

KIC 007692736

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})
007692736-01	OBS	No	370.692053	231.029136	1603.5	31.044	8.0	9.4	1.07	6371	7.87	1.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692736-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—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.

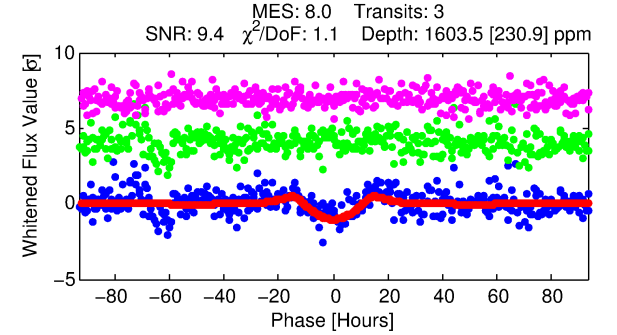
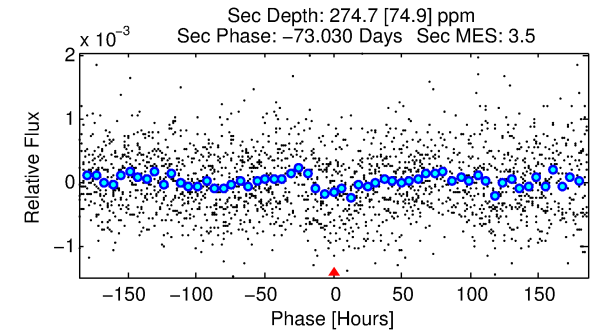
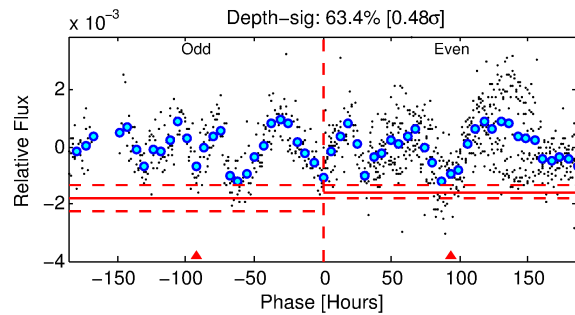
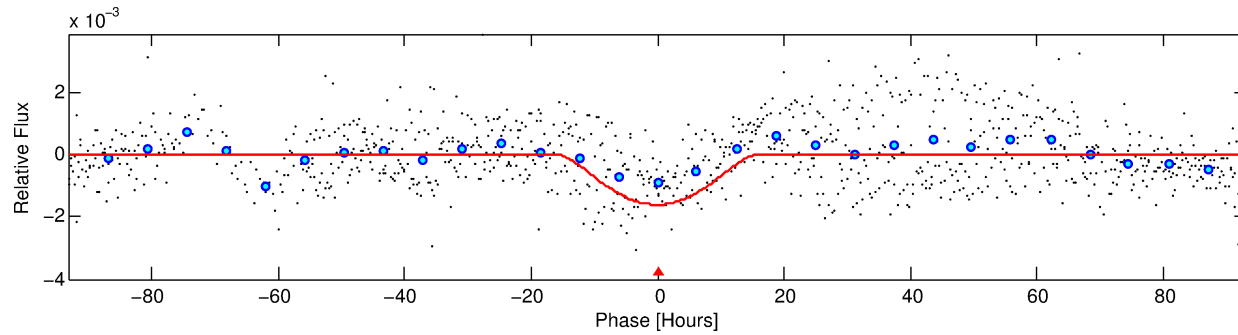
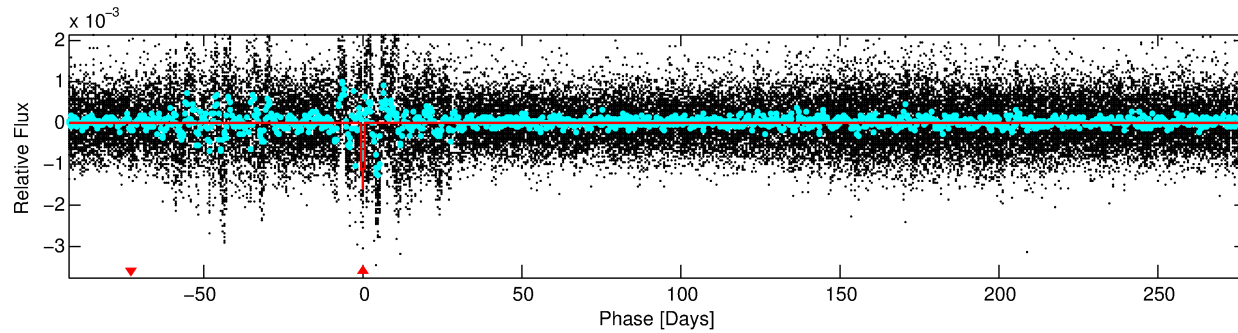
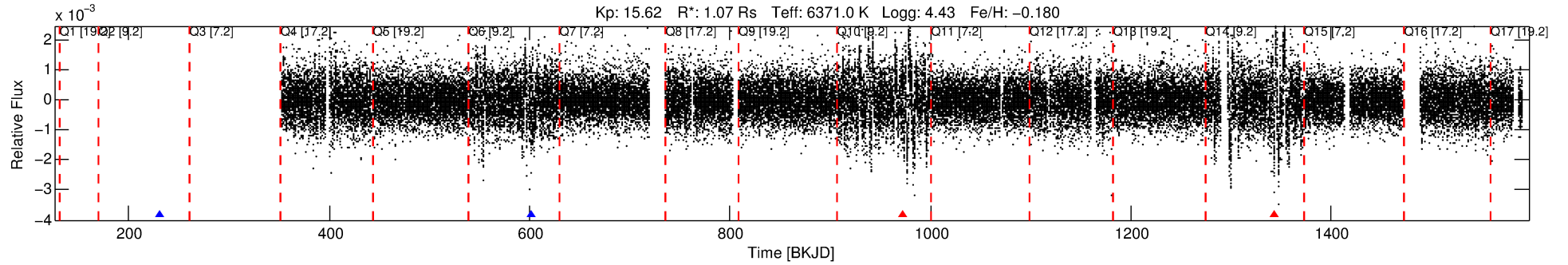
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692736-01

No Significant Match Found

DV One-Page Summary

KIC: 7692736 Candidate: 1 of 1 Period: 370.692 d



DV Fit Results:

Period = 370.69205 [0.03593] d
 Epoch = 231.0291 [0.0692] BKJD
 Rp/R* = 0.0673 [0.1419]
 a/R* = 34.49 [17.06]
 b = 1.00 [0.21]
 Seff = 1.54 [0.62]
 Teq = 284 [29] K
 Rp = 7.87 [16.79] Re
 a = 1.0483 [0.2743] AU
 Ag = 2682.60 [11389.40] [0.24 σ]
 Tefp = 3163 [3346] K [0.86 σ]

