

KIC 006762923

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})
006762923-01	OBS	No	306.638418	251.577448	699.4	2.629	10.7	3.6	0.68	4261	2.22	0.22
006762923-02	OBS	No	383.094010	329.749905	2667.3	4.542	12.4	10.2	0.68	4261	7.09	0.17
006762923-03	OBS	No	398.143844	220.296278	1292.9	4.292	12.1	5.2	0.68	4261	2.71	0.16
006762923-04	OBS	No	362.532222	234.172605	1014.8	5.000	11.5	-1.0	0.68	4261	2.06	0.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006762923-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS— HALO_GHOST
006762923-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

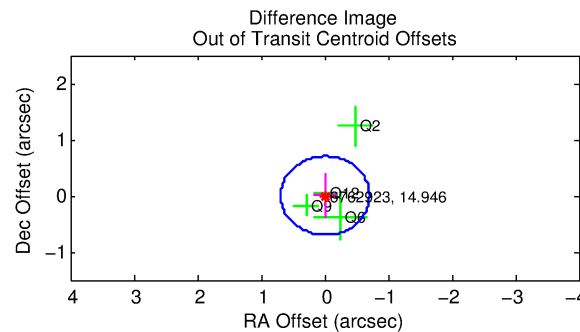
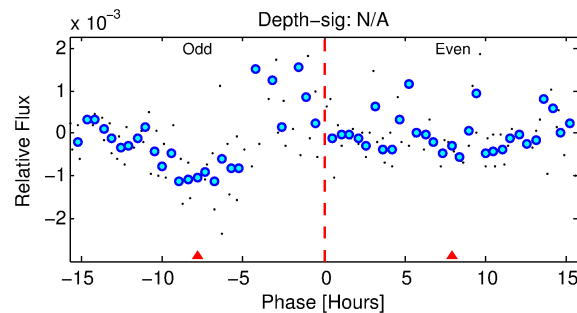
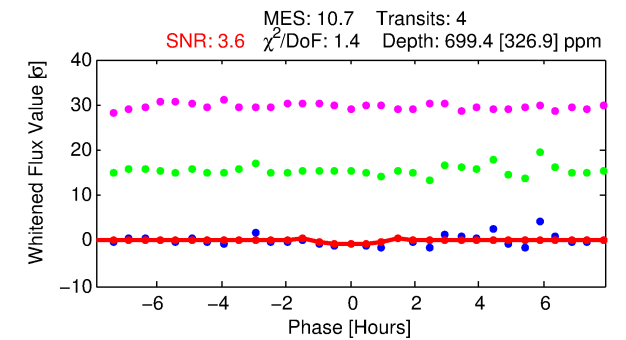
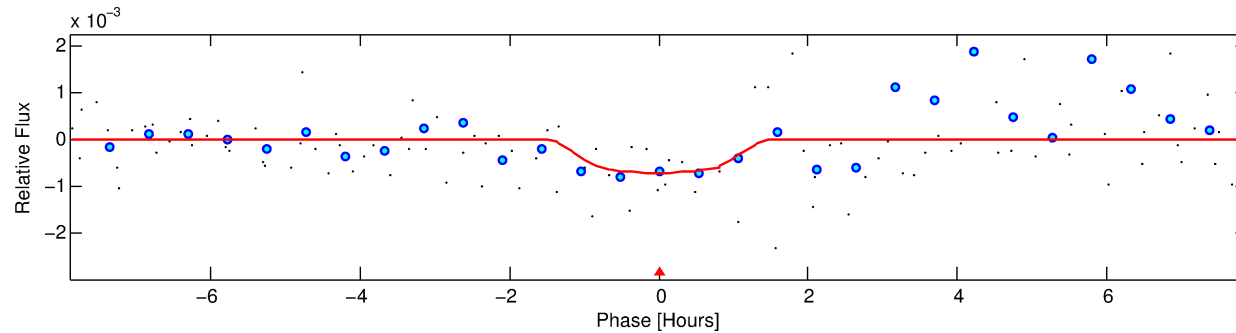
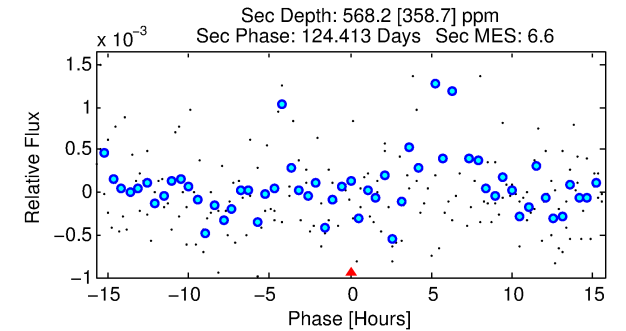
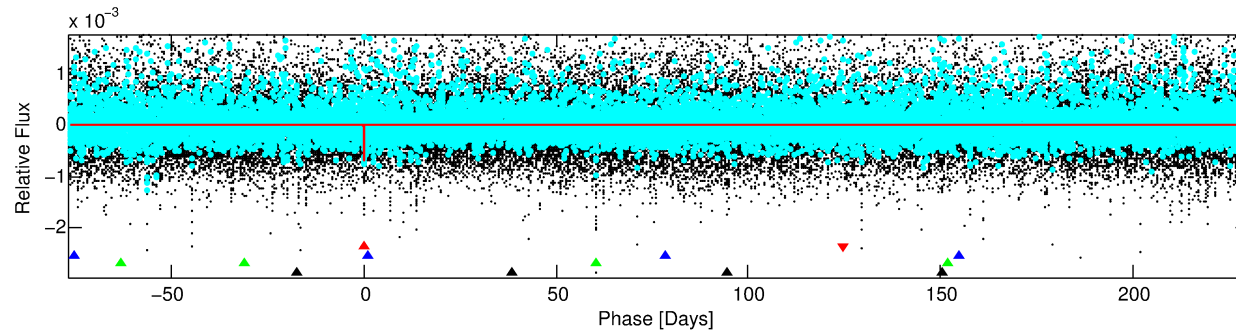
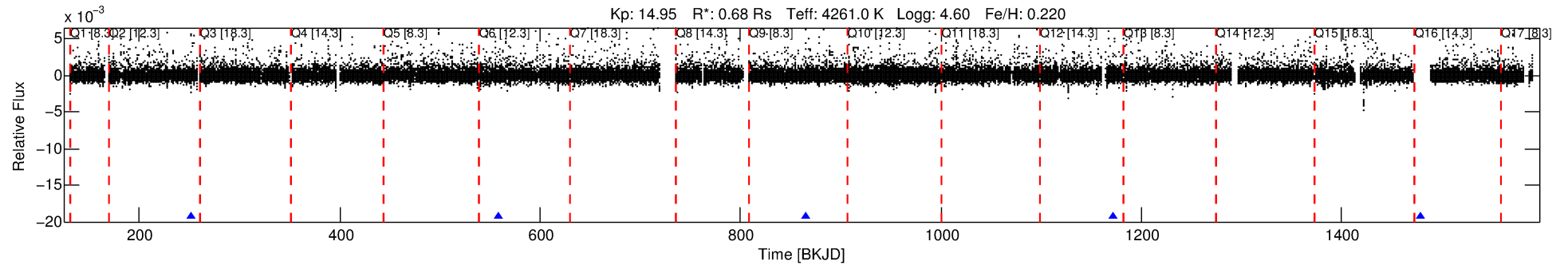
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006762923-01

No Significant Match Found

DV One-Page Summary

KIC: 6762923 Candidate: 1 of 4 Period: 306.638 d



DV Fit Results:

Period = 306.63842 [0.00934] d
Epoch = 251.5774 [0.0185] BKJD
Rp/R* = 0.0298 [0.0401]
a/R* = 457.96 [2021.01]
b = 0.89 [1.04]
Seff = 0.22 [0.04]
Teq = 175 [7] K
Rp = 2.22 [2.98] Re
a = 0.7814 [0.0536] AU
Ag = 38851.95 [107296.72] [0.36σ]
Teffp = 3809 [2631] K [1.38σ]

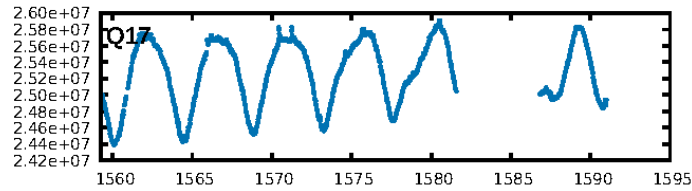
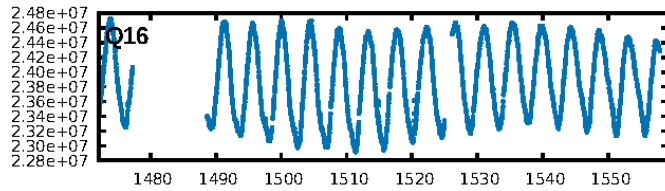
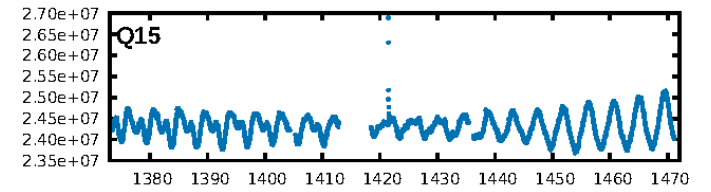
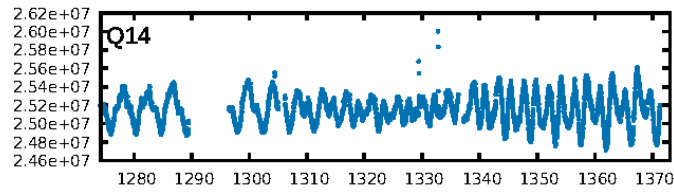
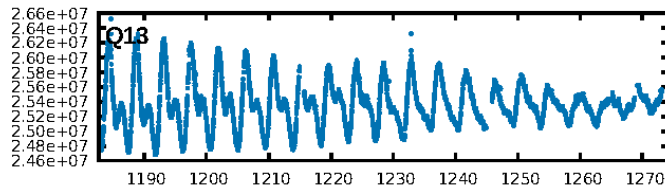
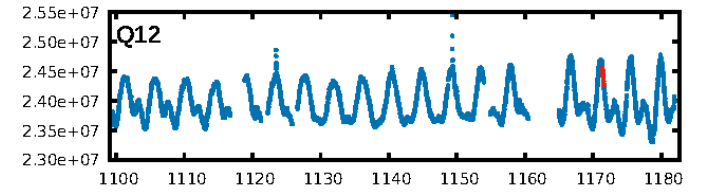
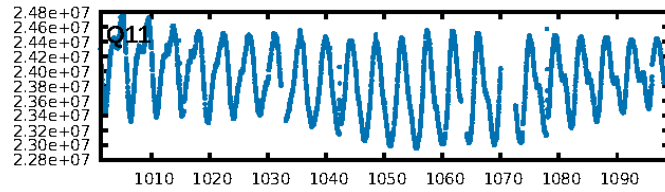
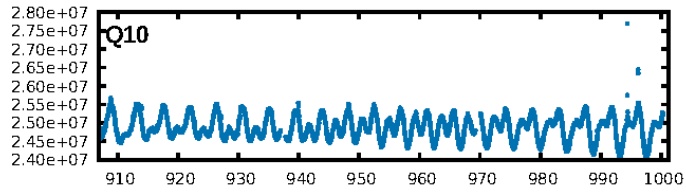
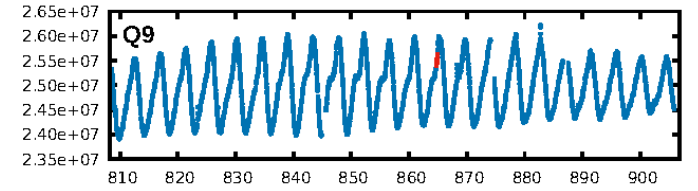
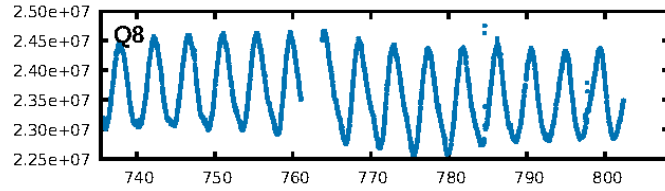
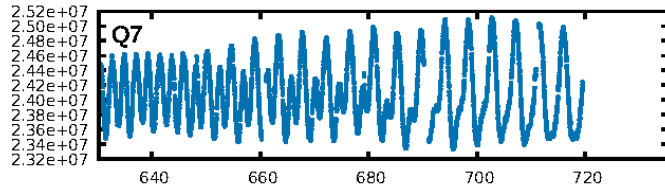
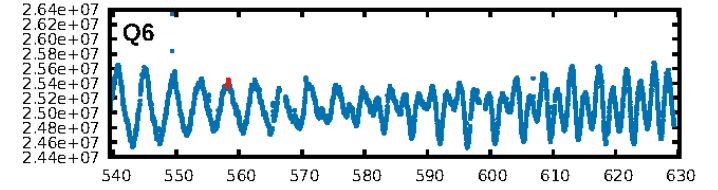
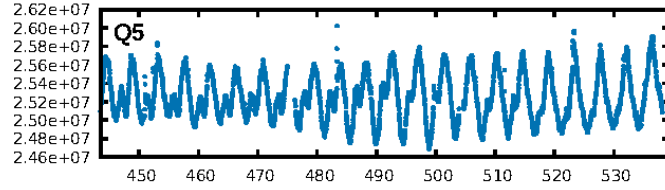
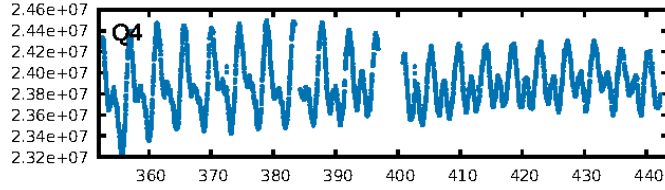
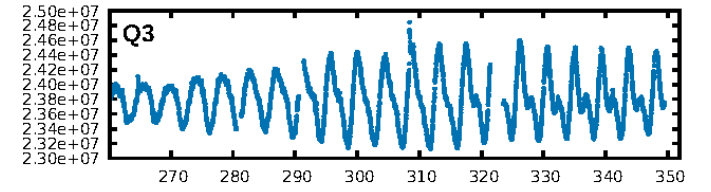
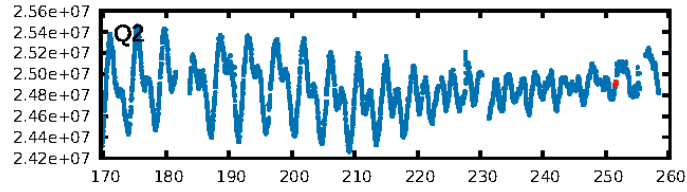
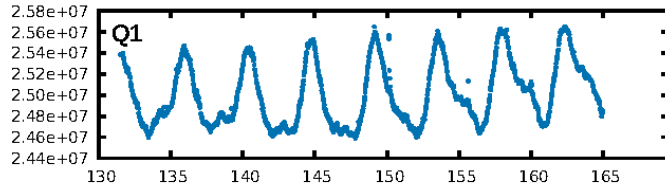
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [237.46σ]
ModelChiSquare2-sig: 13.0%
ModelChiSquareGof-sig: 93.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.2981
Centroid-sig: 6.5%
Centroid-so: 2.422 arcsec [1.28σ]
OotOffset-rm: 0.006 arcsec [0.02σ]
OotOffset-st: 2/0/1/1 [4]
KicOffset-rm: 0.231 arcsec [0.91σ]
KicOffset-st: 2/0/1/1 [4]
DiffImageQuality-fgm: 0.50 [2/4]
DiffImageOverlap-fno: 1.00 [4/4]

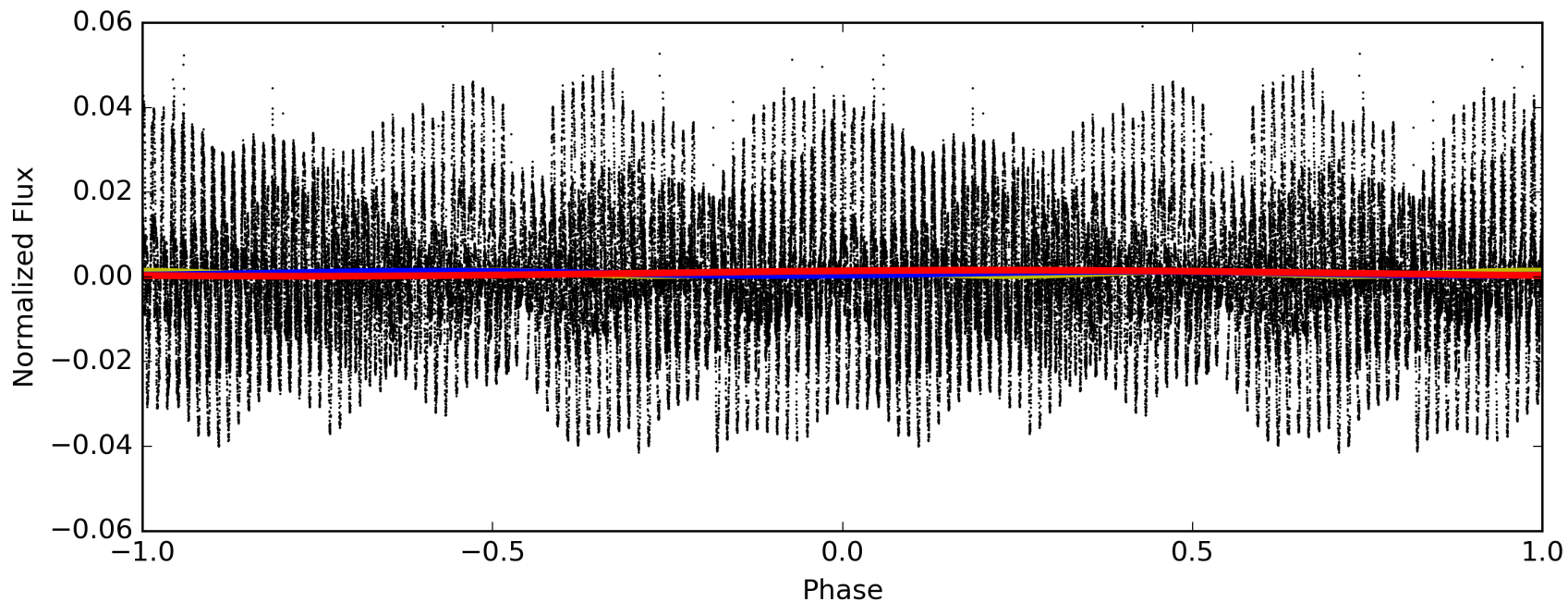
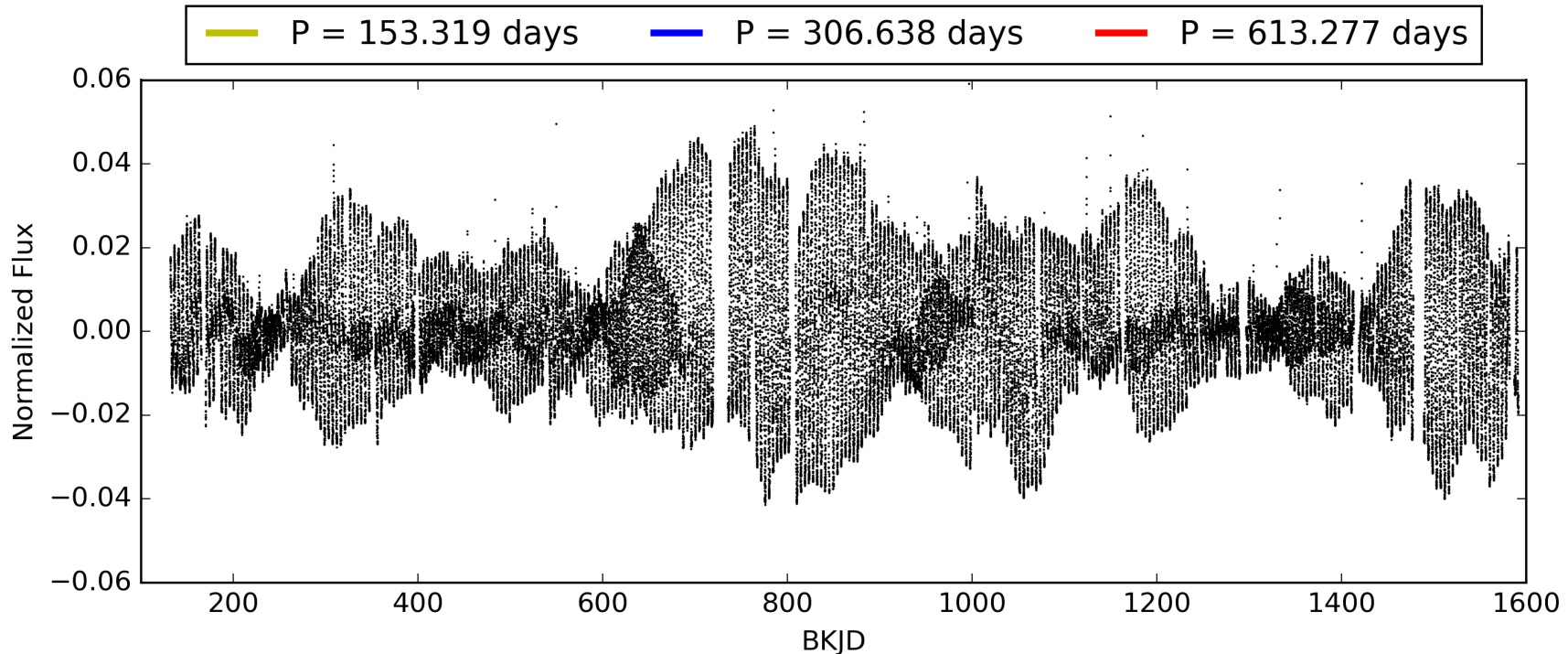
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:55:35 Z

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

TCE 006762923-01, PDC Light Curves

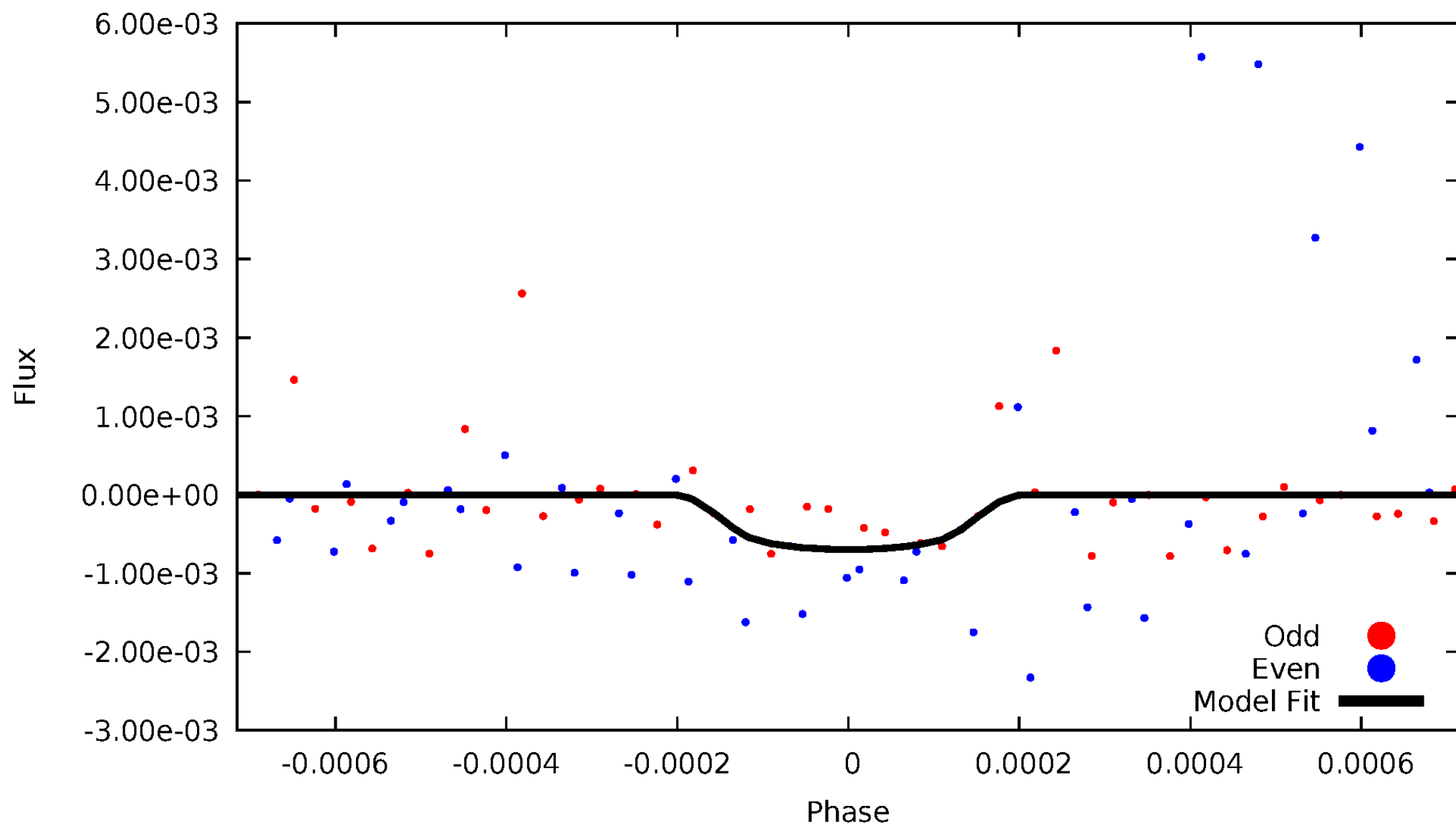


TCE 006762923-01



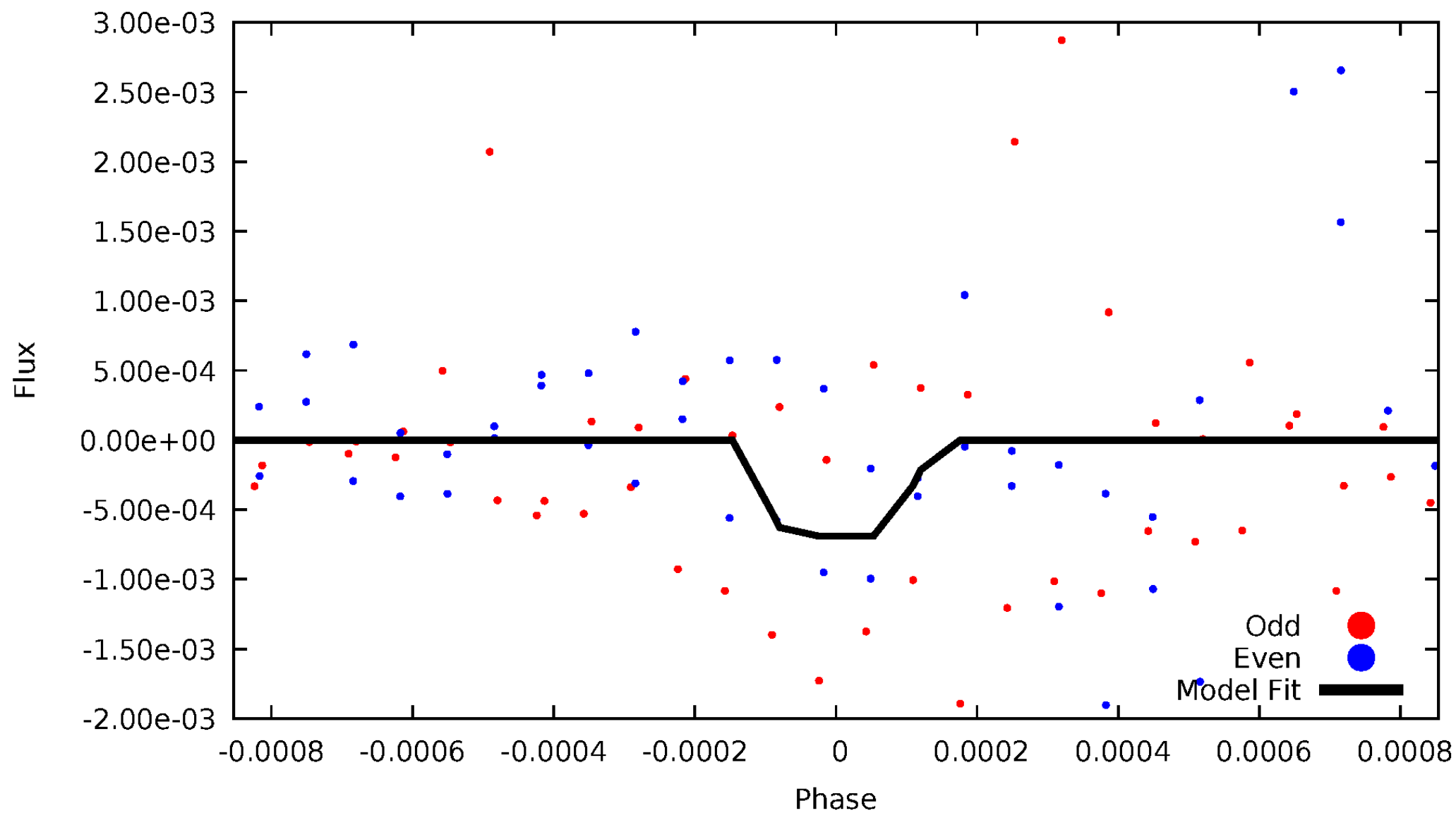
DV Odd/Even

TCE 006762923-01



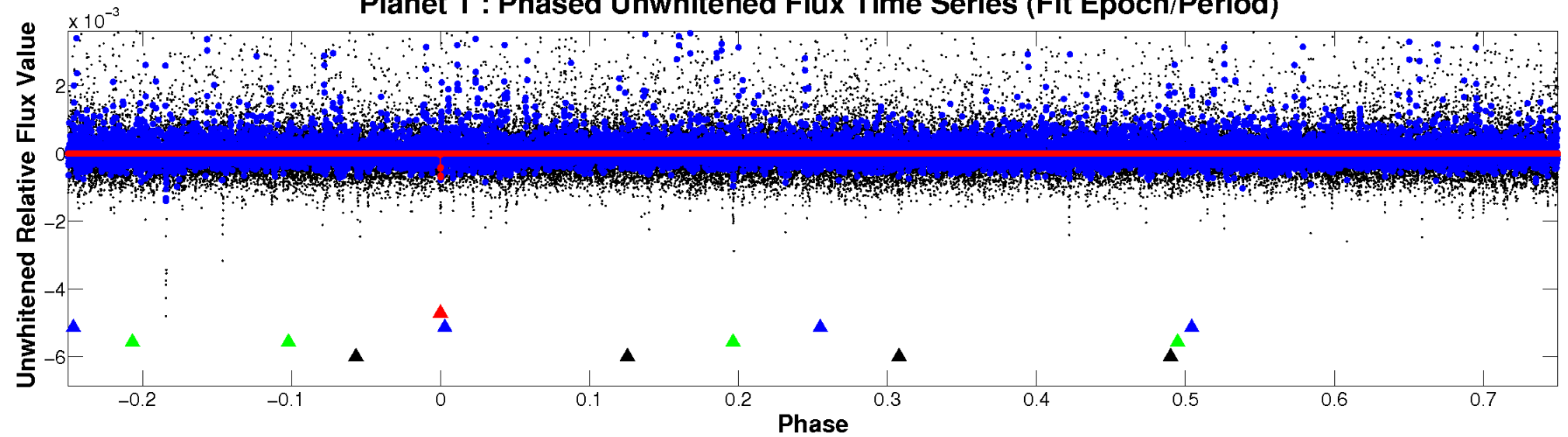
ALT Odd/Even

TCE 006762923-01

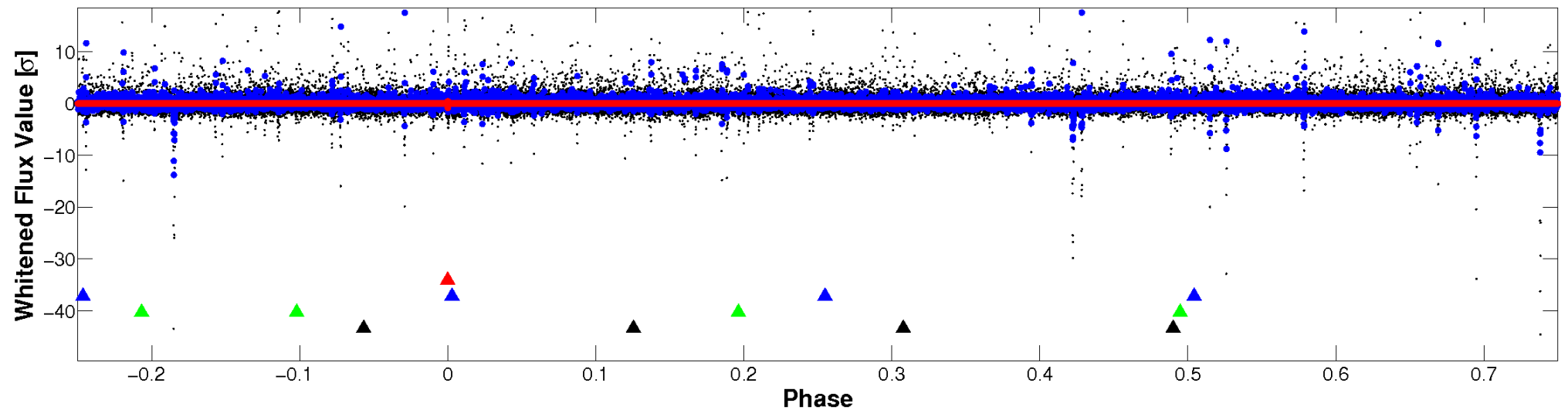


Non-Whitened Vs. Whitened Light Curve

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

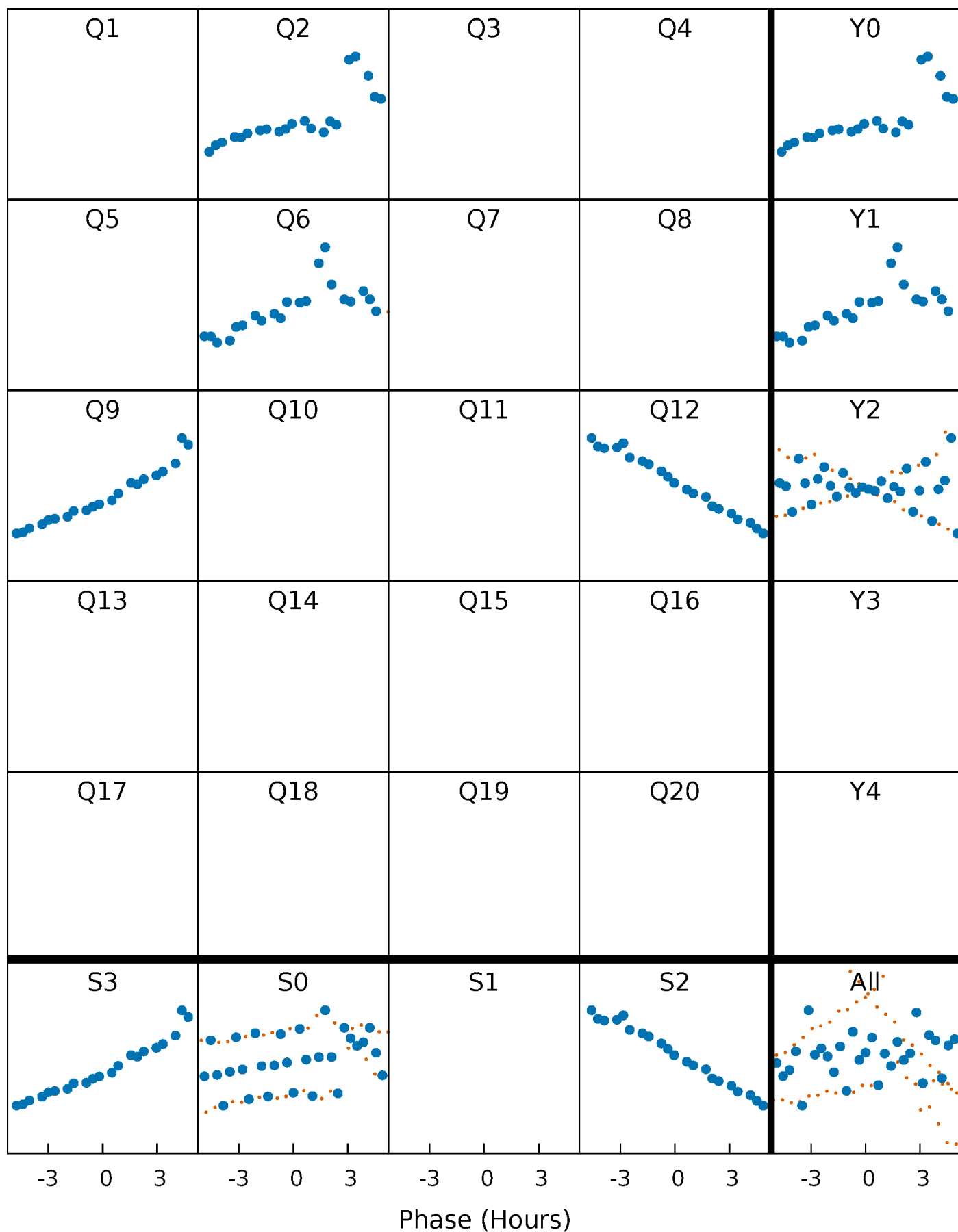


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



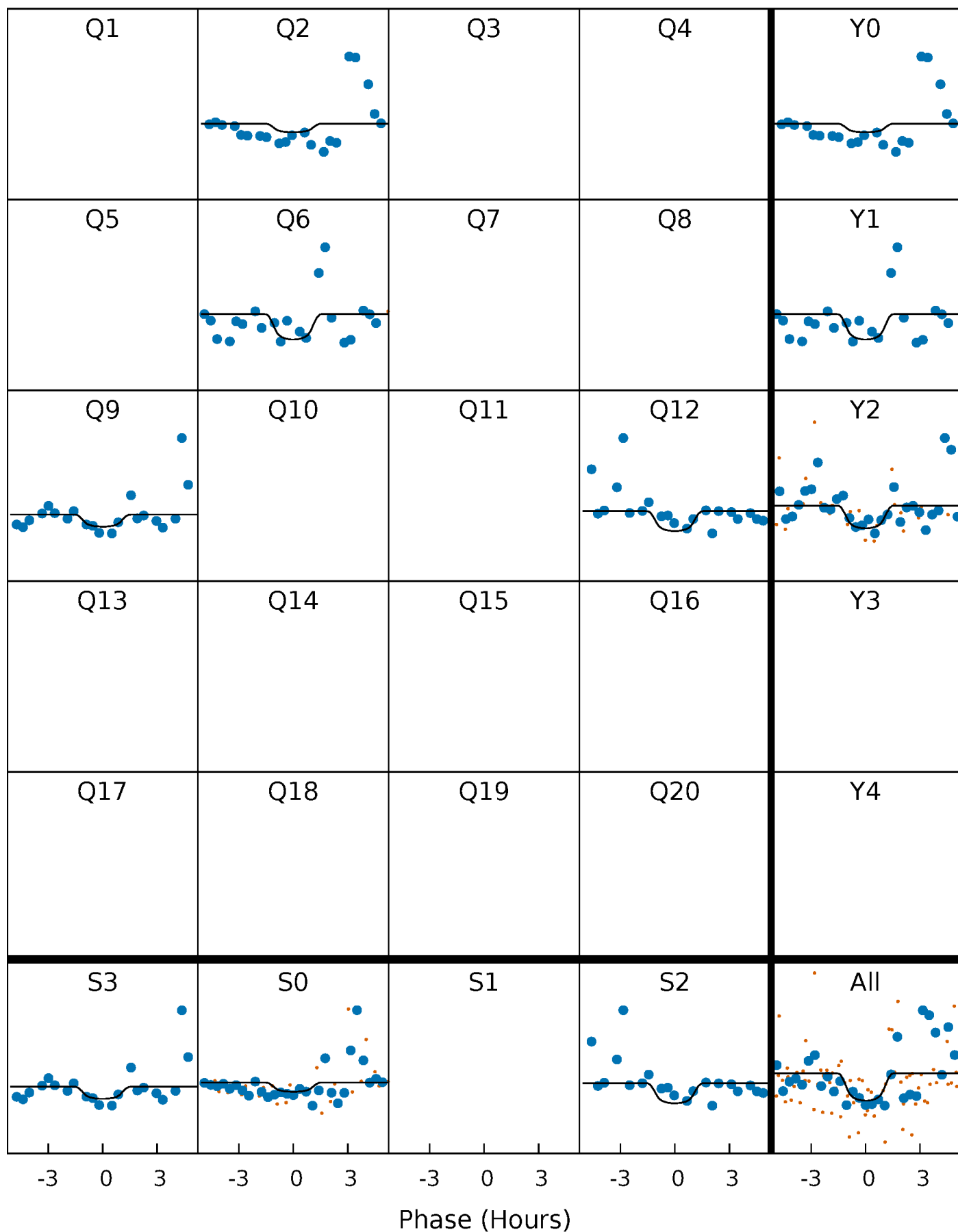
PDC Quarter-Phased Transit Curves

TCE 006762923-01 P=306.638418 Days $T_0=251.577448$ (BKJD)



