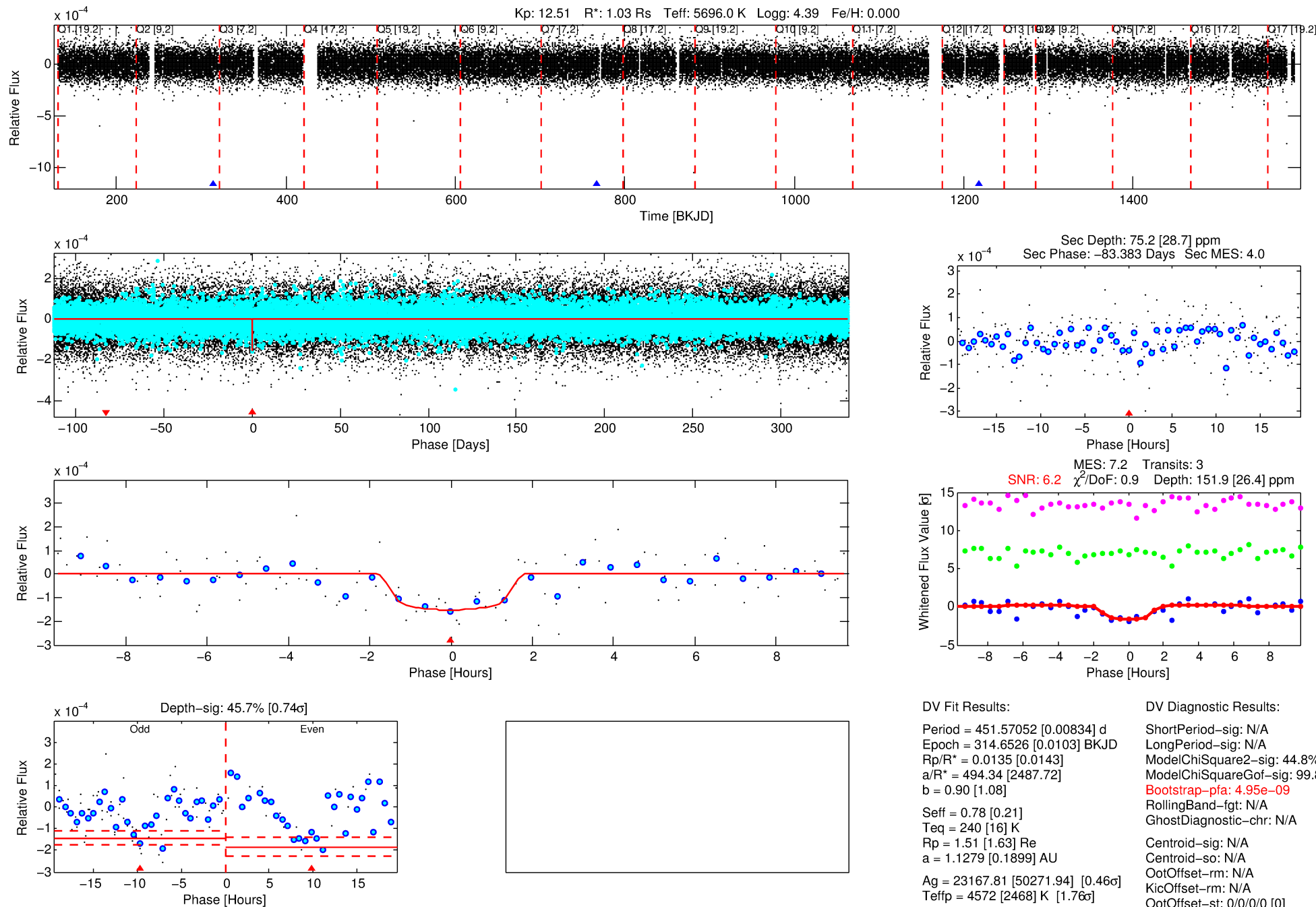


**WARNING: THIS DATA IS  
SIMULATED, NOT OBSERVED**

## DV One-Page Summary

KIC: 7690646 Candidate: 1 of 1 Period: 451.571 d

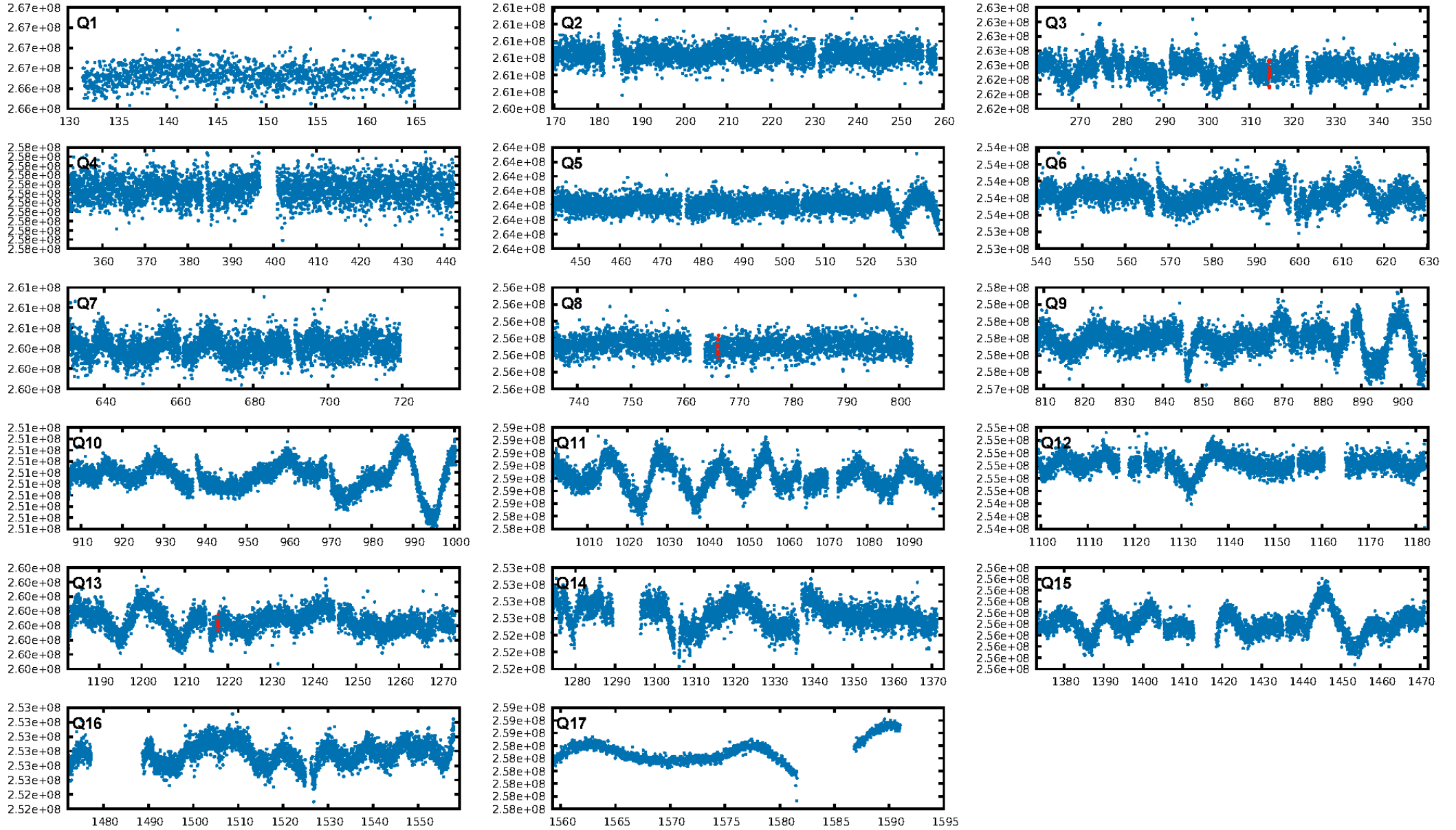
