

# KIC 007259911

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
007259911-01	OBS	No	0.769623	131.932869	151143.8	1.500	423.3	-1.0	1.01	5865	39.62	4138.63
007259911-02	OBS	No	0.769558	131.667444	83939.9	2.000	197.1	-1.0	1.01	5865	29.28	4139.09
007259911-03	OBS	No	0.769175	131.898494	0.0	1.500	23.4	-1.0	1.01	5865	9.80	4141.84

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007259911-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS
007259911-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS
007259911-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_NOFITS

**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.

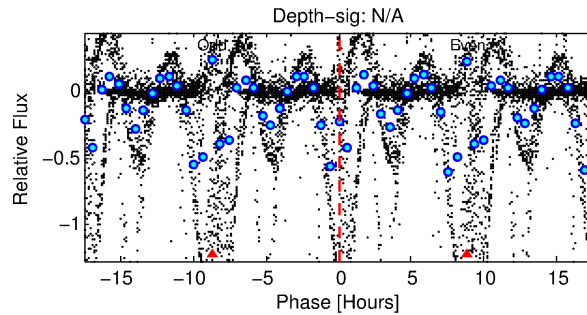
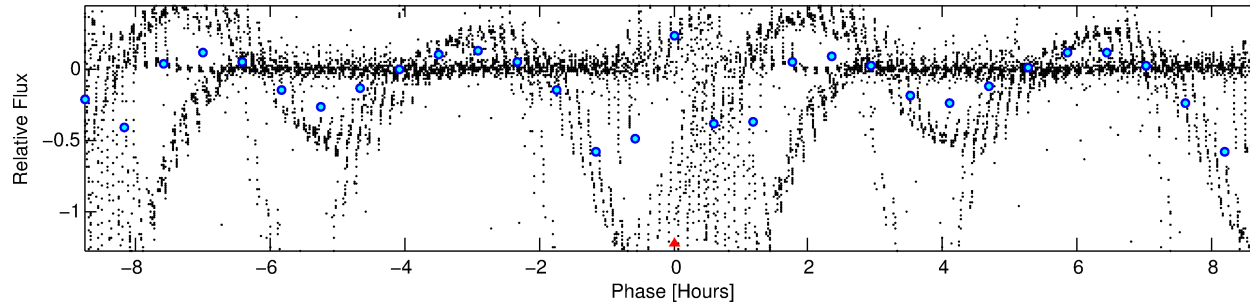
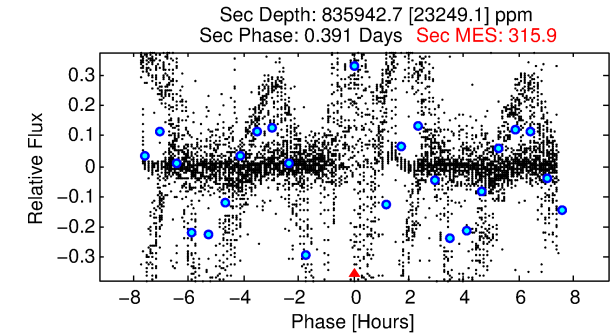
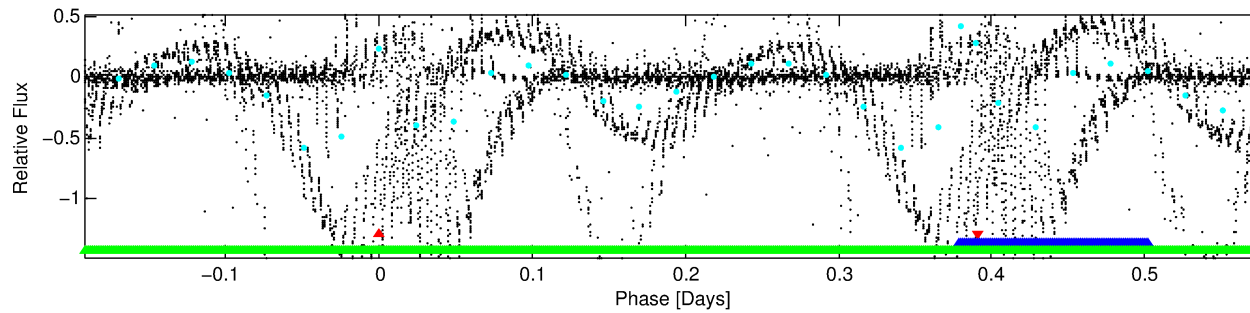
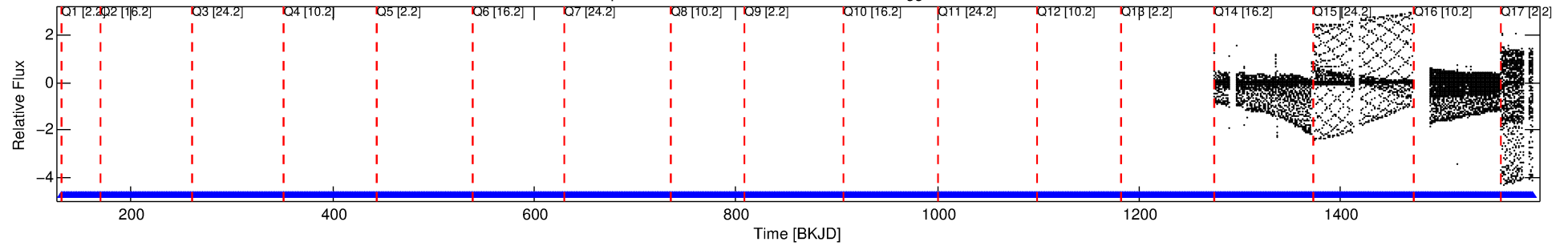
Ephemeris Match Information For 007259911-01

No Significant Match Found

# DV One-Page Summary

KIC: 7259911 Candidate: 1 of 3 Period: 0.770 d

Kp: 16.76 R\*: 1.01 Rs Teff: 5865.0 K Logg: 4.41 Fe/H: -0.140



## TPS TCE Results:

Period = 0.76962 d  
Epoch = 131.9329 BKJD

DV fit results are unavailable

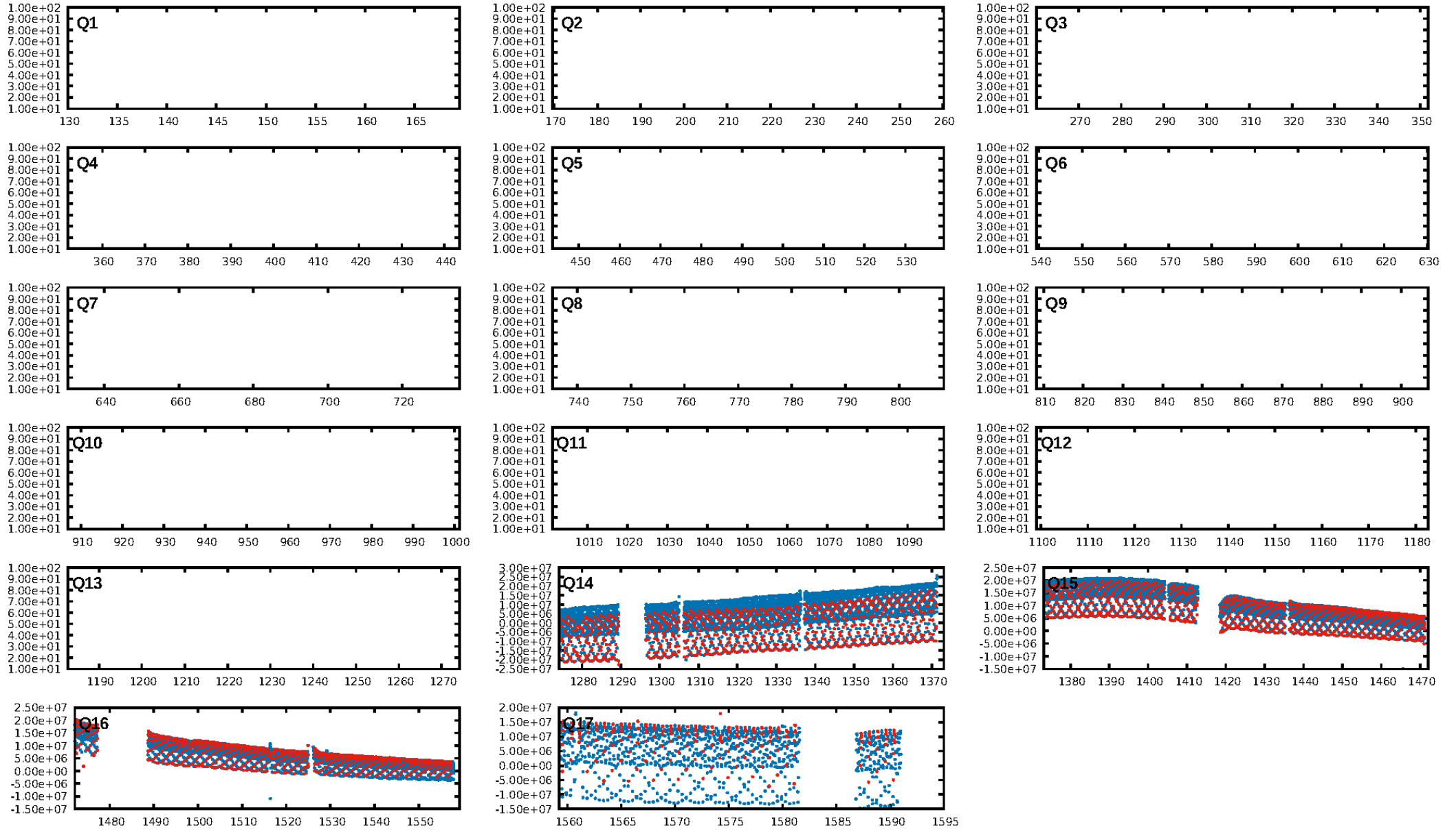
## DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 $\sigma$ ]  
LongPeriod-sig: N/A  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: 0.00e+00  
RollingBand-fgt: N/A  
GhostDiagnostic-chr: -5.546  
Centroid-sig: N/A  
Centroid-so: 3.334 arcsec [6842.78 $\sigma$ ]  
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

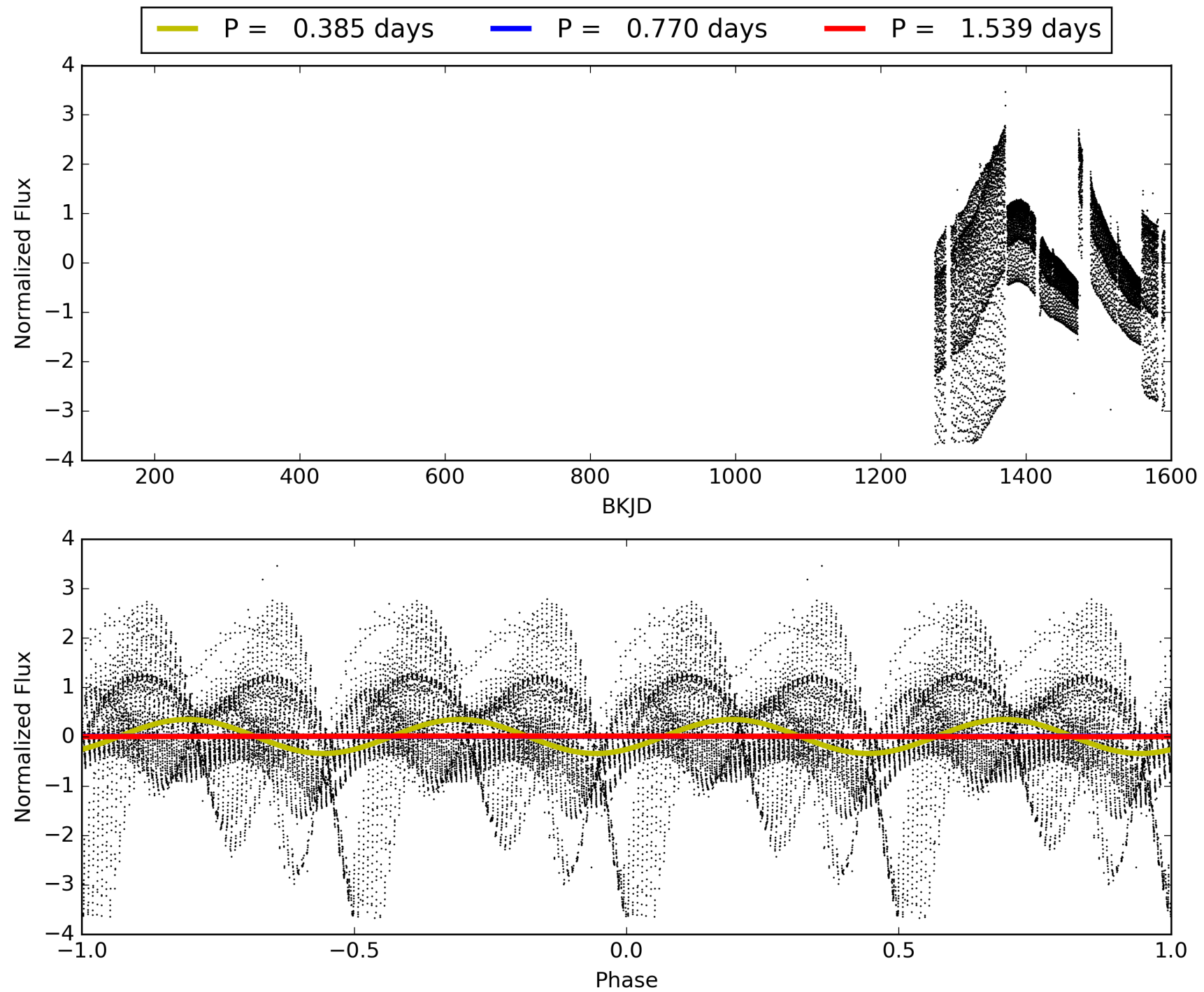
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 06:30:16 Z

