

KIC 100001645

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})
100001645-01	OBS	No	67.515412	135.234887	454.8	2.109	11.9	1.6	1.00	5780	2.12	9.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
100001645-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

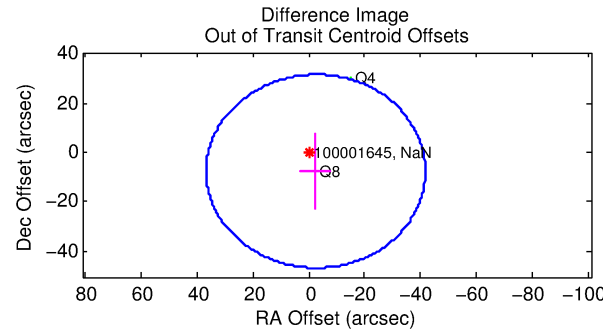
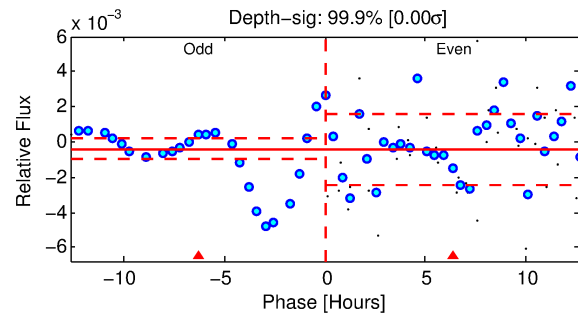
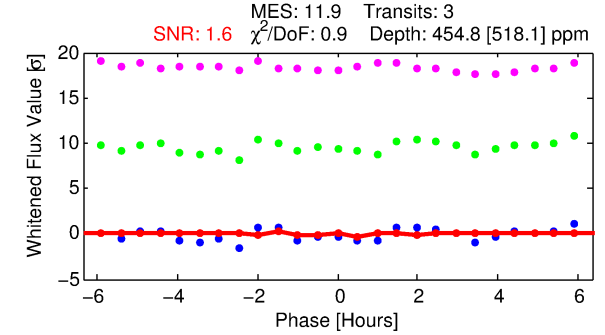
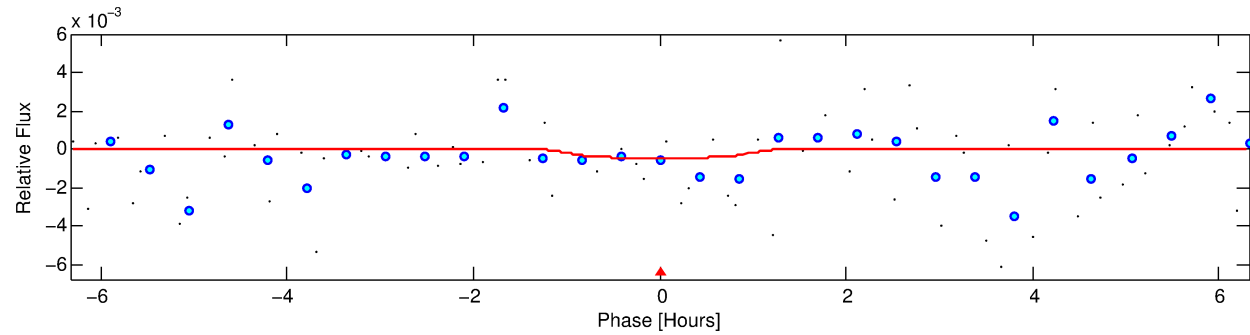
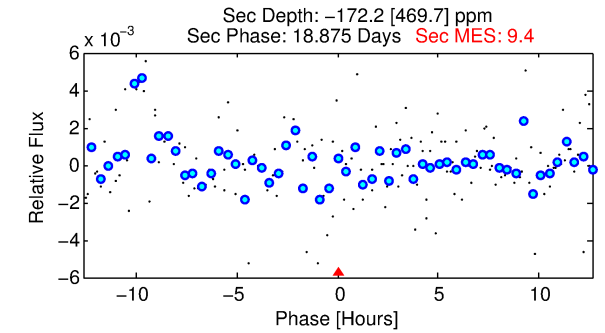
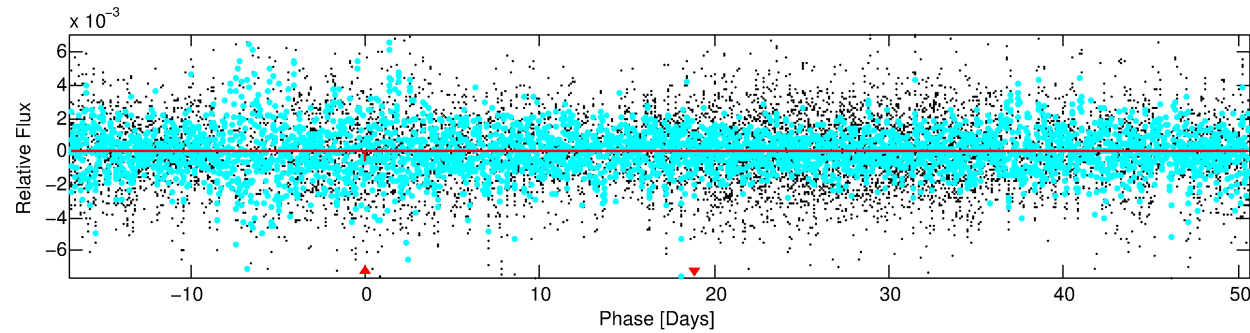
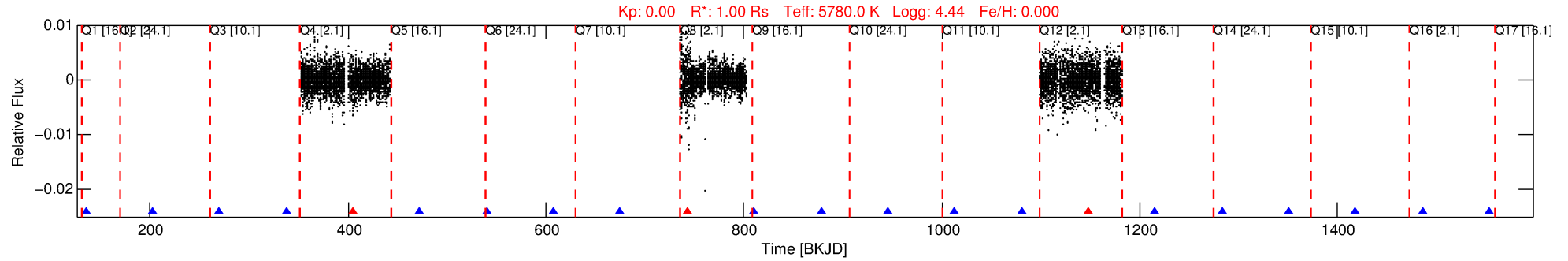
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 100001645-01