**WARNING: THIS DATA IS  
SIMULATED, NOT OBSERVED**



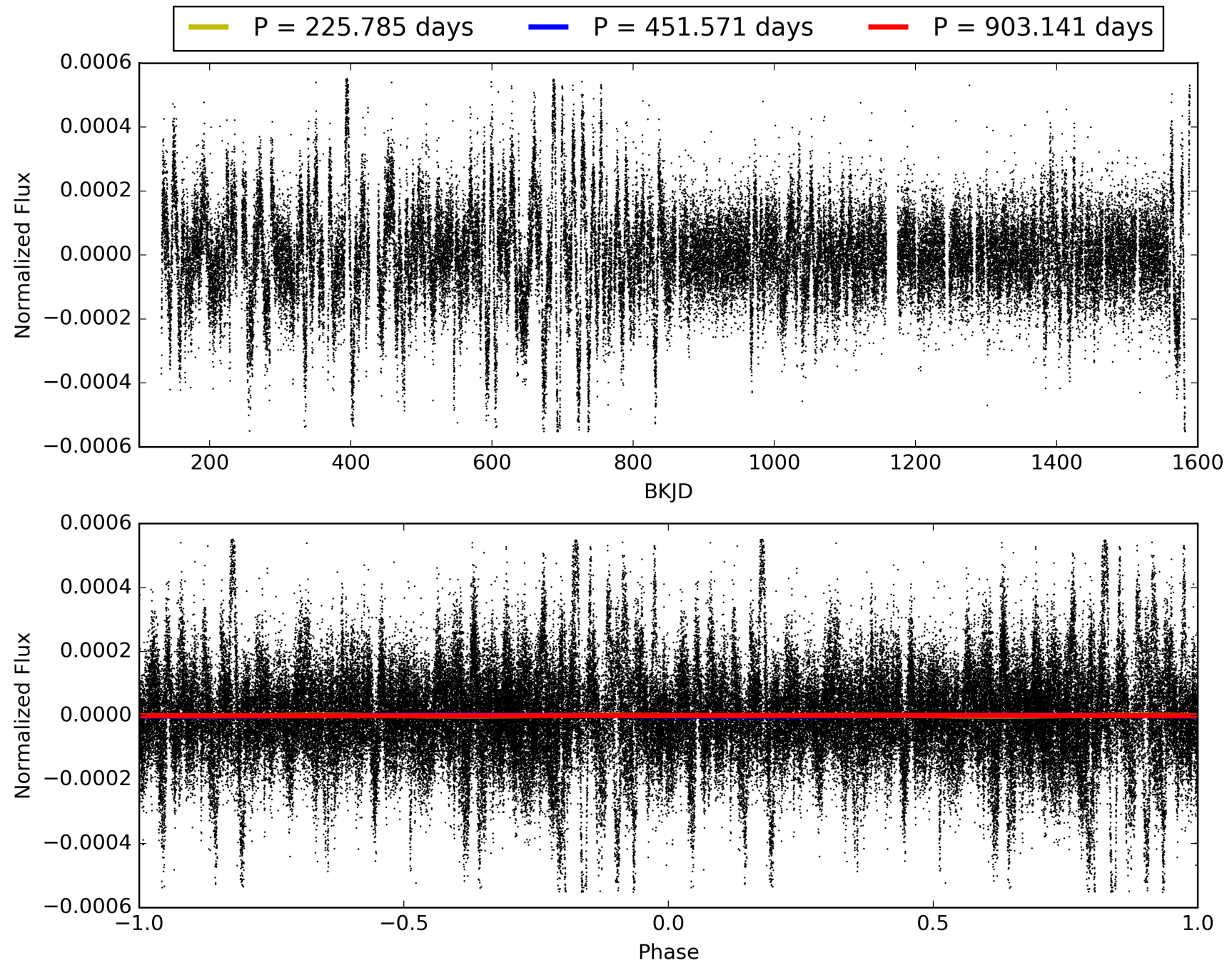
Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop-2602@61285 -- Date Generated: 02-Jun-2016 05:13:01 Z