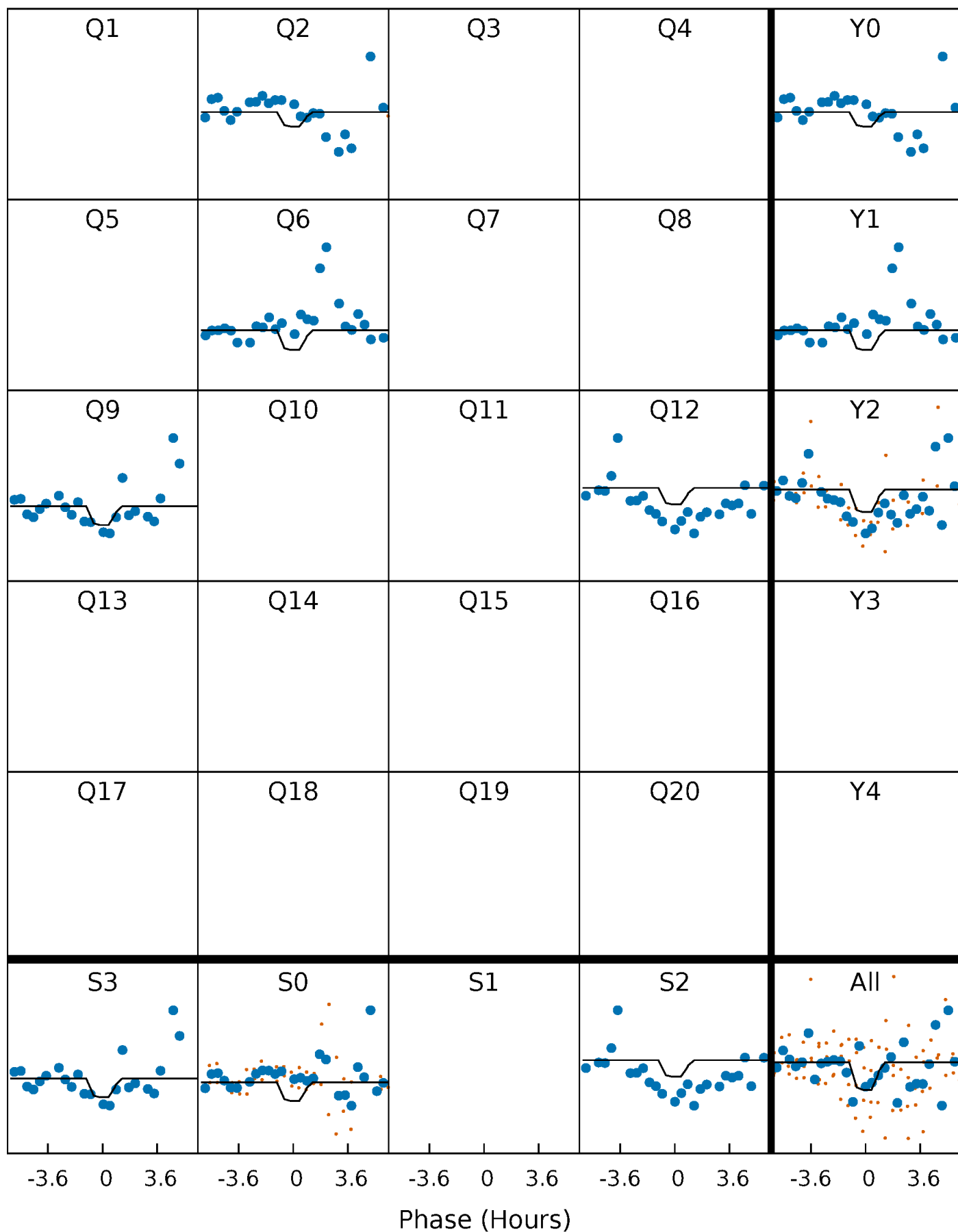
DV Quarter-Phased Transit Curves

TCE 006762923-01 P=306.638418 Days $T_0=251.577448$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

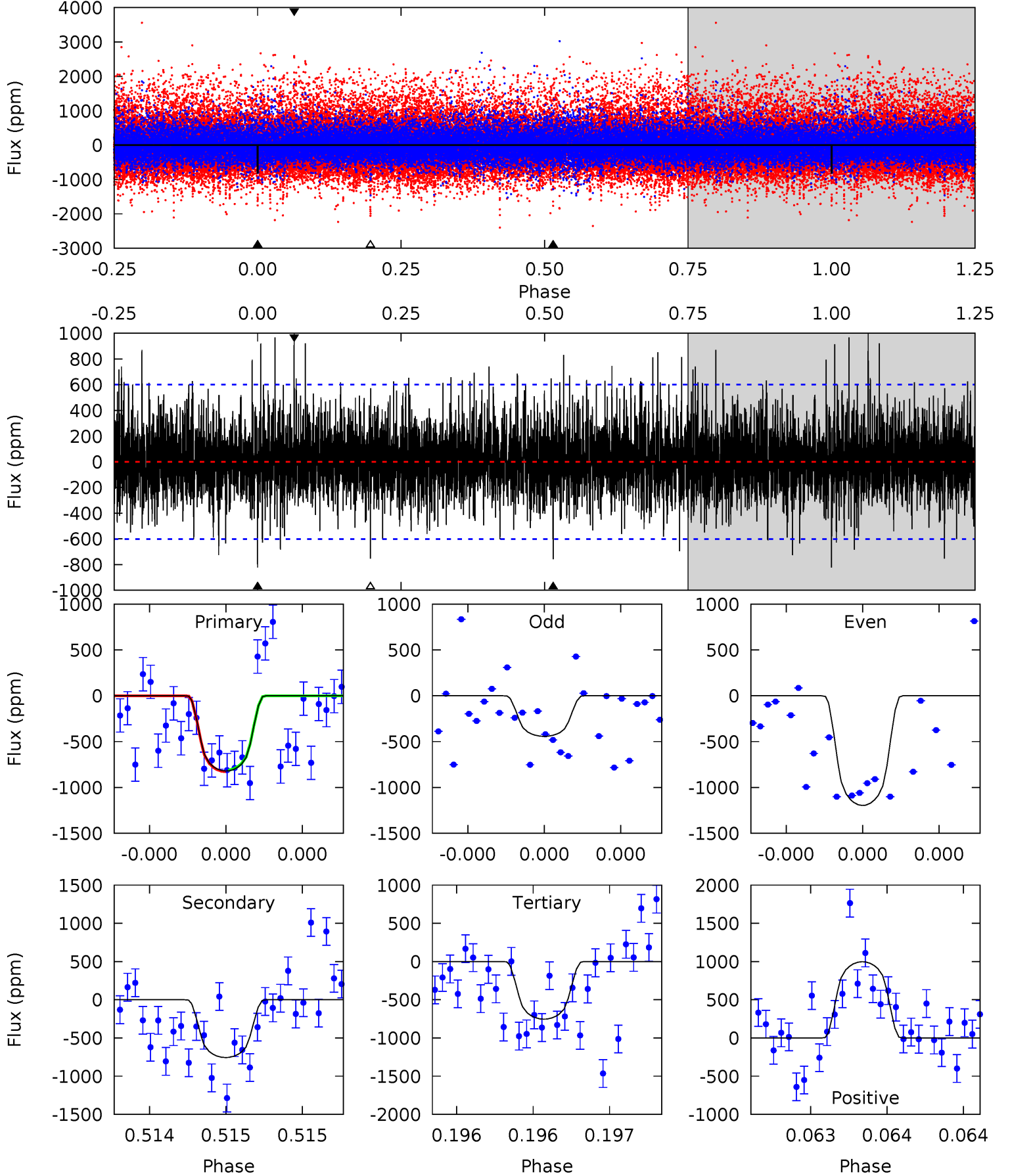
TCE 006762923-01 P=306.666869 Days $T_0=251.525463$ (BKJD)



DV Model-Shift Uniqueness Test

006762923-01, P = 306.638418 Days, E = 251.577448 Days

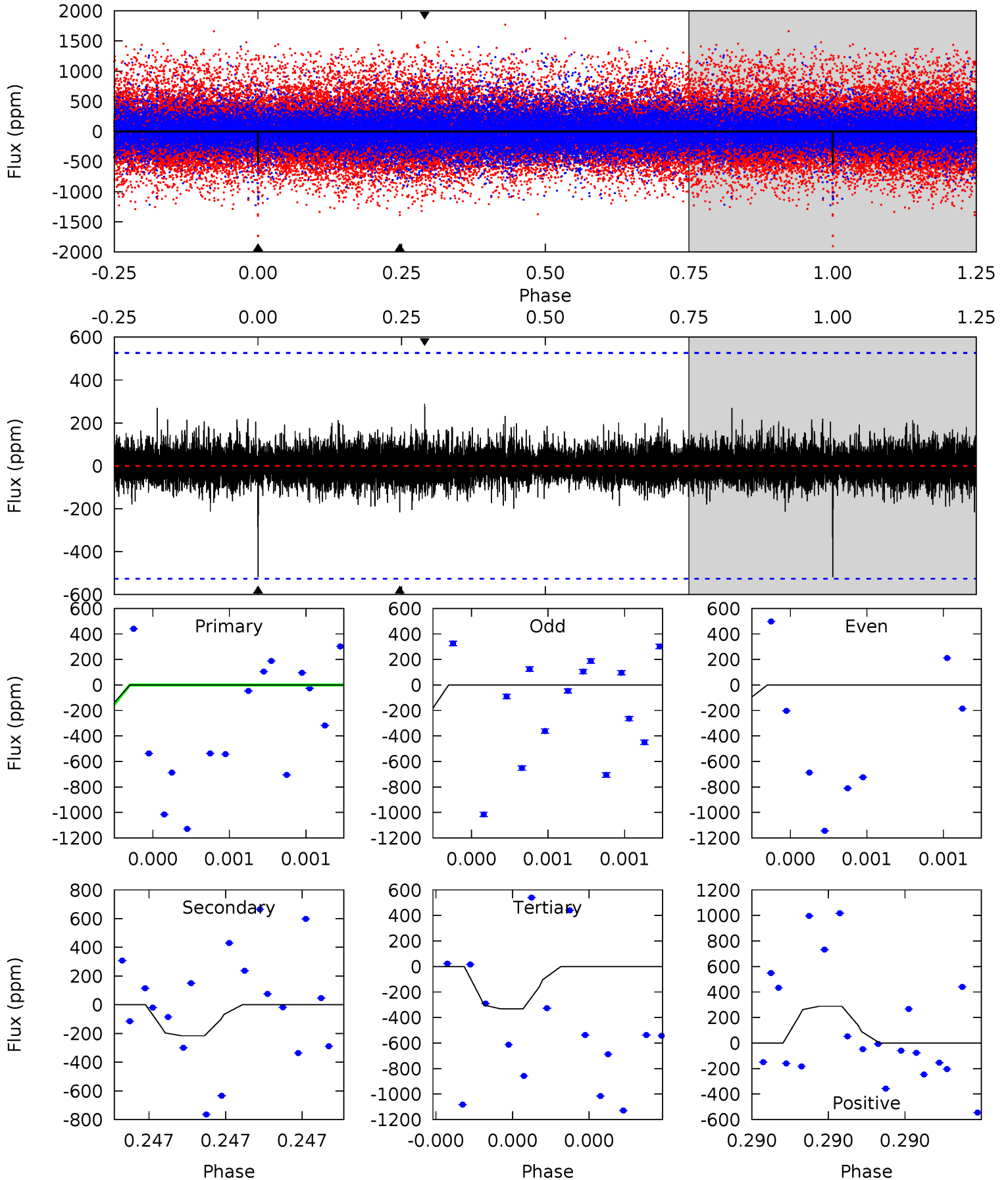
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.66	7.06	7.03	9.31	5.61	3.53	1.85	0.63	-1.65	0.02	-2.25	3.22	1.14	0.55	0.07



Alt Model-Shift Uniqueness Test

006762923-01, P = 306.666869 Days, E = 251.525463 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.61	2.34	3.59	3.12	5.69	3.65	0.56	2.03	2.49	-1.25	-0.79	1.76	1.49	0.36	1.58



Stellar Parameters For KIC 006762923

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4261^{+129}_{-142}	$4.602^{+0.052}_{-0.016}$	$0.220^{+0.200}_{-0.300}$	$0.681^{+0.028}_{-0.057}$	$0.677^{+0.044}_{-0.053}$	$3.016^{+0.695}_{-0.201}$
	+3%/-3%	+1%/-0%	+91%/-136%	+4%/-8%	+6%/-8%	+23%/-7%
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 006762923-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-756 ± 107	$3.06^{+2.41}_{-2.10}$	244^{+8}_{-10}	3684^{+2092}_{-627}	$27480^{+231716}_{-19279}$
Alt.	-216 ± 92	$2.66^{+2.67}_{-1.70}$	243^{+8}_{-9}	3141^{+1348}_{-584}	9693^{+72096}_{-7593}

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 $A_{\text{obs}} \gg 1.0$

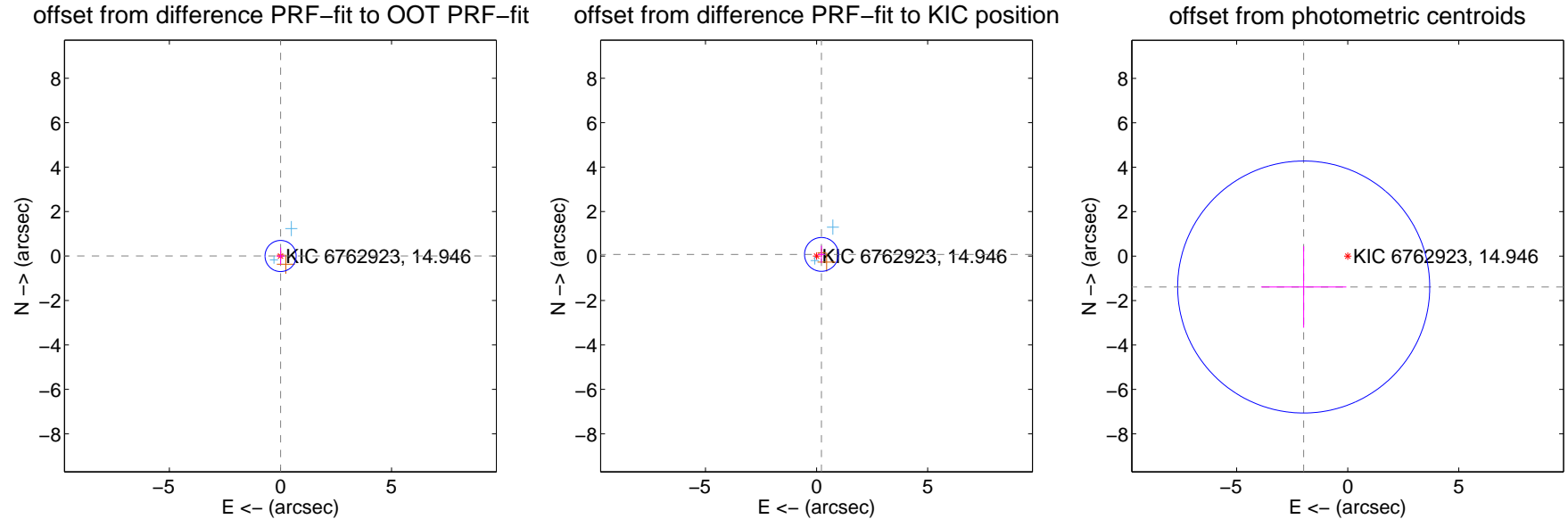
DV Centroid Data

Supplemental centroid analysis for 006762923-01. Kepler magnitude: 14.95. Transit SNR 3.56

There are 2 quarters with good PRF difference image offsets

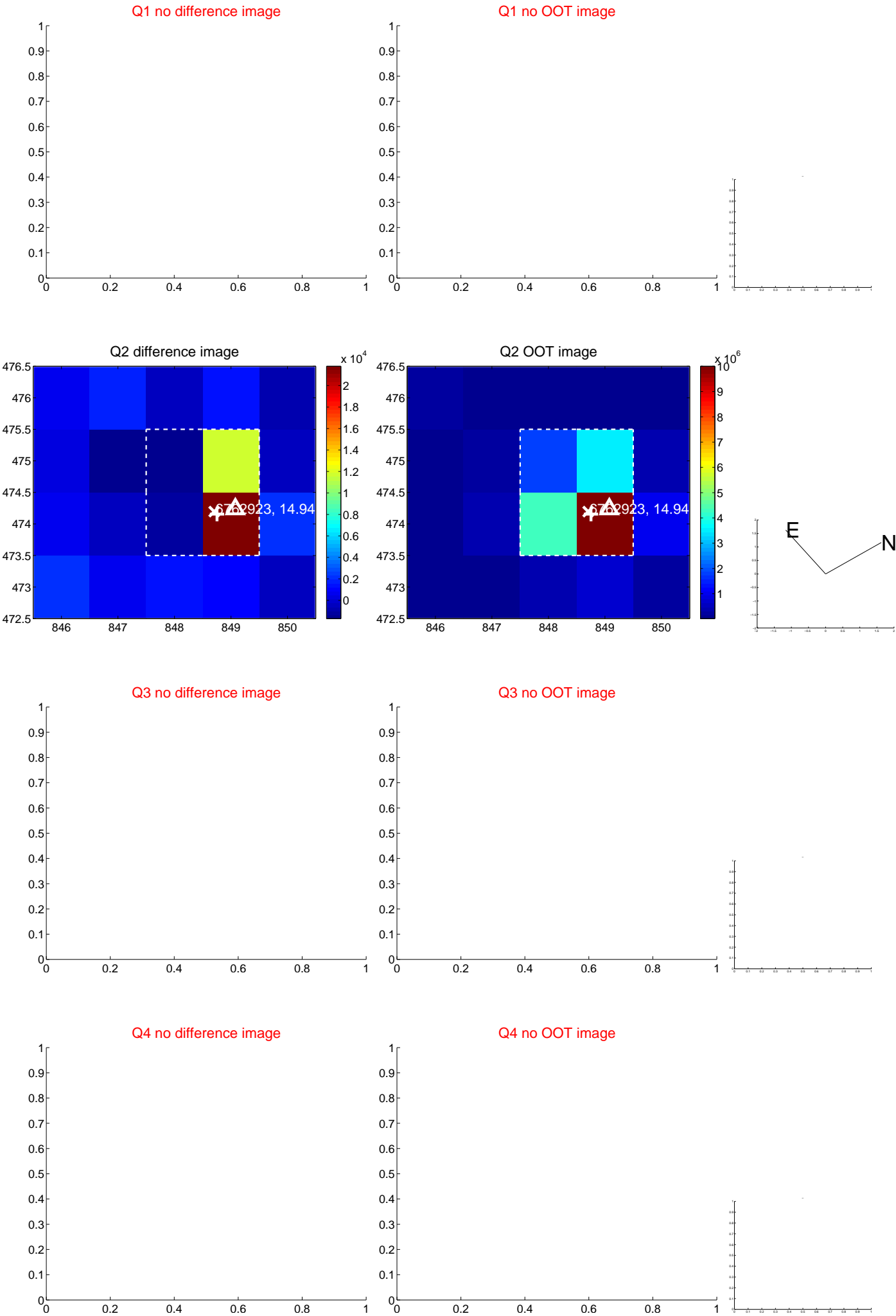
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.006 ± 0.233	0.02	-0.006 ± 0.180	0.001 ± 0.383
PRF-fit source offset from KIC position	0.231 ± 0.254	0.91	-0.220 ± 0.156	0.072 ± 0.389
photometric centroid source offset	2.42 ± 1.89	1.28	1.98 ± 1.92	-1.39 ± 1.83

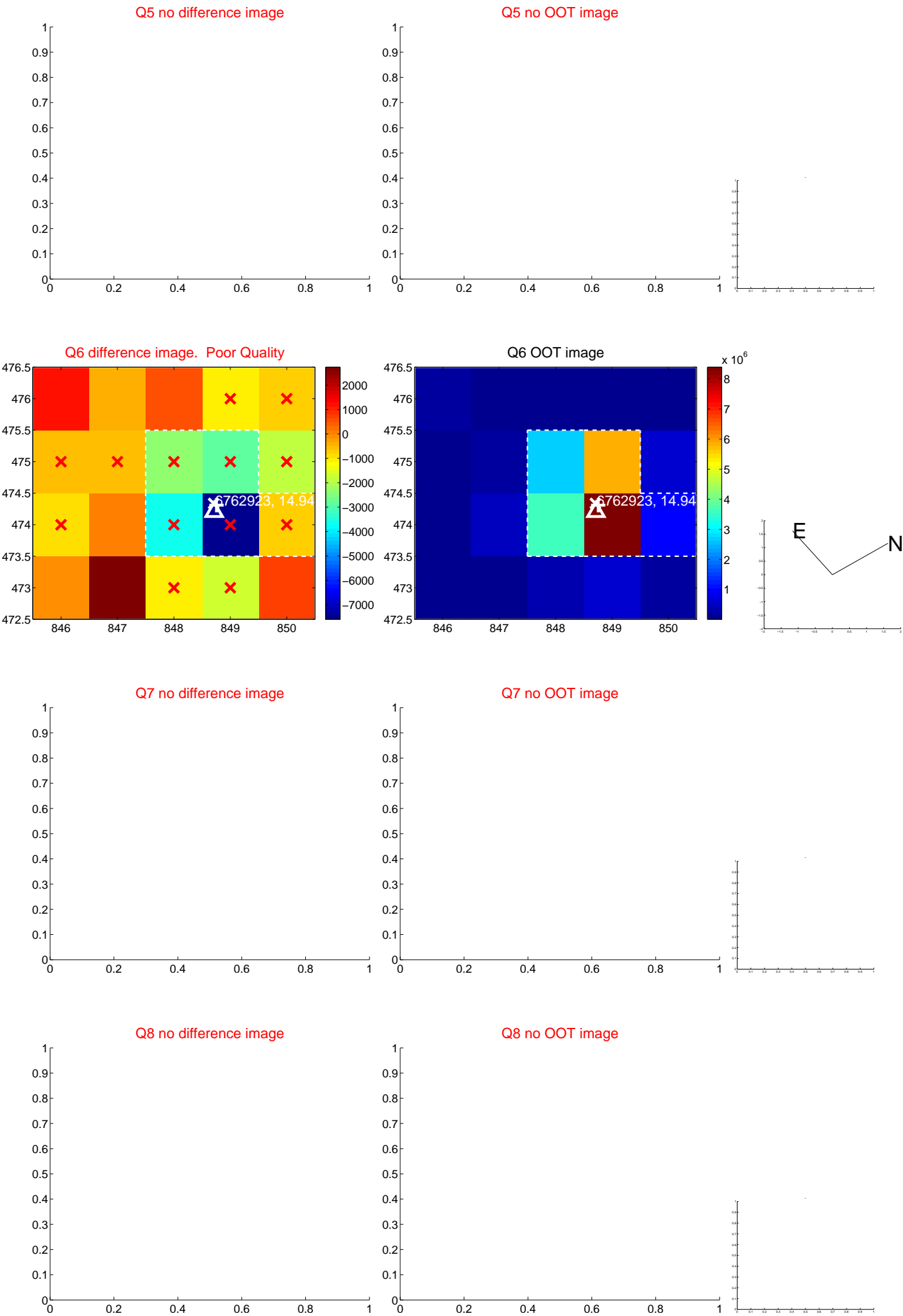


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

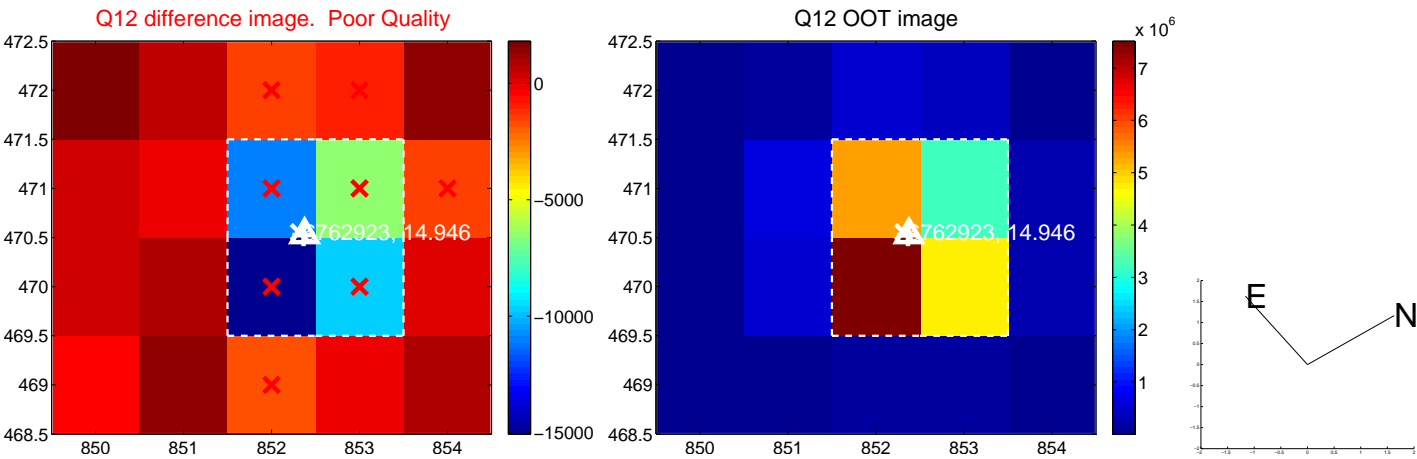
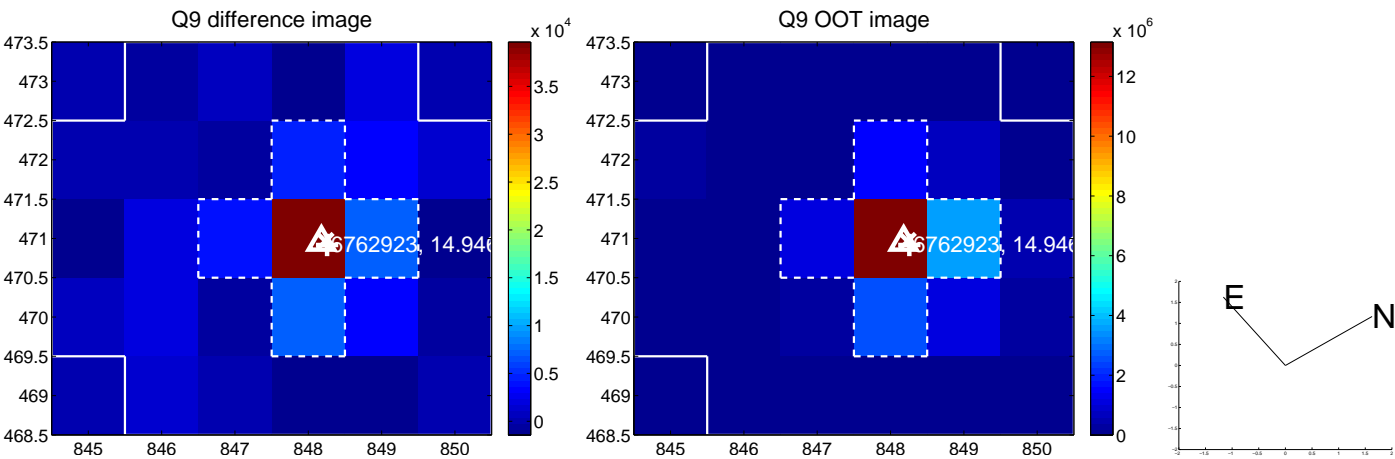
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



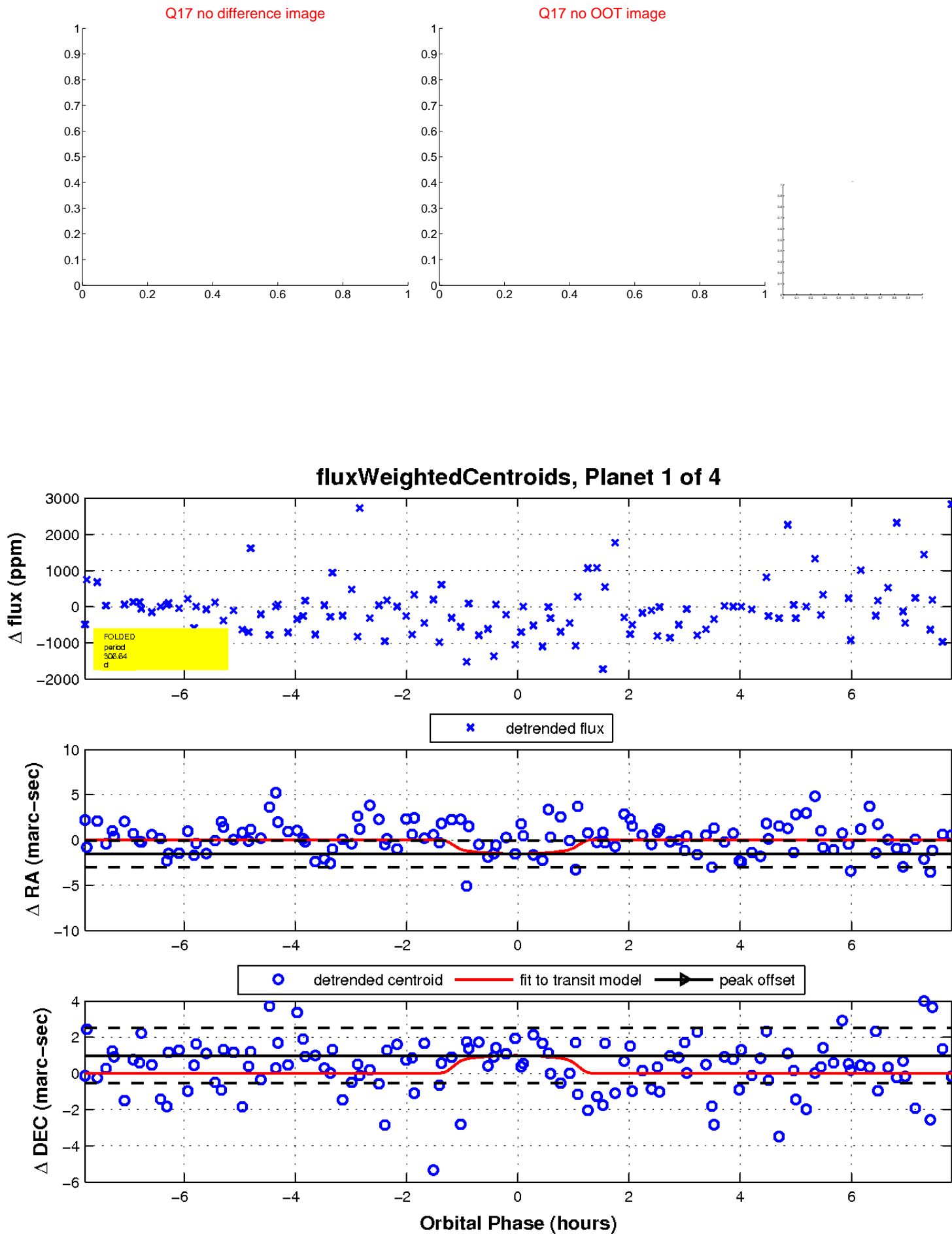
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

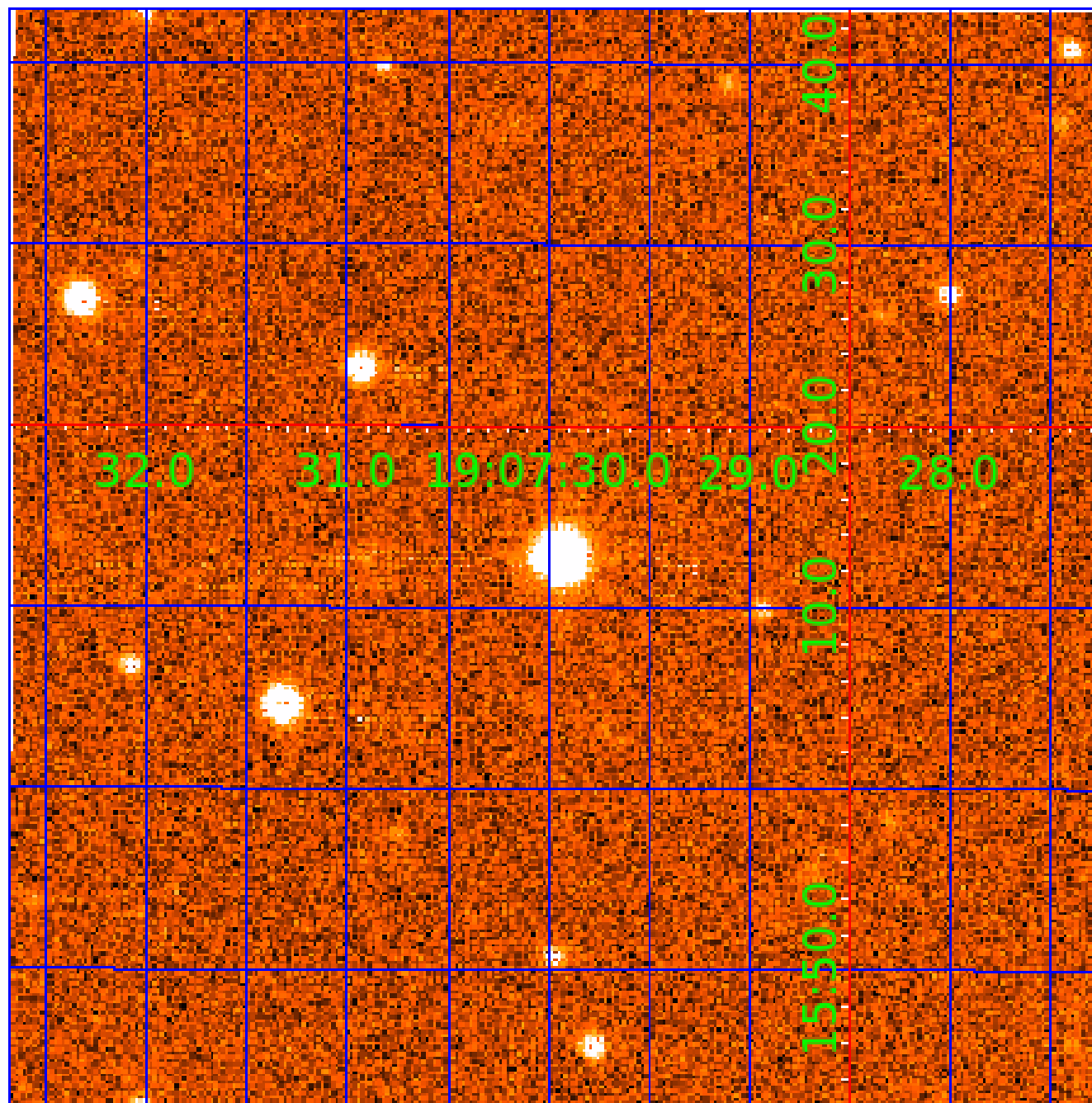


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006762923

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})
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006762923-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS— HALO_GHOST
006762923-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

