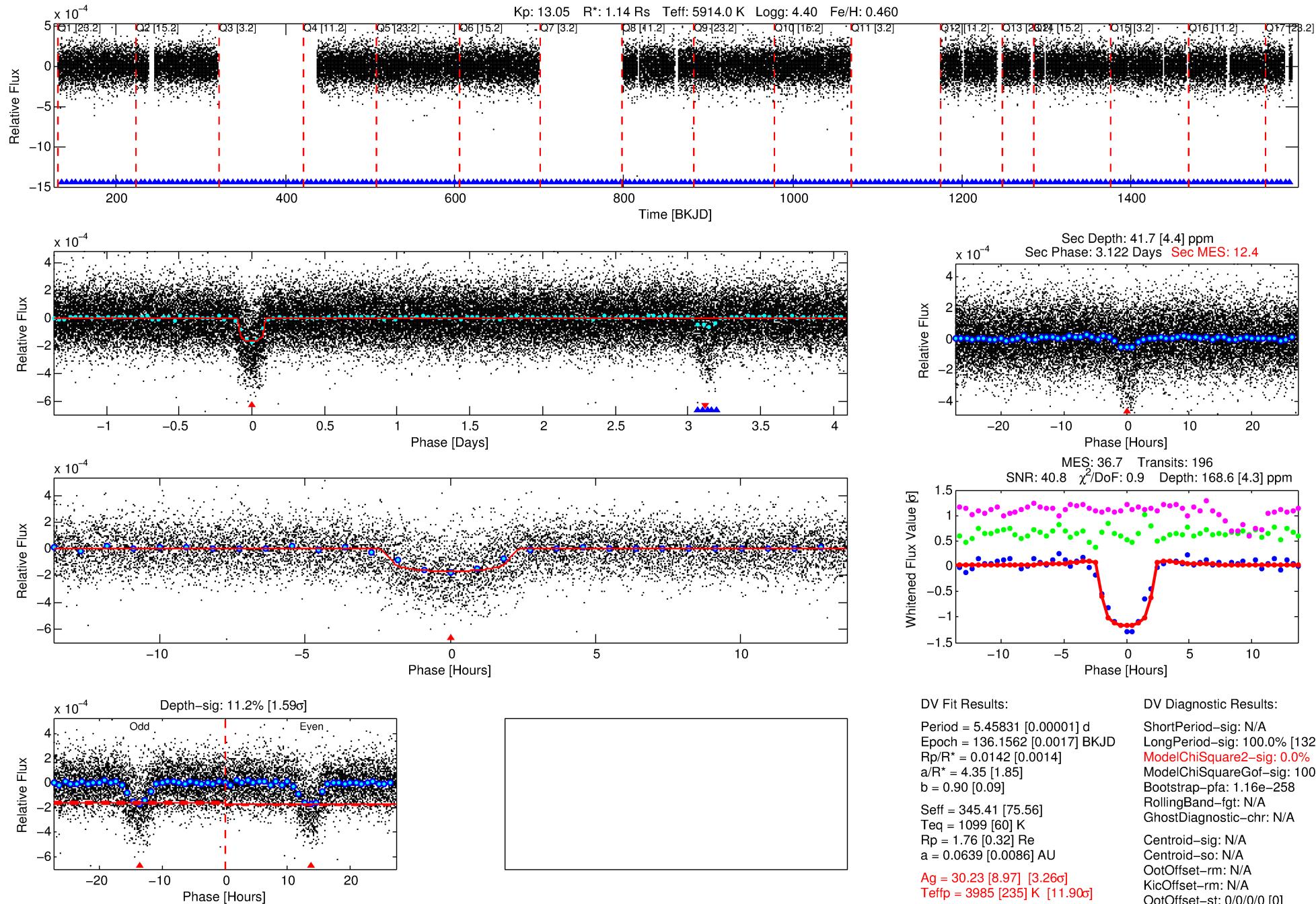


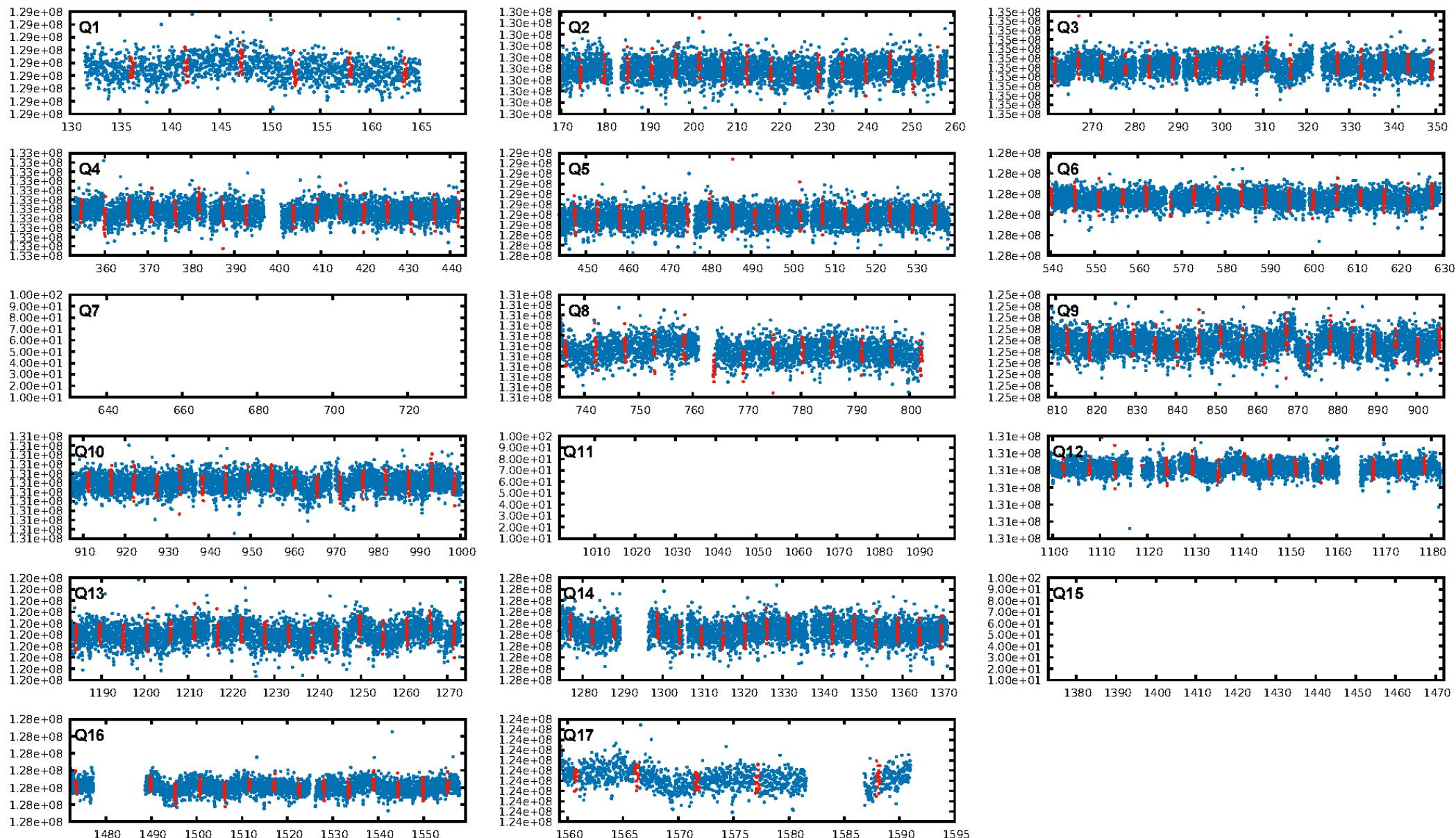
**WARNING: THIS DATA IS  
SIMULATED, NOT OBSERVED**

## DV One-Page Summary

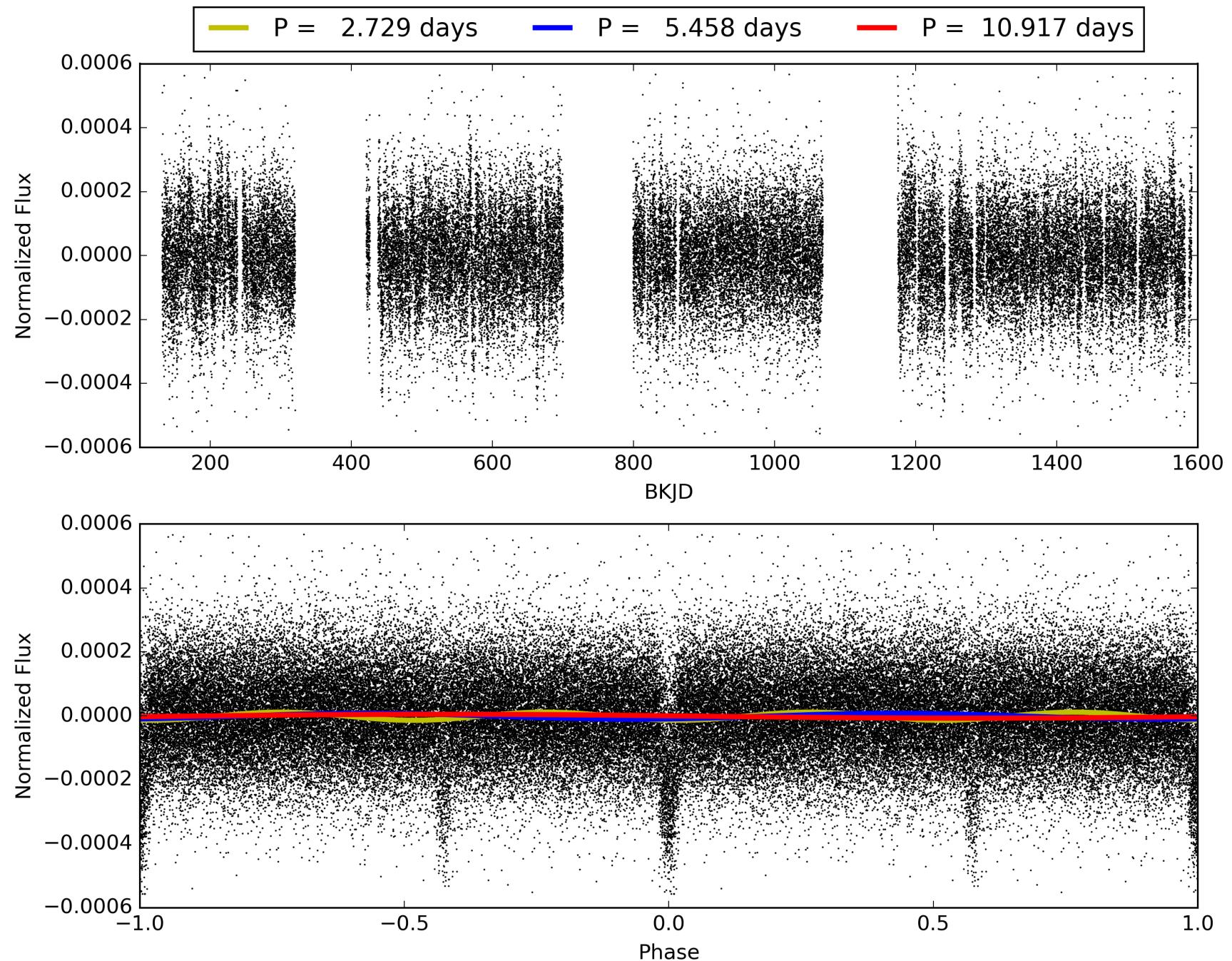
KIC: 10290666 Candidate: 1 of 2 Period: 5.458 d



