

KIC 006507265

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})
006507265-01	OBS	No	446.708177	561.705570	672.7	15.149	8.6	7.5	0.89	5691	2.34	0.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006507265-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL_TRACKER—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

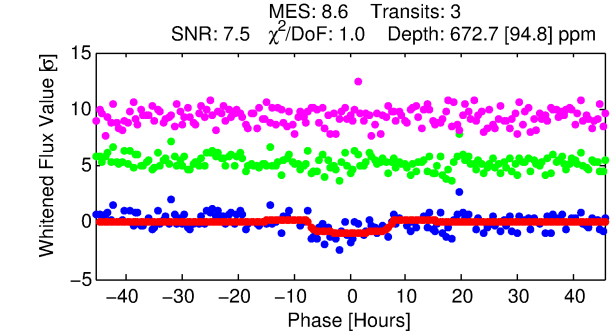
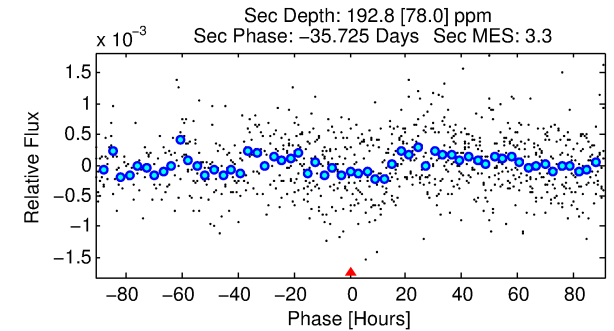
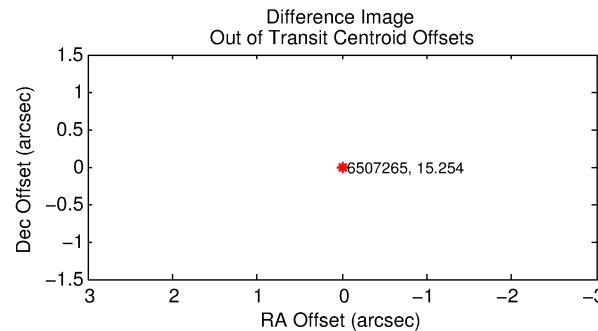
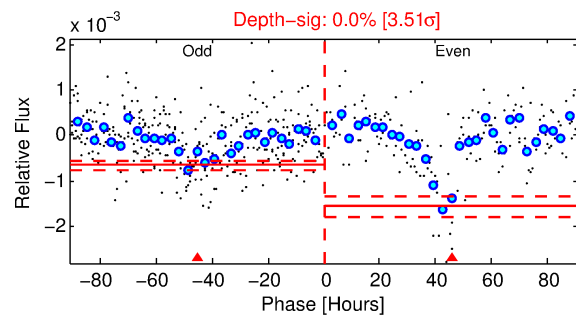
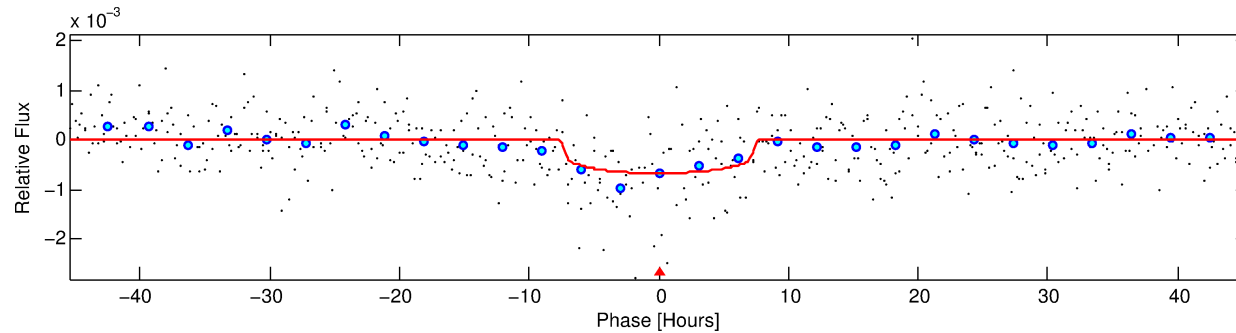
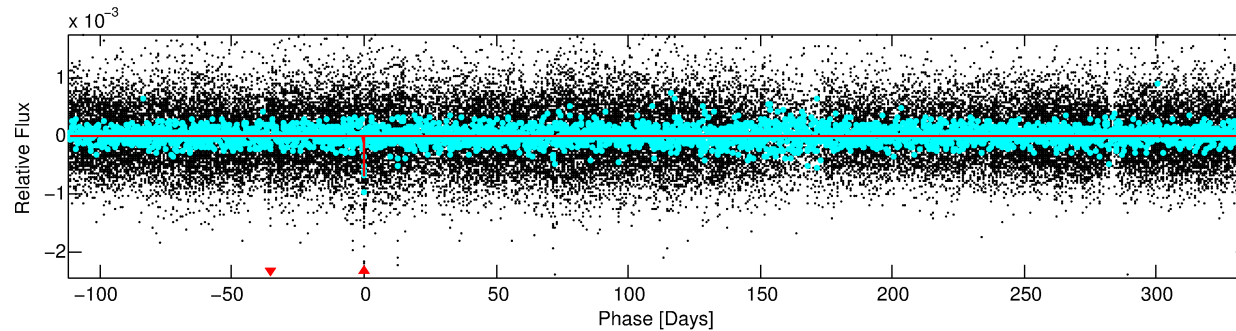
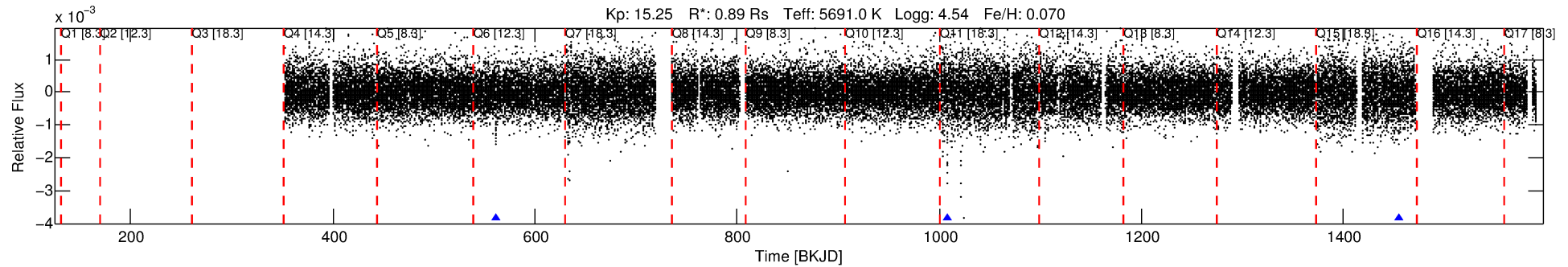
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507265-01

No Significant Match Found

DV One-Page Summary

KIC: 6507265 Candidate: 1 of 1 Period: 446.708 d



DV Fit Results:

Period = 446.70818 [0.01551] d
Epoch = 561.7056 [0.0173] BKJD
Rp/R* = 0.0242 [0.0189]
a/R* = 204.13 [668.24]
b = 0.48 [5.34]
Seff = 0.56 [0.20]
Teq = 221 [20] K
Rp = 2.34 [1.93] Re
a = 1.1455 [0.2550] AU
Ag = 25470.98 [41995.11] [0.61 σ]
Teffp = 4315 [1750] K [2.34 σ]