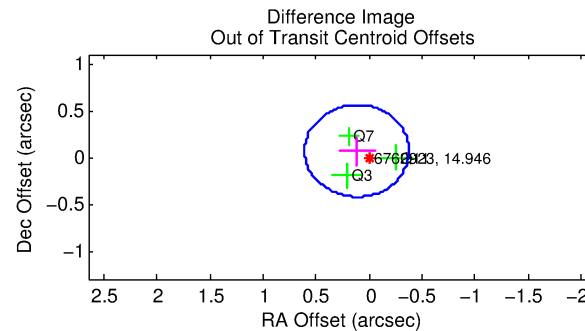
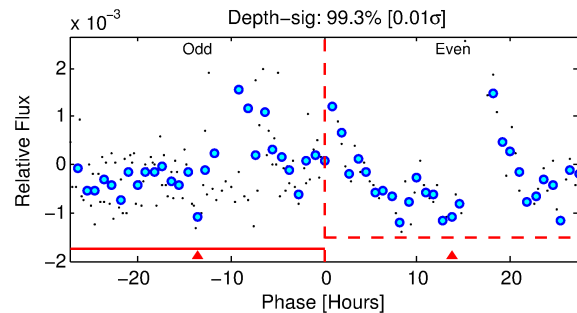
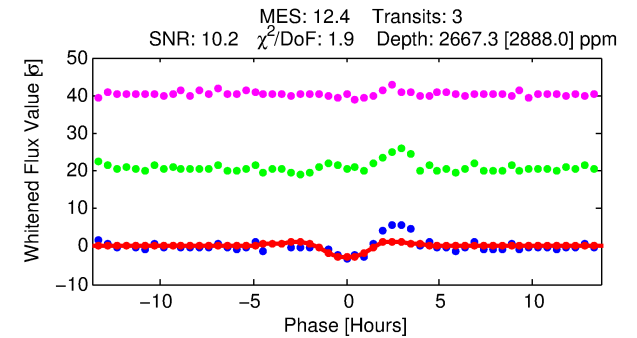
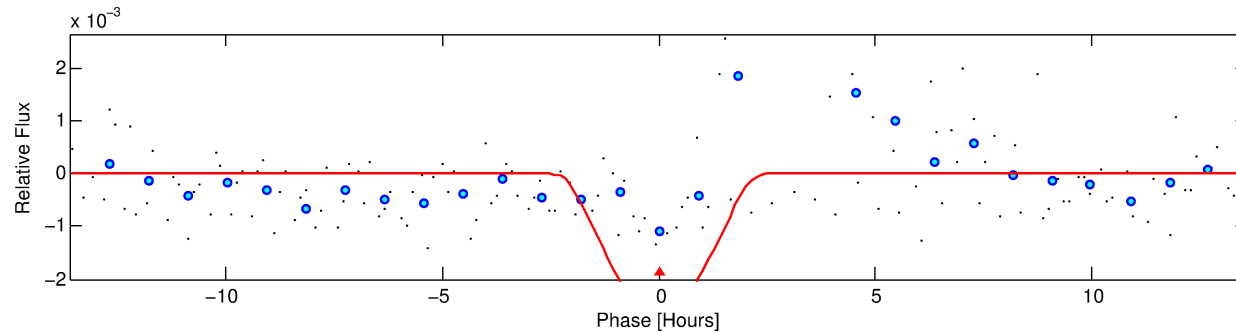
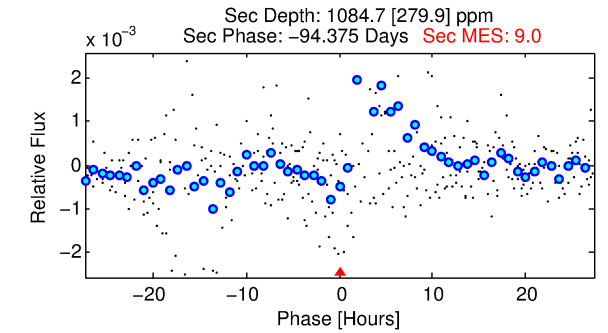
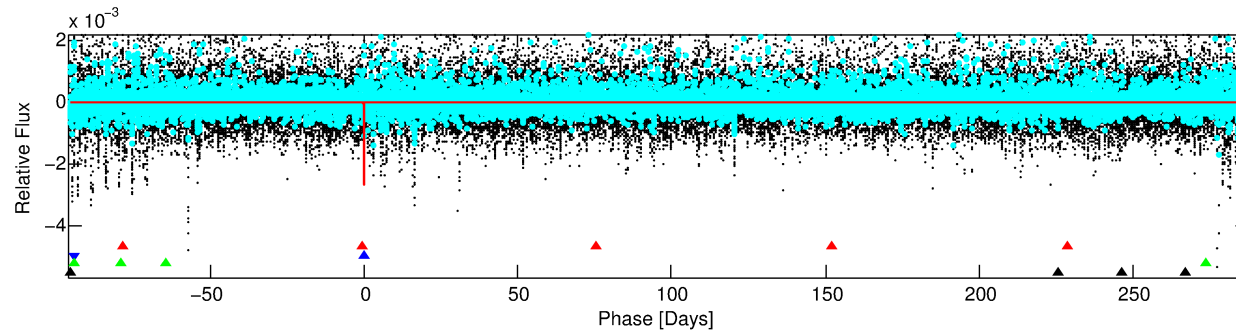
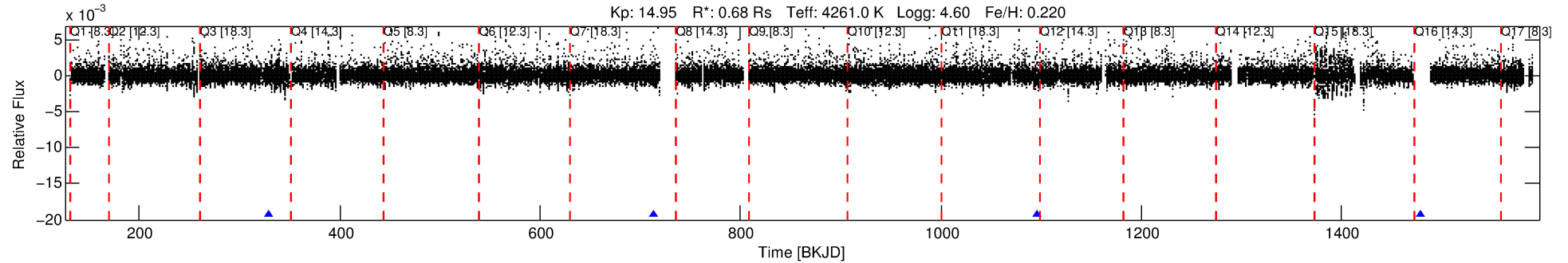
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006762923-02

No Significant Match Found

DV One-Page Summary

KIC: 6762923 Candidate: 2 of 4 Period: 383.094 d



DV Fit Results:

Period = 383.09401 [0.00770] d
Epoch = 329.7499 [0.0103] BKJD
Rp/R* = 0.0954 [0.4357]
a/R* = 288.06 [254.21]
b = 1.00 [0.54]
Seff = 0.17 [0.03]
Teq = 163 [7] K
Rp = 7.09 [32.39] Re
a = 0.9064 [0.0622] AU
Ag = 9761.93 [89245.50] [0.11 σ]
Teffp = 2504 [5723] K [0.41 σ]

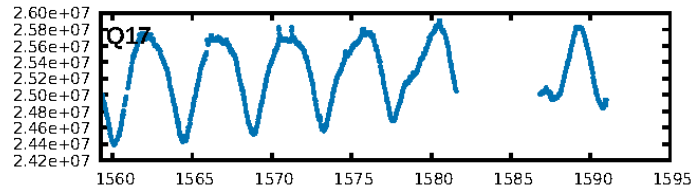
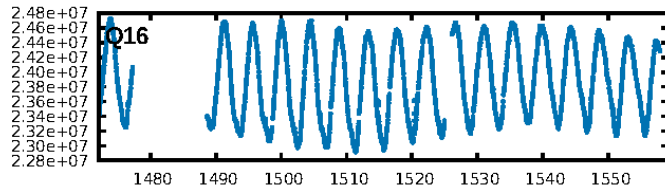
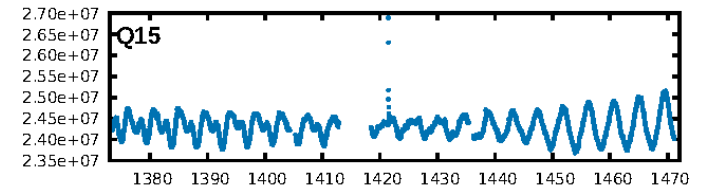
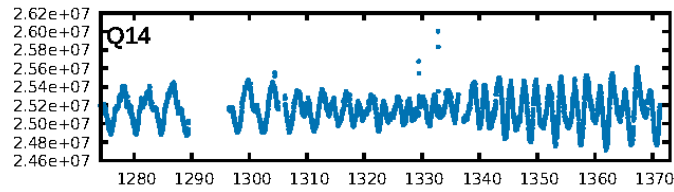
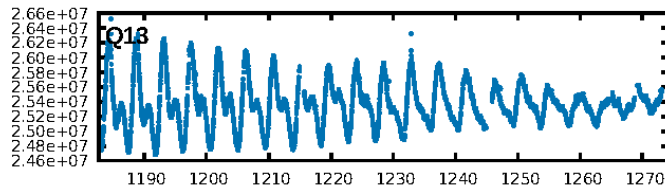
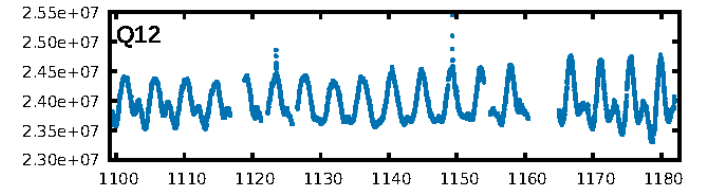
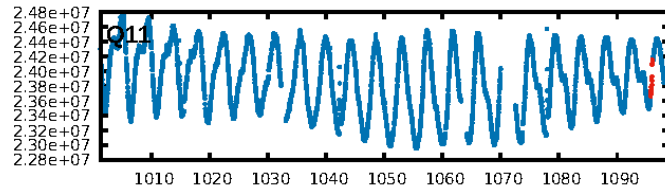
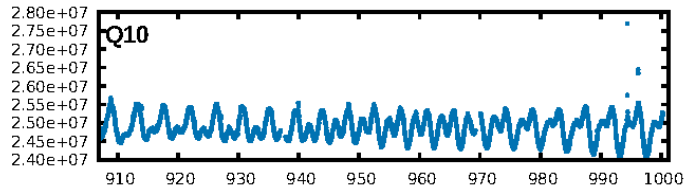
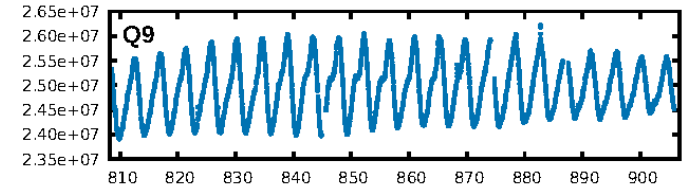
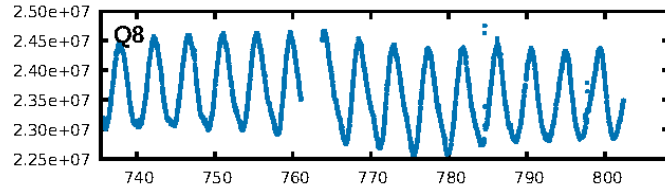
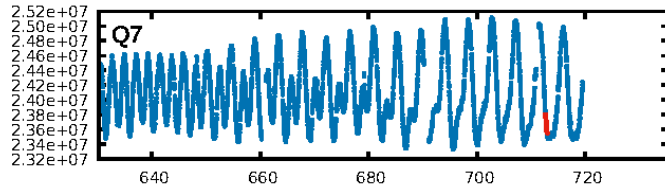
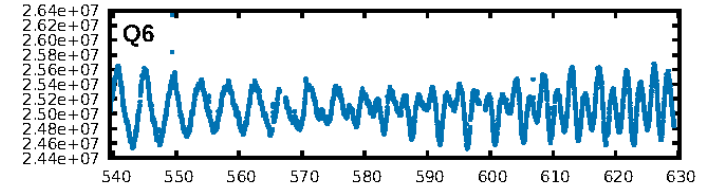
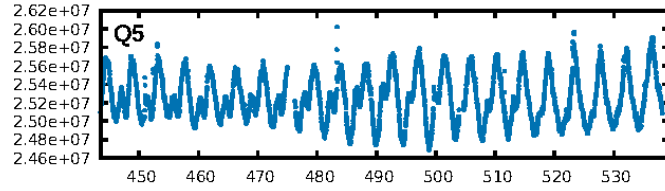
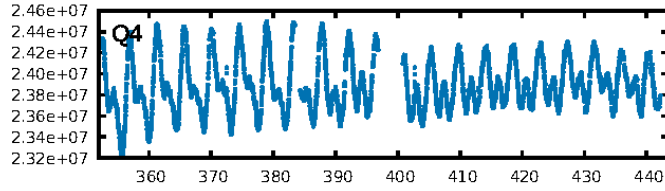
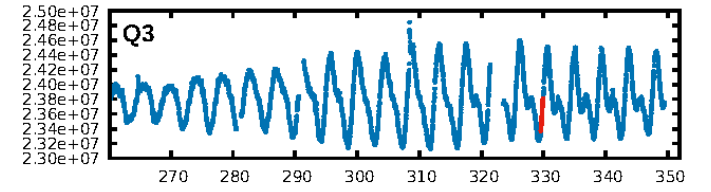
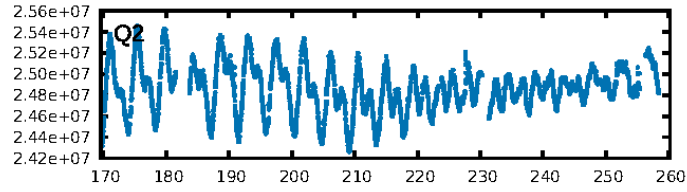
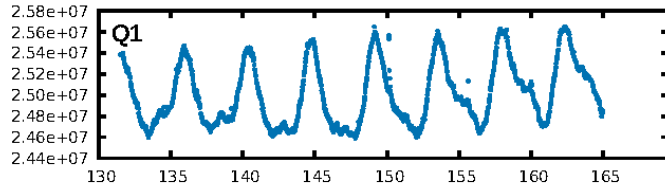
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [73.05 σ]
LongPeriod-sig: 100.0% [57.80 σ]
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 15.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.1957
Centroid-sig: 22.2%
Centroid-so: 0.525 arcsec [0.89 σ]
OotOffset-rm: 0.135 arcsec [0.82 σ]
OotOffset-st: 0/3/0/0 [3]
KicOffset-rm: 0.235 arcsec [1.35 σ]
KicOffset-st: 0/3/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

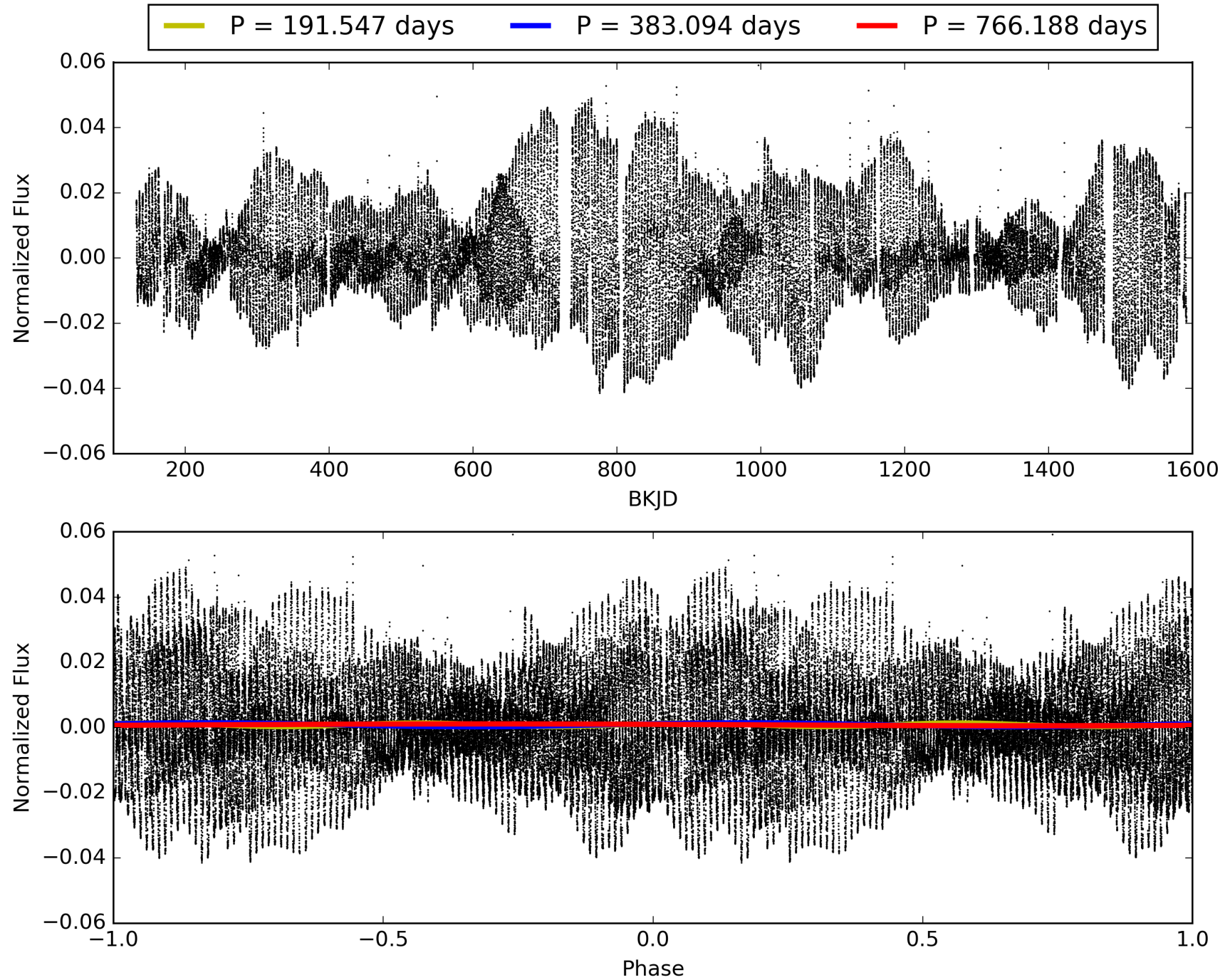
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:55:49 Z

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

TCE 006762923-02, PDC Light Curves

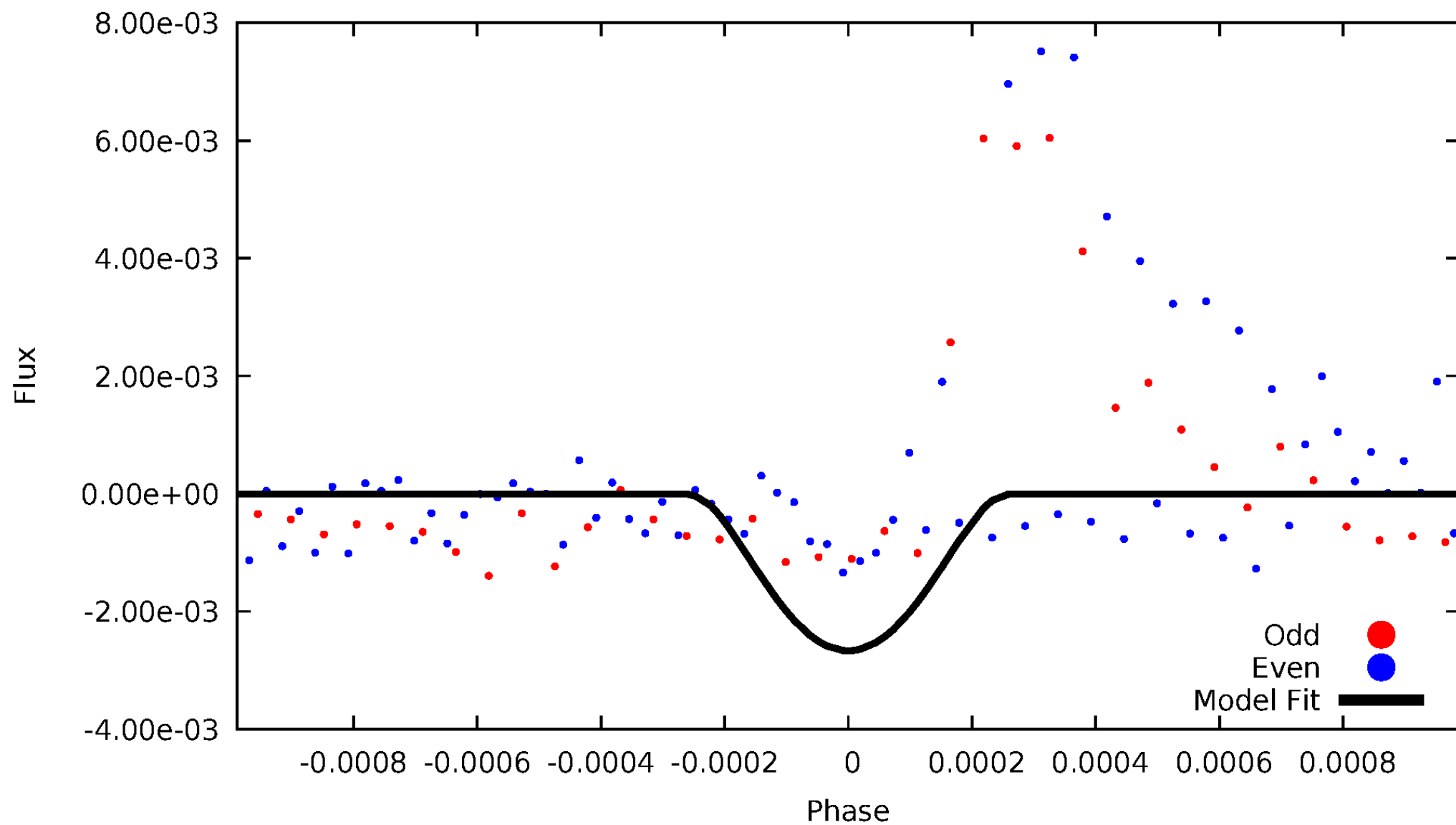


TCE 006762923-02



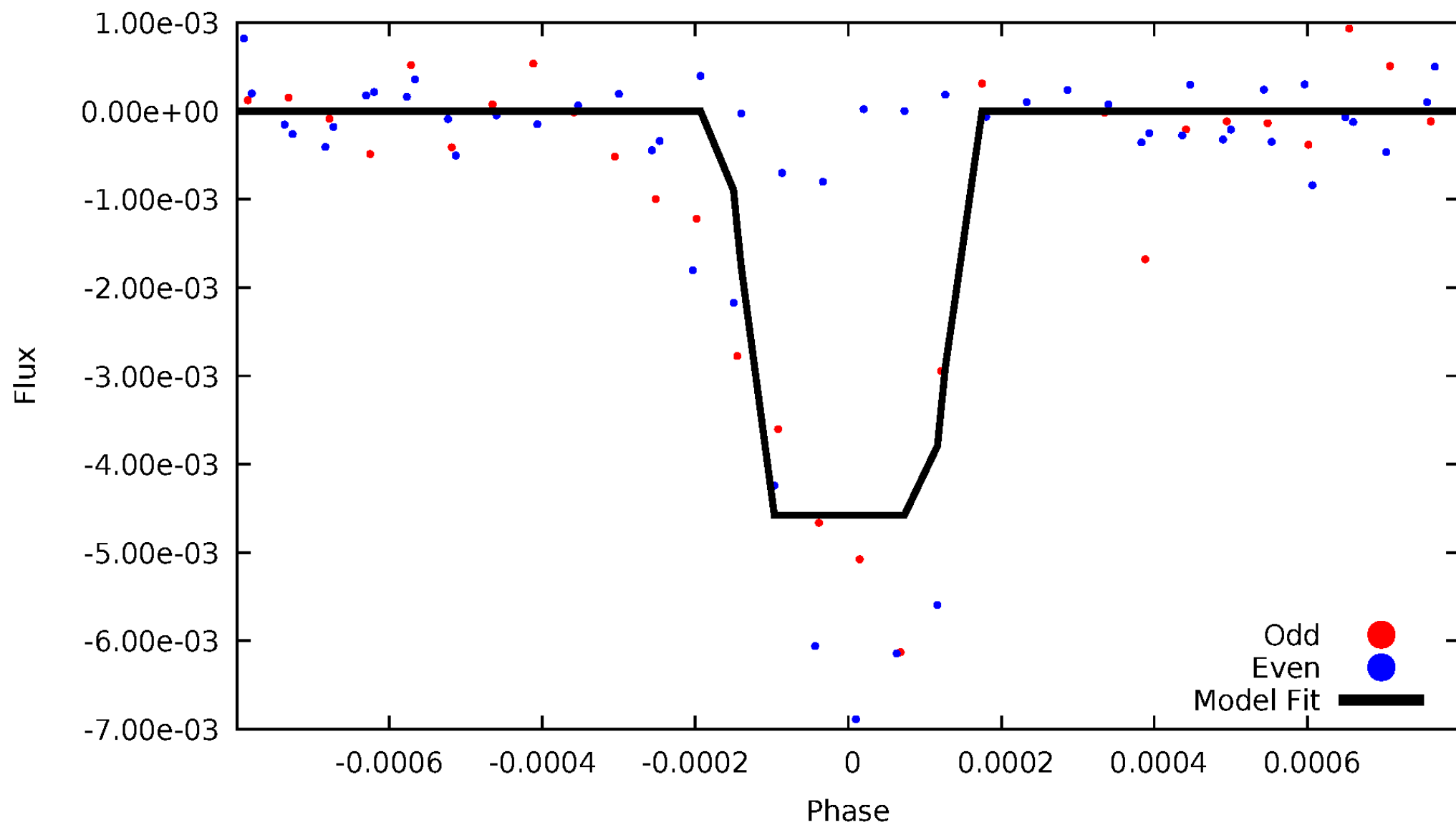
DV Odd/Even

TCE 006762923-02



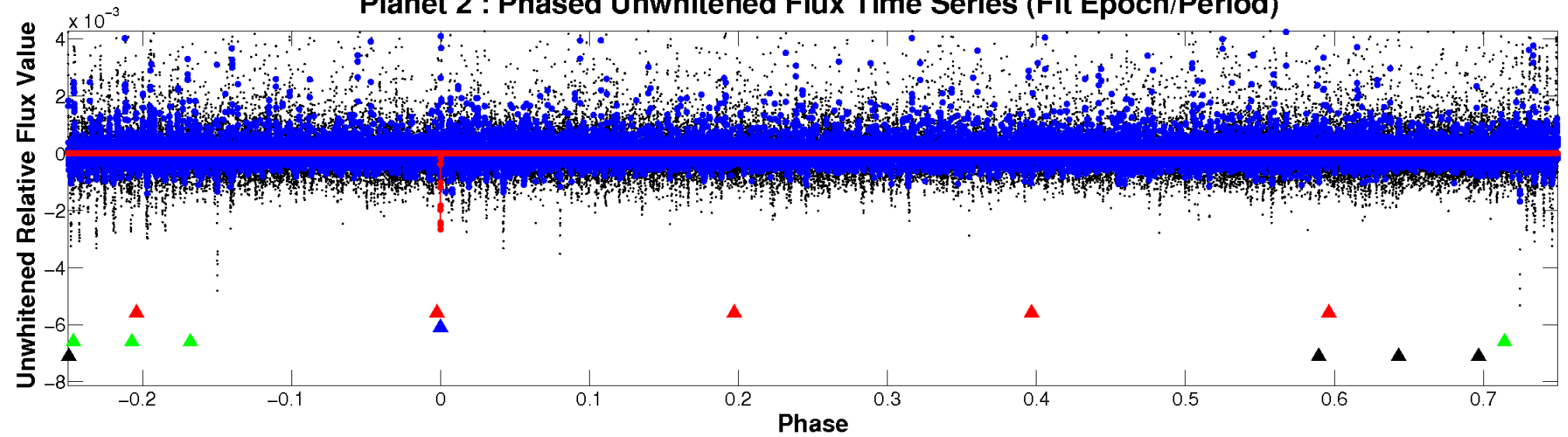
ALT Odd/Even

TCE 006762923-02

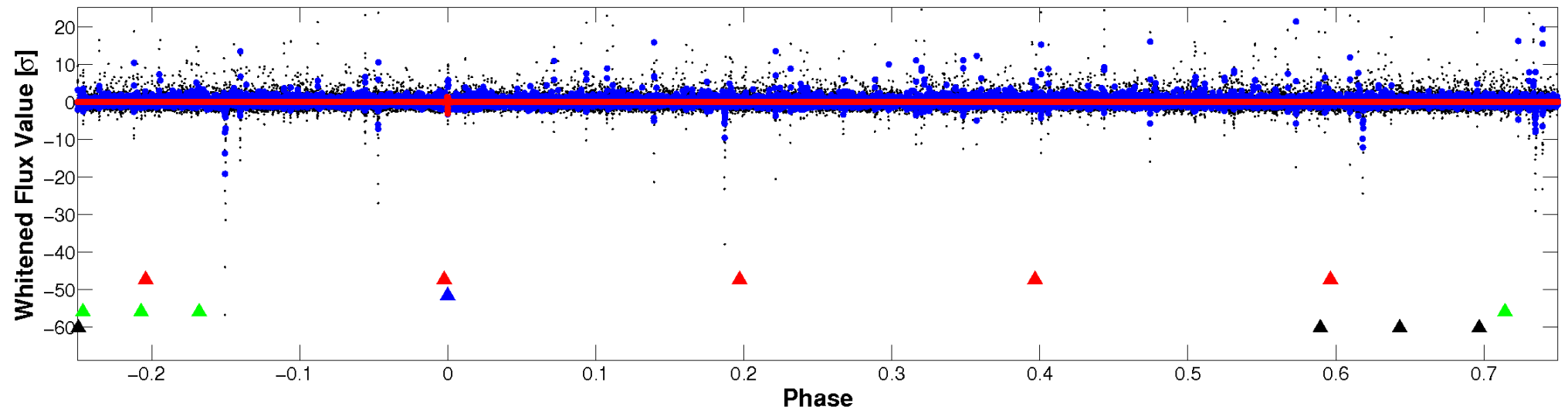


Non-Whitened Vs. Whitened Light Curve

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

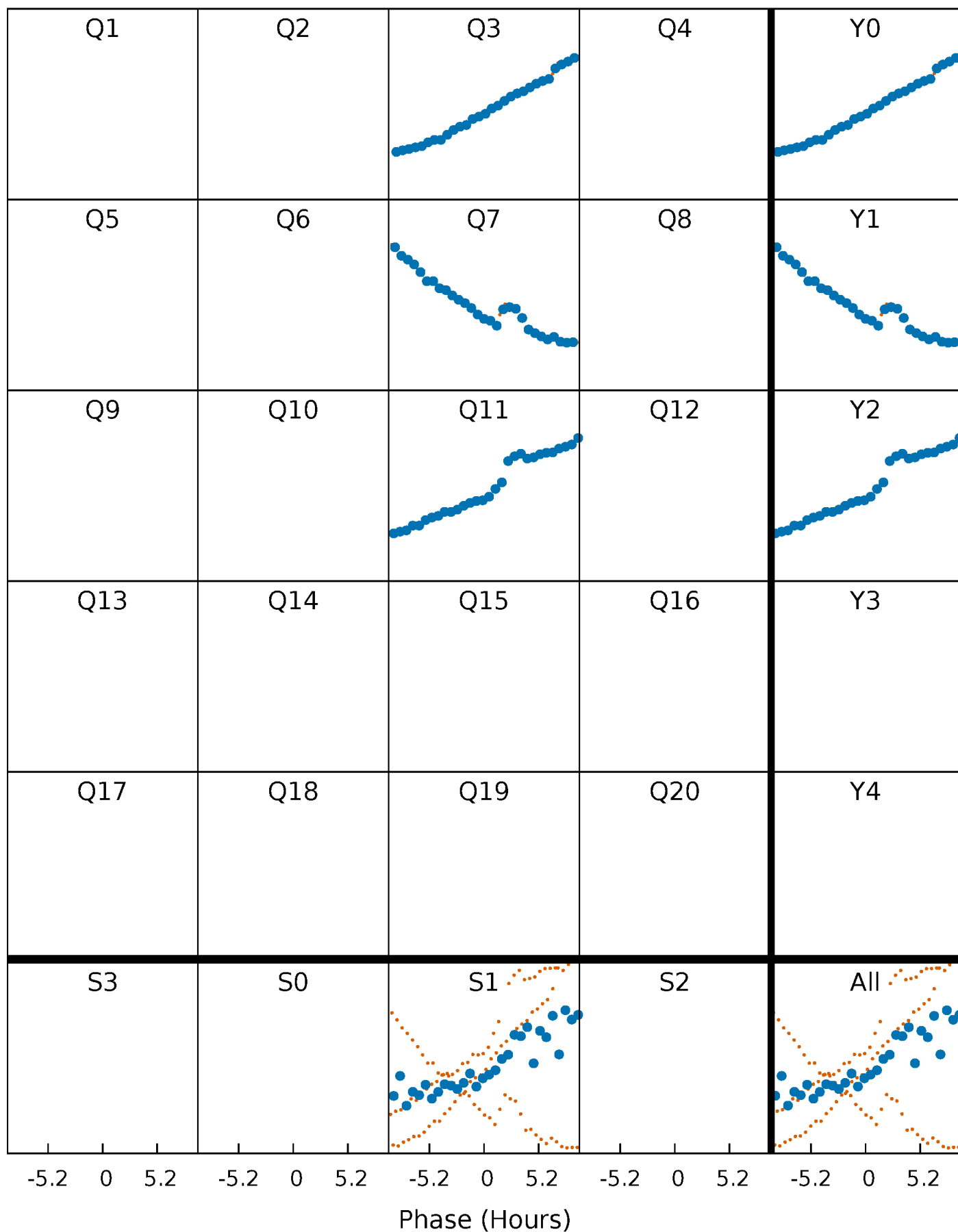


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



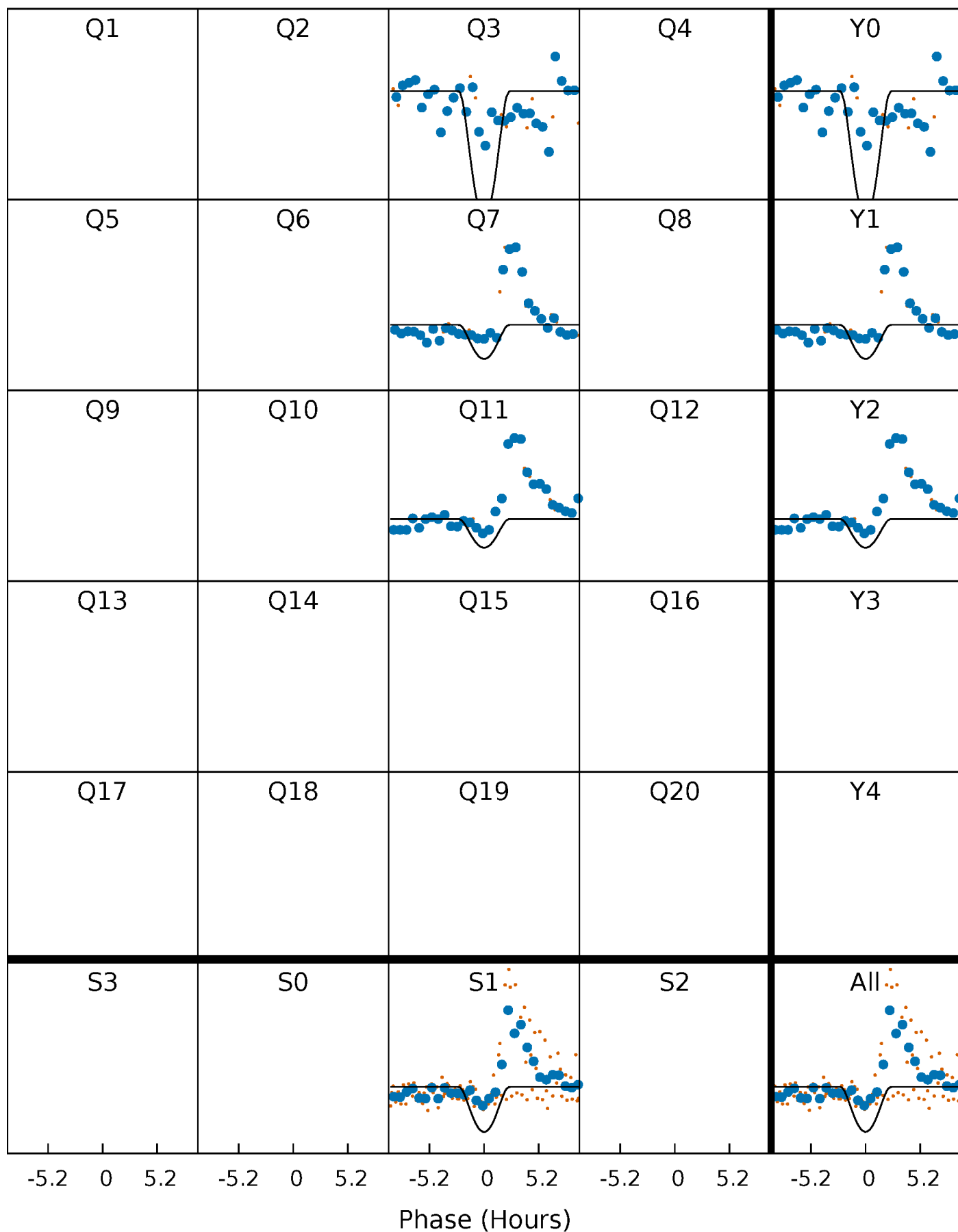
PDC Quarter-Phased Transit Curves

TCE 006762923-02 P=383.094010 Days $T_0=329.749905$ (BKJD)