# TCE 010290666-01, PDC Light Curves

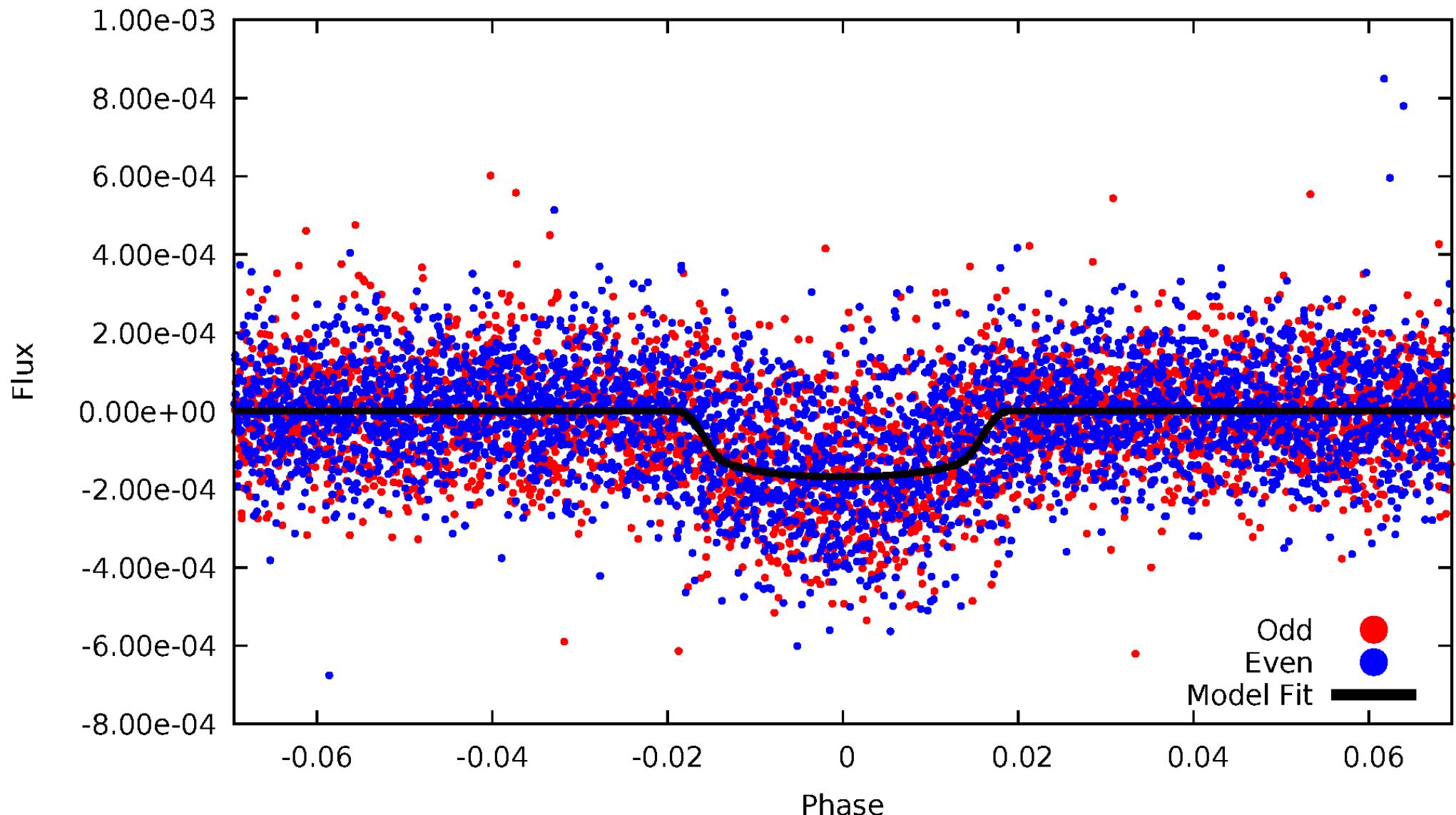


# TCE 010290666-01



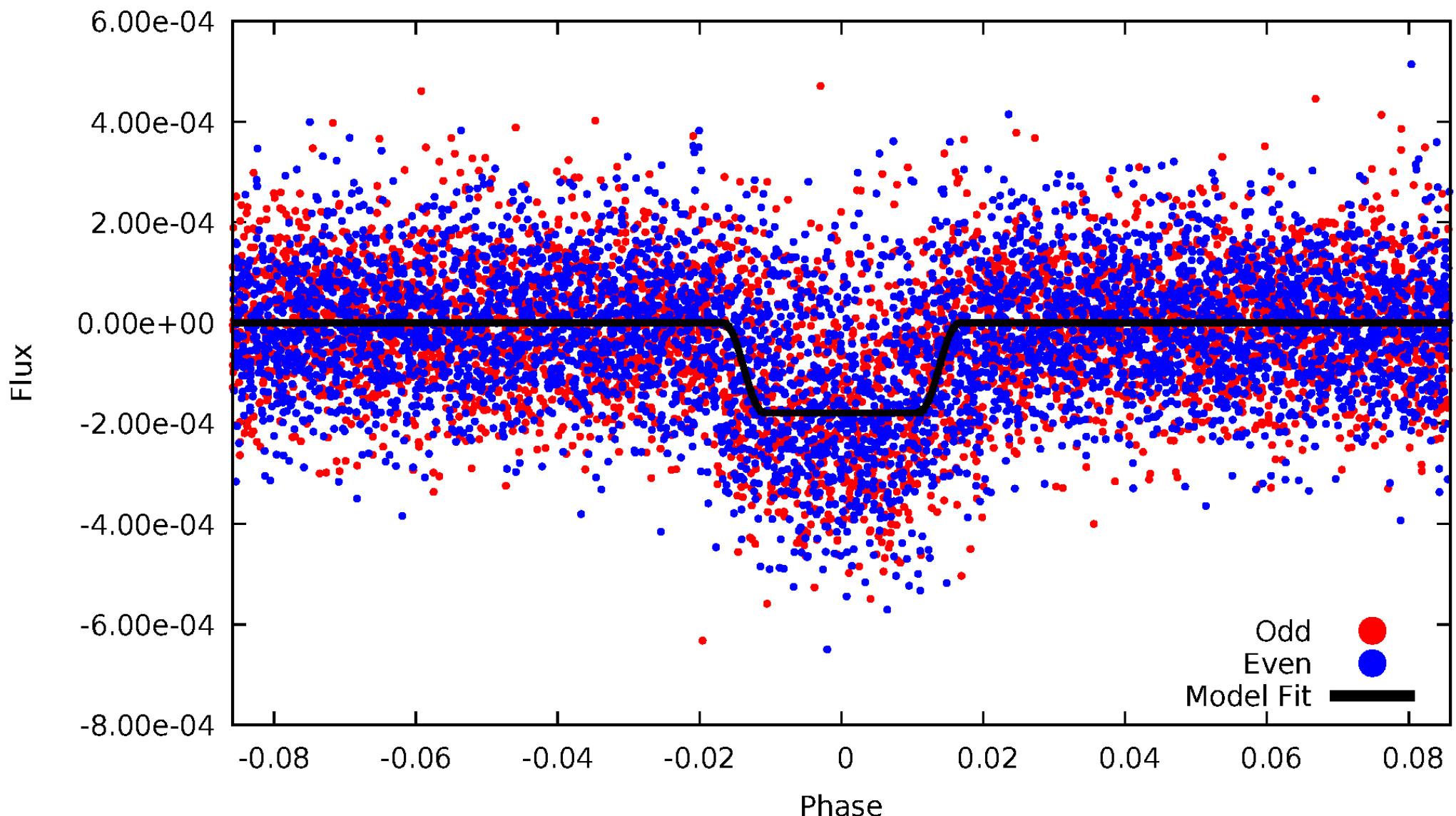
# DV Odd/Even

TCE 010290666-01

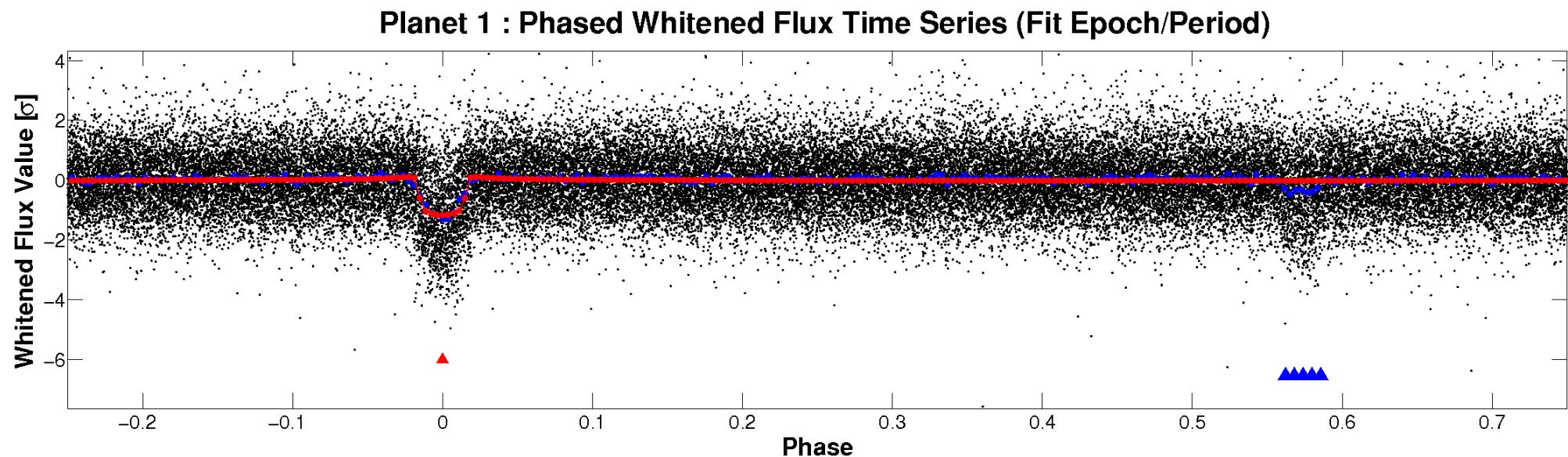
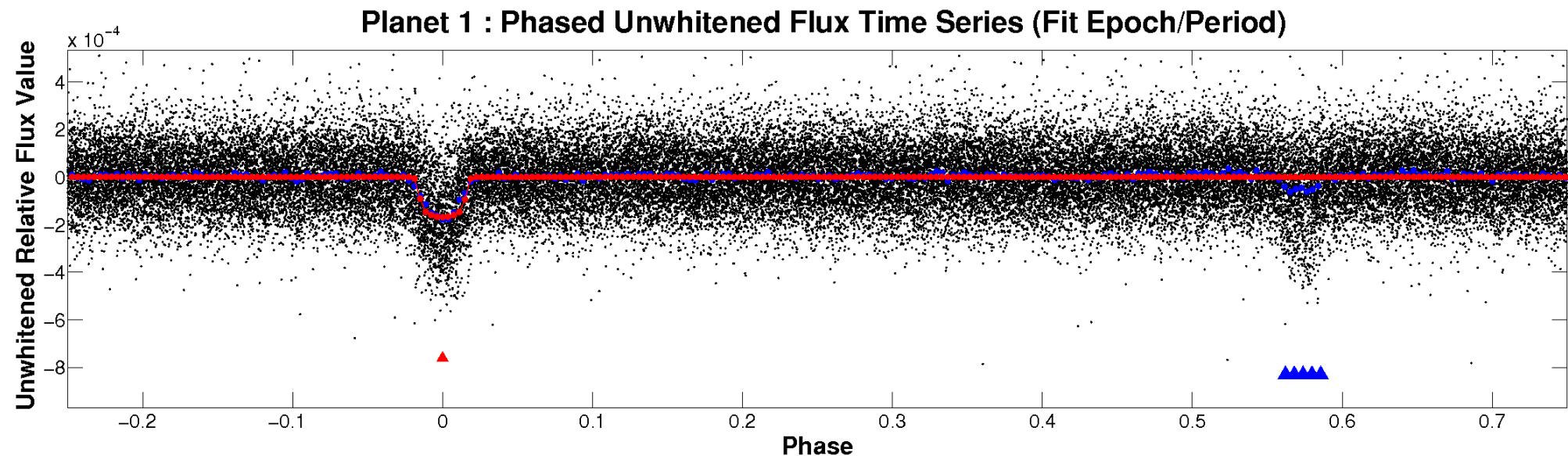


