

KIC 011295085

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})
011295085-01	OBS	No	2.498129	131.661553	23.7	2.492	9.7	8.7	2.21	7117	1.27	6218.06
011295085-02	OBS	7436.01	2.497736	133.788409	22.0	2.838	9.9	8.3	2.21	7117	1.30	6219.36
011295085-03	OBS	No	2.498374	132.467865	12.4	8.157	8.7	6.4	2.21	7117	0.90	6217.25
011295085-04	OBS	No	52.803749	169.081761	74.8	5.649	8.1	4.6	2.21	7117	2.19	106.39
011295085-05	OBS	No	149.792856	152.128771	180.0	3.655	7.2	7.7	2.21	7117	3.37	26.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011295085-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011295085-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
011295085-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
011295085-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011295085-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

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

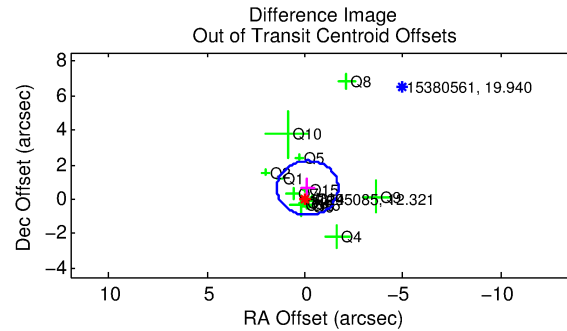
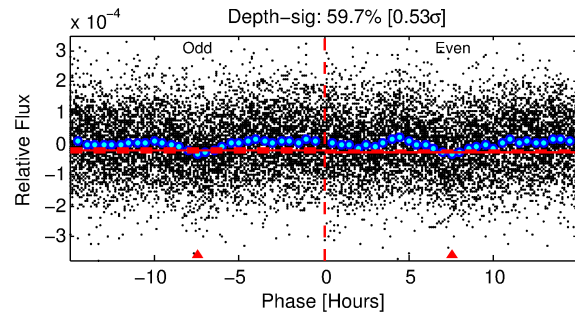
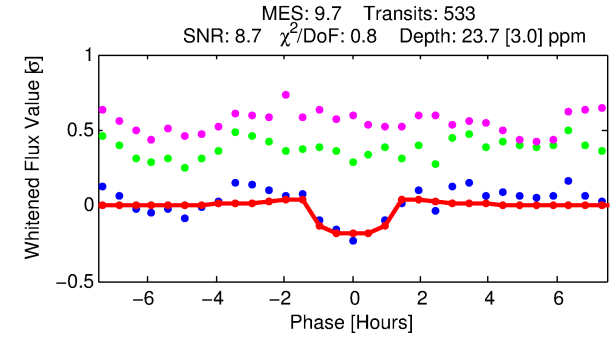
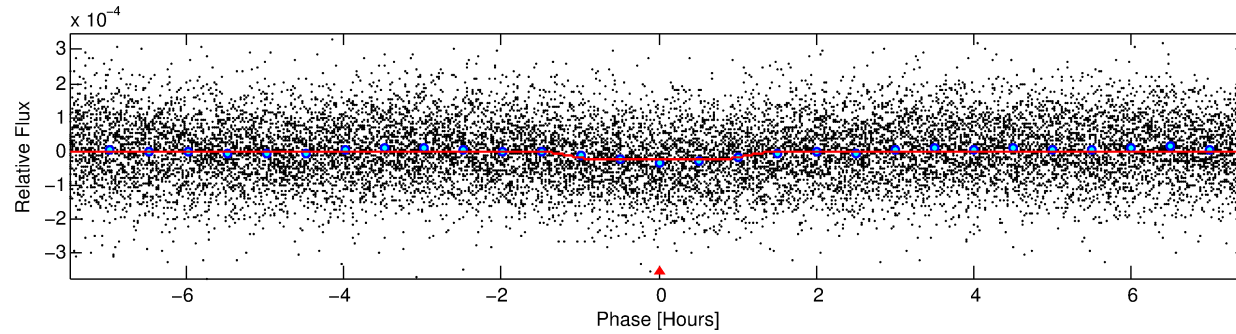
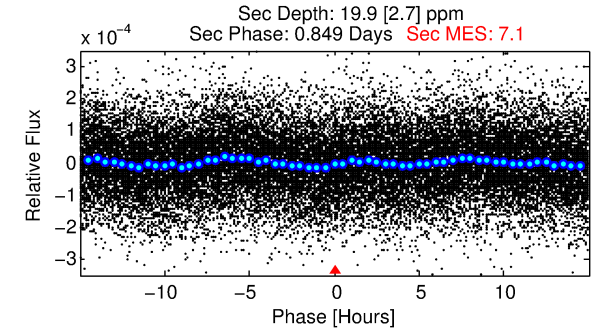
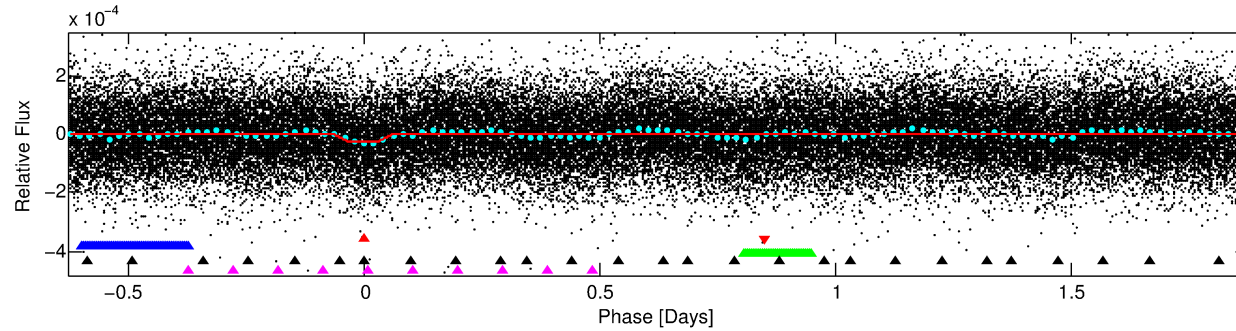
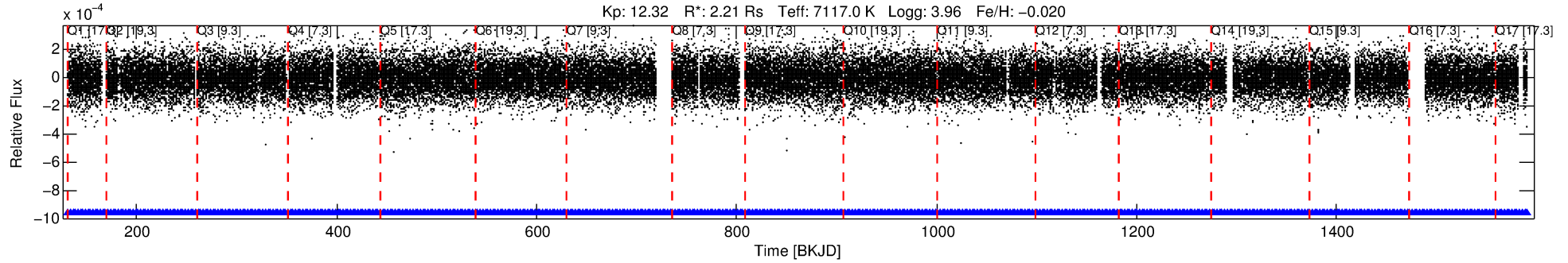
Ephemeris Match Information For 011295085-01

No Significant Match Found

DV One-Page Summary

KIC: 11295085 Candidate: 1 of 5 Period: 2.498 d

KOI: K07436 Corr: No Ephemeris Match



DV Fit Results:

Period = 2.49813 [0.00002] d
Epoch = 131.6616 [0.0032] BKJD
Rp/R* = 0.0053 [0.0013]
a/R* = 3.28 [4.58]
b = 0.92 [0.27]
Seff = 6218.06 [2422.80]
Teq = 2264 [221] K
Rp = 1.27 [0.45] Re
a = 0.0425 [0.0100] AU
Ag = 12.28 [7.74] [1.46σ]
Teffp = 6554 [877] K [4.74σ]

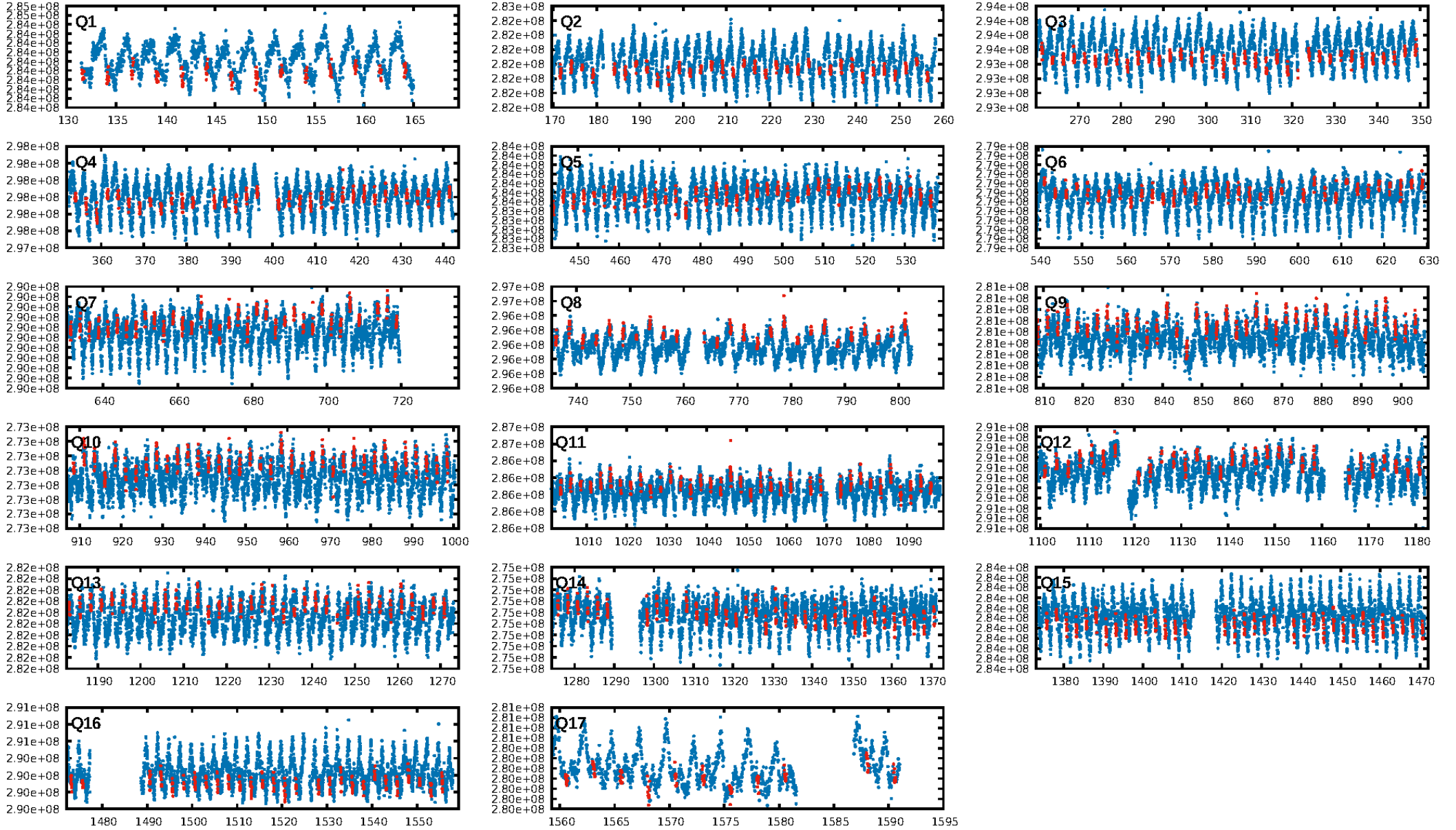
DV Diagnostic Results:

ShortPeriod-sig: 0.2% [0.00σ]
LongPeriod-sig: 0.1% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.05e-15
RollingBand-fgt: 1.00 [508/508]
GhostDiagnostic-chr: 1.274
Centroid-sig: 64.9%
Centroid-so: 0.244 arcsec [0.32σ]
OotOffset-rm: 0.660 arcsec [1.26σ]
KicOffset-rm: 0.620 arcsec [1.13σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.73 [11/15]
DiffImageOverlap-fno: 1.00 [17/17]

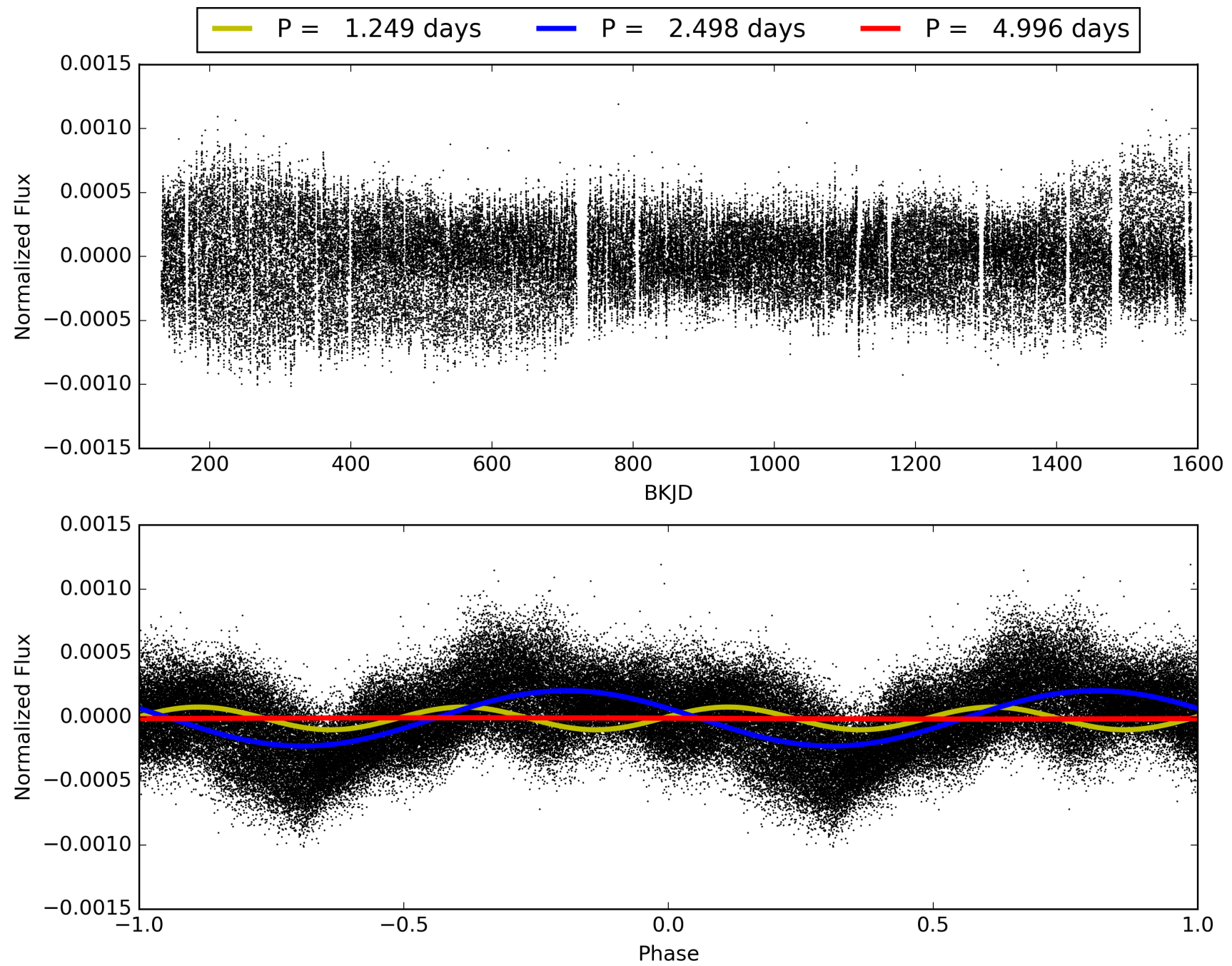
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:12:17 Z

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

TCE 011295085-01, PDC Light Curves

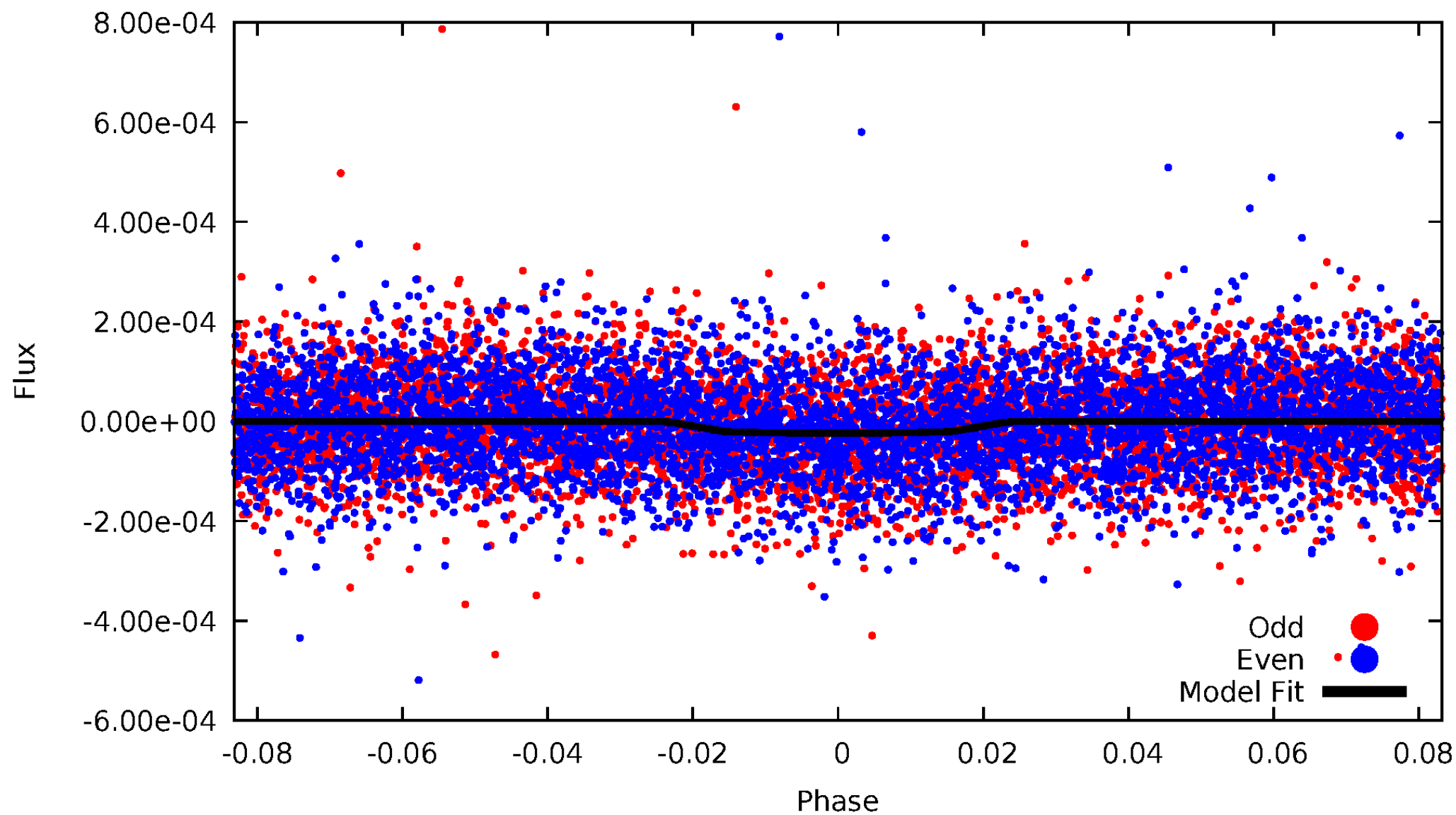


TCE 011295085-01



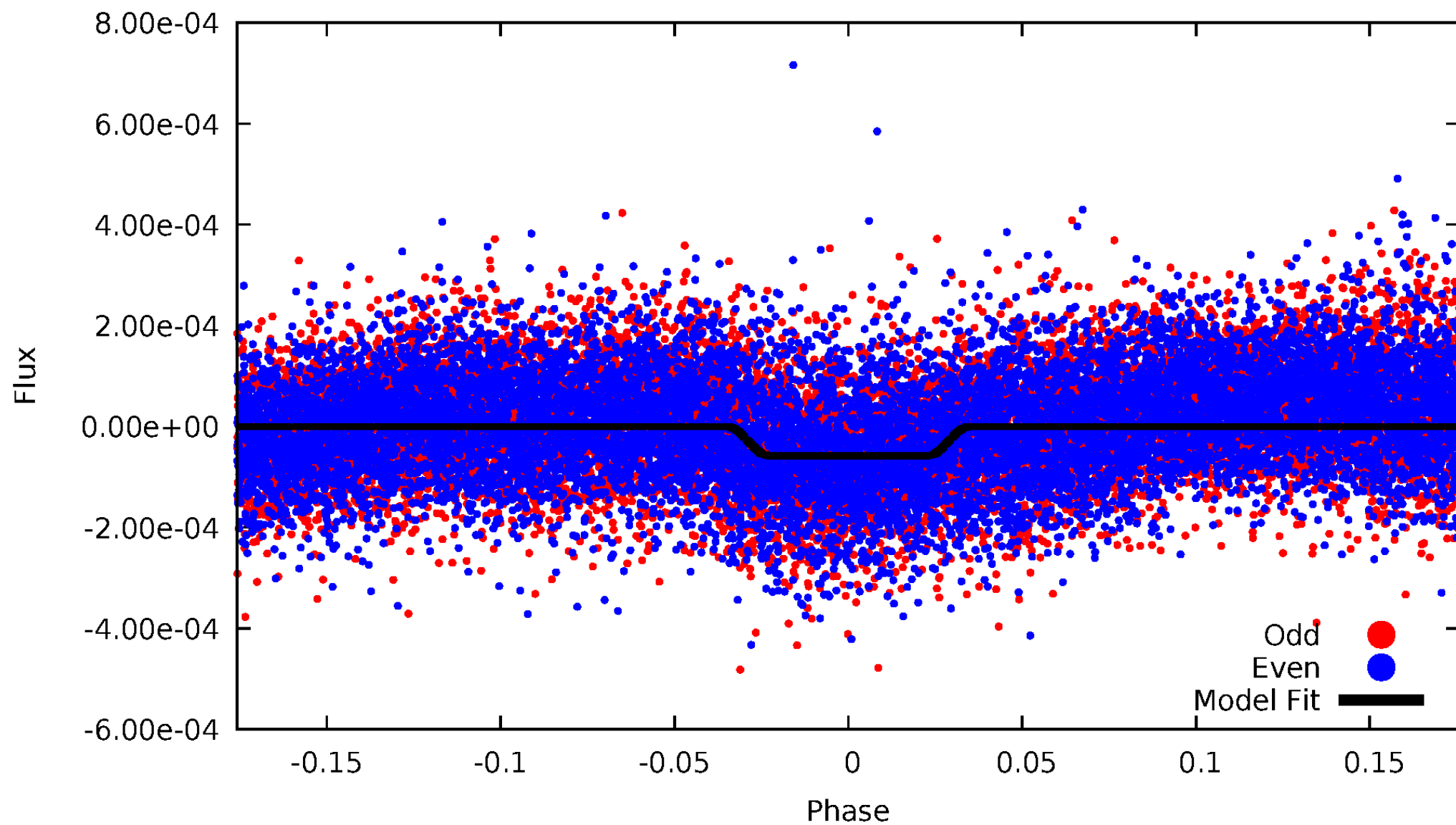
DV Odd/Even

TCE 011295085-01

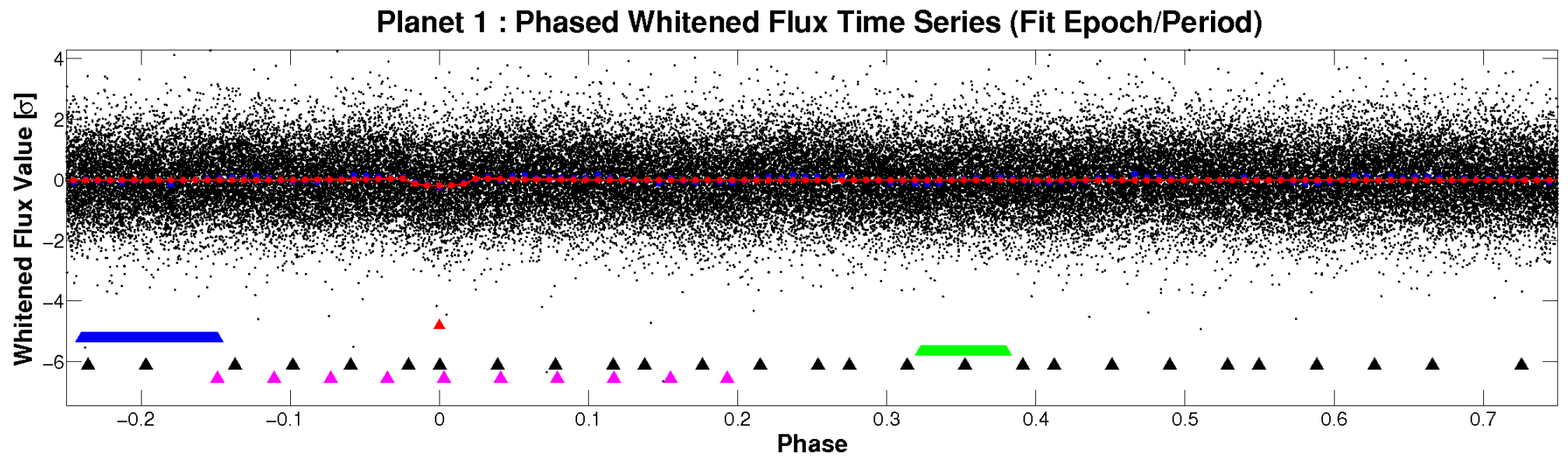
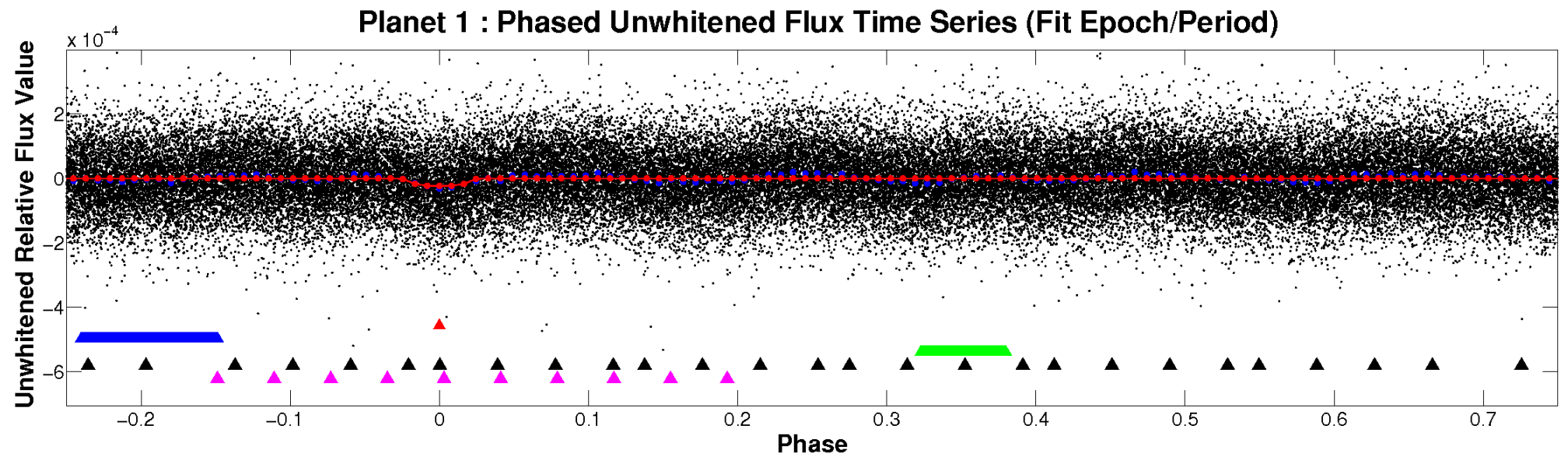


ALT Odd/Even

TCE 011295085-01

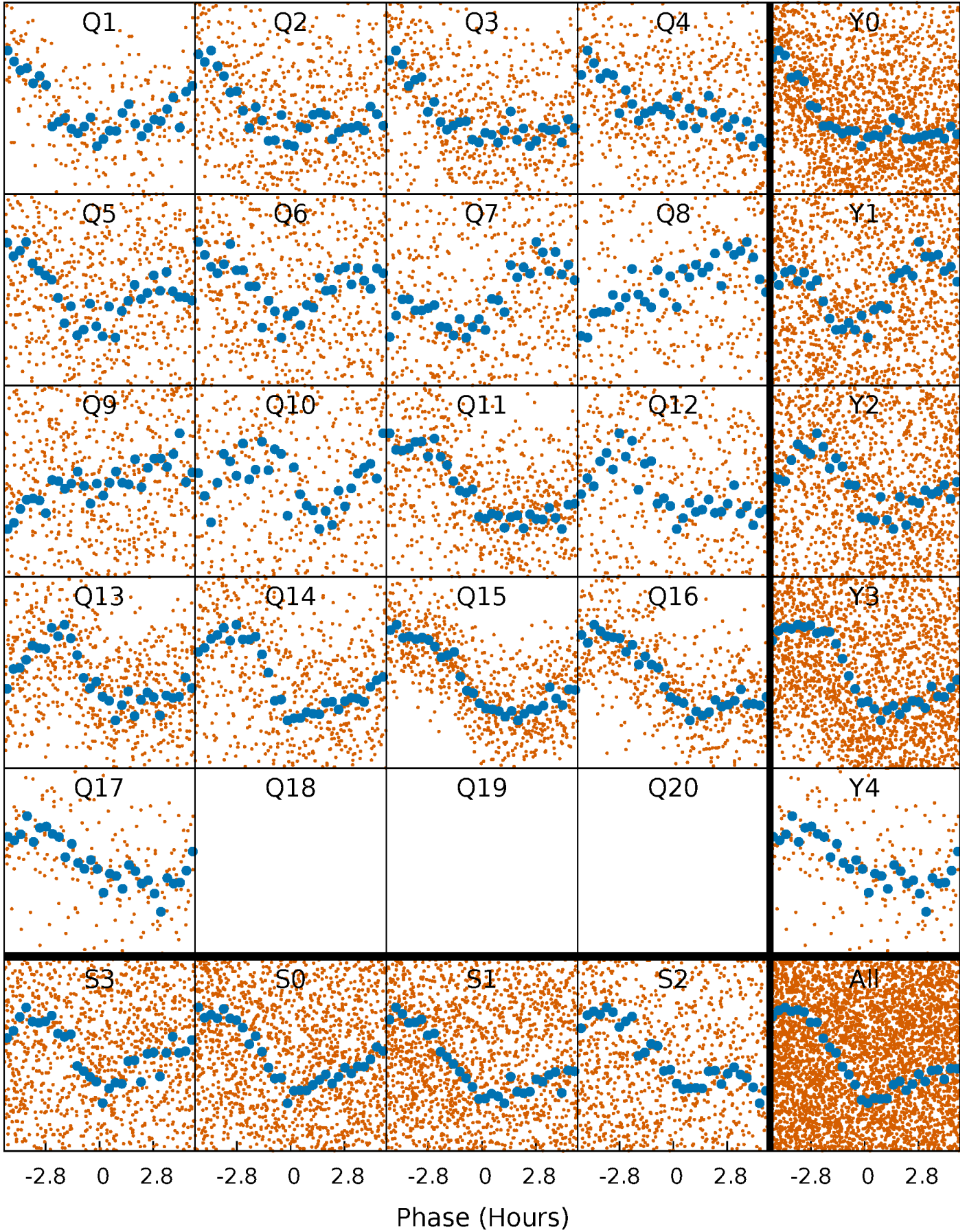


Non-Whitened Vs. Whitened Light Curve



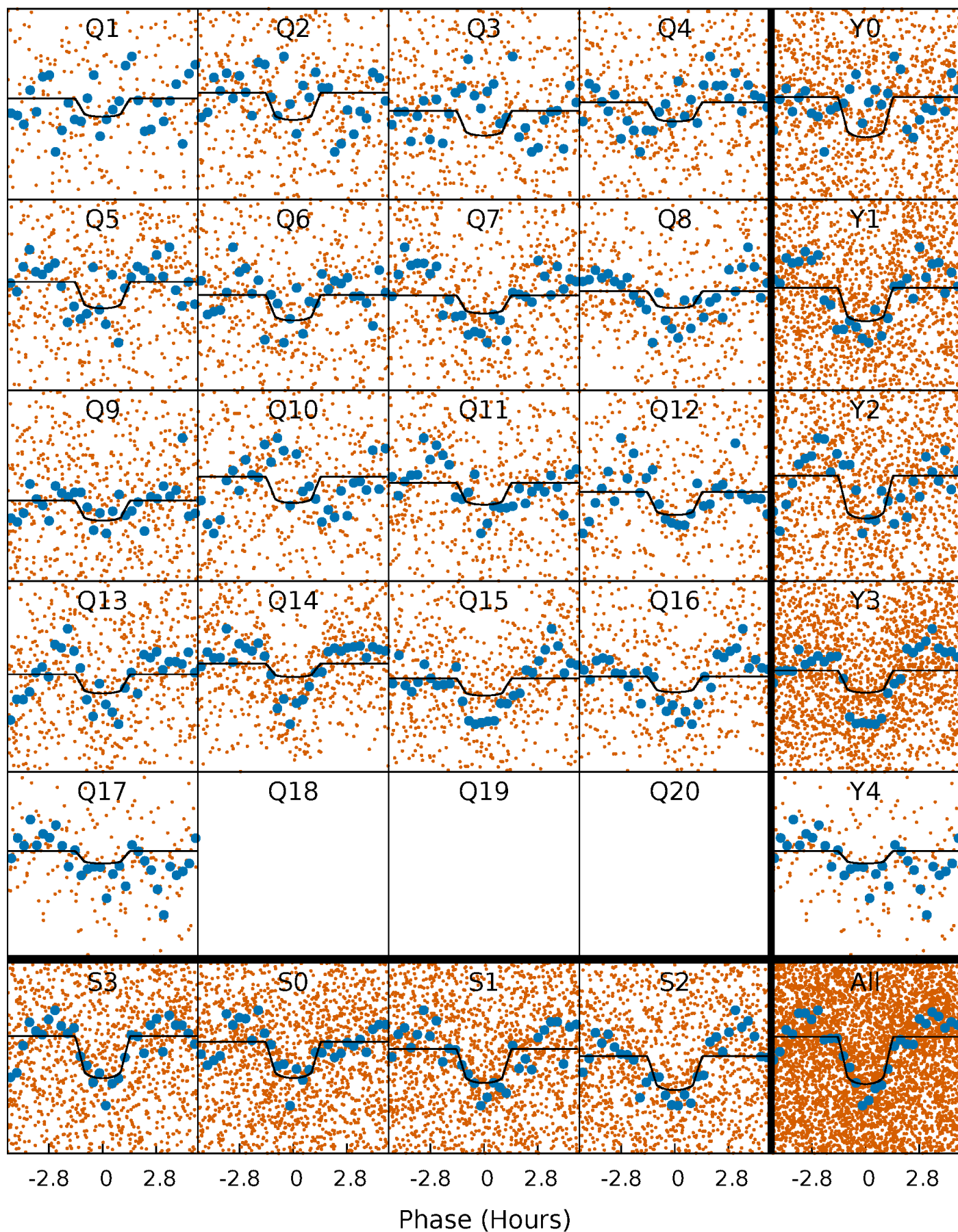
PDC Quarter-Phased Transit Curves

TCE 011295085-01 P= 2.498129 Days $T_0=131.661553$ (BKJD)



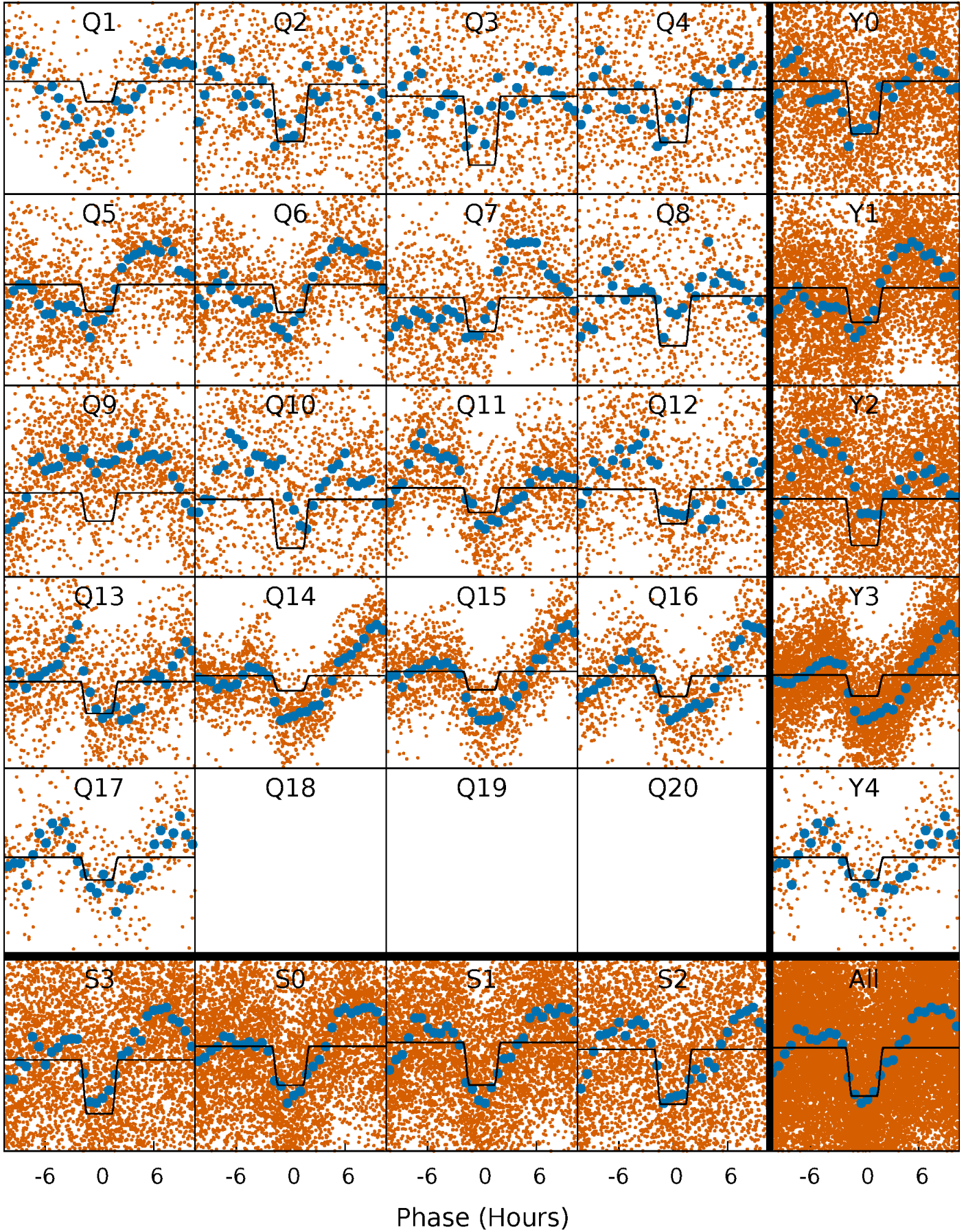
DV Quarter-Phased Transit Curves

TCE 011295085-01 P= 2.498129 Days $T_0=131.661553$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

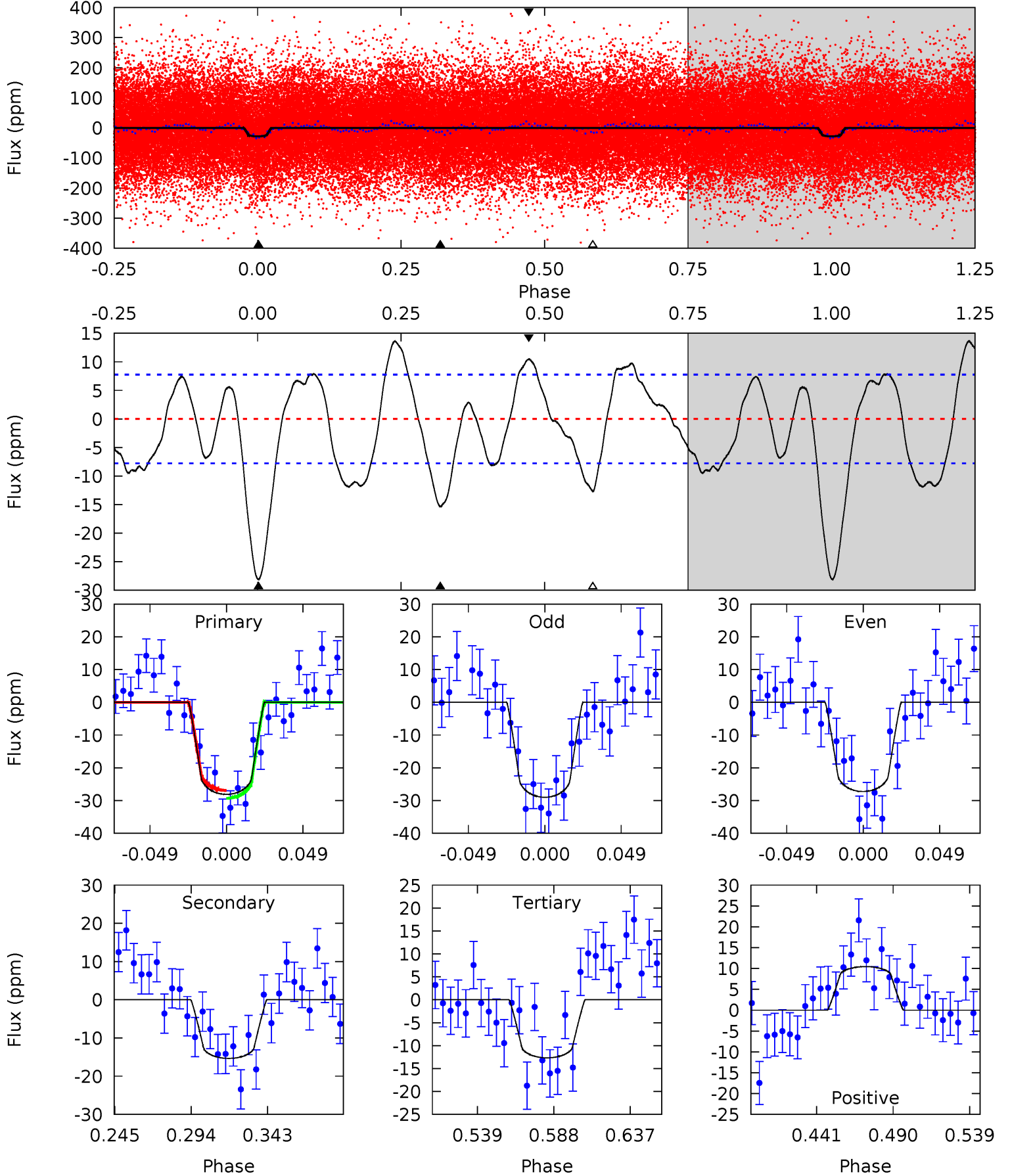
TCE 011295085-01 P= 2.498256 Days $T_0=131.634544$ (BKJD)



DV Model-Shift Uniqueness Test

011295085-01, P = 2.498129 Days, E = 129.163424 Days

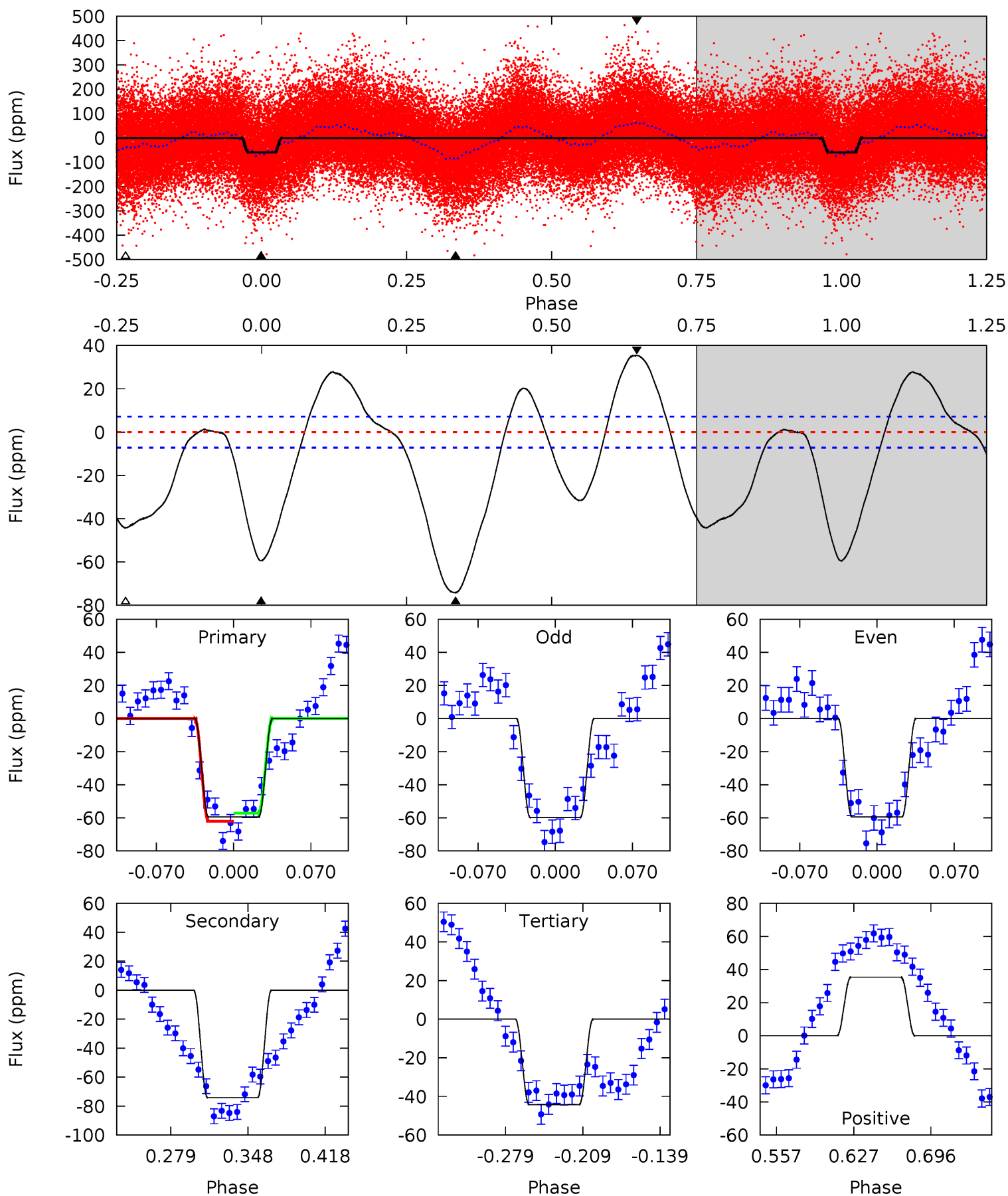
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.1	9.32	7.69	6.35	4.71	1.97	4.22	9.39	10.7	1.63	2.98	0.53	0.95	0.33	0.73



Alt Model-Shift Uniqueness Test

011295085-01, P = 2.498256 Days, E = 129.136288 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.5	48.0	28.6	22.9	4.64	1.81	14.5	9.85	15.6	19.4	25.1	0.14	1.01	0.32	1.57



Stellar Parameters For KIC 011295085

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7117^{+170}_{-255}	$3.964^{+0.208}_{-0.128}$	$-0.020^{+0.250}_{-0.300}$	$2.211^{+0.464}_{-0.568}$	$1.641^{+0.179}_{-0.268}$	$0.214^{+0.232}_{-0.082}$
	+2%/-4%	+5%/-3%	+1250%/-1500%	+21%/-26%	+11%/-16%	+109%/-38%
Source	PHO1	FLK73	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 011295085-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-15 ± 2	$1.23^{+0.35}_{-0.35}$	3130^{+199}_{-217}	6018^{+1009}_{-634}	$9.891^{+8.860}_{-3.859}$
Alt.	-74 ± 2	$1.76^{+0.39}_{-0.35}$	3135^{+193}_{-222}	7618^{+946}_{-729}	23^{+13}_{-7}

