

KIC 008460600

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})
008460600-01	OBS	1730.01	6.352091	134.207041	75472.7	3.915	3249.1	2326.1	0.69	5089	18.85	83.95
008460600-02	OBS	No	6.352088	137.382158	2654.4	3.811	115.2	116.3	0.69	5089	4.08	83.95
008460600-03	OBS	No	282.271700	410.915330	941.8	9.507	13.3	5.6	0.69	5089	2.26	0.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008460600-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—HAS_SEC_TCE—CENT_KIC_POS
008460600-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_KIC_POS
008460600-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_FEW_MEAS

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 for comment definitions.

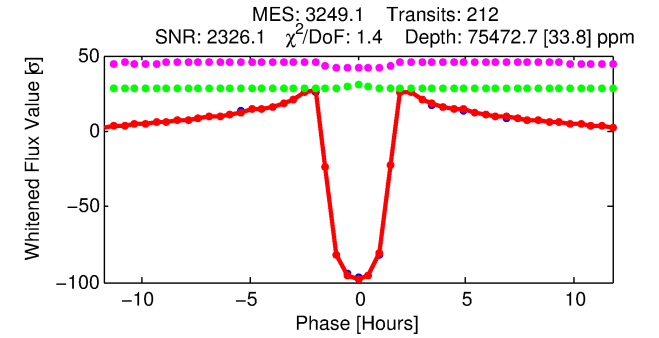
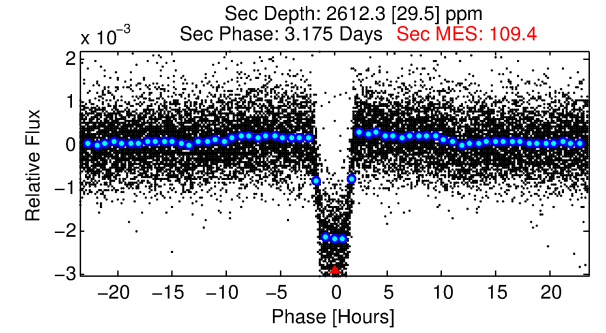
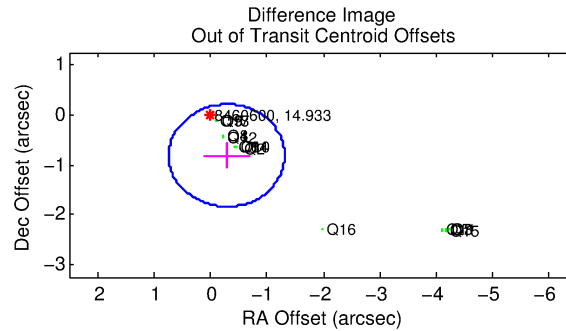
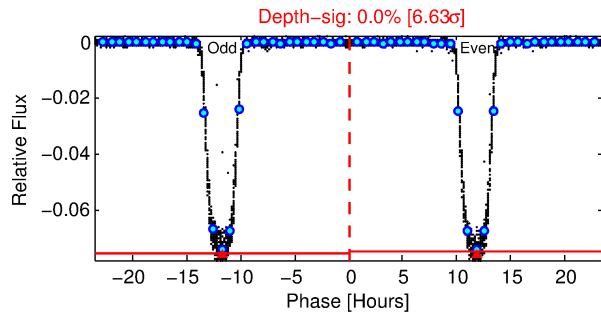
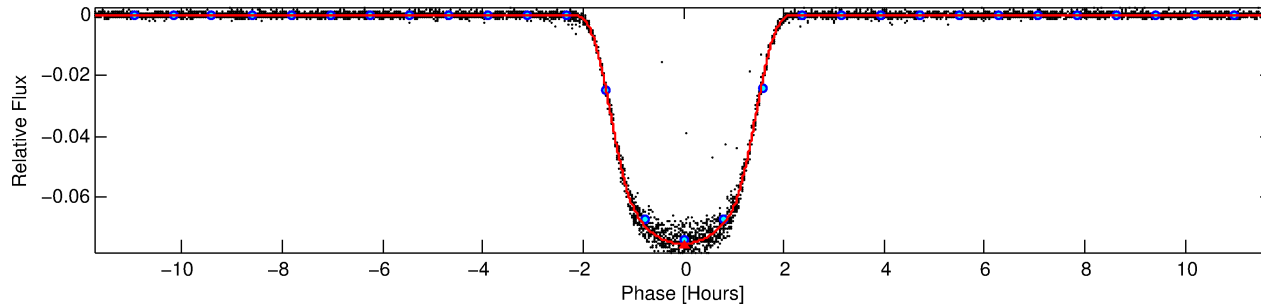
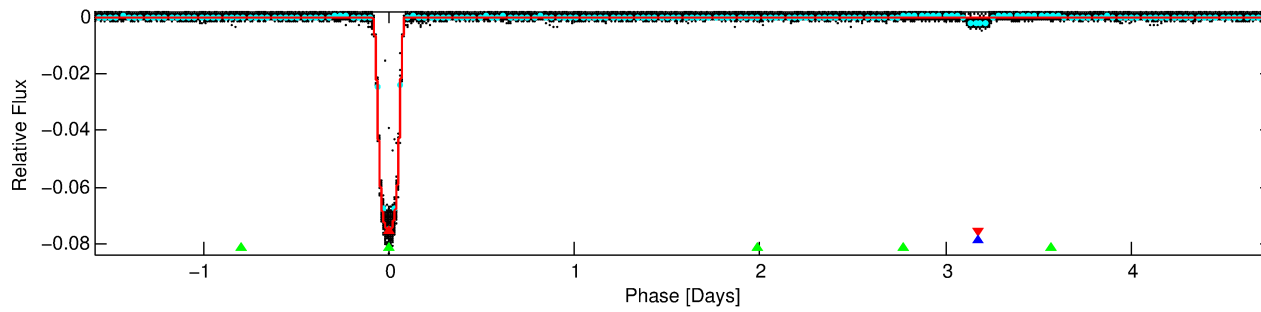
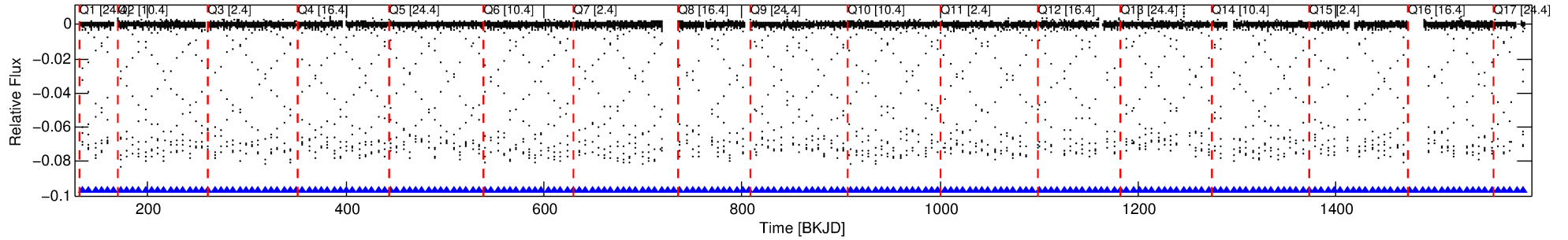
Ephemeris Match Information For 008460600-01

No Significant Match Found

DV One-Page Summary

KIC: 8460600 Candidate: 1 of 3 Period: 6.352 d
KOI: K01730.01 Corr: 0.996

Kp: 14.93 R*: 0.69 Rs Teff: 5089.0 K Logg: 4.58 Fe/H: -0.520



DV Fit Results:

Period = 6.35209 [0.00000] d
Epoch = 134.2070 [0.0000] BKJD
Rp/R* = 0.2493 [0.0001]
a/R* = 15.19 [0.02]
b = 0.25 [0.01]
Seff = 83.95 [14.97]
Teff = 772 [34] K
Rp = 18.85 [1.99] Re
a = 0.0586 [0.0052] AU
Ag = 13.90 [1.83] [7.06σ]
Teffp = 2304 [70] K [19.64σ]

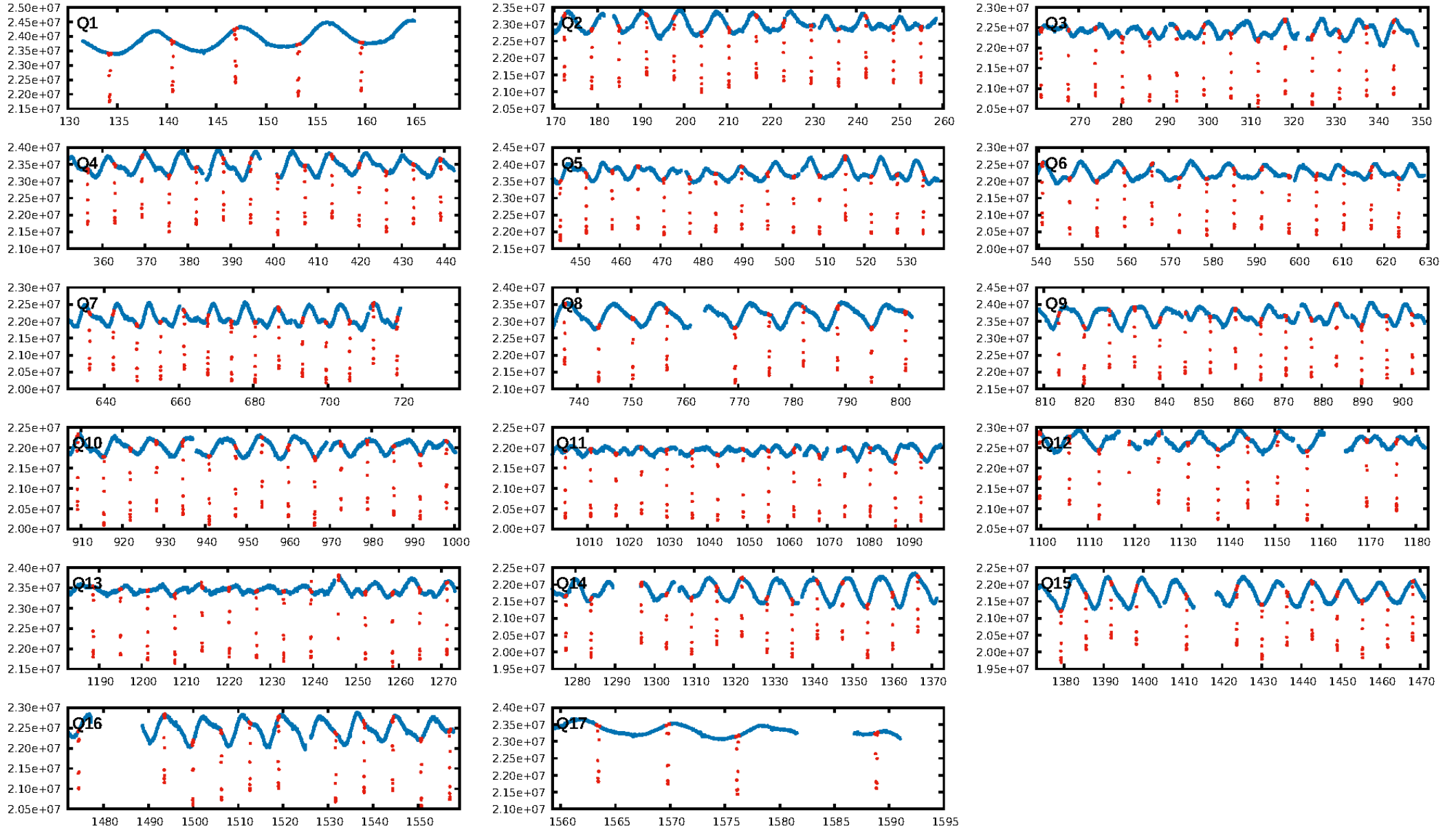
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [644.08σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [203/203]
GhostDiagnostic-chr: 3.163
Centroid-sig: 0.0%
Centroid-so: 1.636 arcsec [653.39σ]
OotOffset-rm: 0.866 arcsec [2.53σ]
KicOffset-rm: 0.127 arcsec [1.84σ]
OotOffset-st: 4/4/4/5 [17]
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DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

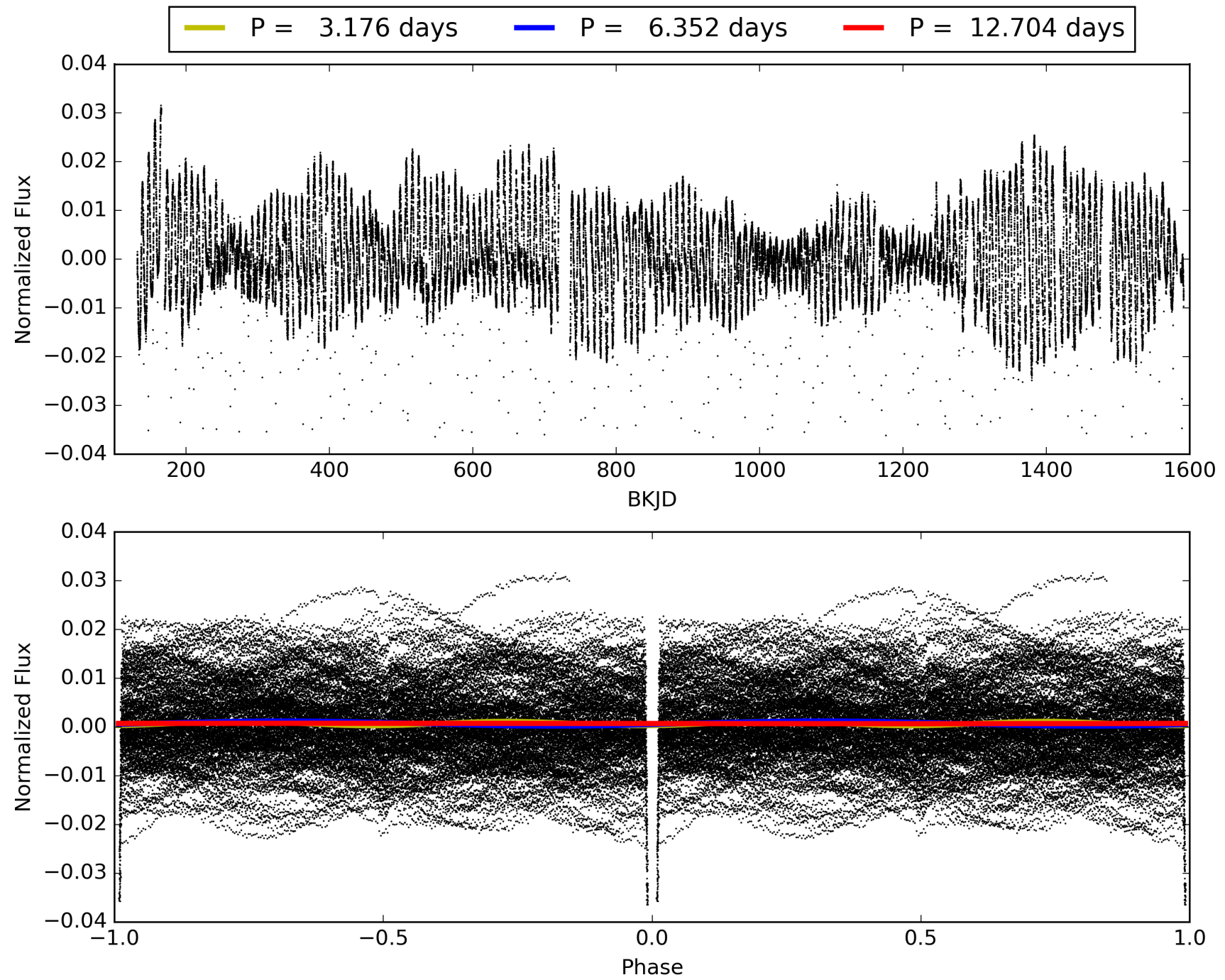
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008460600-01, PDC Light Curves

