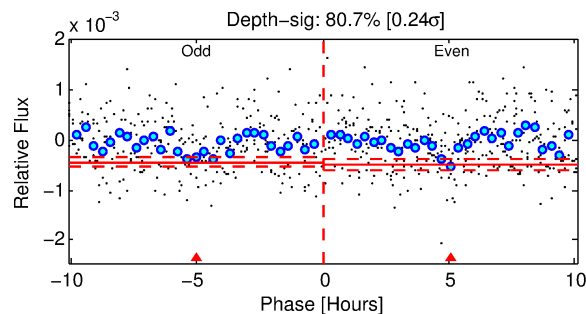
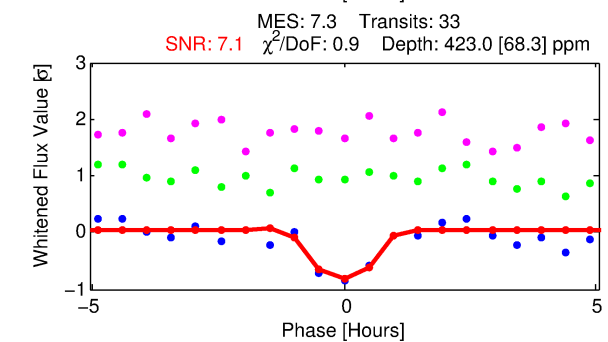
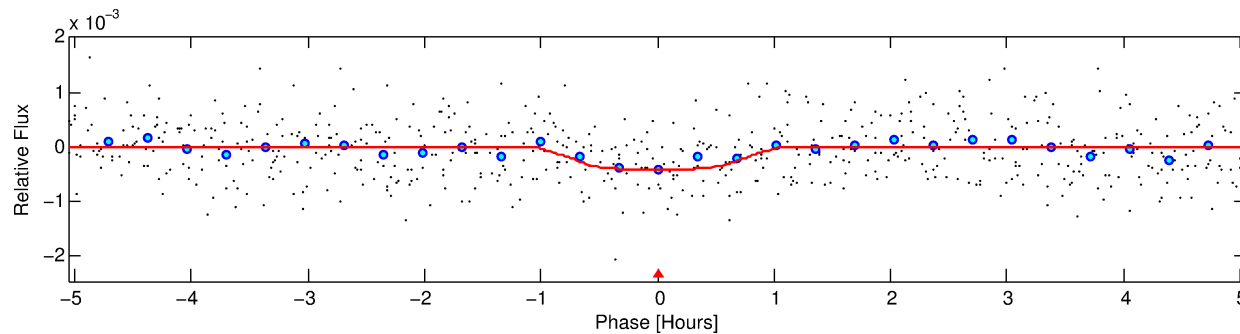
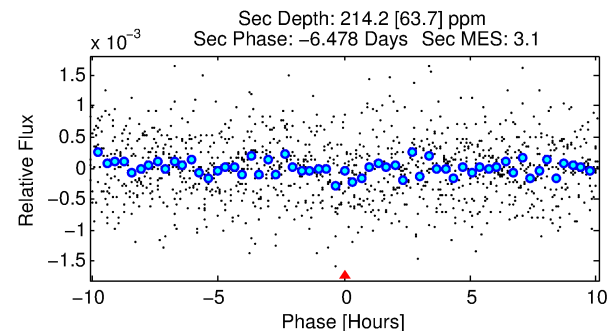
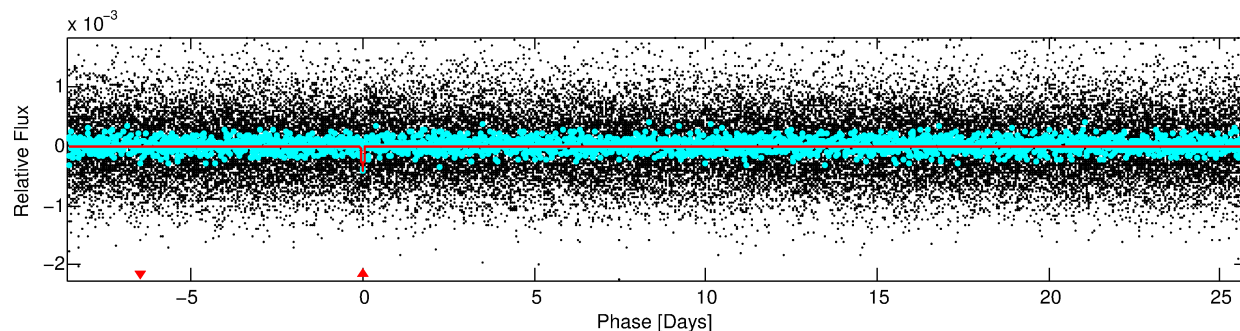
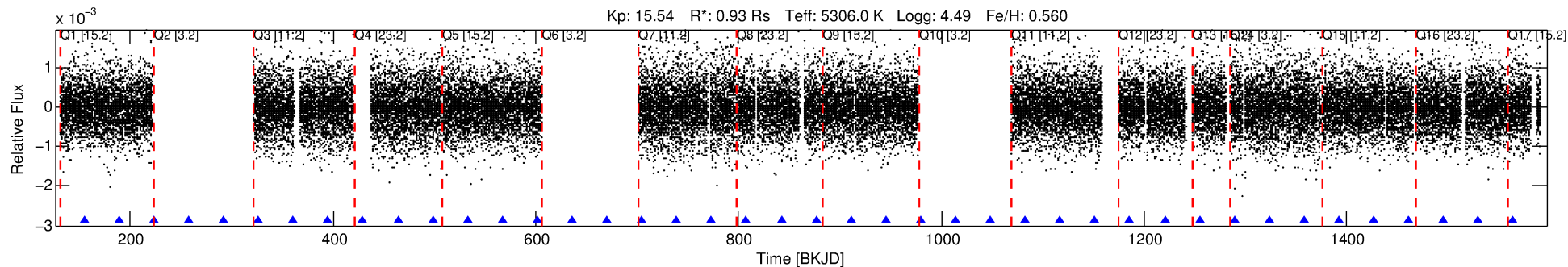