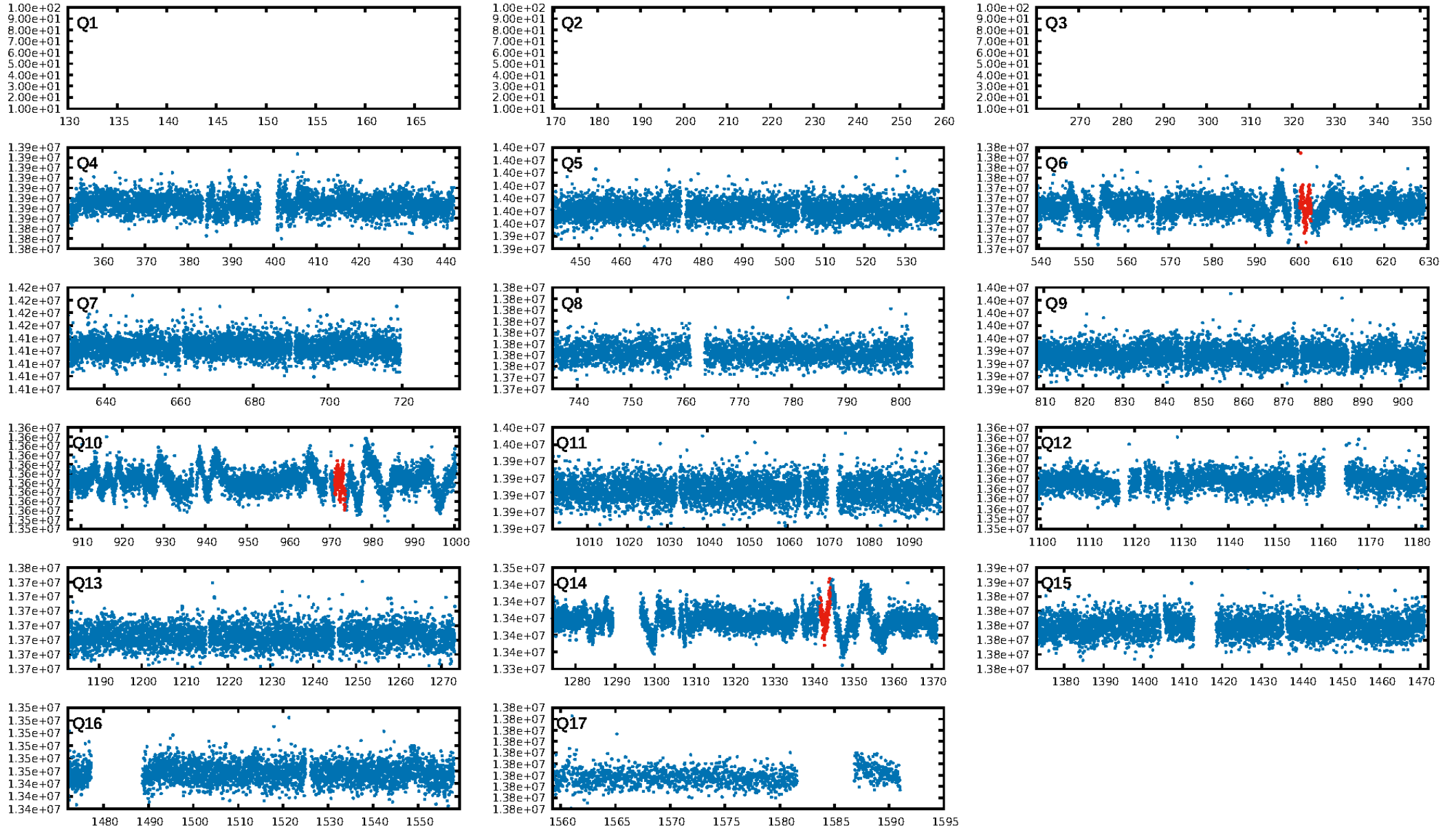
DV Diagnostic Results:

ShortPeriod-sig: N/A
 LongPeriod-sig: N/A
 ModelChiSquare2-sig: 31.7%
 ModelChiSquareGof-sig: 99.9%
 Bootstrap-pfa: 2.12e-11
 RollingBand-fgt: 0.33 [1/3]
 GhostDiagnostic-chr: 5.244
 Centroid-sig: 0.0%
 Centroid-so: 7.034 arcsec [2.97 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 [1/1]

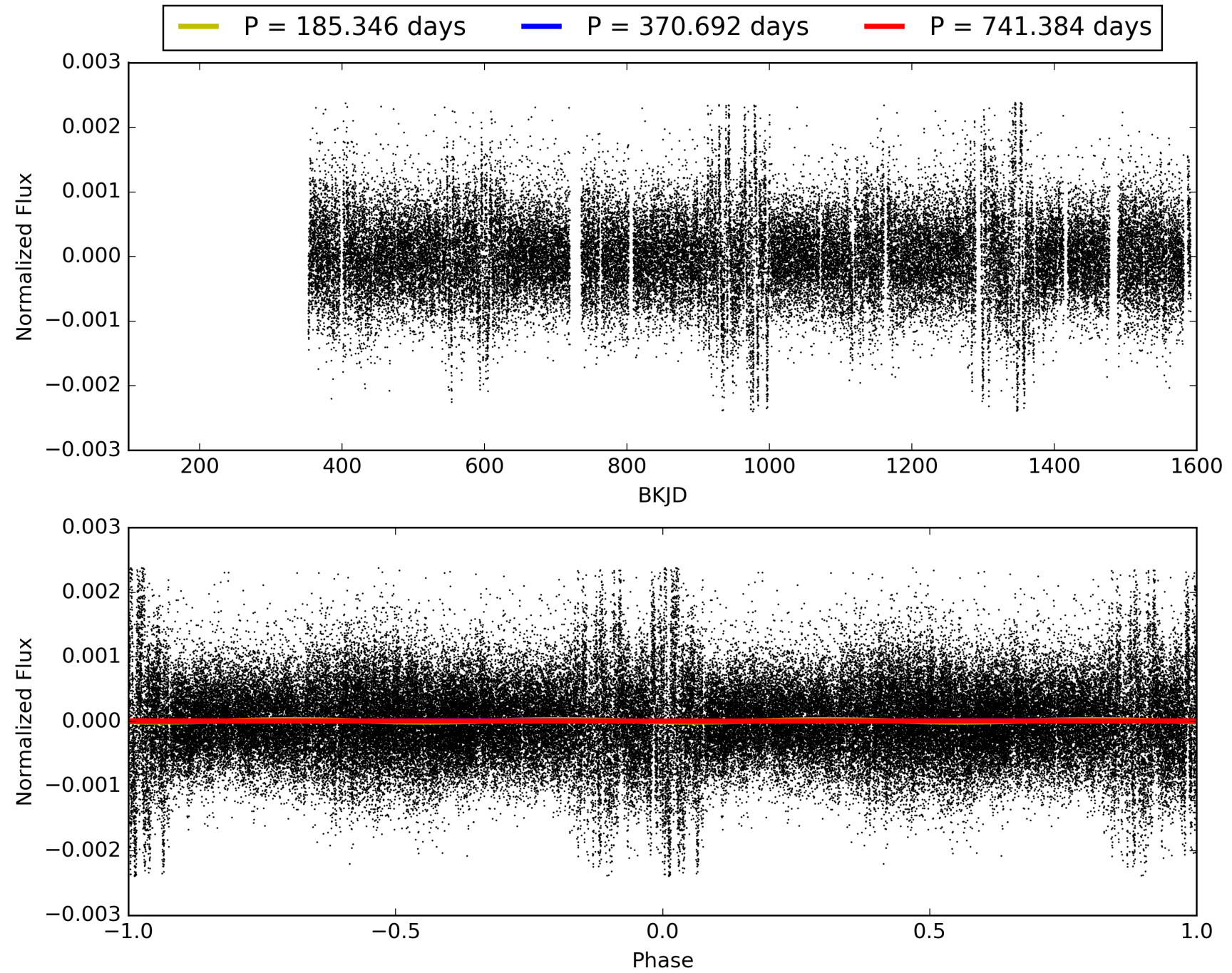
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:52:19 Z