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 $A_{obs} \gg 1.0$

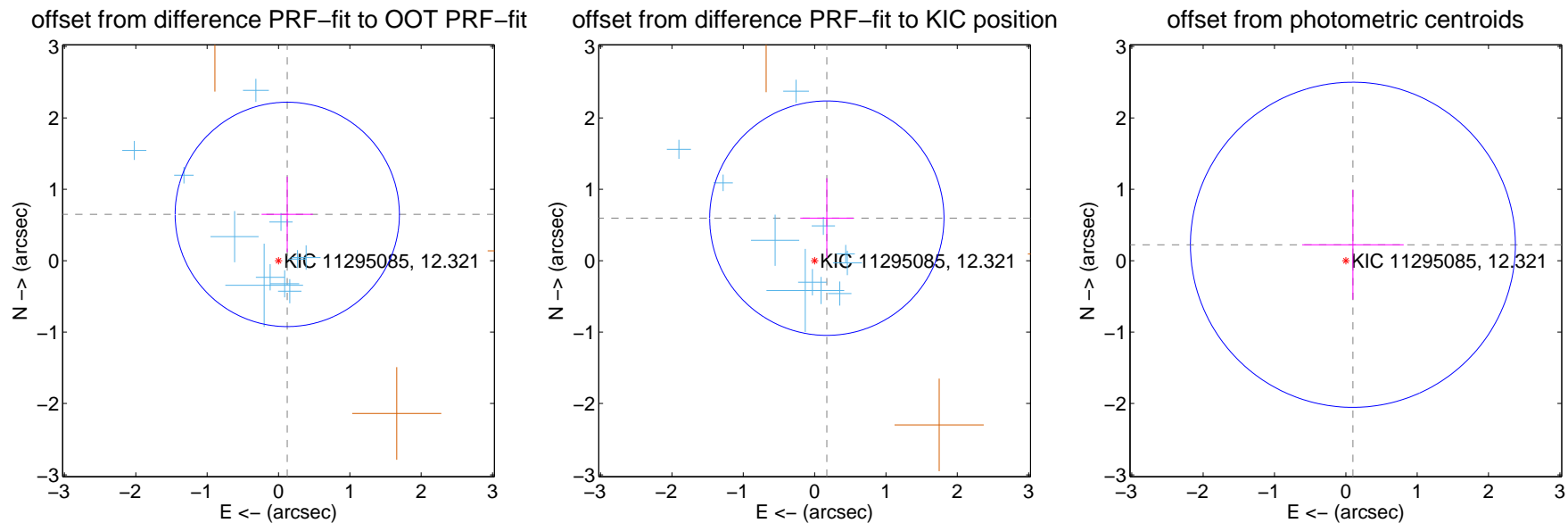
DV Centroid Data

Supplemental centroid analysis for 011295085-01. Kepler magnitude: 12.32. Transit SNR 8.67

There are 11 quarters with good PRF difference image offsets

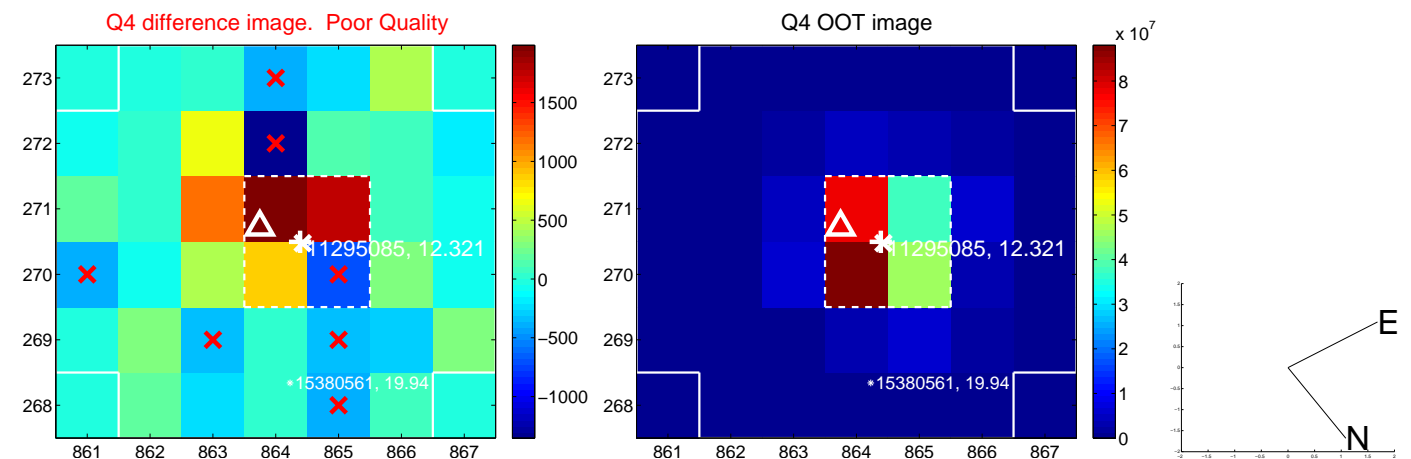
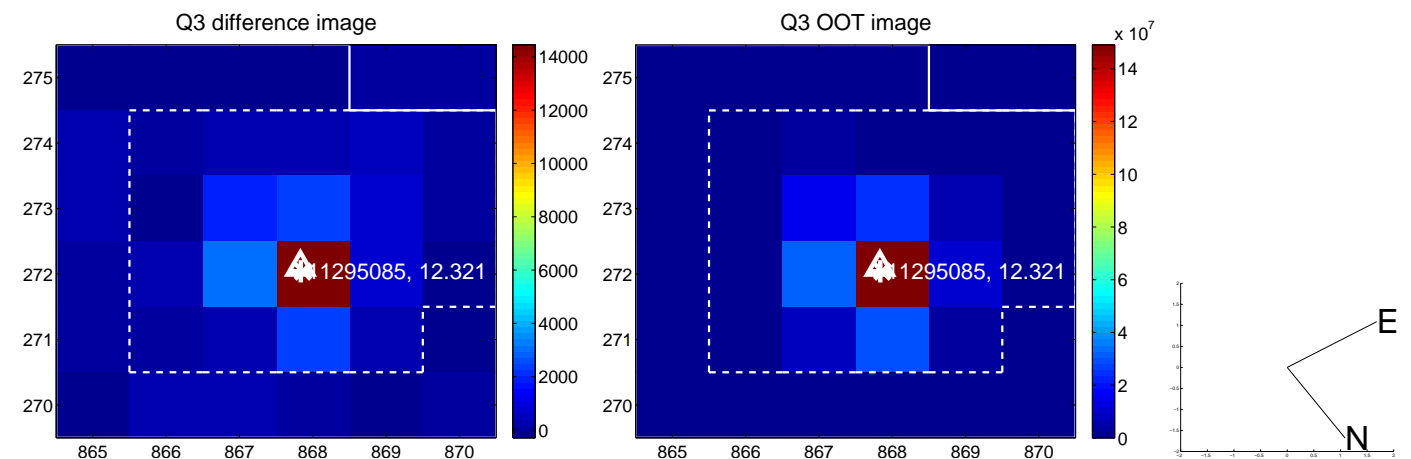
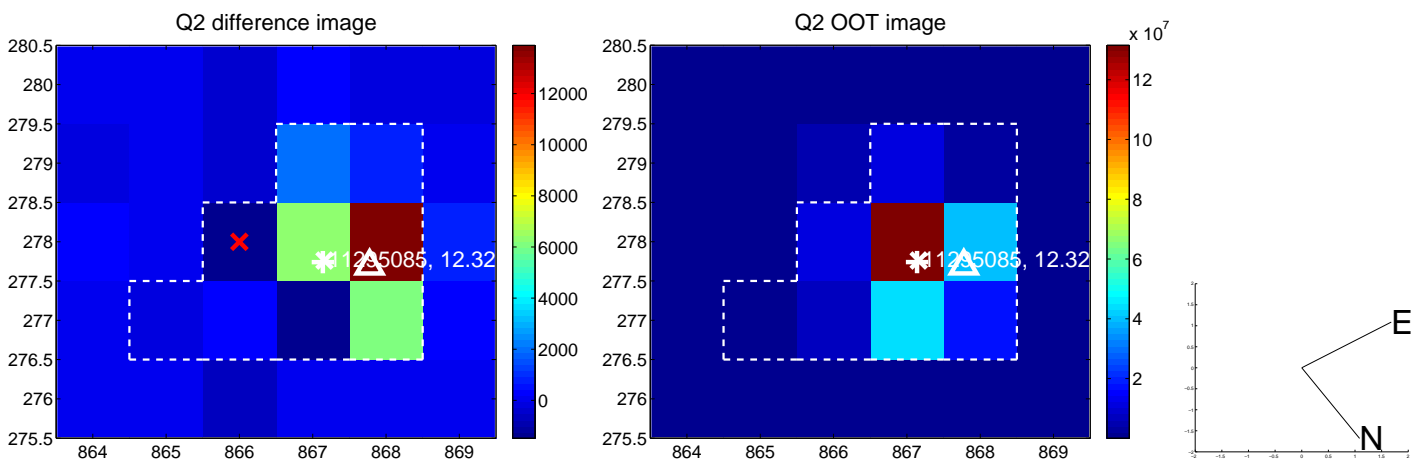
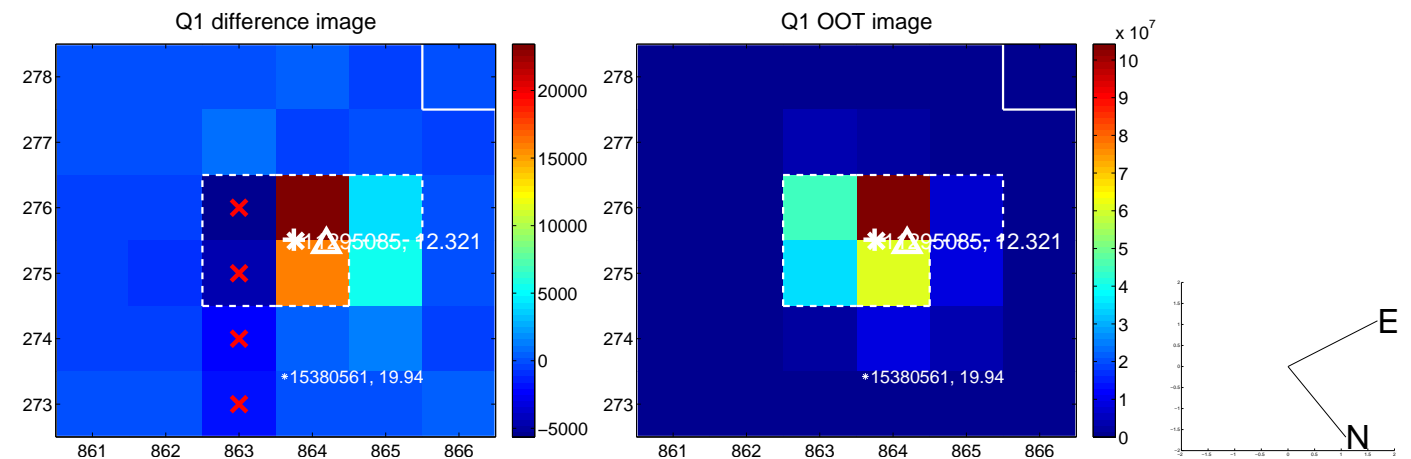
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.660 ± 0.524	1.26	-0.123 ± 0.359	0.649 ± 0.530
PRF-fit source offset from KIC position	0.620 ± 0.547	1.13	-0.171 ± 0.373	0.596 ± 0.558
photometric centroid source offset	0.24 ± 0.76	0.32	-0.10 ± 0.71	0.22 ± 0.77

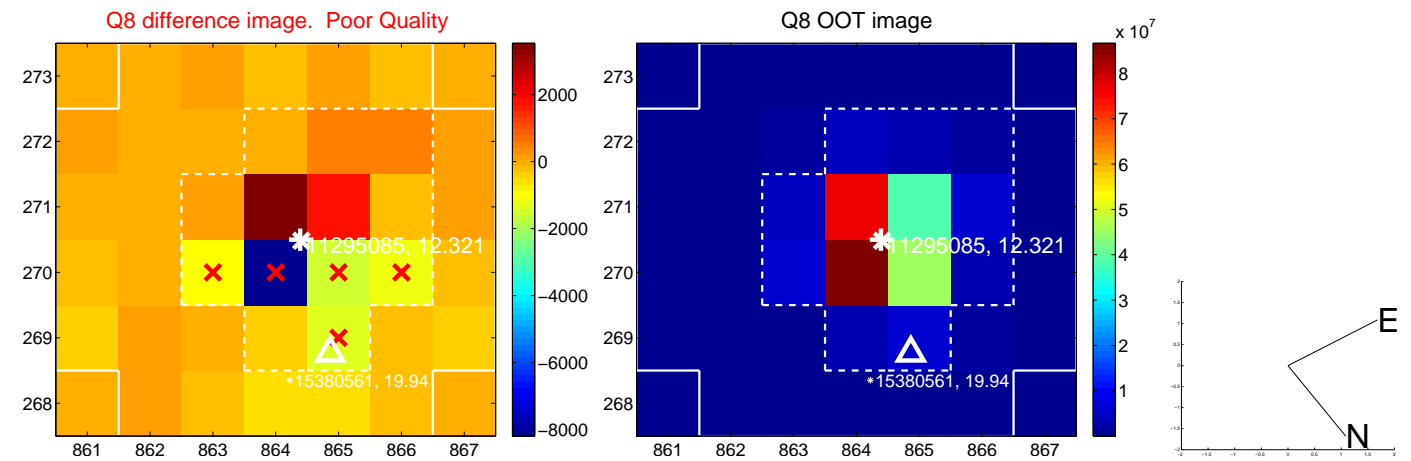
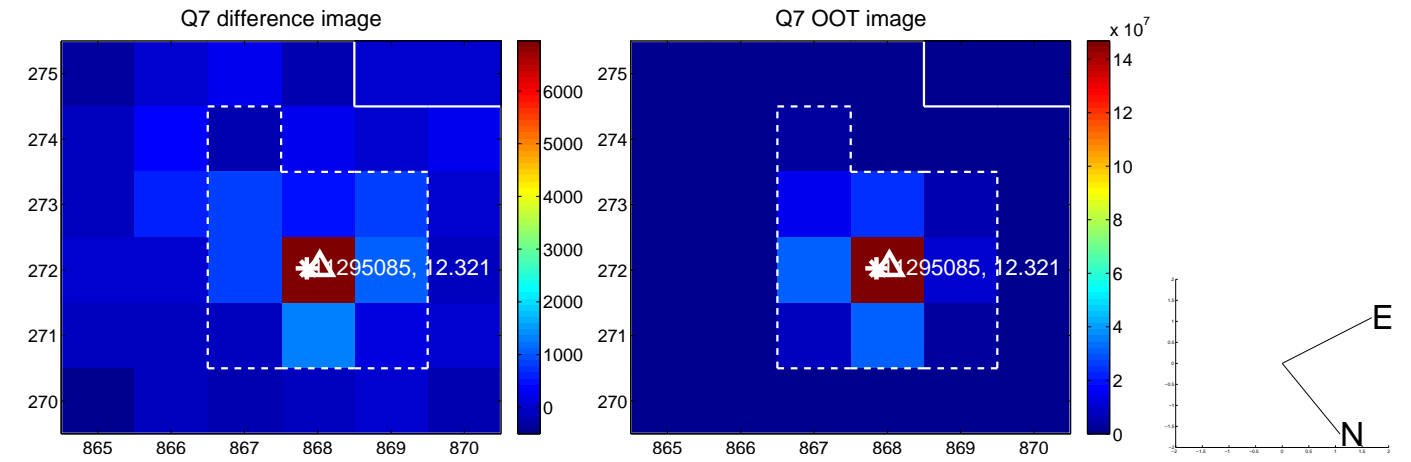
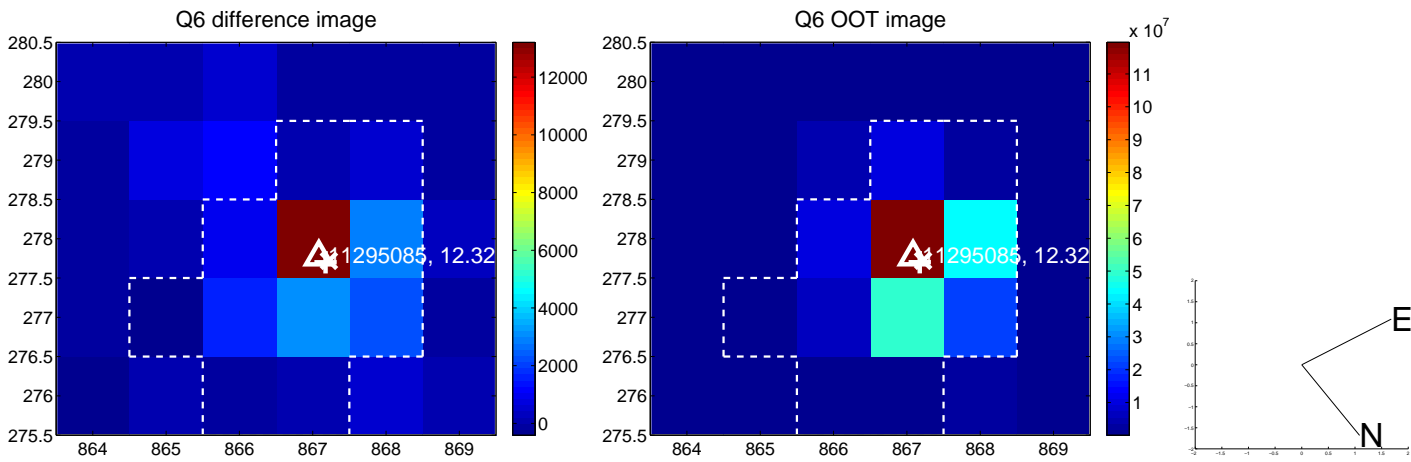
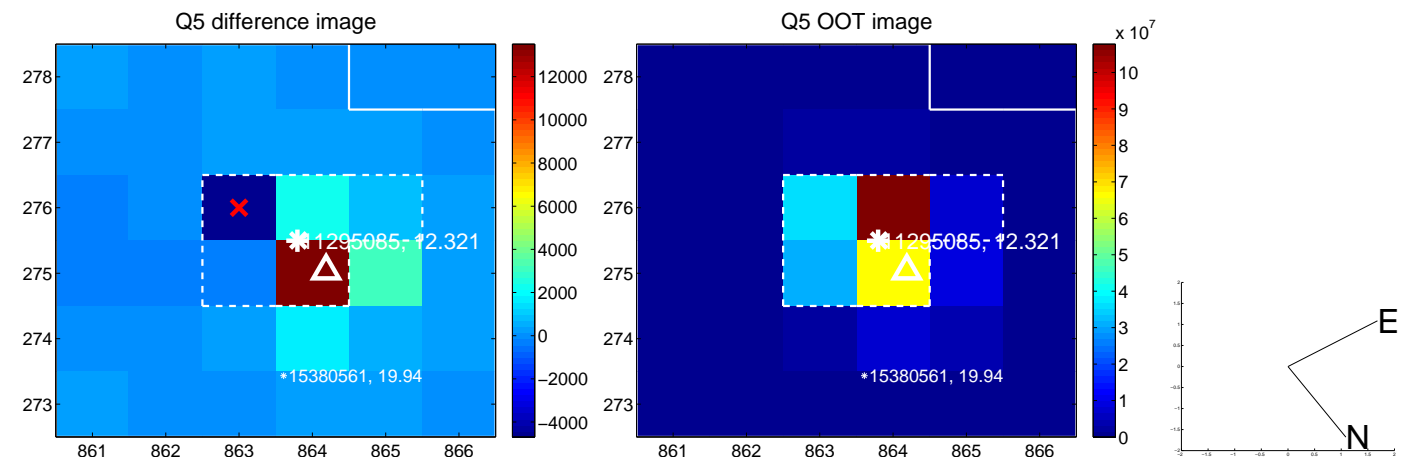


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

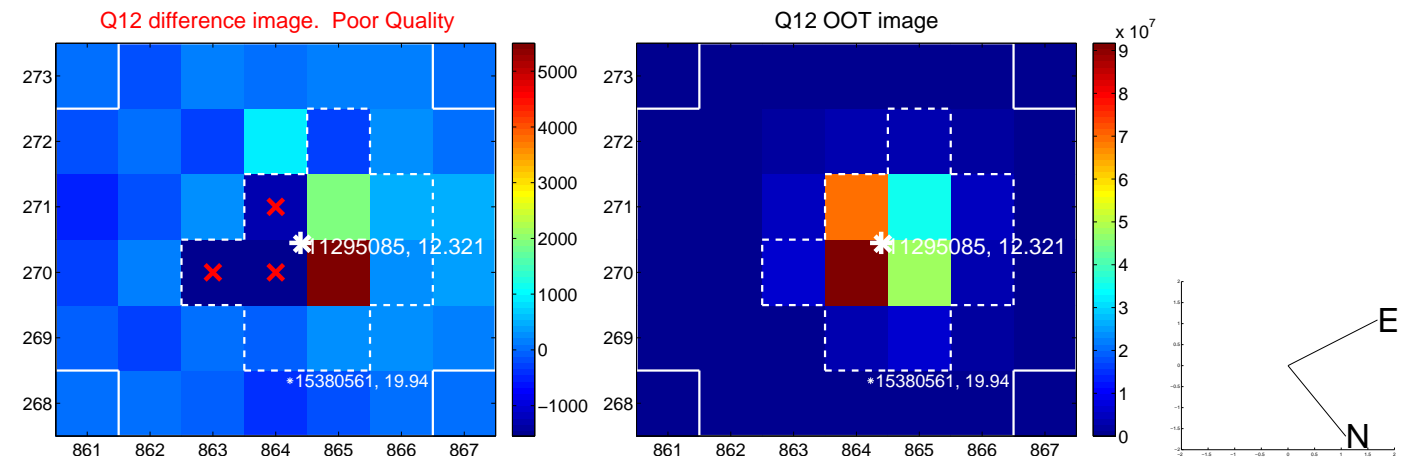
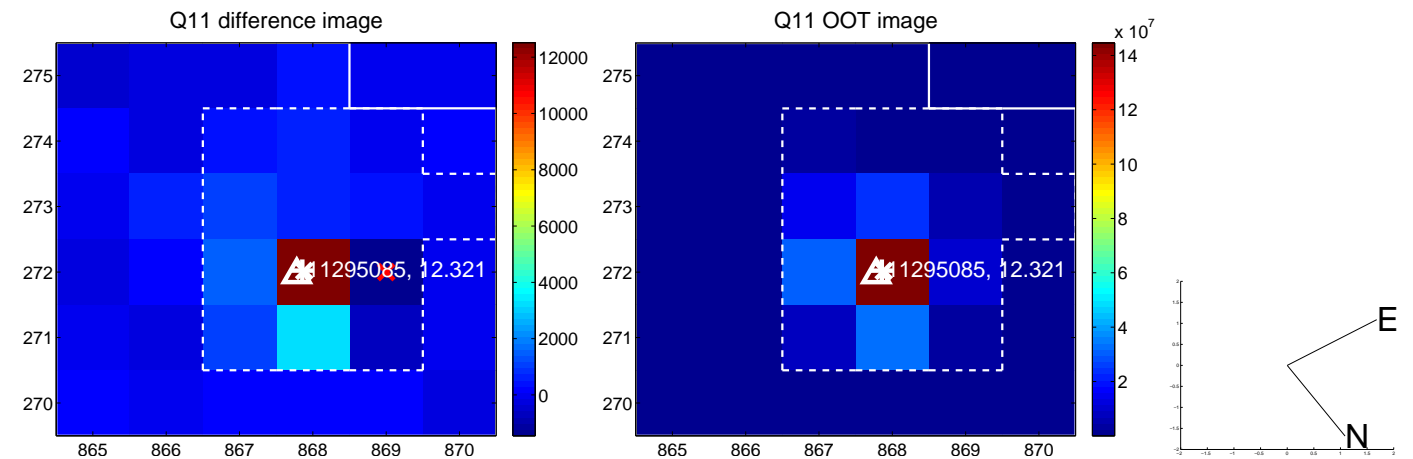
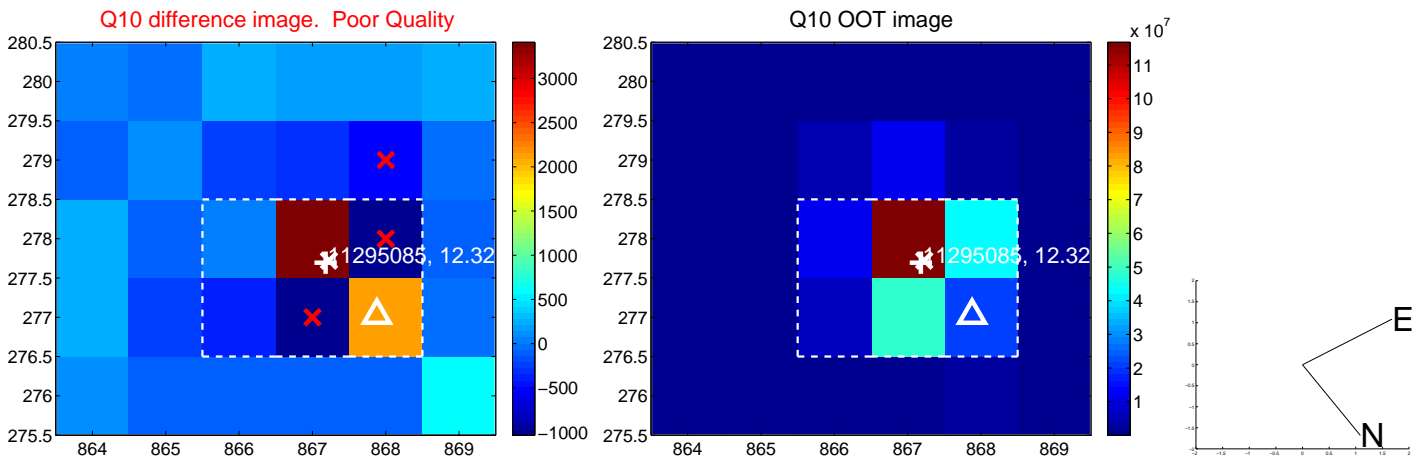
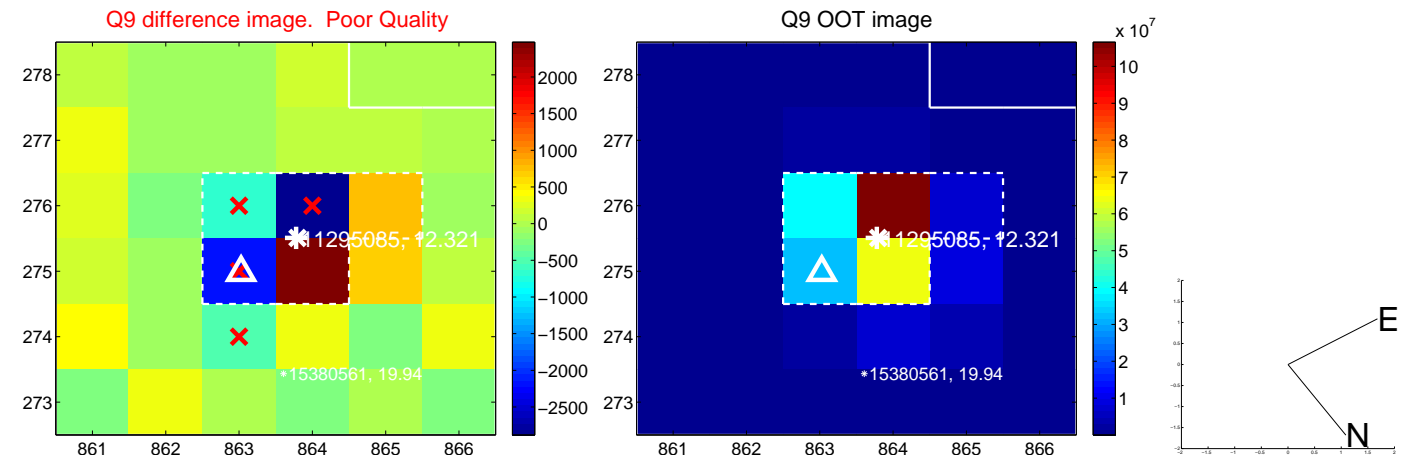
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



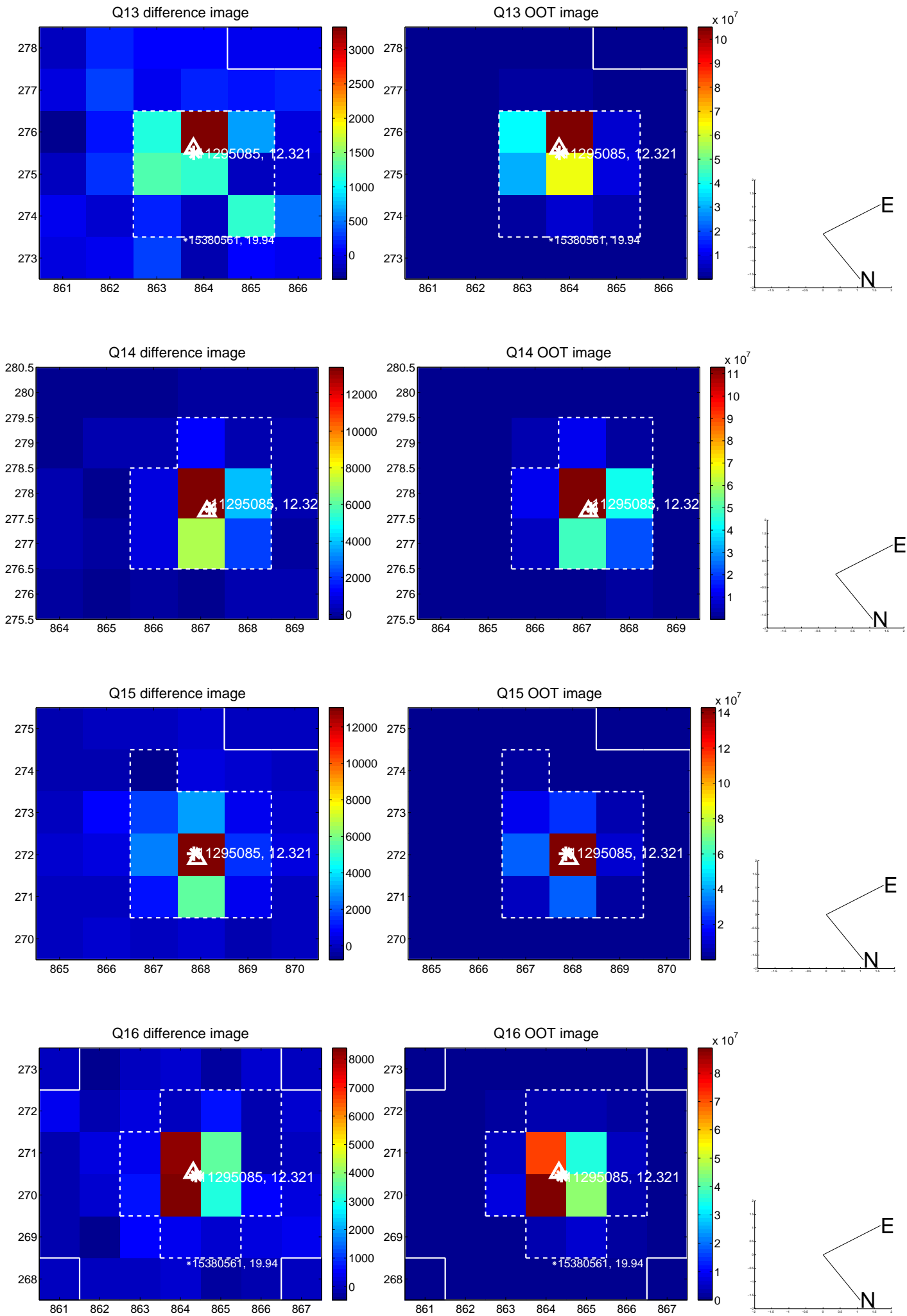
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



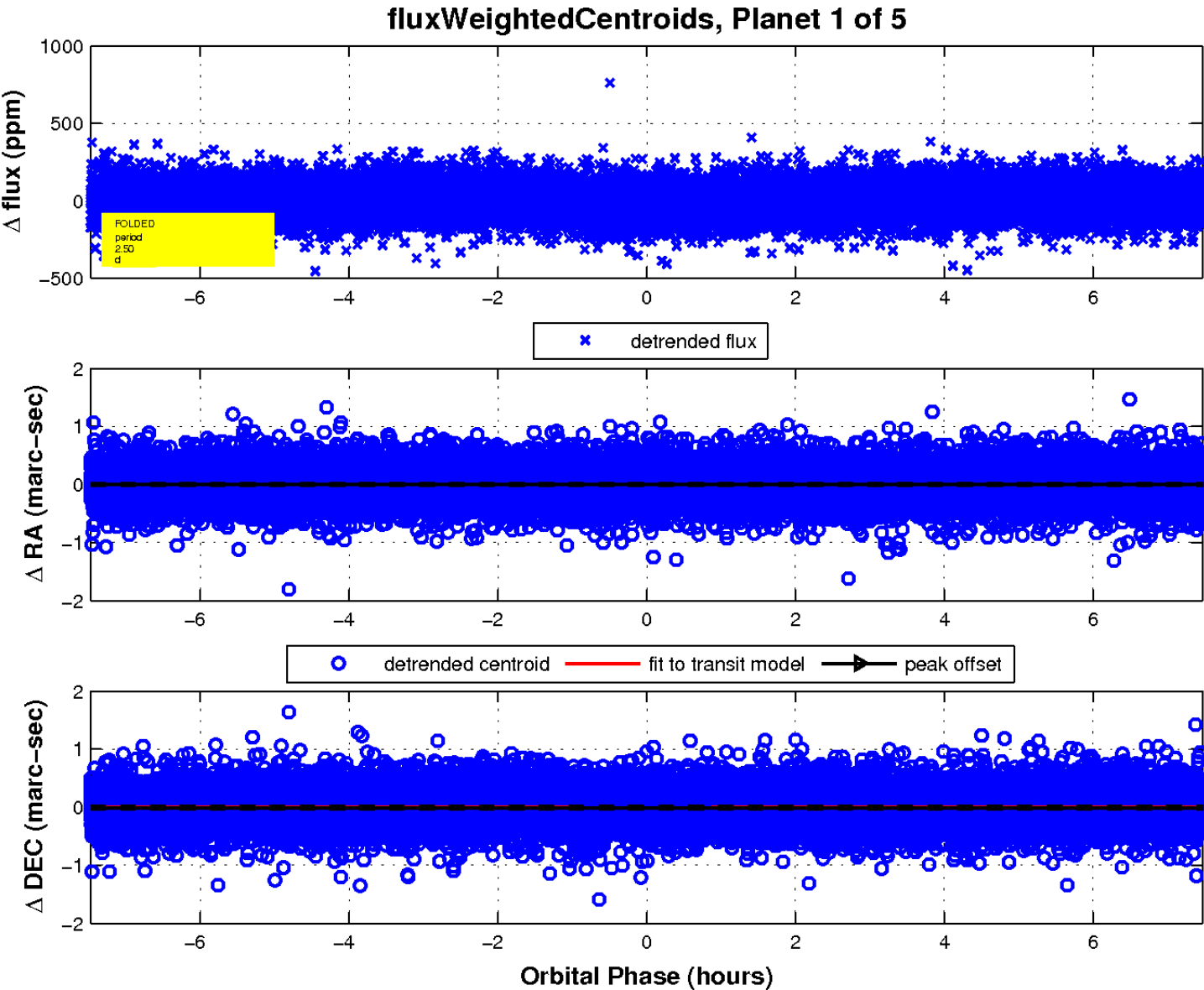
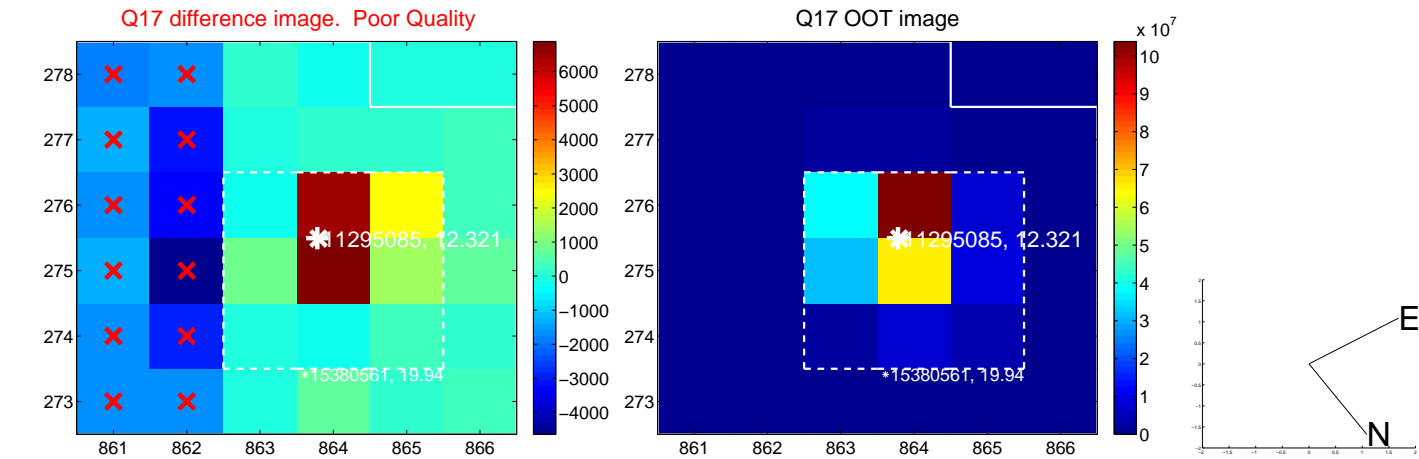
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

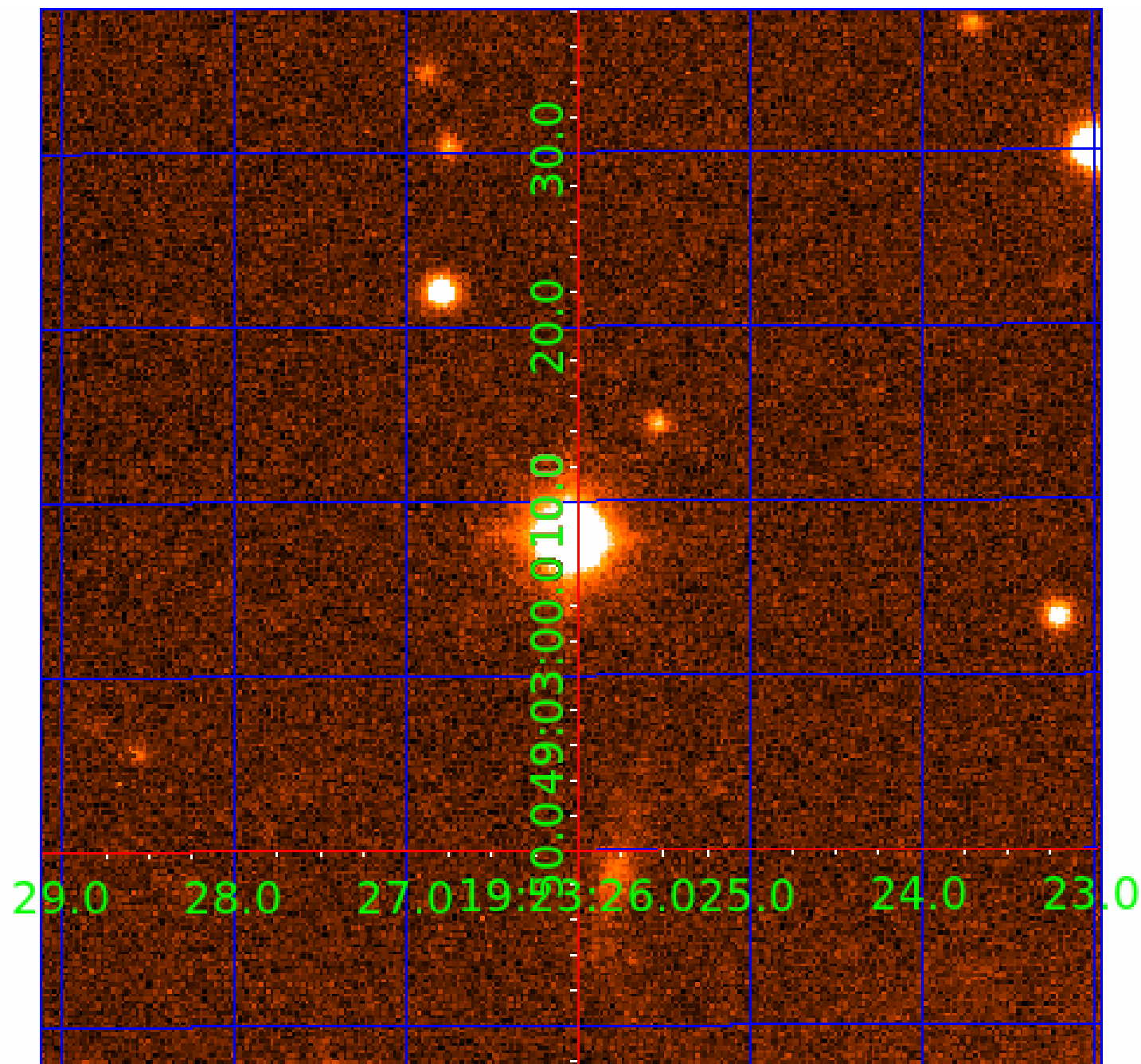


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011295085

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})
011295085-01	OBS	No	2.498129	131.661553	23.7	2.492	9.7	8.7	2.21	7117	1.27	6218.06
011295085-02	OBS	7436.01	2.497736	133.788409	22.0	2.838	9.9	8.3	2.21	7117	1.30	6219.36
011295085-03	OBS	No	2.498374	132.467865	12.4	8.157	8.7	6.4	2.21	7117	0.90	6217.25
011295085-04	OBS	No	52.803749	169.081761	74.8	5.649	8.1	4.6	2.21	7117	2.19	106.39
011295085-05	OBS	No	149.792856	152.128771	180.0	3.655	7.2	7.7	2.21	7117	3.37	26.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011295085-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011295085-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
011295085-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
011295085-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011295085-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

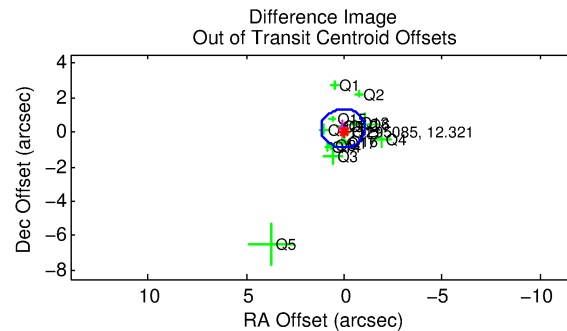
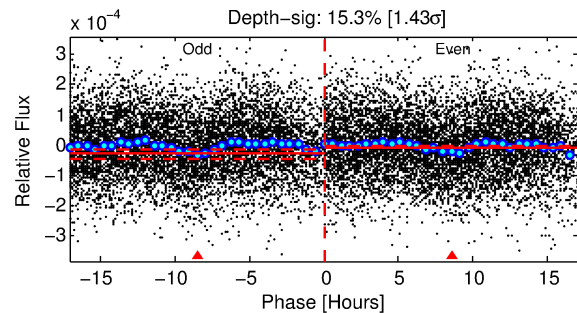
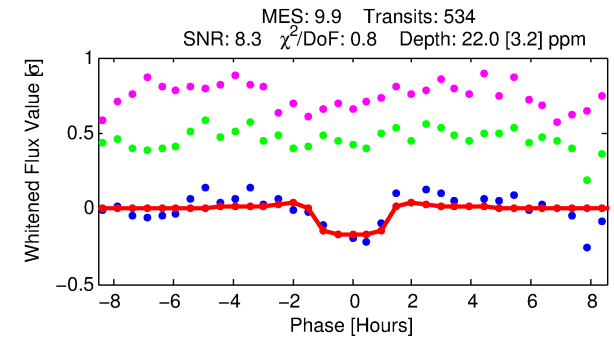
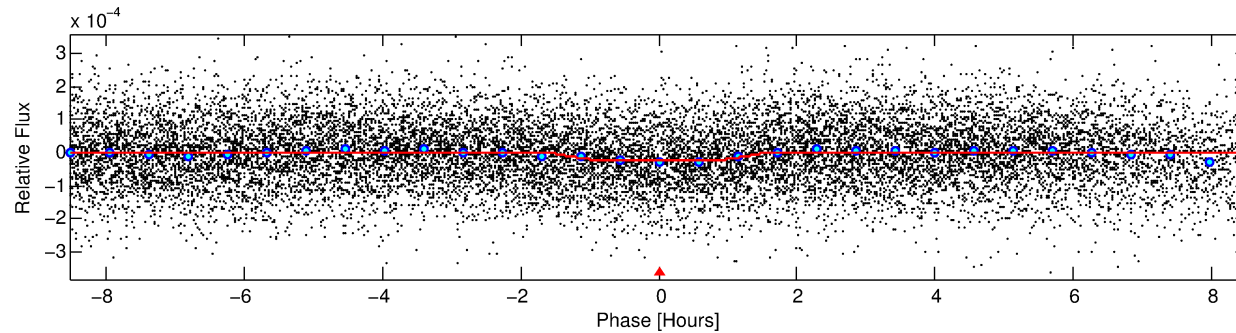
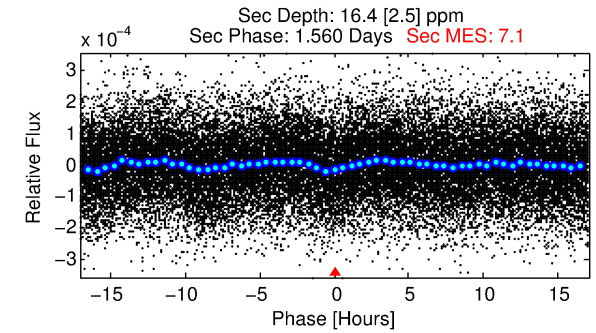
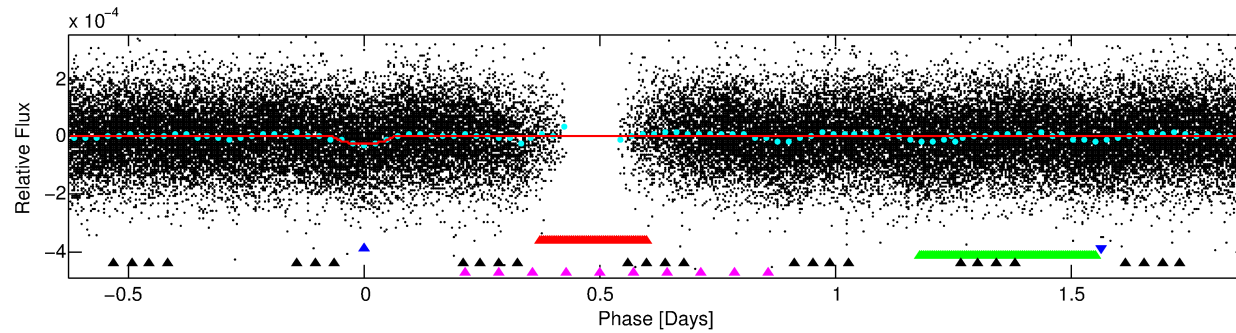
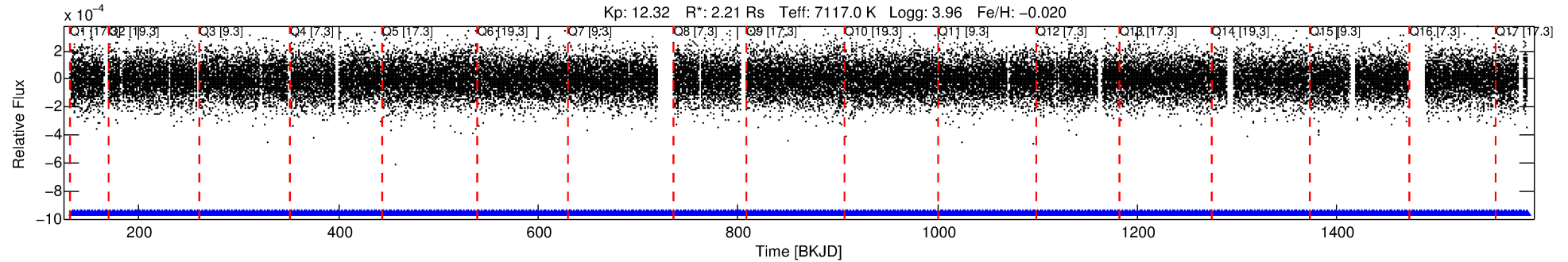
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011295085-02

No Significant Match Found

DV One-Page Summary

KIC: 11295085 Candidate: 2 of 5 Period: 2.498 d
KOI: K07436.01 Corr: 0.824



DV Fit Results:

Period = 2.49774 [0.00002] d
Epoch = 133.7884 [0.0037] BKJD
Rp/R* = 0.0054 [0.0014]
a/R* = 2.11 [2.67]
b = 0.97 [0.11]
Seff = 6219.36 [2423.31]
Teq = 2264 [221] K
Rp = 1.30 [0.47] Re
a = 0.0425 [0.0100] AU
Ag = 9.57 [6.18] [1.39σ]
Teffp = 6158 [852] K [4.42σ]