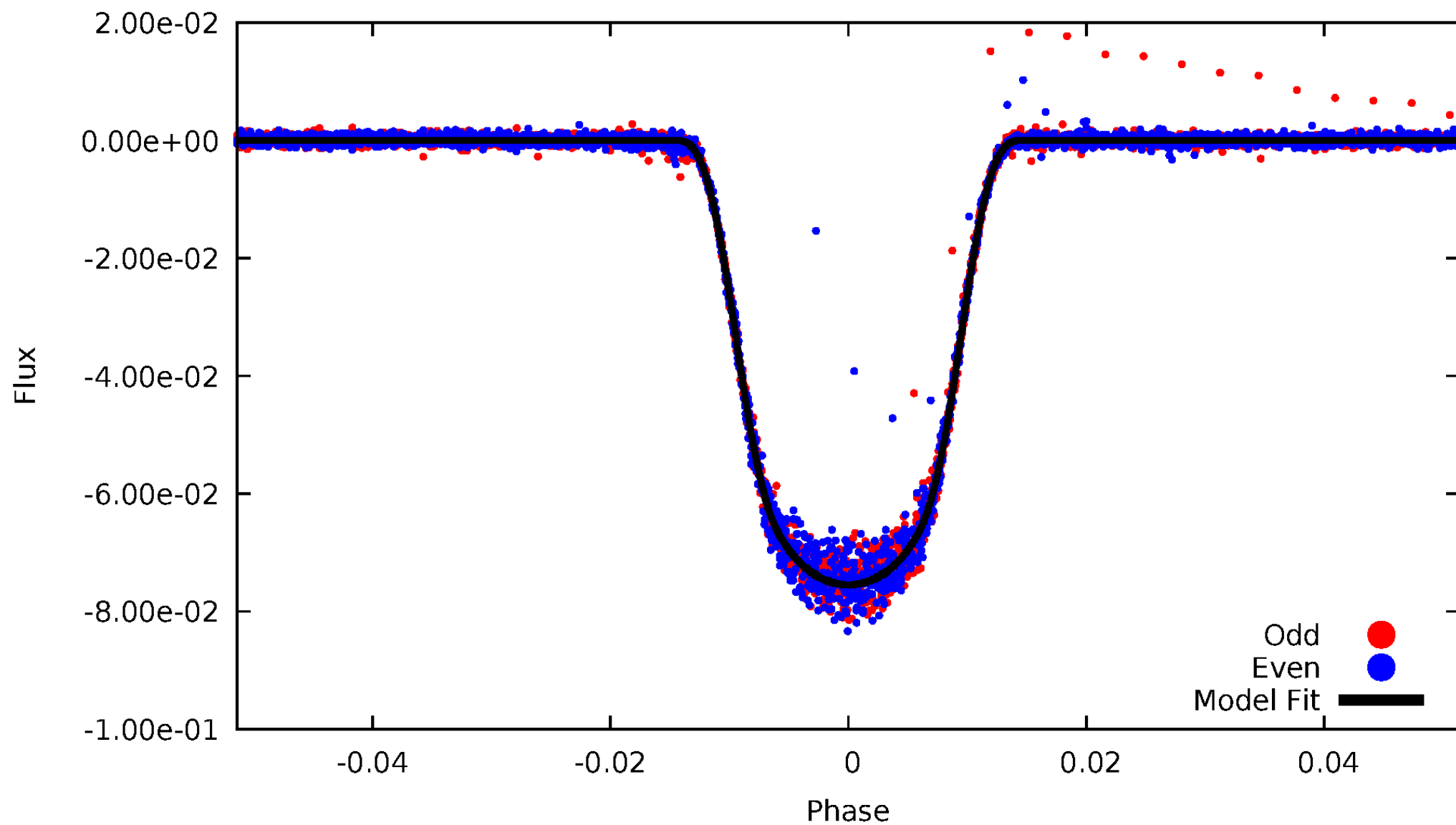


TCE 008460600-01



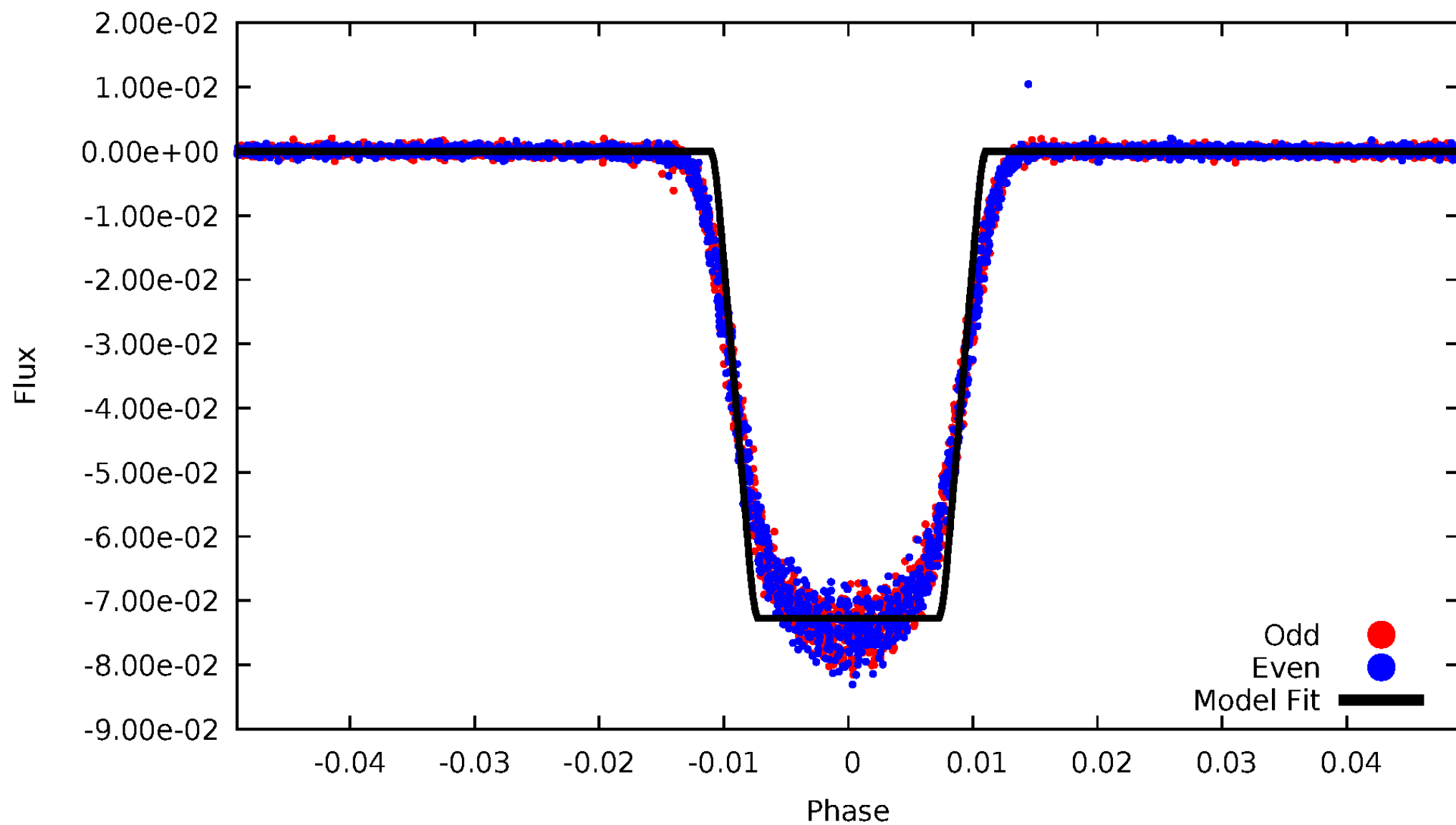
DV Odd/Even

TCE 008460600-01



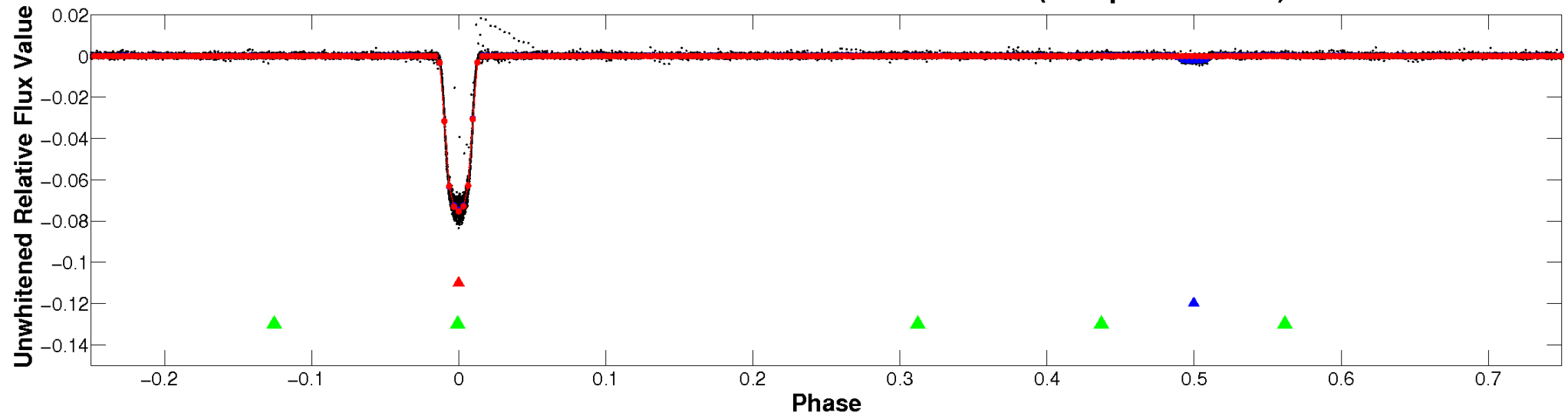
ALT Odd/Even

TCE 008460600-01

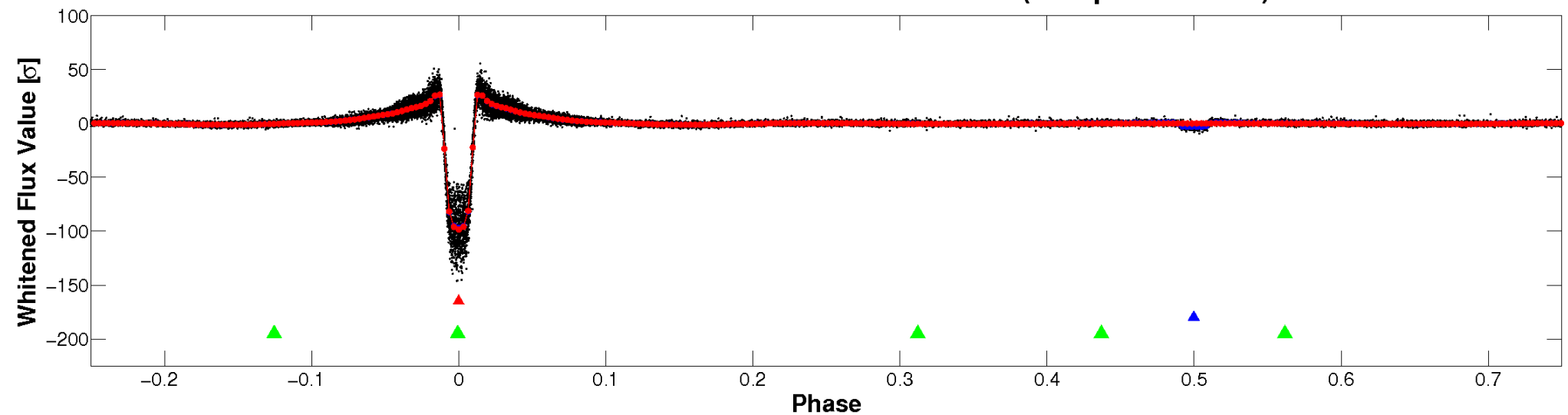


Non-Whitened Vs. Whitened Light Curve

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

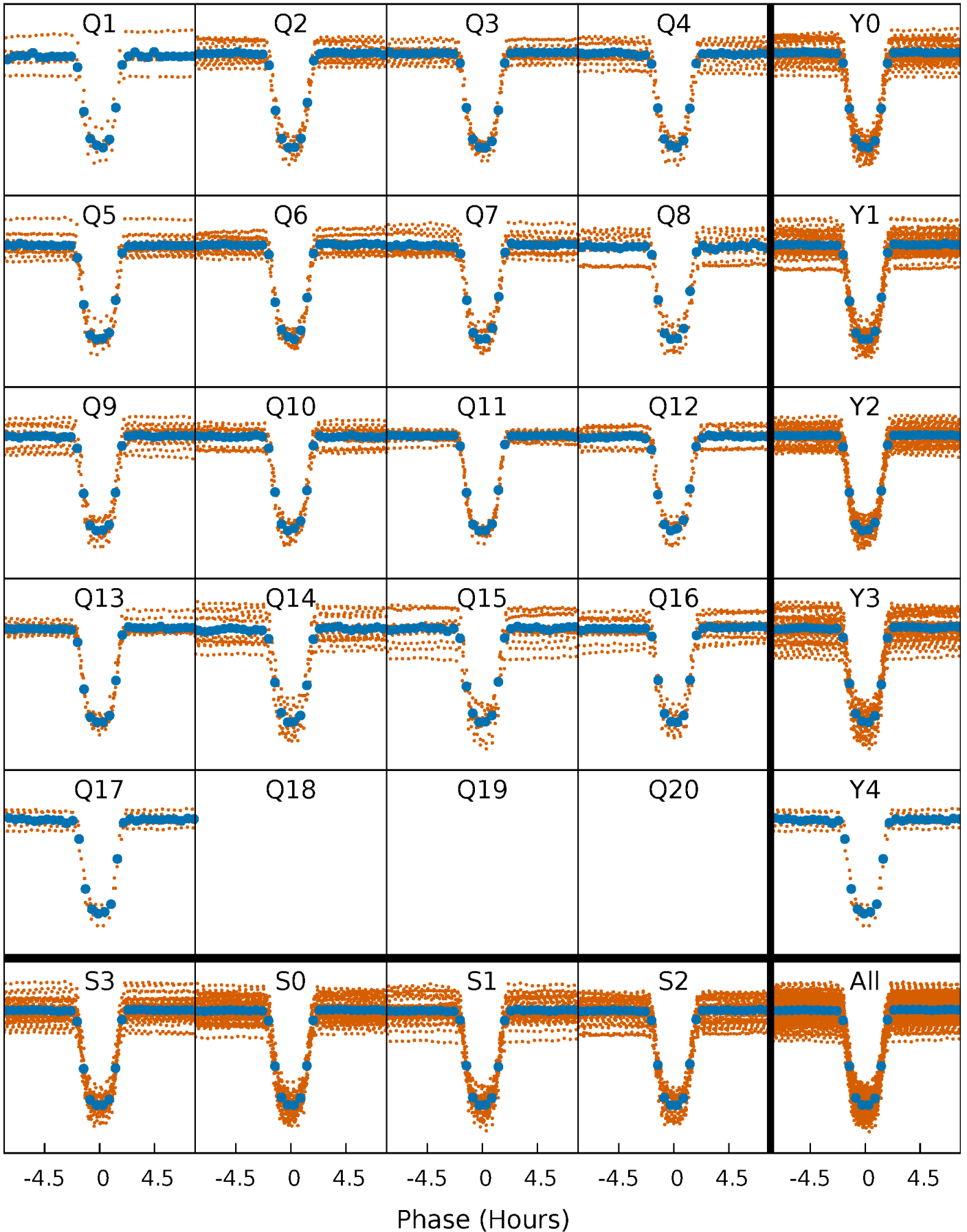


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



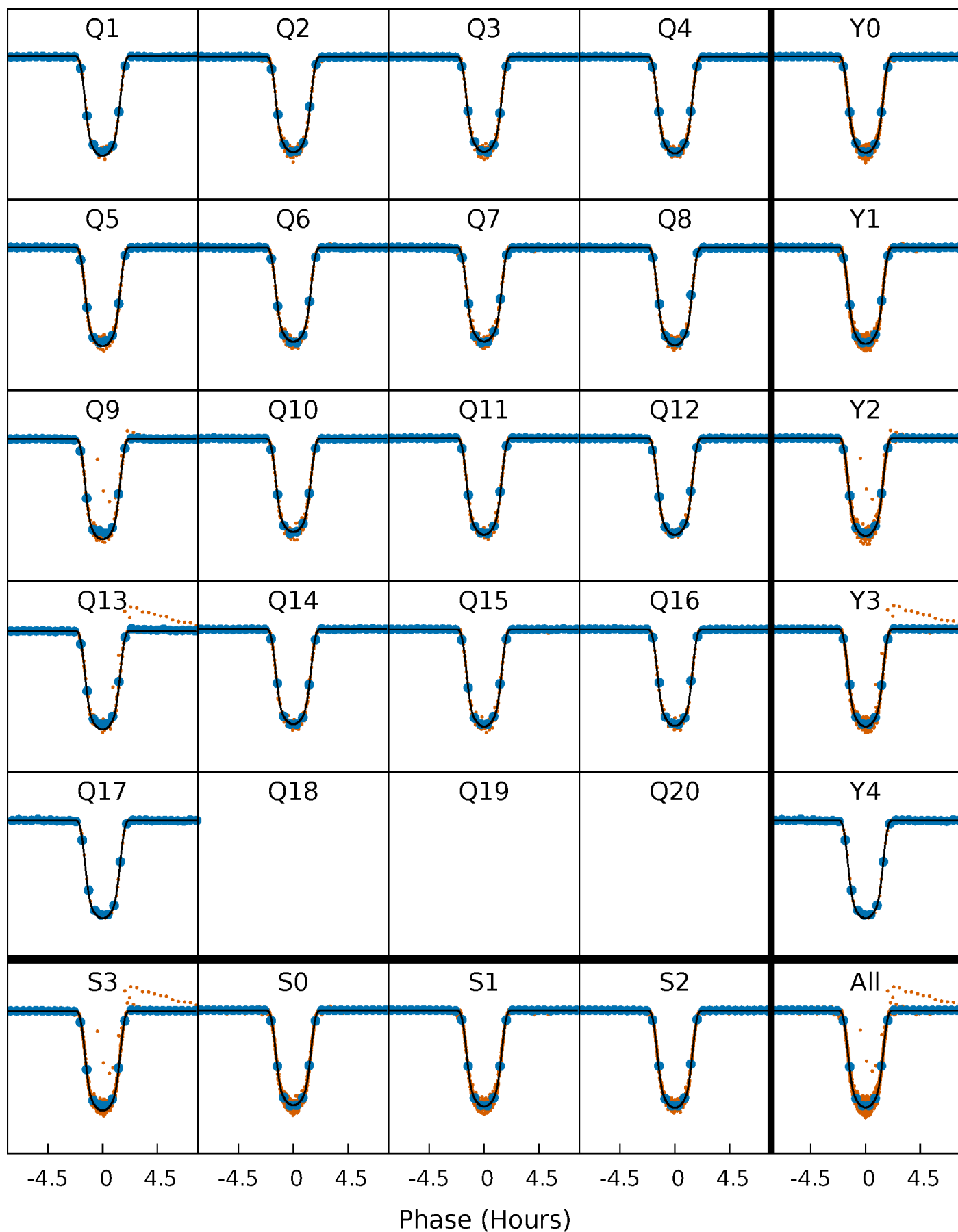
PDC Quarter-Phased Transit Curves

TCE 008460600-01 P= 6.352091 Days $T_0=134.207041$ (BKJD)



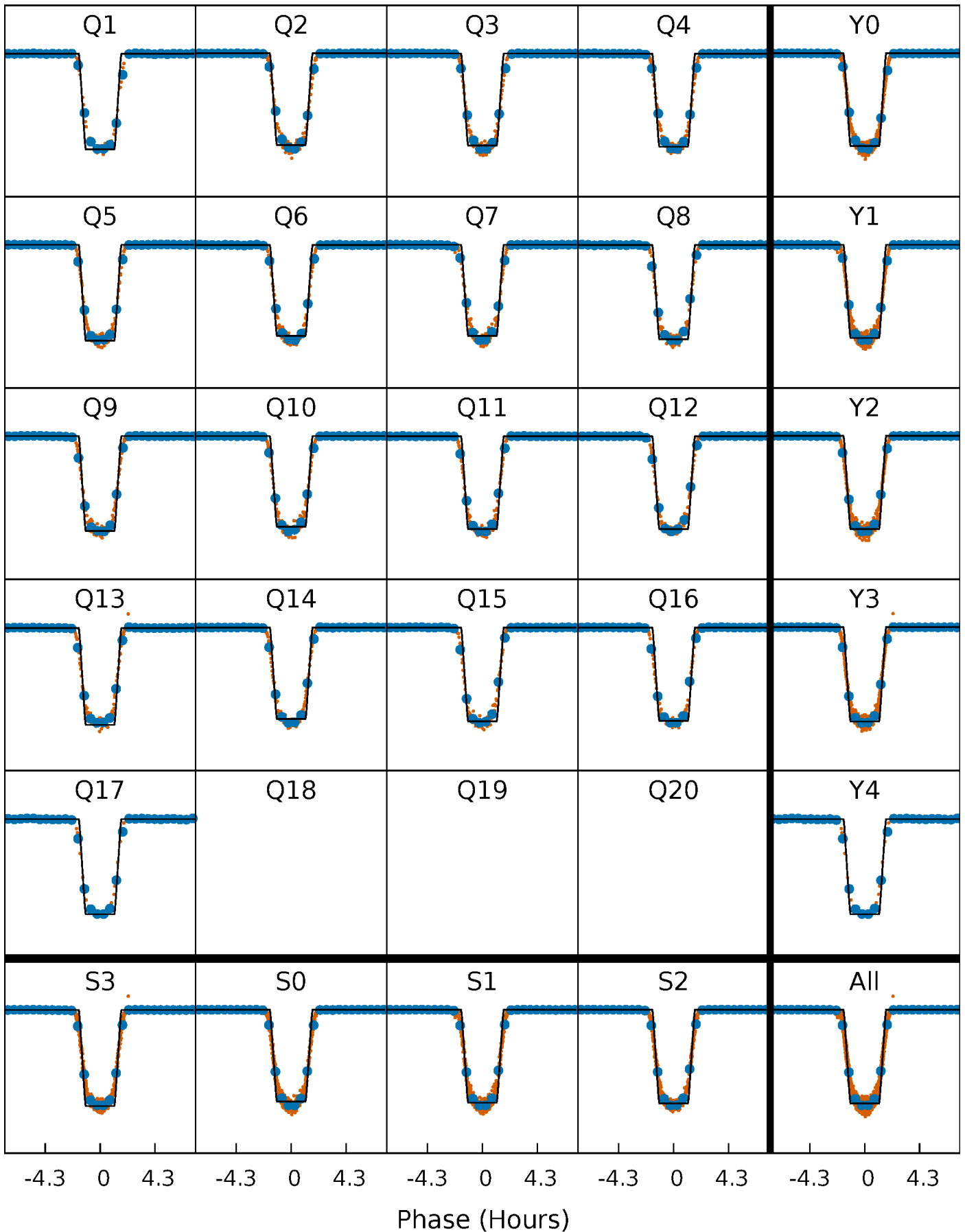
DV Quarter-Phased Transit Curves

TCE 008460600-01 P= 6.352091 Days $T_0=134.207041$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

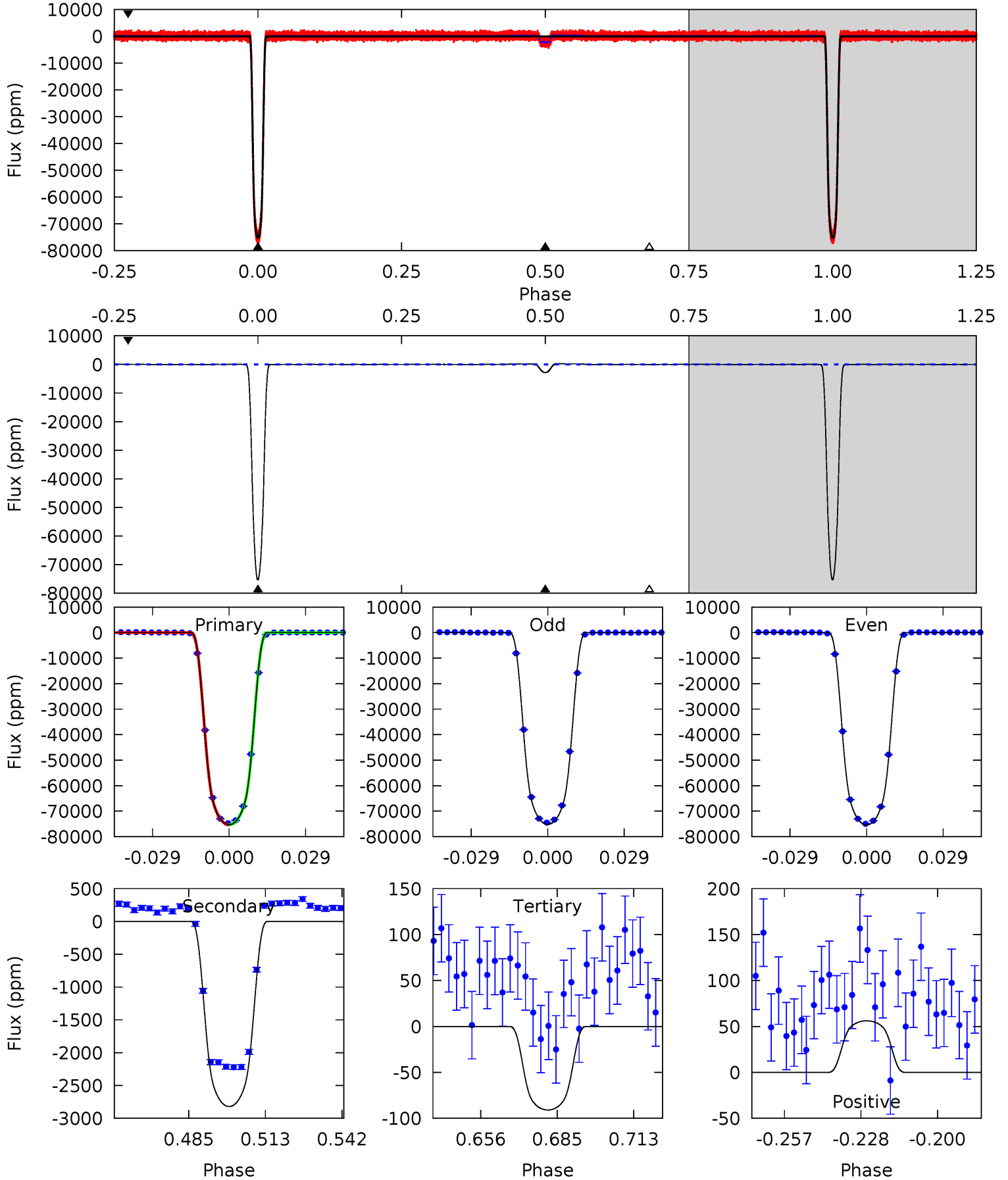
TCE 008460600-01 P= 6.352114 Days $T_0=134.204467$ (BKJD)



DV Model-Shift Uniqueness Test

008460600-01, P = 6.352091 Days, E = 127.854950 Days

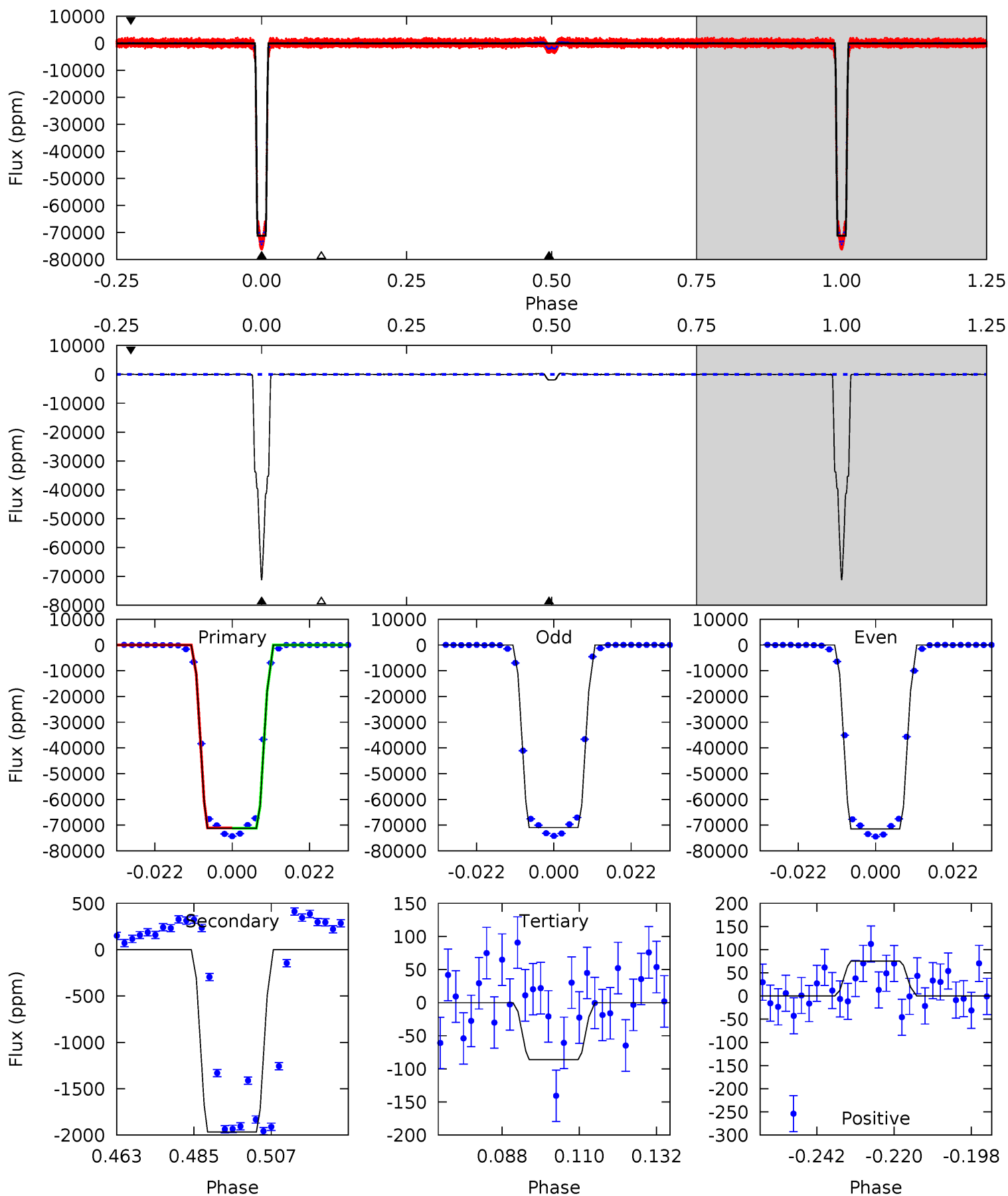
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5103	191.1	6.17	3.80	4.82	2.19	3.92	5097	5100	185.0	187.3	6.09	1.00	0.00	0



Alt Model-Shift Uniqueness Test

008460600-01, P = 6.352114 Days, E = 127.852353 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3284	90.7	3.97	3.47	4.87	2.29	2.00	3281	3281	86.7	87.2	11.1	1.00	0.01	1.77



Stellar Parameters For KIC 008460600

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5089^{+154}_{-138}	$4.580^{+0.072}_{-0.048}$	$-0.520^{+0.300}_{-0.300}$	$0.693^{+0.073}_{-0.067}$	$0.666^{+0.087}_{-0.037}$	$2.818^{+0.888}_{-0.470}$
	+3%/-3%	+2%/-1%	+58%/-58%	+11%/-10%	+13%/-6%	+32%/-17%
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 008460600-01 / KOI 1730.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2821 ± 15	$18.84^{+1.14}_{-1.06}$	1074^{+42}_{-40}	2983^{+58}_{-55}	15^{+2}_{-1}
Alt.	-1966 ± 22	$20.38^{+1.18}_{-1.12}$	1074^{+41}_{-39}	2775^{+48}_{-48}	$9.087^{+0.873}_{-0.735}$

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

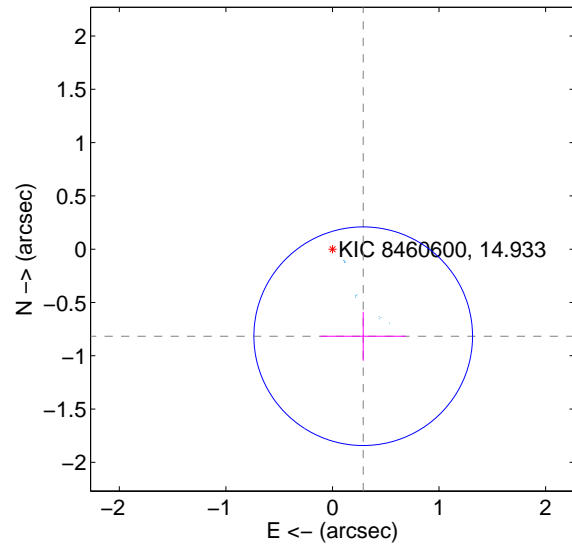
Supplemental centroid analysis for 008460600-01. Kepler magnitude: 14.93. Transit SNR 2326.06

There are 17 quarters with good PRF difference image offsets

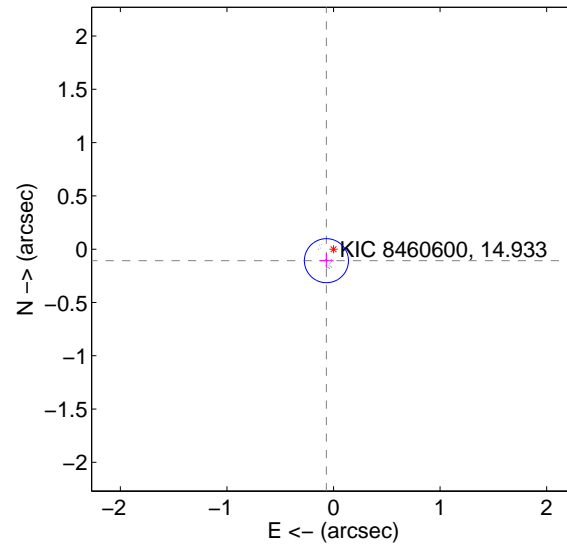
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.866 ± 0.342	2.53	-0.288 ± 0.401	-0.817 ± 0.230
PRF-fit source offset from KIC position	0.127 ± 0.069	1.84	0.067 ± 0.068	-0.108 ± 0.069
photometric centroid source offset	1.64 ± 0.00	653.39	1.62 ± 0.00	0.20 ± 0.00

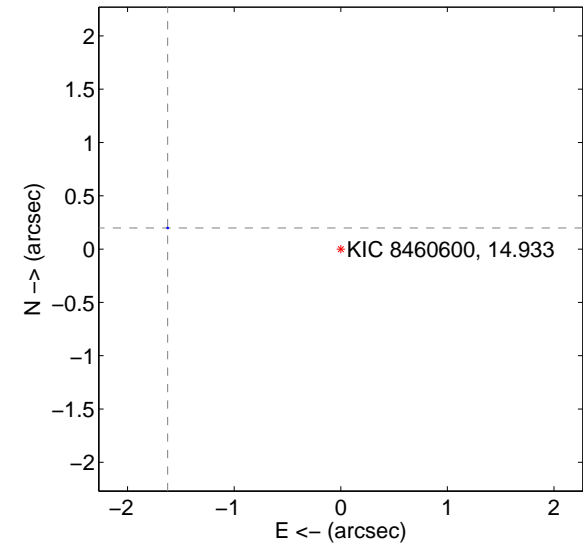
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

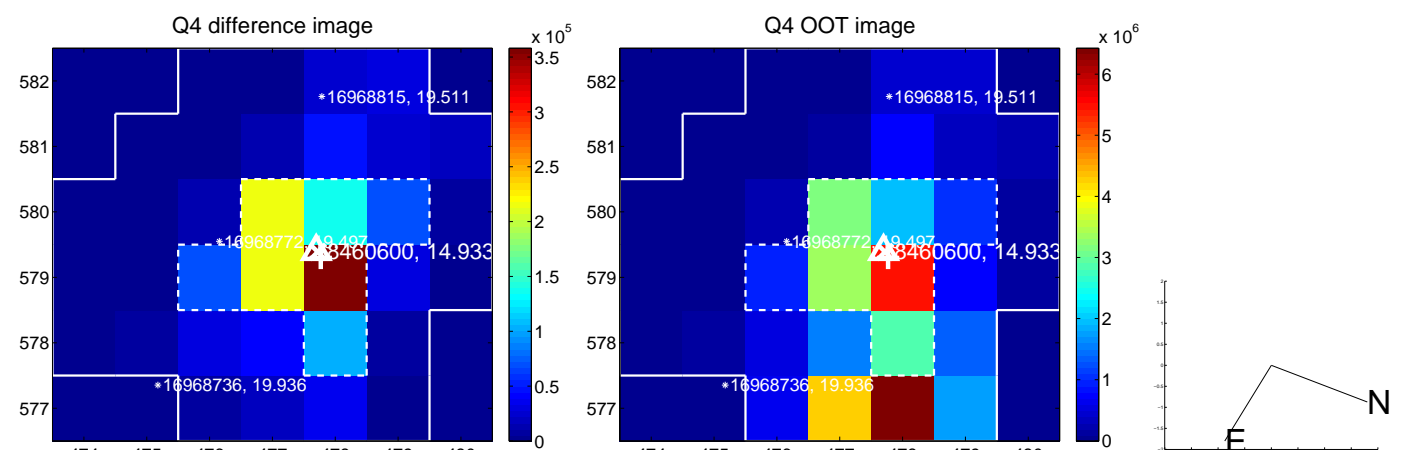
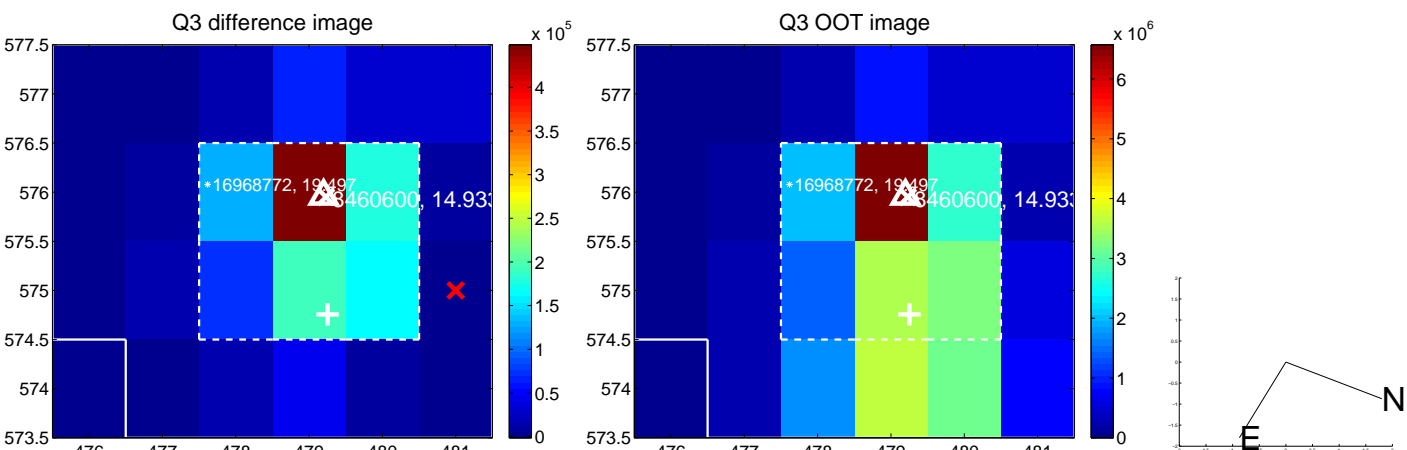
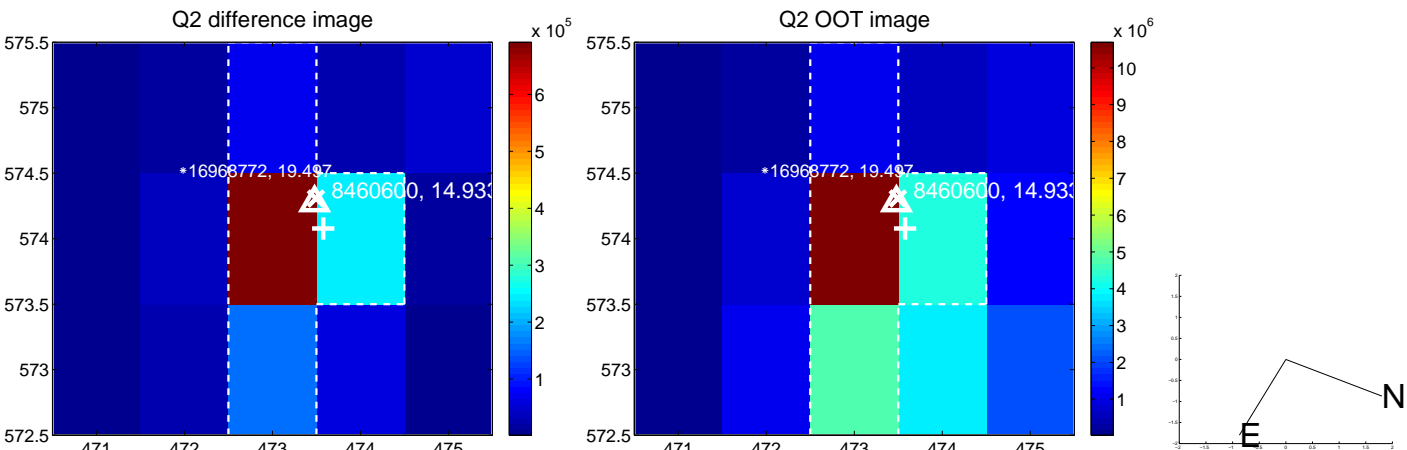
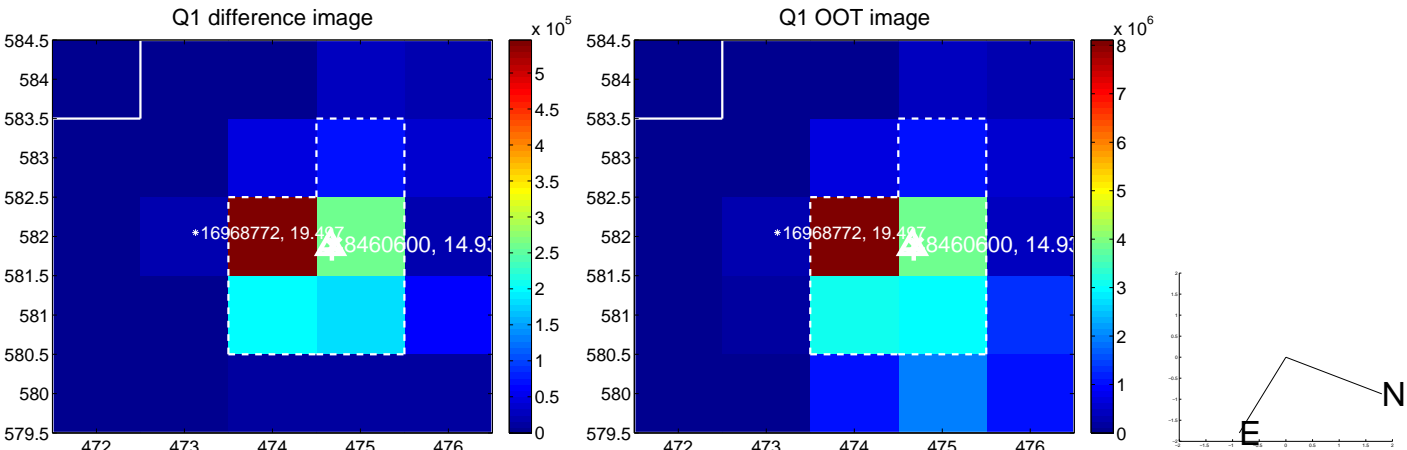


