

KIC 010295951

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})
010295951-01	OBS	1154.01	6.810825	136.046873	13965.4	7.921	2688.3	2450.7	2.08	7226	25.77	1657.51
010295951-02	OBS	No	6.810797	132.645659	303.8	7.504	53.5	63.2	2.08	7226	4.16	1657.52
010295951-03	OBS	No	6.811387	133.833608	63.5	15.000	9.0	-1.0	2.08	7226	1.68	1657.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010295951-01	OBS	PC	0.87	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—PLANET_OCCULT_ALT—HAS_SEC_TCE
010295951-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
010295951-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

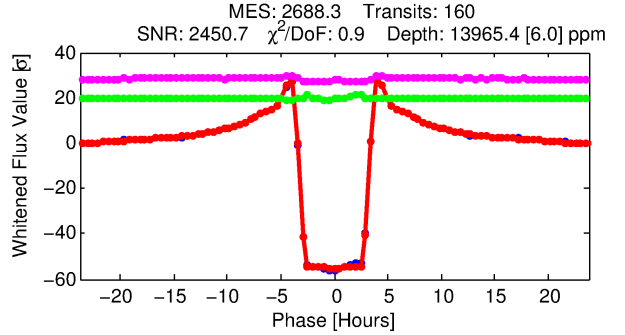
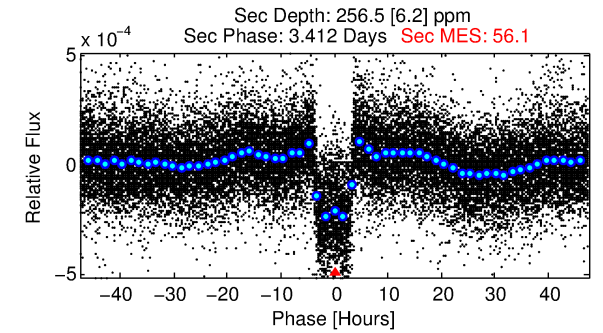
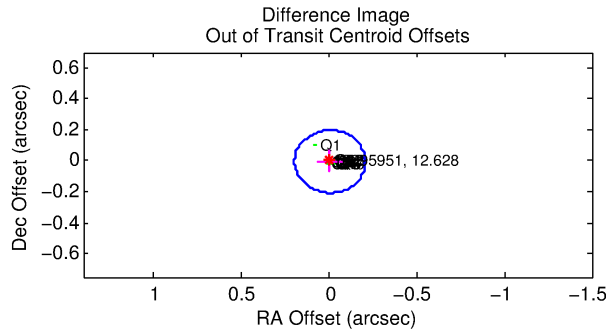
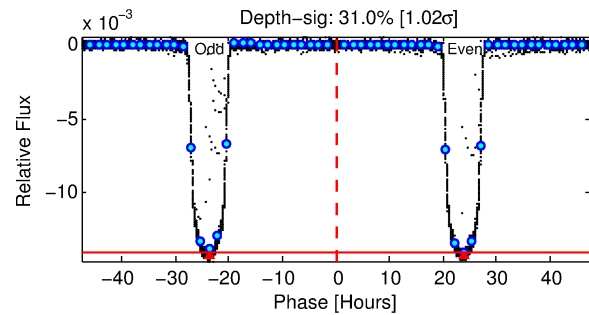
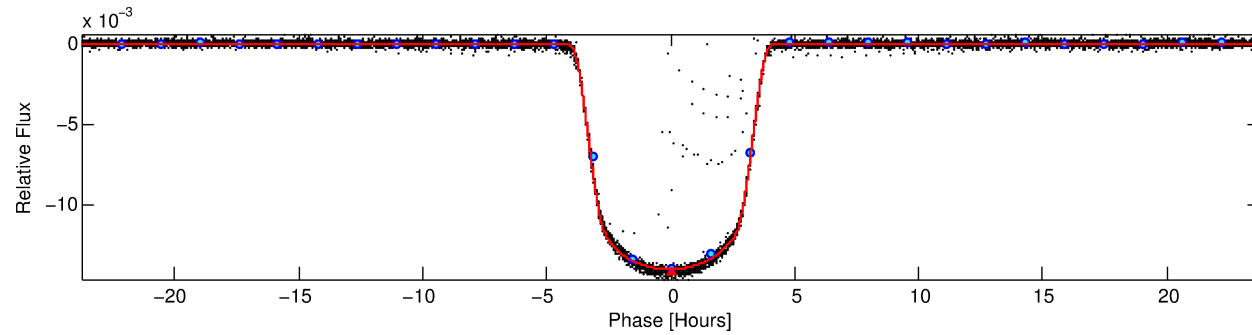
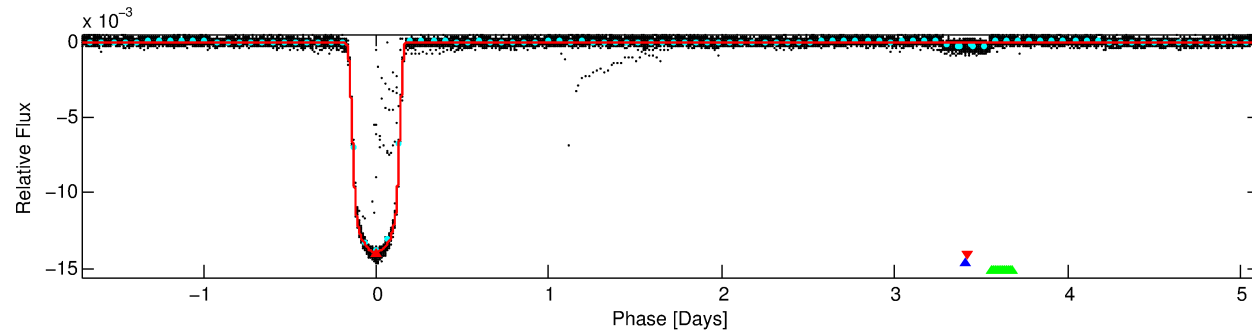
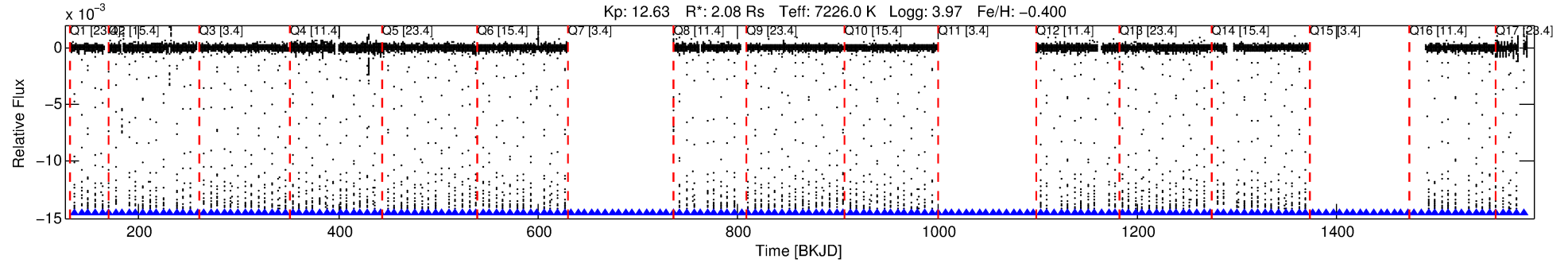
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010295951-01

No Significant Match Found

DV One-Page Summary

KIC: 10295951 Candidate: 1 of 3 Period: 6.811 d
KOI: K01154.01 Corr: 0.999



DV Fit Results:

Period = 6.81082 [0.00000] d
Epoch = 136.0469 [0.0000] BKJD
Rp/R* = 0.1136 [0.0000]
a/R* = 6.30 [0.01]
b = 0.58 [0.00]
Seff = 1657.51 [939.86]
Teff = 1627 [231] K
Rp = 25.77 [9.42] Re
a = 0.0798 [0.0274] AU
Ag = 1.35 [0.73] [0.48 σ]
Teffp = 2713 [115] K [4.21 σ]

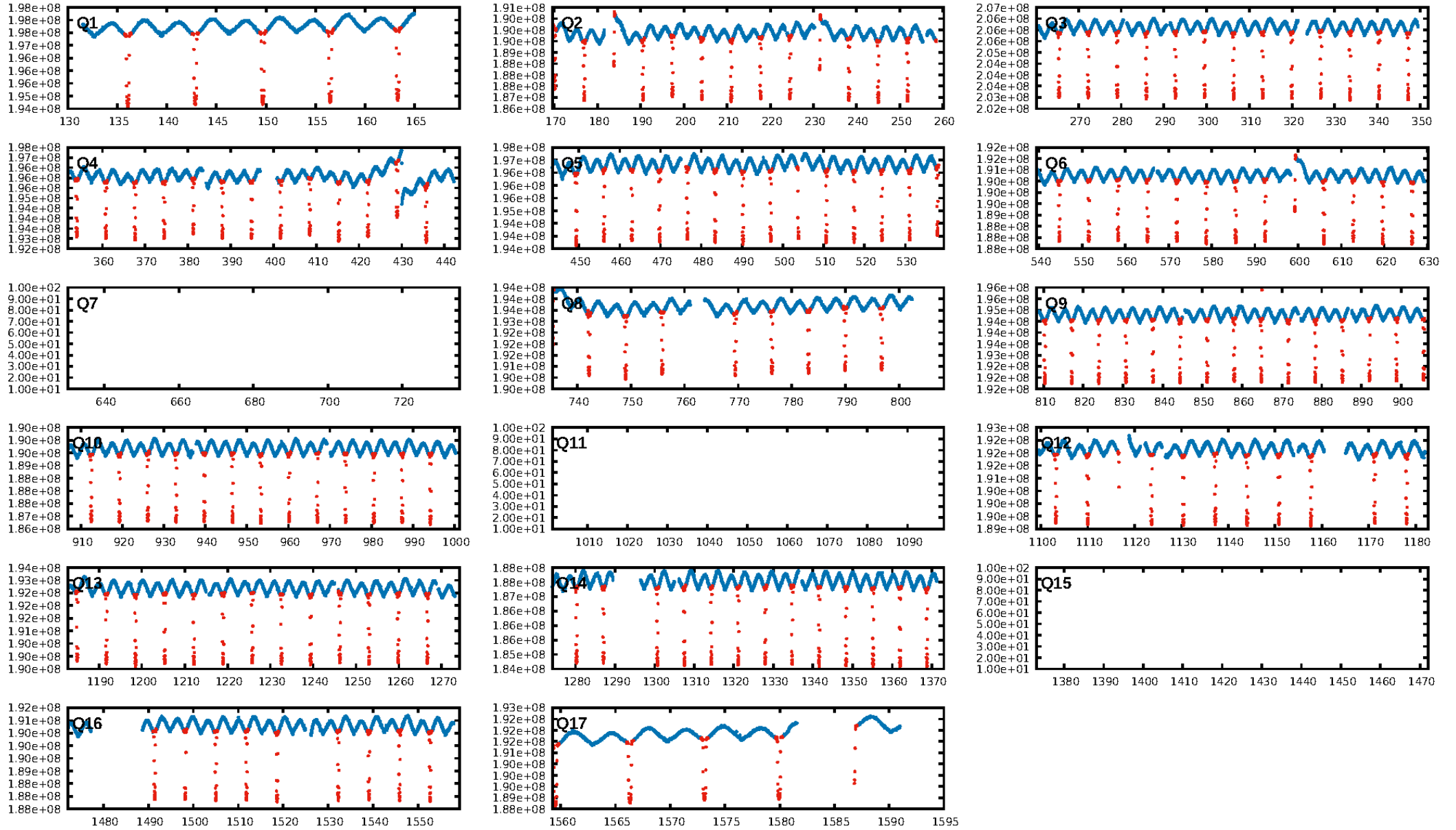
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.1% [0.00 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.7%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [150/150]
GhostDiagnostic-chr: 2.71
Centroid-sig: 0.0%
Centroid-so: 0.076 arcsec [26.21 σ]
OotOffset-rm: 0.008 arcsec [0.12 σ]
KicOffset-rm: 0.011 arcsec [0.16 σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 1.00 [14/14]

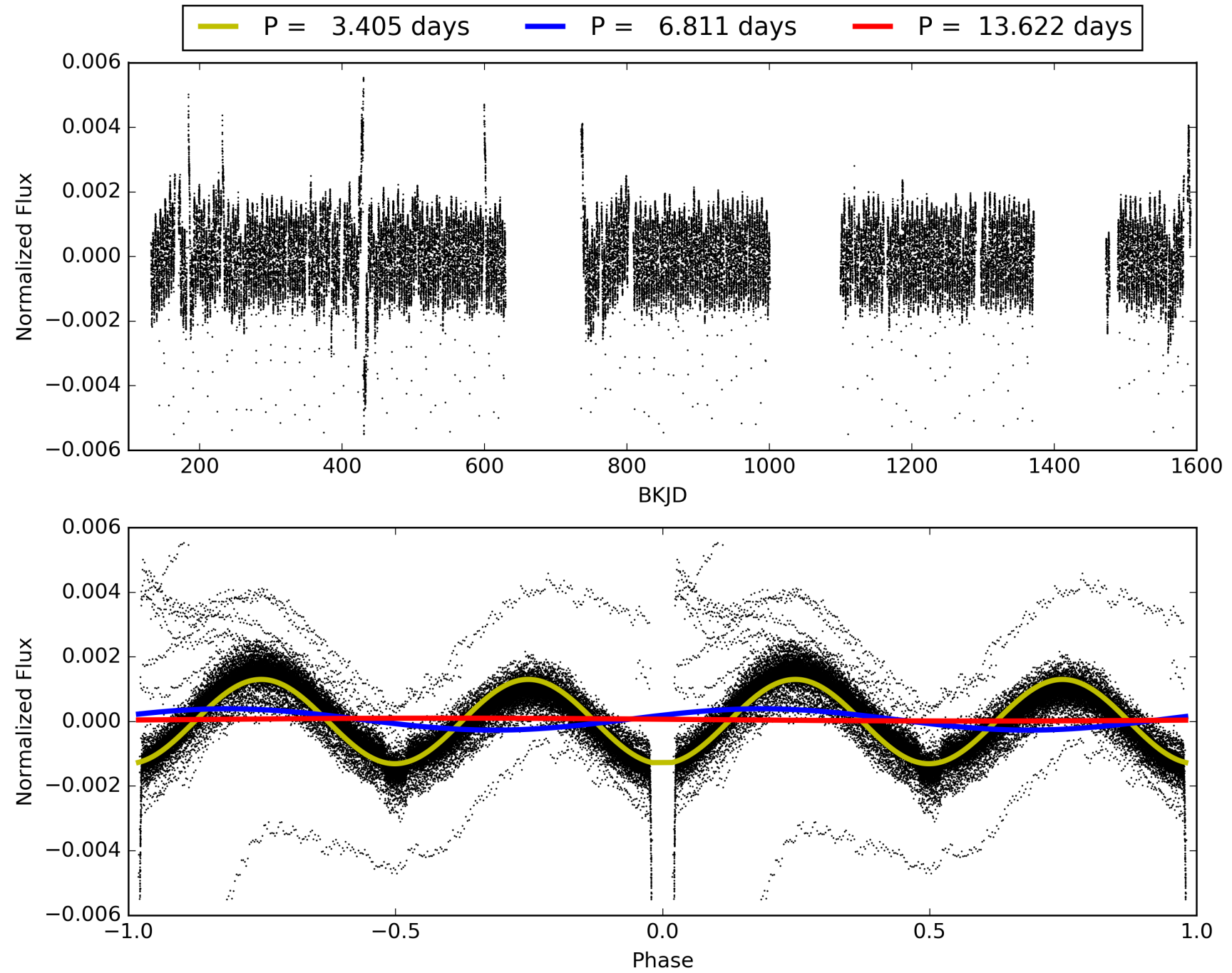
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:50:05 Z