# ALT Odd/Even

TCE 010290666-01

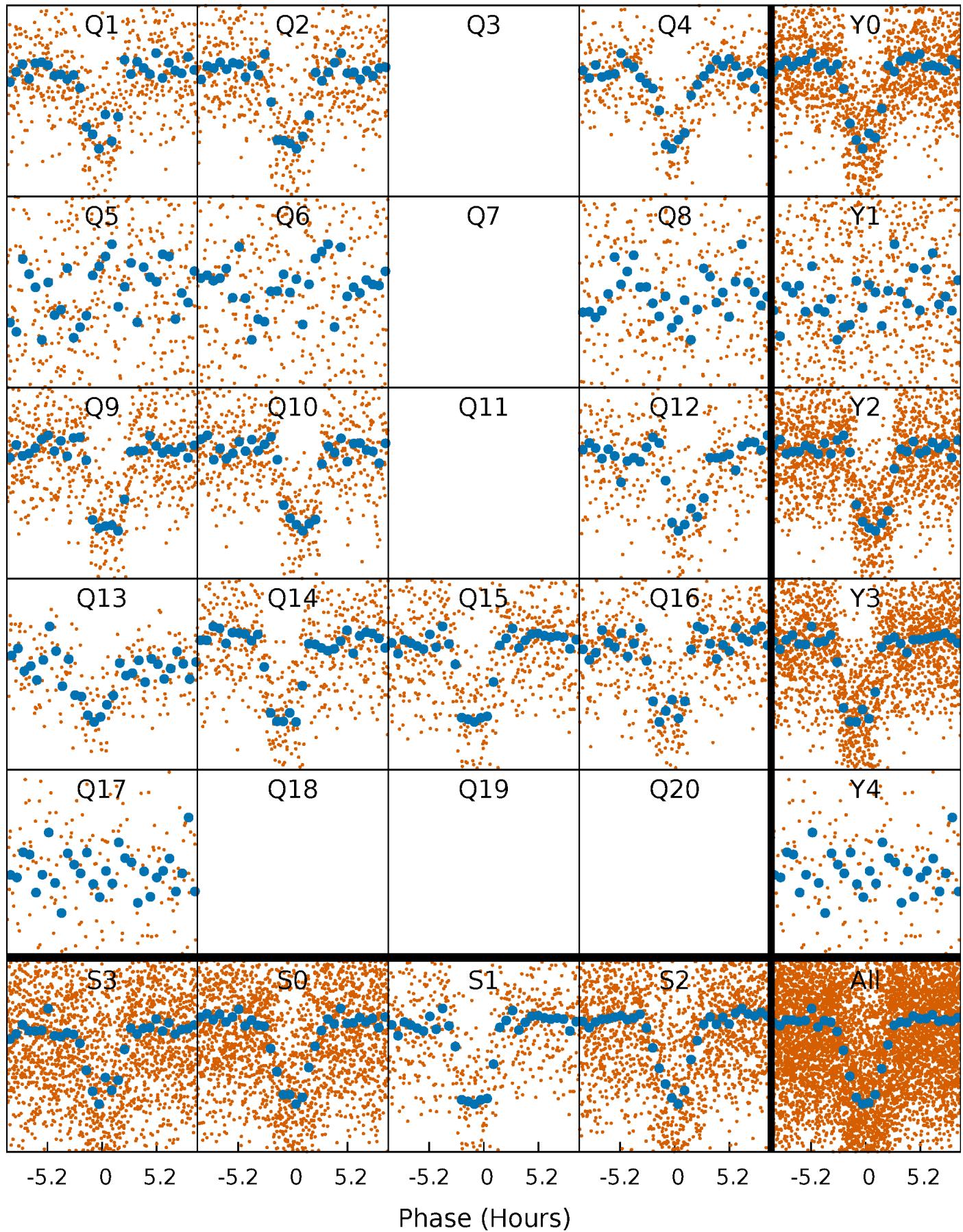


# Non-Whitened Vs. Whitened Light Curve



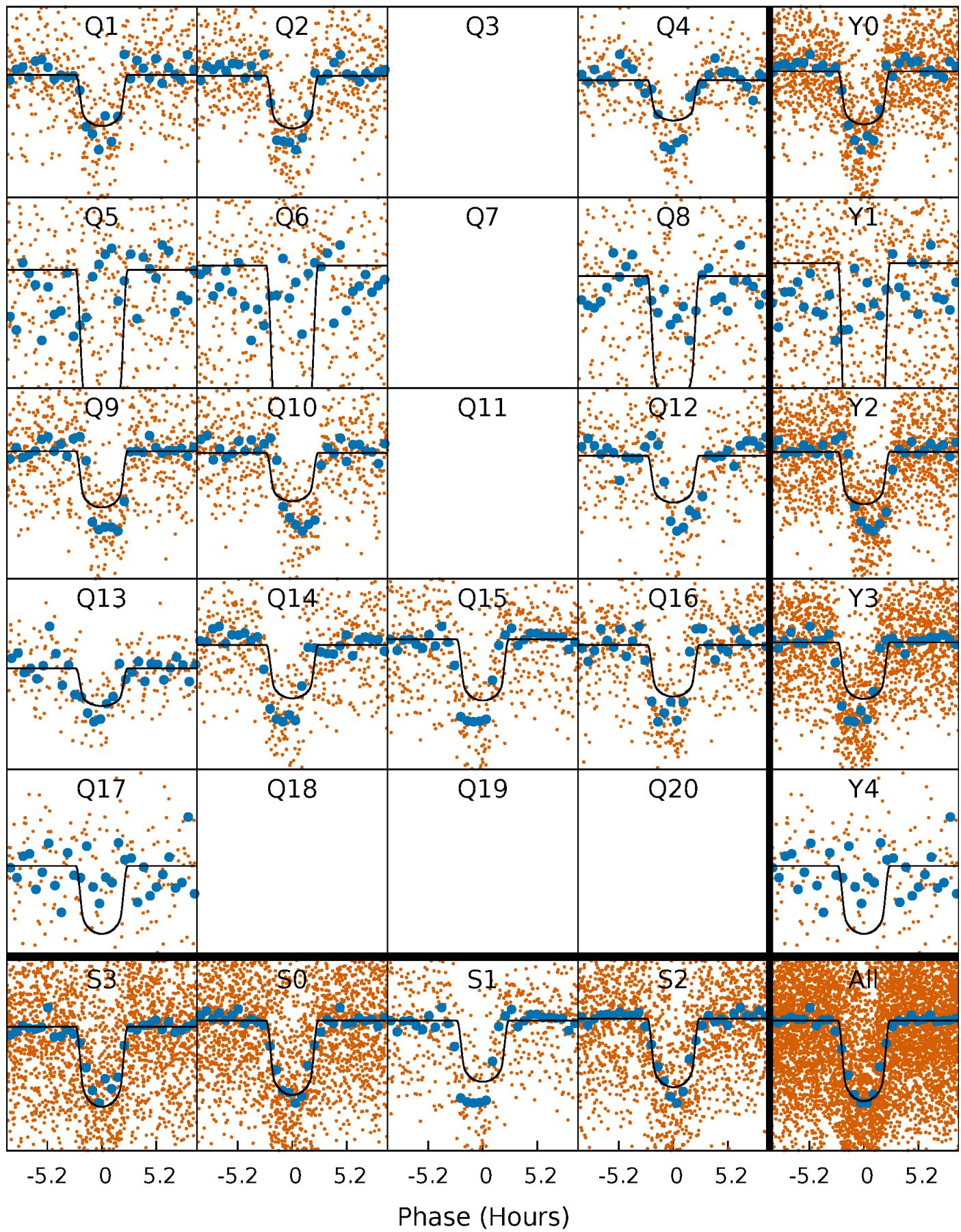
# PDC Quarter-Phased Transit Curves

TCE 010290666-01   P= 5.458308 Days    $T_0=136.156184$  (BKJD)



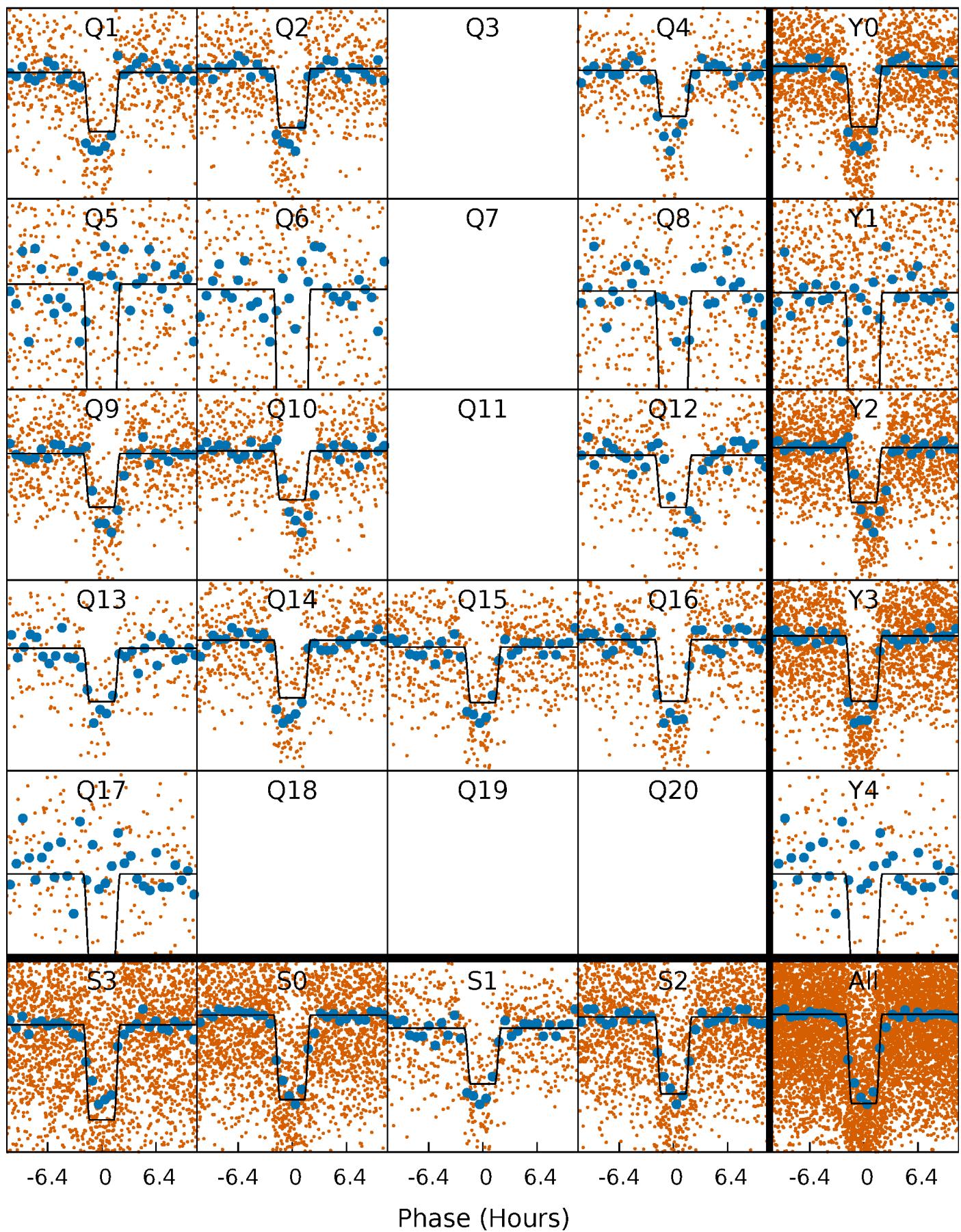
# DV Quarter-Phased Transit Curves

TCE 010290666-01 P= 5.458308 Days  $T_0=136.156184$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

