

KIC 005262746

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})
005262746-01	OBS	No	368.987028	151.656754	1376.3	20.584	16.6	15.1	3.01	5060	11.02	5.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005262746-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_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.

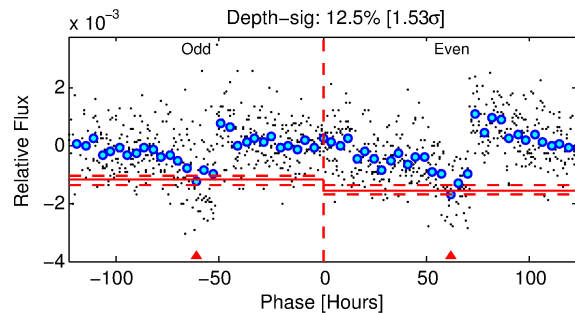
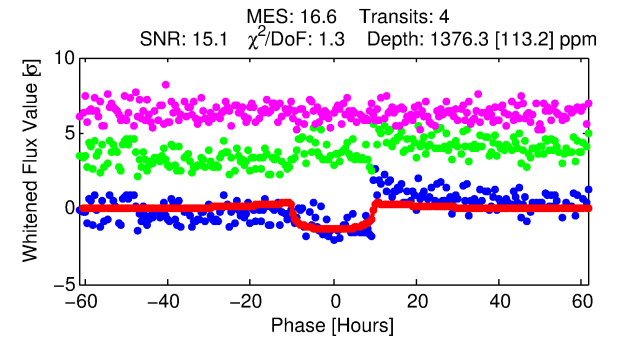
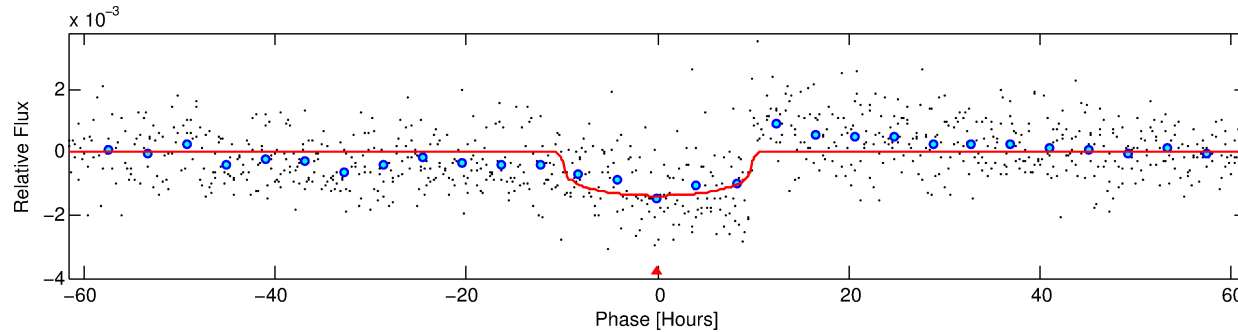
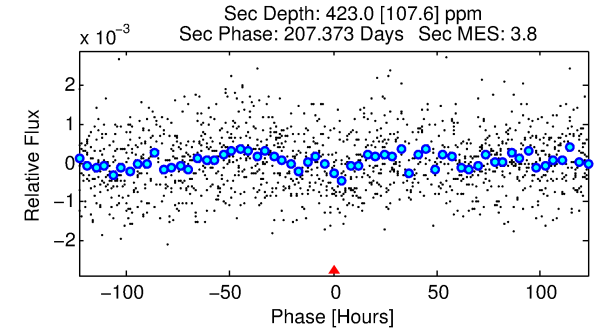
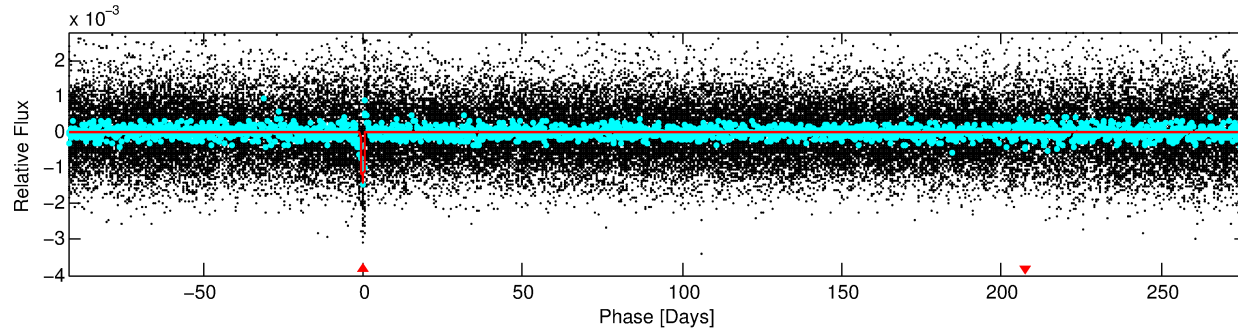
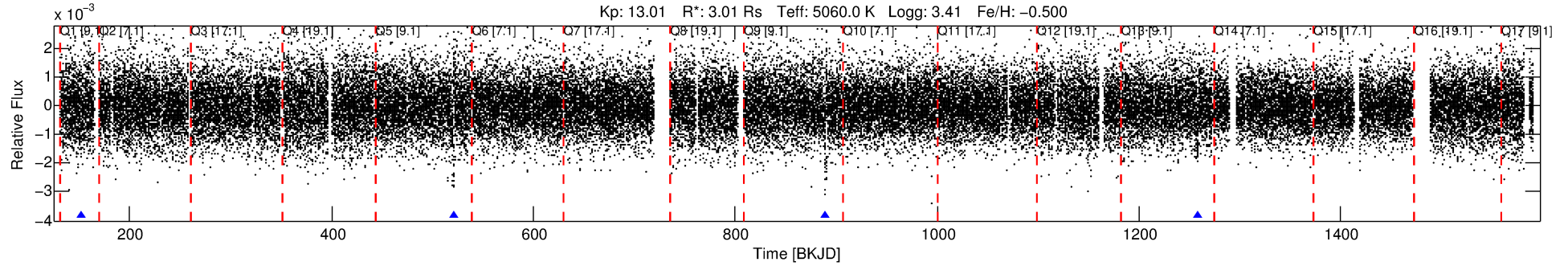
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005262746-01

