

# KIC 006293266

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006293266-01	OBS	No	226.098576	267.488272	103.3	12.015	42.0	1.5	2.11	8228	2.20	23.46
006293266-02	OBS	No	381.096941	469.638358	557.8	3.000	20.9	-1.0	2.11	8228	5.04	11.69
006293266-03	OBS	No	1.415829	132.202329	184.7	5.000	9.1	-1.0	2.11	8228	2.90	20322.21

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006293266-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
006293266-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
006293266-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_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.

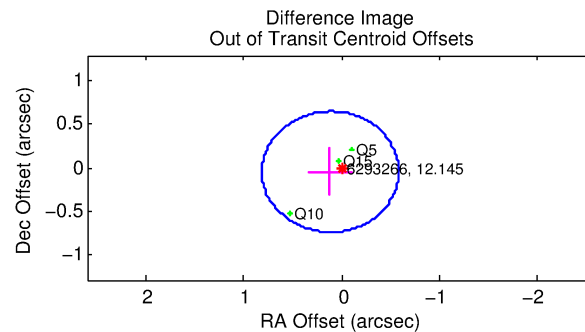
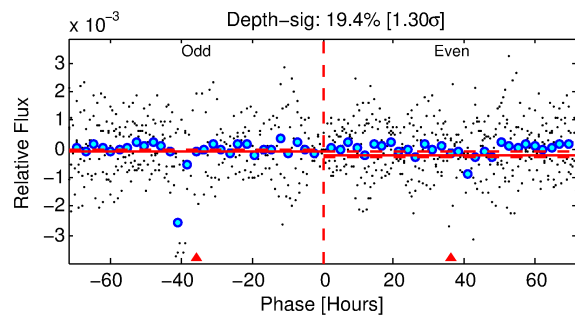
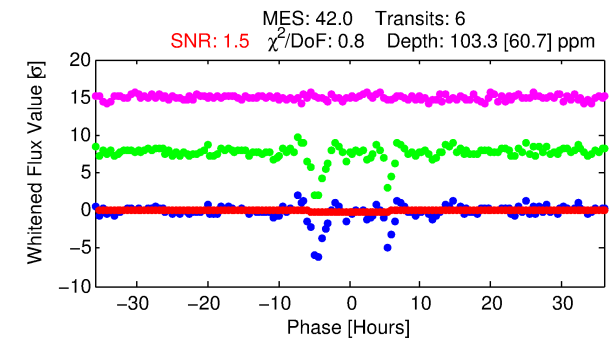
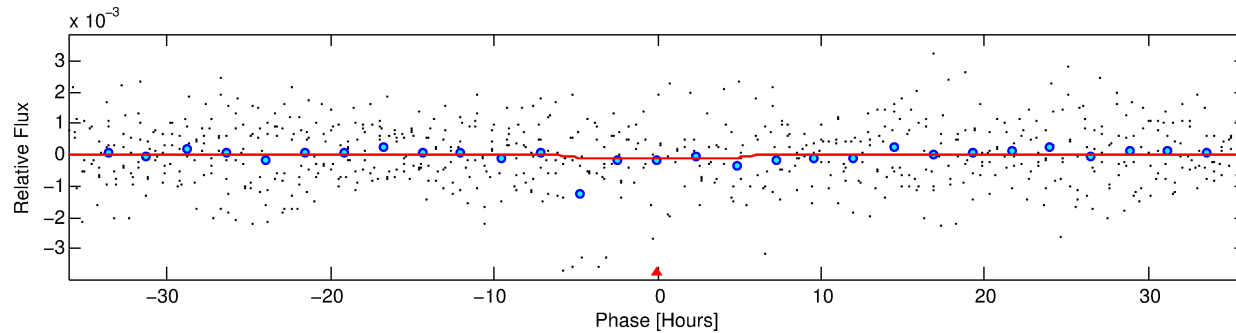
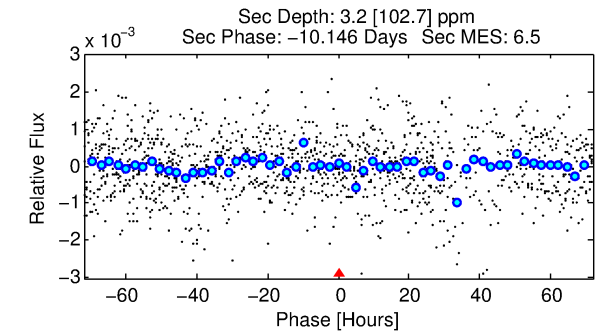
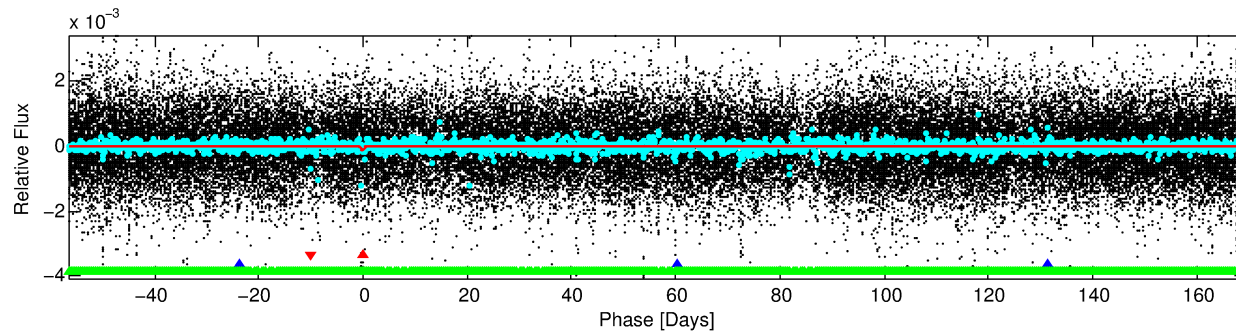
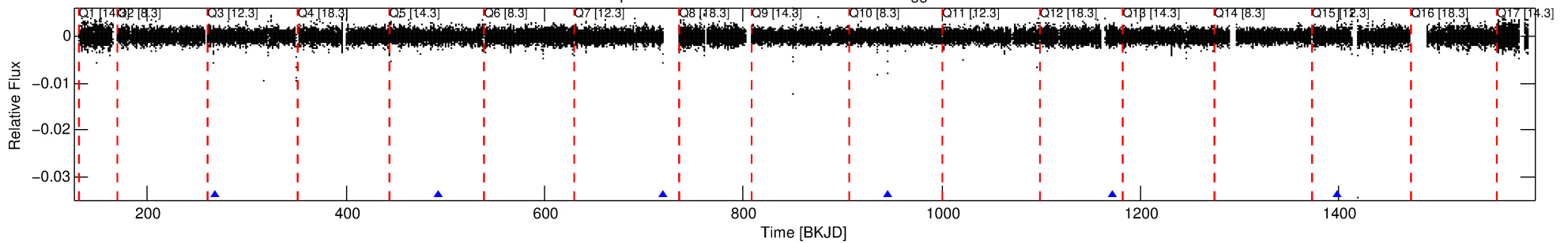
## Ephemeris Match Information For 006293266-01

No Significant Match Found

# DV One-Page Summary

KIC: 6293266 Candidate: 1 of 3 Period: 226.099 d

Kp: 12.15 R\*: 2.11 Rs Teff: 8228.0 K Logg: 4.04 Fe/H: -0.200



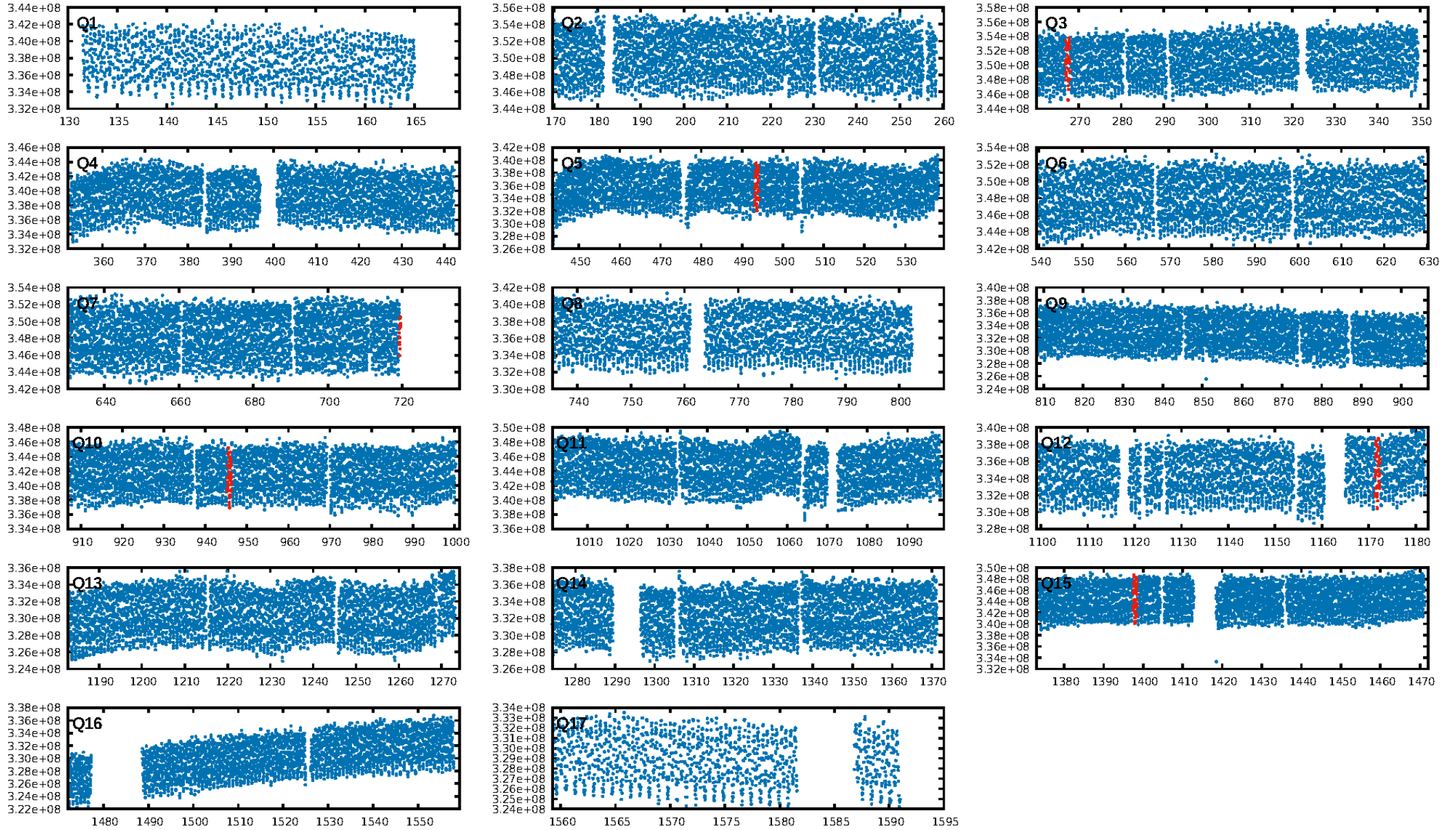
## DV Fit Results:

Period = 226.09858 [0.02248] d  
Epoch = 267.4883 [0.0638] BKJD  
Rp/R\* = 0.0096 [0.0347]  
a/R\* = 130.87 [2692.05]  
b = 0.44 [38.42]  
Seff = 23.46 [5.87]  
Teq = 561 [35] K  
Rp = 2.20 [7.98] Re  
a = 0.8820 [0.1451] AU  
Ag = 279.93 [9277.35] [0.03σ]  
Teffp = 3549 [29403] K [0.10σ]

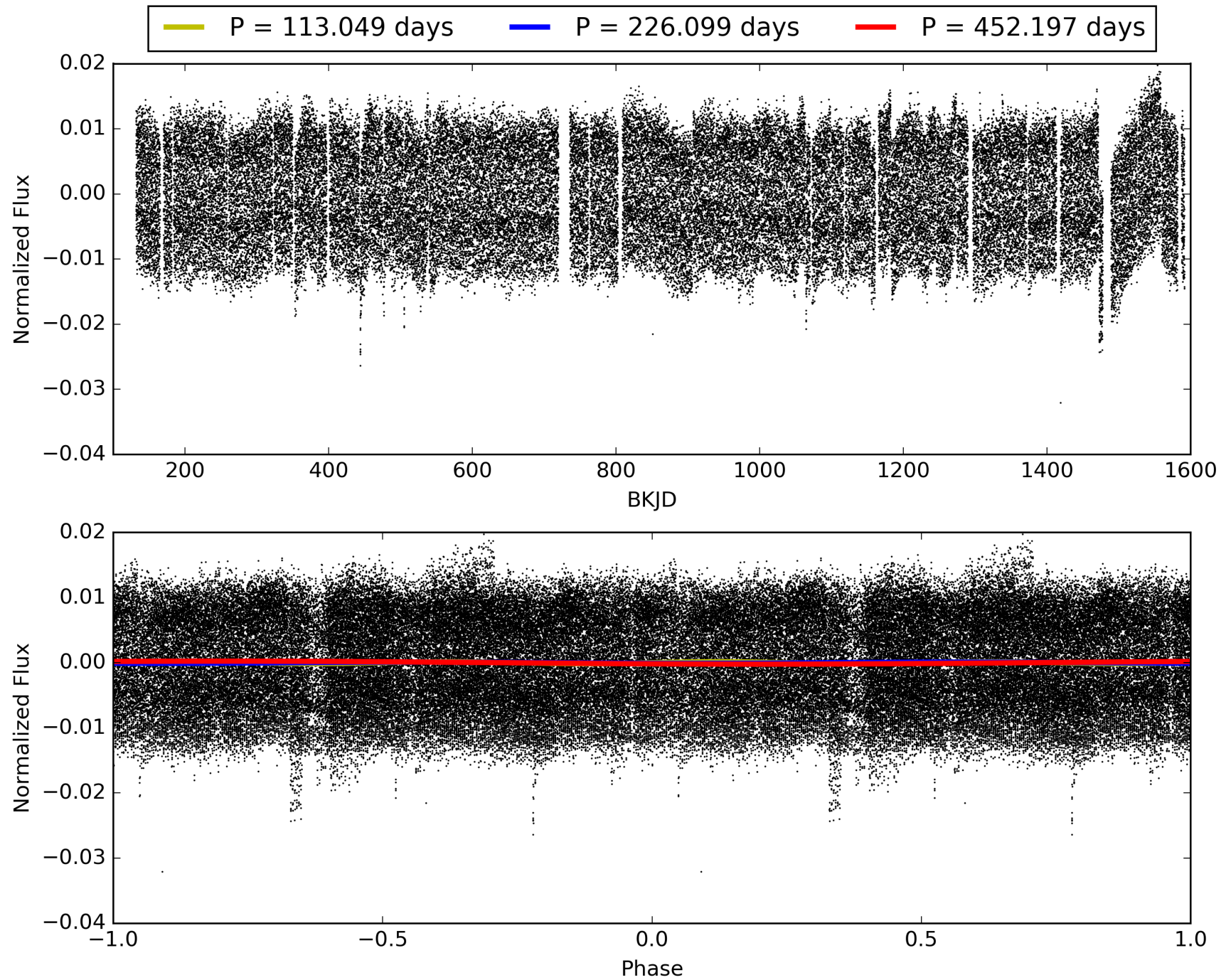
## DV Diagnostic Results:

ShortPeriod-sig: 100.0% [414.35σ]  
LongPeriod-sig: 100.0% [300.38σ]  
ModelChiSquare2-sig: 0.0%  
ModelChiSquareGof-sig: 100.0%  
Bootstrap-pfa: 1.02e-75  
RollingBand-fgt: 1.00 [6/6]  
GhostDiagnostic-chr: 1.4  
Centroid-sig: 2.9%  
Centroid-so: 1.996 arcsec [1.64σ]  
OotOffset-rm: 0.125 arcsec [0.54σ]  
KicOffset-rm: 0.137 arcsec [0.52σ]  
OotOffset-st: 1/1/0/1 [3]  
KicOffset-st: 1/1/0/1 [3]  
DiffImageQuality-fgm: 1.00 [3/3]  
DiffImageOverlap-fno: 0.00 [0/3]

# TCE 006293266-01, PDC Light Curves

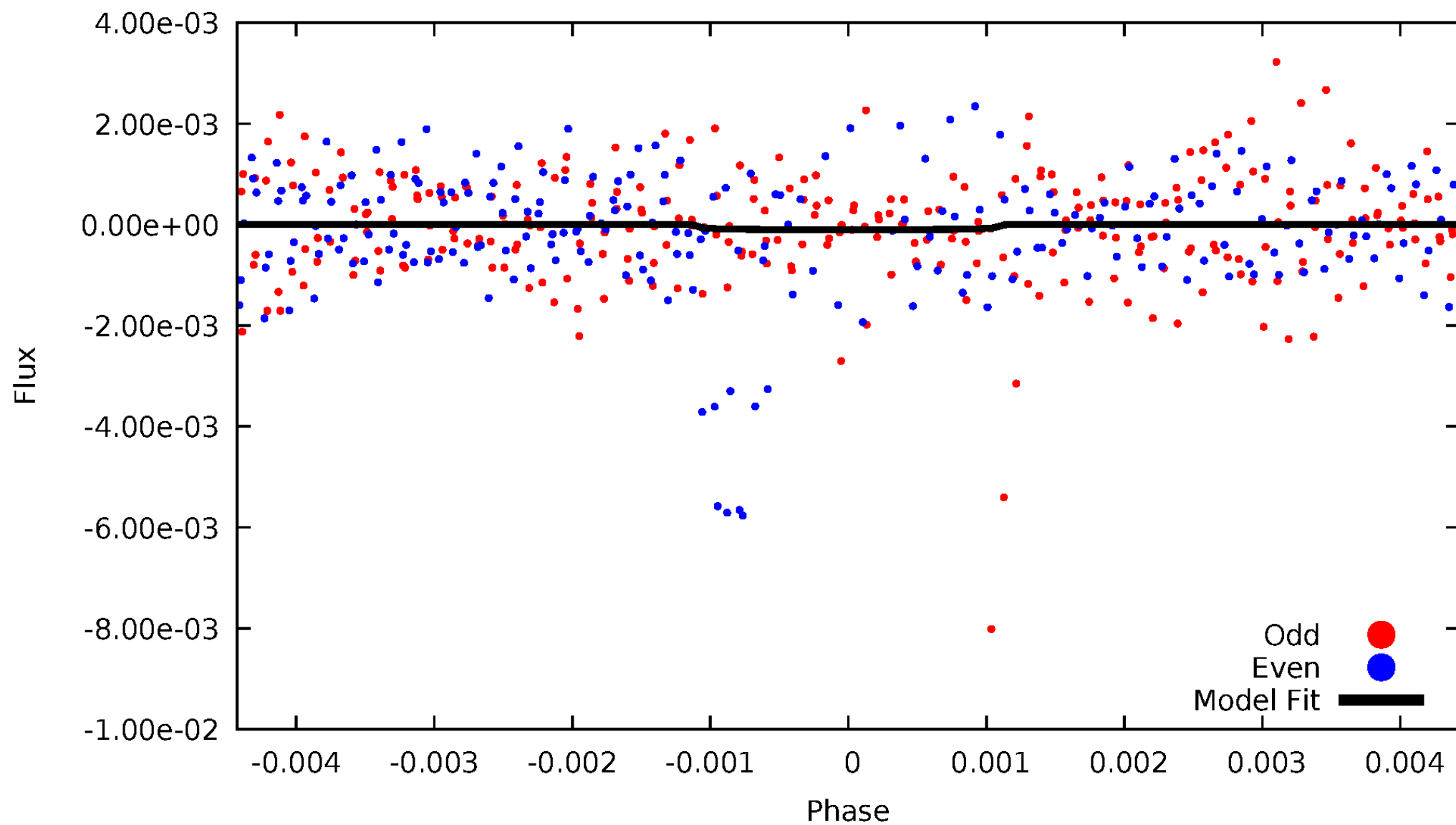


TCE 006293266-01



# DV Odd/Even

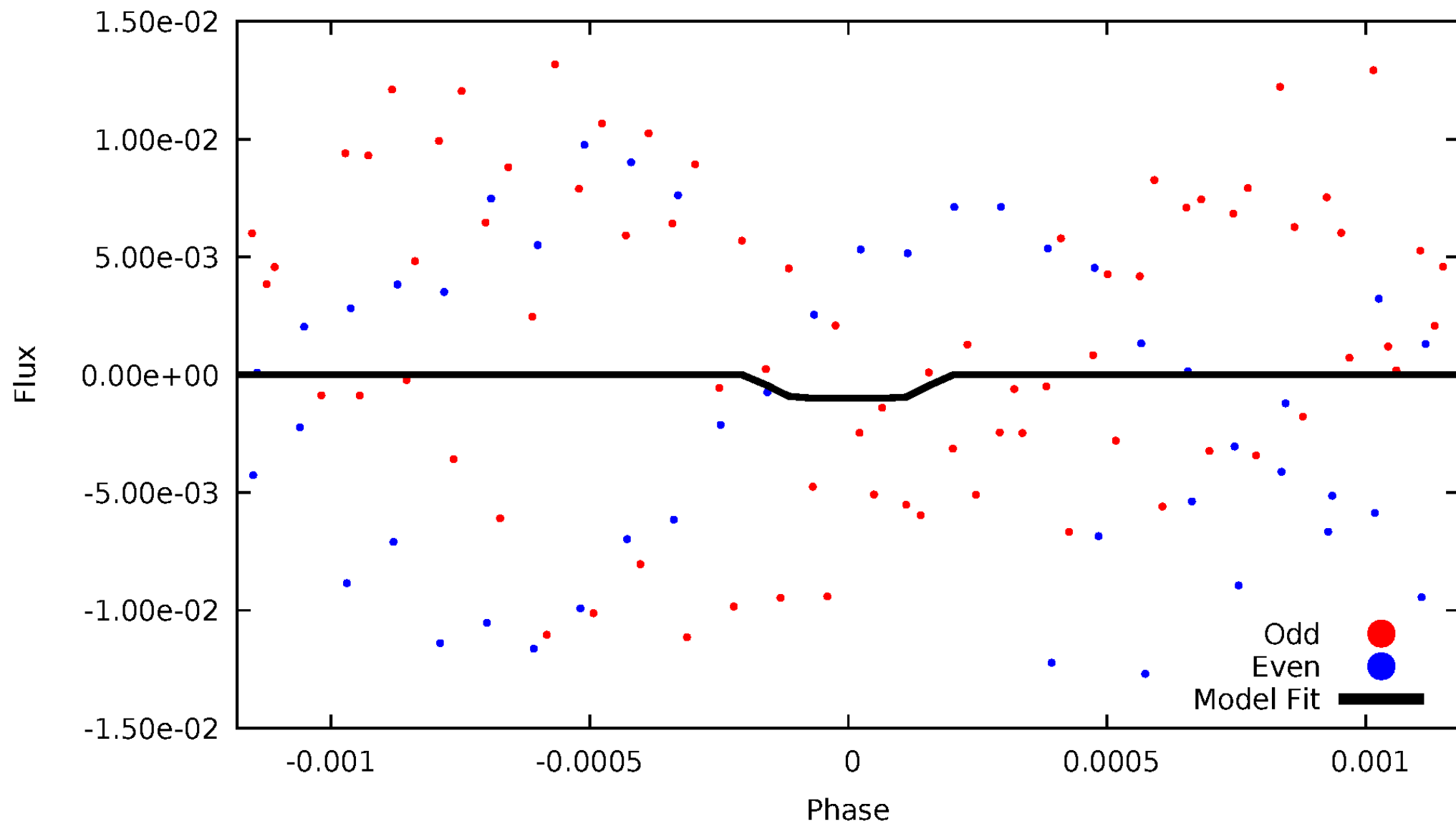
TCE 006293266-01



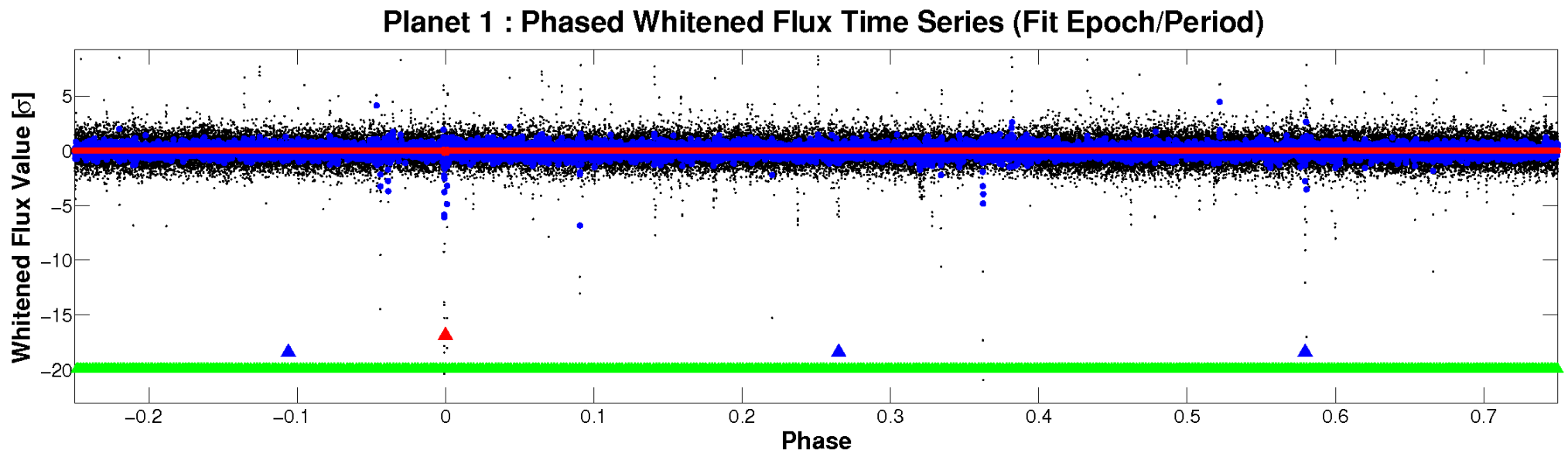
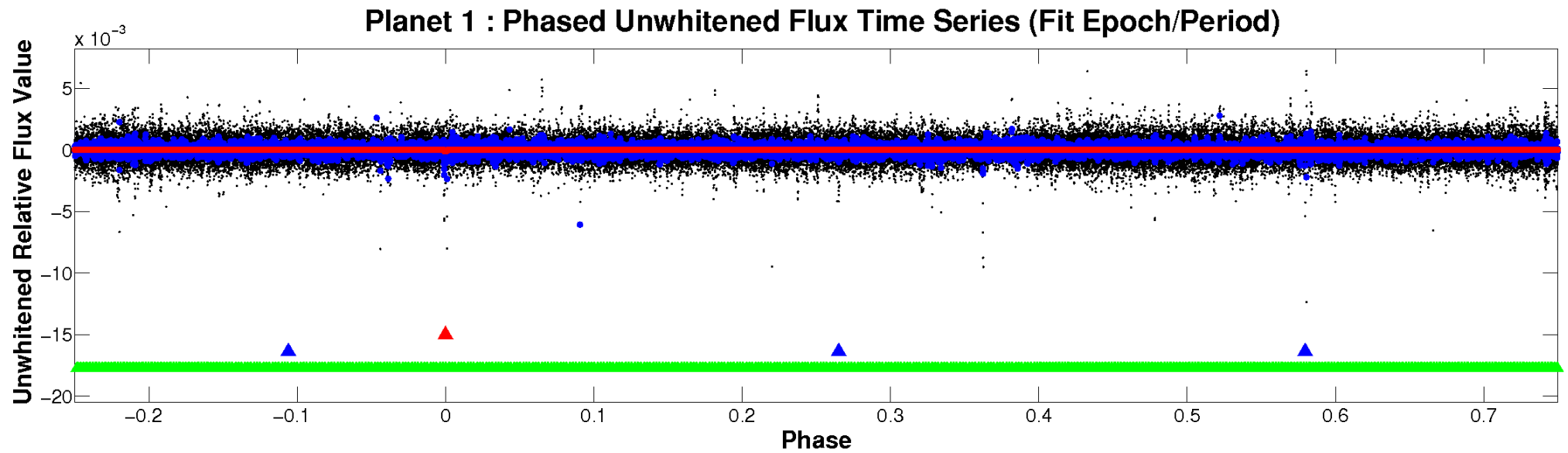