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

TCE 010295951-01, PDC Light Curves

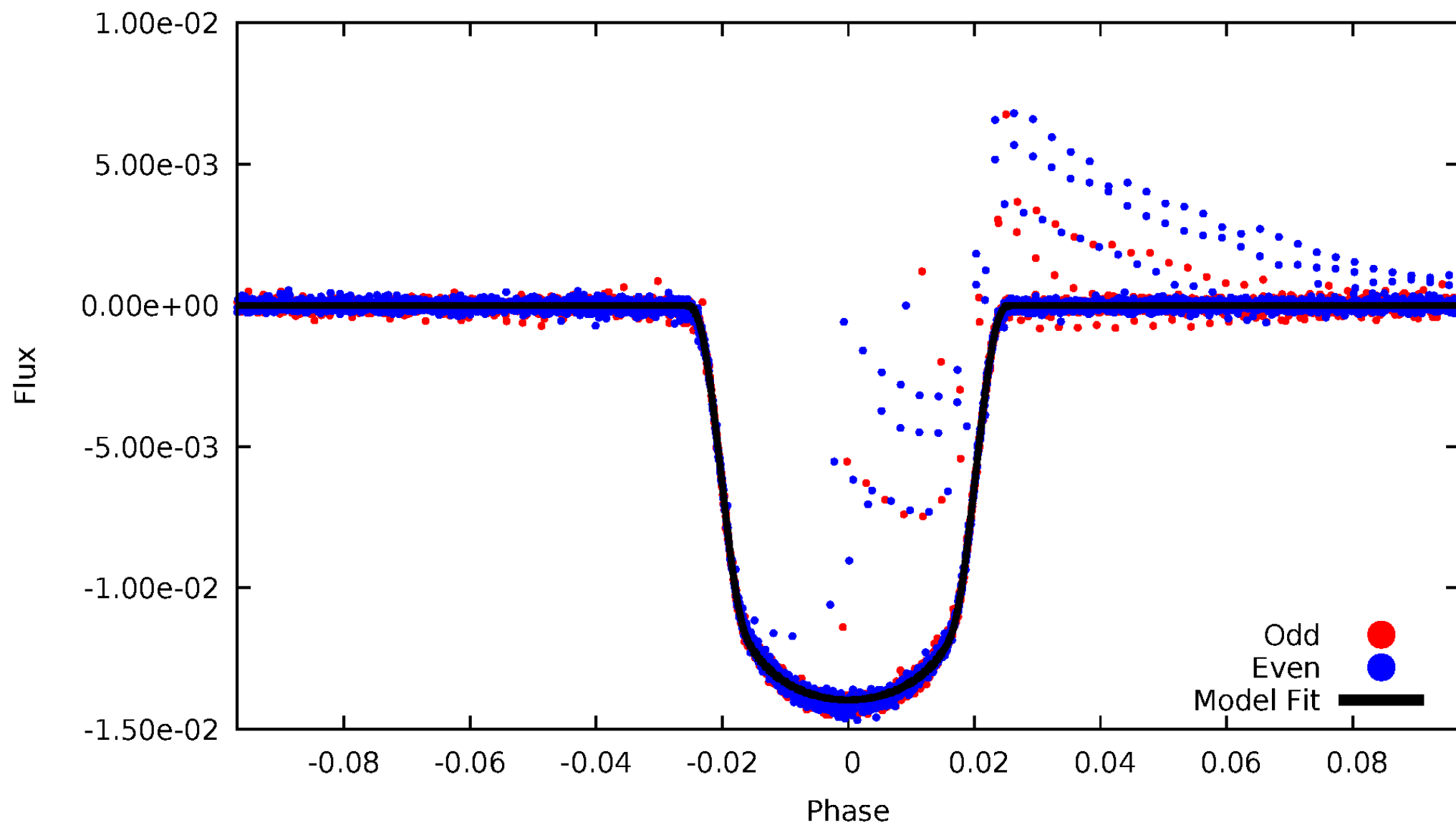


TCE 010295951-01



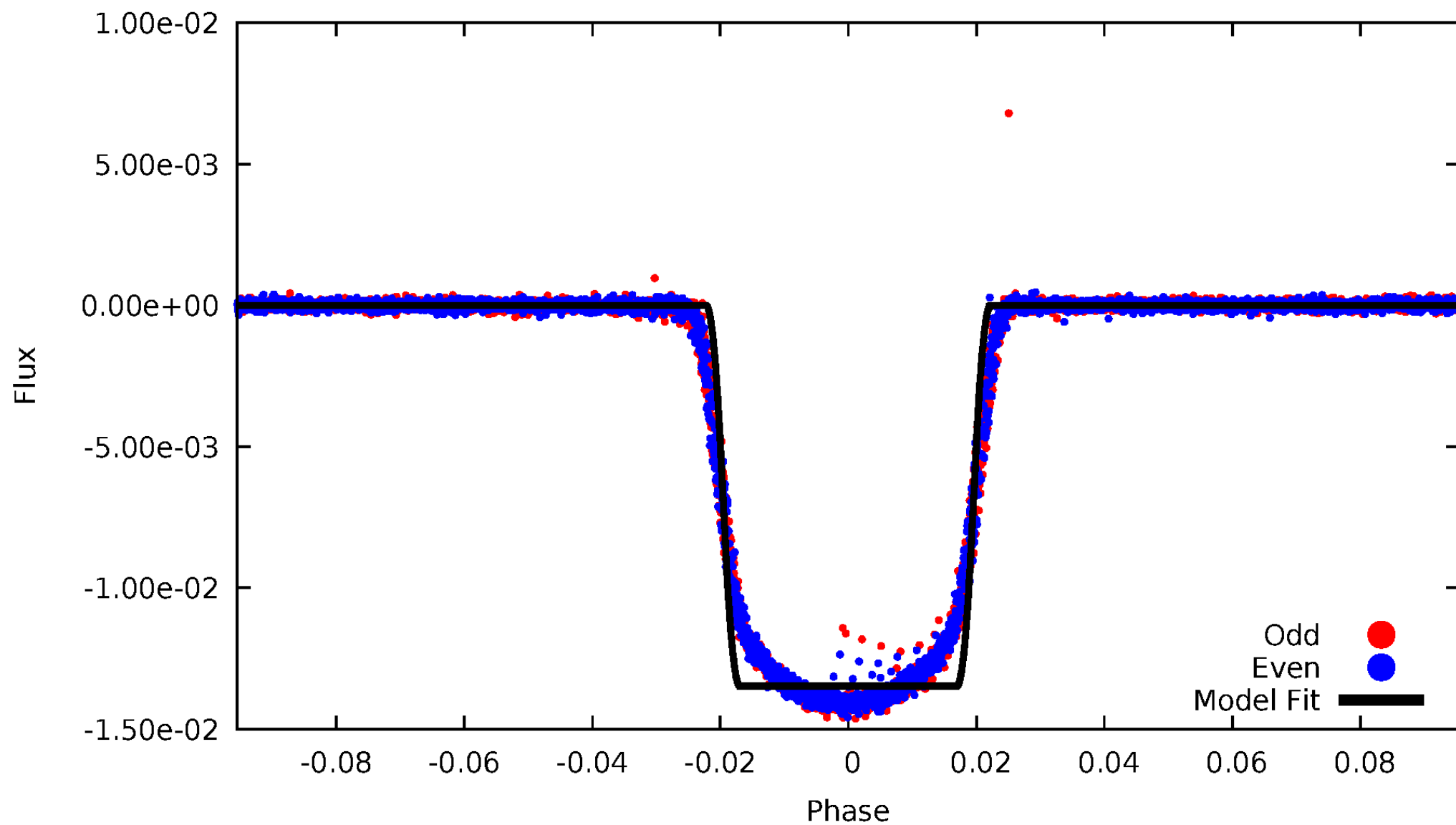
DV Odd/Even

TCE 010295951-01



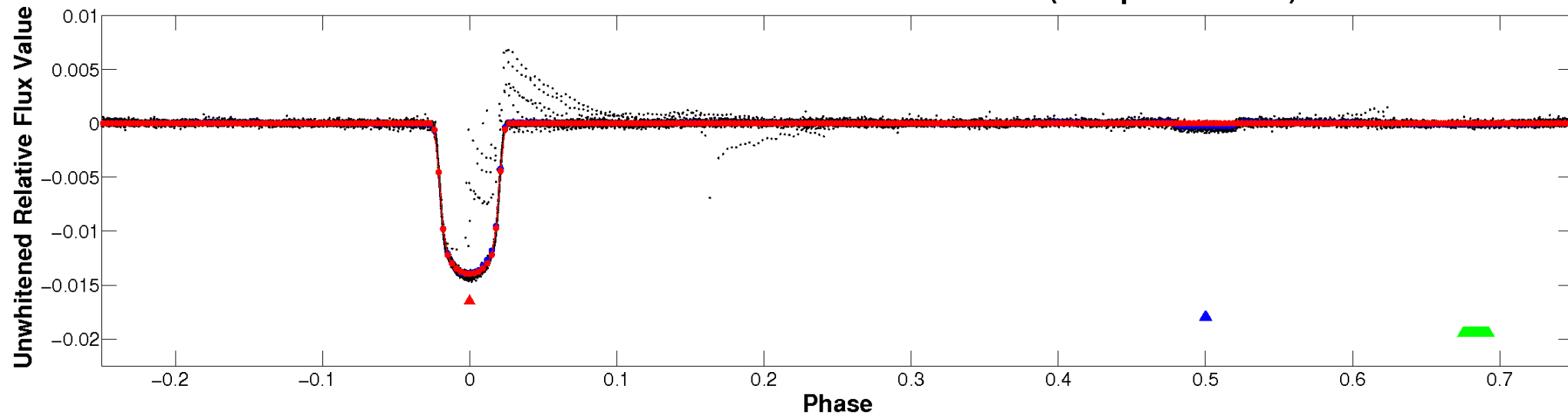
ALT Odd/Even

TCE 010295951-01

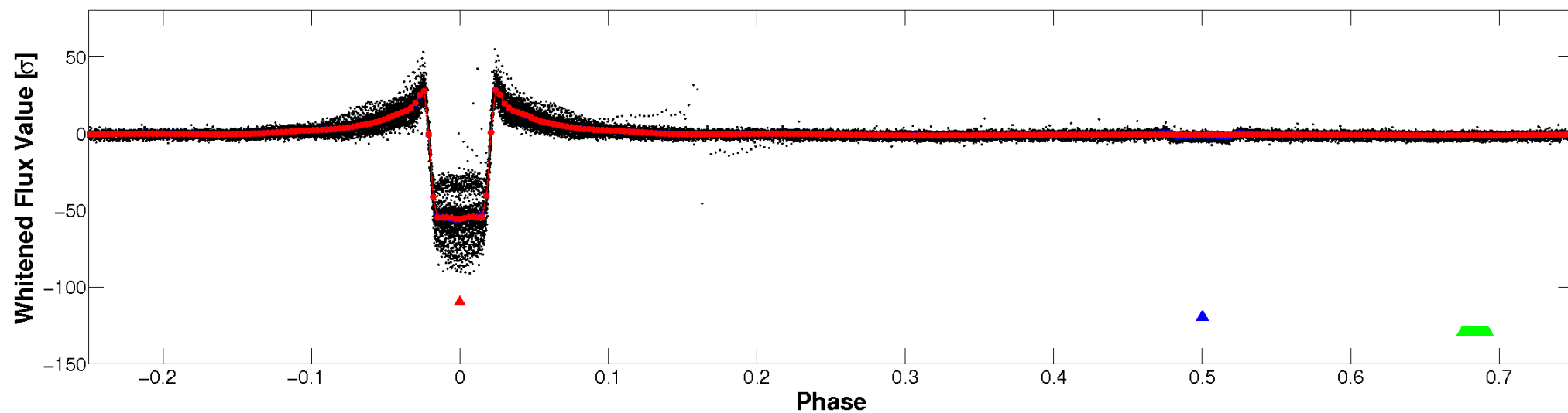


Non-Whitened Vs. Whitened Light Curve

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

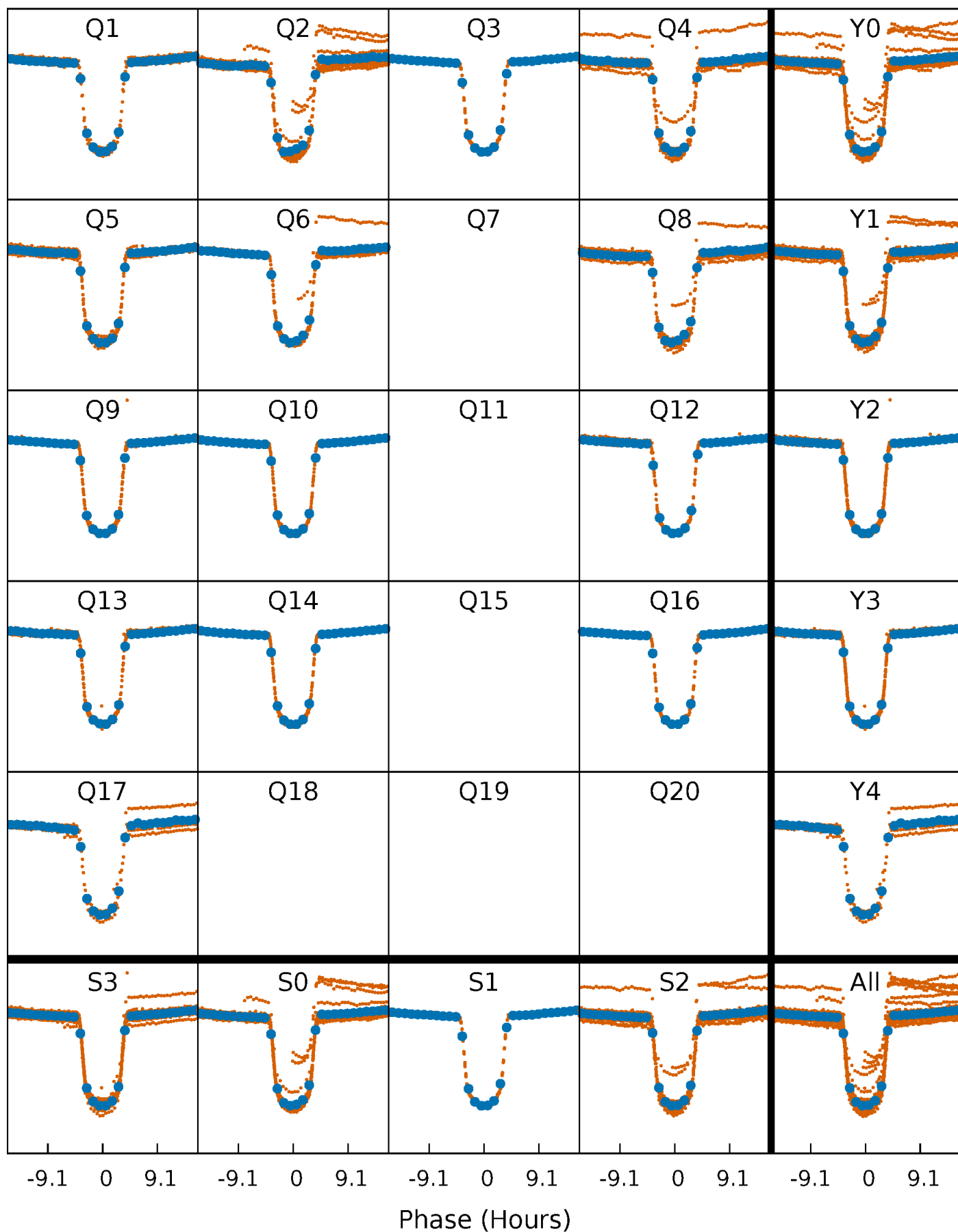


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



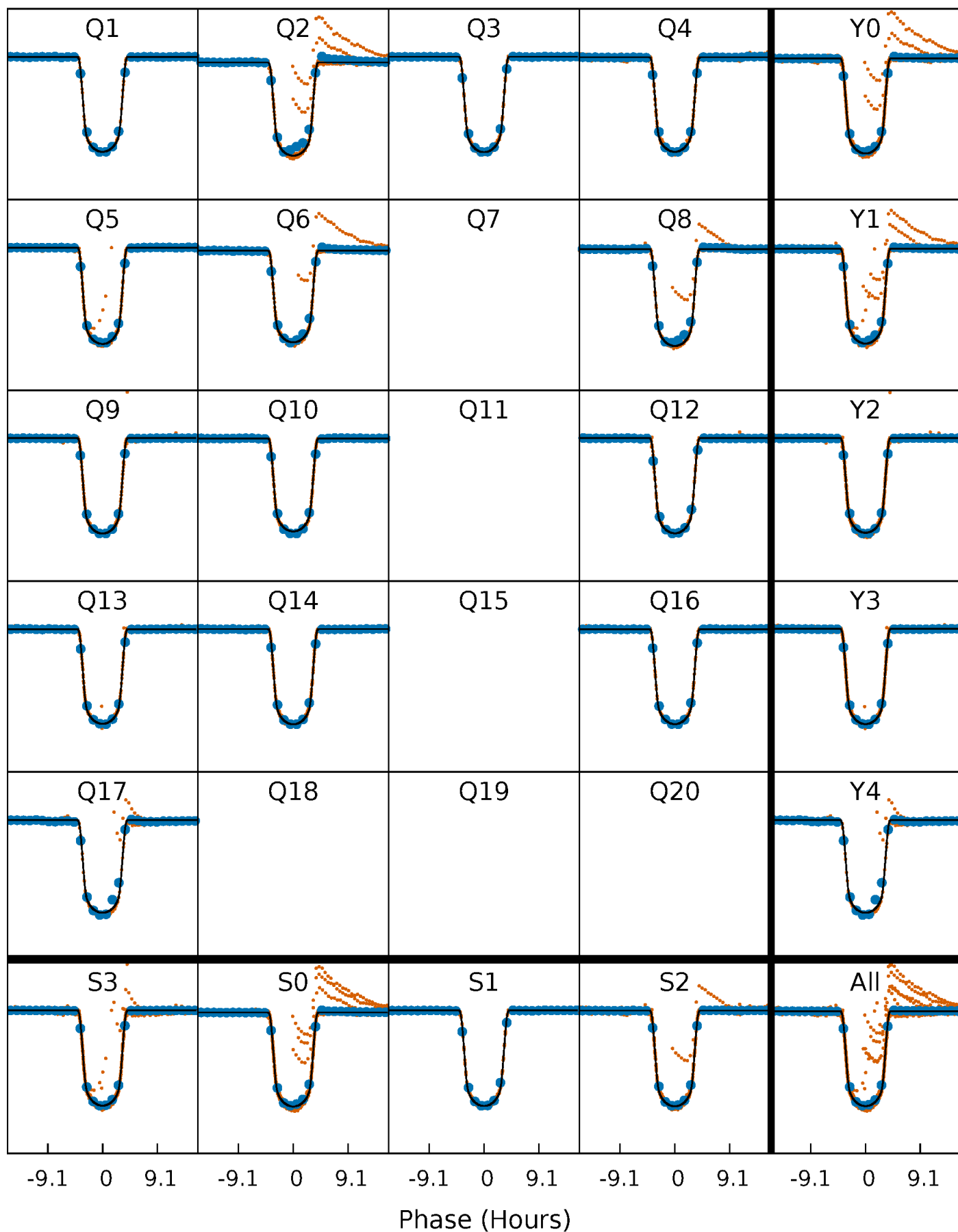
PDC Quarter-Phased Transit Curves

TCE 010295951-01 P= 6.810825 Days $T_0=136.046873$ (BKJD)



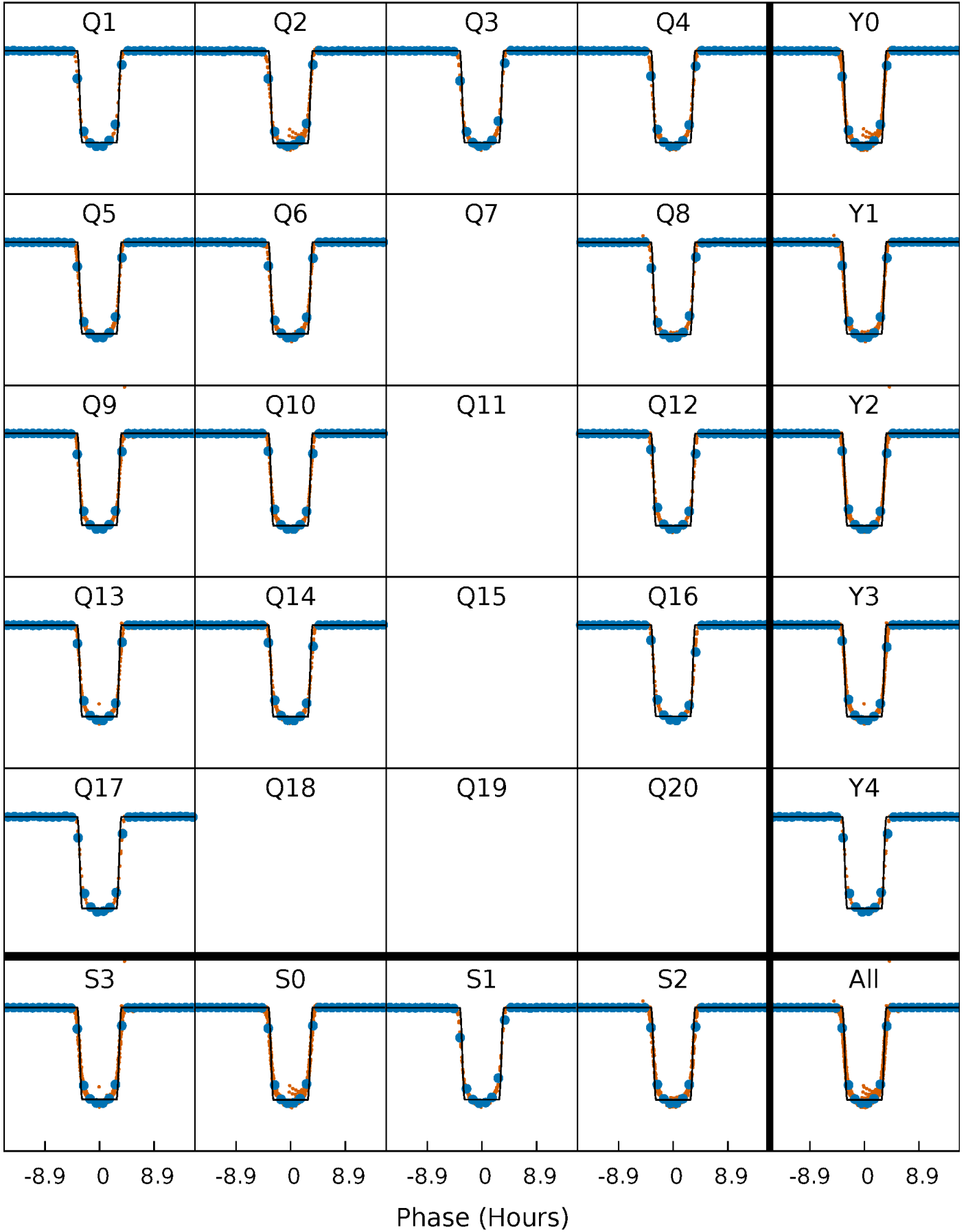
DV Quarter-Phased Transit Curves

TCE 010295951-01 P= 6.810825 Days $T_0=136.046873$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

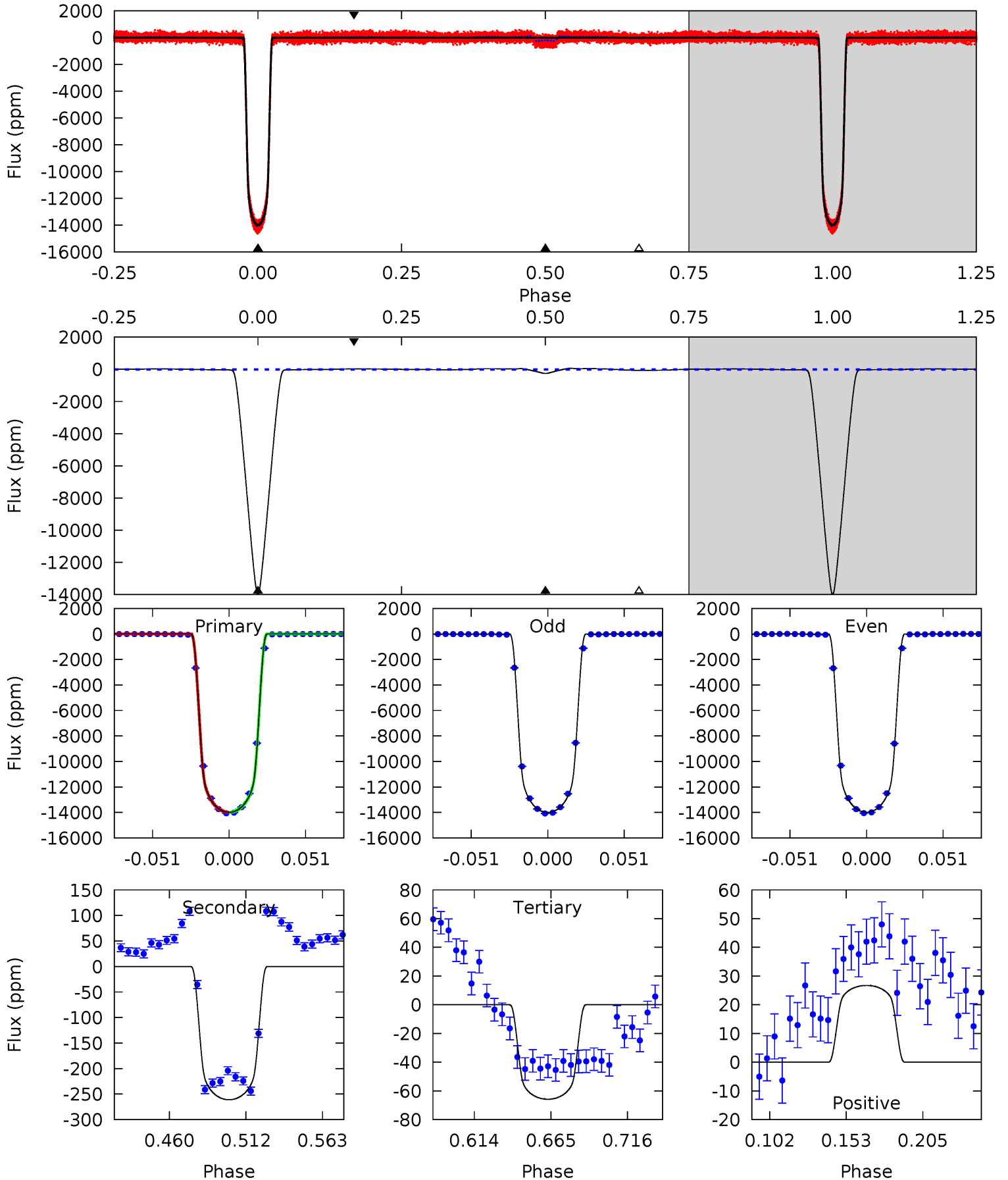
TCE 010295951-01 P= 6.810774 Days $T_0=136.051811$ (BKJD)



DV Model-Shift Uniqueness Test

010295951-01, P = 6.810825 Days, E = 129.236048 Days

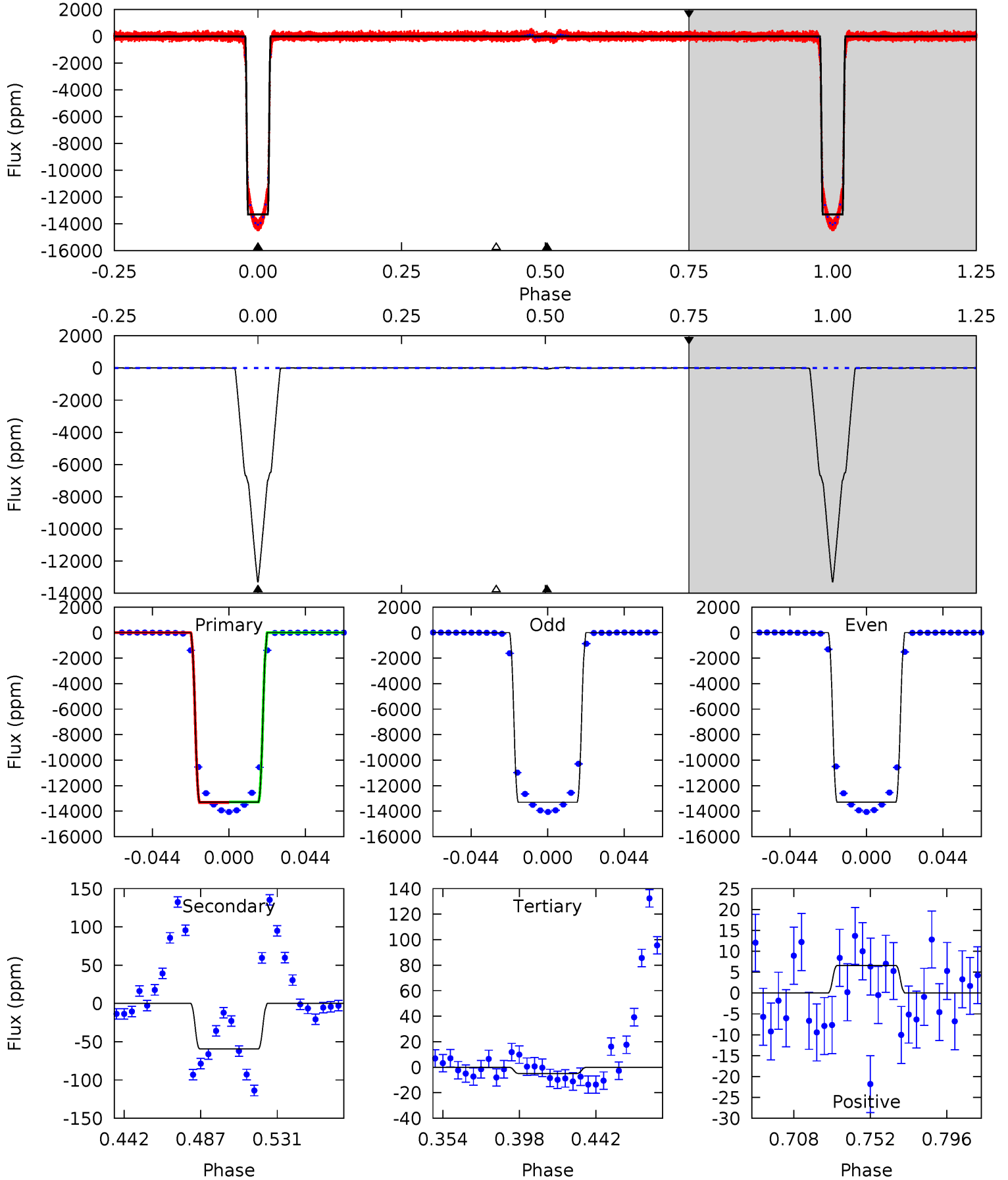
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5575	104.0	26.2	10.7	4.70	1.95	10.8	5549	5564	77.8	93.4	2.36	0.98	0.00	0.37



Alt Model-Shift Uniqueness Test

010295951-01, P = 6.810774 Days, E = 129.241037 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5597	24.9	2.06	2.77	4.73	2.01	1.38	5594	5594	22.9	22.2	0.24	1.00	0.00	5.94



Stellar Parameters For KIC 010295951

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7226^{+228}_{-304}	$3.967^{+0.315}_{-0.135}$	$-0.400^{+0.300}_{-0.300}$	$2.079^{+0.507}_{-0.760}$	$1.461^{+0.204}_{-0.306}$	$0.229^{+0.505}_{-0.088}$
	+3%/-4%	+8%/-3%	+75%/-75%	+24%/-37%	+14%/-21%	+221%/-38%
Source	KIC0	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 010295951-01 / KOI 1154.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-261 ± 3	$25.15^{+3.73}_{-5.07}$	2227^{+185}_{-221}	3151^{+73}_{-75}	$1.456^{+0.678}_{-0.339}$
Alt.	-59 ± 2	$25.83^{+3.87}_{-4.86}$	2246^{+165}_{-216}	1851^{+473}_{-4095}	$0.312^{+0.141}_{-0.073}$

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

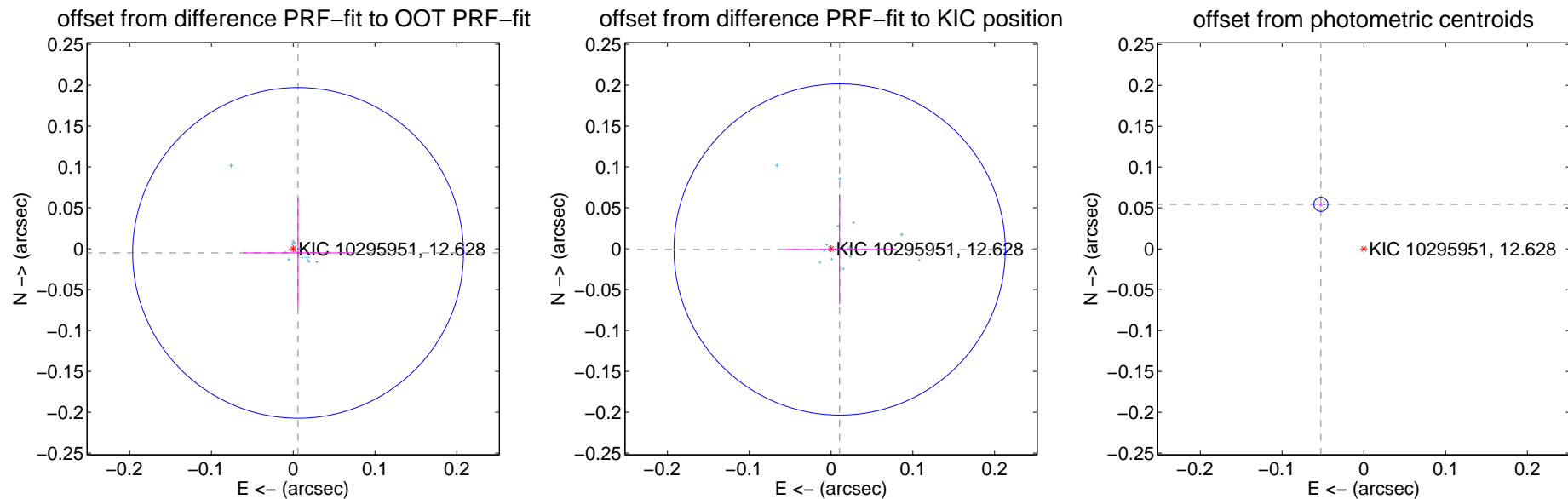
DV Centroid Data

Supplemental centroid analysis for 010295951-01. Kepler magnitude: 12.63. Transit SNR 2450.68

There are 14 quarters with good PRF difference image offsets

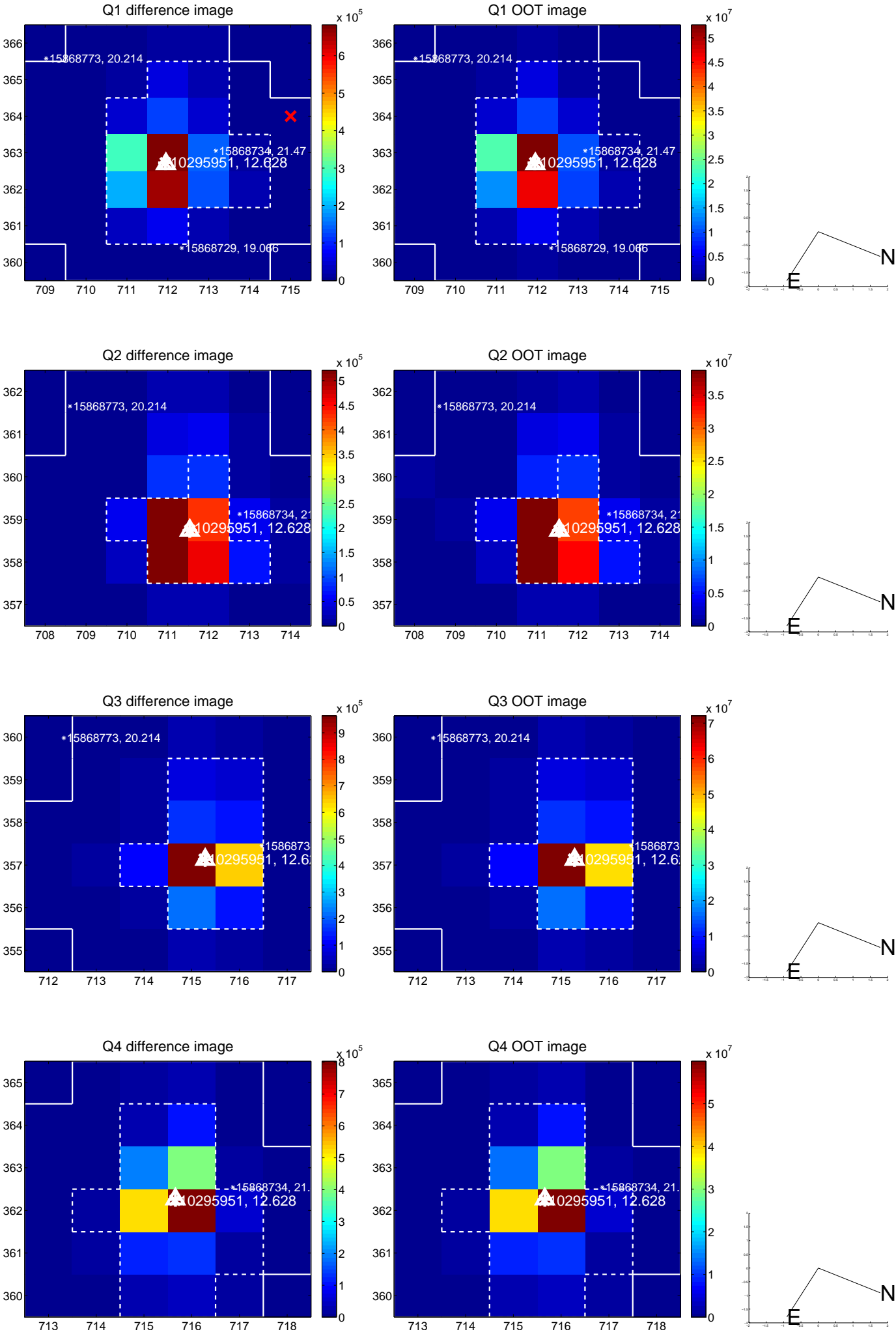
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.008 ± 0.067	0.12	-0.006 ± 0.067	-0.005 ± 0.067
PRF-fit source offset from KIC position	0.011 ± 0.068	0.16	-0.010 ± 0.067	-0.001 ± 0.067
photometric centroid source offset	0.08 ± 0.00	26.21	0.05 ± 0.00	0.05 ± 0.00

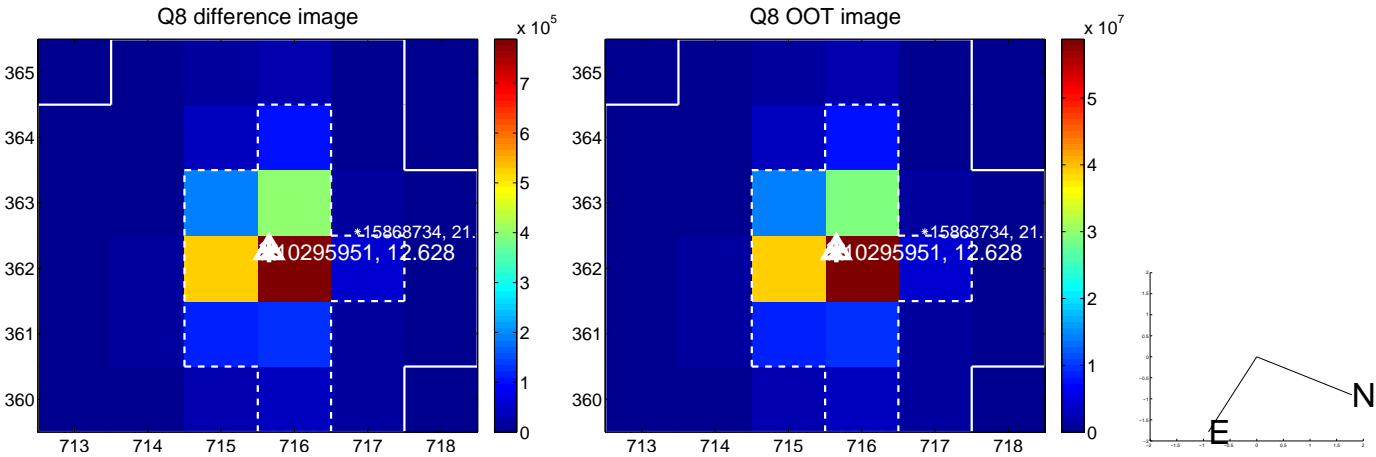
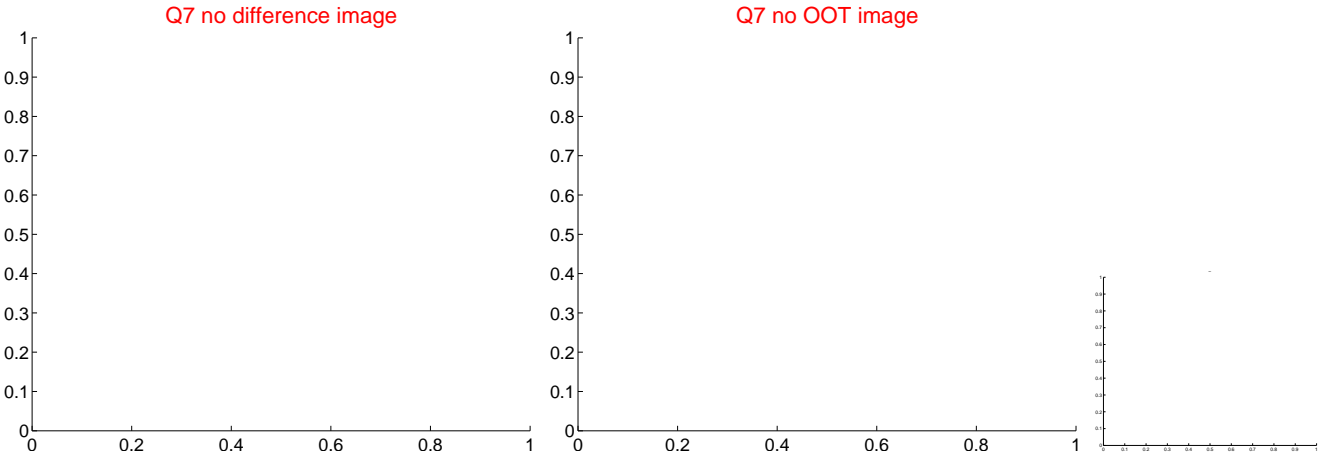
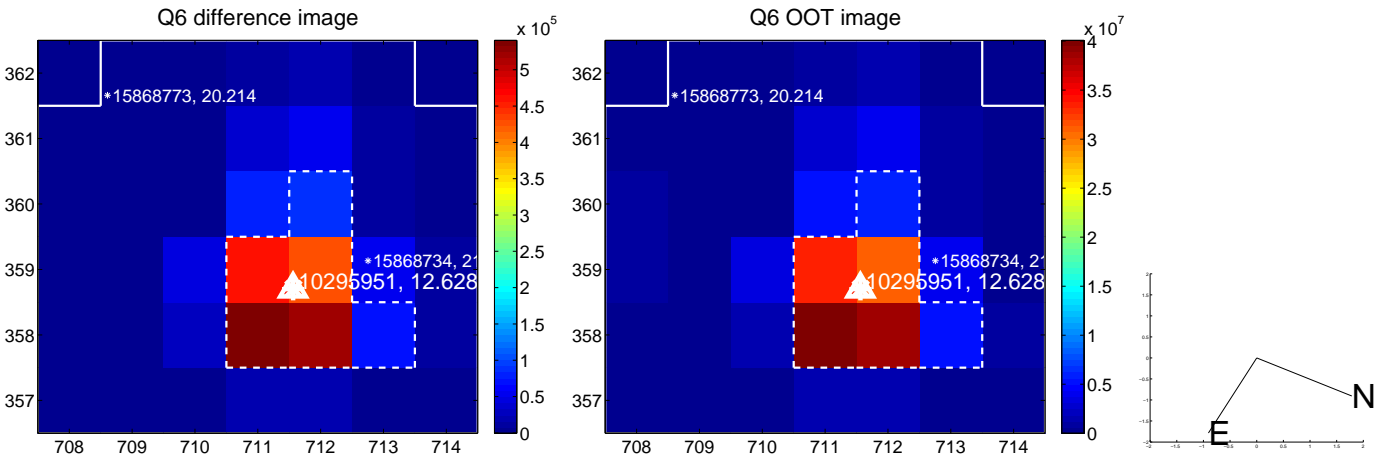
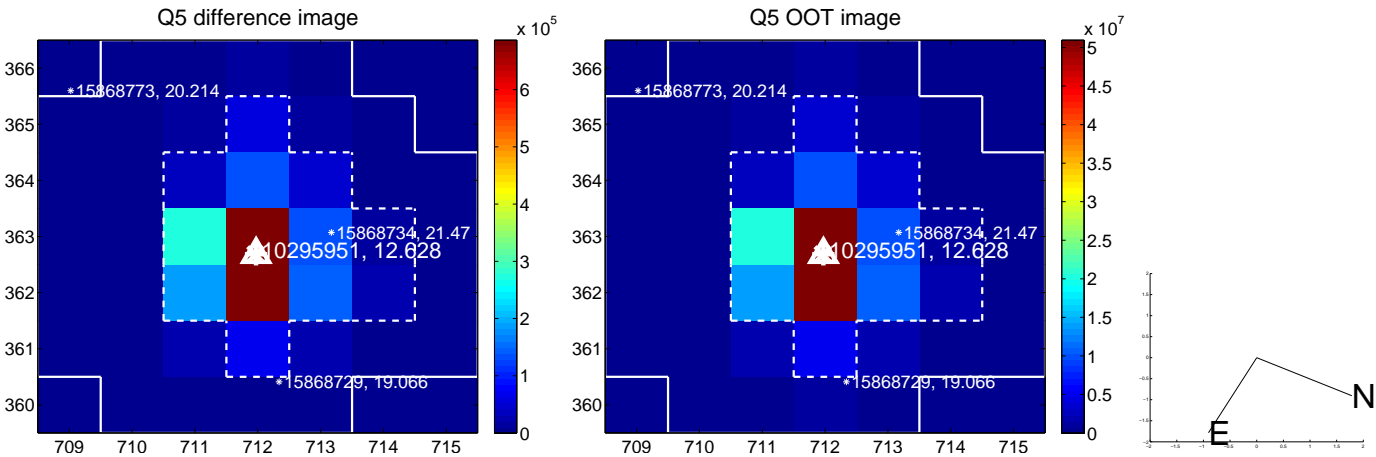