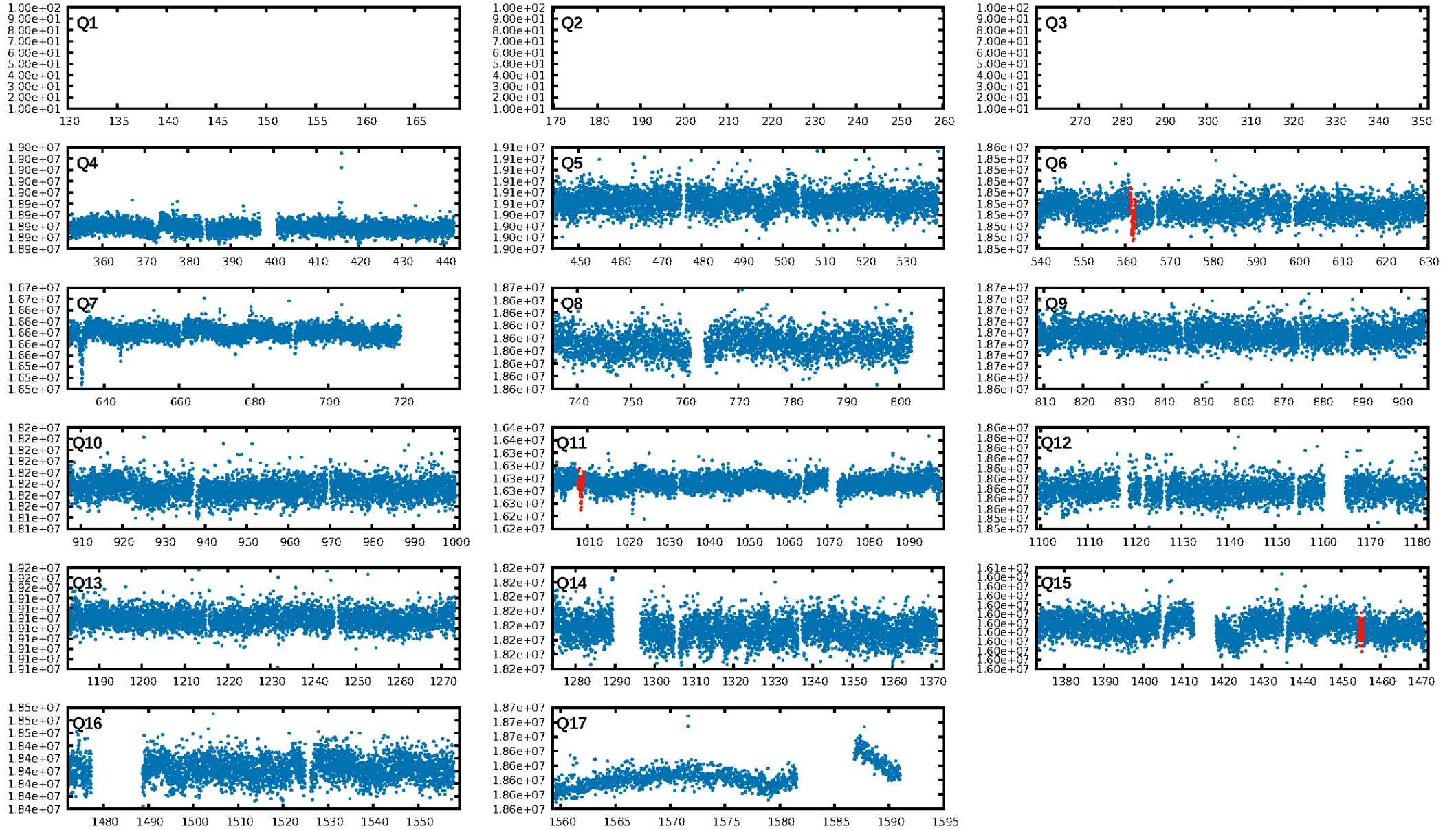
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 29.5%
ModelChiSquareGof-sig: 95.0%
Bootstrap-pfa: 6.96e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.1233
Centroid-sig: 44.1%
Centroid-so: 4.079 arcsec [11.22 σ]
OotOffset-rm: N/A
KicOffset-rm: 3.314 arcsec [7.64 σ]
OotOffset-st: 0/0/0 [0]
KicOffset-st: 1/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [2/2]

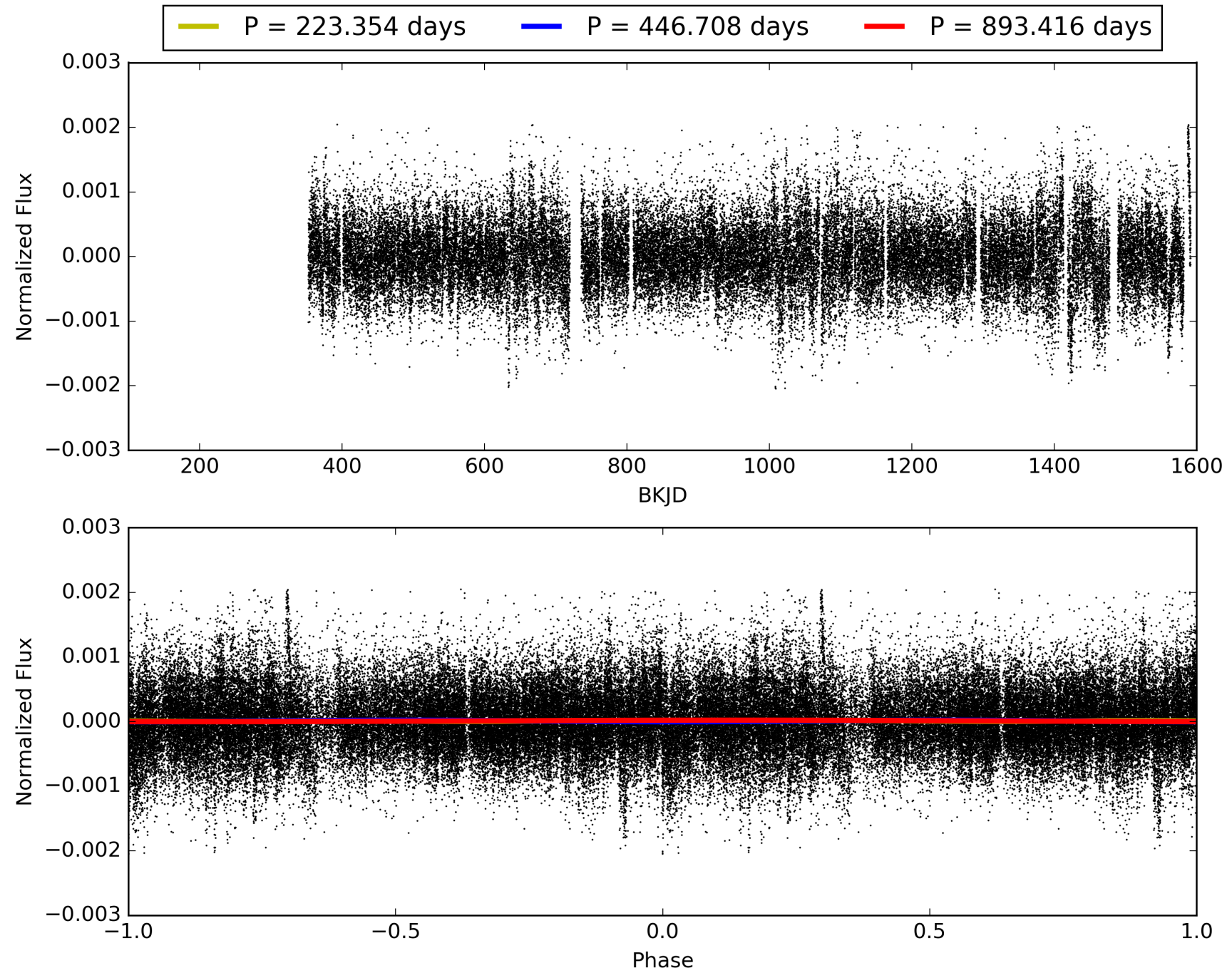
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 16:26:00 Z

