

KIC 006608436

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})
006608436-01	OBS	No	258.482480	312.195418	1795.8	7.827	14.8	7.1	0.76	5295	6.20	0.80
006608436-02	OBS	No	335.738702	345.781516	2759.6	12.063	15.5	11.2	0.76	5295	3.90	0.57
006608436-03	OBS	No	358.451805	192.177670	1640.7	11.628	14.0	7.5	0.76	5295	3.01	0.52
006608436-05	OBS	No	358.820005	460.607701	1860.1	4.946	12.5	9.4	0.76	5295	3.31	0.52
006608436-06	OBS	No	365.352053	380.963894	994.5	7.500	13.5	-1.0	0.76	5295	2.34	0.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006608436-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006608436-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS
006608436-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

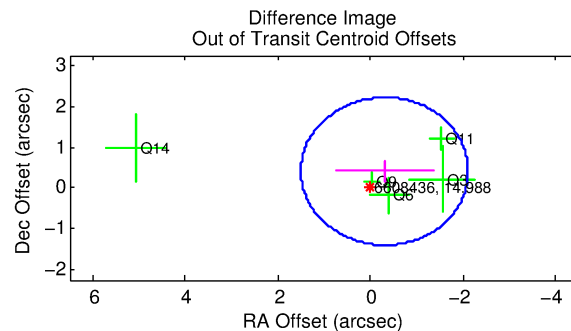
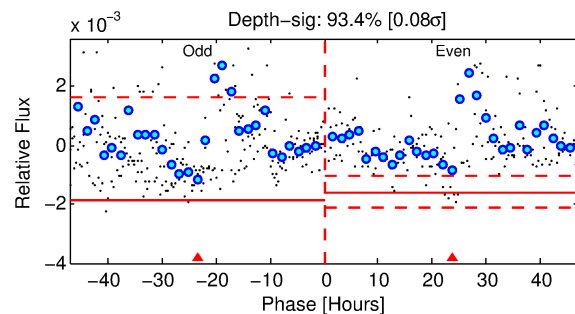
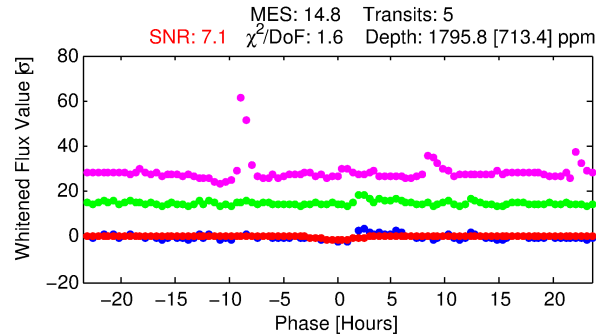
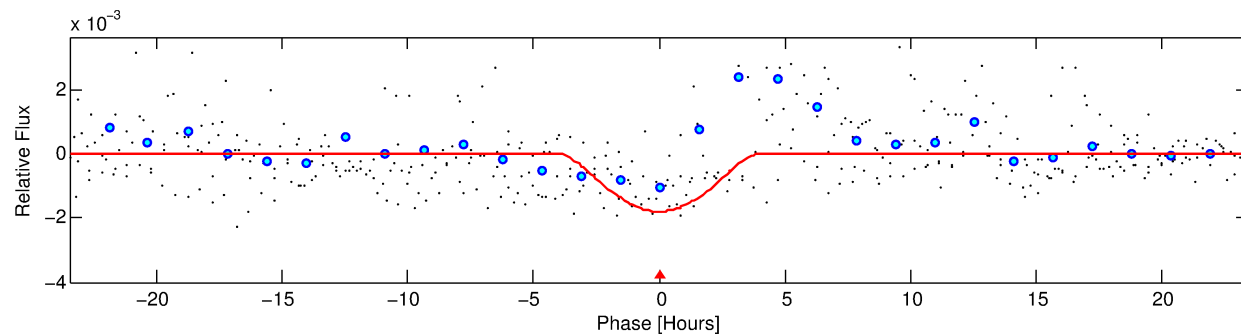
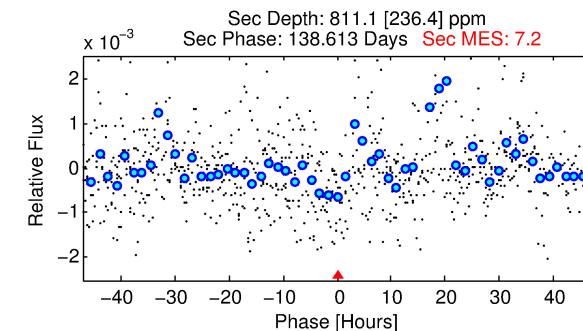
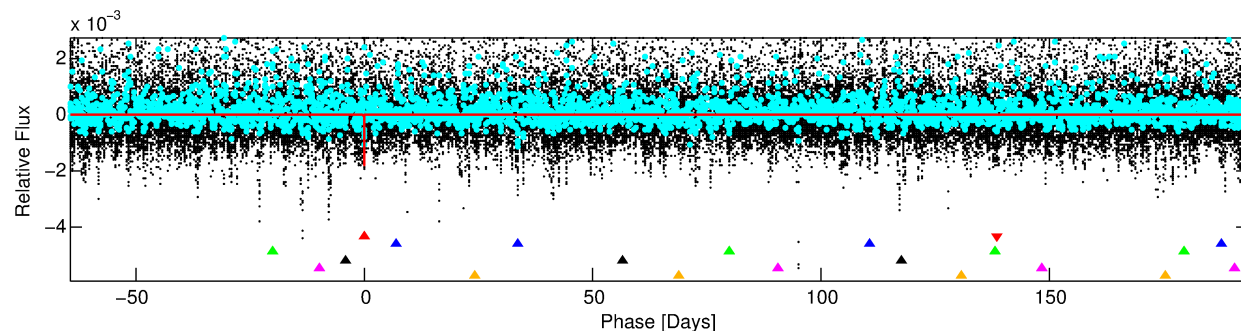
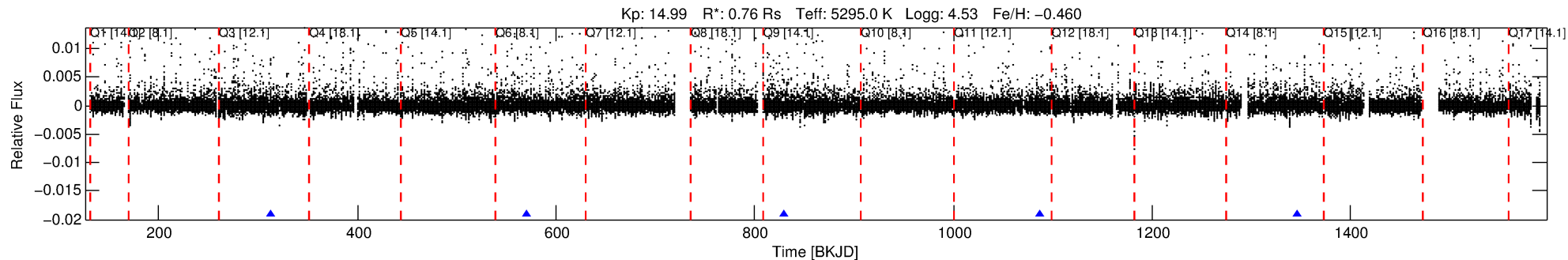
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006608436-01

No Significant Match Found

DV One-Page Summary

KIC: 6608436 Candidate: 1 of 6 Period: 258.482 d



DV Fit Results:

Period = 258.48248 [0.00898] d
Epoch = 312.1954 [0.0234] BKJD
Rp/R* = 0.0752 [0.2867]
a/R* = 99.88 [81.51]
b = 1.00 [0.42]
Seff = 0.80 [0.17]
Teq = 241 [13] K
Rp = 6.20 [23.66] Re
a = 0.7074 [0.0814] AU
Ag = 5806.35 [44328.31] [0.13σ]
Teff = 3259 [6220] K [0.49σ]

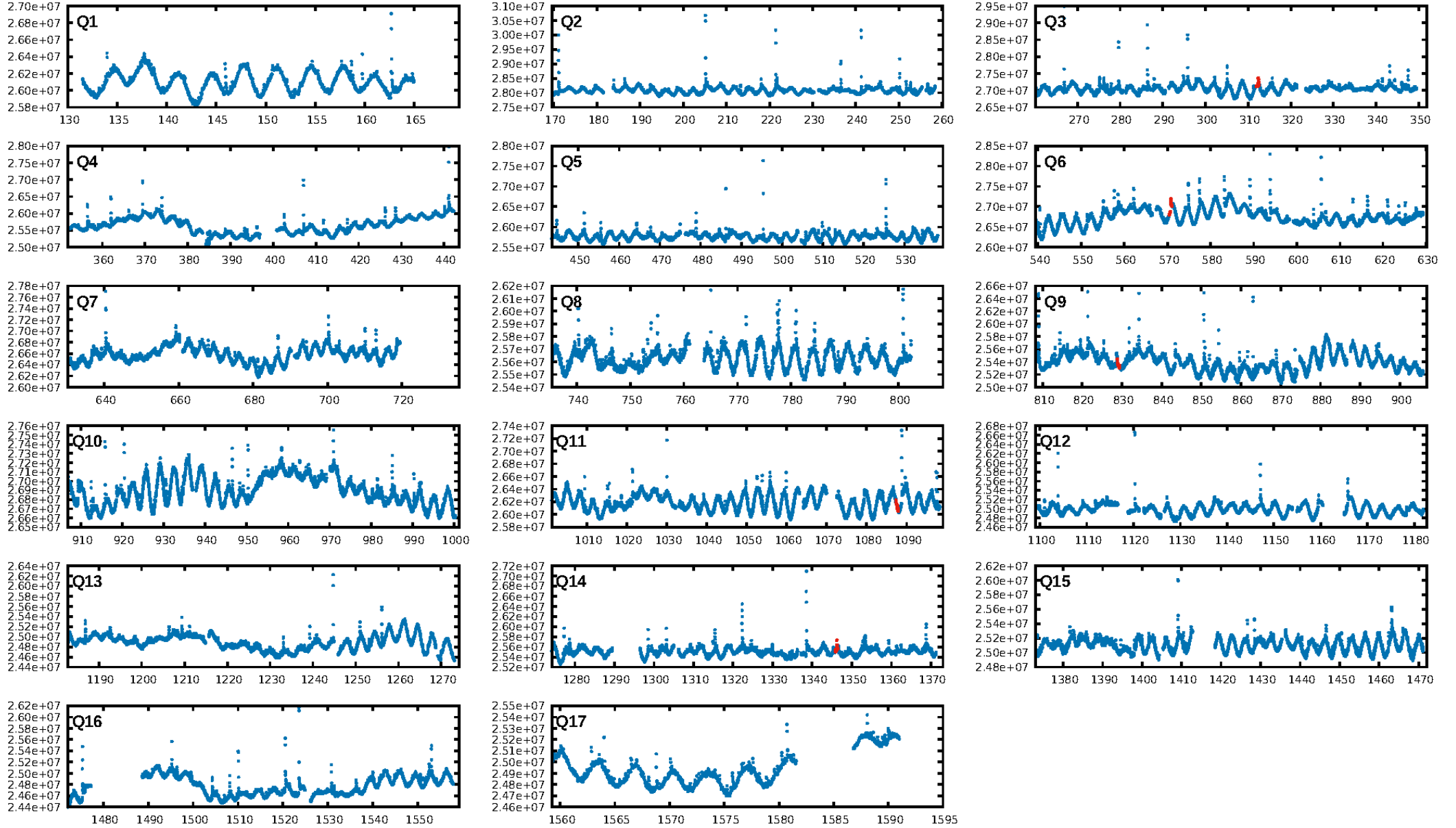
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [128.94σ]
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 85.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 1.47
Centroid-sig: 6.9%
Centroid-so: 0.734 arcsec [1.63σ]
OotOffset-rm: 0.512 arcsec [0.85σ]
KicOffset-rm: 0.540 arcsec [0.96σ]
OotOffset-st: 2/2/0/1 [5]
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DiffImageQuality-fgm: 0.60 [3/5]
DiffImageOverlap-fno: 1.00 [5/5]

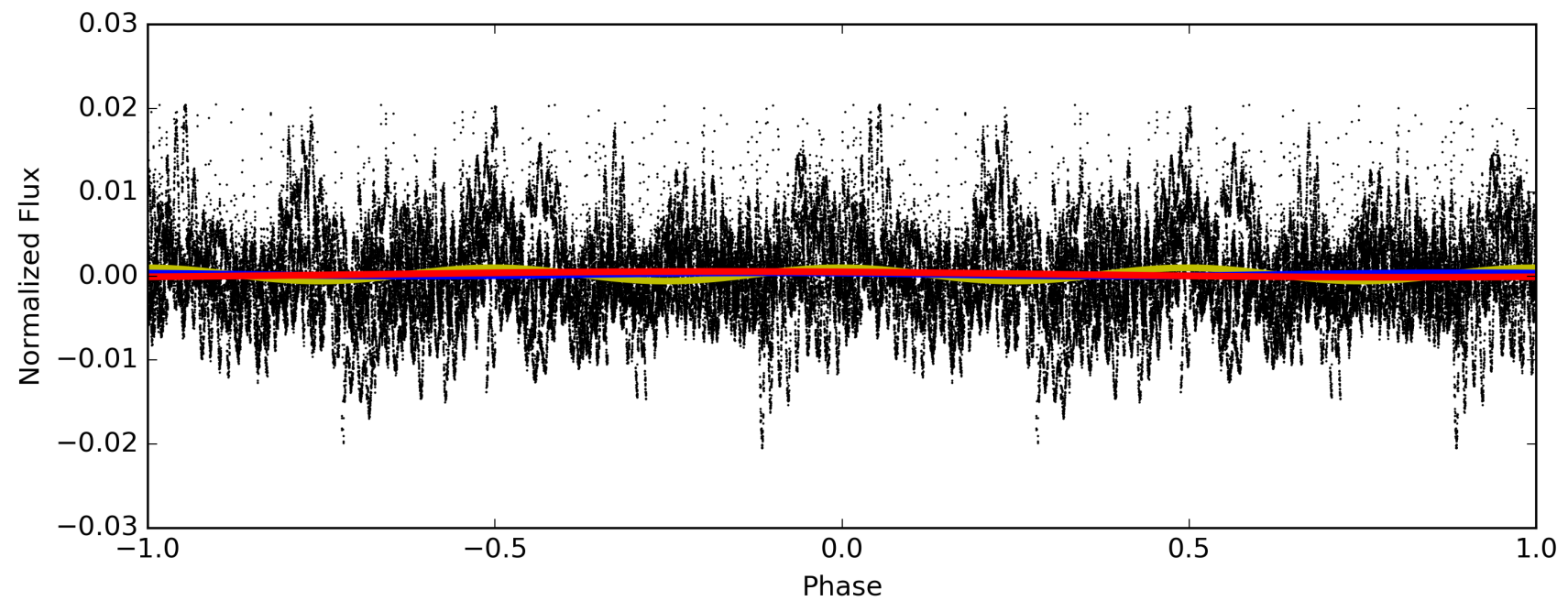
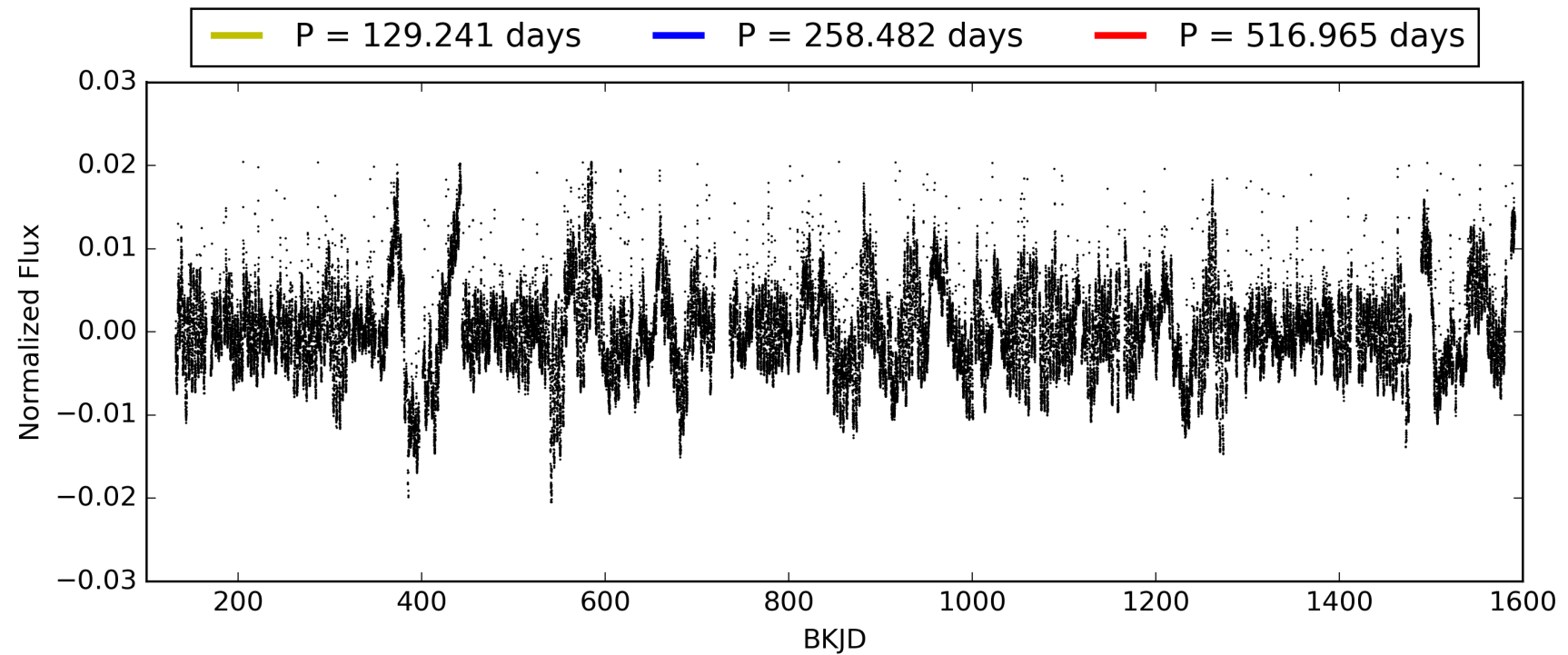
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:10:10 Z

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

TCE 006608436-01, PDC Light Curves

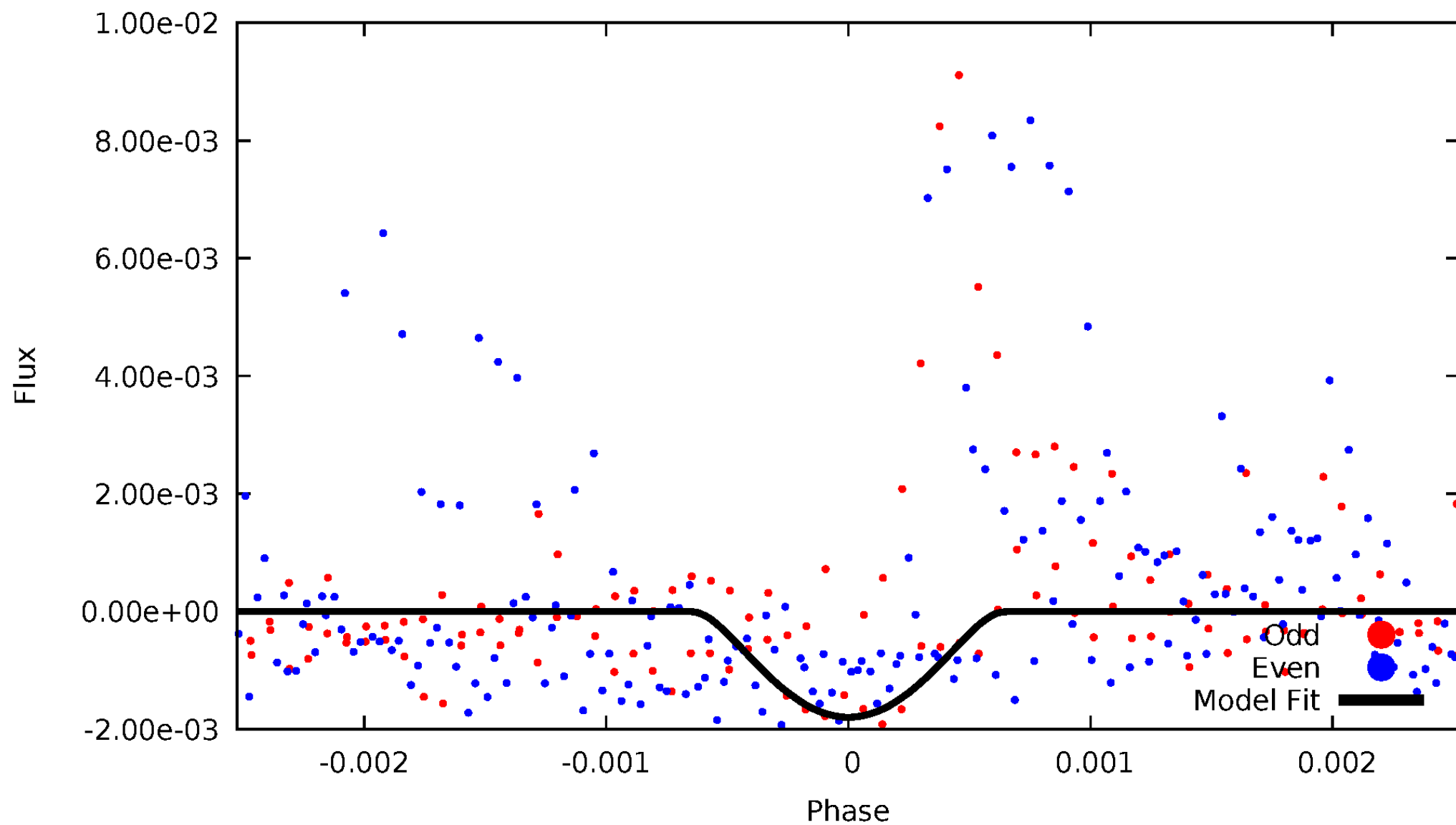


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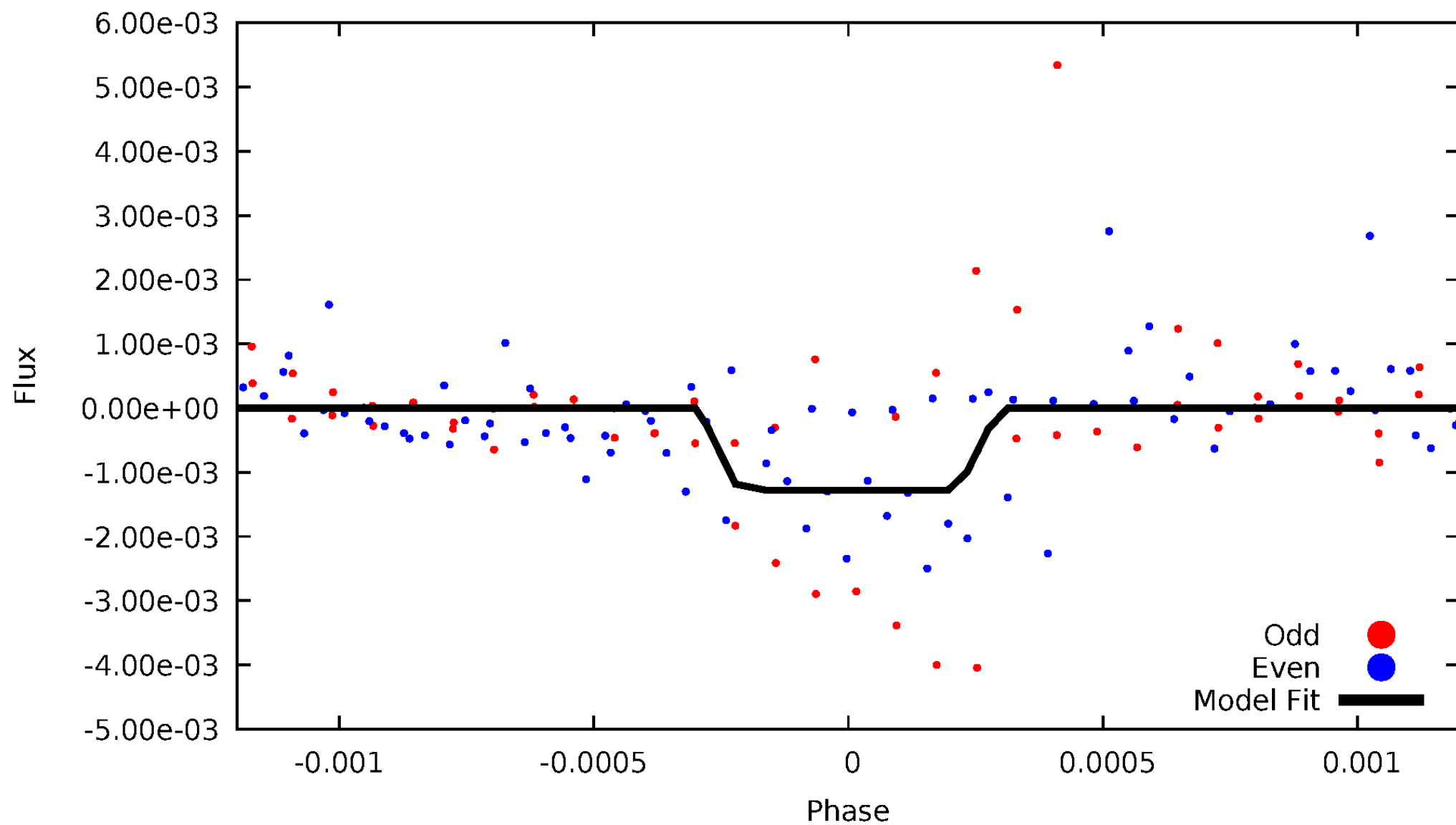
DV Odd/Even

TCE 006608436-01



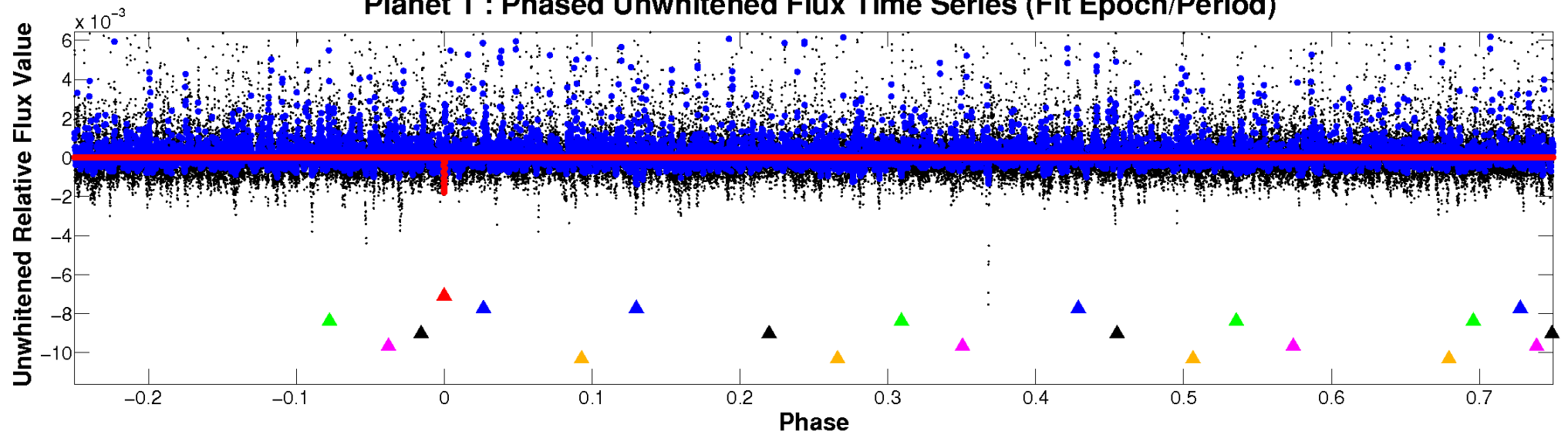
ALT Odd/Even

TCE 006608436-01

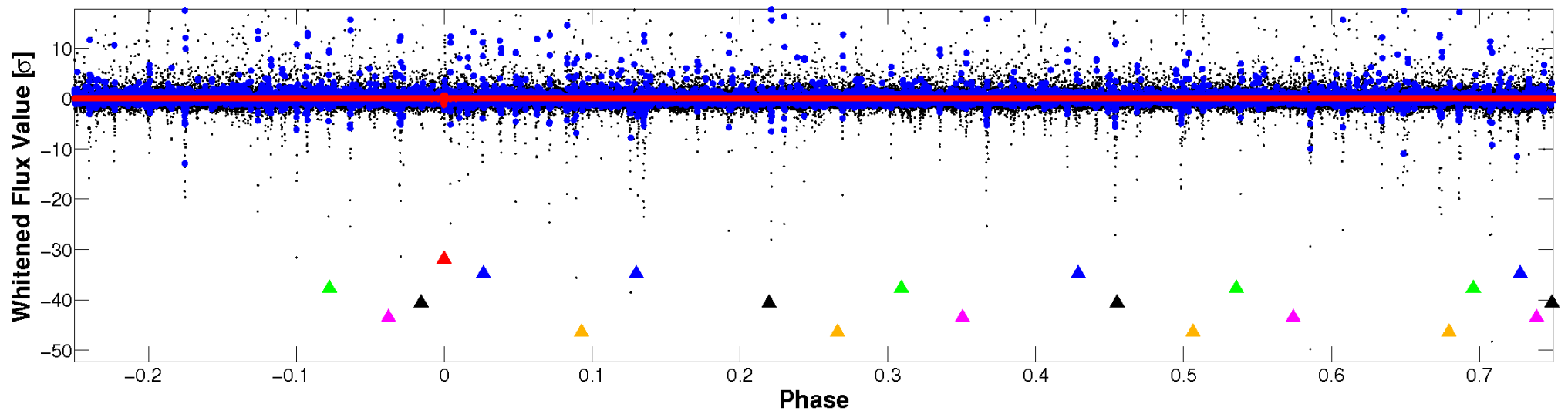


Non-Whitened Vs. Whitened Light Curve

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

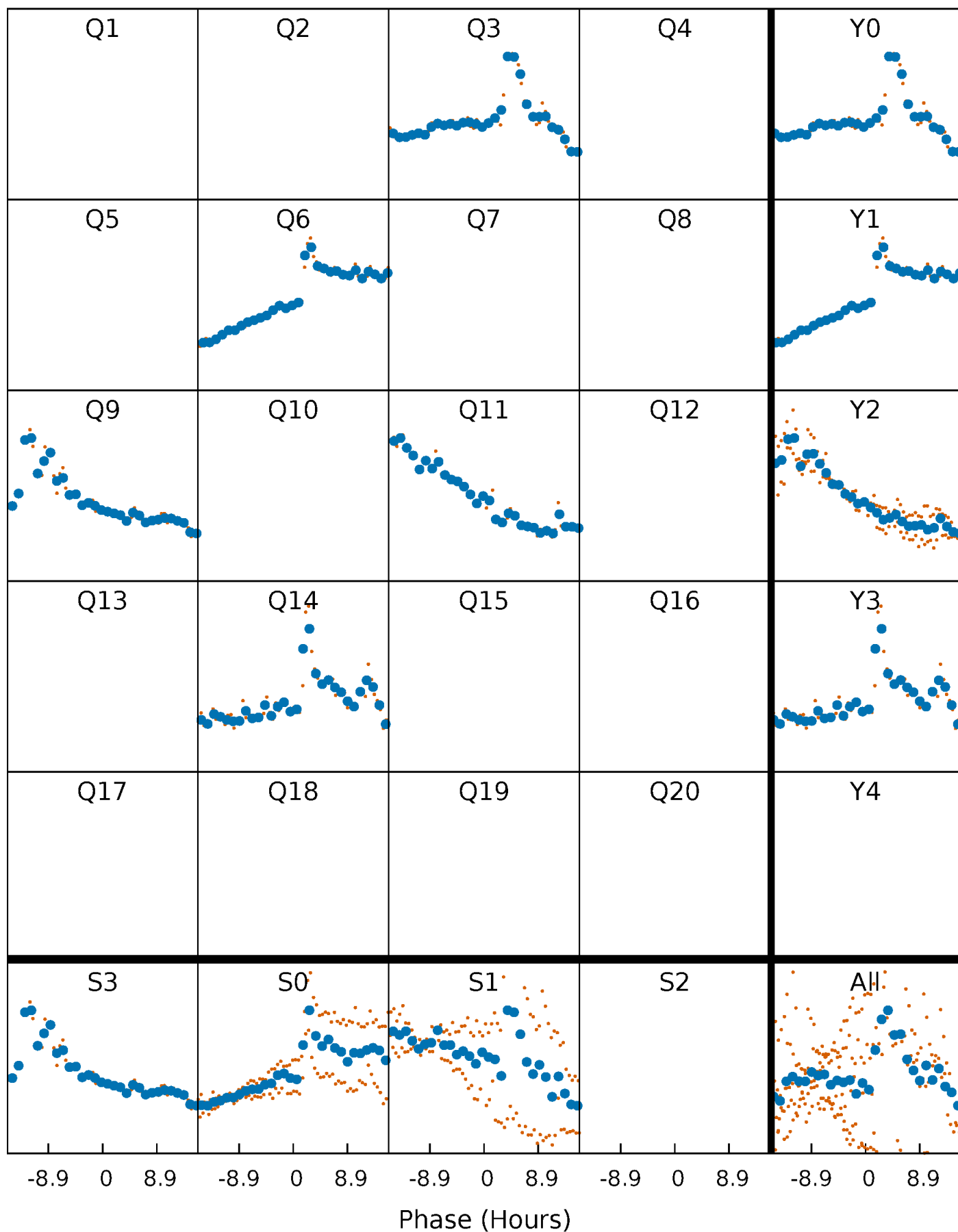


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



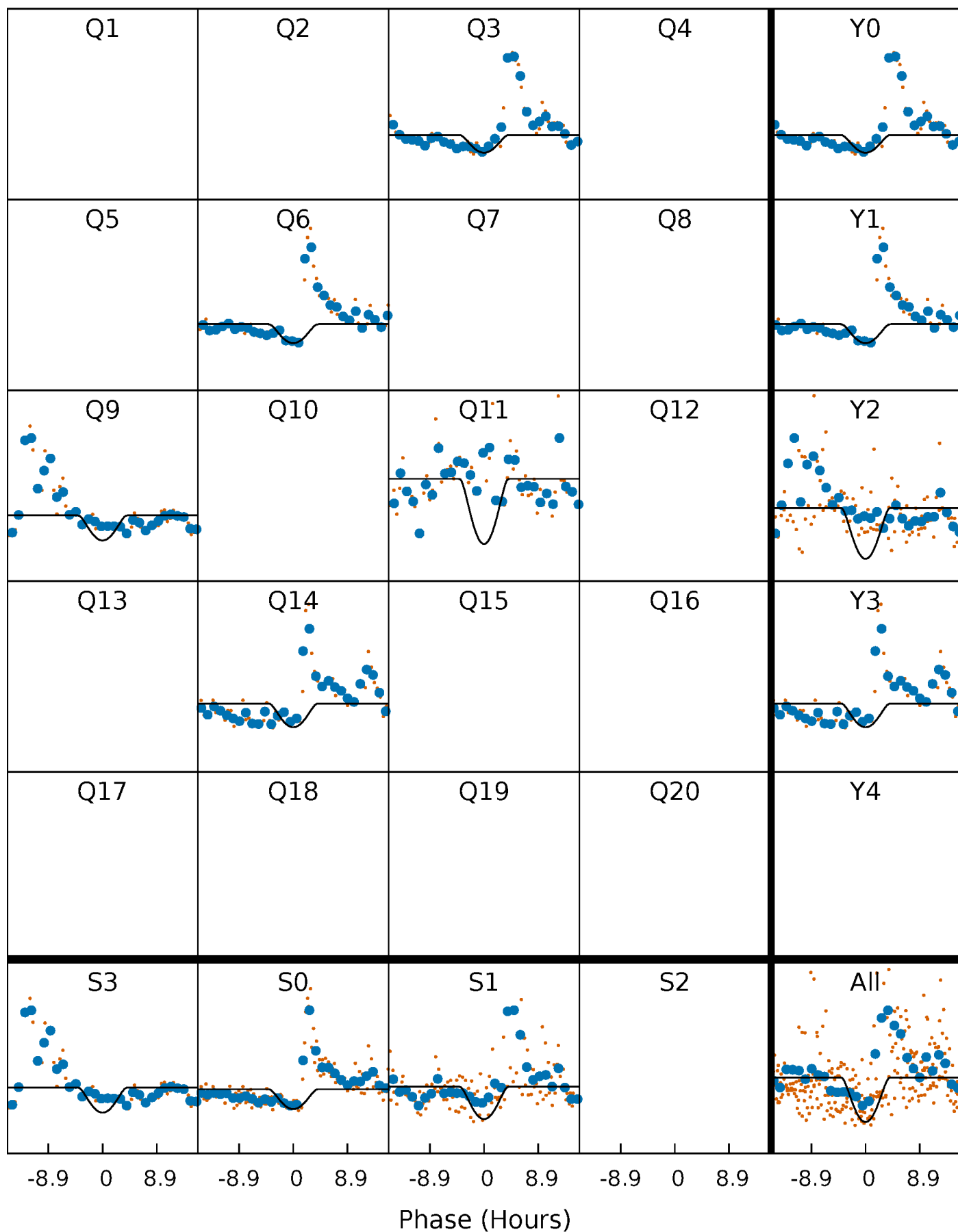
PDC Quarter-Phased Transit Curves

TCE 006608436-01 P=258.482480 Days $T_0=312.195418$ (BKJD)



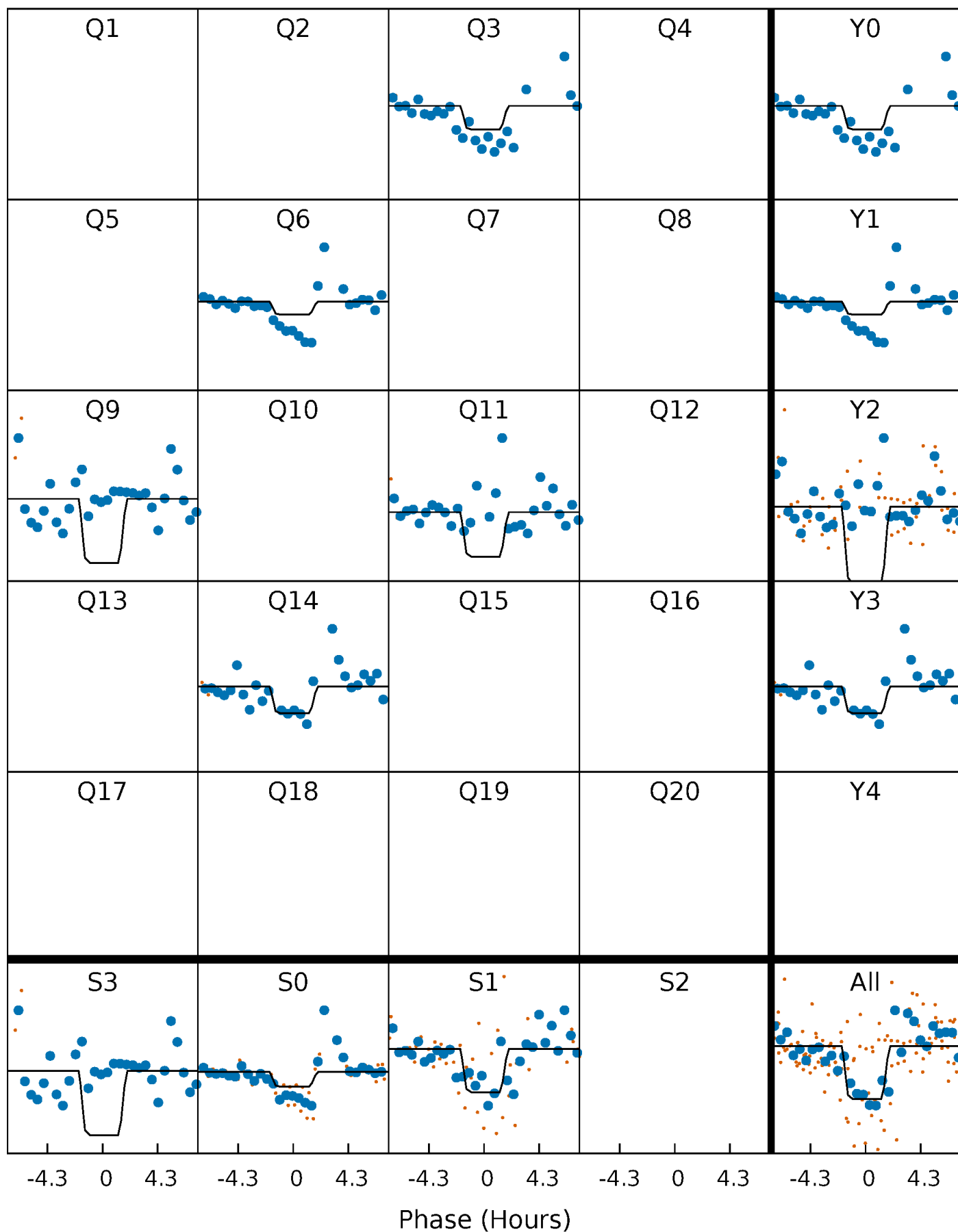
DV Quarter-Phased Transit Curves

TCE 006608436-01 P=258.482480 Days $T_0=312.195418$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

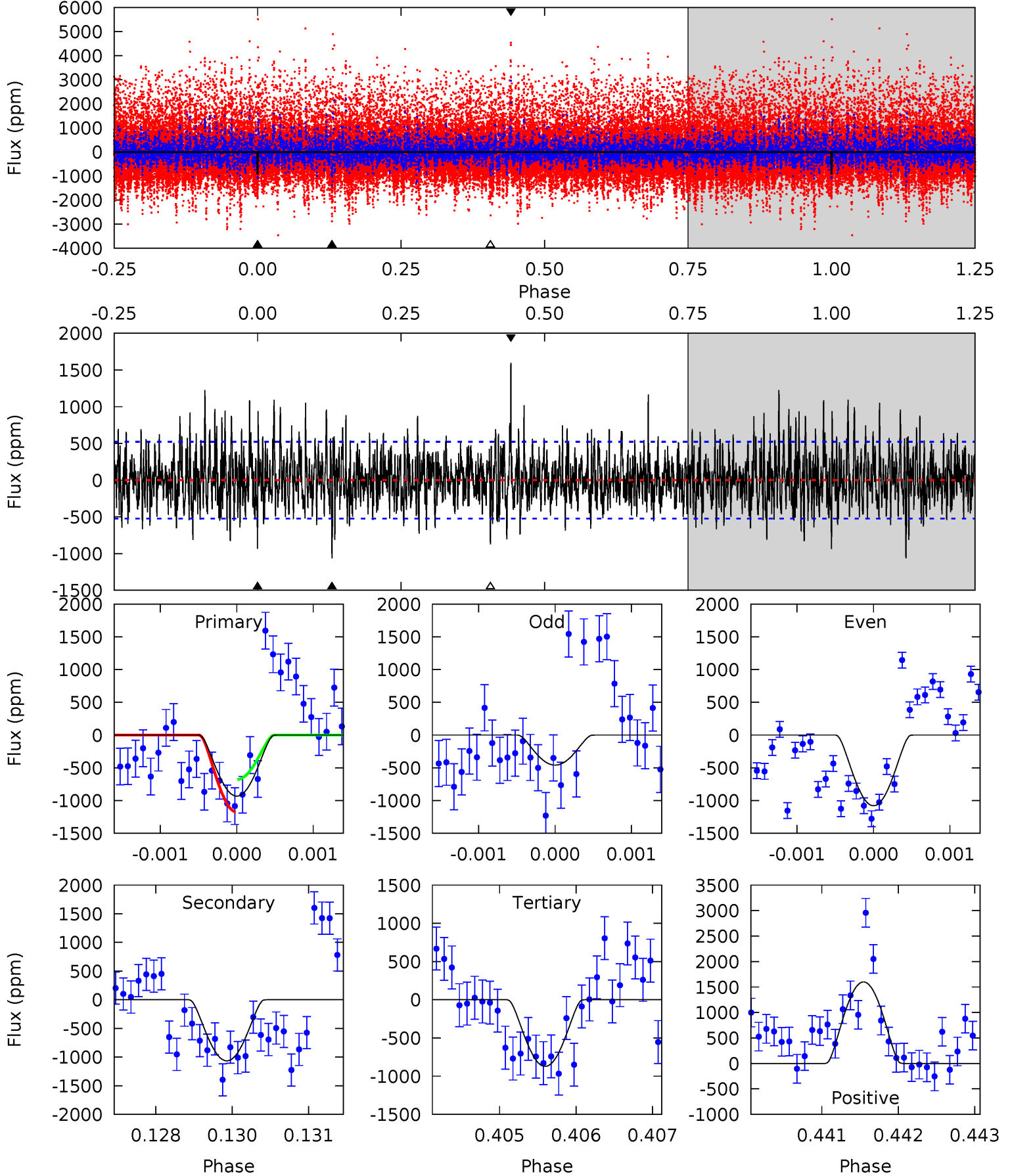
TCE 006608436-01 P=258.483083 Days $T_0=312.186237$ (BKJD)