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

TCE 007692736-01, PDC Light Curves

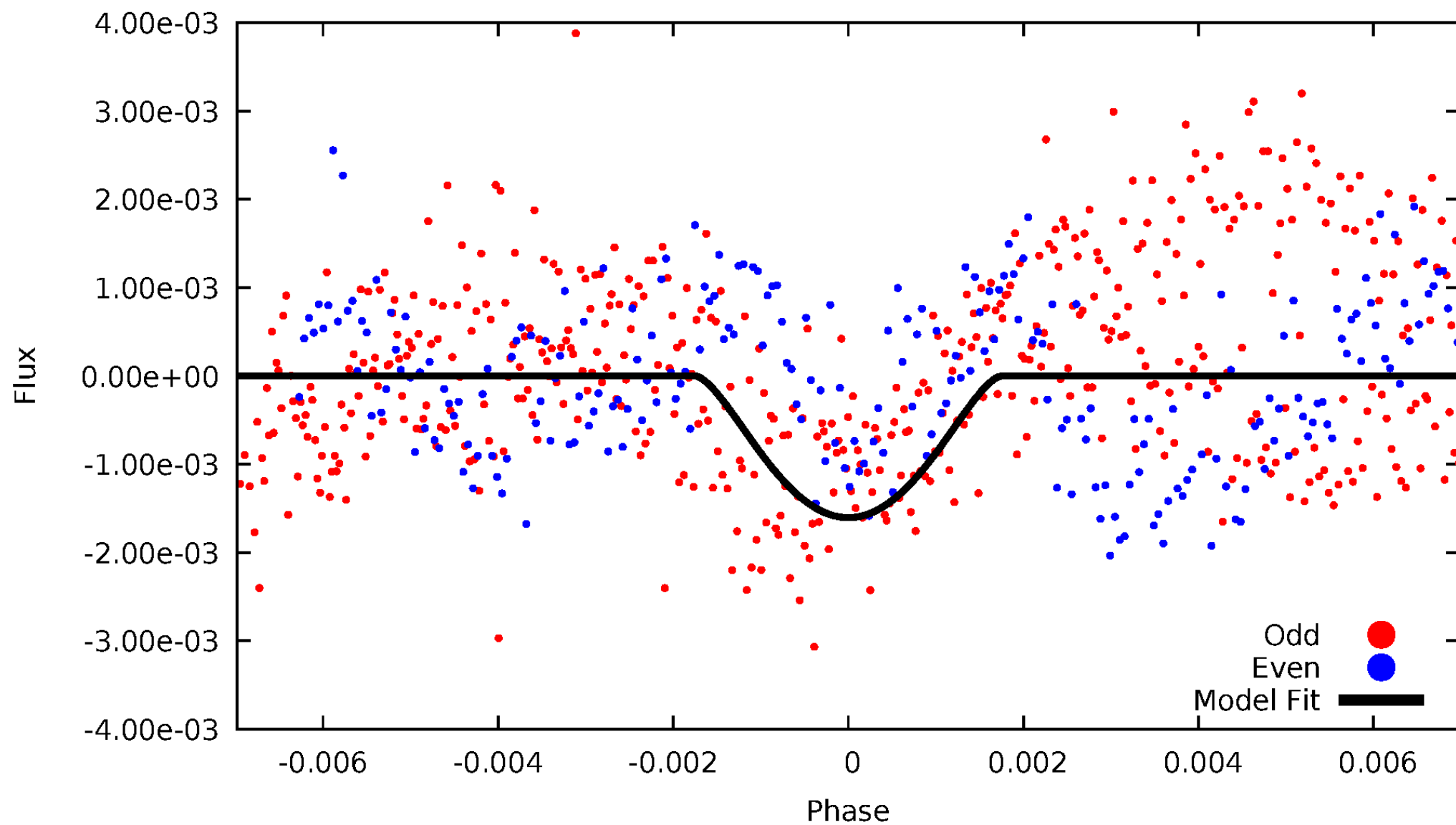


TCE 007692736-01



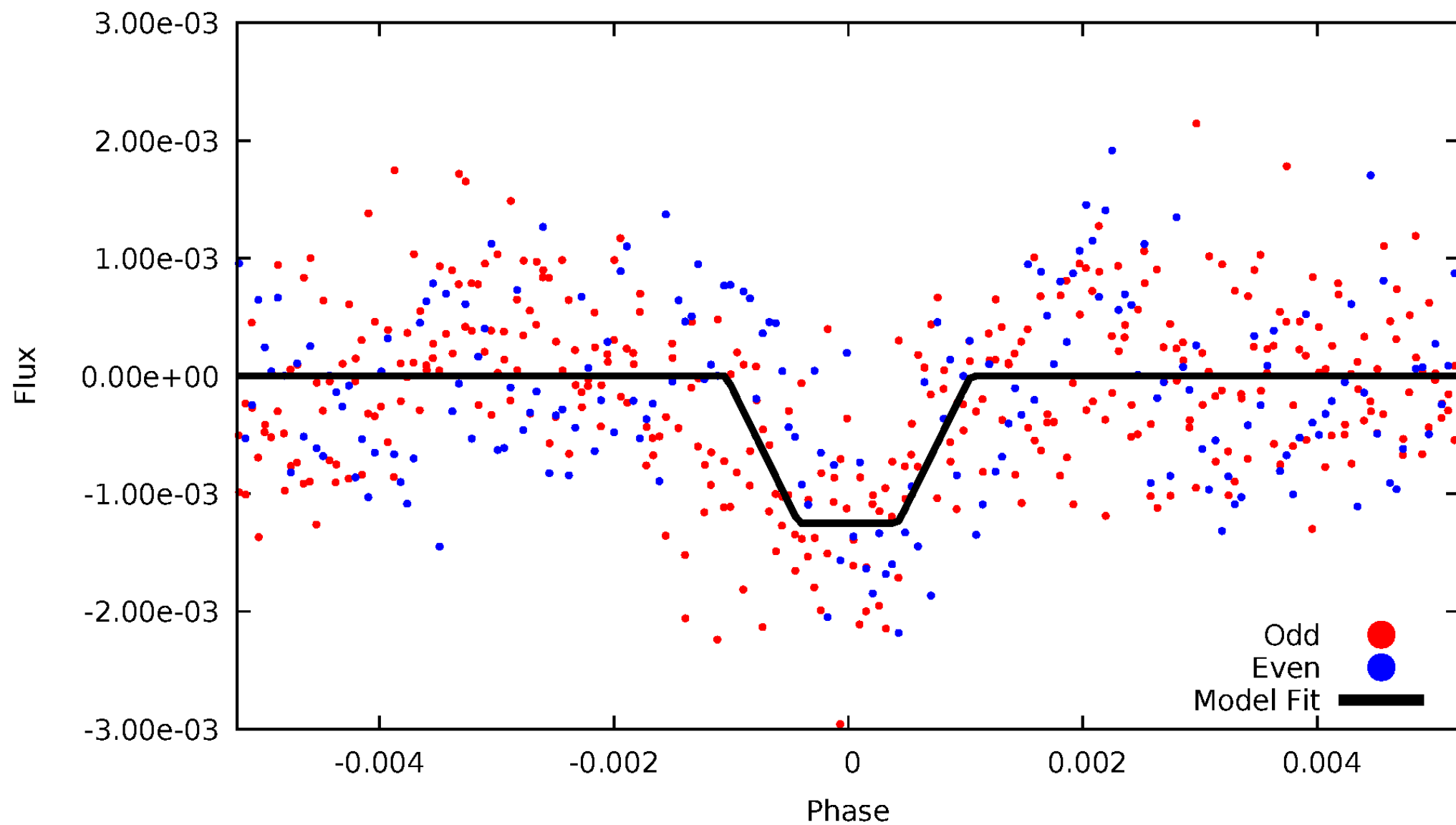
DV Odd/Even

TCE 007692736-01



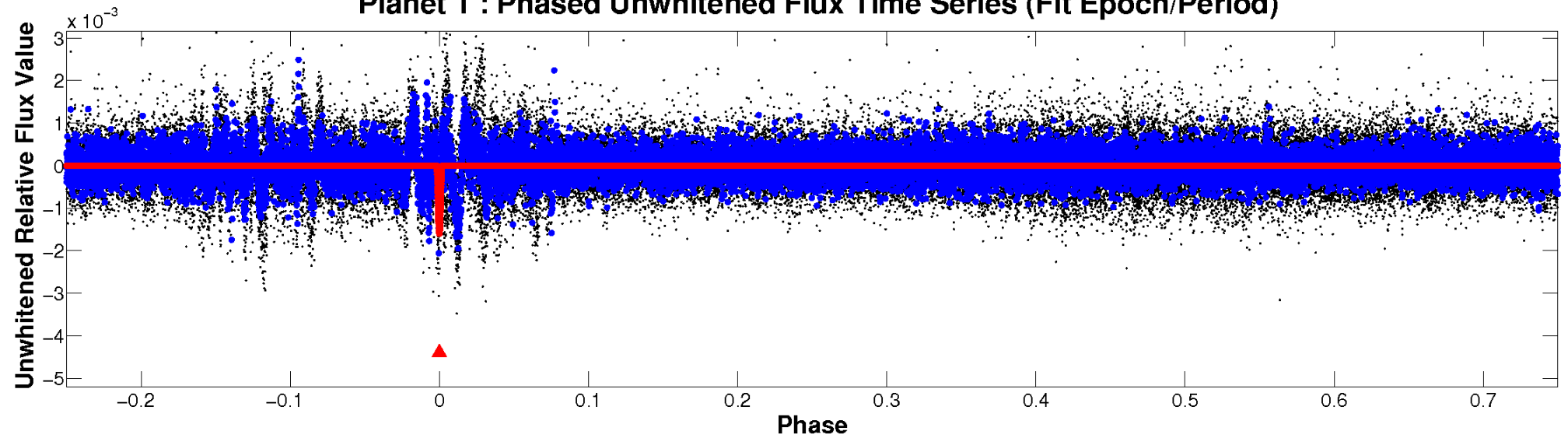
ALT Odd/Even