# ALT Odd/Even

TCE 006293266-01

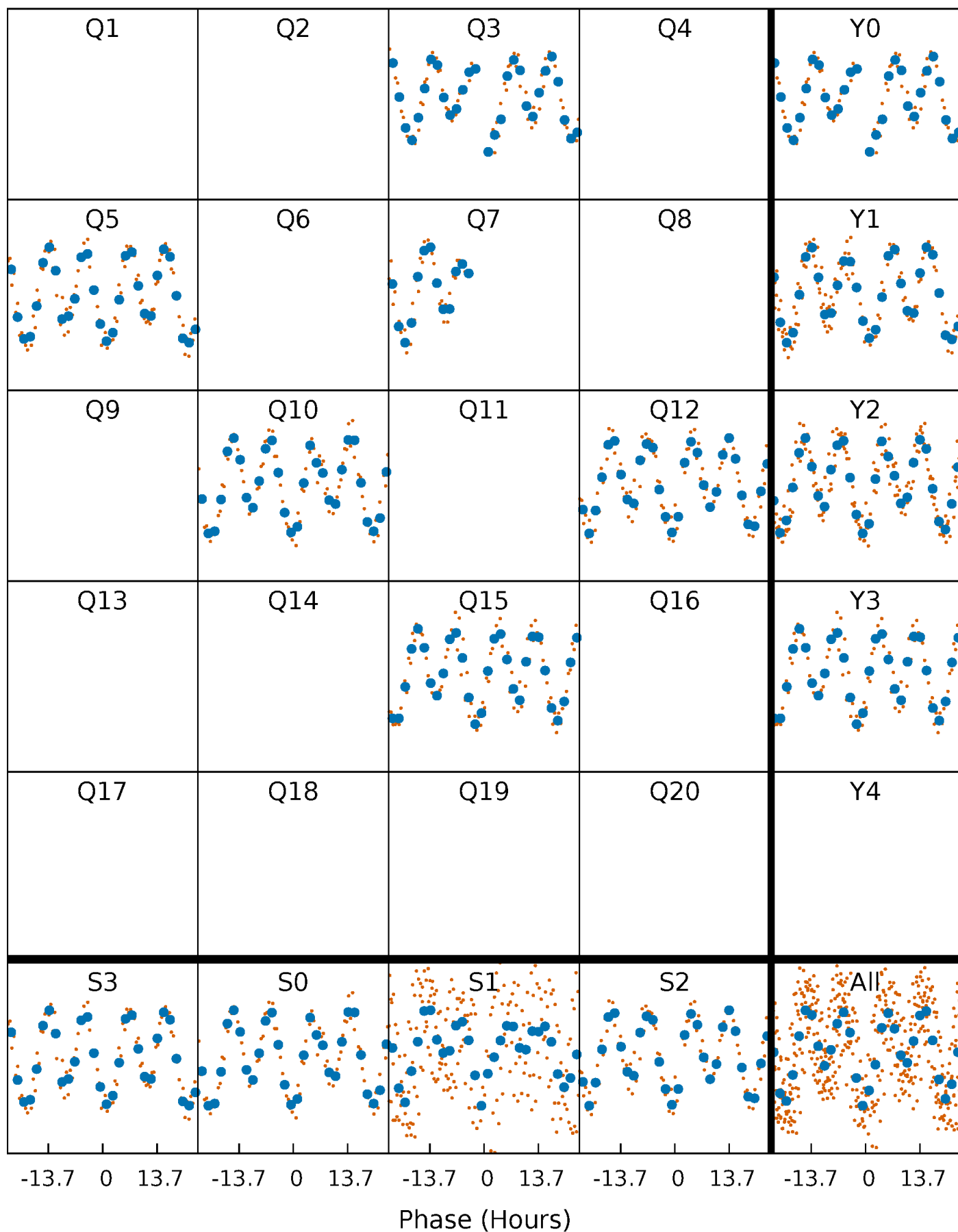


# Non-Whitened Vs. Whitened Light Curve



# PDC Quarter-Phased Transit Curves

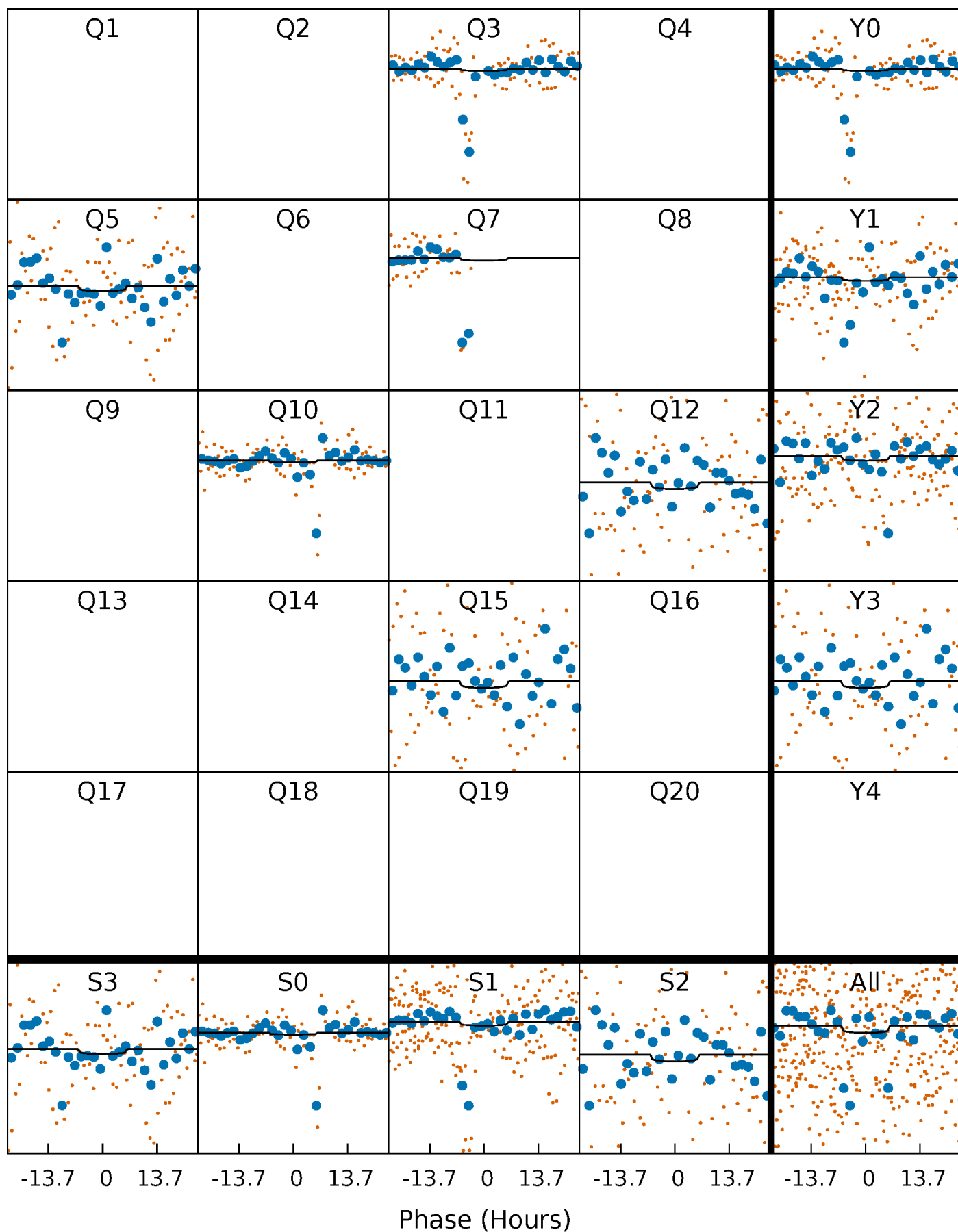
TCE 006293266-01 P=226.098576 Days  $T_0=267.488272$  (BKJD)





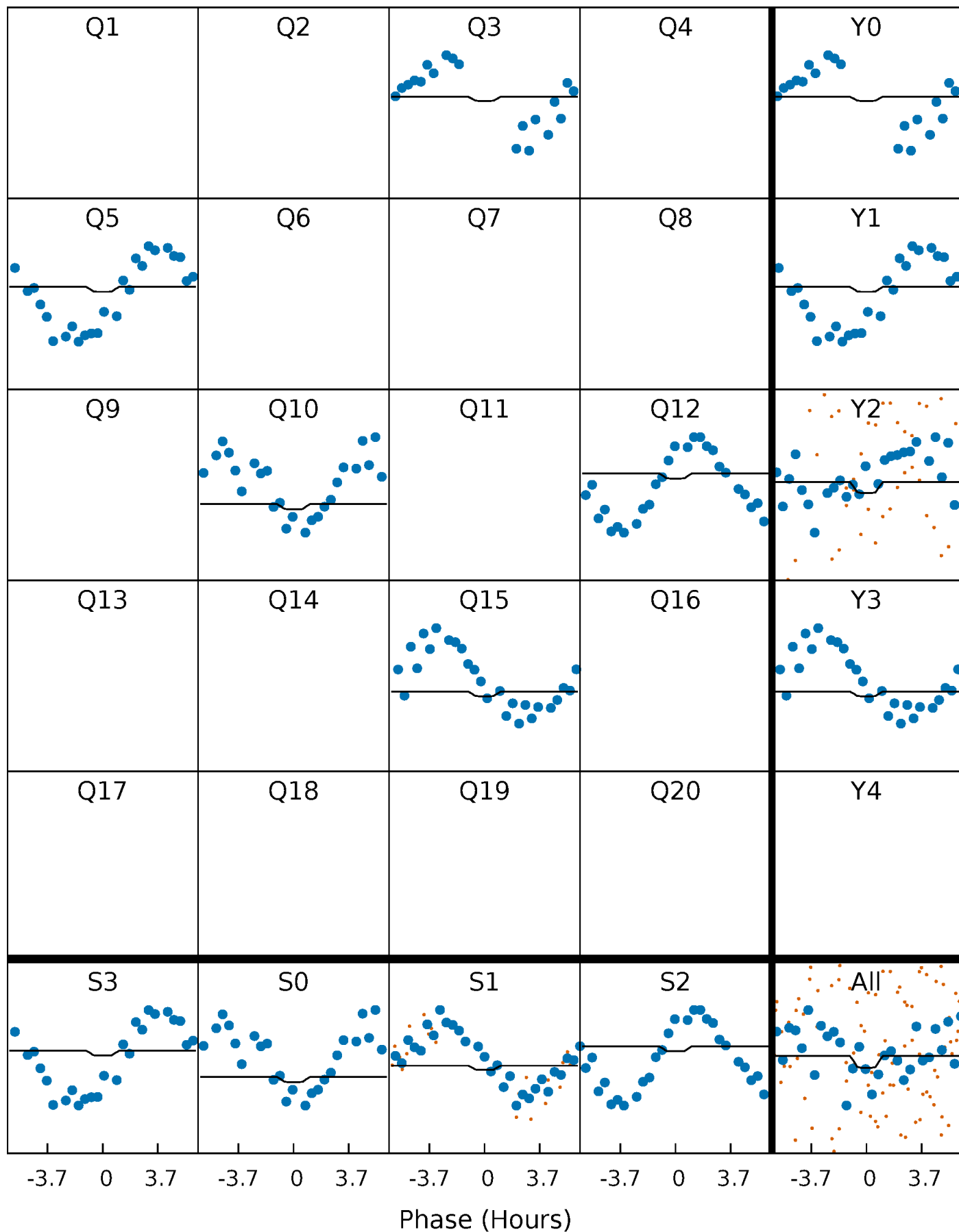
# DV Quarter-Phased Transit Curves

TCE 006293266-01 P=226.098576 Days  $T_0=267.488272$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

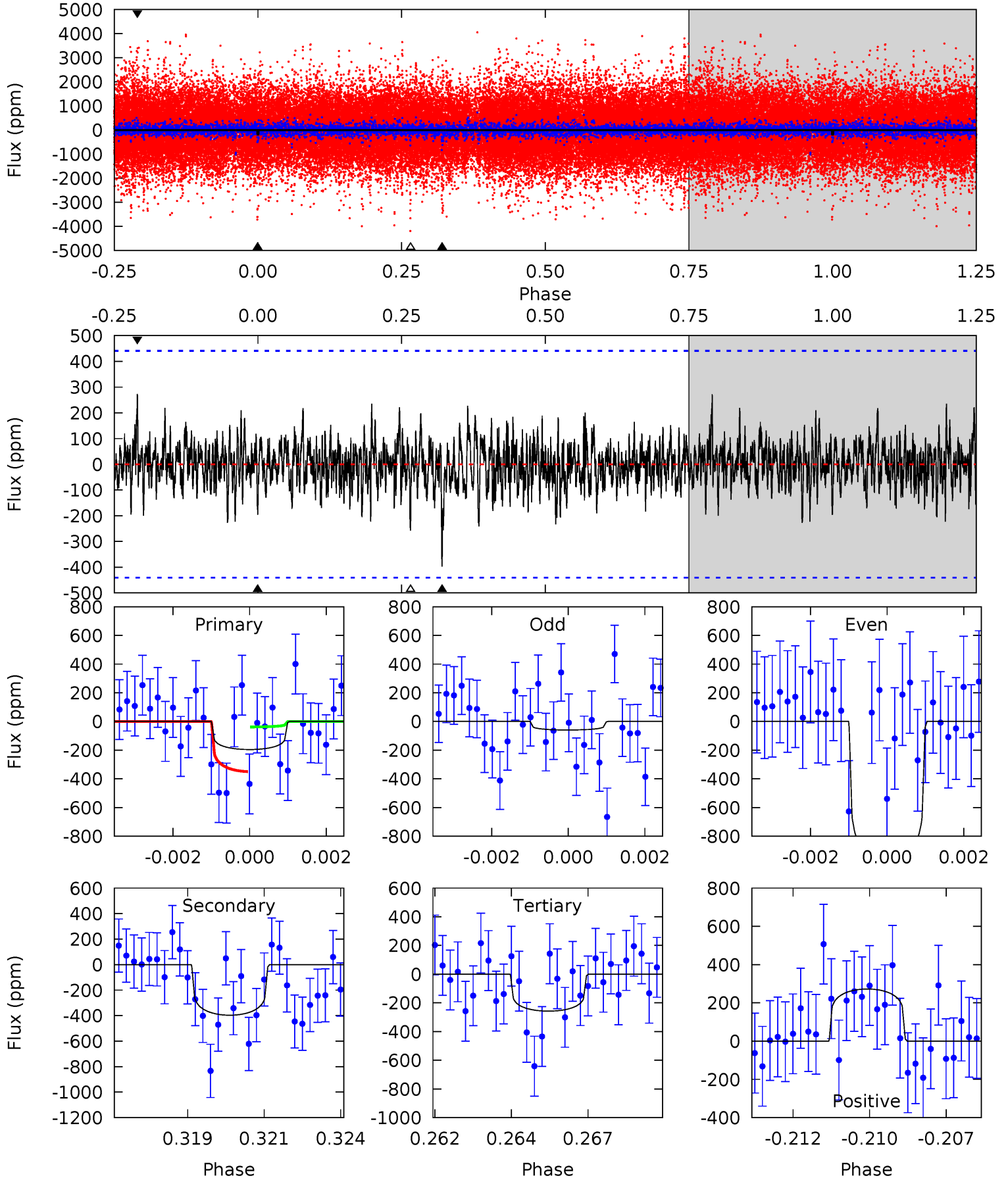
TCE 006293266-01 P=226.235078 Days  $T_0=267.471558$  (BKJD)



# DV Model-Shift Uniqueness Test

006293266-01, P = 226.098576 Days, E = 41.389696 Days

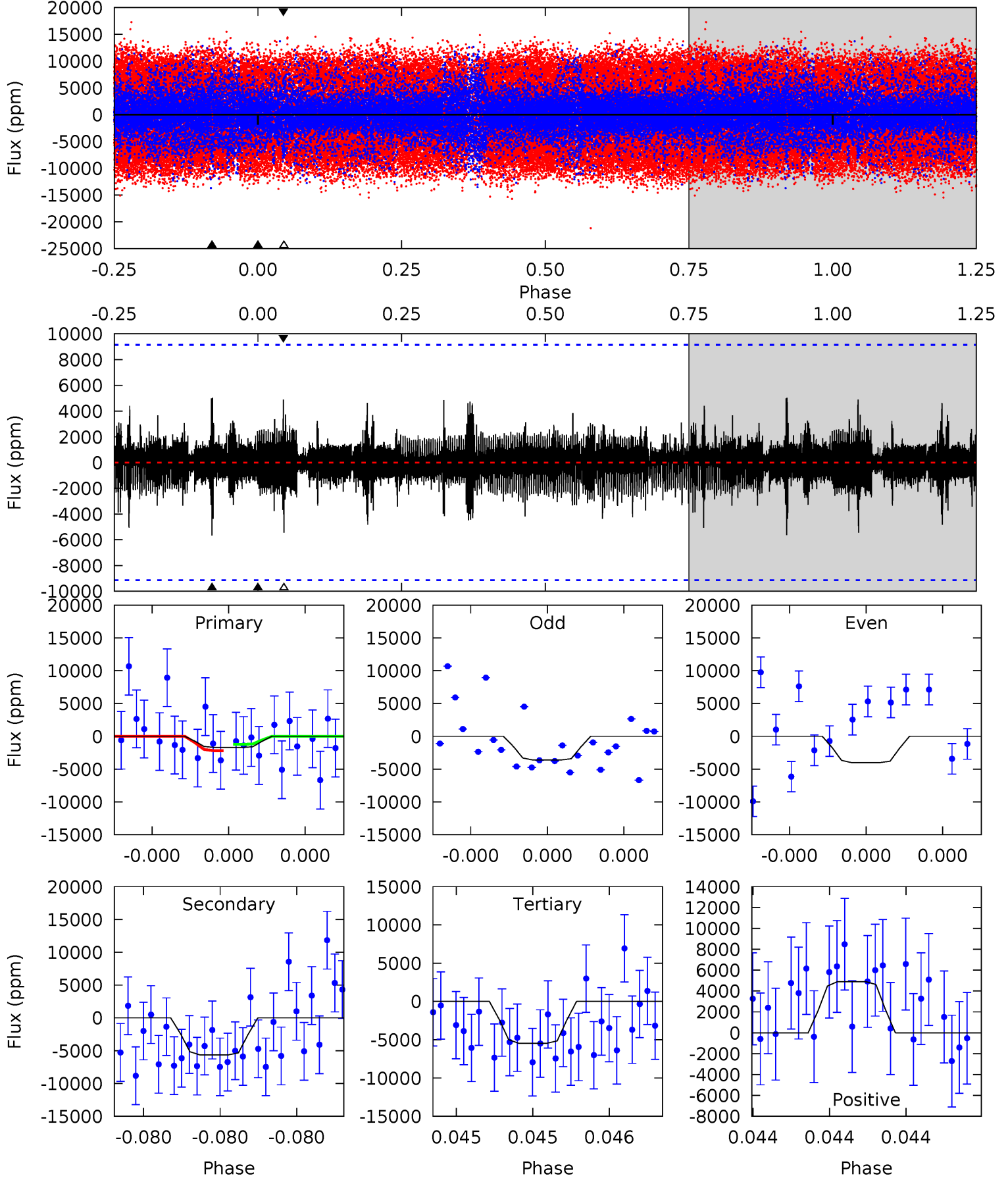
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.36	4.78	3.10	3.28	5.30	3.05	0.85	-0.74	-0.92	1.68	1.50	5.54	4.47	0.41	1.88



# Alt Model-Shift Uniqueness Test

006293266-01, P = 226.235078 Days, E = 41.236480 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
1.04	3.48	3.36	3.02	5.63	3.57	0.70	-2.32	-1.97	0.12	0.46	0.10	1.44	0.47	0.29



### Stellar Parameters For KIC 006293266

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	$8228^{+65}_{-90}$	$4.043^{+0.138}_{-0.092}$	$-0.200^{+0.050}_{-0.200}$	$2.108^{+0.266}_{-0.398}$	$1.790^{+0.057}_{-0.199}$	$0.269^{+0.195}_{-0.076}$
	+1%/-1%	+3%/-2%	+25%/-100%	+13%/-19%	+3%/-11%	+73%/-28%
Source	SPE68	SPE68	SPE68	DSEP		

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

### Secondary Eclipse Parameters for KIC 006293266-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	$A_{\text{obs}}$
DV	$-397 \pm 83$	$6.41^{+6.49}_{-4.13}$	$782^{+28}_{-35}$	$6648^{+7201}_{-1853}$	$3977^{+28527}_{-2985}$
Alt.	$-5643 \pm 1623$	$8.62^{+7.72}_{-5.67}$	$780^{+32}_{-36}$	$13401^{+35679}_{-5104}$	$29814^{+230789}_{-21497}$

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

## DV Centroid Data

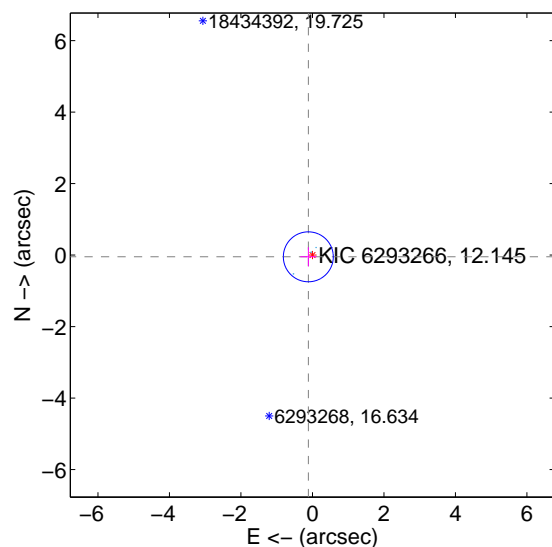
Supplemental centroid analysis for 006293266-01. Kepler magnitude: 12.14. Transit SNR 1.53

There are 3 quarters with good PRF difference image offsets

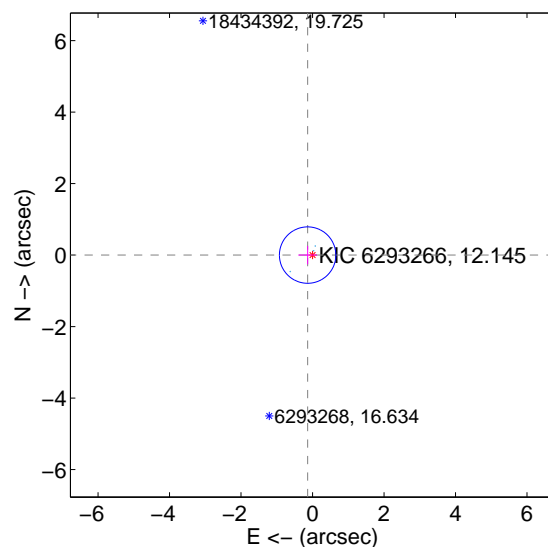
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$0.125 \pm 0.233$	0.54	$0.115 \pm 0.227$	$-0.048 \pm 0.266$
PRF-fit source offset from KIC position	$0.137 \pm 0.263$	0.52	$0.137 \pm 0.263$	$0.000 \pm 0.257$
photometric centroid source offset	$2.00 \pm 1.22$	1.64	$-1.28 \pm 1.08$	$-1.53 \pm 1.30$

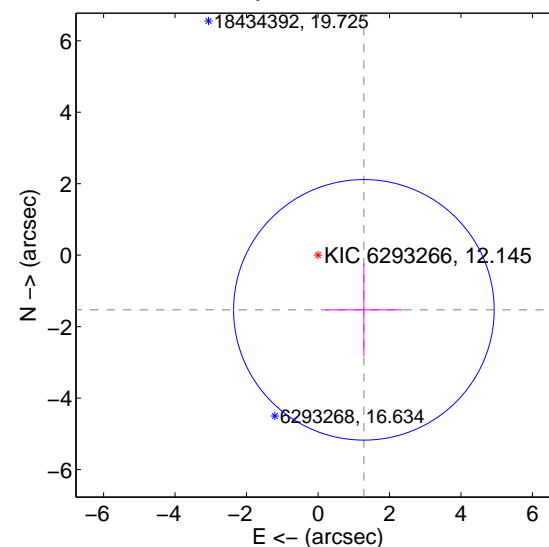
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids



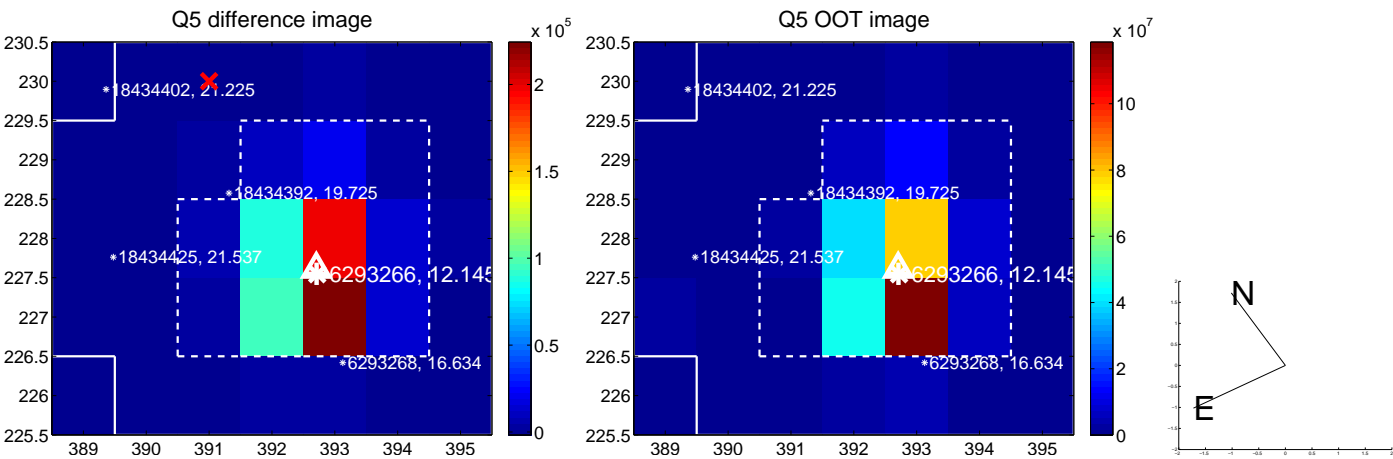
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . 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.

