

KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

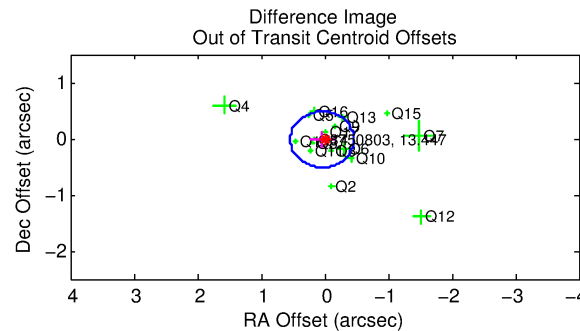
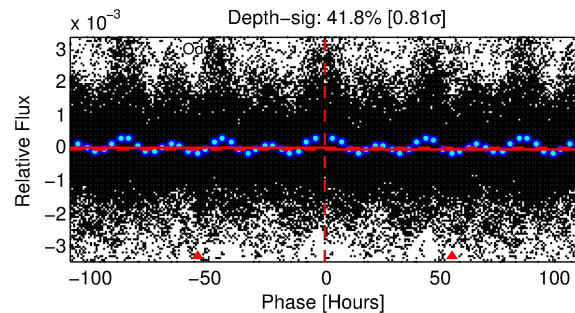
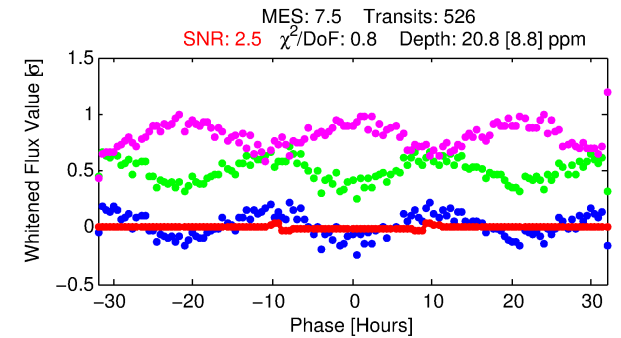
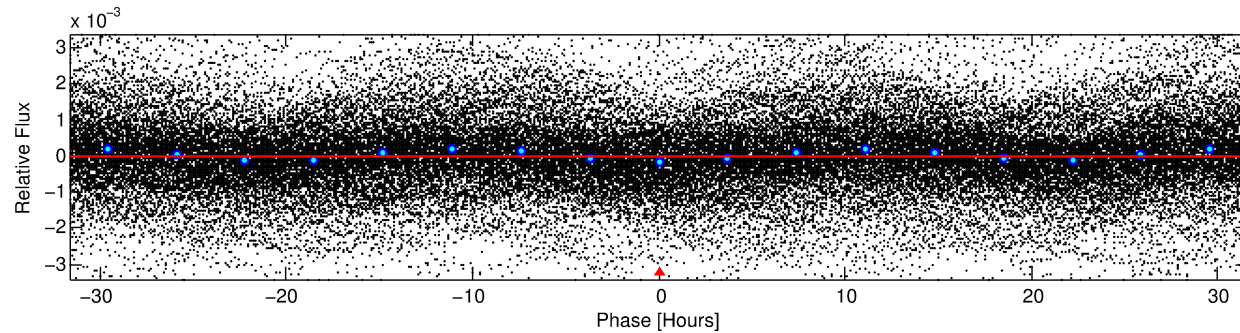
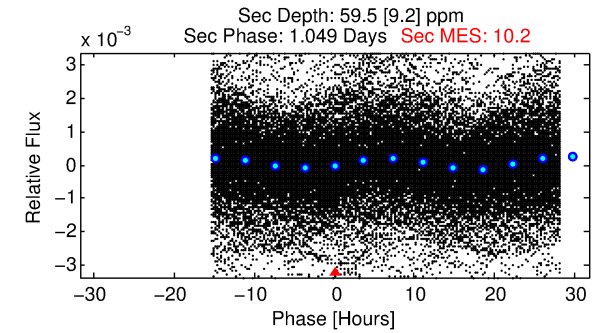
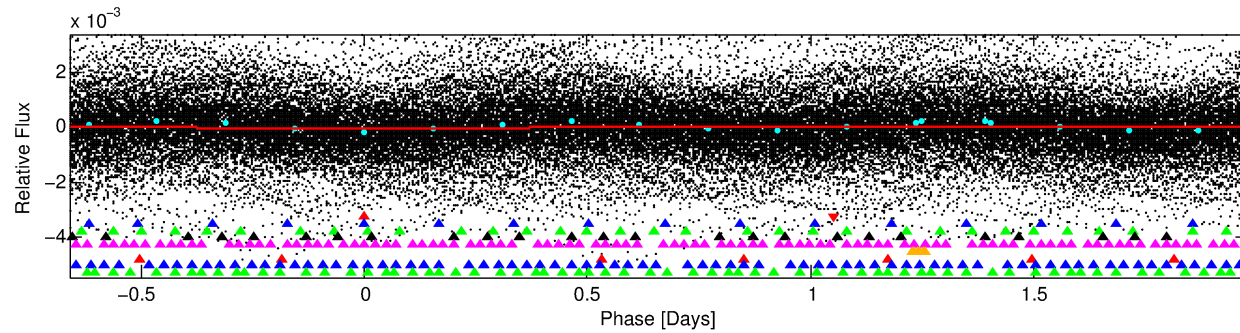
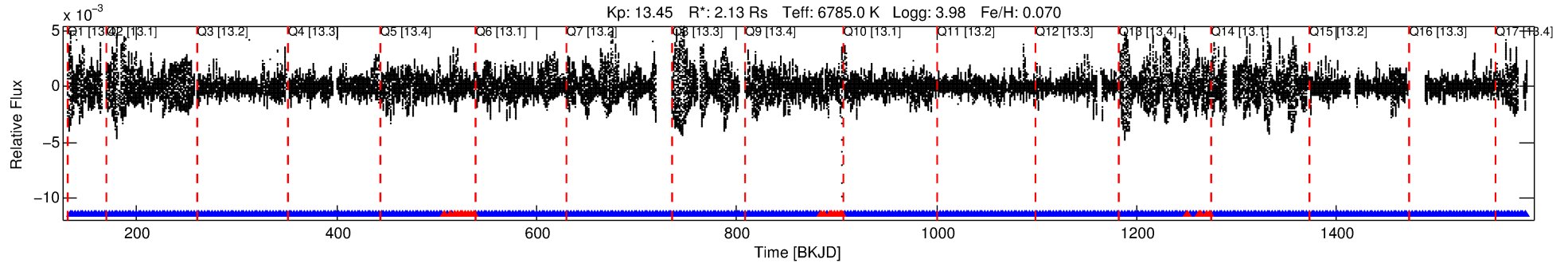
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-01

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 1 of 9 Period: 2.636 d



DV Fit Results:

Period = 2.63644 [0.00005] d
Epoch = 133.6189 [0.0096] BKJD
Rp/R* = 0.0045 [0.0022]
a/R* = 1.15 [0.72]
b = 0.70 [1.94]
Seff = 4551.06 [2220.70]
Teq = 2094 [255] K
Rp = 1.04 [0.63] Re
a = 0.0434 [0.0132] AU
Ag = 57.40 [63.70] [0.89σ]
Teffp = 8913 [2282] K [2.97σ]

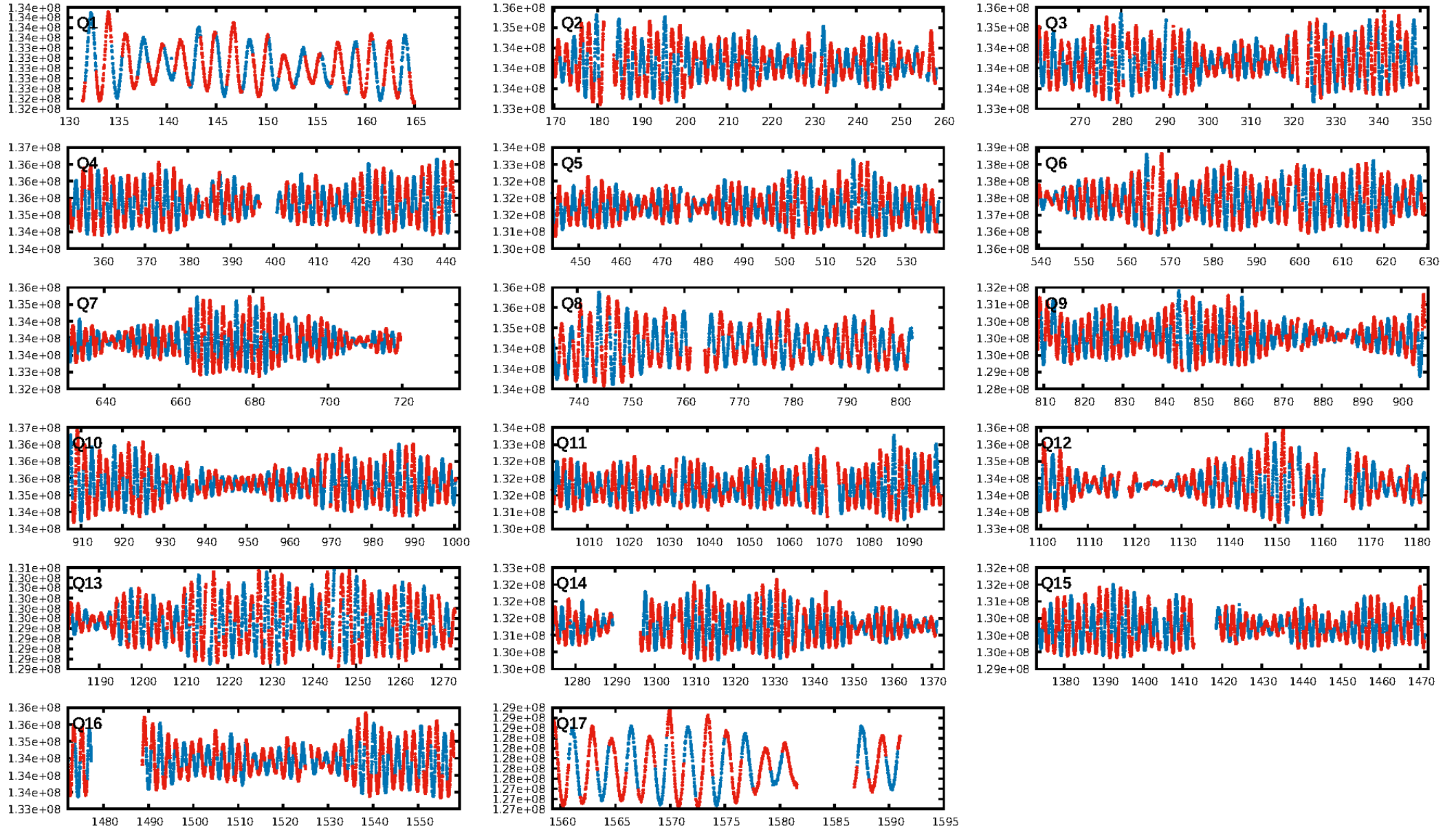
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [15.77σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.95 [480/503]
GhostDiagnostic-chr: 0.3818
Centroid-sig: 20.3%
Centroid-so: 1.090 arcsec [1.25σ]
OotOffset-rm: 0.044 arcsec [0.26σ]
KicOffset-rm: 0.061 arcsec [0.31σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.65 [11/17]
DiffImageOverlap-fno: 1.00 [17/17]

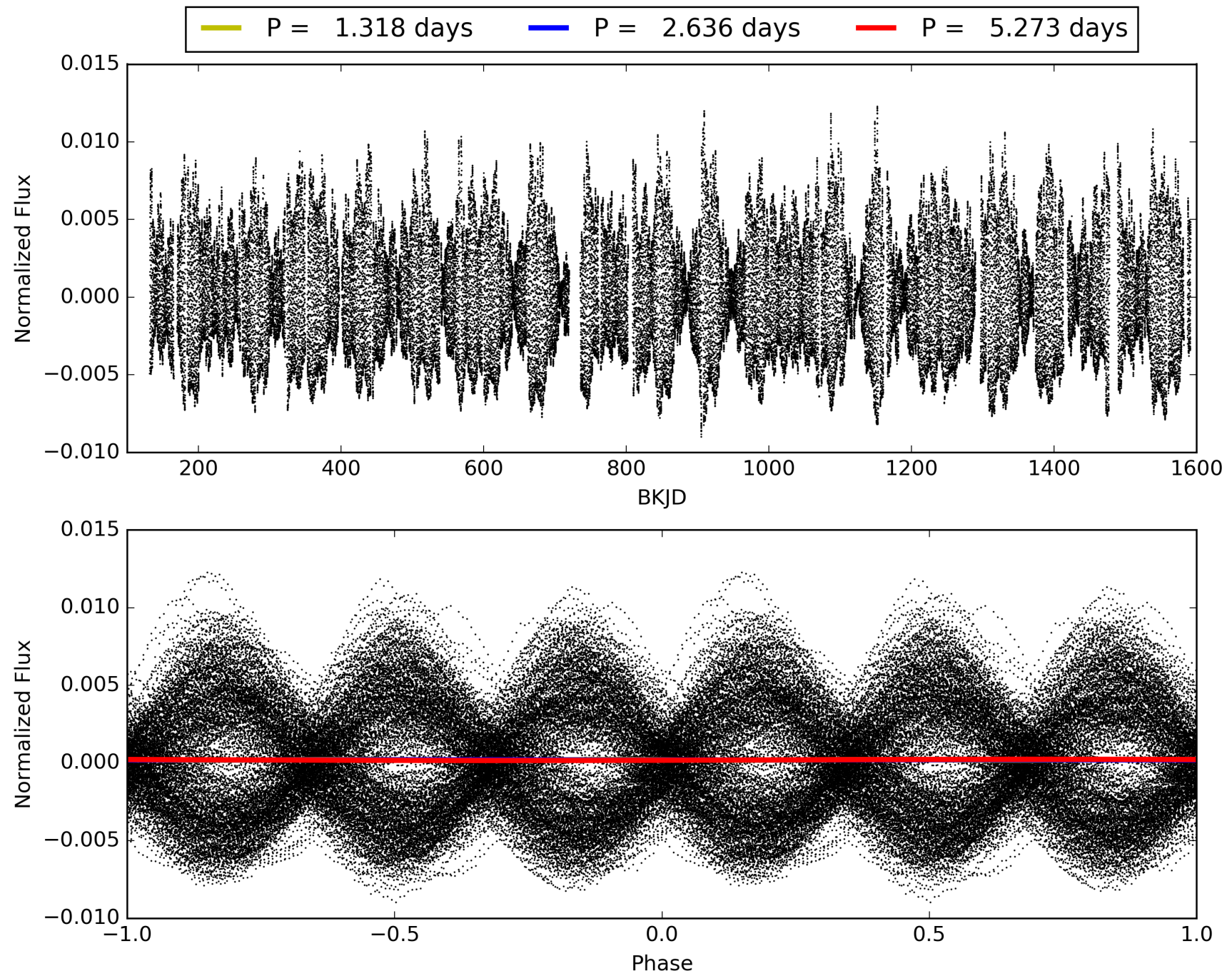
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:32:45 Z

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

TCE 008750803-01, PDC Light Curves

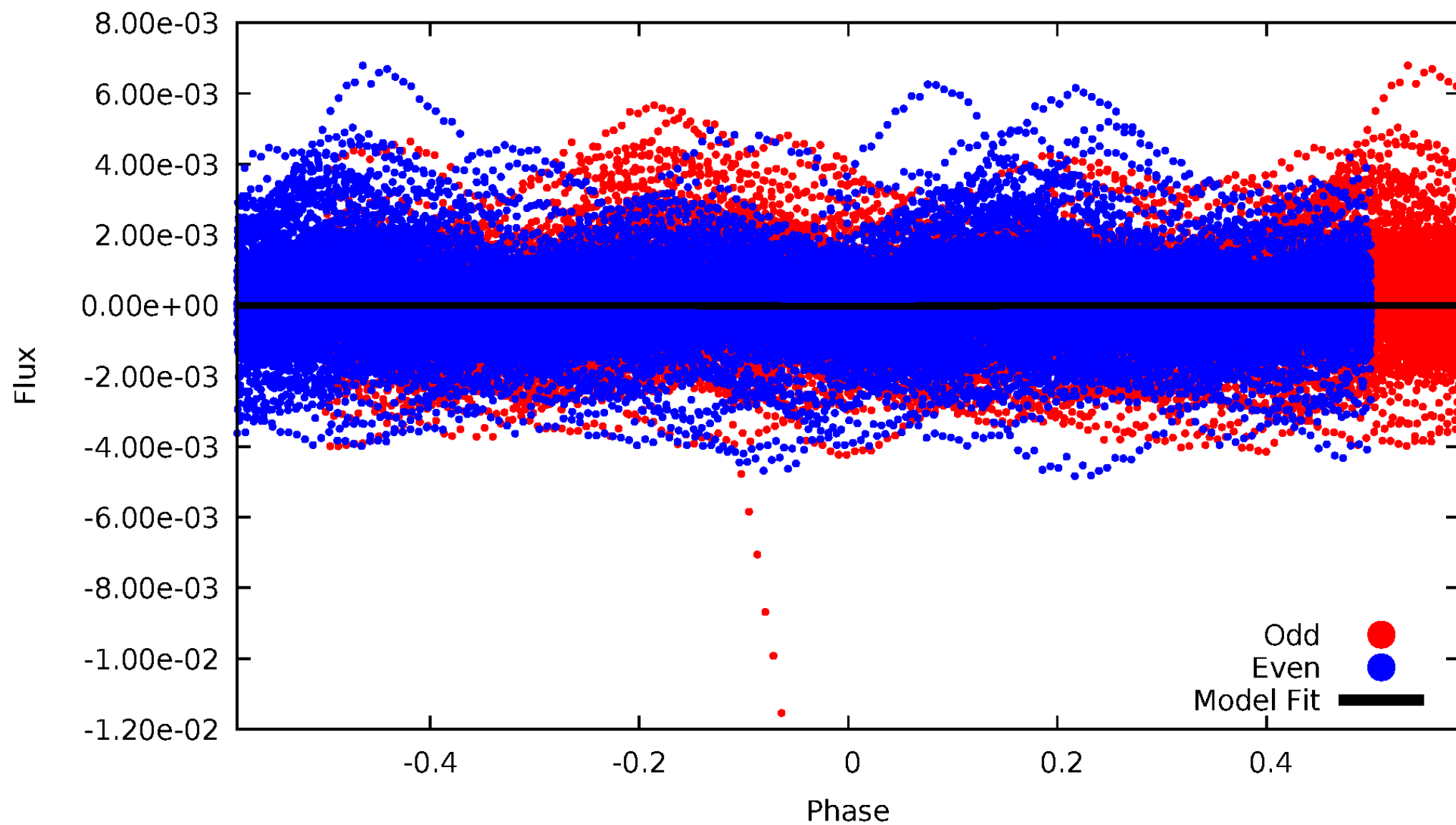


TCE 008750803-01



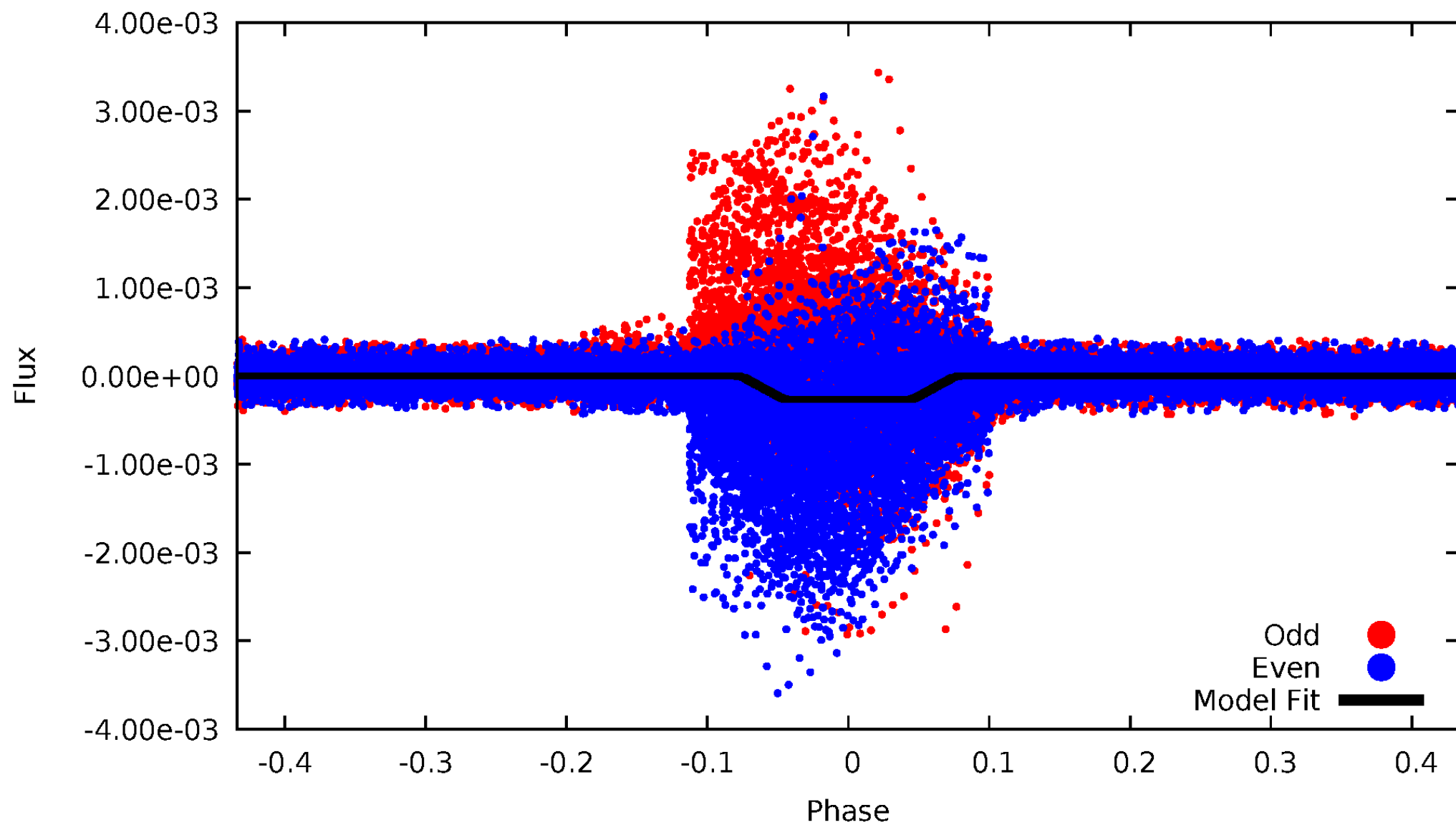
DV Odd/Even

TCE 008750803-01



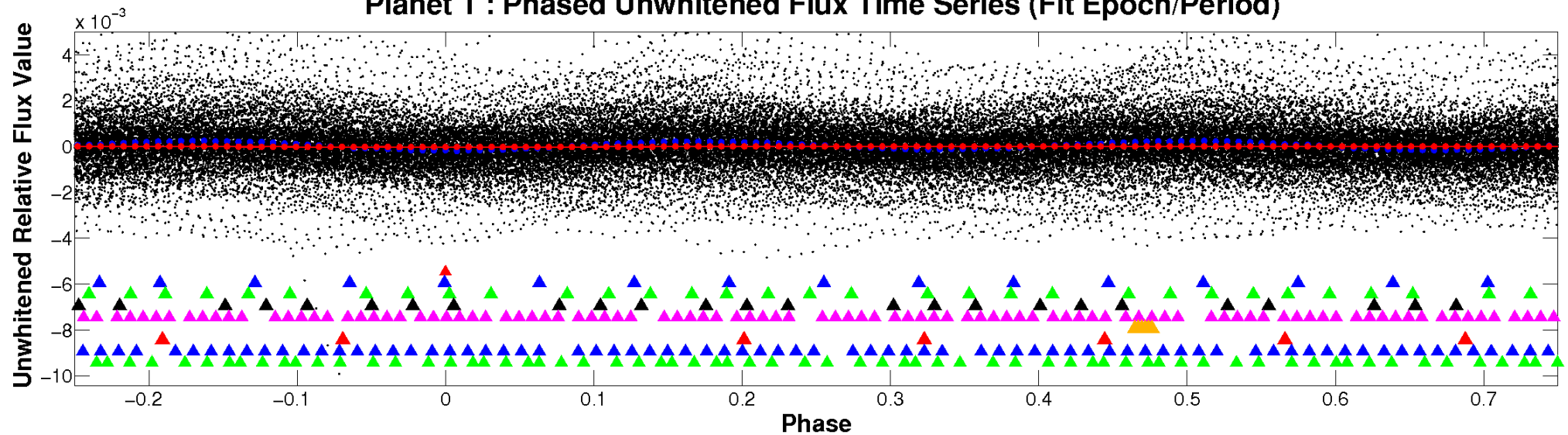
ALT Odd/Even

TCE 008750803-01

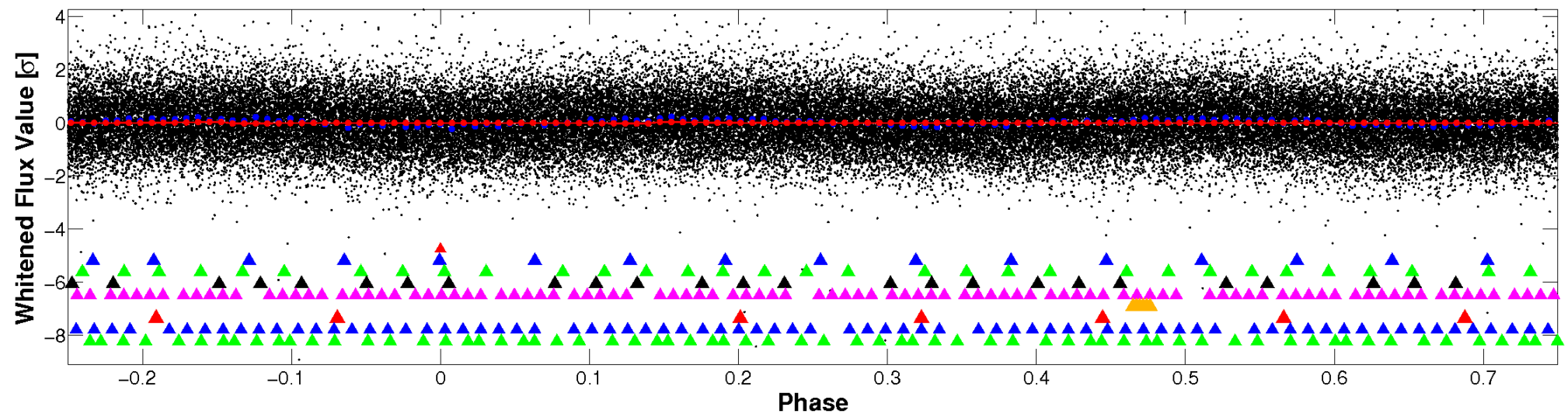


Non-Whitened Vs. Whitened Light Curve

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

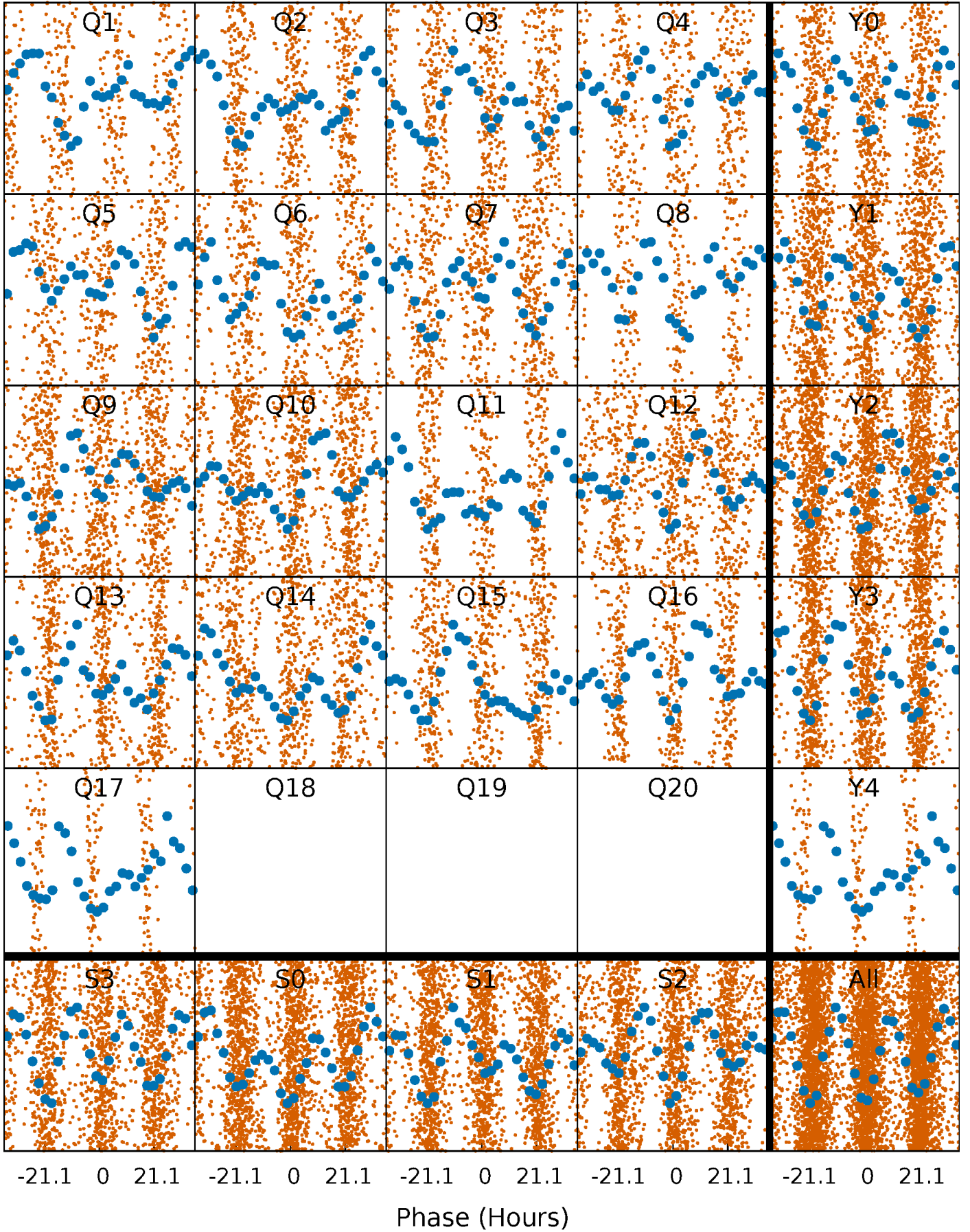


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



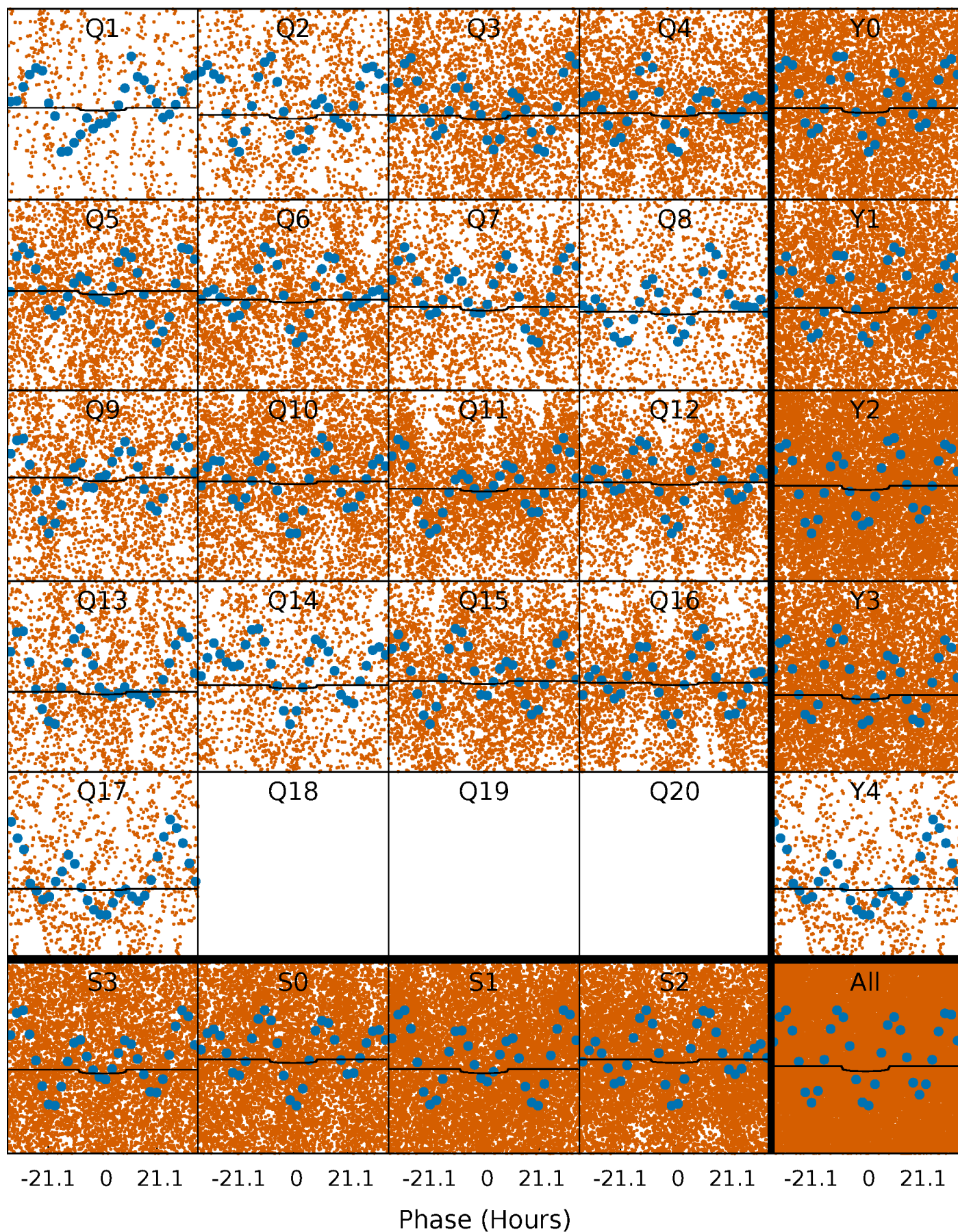
PDC Quarter-Phased Transit Curves

TCE 008750803-01 P= 2.636437 Days $T_0=133.618865$ (BKJD)



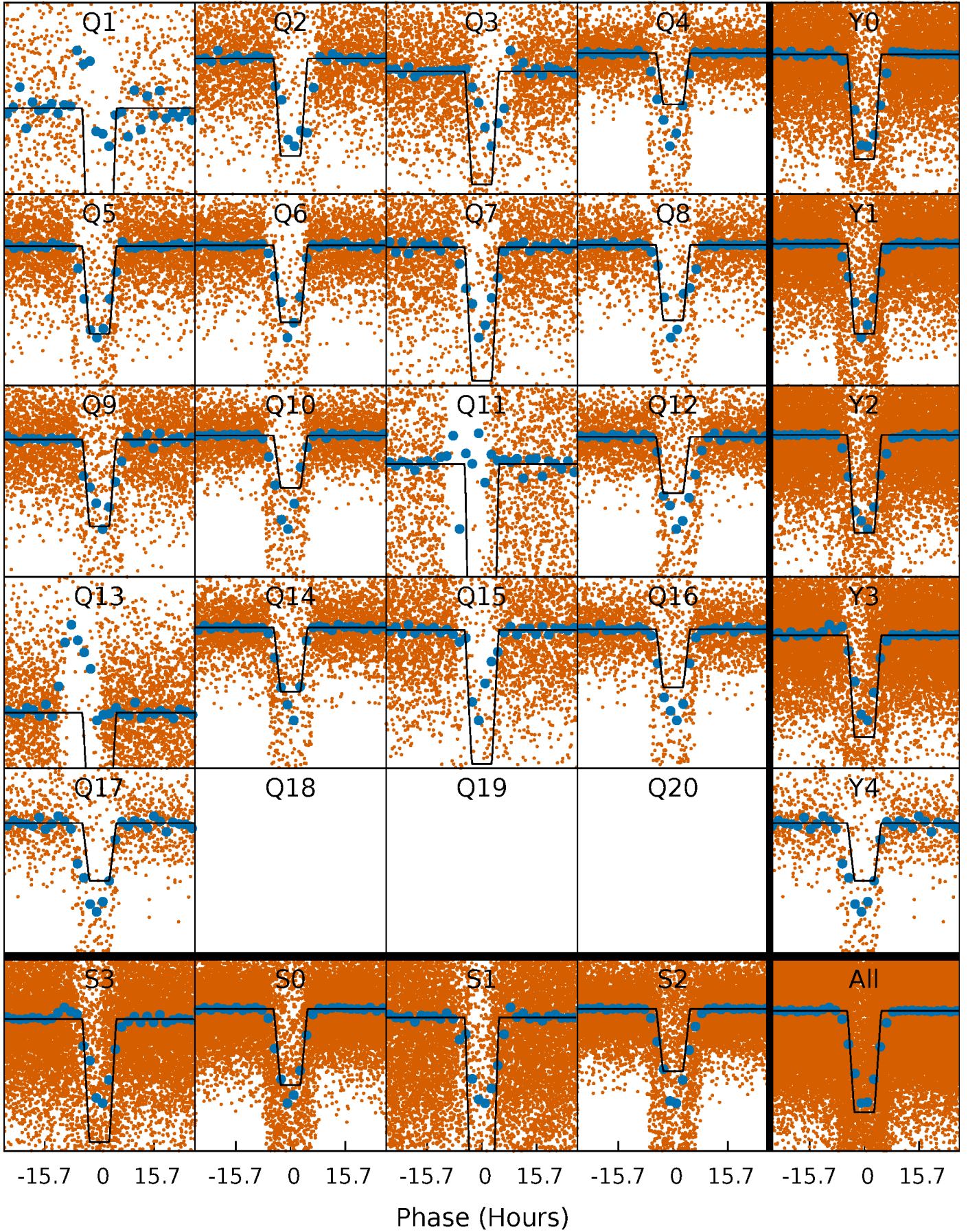
DV Quarter-Phased Transit Curves

TCE 008750803-01 P= 2.636437 Days $T_0=133.618865$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

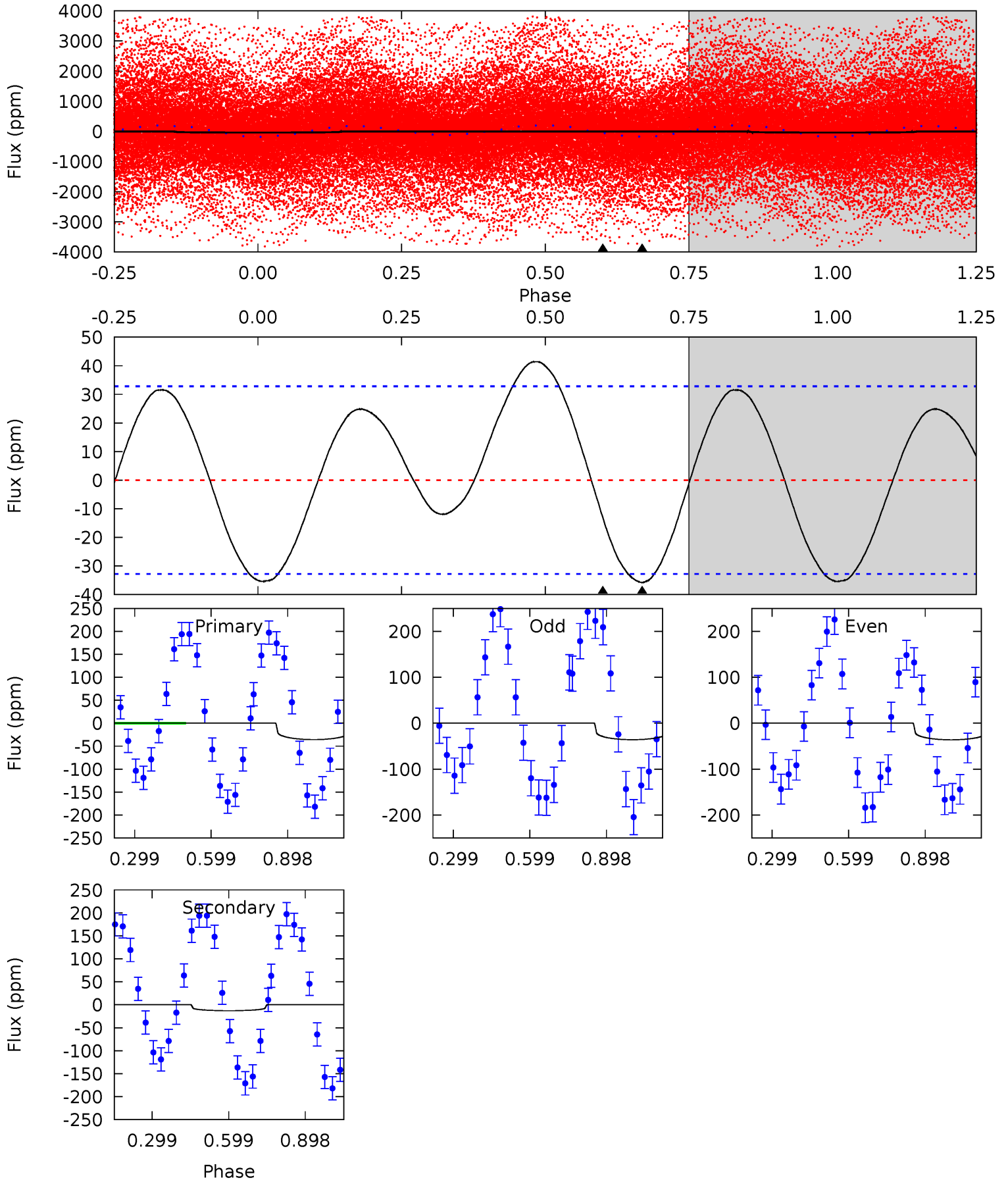
TCE 008750803-01 P= 2.636302 Days $T_0=133.633857$ (BKJD)



DV Model-Shift Uniqueness Test

008750803-01, P = 2.636437 Days, E = 130.982428 Days

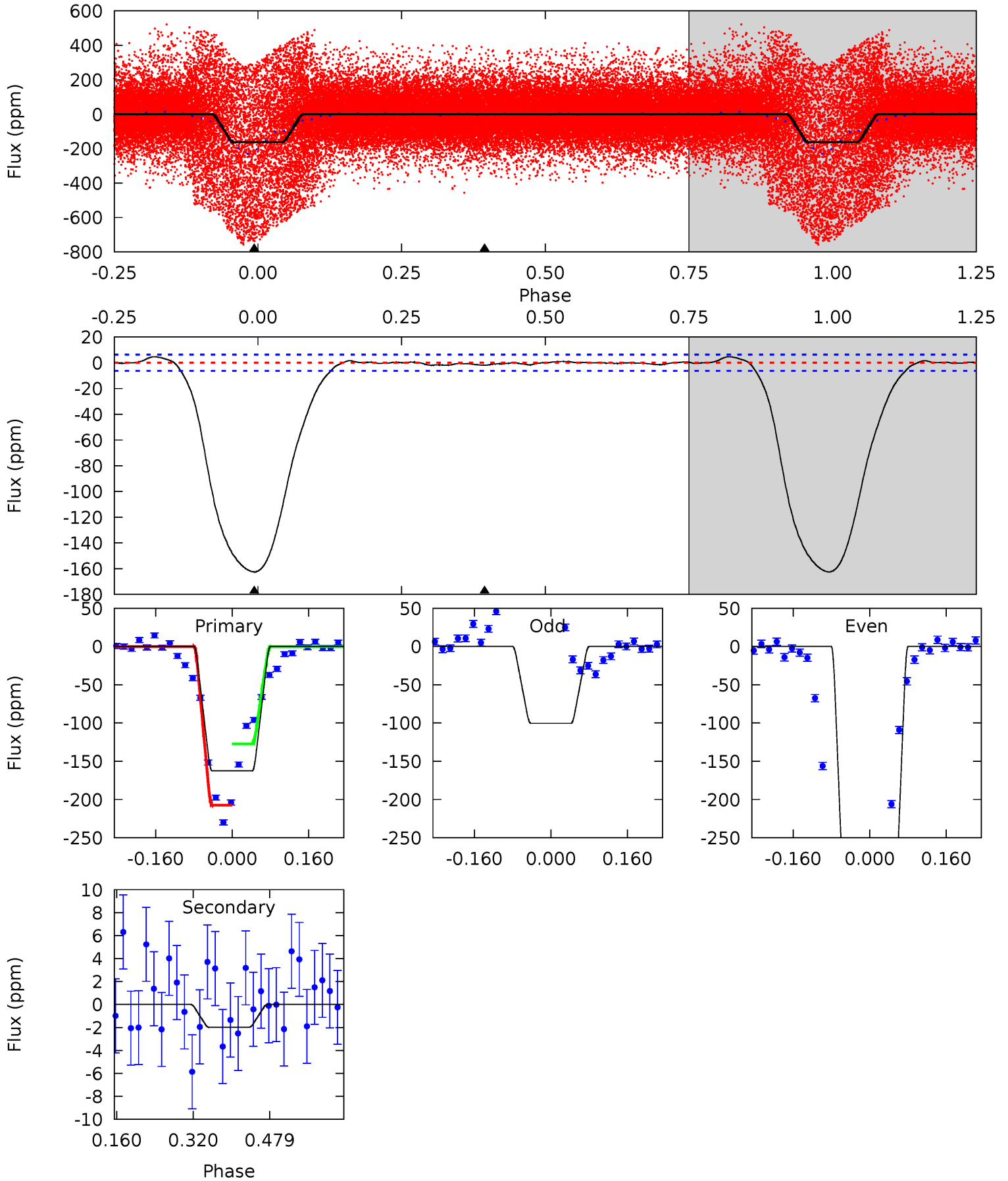
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.72	1.71	0	0	4.33	1.04	2.84	4.72	4.72	1.71	1.71	0.02	1.02	0.54	2.26



Alt Model-Shift Uniqueness Test

008750803-01, P = 2.636302 Days, E = 130.997555 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
116.0	1.41	0	0	4.47	1.41	0.92	116.0	116.0	1.41	1.41	132.6	1.20	0.03	0



Stellar Parameters For KIC 008750803

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-13 ± 8	$0.96^{+0.58}_{-0.43}$	2894^{+227}_{-269}	5881^{+2744}_{-1364}	13^{+35}_{-9}
Alt.	-2 ± 1	$3.75^{+0.88}_{-0.81}$	2907^{+239}_{-262}	-2775^{+4737}_{-289}	$0.143^{+0.165}_{-0.112}$

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

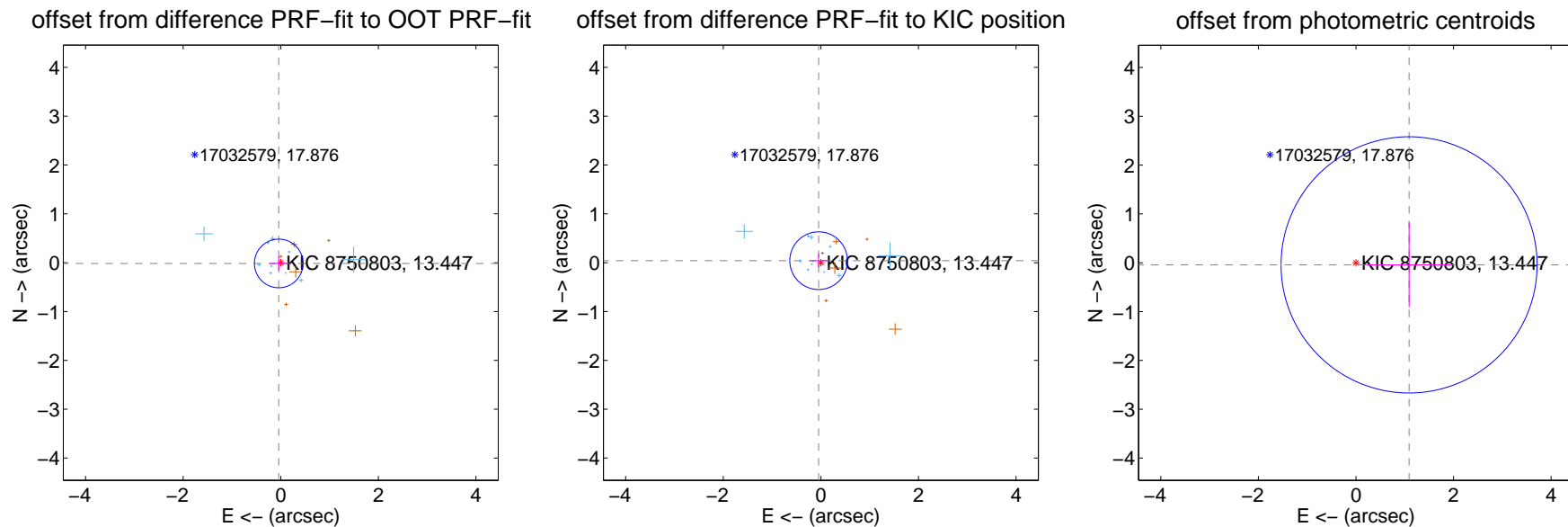
DV Centroid Data

Supplemental centroid analysis for 008750803-01. Kepler magnitude: 13.45. Transit SNR 2.50

There are 11 quarters with good PRF difference image offsets

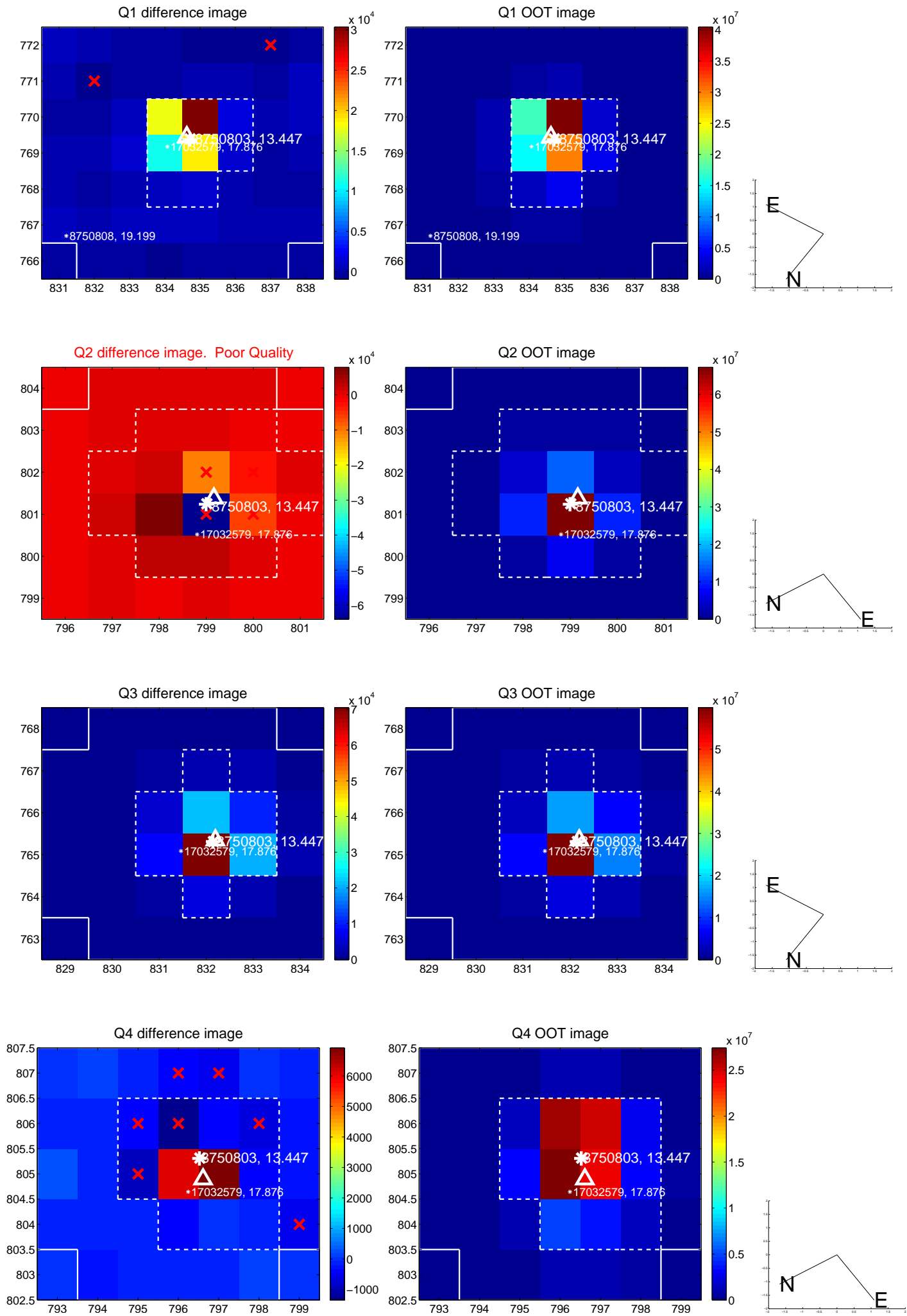
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.044 ± 0.166	0.26	0.041 ± 0.192	-0.015 ± 0.144
PRF-fit source offset from KIC position	0.061 ± 0.197	0.31	0.046 ± 0.186	0.041 ± 0.145
photometric centroid source offset	1.09 ± 0.87	1.25	-1.09 ± 0.87	-0.04 ± 0.87

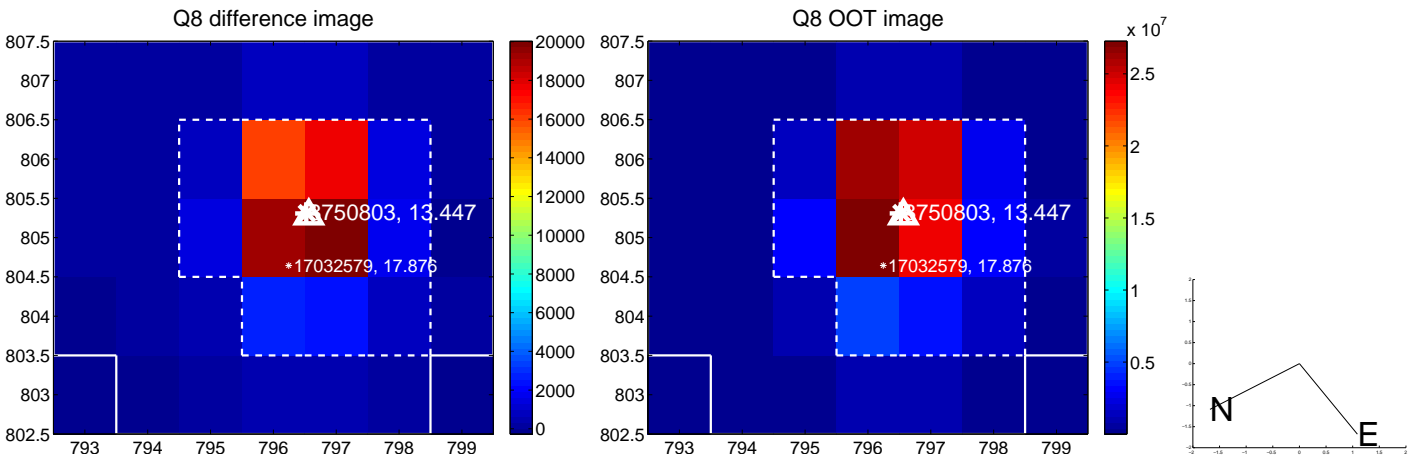
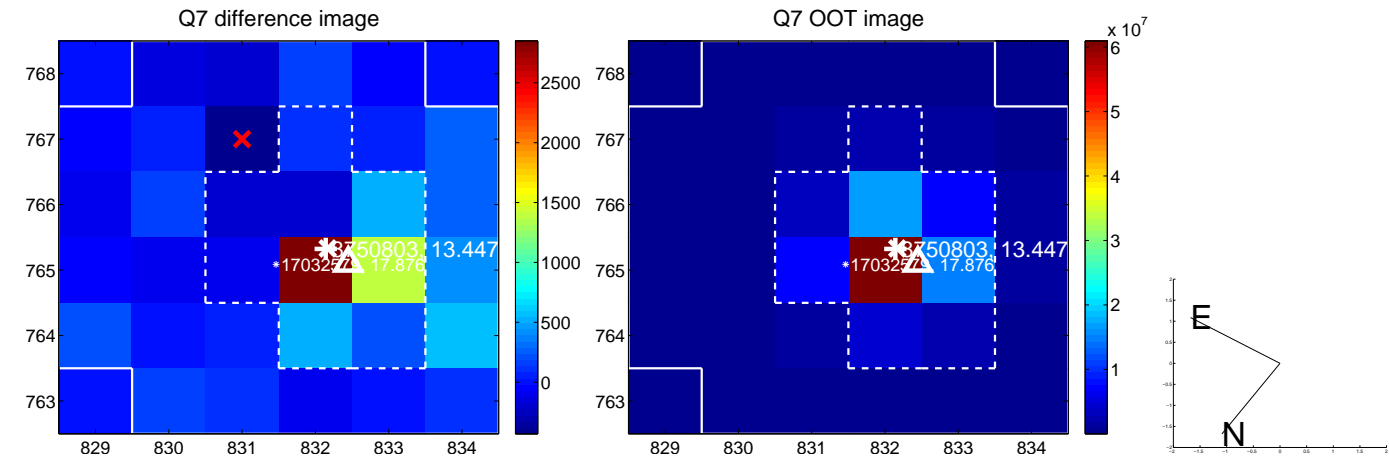
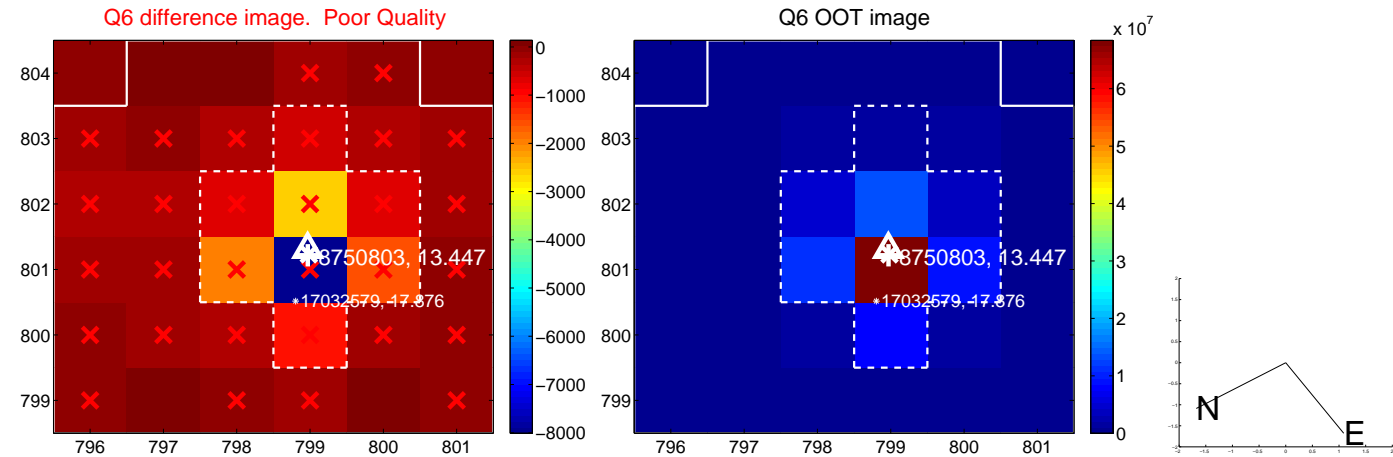
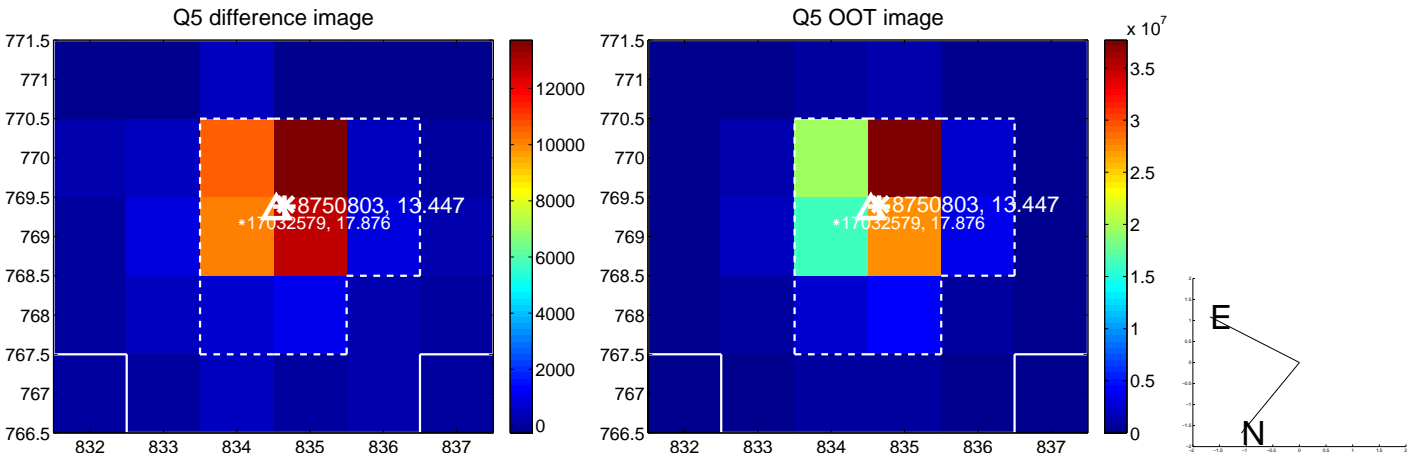


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

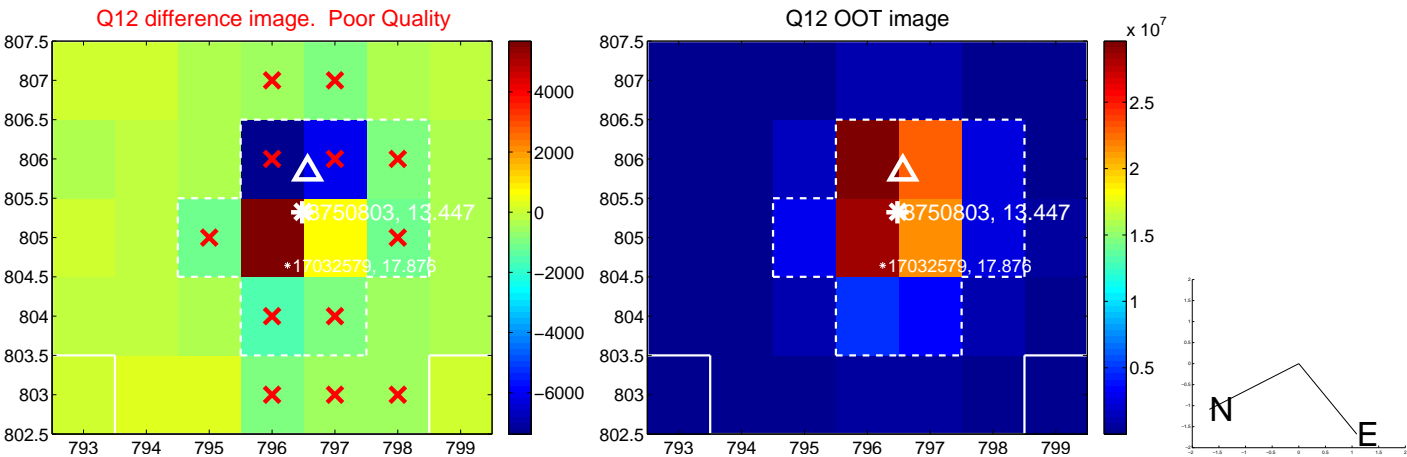
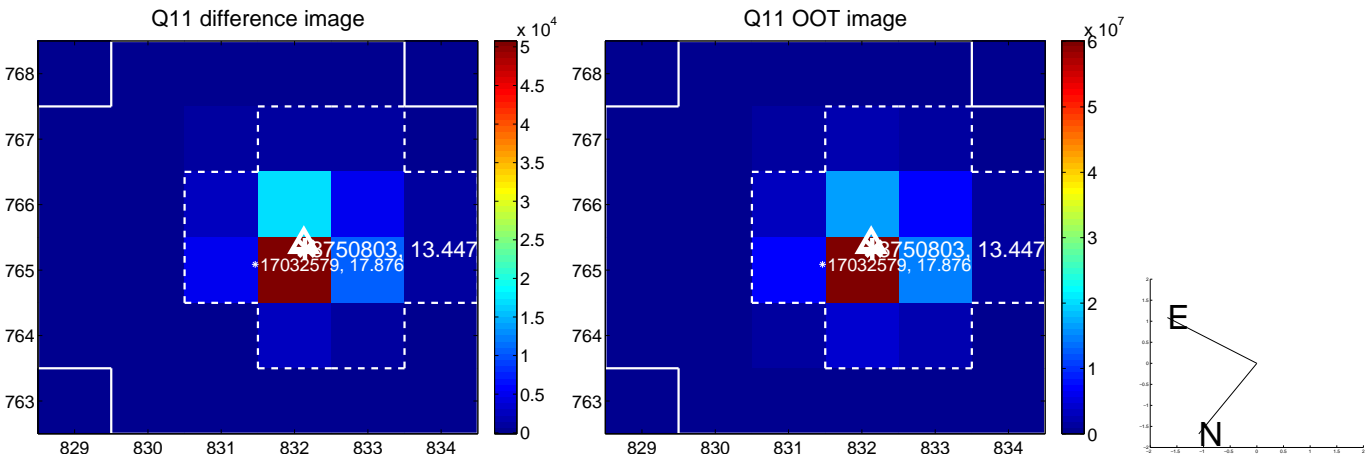
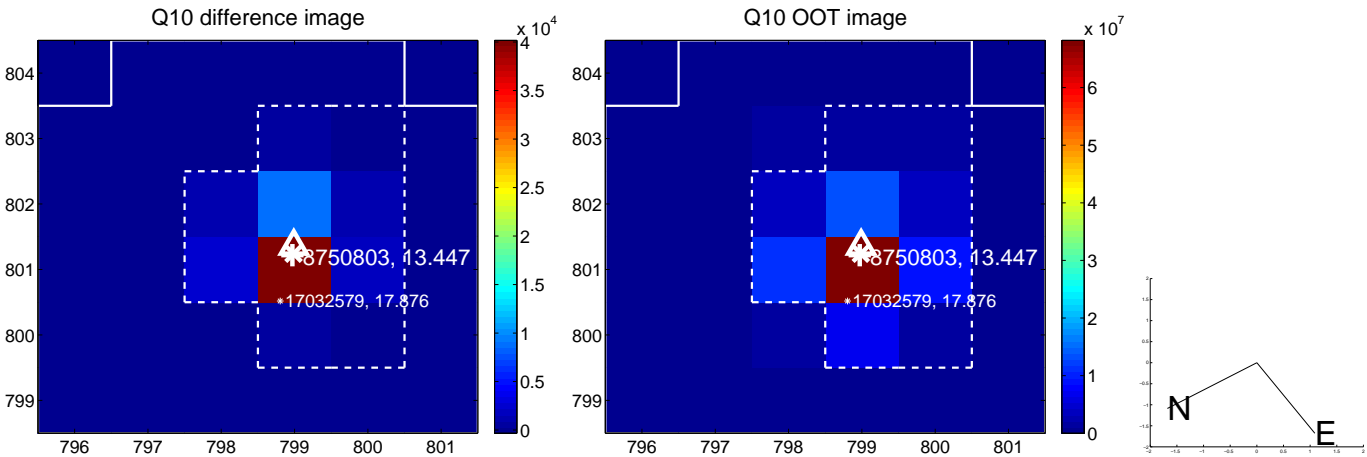
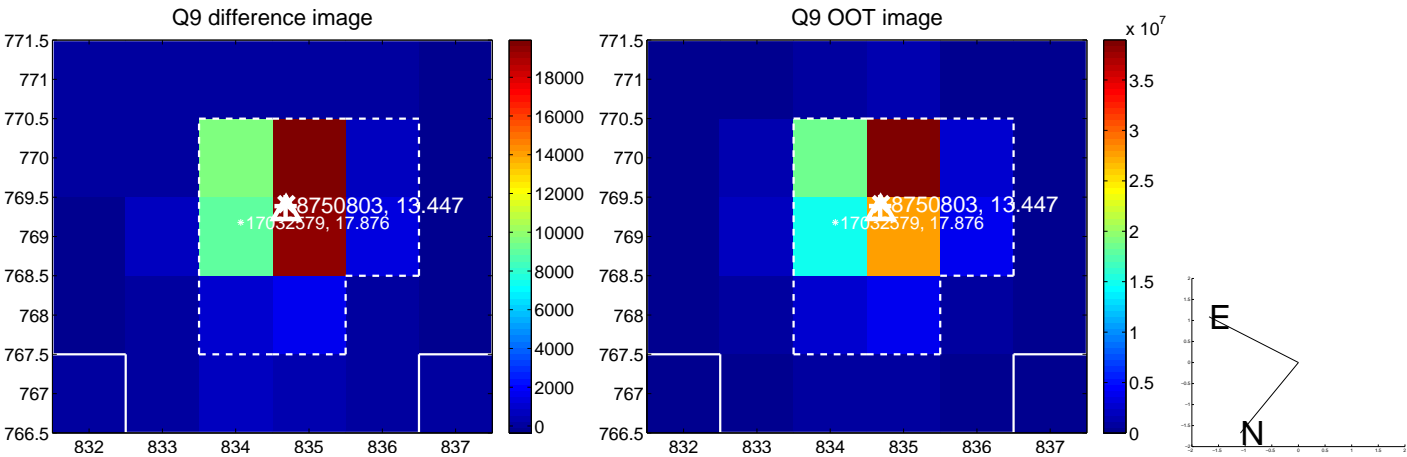
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