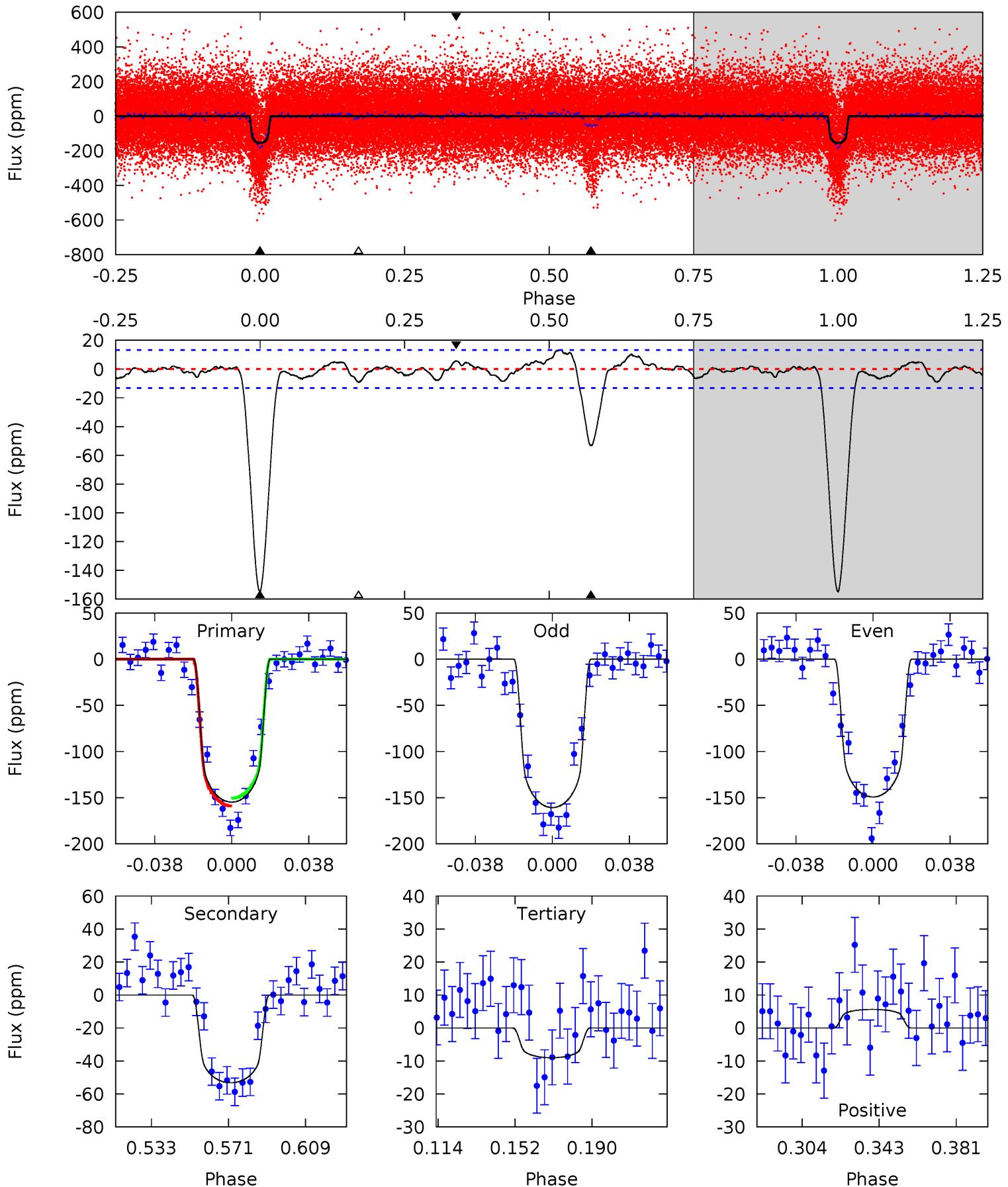
TCE 010290666-01 P= 5.458172 Days  $T_0=136.171715$  (BKJD)



# DV Model-Shift Uniqueness Test

010290666-01,  $P = 5.458308$  Days,  $E = 130.697876$  Days

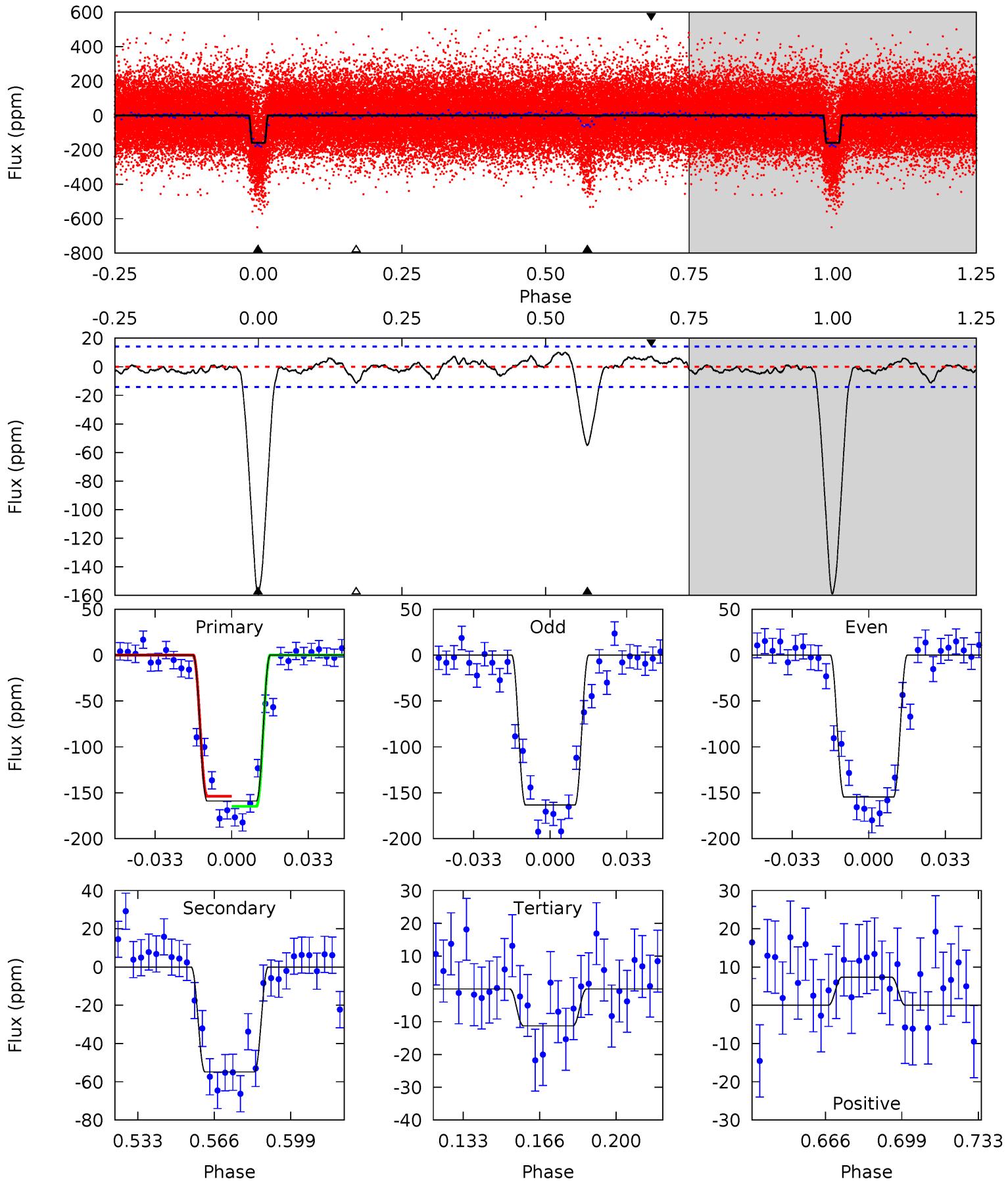
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
55.7	19.1	3.24	2.03	4.76	2.07	1.55	52.4	53.6	15.9	17.1	2.06	0.87	0.08	1.49



# Alt Model-Shift Uniqueness Test

010290666-01,  $P = 5.458172$  Days,  $E = 130.713543$  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
53.8	18.6	3.82	2.49	4.79	2.13	1.32	50.0	51.3	14.8	16.1	1.47	0.81	0.06	1.85



### Stellar Parameters For KIC 010290666

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$	
	$5914^{+106}_{-130}$	$4.396^{+0.040}_{-0.112}$	$0.460^{+0.050}_{-0.150}$	$1.135^{+0.175}_{-0.075}$	$1.172^{+0.057}_{-0.071}$	$1.127^{+0.203}_{-0.382}$	
	$+2\%/-2\%$	$+1\%/-3\%$	$+11\%/-33\%$	$+15\%/-7\%$	$+5\%/-6\%$	$+18\%/-34\%$	
Source	SPE59	SPE59	SPE59	DSEP			

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

### Secondary Eclipse Parameters for KIC 010290666-01 / KOI 0332.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (\text{K})$	$T_{obs} (\text{K})$	$A_{obs}$
DV	$-53 \pm 3$	$1.81^{+0.21}_{-0.21}$	$1549^{+66}_{-47}$	$4419^{+200}_{-173}$	$36^{+10}_{-8}$
Alt.	$-55 \pm 3$	$1.70^{+0.21}_{-0.19}$	$1546^{+63}_{-43}$	$4543^{+233}_{-182}$	$43^{+11}_{-10}$

$T_{max}$  = Theoretical Maximum Planetary Temperature

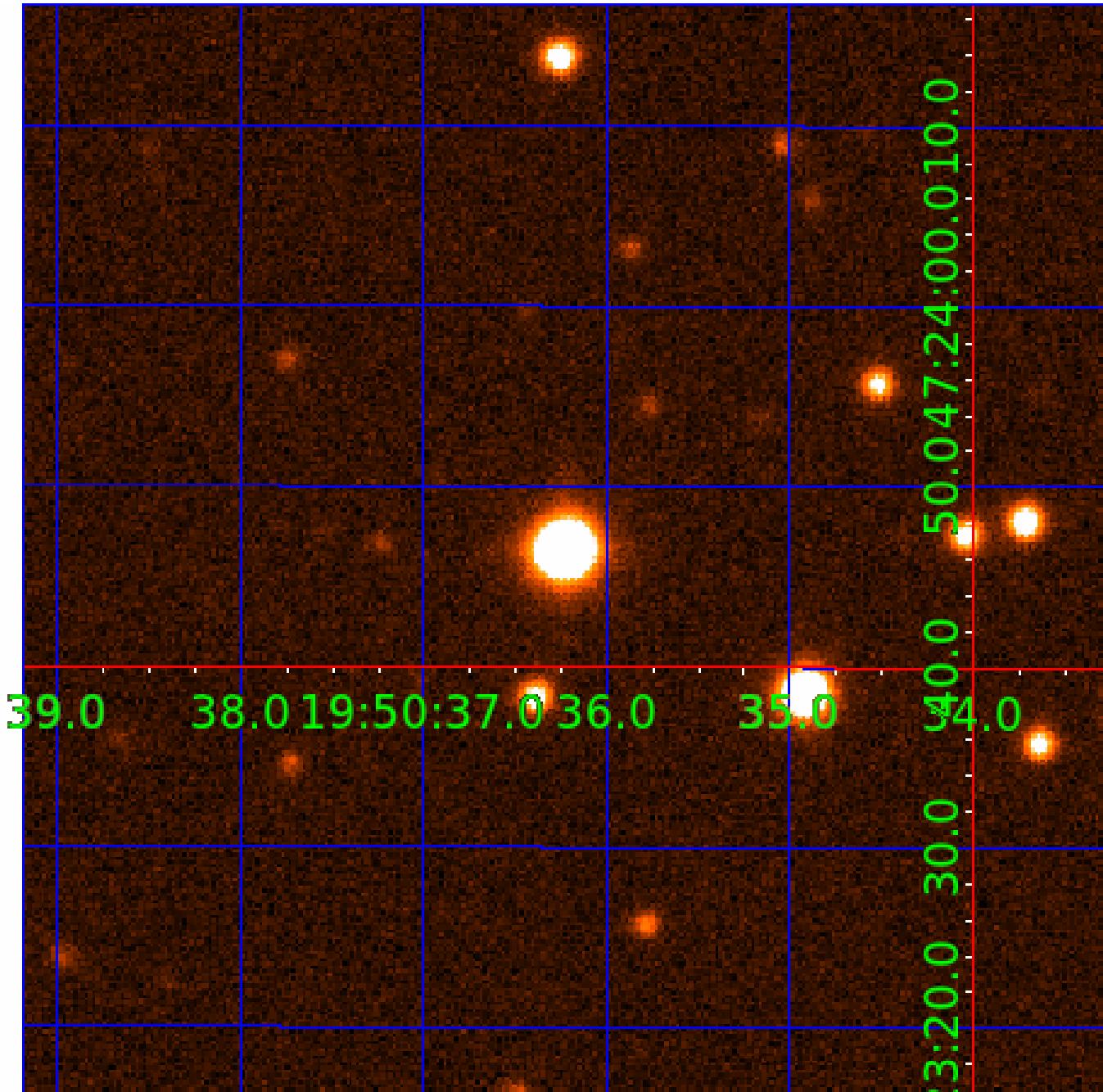
$T_{obs}$  = Observed Planetary Temperature (Assuming  $A=0.3$ )