DV Model-Shift Uniqueness Test

006608436-01, P = 258.482480 Days, E = 53.712938 Days

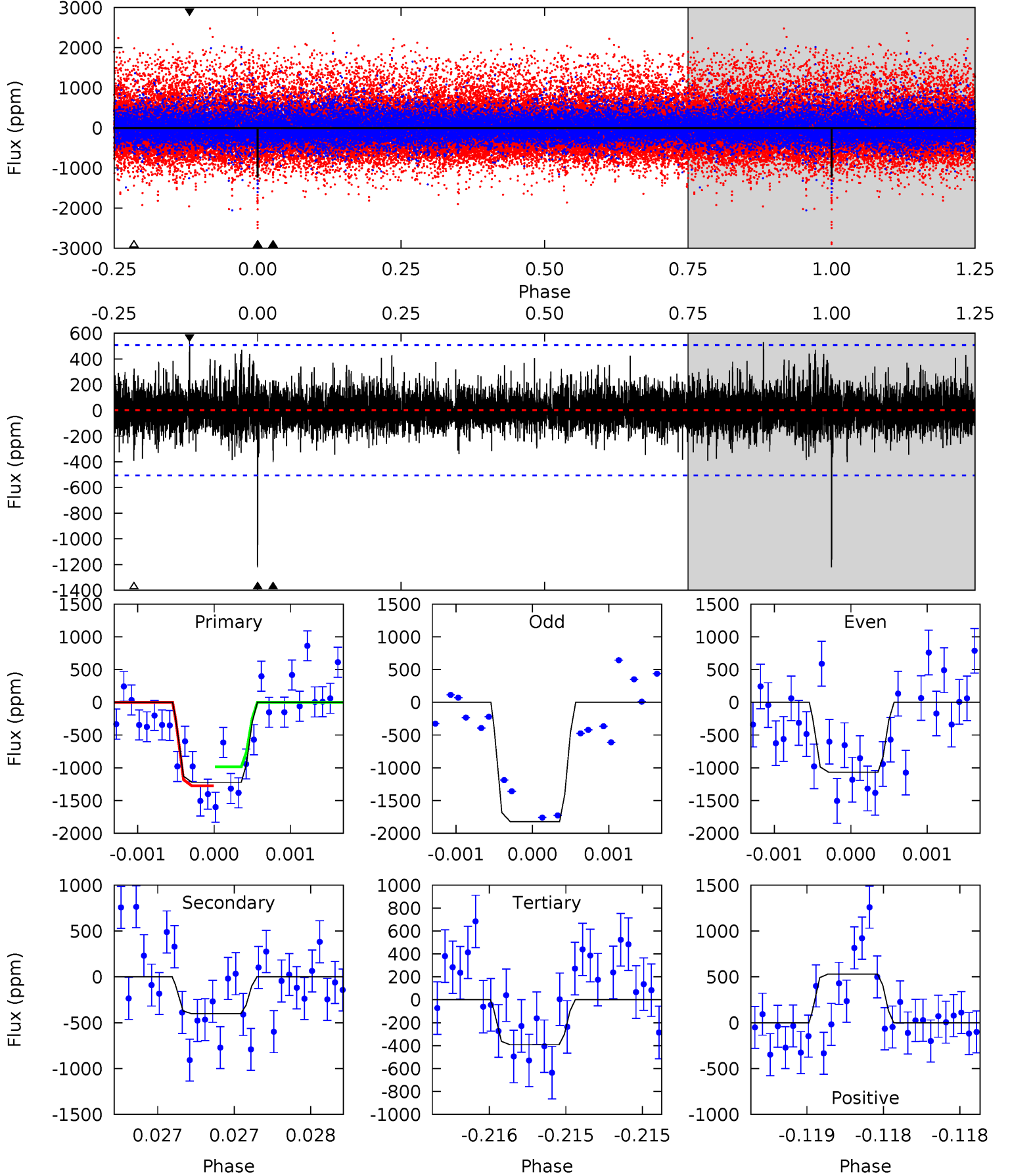
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.63	11.0	9.01	16.5	5.40	3.21	2.94	0.63	-6.89	2.00	-5.52	2.95	3.72	0.60	2.59



Alt Model-Shift Uniqueness Test

006608436-01, $P = 258.483083$ Days, $E = 53.703154$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.4	4.40	4.29	5.82	5.56	3.45	1.15	9.09	7.57	0.11	-1.42	4.09	0.93	0.30	1.58



Stellar Parameters For KIC 006608436

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5295^{+158}_{-142}	$4.530^{+0.099}_{-0.072}$	$-0.460^{+0.300}_{-0.300}$	$0.756^{+0.098}_{-0.088}$	$0.707^{+0.103}_{-0.044}$	$2.299^{+0.937}_{-0.561}$
	+3%/-3%	+2%/-2%	+65%/-65%	+13%/-12%	+15%/-6%	+41%/-24%
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 006608436-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1066 ± 97	$19.08^{+18.28}_{-13.04}$	336^{+15}_{-14}	2748^{+1118}_{-428}	828^{+7284}_{-616}
Alt.	-401 ± 91	$17.59^{+17.29}_{-12.13}$	337^{+14}_{-15}	2463^{+927}_{-369}	355^{+3636}_{-268}

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 $A_{obs} \gg 1.0$

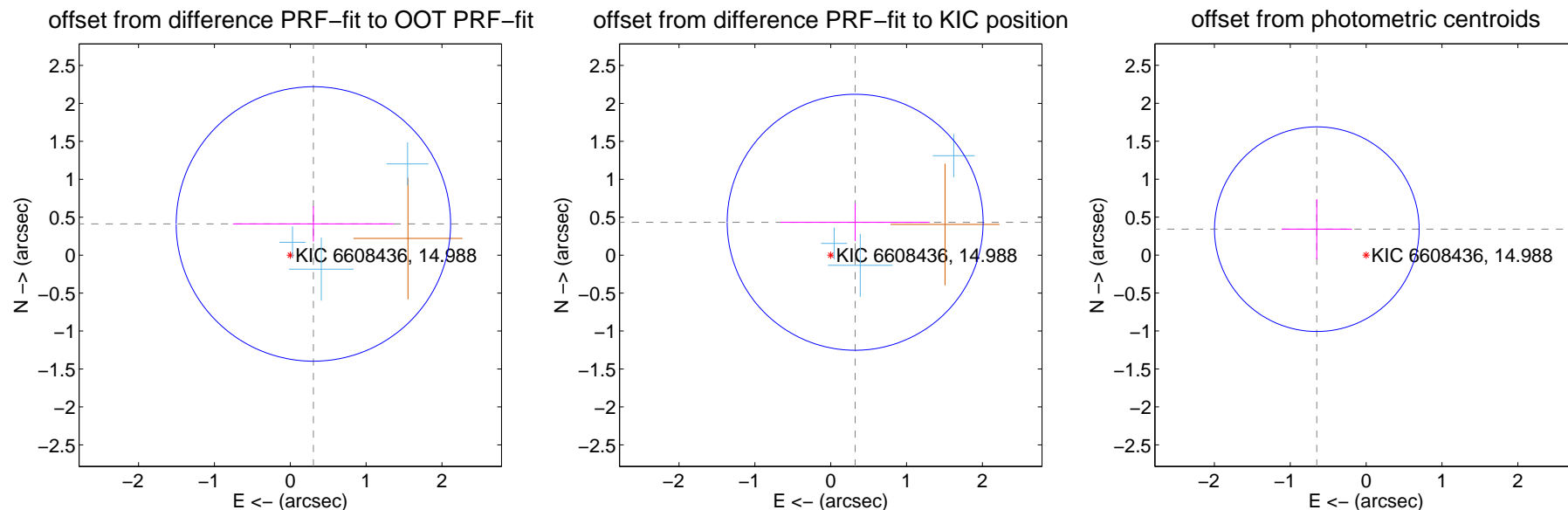
DV Centroid Data

Supplemental centroid analysis for 006608436-01. Kepler magnitude: 14.99. Transit SNR 7.08

There are 3 quarters with good PRF difference image offsets

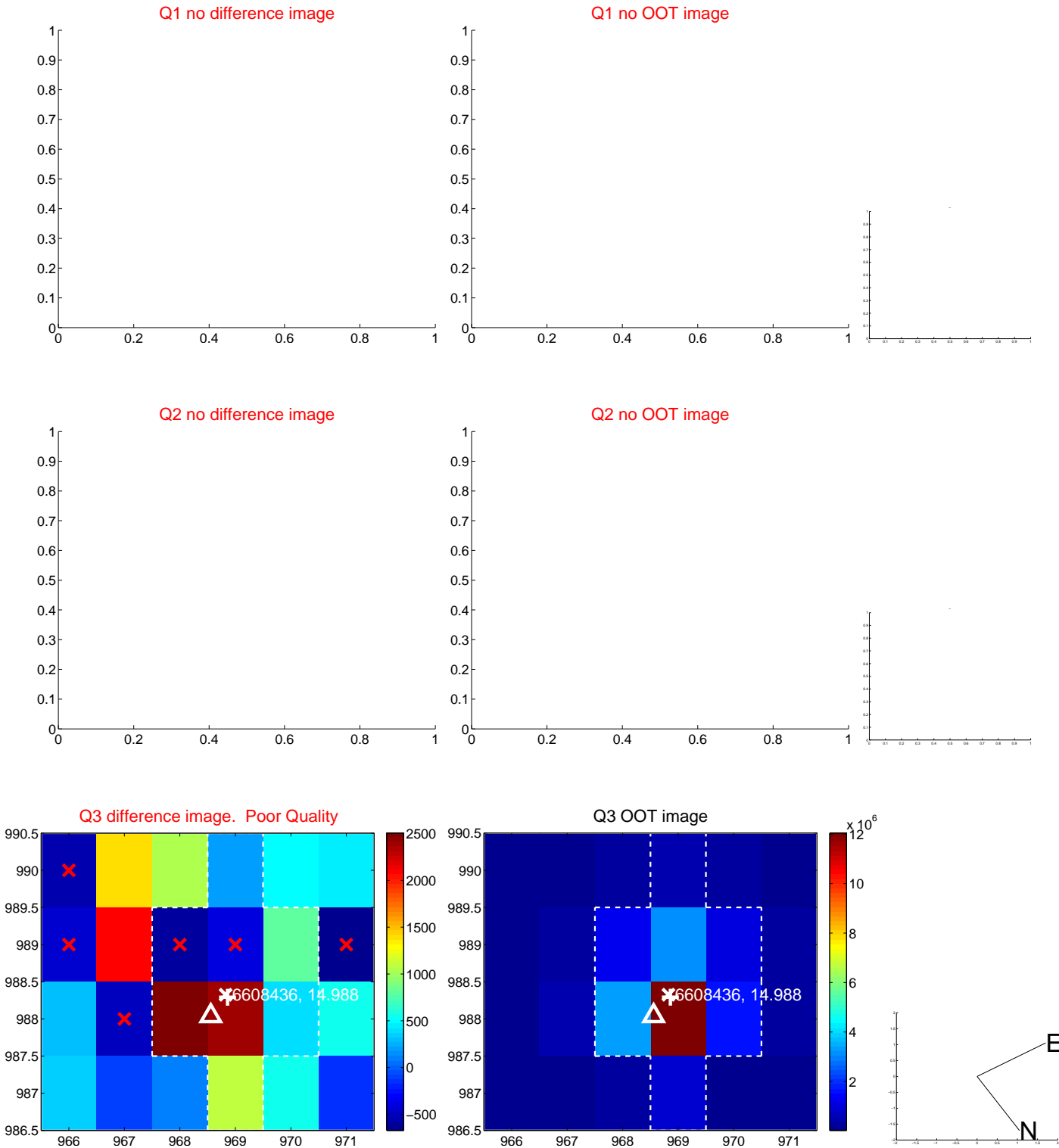
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.512 ± 0.603	0.85	-0.305 ± 1.061	0.411 ± 0.233
PRF-fit source offset from KIC position	0.540 ± 0.562	0.96	-0.322 ± 0.982	0.433 ± 0.248
photometric centroid source offset	0.73 ± 0.45	1.63	0.65 ± 0.46	0.34 ± 0.40



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

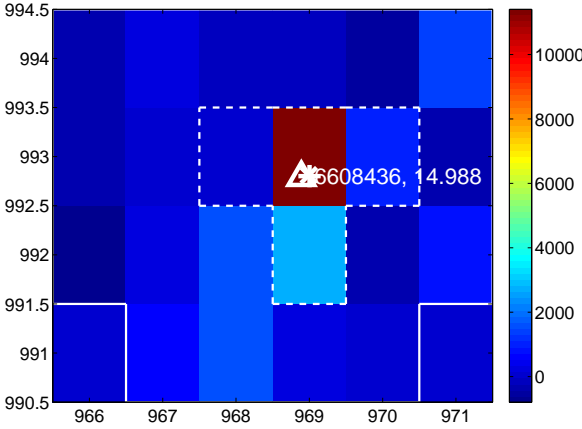
Q5 no difference image



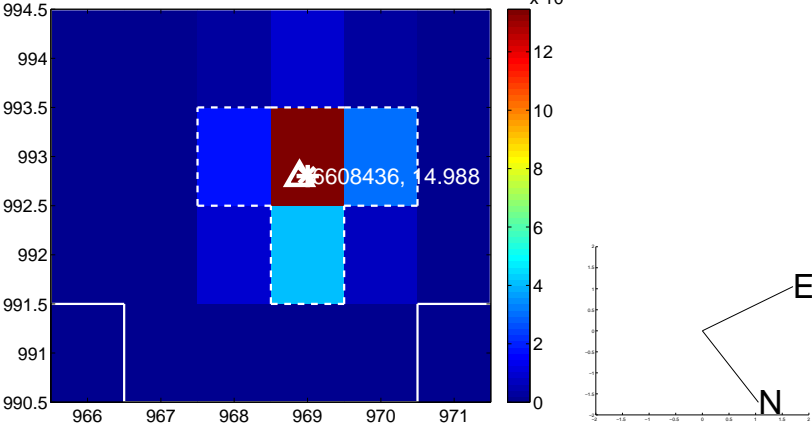
Q5 no OOT image



Q6 difference image



Q6 OOT image



Q7 no difference image



Q7 no OOT image



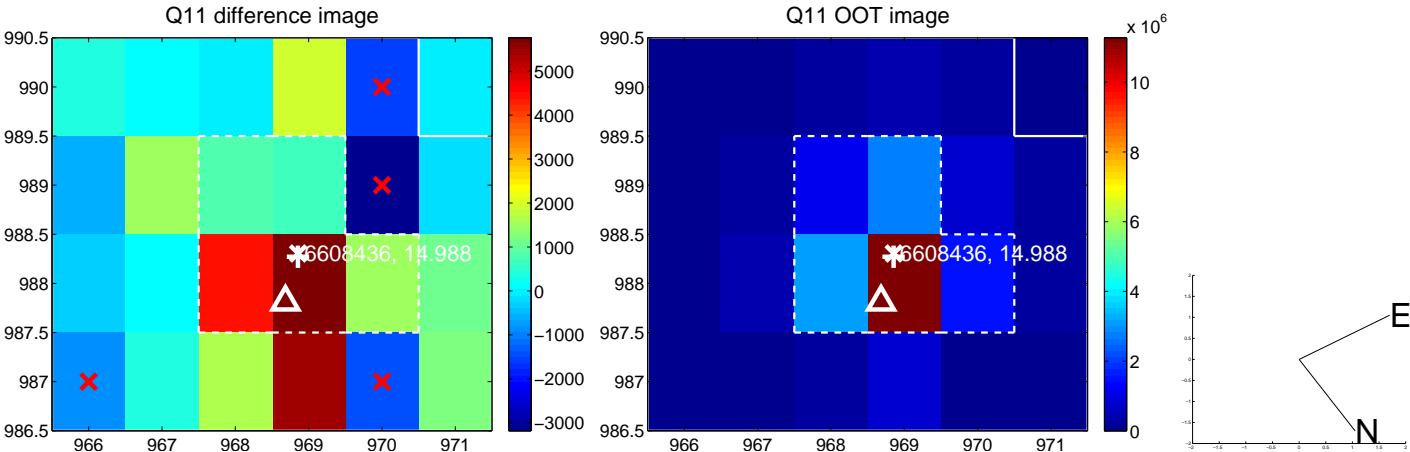
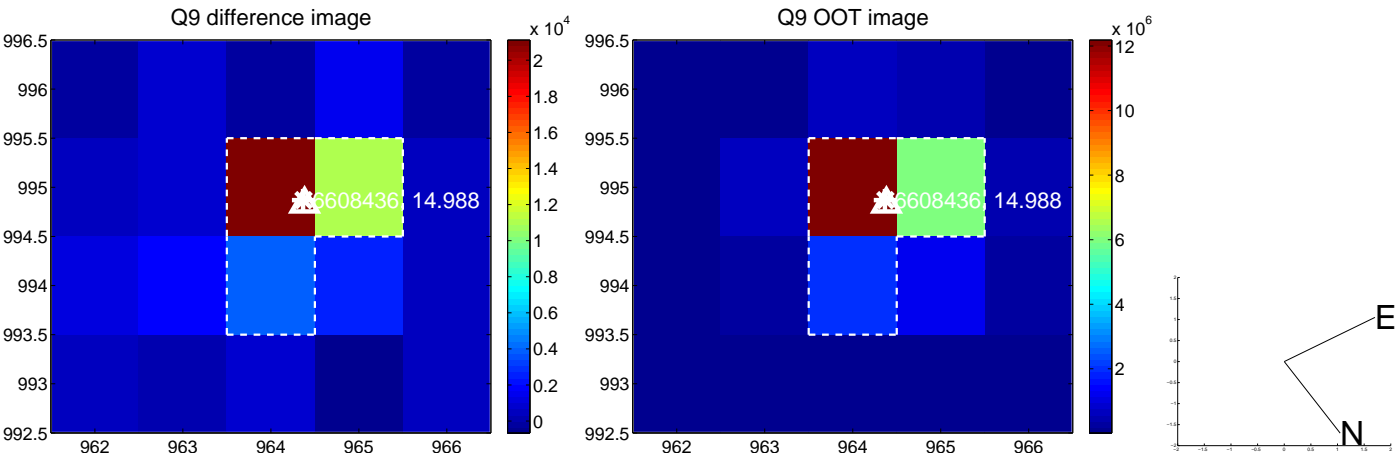
Q8 no difference image



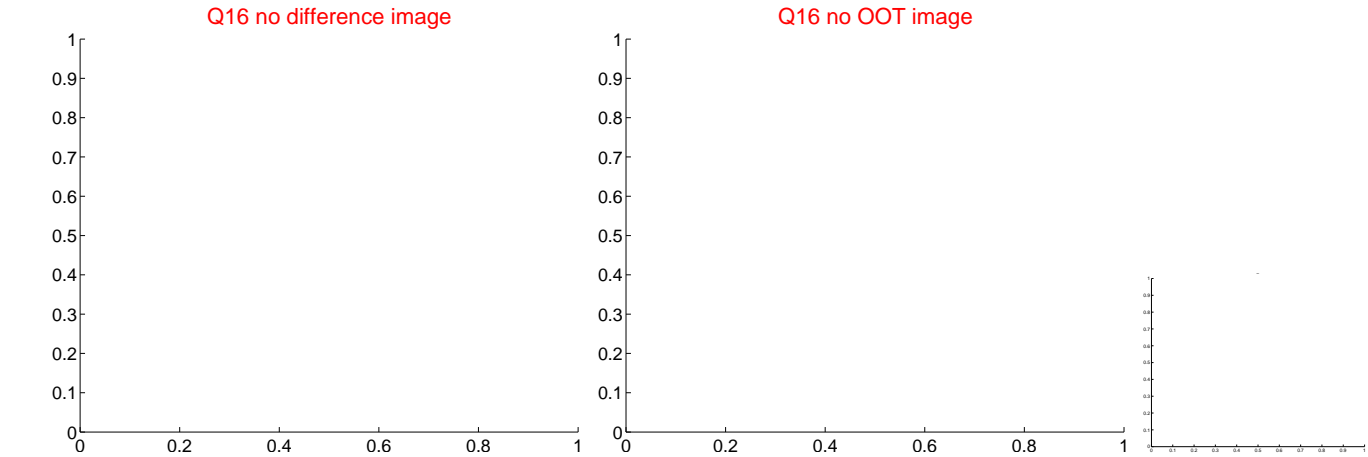
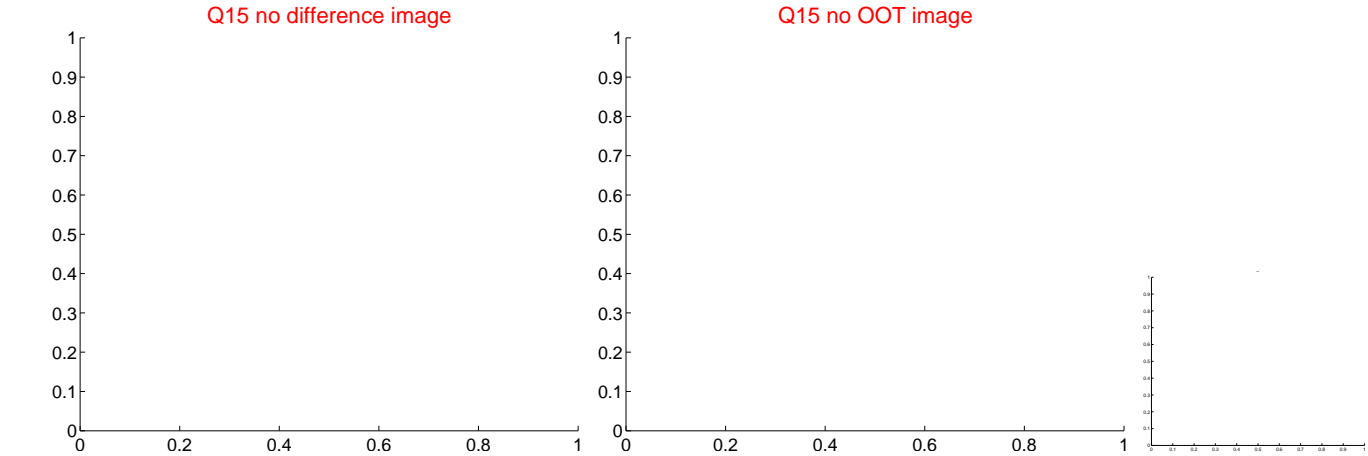
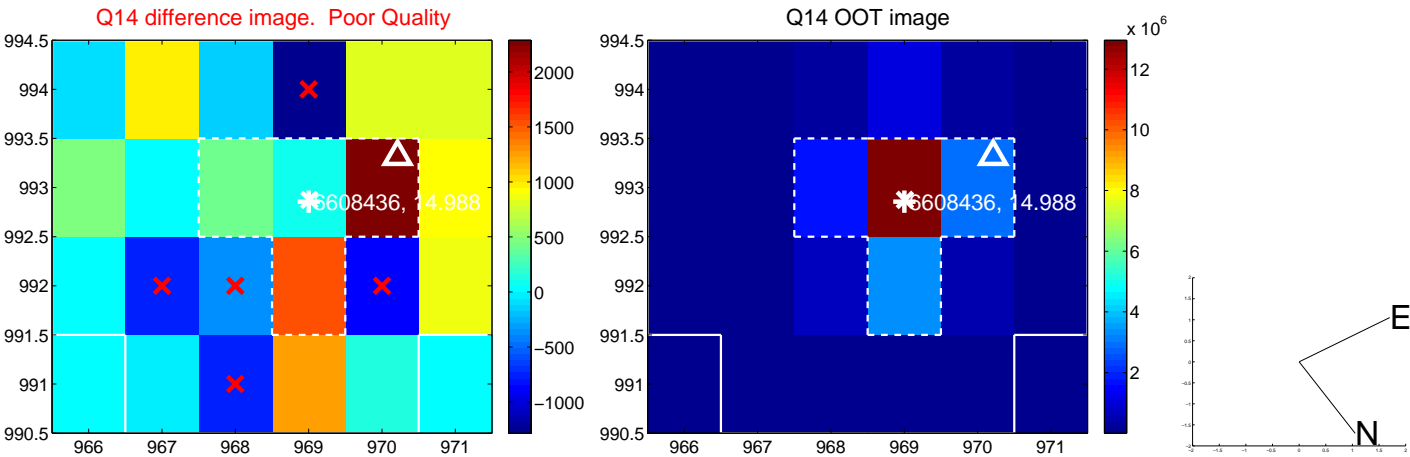
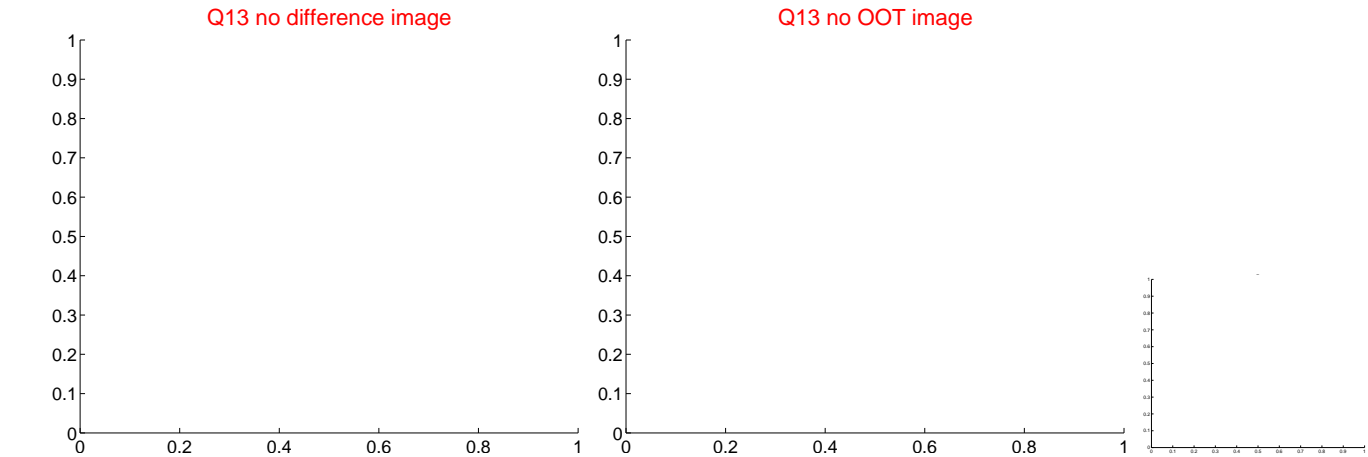
Q8 no OOT image



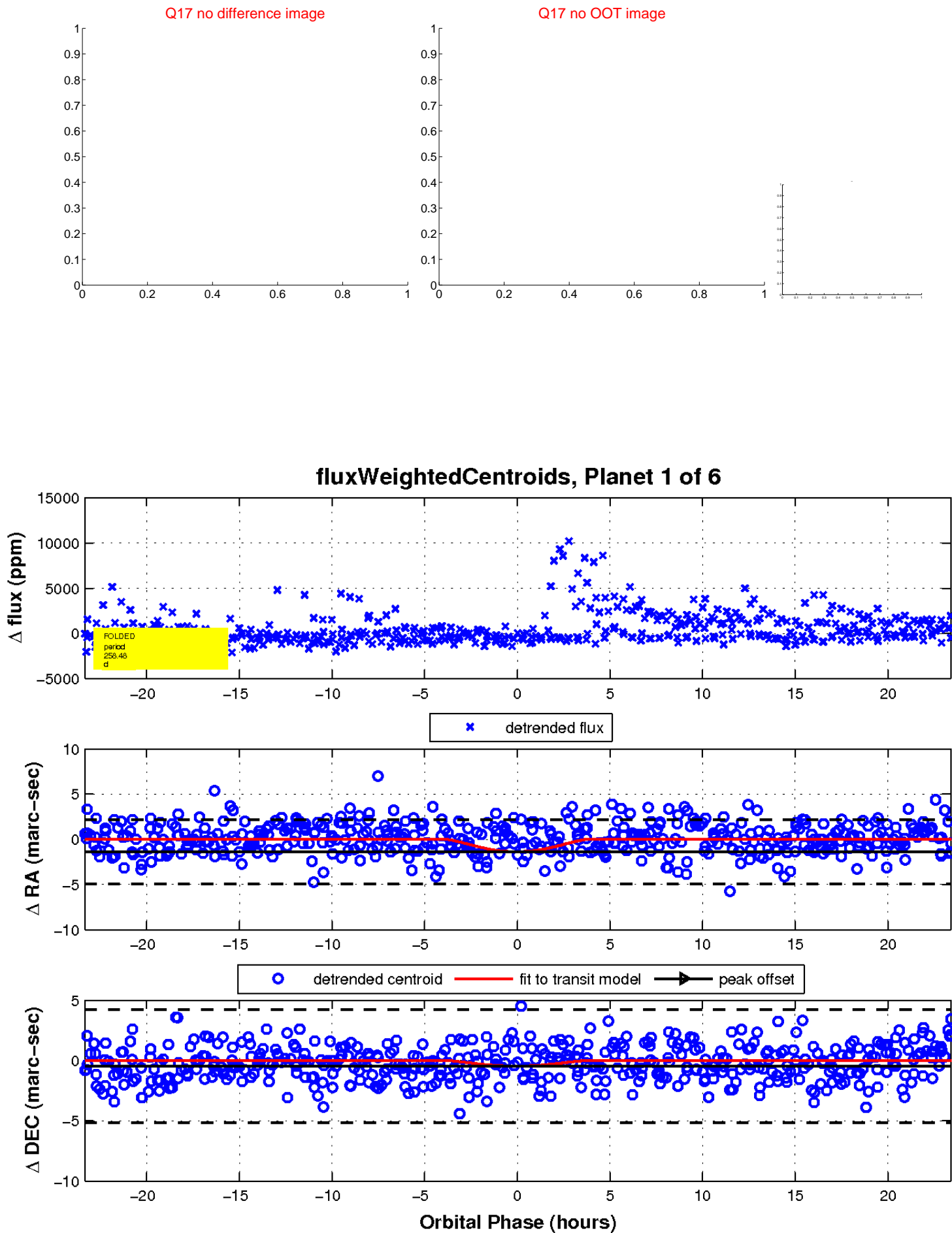
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

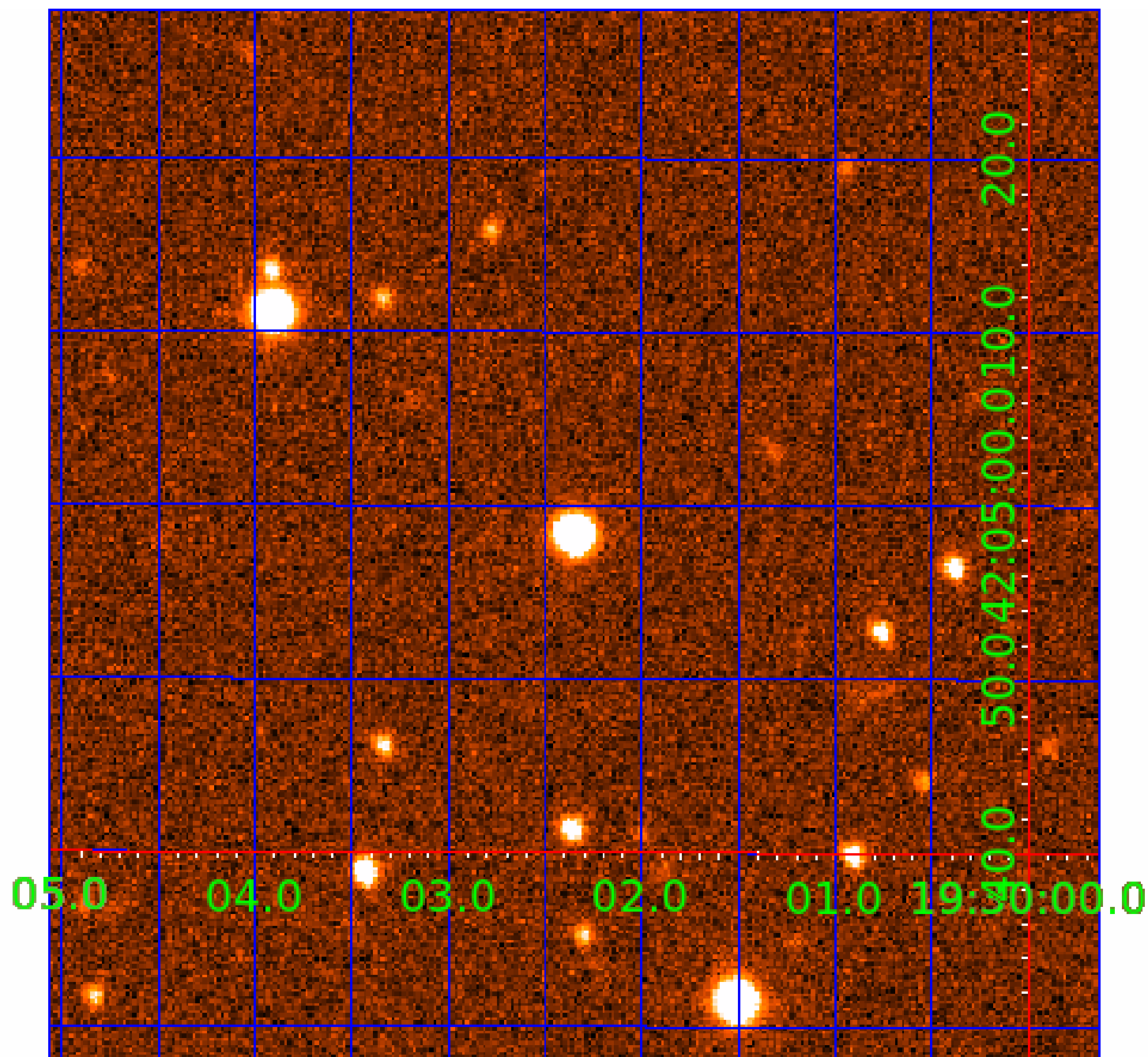


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006608436

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})
006608436-01	OBS	No	258.482480	312.195418	1795.8	7.827	14.8	7.1	0.76	5295	6.20	0.80
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006608436-05	OBS	No	358.820005	460.607701	1860.1	4.946	12.5	9.4	0.76	5295	3.31	0.52
006608436-06	OBS	No	365.352053	380.963894	994.5	7.500	13.5	-1.0	0.76	5295	2.34	0.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006608436-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS
006608436-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

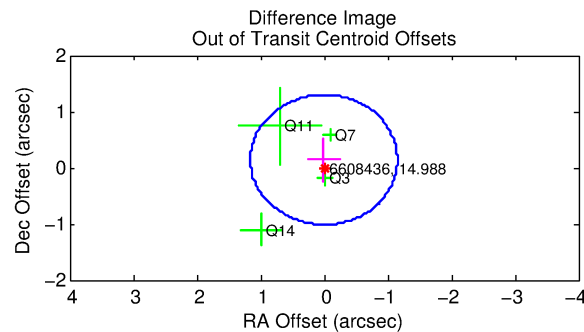
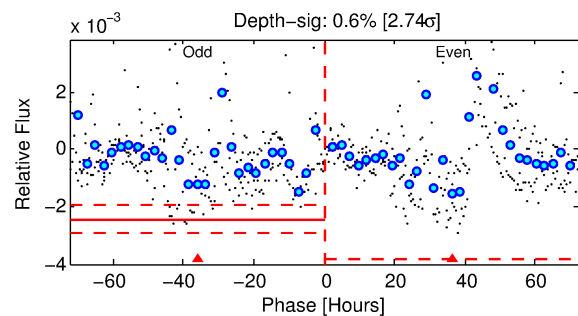
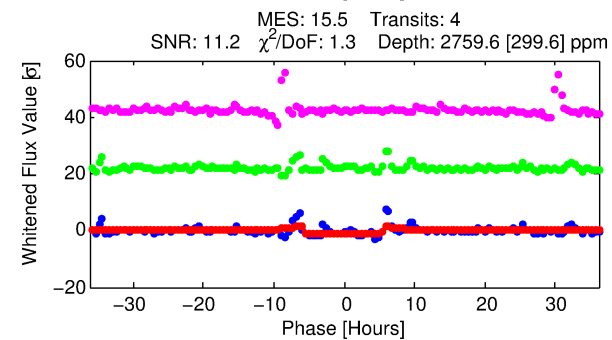
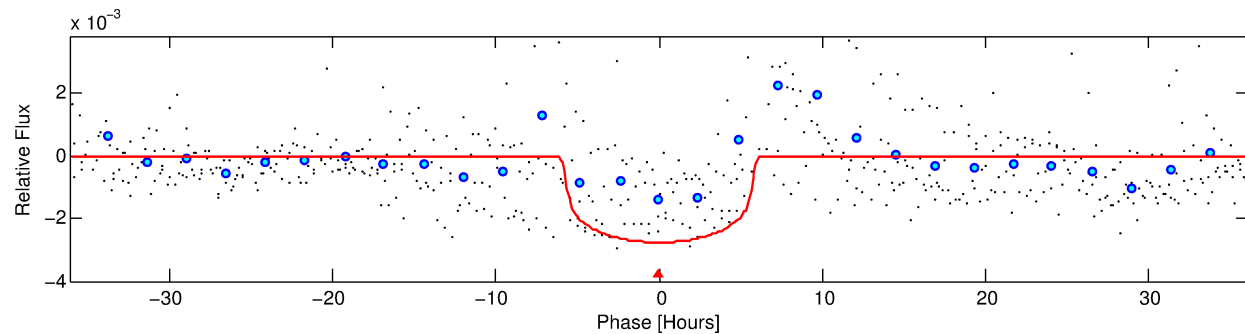
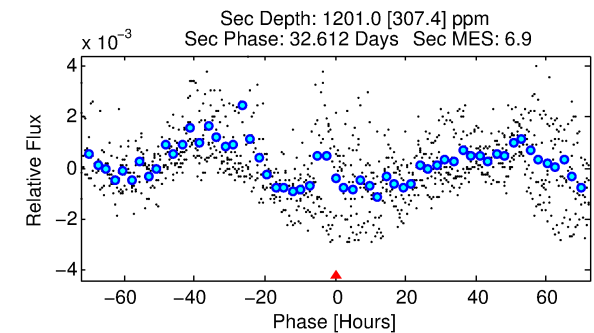
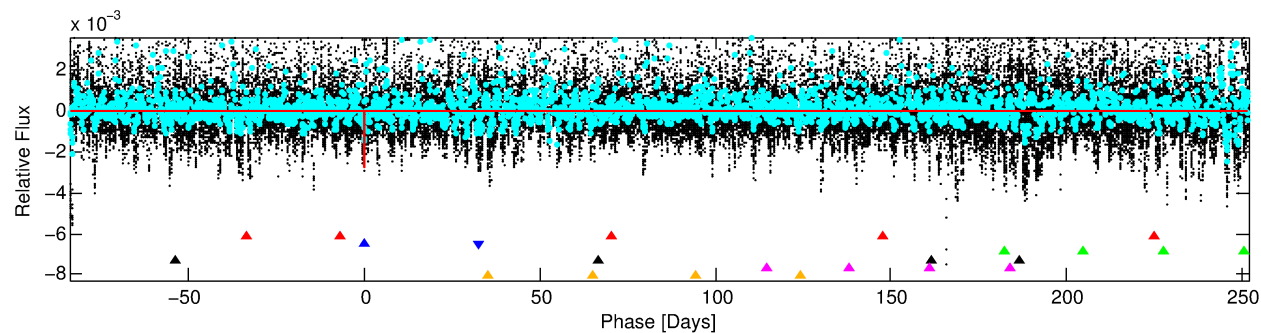
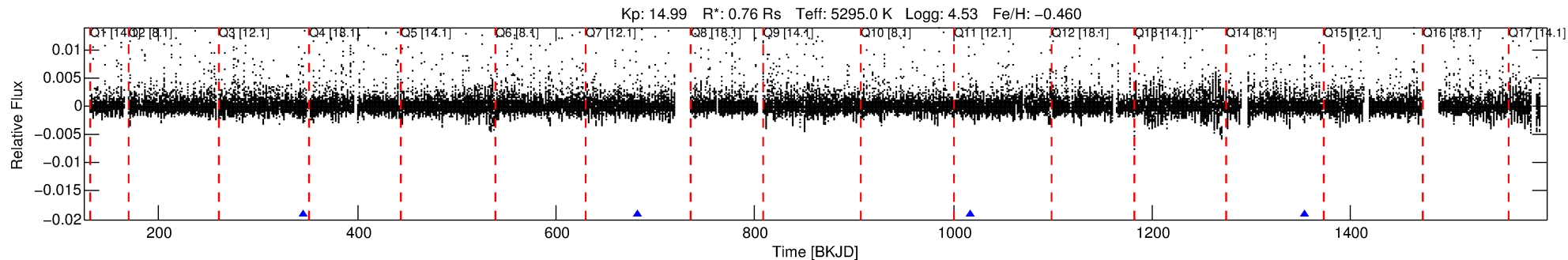
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006608436-02

No Significant Match Found

DV One-Page Summary

KIC: 6608436 Candidate: 2 of 6 Period: 335.739 d



DV Fit Results:

Period = 335.73870 [0.00330] d
Epoch = 345.7815 [0.0060] BKJD
Rp/R* = 0.0473 [0.0079]
a/R* = 222.54 [130.97]
b = 0.04 [16.34]
Seff = 0.57 [0.12]
Teq = 221 [12] K
Rp = 3.90 [0.82] Re
a = 0.8421 [0.0969] AU
Ag = 30790.20 [13986.95] [2.20σ]
Teffp = 4533 [494] K [8.73σ]

