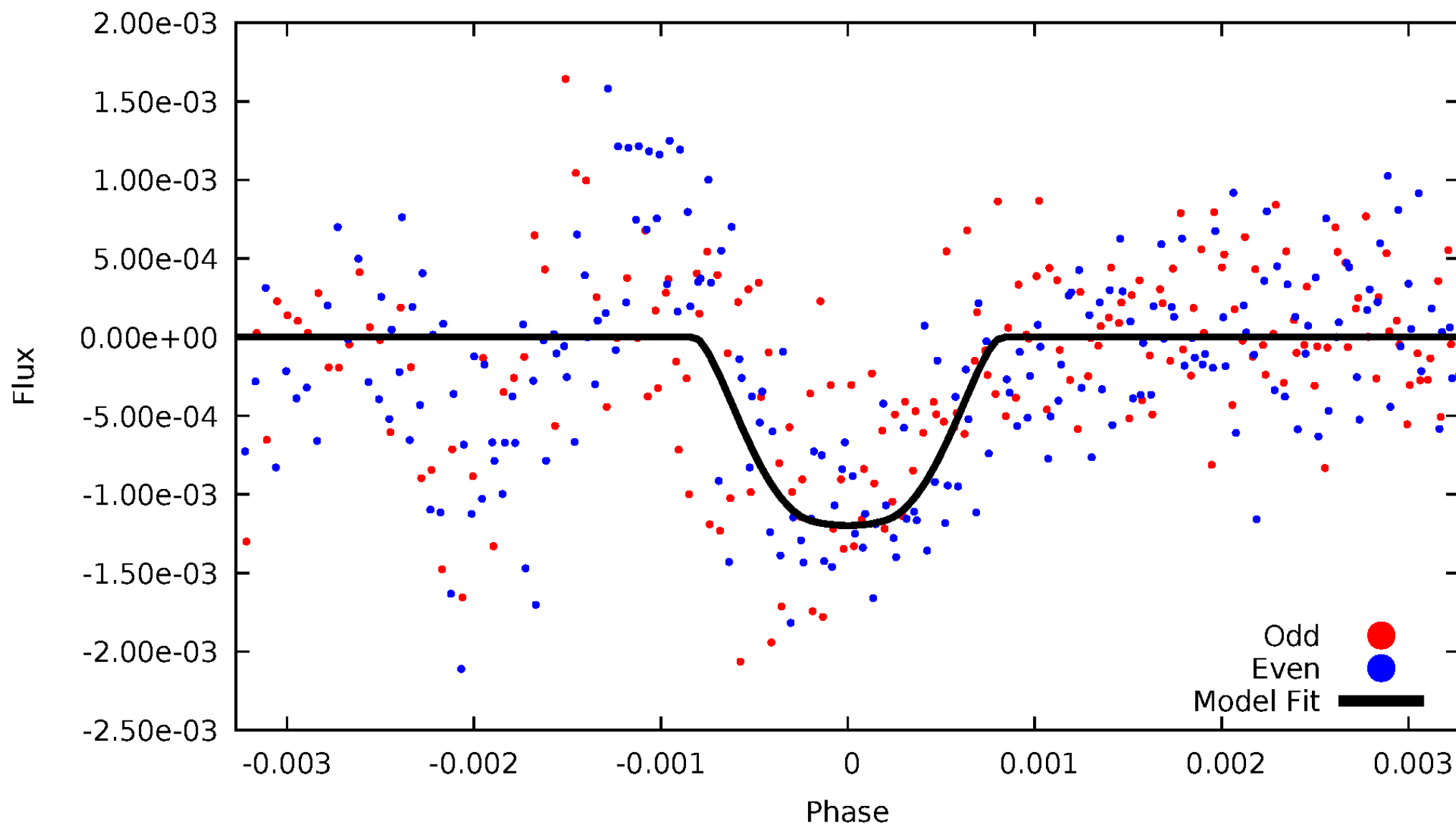


TCE 006195669-01



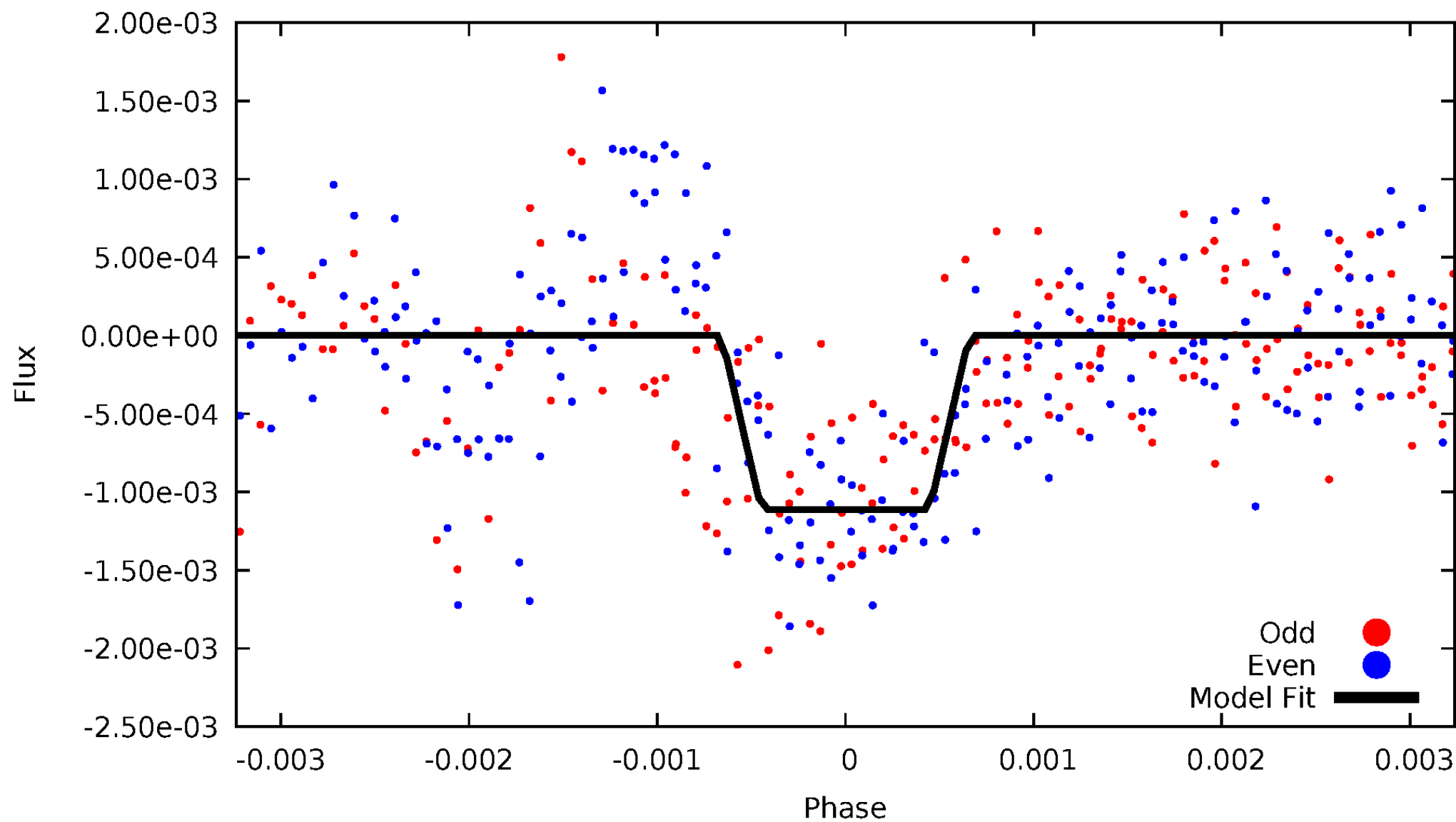
DV Odd/Even

TCE 006195669-01