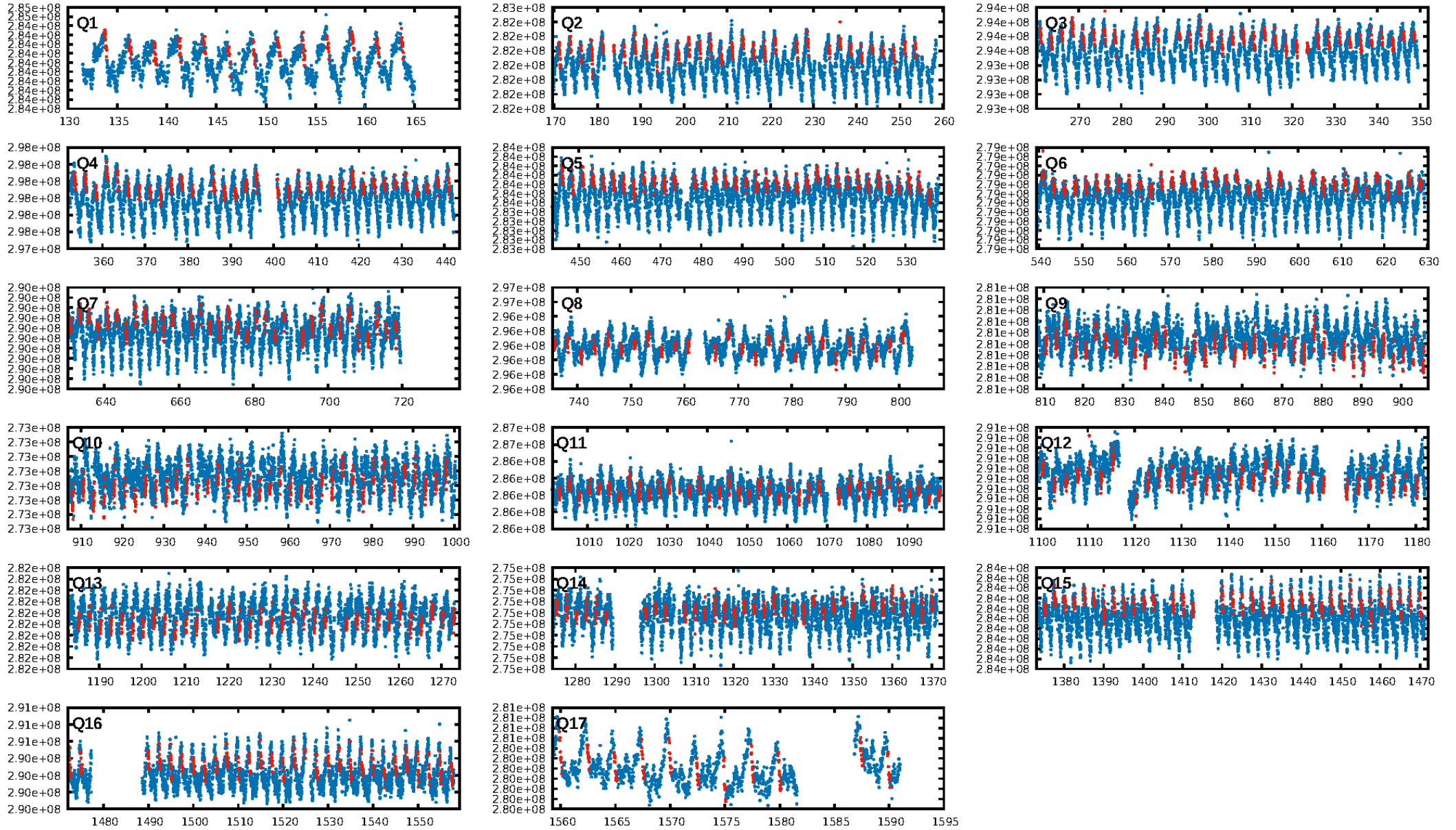
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.2% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.65e-16
RollingBand-fgt: 1.00 [510/510]
GhostDiagnostic-chr: 1.235
Centroid-sig: 32.5%
Centroid-so: 0.767 arcsec [0.98σ]
OotOffset-rm: 0.218 arcsec [0.58σ]
KicOffset-rm: 0.159 arcsec [0.33σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.76 [13/17]
DiffImageOverlap-fno: 1.00 [17/17]

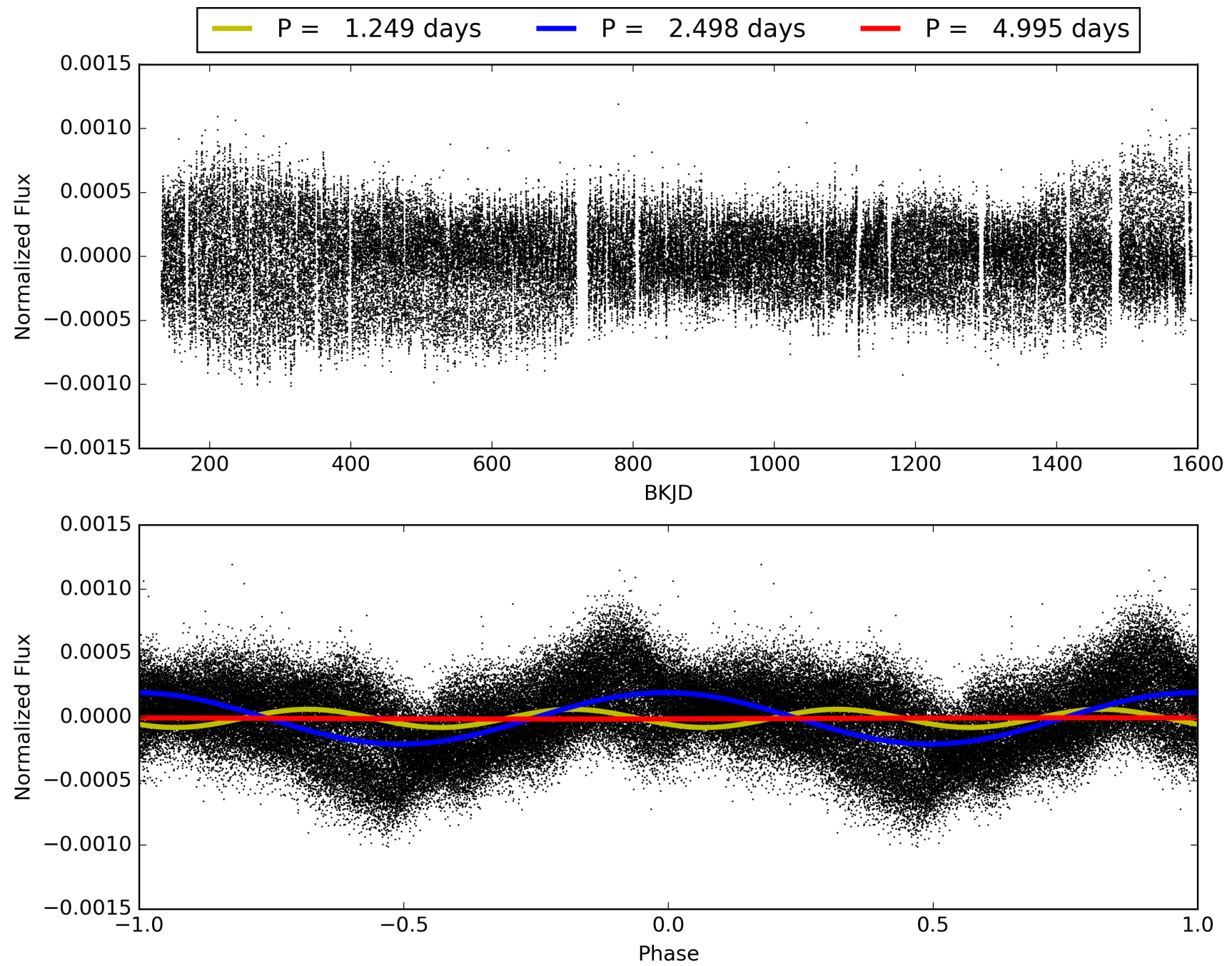
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:12:25 Z

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

TCE 011295085-02, PDC Light Curves

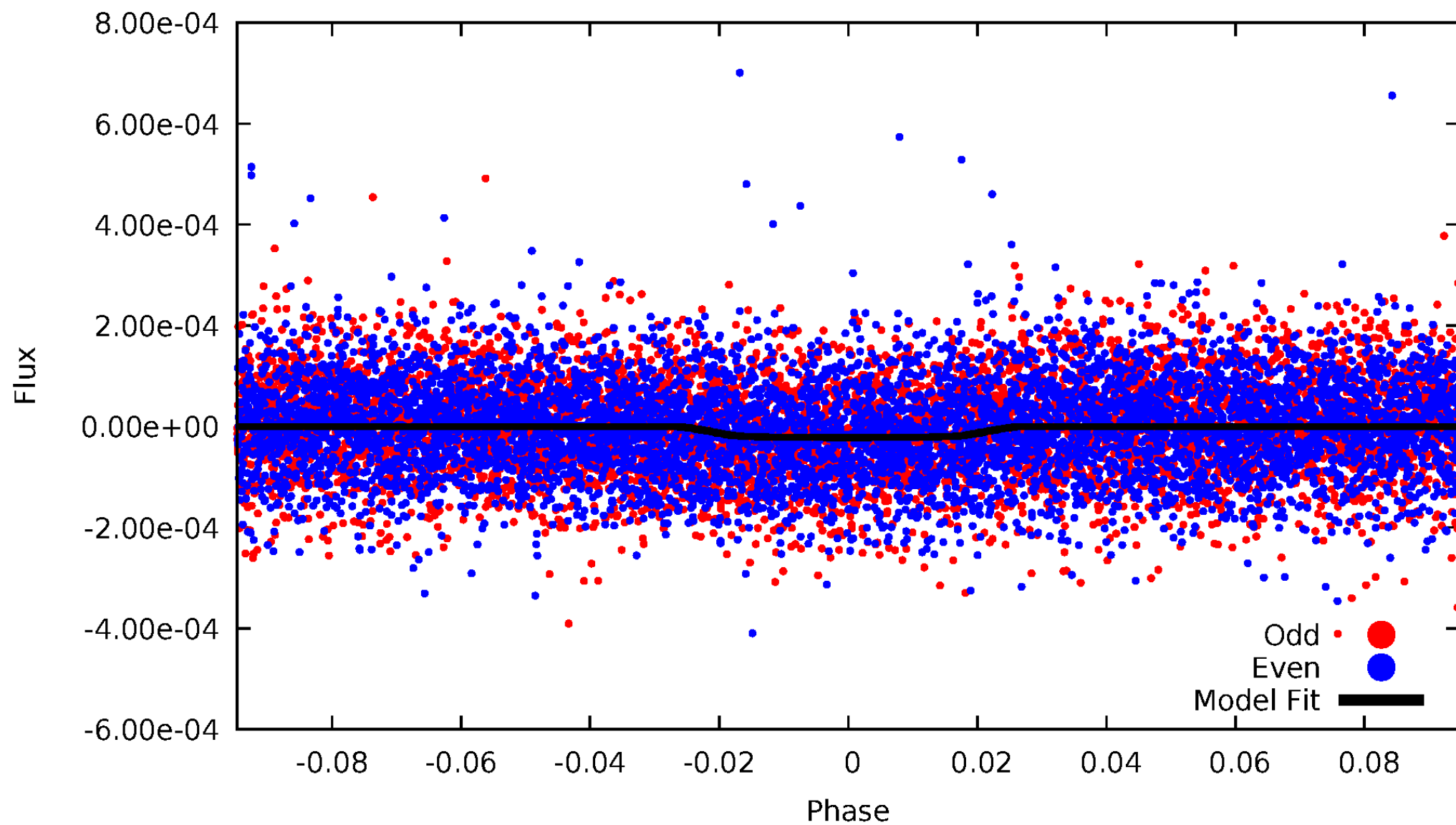


TCE 011295085-02



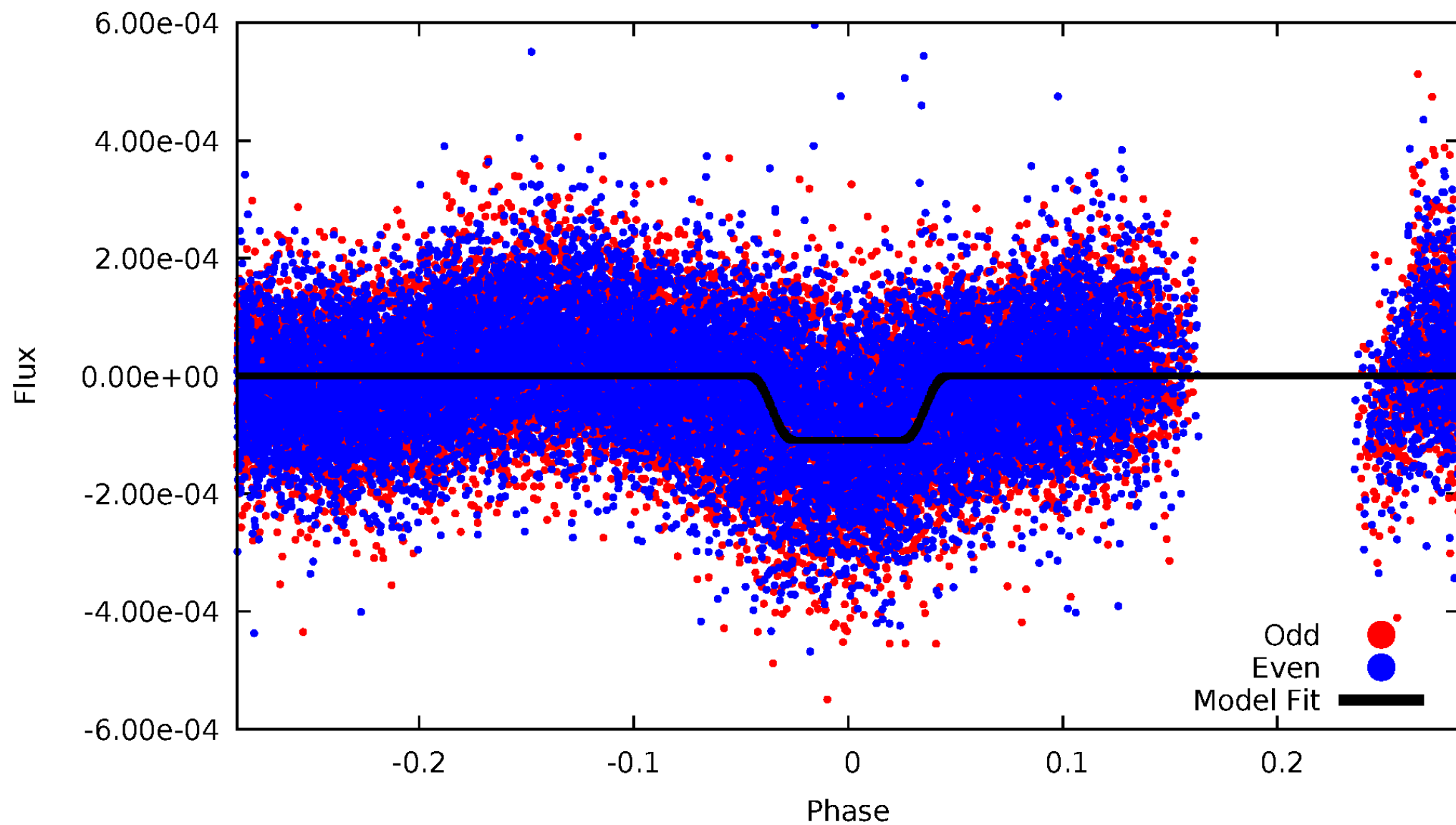
DV Odd/Even

TCE 011295085-02



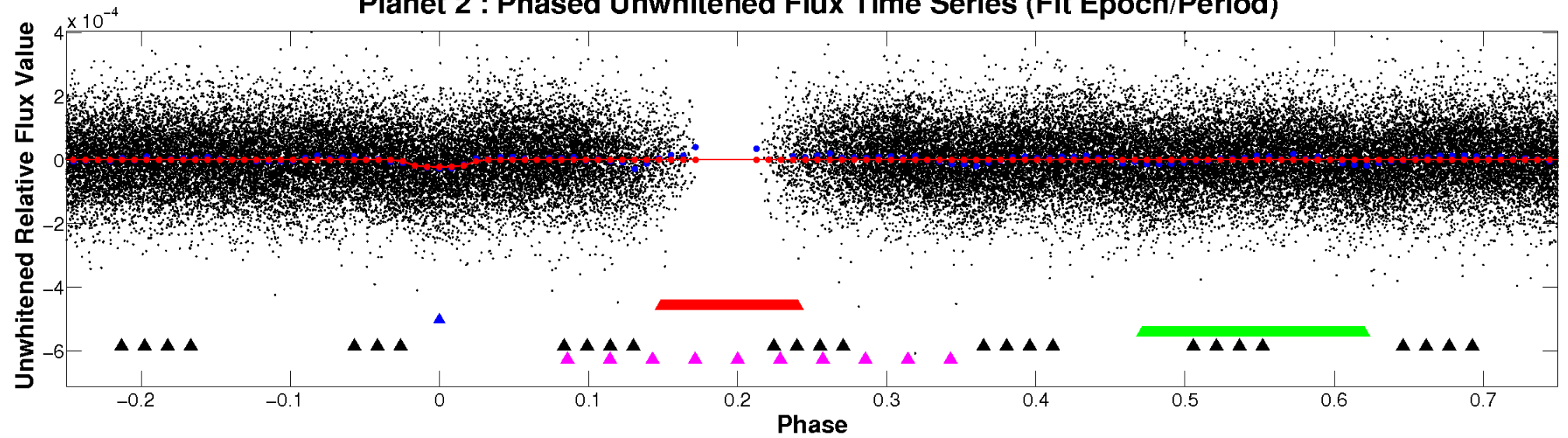
ALT Odd/Even

TCE 011295085-02

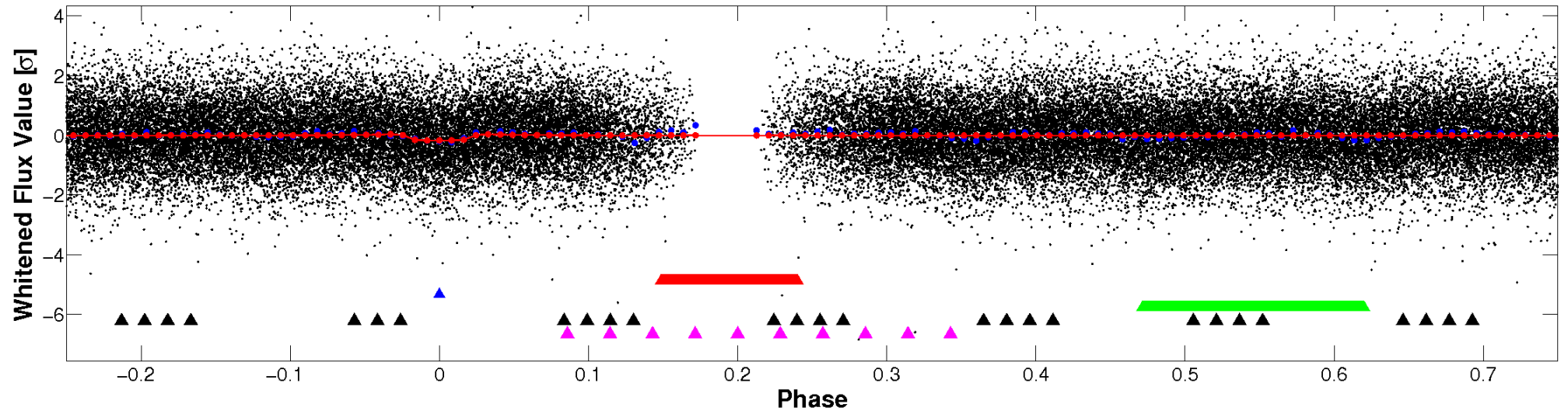


Non-Whitened Vs. Whitened Light Curve

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

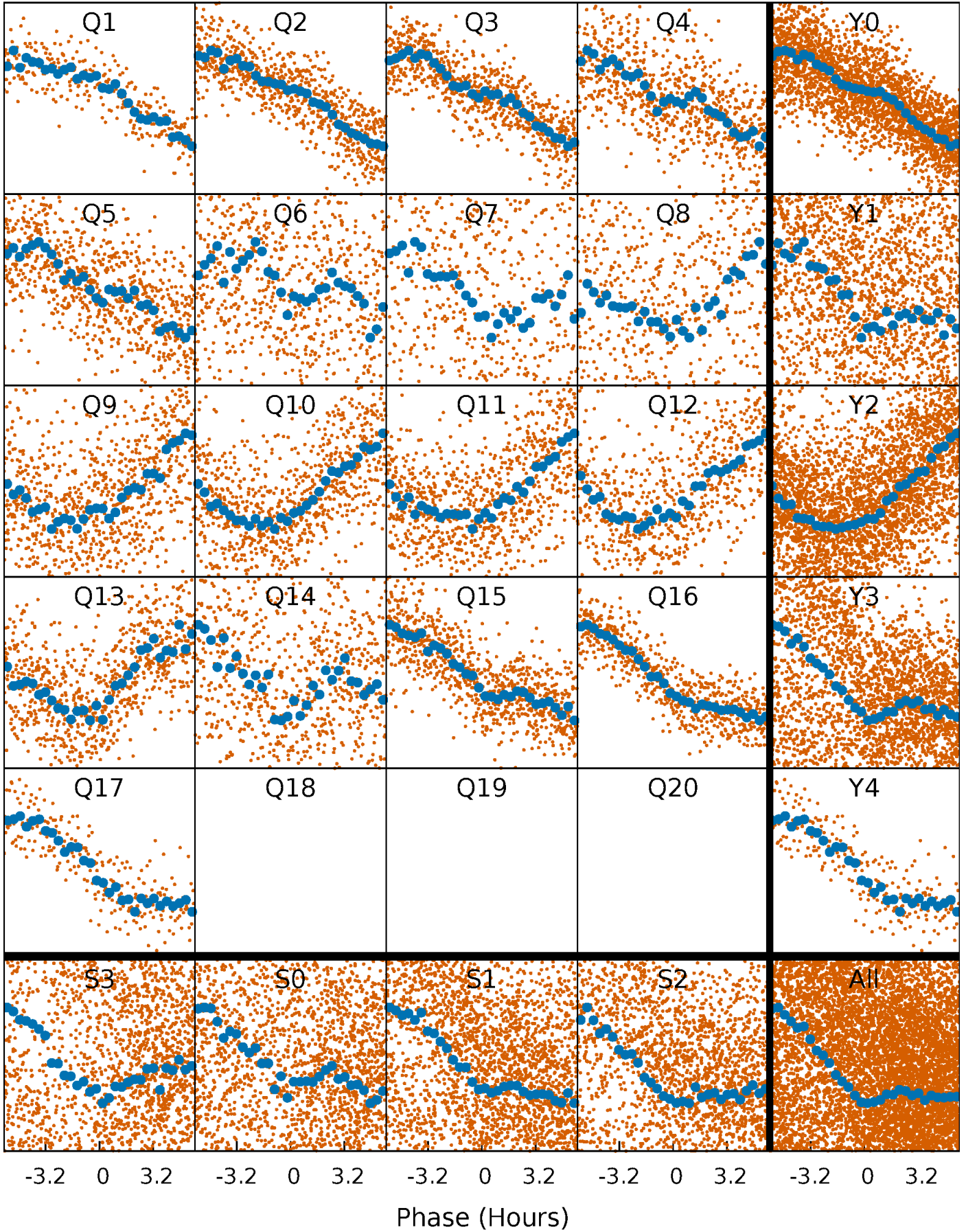


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



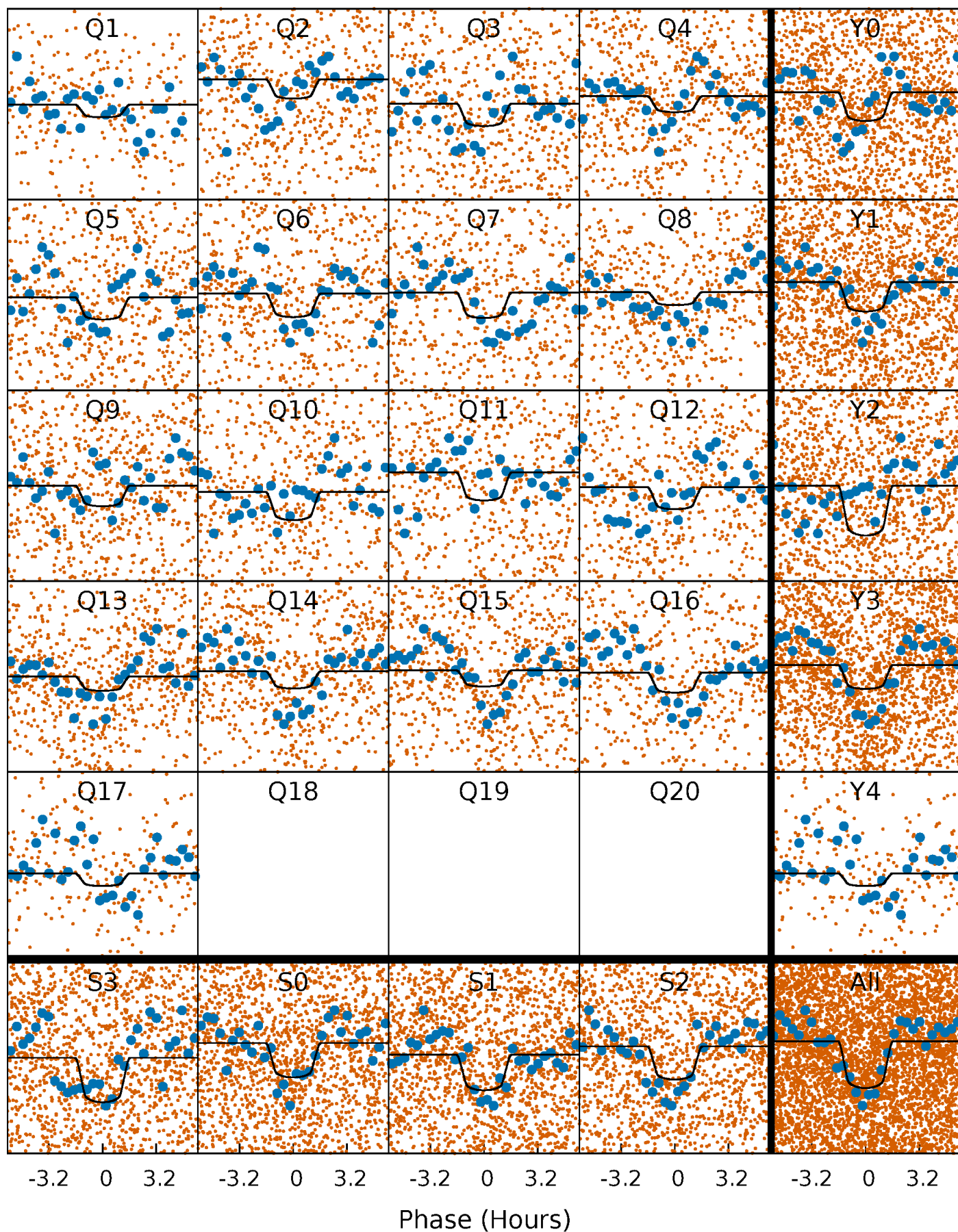
PDC Quarter-Phased Transit Curves

TCE 011295085-02 P= 2.497736 Days $T_0=133.788409$ (BKJD)



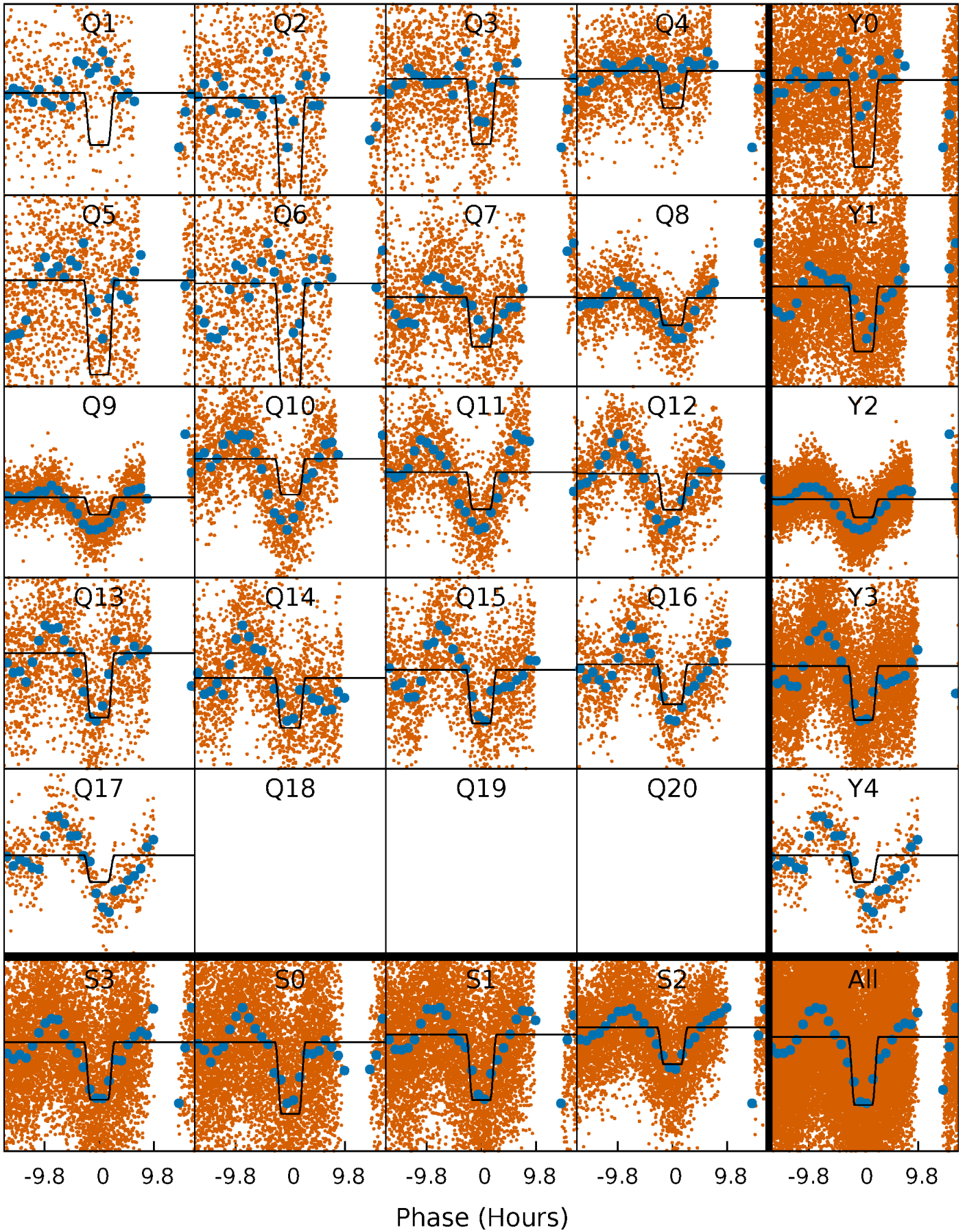
DV Quarter-Phased Transit Curves

TCE 011295085-02 P= 2.497736 Days $T_0=133.788409$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

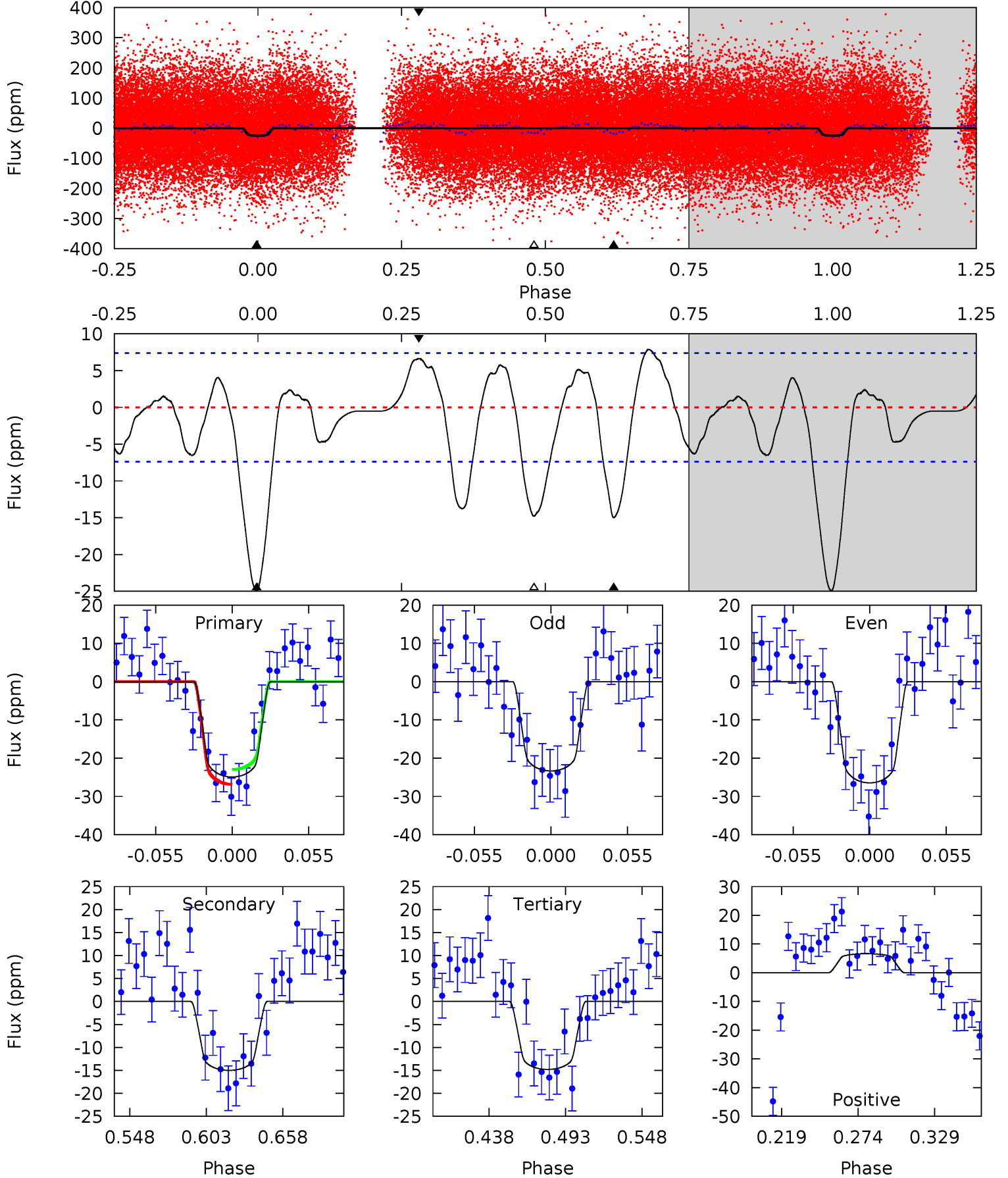
TCE 011295085-02 P= 2.497859 Days $T_0=133.737607$ (BKJD)



DV Model-Shift Uniqueness Test

011295085-02, P = 2.497736 Days, E = 131.290673 Days

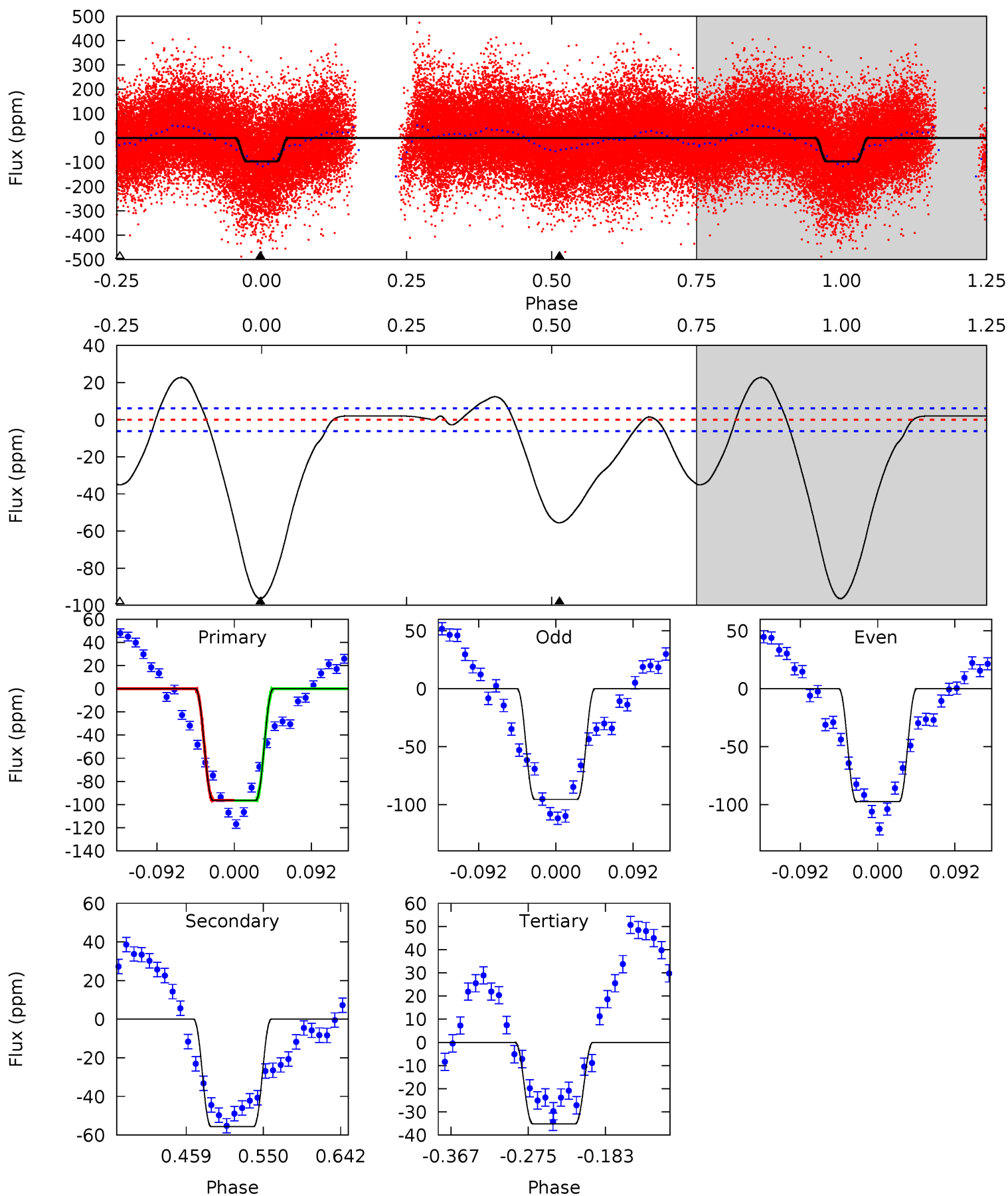
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.8	9.53	9.40	4.20	4.69	1.92	3.58	6.42	11.6	0.13	5.33	0.99	0.90	0.24	1.24



Alt Model-Shift Uniqueness Test

011295085-02, P = 2.497859 Days, E = 131.239748 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
71.6	41.2	26.1	0	4.58	1.69	11.2	45.5	71.6	15.2	41.2	0.75	1.04	0.19	0.15



Stellar Parameters For KIC 011295085

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7117^{+170}_{-255}	$3.964^{+0.208}_{-0.128}$	$-0.020^{+0.250}_{-0.300}$	$2.211^{+0.464}_{-0.568}$	$1.641^{+0.179}_{-0.268}$	$0.214^{+0.232}_{-0.082}$
	+2%/-4%	+5%/-3%	+1250%/-1500%	+21%/-26%	+11%/-16%	+109%/-38%
Source	PHO1	FLK73	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 011295085-02 / KOI 7436.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-15 ± 2	$1.27^{+0.38}_{-0.37}$	3118^{+204}_{-230}	5914^{+974}_{-693}	$9.424^{+8.442}_{-4.047}$
Alt.	-56 ± 1	$2.45^{+0.51}_{-0.44}$	3131^{+192}_{-211}	5885^{+523}_{-364}	$9.206^{+4.301}_{-2.941}$

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

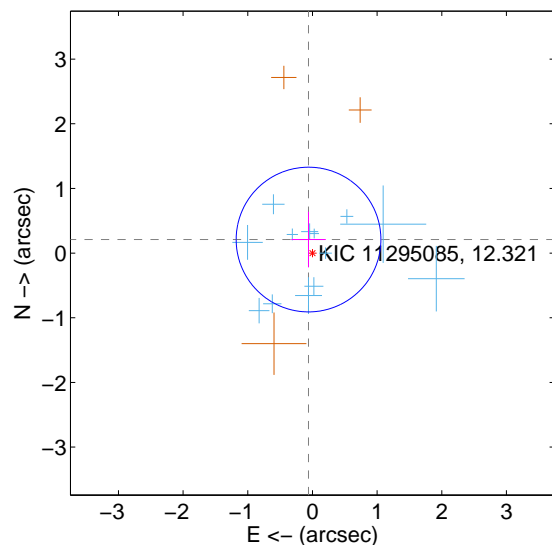
Supplemental centroid analysis for 011295085-02. Kepler magnitude: 12.32. Transit SNR 8.32

There are 13 quarters with good PRF difference image offsets

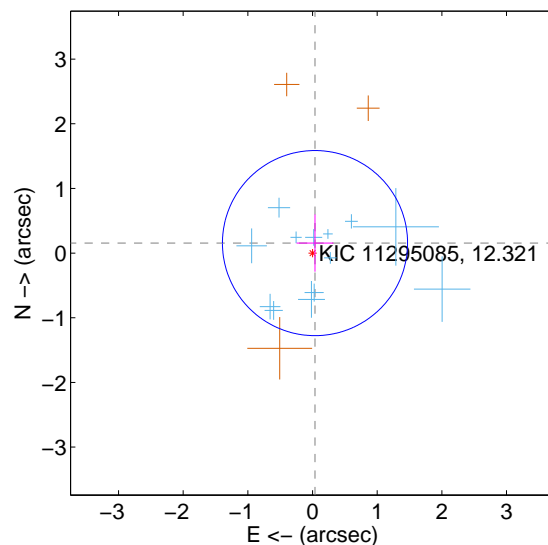
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.218 ± 0.373	0.58	0.060 ± 0.267	0.210 ± 0.430
PRF-fit source offset from KIC position	0.159 ± 0.477	0.33	-0.038 ± 0.285	0.155 ± 0.443
photometric centroid source offset	0.77 ± 0.78	0.98	0.31 ± 0.73	-0.70 ± 0.79

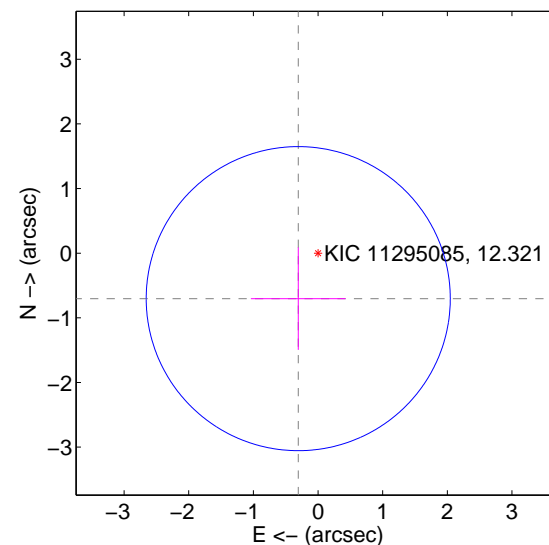
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

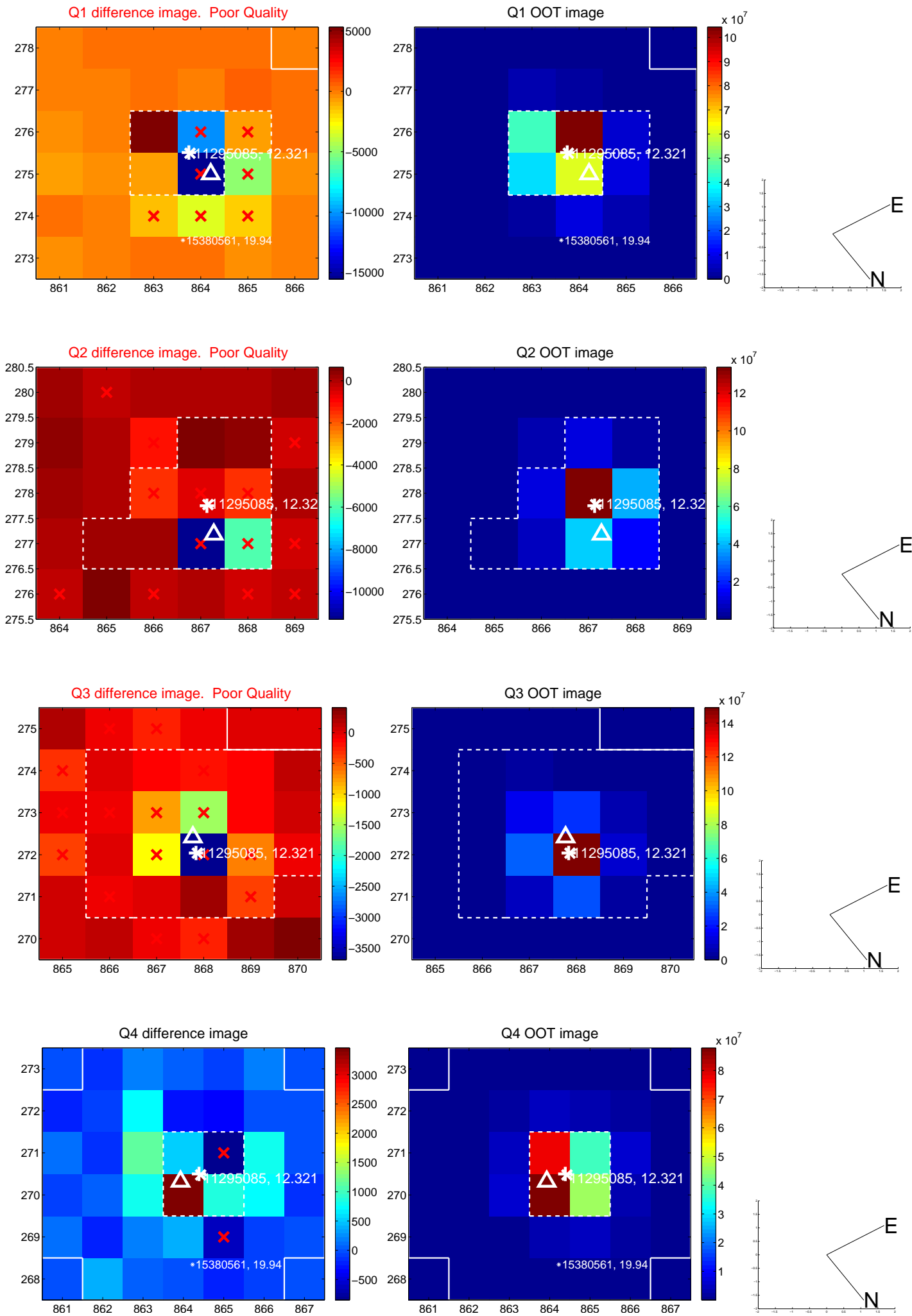


offset from photometric centroids

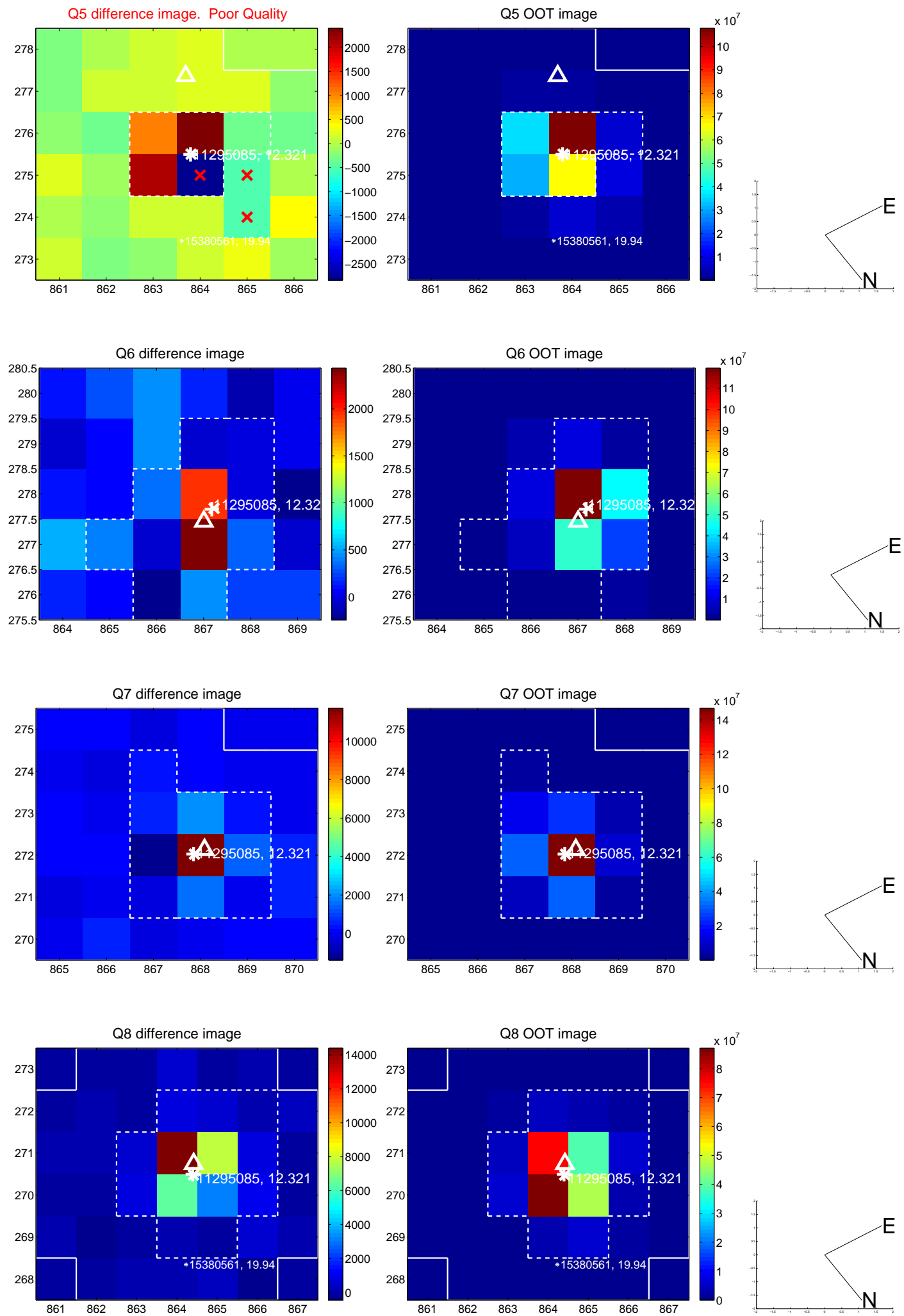


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

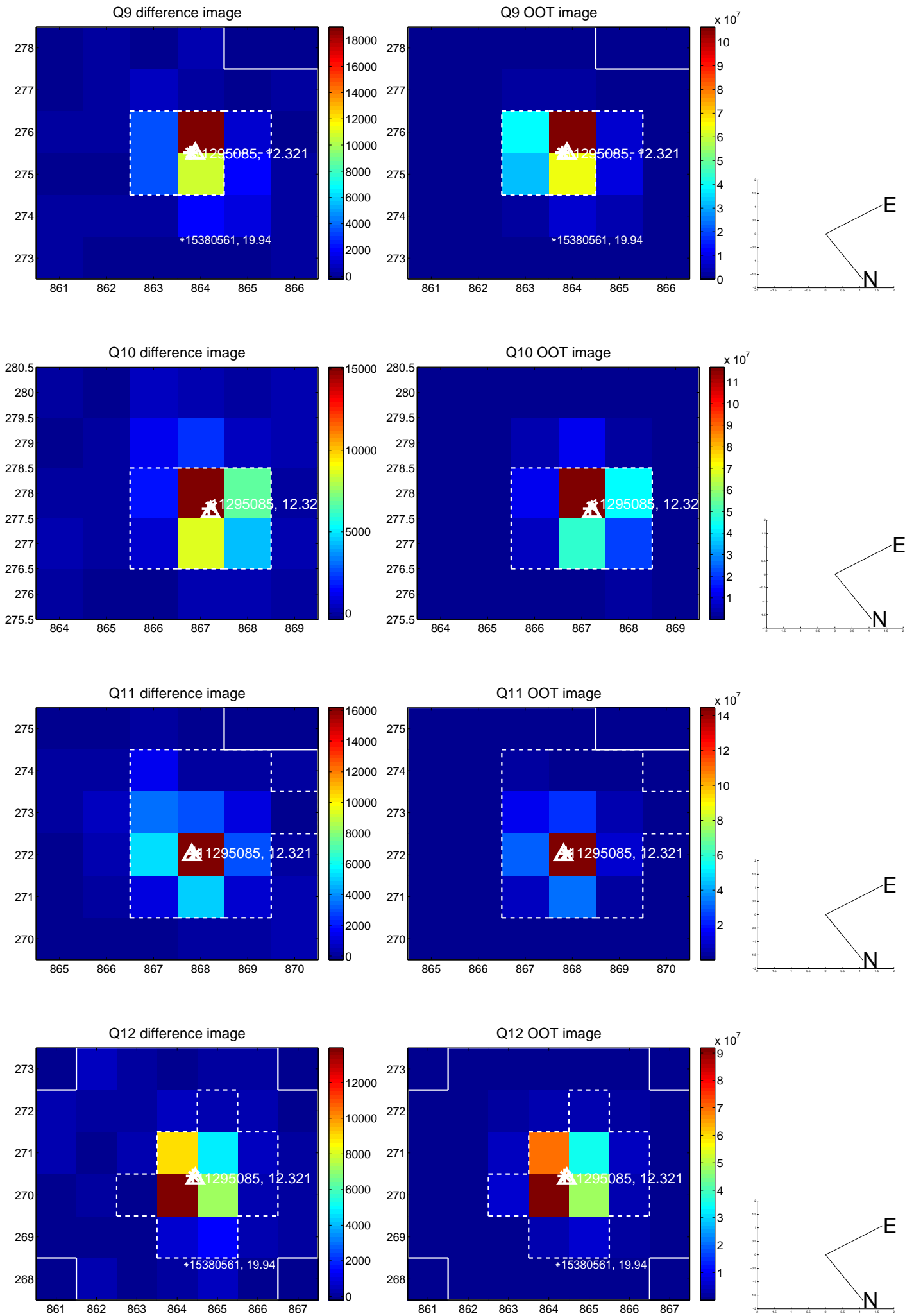
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



