

KIC 008695156

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})
008695156-01	OBS	No	0.910174	131.723042	124.7	2.670	8.4	8.1	3.65	7818	4.77	84069.75
008695156-02	OBS	No	0.682611	131.966435	167.9	2.509	9.8	10.4	3.65	7818	5.54	123378.96
008695156-03	OBS	No	121.395053	138.441096	661.9	14.741	7.6	5.1	3.65	7818	9.71	123.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008695156-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008695156-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008695156-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

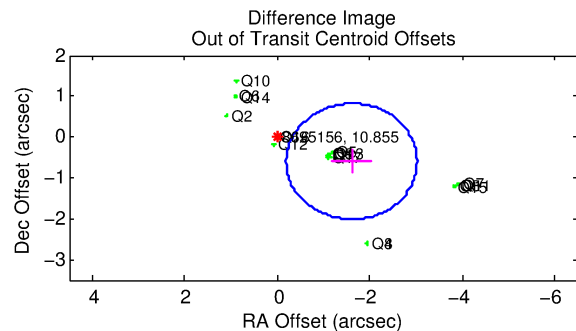
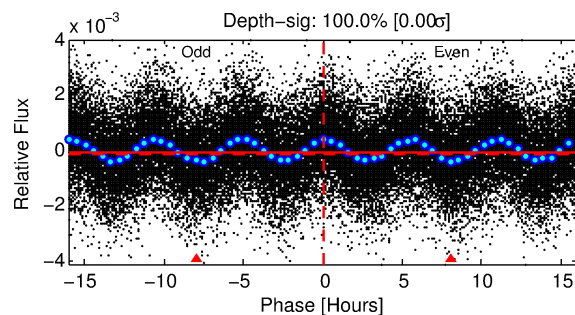
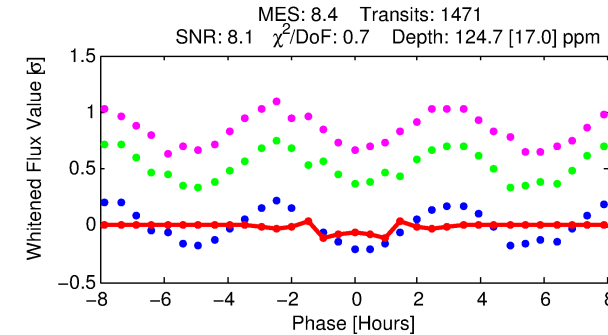
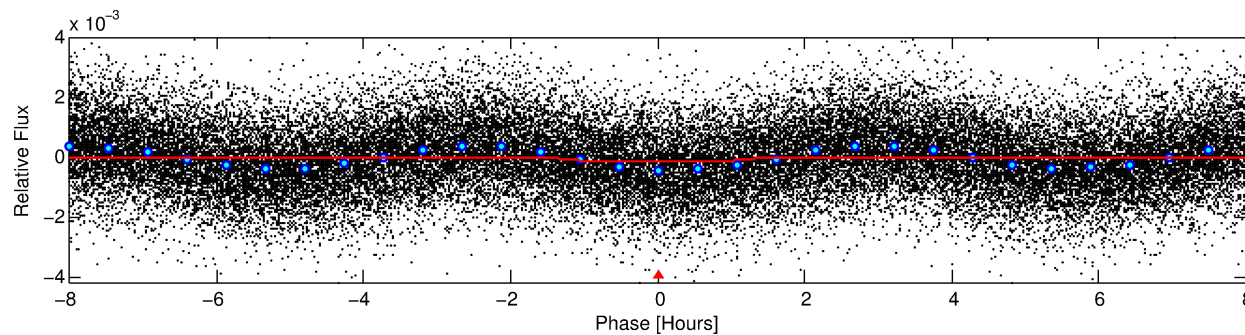
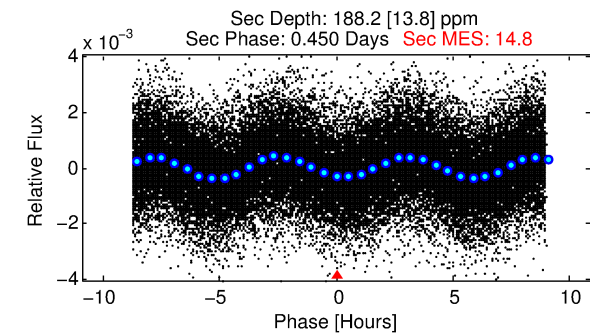
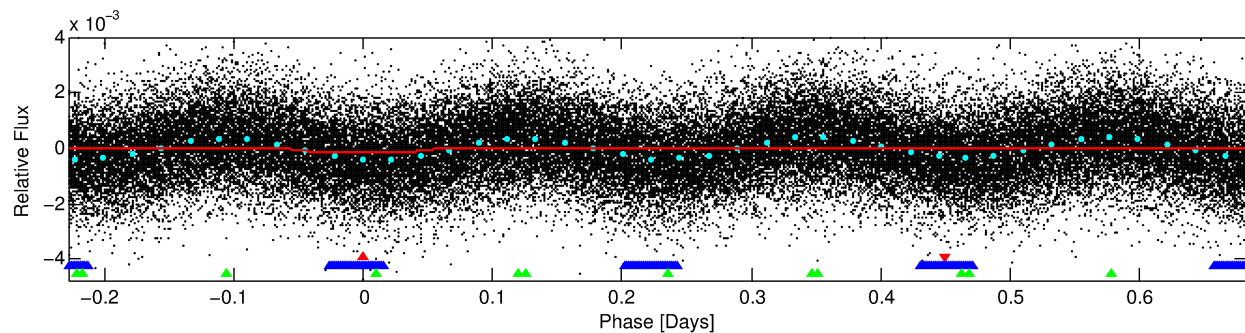
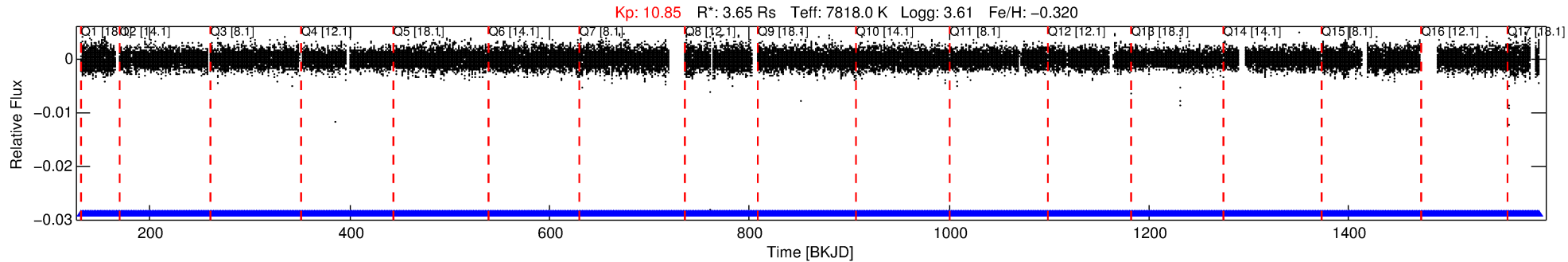
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008695156-01

No Significant Match Found

DV One-Page Summary

KIC: 8695156 Candidate: 1 of 3 Period: 0.910 d



DV Fit Results:

Period = 0.91017 [0.00001] d
Epoch = 131.7230 [0.0016] BKJD
Rp/R* = 0.0120 [0.0027]
a/R* = 1.53 [1.09]
b = 0.90 [0.27]
Seff = 84069.75 [70399.50]
Teff = 4342 [909] K
Rp = 4.77 [2.55] Re
a = 0.0230 [0.0115] AU
Ag = 2.41 [2.27] [0.62σ]
Teffp = 8367 [1009] K [2.96σ]

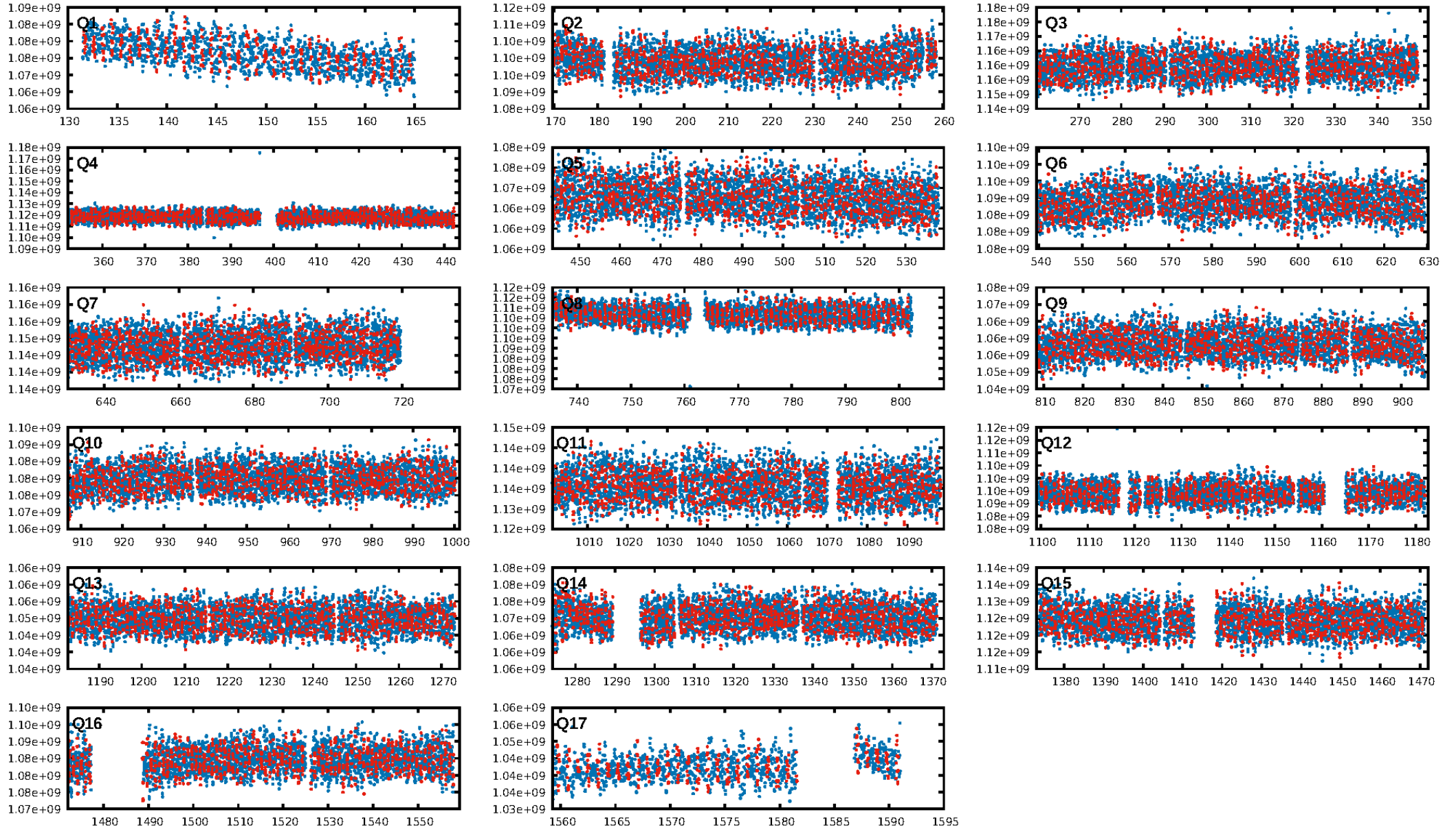
DV Diagnostic Results:

ShortPeriod-sig: 86.4% [1.49σ]
LongPeriod-sig: 100.0% [193.02σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.84e-18
RollingBand-fgt: 1.00 [1404/1404]
GhostDiagnostic-chr: -3.786
Centroid-sig: 0.6%
Centroid-so: 0.132 arcsec [1.05σ]
OotOffset-rm: 1.715 arcsec [3.63σ]
KicOffset-rm: 1.835 arcsec [3.63σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 0.00 [0/17]

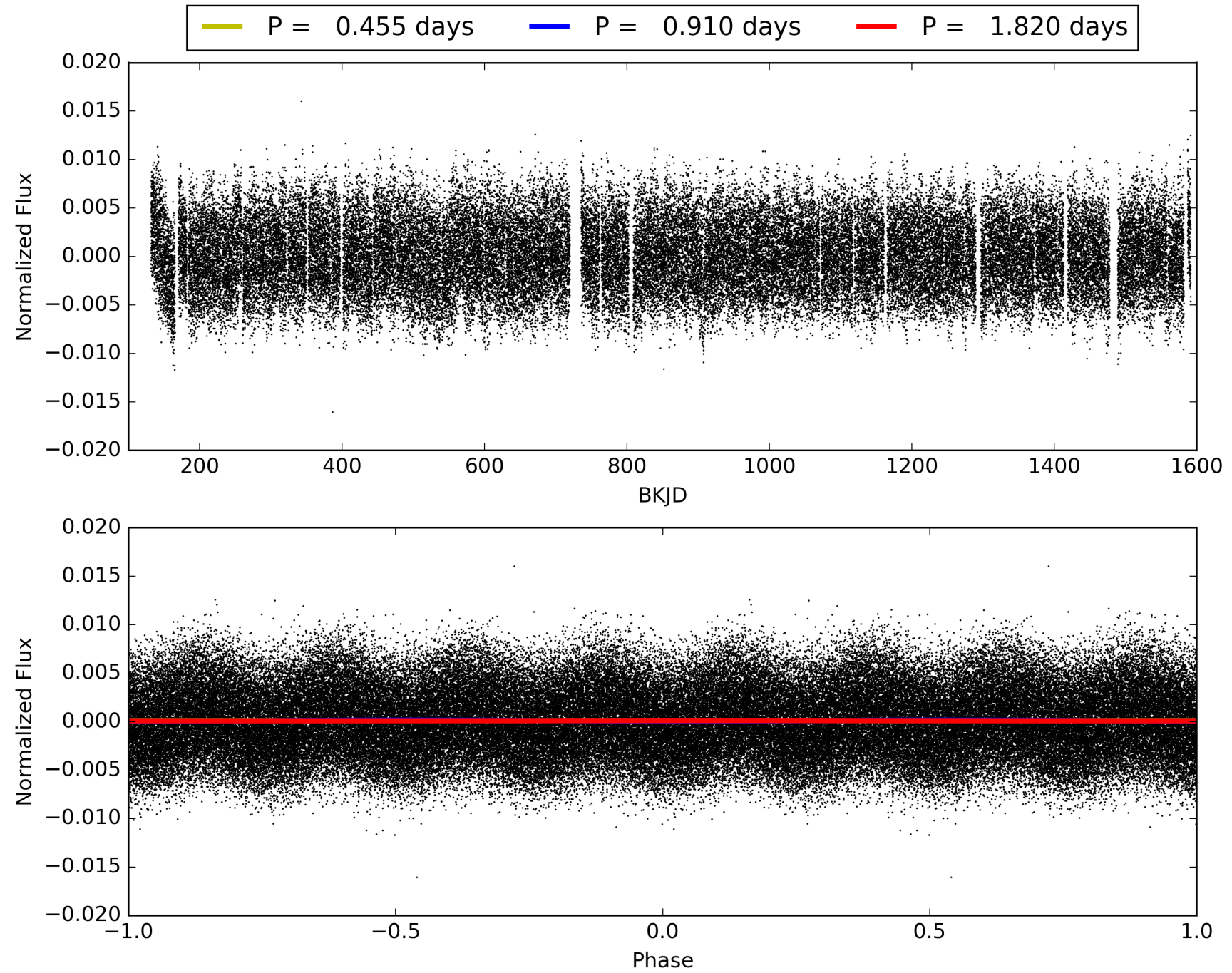
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:50:25 Z