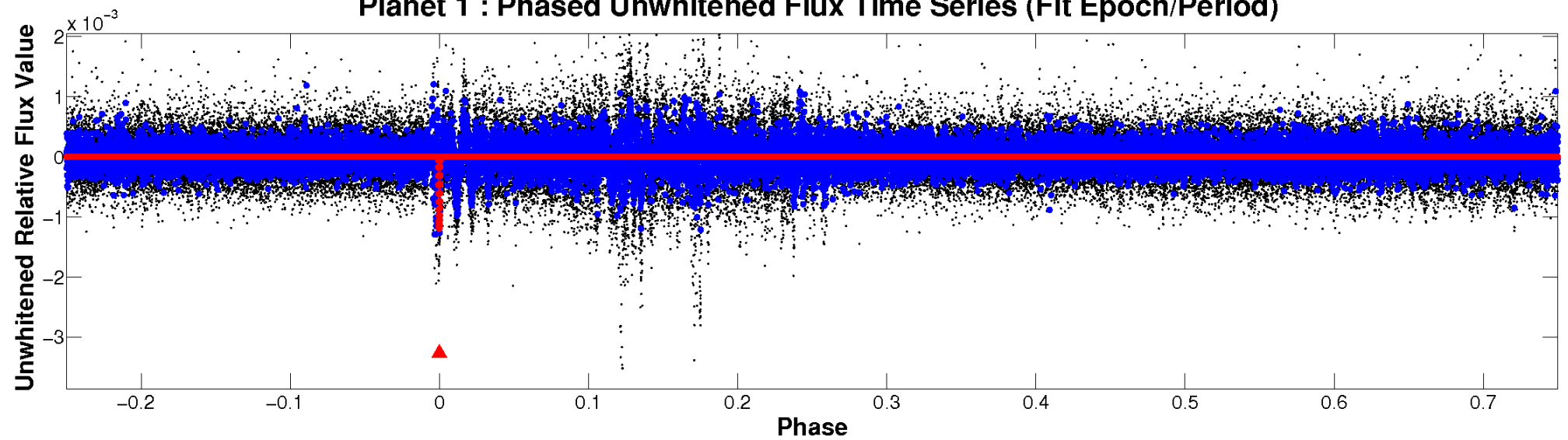
ALT Odd/Even

TCE 006195669-01

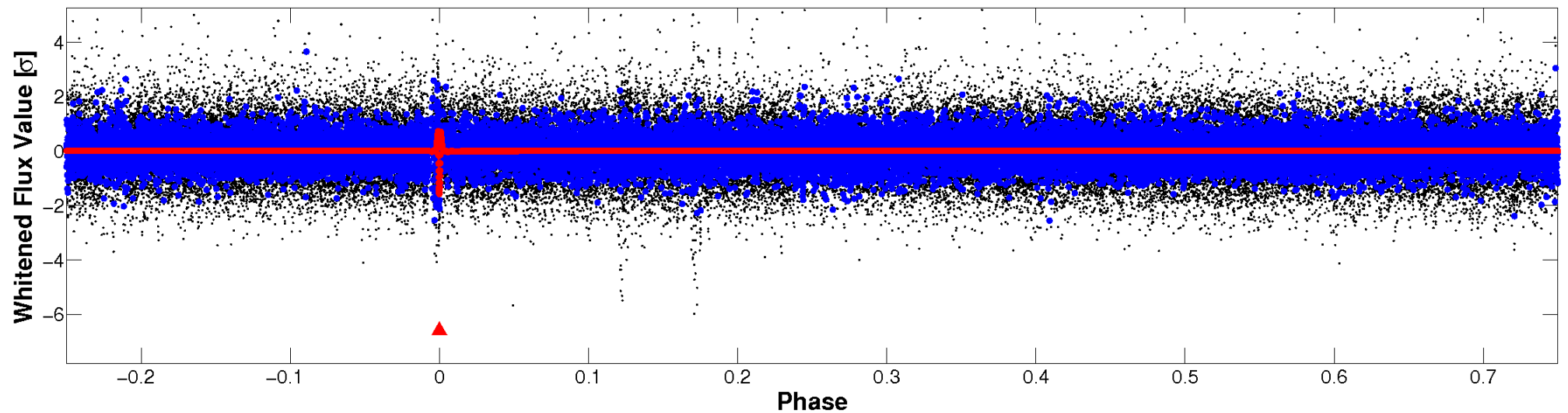


Non-Whitened Vs. Whitened Light Curve