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

# TCE 007690646-01, PDC Light Curves

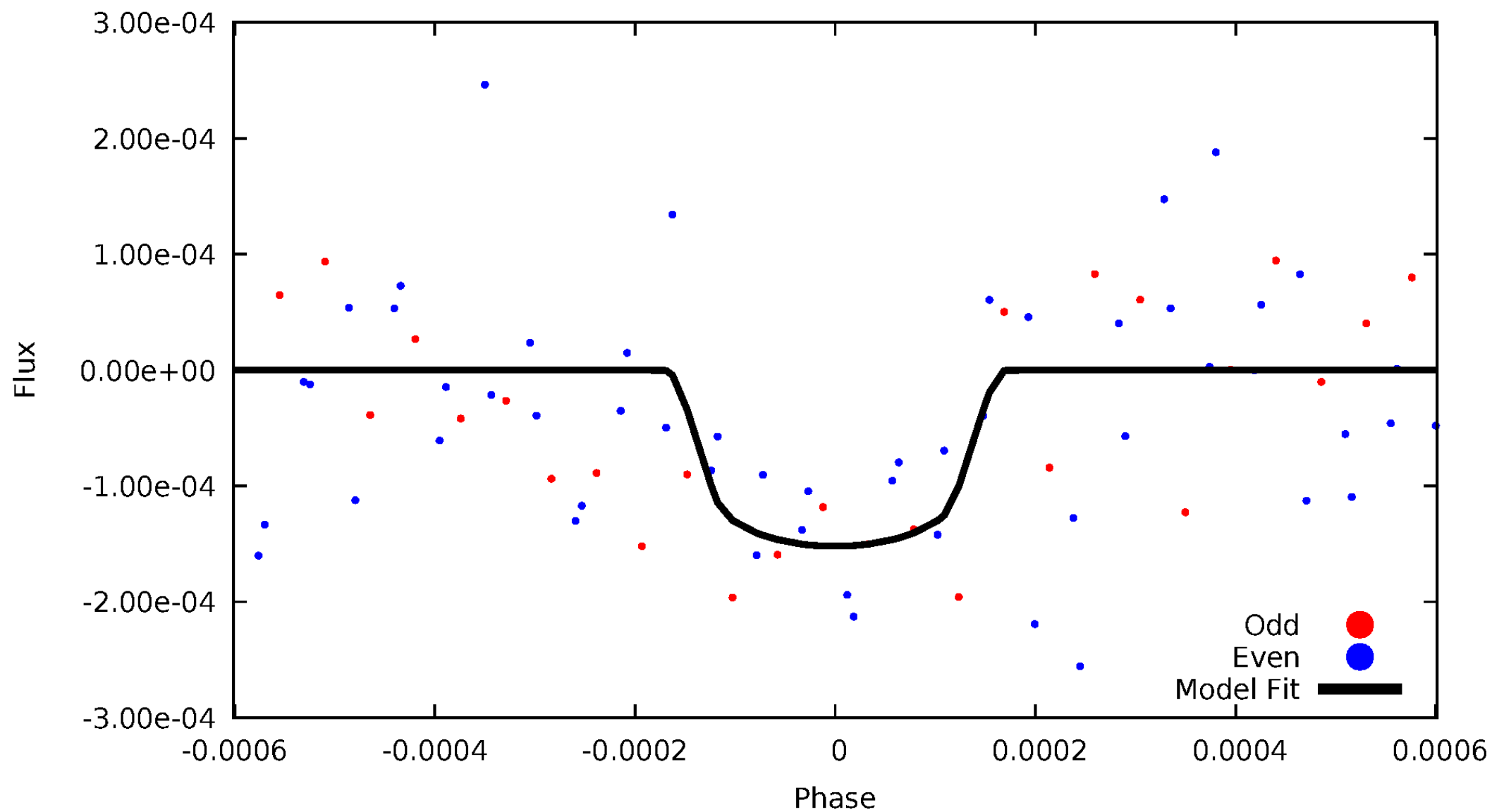


TCE 007690646-01



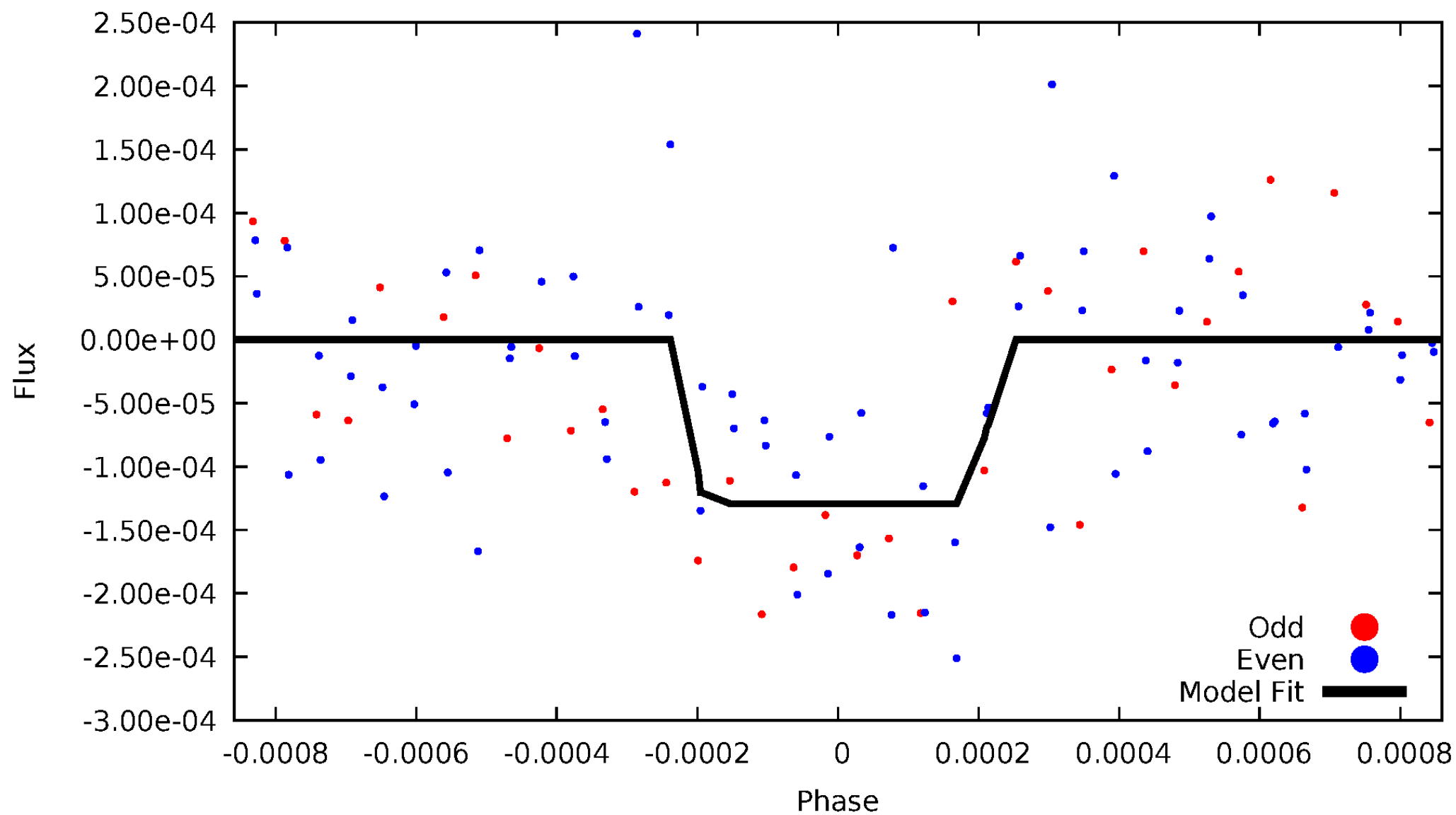