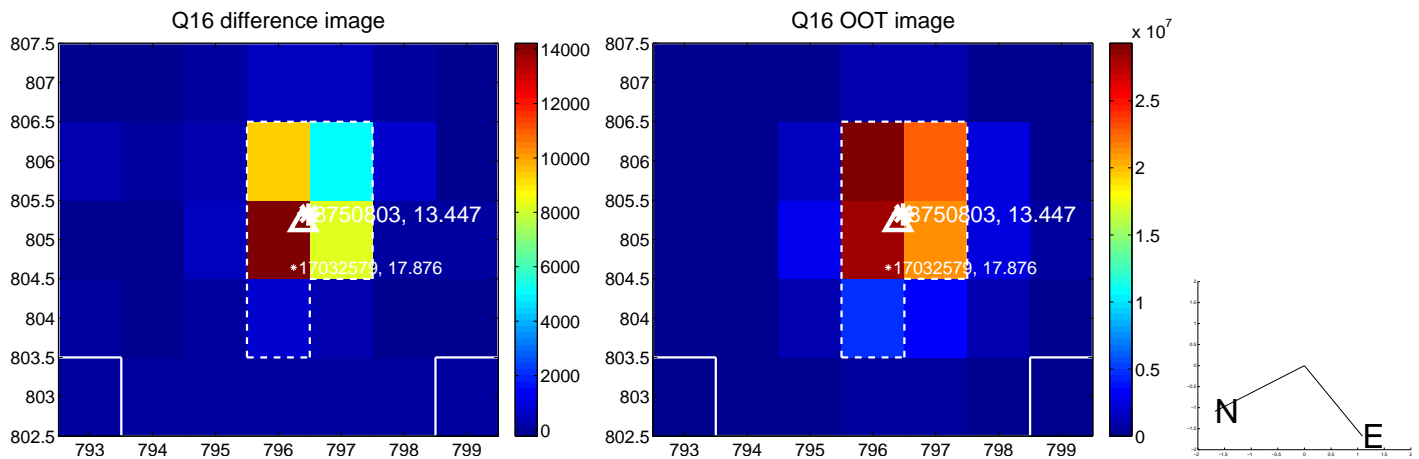
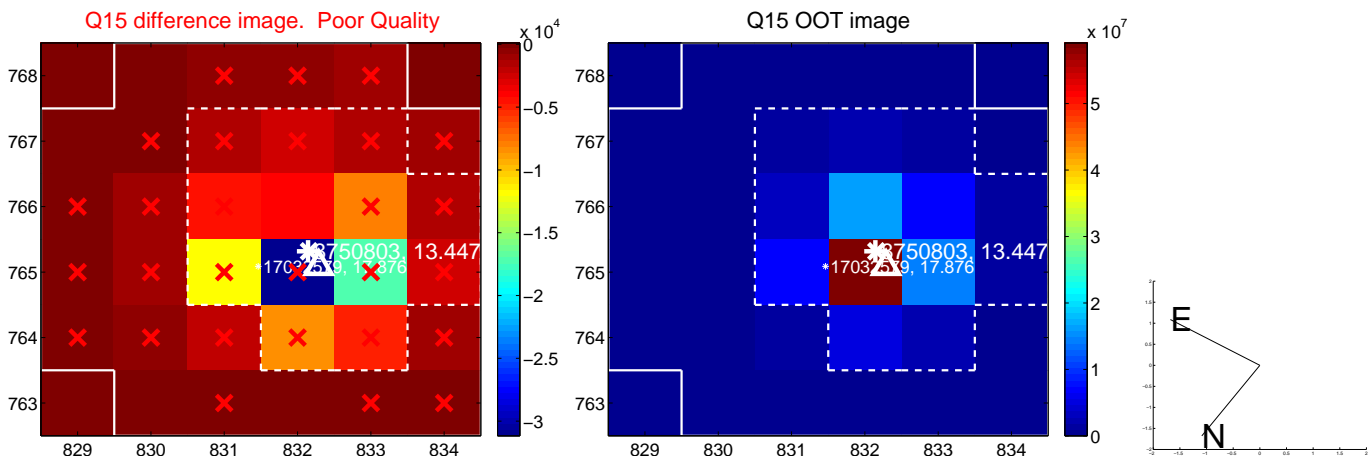
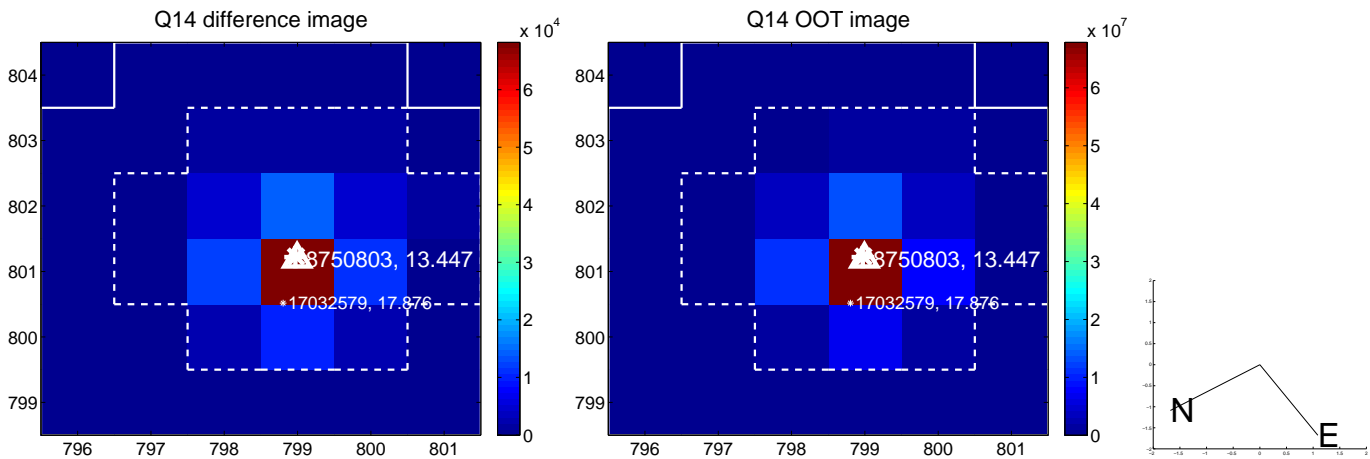
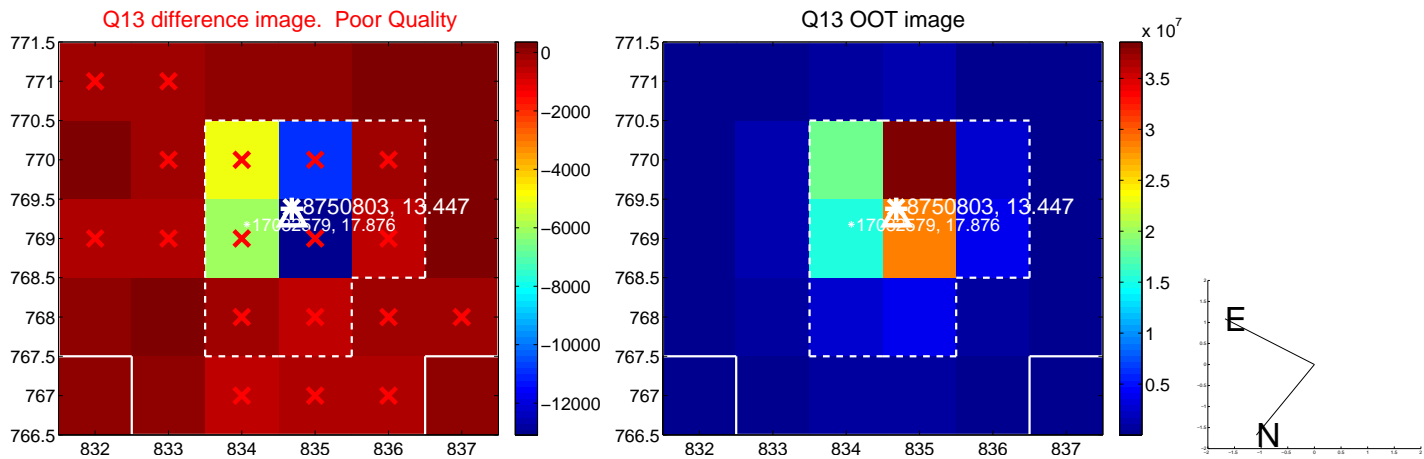
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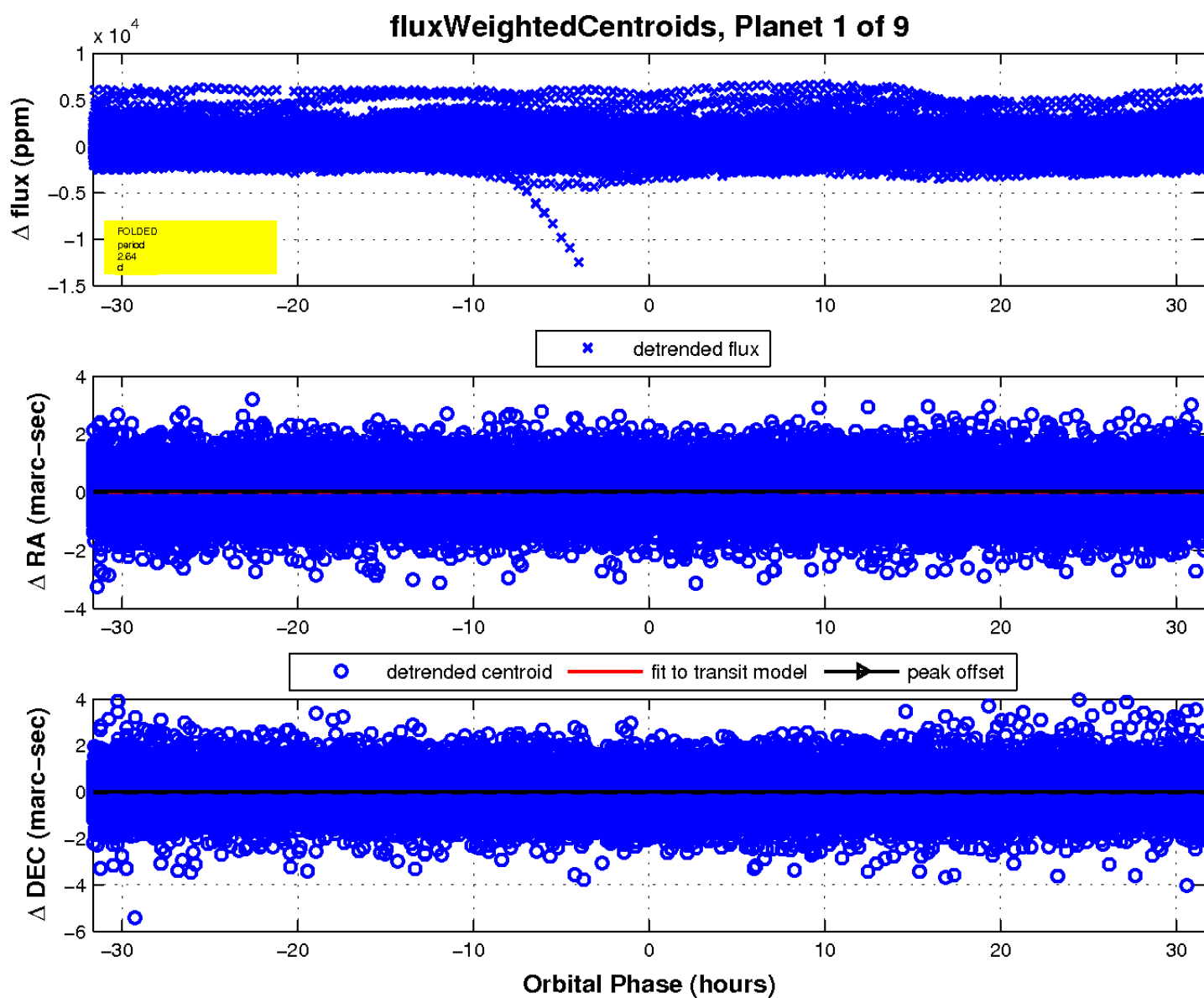
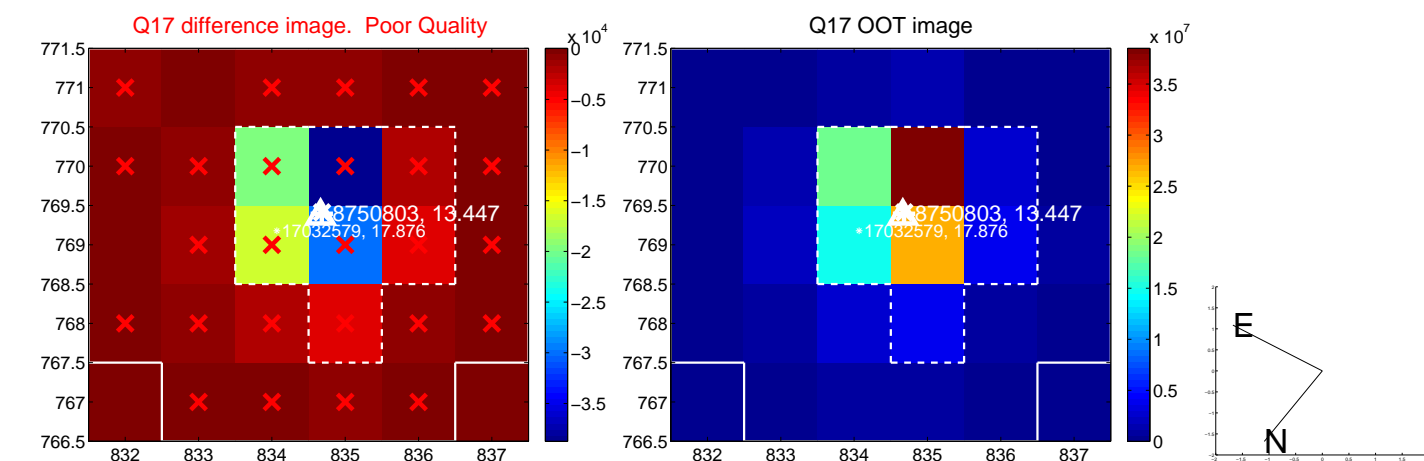
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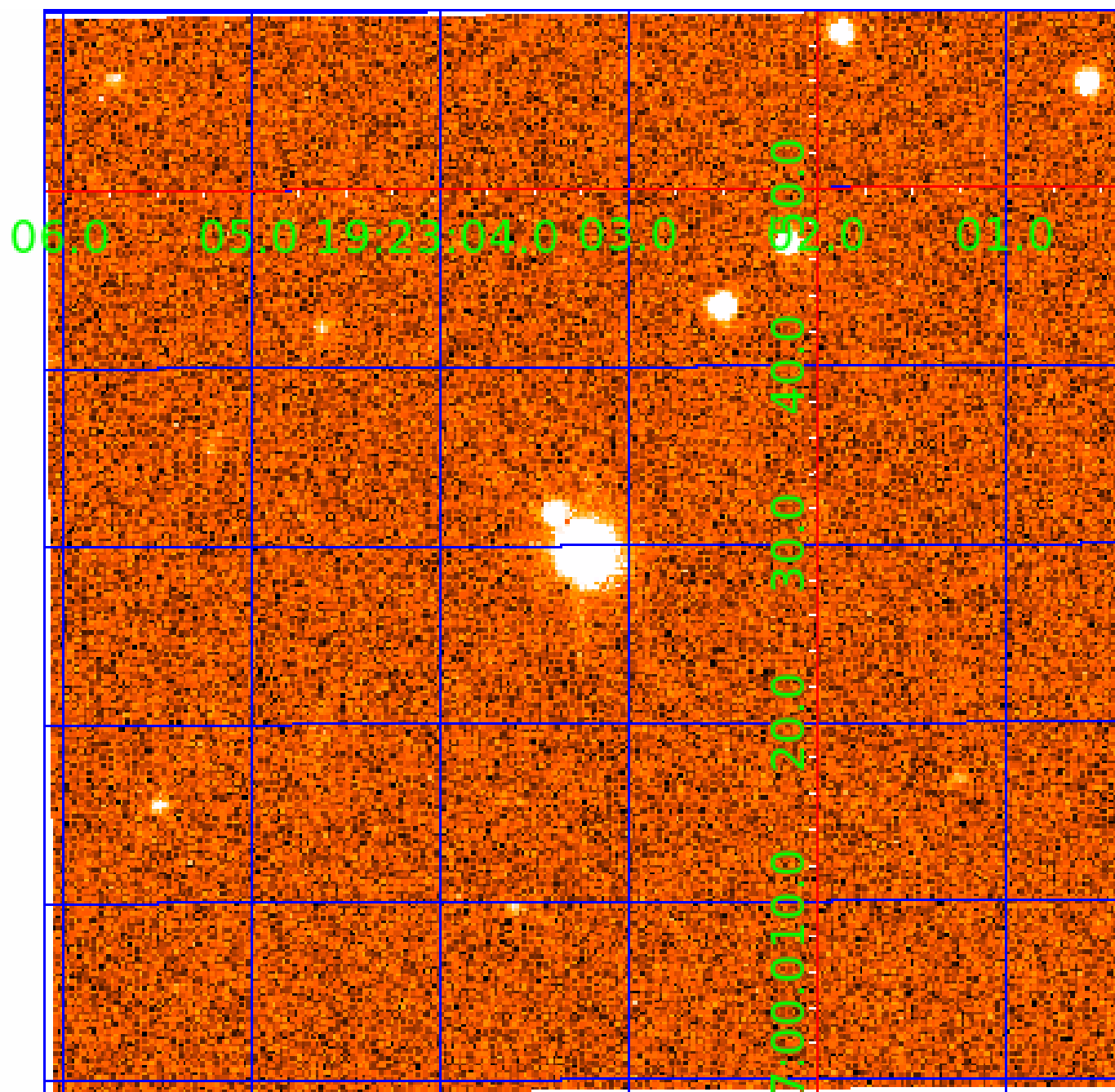


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UKIRT Image

Declination



KIC 008750803

Q1-17 DR25 TCE Parameters

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008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
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Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

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

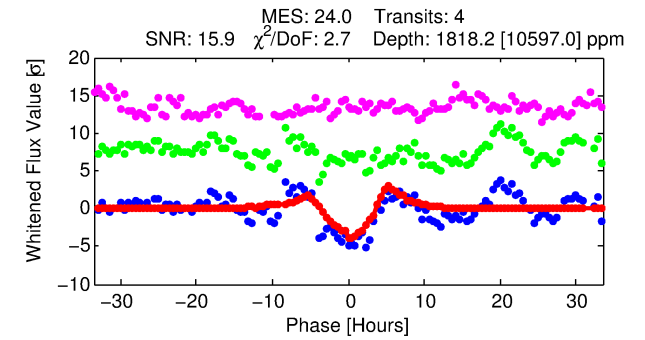
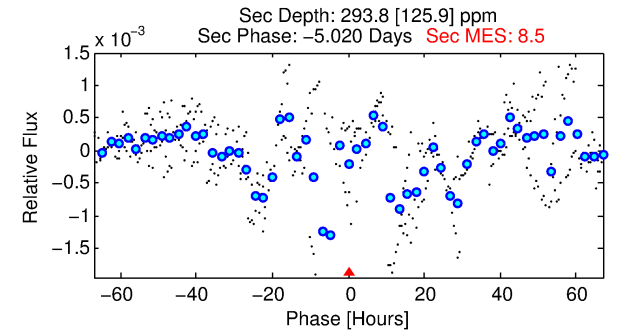
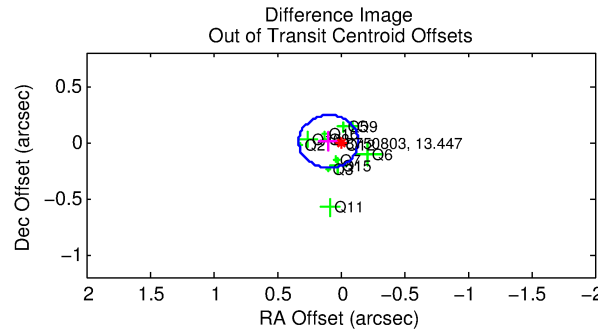
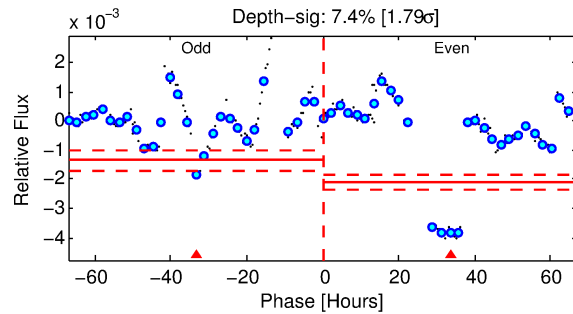
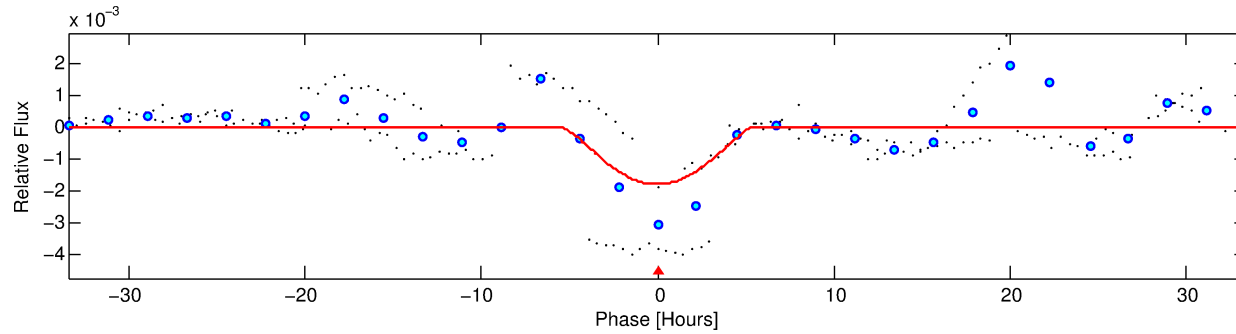
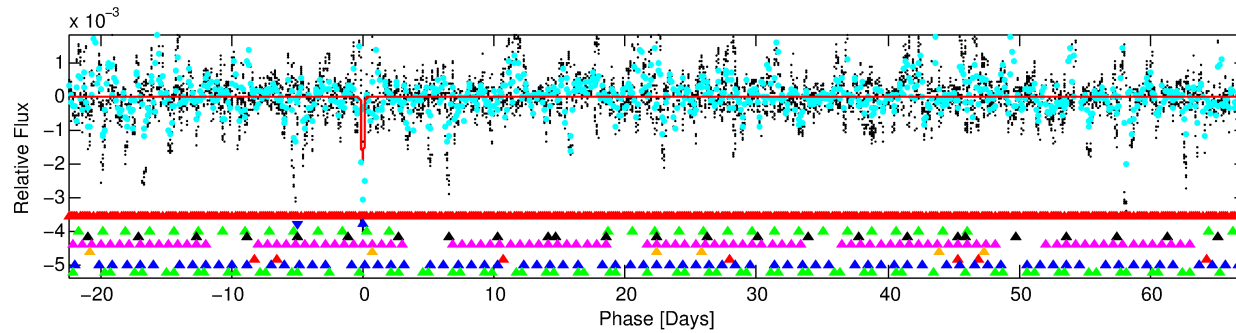
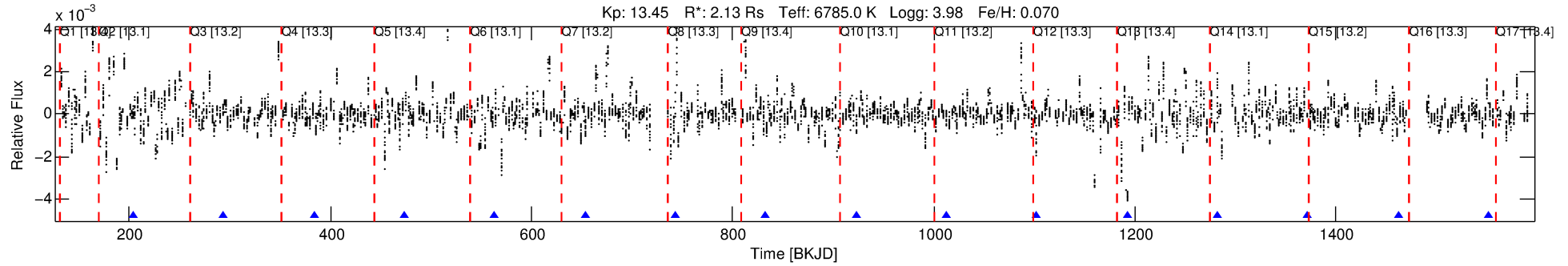
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-02

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 2 of 9 Period: 89.807 d



DV Fit Results:

Period = 89.80744 [0.01617] d
Epoch = 204.2953 [0.1738] BKJD
Rp/R* = 0.0722 [0.1684]
a/R* = 23.82 [13.55]
b = 1.00 [0.04]
Seff = 41.21 [20.11]
Teff = 646 [79] K
Rp = 16.74 [39.49] Re
a = 0.4563 [0.1389] AU
Ag = 120.10 [565.43] [0.21 σ]
Teffp = 3307 [3876] K [0.69 σ]

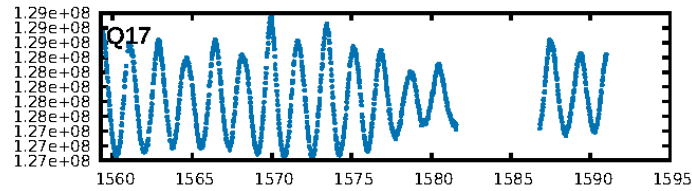
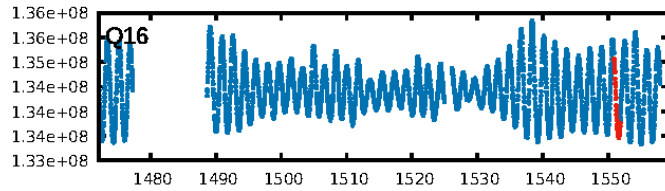
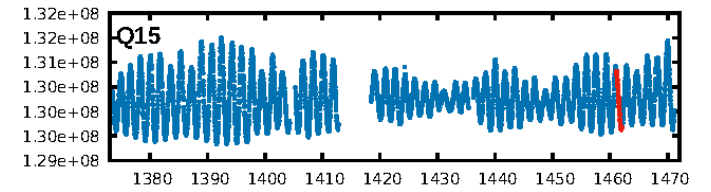
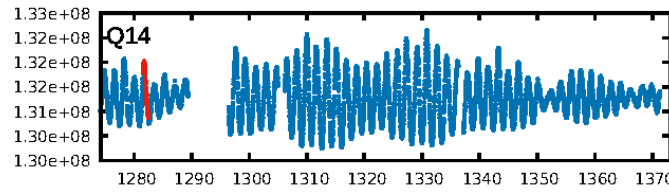
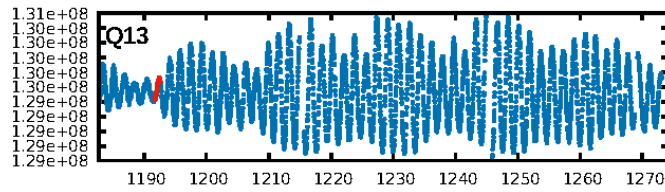
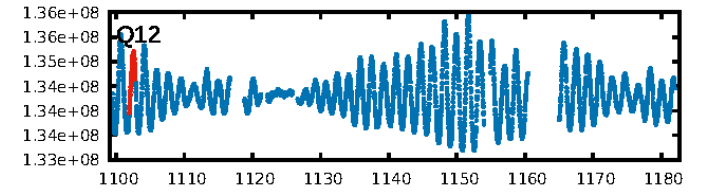
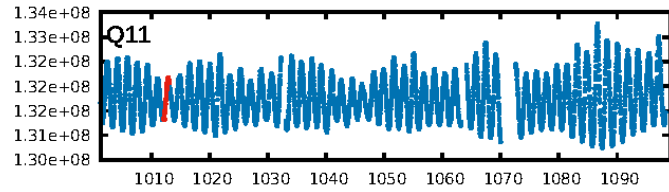
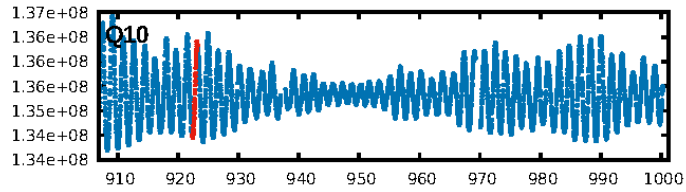
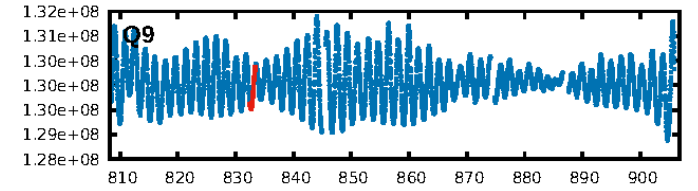
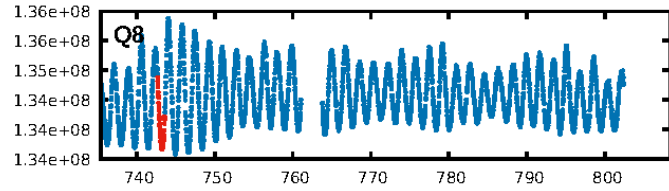
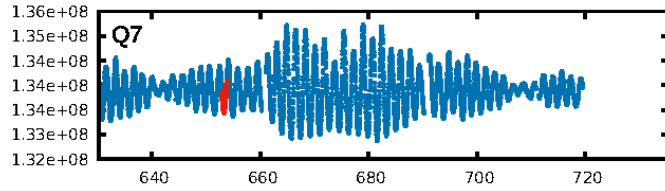
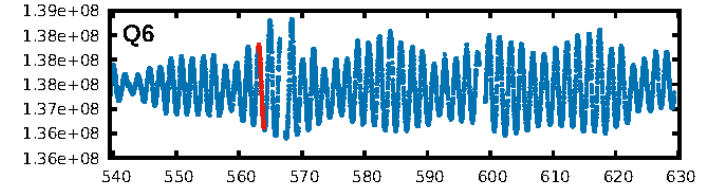
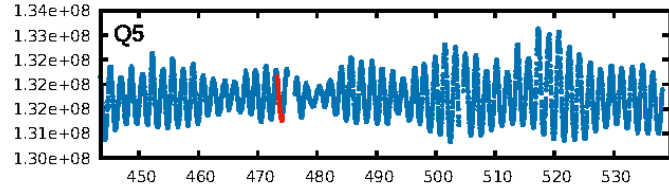
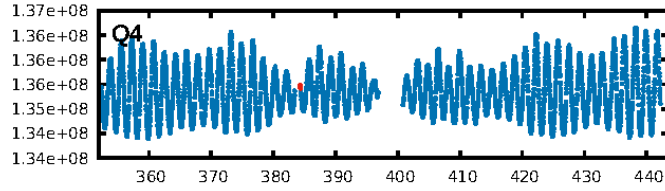
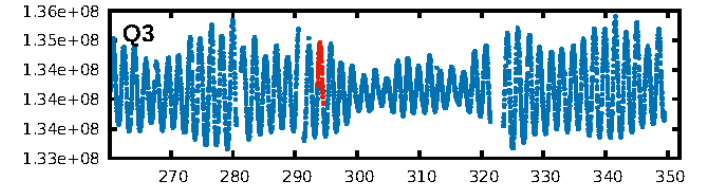
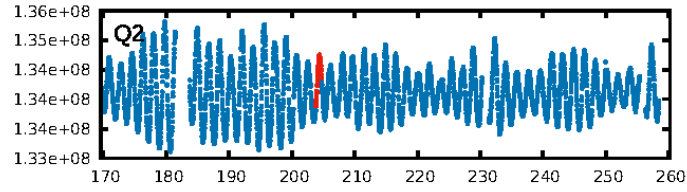
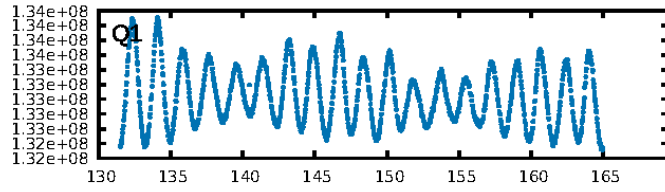
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [46.79 σ]
LongPeriod-sig: 100.0% [63.12 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 95.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.4983
Centroid-sig: 73.9%
Centroid-so: 0.080 arcsec [0.86 σ]
OotOffset-rm: 0.095 arcsec [1.22 σ]
OotOffset-st: 3/4/3/2 [12]
KicOffset-rm: 0.121 arcsec [1.53 σ]
KicOffset-st: 3/4/3/2 [12]
DiffImageQuality-fgm: 0.58 [7/12]
DiffImageOverlap-fno: 0.00 [0/12]

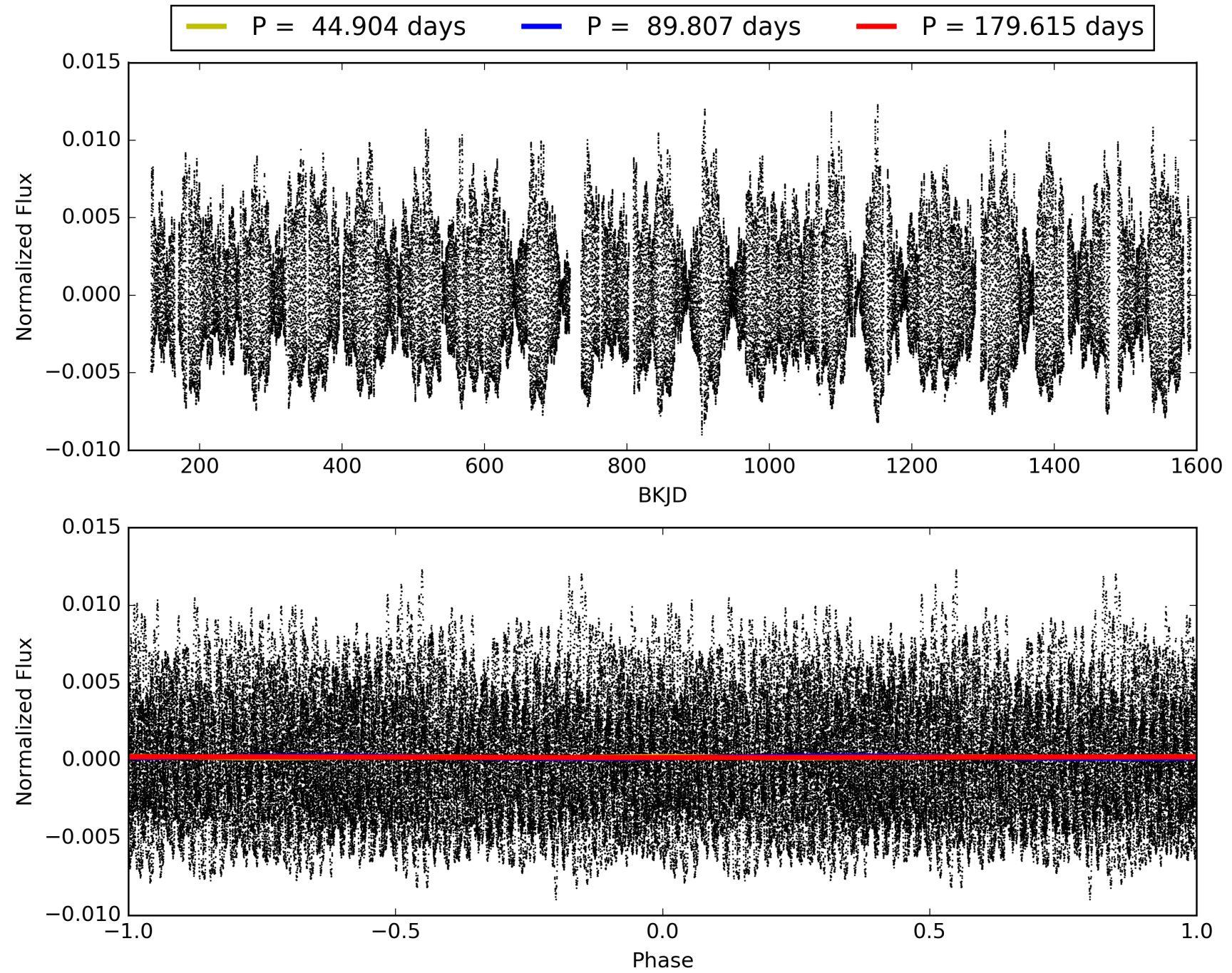
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:32:56 Z

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

TCE 008750803-02, PDC Light Curves

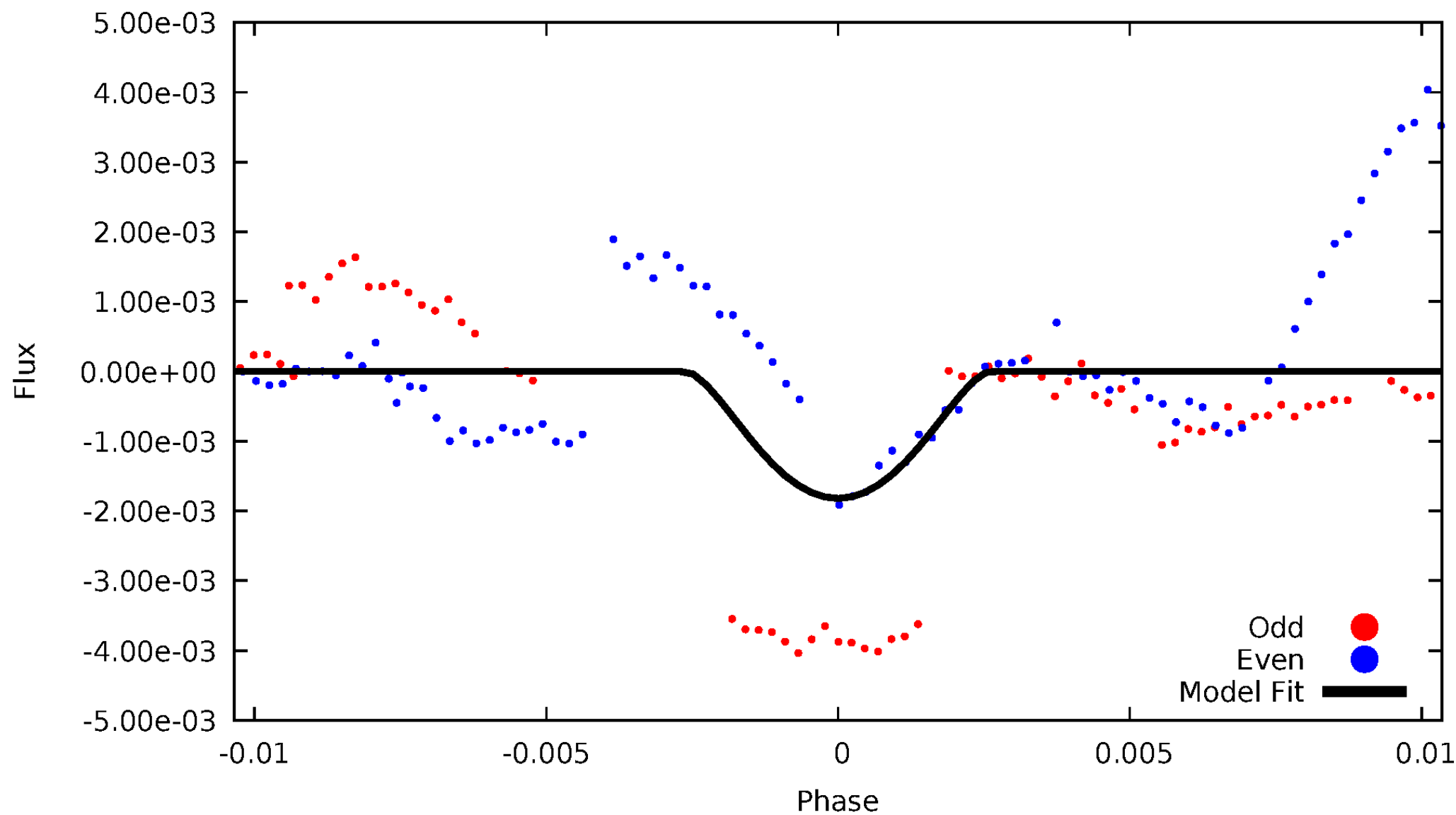


TCE 008750803-02



DV Odd/Even

TCE 008750803-02

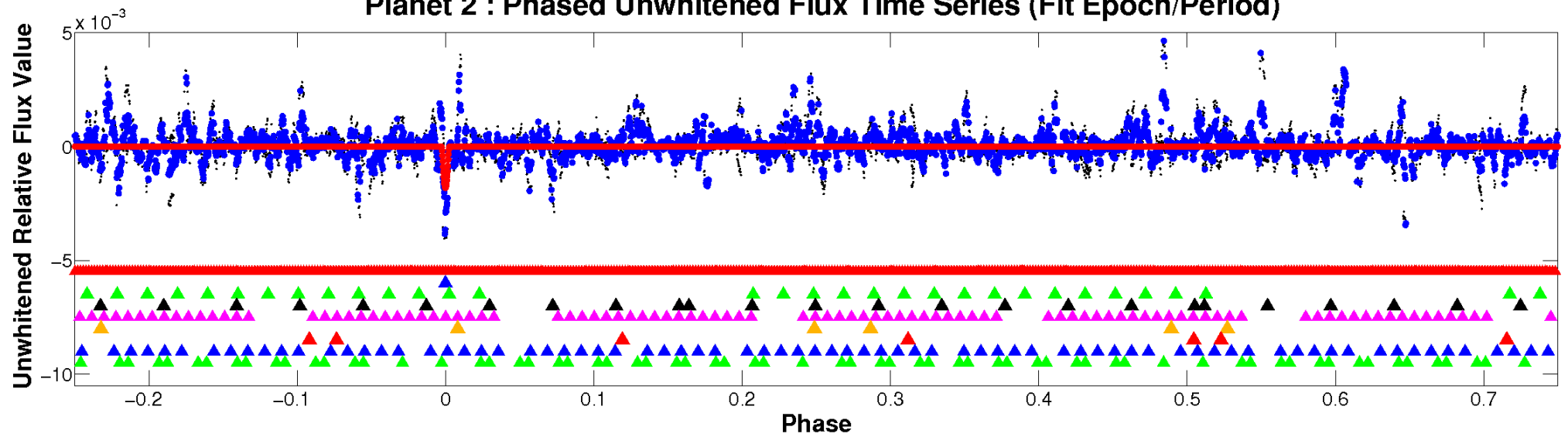


ALT Odd/Even

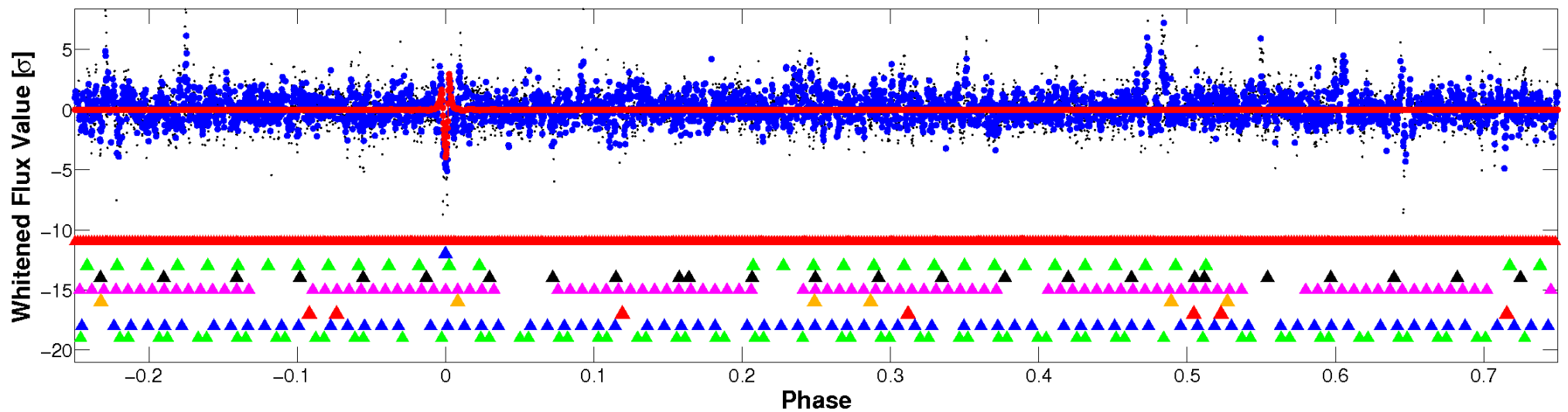
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

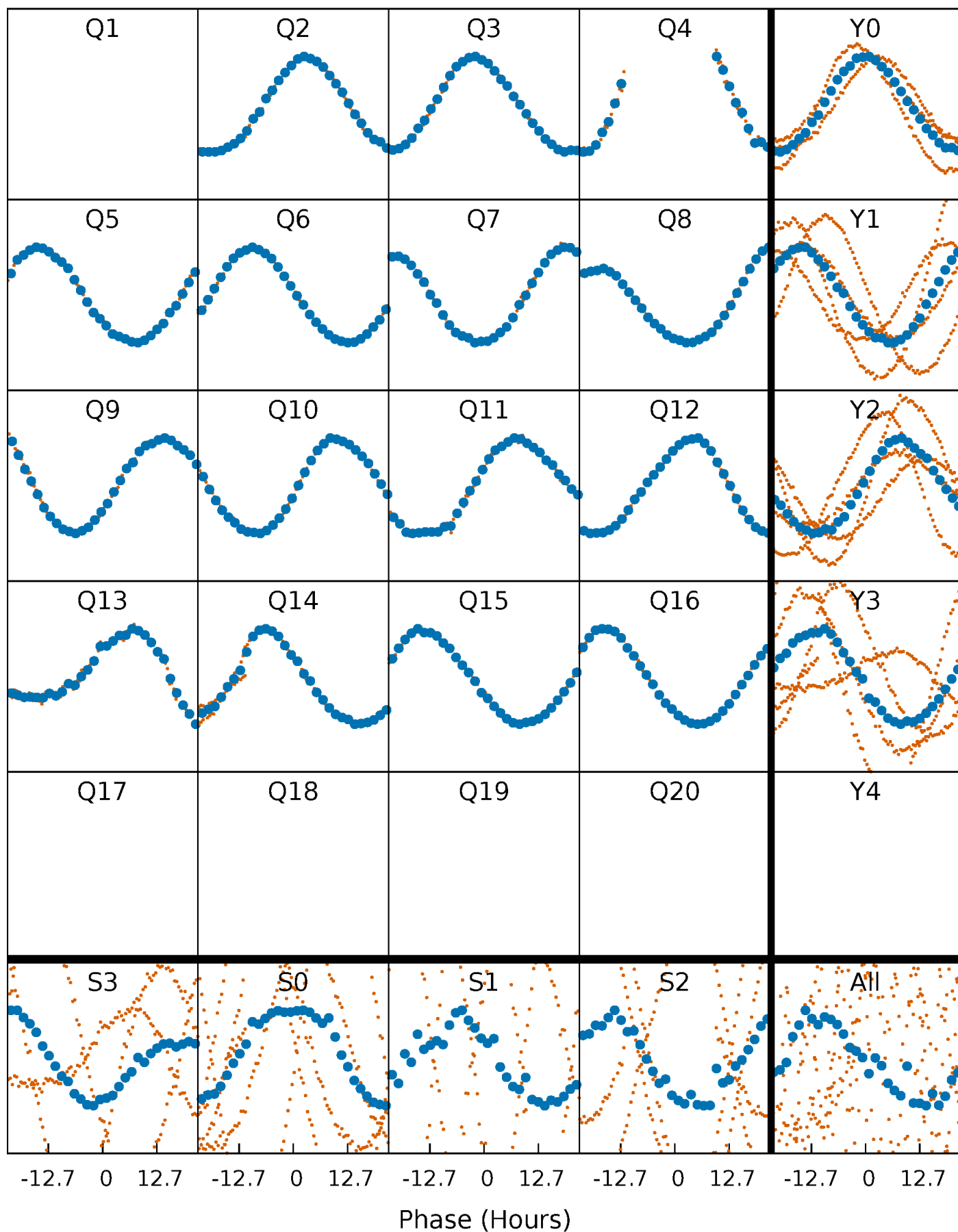


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



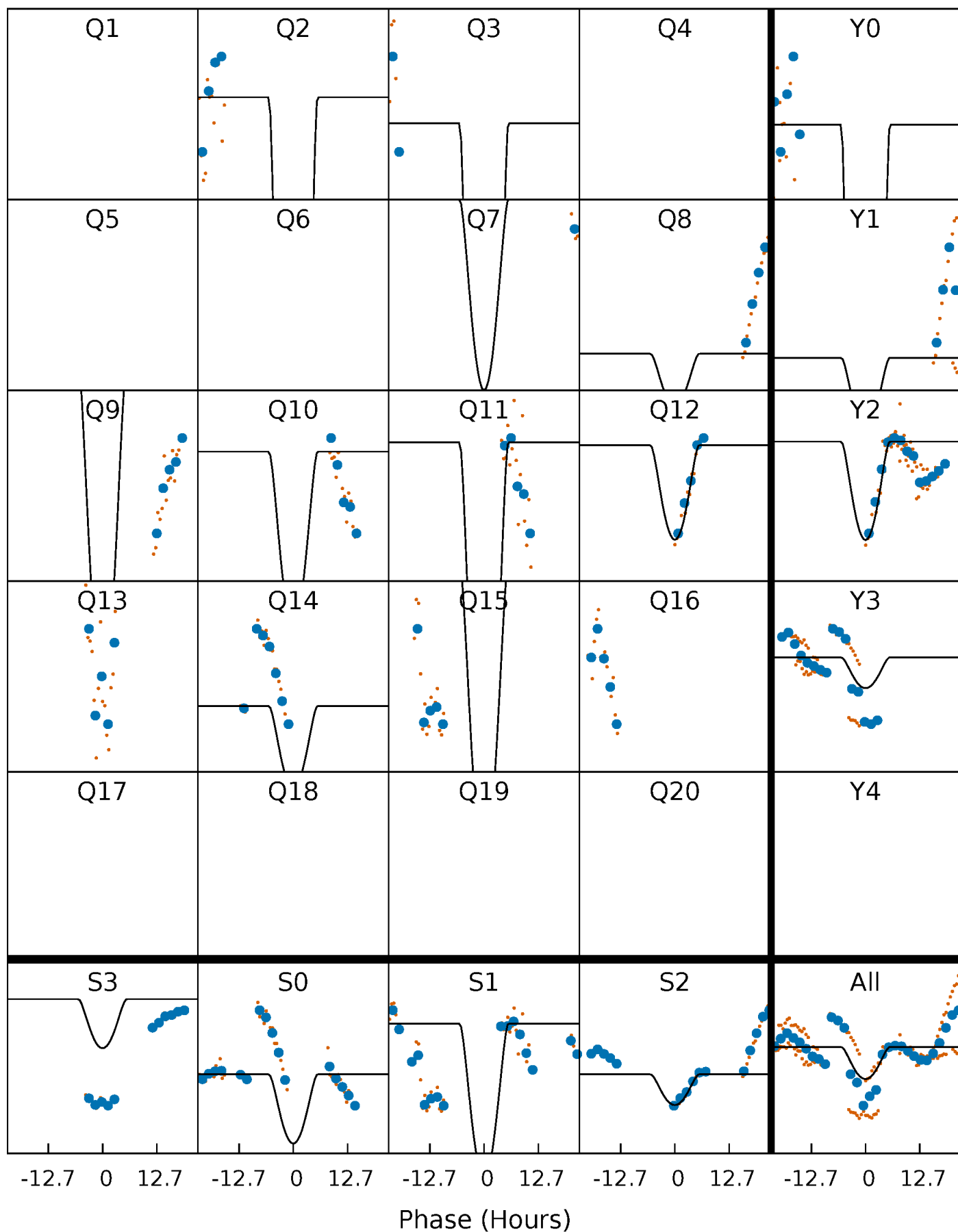
PDC Quarter-Phased Transit Curves

TCE 008750803-02 P= 89.807442 Days $T_0=204.295294$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008750803-02 P= 89.807442 Days $T_0=204.295294$ (BKJD)

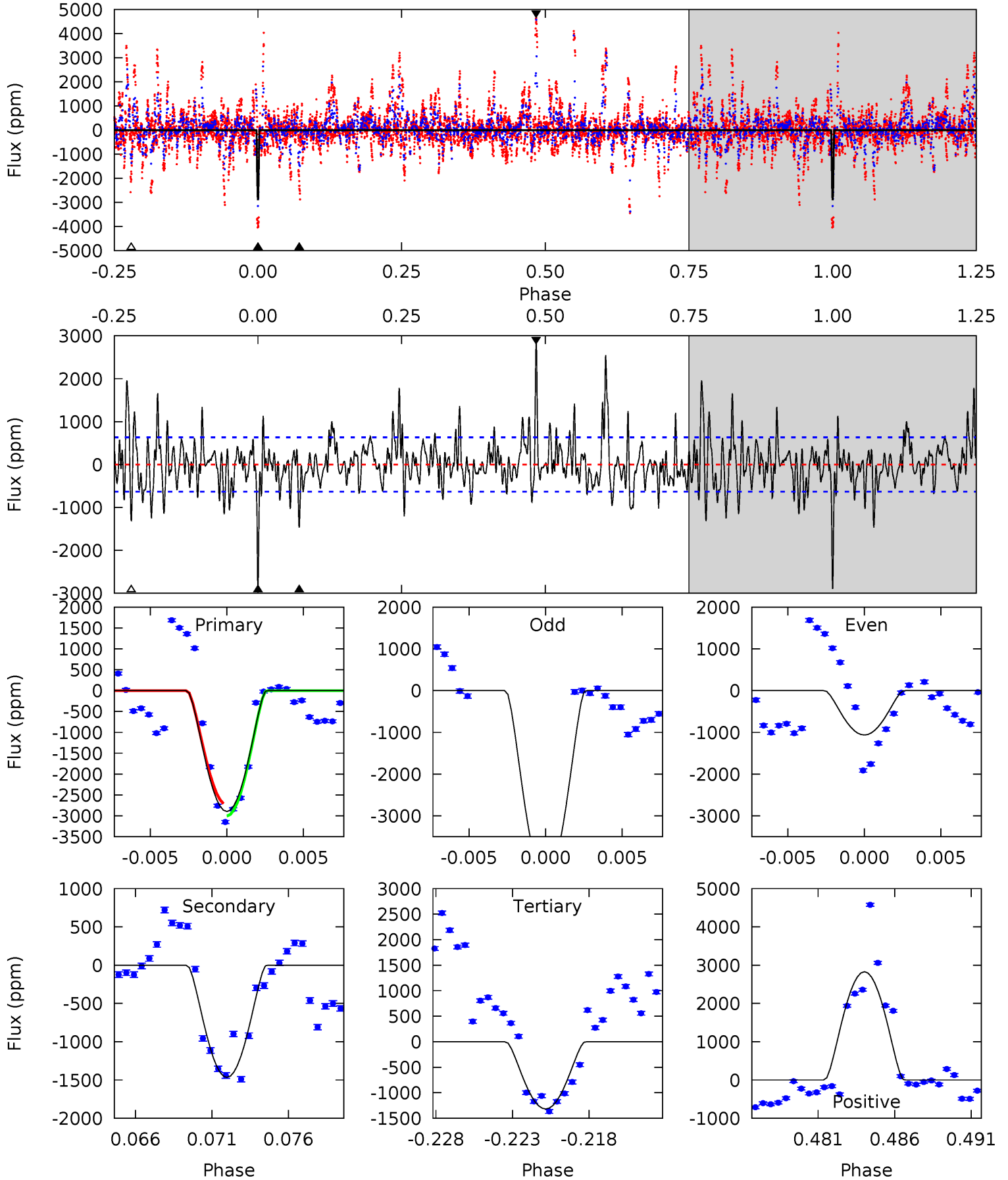


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008750803-02, P = 89.807442 Days, E = 114.487852 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.6	11.9	10.7	23.0	5.16	2.80	4.02	12.9	0.55	1.21	-11.1	14.3	1.68	0.49	1.16



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008750803

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1466 ± 123	$31.16^{+30.67}_{-21.35}$	896^{+70}_{-90}	3900^{+2409}_{-774}	169^{+1550}_{-127}
Alt.	N/A	N/A	N/A	N/A	N/A

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

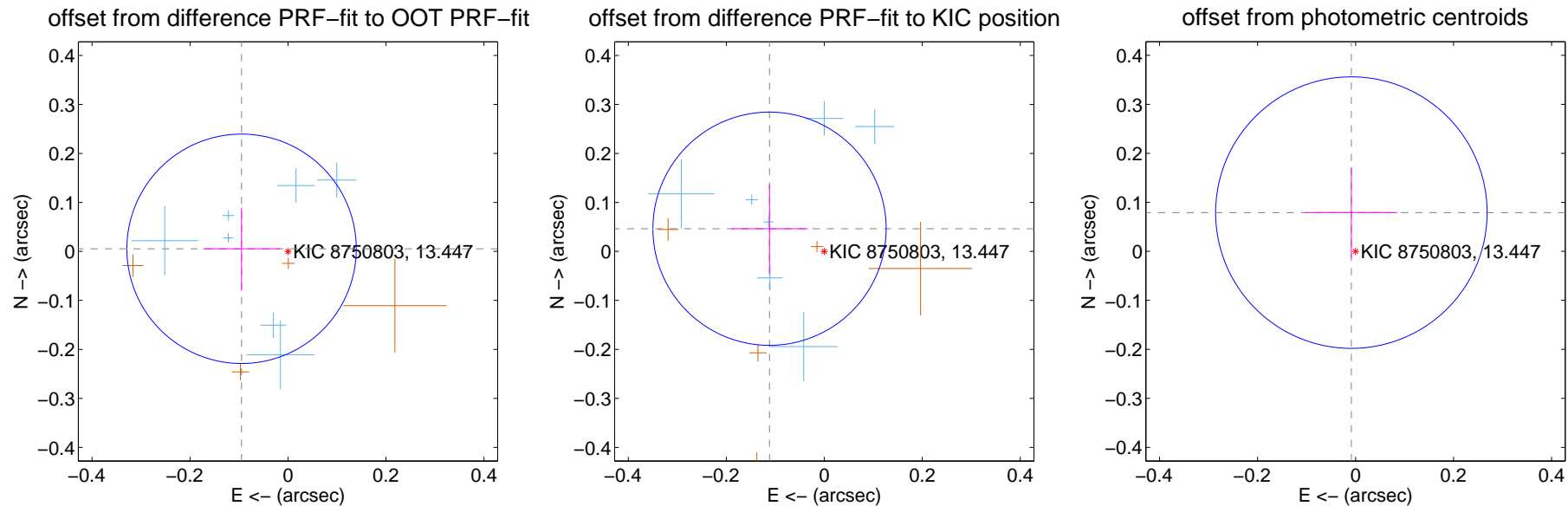
DV Centroid Data

Supplemental centroid analysis for 008750803-02. Kepler magnitude: 13.45. Transit SNR 15.94

There are 7 quarters with good PRF difference image offsets

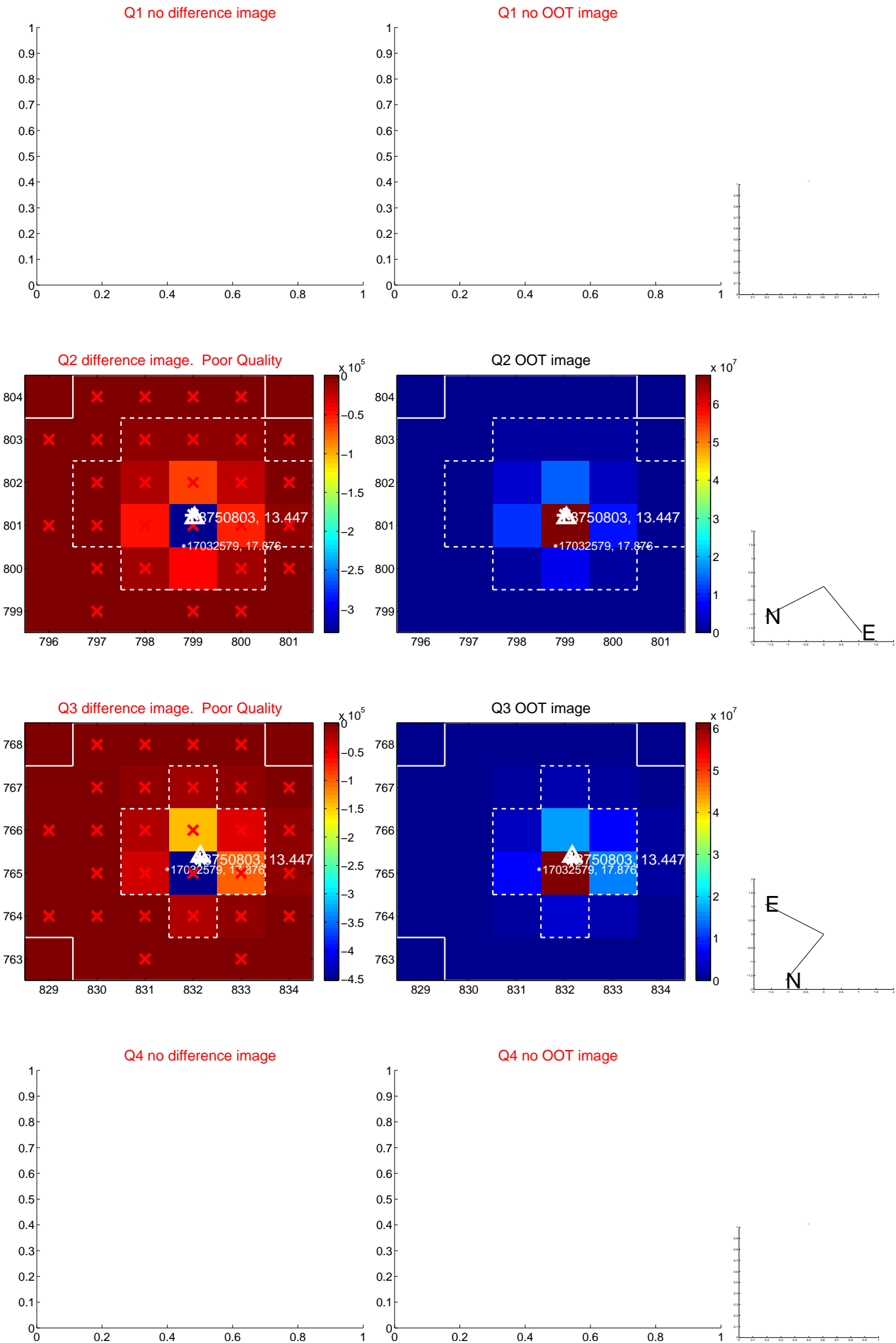
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.095 ± 0.078	1.22	0.095 ± 0.078	0.005 ± 0.085
PRF-fit source offset from KIC position	0.121 ± 0.079	1.53	0.112 ± 0.078	0.046 ± 0.091
photometric centroid source offset	0.08 ± 0.09	0.86	0.01 ± 0.09	0.08 ± 0.09