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

TCE 006507265-01, PDC Light Curves

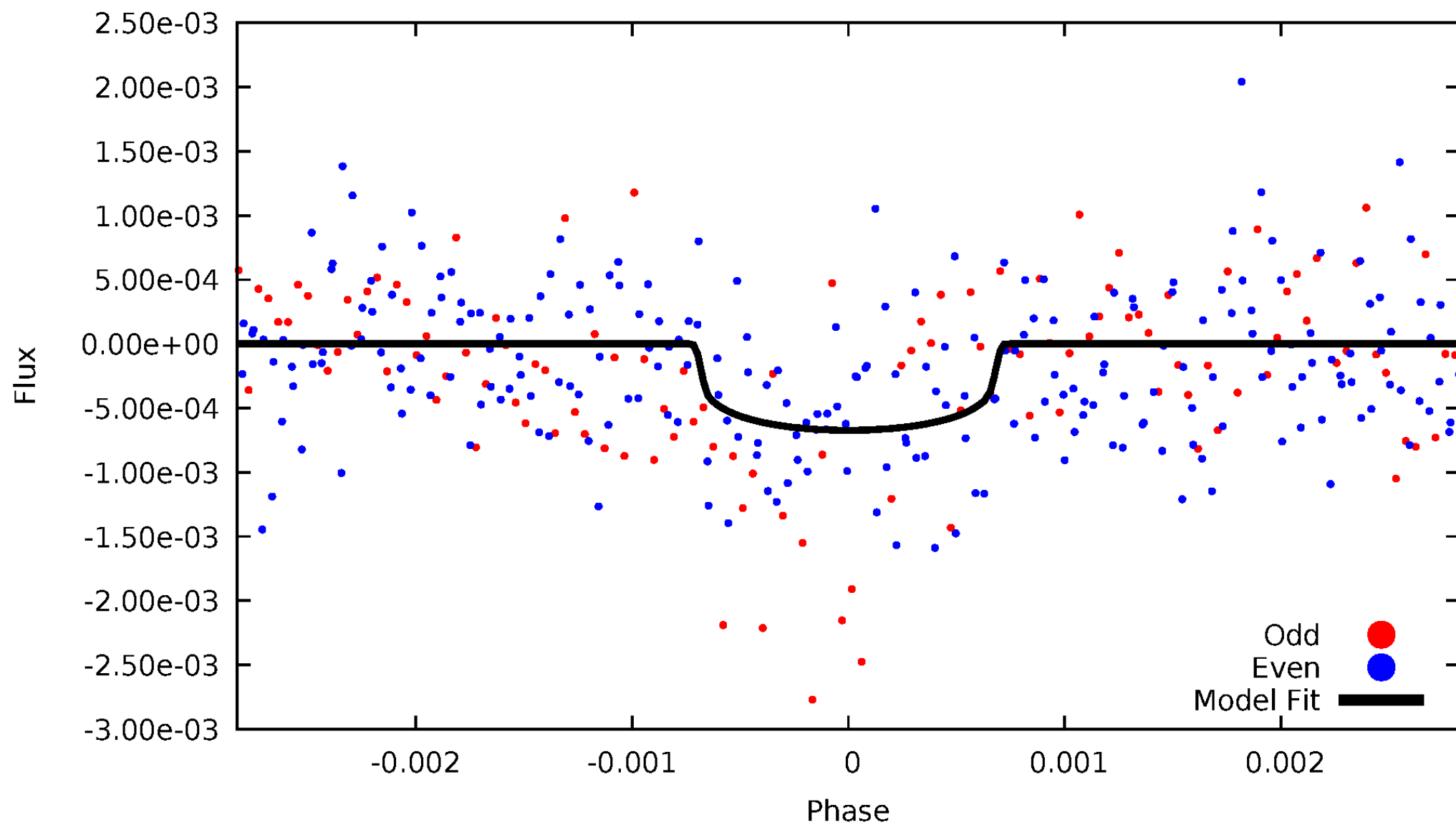


TCE 006507265-01



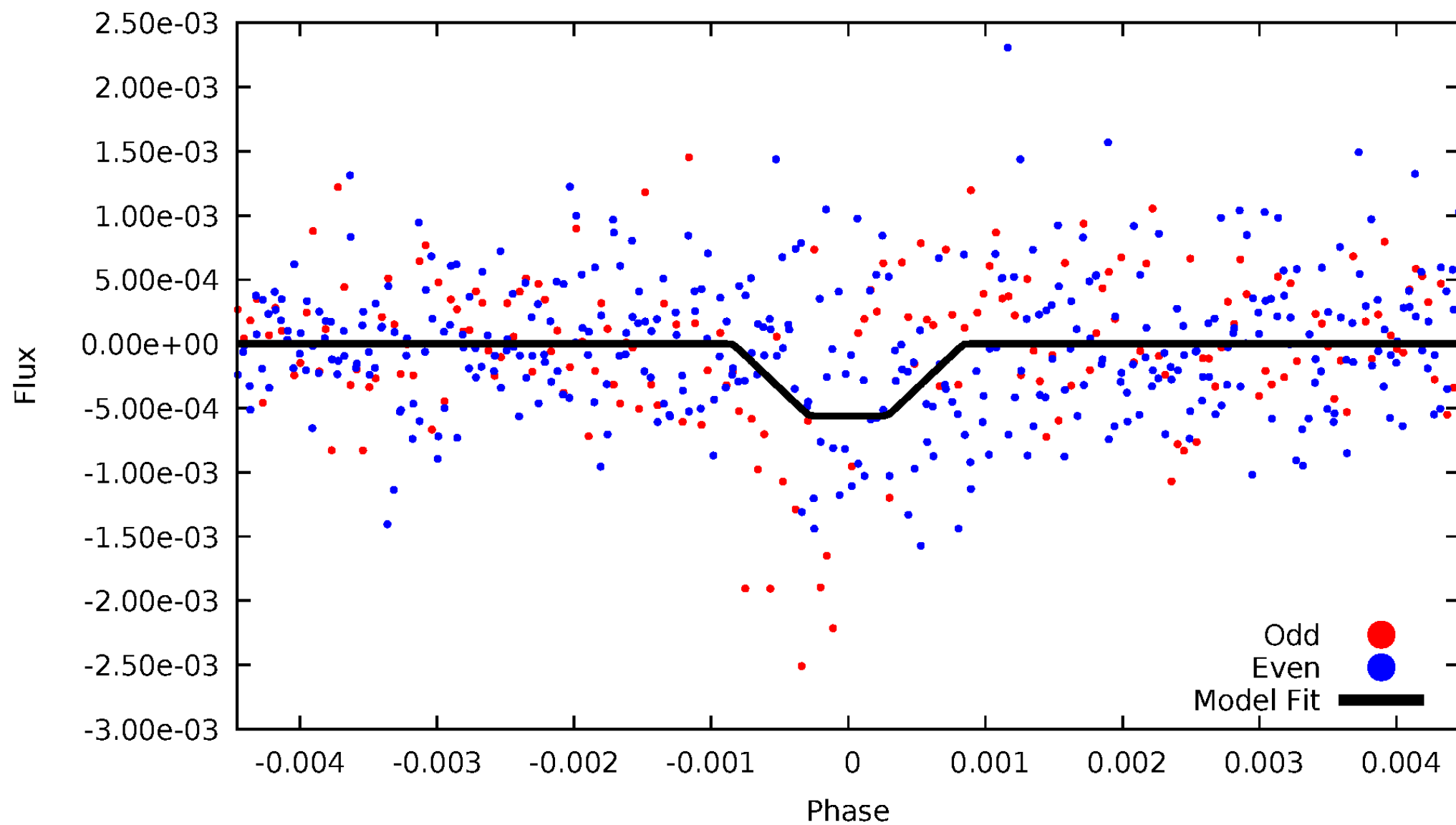
DV Odd/Even

TCE 006507265-01



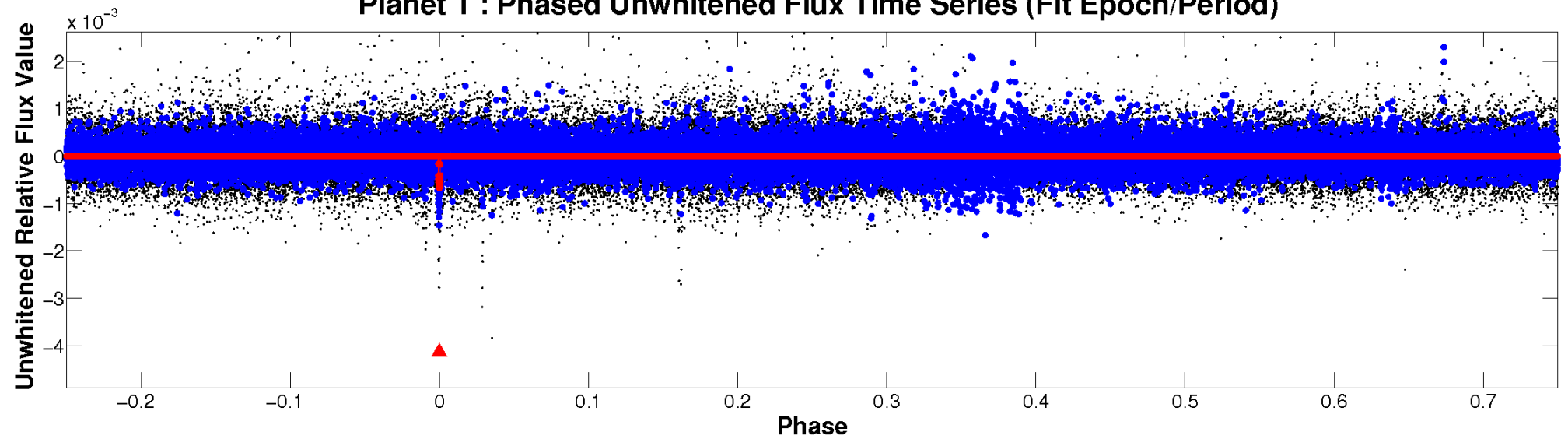
ALT Odd/Even