**WARNING: THIS DATA IS  
SIMULATED, NOT OBSERVED**

## DV One-Page Summary

KIC: 5026303 Candidate: 1 of 1 Period: 34.379 d

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



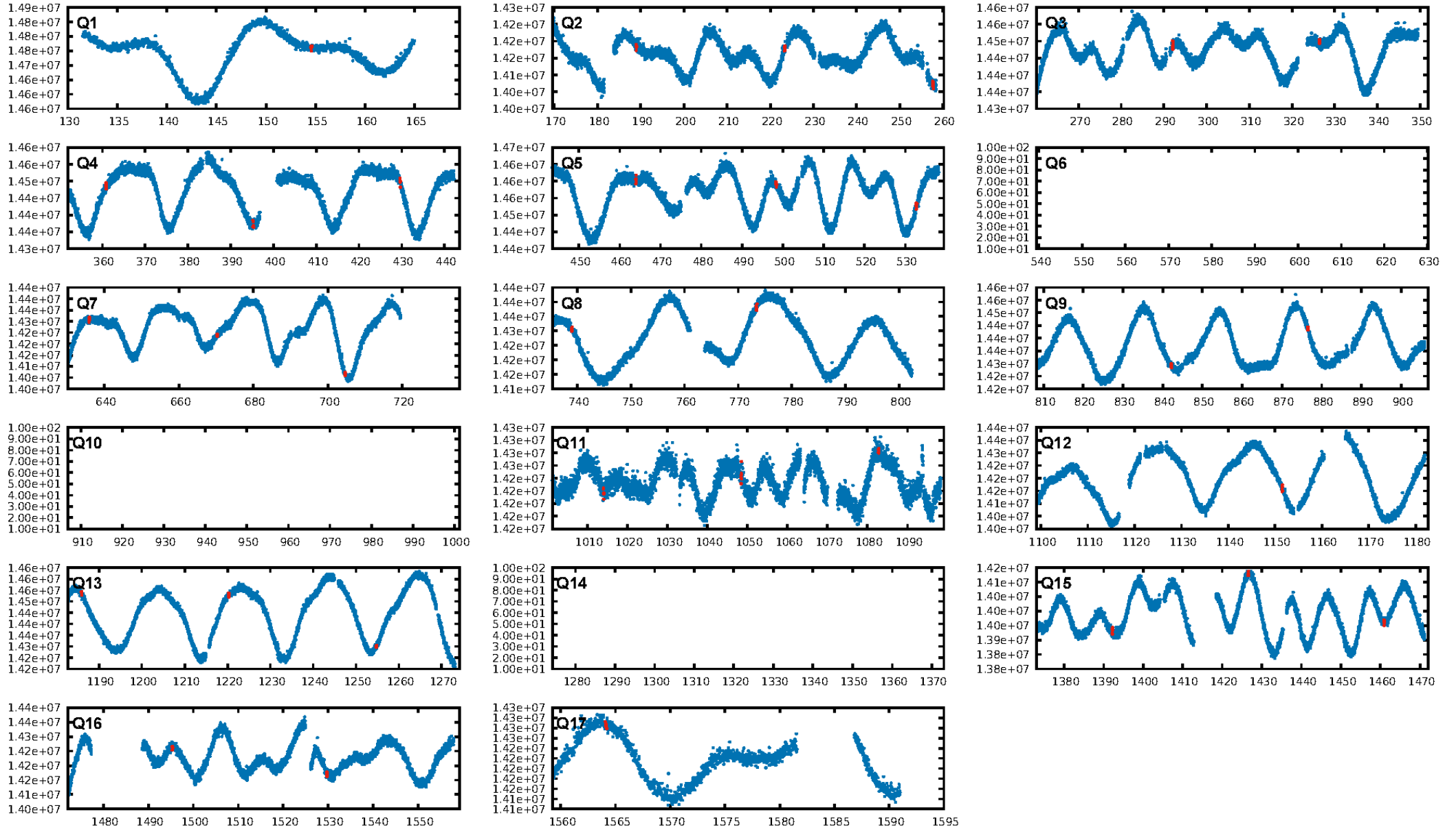
### DV Fit Results:

Period = 34.37897 [0.00031] d  
Epoch = 154.5866 [0.0080] BKJD  
Rp/R\* = 0.0185 [0.0469]  
a/R\* = 153.02 [1334.95]  
b = 0.27 [30.27]  
Seff = 14.45 [4.29]  
Teq = 497 [37] K  
Rp = 1.87 [4.76] Re  
a = 0.2053 [0.0360] AU  
Ag = 1414.87 [7187.53] [0.20σ]  
Teffp = 4715 [5981] K [0.71σ]