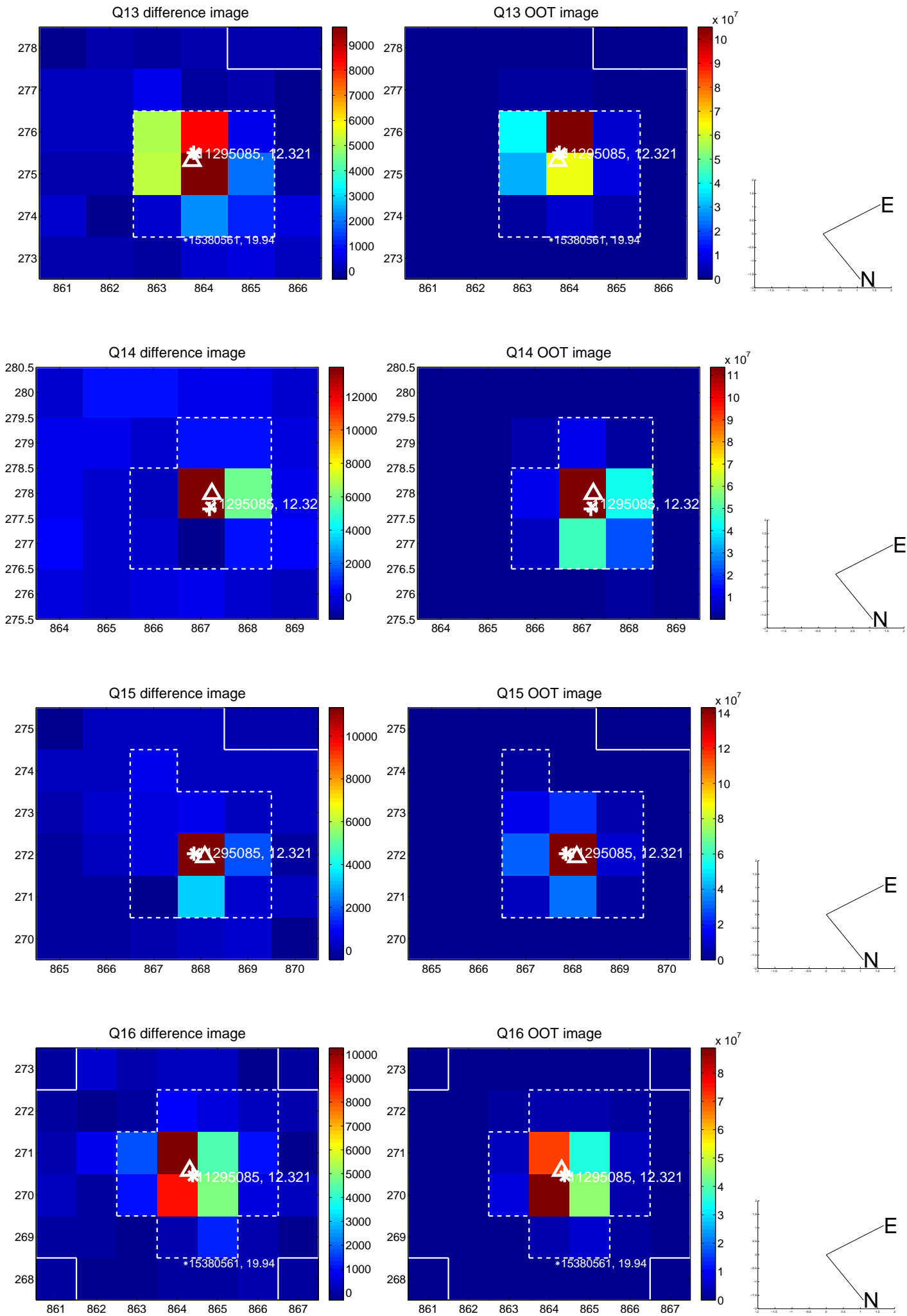
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



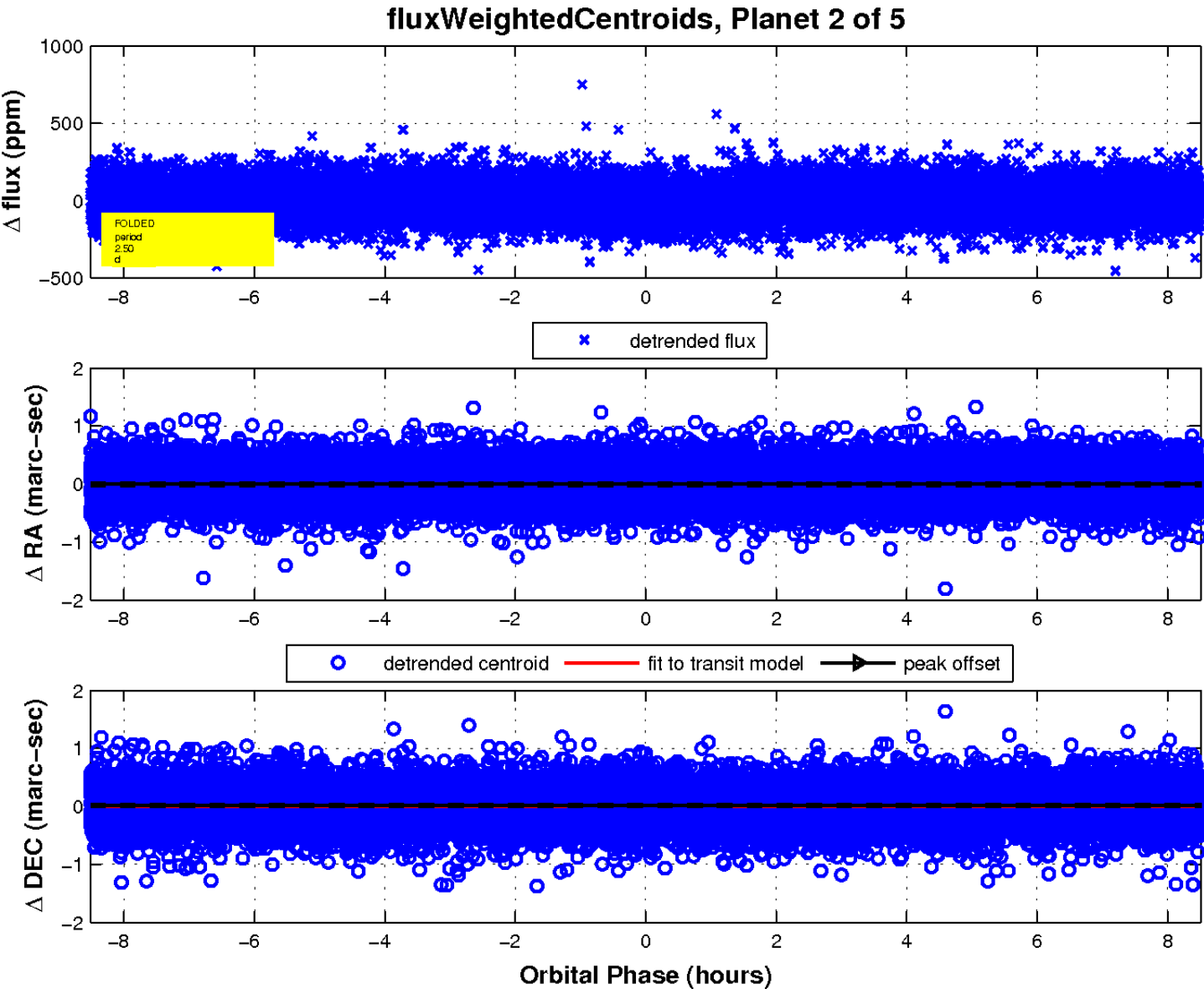
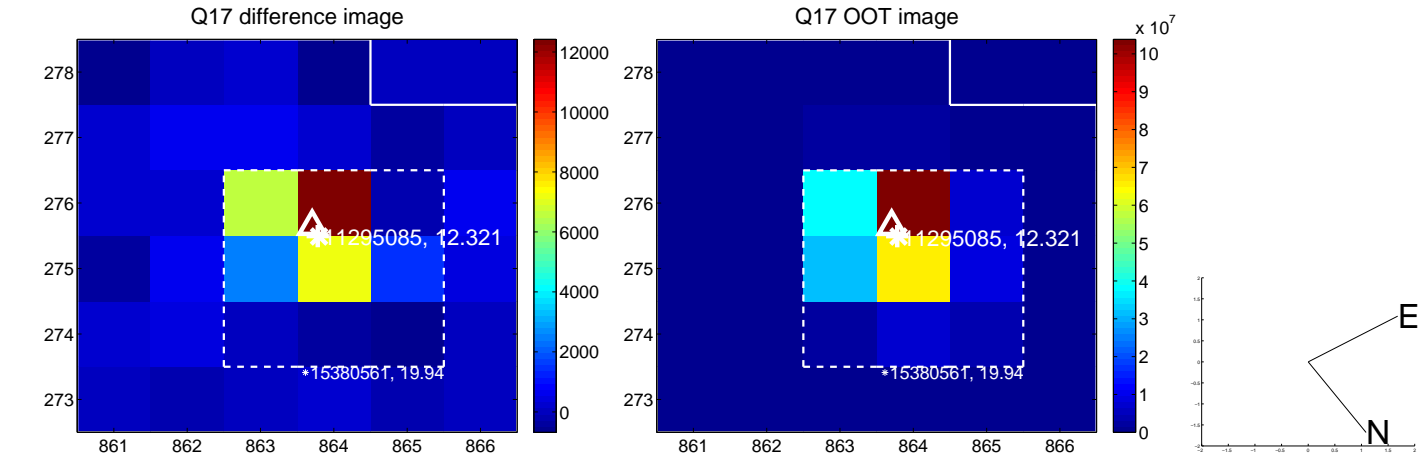
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

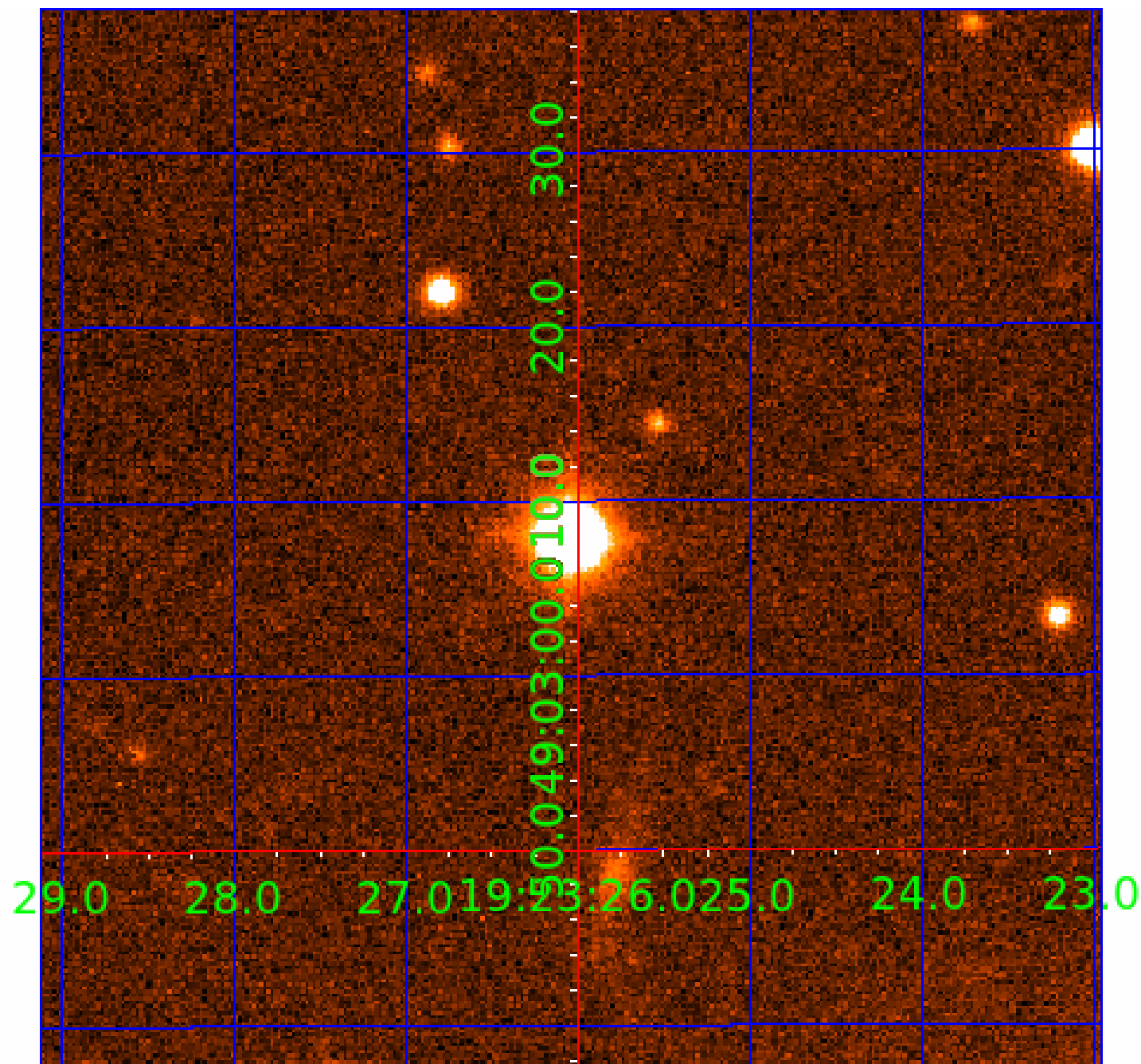


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011295085

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})
011295085-01	OBS	No	2.498129	131.661553	23.7	2.492	9.7	8.7	2.21	7117	1.27	6218.06
011295085-02	OBS	7436.01	2.497736	133.788409	22.0	2.838	9.9	8.3	2.21	7117	1.30	6219.36
011295085-03	OBS	No	2.498374	132.467865	12.4	8.157	8.7	6.4	2.21	7117	0.90	6217.25
011295085-04	OBS	No	52.803749	169.081761	74.8	5.649	8.1	4.6	2.21	7117	2.19	106.39
011295085-05	OBS	No	149.792856	152.128771	180.0	3.655	7.2	7.7	2.21	7117	3.37	26.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011295085-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011295085-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
011295085-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
011295085-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011295085-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

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

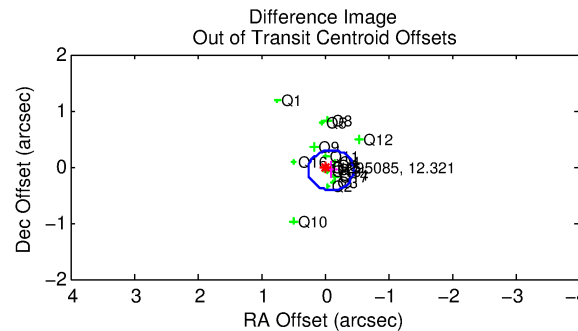
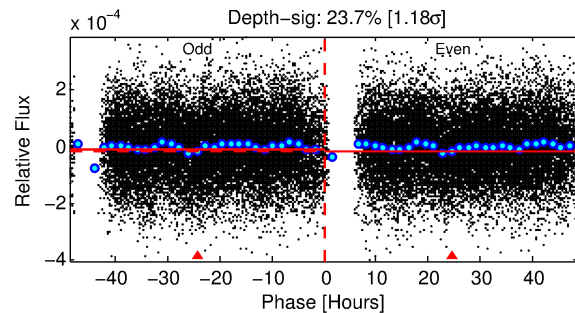
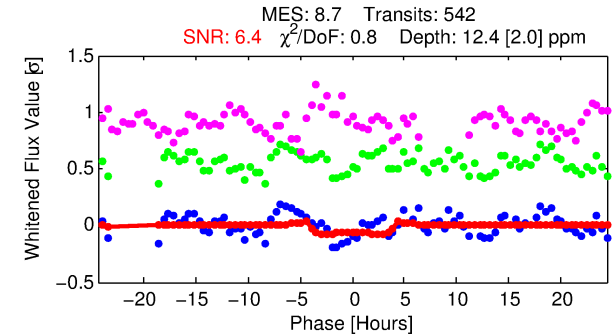
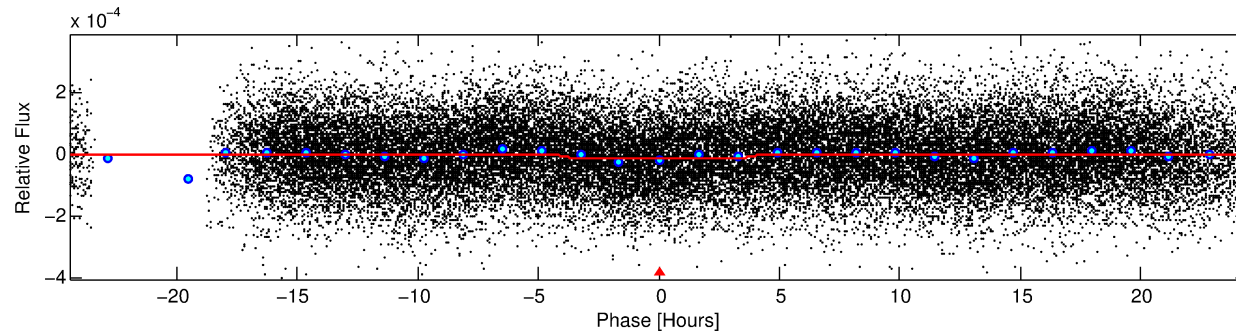
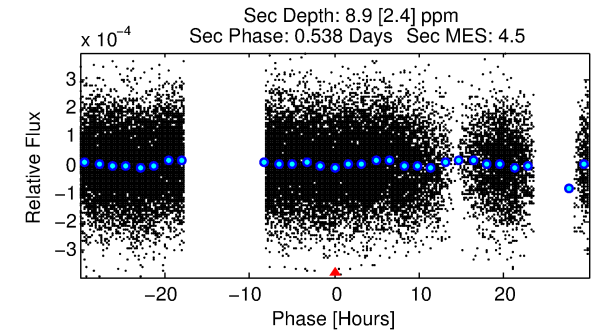
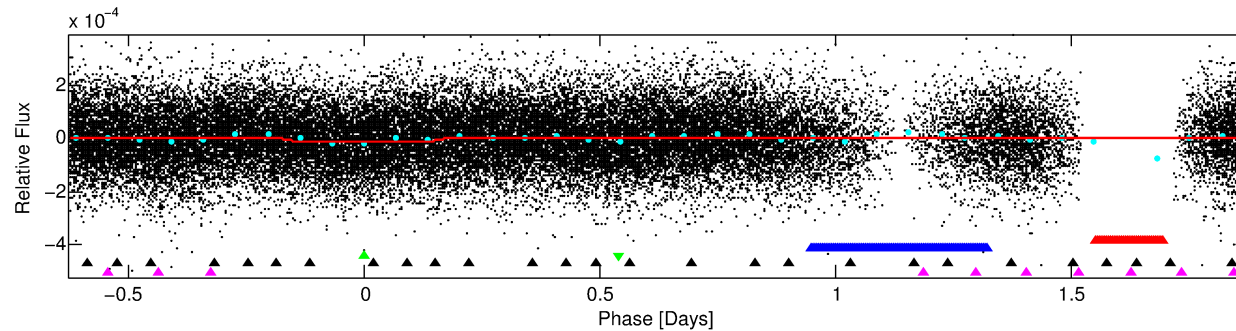
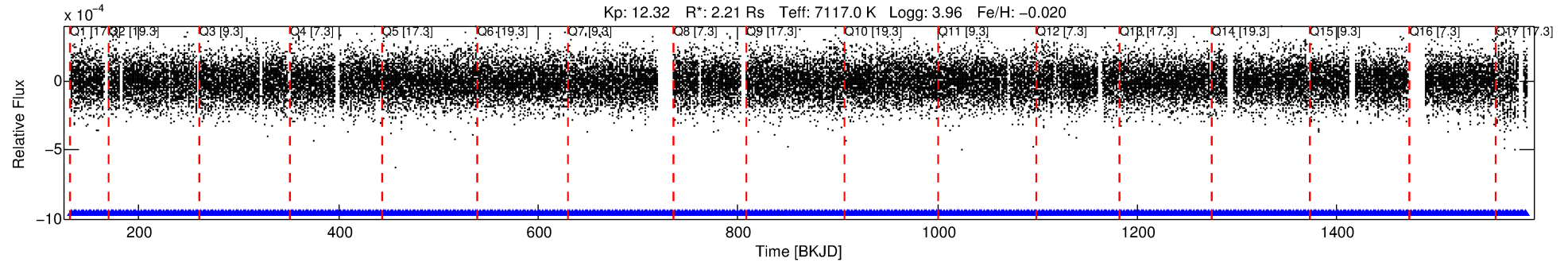
Ephemeris Match Information For 011295085-03

No Significant Match Found

DV One-Page Summary

KIC: 11295085 Candidate: 3 of 5 Period: 2.498 d

KOI: K07436 Corr: No Ephemeris Match



DV Fit Results:

Period = 2.49837 [0.00004] d
Epoch = 132.4679 [0.0076] BKJD
 R_p/R^* = 0.0037 [0.0009]
 a/R^* = 1.42 [1.03]
 b = 0.89 [0.33]
 S_{eff} = 6217.25 [2422.49]
 T_{eq} = 2264 [221] K
 R_p = 0.90 [0.32] R_e
 a = 0.0425 [0.0100] AU
 A_g = 11.03 [7.28] [1.38σ]
 T_{eff} = 6379 [909] K [4.40σ]

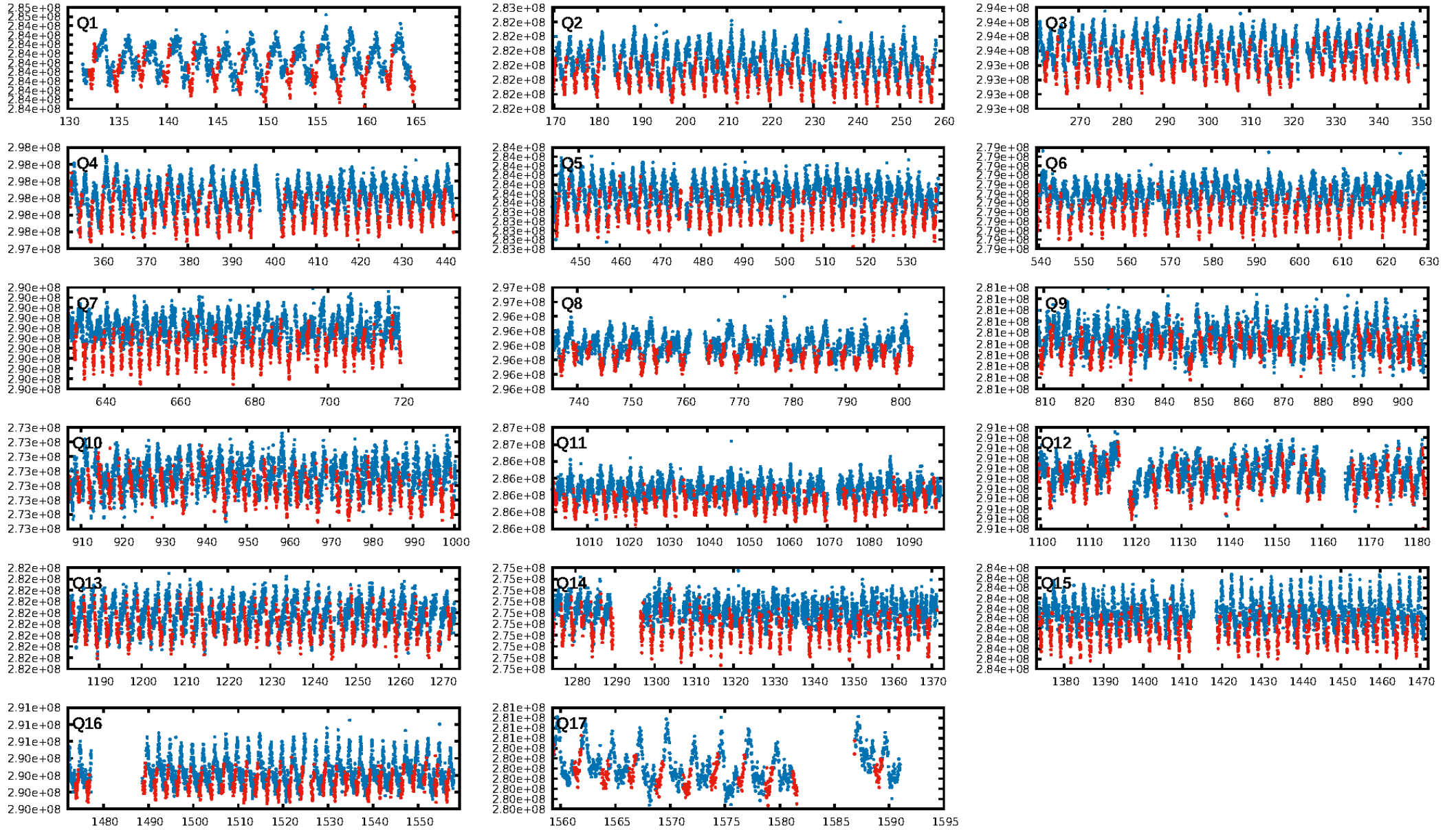
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: 100.0% [121.68σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.22e-13
RollingBand-fgt: 1.00 [518/518]
GhostDiagnostic-chr: 0.4824
Centroid-sig: 0.2%
Centroid-so: 1.780 arcsec [2.08σ]
OotOffset-rm: 0.114 arcsec [0.96σ]
KicOffset-rm: 0.219 arcsec [1.90σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

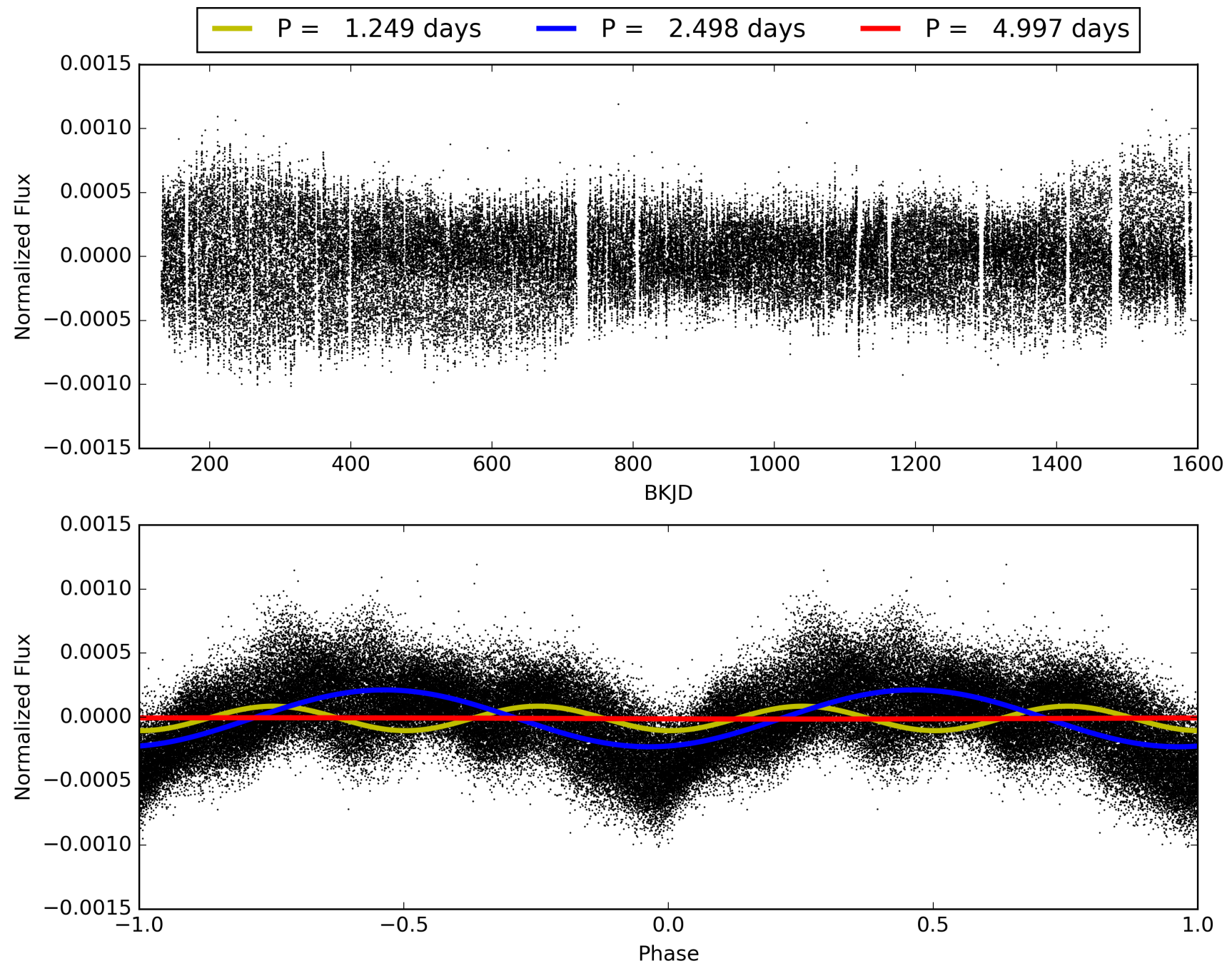
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:12:34 Z

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

TCE 011295085-03, PDC Light Curves

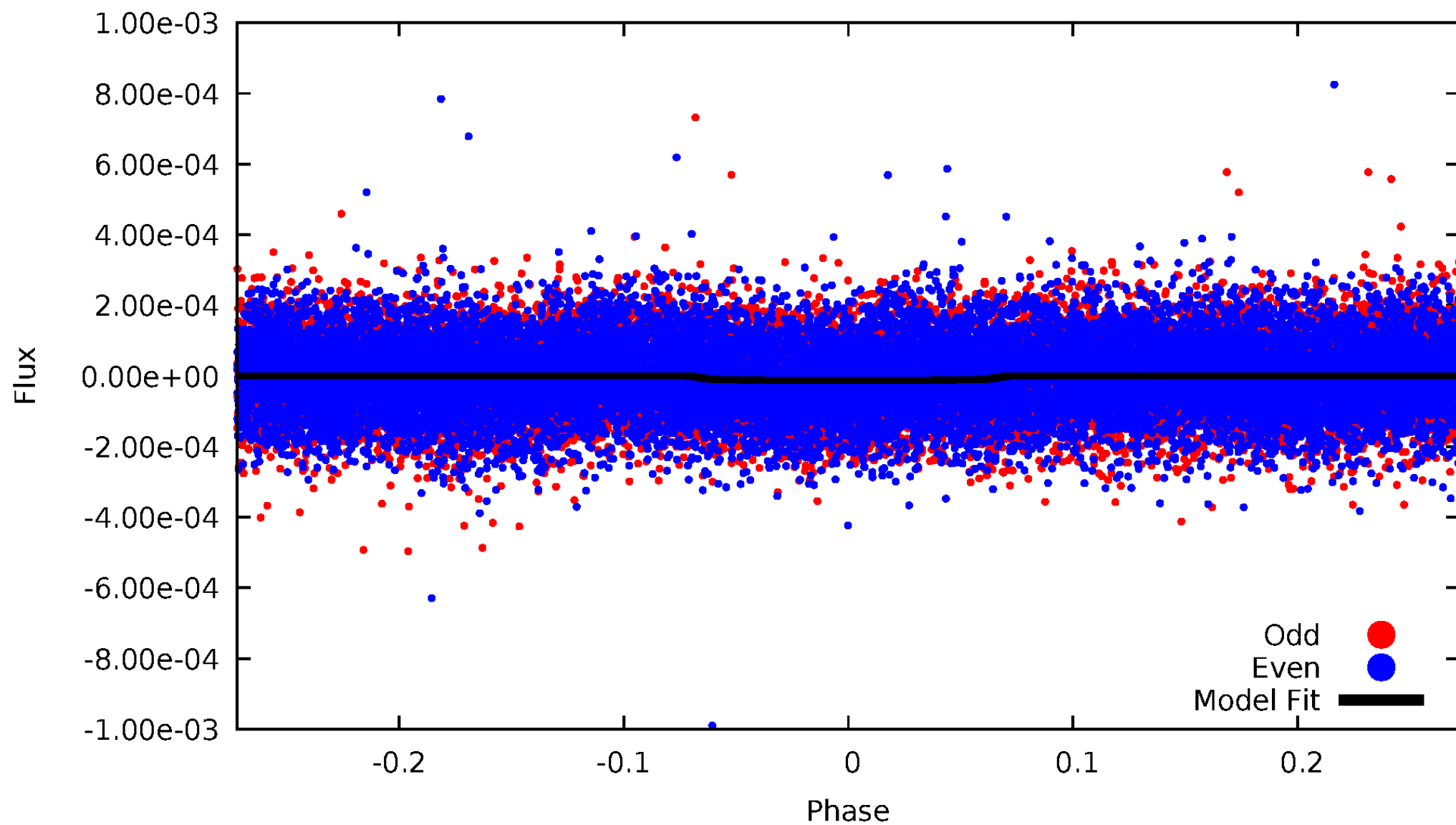


TCE 011295085-03



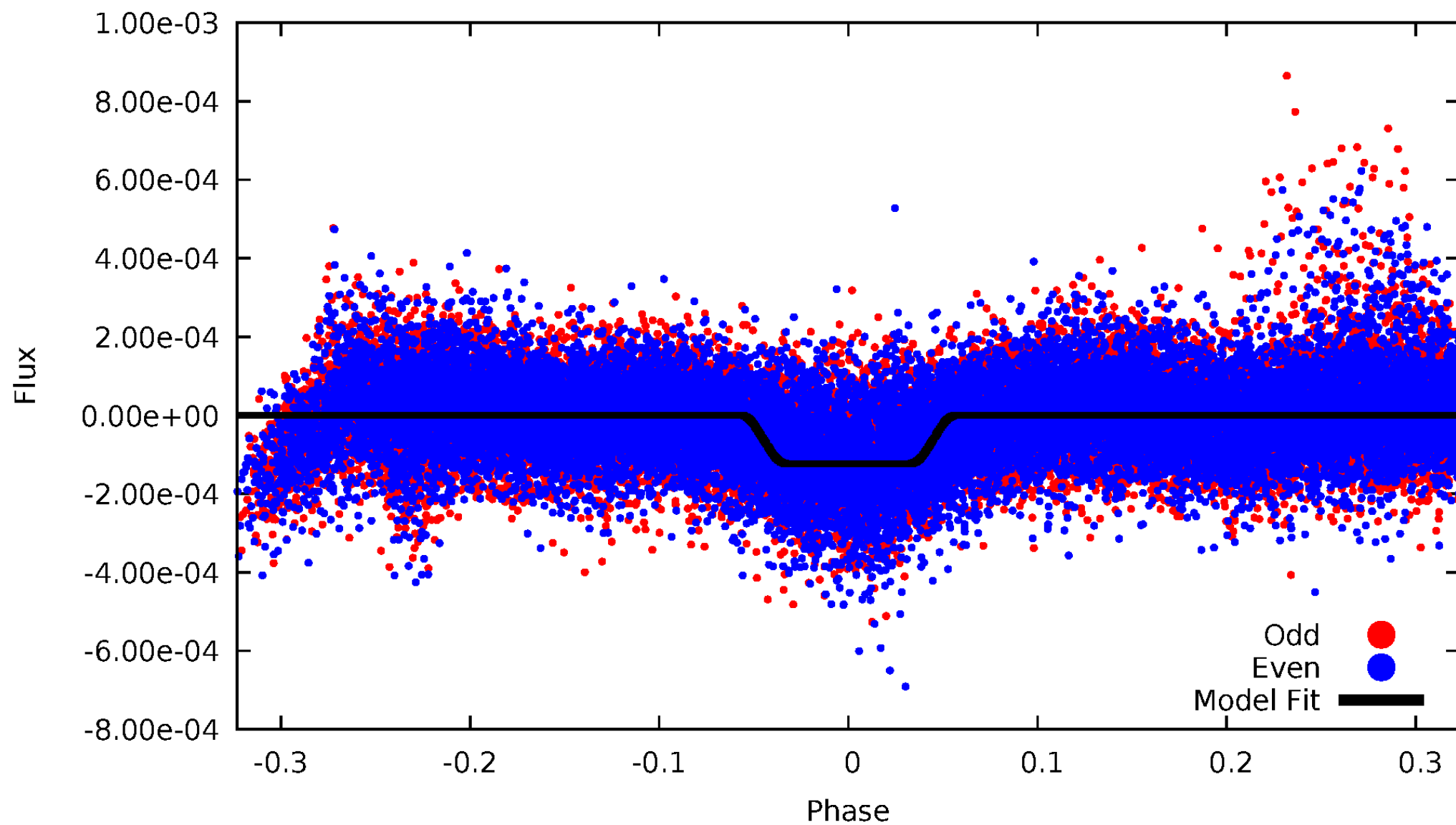
DV Odd/Even

TCE 011295085-03



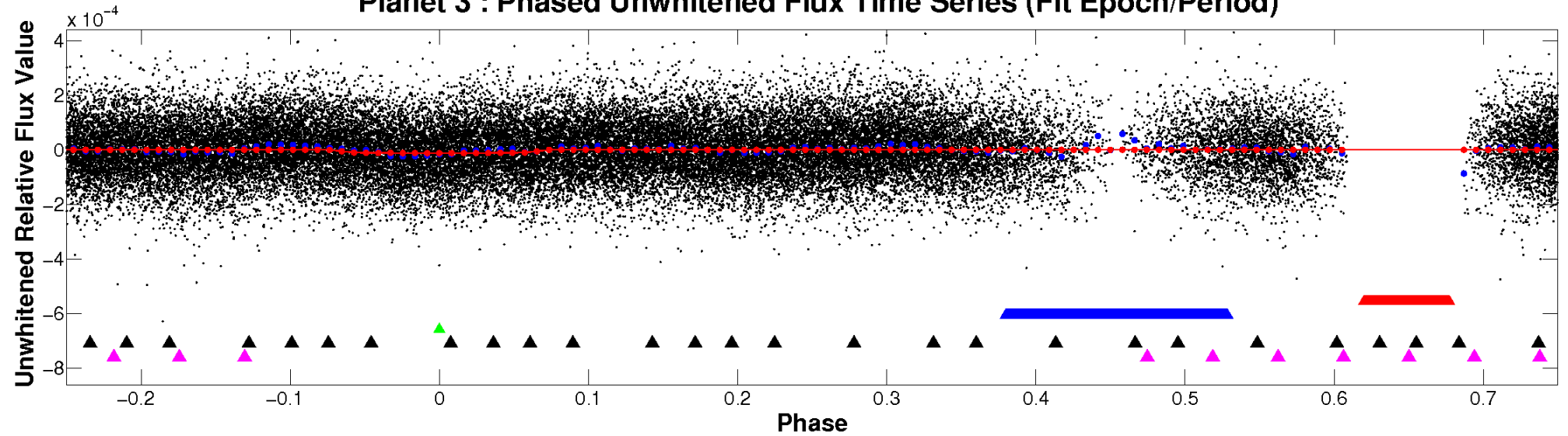
ALT Odd/Even

TCE 011295085-03

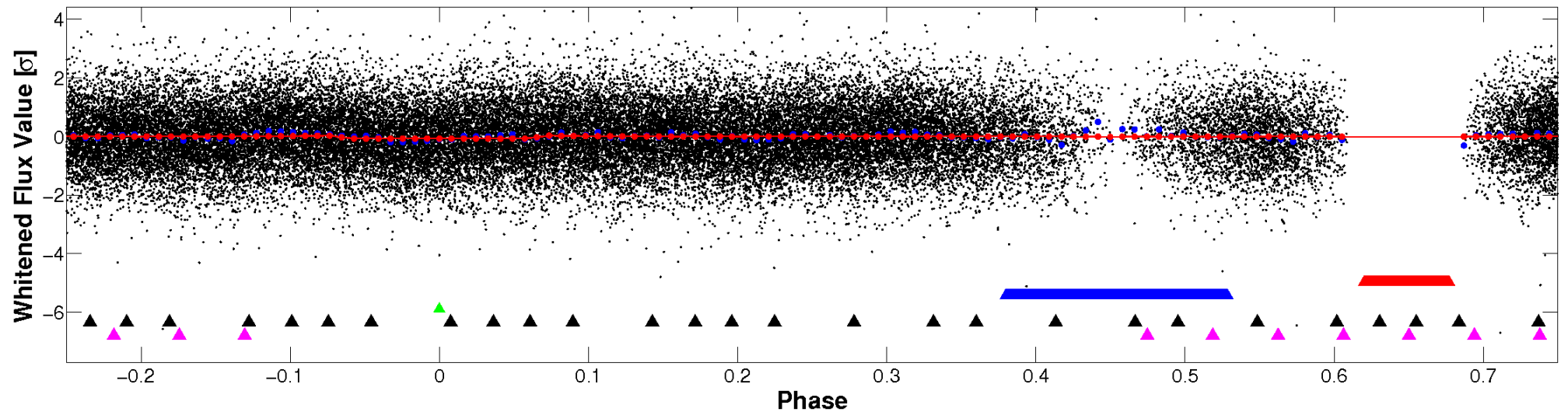


Non-Whitened Vs. Whitened Light Curve

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

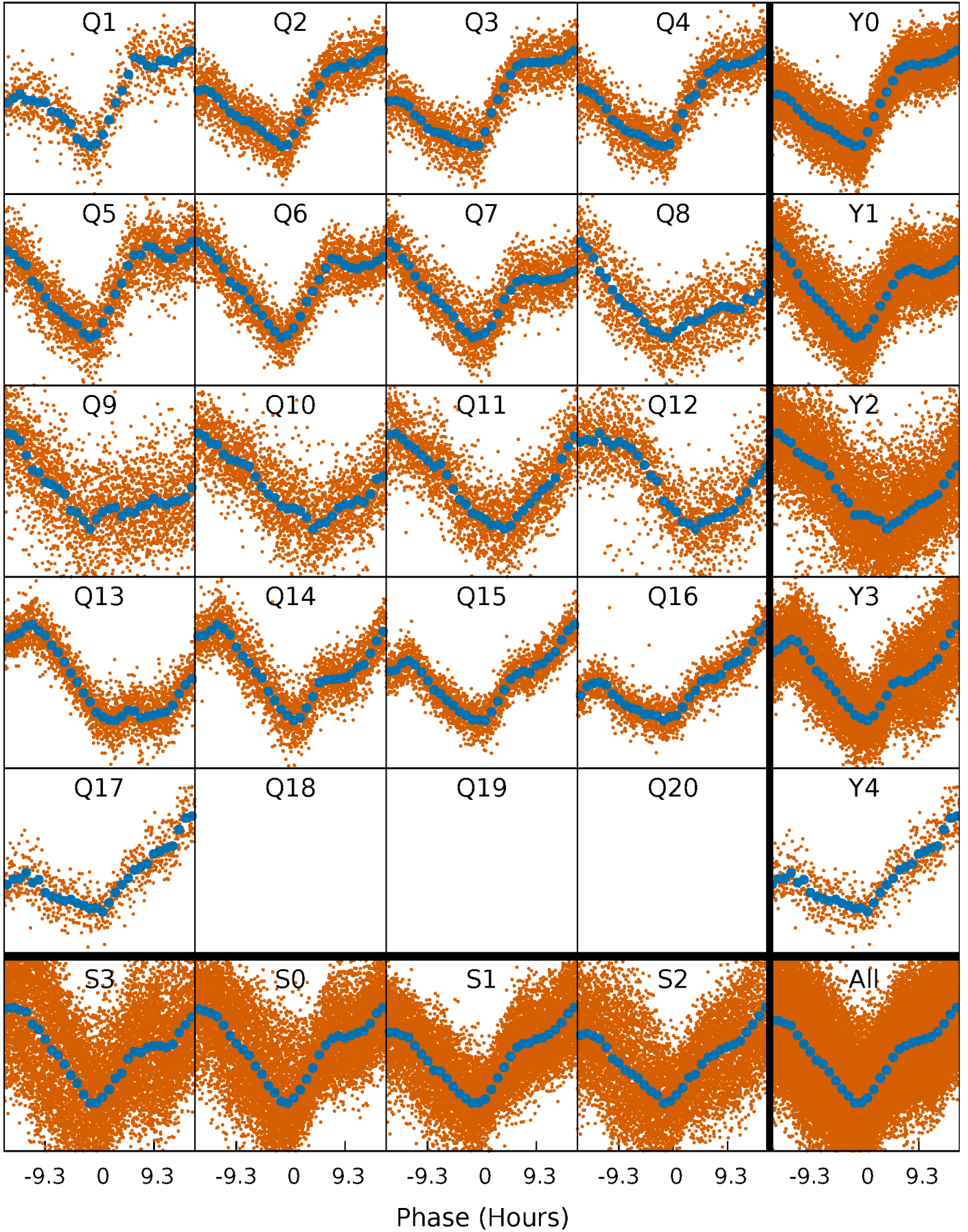


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



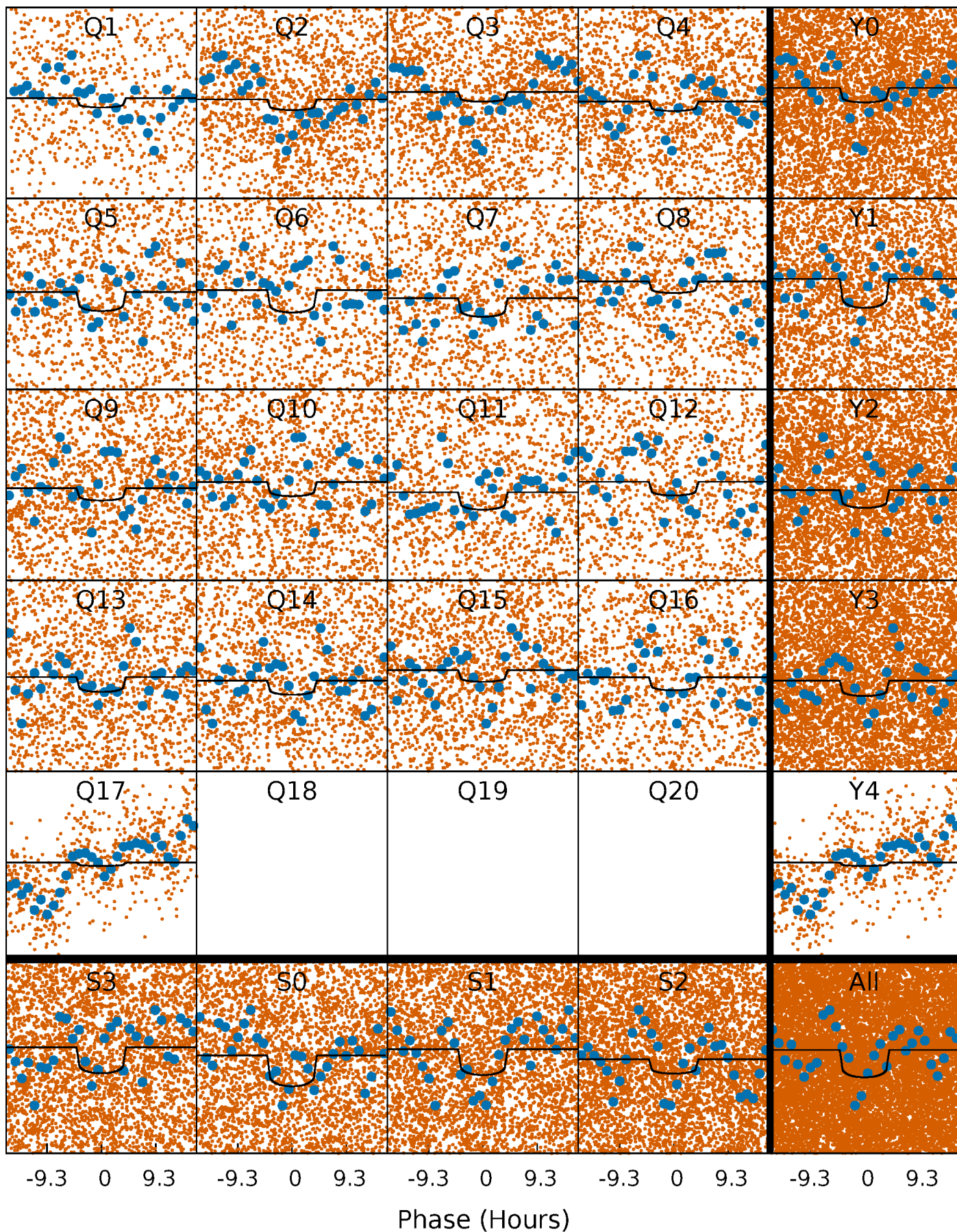
PDC Quarter-Phased Transit Curves

TCE 011295085-03 P= 2.498374 Days $T_0=132.467865$ (BKJD)