$A_{obs}$  = 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



# KIC 010290666

## Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	$R_*$ ( $R_\odot$ )	$T_*$ (K)	$R_p$ ( $R_\oplus$ )	$S_p$ ( $S_\oplus$ )
010290666-01	SCR	No	5.458308	136.156184	168.6	4.547	36.7	40.8	1.14	5914	1.76	345.41
010290666-02	SCR	No	327.530601	182.891103	238.6	3.672	7.5	8.0	1.14	5914	2.10	1.47

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010290666-01	SCR	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT
010290666-02	SCR	FP	0.08	1	0	0	0	ALL_TRANS_CHASES—MOD_NONUNIQ_ALT

**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](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

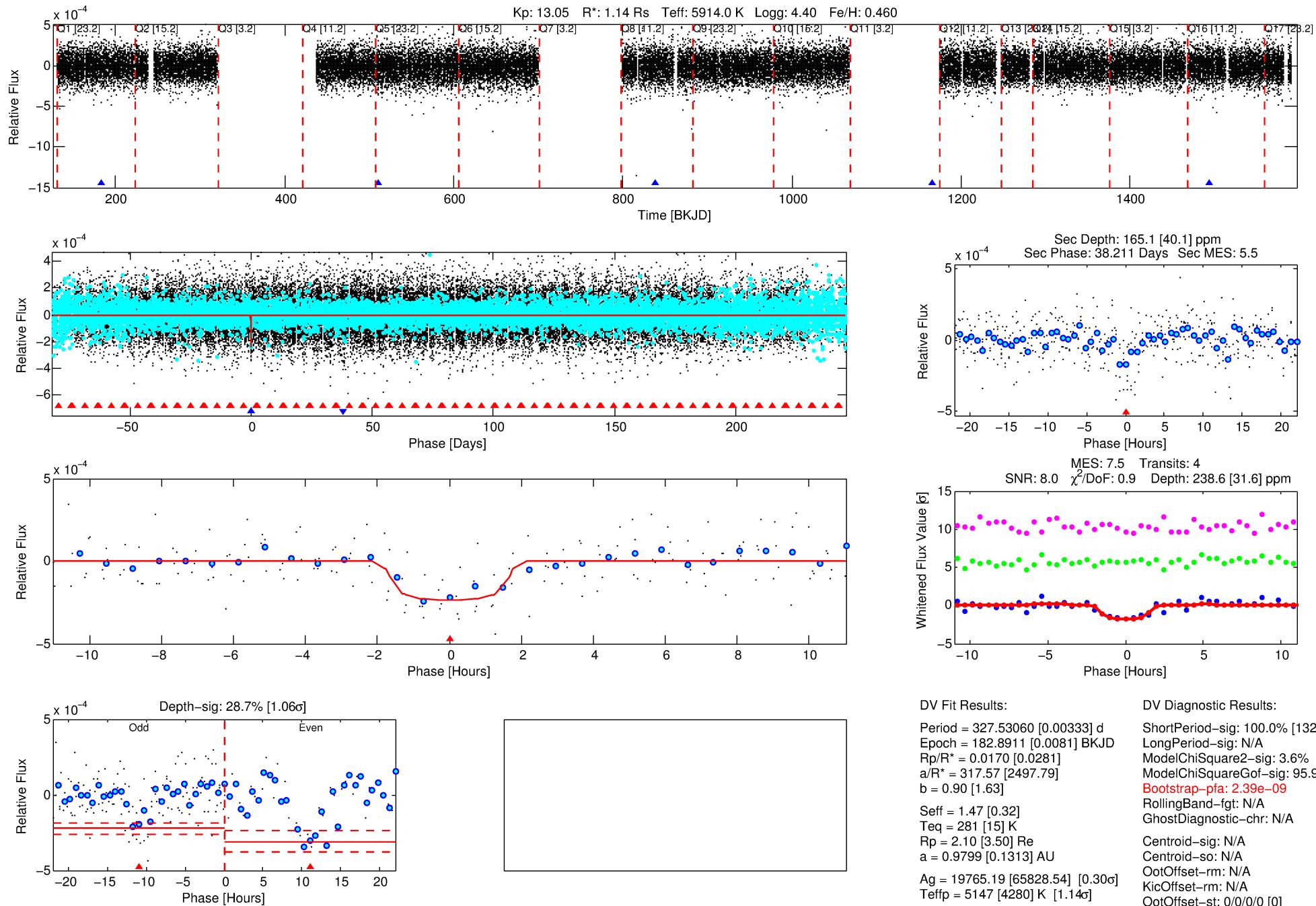
## Ephemeris Match Information For 010290666-02

No Significant Match Found

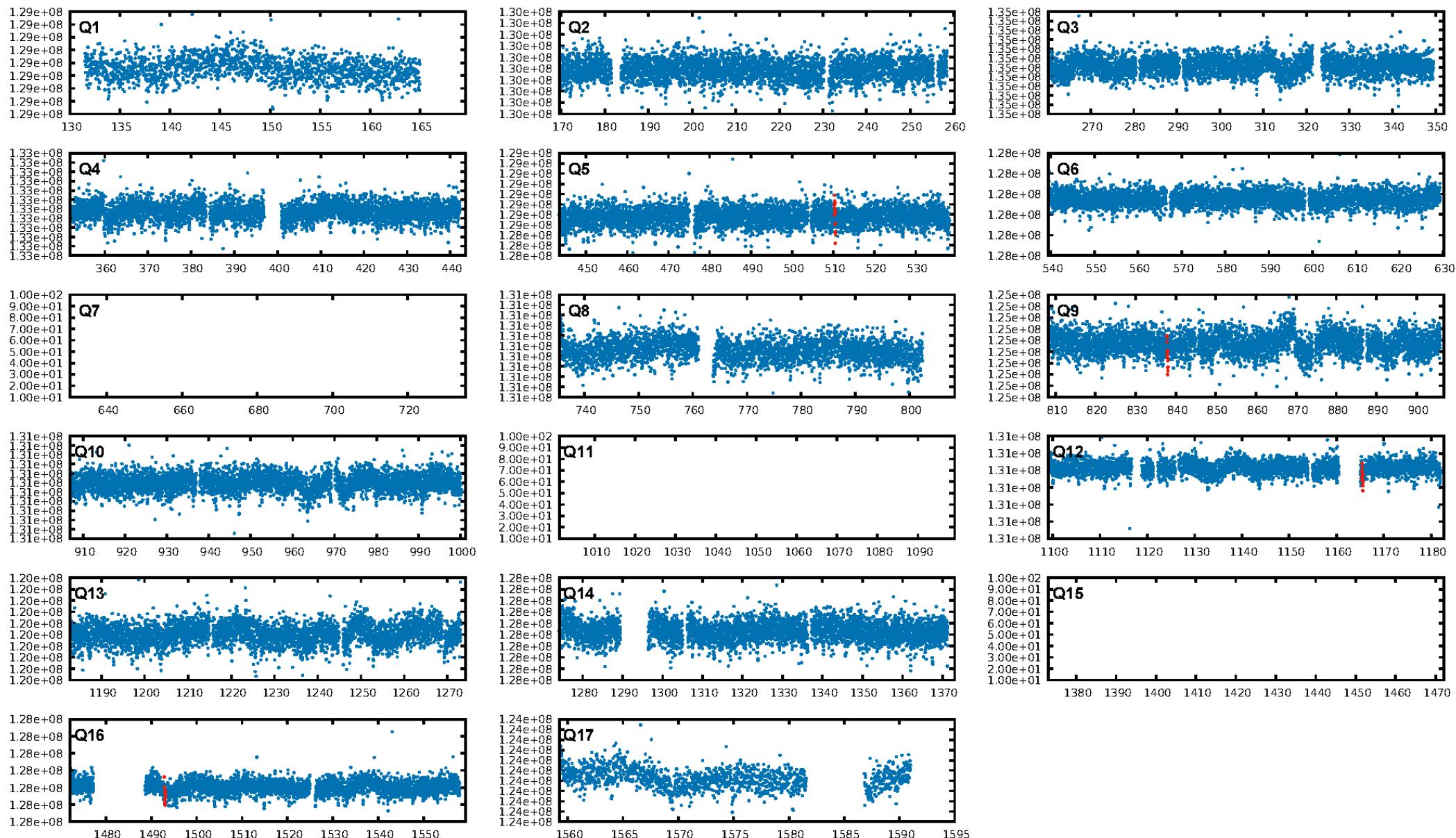
**WARNING: THIS DATA IS  
SIMULATED, NOT OBSERVED**