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

TCE 008695156-01, PDC Light Curves

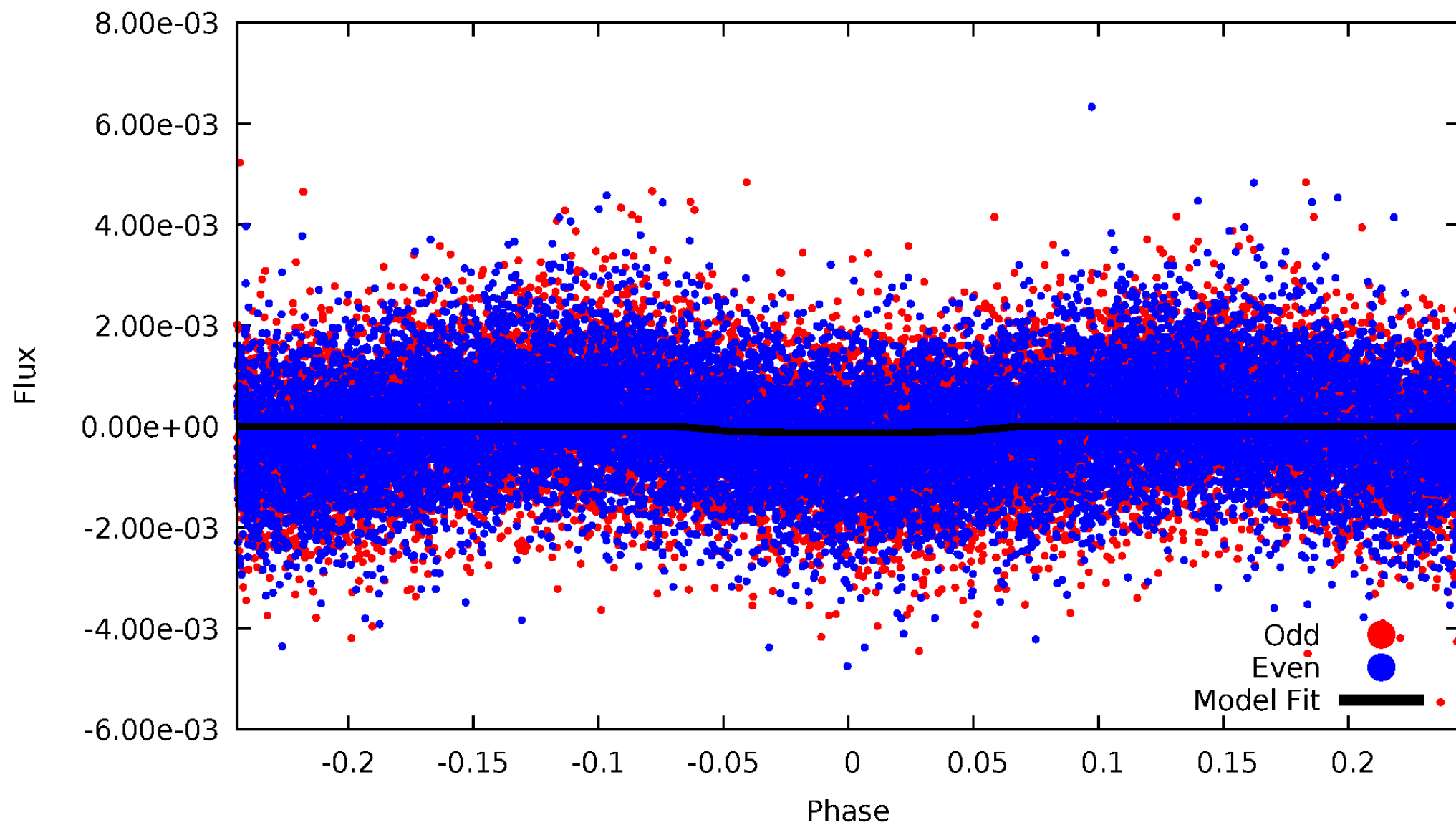


TCE 008695156-01



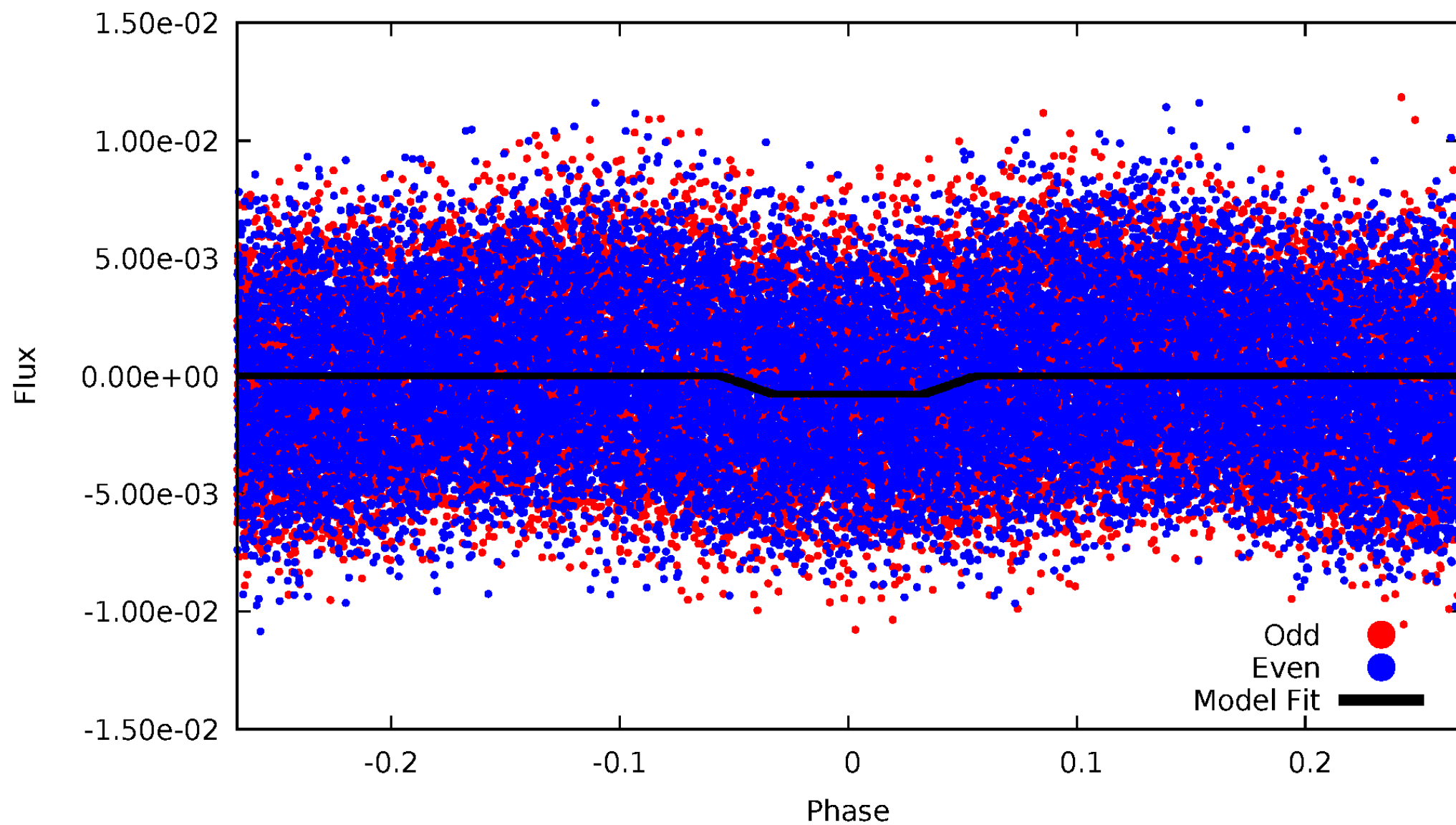
DV Odd/Even

TCE 008695156-01



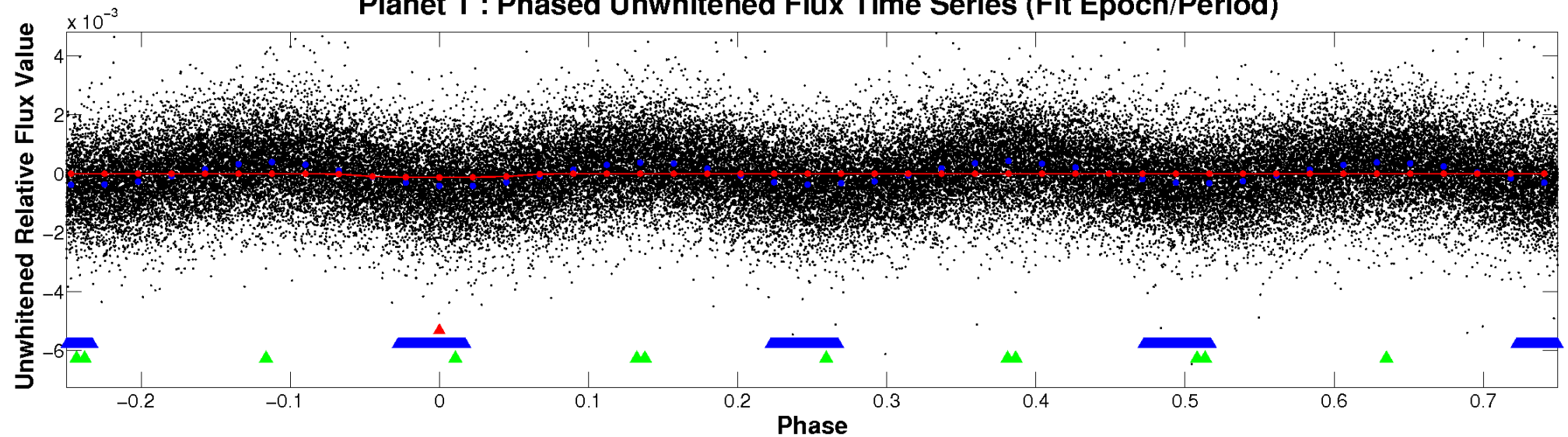
ALT Odd/Even

TCE 008695156-01

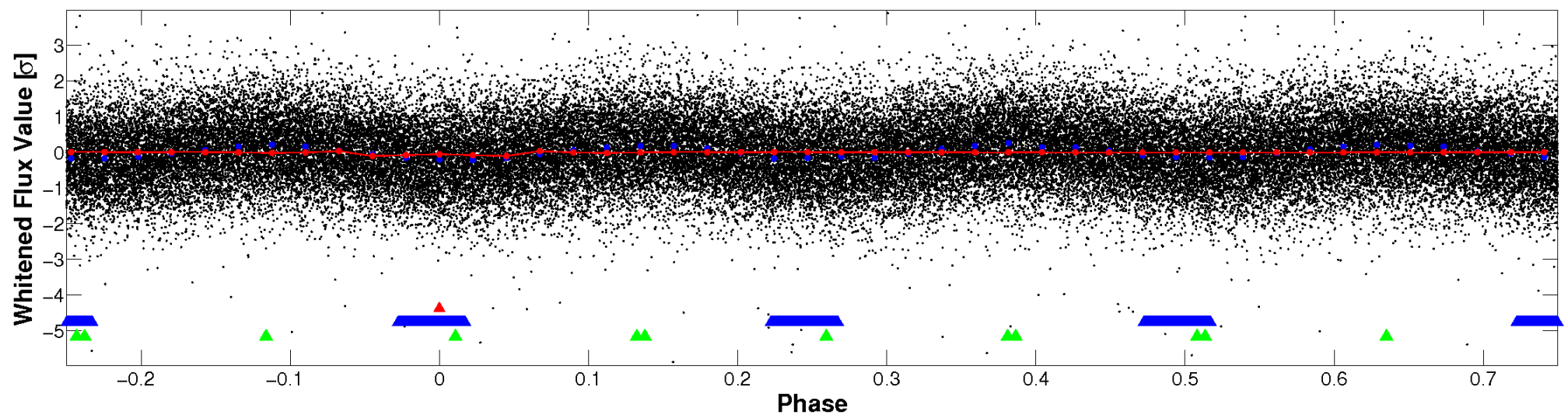


Non-Whitened Vs. Whitened Light Curve

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

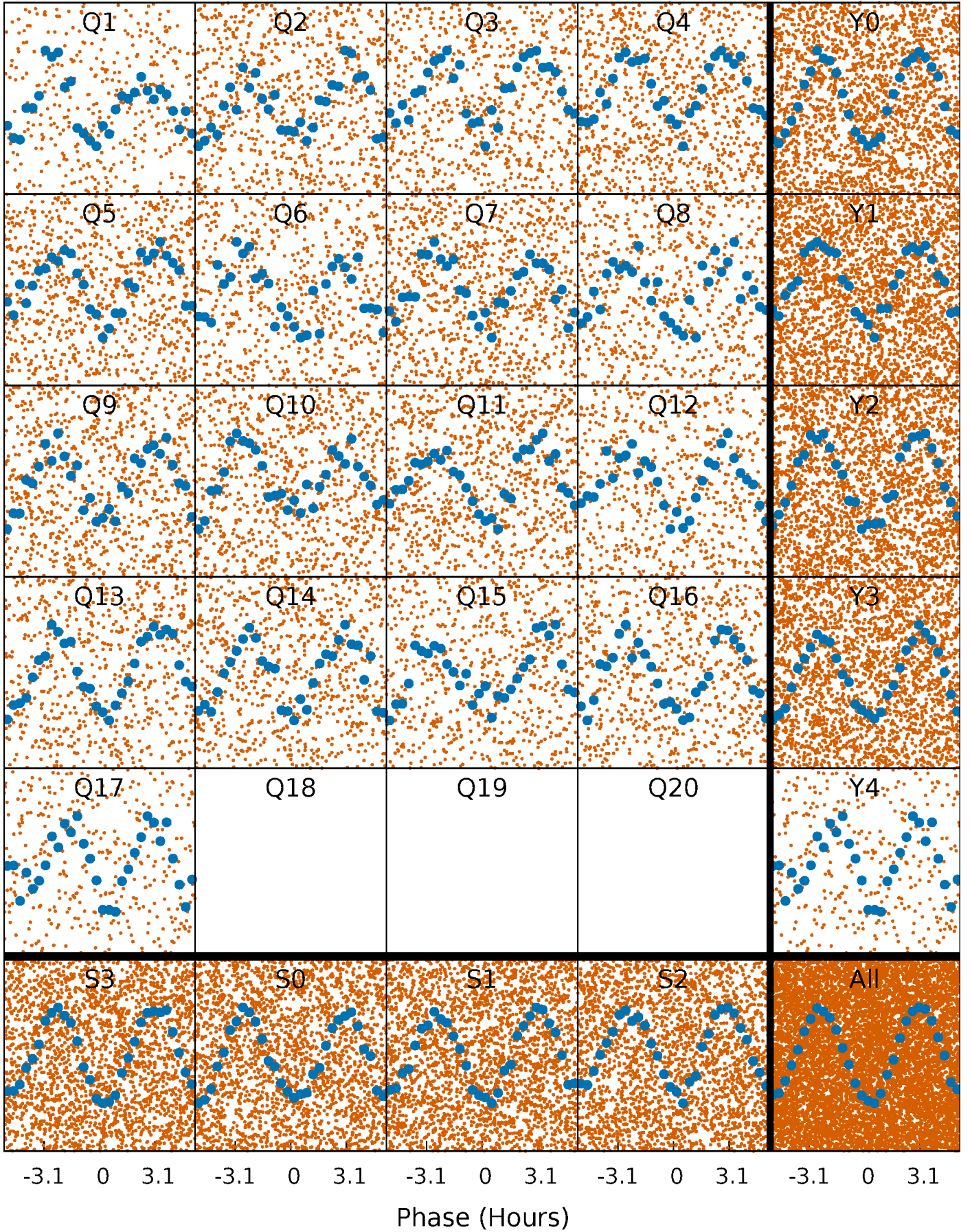


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



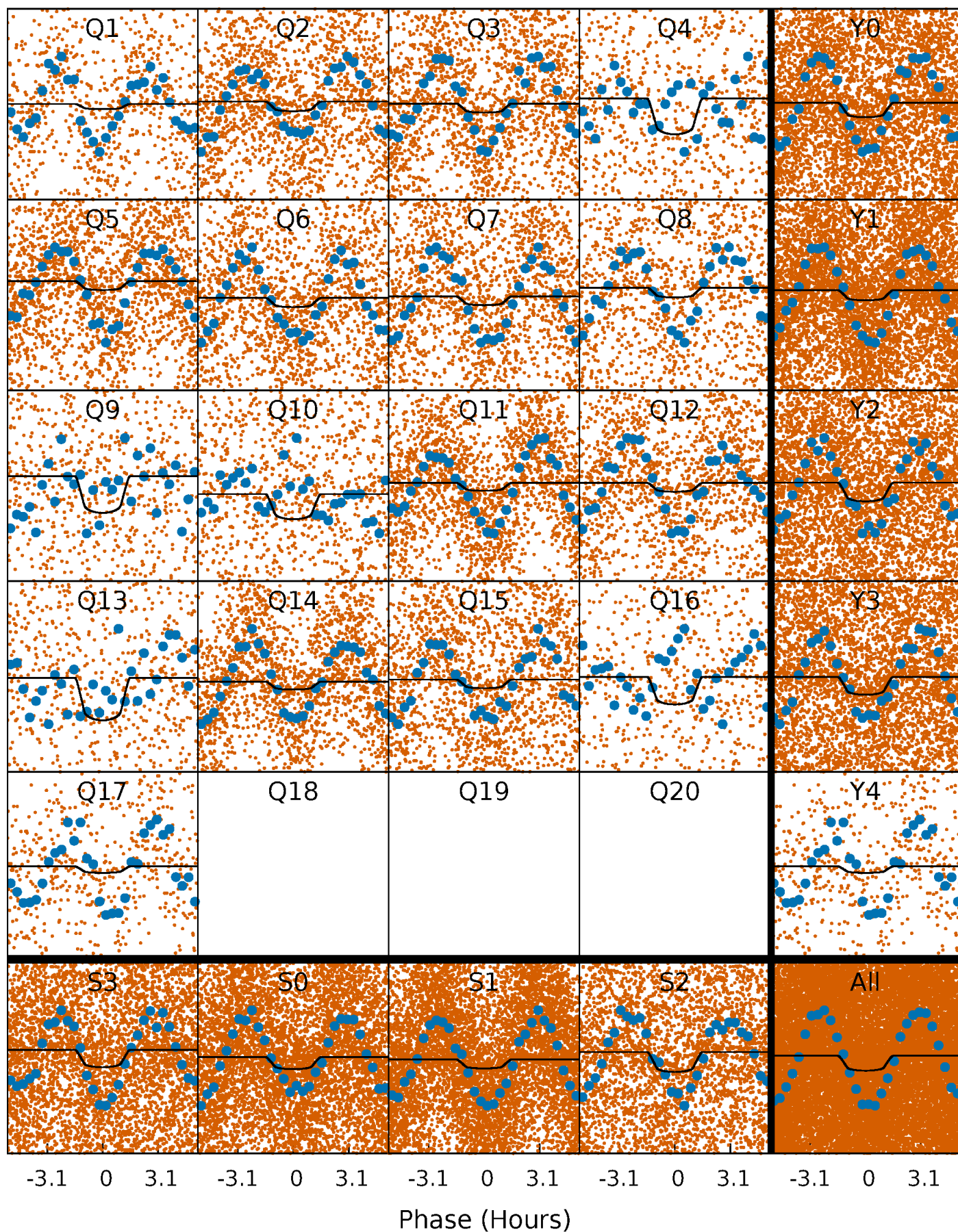
PDC Quarter-Phased Transit Curves

TCE 008695156-01 P= 0.910174 Days $T_0=131.723042$ (BKJD)



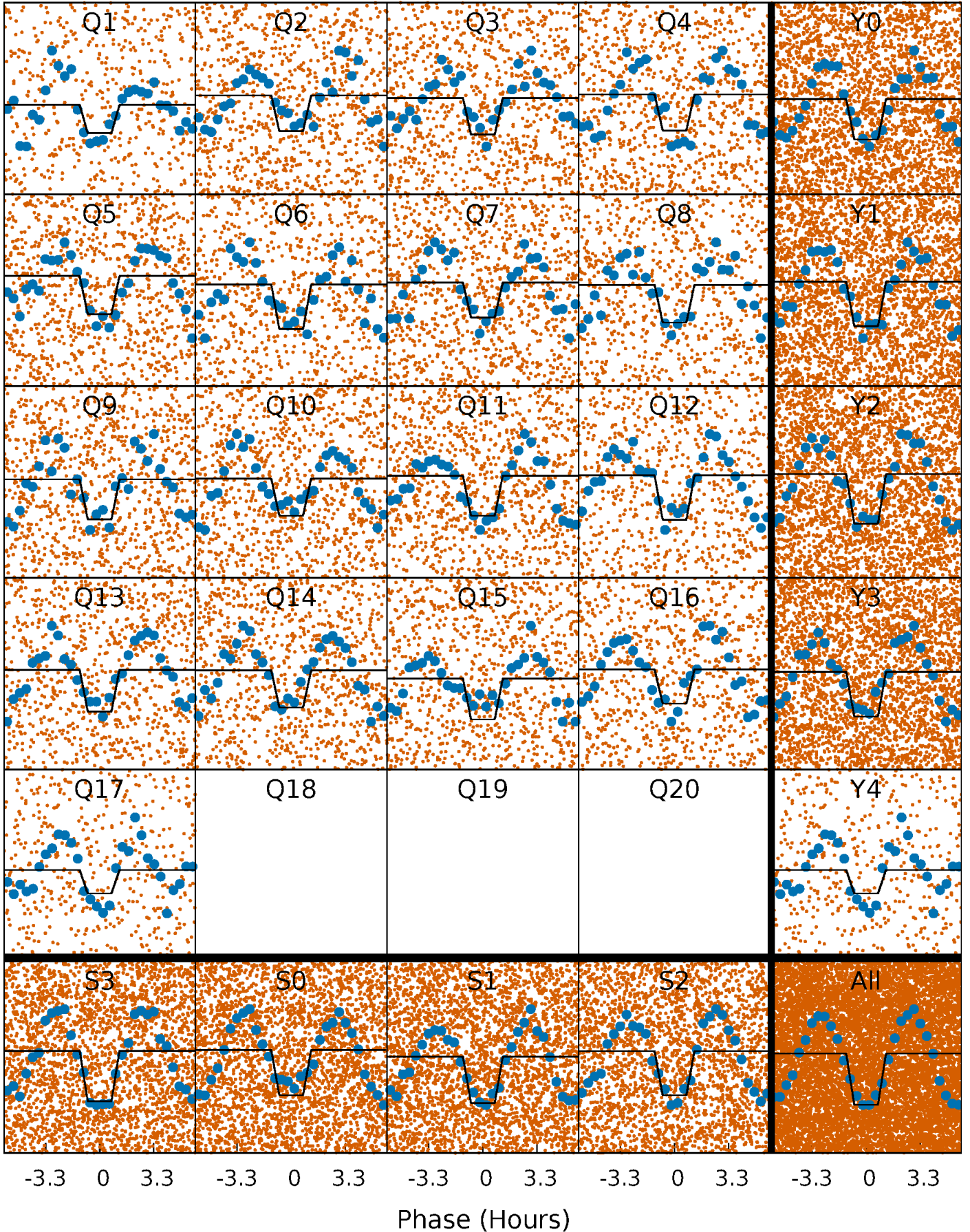
DV Quarter-Phased Transit Curves

TCE 008695156-01 P= 0.910174 Days $T_0=131.723042$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

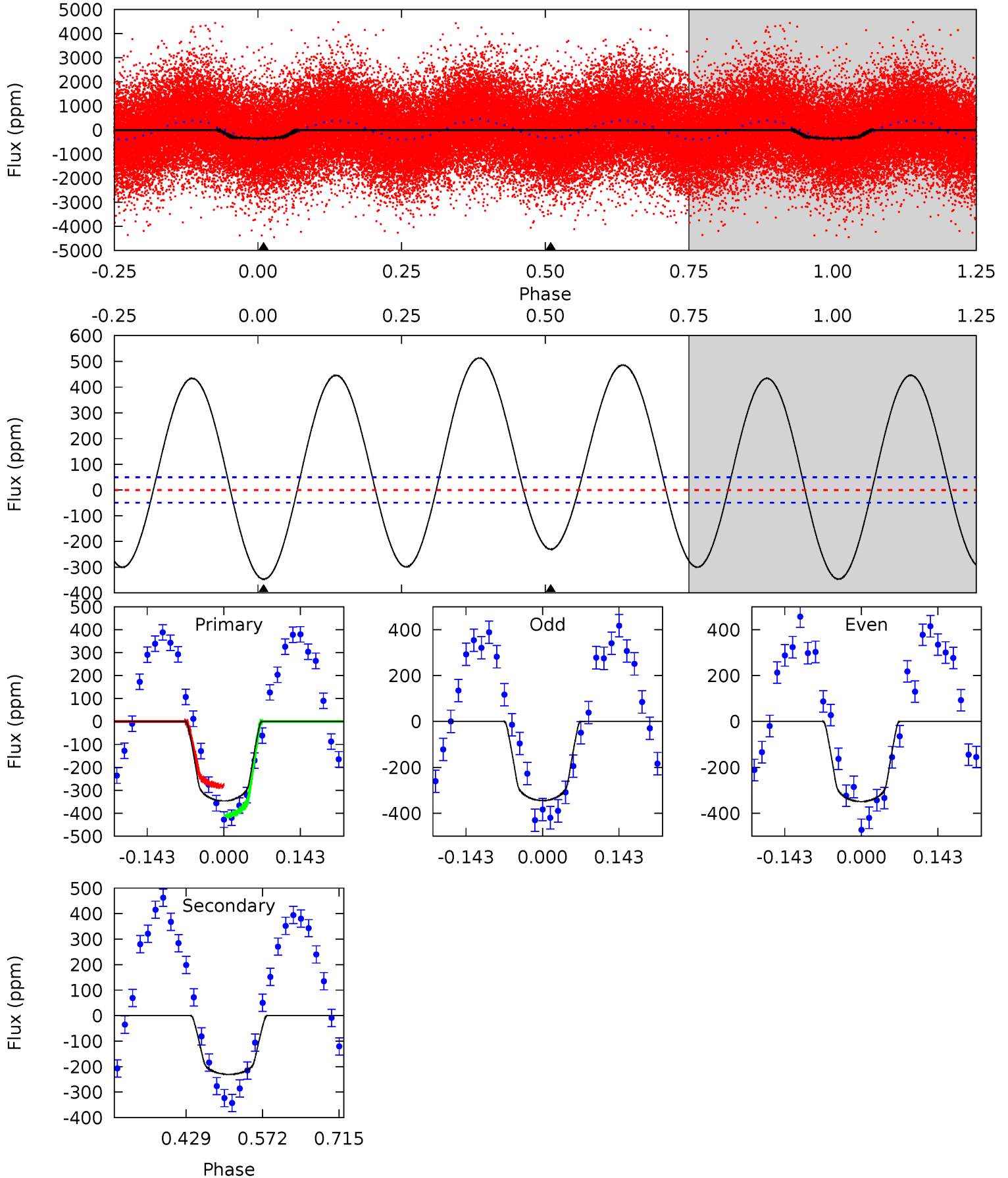
TCE 008695156-01 P= 0.910194 Days $T_0=131.718870$ (BKJD)



DV Model-Shift Uniqueness Test

008695156-01, P = 0.910174 Days, E = 130.812868 Days

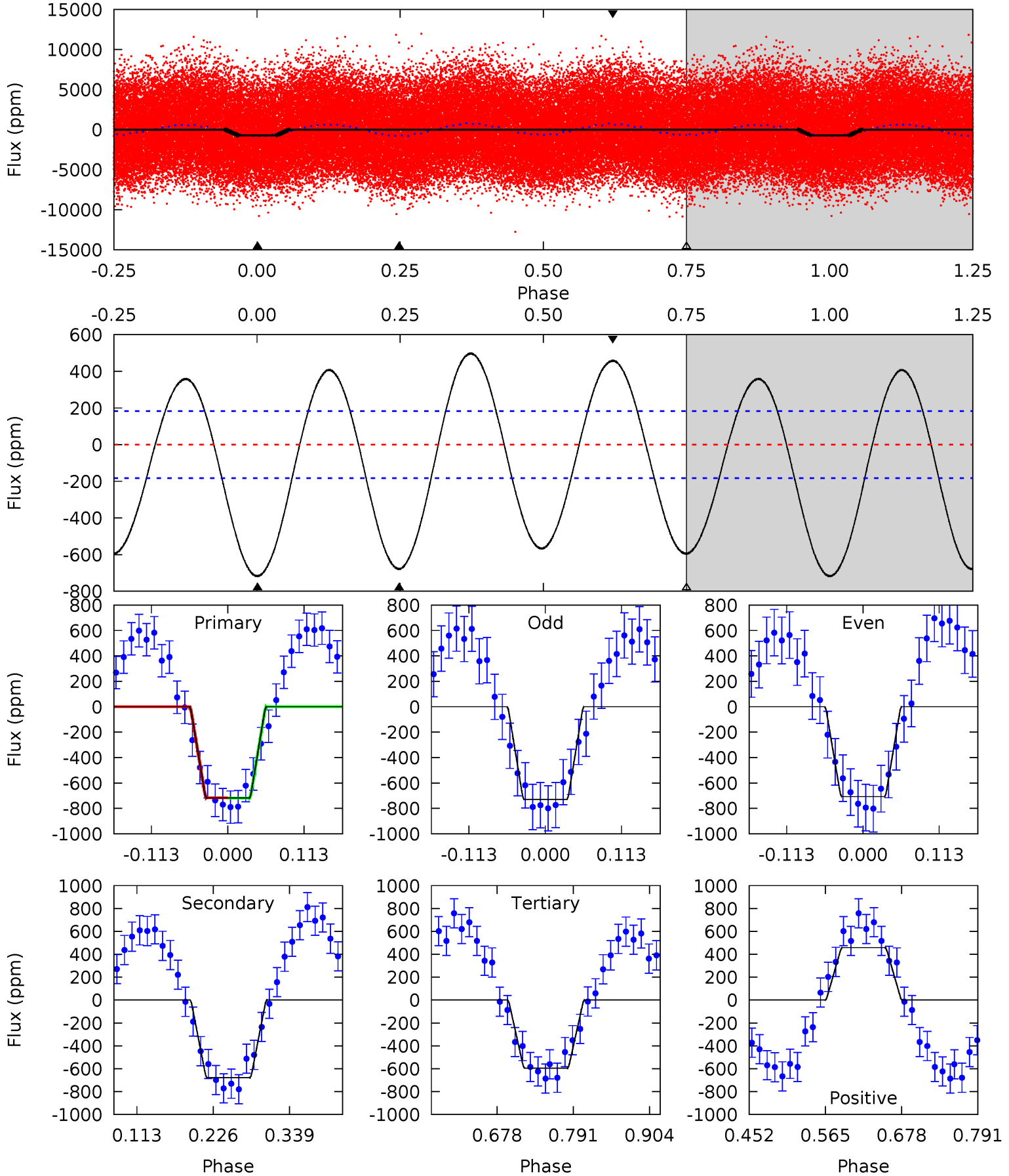
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.6	21.0	0	0	4.49	1.46	22.3	31.6	31.6	21.0	21.0	0.21	1.02	0.60	6.04



Alt Model-Shift Uniqueness Test

008695156-01, P = 0.910194 Days, E = 130.808676 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.8	16.9	14.8	11.4	4.54	1.59	9.25	3.04	6.43	2.08	5.48	0.26	0.92	0.41	0.03



Stellar Parameters For KIC 008695156

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7818^{+247}_{-302}	$3.607^{+0.493}_{-0.087}$	$-0.320^{+0.250}_{-0.300}$	$3.650^{+0.632}_{-1.771}$	$1.965^{+0.156}_{-0.469}$	$0.057^{+0.316}_{-0.016}$
	+3%/-4%	+14%/-2%	+78%/-94%	+17%/-49%	+8%/-24%	+555%/-29%
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 008695156-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-230 ± 11	$4.23^{+1.37}_{-1.35}$	5839^{+421}_{-743}	8738^{+1862}_{-1156}	$3.640^{+3.947}_{-1.525}$
Alt.	-679 ± 40	$10.06^{+2.10}_{-2.48}$	5835^{+444}_{-730}	7141^{+611}_{-537}	$1.924^{+1.384}_{-0.575}$

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

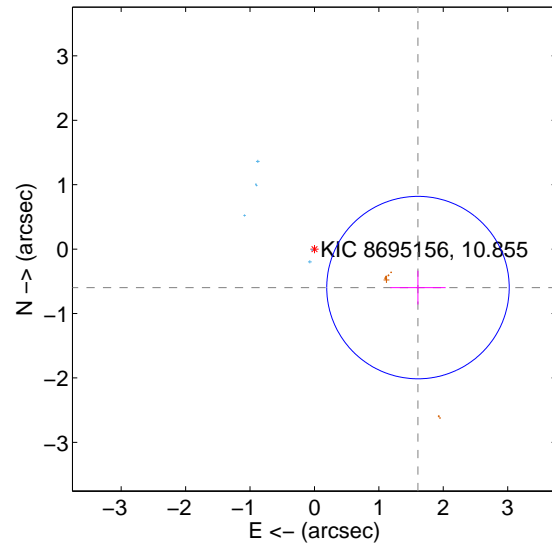
Supplemental centroid analysis for 008695156-01. **Kepler magnitude: 10.86.** Transit SNR 8.12

There are 10 quarters with good PRF difference image offsets

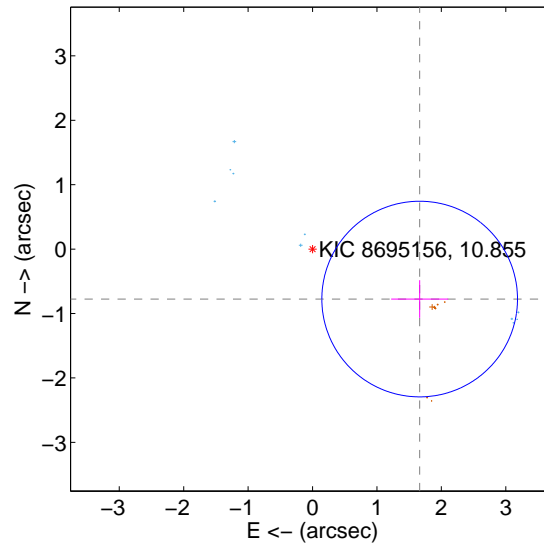
The direct PRF centroid is offset from the target star catalog position by about 0.85 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.715 ± 0.472	3.63	-1.607 ± 0.429	-0.597 ± 0.263
PRF-fit source offset from KIC position	1.835 ± 0.506	3.63	-1.663 ± 0.442	-0.776 ± 0.293
photometric centroid source offset	0.13 ± 0.13	1.05	0.12 ± 0.13	0.05 ± 0.11

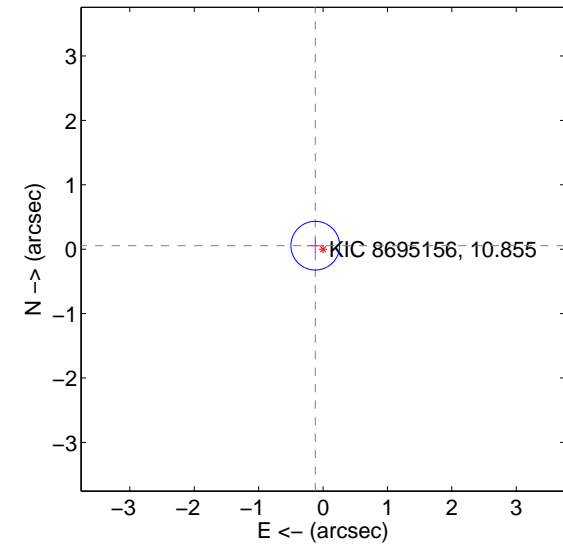
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

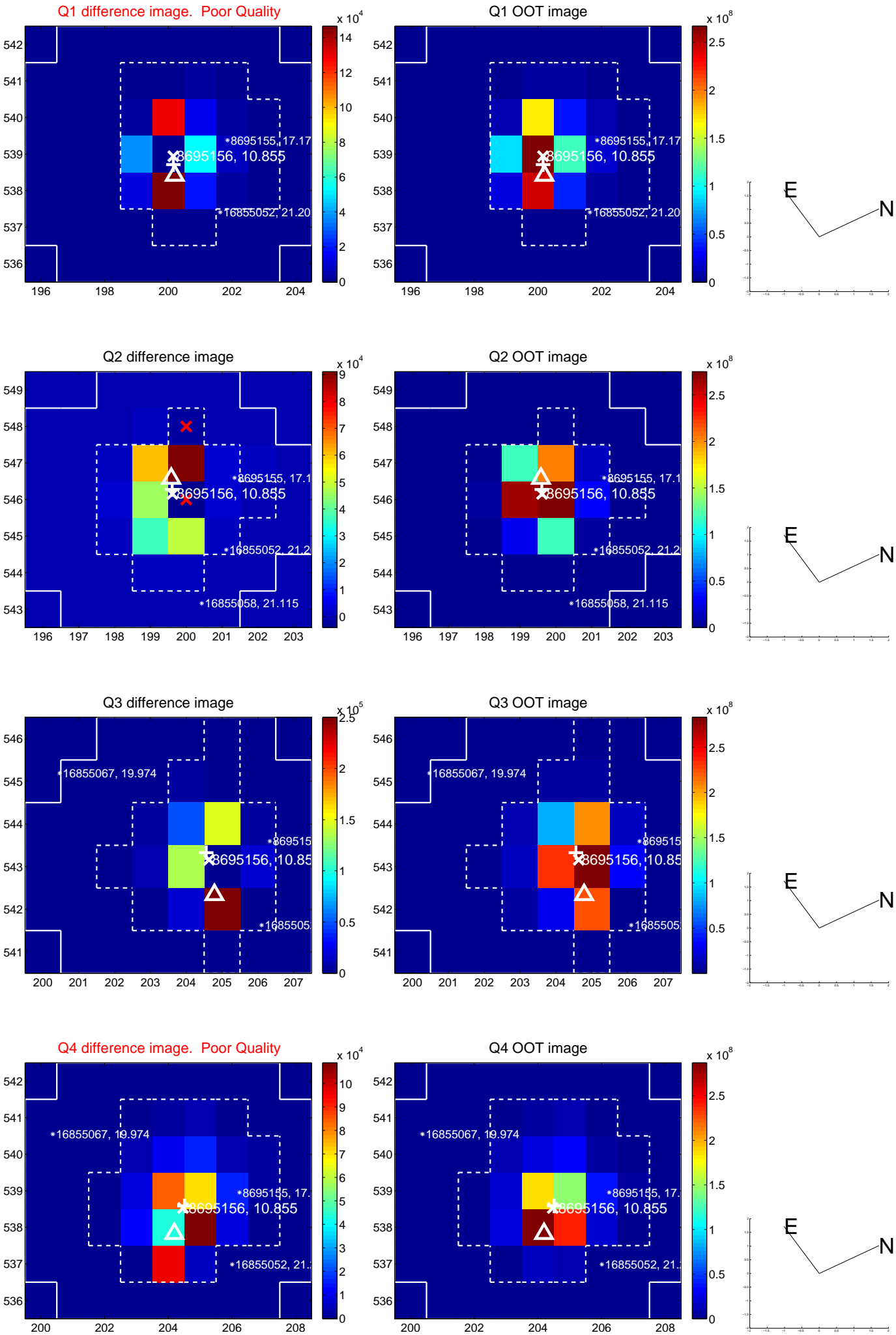


offset from photometric centroids

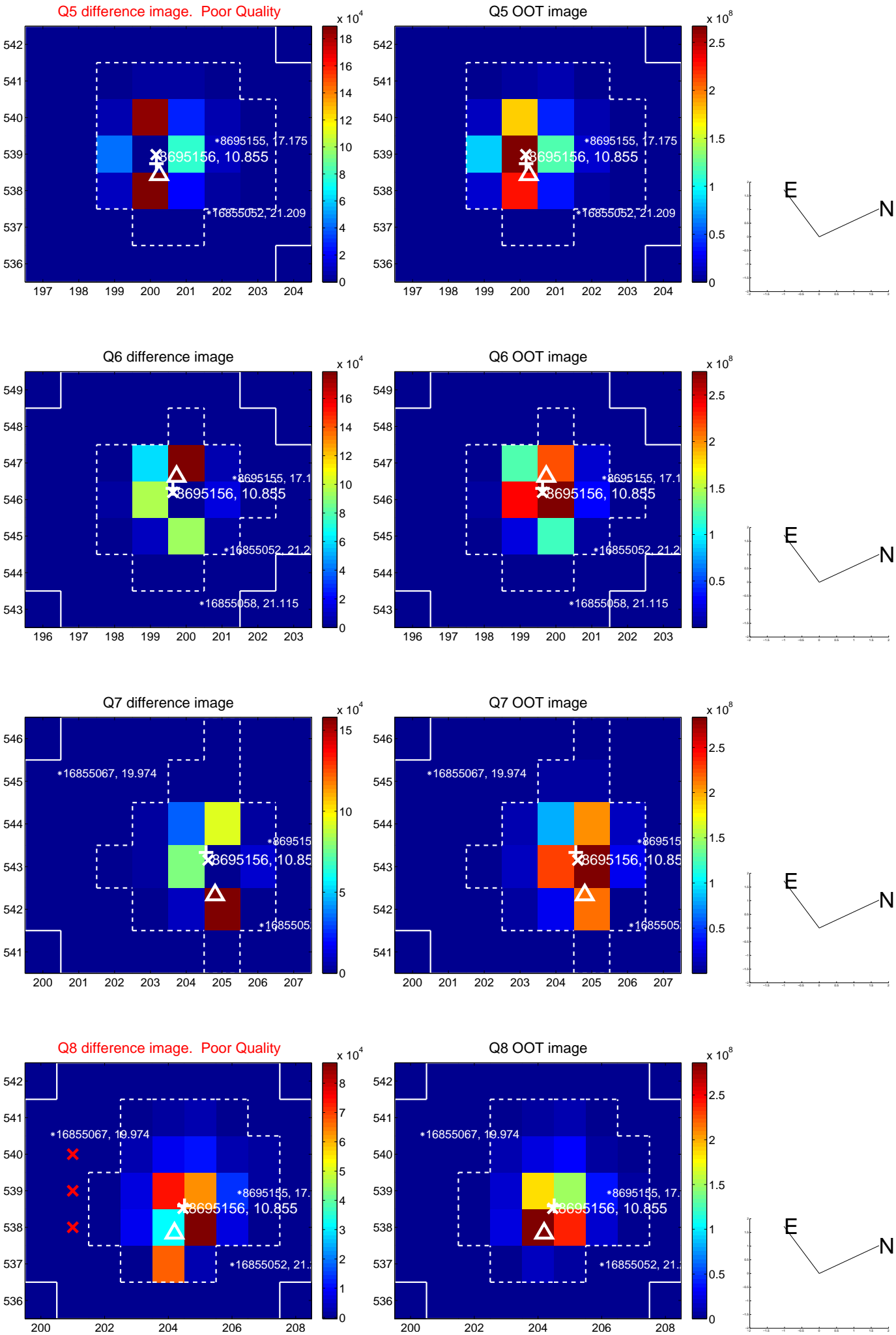


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

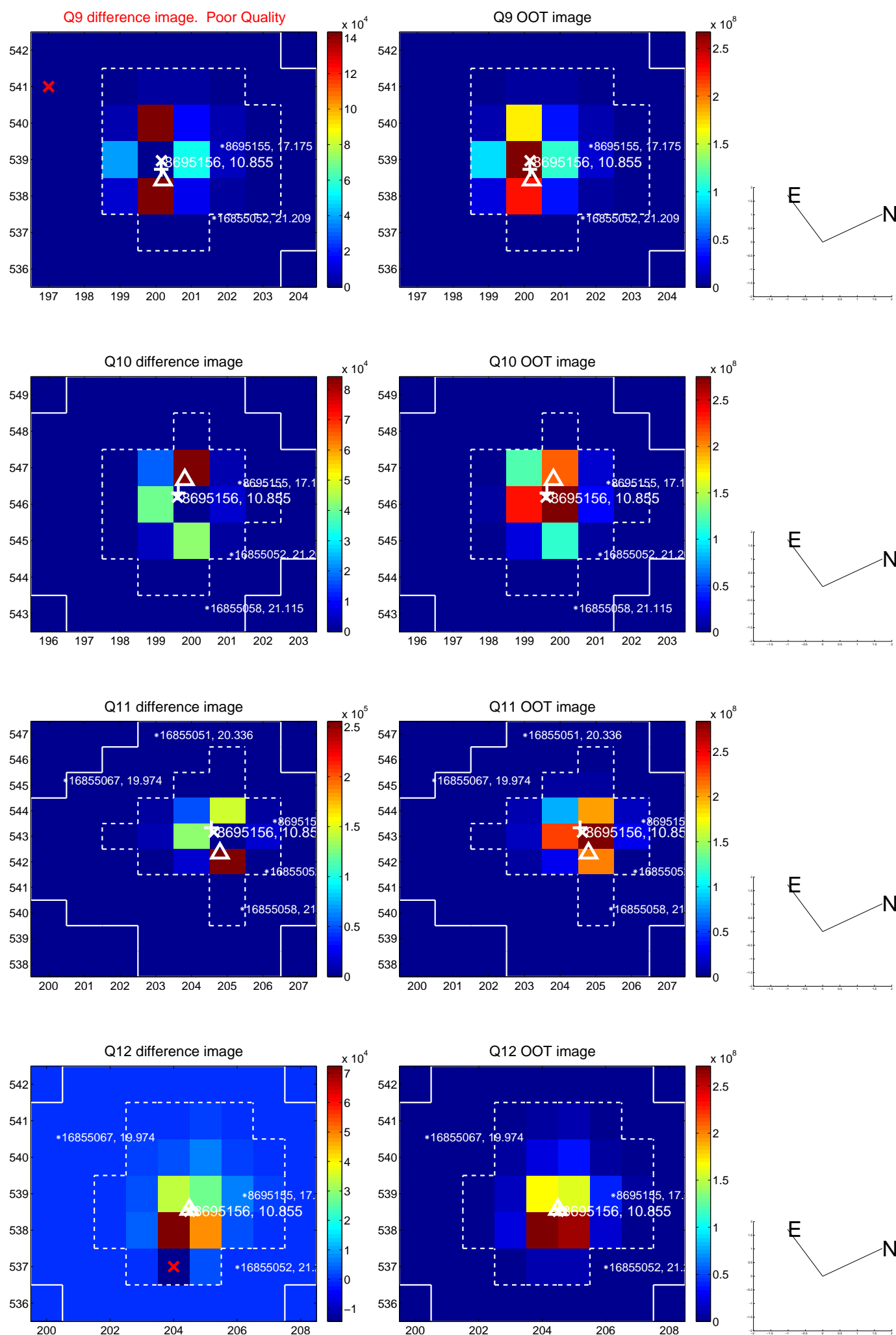
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