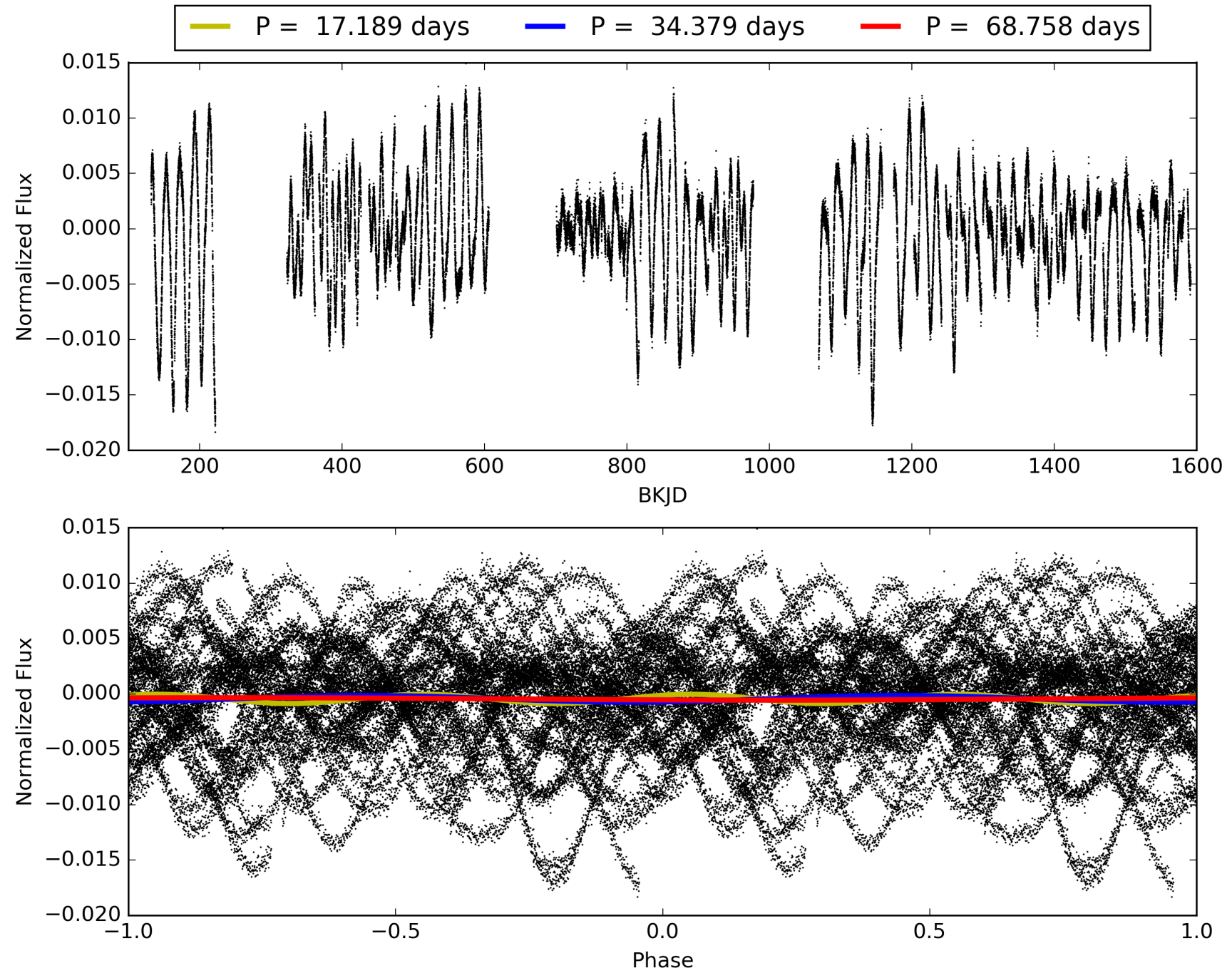
### DV Diagnostic Results:

ShortPeriod-sig: N/A  
LongPeriod-sig: N/A  
ModelChiSquare2-sig: 95.7%  
ModelChiSquareGof-sig: 100.0%  
Bootstrap-pfa: 7.76e-13  
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 [0]  
KicOffset-st: 0/0/0/0 [0]  
DiffImageQuality-fgm: N/A  
DiffImageOverlap-fno: N/A