TCE 007692736-01

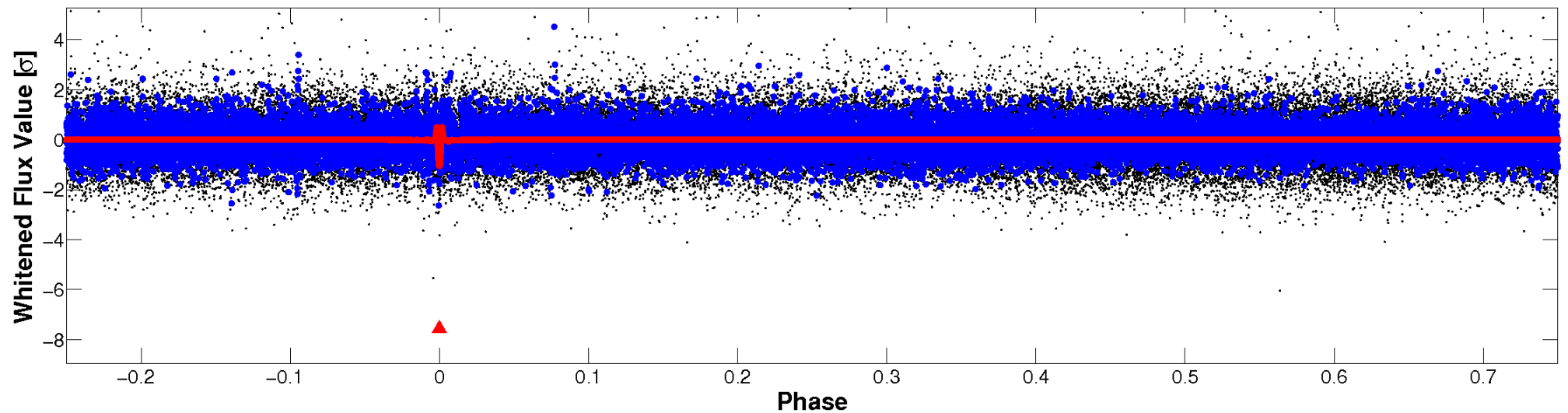


Non-Whitened Vs. Whitened Light Curve

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

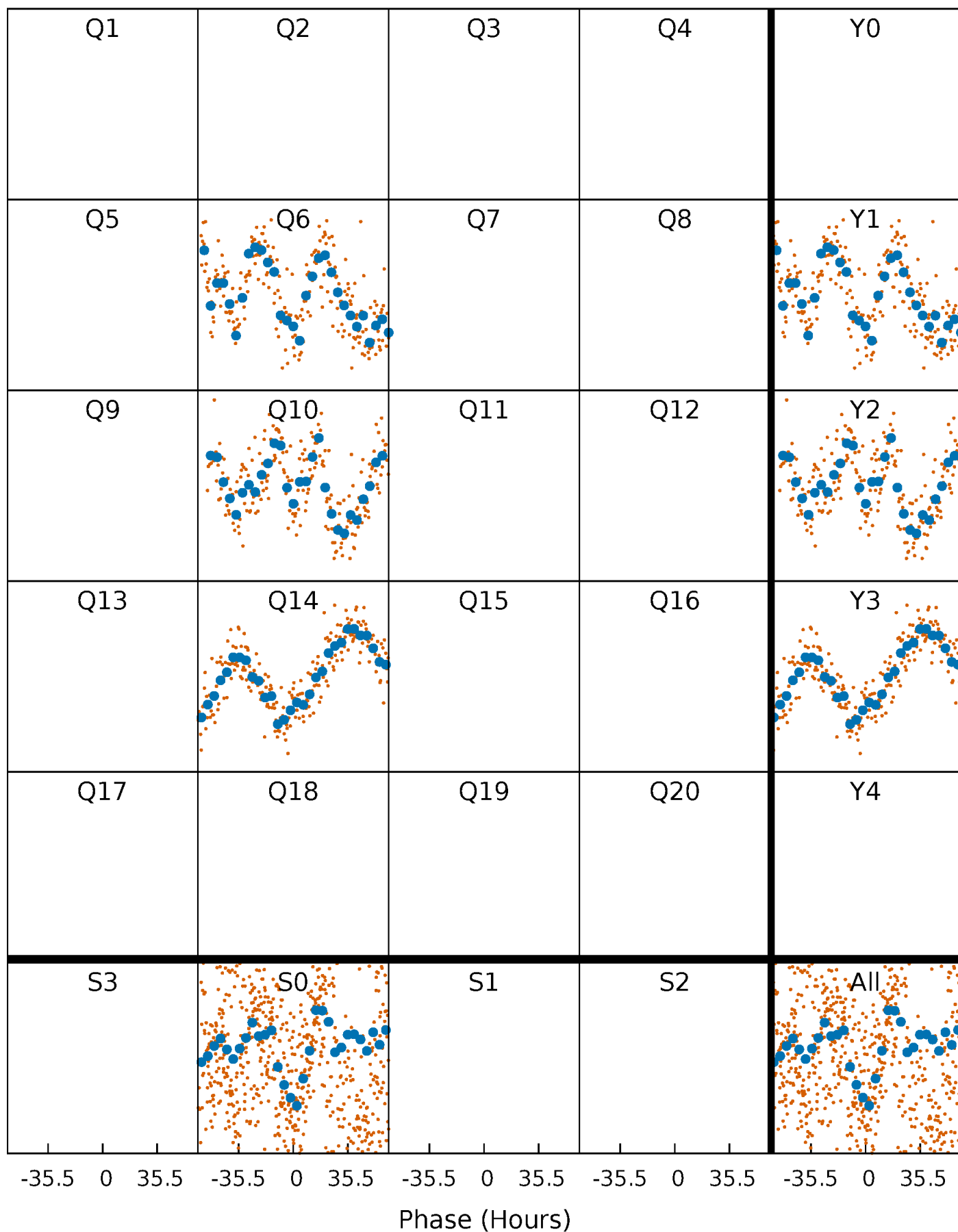


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



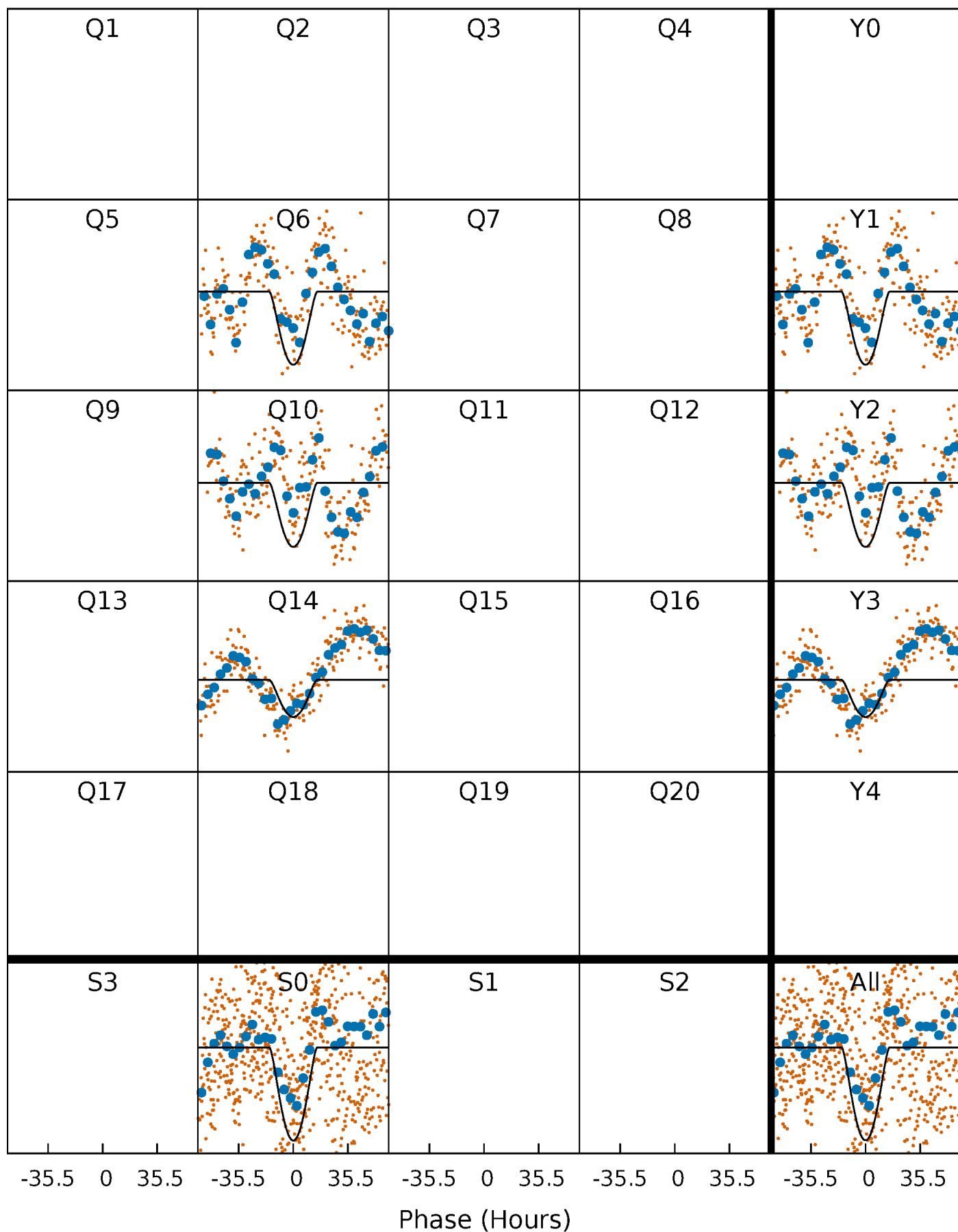