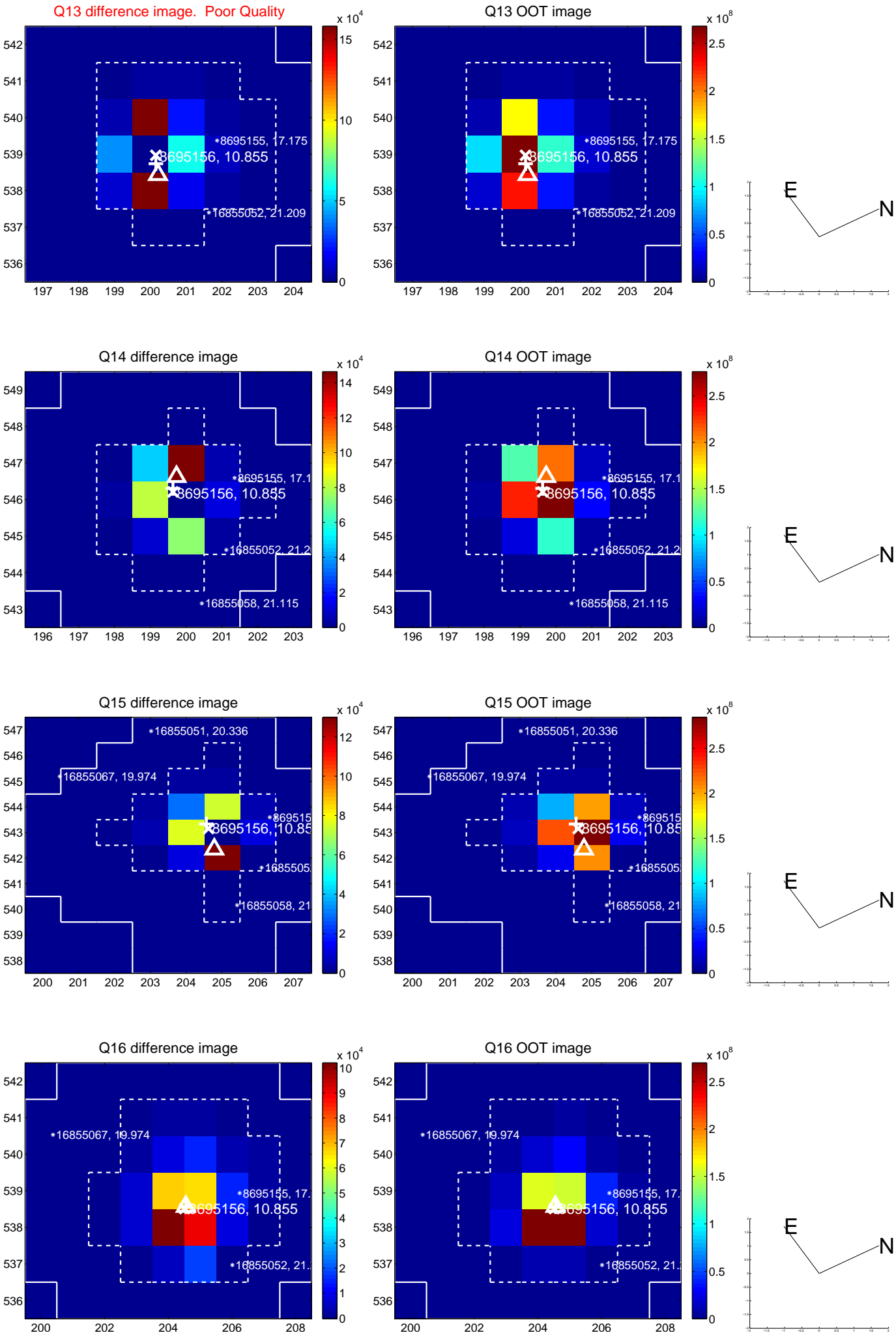
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



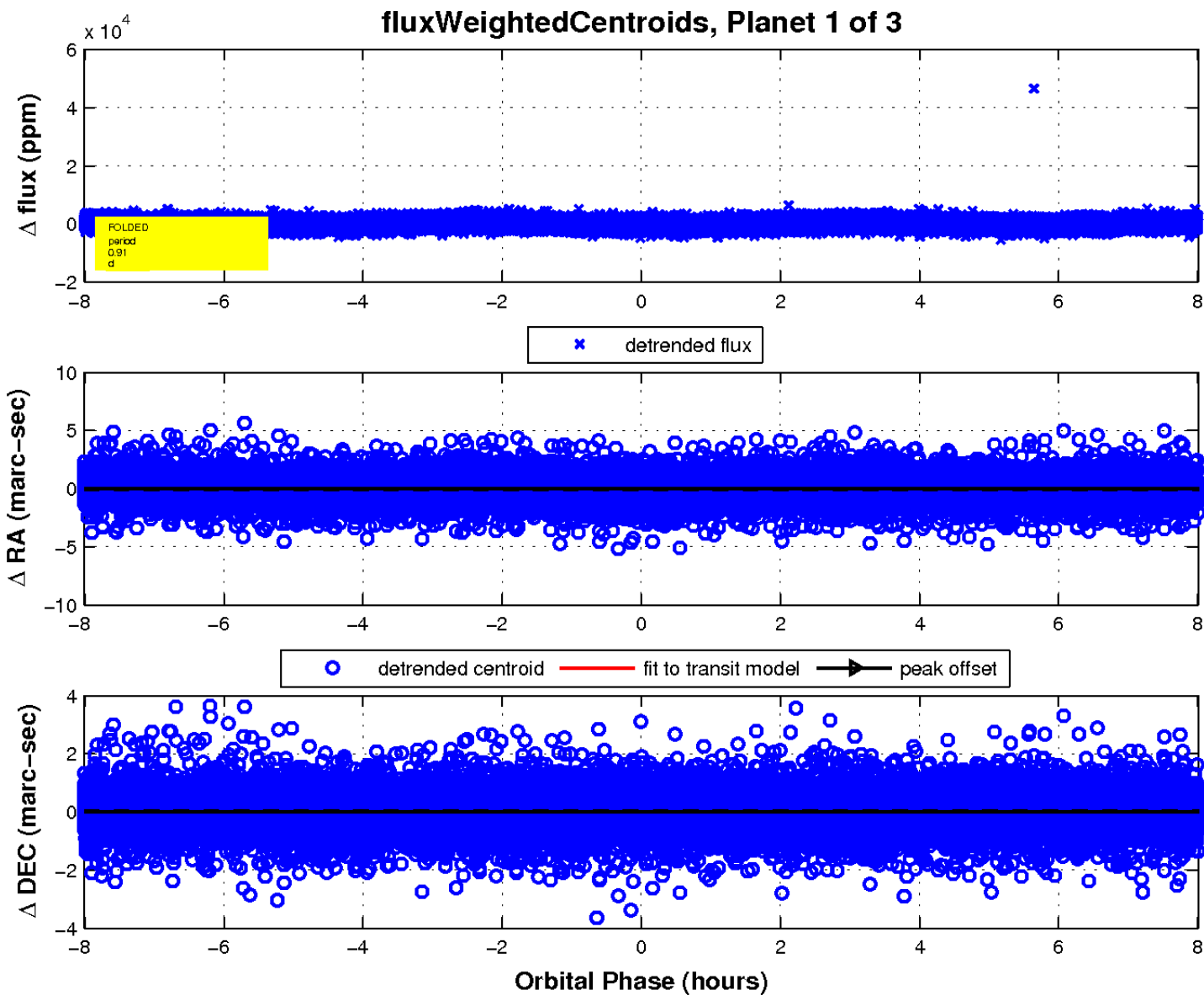
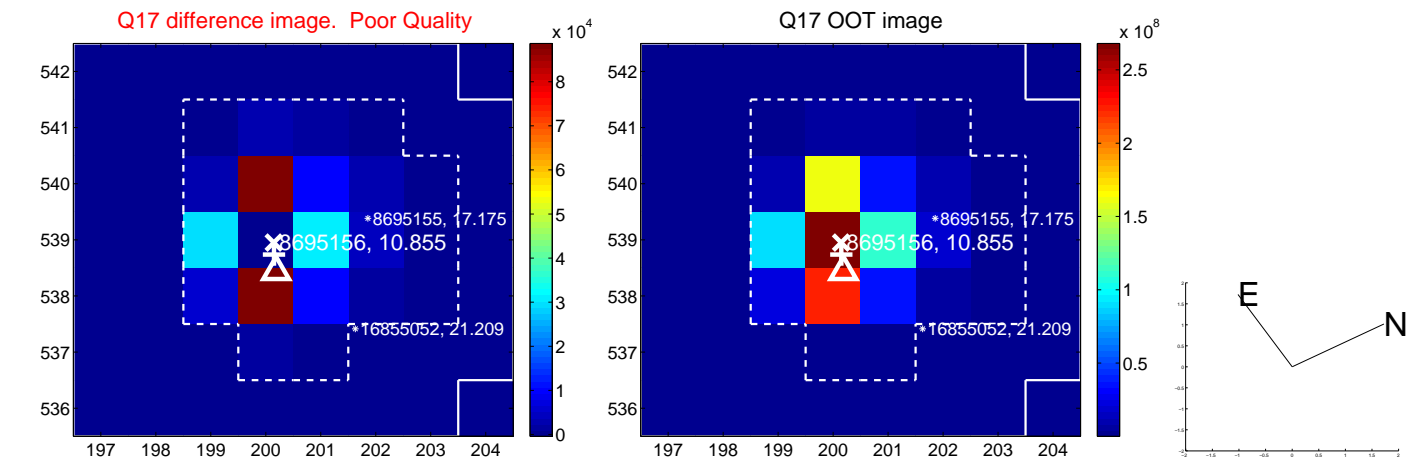
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



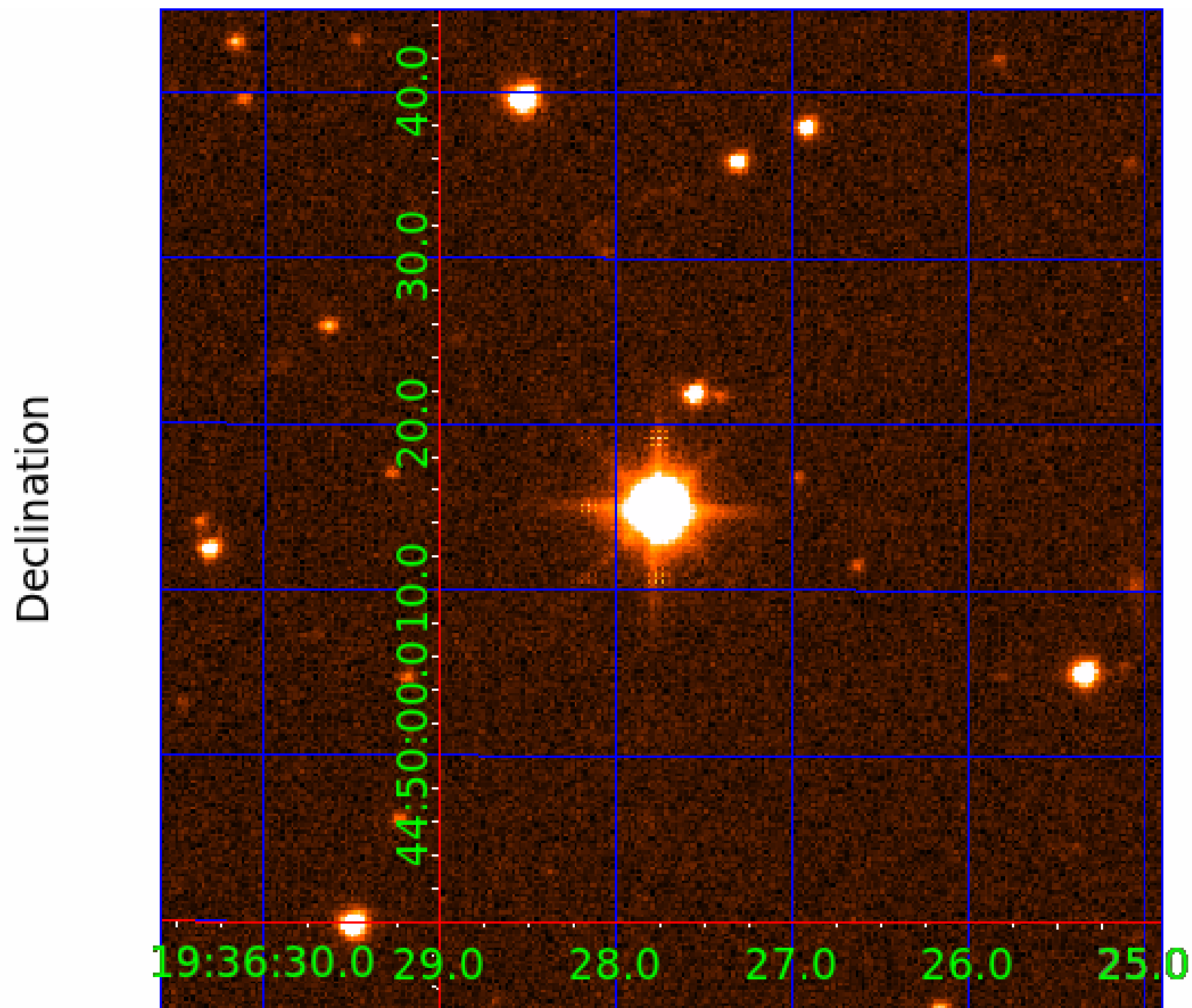
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 008695156

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})
008695156-01	OBS	No	0.910174	131.723042	124.7	2.670	8.4	8.1	3.65	7818	4.77	84069.75
008695156-02	OBS	No	0.682611	131.966435	167.9	2.509	9.8	10.4	3.65	7818	5.54	123378.96
008695156-03	OBS	No	121.395053	138.441096	661.9	14.741	7.6	5.1	3.65	7818	9.71	123.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008695156-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008695156-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008695156-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

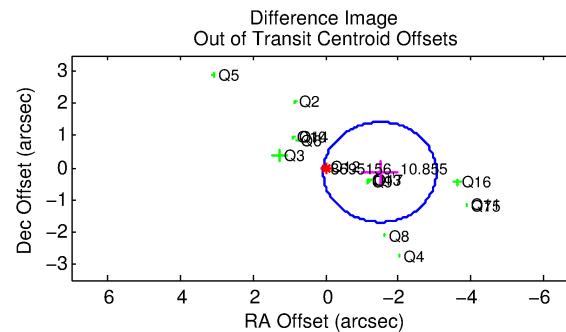
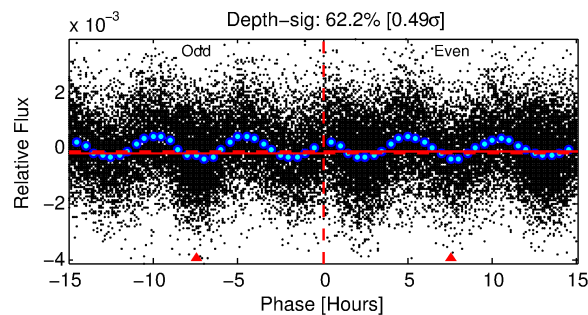
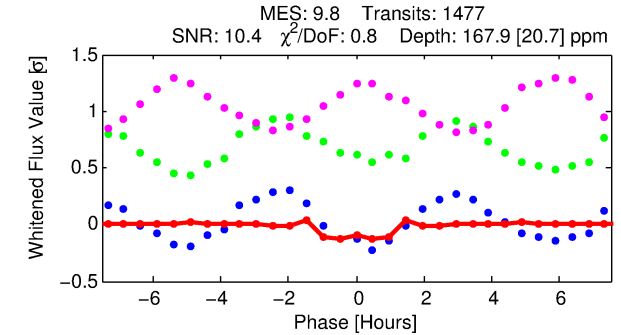
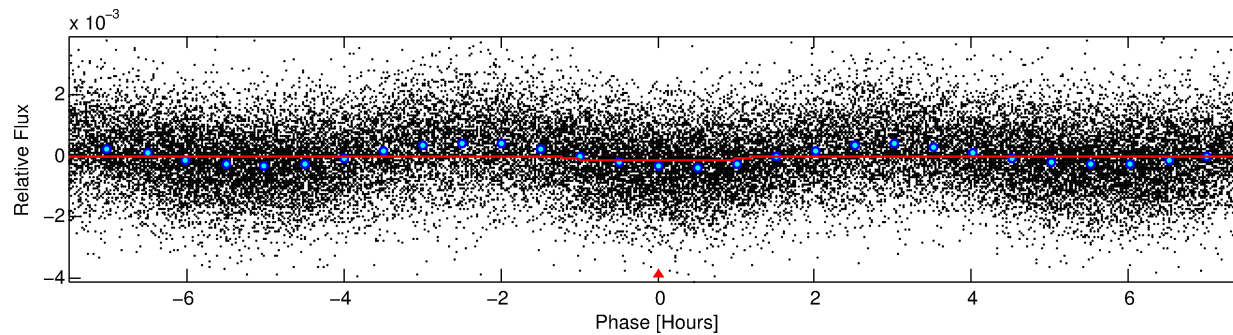
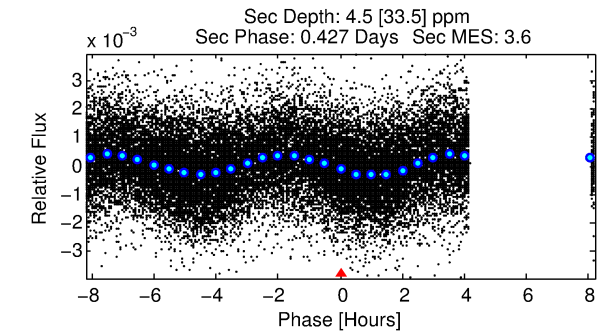
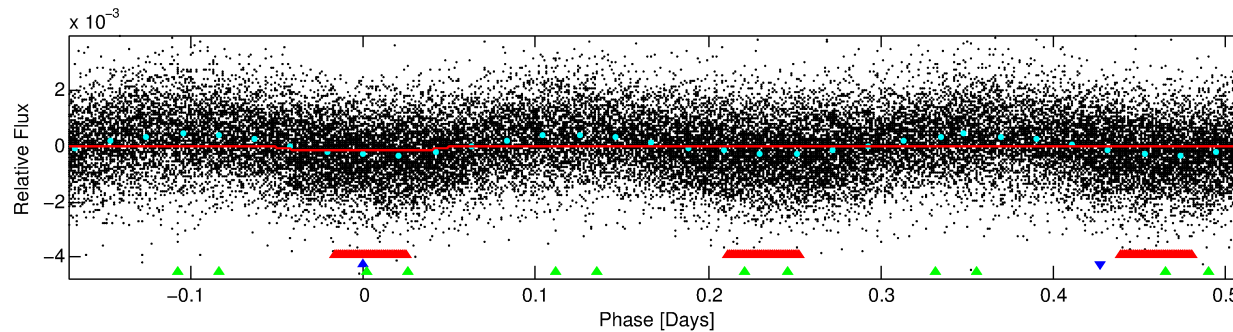
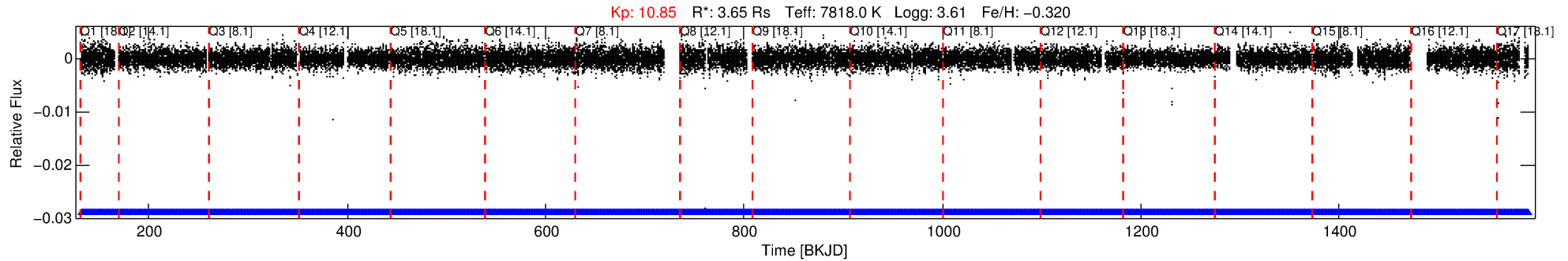
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008695156-02

No Significant Match Found

DV One-Page Summary

KIC: 8695156 Candidate: 2 of 3 Period: 0.683 d



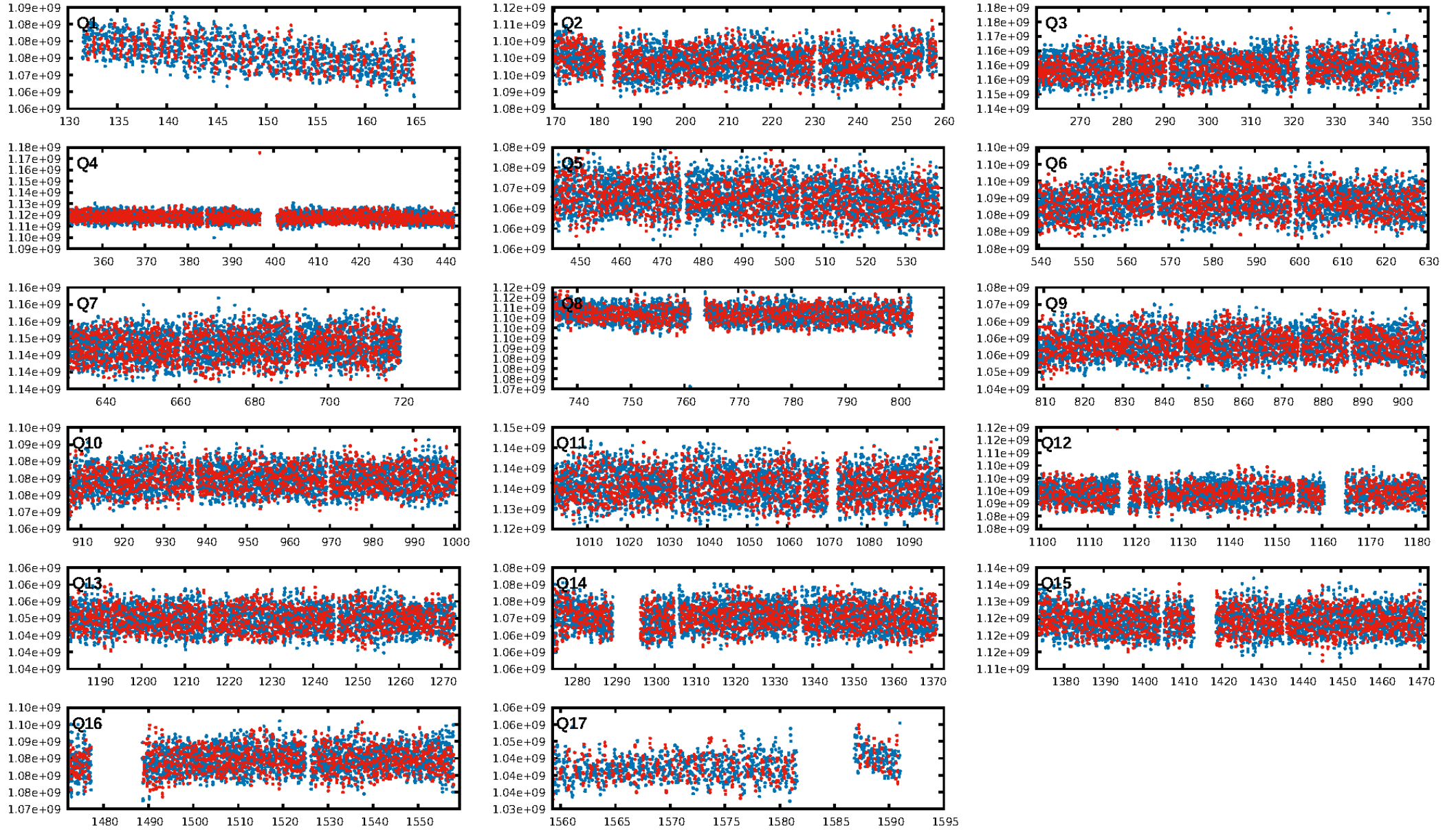
DV Fit Results:

Period = 0.68261 [0.00001] d
Epoch = 131.9664 [0.0016] BKJD
Rp/R* = 0.0139 [0.0031]
a/R* = 1.35 [0.75]
b = 0.90 [0.26]
Seff = 123378.96 [103316.78]
Teff = 4779 [1000] K
Rp = 5.54 [2.96] Re
a = 0.0190 [0.0095] AU
Ag = 0.03 [0.22] [-4.43σ]
Teffp = 3047 [5735] K [-0.30σ]

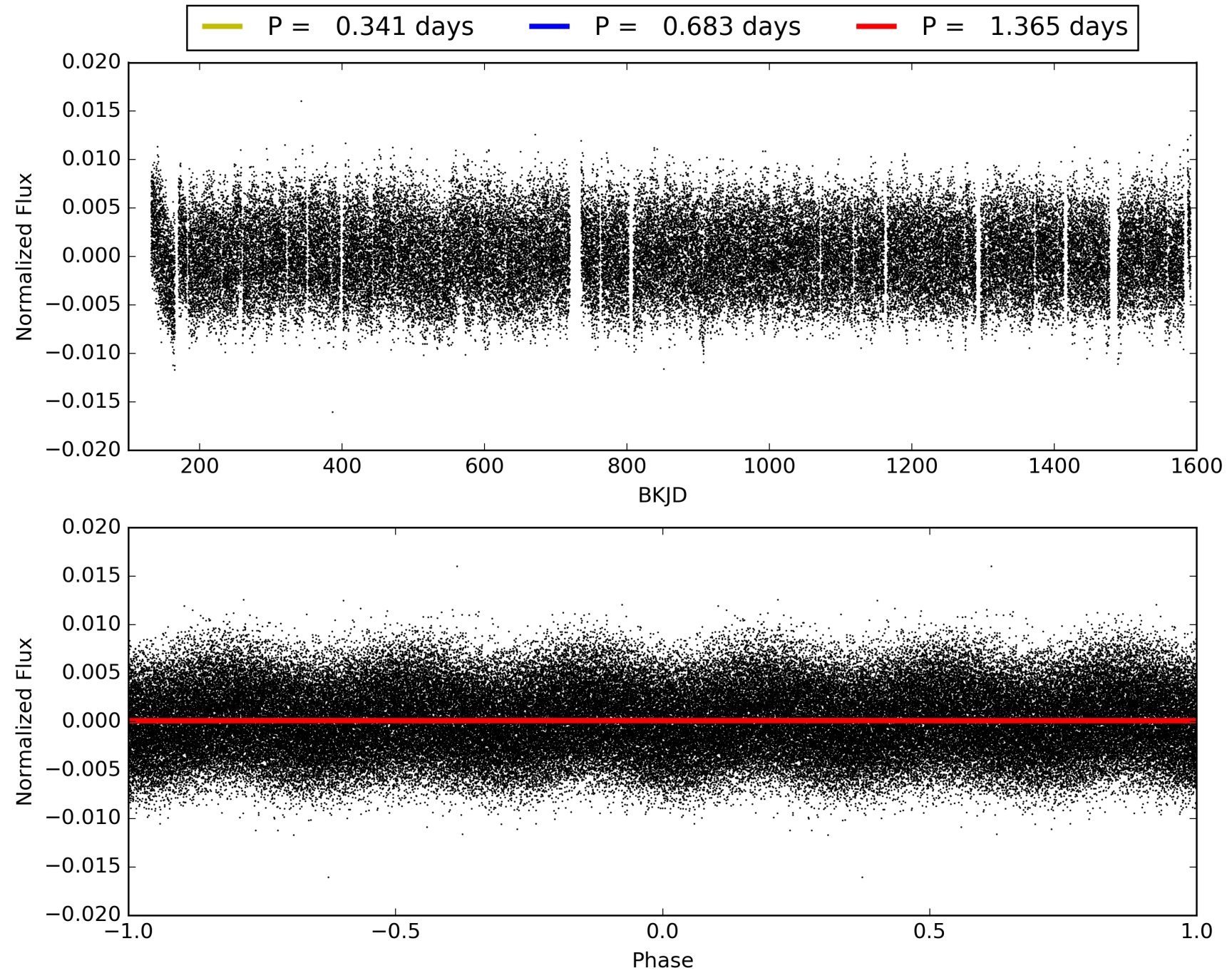
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 86.4% [1.49σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.83e-19
RollingBand-fgt: 1.00 [1411/1411]
GhostDiagnostic-chr: 2.502
Centroid-sig: 3.4%
Centroid-so: 0.242 arcsec [3.21σ]
OotOffset-rm: 1.501 arcsec [2.89σ]
KicOffset-rm: 1.445 arcsec [3.04σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.35 [6/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 008695156-02, PDC Light Curves