# TCE 005026303-01, PDC Light Curves

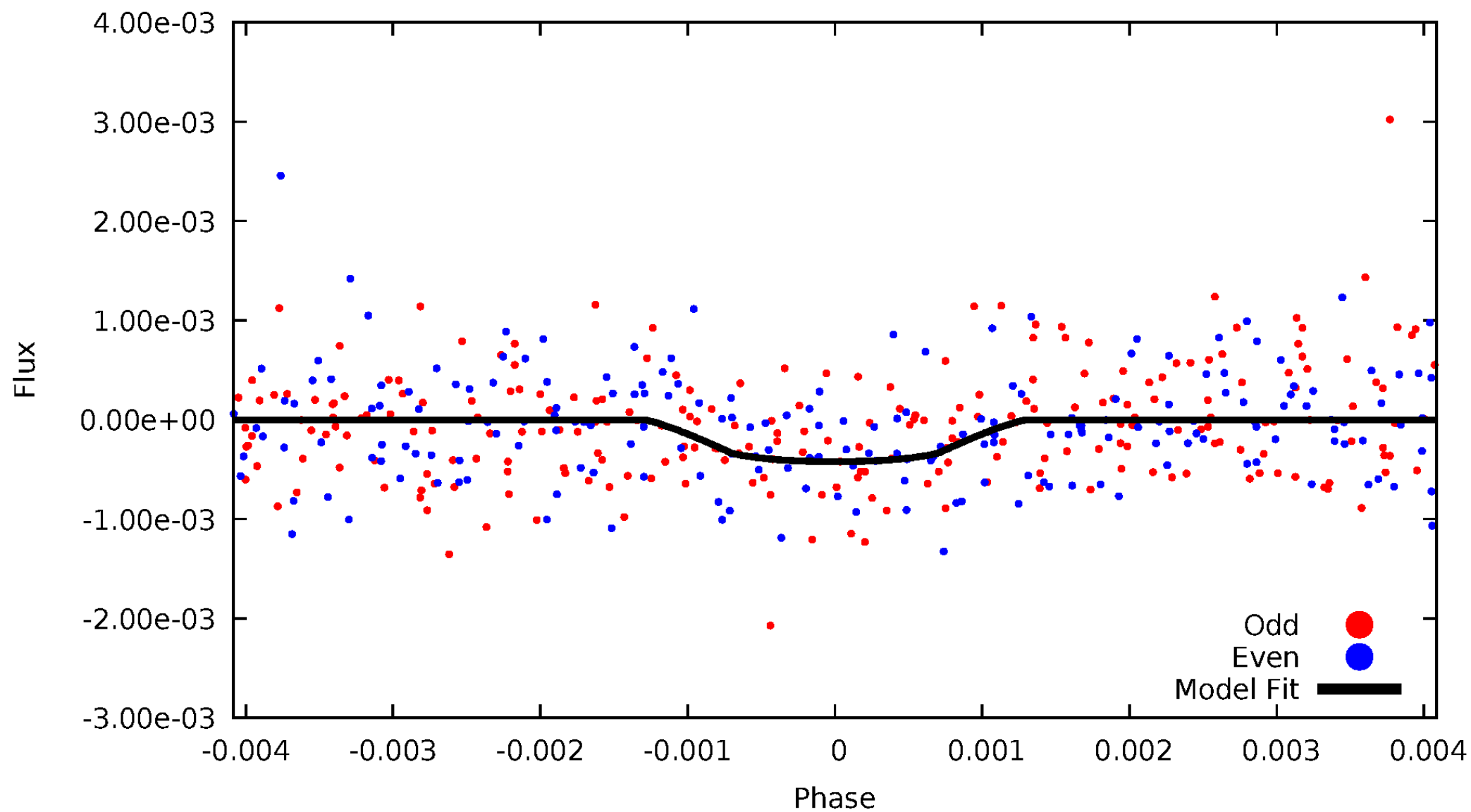


TCE 005026303-01



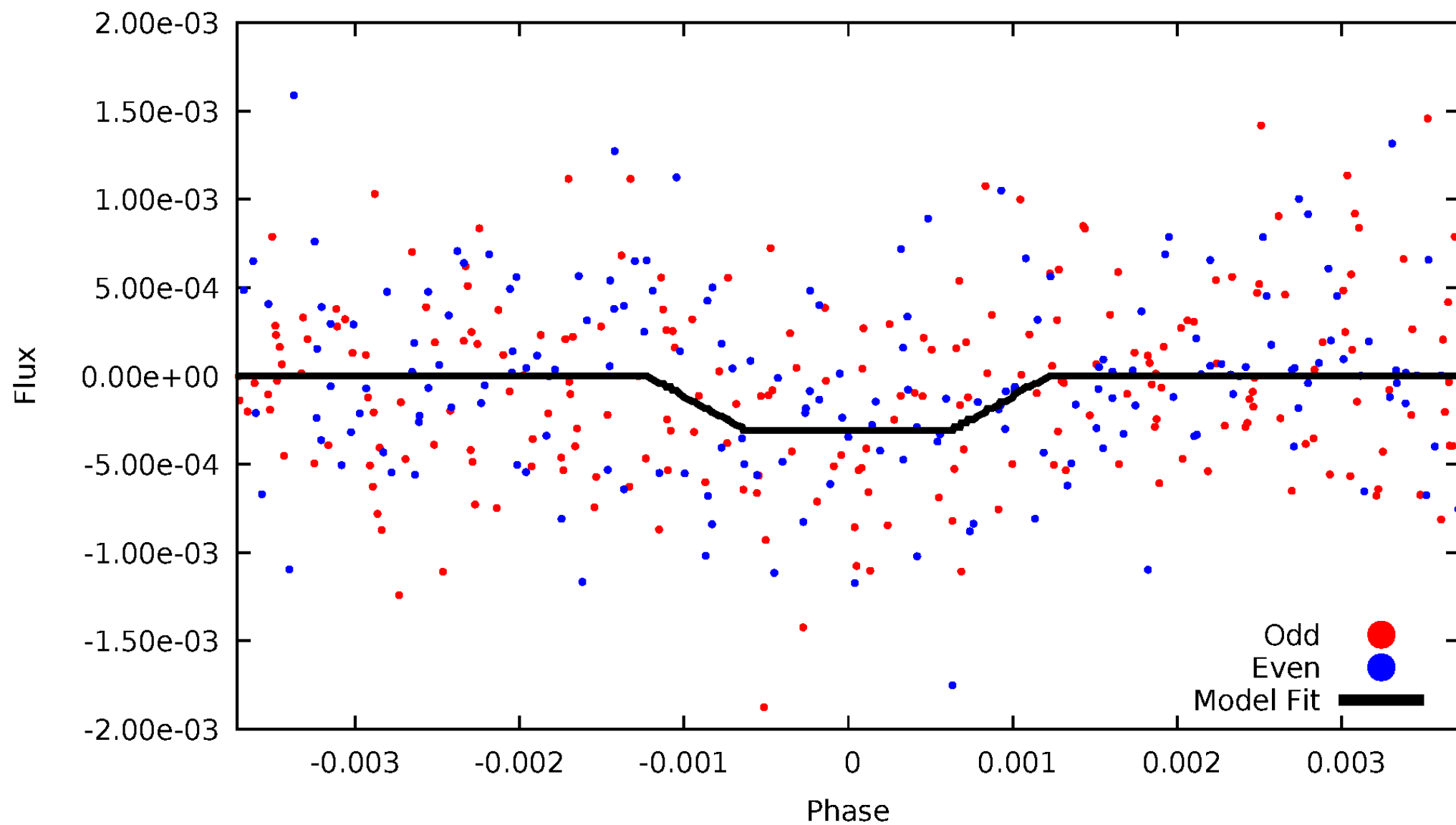
# DV Odd/Even

TCE 005026303-01



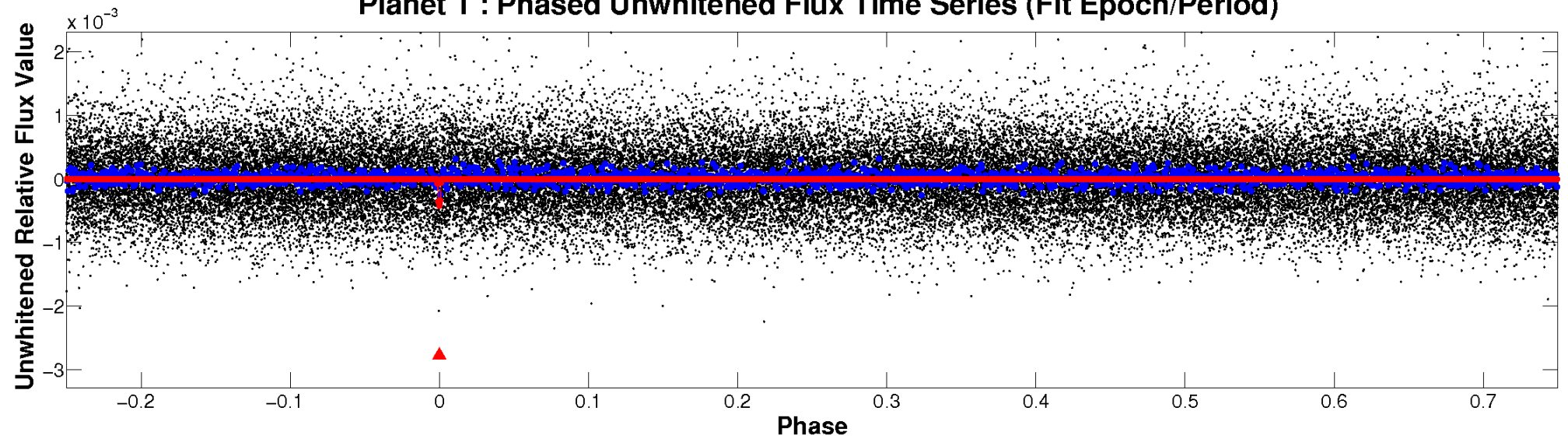
# ALT Odd/Even

TCE 005026303-01

