

KIC 008482263

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})
008482263-01	OBS	No	368.404286	235.636969	1382.3	13.898	8.2	9.0	0.97	6018	3.65	1.06
008482263-02	OBS	No	314.809144	288.047213	573.9	21.963	12.6	8.1	0.97	6018	2.86	1.31
008482263-03	OBS	No	369.922562	199.822448	1186.6	18.741	7.7	7.2	0.97	6018	3.43	1.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008482263-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008482263-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008482263-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

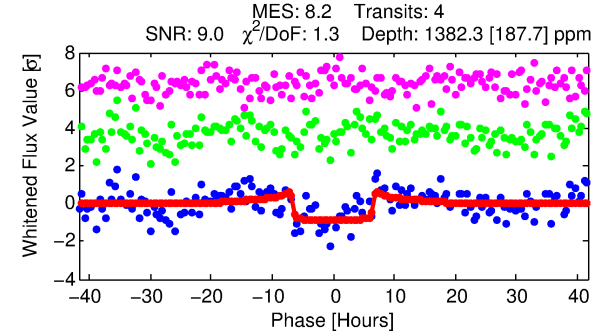
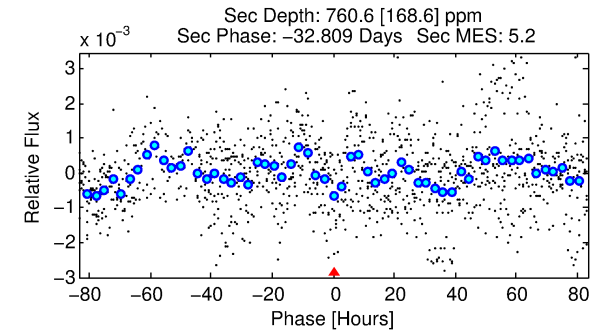
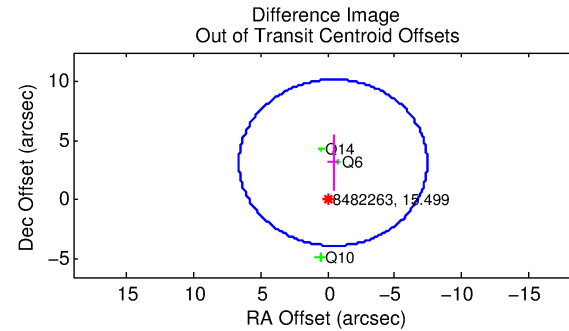
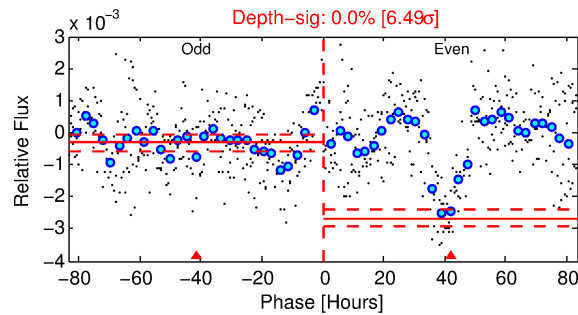
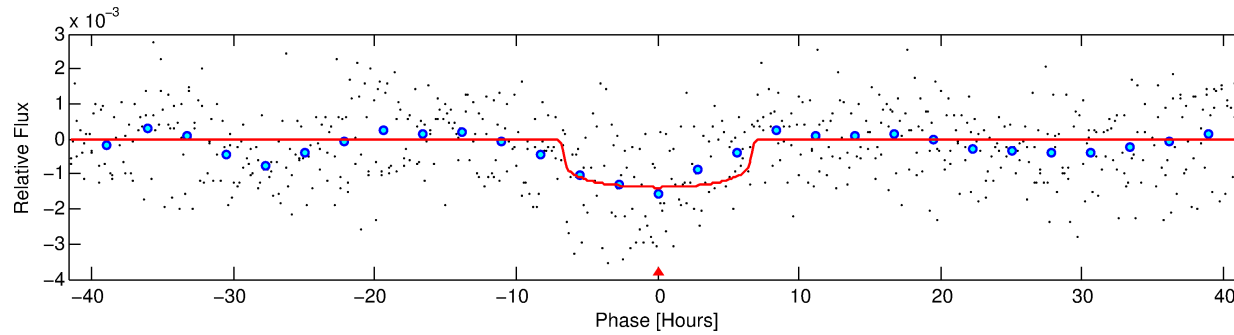
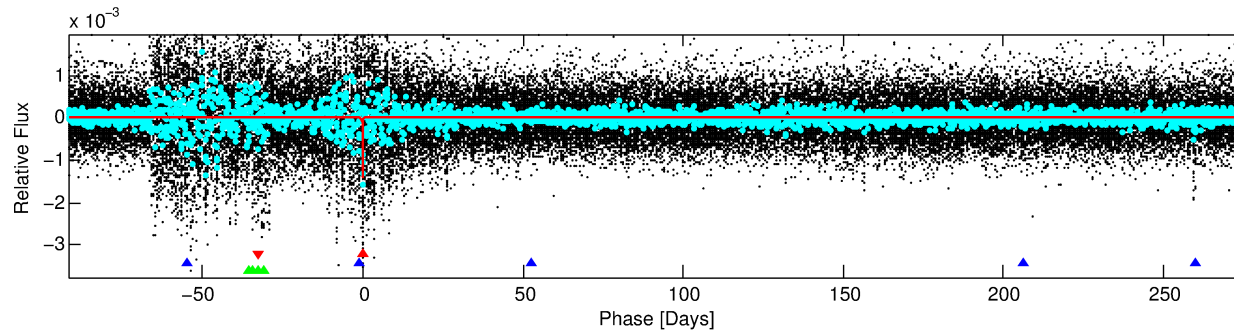
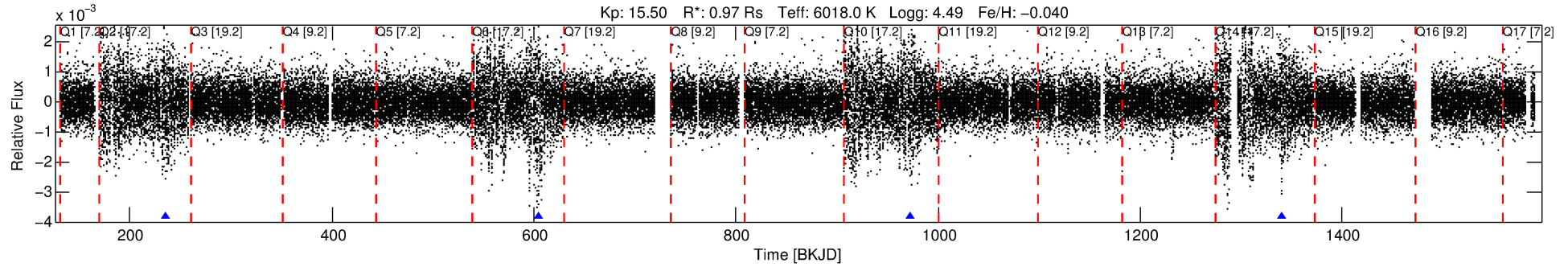
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008482263-01

No Significant Match Found

DV One-Page Summary

KIC: 8482263 Candidate: 1 of 3 Period: 368.404 d



DV Fit Results:

Period = 368.40429 [0.00688] d
Epoch = 235.6370 [0.0140] BKJD
Rp/R* = 0.0343 [0.0120]
a/R* = 199.14 [315.72]
b = 0.32 [4.46]
Seff = 1.06 [0.43]
Teq = 259 [26] K
Rp = 3.65 [1.71] Re
a = 1.0255 [0.2677] AU
Ag = 33046.93 [27322.29] [1.21 σ]
Teffp = 5397 [1008] K [5.09 σ]

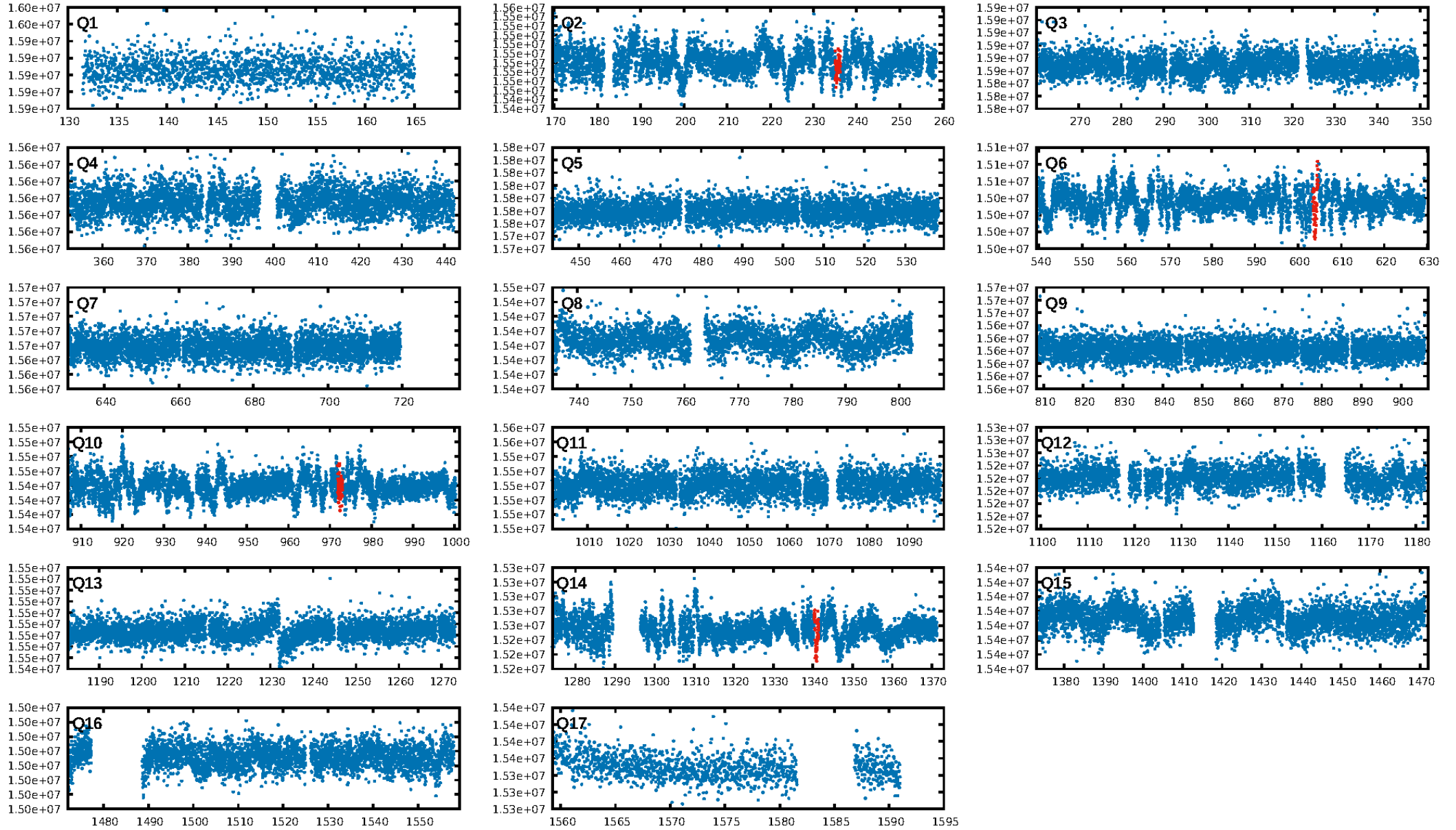
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [49.49 σ]
LongPeriod-sig: 88.2% [1.56 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 78.4%
Bootstrap-pfa: 3.66e-10
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 4.504
Centroid-sig: 1.7%
Centroid-so: 3.557 arcsec [1.70 σ]
OotOffset-rm: 3.192 arcsec [1.36 σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-rm: 3.077 arcsec [1.27 σ]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.75 [3/4]

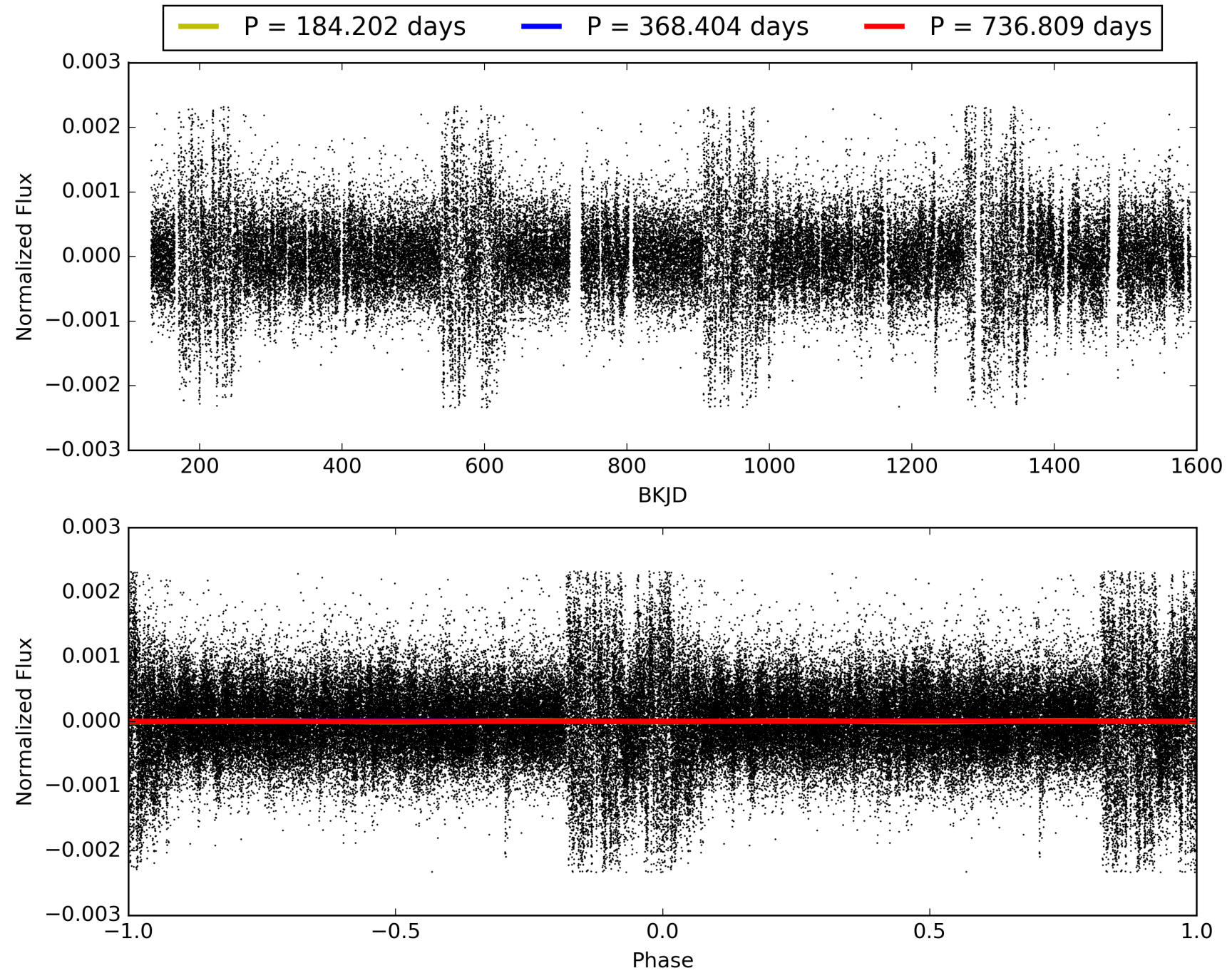
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:56:09 Z

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

TCE 008482263-01, PDC Light Curves

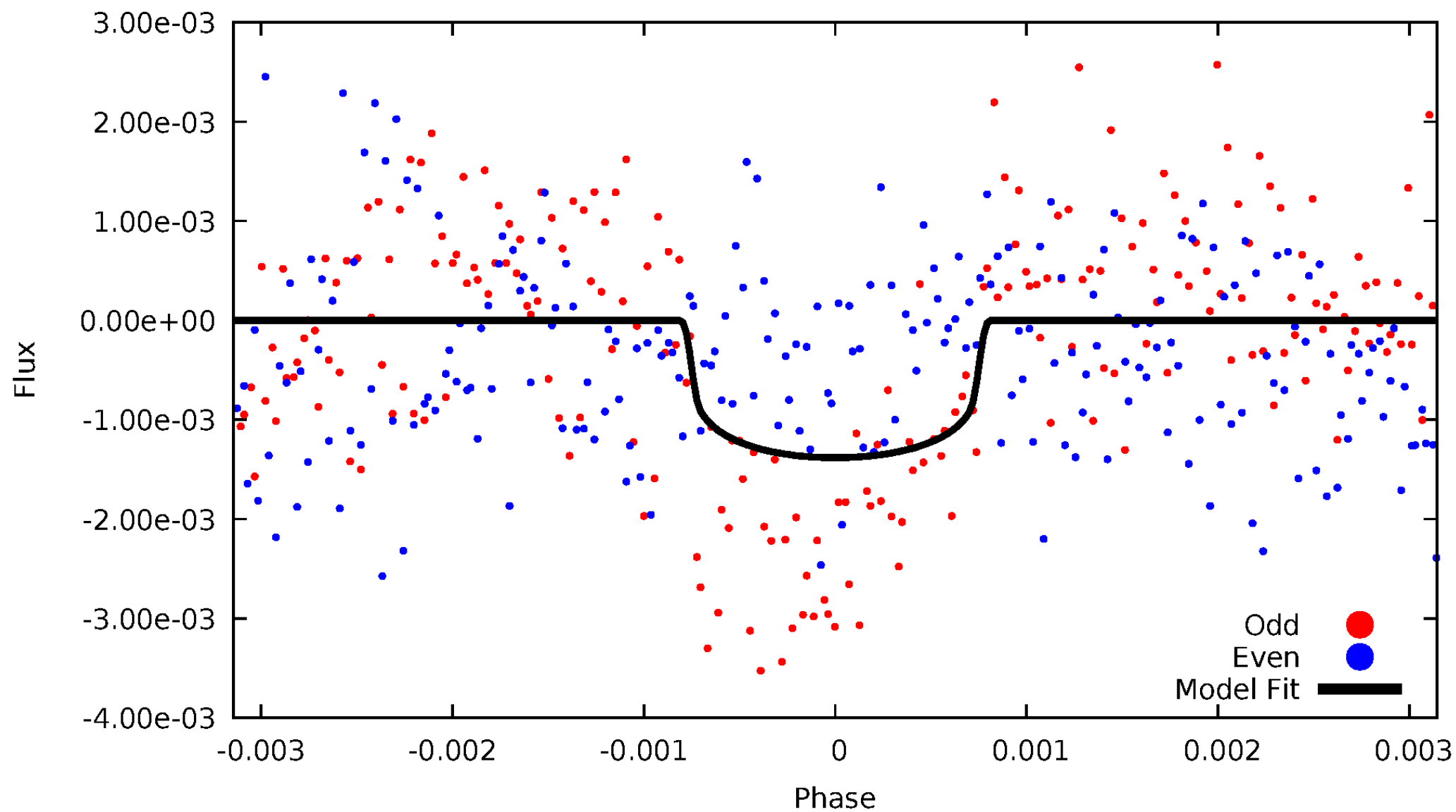


TCE 008482263-01



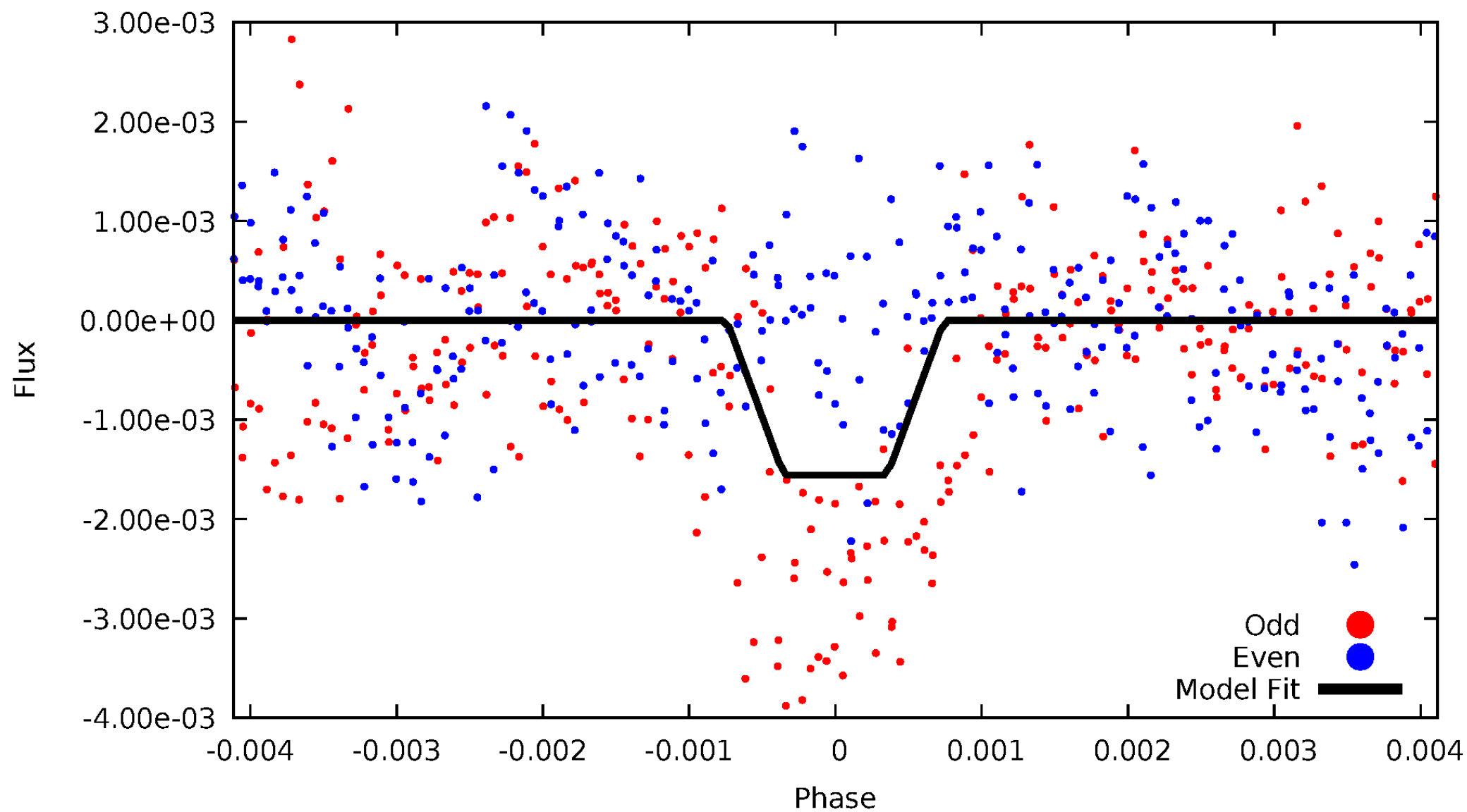
DV Odd/Even

TCE 008482263-01

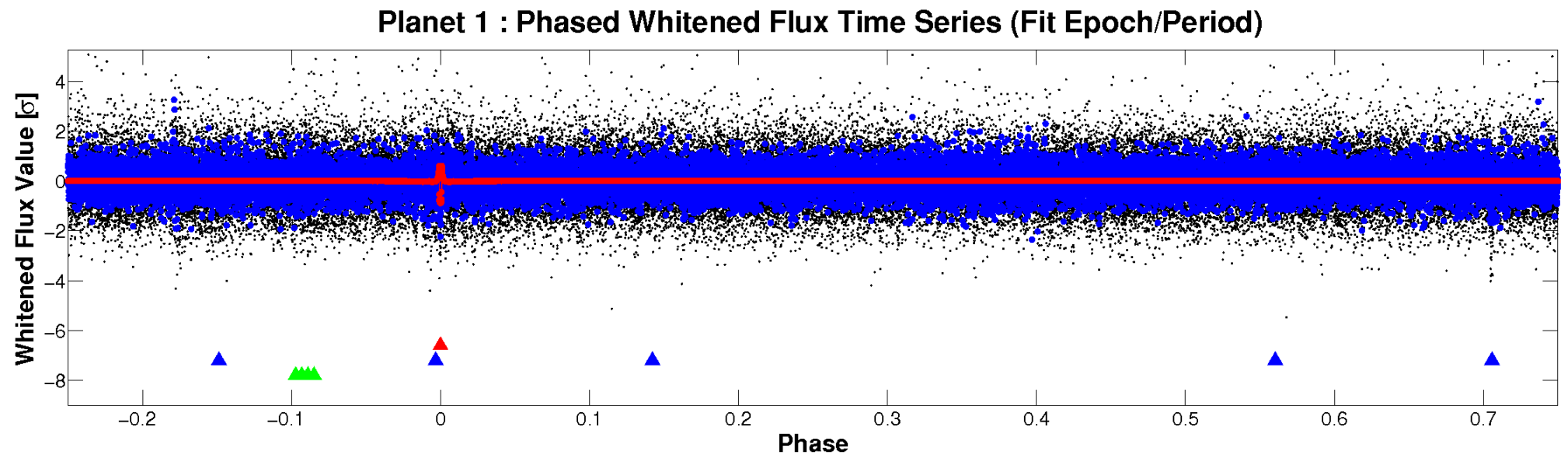
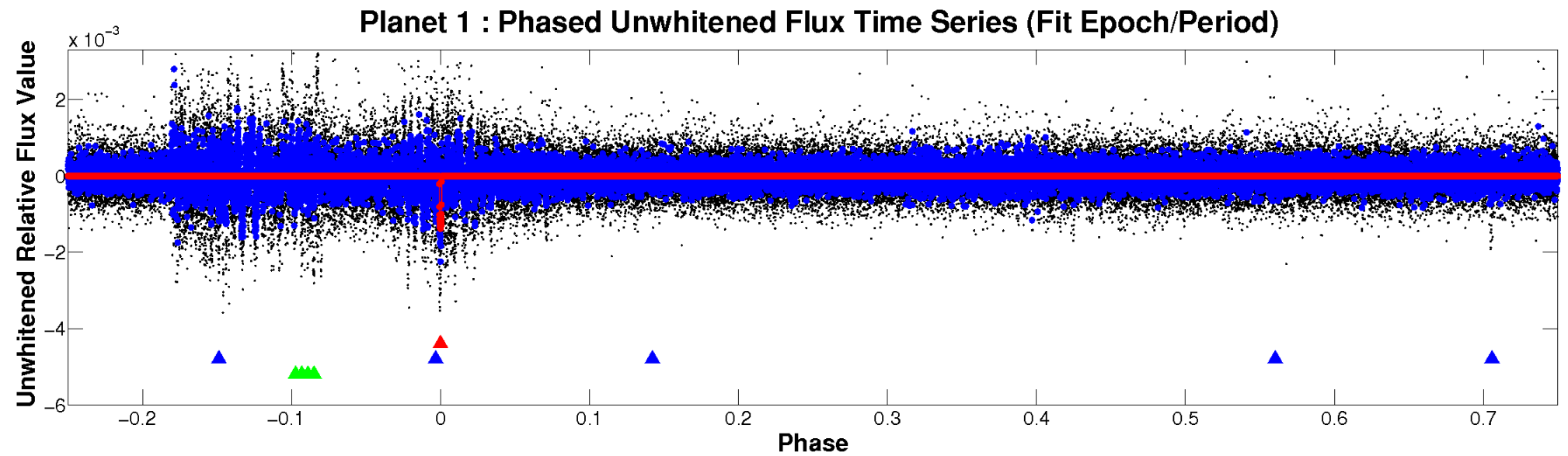