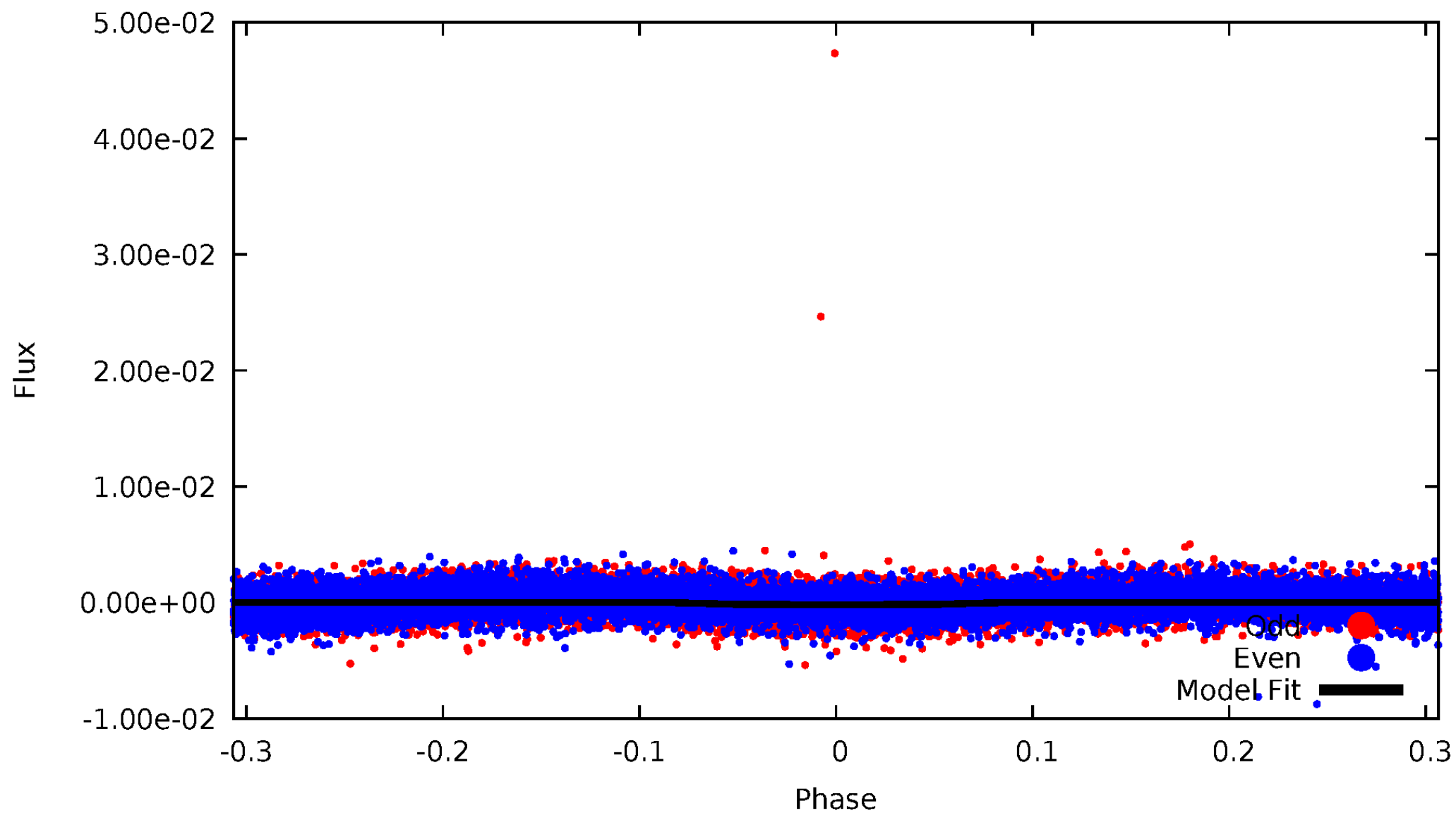


TCE 008695156-02



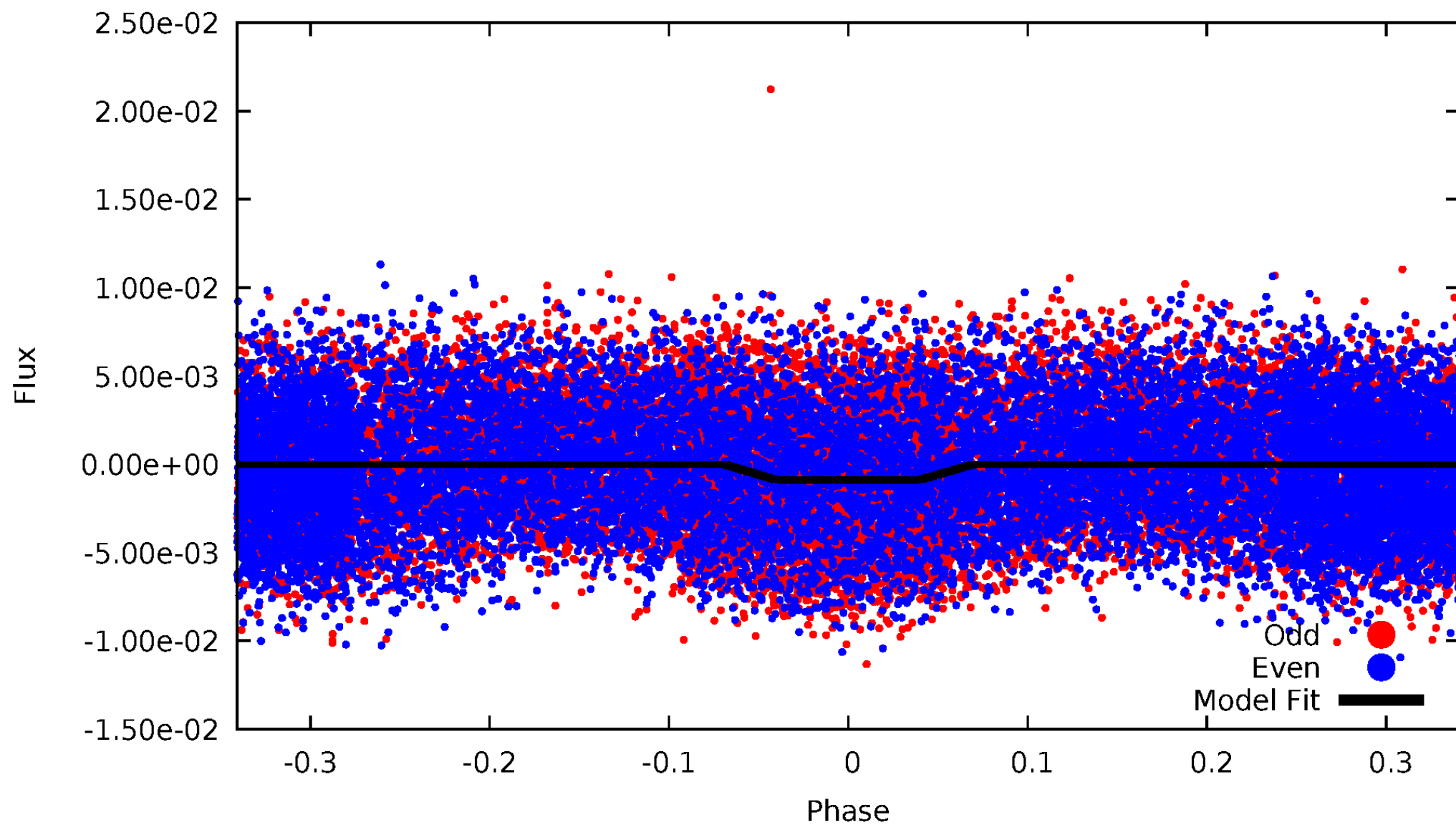
DV Odd/Even

TCE 008695156-02



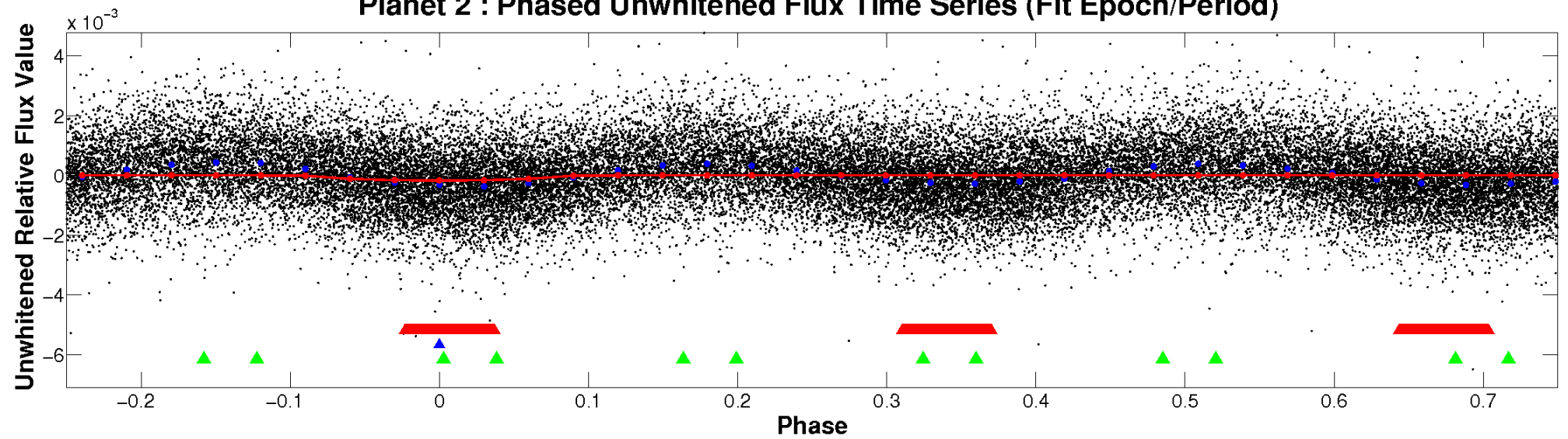
ALT Odd/Even

TCE 008695156-02

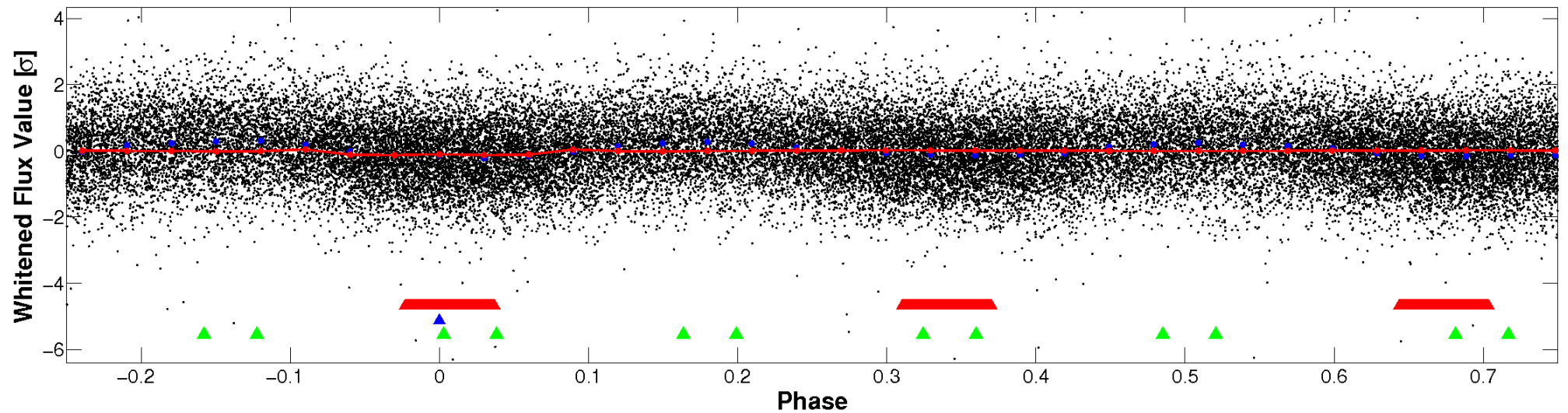


Non-Whitened Vs. Whitened Light Curve

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

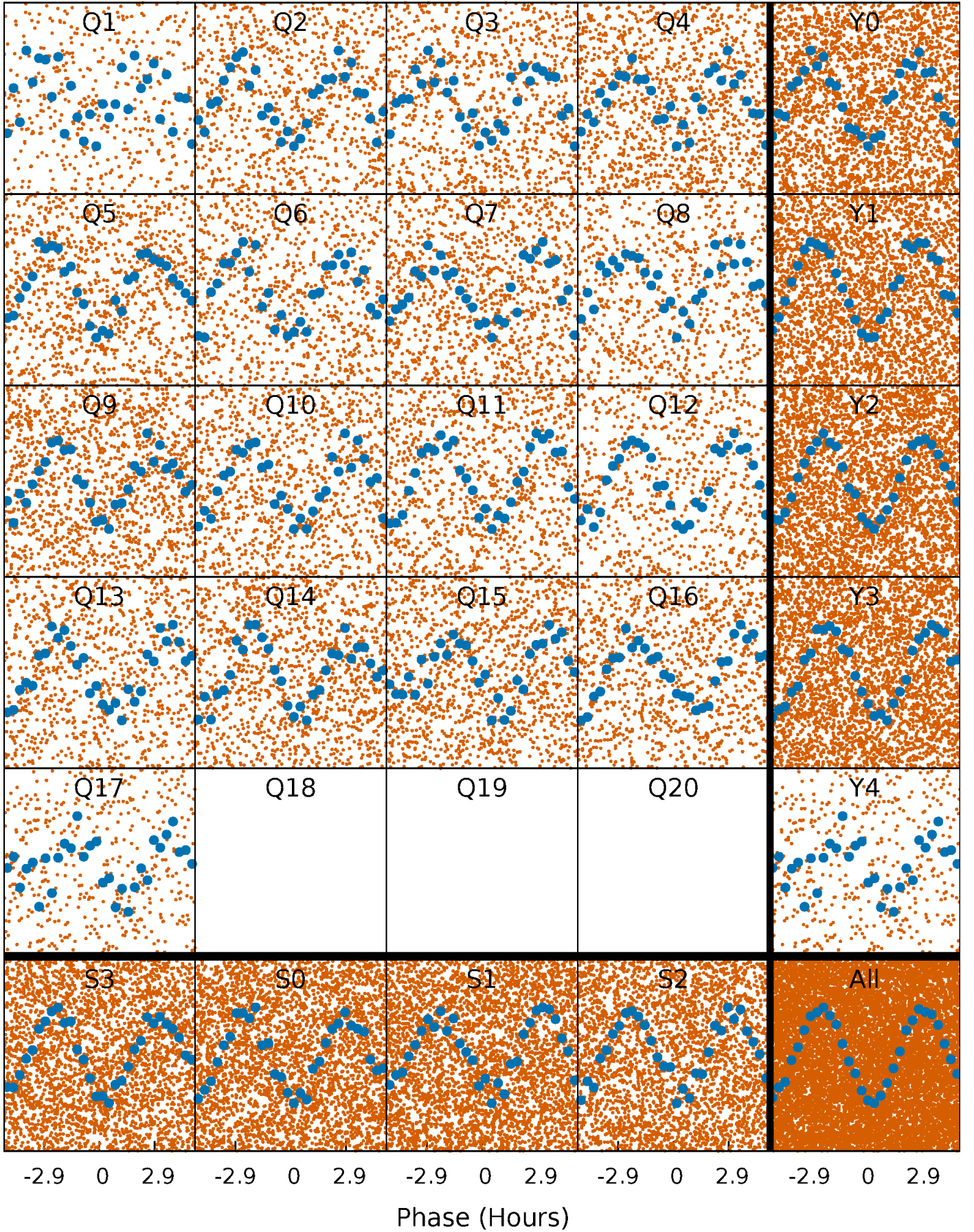


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



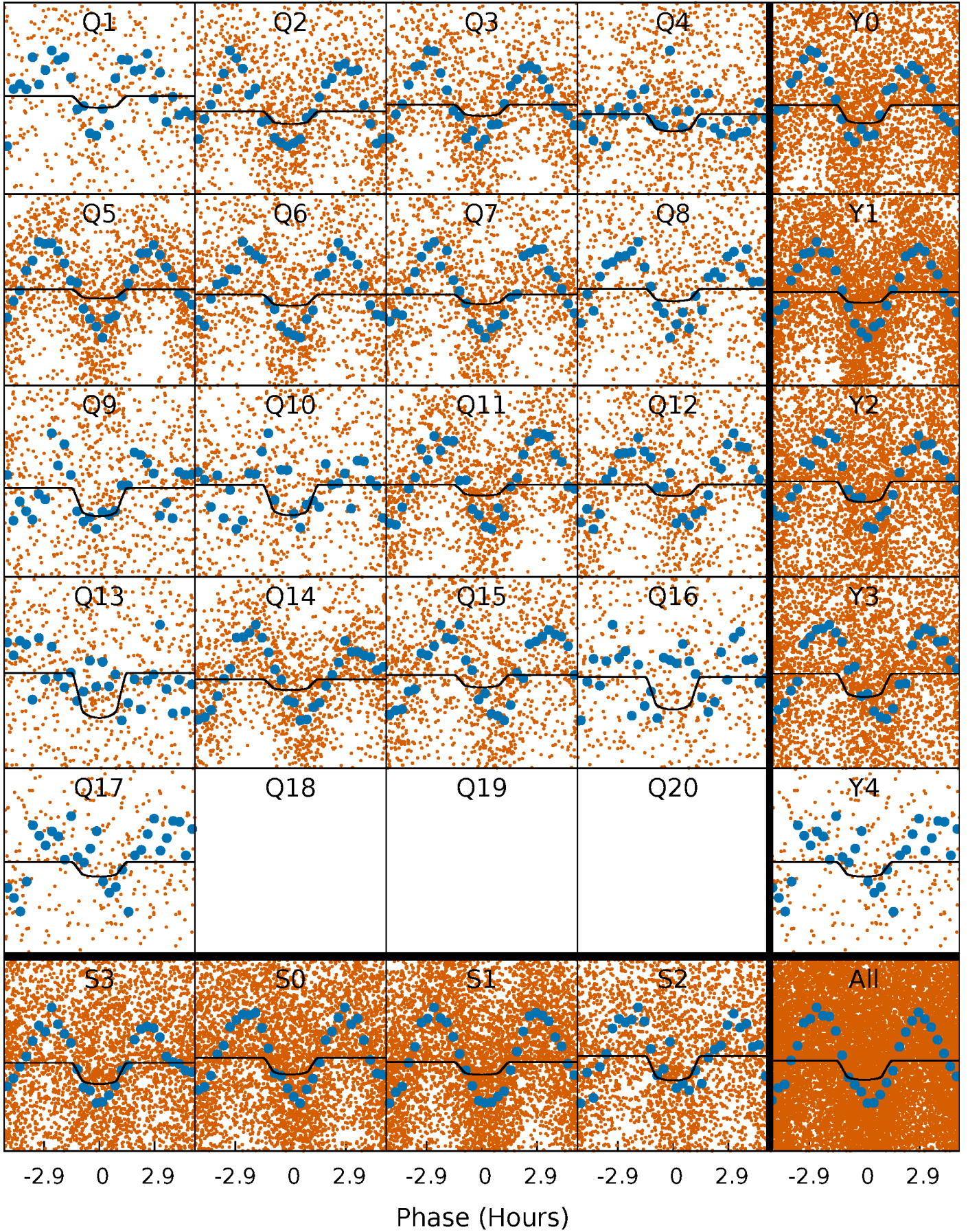
PDC Quarter-Phased Transit Curves

TCE 008695156-02 P= 0.682611 Days $T_0=131.966435$ (BKJD)



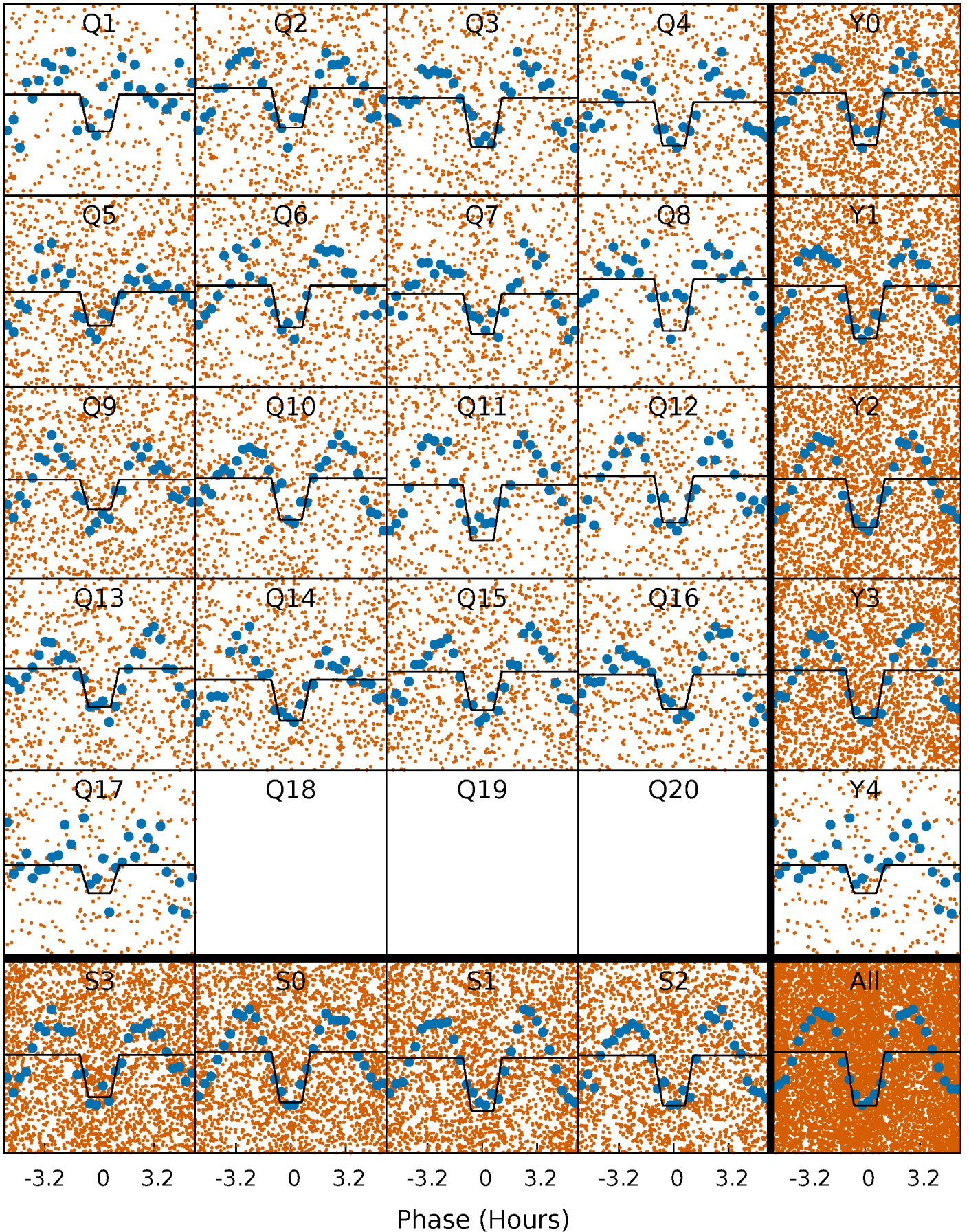
DV Quarter-Phased Transit Curves

TCE 008695156-02 P= 0.682611 Days $T_0=131.966435$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

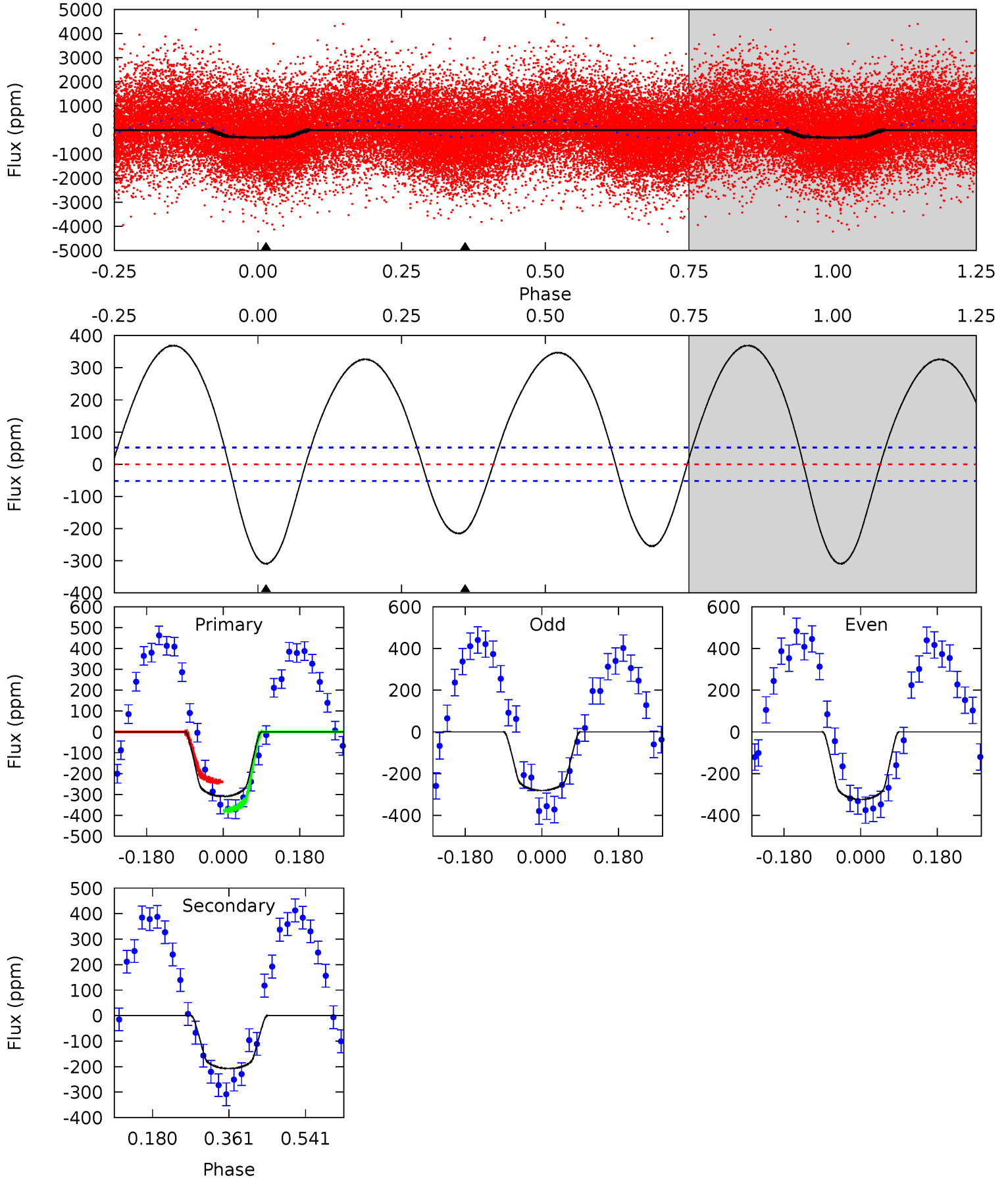
TCE 008695156-02 P= 0.682630 Days $T_0=131.963547$ (BKJD)