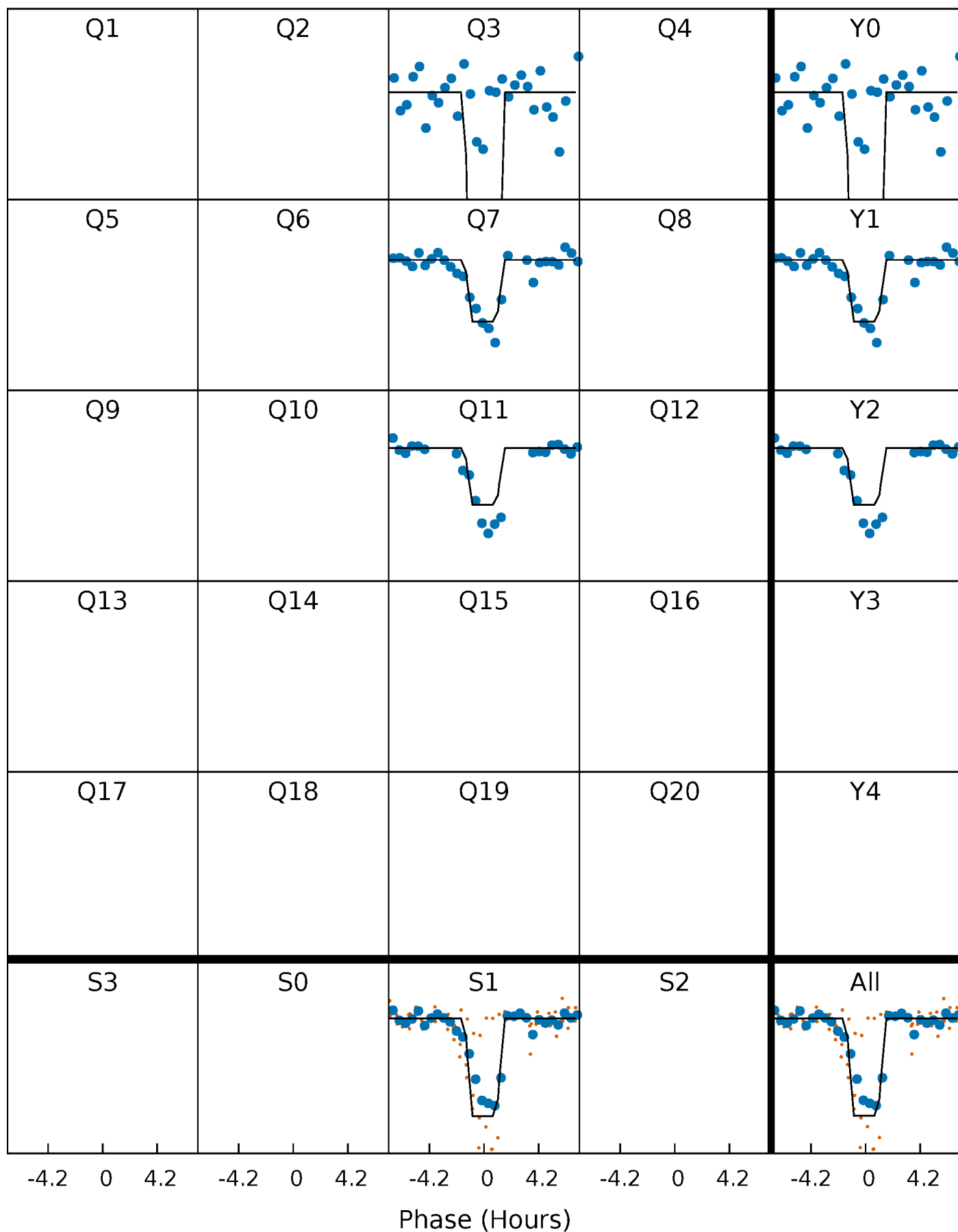
DV Quarter-Phased Transit Curves

TCE 006762923-02 $P=383.094010$ Days $T_0=329.749905$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

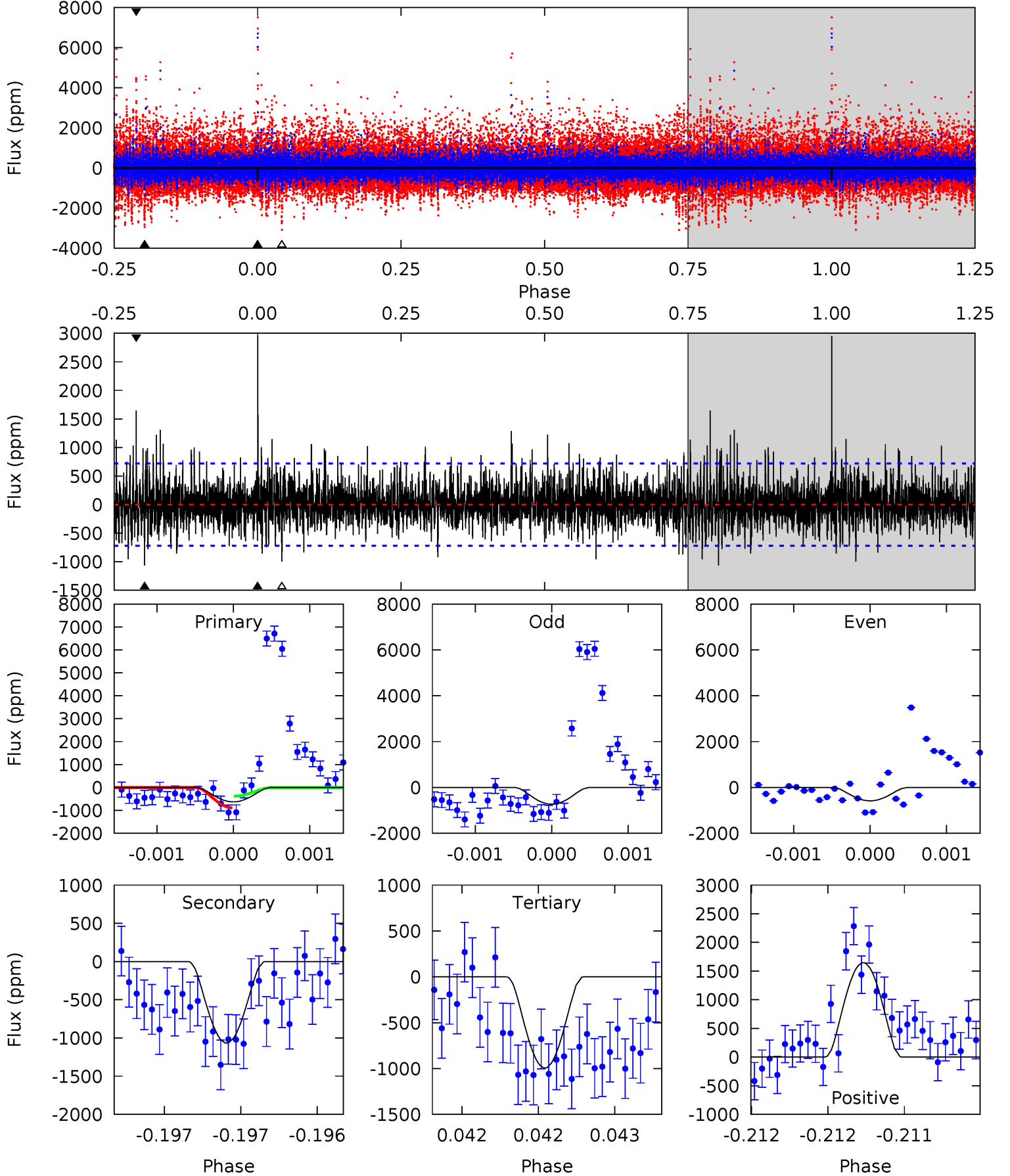
TCE 006762923-02 P=383.090691 Days $T_0=329.769985$ (BKJD)



DV Model-Shift Uniqueness Test

006762923-02, P = 383.094010 Days, E = 329.749905 Days

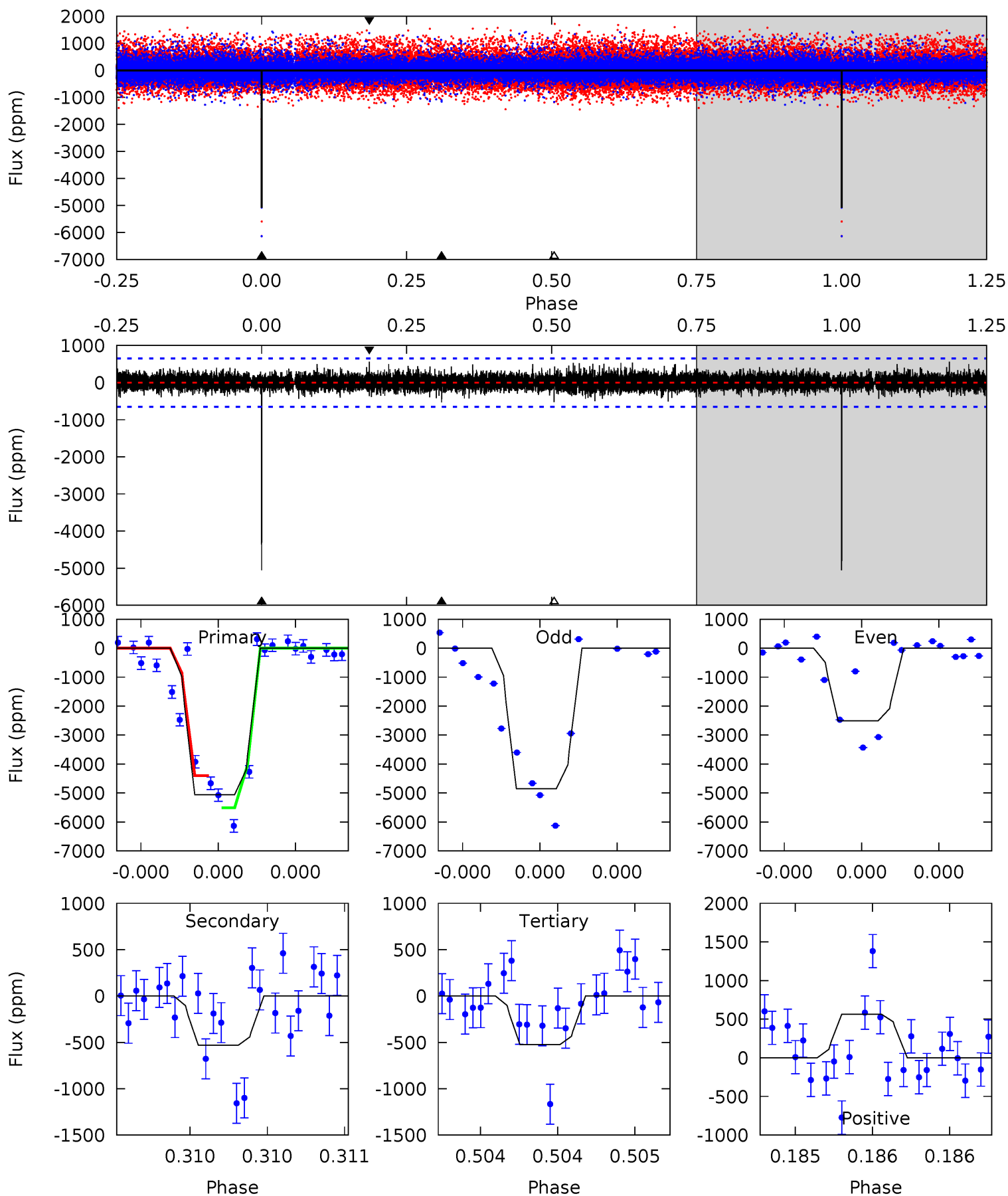
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.87	8.24	7.68	12.7	5.56	3.46	2.06	-2.81	-7.85	0.56	-4.49	0.47	0.88	0.73	2.01



Alt Model-Shift Uniqueness Test

006762923-02, P = 383.090691 Days, E = 329.769985 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
43.8	4.60	4.54	4.87	5.65	3.60	0.99	39.2	38.9	0.06	-0.27	12.3	0.77	0.10	0



Stellar Parameters For KIC 006762923

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4261^{+129}_{-142}	$4.602^{+0.052}_{-0.016}$	$0.220^{+0.200}_{-0.300}$	$0.681^{+0.028}_{-0.057}$	$0.677^{+0.044}_{-0.053}$	$3.016^{+0.695}_{-0.201}$
	+3%/-3%	+1%/-0%	+91%/-136%	+4%/-8%	+6%/-8%	+23%/-7%
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 006762923-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1067 ± 129	$25.38^{+25.25}_{-17.33}$	226^{+8}_{-9}	2192^{+734}_{-299}	737^{+7256}_{-546}
Alt.	-532 ± 115	$23.76^{+24.89}_{-15.91}$	225^{+8}_{-9}	2049^{+596}_{-276}	417^{+3684}_{-322}

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

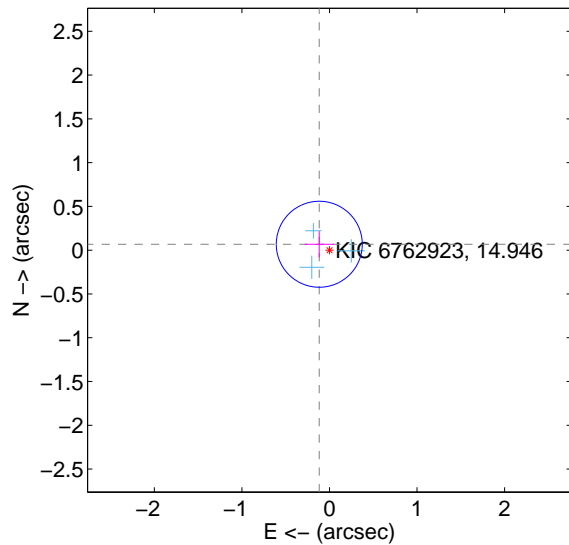
Supplemental centroid analysis for 006762923-02. Kepler magnitude: 14.95. Transit SNR 10.25

There are 3 quarters with good PRF difference image offsets

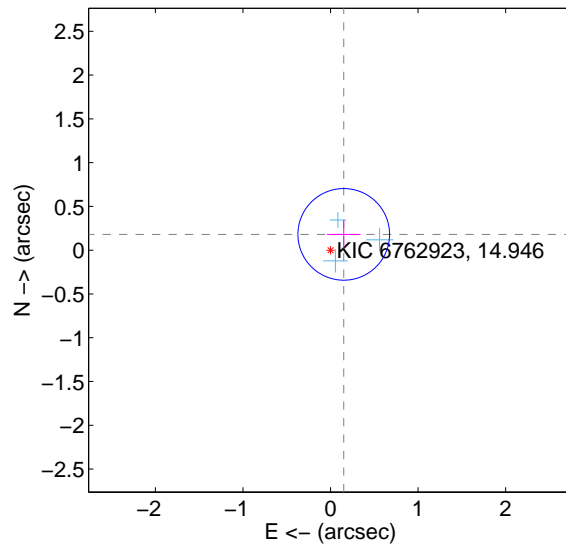
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.135 ± 0.164	0.82	0.116 ± 0.168	0.068 ± 0.150
PRF-fit source offset from KIC position	0.235 ± 0.174	1.35	-0.151 ± 0.192	0.180 ± 0.161
photometric centroid source offset	0.53 ± 0.59	0.89	0.22 ± 0.51	0.48 ± 0.61

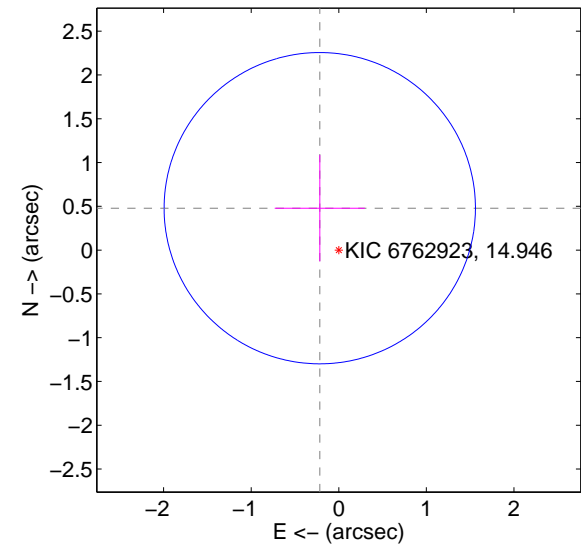
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

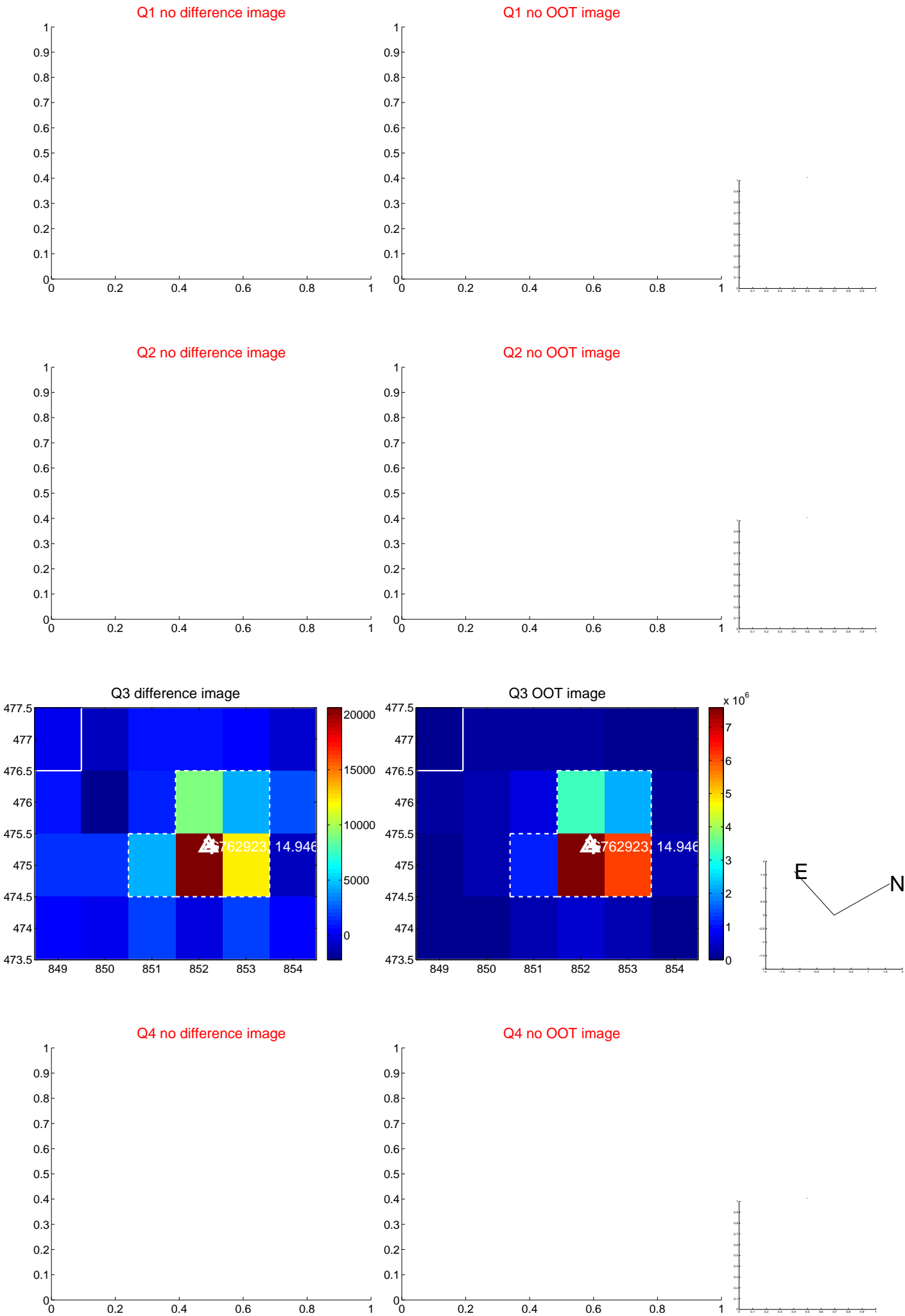


offset from photometric centroids

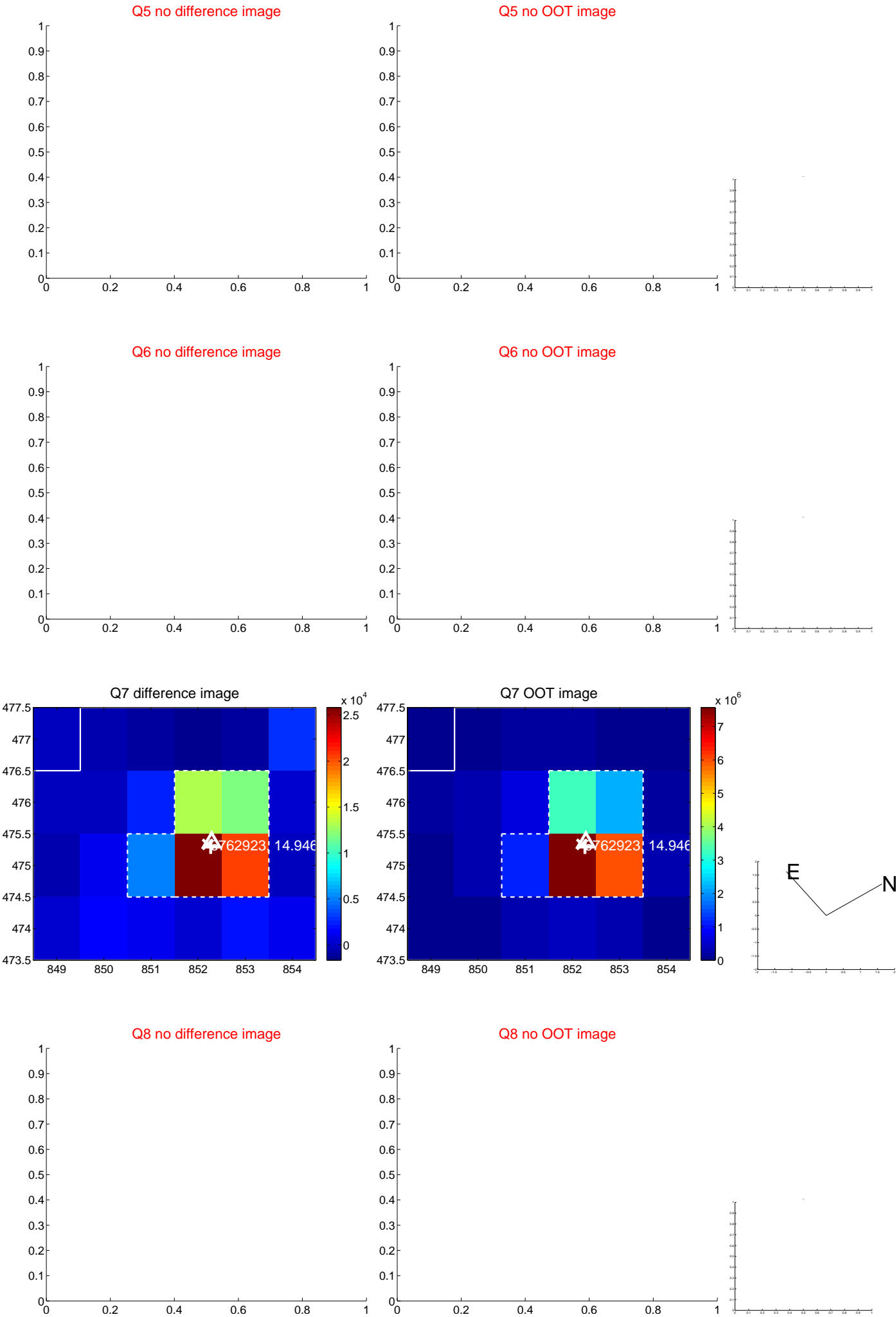


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

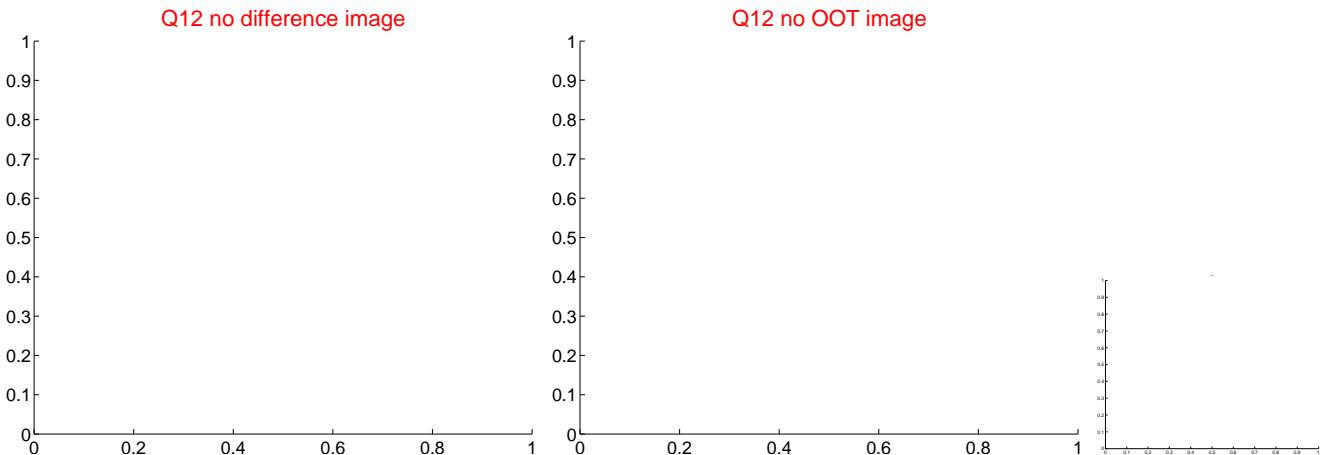
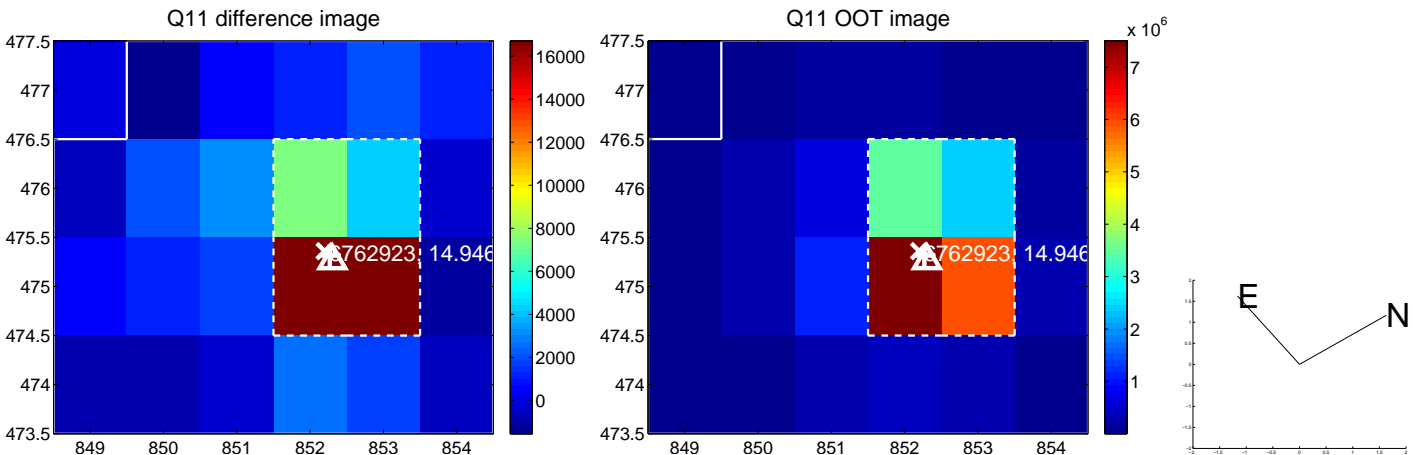
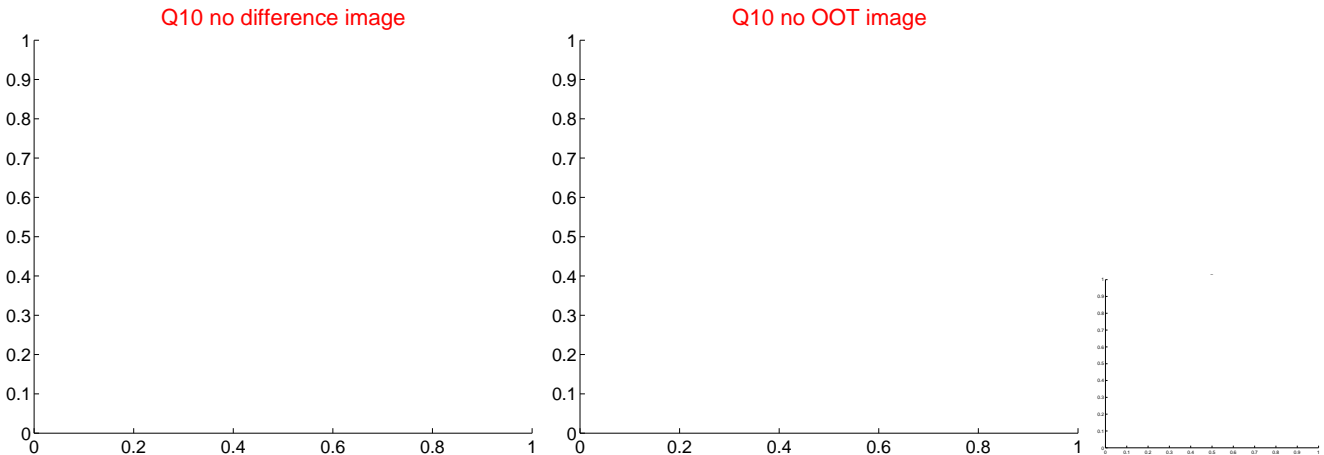
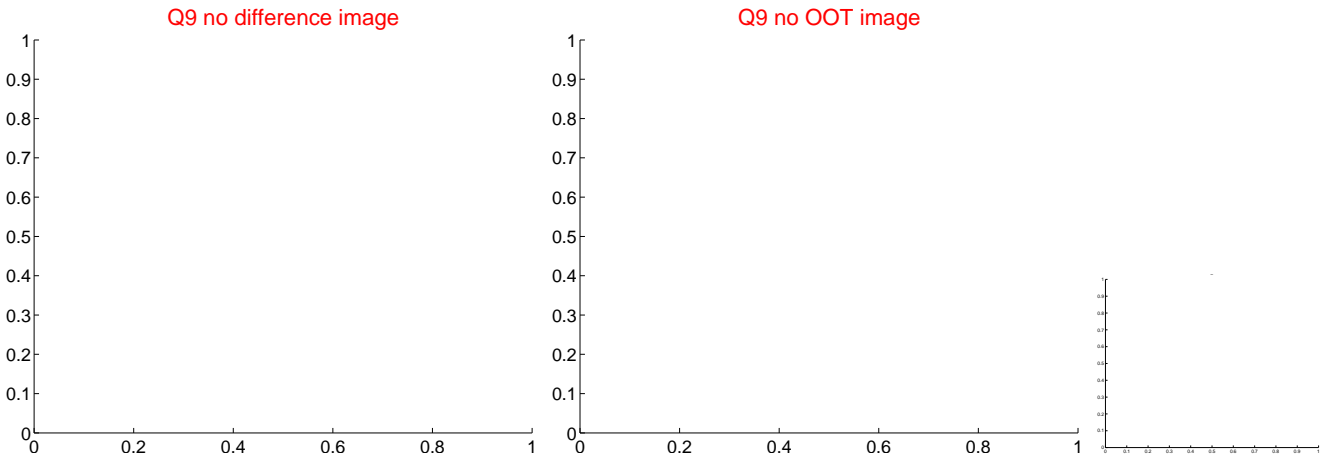
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



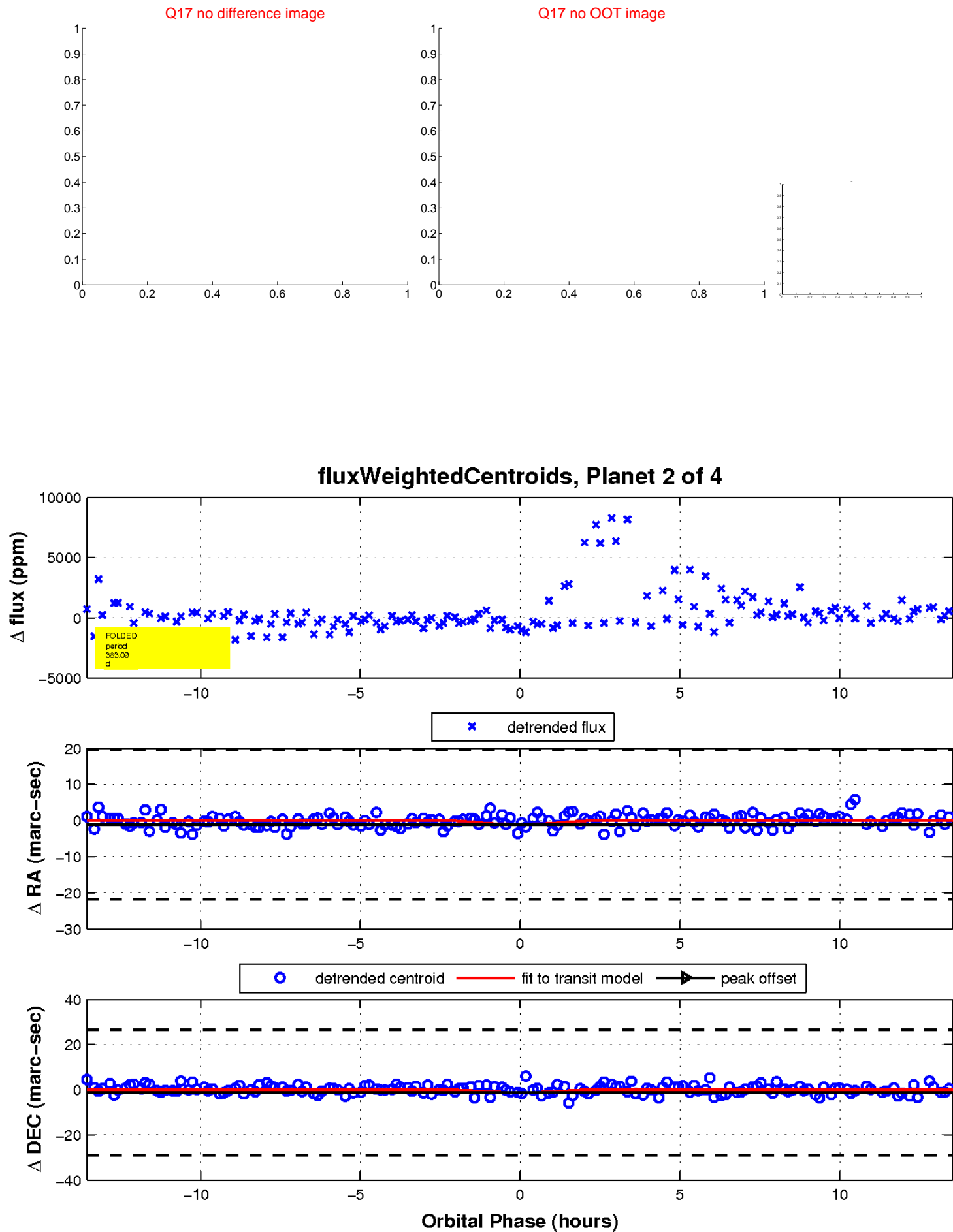
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

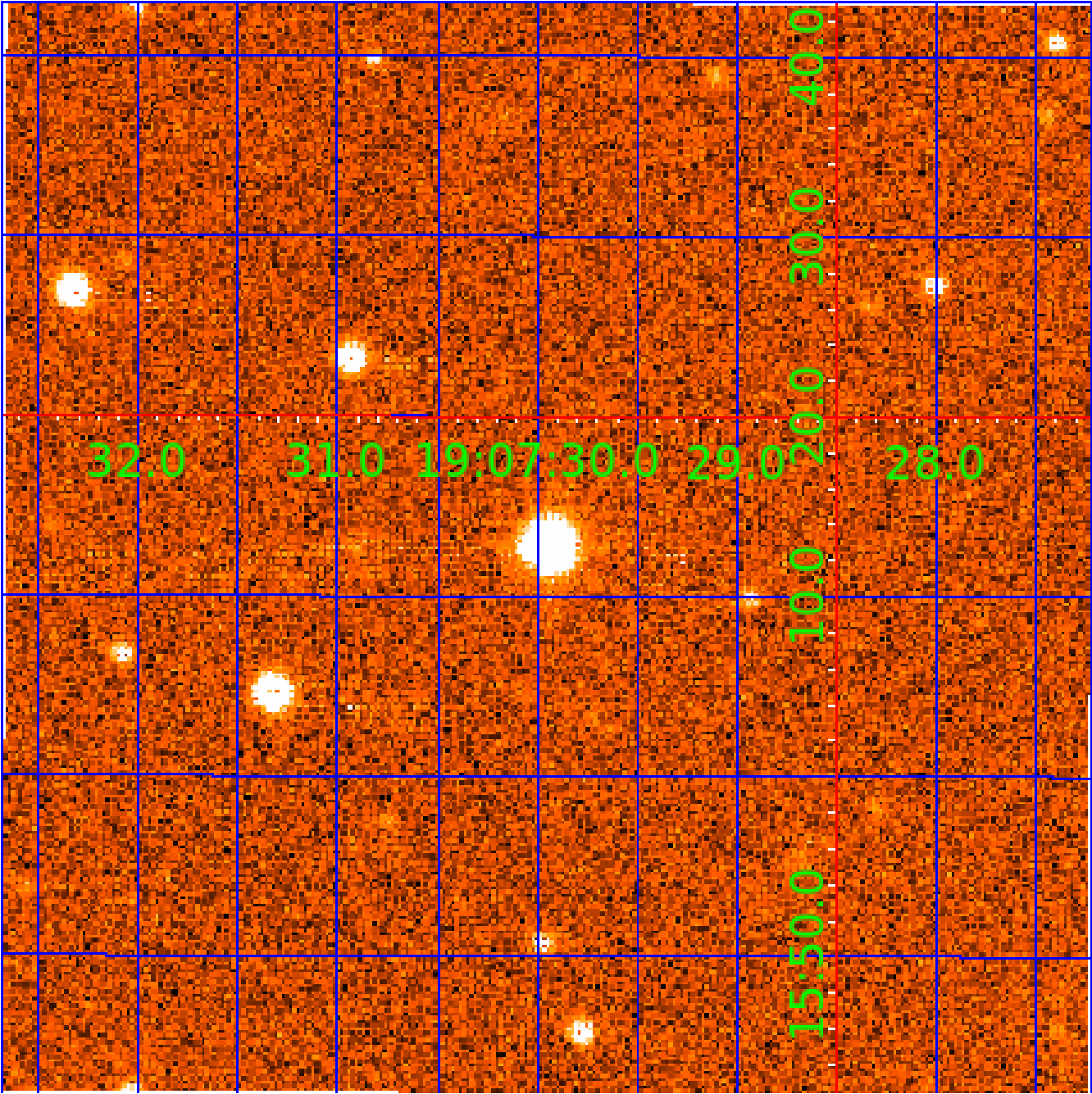


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006762923

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})
006762923-01	OBS	No	306.638418	251.577448	699.4	2.629	10.7	3.6	0.68	4261	2.22	0.22
006762923-02	OBS	No	383.094010	329.749905	2667.3	4.542	12.4	10.2	0.68	4261	7.09	0.17
006762923-03	OBS	No	398.143844	220.296278	1292.9	4.292	12.1	5.2	0.68	4261	2.71	0.16
006762923-04	OBS	No	362.532222	234.172605	1014.8	5.000	11.5	-1.0	0.68	4261	2.06	0.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006762923-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS— HALO_GHOST
006762923-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