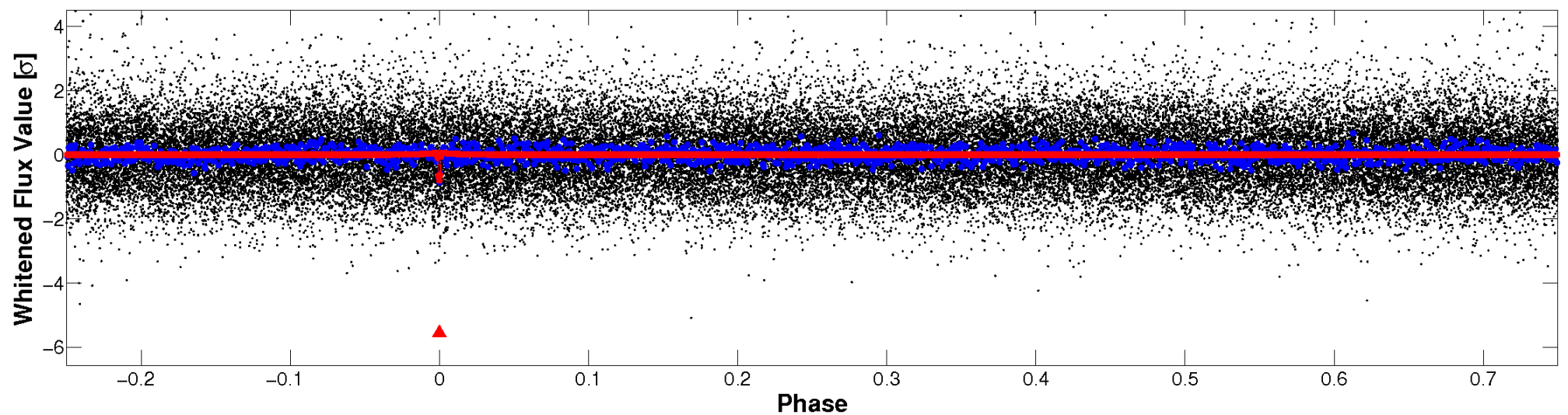


# Non-Whitened Vs. Whitened Light Curve

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



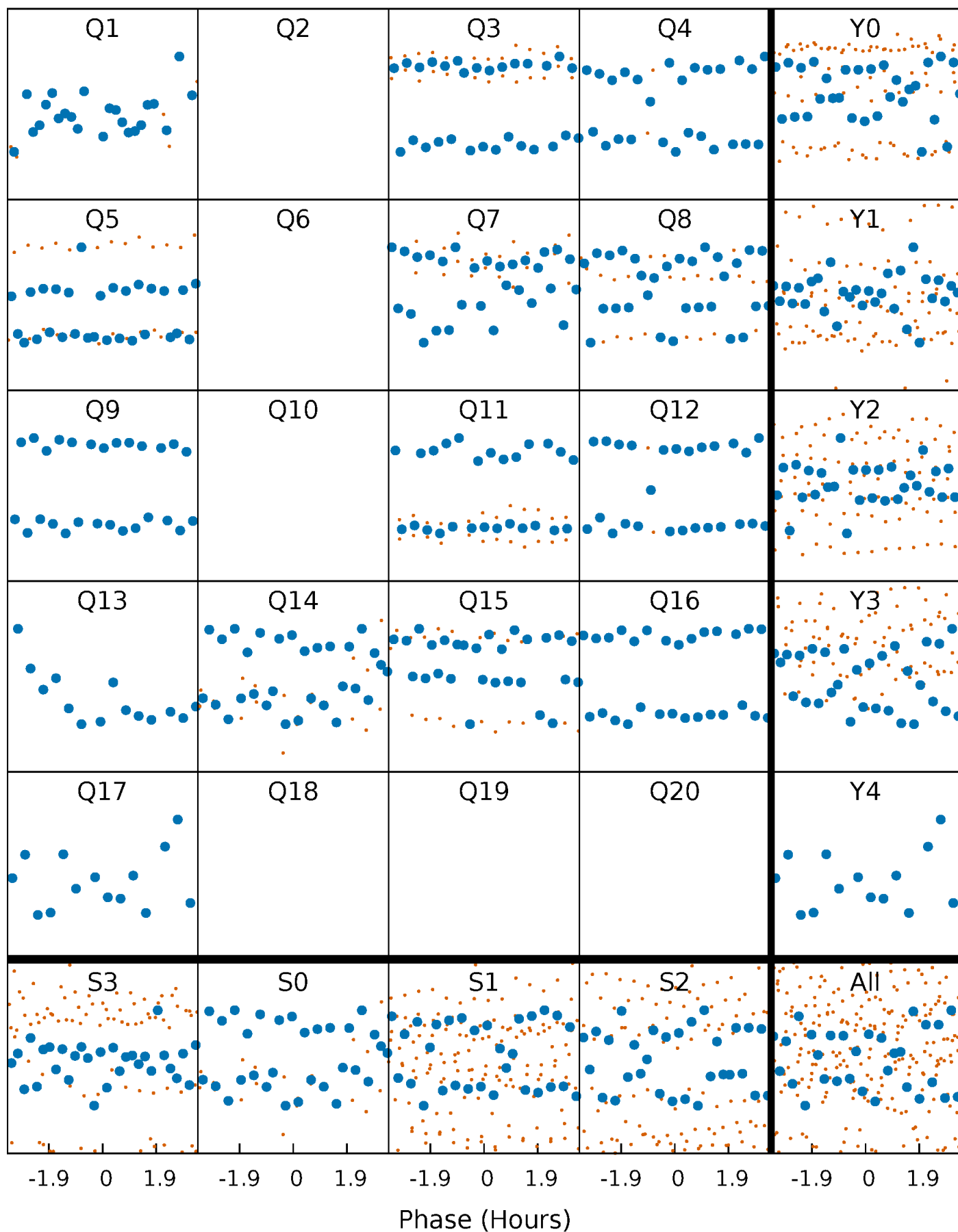
**Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)**