No Significant Match Found

DV One-Page Summary

KIC: 5262746 Candidate: 1 of 1 Period: 368.987 d



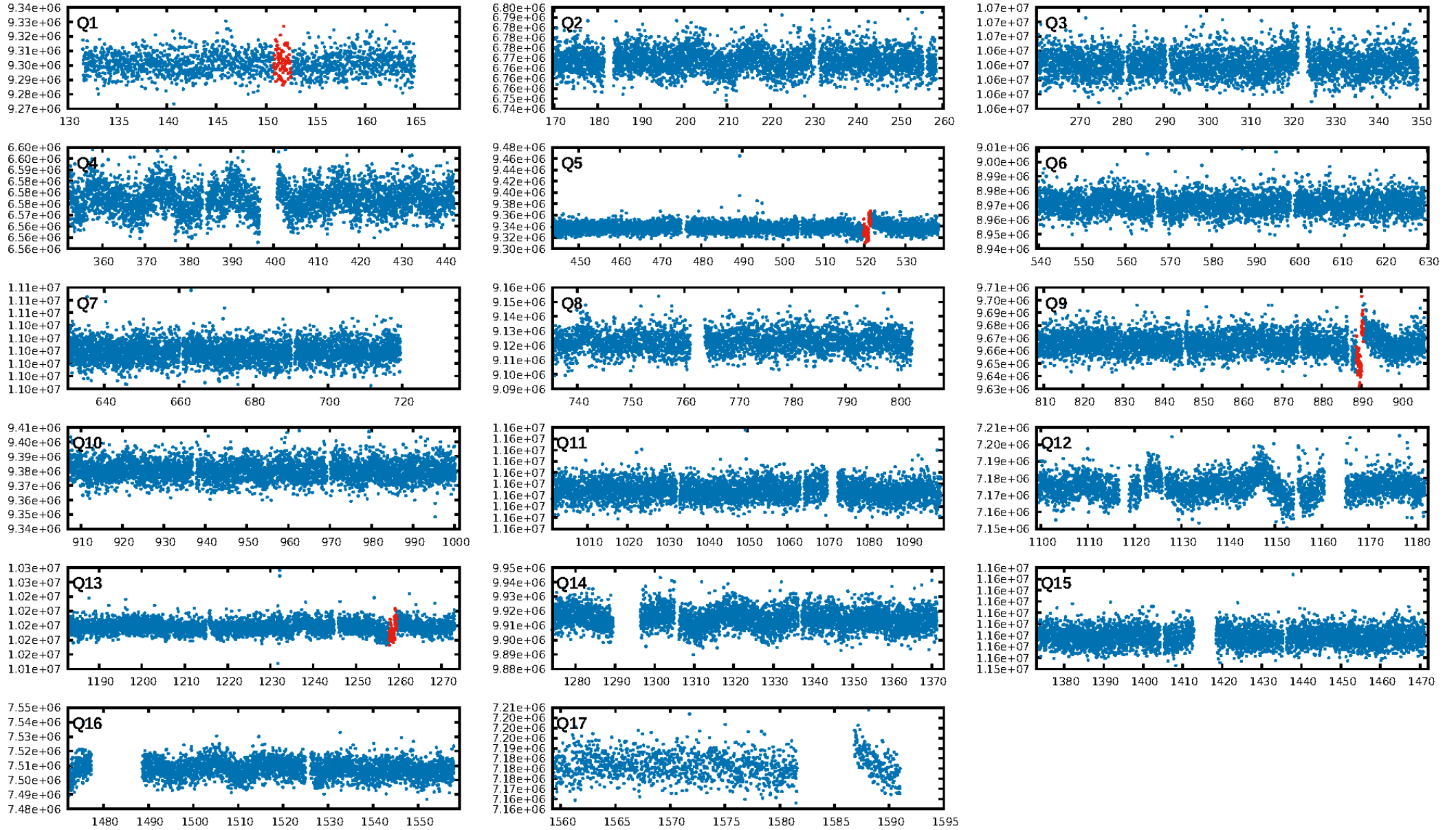
DV Fit Results:

Period = 368.98703 [0.01039] d
Epoch = 151.6568 [0.0199] BKJD
Rp/R* = 0.0335 [0.0128]
a/R* = 136.28 [193.93]
b = 0.28 [4.76]
Seff = 5.84 [3.47]
Teq = 396 [59] K
Rp = 11.02 [7.34] Re
a = 0.9549 [0.4087] AU
Ag = 1747.10 [1735.94] [1.01σ]
Teffp = 3963 [808] K [4.40σ]

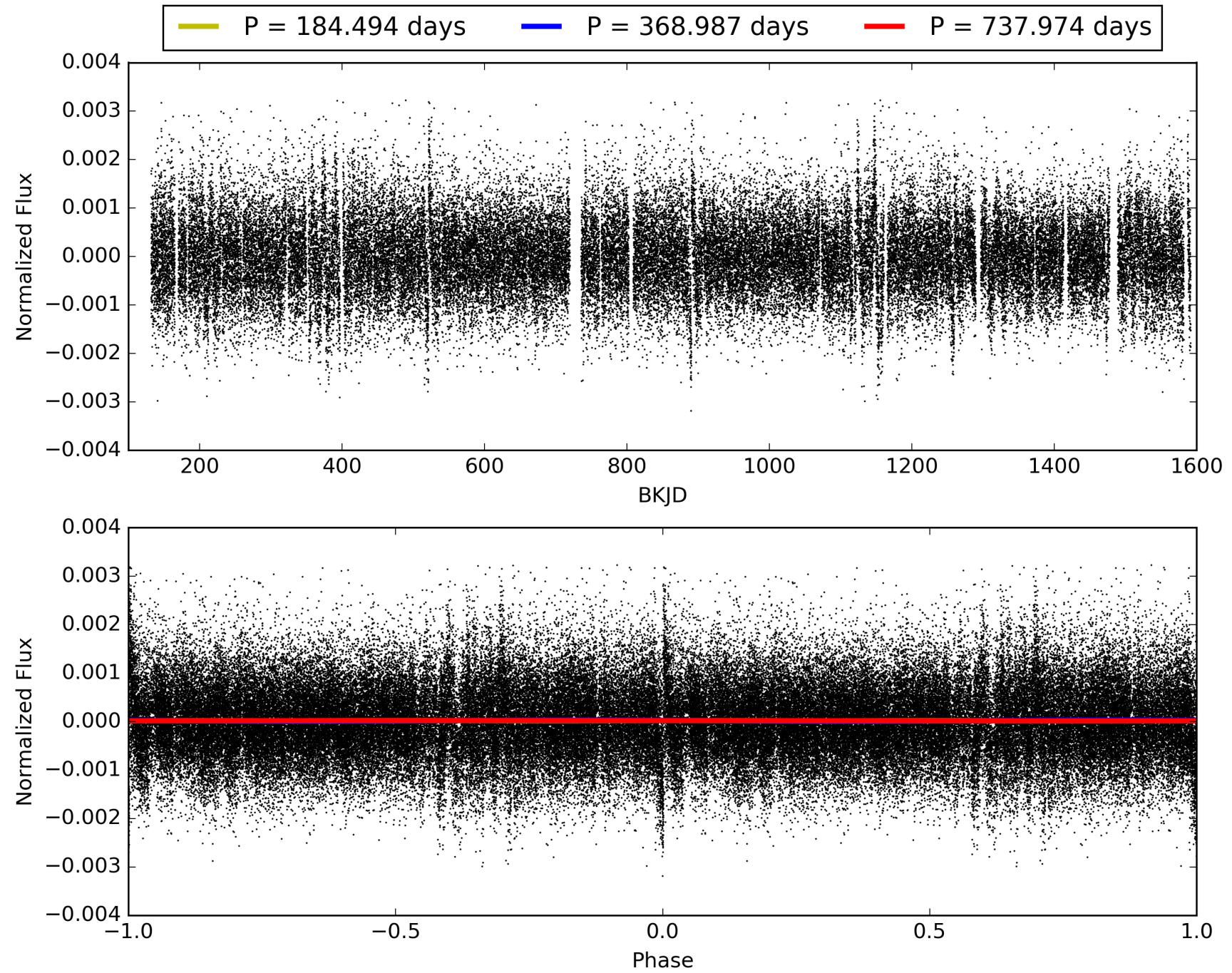
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 70.9%
Bootstrap-pfa: 2.30e-47
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.6305
Centroid-sig: 48.5%
Centroid-so: 2.717 arcsec [3.32σ]
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 [4/4]

