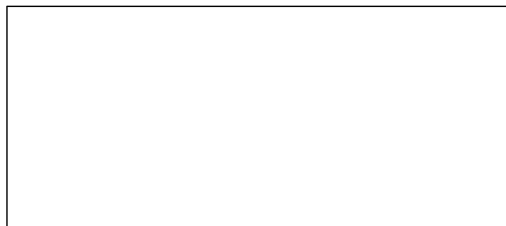
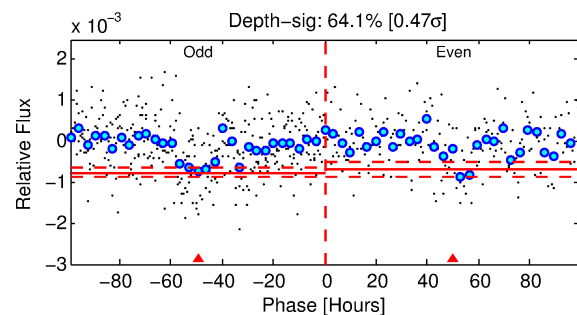
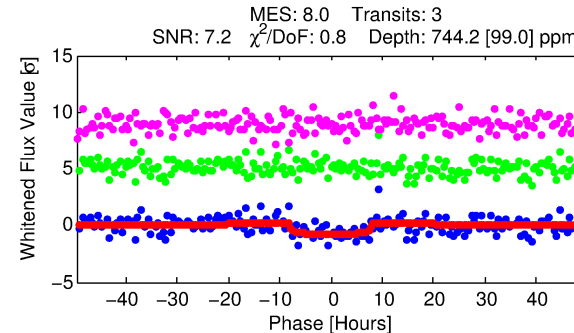
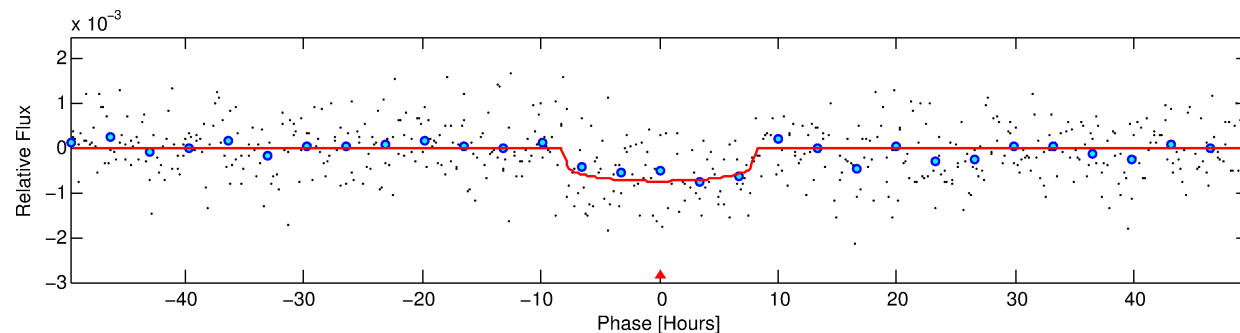
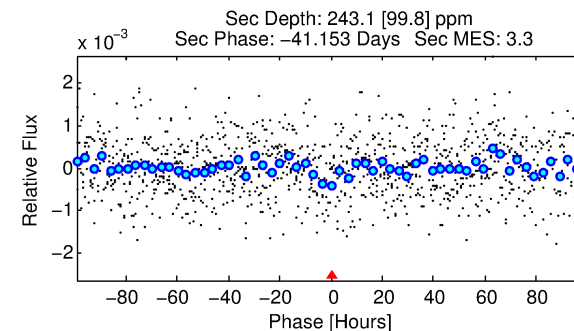
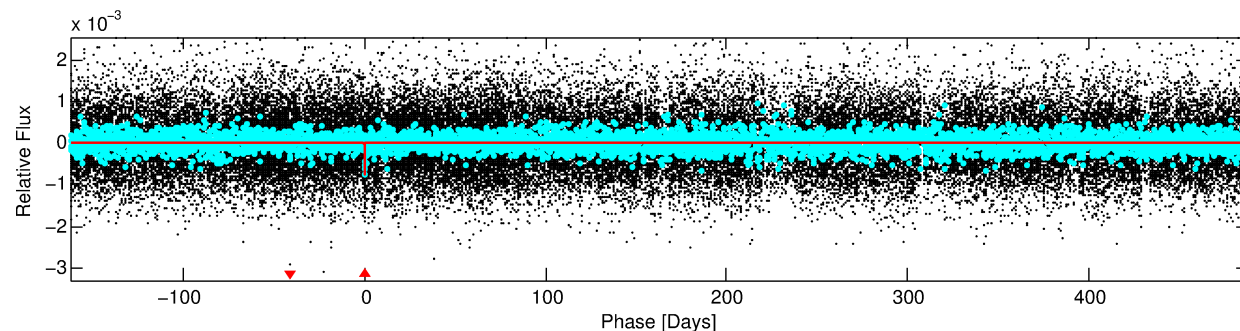
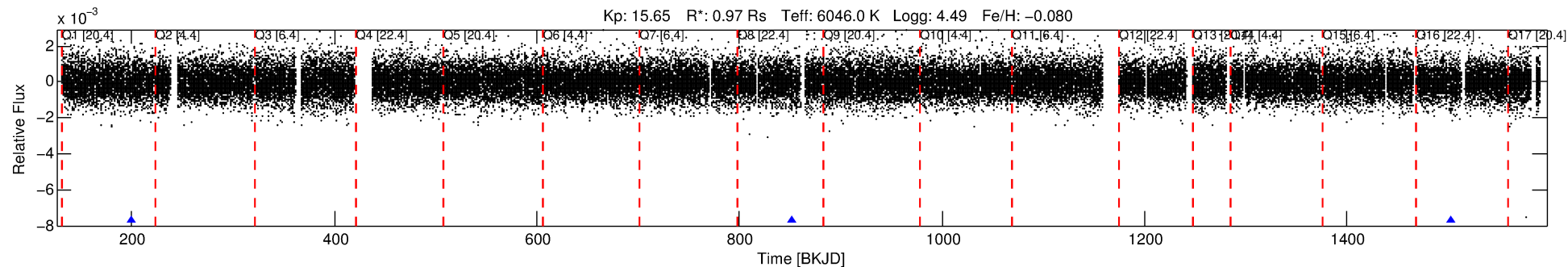