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

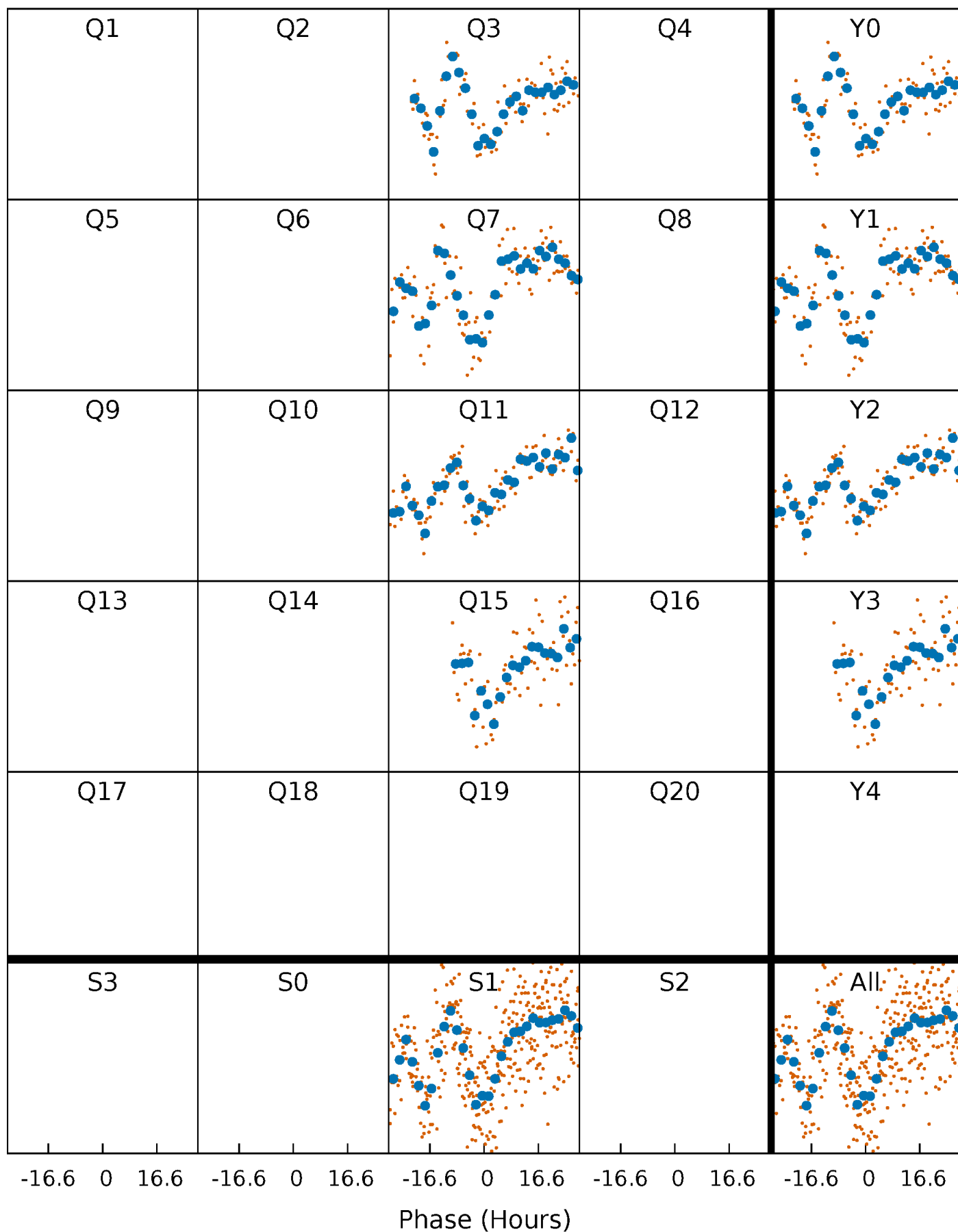


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