TCE 005262746-01, PDC Light Curves

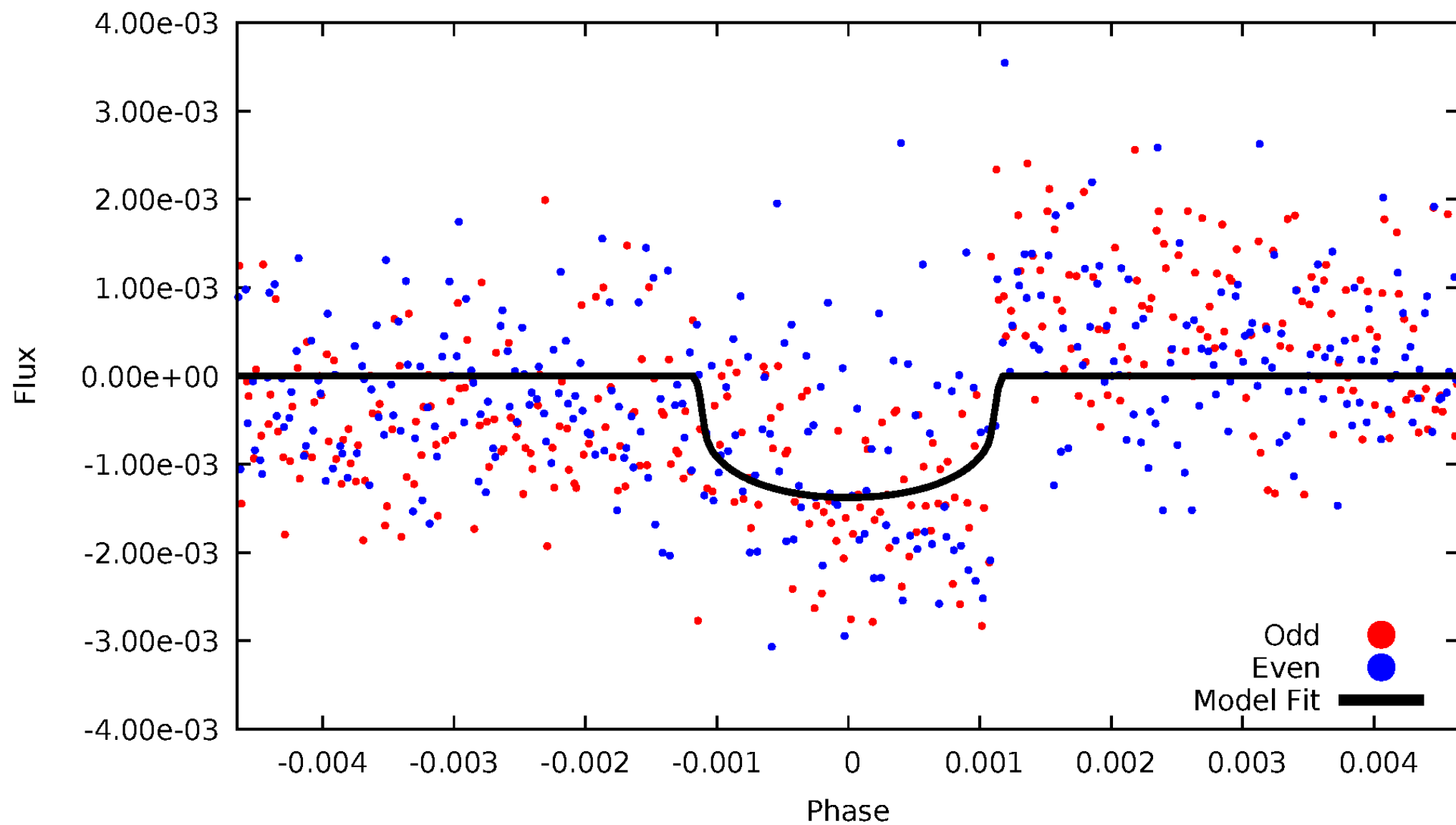


TCE 005262746-01



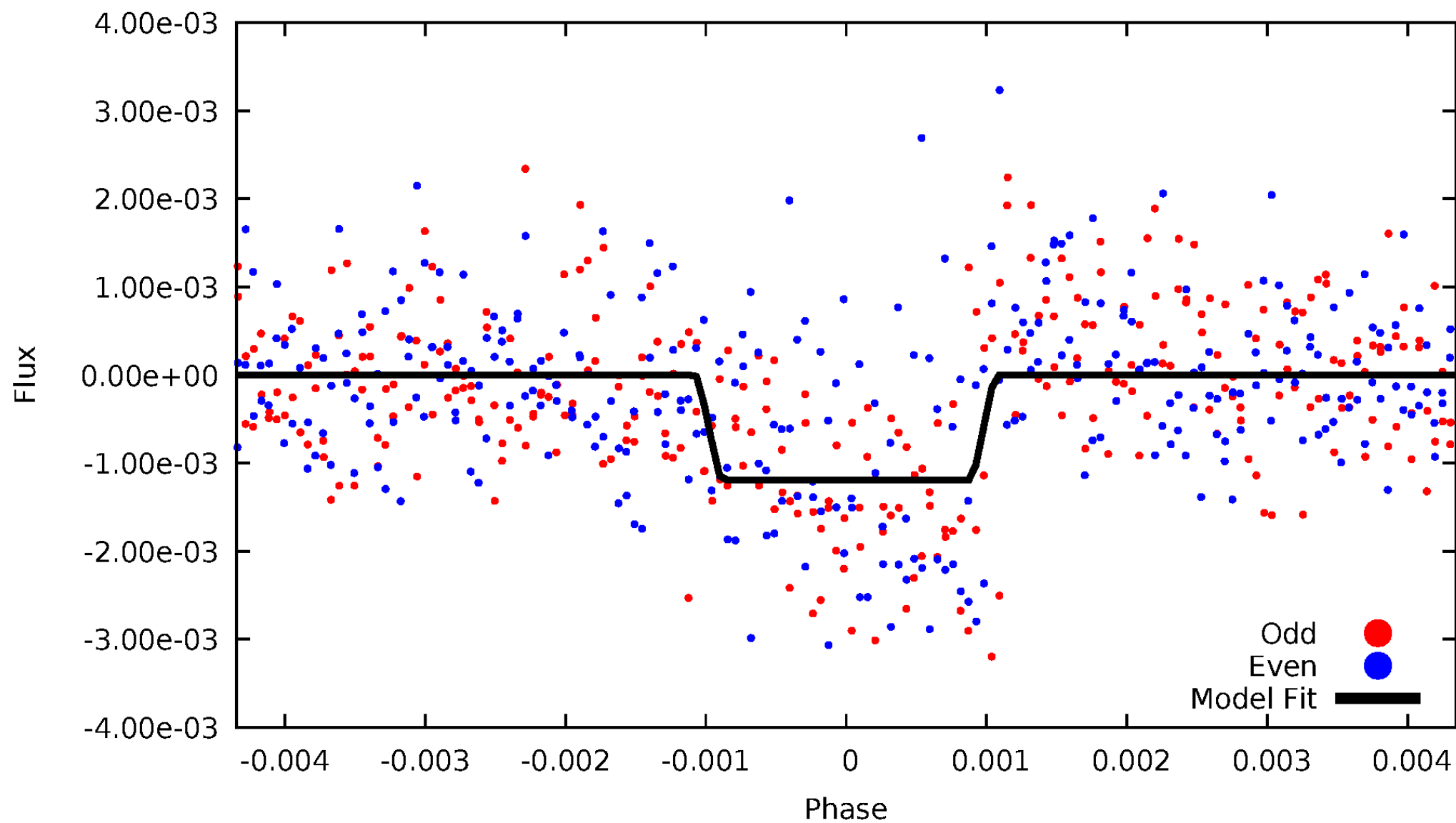
DV Odd/Even

TCE 005262746-01



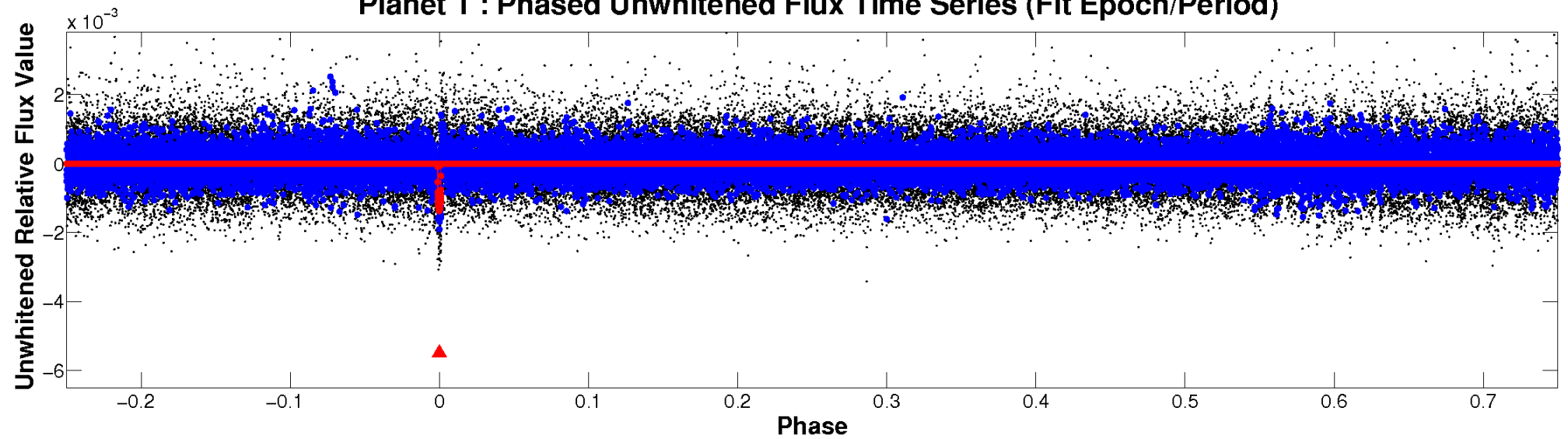
ALT Odd/Even

TCE 005262746-01

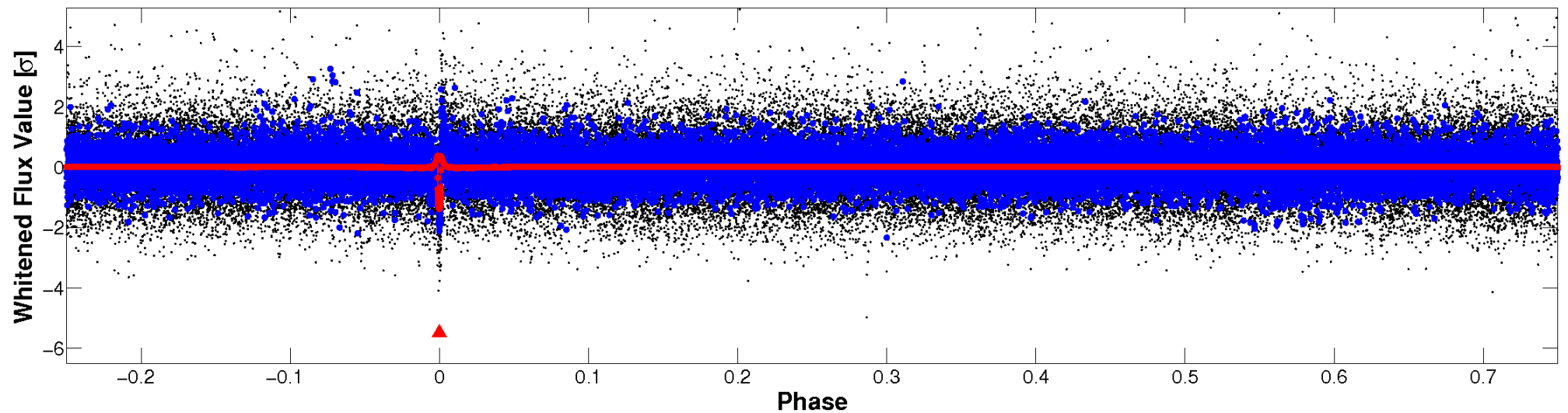