No Significant Match Found

DV One-Page Summary

KIC: 100001645 Candidate: 1 of 1 Period: 67.515 d



DV Fit Results:

Period = 67.51541 [0.00861] d
Epoch = 135.2349 [0.0328] BKJD
Rp/R* = 0.0194 [0.1517]
a/R* = 245.47 [7878.30]
b = 0.18 [177.51]
Seff = 9.49 [0.00]
Teq = 448 [0] K
Rp = 2.12 [16.55] Re
a = 0.3246 [0.0000] AU
Ag = N/A
Teffp = N/A

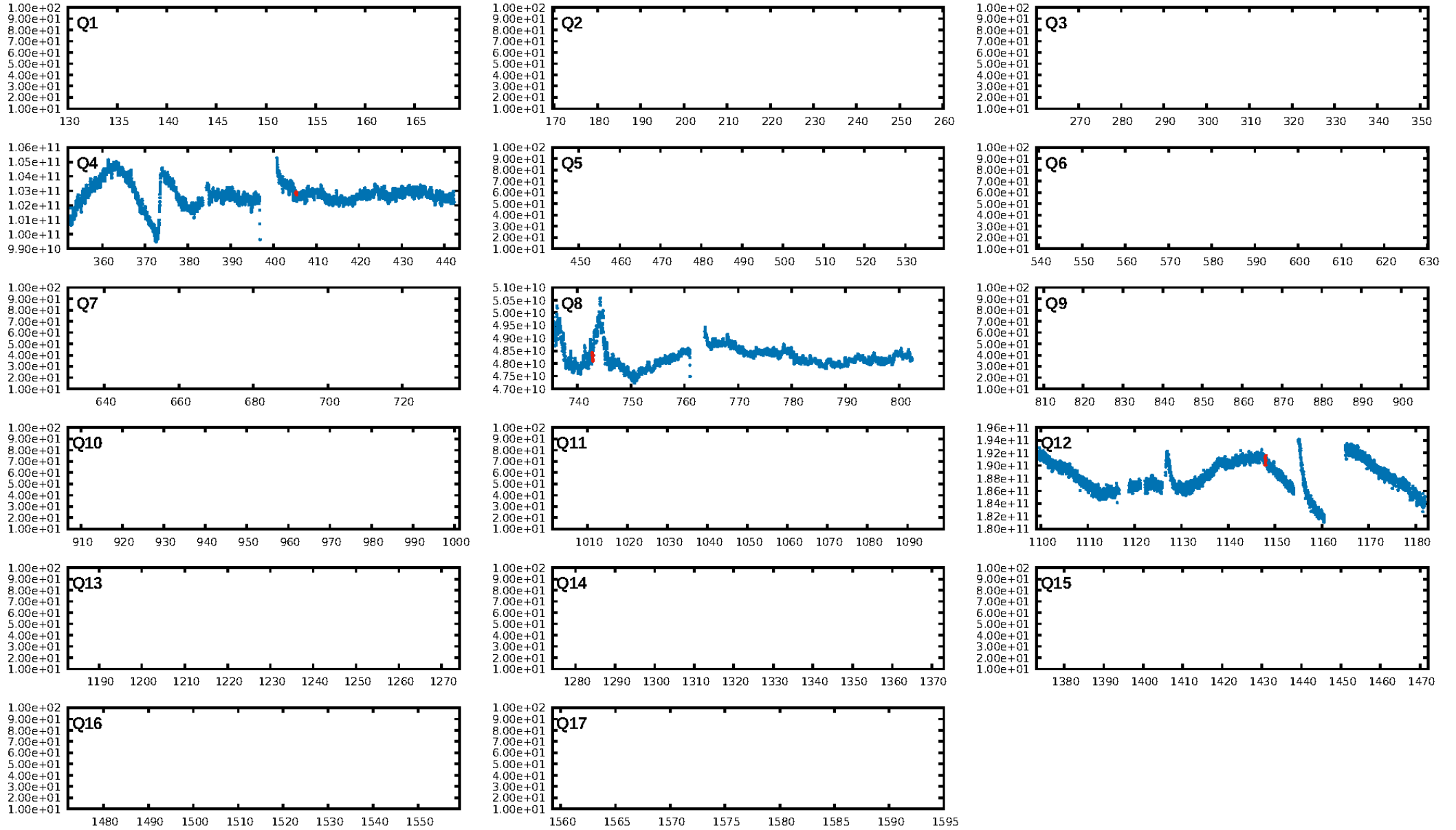
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 25.0%
ModelChiSquareGof-sig: 96.7%
Bootstrap-pfa: 9.22e-13
RollingBand-fgt: 0.00 [0/3]
GhostDiagnostic-chr: N/A
Centroid-sig: 89.8%
Centroid-so: 8.672 arcsec [0.25σ]
OotOffset-rm: 8.070 arcsec [0.62σ]
KicOffset-rm: 17.617 arcsec [1.48σ]
OotOffset-st: 0/0/2/0 [2]
KicOffset-st: 0/0/2/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [3/3]