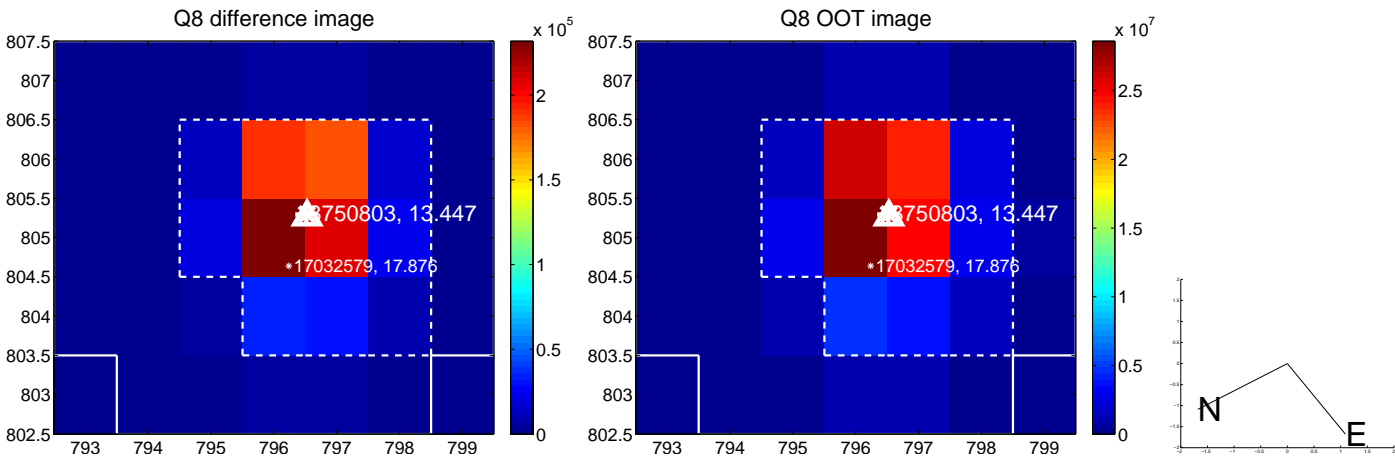
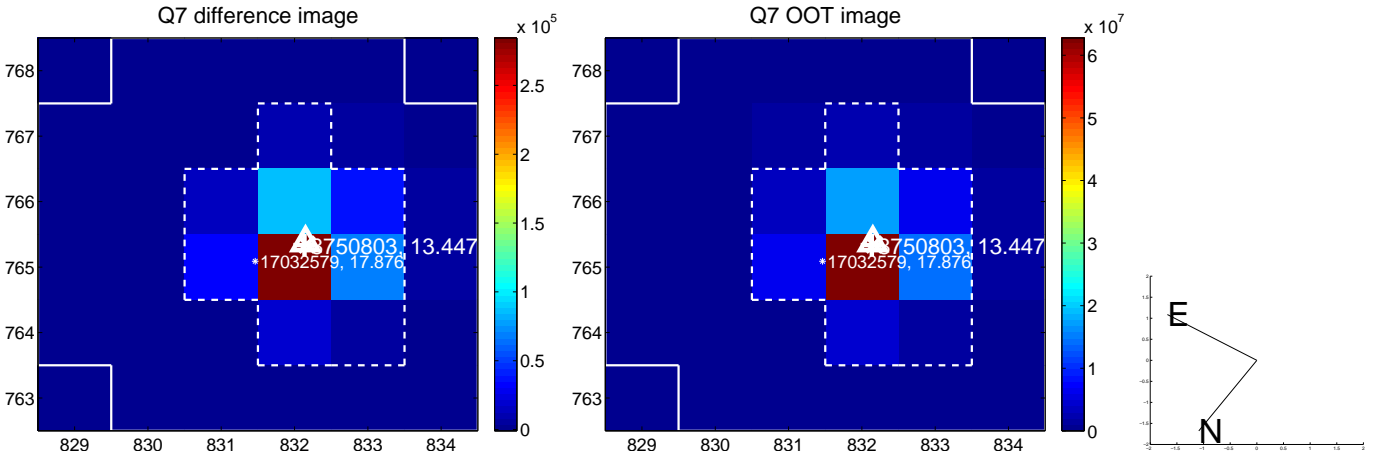
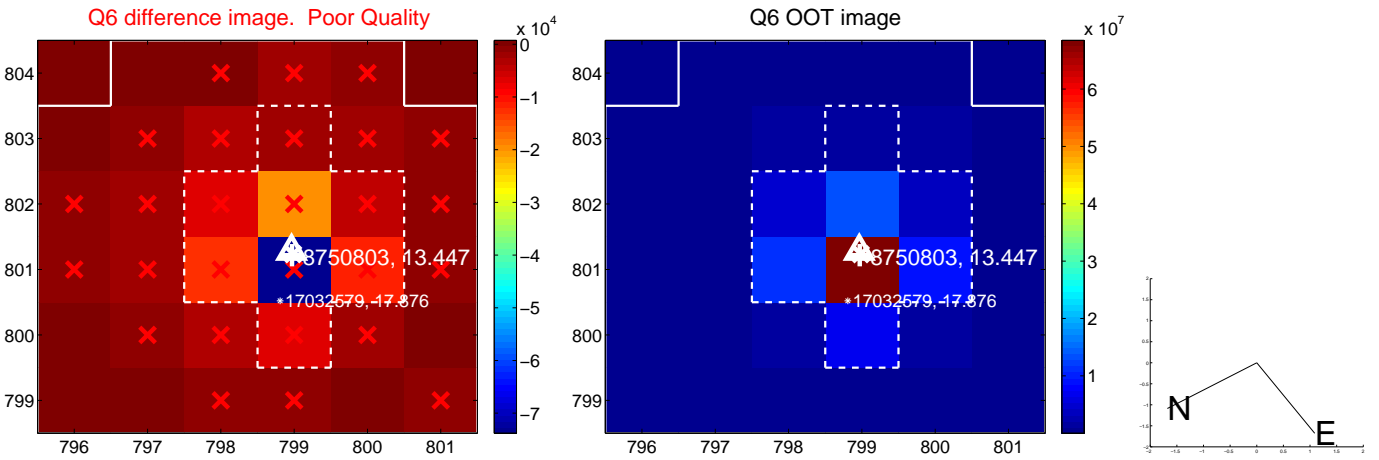
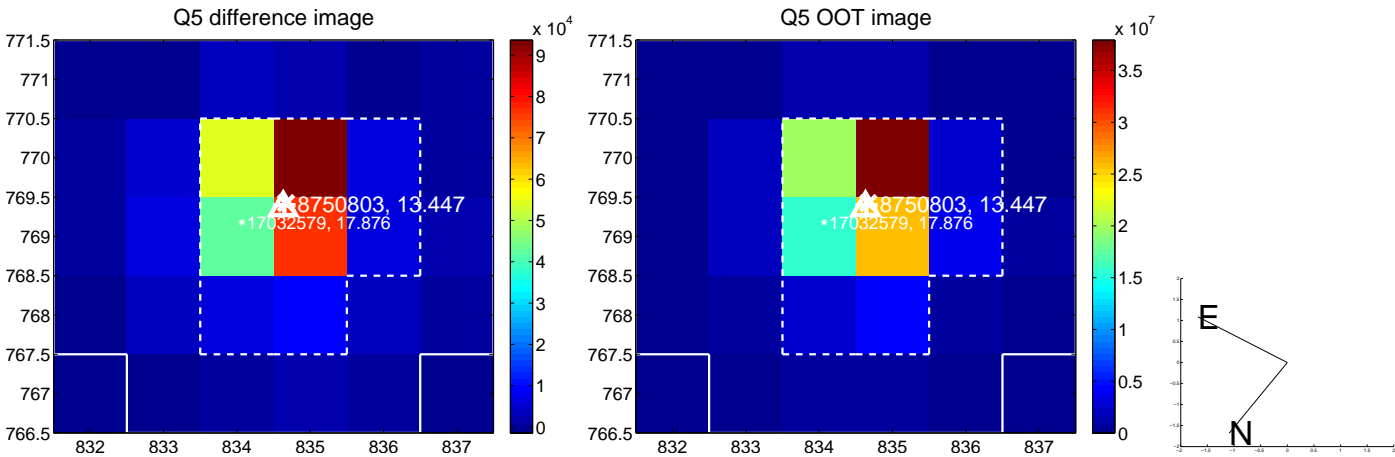


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

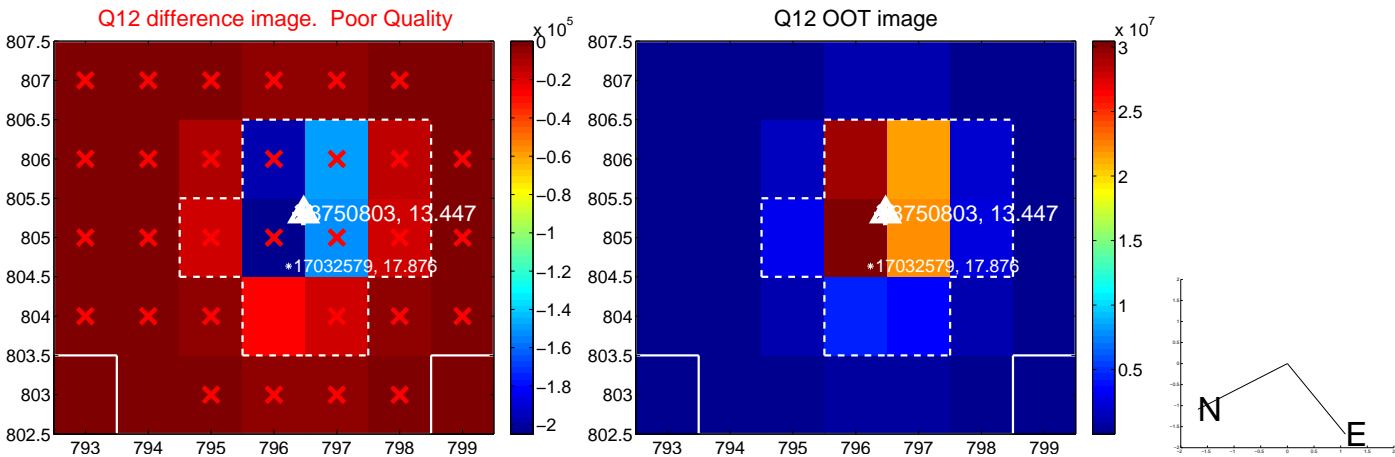
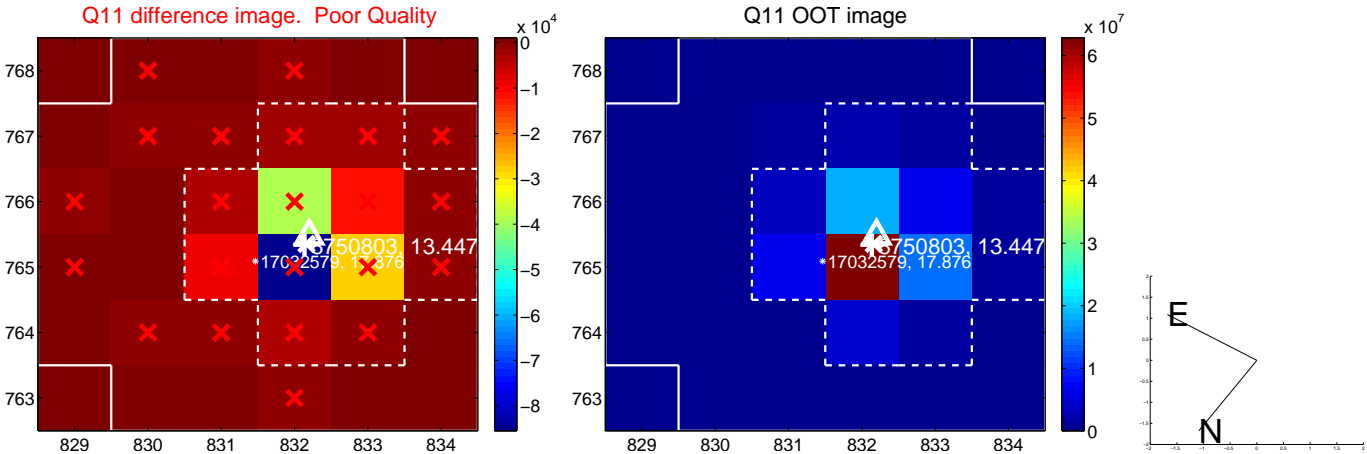
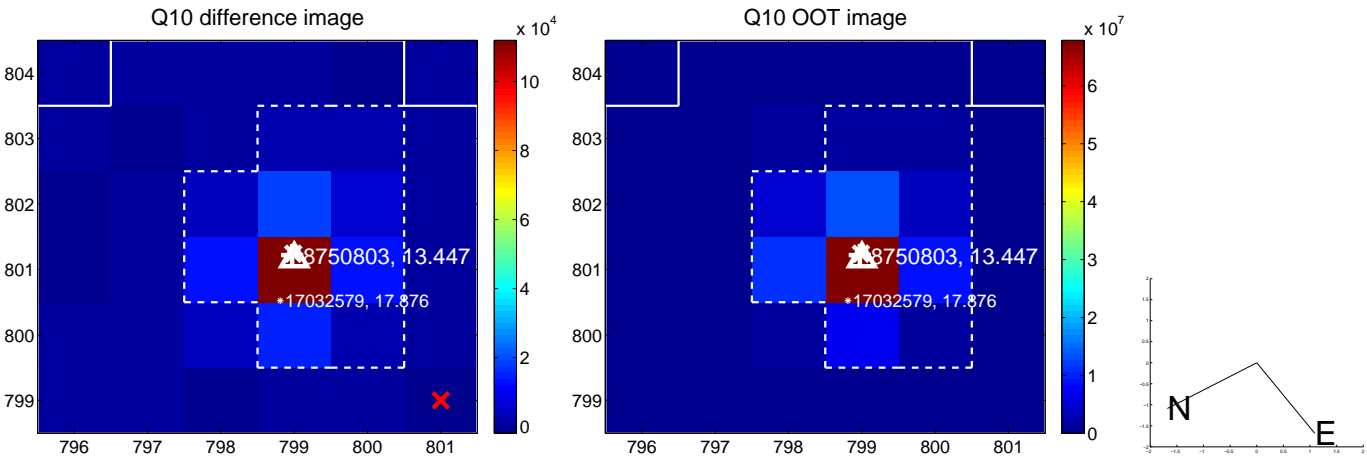
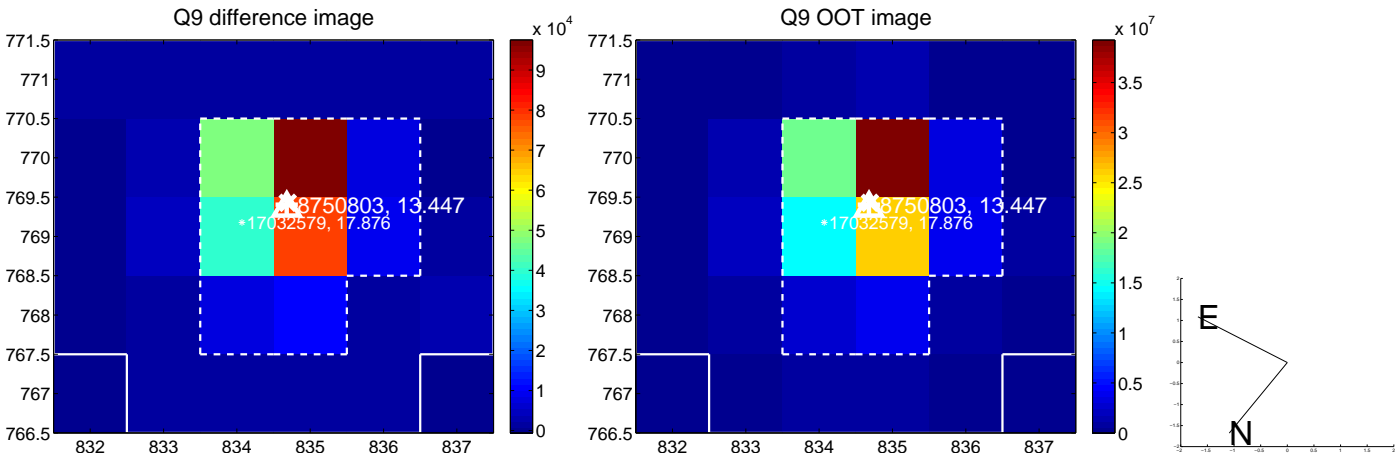
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



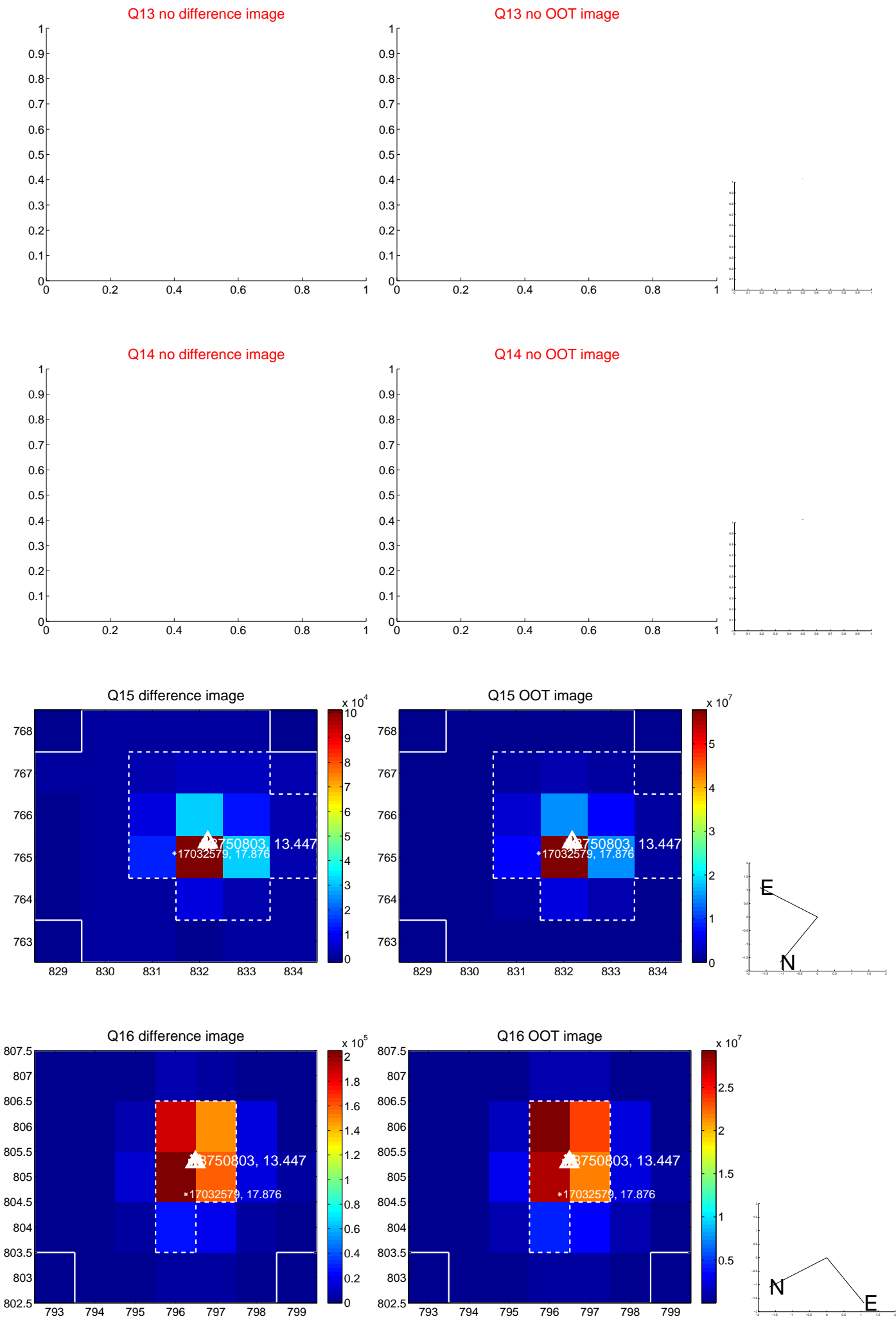
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



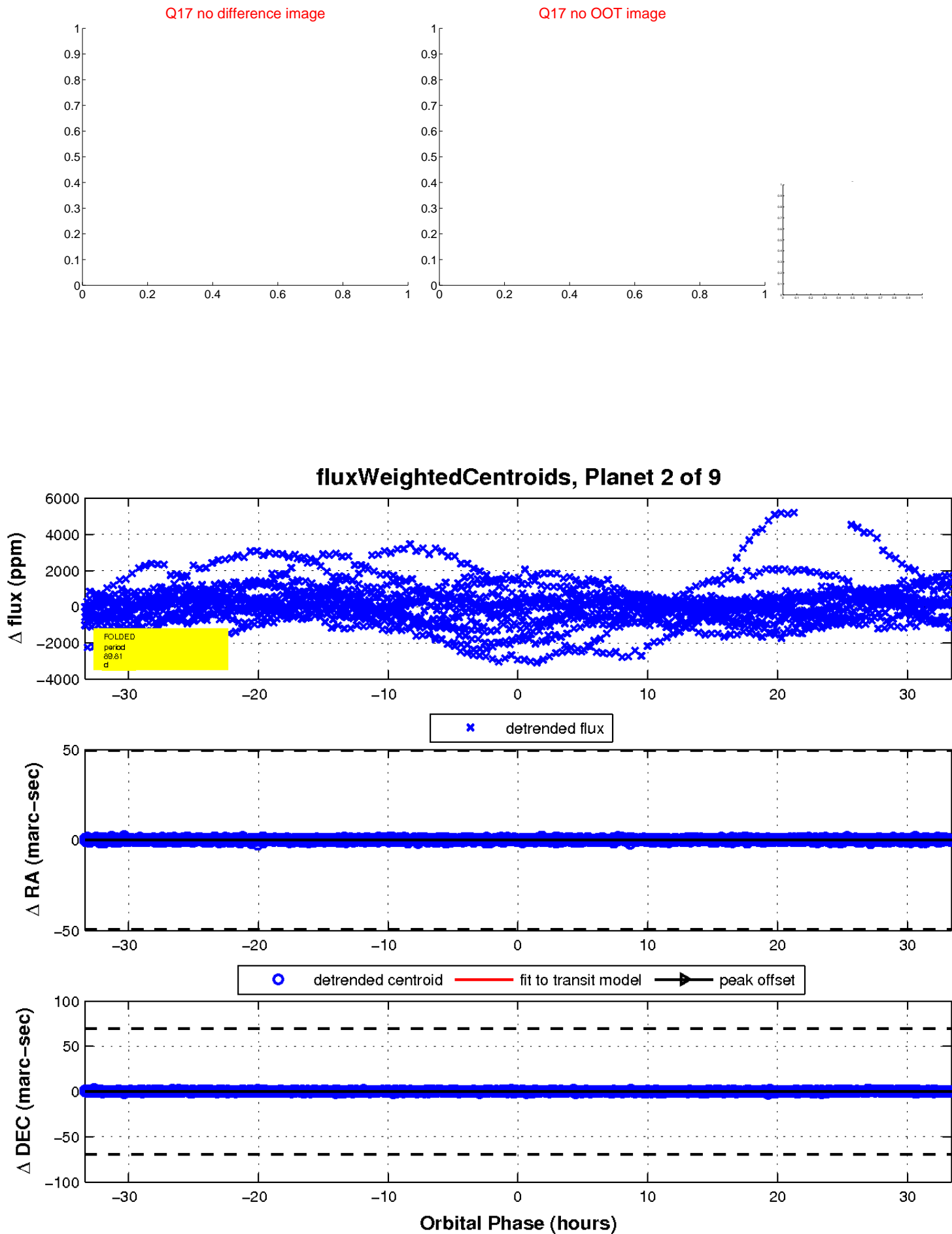
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



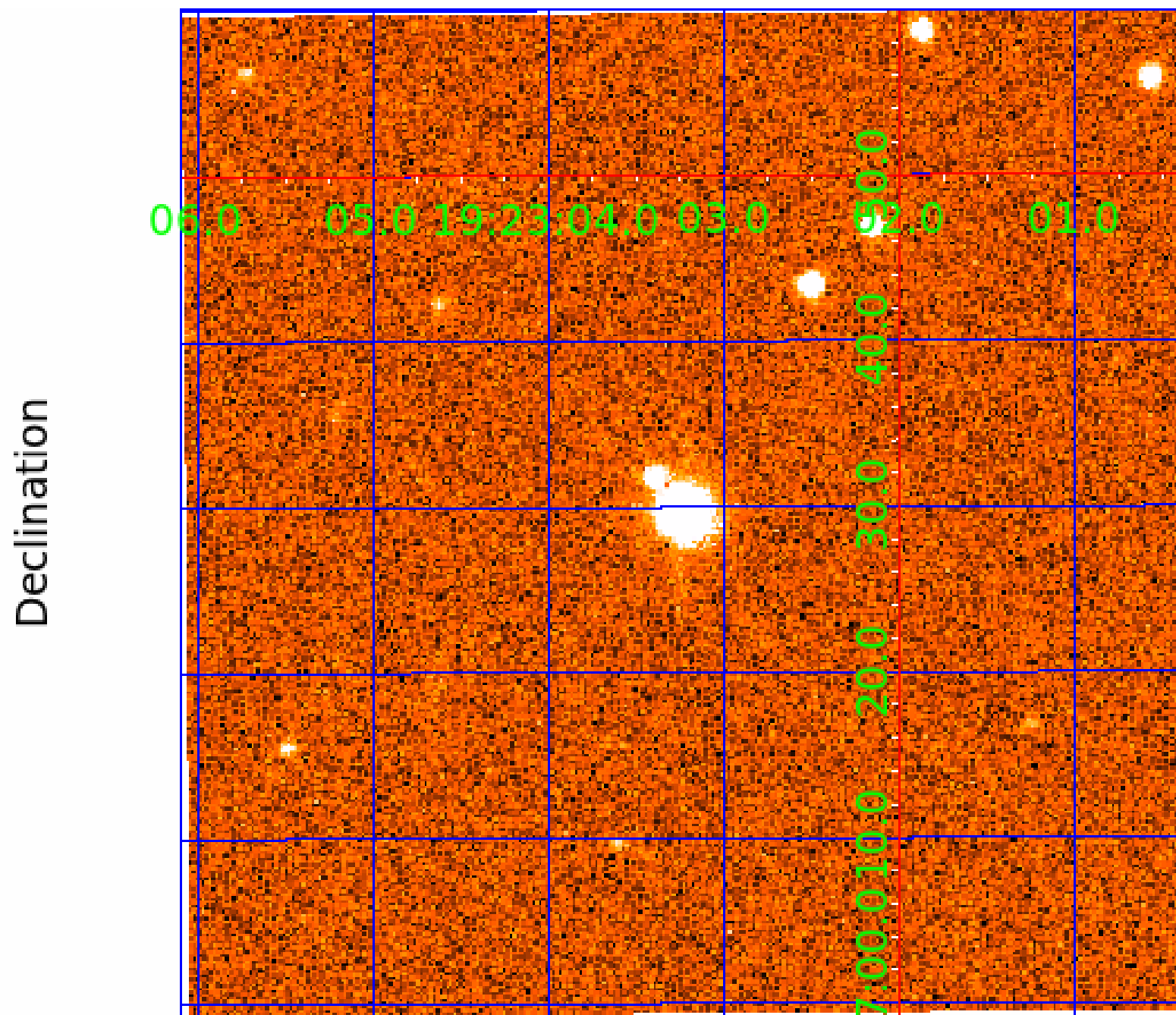
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

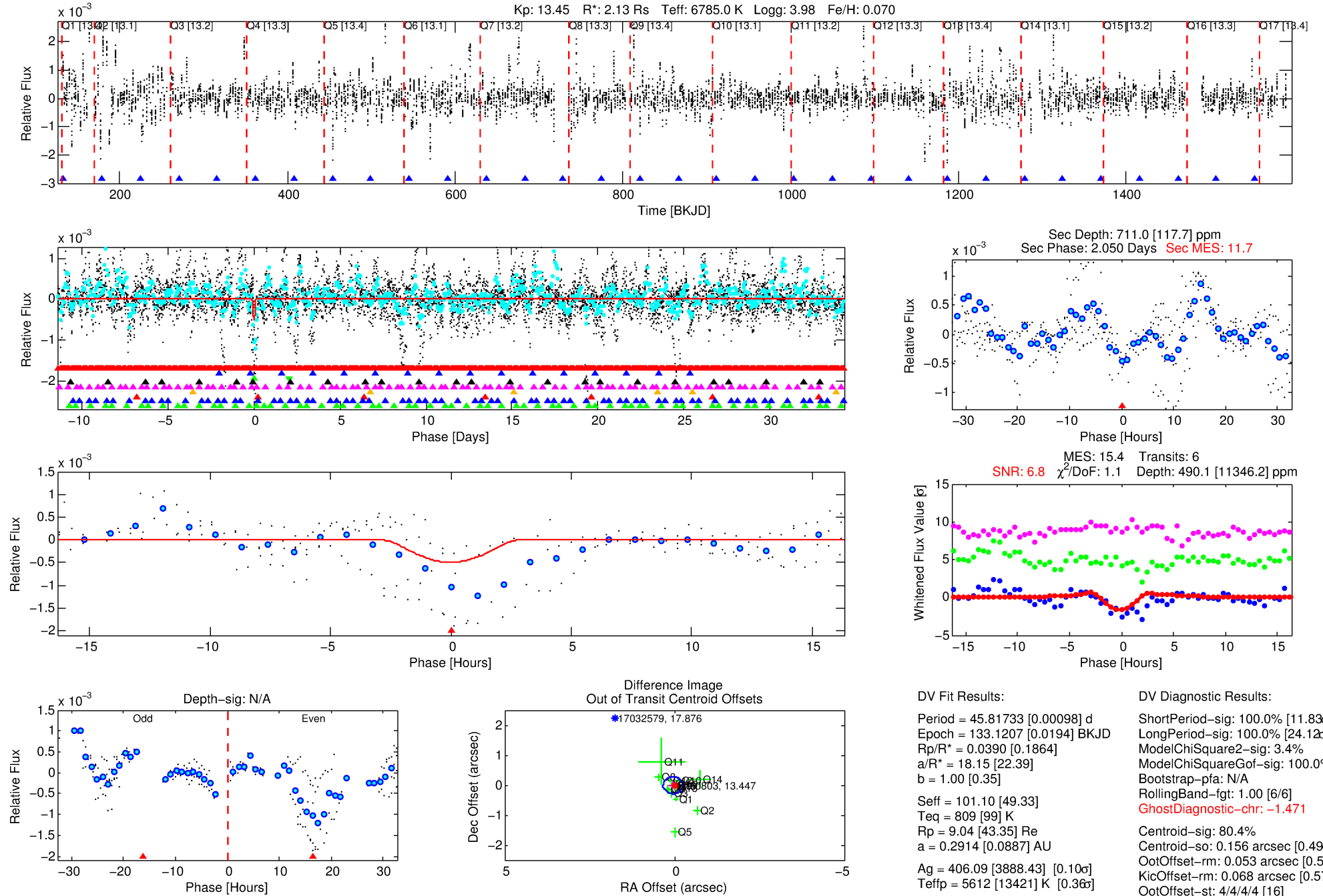
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-03

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 3 of 9 Period: 45.817 d



DV Fit Results:

Period = 45.81733 [0.00098] d
Epoch = 133.1207 [0.0194] BKJD
Rp/R* = 0.0390 [0.1864]
a/R* = 18.15 [22.39]
b = 1.00 [0.35]
Seff = 101.10 [49.33]
Teff = 809 [99] K
Rp = 9.04 [43.35] Re
a = 0.2914 [0.0887] AU
Ag = 406.09 [3888.43] [0.10] σ
Teffp = 5612 [13421] K [0.36] σ

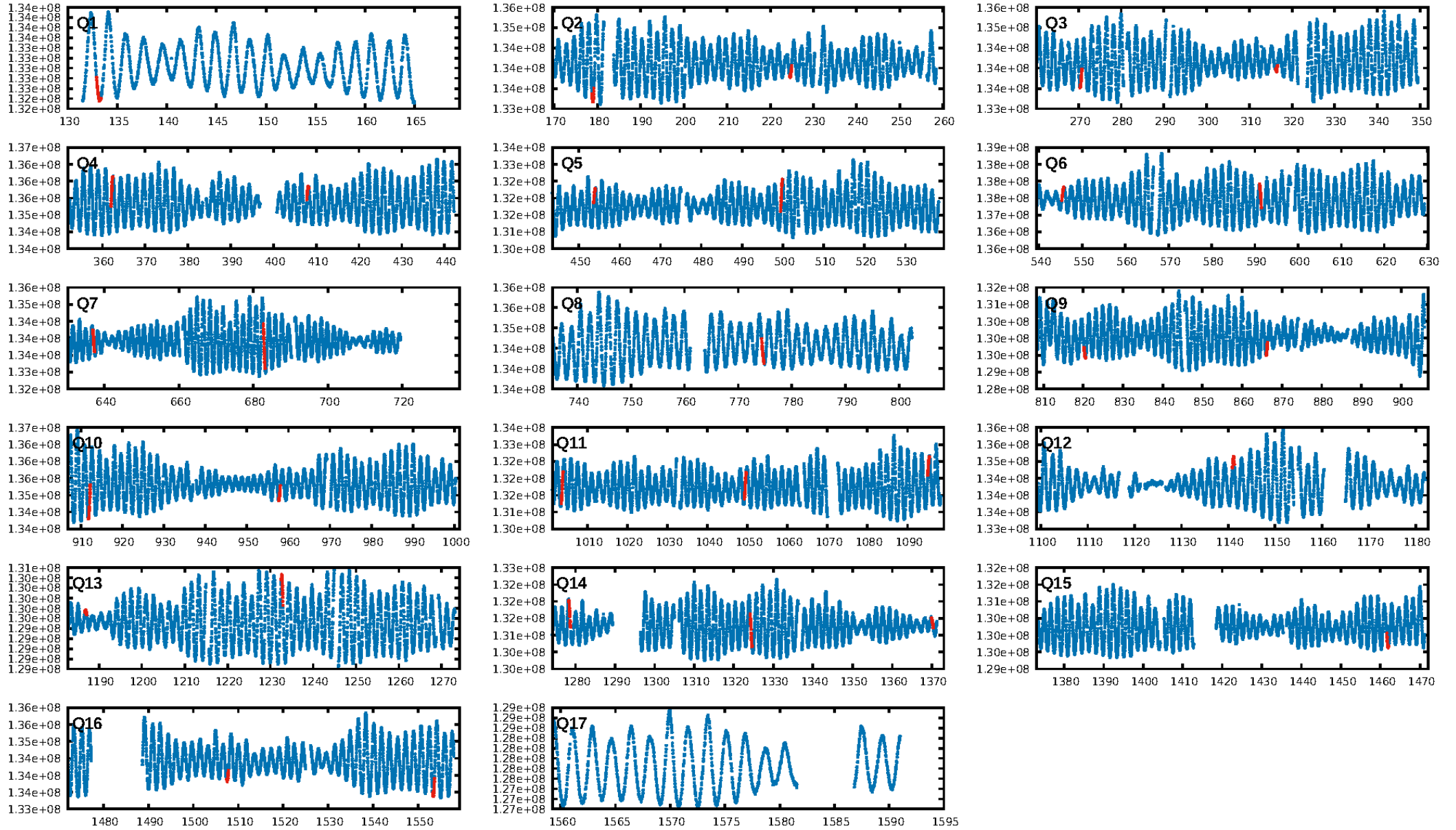
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.83] σ
LongPeriod-sig: 100.0% [24.12] σ
ModelChiSquare2-sig: 3.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -1.471
Centroid-sig: 80.4%
Centroid-so: 0.156 arcsec [0.49] σ
OotOffset-rm: 0.053 arcsec [0.56] σ
KicOffset-rm: 0.068 arcsec [0.57] σ
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.62 [10/16]
DiffImageOverlap-fno: 0.44 [7/16]

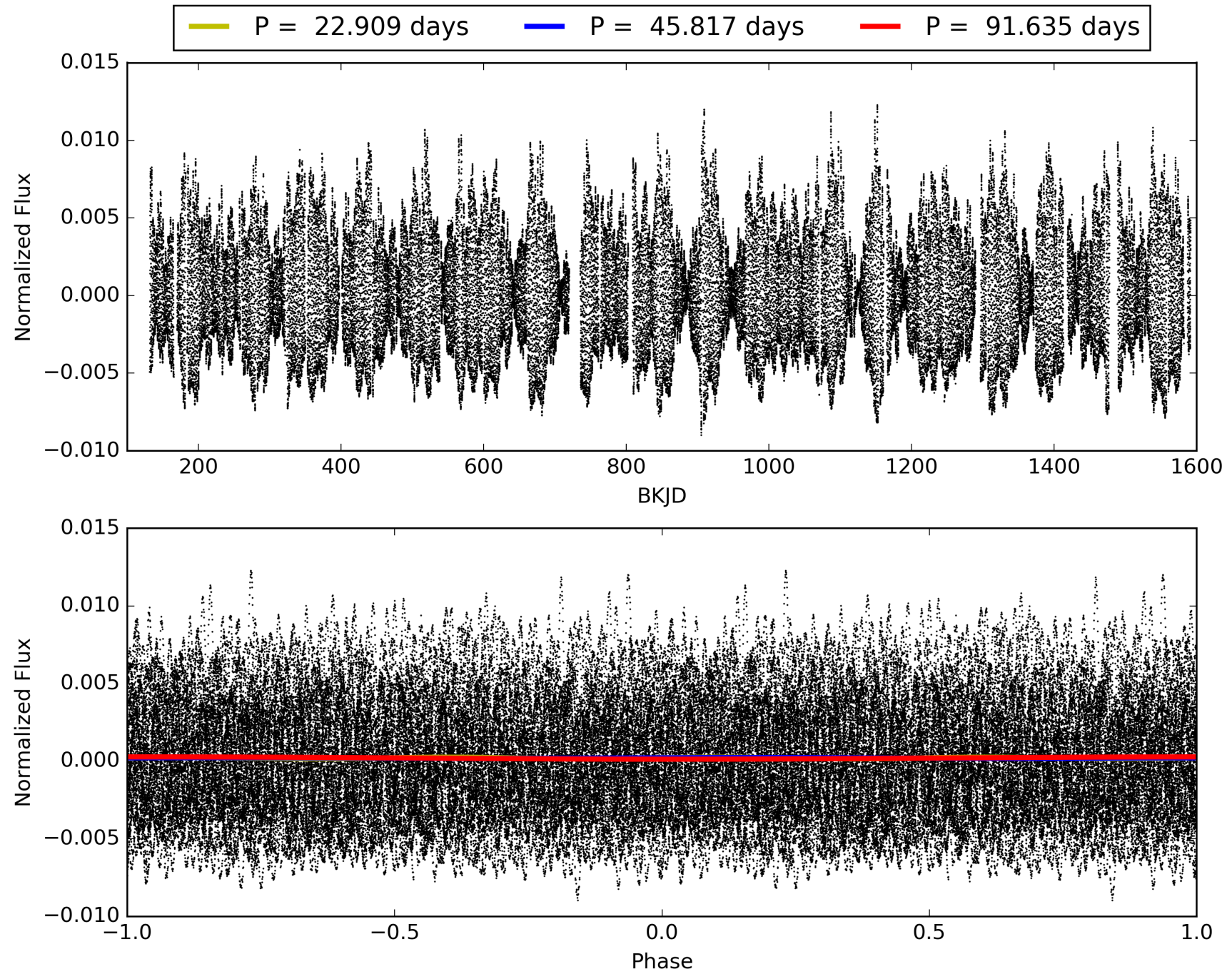
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:32:59 Z

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

TCE 008750803-03, PDC Light Curves

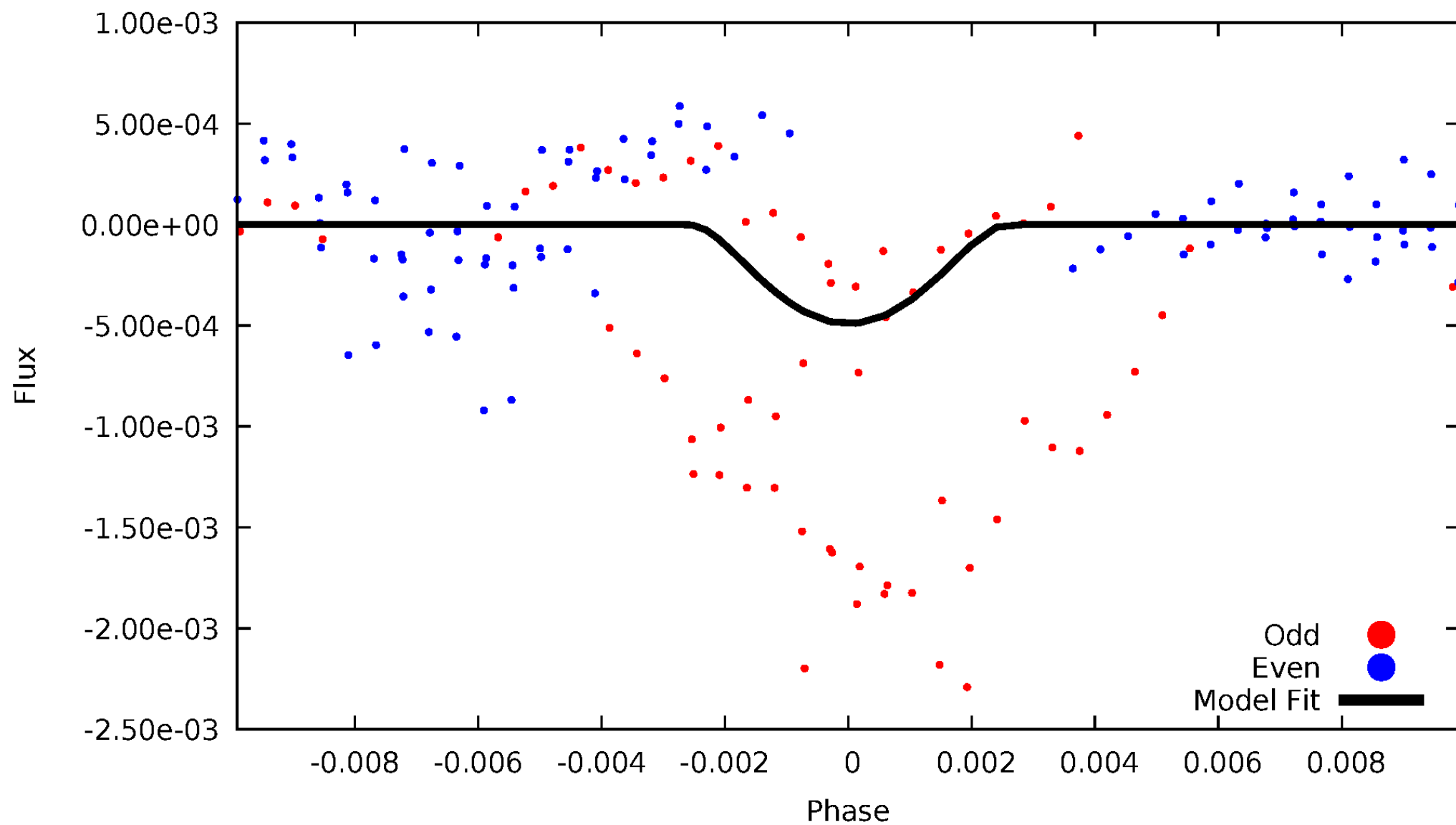


TCE 008750803-03



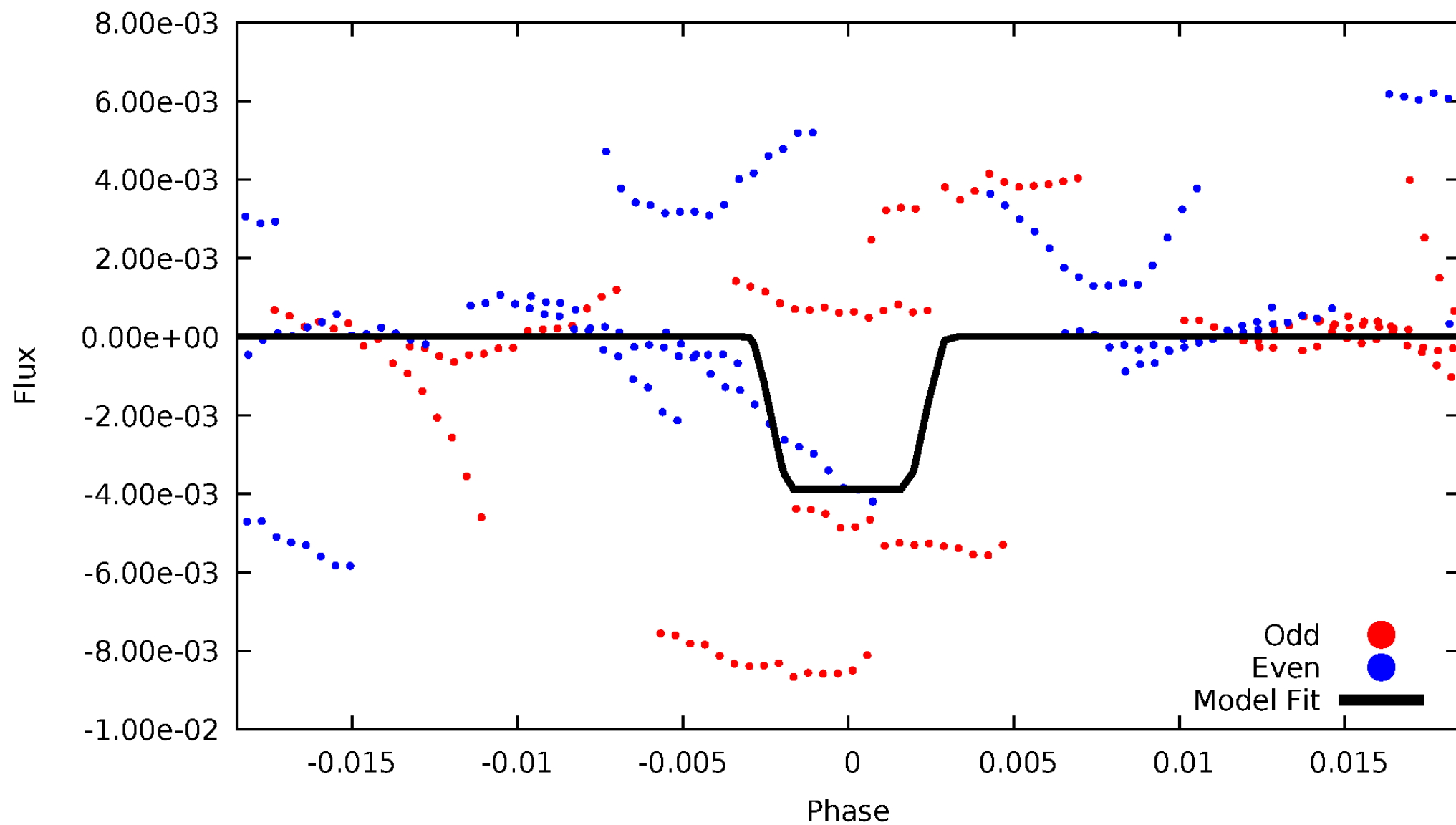
DV Odd/Even

TCE 008750803-03



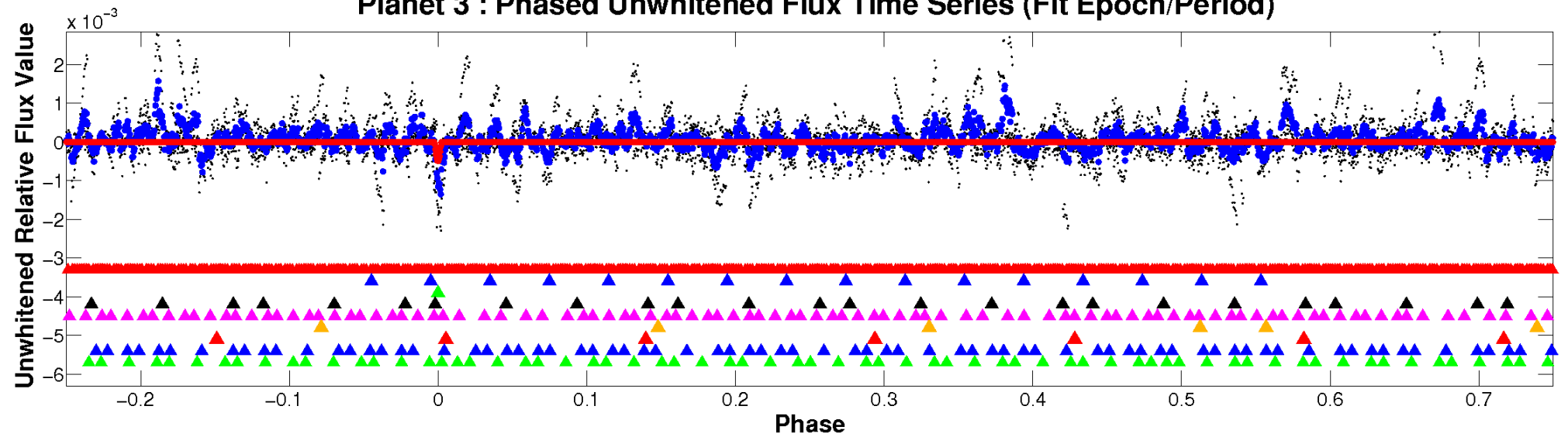
ALT Odd/Even

TCE 008750803-03

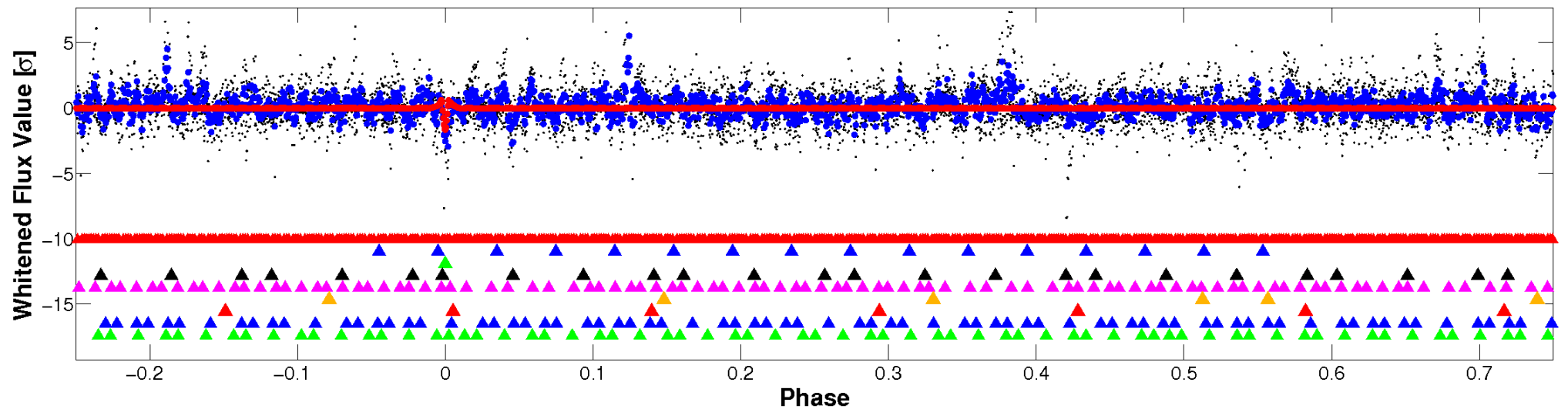


Non-Whitened Vs. Whitened Light Curve

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

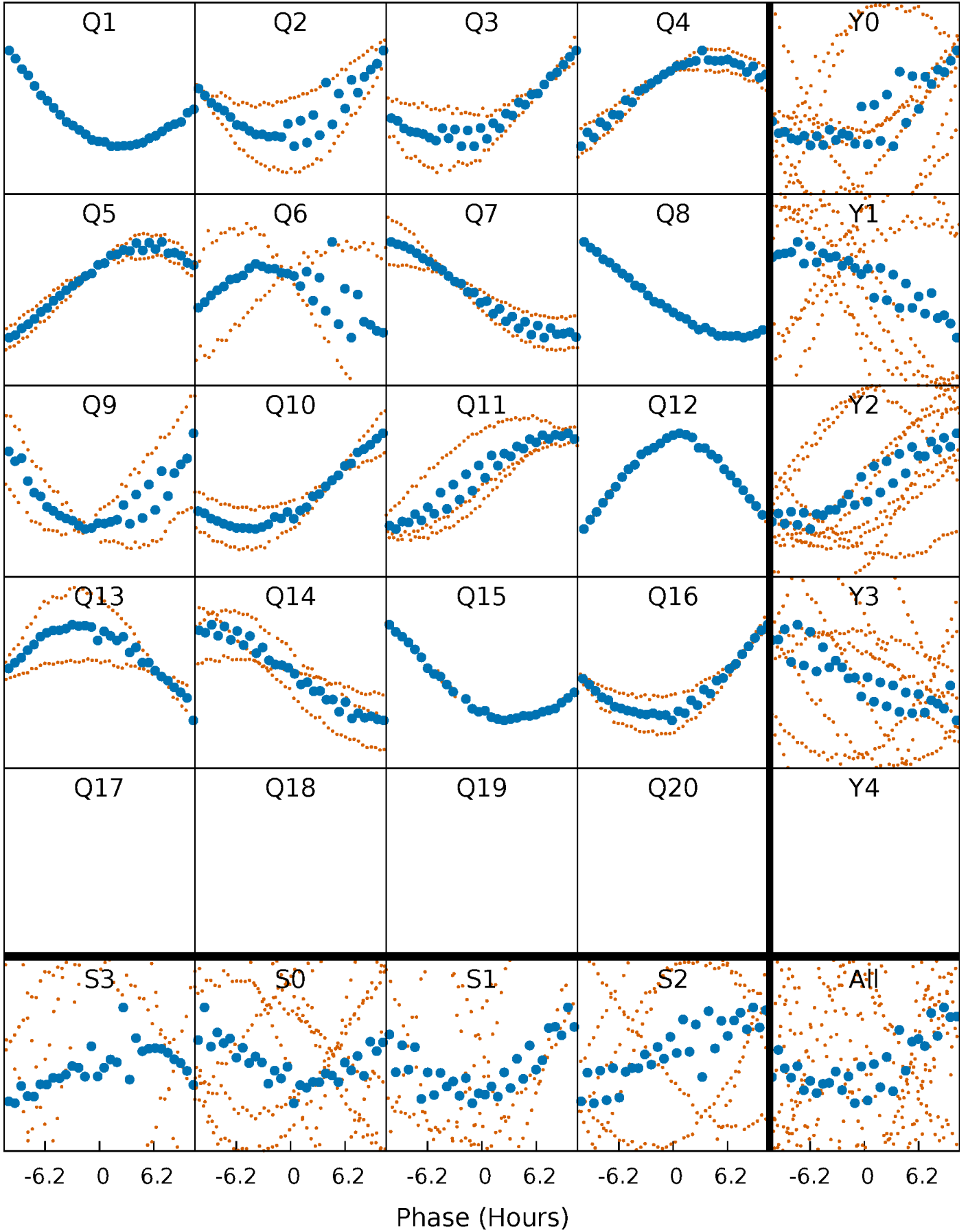


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



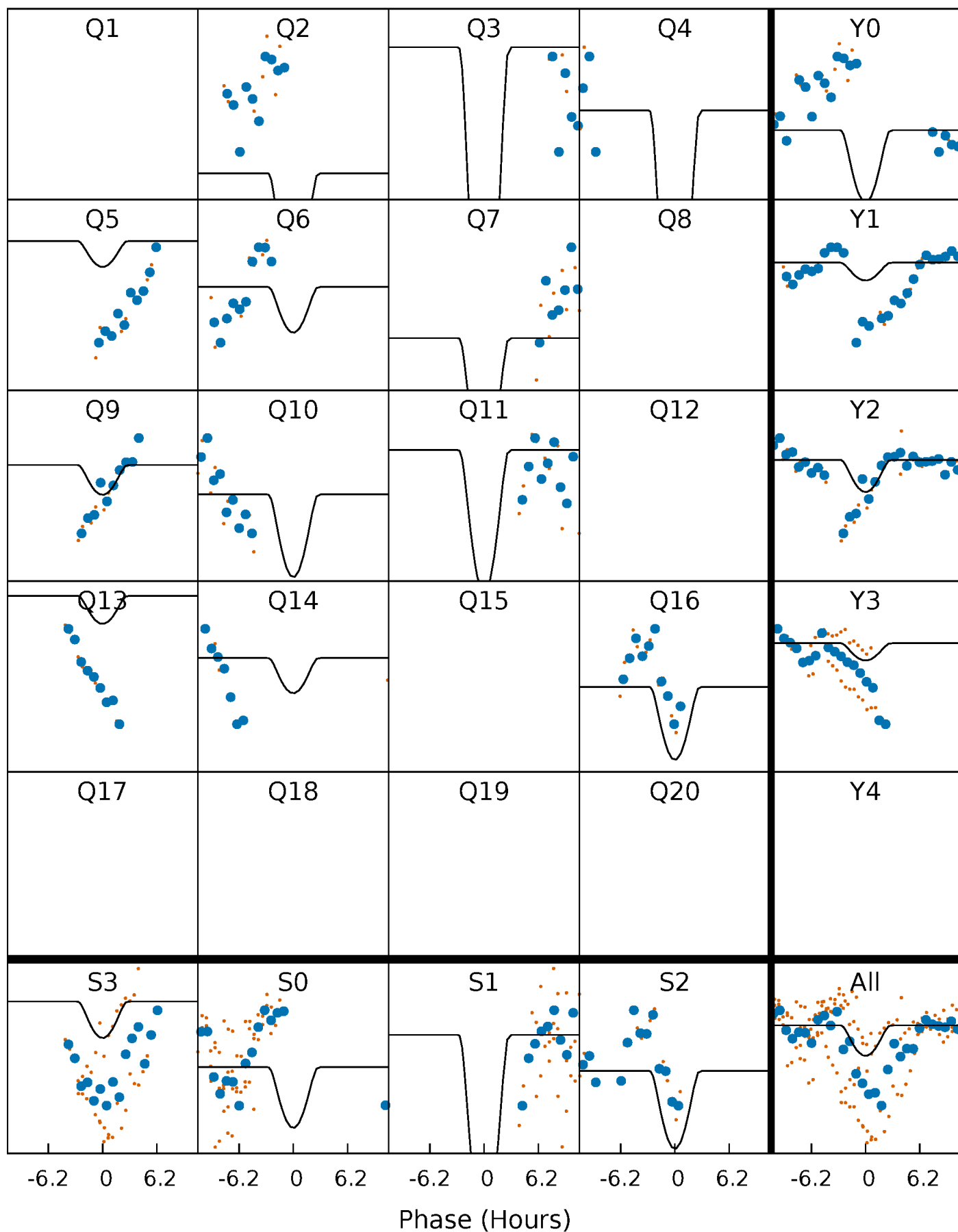
PDC Quarter-Phased Transit Curves

TCE 008750803-03 P= 45.817335 Days $T_0=133.120726$ (BKJD)



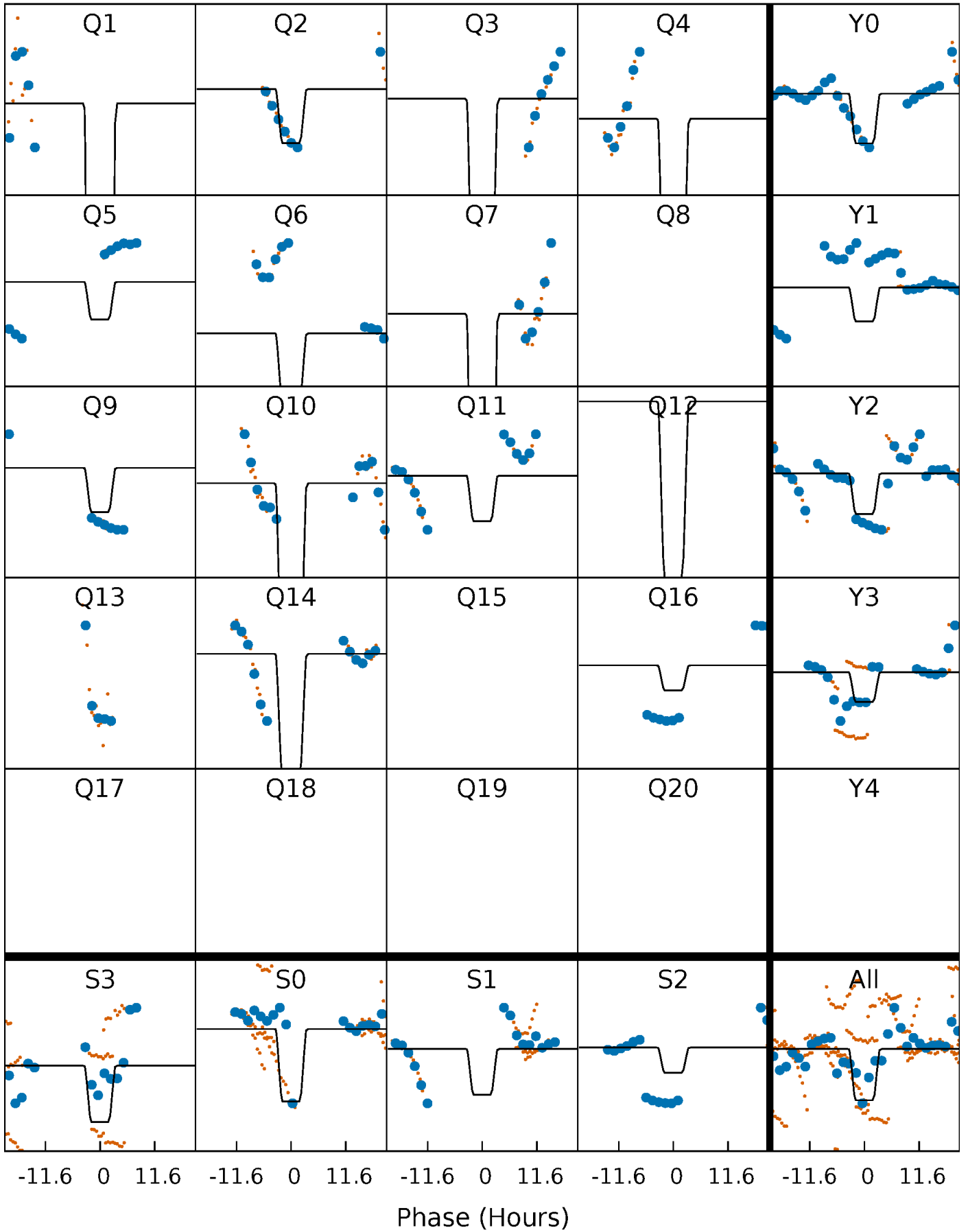
DV Quarter-Phased Transit Curves

TCE 008750803-03 $P = 45.817335$ Days $T_0 = 133.120726$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

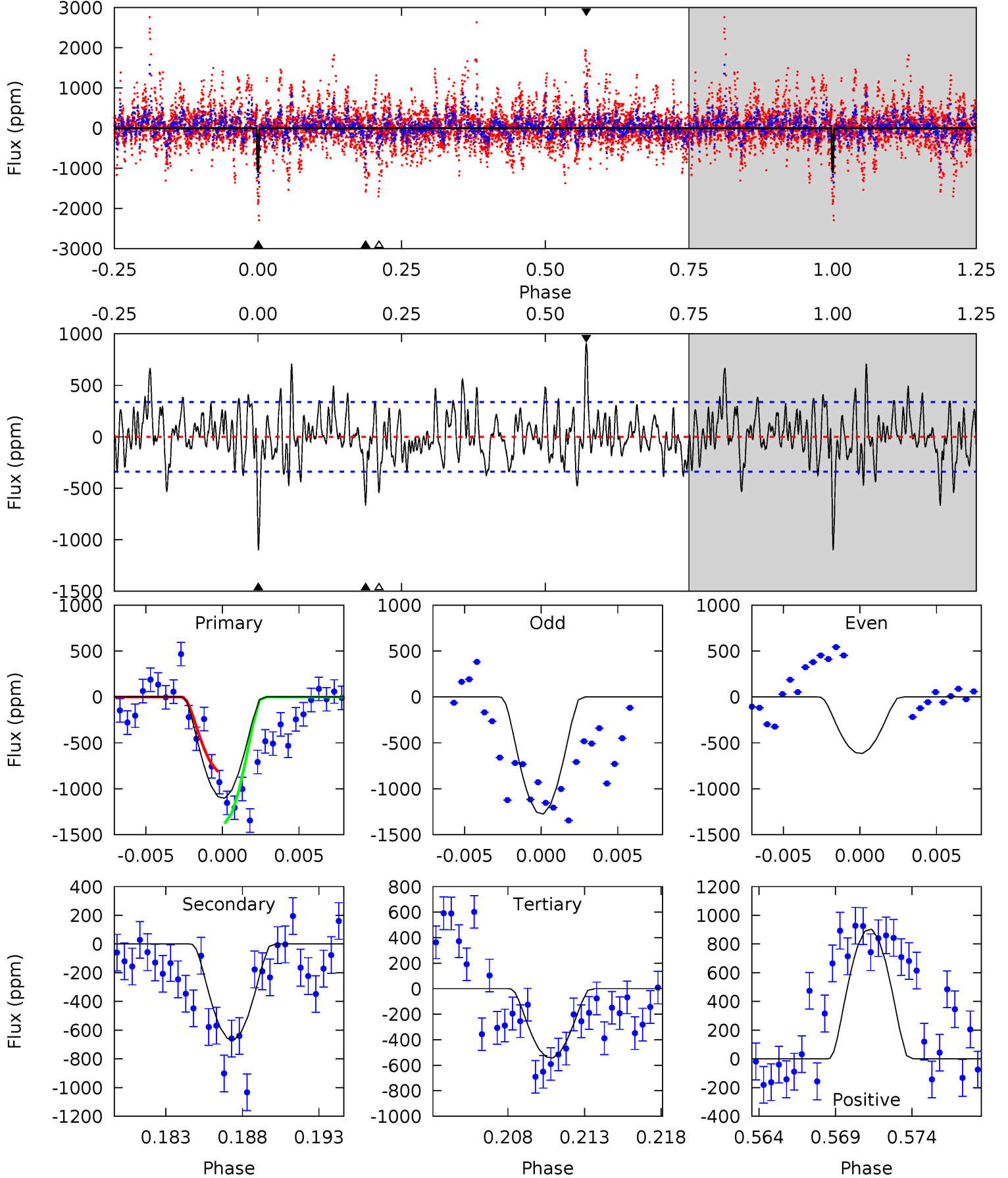
TCE 008750803-03 $P = 45.820002$ Days $T_0 = 133.037734$ (BKJD)



DV Model-Shift Uniqueness Test

008750803-03, P = 45.817335 Days, E = 87.303391 Days

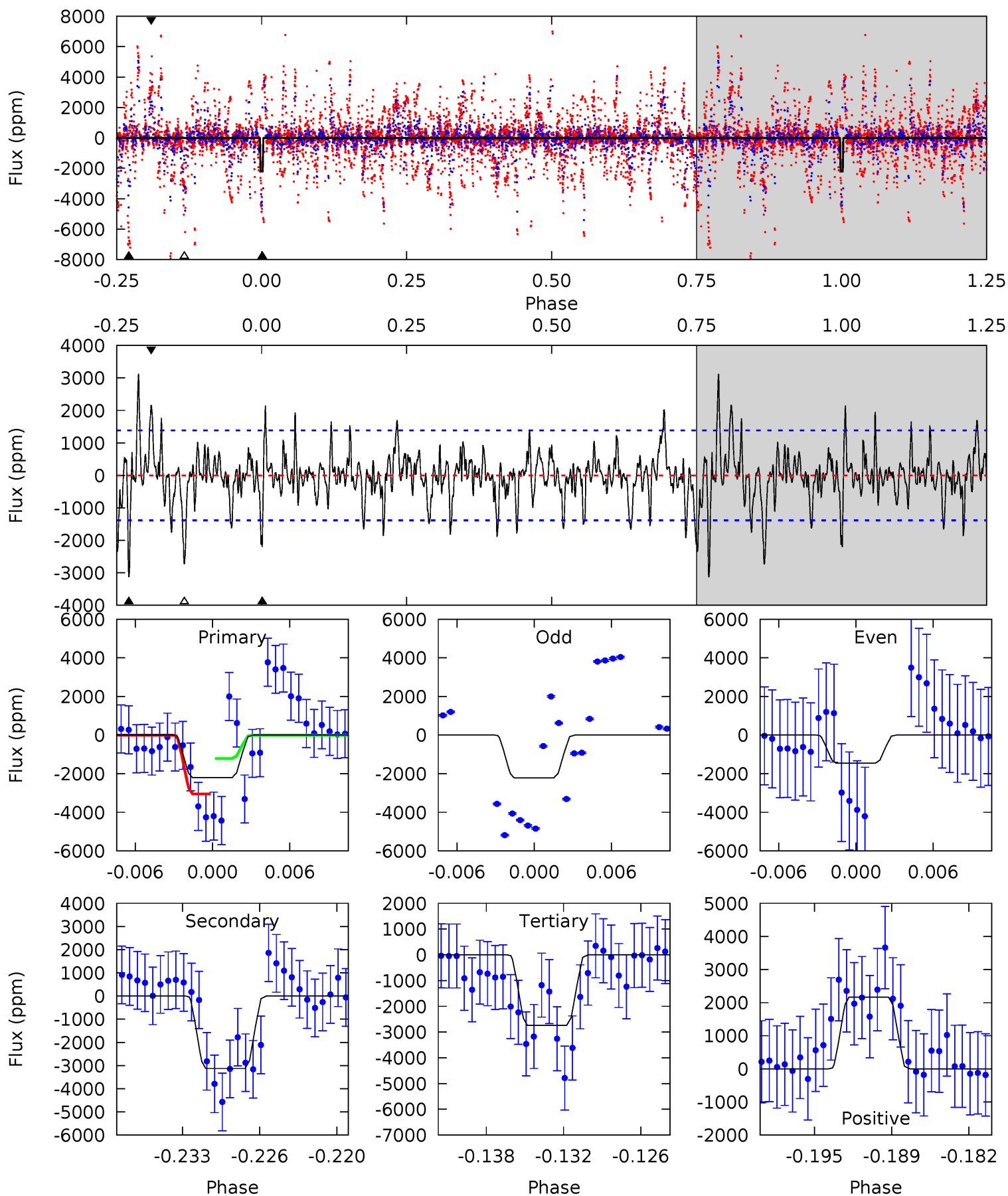
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.8	10.2	8.28	13.8	5.16	2.81	3.07	8.55	3.05	1.91	-3.59	3.25	1.24	0.45	4.29



Alt Model-Shift Uniqueness Test

008750803-03, P = 45.820002 Days, E = 87.217732 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.16	11.6	10.1	8.01	5.11	2.73	2.27	-1.95	0.15	1.45	3.55	1.15	0.96	0.50	3.47