# DV Odd/Even

TCE 007690646-01



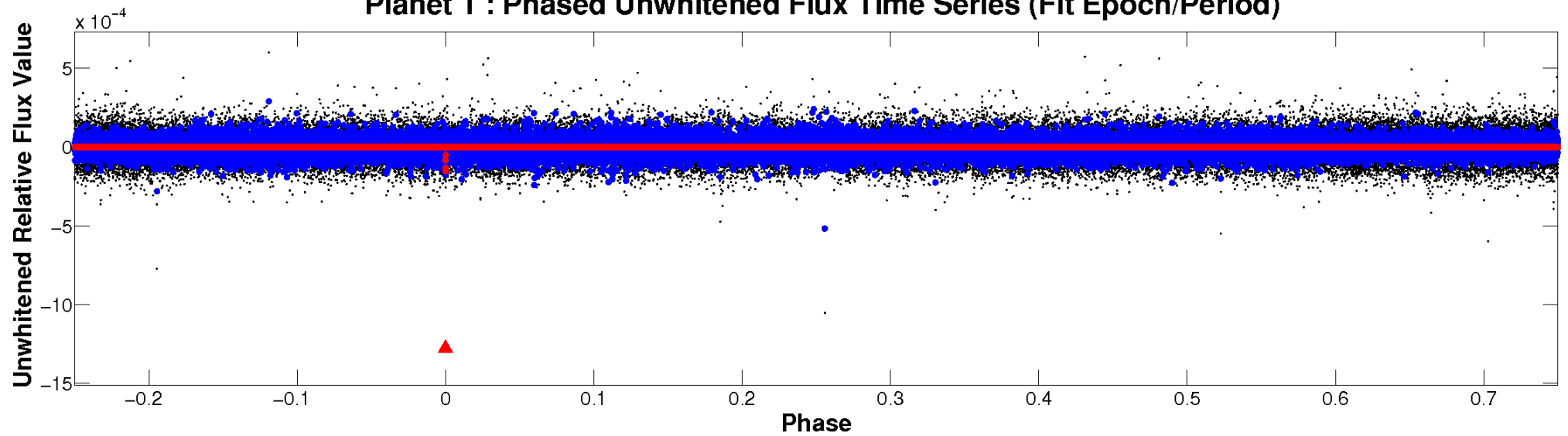
# ALT Odd/Even

TCE 007690646-01

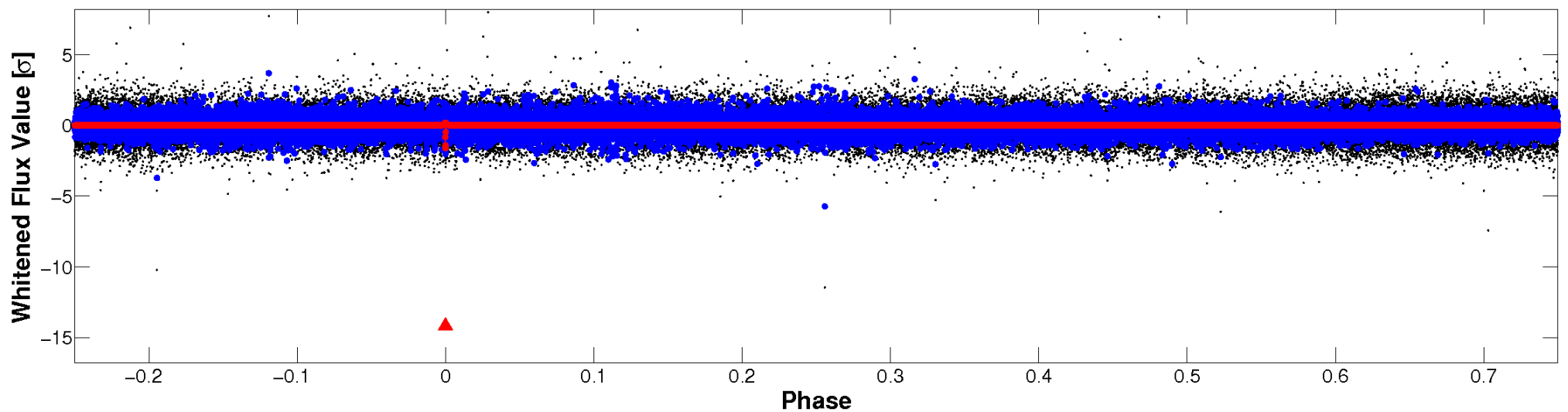


# Non-Whitened Vs. Whitened Light Curve

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