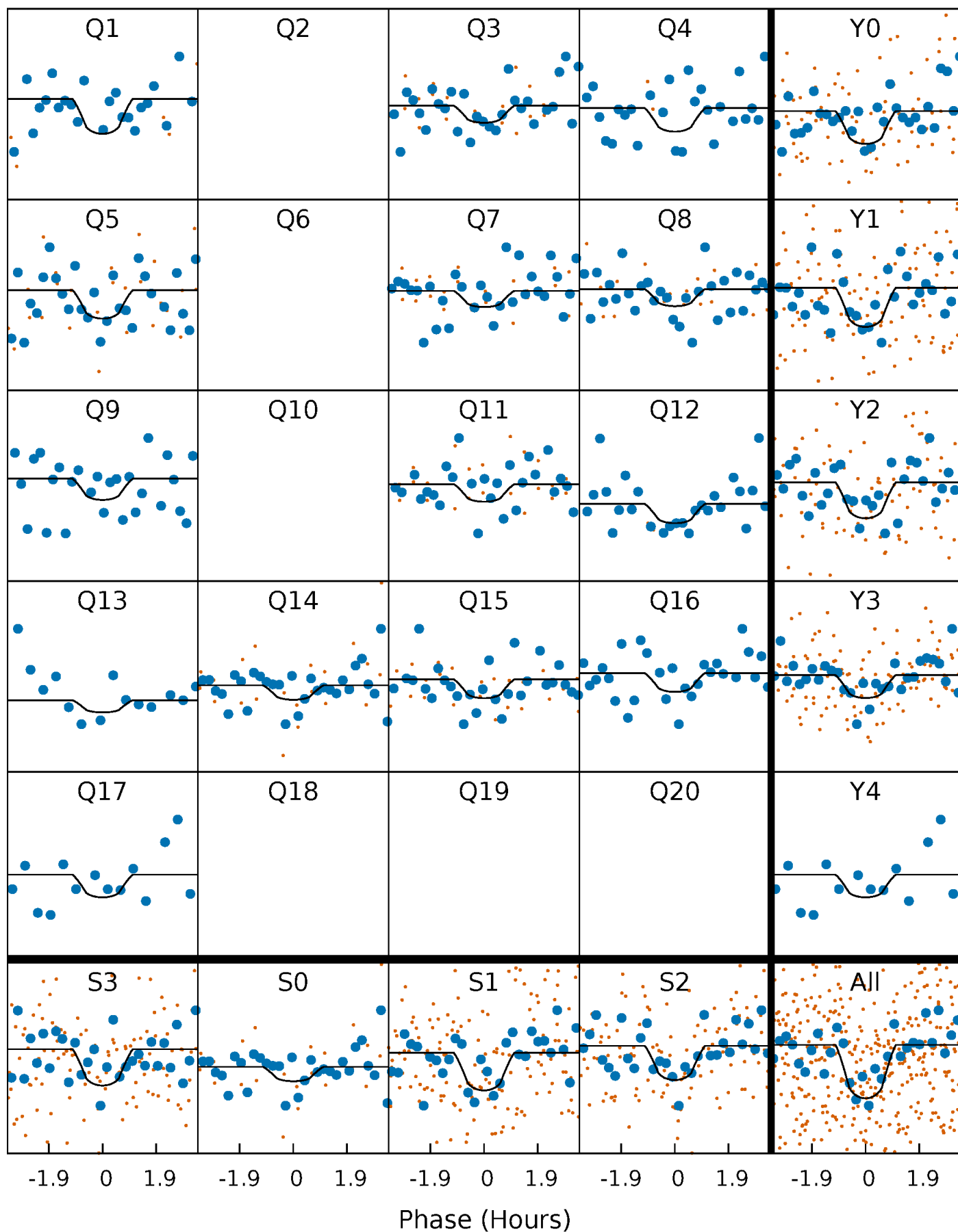
# PDC Quarter-Phased Transit Curves

TCE 005026303-01 P= 34.378965 Days  $T_0=154.586571$  (BKJD)