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 4949239 Candidate: 1 of 1 Period: 651.906 d

**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**



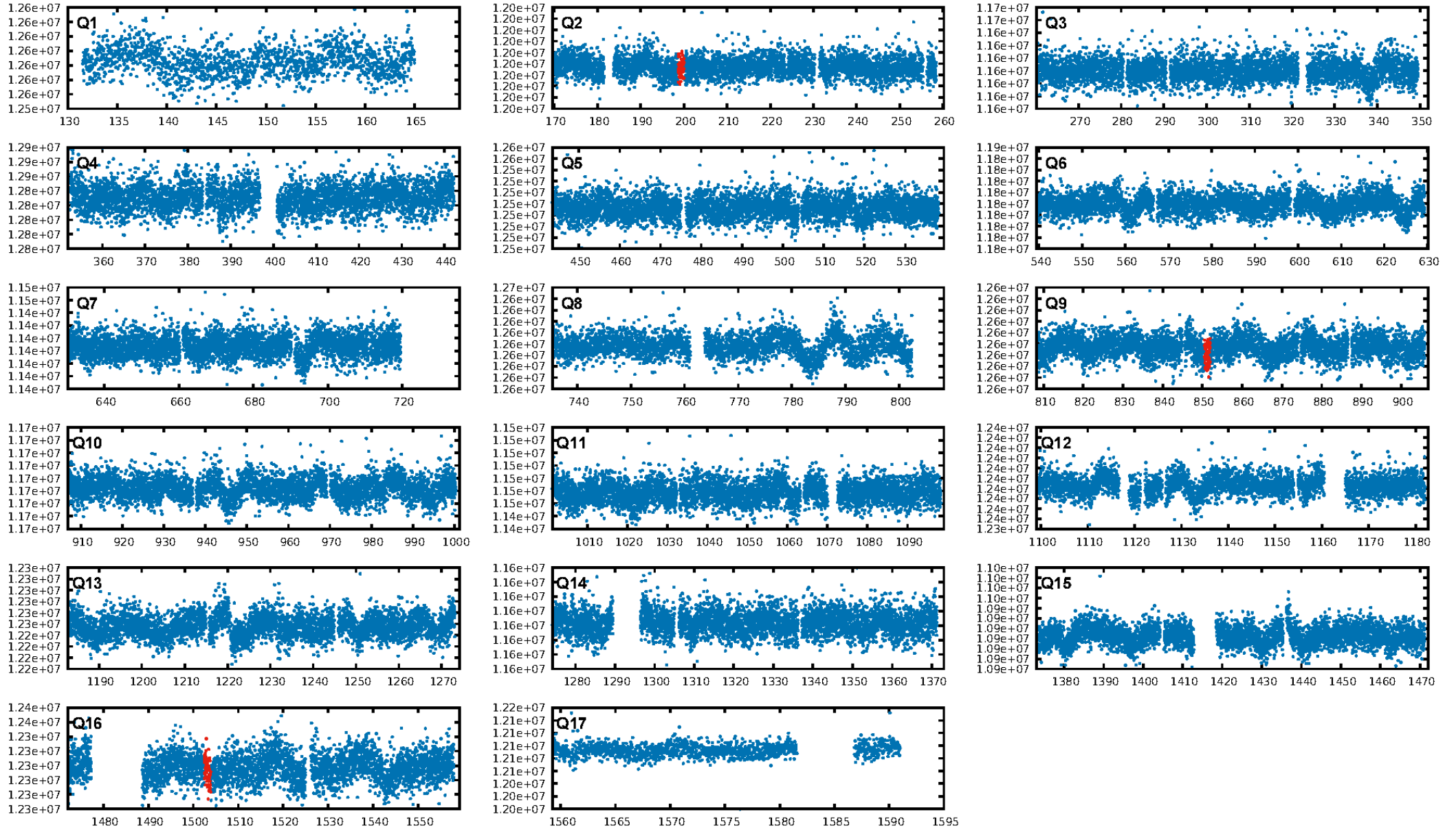
DV Fit Results:

Period = 651.90564 [0.01614] d
Epoch = 199.3541 [0.0210] BKJD
Rp/R* = 0.0259 [0.0108]
a/R* = 259.60 [508.25]
b = 0.55 [2.47]
Seff = 0.50 [0.19]
Teq = 215 [20] K
Rp = 2.74 [1.40] Re
a = 1.4983 [0.3668] AU
Ag = 39883.99 [39636.42] [1.01σ]
Teffp = 4694 [1102] K [4.06σ]

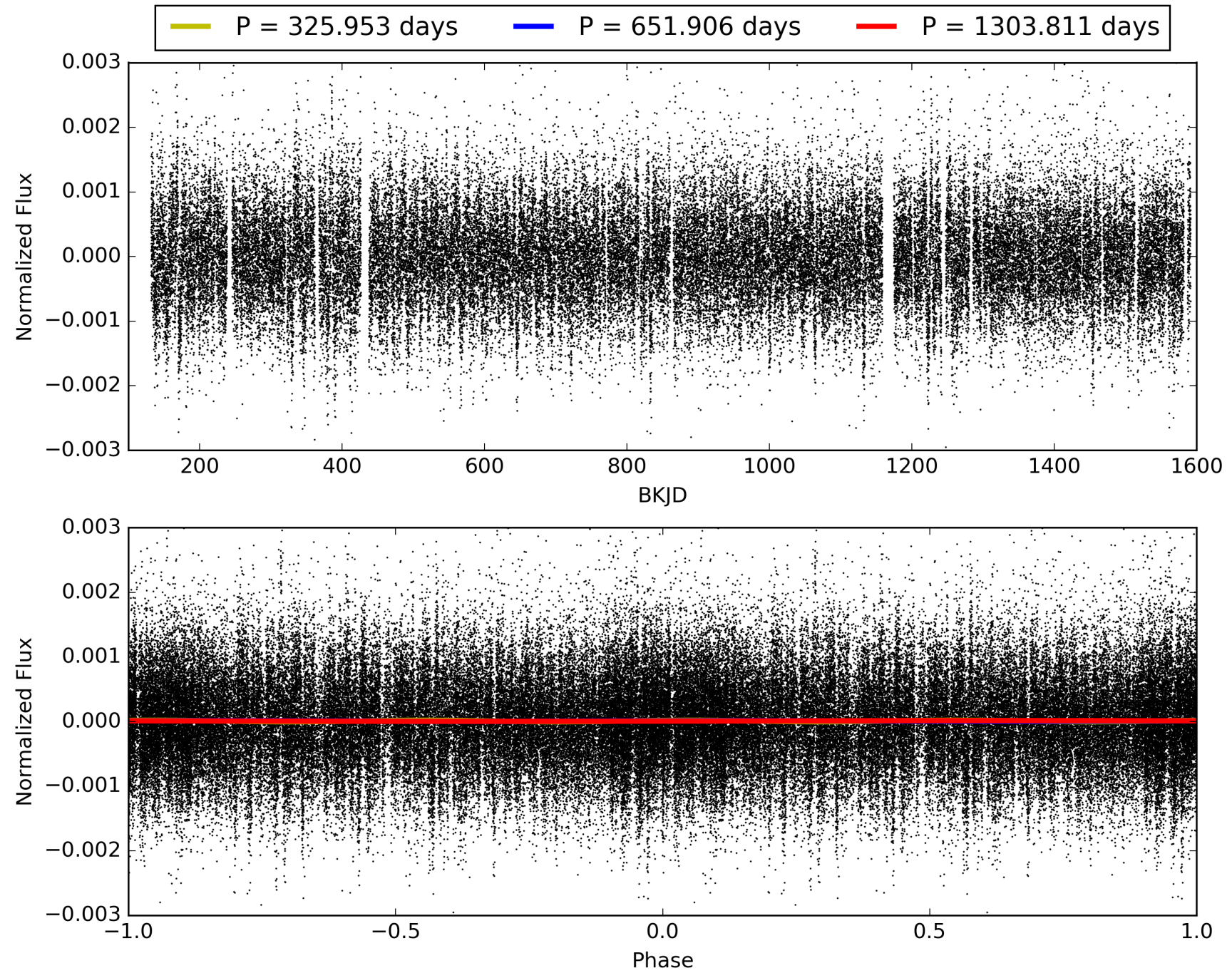
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 32.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 8.27e-11
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