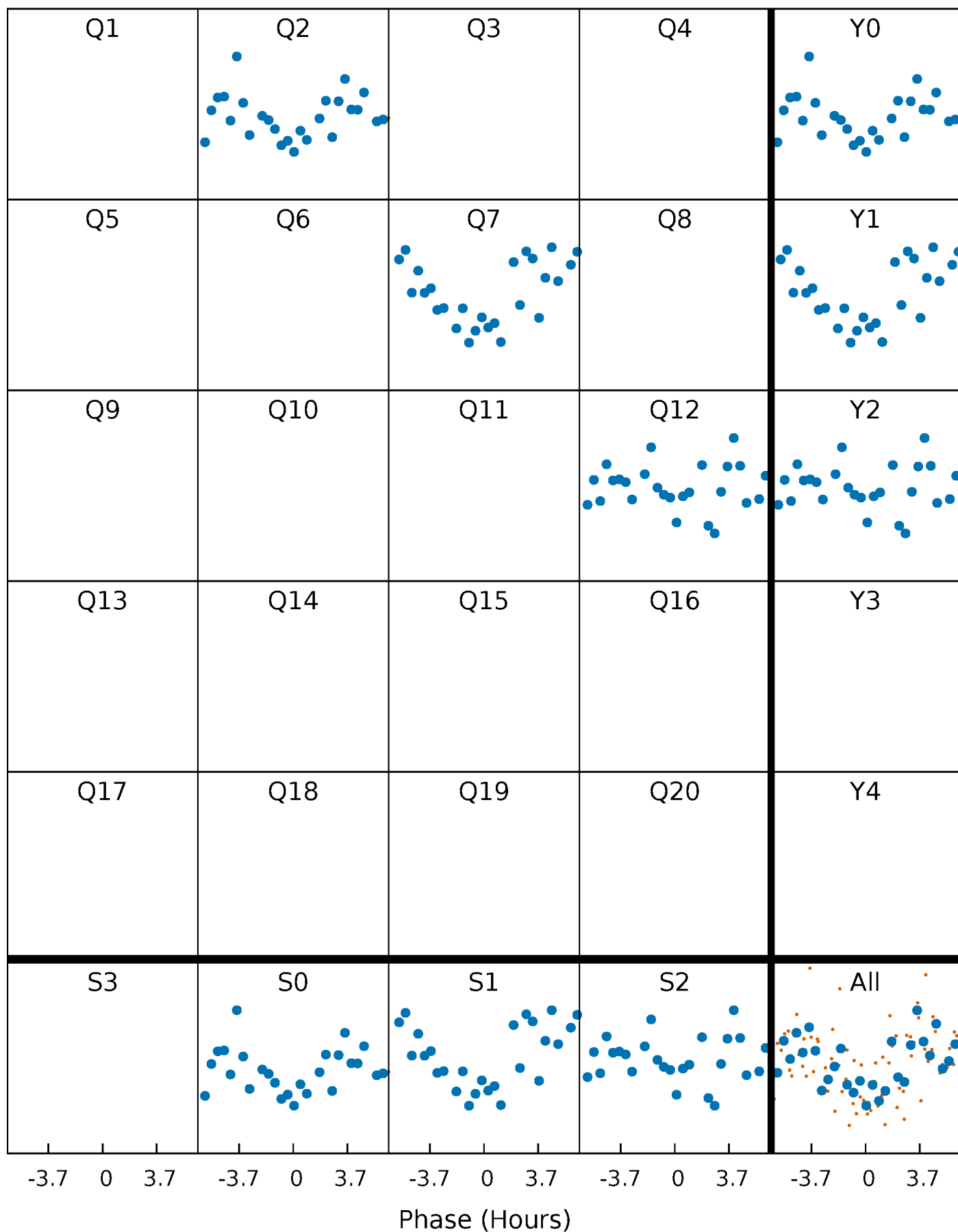


**Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)**



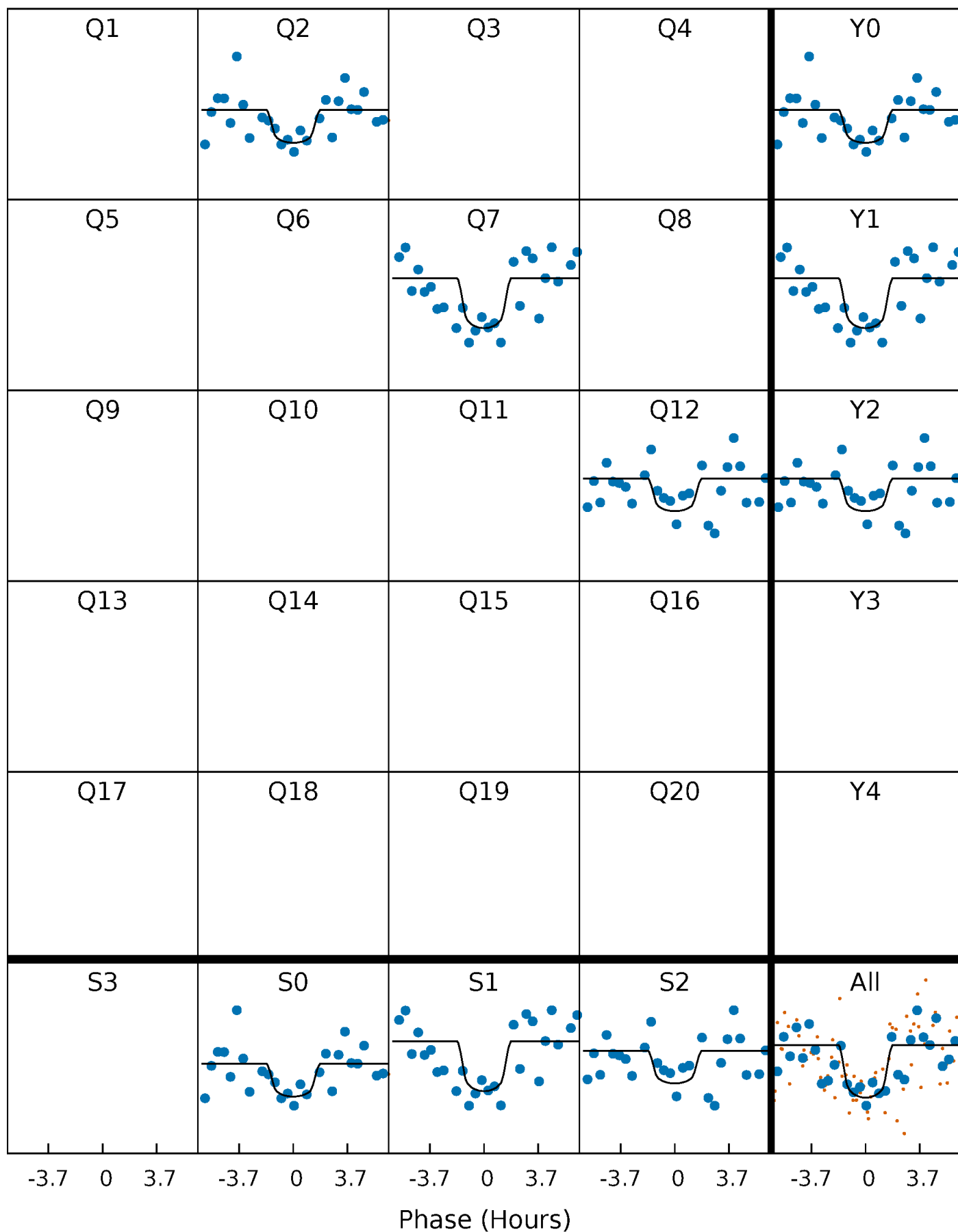
# PDC Quarter-Phased Transit Curves