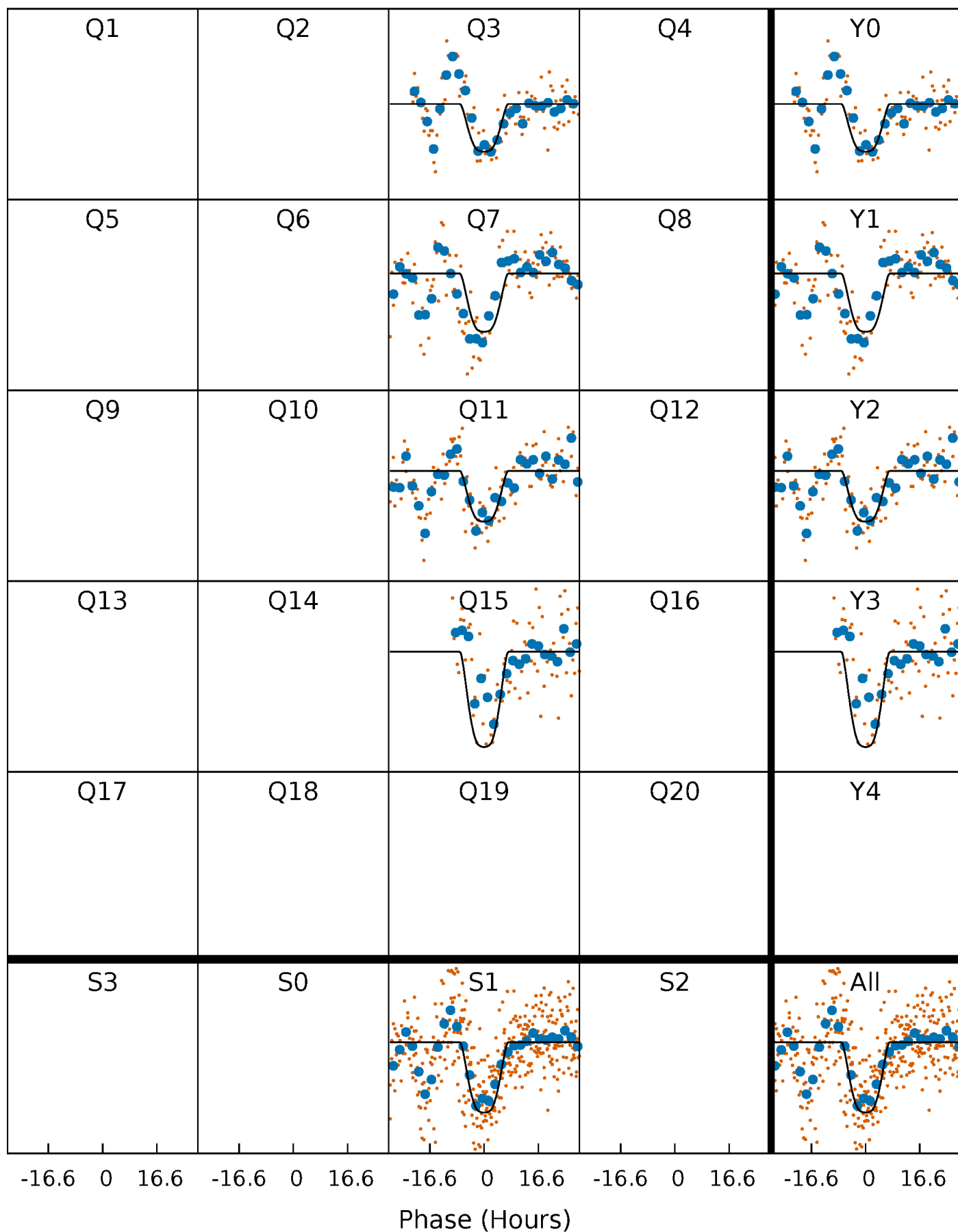
PDC Quarter-Phased Transit Curves

TCE 006195669-01 P=370.913180 Days $T_0=261.170686$ (BKJD)