ALT Odd/Even

TCE 008482263-01

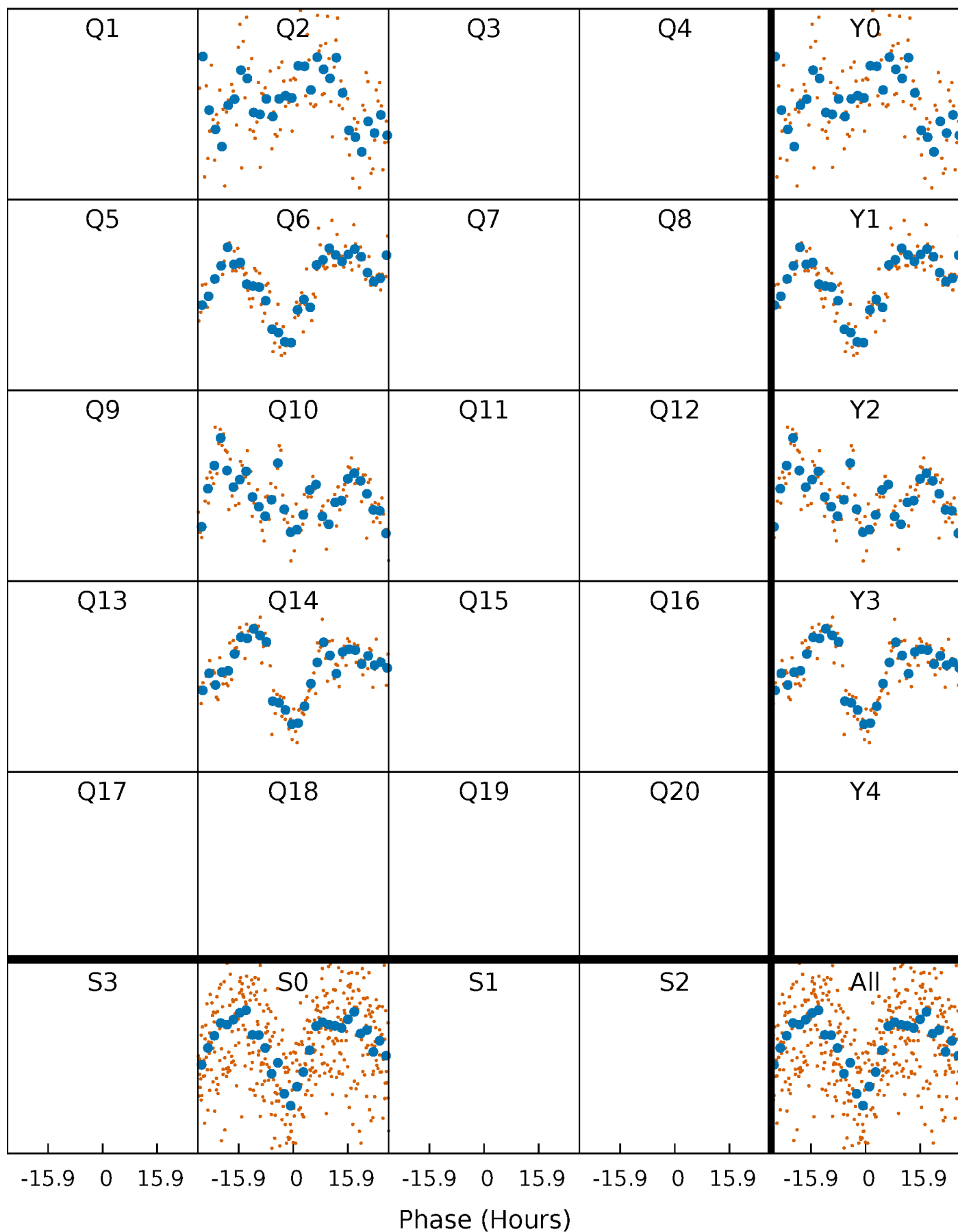


Non-Whitened Vs. Whitened Light Curve



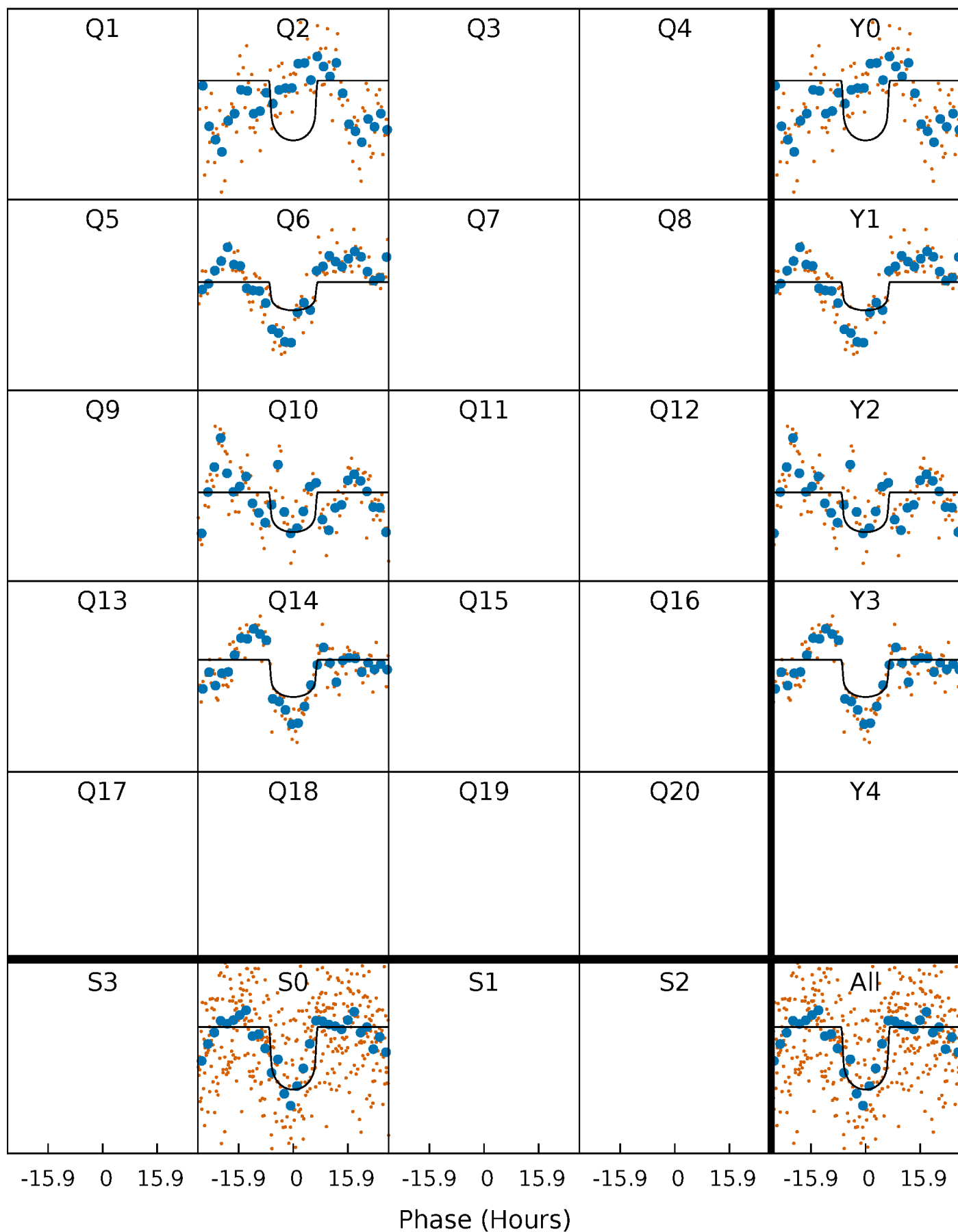
PDC Quarter-Phased Transit Curves

TCE 008482263-01 P=368.404286 Days $T_0=235.636969$ (BKJD)



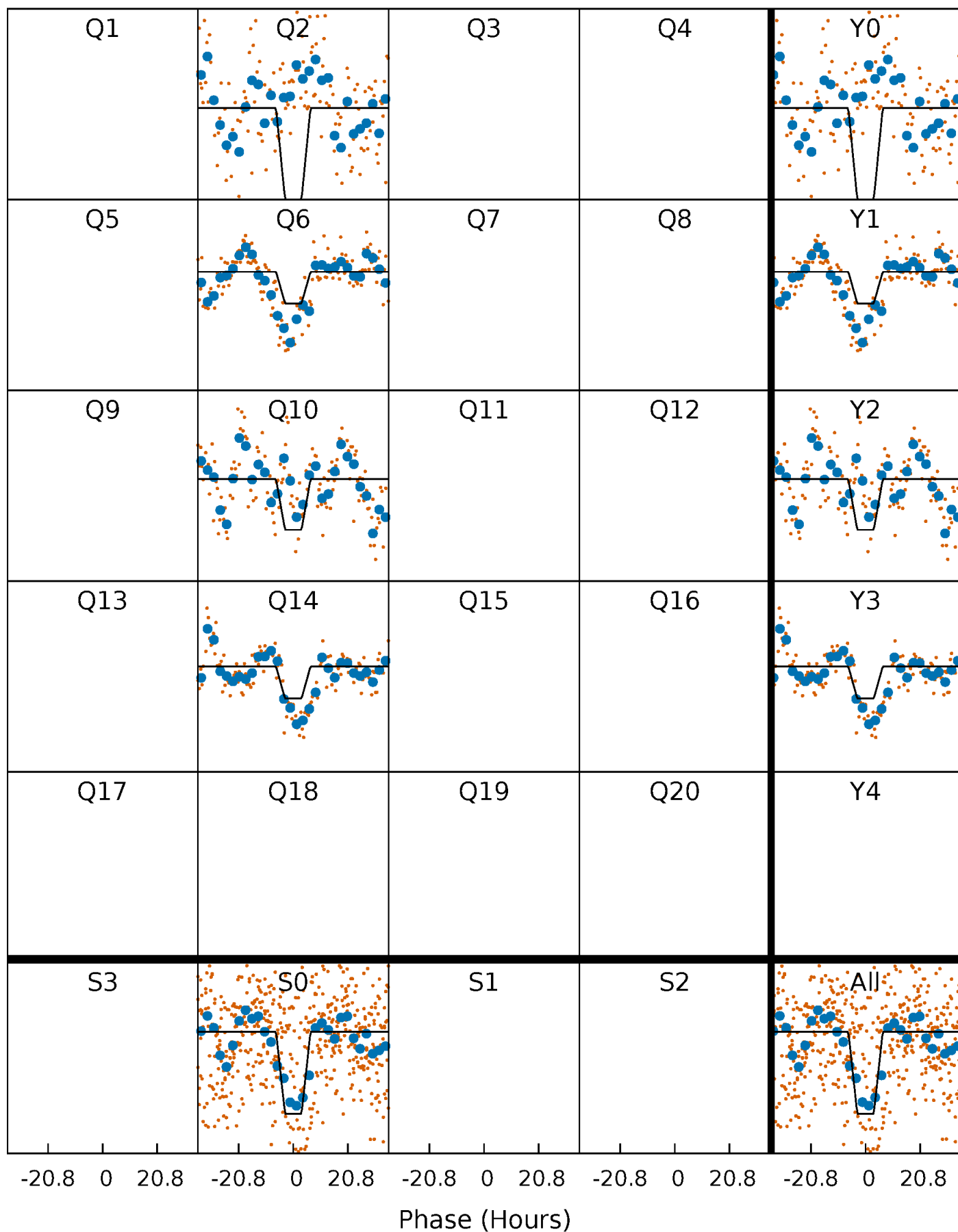
DV Quarter-Phased Transit Curves

TCE 008482263-01 P=368.404286 Days $T_0=235.636969$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

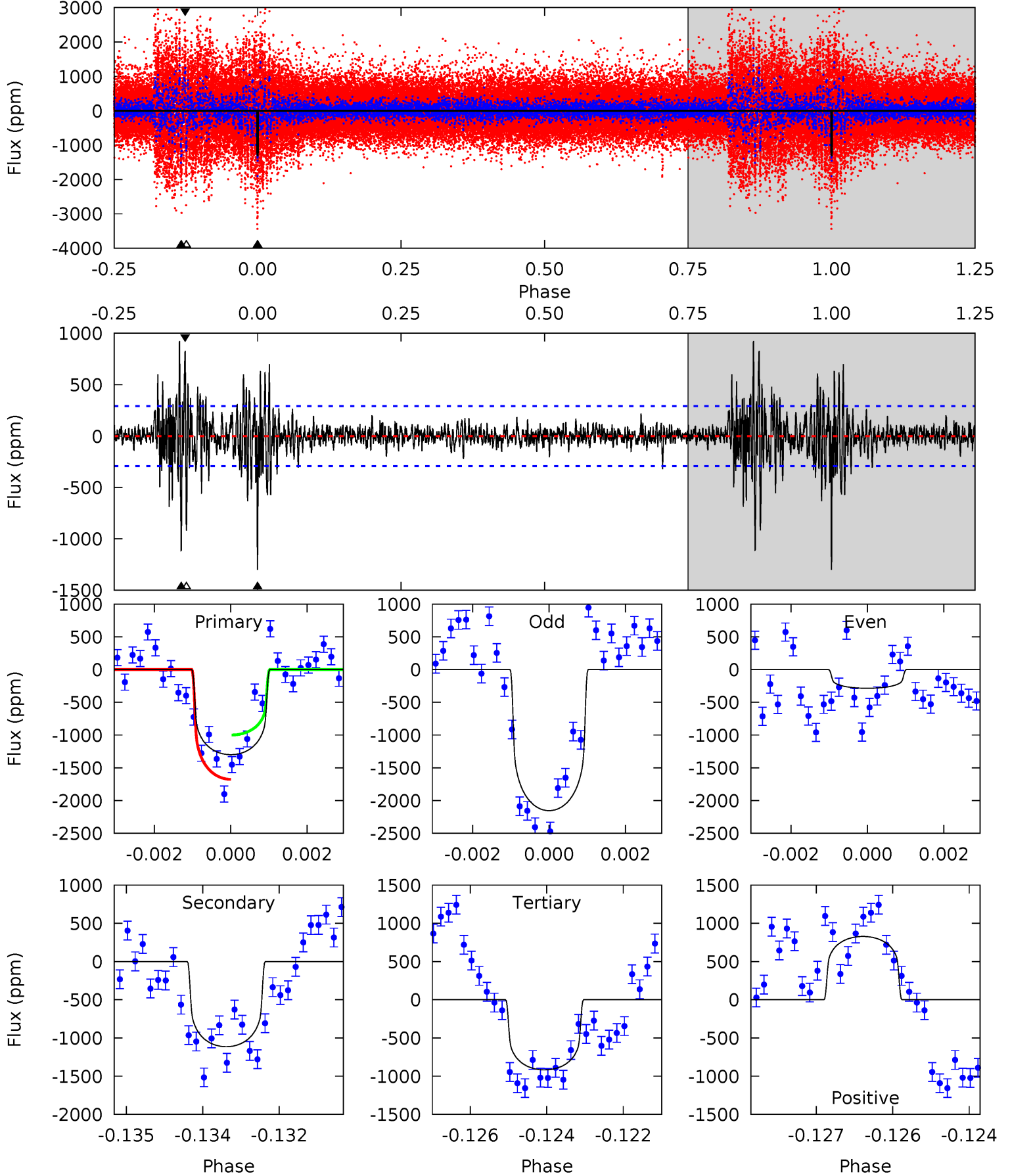
TCE 008482263-01 P=368.355786 Days $T_0=235.666465$ (BKJD)



DV Model-Shift Uniqueness Test

008482263-01, P = 368.404286 Days, E = 235.636969 Days

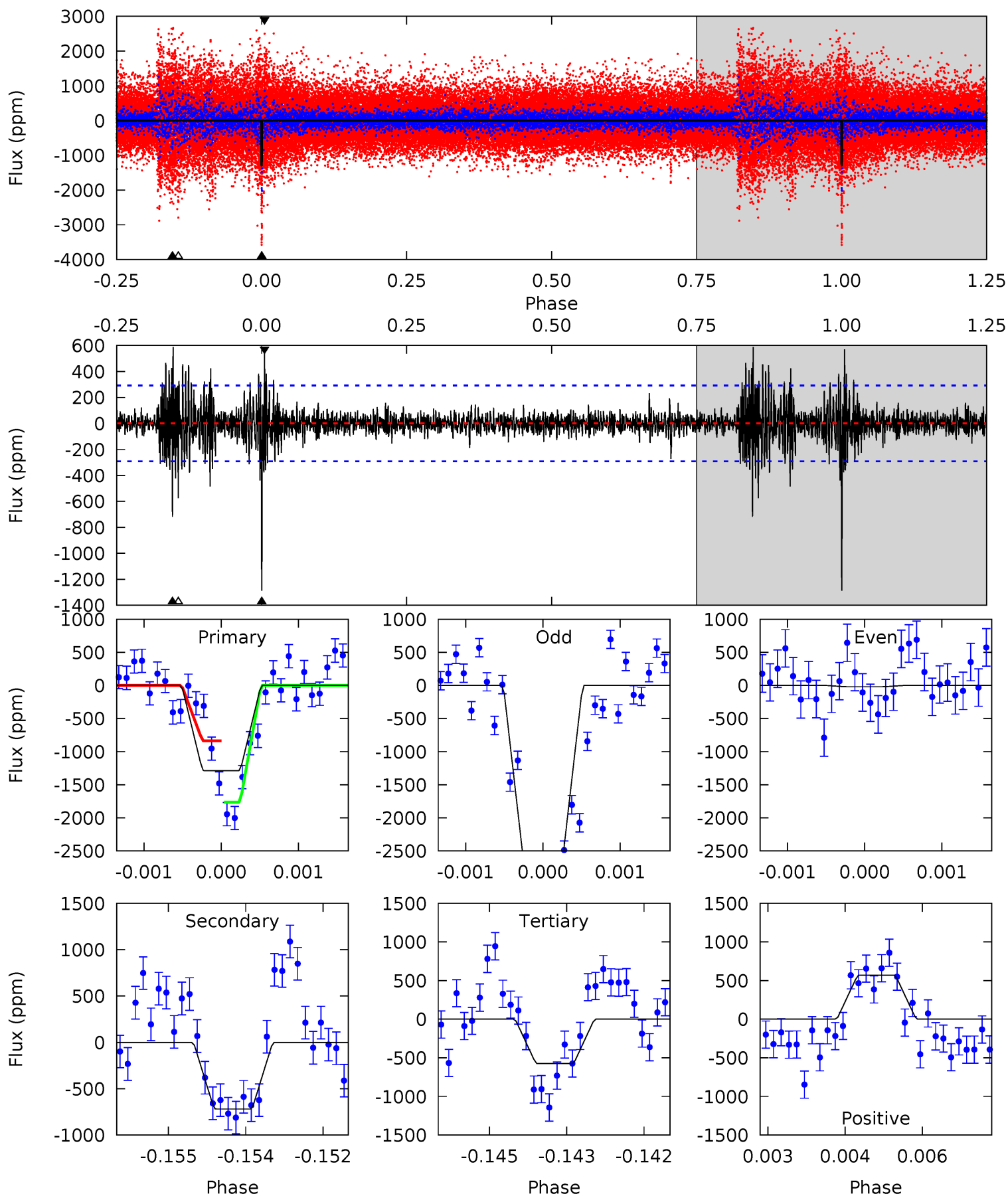
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.9	20.5	16.9	15.2	5.37	3.16	2.48	7.02	8.67	3.61	5.26	17.3	0.97	0.42	6.19



Alt Model-Shift Uniqueness Test

008482263-01, P = 368.355786 Days, E = 235.666465 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.8	13.3	10.6	10.5	5.39	3.18	1.59	13.2	13.2	2.67	2.77	26.6	0.96	0.31	8.45



Stellar Parameters For KIC 008482263

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6018^{+190}_{-211}	$4.485^{+0.052}_{-0.208}$	$-0.040^{+0.250}_{-0.300}$	$0.975^{+0.302}_{-0.101}$	$1.058^{+0.134}_{-0.147}$	$1.608^{+0.351}_{-0.886}$
	+3%/-4%	+1%/-5%	+625%/-750%	+31%/-10%	+13%/-14%	+22%/-55%
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 008482263-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1114 ± 54	$3.82^{+1.39}_{-1.40}$	371^{+27}_{-20}	5931^{+1624}_{-733}	42576^{+67528}_{-19139}
Alt.	-719 ± 54	$4.30^{+1.48}_{-1.27}$	370^{+26}_{-19}	5079^{+836}_{-532}	21941^{+21873}_{-9619}

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

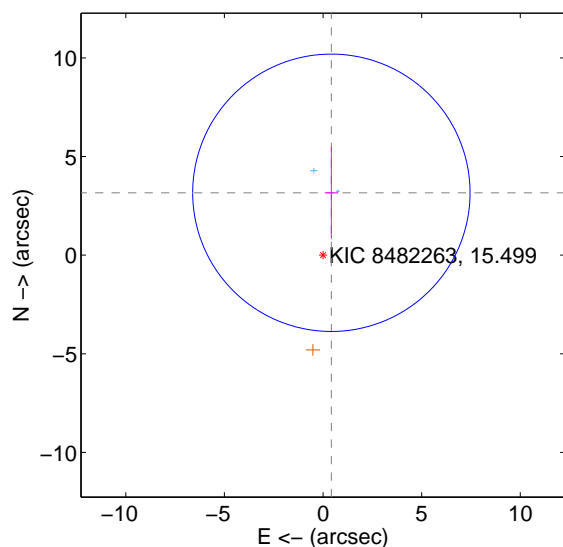
Supplemental centroid analysis for 008482263-01. Kepler magnitude: 15.50. Transit SNR 9.01

There are 2 quarters with good PRF difference image offsets

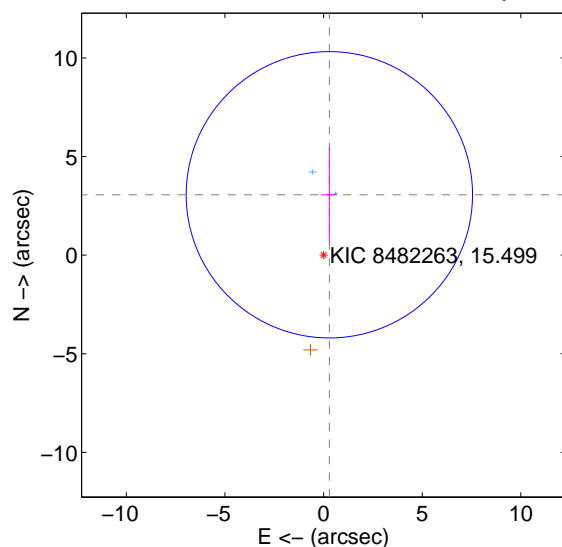
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.192 ± 2.344	1.36	-0.423 ± 0.334	3.164 ± 2.335
PRF-fit source offset from KIC position	3.077 ± 2.420	1.27	-0.293 ± 0.388	3.063 ± 2.409
photometric centroid source offset	3.56 ± 2.09	1.70	-1.40 ± 2.13	-3.27 ± 2.08

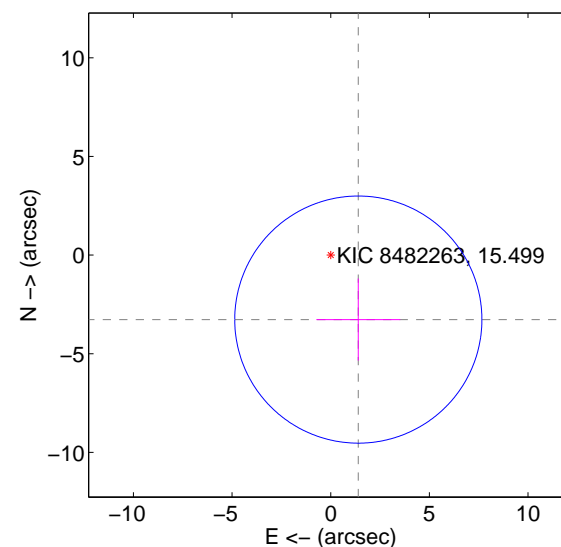
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