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

# TCE 007259911-01, PDC Light Curves

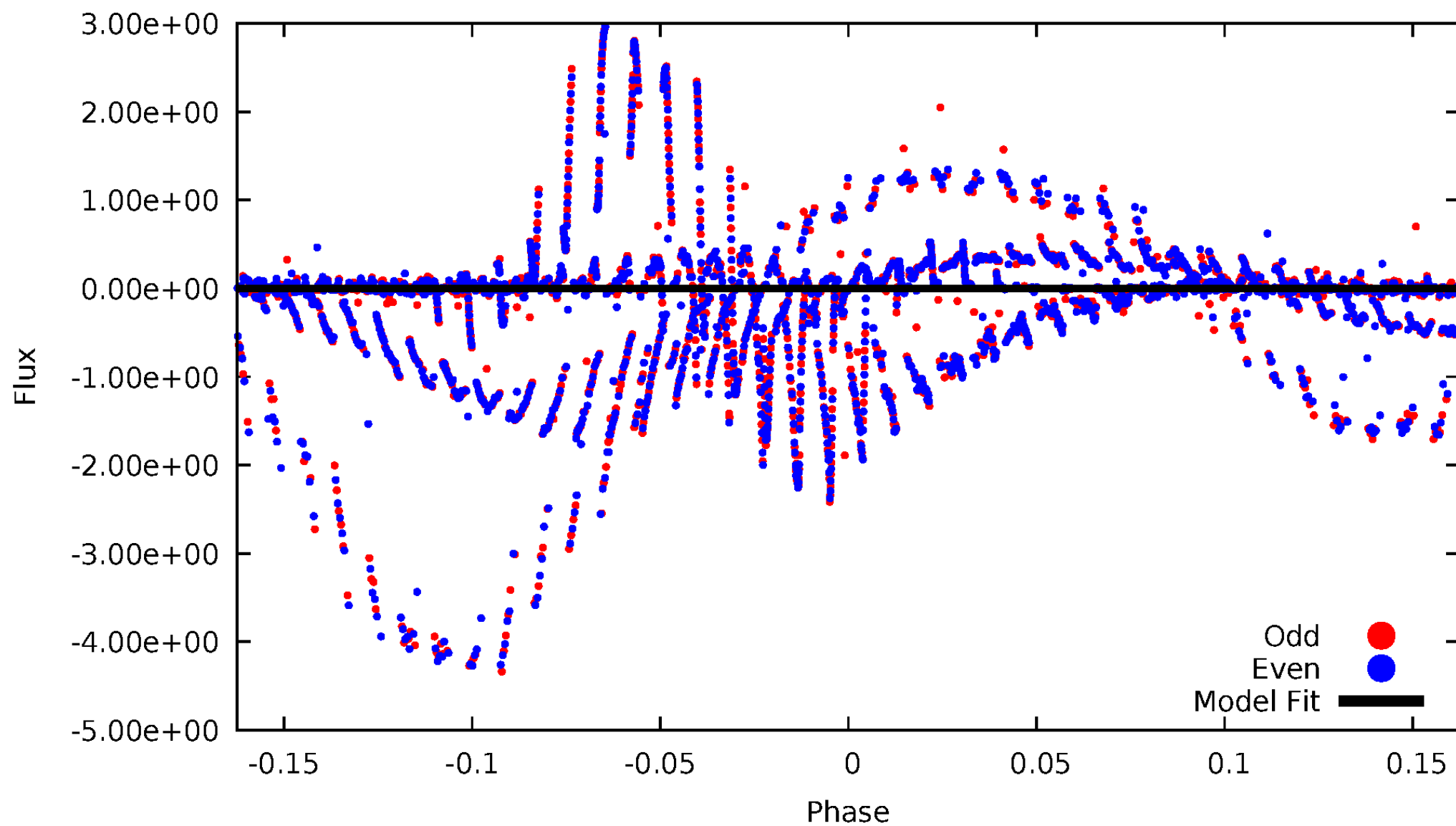


TCE 007259911-01



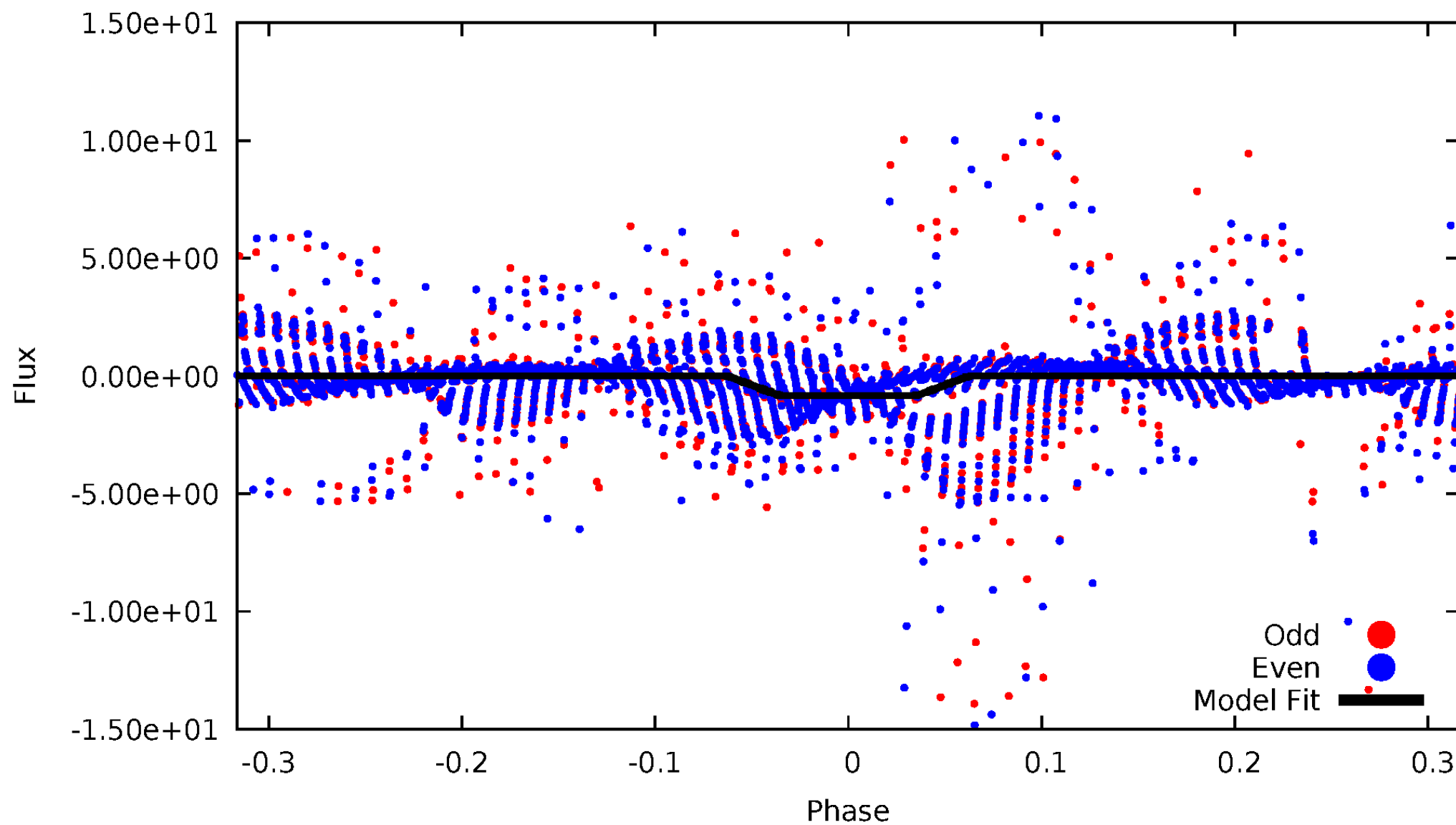
# DV Odd/Even

TCE 007259911-01



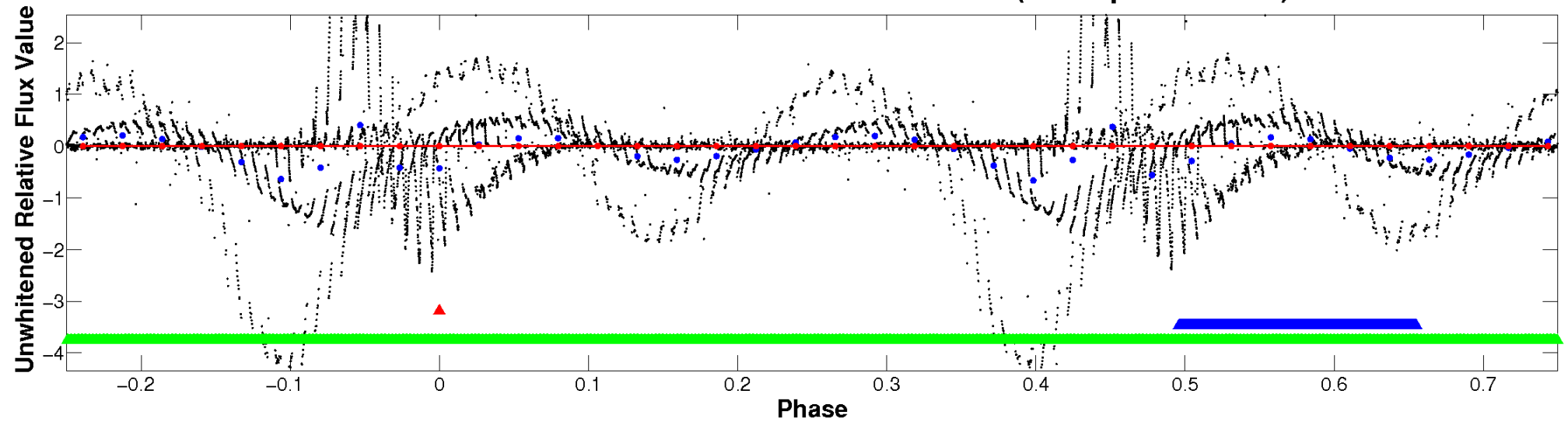
# ALT Odd/Even

TCE 007259911-01



# Non-Whitened Vs. Whitened Light Curve

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

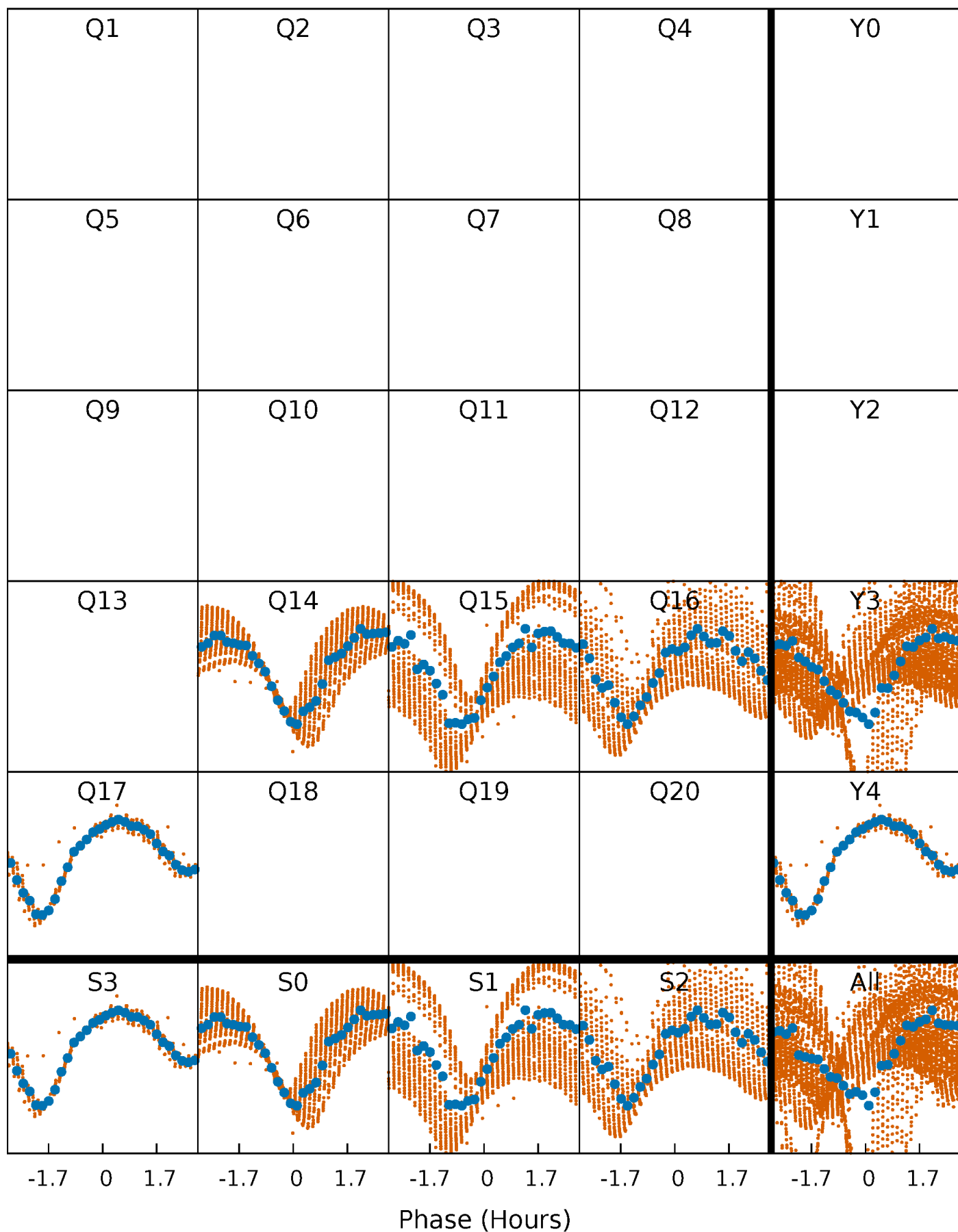


**Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)**



# PDC Quarter-Phased Transit Curves

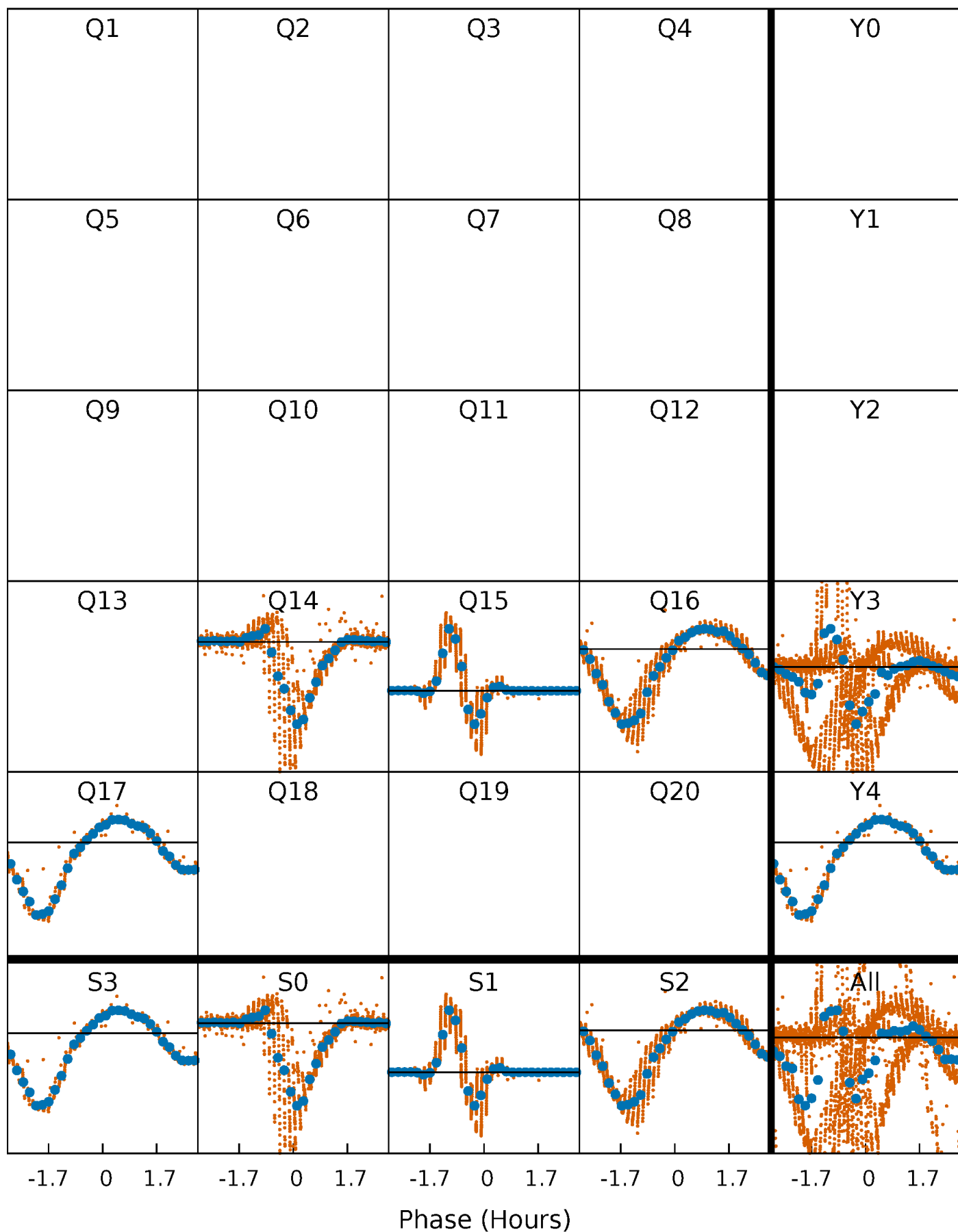
TCE 007259911-01 P= 0.769623 Days  $T_0=131.932869$  (BKJD)





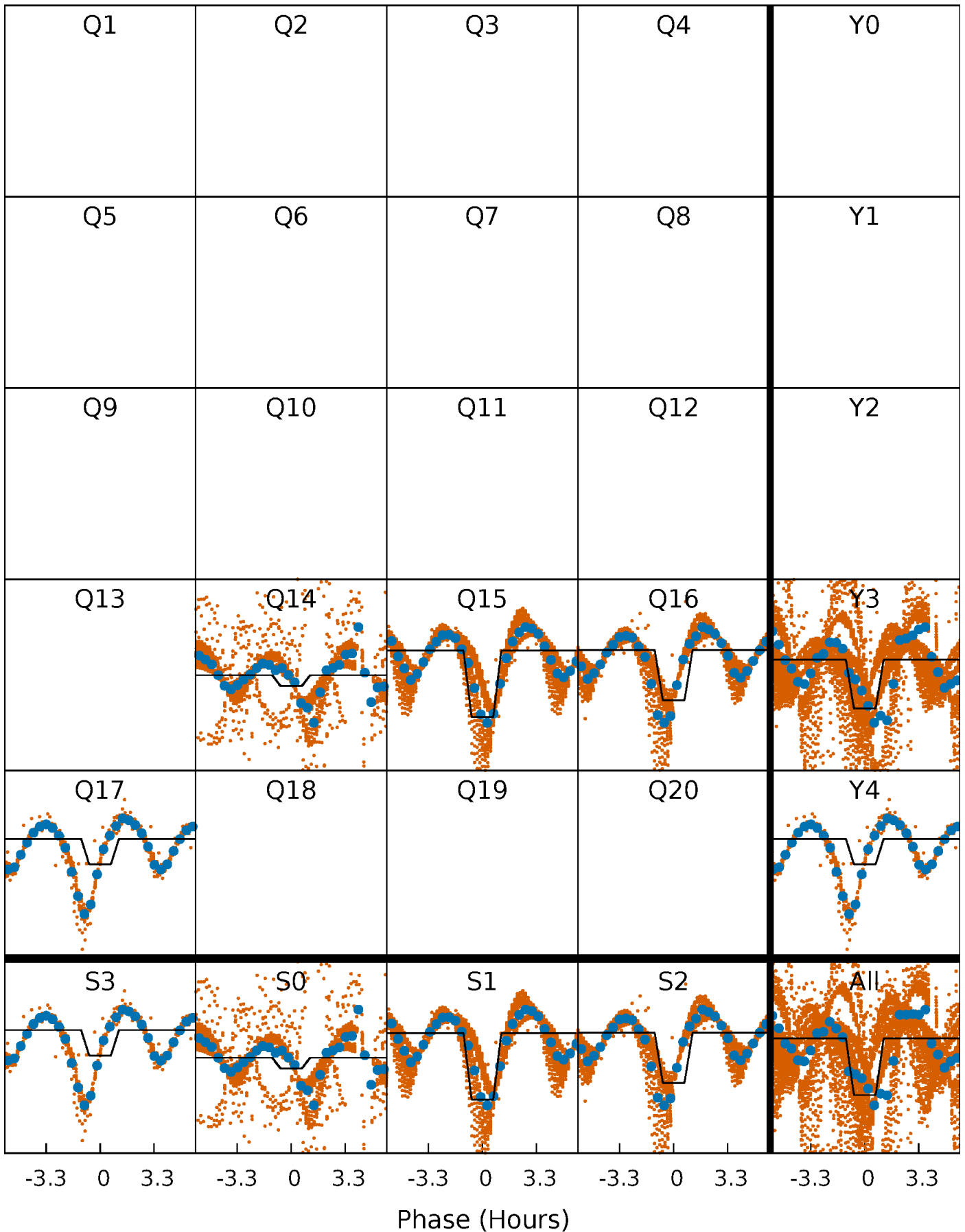
# DV Quarter-Phased Transit Curves

TCE 007259911-01 P= 0.769623 Days  $T_0=131.932869$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

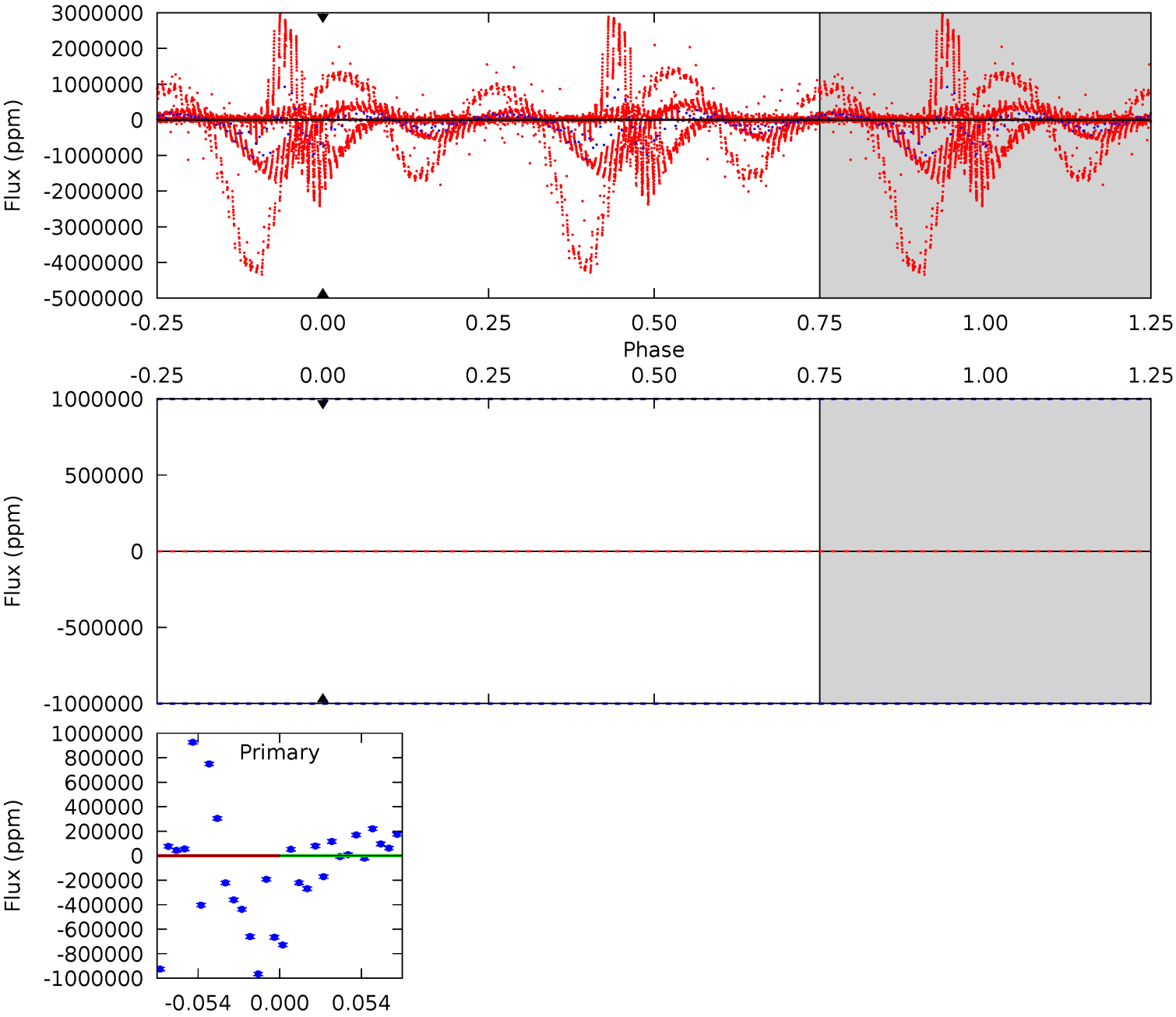
TCE 007259911-01     $P = 0.769623$  Days     $T_0 = 131.889288$  (BKJD)