# DV Quarter-Phased Transit Curves

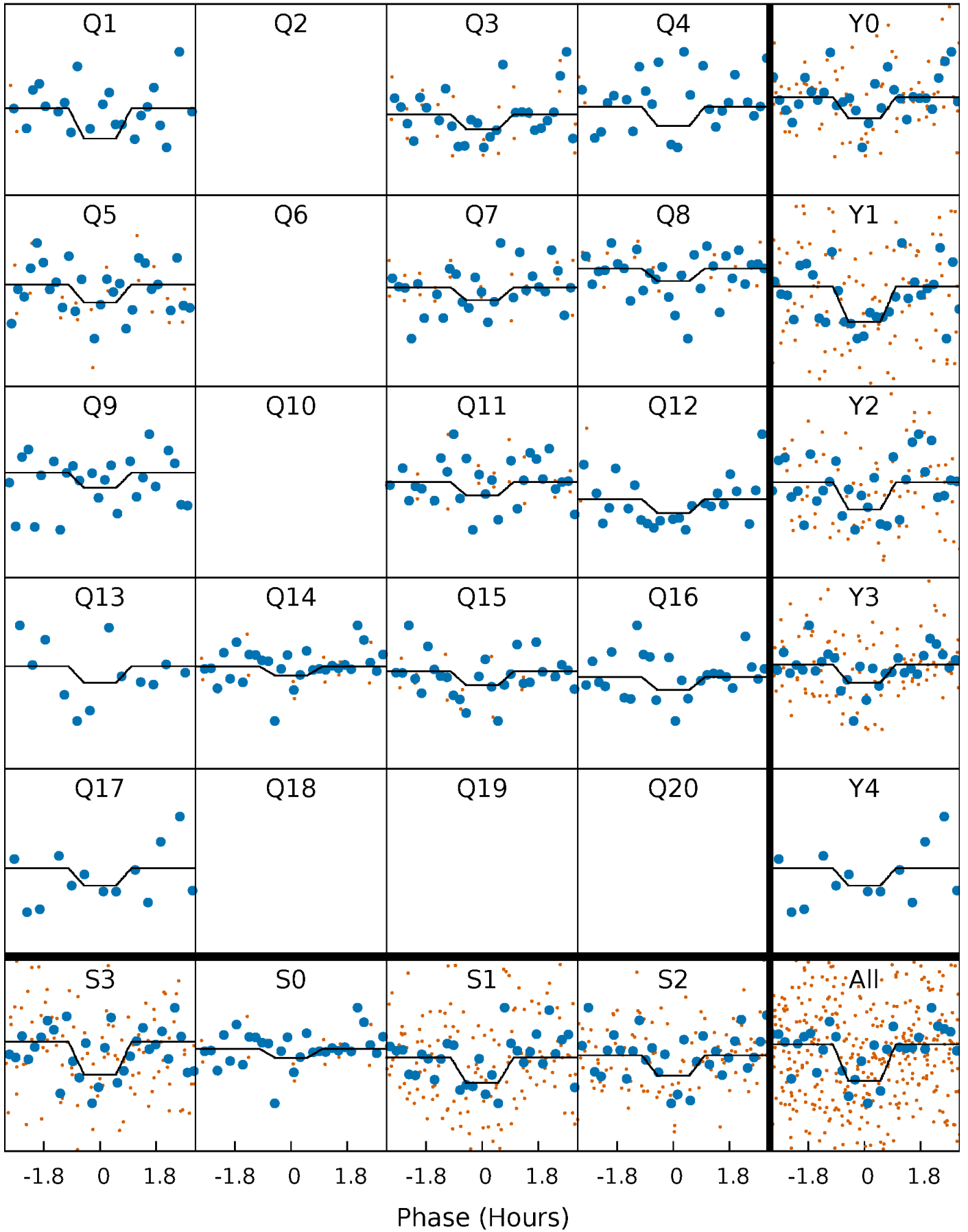
TCE 005026303-01 P= 34.378965 Days  $T_0=154.586571$  (BKJD)





# Alt. Detrend Quarter-Phased Transit Curves

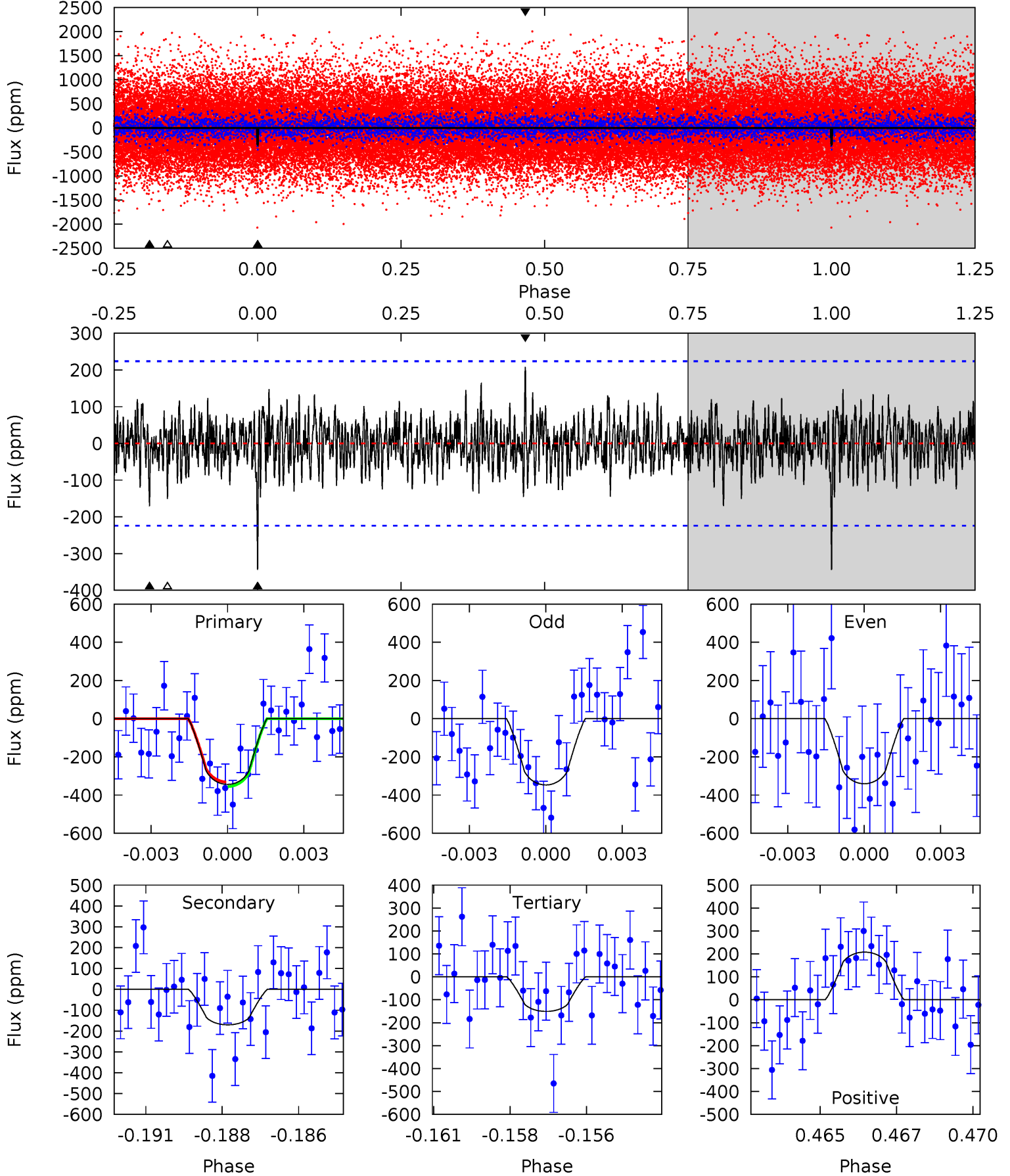
TCE 005026303-01 P= 34.378884 Days  $T_0=154.591821$  (BKJD)