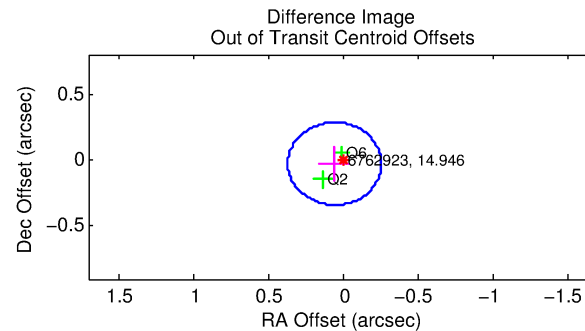
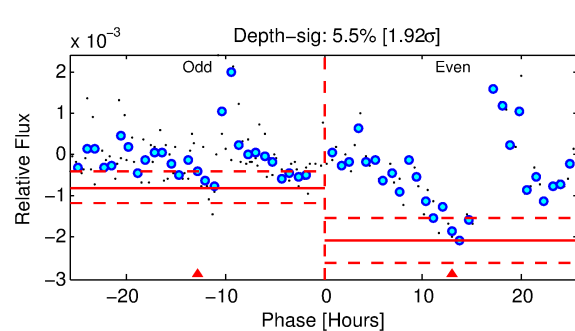
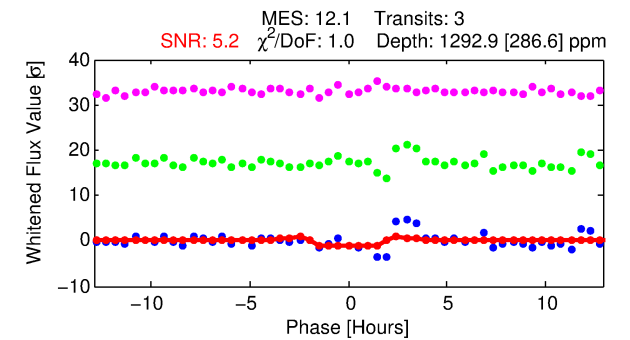
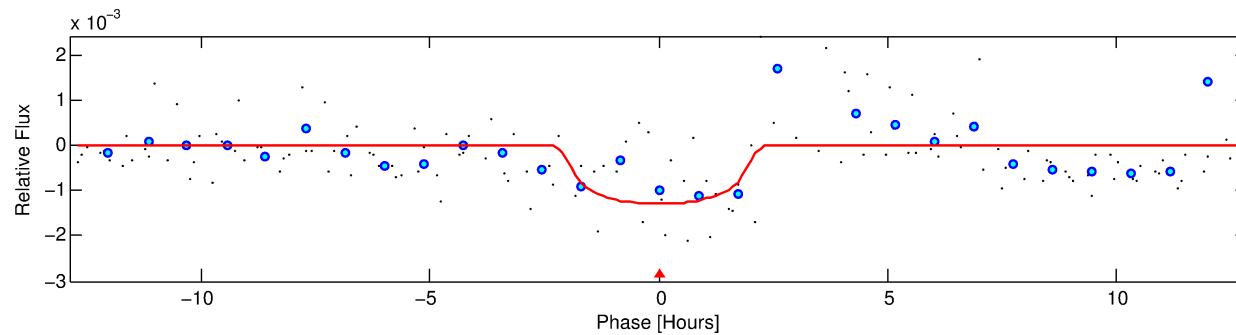
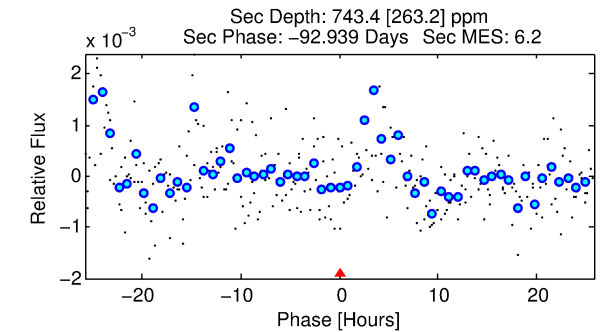
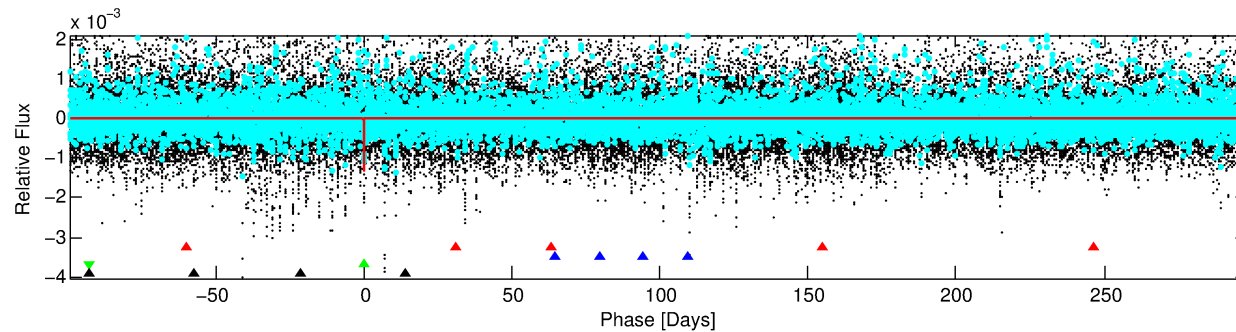
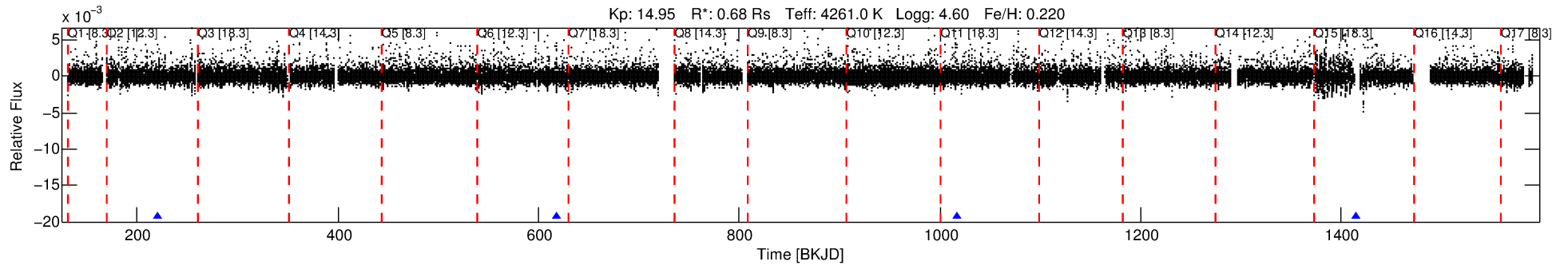
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006762923-03

No Significant Match Found

DV One-Page Summary

KIC: 6762923 Candidate: 3 of 4 Period: 398.144 d



DV Fit Results:

Period = 398.14384 [0.00715] d
Epoch = 220.2963 [0.0087] BKJD
Rp/R* = 0.0365 [0.0228]
a/R* = 492.26 [905.72]
b = 0.77 [1.00]
Seff = 0.16 [0.03]
Teq = 161 [7] K
Rp = 2.71 [1.71] Re
a = 0.9300 [0.0638] AU
Ag = 48106.32 [62688.38] [0.77 σ]
Teffp = 3683 [1203] K [2.93 σ]

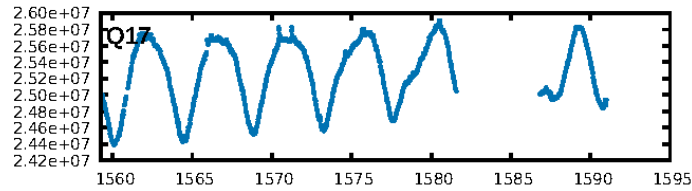
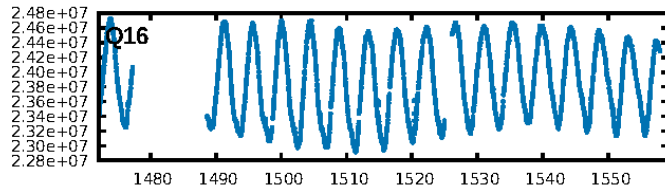
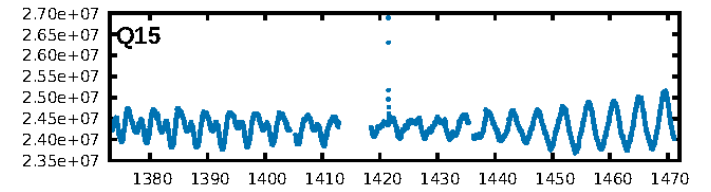
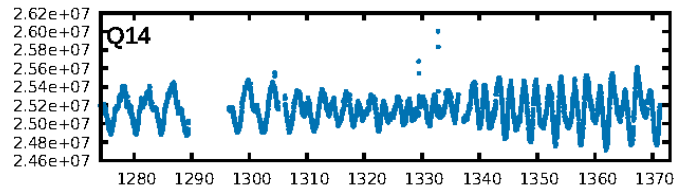
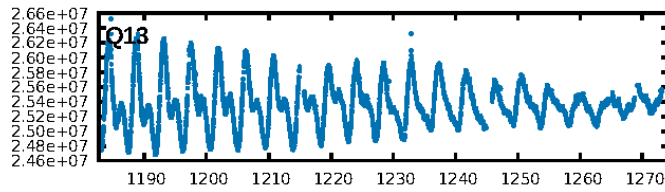
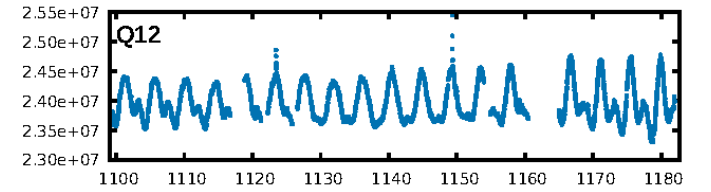
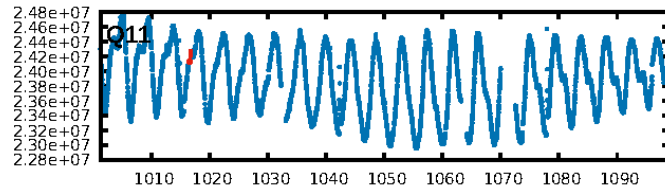
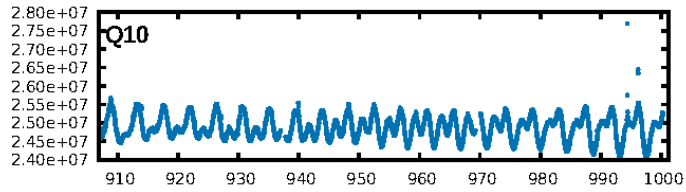
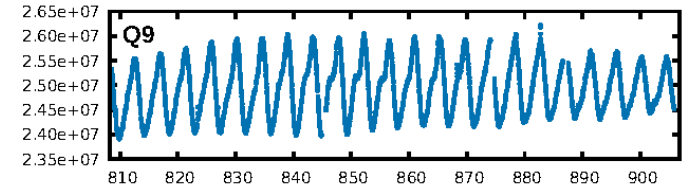
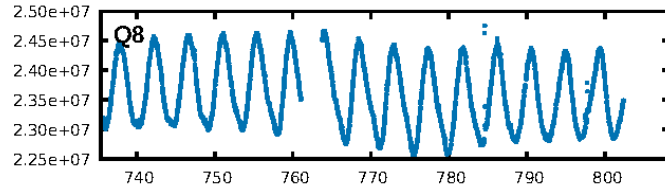
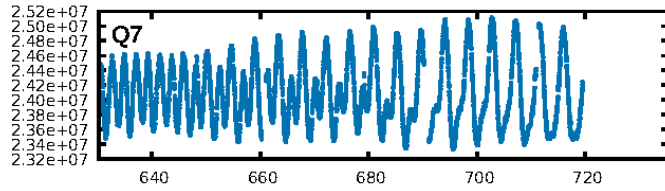
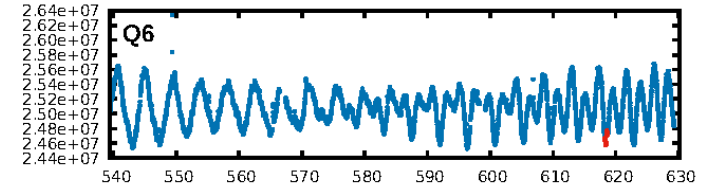
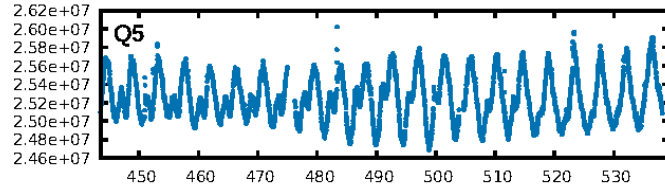
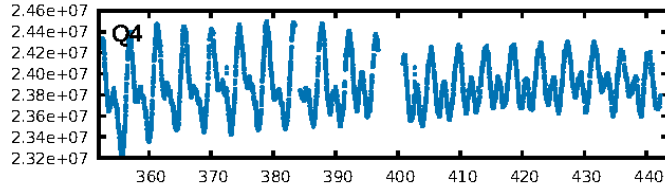
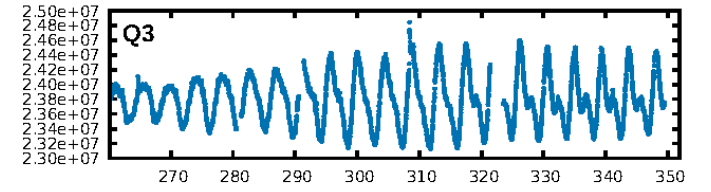
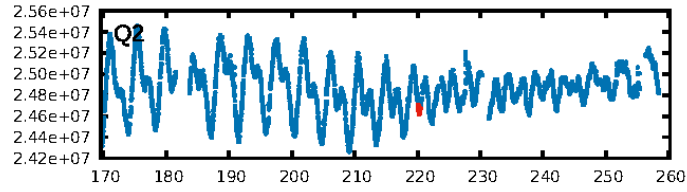
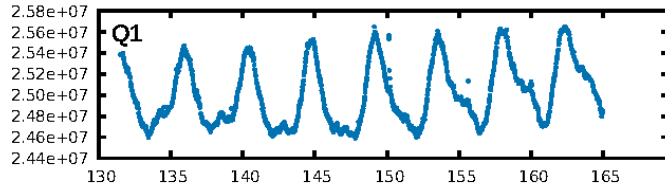
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [57.80 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 21.8%
ModelChiSquareGof-sig: 78.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -69.33
Centroid-sig: 4.2%
Centroid-so: 1.485 arcsec [1.67 σ]
OotOffset-rm: 0.061 arcsec [0.59 σ]
OotOffset-st: 2/0/0 [2]
KicOffset-rm: 0.197 arcsec [1.70 σ]
KicOffset-st: 2/0/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [3/3]

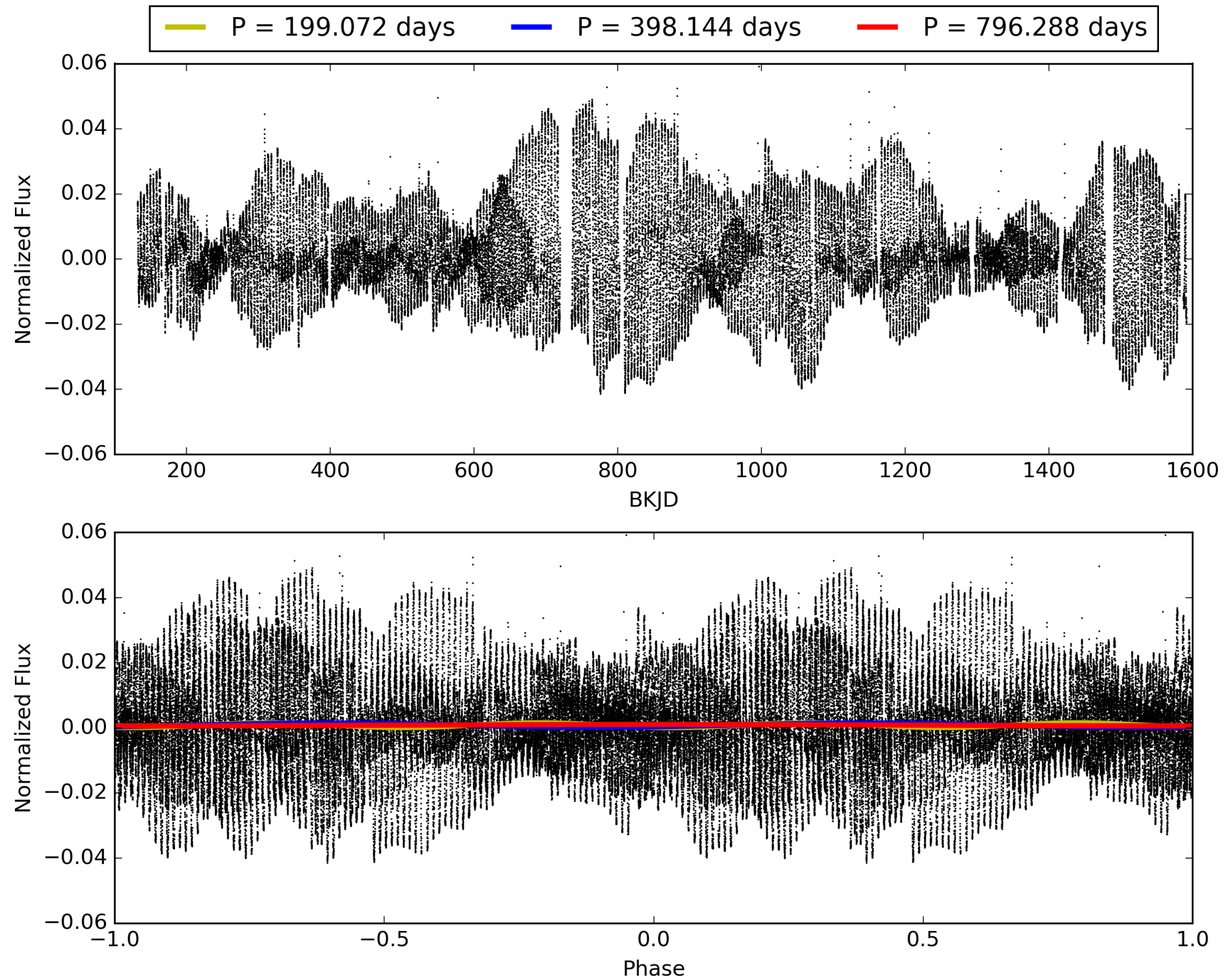
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:56:04 Z

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

TCE 006762923-03, PDC Light Curves

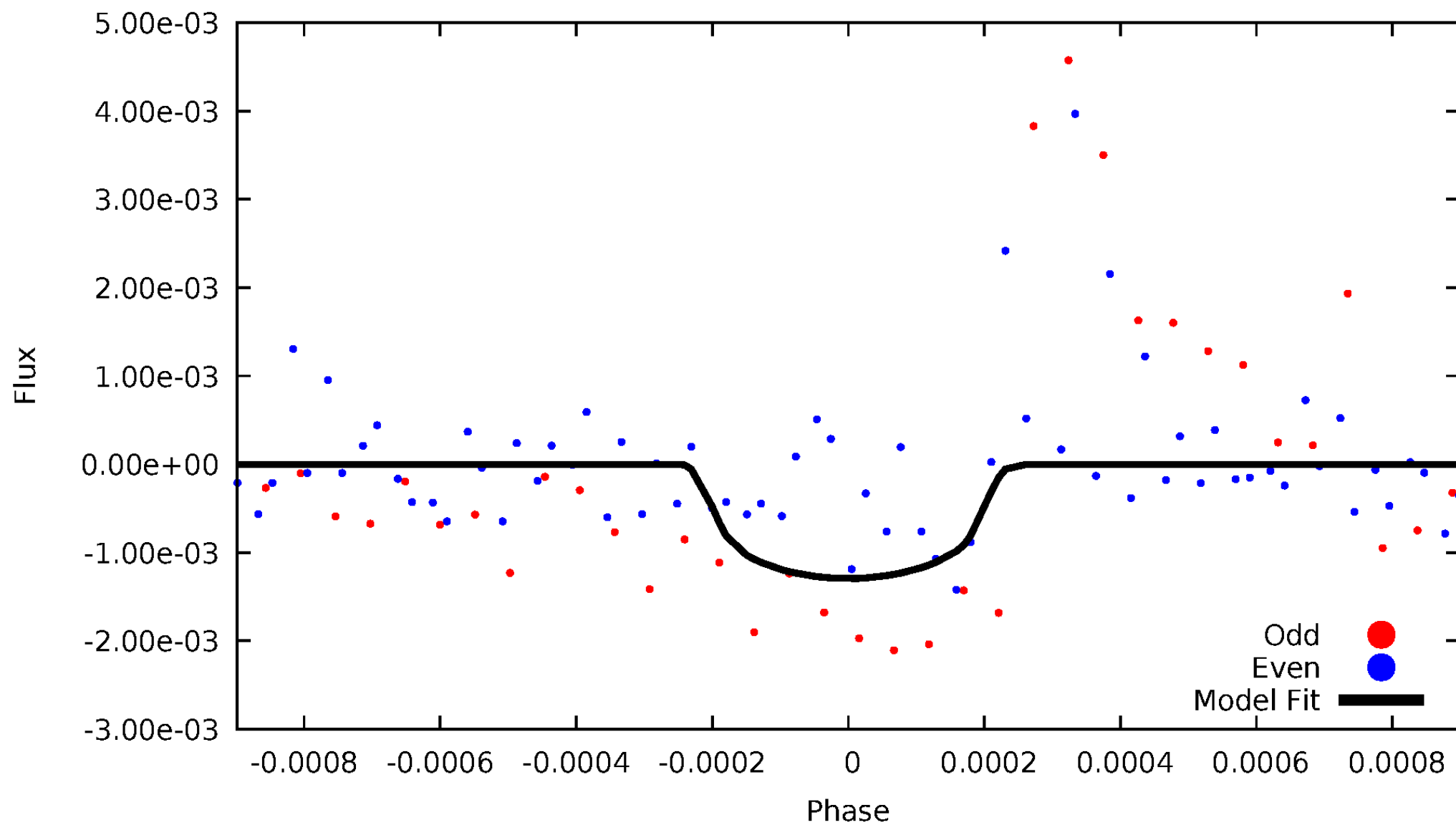


TCE 006762923-03



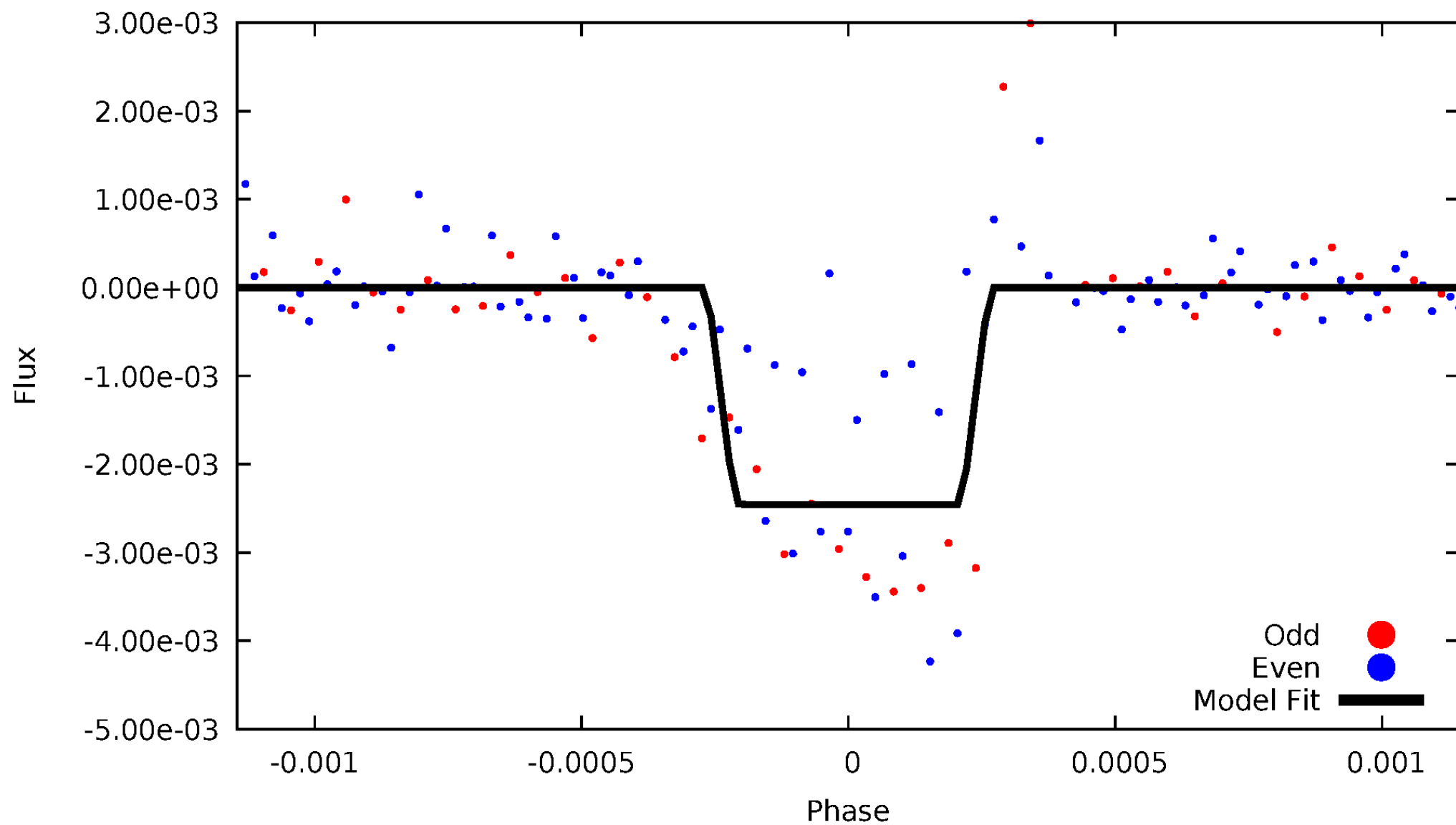
DV Odd/Even

TCE 006762923-03



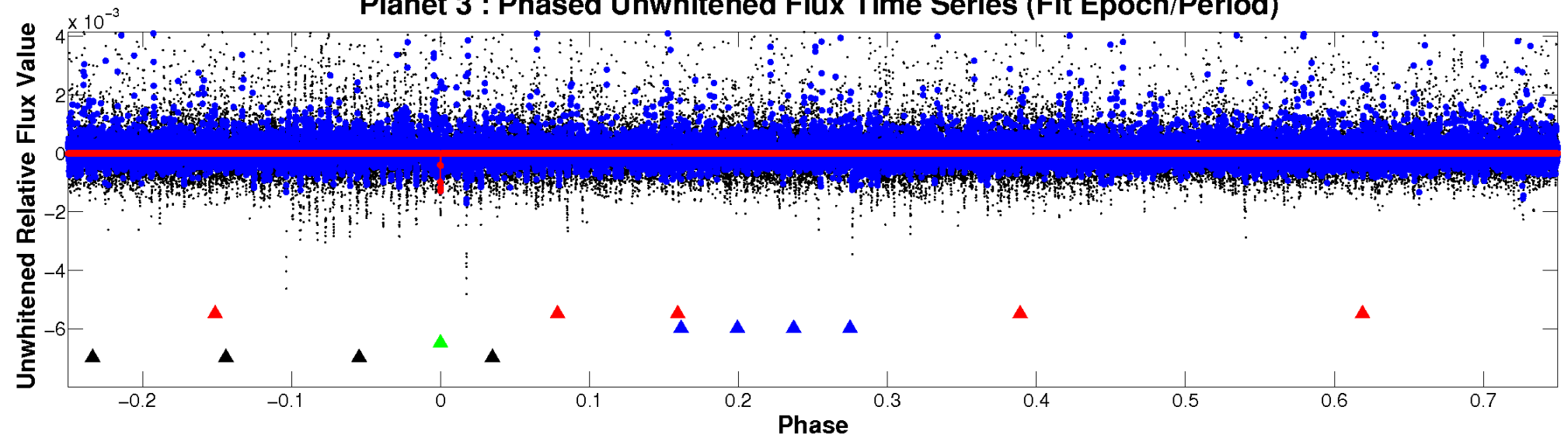
ALT Odd/Even

TCE 006762923-03

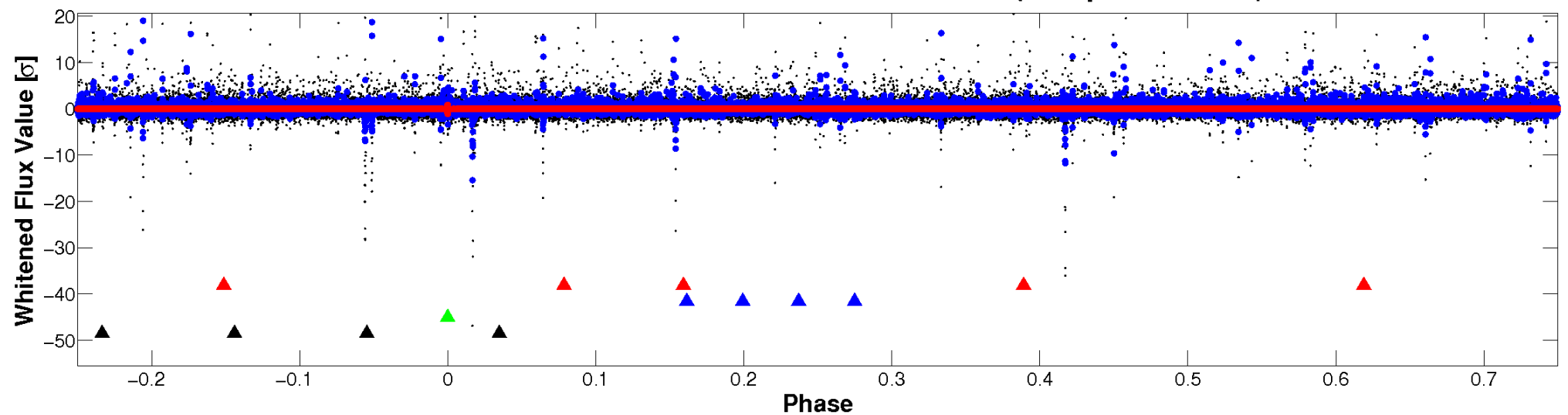


Non-Whitened Vs. Whitened Light Curve

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

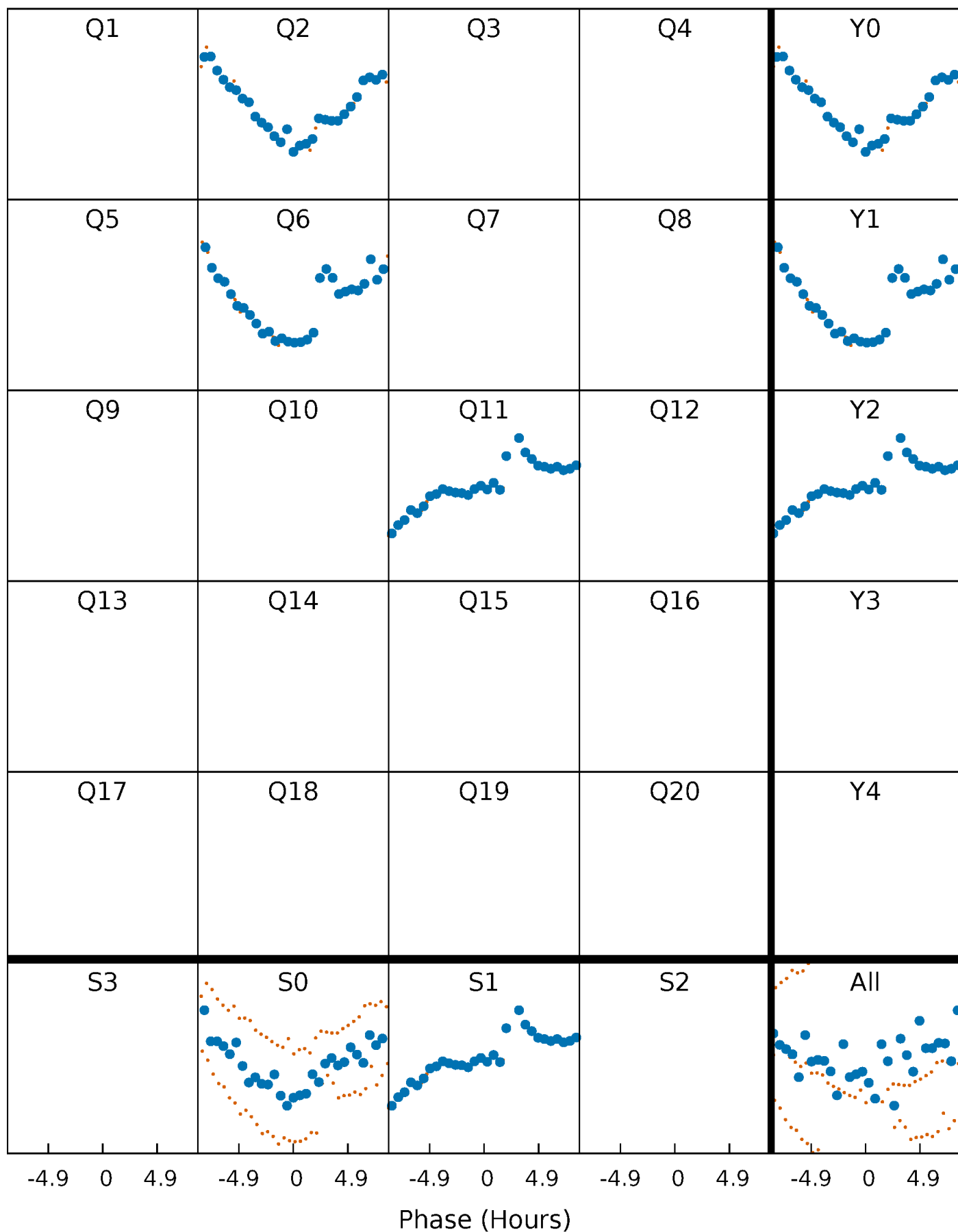


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



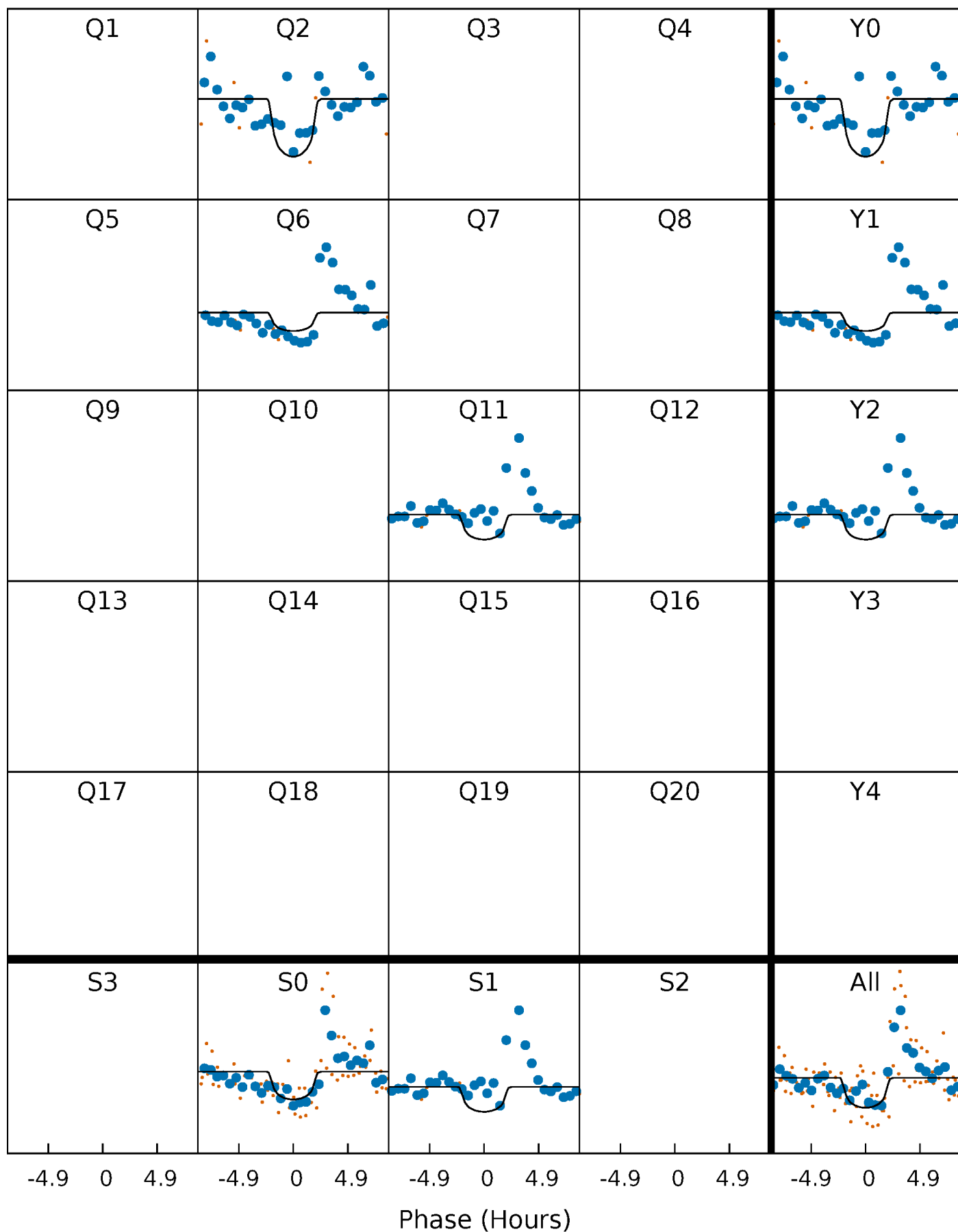
PDC Quarter-Phased Transit Curves

TCE 006762923-03 $P=398.143844$ Days $T_0=220.296278$ (BKJD)