TCE 006507265-01

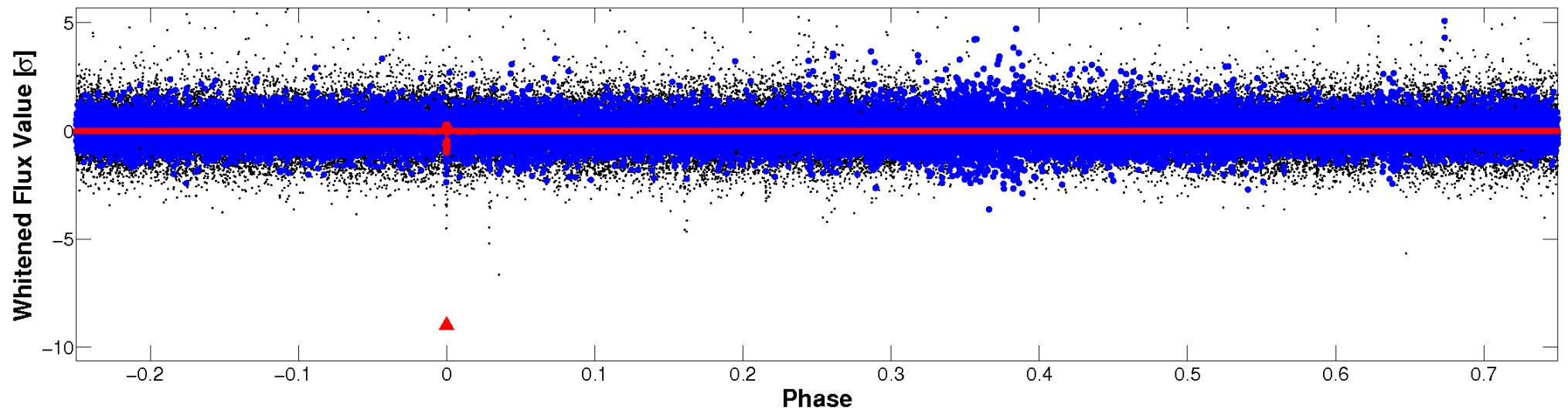


Non-Whitened Vs. Whitened Light Curve

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

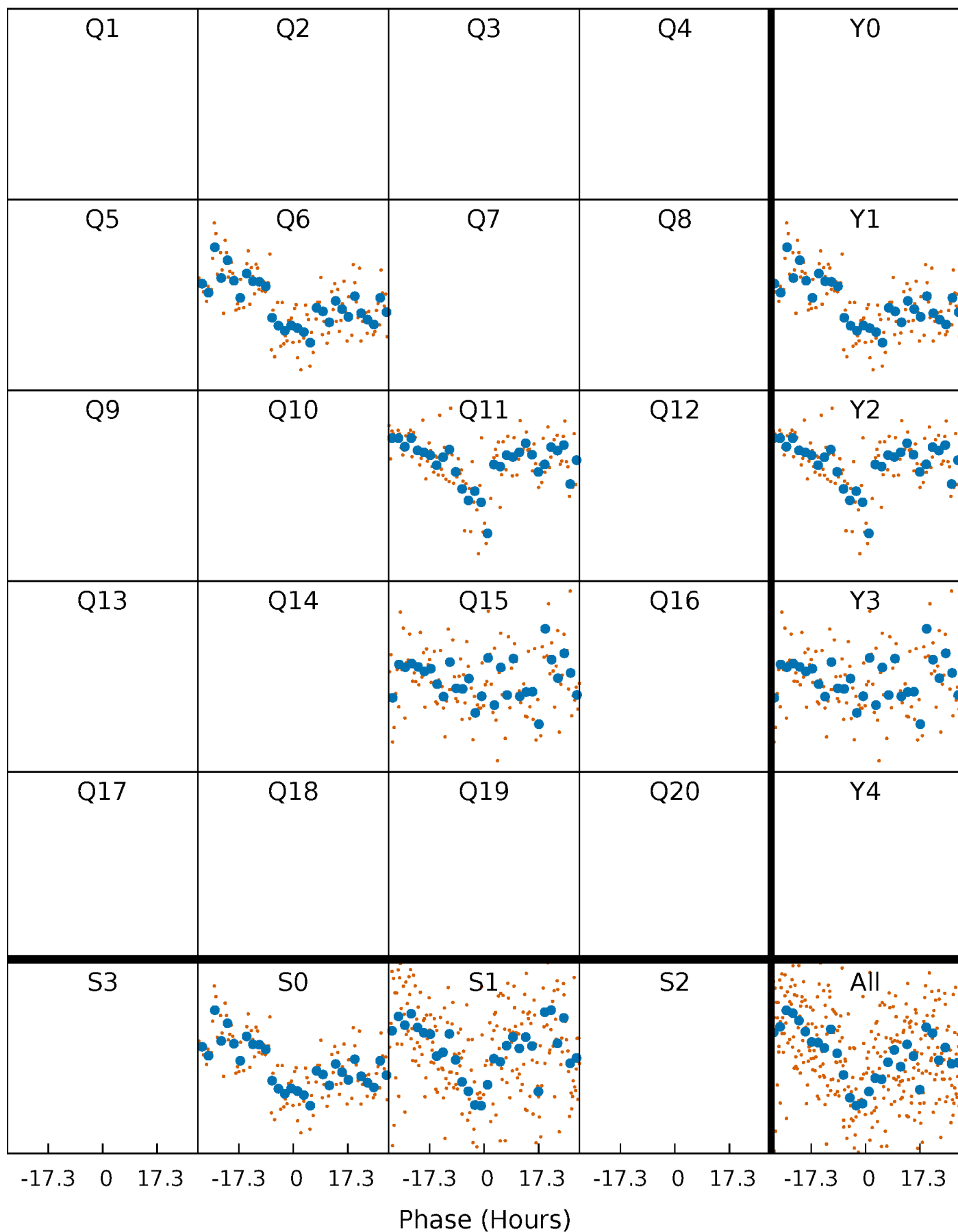


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



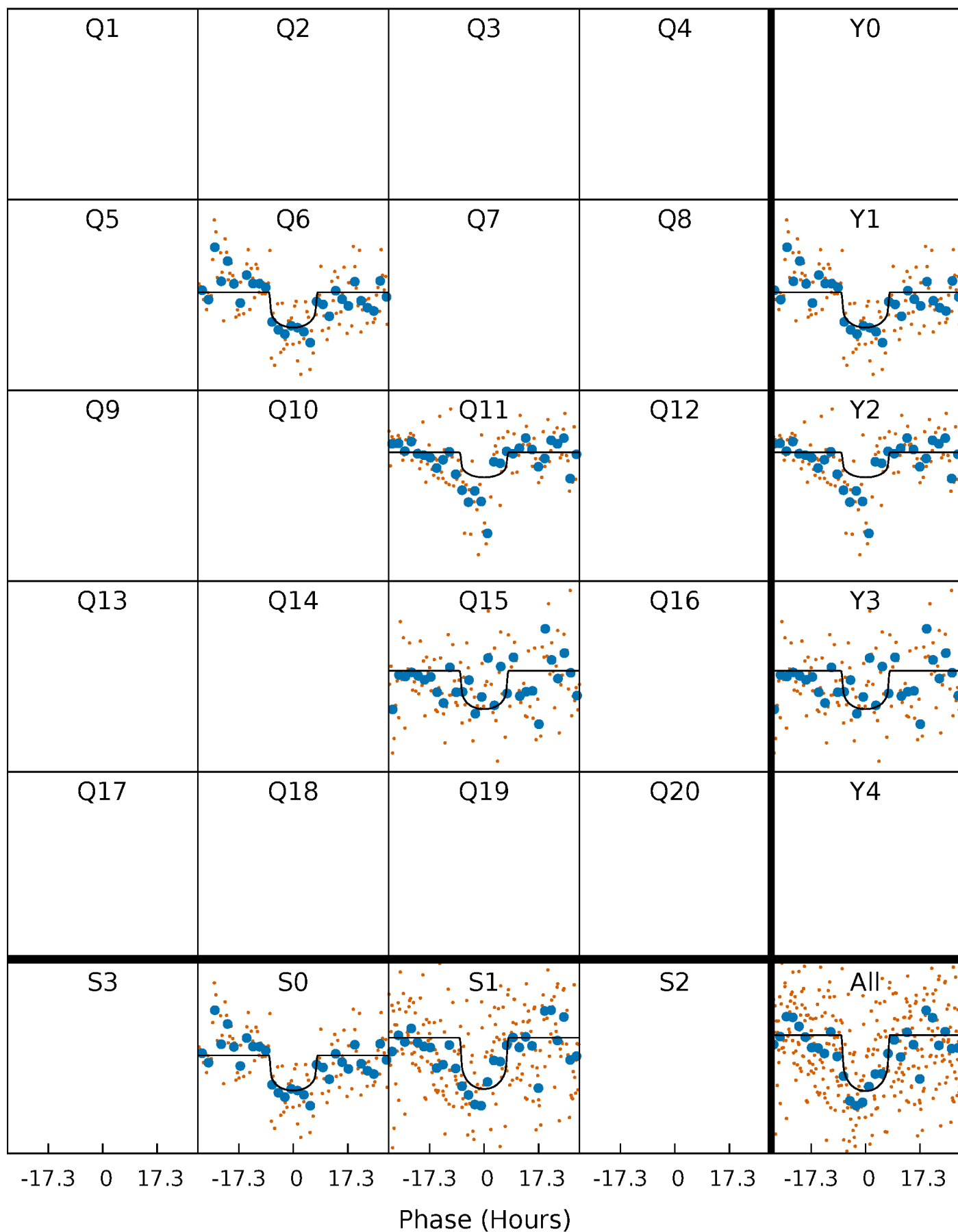