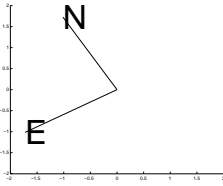
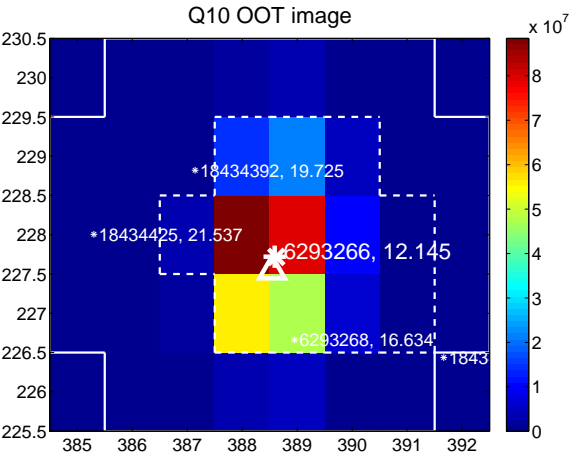
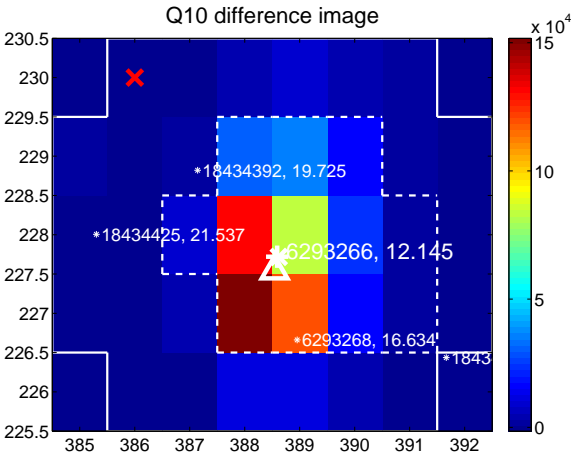
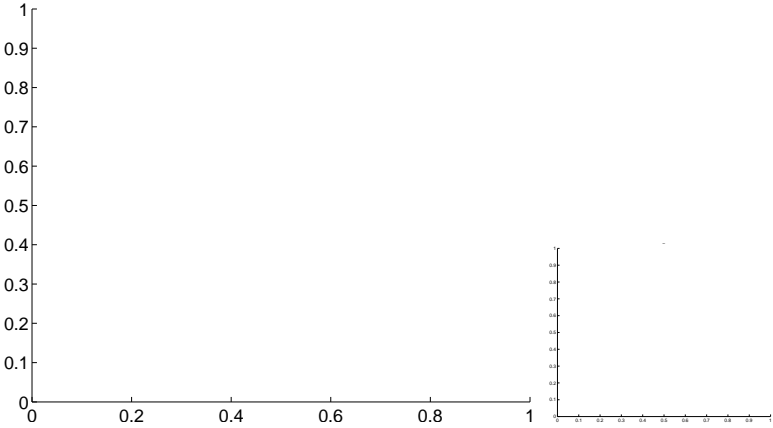


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

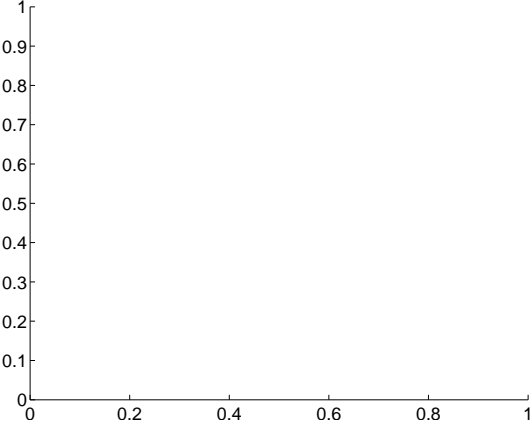
Q9 no difference image



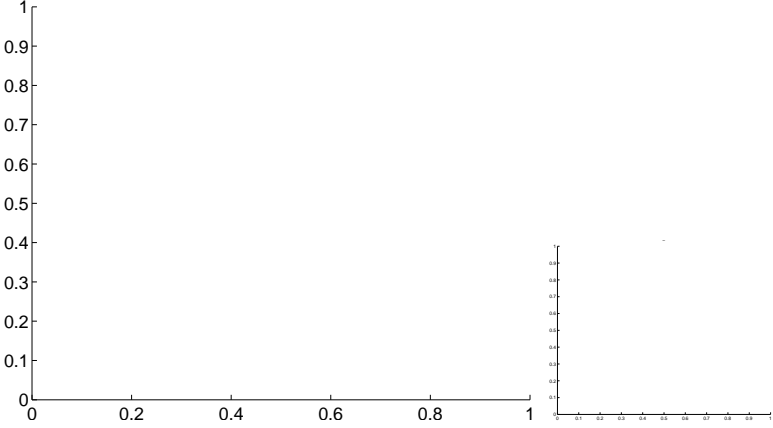
Q9 no OOT image



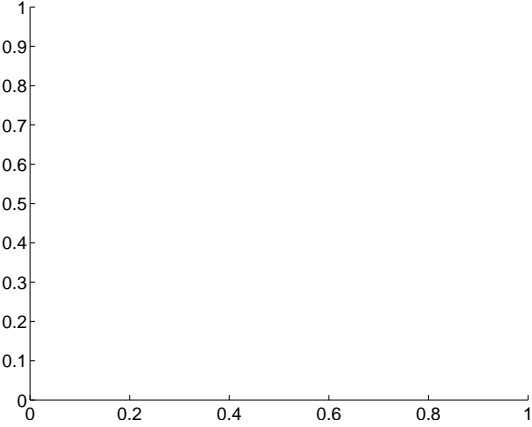
Q11 no difference image



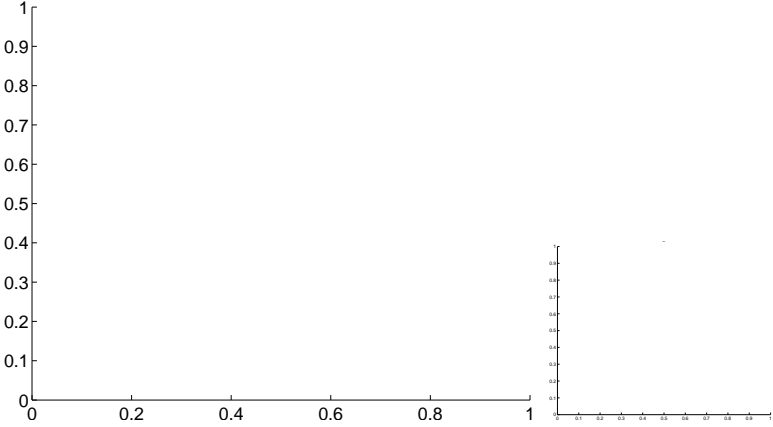
Q11 no OOT image



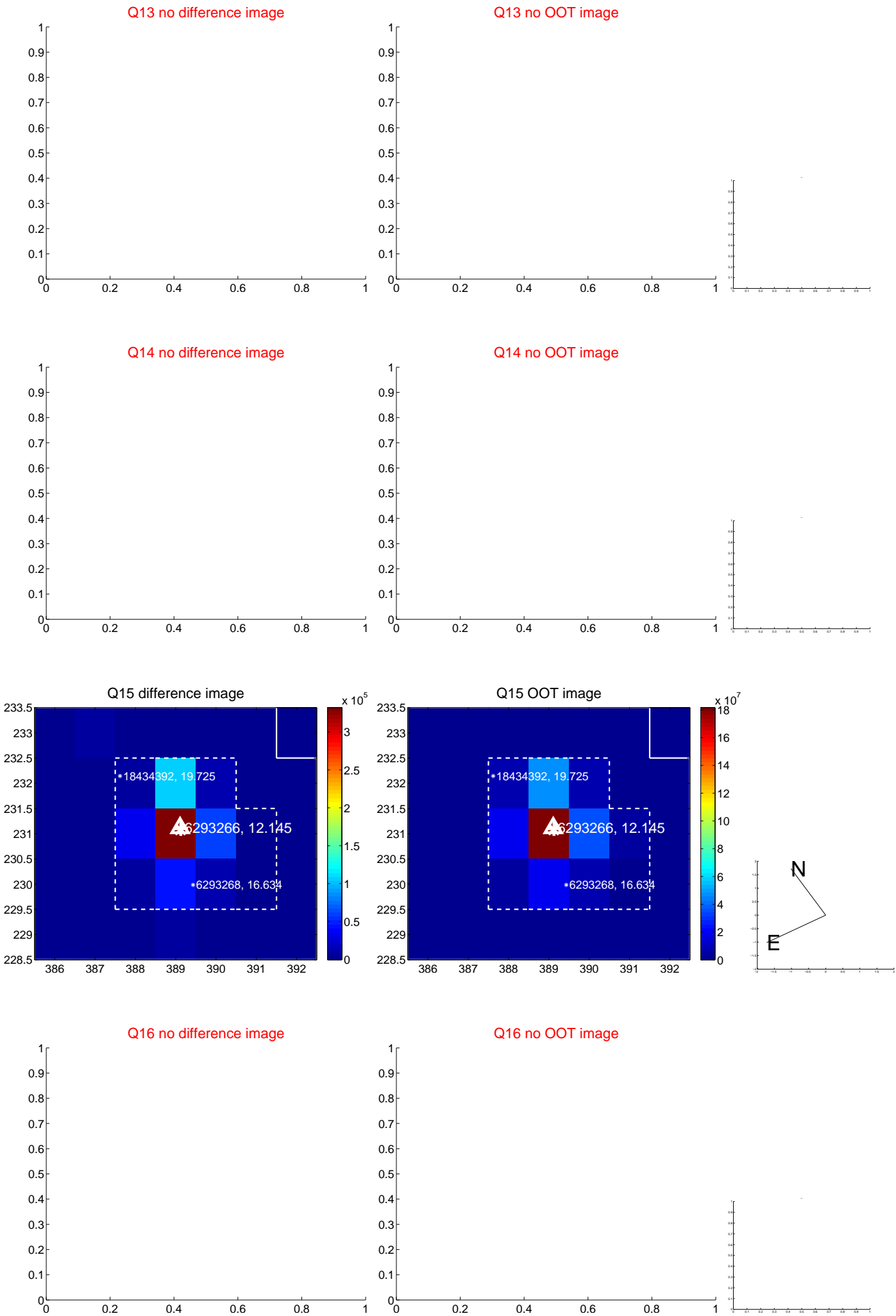
Q12 no difference image



Q12 no OOT image



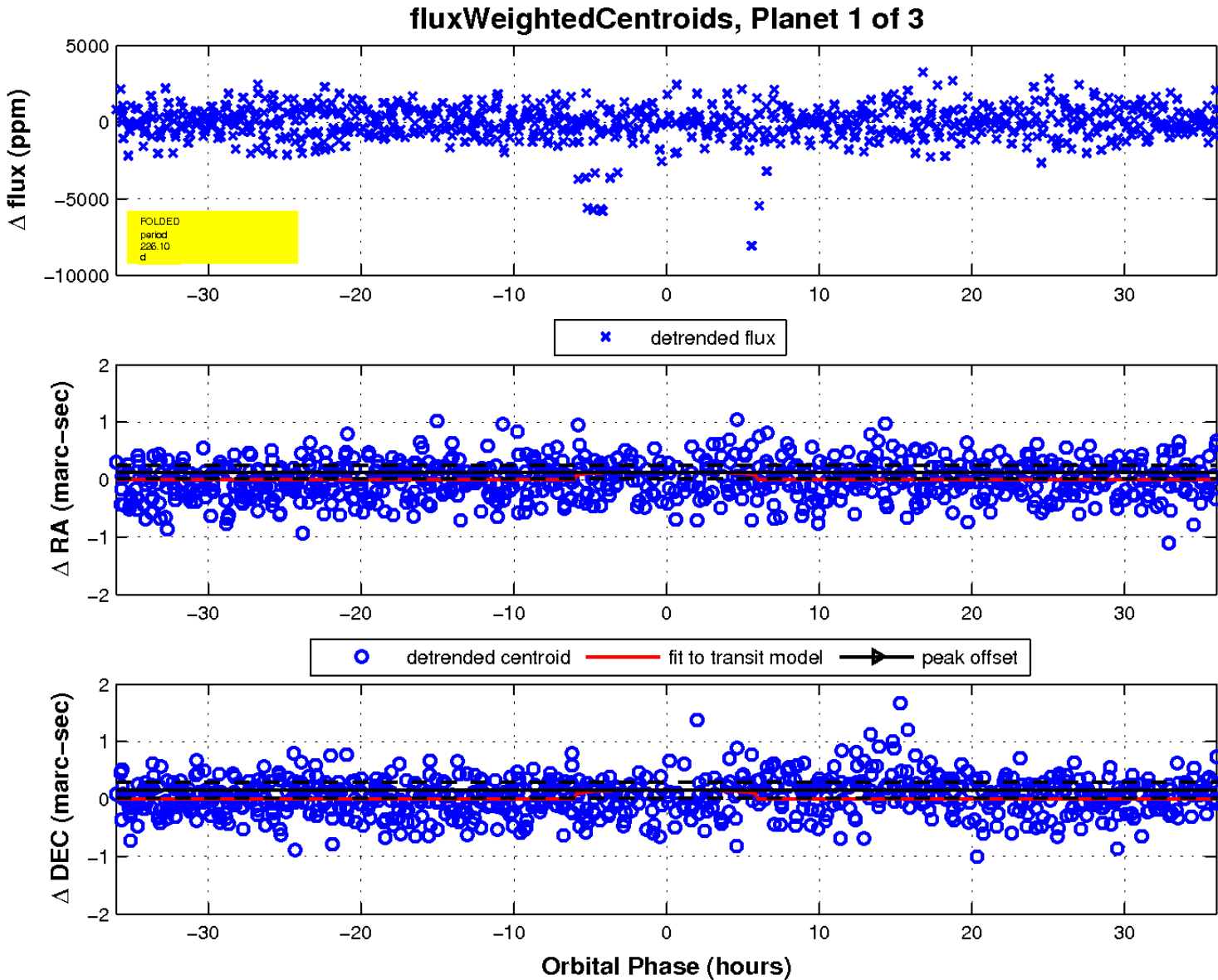
white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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

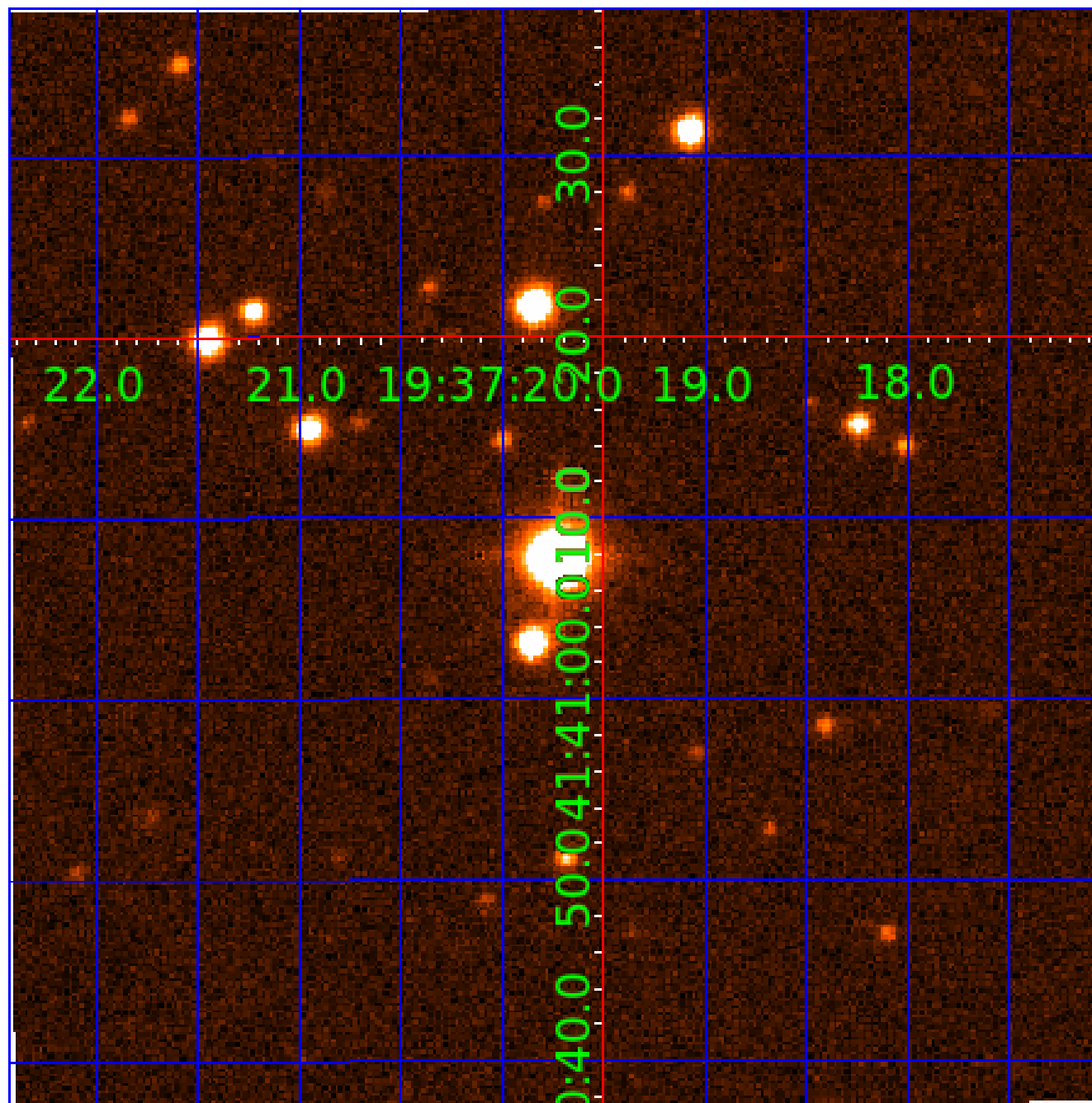
Q17 no difference image

Q17 no OOT image



UKIRT Image

Declination





# KIC 006293266

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006293266-01	OBS	No	226.098576	267.488272	103.3	12.015	42.0	1.5	2.11	8228	2.20	23.46
006293266-02	OBS	No	381.096941	469.638358	557.8	3.000	20.9	-1.0	2.11	8228	5.04	11.69
006293266-03	OBS	No	1.415829	132.202329	184.7	5.000	9.1	-1.0	2.11	8228	2.90	20322.21

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006293266-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
006293266-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_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.

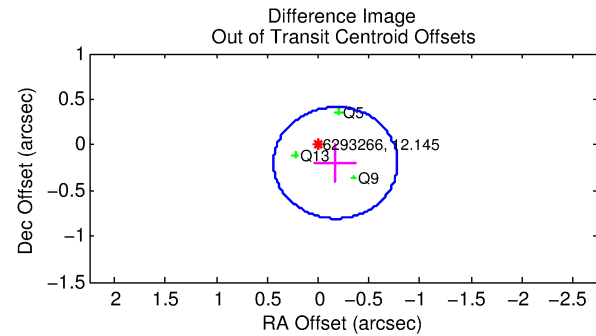
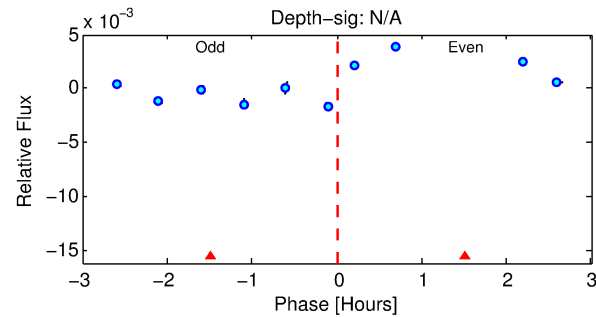
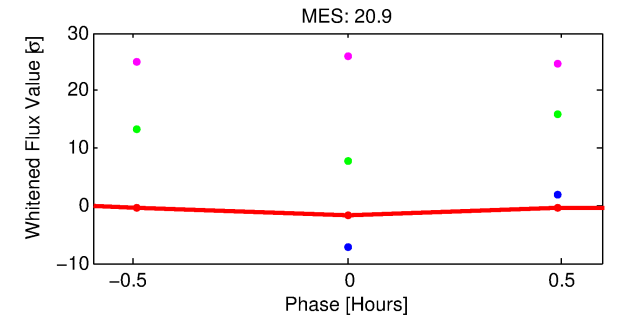
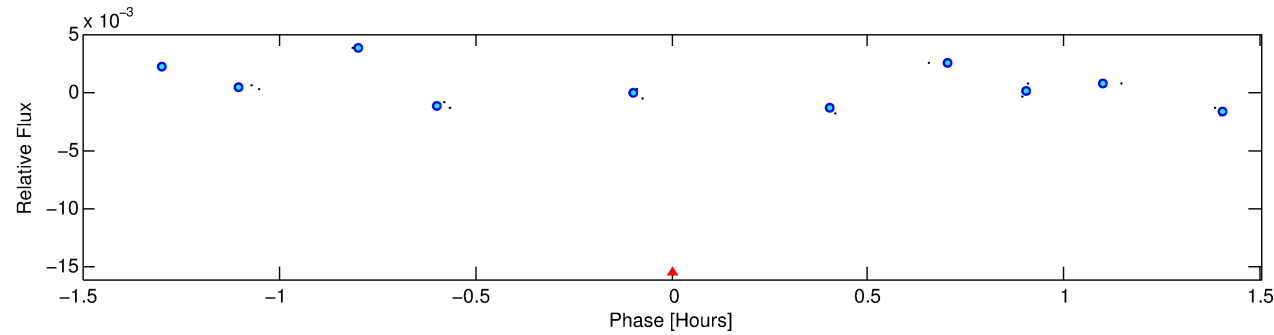
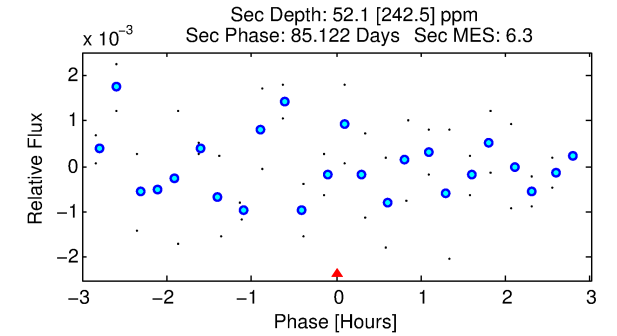
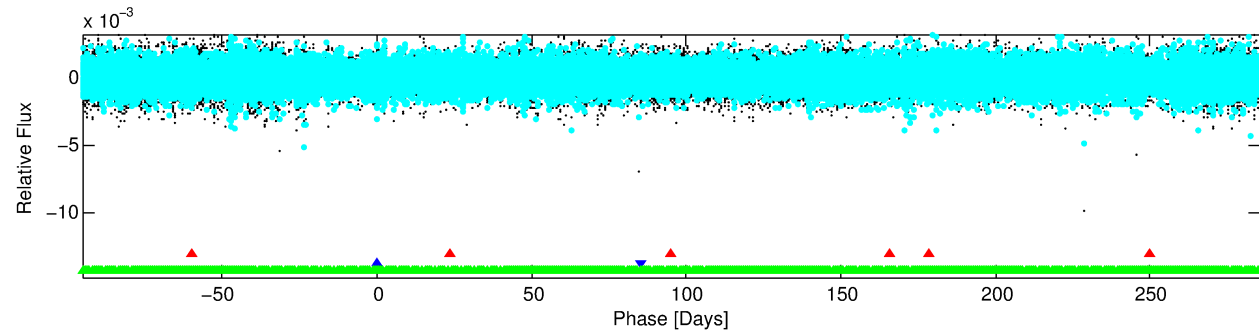
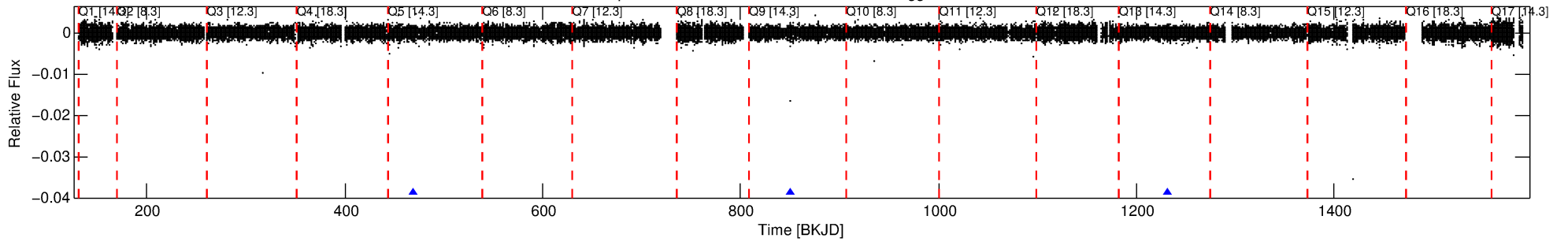
## Ephemeris Match Information For 006293266-02