PDC Quarter-Phased Transit Curves

TCE 007692736-01 P=370.692053 Days $T_0=231.029136$ (BKJD)



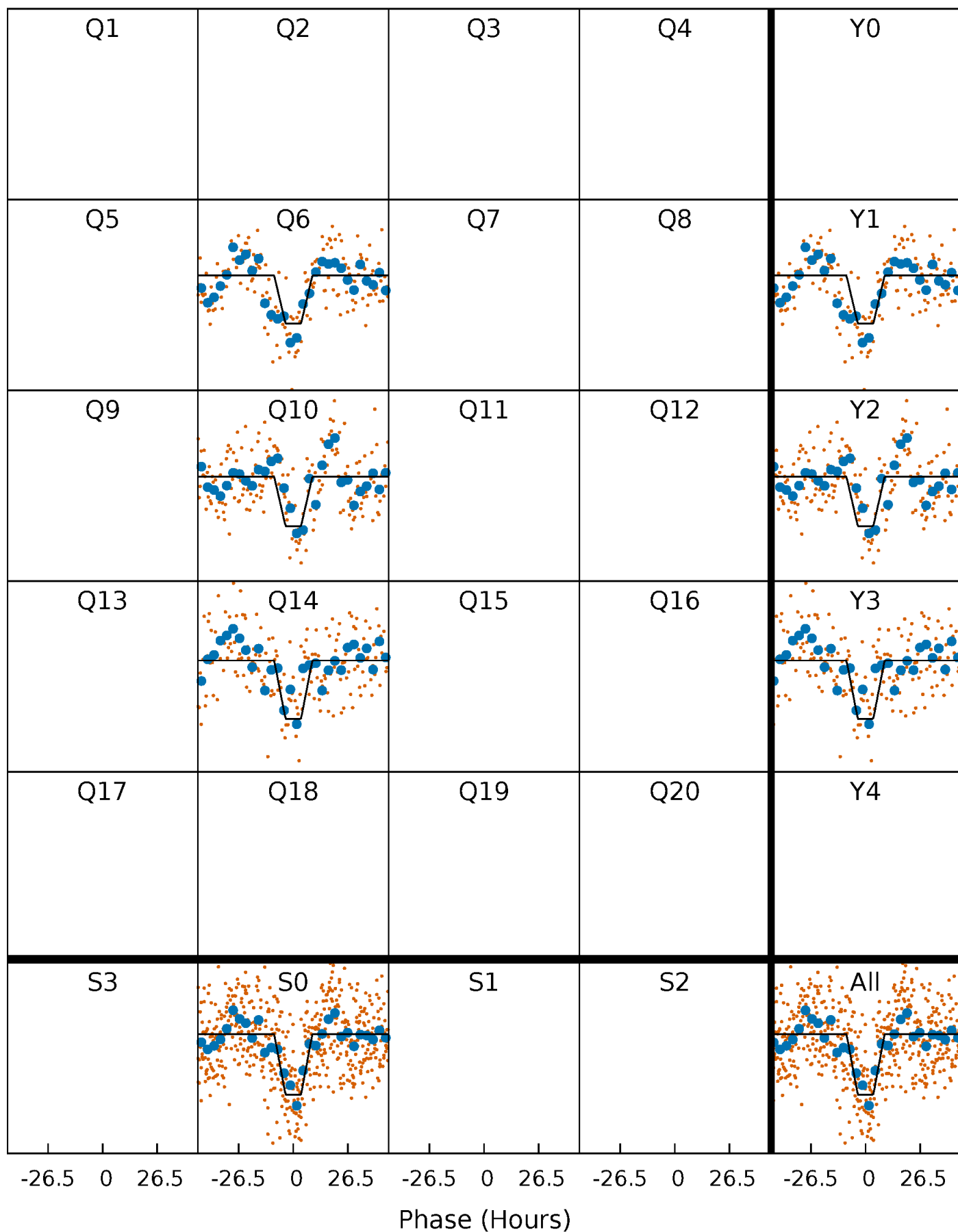
DV Quarter-Phased Transit Curves

TCE 007692736-01 P=370.692053 Days $T_0=231.029136$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