# DV Model-Shift Uniqueness Test

007259911-01, P = 0.769623 Days, E = 131.932869 Days

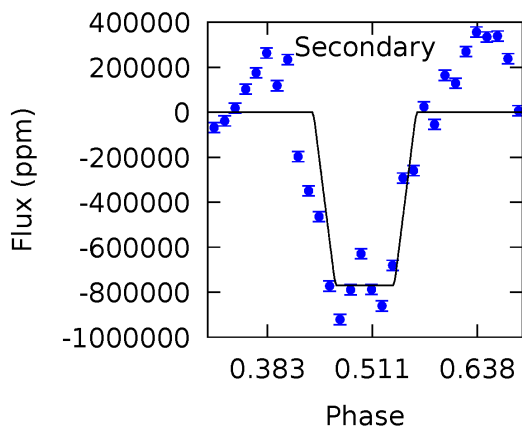
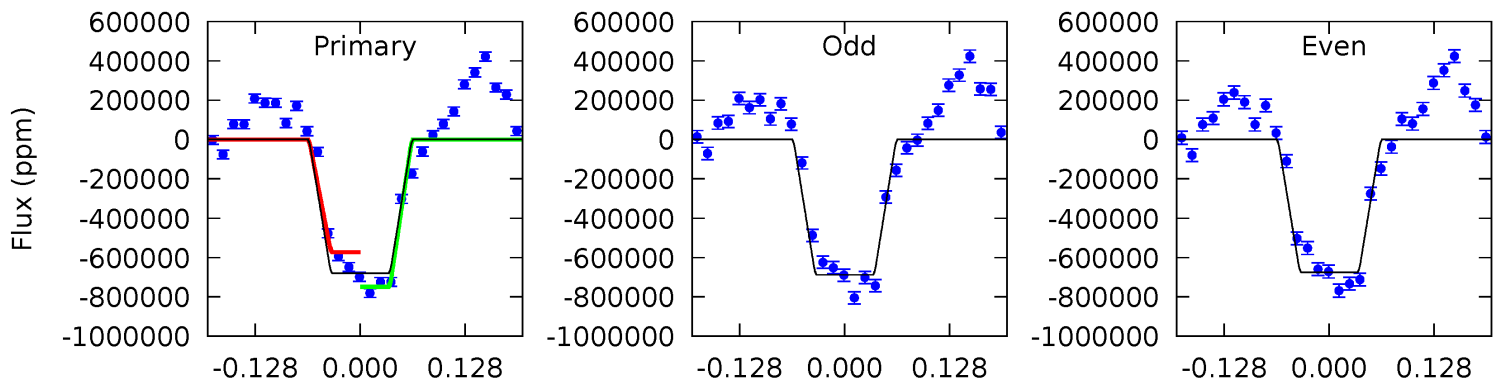
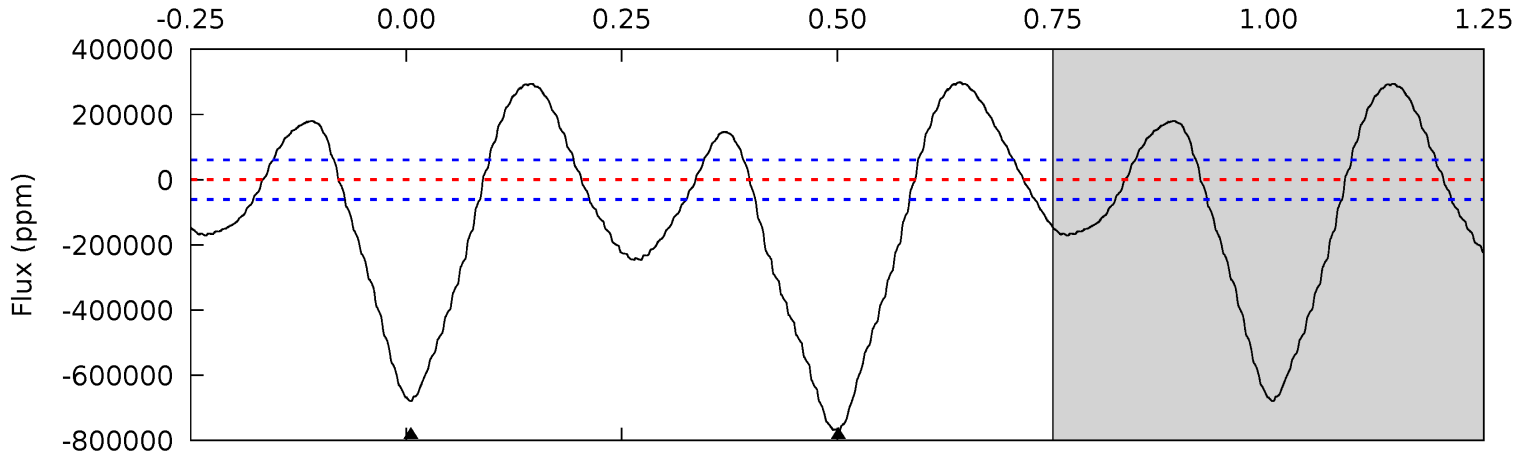
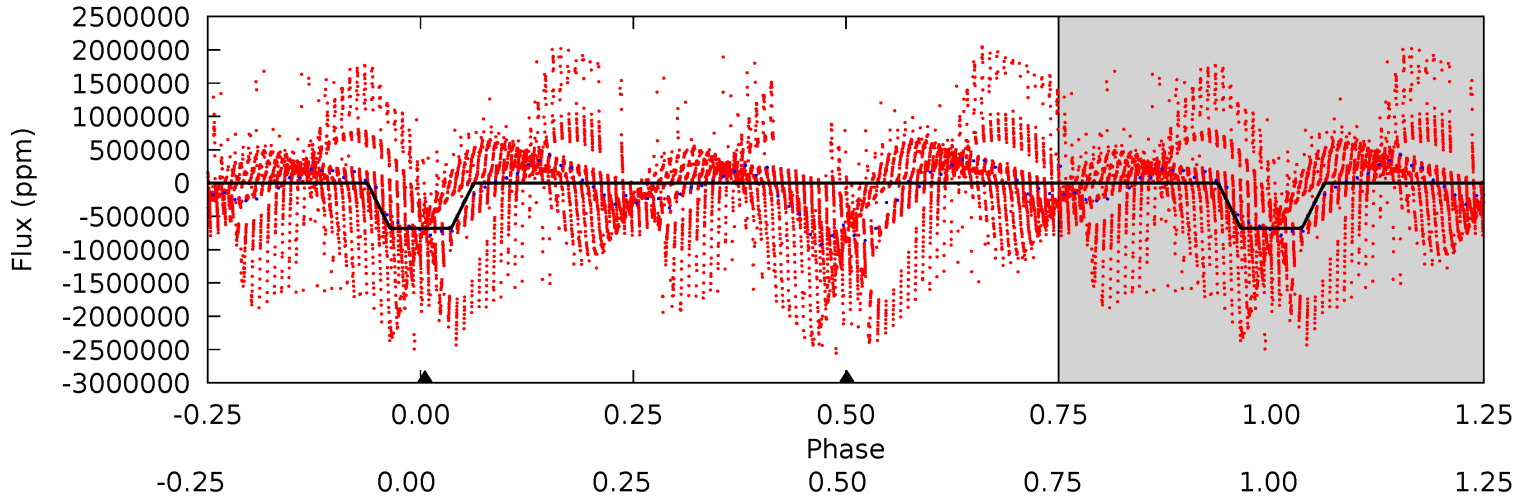
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

007259911-01, P = 0.769623 Days, E = 131.889288 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
50.7	57.4	0	0	4.51	1.52	12.5	50.7	50.7	57.4	57.4	0.51	1.05	0.28	6.72



### Stellar Parameters For KIC 007259911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$5865^{+176}_{-194}$	$4.407^{+0.105}_{-0.195}$	$-0.140^{+0.300}_{-0.300}$	$1.009^{+0.286}_{-0.154}$	$0.948^{+0.132}_{-0.108}$	$1.299^{+0.626}_{-0.679}$
	+3%/-3%	+2%/-4%	+214%/-214%	+28%/-15%	+14%/-11%	+48%/-52%
Source	KIC0	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 007259911-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$0 \pm 1000000$	$41.11^{+12.21}_{-12.79}$	$2899^{+202}_{-179}$	$2877^{+2865}_{-8380}$	$0.466^{+9.739}_{-8.901}$
Alt.	$-769449 \pm 13394$	$102.70^{+19.76}_{-15.73}$	$2876^{+221}_{-157}$	$8656^{+798}_{-707}$	$46^{+17}_{-13}$

$T_{max}$  = 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  $A_{obs} \gg 1.0$

## DV Centroid Data

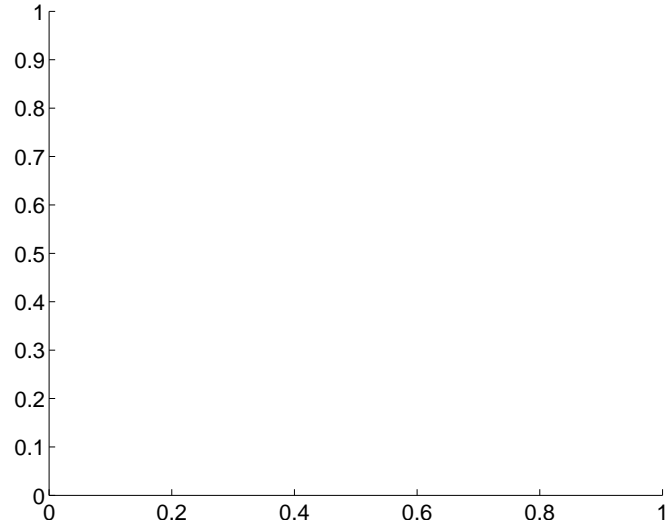
Supplemental centroid analysis for 007259911-01. Kepler magnitude: 16.76. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

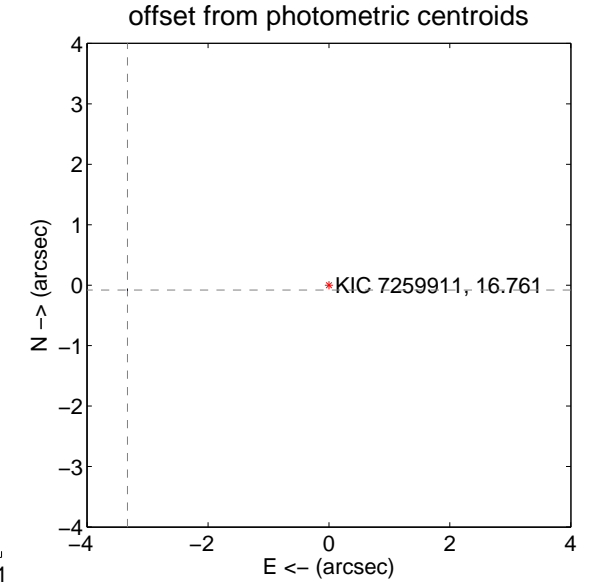
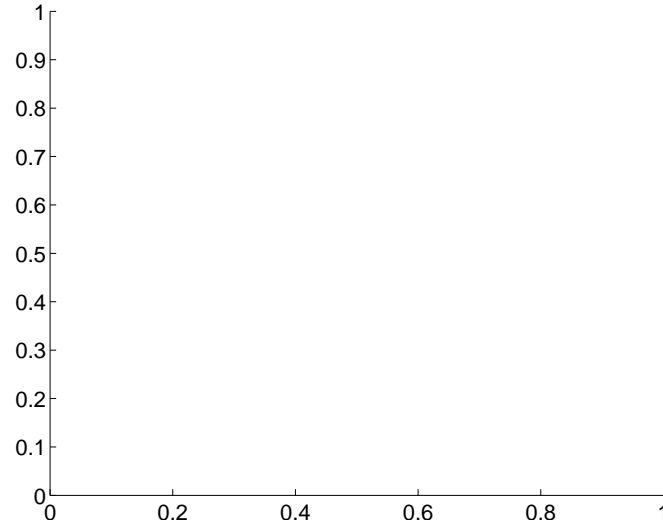
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	$3.33 \pm 0.00$	$6842.78$	$3.33 \pm 0.00$	$-0.08 \pm 0.00$

There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . Red \*: target star. Blue \*: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.





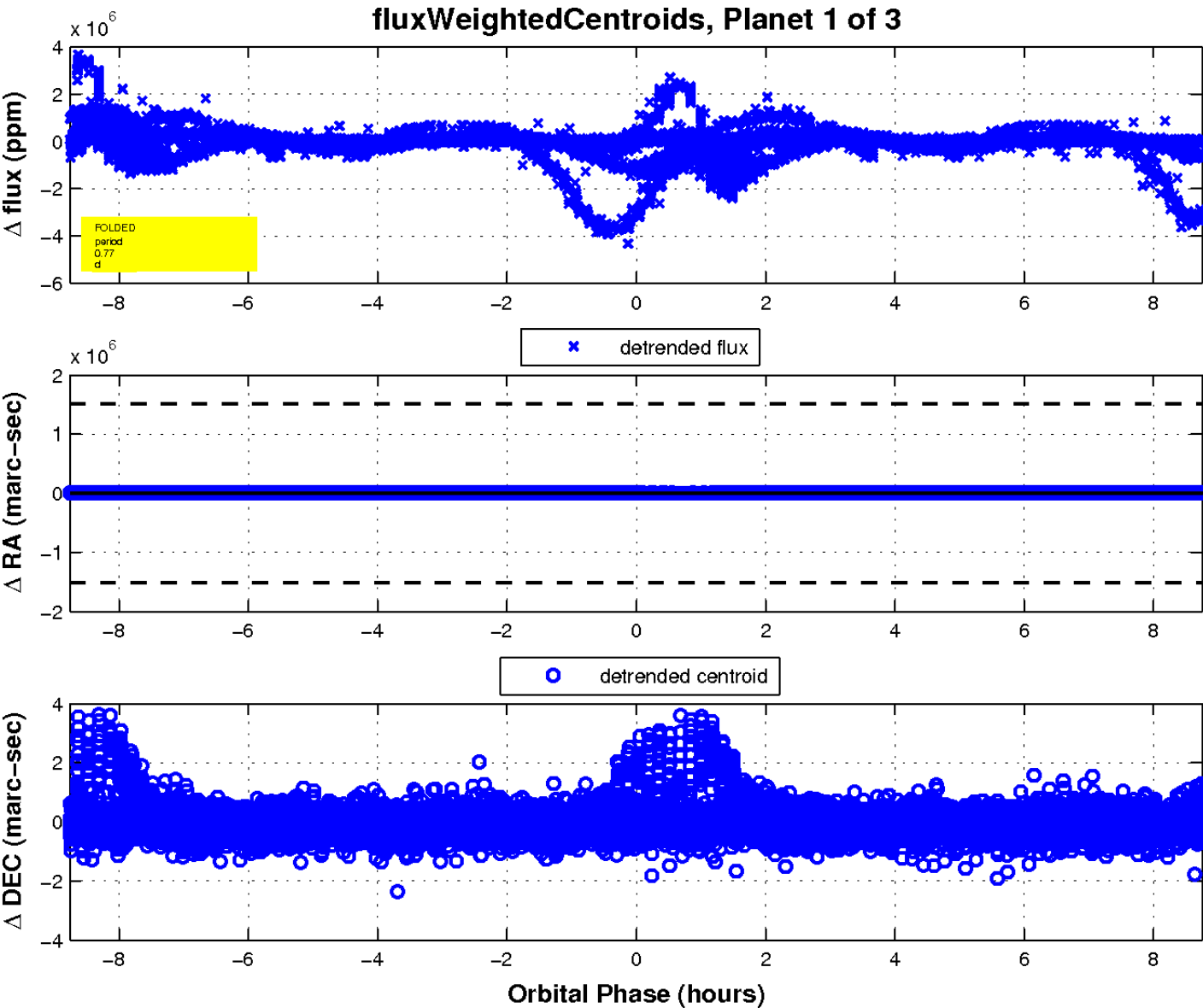
white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

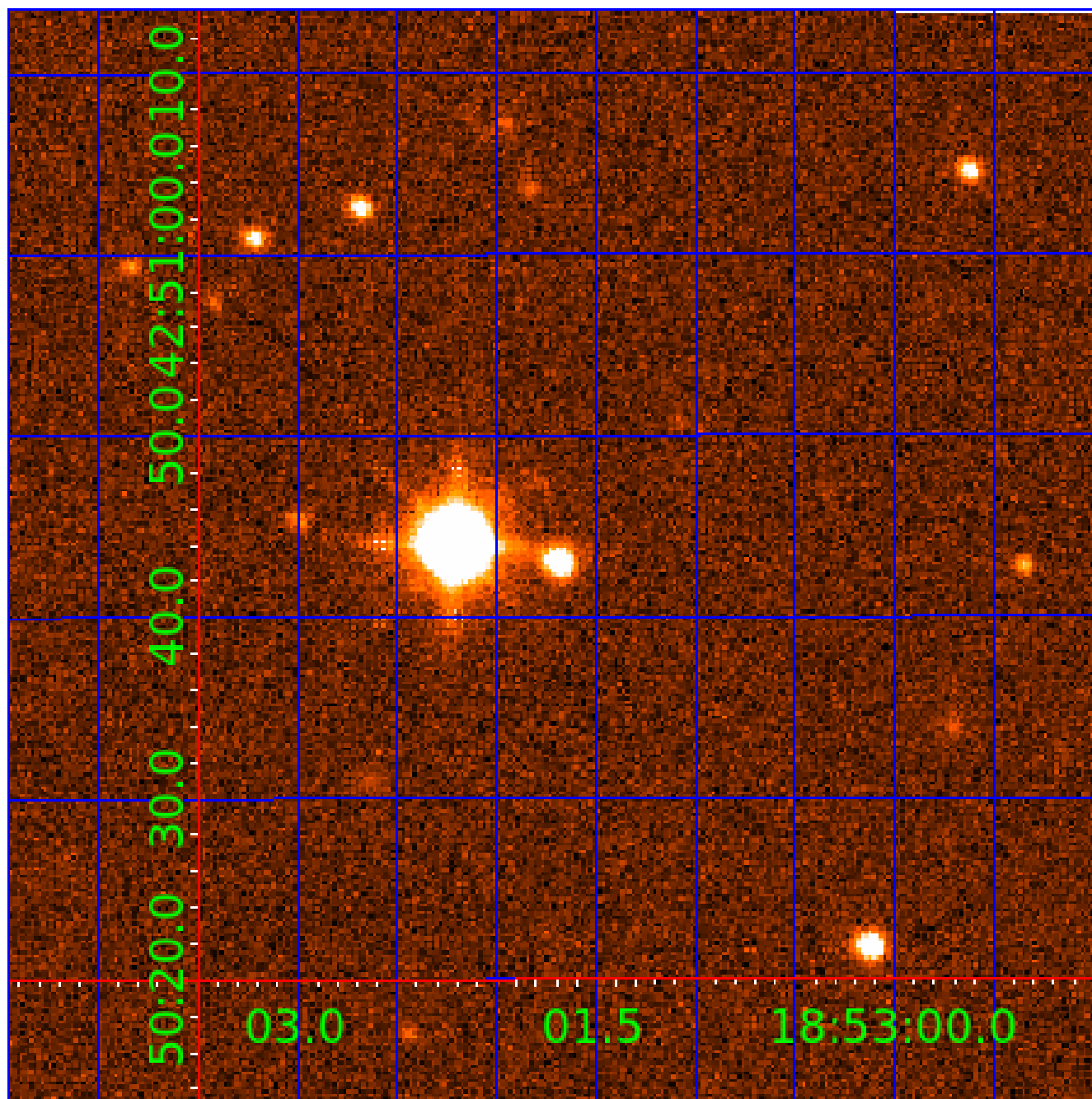


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



UKIRT Image

Declination



# KIC 007259911

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
007259911-01	OBS	No	0.769623	131.932869	151143.8	1.500	423.3	-1.0	1.01	5865	39.62	4138.63
007259911-02	OBS	No	0.769558	131.667444	83939.9	2.000	197.1	-1.0	1.01	5865	29.28	4139.09
007259911-03	OBS	No	0.769175	131.898494	0.0	1.500	23.4	-1.0	1.01	5865	9.80	4141.84

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007259911-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS
007259911-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS
007259911-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_NOFITS