No Significant Match Found

# DV One-Page Summary

KIC: 6293266 Candidate: 2 of 3 Period: 381.097 d

Kp: 12.15 R\*: 2.11 Rs Teff: 8228.0 K Logg: 4.04 Fe/H: -0.200



## TPS TCE Results:

Period = 381.09694 d  
Epoch = 469.6384 BKJD

DV fit results are unavailable

## DV Diagnostic Results:

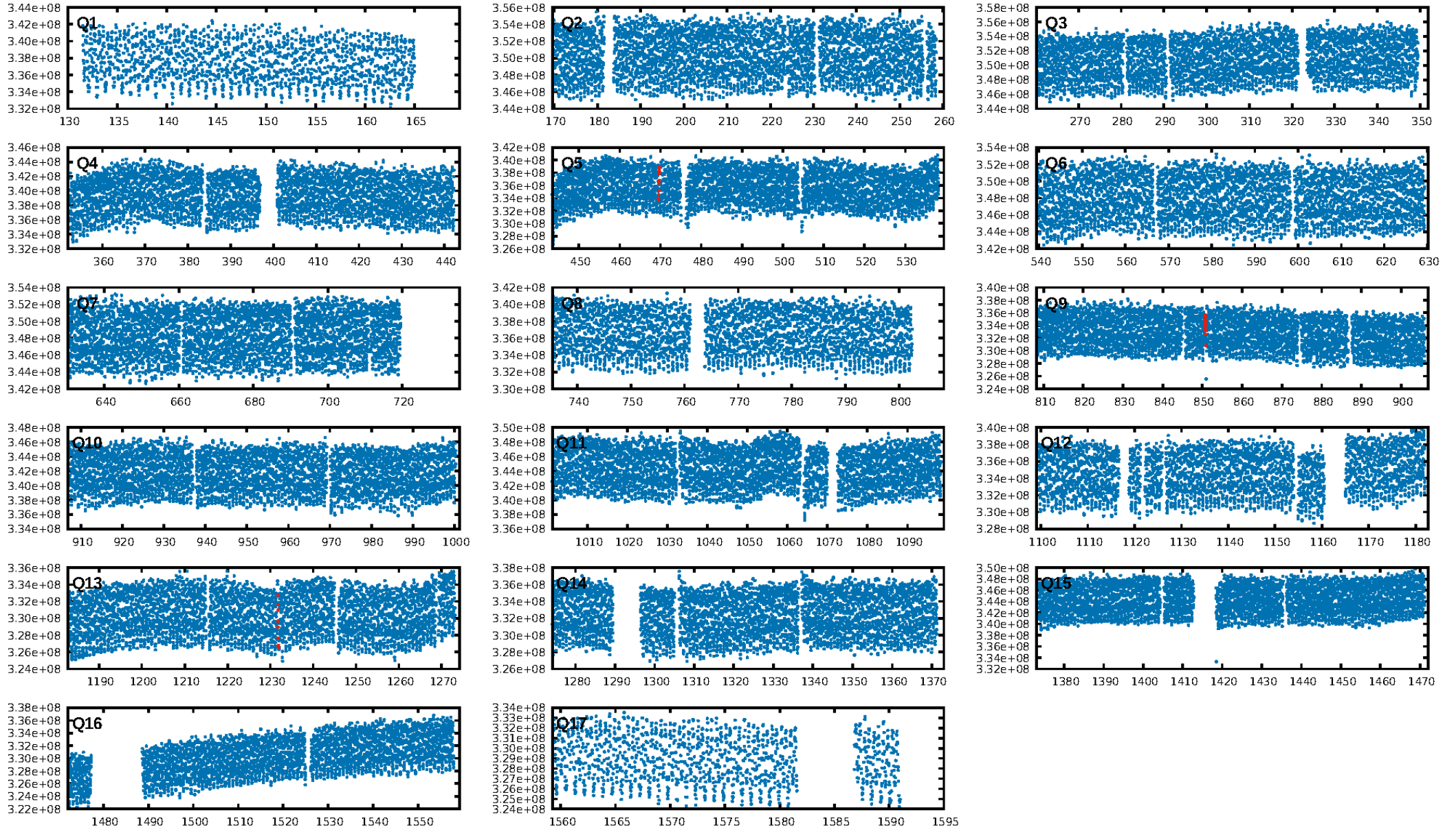
ShortPeriod-sig: 100.0% [300.38σ]  
LongPeriod-sig: N/A  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: 1.23e-16  
RollingBand-fgt: 1.00 [3/3]  
GhostDiagnostic-chr: -0.485

Centroid-sig: 3.2%  
Centroid-so: 0.096 arcsec [1.67σ]  
OotOffset-rm: 0.260 arcsec [1.28σ]  
KicOffset-rm: 0.199 arcsec [1.00σ]  
OotOffset-st: 0/0/0/3 [3]  
KicOffset-st: 0/0/0/3 [3]  
DiffImageQuality-fgm: 1.00 [3/3]  
DiffImageOverlap-fno: 0.67 [2/3]

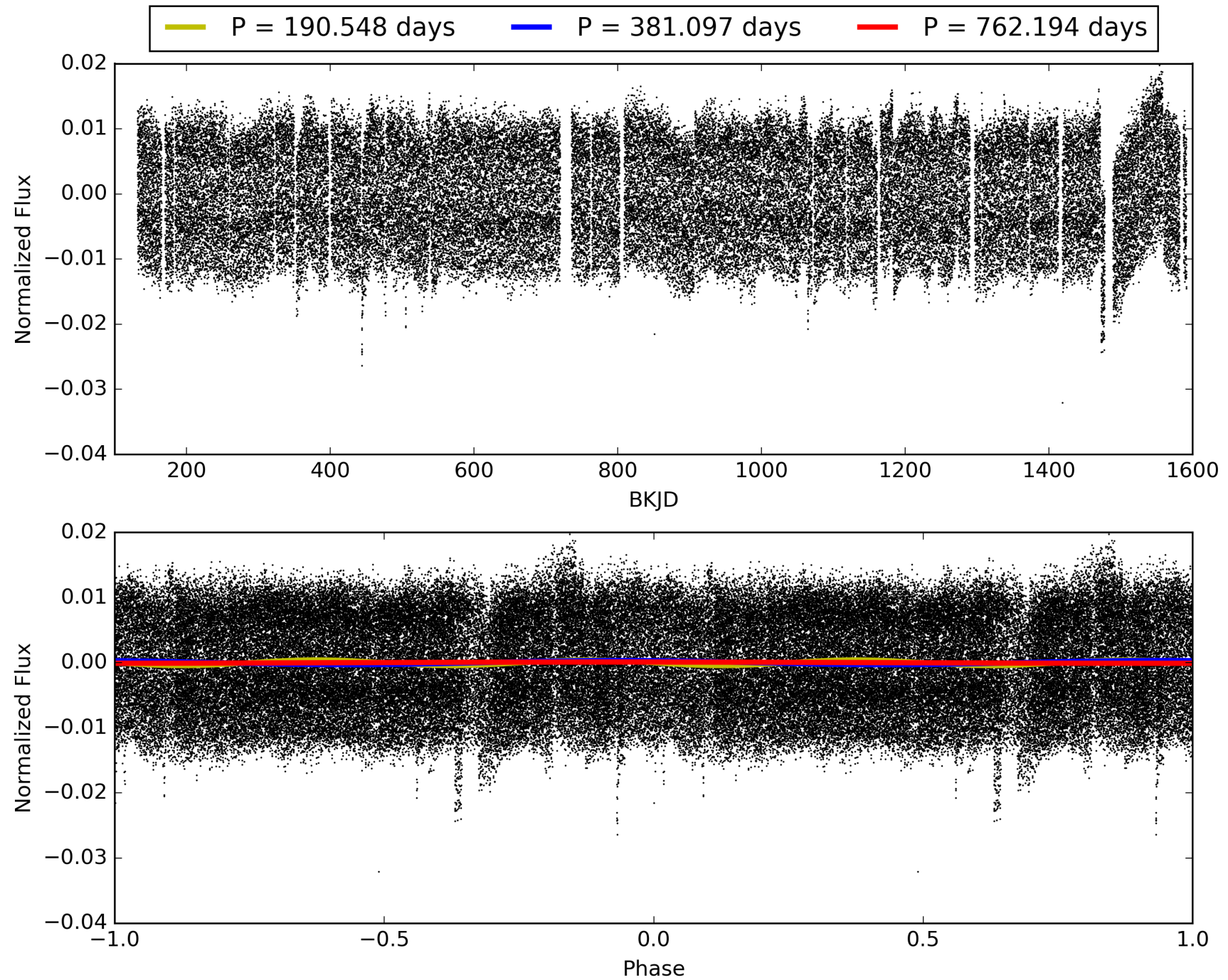
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:39:42 Z

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

# TCE 006293266-02, PDC Light Curves

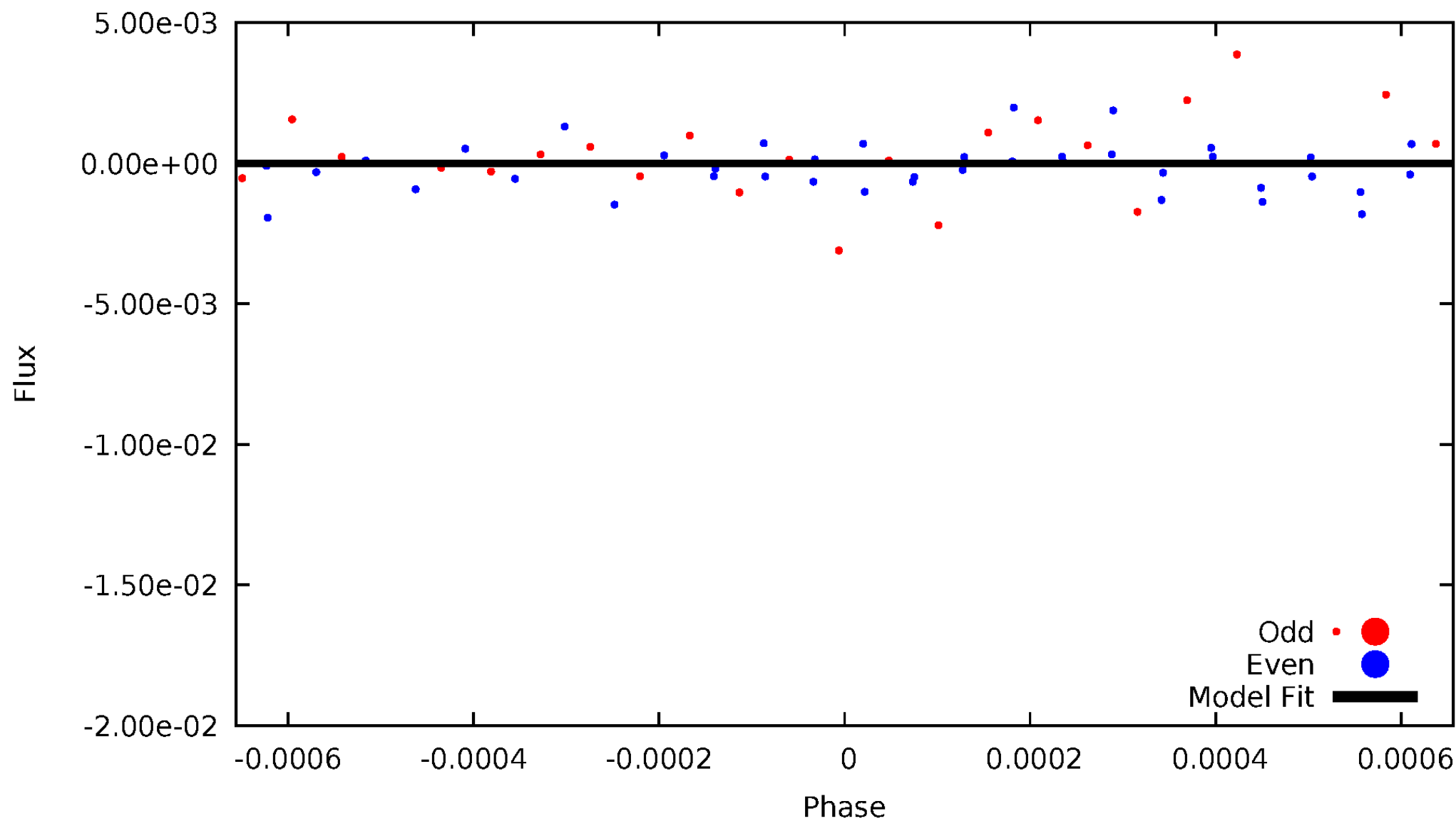


TCE 006293266-02

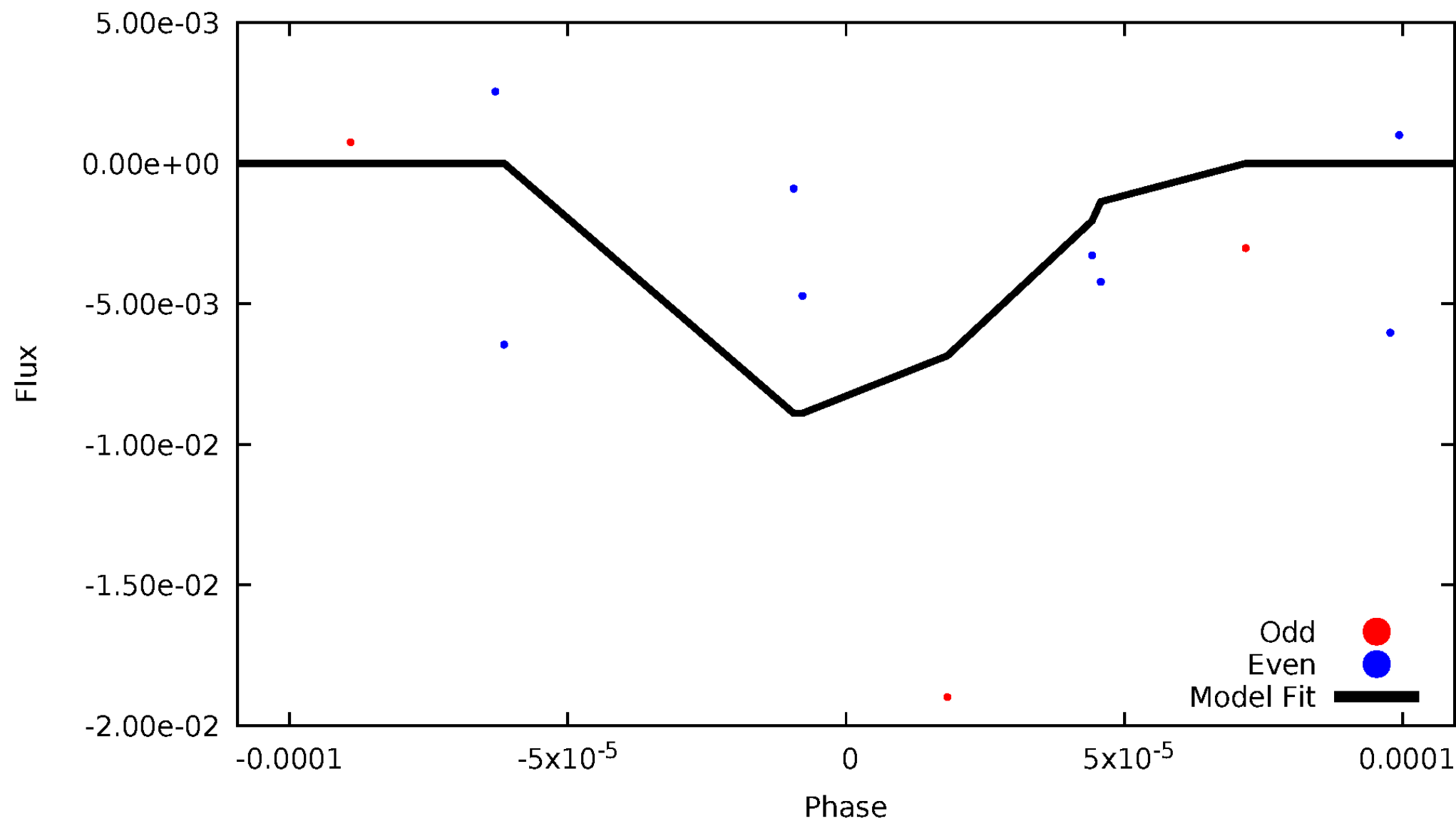


# DV Odd/Even

TCE 006293266-02



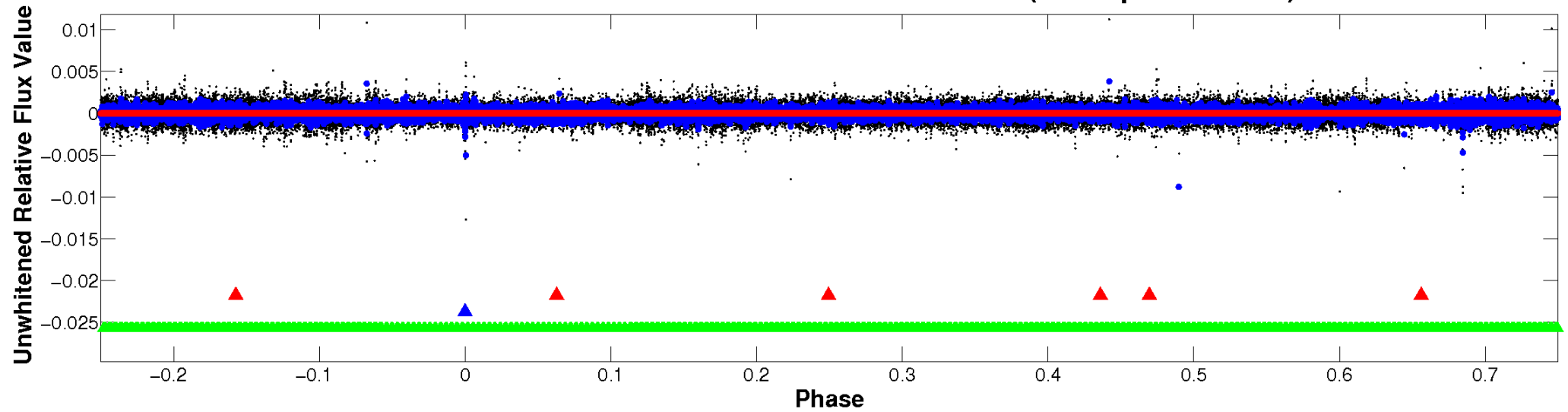
TCE 006293266-02



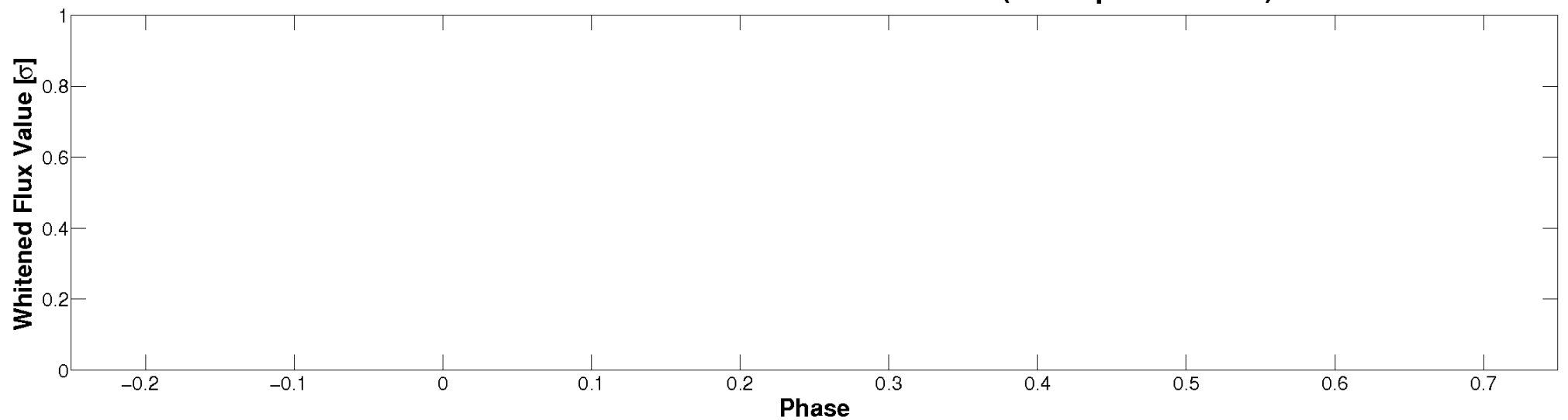


# Non-Whitened Vs. Whitened Light Curve

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

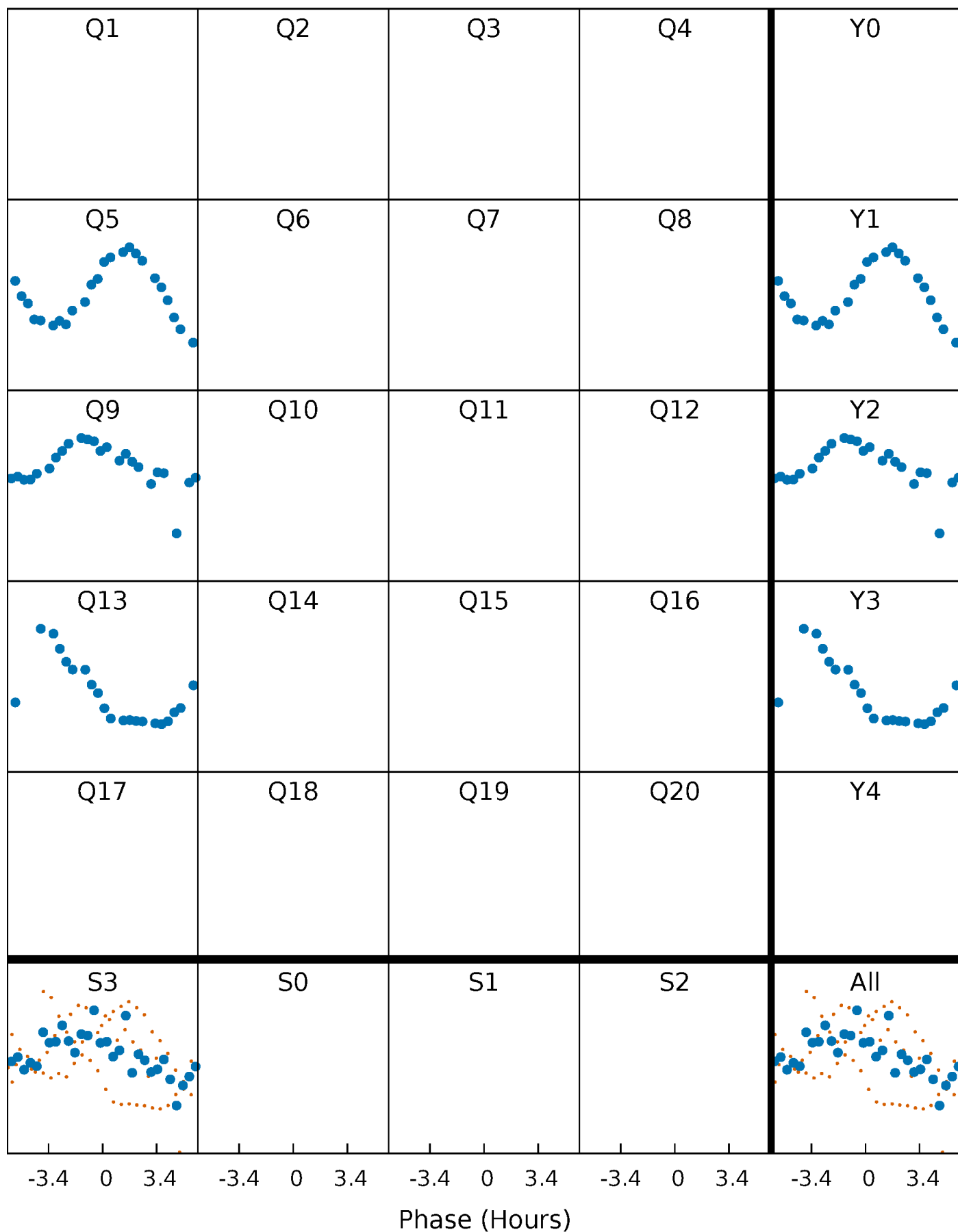


**Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)**



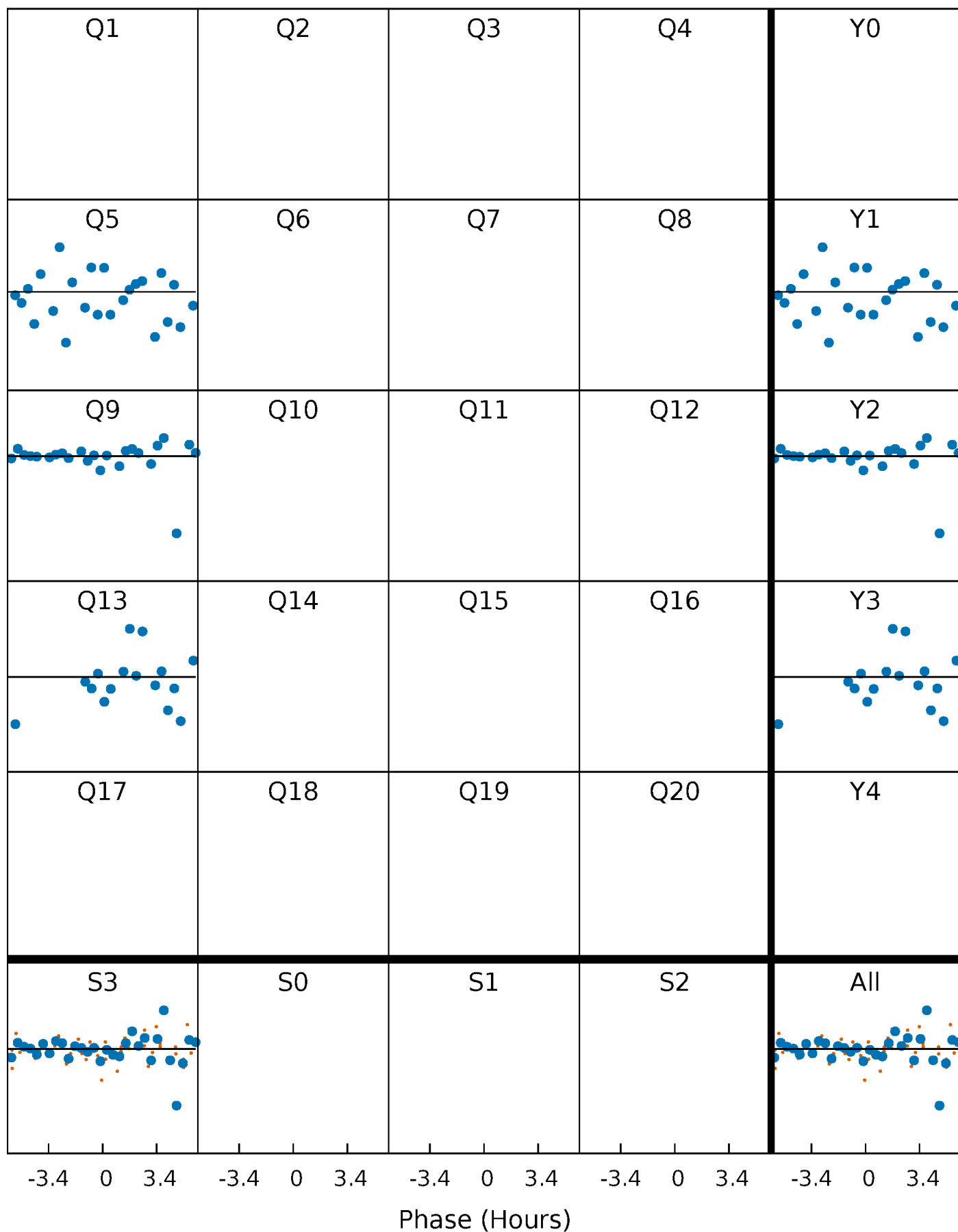
# PDC Quarter-Phased Transit Curves

TCE 006293266-02     $P=381.096941$  Days     $T_0=469.638358$  (BKJD)