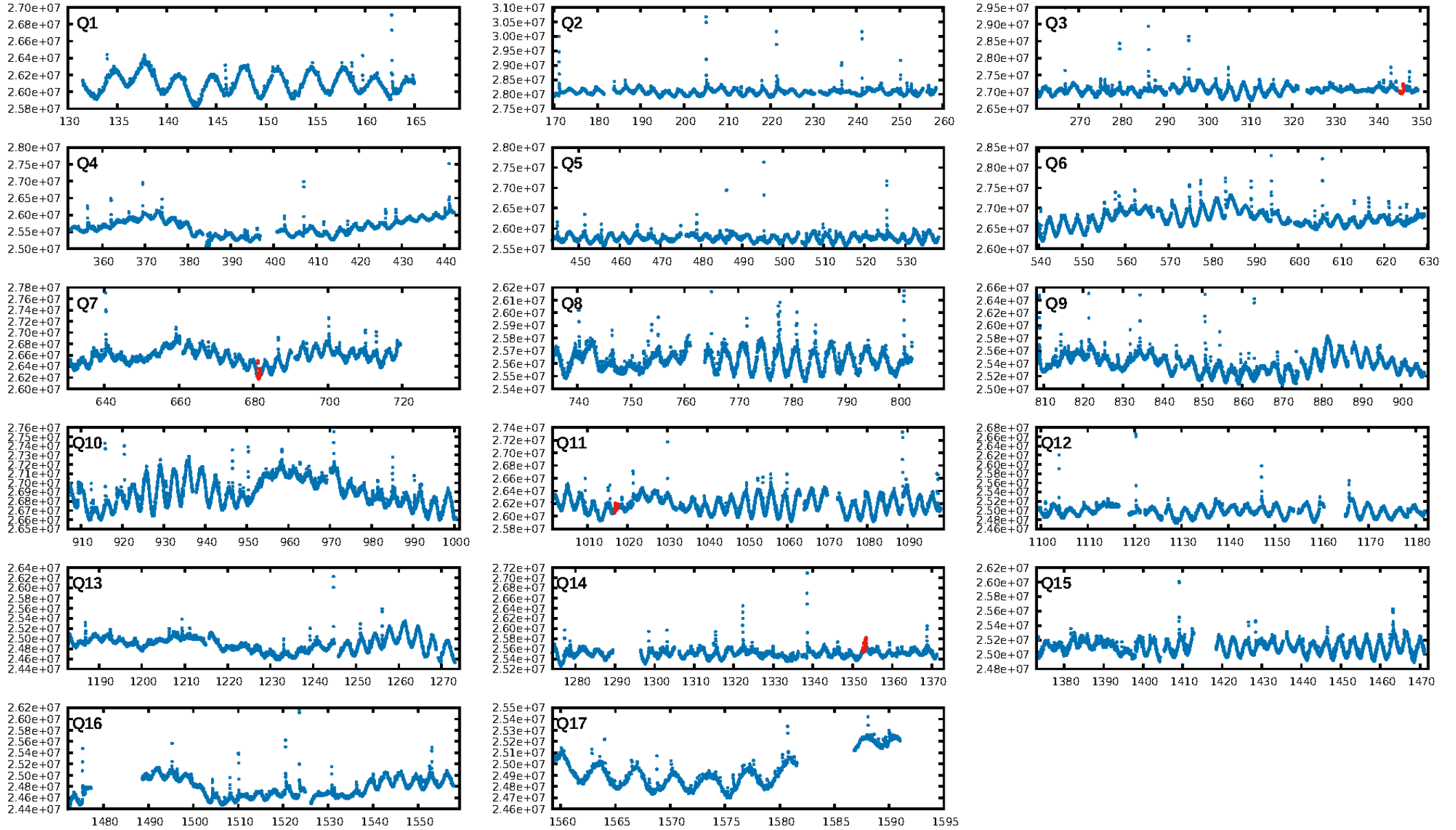
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [128.94σ]
LongPeriod-sig: 100.0% [32.53σ]
ModelChiSquare2-sig: 3.3%
ModelChiSquareGof-sig: 88.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.337
Centroid-sig: 32.1%
Centroid-so: 0.175 arcsec [0.94σ]
OotOffset-rm: 0.141 arcsec [0.37σ]
KicOffset-st: 1/3/0/0 [4]
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DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

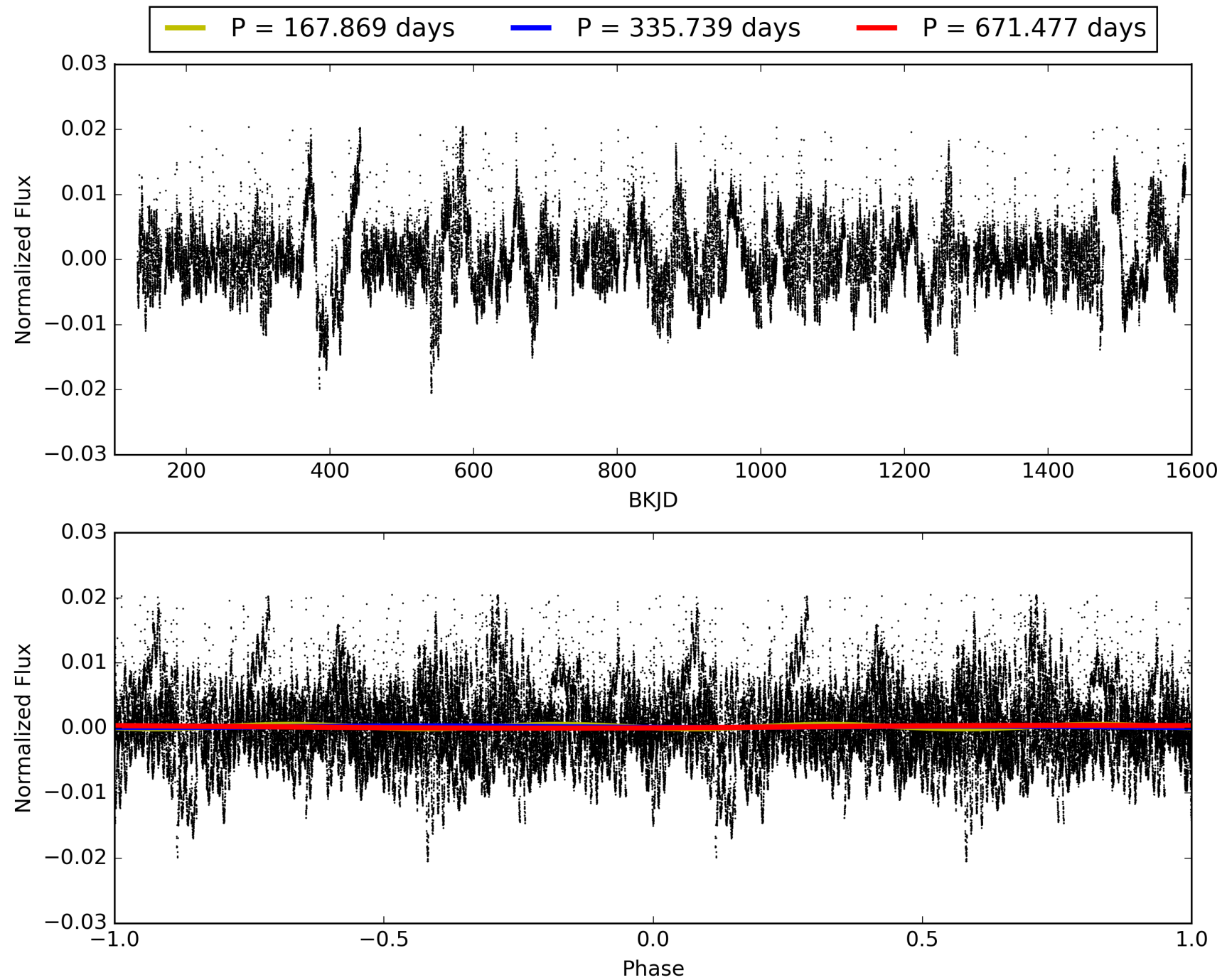
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TCE 006608436-02, PDC Light Curves

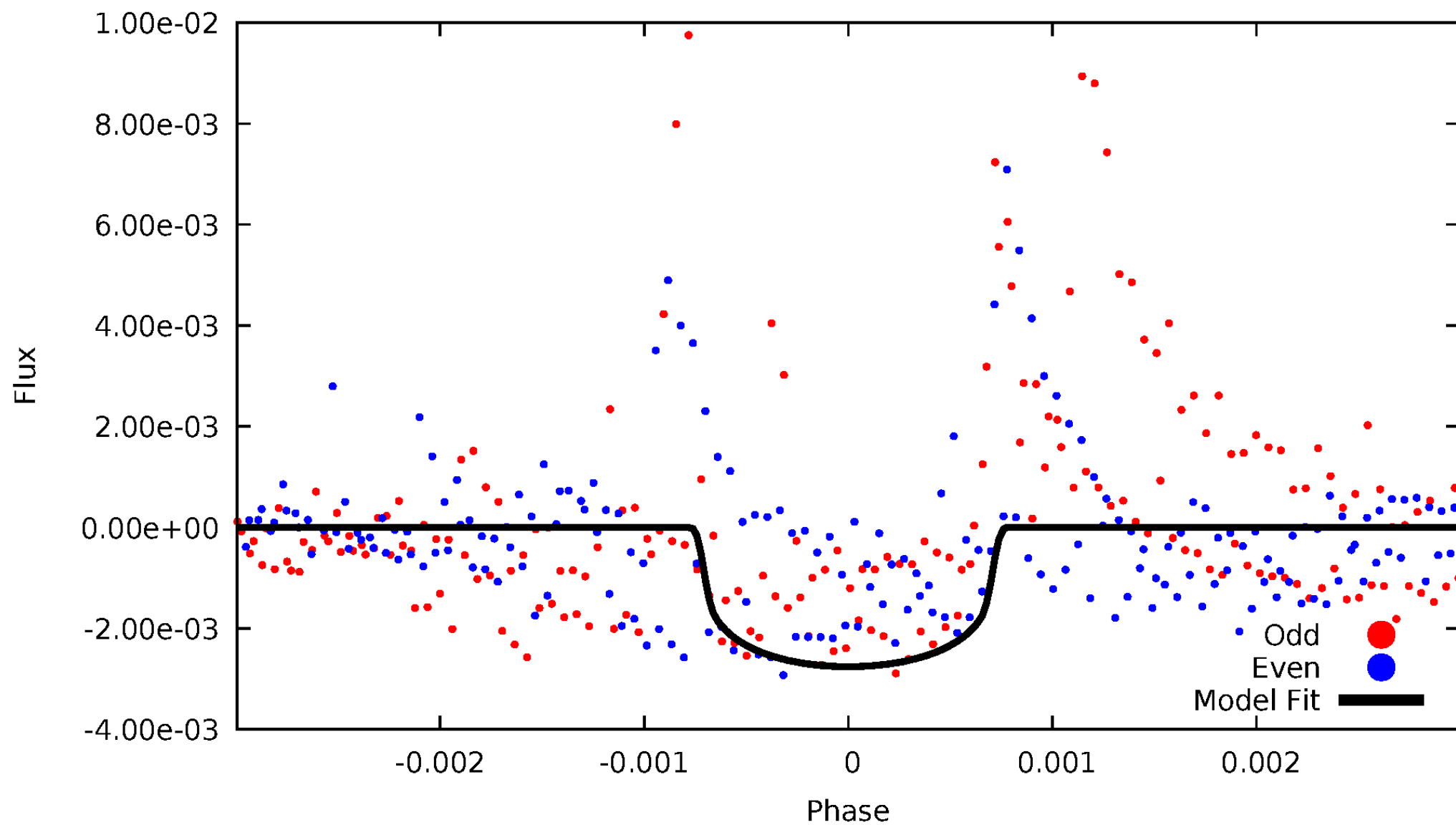


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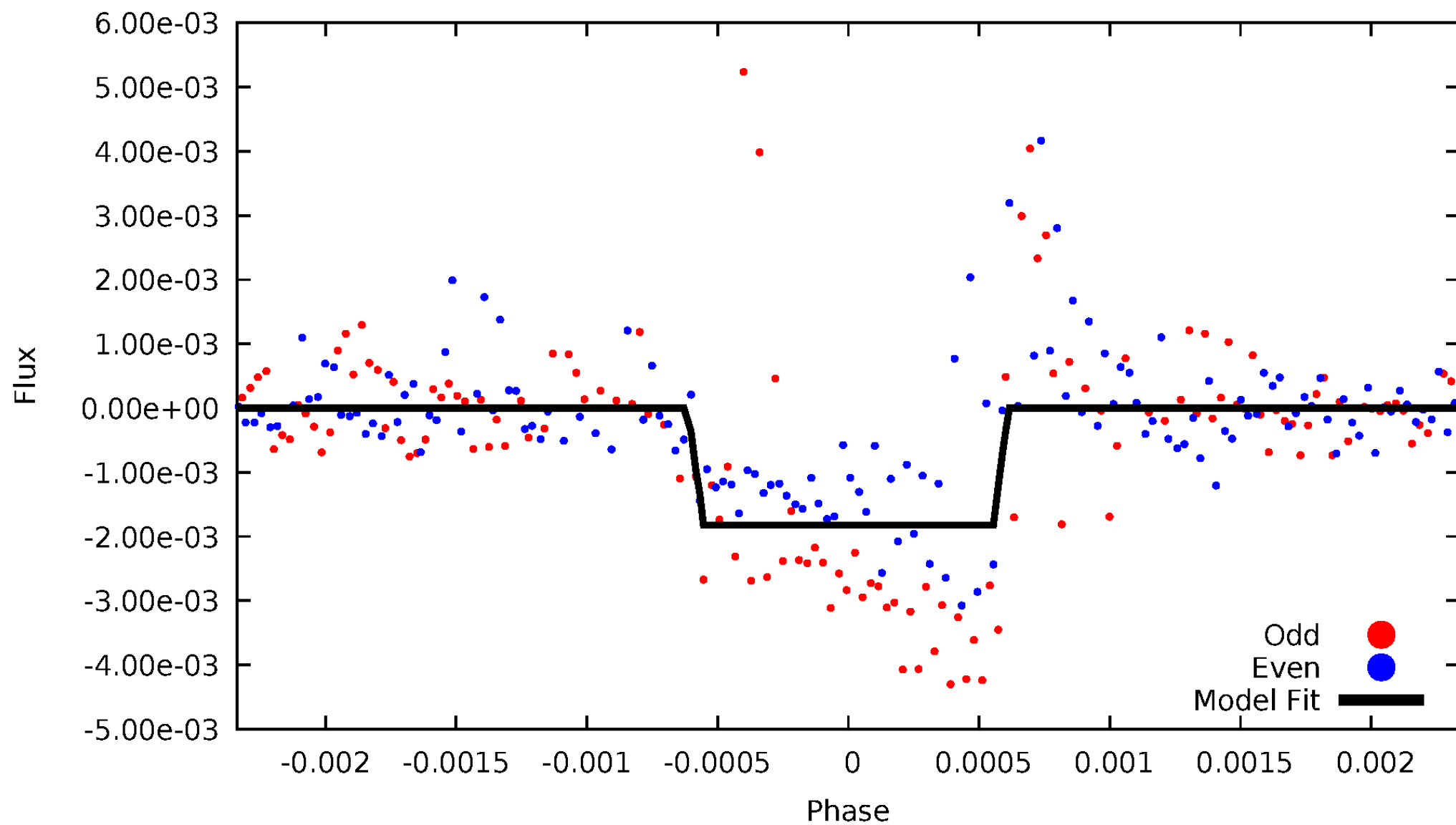
DV Odd/Even

TCE 006608436-02



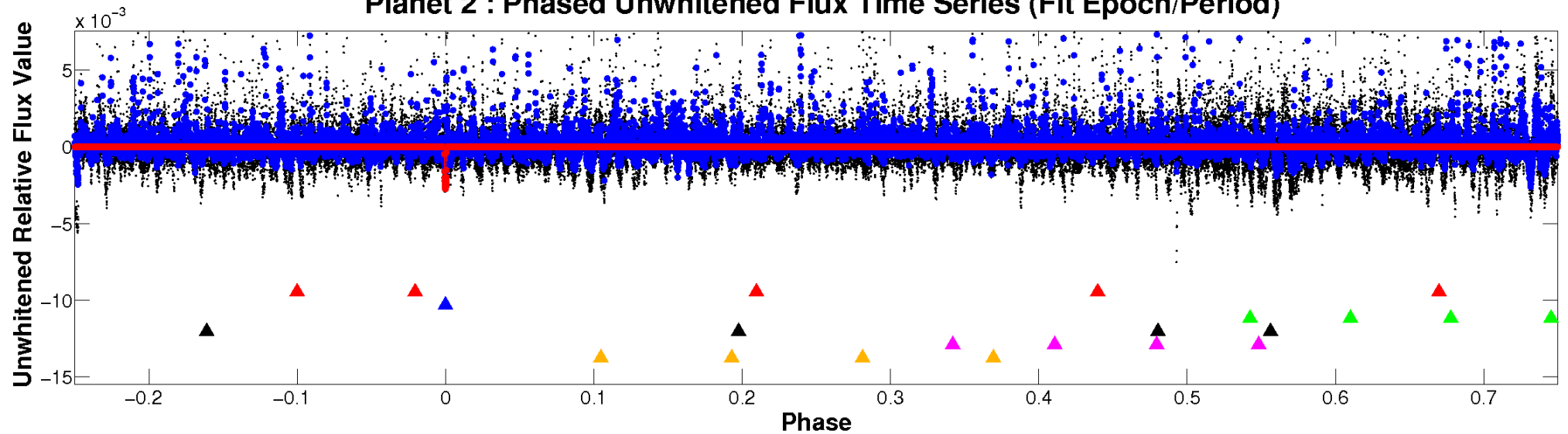
ALT Odd/Even

TCE 006608436-02

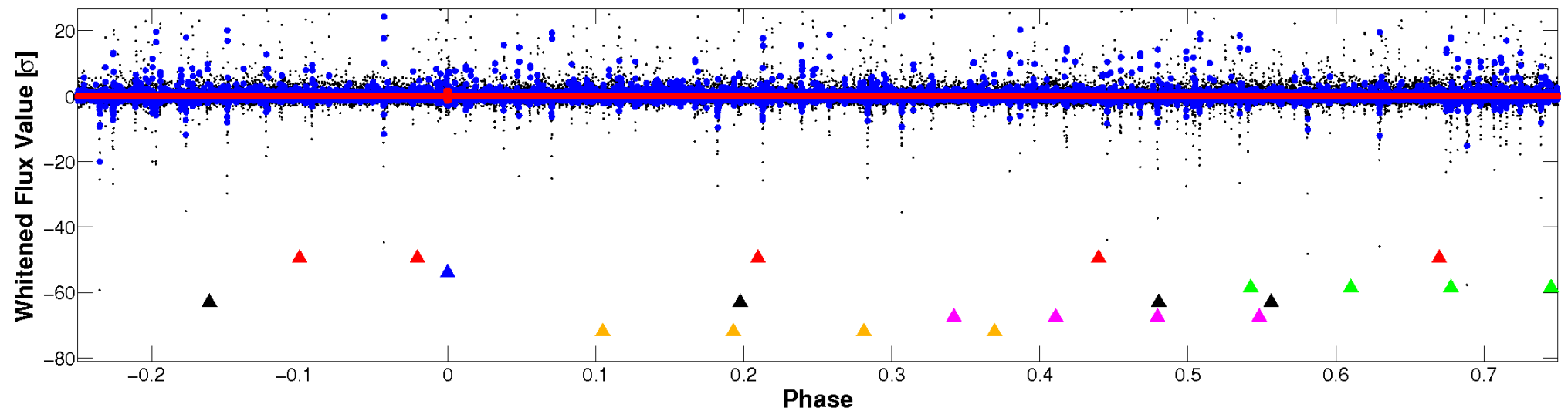


Non-Whitened Vs. Whitened Light Curve

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

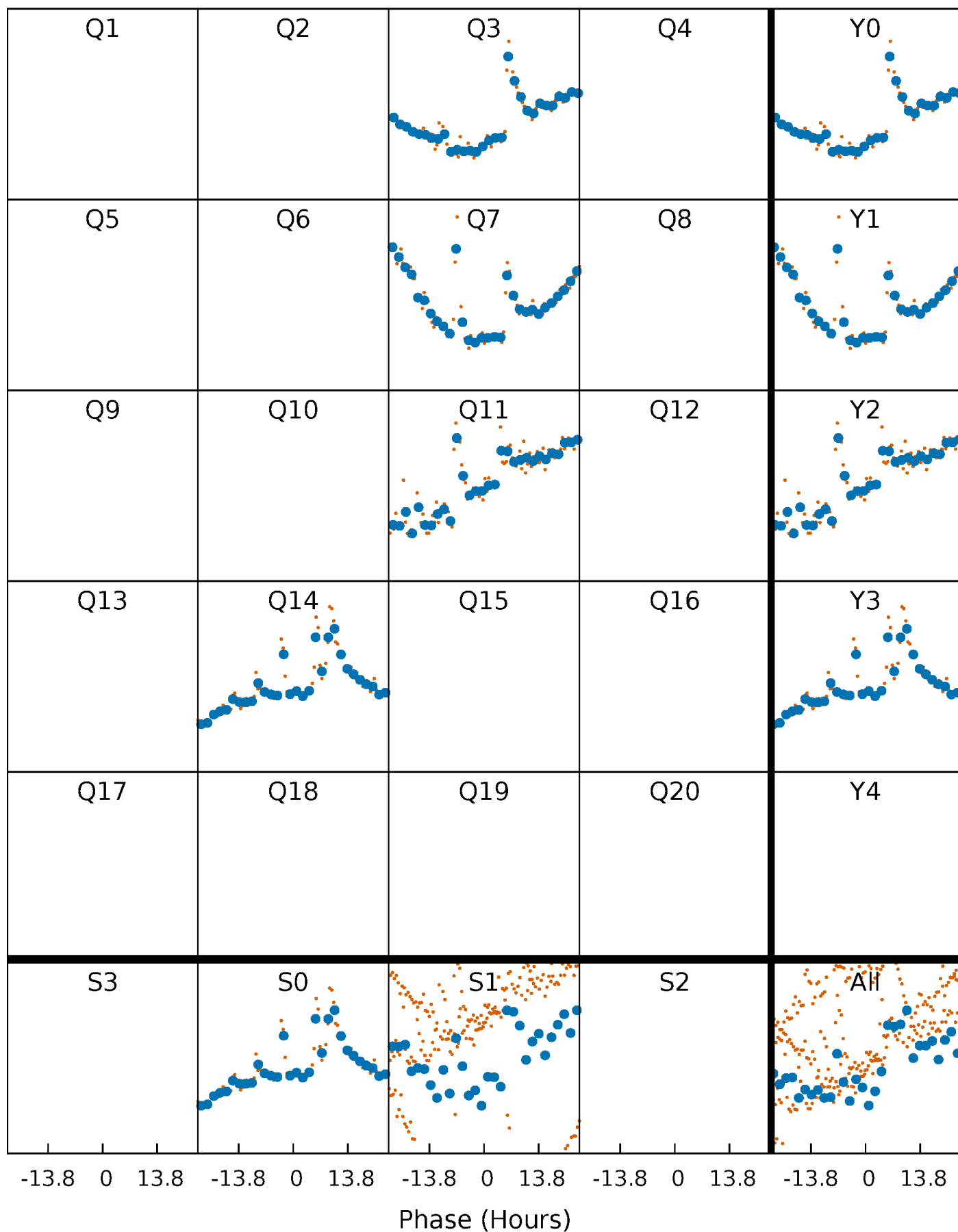


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



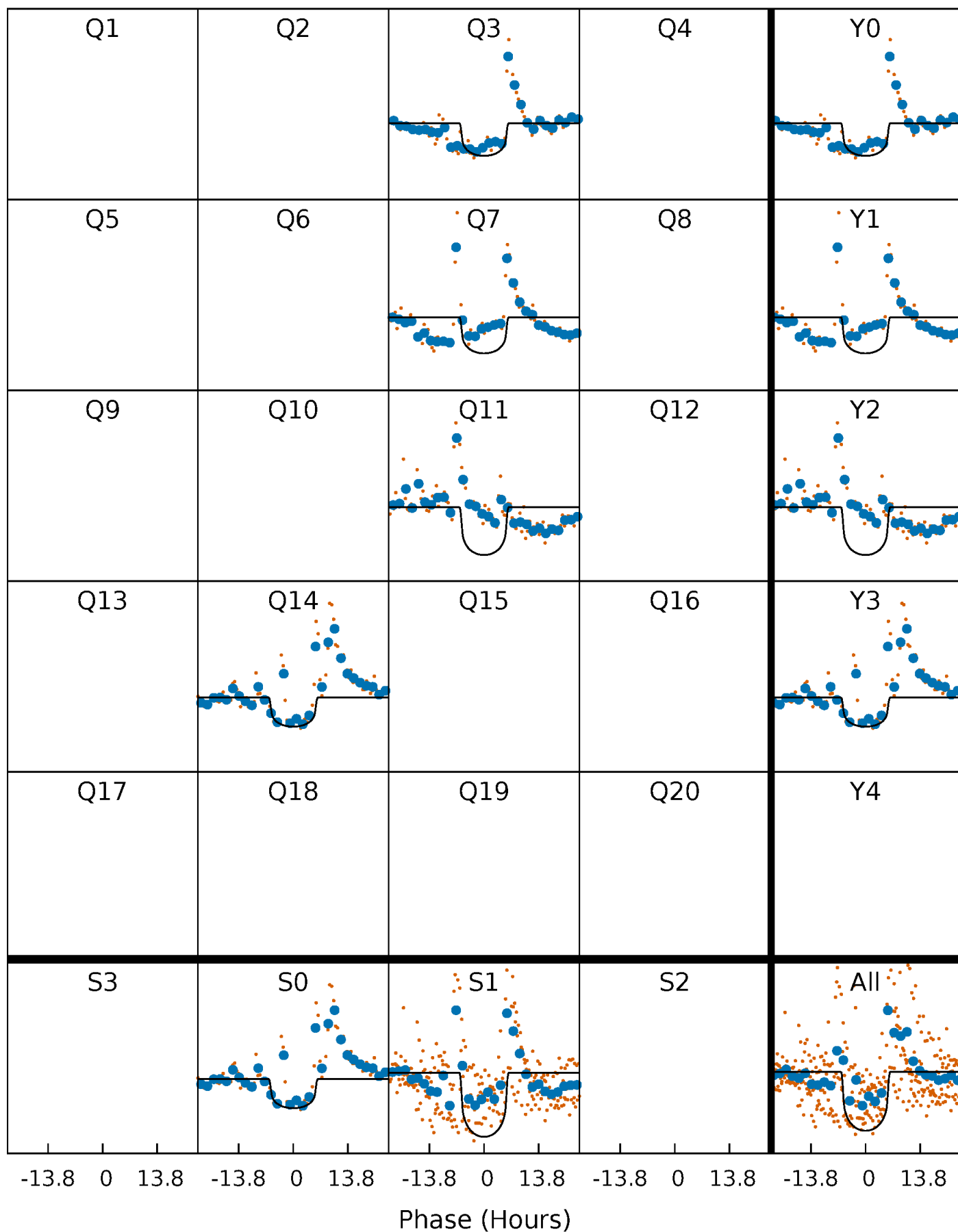
PDC Quarter-Phased Transit Curves

TCE 006608436-02 P=335.738702 Days $T_0=345.781516$ (BKJD)



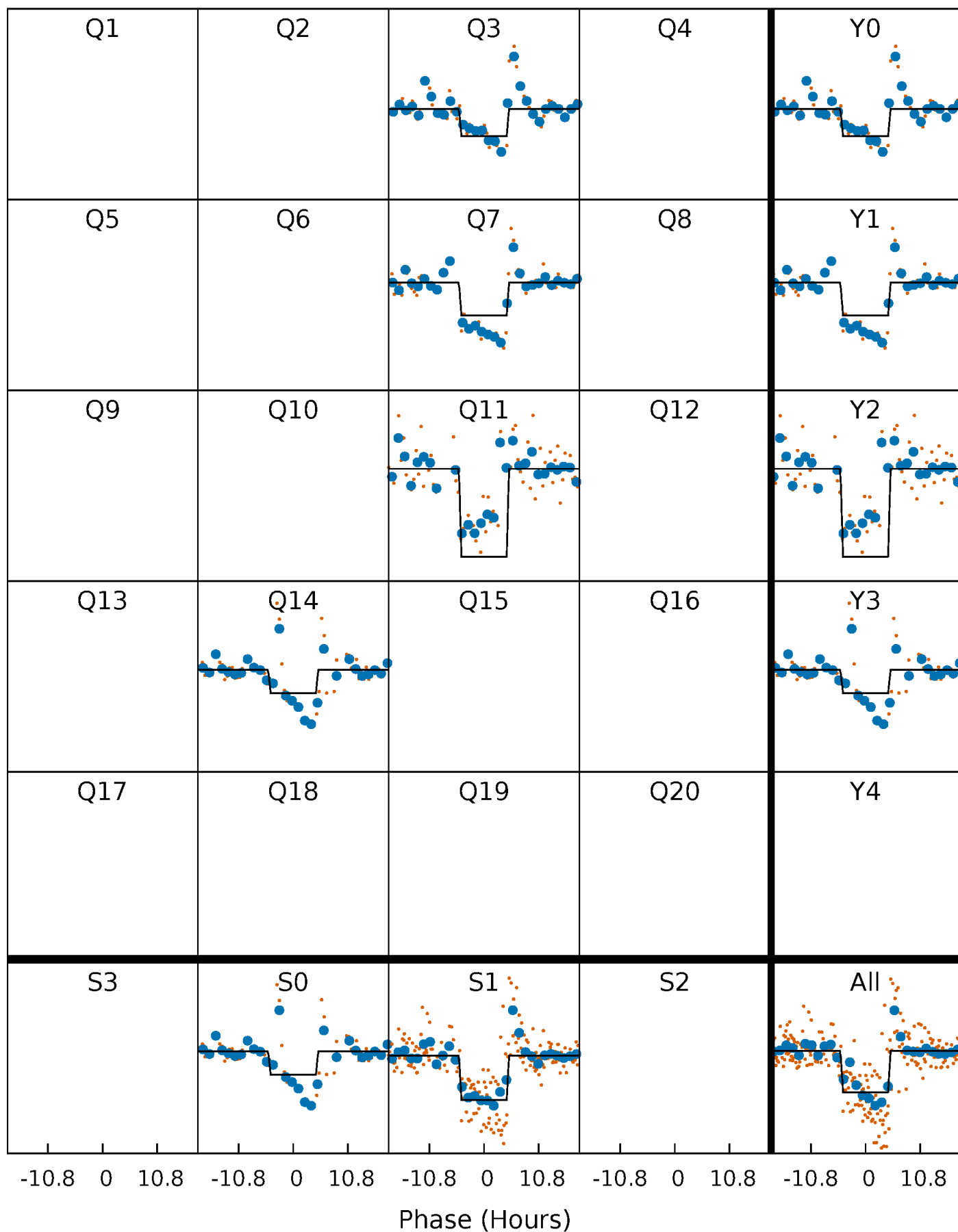
DV Quarter-Phased Transit Curves

TCE 006608436-02 $P=335.738702$ Days $T_0=345.781516$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

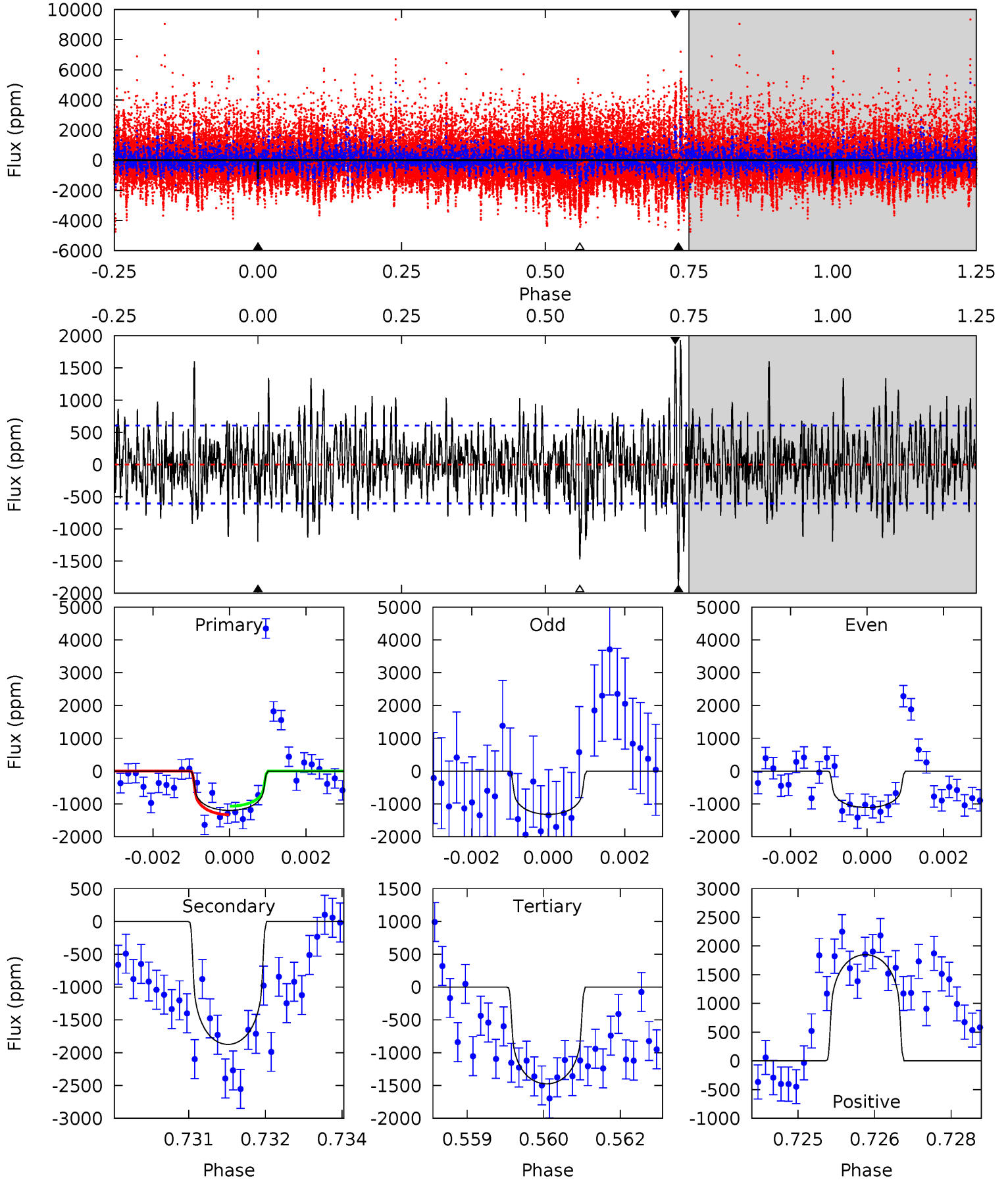
TCE 006608436-02 $P=335.730202$ Days $T_0=345.815243$ (BKJD)



DV Model-Shift Uniqueness Test

006608436-02, P = 335.738702 Days, E = 10.042814 Days

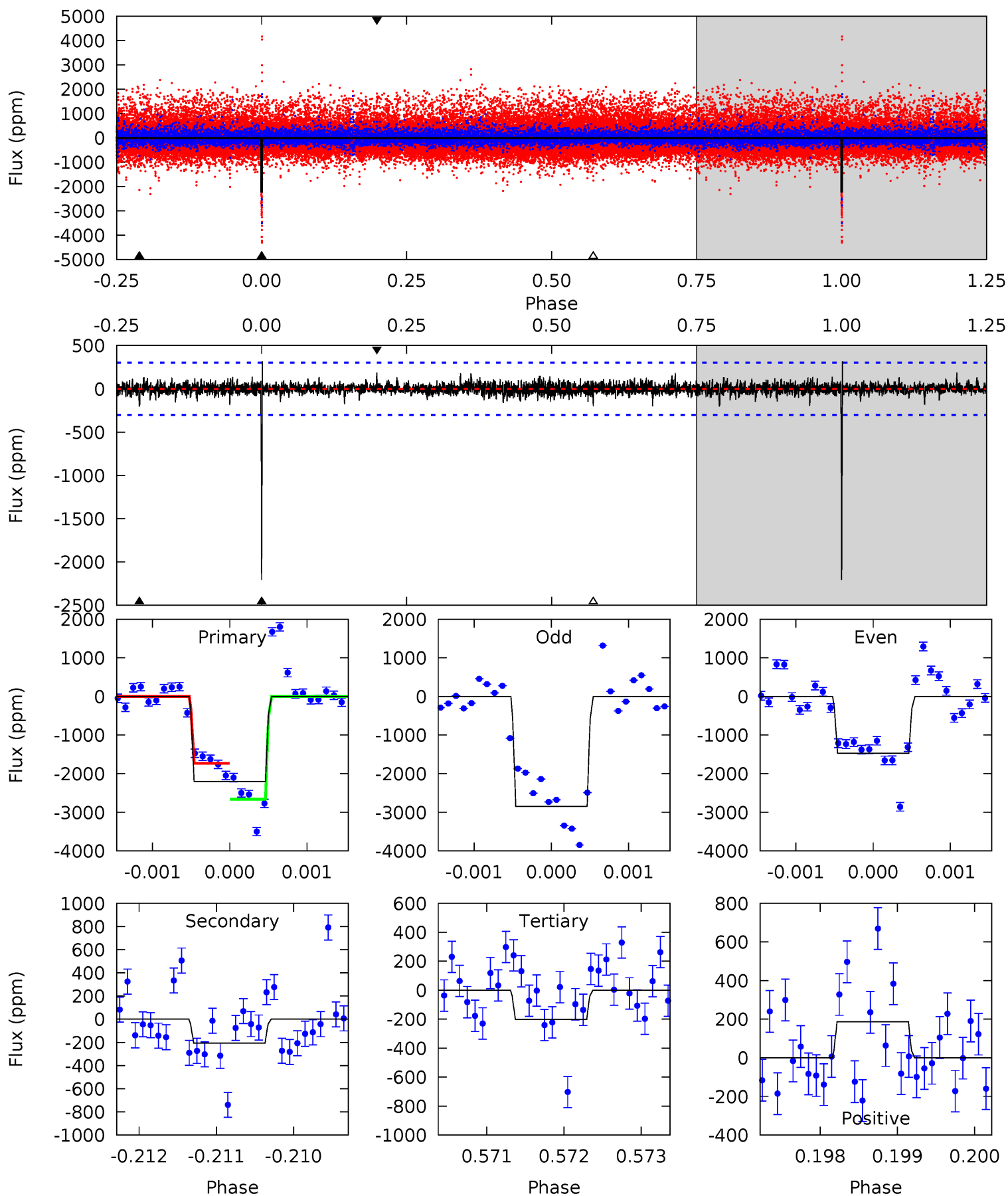
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	16.6	13.1	16.4	5.37	3.17	3.67	-2.45	-5.77	3.54	0.22	0.82	0.96	0.51	1.16



Alt Model-Shift Uniqueness Test

006608436-02, P = 335.730202 Days, E = 10.085041 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
39.6	3.69	3.61	3.35	5.42	3.24	0.75	35.9	36.2	0.08	0.34	11.9	0.97	0.13	8.33



Stellar Parameters For KIC 006608436

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5295^{+158}_{-142}	$4.530^{+0.099}_{-0.072}$	$-0.460^{+0.300}_{-0.300}$	$0.756^{+0.098}_{-0.088}$	$0.707^{+0.103}_{-0.044}$	$2.299^{+0.937}_{-0.561}$
	+3%/-3%	+2%/-2%	+65%/-65%	+13%/-12%	+15%/-6%	+41%/-24%
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 006608436-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1874 ± 113	$3.87^{+0.72}_{-0.67}$	308^{+13}_{-12}	5116^{+483}_{-375}	49322^{+23554}_{-14670}
Alt.	-206 ± 56	$3.50^{+0.72}_{-0.67}$	308^{+14}_{-13}	3529^{+284}_{-267}	6603^{+3960}_{-2572}

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

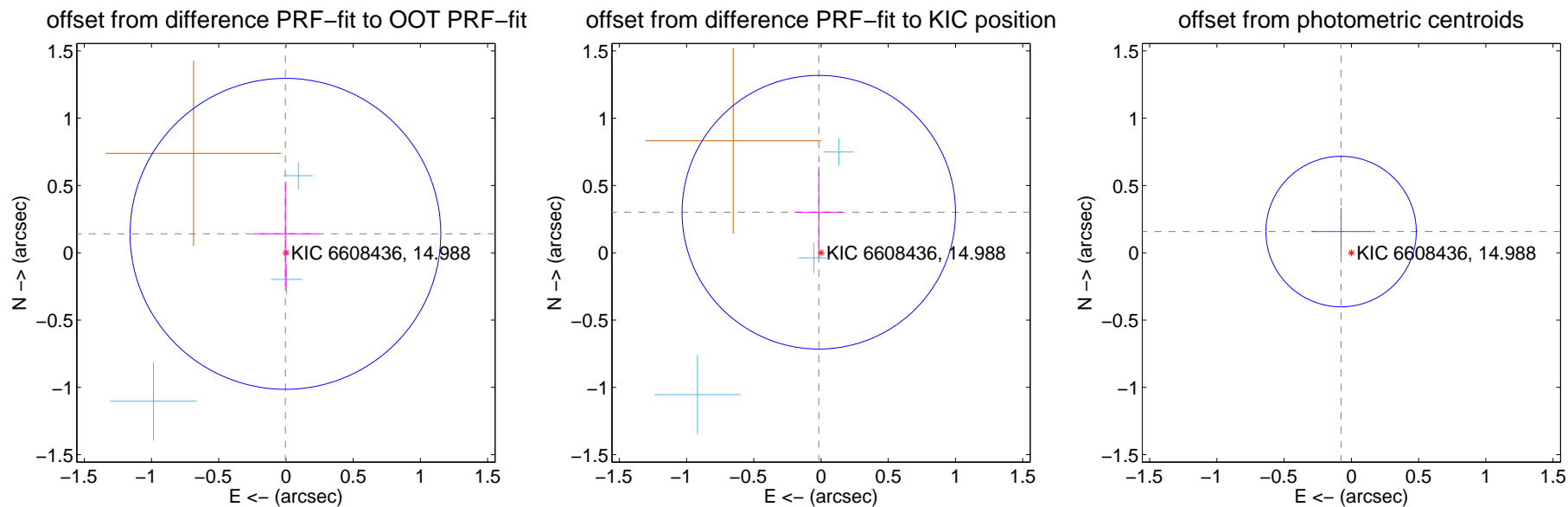
DV Centroid Data

Supplemental centroid analysis for 006608436-02. Kepler magnitude: 14.99. Transit SNR 11.18

There are 3 quarters with good PRF difference image offsets

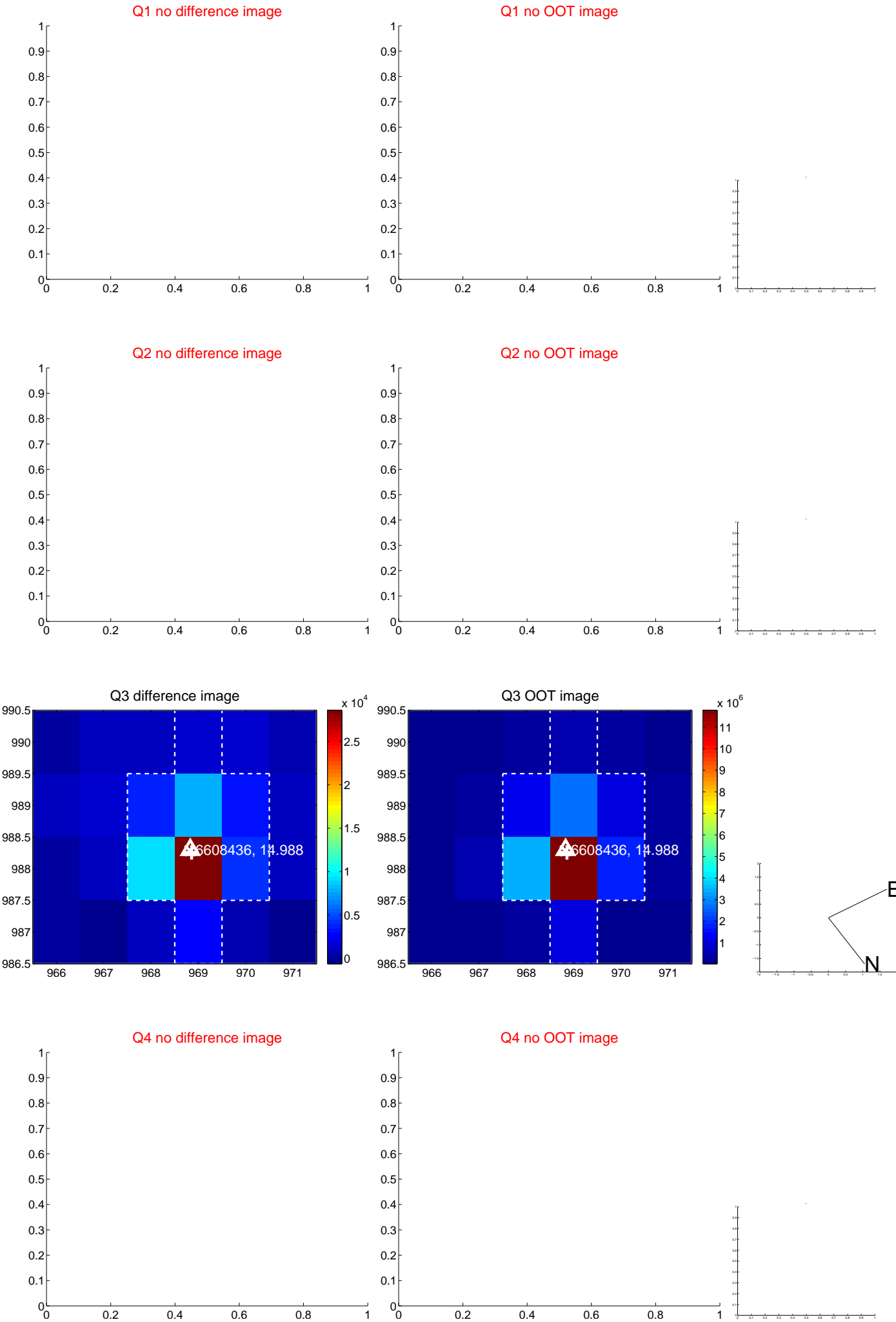
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.141 ± 0.385	0.37	0.004 ± 0.240	0.141 ± 0.388
PRF-fit source offset from KIC position	0.302 ± 0.339	0.89	0.017 ± 0.177	0.301 ± 0.339
photometric centroid source offset	0.18 ± 0.19	0.94	0.08 ± 0.22	0.16 ± 0.18