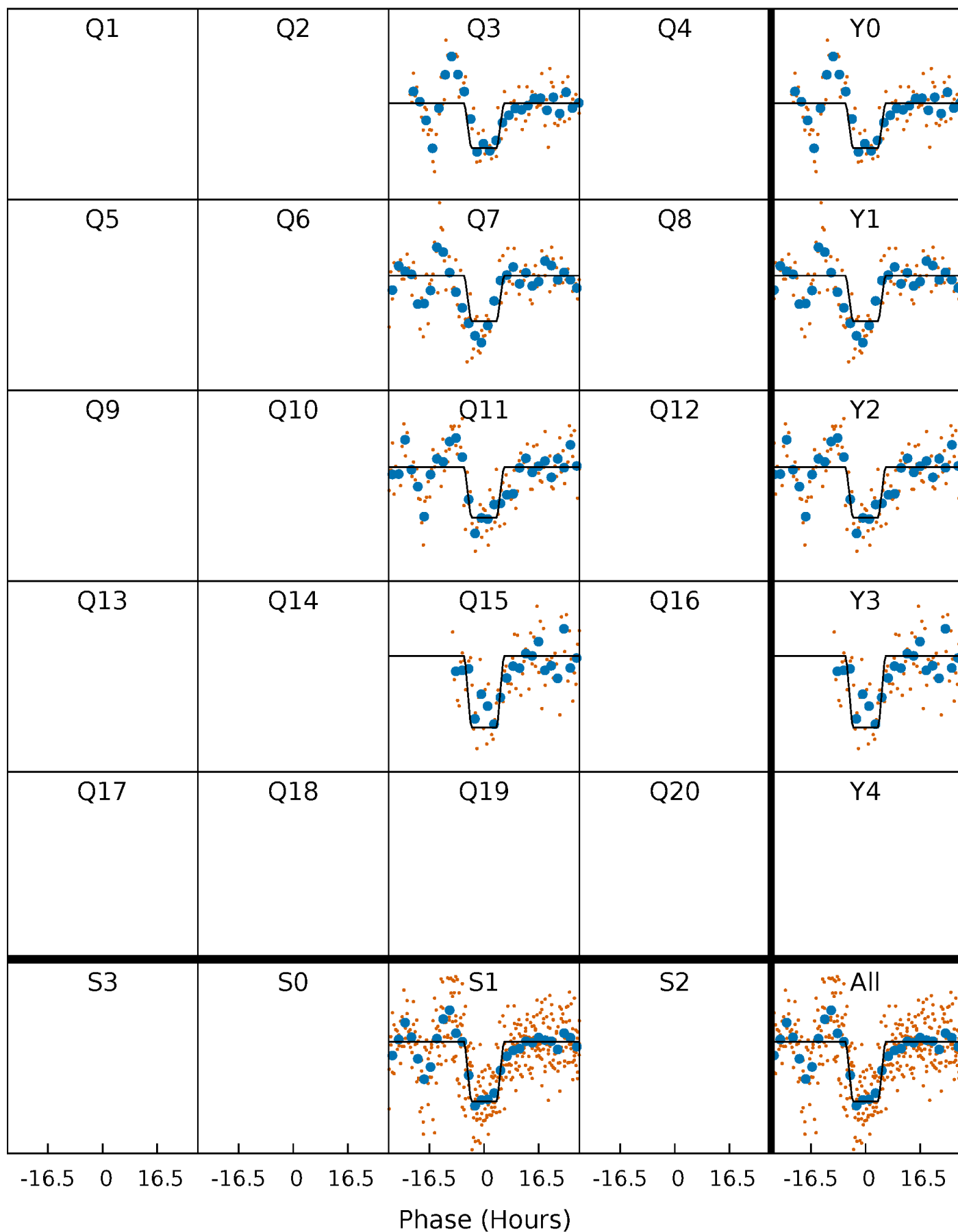
DV Quarter-Phased Transit Curves

TCE 006195669-01 P=370.913180 Days $T_0=261.170686$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