## DV One-Page Summary

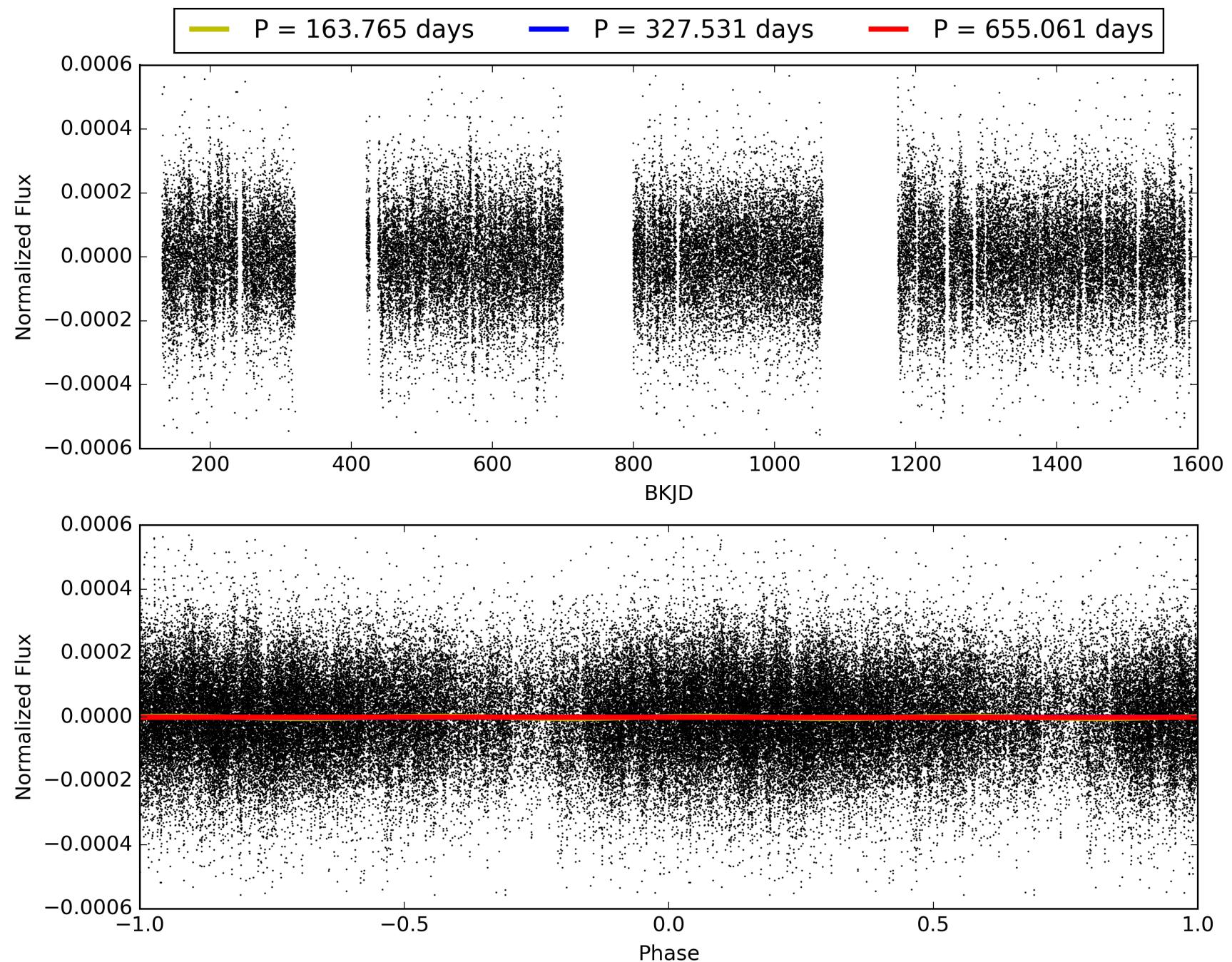
KIC: 10290666 Candidate: 2 of 2 Period: 327.531 d