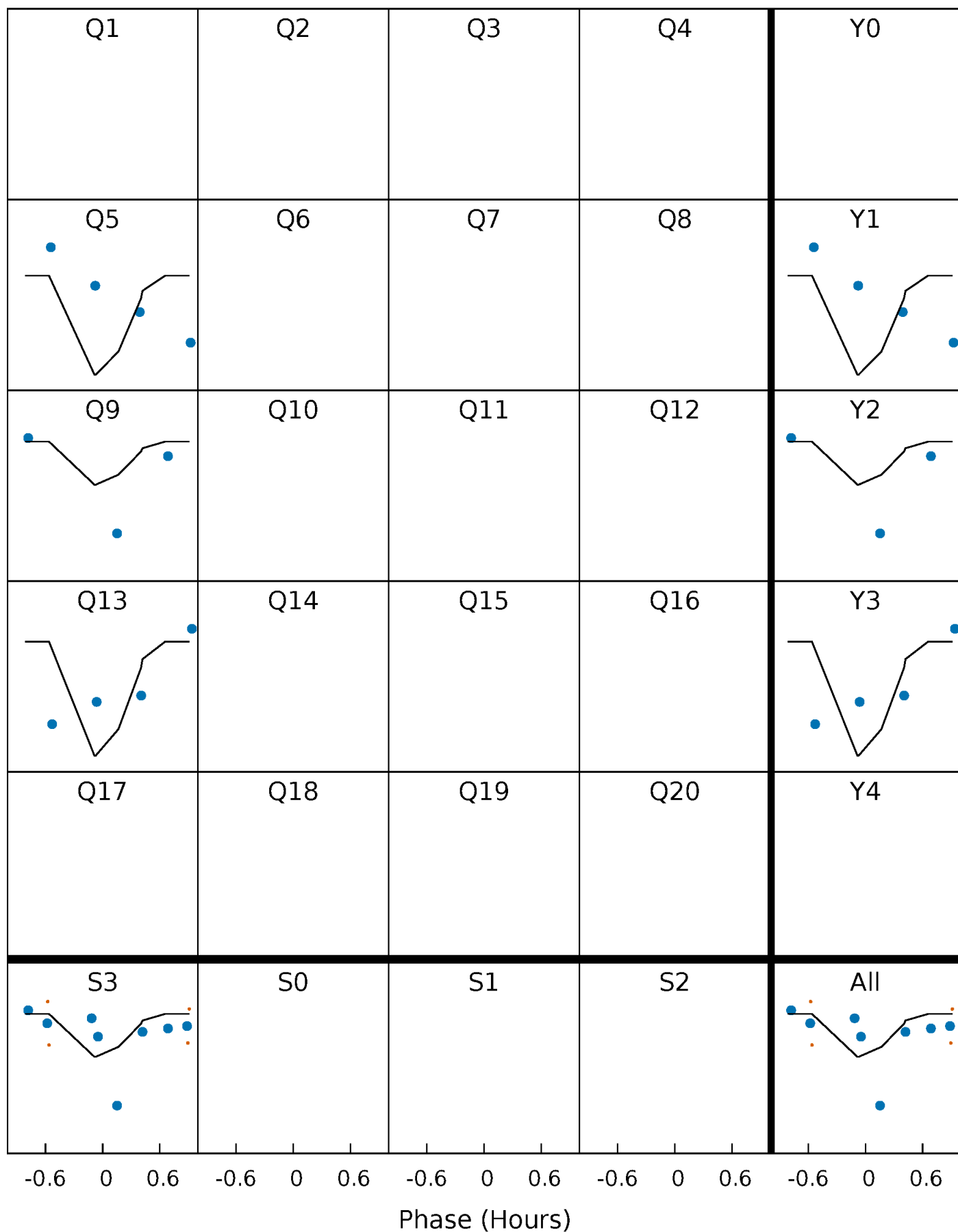
# DV Quarter-Phased Transit Curves

TCE 006293266-02     $P=381.096941$  Days     $T_0=469.638358$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

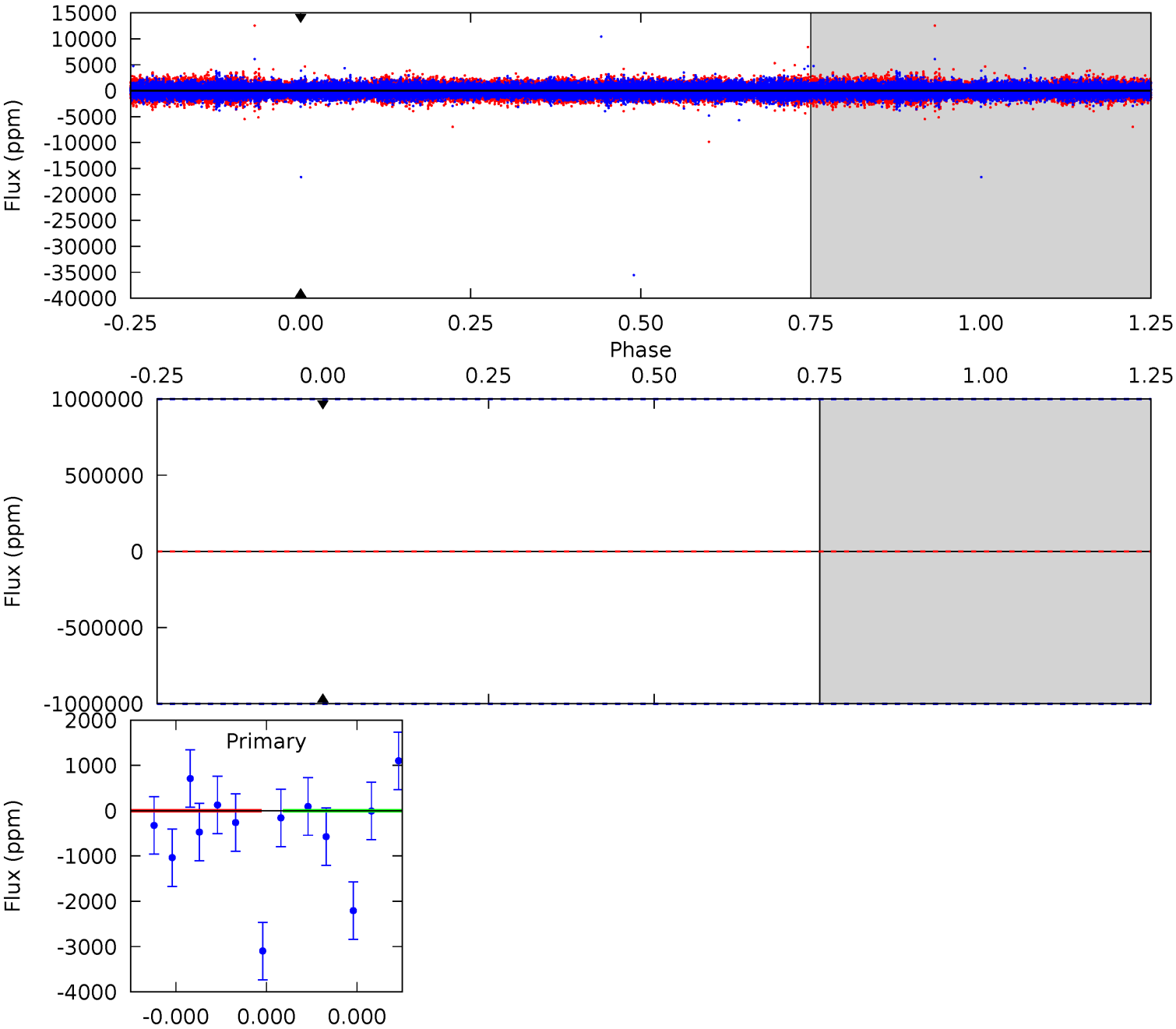
TCE 006293266-02 P=381.096941 Days  $T_0=469.833480$  (BKJD)



# DV Model-Shift Uniqueness Test

006293266-02, P = 381.096941 Days, E = 88.541417 Days

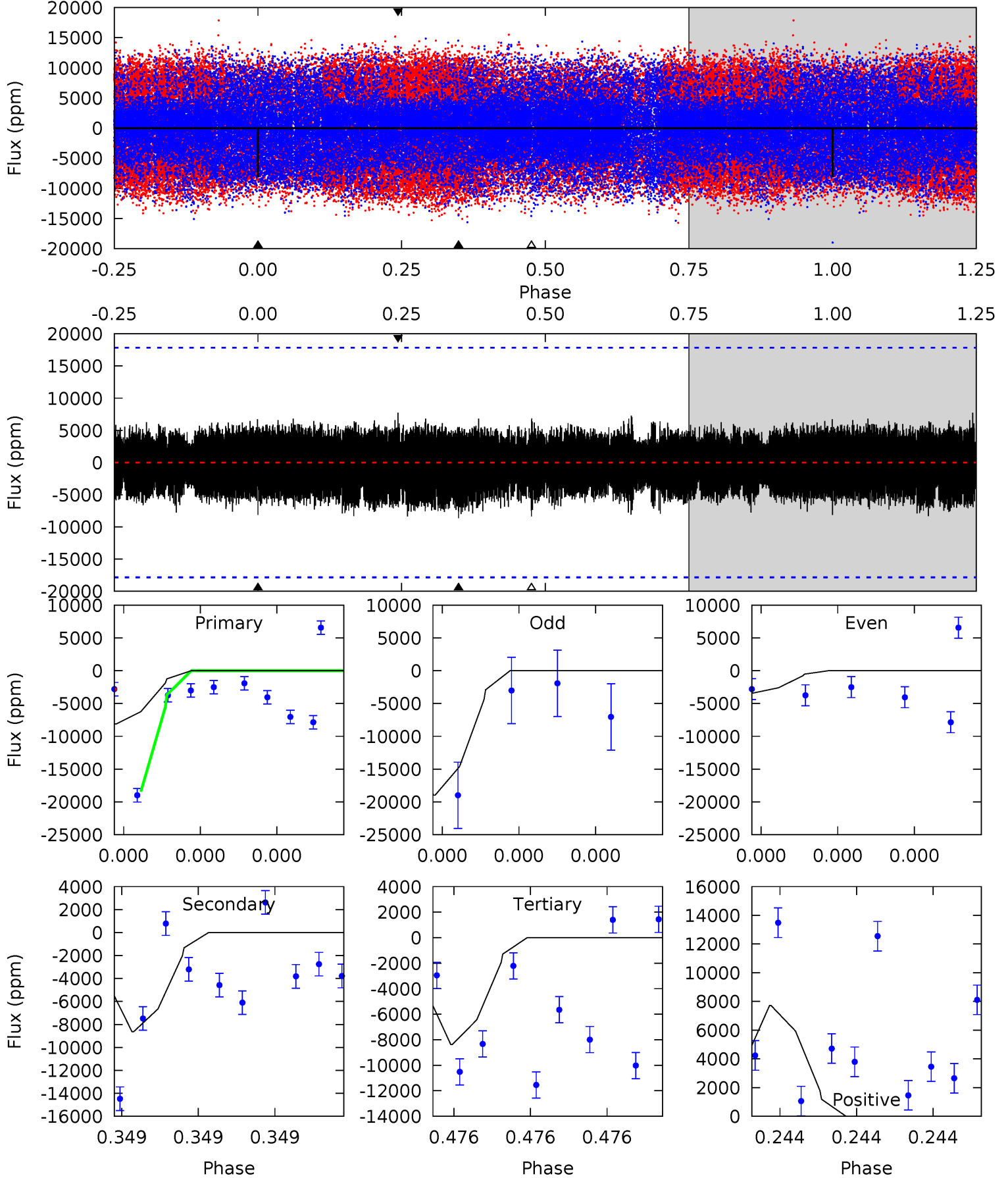
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

006293266-02, P = 381.096941 Days, E = 88.736539 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
2.67	2.85	2.76	2.54	5.88	3.94	0.81	-0.09	0.13	0.09	0.30	2.29	1.00	0.47	2.26





### Stellar Parameters For KIC 006293266

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$8228^{+65}_{-90}$	$4.043^{+0.138}_{-0.092}$	$-0.200^{+0.050}_{-0.200}$	$2.108^{+0.266}_{-0.398}$	$1.790^{+0.057}_{-0.199}$	$0.269^{+0.195}_{-0.076}$
	+1%/-1%	+3%/-2%	+25%/-100%	+13%/-19%	+3%/-11%	+73%/-28%
Source	SPE68	SPE68	SPE68	DSEP		

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

### Secondary Eclipse Parameters for KIC 006293266-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	$A_{\text{obs}}$
DV	$0 \pm 1000000$	$17.19^{+17.69}_{-11.57}$	$656^{+24}_{-31}$	$7385^{+46792}_{-46495}$	$10892^{+559389}_{-405986}$
Alt.	$-8643 \pm 3033$	$26.90^{+21.60}_{-16.82}$	$660^{+23}_{-29}$	$7054^{+7180}_{-1839}$	$9989^{+63277}_{-7139}$

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

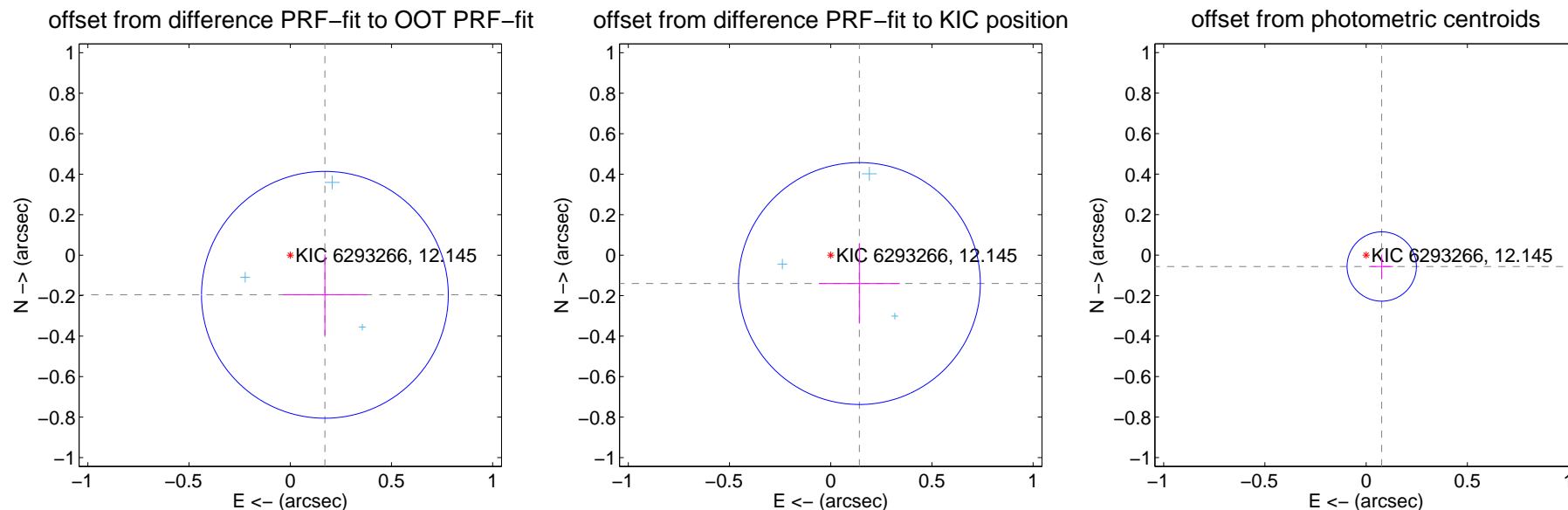
## DV Centroid Data

Supplemental centroid analysis for 006293266-02. Kepler magnitude: 12.14. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$0.260 \pm 0.203$	1.28	$-0.171 \pm 0.207$	$-0.196 \pm 0.200$
PRF-fit source offset from KIC position	$0.199 \pm 0.199$	1.00	$-0.142 \pm 0.200$	$-0.140 \pm 0.198$
photometric centroid source offset	$0.10 \pm 0.06$	1.67	$-0.08 \pm 0.06$	$-0.06 \pm 0.06$

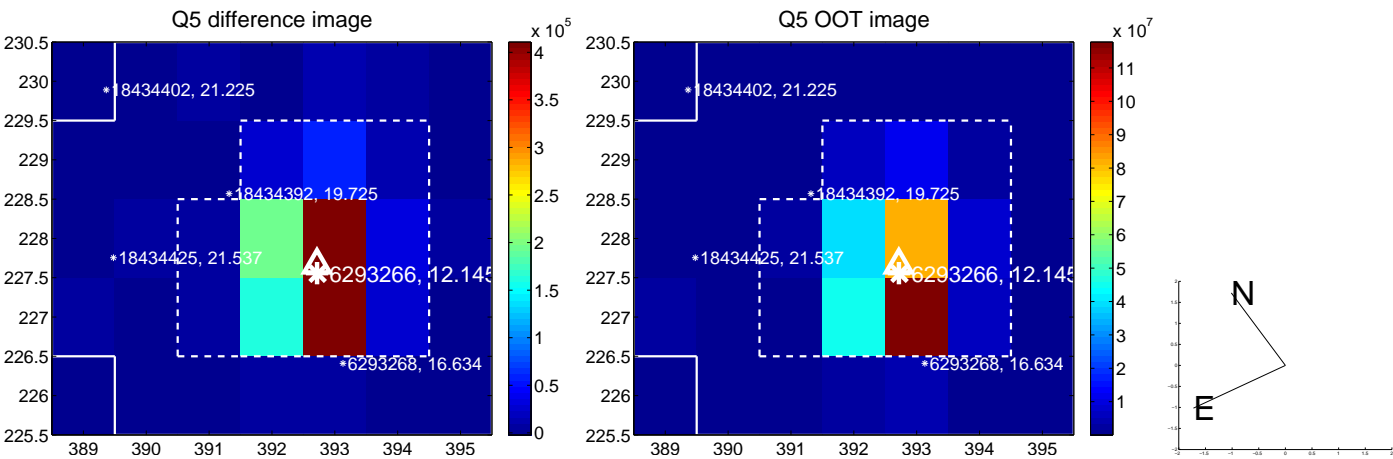


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . 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.

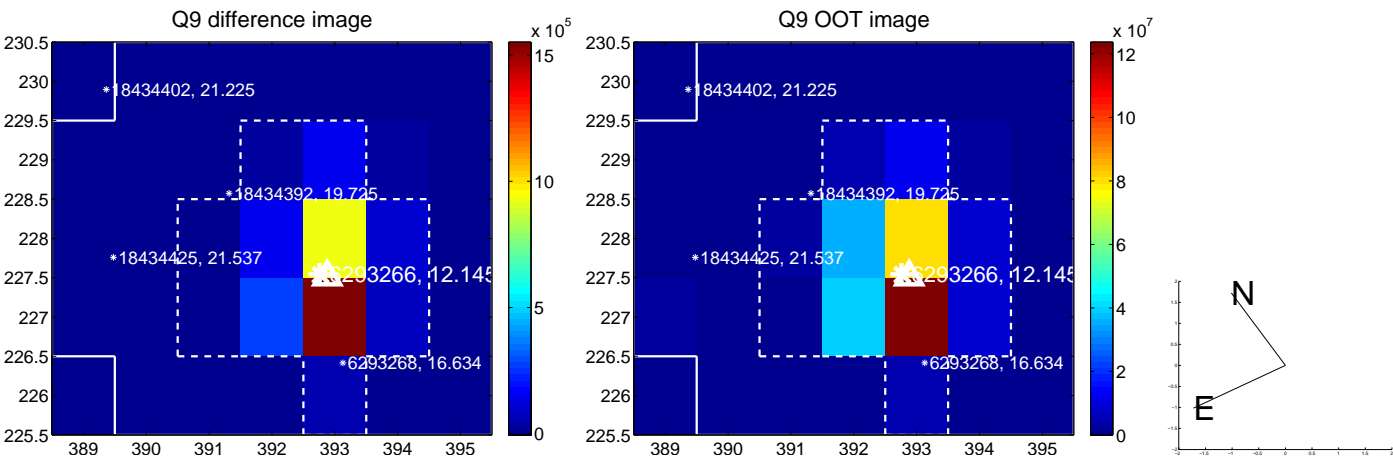
white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



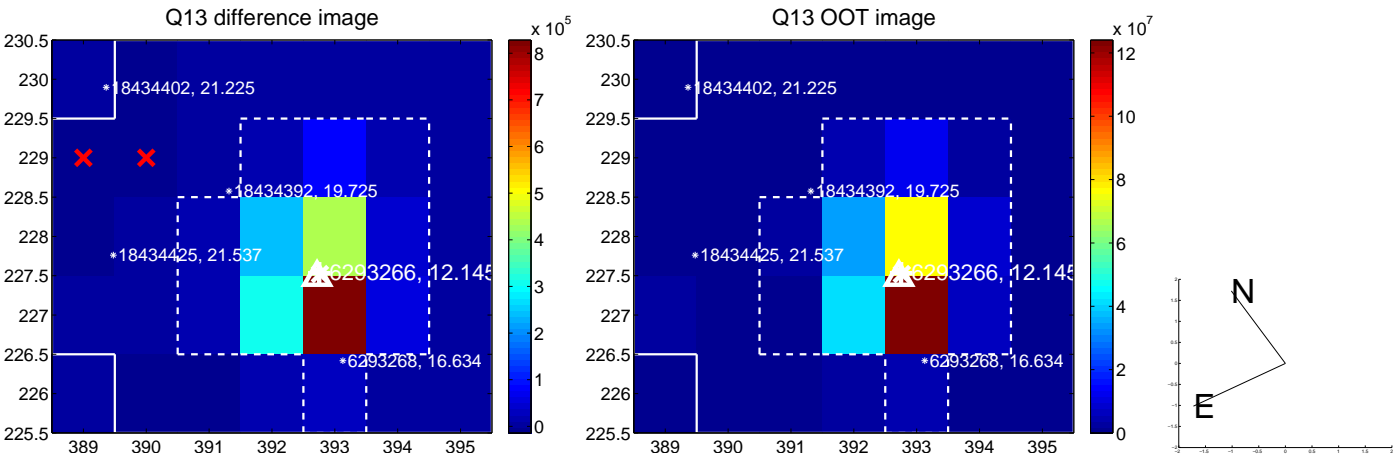
white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



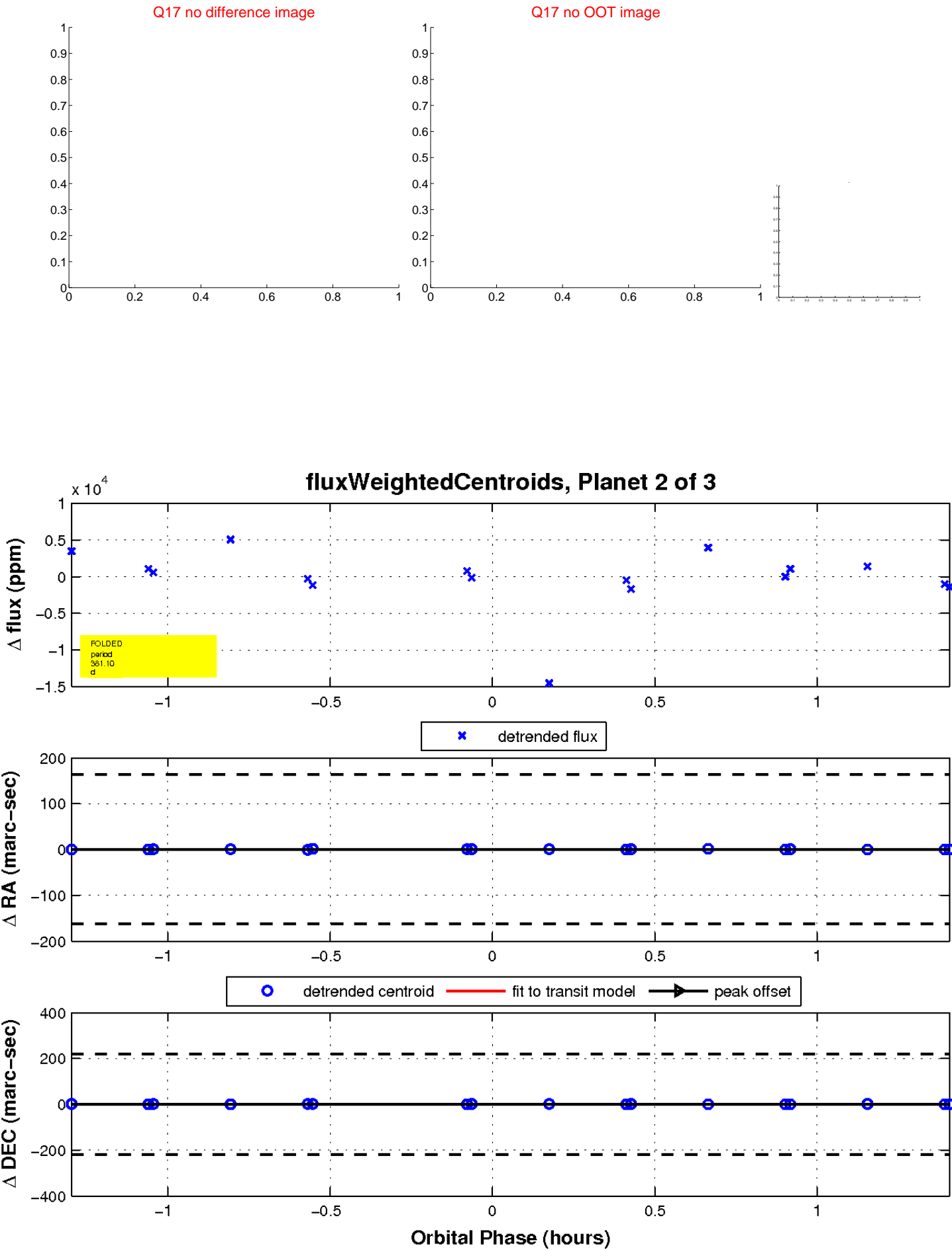
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