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

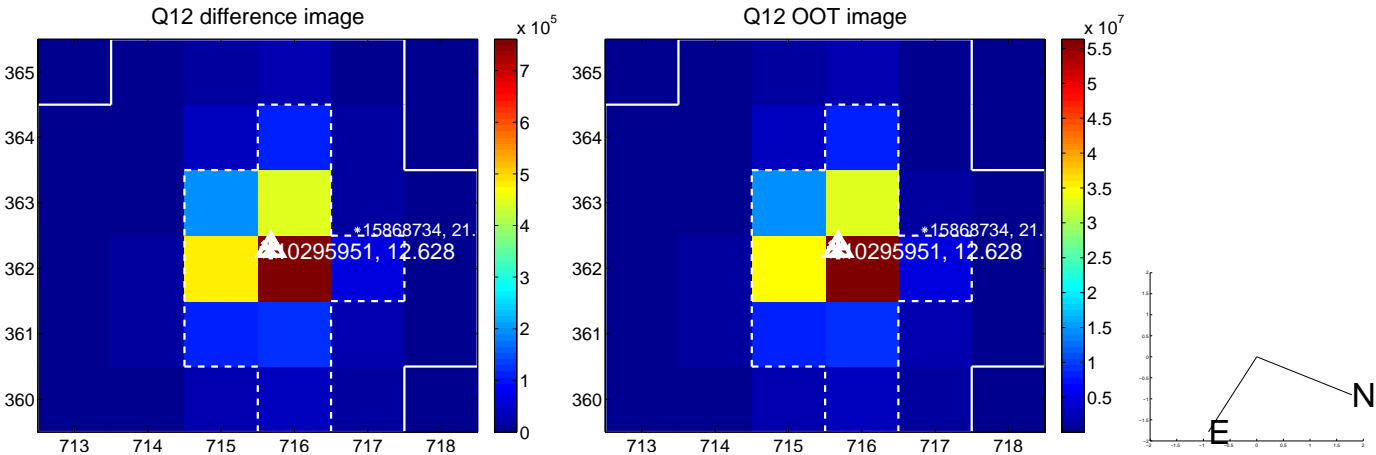
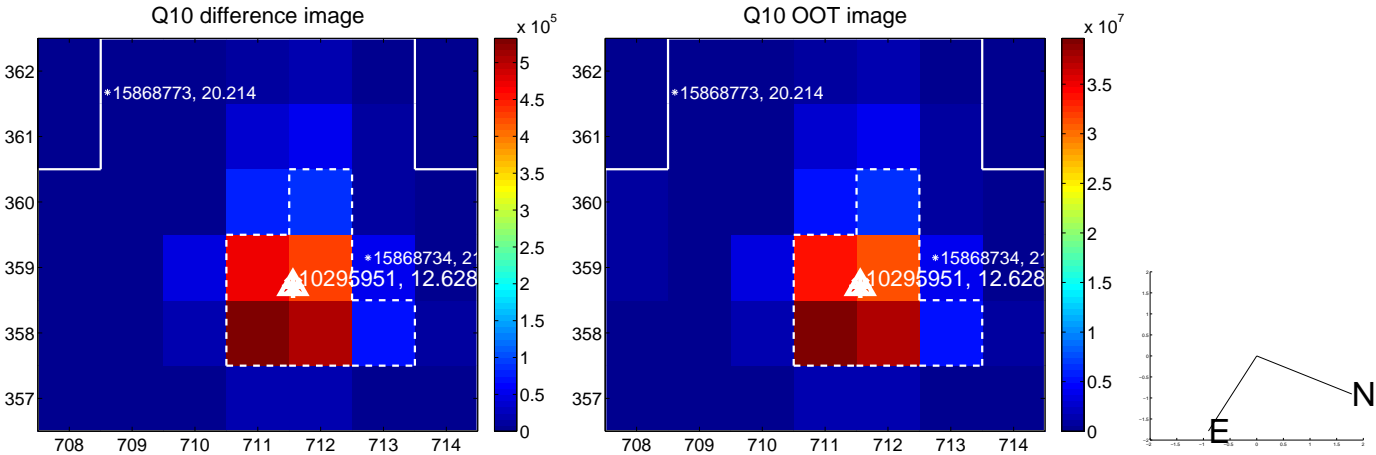
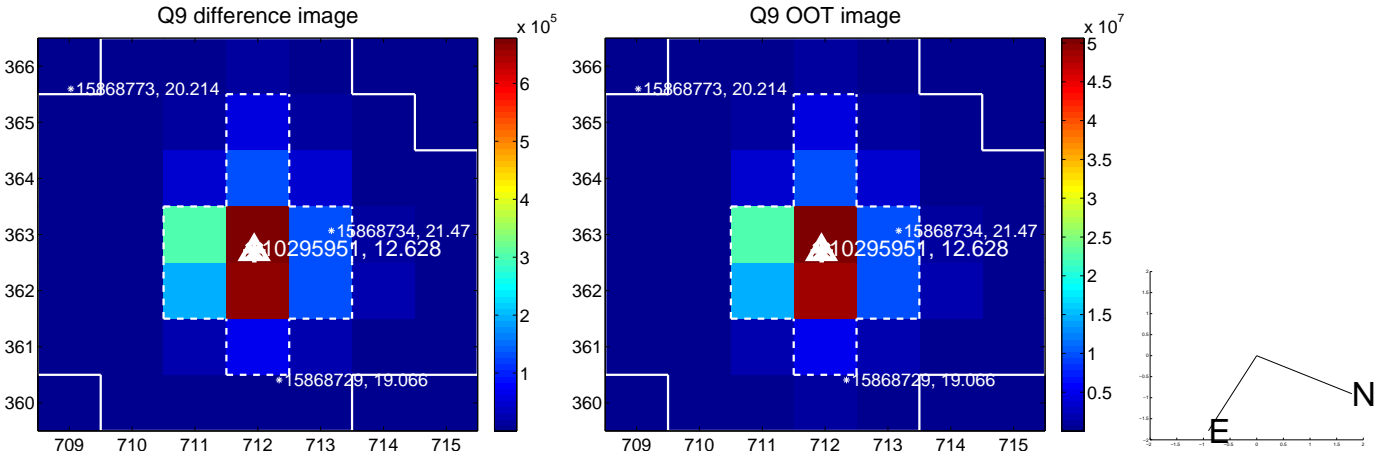
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



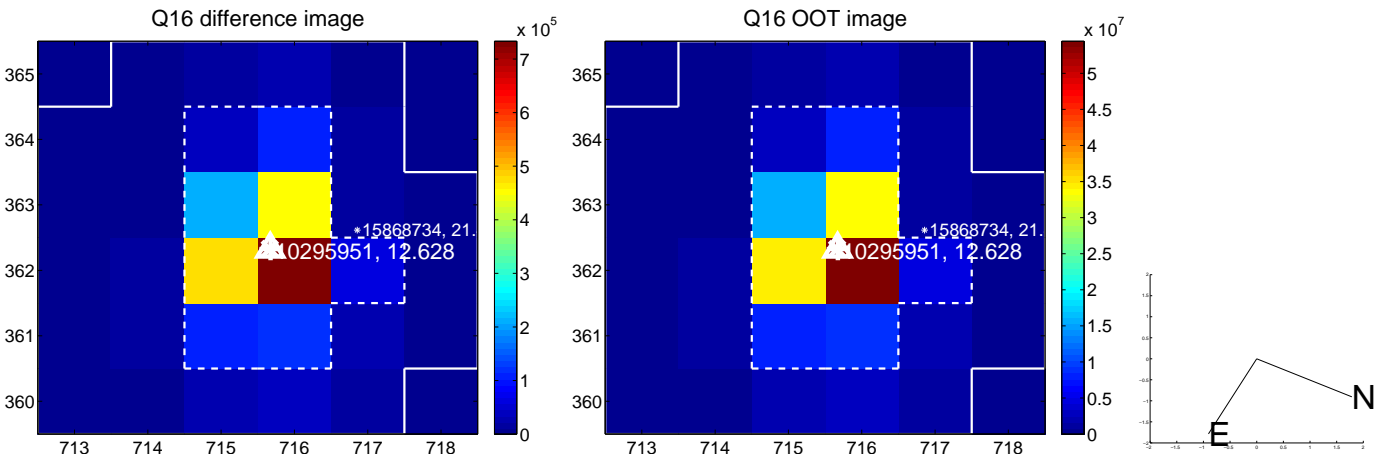
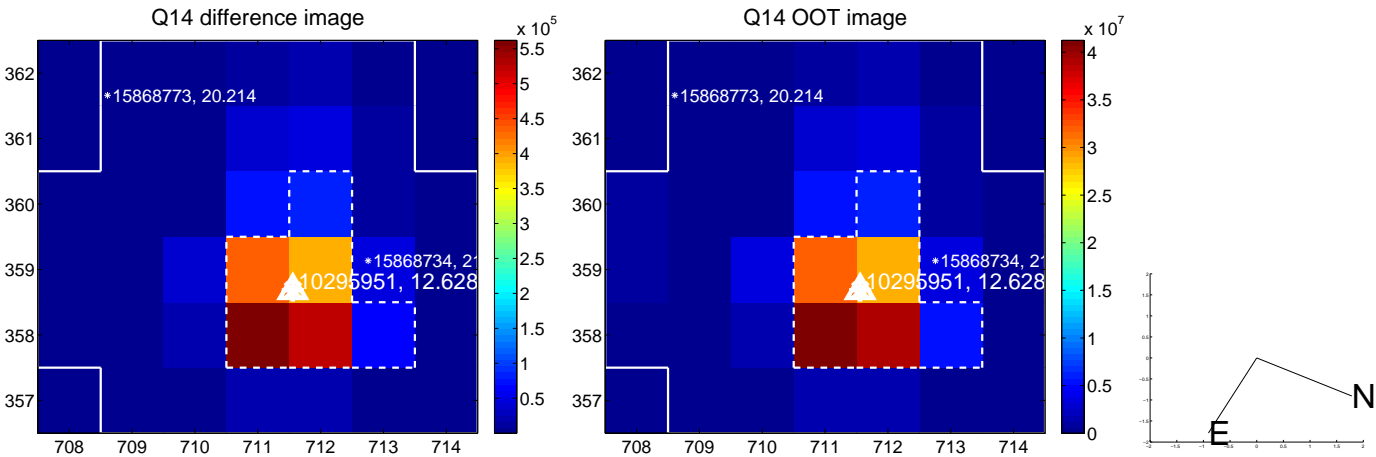
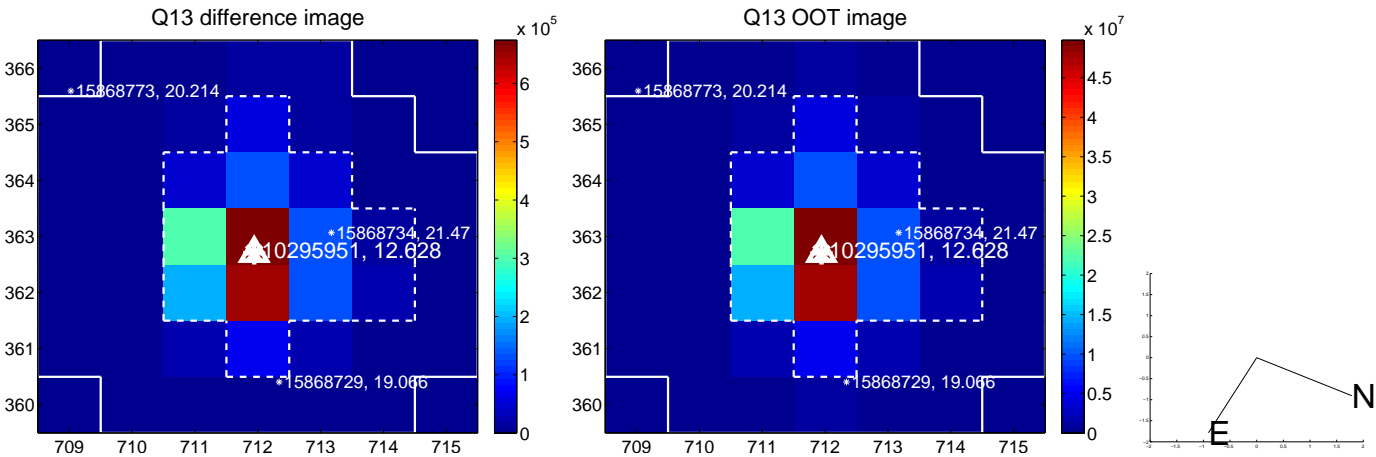
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



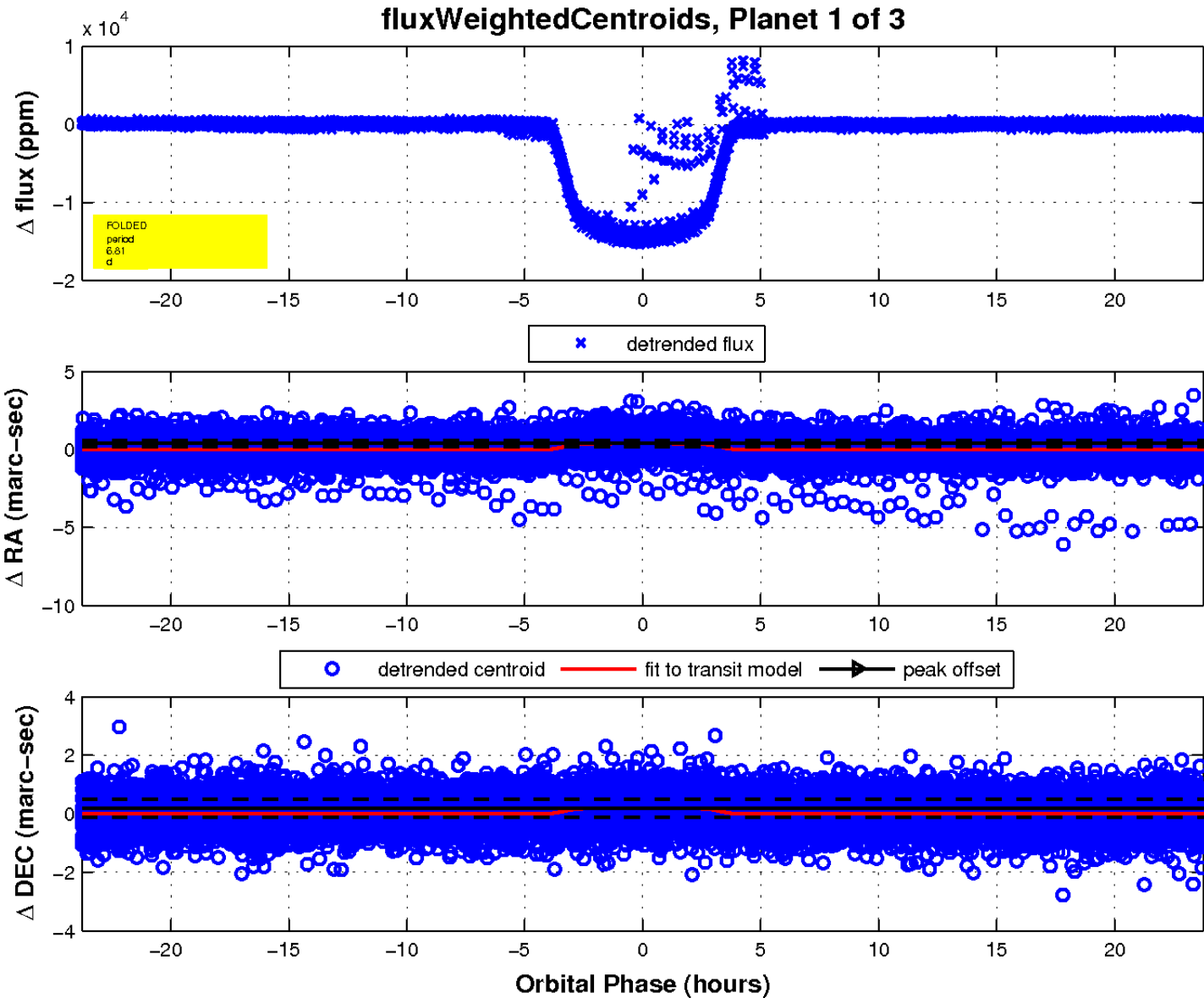
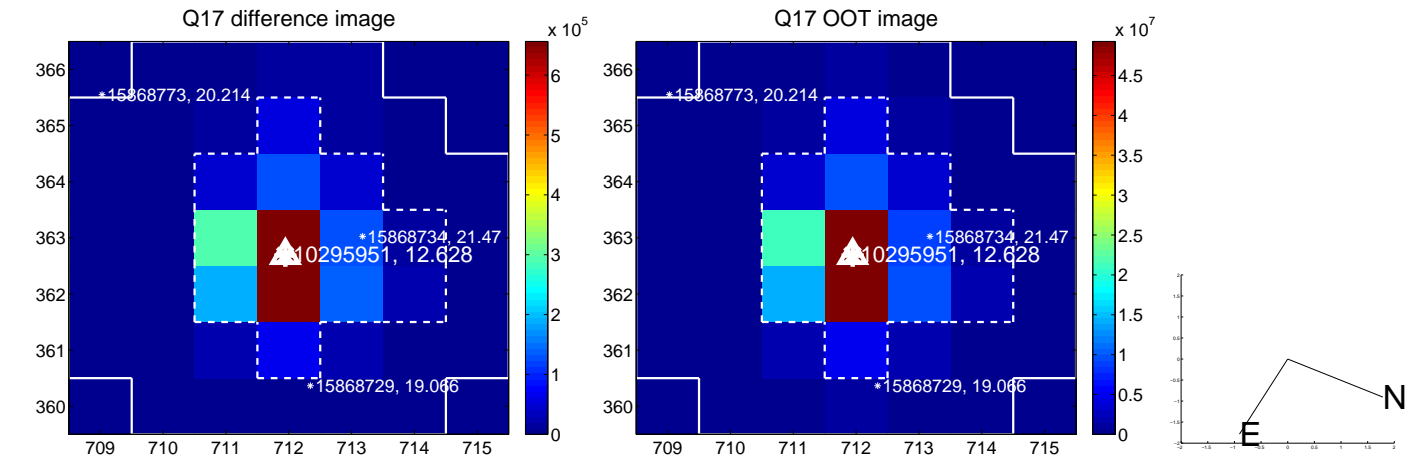
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

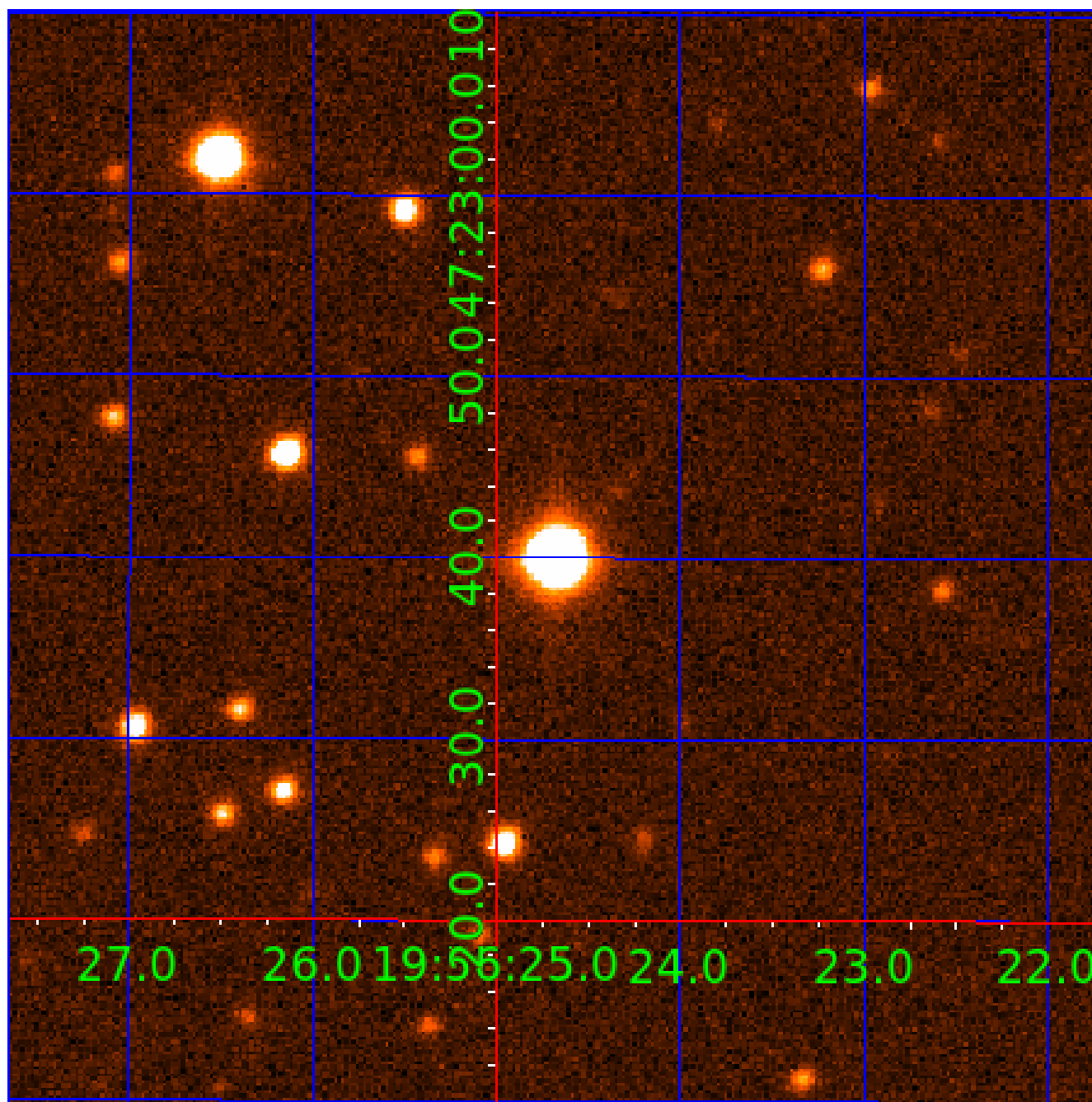


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010295951

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})
010295951-01	OBS	1154.01	6.810825	136.046873	13965.4	7.921	2688.3	2450.7	2.08	7226	25.77	1657.51
010295951-02	OBS	No	6.810797	132.645659	303.8	7.504	53.5	63.2	2.08	7226	4.16	1657.52
010295951-03	OBS	No	6.811387	133.833608	63.5	15.000	9.0	-1.0	2.08	7226	1.68	1657.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010295951-01	OBS	PC	0.87	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—PLANET_OCCULT_ALT—HAS_SEC_TCE
010295951-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
010295951-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—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.

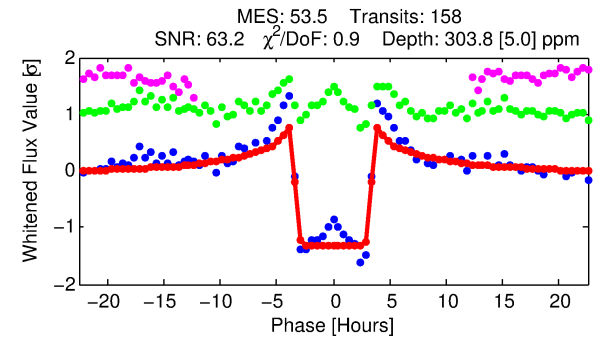
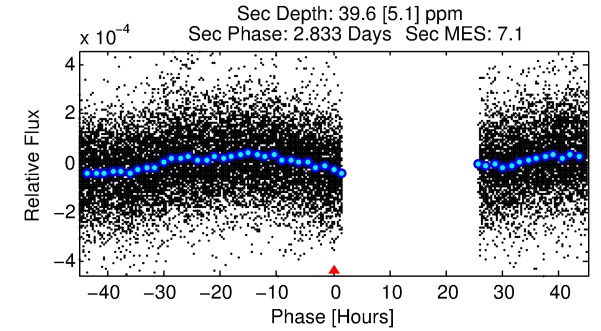
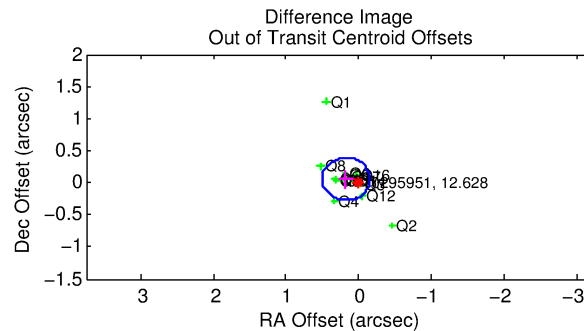
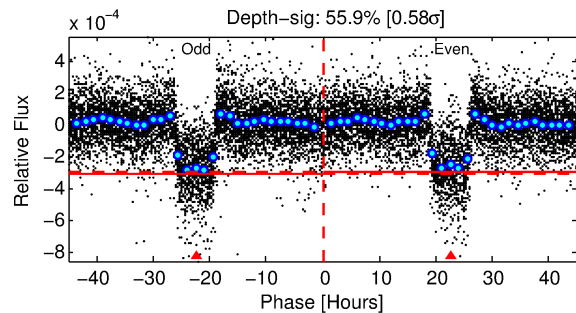
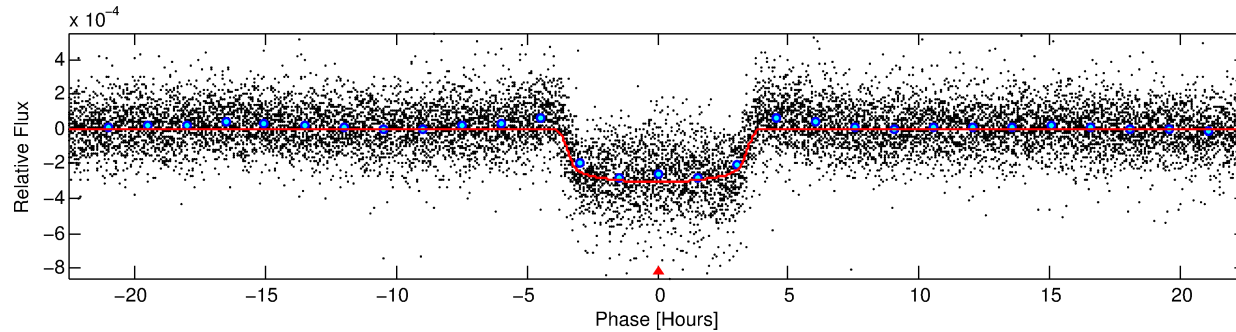
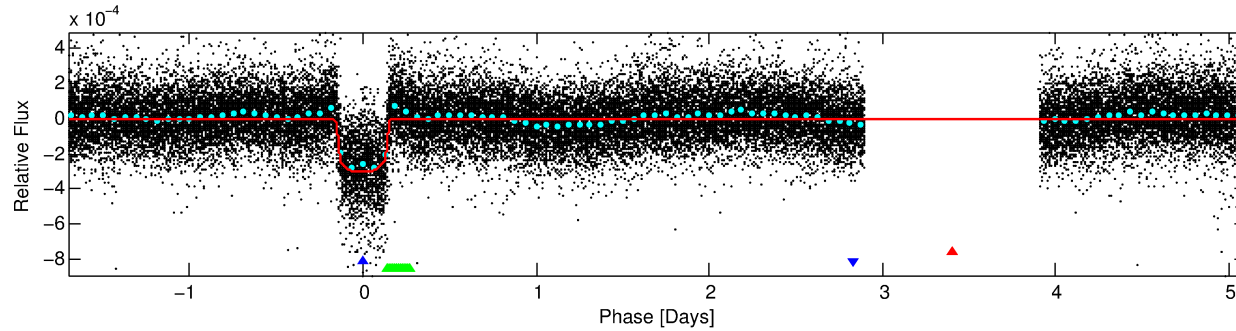
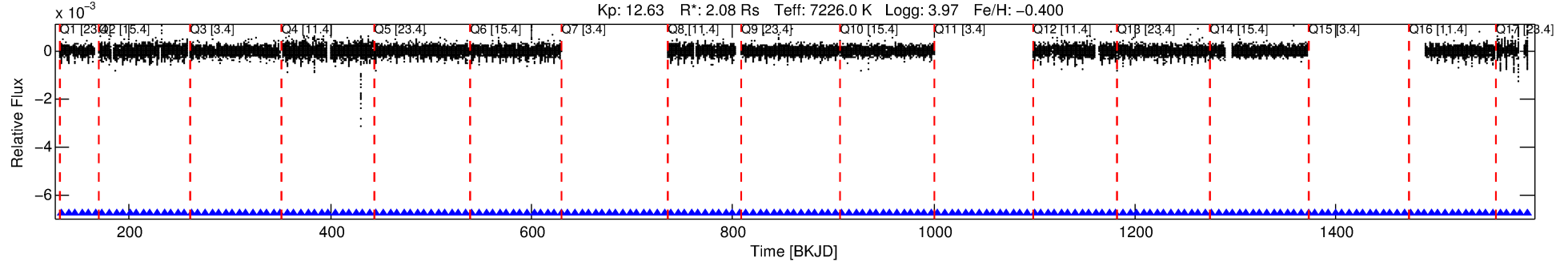
Ephemeris Match Information For 010295951-02