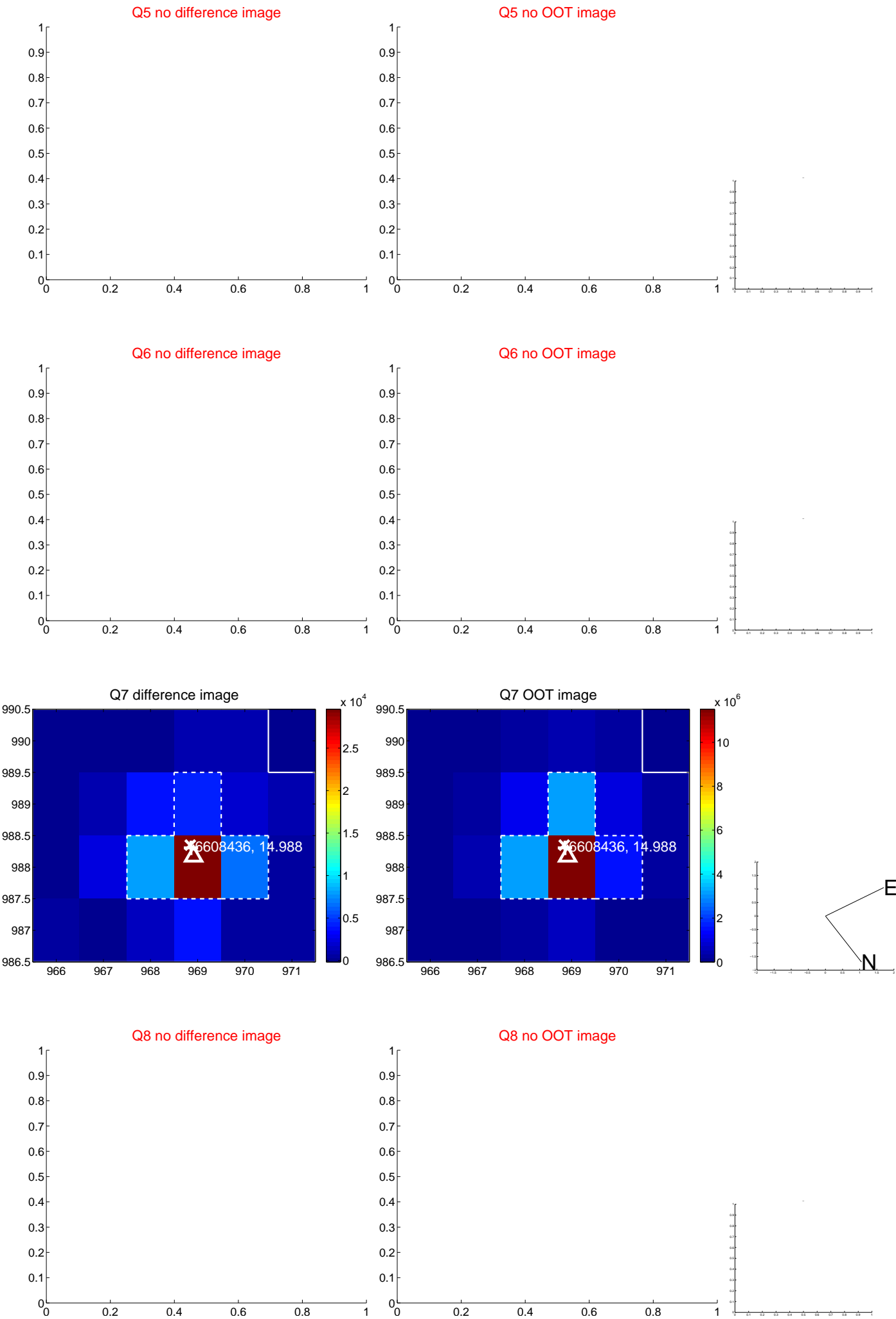


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

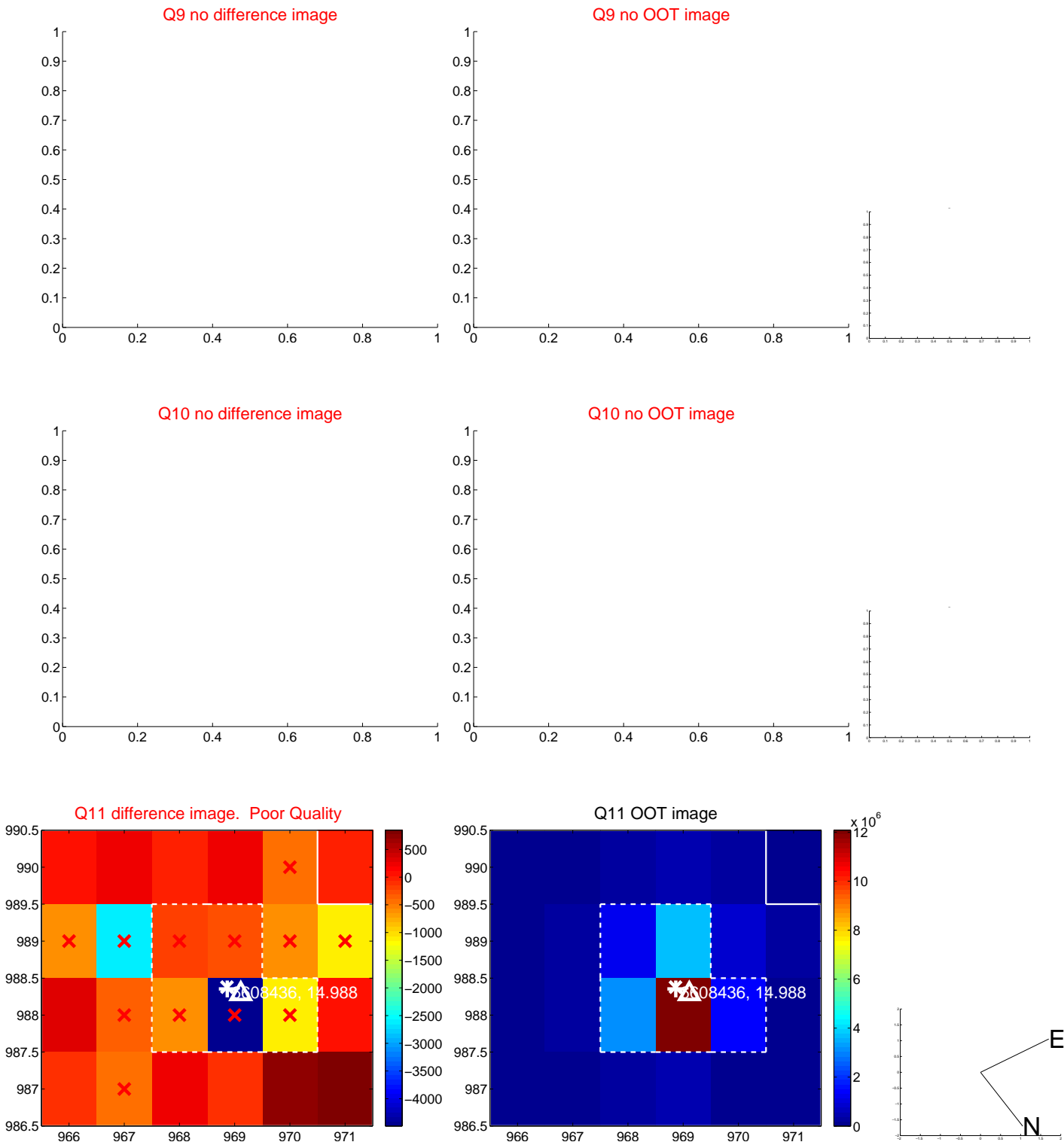
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

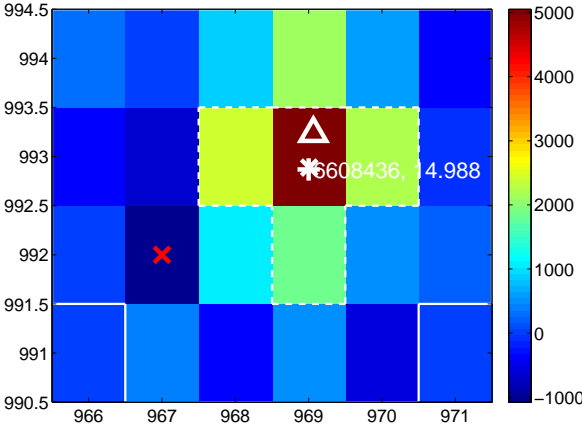
Q13 no difference image



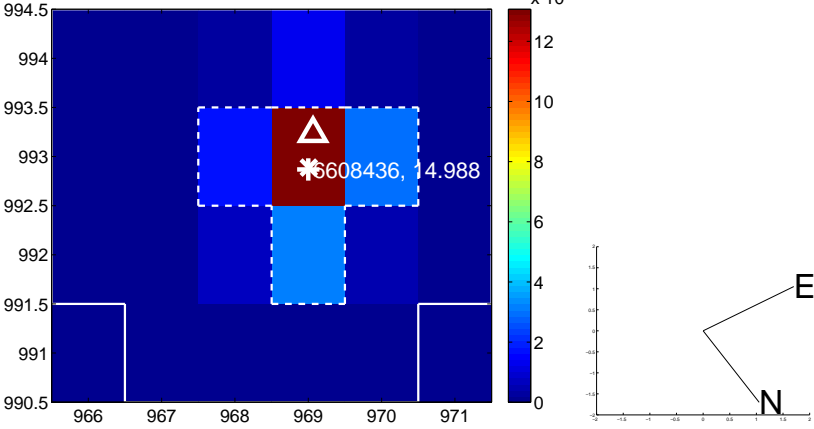
Q13 no OOT image



Q14 difference image



Q14 OOT image



Q15 no difference image



Q15 no OOT image



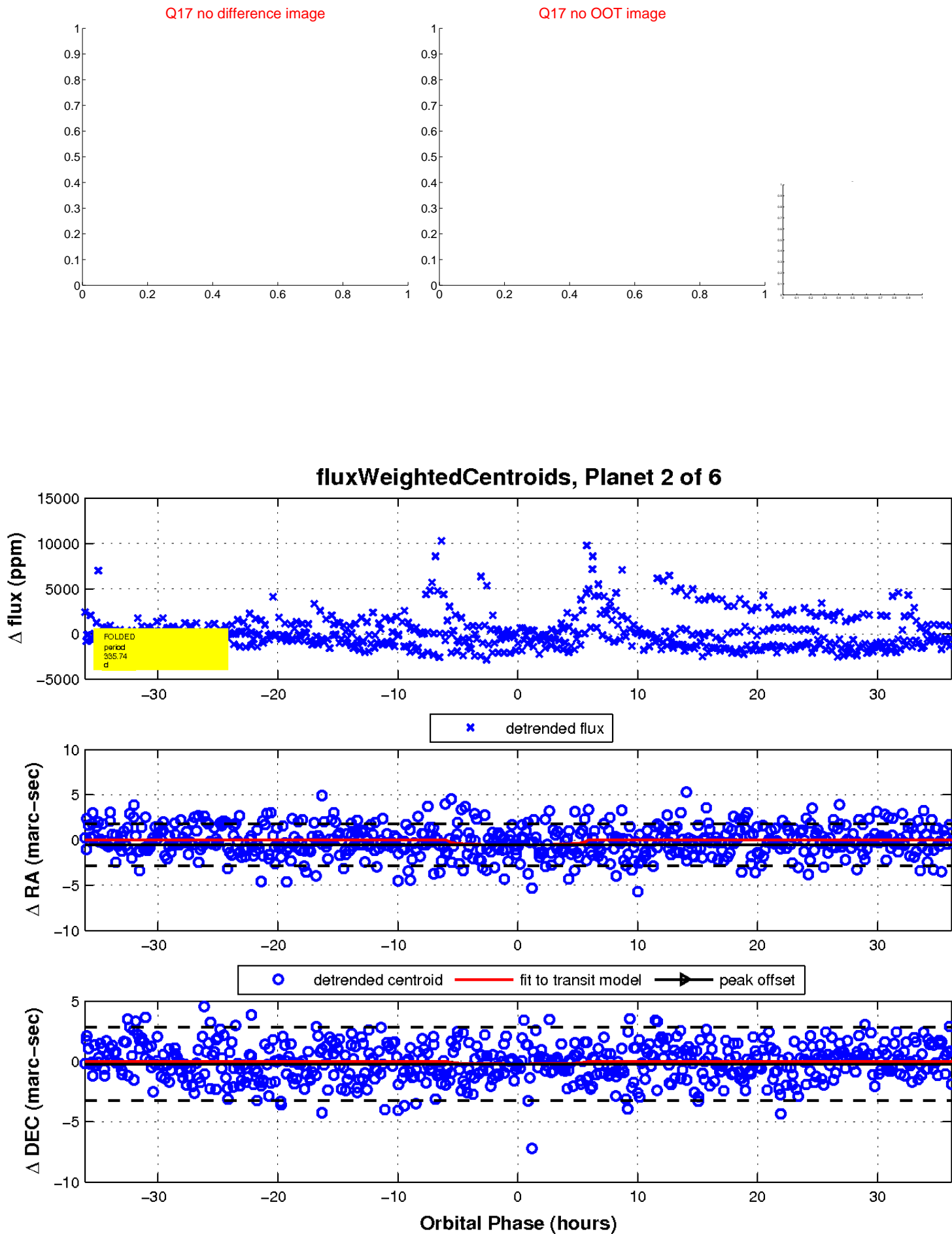
Q16 no difference image



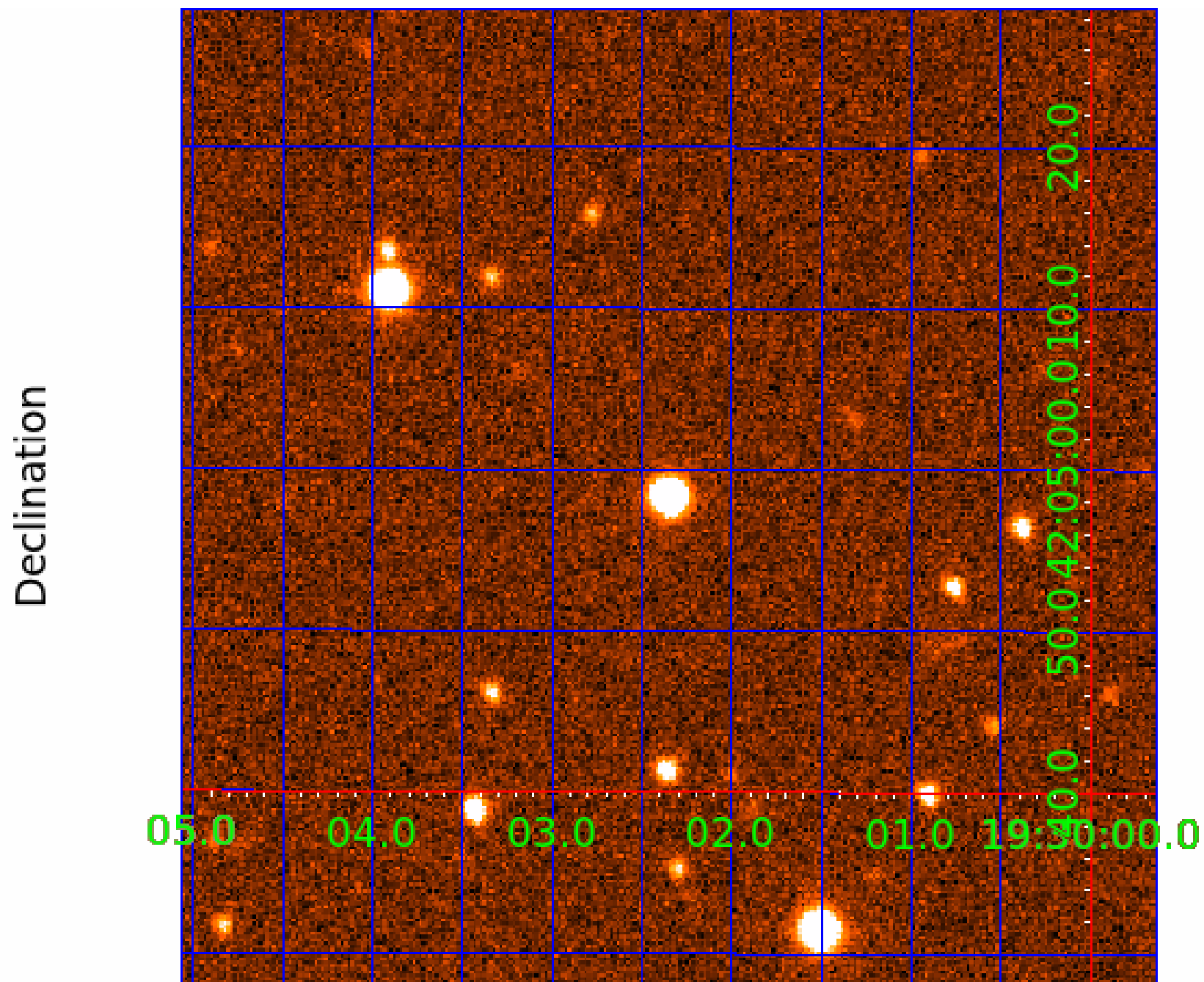
Q16 no OOT image



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



UKIRT Image



KIC 006608436

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})
006608436-01	OBS	No	258.482480	312.195418	1795.8	7.827	14.8	7.1	0.76	5295	6.20	0.80
006608436-02	OBS	No	335.738702	345.781516	2759.6	12.063	15.5	11.2	0.76	5295	3.90	0.57
006608436-03	OBS	No	358.451805	192.177670	1640.7	11.628	14.0	7.5	0.76	5295	3.01	0.52
006608436-05	OBS	No	358.820005	460.607701	1860.1	4.946	12.5	9.4	0.76	5295	3.31	0.52
006608436-06	OBS	No	365.352053	380.963894	994.5	7.500	13.5	-1.0	0.76	5295	2.34	0.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006608436-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006608436-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS
006608436-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

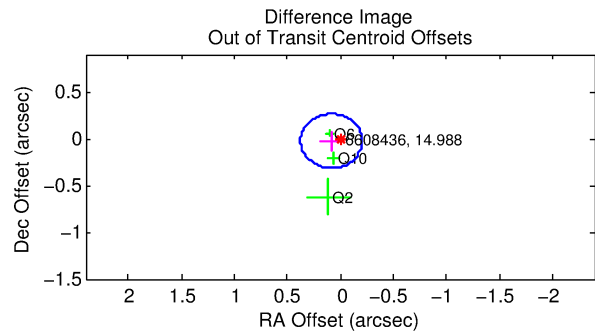
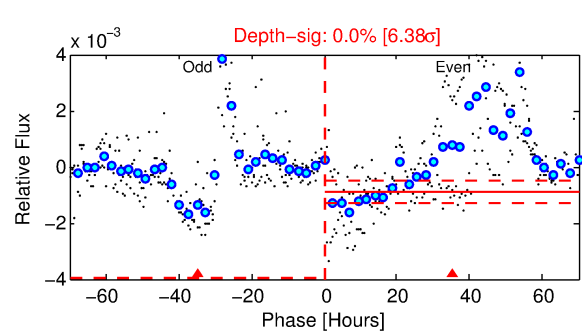
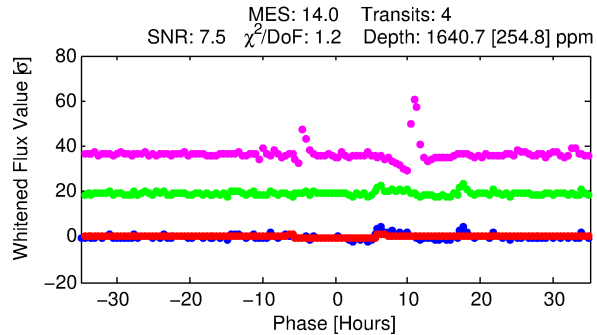
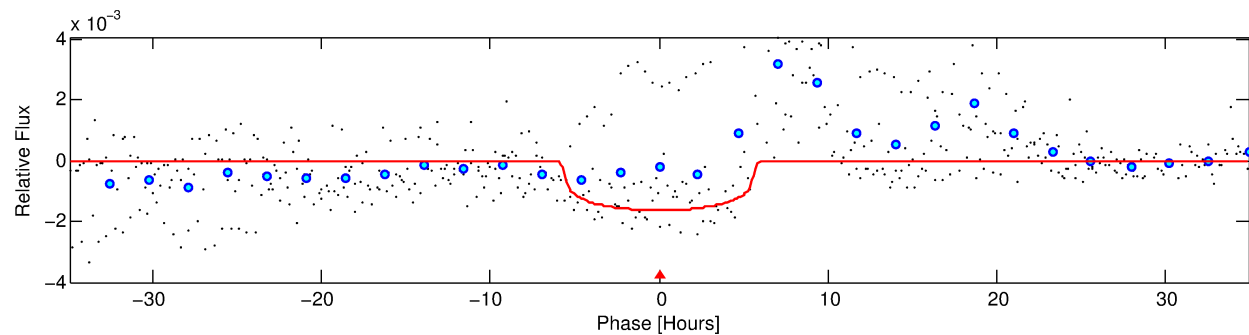
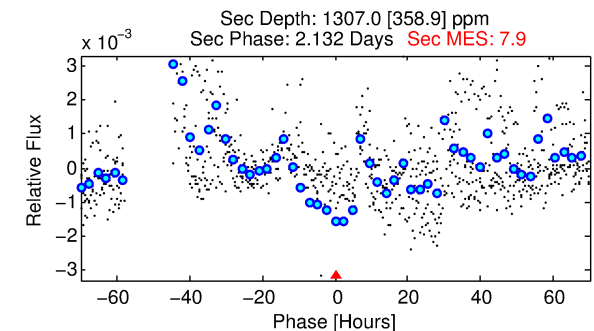
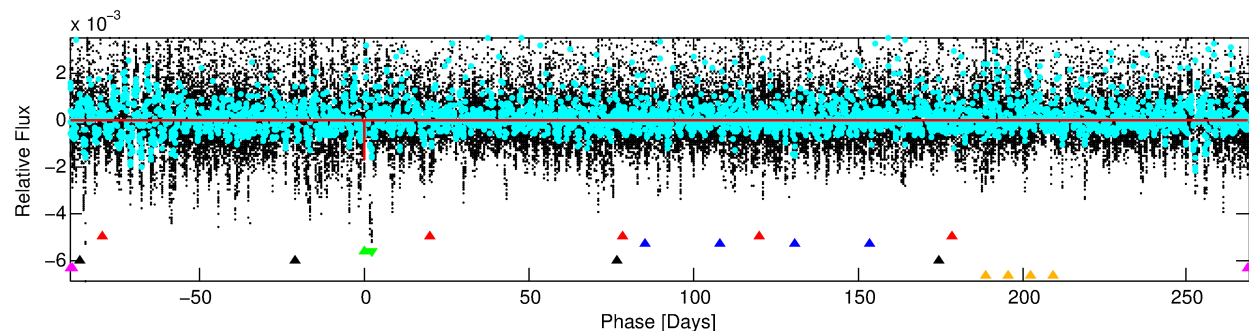
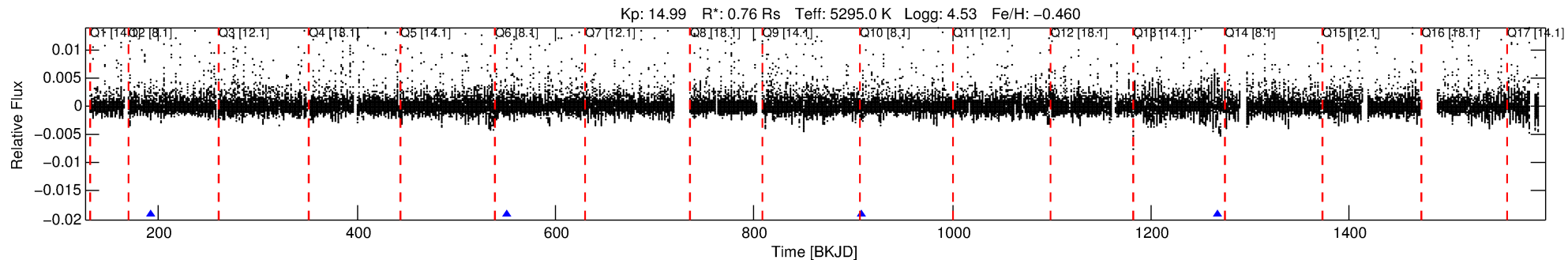
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006608436-03

No Significant Match Found

DV One-Page Summary

KIC: 6608436 Candidate: 3 of 6 Period: 358.452 d



DV Fit Results:

Period = 358.45181 [0.00472] d
Epoch = 192.1777 [0.0088] BKJD
Rp/R* = 0.0365 [0.0159]
a/R* = 244.05 [410.42]
b = 0.02 [89.43]
Seff = 0.52 [0.11]
Teq = 217 [11] K
Rp = 3.01 [1.37] Re
a = 0.8797 [0.1012] AU
Ag = 61519.47 [57228.50] [1.07σ]
Teff = 5273 [1215] K [4.16σ]

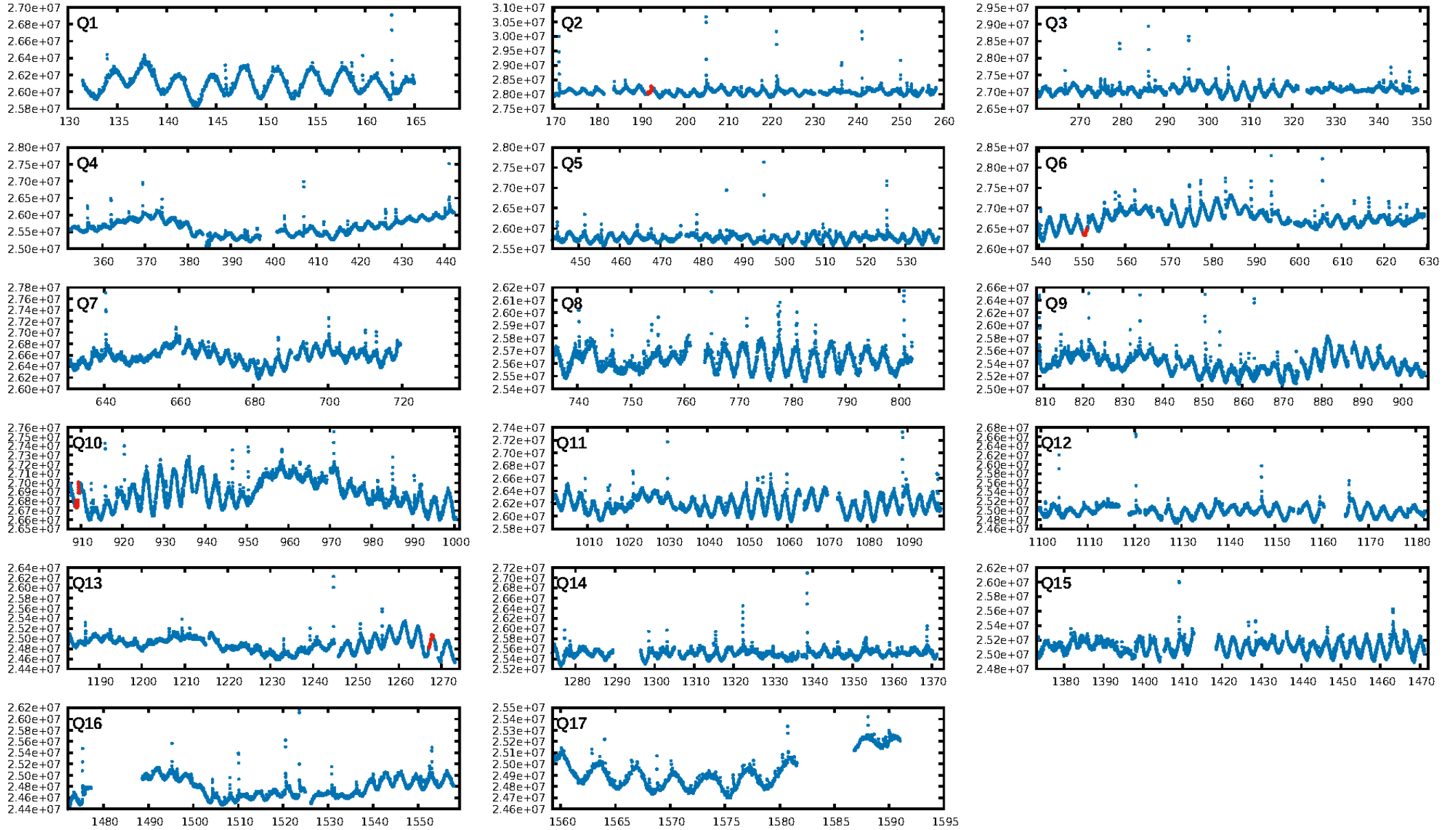
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [32.53σ]
LongPeriod-sig: 51.6% [0.70σ]
ModelChiSquare2-sig: 0.6%
ModelChiSquareGof-sig: 90.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.398
Centroid-sig: 21.4%
Centroid-so: 0.374 arcsec [1.12σ]
OotOffset-rm: 0.088 arcsec [0.91σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-rm: 0.084 arcsec [0.76σ]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

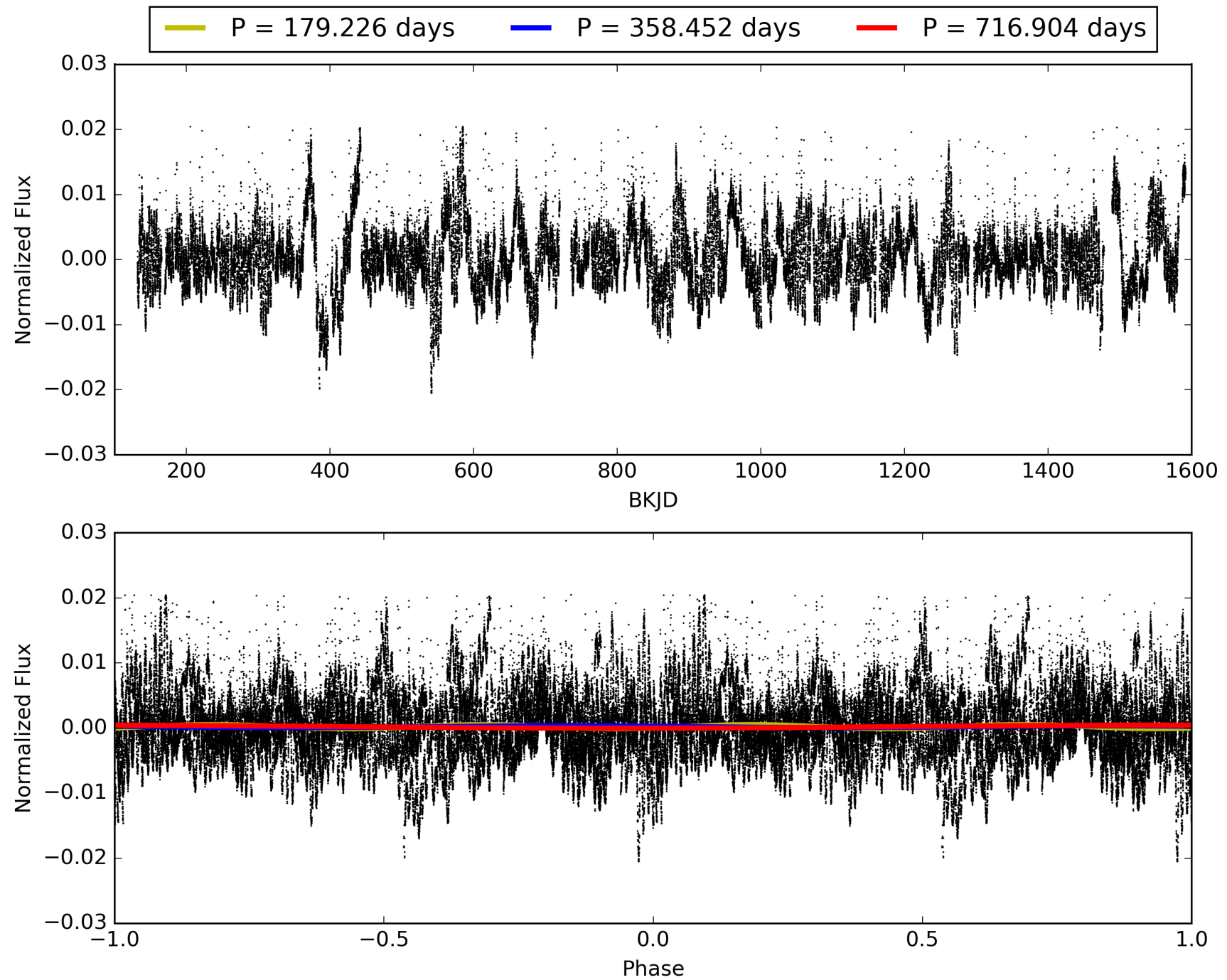
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:10:27 Z