TCE 004949239-01, PDC Light Curves

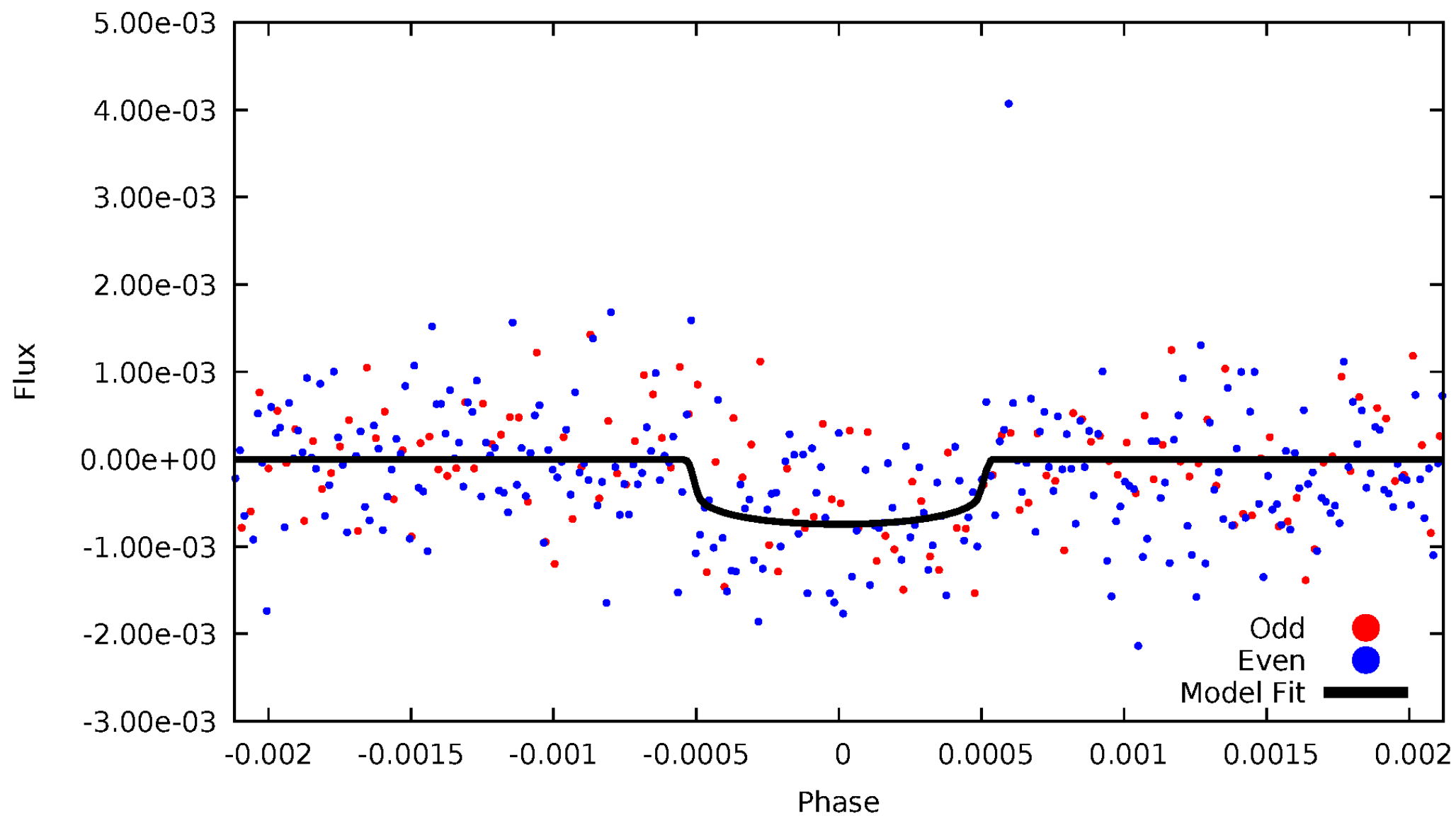


TCE 004949239-01



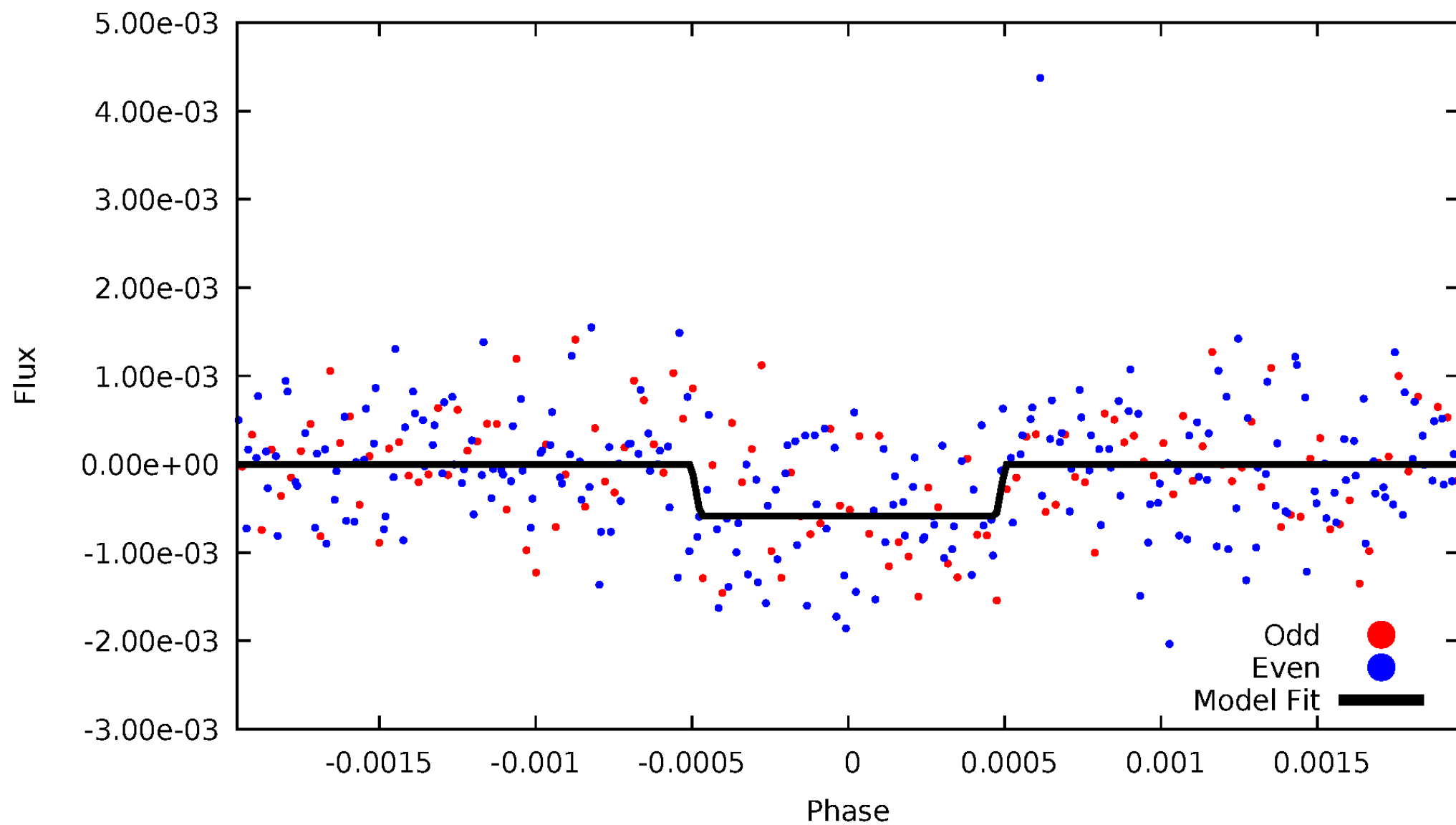
DV Odd/Even

TCE 004949239-01



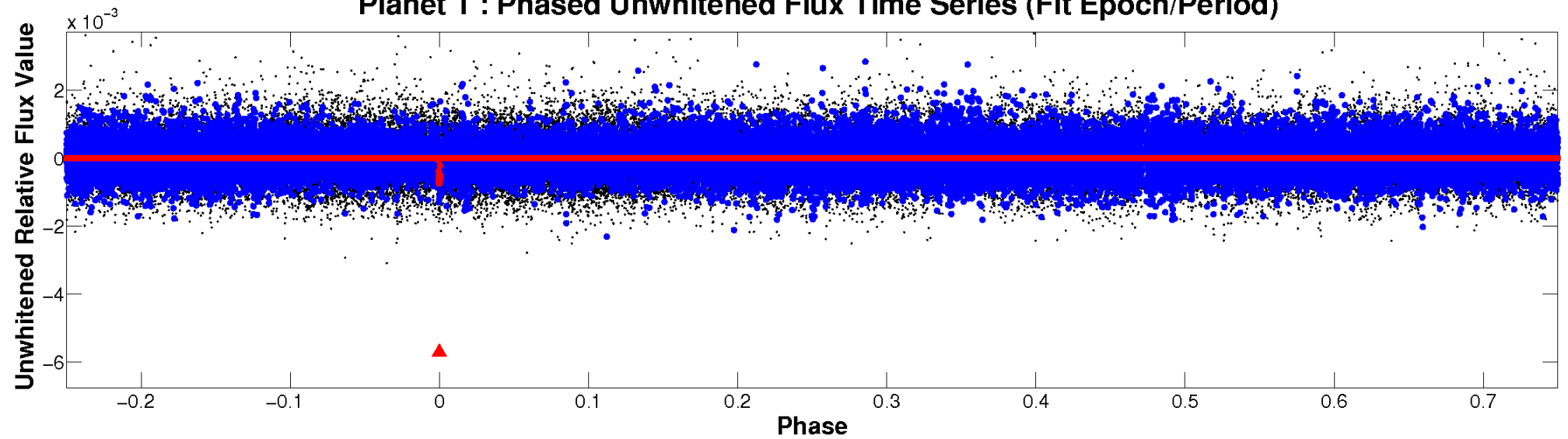