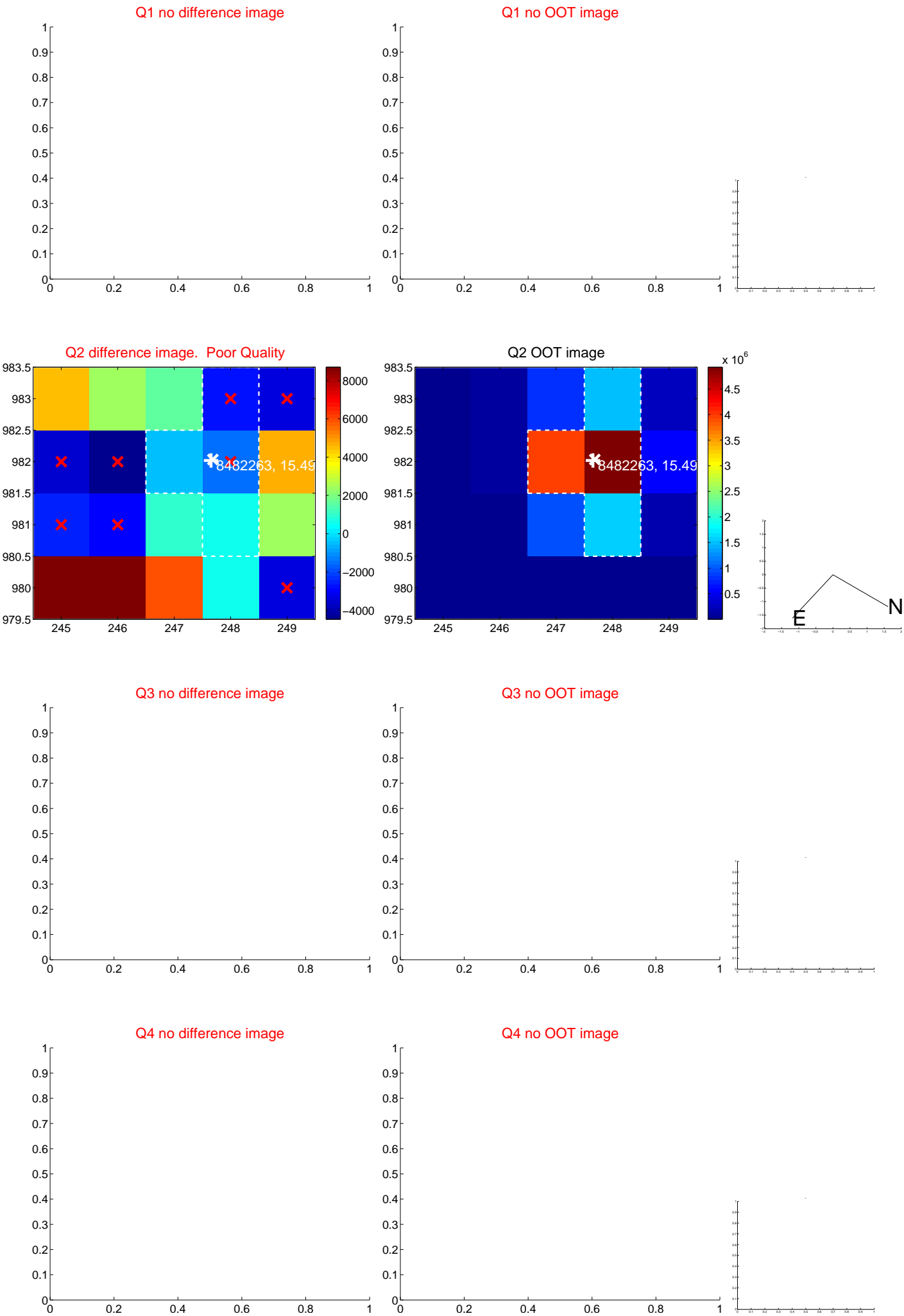


offset from photometric centroids

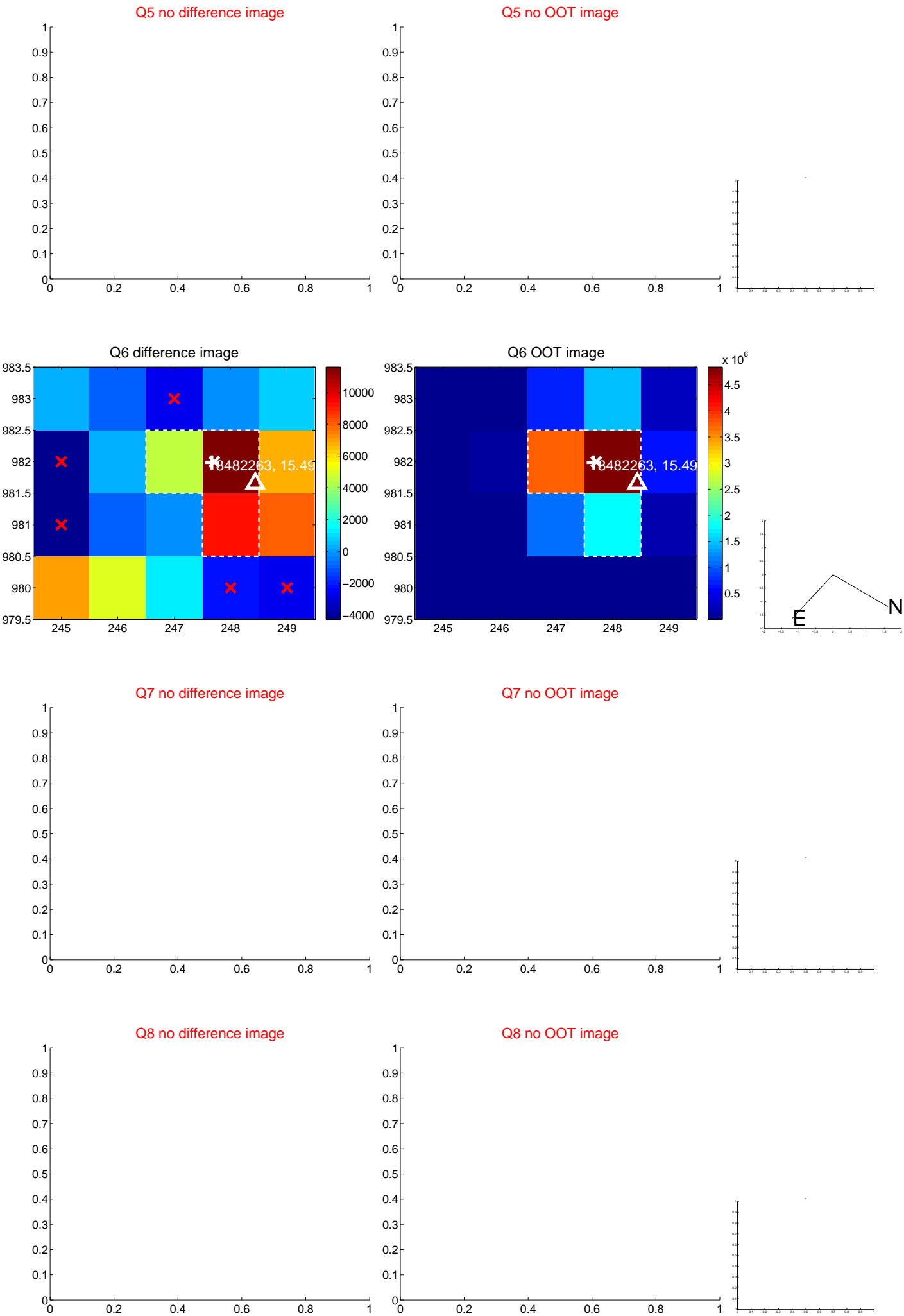


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

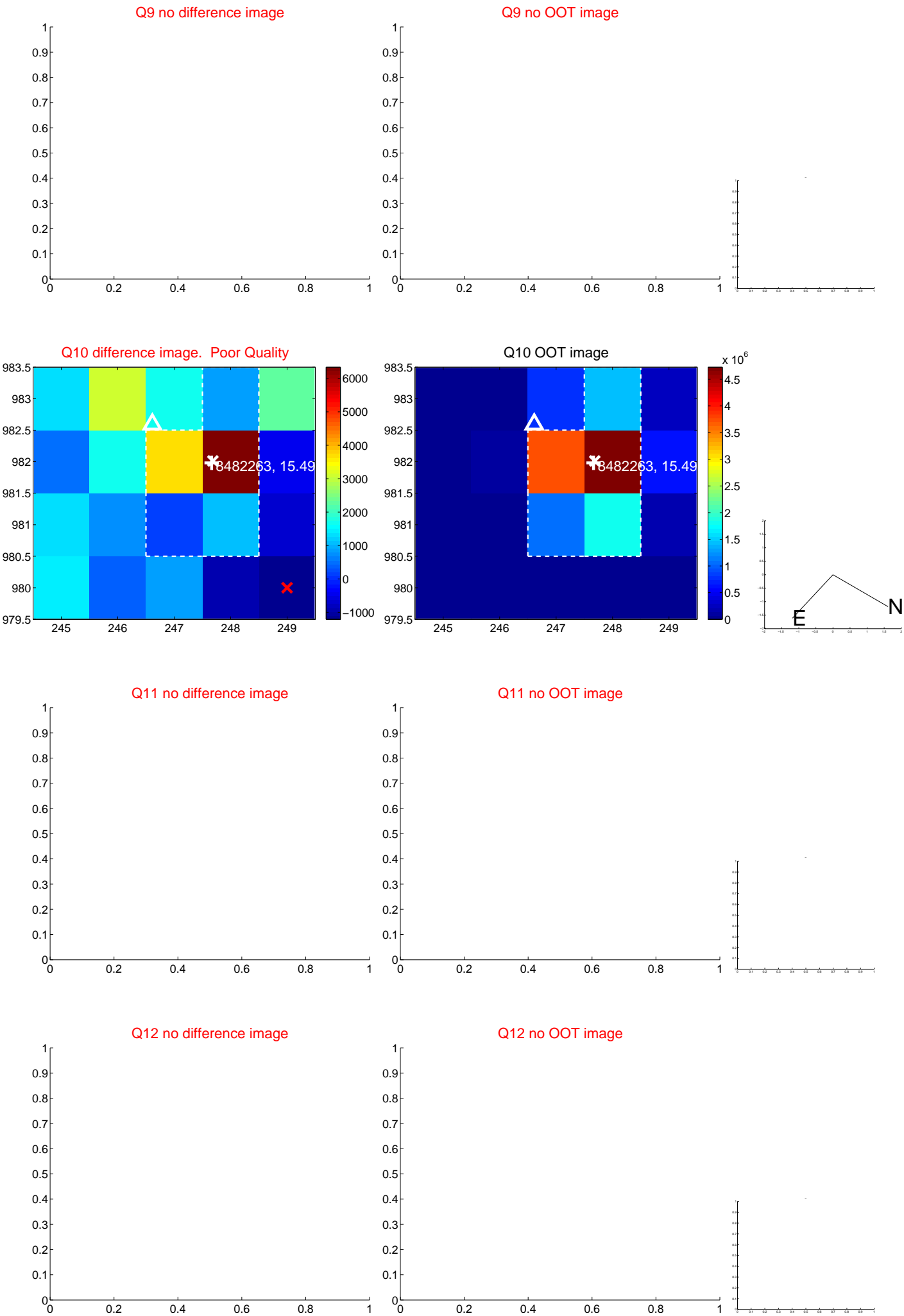
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



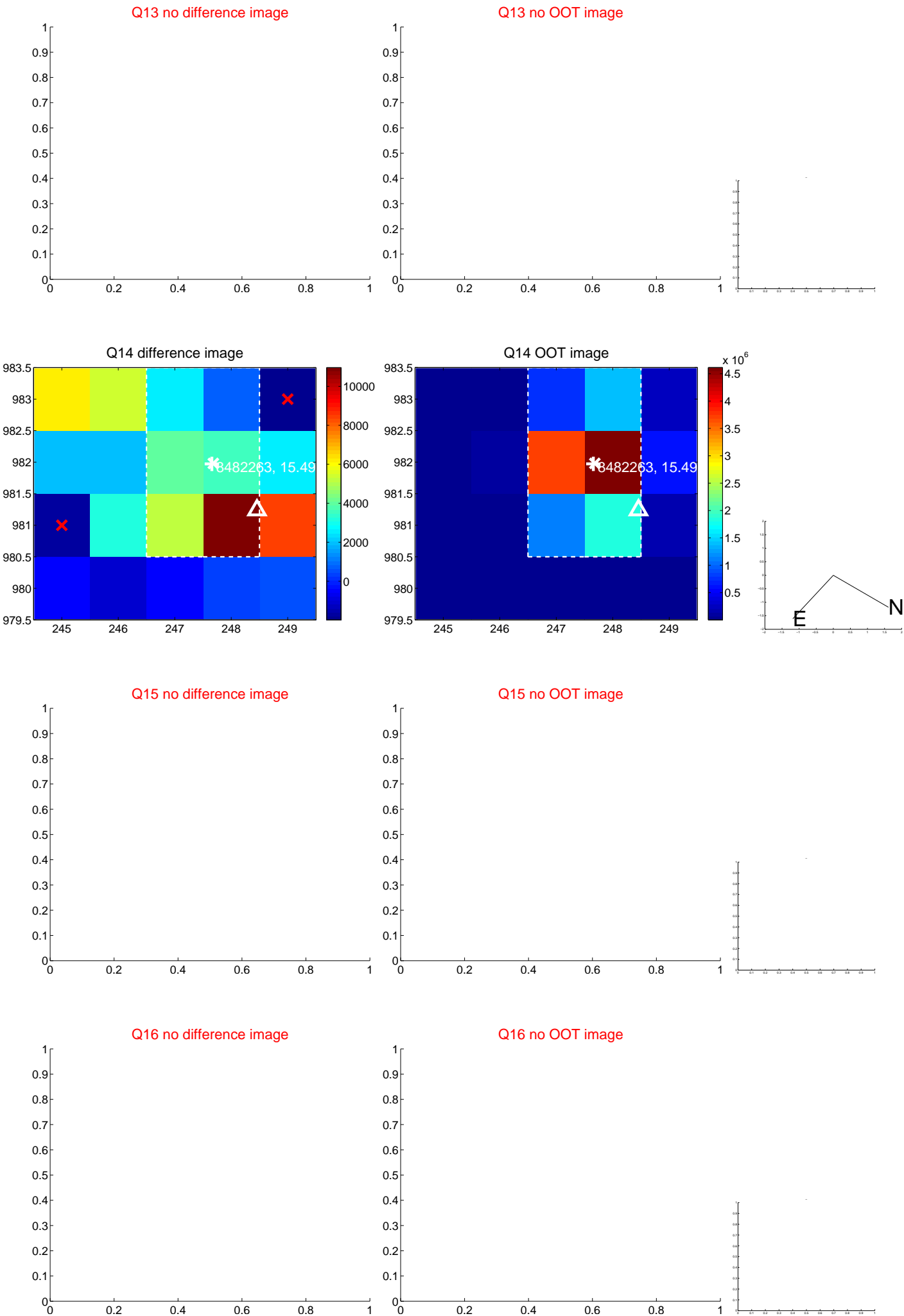
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



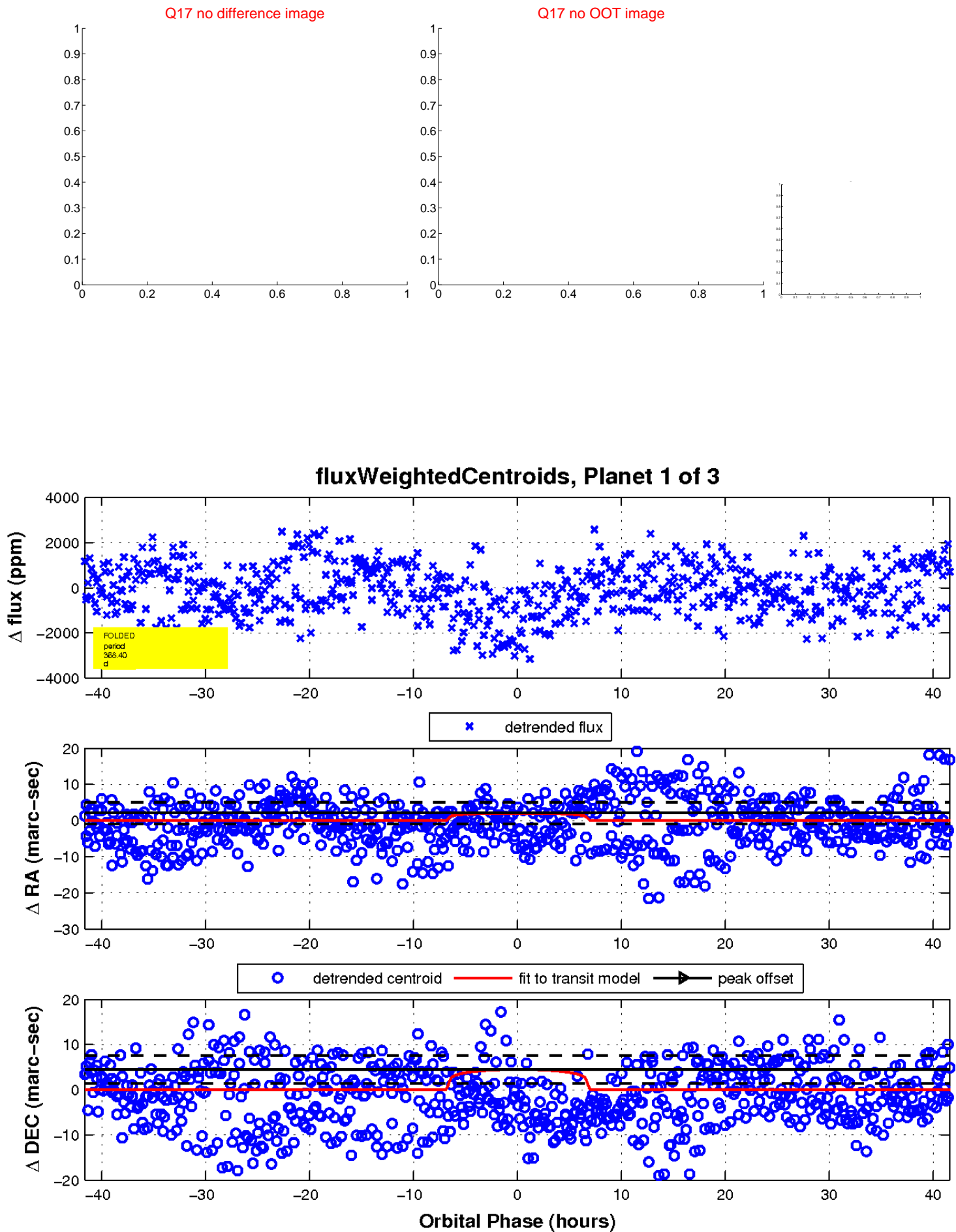
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

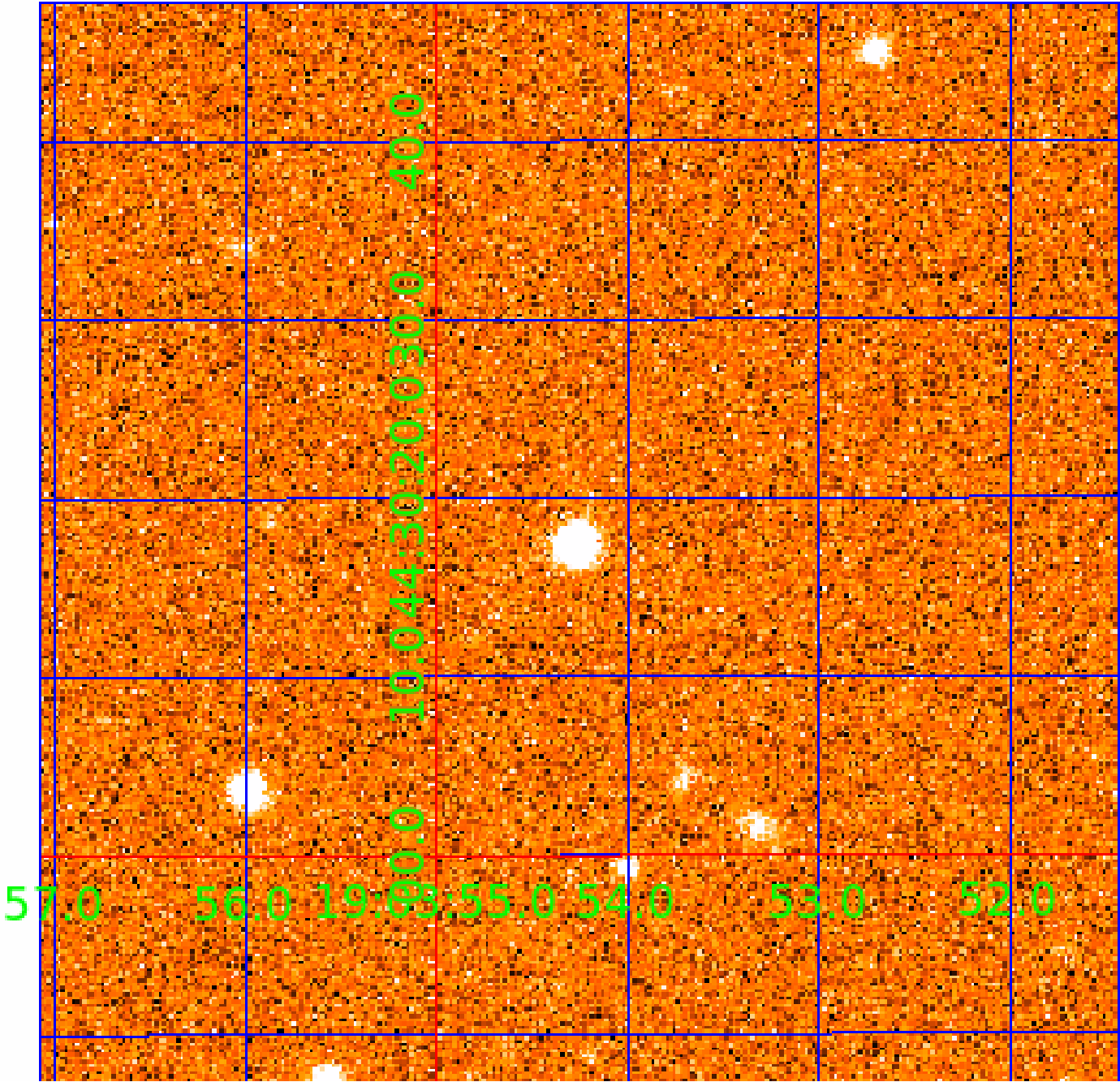


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008482263

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})
008482263-01	OBS	No	368.404286	235.636969	1382.3	13.898	8.2	9.0	0.97	6018	3.65	1.06
008482263-02	OBS	No	314.809144	288.047213	573.9	21.963	12.6	8.1	0.97	6018	2.86	1.31
008482263-03	OBS	No	369.922562	199.822448	1186.6	18.741	7.7	7.2	0.97	6018	3.43	1.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008482263-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008482263-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008482263-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