offset from photometric centroids

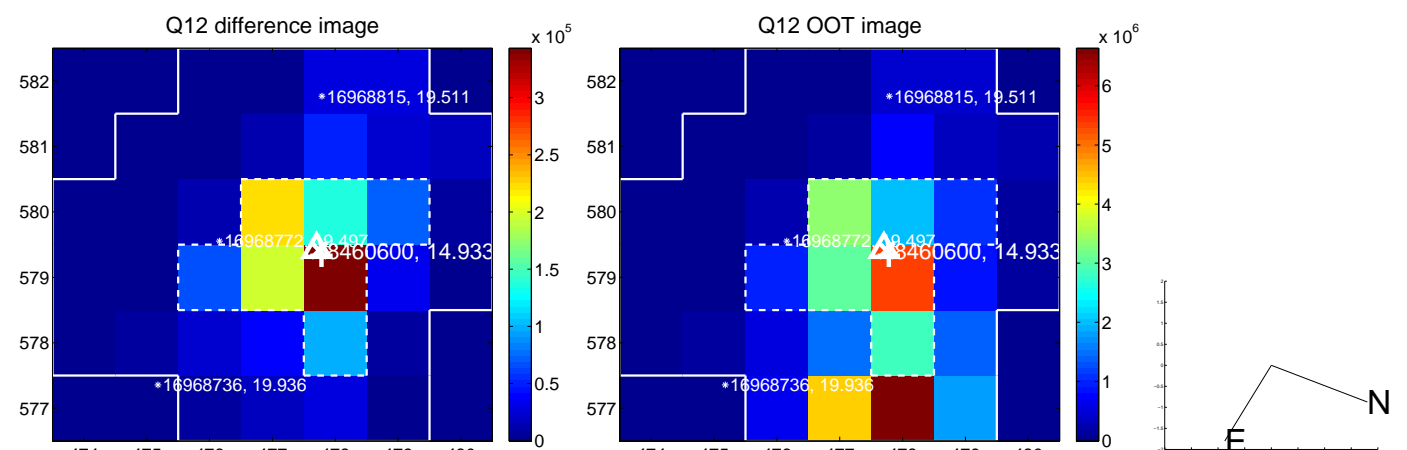
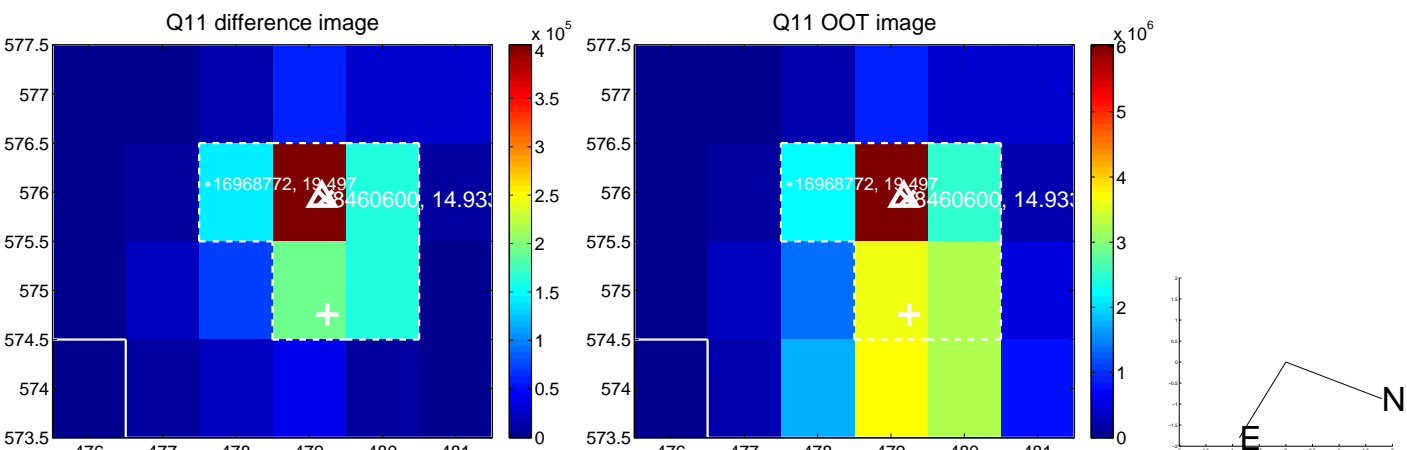
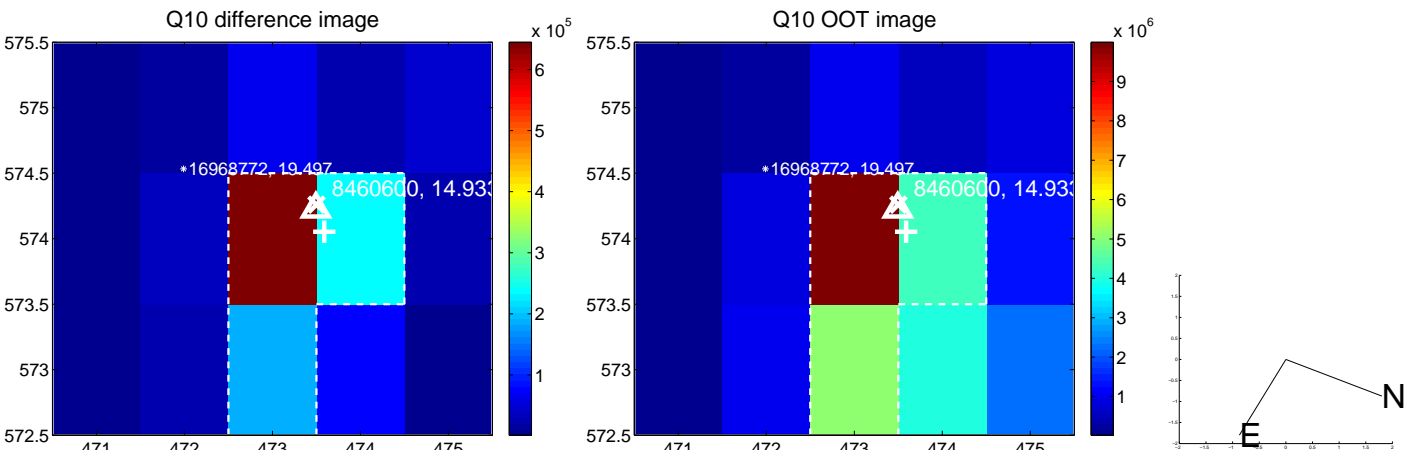
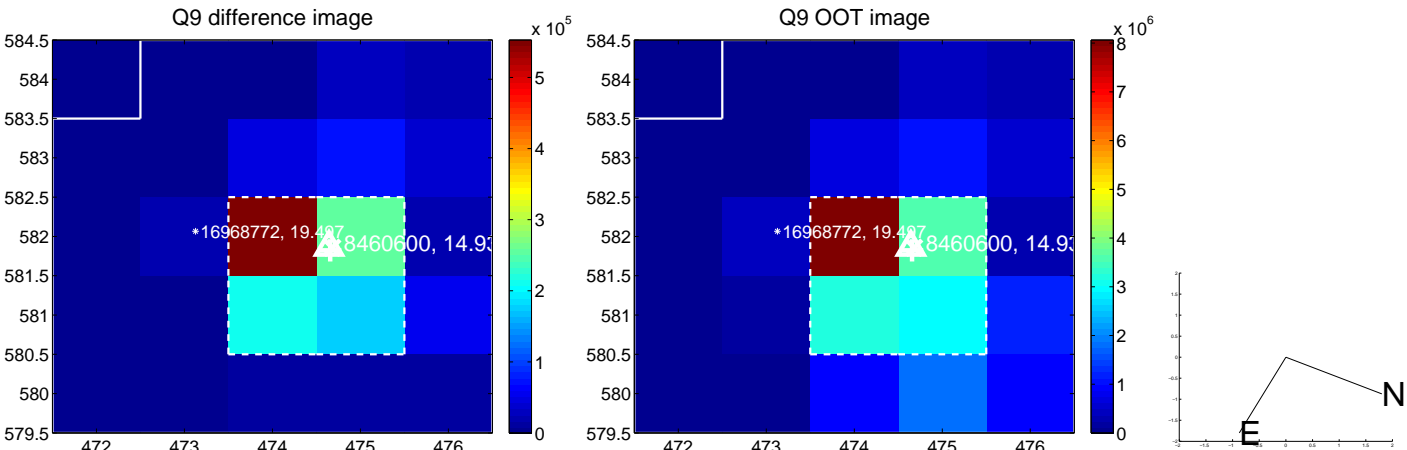


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

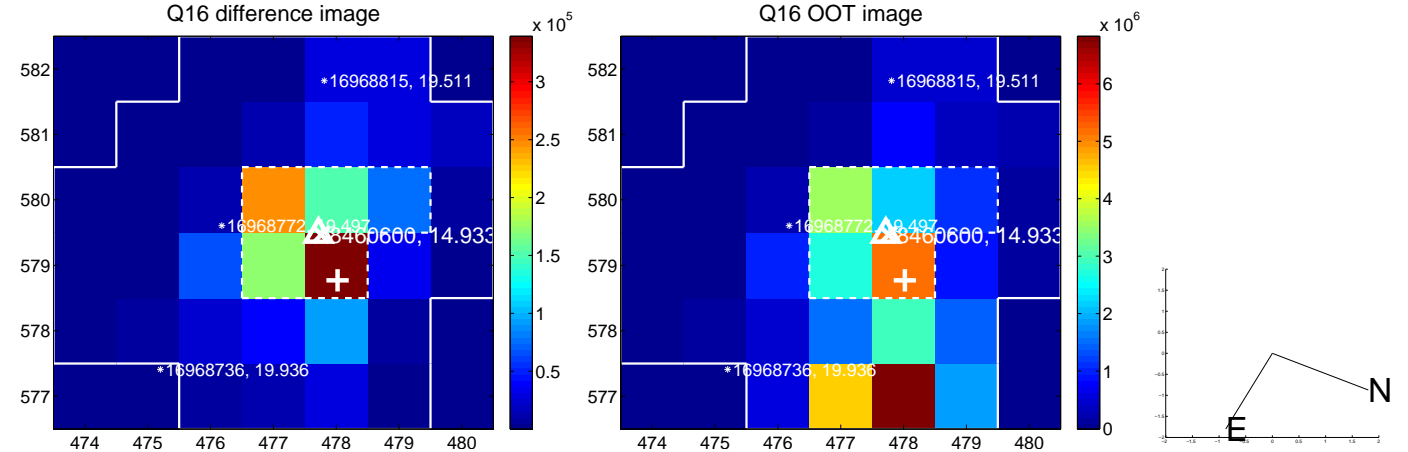
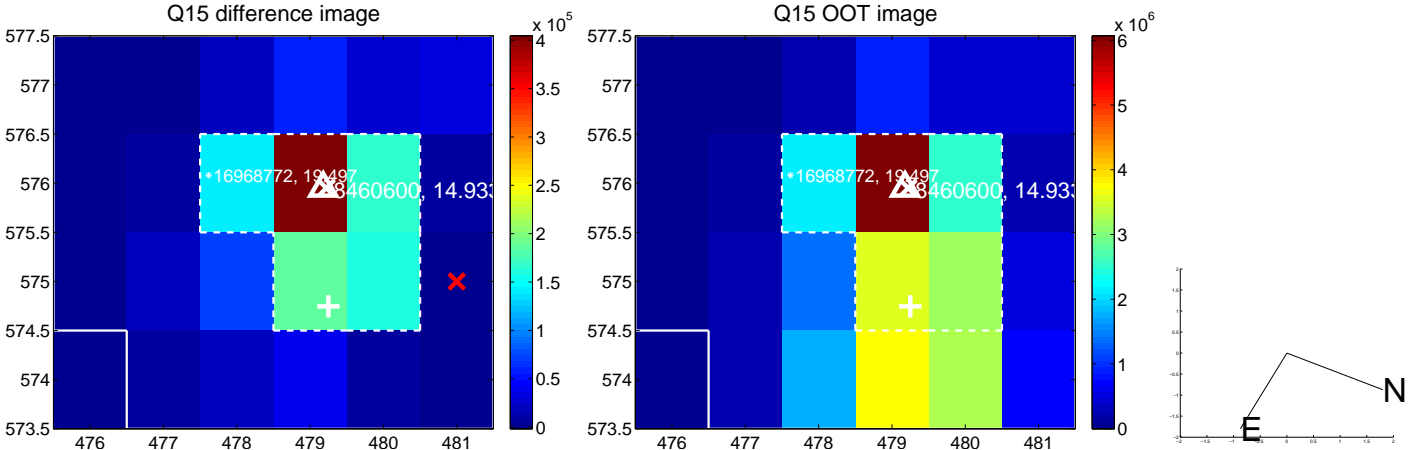
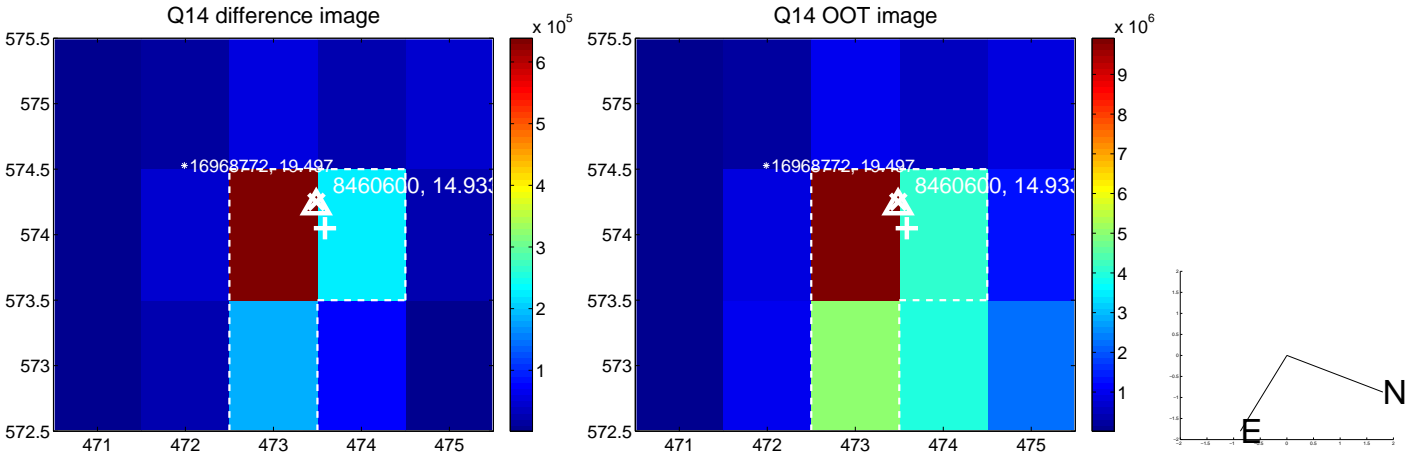
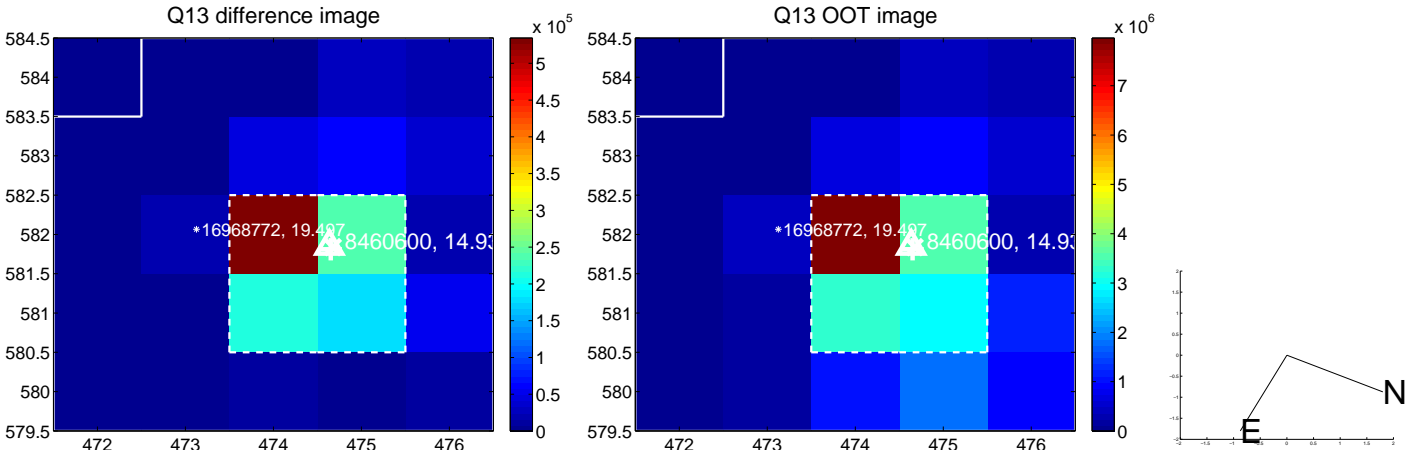
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



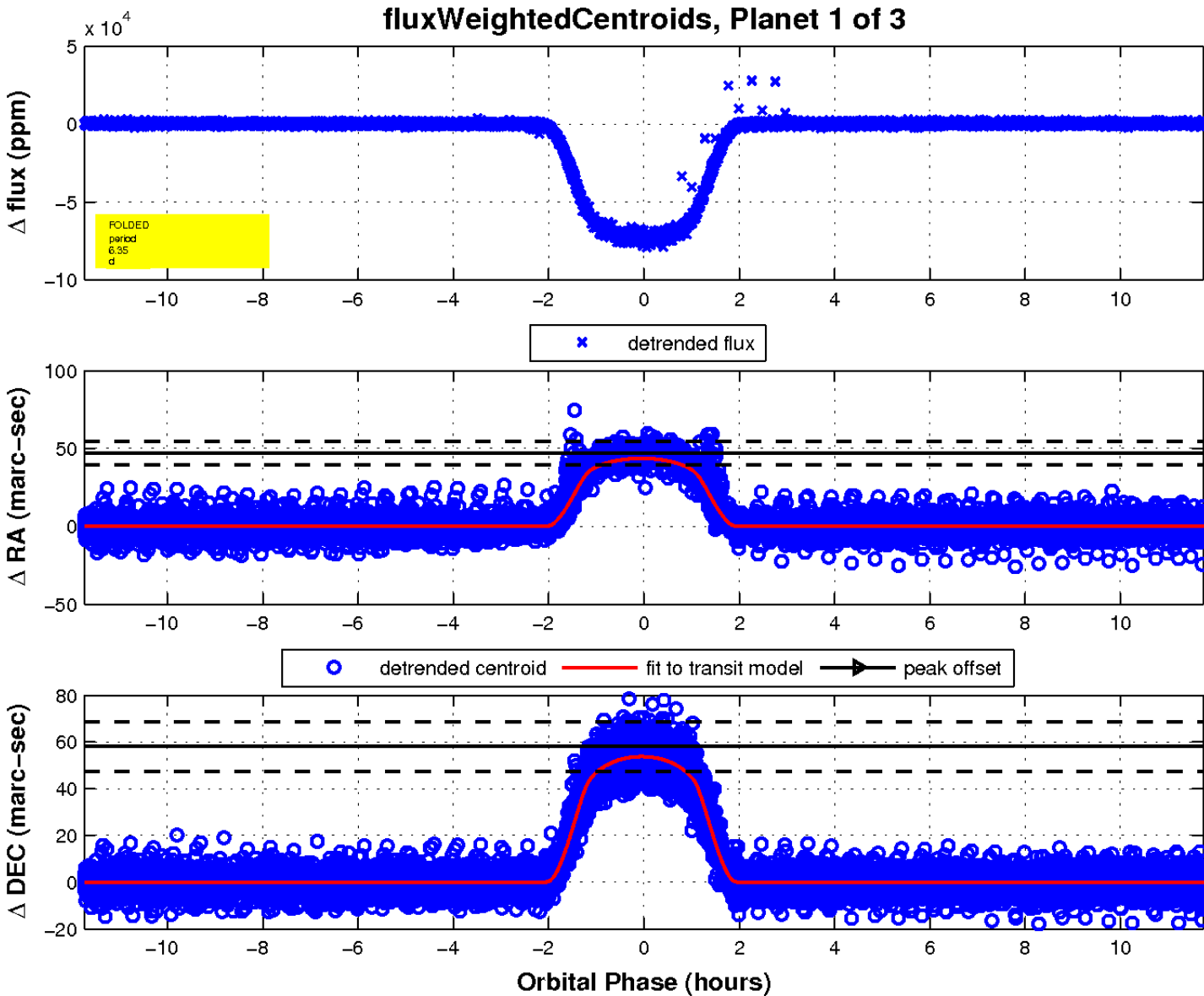
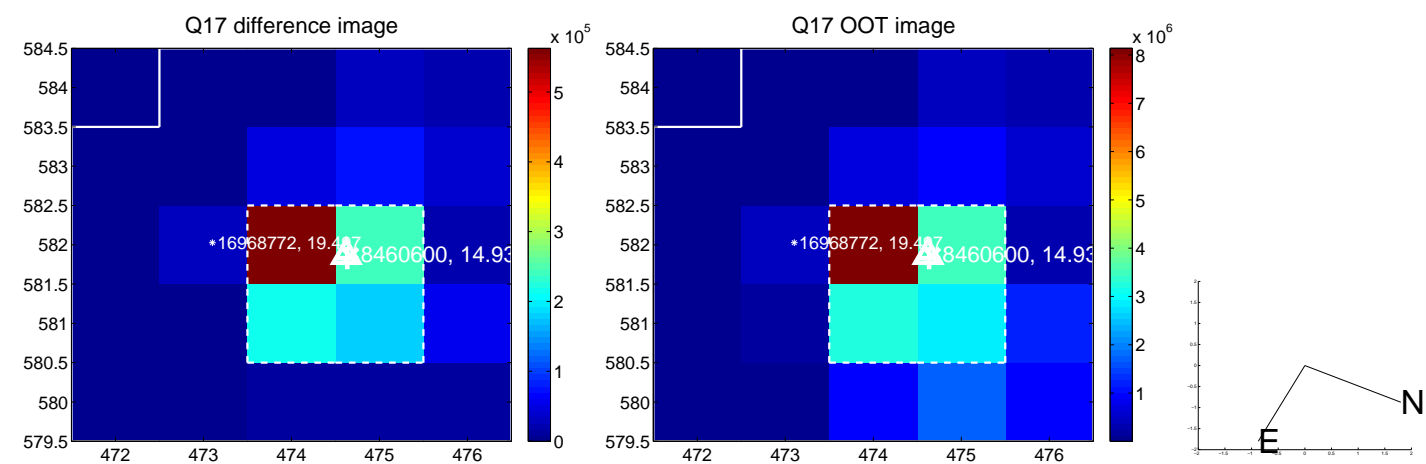
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



Declination

KIC 008460600

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})
008460600-01	OBS	1730.01	6.352091	134.207041	75472.7	3.915	3249.1	2326.1	0.69	5089	18.85	83.95
008460600-02	OBS	No	6.352088	137.382158	2654.4	3.811	115.2	116.3	0.69	5089	4.08	83.95
008460600-03	OBS	No	282.271700	410.915330	941.8	9.507	13.3	5.6	0.69	5089	2.26	0.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008460600-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—HAS_SEC_TCE—CENT_KIC_POS
008460600-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_KIC_POS
008460600-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_FEW_MEAS

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 for comment definitions.

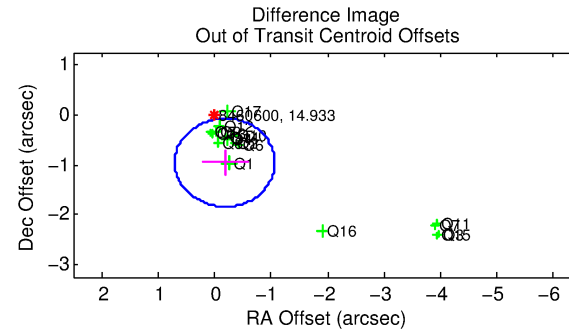
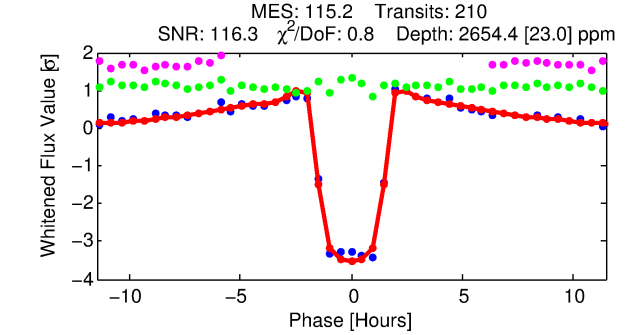
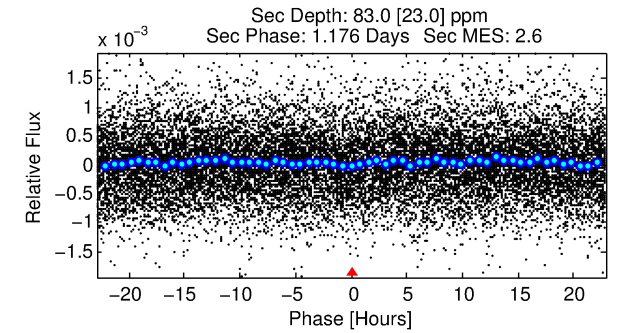
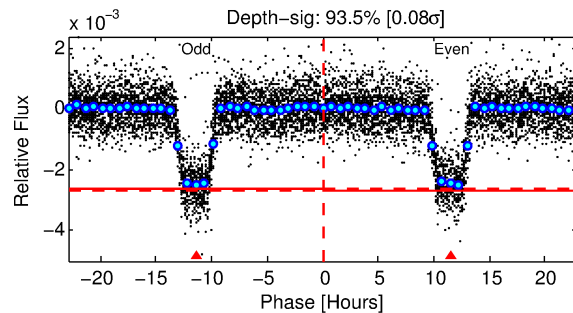
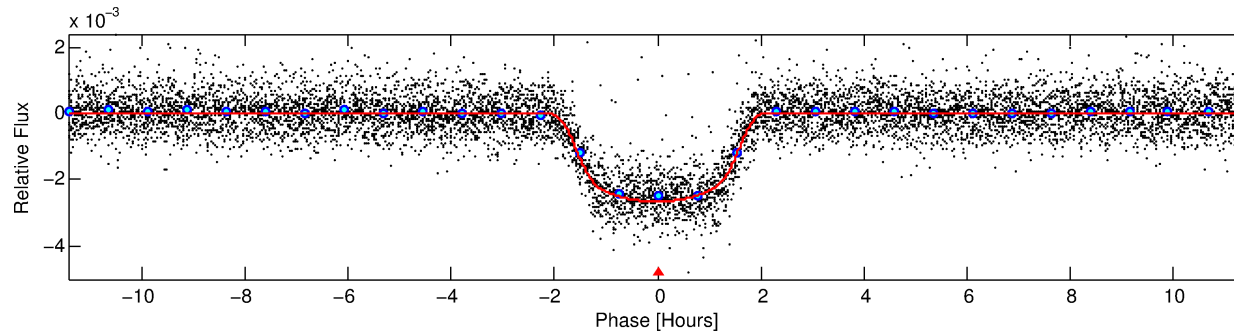
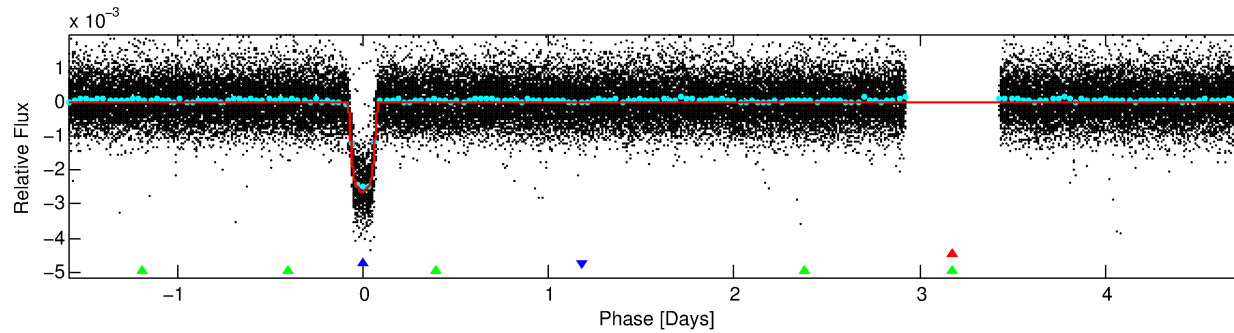
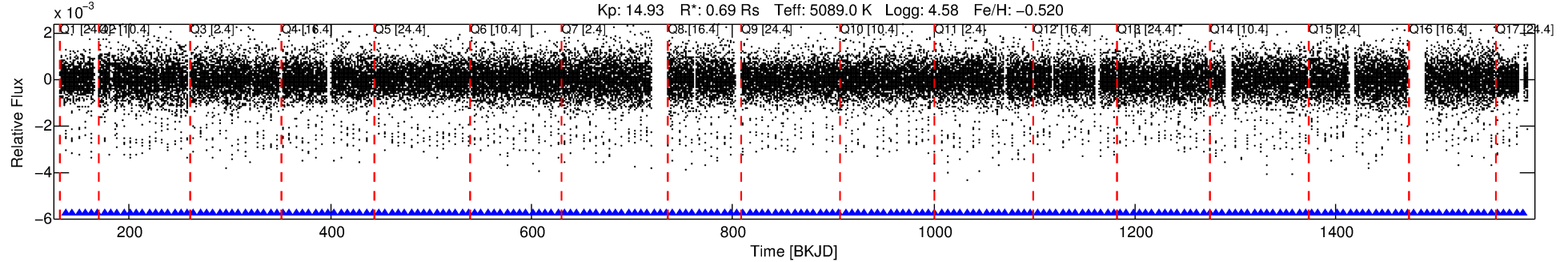
Ephemeris Match Information For 008460600-02