No Significant Match Found

DV One-Page Summary

KIC: 10295951 Candidate: 2 of 3 Period: 6.811 d
KOI: K01154 Corr: No Ephemeris Match

Kp: 12.63 R*: 2.08 Rs Teff: 7226.0 K Logg: 3.97 Fe/H: -0.400



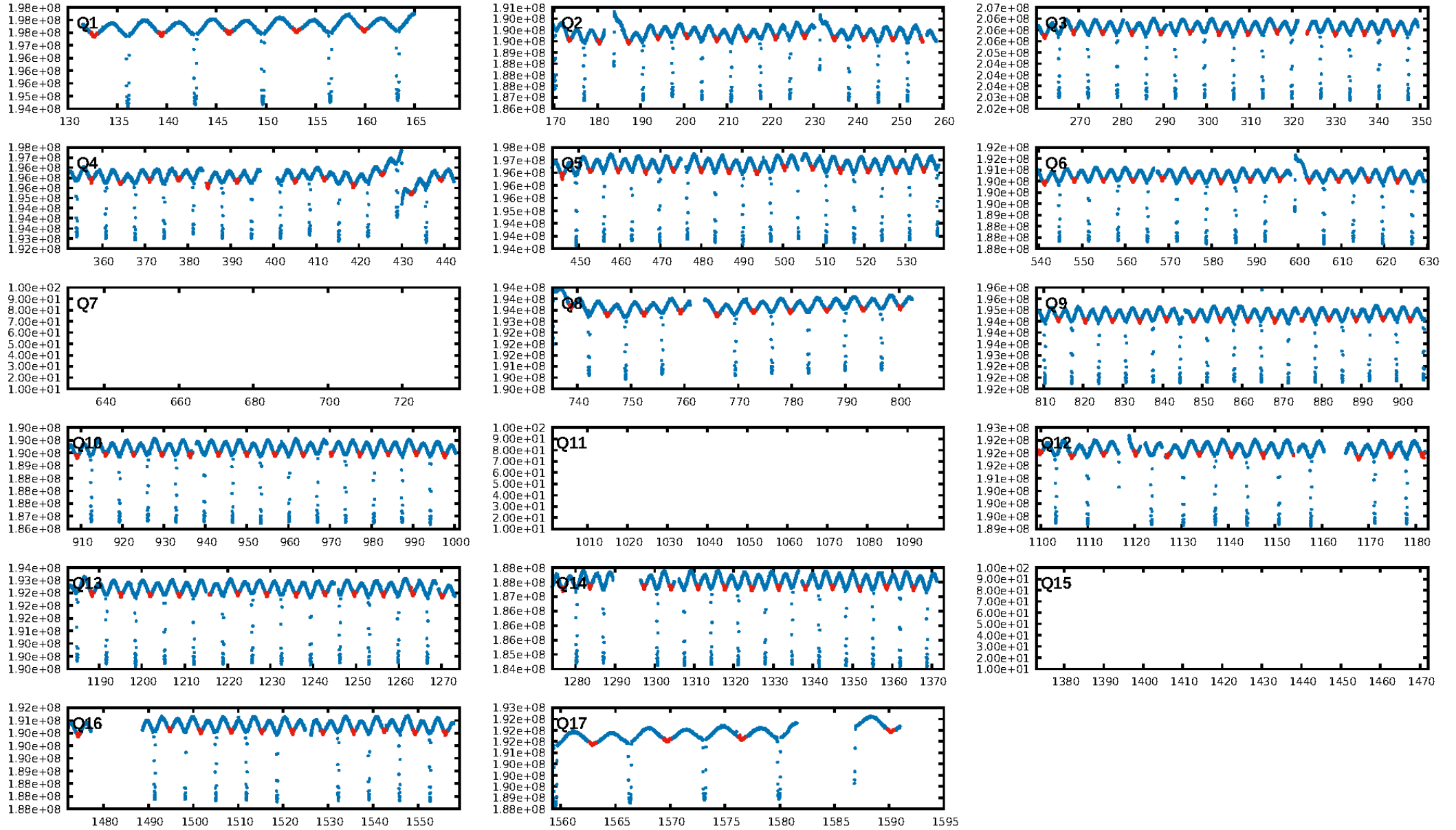
DV Fit Results:

Period = 6.81080 [0.00001] d
Epoch = 132.6457 [0.0012] BKJD
Rp/R* = 0.0183 [0.0003]
a/R* = 3.64 [0.32]
b = 0.88 [0.02]
Seff = 1657.52 [939.87]
Teq = 1627 [231] K
Rp = 4.15 [1.52] Re
a = 0.0798 [0.0274] AU
Ag = 8.04 [4.48] [1.57σ]
Teffp = 4235 [228] K [8.04σ]

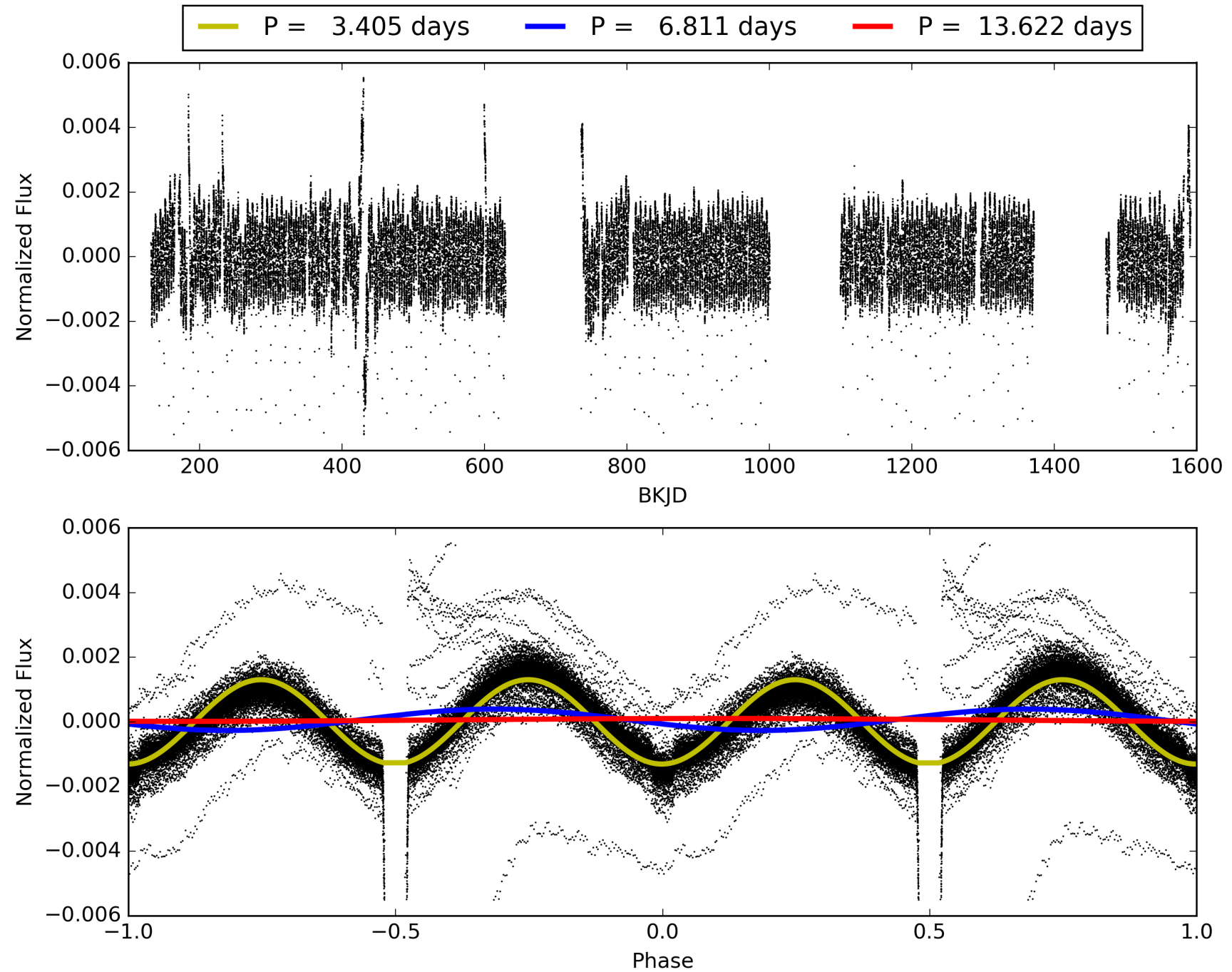
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [149/149]
GhostDiagnostic-chr: 4.24
Centroid-sig: 2.3%
Centroid-so: 0.386 arcsec [2.52σ]
OotOffset-rm: 0.184 arcsec [1.67σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-rm: 0.175 arcsec [1.70σ]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 0.00 [0/14]

TCE 010295951-02, PDC Light Curves

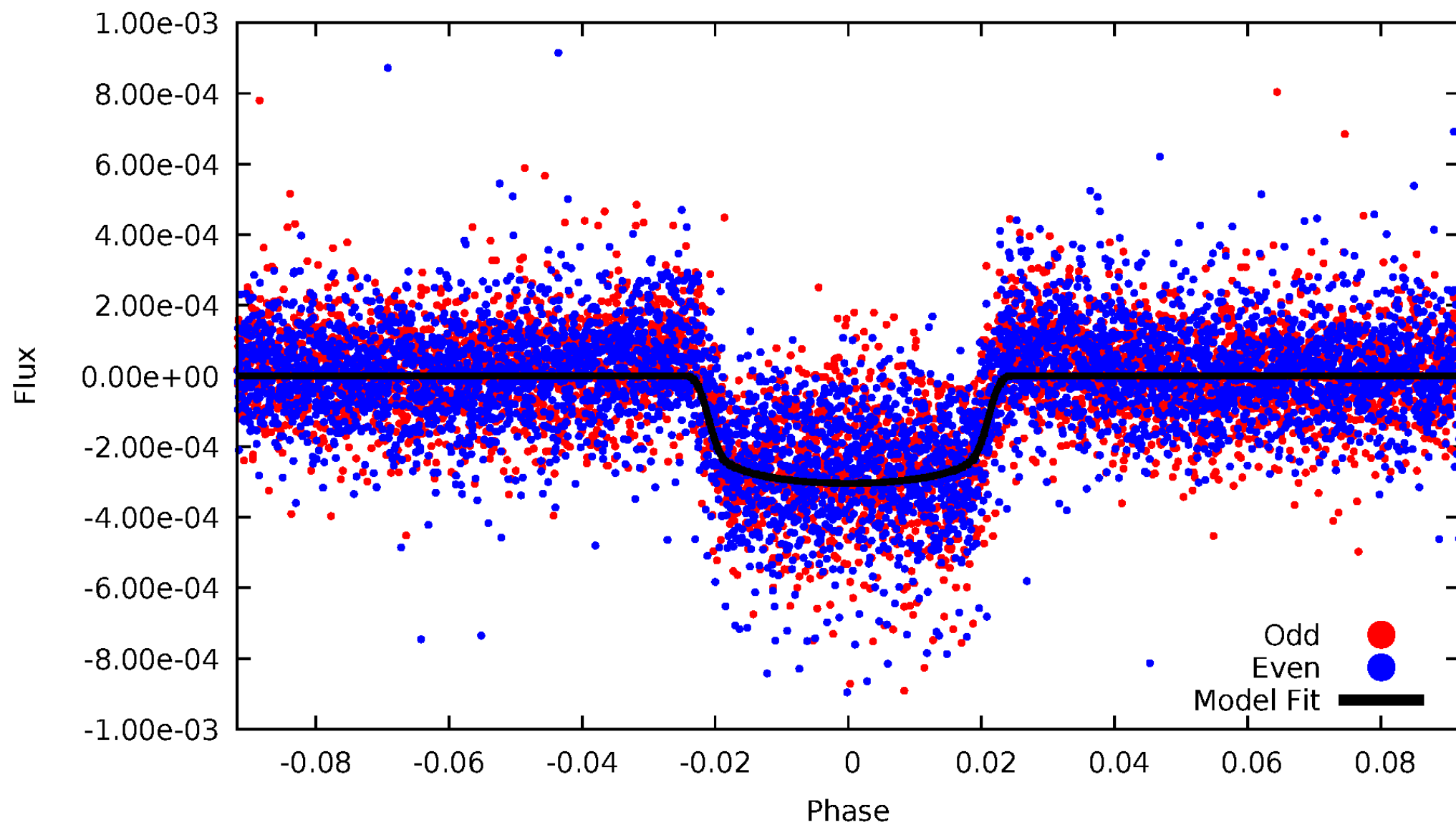


TCE 010295951-02



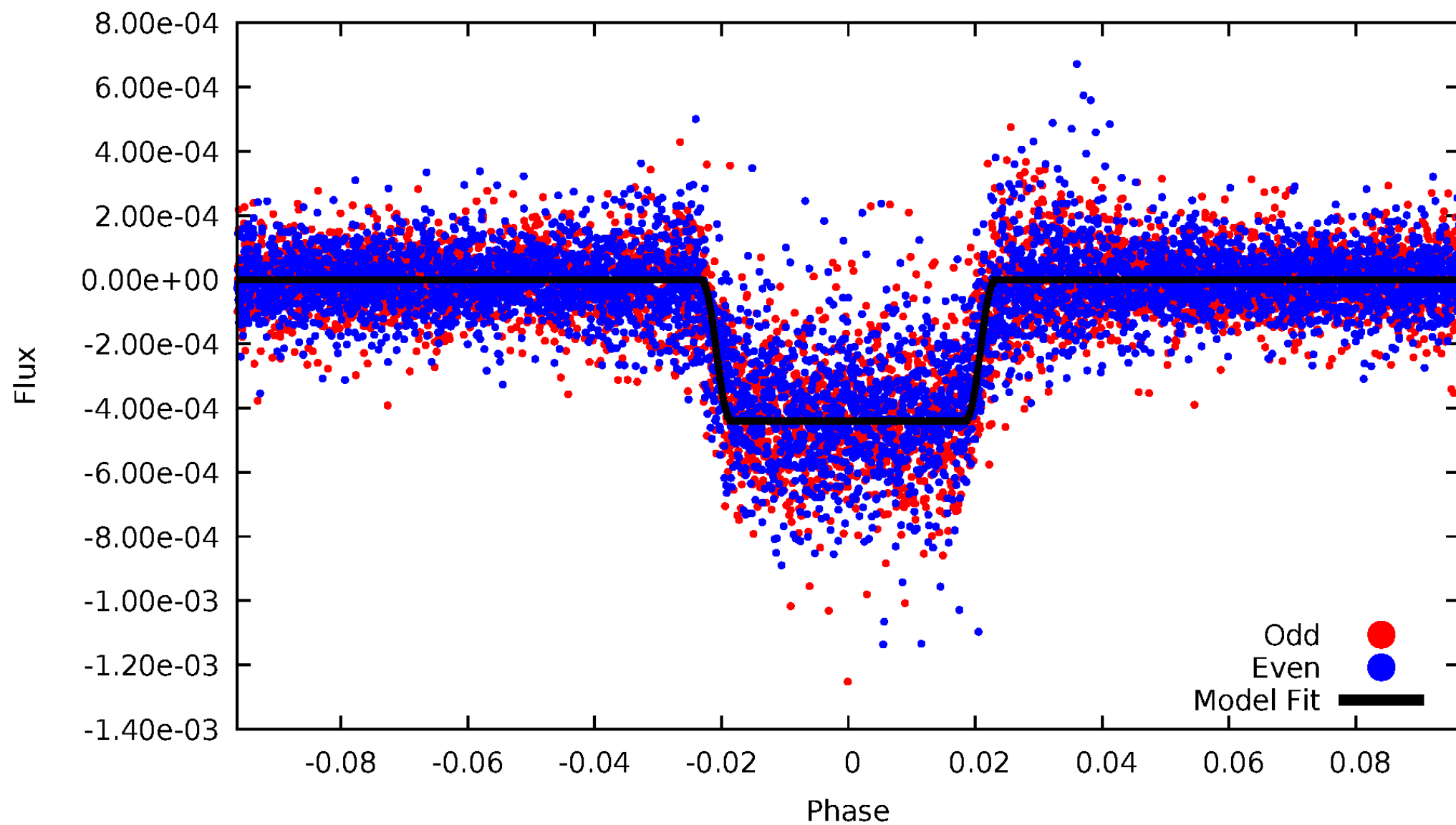
DV Odd/Even

TCE 010295951-02



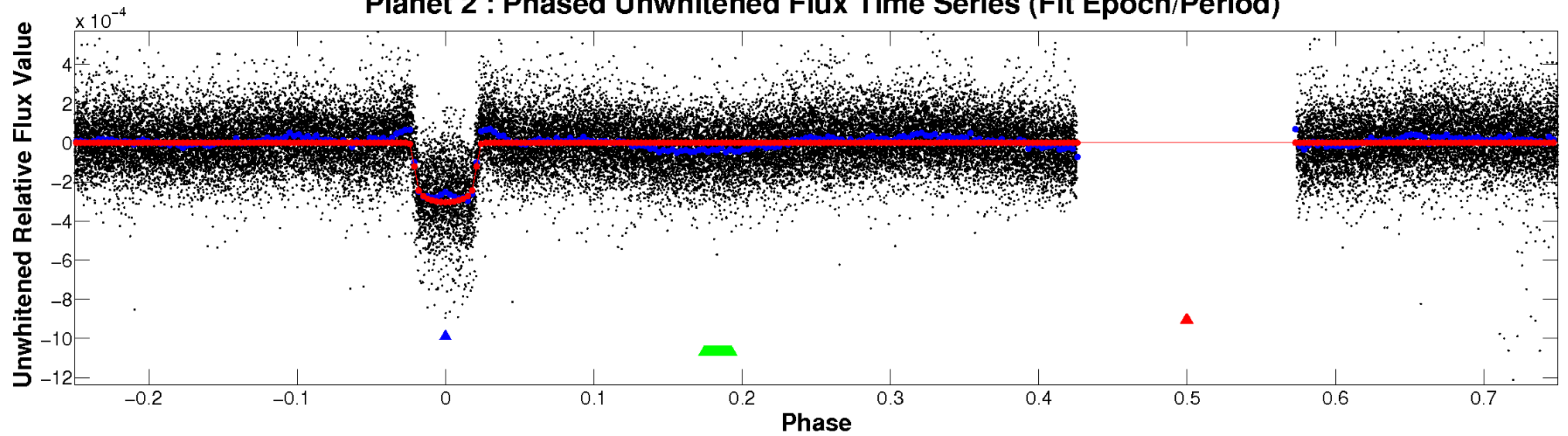
ALT Odd/Even

TCE 010295951-02

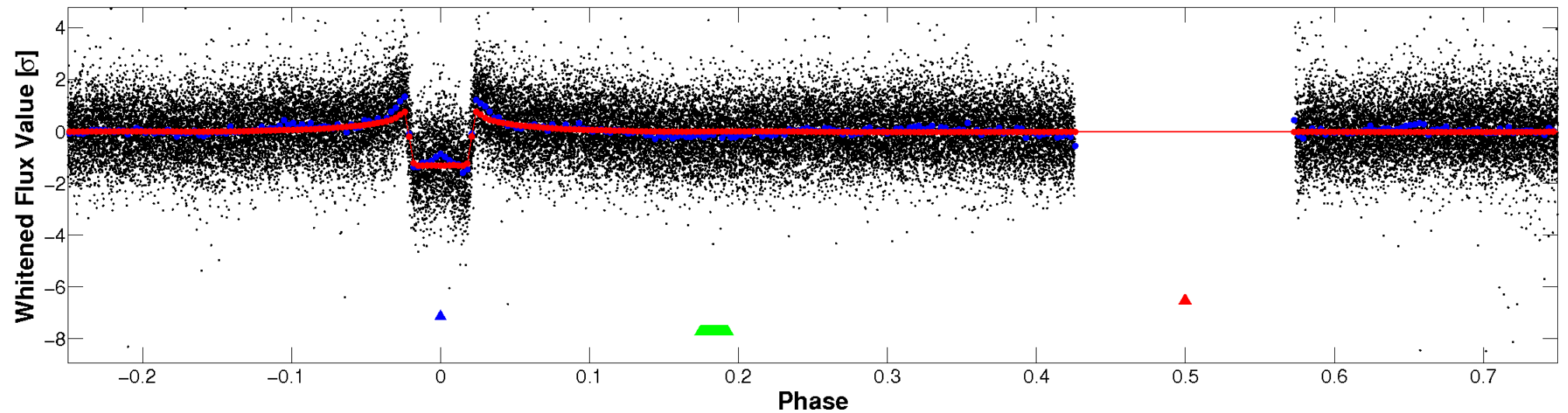


Non-Whitened Vs. Whitened Light Curve

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

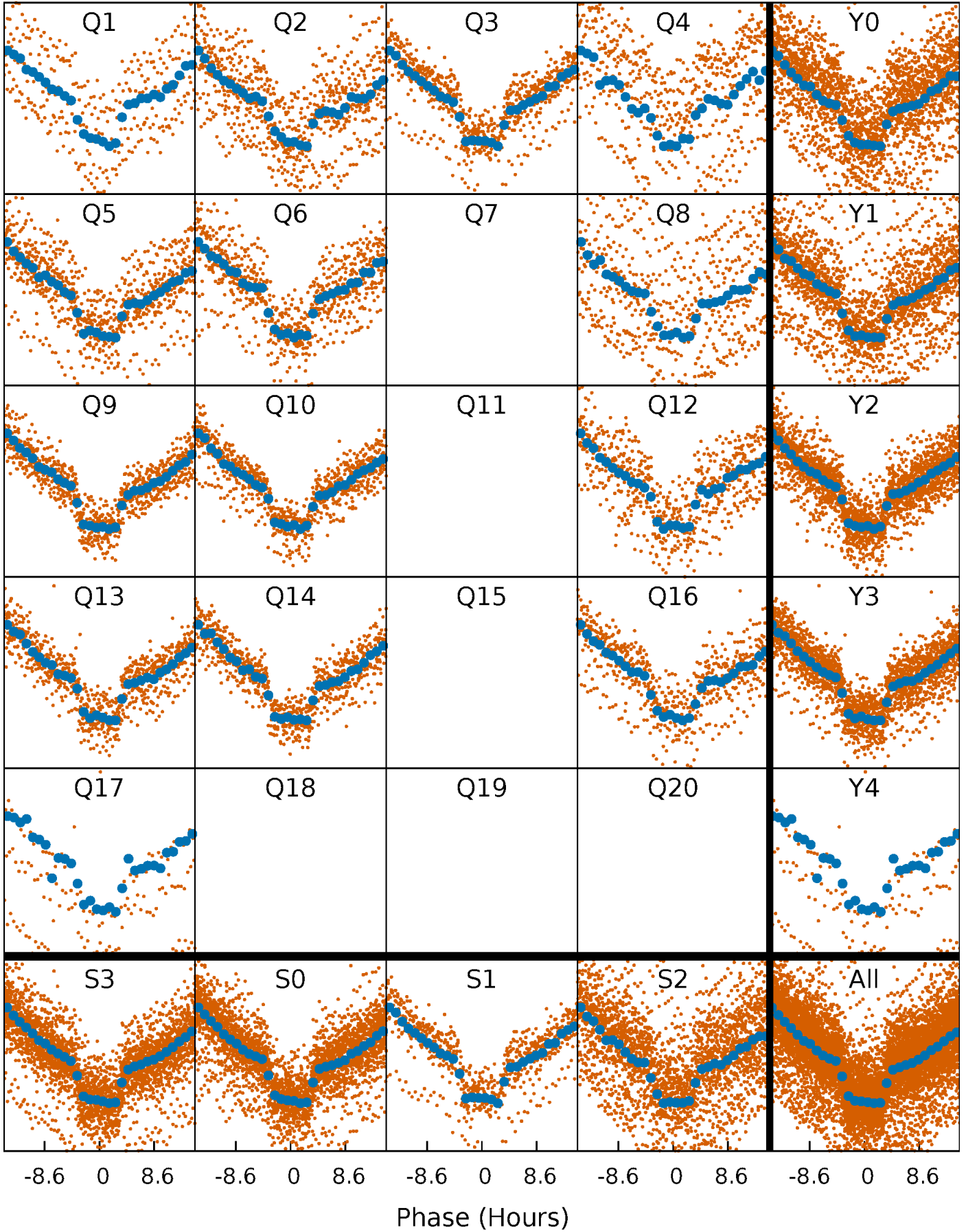


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



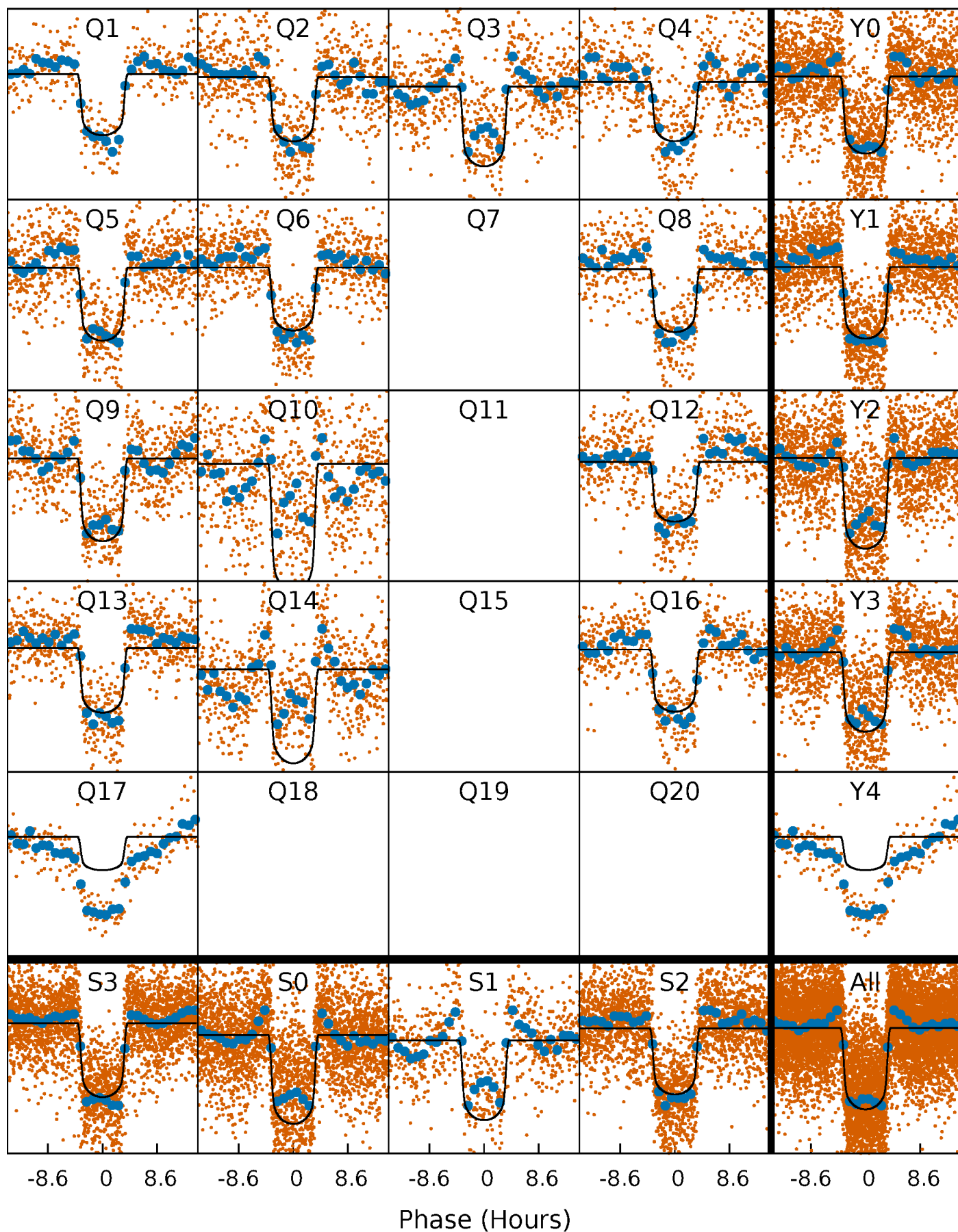
PDC Quarter-Phased Transit Curves

TCE 010295951-02 P= 6.810797 Days $T_0=132.645659$ (BKJD)



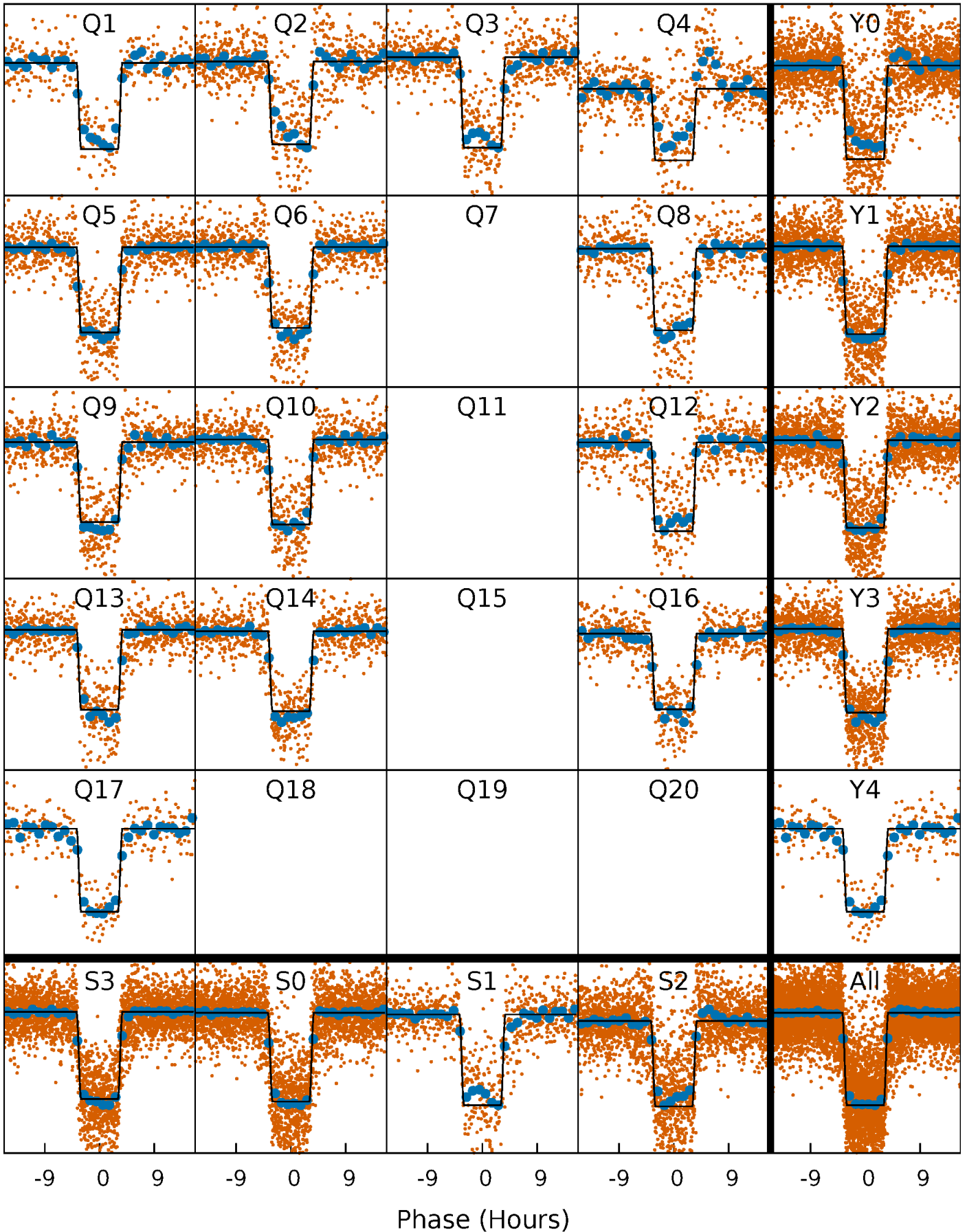
DV Quarter-Phased Transit Curves

TCE 010295951-02 P= 6.810797 Days $T_0=132.645659$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