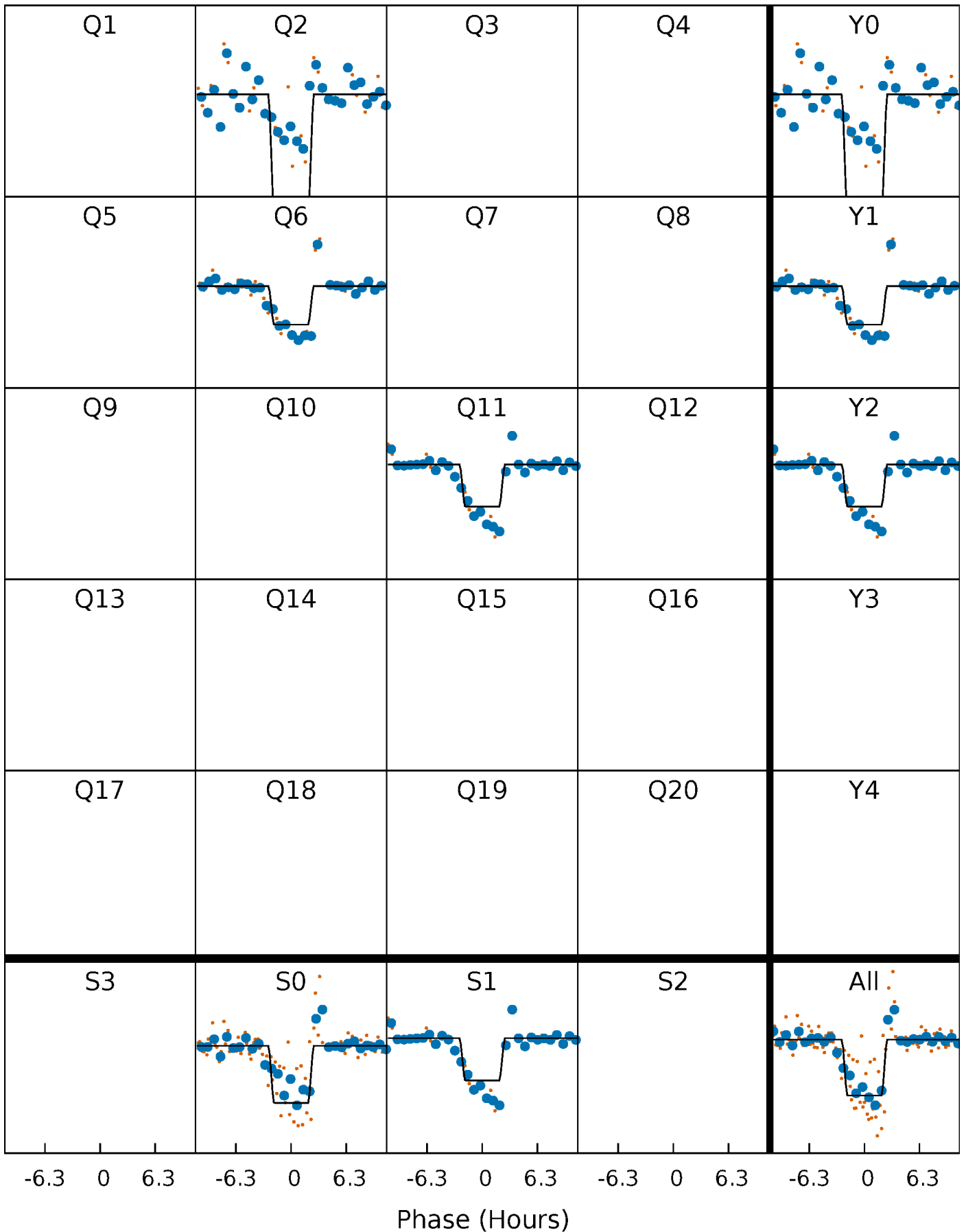
DV Quarter-Phased Transit Curves

TCE 006762923-03 $P=398.143844$ Days $T_0=220.296278$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

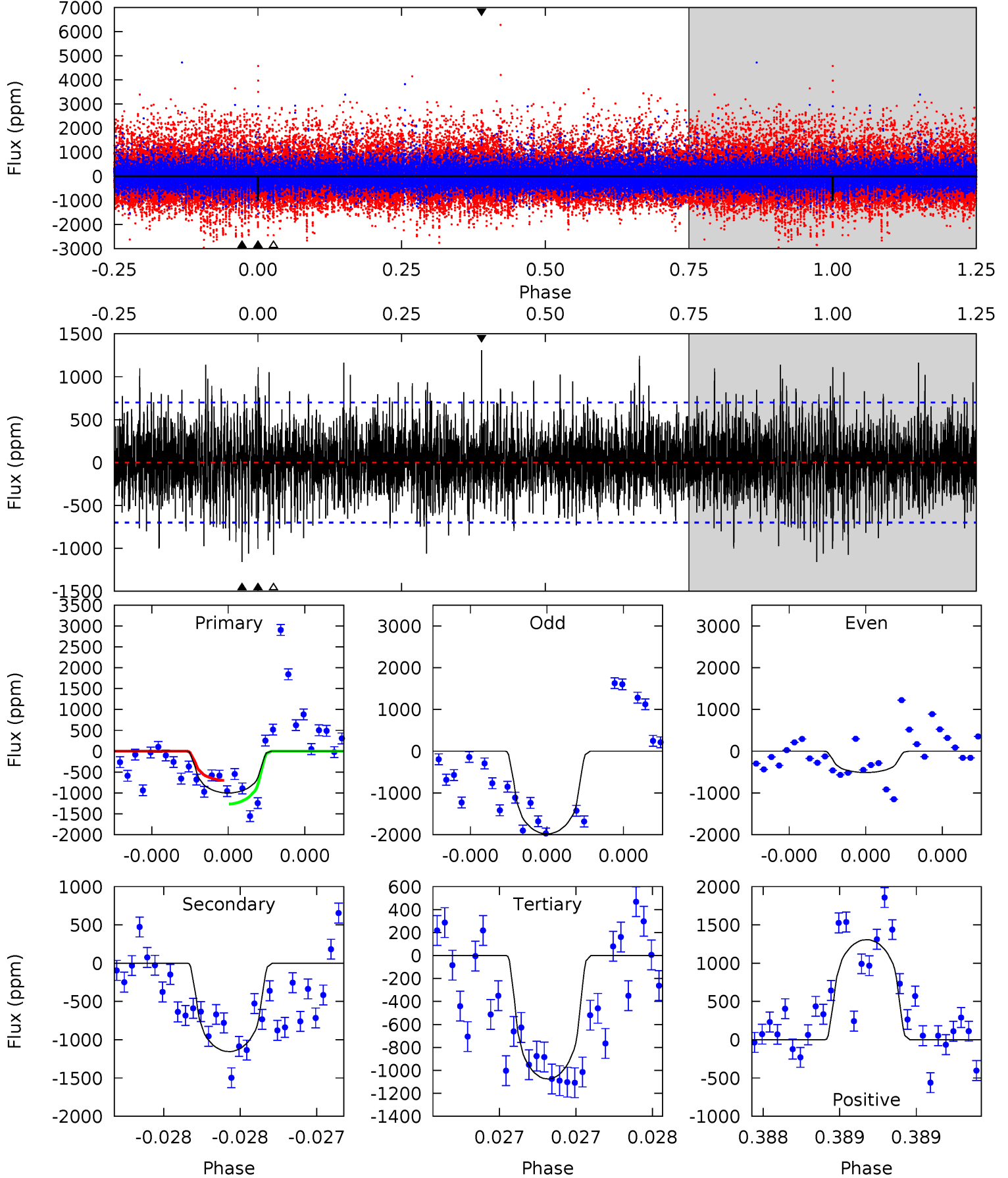
TCE 006762923-03 P=398.141105 Days $T_0=220.291899$ (BKJD)



DV Model-Shift Uniqueness Test

006762923-03, P = 398.143844 Days, E = 220.296278 Days

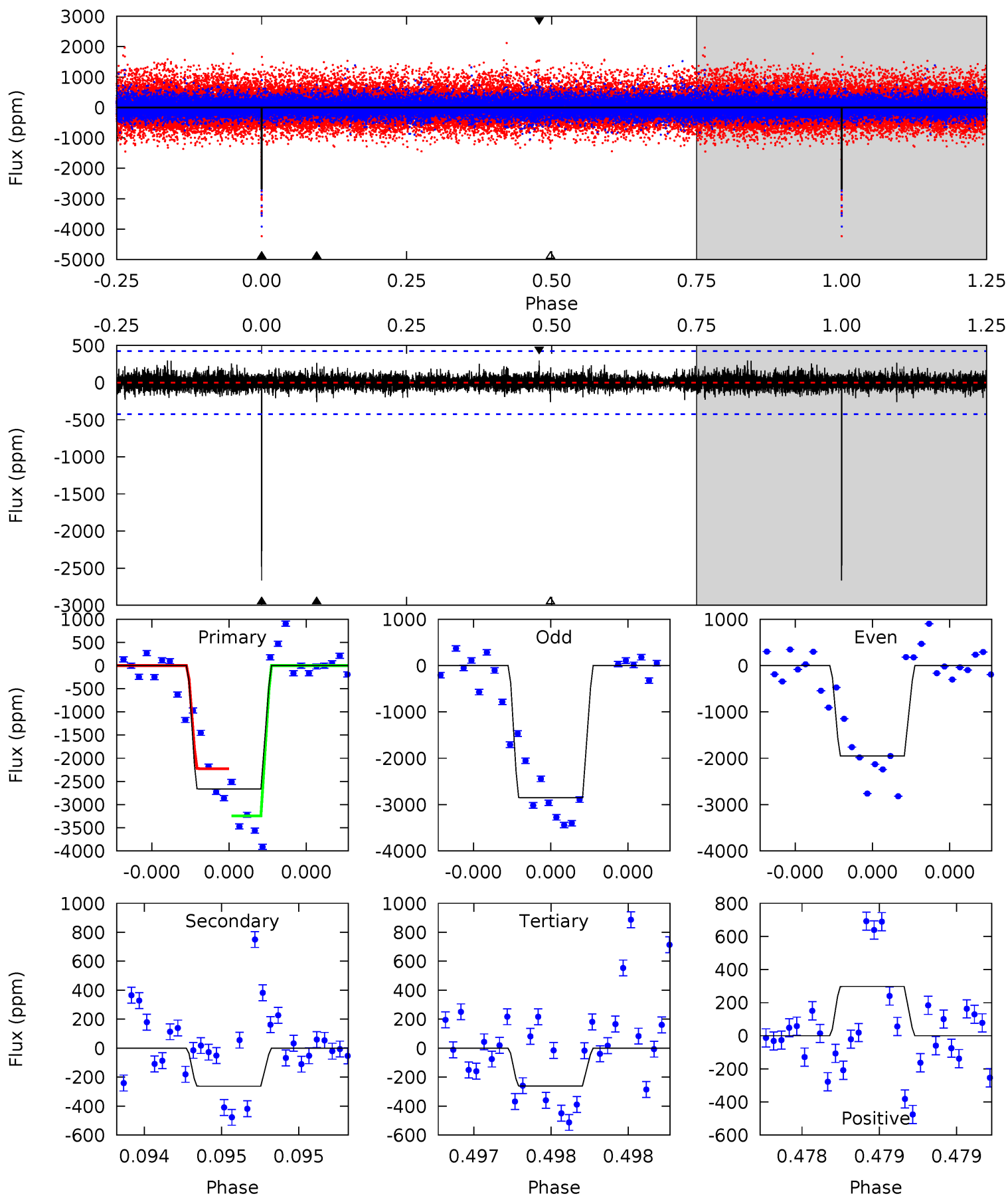
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.01	9.24	8.60	10.5	5.59	3.50	2.21	-0.58	-2.44	0.64	-1.22	4.94	1.38	0.53	2.27



Alt Model-Shift Uniqueness Test

006762923-03, P = 398.141105 Days, E = 220.291899 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.0	3.45	3.43	3.90	5.57	3.48	0.75	31.5	31.1	0.02	-0.46	6.32	0.77	0.10	6.66



Stellar Parameters For KIC 006762923

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4261^{+129}_{-142}	$4.602^{+0.052}_{-0.016}$	$0.220^{+0.200}_{-0.300}$	$0.681^{+0.028}_{-0.057}$	$0.677^{+0.044}_{-0.053}$	$3.016^{+0.695}_{-0.201}$
	+3%/-3%	+1%/-0%	+91%/-136%	+4%/-8%	+6%/-8%	+23%/-7%
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 006762923-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1156 ± 125	$2.74^{+1.61}_{-1.54}$	223^{+8}_{-9}	4118^{+1729}_{-601}	$76261^{+314980}_{-47168}$
Alt.	-263 ± 76	$3.66^{+1.78}_{-1.65}$	223^{+8}_{-8}	2947^{+624}_{-318}	8904^{+22206}_{-5097}

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 $A_{obs} \gg 1.0$

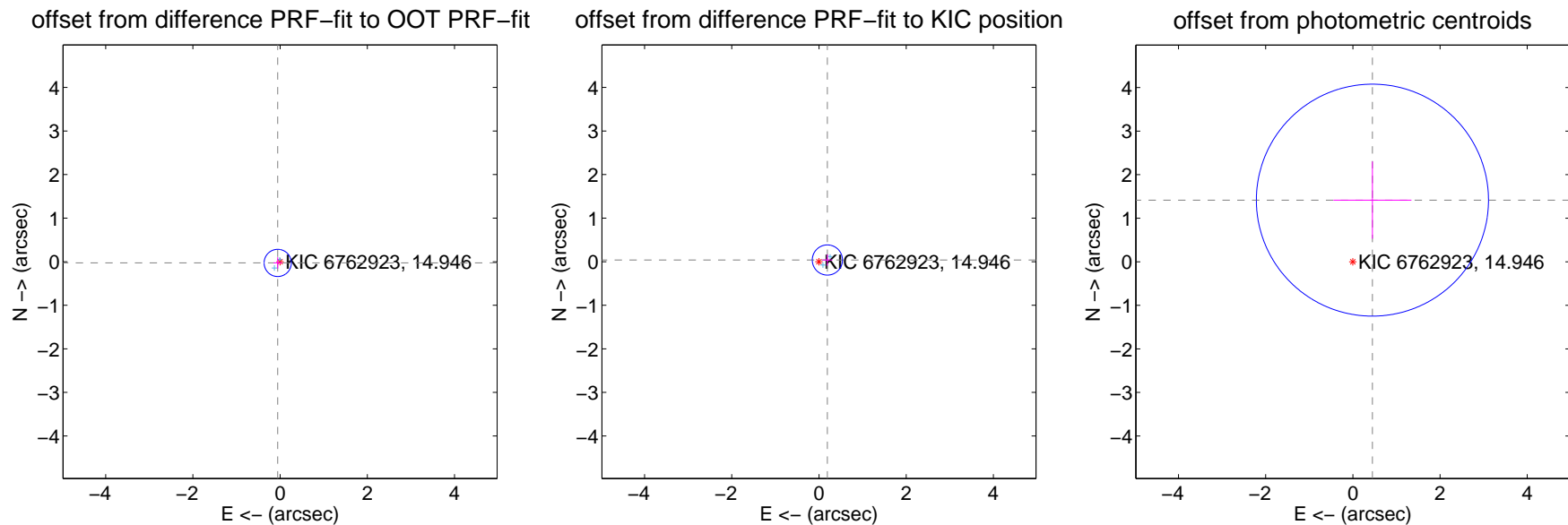
DV Centroid Data

Supplemental centroid analysis for 006762923-03. Kepler magnitude: 14.95. Transit SNR 5.22

There are 2 quarters with good PRF difference image offsets

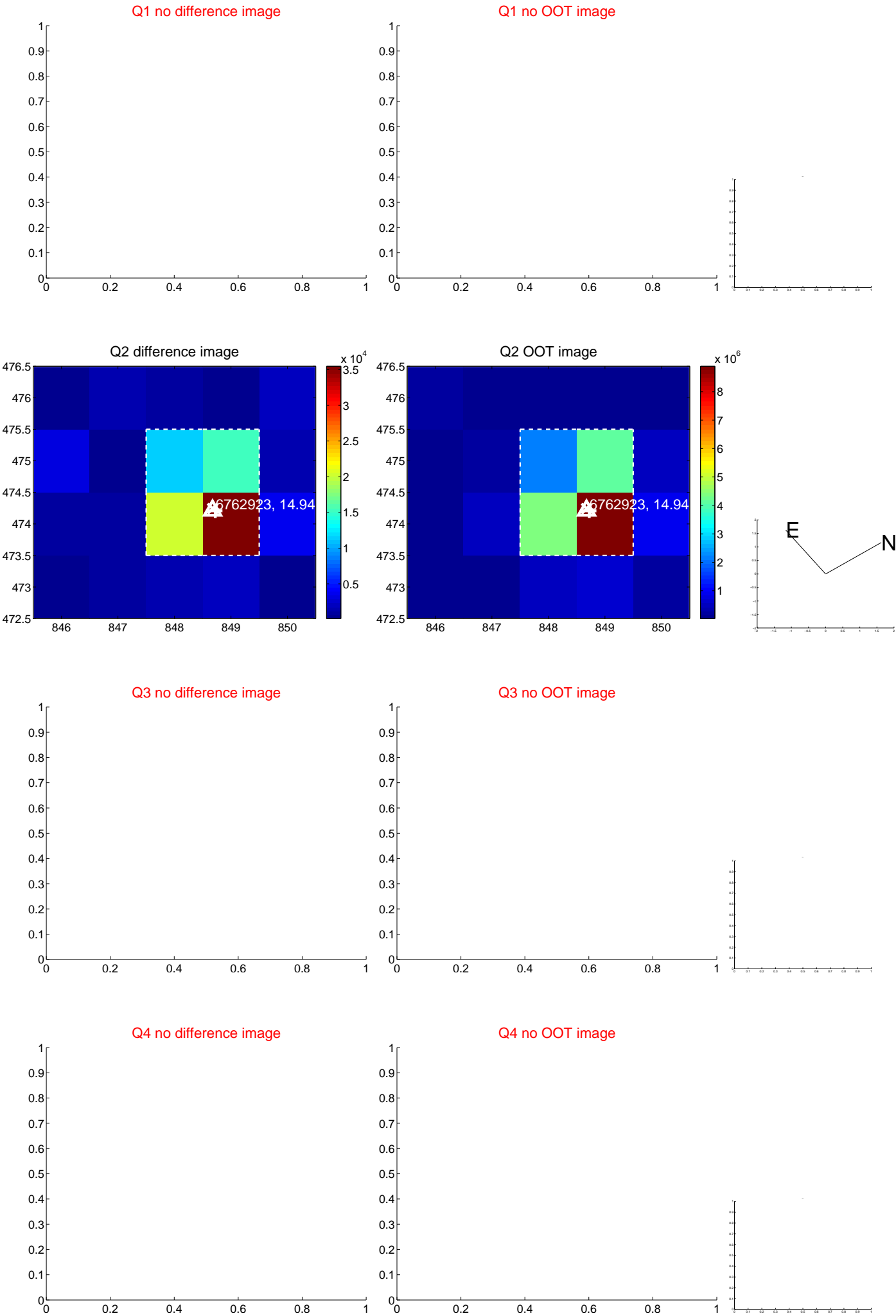
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.061 ± 0.104	0.59	0.055 ± 0.096	-0.028 ± 0.130
PRF-fit source offset from KIC position	0.197 ± 0.116	1.70	-0.193 ± 0.115	0.039 ± 0.130
photometric centroid source offset	1.48 ± 0.89	1.67	-0.45 ± 0.90	1.41 ± 0.89

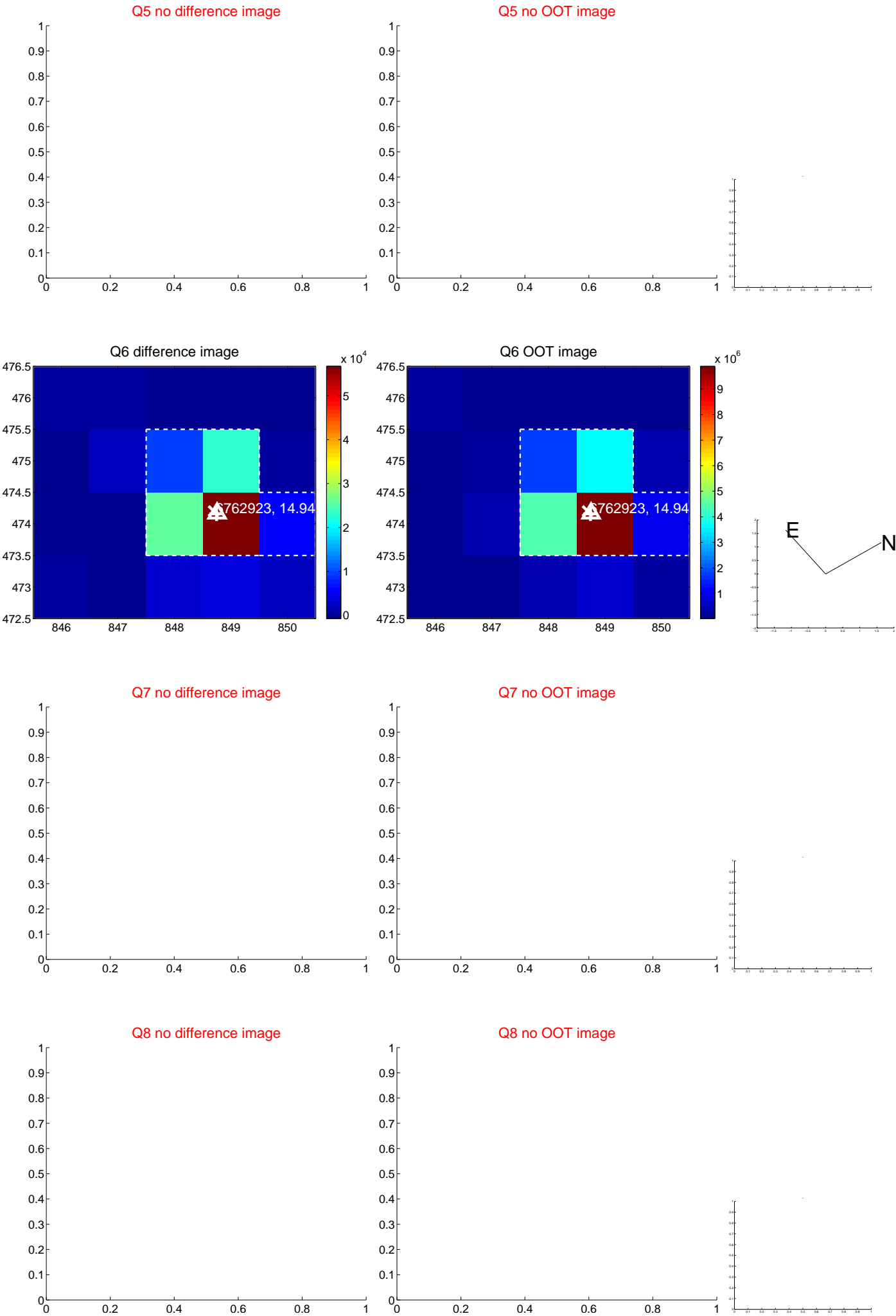


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

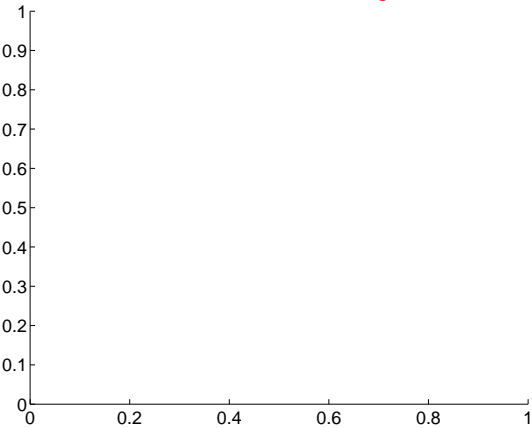
Q9 no difference image



Q9 no OOT image



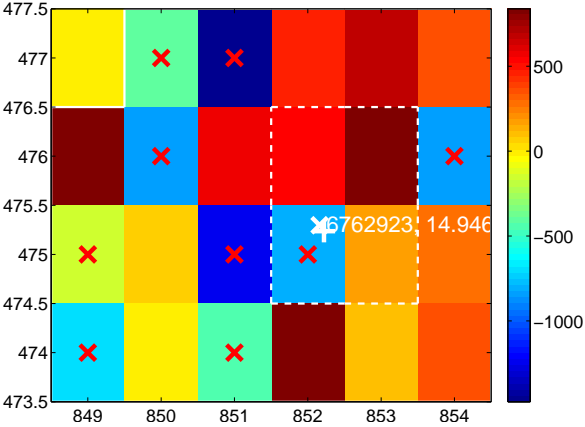
Q10 no difference image



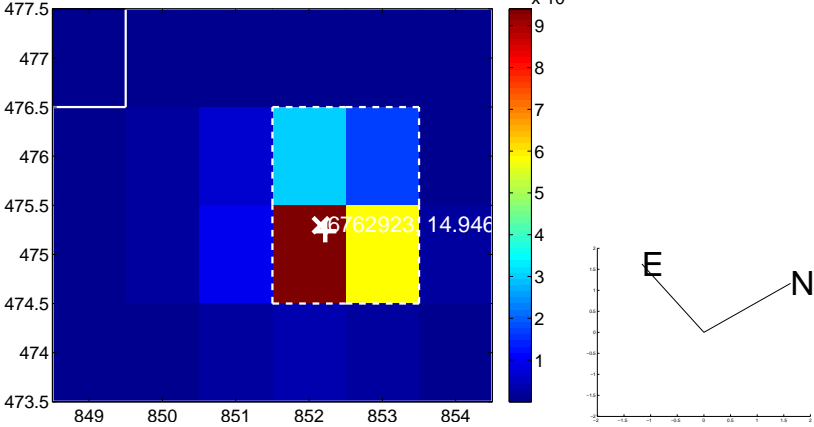
Q10 no OOT image



Q11 difference image. Poor Quality



Q11 OOT image



Q12 no difference image



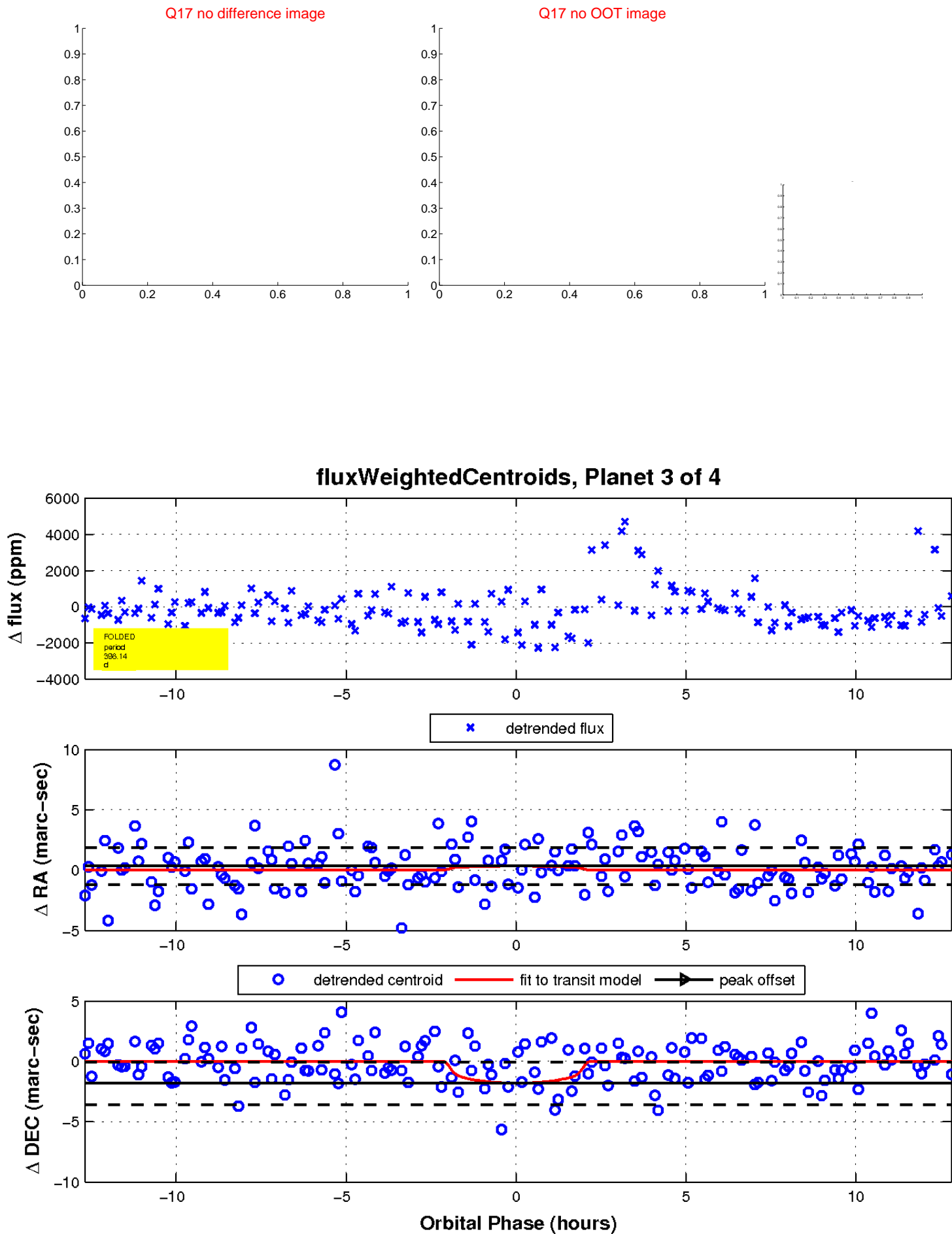
Q12 no OOT image



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

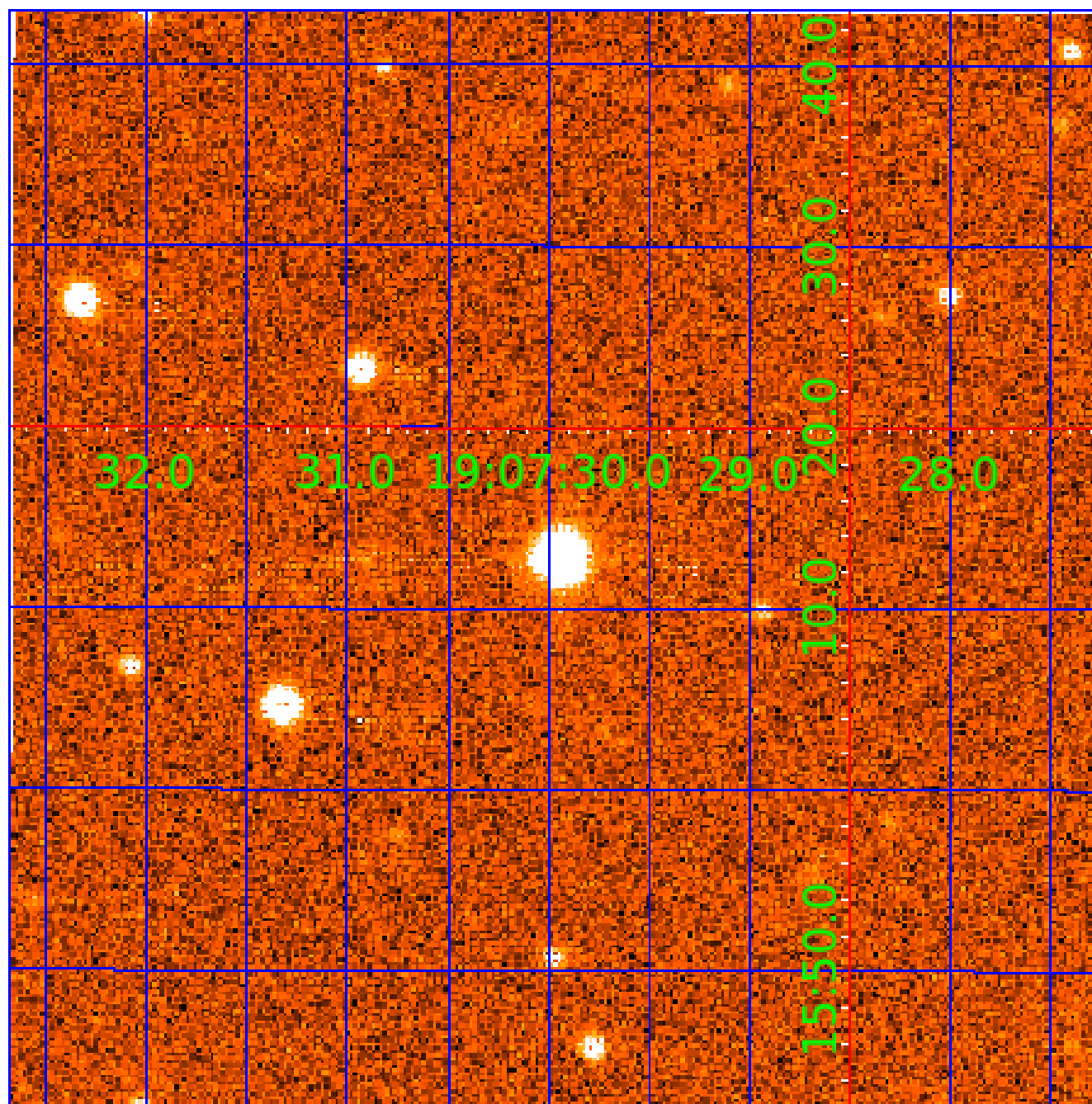


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006762923

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})
006762923-01	OBS	No	306.638418	251.577448	699.4	2.629	10.7	3.6	0.68	4261	2.22	0.22
006762923-02	OBS	No	383.094010	329.749905	2667.3	4.542	12.4	10.2	0.68	4261	7.09	0.17
006762923-03	OBS	No	398.143844	220.296278	1292.9	4.292	12.1	5.2	0.68	4261	2.71	0.16
006762923-04	OBS	No	362.532222	234.172605	1014.8	5.000	11.5	-1.0	0.68	4261	2.06	0.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006762923-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS— HALO_GHOST
006762923-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006762923-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