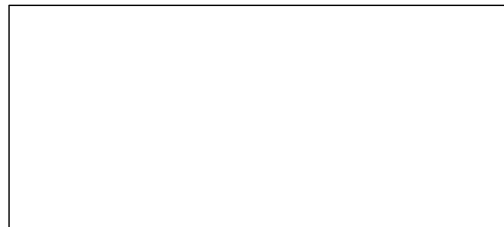
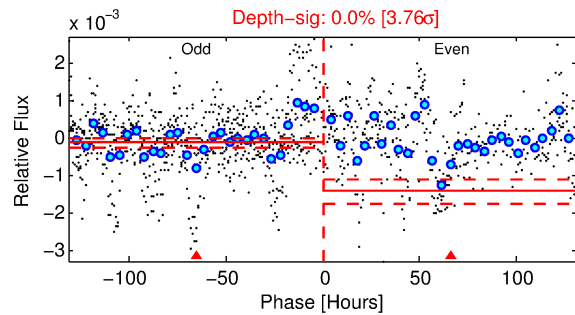
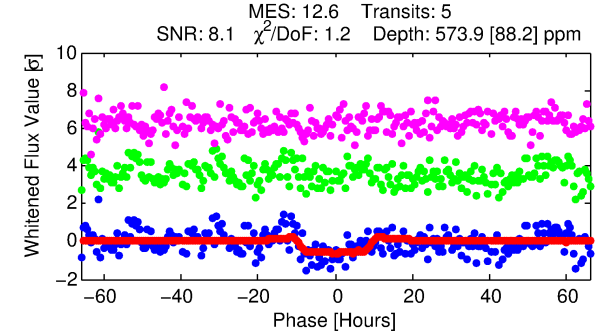
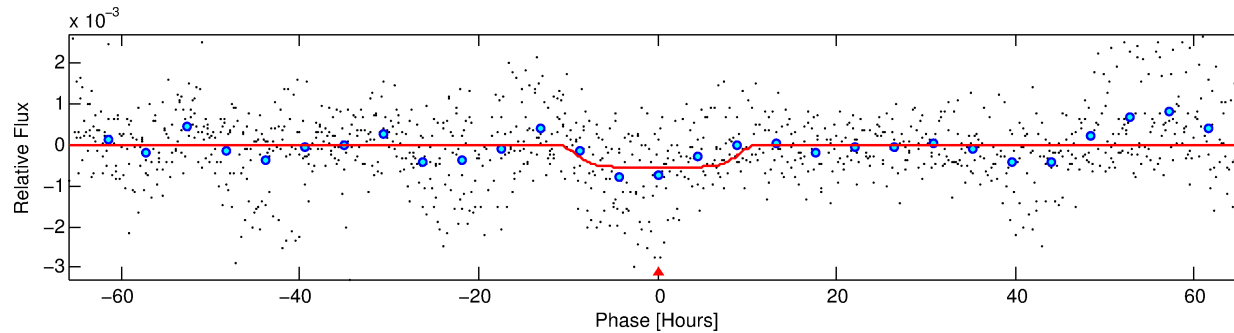
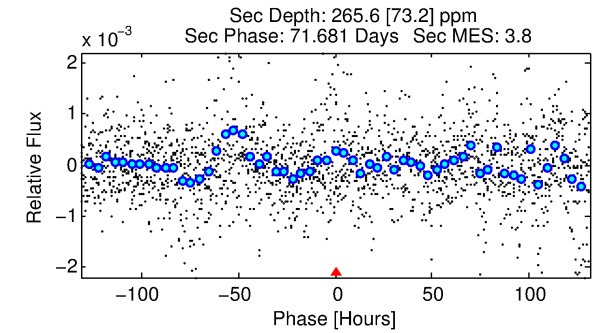
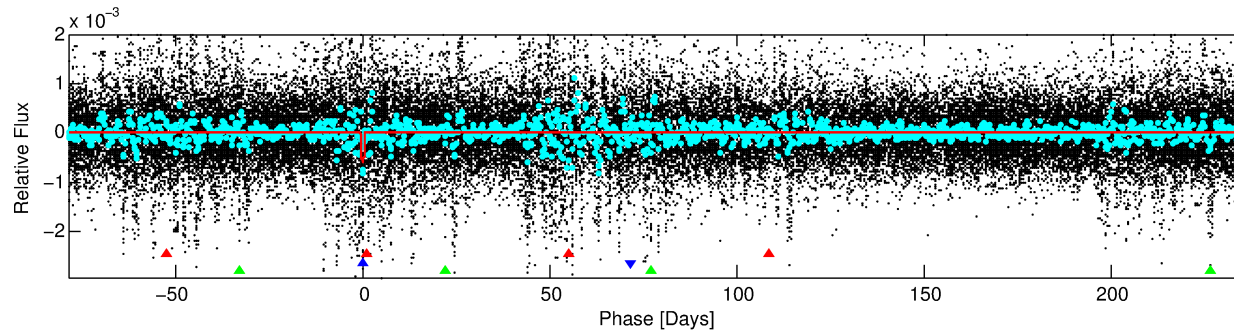
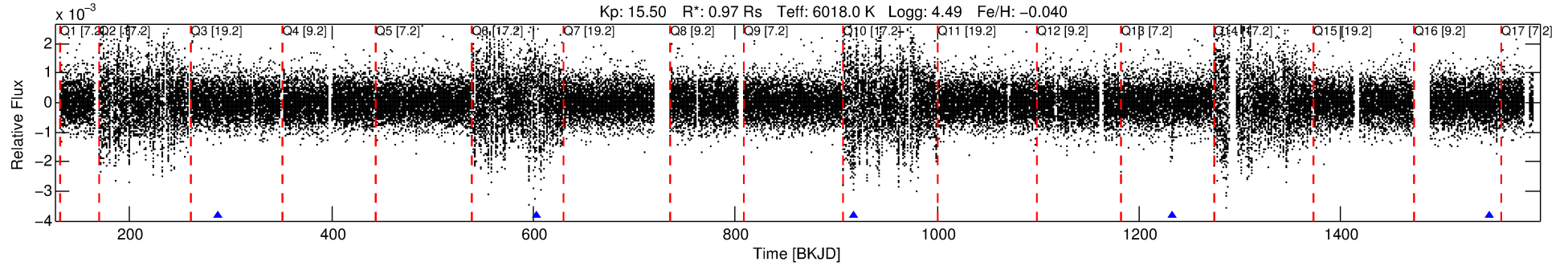
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008482263-02

No Significant Match Found

DV One-Page Summary

KIC: 8482263 Candidate: 2 of 3 Period: 314.809 d



DV Fit Results:

Period = 314.80914 [0.01688] d
Epoch = 288.0472 [0.0440] BKJD
Rp/R* = 0.0268 [0.0032]
a/R* = 47.28 [18.56]
b = 0.93 [0.06]
Seff = 1.31 [0.53]
Teq = 273 [28] K
Rp = 2.86 [0.95] Re
a = 0.9234 [0.2410] AU
Ag = 15273.22 [8021.64] [1.90σ]
Teffp = 4689 [455] K [9.68σ]

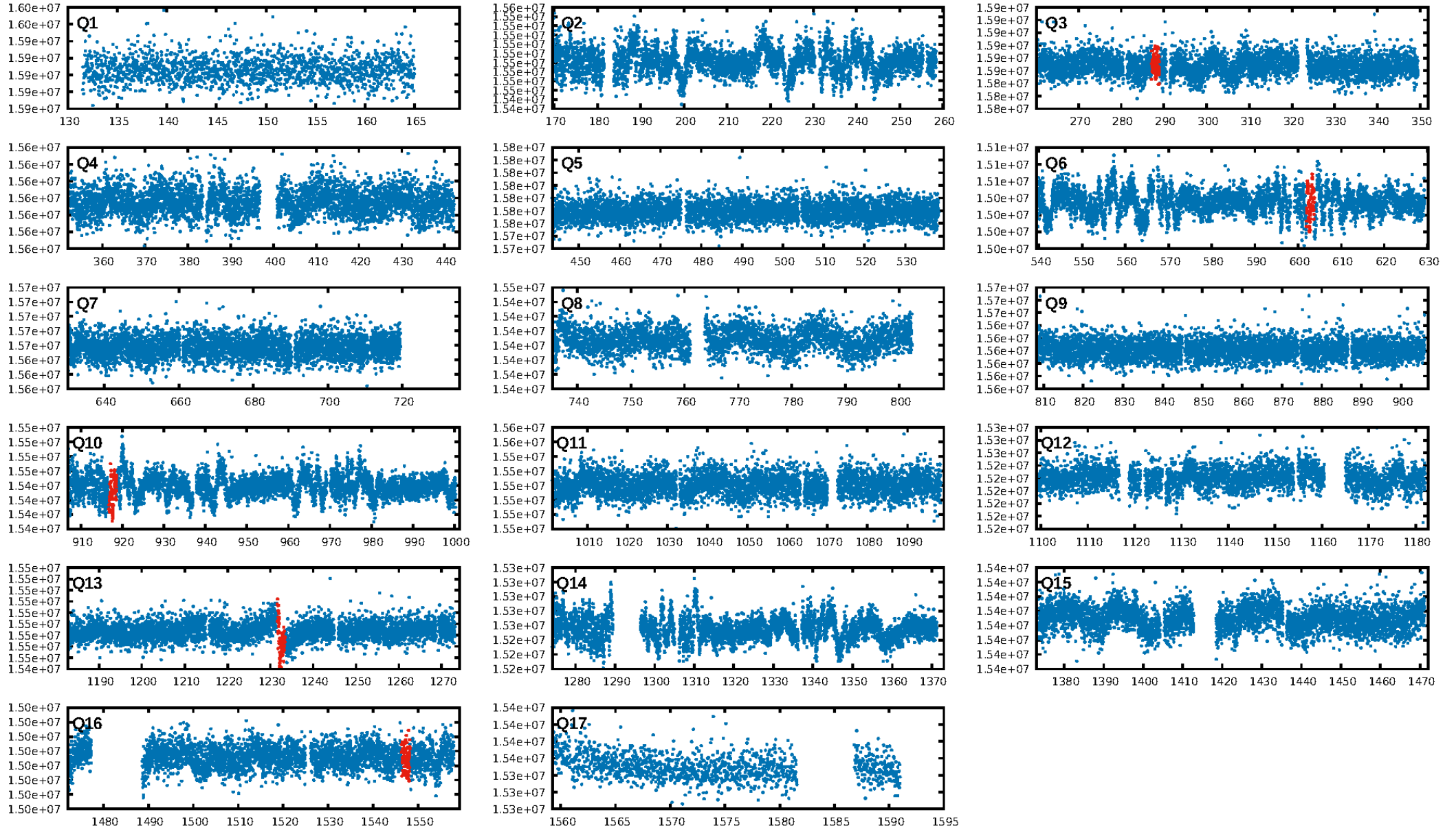
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [49.49σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGoF-sig: 80.2%
Bootstrap-pfa: 3.27e-18
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 1.378
Centroid-sig: 68.3%
Centroid-so: 0.984 arcsec [0.55σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.67 [2/3]

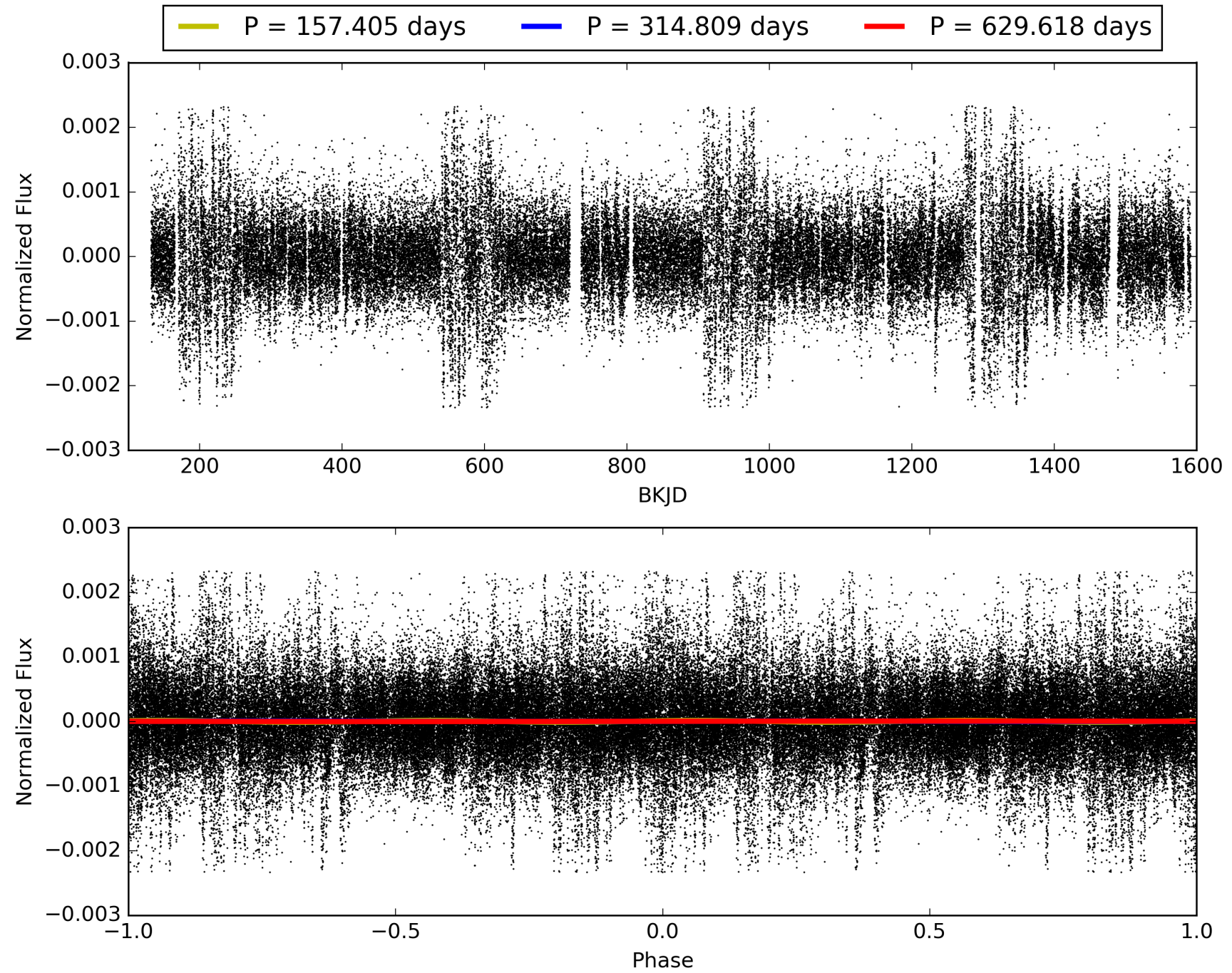
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:56:17 Z

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

TCE 008482263-02, PDC Light Curves

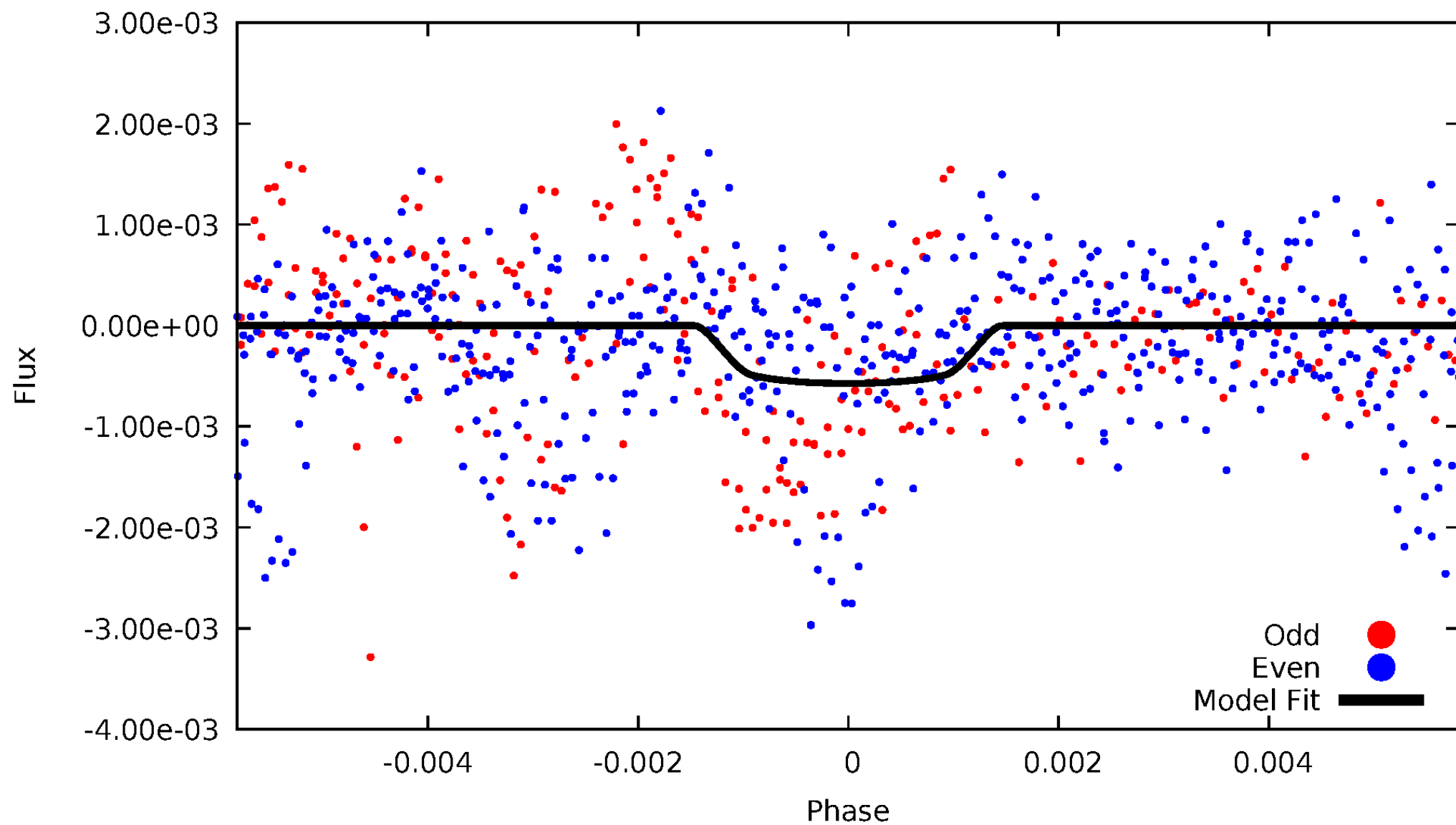


TCE 008482263-02



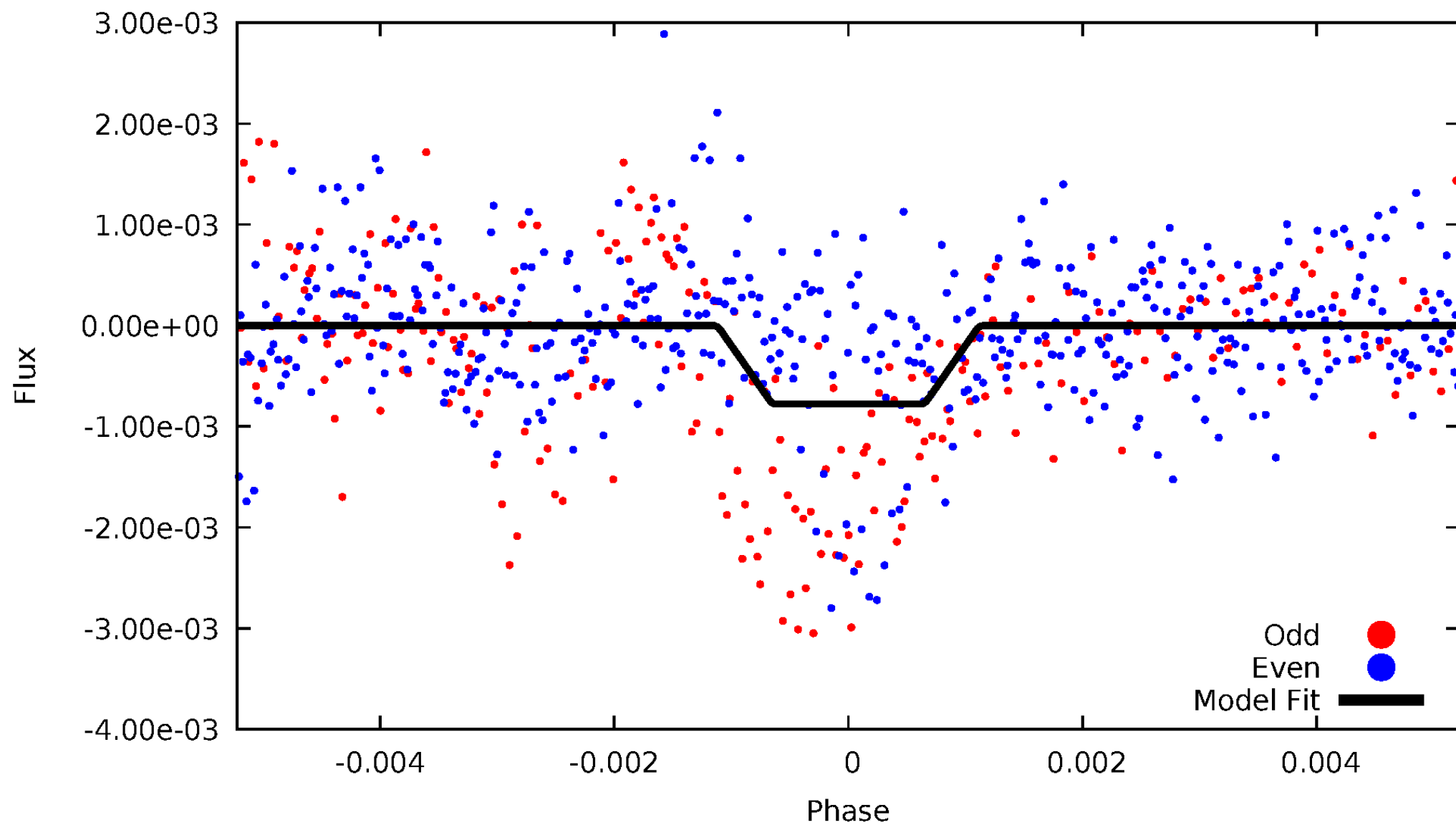
DV Odd/Even

TCE 008482263-02



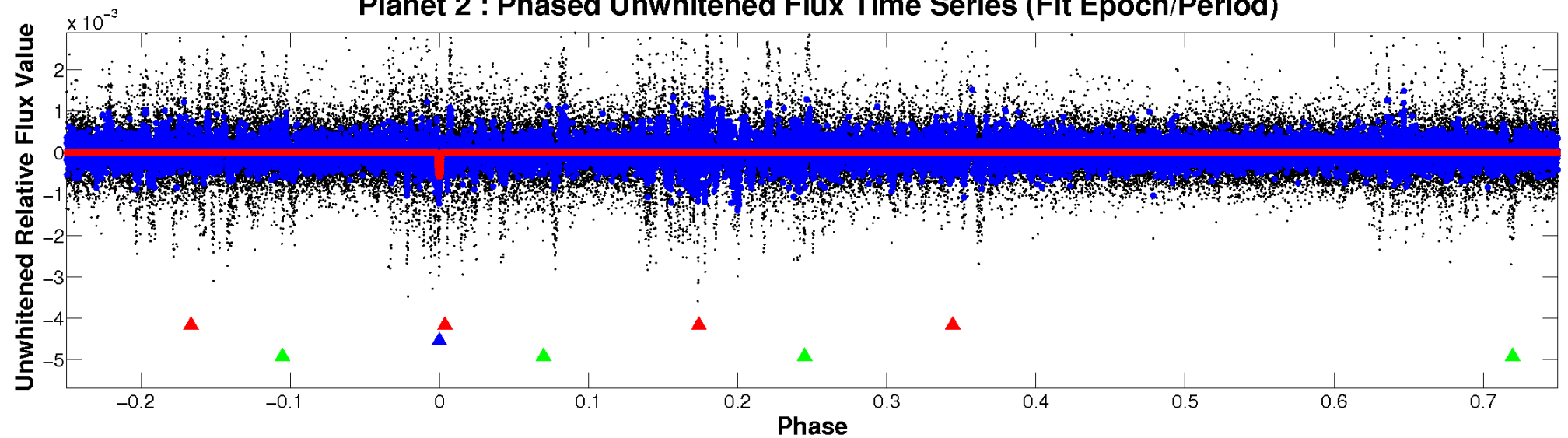
ALT Odd/Even

TCE 008482263-02

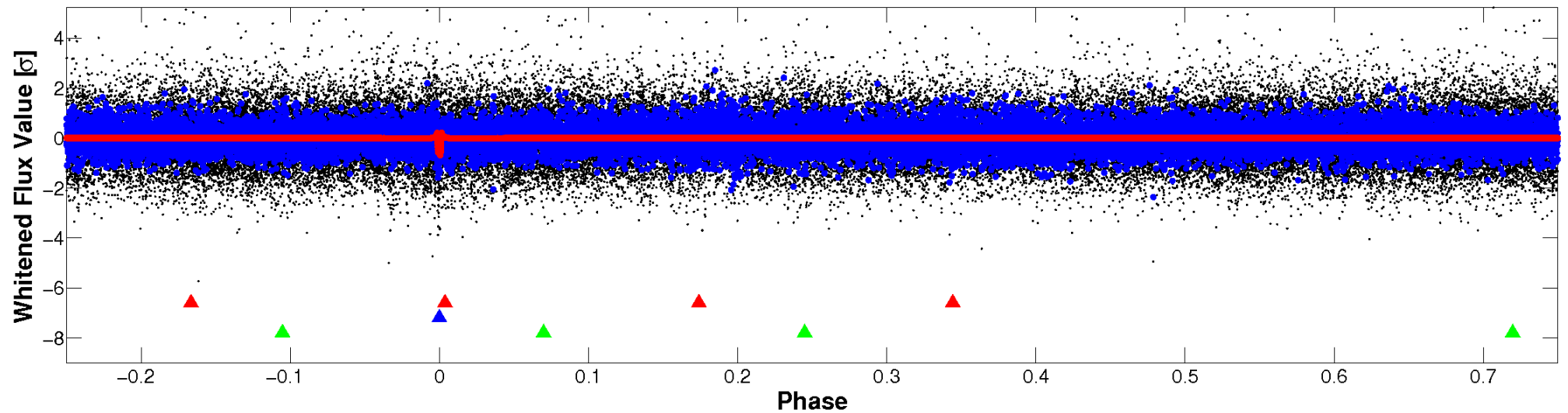


Non-Whitened Vs. Whitened Light Curve

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



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



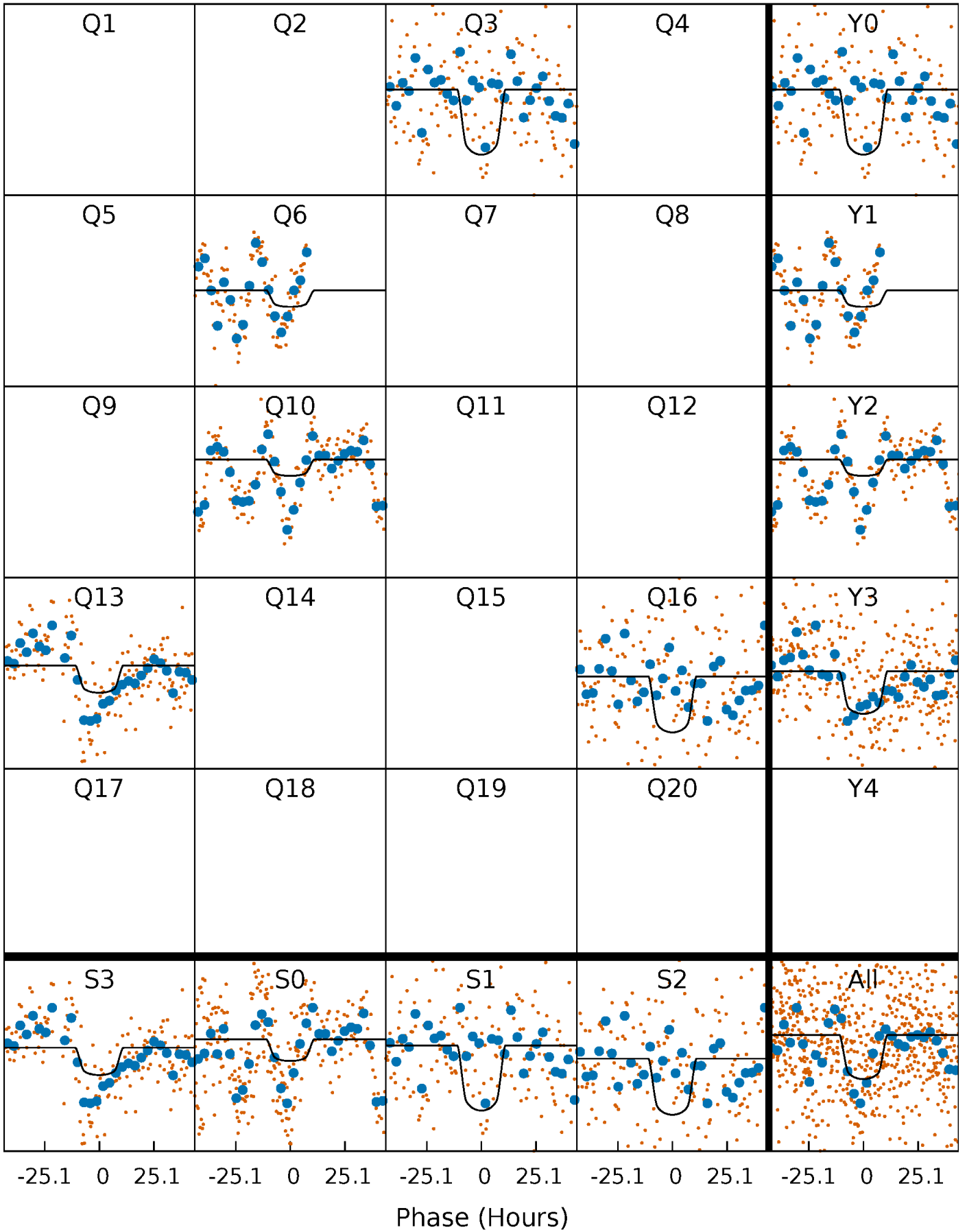
PDC Quarter-Phased Transit Curves

TCE 008482263-02 $P=314.809144$ Days $T_0=288.047213$ (BKJD)