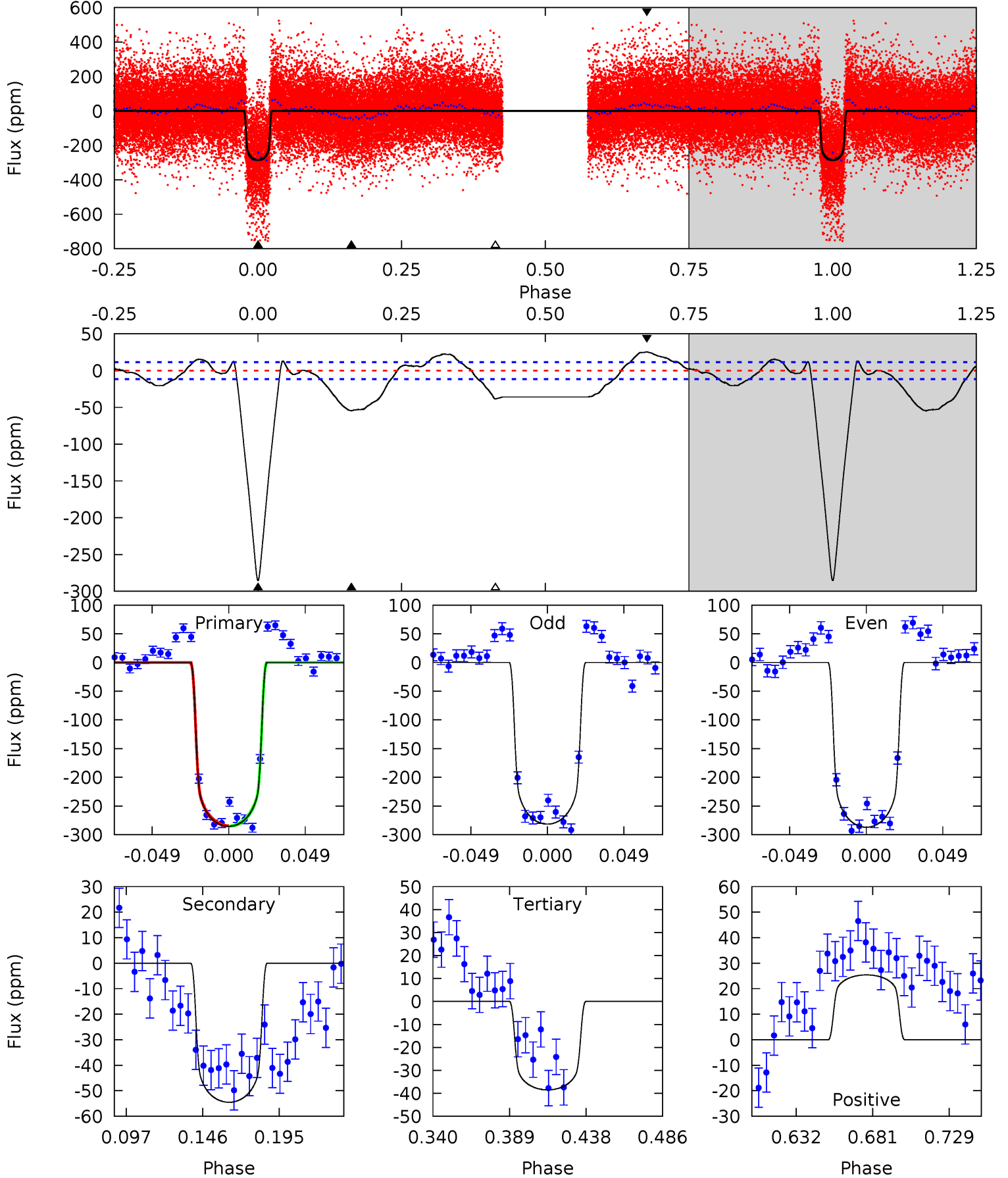
TCE 010295951-02 $P = 6.810778$ Days $T_0 = 132.648710$ (BKJD)



DV Model-Shift Uniqueness Test

010295951-02, P = 6.810797 Days, E = 125.834862 Days

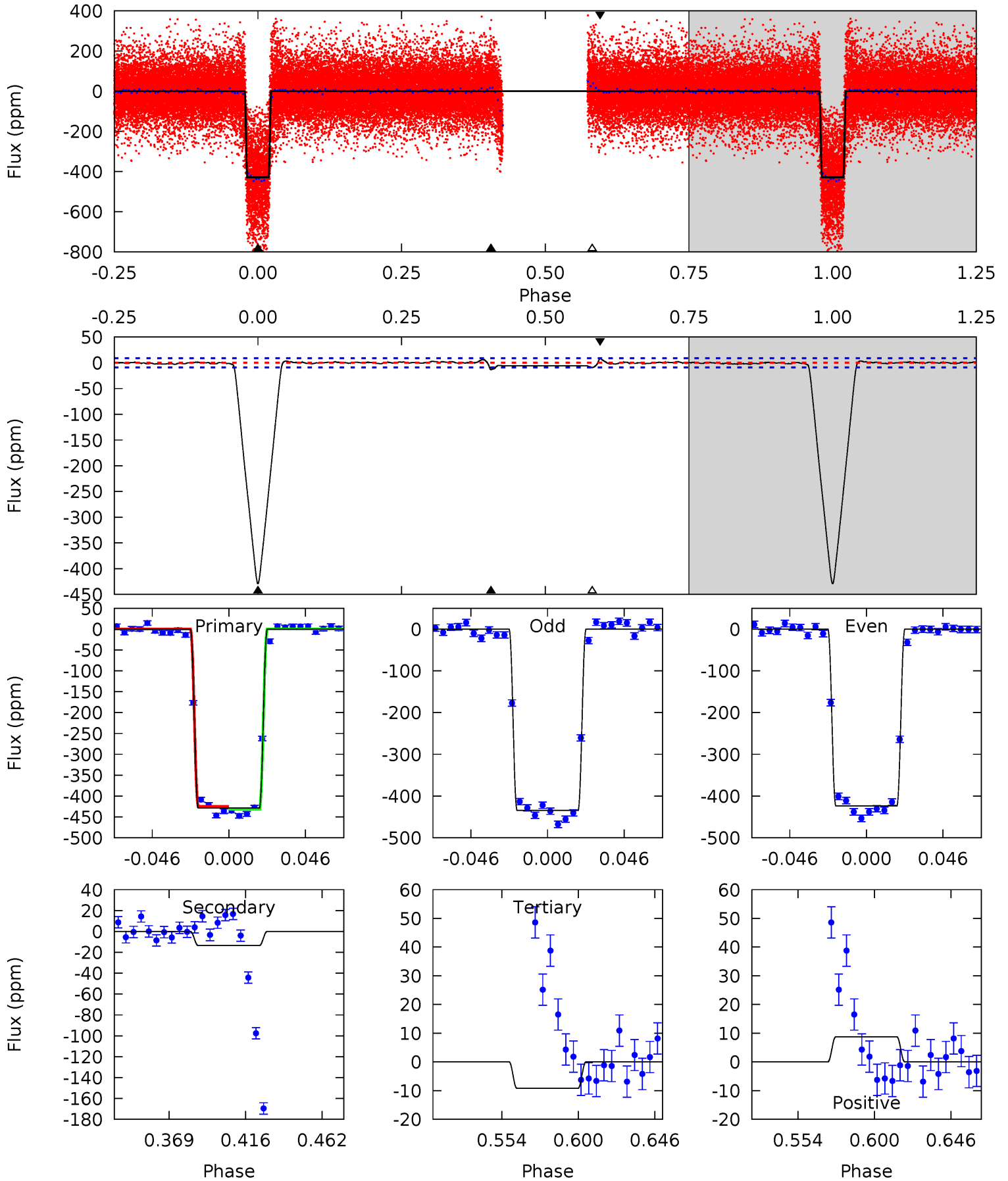
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
116.0	22.2	15.7	10.3	4.71	1.97	6.51	100.4	105.7	6.50	11.8	1.12	0.94	0.08	0.13



Alt Model-Shift Uniqueness Test

010295951-02, P = 6.810778 Days, E = 125.837932 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
228.4	7.23	4.91	4.65	4.72	1.99	0.97	223.5	223.8	2.32	2.58	2.84	1.00	0.02	1.75



Stellar Parameters For KIC 010295951

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7226^{+228}_{-304}	$3.967^{+0.315}_{-0.135}$	$-0.400^{+0.300}_{-0.300}$	$2.079^{+0.507}_{-0.760}$	$1.461^{+0.204}_{-0.306}$	$0.229^{+0.505}_{-0.088}$
	+3%/-4%	+8%/-3%	+75%/-75%	+24%/-37%	+14%/-21%	+221%/-38%
Source	KIC0	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 010295951-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-54 ± 2	$4.07^{+0.62}_{-0.77}$	2234^{+175}_{-217}	4664^{+123}_{-142}	12^{+5}_{-3}
Alt.	-14 ± 2	$4.67^{+0.70}_{-0.93}$	2228^{+178}_{-226}	3408^{+102}_{-122}	$2.250^{+1.007}_{-0.601}$

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

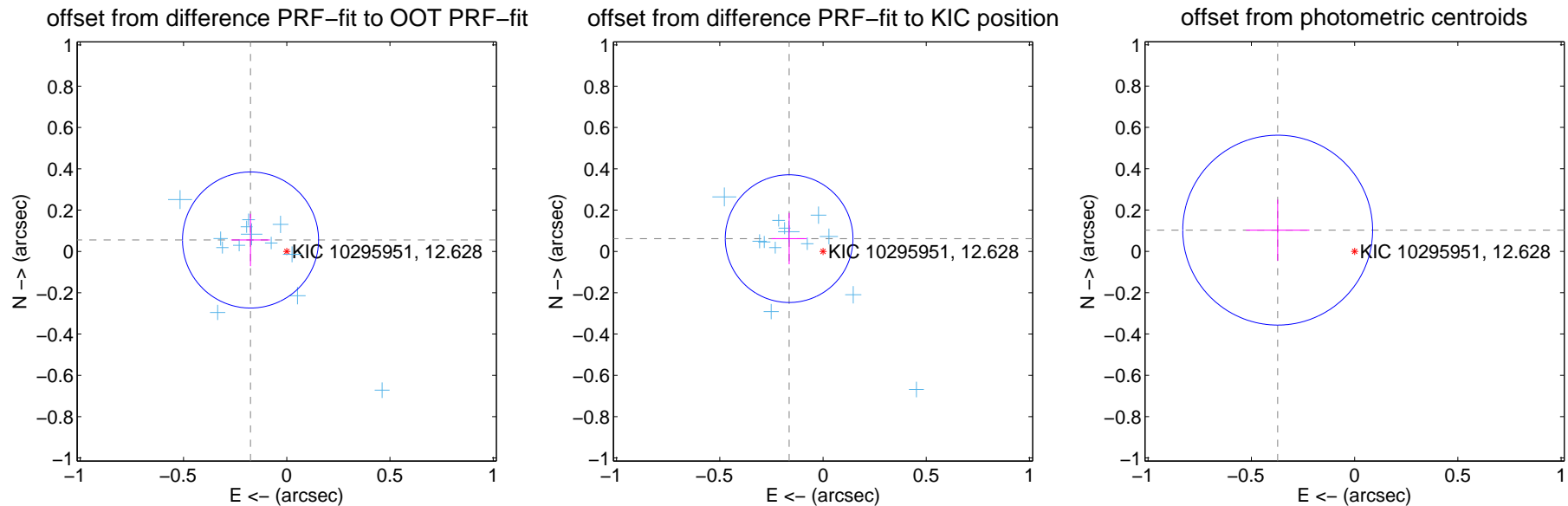
DV Centroid Data

Supplemental centroid analysis for 010295951-02. Kepler magnitude: 12.63. Transit SNR 63.19

There are 14 quarters with good PRF difference image offsets

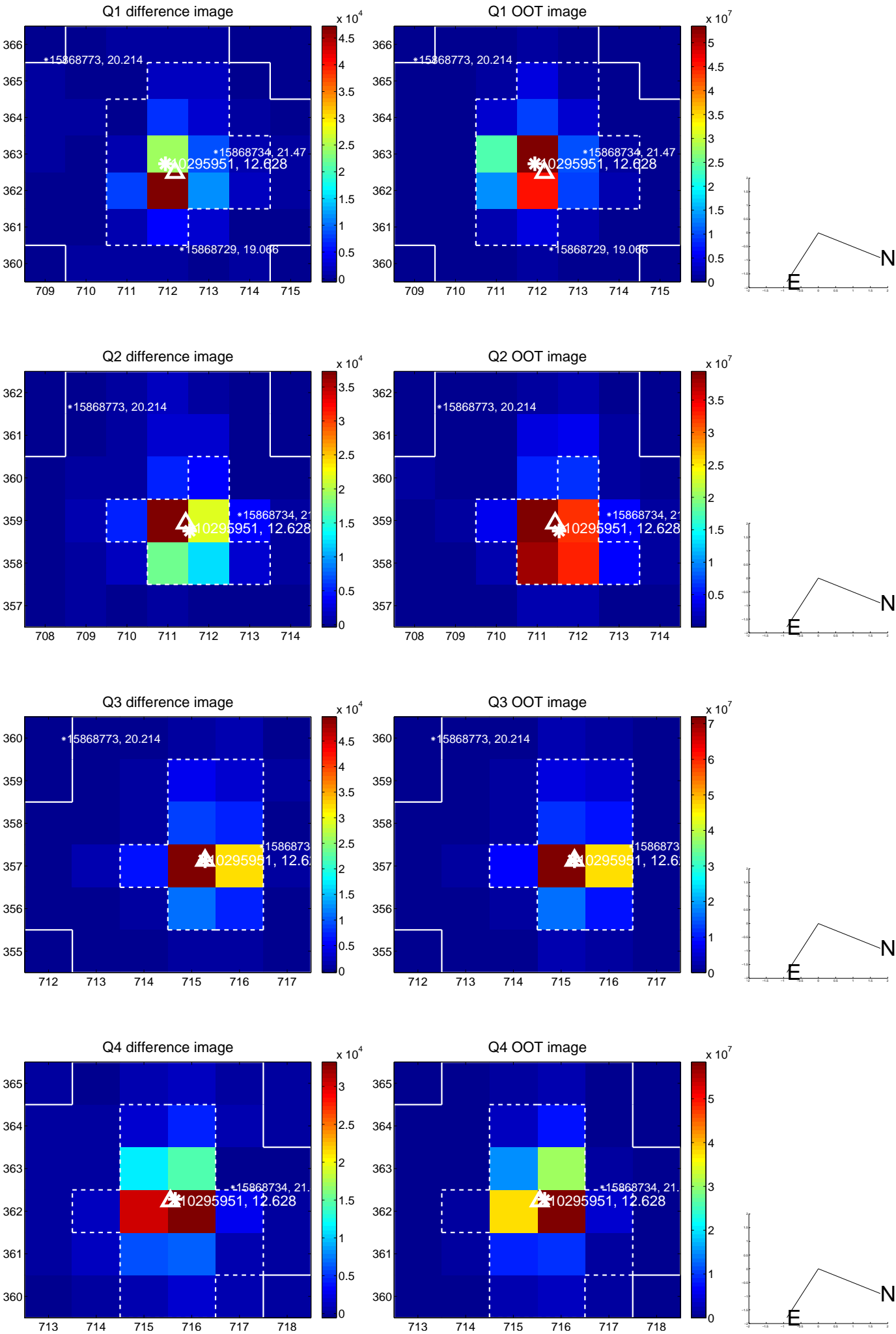
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.184 ± 0.110	1.67	0.175 ± 0.094	0.055 ± 0.127
PRF-fit source offset from KIC position	0.175 ± 0.103	1.70	0.164 ± 0.085	0.062 ± 0.124
photometric centroid source offset	0.39 ± 0.15	2.52	0.37 ± 0.15	0.10 ± 0.15

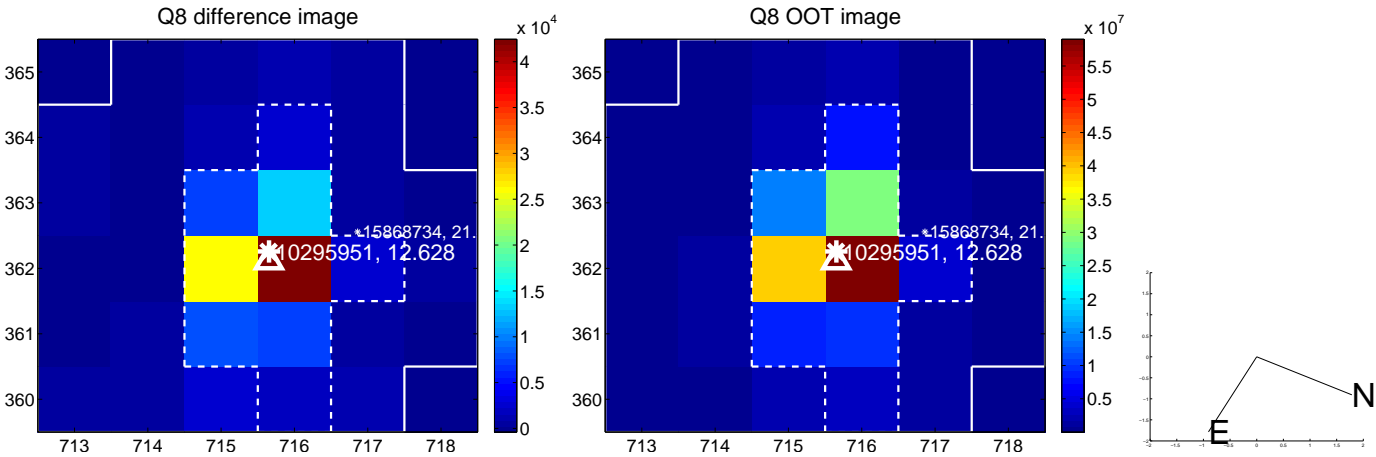
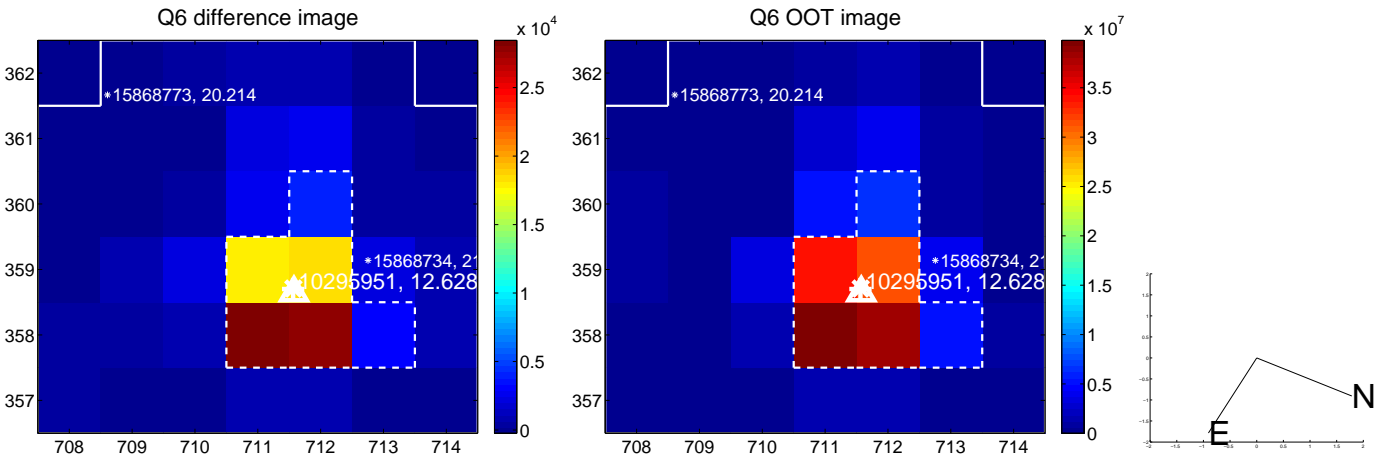
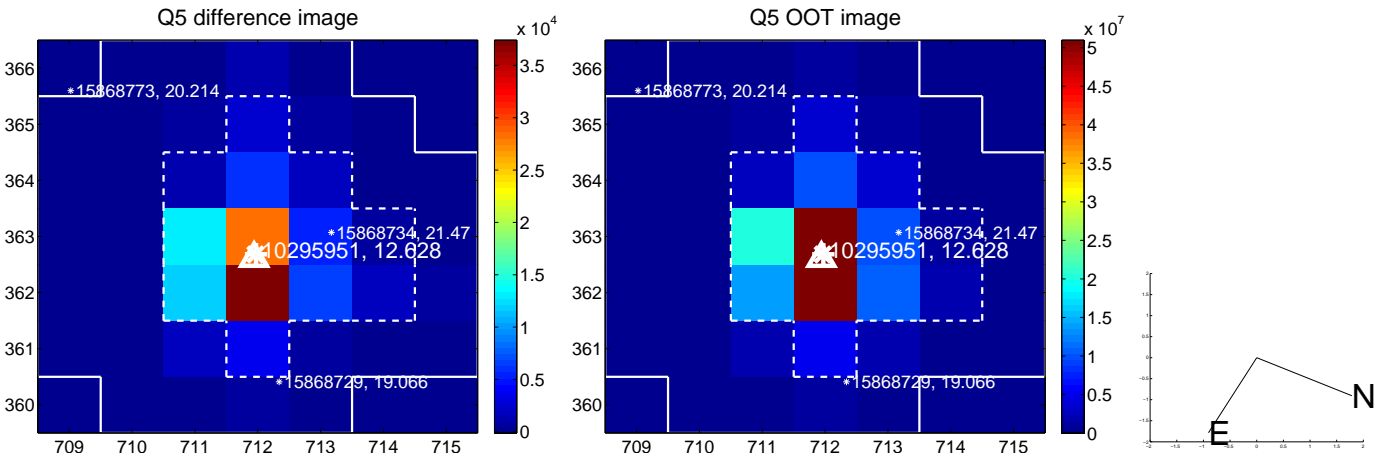


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

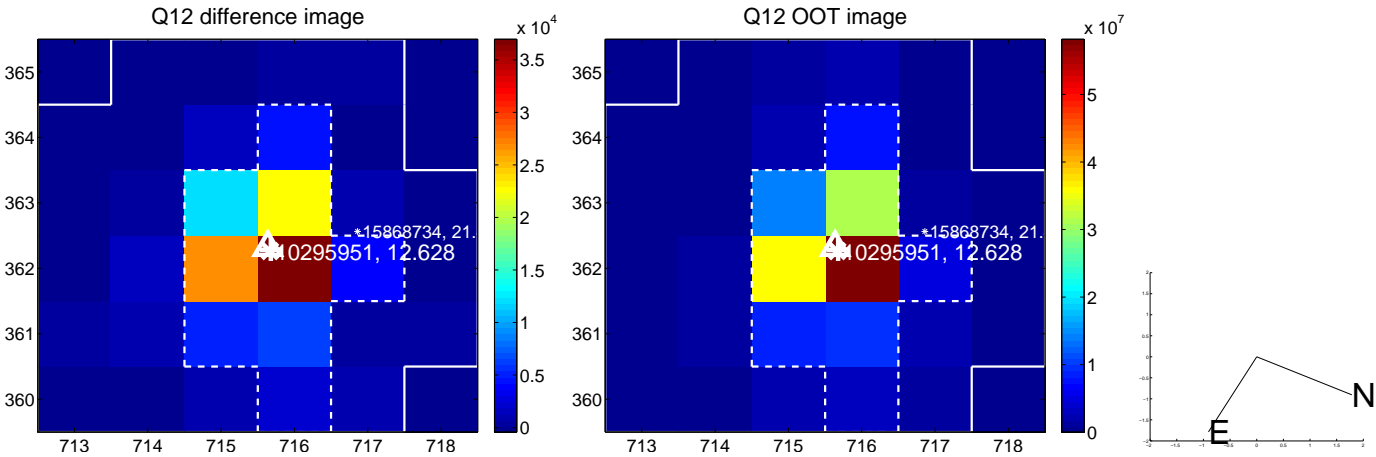
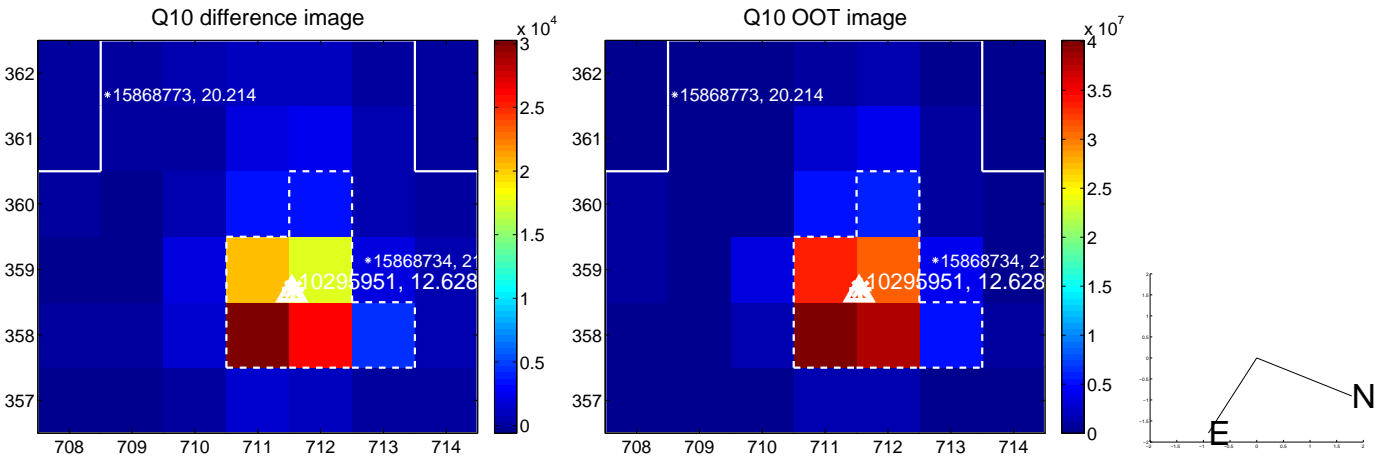
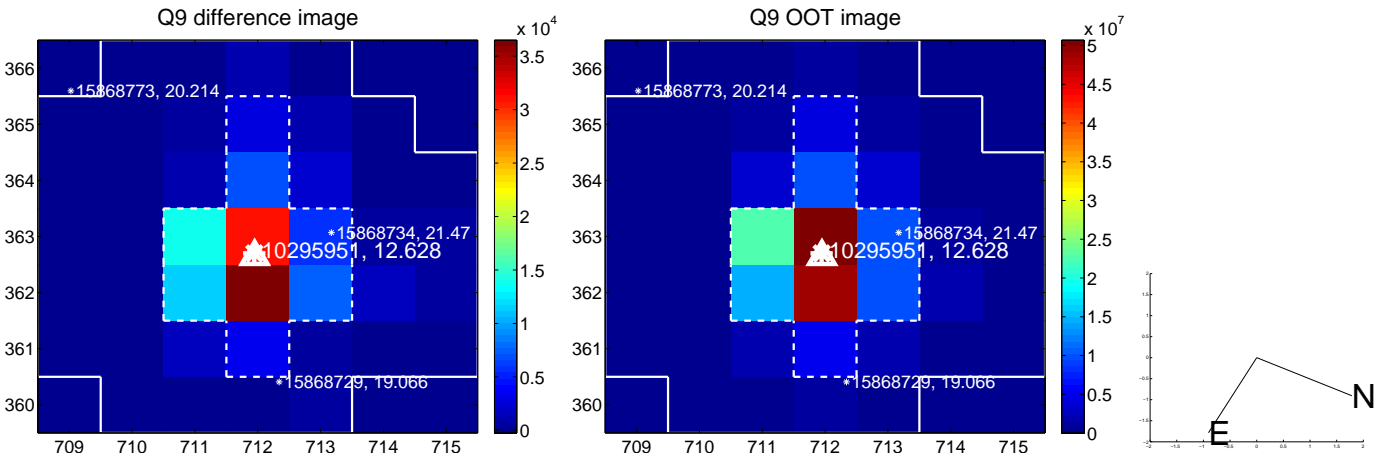
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