ALT Odd/Even

TCE 004949239-01

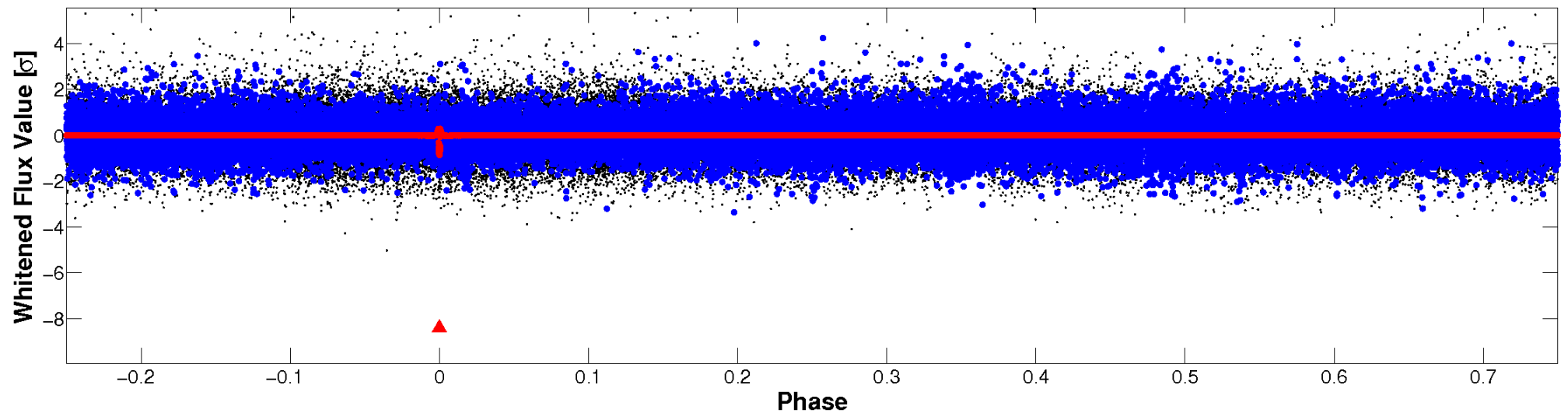


Non-Whitened Vs. Whitened Light Curve

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 004949239-01 P=651.905642 Days $T_0=199.354075$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004949239-01 P=651.905642 Days $T_0=199.354075$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