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

TCE 006608436-03, PDC Light Curves

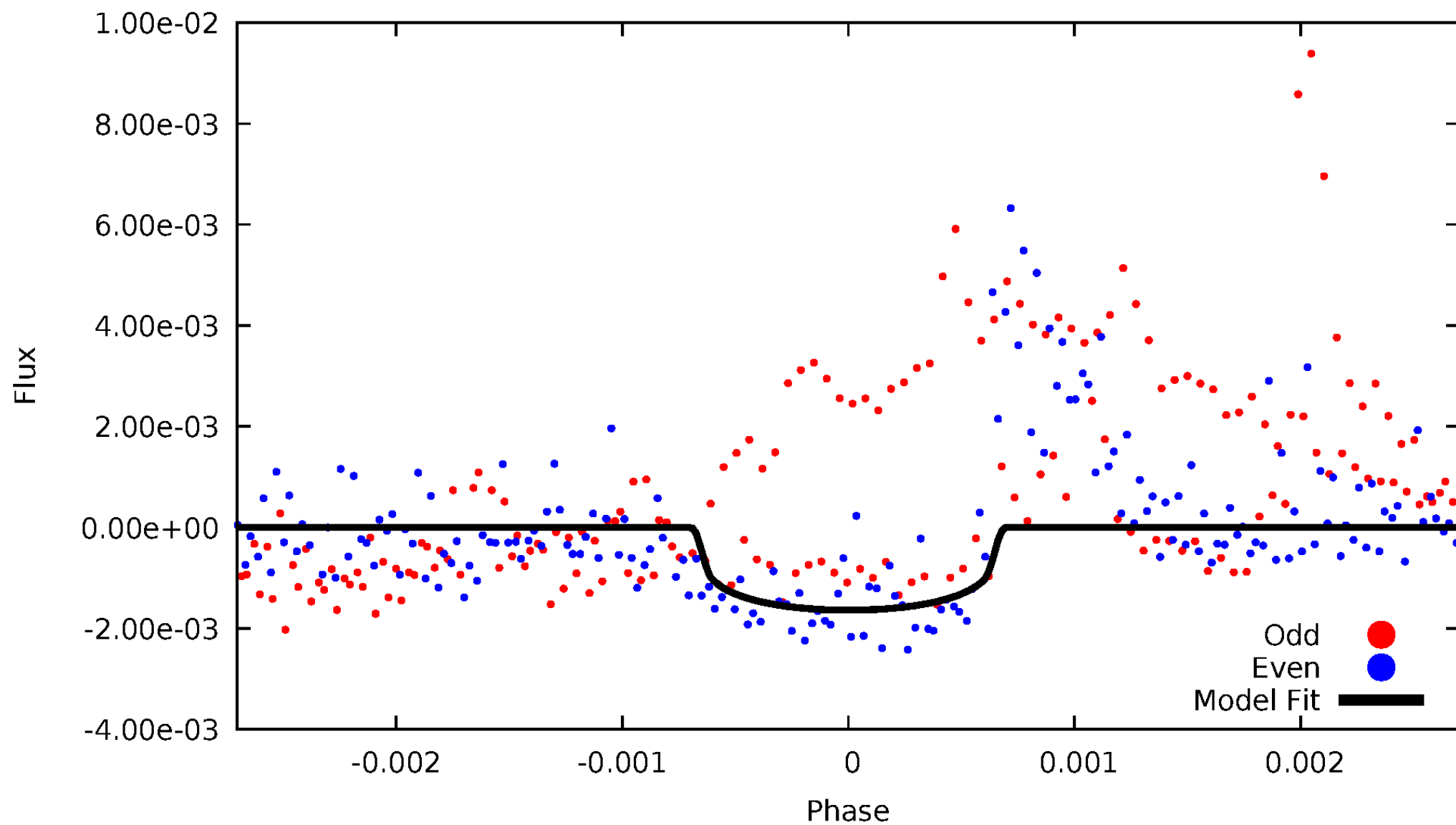


TCE 006608436-03



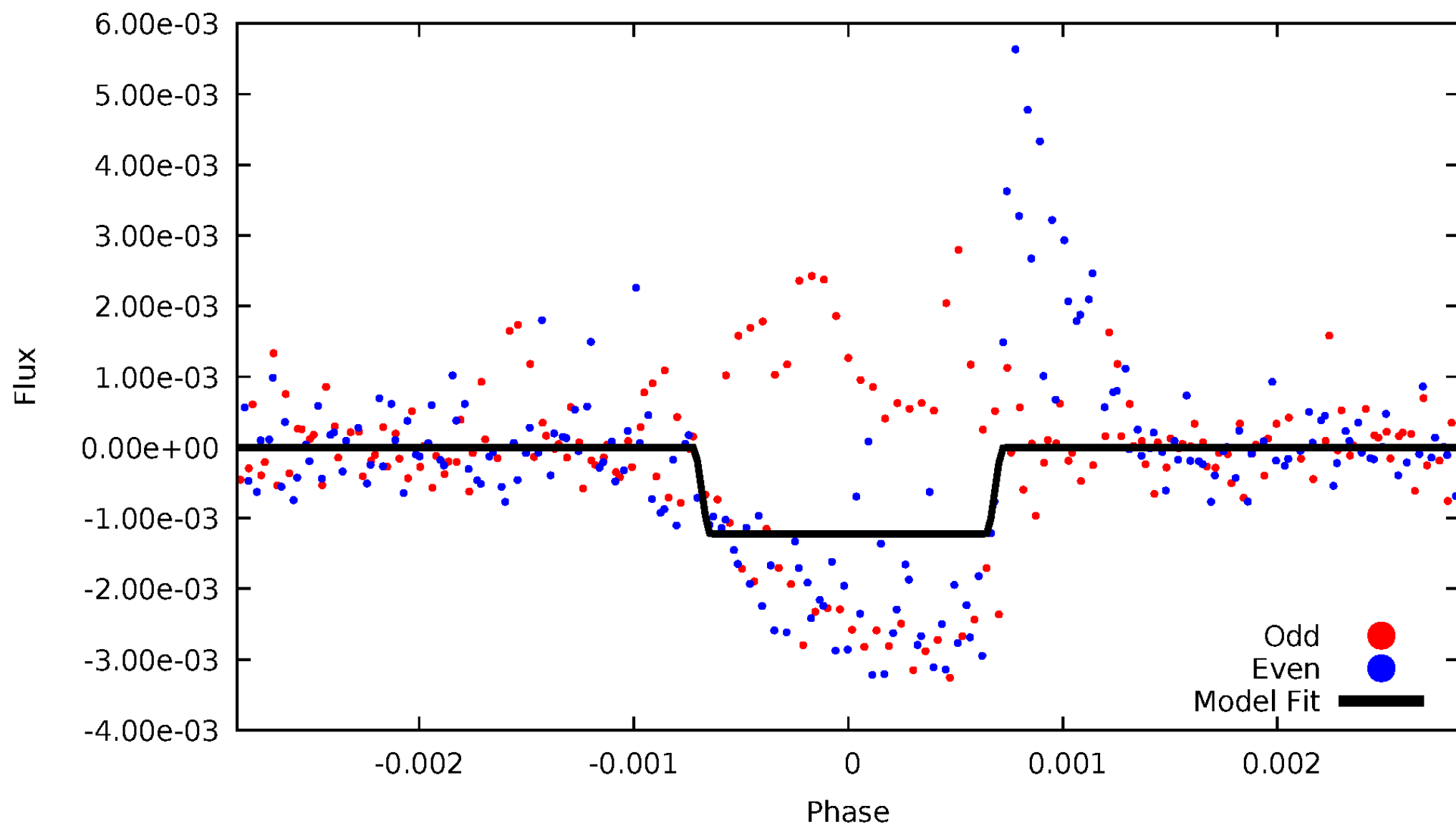
DV Odd/Even

TCE 006608436-03



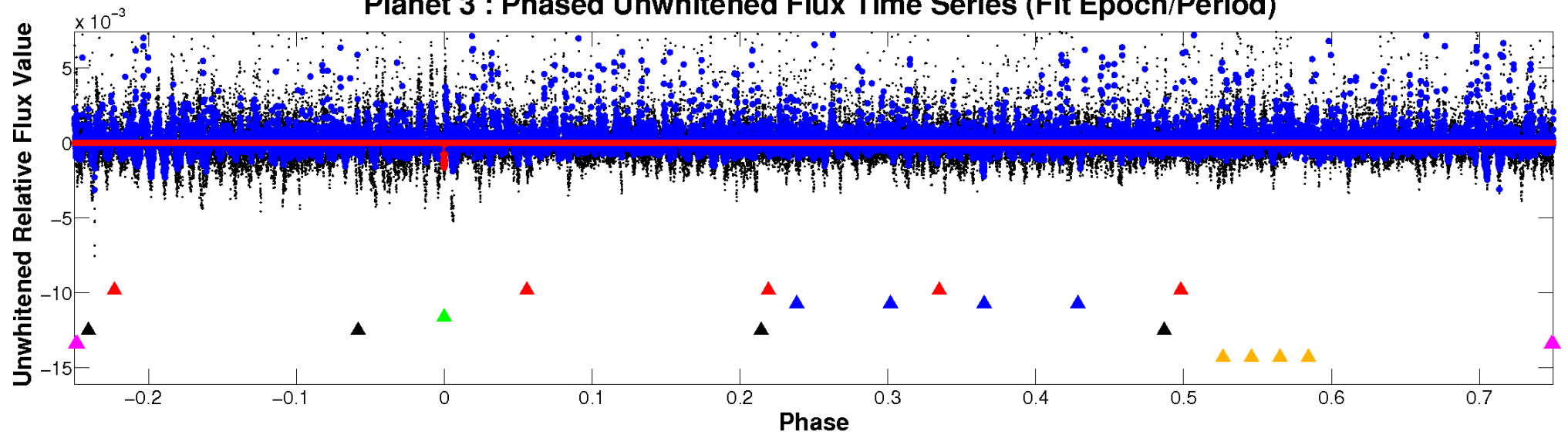
ALT Odd/Even

TCE 006608436-03

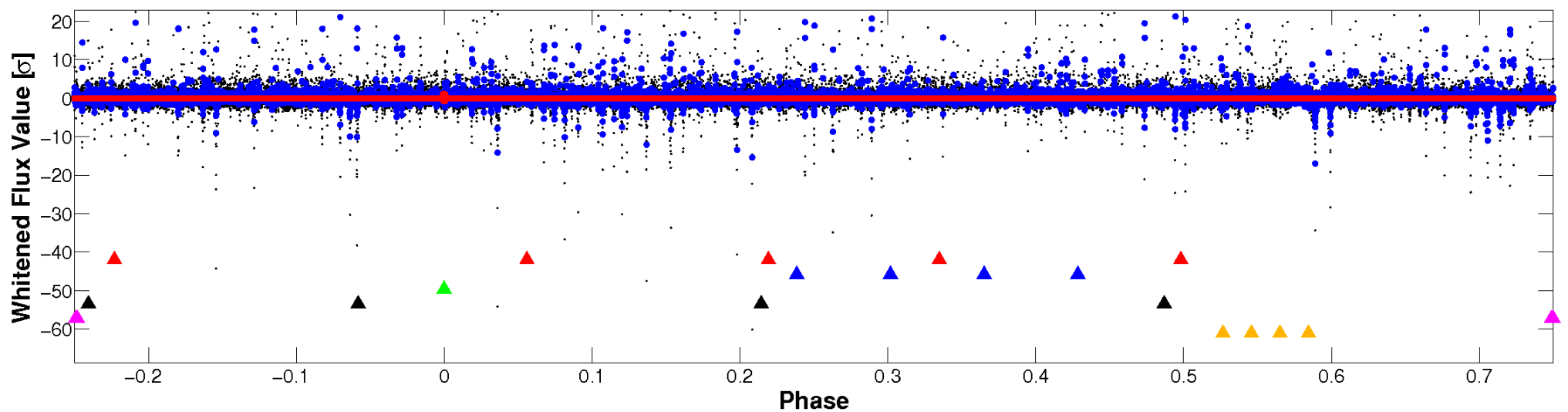


Non-Whitened Vs. Whitened Light Curve

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

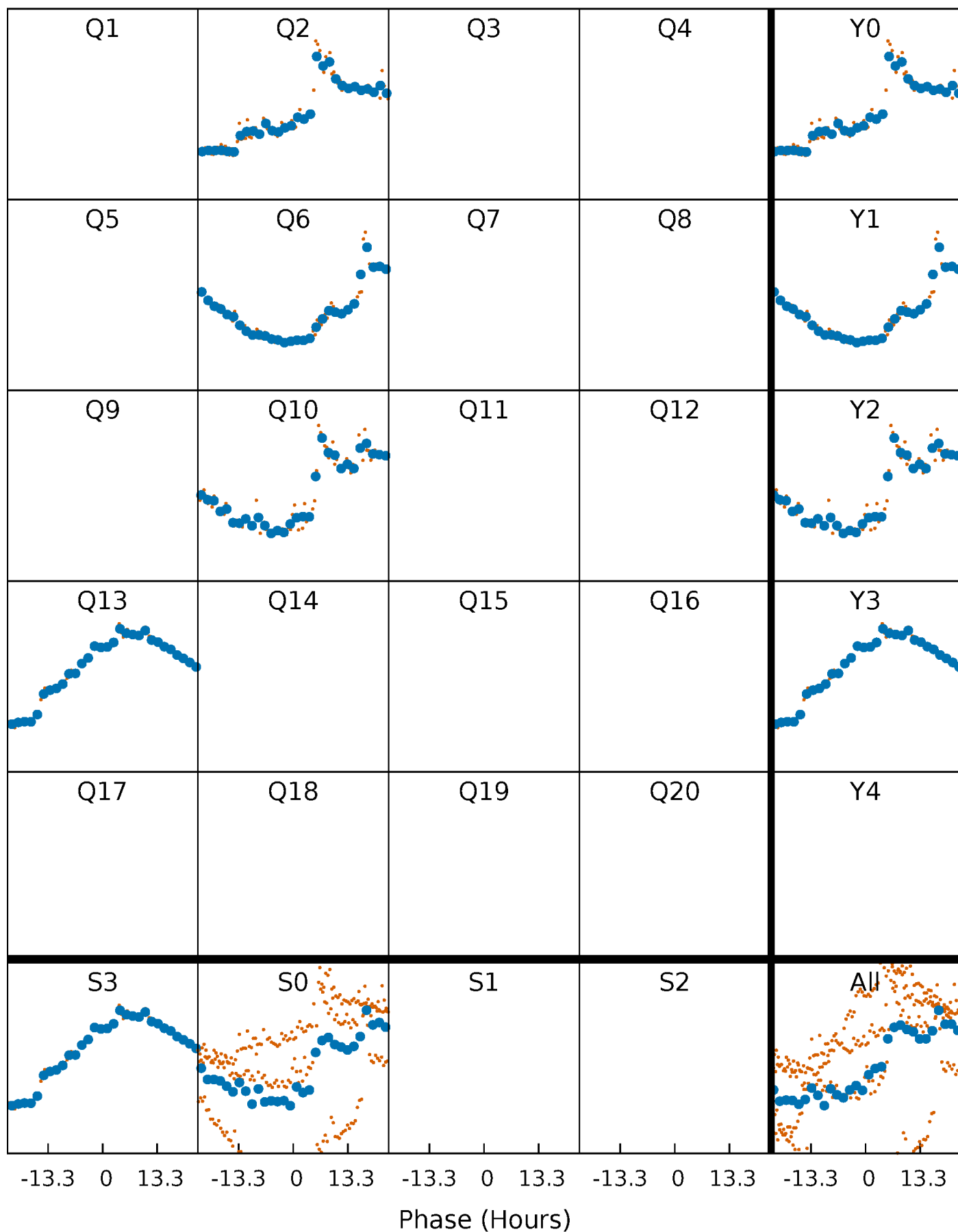


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



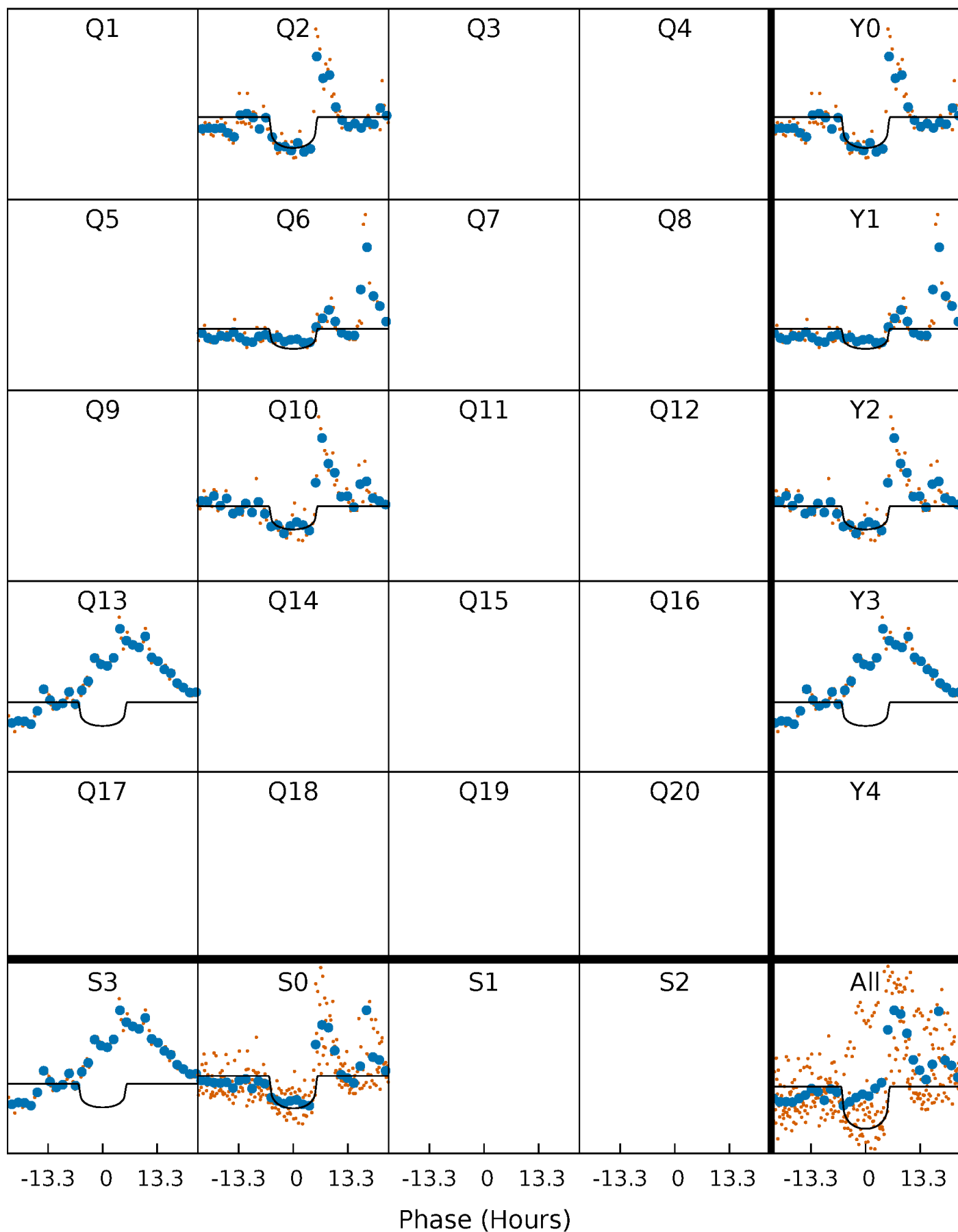
PDC Quarter-Phased Transit Curves

TCE 006608436-03 $P=358.451805$ Days $T_0=192.177670$ (BKJD)



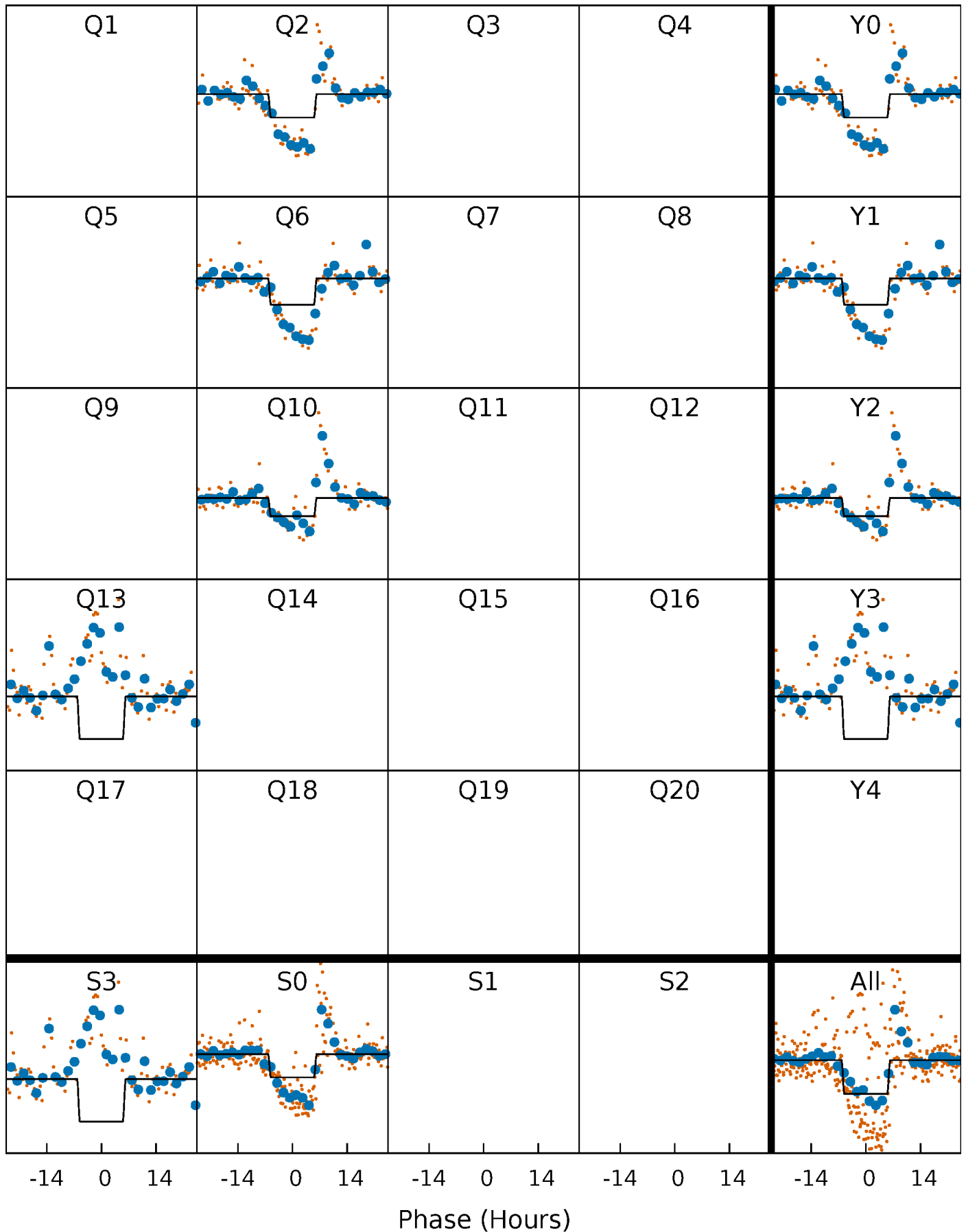
DV Quarter-Phased Transit Curves

TCE 006608436-03 P=358.451805 Days $T_0=192.177670$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

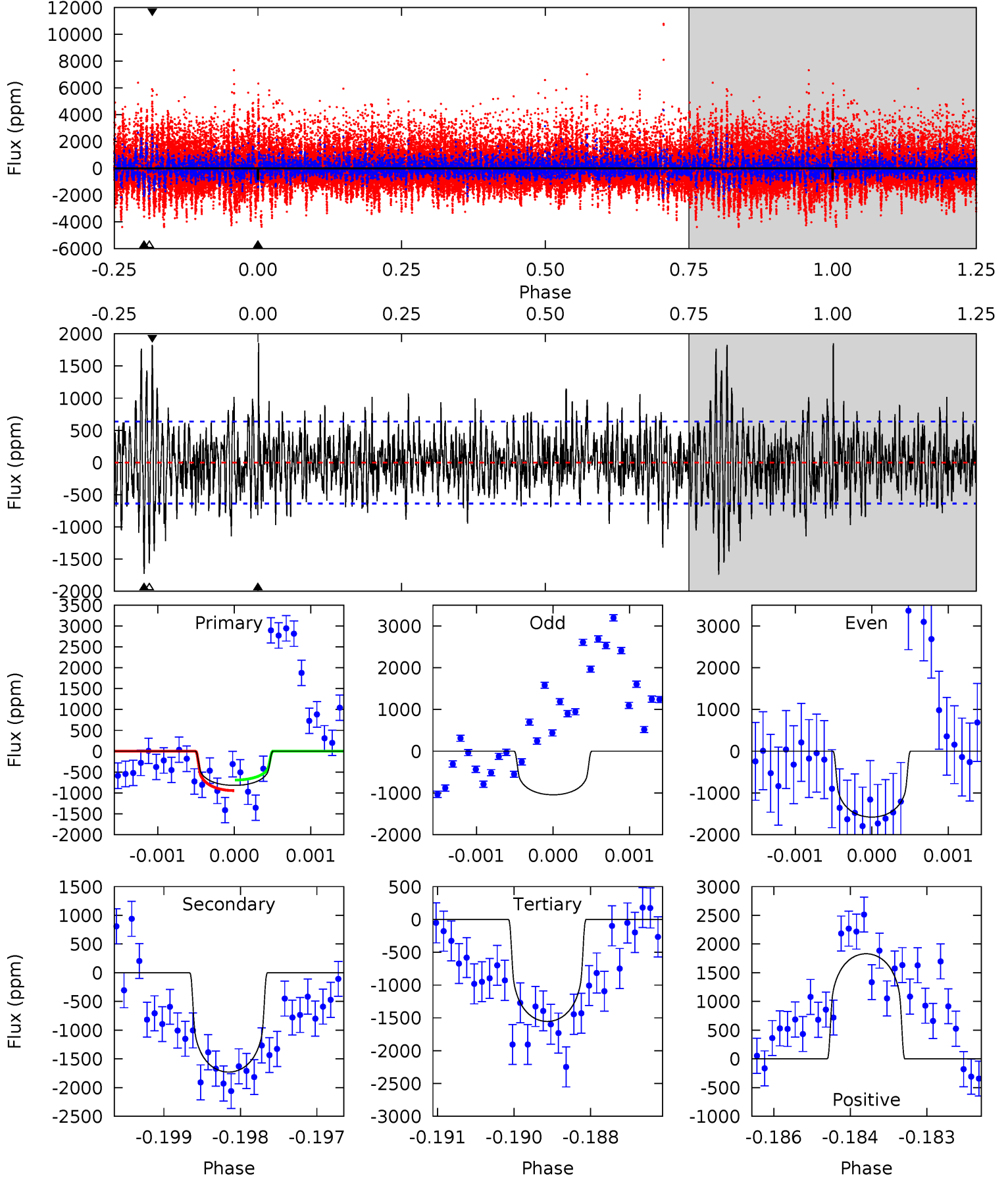
TCE 006608436-03 P=358.459132 Days $T_0=192.141724$ (BKJD)



DV Model-Shift Uniqueness Test

006608436-03, P = 358.451805 Days, E = 192.177670 Days

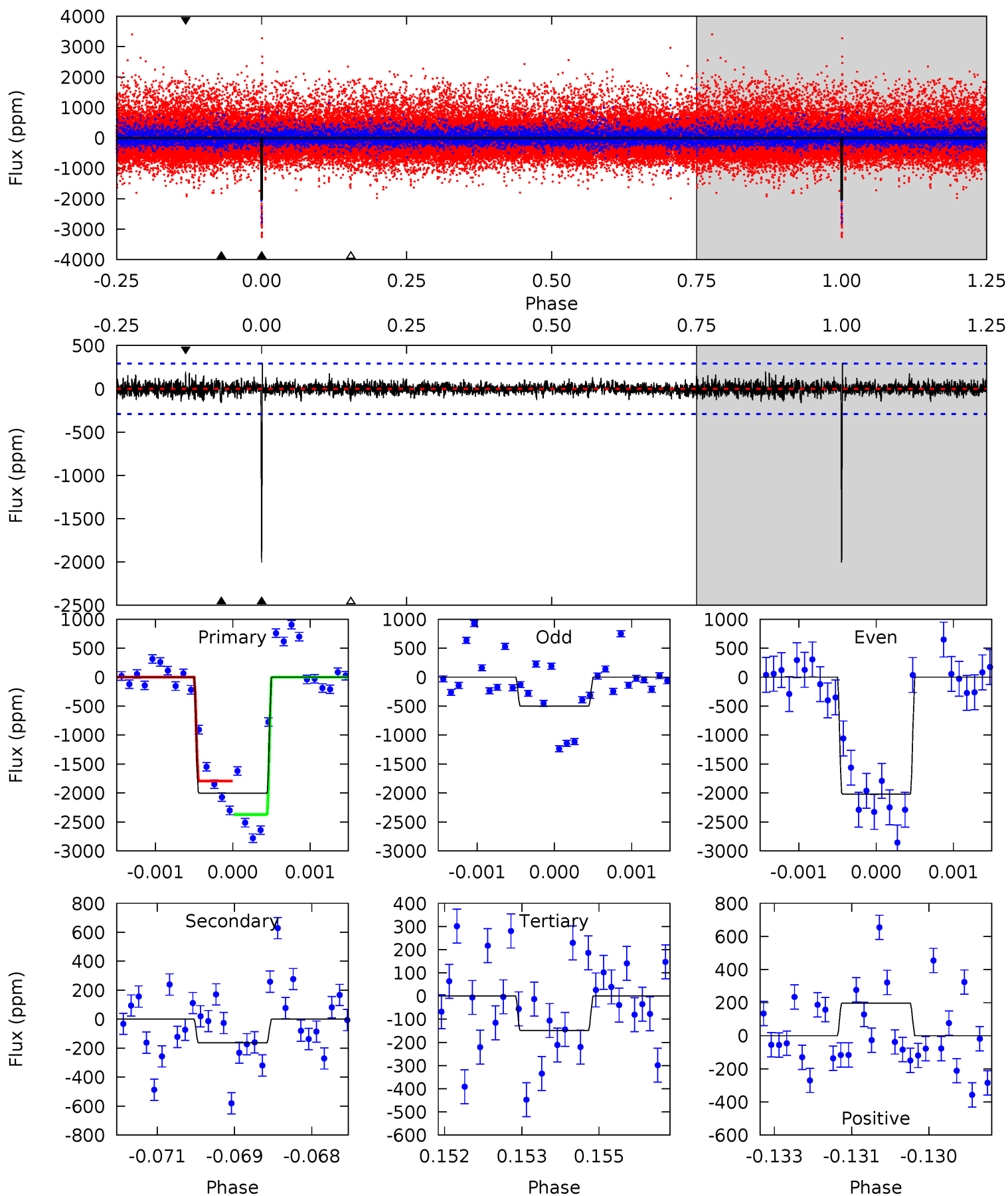
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.93	14.6	13.2	15.5	5.39	3.20	3.28	-6.23	-8.57	1.48	-0.86	1.99	0.21	0.52	1.08



Alt Model-Shift Uniqueness Test

006608436-03, P = 358.459132 Days, E = 192.141724 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
36.9	3.01	2.74	3.63	5.39	3.19	0.71	34.2	33.3	0.28	-0.62	15.1	0.64	0.13	5.32



Stellar Parameters For KIC 006608436

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5295^{+158}_{-142}	$4.530^{+0.099}_{-0.072}$	$-0.460^{+0.300}_{-0.300}$	$0.756^{+0.098}_{-0.088}$	$0.707^{+0.103}_{-0.044}$	$2.299^{+0.937}_{-0.561}$
	+3%/-3%	+2%/-2%	+65%/-65%	+13%/-12%	+15%/-6%	+41%/-24%
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 006608436-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1730 ± 118	$3.11^{+1.28}_{-1.34}$	301^{+14}_{-13}	5569^{+1806}_{-791}	$79440^{+157604}_{-41440}$
Alt.	-164 ± 54	$2.78^{+1.49}_{-1.16}$	302^{+14}_{-12}	3639^{+832}_{-453}	8855^{+19288}_{-5255}

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

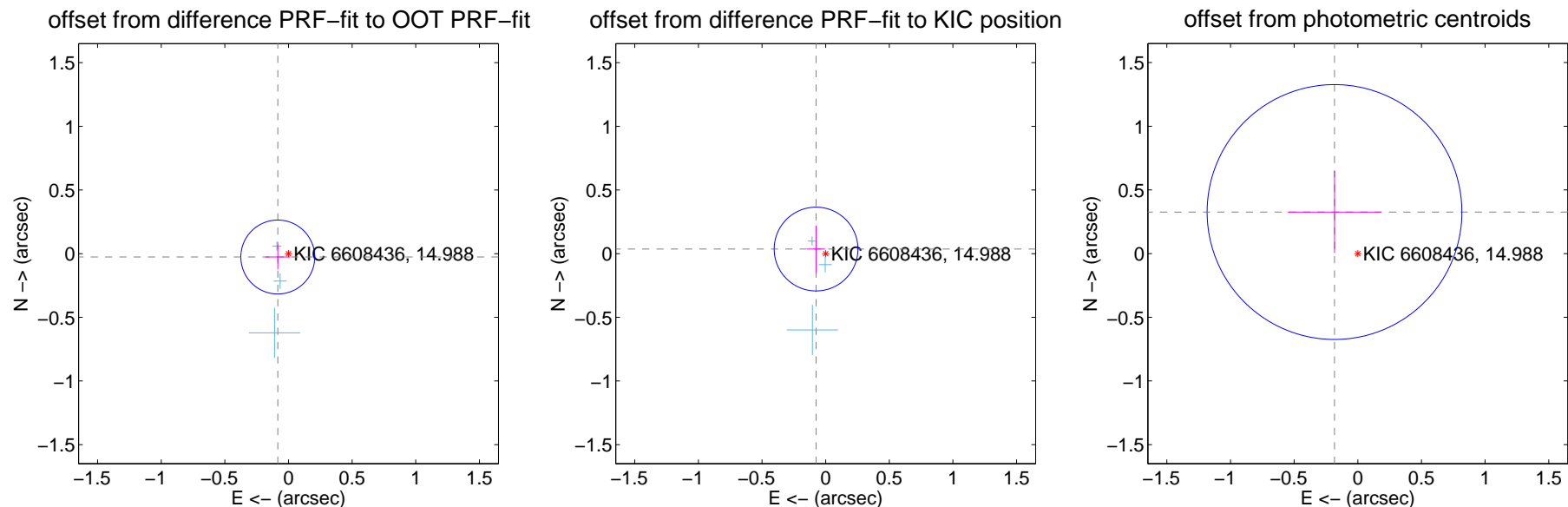
DV Centroid Data

Supplemental centroid analysis for 006608436-03. Kepler magnitude: 14.99. Transit SNR 7.53

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.088 ± 0.097	0.91	0.084 ± 0.097	-0.026 ± 0.097
PRF-fit source offset from KIC position	0.084 ± 0.110	0.76	0.075 ± 0.071	0.036 ± 0.184
photometric centroid source offset	0.37 ± 0.33	1.12	0.18 ± 0.37	0.33 ± 0.32



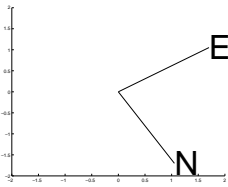
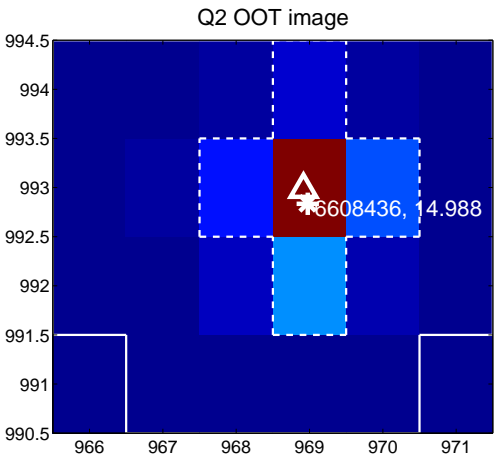
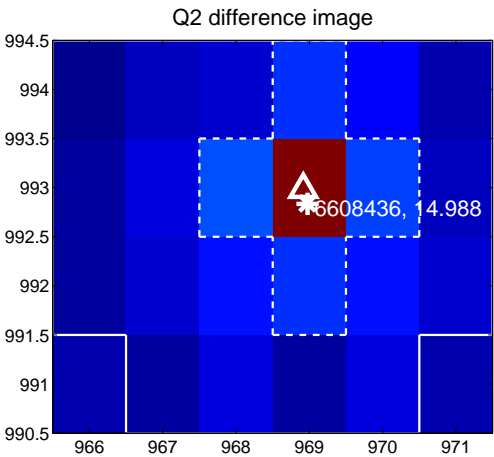
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

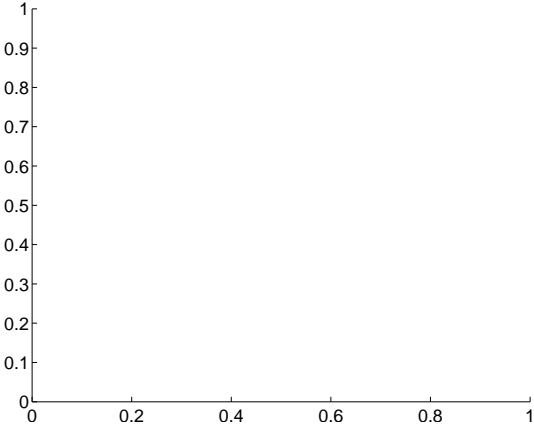
Q1 no difference image



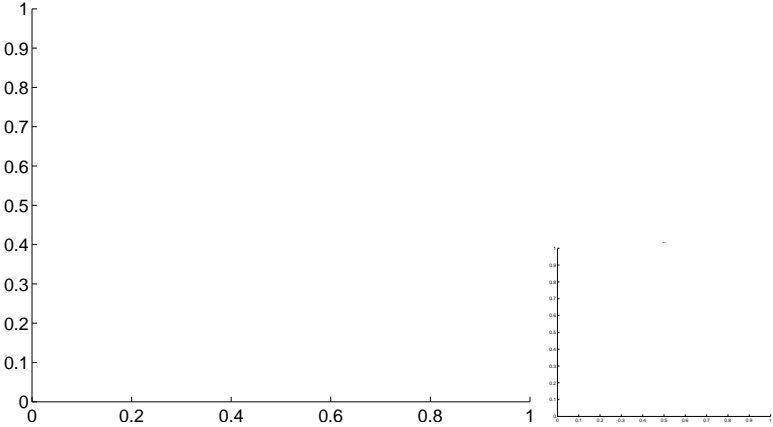
Q1 no OOT image



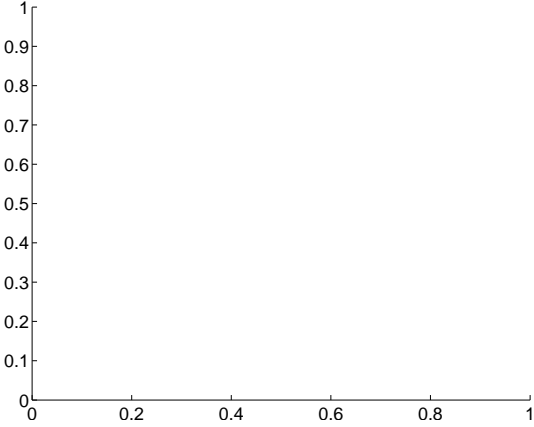
Q3 no difference image



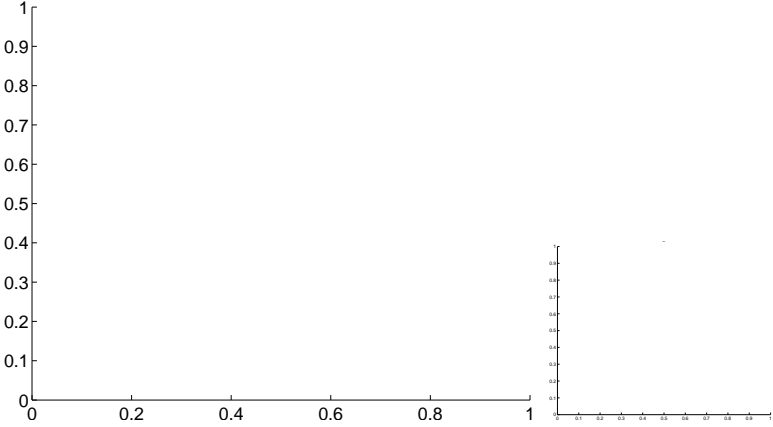
Q3 no OOT image



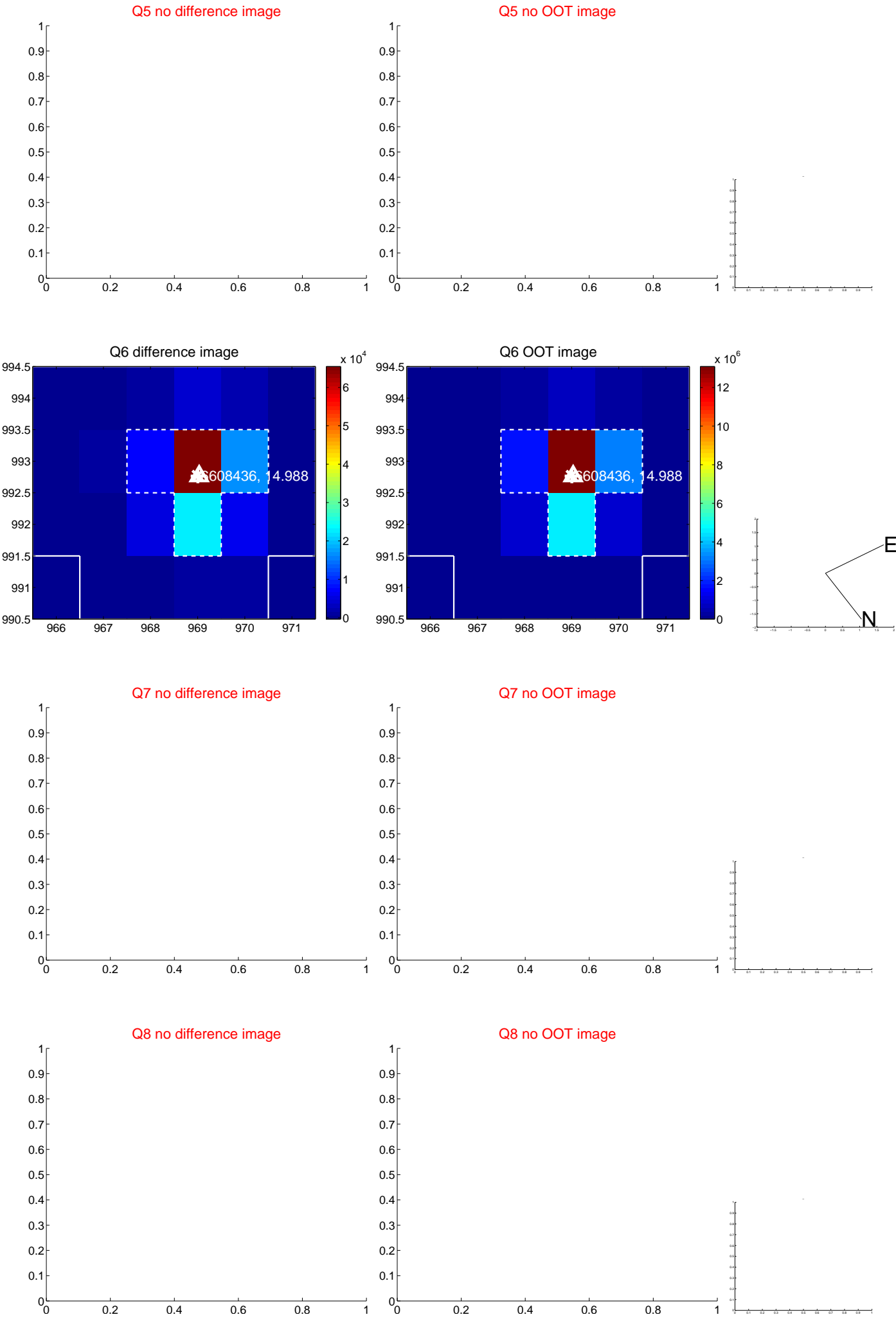
Q4 no difference image



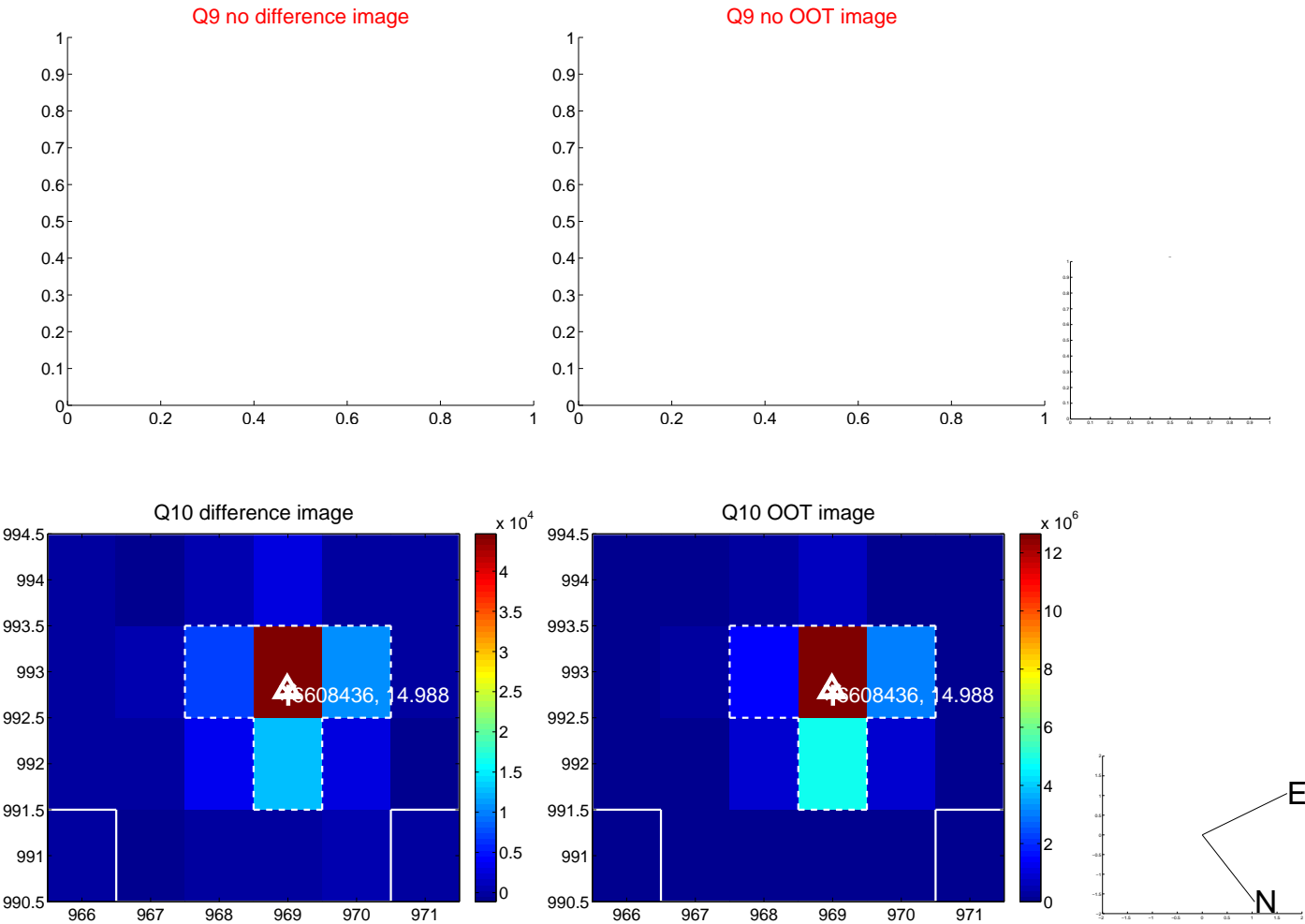
Q4 no OOT image



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.