DV Model-Shift Uniqueness Test

008695156-02, P = 0.682611 Days, E = 131.283824 Days

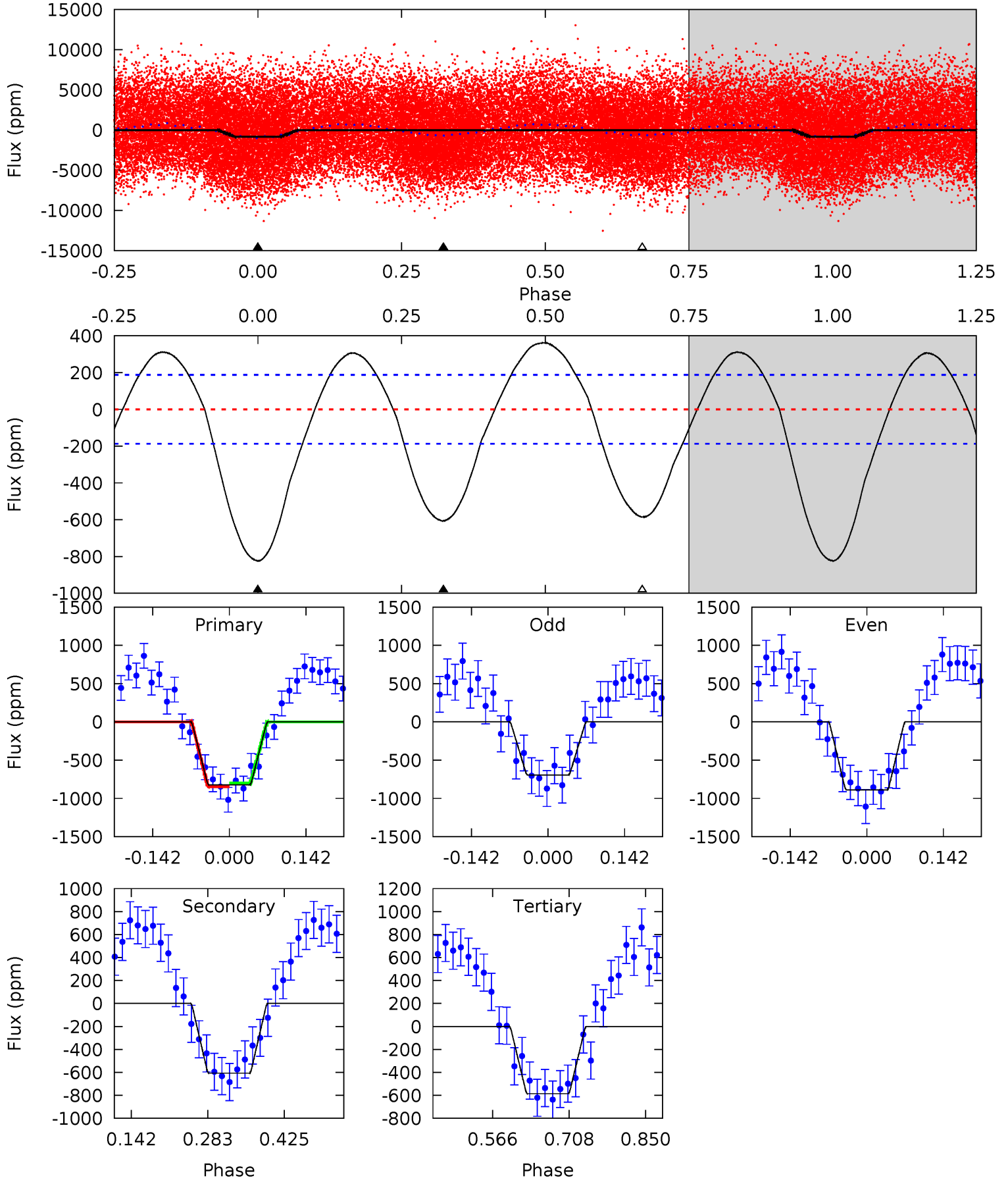
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.5	17.8	0	0	4.44	1.34	17.5	26.5	26.5	17.8	17.8	1.80	1.02	0.54	6.14



Alt Model-Shift Uniqueness Test

008695156-02, P = 0.682630 Days, E = 131.280917 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.8	14.6	14.0	0	4.49	1.47	8.25	5.72	19.8	0.51	14.6	2.21	0.95	0.31	0.58



Stellar Parameters For KIC 008695156

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7818^{+247}_{-302}	$3.607^{+0.493}_{-0.087}$	$-0.320^{+0.250}_{-0.300}$	$3.650^{+0.632}_{-1.771}$	$1.965^{+0.156}_{-0.469}$	$0.057^{+0.316}_{-0.016}$
	+3%/-4%	+14%/-2%	+78%/-94%	+17%/-49%	+8%/-24%	+555%/-29%
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 008695156-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-208 ± 12	$4.83^{+1.67}_{-1.48}$	6449^{+482}_{-870}	7455^{+1638}_{-995}	$1.727^{+1.762}_{-0.760}$
Alt.	-607 ± 42	$10.87^{+2.18}_{-2.75}$	6437^{+494}_{-809}	6356^{+642}_{-551}	$0.994^{+0.769}_{-0.285}$

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

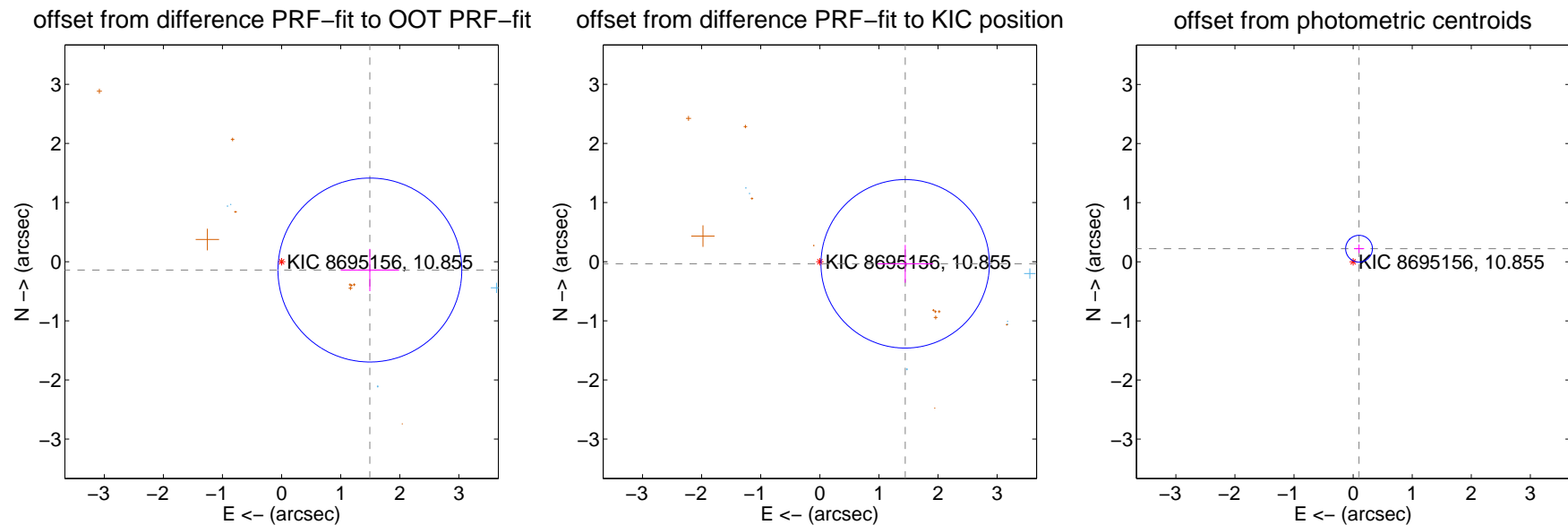
DV Centroid Data

Supplemental centroid analysis for 008695156-02. **Kepler magnitude: 10.86**. Transit SNR 10.44

There are 6 quarters with good PRF difference image offsets

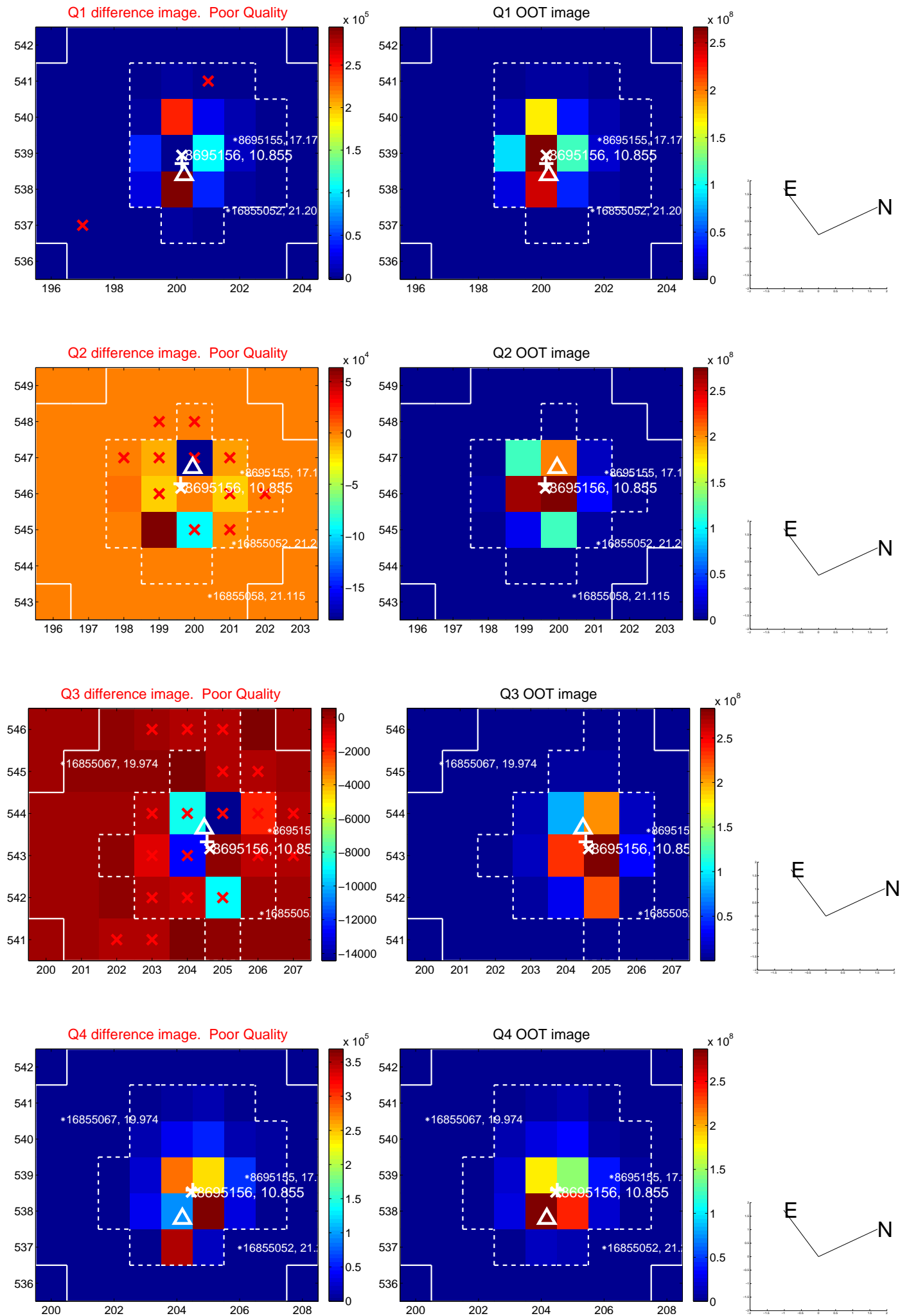
The direct PRF centroid is offset from the target star catalog position by about 0.85 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.501 ± 0.519	2.89	-1.494 ± 0.493	-0.141 ± 0.357
PRF-fit source offset from KIC position	1.445 ± 0.475	3.04	-1.444 ± 0.469	-0.036 ± 0.320
photometric centroid source offset	0.24 ± 0.08	3.21	-0.10 ± 0.09	0.22 ± 0.07

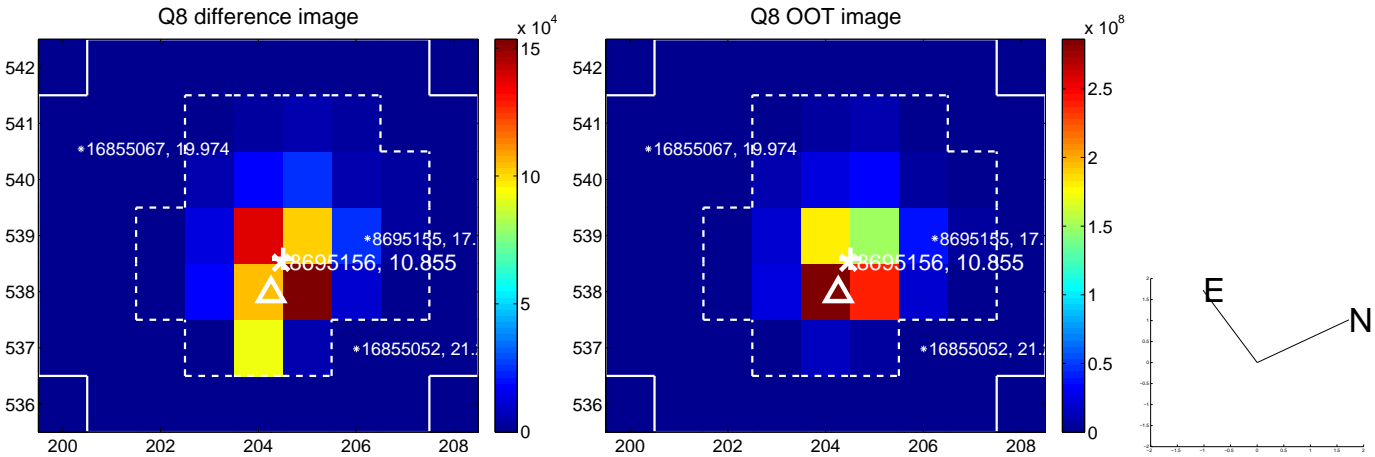
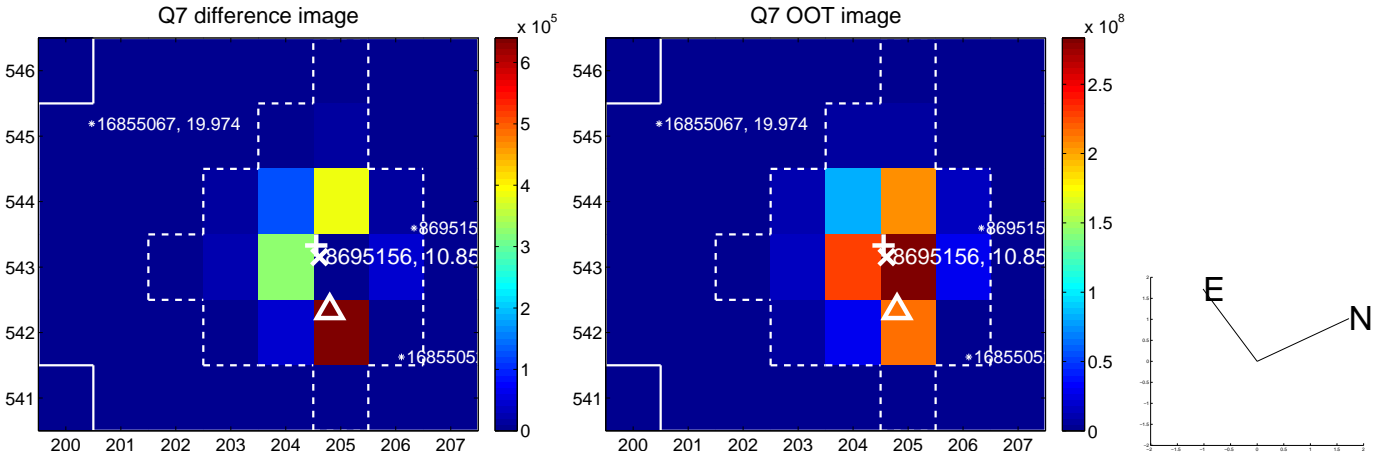
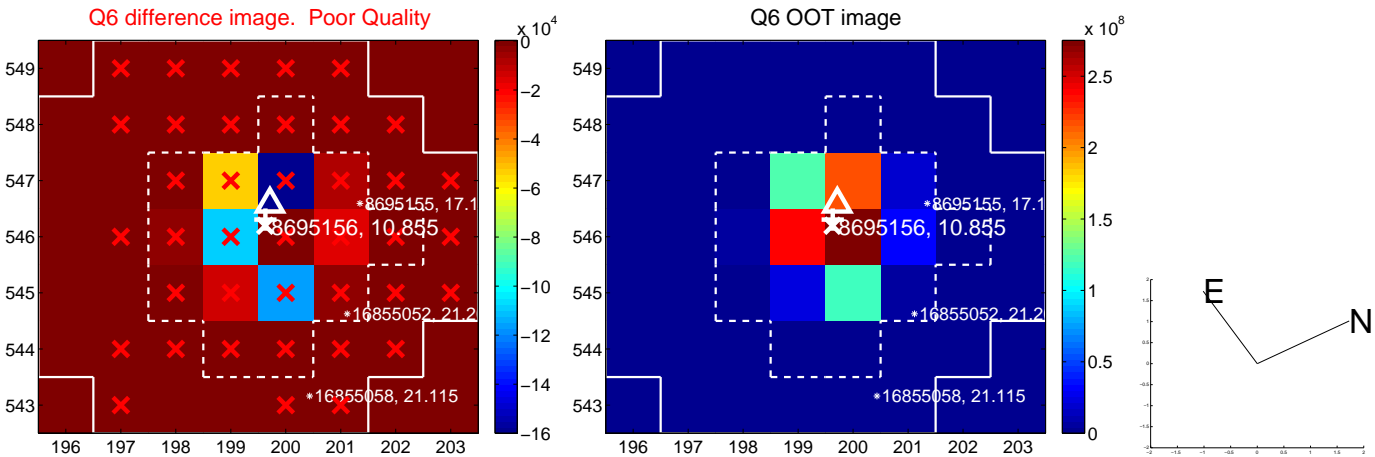
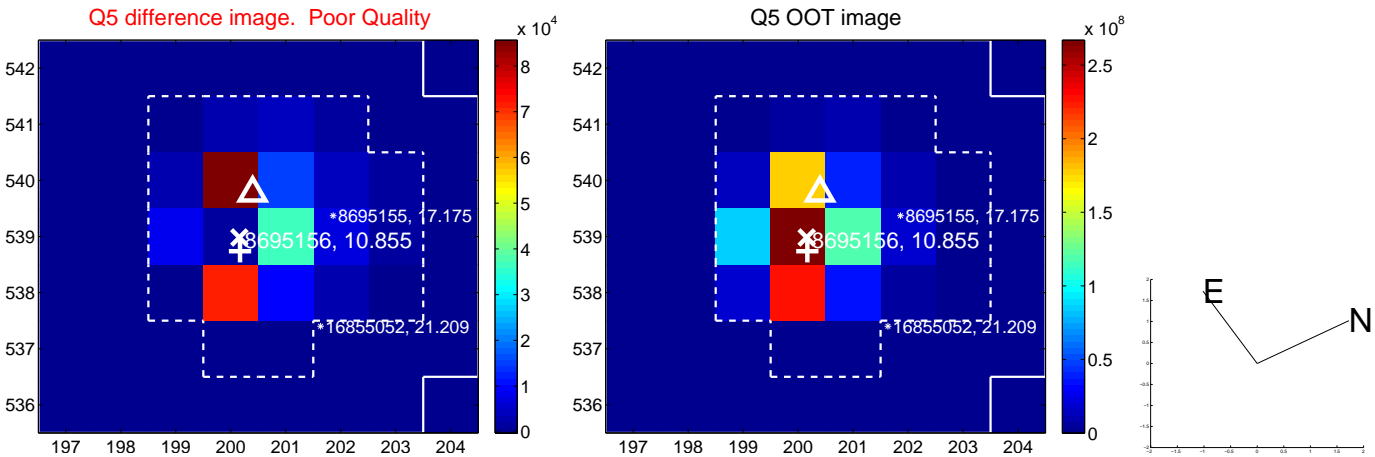


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

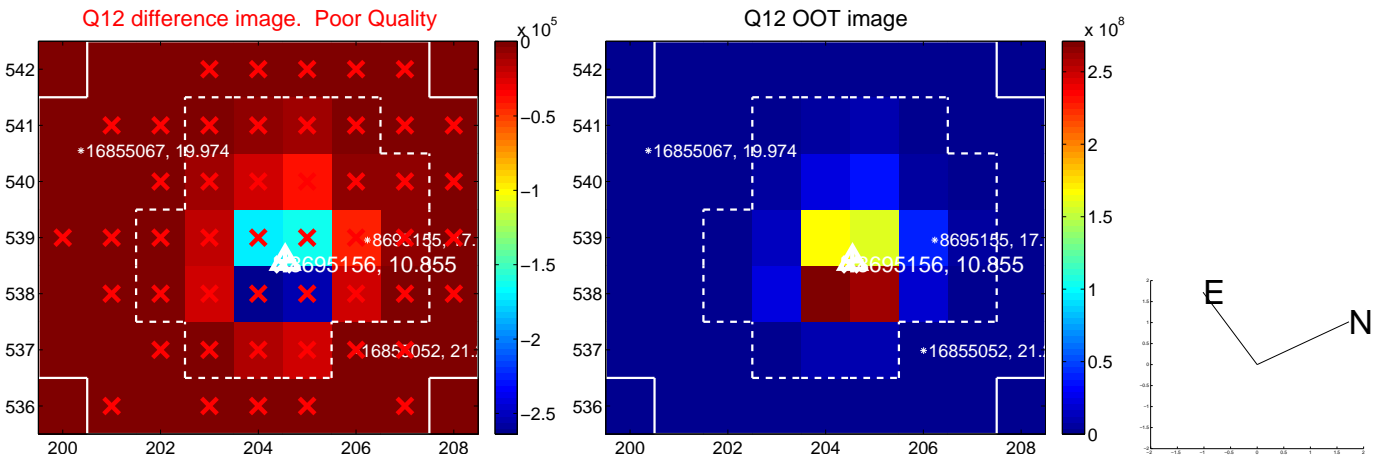
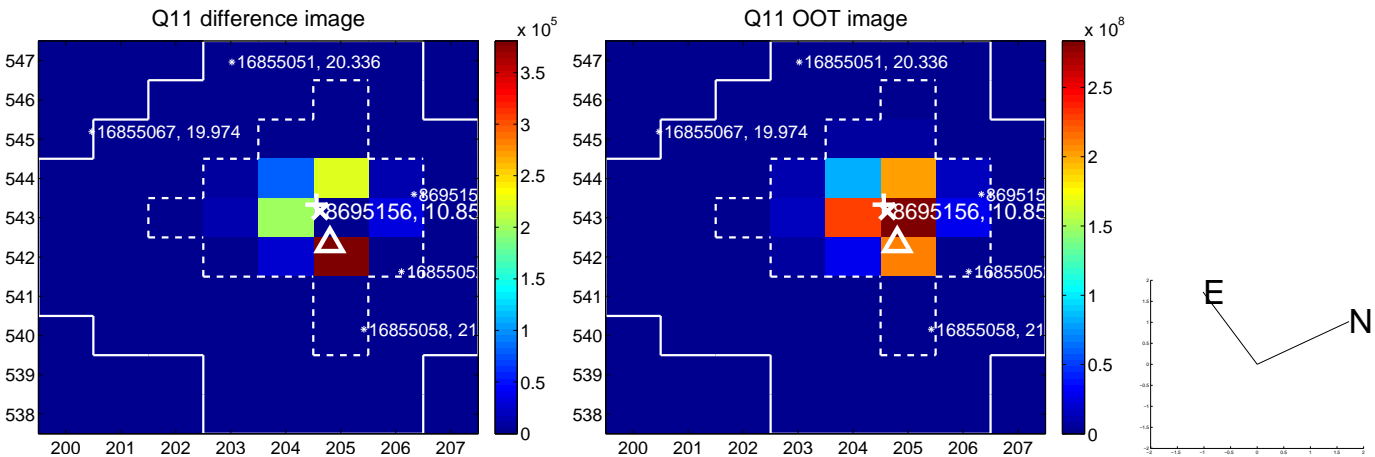
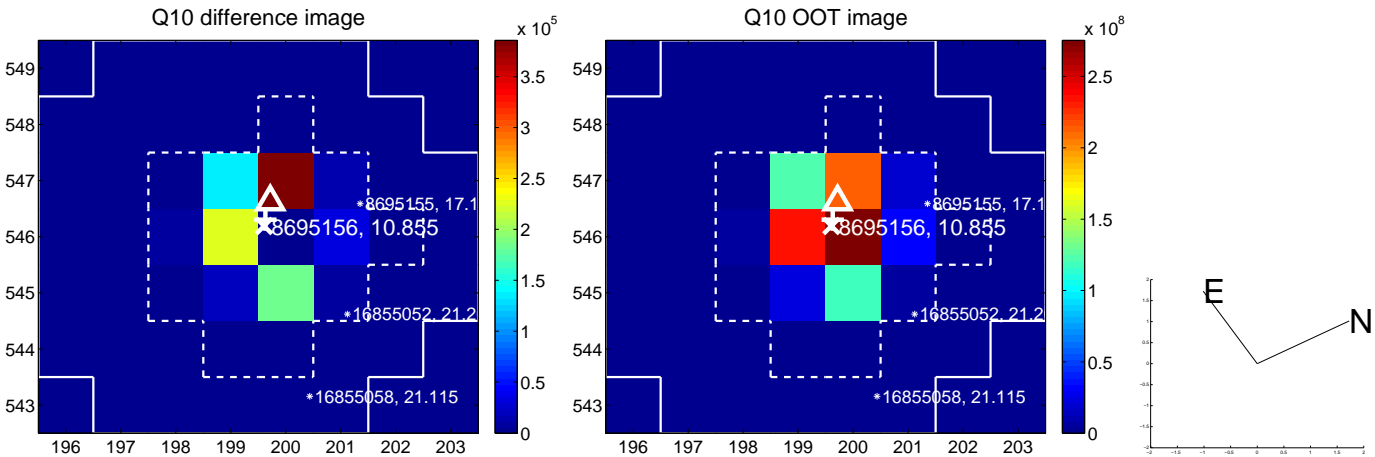
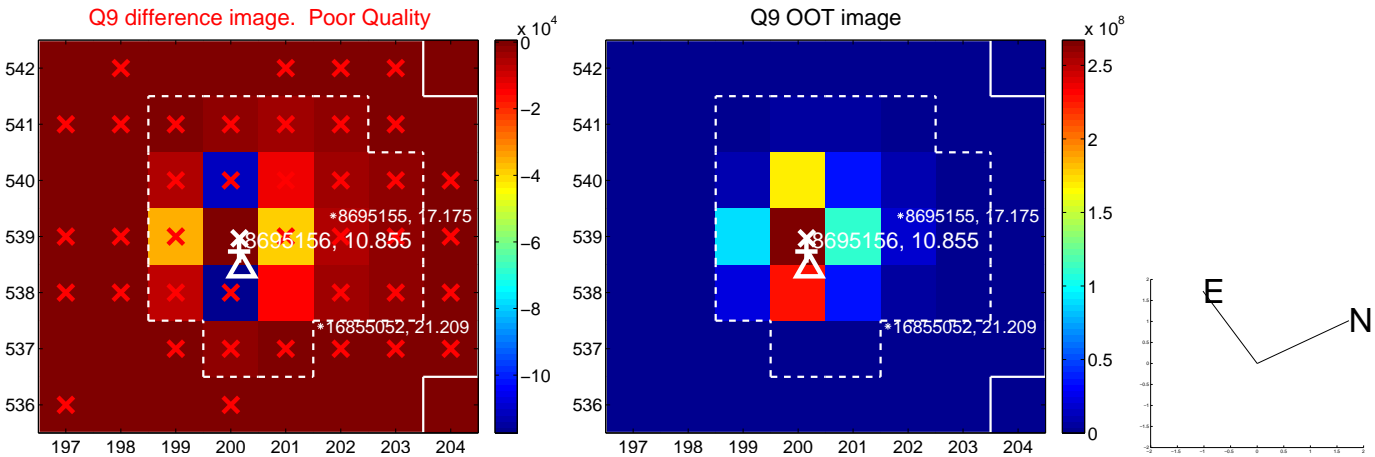
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



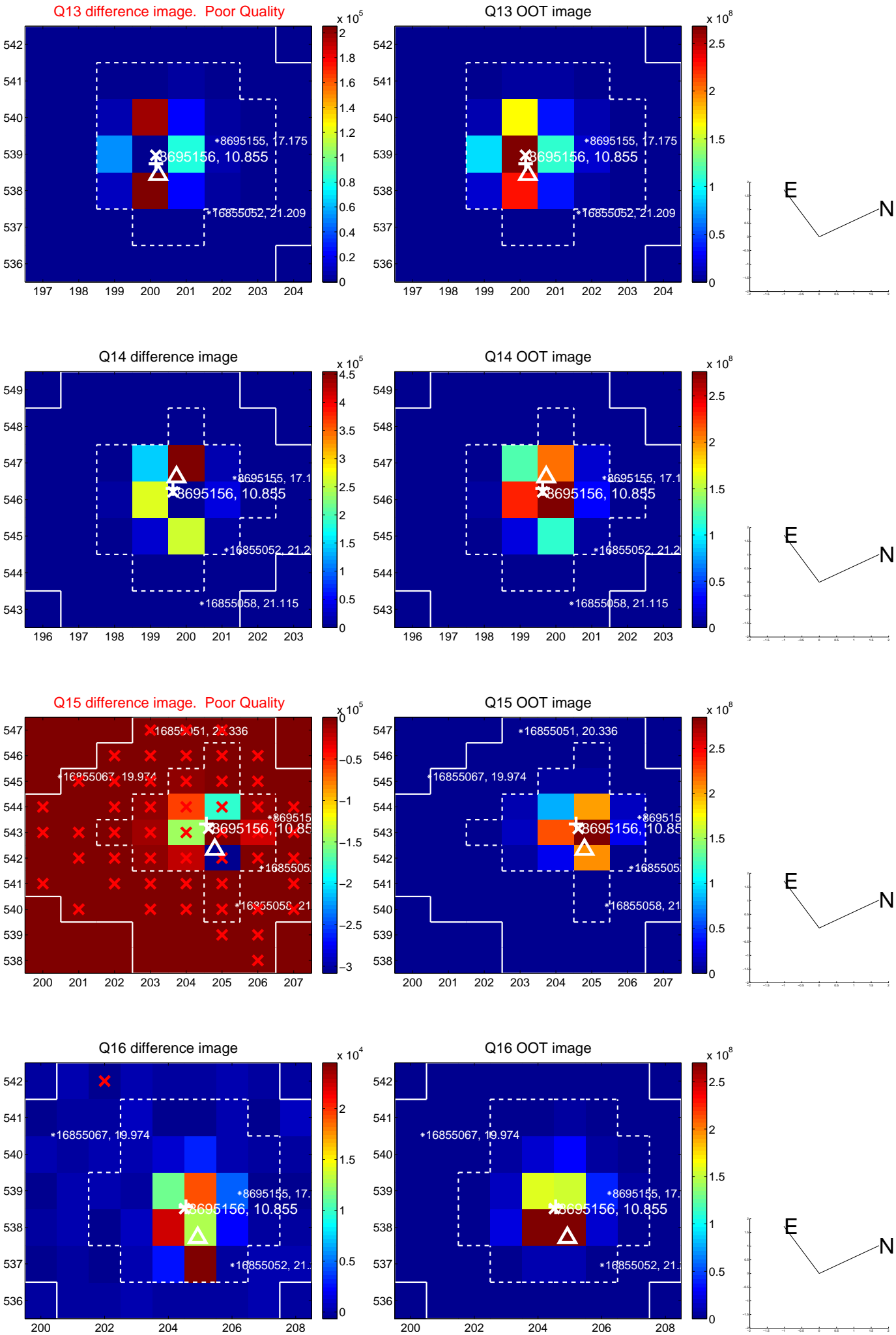
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