No Significant Match Found

DV One-Page Summary

KIC: 8460600 Candidate: 2 of 3 Period: 6.352 d
KOI: K01730 Corr: No Ephemeris Match

Kp: 14.93 R*: 0.69 Rs Teff: 5089.0 K Logg: 4.58 Fe/H: -0.520



DV Fit Results:

Period = 6.35209 [0.00000] d
Epoch = 137.3822 [0.0005] BKJD
Rp/R* = 0.0539 [0.0008]
a/R* = 8.23 [0.42]
b = 0.84 [0.02]
Seff = 83.95 [14.97]
Teq = 772 [34] K
Rp = 4.08 [0.43] Re
a = 0.0586 [0.0052] AU
Ag = 9.45 [2.90] [2.91σ]
Teffp = 2092 [159] K [8.13σ]

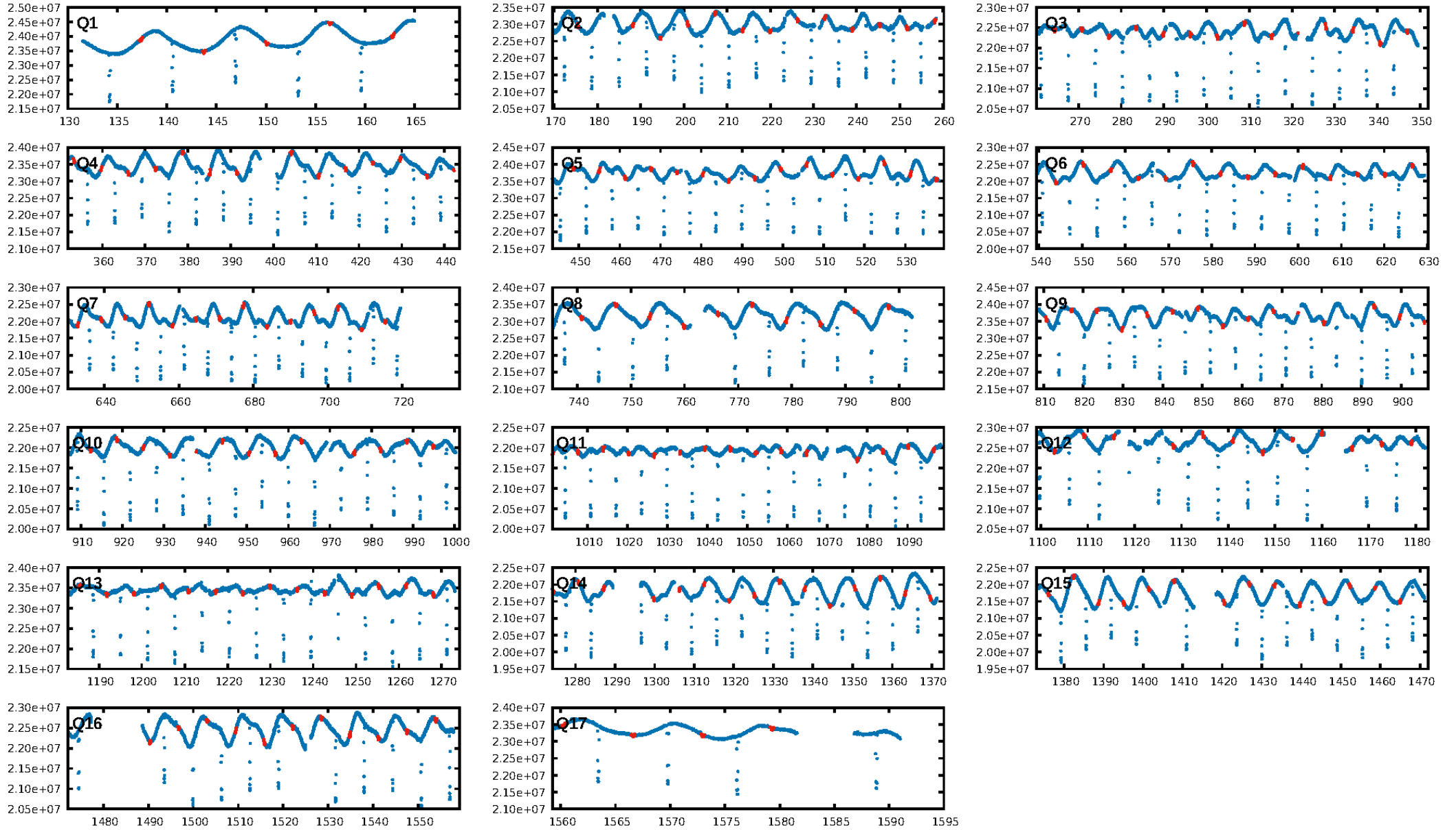
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [201/201]
GhostDiagnostic-chr: 2.19
Centroid-sig: 0.0%
Centroid-so: 1.829 arcsec [26.32σ]
OotOffset-rm: 0.977 arcsec [3.32σ]
KicOffset-rm: 0.231 arcsec [3.05σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

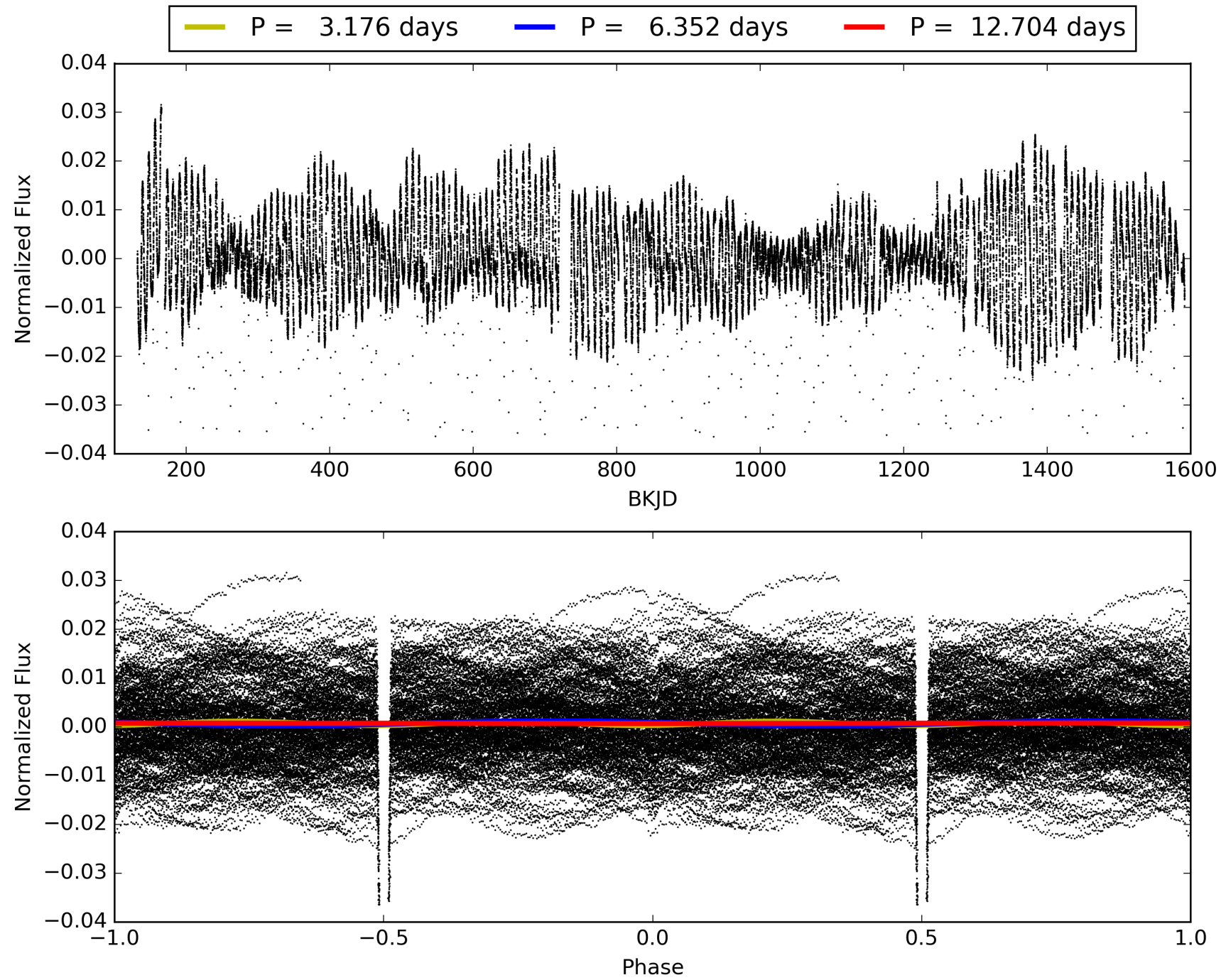
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 17:09:13 Z

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

TCE 008460600-02, PDC Light Curves

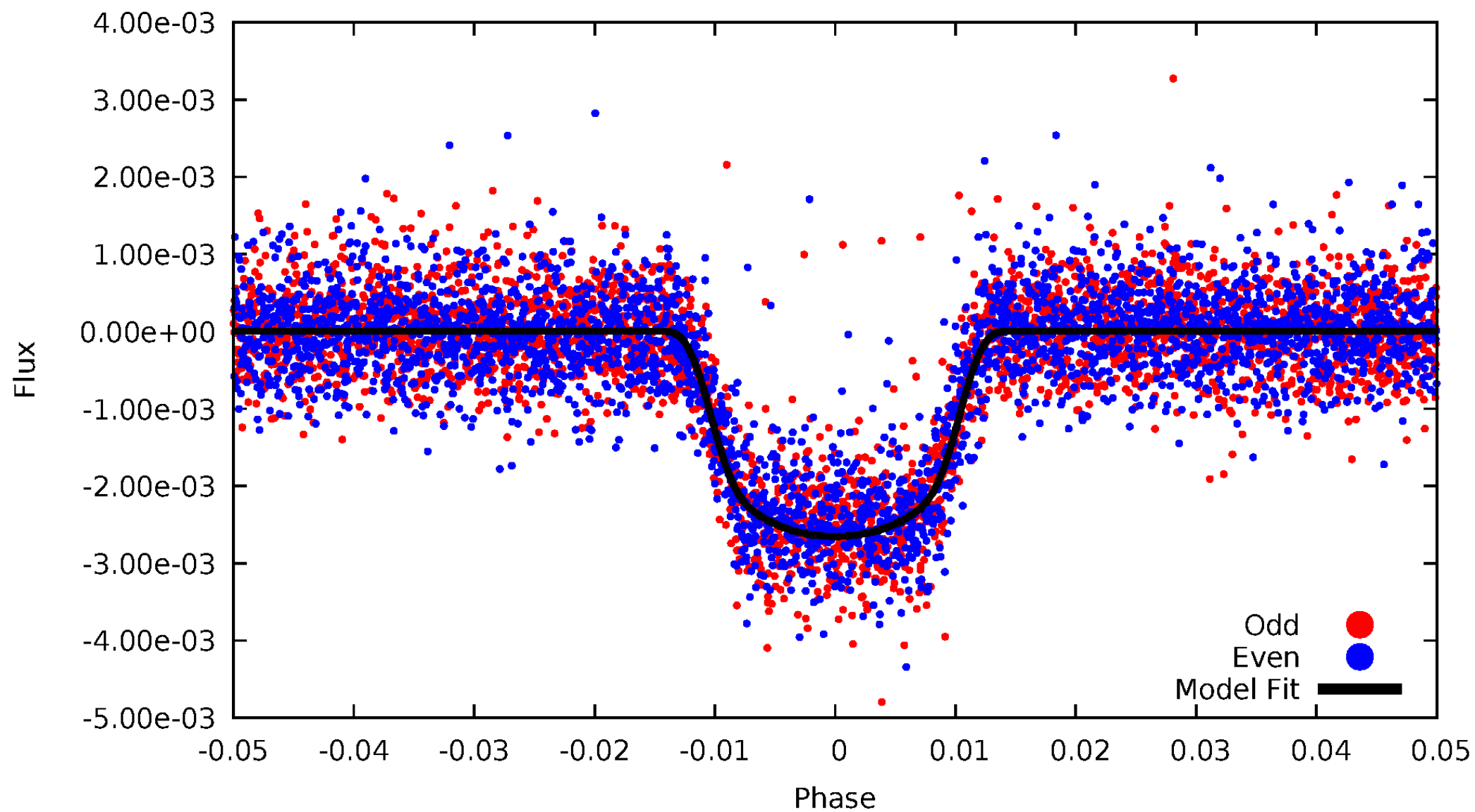


TCE 008460600-02



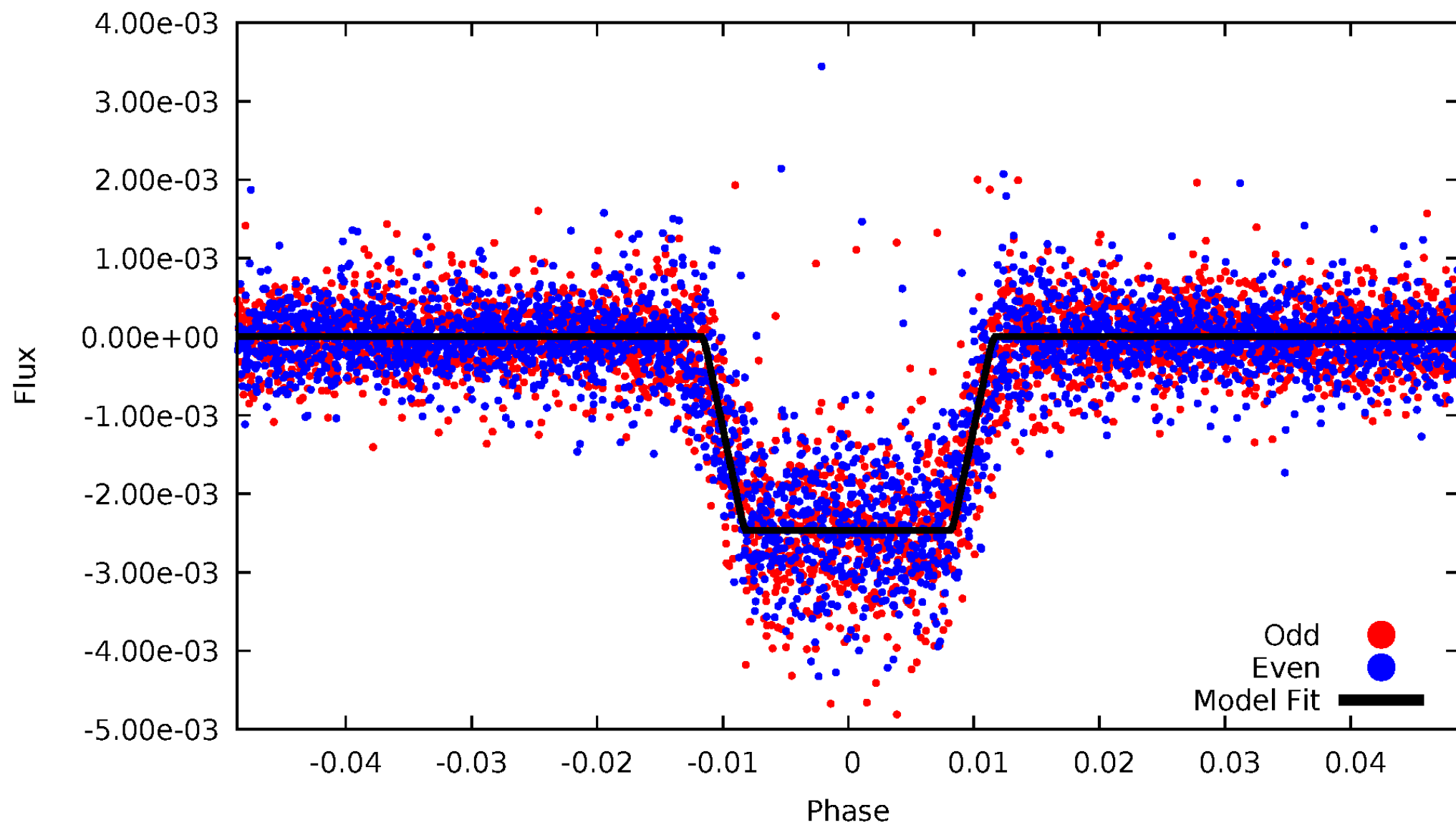
DV Odd/Even

TCE 008460600-02



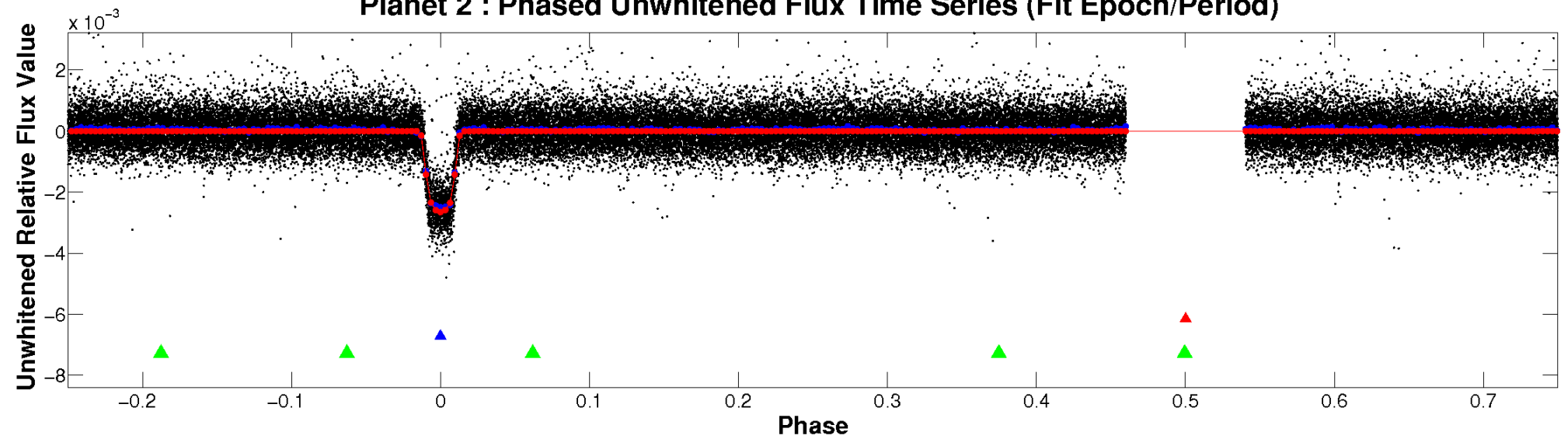
ALT Odd/Even

TCE 008460600-02

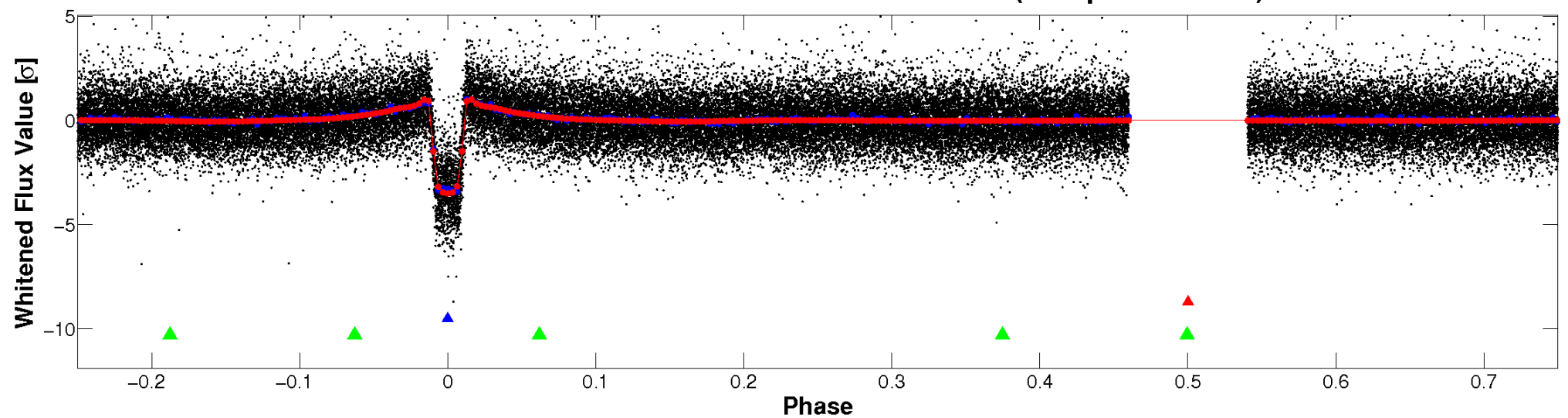


Non-Whitened Vs. Whitened Light Curve

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

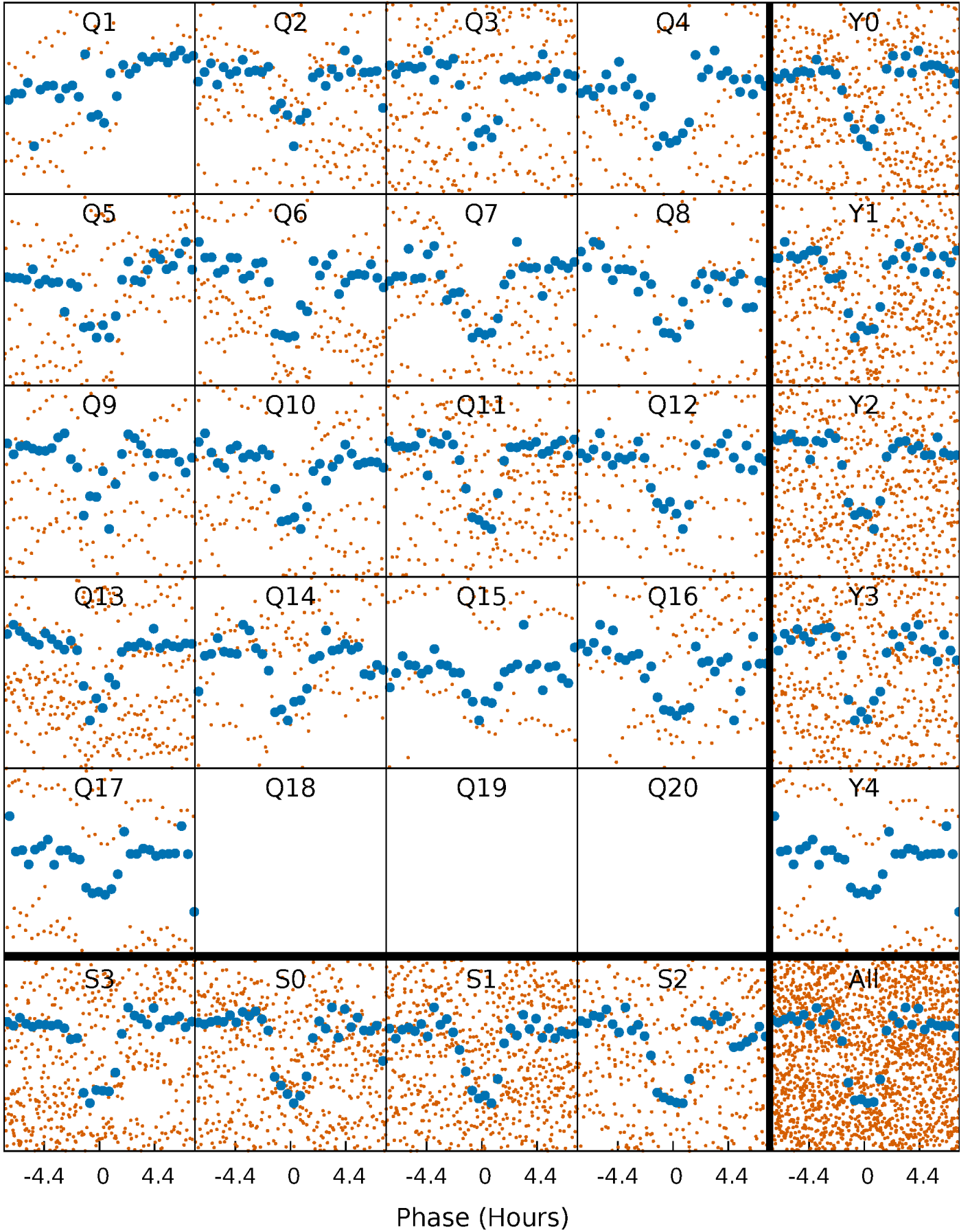


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



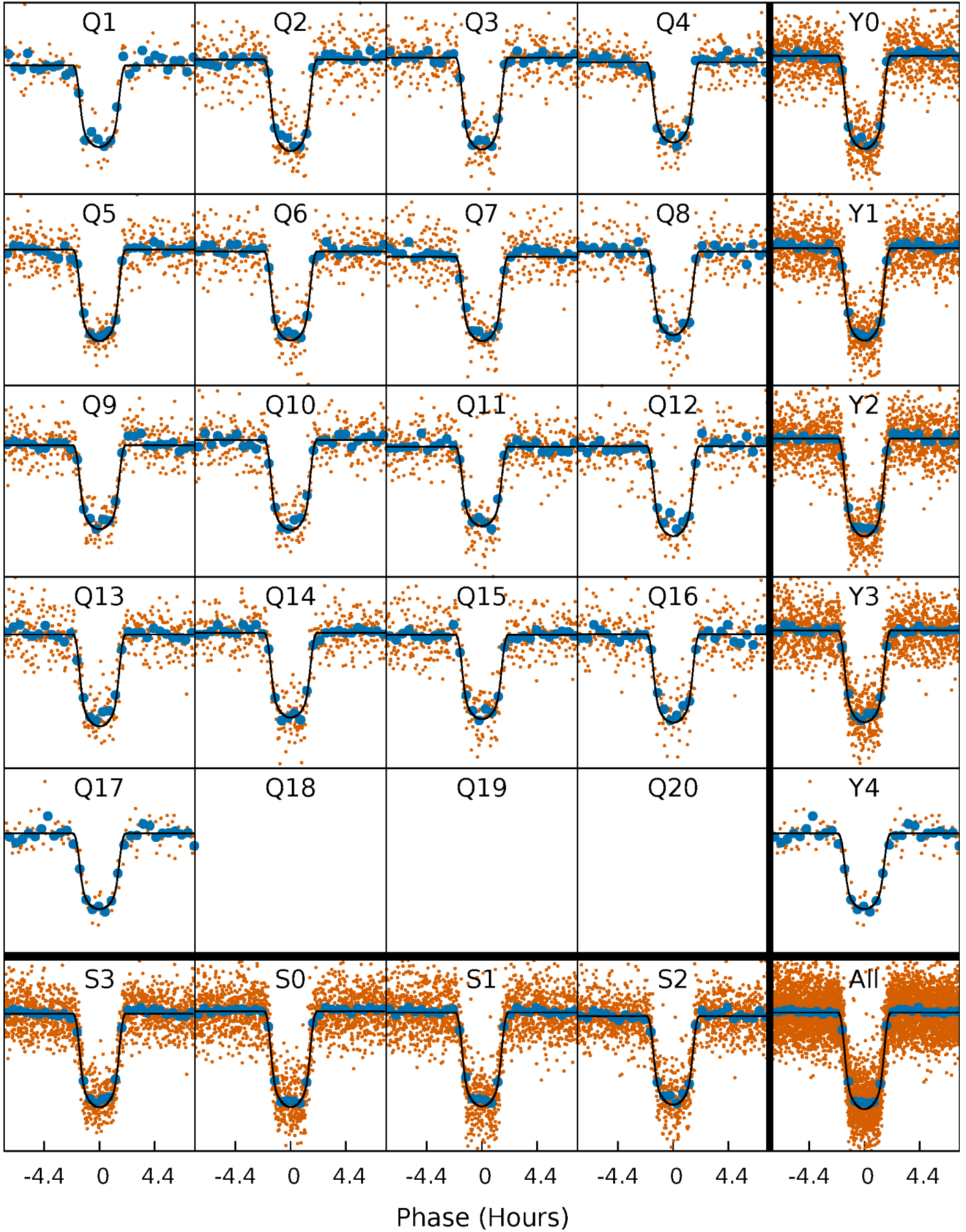
PDC Quarter-Phased Transit Curves

TCE 008460600-02 P= 6.352088 Days $T_0=137.382158$ (BKJD)