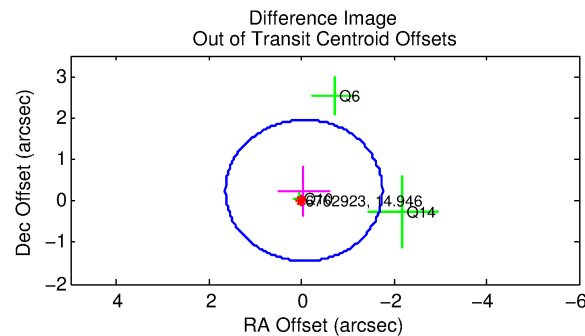
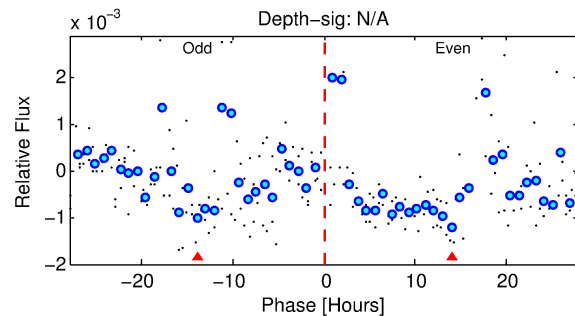
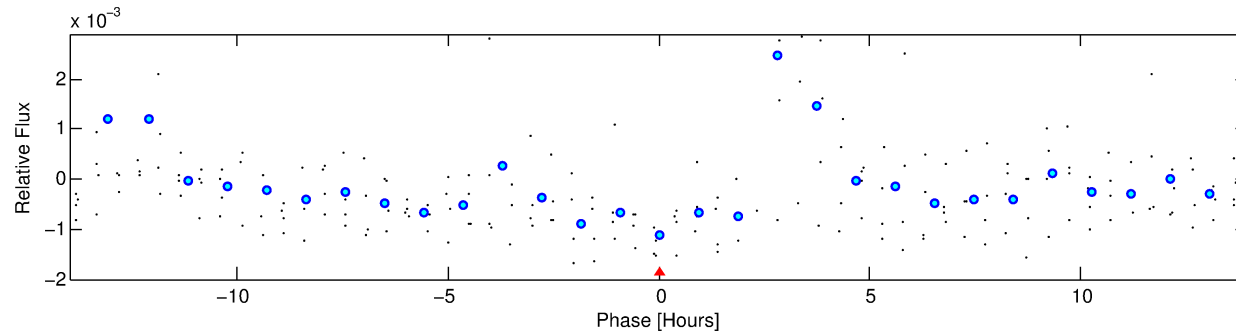
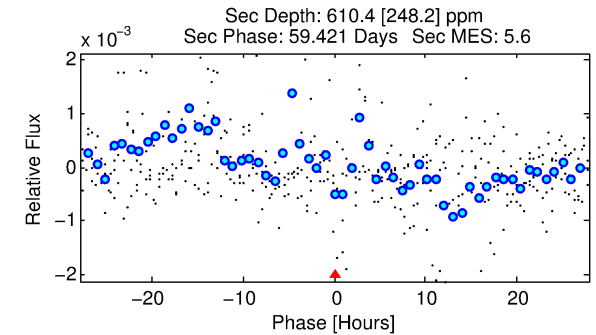
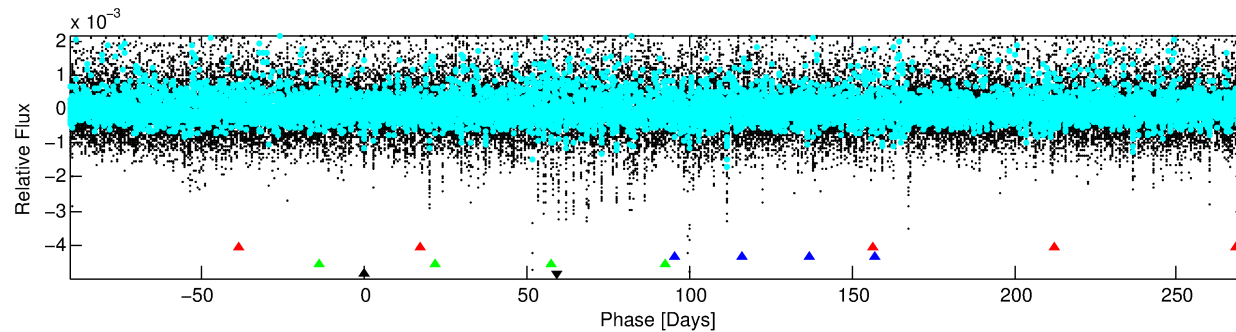
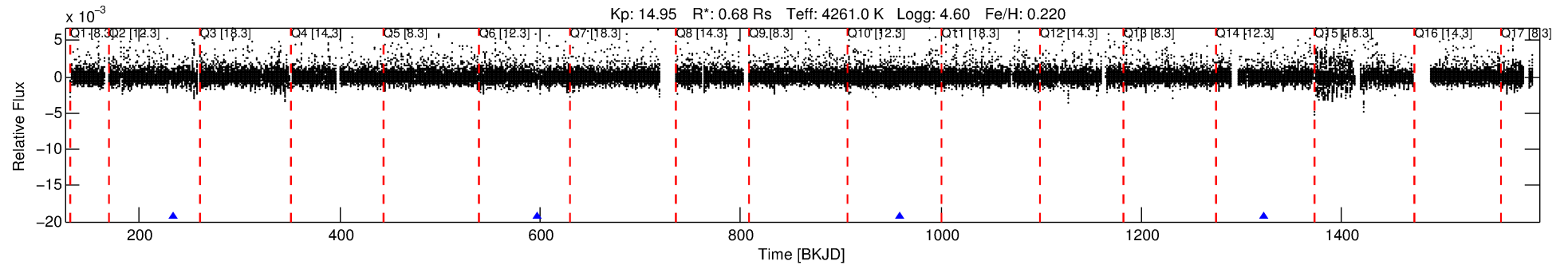
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006762923-04

No Significant Match Found

DV One-Page Summary

KIC: 6762923 Candidate: 4 of 4 Period: 362.532 d



TPS TCE Results:

Period = 362.53222 d
Epoch = 234.1726 BKJD

DV fit results are unavailable

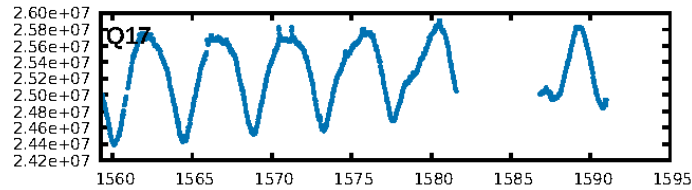
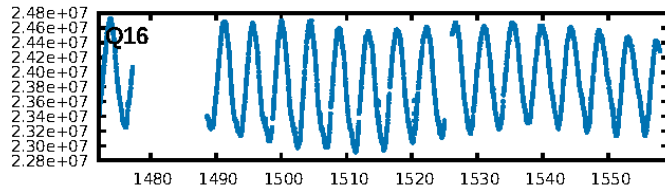
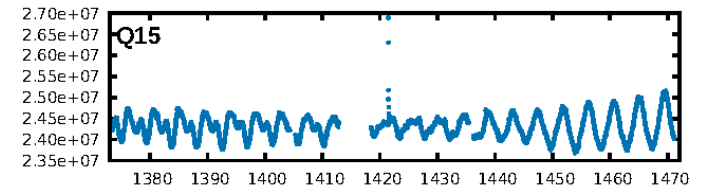
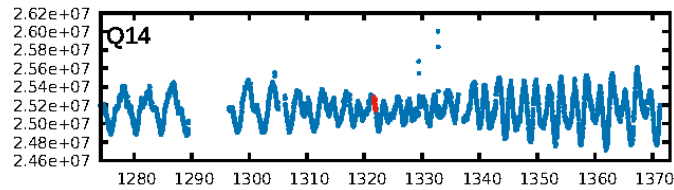
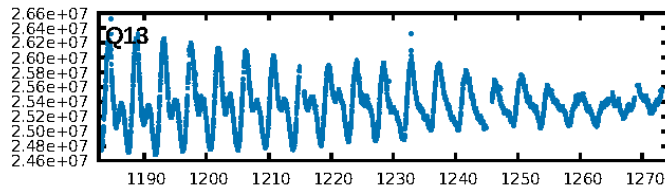
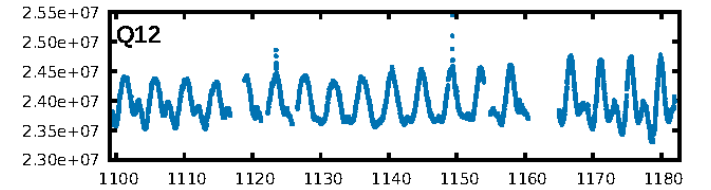
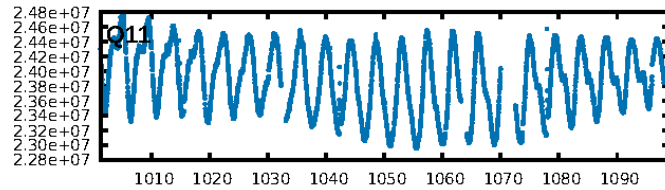
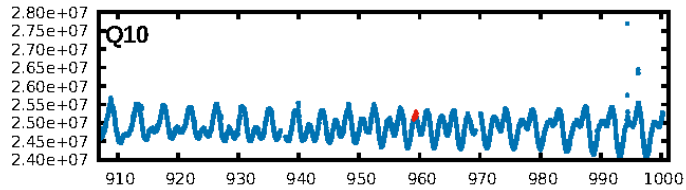
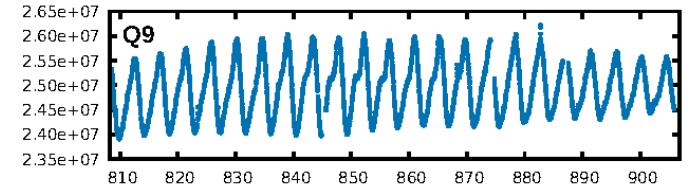
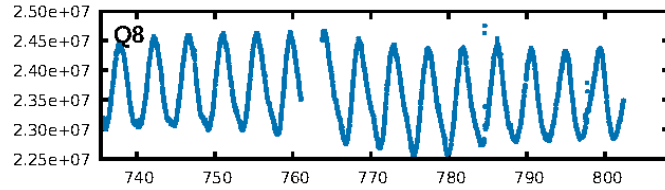
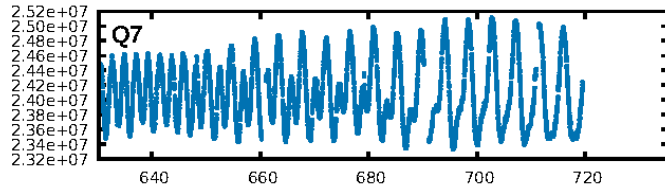
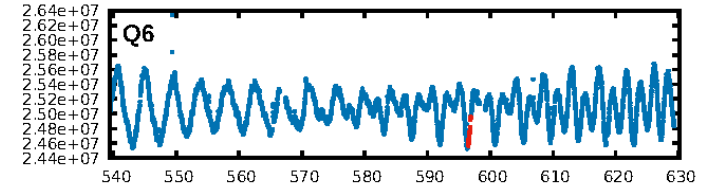
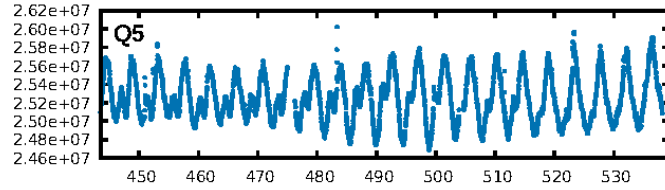
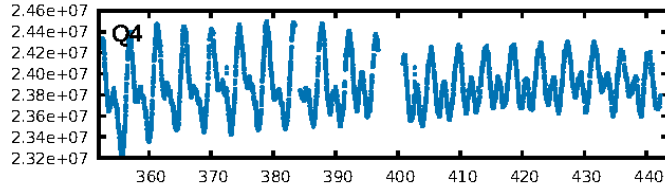
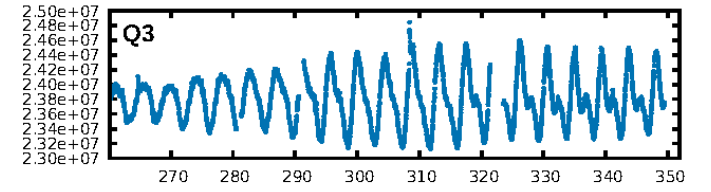
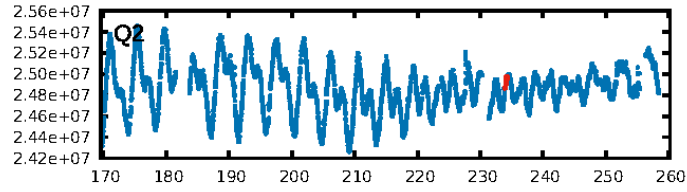
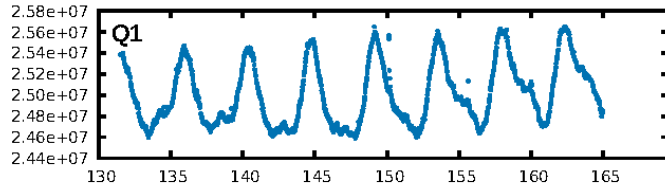
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [237.46 σ]
LongPeriod-sig: 100.0% [73.05 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 2.918
Centroid-sig: 2.7%
Centroid-so: 0.920 arcsec [1.68 σ]
OotOffset-rm: 0.256 arcsec [0.45 σ]
KicOffset-rm: 0.446 arcsec [0.89 σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [4/4]

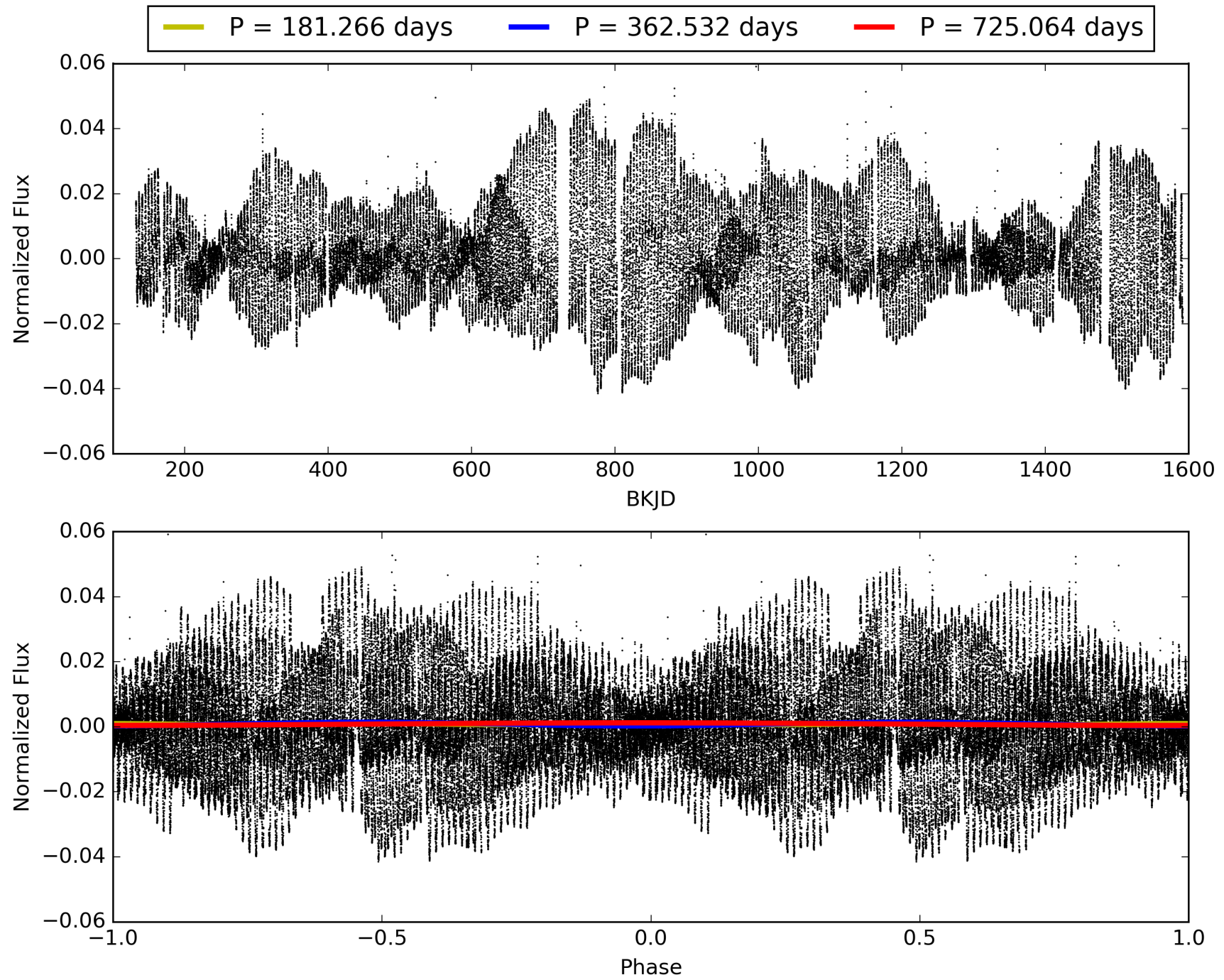
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:56:17 Z

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TCE 006762923-04, PDC Light Curves

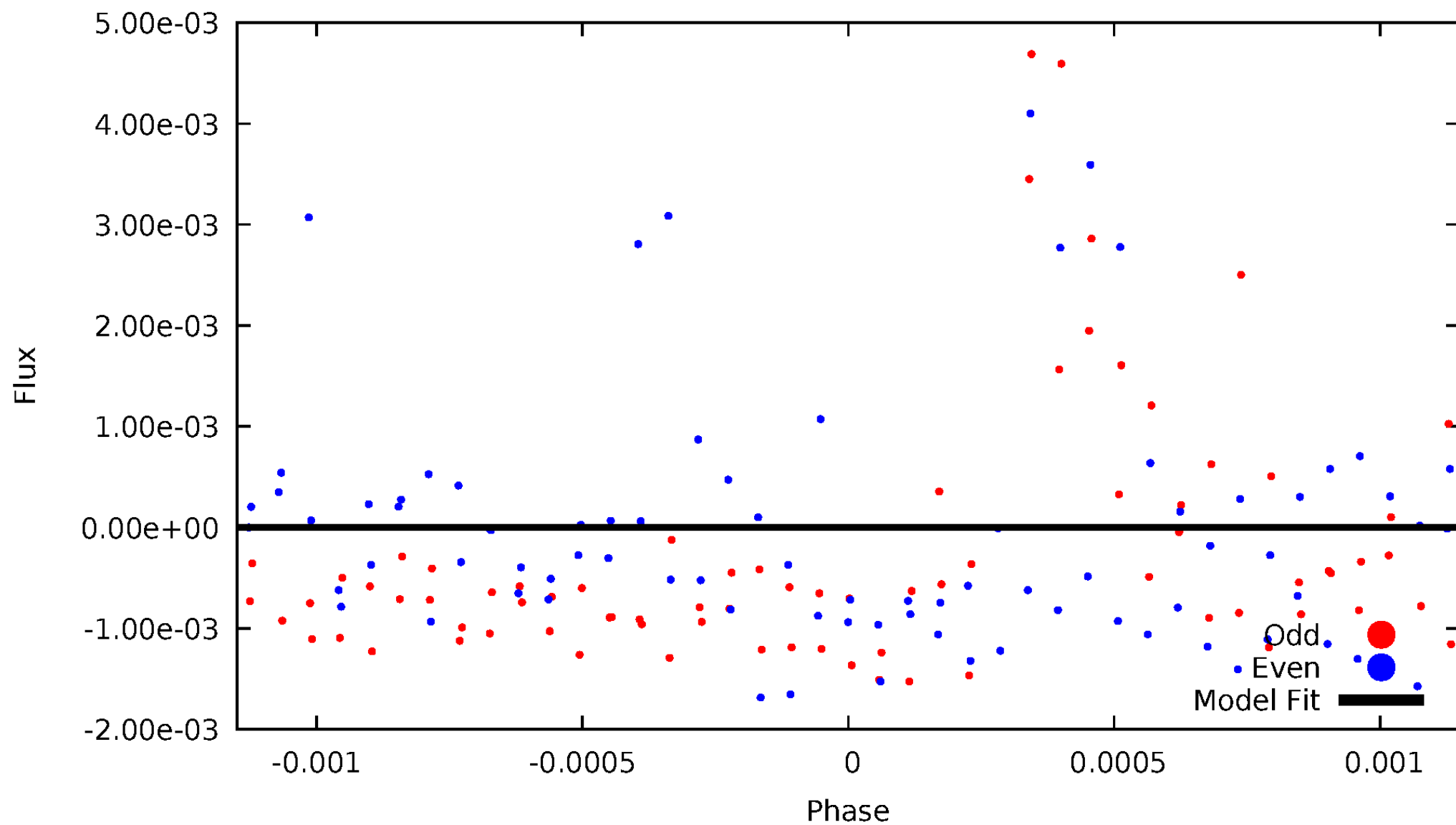


TCE 006762923-04



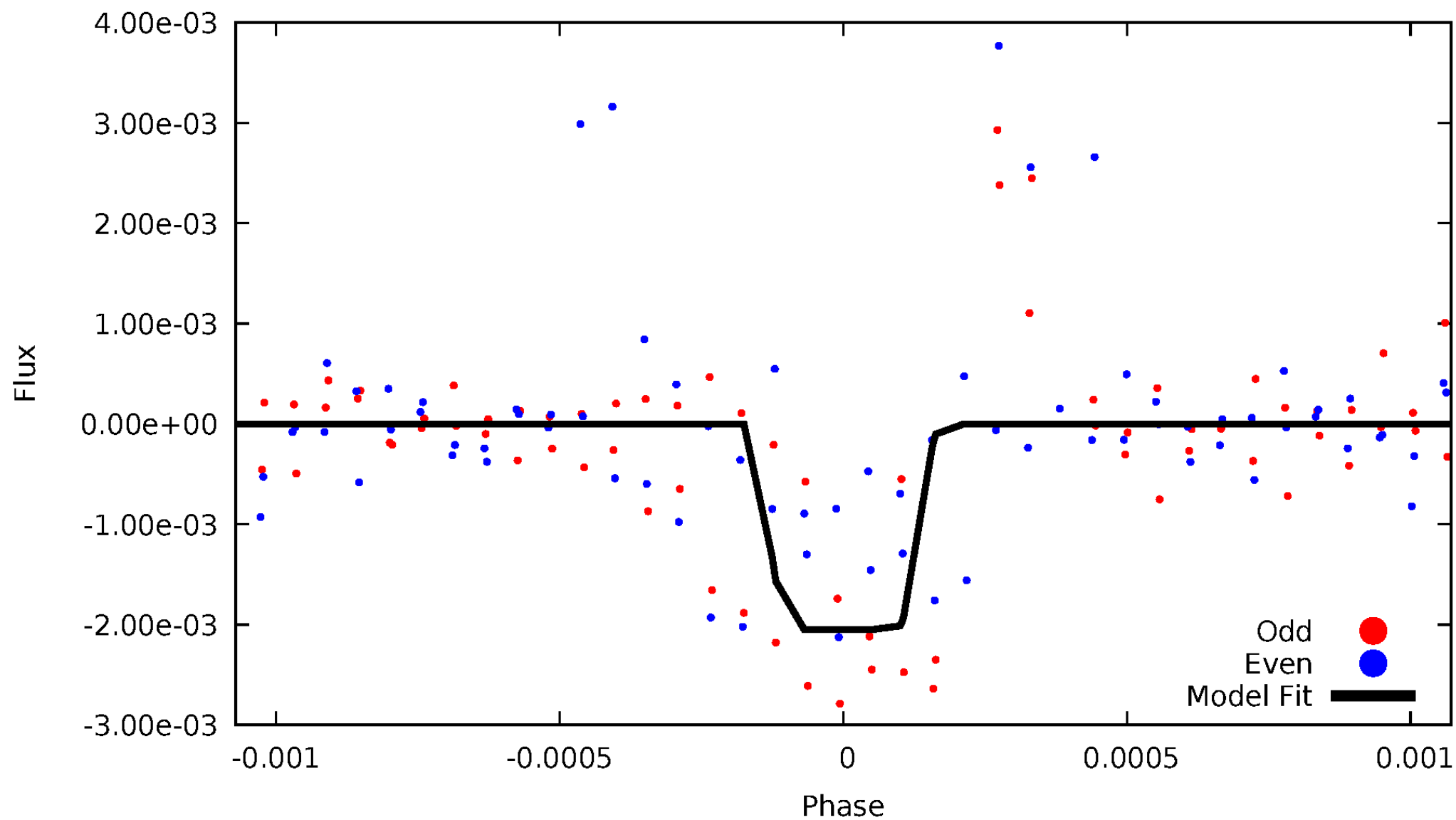
DV Odd/Even

TCE 006762923-04



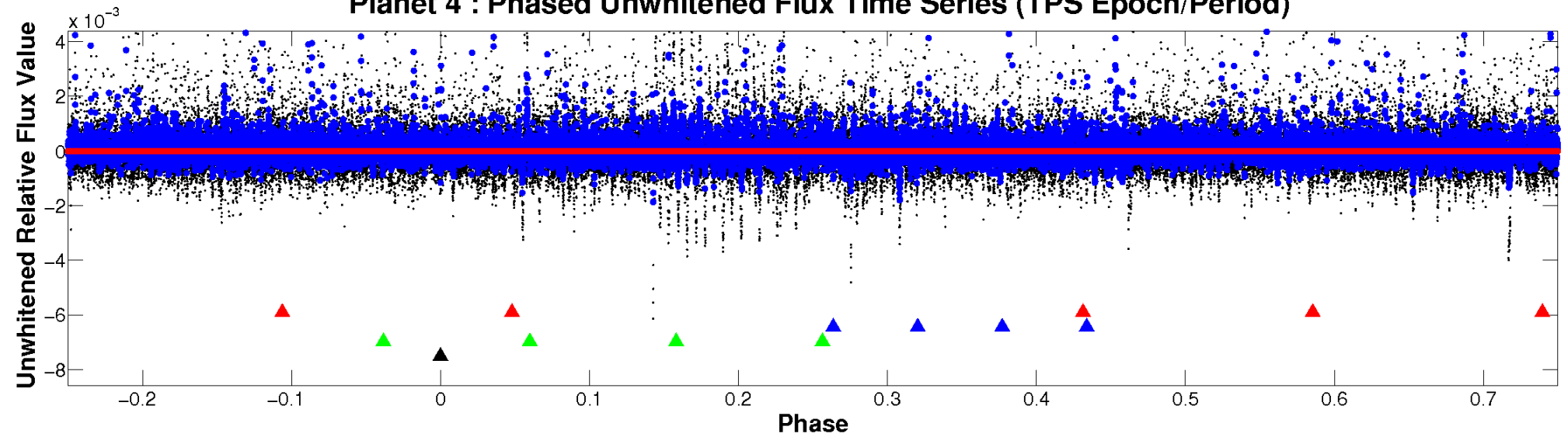
ALT Odd/Even

TCE 006762923-04

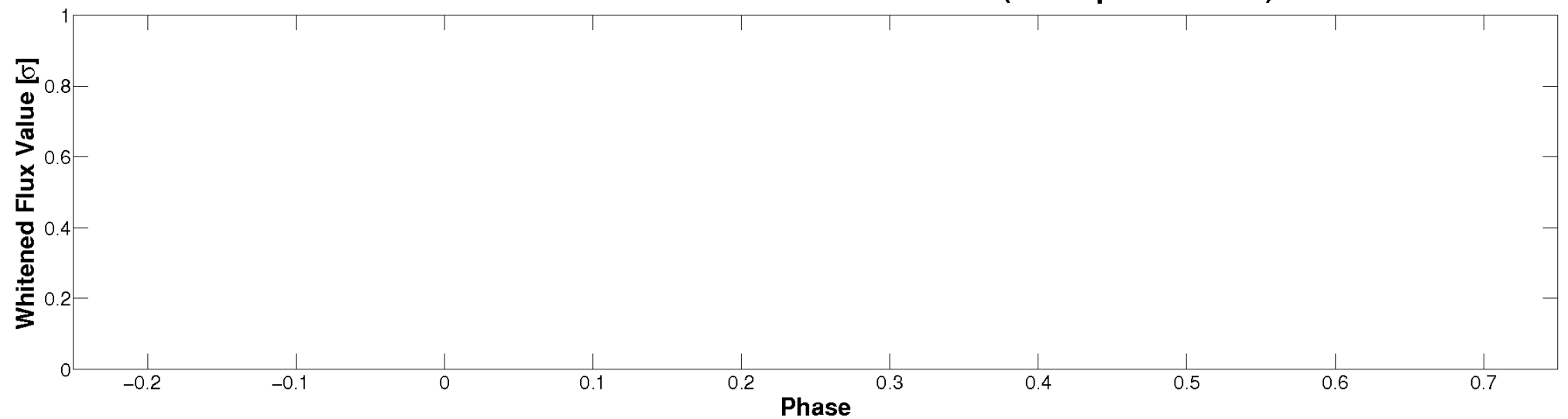


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

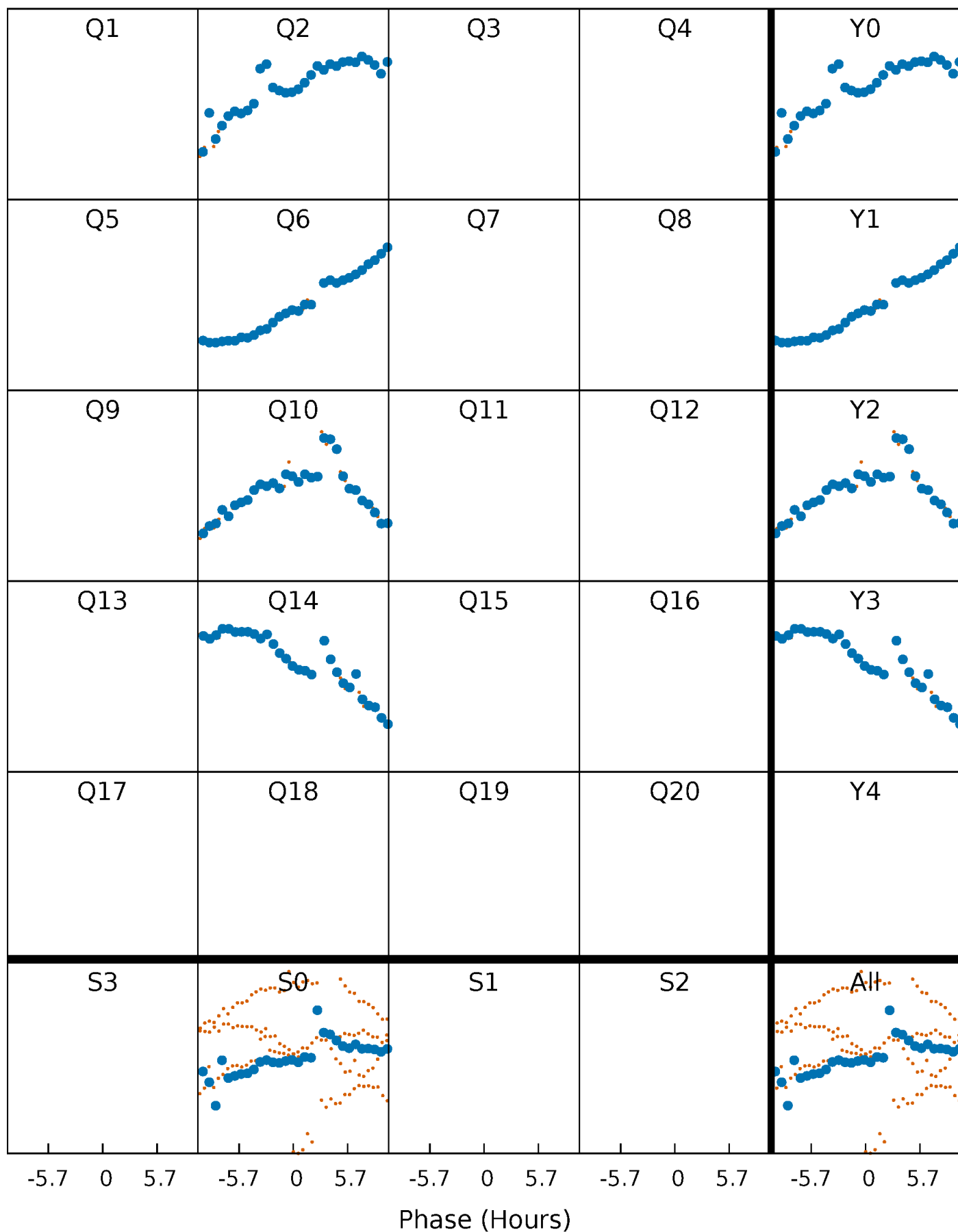


Planet 4 : Phased Whitened Flux Time Series (TPS Epoch/Period)



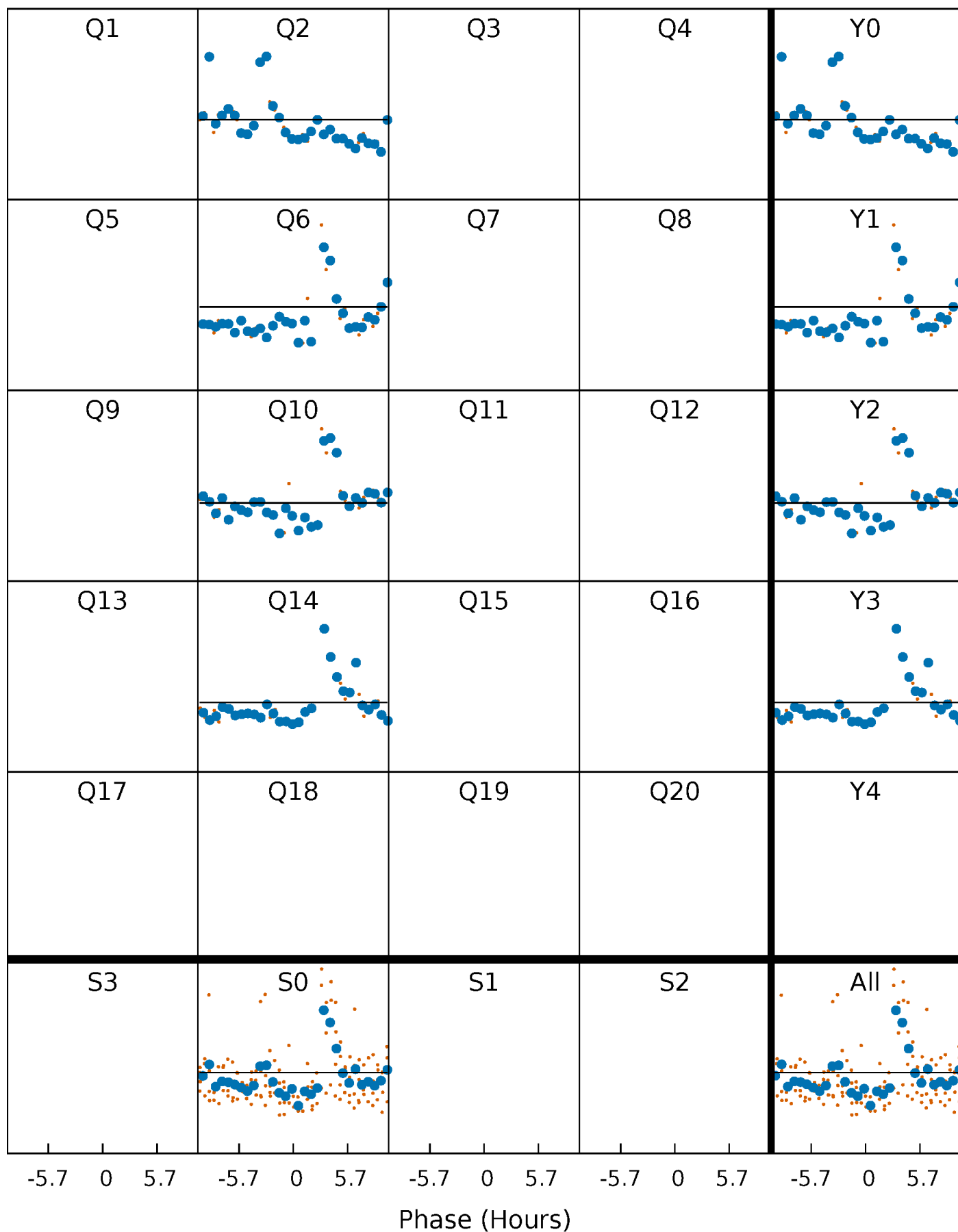
PDC Quarter-Phased Transit Curves

TCE 006762923-04 P=362.532221 Days $T_0=234.172605$ (BKJD)



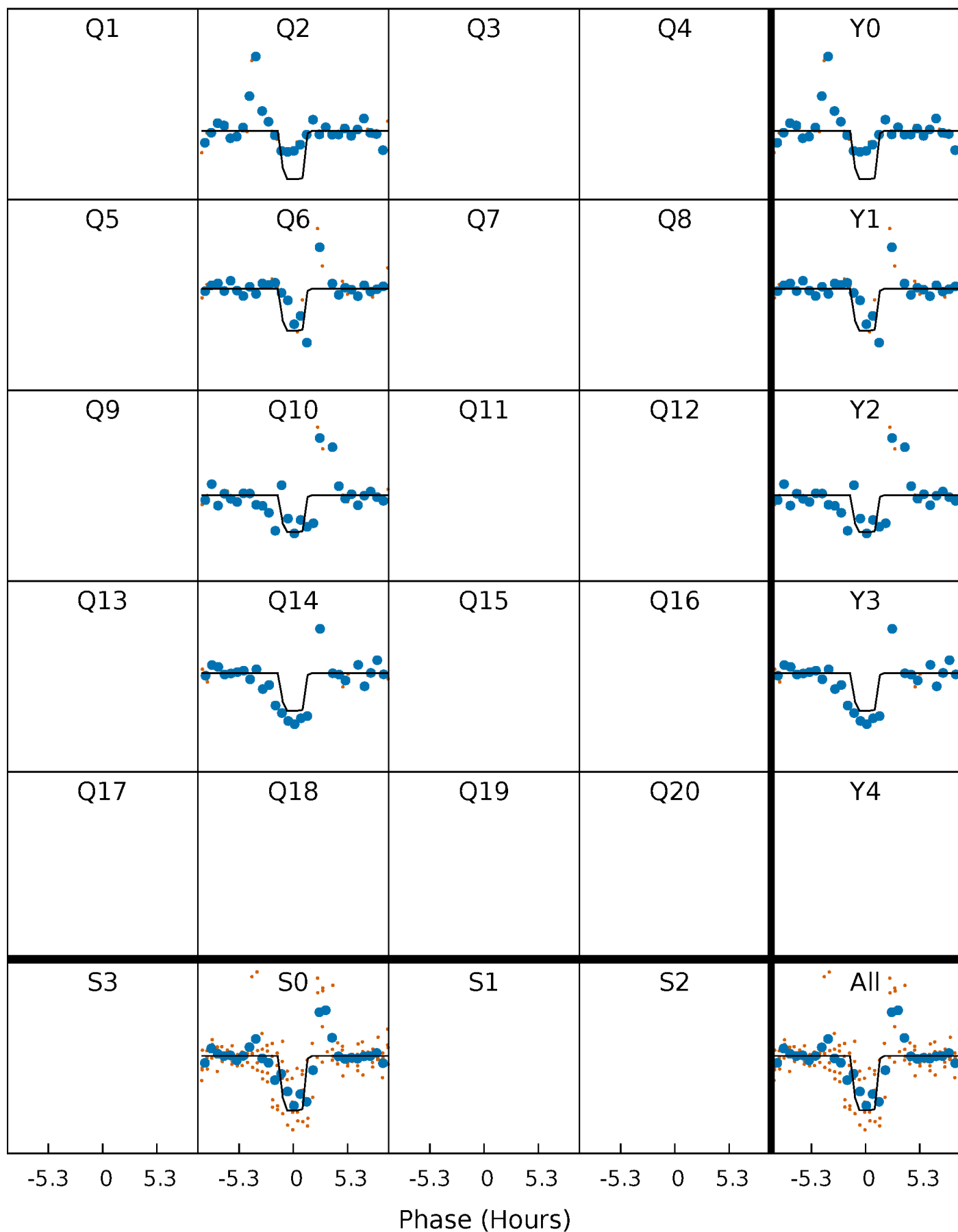
DV Quarter-Phased Transit Curves

TCE 006762923-04 P=362.532221 Days $T_0=234.172605$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