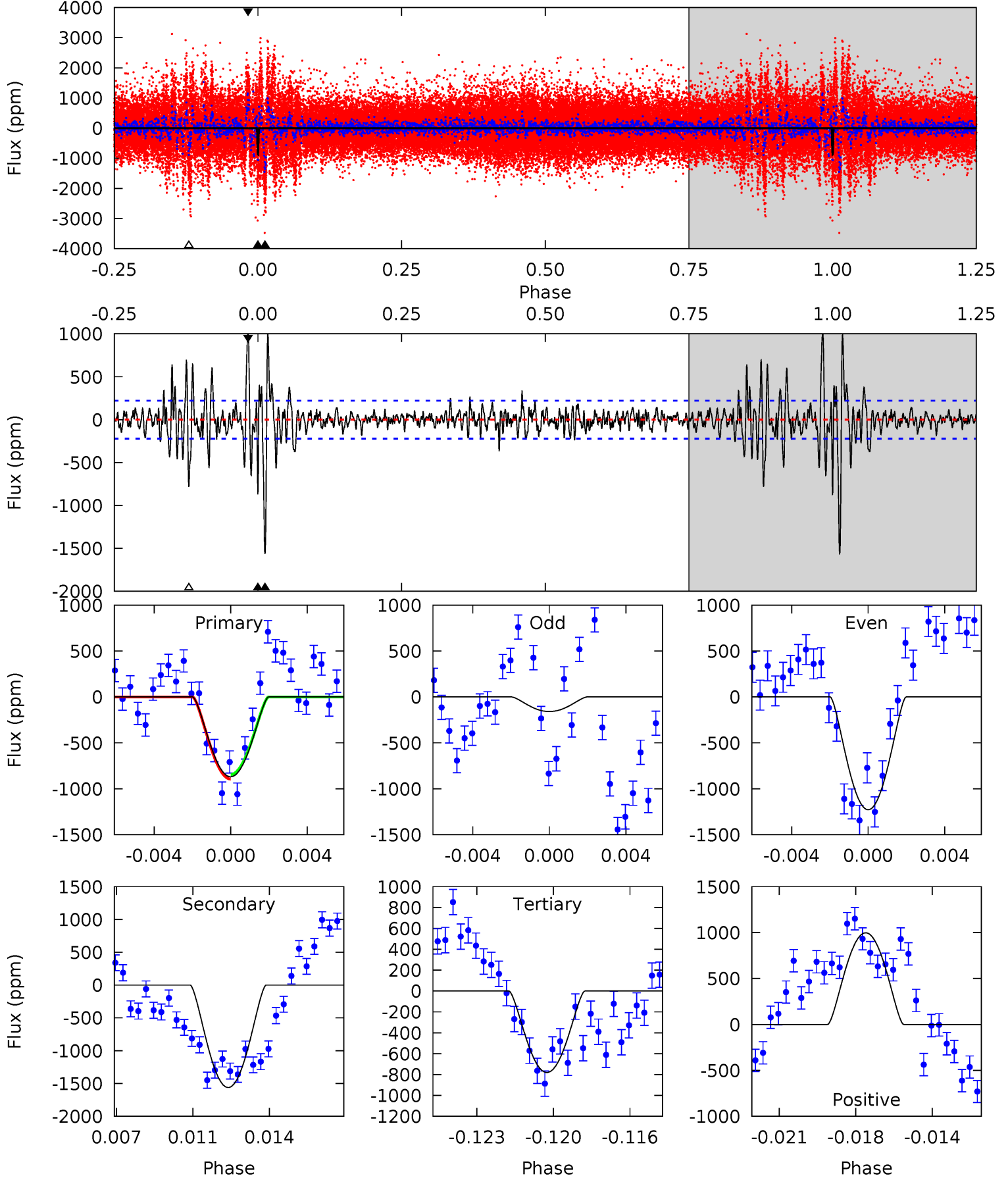
TCE 007692736-01 P=370.501310 Days $T_0=231.338590$ (BKJD)



DV Model-Shift Uniqueness Test

007692736-01, P = 370.692053 Days, E = 231.029136 Days

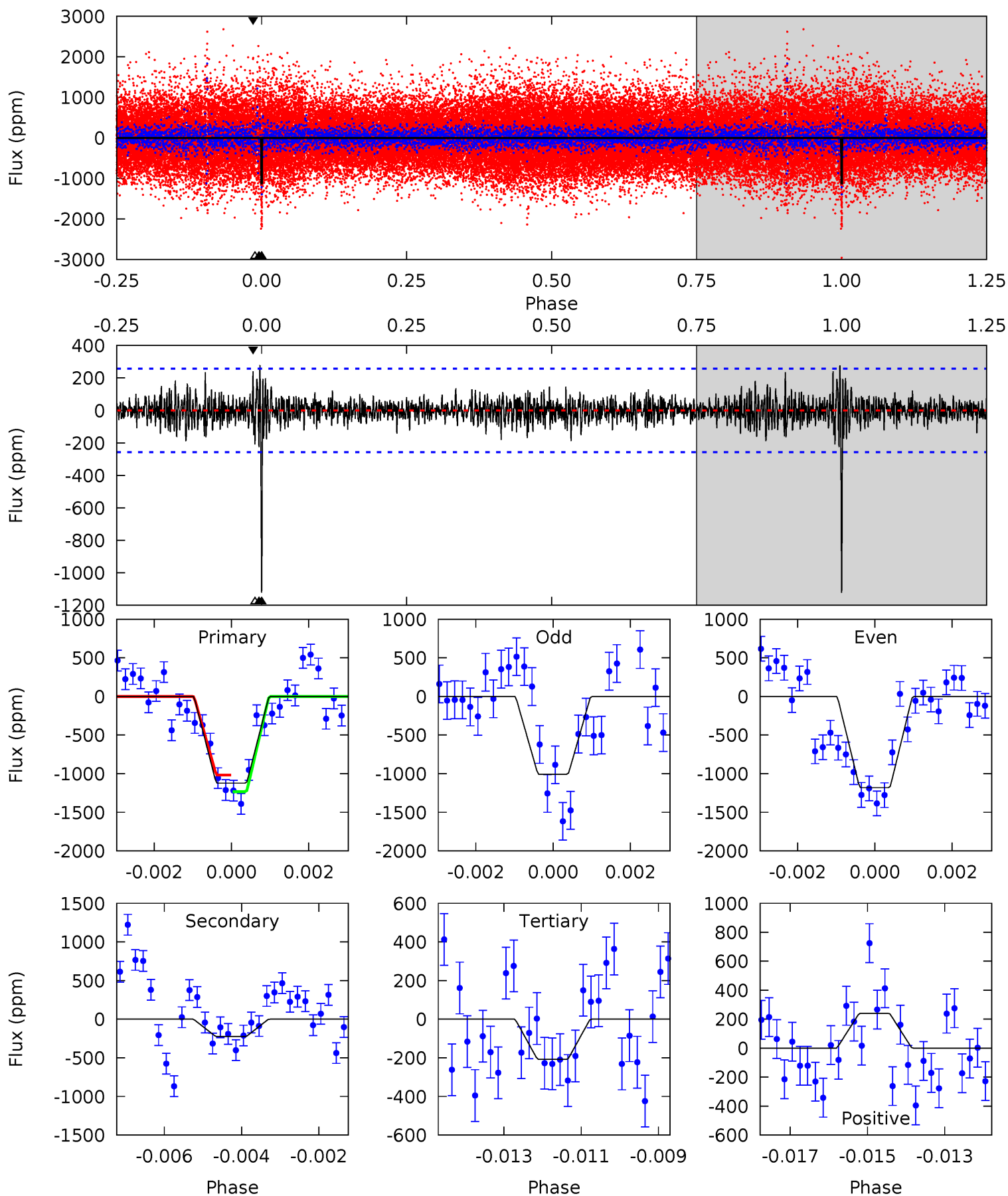
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.6	37.0	18.5	23.6	5.22	2.92	3.72	2.11	-3.03	18.5	13.4	11.8	1.07	0.39	0.58



Alt Model-Shift Uniqueness Test

007692736-01, P = 370.501310 Days, E = 231.338590 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.2	4.65	4.31	4.97	5.31	3.07	1.10	18.9	18.3	0.35	-0.32	1.69	1.12	0.20	2.24



Stellar Parameters For KIC 007692736

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6371^{+176}_{-242}	$4.426^{+0.067}_{-0.202}$	$-0.180^{+0.250}_{-0.300}$	$1.072^{+0.339}_{-0.121}$	$1.117^{+0.164}_{-0.164}$	$1.277^{+0.362}_{-0.669}$
	+3%/-4%	+2%/-5%	+139%/-167%	+32%/-11%	+15%/-15%	+28%/-52%
Source	KIC0	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 007692736-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1562 ± 42	$15.63^{+13.94}_{-10.29}$	403^{+29}_{-20}	3885^{+2221}_{-736}	3695^{+29569}_{-2621}
Alt.	-225 ± 48	$13.09^{+14.99}_{-9.13}$	404^{+29}_{-22}	3009^{+1474}_{-533}	727^{+7890}_{-564}