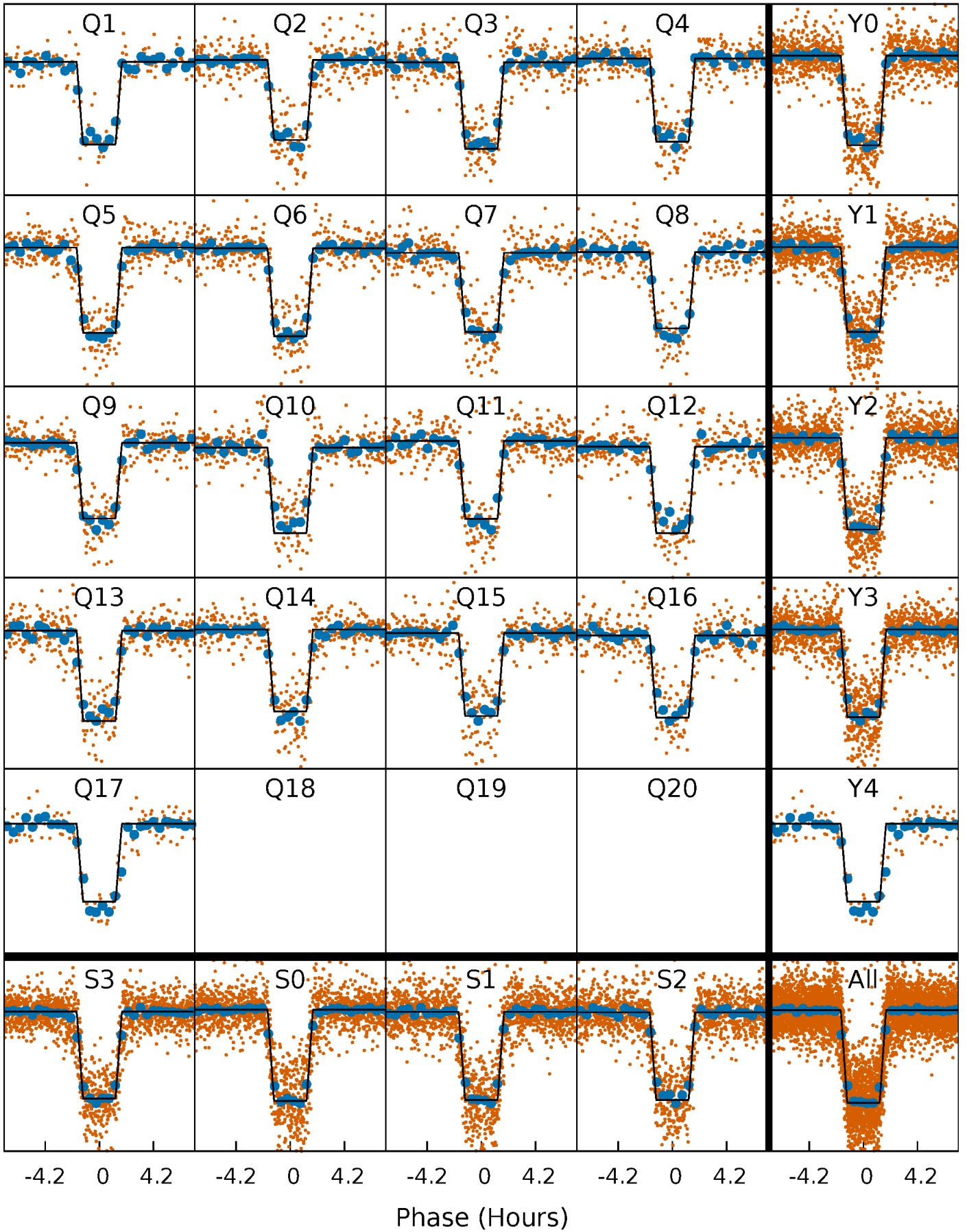
DV Quarter-Phased Transit Curves

TCE 008460600-02 P= 6.352088 Days $T_0=137.382158$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

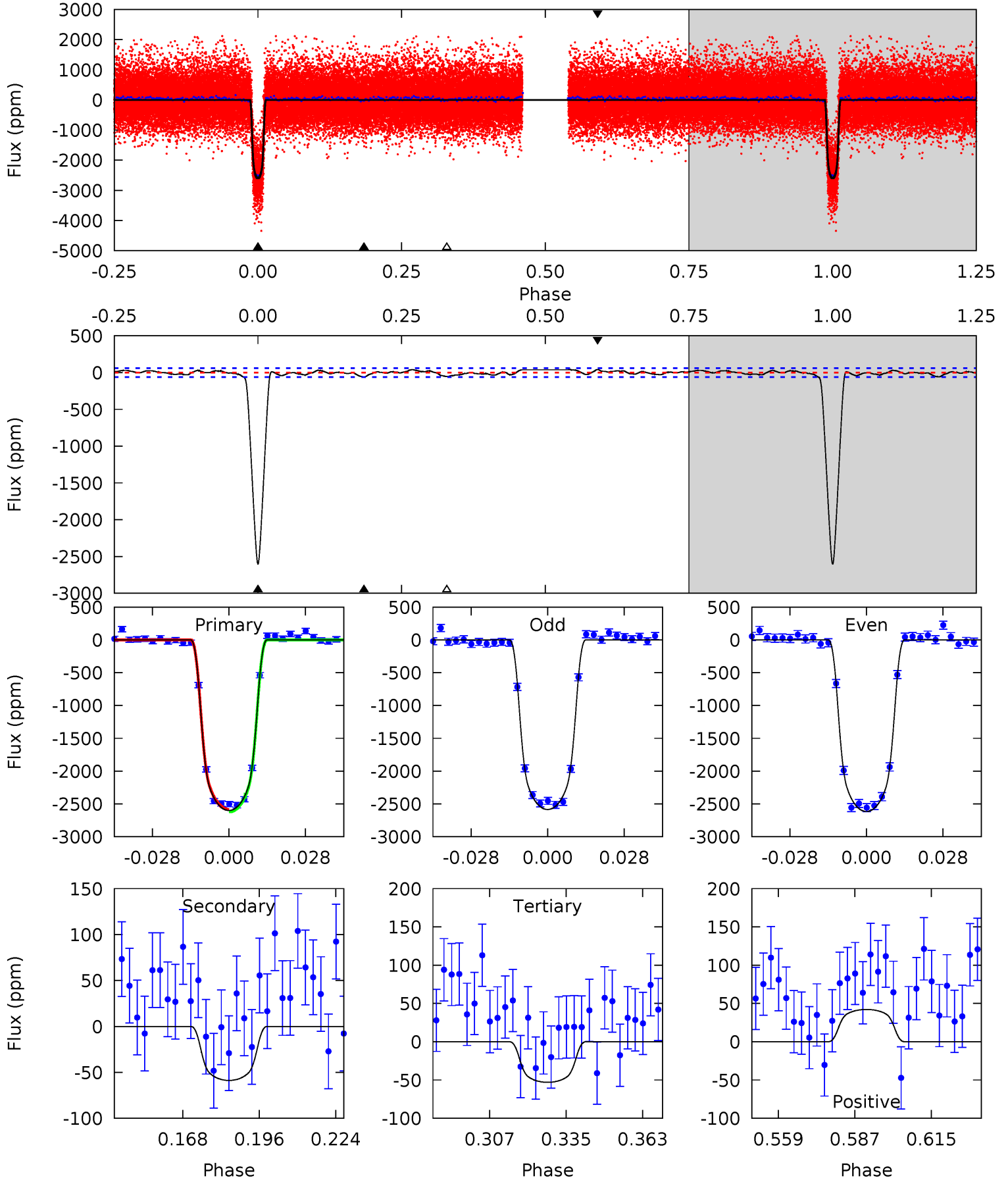
TCE 008460600-02 P= 6.352084 Days $T_0=137.382744$ (BKJD)



DV Model-Shift Uniqueness Test

008460600-02, P = 6.352088 Days, E = 131.030070 Days

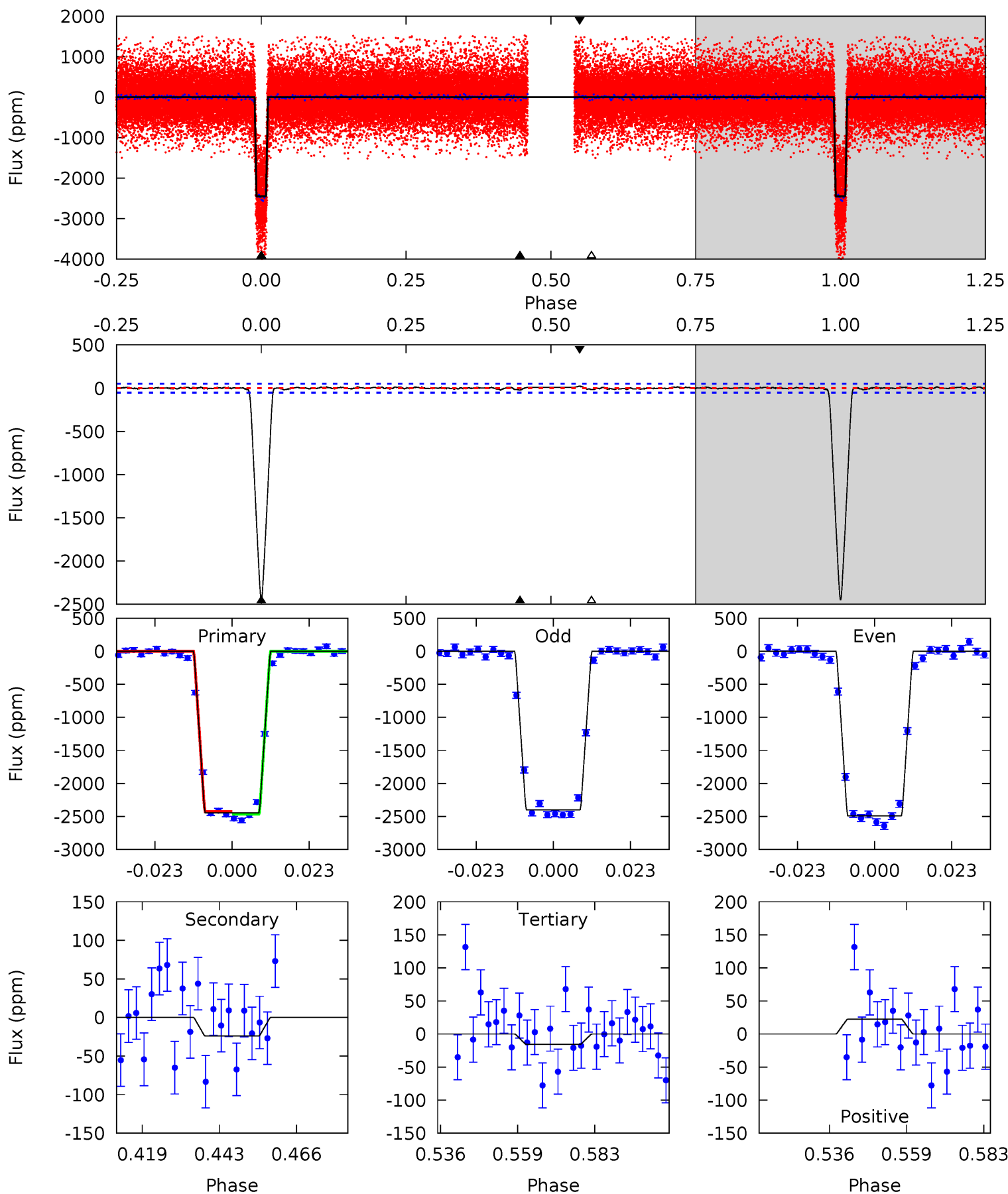
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
206.6	4.67	4.21	3.35	4.83	2.20	1.63	202.3	203.2	0.46	1.32	1.22	0.99	0.02	1.46



Alt Model-Shift Uniqueness Test

008460600-02, P = 6.352084 Days, E = 131.030660 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
230.9	2.26	1.49	2.12	4.86	2.27	0.63	229.4	228.8	0.77	0.14	4.15	1.00	0.01	1.87



Stellar Parameters For KIC 008460600

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5089^{+154}_{-138}	$4.580^{+0.072}_{-0.048}$	$-0.520^{+0.300}_{-0.300}$	$0.693^{+0.073}_{-0.067}$	$0.666^{+0.087}_{-0.037}$	$2.818^{+0.888}_{-0.470}$
	+3%/-3%	+2%/-1%	+58%/-58%	+11%/-10%	+13%/-6%	+32%/-17%
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 008460600-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-59 ± 13	$4.07^{+0.27}_{-0.23}$	1075^{+41}_{-41}	2671^{+82}_{-95}	$6.819^{+1.789}_{-1.530}$
Alt.	-24 ± 11	$3.75^{+0.24}_{-0.21}$	1074^{+42}_{-42}	2422^{+119}_{-184}	$3.262^{+1.408}_{-1.498}$

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

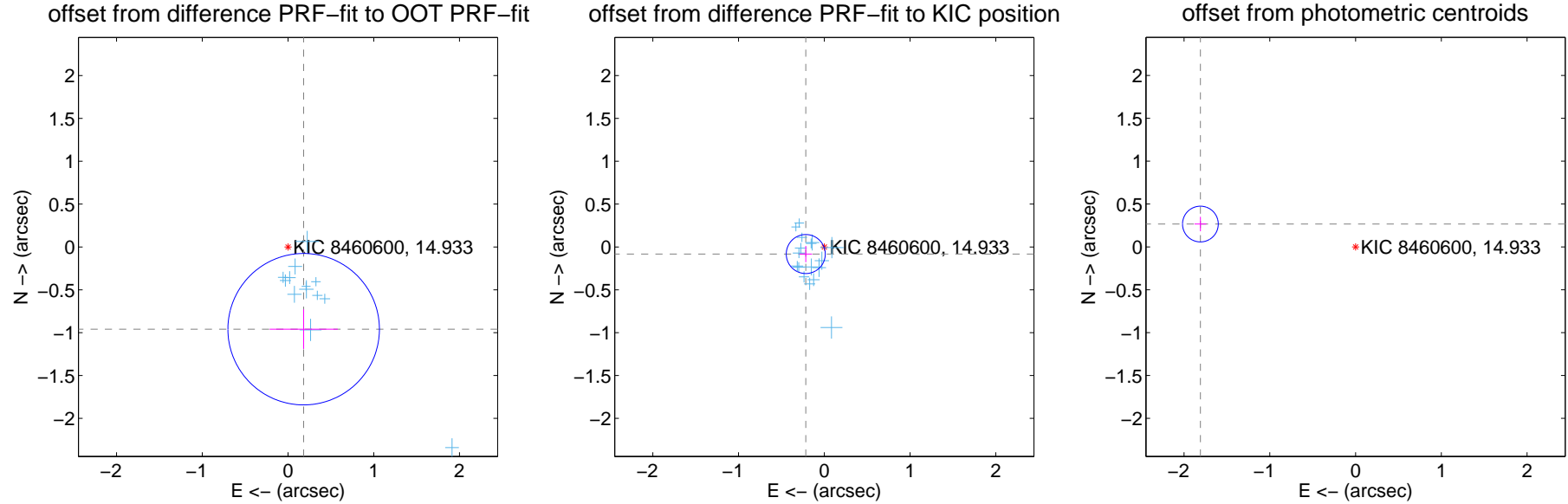
DV Centroid Data

Supplemental centroid analysis for 008460600-02. Kepler magnitude: 14.93. Transit SNR 116.27

There are 17 quarters with good PRF difference image offsets

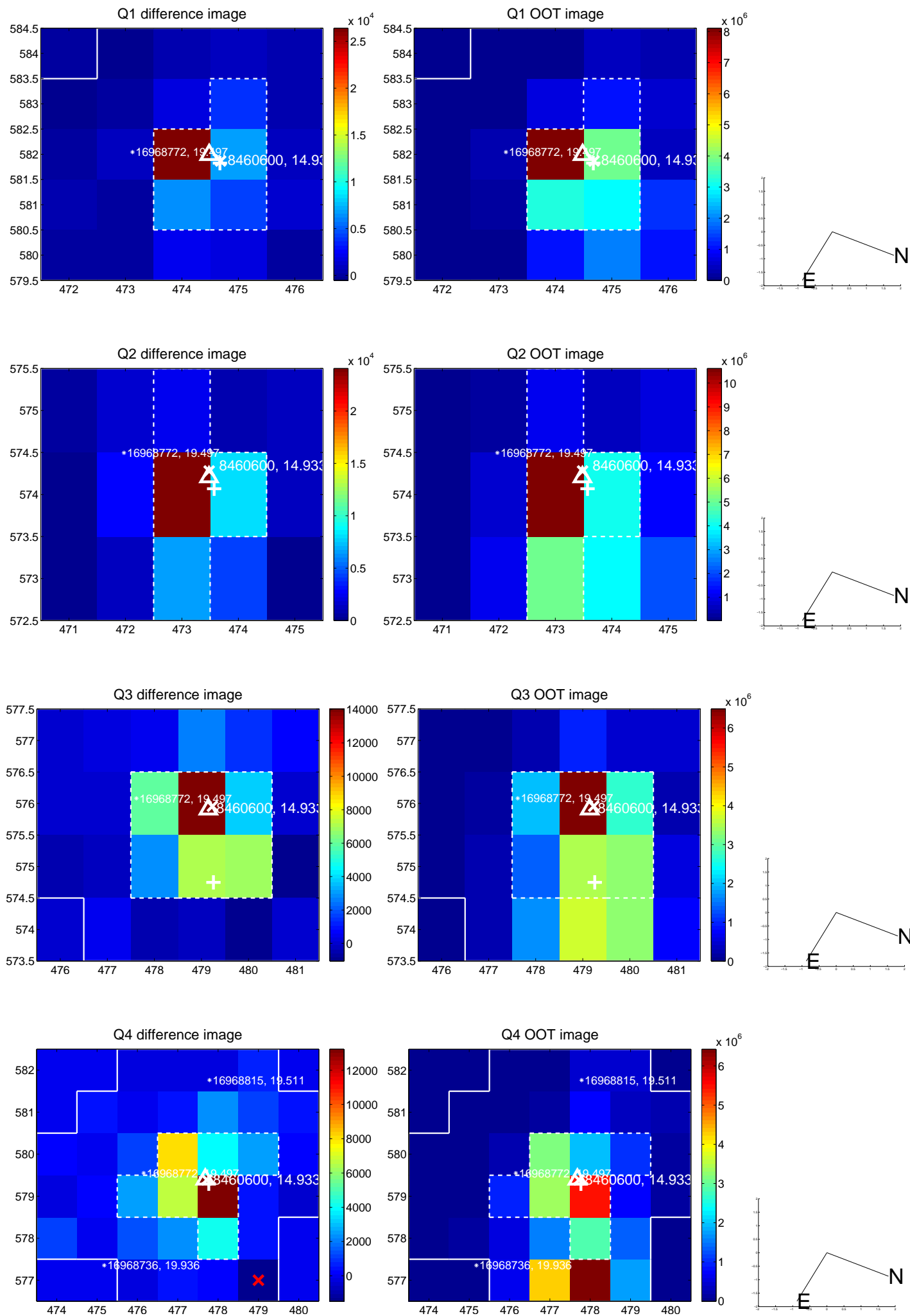
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.977 ± 0.294	3.32	-0.182 ± 0.397	-0.959 ± 0.231
PRF-fit source offset from KIC position	0.231 ± 0.076	3.05	0.216 ± 0.073	-0.083 ± 0.095
photometric centroid source offset	1.83 ± 0.07	26.32	1.81 ± 0.07	0.27 ± 0.08

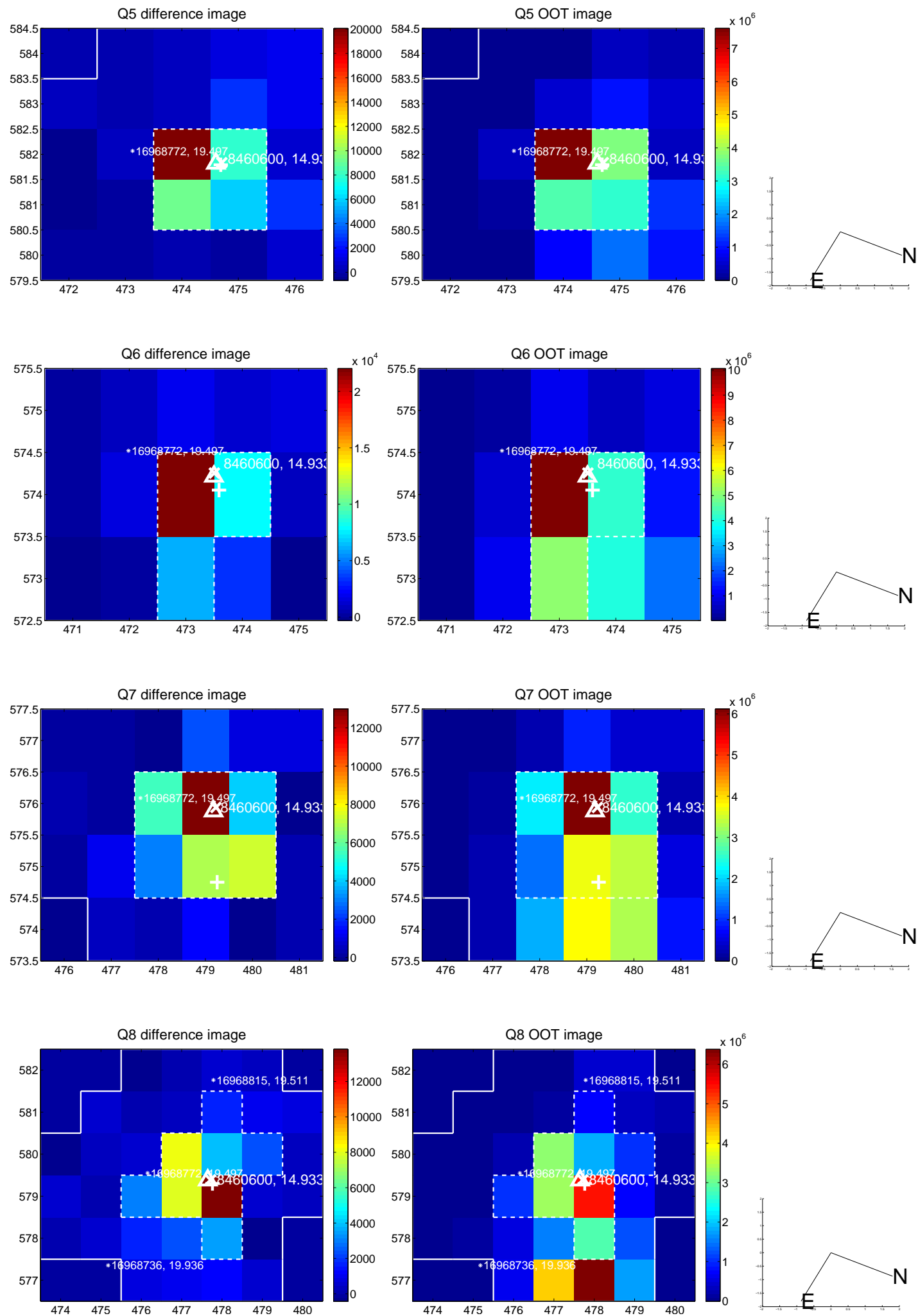


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

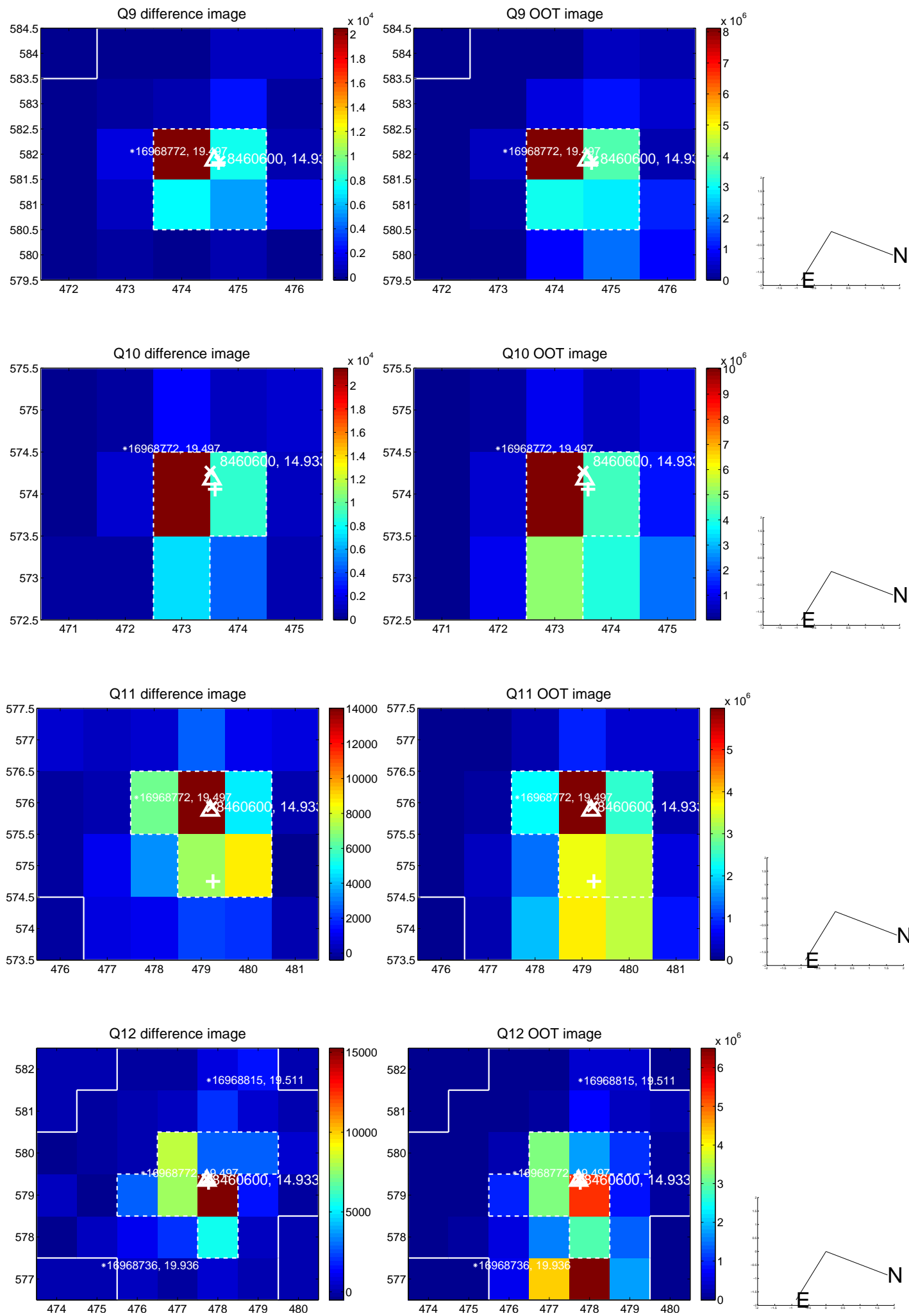
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



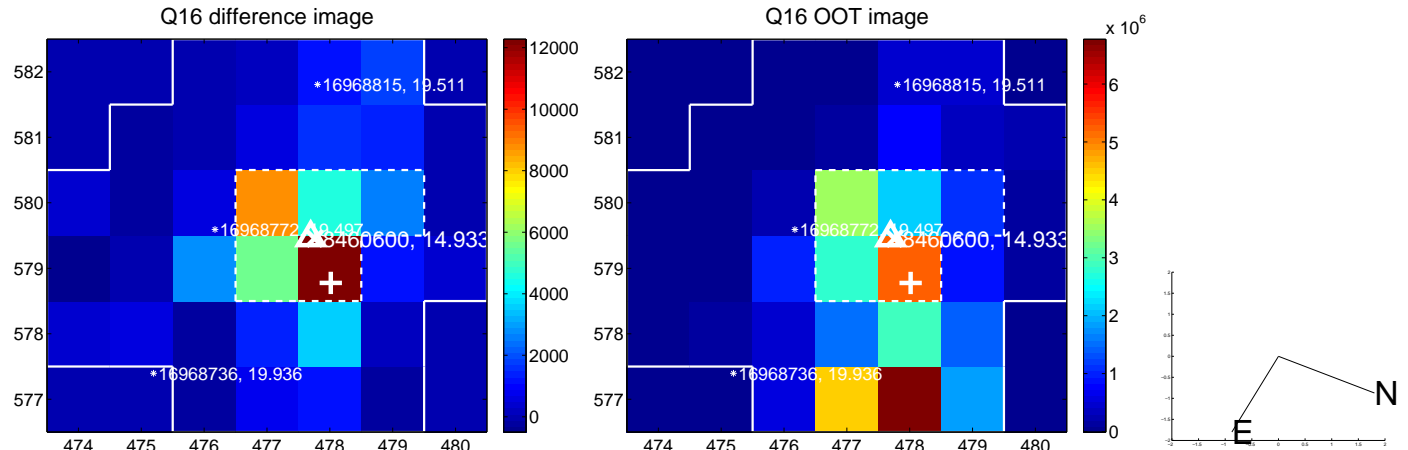
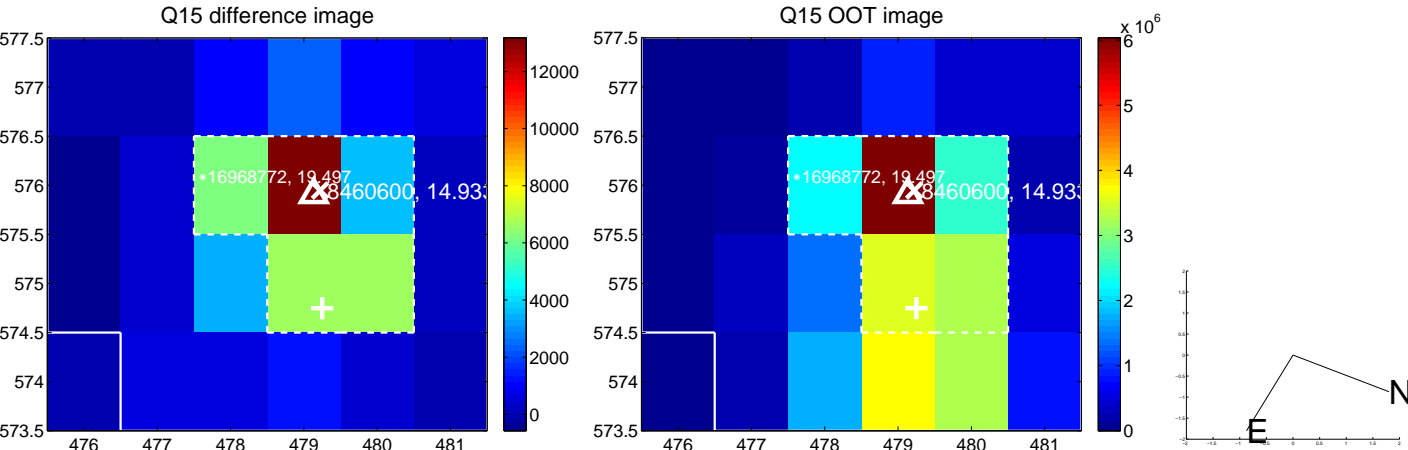
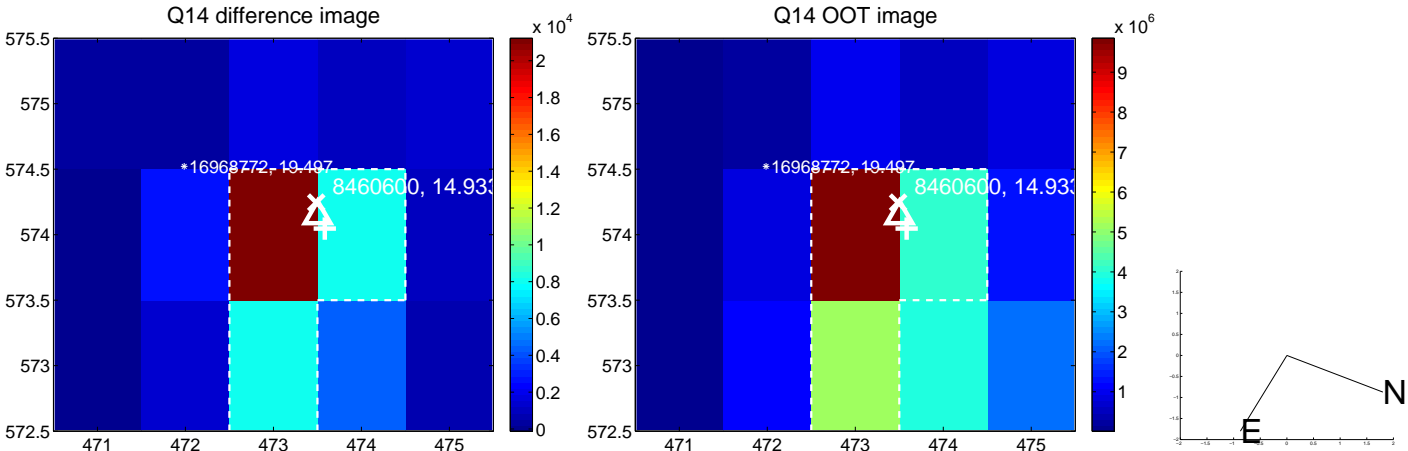
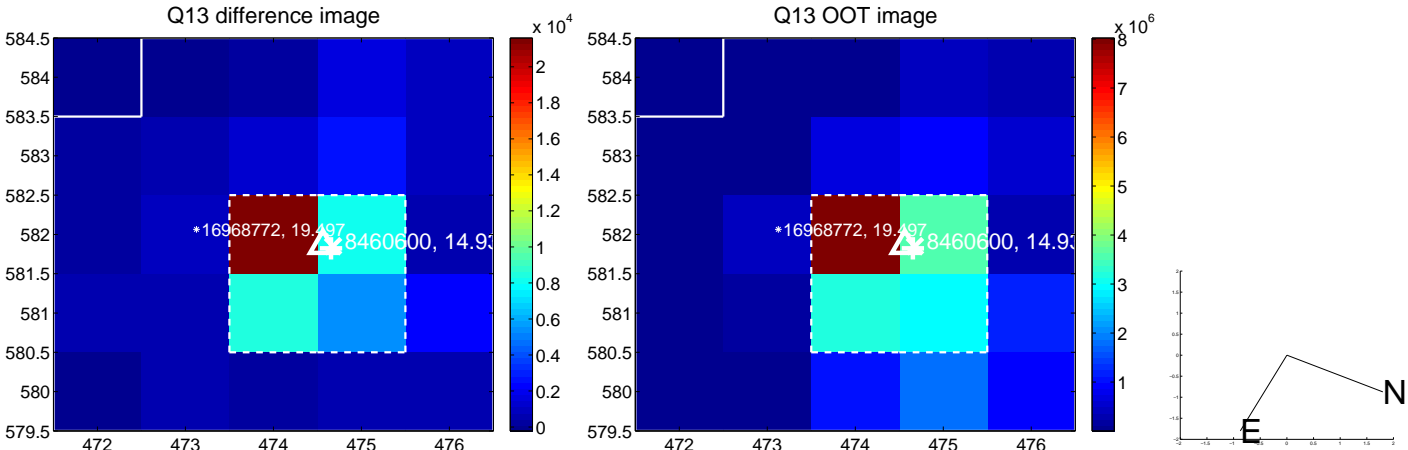
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