# DV Model-Shift Uniqueness Test

005026303-01, P = 34.378965 Days, E = 120.207606 Days

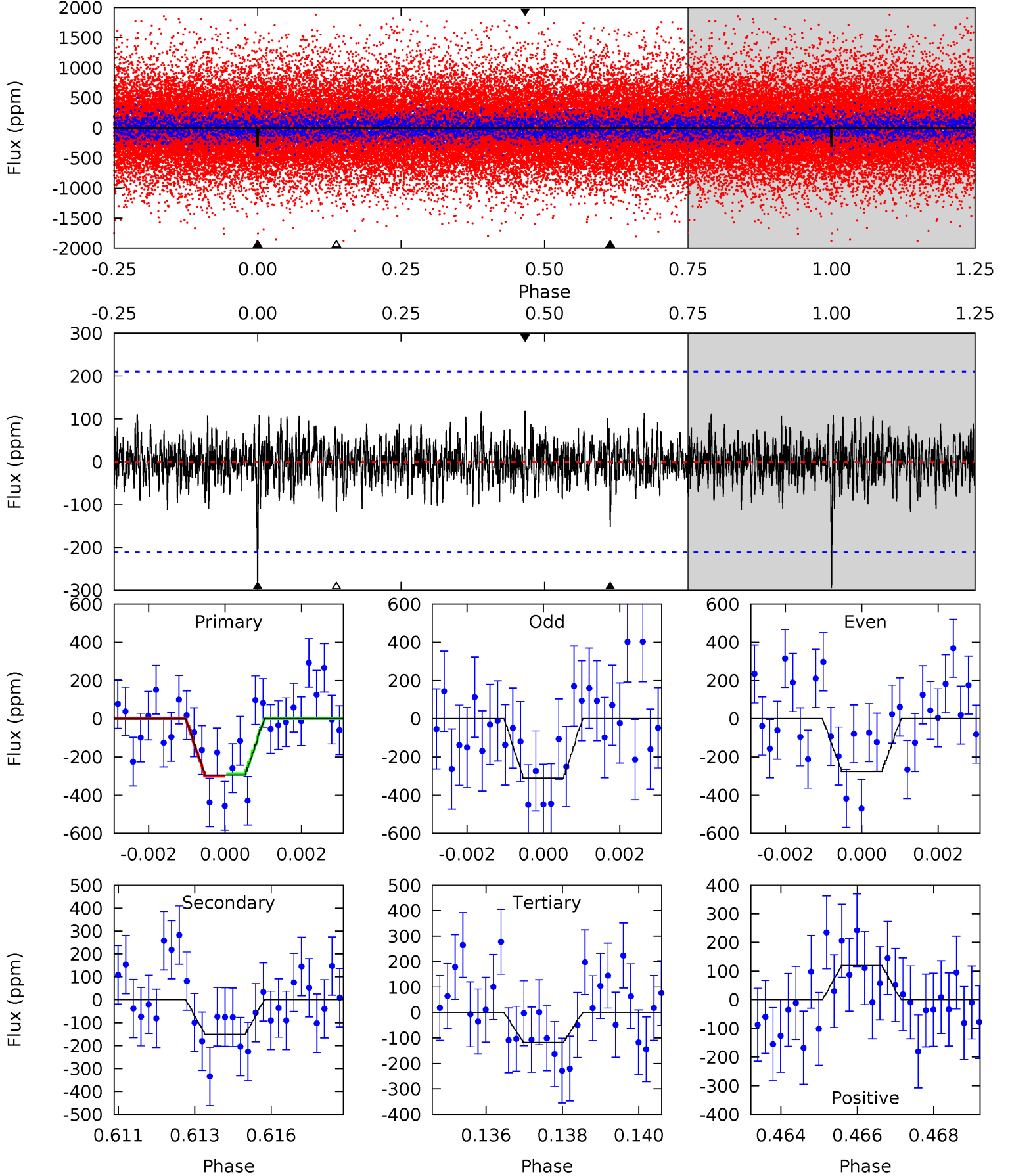
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.11	4.02	3.56	4.90	5.29	3.02	1.20	4.56	3.21	0.46	-0.88	0.08	1.27	0.38	0.28



# Alt Model-Shift Uniqueness Test

005026303-01,  $P = 34.378884$  Days,  $E = 120.212937$  Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.40	3.80	2.93	3.01	5.30	3.04	0.93	4.47	4.39	0.87	0.79	0.44	1.04	0.29	0.15



### Stellar Parameters For KIC 005026303

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$5306^{+175}_{-159}$	$4.494^{+0.050}_{-0.150}$	$0.560^{+0.050}_{-0.300}$	$0.926^{+0.184}_{-0.085}$	$0.974^{+0.055}_{-0.086}$	$1.729^{+0.418}_{-0.726}$
	+3%/-3%	+1%/-3%	+9%/-54%	+20%/-9%	+6%/-9%	+24%/-42%
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 005026303-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	$A_{\text{obs}}$
DV	$-170 \pm 42$	$3.85^{+4.08}_{-2.55}$	$705^{+38}_{-29}$	$3569^{+1796}_{-679}$	$249^{+1941}_{-190}$
Alt.	$-151 \pm 40$	$4.11^{+4.22}_{-2.71}$	$707^{+40}_{-29}$	$3489^{+1663}_{-670}$	$216^{+1452}_{-163}$

$T_{\text{max}}$  = Theoretical Maximum Planetary Temperature

$T_{\text{obs}}$  = Observed Planetary Temperature (Assuming  $A=0.3$ )

$A_{\text{obs}}$  = 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  $A_{\text{obs}} \gg 1.0$

UKIRT Image

Declination