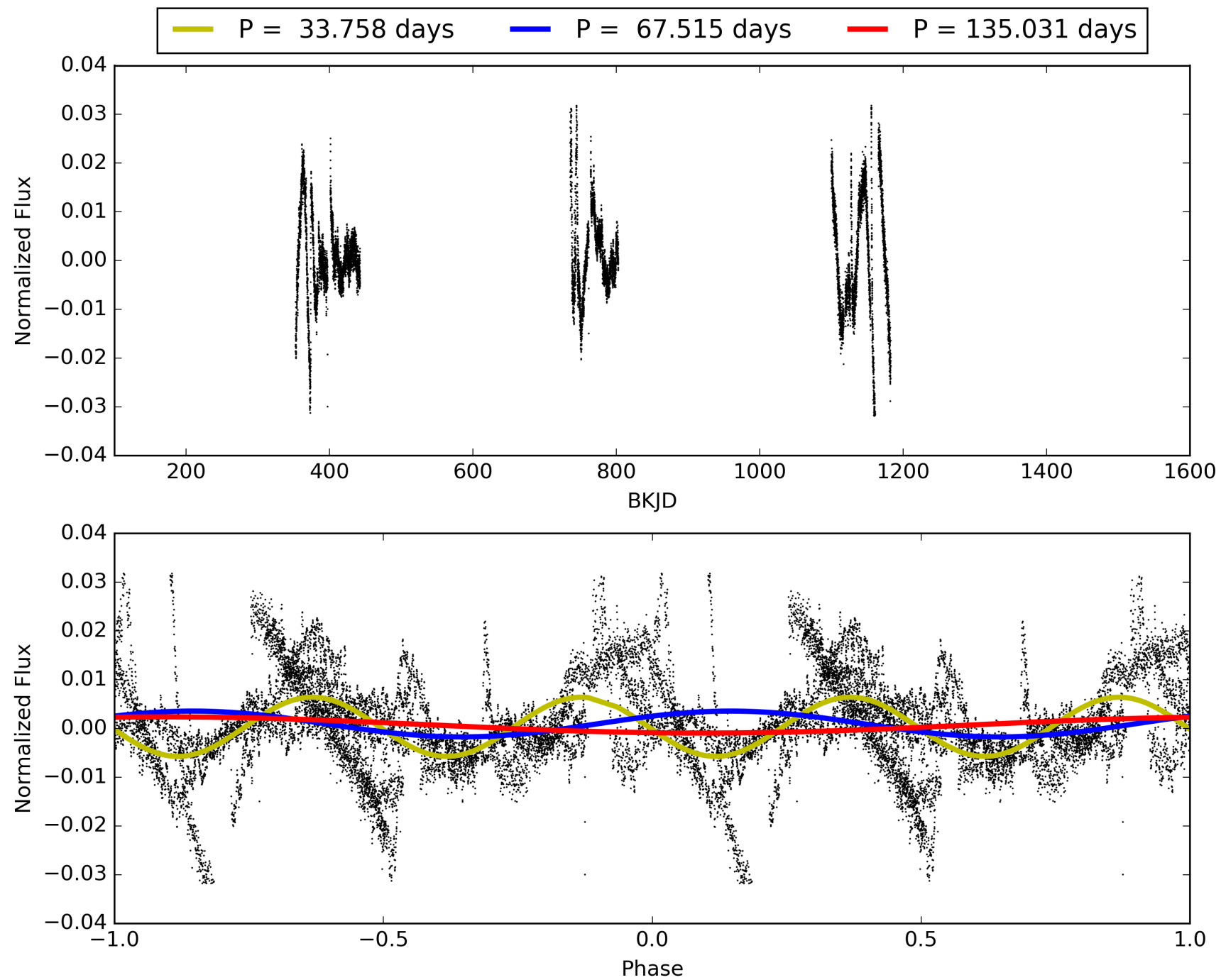
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 21:08:53 Z