**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.

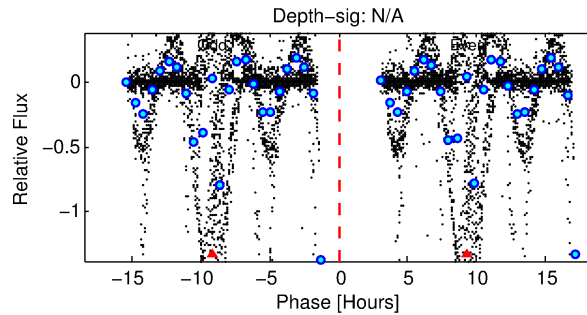
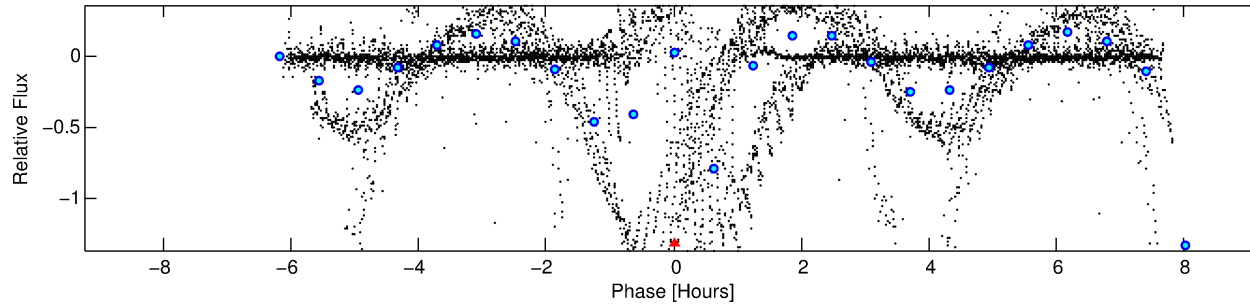
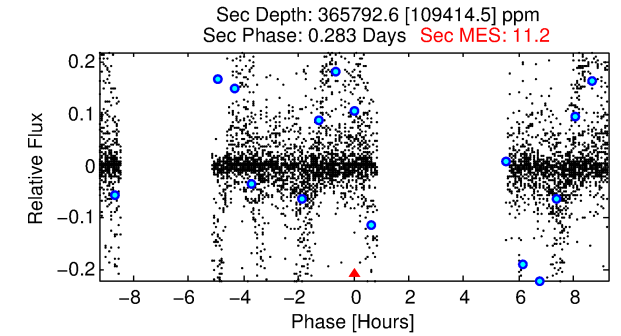
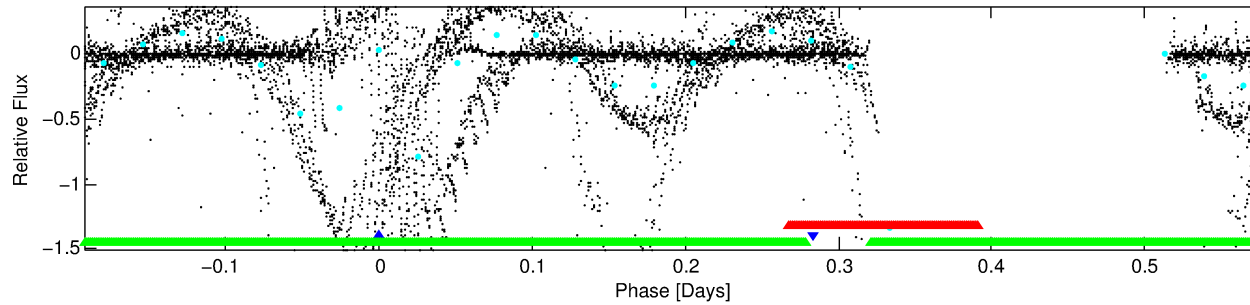
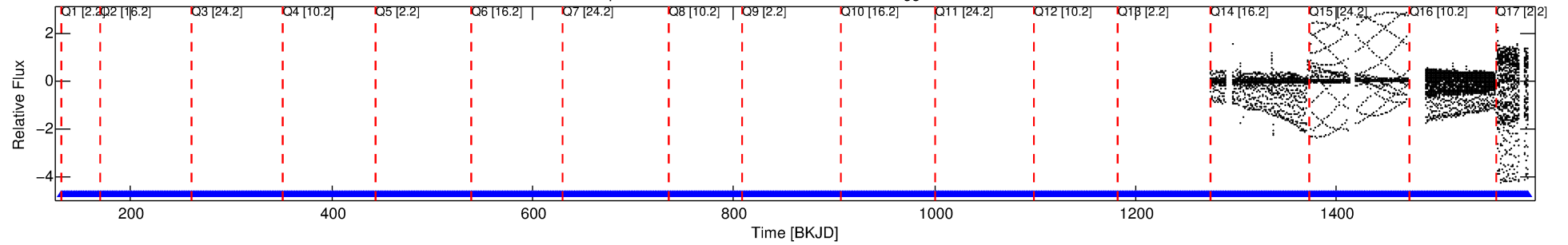
## Ephemeris Match Information For 007259911-02

No Significant Match Found

# DV One-Page Summary

KIC: 7259911 Candidate: 2 of 3 Period: 0.770 d

Kp: 16.76 R\*: 1.01 Rs Teff: 5865.0 K Logg: 4.41 Fe/H: -0.140



## TPS TCE Results:

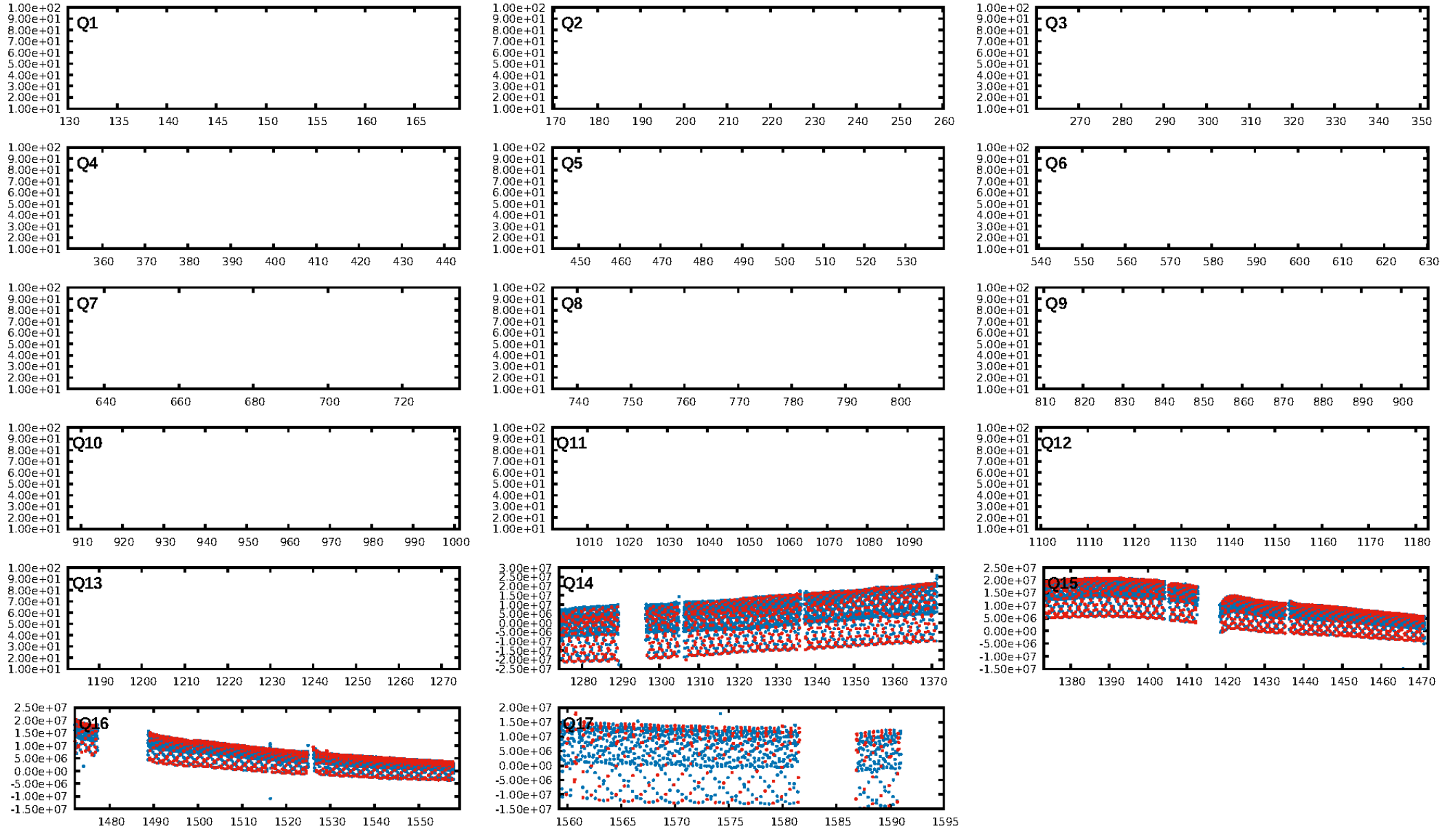
Period = 0.76956 d  
Epoch = 131.6674 BKJD

DV fit results are unavailable

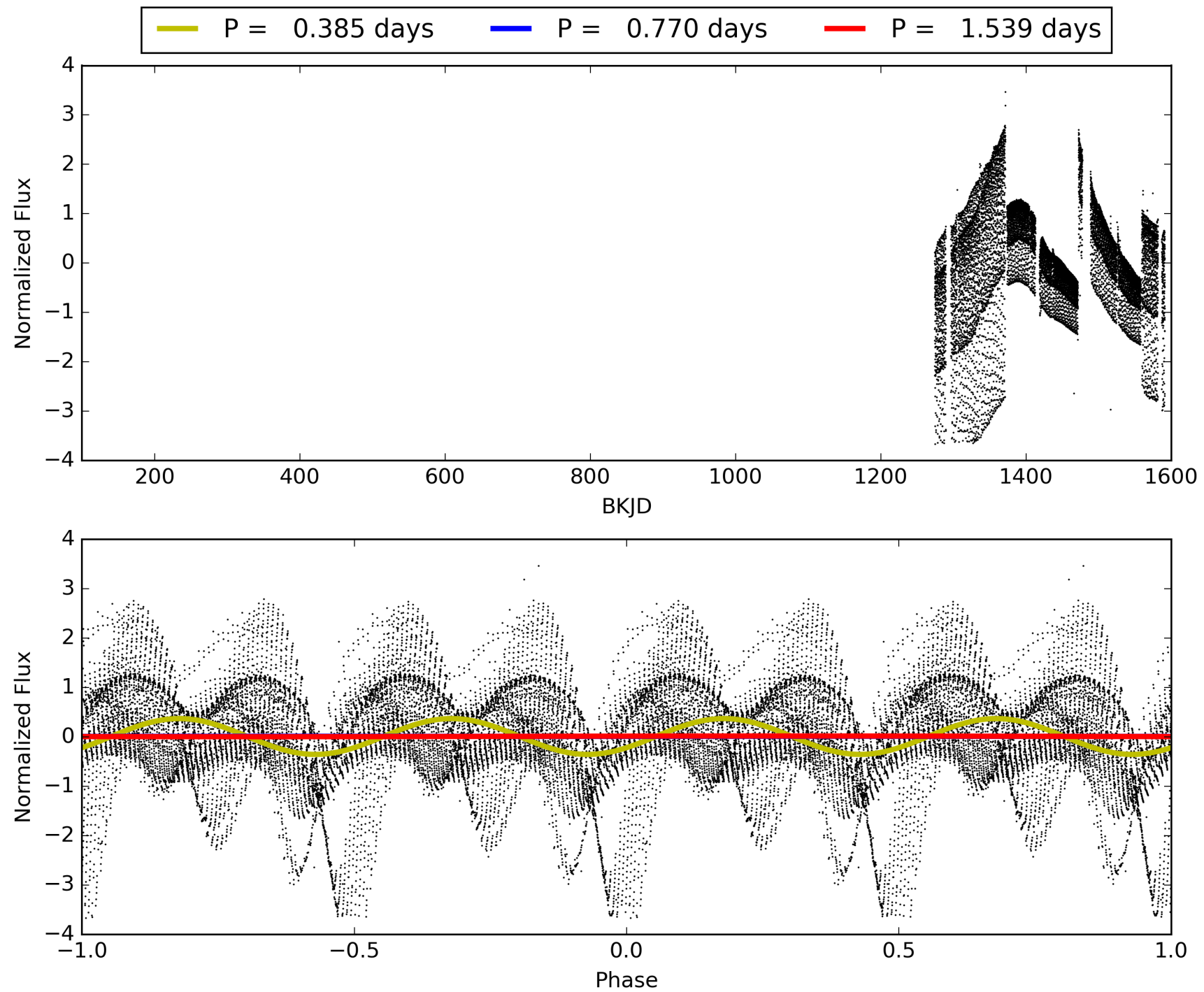
## DV Diagnostic Results:

ShortPeriod-sig: 0.3% [0.00σ]  
LongPeriod-sig: 0.0% [0.00σ]  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: 0.00e+00  
RollingBand-fgt: N/A  
GhostDiagnostic-chr: -6.388  
Centroid-sig: N/A  
Centroid-so: 3.331 arcsec [6927.35σ]  
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 007259911-02, PDC Light Curves