# TCE 010290666-02, PDC Light Curves

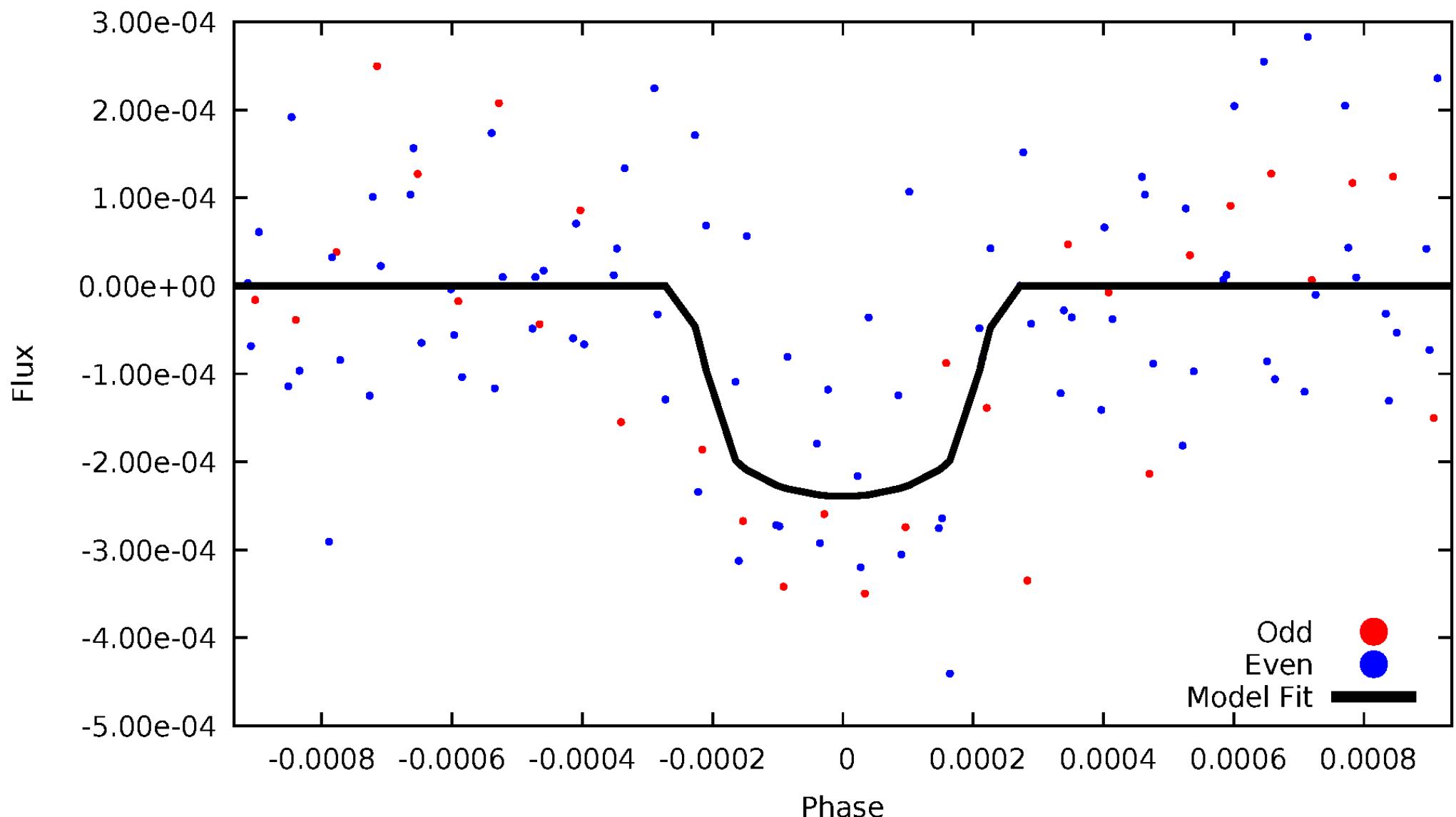


# TCE 010290666-02



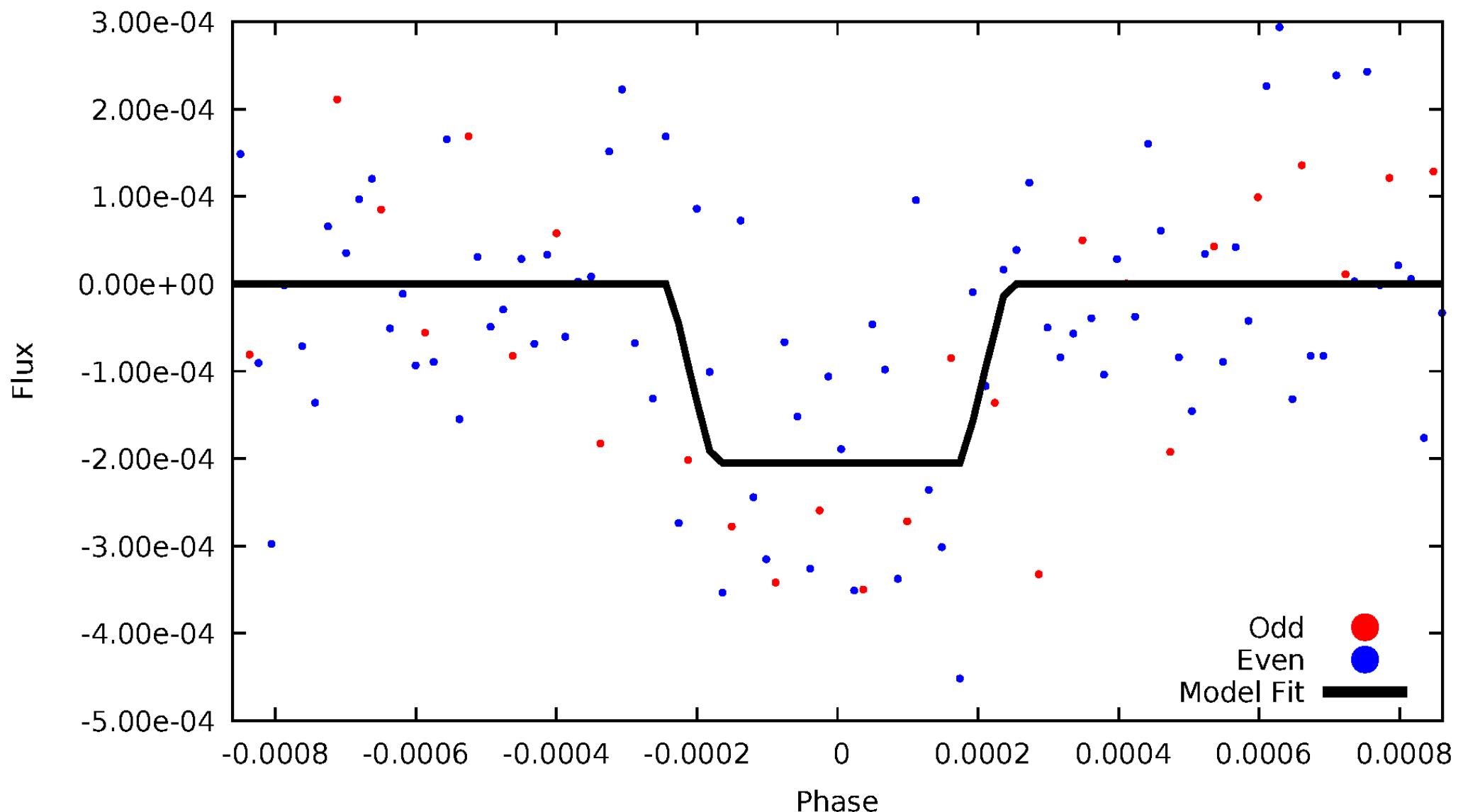
# DV Odd/Even

TCE 010290666-02

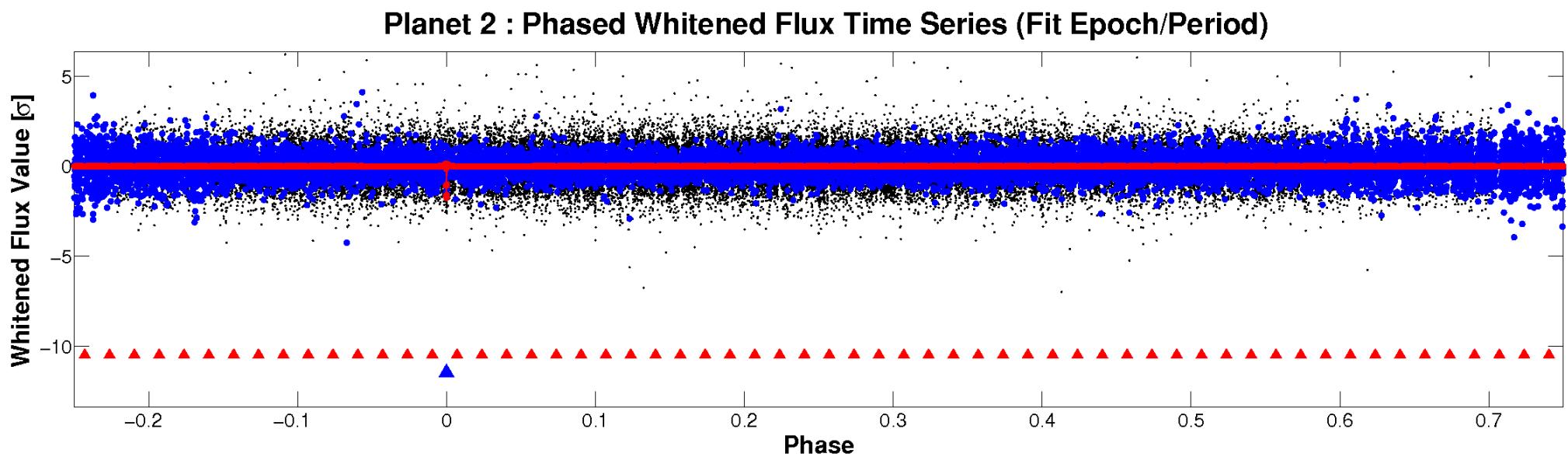
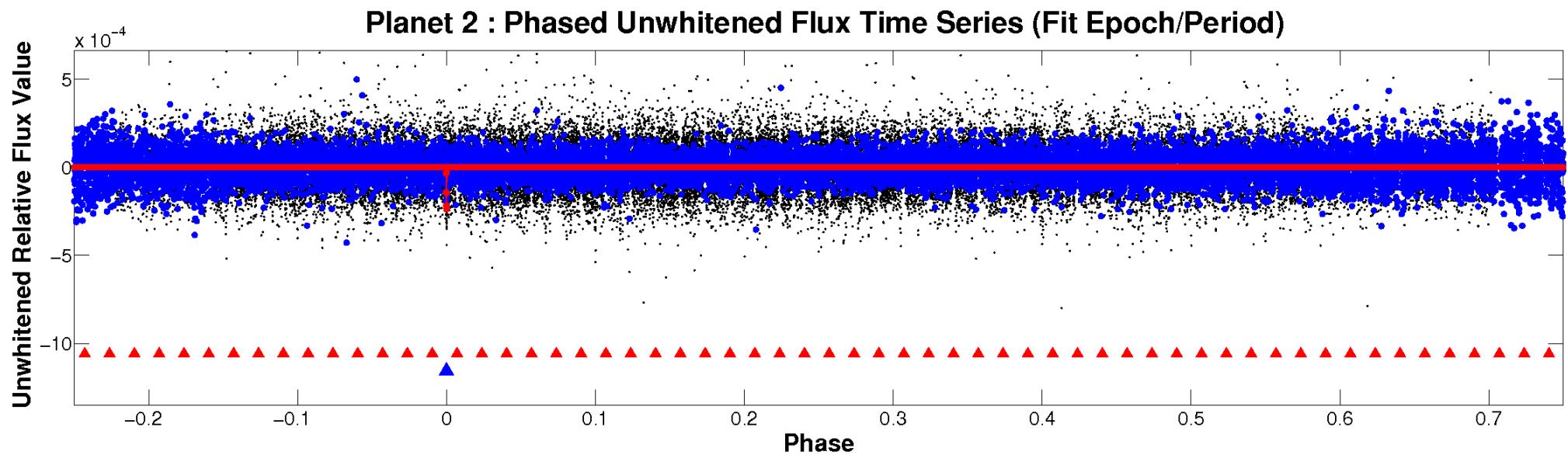


# ALT Odd/Even

TCE 010290666-02

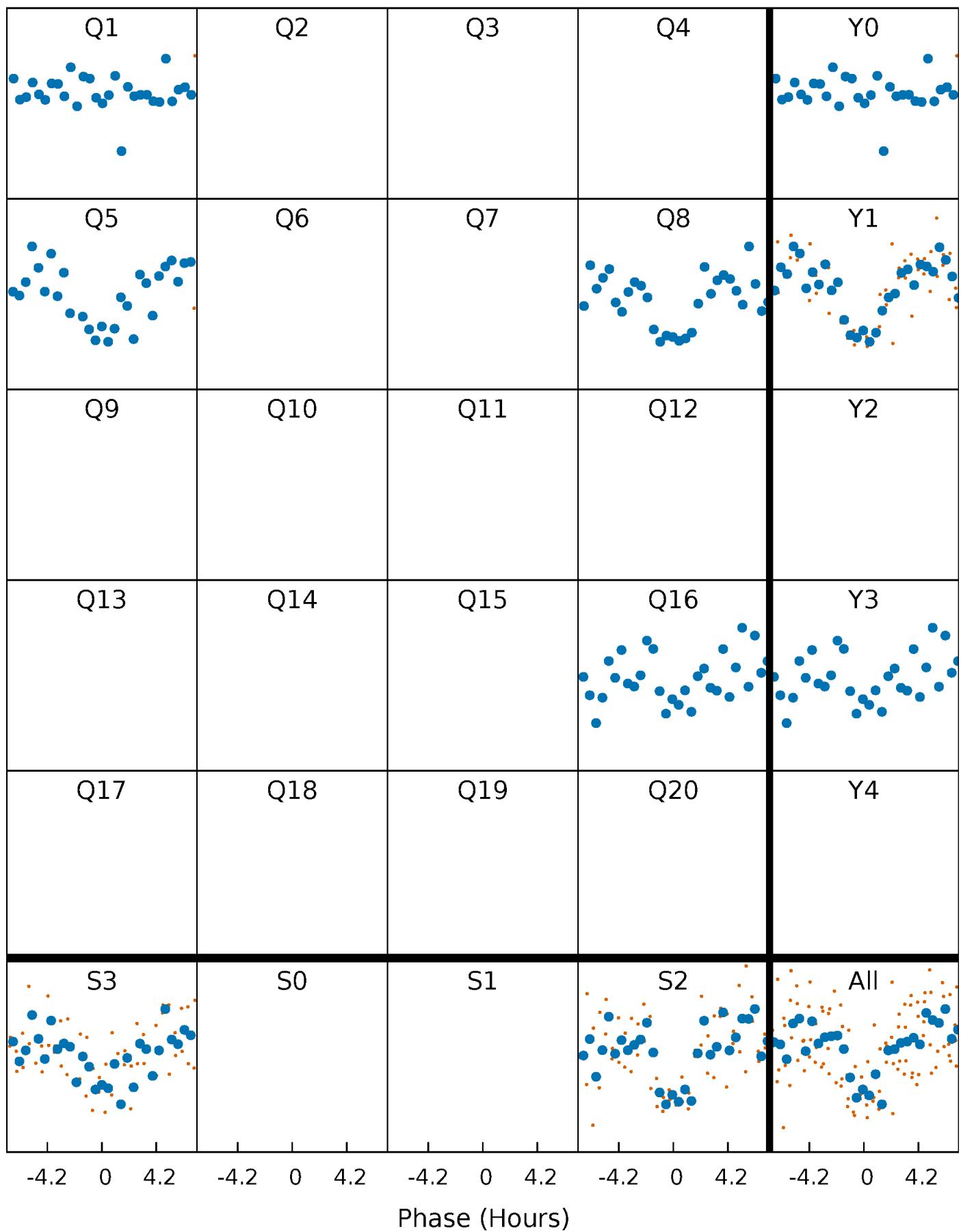


## Non-Whitened Vs. Whitened Light Curve



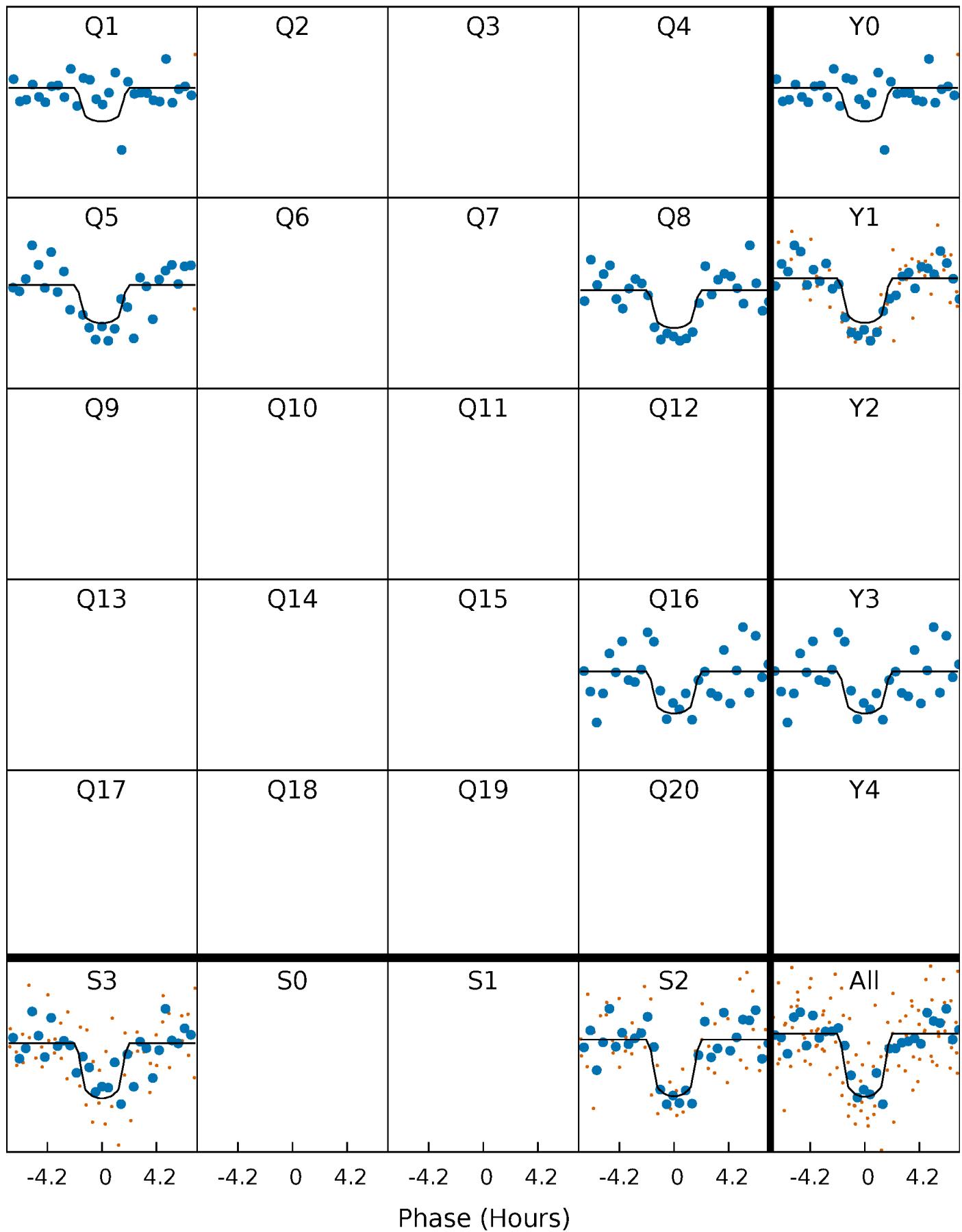
# PDC Quarter-Phased Transit Curves

TCE 010290666-02     $P=327.530601$  Days     $T_0=182.891103$  (BKJD)