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

TCE 100001645-01, PDC Light Curves

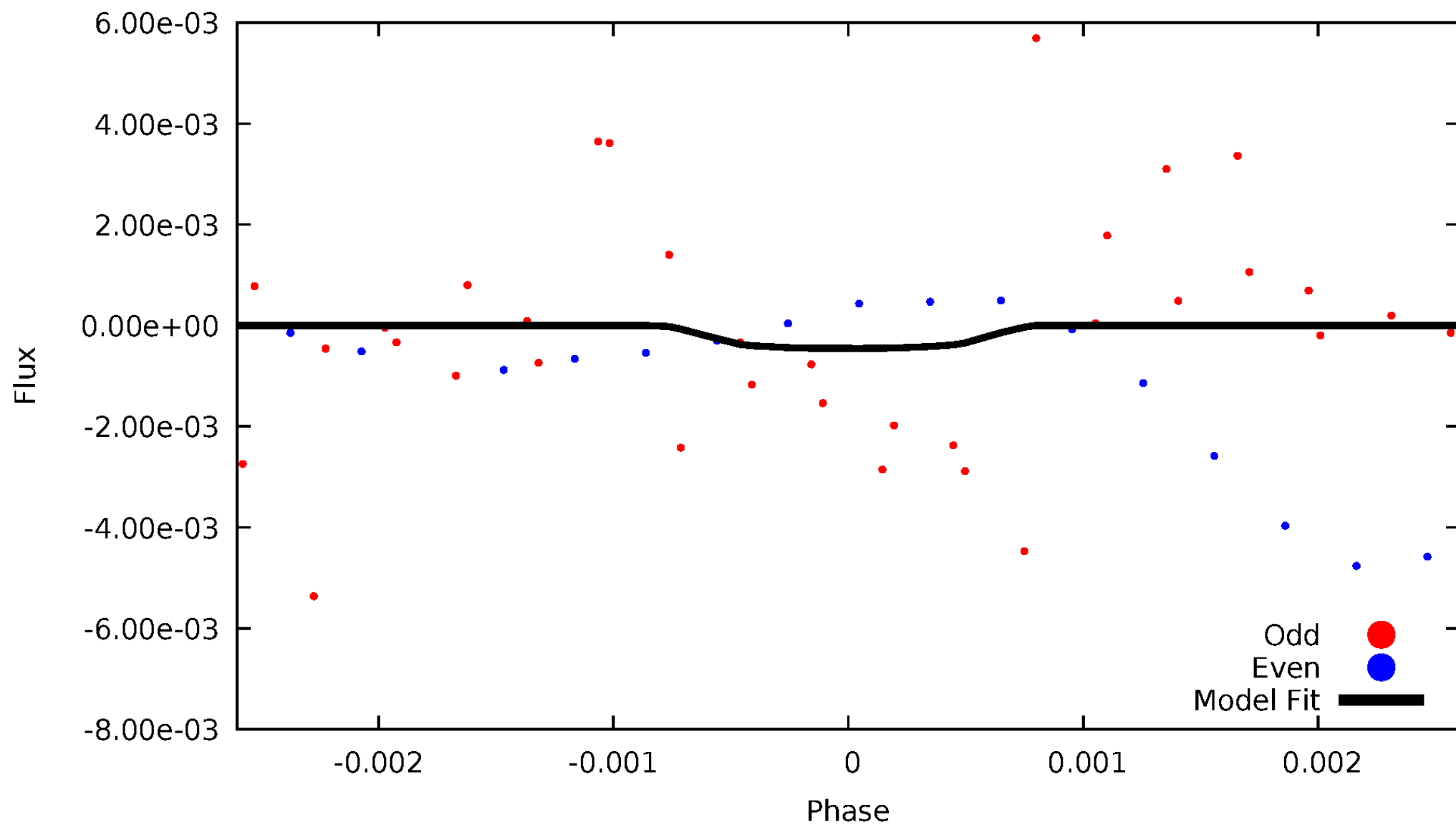


TCE 100001645-01



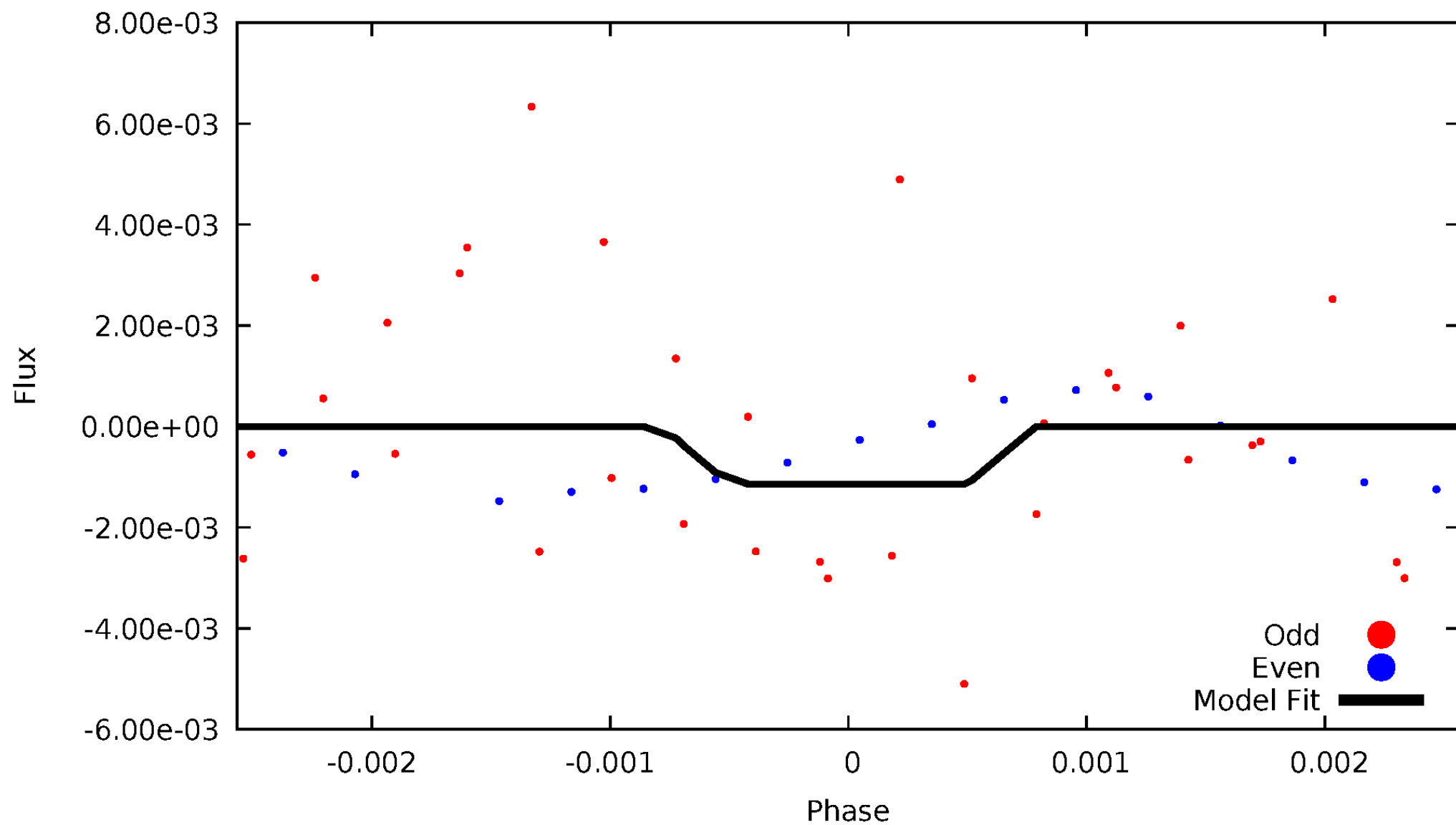
DV Odd/Even

TCE 100001645-01