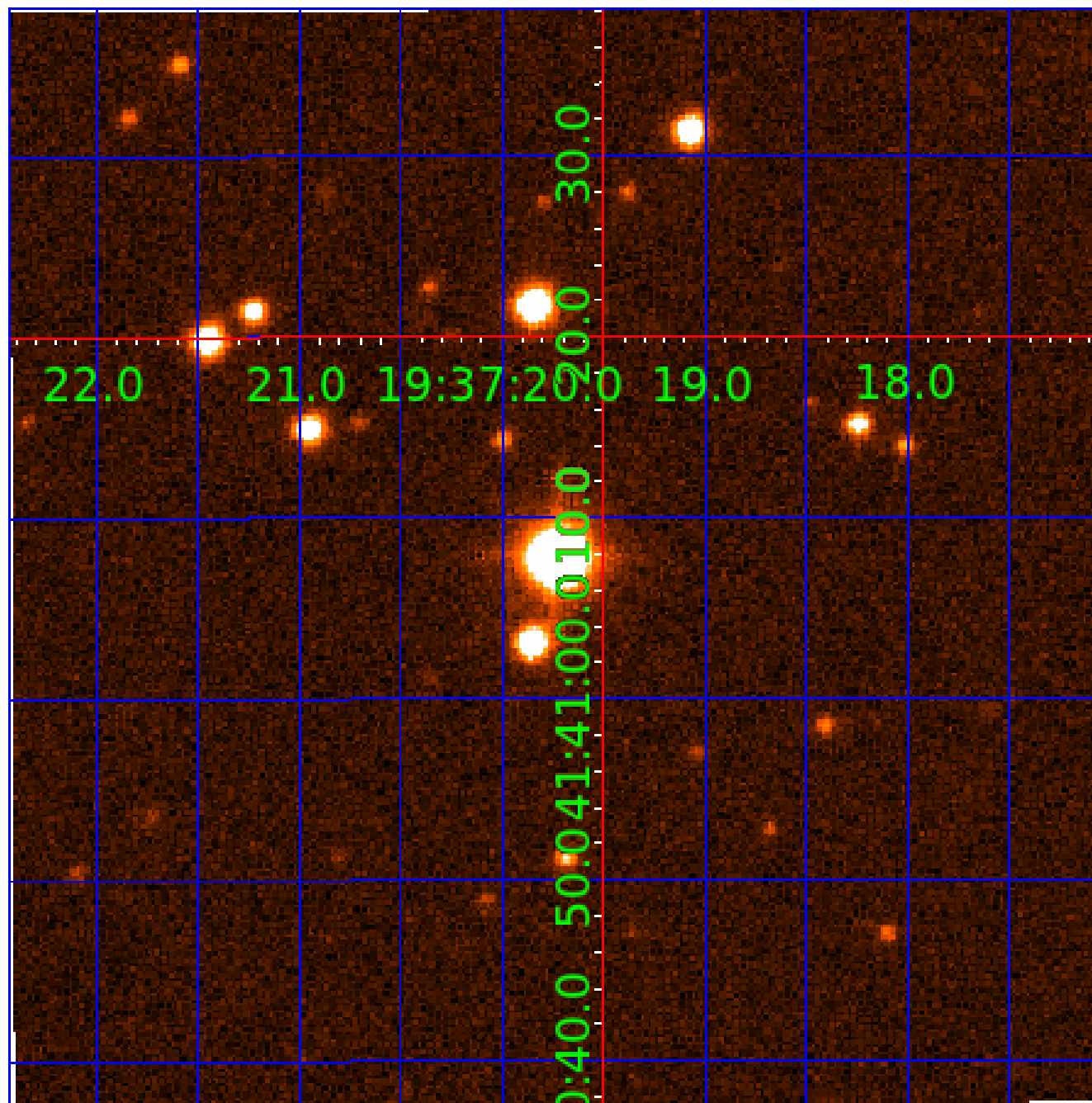


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



UKIRT Image

Declination





# KIC 006293266

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006293266-01	OBS	No	226.098576	267.488272	103.3	12.015	42.0	1.5	2.11	8228	2.20	23.46
006293266-02	OBS	No	381.096941	469.638358	557.8	3.000	20.9	-1.0	2.11	8228	5.04	11.69
006293266-03	OBS	No	1.415829	132.202329	184.7	5.000	9.1	-1.0	2.11	8228	2.90	20322.21

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006293266-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
006293266-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
006293266-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_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.

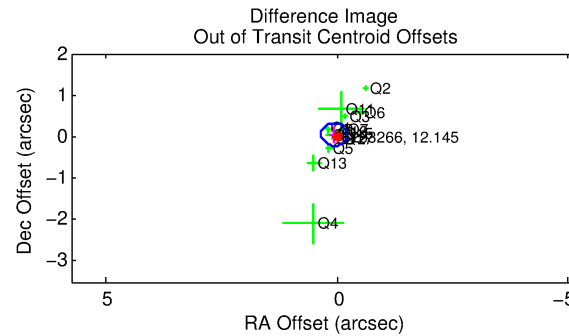
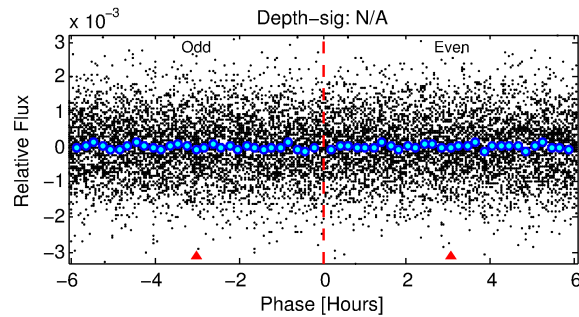
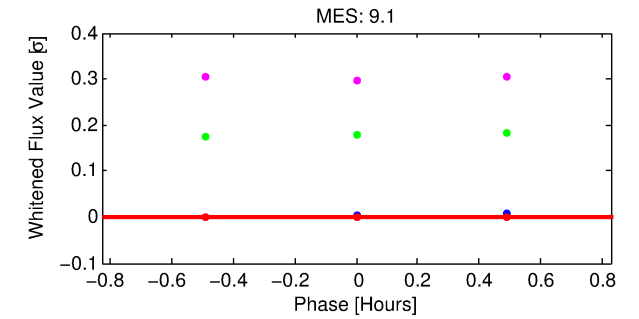
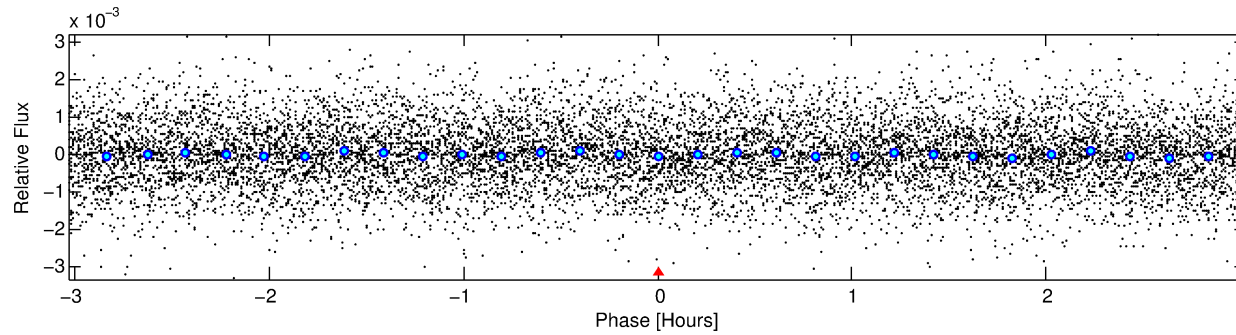
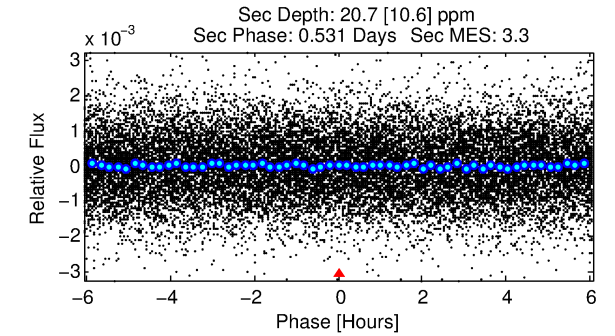
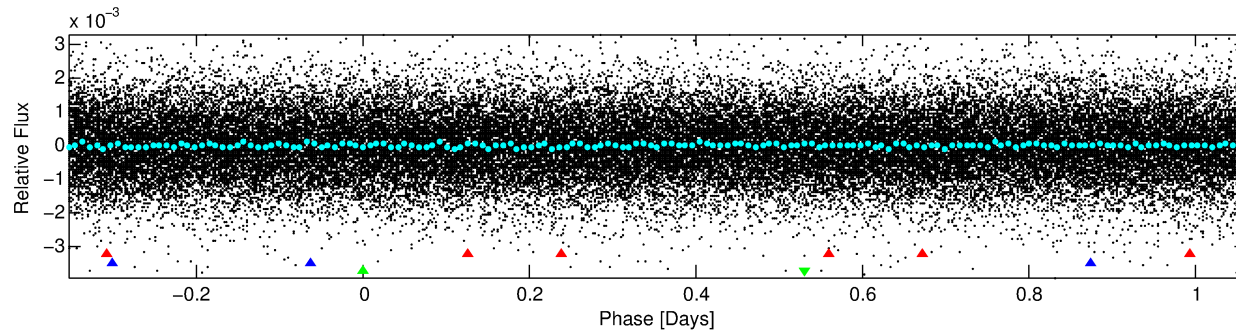
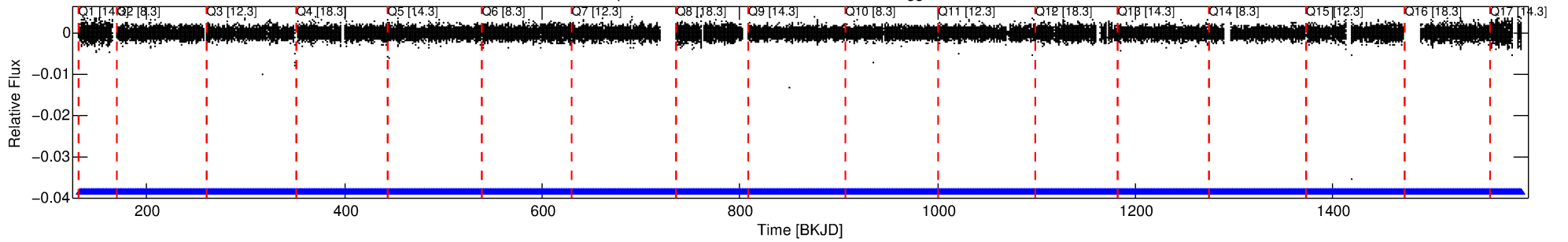
## Ephemeris Match Information For 006293266-03

No Significant Match Found

# DV One-Page Summary

KIC: 6293266 Candidate: 3 of 3 Period: 1.416 d

Kp: 12.15 R\*: 2.11 Rs Teff: 8228.0 K Logg: 4.04 Fe/H: -0.200



## TPS TCE Results:

Period = 1.41583 d  
Epoch = 132.2023 BKJD

DV fit results are unavailable

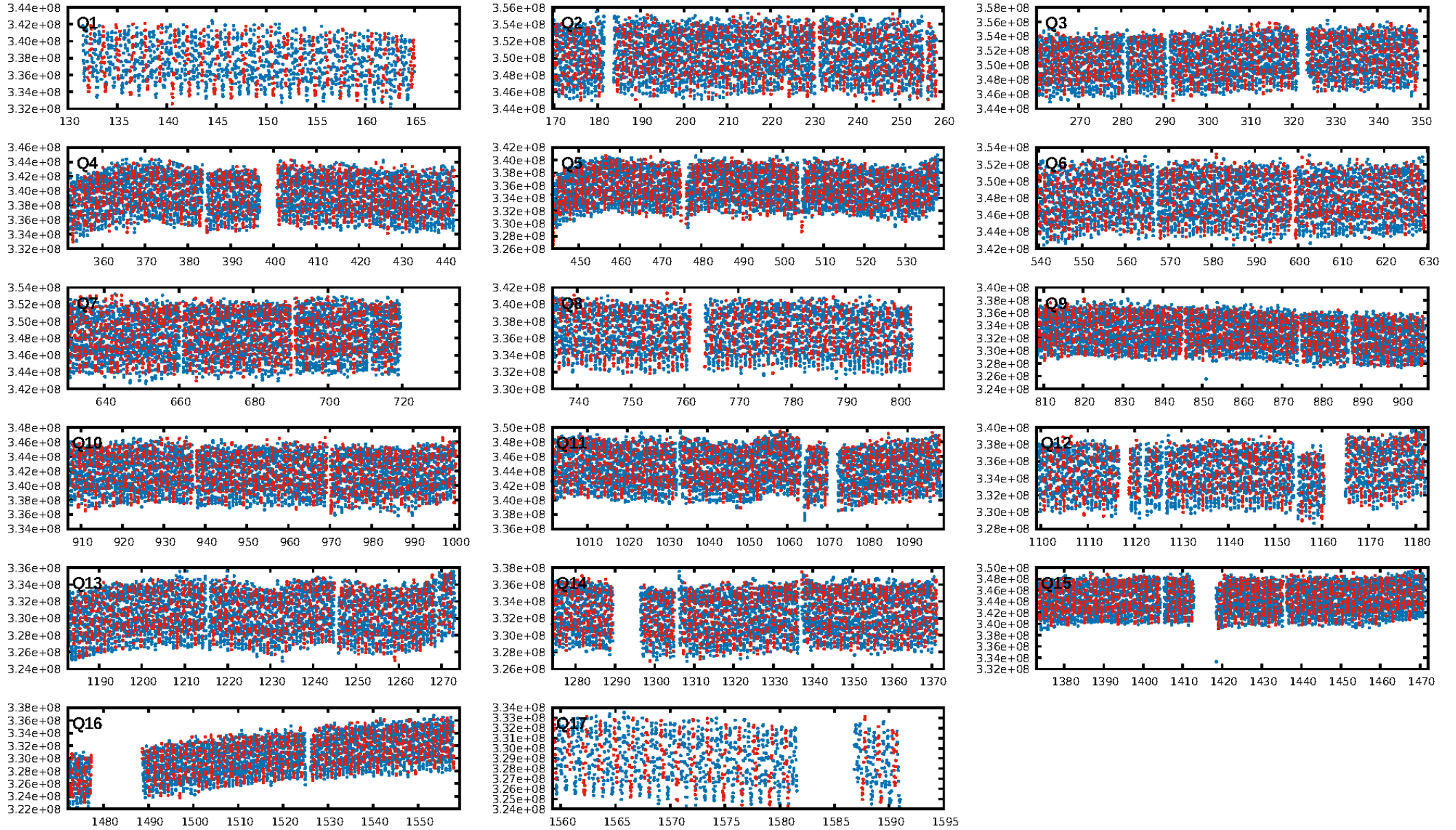
## DV Diagnostic Results:

ShortPeriod-sig: N/A  
LongPeriod-sig: 100.0% [414.35σ]  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: 1.53e-18  
RollingBand-fgt: 1.00 [896/896]  
GhostDiagnostic-chr: 3.809  
Centroid-sig: 0.0%  
Centroid-so: 0.705 arcsec [2.31σ]  
OotOffset-rm: 0.084 arcsec [0.91σ]  
KicOffset-rm: 0.145 arcsec [0.98σ]  
OotOffset-st: 3/4/4/5 [16]  
KicOffset-st: 3/4/4/5 [16]  
DiffImageQuality-fgm: 0.69 [11/16]  
DiffImageOverlap-fno: 1.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:39:50 Z

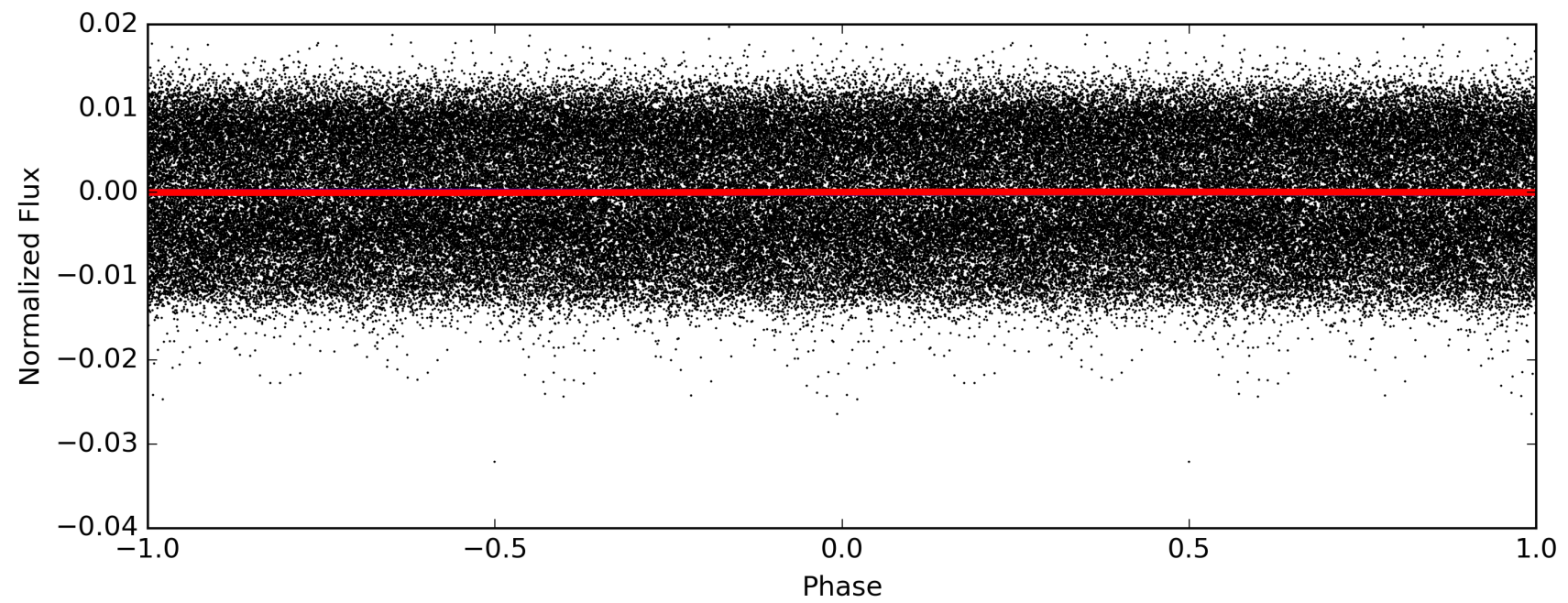
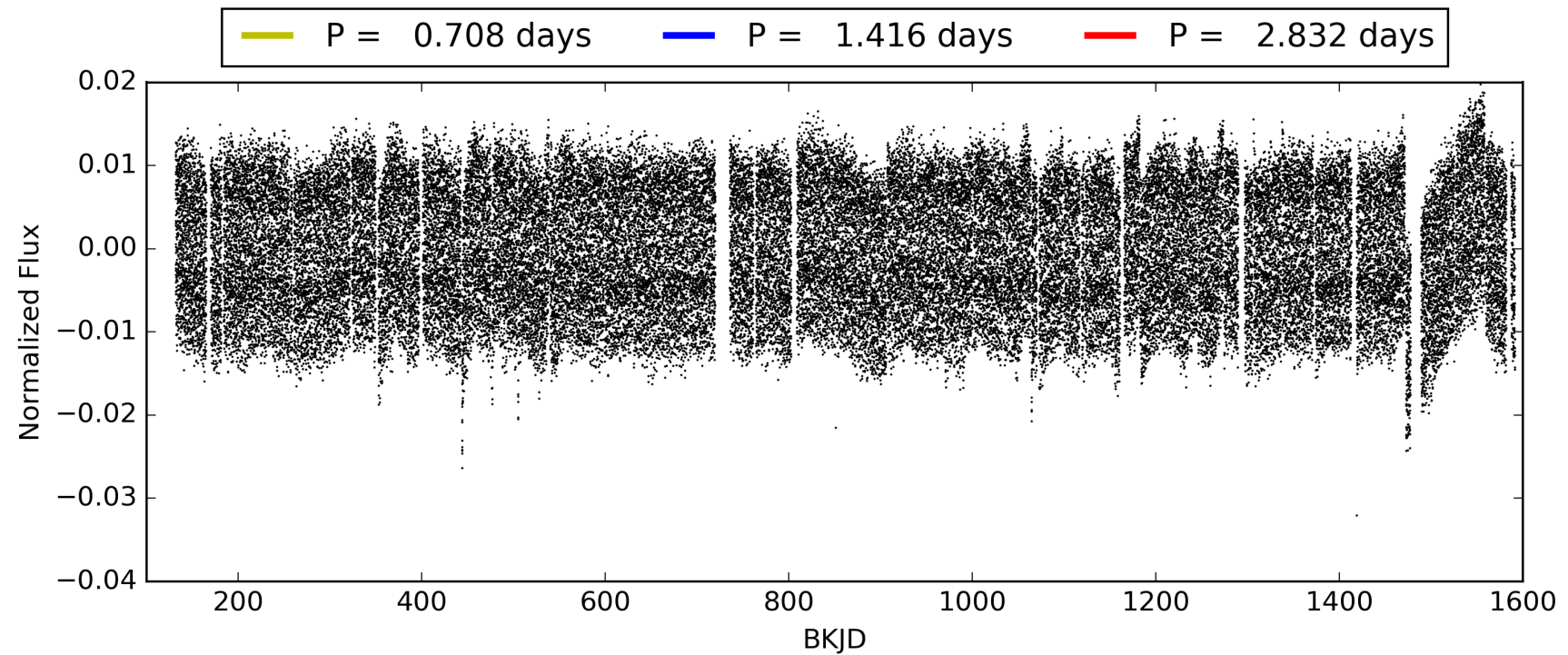
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