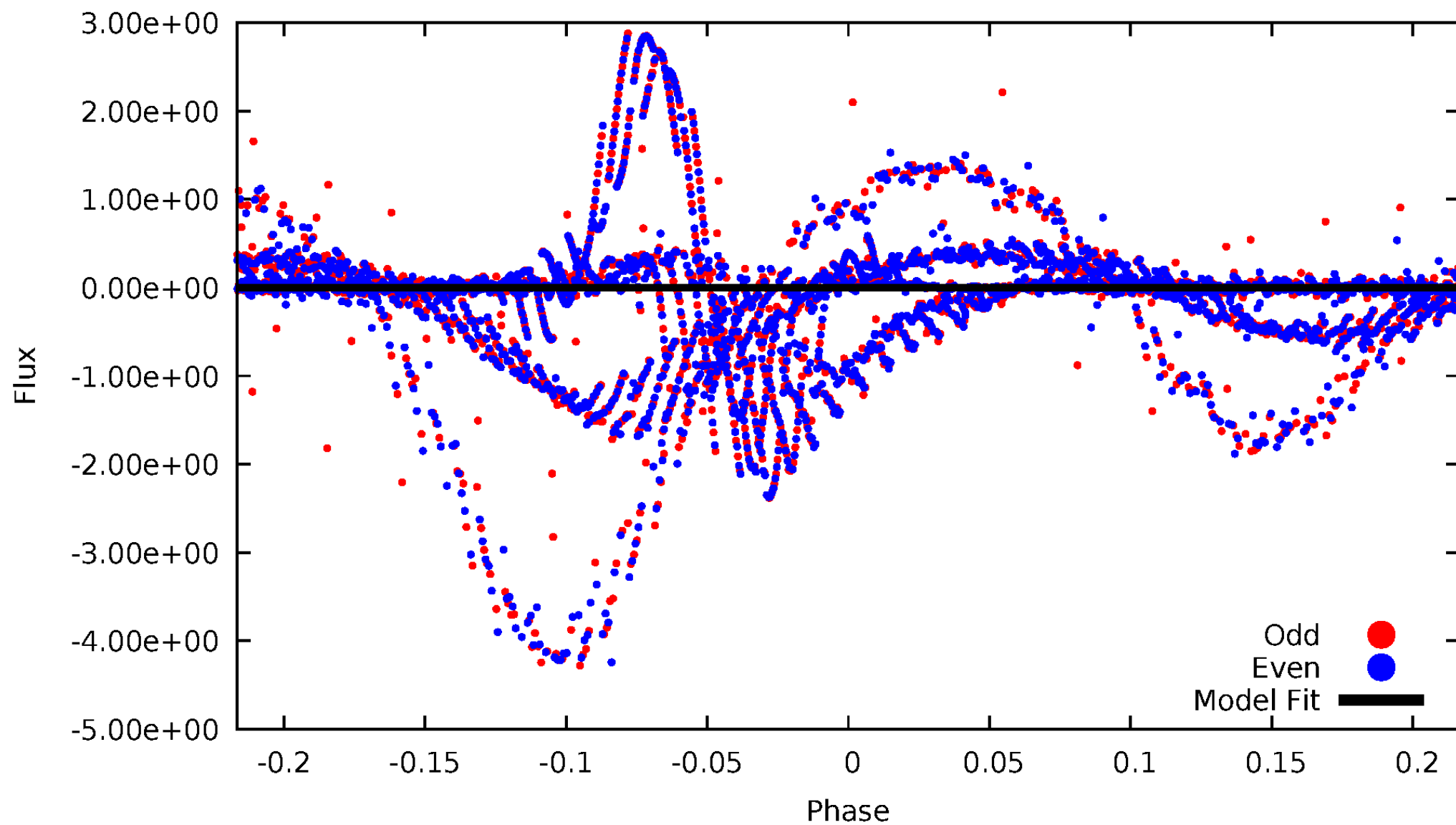
# TCE 007259911-02





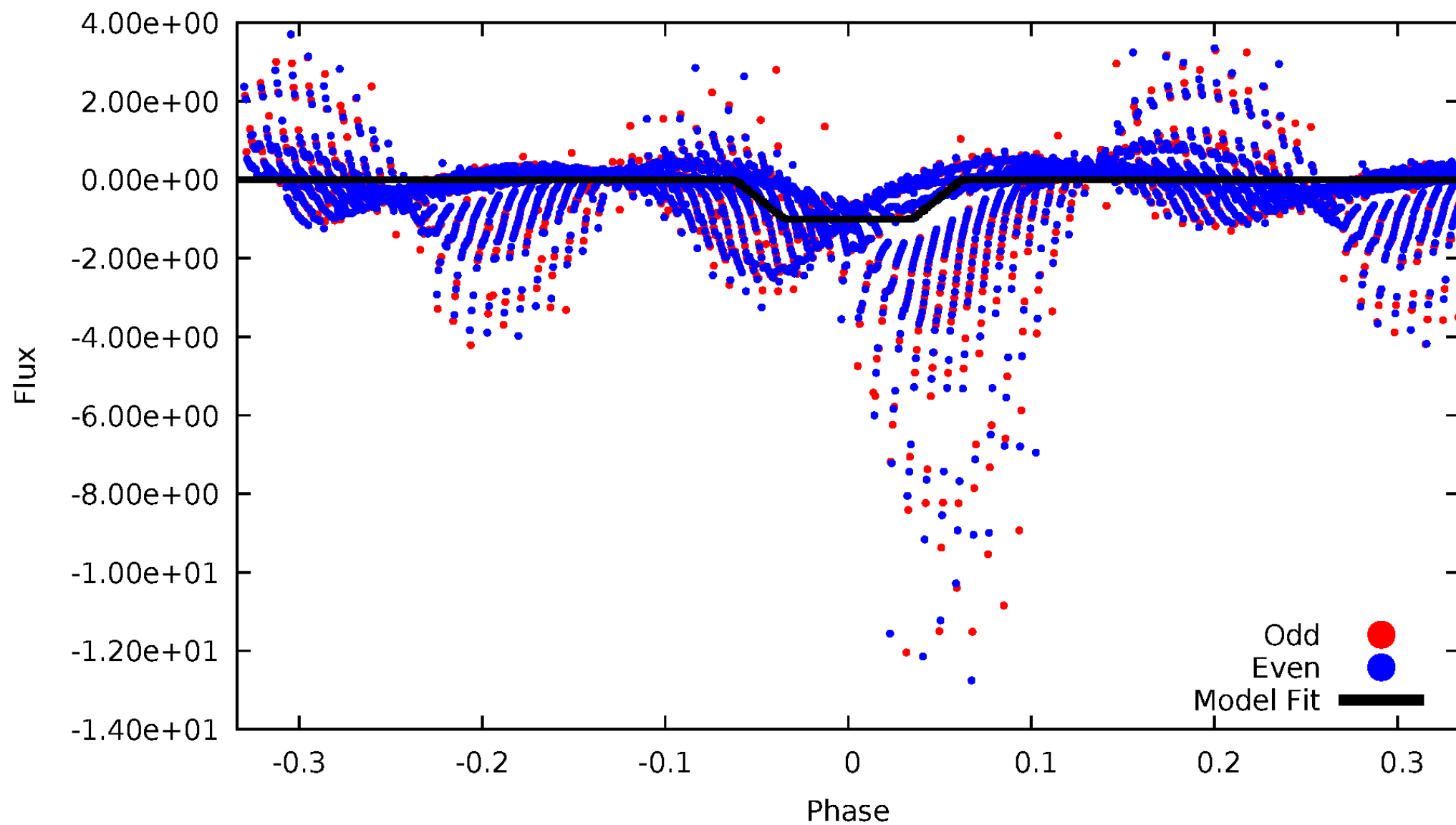
DV Odd/Even

TCE 007259911-02



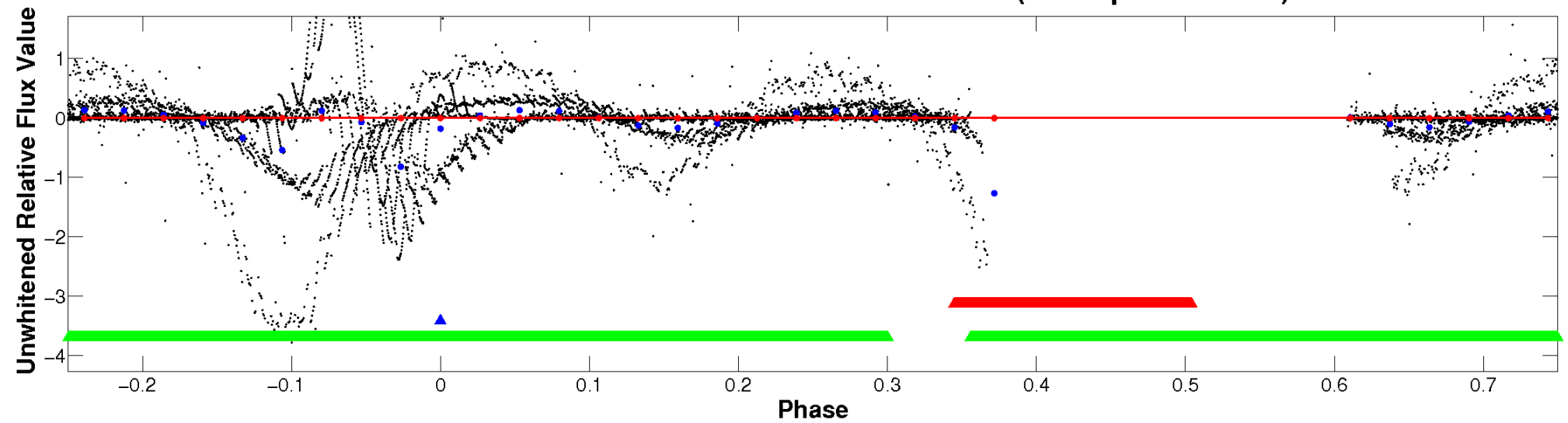
# ALT Odd/Even

TCE 007259911-02



# Non-Whitened Vs. Whitened Light Curve

**Planet 2 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)**

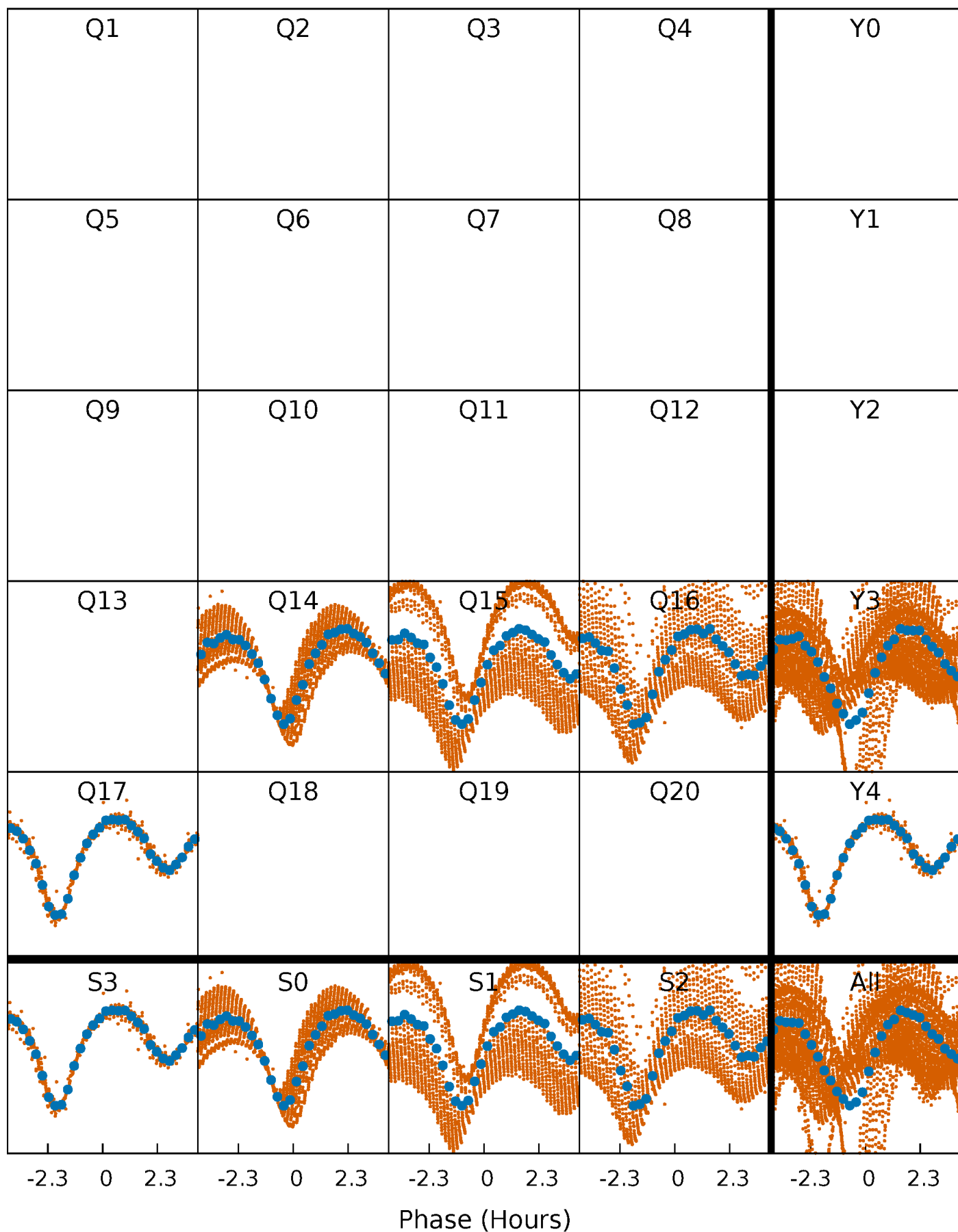


**Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)**



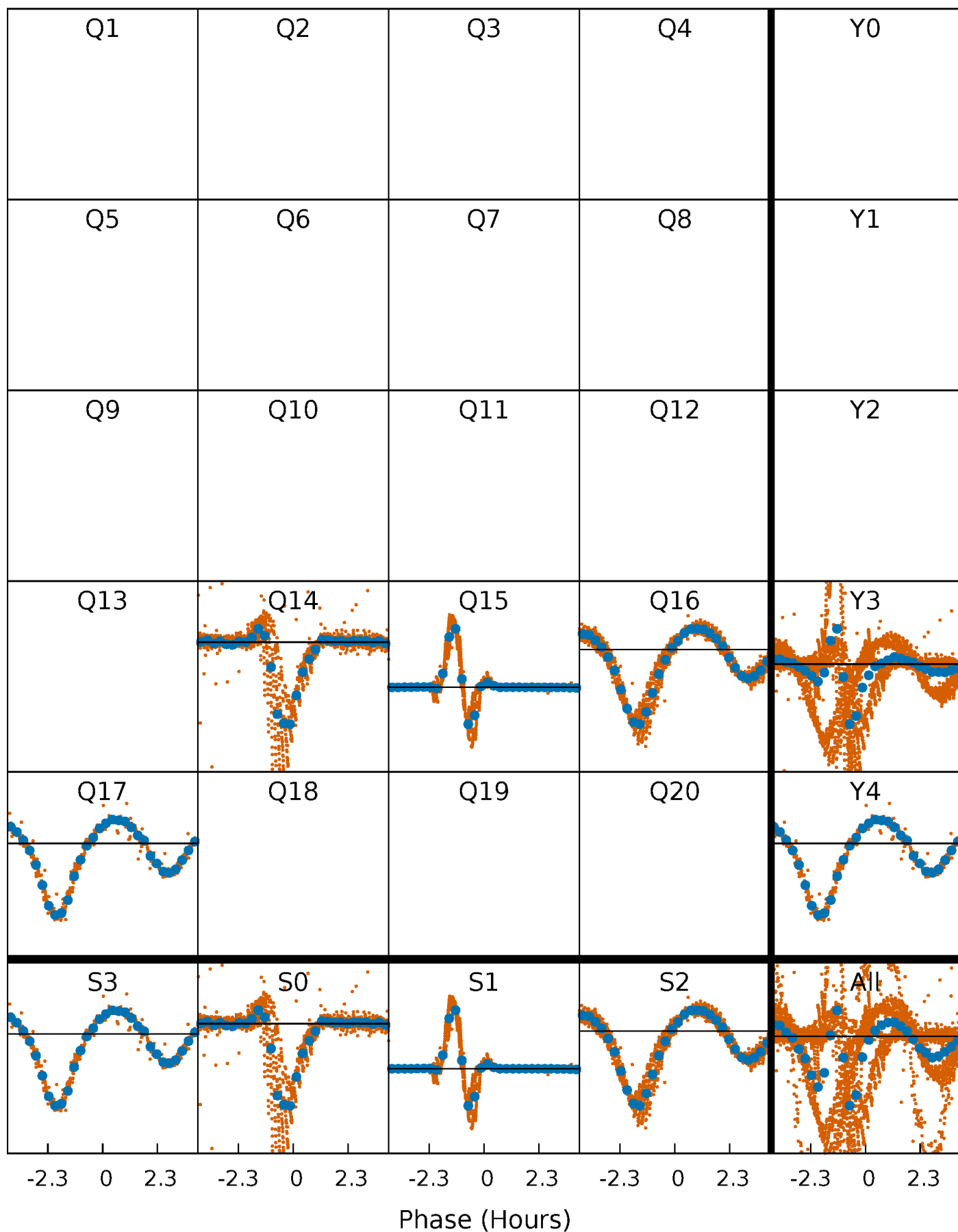
# PDC Quarter-Phased Transit Curves

TCE 007259911-02   P= 0.769558 Days    $T_0=131.667444$  (BKJD)



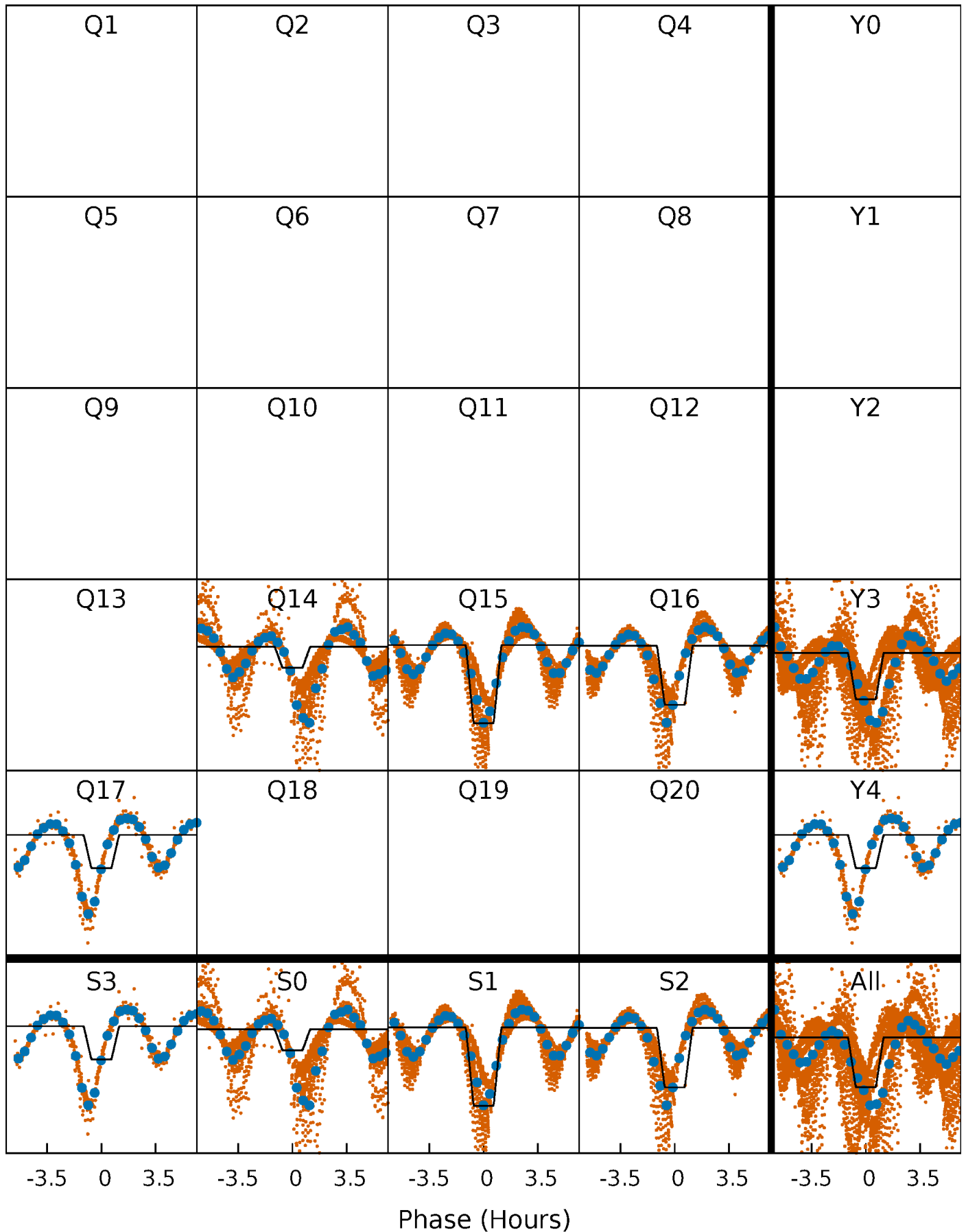
# DV Quarter-Phased Transit Curves

TCE 007259911-02   P= 0.769558 Days    $T_0=131.667444$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

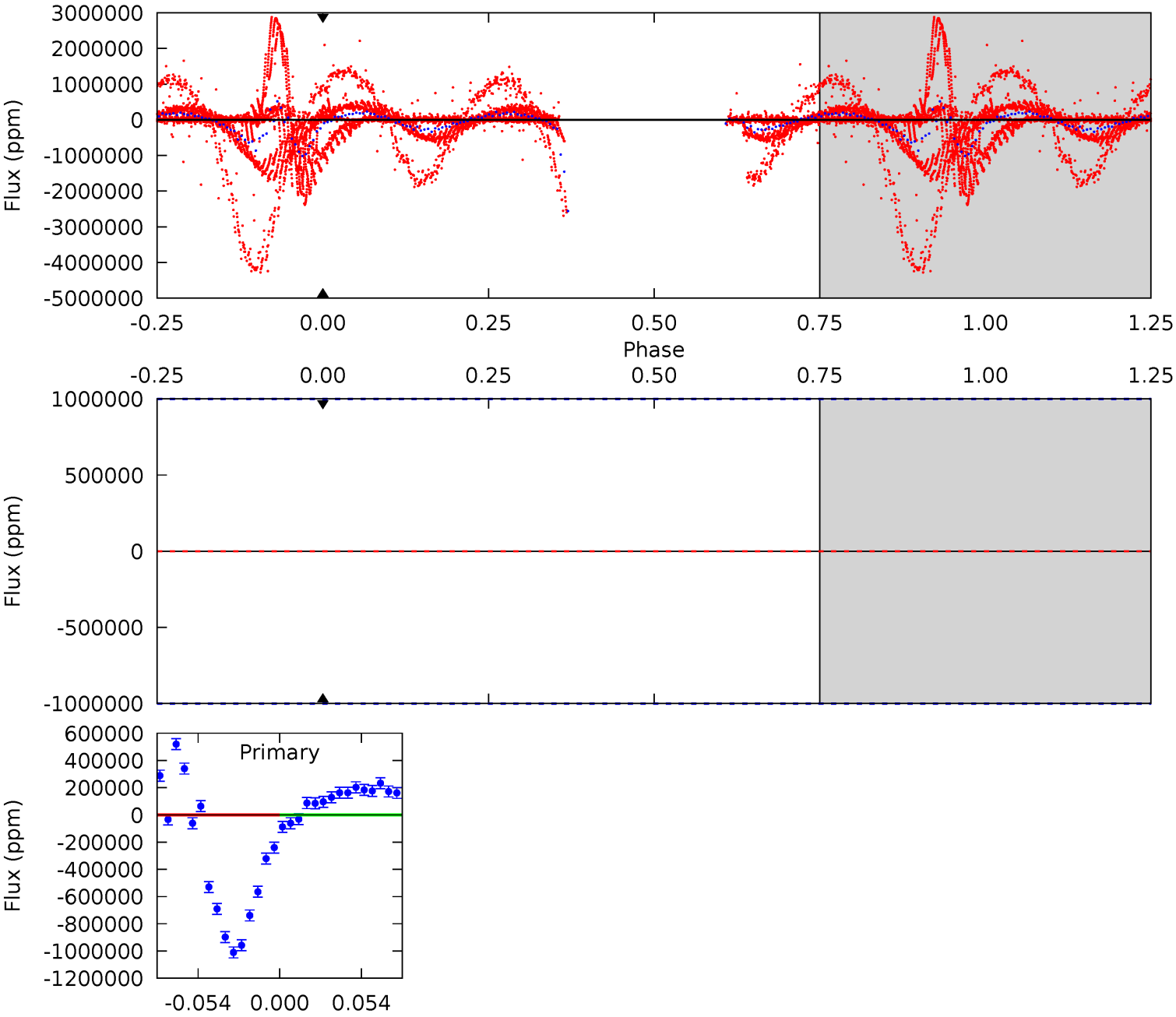
TCE 007259911-02     $P = 0.769558$  Days     $T_0 = 131.621421$  (BKJD)



# DV Model-Shift Uniqueness Test

007259911-02, P = 0.769558 Days, E = 131.667444 Days

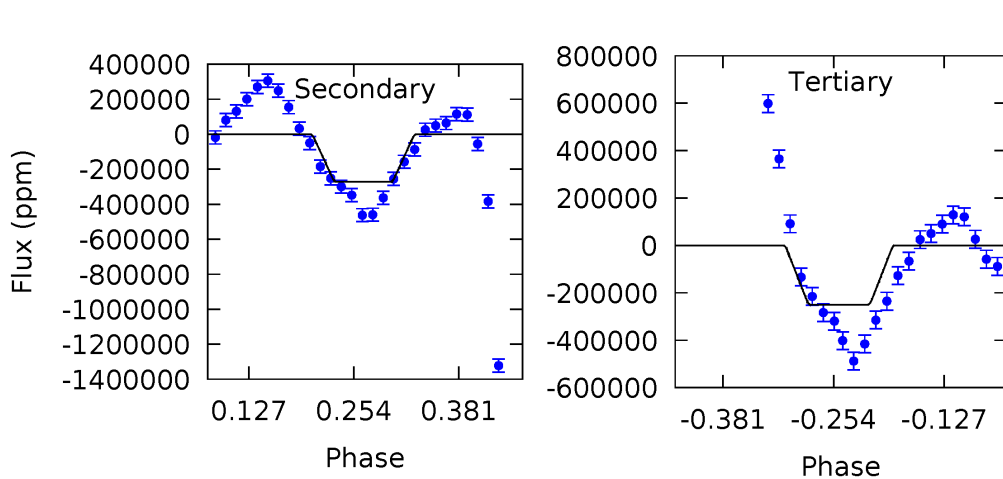
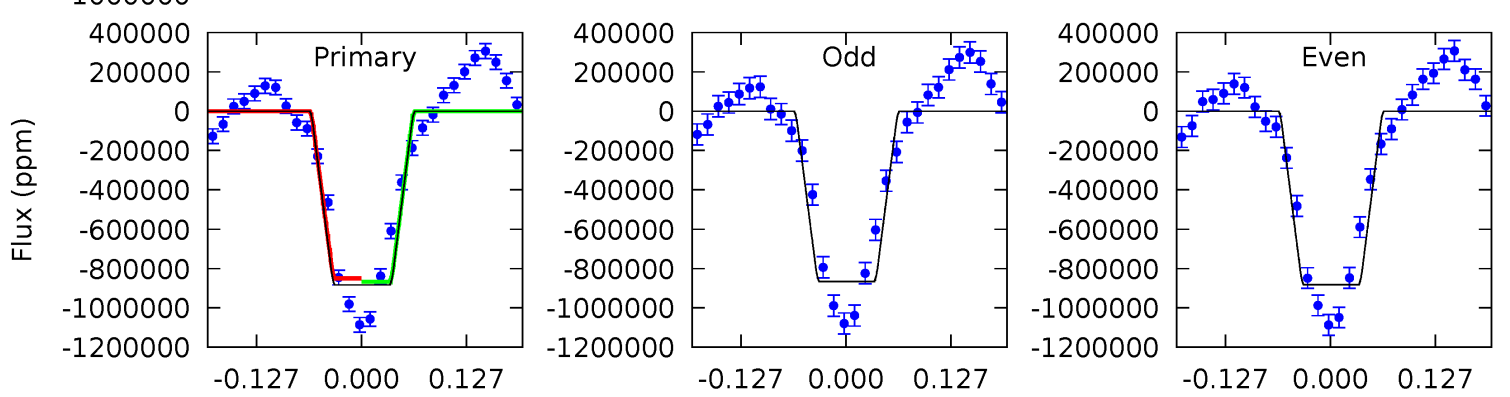
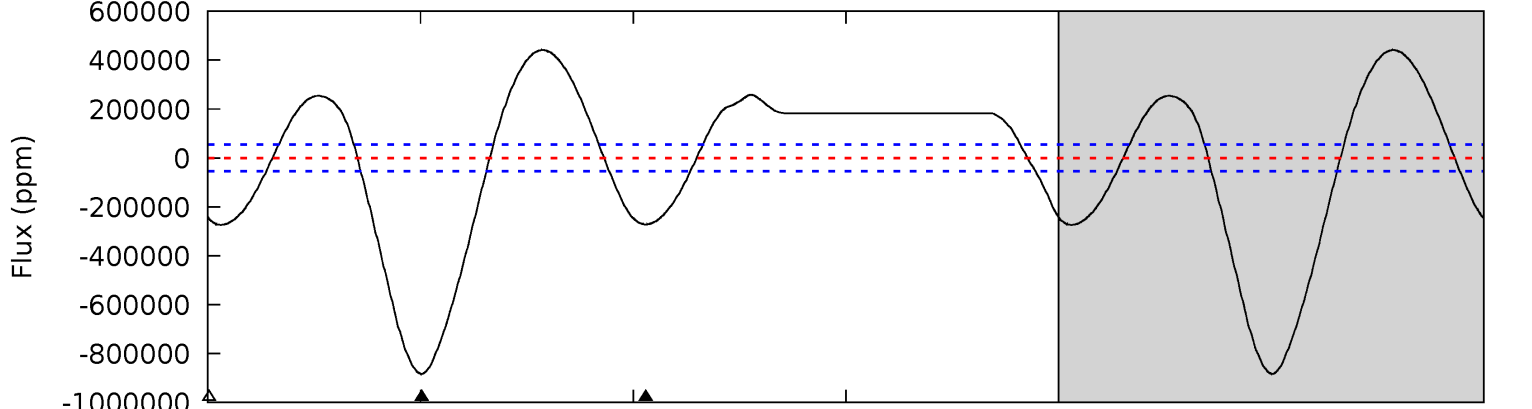
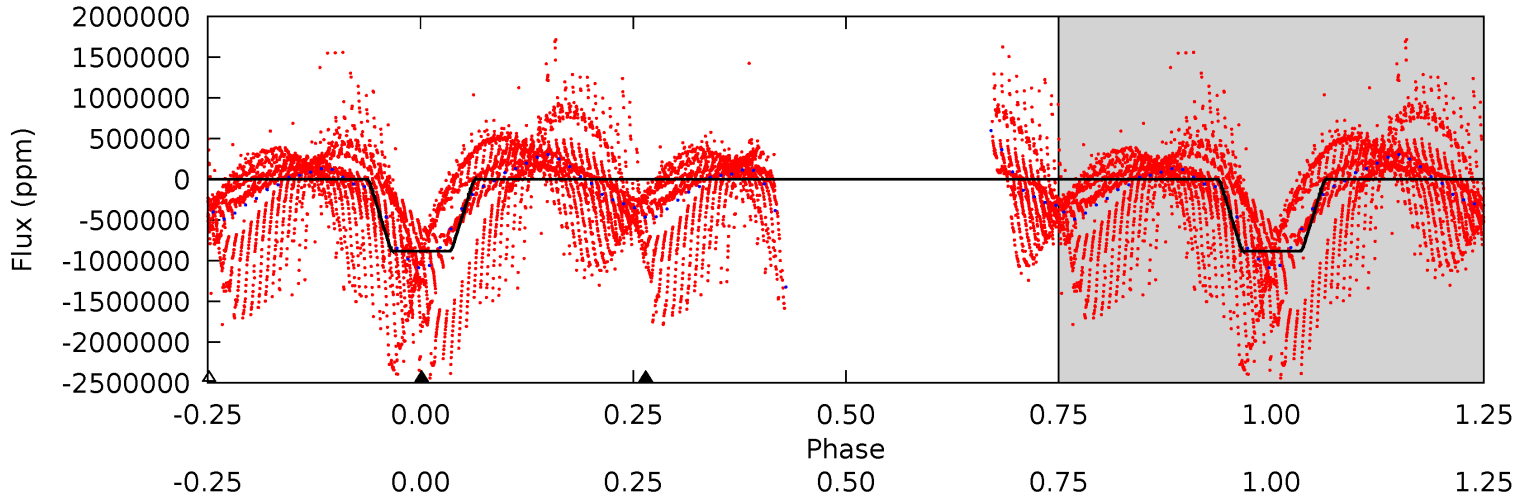
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