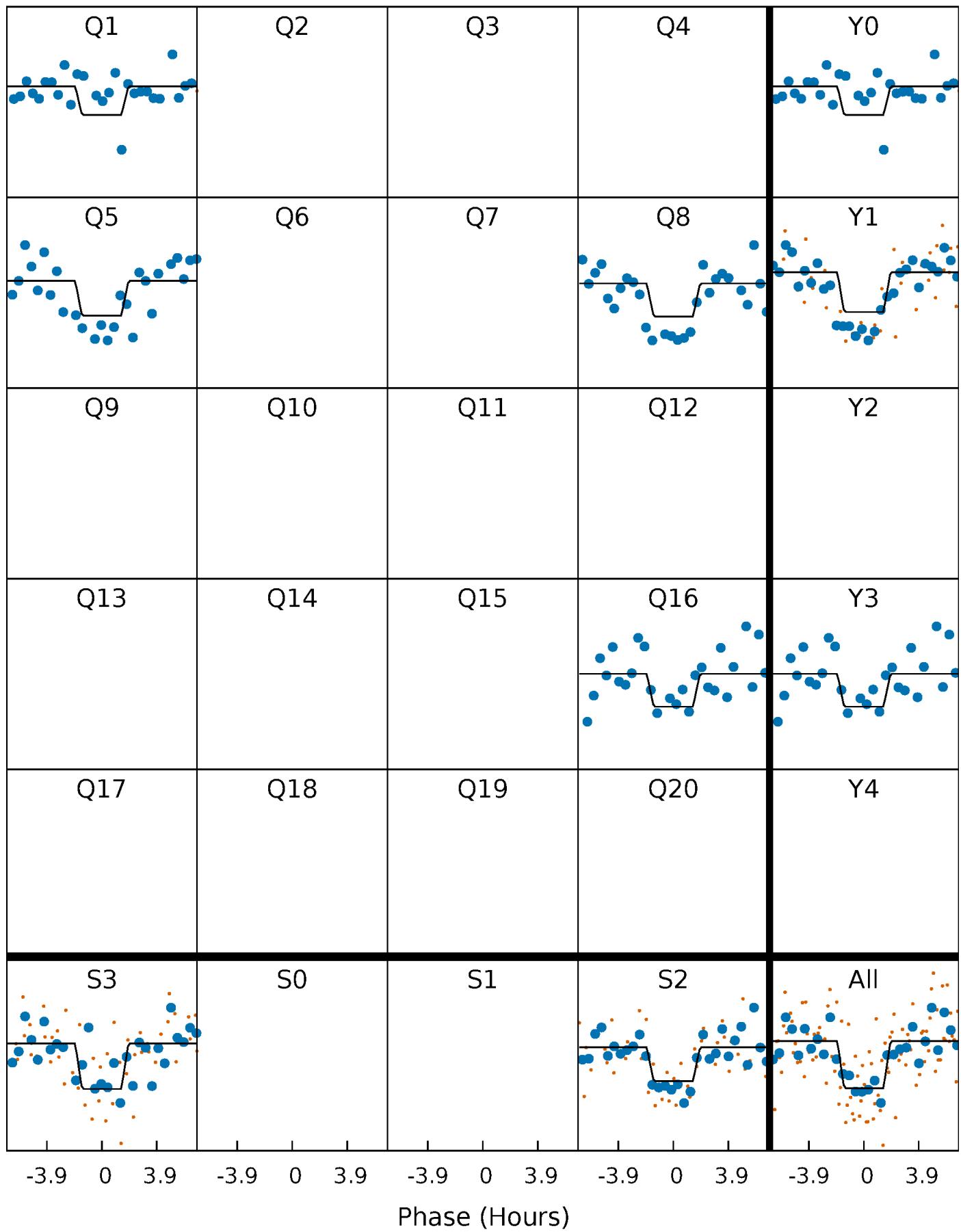
# DV Quarter-Phased Transit Curves

TCE 010290666-02   P=327.530601 Days    $T_0=182.891103$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

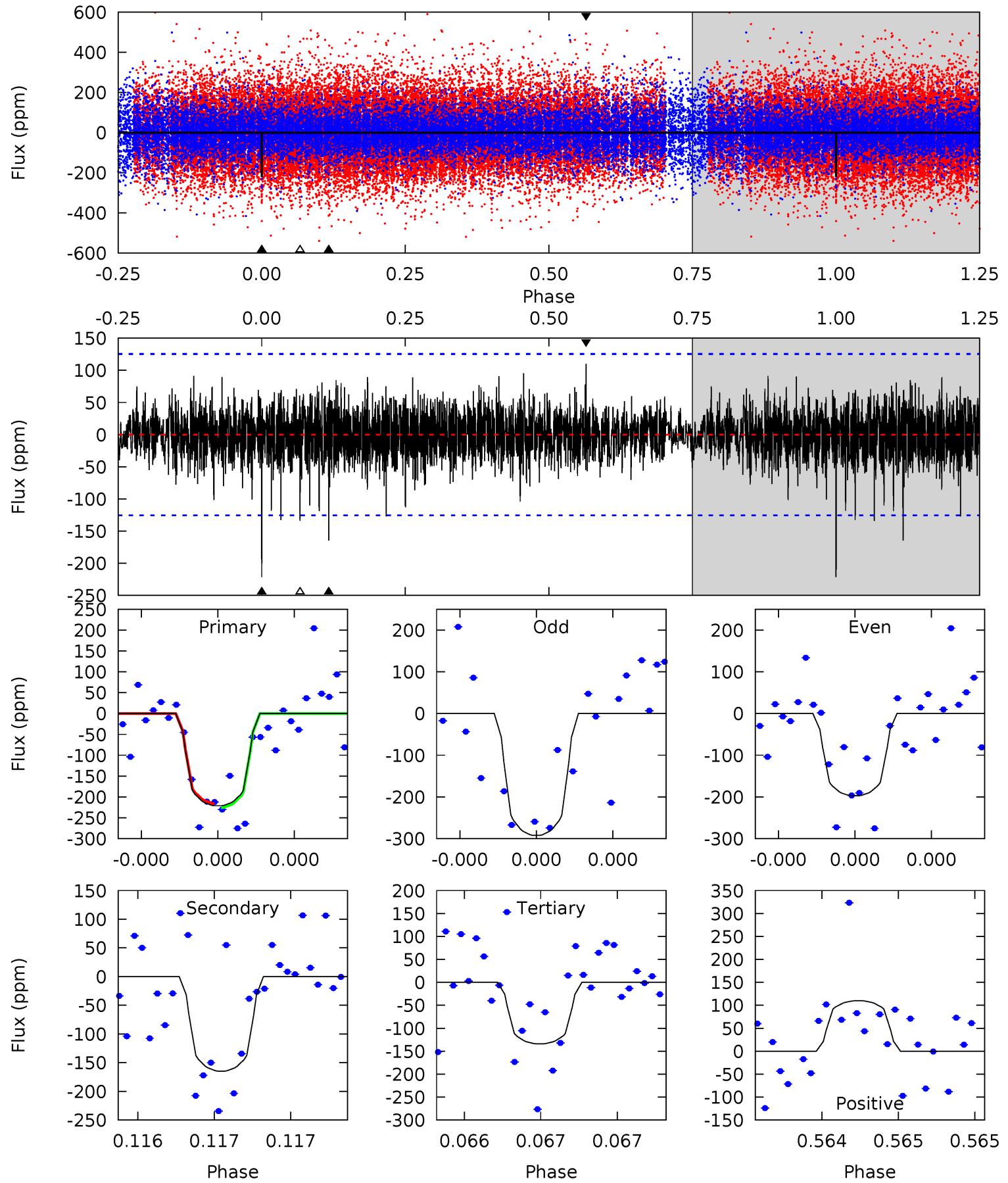
TCE 010290666-02     $P=327.532813$  Days    $T_0=182.887887$  (BKJD)



# DV Model-Shift Uniqueness Test

010290666-02, P = 327.530601 Days, E = 182.891103 Days

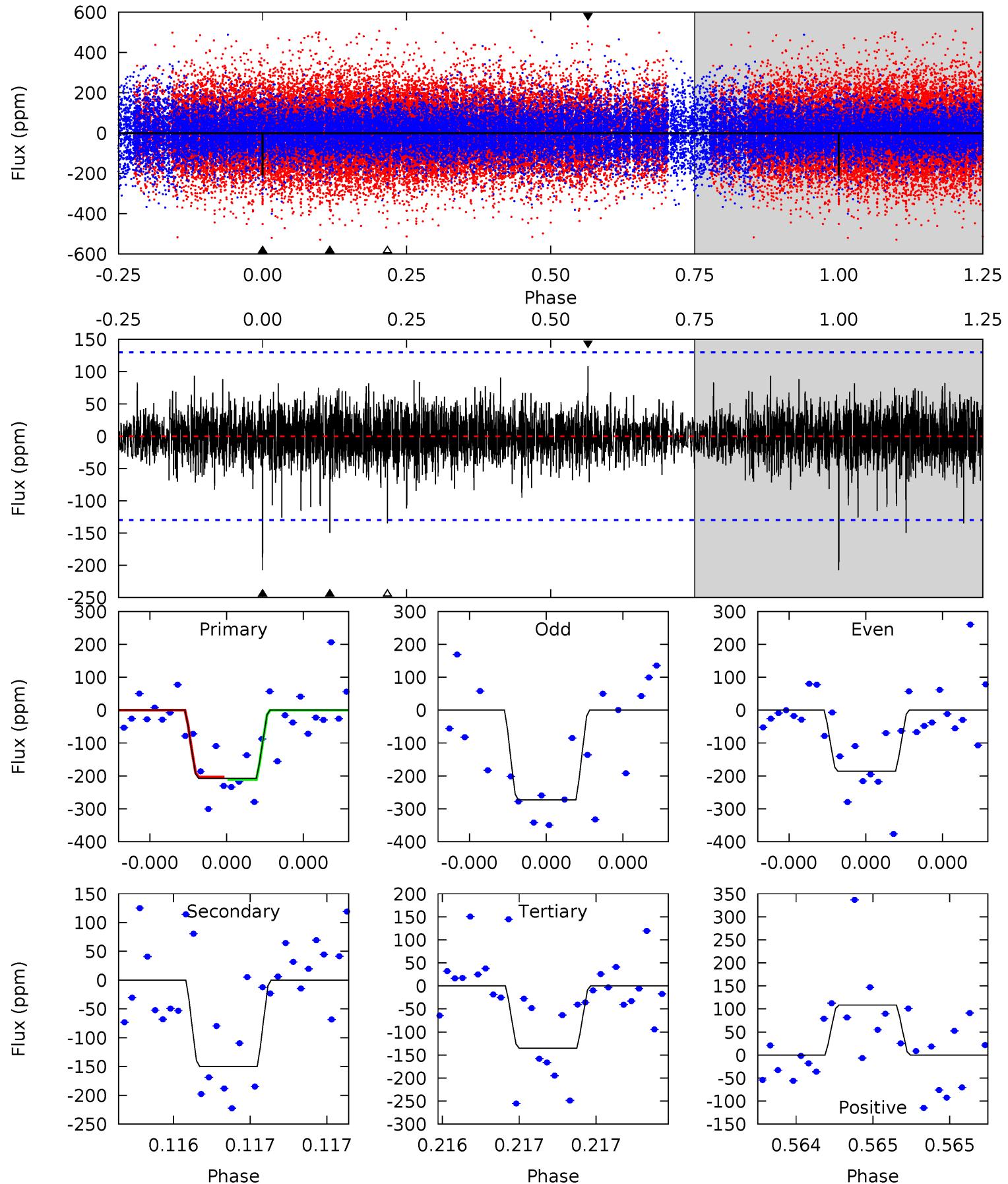
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.83	7.32	5.95	4.89	5.58	3.48	1.19	3.87	4.94	1.37	2.43	1.84	0.90	0.33	0.21



# Alt Model-Shift Uniqueness Test

010290666-02,  $P = 327.532813$  Days,  $E = 182.887887$  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
8.93	6.44	5.82	4.66	5.59	3.51	1.08	3.11	4.27	0.62	1.78	1.60	0.97	0.34	0.15



### Stellar Parameters For KIC 010290666

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$5914^{+106}_{-130}$	$4.396^{+0.040}_{-0.112}$	$0.460^{+0.050}_{-0.150}$	$1.135^{+0.175}_{-0.075}$	$1.172^{+0.057}_{-0.071}$	$1.127^{+0.203}_{-0.382}$
	$+2\%/-2\%$	$+1\%/-3\%$	$+11\%/-33\%$	$+15\%/-7\%$	$+5\%/-6\%$	$+18\%/-34\%$
Source	SPE59	SPE59	SPE59		DSEP	

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

### Secondary Eclipse Parameters for KIC 010290666-02 / KOI 0332.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (\text{K})$	$T_{obs} (\text{K})$	$A_{obs}$
DV	$-165 \pm 23$	$3.23^{+2.88}_{-2.30}$	$396^{+16}_{-12}$	$4412^{+3551}_{-891}$	$8571^{+85044}_{-6241}$
Alt.	$-150 \pm 23$	$3.40^{+2.84}_{-2.33}$	$396^{+14}_{-12}$	$4267^{+2919}_{-822}$	$6908^{+61905}_{-4941}$

$T_{max}$  = 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