# TCE 006293266-03, PDC Light Curves



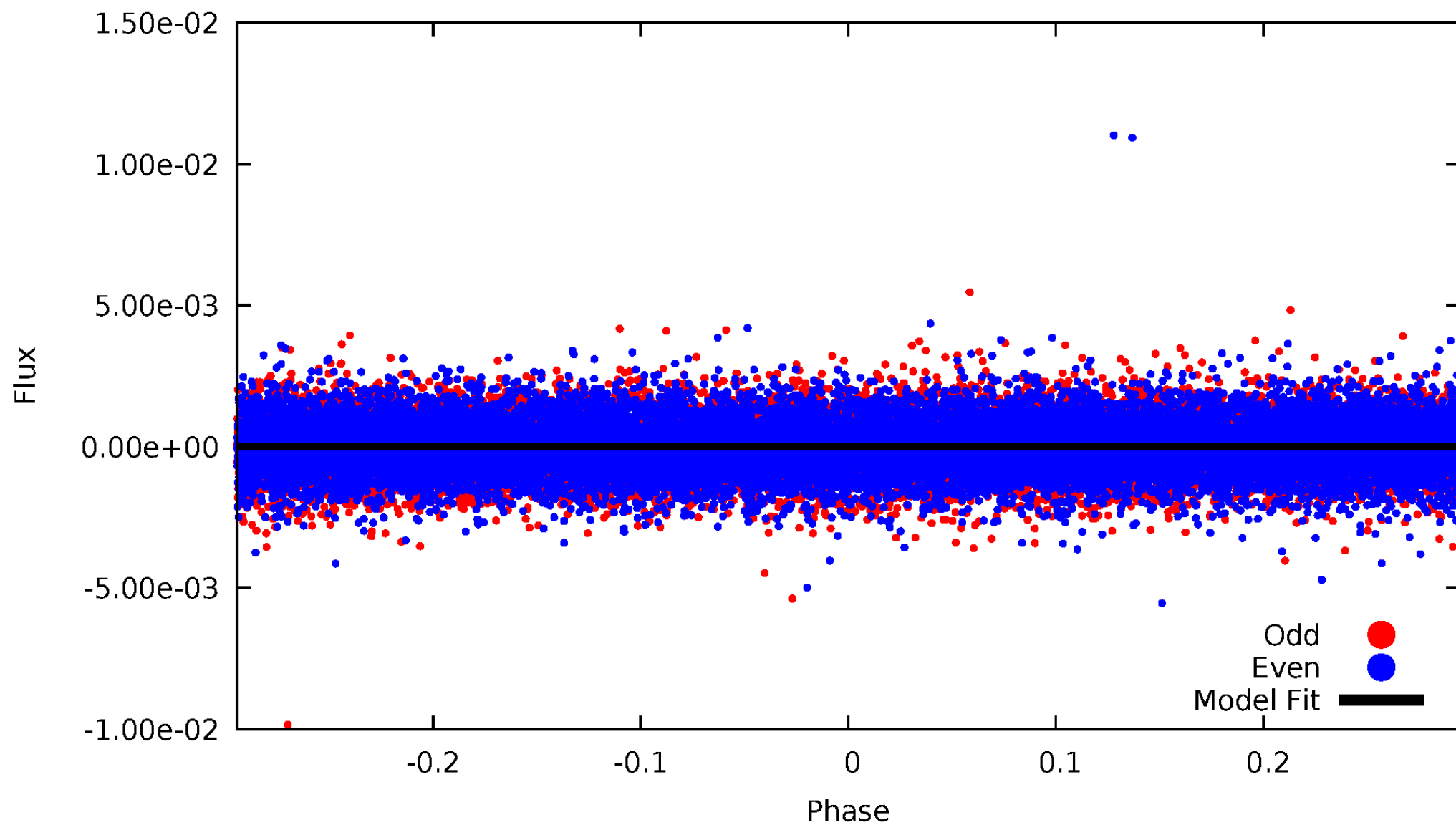


TCE 006293266-03



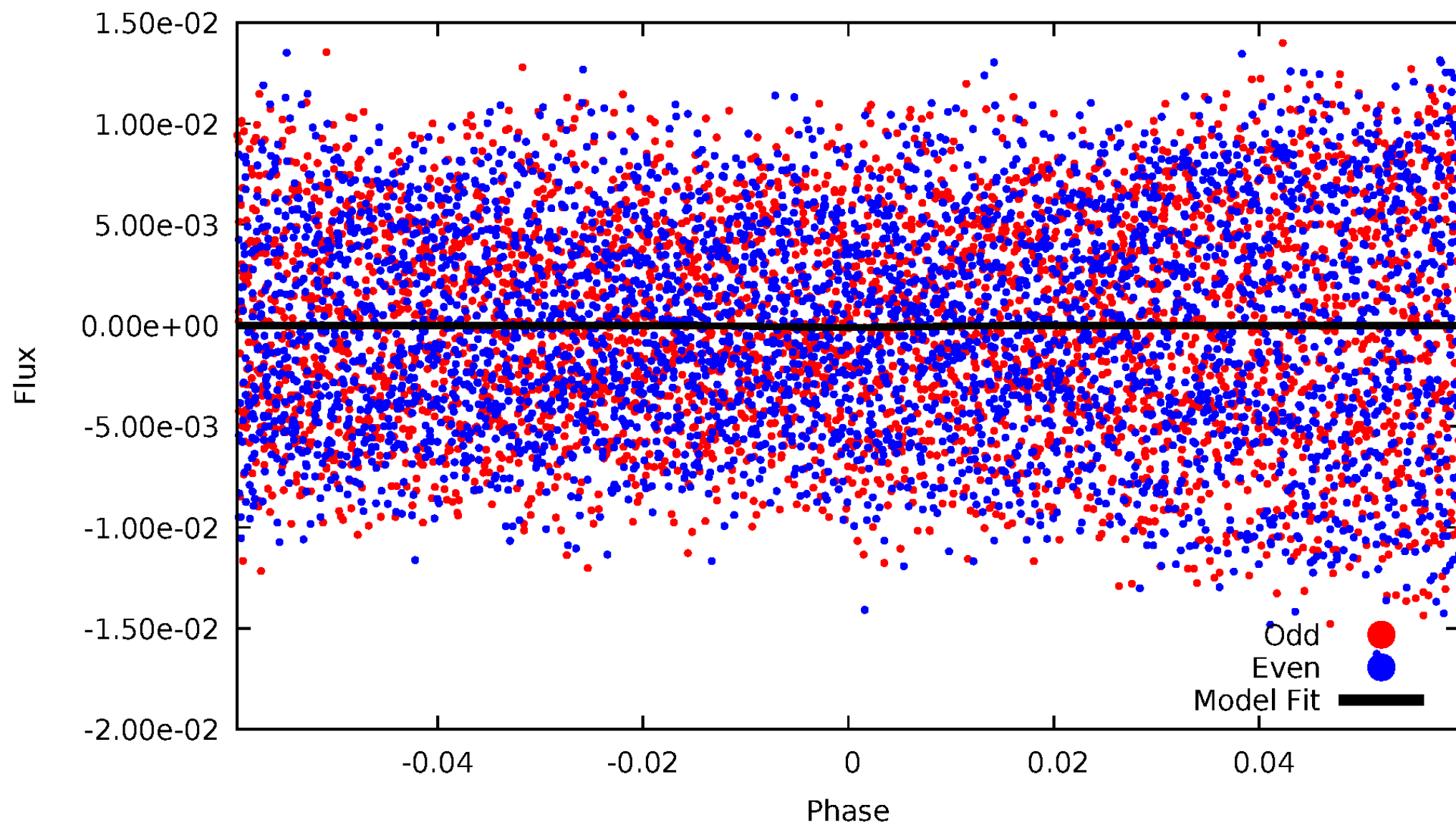
# DV Odd/Even

TCE 006293266-03

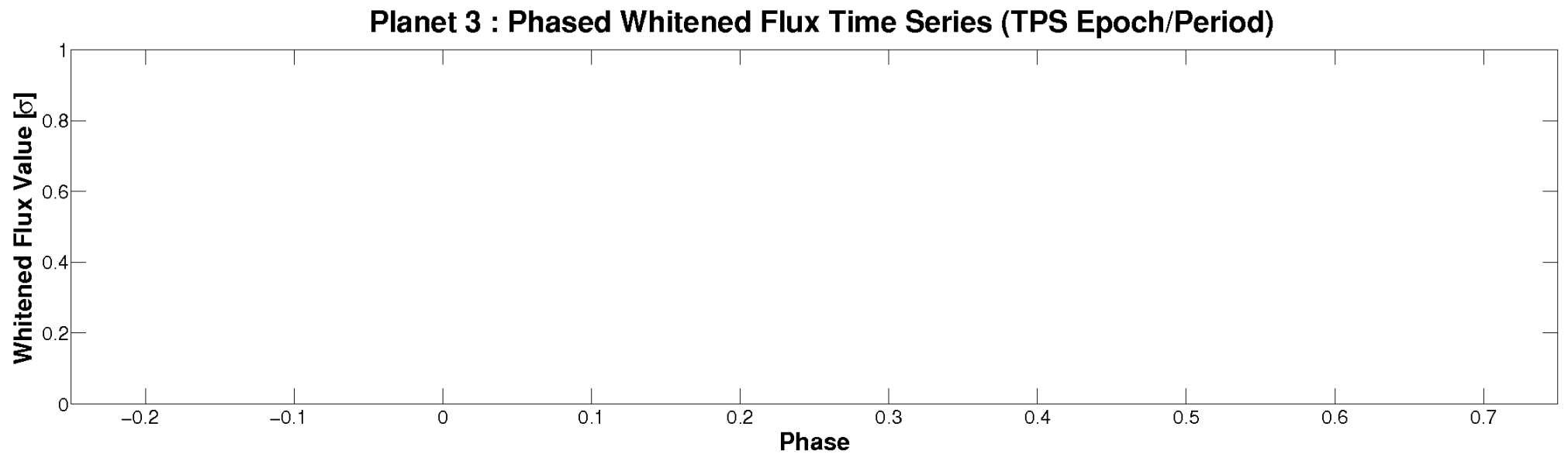
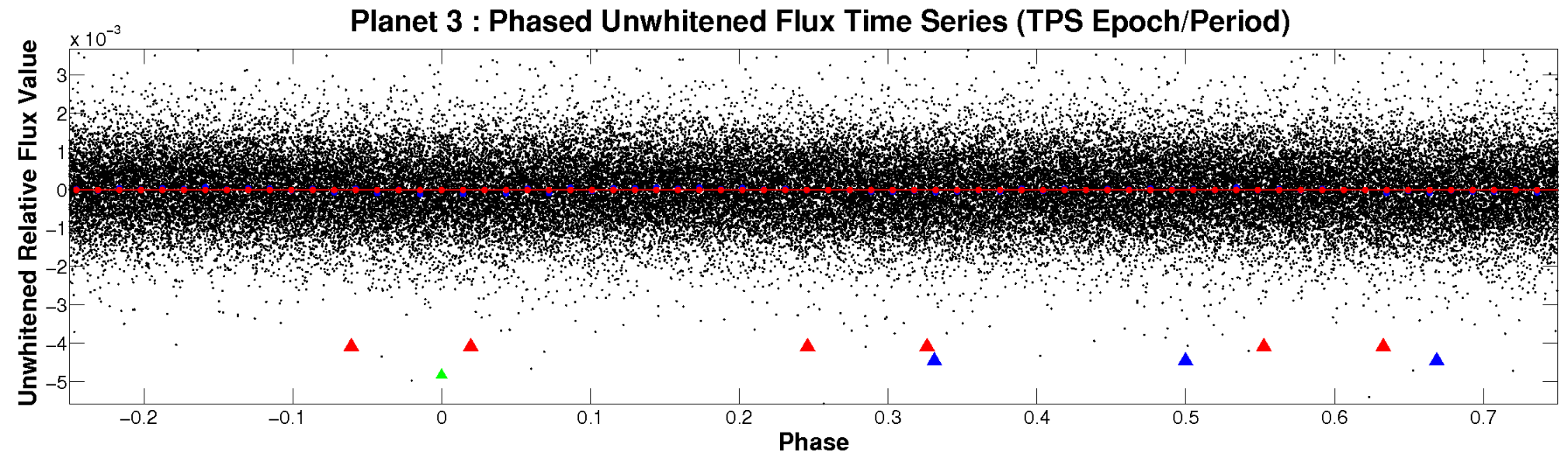


# ALT Odd/Even

TCE 006293266-03

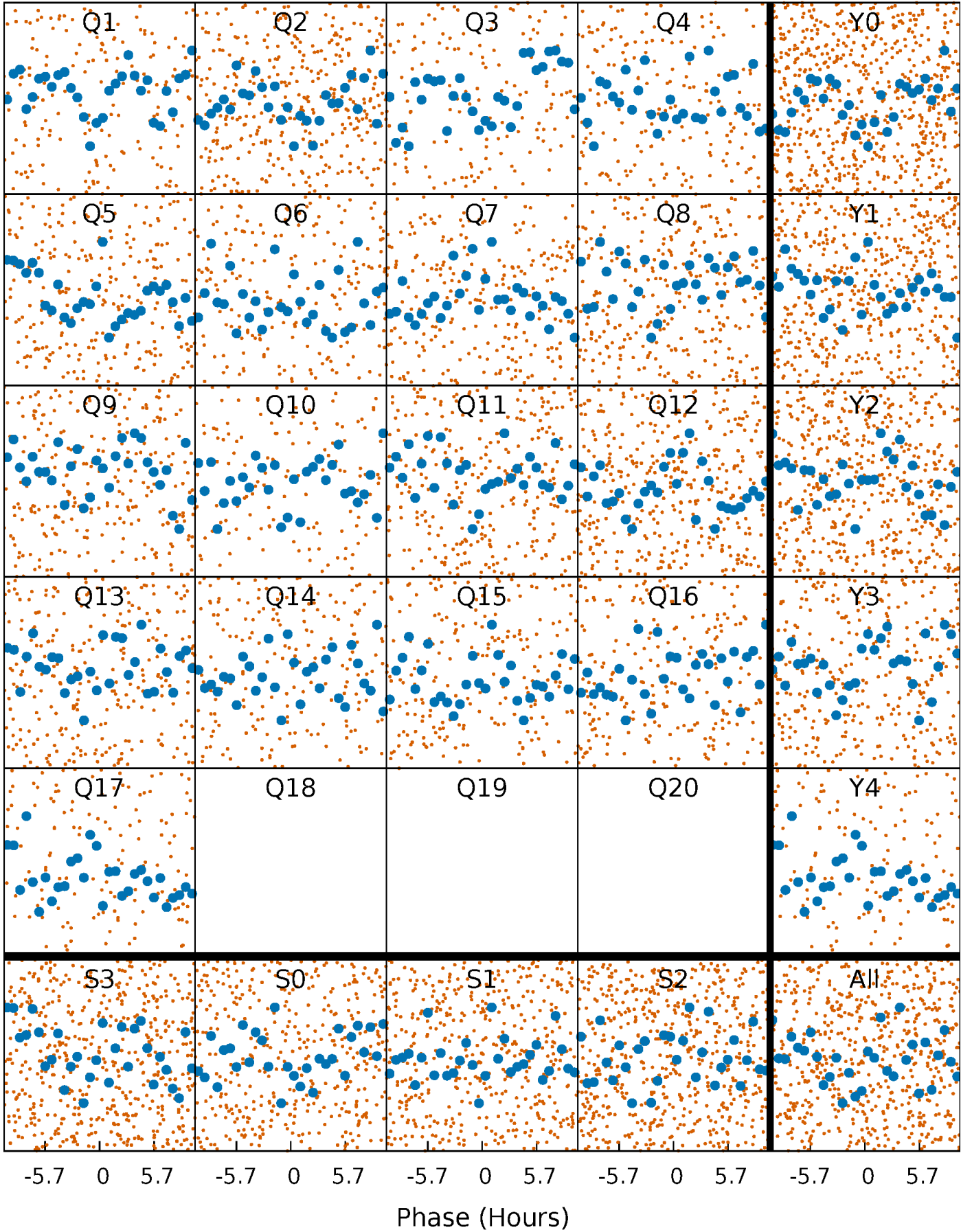


# Non-Whitened Vs. Whitened Light Curve



# PDC Quarter-Phased Transit Curves

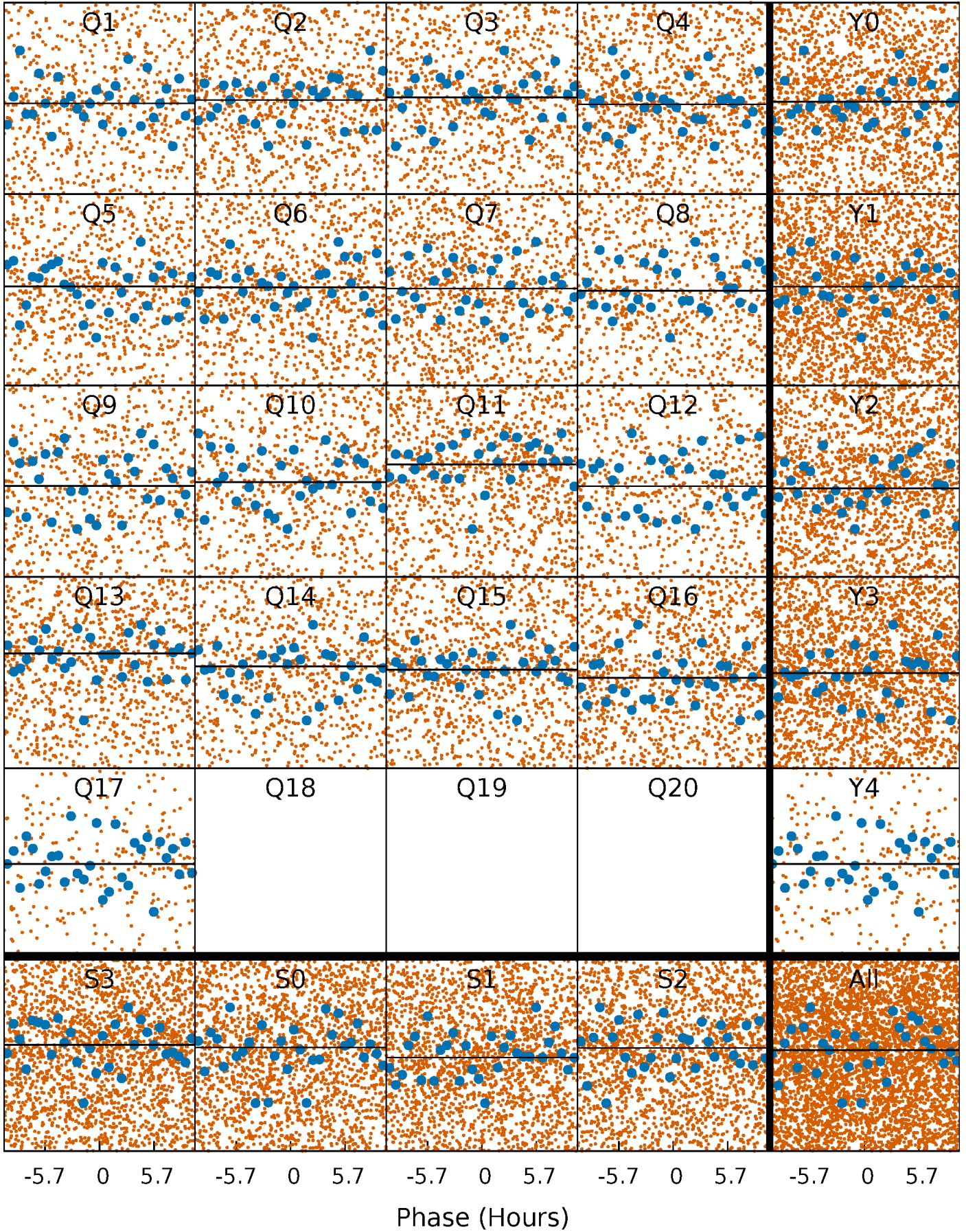
TCE 006293266-03   P= 1.415829 Days    $T_0=132.202329$  (BKJD)





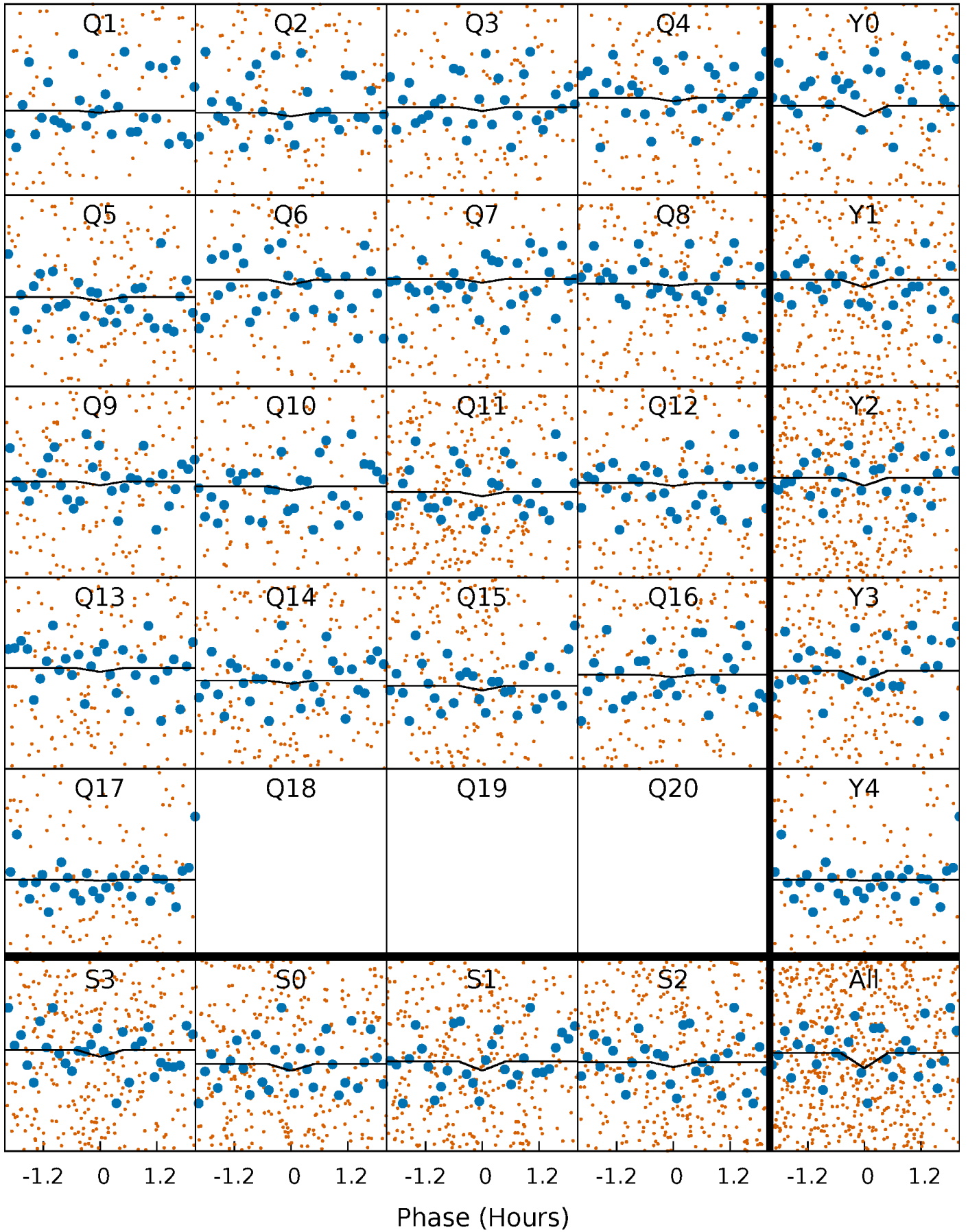
# DV Quarter-Phased Transit Curves

TCE 006293266-03 P= 1.415829 Days  $T_0=132.202329$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

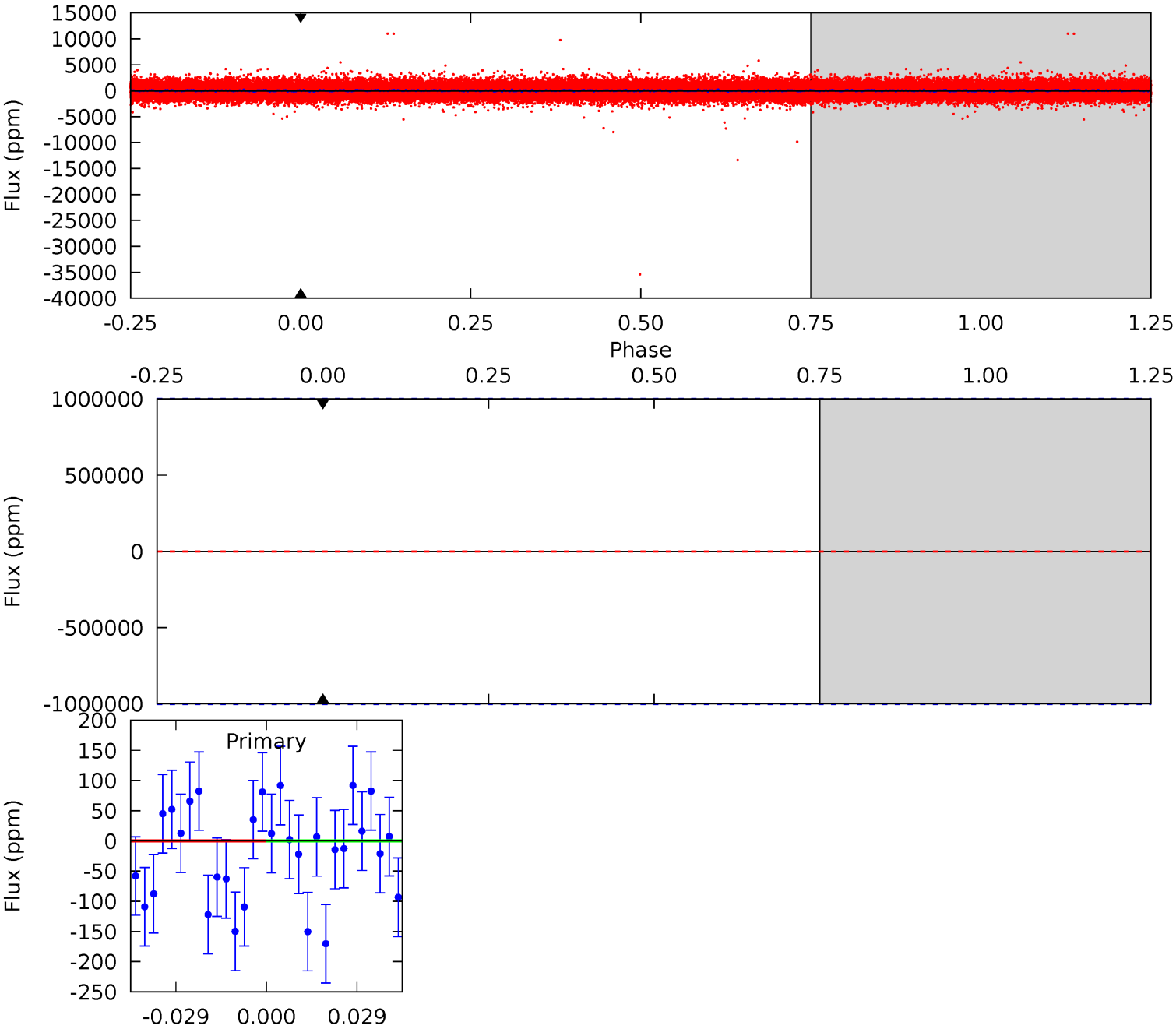
TCE 006293266-03   P= 1.415829 Days    $T_0=131.991218$  (BKJD)



# DV Model-Shift Uniqueness Test

006293266-03, P = 1.415829 Days, E = 130.786500 Days

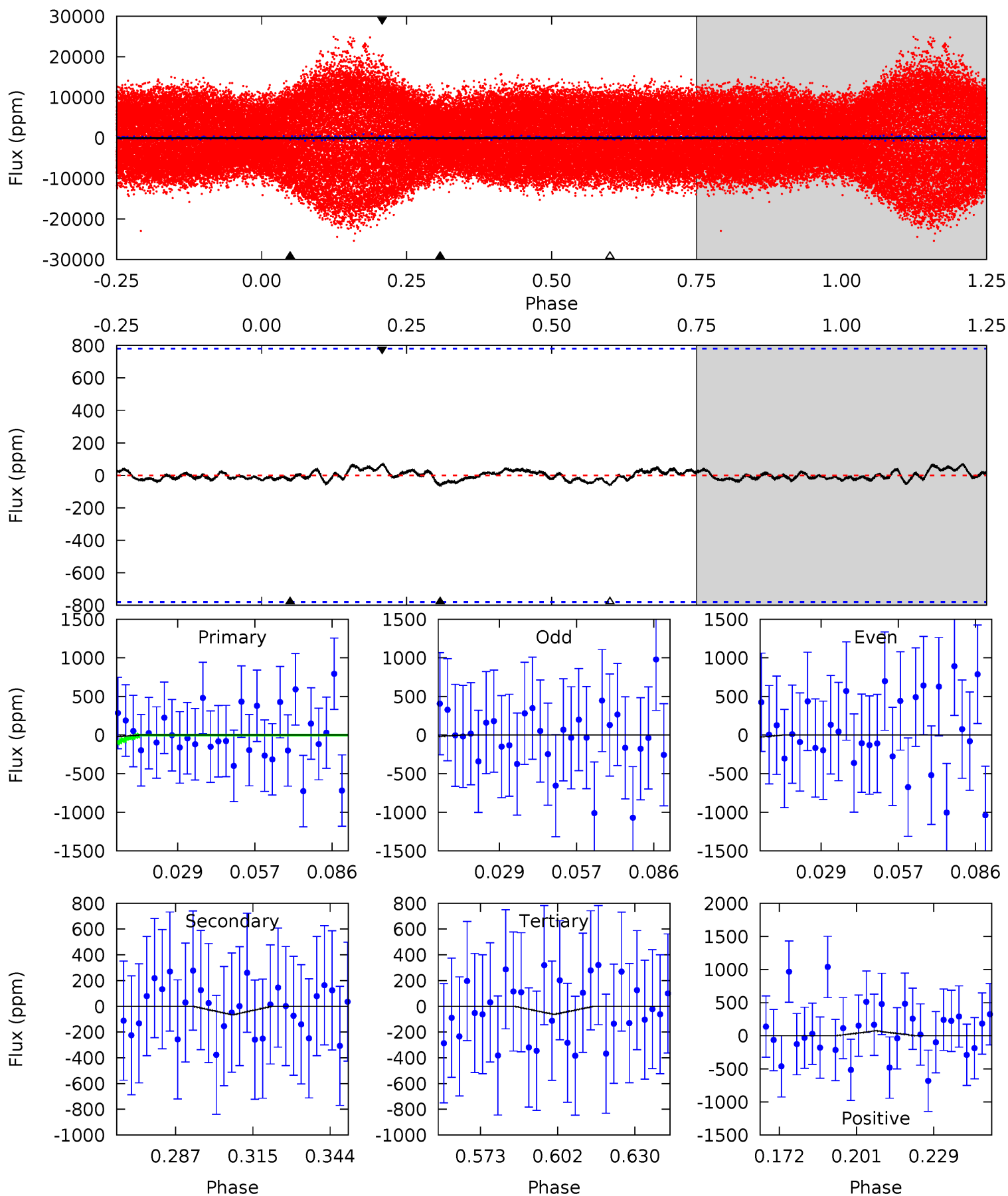
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