Non-Whitened Vs. Whitened Light Curve

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



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



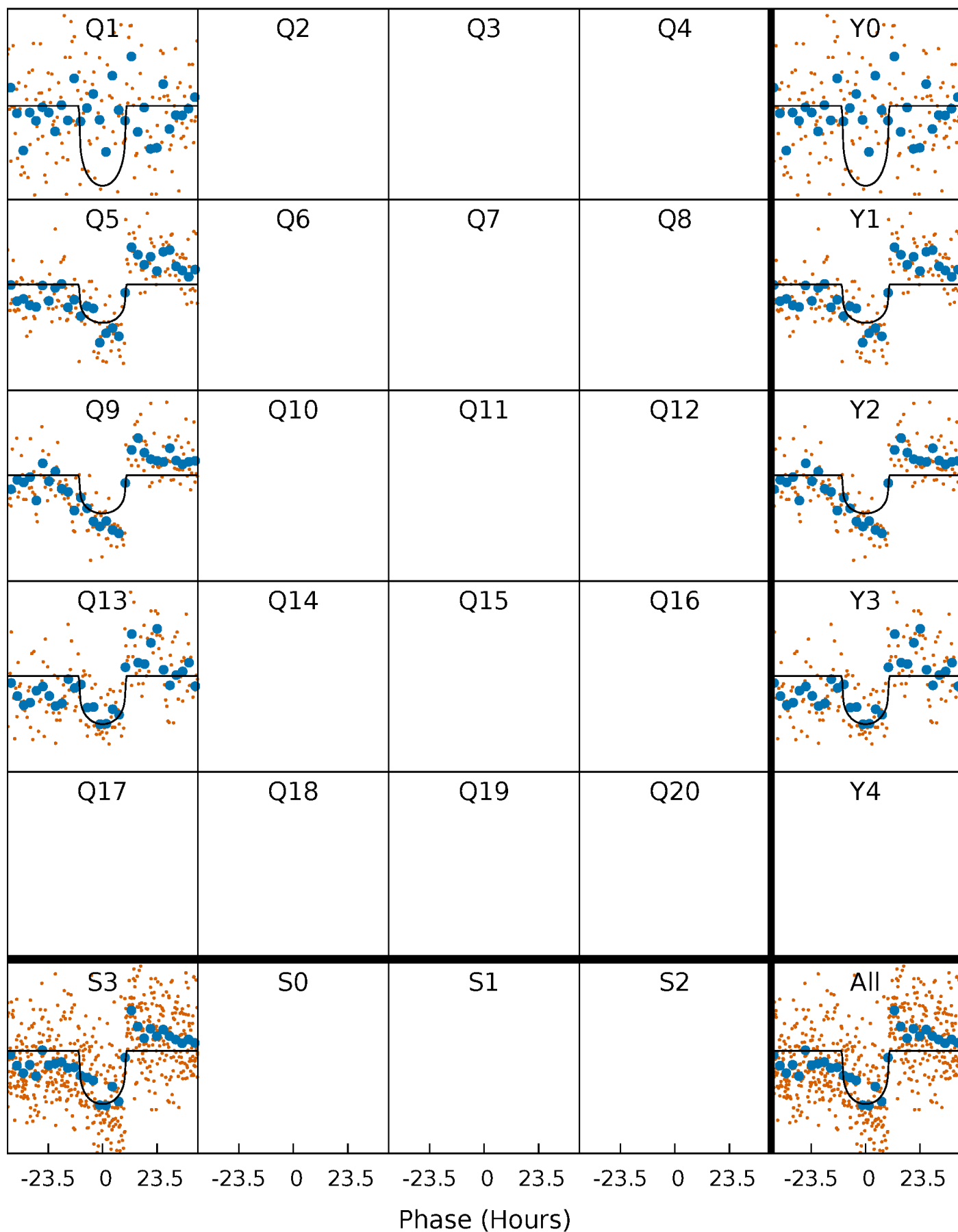
PDC Quarter-Phased Transit Curves

TCE 005262746-01 P=368.987028 Days $T_0=151.656754$ (BKJD)