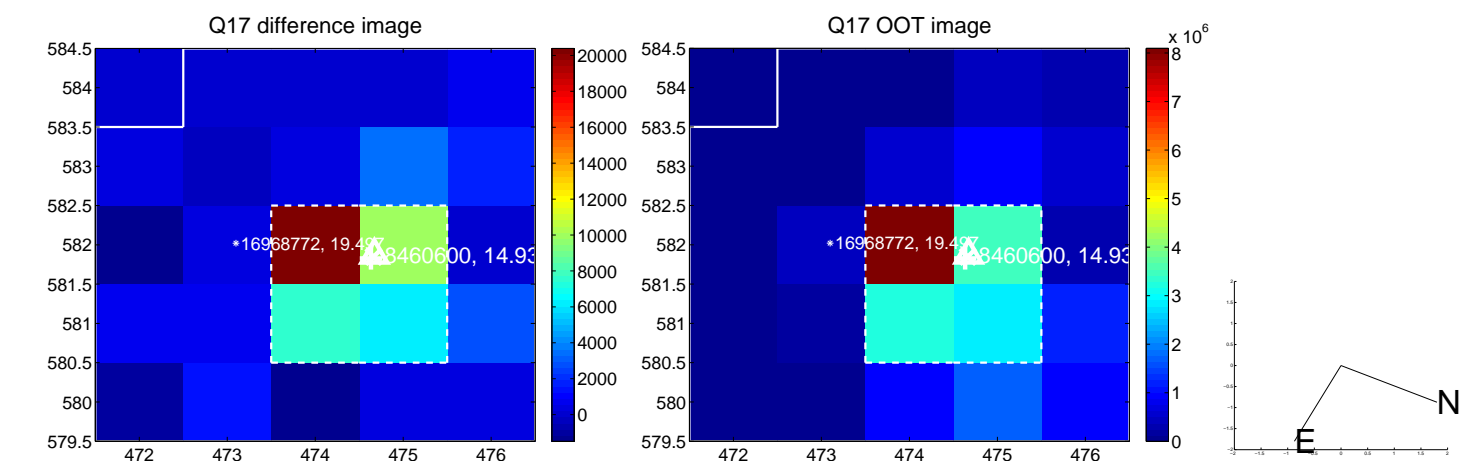
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



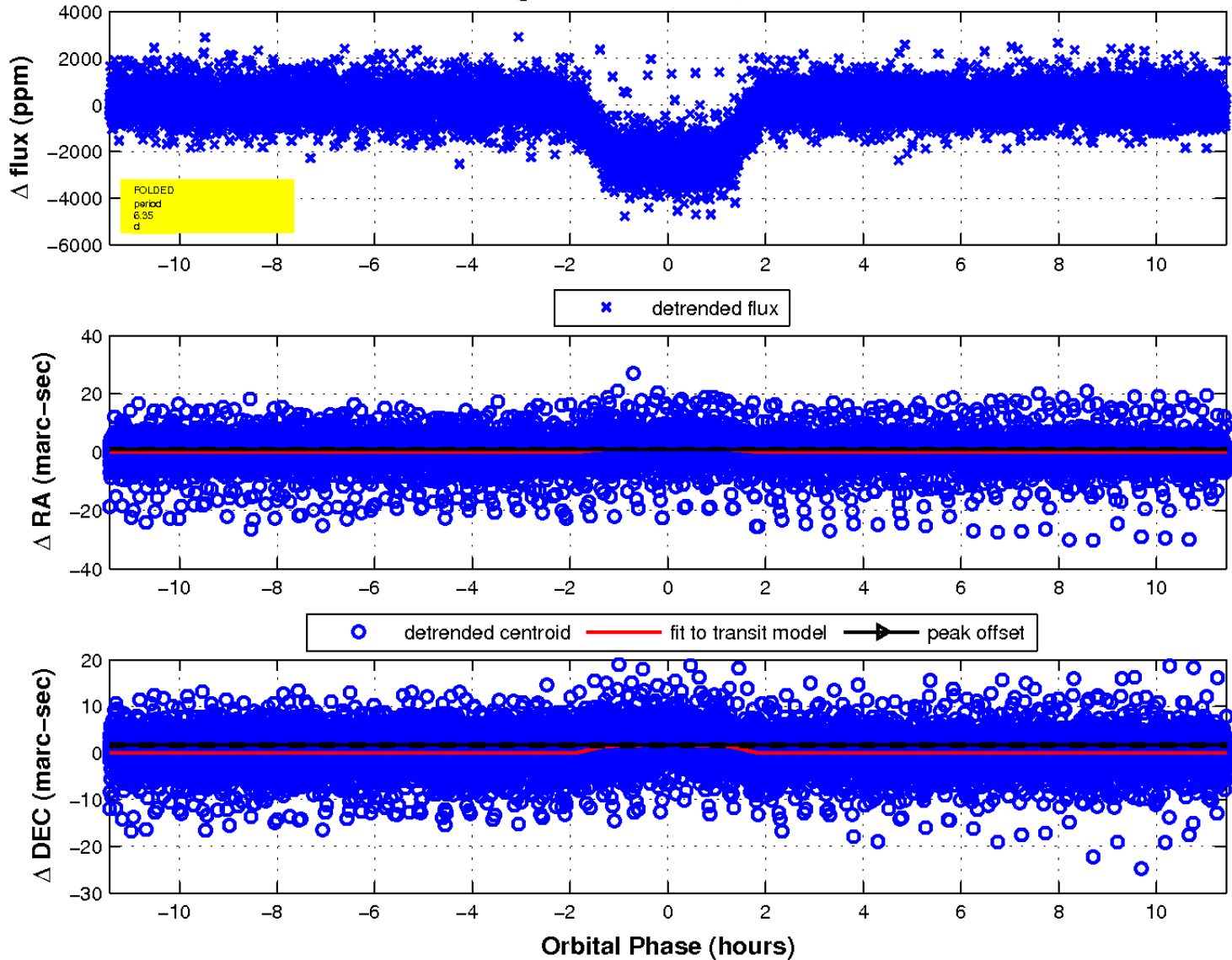
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



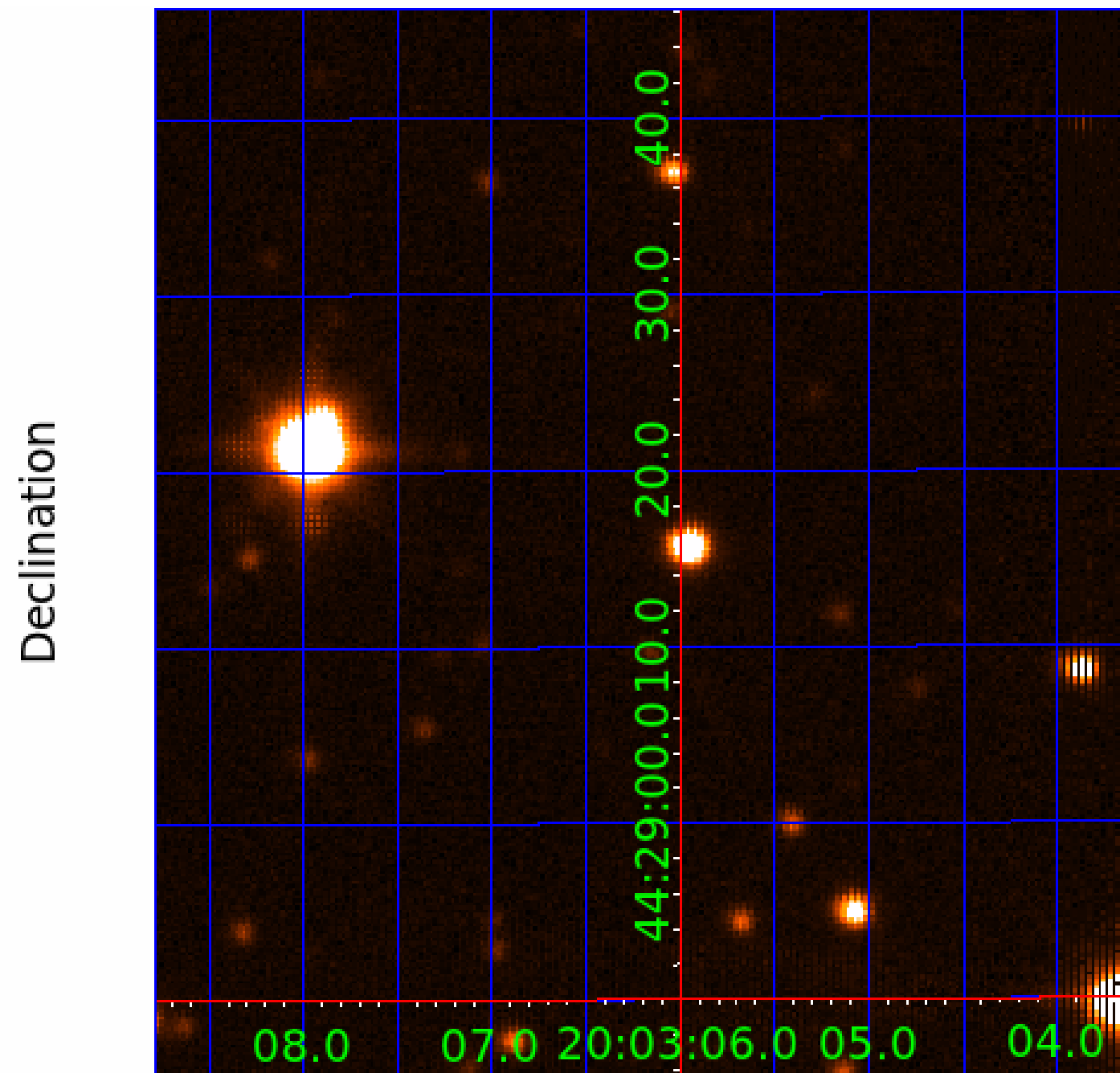
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 2 of 3



UKIRT Image



KIC 008460600

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})
008460600-01	OBS	1730.01	6.352091	134.207041	75472.7	3.915	3249.1	2326.1	0.69	5089	18.85	83.95
008460600-02	OBS	No	6.352088	137.382158	2654.4	3.811	115.2	116.3	0.69	5089	4.08	83.95
008460600-03	OBS	No	282.271700	410.915330	941.8	9.507	13.3	5.6	0.69	5089	2.26	0.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008460600-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—HAS_SEC_TCE—CENT_KIC_POS
008460600-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_KIC_POS
008460600-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_FEW_MEAS

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 for comment definitions.

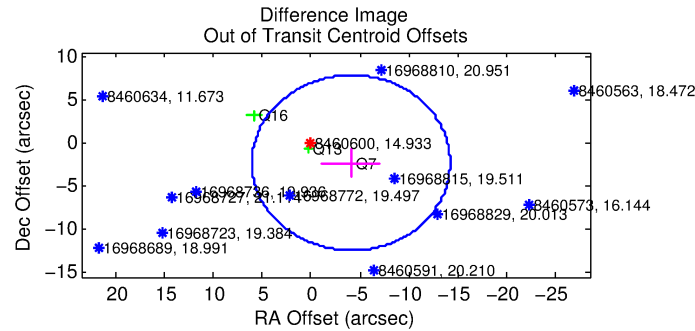
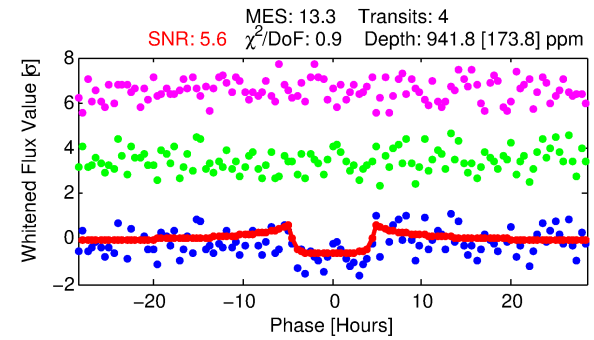
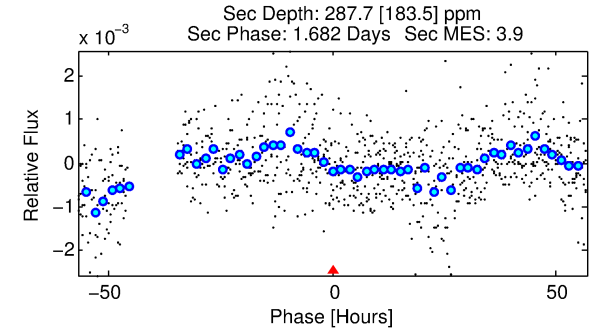
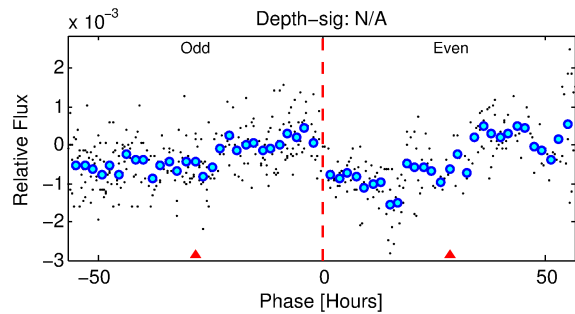
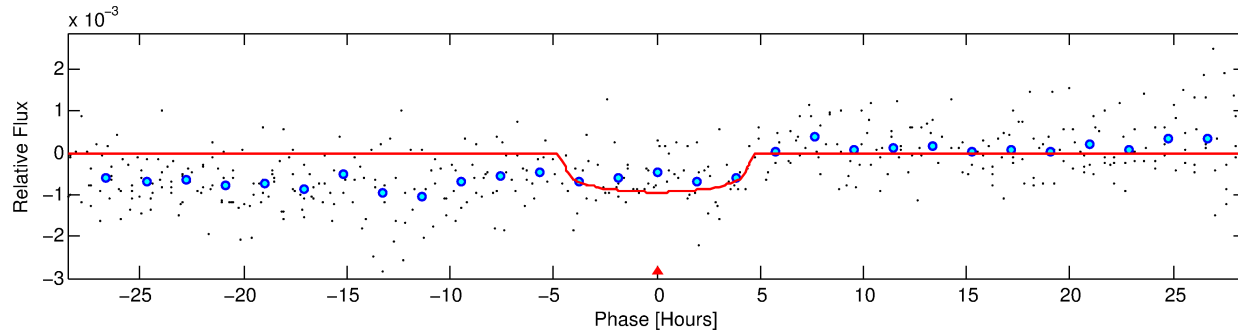
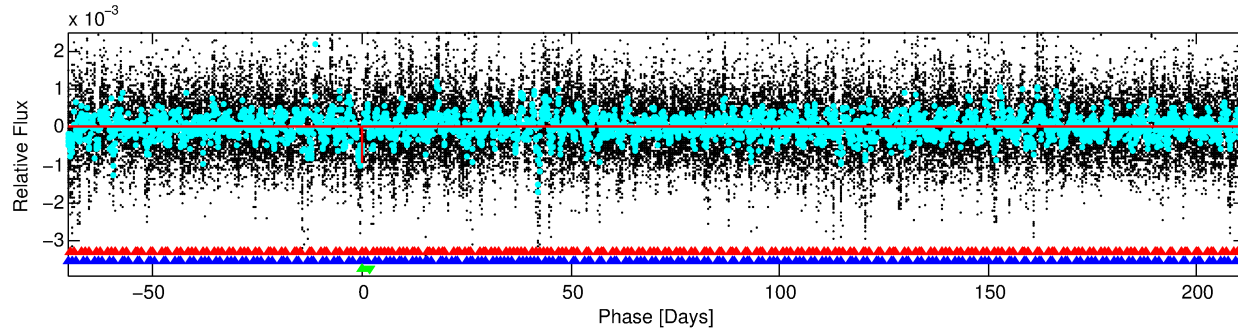
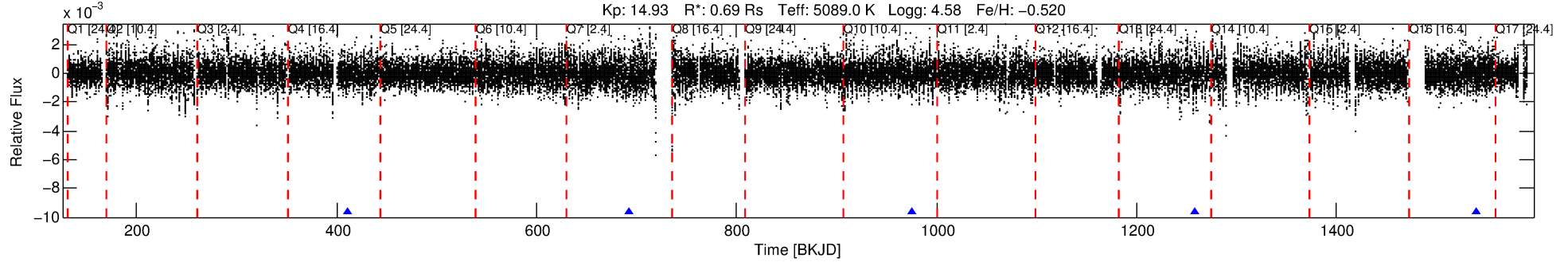
Ephemeris Match Information For 008460600-03

No Significant Match Found

DV One-Page Summary

KIC: 8460600 Candidate: 3 of 3 Period: 282.272 d
KOI: K01730 Corr: No Ephemeris Match

Kp: 14.93 R*: 0.69 Rs Teff: 5089.0 K Logg: 4.58 Fe/H: -0.520



DV Fit Results:

Period = 282.27170 [0.00750] d
Epoch = 410.9153 [0.0222] BKJD
Rp/R* = 0.0298 [0.0226]
a/R* = 174.24 [500.44]
b = 0.69 [2.23]
Seff = 0.53 [0.10]
Teq = 218 [10] K
Rp = 2.26 [1.73] Re
a = 0.7356 [0.0657] AU
Ag = 16827.50 [27780.04] [0.61σ]
Teffp = 3837 [1583] K [2.29σ]

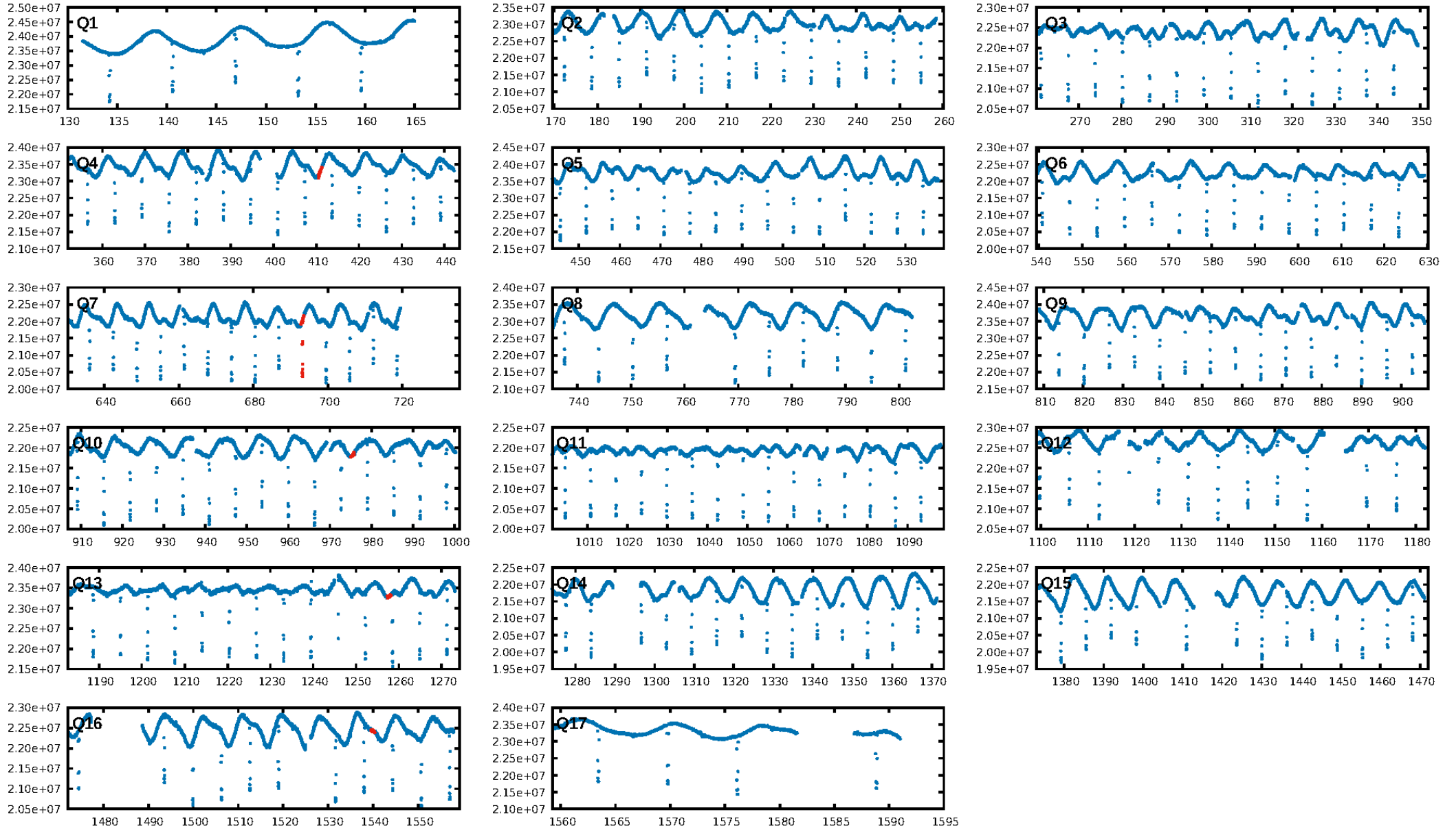
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [644.08σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 8.6%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: 4.64e-13
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.9077
Centroid-sig: 0.1%
Centroid-so: 4.759 arcsec [3.72σ]
OotOffset-rm: 4.680 arcsec [1.39σ]
KicOffset-rm: 0.173 arcsec [0.28σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.20 [1/5]

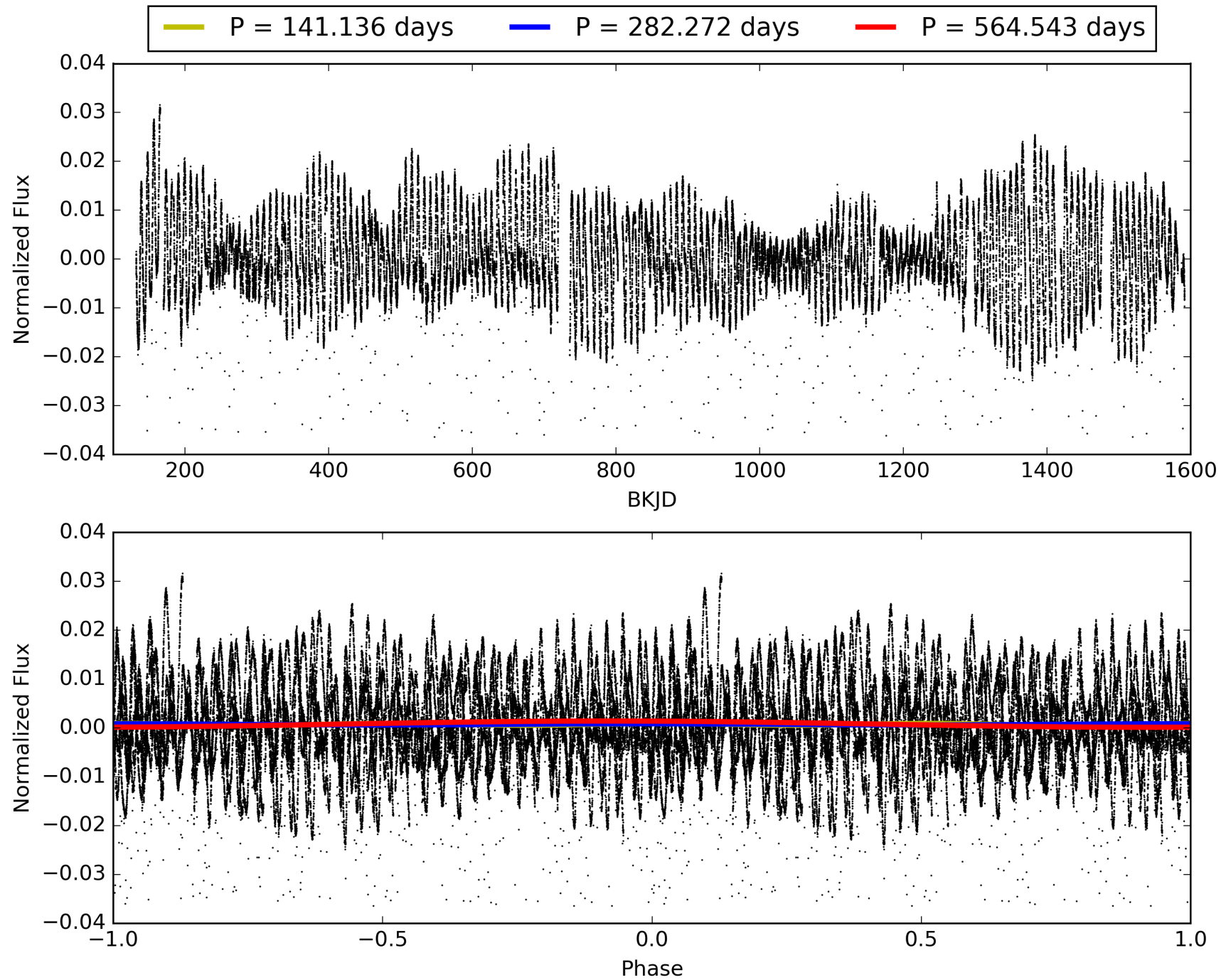
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 17:09:22 Z