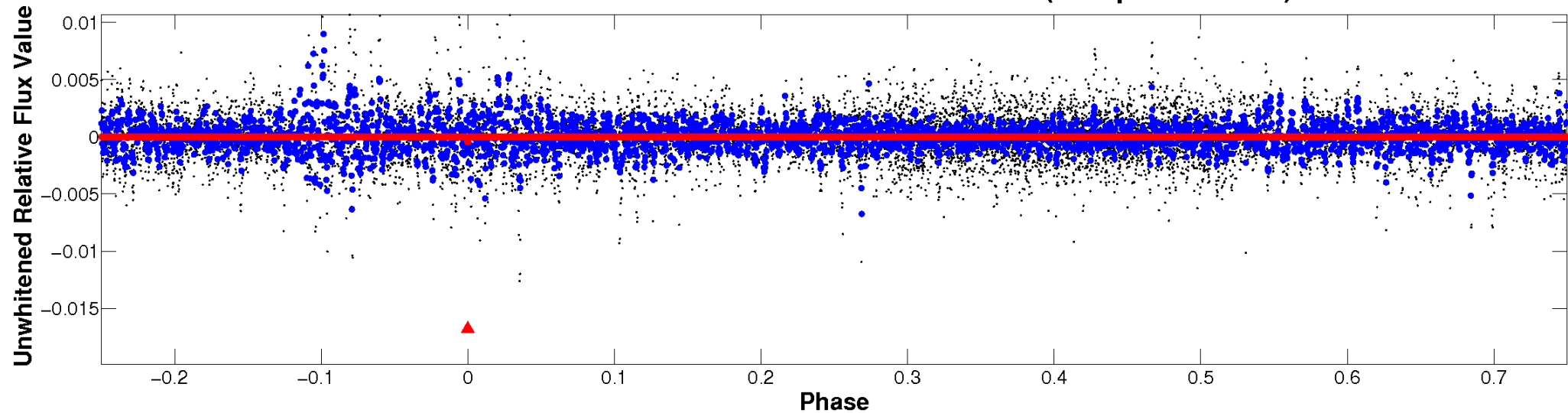
ALT Odd/Even

TCE 100001645-01

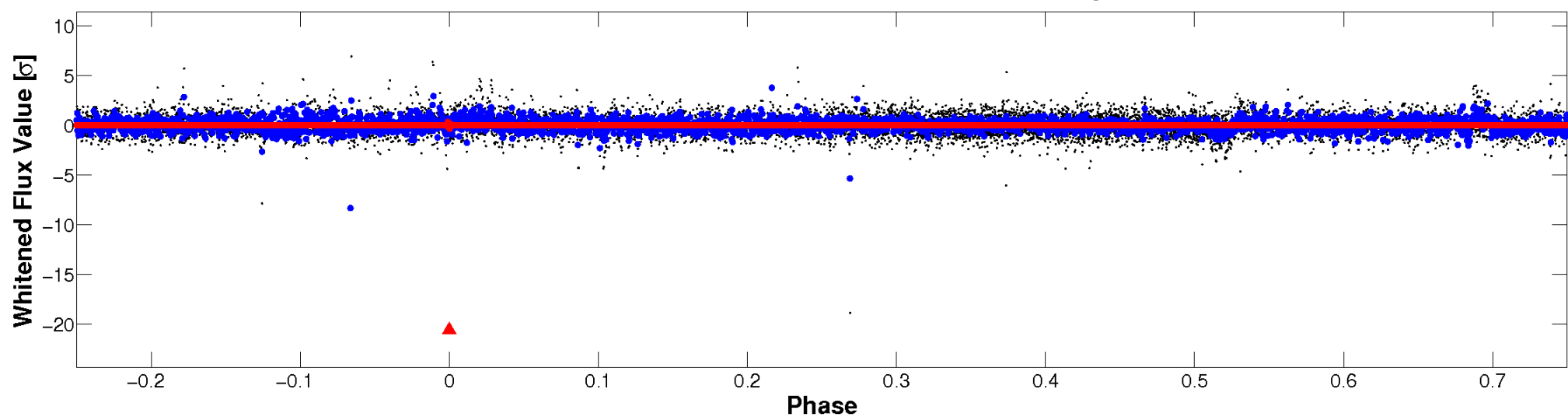


Non-Whitened Vs. Whitened Light Curve

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