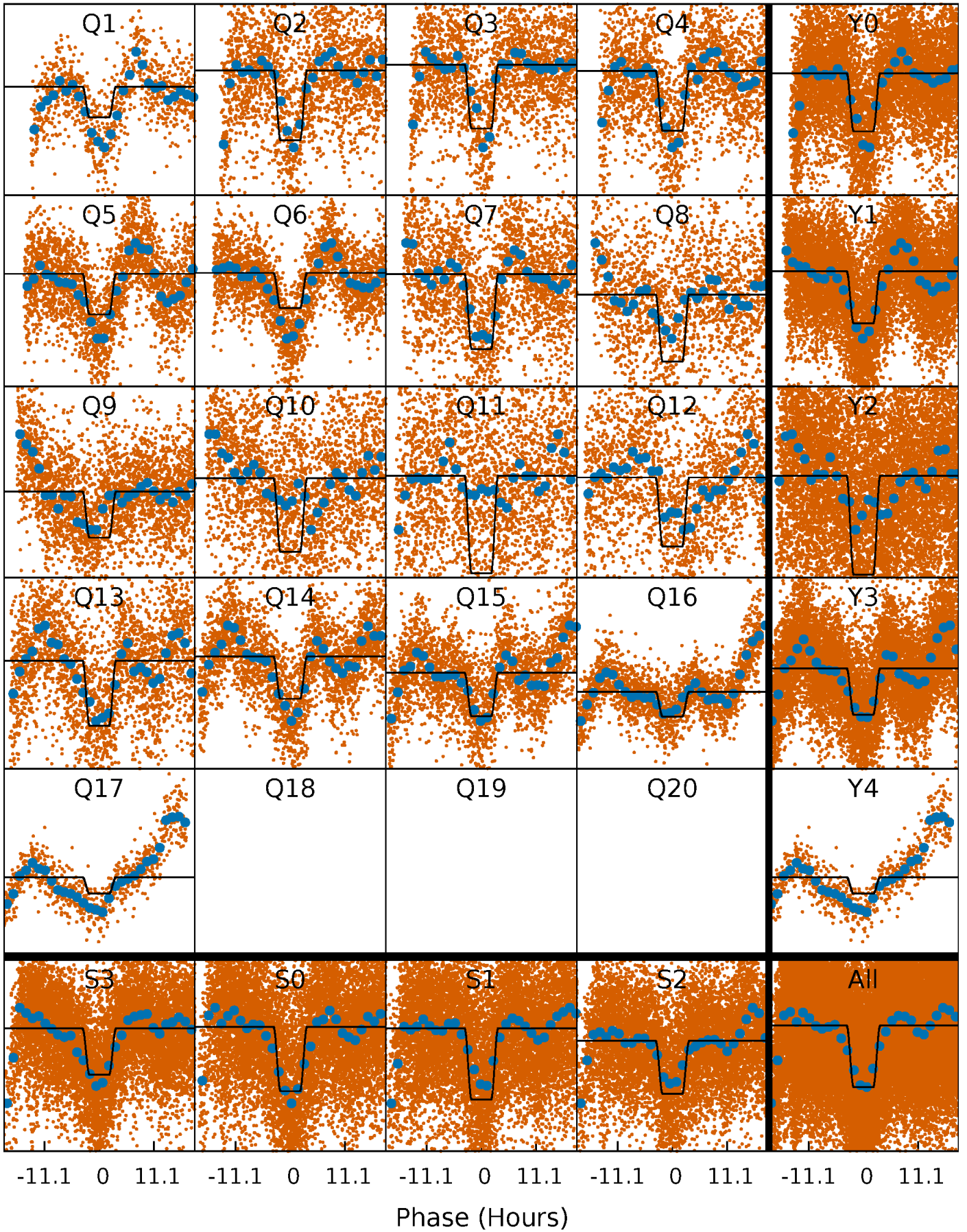
DV Quarter-Phased Transit Curves

TCE 011295085-03 P= 2.498374 Days $T_0=132.467865$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

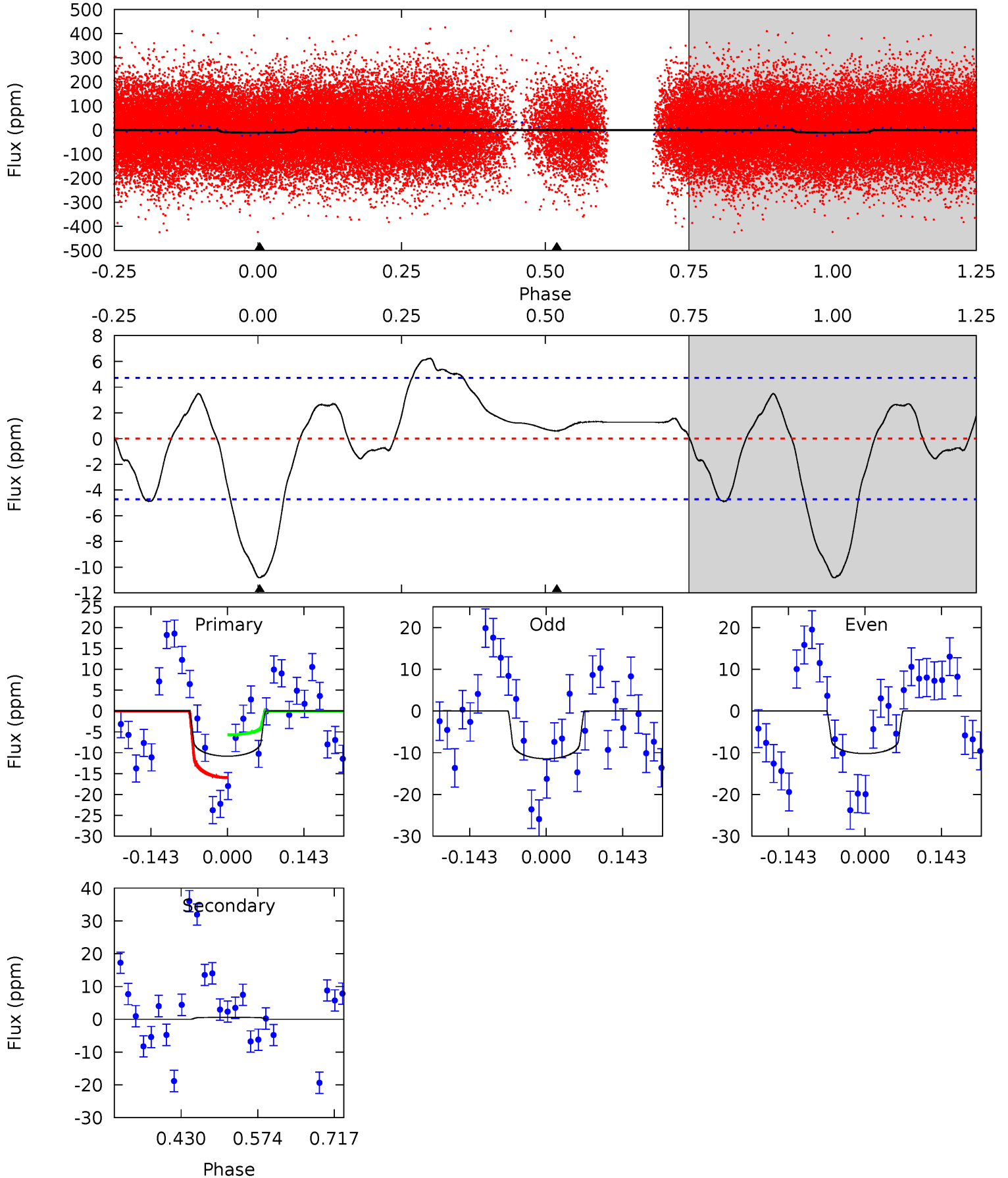
TCE 011295085-03 P= 2.498534 Days $T_0=132.400291$ (BKJD)



DV Model-Shift Uniqueness Test

011295085-03, P = 2.498374 Days, E = 129.969491 Days

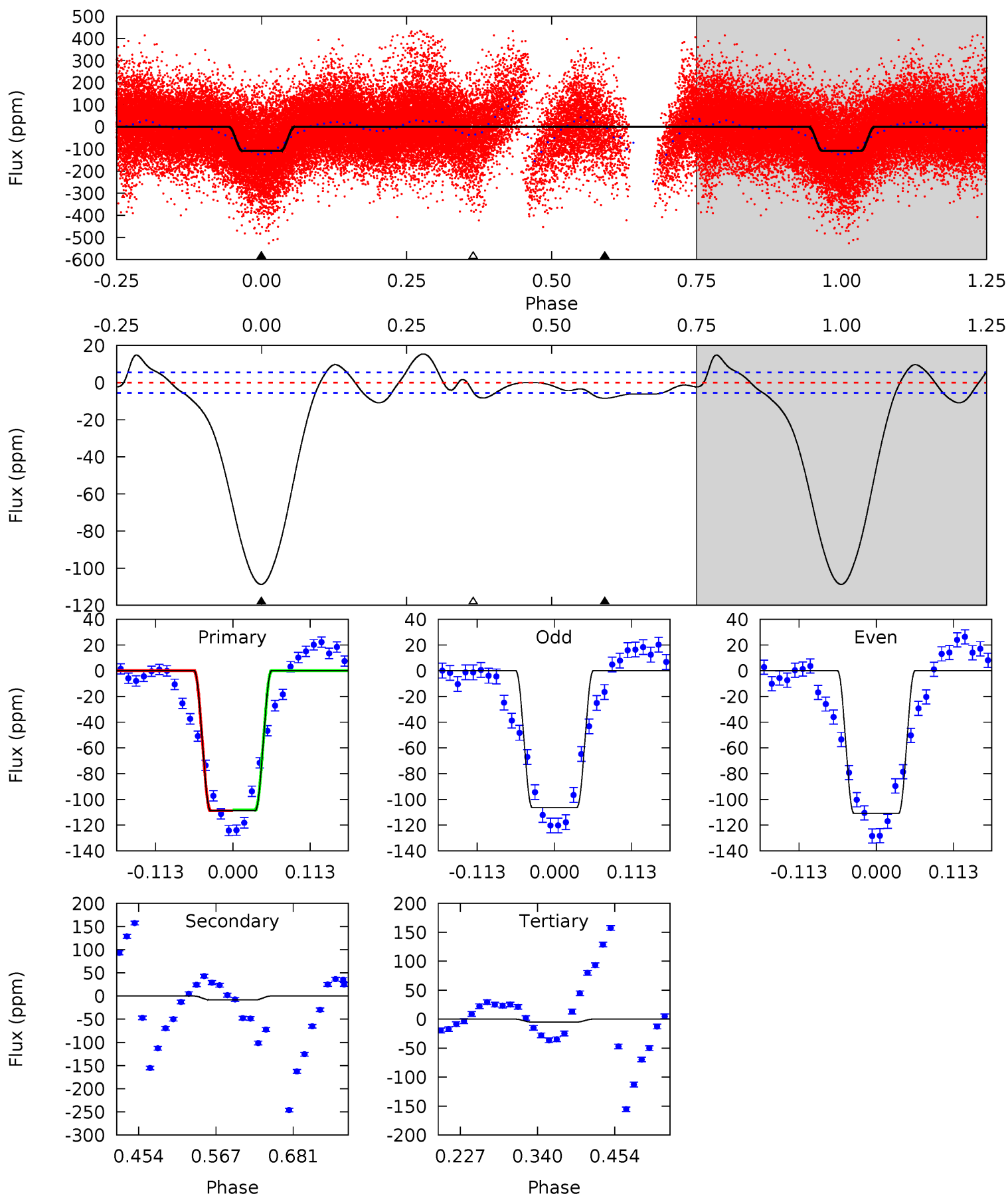
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	-0.56	0	0	4.49	1.46	3.08	10.3	10.3	-0.56	-0.56	0.58	0.90	0.37	4.93



Alt Model-Shift Uniqueness Test

011295085-03, P = 2.498534 Days, E = 129.901757 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
89.2	6.94	4.12	0	4.54	1.58	6.13	85.1	89.2	2.82	6.94	1.92	1.04	0.12	0.27



Stellar Parameters For KIC 011295085

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7117^{+170}_{-255}	$3.964^{+0.208}_{-0.128}$	$-0.020^{+0.250}_{-0.300}$	$2.211^{+0.464}_{-0.568}$	$1.641^{+0.179}_{-0.268}$	$0.214^{+0.232}_{-0.082}$
	+2%/-4%	+5%/-3%	+1250%/-1500%	+21%/-26%	+11%/-16%	+109%/-38%
Source	PHO1	FLK73	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 011295085-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	1 ± 1	$0.87^{+0.24}_{-0.24}$	3130^{+210}_{-211}	-3896^{+6612}_{-723}	$-0.807^{+1.214}_{-1.788}$
Alt.	-8 ± 1	$2.62^{+0.36}_{-0.39}$	3134^{+187}_{-234}	3760^{+199}_{-210}	$1.223^{+0.473}_{-0.305}$

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 $A_{obs} \gg 1.0$

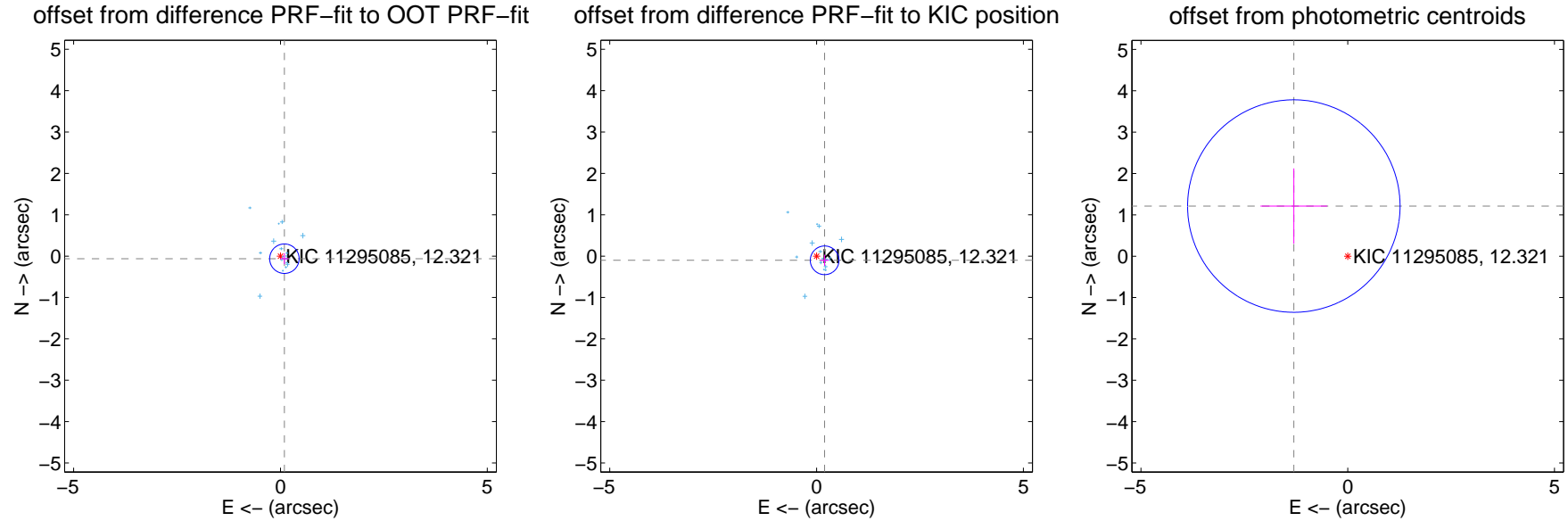
DV Centroid Data

Supplemental centroid analysis for 011295085-03. Kepler magnitude: 12.32. Transit SNR 6.39

There are 17 quarters with good PRF difference image offsets

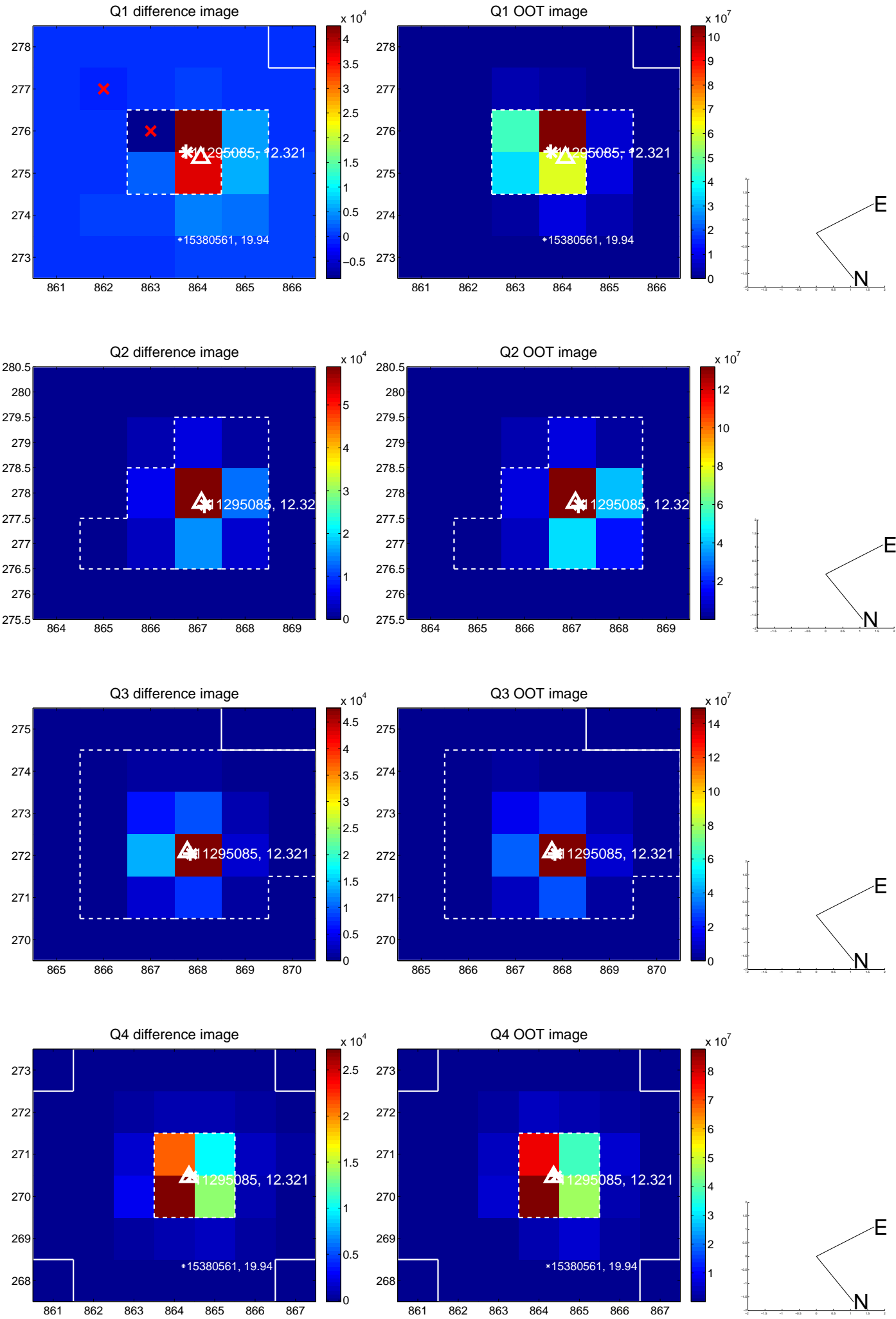
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.114 ± 0.119	0.96	-0.095 ± 0.102	-0.062 ± 0.136
PRF-fit source offset from KIC position	0.219 ± 0.116	1.90	-0.195 ± 0.099	-0.101 ± 0.134
photometric centroid source offset	1.78 ± 0.86	2.08	1.30 ± 0.81	1.21 ± 0.91

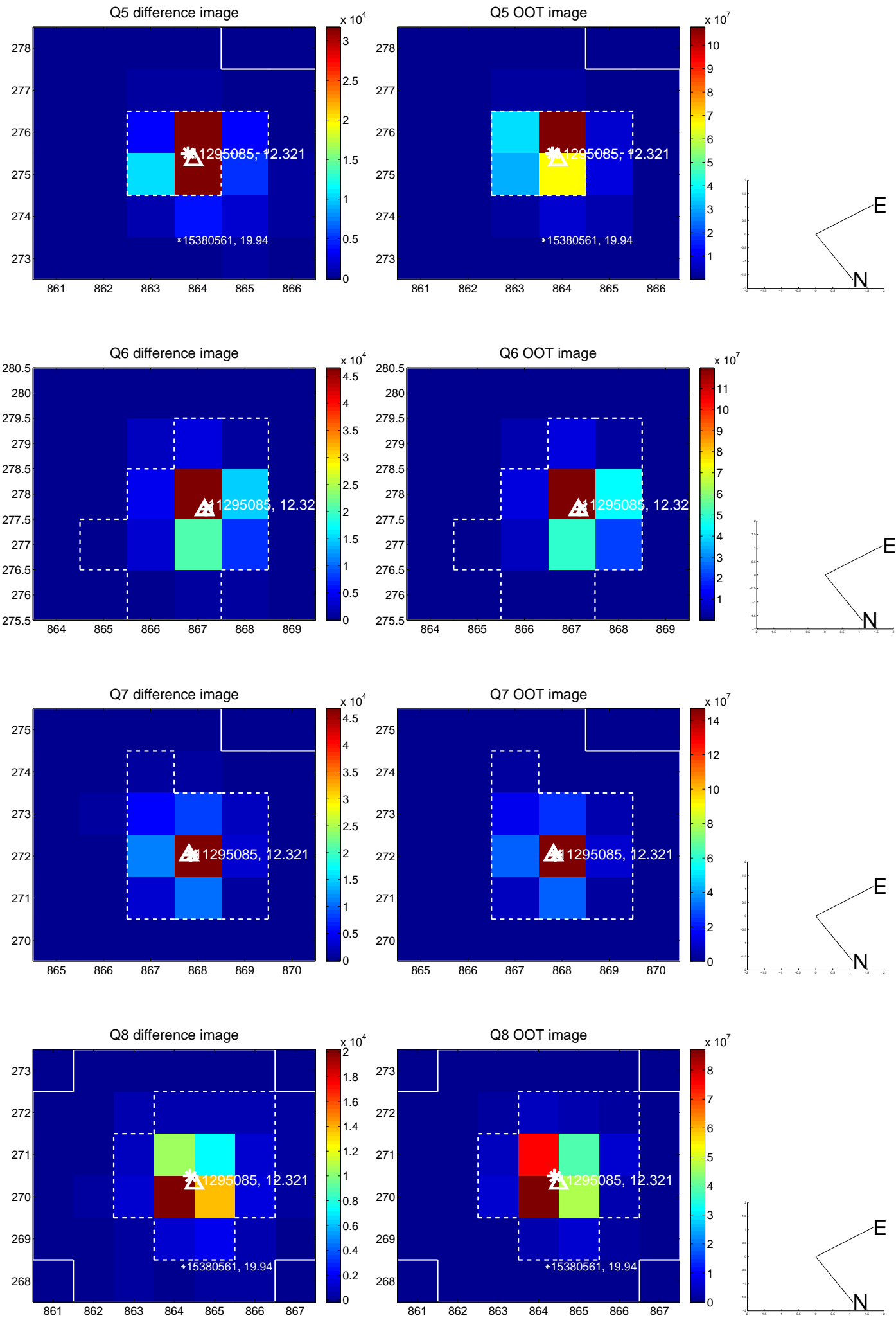


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

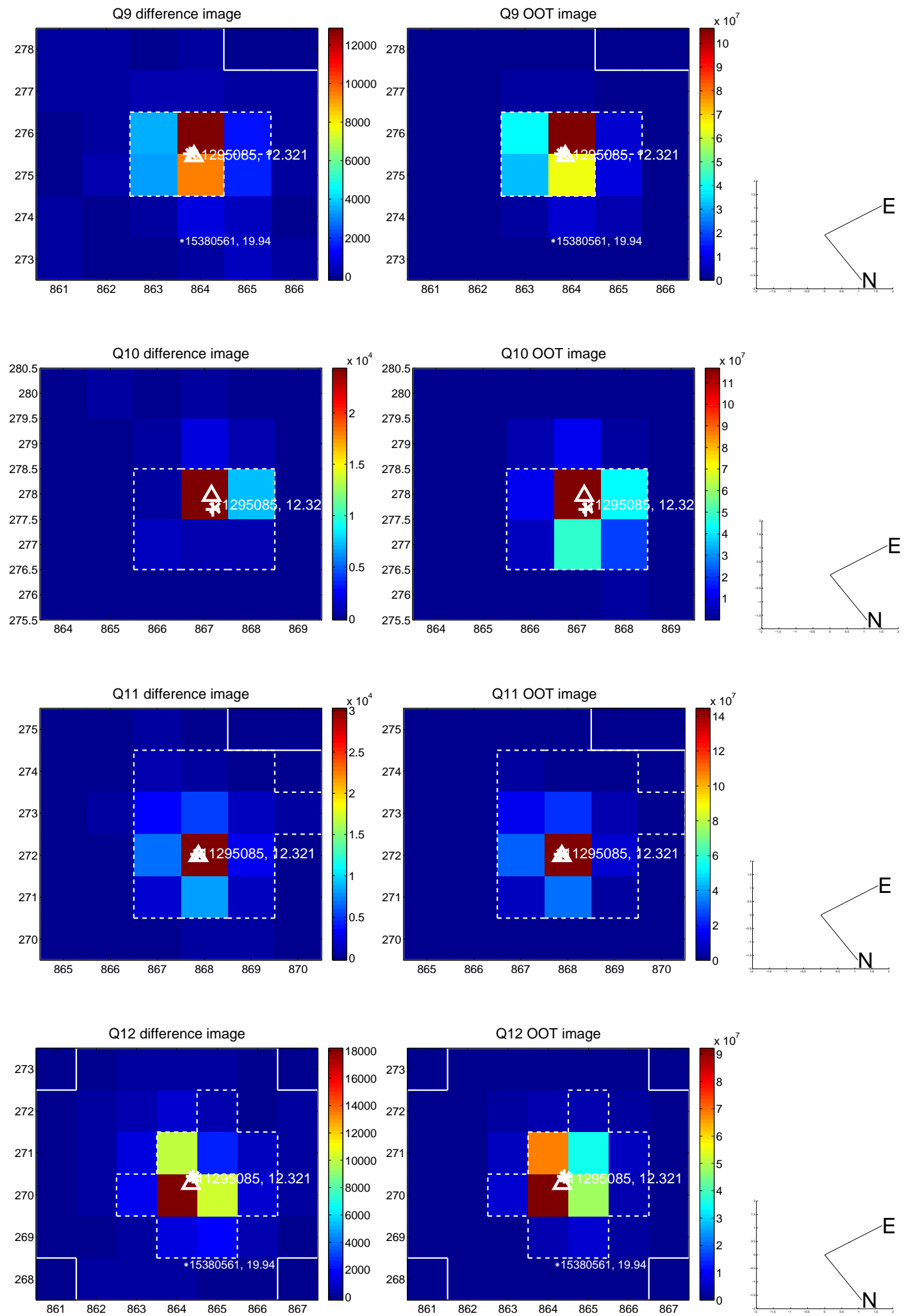
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



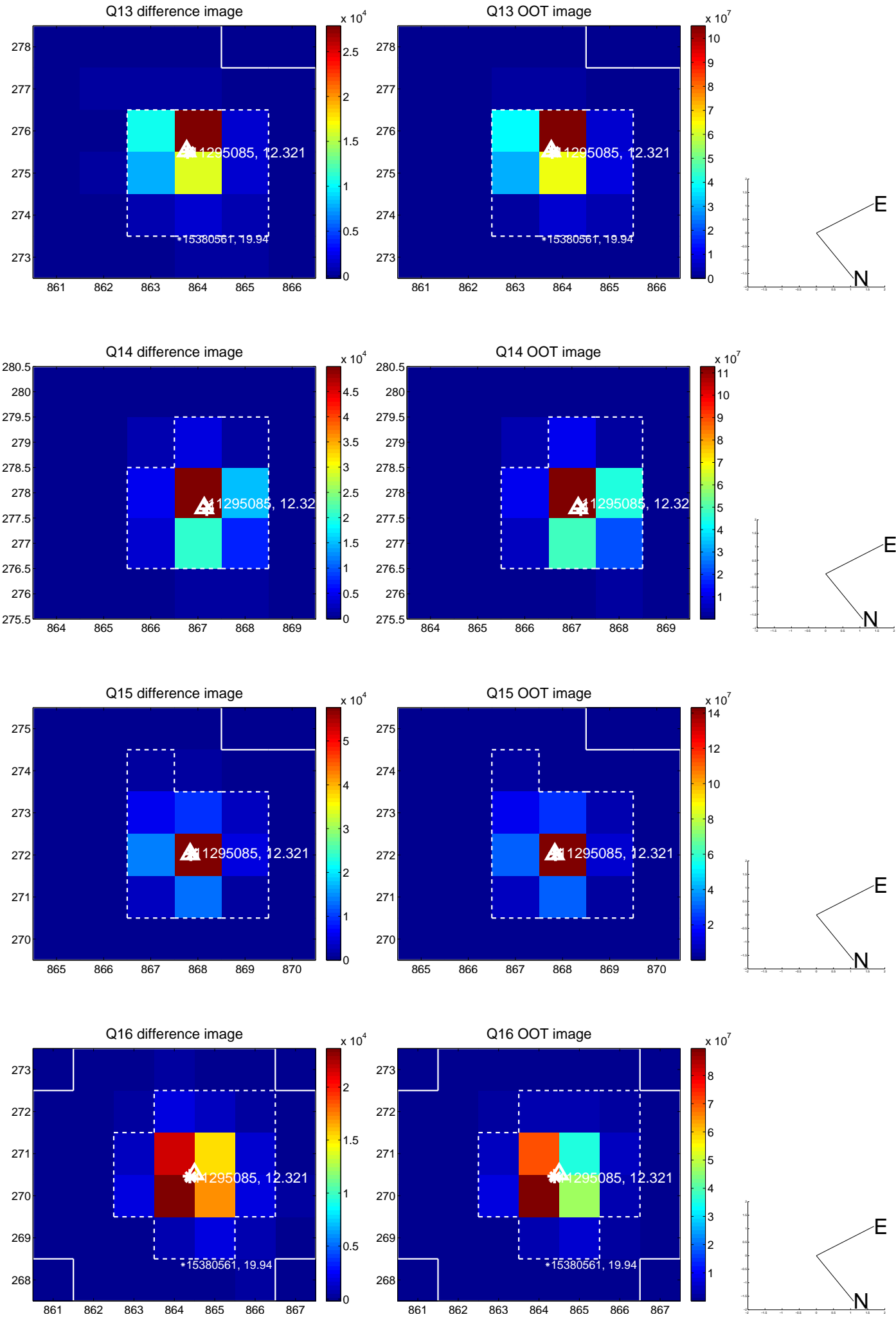
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



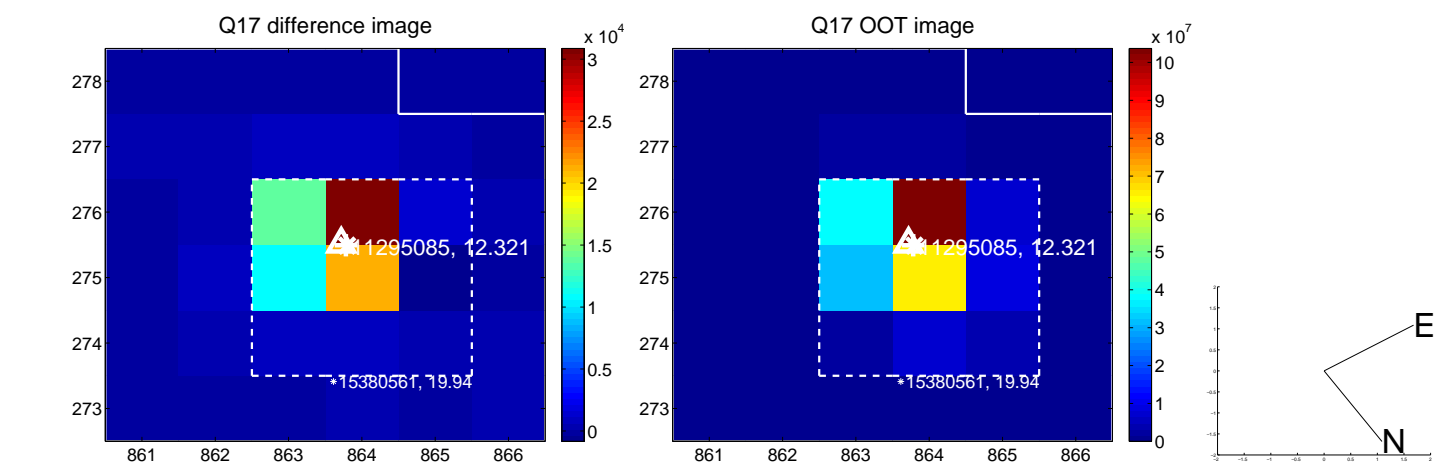
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



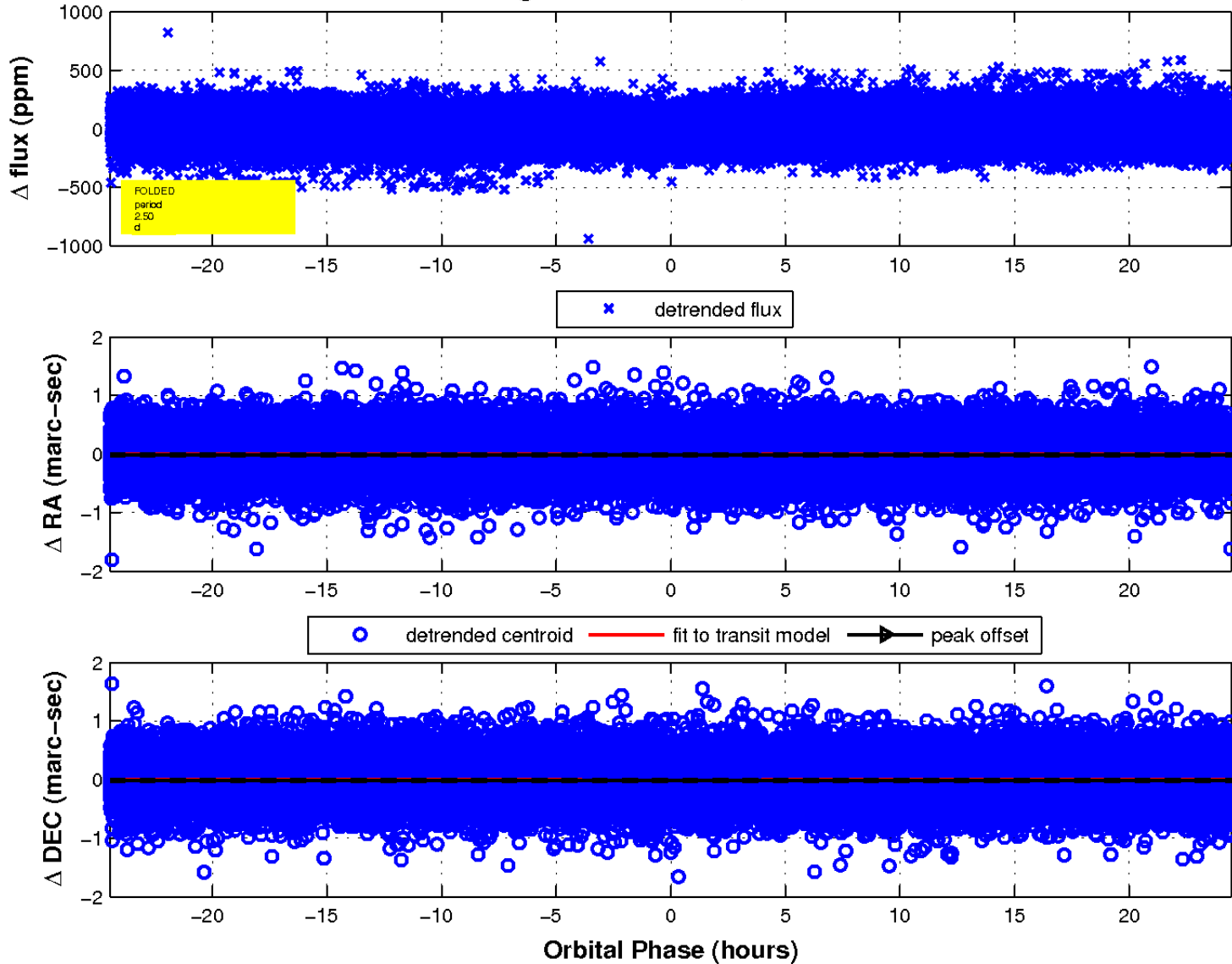
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

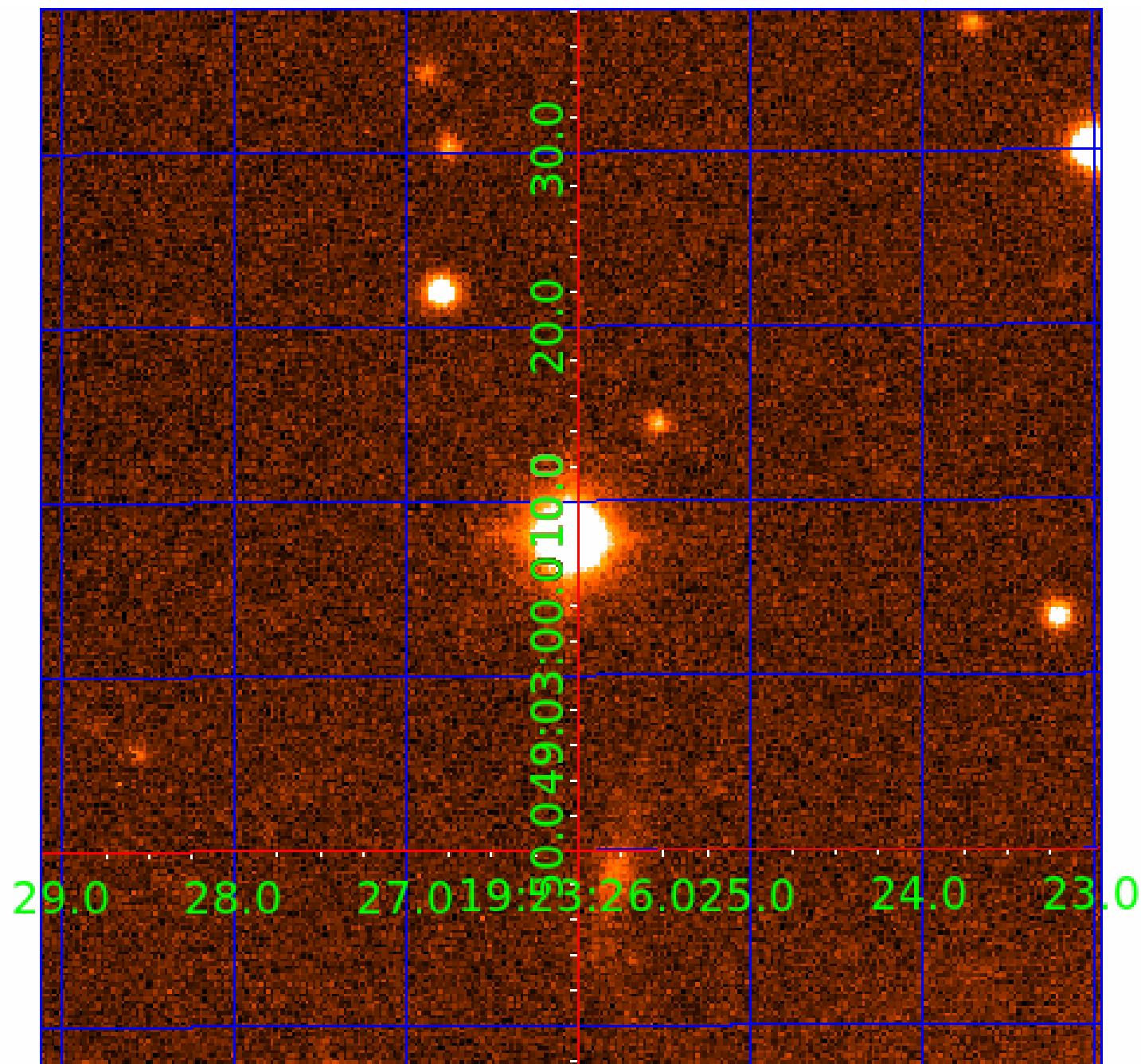


fluxWeightedCentroids, Planet 3 of 5



UKIRT Image

Declination



KIC 011295085

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})
011295085-01	OBS	No	2.498129	131.661553	23.7	2.492	9.7	8.7	2.21	7117	1.27	6218.06
011295085-02	OBS	7436.01	2.497736	133.788409	22.0	2.838	9.9	8.3	2.21	7117	1.30	6219.36
011295085-03	OBS	No	2.498374	132.467865	12.4	8.157	8.7	6.4	2.21	7117	0.90	6217.25
011295085-04	OBS	No	52.803749	169.081761	74.8	5.649	8.1	4.6	2.21	7117	2.19	106.39
011295085-05	OBS	No	149.792856	152.128771	180.0	3.655	7.2	7.7	2.21	7117	3.37	26.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011295085-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011295085-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
011295085-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
011295085-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011295085-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

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

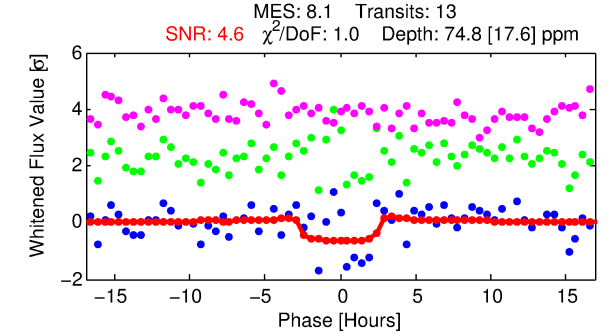
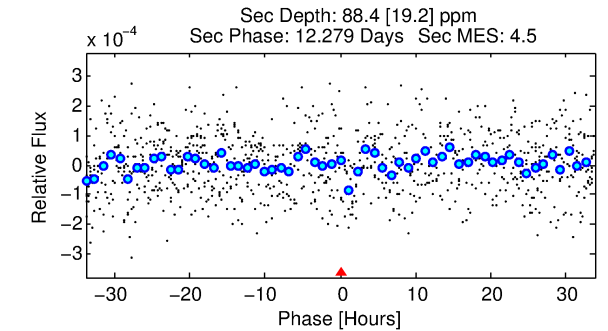
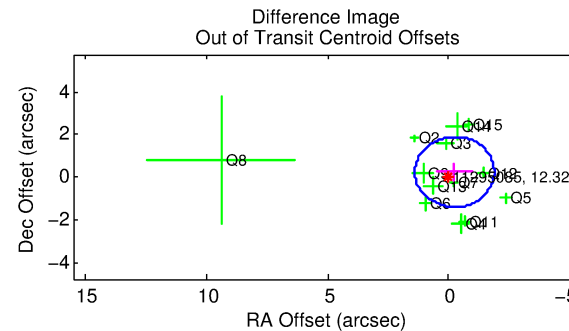
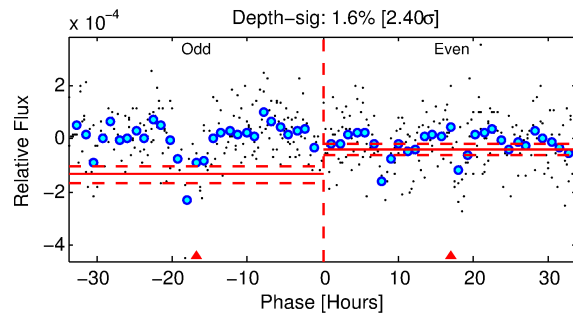
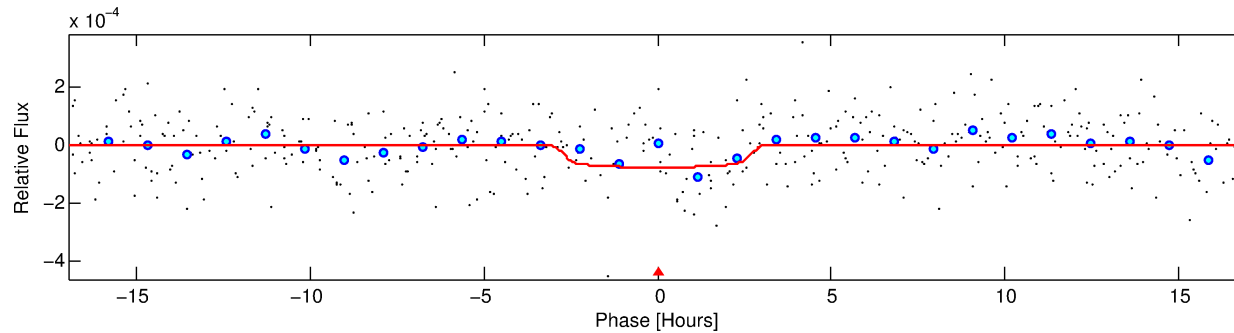
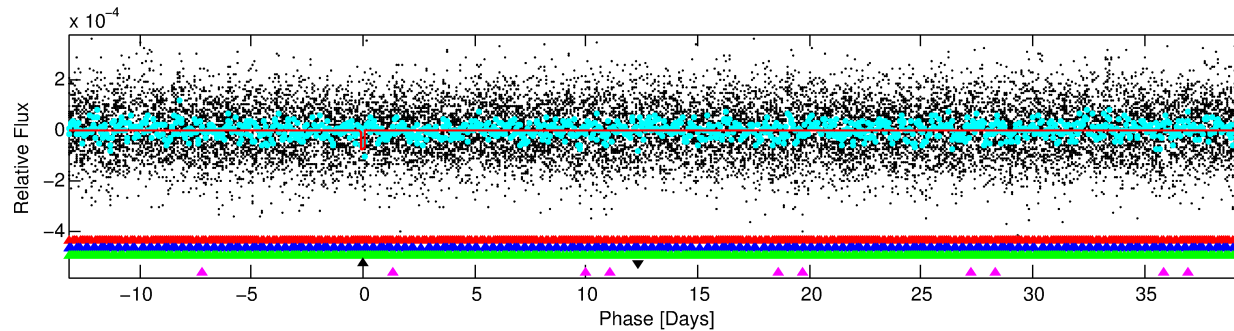
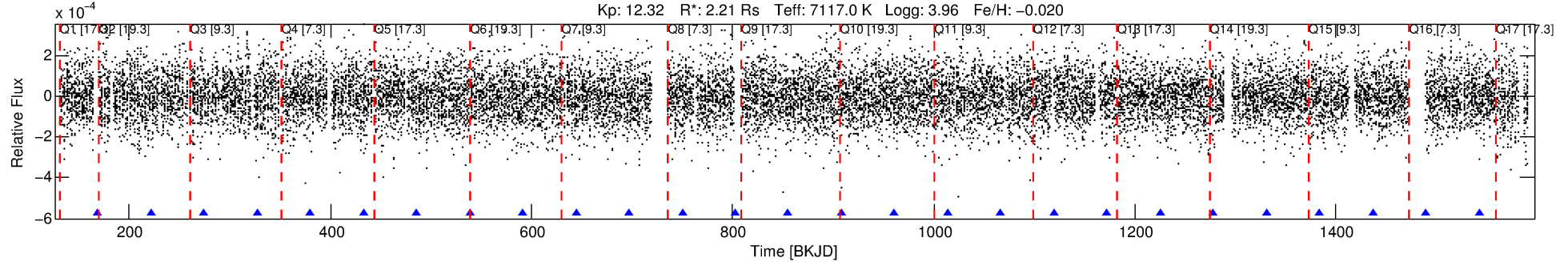
Ephemeris Match Information For 011295085-04