TCE 007690646-01 P=451.570521 Days  $T_0=314.652573$  (BKJD)



# DV Quarter-Phased Transit Curves

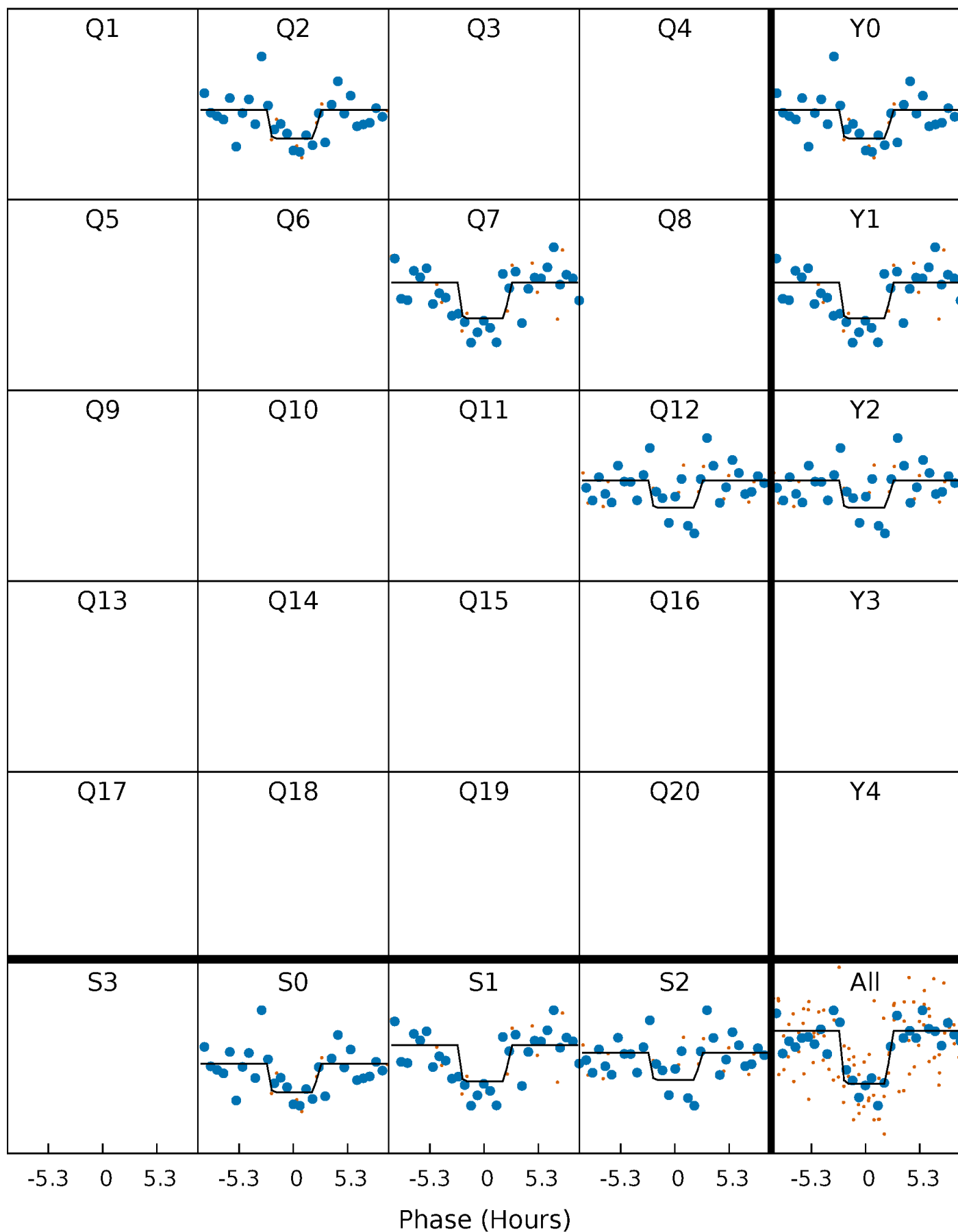
TCE 007690646-01 P=451.570521 Days  $T_0=314.652573$  (BKJD)