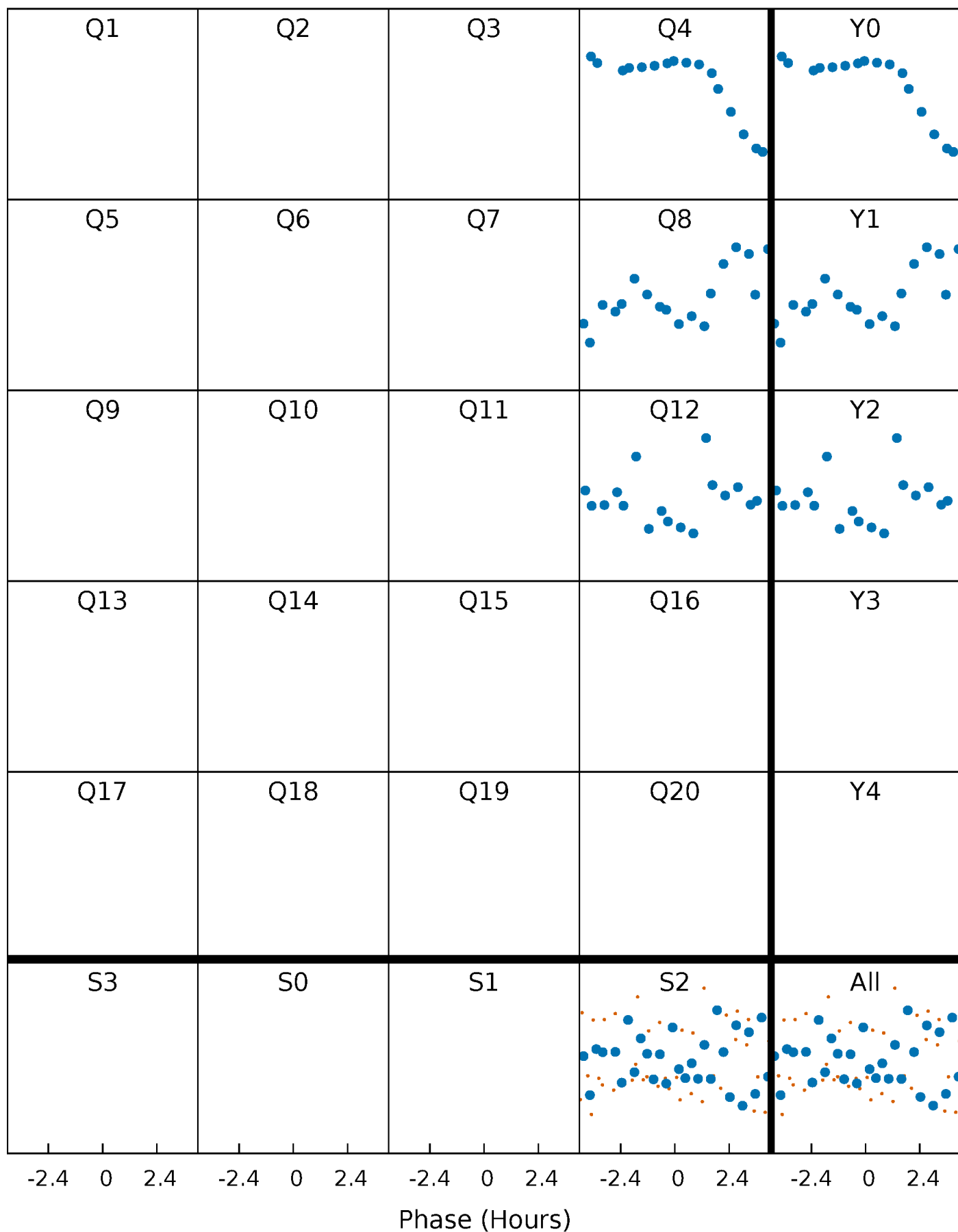


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



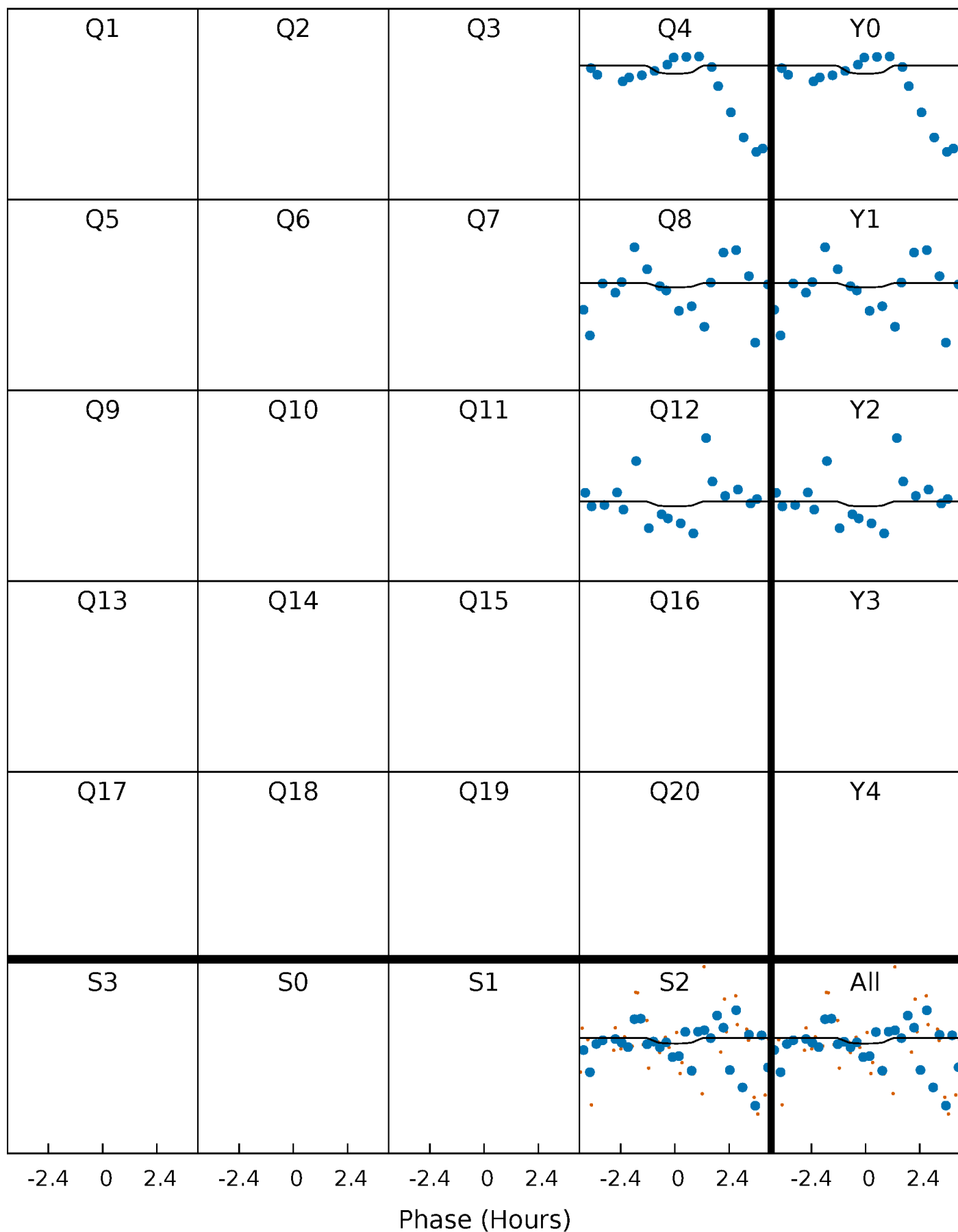
PDC Quarter-Phased Transit Curves

TCE 100001645-01 P= 67.515412 Days $T_0=135.234887$ (BKJD)