007259911-02, P = 0.769558 Days, E = 131.621421 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
72.8	22.4	20.6	0	4.51	1.53	16.5	52.2	72.8	1.83	22.4	0.72	1.10	0.33	0.78





### Stellar Parameters For KIC 007259911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$5865^{+176}_{-194}$	$4.407^{+0.105}_{-0.195}$	$-0.140^{+0.300}_{-0.300}$	$1.009^{+0.286}_{-0.154}$	$0.948^{+0.132}_{-0.108}$	$1.299^{+0.626}_{-0.679}$
	+3%/-3%	+2%/-4%	+214%/-214%	+28%/-15%	+14%/-11%	+48%/-52%
Source	KIC0	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 007259911-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$0 \pm 1000000$	$29.37^{+13.02}_{-10.83}$	$2878^{+221}_{-159}$	$-3180^{+10115}_{-3247}$	$-0.085^{+20.907}_{-15.655}$
Alt.	$-272074 \pm 12132$	$112.72^{+19.87}_{-16.23}$	$2886^{+214}_{-158}$	$4651^{+252}_{-255}$	$4.144^{+1.571}_{-1.123}$

$T_{max}$  = 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  $A_{obs} \gg 1.0$

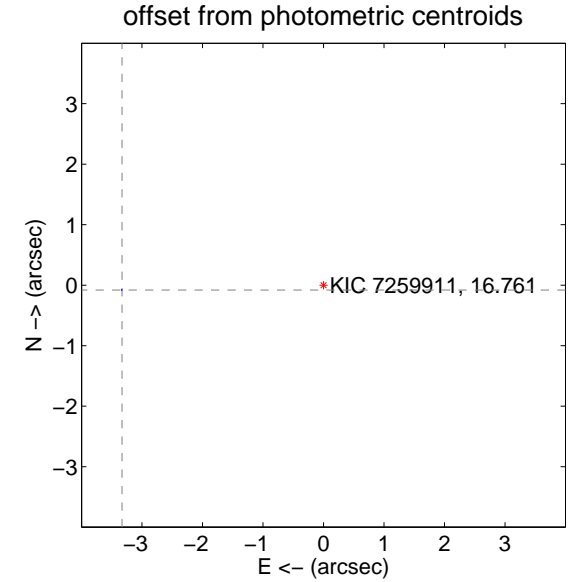
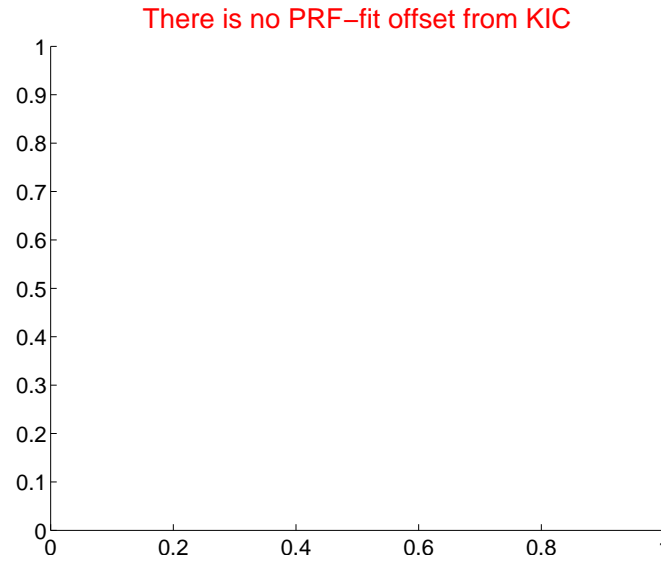
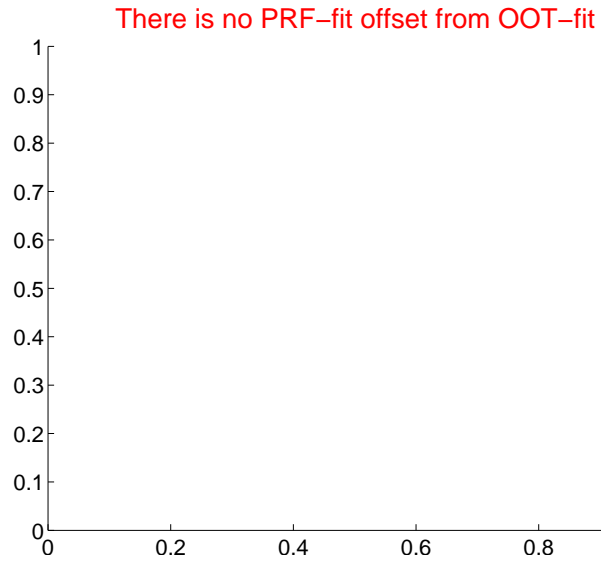
## DV Centroid Data

Supplemental centroid analysis for 007259911-02. Kepler magnitude: 16.76. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	$3.33 \pm 0.00$	$6927.35$	$3.33 \pm 0.00$	$-0.08 \pm 0.00$



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . Red \*: target star. Blue \*: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



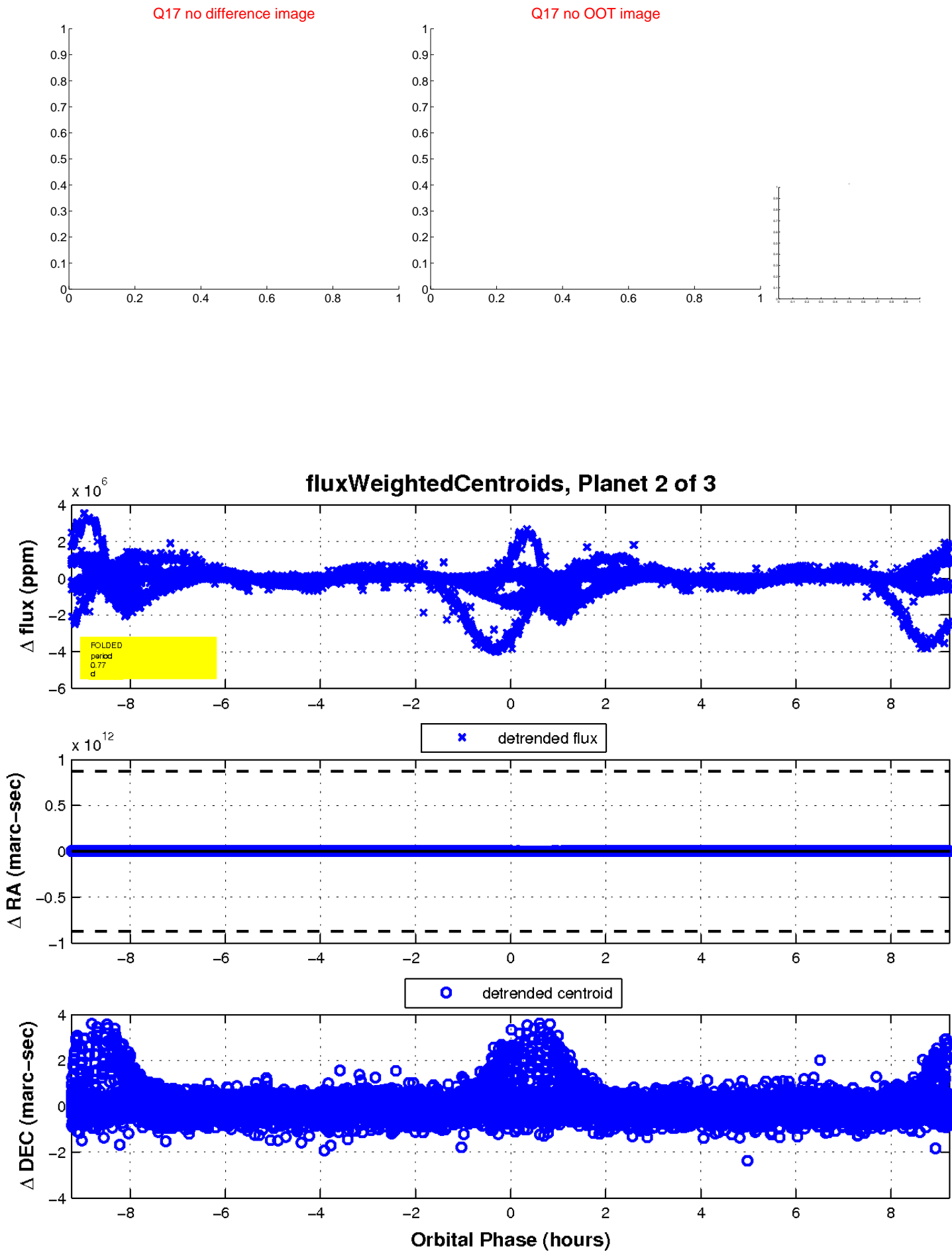
white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

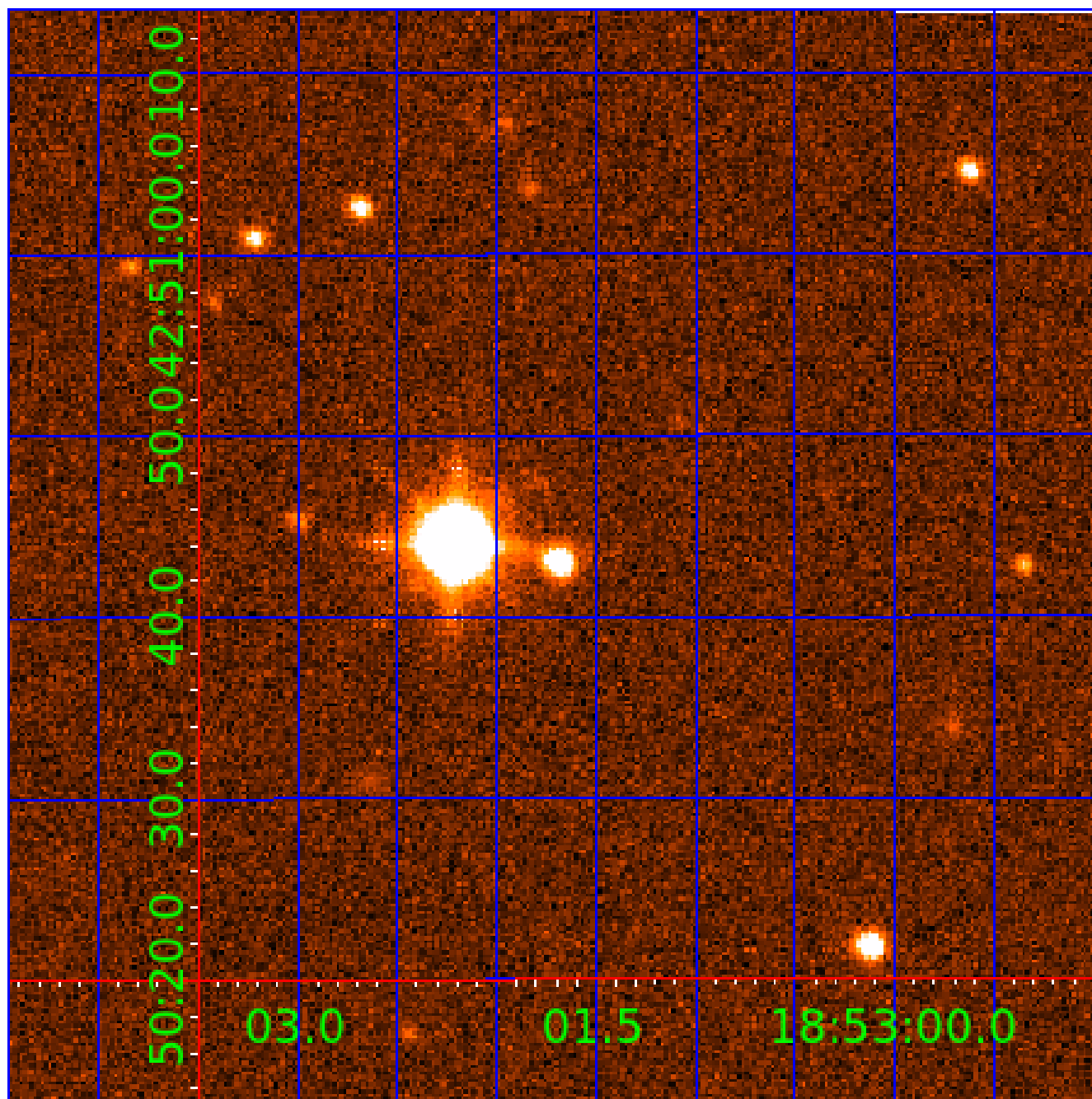


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



UKIRT Image

Declination





# KIC 007259911

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
007259911-01	OBS	No	0.769623	131.932869	151143.8	1.500	423.3	-1.0	1.01	5865	39.62	4138.63
007259911-02	OBS	No	0.769558	131.667444	83939.9	2.000	197.1	-1.0	1.01	5865	29.28	4139.09
007259911-03	OBS	No	0.769175	131.898494	0.0	1.500	23.4	-1.0	1.01	5865	9.80	4141.84

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007259911-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS
007259911-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS
007259911-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_NOFITS

**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.

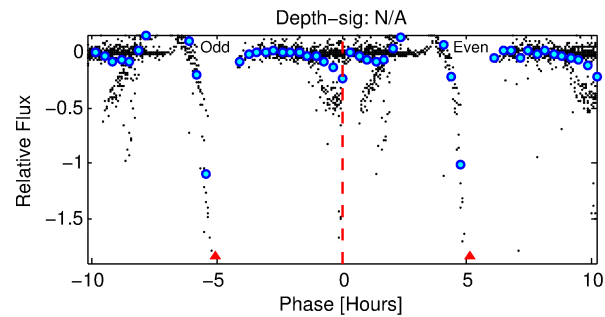
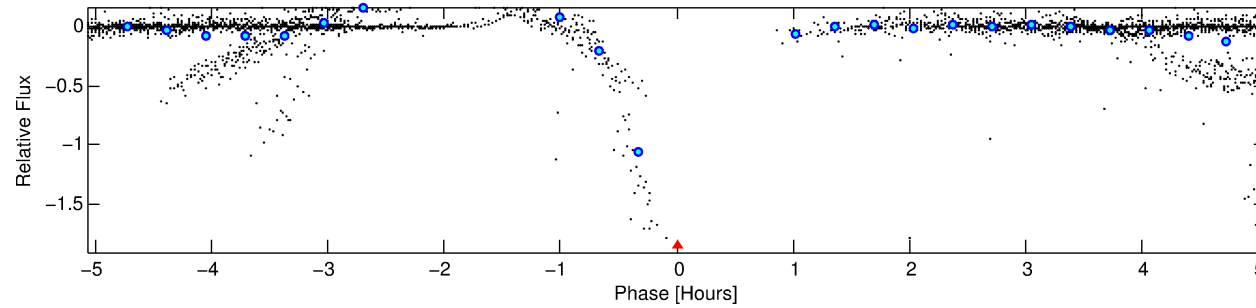
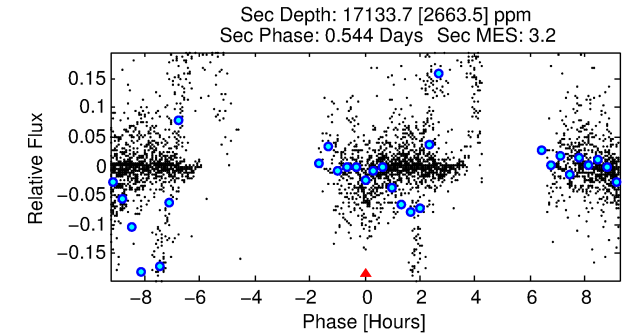
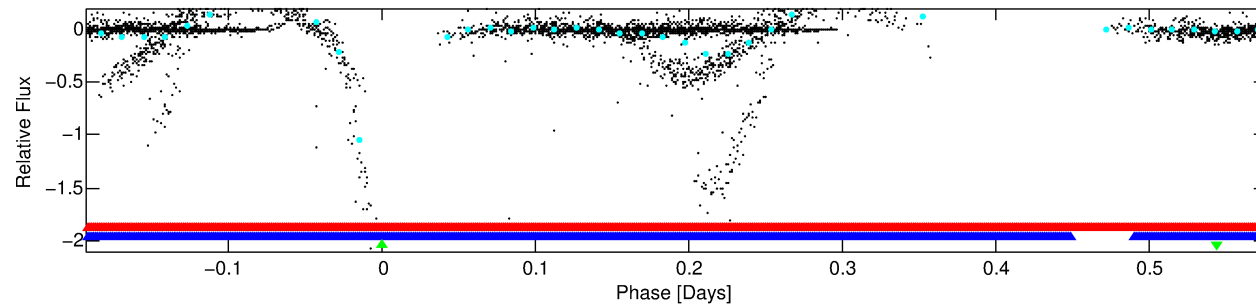
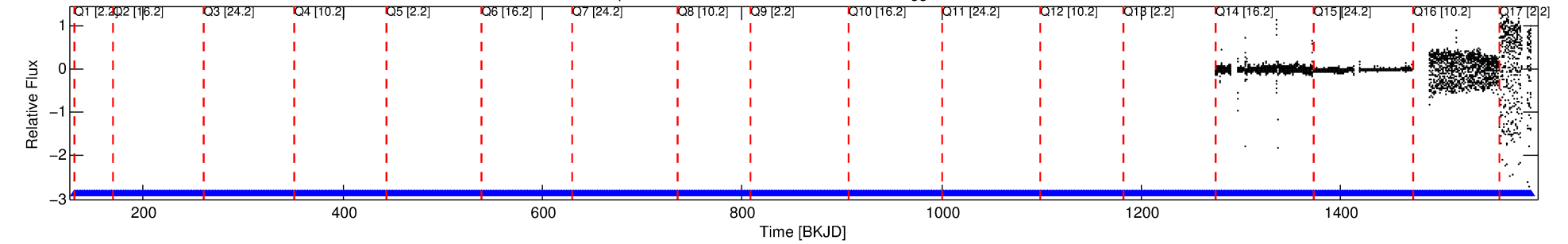
## Ephemeris Match Information For 007259911-03