006293266-03, P = 1.415829 Days, E = 130.575389 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
0.22	0.40	0.39	0.45	4.82	2.19	0.16	-0.16	-0.23	0.02	-0.05	0.04	-0.13	0.53	0.25



### Stellar Parameters For KIC 006293266

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$8228^{+65}_{-90}$	$4.043^{+0.138}_{-0.092}$	$-0.200^{+0.050}_{-0.200}$	$2.108^{+0.266}_{-0.398}$	$1.790^{+0.057}_{-0.199}$	$0.269^{+0.195}_{-0.076}$
	+1%/-1%	+3%/-2%	+25%/-100%	+13%/-19%	+3%/-11%	+73%/-28%
Source	SPE68	SPE68	SPE68	DSEP		

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

### Secondary Eclipse Parameters for KIC 006293266-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$0 \pm 1000000$	$16.30^{+17.82}_{-11.59}$	$4240^{+154}_{-199}$	$3477^{+59776}_{-49860}$	$0.491^{+416.325}_{-286.635}$
Alt.	$-65 \pm 162$	$16.70^{+15.74}_{-11.83}$	$4251^{+156}_{-173}$	$-3614^{+8031}_{-553}$	$0.055^{+0.932}_{-0.291}$

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

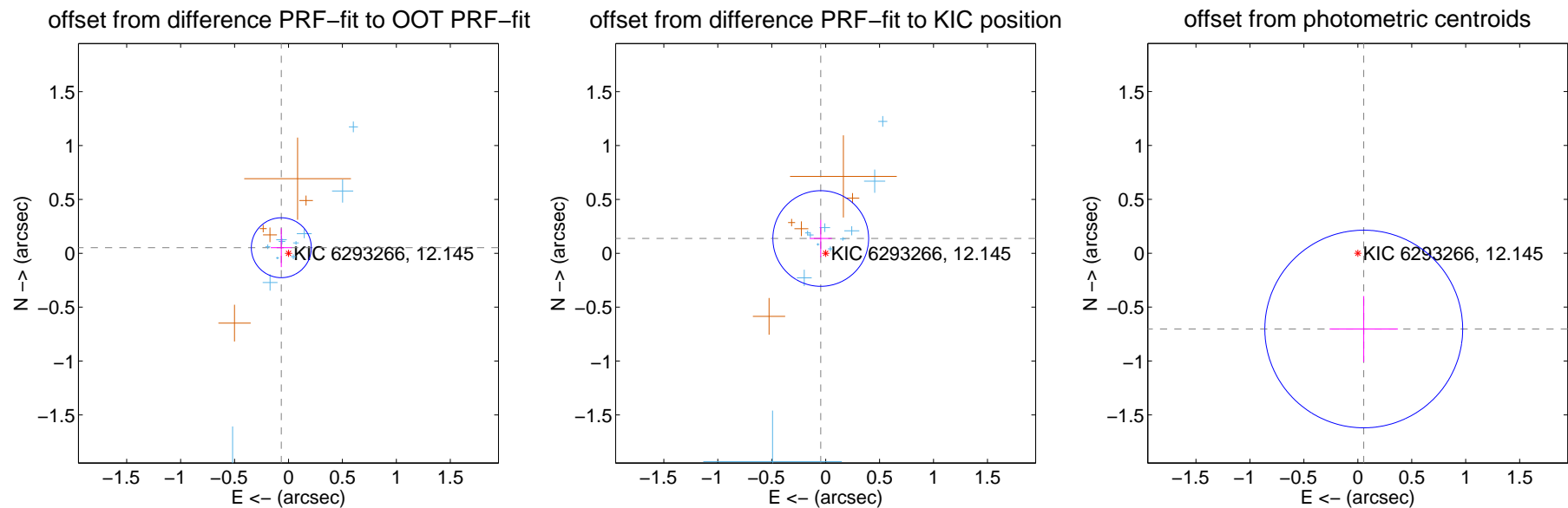
## DV Centroid Data

Supplemental centroid analysis for 006293266-03. Kepler magnitude: 12.14. Transit SNR -1.00

There are 11 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

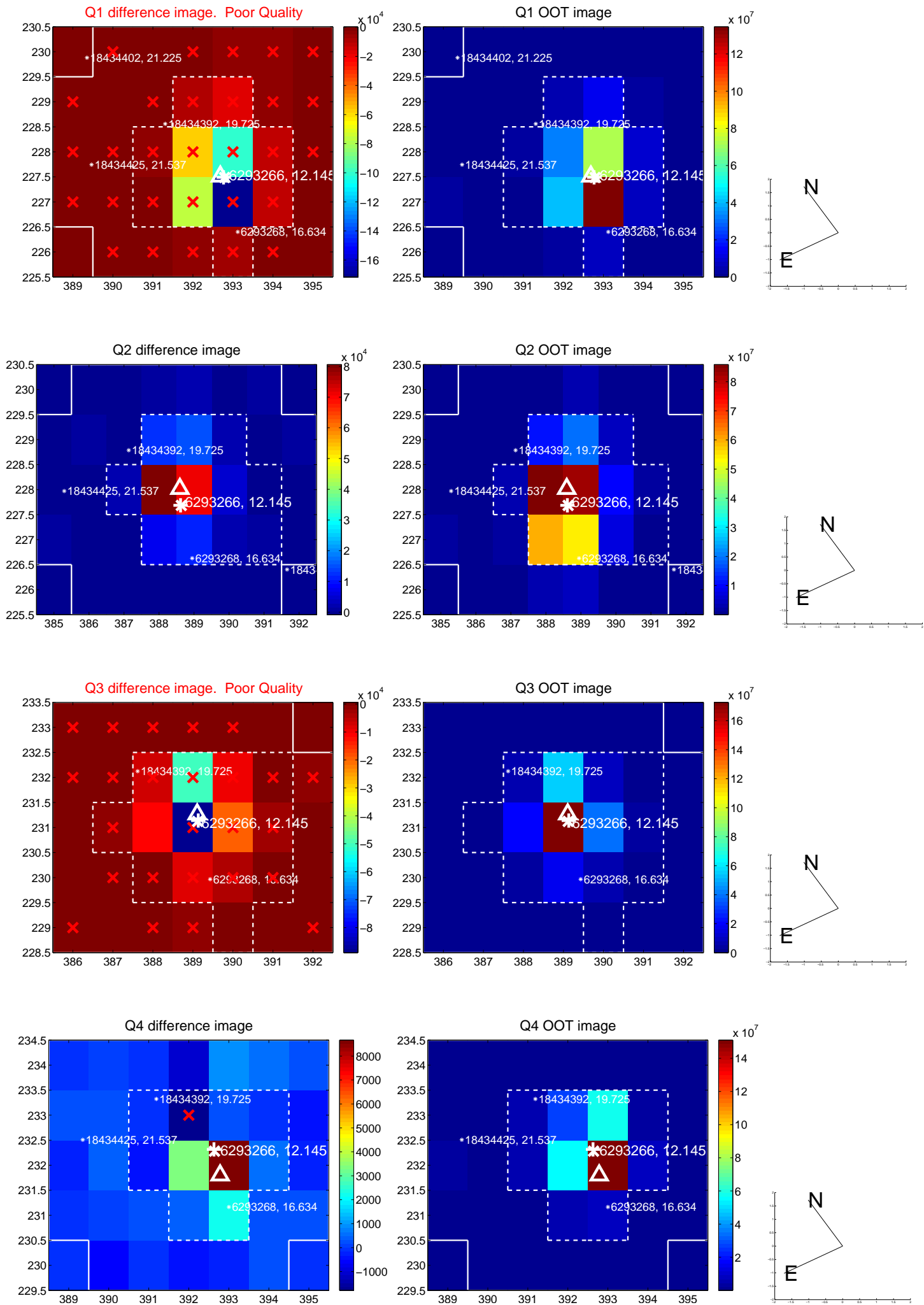
	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$0.084 \pm 0.093$	0.91	$0.067 \pm 0.097$	$0.052 \pm 0.180$
PRF-fit source offset from KIC position	$0.145 \pm 0.148$	0.98	$0.046 \pm 0.103$	$0.137 \pm 0.172$
photometric centroid source offset	$0.71 \pm 0.31$	2.31	$-0.06 \pm 0.32$	$-0.70 \pm 0.31$



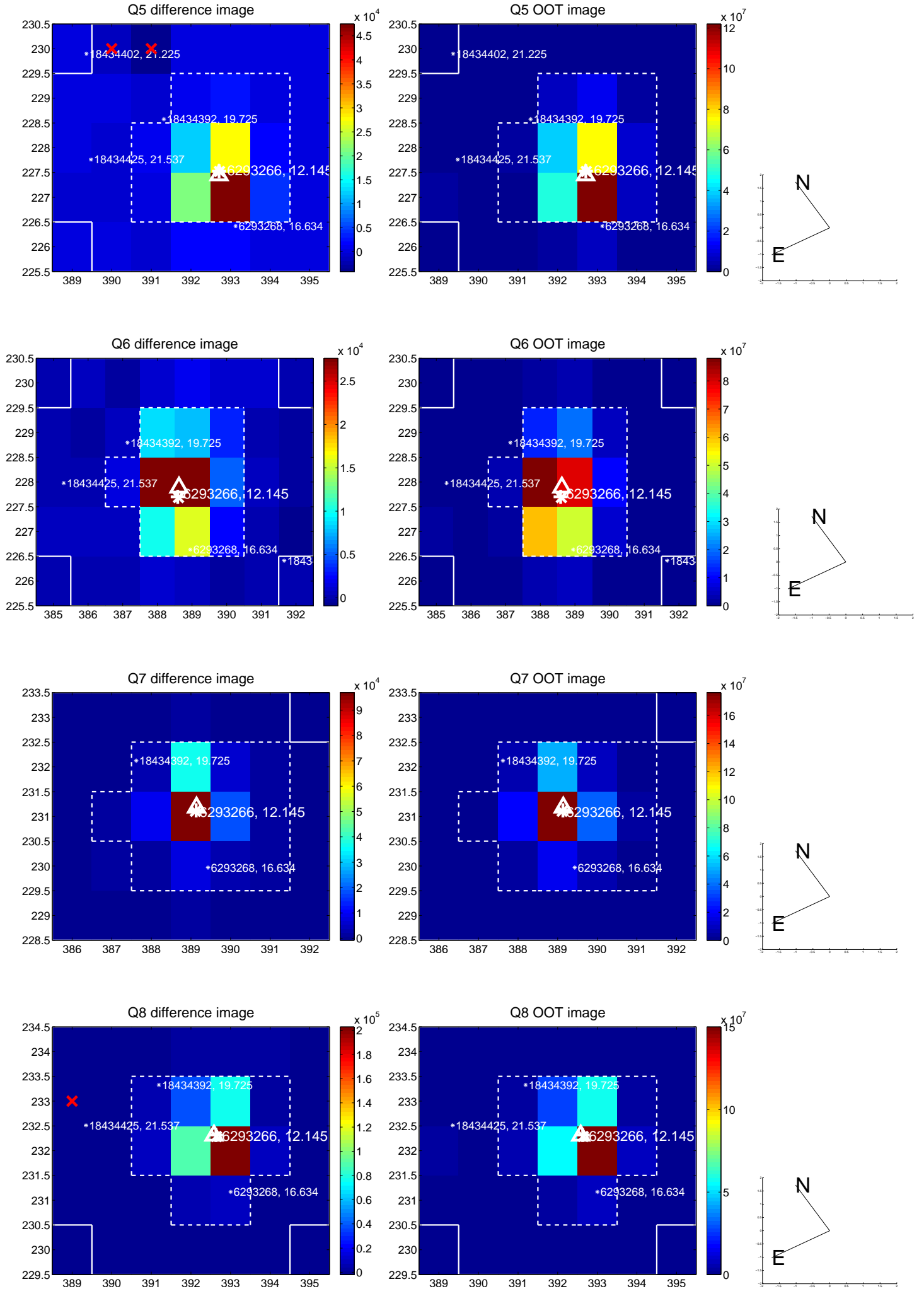
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . 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.

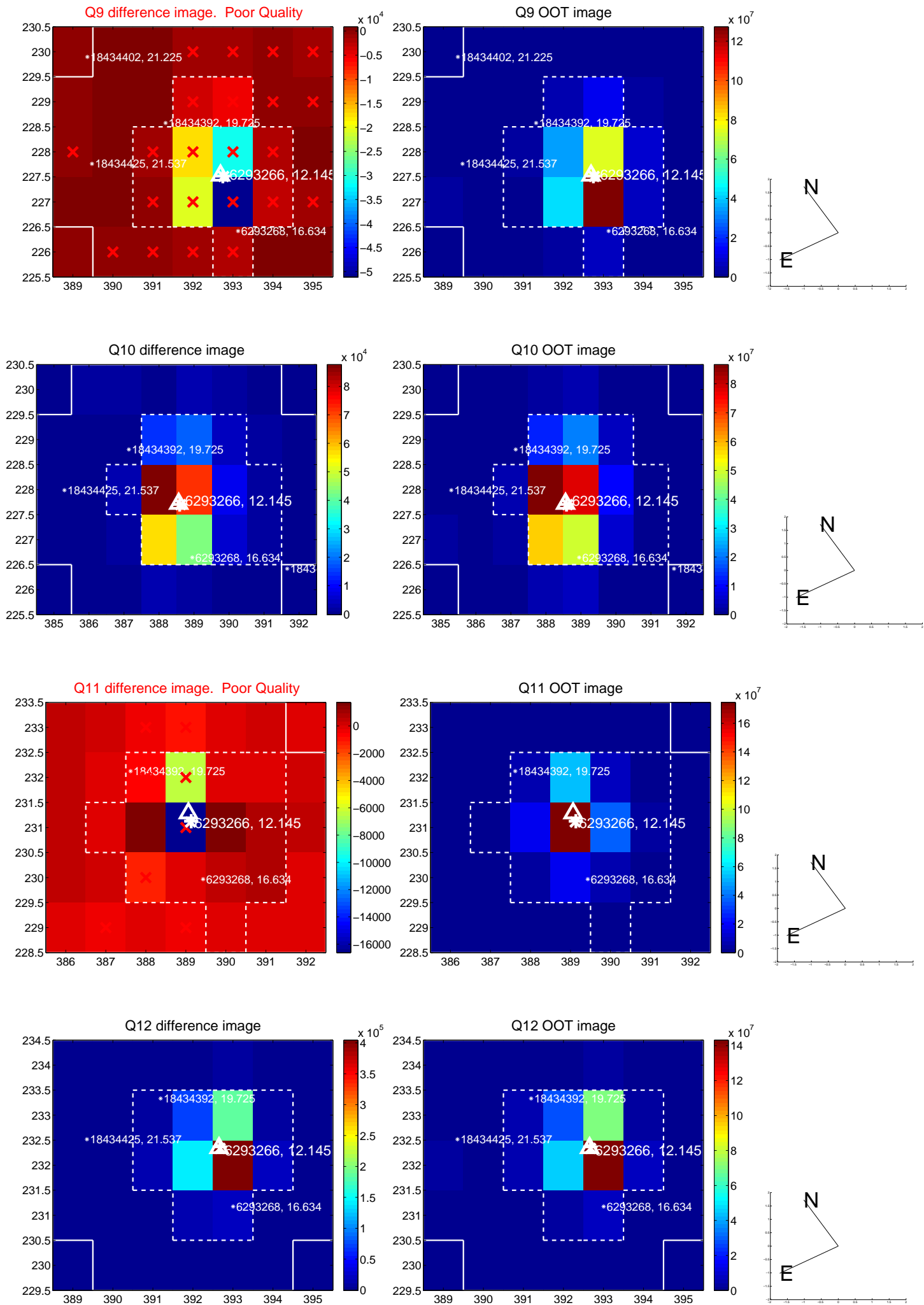


white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

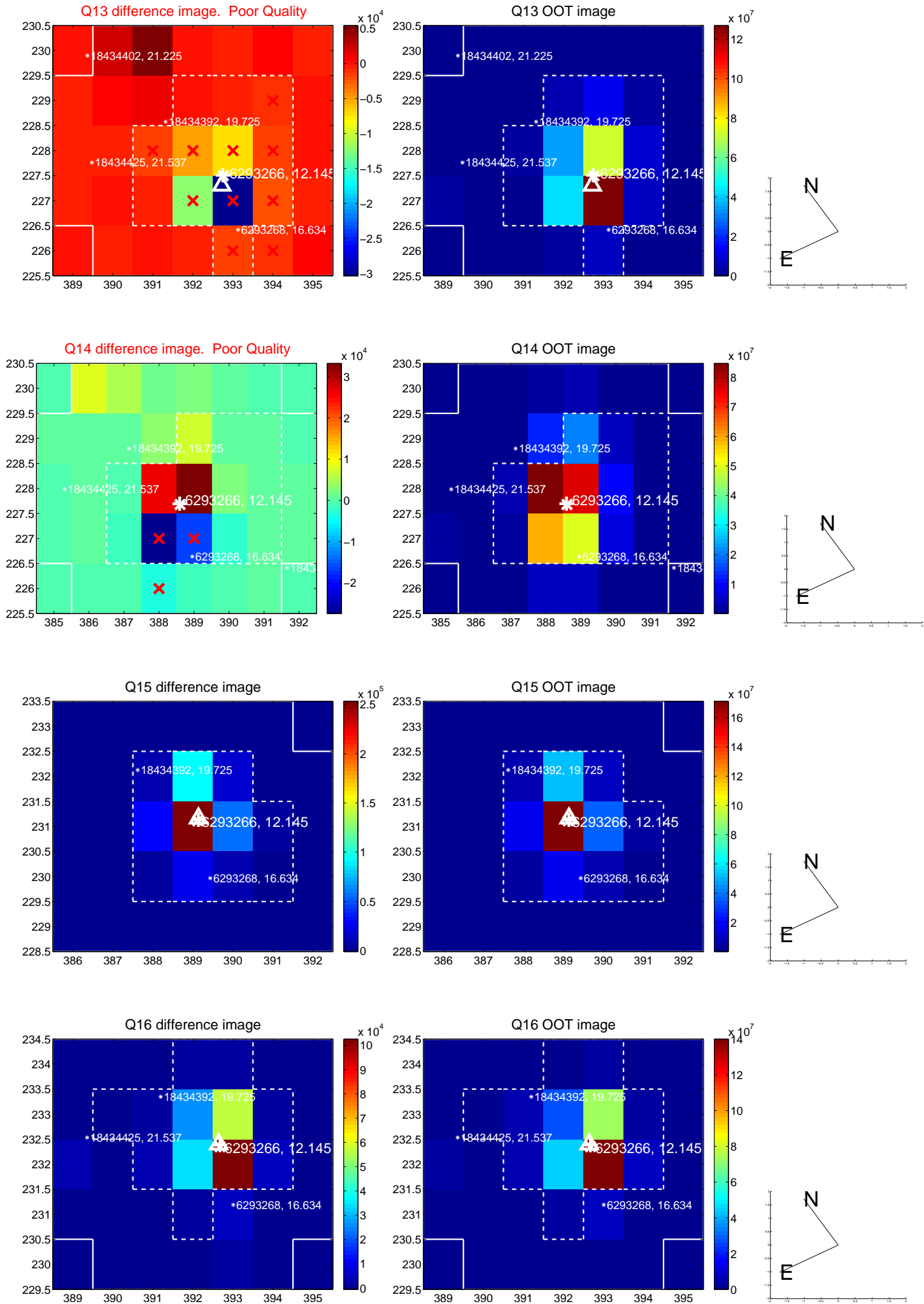




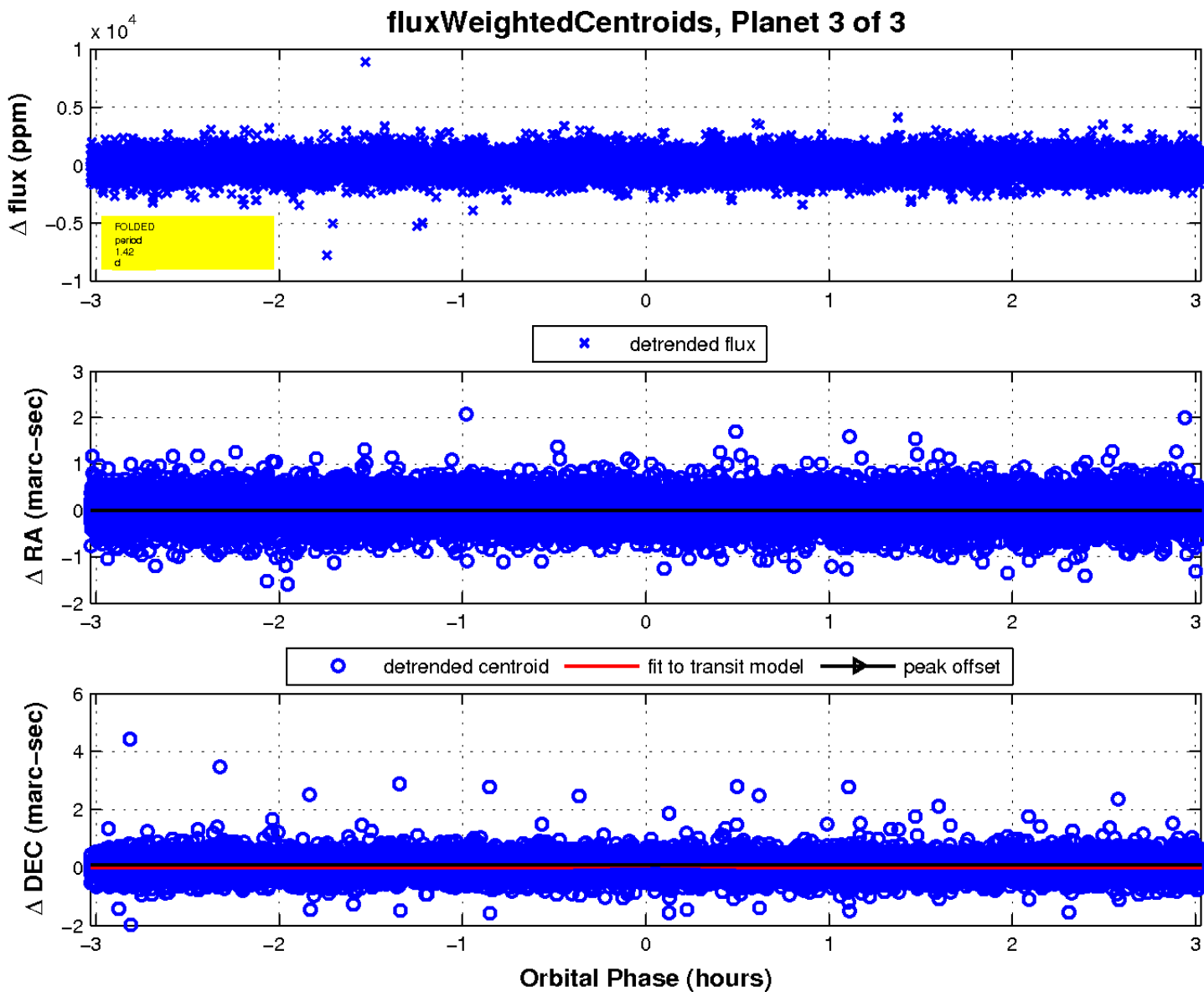
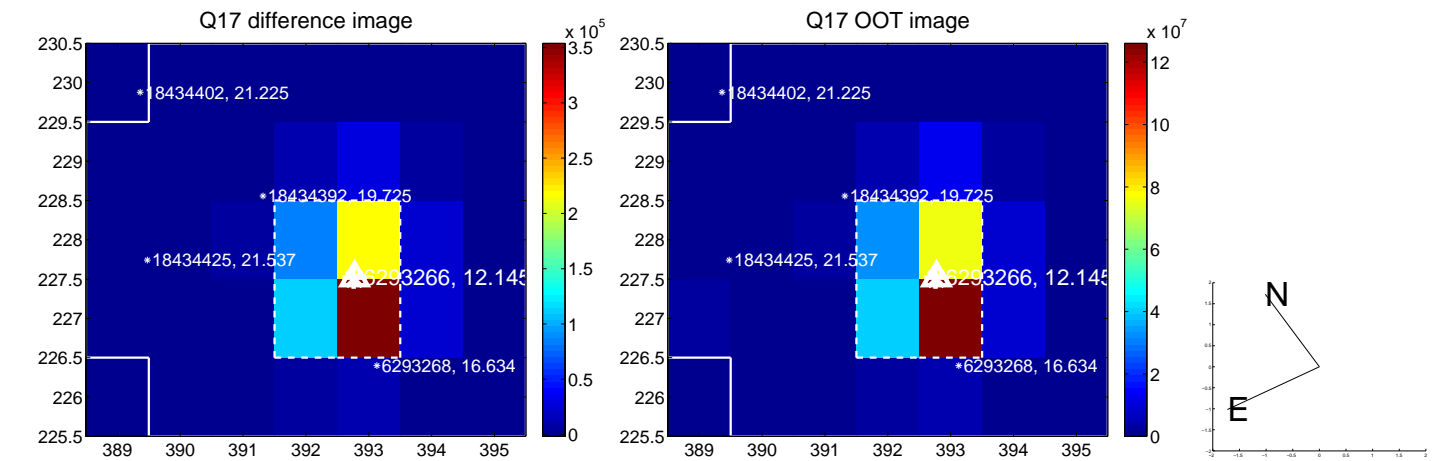
white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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



UKIRT Image

Declination