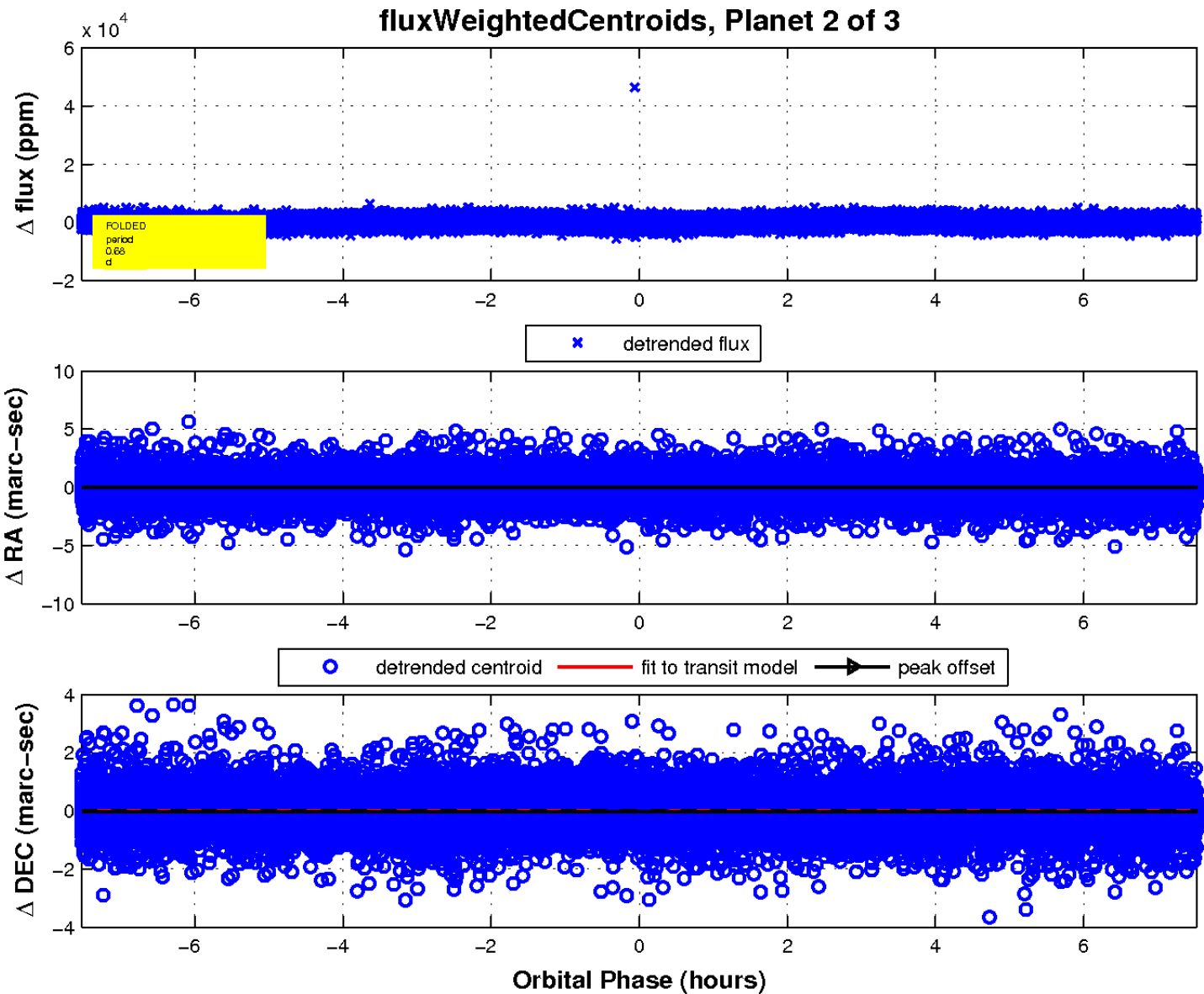
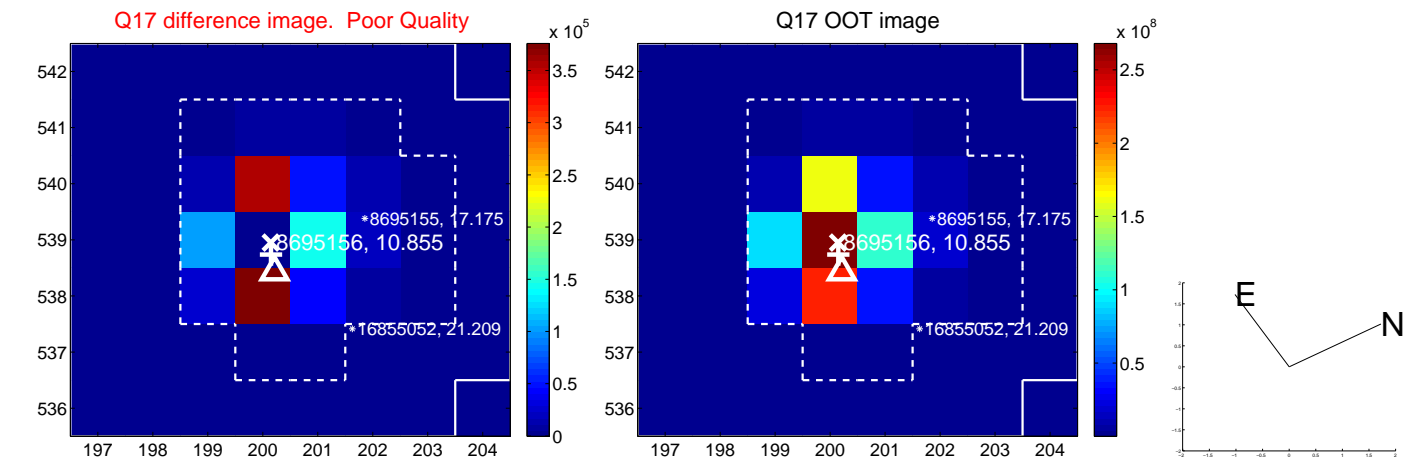
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



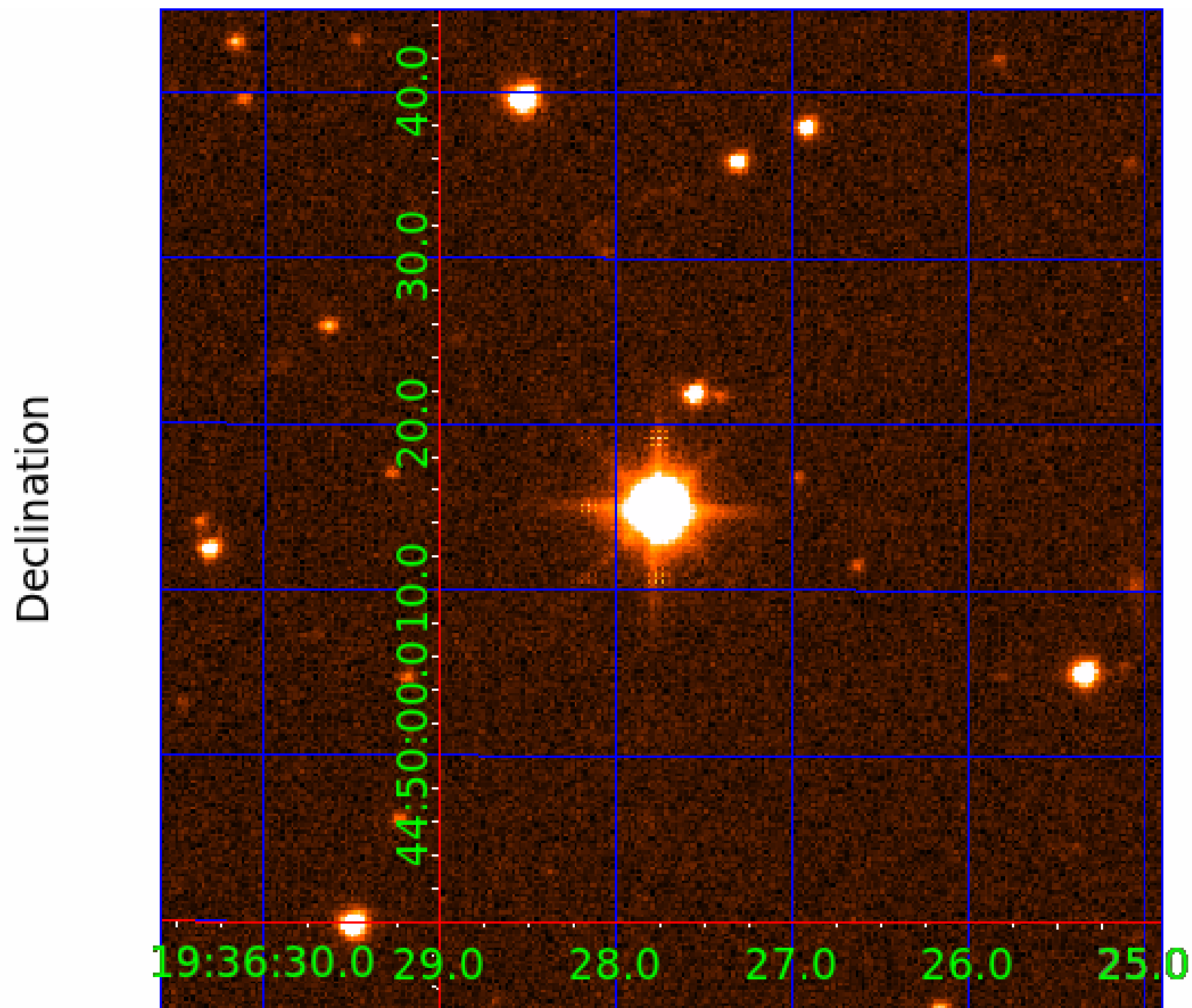
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 008695156

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})
008695156-01	OBS	No	0.910174	131.723042	124.7	2.670	8.4	8.1	3.65	7818	4.77	84069.75
008695156-02	OBS	No	0.682611	131.966435	167.9	2.509	9.8	10.4	3.65	7818	5.54	123378.96
008695156-03	OBS	No	121.395053	138.441096	661.9	14.741	7.6	5.1	3.65	7818	9.71	123.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008695156-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008695156-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008695156-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

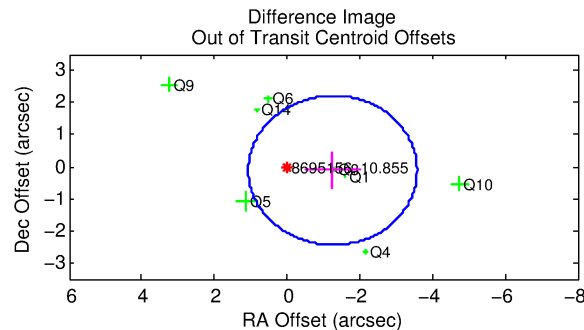
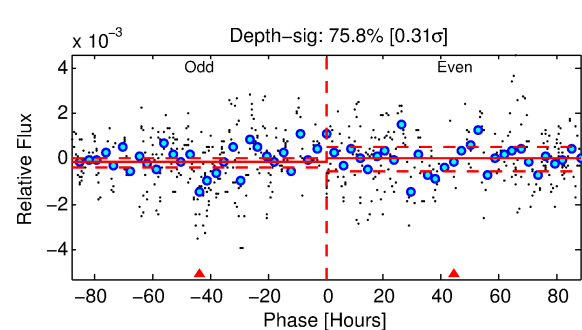
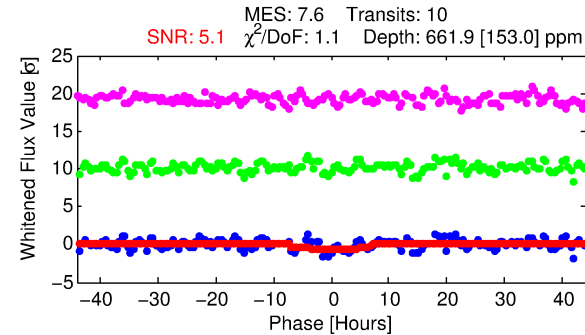
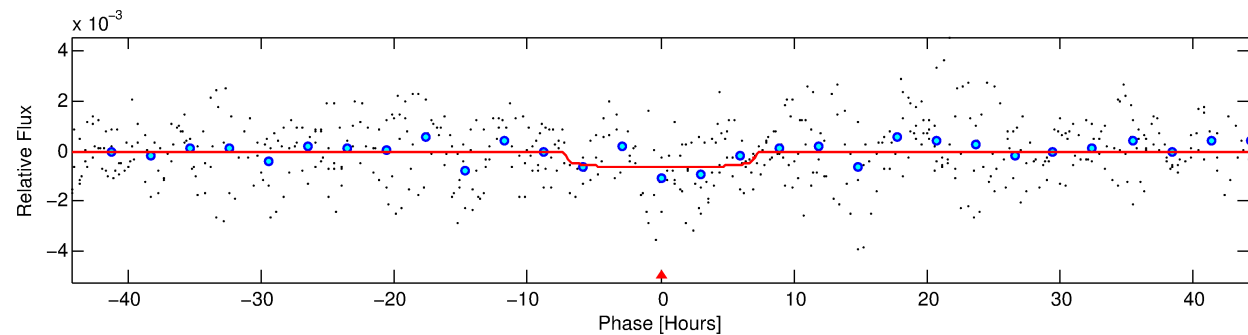
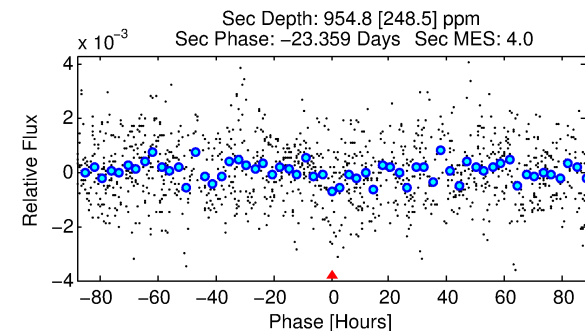
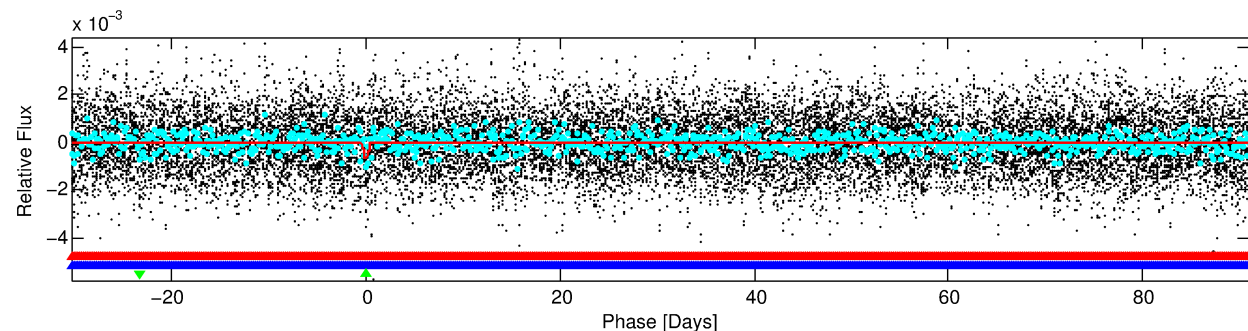
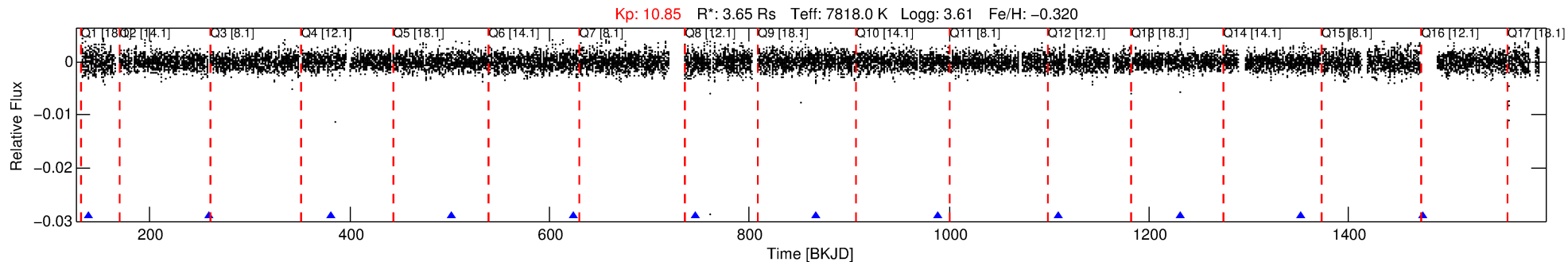
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008695156-03

No Significant Match Found

DV One-Page Summary

KIC: 8695156 Candidate: 3 of 3 Period: 121.395 d



DV Fit Results:

Period = 121.39505 [0.00638] d
Epoch = 138.4411 [0.0489] BKJD
Rp/R* = 0.0244 [0.0159]
a/R* = 55.69 [188.16]
b = 0.52 [4.84]
Seff = 123.37 [103.31]
Teff = 850 [178] K
Rp = 9.71 [7.88] Re
a = 0.6012 [0.2993] AU
Ag = 2012.35 [3142.33] [0.64σ]
Teffp = 8800 [2939] K [2.70σ]

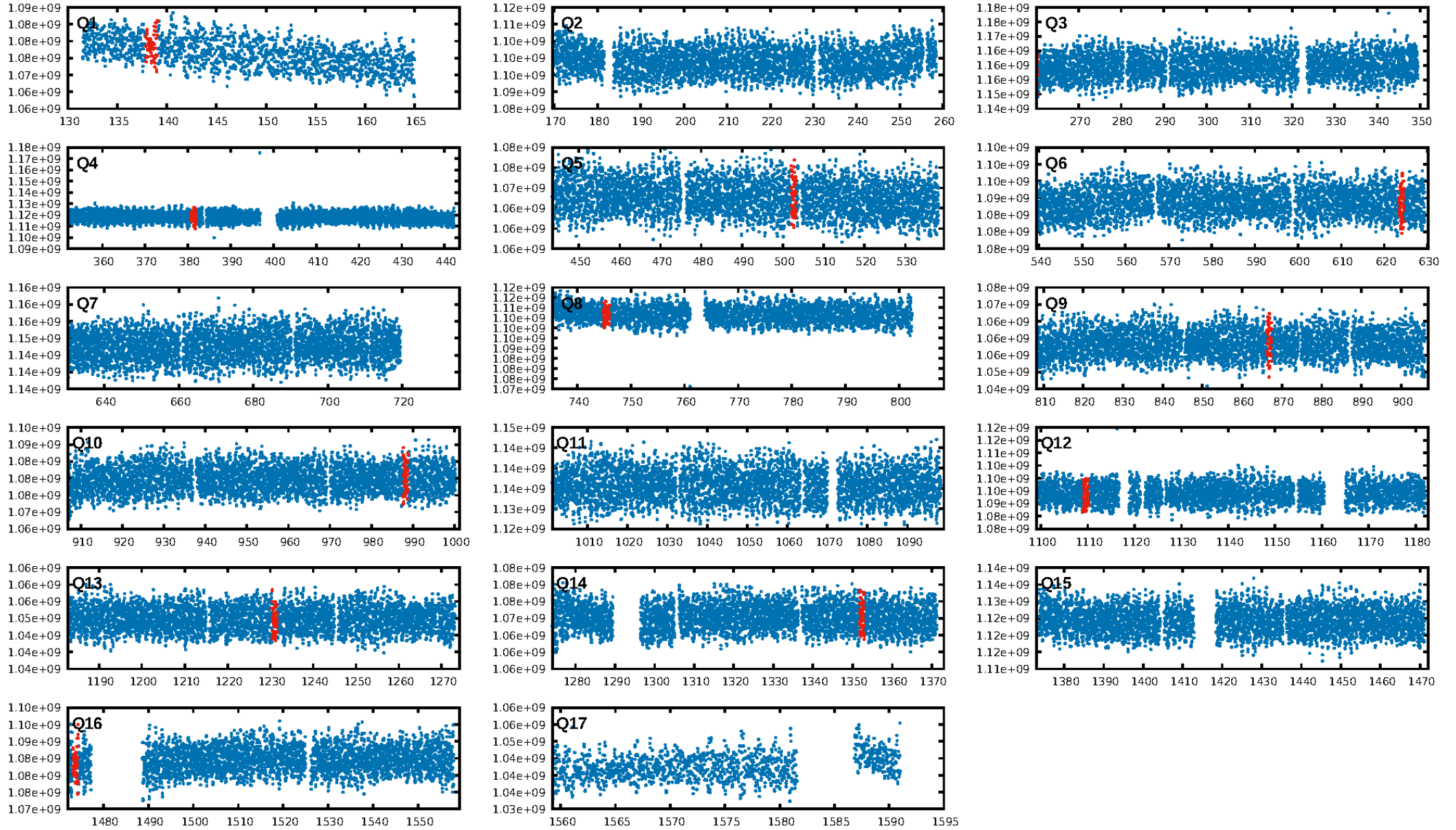
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [193.02σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.08e-09
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: -3.204
Centroid-sig: 5.6%
Centroid-so: 0.304 arcsec [1.95σ]
OotOffset-rm: 1.257 arcsec [1.62σ]
KicOffset-rm: 1.902 arcsec [2.52σ]
OotOffset-st: 3/0/2/3 [8]
KicOffset-st: 3/0/2/3 [8]
DiffImageQuality-fgm: 0.38 [3/8]
DiffImageOverlap-fno: 0.00 [0/8]

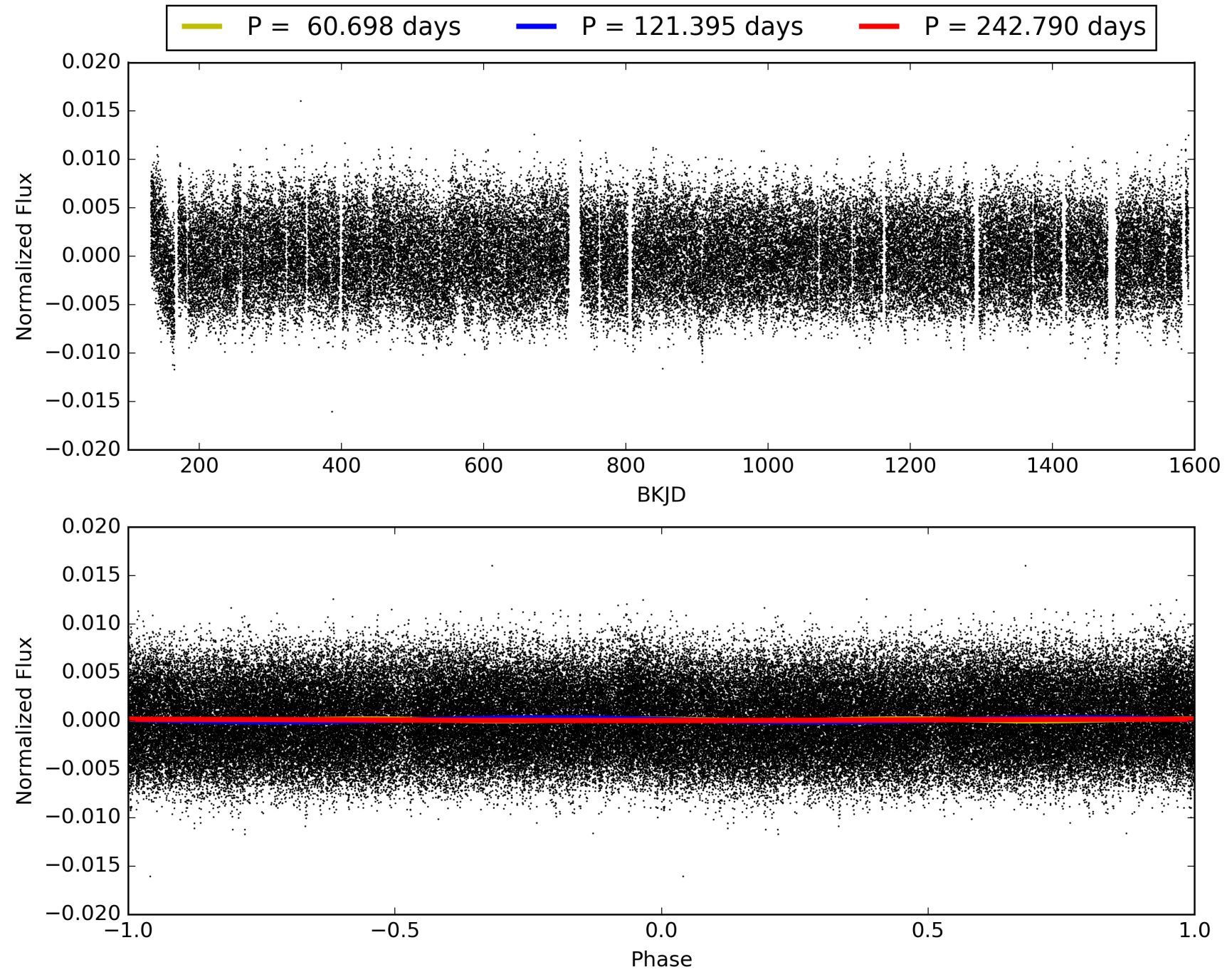
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:50:45 Z