No Significant Match Found

DV One-Page Summary

KIC: 11295085 Candidate: 4 of 5 Period: 52.804 d
KOI: K07436 Corr: No Ephemeris Match

Kp: 12.32 R*: 2.21 Rs Teff: 7117.0 K Logg: 3.96 Fe/H: -0.020



DV Fit Results:

Period = 52.80375 [0.00115] d
Epoch = 169.0818 [0.0172] BKJD
Rp/R* = 0.0091 [0.0054]
a/R* = 35.37 [126.55]
b = 0.88 [0.93]
Seff = 106.40 [41.46]
Teq = 819 [80] K
Rp = 2.19 [1.42] Re
a = 0.3250 [0.0761] AU
Ag = 1074.00 [1354.32] [0.79σ]
Teffp = 7248 [2204] K [2.92σ]

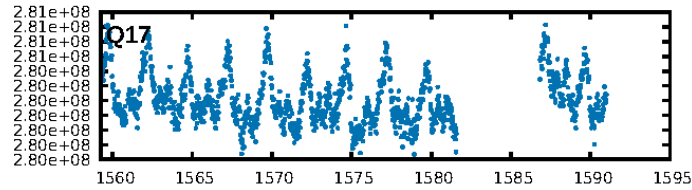
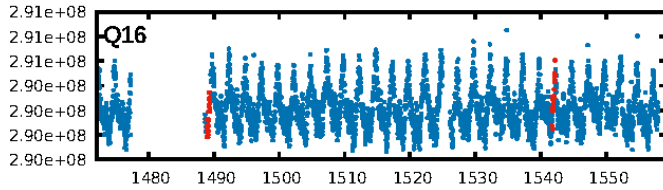
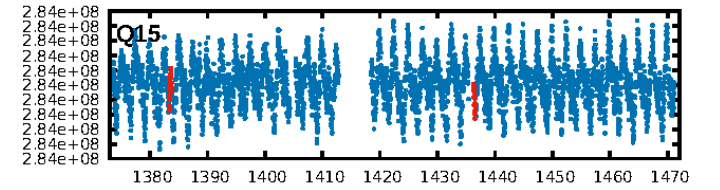
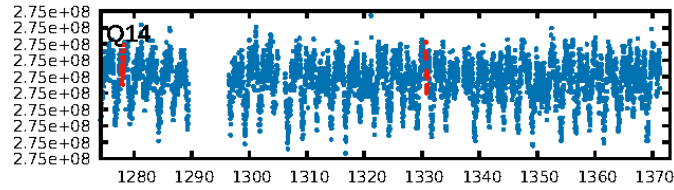
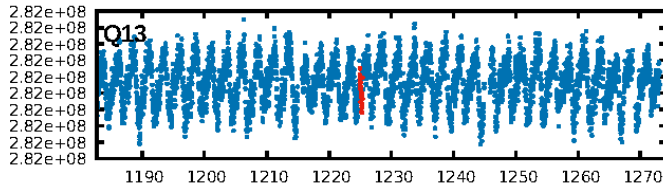
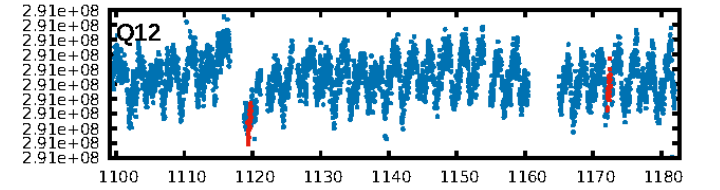
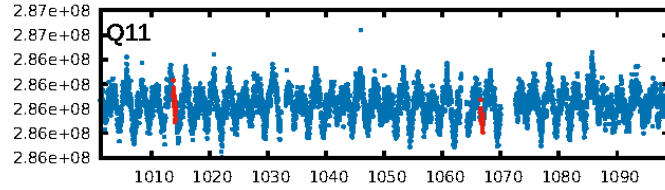
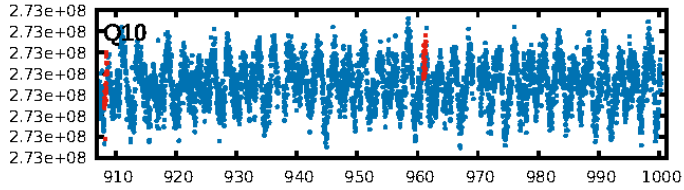
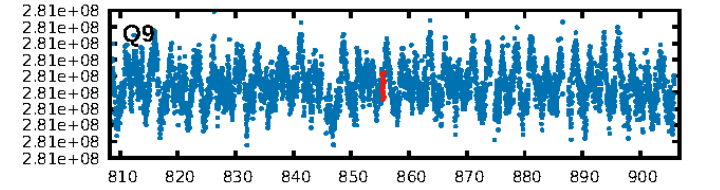
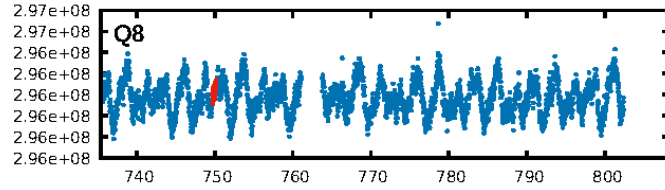
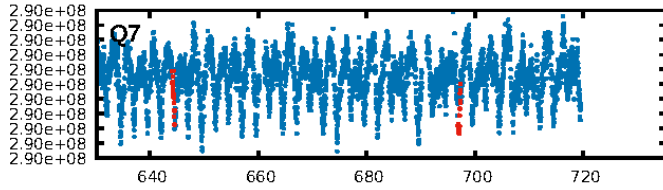
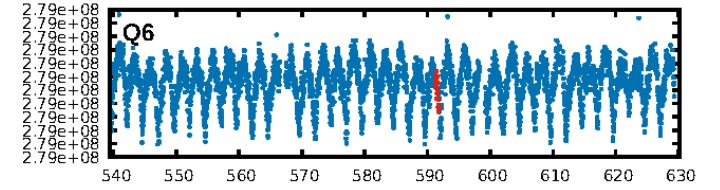
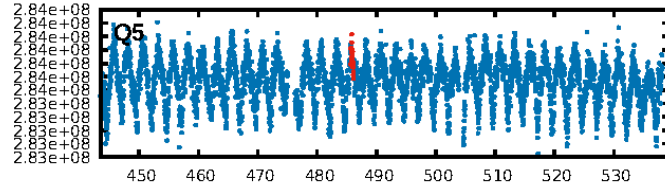
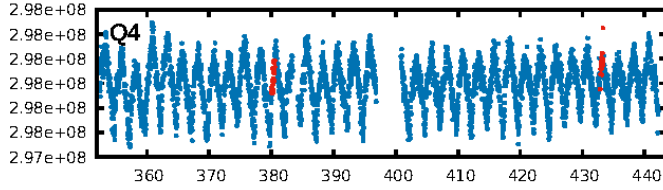
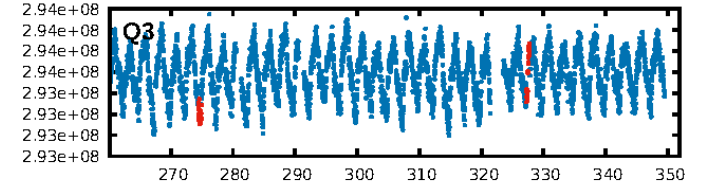
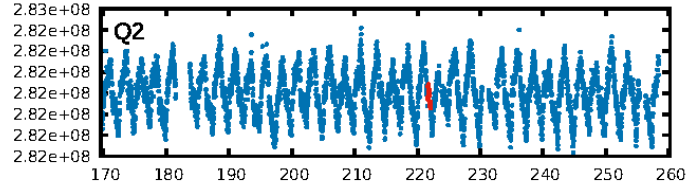
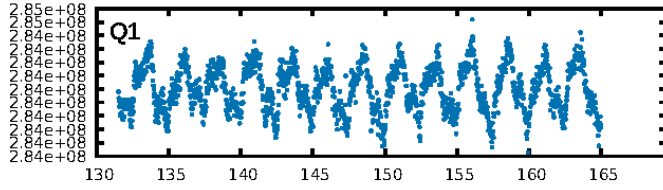
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [121.68σ]
LongPeriod-sig: 100.0% [345.96σ]
ModelChiSquare2-sig: 71.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.09e-11
RollingBand-fgt: 1.00 [13/13]
GhostDiagnostic-chr: 1.635
Centroid-sig: 9.4%
Centroid-so: 0.829 arcsec [0.96σ]
OotOffset-rm: 0.347 arcsec [0.64σ]
KicOffset-rm: 0.374 arcsec [0.55σ]
OotOffset-st: 3/4/3/3 [13]
KicOffset-st: 3/4/3/3 [13]
DiffImageQuality-fgm: 0.46 [6/13]
DiffImageOverlap-fno: 0.00 [0/15]

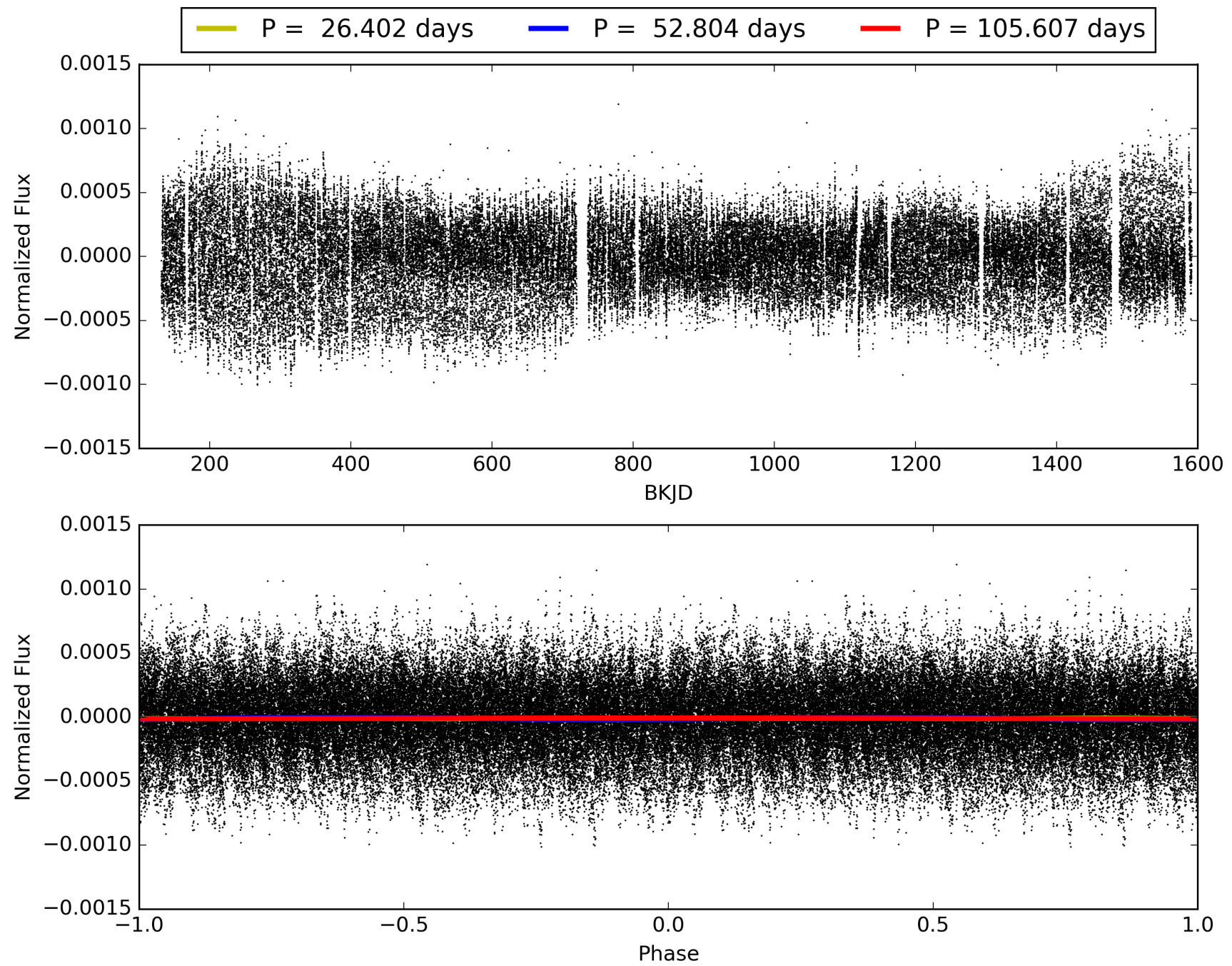
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:12:43 Z

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

TCE 011295085-04, PDC Light Curves

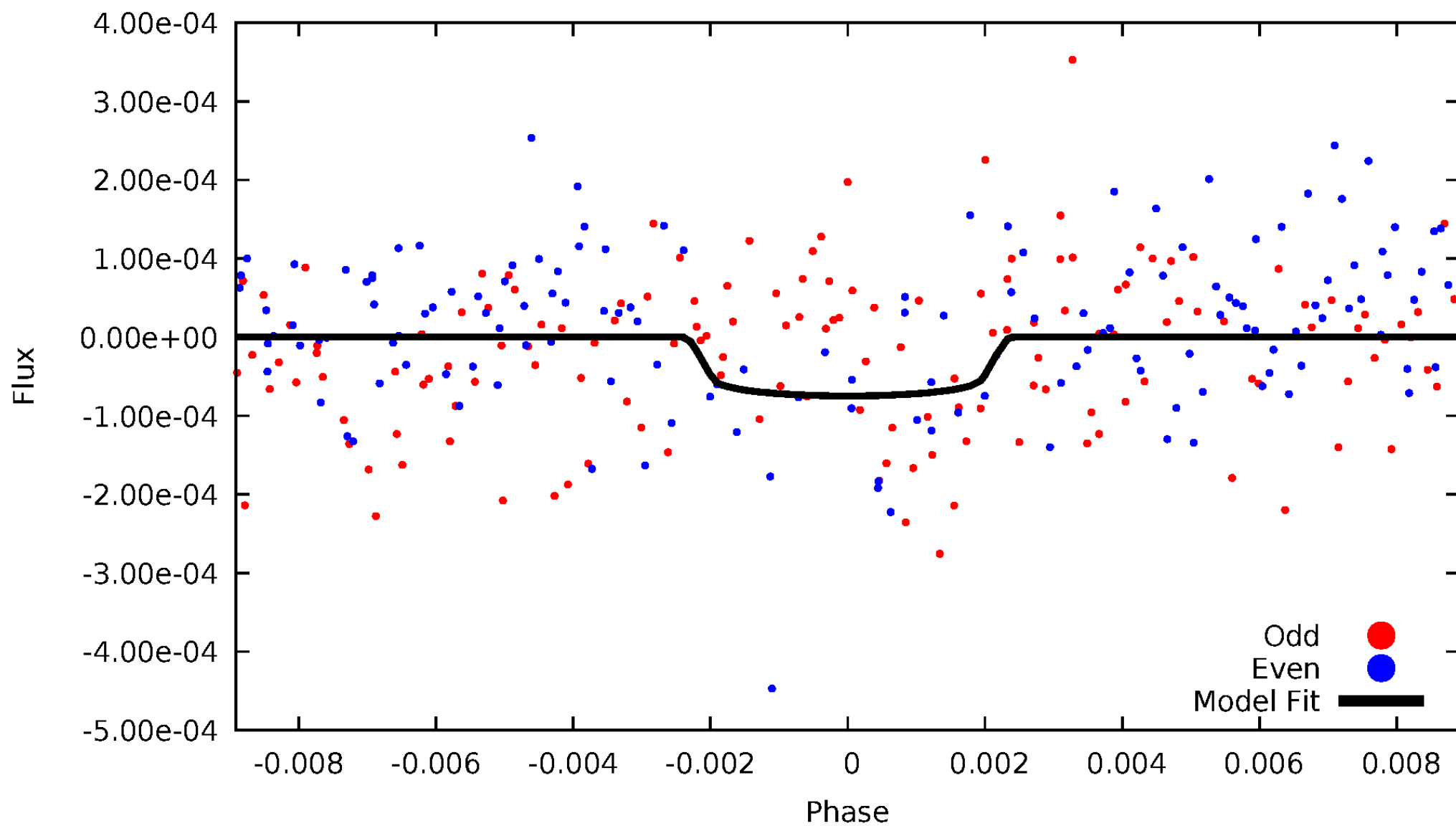


TCE 011295085-04



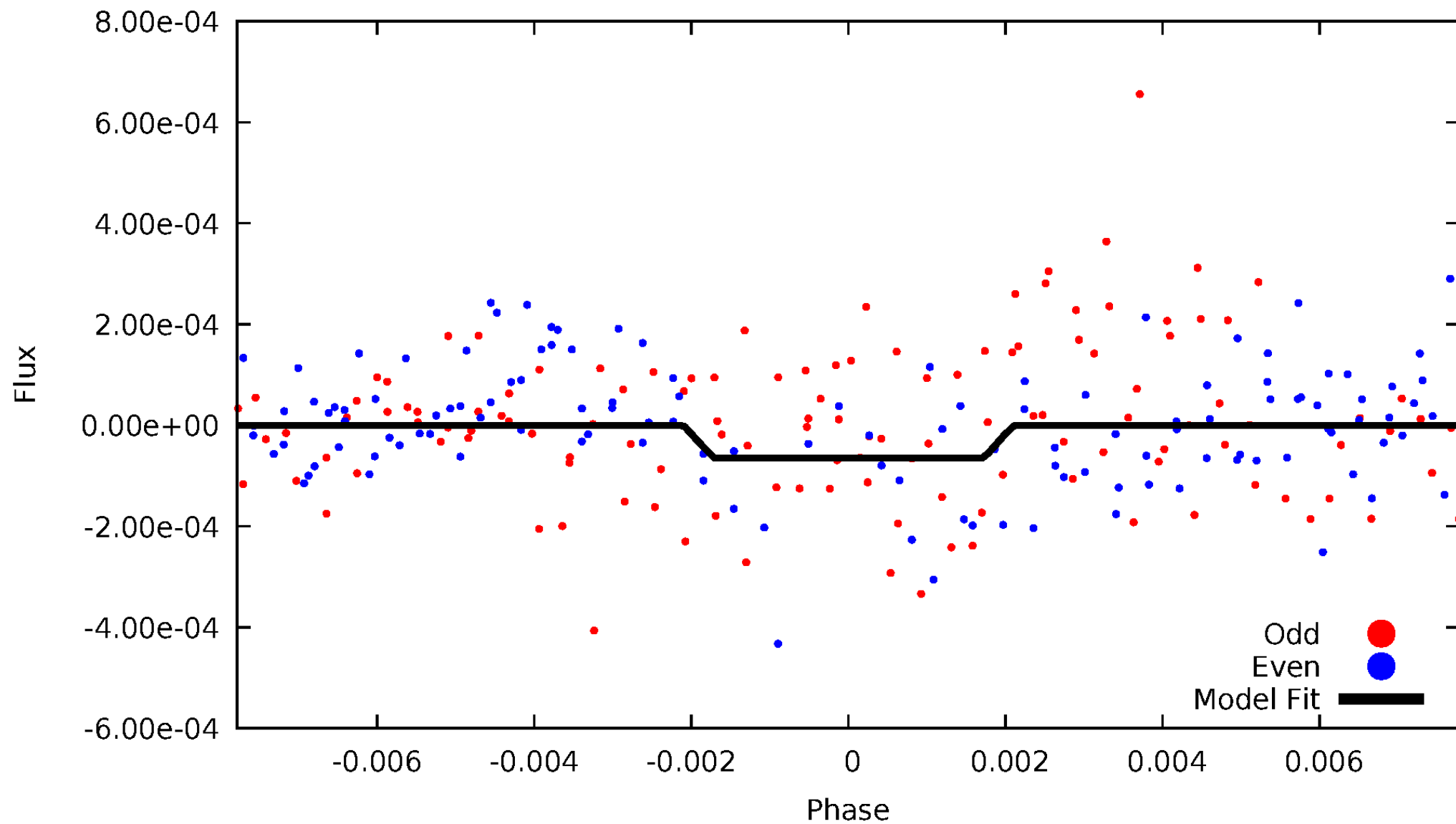
DV Odd/Even

TCE 011295085-04



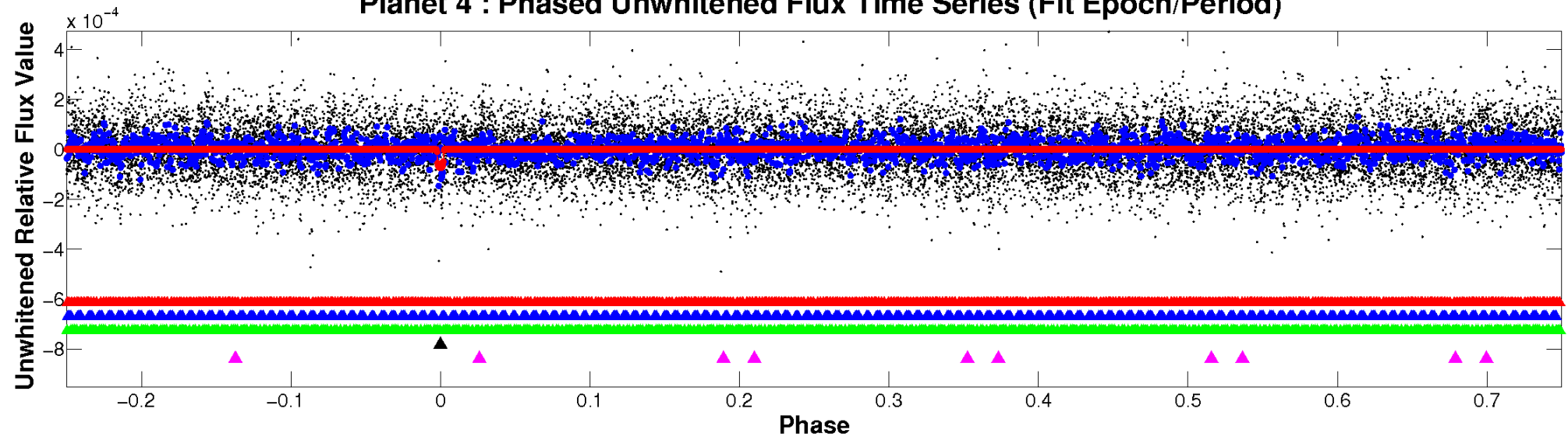
ALT Odd/Even

TCE 011295085-04

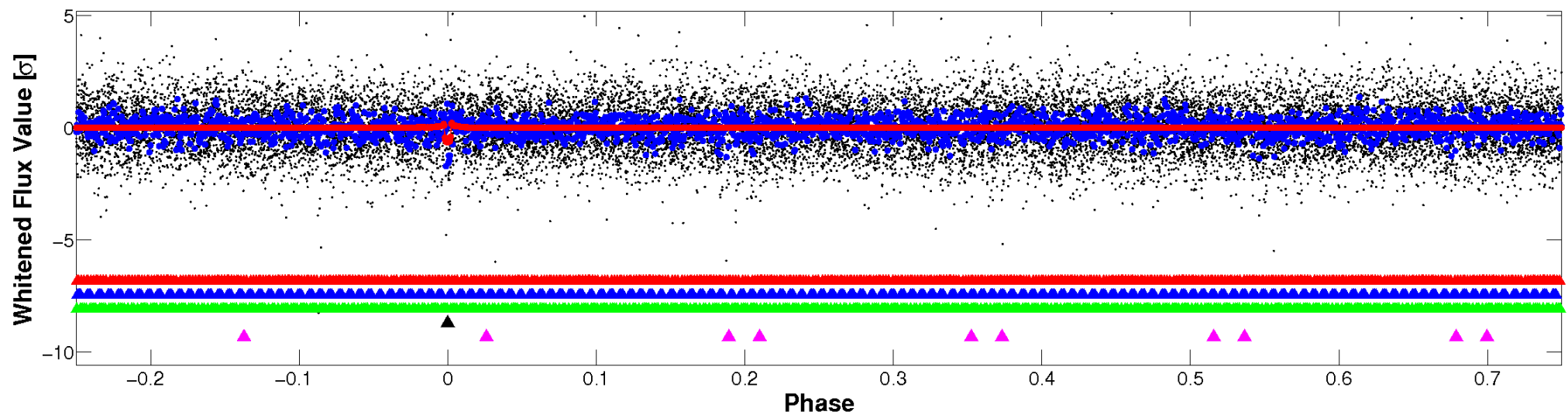


Non-Whitened Vs. Whitened Light Curve

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

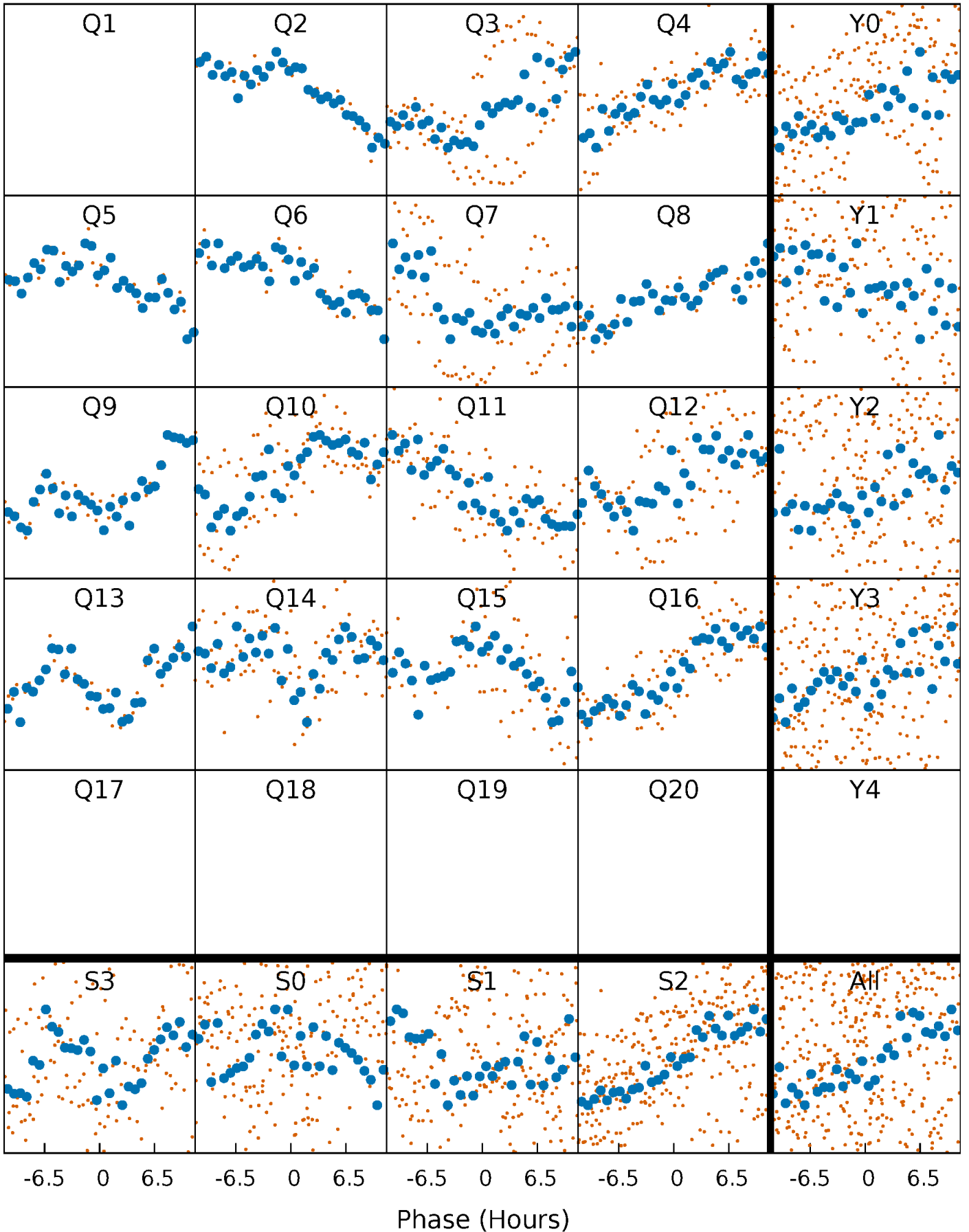


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



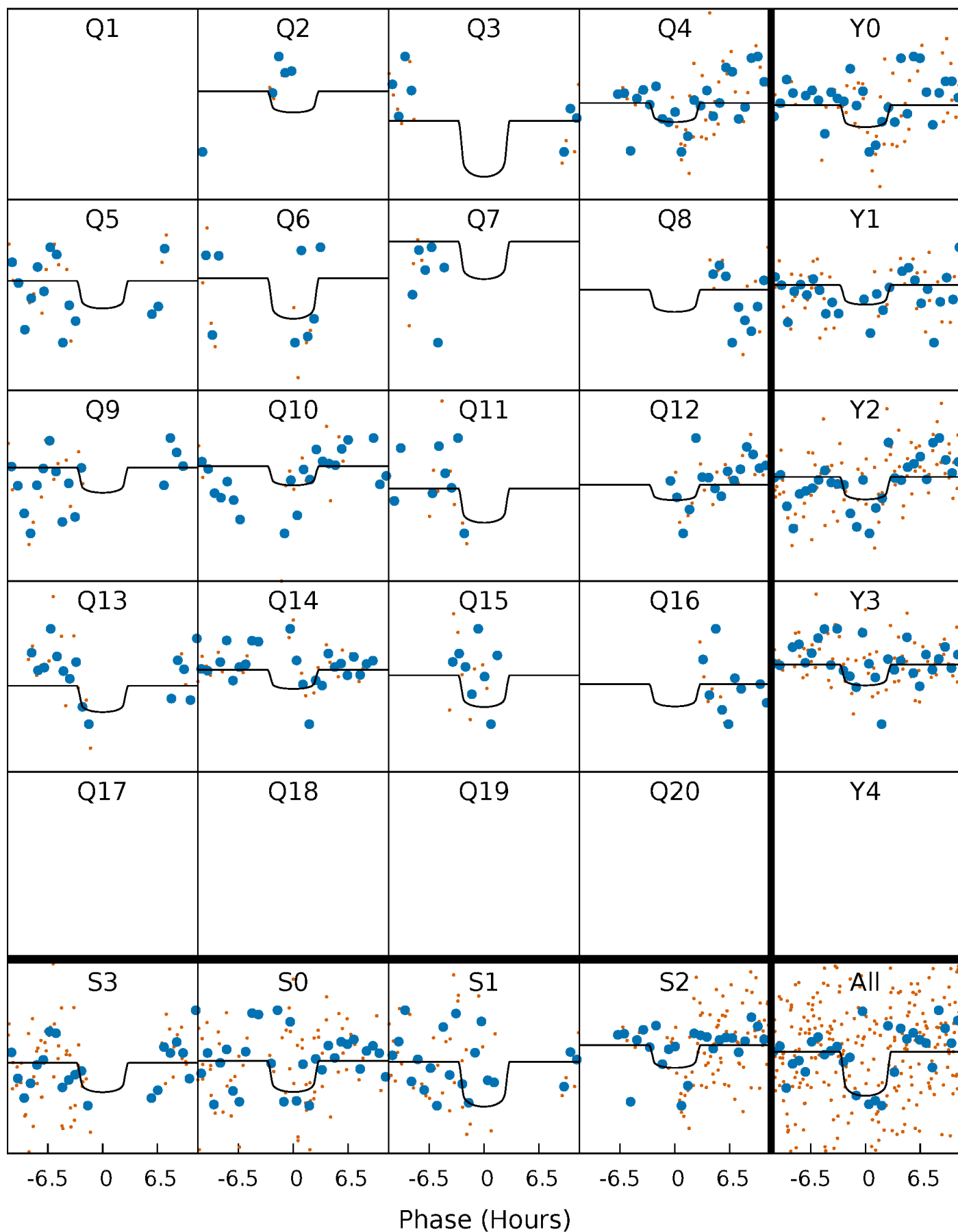
PDC Quarter-Phased Transit Curves

TCE 011295085-04 P= 52.803749 Days $T_0=169.081761$ (BKJD)



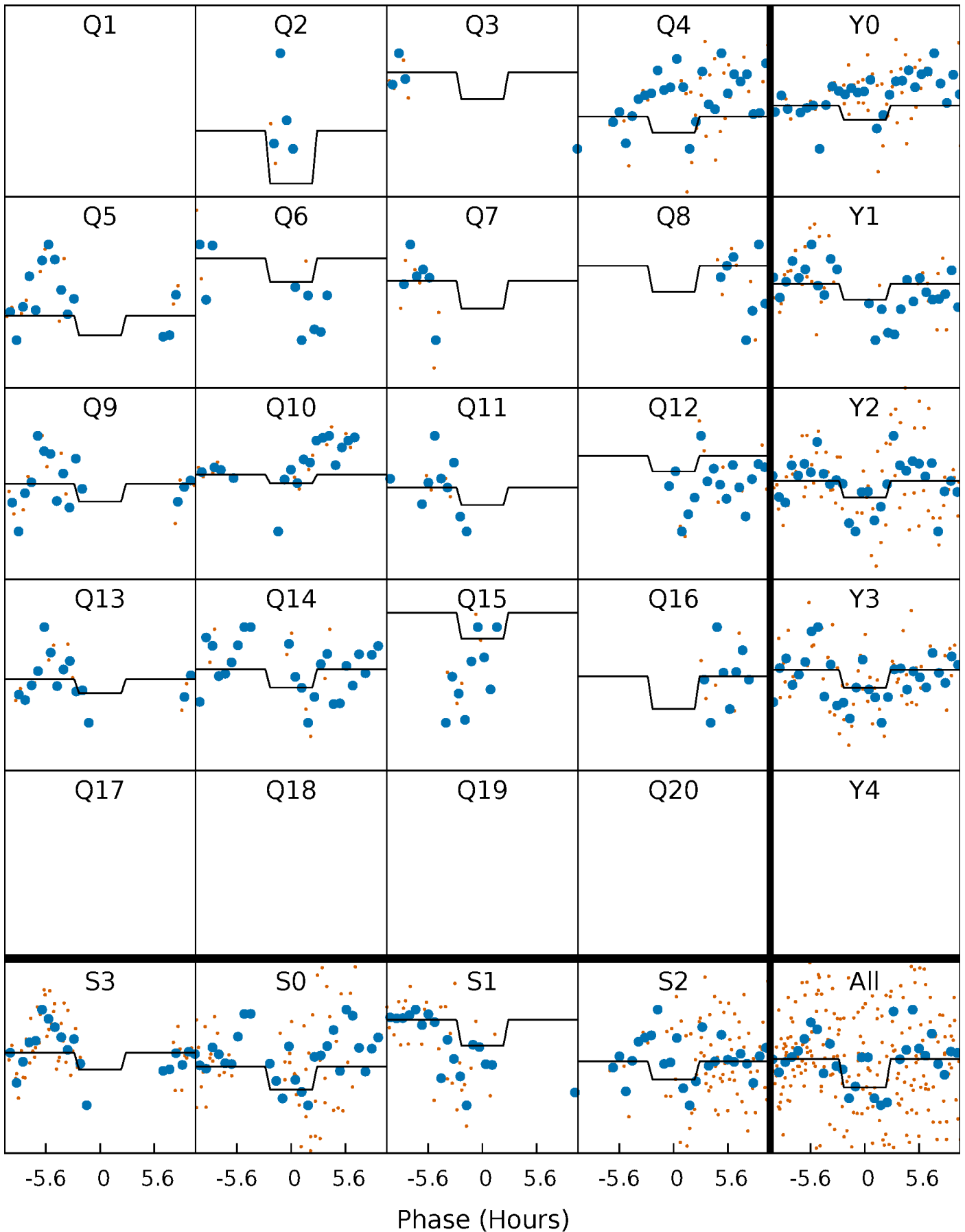
DV Quarter-Phased Transit Curves

TCE 011295085-04 P= 52.803749 Days $T_0=169.081761$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

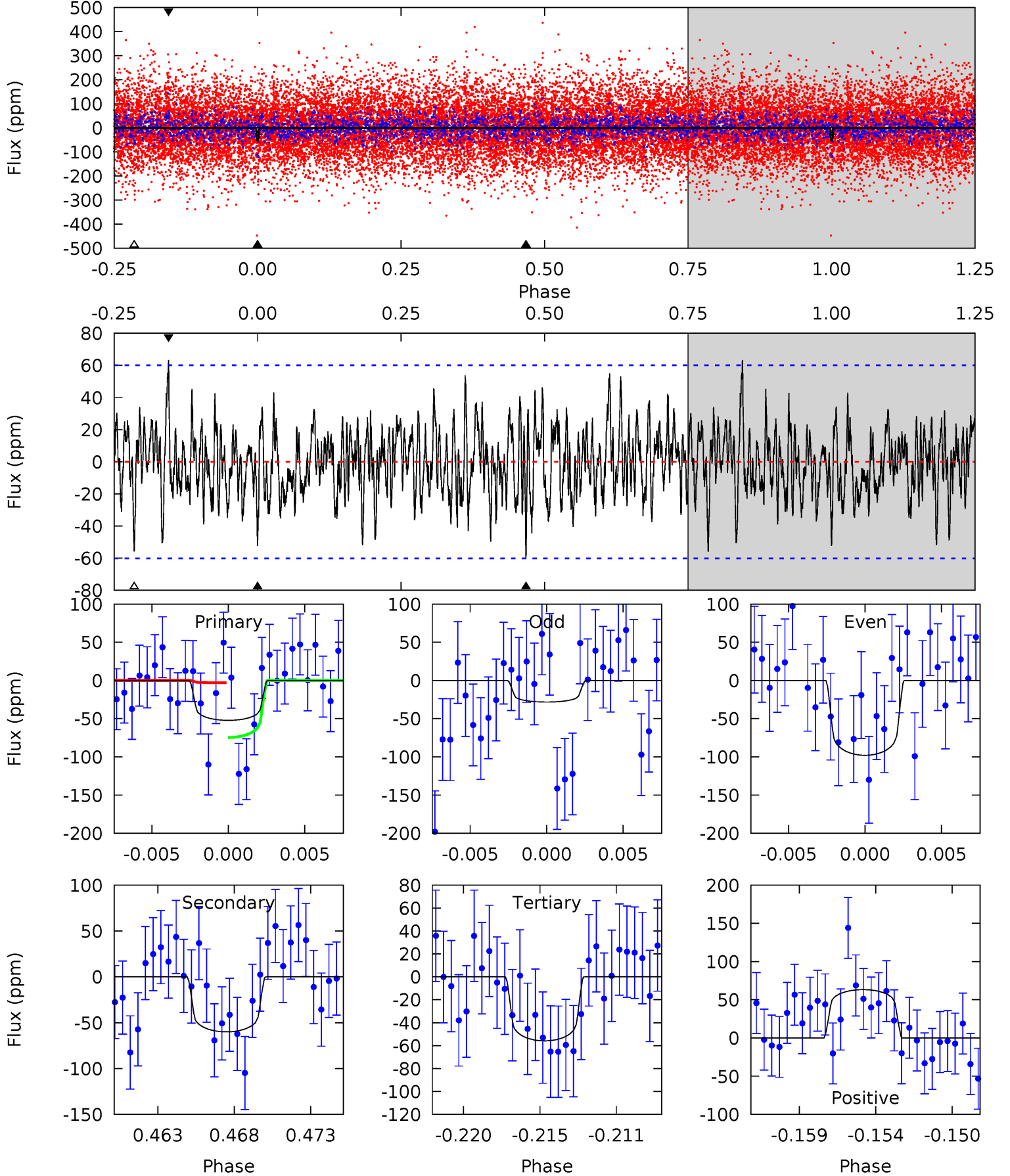
TCE 011295085-04 P= 52.805079 Days $T_0=169.052083$ (BKJD)



DV Model-Shift Uniqueness Test

011295085-04, P = 52.803749 Days, E = 116.278012 Days

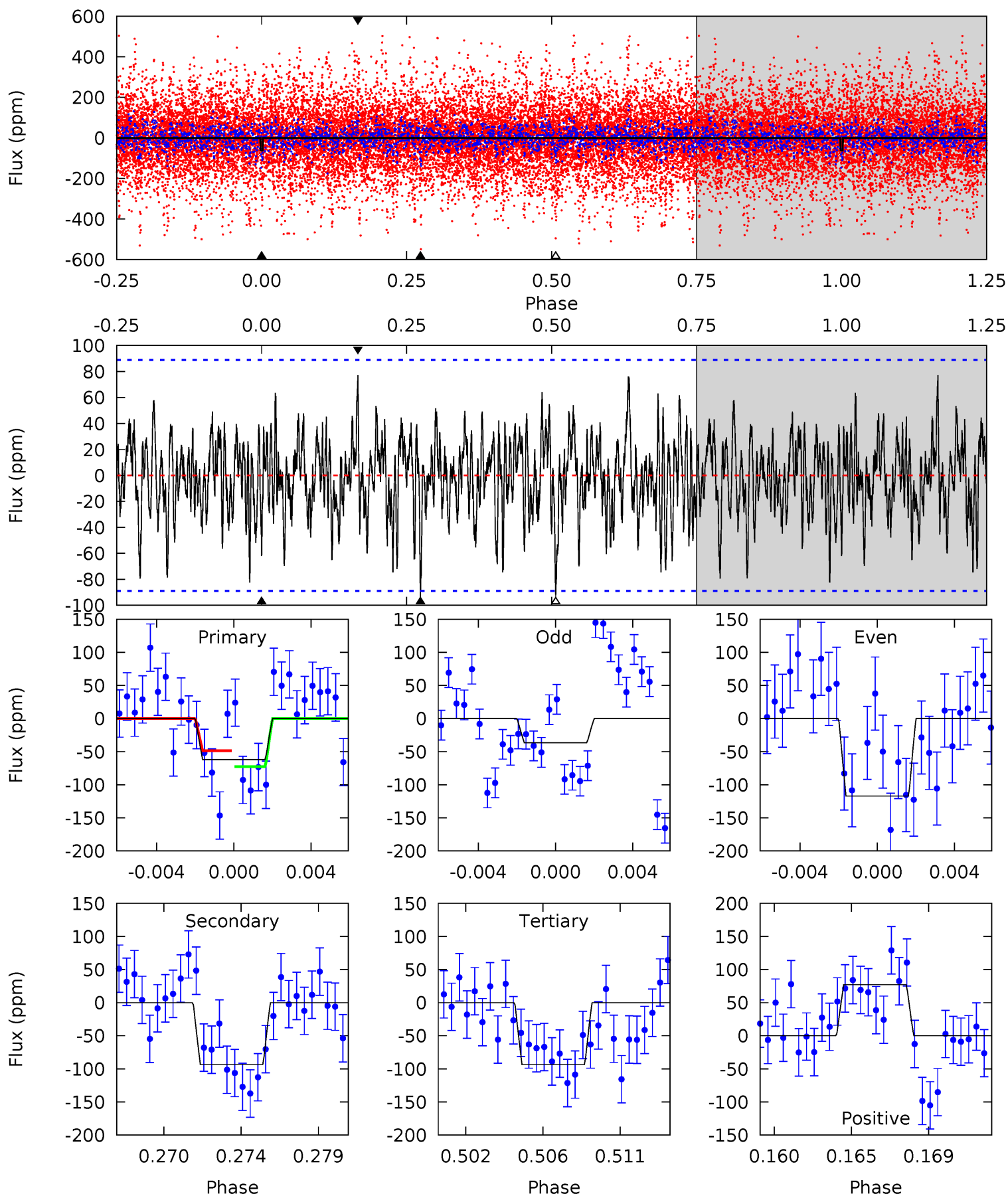
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.49	5.15	4.80	5.44	5.17	2.83	1.61	-0.31	-0.95	0.35	-0.29	2.87	1.01	0.51	3.01



Alt Model-Shift Uniqueness Test

011295085-04, P = 52.805079 Days, E = 116.247004 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.62	5.46	5.46	4.50	5.19	2.86	1.57	-1.84	-0.89	0.00	0.96	2.17	0.71	0.45	0.70



Stellar Parameters For KIC 011295085

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7117^{+170}_{-255}	$3.964^{+0.208}_{-0.128}$	$-0.020^{+0.250}_{-0.300}$	$2.211^{+0.464}_{-0.568}$	$1.641^{+0.179}_{-0.268}$	$0.214^{+0.232}_{-0.082}$
	+2%/-4%	+5%/-3%	+1250%/-1500%	+21%/-26%	+11%/-16%	+109%/-38%
Source	PHO1	FLK73	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 011295085-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-60 ± 12	$2.21^{+1.25}_{-1.16}$	1137^{+68}_{-79}	6332^{+3944}_{-1178}	689^{+2624}_{-417}
Alt.	-94 ± 17	$2.05^{+1.24}_{-1.15}$	1135^{+72}_{-79}	7661^{+6151}_{-1825}	1350^{+5578}_{-855}

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

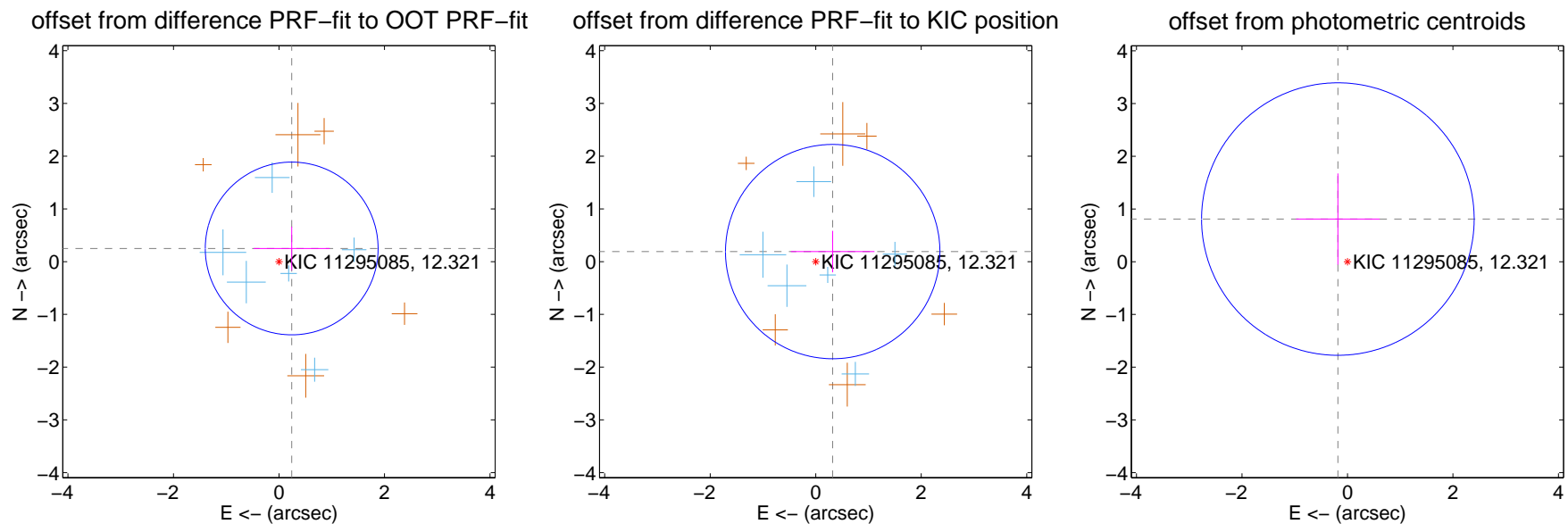
DV Centroid Data

Supplemental centroid analysis for 011295085-04. Kepler magnitude: 12.32. Transit SNR 4.57