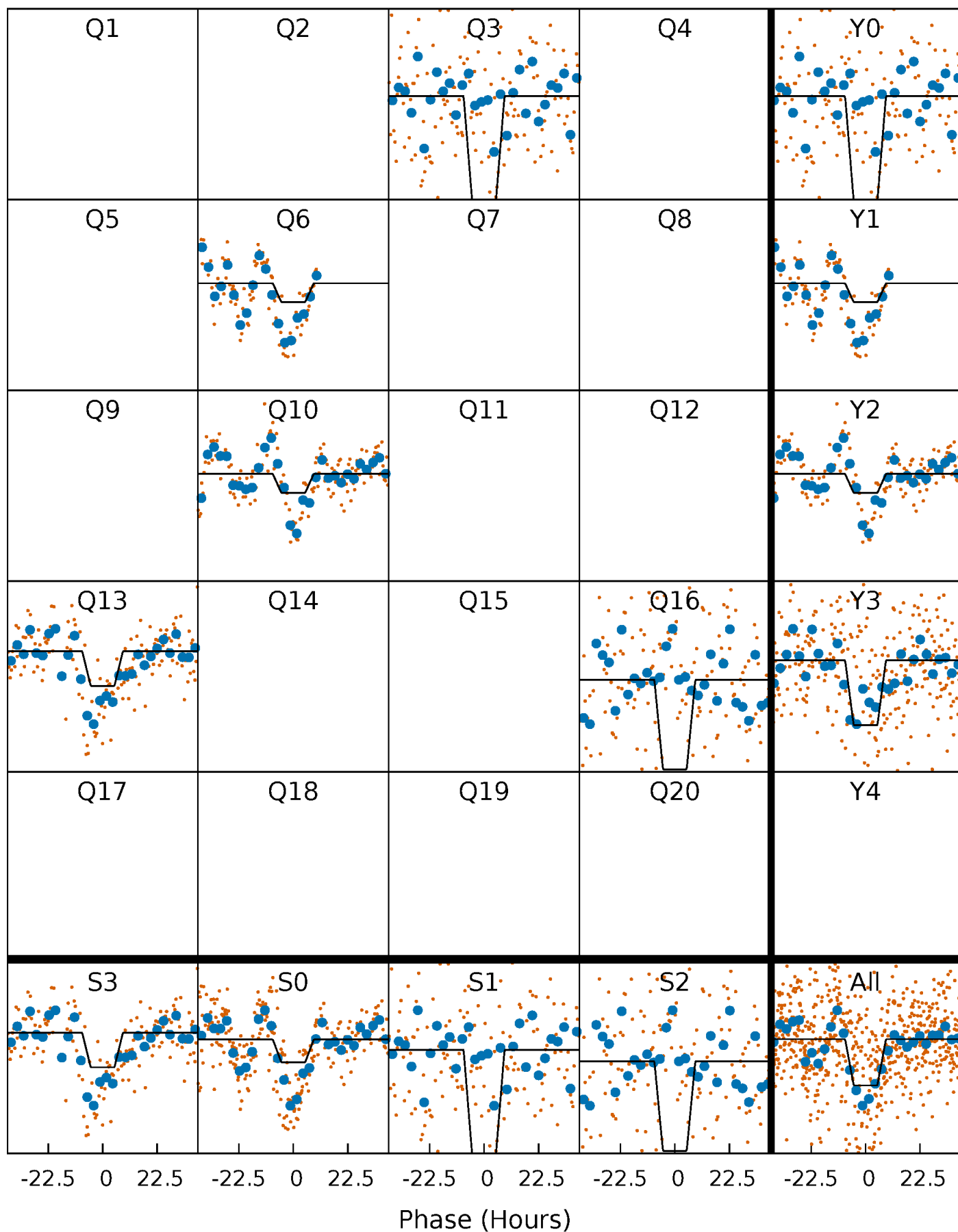
DV Quarter-Phased Transit Curves

TCE 008482263-02 $P=314.809144$ Days $T_0=288.047213$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

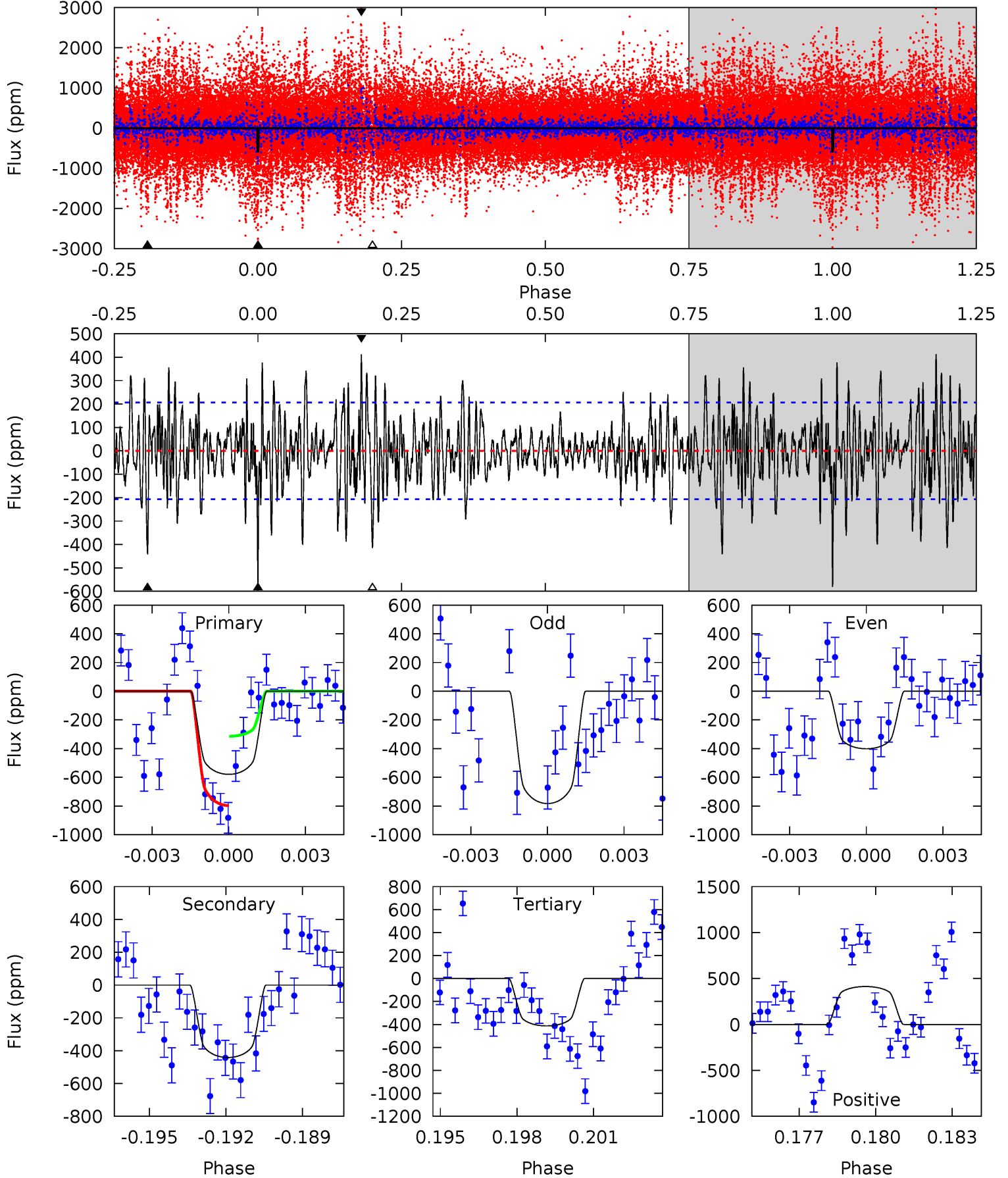
TCE 008482263-02 P=314.833481 Days $T_0=287.932424$ (BKJD)



DV Model-Shift Uniqueness Test

008482263-02, P = 314.809144 Days, E = 288.047213 Days

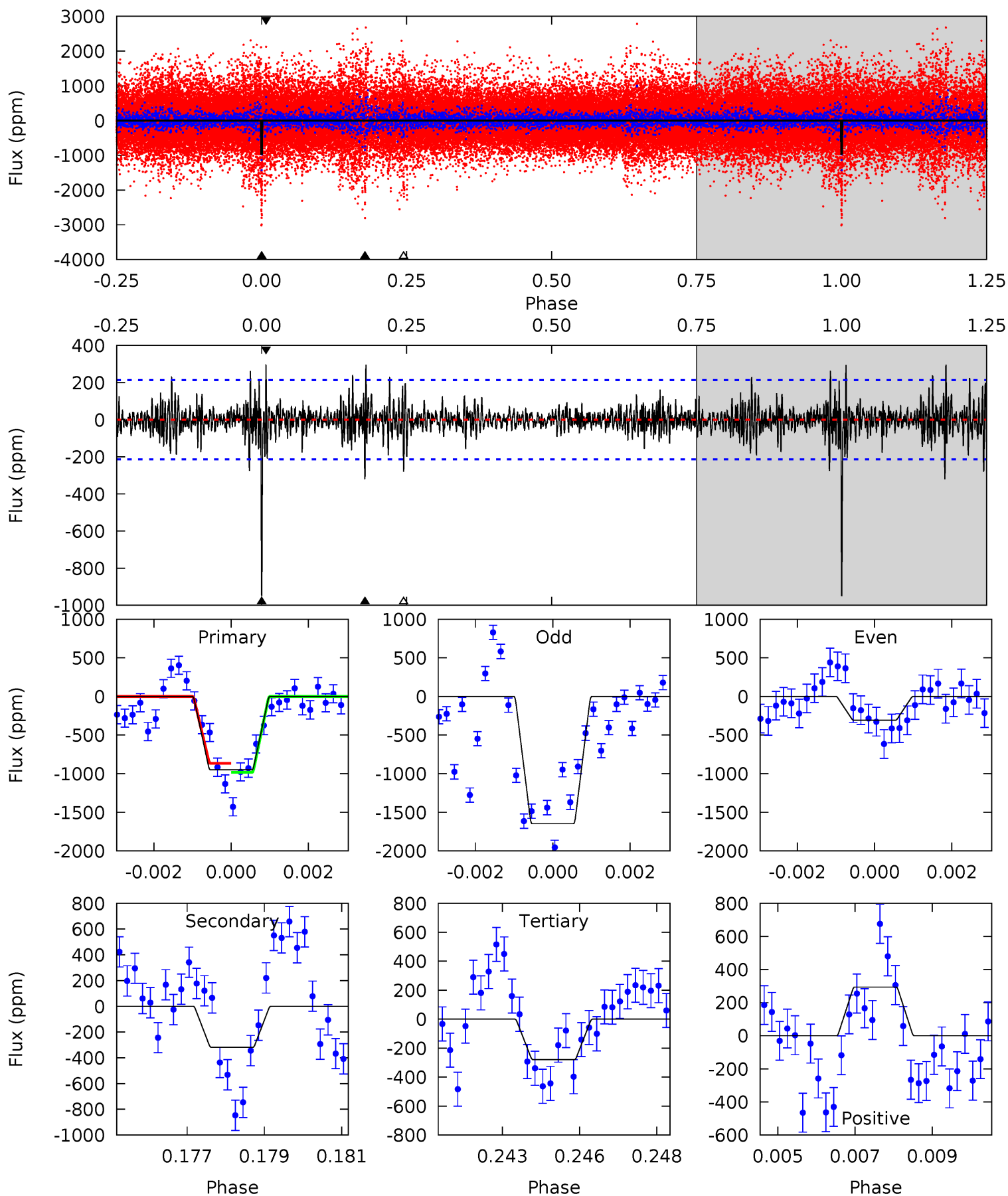
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.7	11.2	10.5	10.5	5.26	2.97	2.84	4.24	4.25	0.73	0.74	4.53	1.23	0.42	6.13



Alt Model-Shift Uniqueness Test

008482263-02, P = 314.833481 Days, E = 287.932424 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.6	7.92	6.92	7.29	5.30	3.05	1.34	16.6	16.3	0.99	0.62	16.3	0.70	0.24	1.46



Stellar Parameters For KIC 008482263

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6018^{+190}_{-211}	$4.485^{+0.052}_{-0.208}$	$-0.040^{+0.250}_{-0.300}$	$0.975^{+0.302}_{-0.101}$	$1.058^{+0.134}_{-0.147}$	$1.608^{+0.351}_{-0.886}$
	+3%/-4%	+1%/-5%	+625%/-750%	+31%/-10%	+13%/-14%	+22%/-55%
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 008482263-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-442 ± 39	$2.96^{+0.62}_{-0.43}$	392^{+27}_{-22}	5362^{+384}_{-331}	22948^{+7812}_{-6861}
Alt.	-319 ± 40	$3.07^{+0.55}_{-0.42}$	389^{+27}_{-21}	4897^{+324}_{-282}	15208^{+5536}_{-4164}

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 $A_{obs} \gg 1.0$

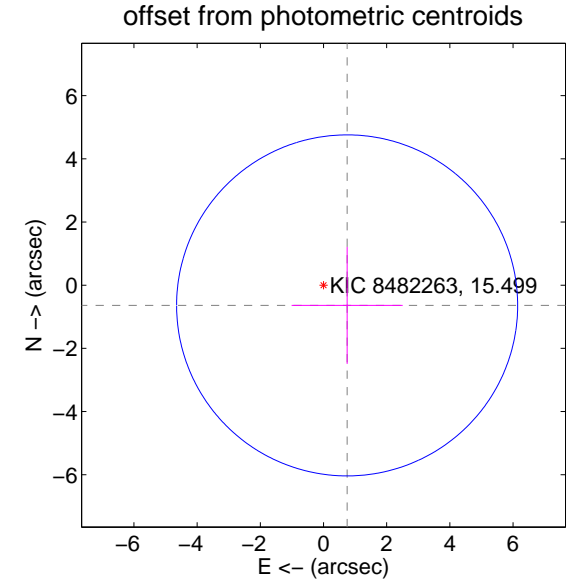
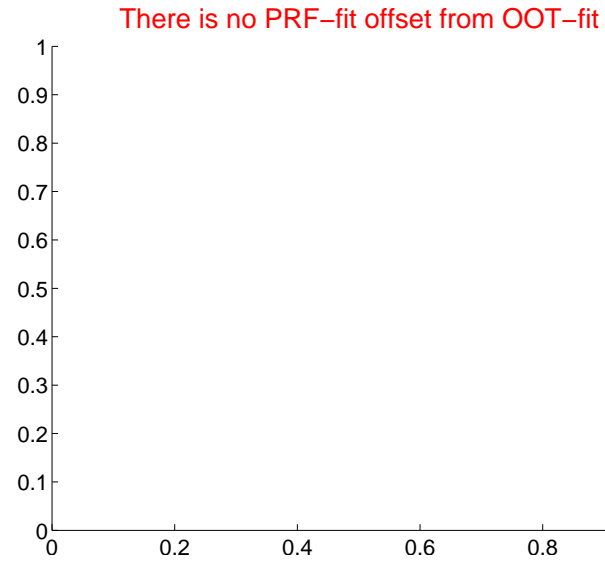
DV Centroid Data

Supplemental centroid analysis for 008482263-02. Kepler magnitude: 15.50. Transit SNR 8.08

There are 0 quarters with good PRF difference image offsets

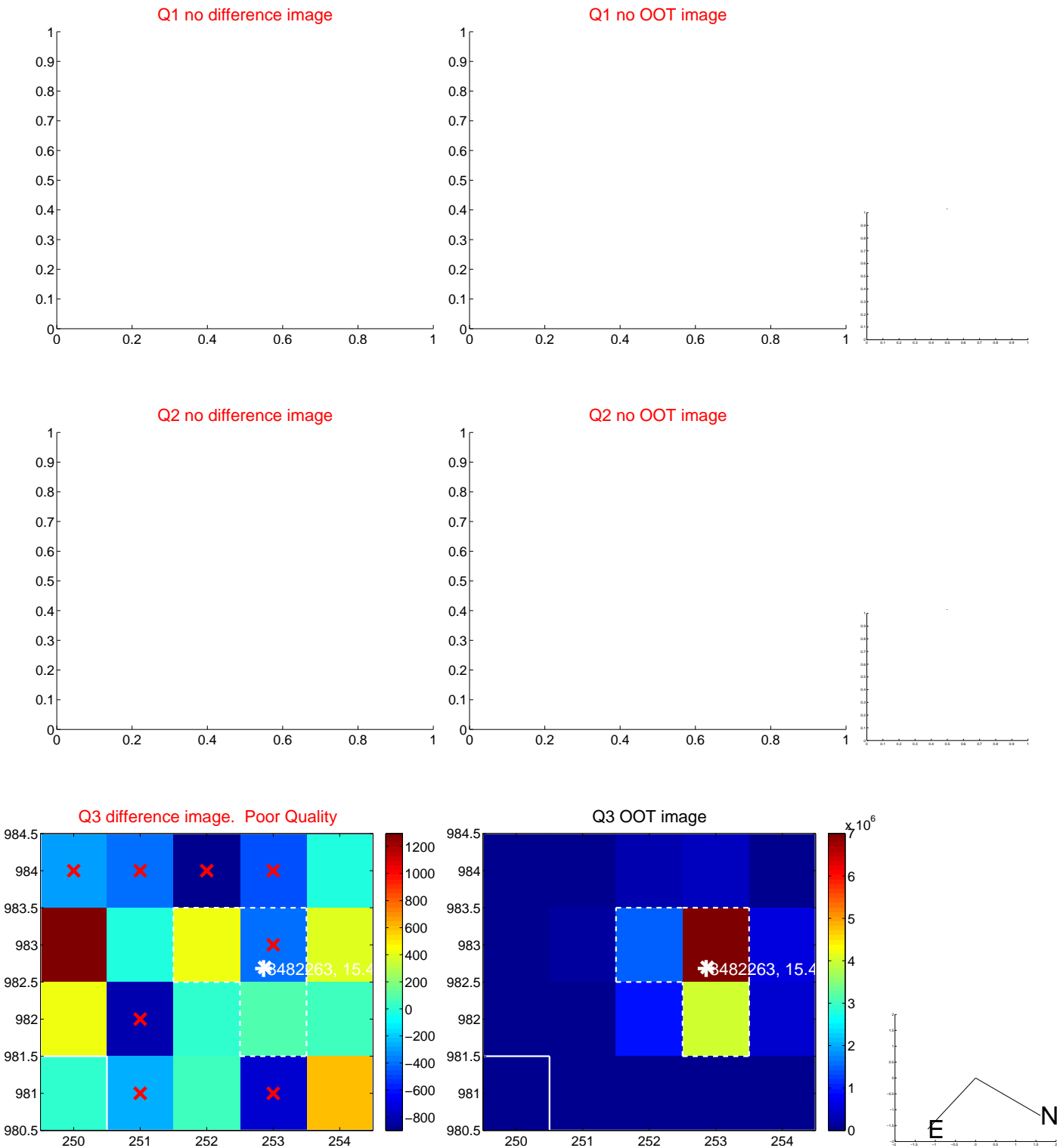
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	0.98 ± 1.80	0.55	-0.75 ± 1.76	-0.64 ± 1.85