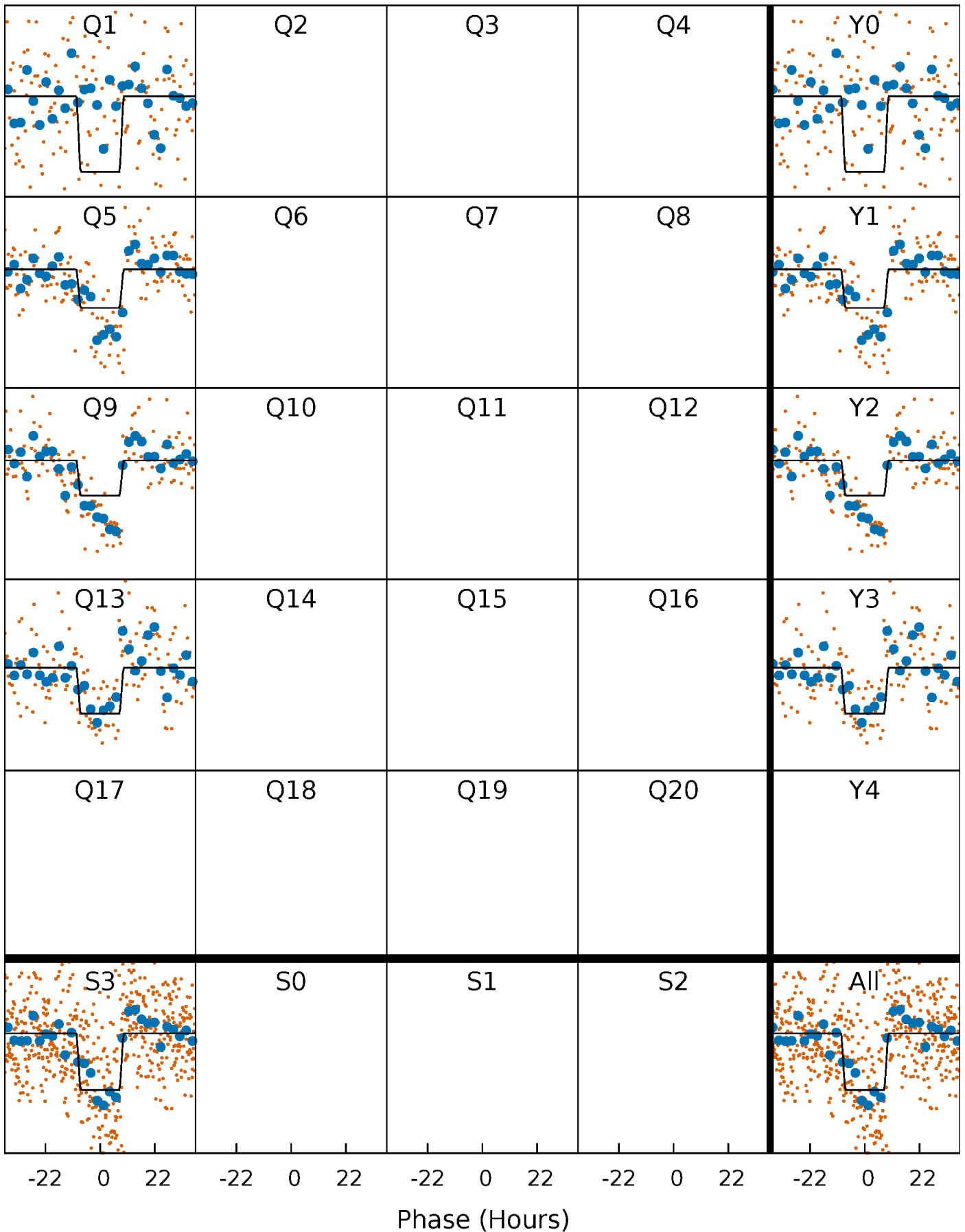
DV Quarter-Phased Transit Curves

TCE 005262746-01 $P=368.987028$ Days $T_0=151.656754$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

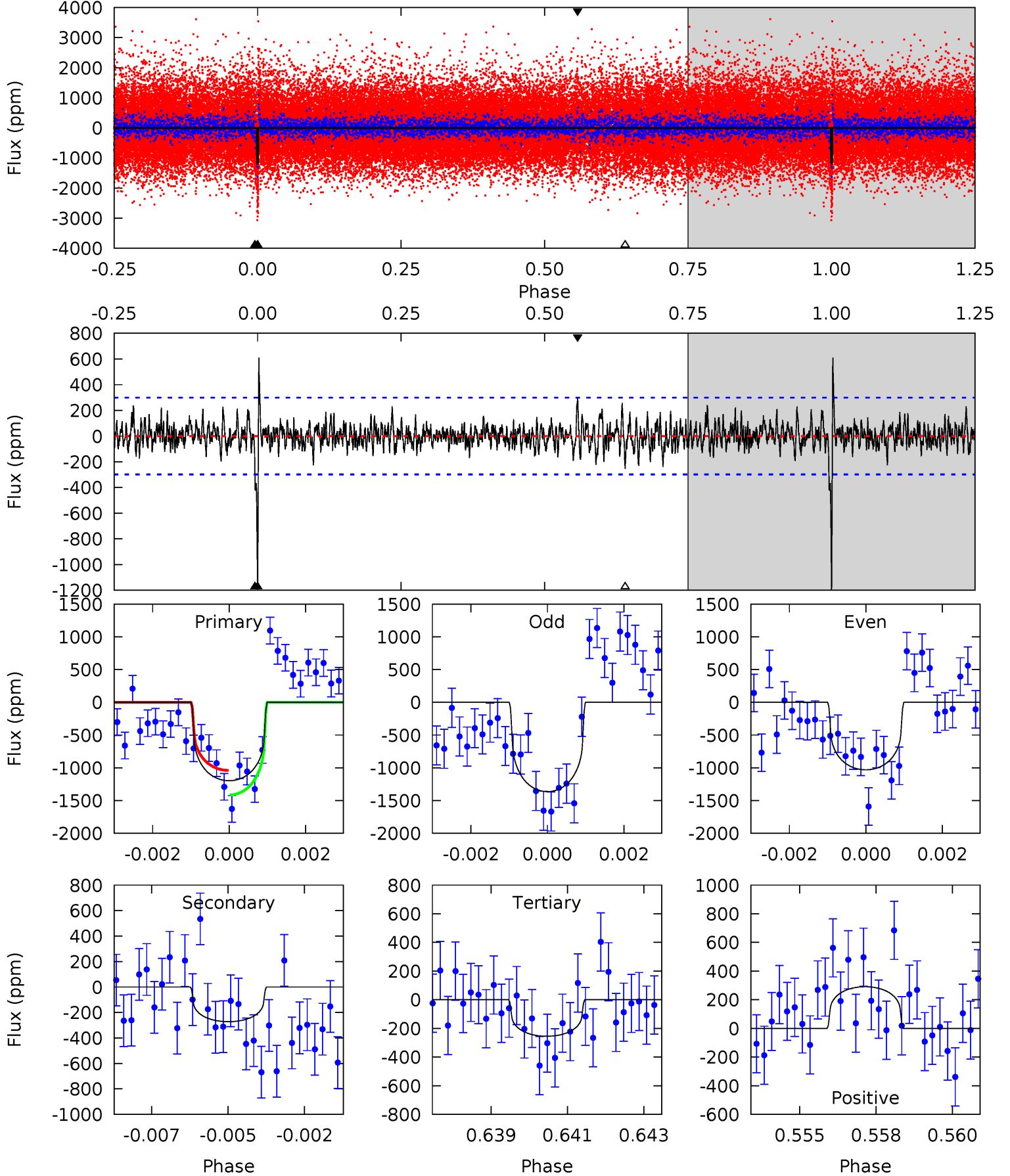
TCE 005262746-01 P=369.030094 Days $T_0=151.606323$ (BKJD)