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

TCE 008695156-03, PDC Light Curves

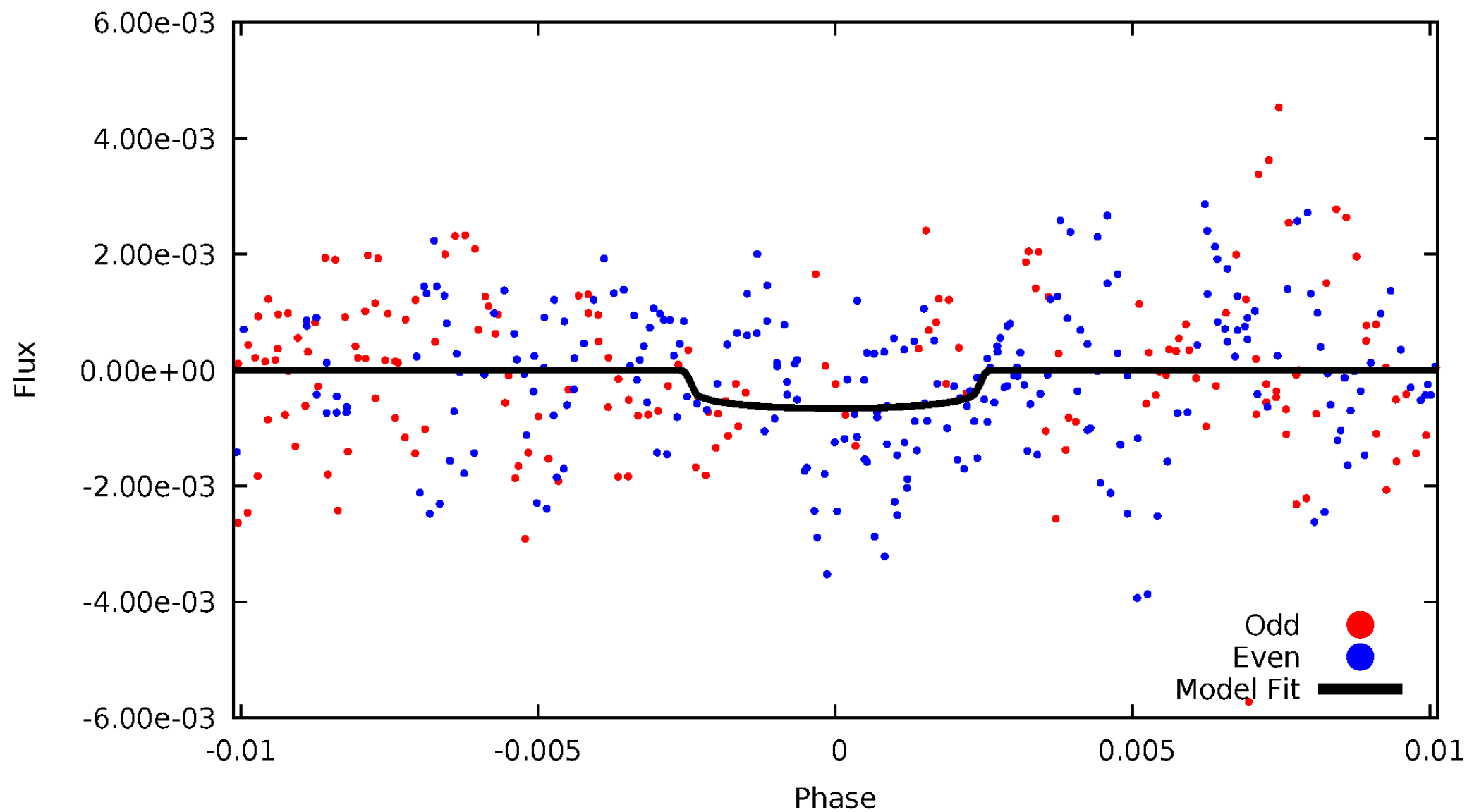


TCE 008695156-03



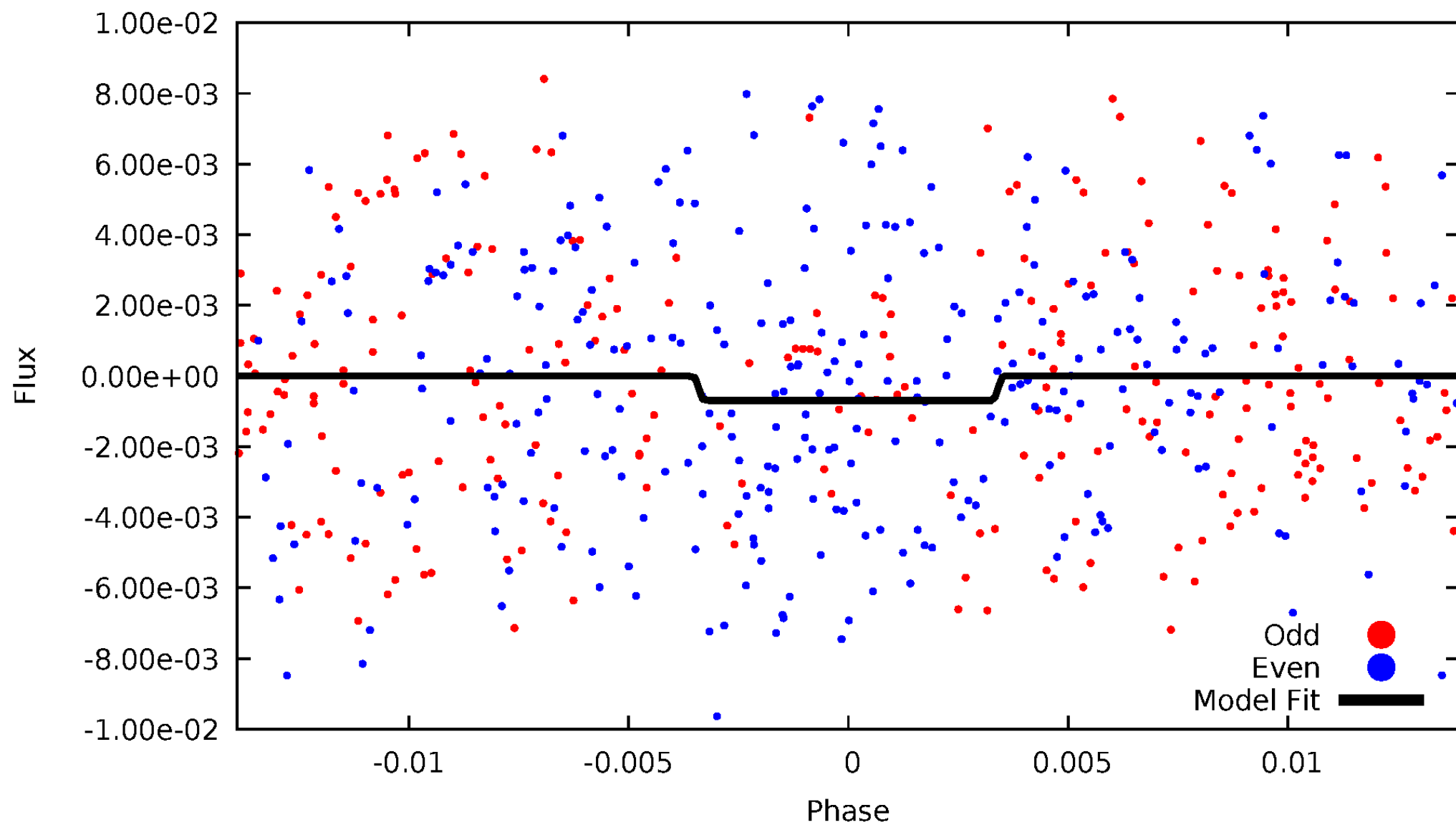
DV Odd/Even

TCE 008695156-03



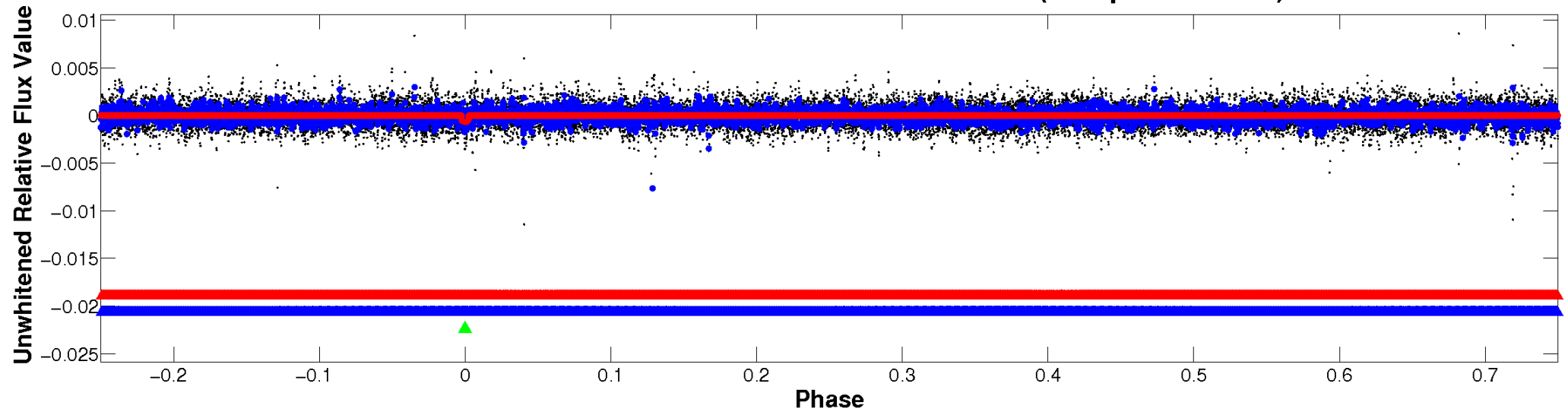
ALT Odd/Even

TCE 008695156-03

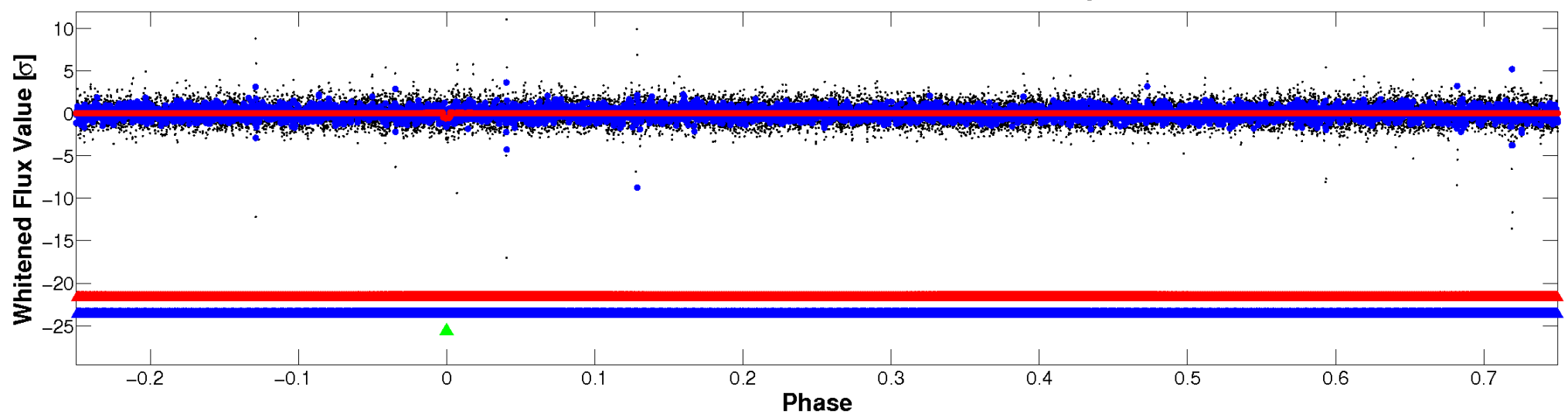


Non-Whitened Vs. Whitened Light Curve

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

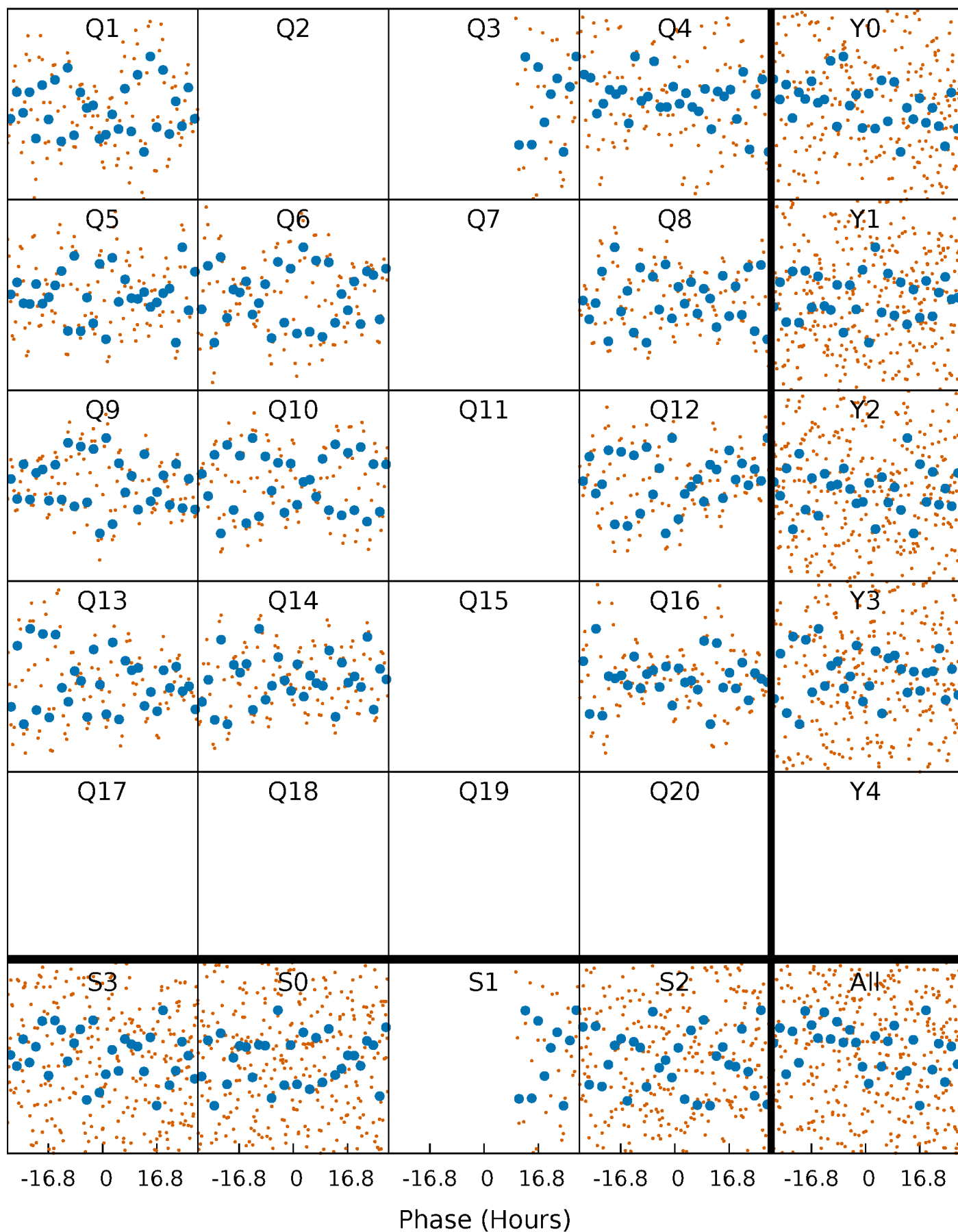


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



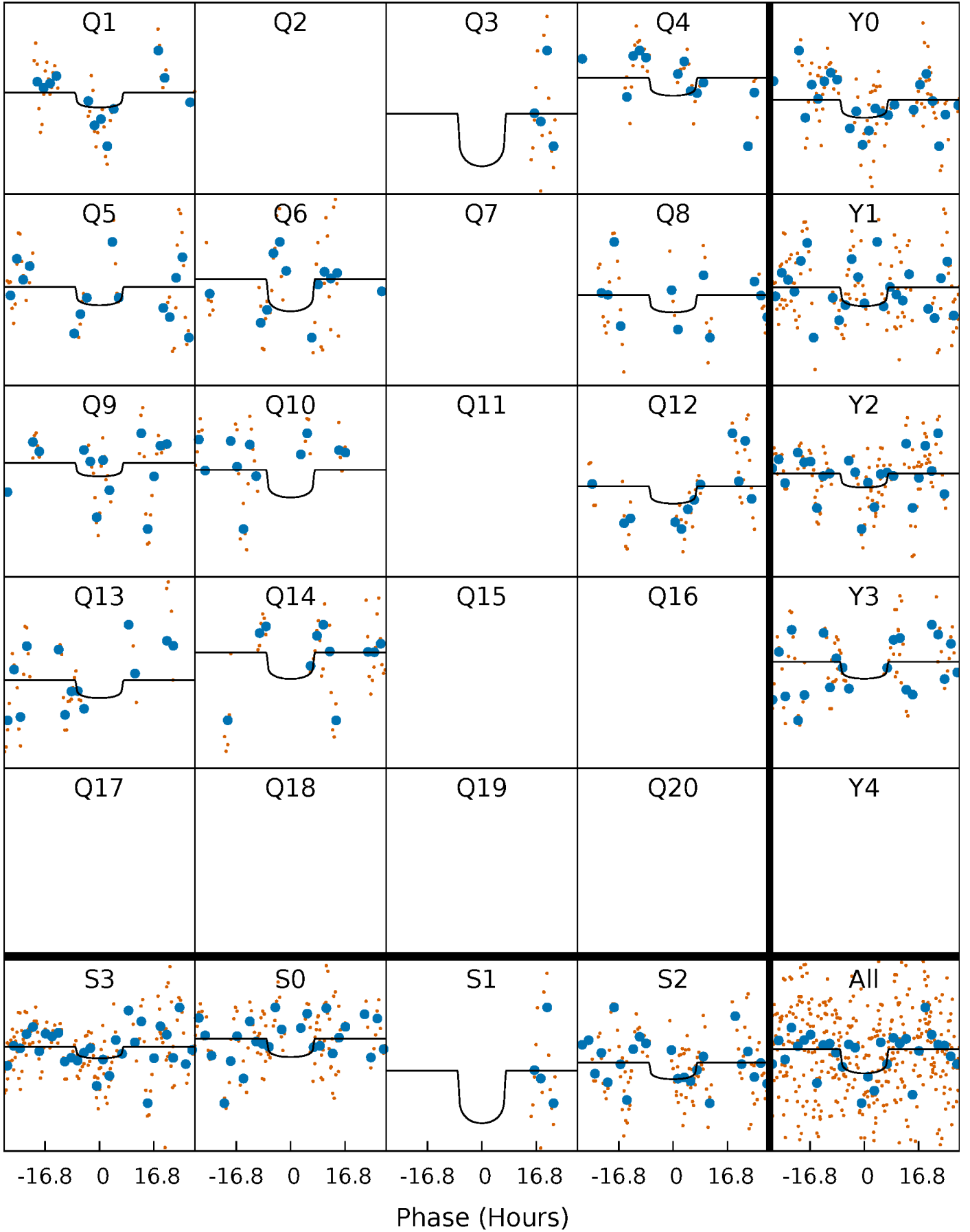
PDC Quarter-Phased Transit Curves

TCE 008695156-03 P=121.395053 Days $T_0=138.441096$ (BKJD)



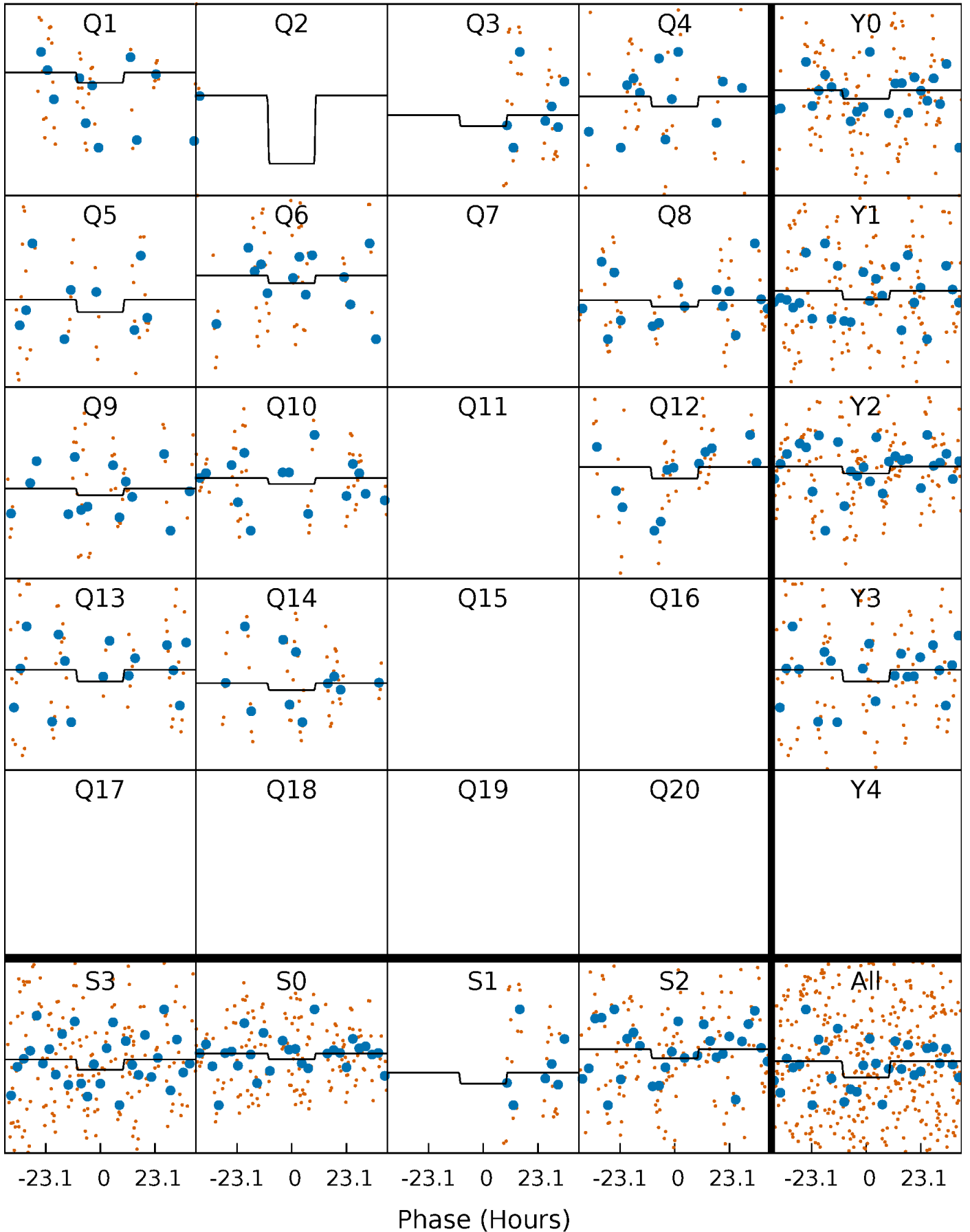
DV Quarter-Phased Transit Curves

TCE 008695156-03 P=121.395053 Days $T_0=138.441096$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

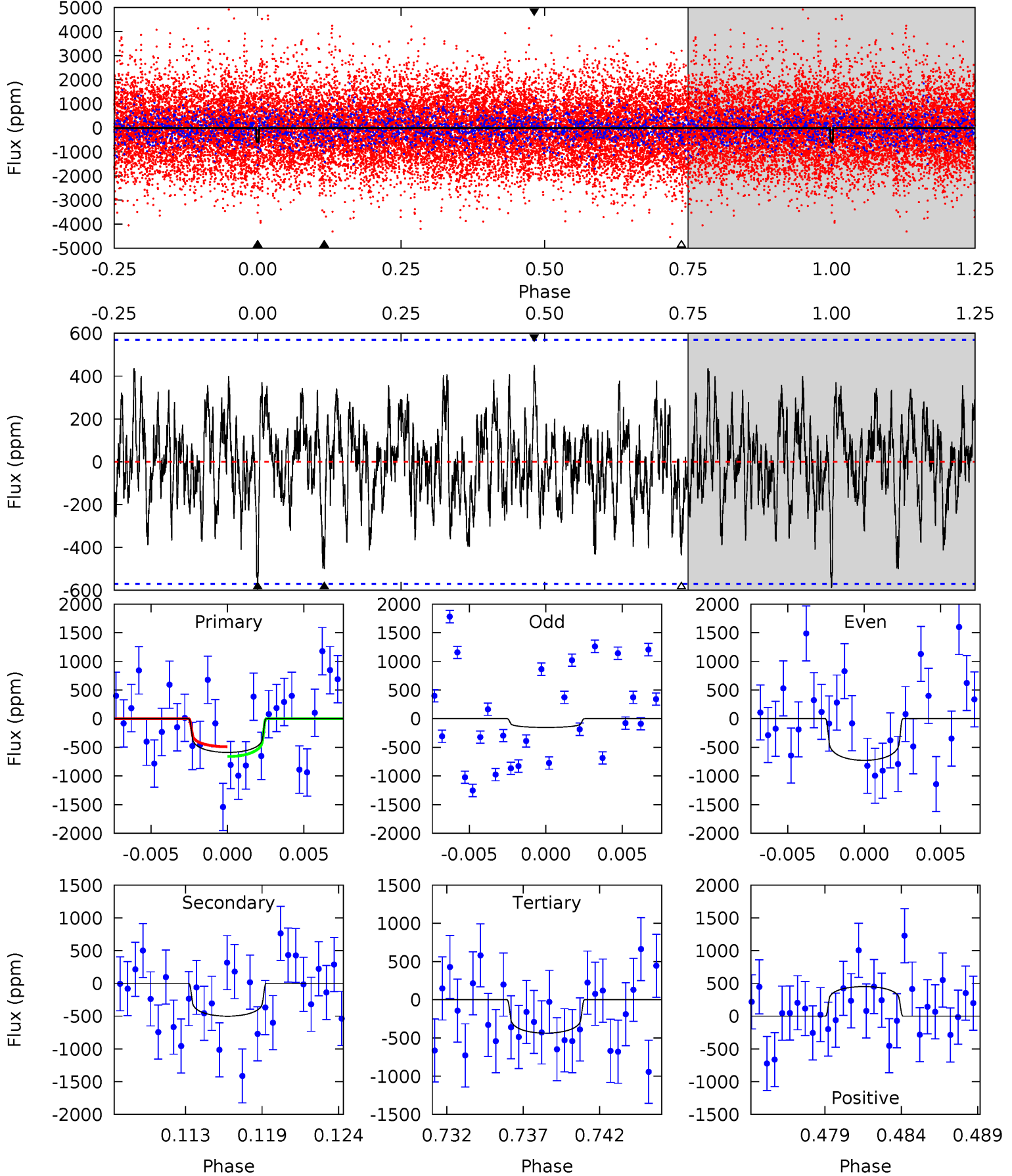
TCE 008695156-03 P=121.406117 Days $T_0=138.700223$ (BKJD)



DV Model-Shift Uniqueness Test

008695156-03, P = 121.395053 Days, E = 17.046043 Days

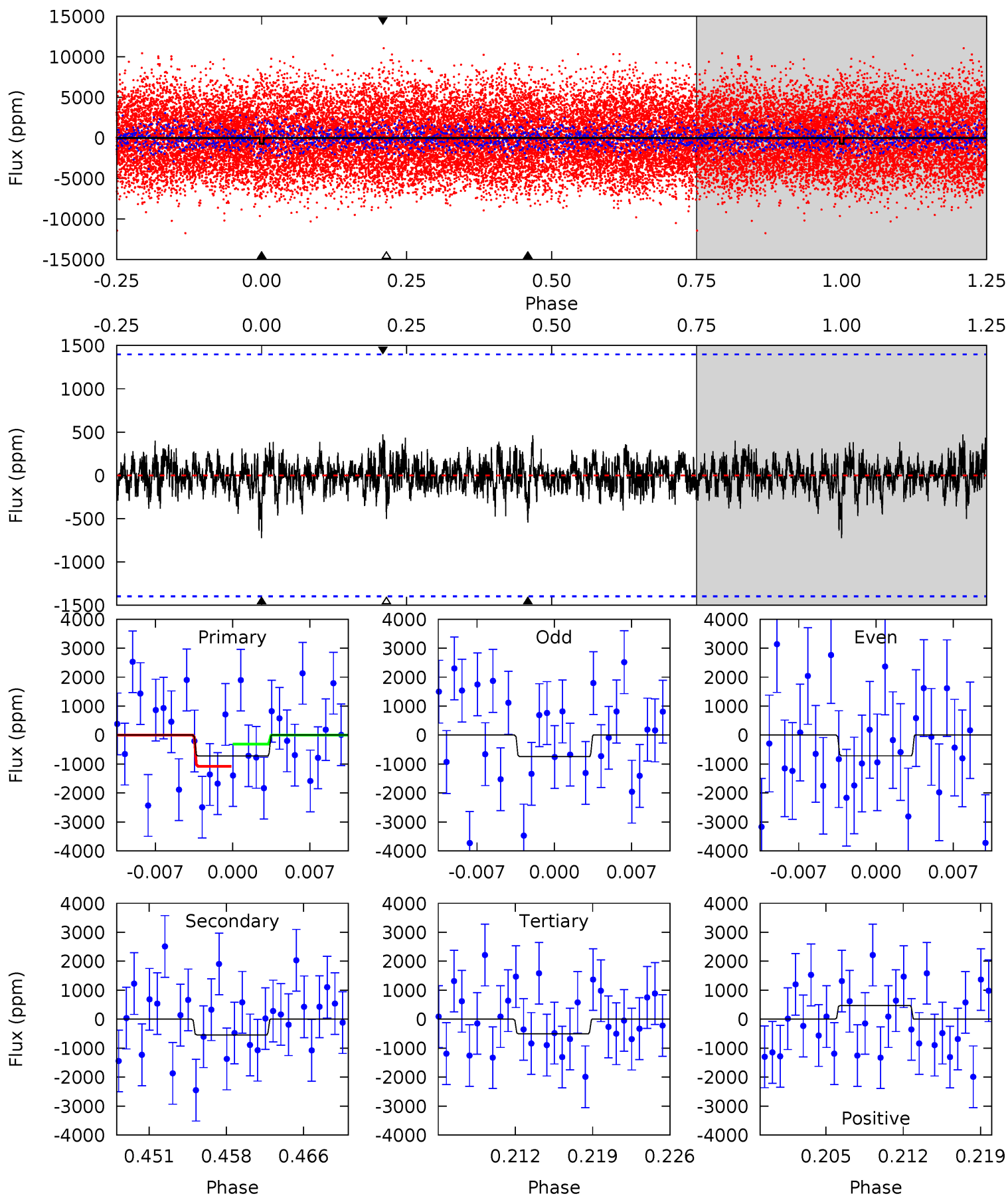
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.33	4.53	3.95	4.08	5.15	2.80	1.48	1.38	1.25	0.58	0.44	2.31	0.92	0.43	0.76



Alt Model-Shift Uniqueness Test

008695156-03, P = 121.406117 Days, E = 17.294106 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.64	1.98	1.83	1.72	5.09	2.69	0.50	0.80	0.92	0.14	0.26	0.04	3.19	0.39	1.40



Stellar Parameters For KIC 008695156

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7818^{+247}_{-302}	$3.607^{+0.493}_{-0.087}$	$-0.320^{+0.250}_{-0.300}$	$3.650^{+0.632}_{-1.771}$	$1.965^{+0.156}_{-0.469}$	$0.057^{+0.316}_{-0.016}$
	+3%/-4%	+14%/-2%	+78%/-94%	+17%/-49%	+8%/-24%	+555%/-29%
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 008695156-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-501±111	$8.98^{+6.10}_{-5.07}$	1146^{+81}_{-152}	7198^{+5128}_{-1613}	1214^{+5230}_{-803}
Alt.	-542±274	$9.31^{+6.63}_{-5.24}$	1142^{+87}_{-144}	7019^{+5047}_{-1750}	1064^{+5034}_{-753}