Stellar Parameters For KIC 008750803

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-668 ± 66	$31.36^{+36.56}_{-21.93}$	1111^{+103}_{-92}	3410^{+1863}_{-690}	32^{+308}_{-25}
Alt.	-3129 ± 271	$34.71^{+32.67}_{-24.50}$	1121^{+89}_{-102}	4297^{+3685}_{-824}	128^{+1358}_{-95}

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 $A_{obs} \gg 1.0$

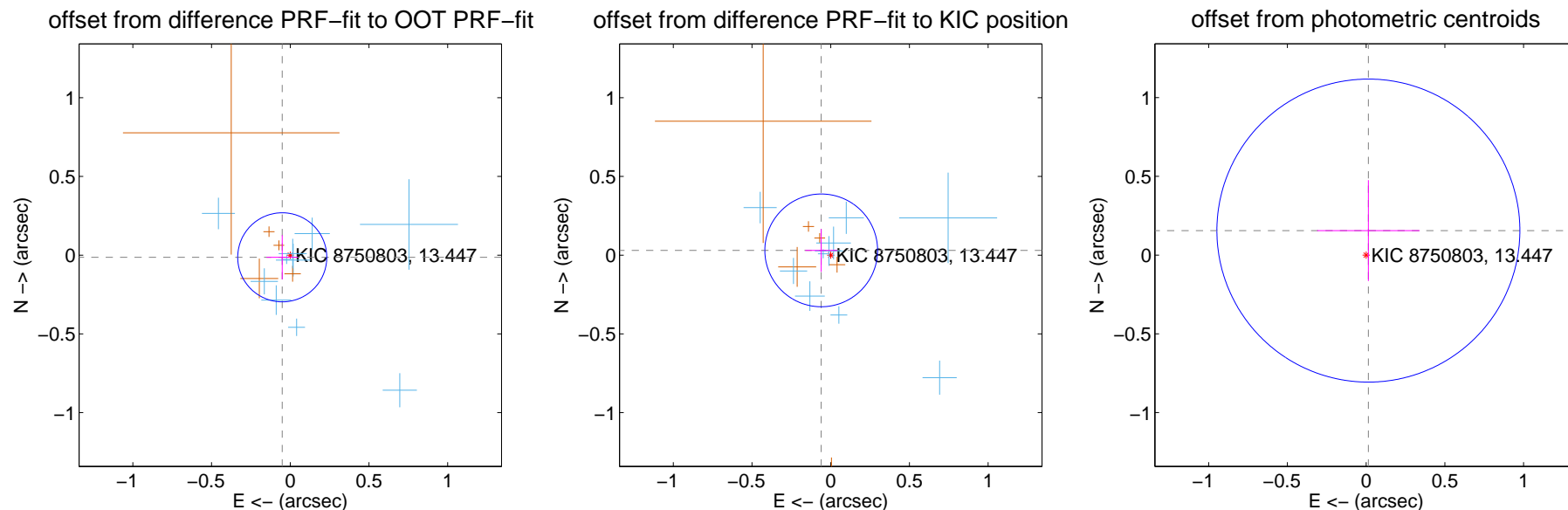
DV Centroid Data

Supplemental centroid analysis for 008750803-03. Kepler magnitude: 13.45. Transit SNR 6.77

There are 10 quarters with good PRF difference image offsets

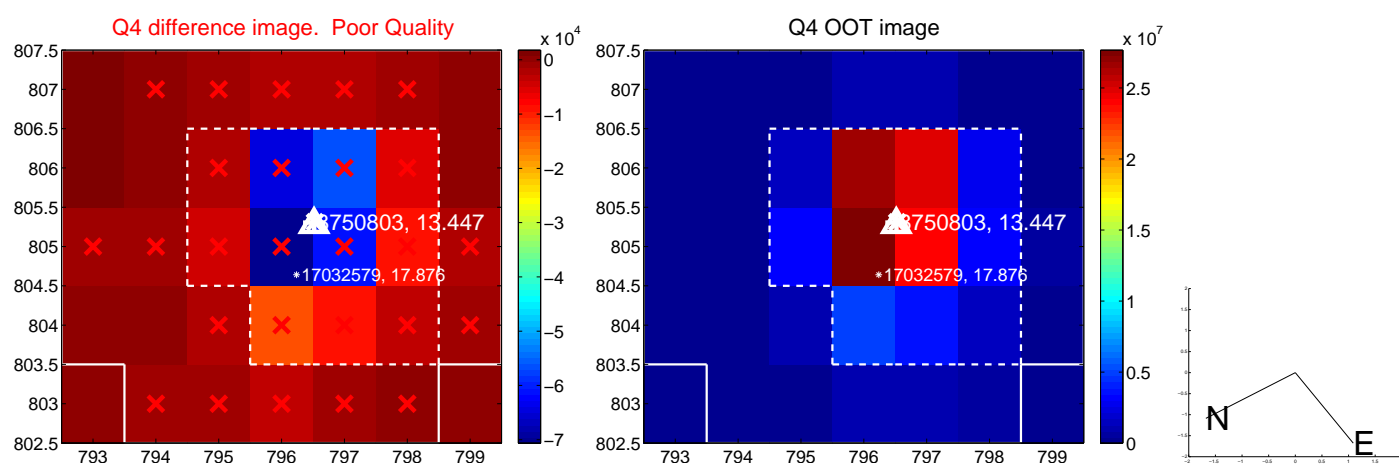
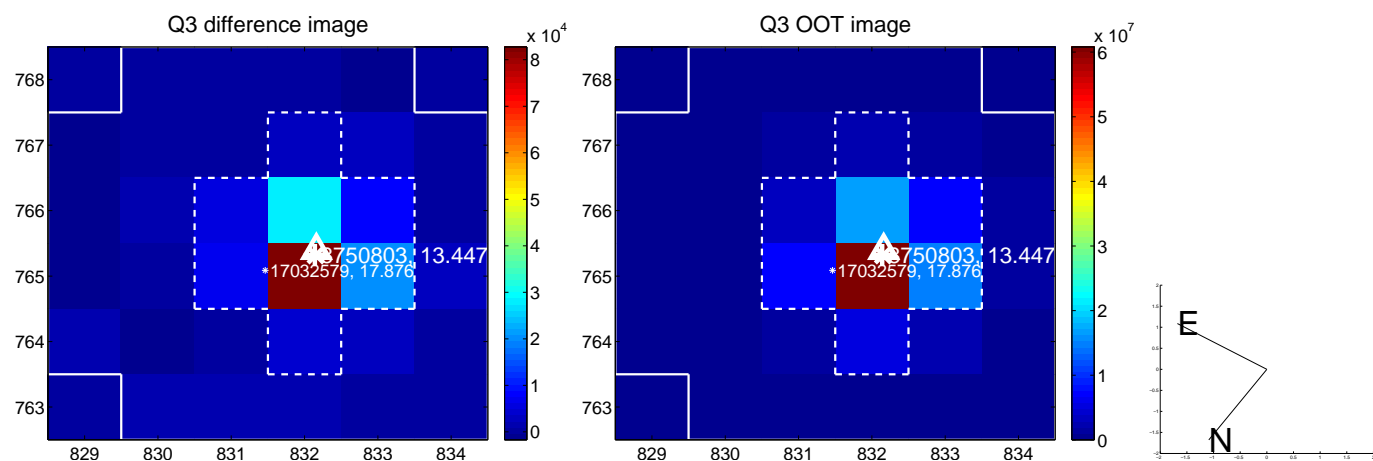
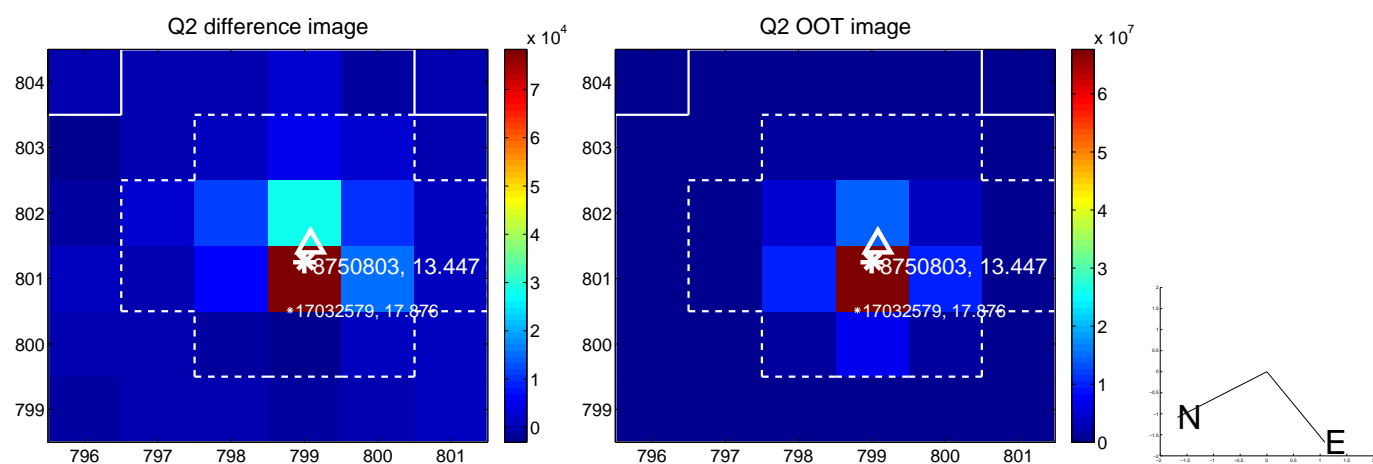
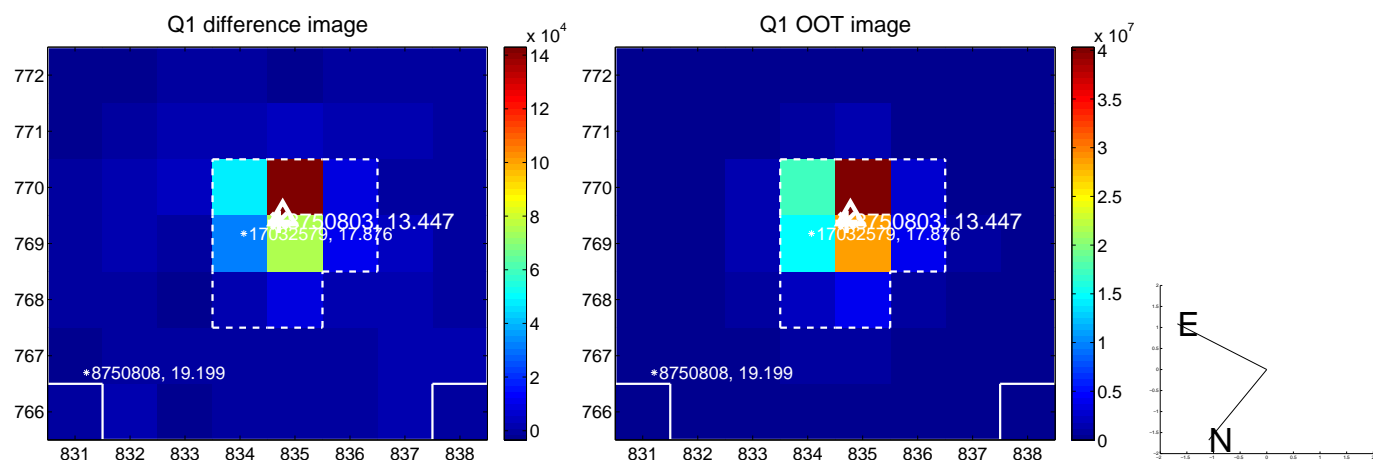
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.053 ± 0.094	0.56	0.051 ± 0.100	-0.014 ± 0.140
PRF-fit source offset from KIC position	0.068 ± 0.119	0.57	0.060 ± 0.101	0.030 ± 0.136
photometric centroid source offset	0.16 ± 0.32	0.49	-0.01 ± 0.33	0.16 ± 0.32

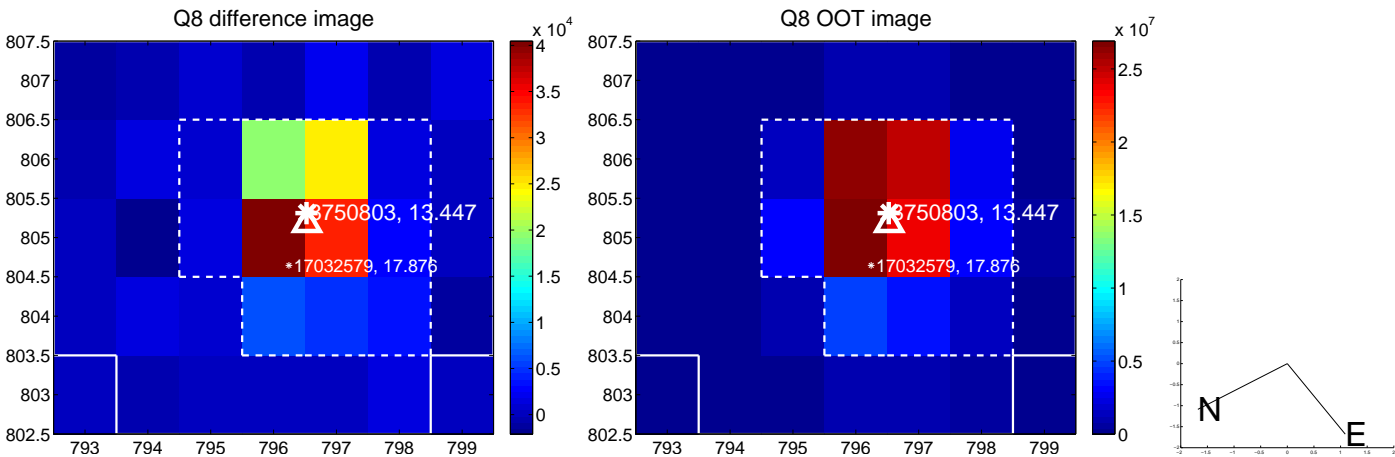
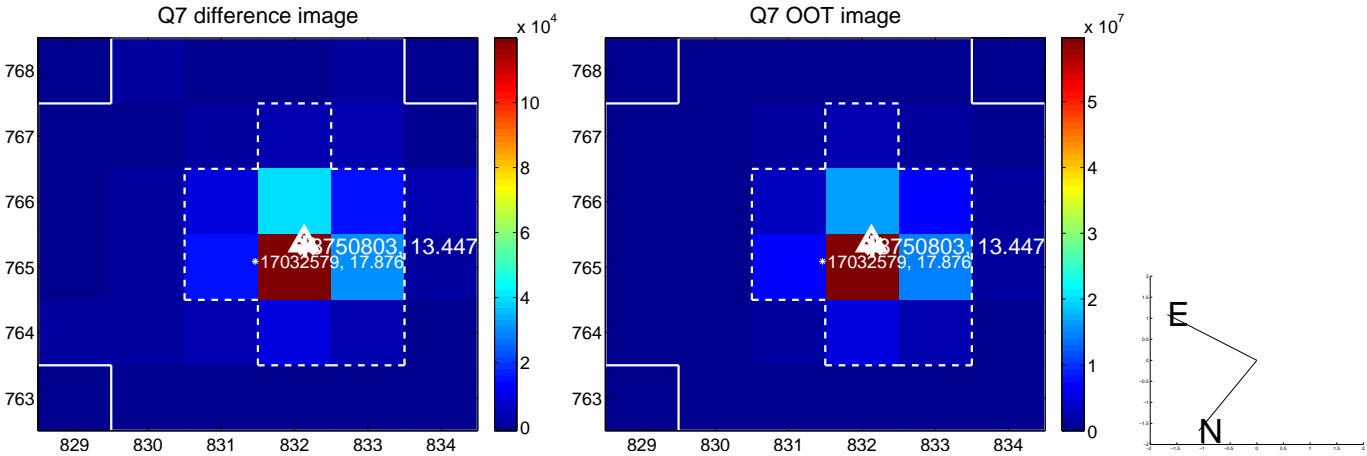
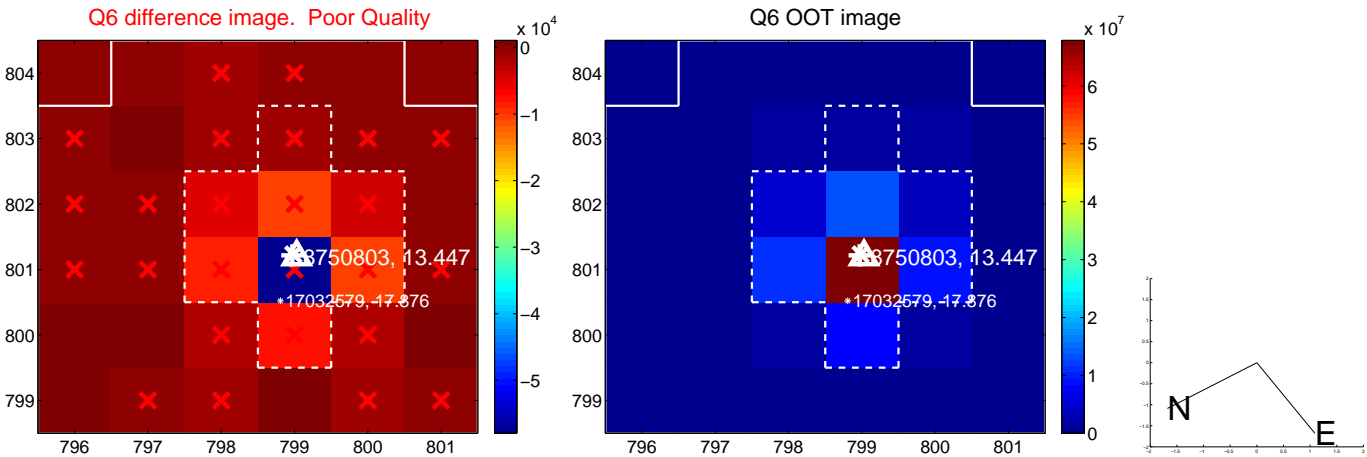
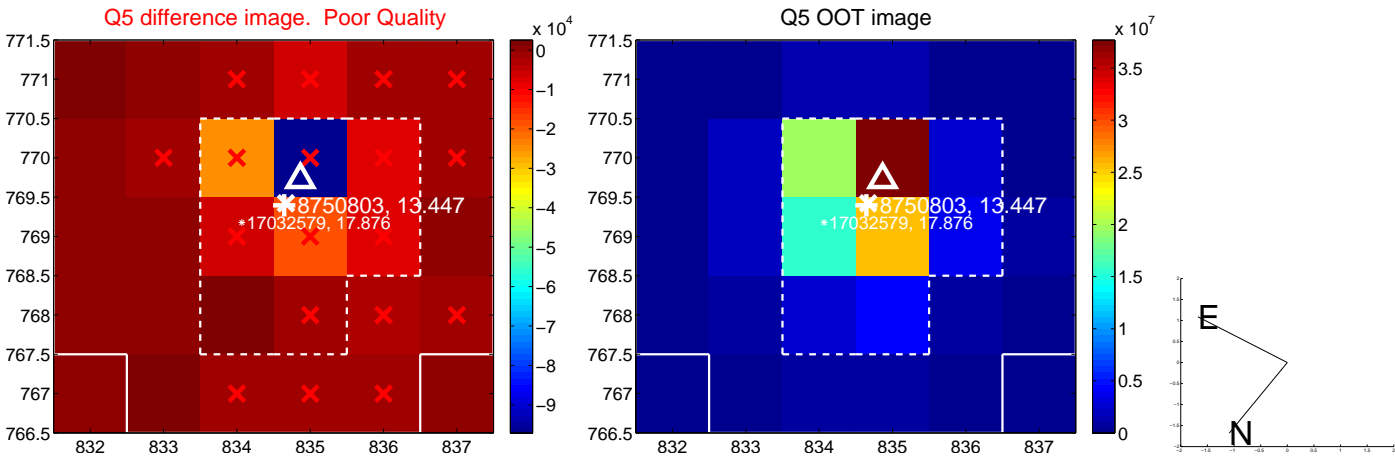


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

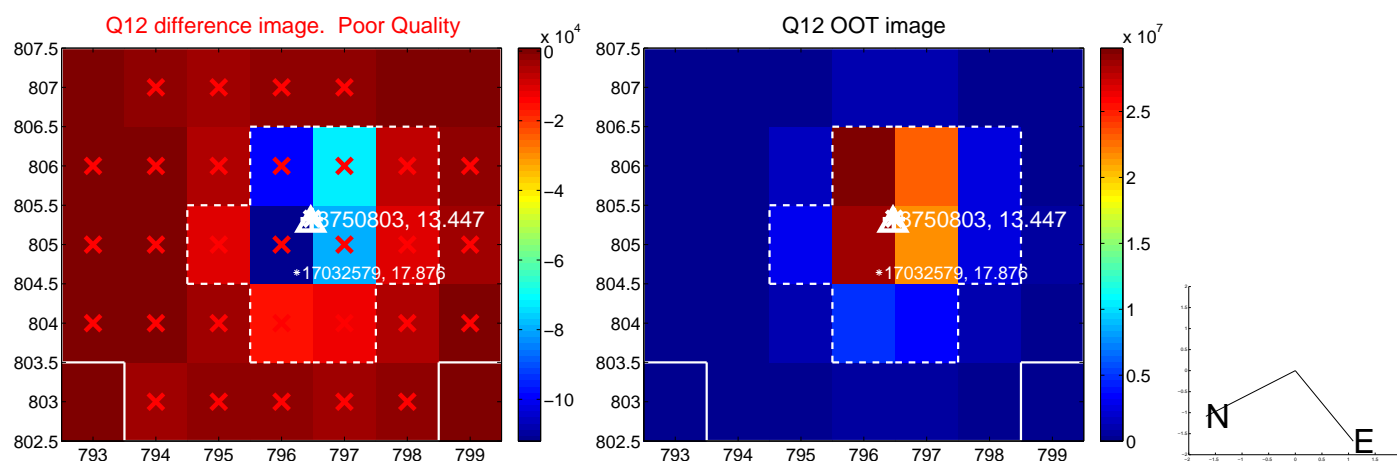
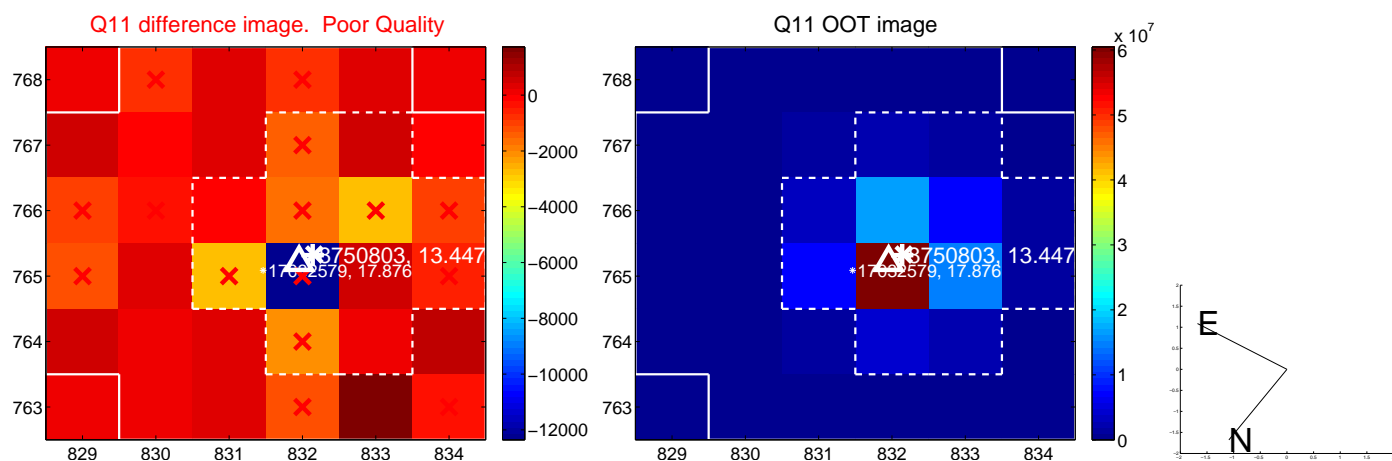
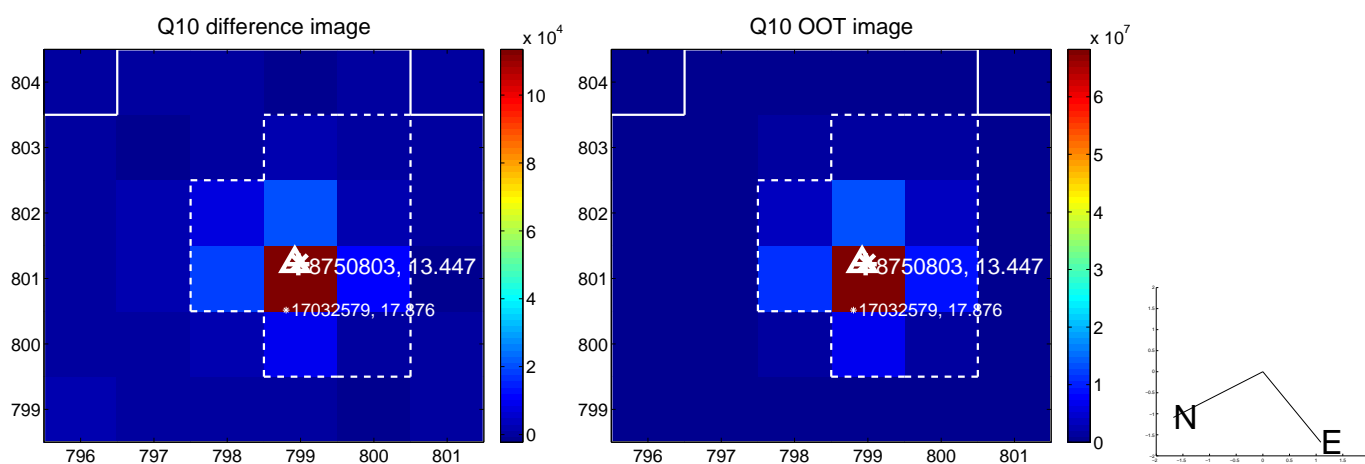
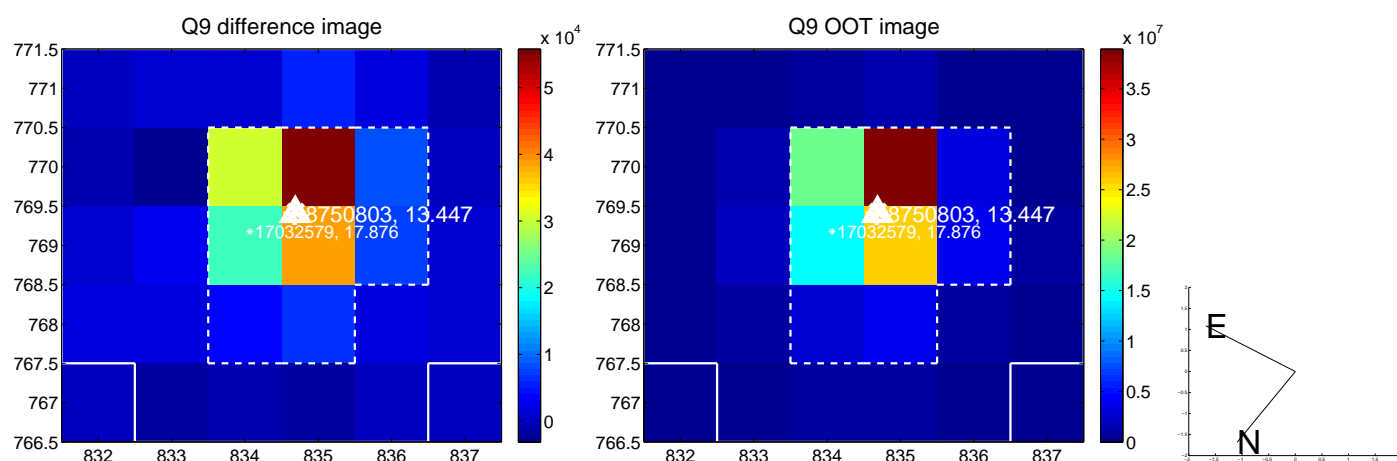
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



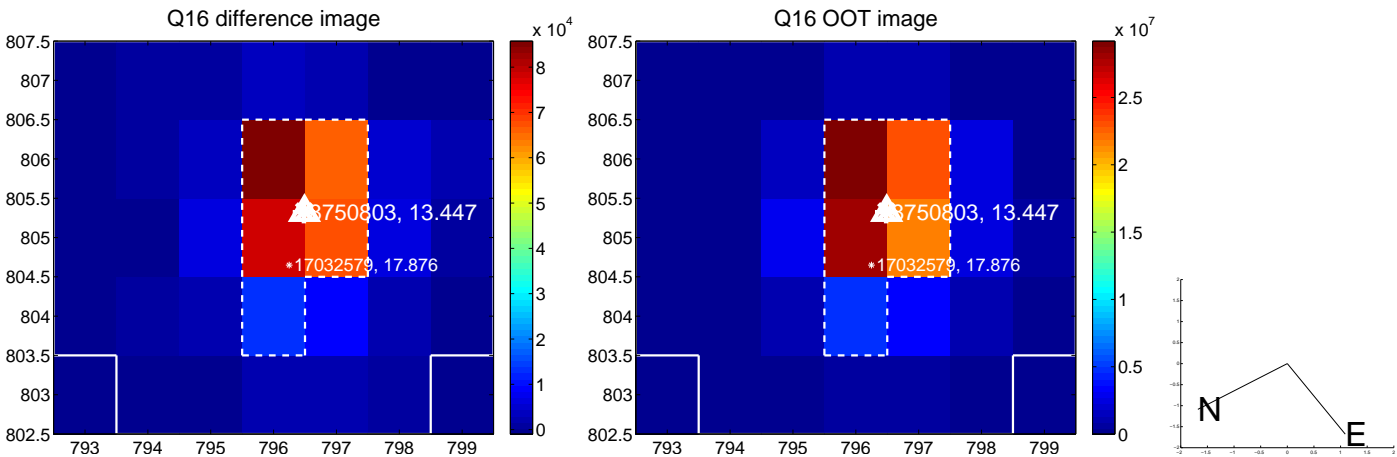
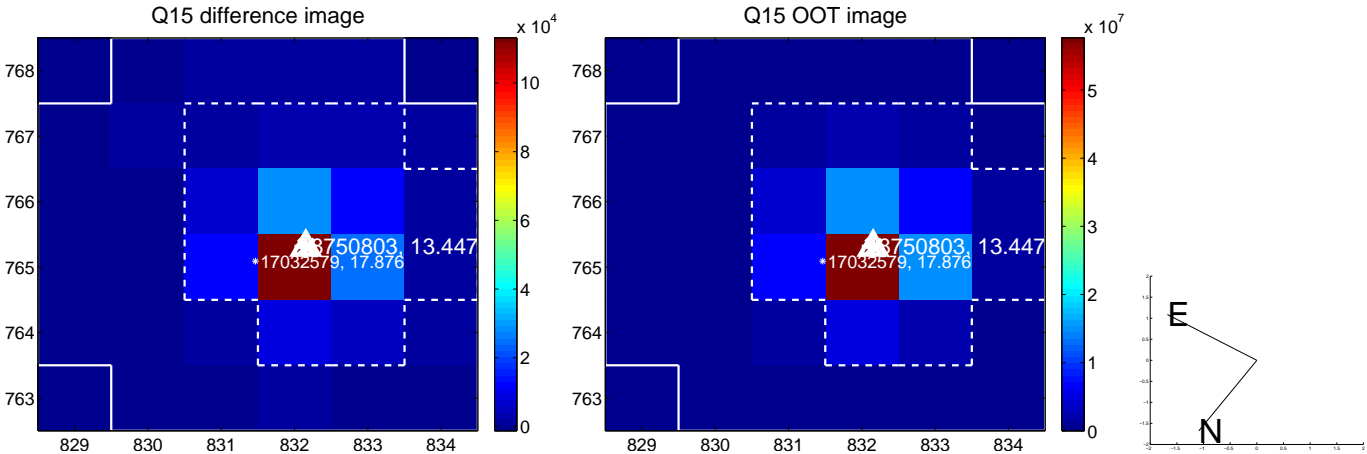
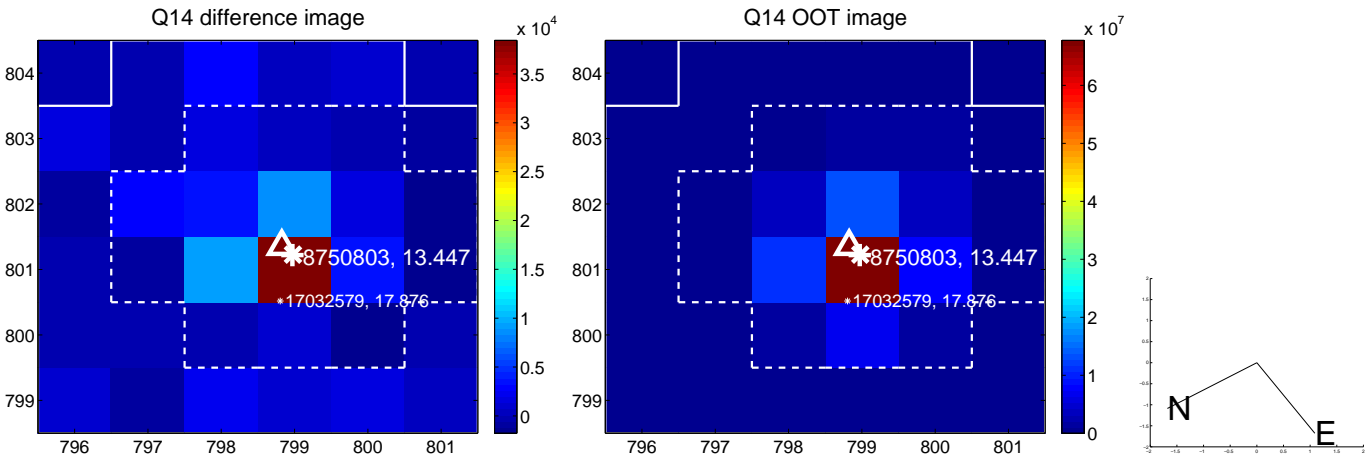
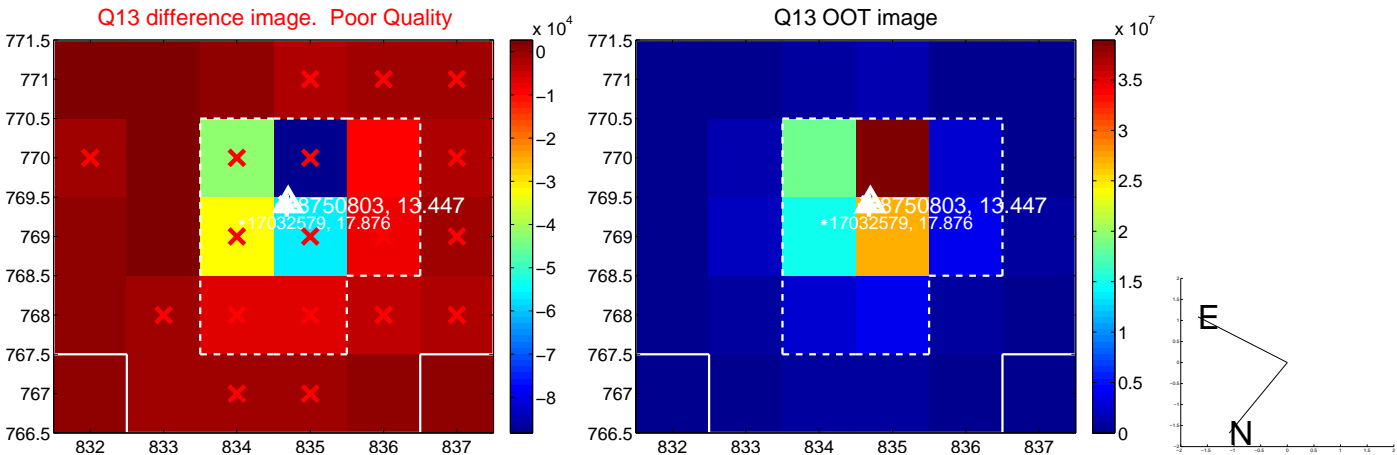
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



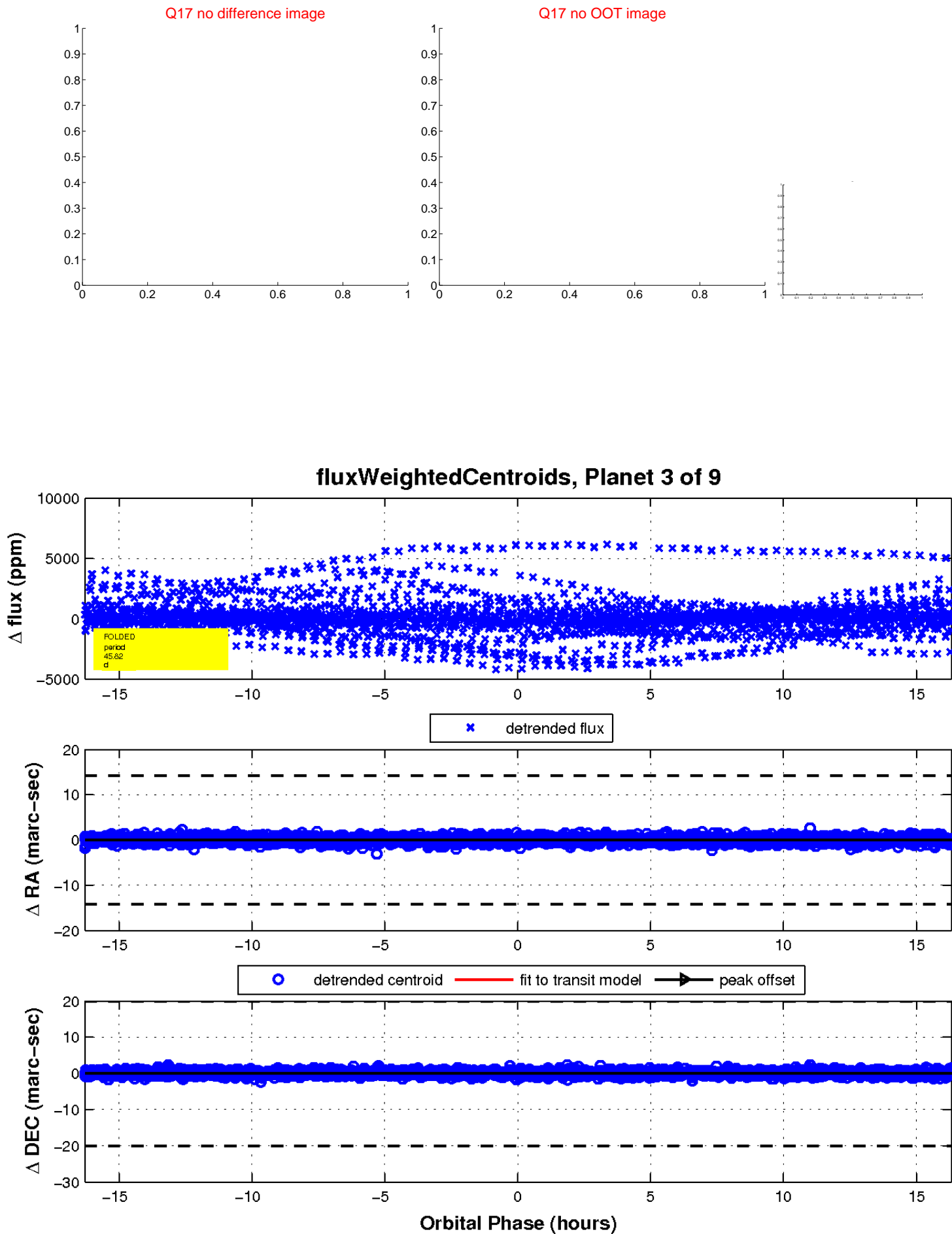
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

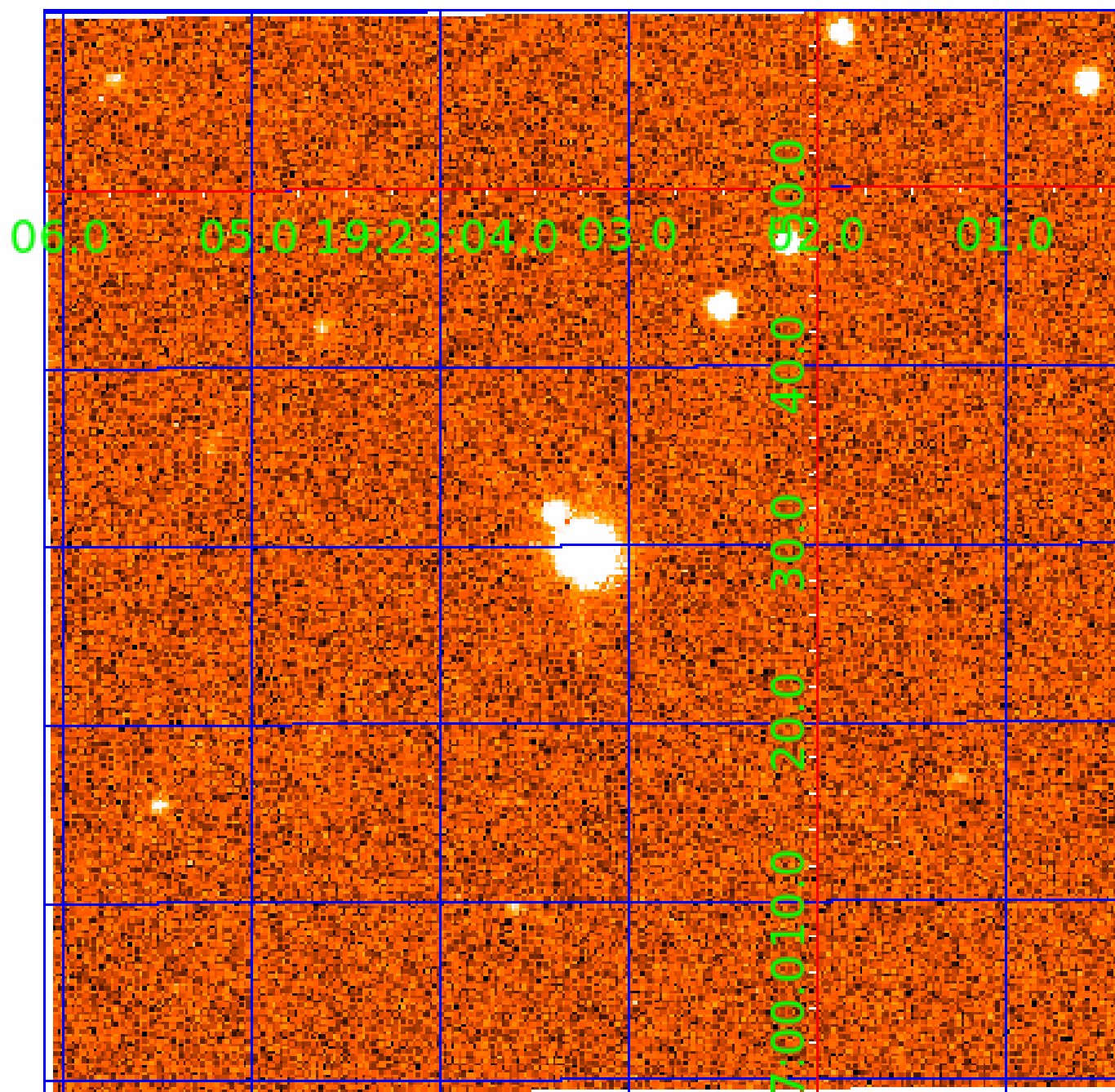


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

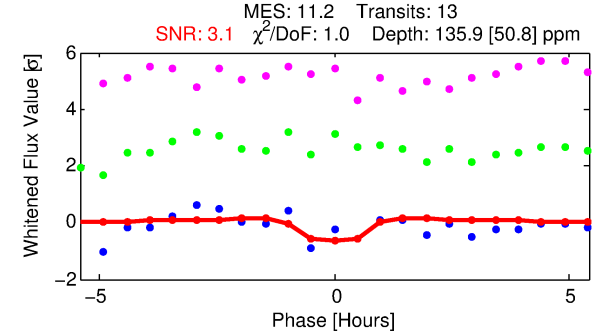
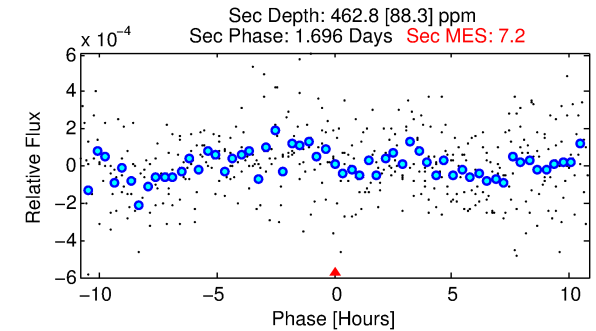
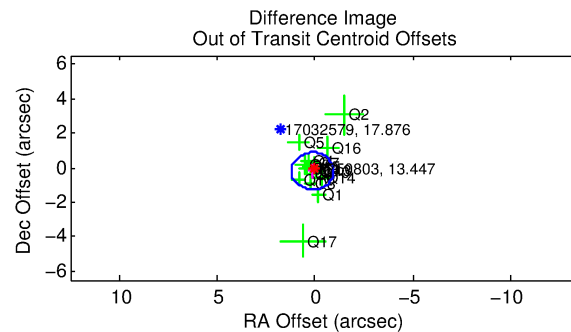
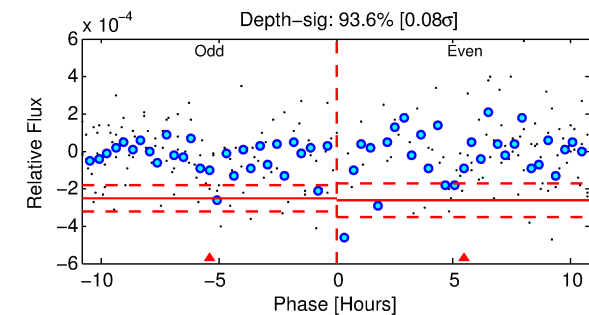
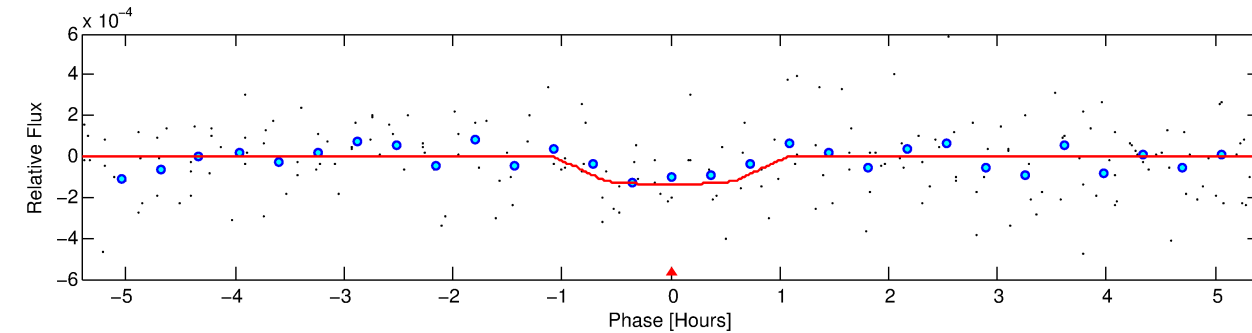
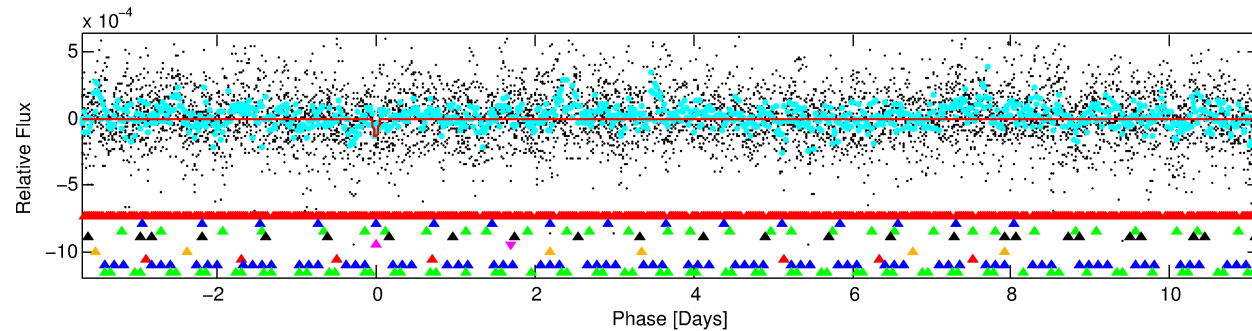
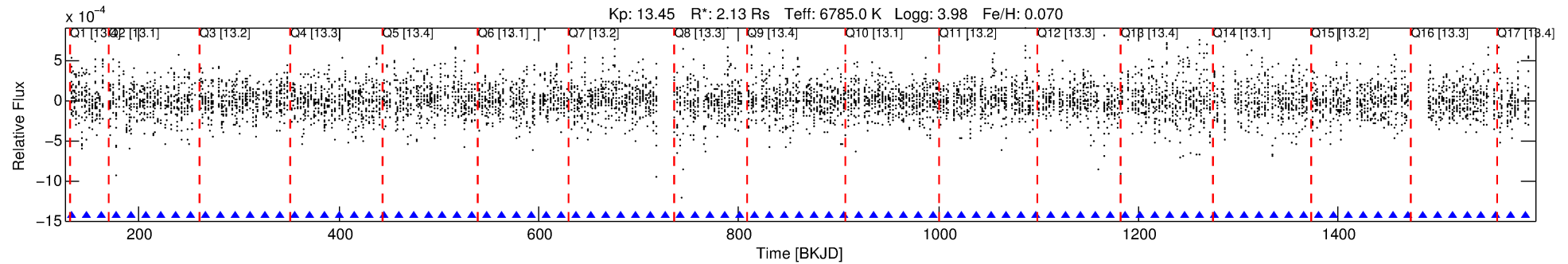
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-05

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 5 of 9 Period: 14.846 d



DV Fit Results:

Period = 14.84609 [0.00028] d
Epoch = 132.9988 [0.0165] BKJD
Rp/R* = 0.0123 [0.0222]
a/R* = 32.06 [340.49]
b = 0.87 [2.89]
Seff = 454.28 [221.66]
Teff = 1177 [144] K
Rp = 2.84 [5.23] Re
a = 0.1375 [0.0418] AU
Ag = 595.42 [2174.21] [0.27 σ]
Teffp = 8991 [8151] K [0.96 σ]

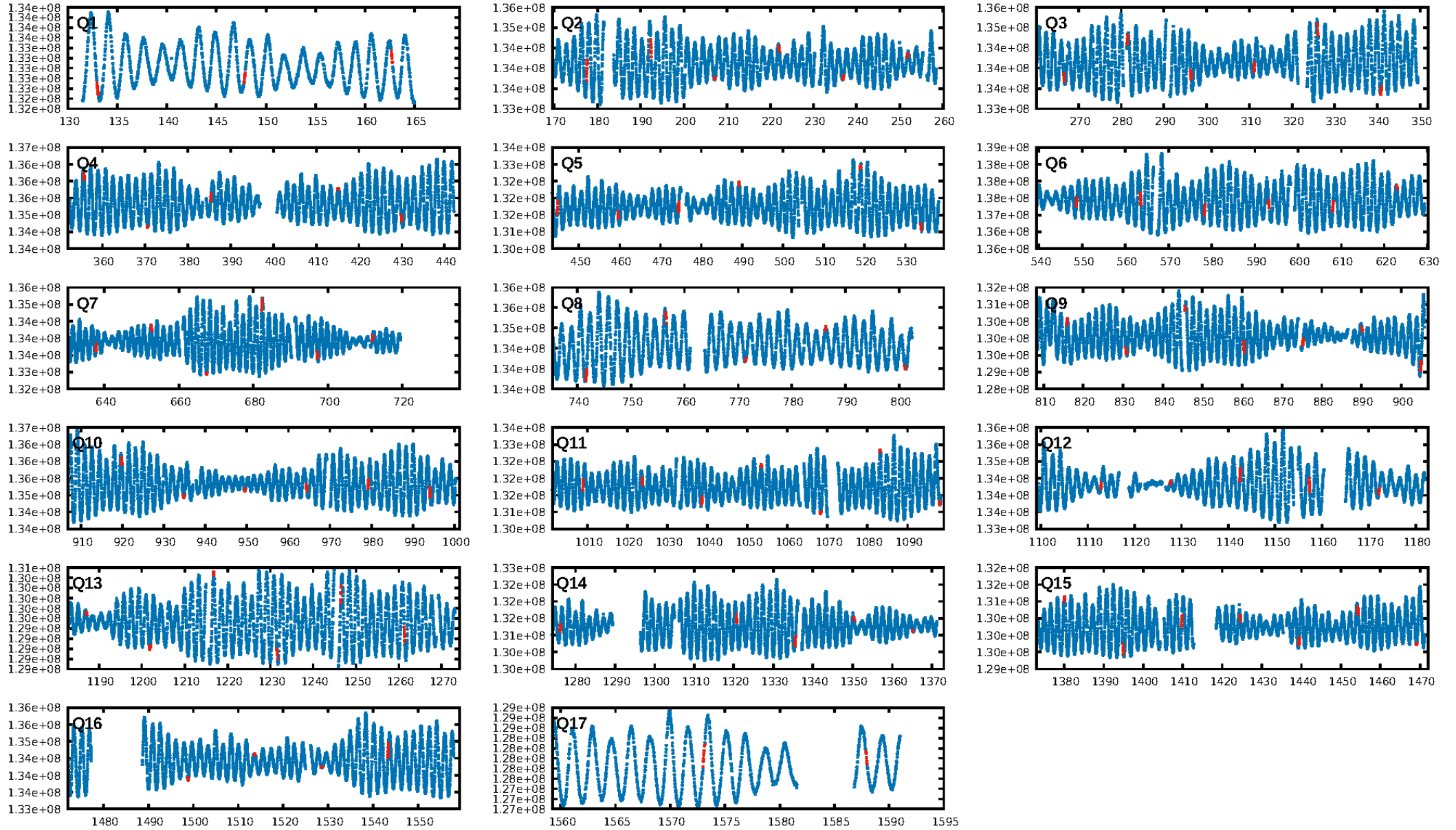
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [15.77 σ]
LongPeriod-sig: 100.0% [41.05 σ]
ModelChiSquare2-sig: 26.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [13/13]
GhostDiagnostic-chr: 2.87
Centroid-sig: 56.5%
Centroid-so: 0.608 arcsec [0.72 σ]
OotOffset-rm: 0.233 arcsec [0.65 σ]
KicOffset-rm: 0.191 arcsec [0.64 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.71 [12/17]
DiffImageOverlap-fno: 0.94 [16/17]

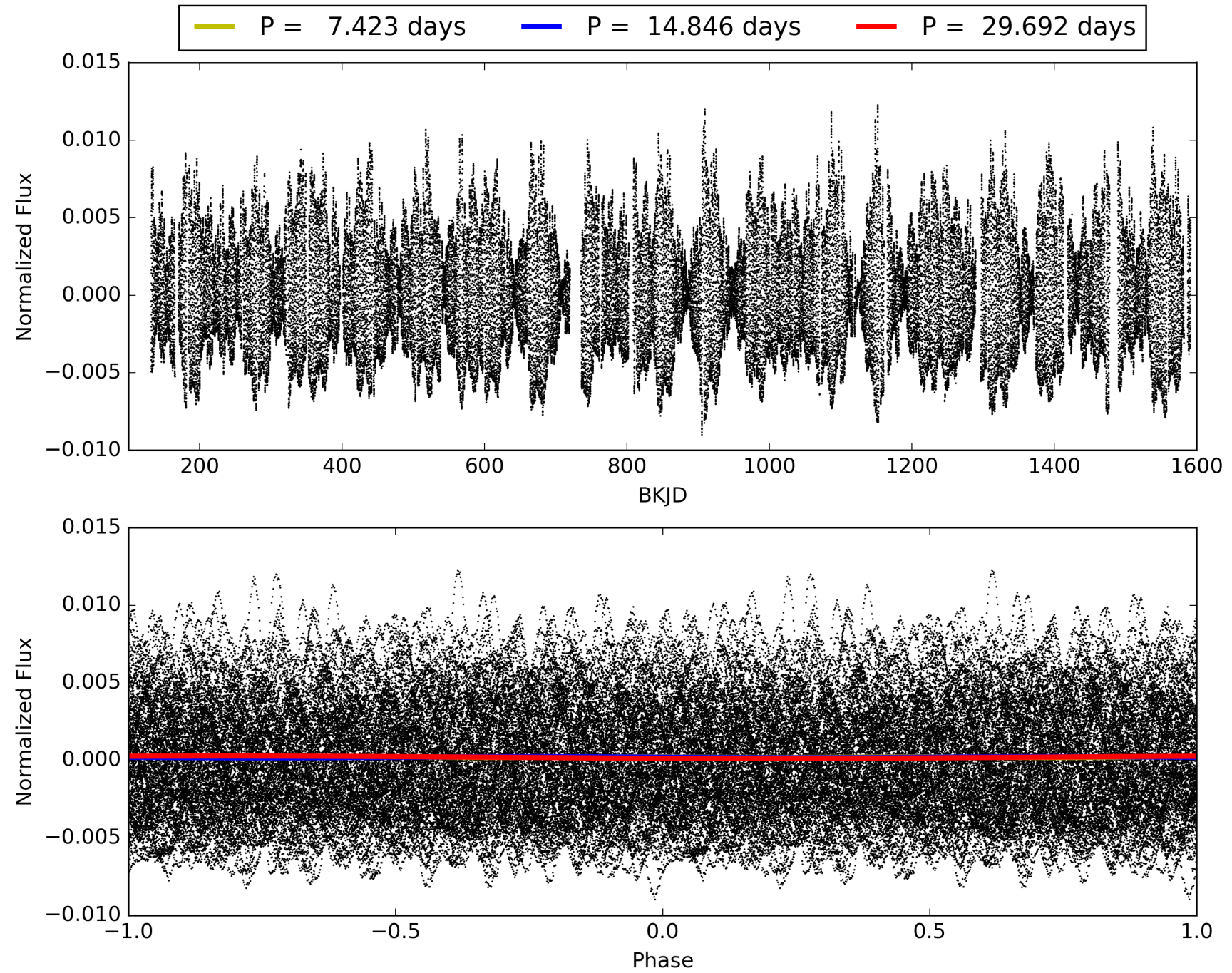
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:33:06 Z