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

TCE 008460600-03, PDC Light Curves

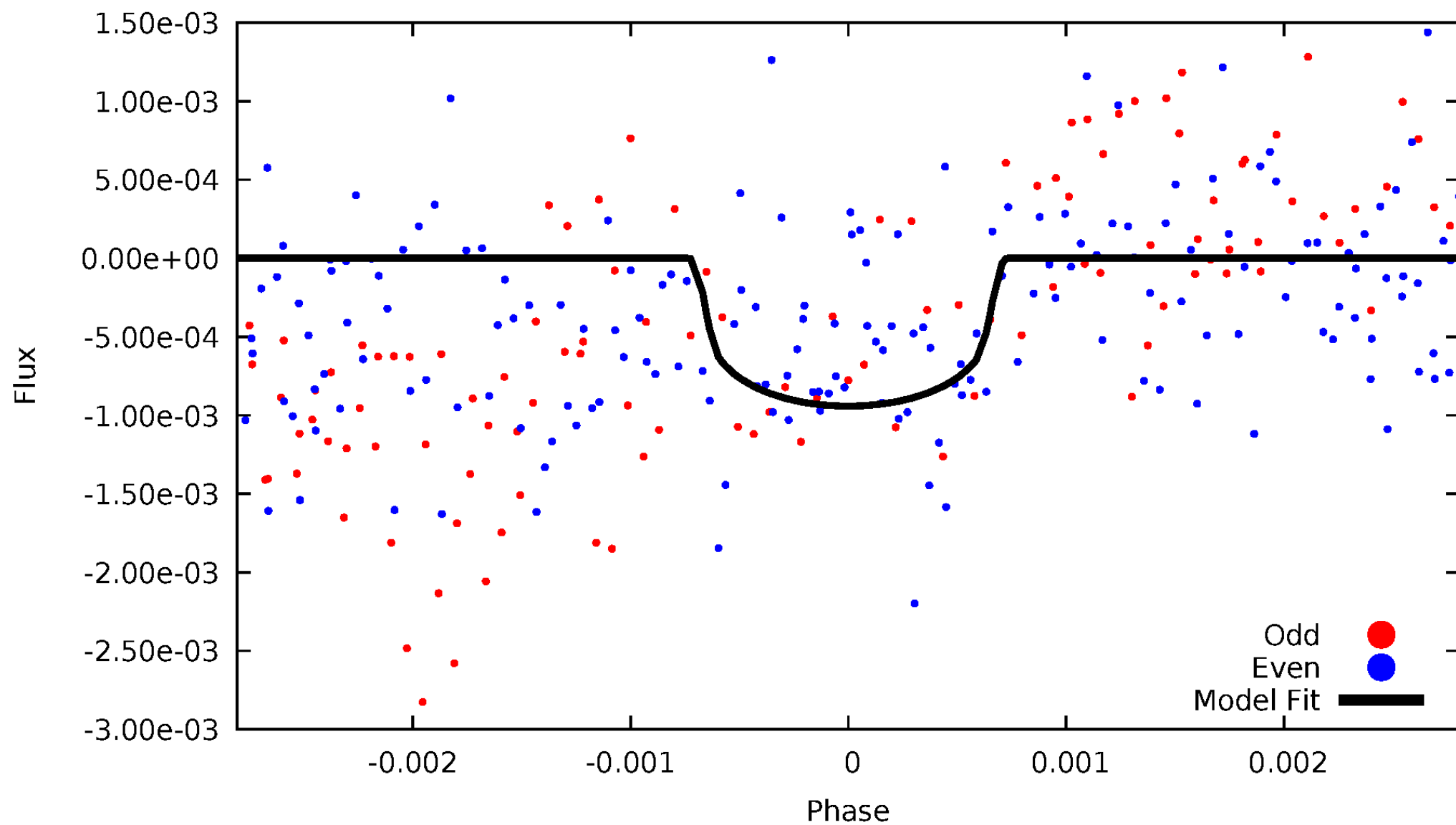


TCE 008460600-03



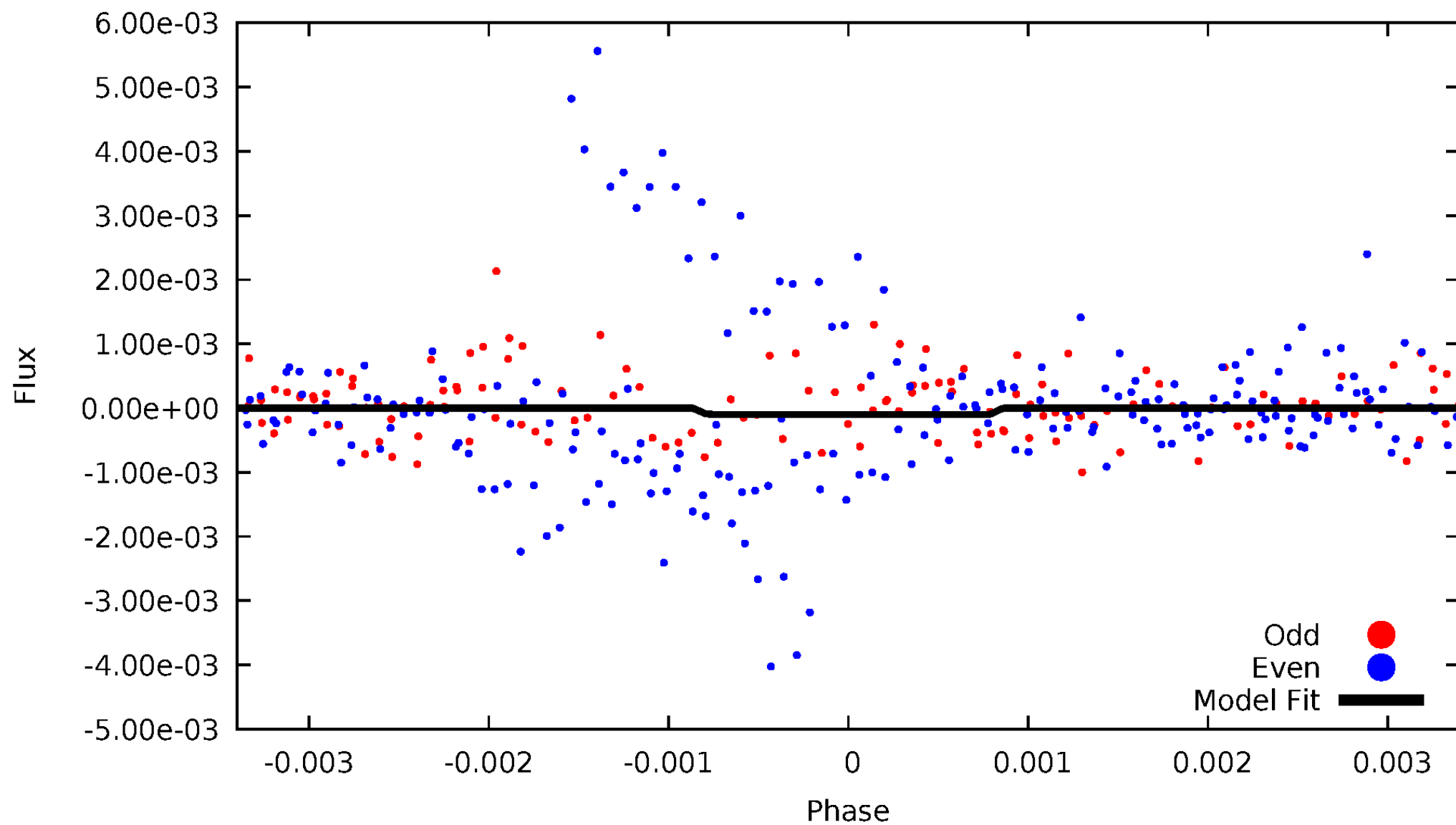
DV Odd/Even

TCE 008460600-03



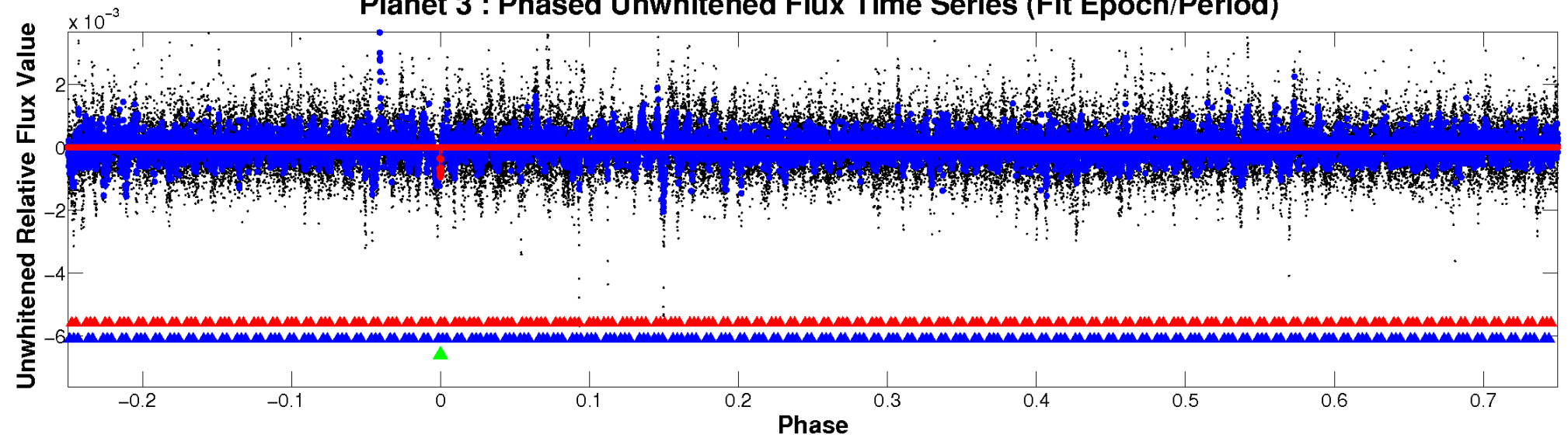
ALT Odd/Even

TCE 008460600-03

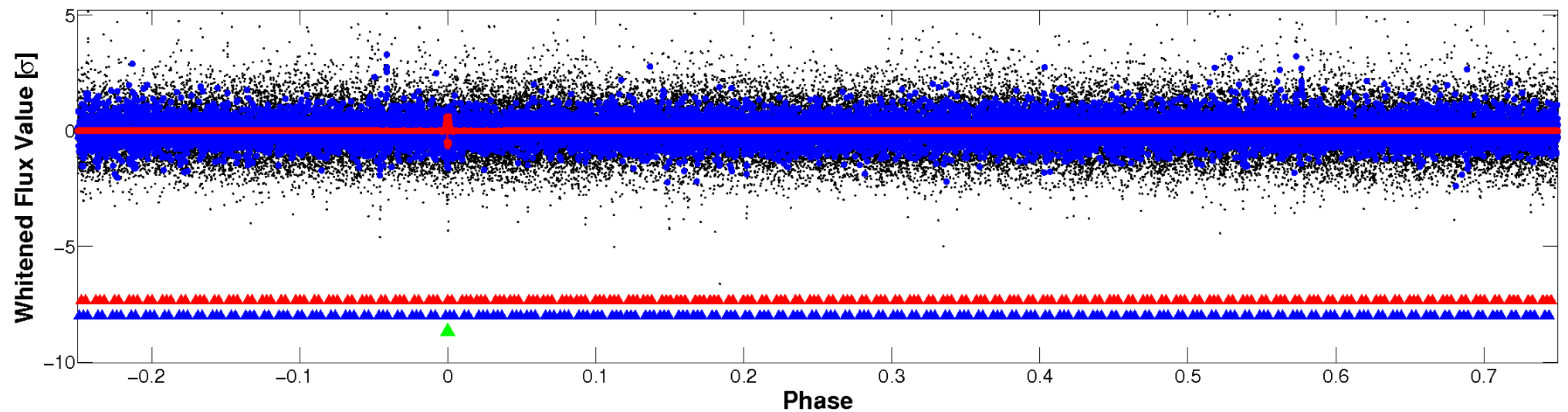


Non-Whitened Vs. Whitened Light Curve

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

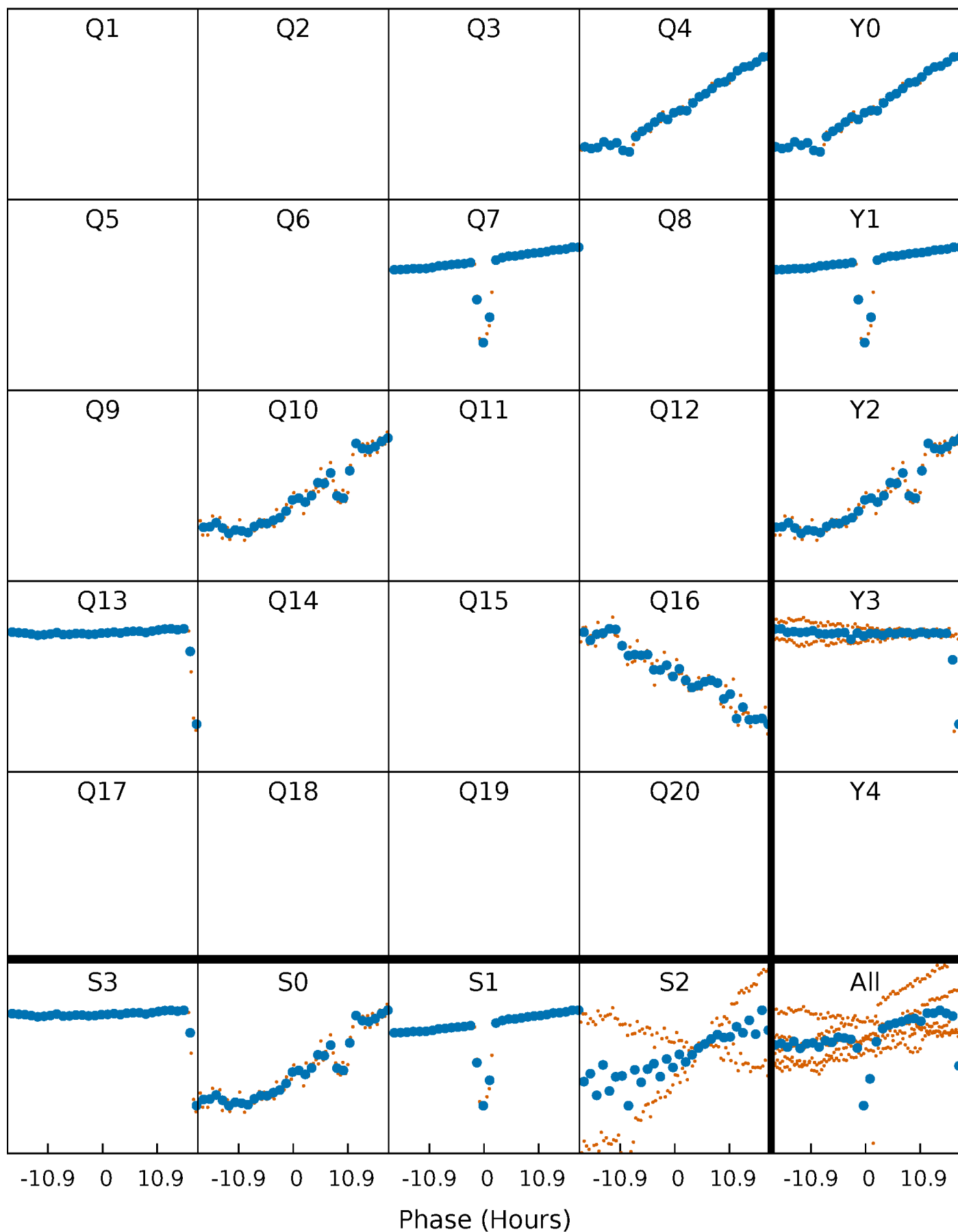


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



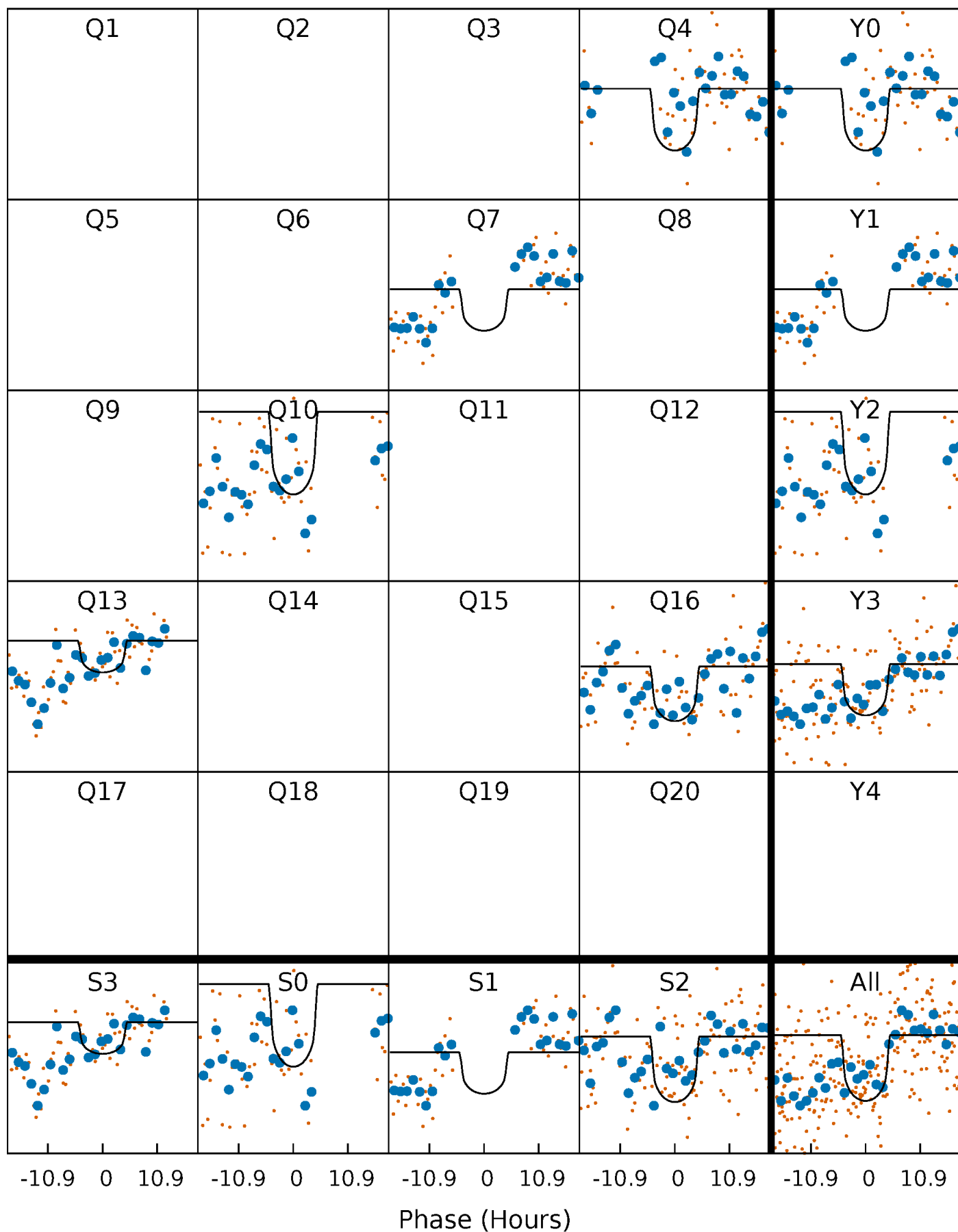
PDC Quarter-Phased Transit Curves

TCE 008460600-03 $P=282.271700$ Days $T_0=410.915329$ (BKJD)



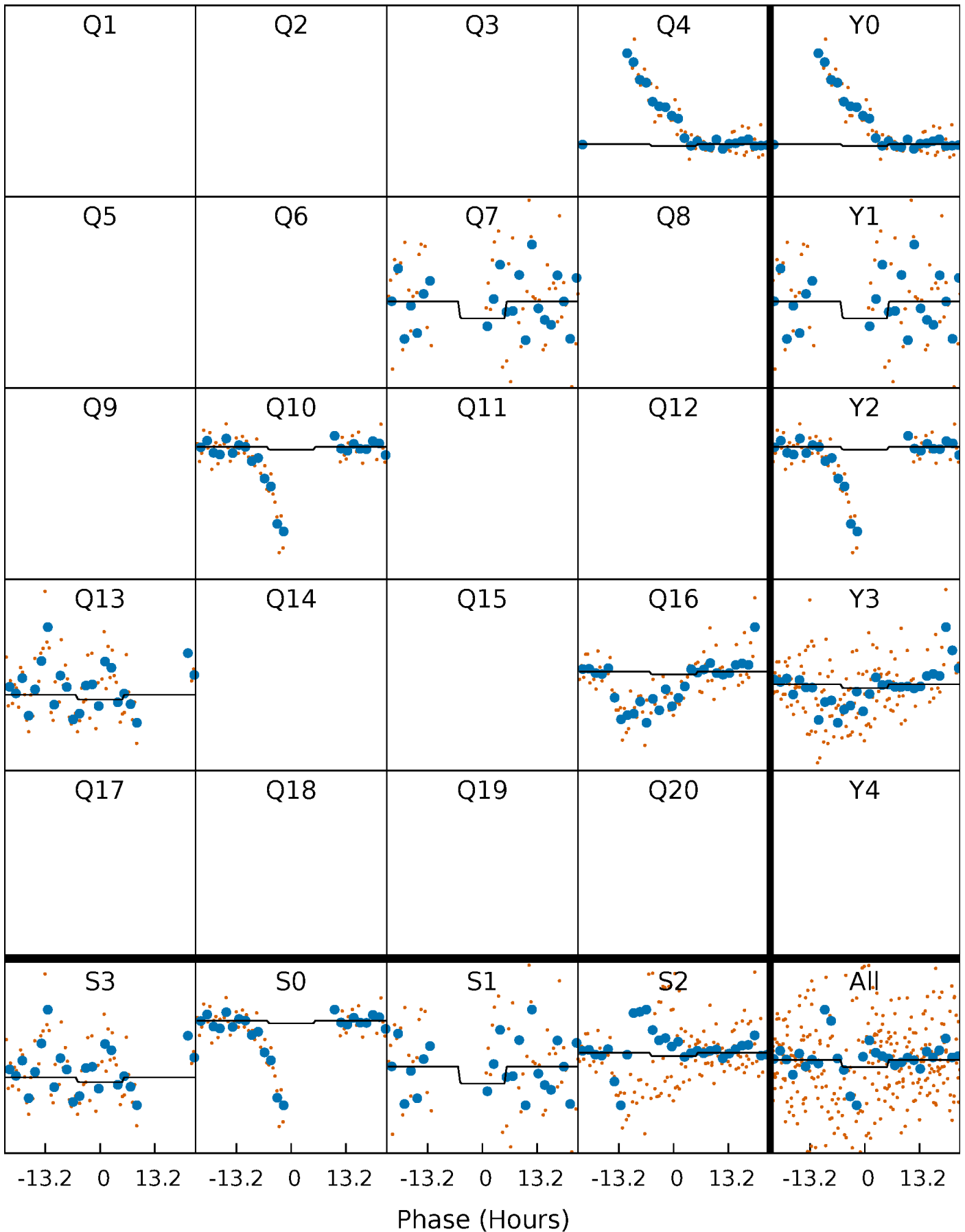
DV Quarter-Phased Transit Curves

TCE 008460600-03 $P=282.271700$ Days $T_0=410.915329$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

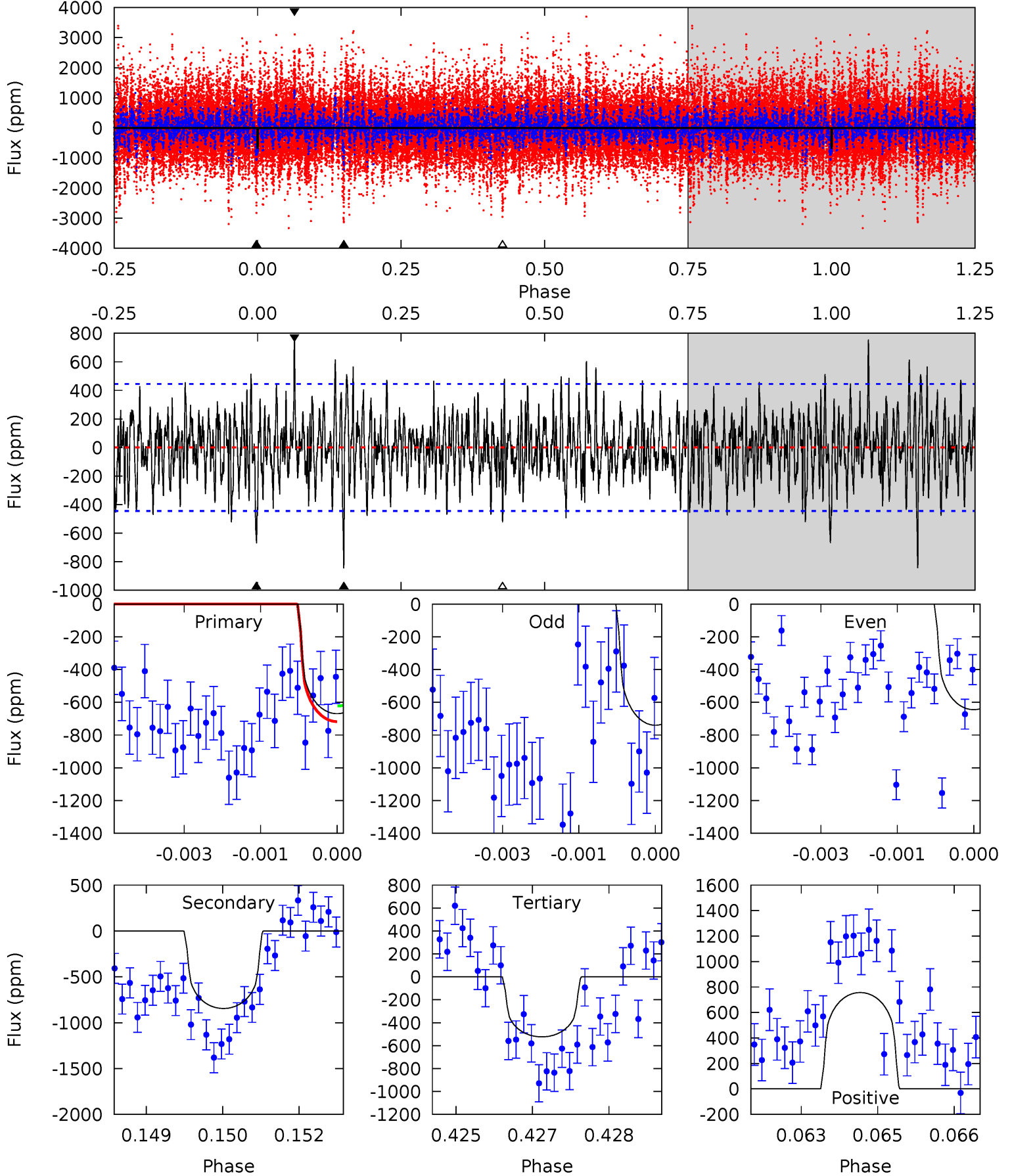
TCE 008460600-03 $P=282.228331$ Days $T_0=411.209630$ (BKJD)



DV Model-Shift Uniqueness Test

008460600-03, P = 282.271700 Days, E = 128.643629 Days

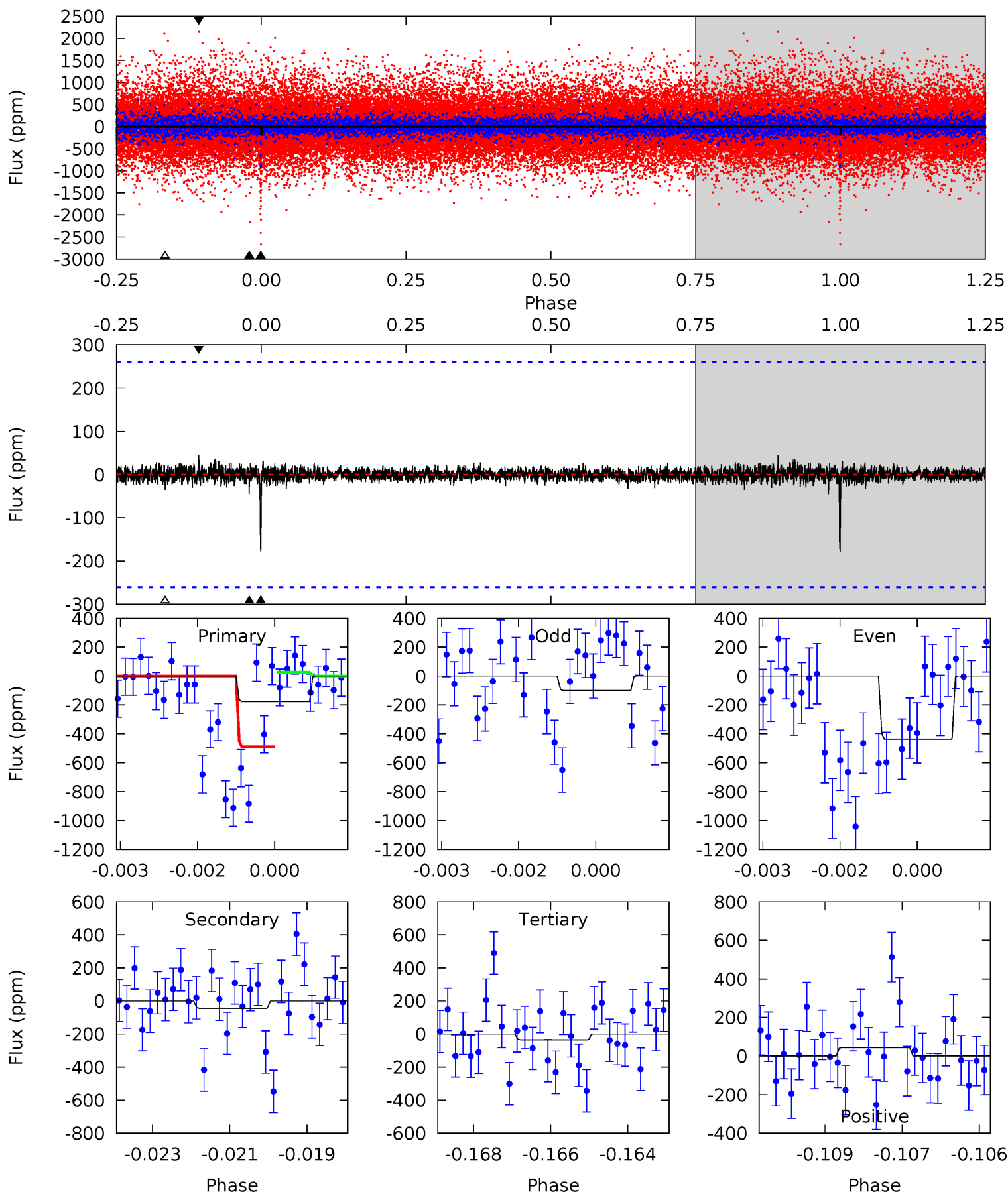
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.11	10.2	6.35	9.17	5.39	3.19	2.20	1.77	-1.05	3.90	1.07	0.48	0.90	0.47	0.58