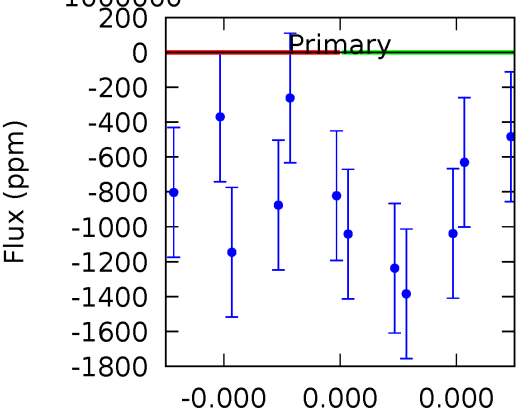
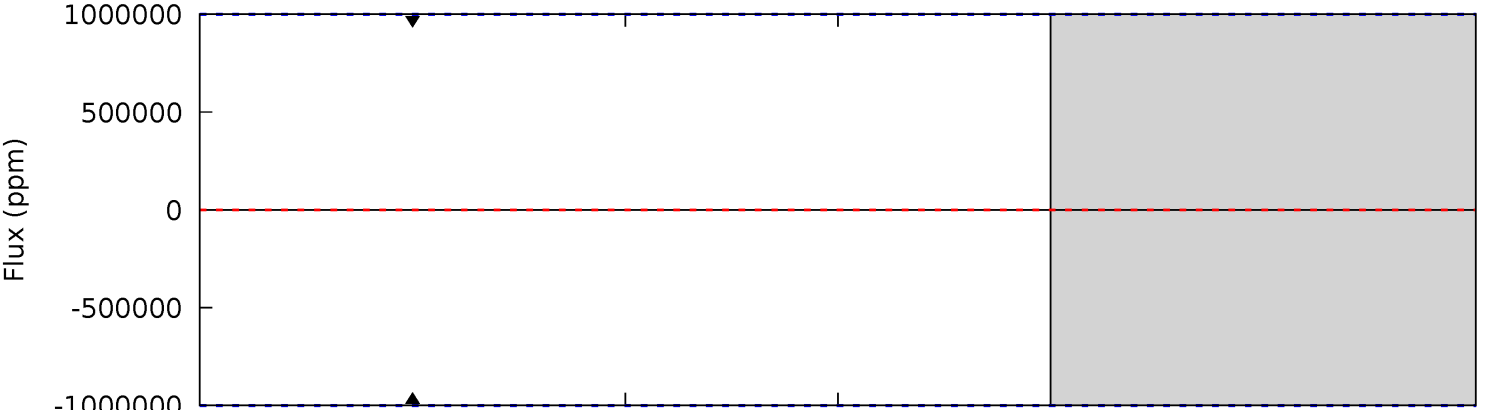
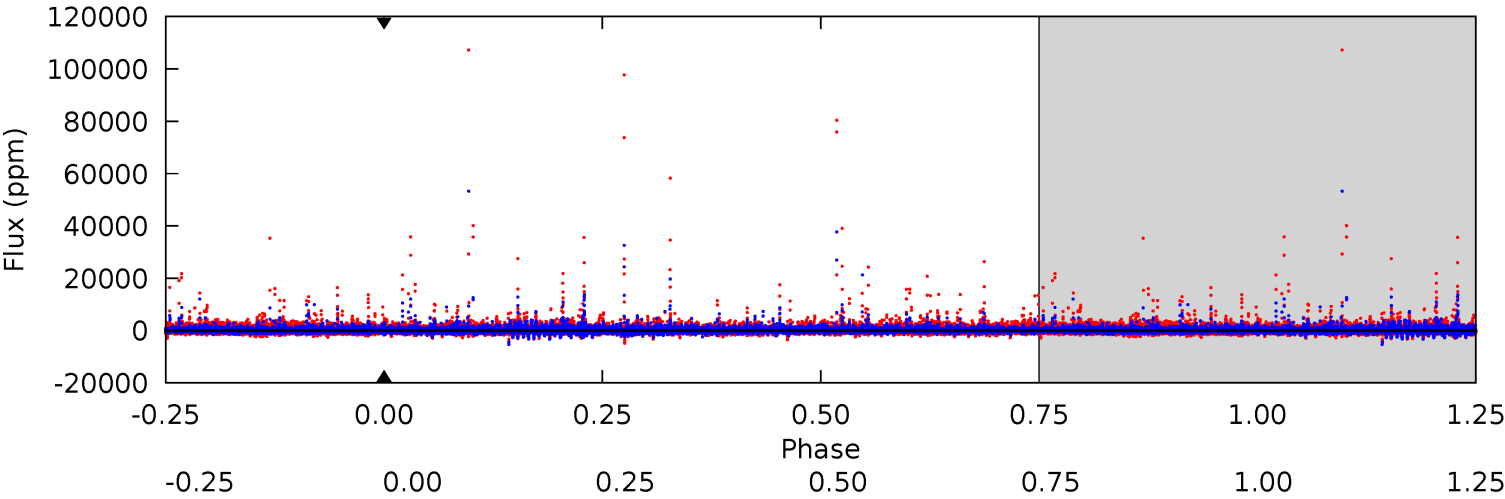
TCE 006762923-04 P=362.532221 Days $T_0=234.197495$ (BKJD)



DV Model-Shift Uniqueness Test

006762923-04, P = 362.532221 Days, E = 234.172605 Days

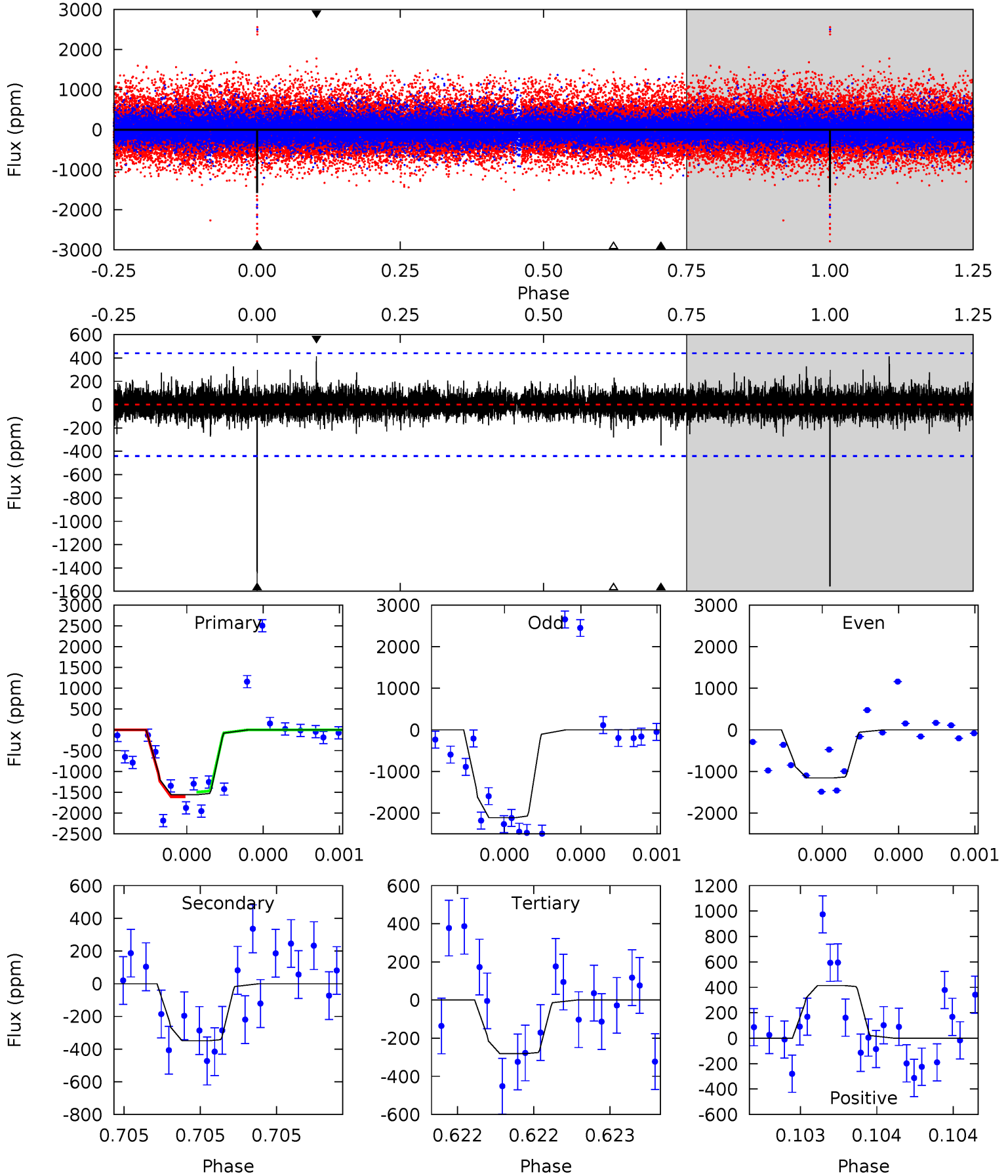
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006762923-04, P = 362.532221 Days, E = 234.197495 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.9	4.46	3.58	5.29	5.64	3.59	0.78	16.3	14.6	0.88	-0.83	5.91	1.19	0.21	0.72



Stellar Parameters For KIC 006762923

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4261^{+129}_{-142}	$4.602^{+0.052}_{-0.016}$	$0.220^{+0.200}_{-0.300}$	$0.681^{+0.028}_{-0.057}$	$0.677^{+0.044}_{-0.053}$	$3.016^{+0.695}_{-0.201}$
	+3%/-3%	+1%/-0%	+91%/-136%	+4%/-8%	+6%/-8%	+23%/-7%
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 006762923-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$5.92^{+6.05}_{-4.06}$	230^{+8}_{-8}	3380^{+7265}_{-13246}	$22383^{+2660531}_{-2103439}$
Alt.	-349 ± 78	$6.67^{+6.16}_{-4.38}$	231^{+7}_{-8}	2619^{+979}_{-385}	3318^{+24243}_{-2457}

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

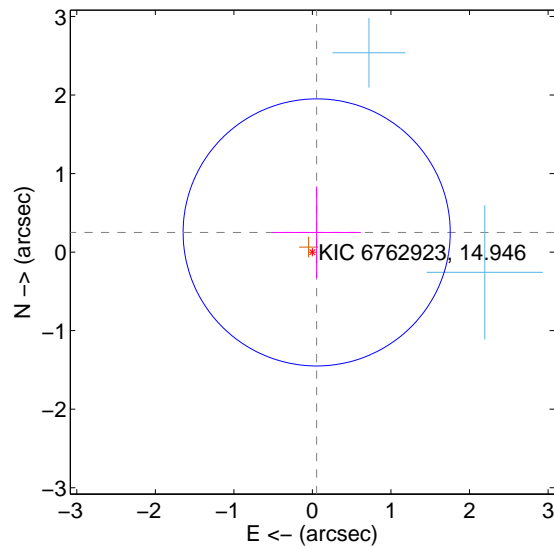
Supplemental centroid analysis for 006762923-04. Kepler magnitude: 14.95. Transit SNR -1.00

There are 2 quarters with good PRF difference image offsets

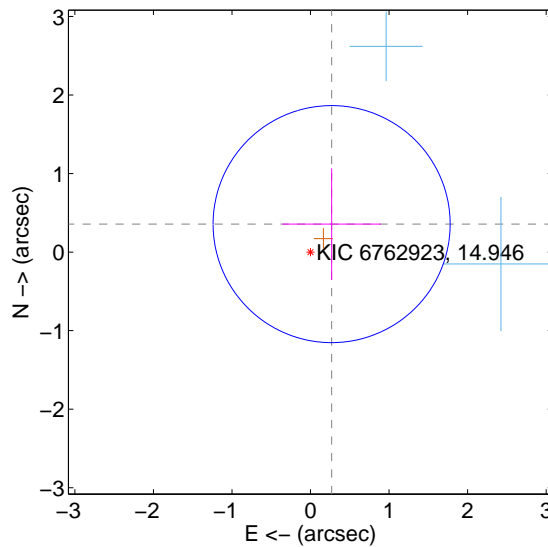
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.256 ± 0.567	0.45	-0.054 ± 0.562	0.250 ± 0.584
PRF-fit source offset from KIC position	0.446 ± 0.503	0.89	-0.269 ± 0.628	0.356 ± 0.711
photometric centroid source offset	0.92 ± 0.55	1.68	-0.32 ± 0.49	-0.86 ± 0.56

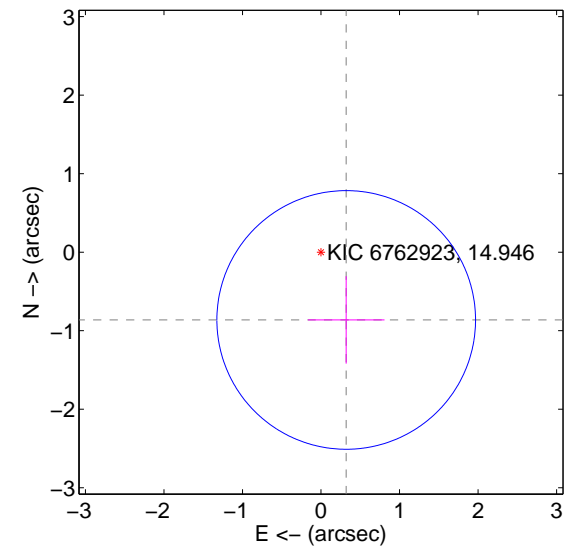
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

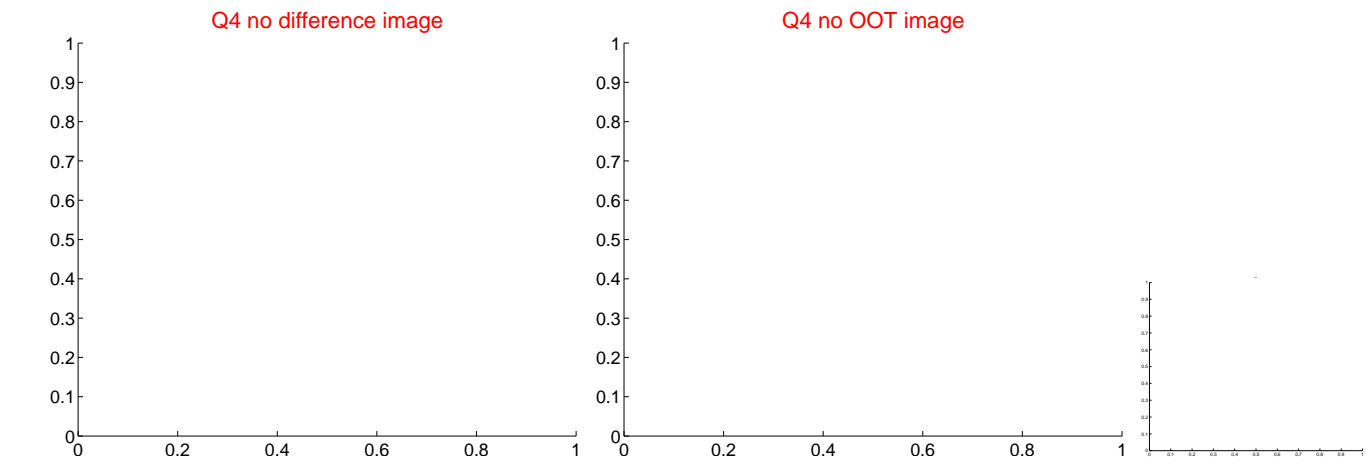
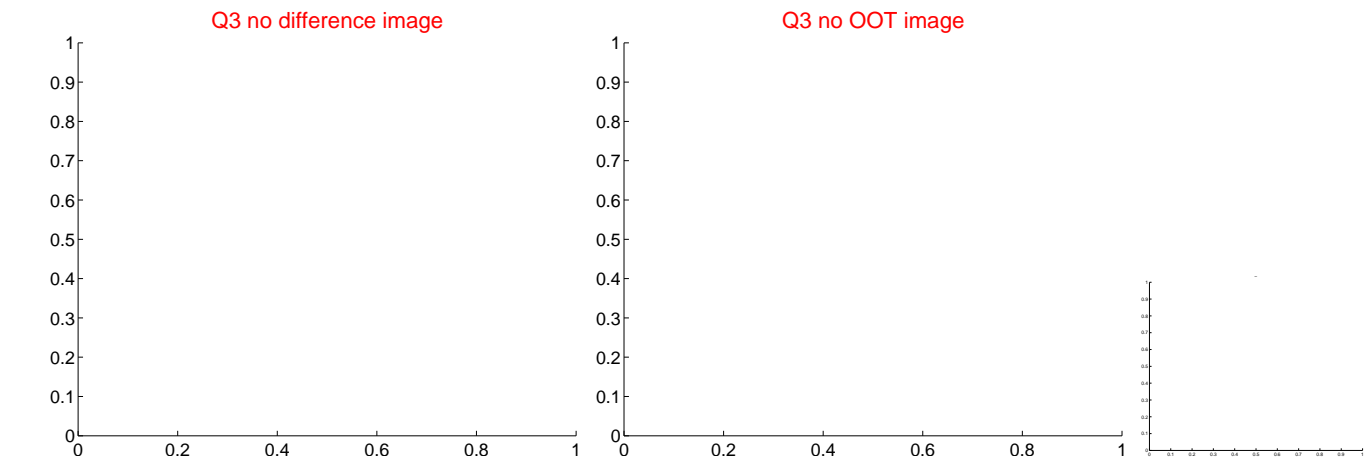
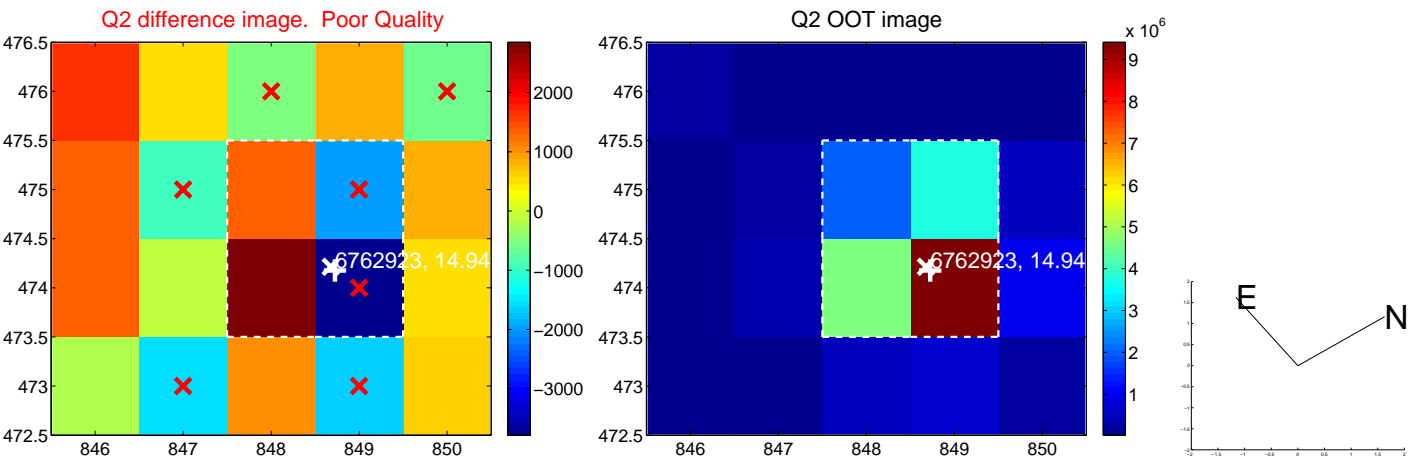
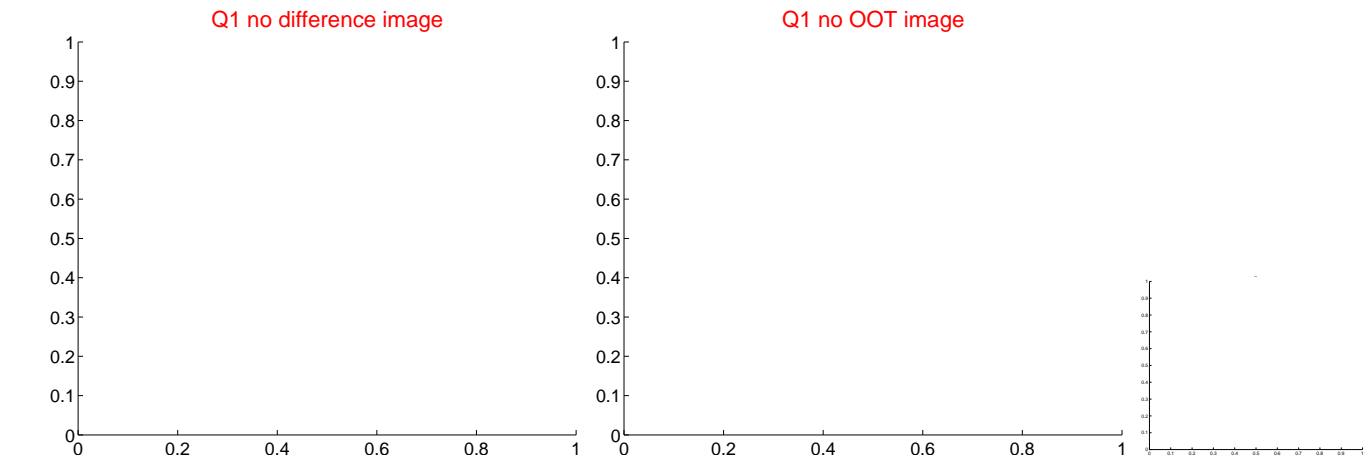


offset from photometric centroids

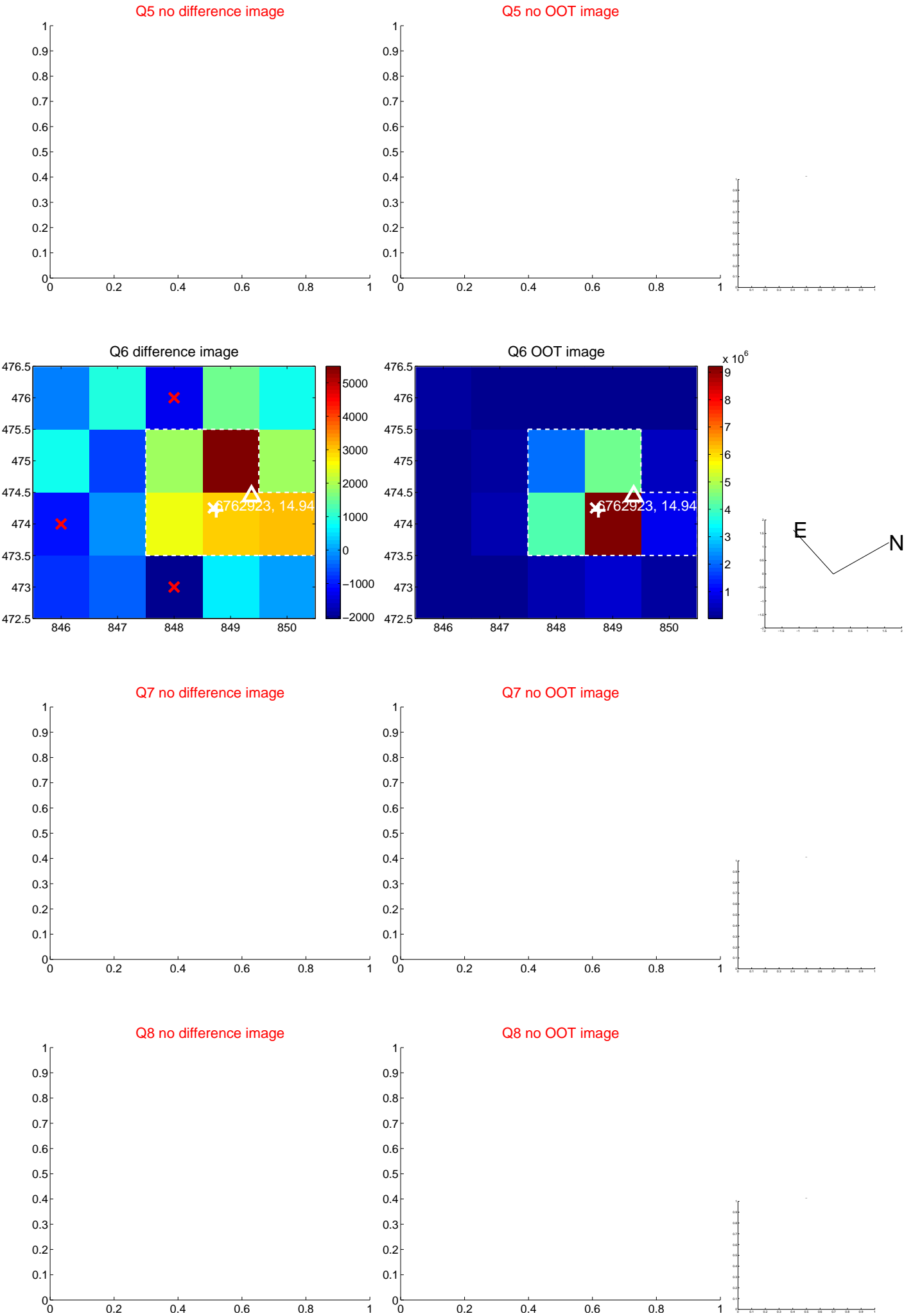


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

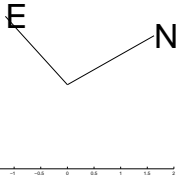
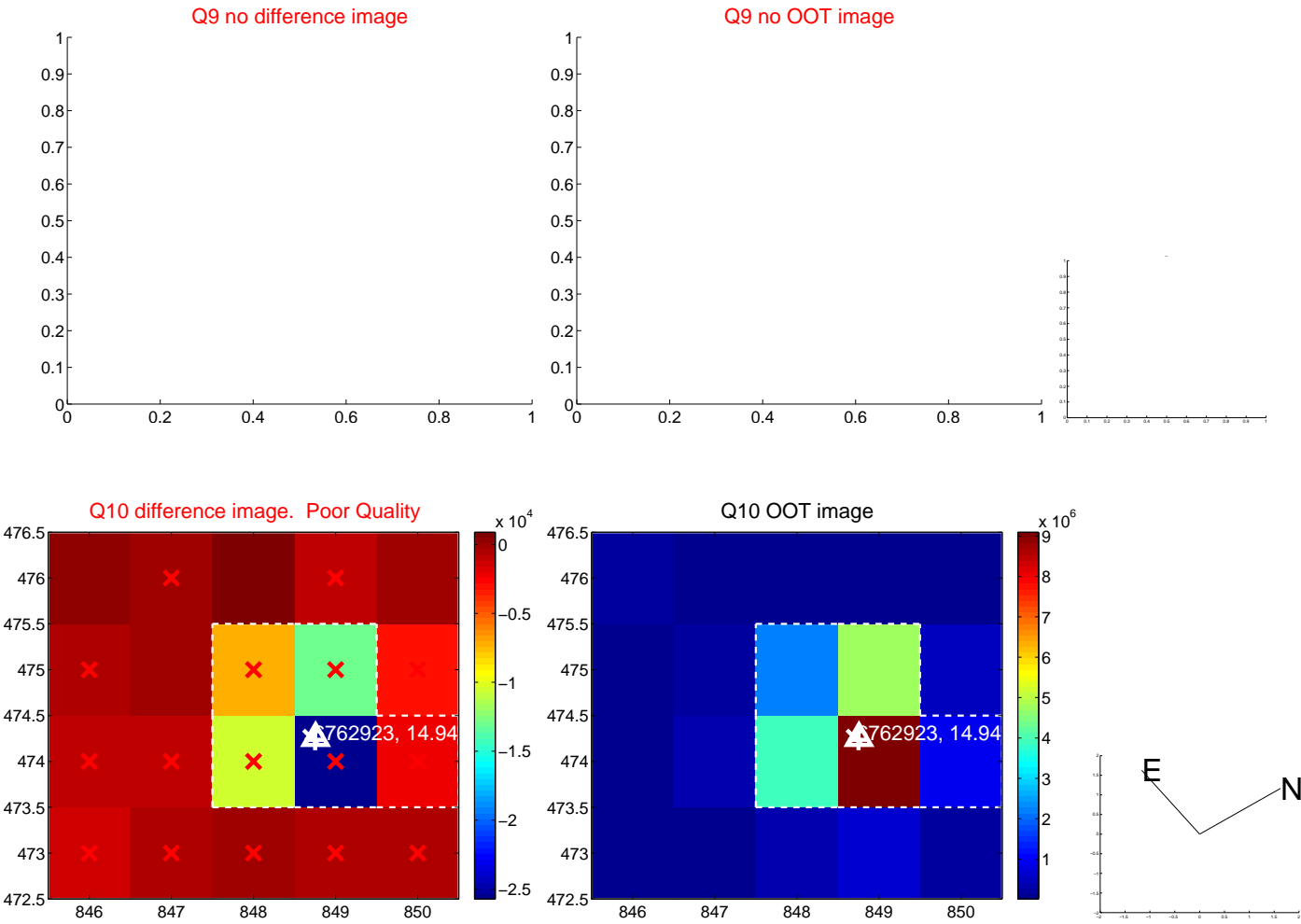
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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

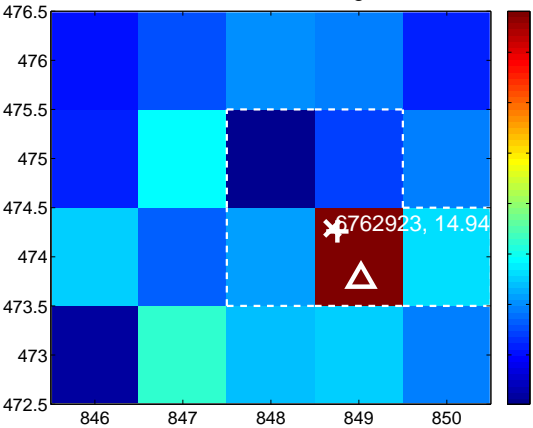
Q13 no difference image



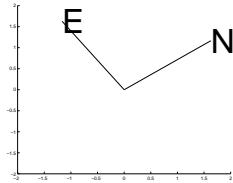
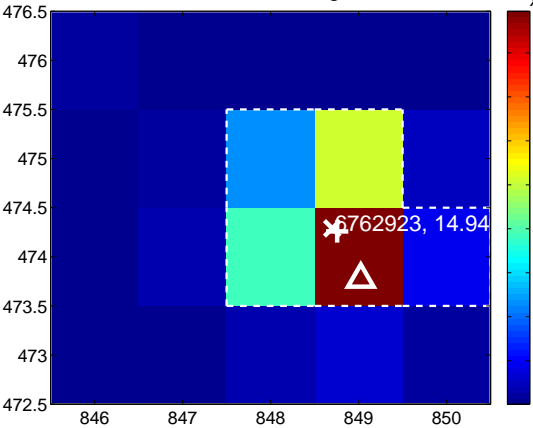
Q13 no OOT image



Q14 difference image



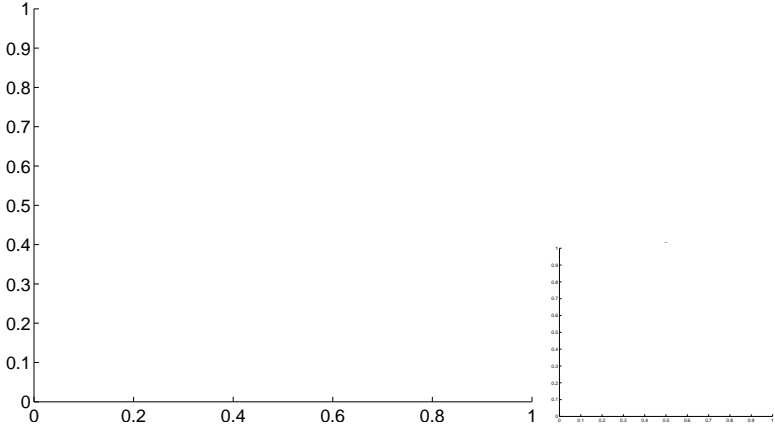
Q14 OOT image



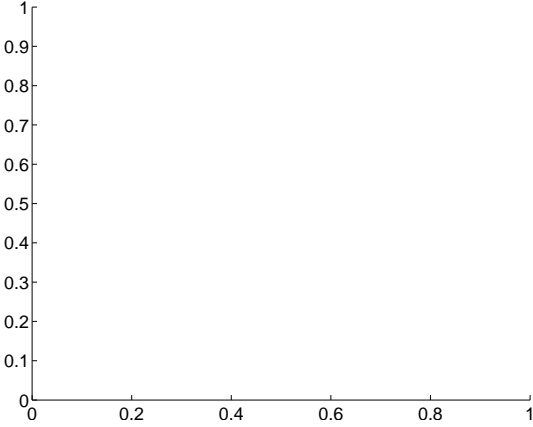
Q15 no difference image



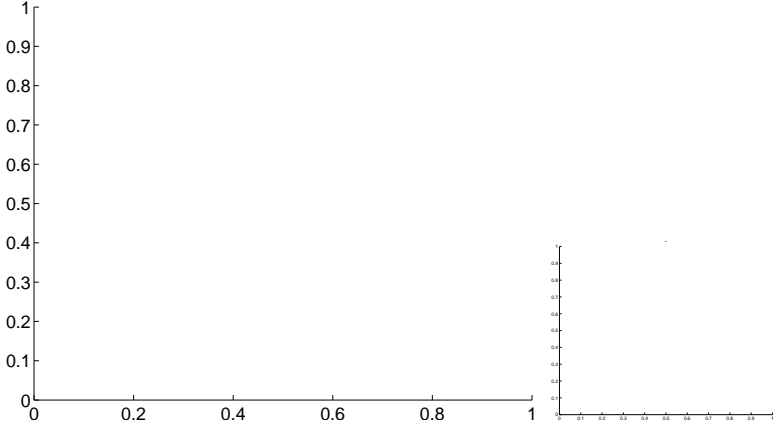
Q15 no OOT image



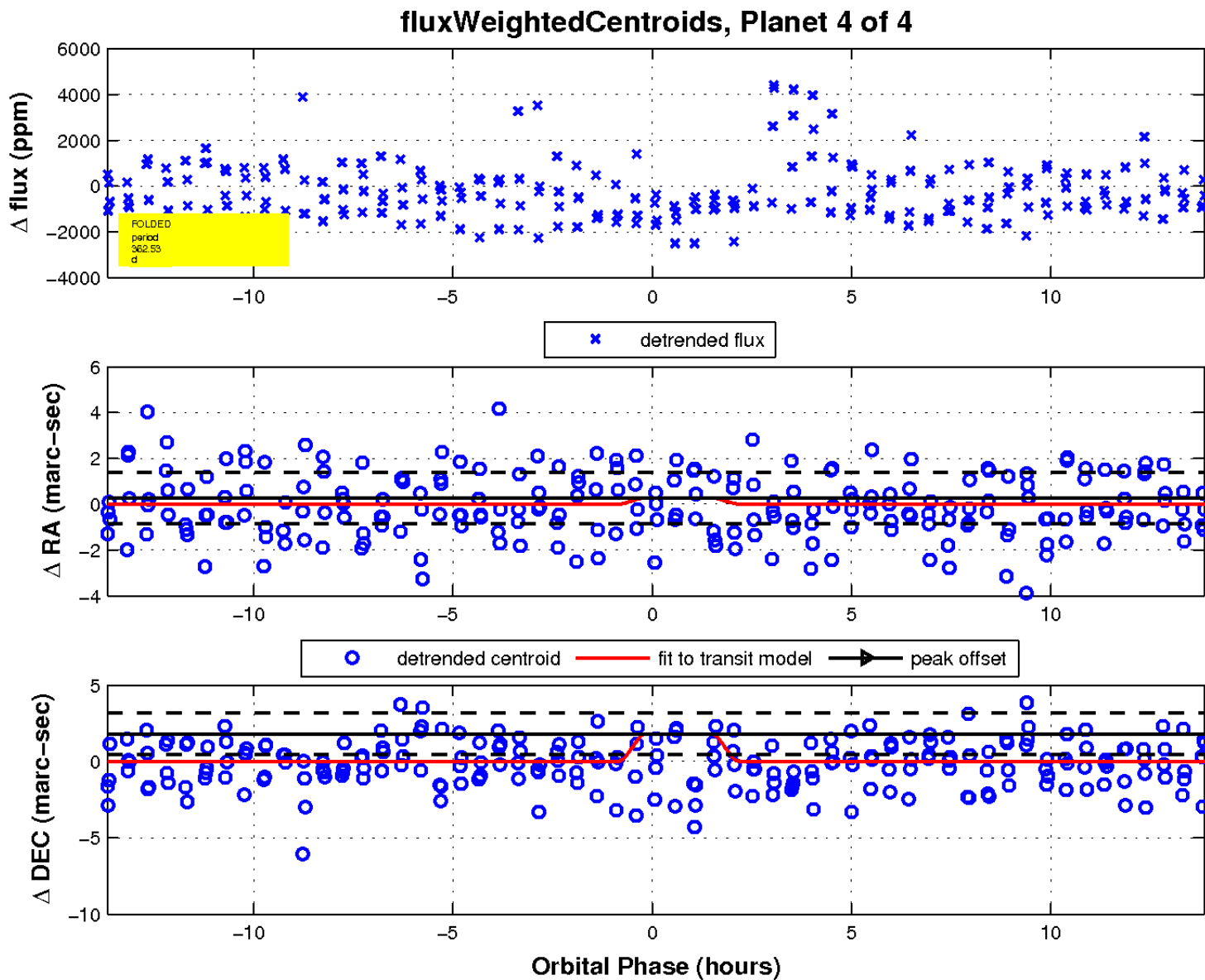
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