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

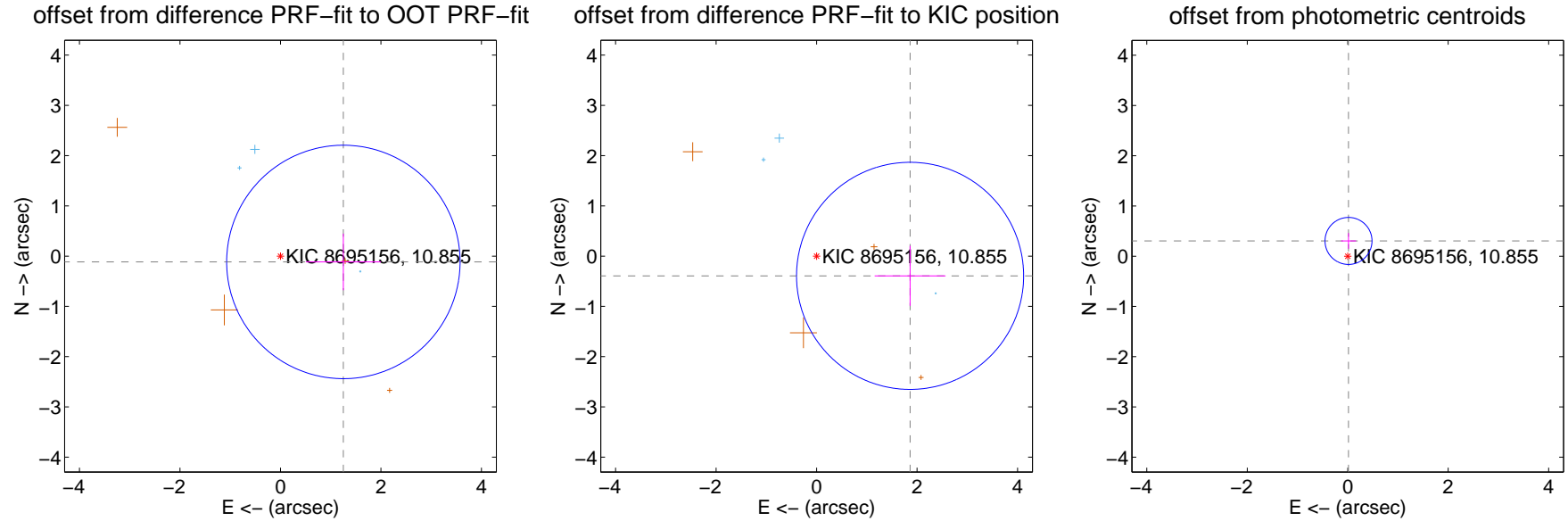
DV Centroid Data

Supplemental centroid analysis for 008695156-03. **Kepler magnitude: 10.86.** Transit SNR 5.07

There are 3 quarters with good PRF difference image offsets

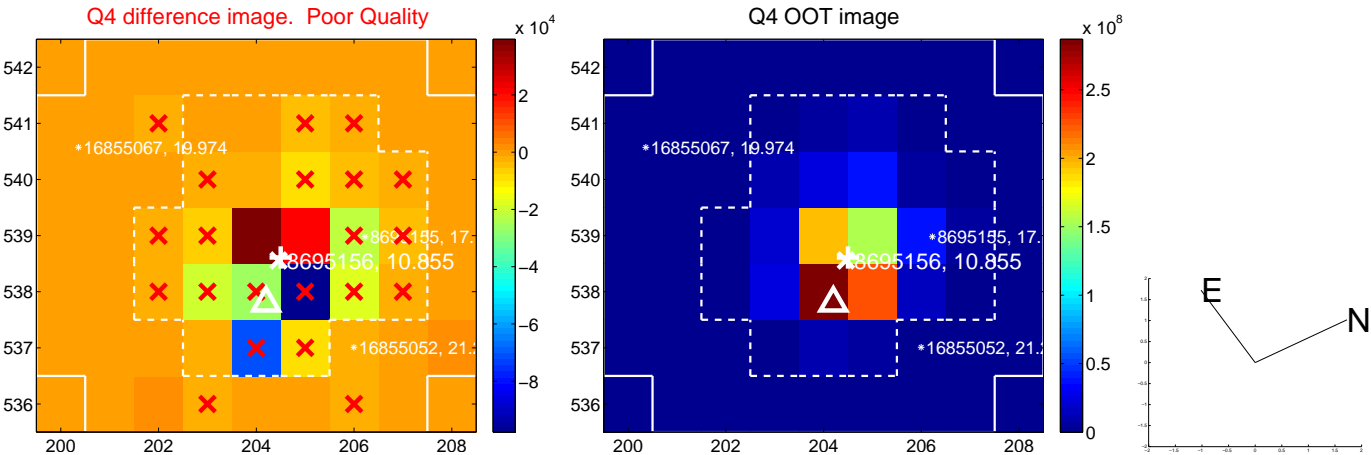
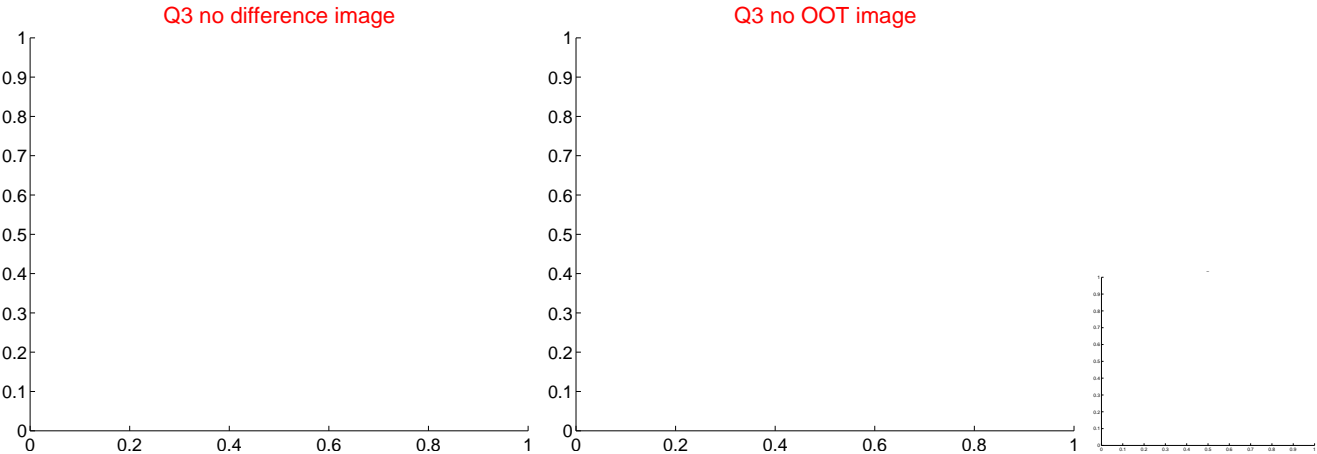
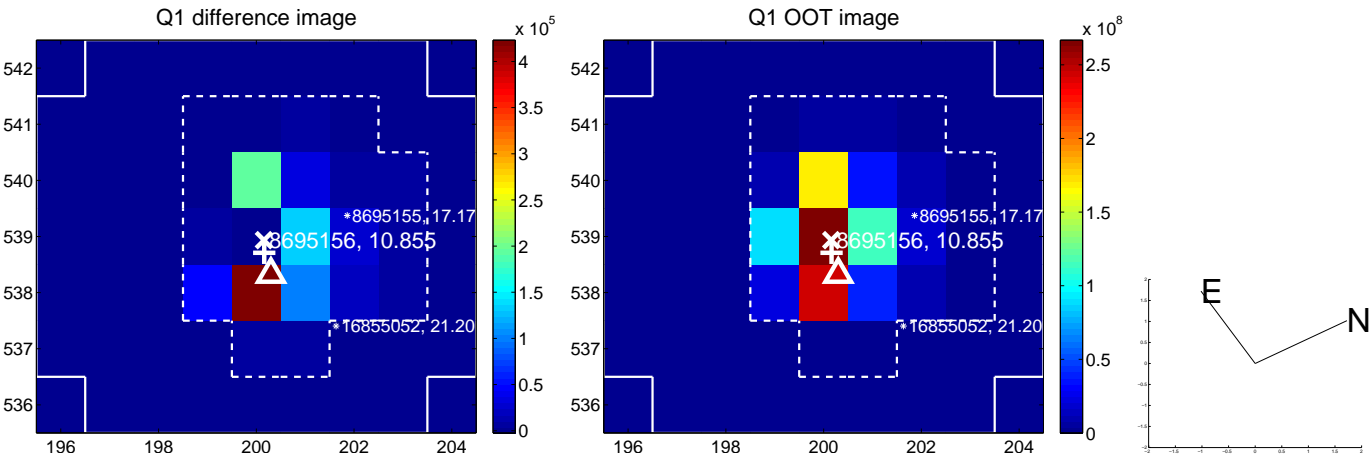
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.257 ± 0.774	1.62	-1.252 ± 0.748	-0.116 ± 0.563
PRF-fit source offset from KIC position	1.902 ± 0.753	2.52	-1.861 ± 0.705	-0.392 ± 0.597
photometric centroid source offset	0.30 ± 0.16	1.95	-0.02 ± 0.15	0.30 ± 0.16

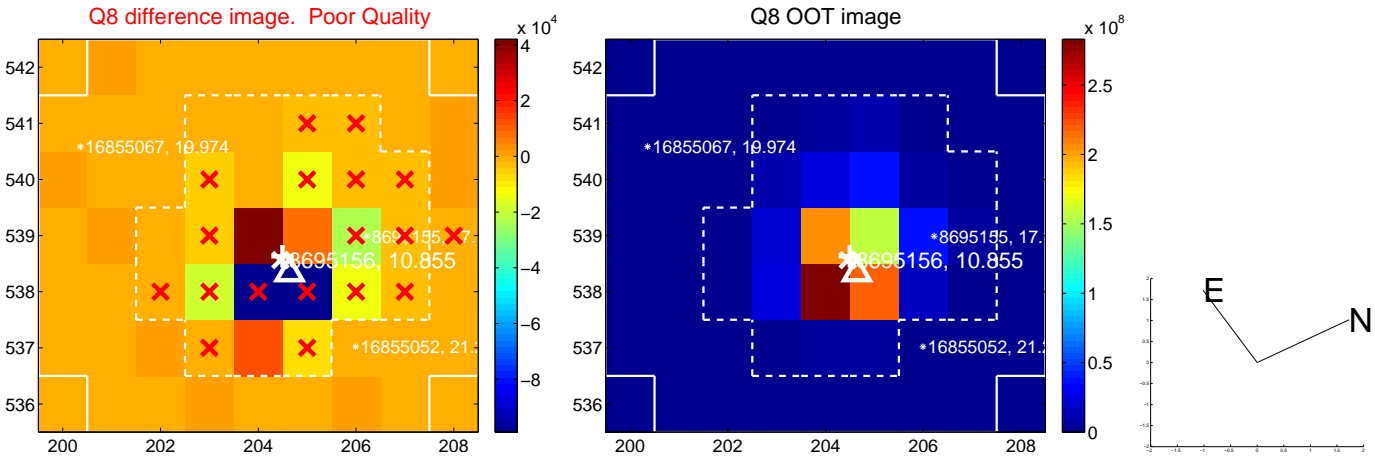
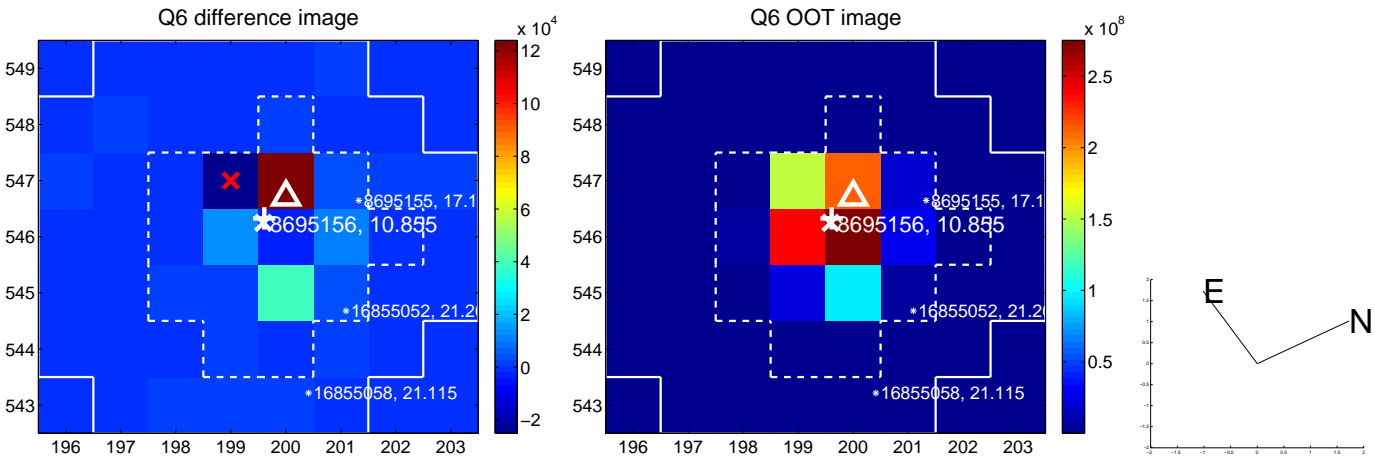
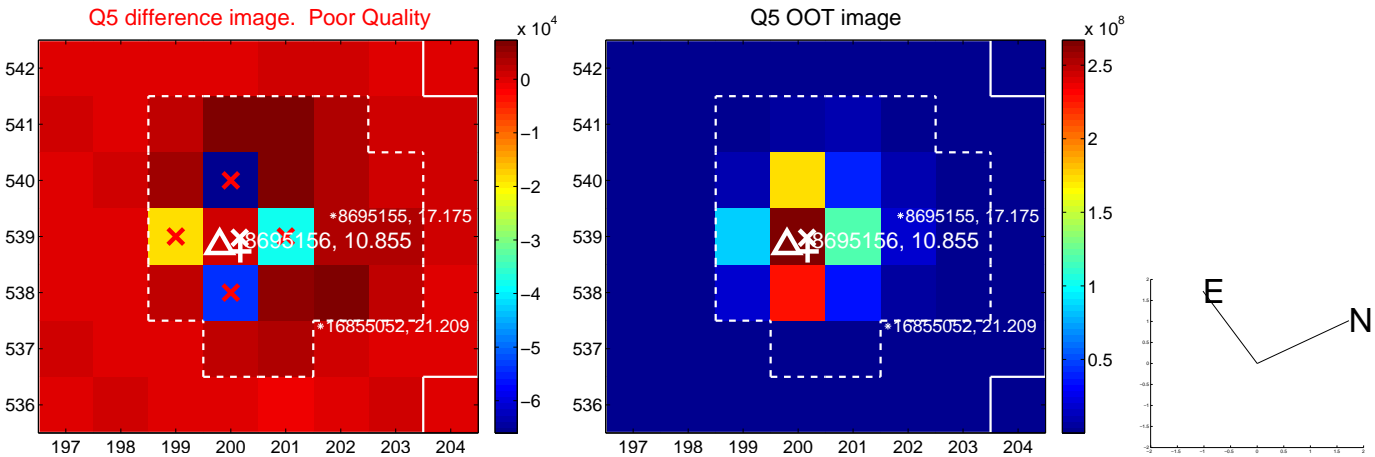


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

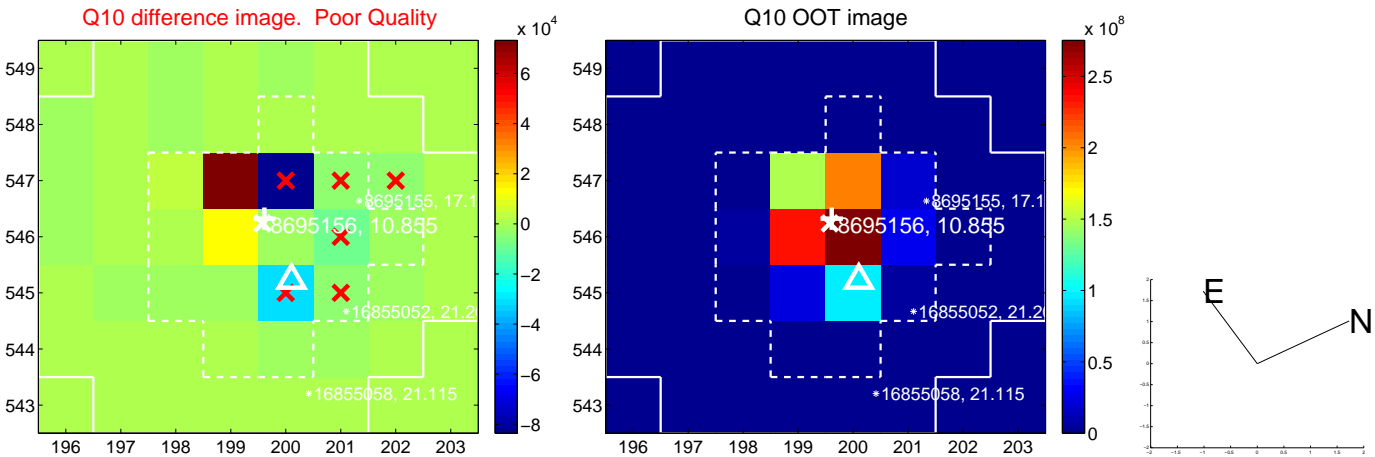
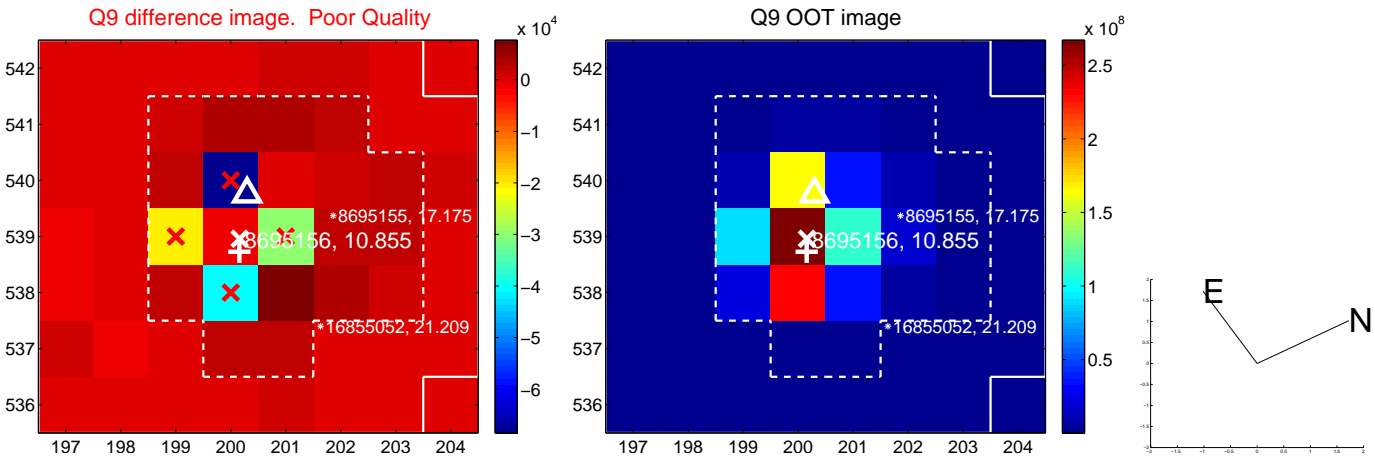
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



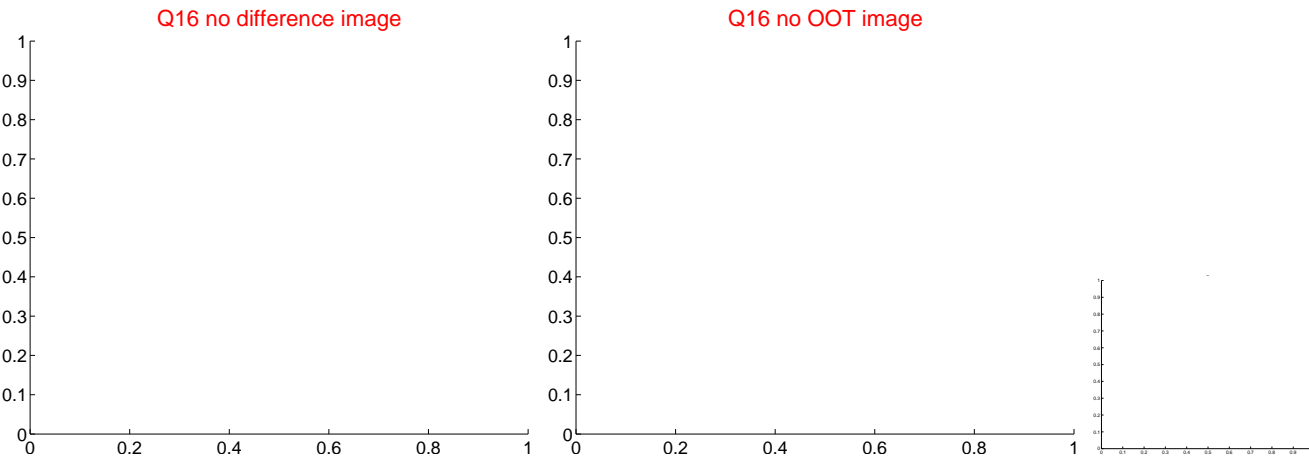
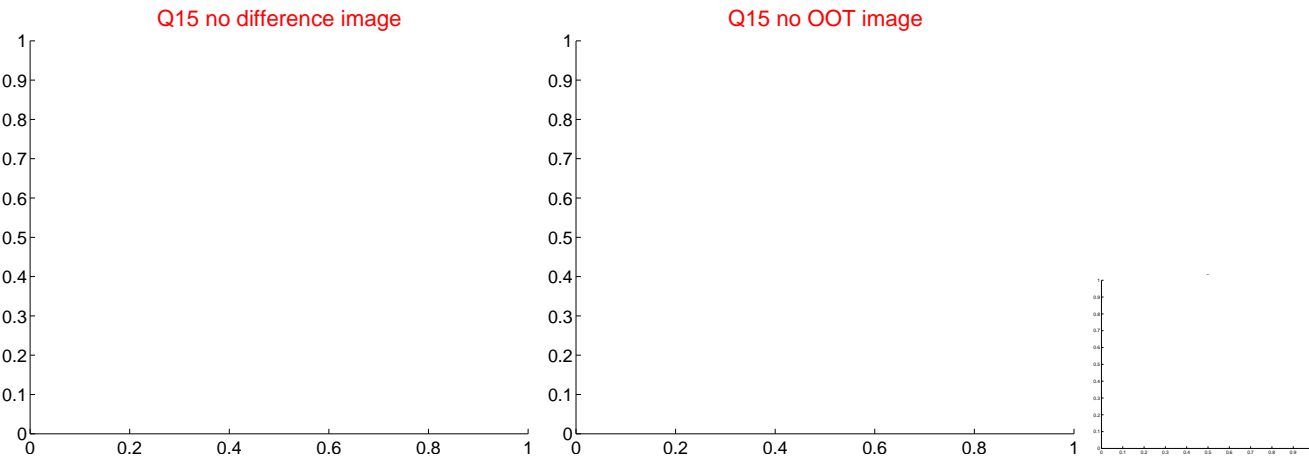
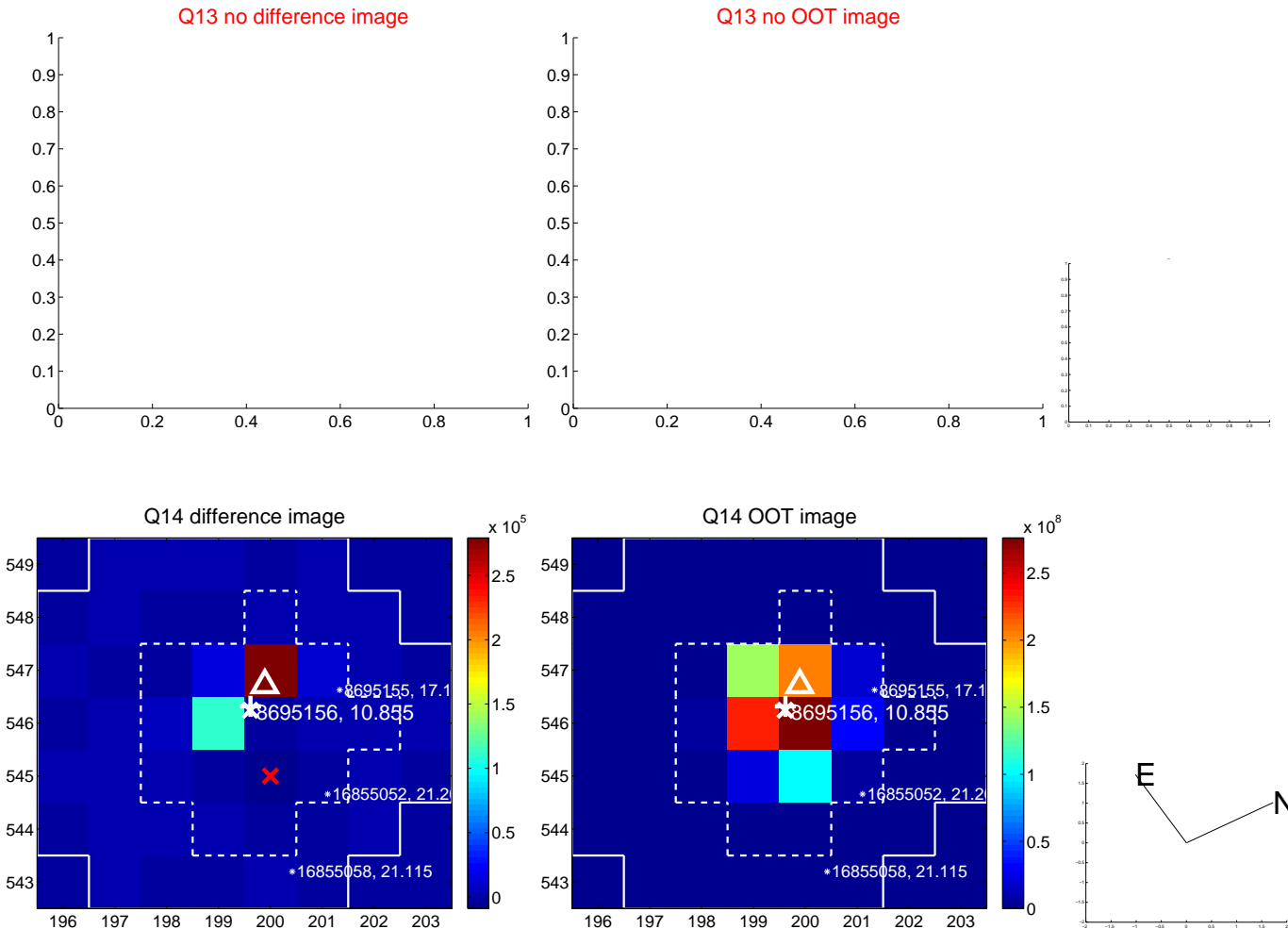
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



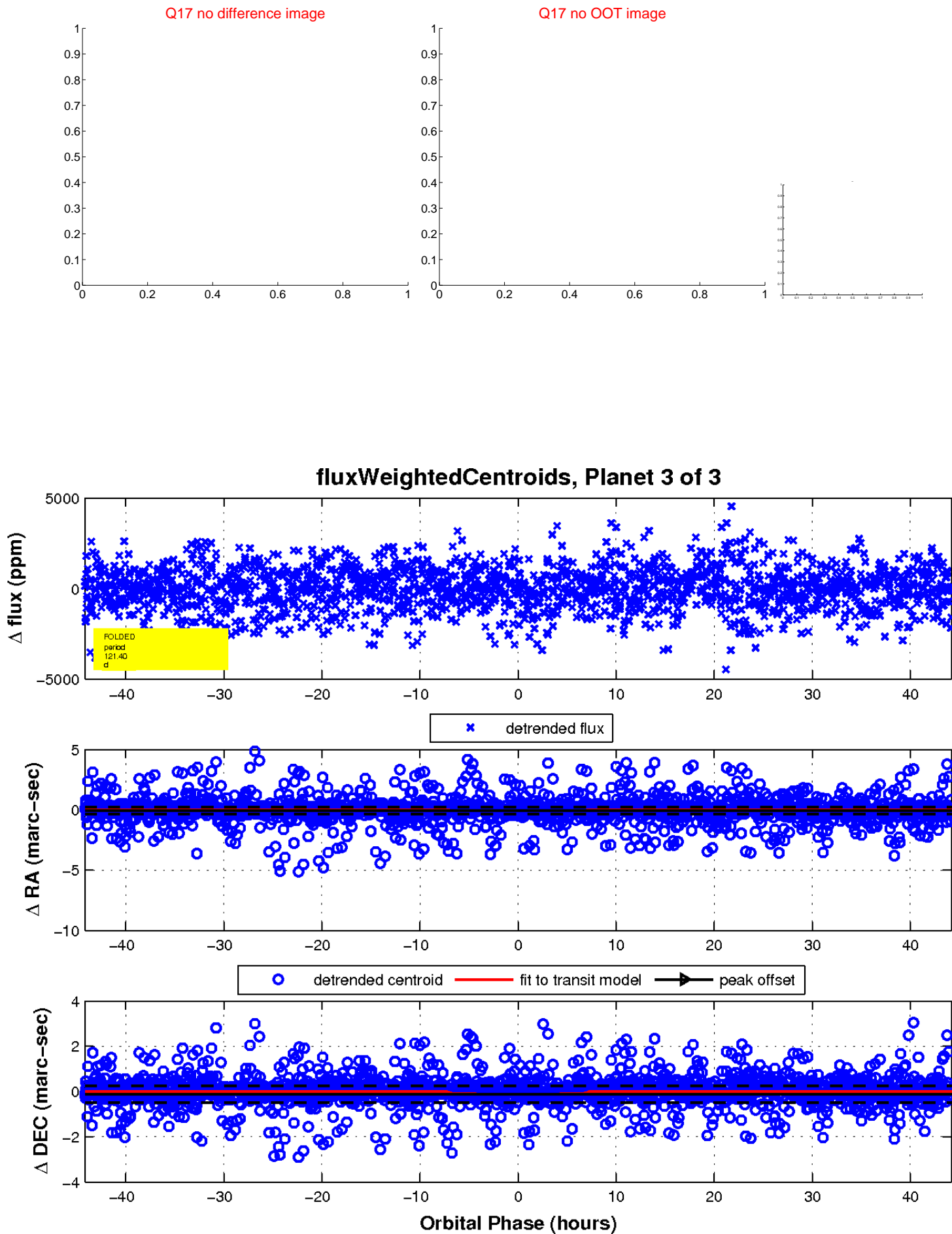
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