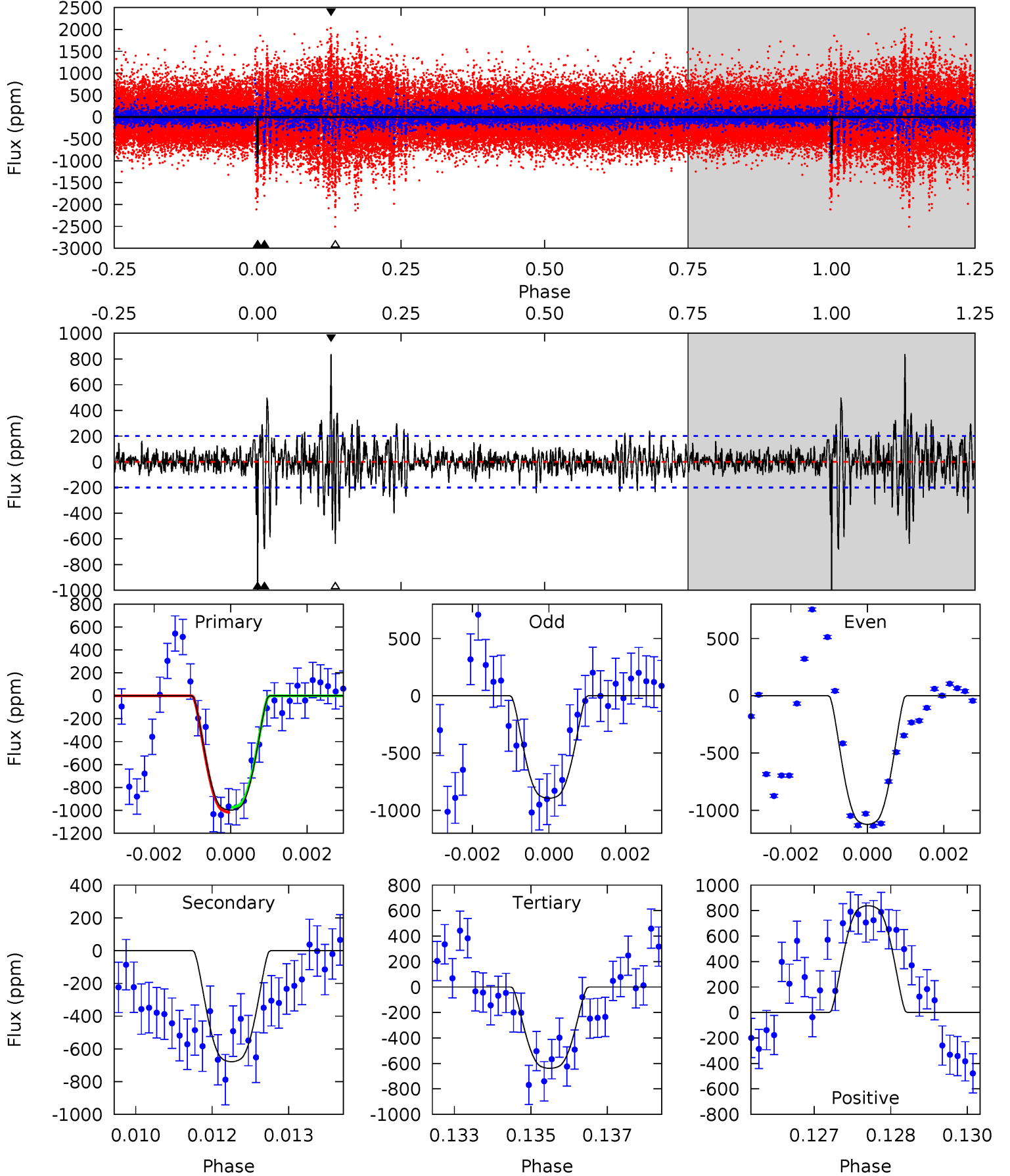
TCE 006195669-01 P=370.909981 Days $T_0=261.173910$ (BKJD)



DV Model-Shift Uniqueness Test

006195669-01, P = 370.913180 Days, E = 261.170686 Days

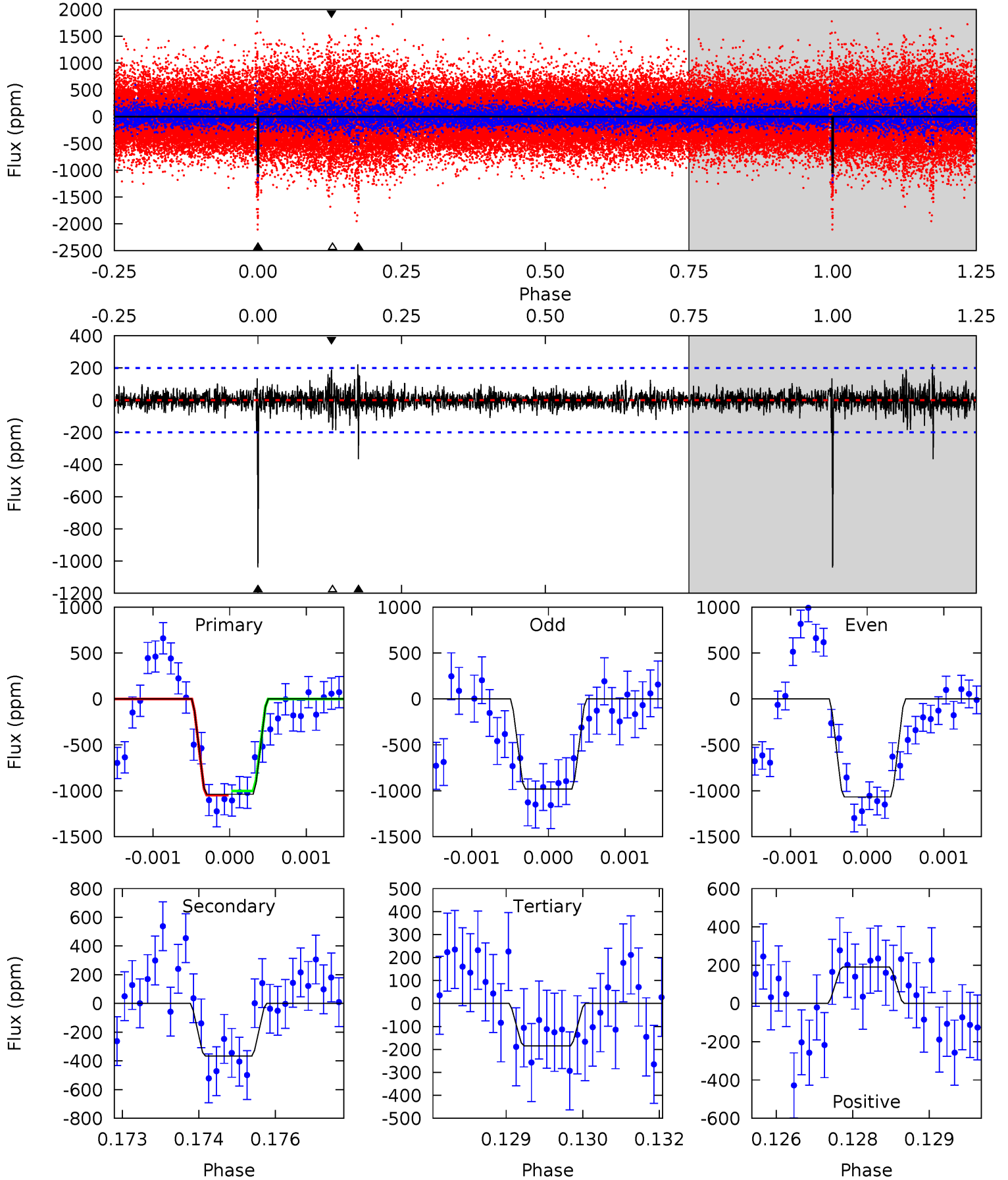
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.7	18.1	17.1	22.4	5.36	3.15	2.76	9.60	4.27	1.06	-4.27	3.04	0.90	0.46	0.57