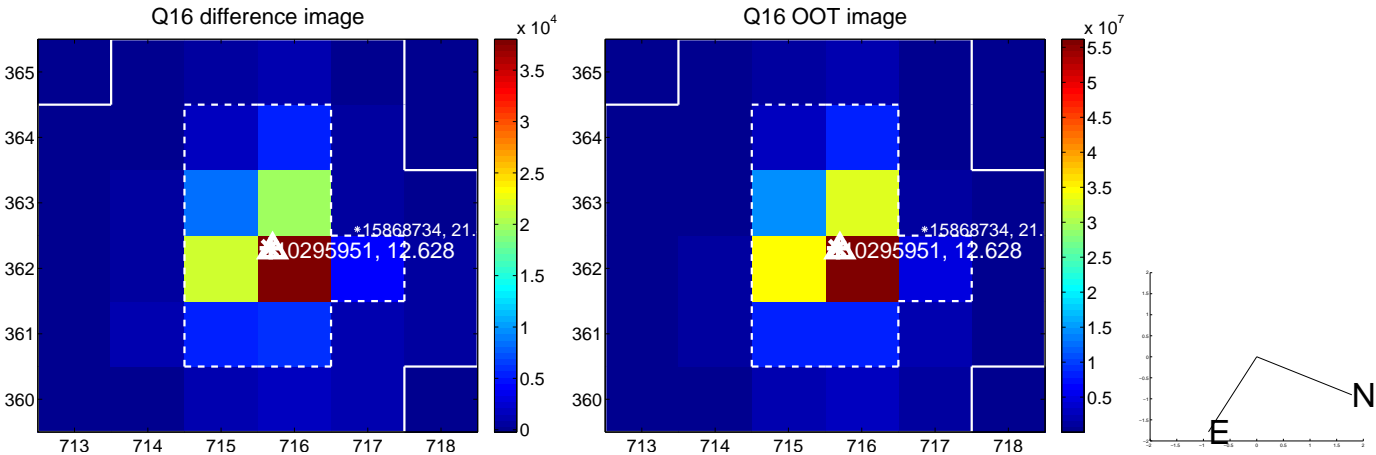
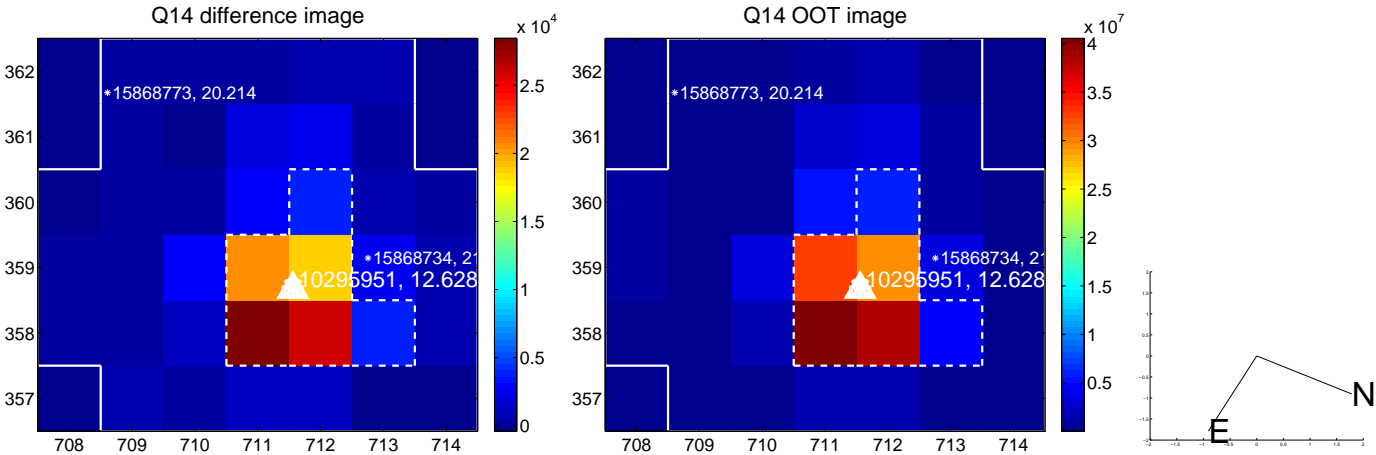
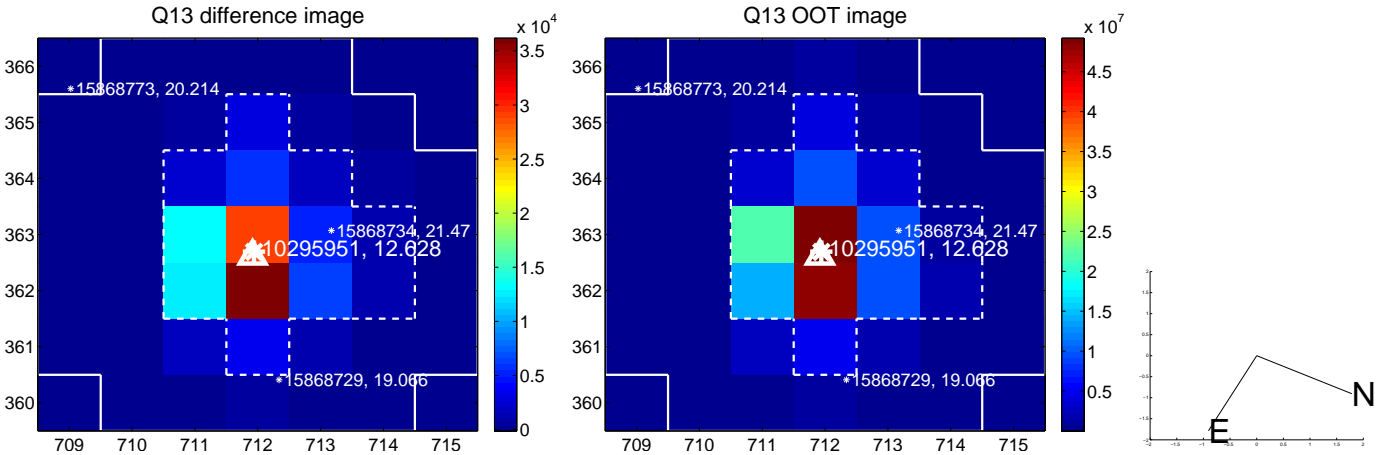
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



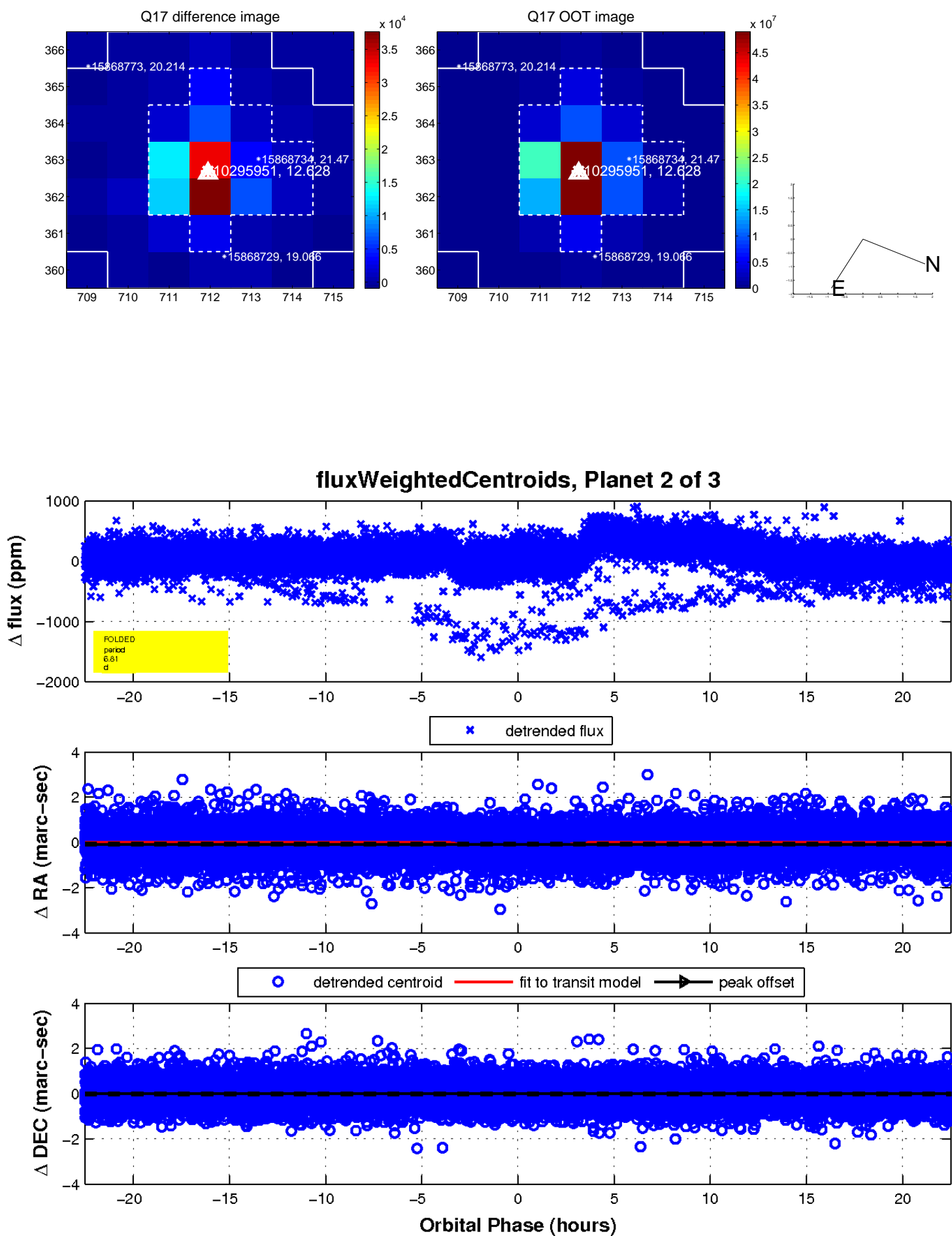
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

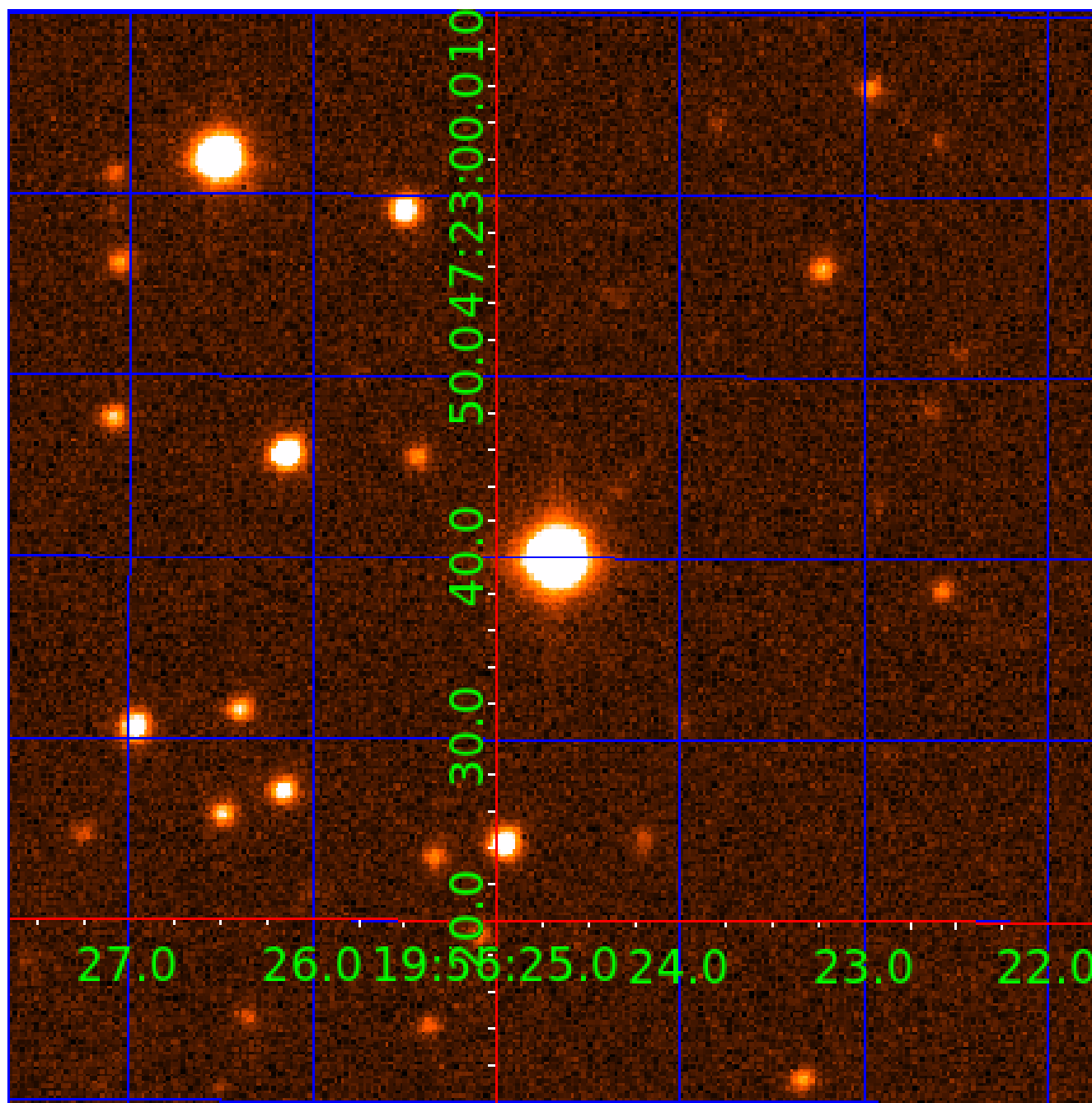


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010295951

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})
010295951-01	OBS	1154.01	6.810825	136.046873	13965.4	7.921	2688.3	2450.7	2.08	7226	25.77	1657.51
010295951-02	OBS	No	6.810797	132.645659	303.8	7.504	53.5	63.2	2.08	7226	4.16	1657.52
010295951-03	OBS	No	6.811387	133.833608	63.5	15.000	9.0	-1.0	2.08	7226	1.68	1657.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010295951-01	OBS	PC	0.87	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—PLANET_OCCULT_ALT—HAS_SEC_TCE
010295951-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
010295951-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—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.

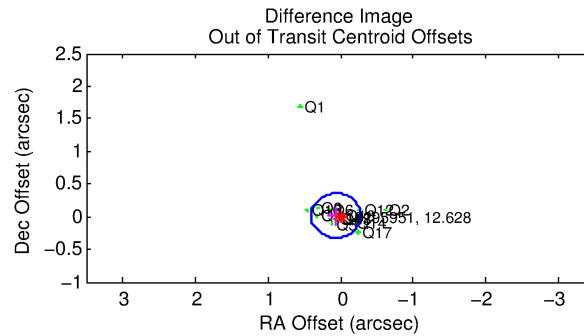
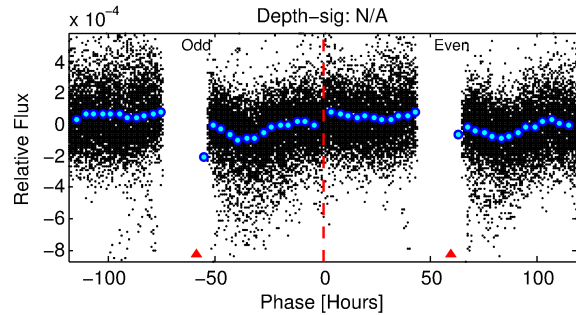
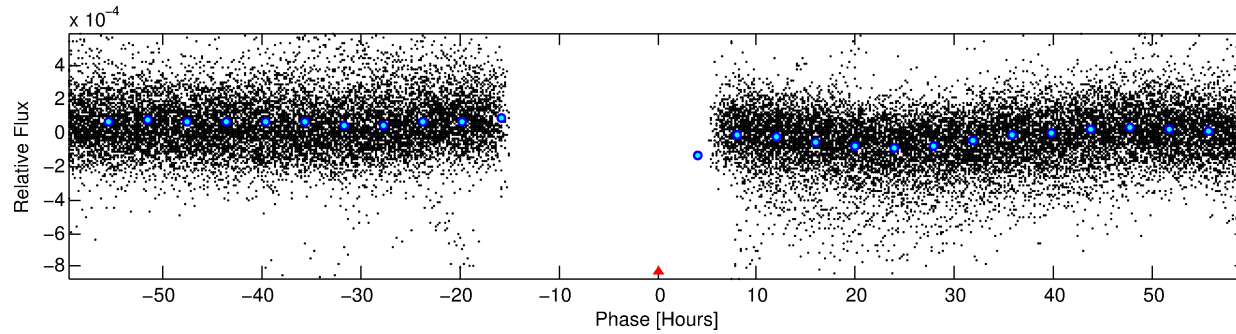
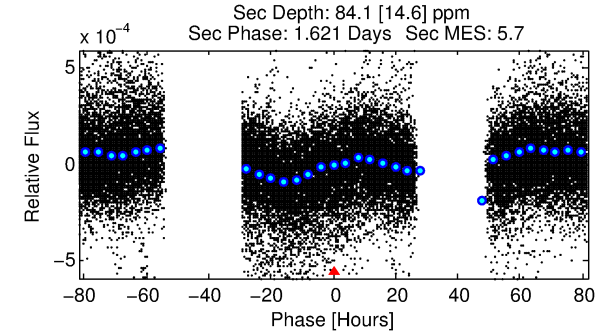
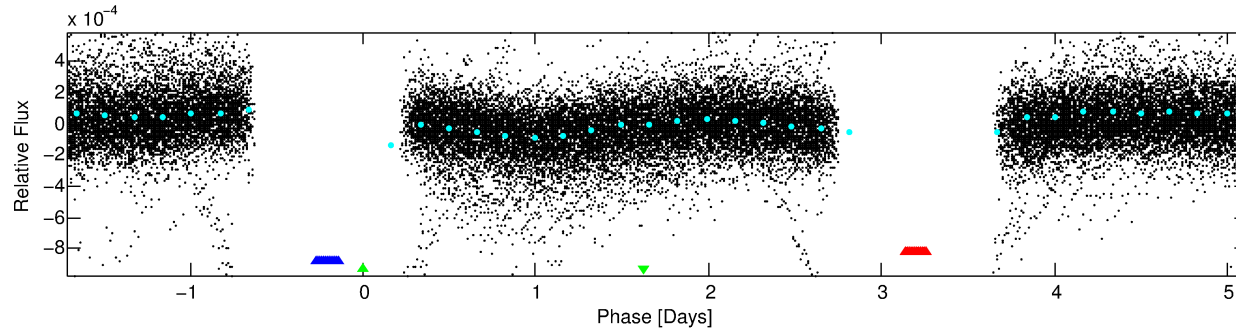
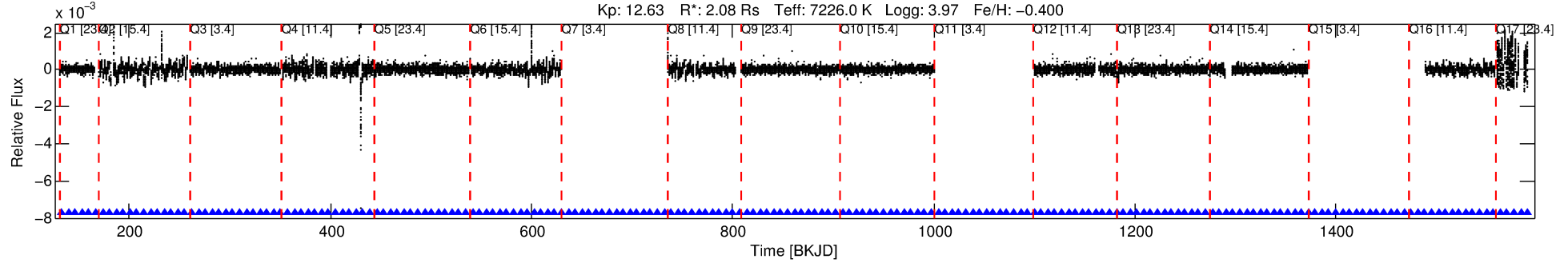
Ephemeris Match Information For 010295951-03

No Significant Match Found

DV One-Page Summary

KIC: 10295951 Candidate: 3 of 3 Period: 6.811 d
KOI: K01154 Corr: No Ephemeris Match

Kp: 12.63 R*: 2.08 Rs Teff: 7226.0 K Logg: 3.97 Fe/H: -0.400



TPS TCE Results:

Period = 6.81139 d
Epoch = 133.8336 BKJD

DV fit results are unavailable

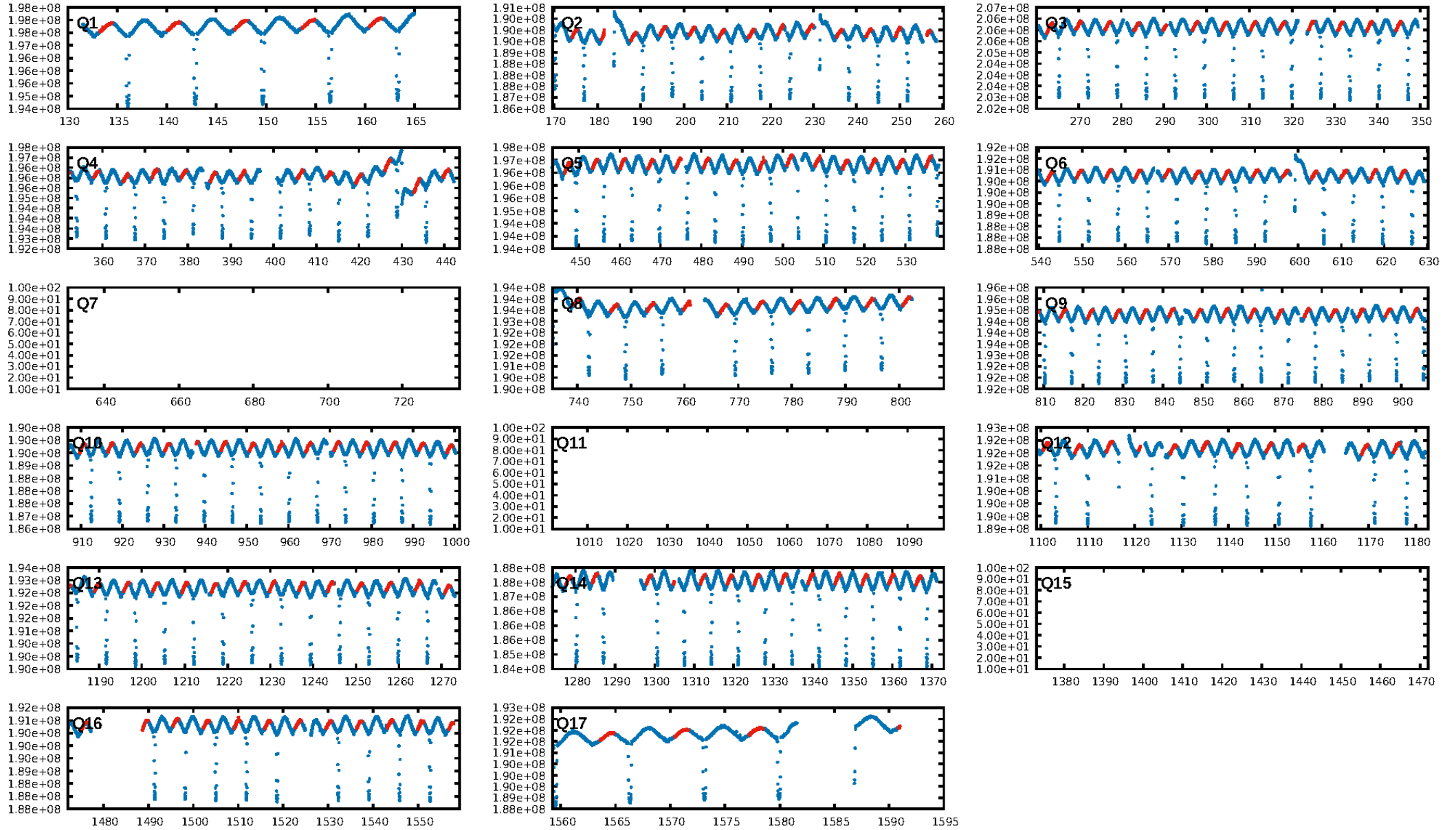
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.48e-12
RollingBand-fgt: 1.00 [149/149]
GhostDiagnostic-chr: 22.74
Centroid-sig: 0.0%
Centroid-so: 0.253 arcsec [2.01 σ]
OotOffset-rm: 0.070 arcsec [0.62 σ]
KicOffset-rm: 0.059 arcsec [0.46 σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 0.00 [0/14]

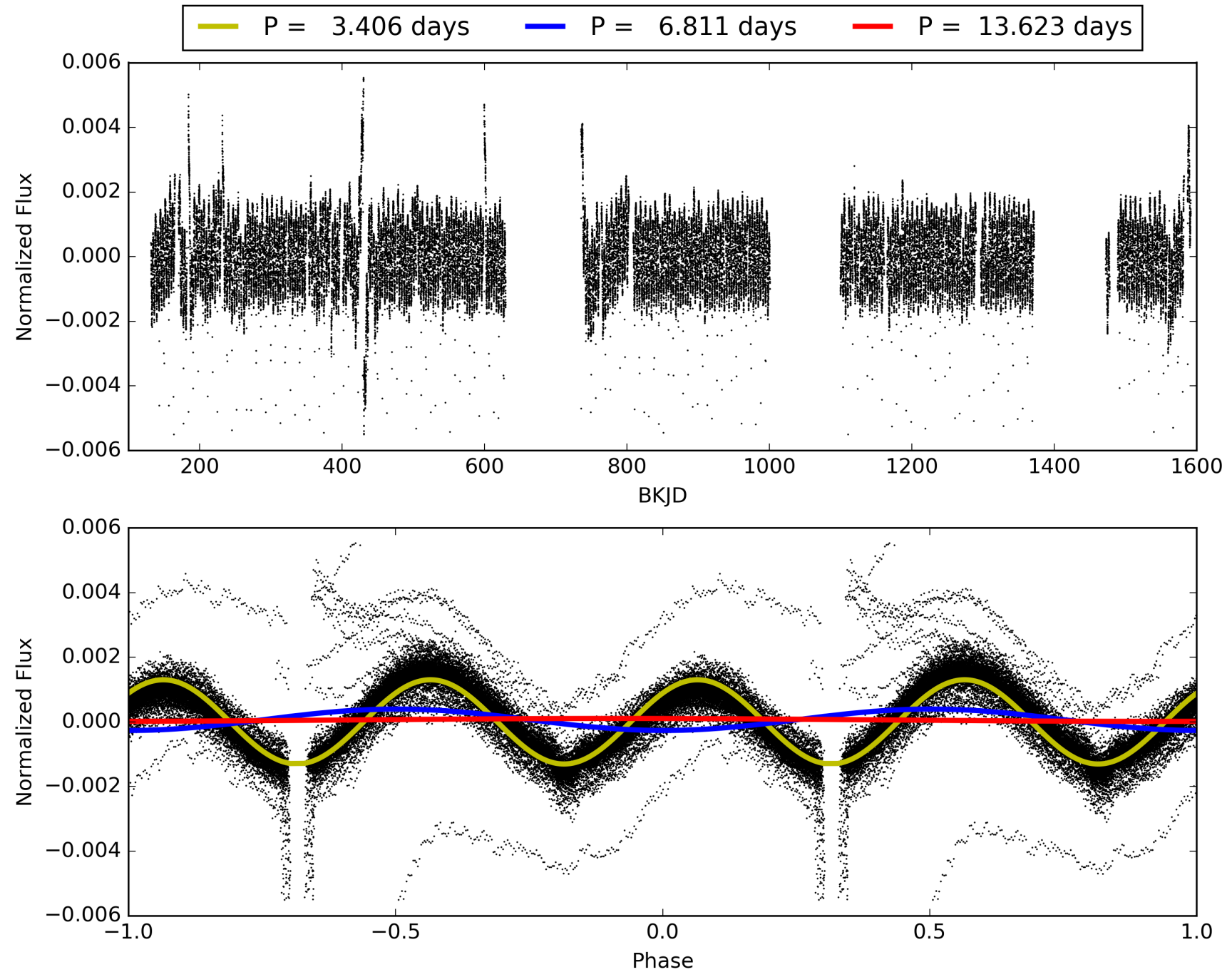
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:50:19 Z