DV Model-Shift Uniqueness Test

005262746-01, P = 368.987028 Days, E = 151.656754 Days

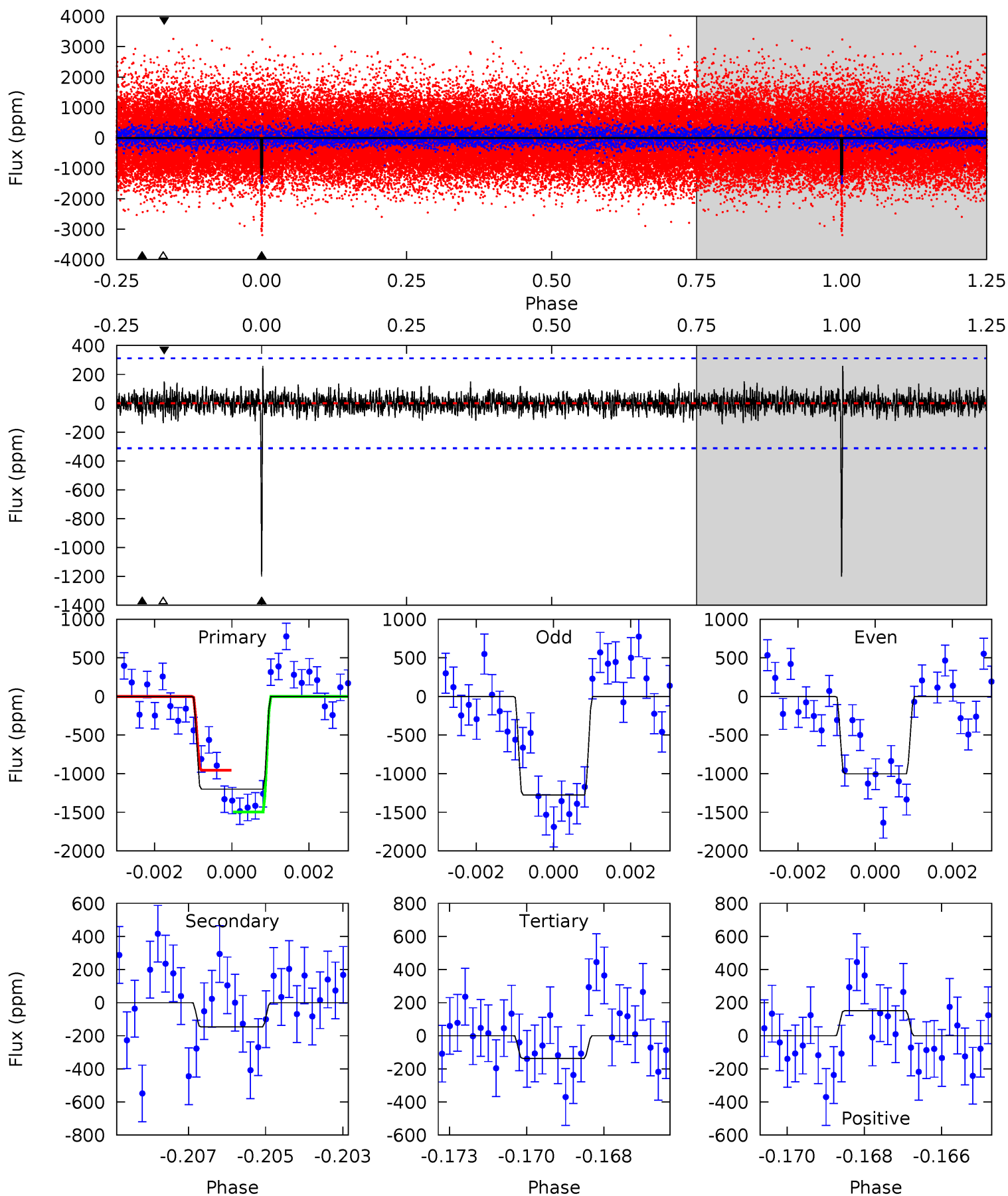
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.2	4.82	4.51	5.16	5.30	3.04	1.33	16.7	16.1	0.31	-0.33	2.95	0.87	0.34	3.30



Alt Model-Shift Uniqueness Test

005262746-01, P = 369.030094 Days, E = 151.606323 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.5	2.50	2.33	2.57	5.31	3.07	0.70	18.2	17.9	0.17	-0.08	2.35	0.90	0.18	4.58



Stellar Parameters For KIC 005262746

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5060^{+153}_{-102}	$3.411^{+0.295}_{-0.295}$	$-0.500^{+0.300}_{-0.250}$	$3.012^{+1.641}_{-0.884}$	$0.852^{+0.314}_{-0.135}$	$0.044^{+0.085}_{-0.031}$
	+3%/-2%	+9%/-9%	+60%/-50%	+54%/-29%	+37%/-16%	+193%/-70%
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 005262746-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-272 ± 56	$11.19^{+5.28}_{-4.44}$	554^{+65}_{-55}	3855^{+724}_{-398}	1131^{+1933}_{-628}
Alt.	-146 ± 59	$11.20^{+5.76}_{-4.56}$	553^{+73}_{-53}	3463^{+627}_{-404}	567^{+1206}_{-343}

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

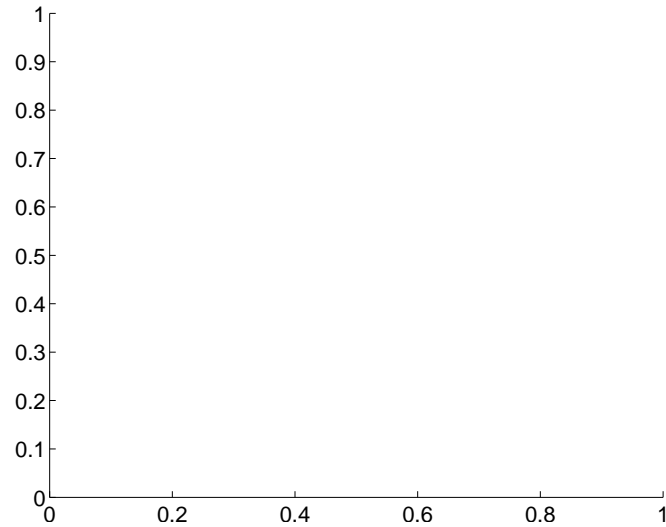
Supplemental centroid analysis for 005262746-01. Kepler magnitude: 13.01. Transit SNR 15.10