No Significant Match Found

# DV One-Page Summary

KIC: 7259911 Candidate: 3 of 3 Period: 0.769 d

Kp: 16.76 R\*: 1.01 Rs Teff: 5865.0 K Logg: 4.41 Fe/H: -0.140



## TPS TCE Results:

Period = 0.76918 d  
Epoch = 131.8985 BKJD

DV fit results are unavailable

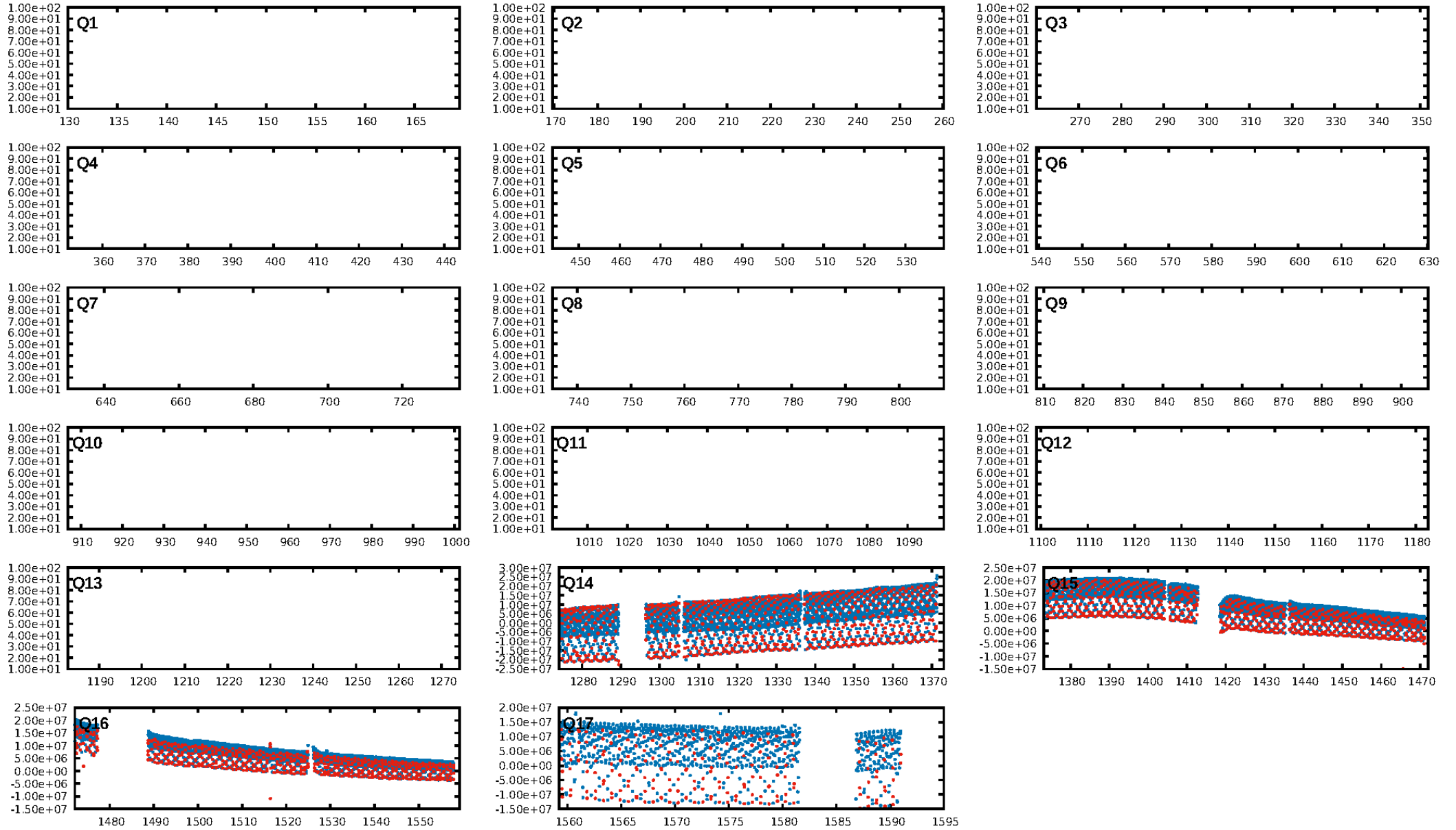
## DV Diagnostic Results:

ShortPeriod-sig: N/A  
LongPeriod-sig: 0.3% [0.00σ]  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: N/A  
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

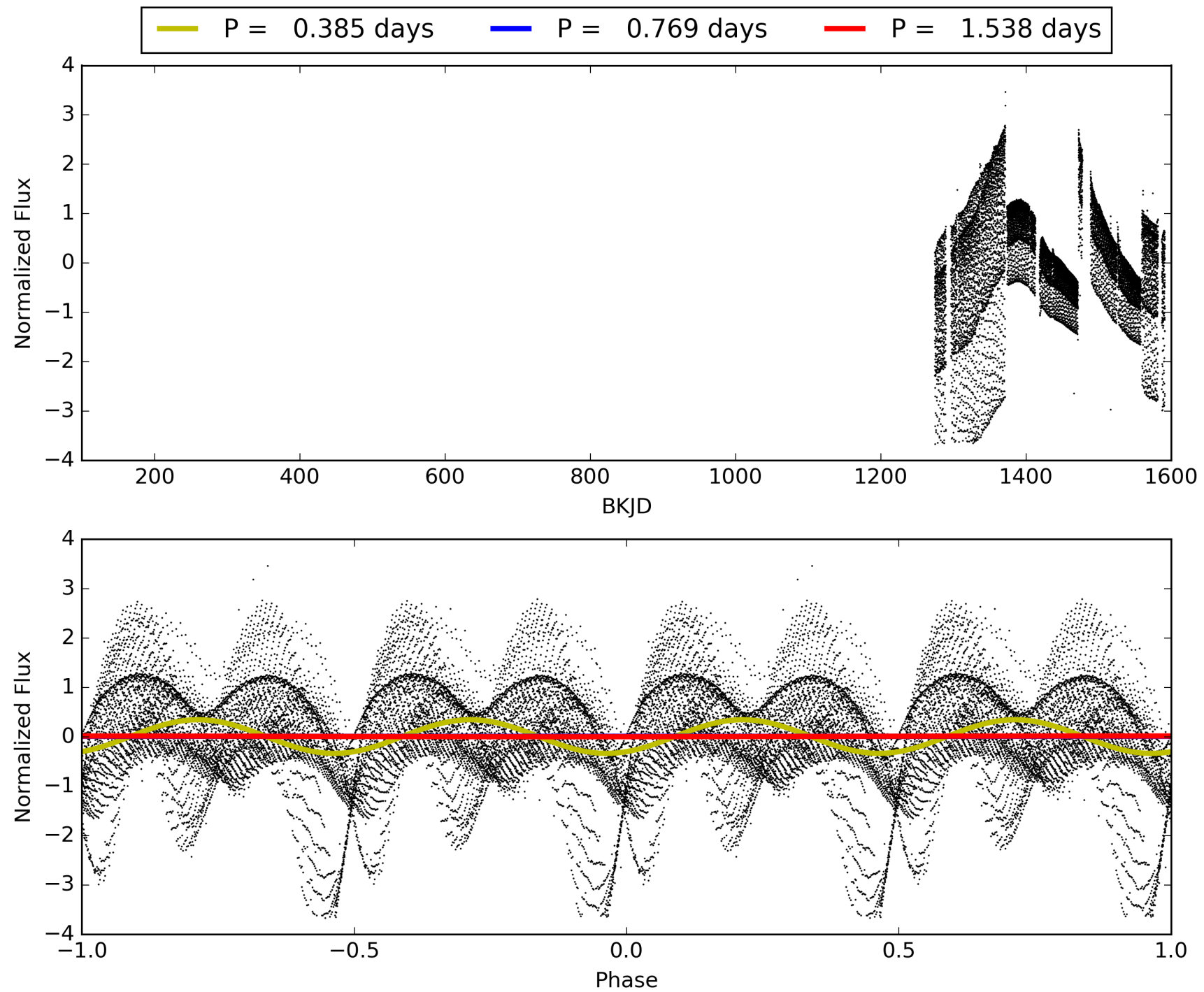
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 06:30:25 Z