There are 6 quarters with good PRF difference image offsets

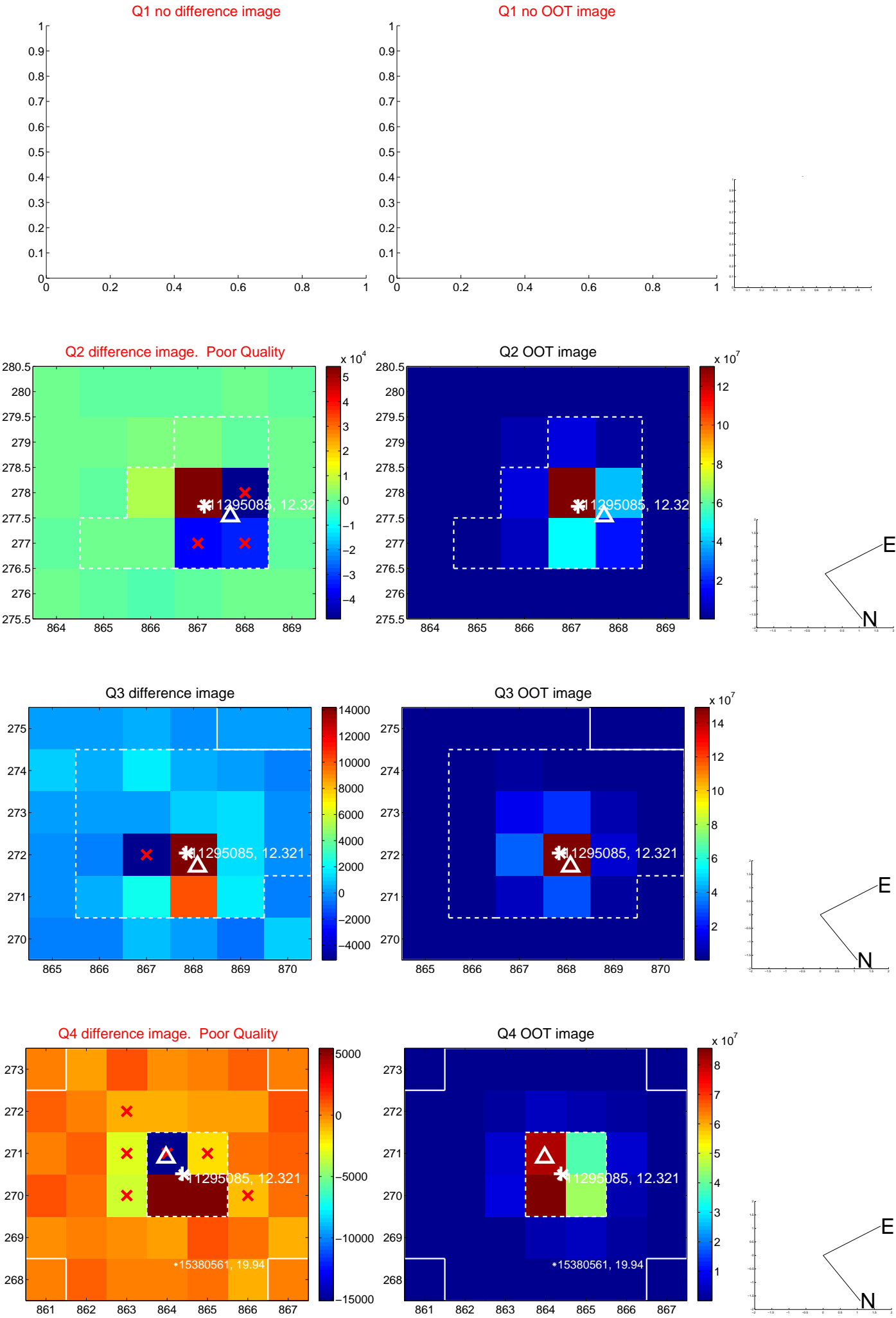
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.347 ± 0.546	0.64	-0.241 ± 0.721	0.250 ± 0.413
PRF-fit source offset from KIC position	0.374 ± 0.677	0.55	-0.322 ± 0.792	0.190 ± 0.394
photometric centroid source offset	0.83 ± 0.86	0.96	0.18 ± 0.79	0.81 ± 0.86

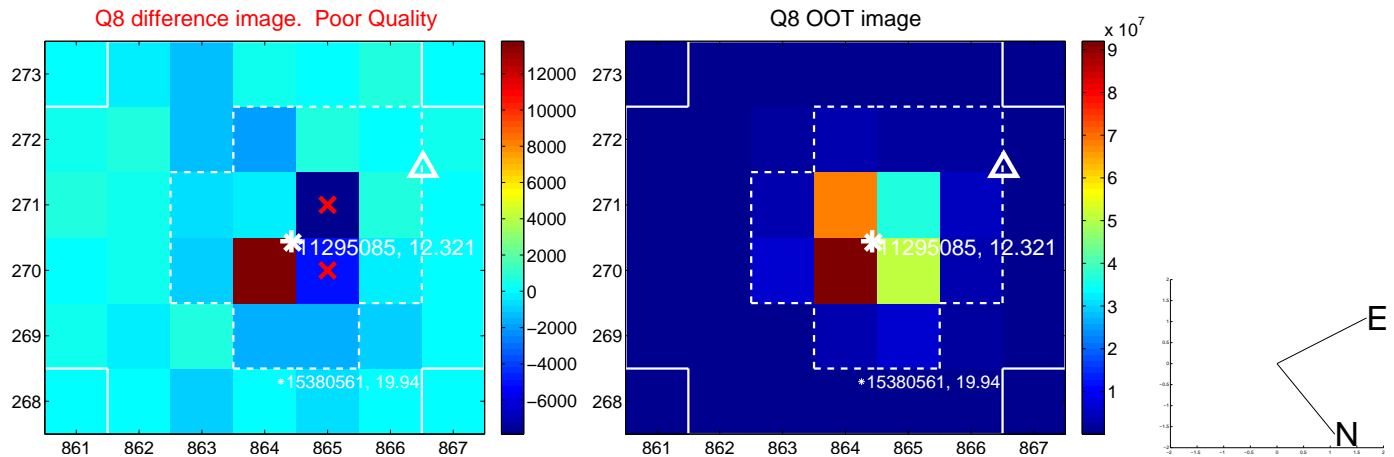
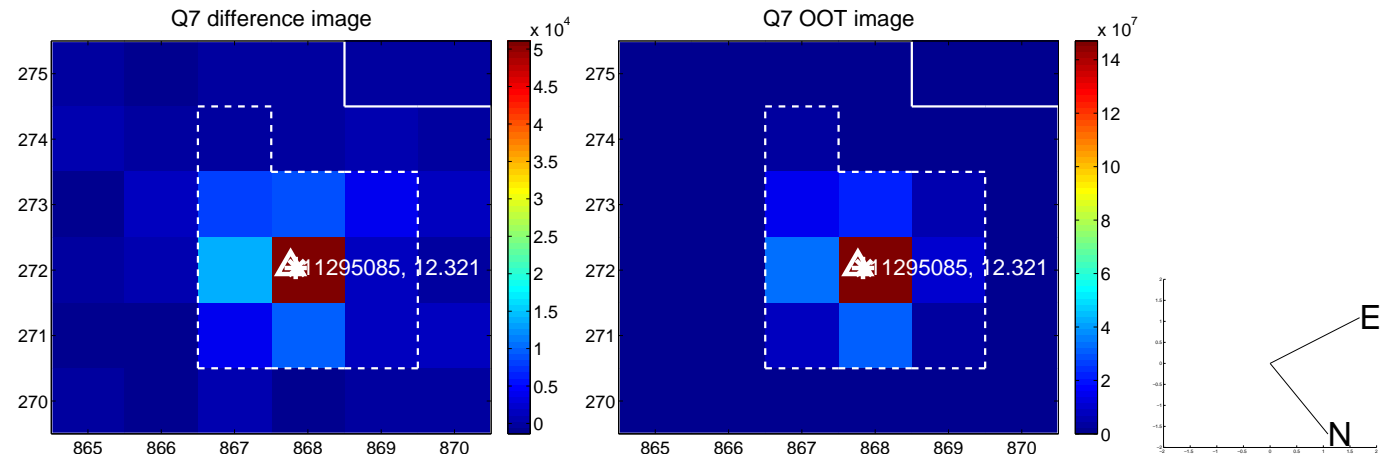
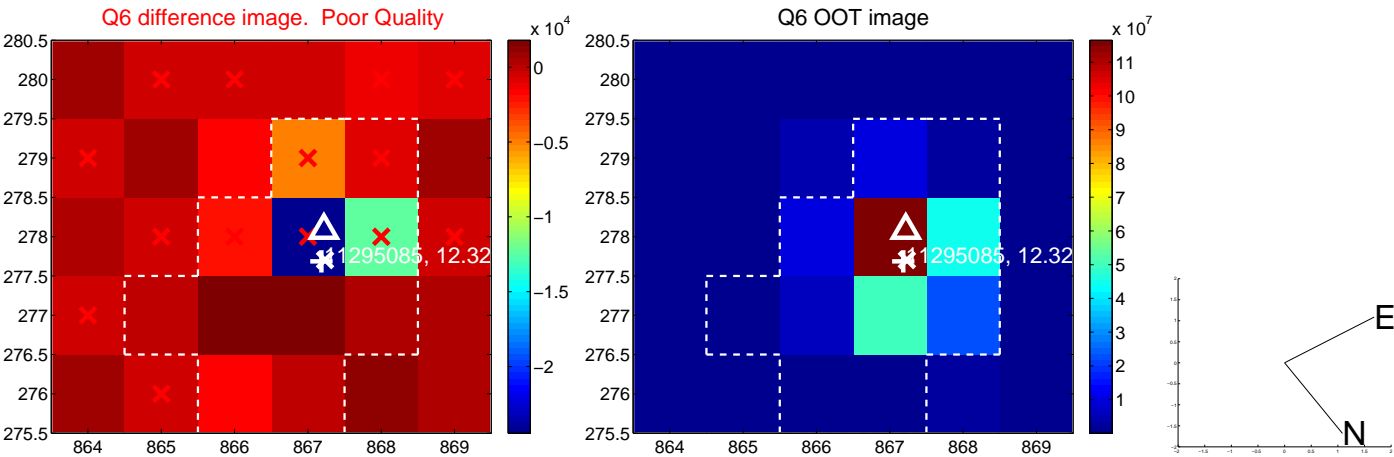
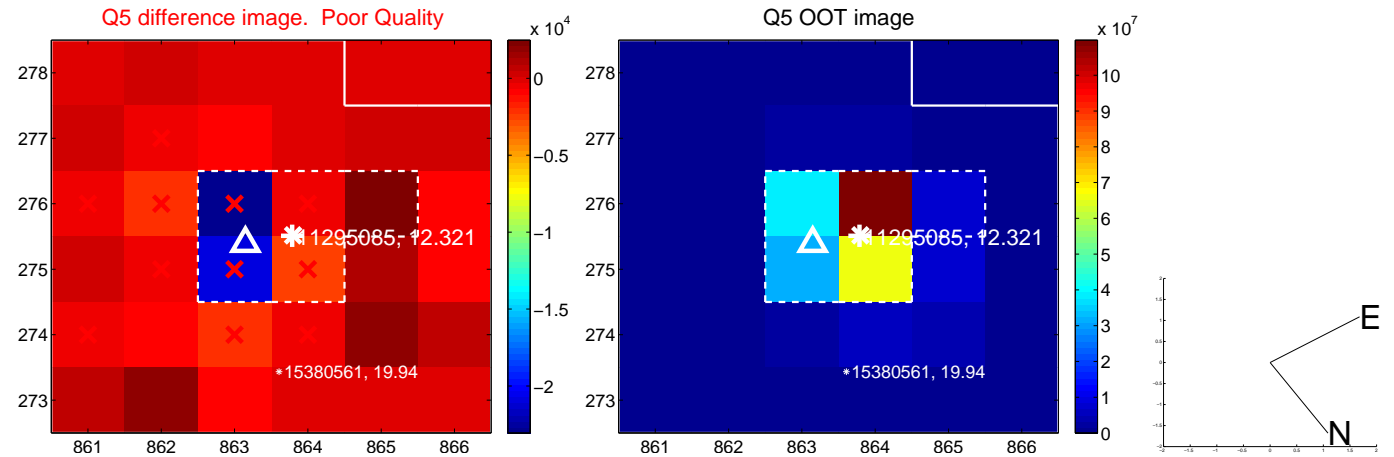


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

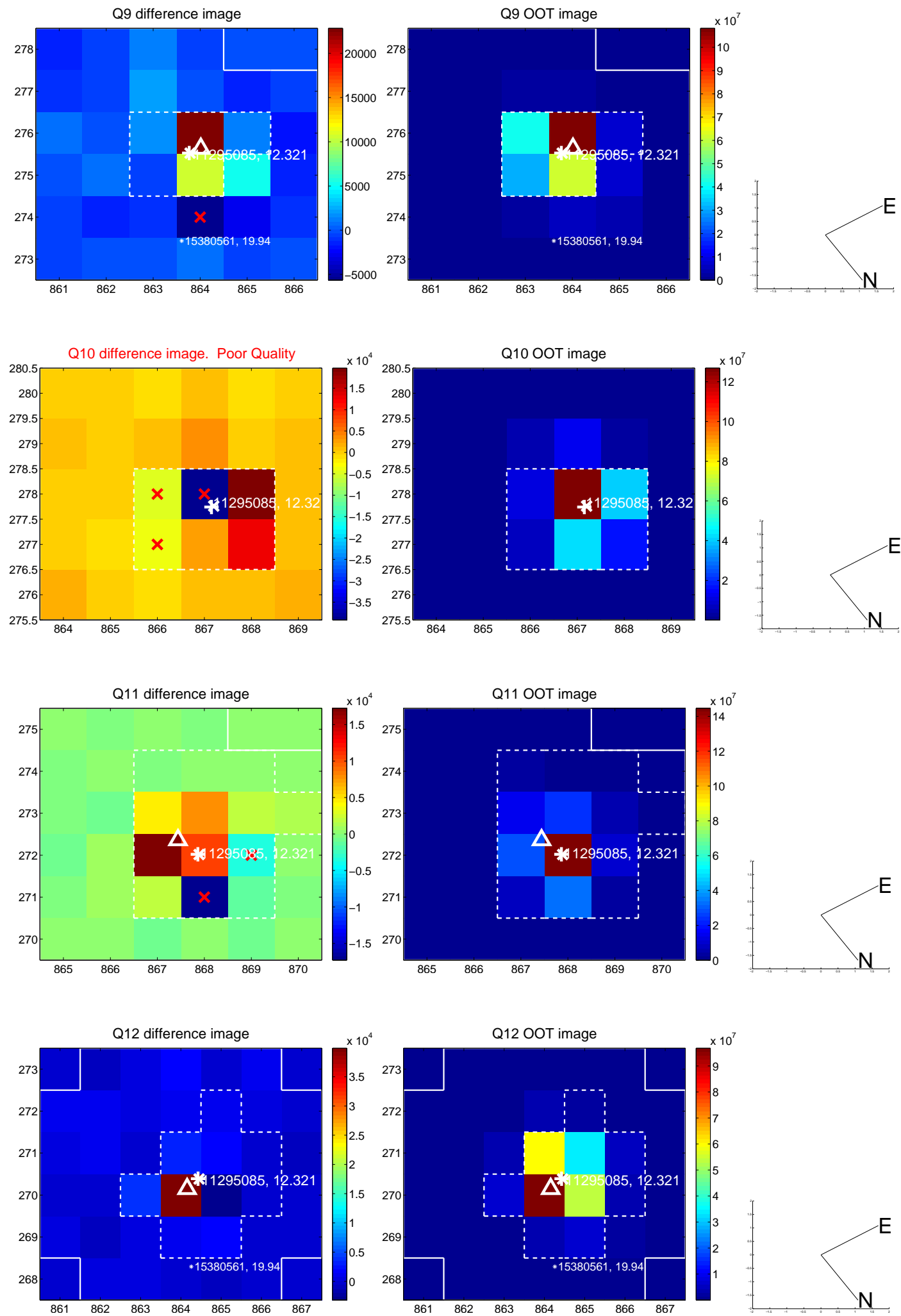
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



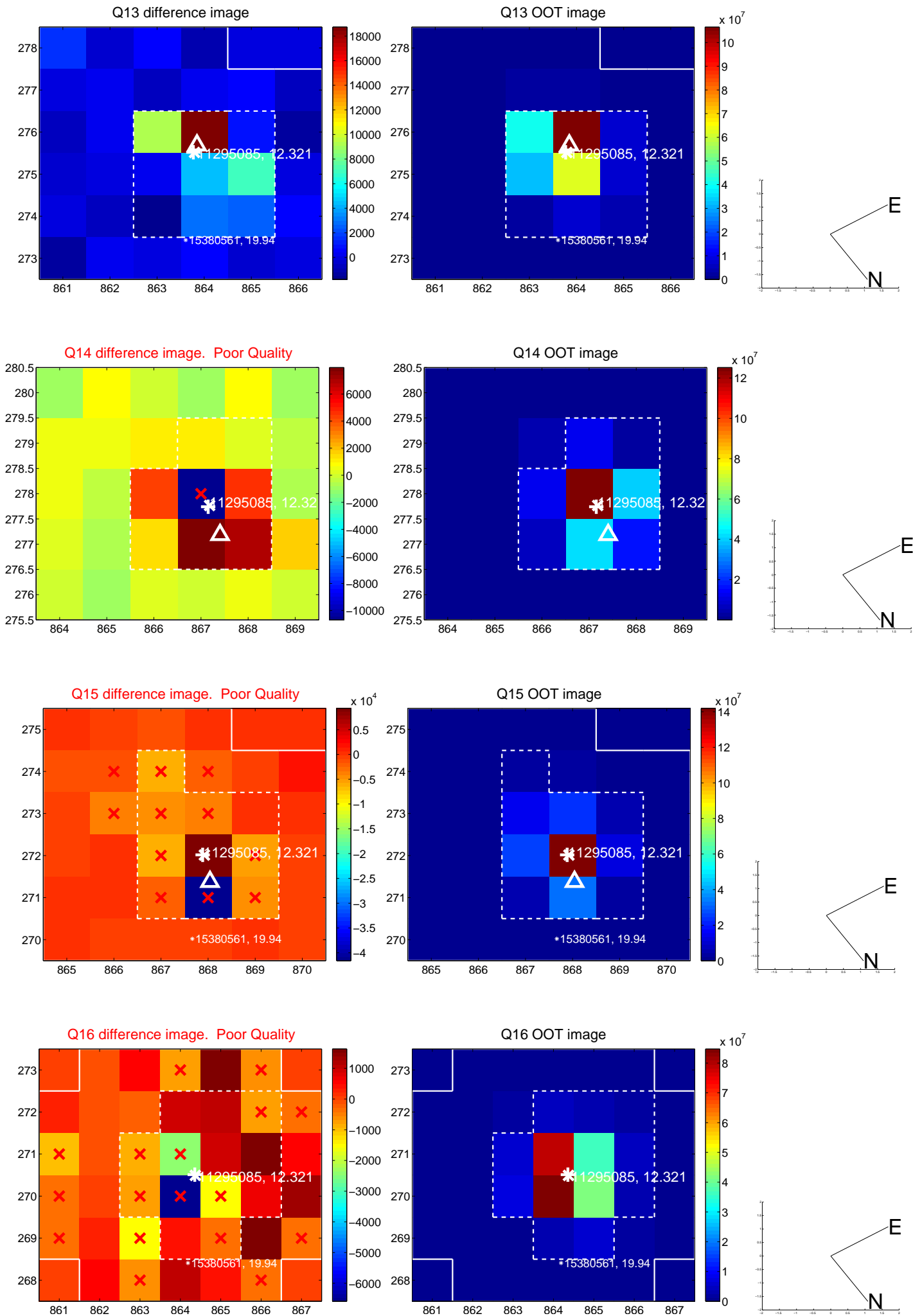
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



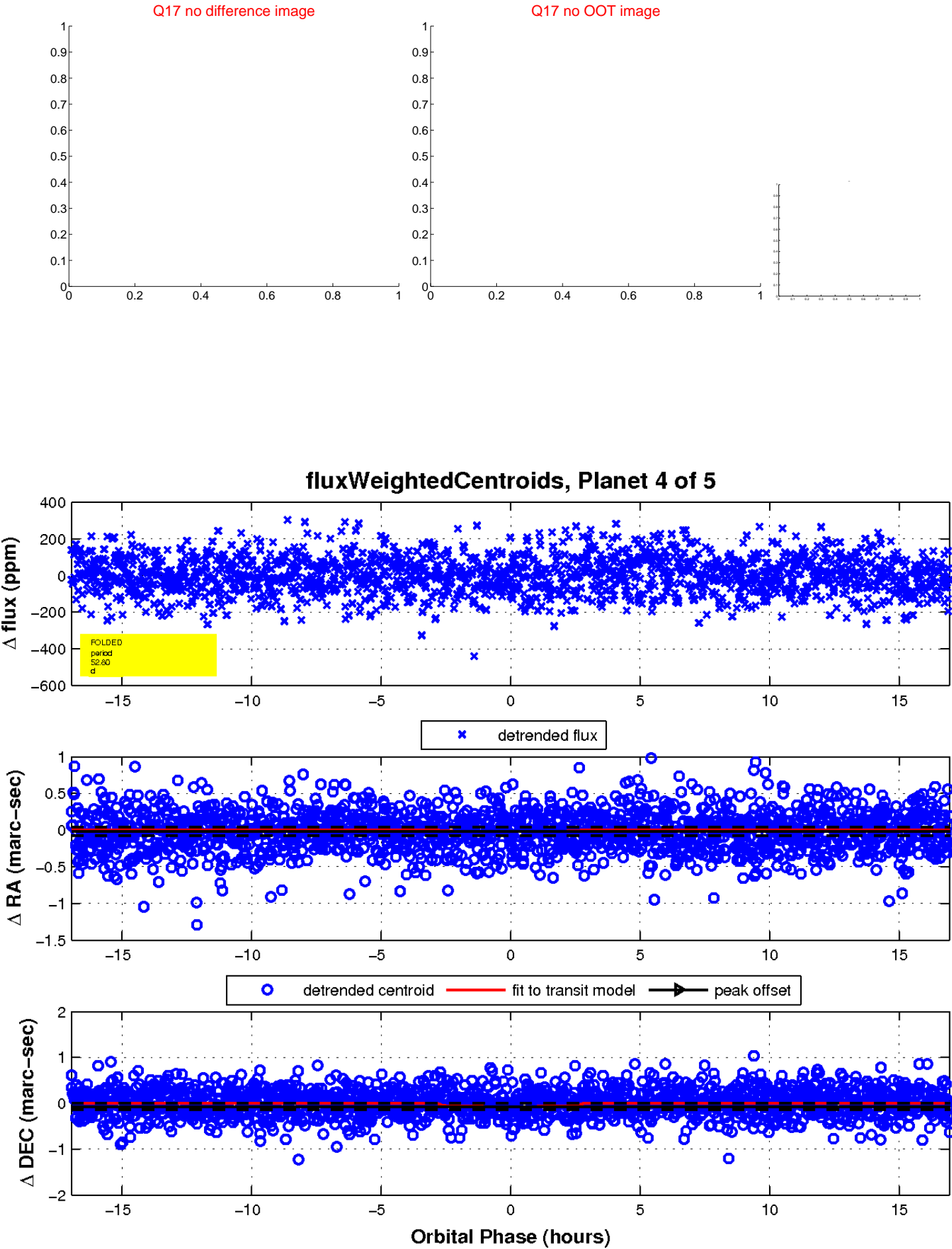
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

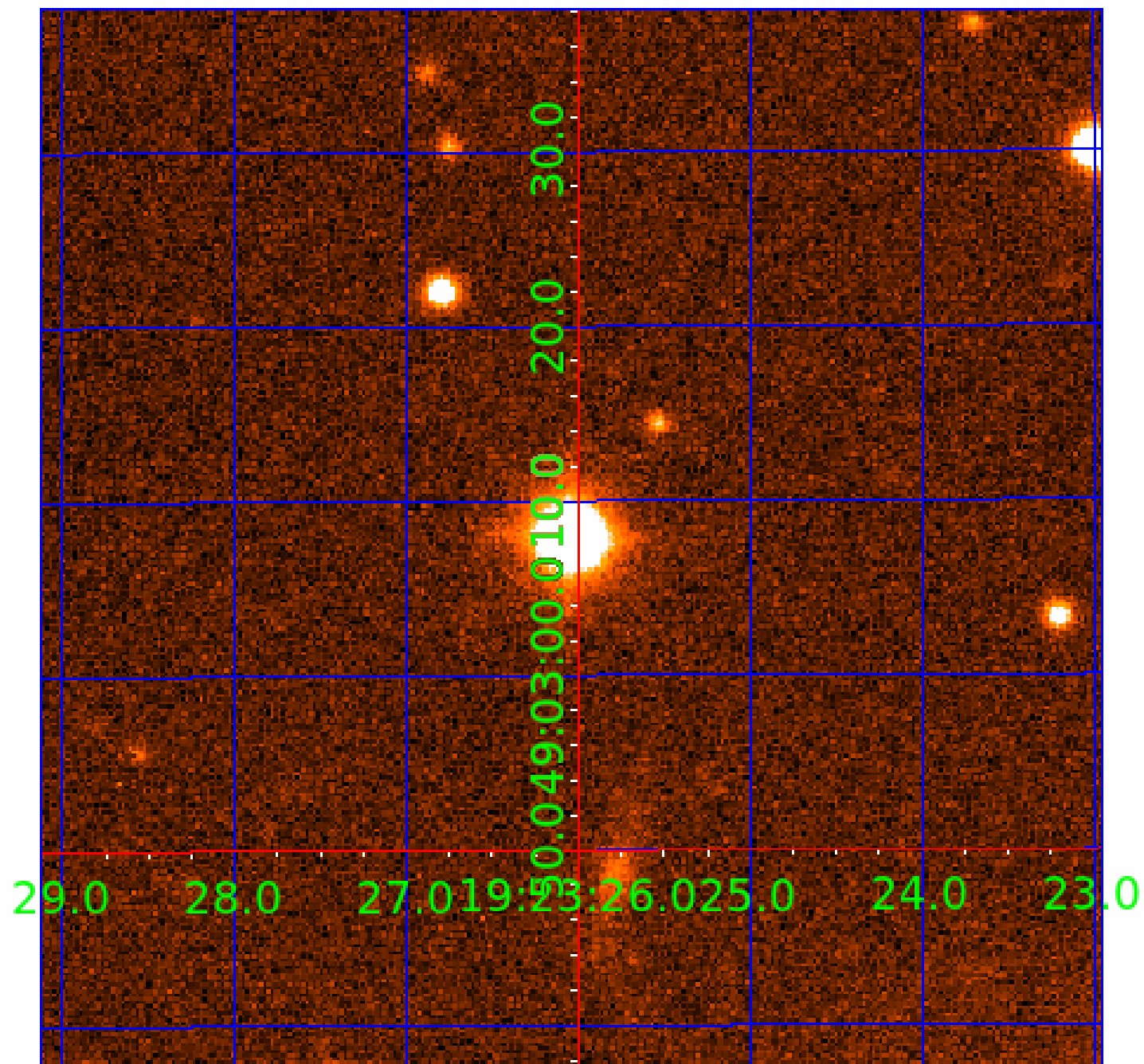


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011295085

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})
011295085-01	OBS	No	2.498129	131.661553	23.7	2.492	9.7	8.7	2.21	7117	1.27	6218.06
011295085-02	OBS	7436.01	2.497736	133.788409	22.0	2.838	9.9	8.3	2.21	7117	1.30	6219.36
011295085-03	OBS	No	2.498374	132.467865	12.4	8.157	8.7	6.4	2.21	7117	0.90	6217.25
011295085-04	OBS	No	52.803749	169.081761	74.8	5.649	8.1	4.6	2.21	7117	2.19	106.39
011295085-05	OBS	No	149.792856	152.128771	180.0	3.655	7.2	7.7	2.21	7117	3.37	26.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011295085-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011295085-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
011295085-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
011295085-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011295085-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

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

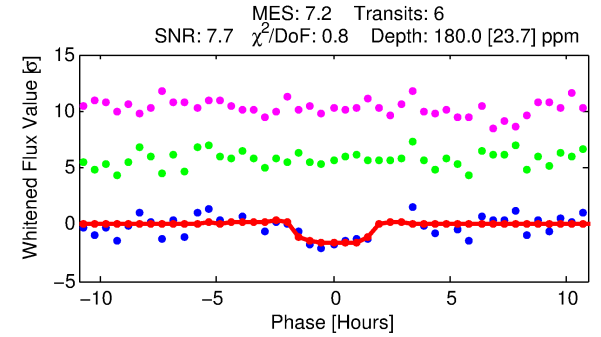
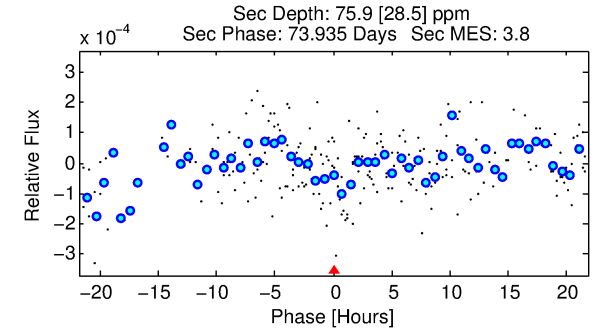
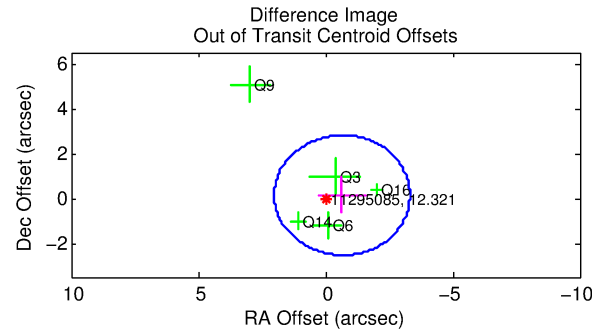
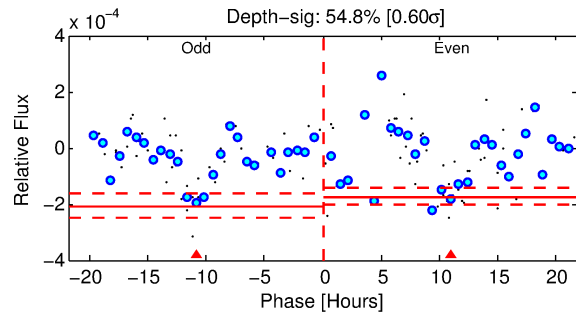
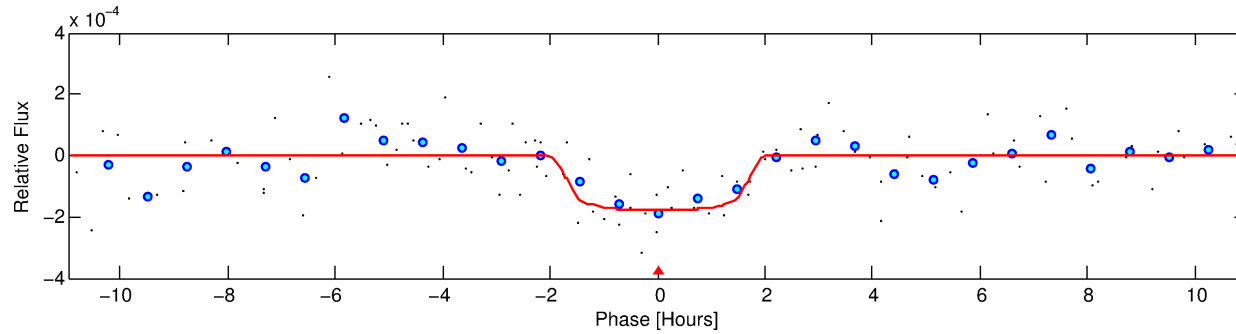
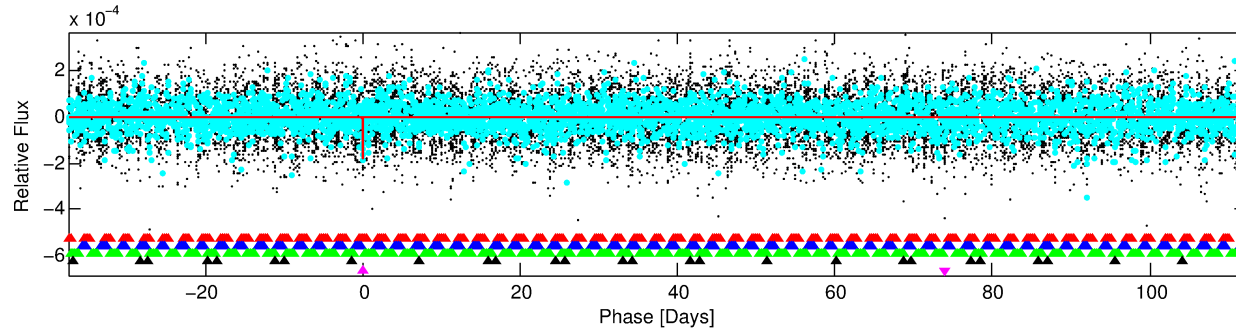
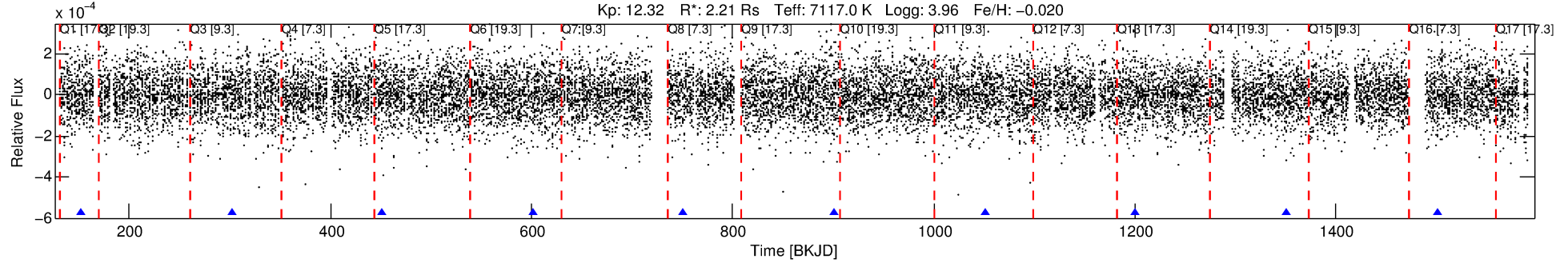
Ephemeris Match Information For 011295085-05

No Significant Match Found

DV One-Page Summary

KIC: 11295085 Candidate: 5 of 5 Period: 149.793 d
KOI: K07436 Corr: No Ephemeris Match

Kp: 12.32 R*: 2.21 Rs Teff: 7117.0 K Logg: 3.96 Fe/H: -0.020



DV Fit Results:

Period = 149.79286 [0.00208] d
Epoch = 152.1288 [0.0140] BKJD
Rp/R* = 0.0140 [0.0063]
a/R* = 164.41 [448.40]
b = 0.87 [0.79]
Seff = 26.49 [10.32]
Teq = 579 [56] K
Rp = 3.37 [1.75] Re
a = 0.6513 [0.1525] AU
Ag = 1557.74 [1623.60] [0.96σ]
Teffp = 5619 [1388] K [3.63σ]

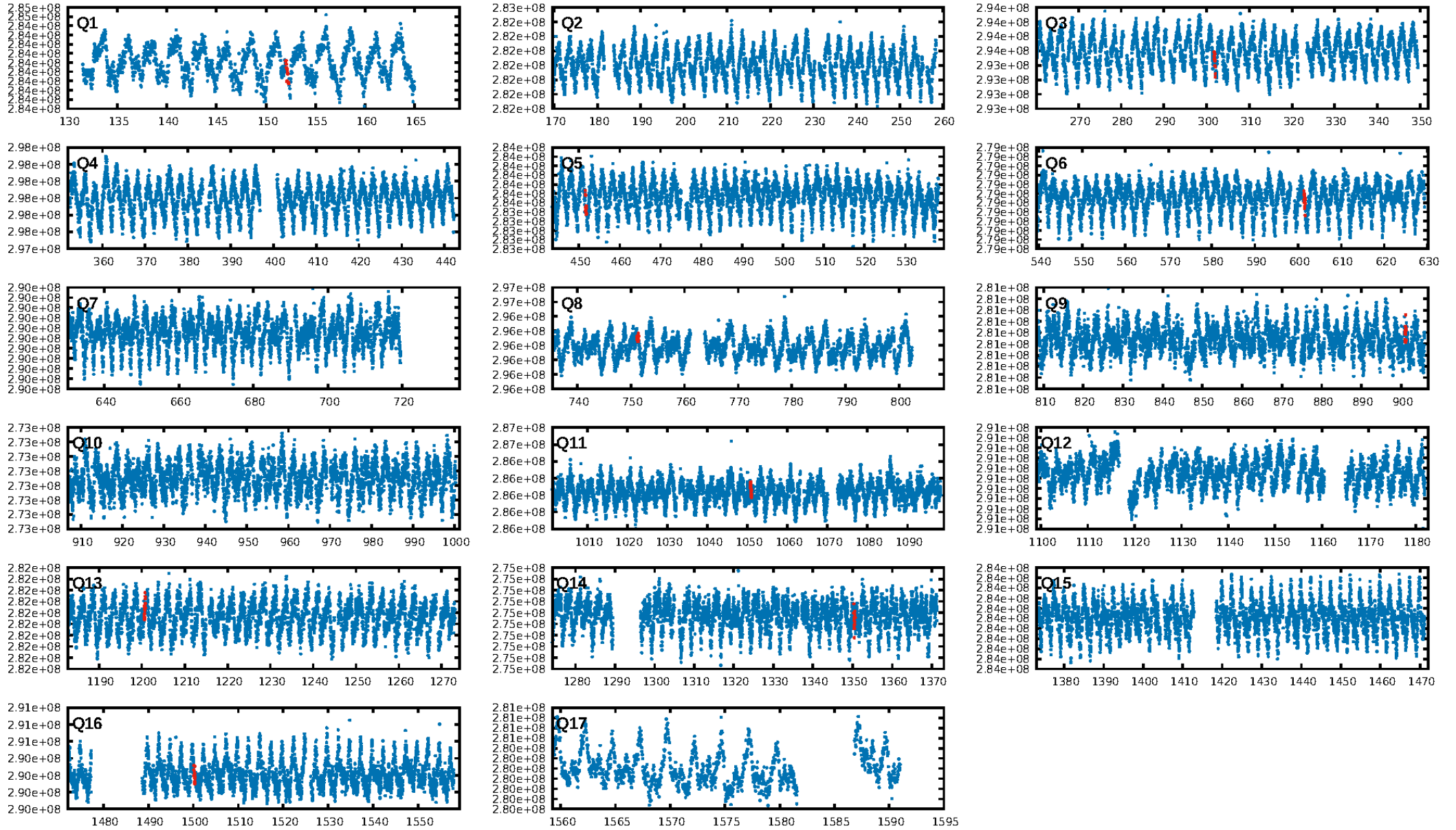
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [345.96σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 86.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.07e-08
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 2.505
Centroid-sig: 94.3%
Centroid-so: 0.168 arcsec [0.28σ]
OotOffset-rm: 0.667 arcsec [0.75σ]
KicOffset-rm: 0.765 arcsec [0.91σ]
OotOffset-st: 2/1/1/1 [5]
KicOffset-st: 2/1/1/1 [5]
DiffImageQuality-fgm: 0.40 [2/5]
DiffImageOverlap-fno: 0.00 [0/9]

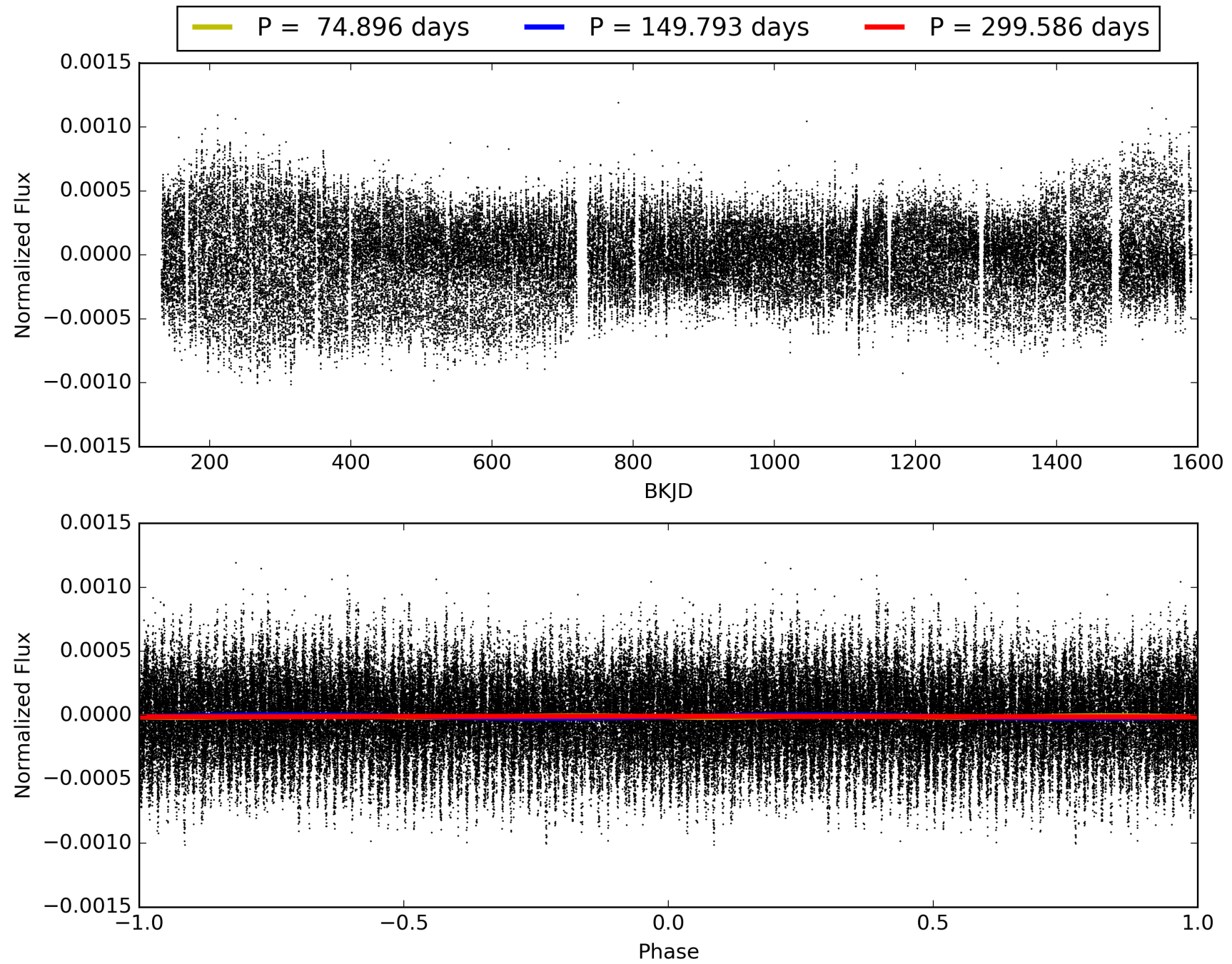
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:12:48 Z