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

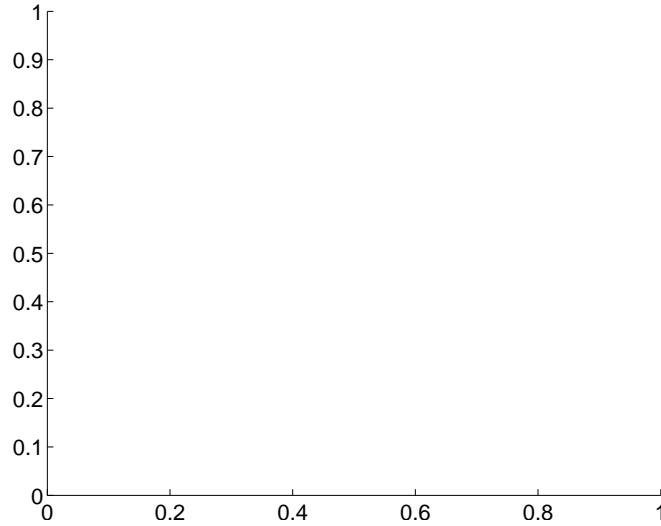
Supplemental centroid analysis for 007692736-01. Kepler magnitude: 15.62. Transit SNR 9.41

There are 0 quarters with good PRF difference image offsets

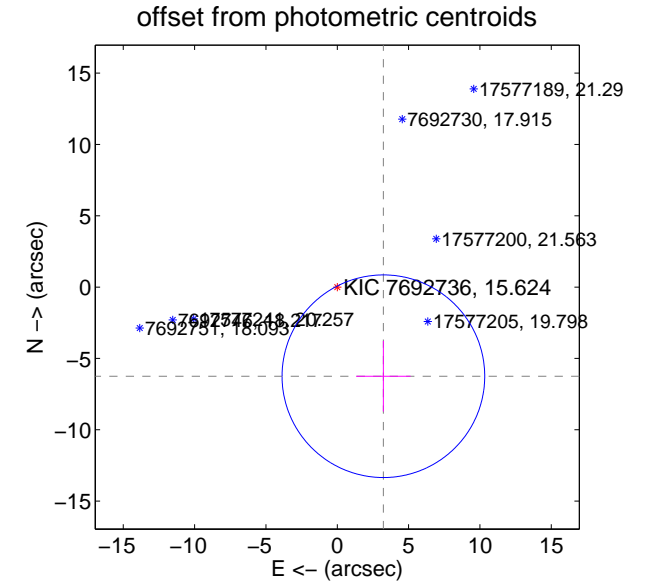
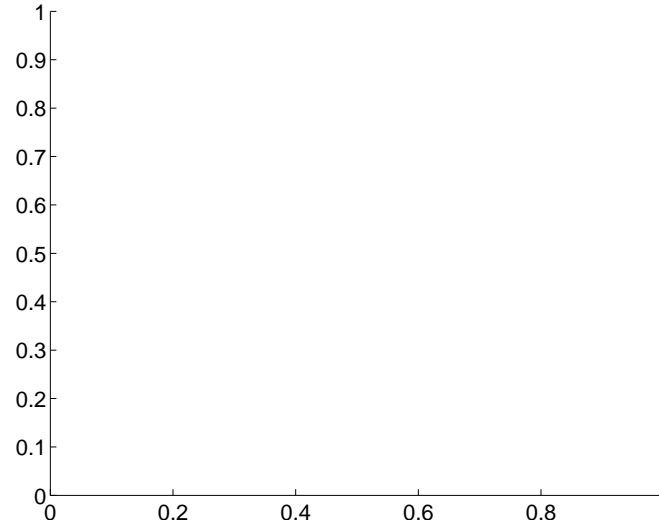
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	7.03 ± 2.37	2.97	-3.23 ± 1.91	-6.25 ± 2.48

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.