There are 0 quarters with good PRF difference image offsets

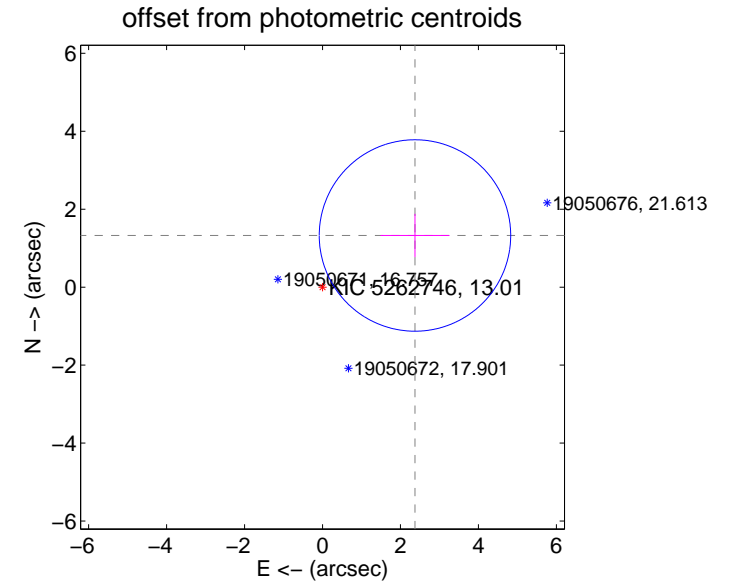
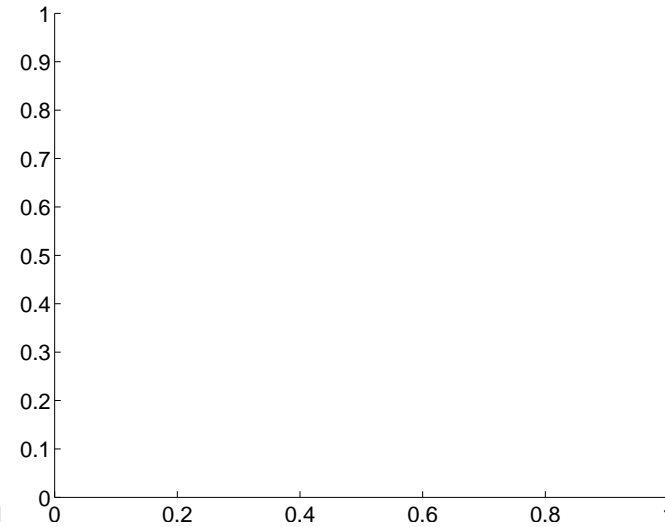
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	2.72 ± 0.82	3.32	-2.37 ± 0.88	1.33 ± 0.55