Alt Model-Shift Uniqueness Test

008460600-03, P = 282.228331 Days, E = 128.981299 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.66	0.92	0.72	0.90	5.35	3.13	0.17	2.94	2.76	0.20	0.02	3.41	-95.8	0.20	4.69



Stellar Parameters For KIC 008460600

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5089^{+154}_{-138}	$4.580^{+0.072}_{-0.048}$	$-0.520^{+0.300}_{-0.300}$	$0.693^{+0.073}_{-0.067}$	$0.666^{+0.087}_{-0.037}$	$2.818^{+0.888}_{-0.470}$
	+3%/-3%	+2%/-1%	+58%/-58%	+11%/-10%	+13%/-6%	+32%/-17%
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 008460600-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-845 ± 83	$2.52^{+1.62}_{-1.48}$	303^{+11}_{-11}	4832^{+2557}_{-845}	$41675^{+196456}_{-27162}$
Alt.	-45 ± 49	$1.54^{+1.27}_{-1.05}$	304^{+12}_{-11}	3259^{+1682}_{-5434}	4130^{+41447}_{-4337}

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

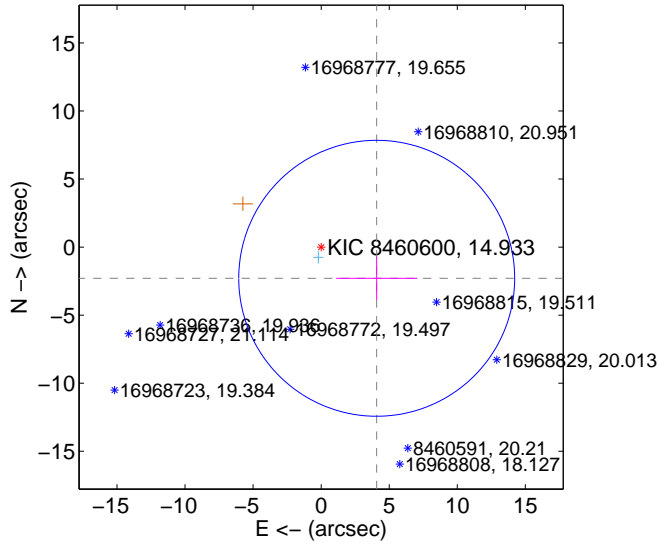
Supplemental centroid analysis for 008460600-03. Kepler magnitude: 14.93. Transit SNR 5.58

There are 2 quarters with good PRF difference image offsets

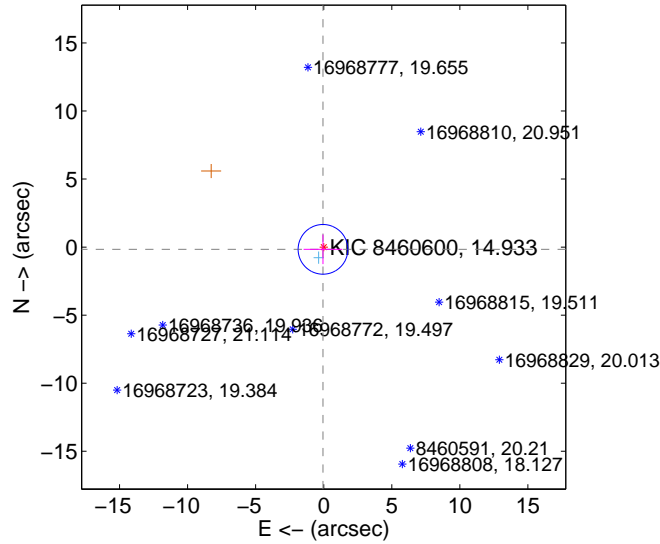
The OOT PRF centroid is offset from the target star catalog position by about 3.49 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.680 ± 3.379	1.39	-4.081 ± 2.985	-2.292 ± 1.593
PRF-fit source offset from KIC position	0.173 ± 0.609	0.28	0.054 ± 1.421	-0.164 ± 1.083
photometric centroid source offset	4.76 ± 1.28	3.72	2.99 ± 1.11	3.70 ± 1.38

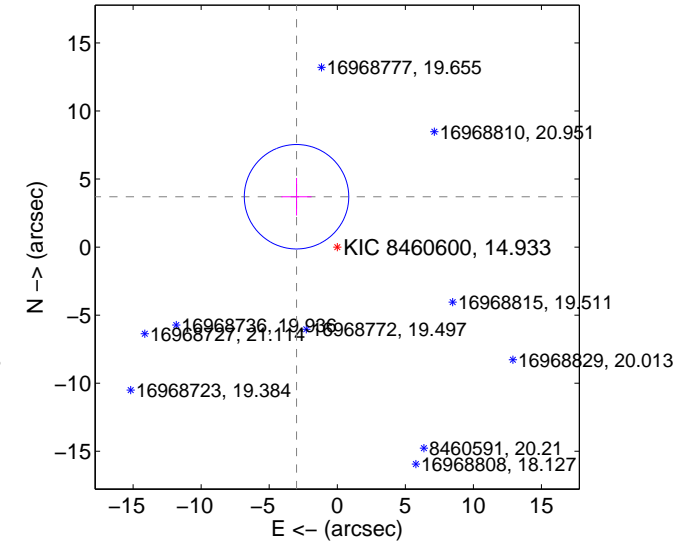
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

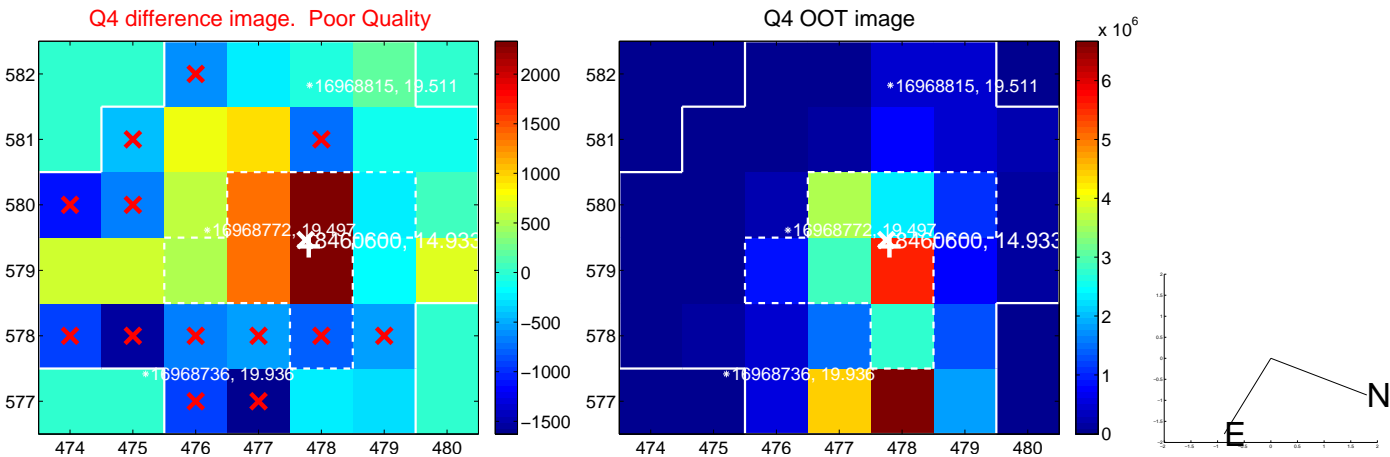


offset from photometric centroids

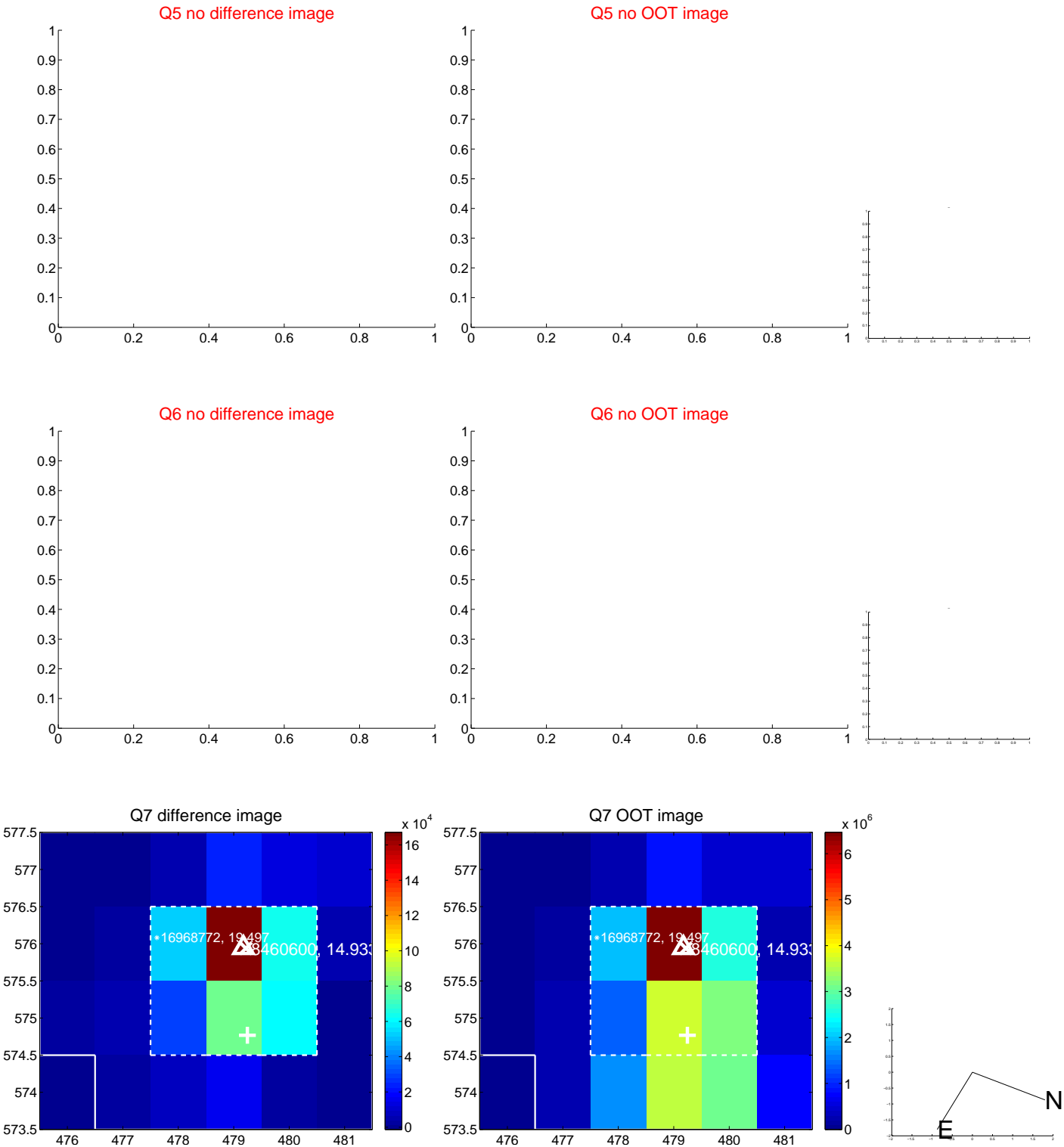


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

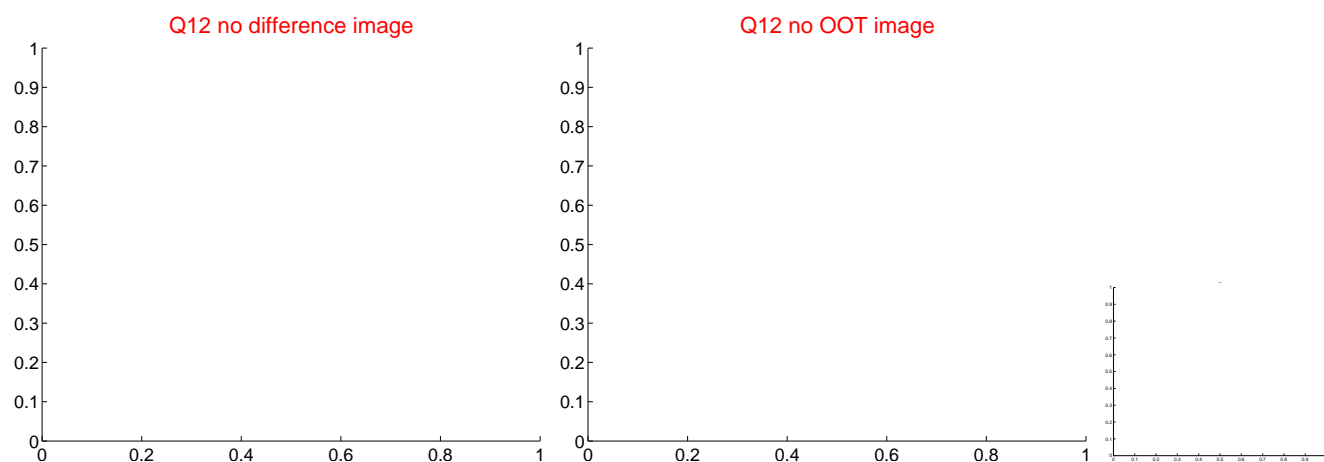
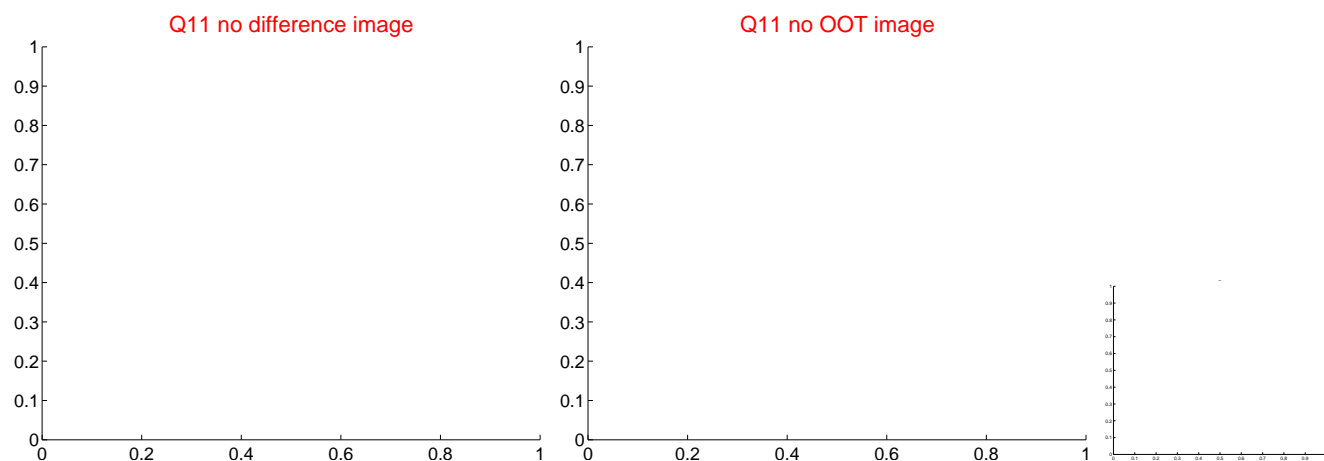
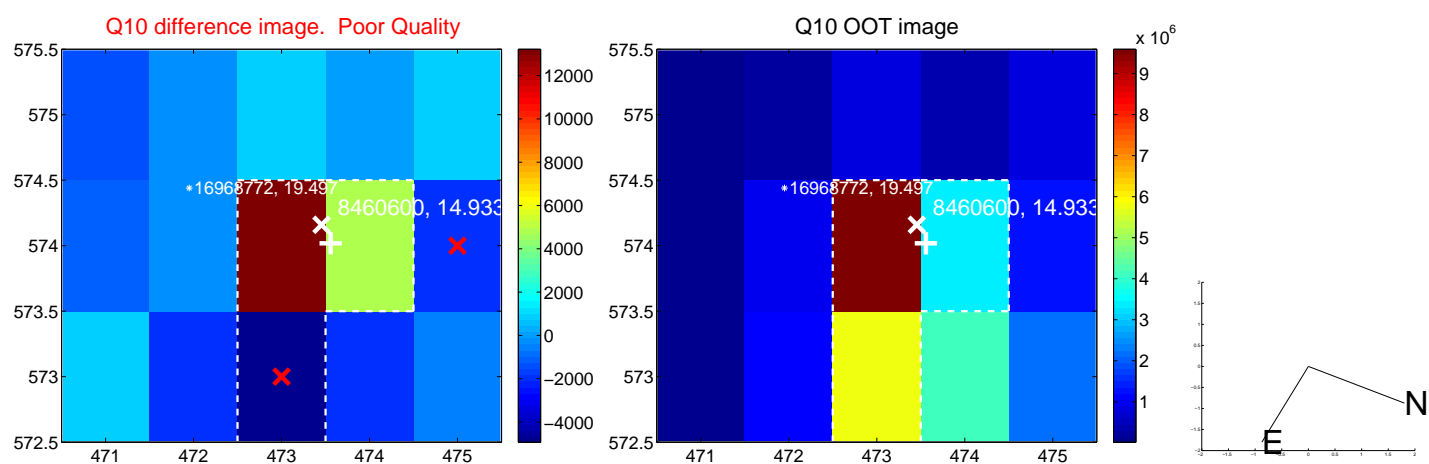
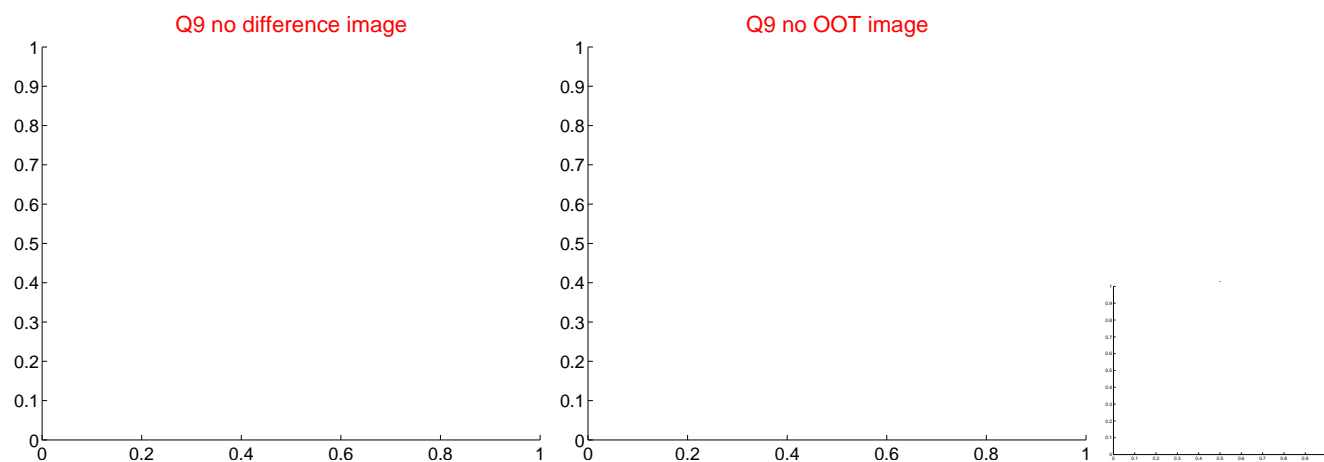
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



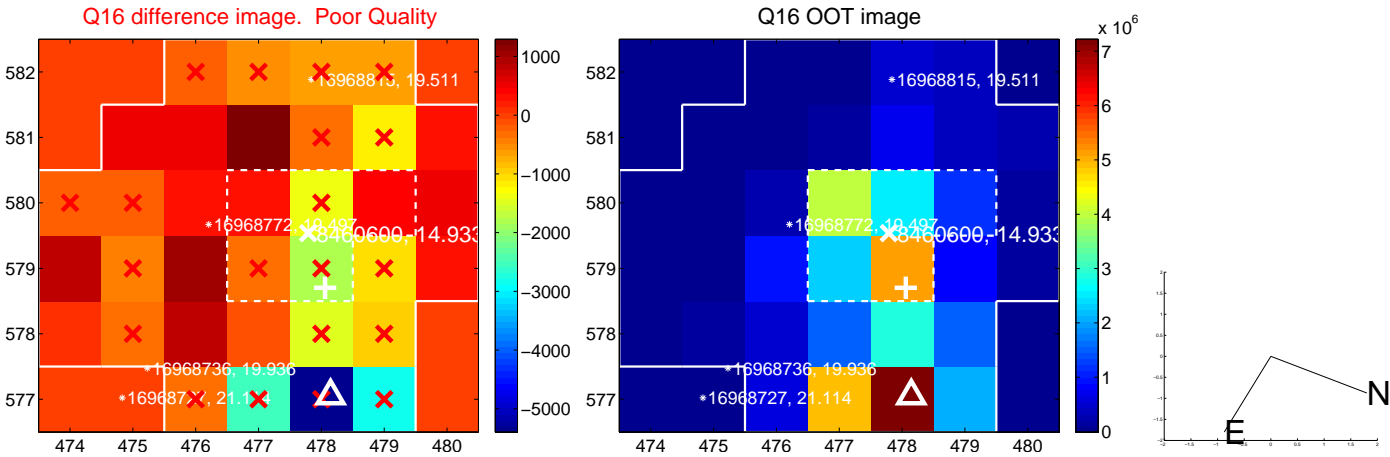
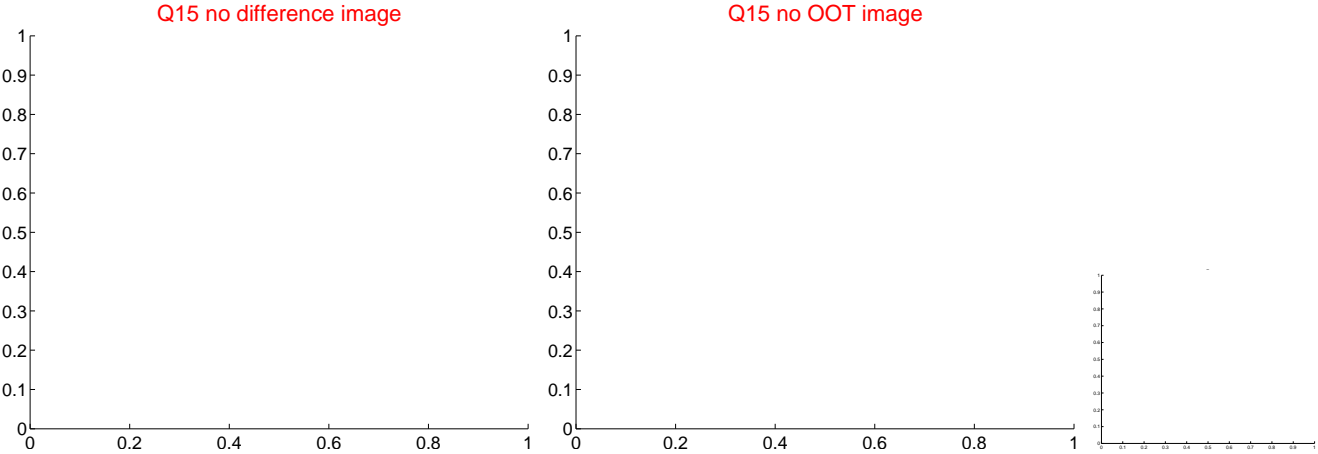
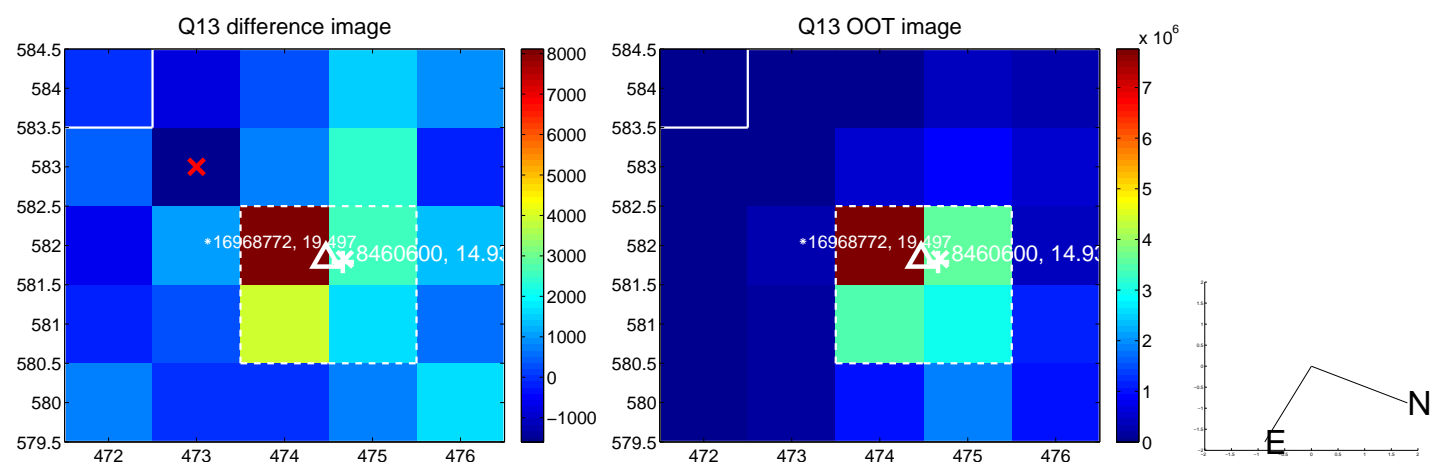
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



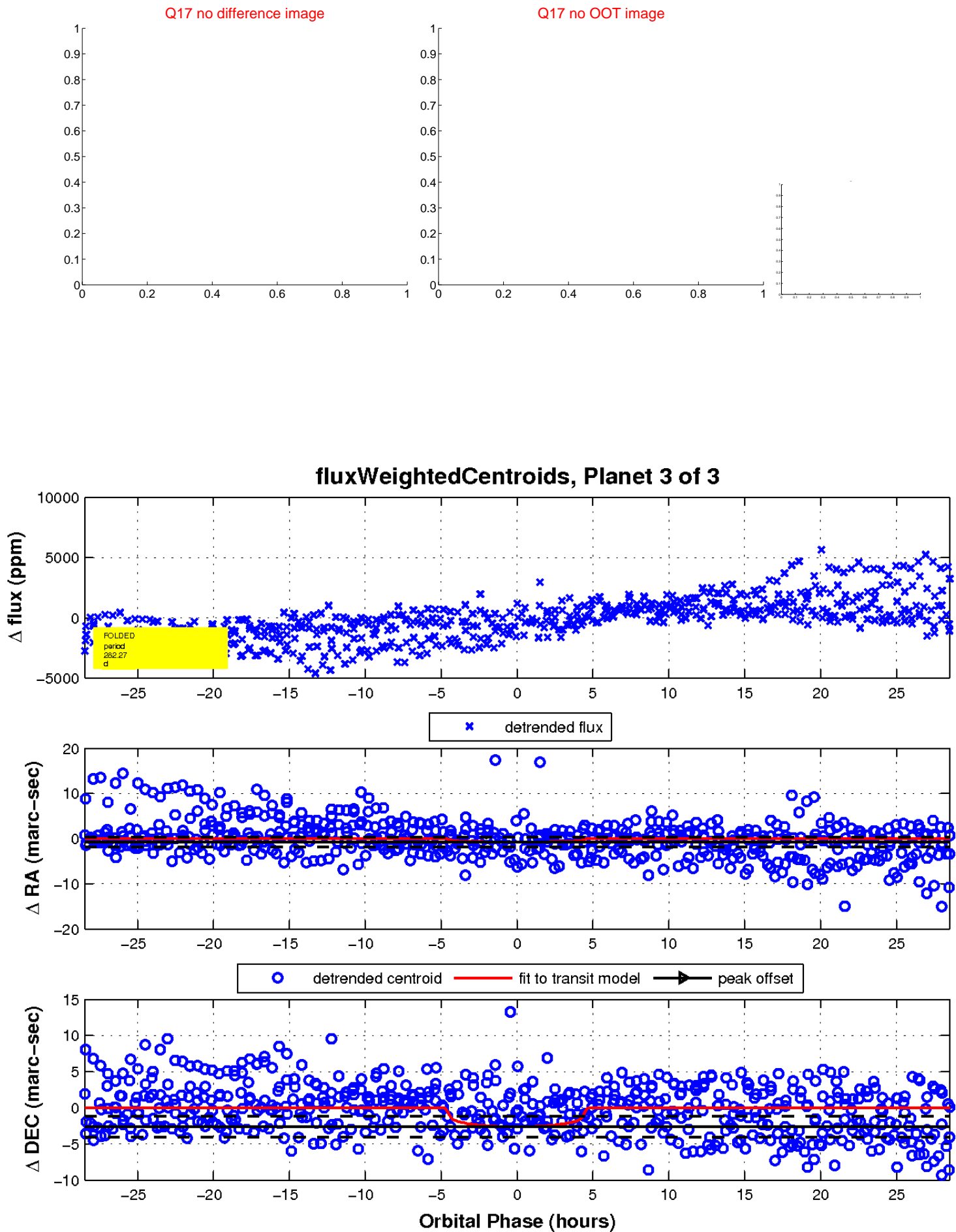
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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.



Declination