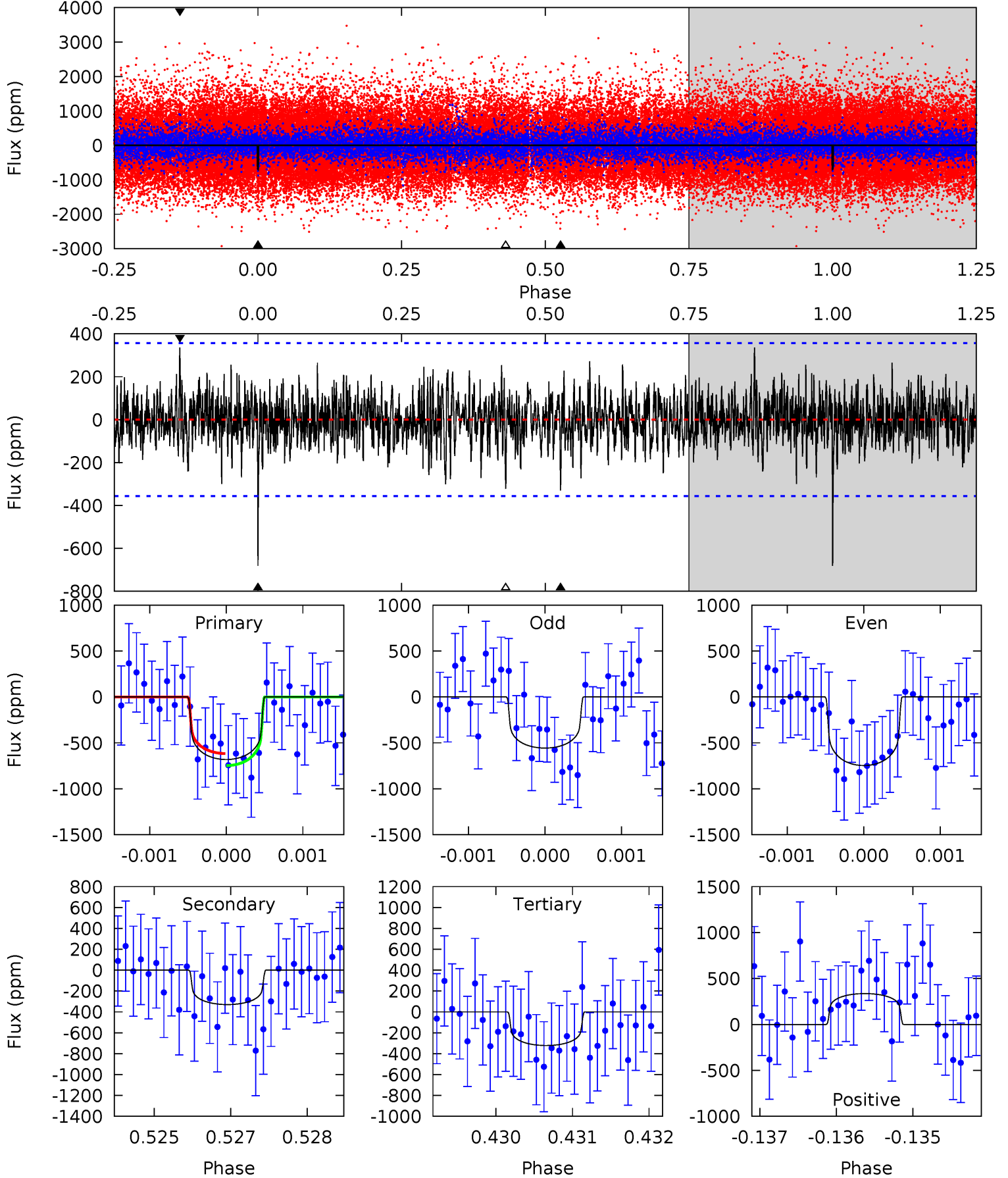
TCE 004949239-01 P=651.919109 Days $T_0=199.341970$ (BKJD)