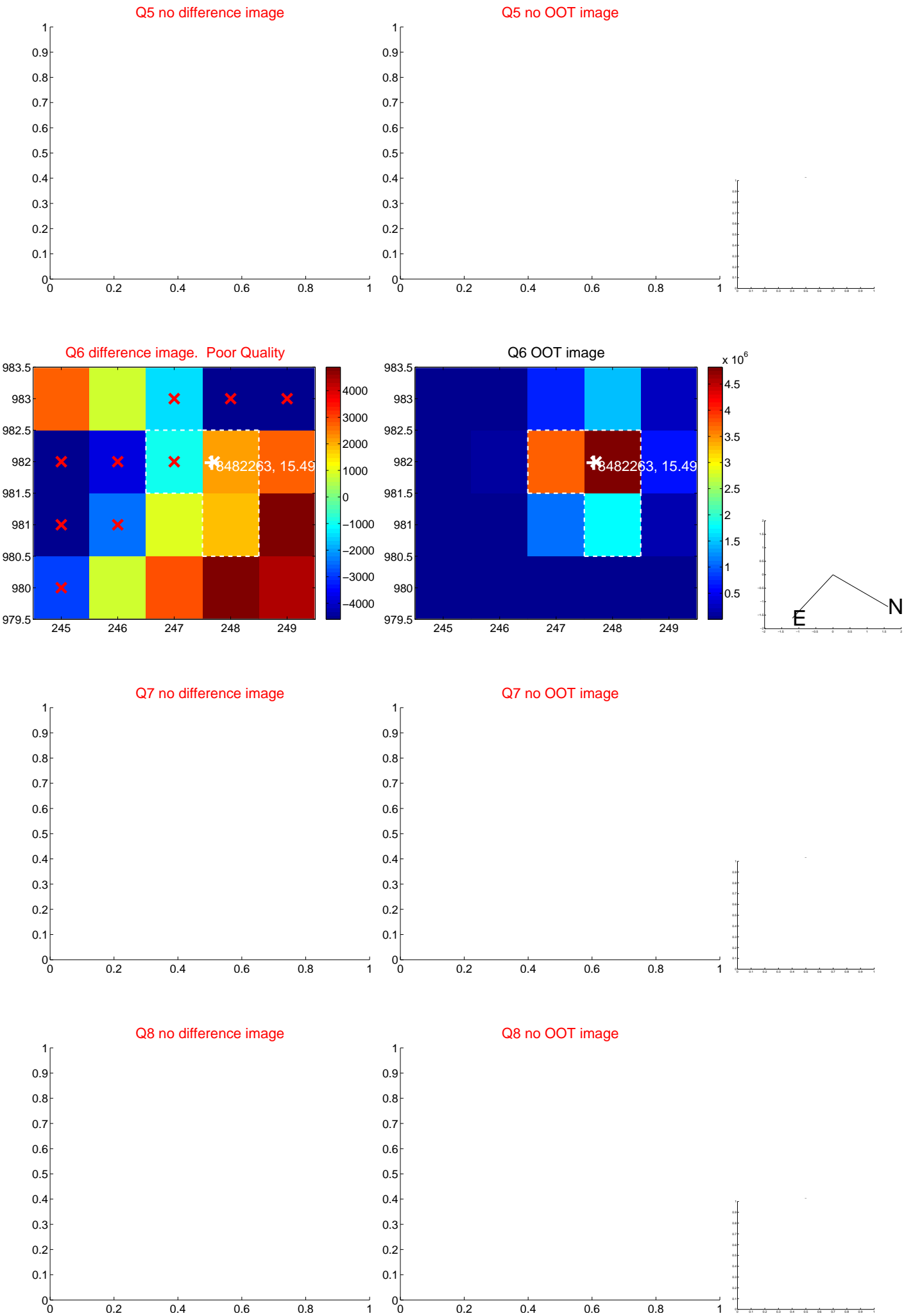


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

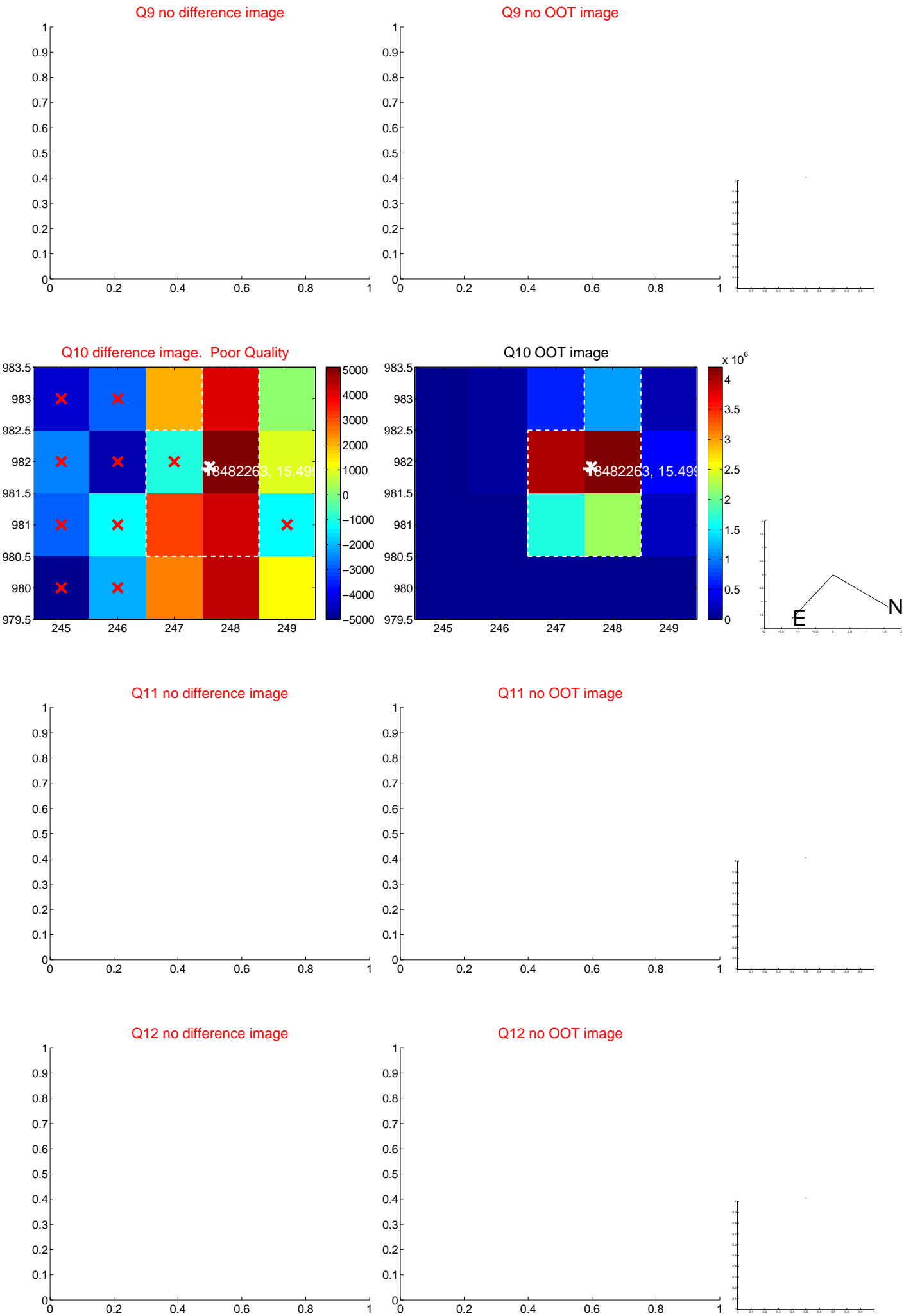
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



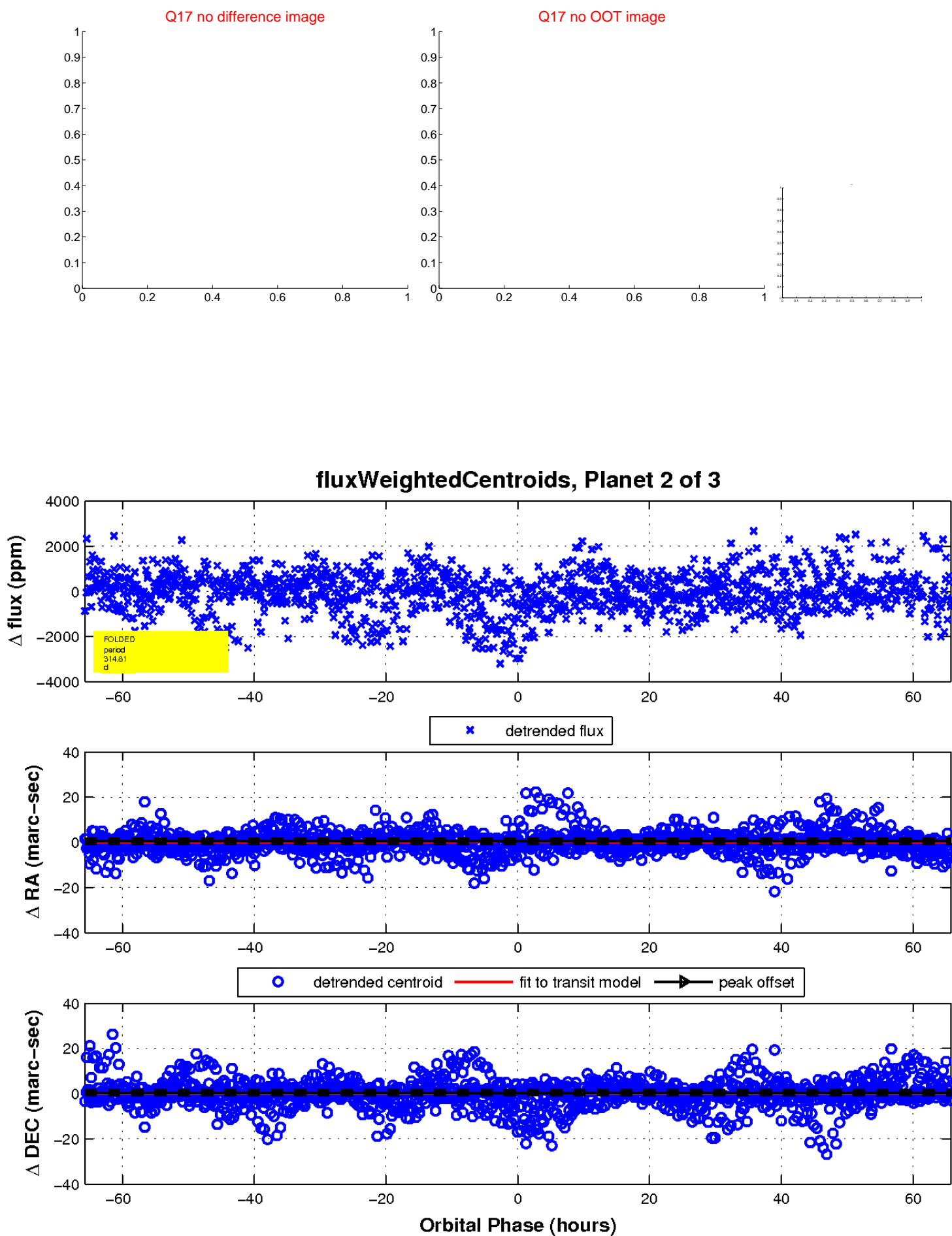
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

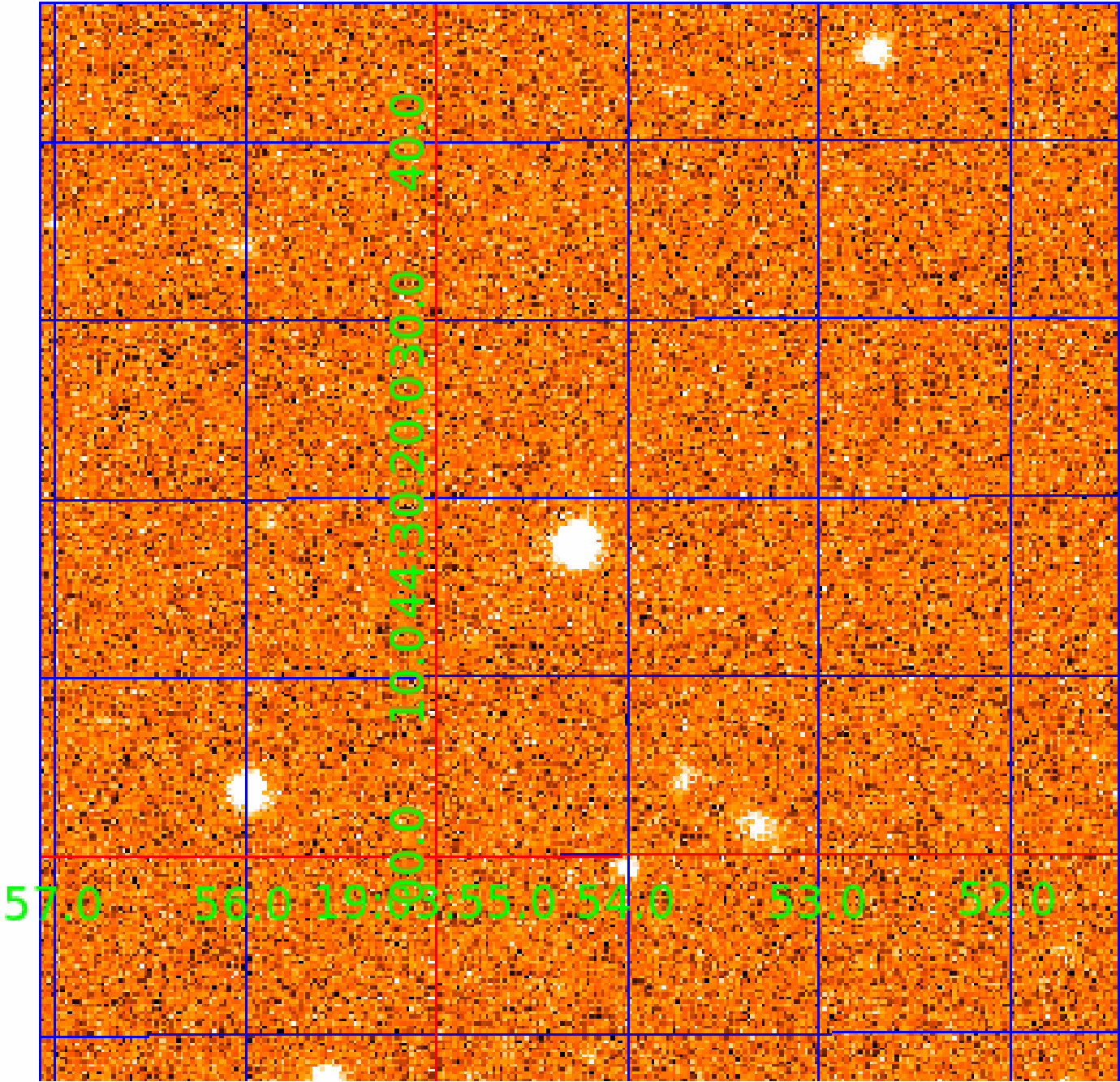


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008482263

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})
008482263-01	OBS	No	368.404286	235.636969	1382.3	13.898	8.2	9.0	0.97	6018	3.65	1.06
008482263-02	OBS	No	314.809144	288.047213	573.9	21.963	12.6	8.1	0.97	6018	2.86	1.31
008482263-03	OBS	No	369.922562	199.822448	1186.6	18.741	7.7	7.2	0.97	6018	3.43	1.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008482263-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008482263-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008482263-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

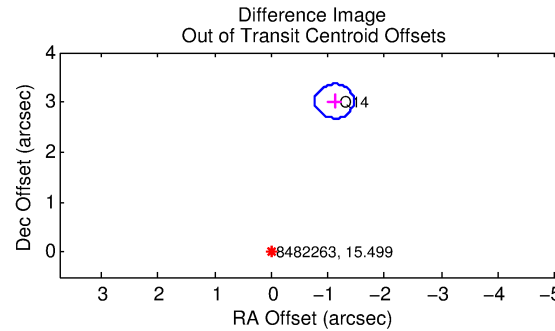
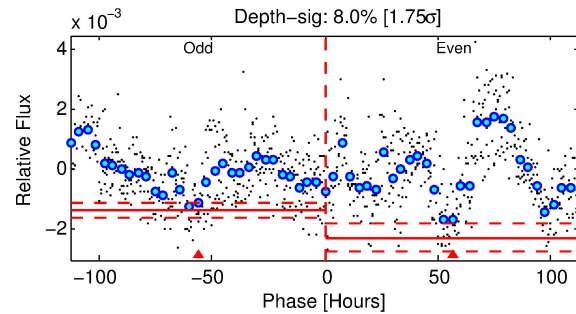
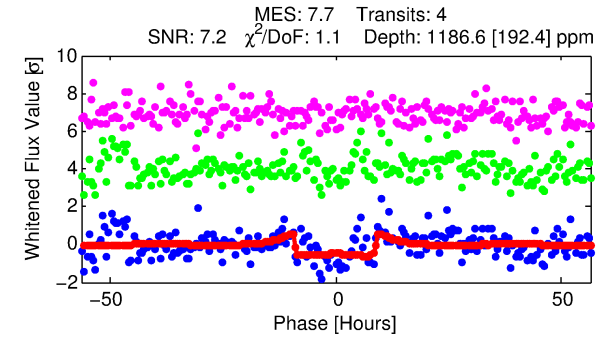
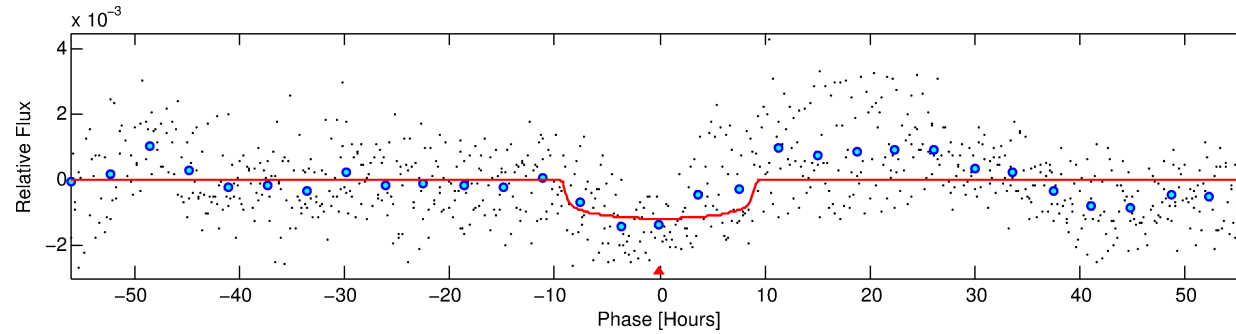
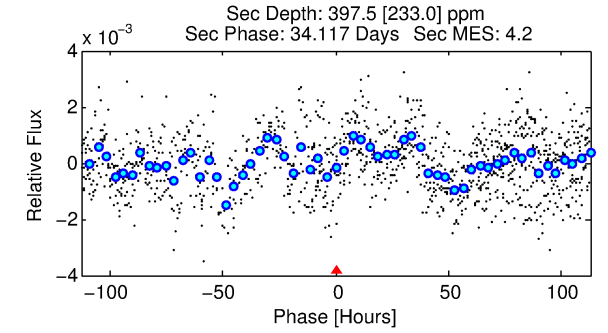
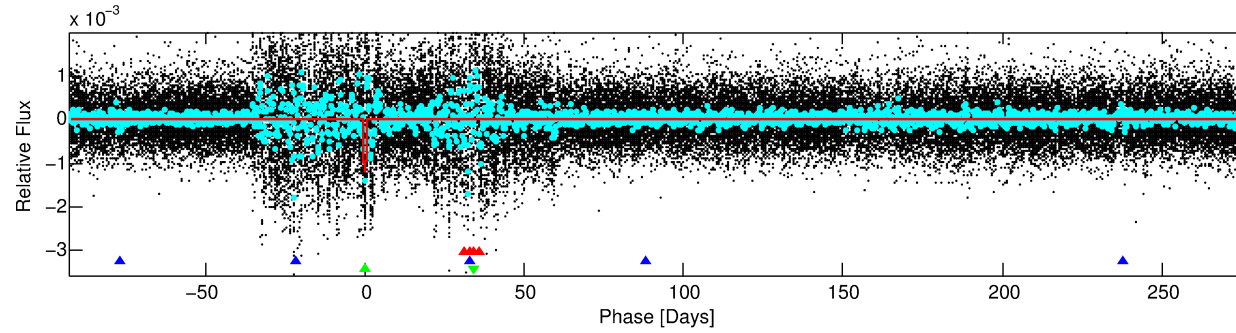
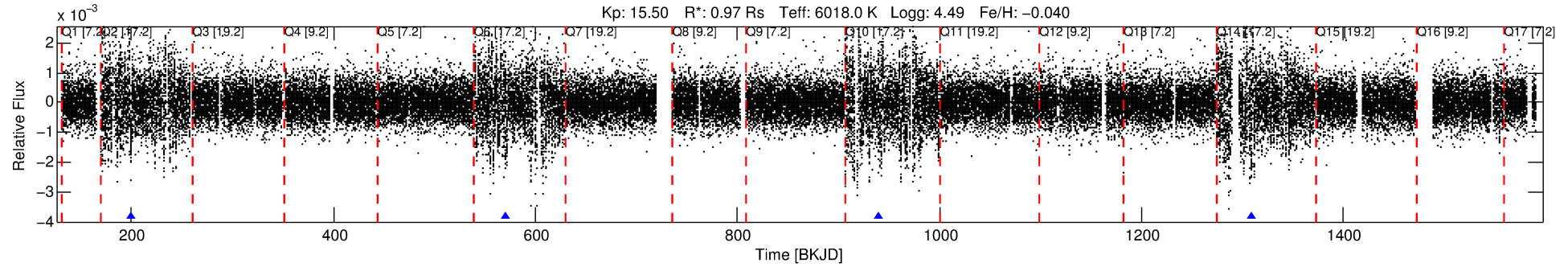
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008482263-03

No Significant Match Found

DV One-Page Summary

KIC: 8482263 Candidate: 3 of 3 Period: 369.923 d



DV Fit Results:

Period = 369.92256 [0.00898] d
Epoch = 199.8224 [0.0159] BKJD
Rp/R* = 0.0322 [0.0073]
a/R* = 139.03 [132.53]
b = 0.46 [1.61]
Seff = 1.06 [0.43]
Teq = 259 [26] K
Rp = 3.43 [1.32] Re
a = 1.0283 [0.2684] AU
Ag = 19667.18 [16371.05] [1.20σ]
Teff = 4733 [892] K [5.0σ]

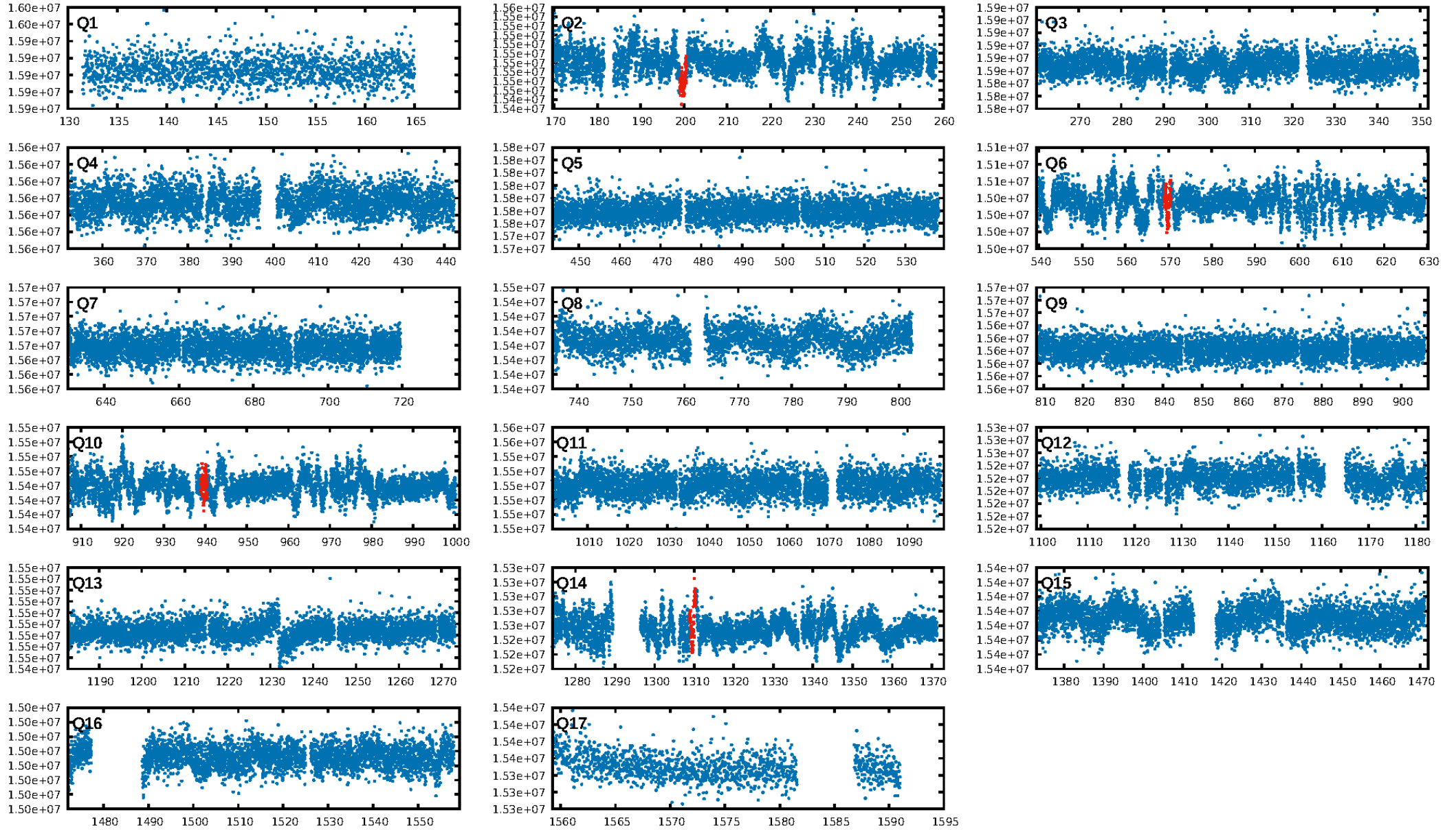
DV Diagnostic Results:

ShortPeriod-sig: 88.2% [1.56σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 6.4%
ModelChiSquareGoF-sig: 91.9%
Bootstrap-pfa: 1.91e-09
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.346
Centroid-sig: 0.0%
Centroid-so: 7.337 arcsec [2.57σ]
OotOffset-rm: 3.223 arcsec [28.20σ]
KicOffset-rm: 3.128 arcsec [27.37σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [2/2]

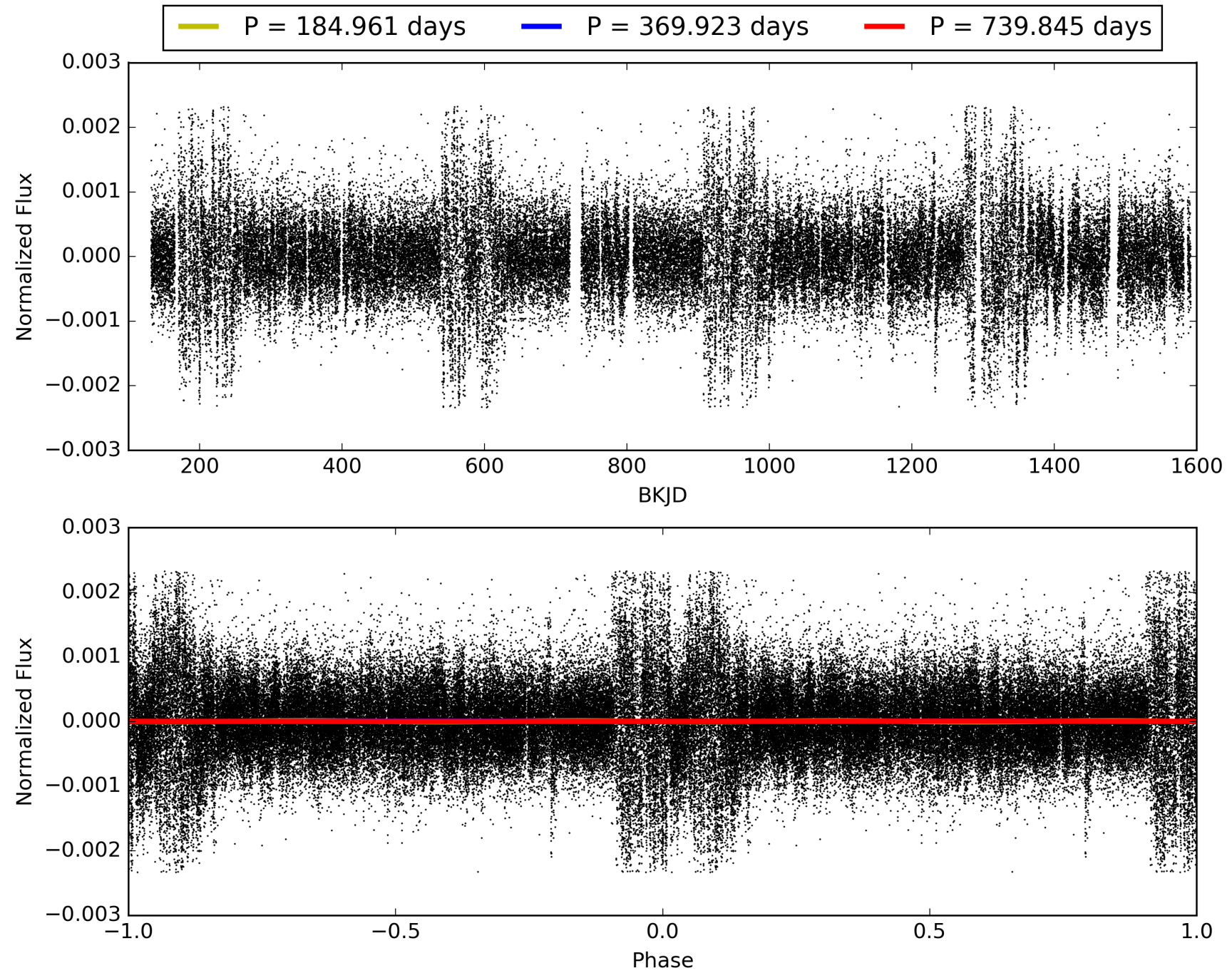
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:56:25 Z