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

TCE 010295951-03, PDC Light Curves

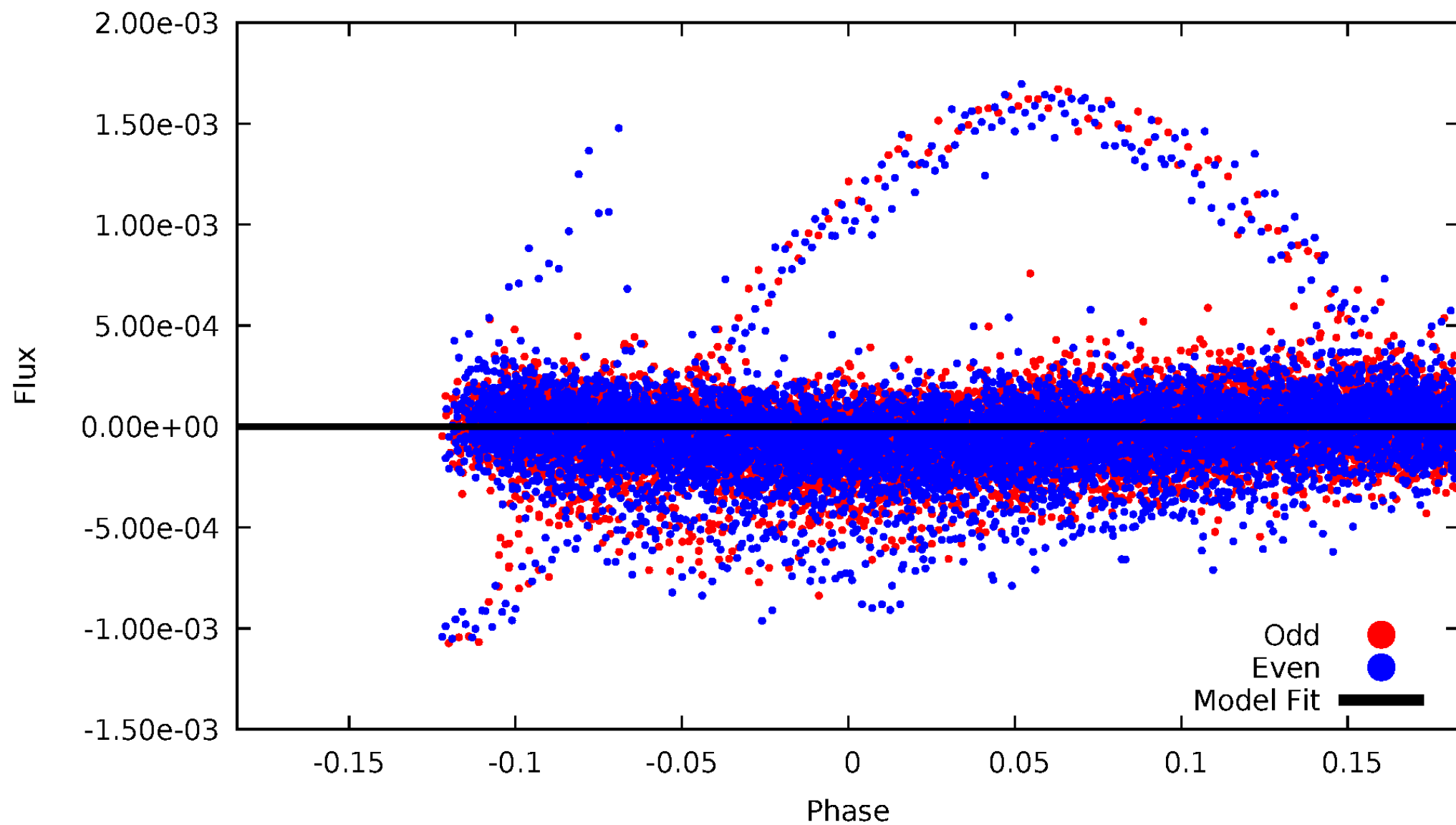


TCE 010295951-03



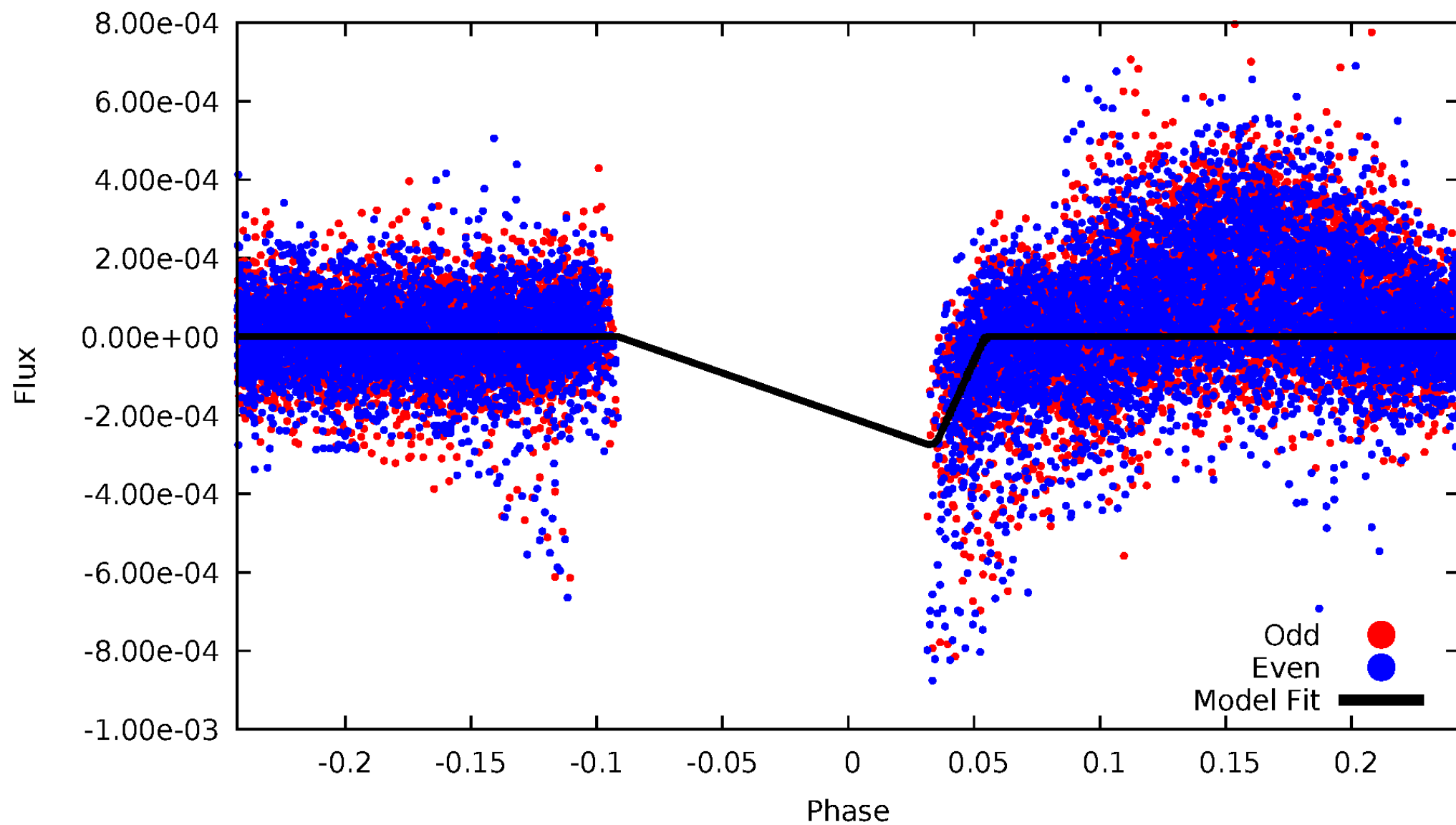
DV Odd/Even

TCE 010295951-03

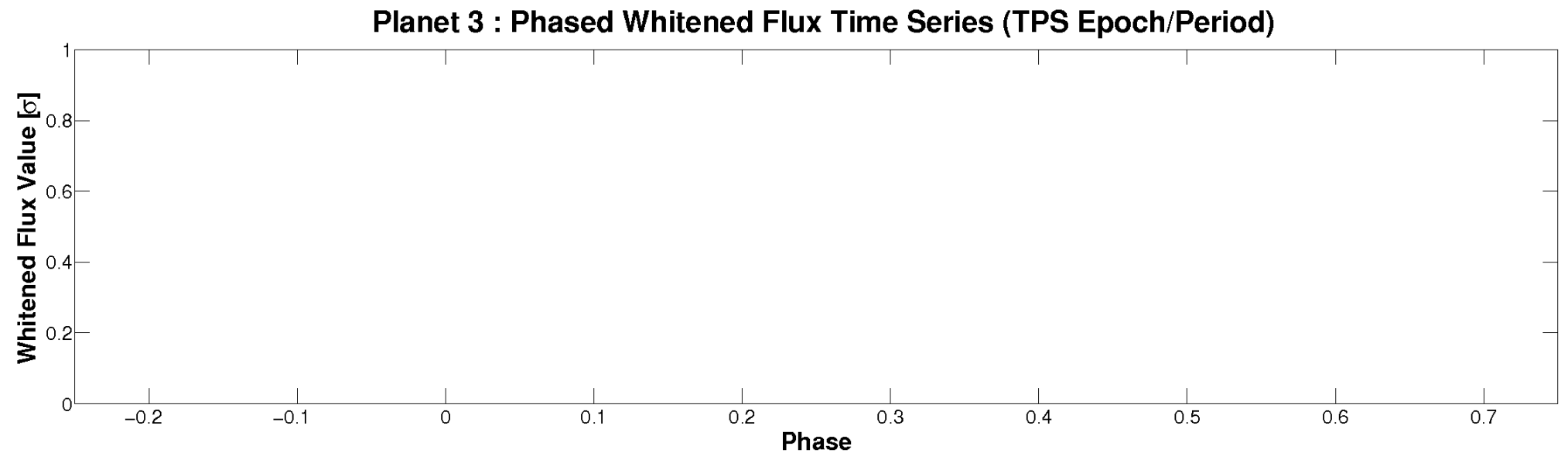
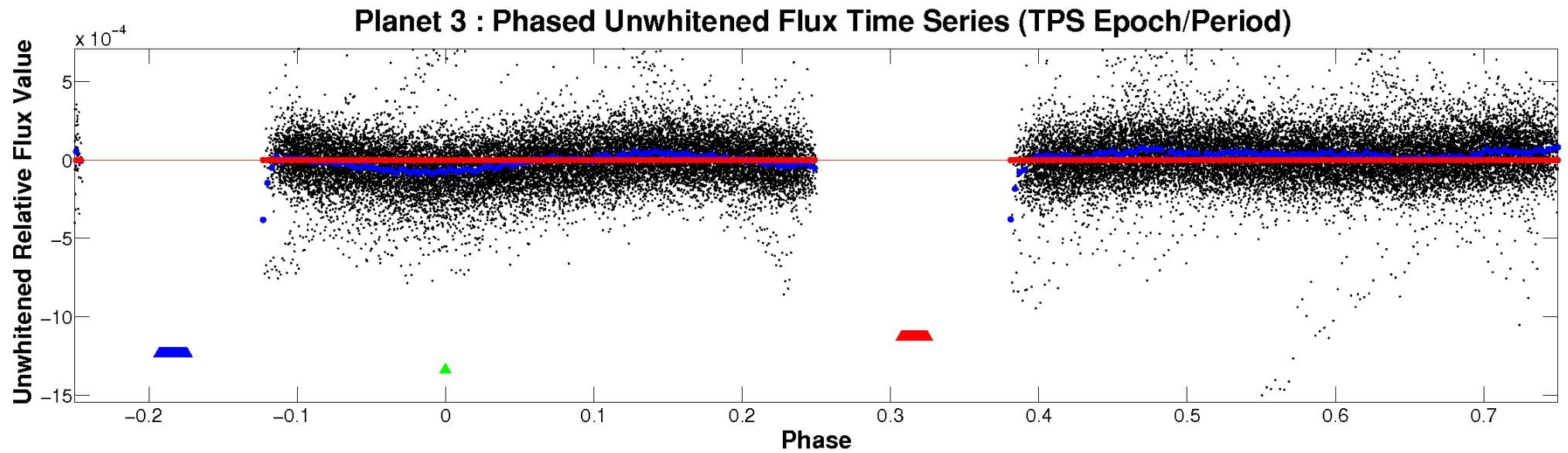


ALT Odd/Even

TCE 010295951-03

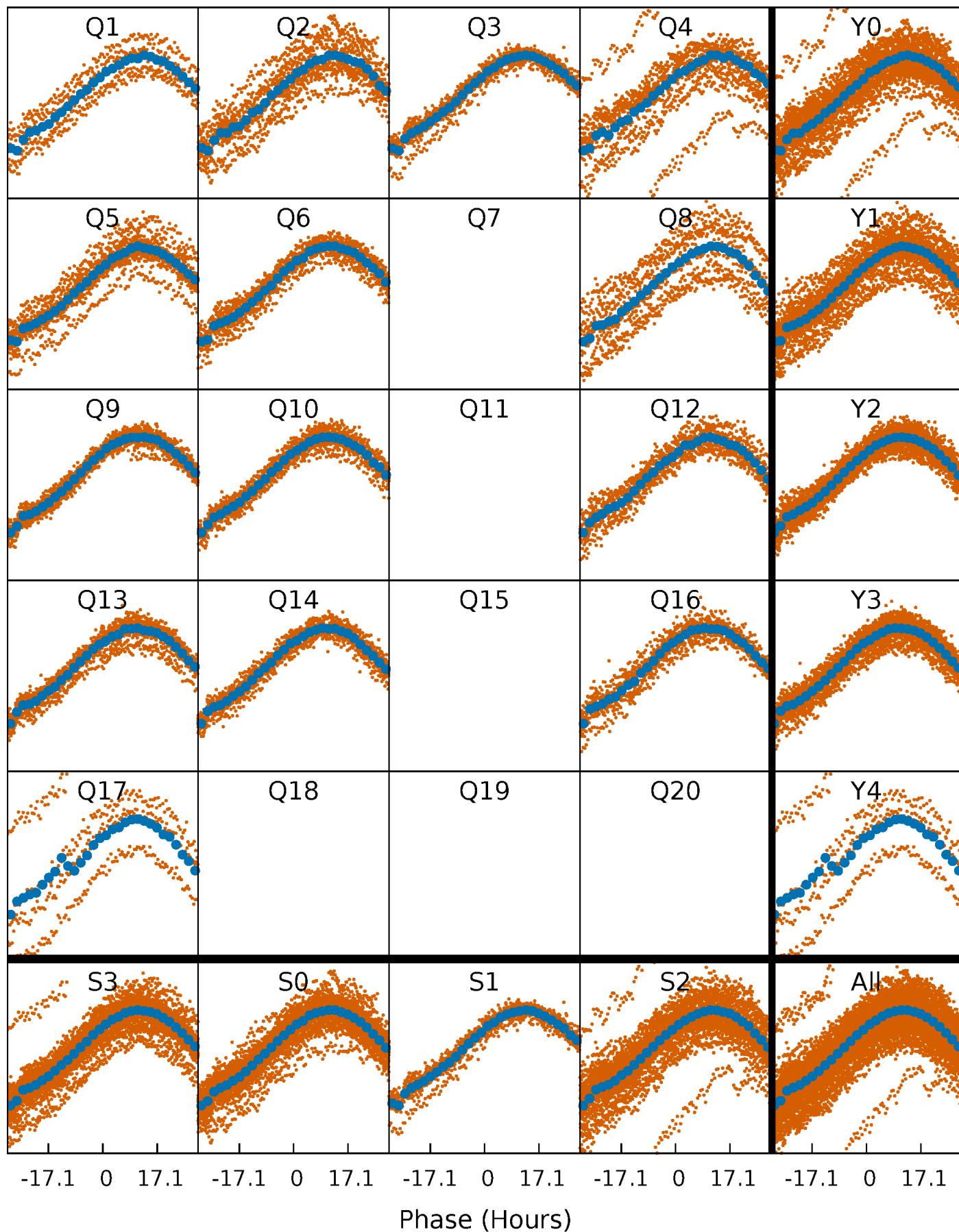


Non-Whitened Vs. Whitened Light Curve



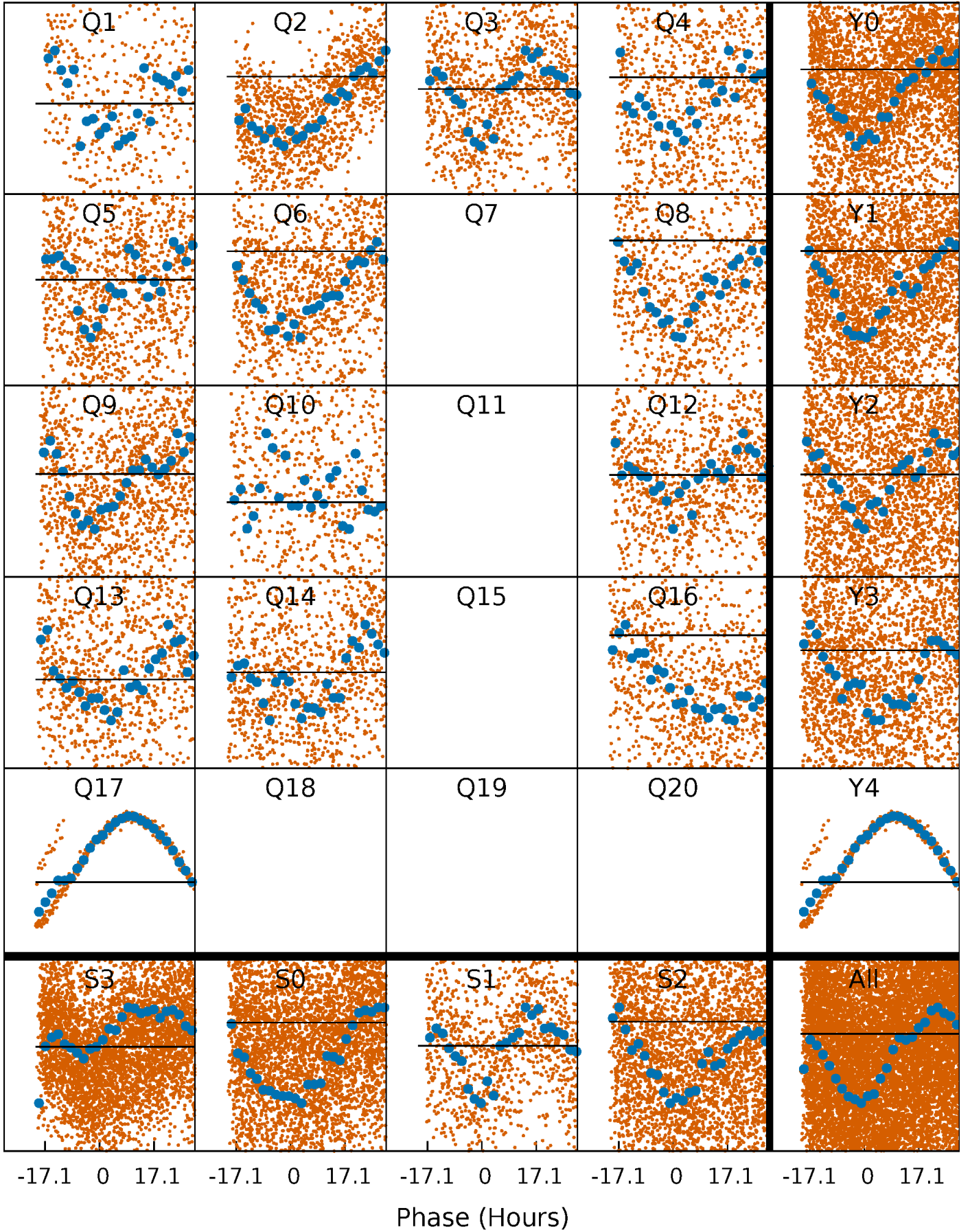
PDC Quarter-Phased Transit Curves

TCE 010295951-03 P= 6.811387 Days $T_0=133.833608$ (BKJD)



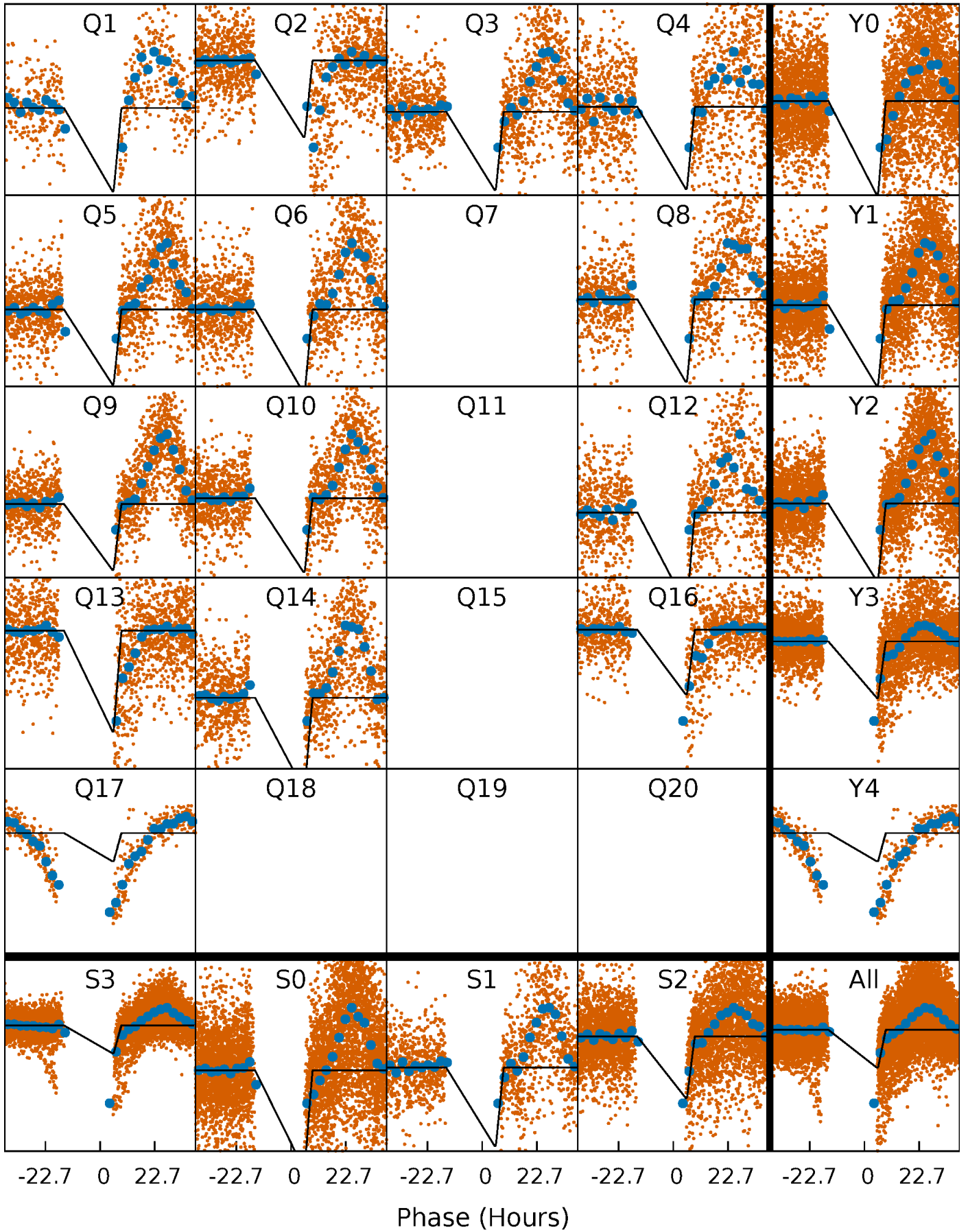
DV Quarter-Phased Transit Curves

TCE 010295951-03 $P = 6.811387$ Days $T_0 = 133.833608$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

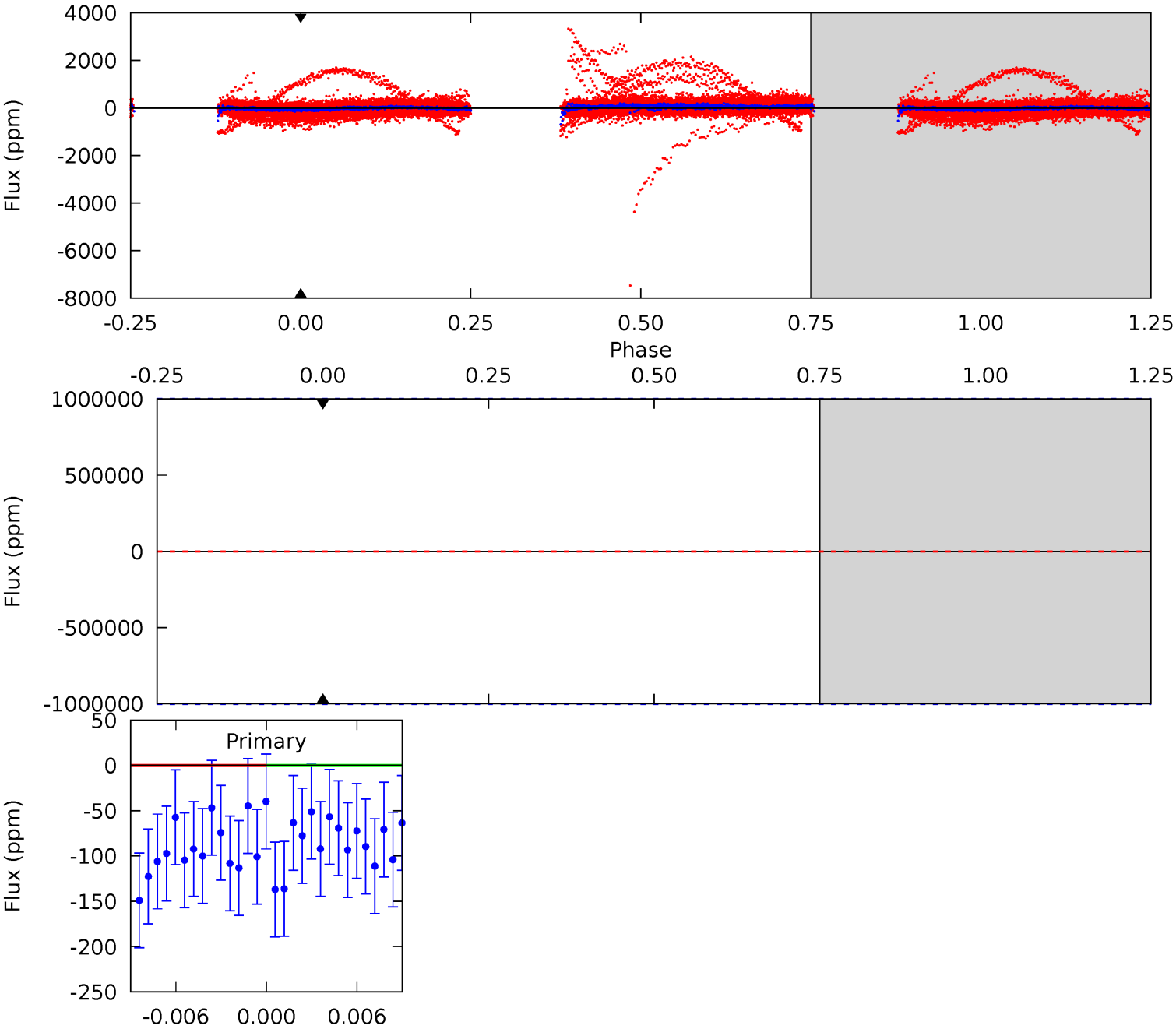
TCE 010295951-03 P= 6.811387 Days $T_0=132.788816$ (BKJD)



DV Model-Shift Uniqueness Test

010295951-03, P = 6.811387 Days, E = 127.022221 Days

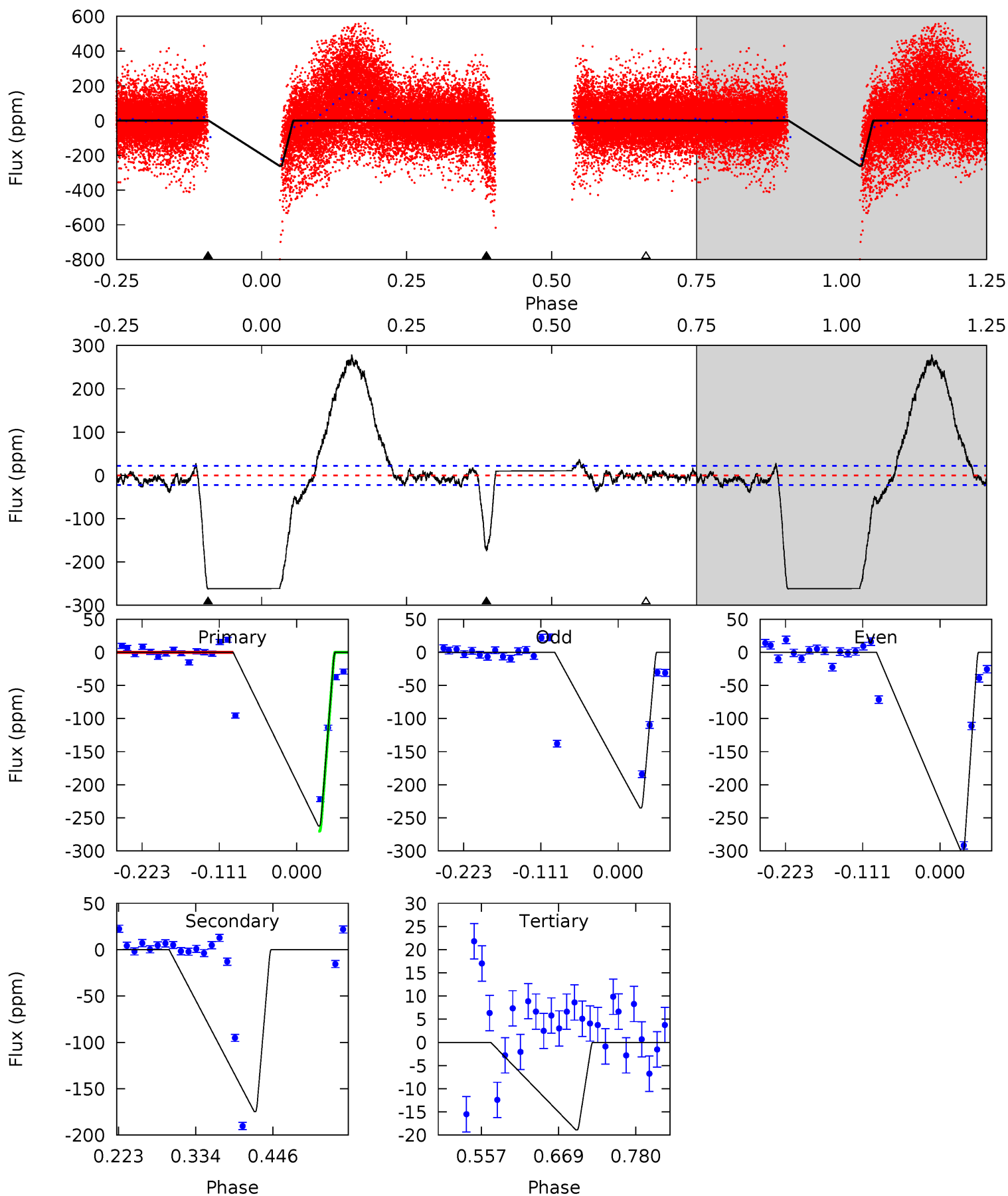
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

010295951-03, P = 6.811387 Days, E = 125.977429 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
53.6	35.7	3.86	0	4.54	1.59	18.3	49.7	53.6	31.9	35.7	6.94	1.59	0.52	0



Stellar Parameters For KIC 010295951

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7226^{+228}_{-304}	$3.967^{+0.315}_{-0.135}$	$-0.400^{+0.300}_{-0.300}$	$2.079^{+0.507}_{-0.760}$	$1.461^{+0.204}_{-0.306}$	$0.229^{+0.505}_{-0.088}$
	+3%/-4%	+8%/-3%	+75%/-75%	+24%/-37%	+14%/-21%	+221%/-38%
Source	KIC0	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 010295951-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$14.92^{+16.77}_{-10.33}$	2236^{+185}_{-208}	3994^{+37380}_{-42091}	$5.262^{+2864.805}_{-2514.797}$
Alt.	-175 ± 5	$17.04^{+16.41}_{-11.82}$	2235^{+166}_{-195}	3365^{+1904}_{-799}	$2.100^{+20.277}_{-1.538}$