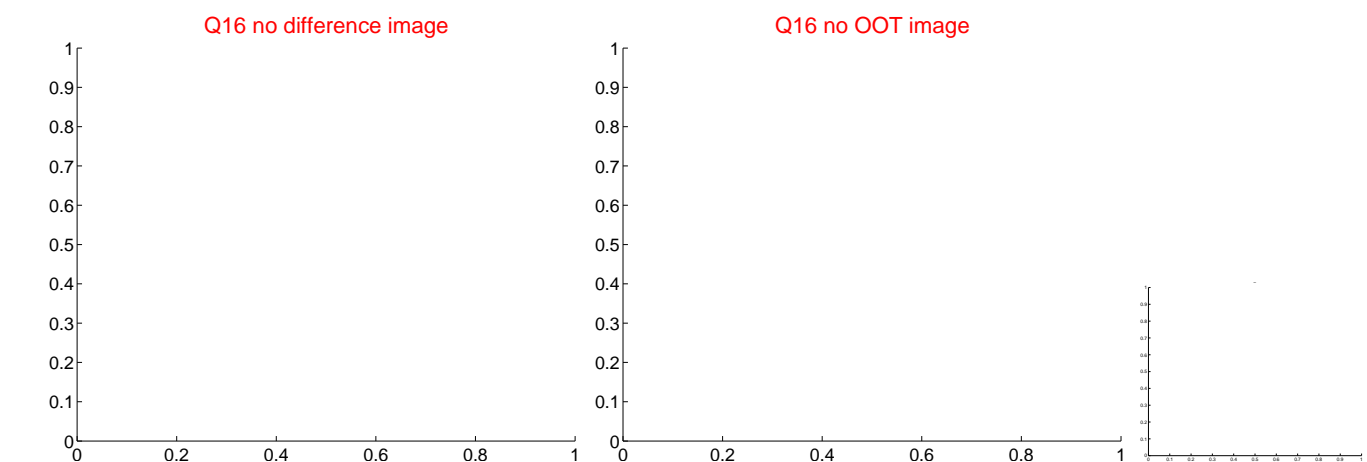
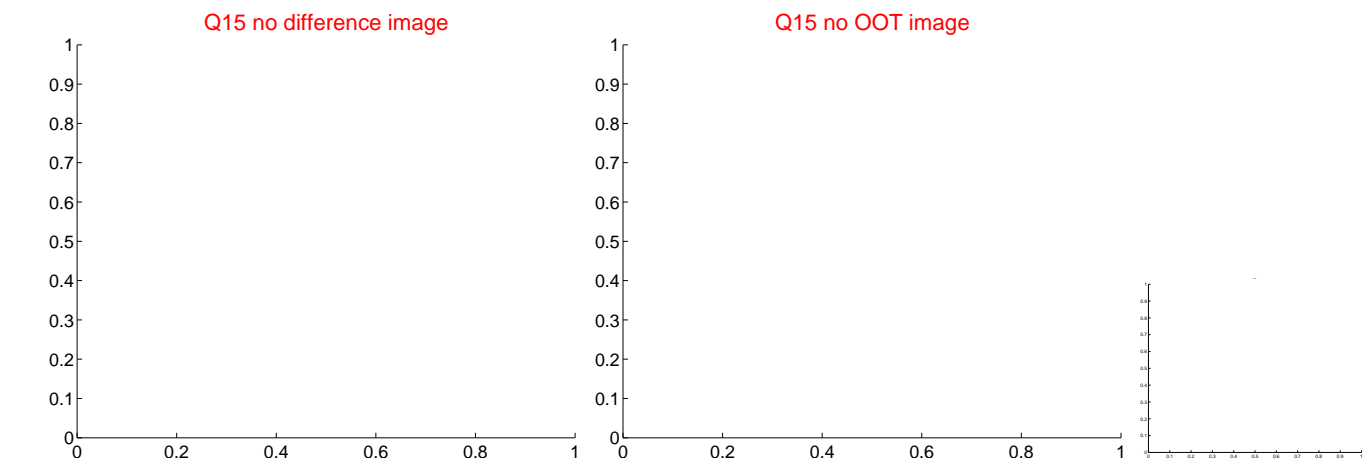
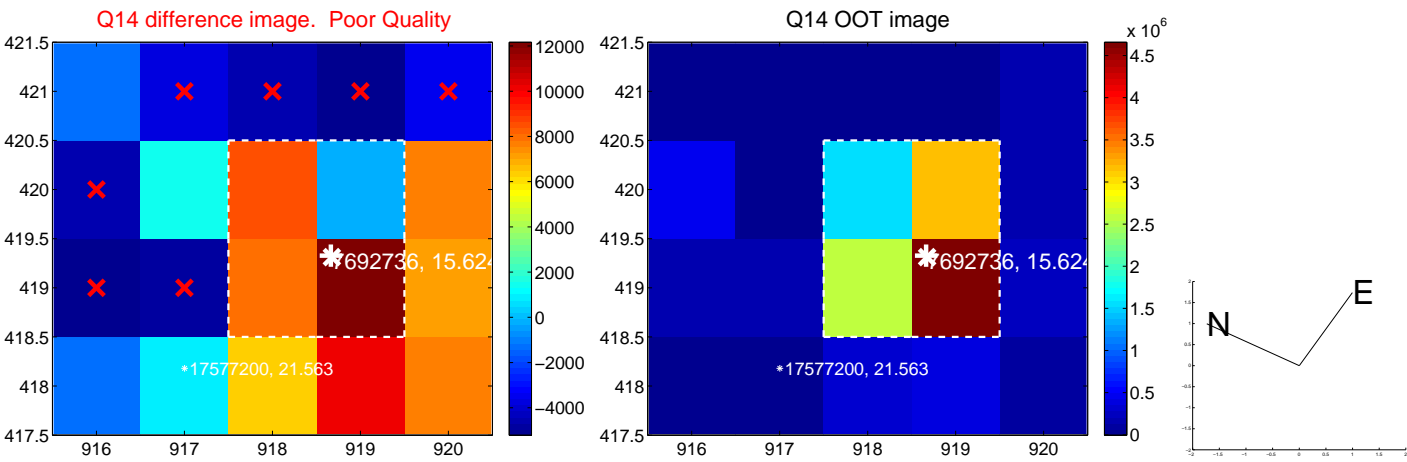
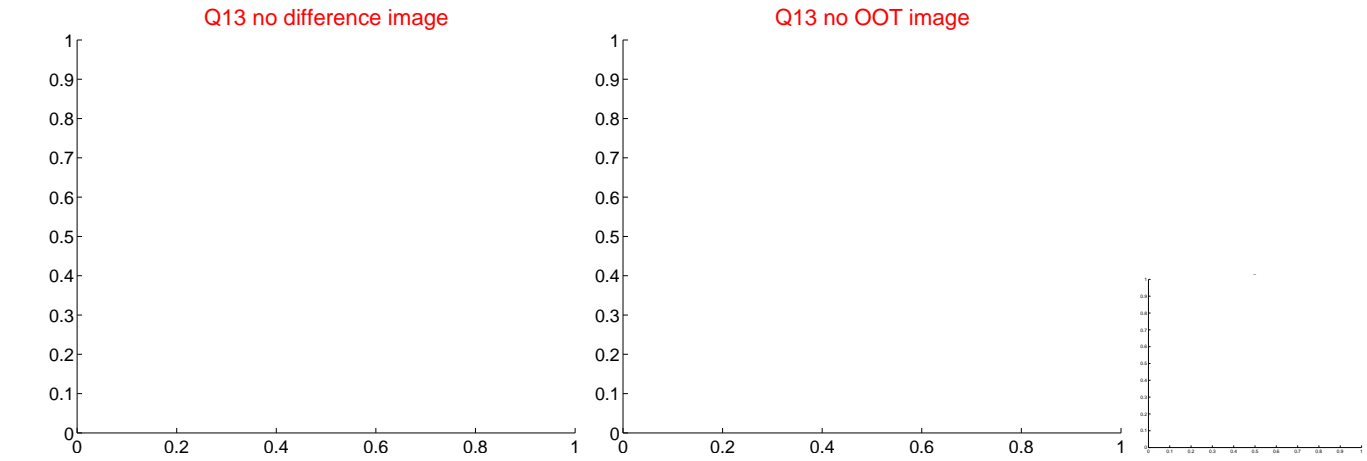
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



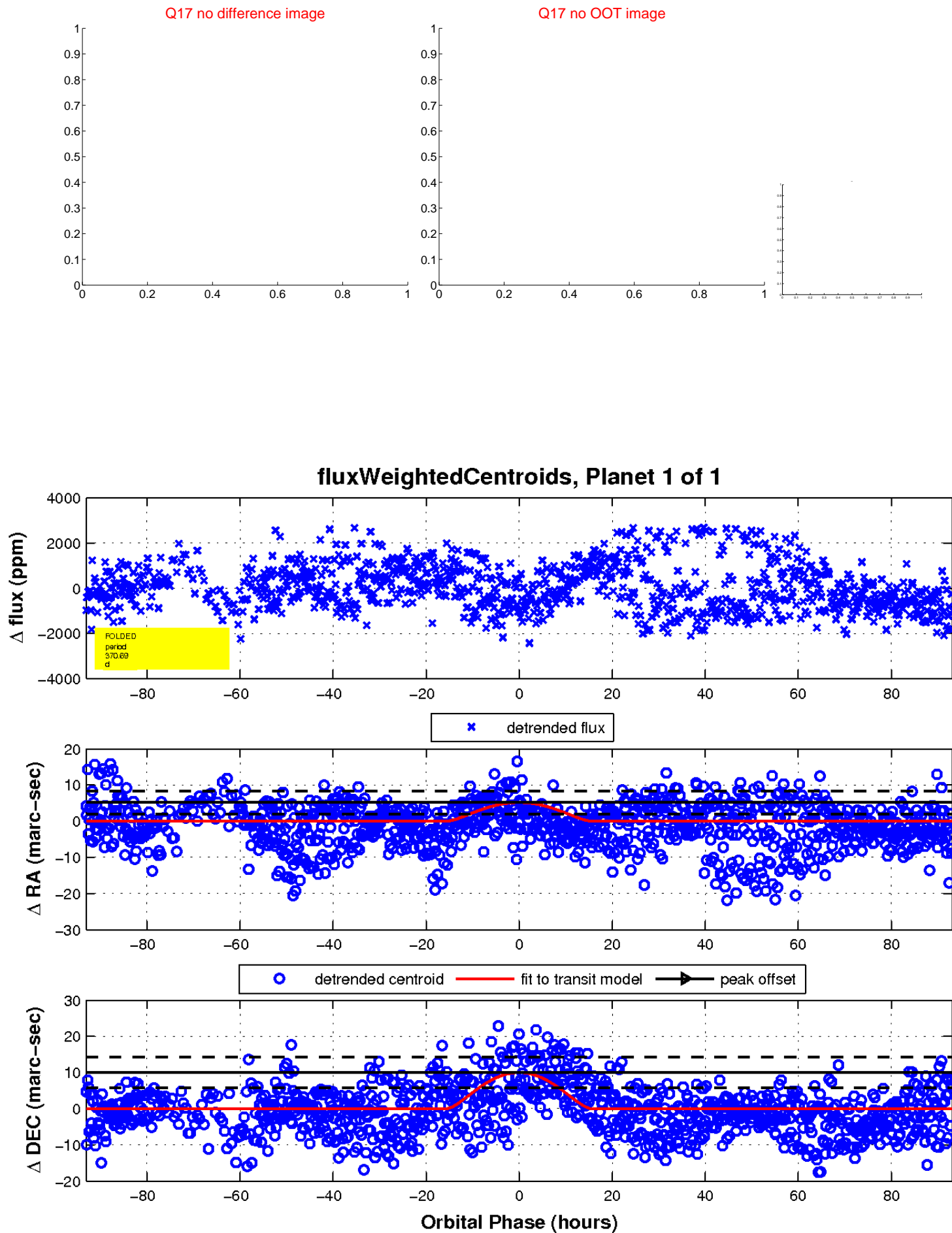
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



UKIRT Image

Declination