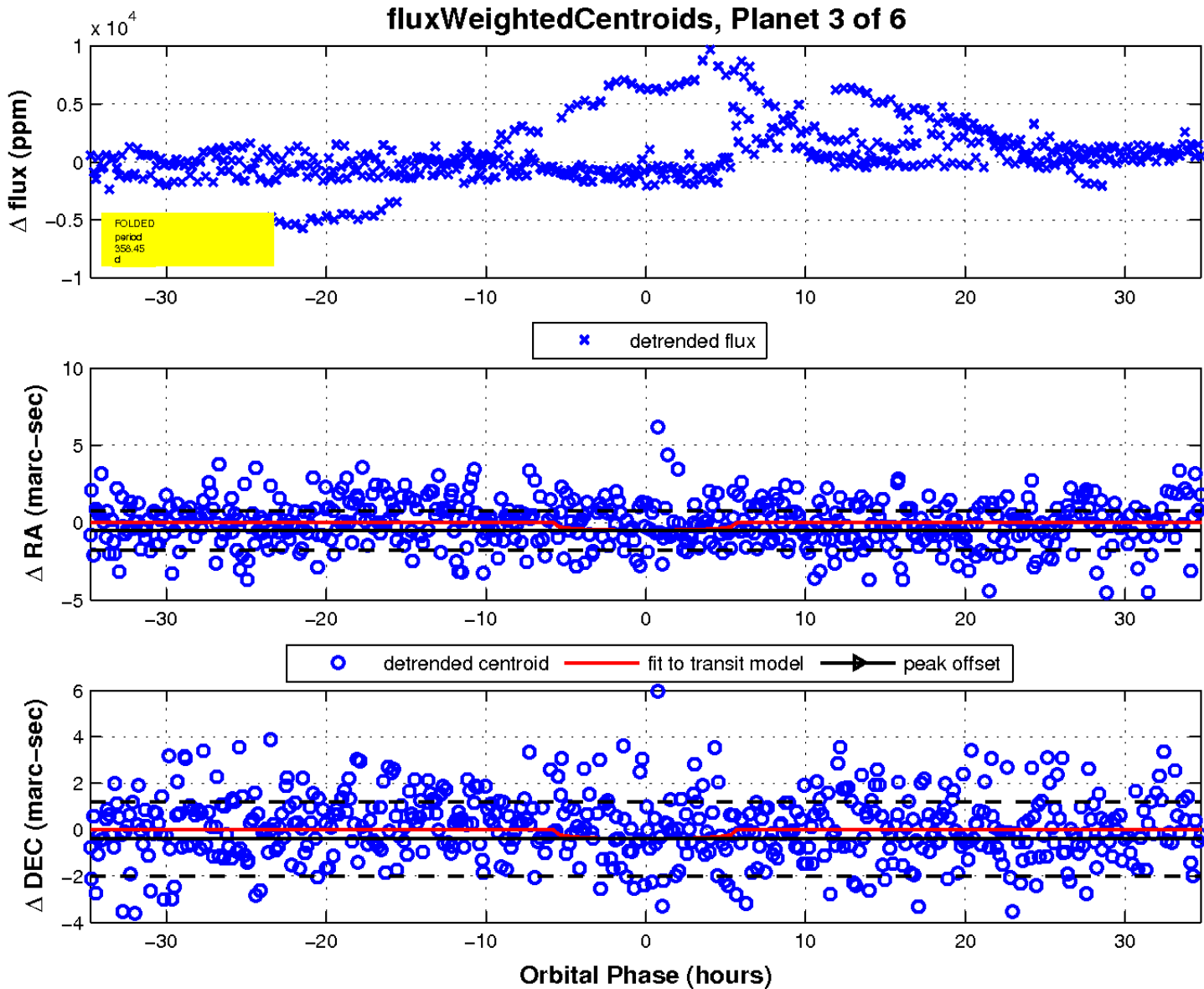
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



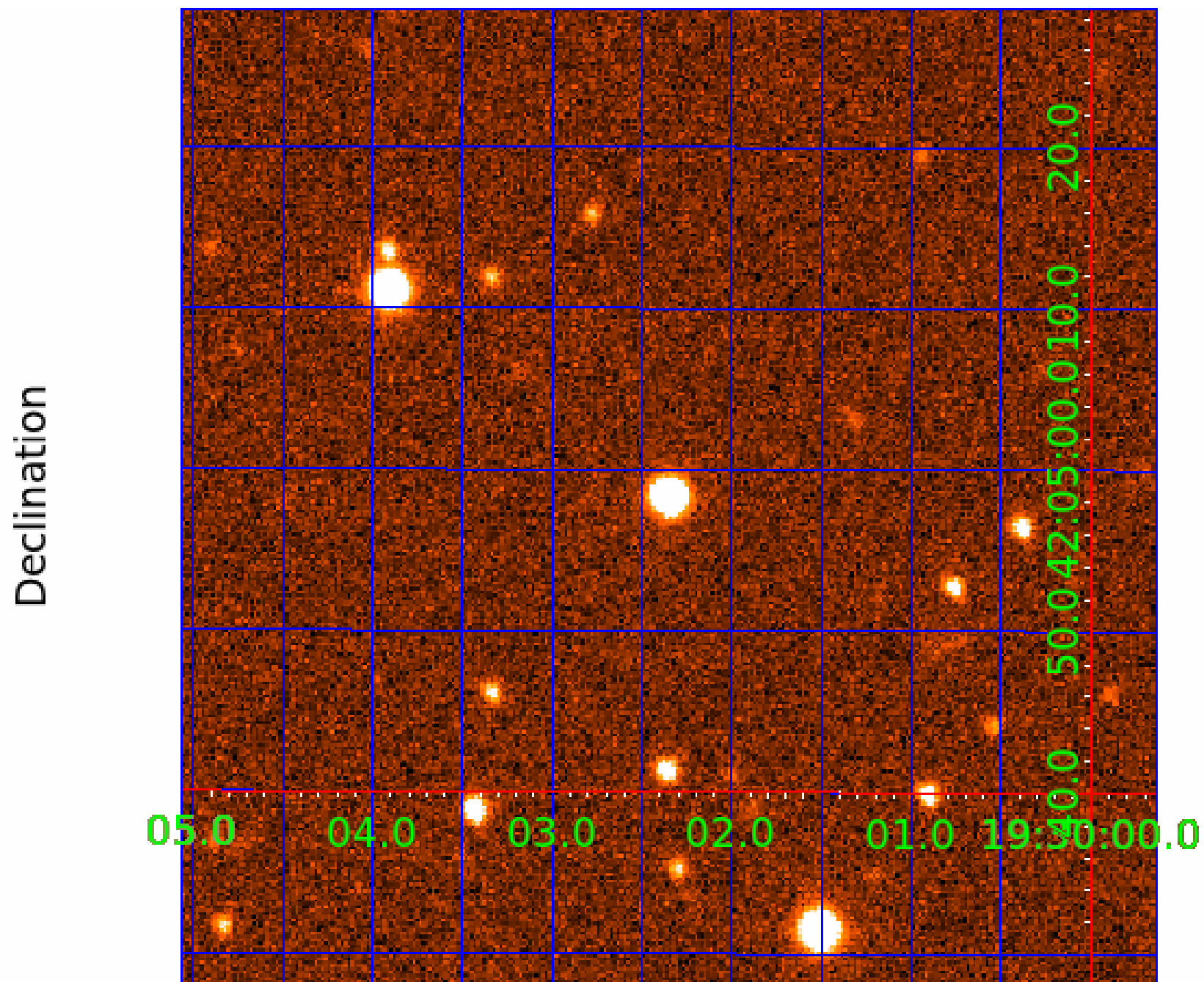
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

Q17 no difference image

Q17 no OOT image



UKIRT Image



KIC 006608436

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})
006608436-01	OBS	No	258.482480	312.195418	1795.8	7.827	14.8	7.1	0.76	5295	6.20	0.80
006608436-02	OBS	No	335.738702	345.781516	2759.6	12.063	15.5	11.2	0.76	5295	3.90	0.57
006608436-03	OBS	No	358.451805	192.177670	1640.7	11.628	14.0	7.5	0.76	5295	3.01	0.52
006608436-05	OBS	No	358.820005	460.607701	1860.1	4.946	12.5	9.4	0.76	5295	3.31	0.52
006608436-06	OBS	No	365.352053	380.963894	994.5	7.500	13.5	-1.0	0.76	5295	2.34	0.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006608436-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006608436-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS
006608436-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

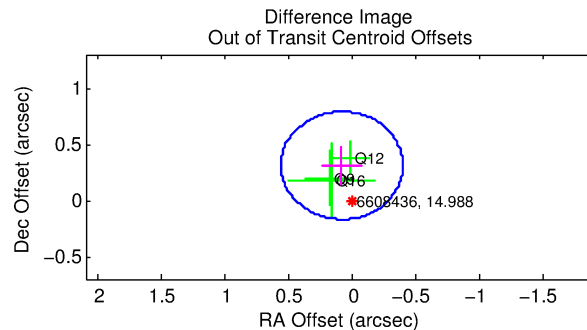
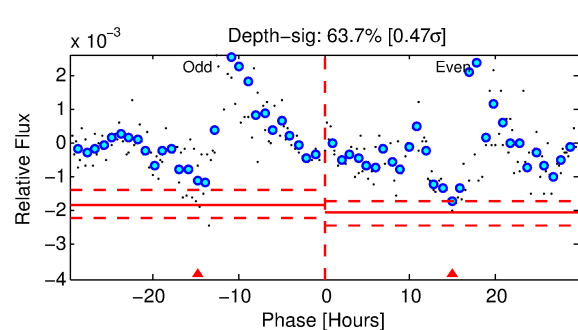
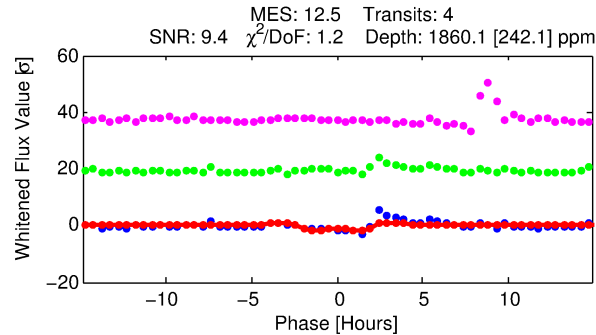
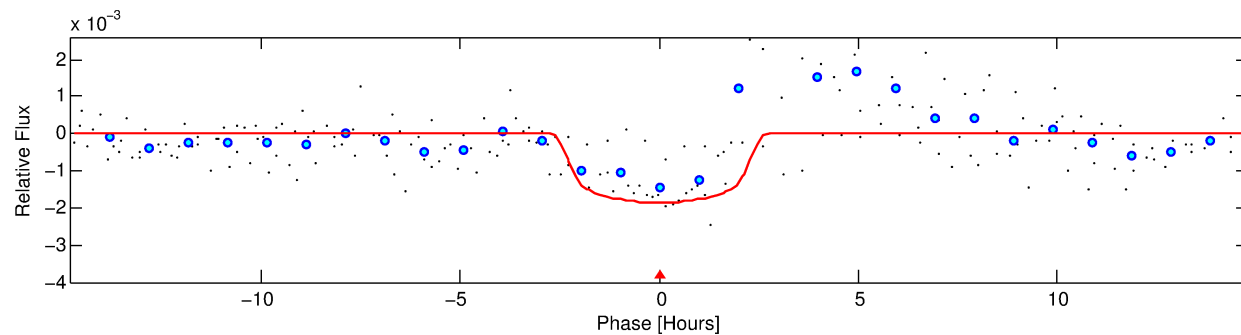
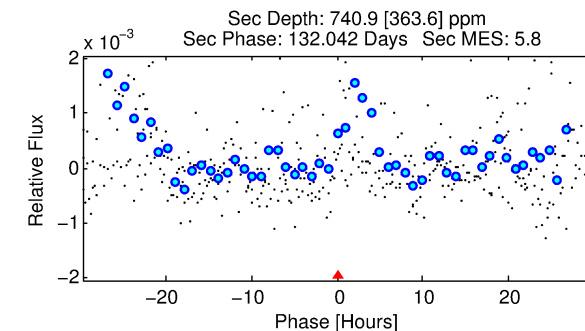
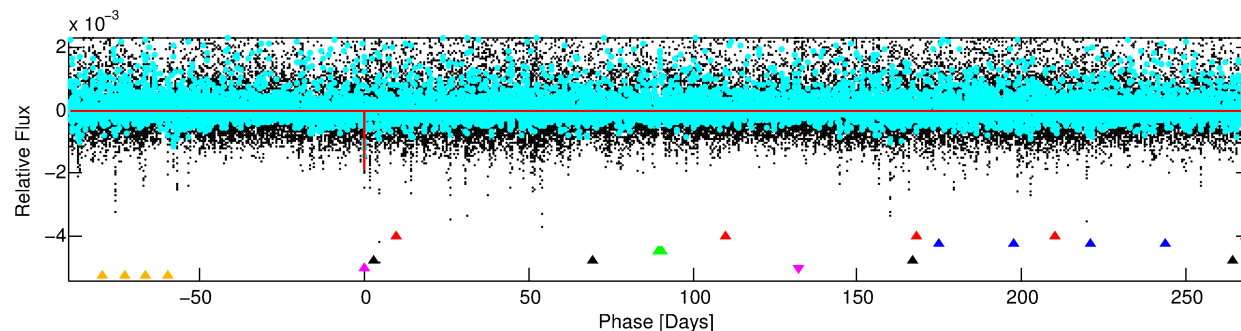
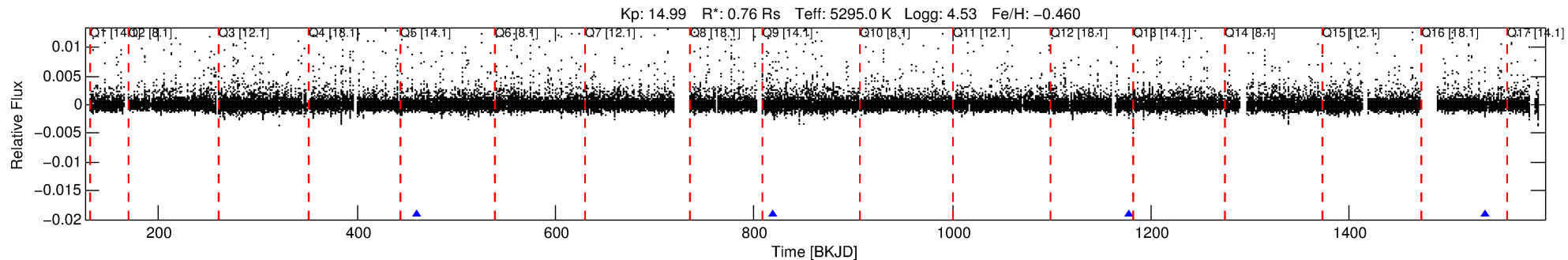
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006608436-05

No Significant Match Found

DV One-Page Summary

KIC: 6608436 Candidate: 5 of 6 Period: 358.820 d



DV Fit Results:

Period = 358.82000 [0.00304] d
Epoch = 460.6077 [0.0063] BKJD
Rp/R* = 0.0401 [0.0225]
a/R* = 511.60 [1119.27]
b = 0.48 [3.54]
Seff = 0.52 [0.11]
Teq = 216 [11] K
Rp = 3.31 [1.90] Re
a = 0.8803 [0.1013] AU
Ag = 28882.84 [35682.36] [0.81σ]
Teff = 4363 [1340] K [3.09σ]

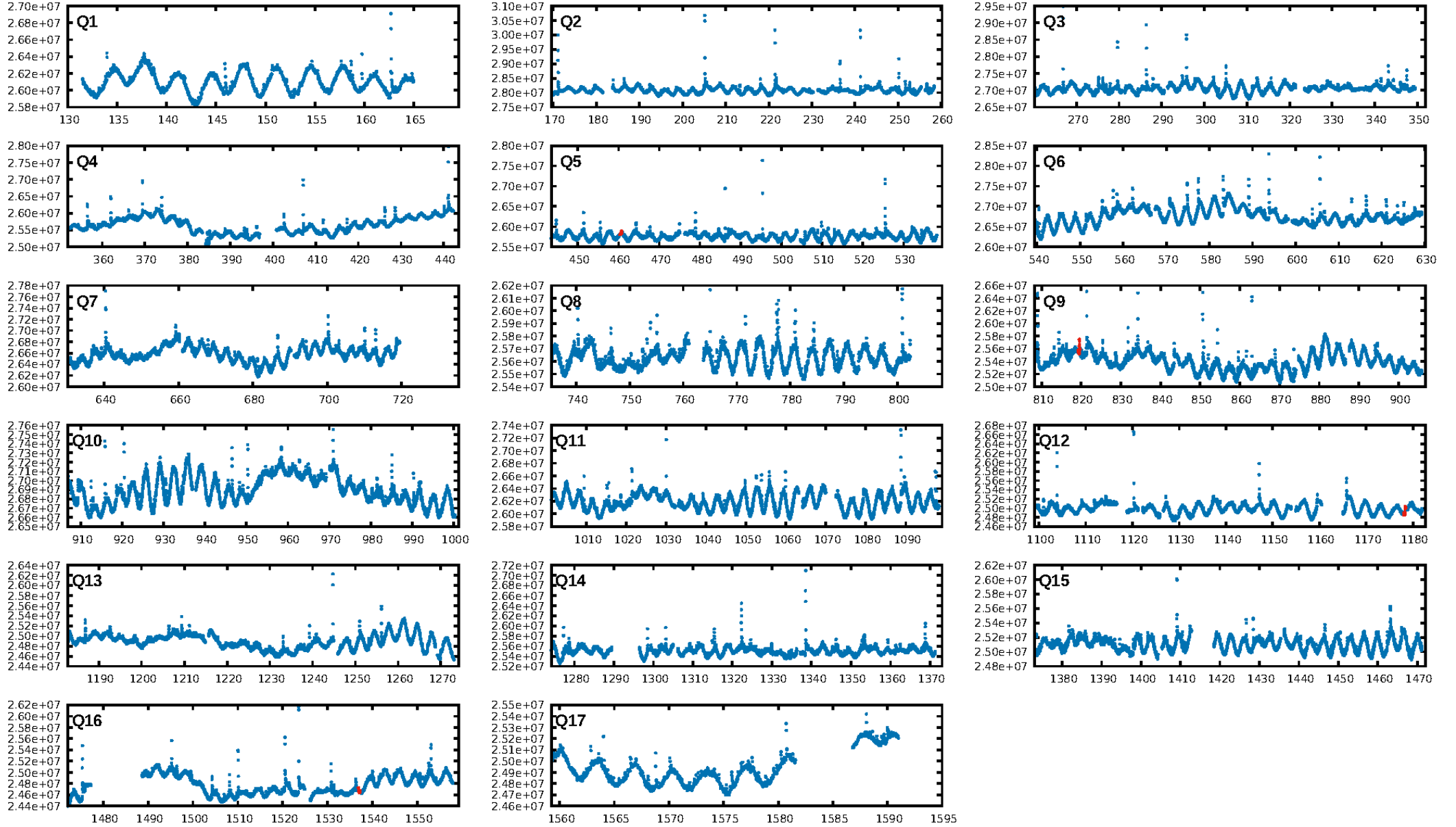
DV Diagnostic Results:

ShortPeriod-sig: 51.6% [0.70σ]
LongPeriod-sig: 100.0% [17.45σ]
ModelChiSquare2-sig: 2.7%
ModelChiSquareGof-sig: 98.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 31
Centroid-sig: 0.6%
Centroid-so: 0.648 arcsec [1.71σ]
OotOffset-rm: 0.322 arcsec [2.01σ]
KicOffset-rm: 0.278 arcsec [1.74σ]
OotOffset-st: 0/0/2/1 [3]
KicOffset-st: 0/0/2/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [4/4]

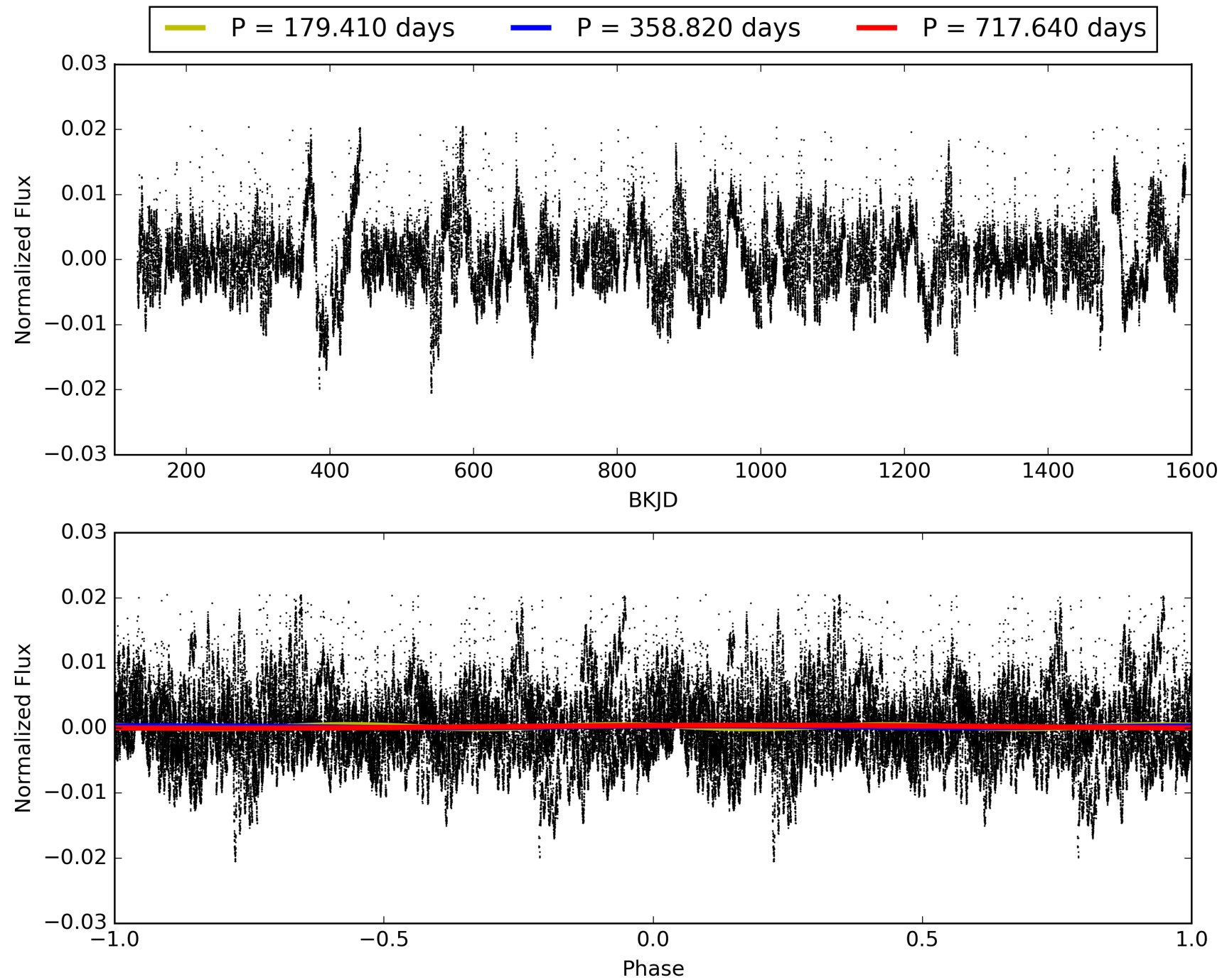
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:10:51 Z

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

TCE 006608436-05, PDC Light Curves

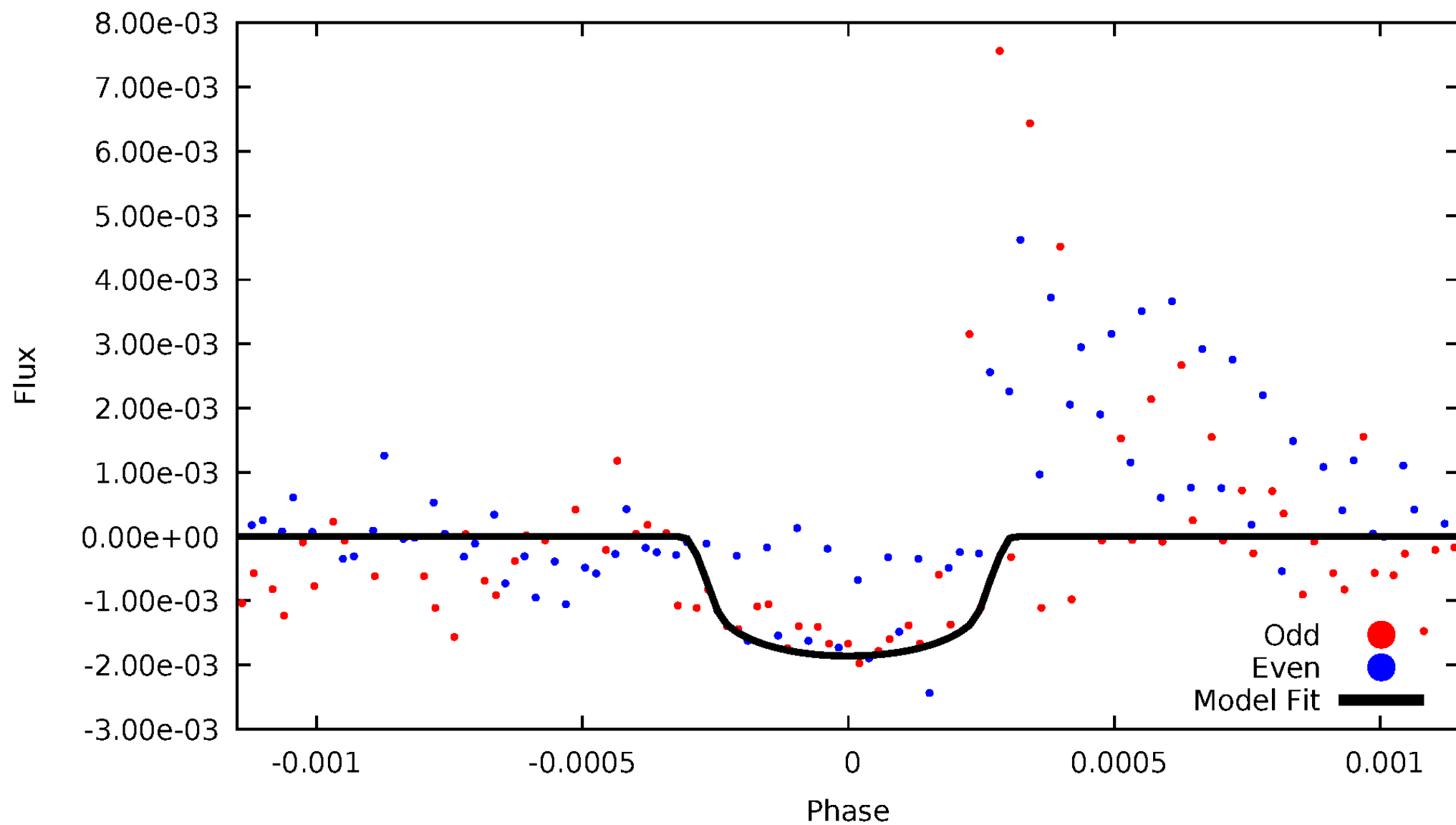


TCE 006608436-05



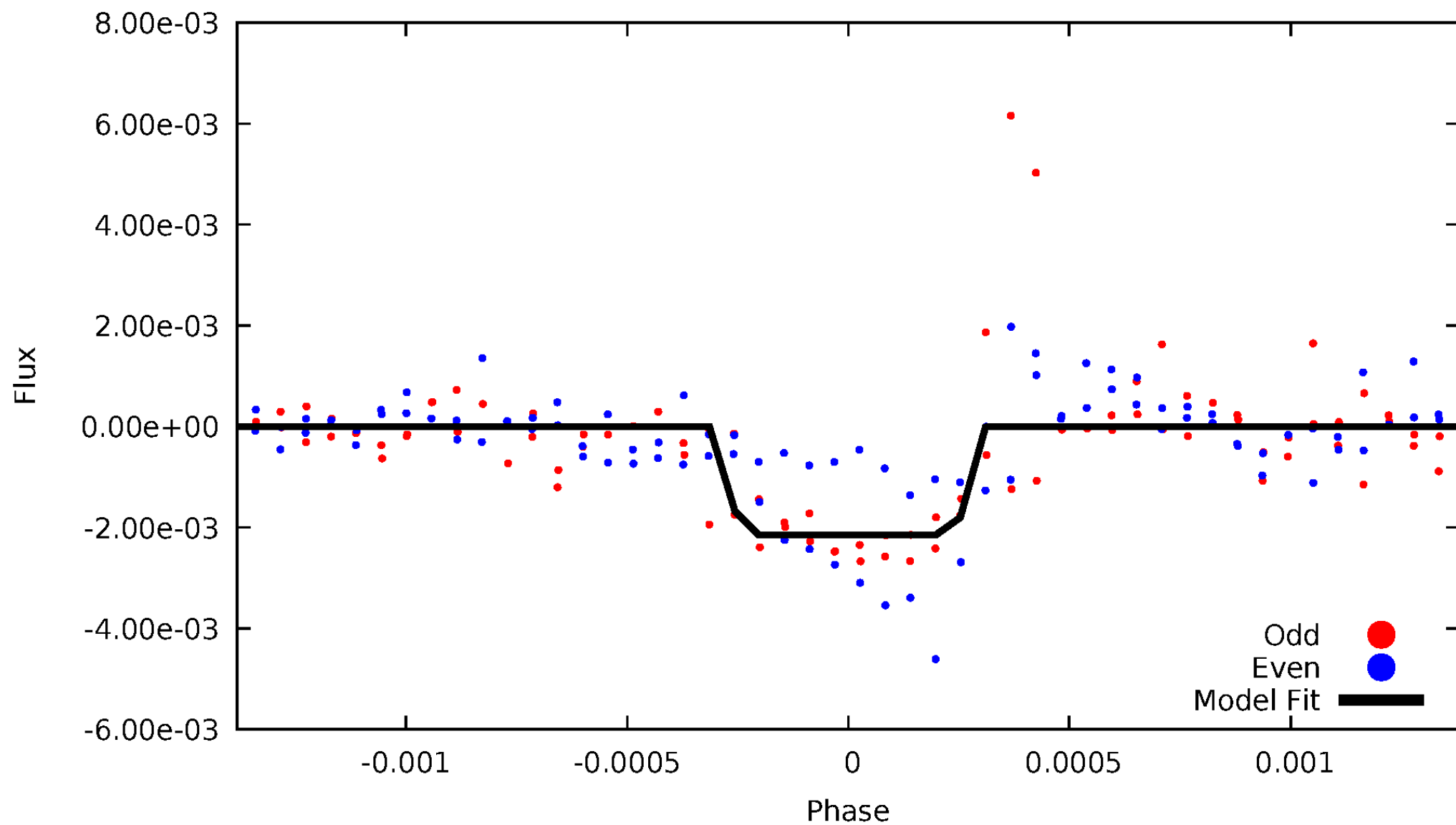
DV Odd/Even

TCE 006608436-05



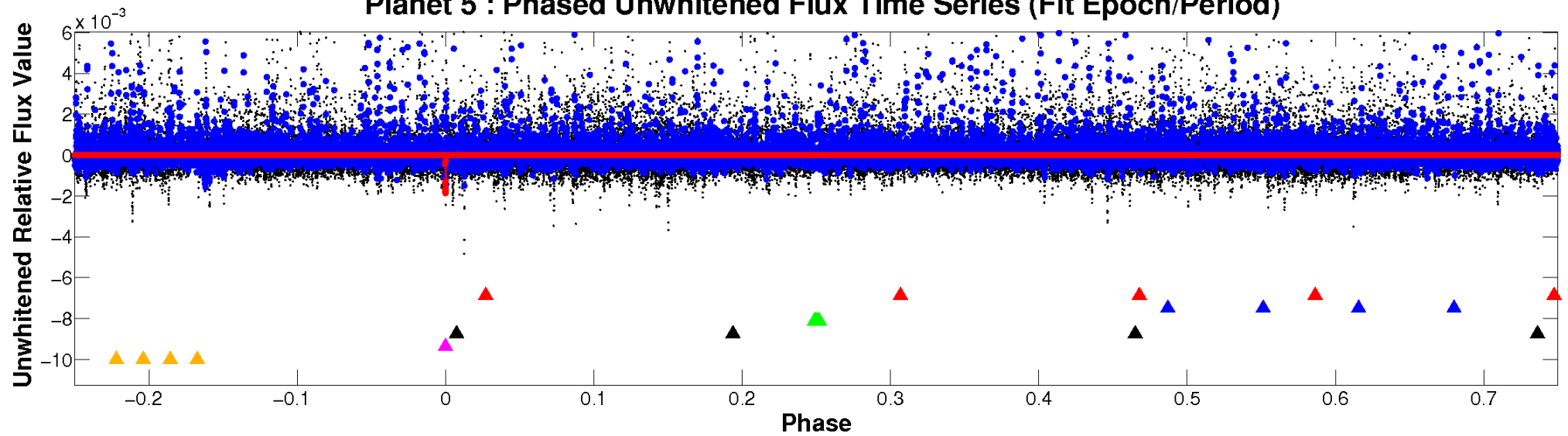
ALT Odd/Even

TCE 006608436-05

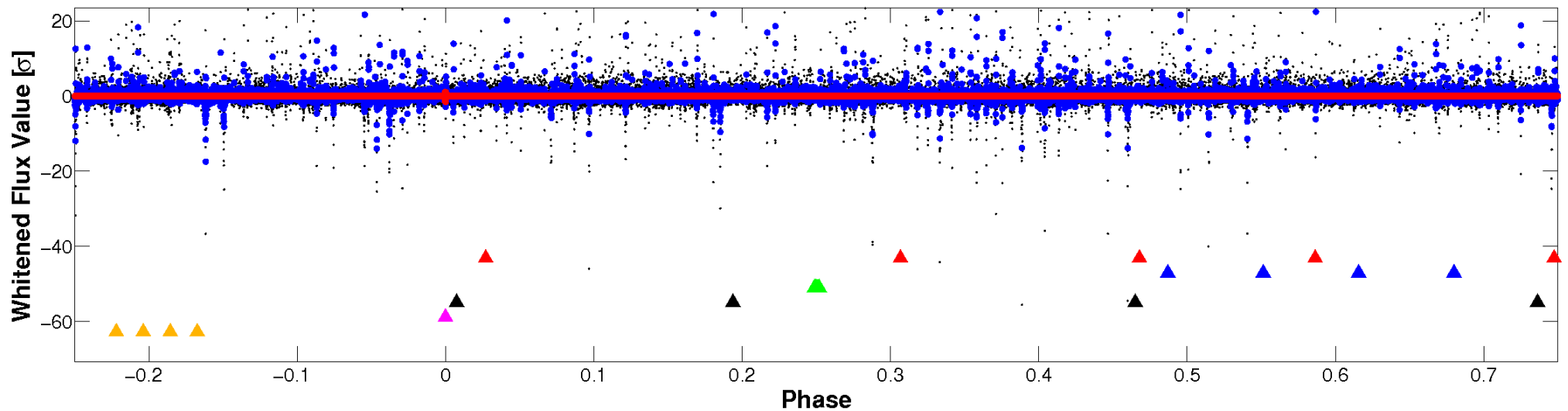


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

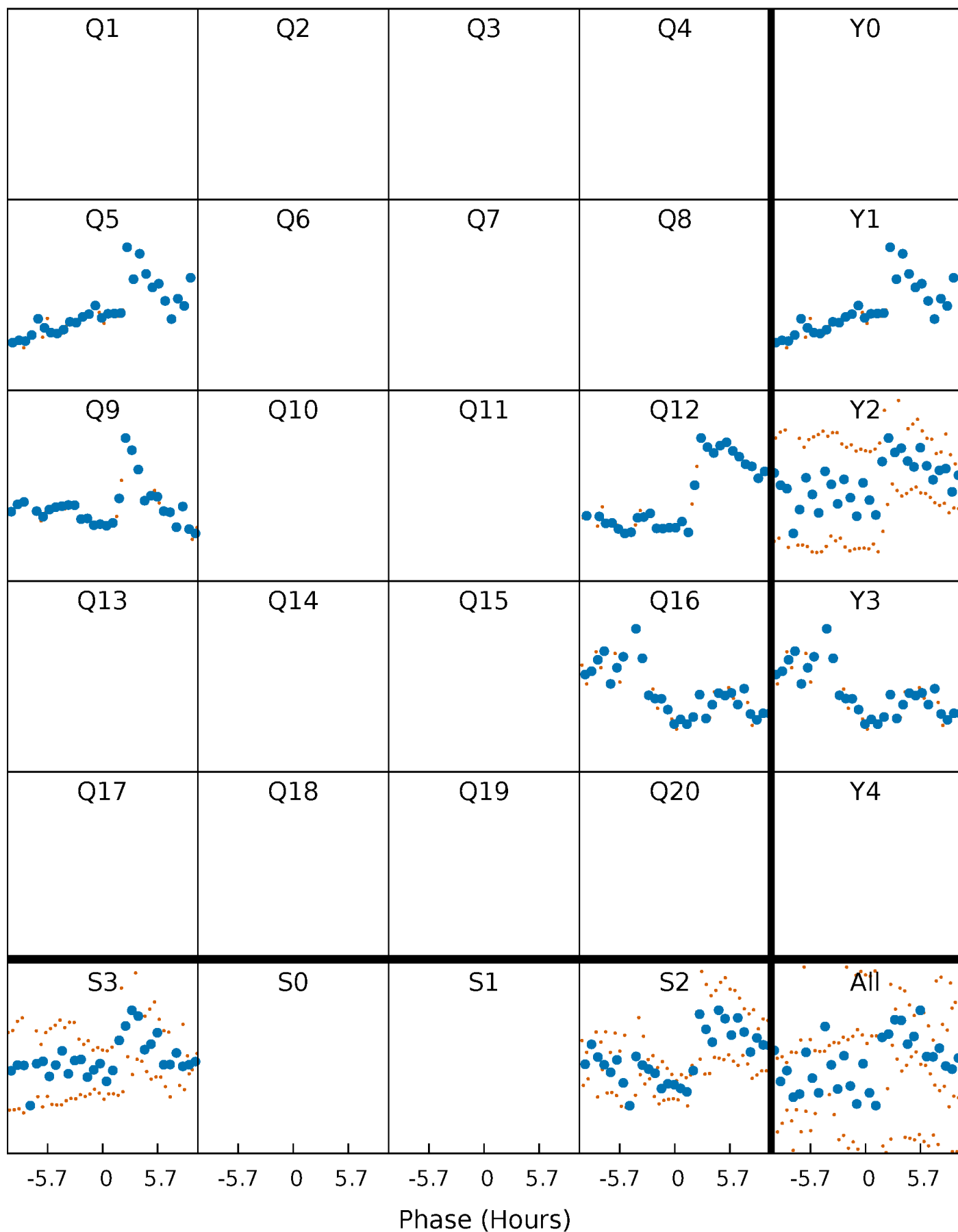


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 006608436-05 $P=358.820005$ Days $T_0=460.607701$ (BKJD)



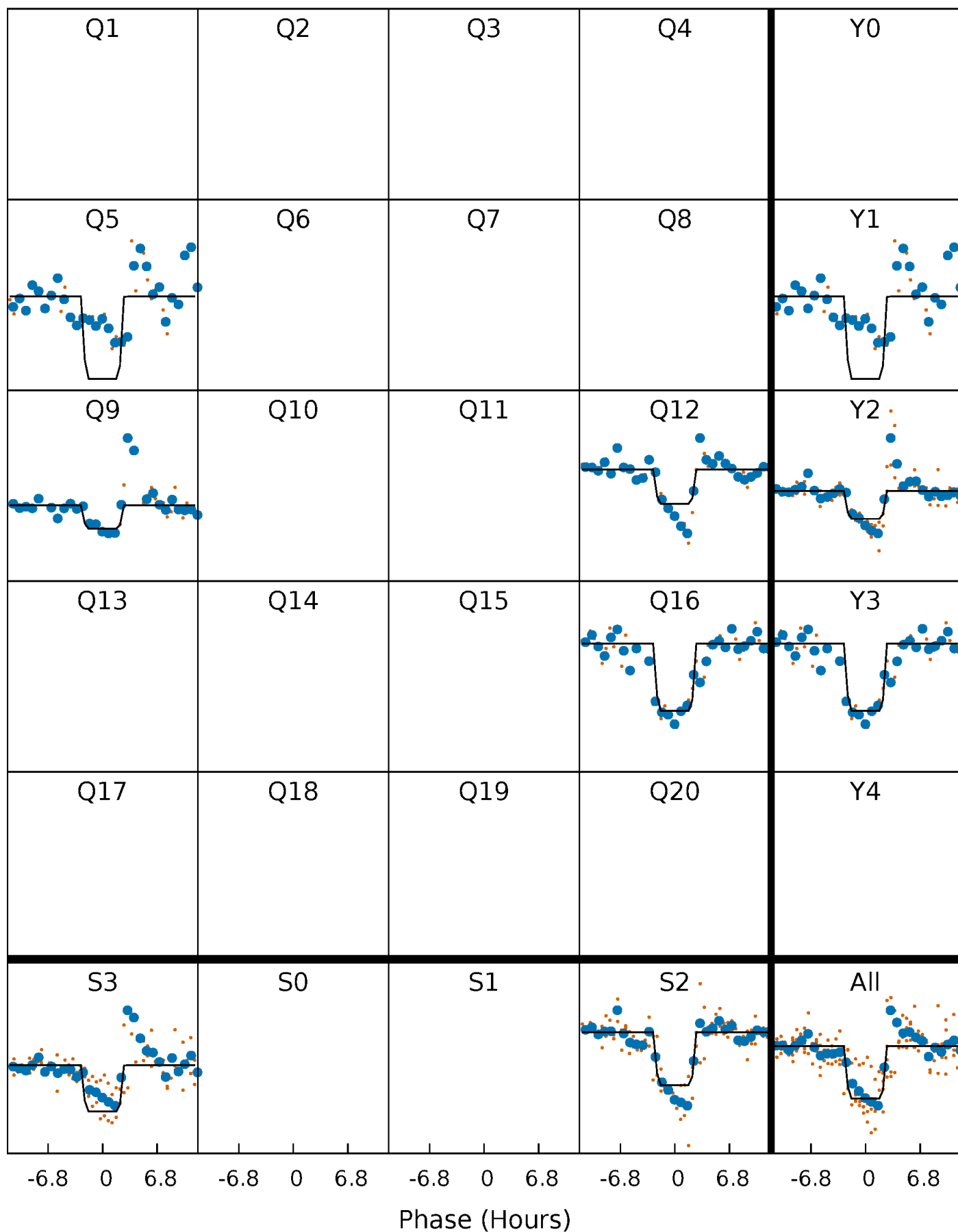
DV Quarter-Phased Transit Curves

TCE 006608436-05 $P=358.820005$ Days $T_0=460.607701$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

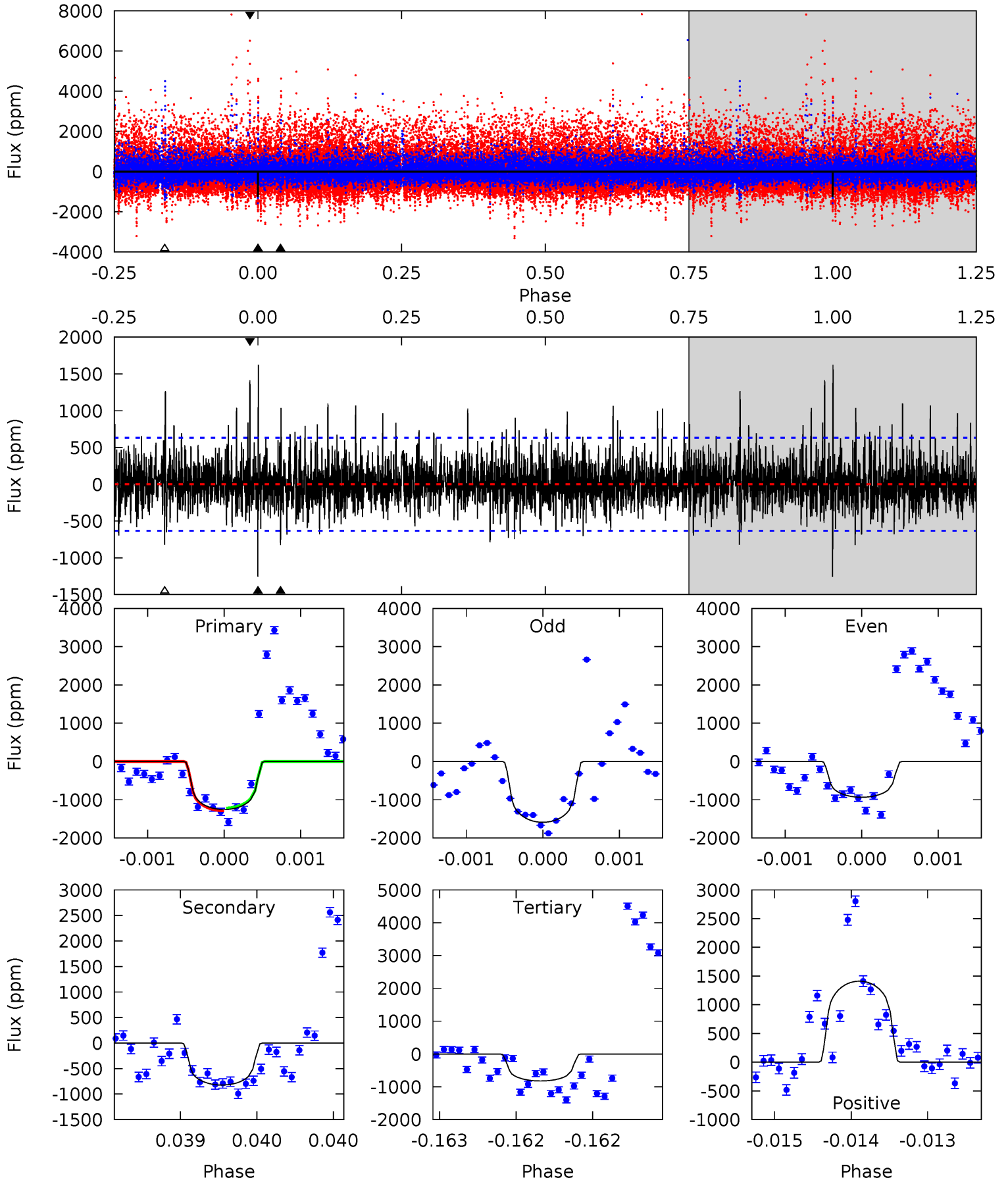
TCE 006608436-05 $P=358.833747$ Days $T_0=460.564151$ (BKJD)



DV Model-Shift Uniqueness Test

006608436-05, P = 358.820005 Days, E = 101.787696 Days

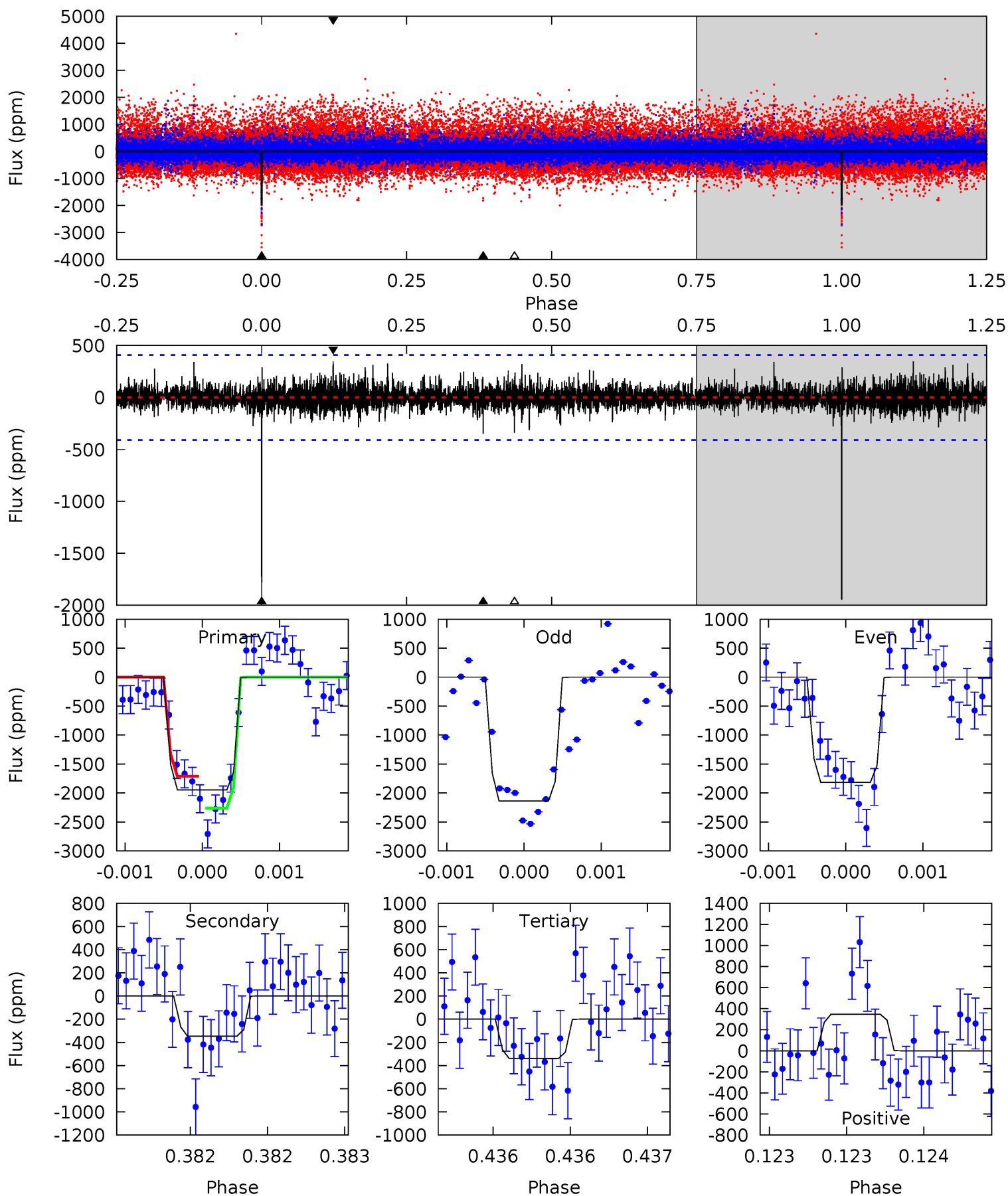
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.0	7.21	7.21	12.4	5.54	3.43	2.09	3.80	-1.36	0.00	-5.15	2.13	0.90	0.56	0.31