PDC Quarter-Phased Transit Curves

TCE 006507265-01 P=446.708177 Days $T_0=561.705570$ (BKJD)



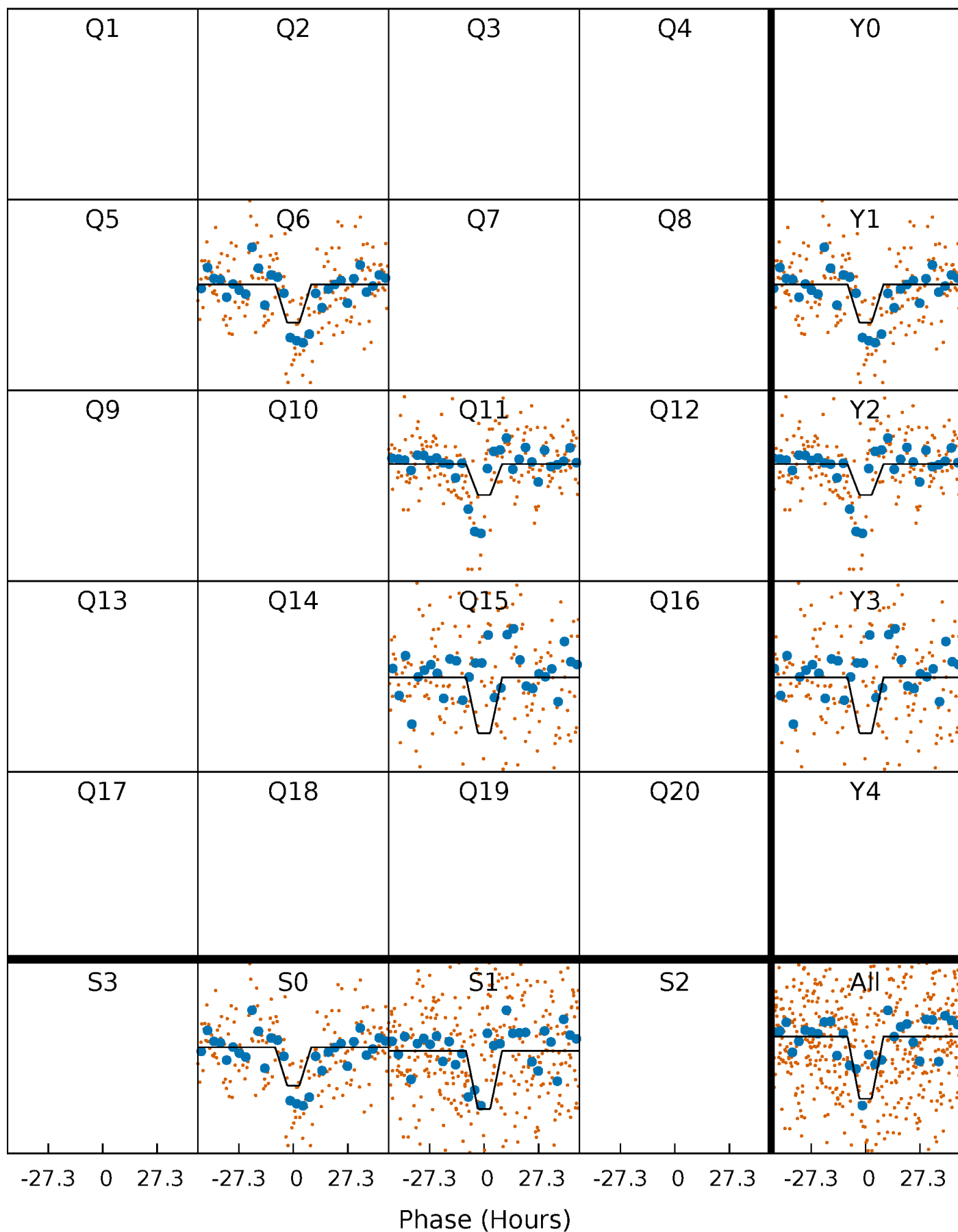
DV Quarter-Phased Transit Curves

TCE 006507265-01 P=446.708177 Days $T_0=561.705570$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