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

TCE 008482263-03, PDC Light Curves

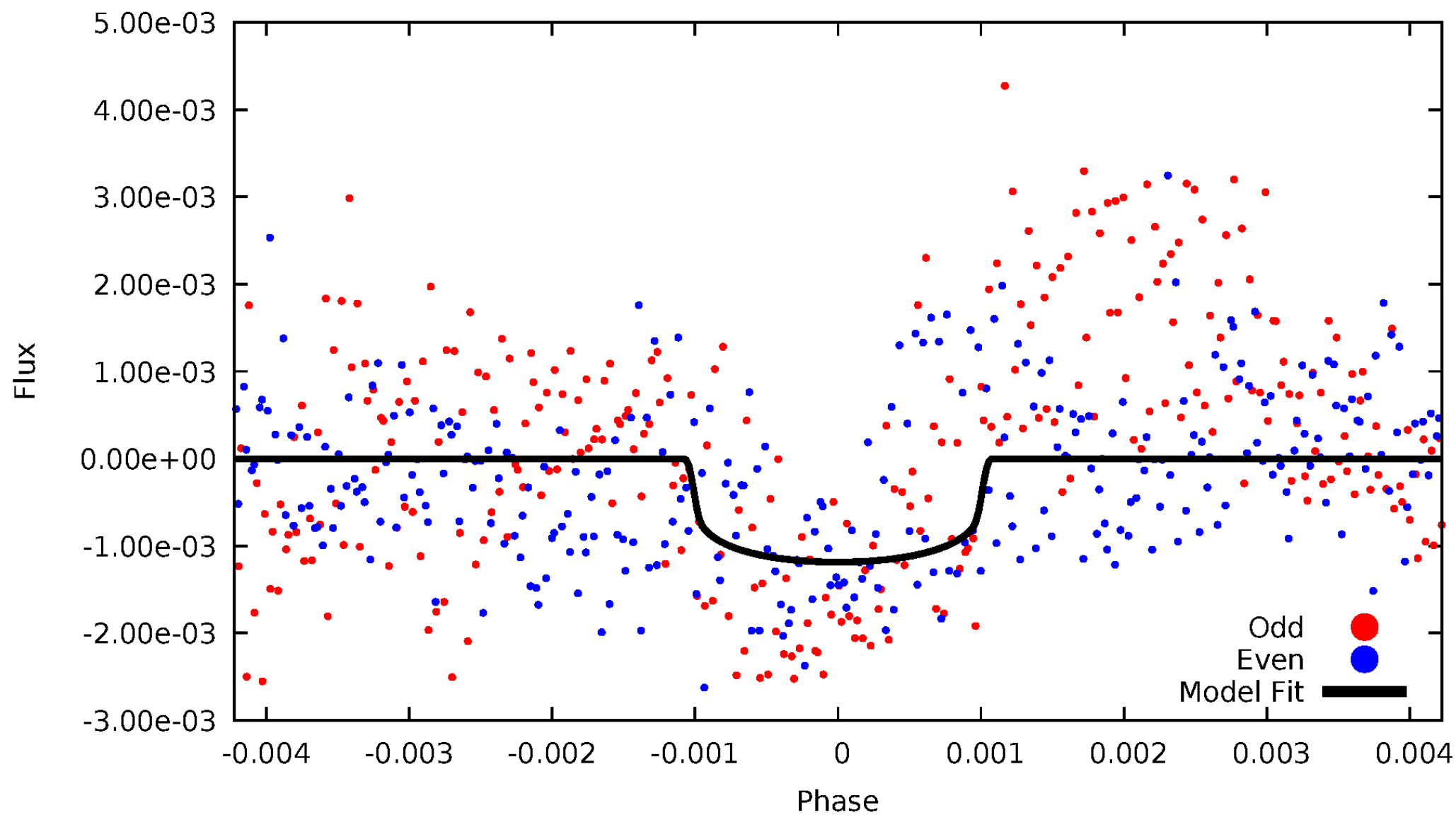


TCE 008482263-03



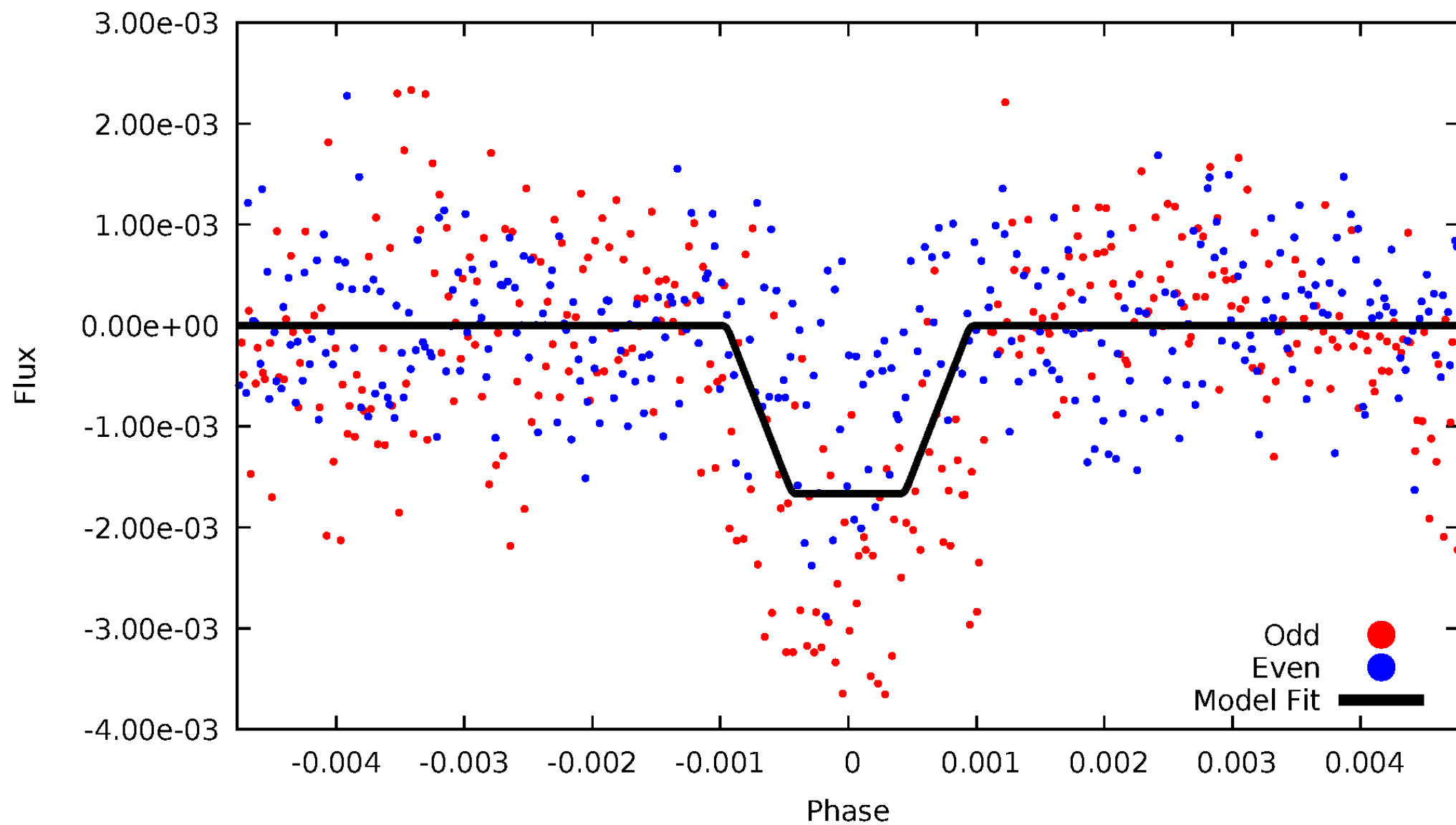
DV Odd/Even

TCE 008482263-03

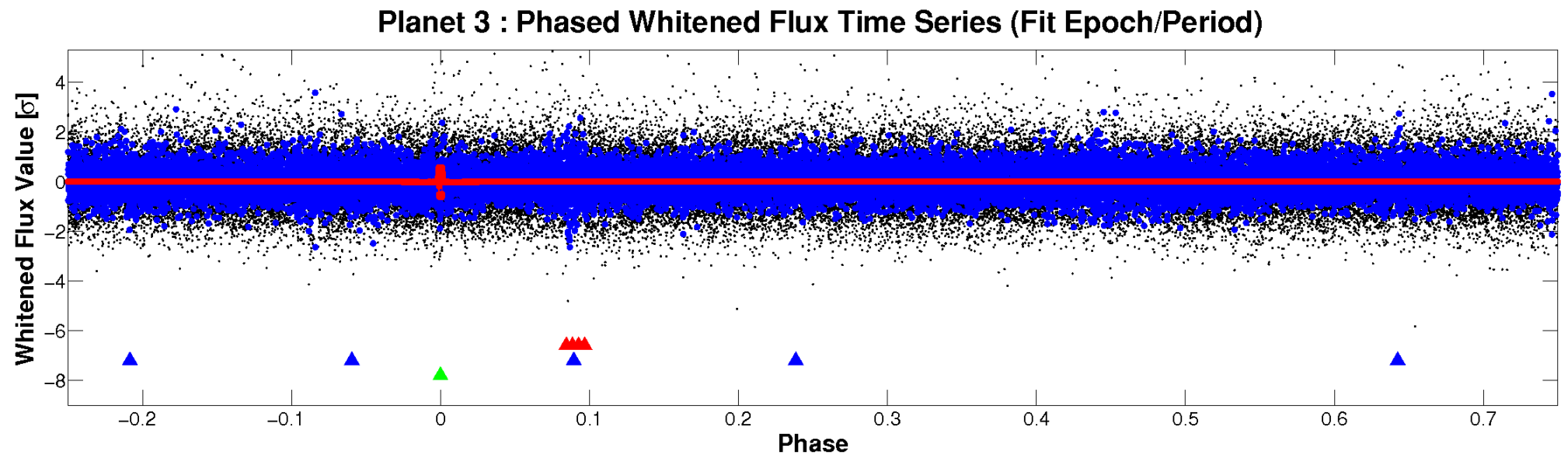
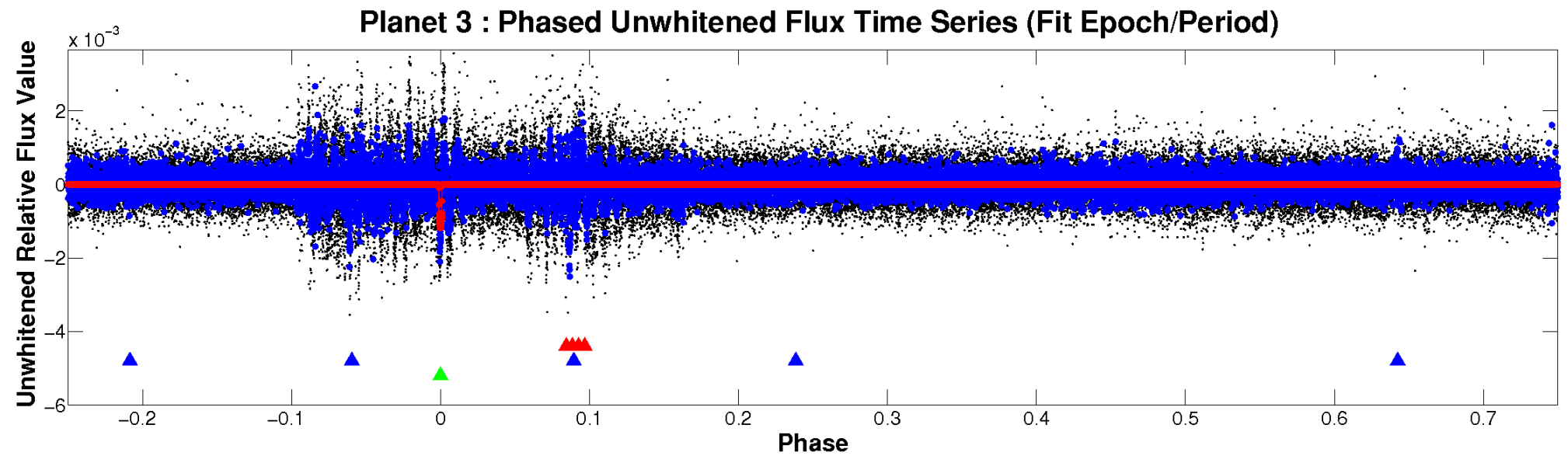


ALT Odd/Even

TCE 008482263-03

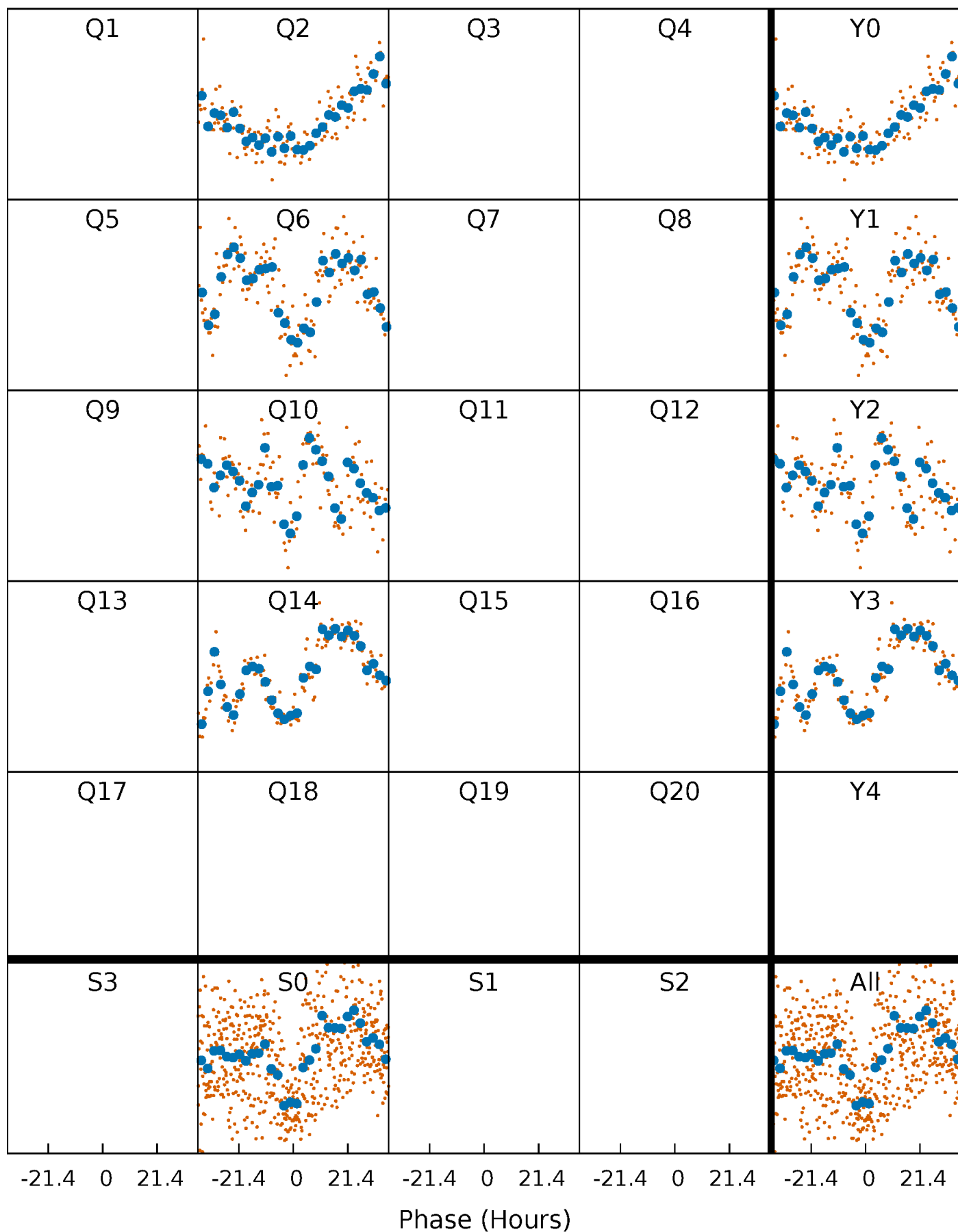


Non-Whitened Vs. Whitened Light Curve



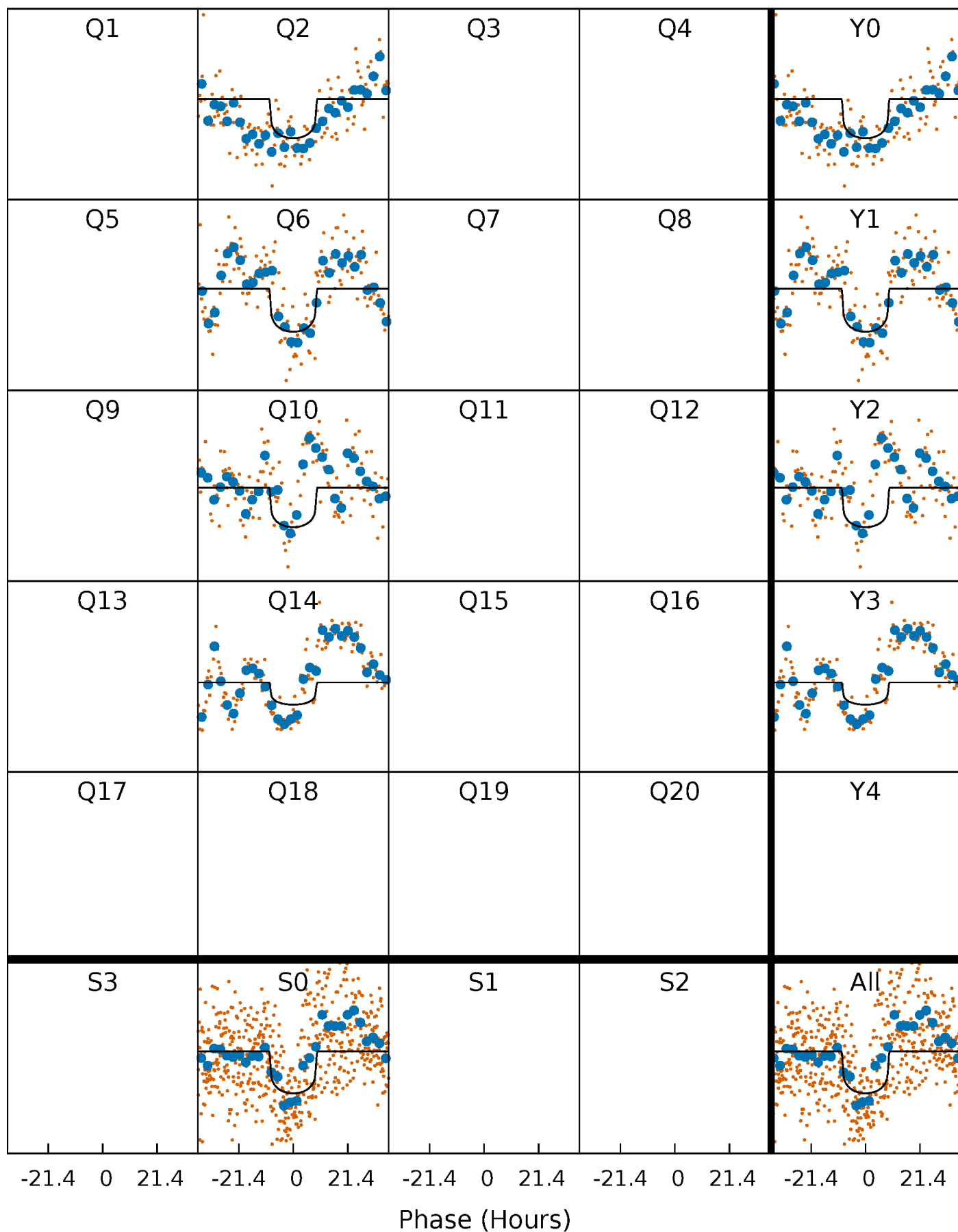
PDC Quarter-Phased Transit Curves

TCE 008482263-03 $P=369.922562$ Days $T_0=199.822448$ (BKJD)



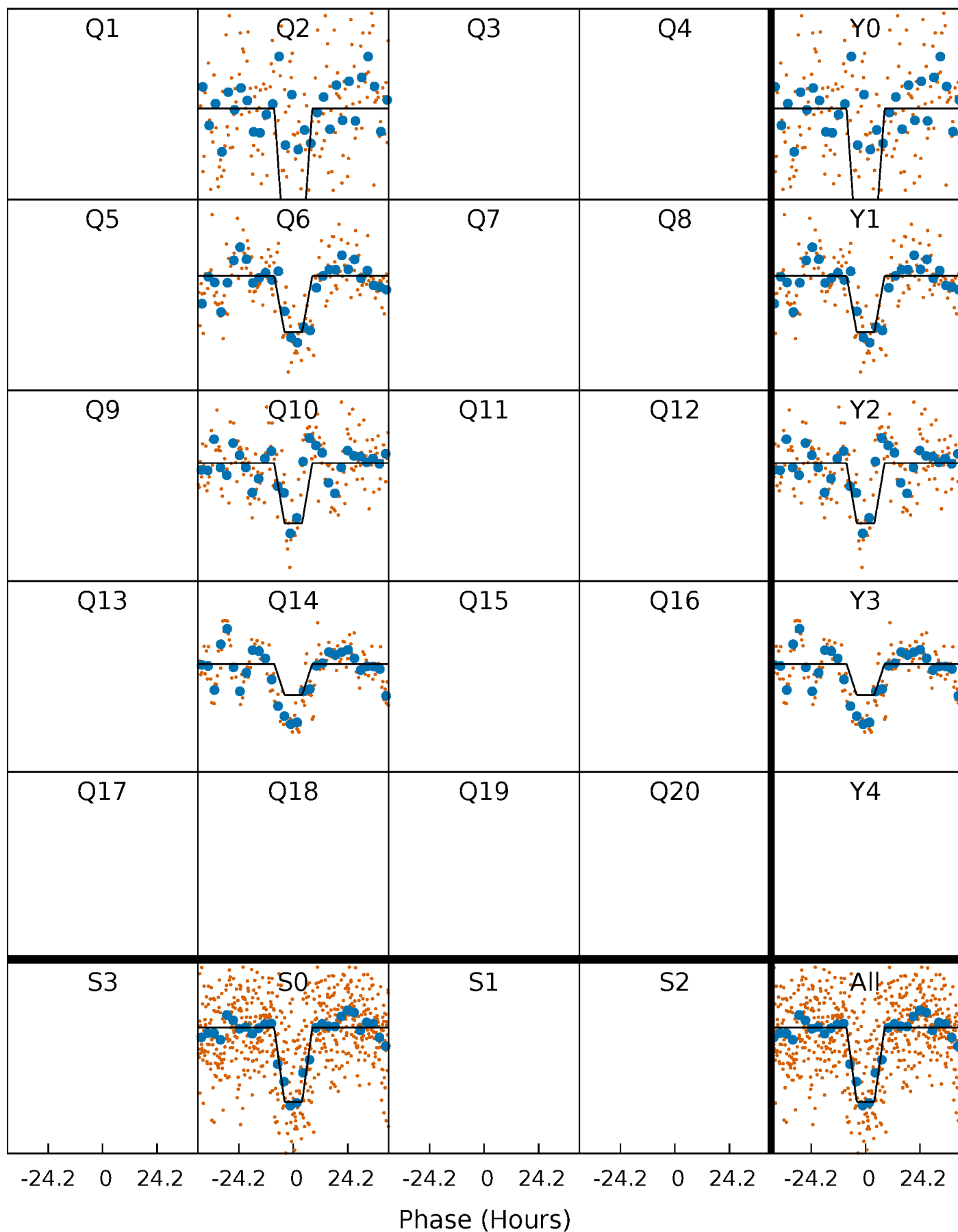
DV Quarter-Phased Transit Curves

TCE 008482263-03 $P=369.922562$ Days $T_0=199.822448$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