DV Model-Shift Uniqueness Test

004949239-01, P = 651.905642 Days, E = 199.354075 Days

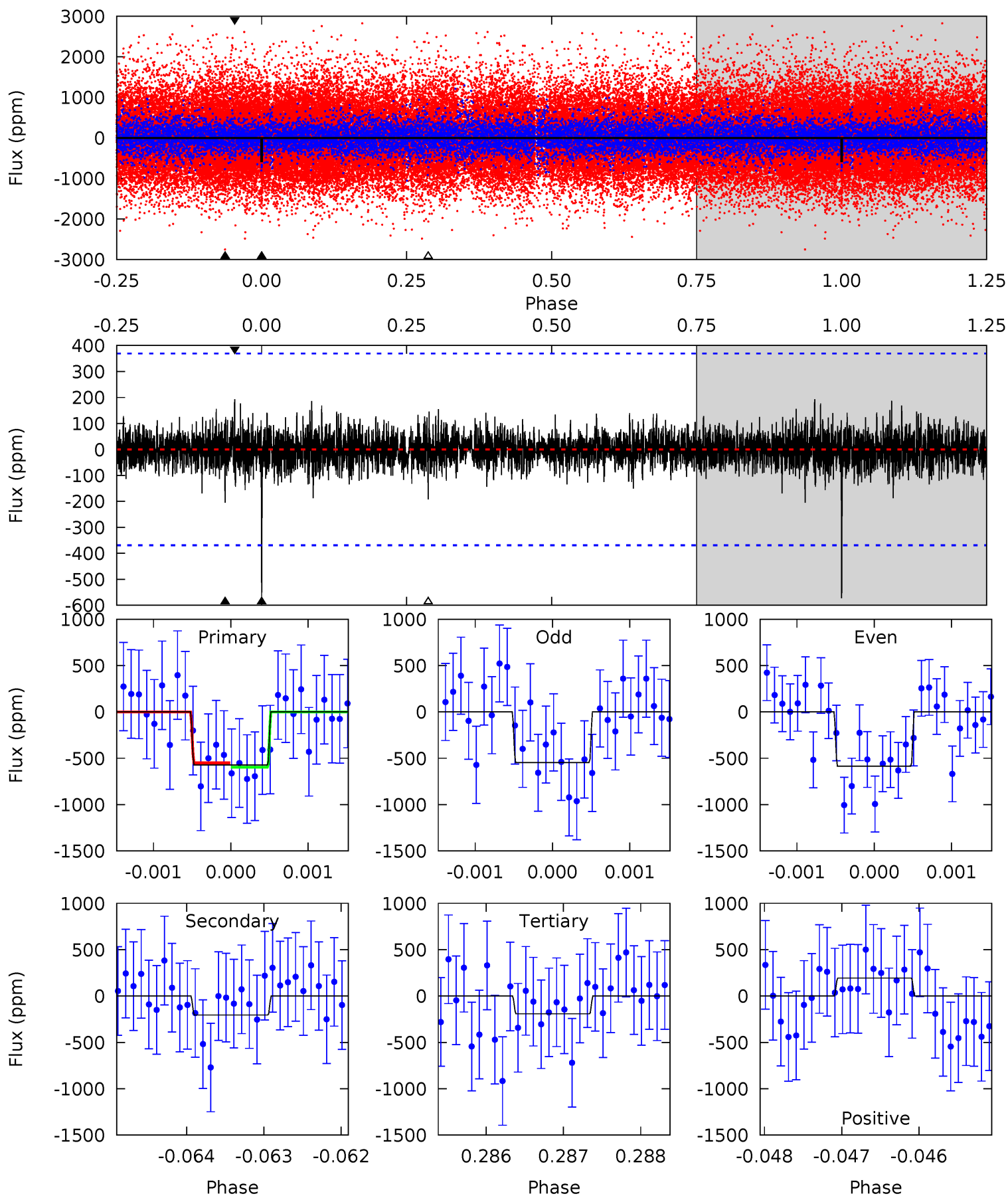
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.4	5.03	4.91	5.12	5.44	3.27	1.35	5.48	5.27	0.12	-0.09	1.39	1.06	0.33	1.00



Alt Model-Shift Uniqueness Test

004949239-01, P = 651.919109 Days, E = 199.341970 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.46	3.03	2.84	2.86	5.46	3.30	0.65	5.62	5.60	0.19	0.17	0.28	1.05	0.25	0.34



Stellar Parameters For KIC 004949239

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6046^{+189}_{-210}	$4.486^{+0.048}_{-0.192}$	$-0.080^{+0.250}_{-0.300}$	$0.972^{+0.285}_{-0.095}$	$1.053^{+0.126}_{-0.139}$	$1.615^{+0.421}_{-0.810}$
	+3%/-3%	+1%/-4%	+312%/-375%	+29%/-10%	+12%/-13%	+26%/-50%
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 004949239-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-330 ± 66	$2.94^{+1.37}_{-1.19}$	307^{+20}_{-15}	5103^{+1382}_{-709}	46556^{+82168}_{-24996}
Alt.	-205 ± 68	$2.66^{+1.20}_{-1.16}$	307^{+20}_{-14}	4755^{+1447}_{-718}	34345^{+72610}_{-20022}

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 $A_{obs} \gg 1.0$

UKIRT Image

Declination