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

TCE 008750803-05, PDC Light Curves

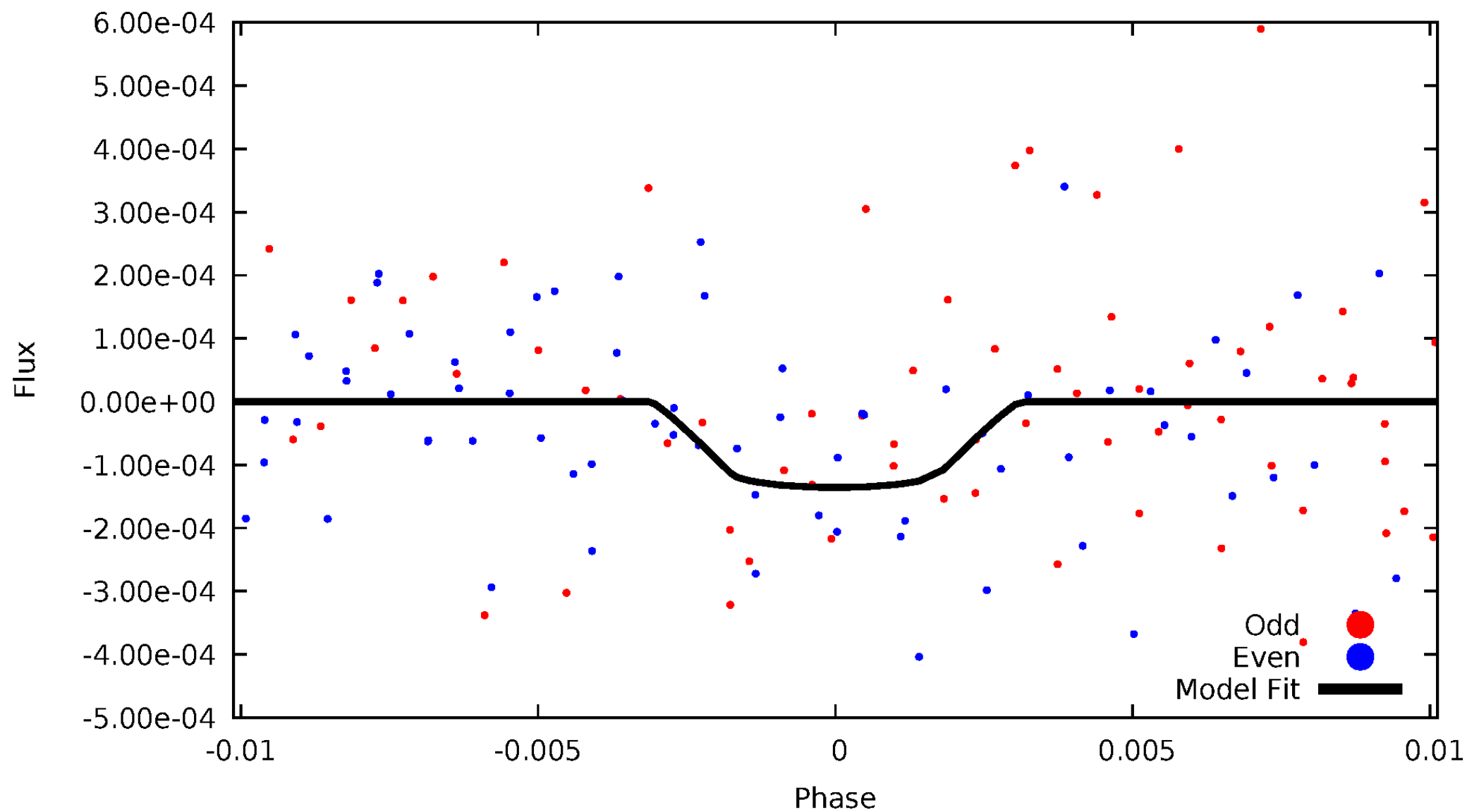


TCE 008750803-05



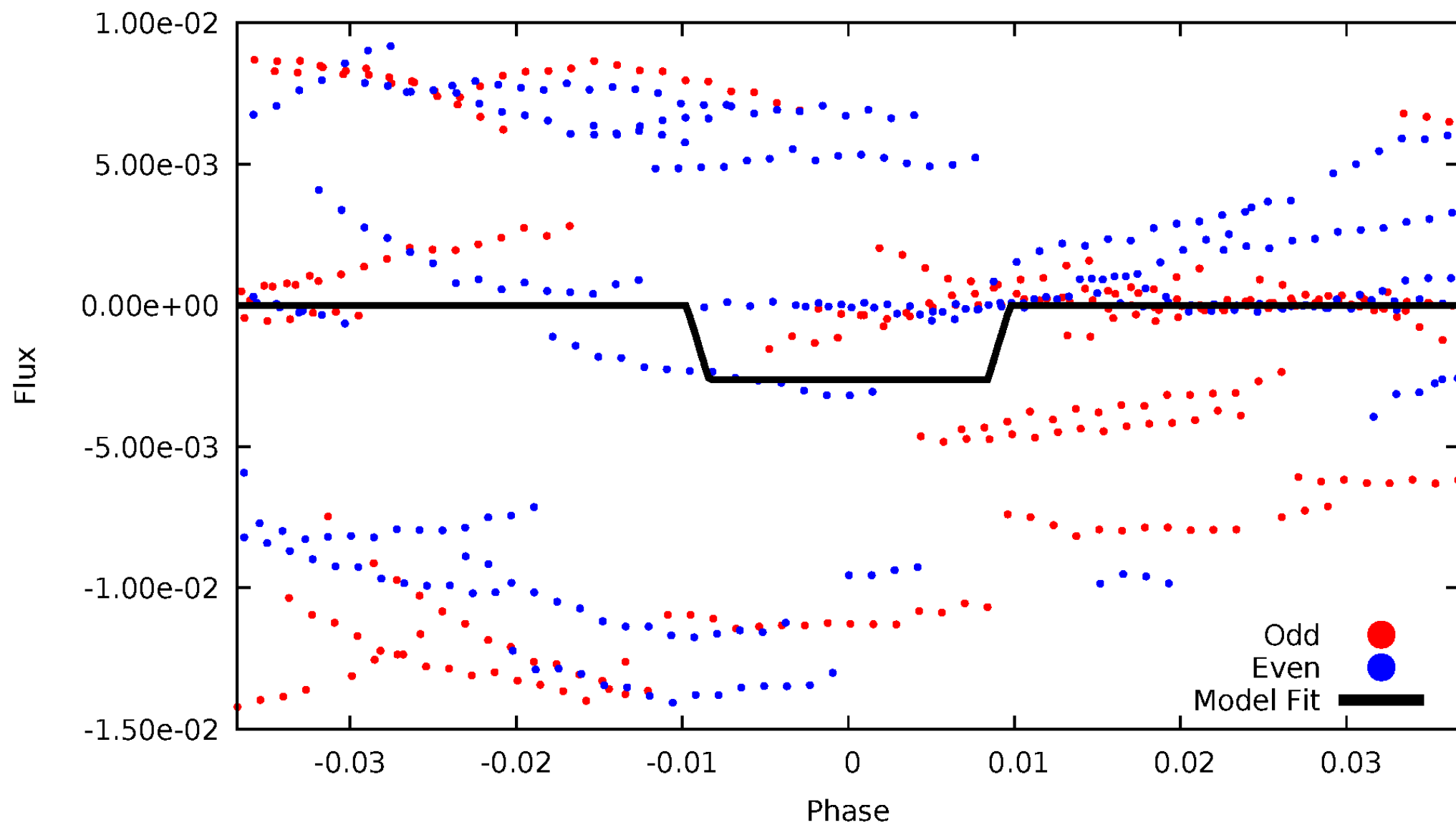
DV Odd/Even

TCE 008750803-05



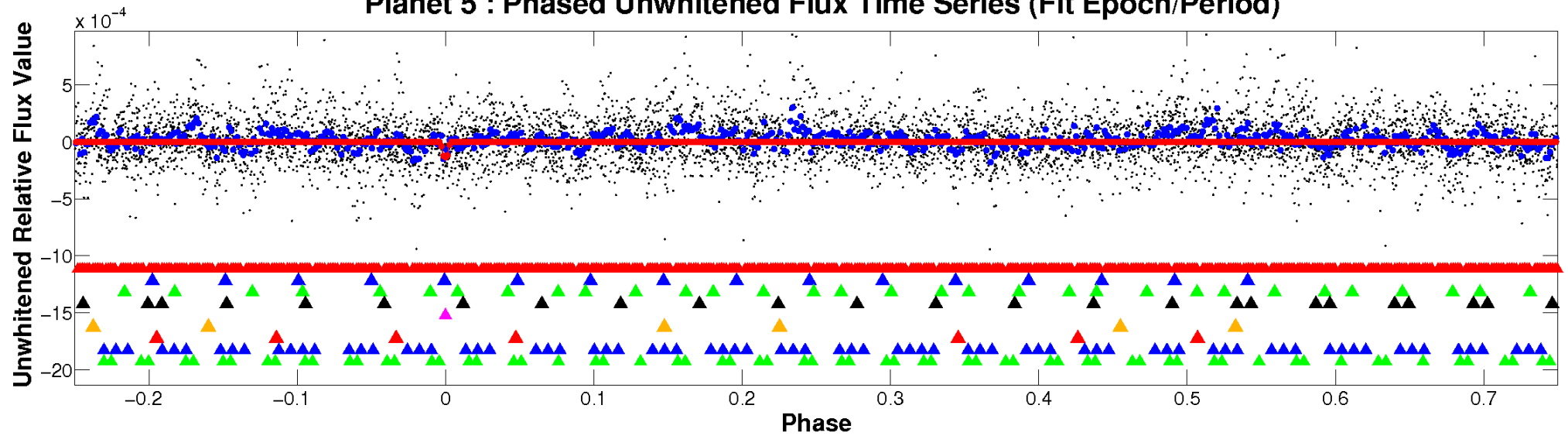
ALT Odd/Even

TCE 008750803-05

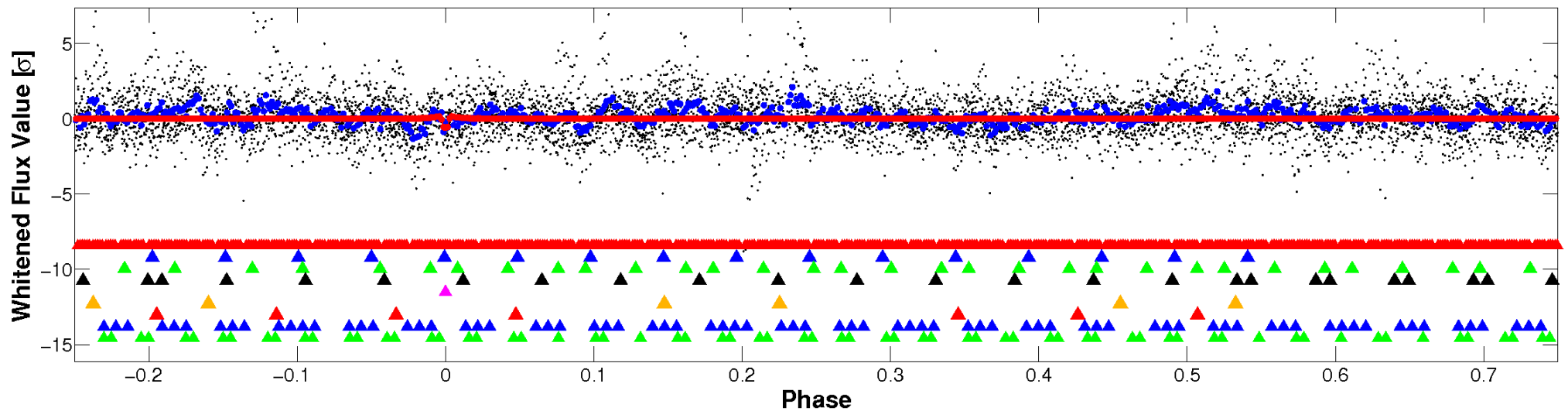


Non-Whitened Vs. Whitened Light Curve

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

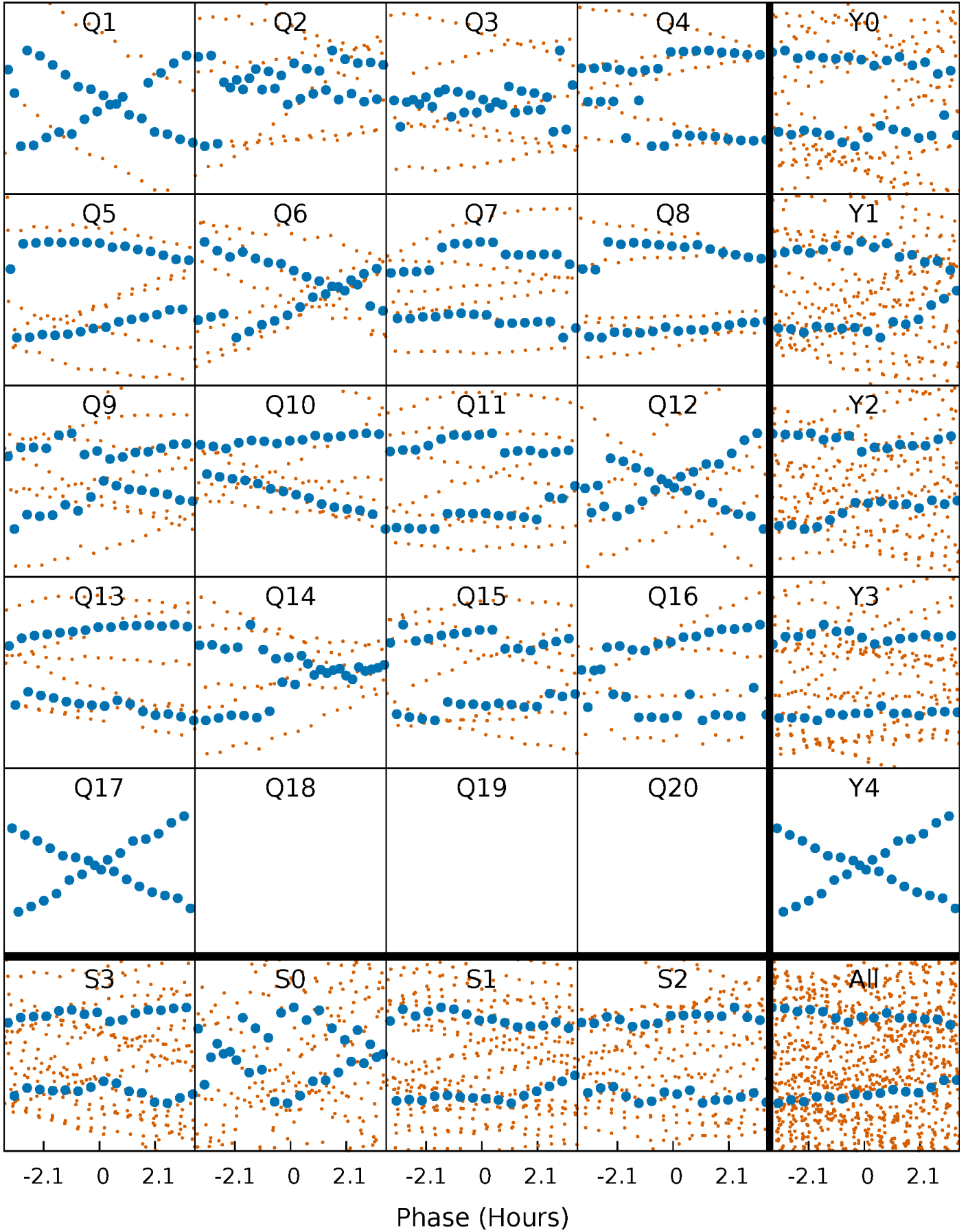


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



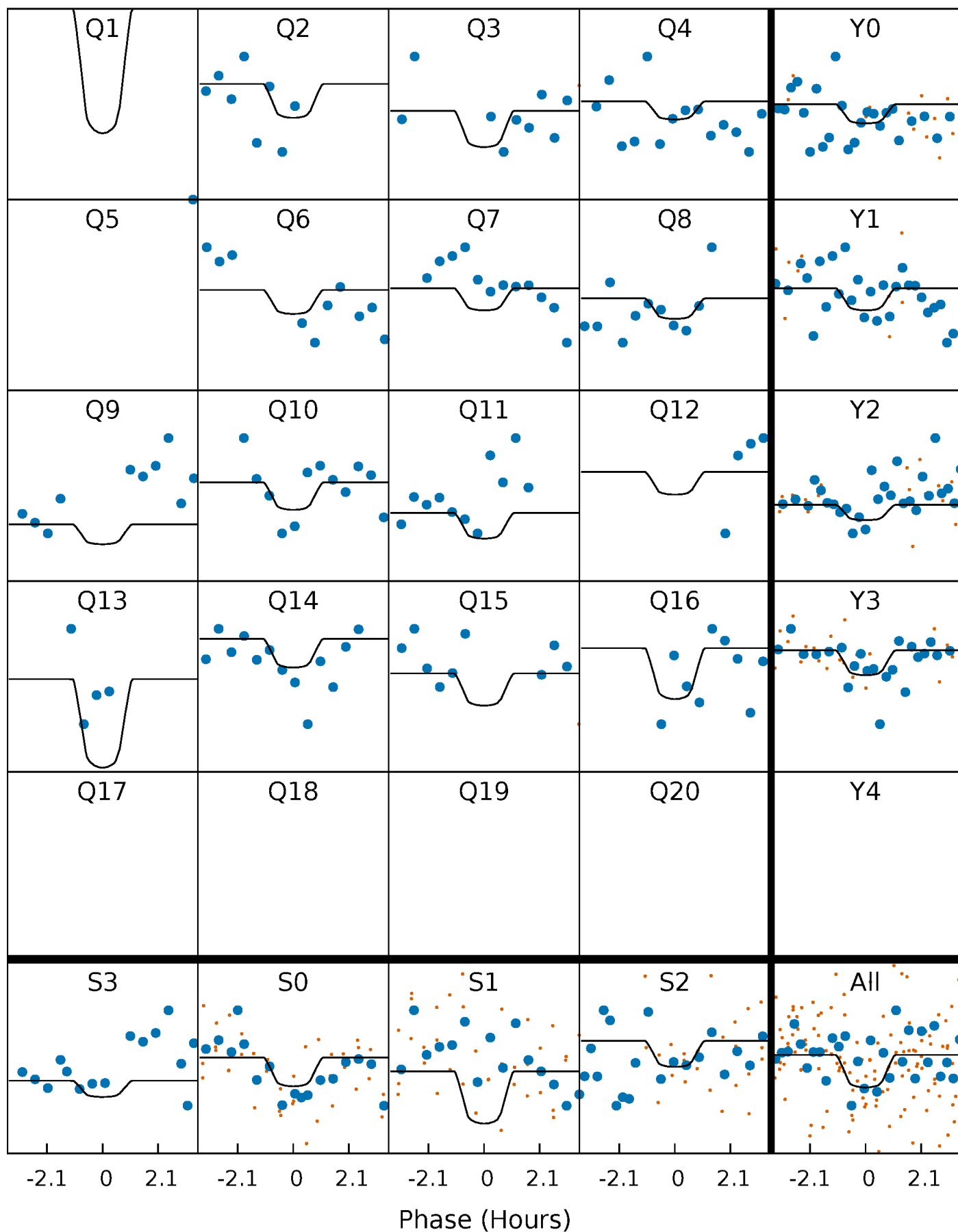
PDC Quarter-Phased Transit Curves

TCE 008750803-05 $P = 14.846085$ Days $T_0 = 132.998814$ (BKJD)



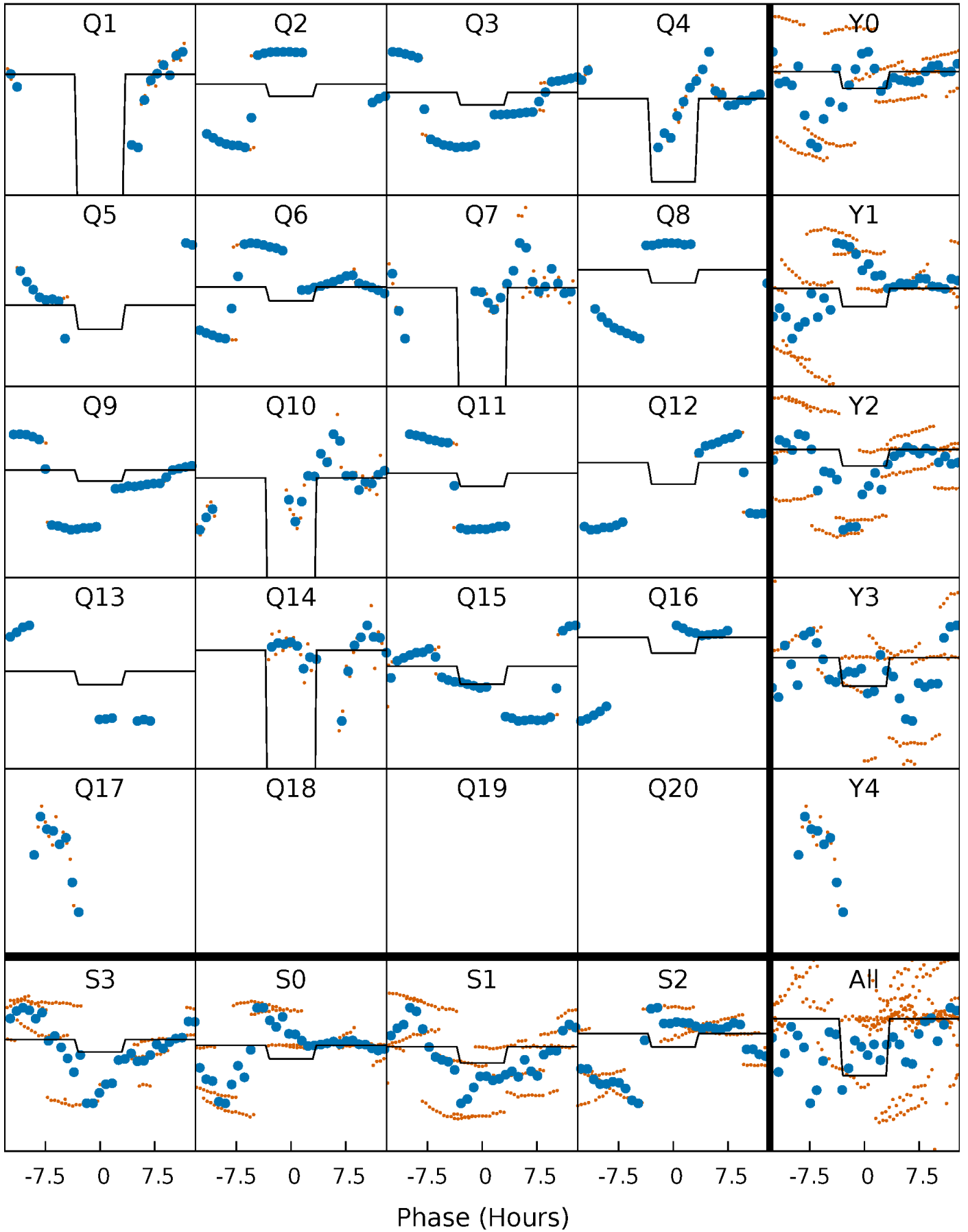
DV Quarter-Phased Transit Curves

TCE 008750803-05 P= 14.846085 Days $T_0=132.998814$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

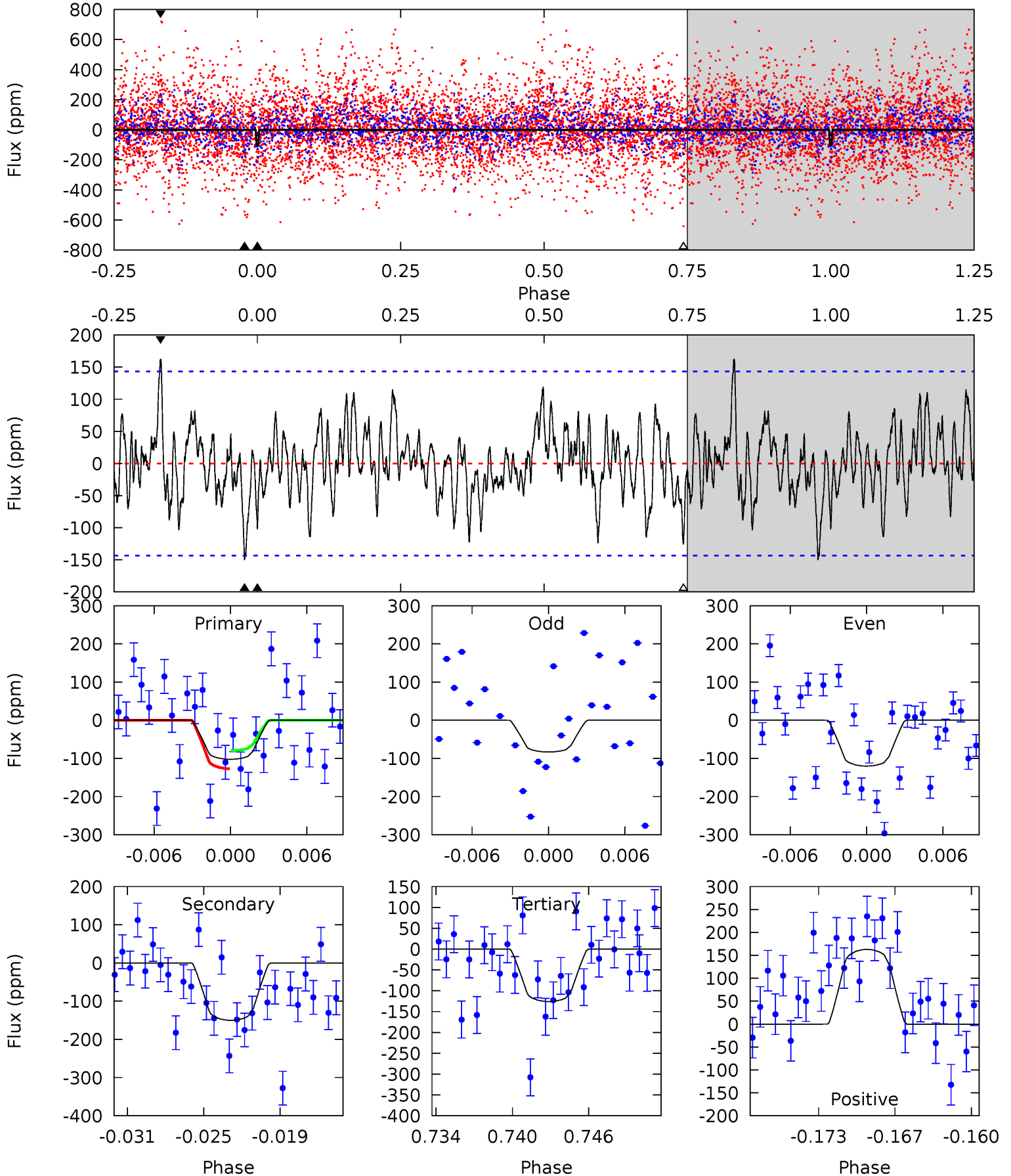
TCE 008750803-05 $P = 14.846132$ Days $T_0 = 132.940273$ (BKJD)



DV Model-Shift Uniqueness Test

008750803-05, $P = 14.846085$ Days, $E = 118.152729$ Days

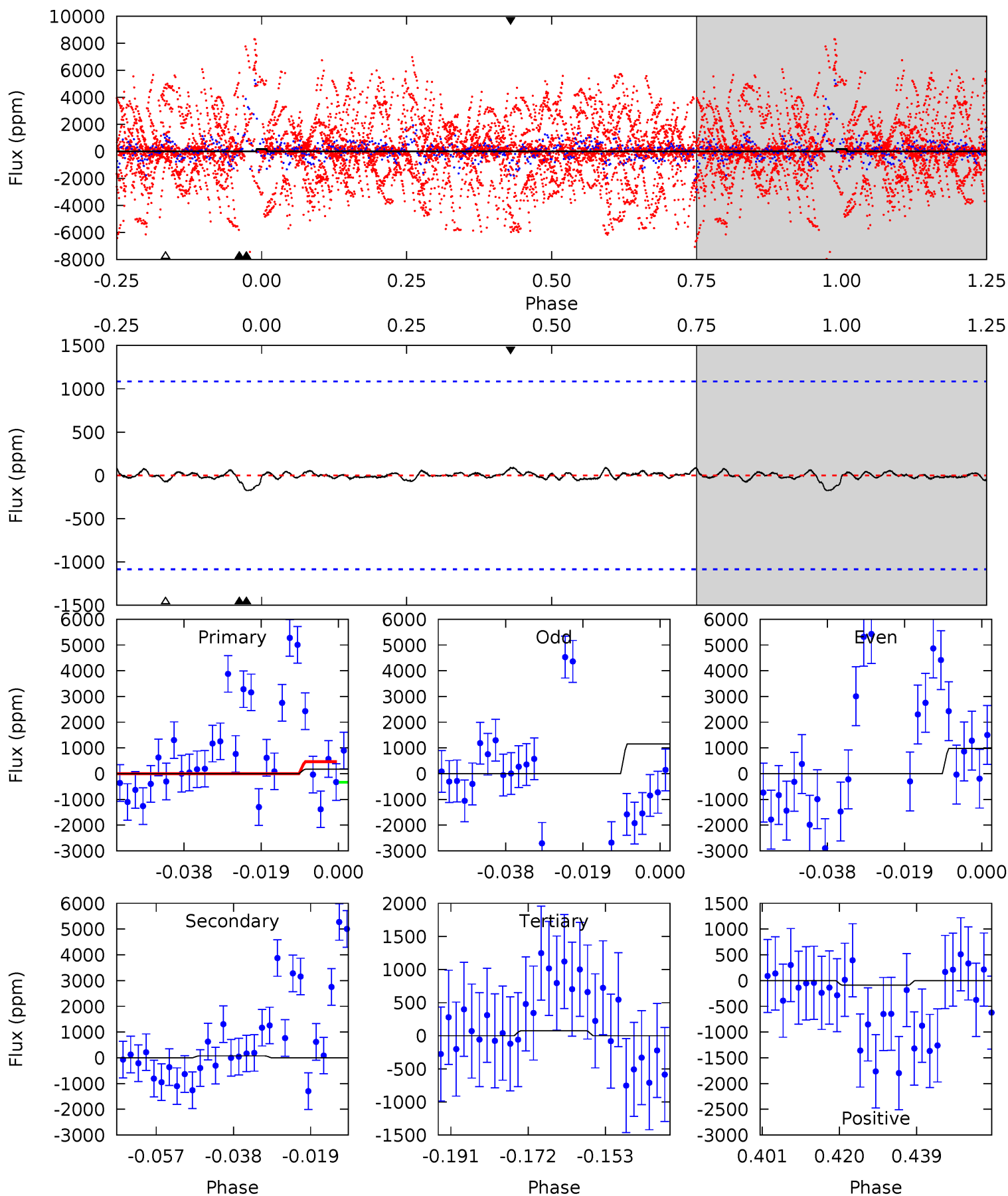
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.65	5.37	4.50	5.82	5.12	2.74	1.63	-0.84	-2.17	0.87	-0.46	0.66	0.82	0.52	0.86



Alt Model-Shift Uniqueness Test

008750803-05, P = 14.846132 Days, E = 118.094141 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.79	0.34	0.33	0.41	4.90	2.34	0.14	0.46	0.38	0.01	-0.07	0.39	5.19	0.34	0



Stellar Parameters For KIC 008750803

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-150 ± 28	$4.34^{+4.32}_{-2.97}$	1627^{+124}_{-143}	5365^{+5095}_{-1239}	82^{+712}_{-62}
Alt.	-75 ± 221	$11.42^{+6.36}_{-5.27}$	1634^{+135}_{-153}	3159^{+1220}_{-6908}	$4.306^{+29.052}_{-16.548}$

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 $A_{obs} \gg 1.0$

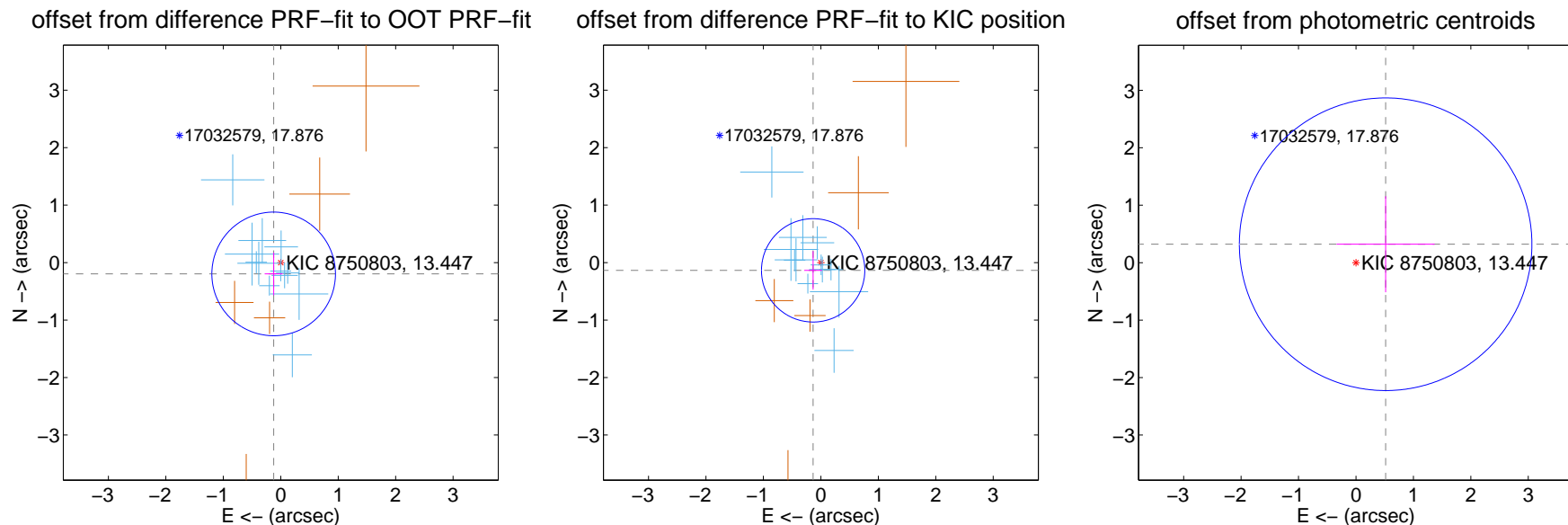
DV Centroid Data

Supplemental centroid analysis for 008750803-05. Kepler magnitude: 13.45. Transit SNR 3.15

There are 12 quarters with good PRF difference image offsets

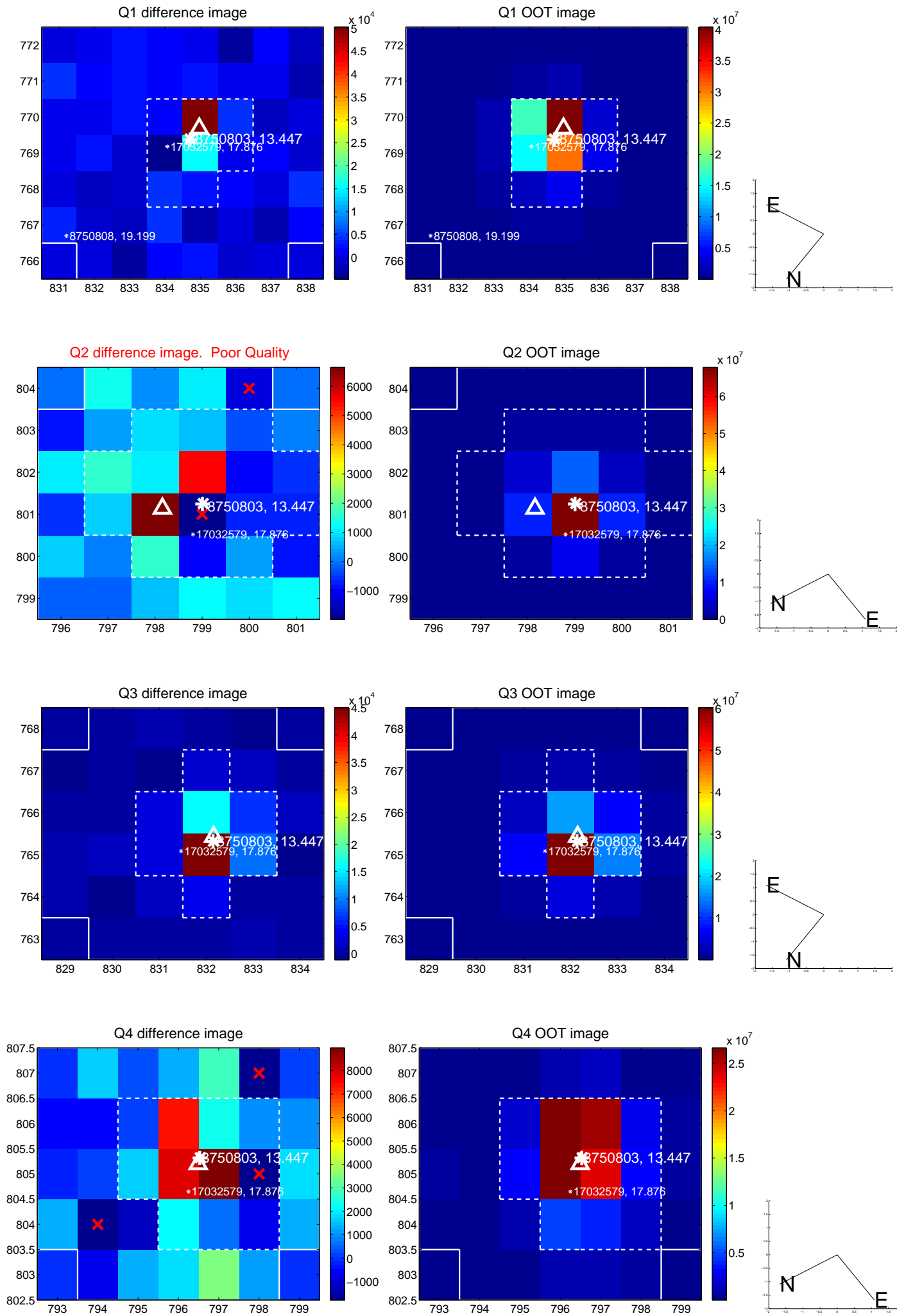
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.233 ± 0.359	0.65	0.124 ± 0.156	-0.197 ± 0.371
PRF-fit source offset from KIC position	0.191 ± 0.300	0.64	0.135 ± 0.155	-0.135 ± 0.334
photometric centroid source offset	0.61 ± 0.85	0.72	-0.52 ± 0.85	0.32 ± 0.84

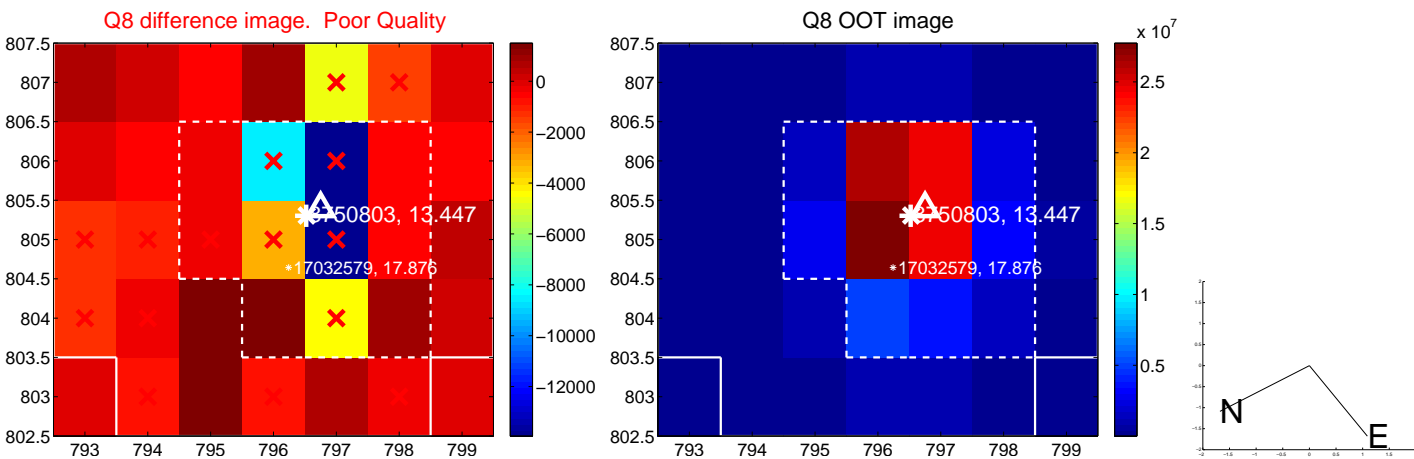
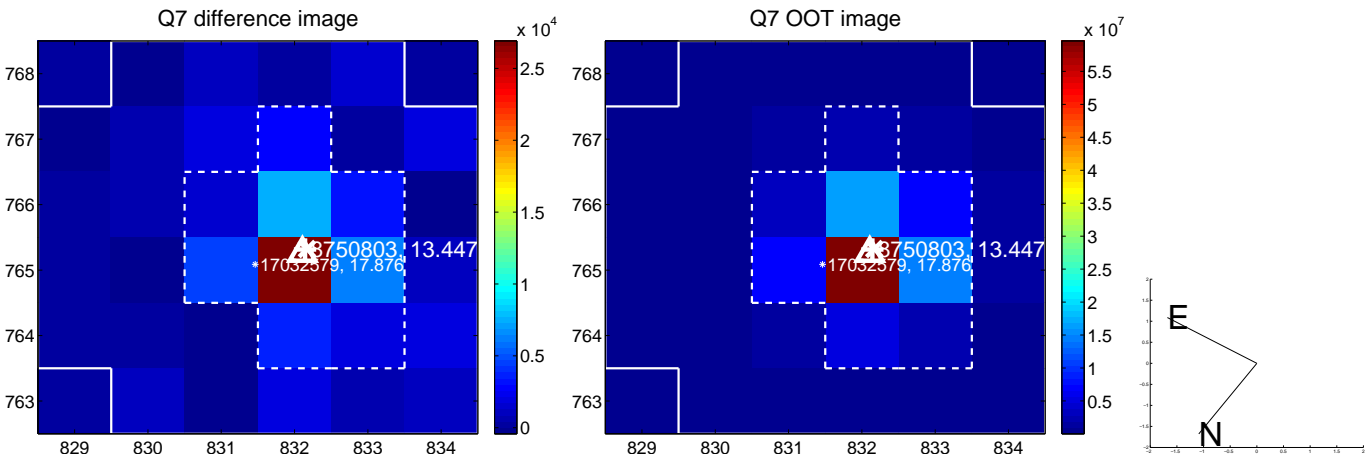
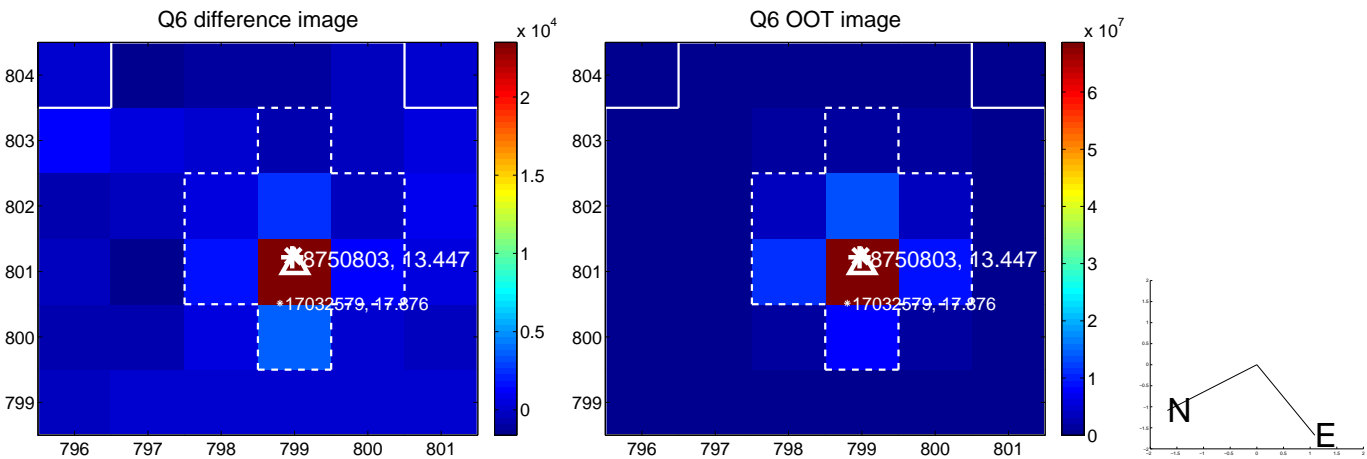
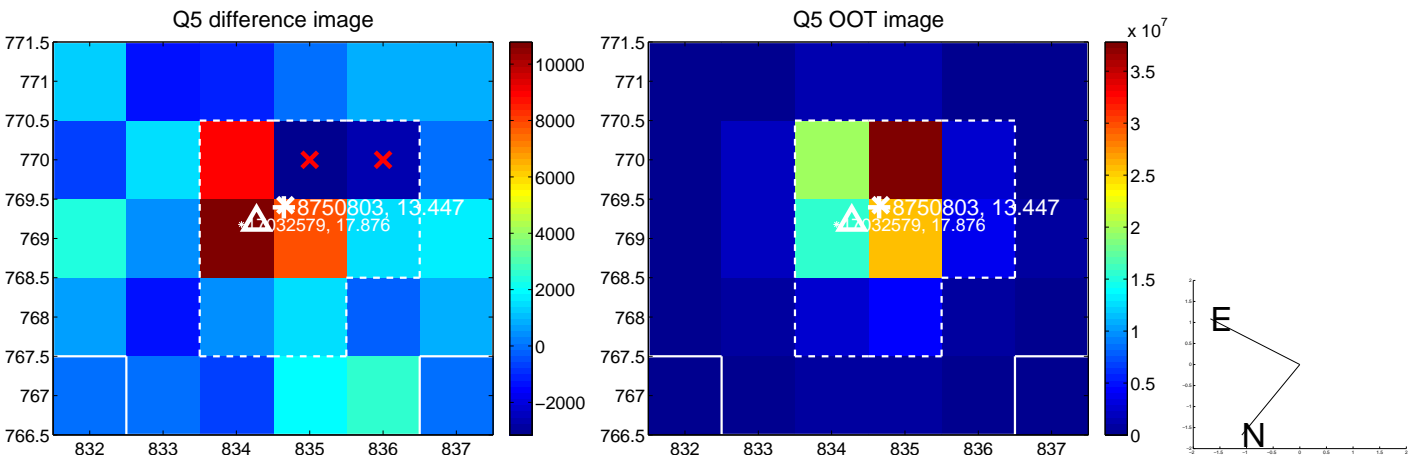


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

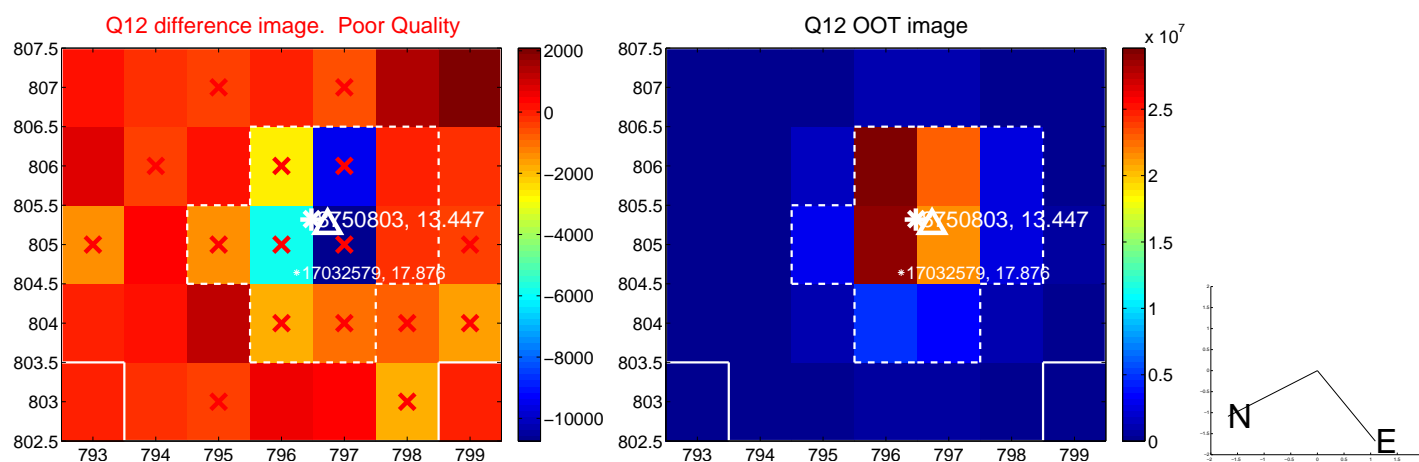
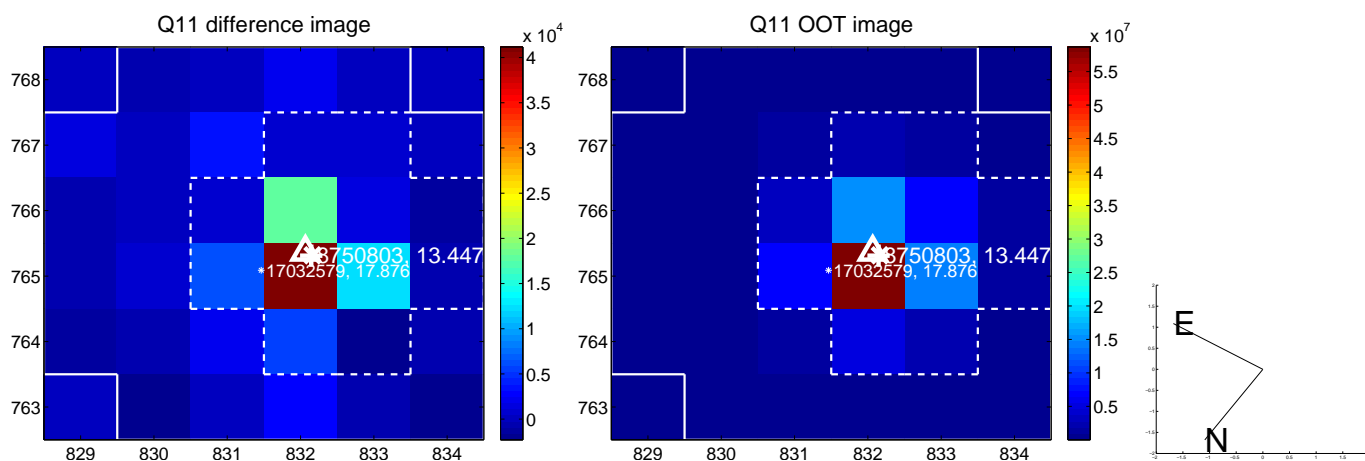
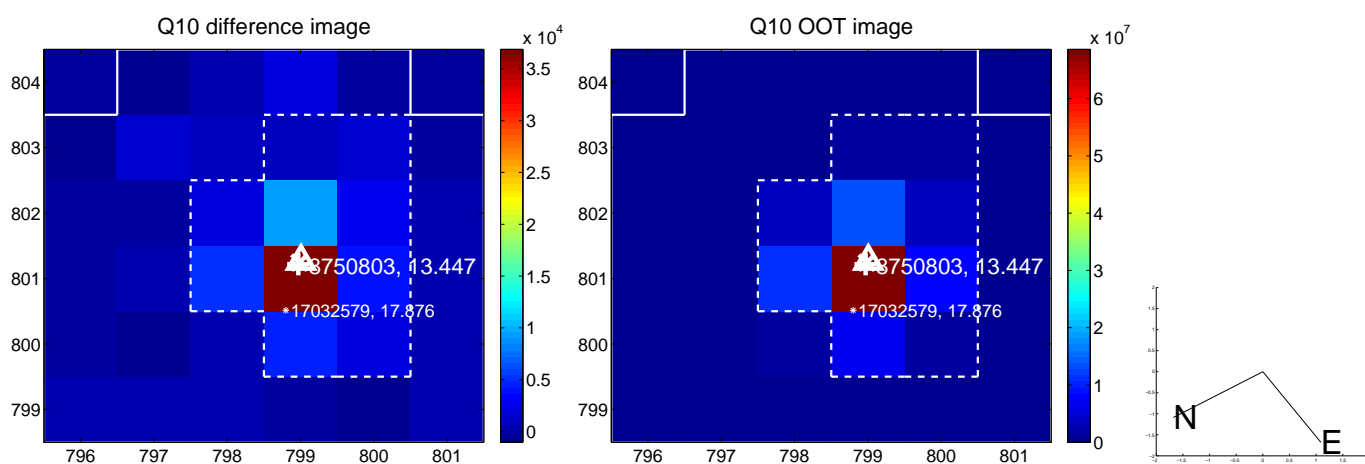
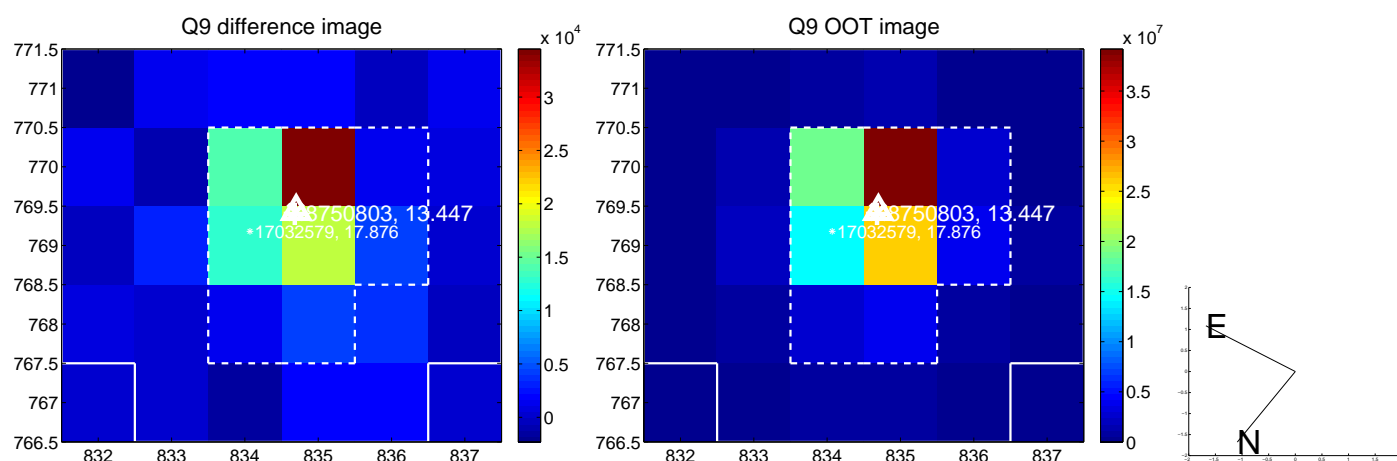
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



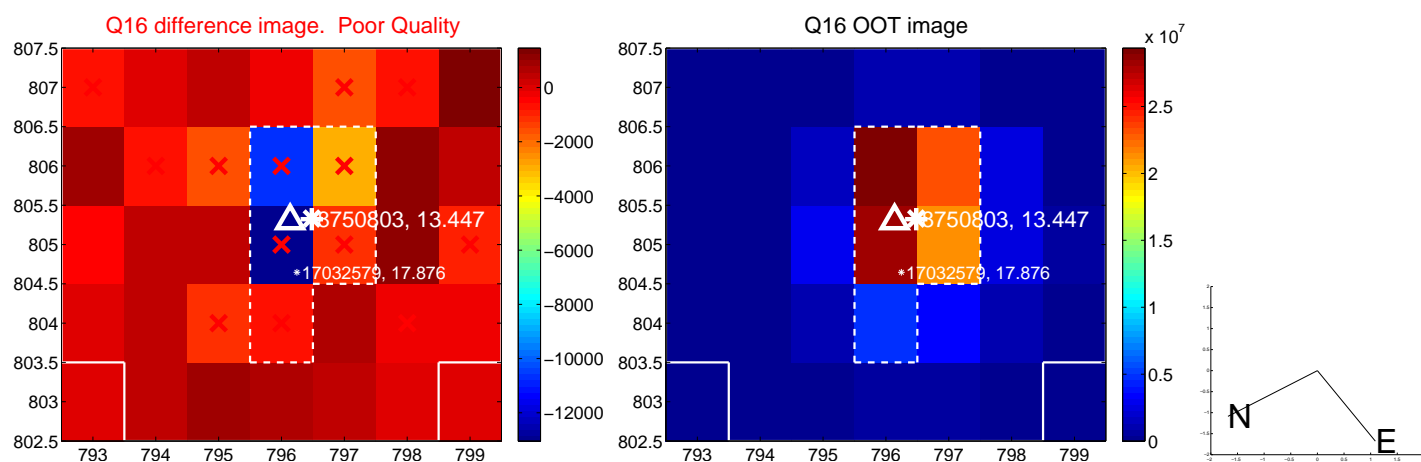
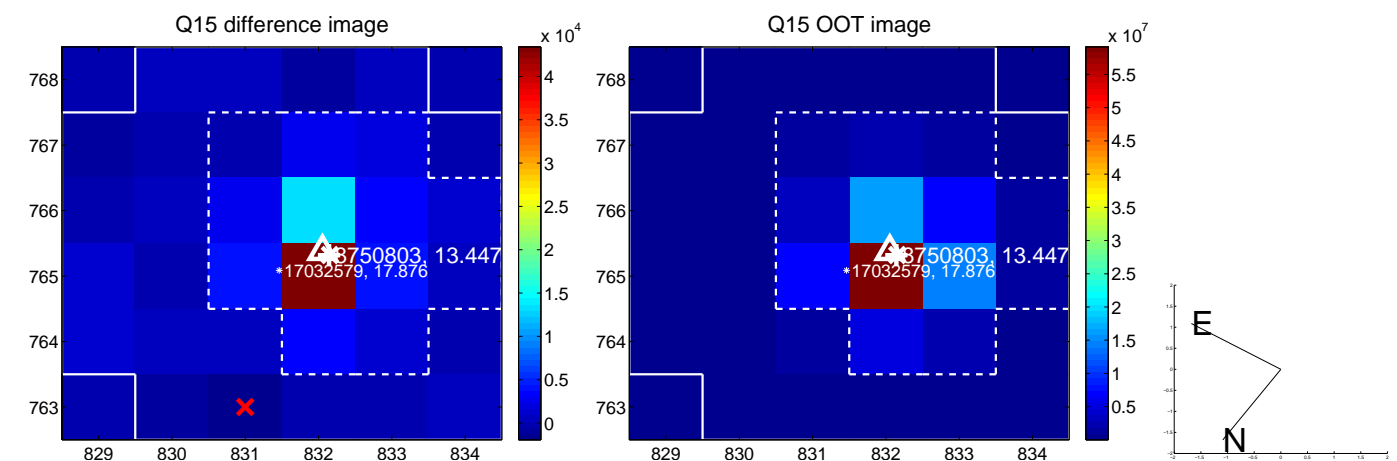
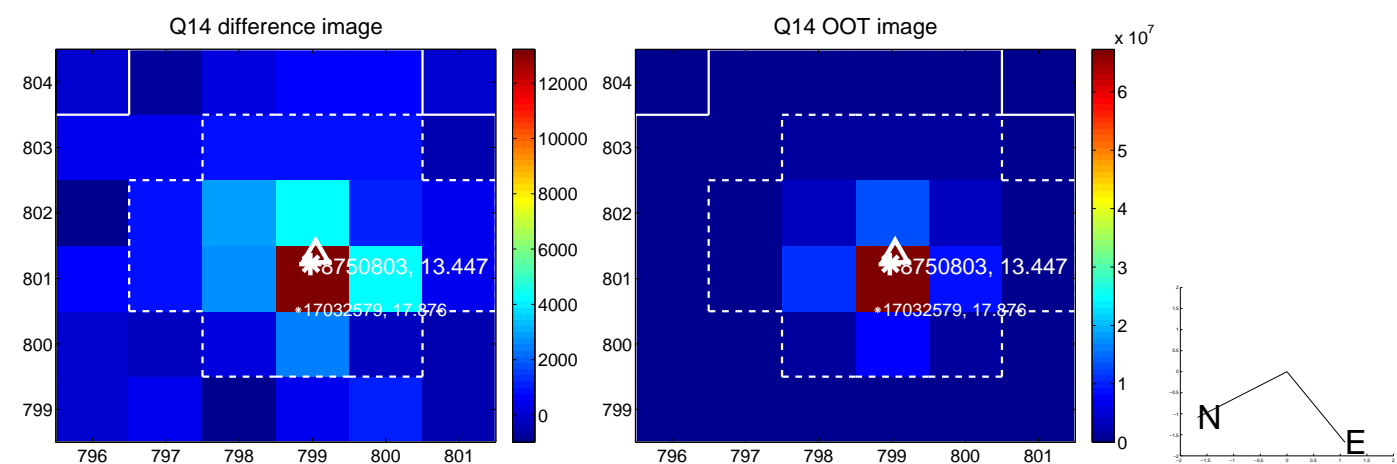
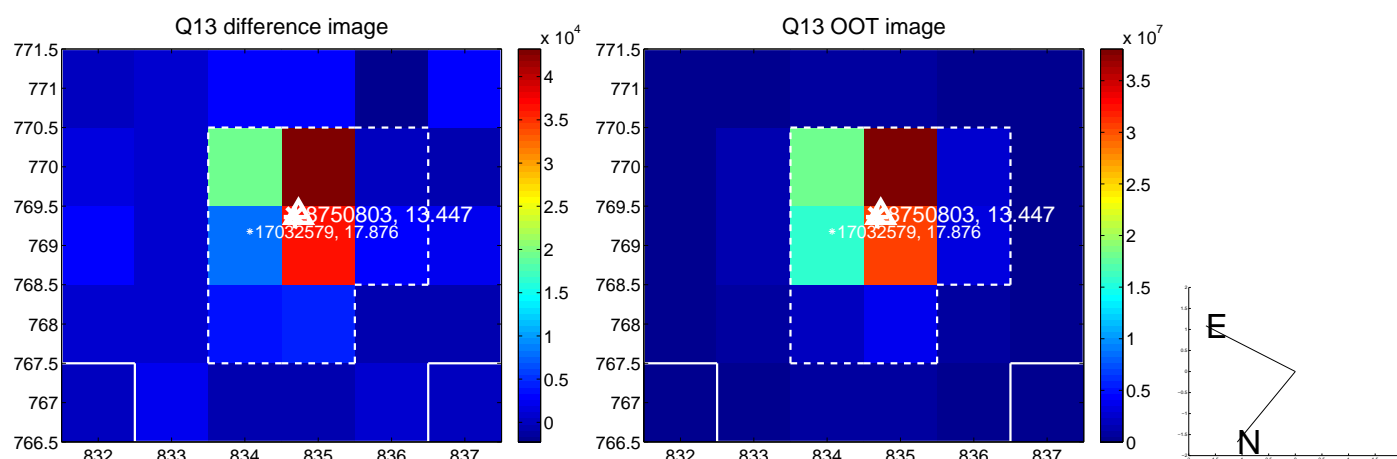
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



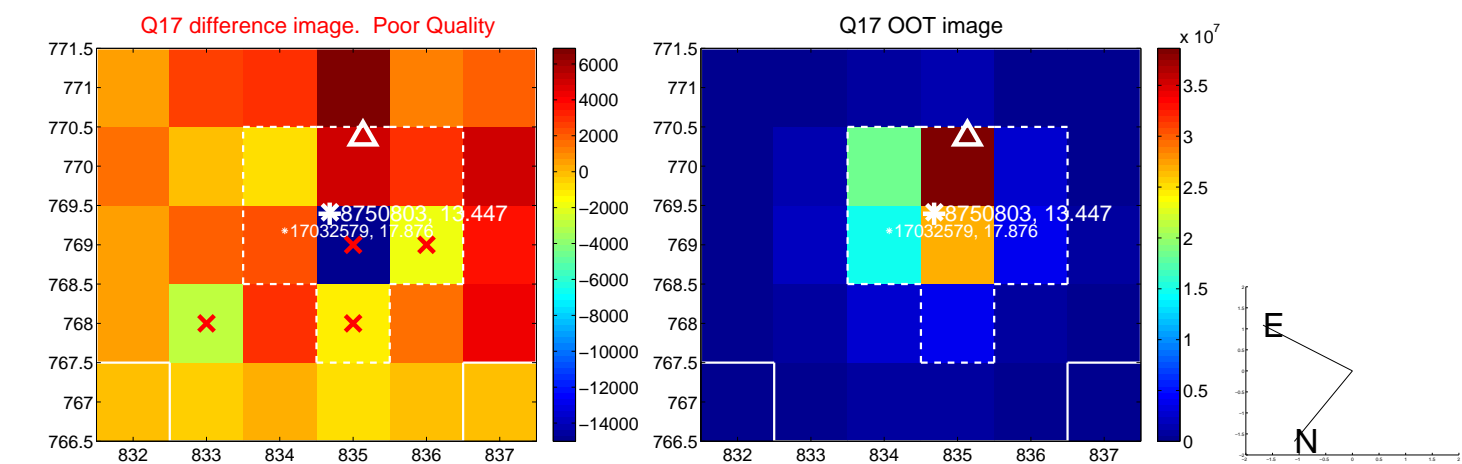
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



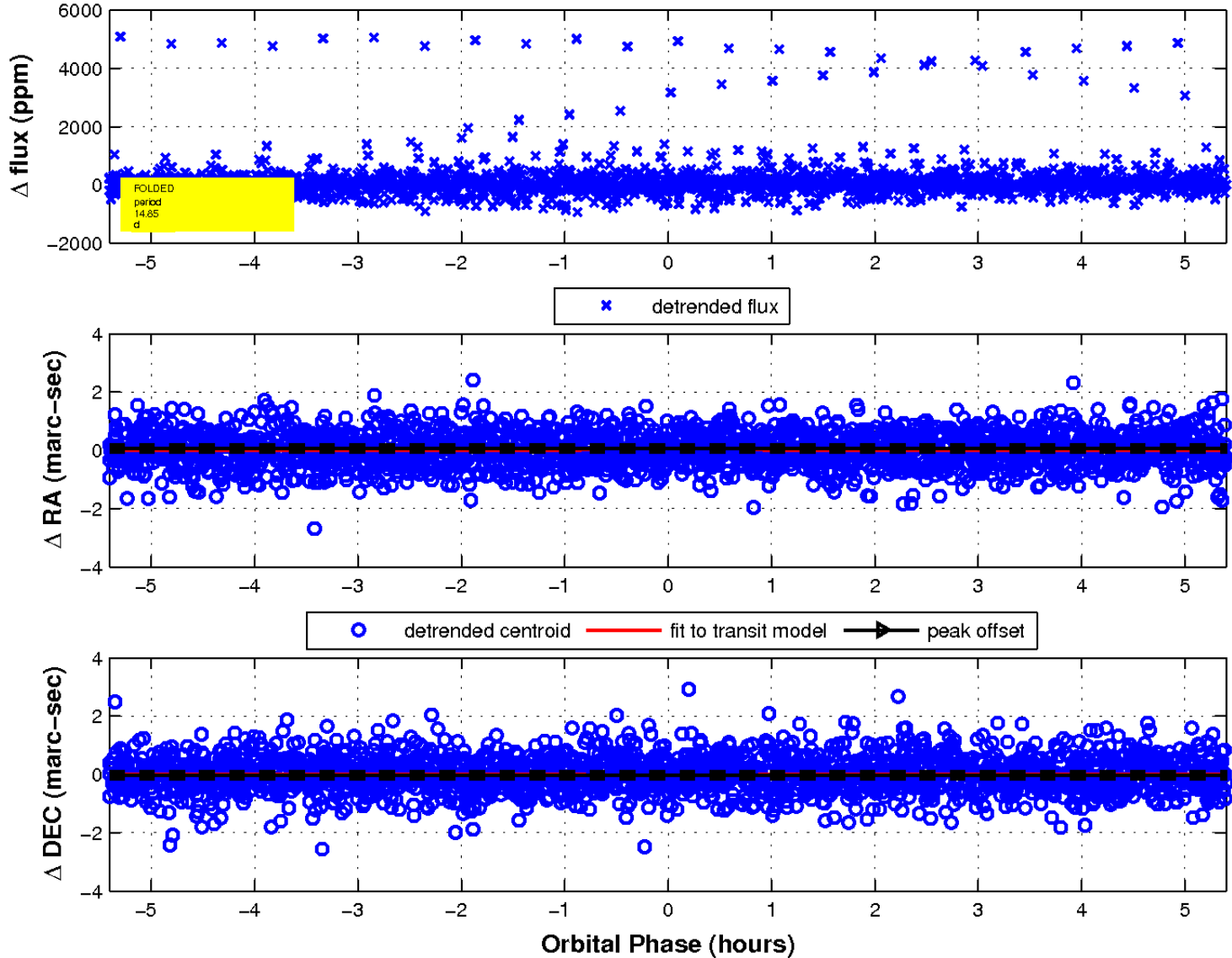
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

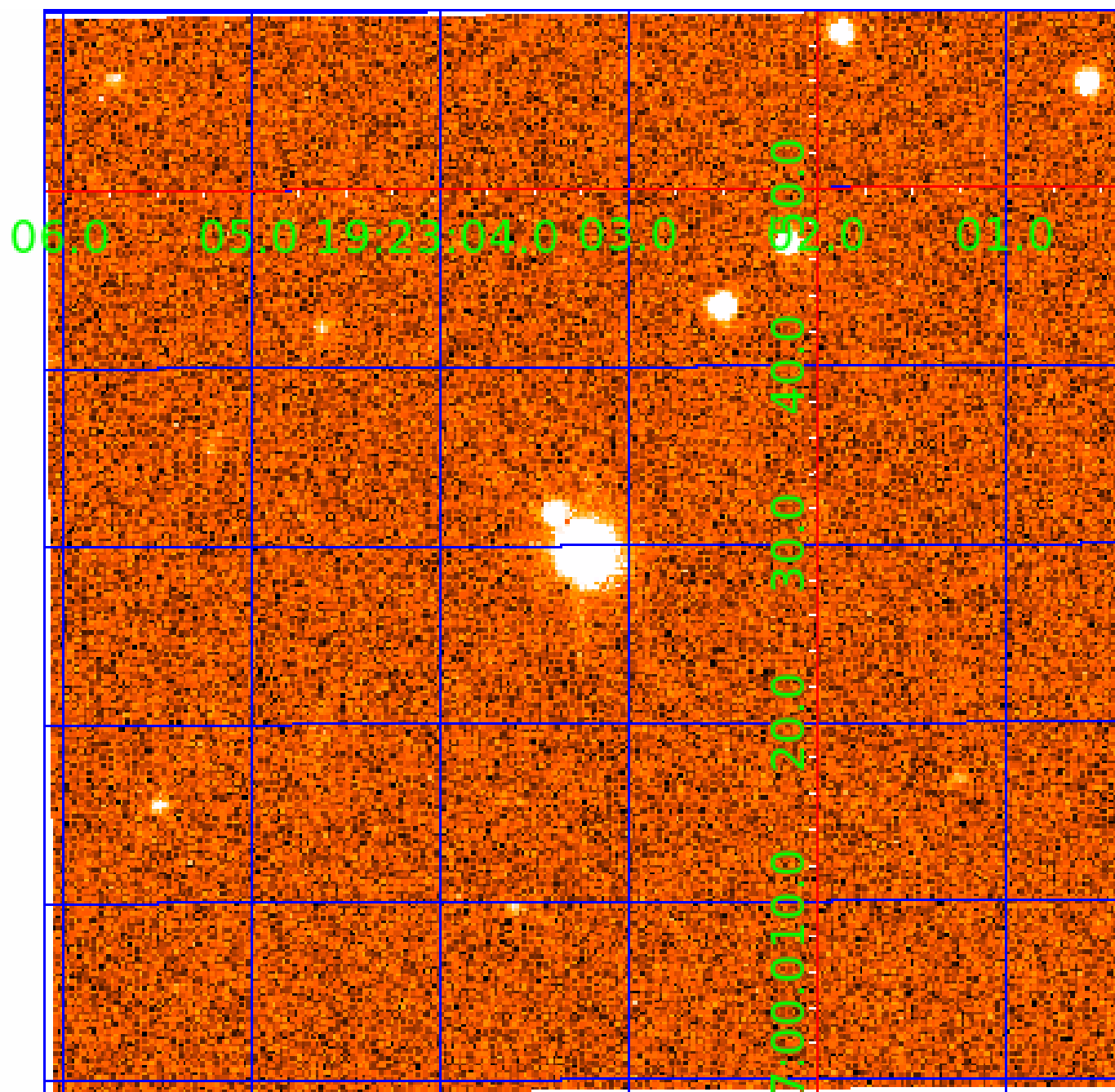


fluxWeightedCentroids, Planet 5 of 9



UKIRT Image

Declination



KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

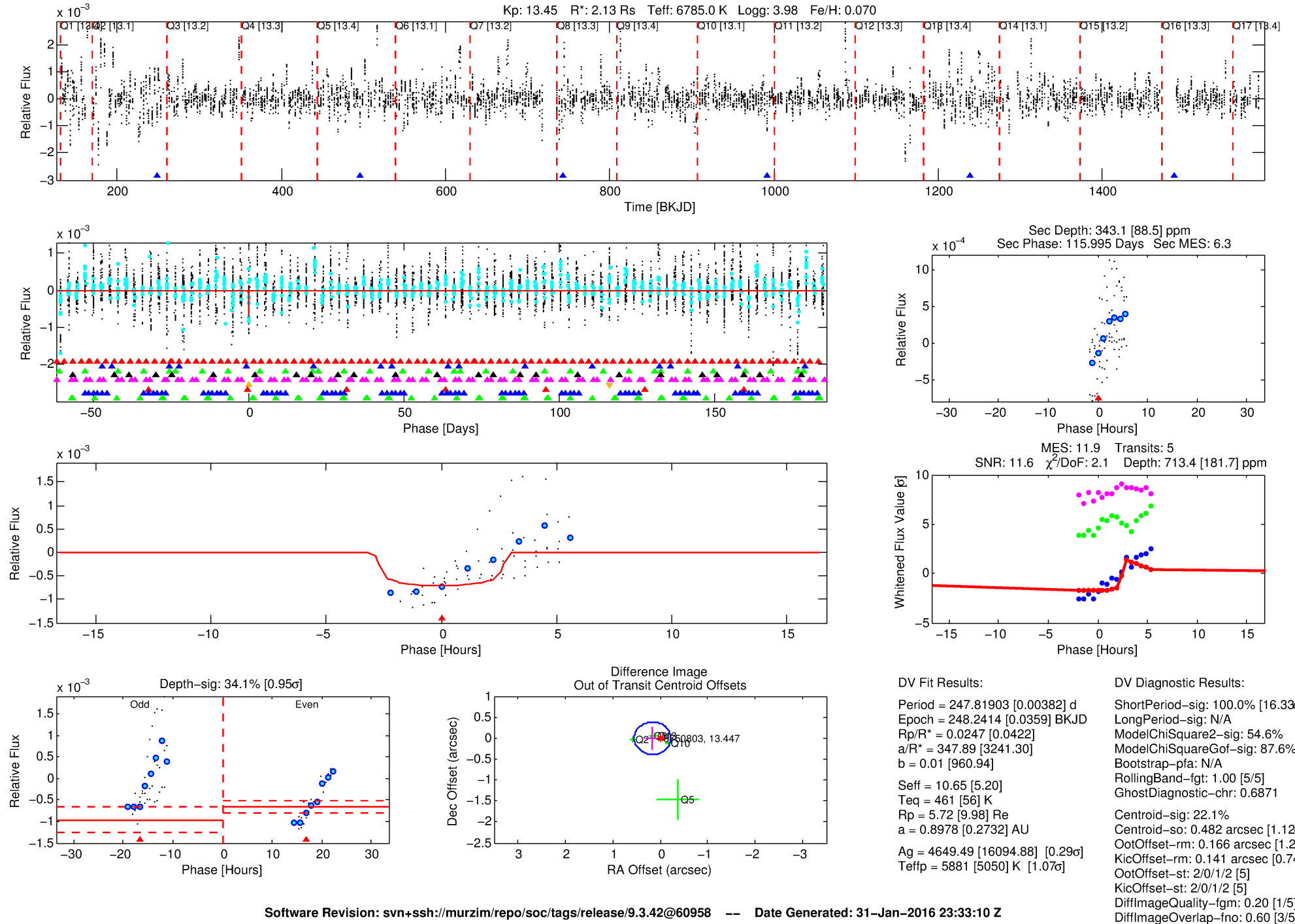
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-06