Alt Model-Shift Uniqueness Test

006195669-01, P = 370.909981 Days, E = 261.173910 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.0	9.89	4.98	5.14	5.39	3.20	0.99	23.1	22.9	4.90	4.75	1.16	0.98	0.18	0.62



Stellar Parameters For KIC 006195669

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5755^{+155}_{-173}	$4.588^{+0.040}_{-0.160}$	$-0.460^{+0.300}_{-0.300}$	$0.776^{+0.181}_{-0.060}$	$0.850^{+0.088}_{-0.088}$	$2.567^{+0.414}_{-1.162}$
	+3%/-3%	+1%/-3%	+65%/-65%	+23%/-8%	+10%/-10%	+16%/-45%
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 006195669-01 / KOI 8262.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-678 ± 37	$3.51^{+0.47}_{-0.35}$	324^{+17}_{-13}	4748^{+200}_{-185}	27192^{+6066}_{-5459}
Alt.	-366 ± 37	$2.94^{+0.43}_{-0.34}$	326^{+18}_{-15}	4523^{+220}_{-197}	21029^{+6142}_{-5216}

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

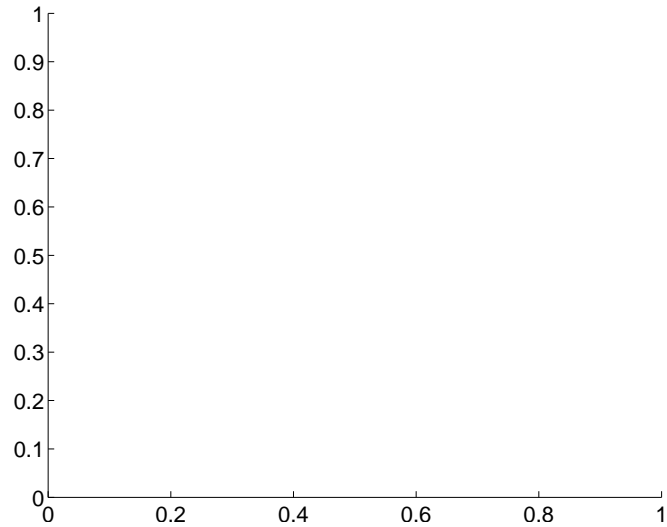
Supplemental centroid analysis for 006195669-01. Kepler magnitude: 15.05. Transit SNR 13.01