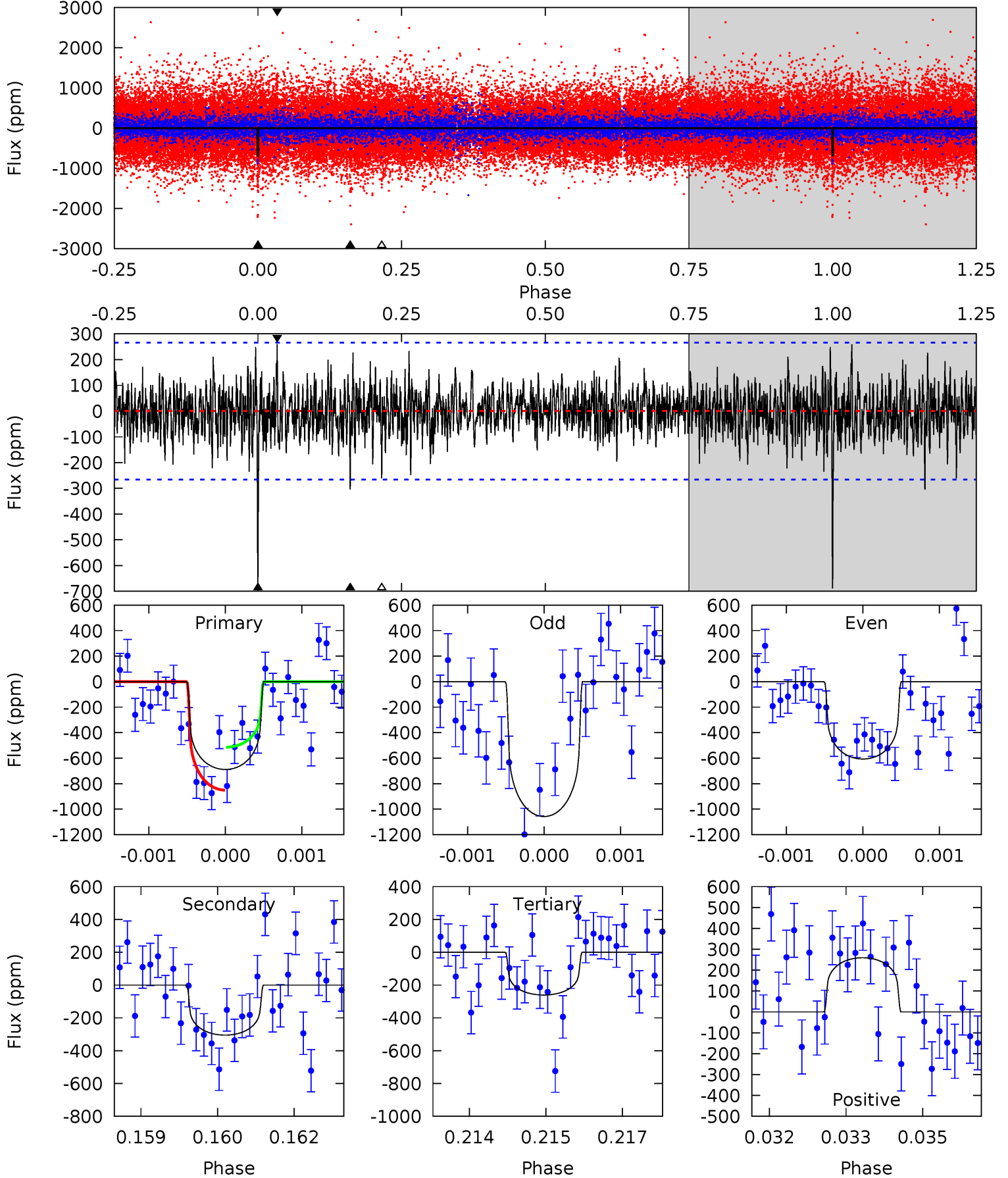
TCE 006507265-01 P=446.922824 Days $T_0=561.568455$ (BKJD)



DV Model-Shift Uniqueness Test

006507265-01, P = 446.708177 Days, E = 114.997393 Days

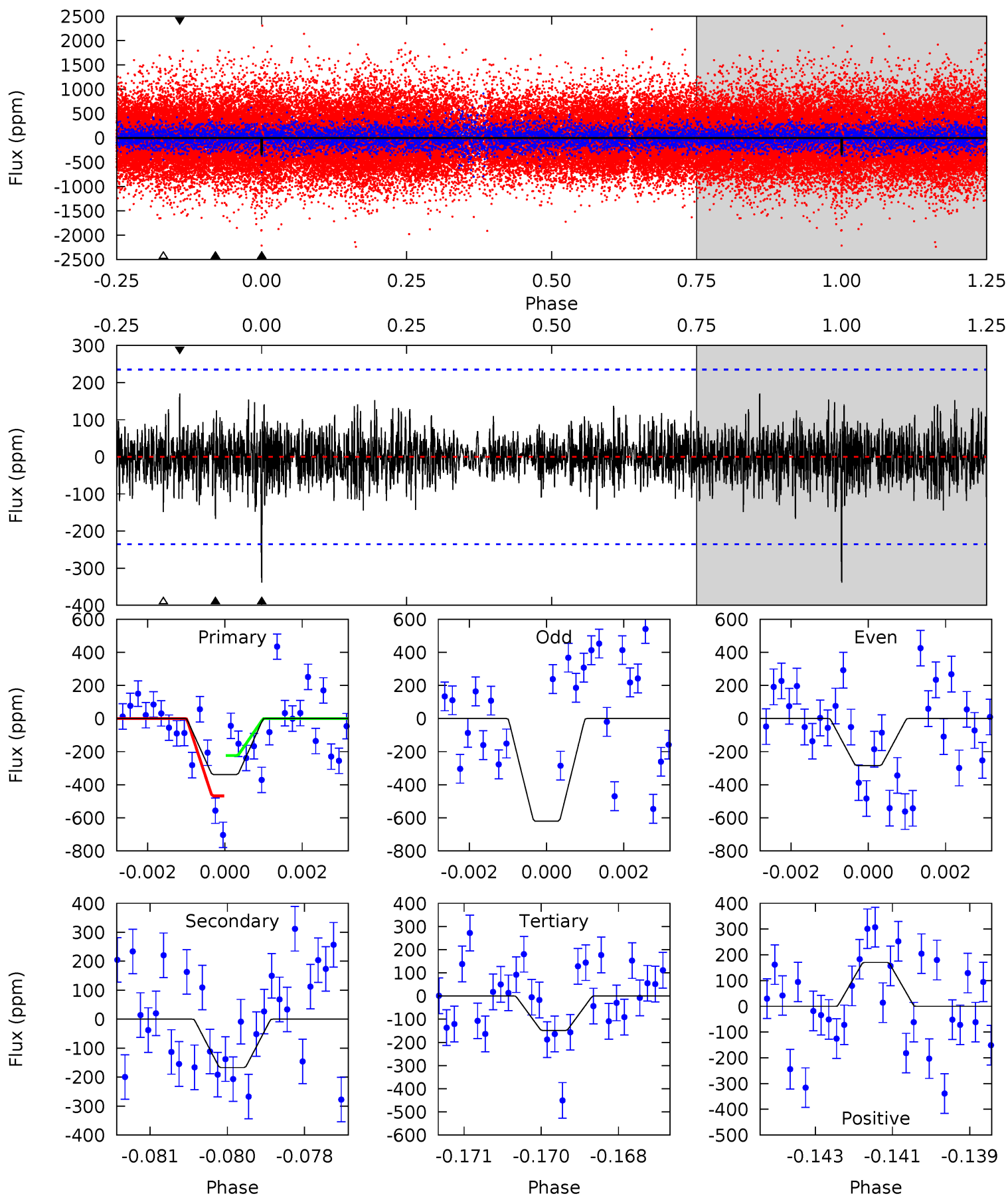
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.0	6.18	5.28	5.25	5.39	3.19	1.40	8.67	8.70	0.90	0.93	4.26	0.90	0.27	3.40



Alt Model-Shift Uniqueness Test

006507265-01, P = 446.922824 Days, E = 114.645631 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.70	3.80	3.38	3.88	5.36	3.14	1.04	4.32	3.82	0.42	-0.07	3.62	0.64	0.33	2.78



Stellar Parameters For KIC 006507265

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5691^{+160}_{-200}	$4.544^{+0.032}_{-0.179}$	$0.070^{+0.250}_{-0.300}$	$0.887^{+0.233}_{-0.078}$	$1.003^{+0.090}_{-0.120}$	$2.025^{+0.354}_{-0.962}$
	+3%/-4%	+1%/-4%	+357%/-429%	+26%/-9%	+9%/-12%	+17%/-47%
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 006507265-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-305 ± 49	$2.73^{+1.78}_{-1.58}$	316^{+18}_{-15}	4655^{+2431}_{-769}	$28133^{+135015}_{-18194}$
Alt.	-167 ± 44	$2.79^{+1.75}_{-1.63}$	315^{+21}_{-14}	4181^{+1859}_{-702}	15079^{+75710}_{-9835}