Alt Model-Shift Uniqueness Test

006608436-05, P = 358.833747 Days, E = 101.730404 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.3	4.69	4.58	4.68	5.53	3.42	0.93	21.8	21.7	0.10	0.01	2.12	0.93	0.15	3.69



Stellar Parameters For KIC 006608436

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5295^{+158}_{-142}	$4.530^{+0.099}_{-0.072}$	$-0.460^{+0.300}_{-0.300}$	$0.756^{+0.098}_{-0.088}$	$0.707^{+0.103}_{-0.044}$	$2.299^{+0.937}_{-0.561}$
	+3%/-3%	+2%/-2%	+65%/-65%	+13%/-12%	+15%/-6%	+41%/-24%
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 006608436-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-823 ± 114	$3.45^{+1.76}_{-1.60}$	302^{+14}_{-13}	4532^{+1426}_{-652}	30372^{+70973}_{-17670}
Alt.	-346 ± 74	$3.91^{+2.03}_{-1.88}$	302^{+13}_{-12}	3713^{+1009}_{-467}	9768^{+27599}_{-5527}

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 $A_{obs} \gg 1.0$

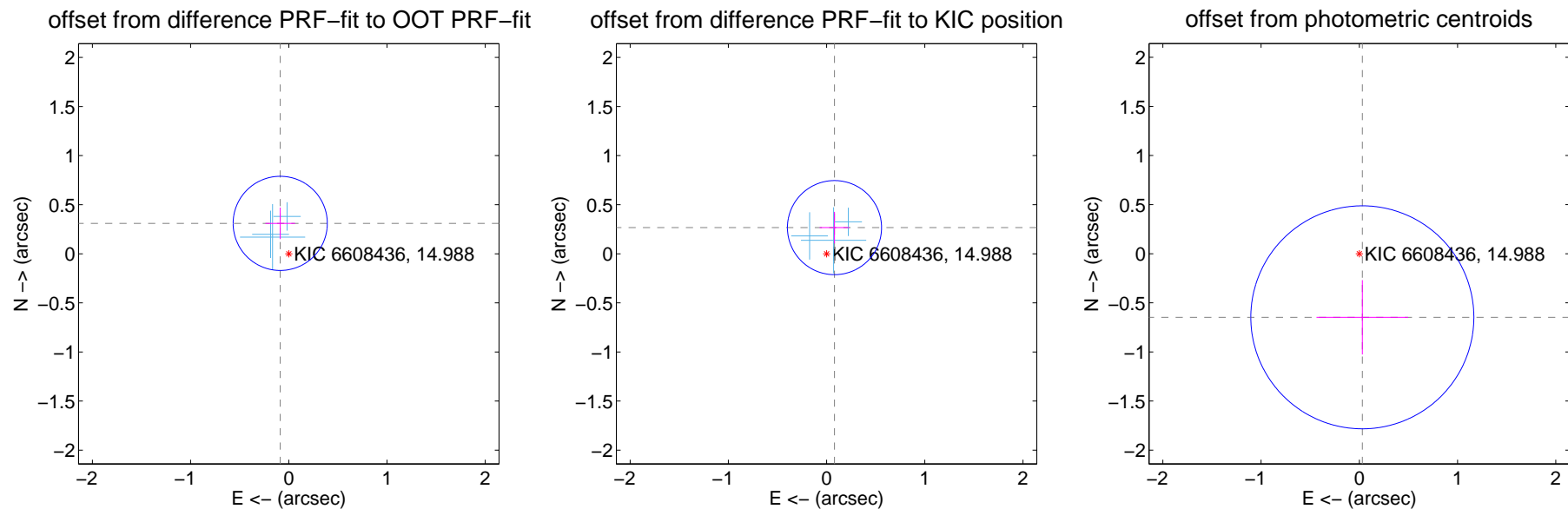
DV Centroid Data

Supplemental centroid analysis for 006608436-05. Kepler magnitude: 14.99. Transit SNR 9.40

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.322 ± 0.160	2.01	0.087 ± 0.151	0.310 ± 0.161
PRF-fit source offset from KIC position	0.278 ± 0.160	1.74	-0.081 ± 0.151	0.267 ± 0.161
photometric centroid source offset	0.65 ± 0.38	1.71	-0.03 ± 0.47	-0.65 ± 0.38

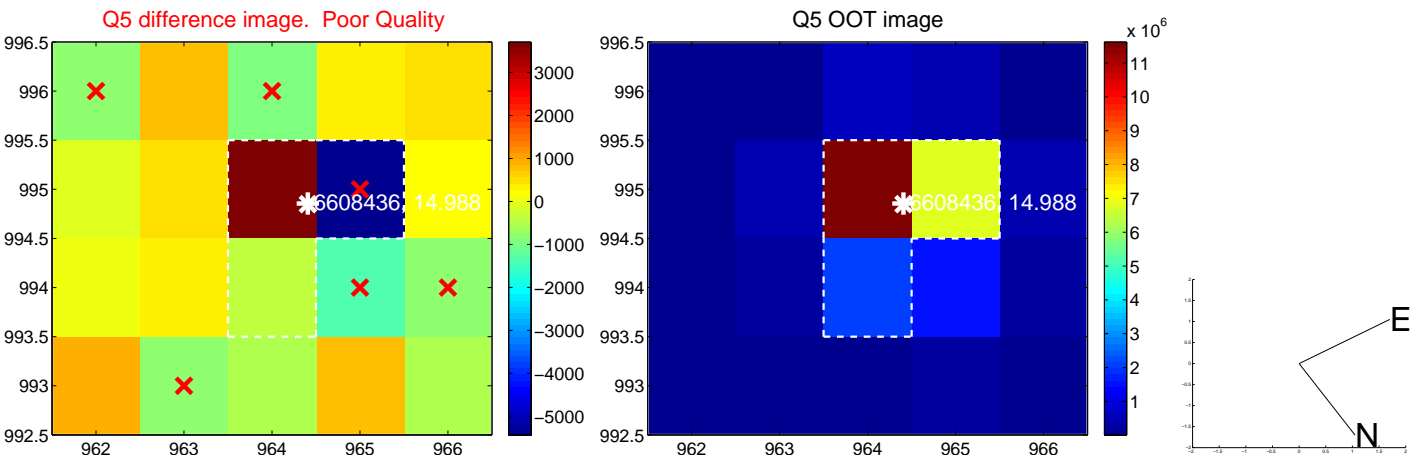


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

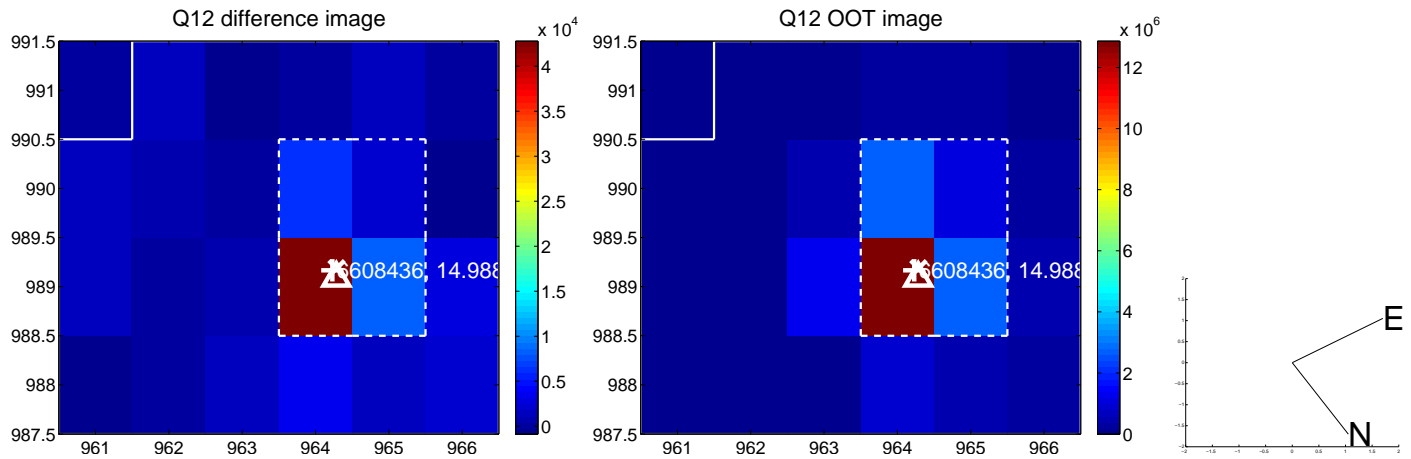
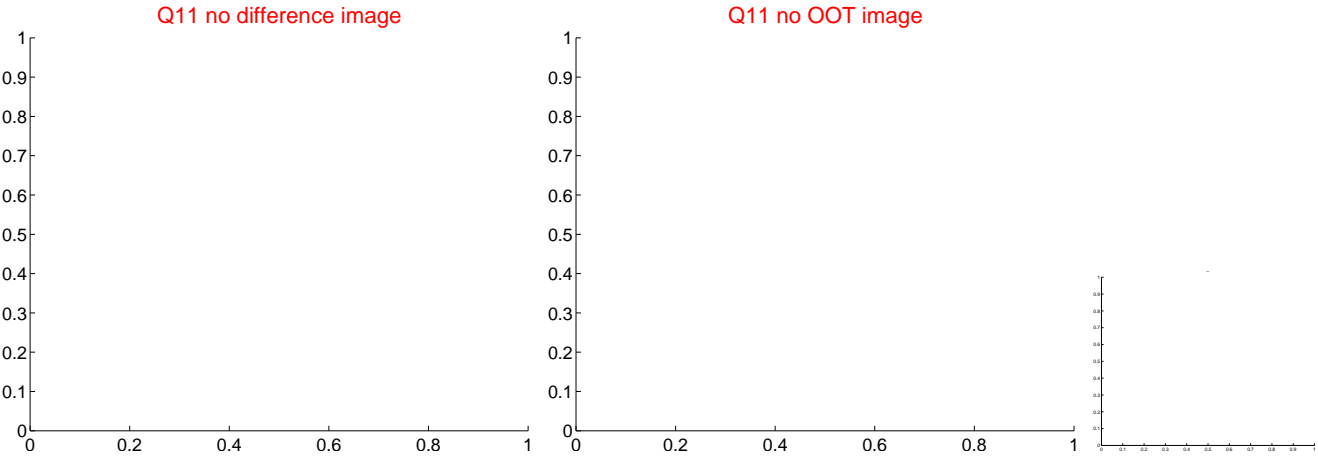
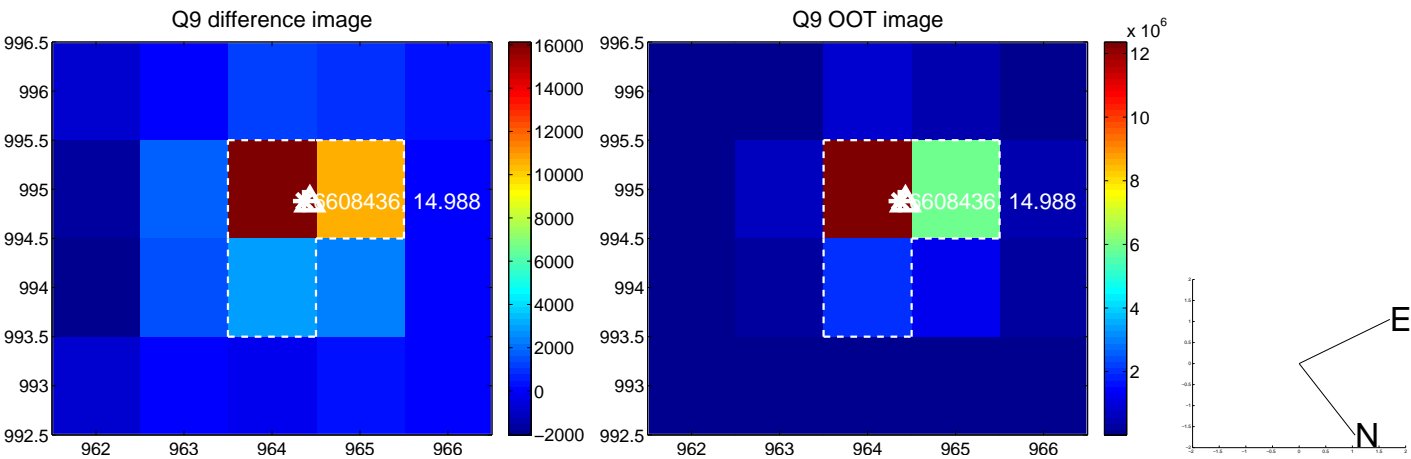
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



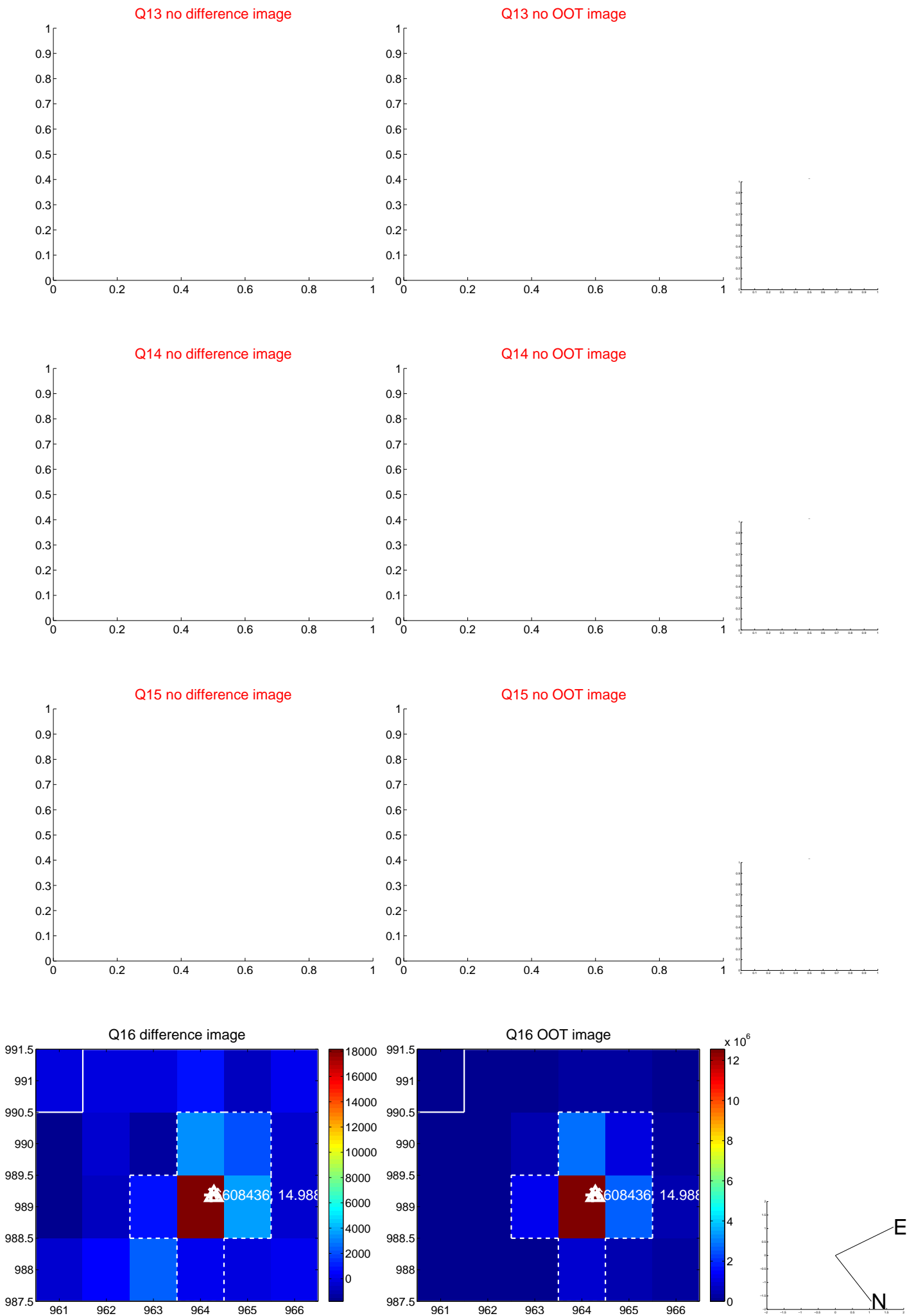
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



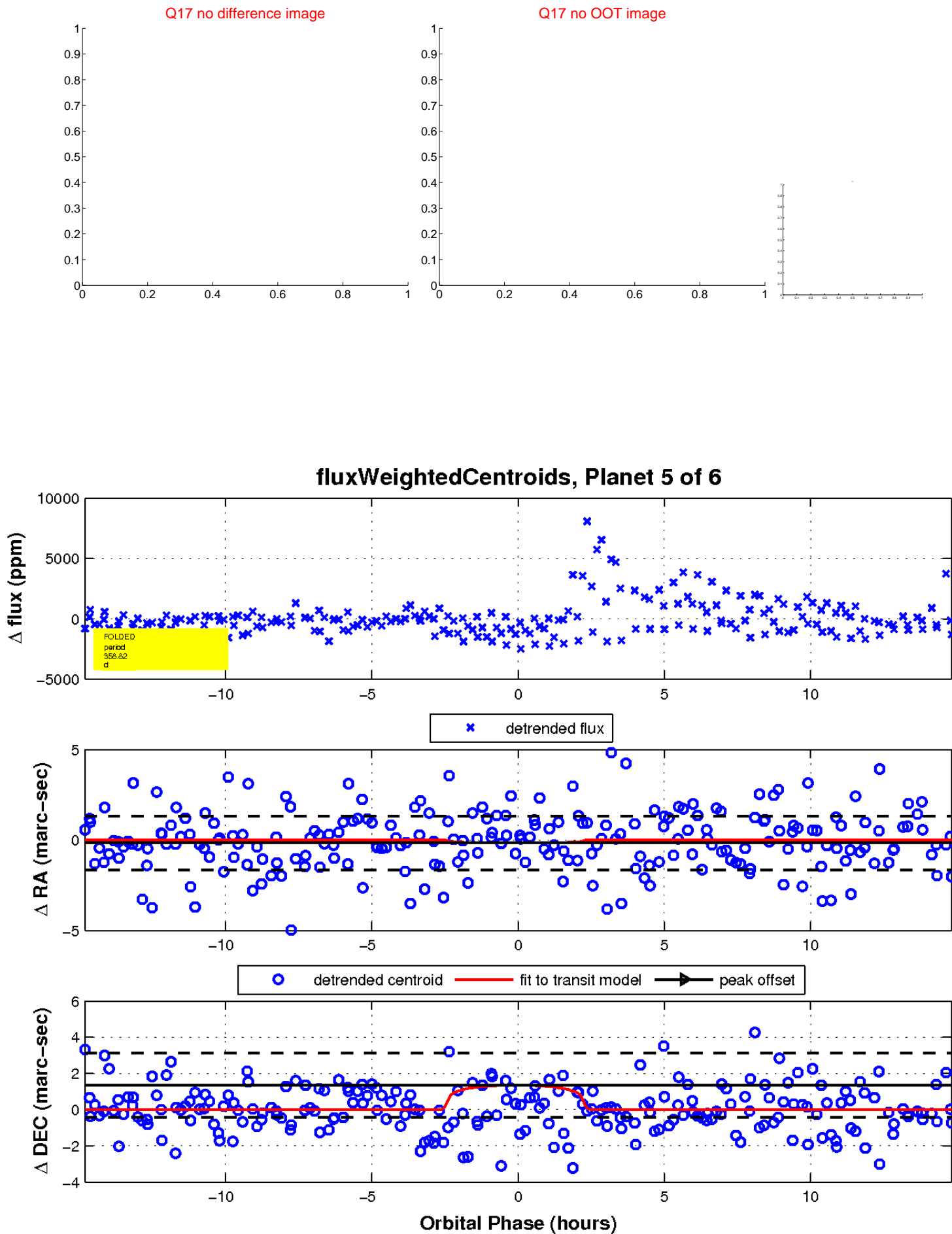
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



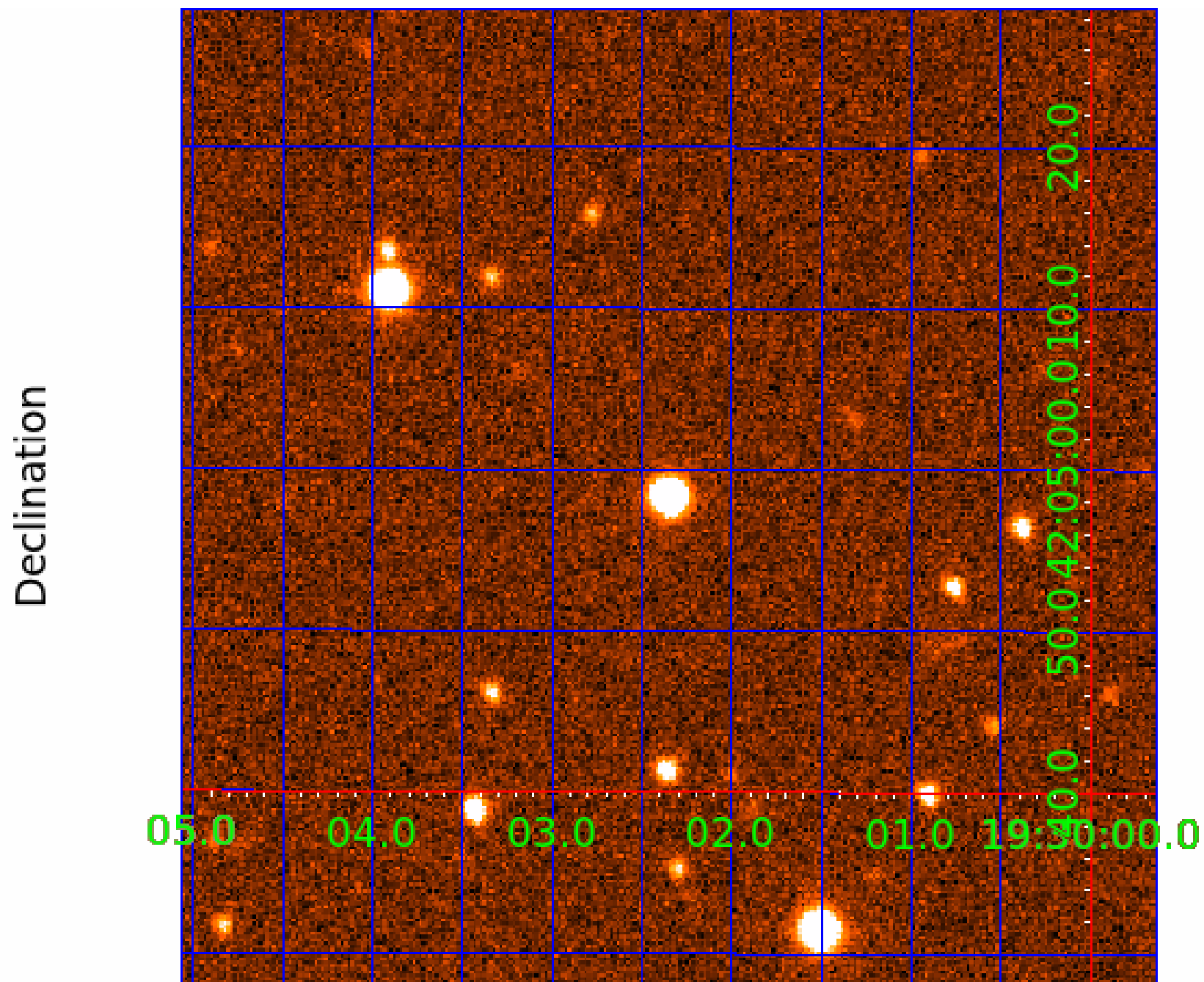
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006608436

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})
006608436-01	OBS	No	258.482480	312.195418	1795.8	7.827	14.8	7.1	0.76	5295	6.20	0.80
006608436-02	OBS	No	335.738702	345.781516	2759.6	12.063	15.5	11.2	0.76	5295	3.90	0.57
006608436-03	OBS	No	358.451805	192.177670	1640.7	11.628	14.0	7.5	0.76	5295	3.01	0.52
006608436-05	OBS	No	358.820005	460.607701	1860.1	4.946	12.5	9.4	0.76	5295	3.31	0.52
006608436-06	OBS	No	365.352053	380.963894	994.5	7.500	13.5	-1.0	0.76	5295	2.34	0.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006608436-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006608436-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006608436-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS
006608436-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

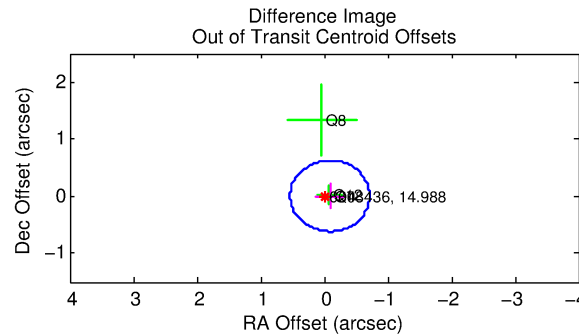
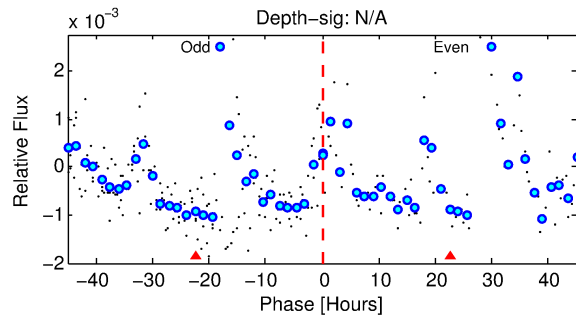
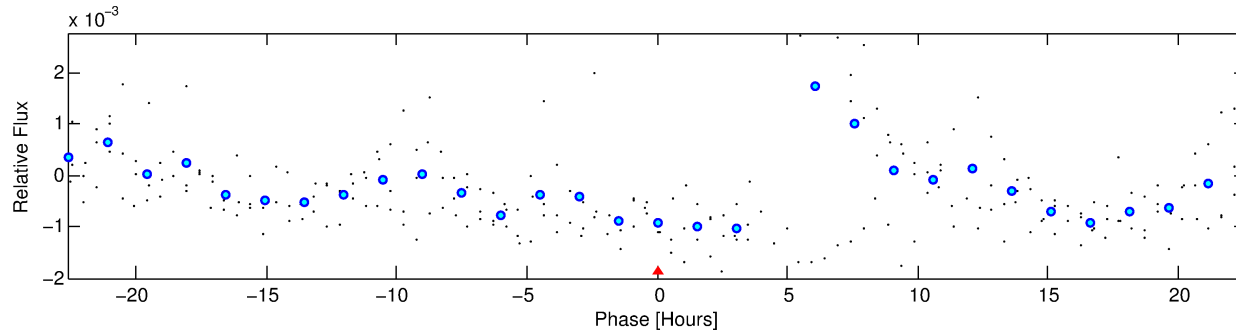
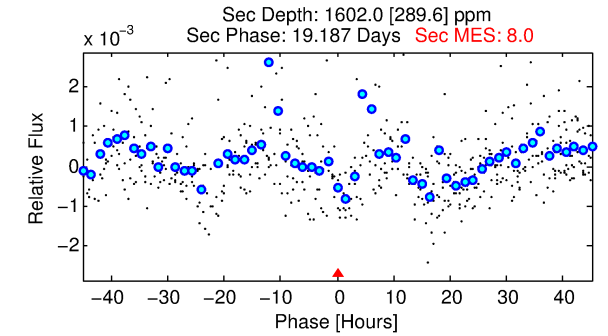
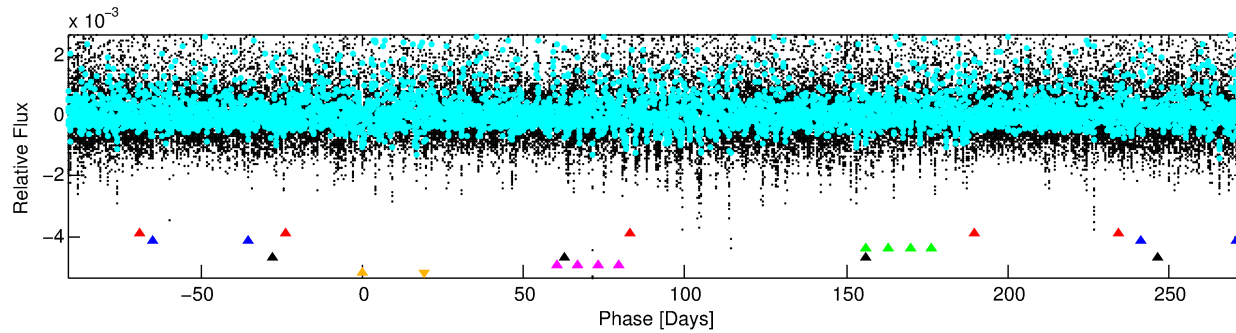
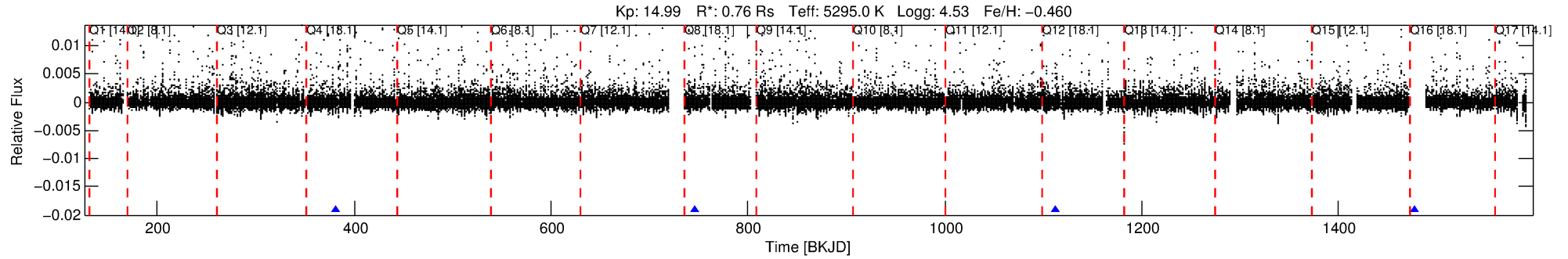
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006608436-06

No Significant Match Found

DV One-Page Summary

KIC: 6608436 Candidate: 6 of 6 Period: 365.352 d



TPS TCE Results:

Period = 365.35205 d
Epoch = 380.9639 BKJD

DV fit results are unavailable

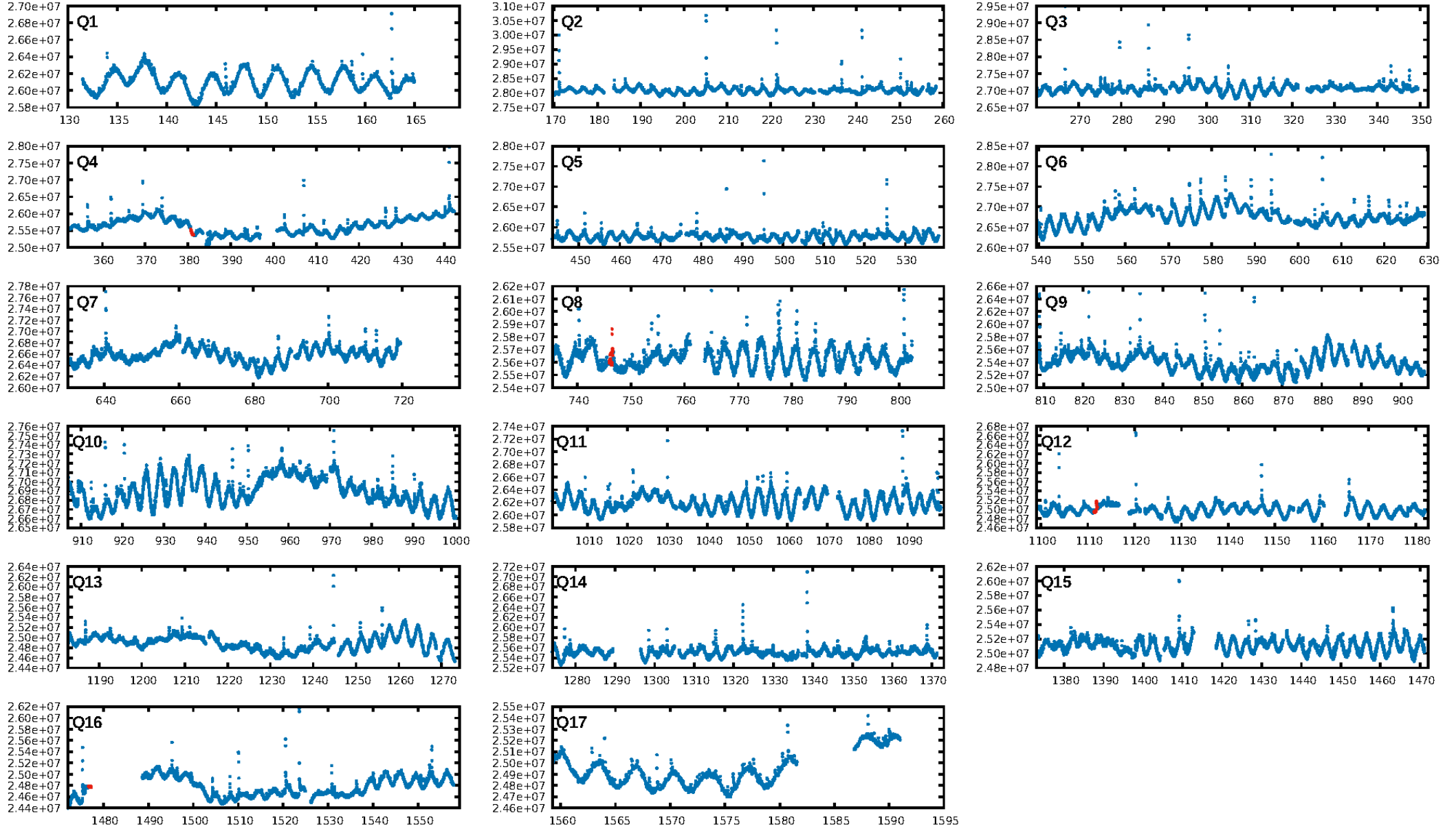
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [17.45 σ]
LongPeriod-sig: 100.0% [196.57 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.2791
Centroid-sig: 13.2%
Centroid-so: 0.431 arcsec [0.94 σ]
OotOffset-rm: 0.089 arcsec [0.43 σ]
KicOffset-rm: 0.306 arcsec [1.47 σ]
OotOffset-st: 0/0/3/0 [3]
KicOffset-st: 0/0/3/0 [3]
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DiffImageOverlap-fno: 1.00 [3/3]

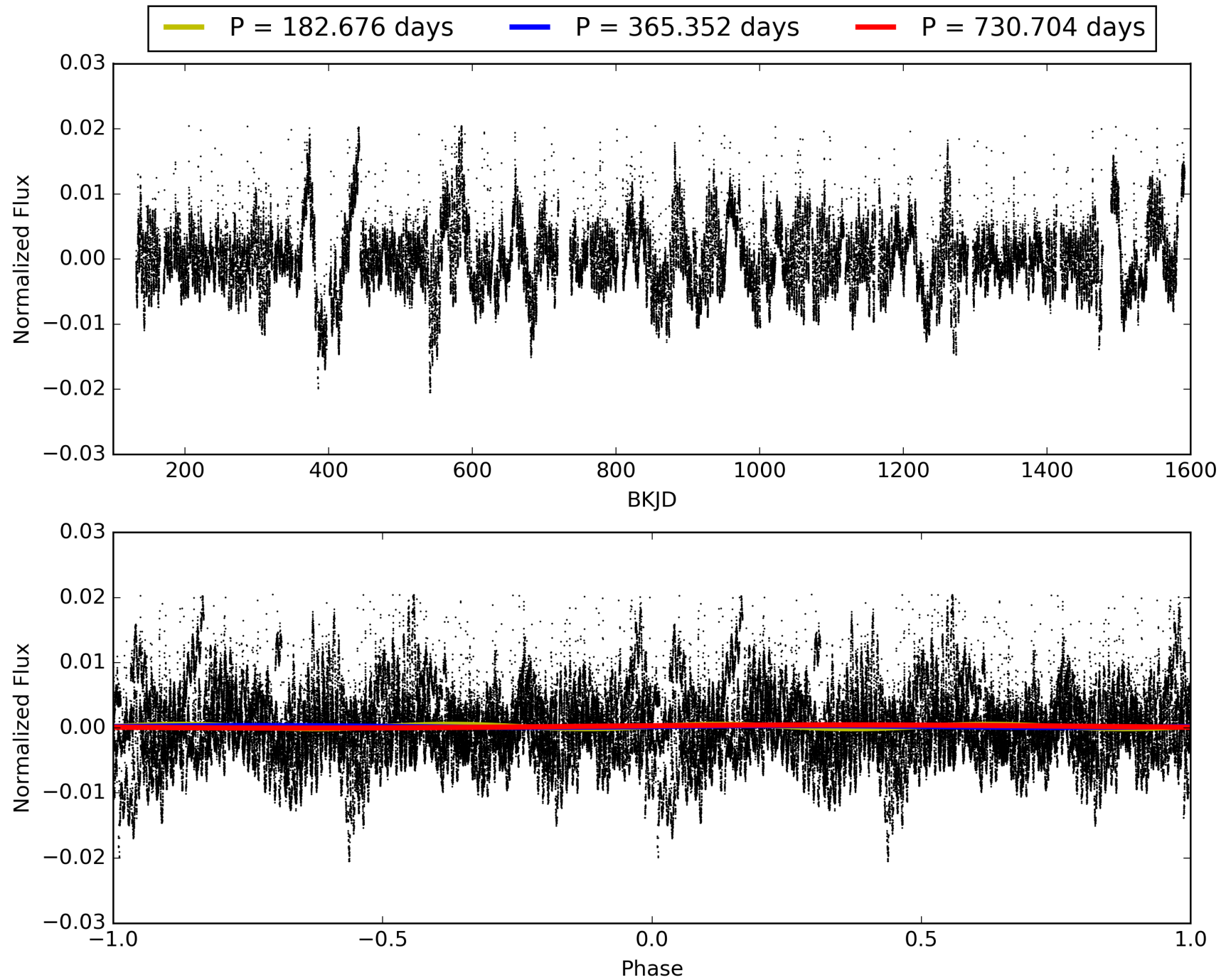
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:11:01 Z