There are 0 quarters with good PRF difference image offsets

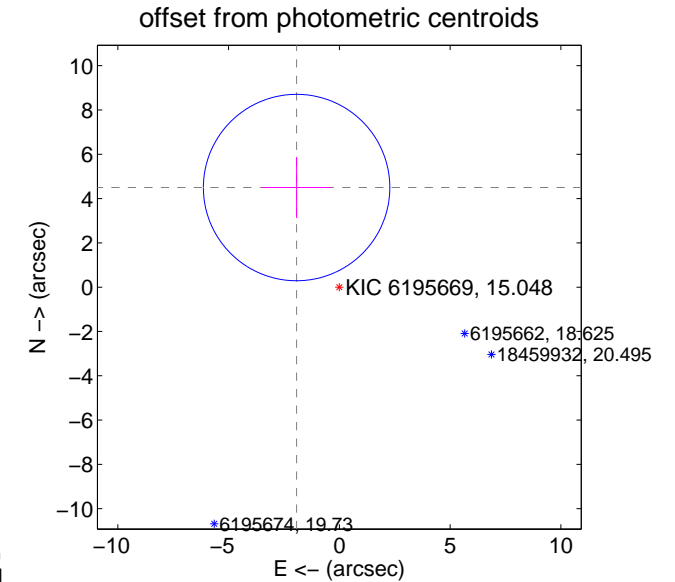
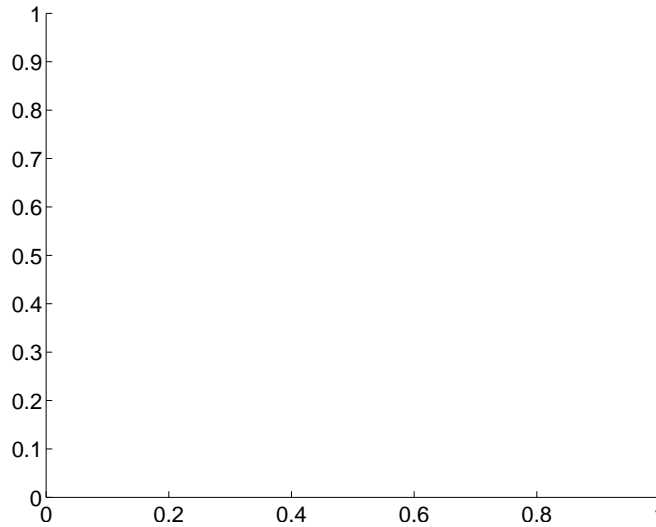
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	4.89 ± 1.40	3.49	1.93 ± 1.55	4.50 ± 1.37

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.



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



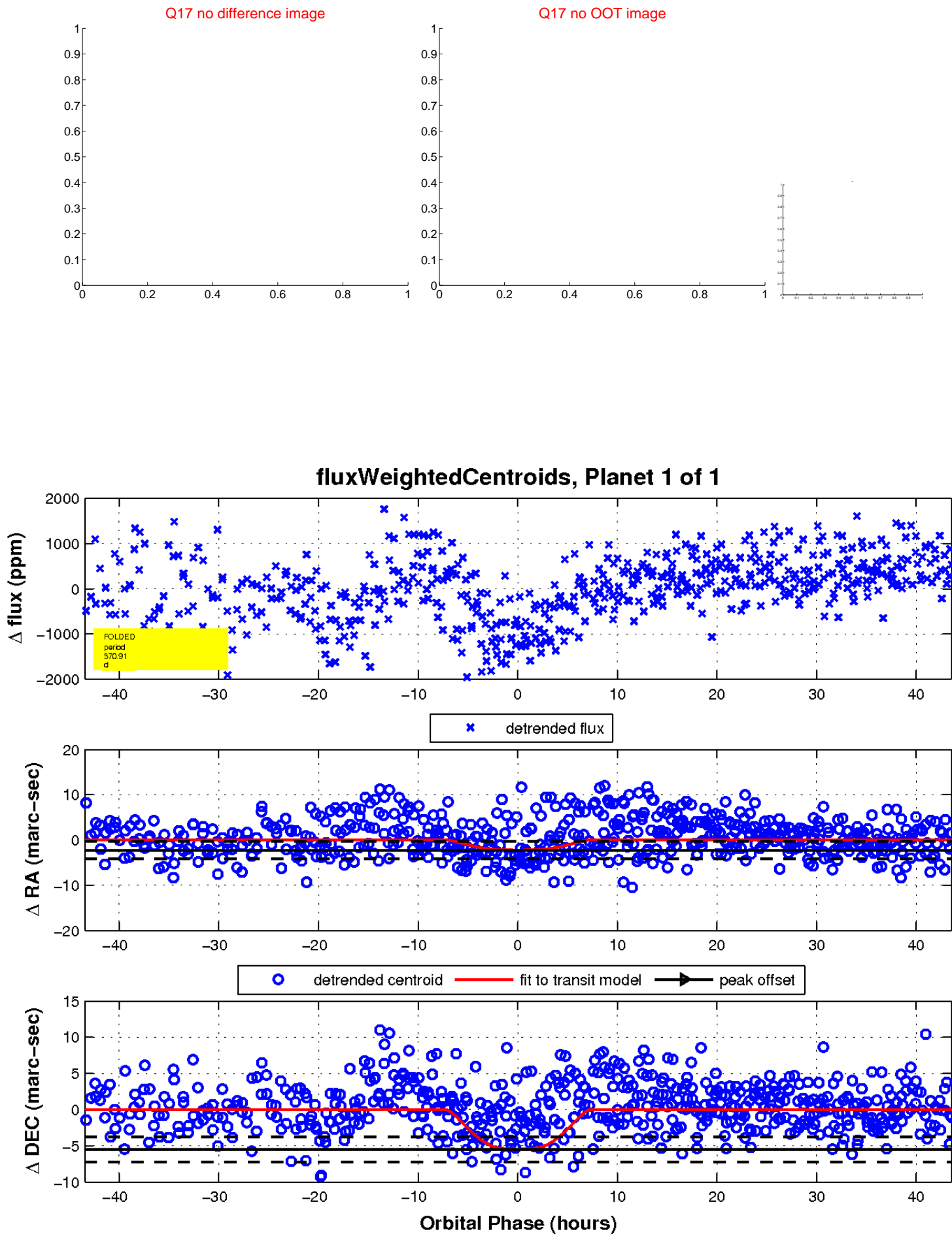
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