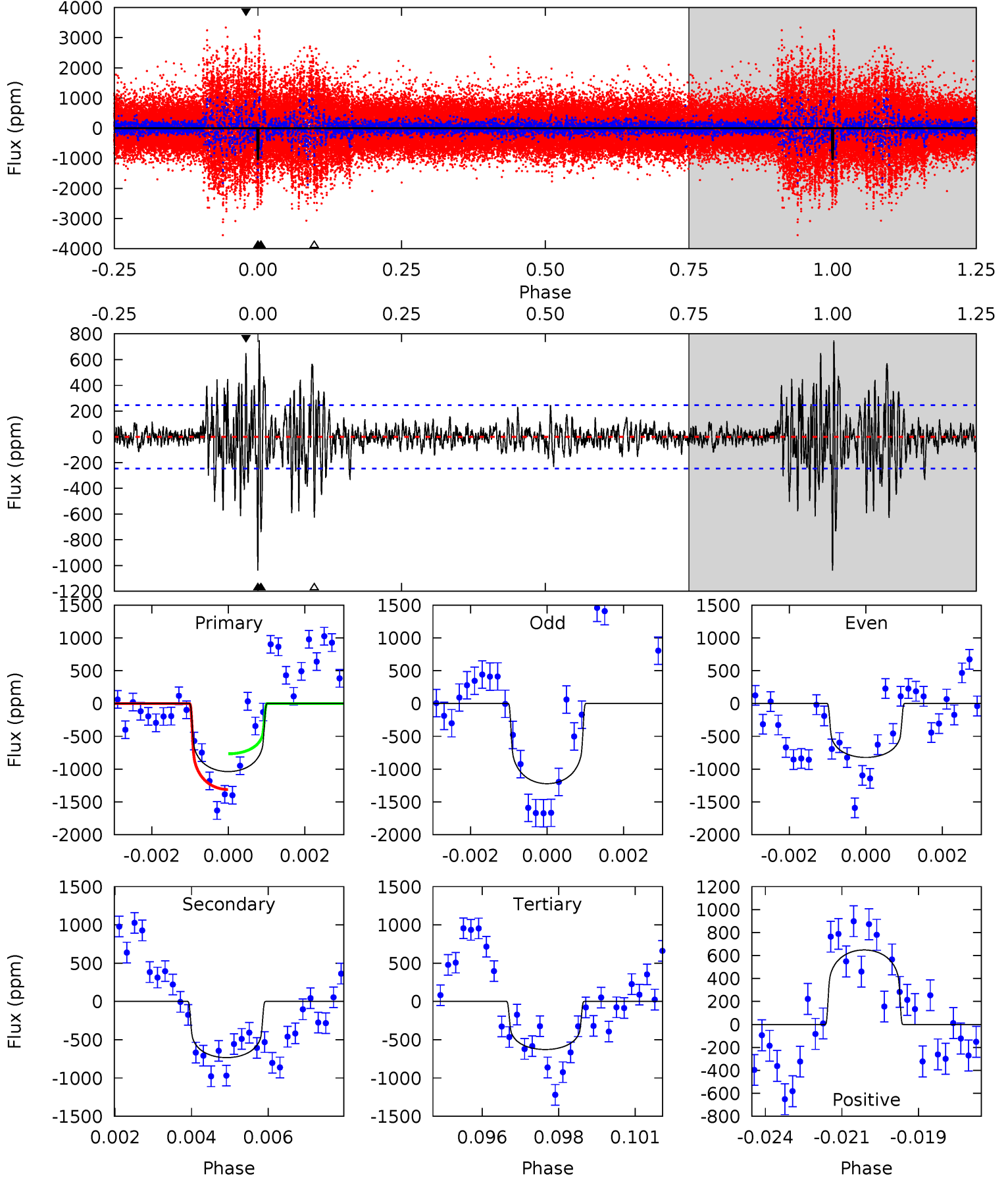
TCE 008482263-03 $P=369.922359$ Days $T_0=199.801378$ (BKJD)



DV Model-Shift Uniqueness Test

008482263-03, P = 369.922562 Days, E = 199.822448 Days

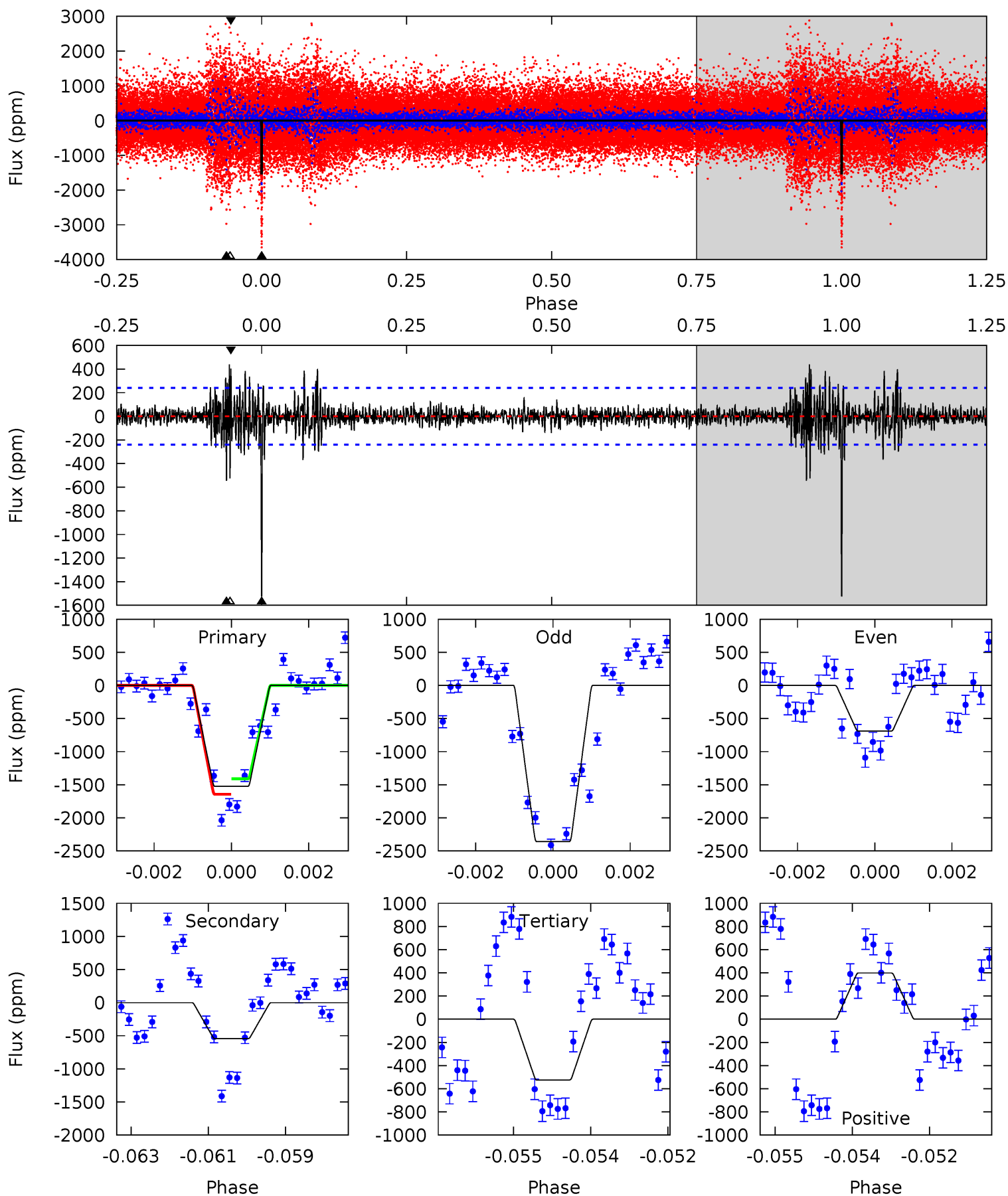
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.4	15.8	13.5	14.0	5.31	3.07	2.65	8.84	8.40	2.29	1.84	4.28	0.84	0.42	5.91



Alt Model-Shift Uniqueness Test

008482263-03, P = 369.922359 Days, E = 199.801378 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.9	12.1	11.6	8.86	5.33	3.10	1.54	22.2	25.0	0.44	3.23	18.8	1.06	0.22	2.60



Stellar Parameters For KIC 008482263

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6018^{+190}_{-211}	$4.485^{+0.052}_{-0.208}$	$-0.040^{+0.250}_{-0.300}$	$0.975^{+0.302}_{-0.101}$	$1.058^{+0.134}_{-0.147}$	$1.608^{+0.351}_{-0.886}$
	+3%/-4%	+1%/-5%	+625%/-750%	+31%/-10%	+13%/-14%	+22%/-55%
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 008482263-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-734 ± 46	$3.59^{+0.95}_{-0.86}$	370^{+27}_{-19}	5541^{+715}_{-475}	32275^{+23583}_{-12047}
Alt.	-544 ± 45	$4.46^{+1.04}_{-0.96}$	369^{+27}_{-19}	4717^{+445}_{-355}	15664^{+9181}_{-5384}

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 $A_{obs} \gg 1.0$

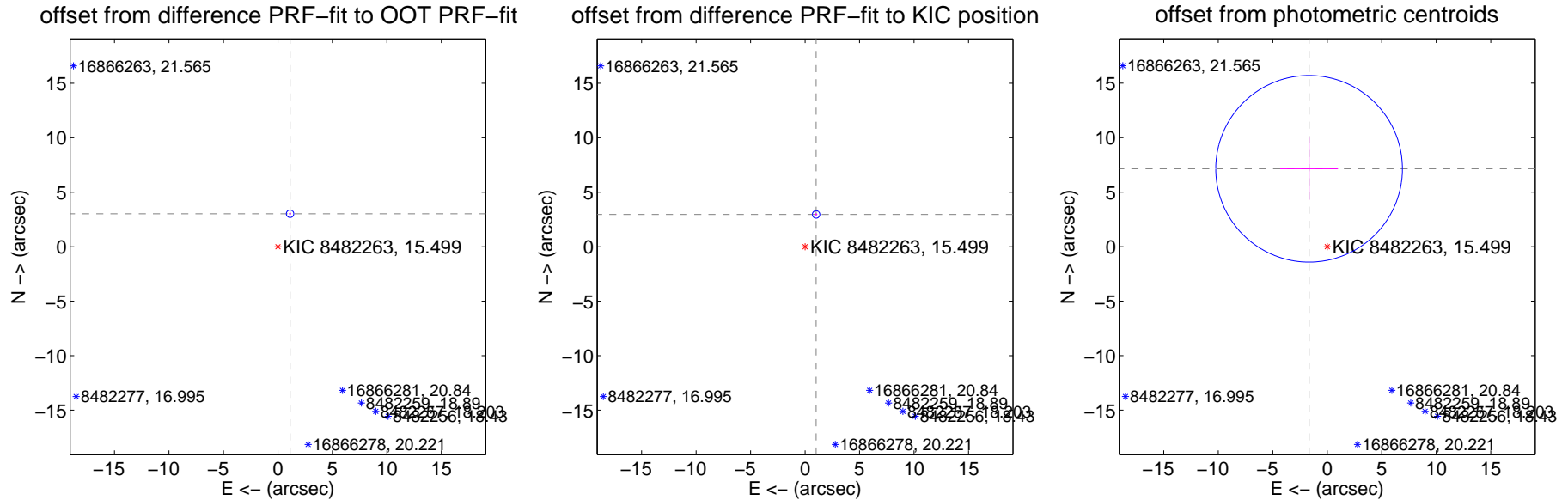
DV Centroid Data

Supplemental centroid analysis for 008482263-03. Kepler magnitude: 15.50. Transit SNR 7.15

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.223 ± 0.114	28.20	-1.115 ± 0.112	3.024 ± 0.115
PRF-fit source offset from KIC position	3.128 ± 0.114	27.37	-1.013 ± 0.112	2.960 ± 0.115
photometric centroid source offset	7.34 ± 2.85	2.57	1.67 ± 2.66	7.14 ± 2.86

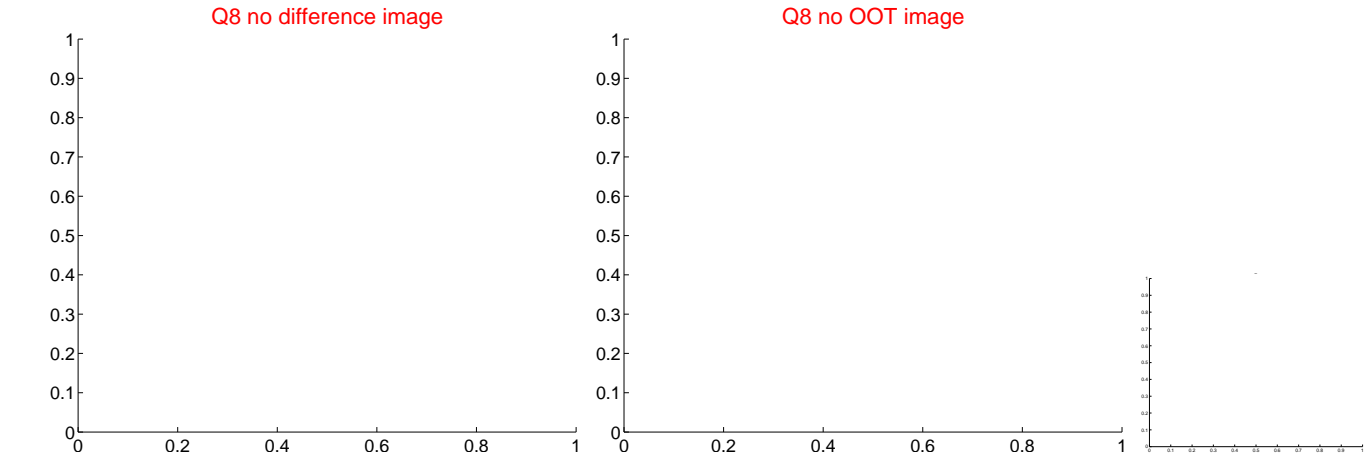
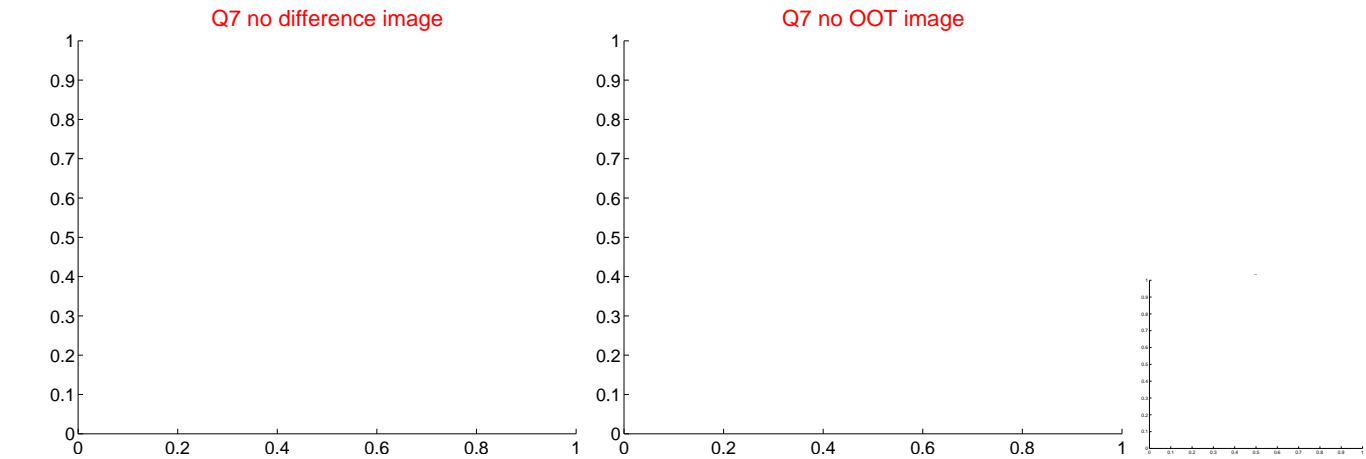
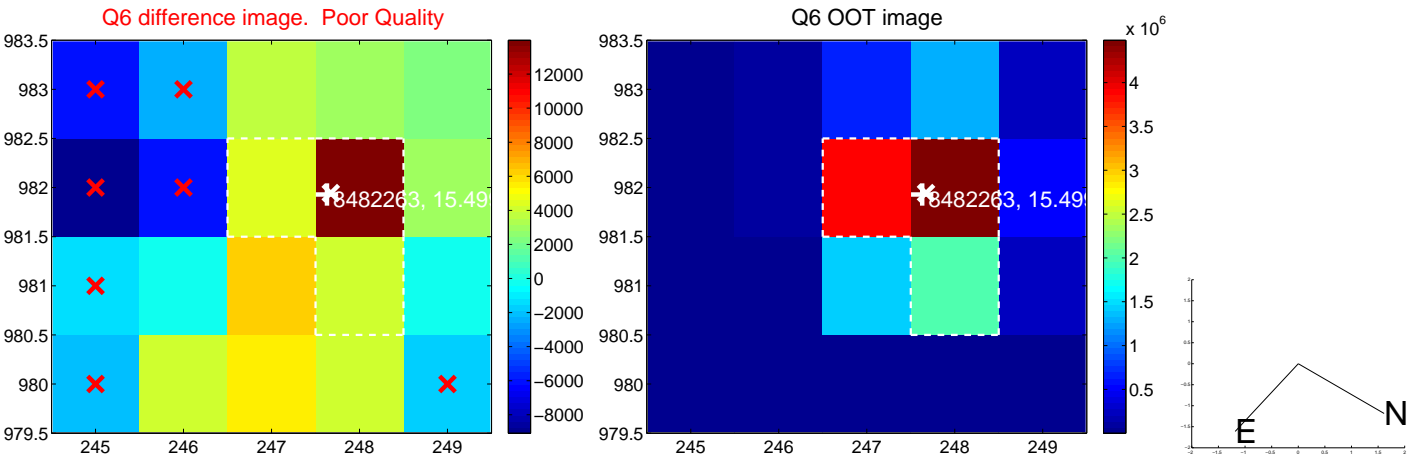
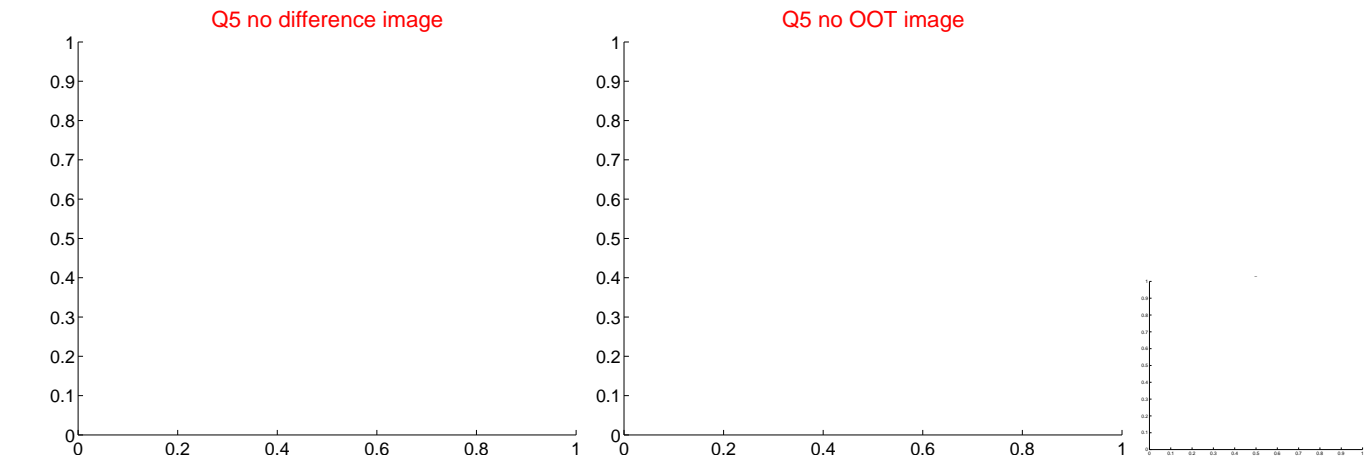


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

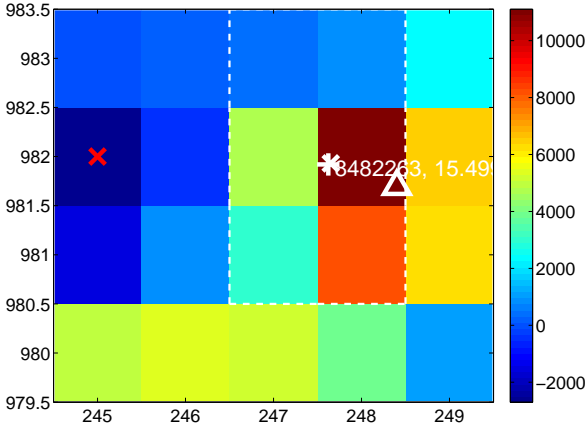
Q13 no difference image



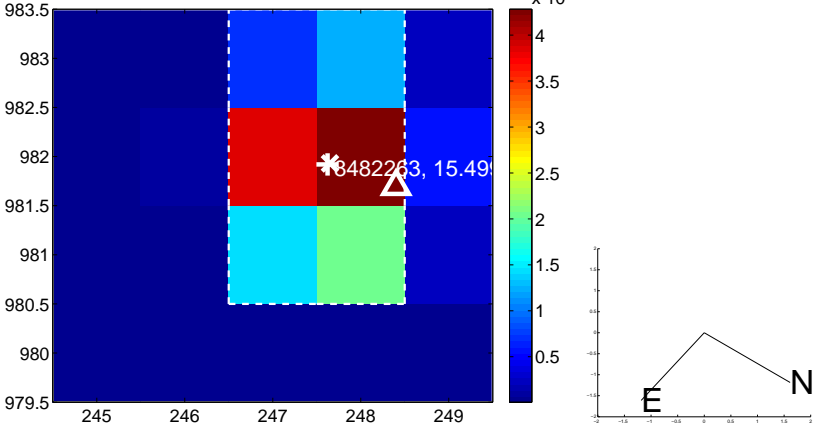
Q13 no OOT image



Q14 difference image



Q14 OOT image



Q15 no difference image



Q15 no OOT image



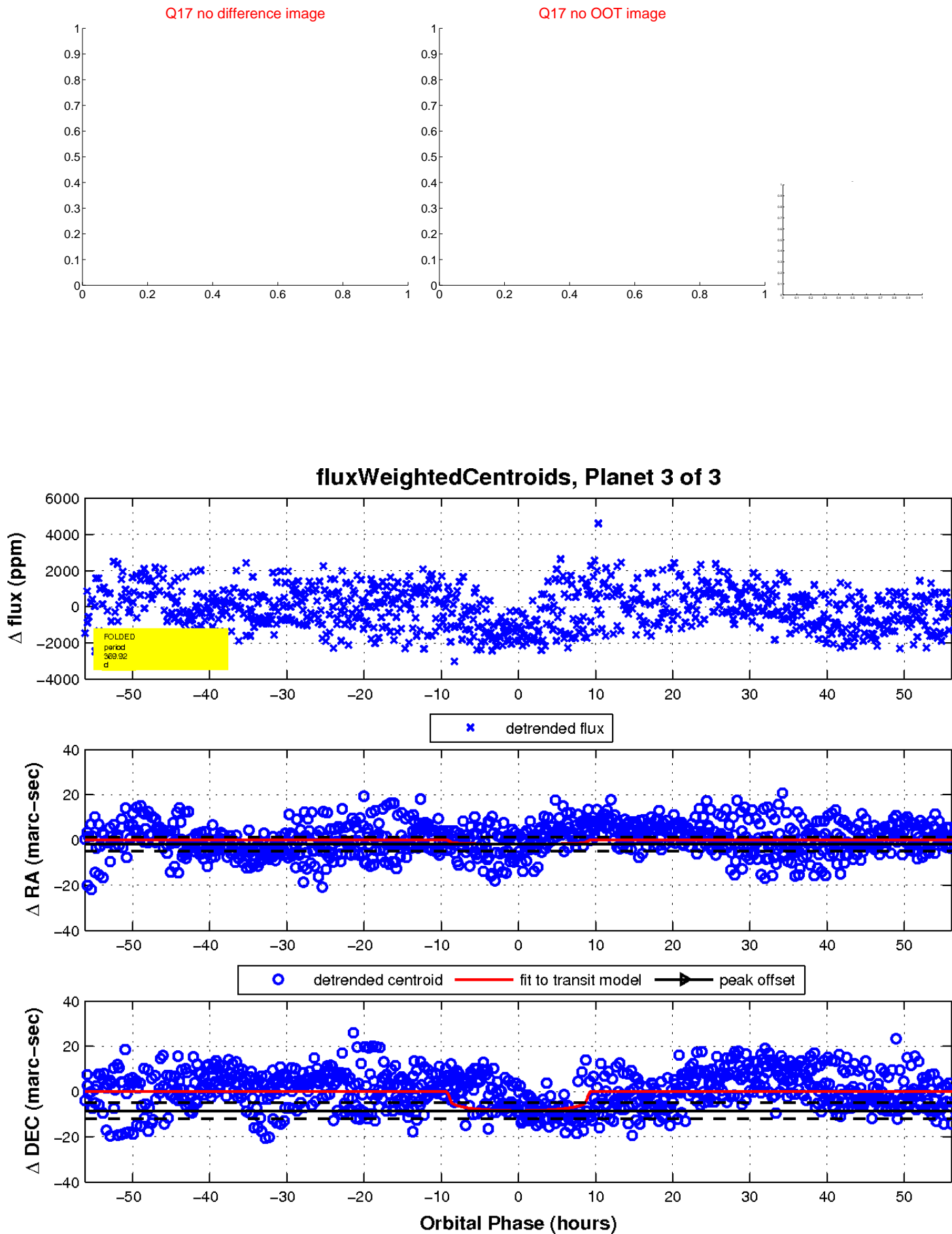
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