There is no PRF-fit offset from OOT-fit

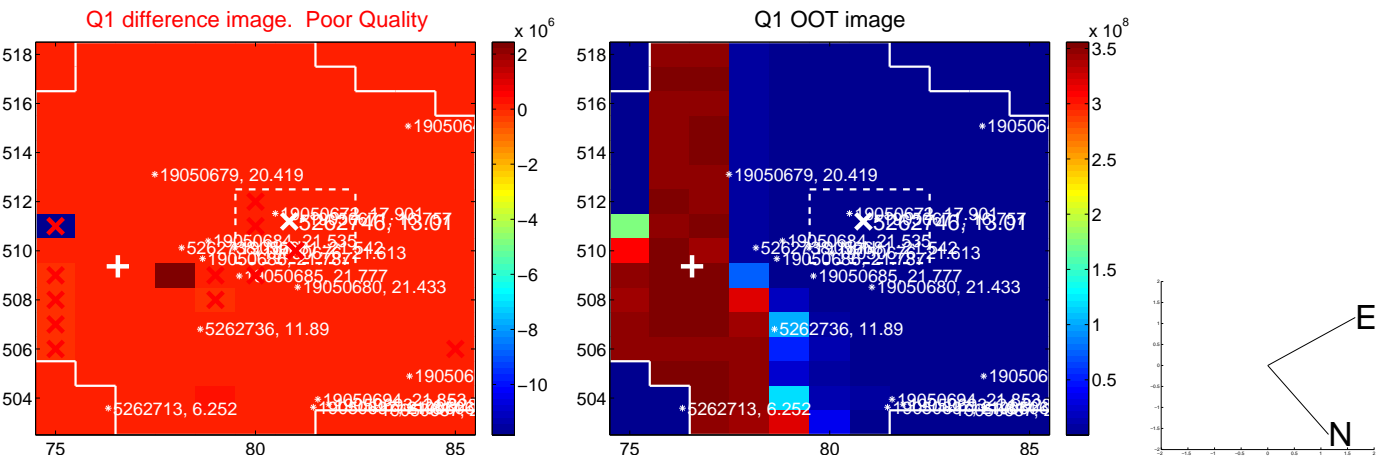


There is no PRF-fit offset from KIC

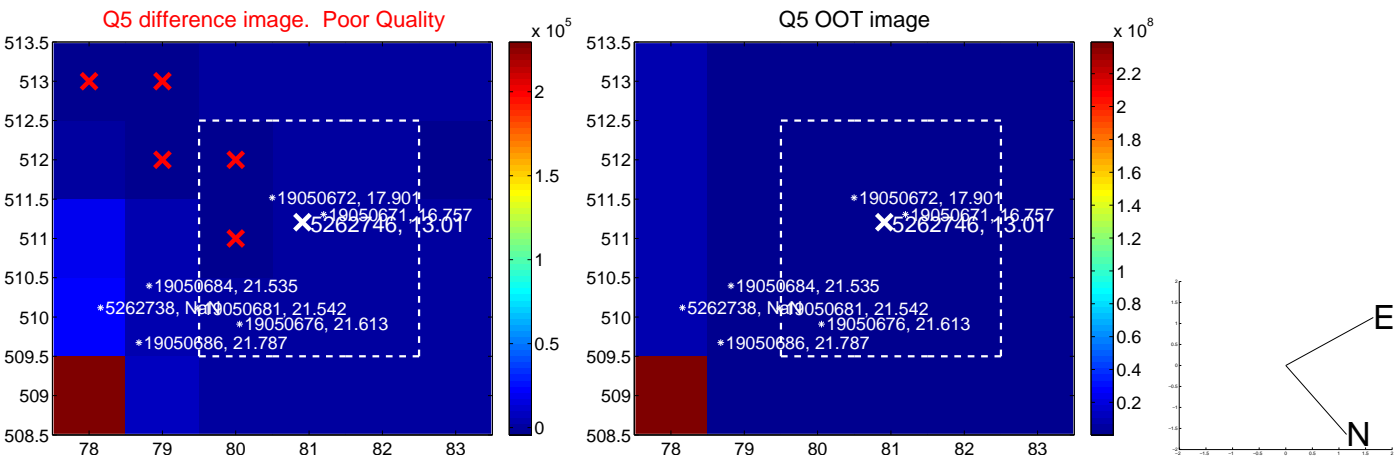


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

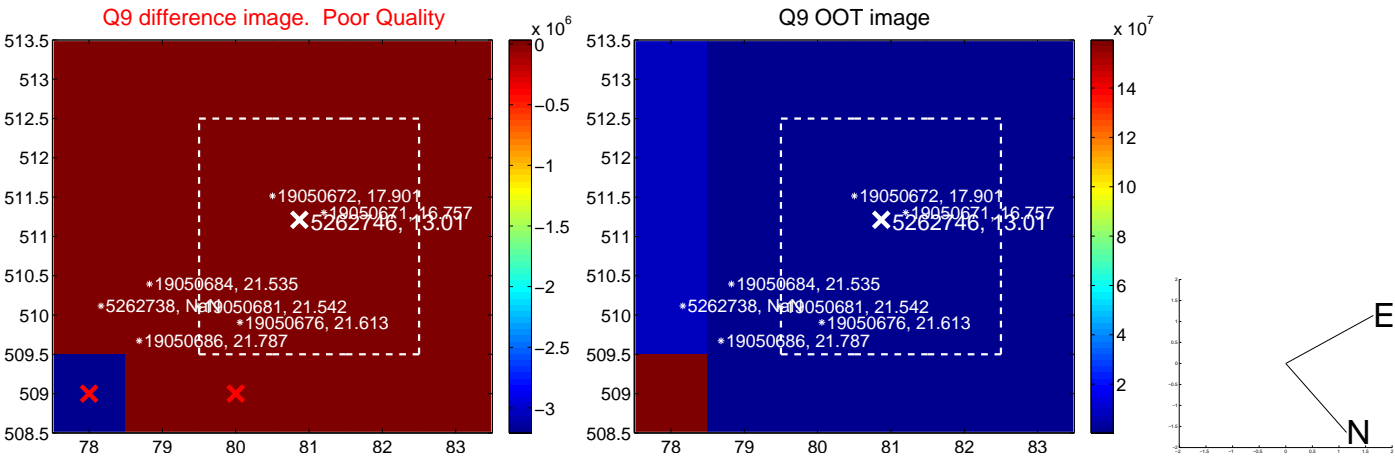
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



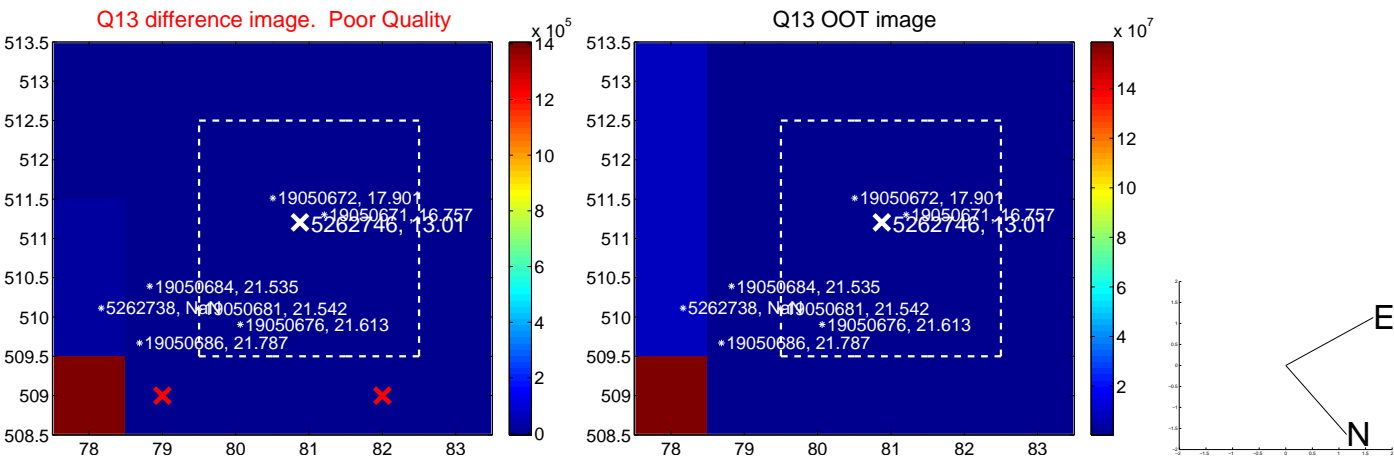
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



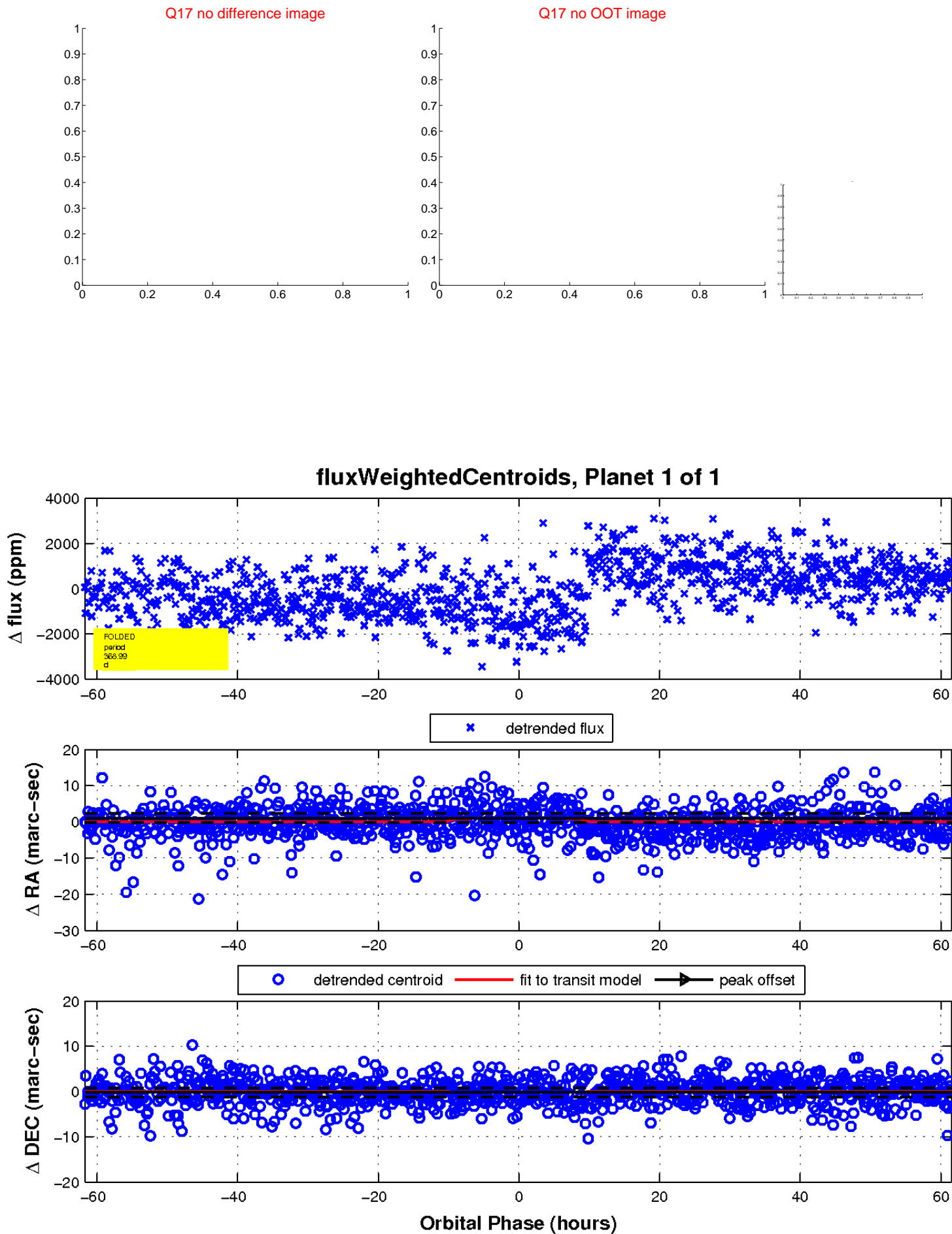
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



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



UKIRT Image

Declination