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

TCE 006608436-06, PDC Light Curves

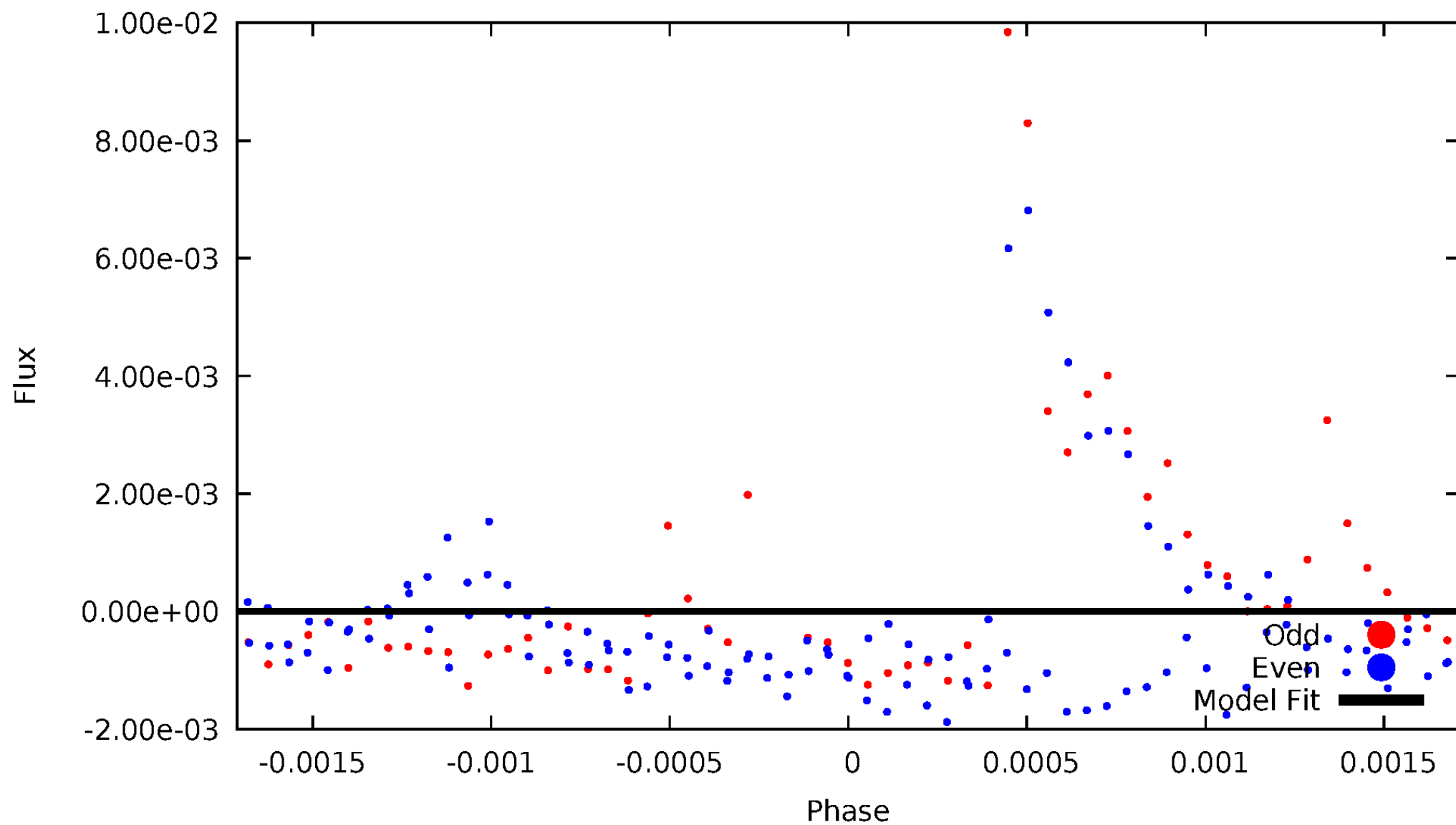


TCE 006608436-06



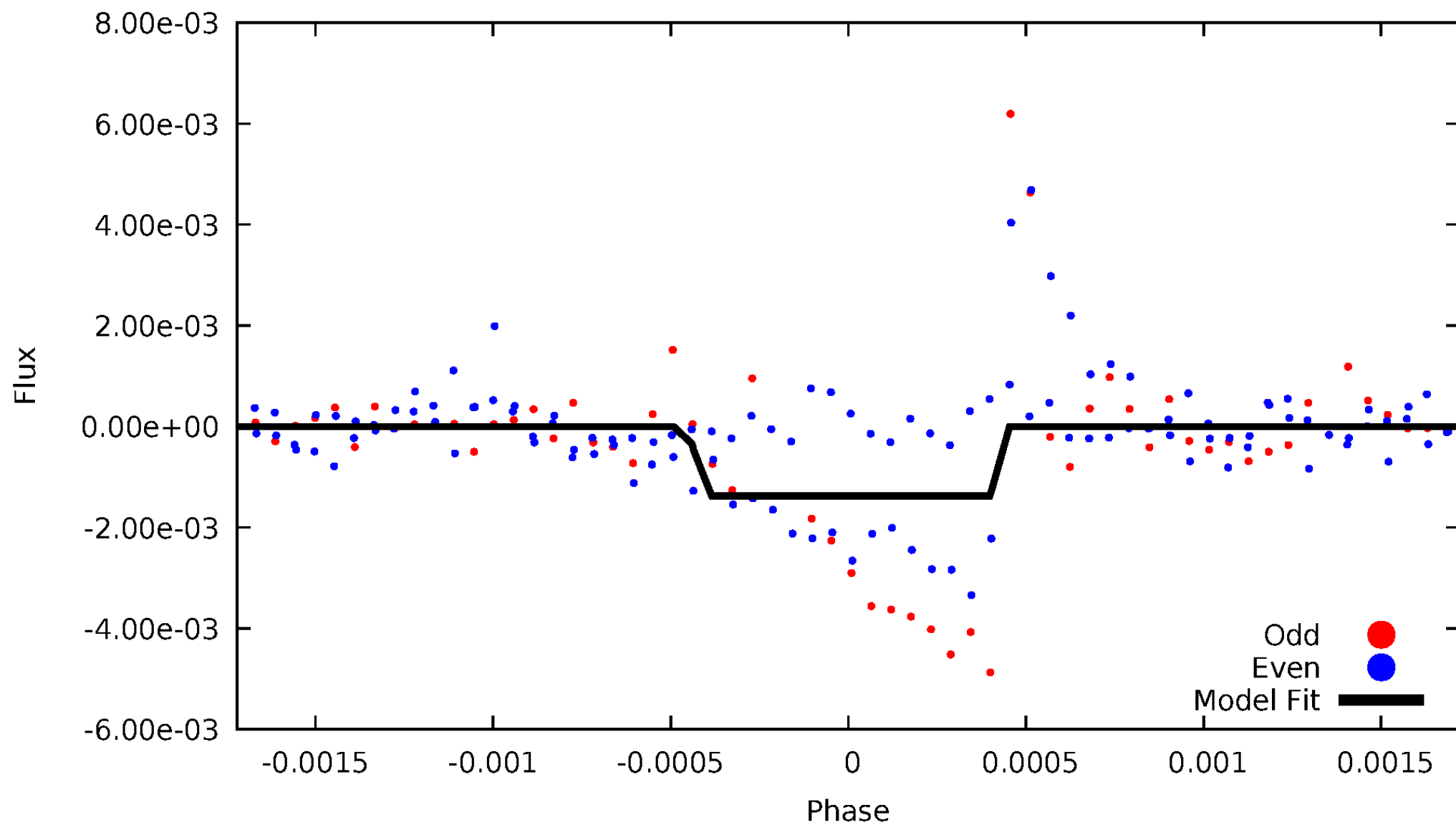
DV Odd/Even

TCE 006608436-06



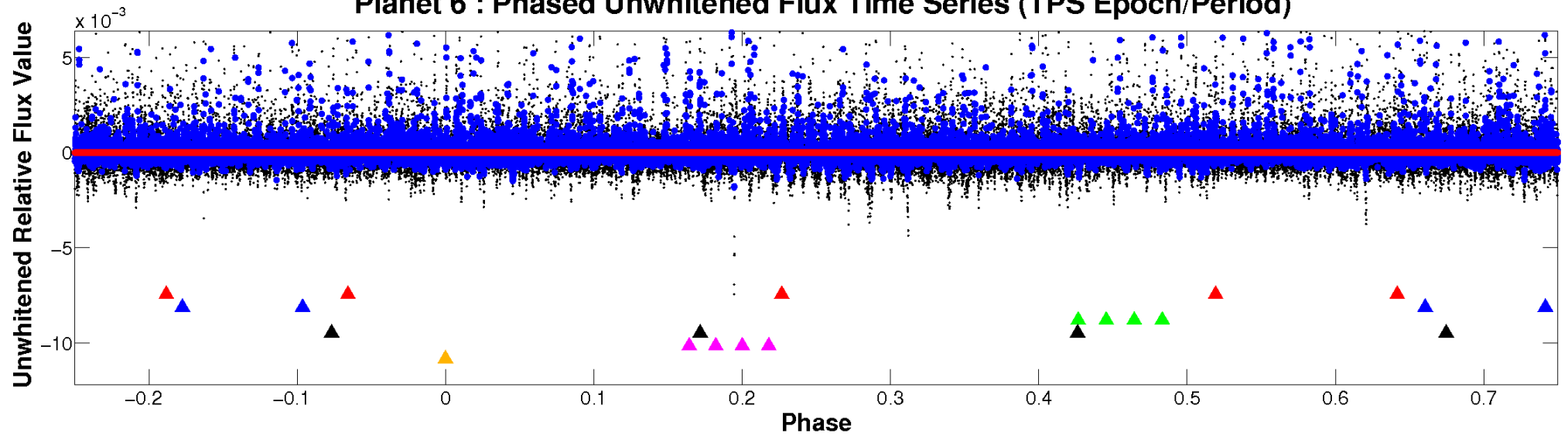
ALT Odd/Even

TCE 006608436-06



Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

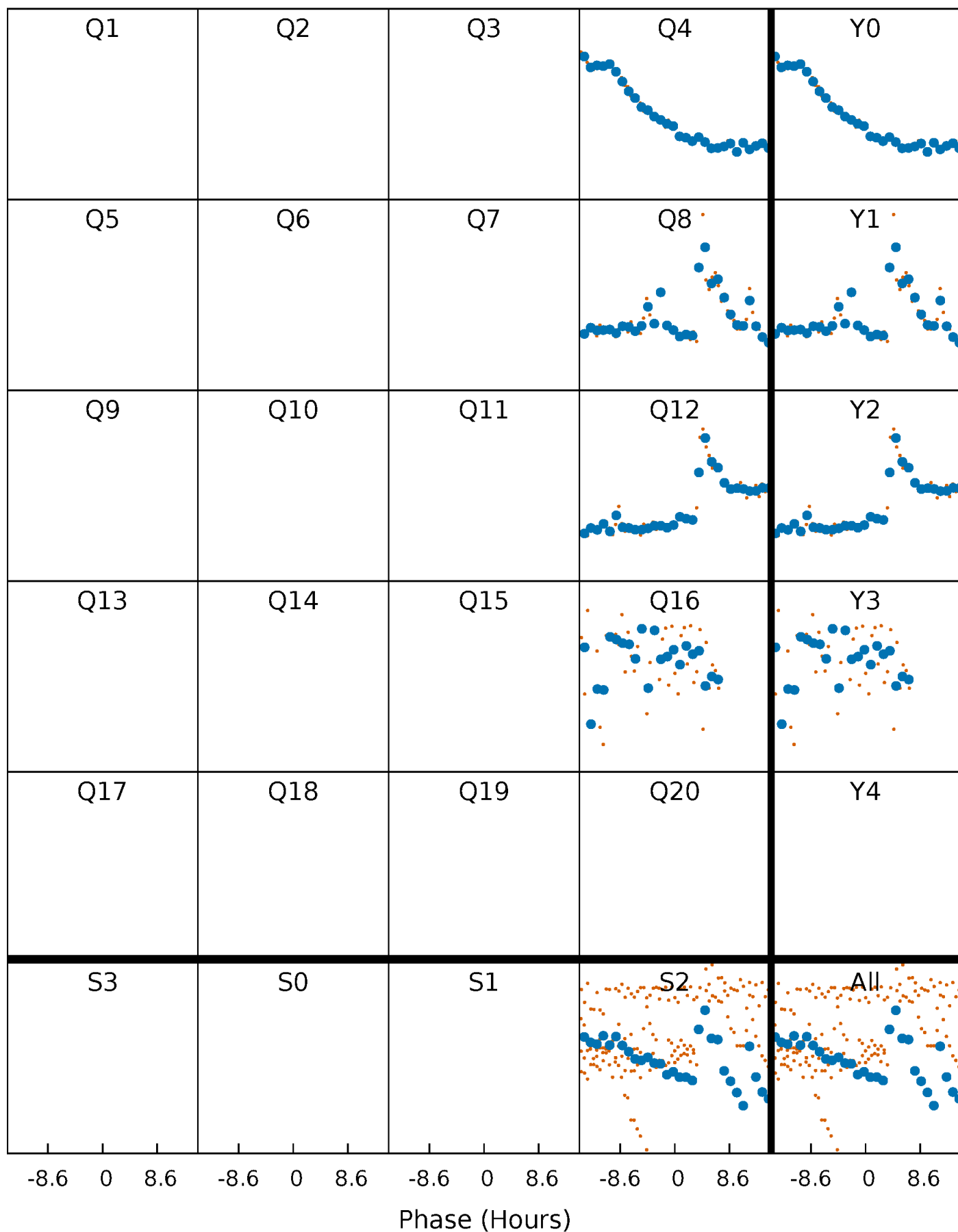


Planet 6 : Phased Whitened Flux Time Series (TPS Epoch/Period)



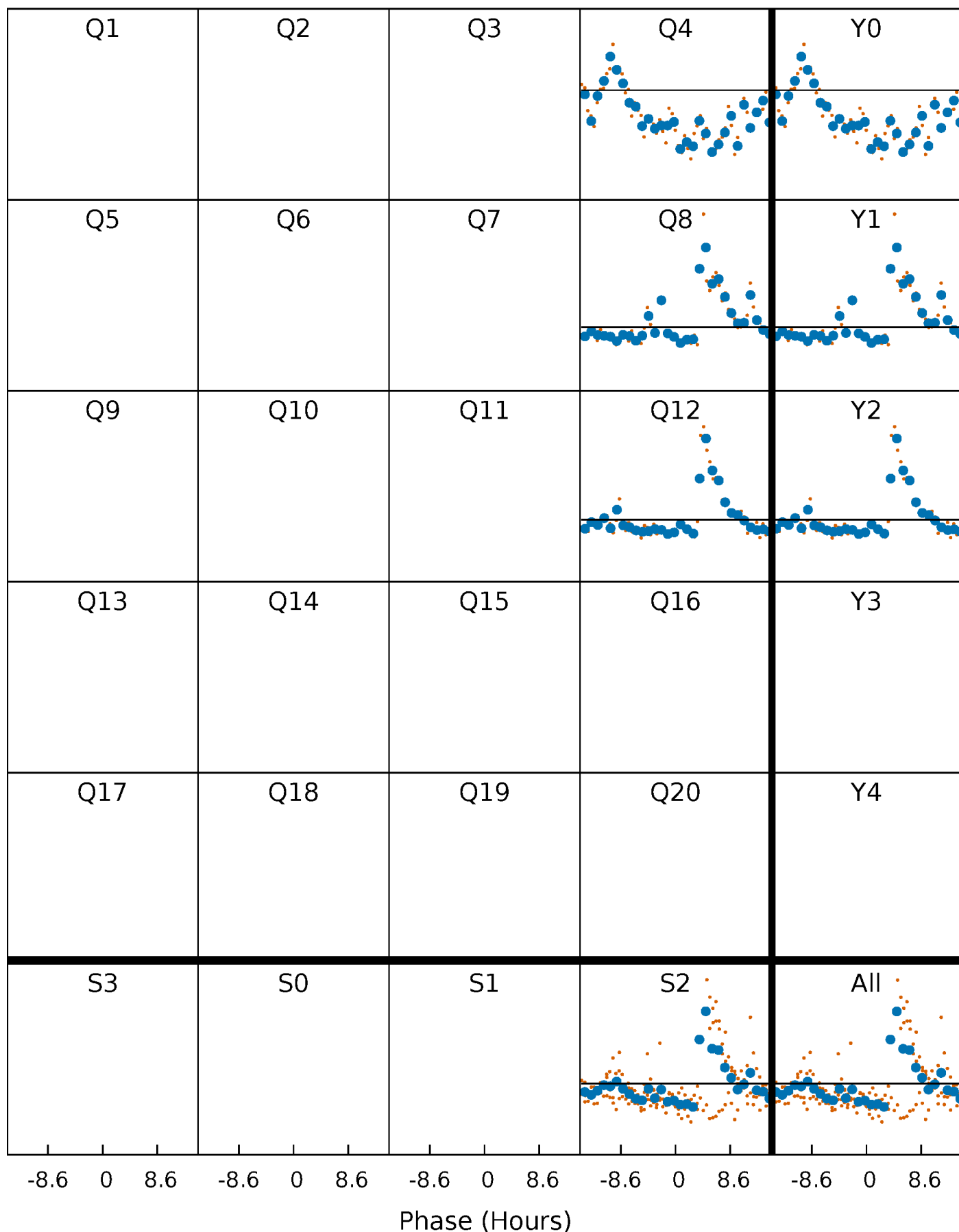
PDC Quarter-Phased Transit Curves

TCE 006608436-06 P=365.352053 Days $T_0=380.963894$ (BKJD)



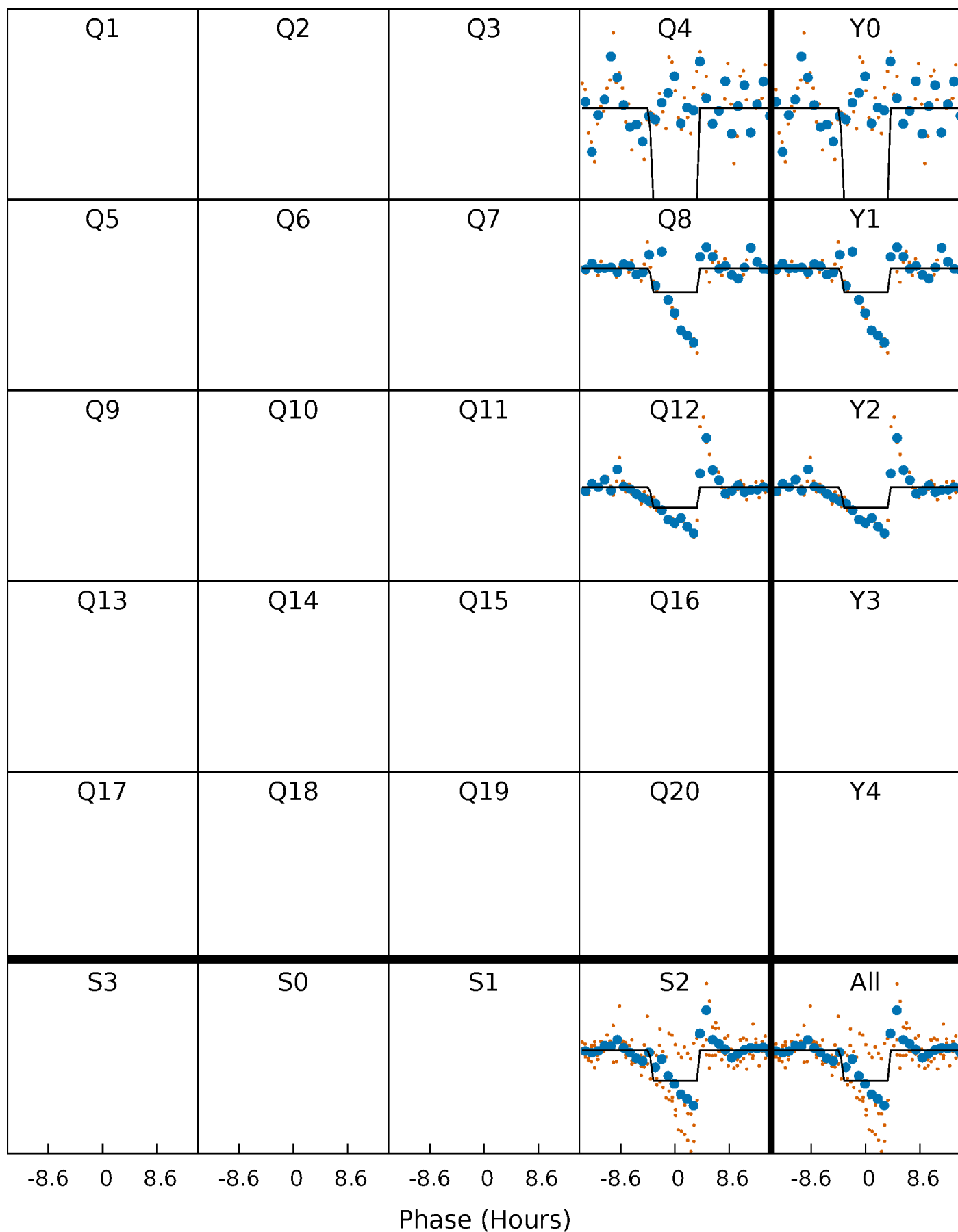
DV Quarter-Phased Transit Curves

TCE 006608436-06 $P=365.352053$ Days $T_0=380.963894$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

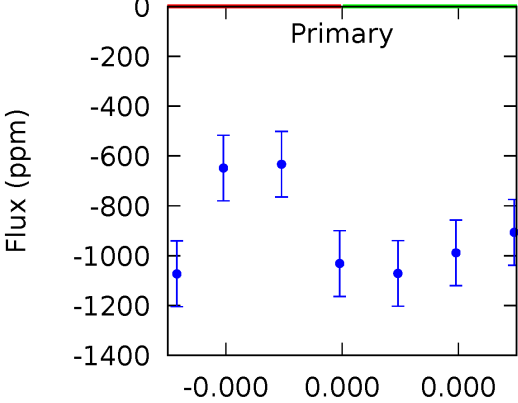
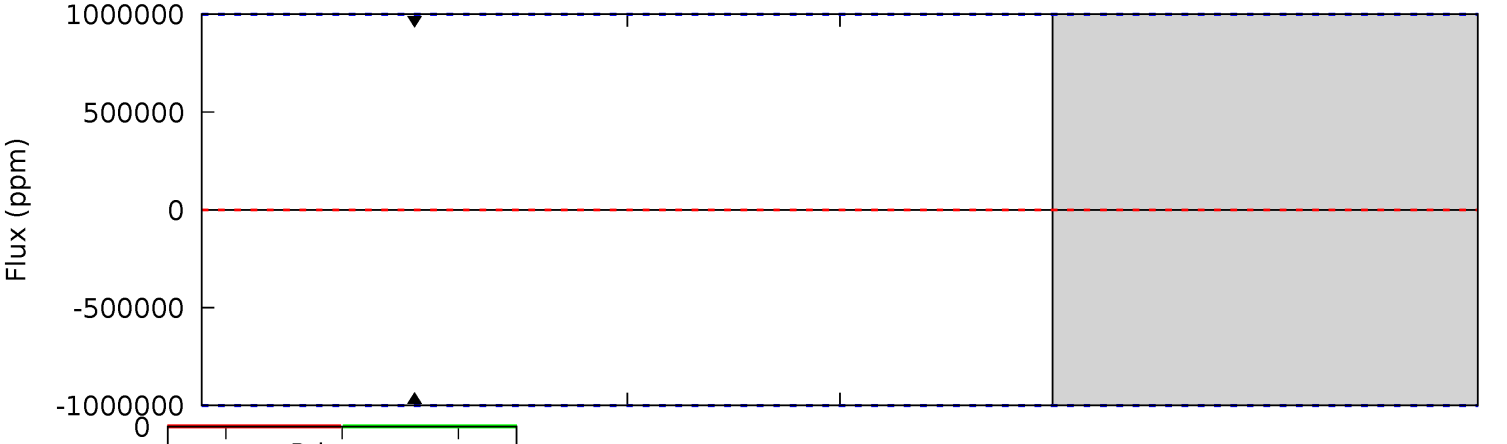
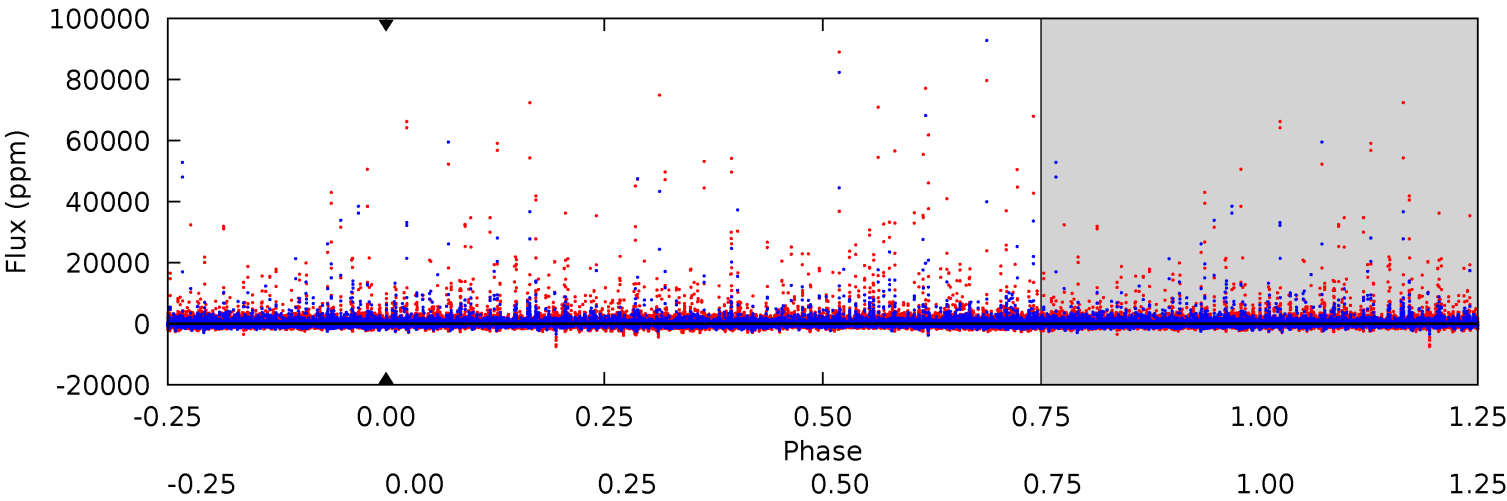
TCE 006608436-06 P=365.352053 Days $T_0=380.960144$ (BKJD)



DV Model-Shift Uniqueness Test

006608436-06, P = 365.352053 Days, E = 15.611841 Days

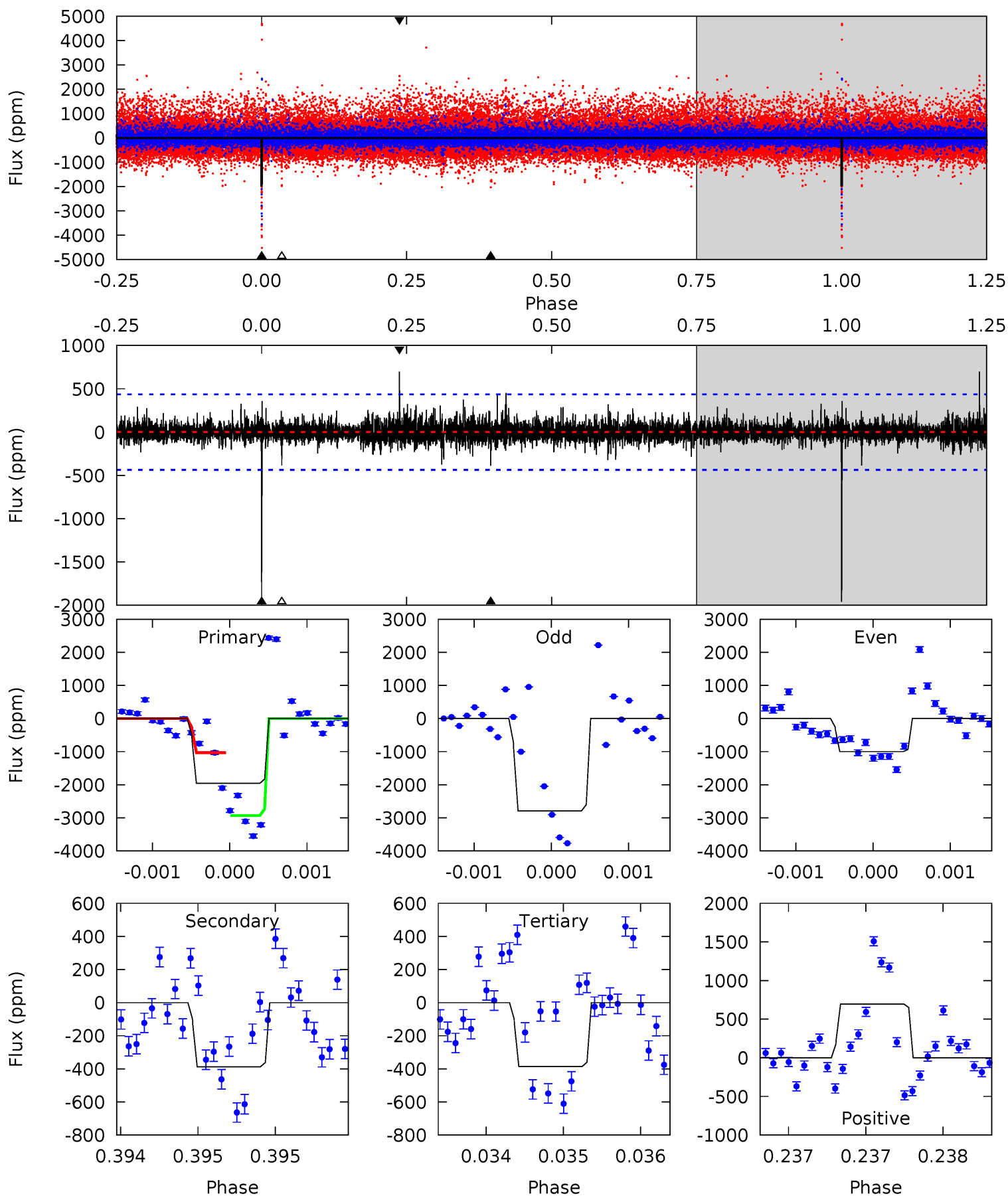
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006608436-06, $P = 365.352053$ Days, $E = 15.608091$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.6	4.85	4.83	8.73	5.47	3.32	0.97	19.7	15.8	0.02	-3.88	11.1	0.75	0.26	12.0



Stellar Parameters For KIC 006608436

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5295^{+158}_{-142}	$4.530^{+0.099}_{-0.072}$	$-0.460^{+0.300}_{-0.300}$	$0.756^{+0.098}_{-0.088}$	$0.707^{+0.103}_{-0.044}$	$2.299^{+0.937}_{-0.561}$
	+3%/-3%	+2%/-2%	+65%/-65%	+13%/-12%	+15%/-6%	+41%/-24%
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 006608436-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$6.46^{+6.04}_{-4.30}$	299^{+13}_{-12}	4262^{+12466}_{-19096}	$22029^{+2015905}_{-1557047}$
Alt.	-387 ± 80	$6.52^{+6.59}_{-4.29}$	300^{+13}_{-12}	3213^{+1431}_{-579}	4061^{+28983}_{-3120}

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

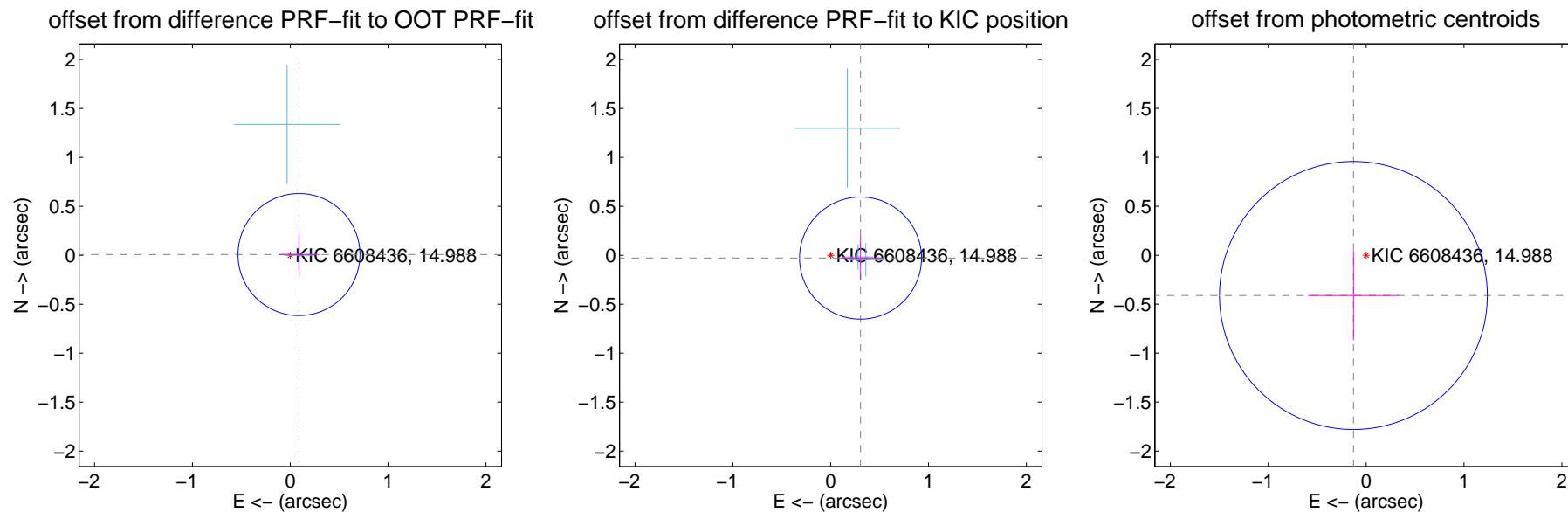
DV Centroid Data

Supplemental centroid analysis for 006608436-06. Kepler magnitude: 14.99. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

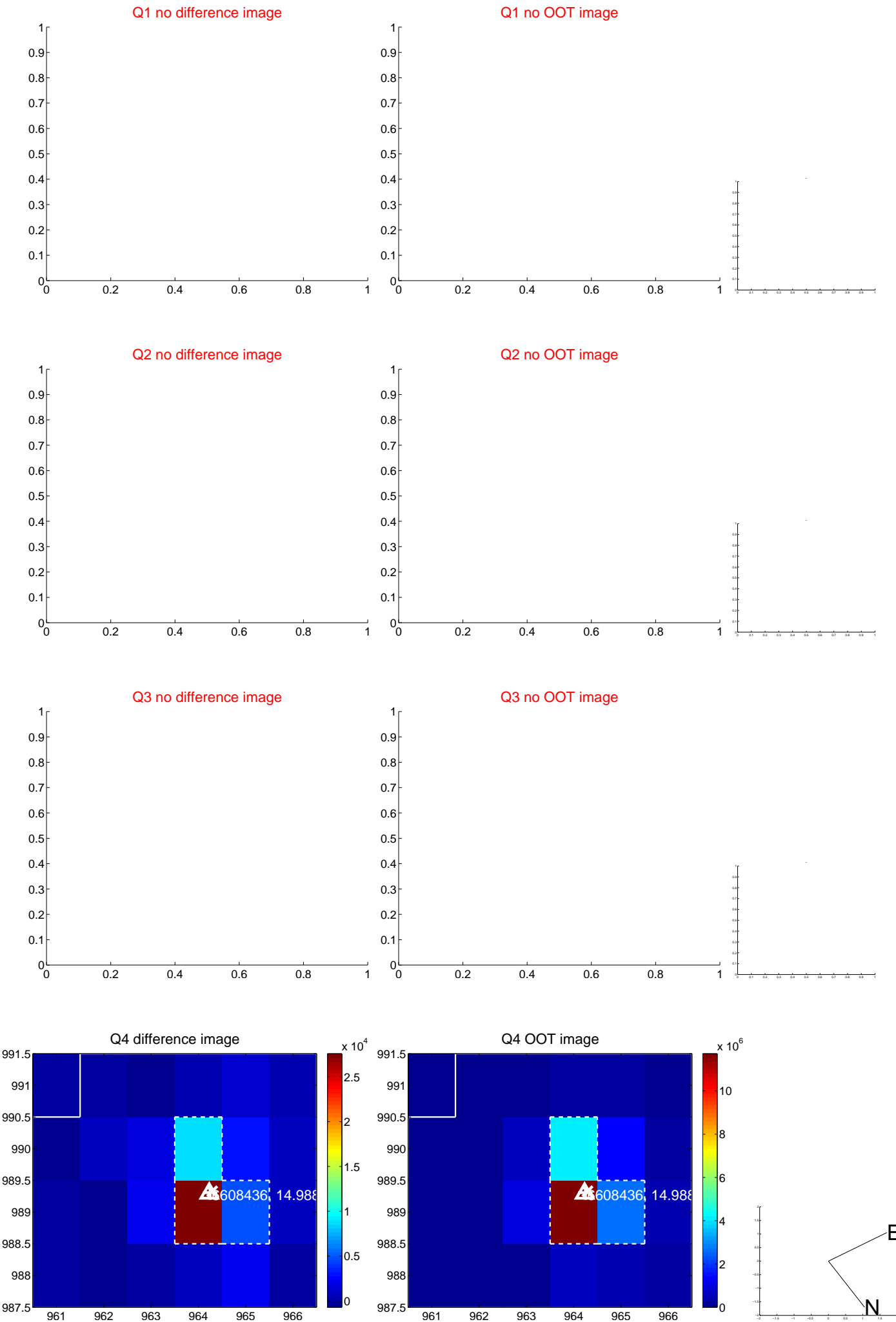
The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.089 ± 0.208	0.43	-0.089 ± 0.208	0.007 ± 0.225
PRF-fit source offset from KIC position	0.306 ± 0.208	1.47	-0.305 ± 0.208	-0.029 ± 0.225
photometric centroid source offset	0.43 ± 0.46	0.94	0.13 ± 0.47	-0.41 ± 0.46

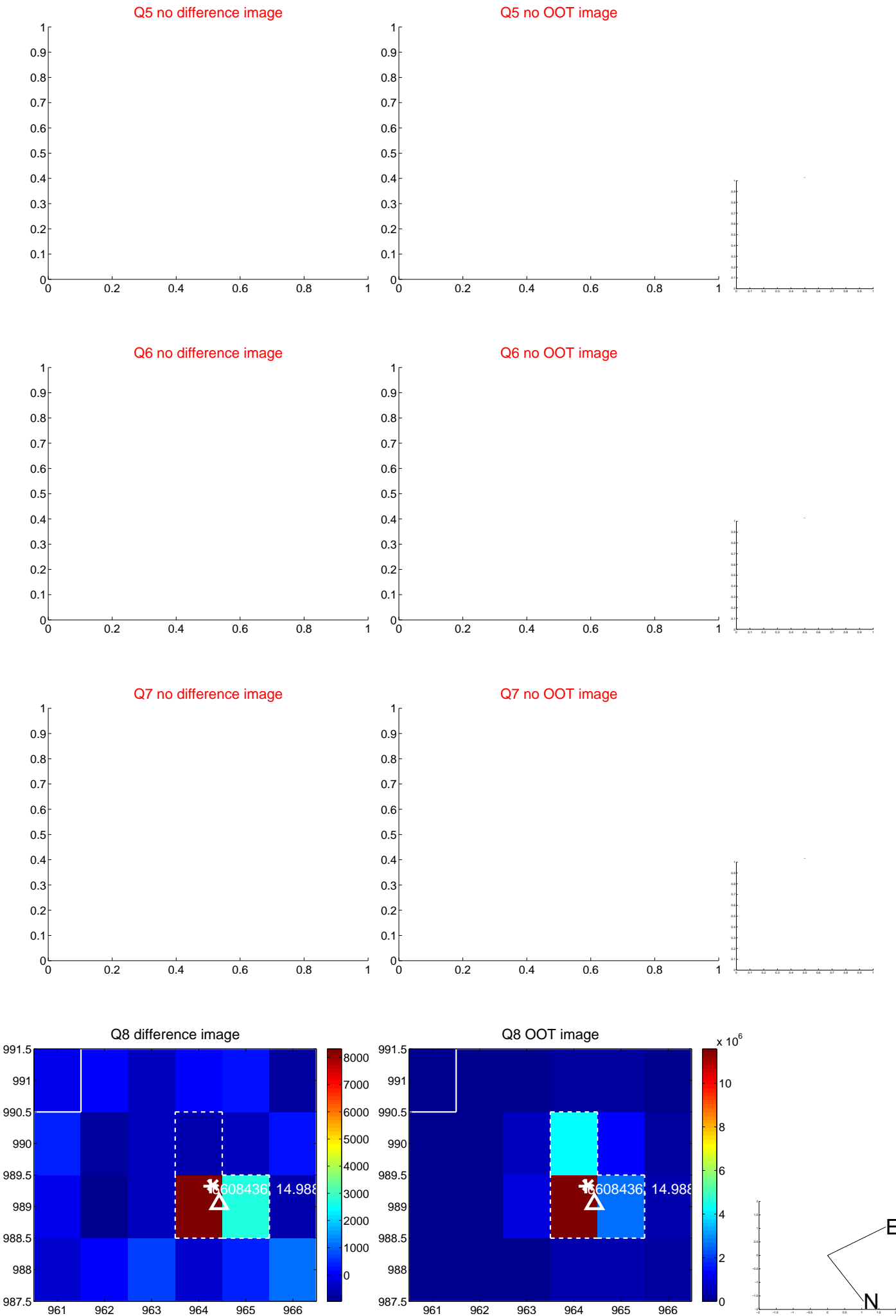


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

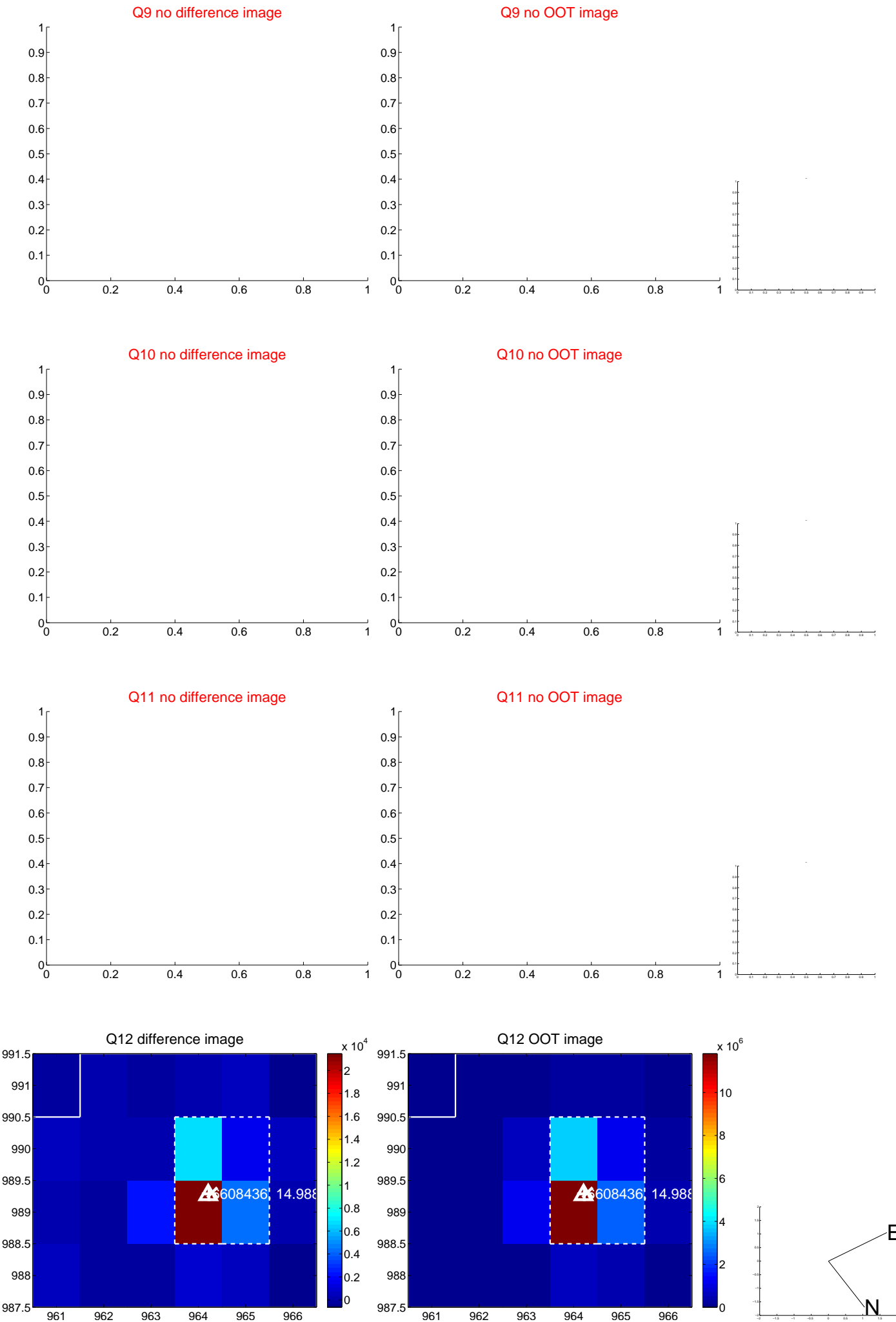
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



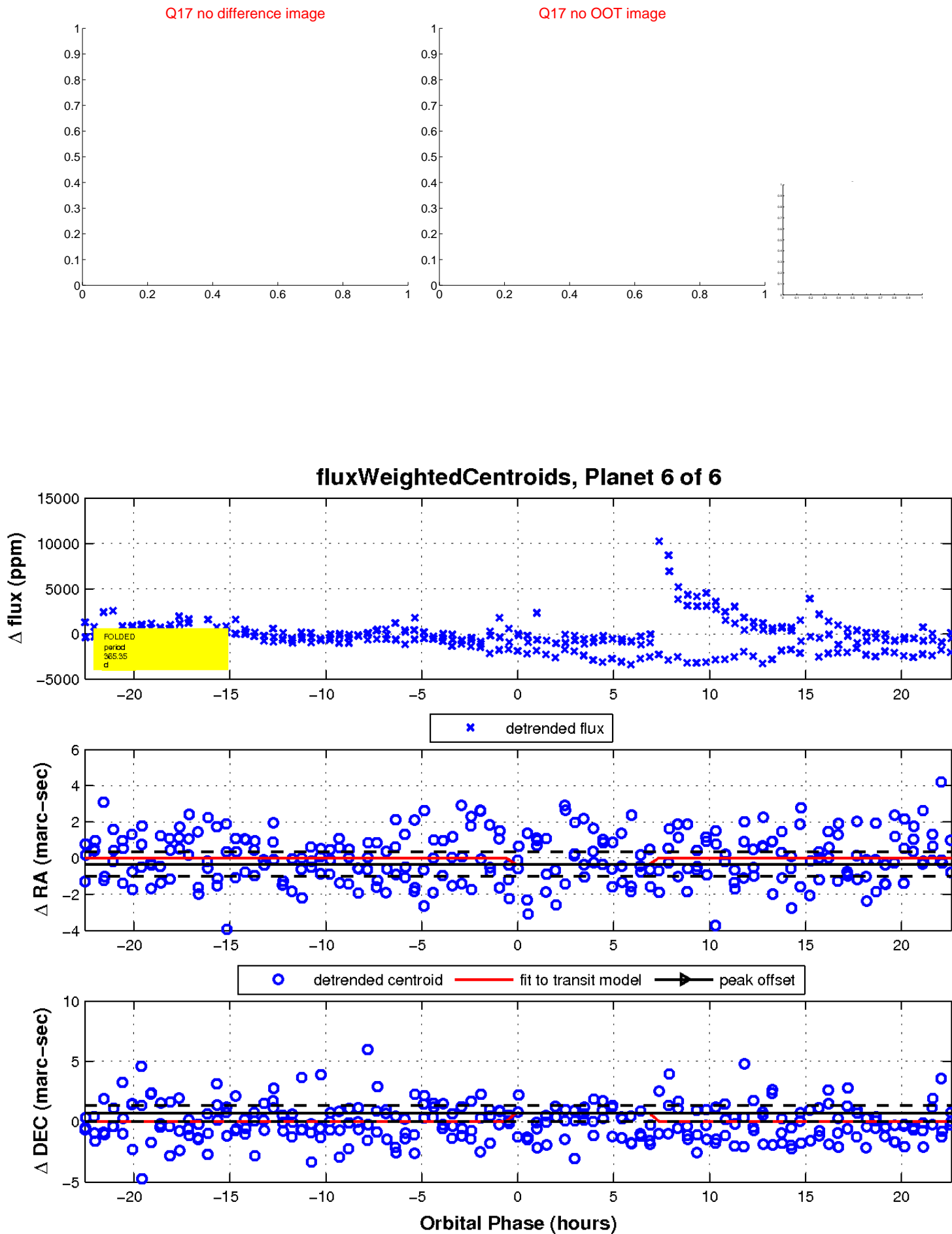
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