# Alt. Detrend Quarter-Phased Transit Curves

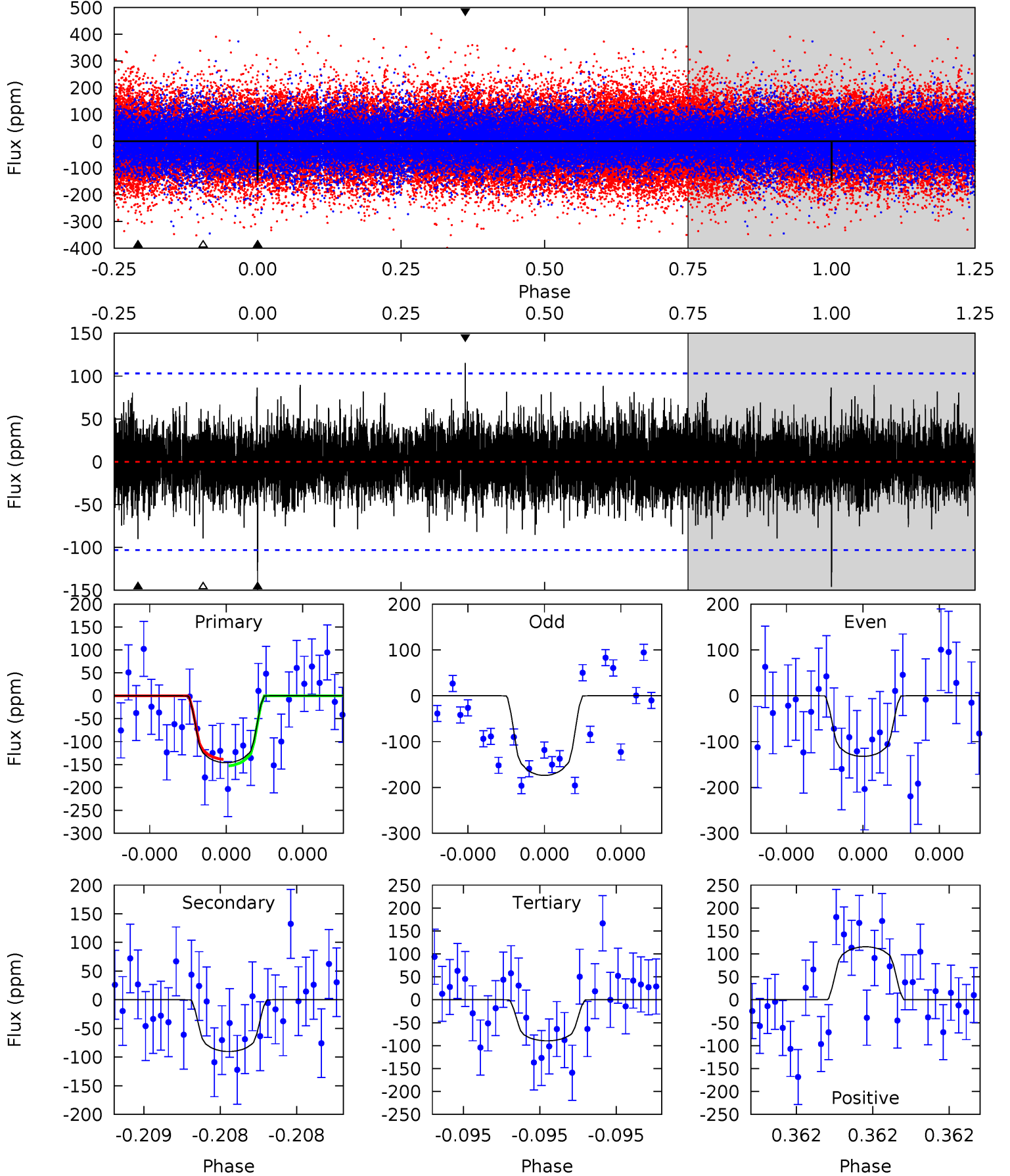
TCE 007690646-01 P=451.602109 Days  $T_0=314.623664$  (BKJD)