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

TCE 011295085-05, PDC Light Curves

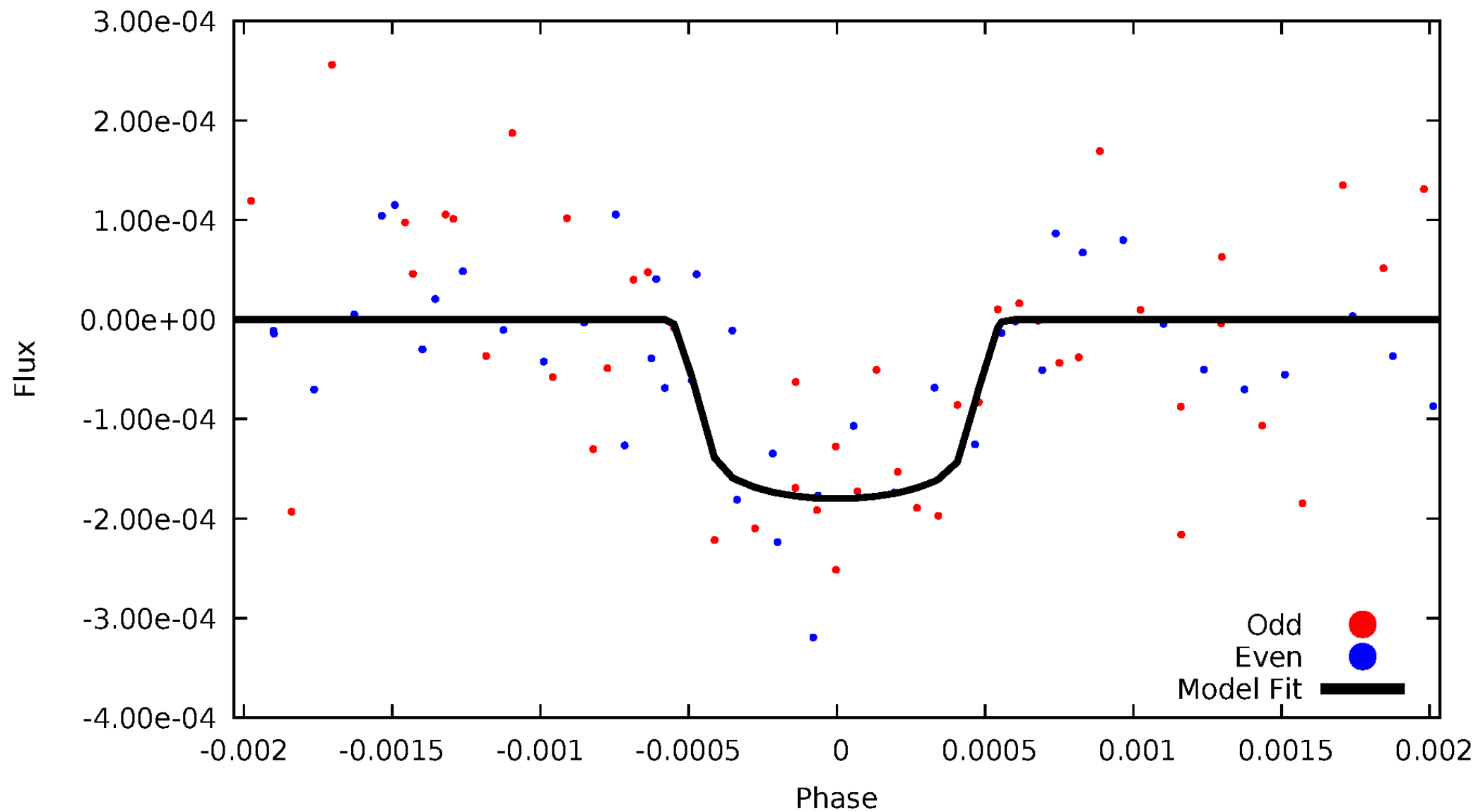


TCE 011295085-05



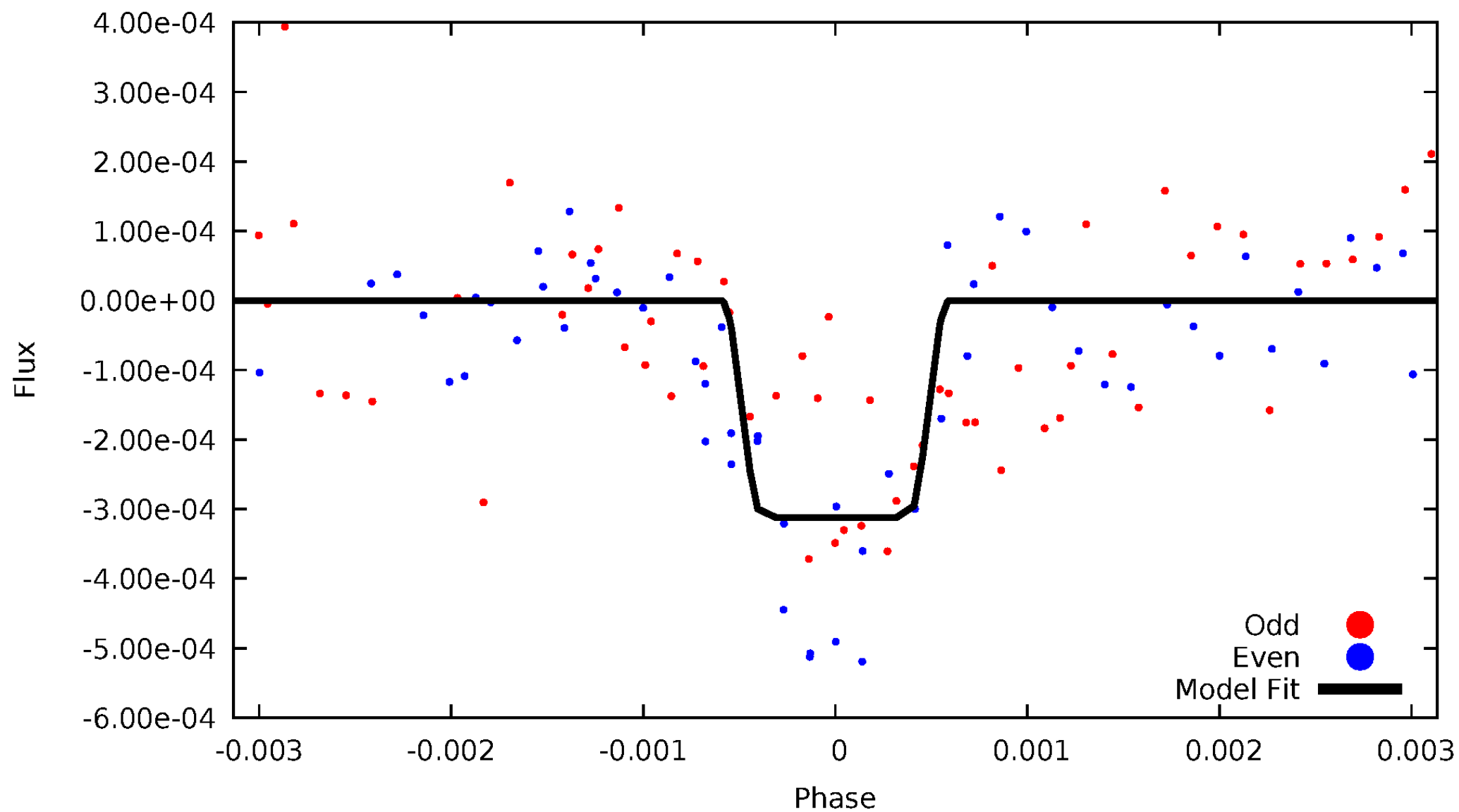
DV Odd/Even

TCE 011295085-05



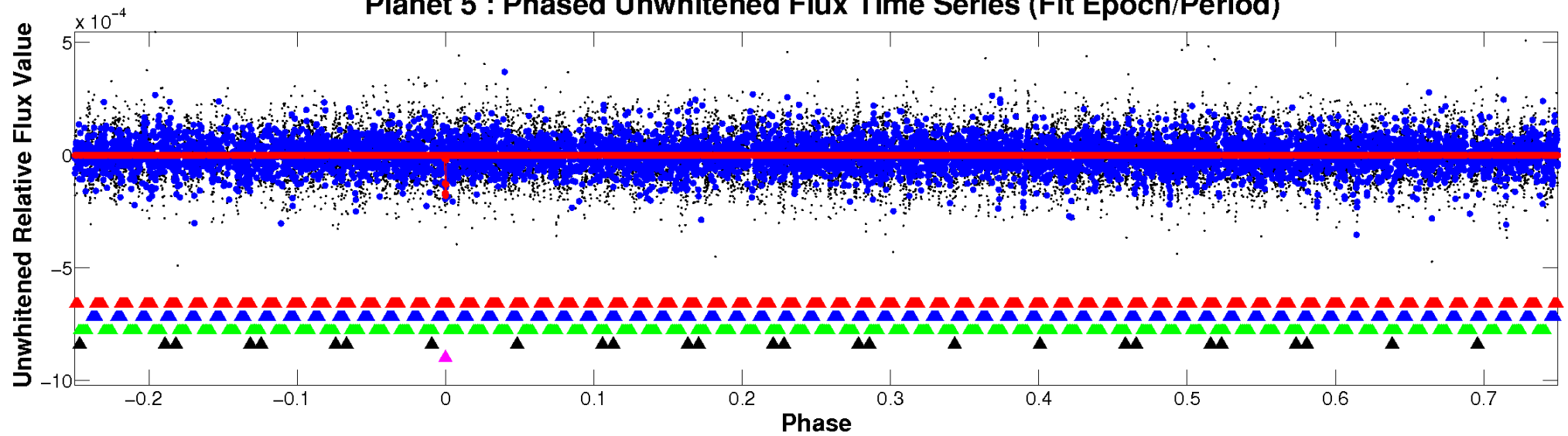
ALT Odd/Even

TCE 011295085-05

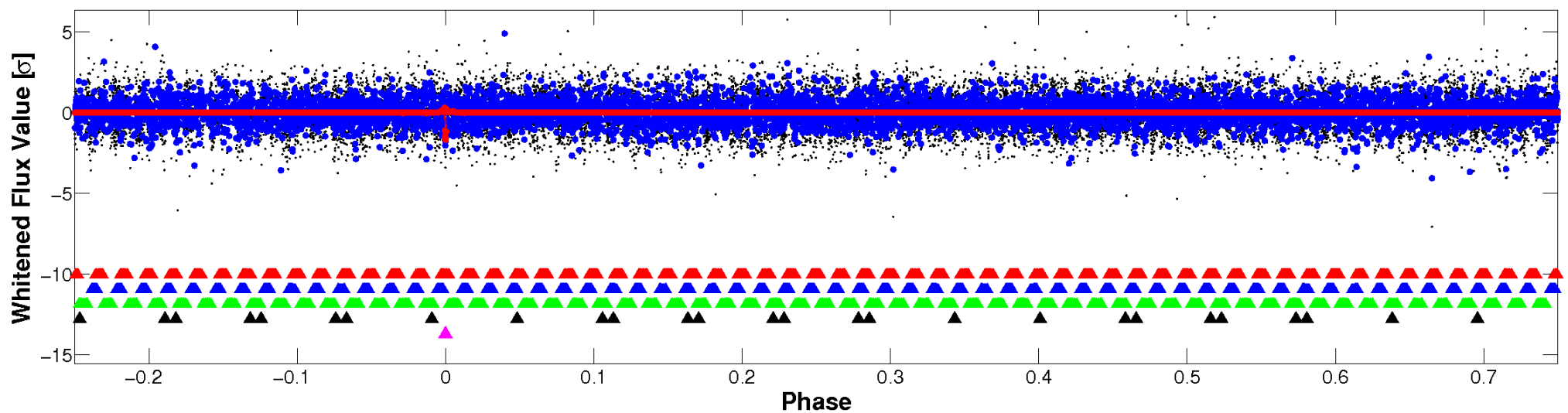


Non-Whitened Vs. Whitened Light Curve

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

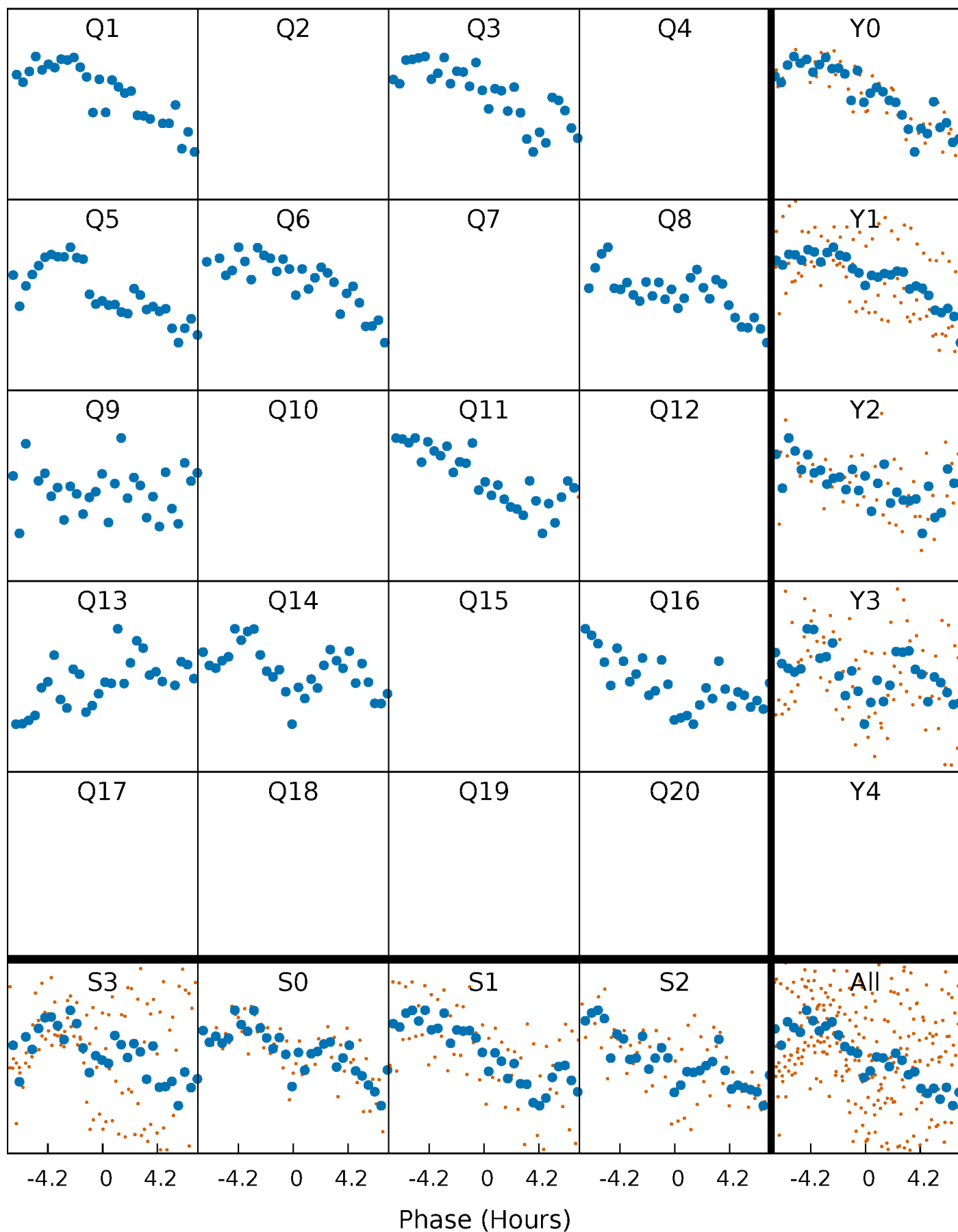


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



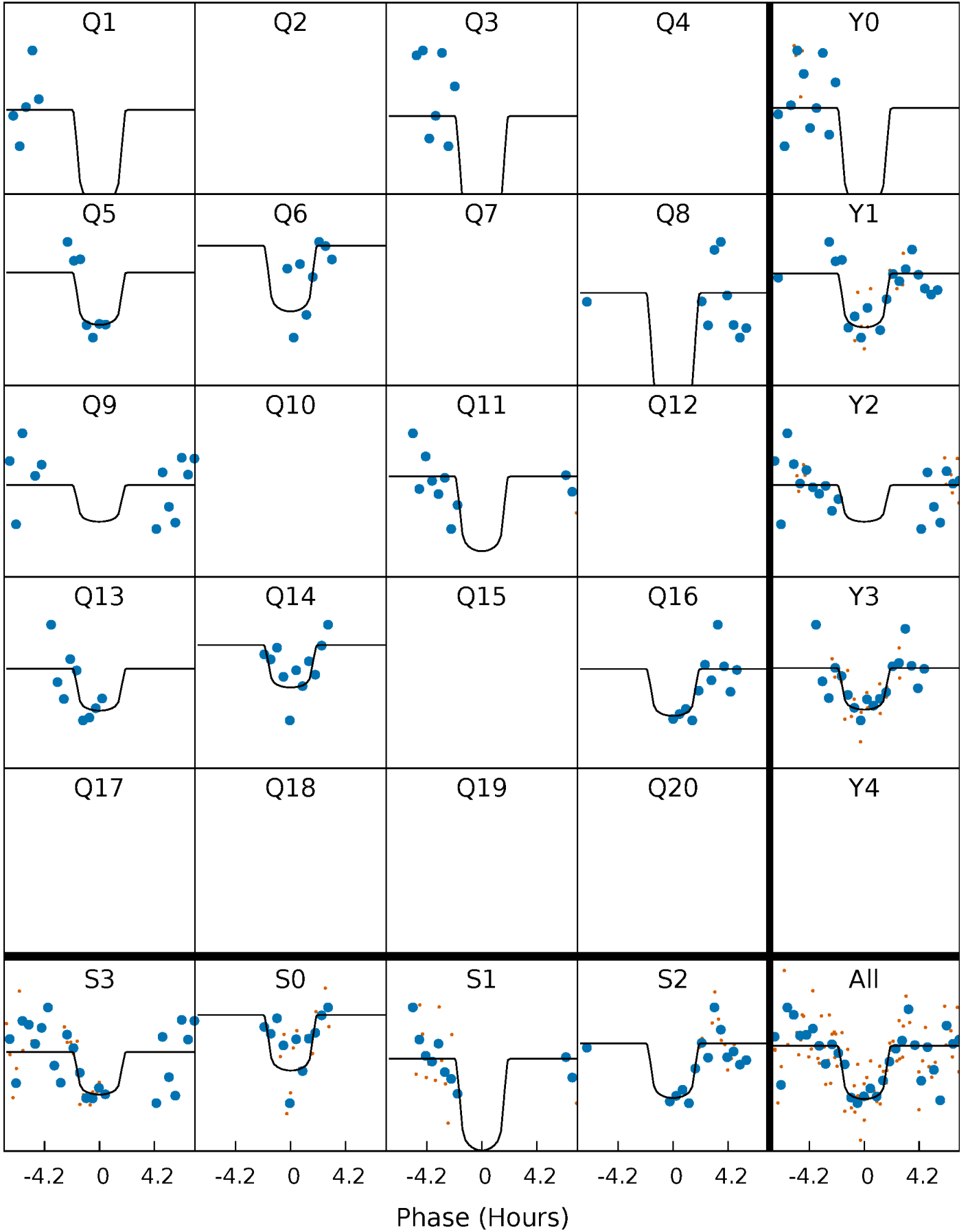
PDC Quarter-Phased Transit Curves

TCE 011295085-05 $P=149.792856$ Days $T_0=152.128771$ (BKJD)



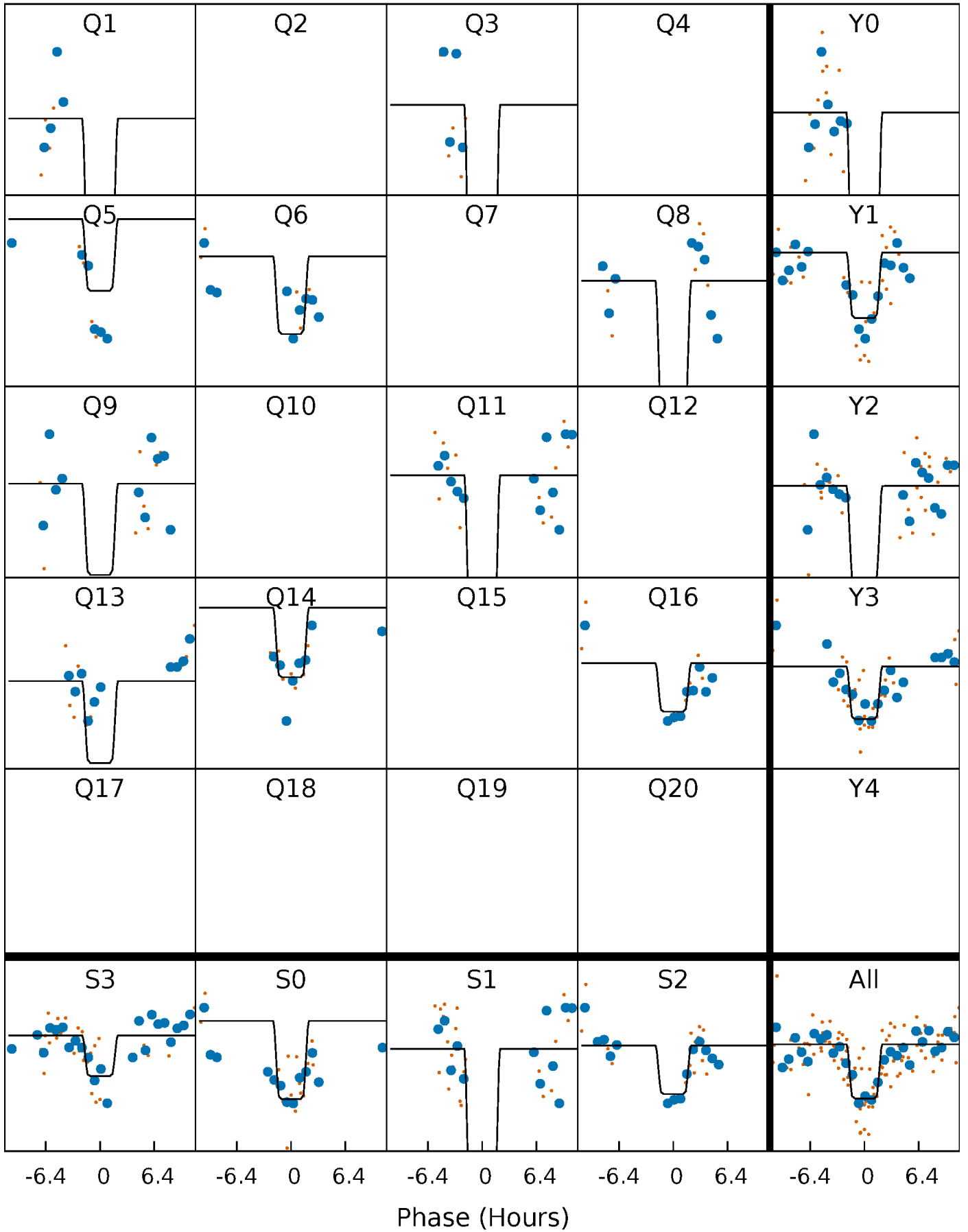
DV Quarter-Phased Transit Curves

TCE 011295085-05 P=149.792856 Days $T_0=152.128771$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

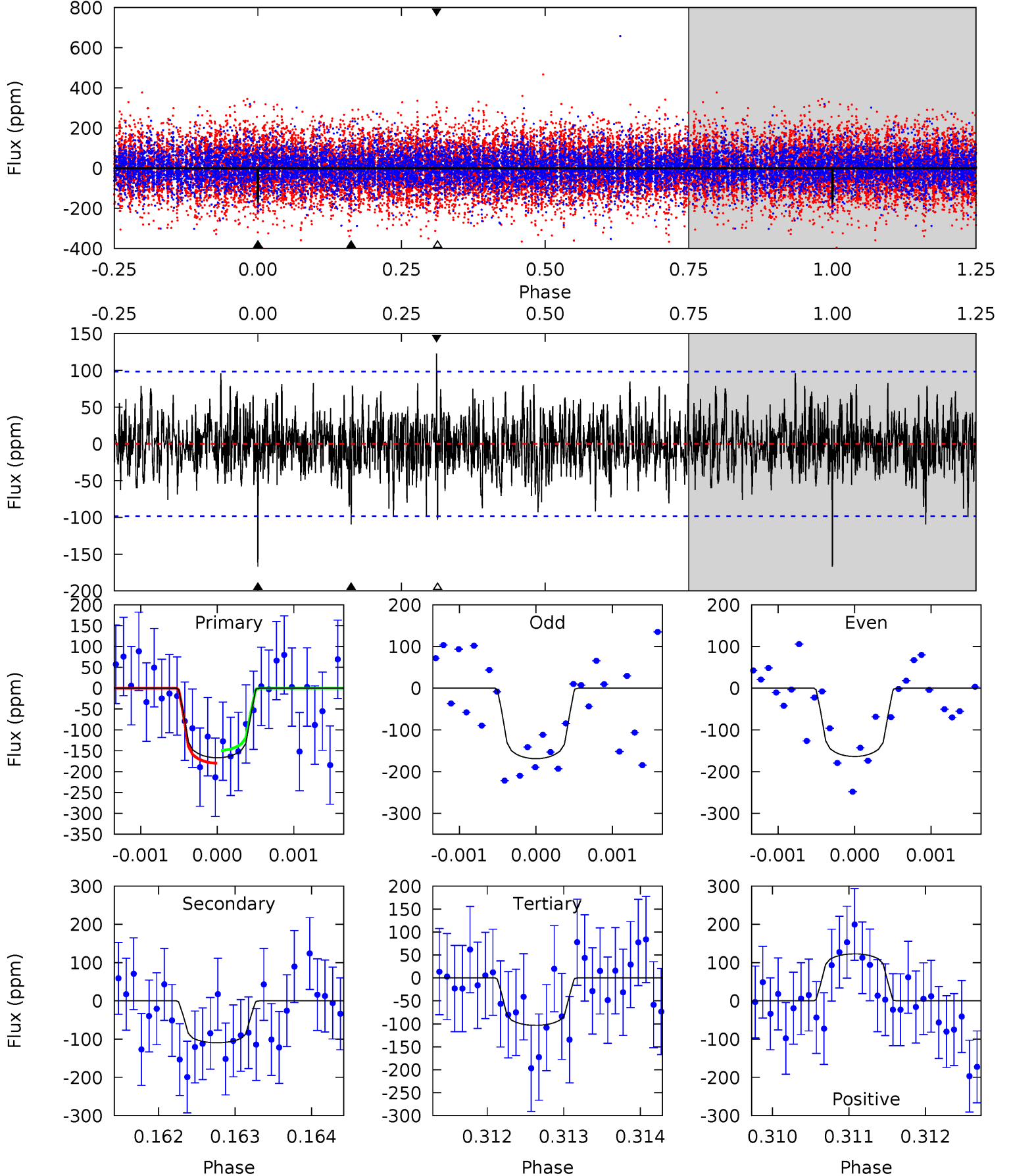
TCE 011295085-05 $P=149.795800$ Days $T_0=152.112795$ (BKJD)



DV Model-Shift Uniqueness Test

011295085-05, P = 149.792856 Days, E = 2.335915 Days

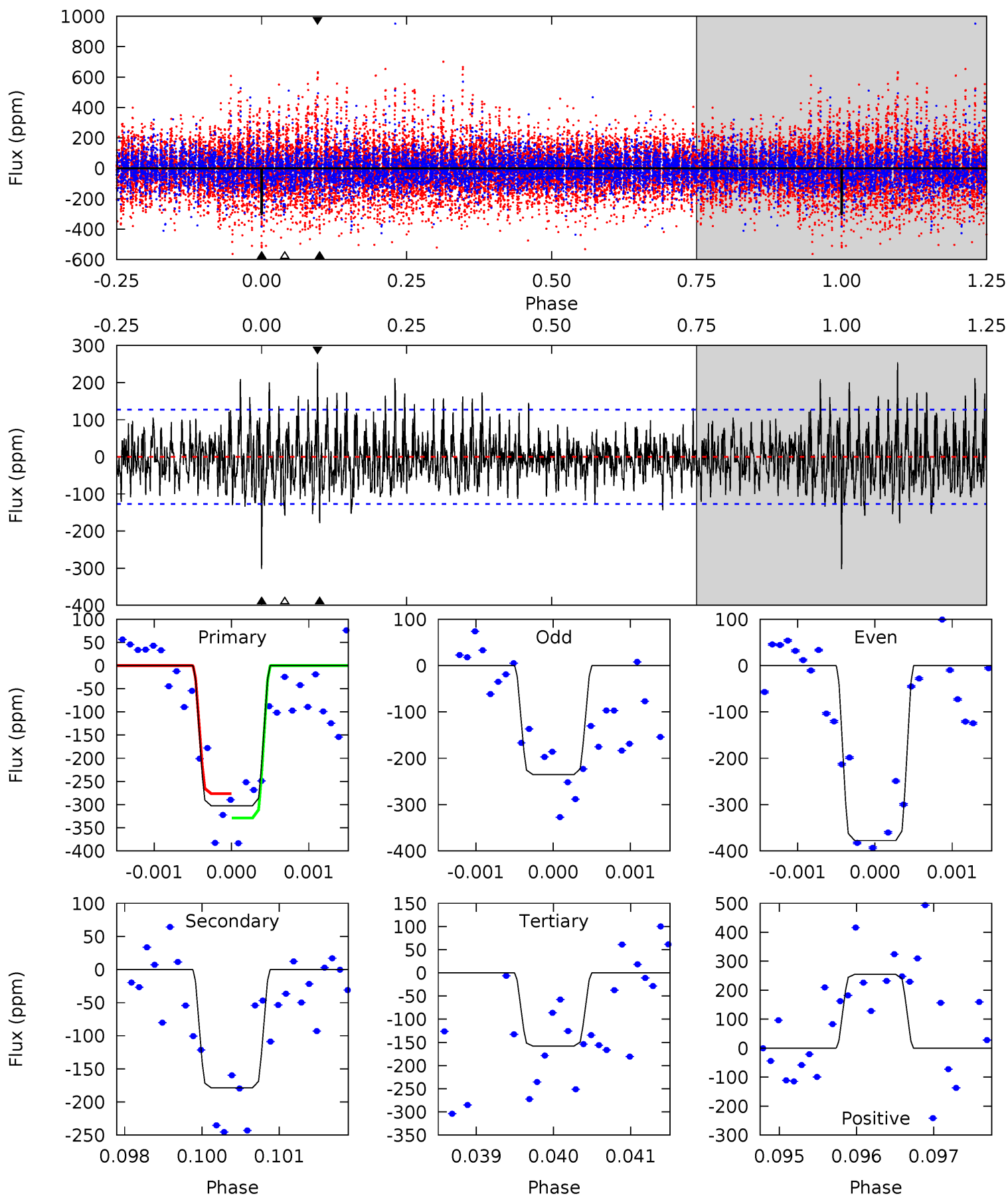
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.21	6.05	5.70	6.78	5.44	3.27	1.57	3.51	2.43	0.34	-0.74	0.14	0.93	0.42	0.84



Alt Model-Shift Uniqueness Test

011295085-05, P = 149.795800 Days, E = 2.316995 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	7.64	6.75	10.9	5.42	3.25	2.20	6.18	2.04	0.89	-3.25	3.04	0.88	0.46	1.13



Stellar Parameters For KIC 011295085

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7117^{+170}_{-255}	$3.964^{+0.208}_{-0.128}$	$-0.020^{+0.250}_{-0.300}$	$2.211^{+0.464}_{-0.568}$	$1.641^{+0.179}_{-0.268}$	$0.214^{+0.232}_{-0.082}$
	+2%/-4%	+5%/-3%	+1250%/-1500%	+21%/-26%	+11%/-16%	+109%/-38%
Source	PHO1	FLK73	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 011295085-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-109 ± 18	$3.32^{+1.57}_{-1.59}$	799^{+51}_{-61}	6039^{+2473}_{-980}	2331^{+5987}_{-1288}
Alt.	-179 ± 23	$4.07^{+1.63}_{-1.52}$	800^{+49}_{-59}	6169^{+1807}_{-896}	2573^{+3808}_{-1311}

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 $A_{obs} \gg 1.0$

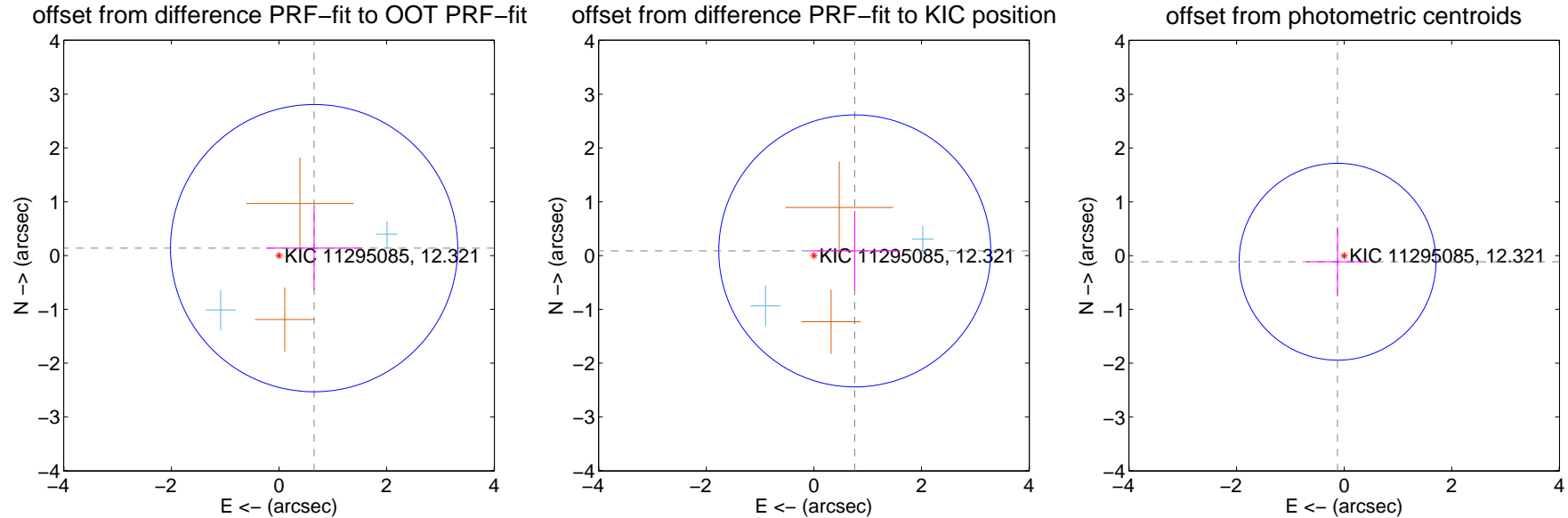
DV Centroid Data

Supplemental centroid analysis for 011295085-05. Kepler magnitude: 12.32. Transit SNR 7.68

There are 2 quarters with good PRF difference image offsets

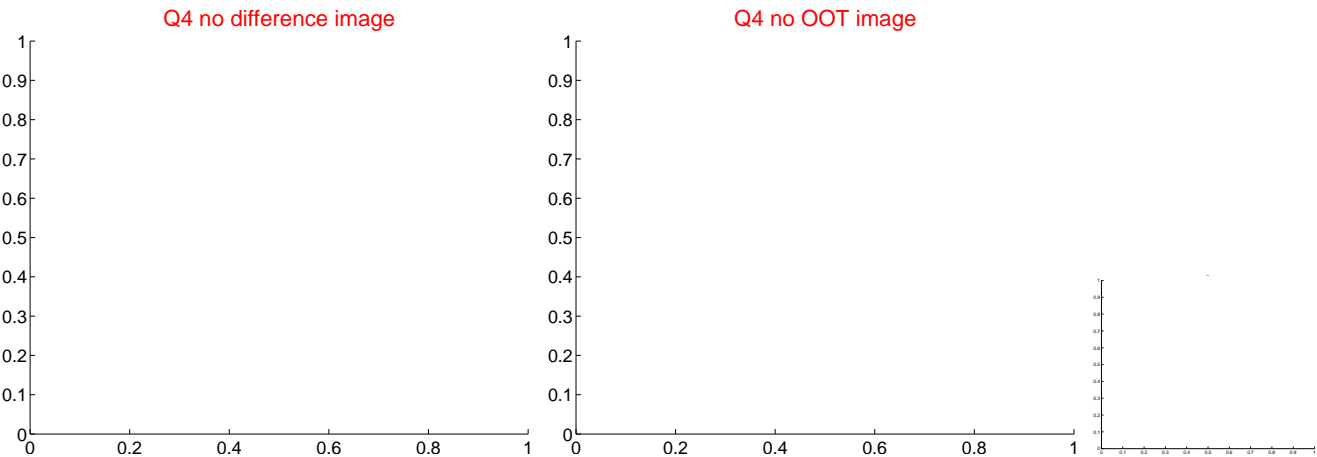
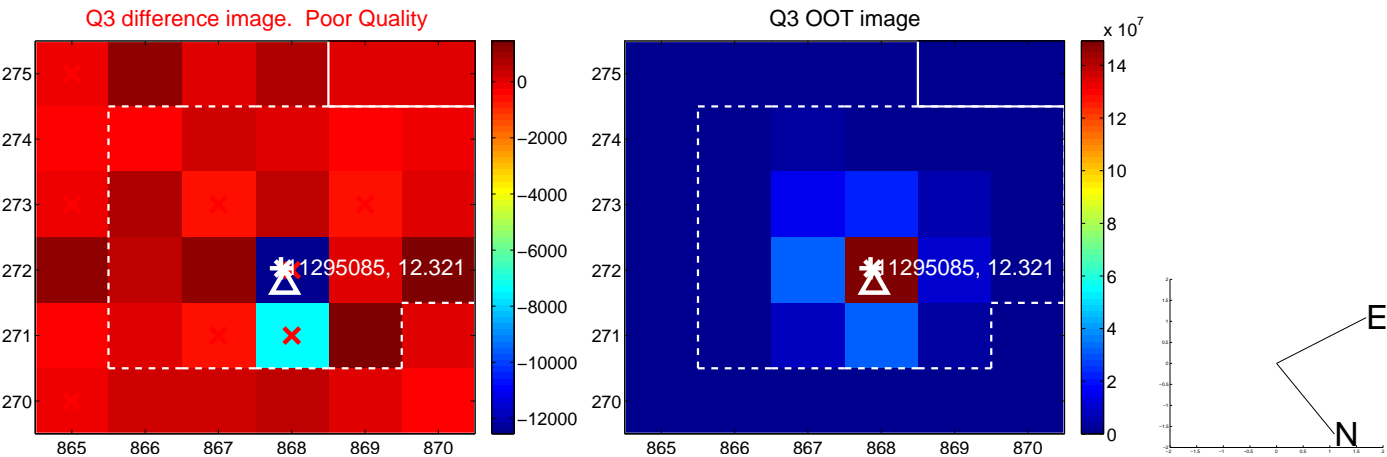
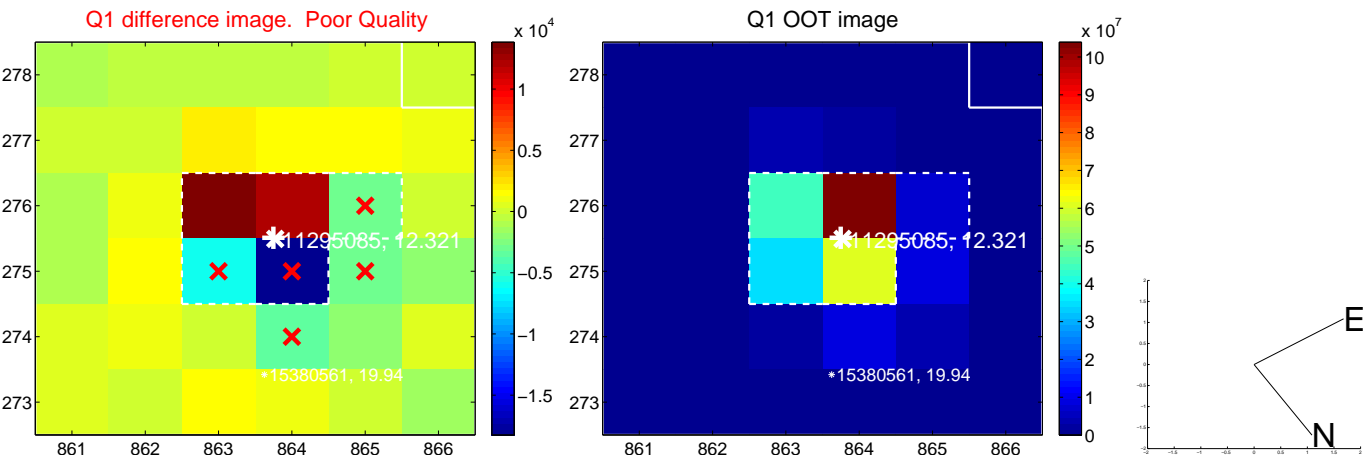
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.667 ± 0.890	0.75	-0.653 ± 0.895	0.137 ± 0.781
PRF-fit source offset from KIC position	0.765 ± 0.843	0.91	-0.760 ± 0.844	0.086 ± 0.742
photometric centroid source offset	0.17 ± 0.61	0.28	0.12 ± 0.58	-0.11 ± 0.65

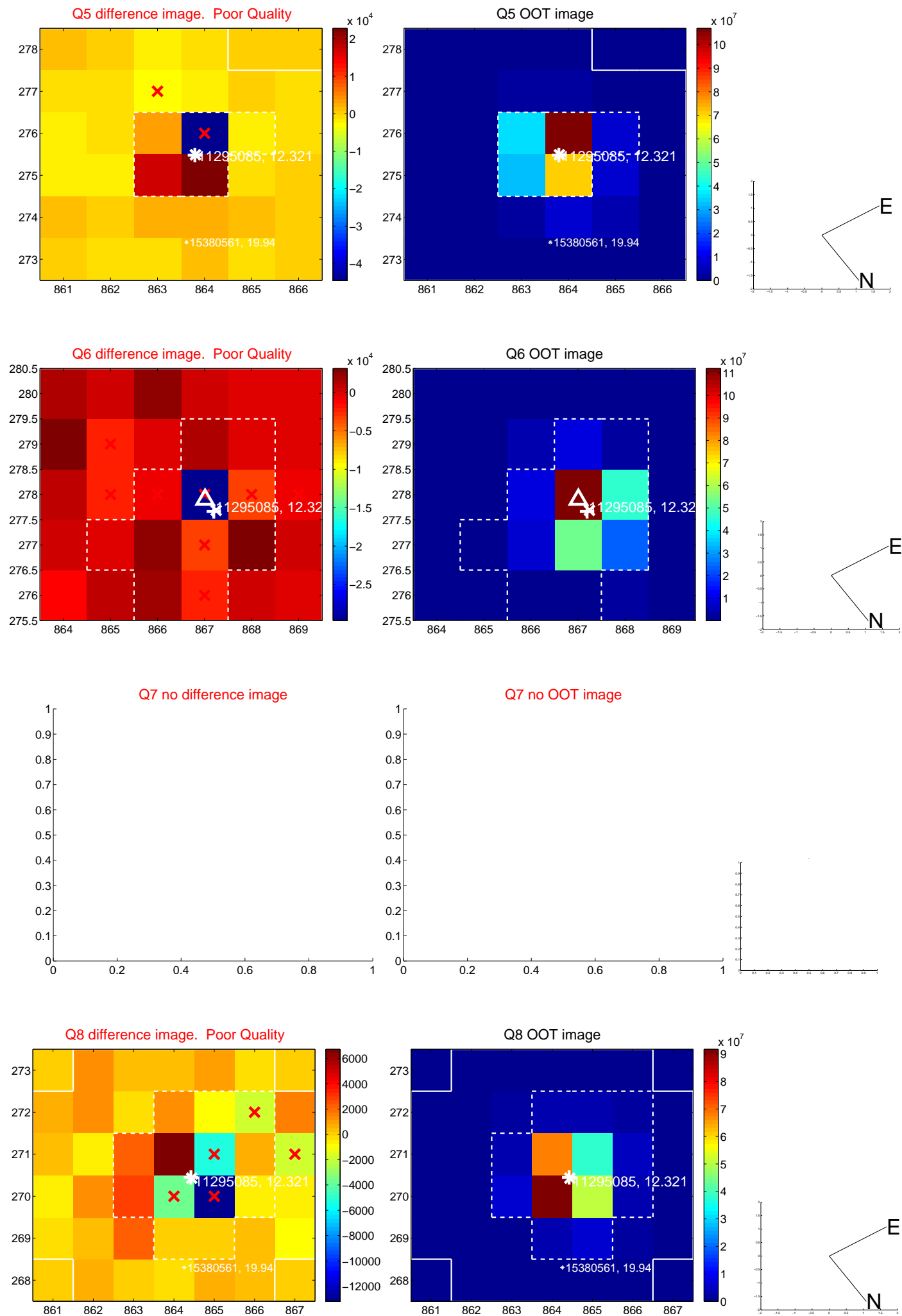


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

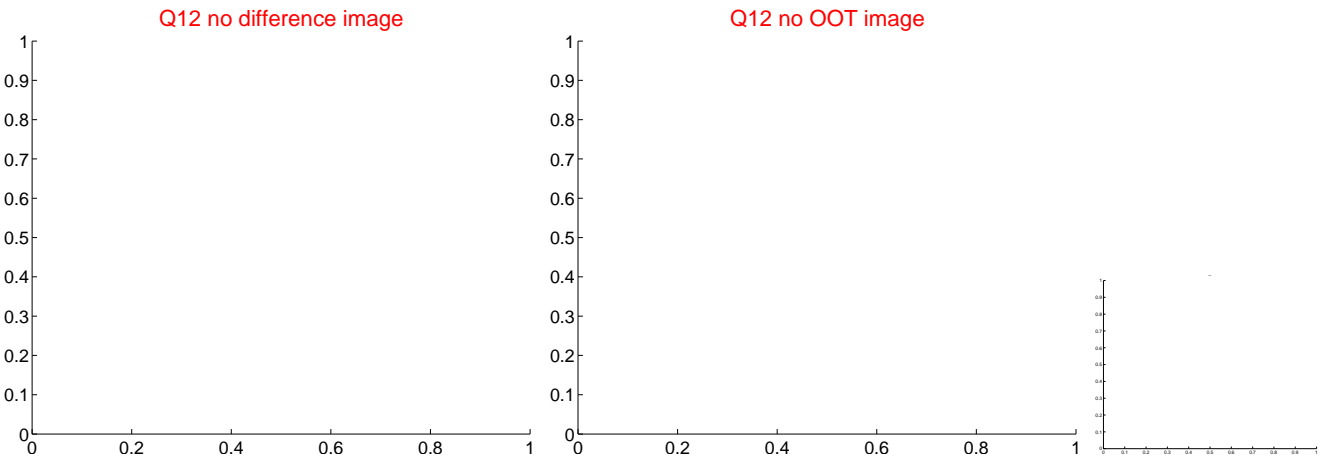
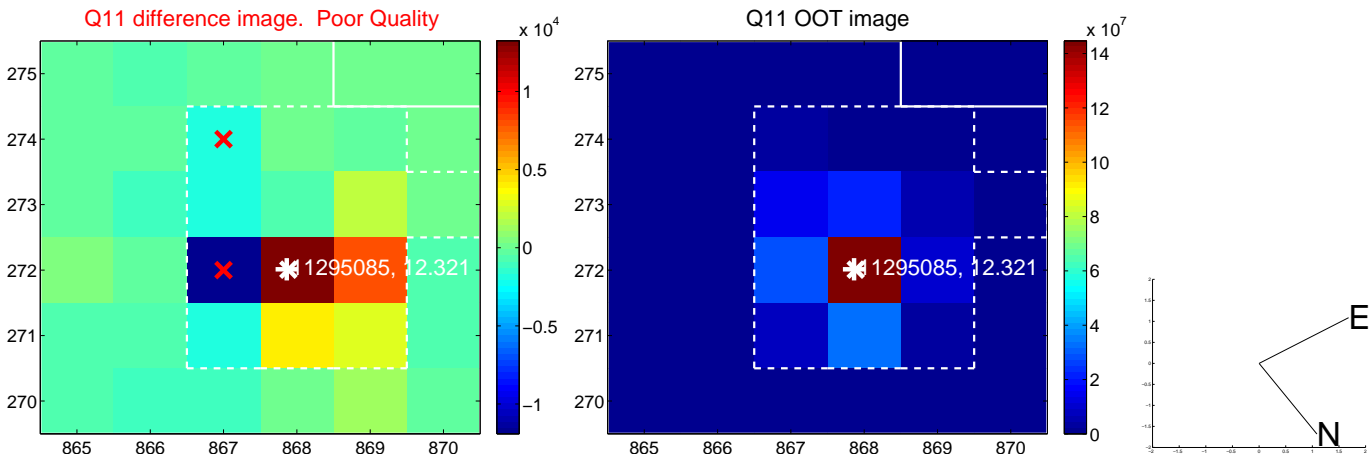
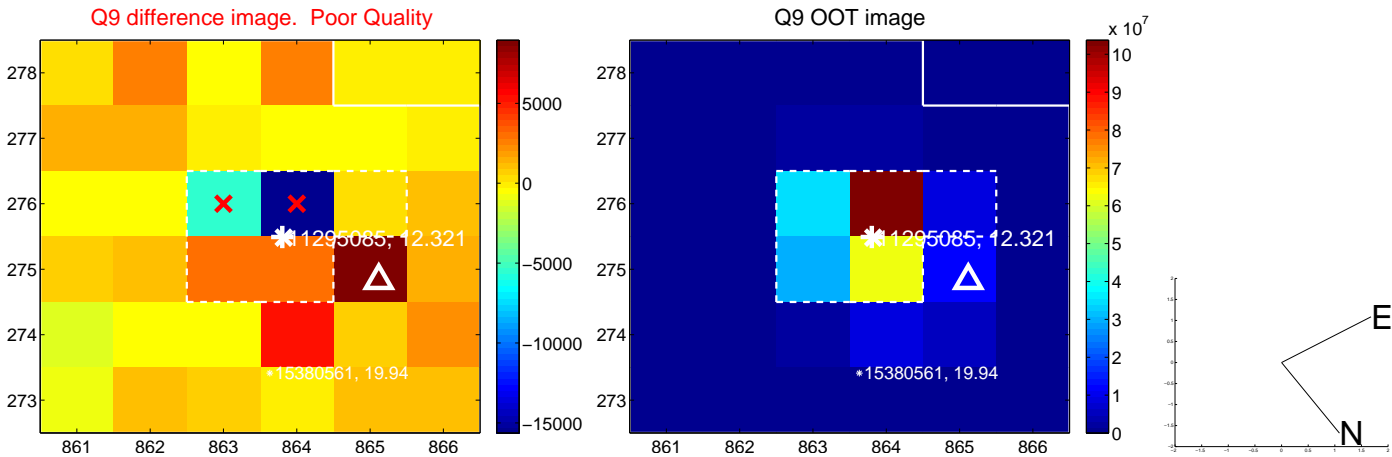
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



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



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

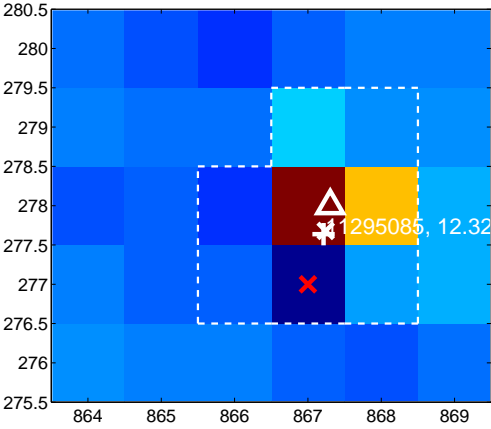
Q13 no difference image



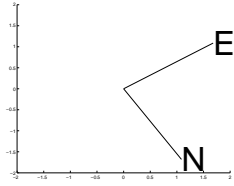
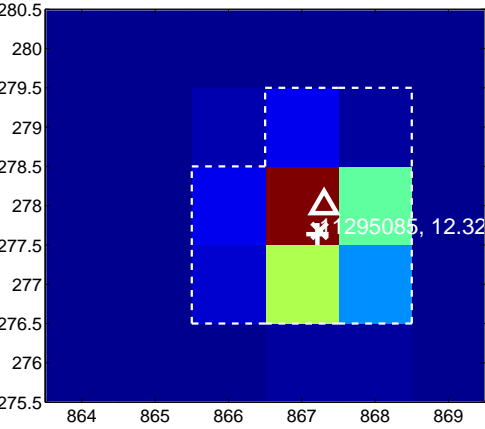
Q13 no OOT image



Q14 difference image



Q14 OOT image



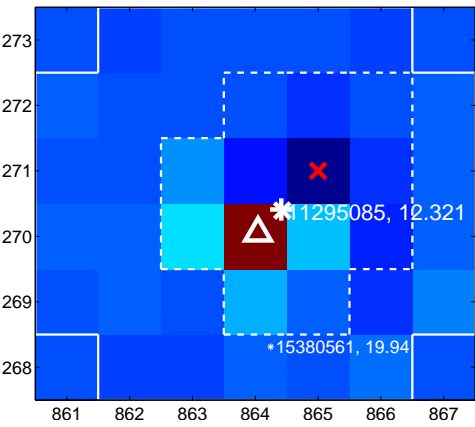
Q15 no difference image



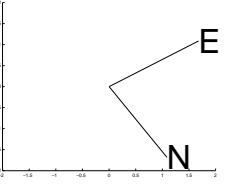
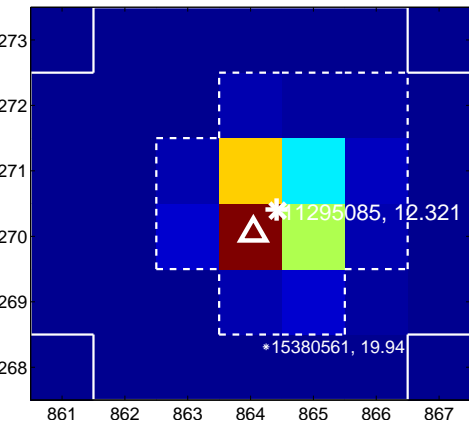
Q15 no OOT image



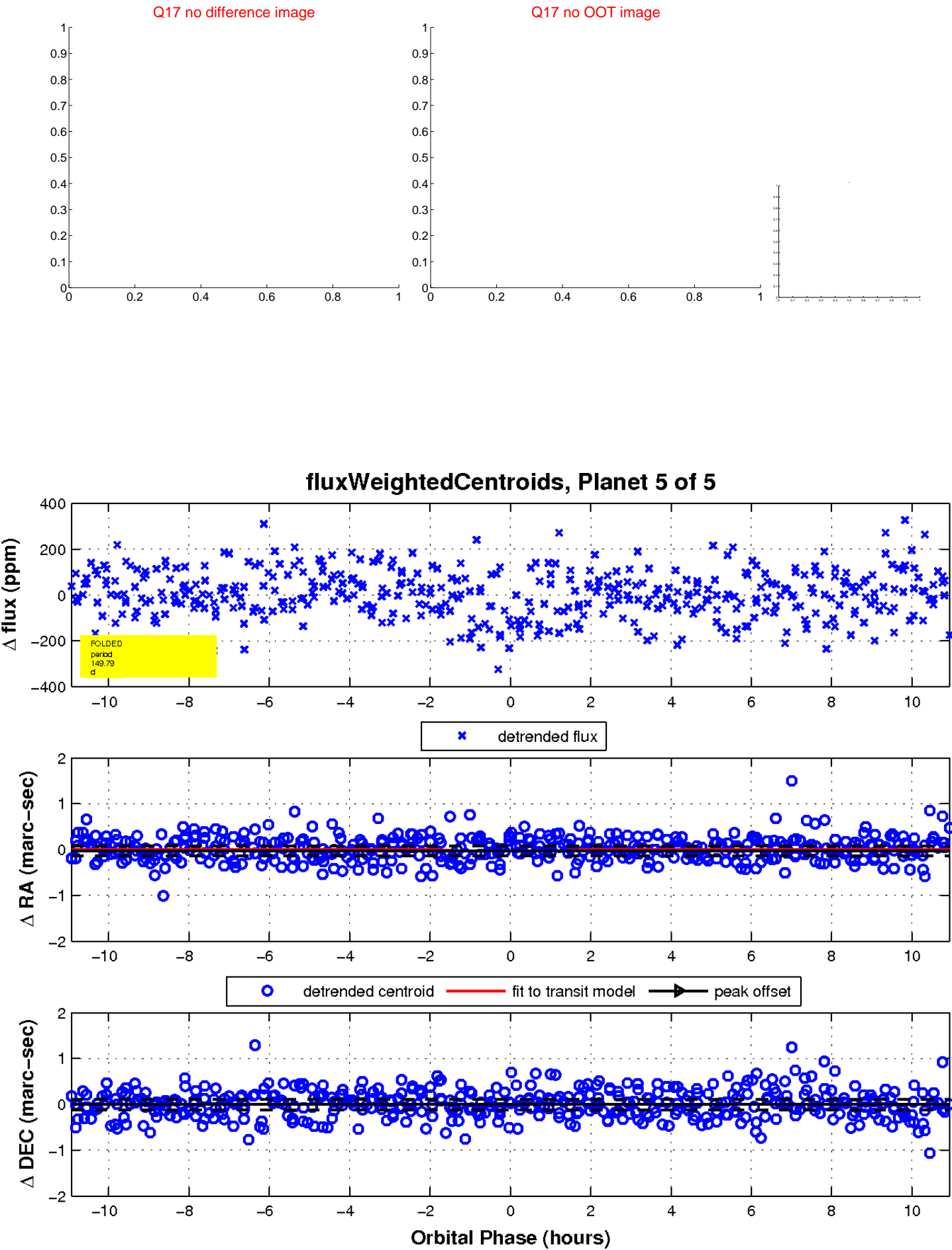
Q16 difference image



Q16 OOT image



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



UKIRT Image

Declination