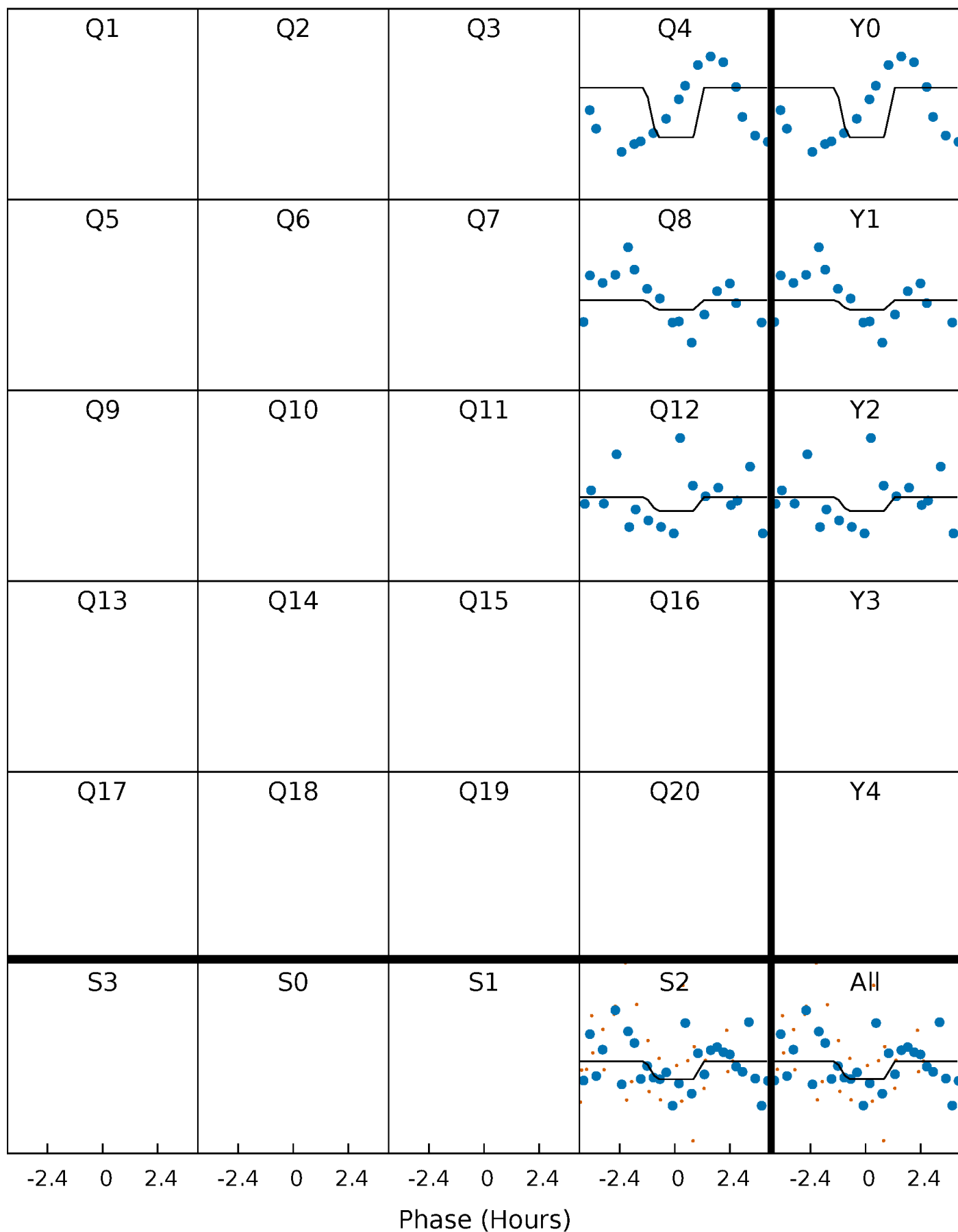
DV Quarter-Phased Transit Curves

TCE 100001645-01 P= 67.515412 Days $T_0=135.234887$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

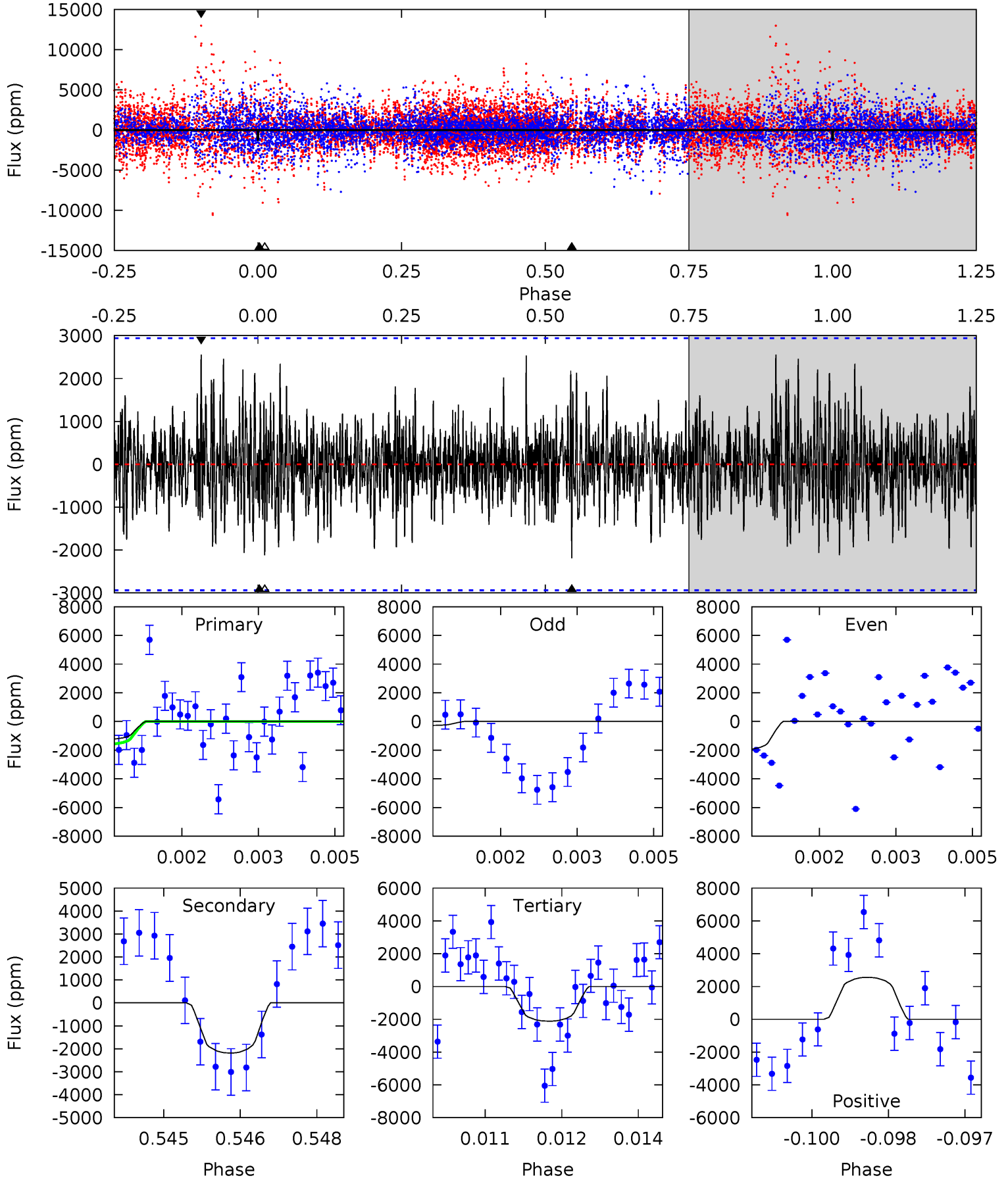
TCE 100001645-01 P= 67.519005 Days $T_0=135.220336$ (BKJD)