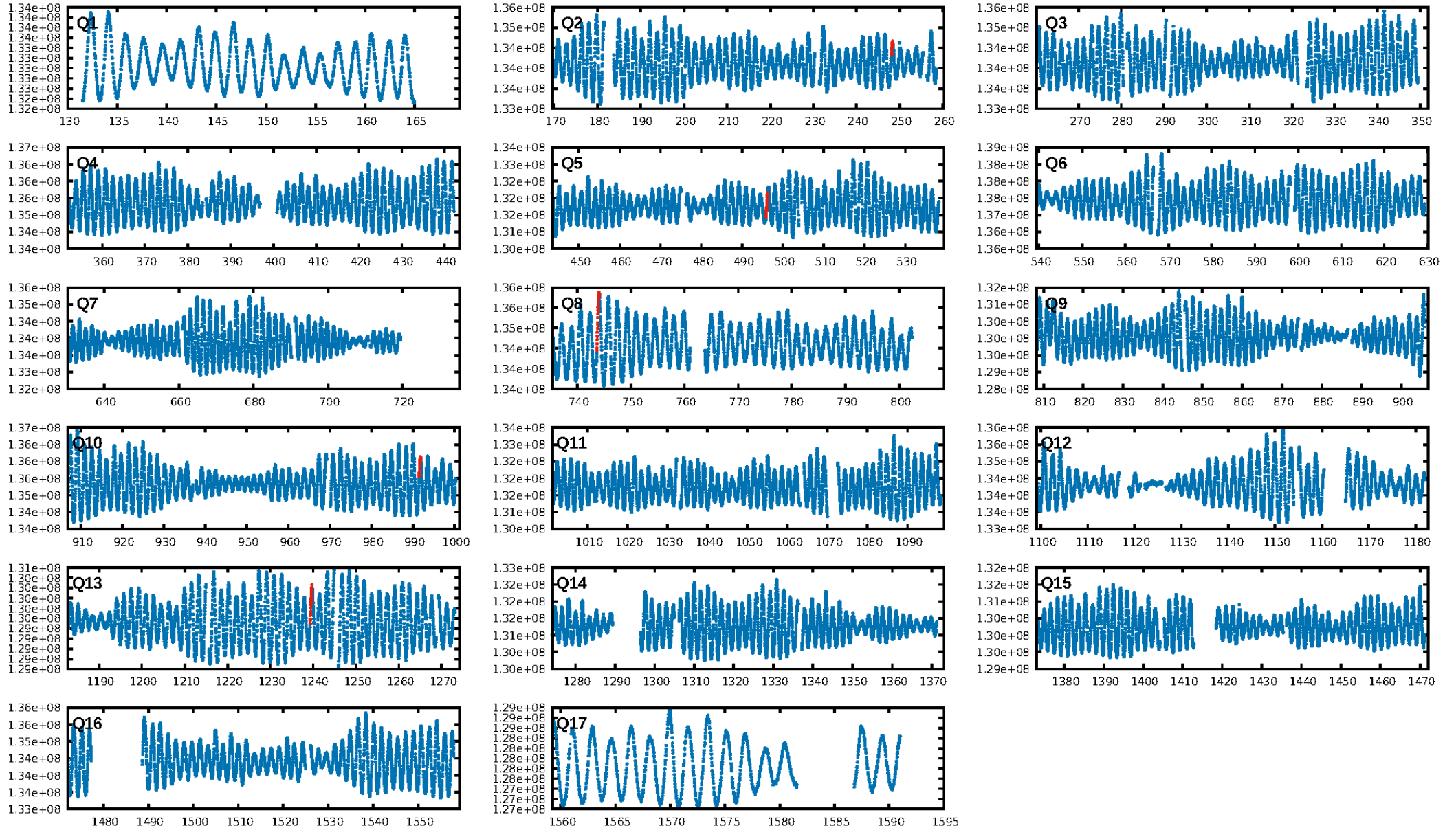
No Significant Match Found

DV One-Page Summary

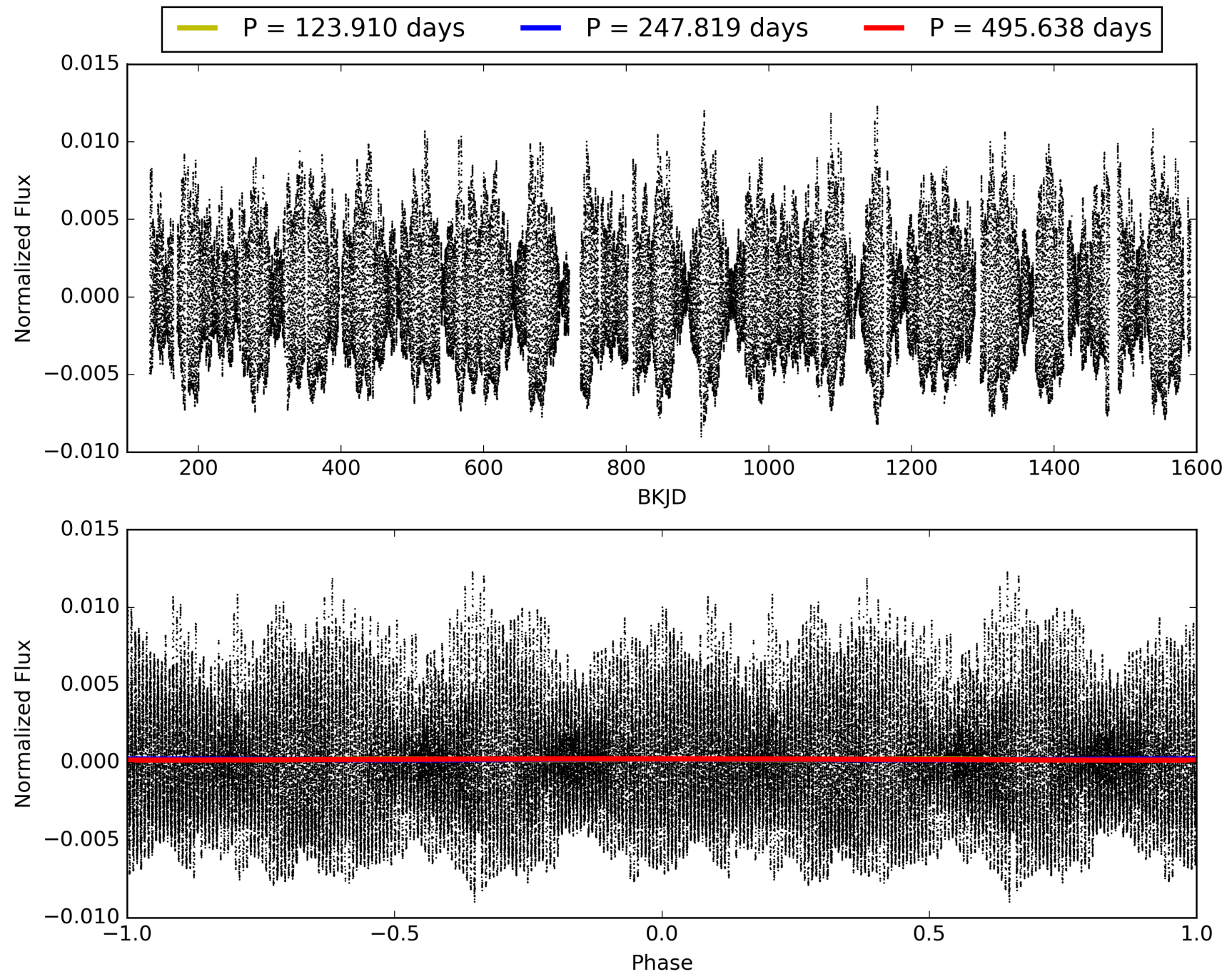
KIC: 8750803 Candidate: 6 of 9 Period: 247.819 d



TCE 008750803-06, PDC Light Curves

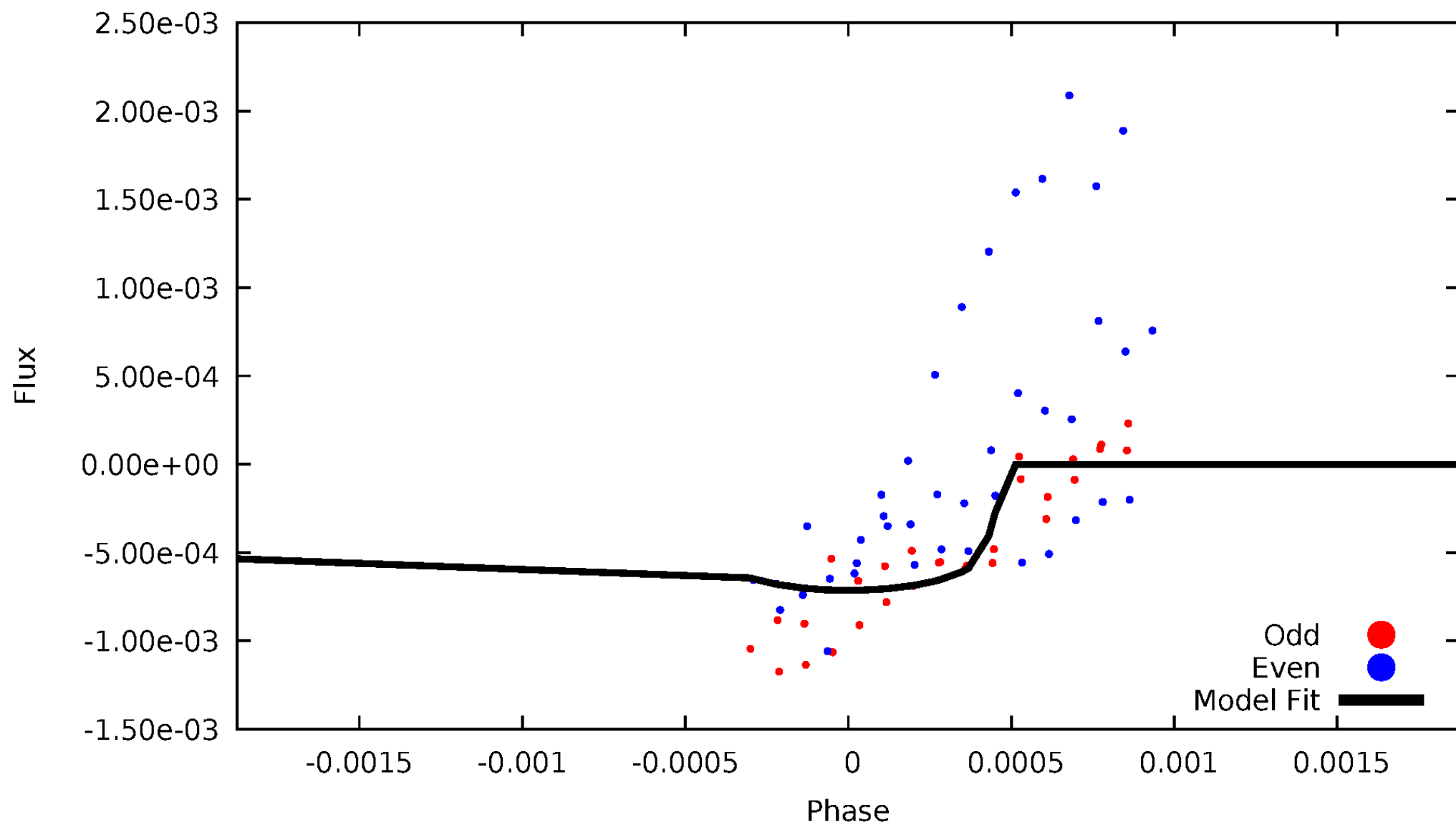


TCE 008750803-06



DV Odd/Even

TCE 008750803-06

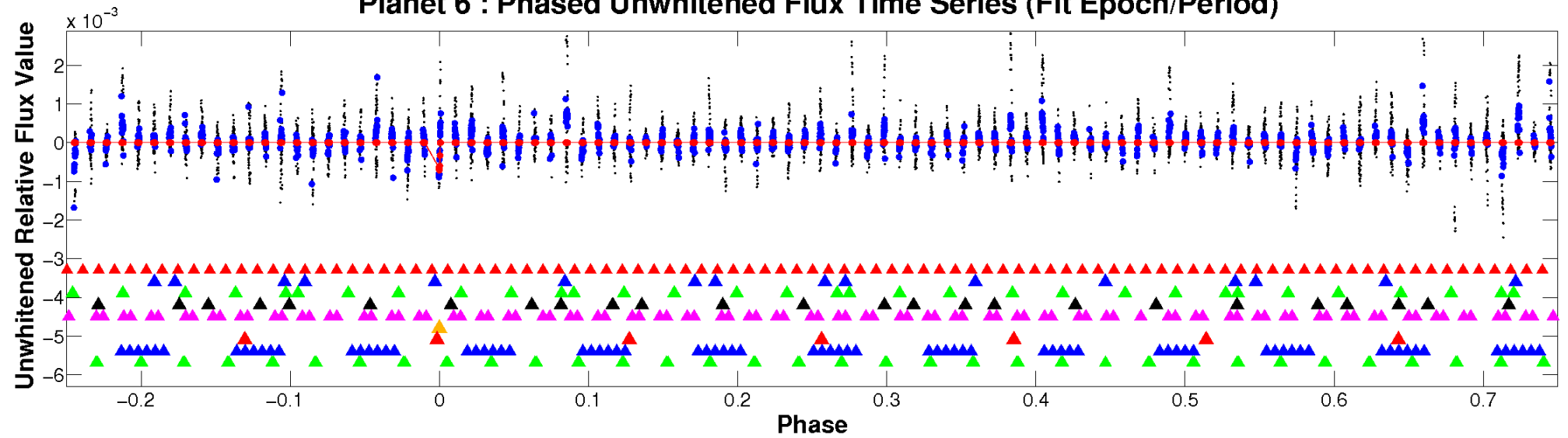


ALT Odd/Even

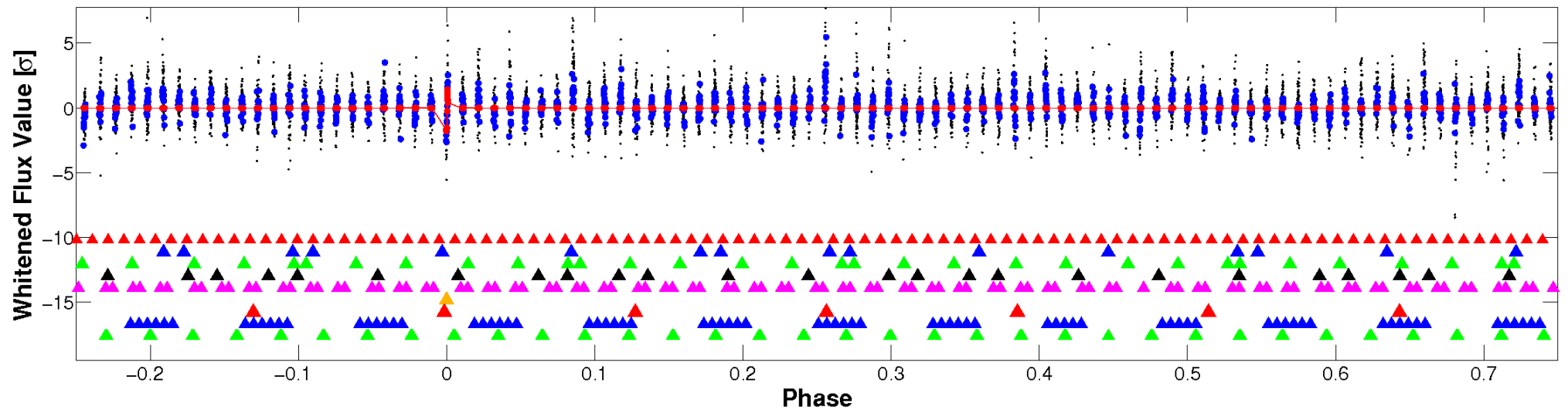
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

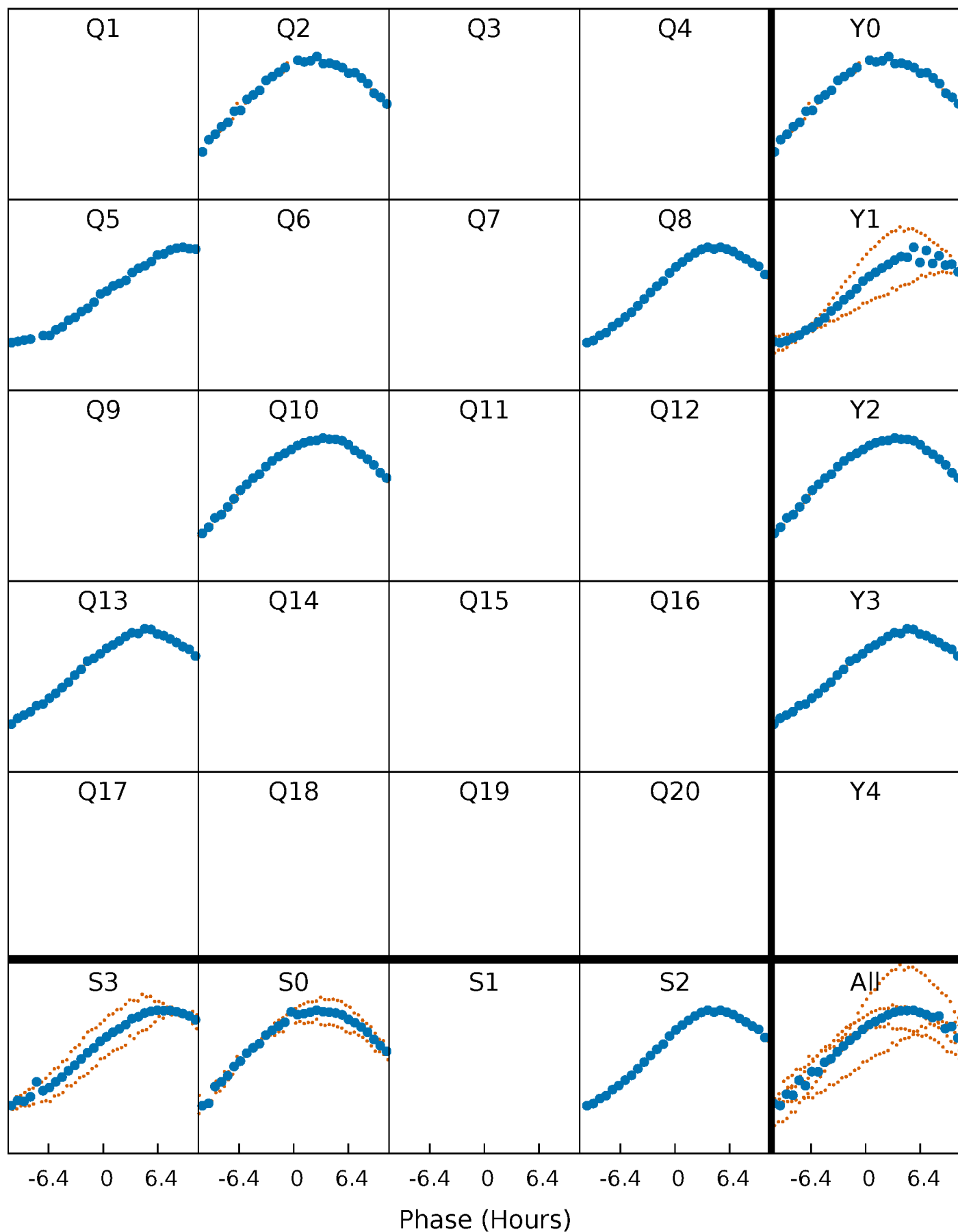


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



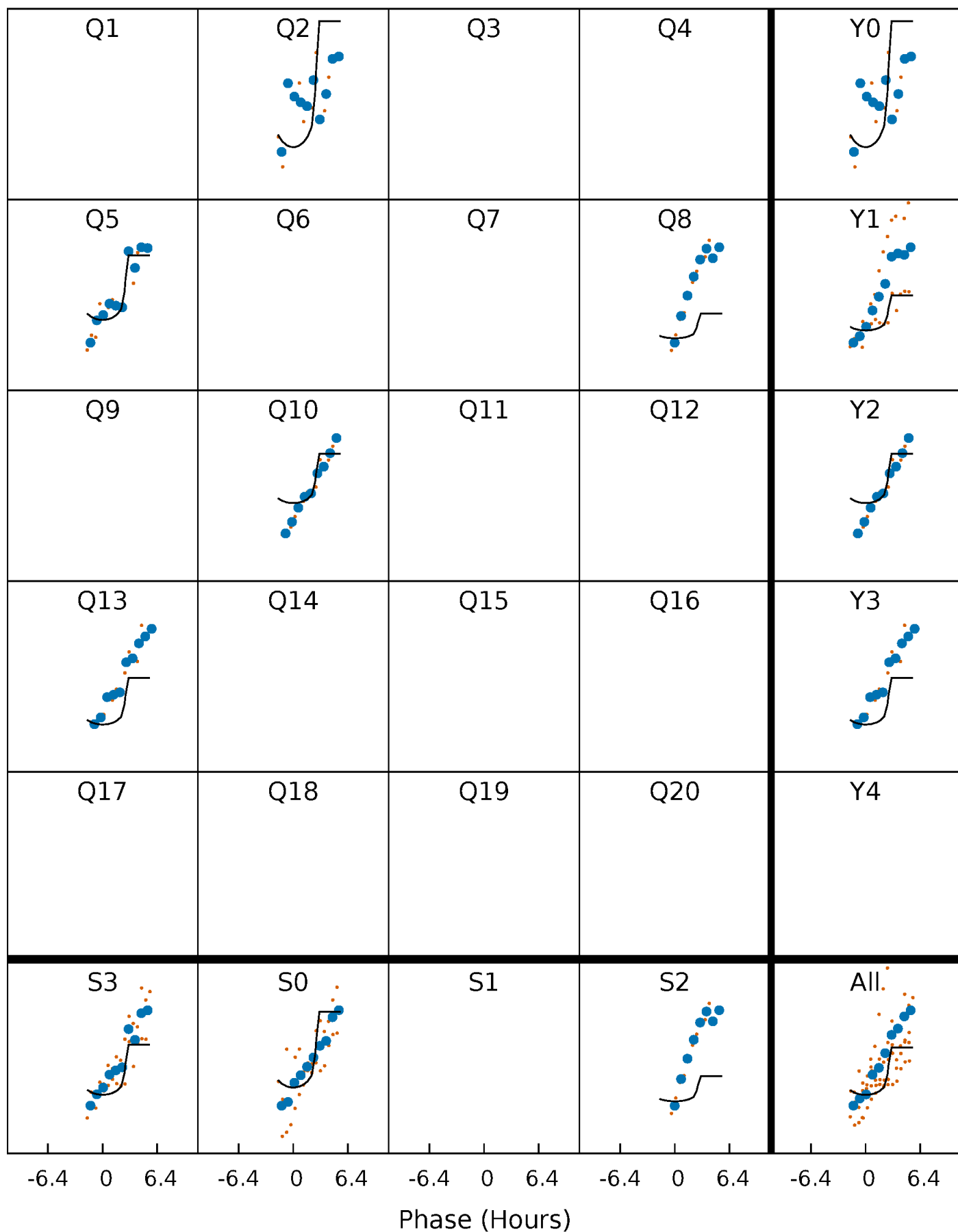
PDC Quarter-Phased Transit Curves

TCE 008750803-06 P=247.819034 Days $T_0=248.241421$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008750803-06 P=247.819034 Days $T_0=248.241421$ (BKJD)

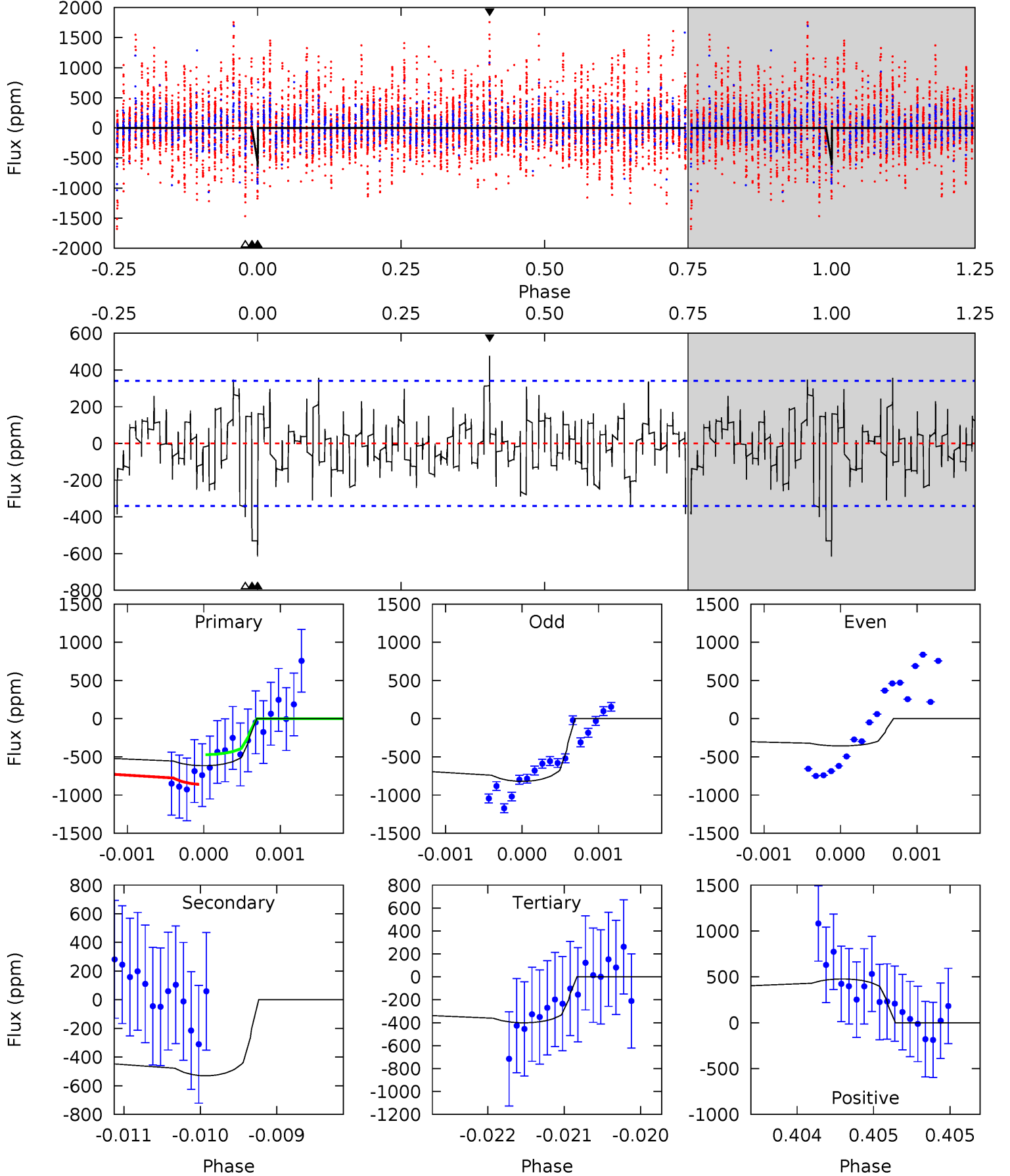


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008750803-06, P = 247.819034 Days, E = 0.422387 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.93	8.56	6.47	7.69	5.50	3.37	2.07	3.46	2.24	2.09	0.86	3.15	0.97	0.44	2.90



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008750803

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-530 ± 62	$8.68^{+8.25}_{-5.72}$	639^{+51}_{-59}	5204^{+4096}_{-1134}	2946^{+23873}_{-2139}
Alt.	N/A	N/A	N/A	N/A	N/A

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

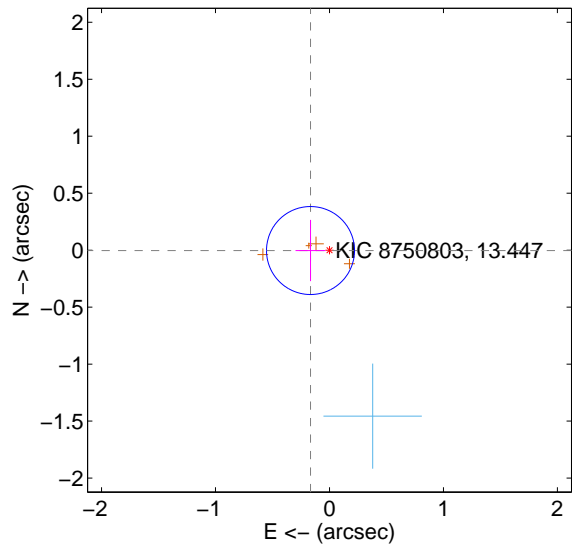
Supplemental centroid analysis for 008750803-06. Kepler magnitude: 13.45. Transit SNR 11.60

There are 1 quarters with good PRF difference image offsets

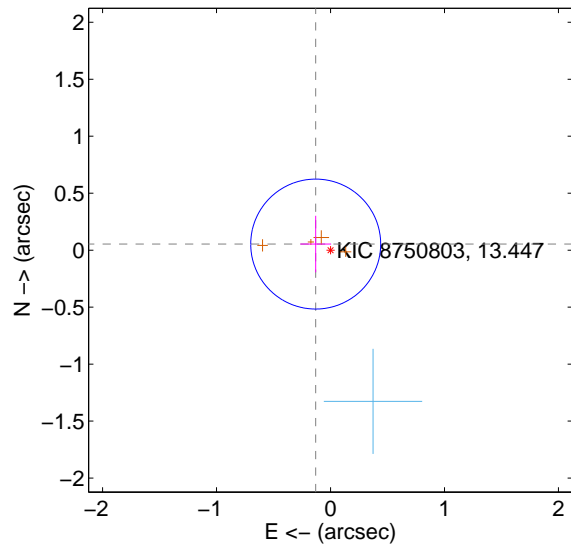
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.166 ± 0.129	1.29	0.166 ± 0.132	-0.003 ± 0.269
PRF-fit source offset from KIC position	0.141 ± 0.190	0.74	0.130 ± 0.135	0.054 ± 0.248
photometric centroid source offset	0.48 ± 0.43	1.12	-0.33 ± 0.44	0.35 ± 0.42

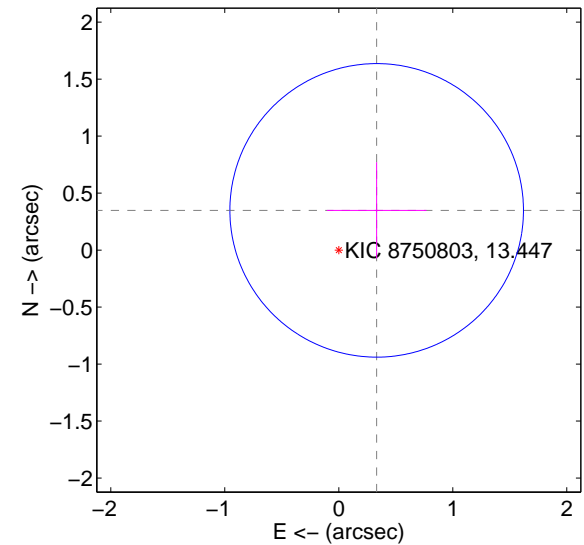
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

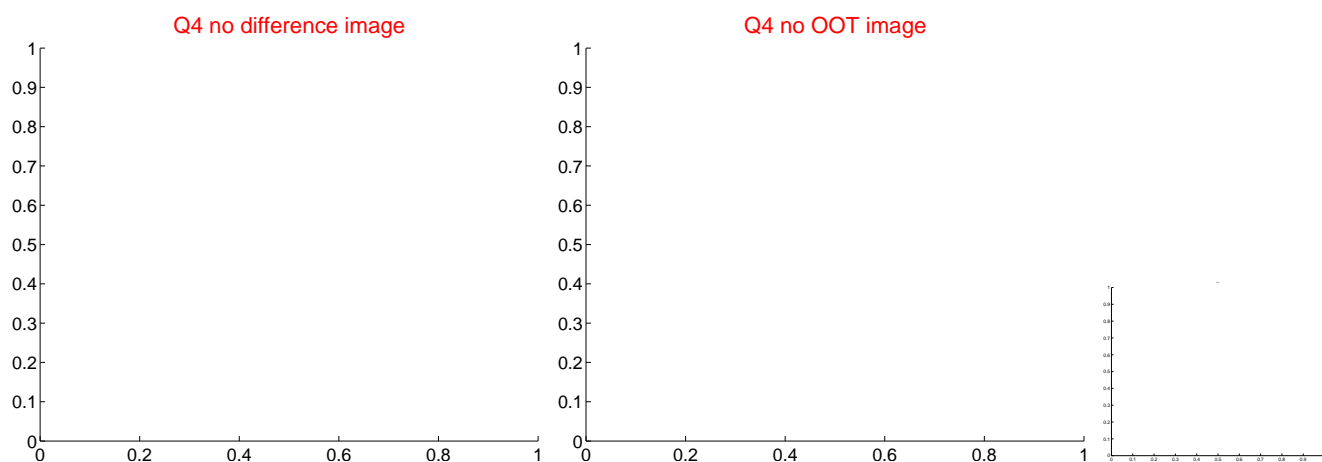
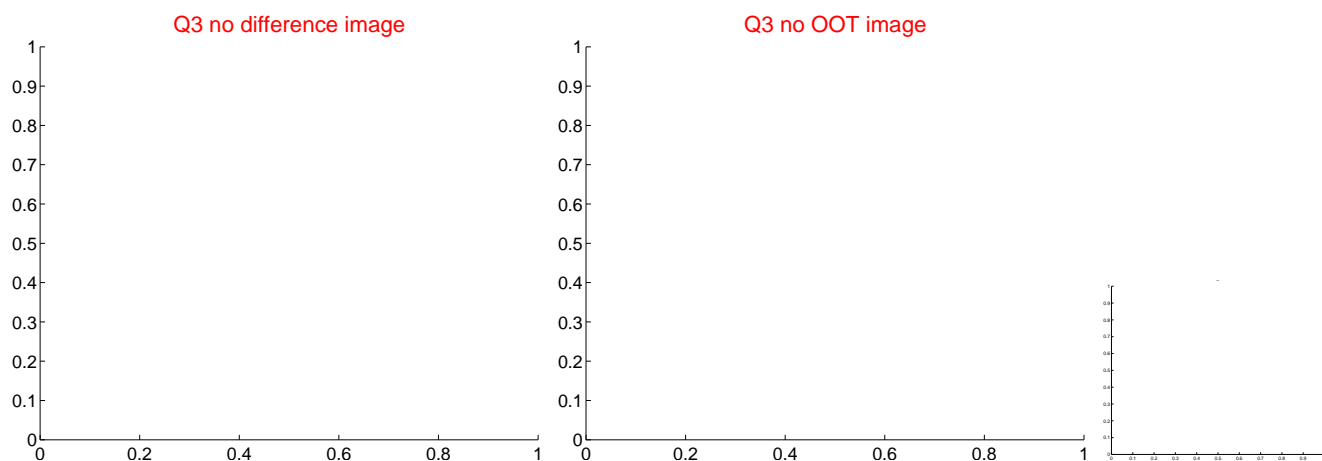
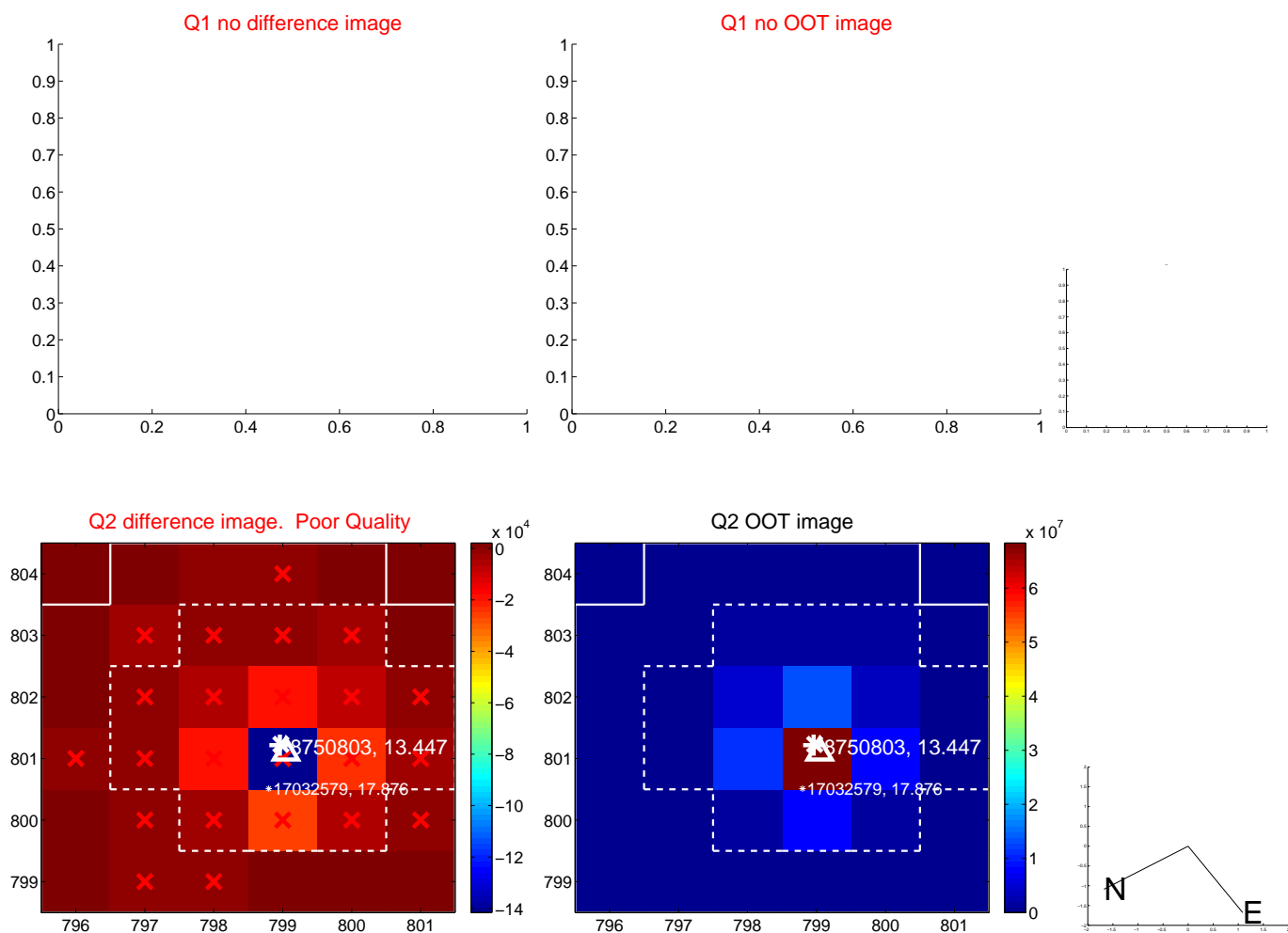


offset from photometric centroids

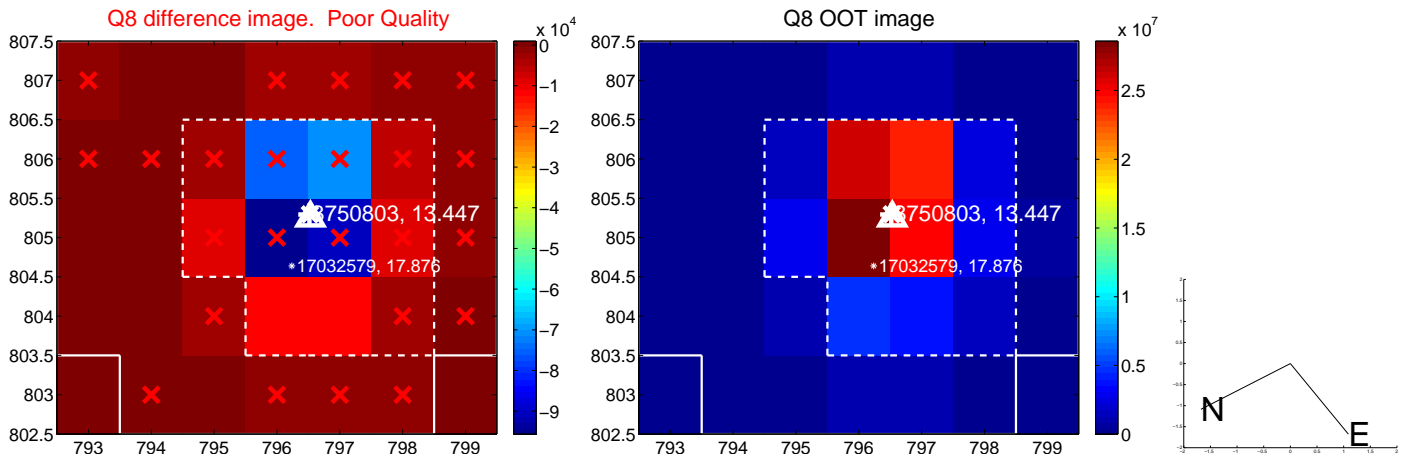
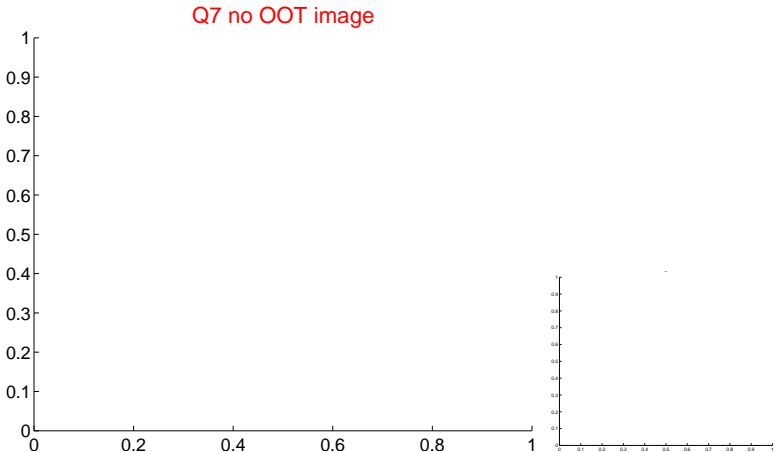
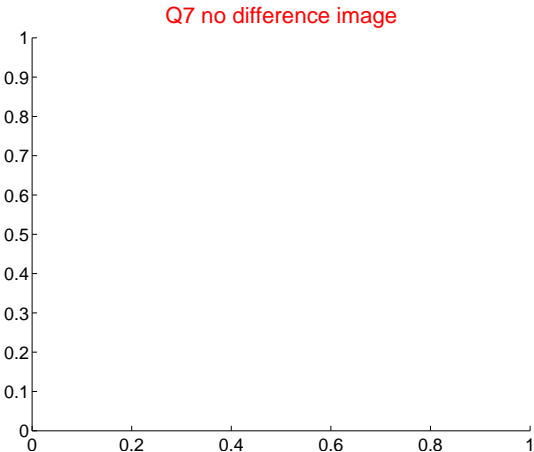
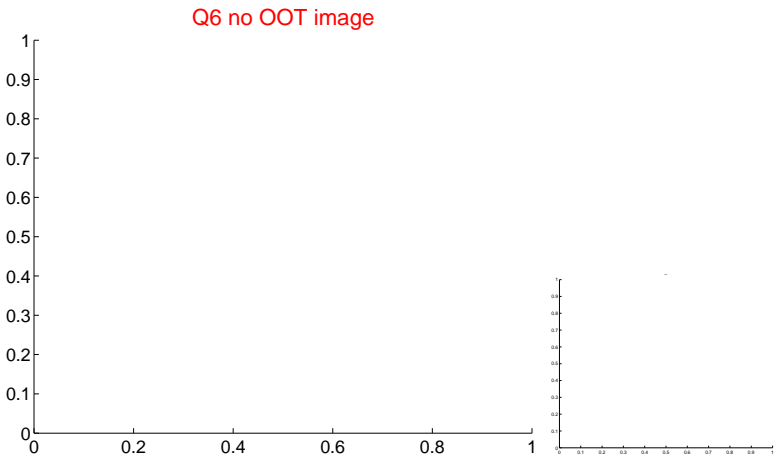
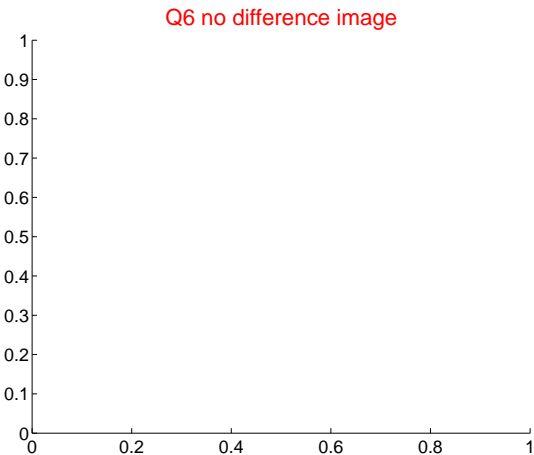
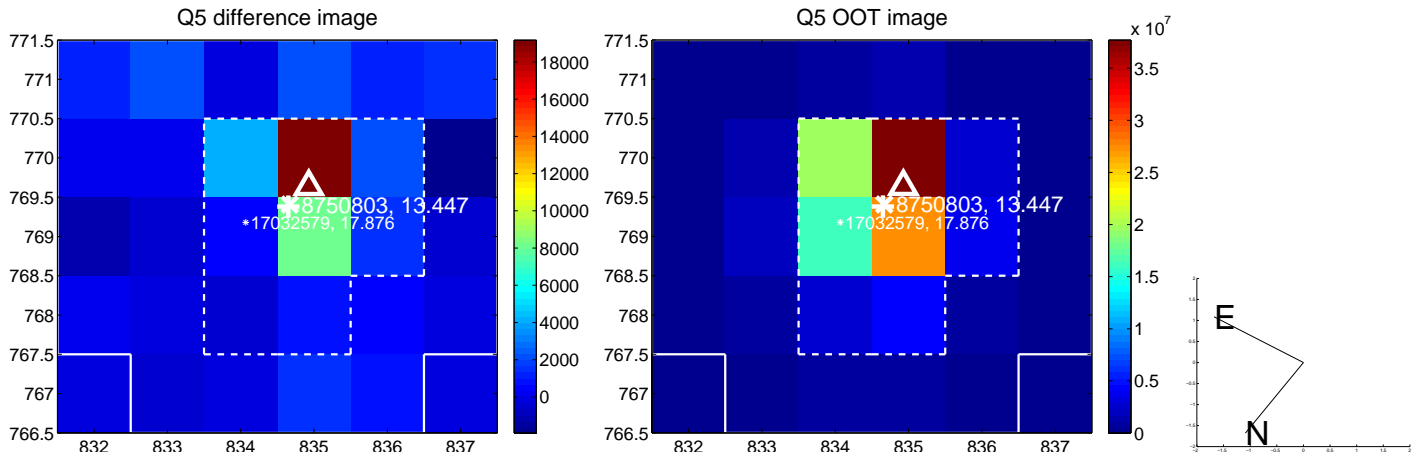


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

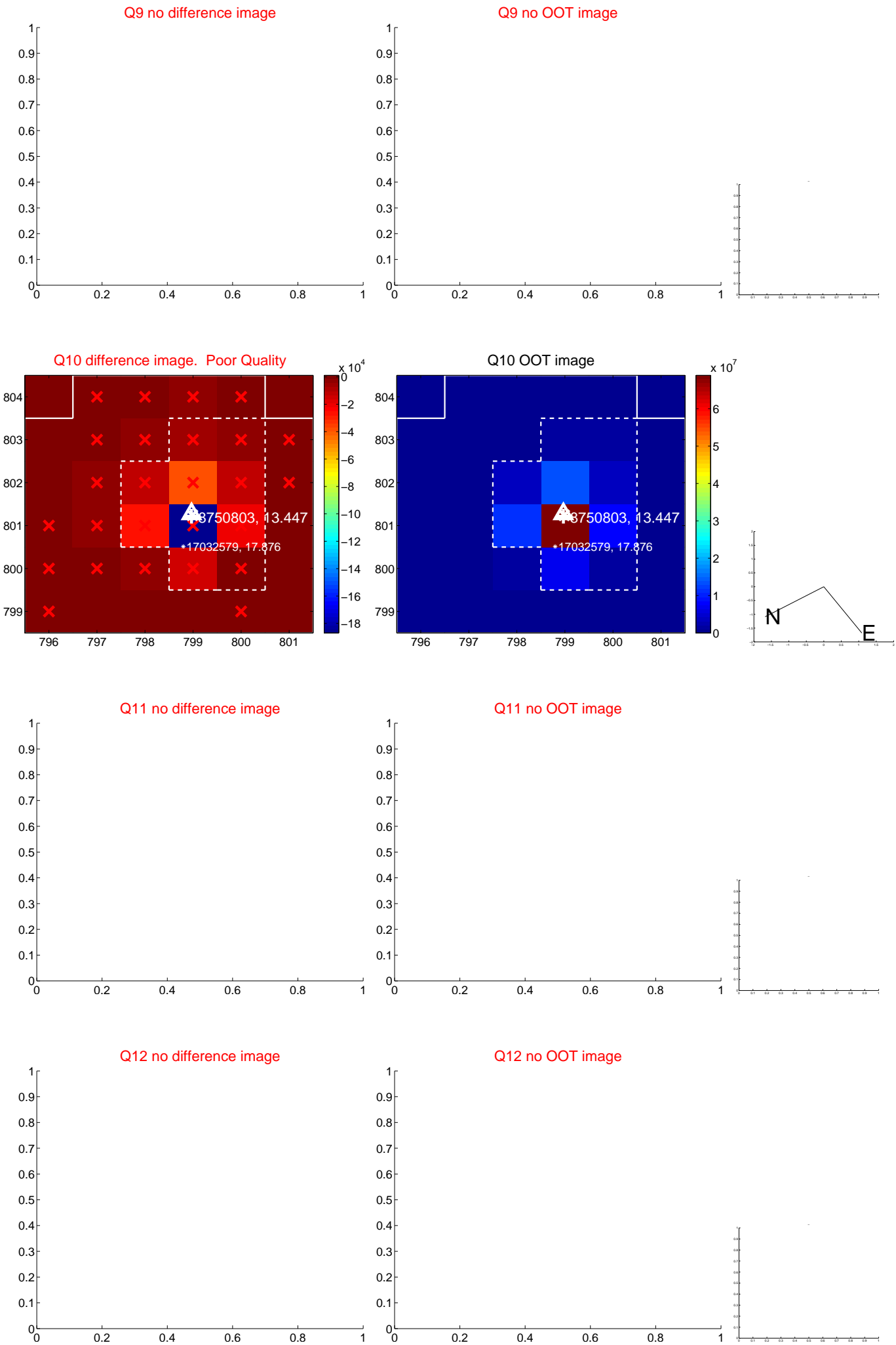
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



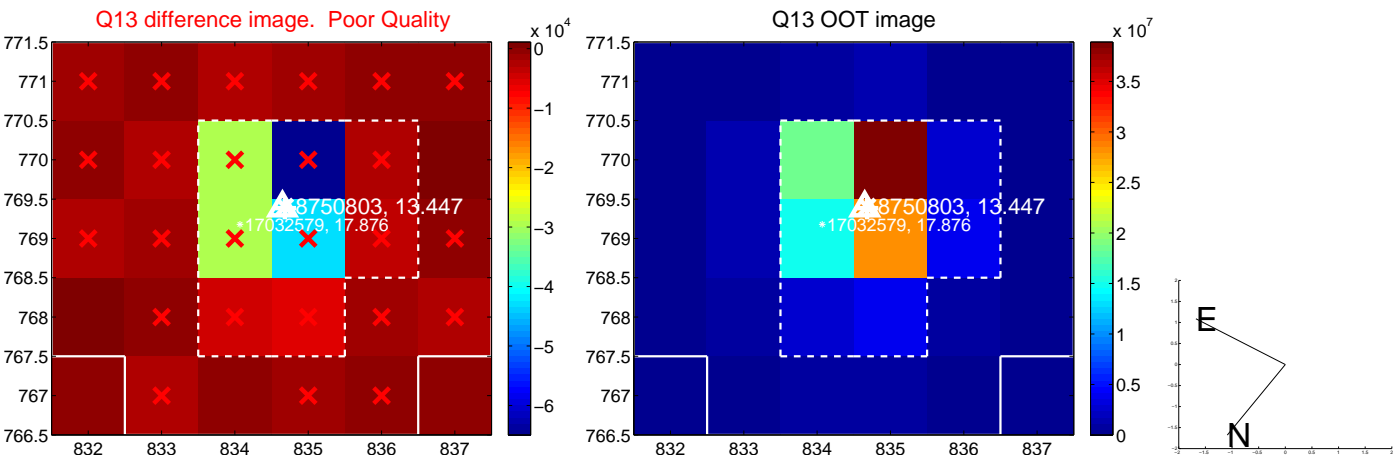
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



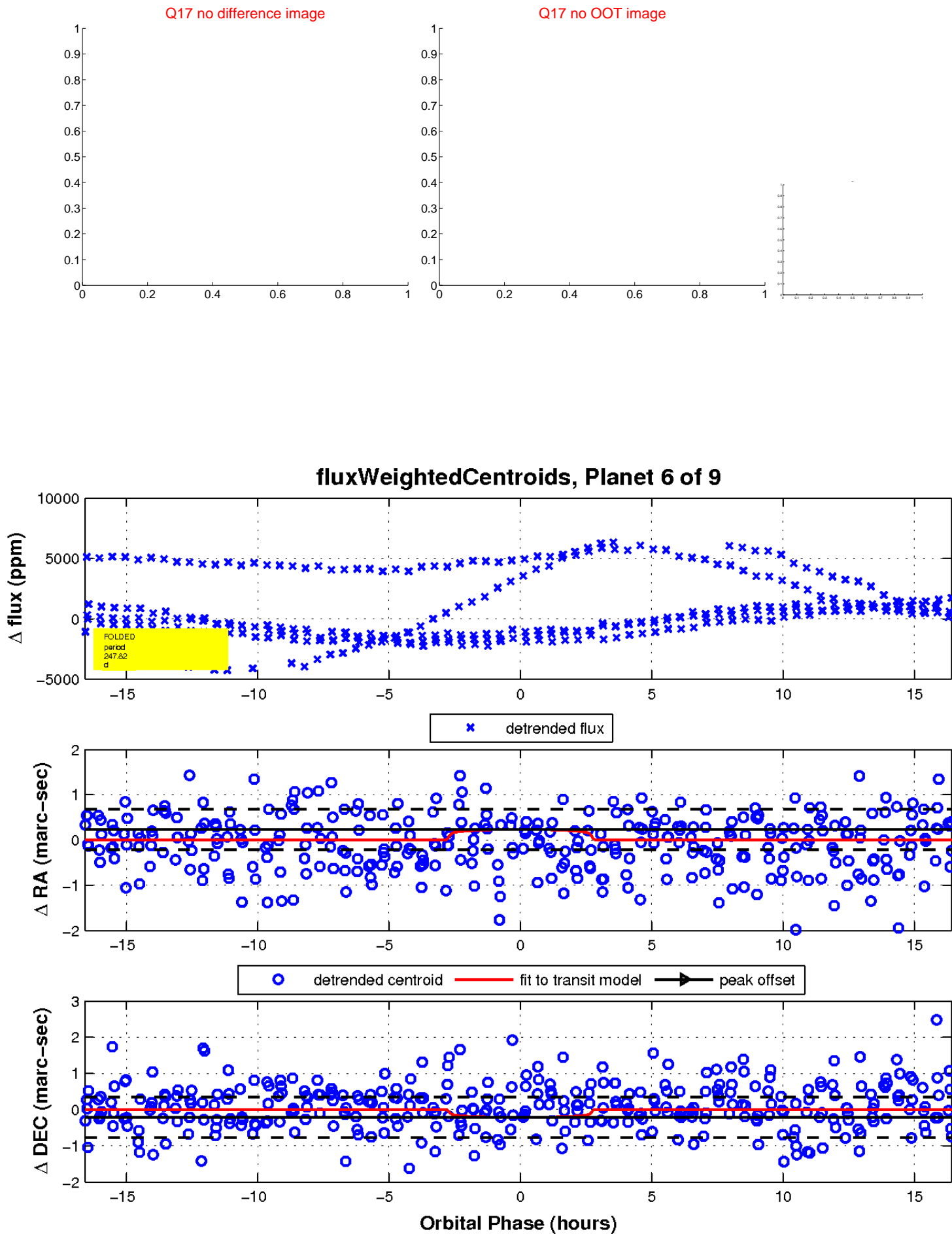
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



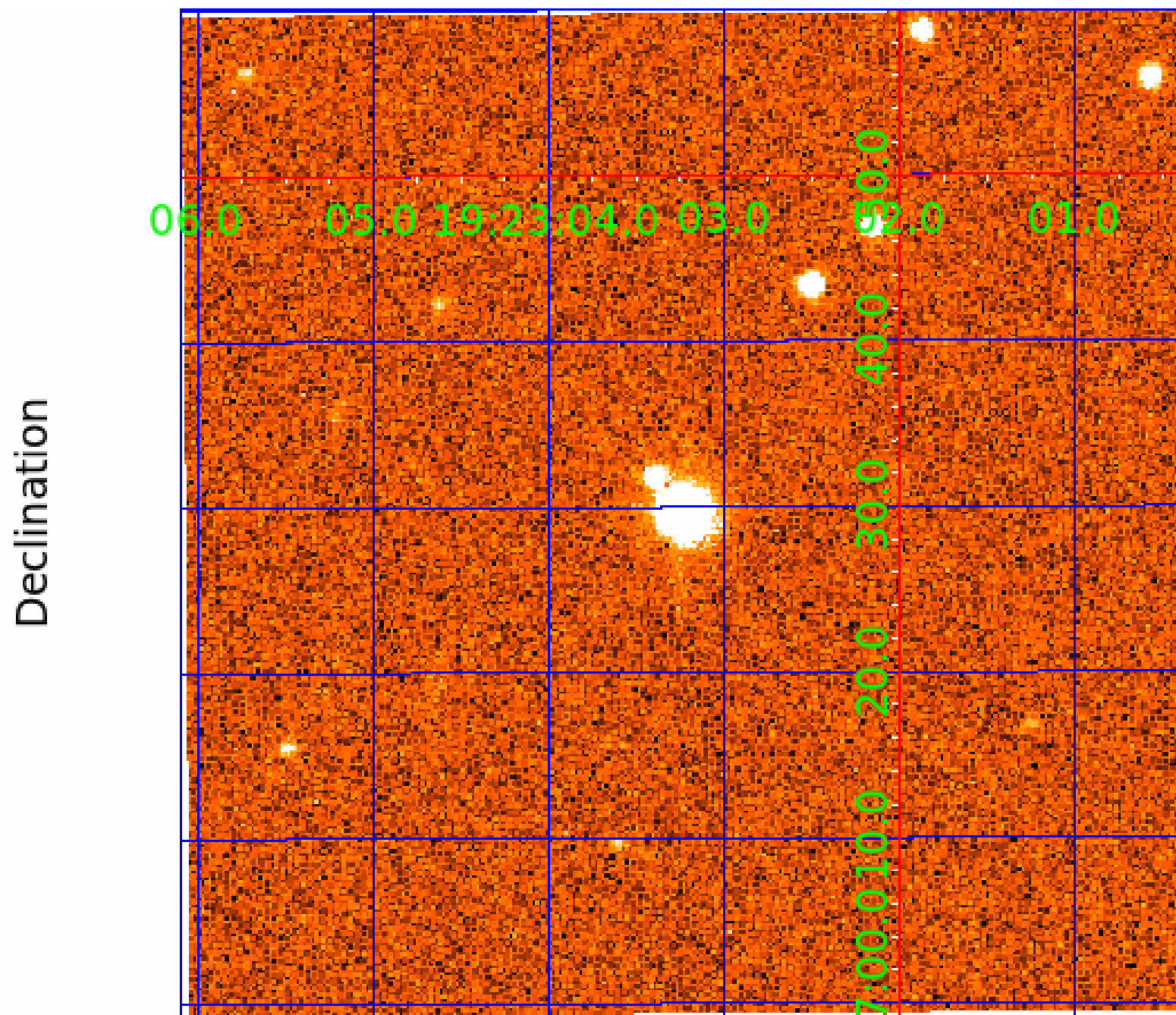
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

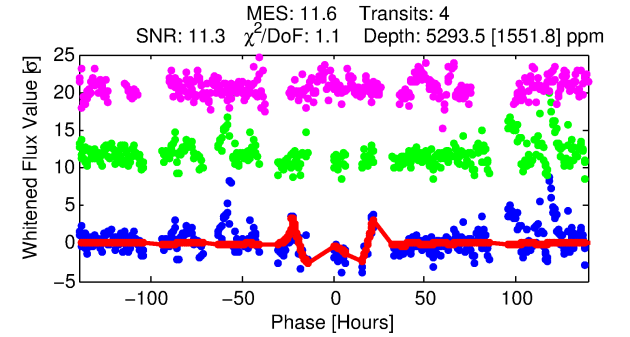
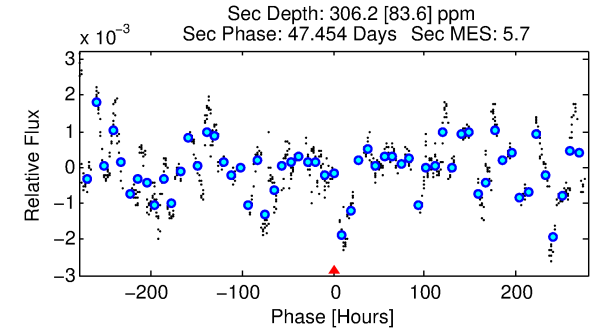
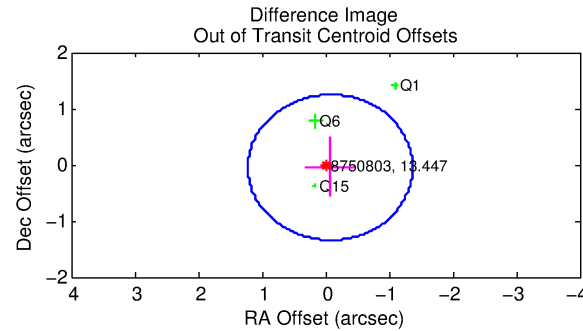
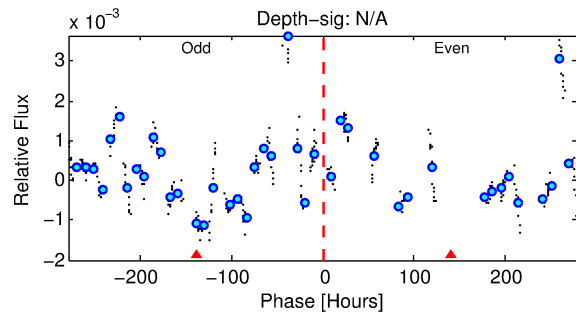
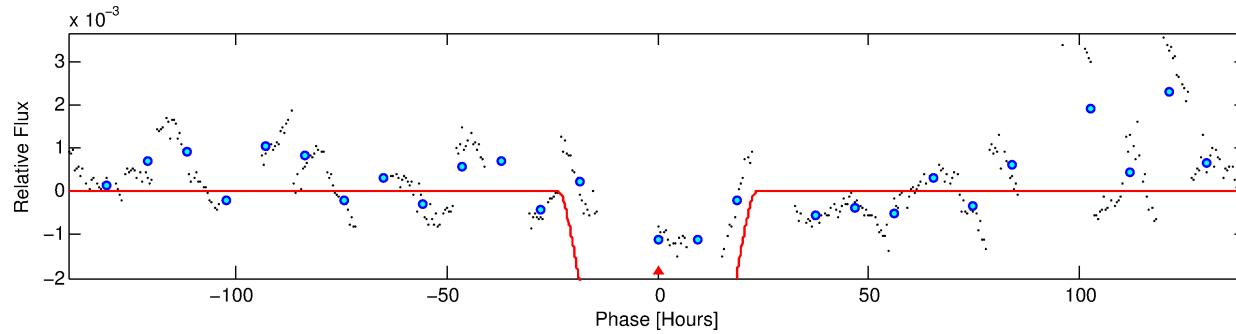
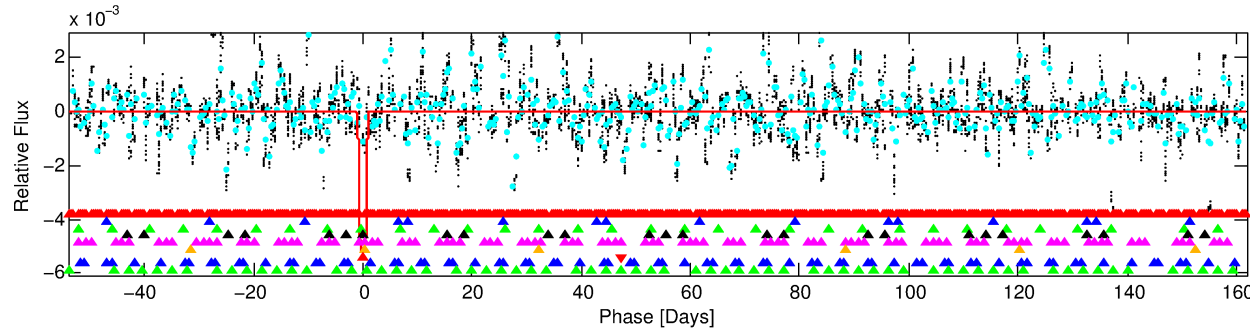
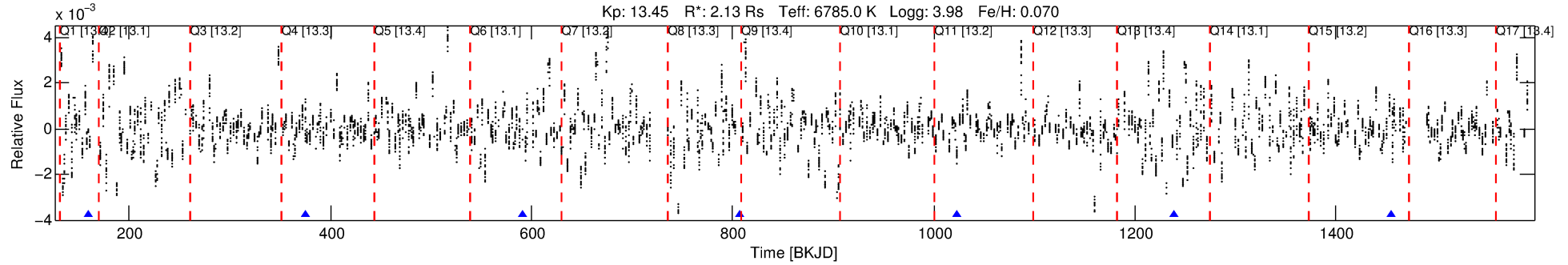
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-07

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 7 of 9 Period: 215.867 d



DV Fit Results:

Period = 215.86731 [0.03642] d
Epoch = 159.8007 [0.1291] BKJD
Rp/R* = 0.0753 [0.0109]
a/R* = 23.41 [1.88]
b = 0.85 [0.02]
Seff = 12.80 [6.25]
Teq = 482 [59] K
Rp = 17.48 [6.57] Re
a = 0.8188 [0.2492] AU
Ag = 369.60 [224.49] [1.64σ]
Teffp = 3270 [353] K [7.79σ]