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 $A_{obs} \gg 1.0$

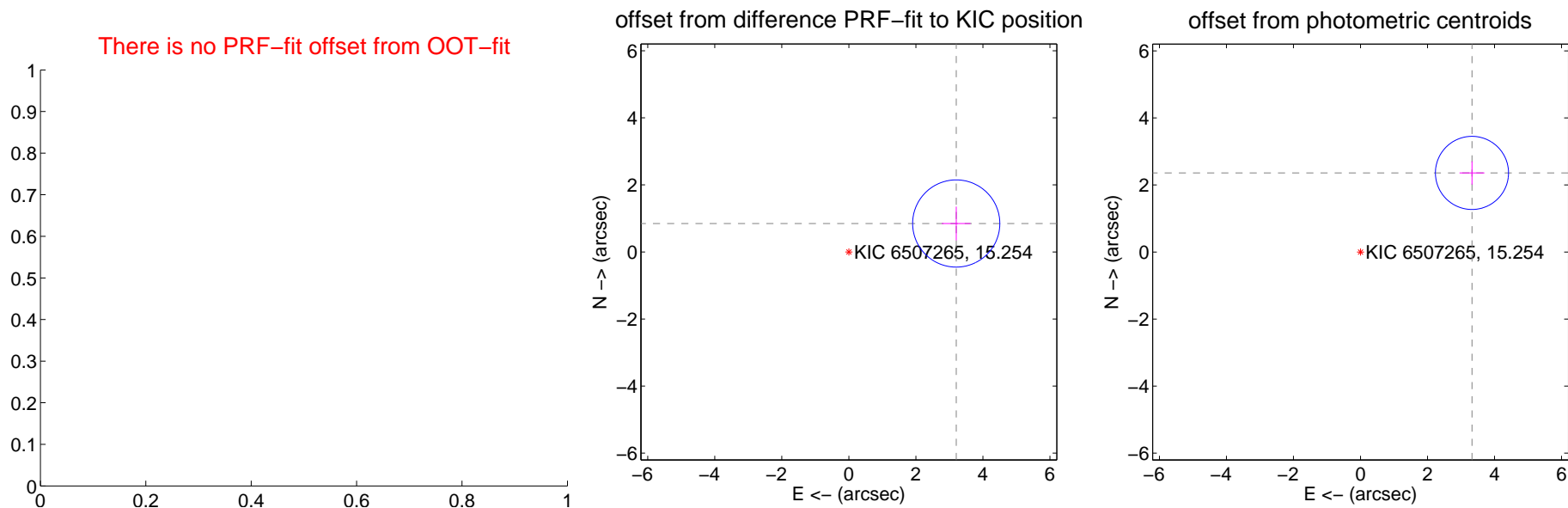
DV Centroid Data

Supplemental centroid analysis for 006507265-01. Kepler magnitude: 15.25. Transit SNR 7.53

There are 1 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	3.314 ± 0.434	7.64	-3.204 ± 0.428	0.848 ± 0.503
photometric centroid source offset	4.08 ± 0.36	11.22	-3.33 ± 0.37	2.36 ± 0.35

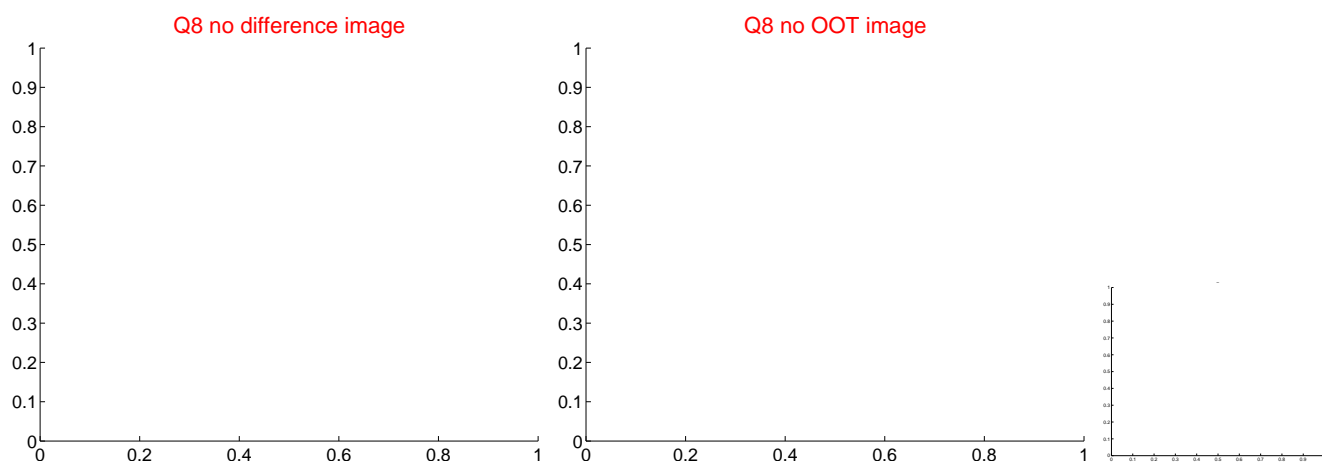
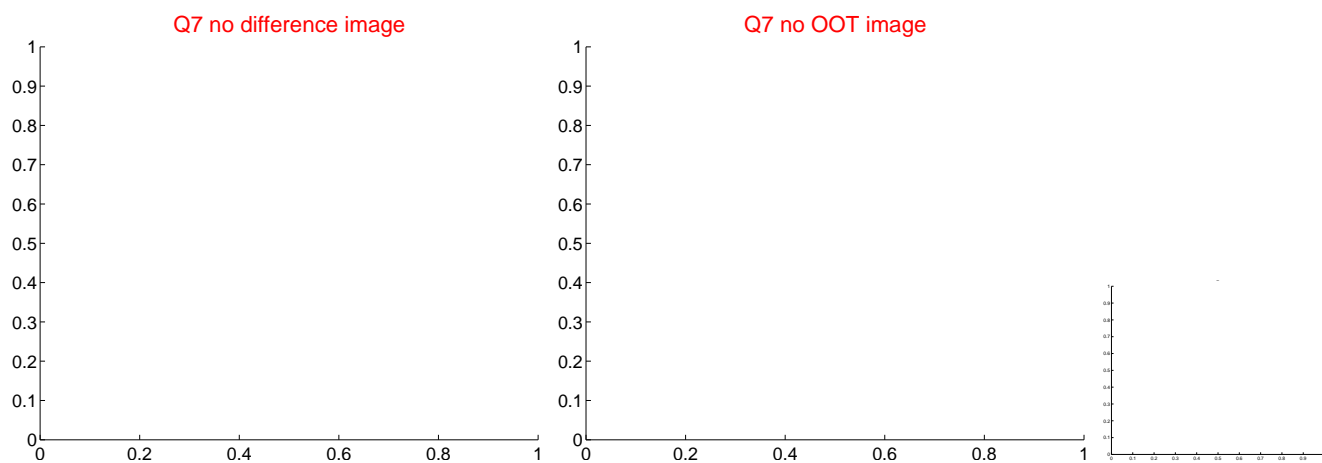
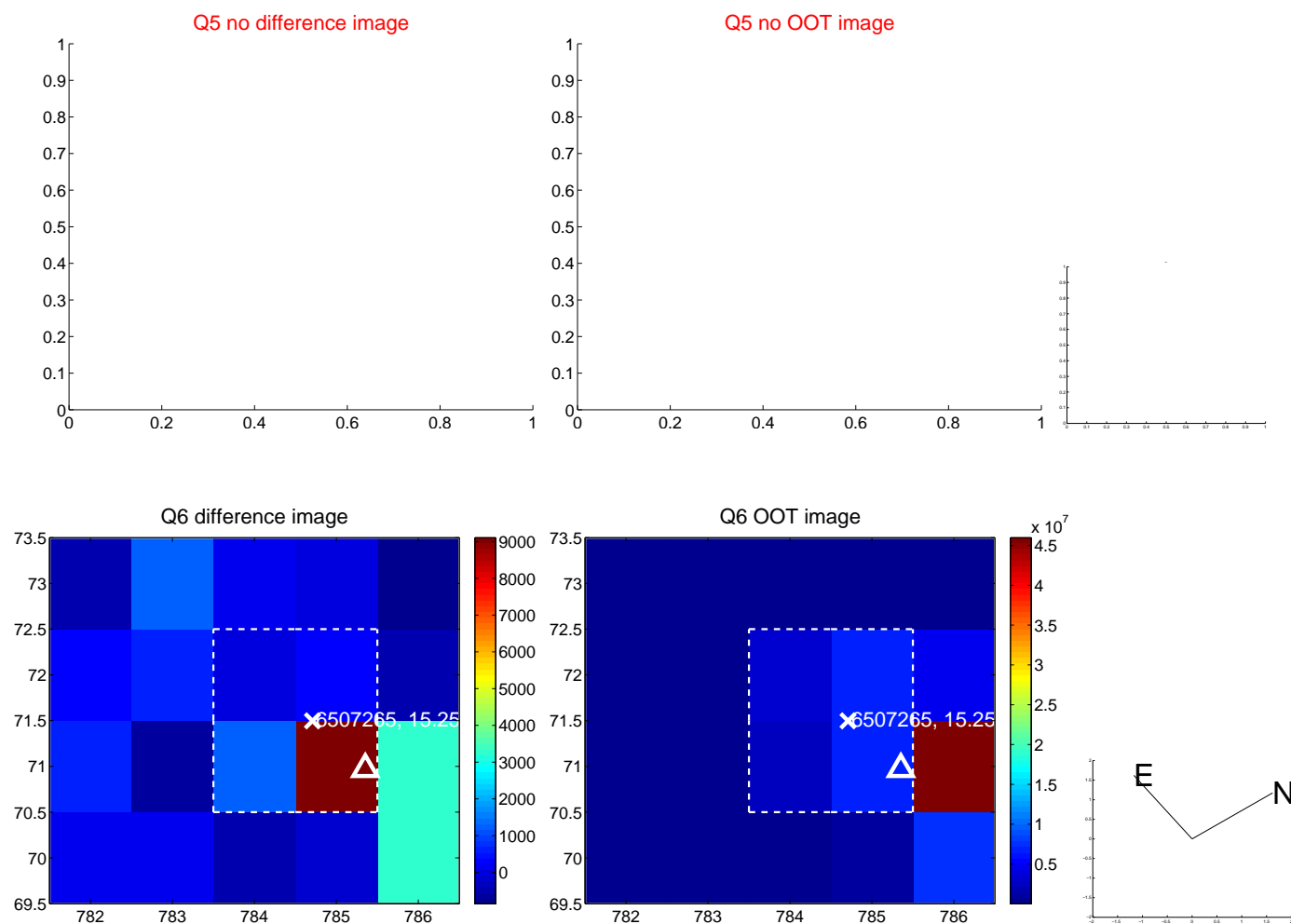