# DV Model-Shift Uniqueness Test

007690646-01, P = 451.570521 Days, E = 314.652573 Days

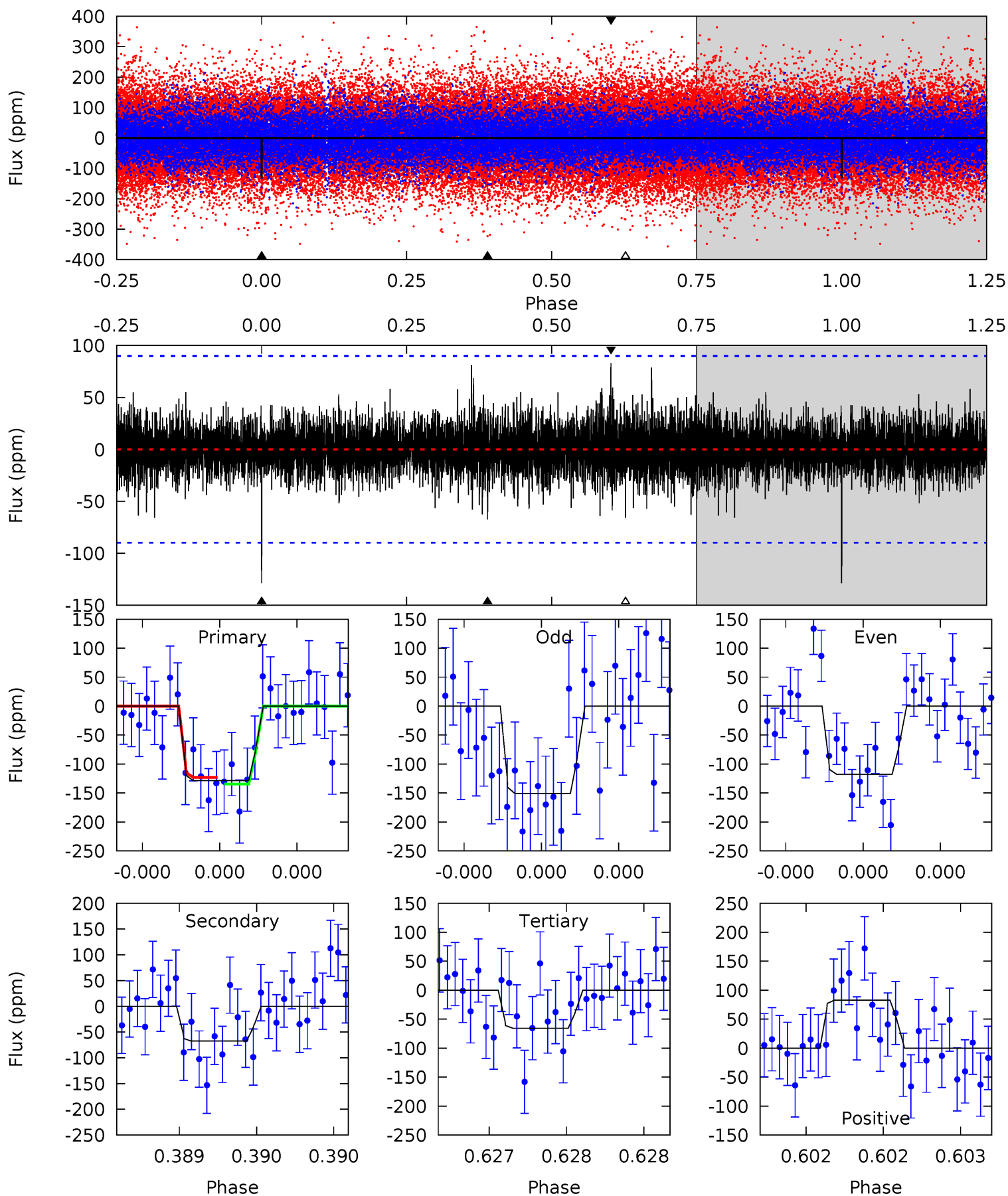
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.99	4.94	4.90	6.32	5.64	3.58	1.27	3.09	1.67	0.04	-1.38	1.06	0.96	0.44	0.38



# Alt Model-Shift Uniqueness Test

007690646-01, P = 451.602109 Days, E = 314.623664 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
8.01	4.20	4.08	5.17	5.59	3.51	1.05	3.93	2.85	0.11	-0.97	0.97	0.97	0.39	0.35



### Stellar Parameters For KIC 007690646

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R$ ( $R_{\odot}$ )	$M(M_{\odot})$	$p_{\star}$ ( $\text{g}\cdot\text{cm}^{-3}$ )
	$5696^{+156}_{-156}$	$4.388^{+0.108}_{-0.132}$	$0.000^{+0.250}_{-0.300}$	$1.026^{+0.207}_{-0.138}$	$0.937^{+0.112}_{-0.084}$	$1.223^{+0.610}_{-0.477}$
	+3%/-3%	+2%/-3%	+inf%/-inf%	+20%/-13%	+12%/-9%	+50%/-39%
Source	PHO1	FLK73	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 007690646-01 / KOI

Detrend	Depth (ppm)	$R_p$ ( $R_{\oplus}$ )	$T_{max}$ (K)	$T_{obs}$ (K)	$A_{obs}$
DV	$-90 \pm 18$	$1.83^{+1.52}_{-1.16}$	$336^{+19}_{-16}$	$4499^{+2739}_{-855}$	$18057^{+123031}_{-12403}$
Alt.	$-67 \pm 16$	$1.70^{+1.35}_{-1.12}$	$336^{+18}_{-15}$	$4399^{+2904}_{-842}$	$16088^{+130915}_{-11356}$

$T_{max}$  = 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