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 $A_{obs} \gg 1.0$

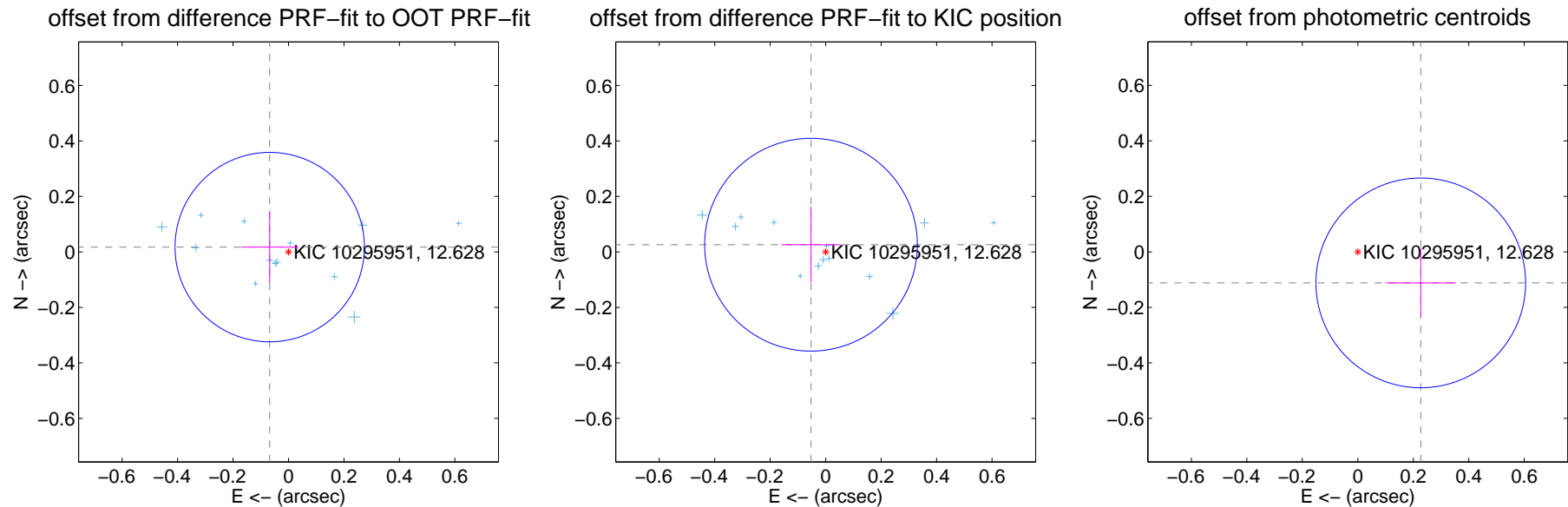
DV Centroid Data

Supplemental centroid analysis for 010295951-03. Kepler magnitude: 12.63. Transit SNR -1.00

There are 14 quarters with good PRF difference image offsets

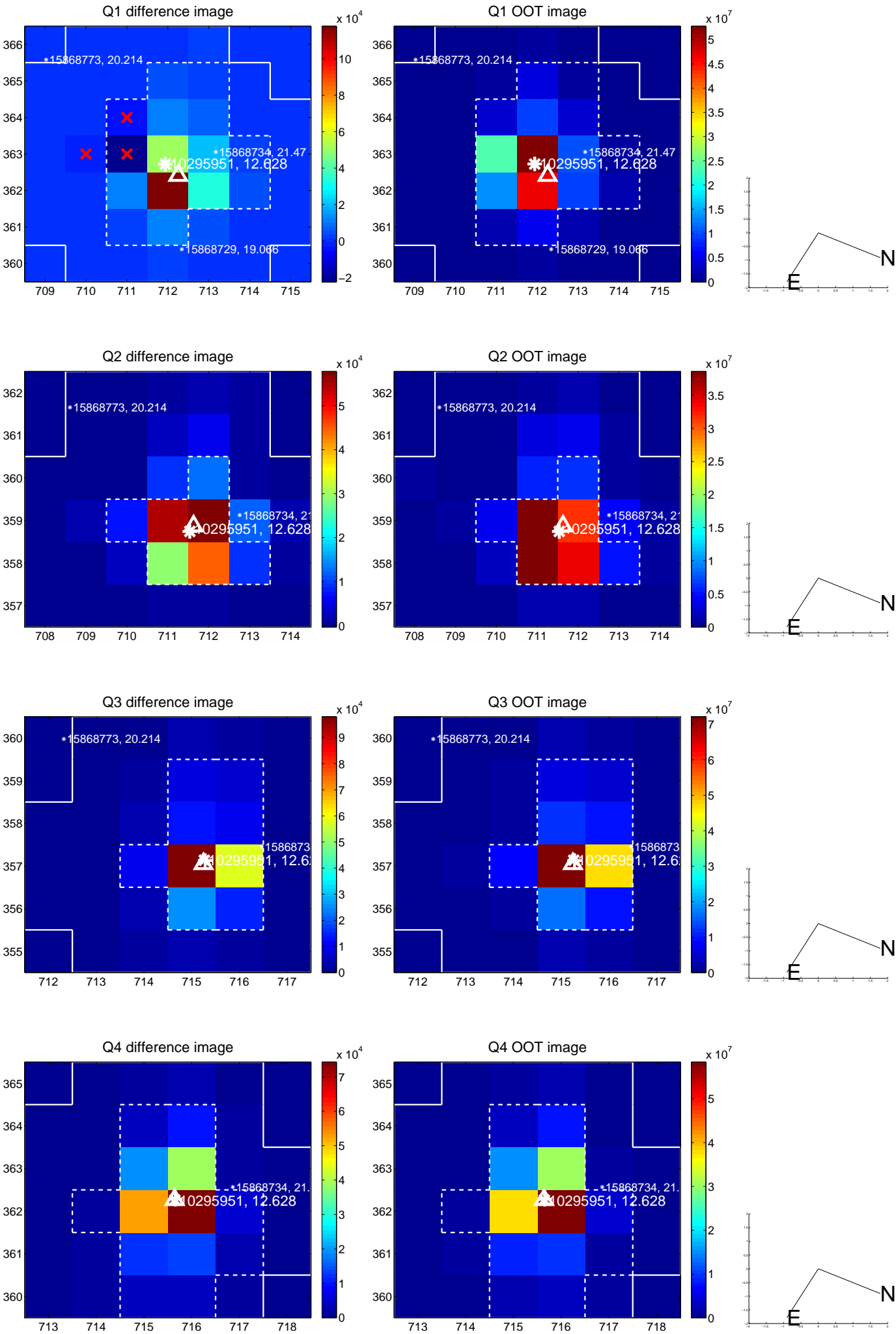
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.070 ± 0.114	0.62	0.068 ± 0.102	0.017 ± 0.129
PRF-fit source offset from KIC position	0.059 ± 0.128	0.46	0.053 ± 0.107	0.026 ± 0.137
photometric centroid source offset	0.25 ± 0.13	2.01	-0.23 ± 0.13	-0.11 ± 0.12

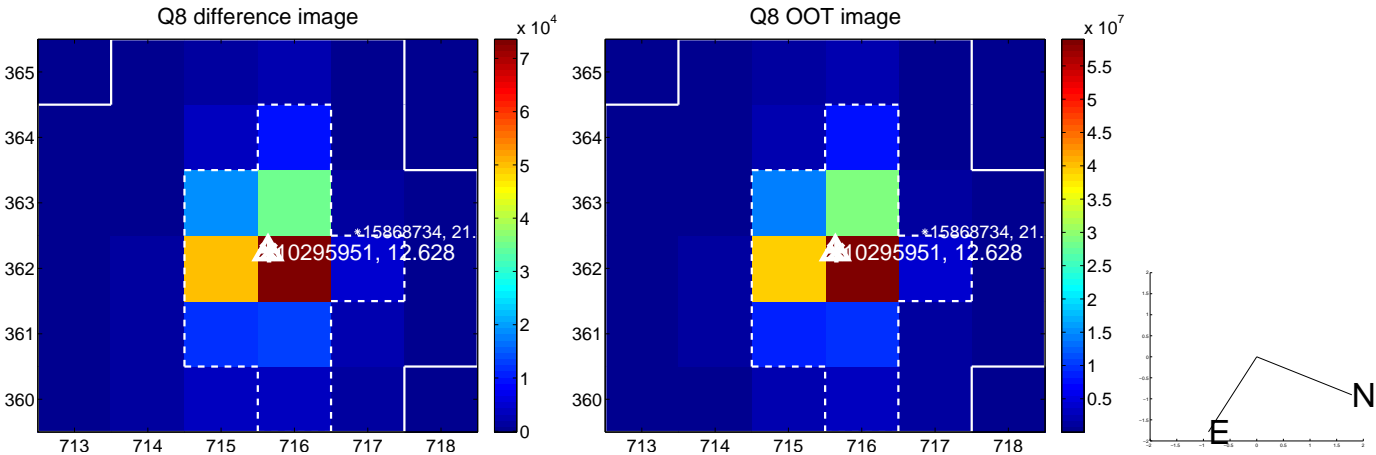
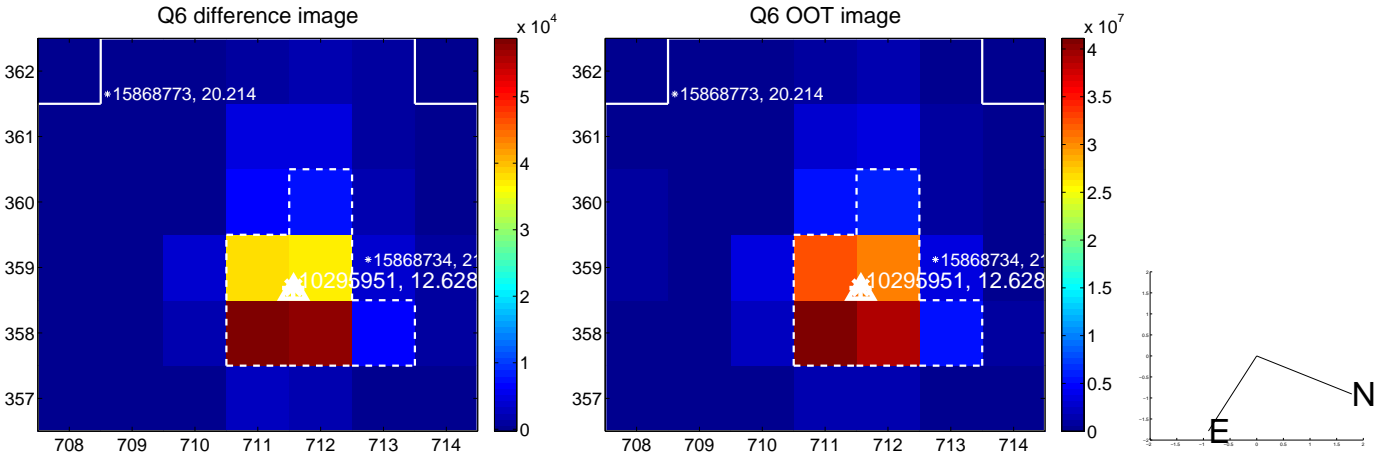
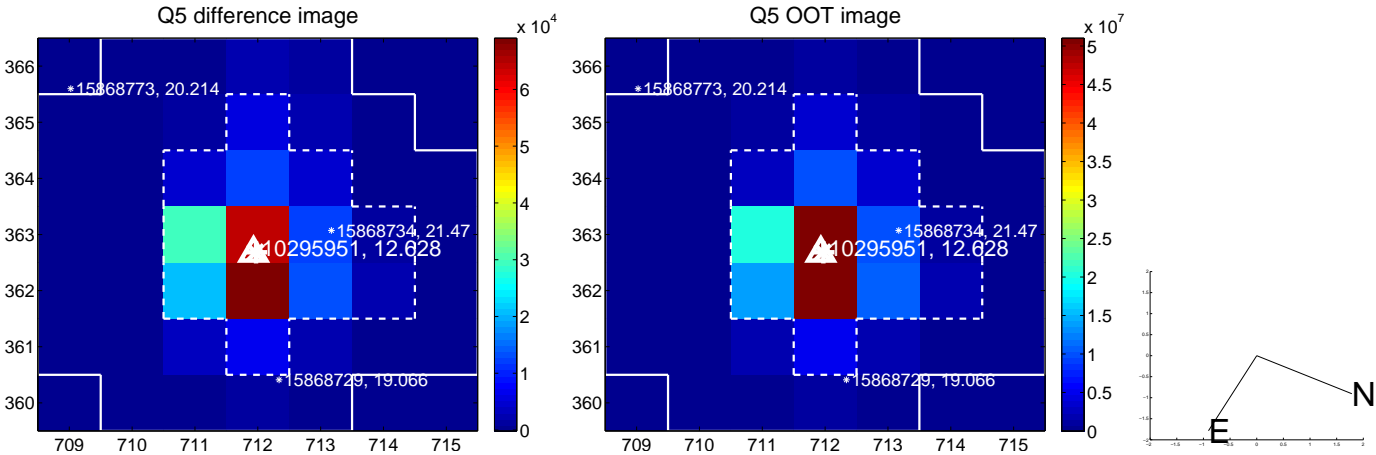


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

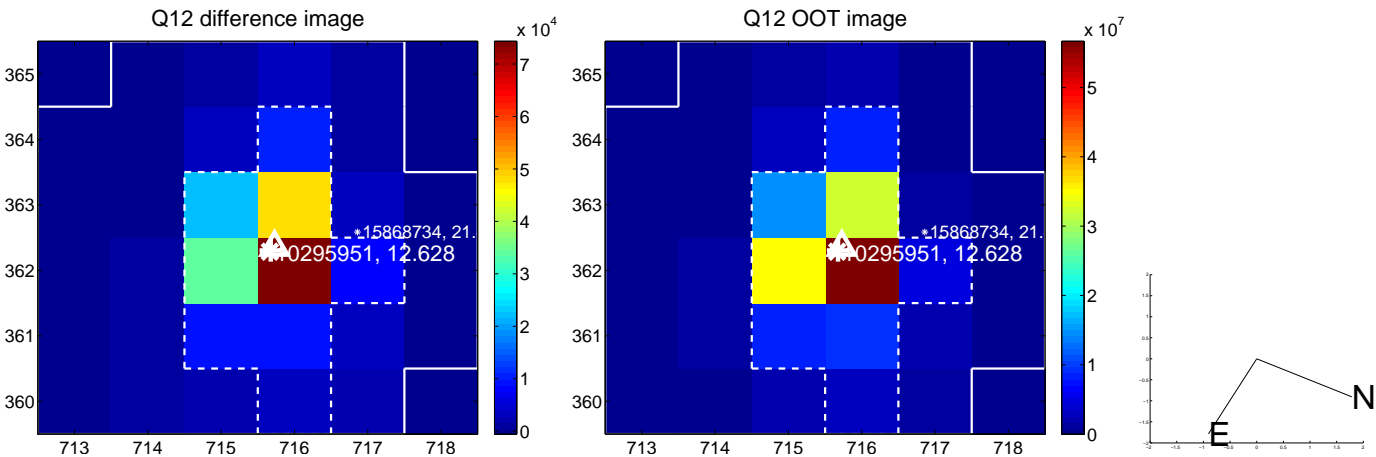
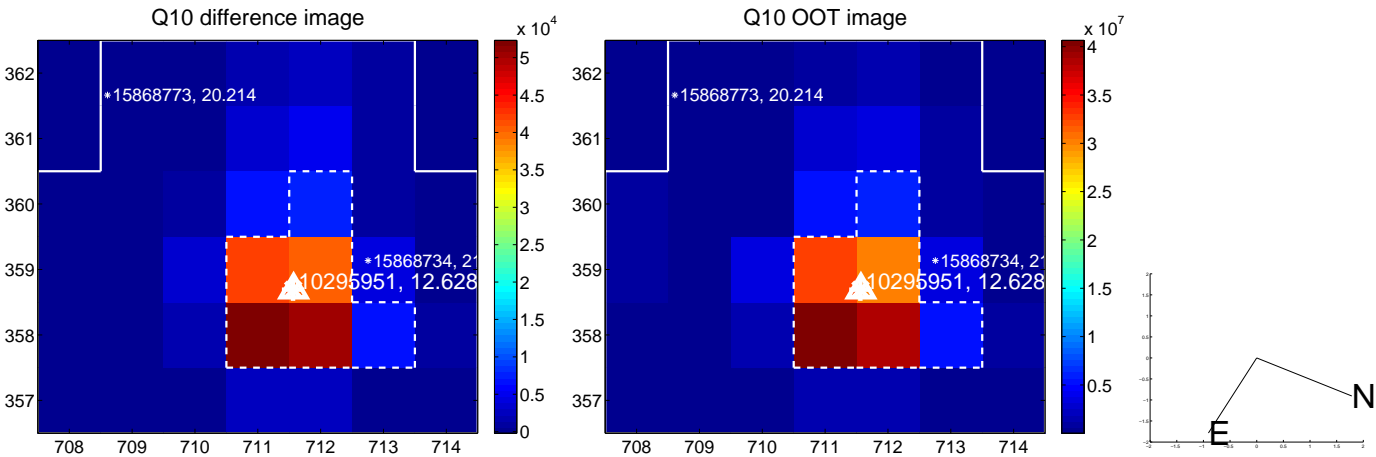
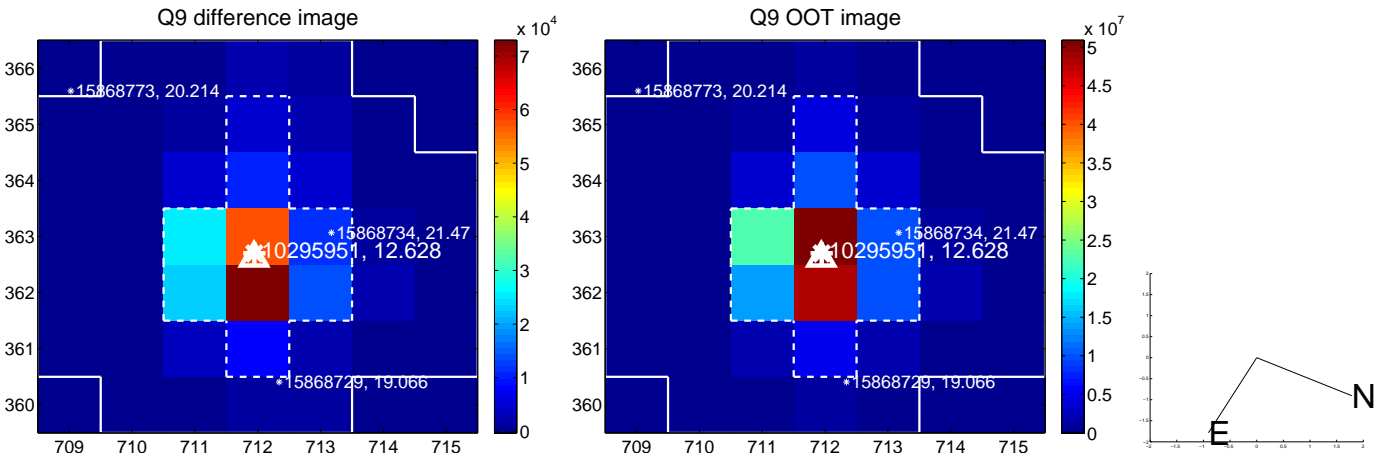
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



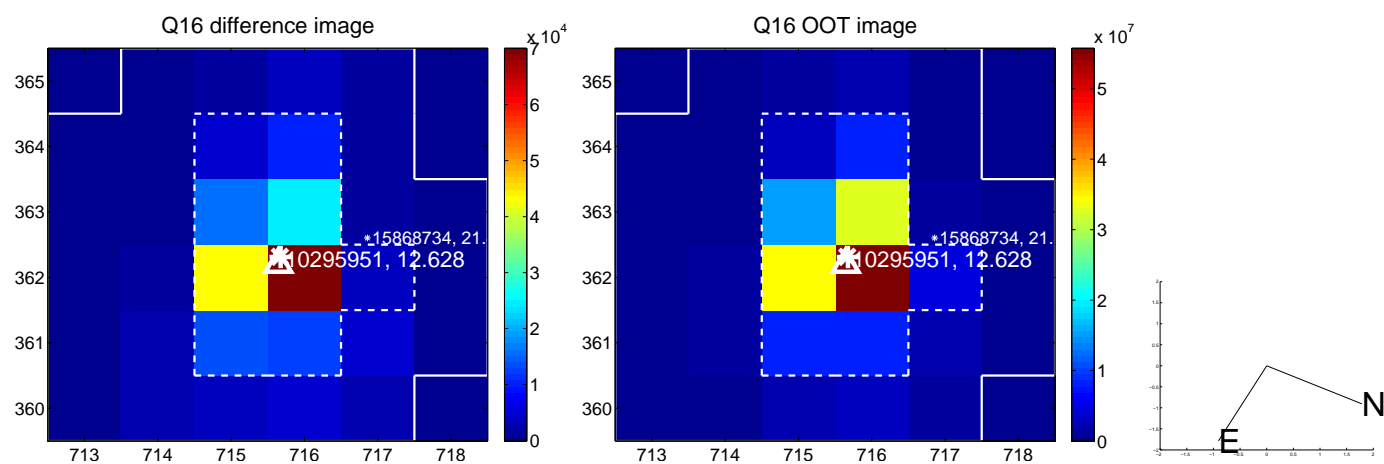
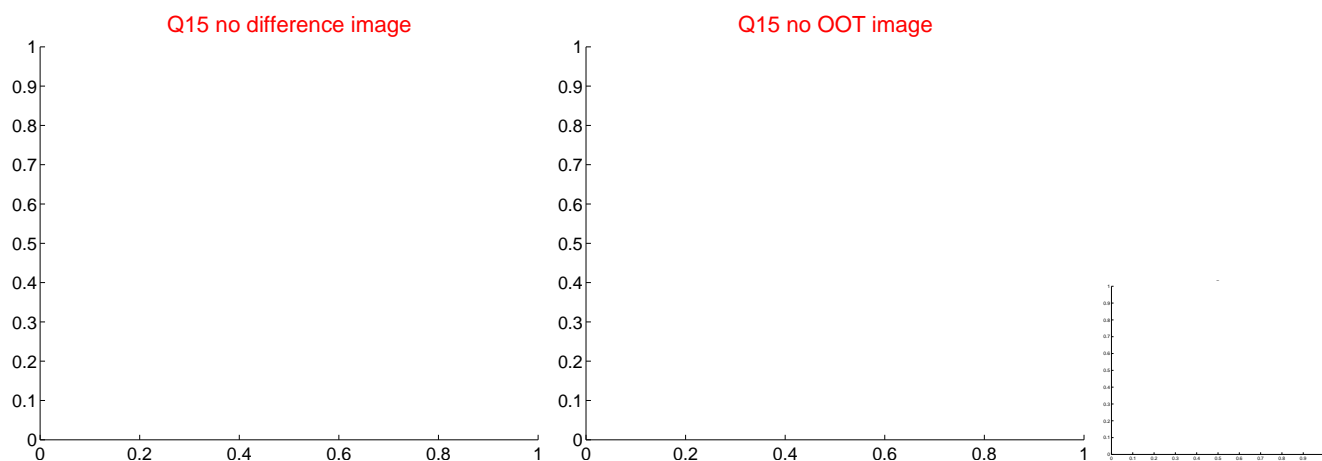
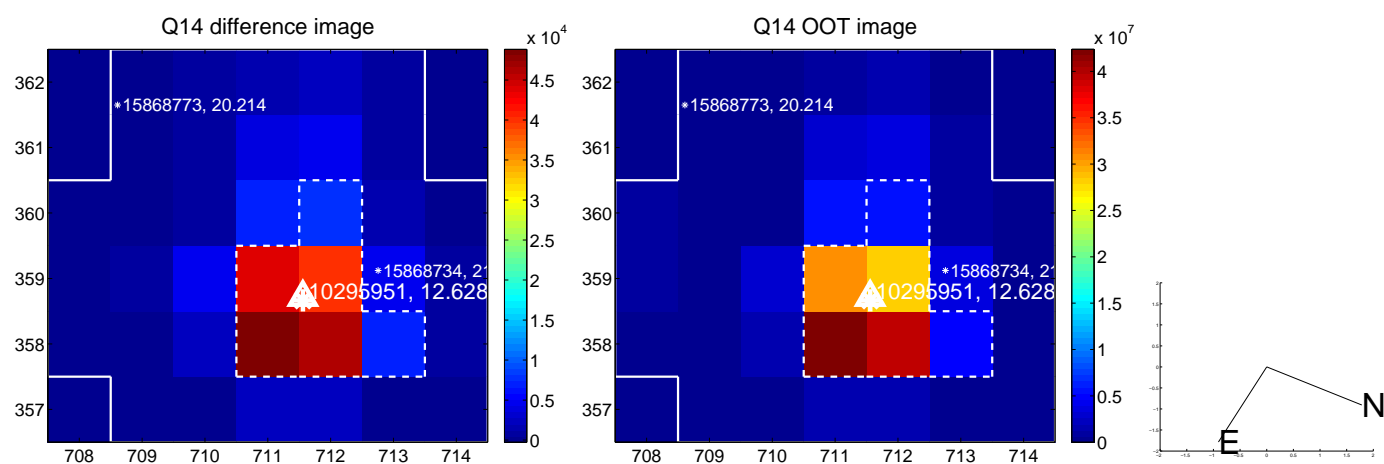
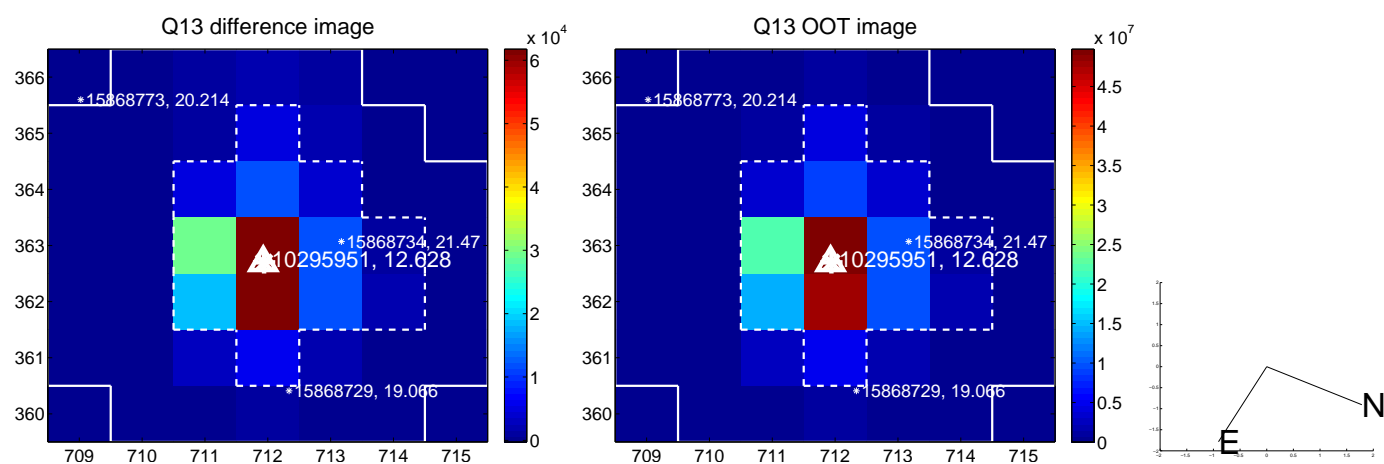
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



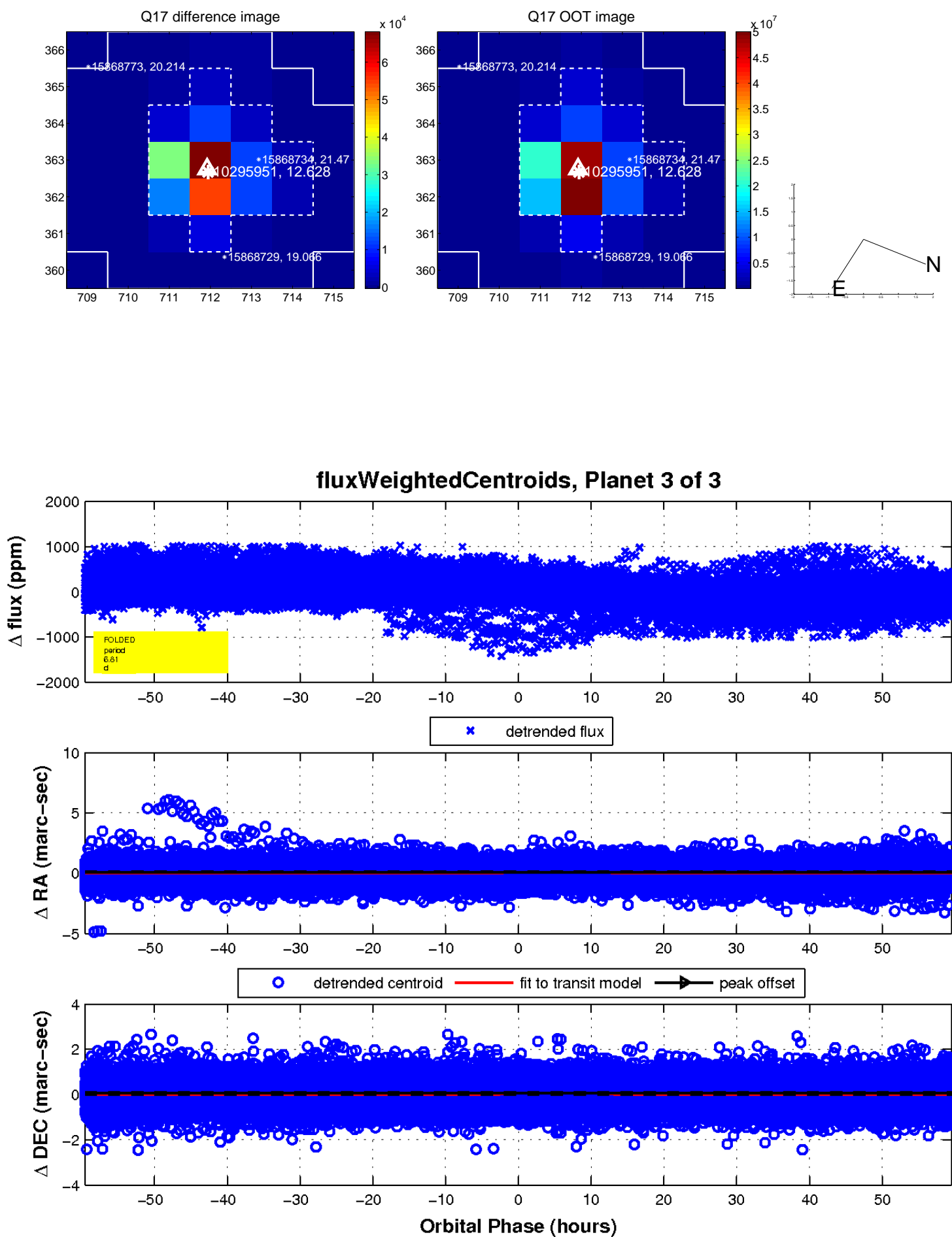
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