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

# TCE 007259911-03, PDC Light Curves

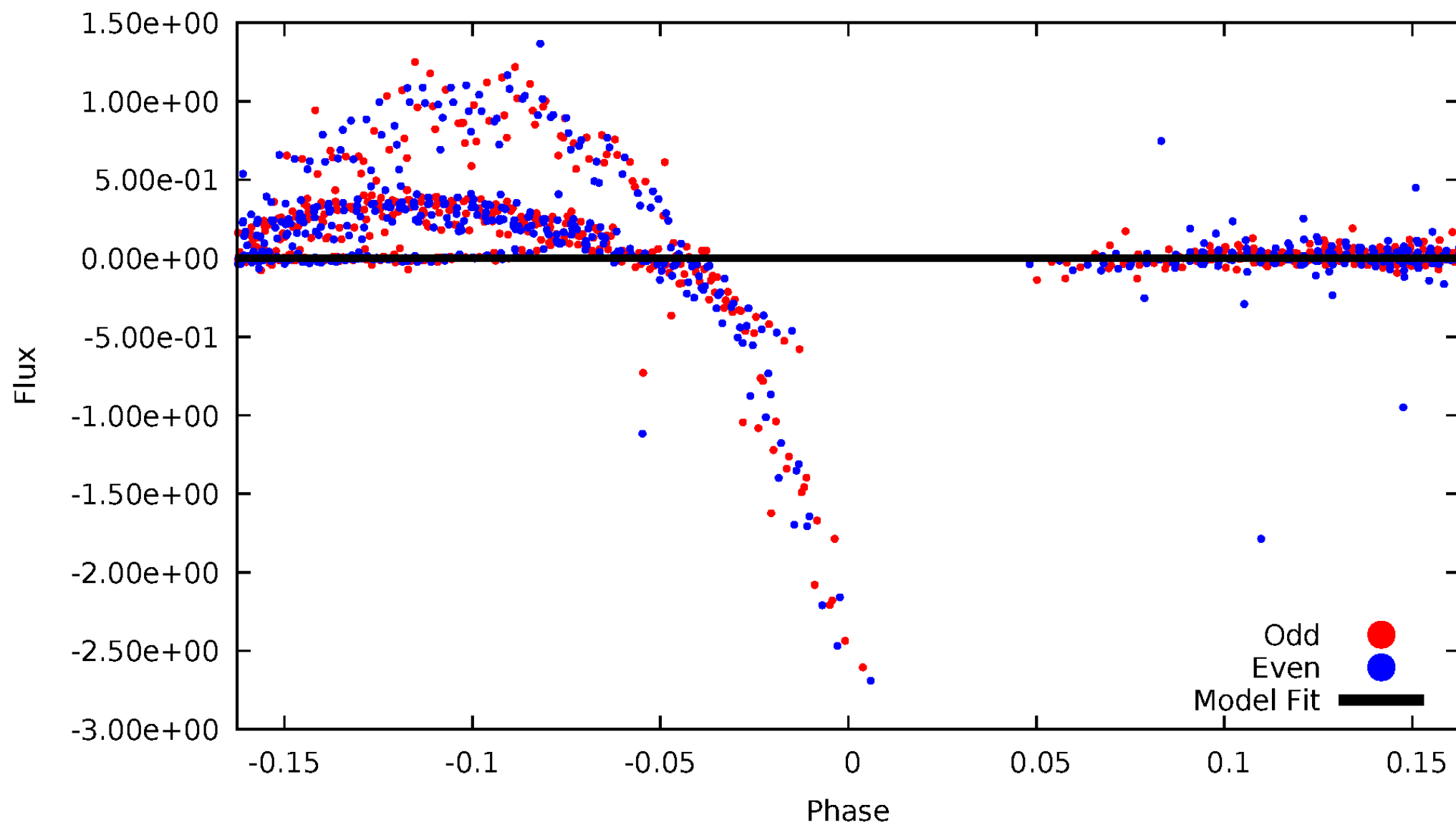


TCE 007259911-03



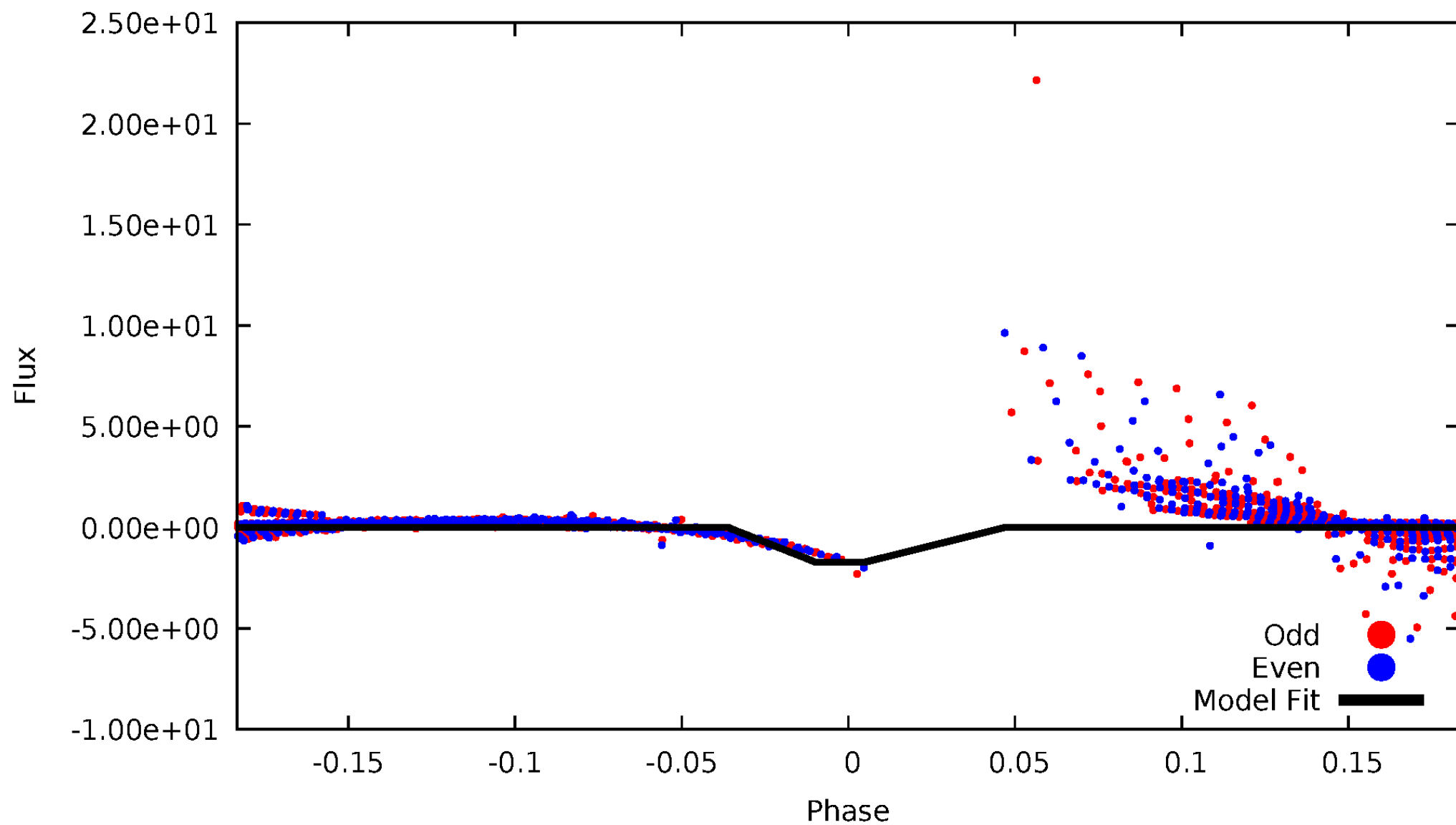
# DV Odd/Even

TCE 007259911-03



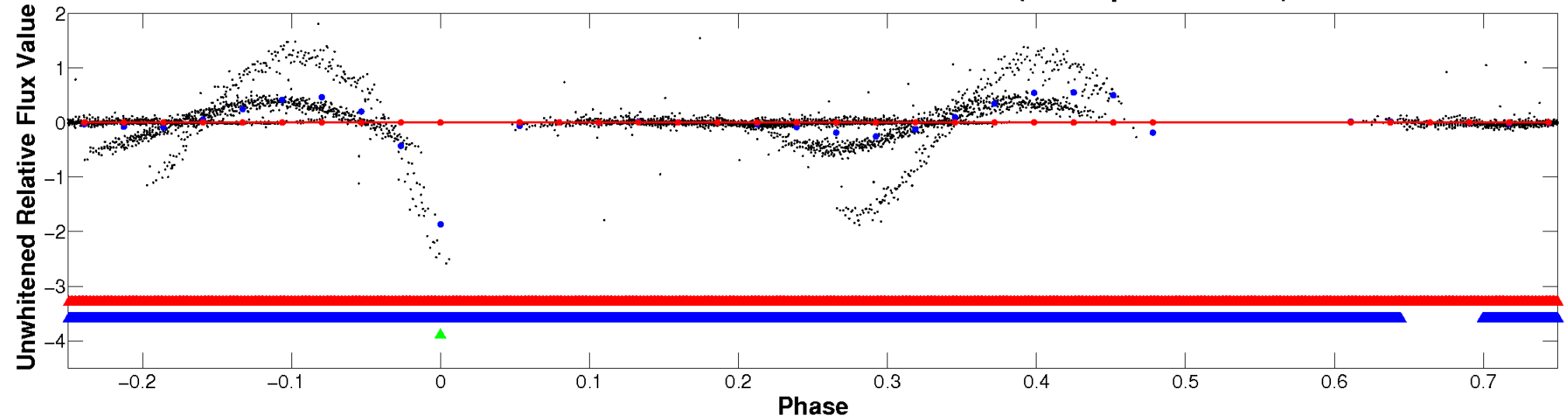
# ALT Odd/Even

TCE 007259911-03



# Non-Whitened Vs. Whitened Light Curve

**Planet 3 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)**

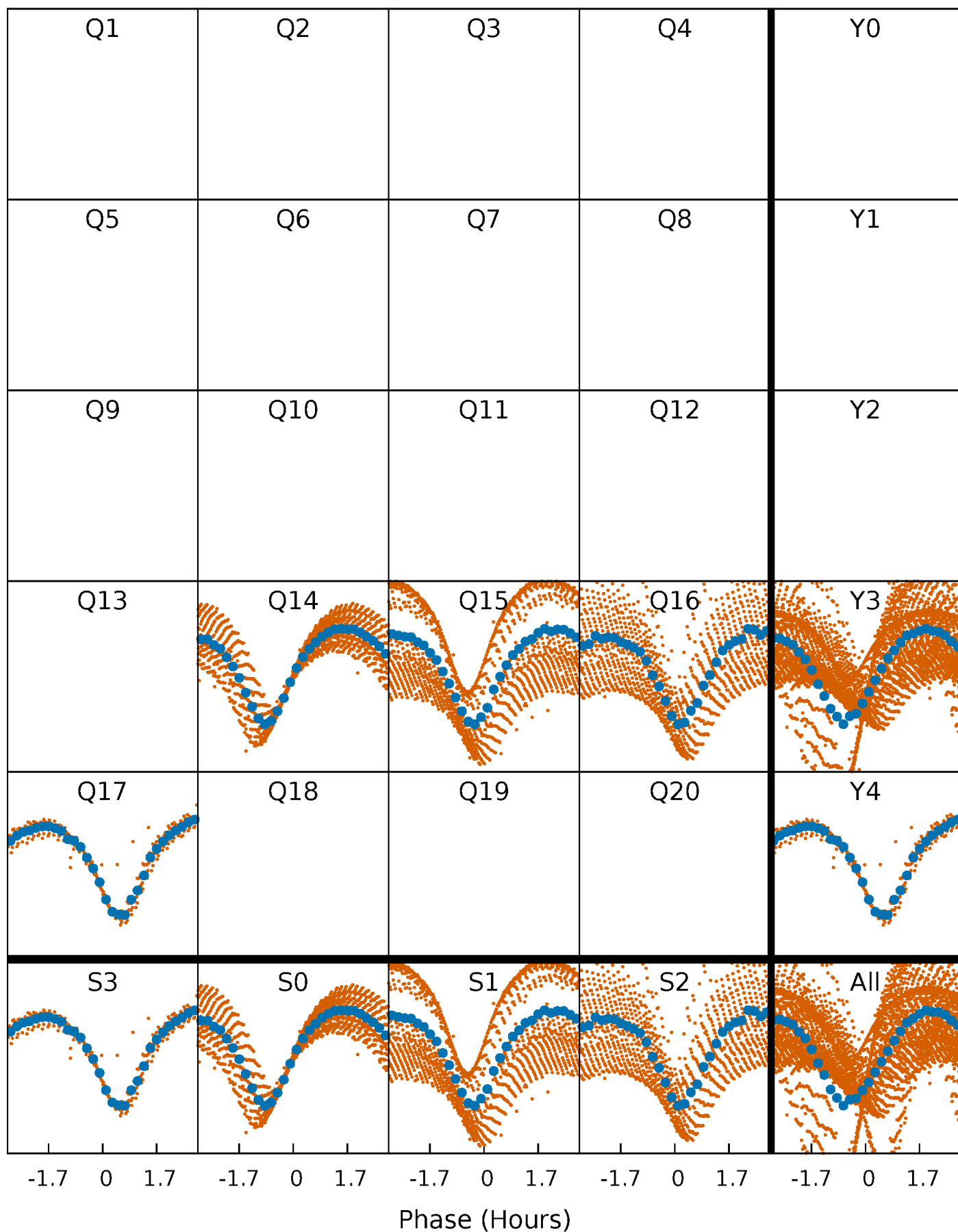


**Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)**



# PDC Quarter-Phased Transit Curves

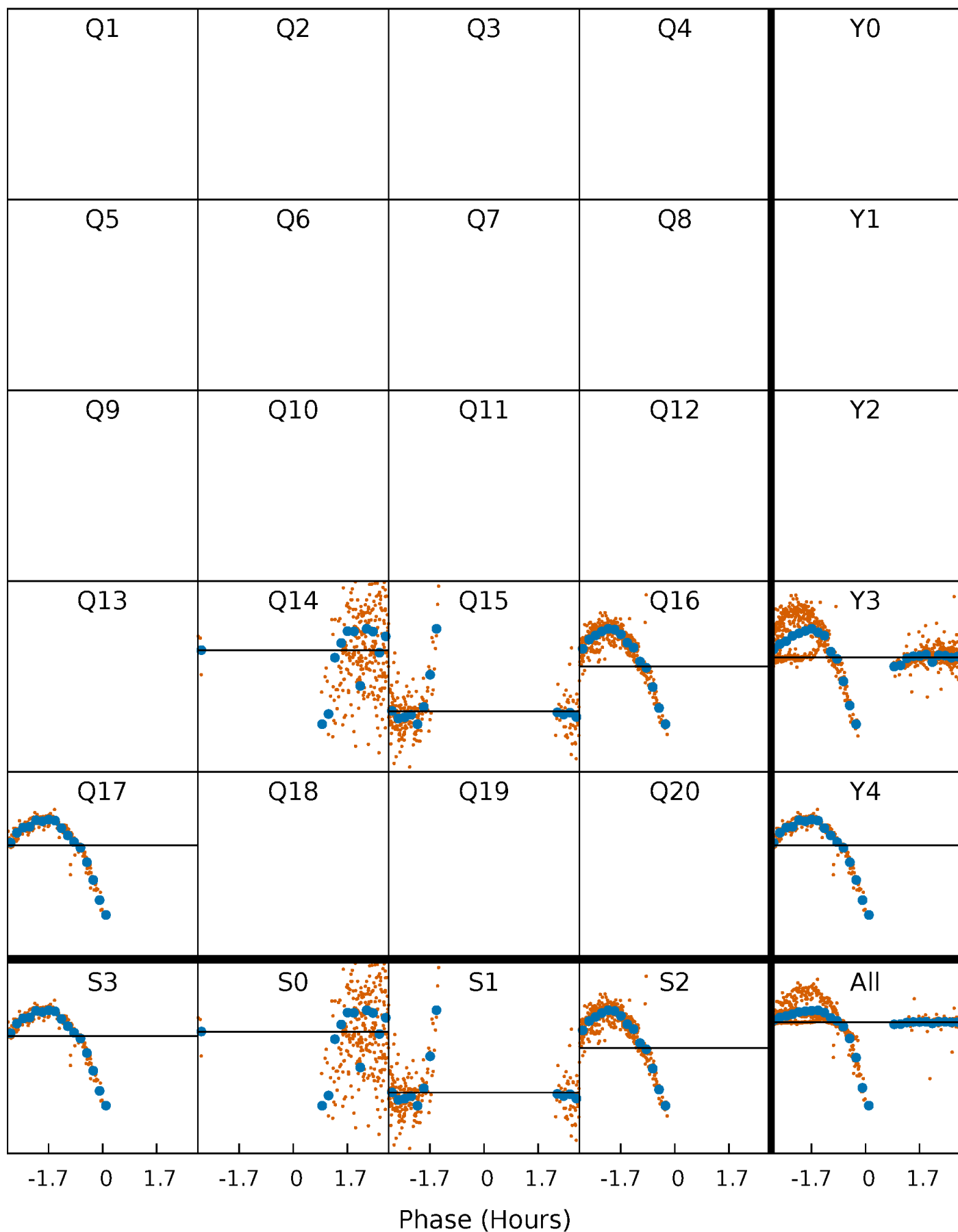
TCE 007259911-03   P= 0.769175 Days    $T_0=131.898494$  (BKJD)





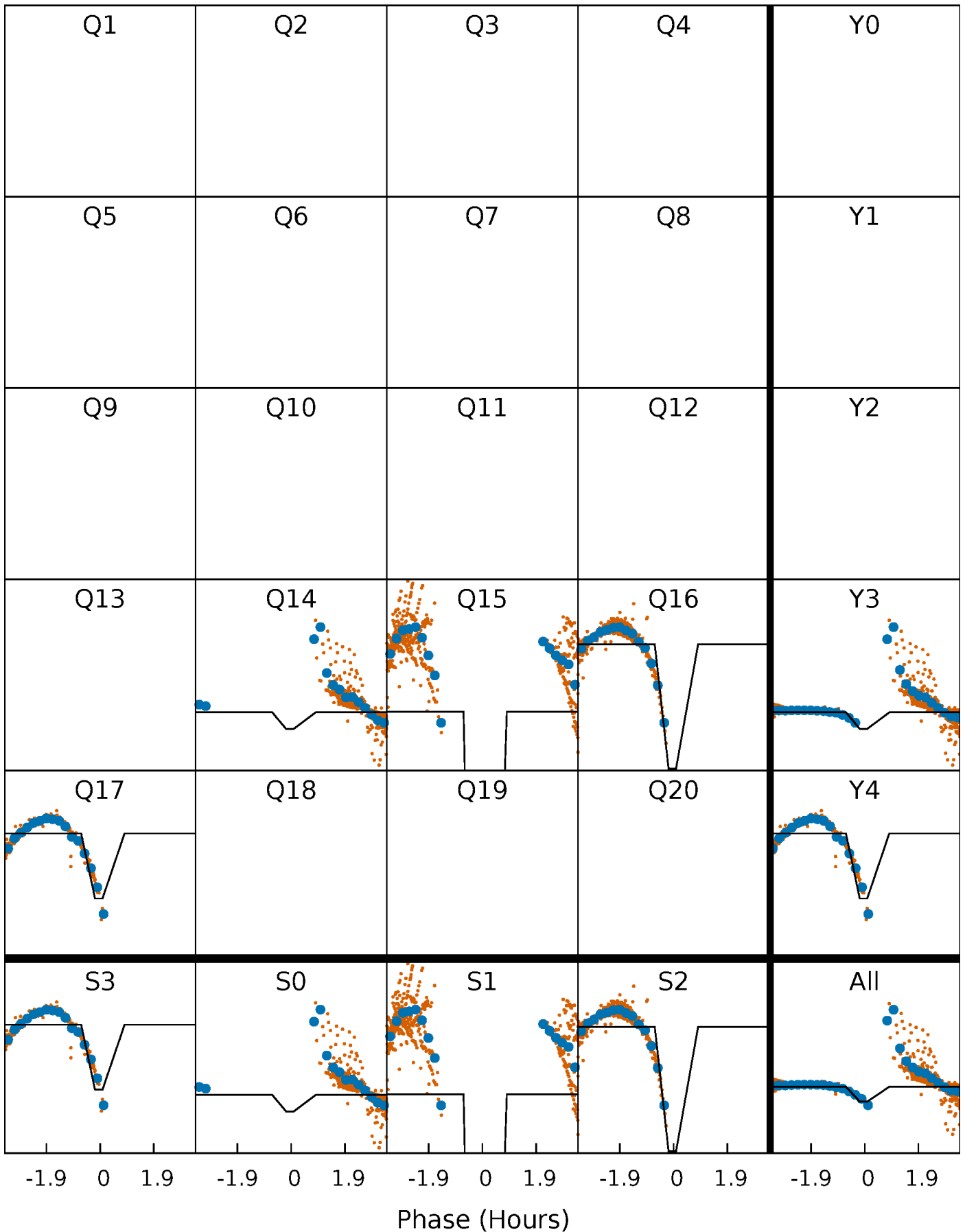
# DV Quarter-Phased Transit Curves

TCE 007259911-03   P= 0.769175 Days    $T_0=131.898494$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

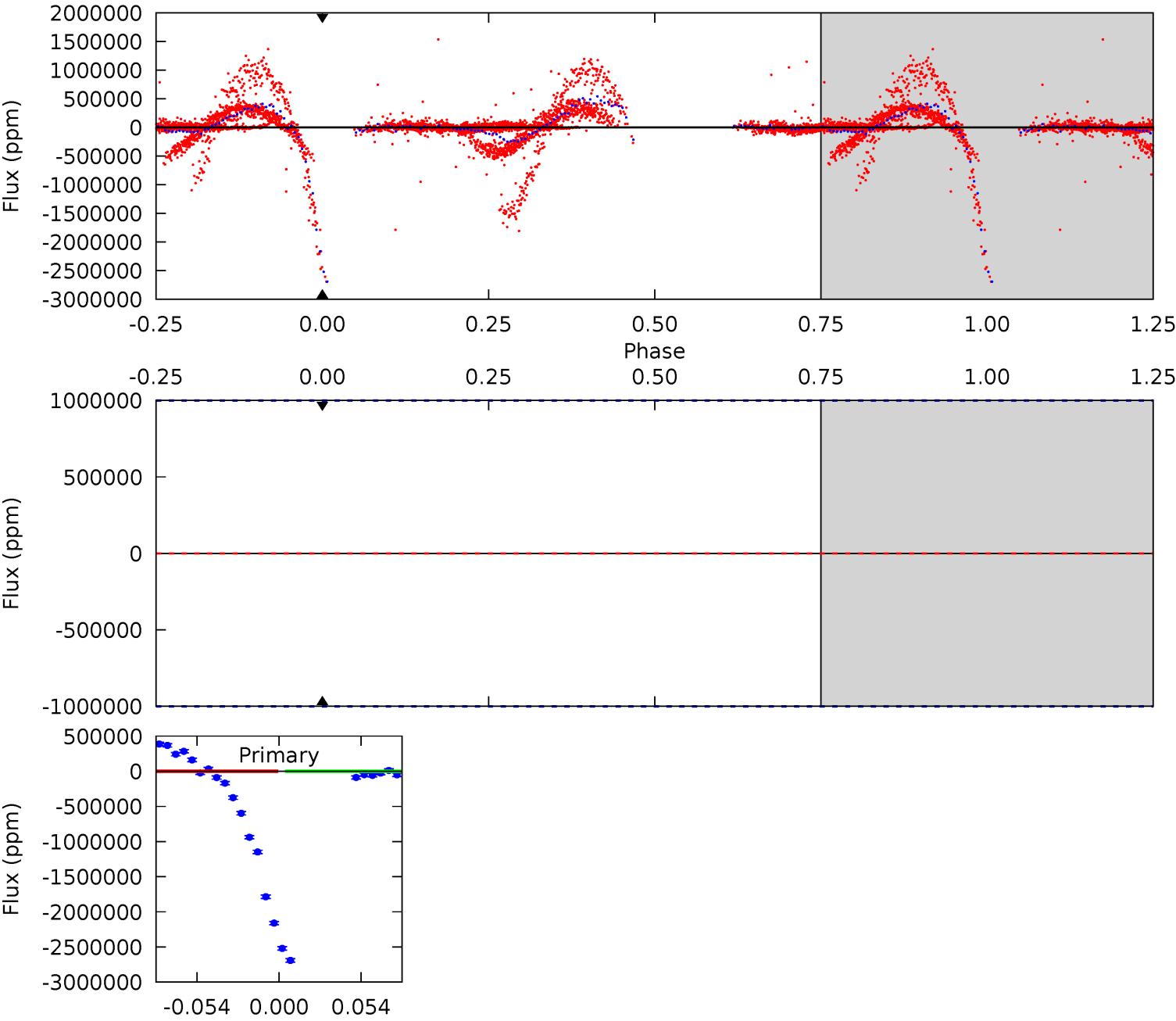
TCE 007259911-03   P= 0.769175 Days    $T_0=131.899461$  (BKJD)



# DV Model-Shift Uniqueness Test

007259911-03, P = 0.769175 Days, E = 131.898494 Days

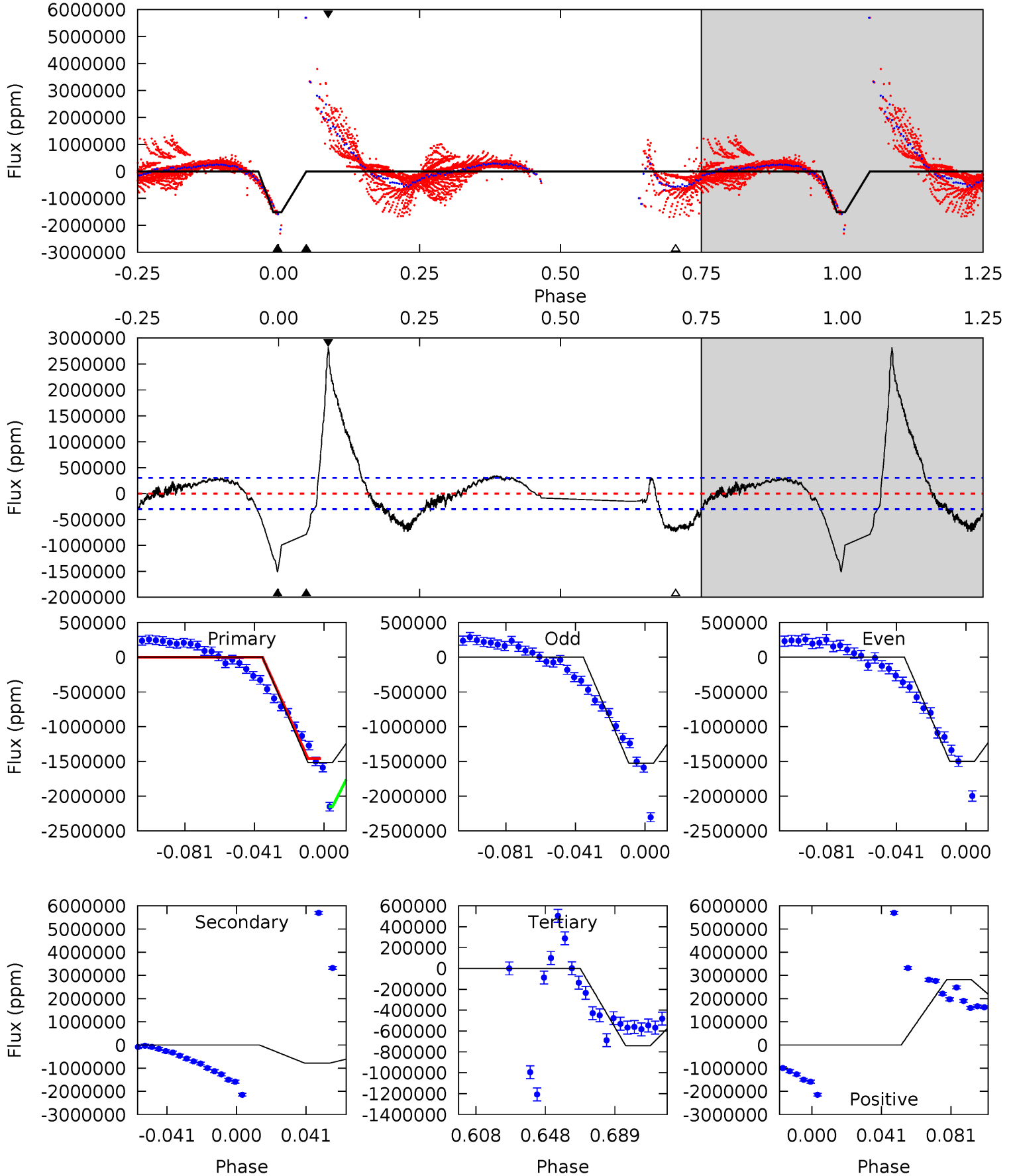
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

007259911-03, P = 0.769175 Days, E = 131.899461 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
23.7	12.3	11.6	44.2	4.75	2.05	6.90	12.1	-20.4	0.70	-31.8	0.21	1.04	0.65	1.14



### Stellar Parameters For KIC 007259911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$5865^{+176}_{-194}$	$4.407^{+0.105}_{-0.195}$	$-0.140^{+0.300}_{-0.300}$	$1.009^{+0.286}_{-0.154}$	$0.948^{+0.132}_{-0.108}$	$1.299^{+0.626}_{-0.679}$
	+3%/-3%	+2%/-4%	+214%/-214%	+28%/-15%	+14%/-11%	+48%/-52%
Source	KIC0	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 007259911-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$0 \pm 1000000$	$12.82^{+10.06}_{-8.46}$	$2897^{+195}_{-160}$	$3429^{+10386}_{-16810}$	$1.030^{+152.321}_{-145.272}$
Alt.	$-786014 \pm 63786$	$148.56^{+23.01}_{-19.19}$	$2892^{+198}_{-174}$	$7122^{+1025}_{-750}$	$24^{+15}_{-9}$

$T_{max}$  = 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  $A_{obs} \gg 1.0$

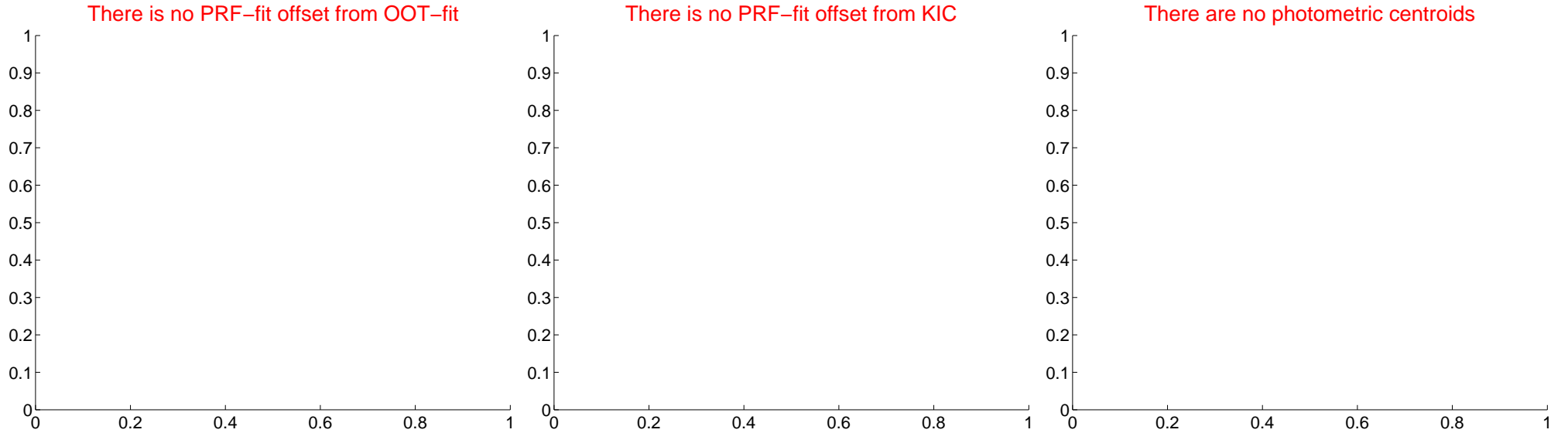
## DV Centroid Data

Supplemental centroid analysis for 007259911-03. Kepler magnitude: 16.76. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . Red \*: target star. Blue \*: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

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white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination