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

Q13 no difference image



Q13 no OOT image



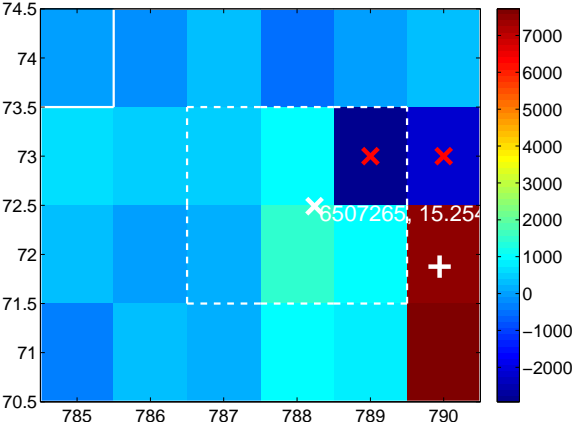
Q14 no difference image



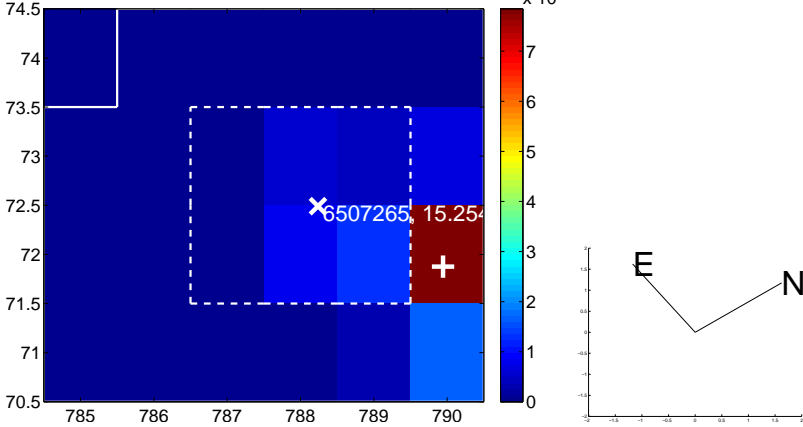
Q14 no OOT image



Q15 difference image. Poor Quality



Q15 OOT image



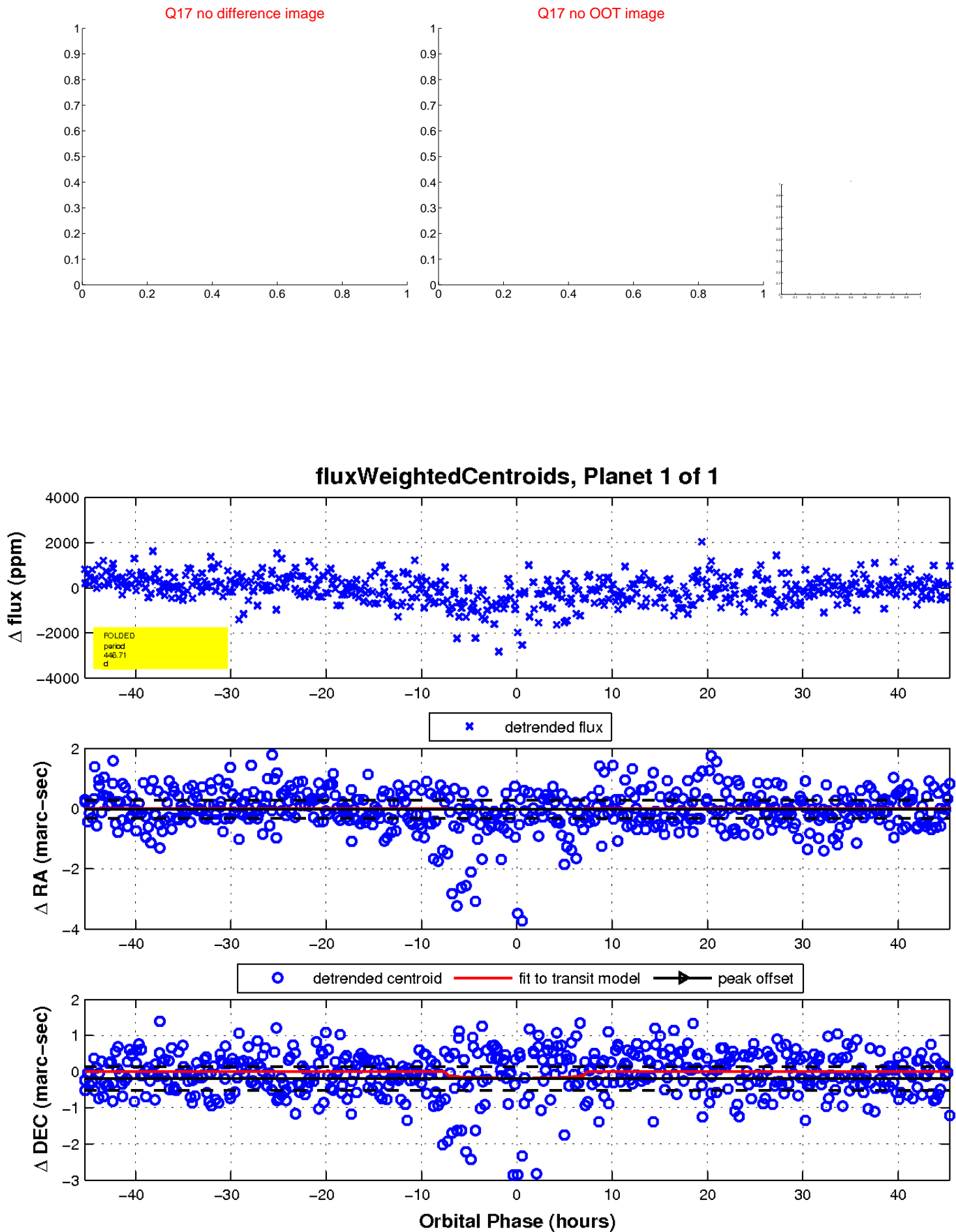
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