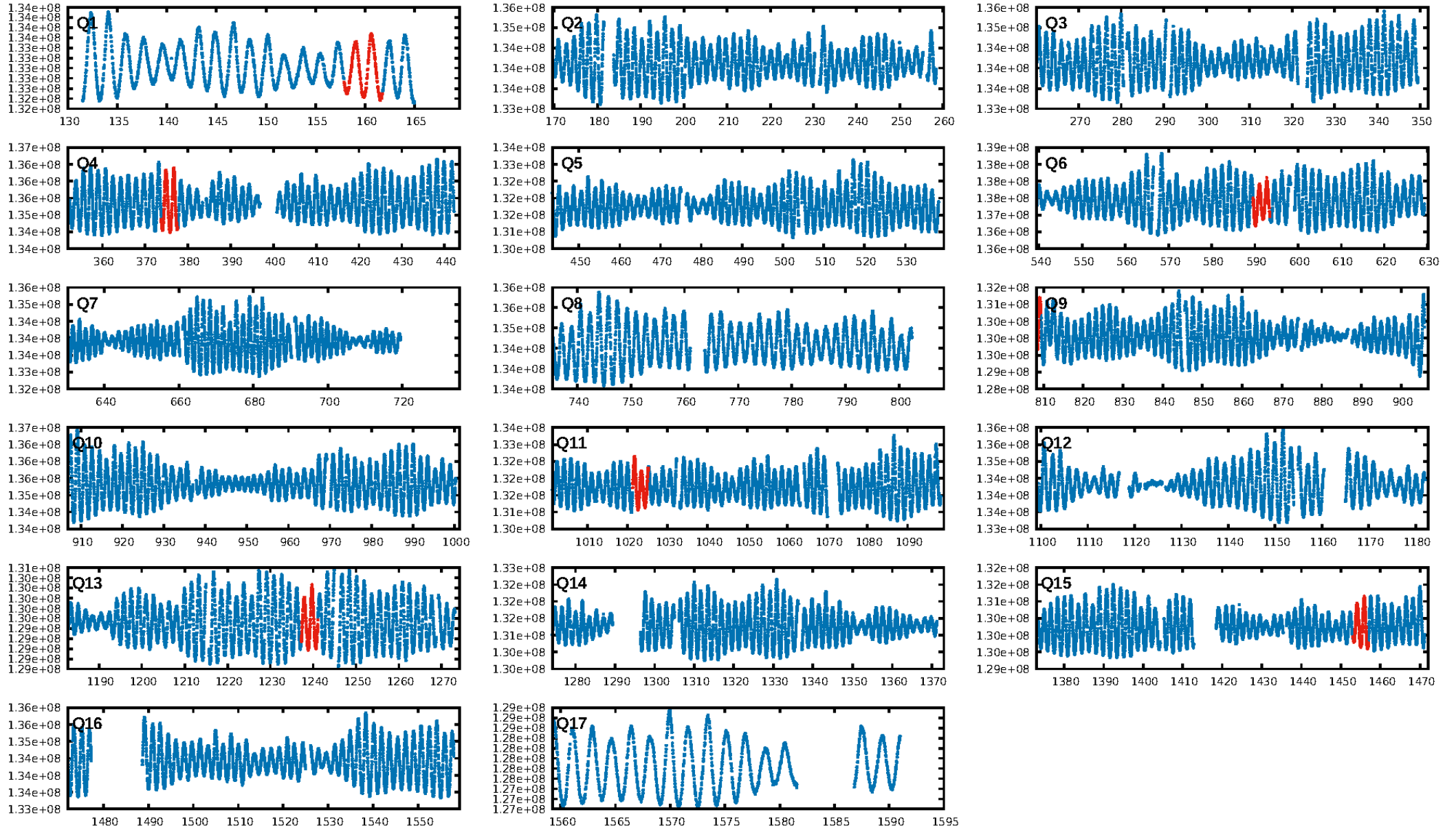
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [63.12σ]
LongPeriod-sig: 100.0% [16.33σ]
ModelChiSquare2-sig: 5.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.5403
Centroid-sig: 0.1%
Centroid-so: 0.088 arcsec [4.03σ]
OotOffset-rm: 0.089 arcsec [0.21σ]
KicOffset-rm: 0.063 arcsec [0.15σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 0.00 [0/3]

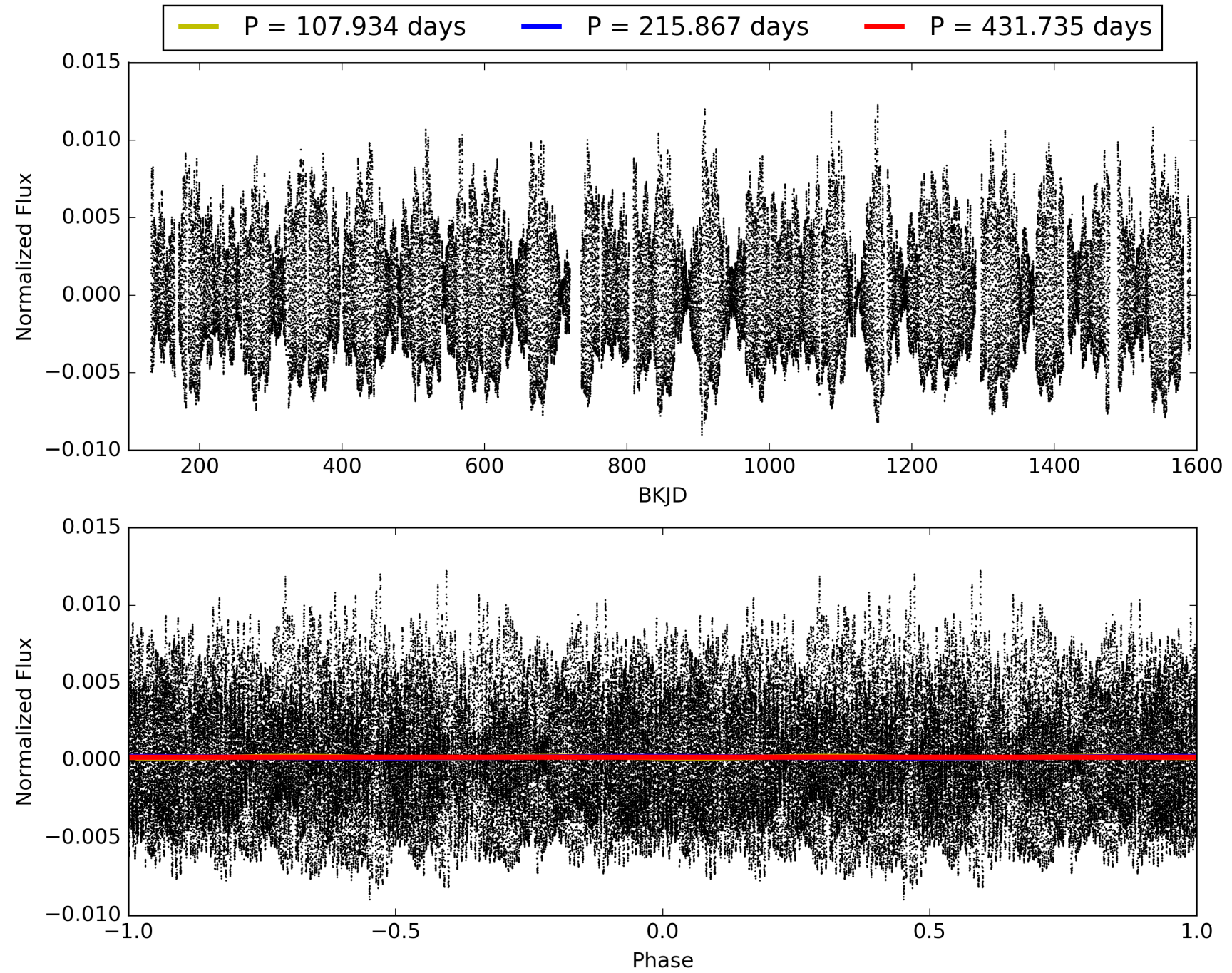
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:33:14 Z

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

TCE 008750803-07, PDC Light Curves

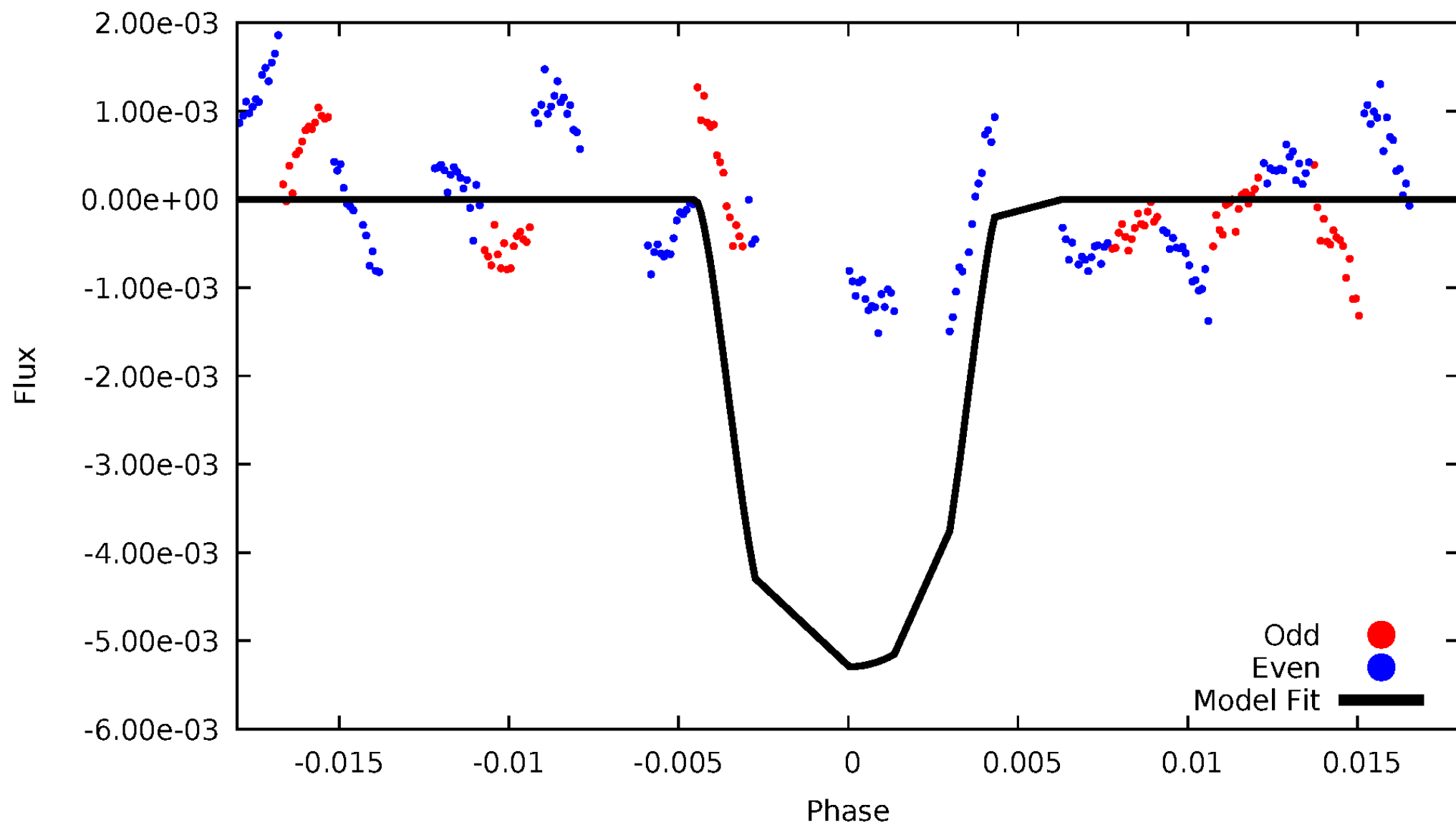


TCE 008750803-07



DV Odd/Even

TCE 008750803-07

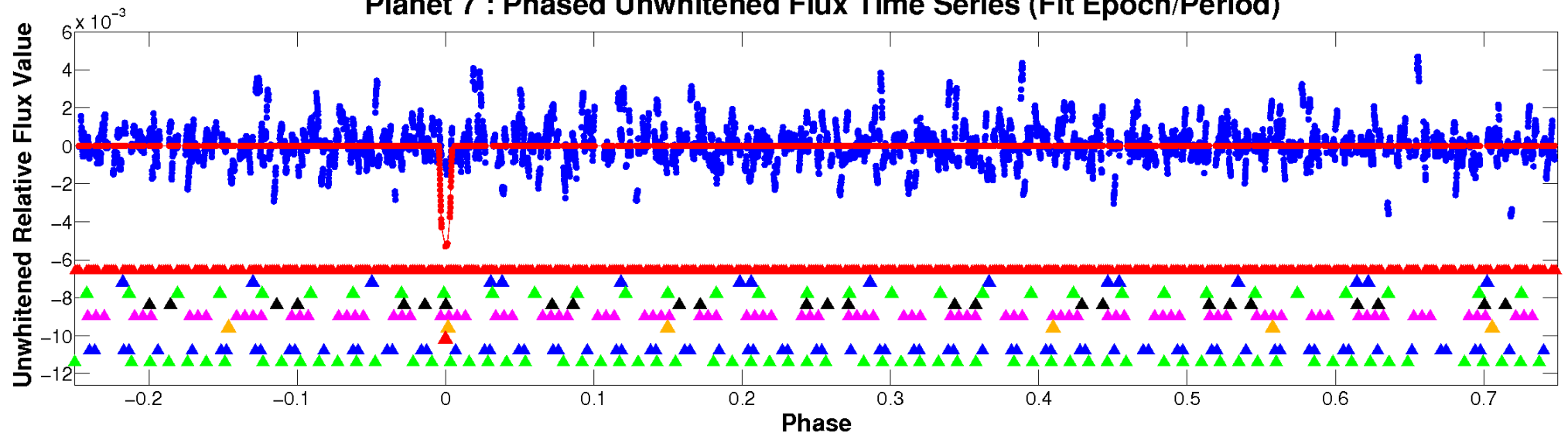


ALT Odd/Even

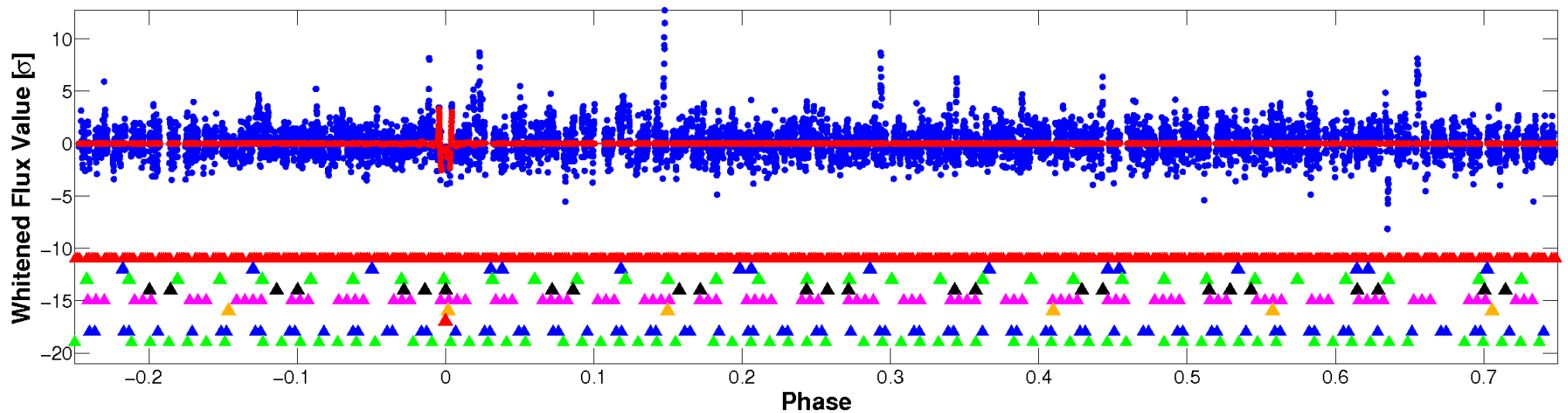
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

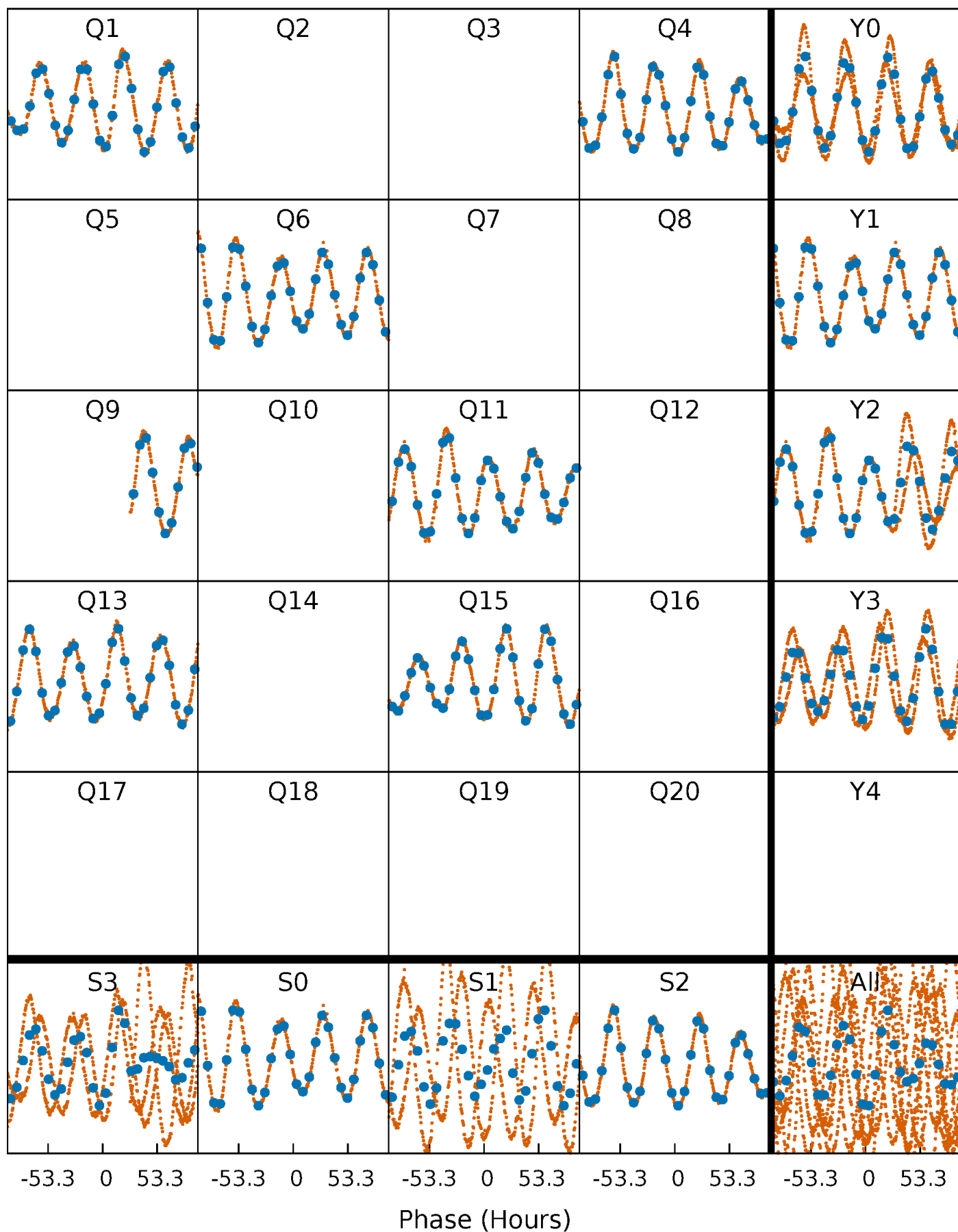


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



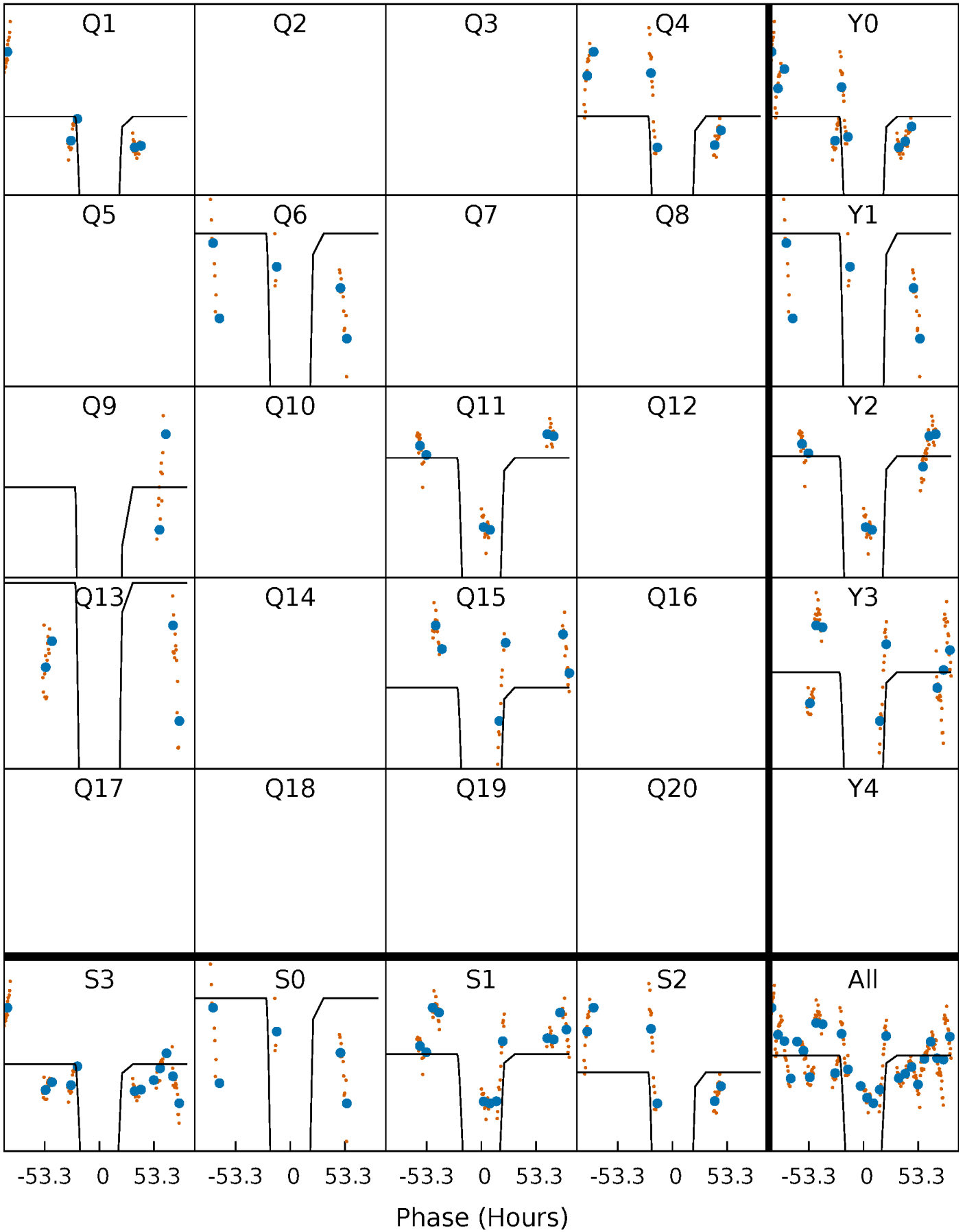
PDC Quarter-Phased Transit Curves

TCE 008750803-07 $P=215.867311$ Days $T_0=159.800698$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008750803-07 $P=215.867311$ Days $T_0=159.800698$ (BKJD)

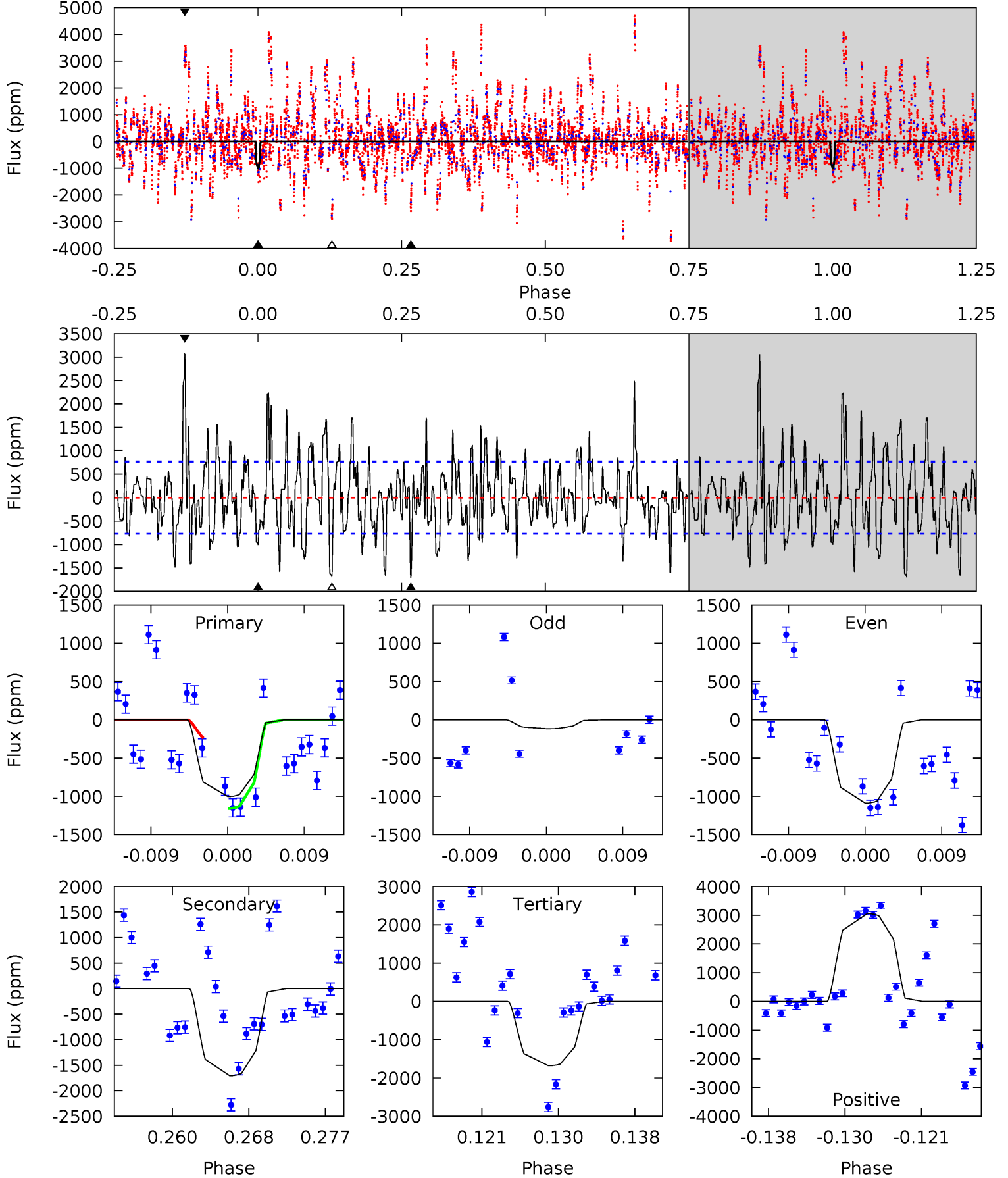


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008750803-07, P = 215.867311 Days, E = 159.800698 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.57	11.2	11.0	20.1	5.05	2.63	4.31	-4.45	-13.5	0.17	-8.88	2.97	1.01	0.64	2.97



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008750803

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1707 ± 153	$17.01^{+3.95}_{-3.62}$	668^{+55}_{-61}	5072^{+437}_{-329}	2147^{+1341}_{-717}
Alt.	N/A	N/A	N/A	N/A	N/A

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

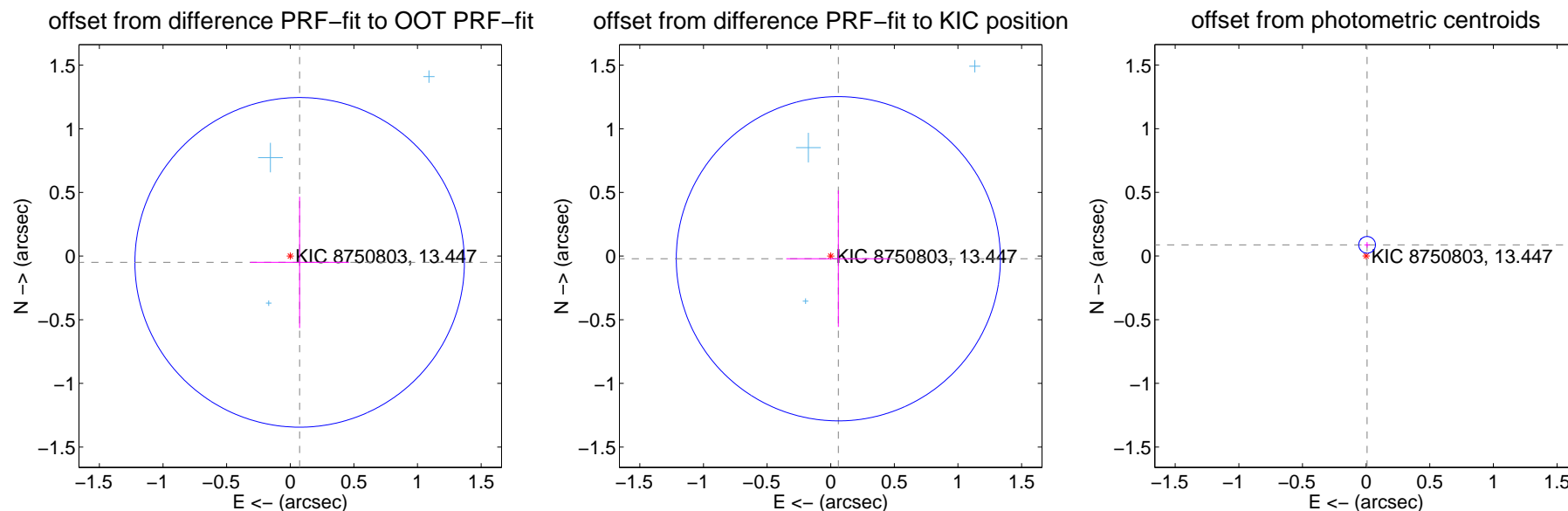
DV Centroid Data

Supplemental centroid analysis for 008750803-07. Kepler magnitude: 13.45. Transit SNR 11.27

There are 3 quarters with good PRF difference image offsets

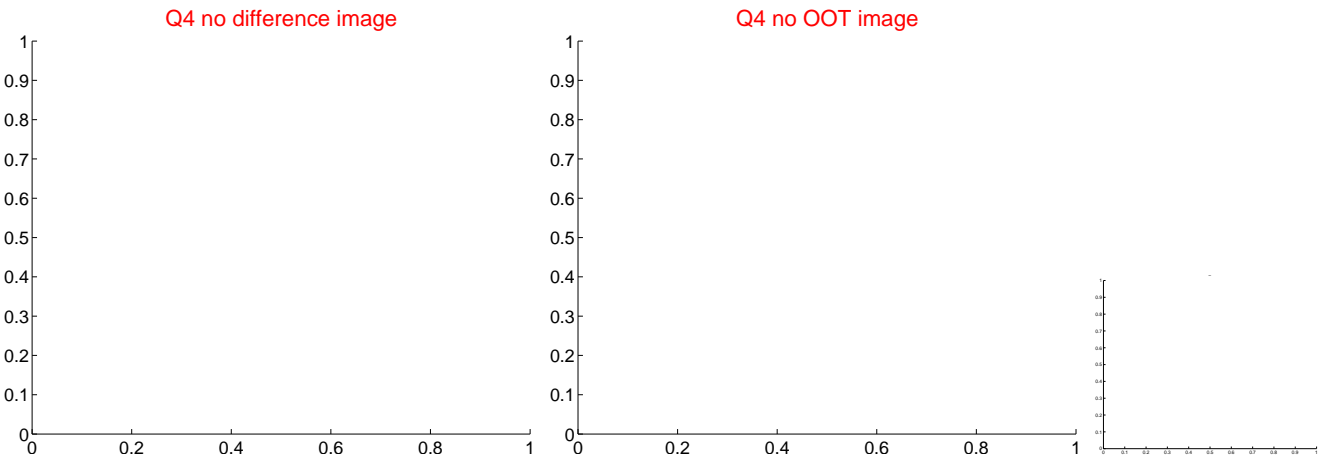
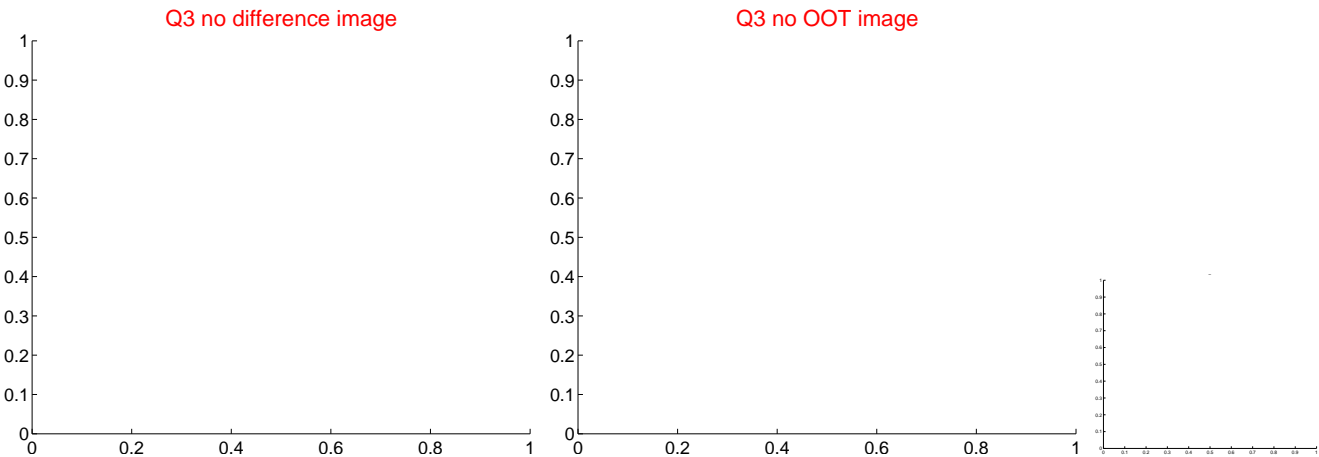
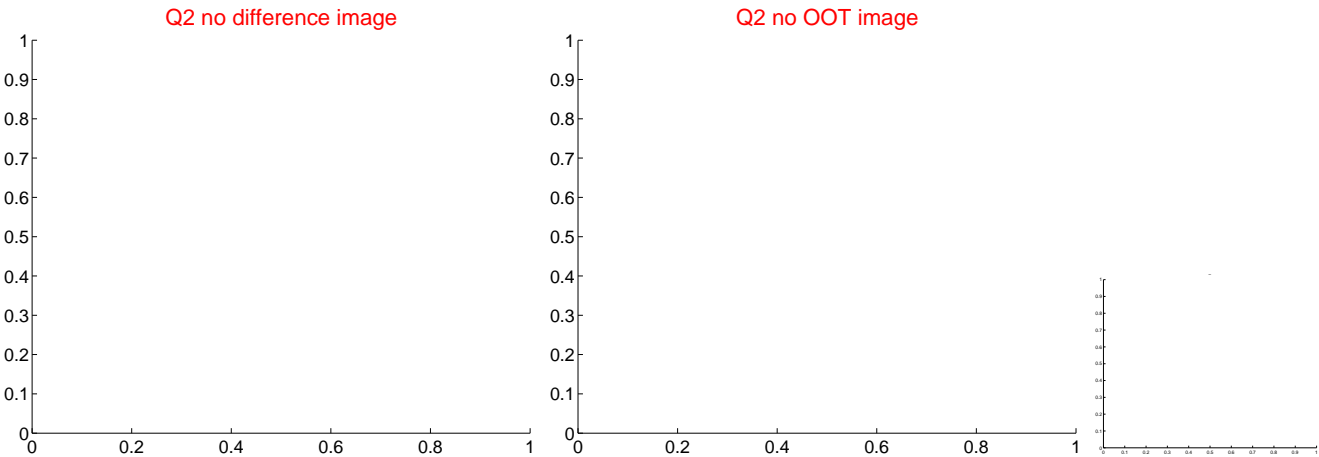
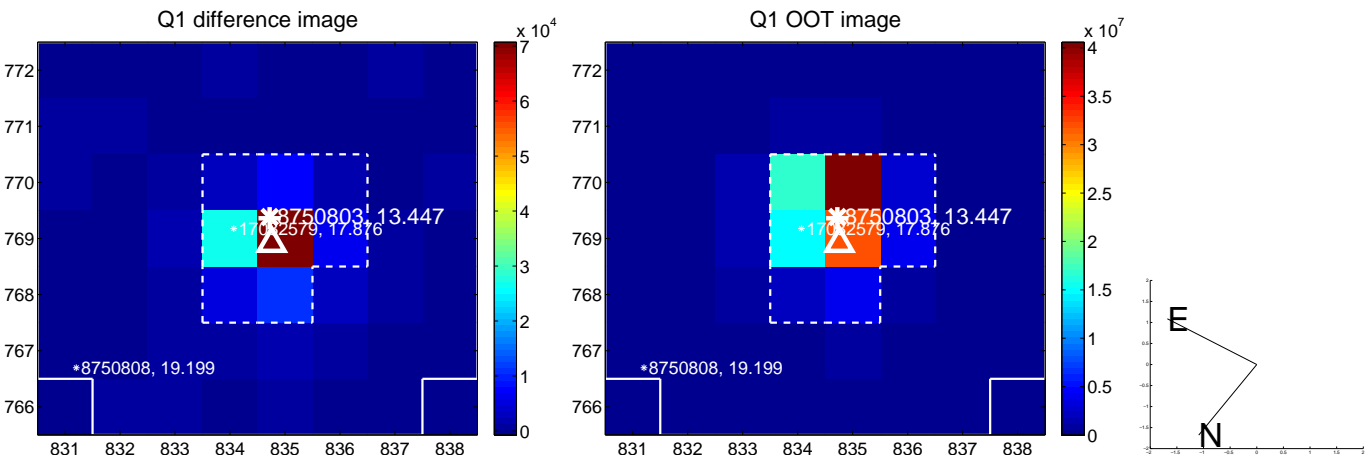
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.089 ± 0.432	0.21	-0.074 ± 0.388	-0.049 ± 0.516
PRF-fit source offset from KIC position	0.063 ± 0.425	0.15	-0.060 ± 0.409	-0.021 ± 0.536
photometric centroid source offset	0.09 ± 0.02	4.03	-0.01 ± 0.02	0.09 ± 0.02

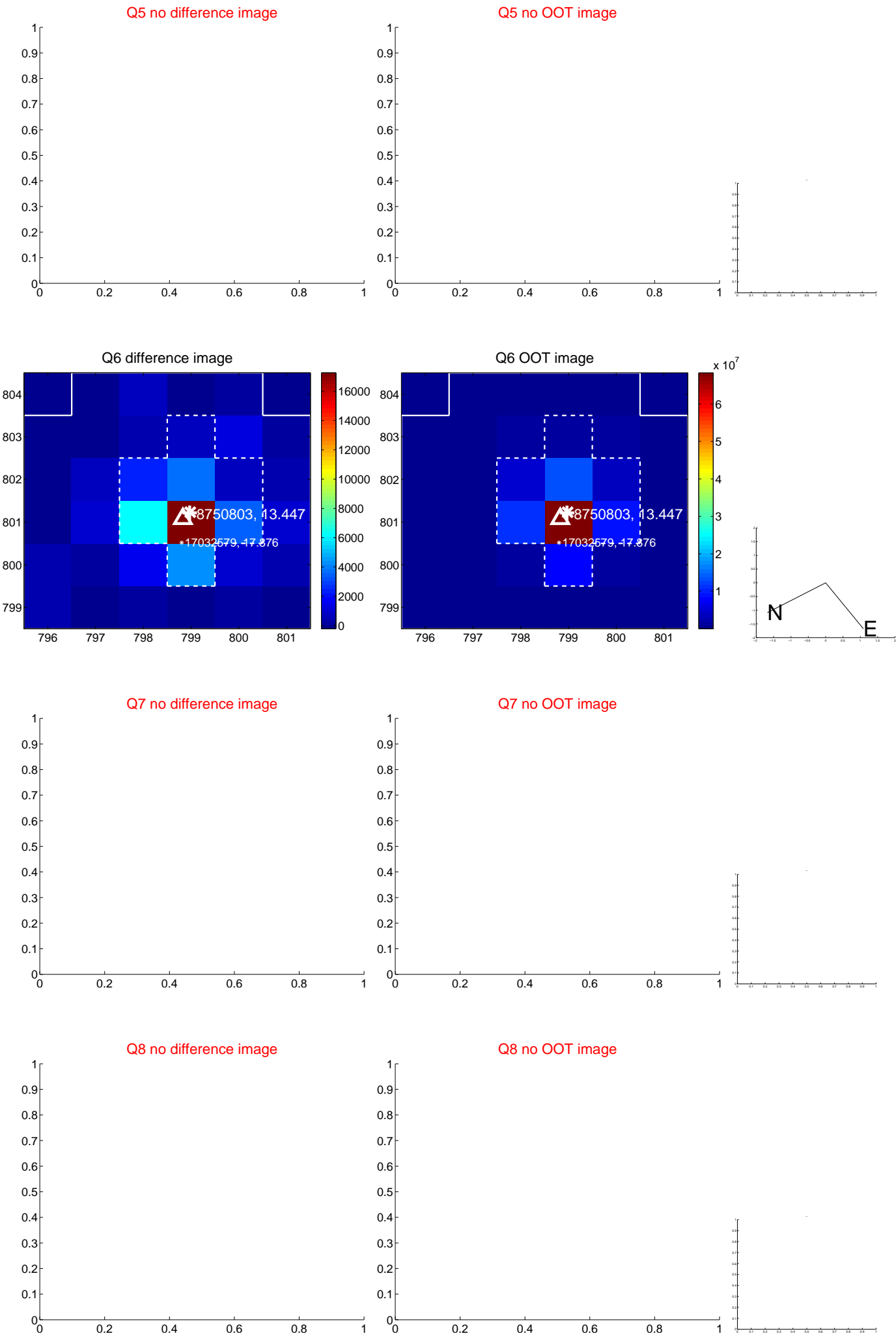


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

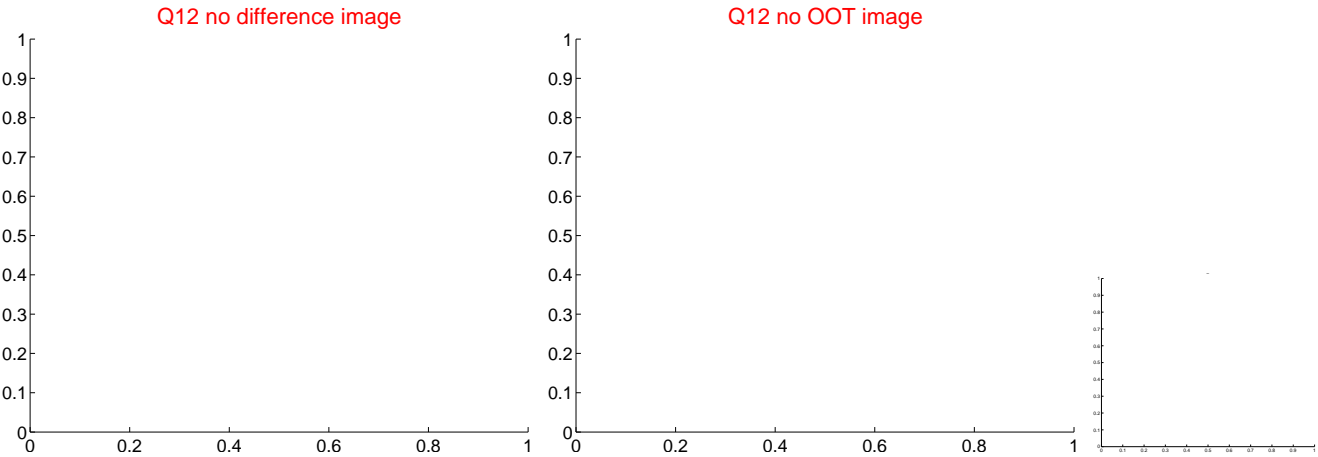
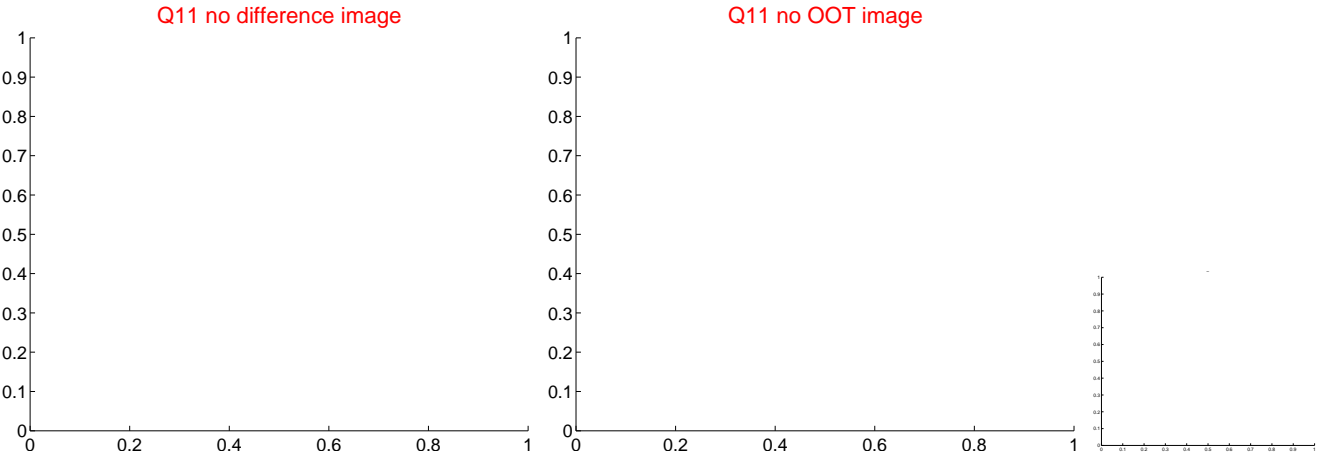
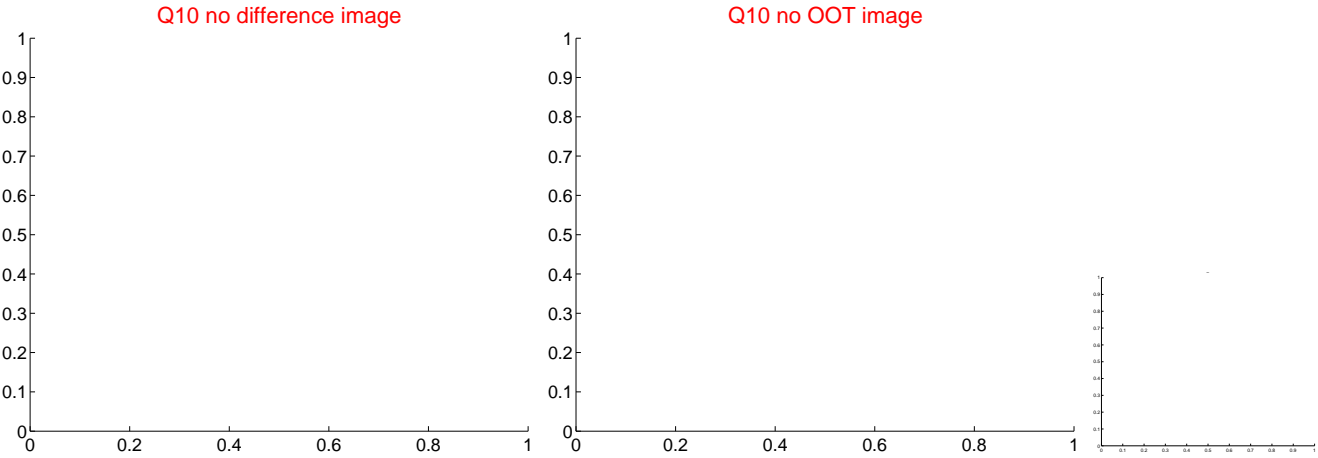
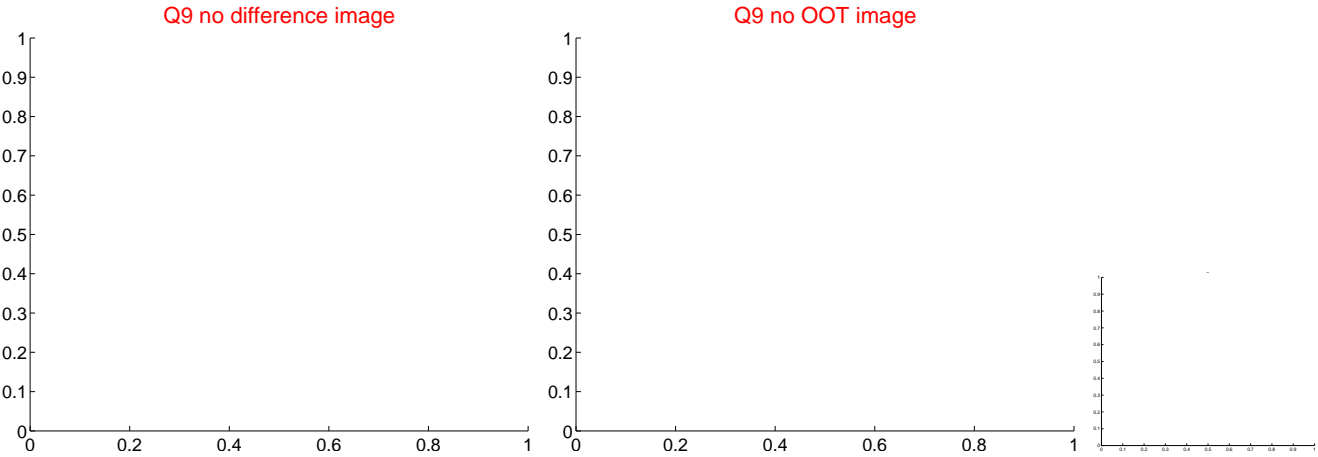
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



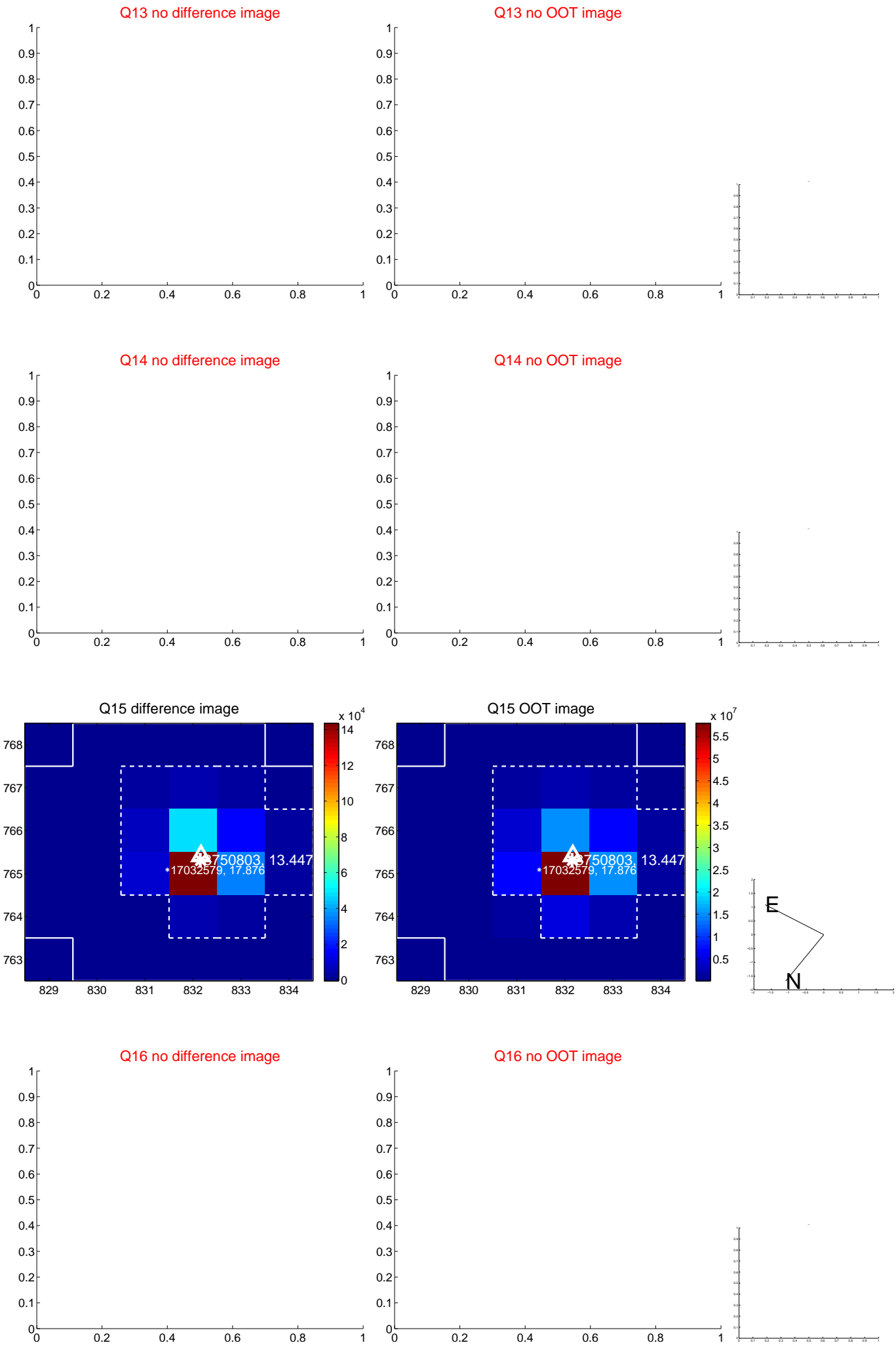
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



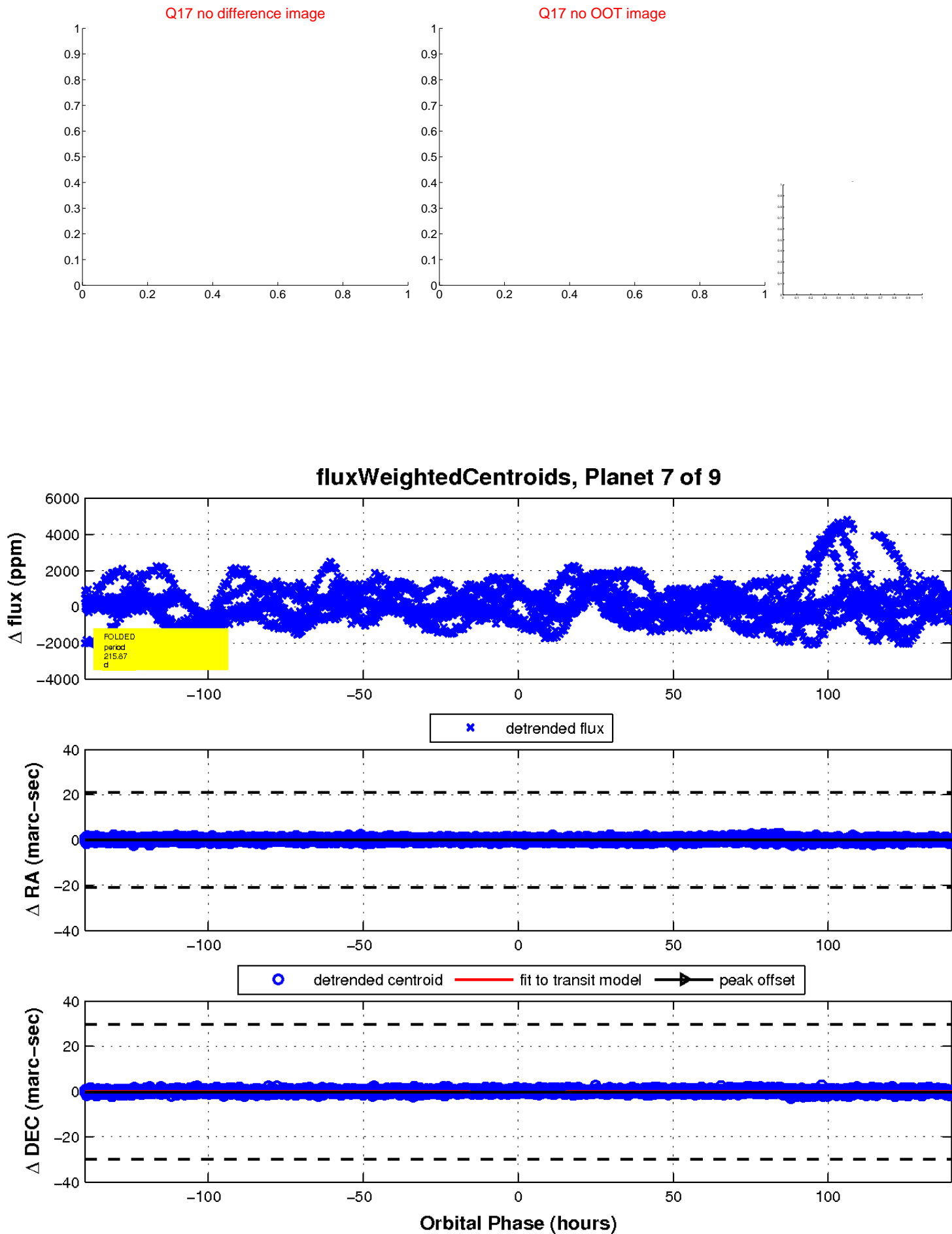
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

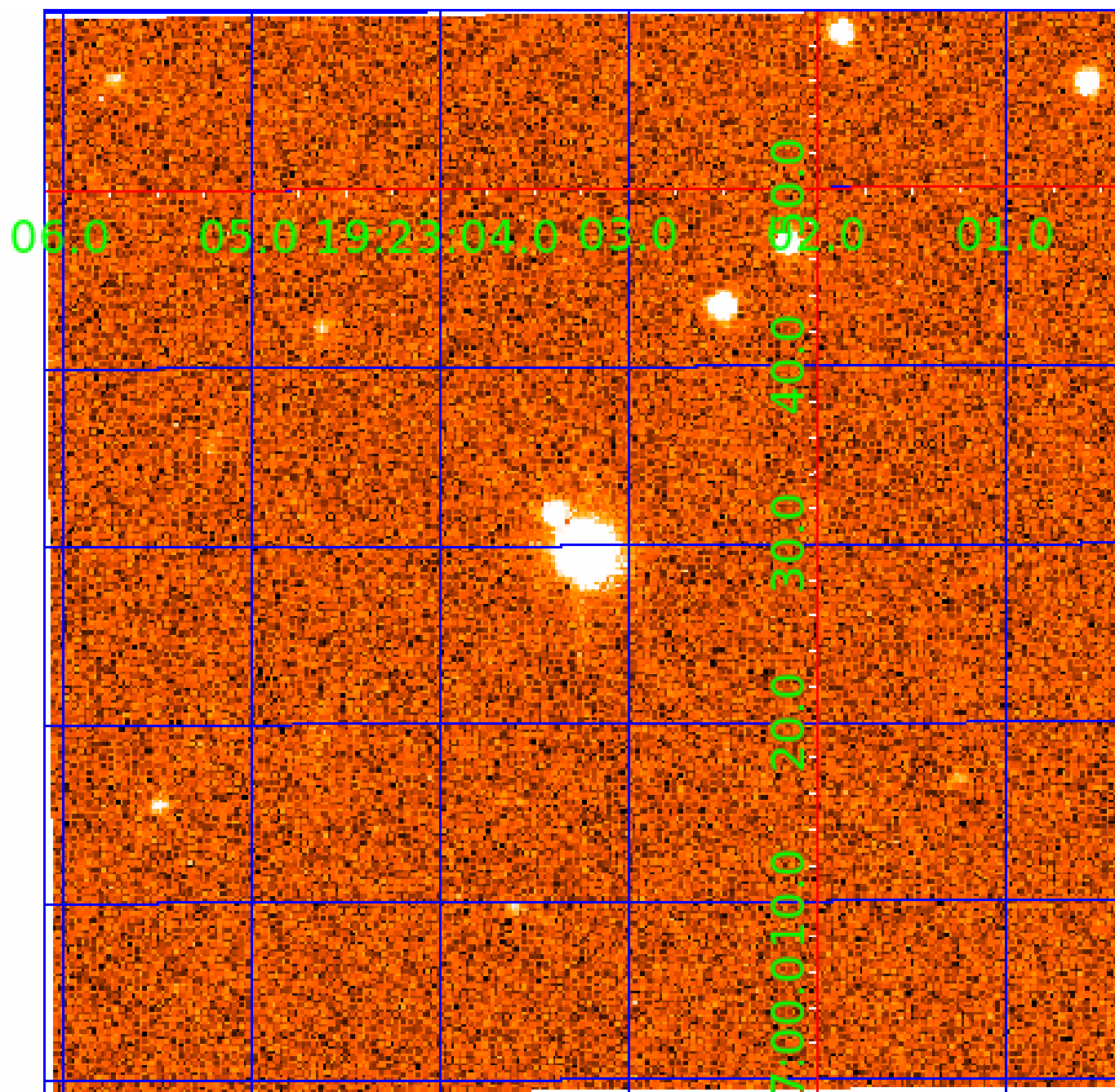


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

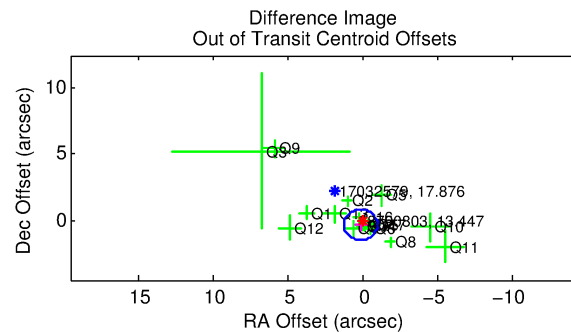
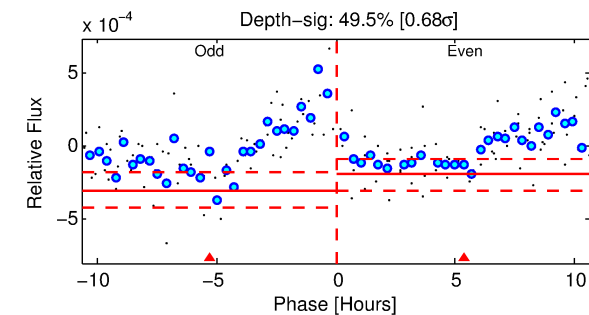
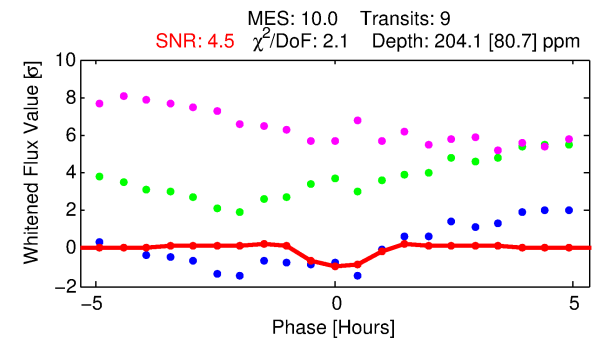
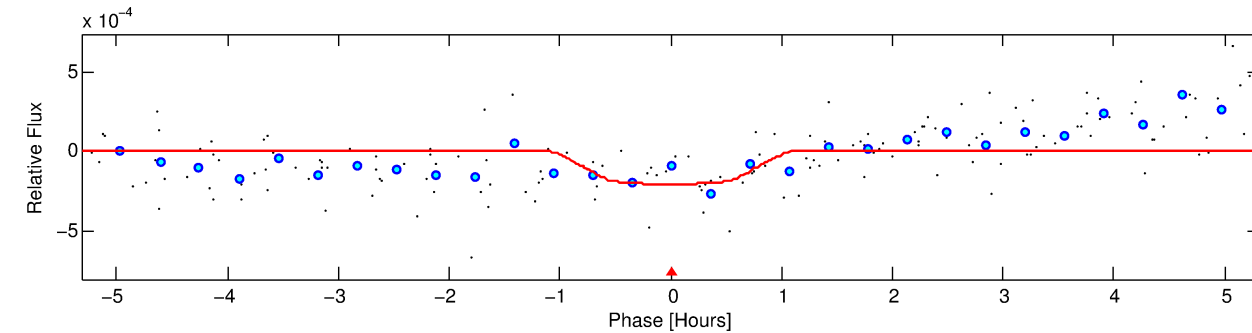
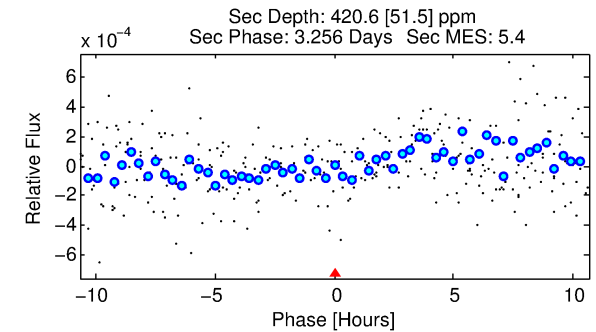
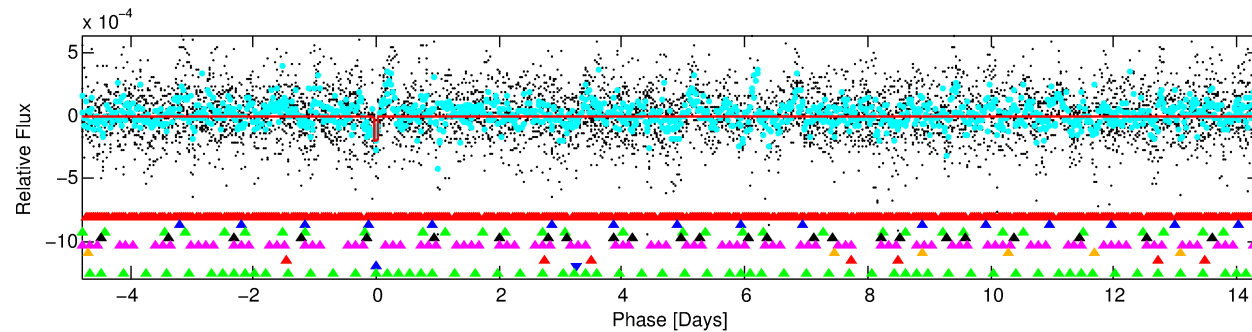
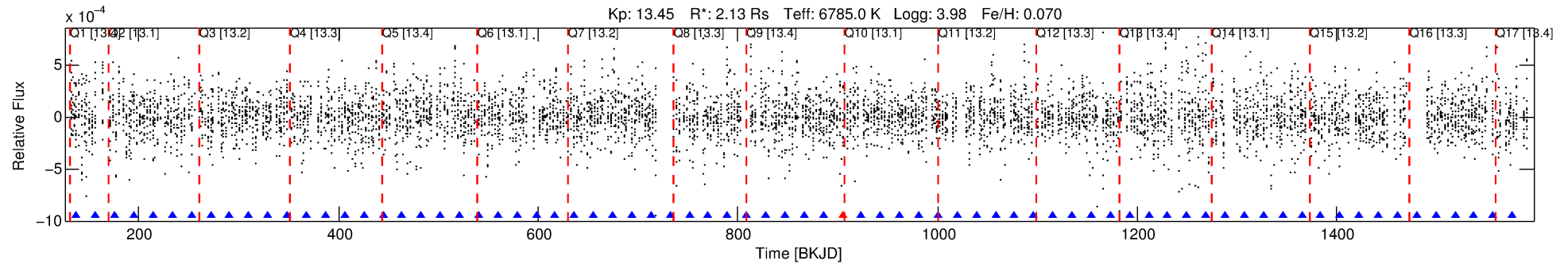
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-08

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 8 of 9 Period: 19.171 d



DV Fit Results:

Period = 19.17120 [0.00035] d
Epoch = 137.8861 [0.0155] BKJD
Rp/R* = 0.0153 [0.0275]
a/R* = 38.57 [414.32]
b = 0.90 [2.24]
Seff = 323.05 [157.63]
Teq = 1081 [132] K
Rp = 3.55 [6.51] Re
a = 0.1630 [0.0496] AU
Ag = 487.45 [1769.20] [0.27σ]
Teffp = 7854 [7077] K [0.96σ]