DV Model-Shift Uniqueness Test

100001645-01, P = 67.515412 Days, E = 135.234887 Days

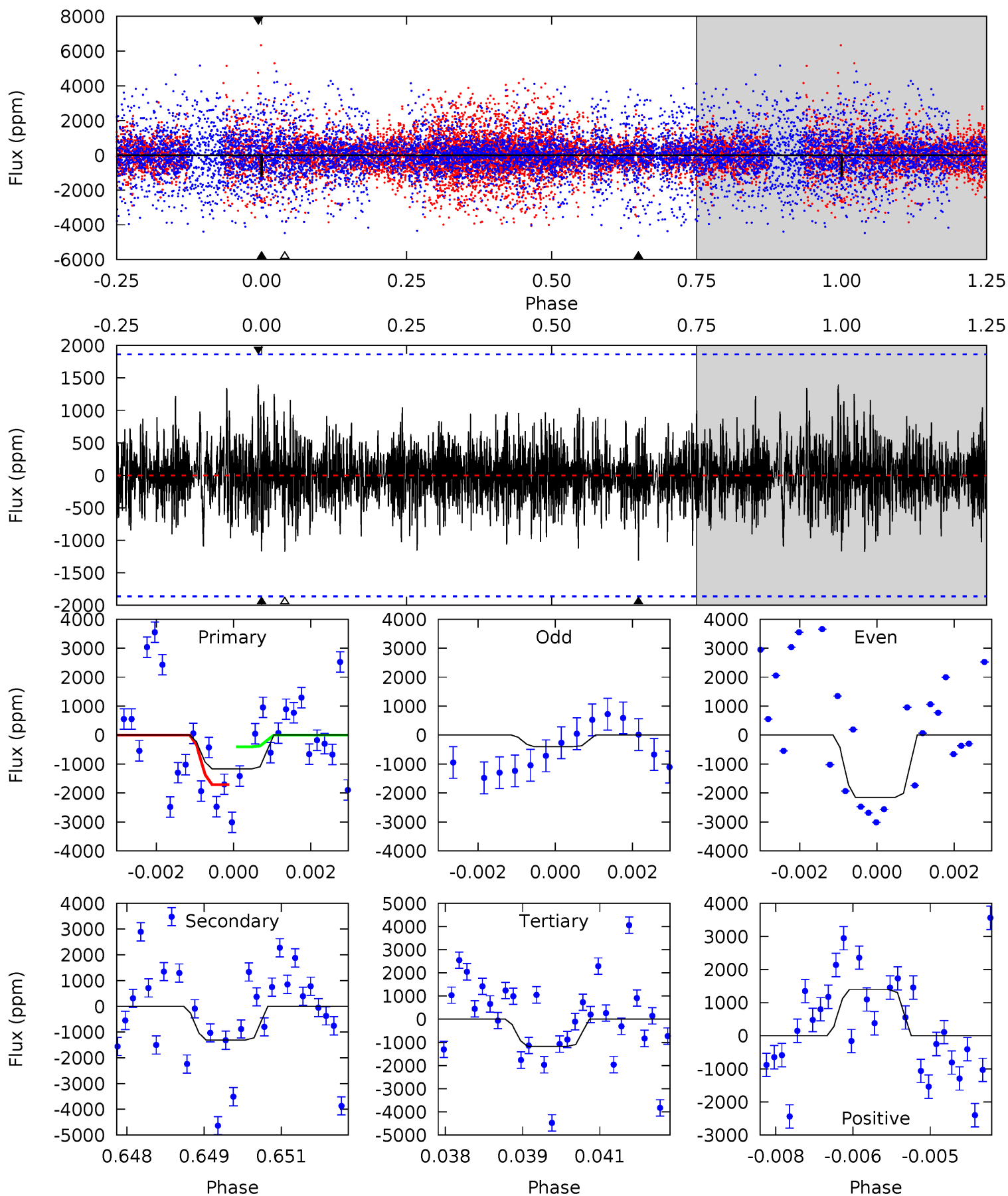
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.28	4.00	3.87	4.68	5.38	3.17	1.19	-1.60	-2.40	0.13	-0.68	1.51	0.67	0.54	0.68



Alt Model-Shift Uniqueness Test

100001645-01, P = 67.519005 Days, E = 135.220336 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.38	3.78	3.39	4.03	5.38	3.17	1.04	-0.01	-0.65	0.40	-0.25	2.65	2.47	0.52	1.90



Stellar Parameters For KIC 100001645

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5780^{+1}_{-1}	$4.438^{+1.000}_{-1.000}$	$0.000^{+1.000}_{-1.000}$	$1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$
	+0%/-0%	+23%/-23%	+inf%/-inf%	+100%/-100%	+100%/-100%	+100%/-100%
Source	Solar	Solar	Solar	Solar		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 100001645-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2188 ± 547	$12.57^{+11.97}_{-8.75}$	626^{+30}_{-28}	4001^{+2606}_{-831}	789^{+8296}_{-597}
Alt.	-1310 ± 346	$13.10^{+12.68}_{-8.69}$	626^{+30}_{-28}	3600^{+1829}_{-672}	435^{+3287}_{-322}

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 $A_{obs} \gg 1.0$

This plot does not exist for this TCE.