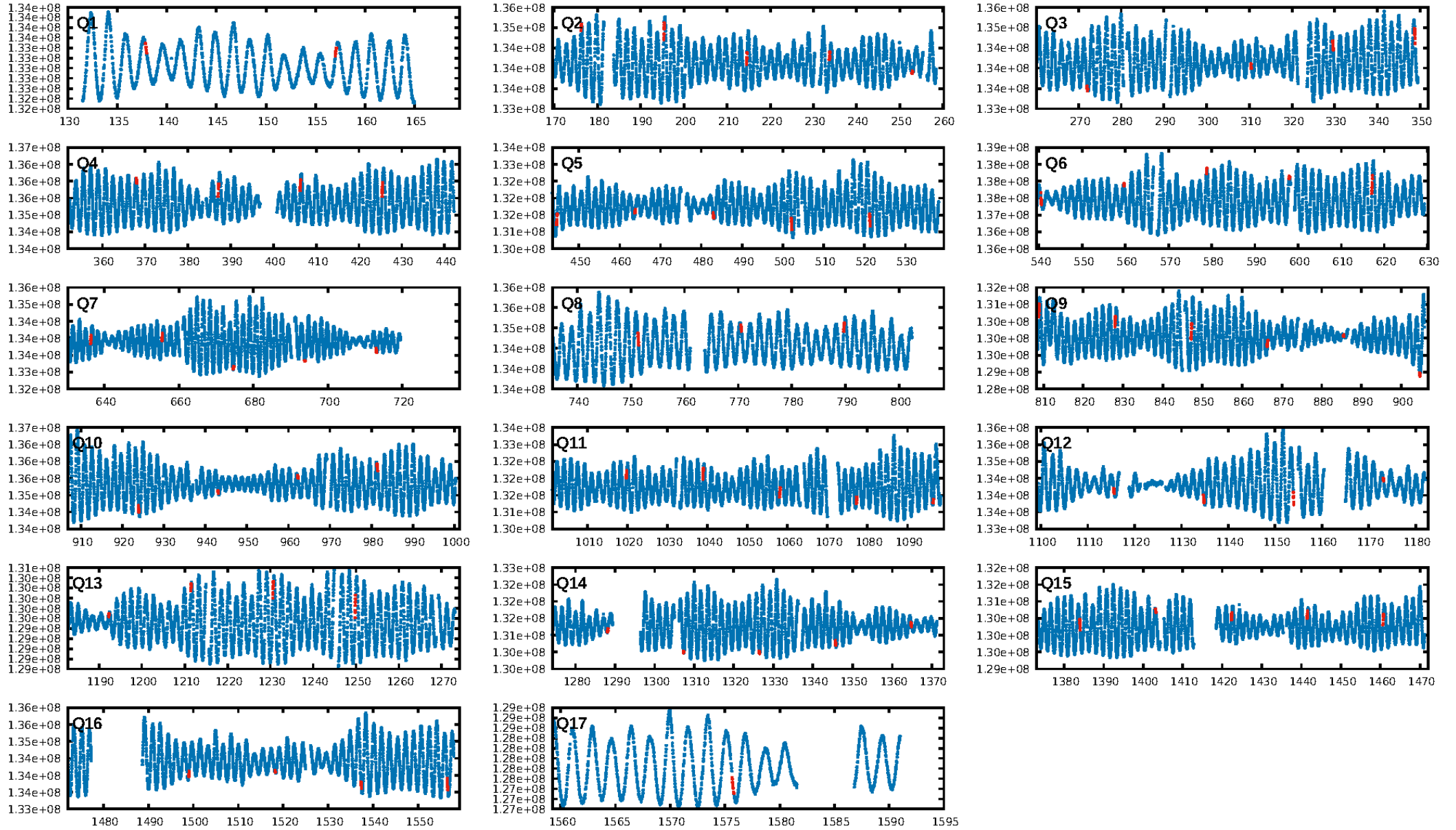
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [41.05σ]
LongPeriod-sig: 81.8% [1.33σ]
ModelChiSquare2-sig: 19.1%
ModelChiSquareGof-sig: 98.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.89 [8/9]
GhostDiagnostic-chr: -0.1235
Centroid-sig: 7.4%
Centroid-so: 0.645 arcsec [0.99σ]
OotOffset-rm: 0.333 arcsec [0.87σ]
KicOffset-rm: 0.283 arcsec [0.74σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.29 [5/17]
DiffImageOverlap-fno: 0.88 [15/17]

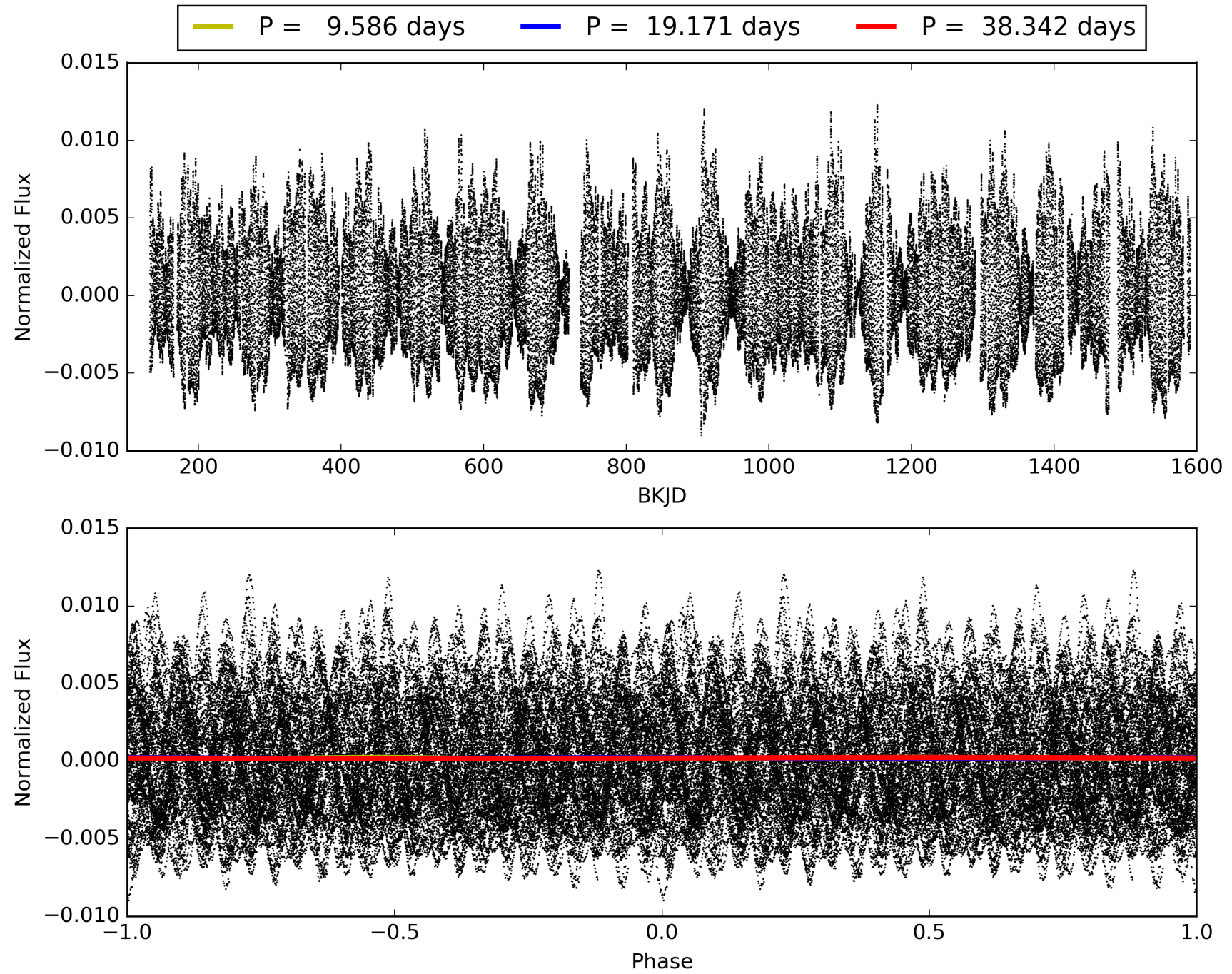
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:33:17 Z

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

TCE 008750803-08, PDC Light Curves

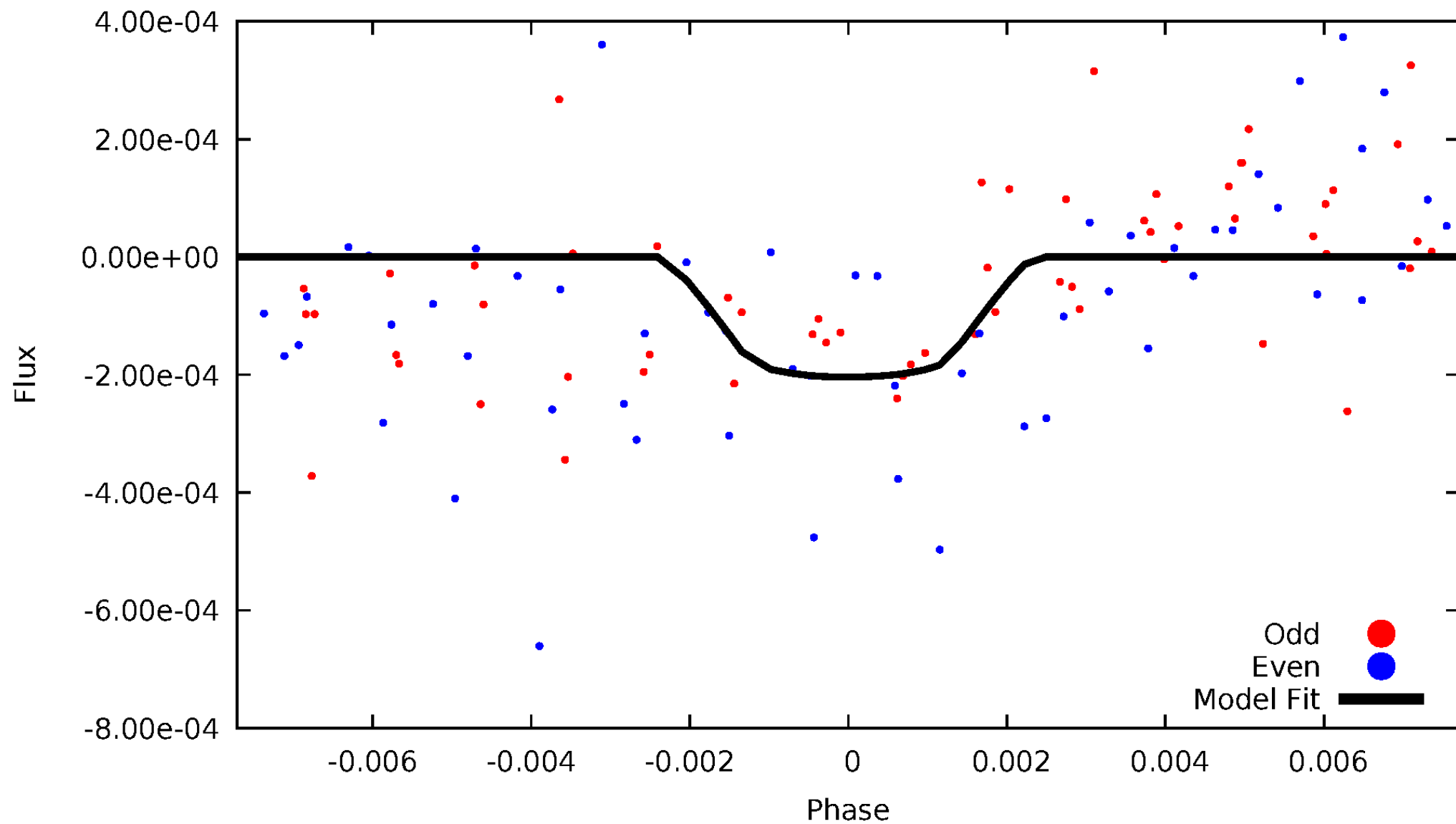


TCE 008750803-08



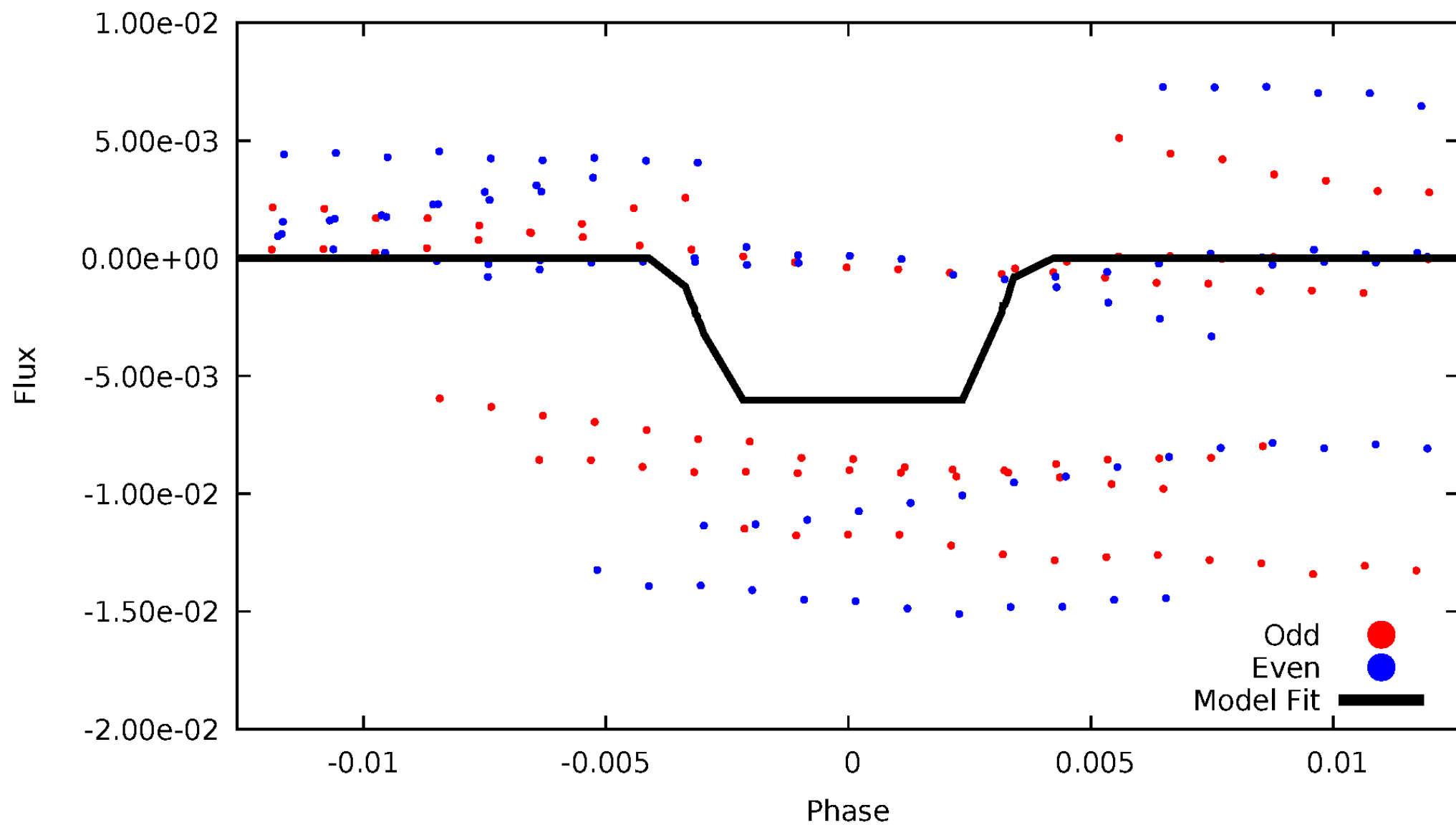
DV Odd/Even

TCE 008750803-08



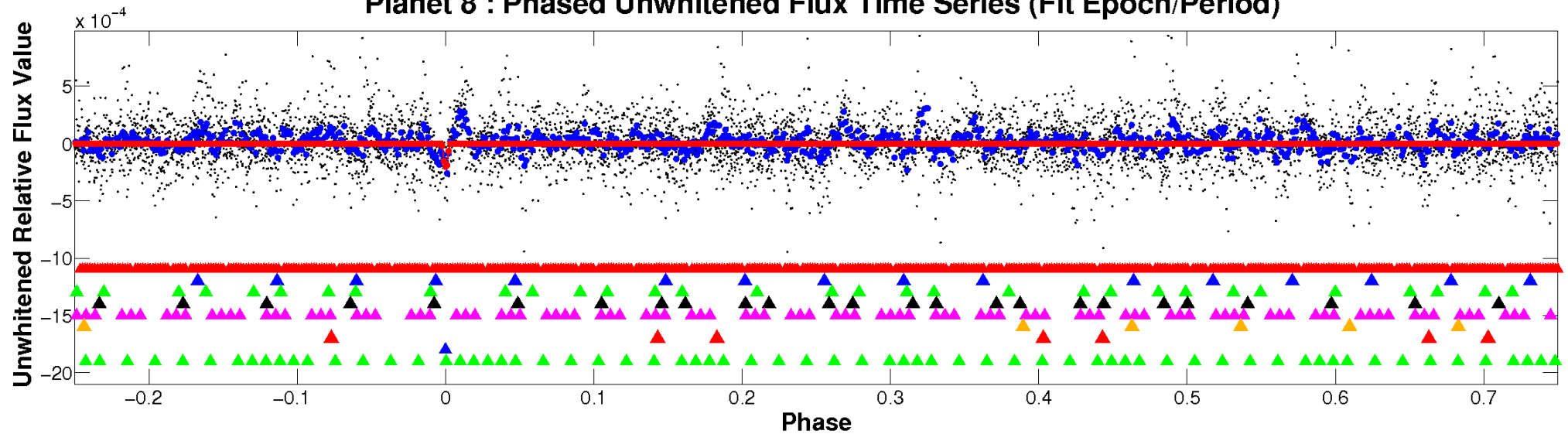
ALT Odd/Even

TCE 008750803-08

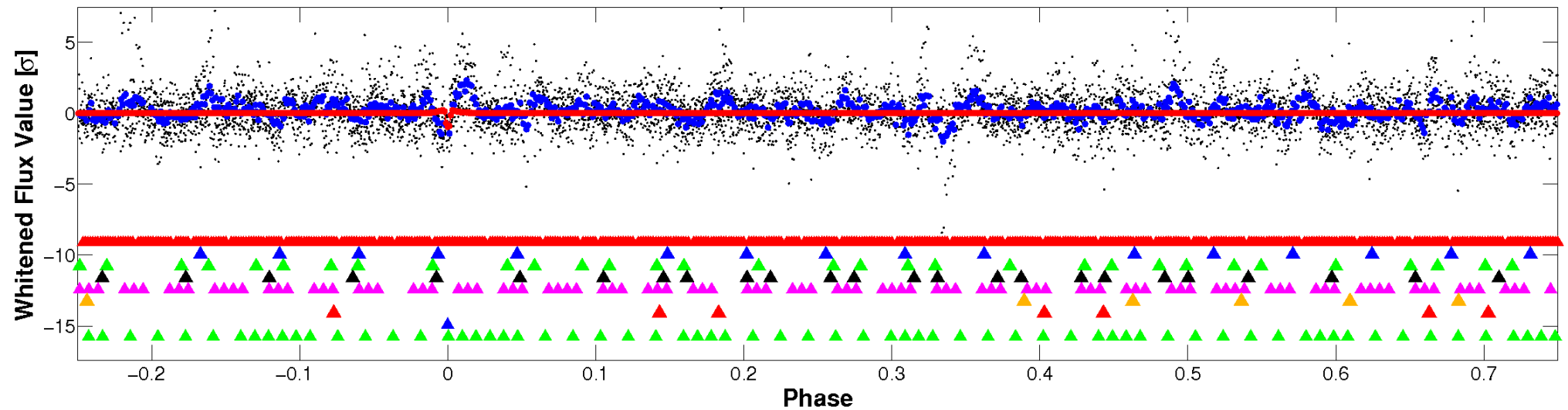


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

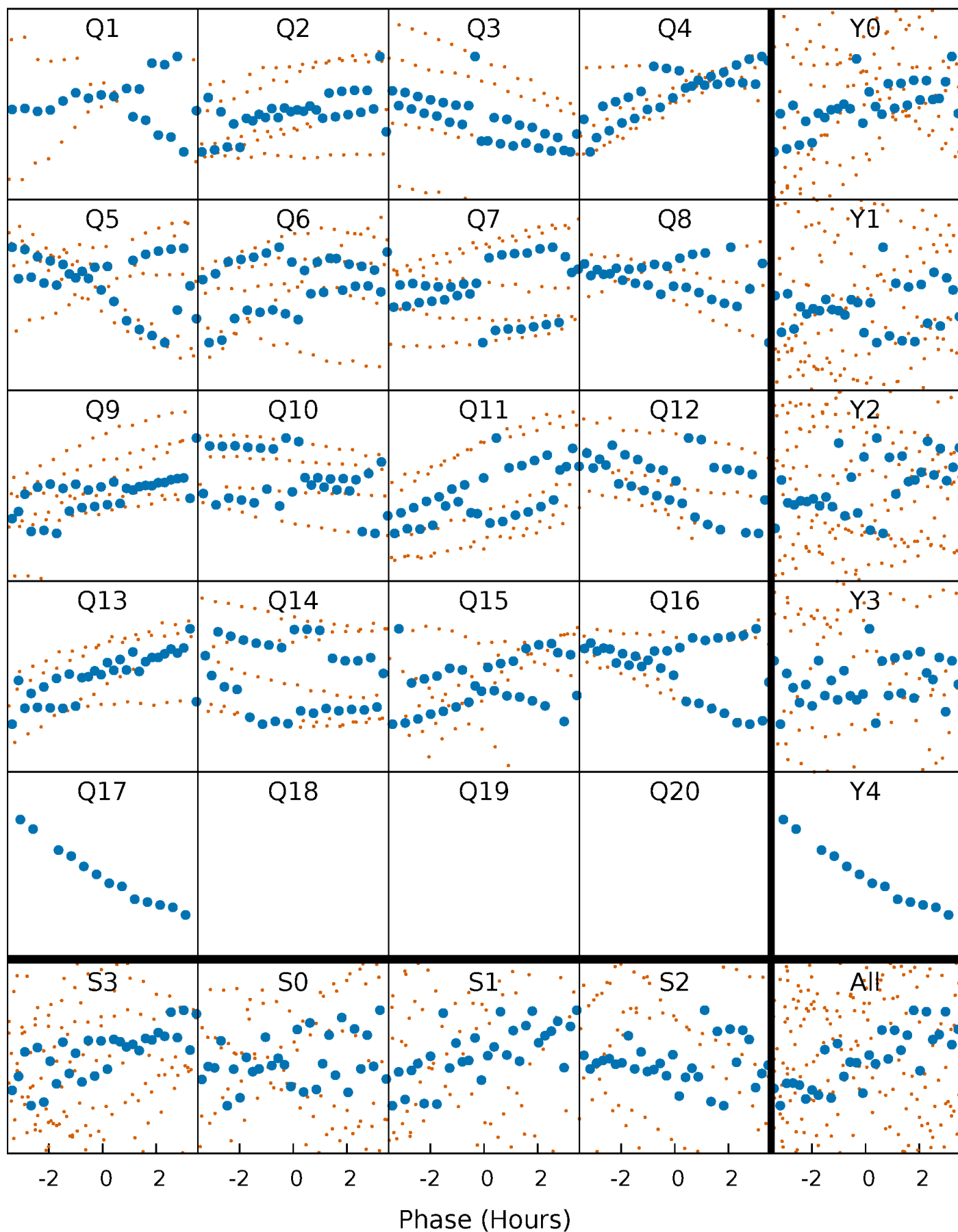


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



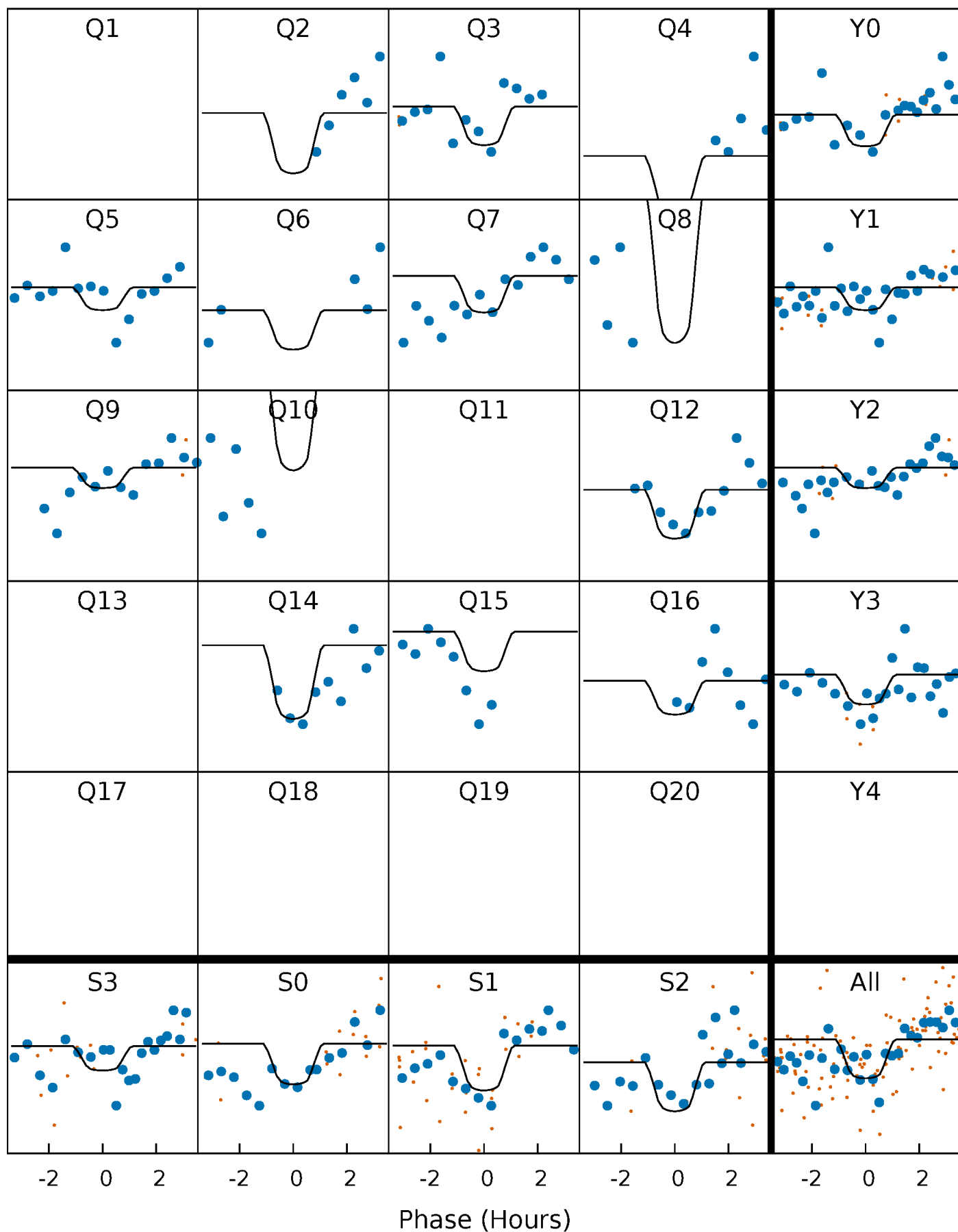
PDC Quarter-Phased Transit Curves

TCE 008750803-08 P= 19.171204 Days $T_0=137.886065$ (BKJD)



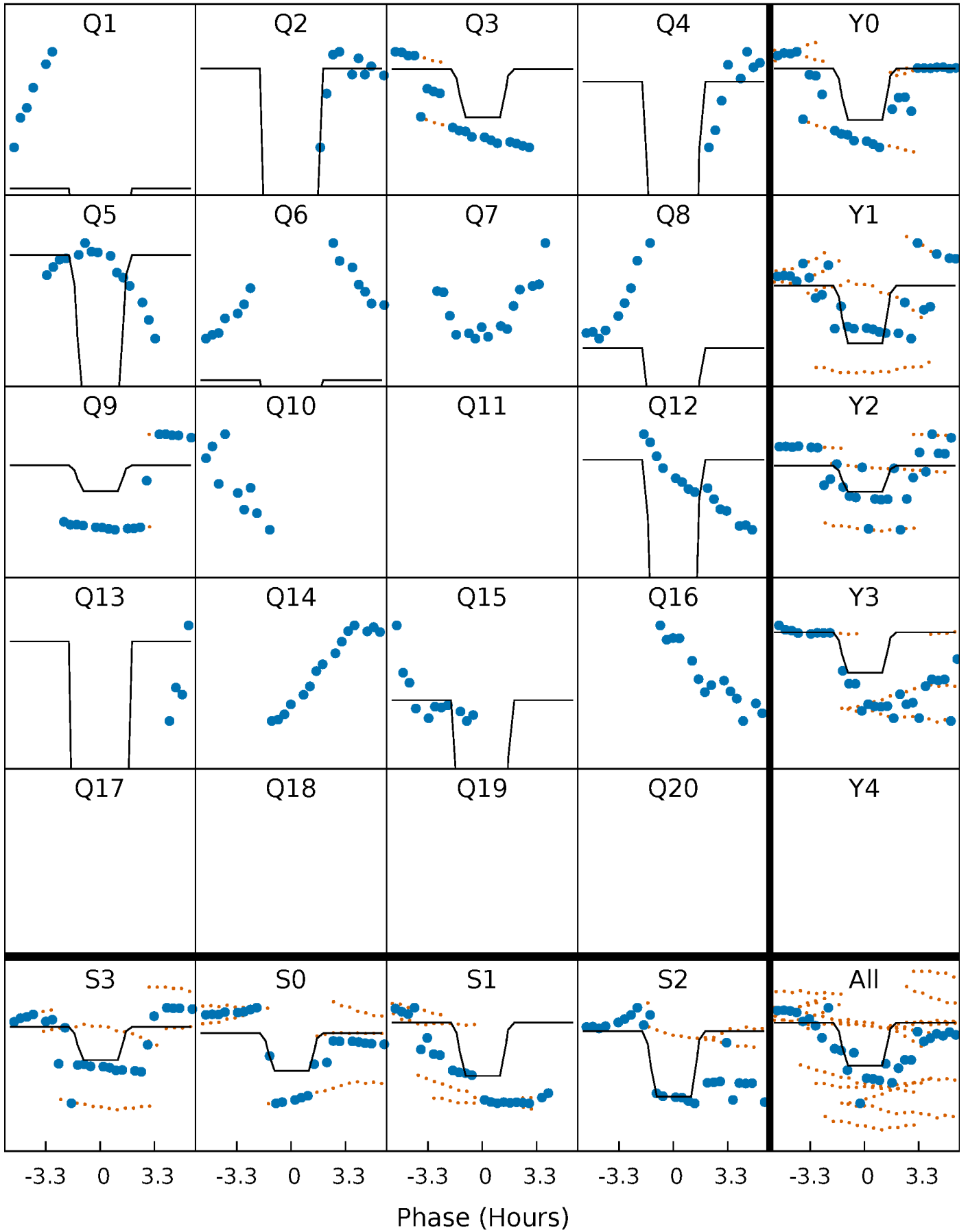
DV Quarter-Phased Transit Curves

TCE 008750803-08 P= 19.171204 Days $T_0=137.886065$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

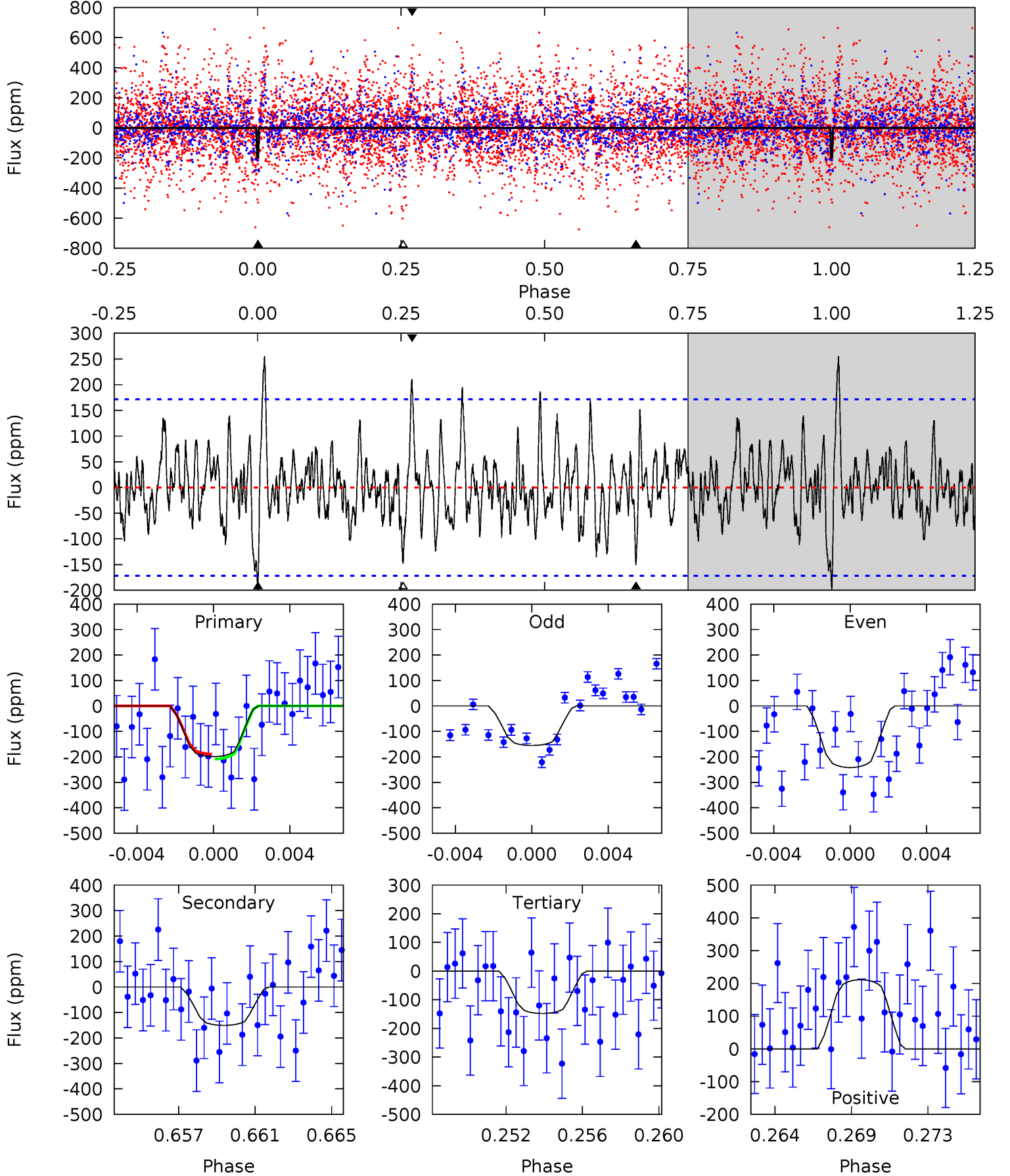
TCE 008750803-08 P= 19.172266 Days $T_0=137.847654$ (BKJD)



DV Model-Shift Uniqueness Test

008750803-08, $P = 19.171204$ Days, $E = 118.714861$ Days

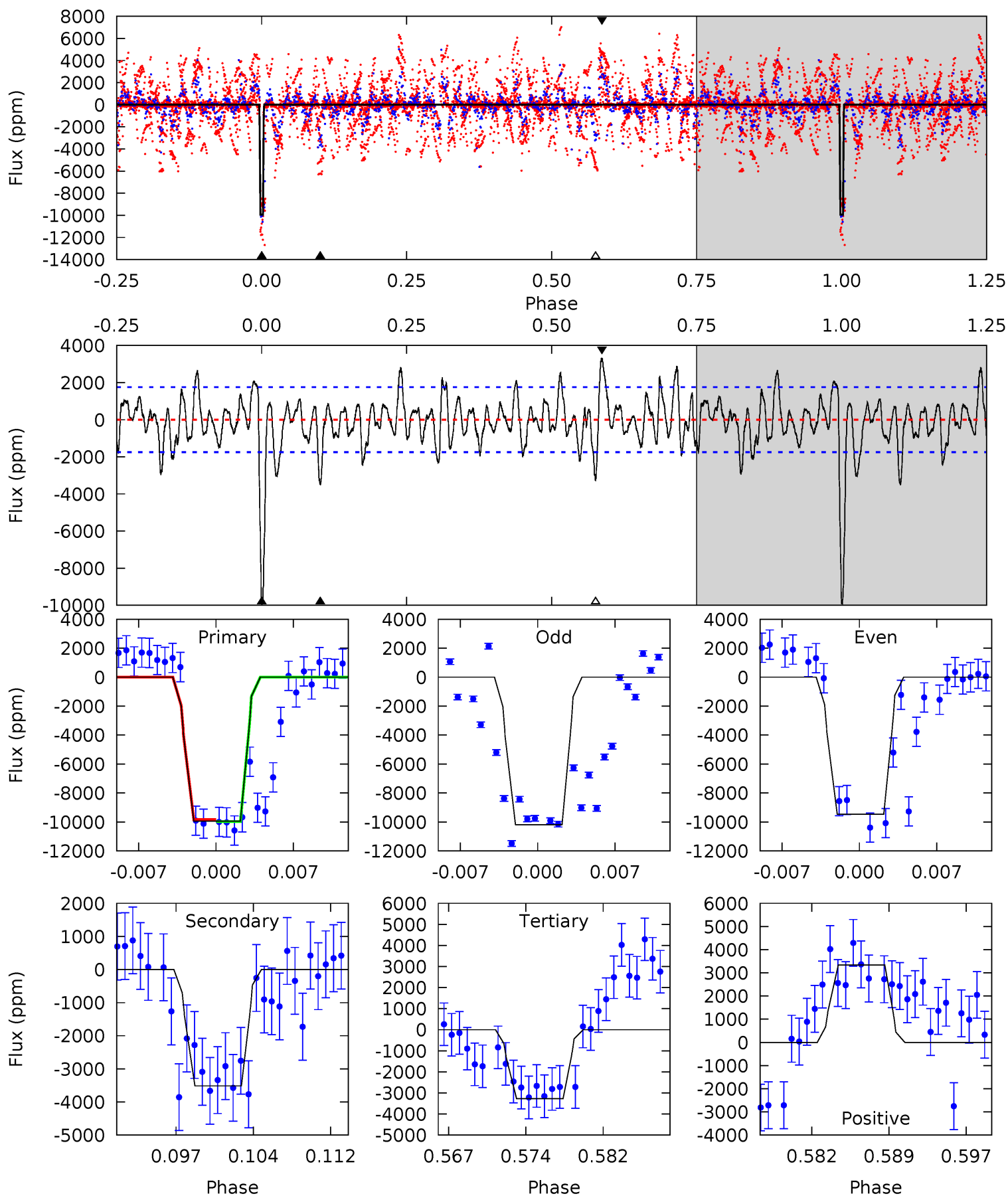
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.01	4.55	4.47	6.38	5.19	2.86	1.76	1.55	-0.37	0.08	-1.83	1.30	1.18	0.56	0.30



Alt Model-Shift Uniqueness Test

008750803-08, P = 19.172266 Days, E = 118.675388 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.8	10.2	9.50	9.69	5.08	2.68	2.98	19.3	19.1	0.70	0.51	1.08	0.78	0.25	0.20



Stellar Parameters For KIC 008750803

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-150 ± 33	$5.41^{+6.03}_{-3.52}$	1501^{+119}_{-129}	4853^{+3585}_{-1116}	68^{+550}_{-52}
Alt.	-3517 ± 345	$17.35^{+8.32}_{-6.88}$	1495^{+125}_{-126}	5955^{+1620}_{-910}	172^{+273}_{-93}

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

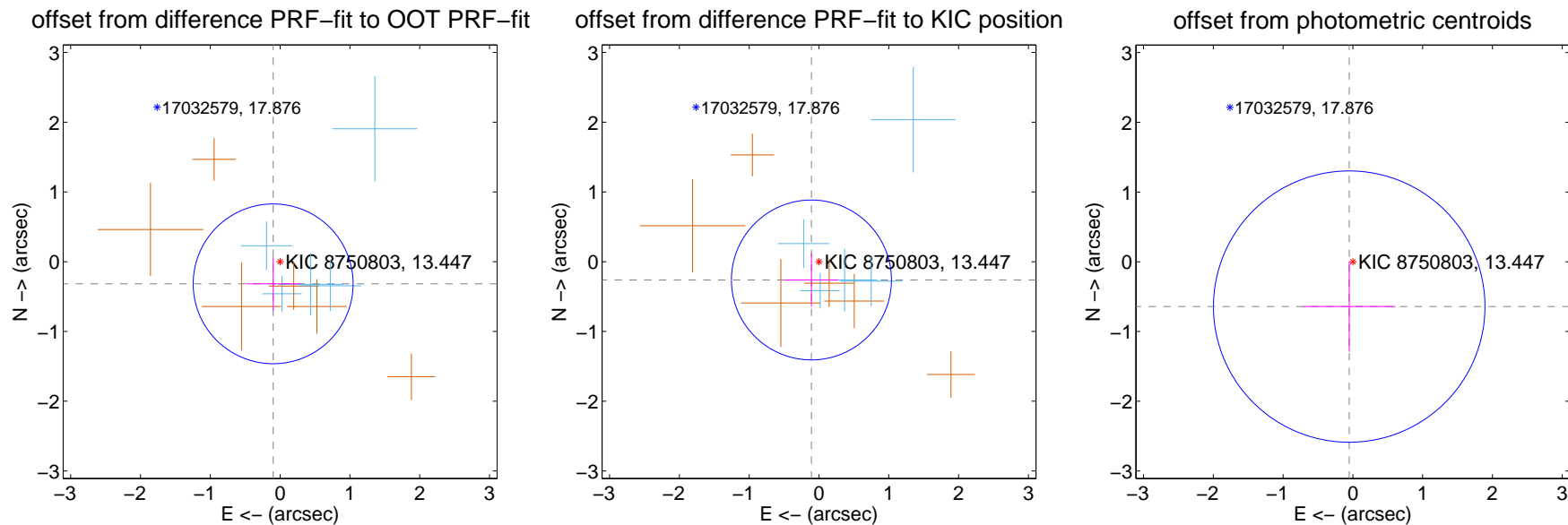
DV Centroid Data

Supplemental centroid analysis for 008750803-08. Kepler magnitude: 13.45. Transit SNR 4.51

There are 5 quarters with good PRF difference image offsets

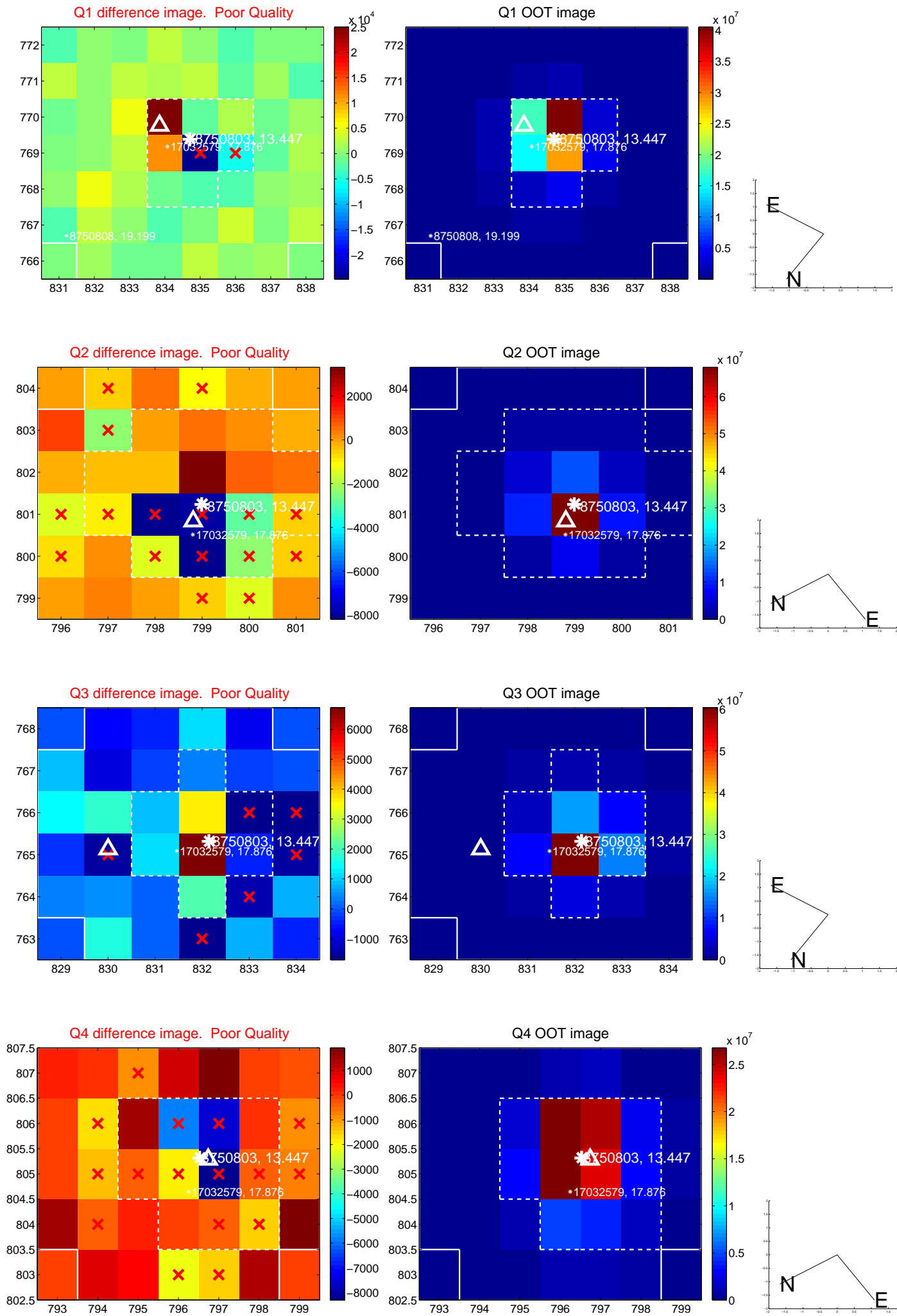
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.333 ± 0.382	0.87	0.100 ± 0.386	-0.317 ± 0.381
PRF-fit source offset from KIC position	0.283 ± 0.382	0.74	0.108 ± 0.386	-0.262 ± 0.381
photometric centroid source offset	0.64 ± 0.65	0.99	0.05 ± 0.66	-0.64 ± 0.65

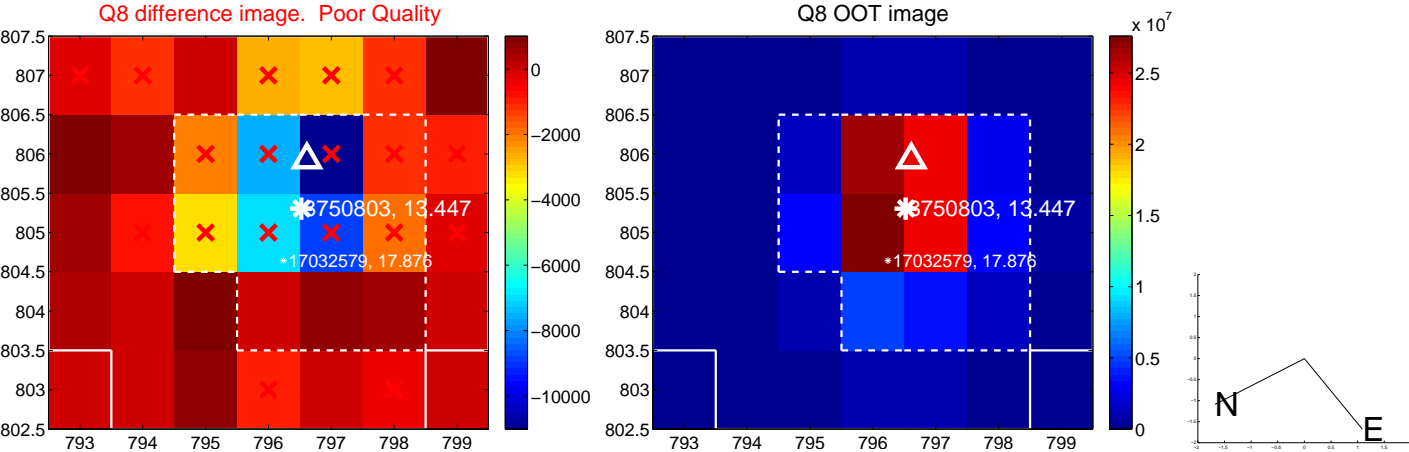
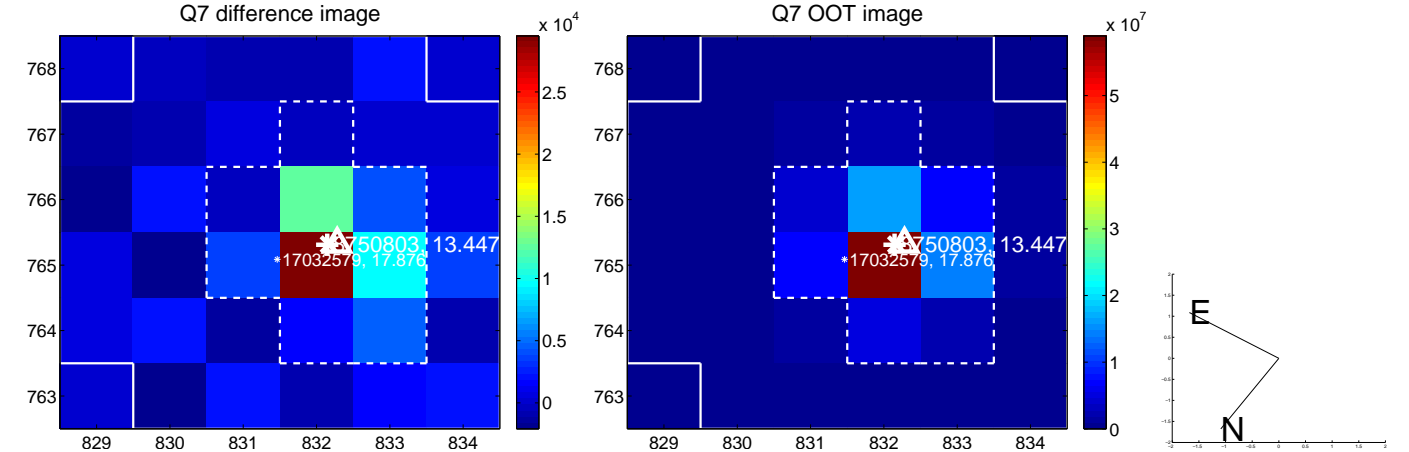
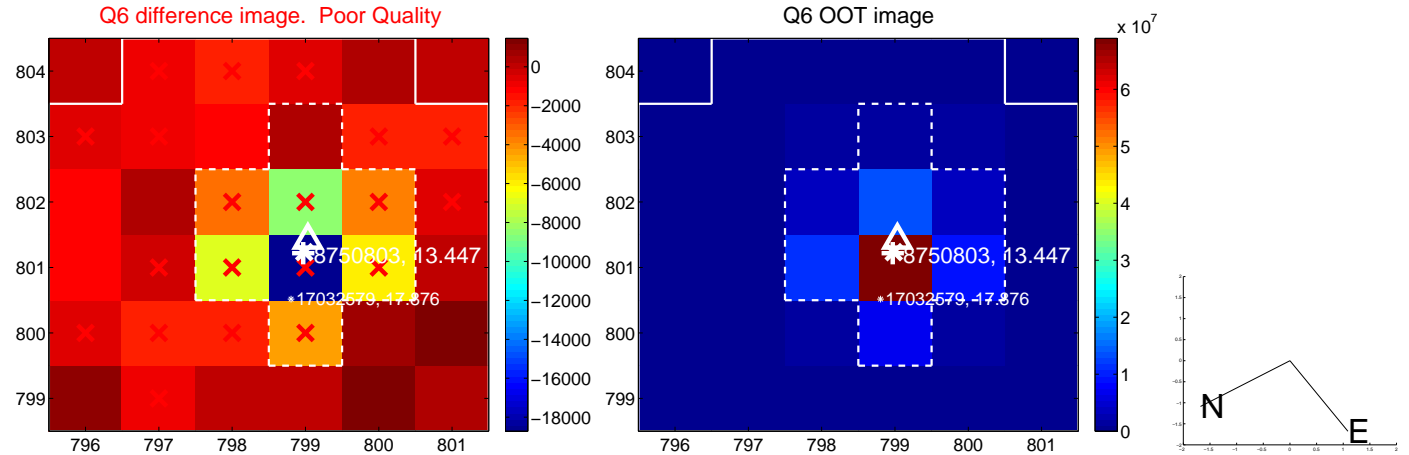
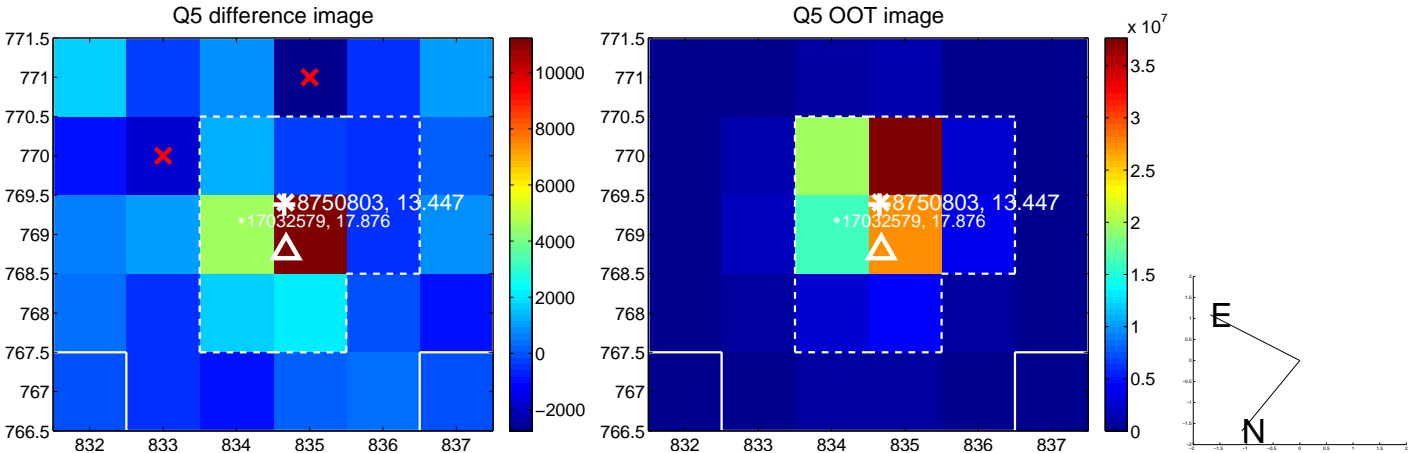


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

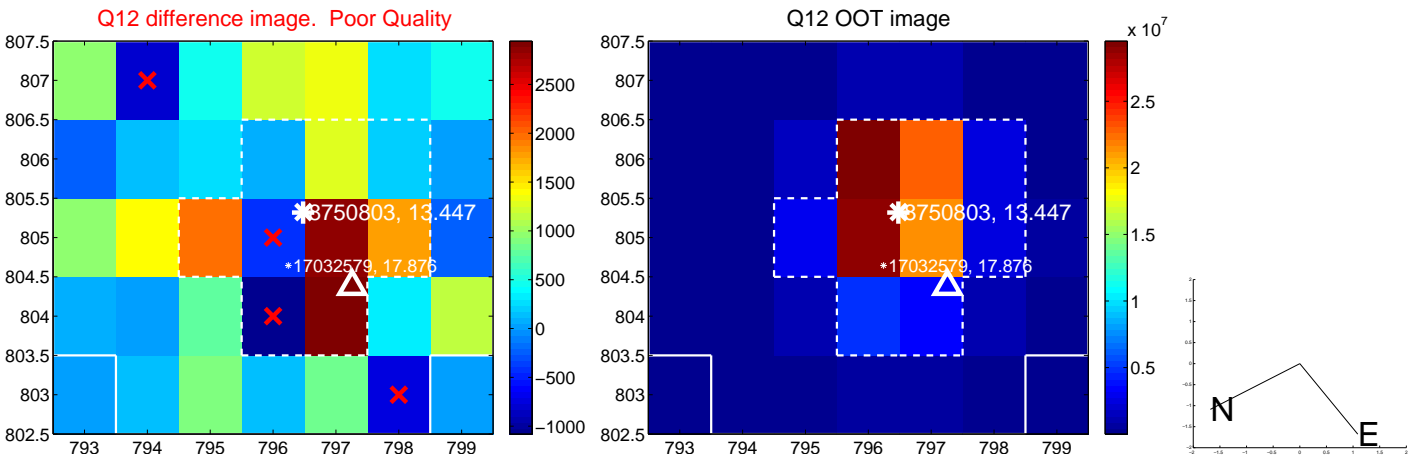
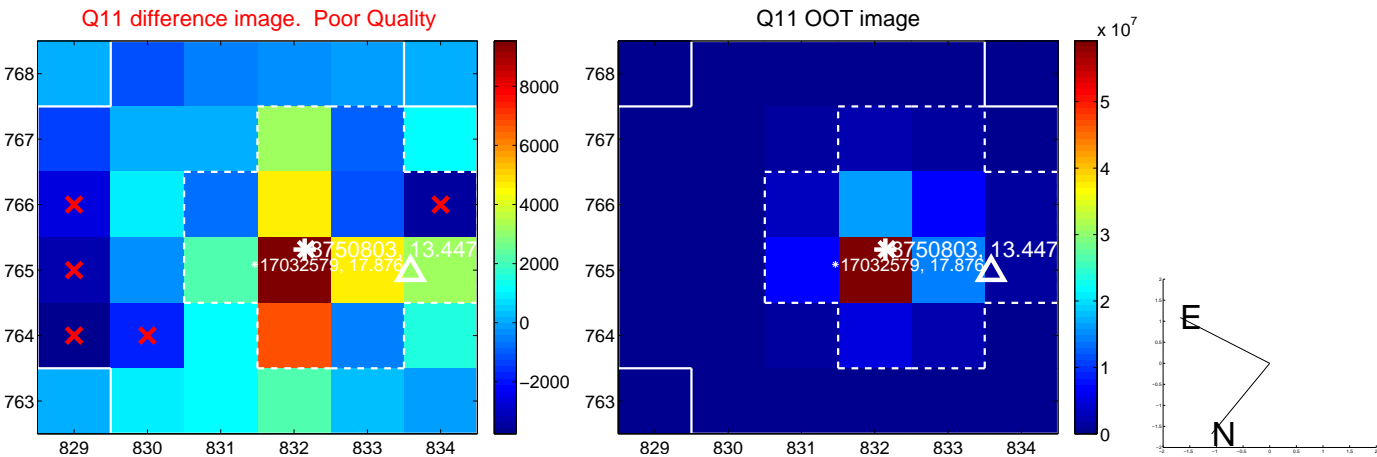
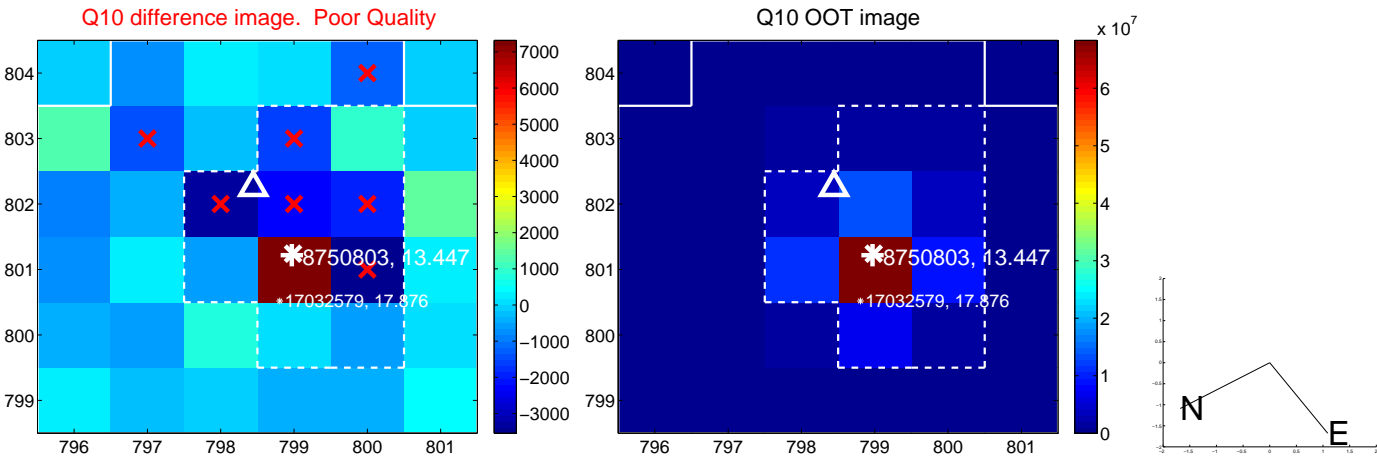
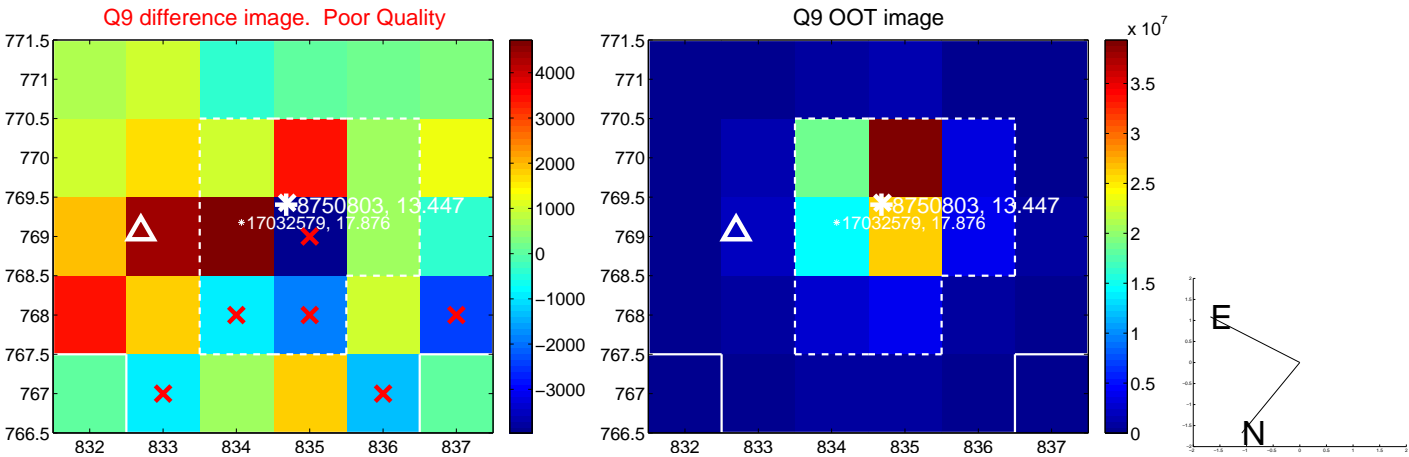
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



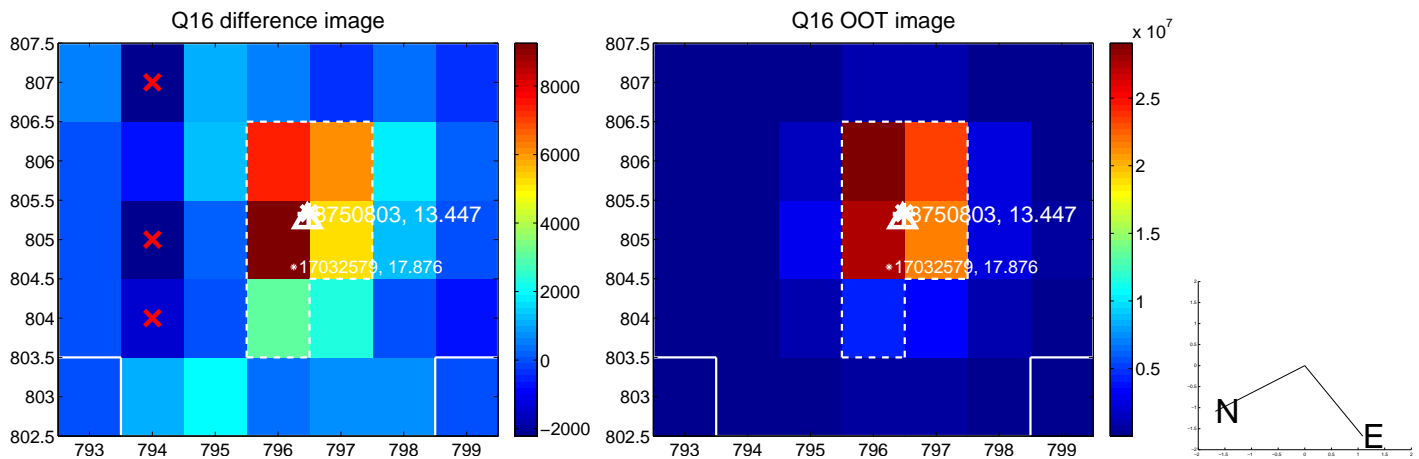
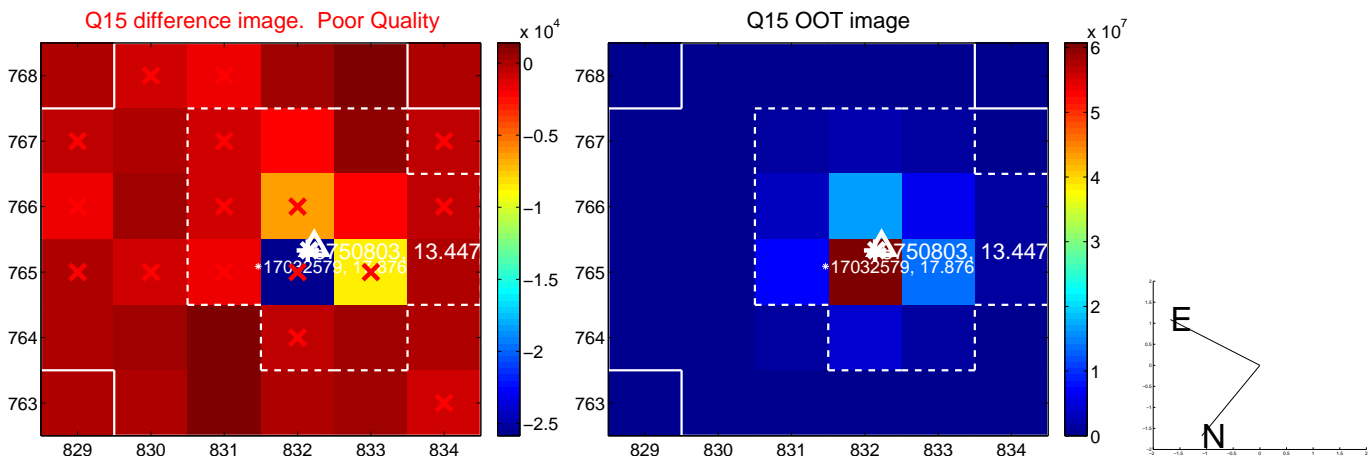
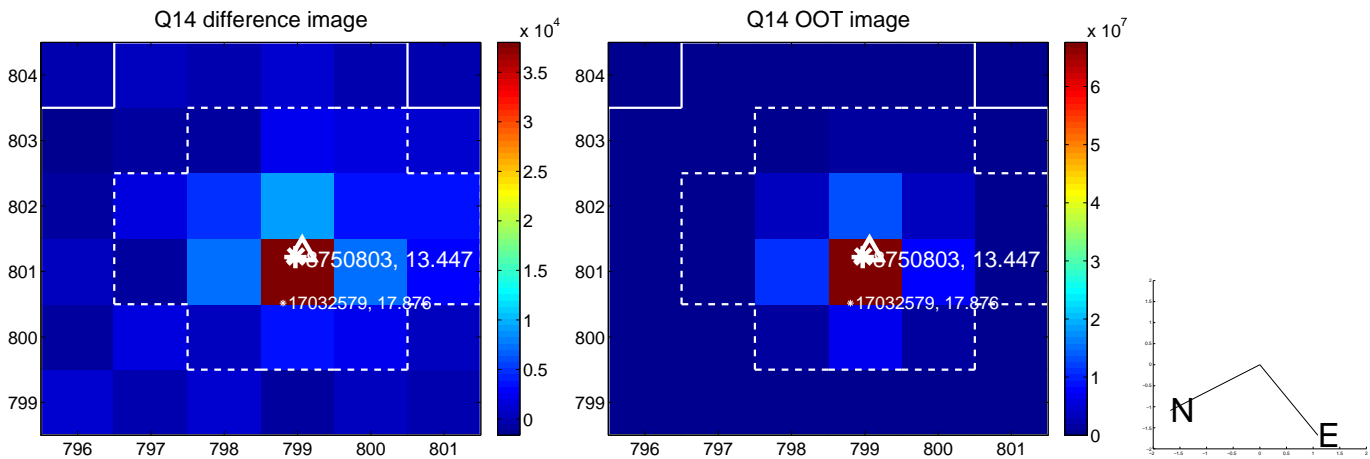
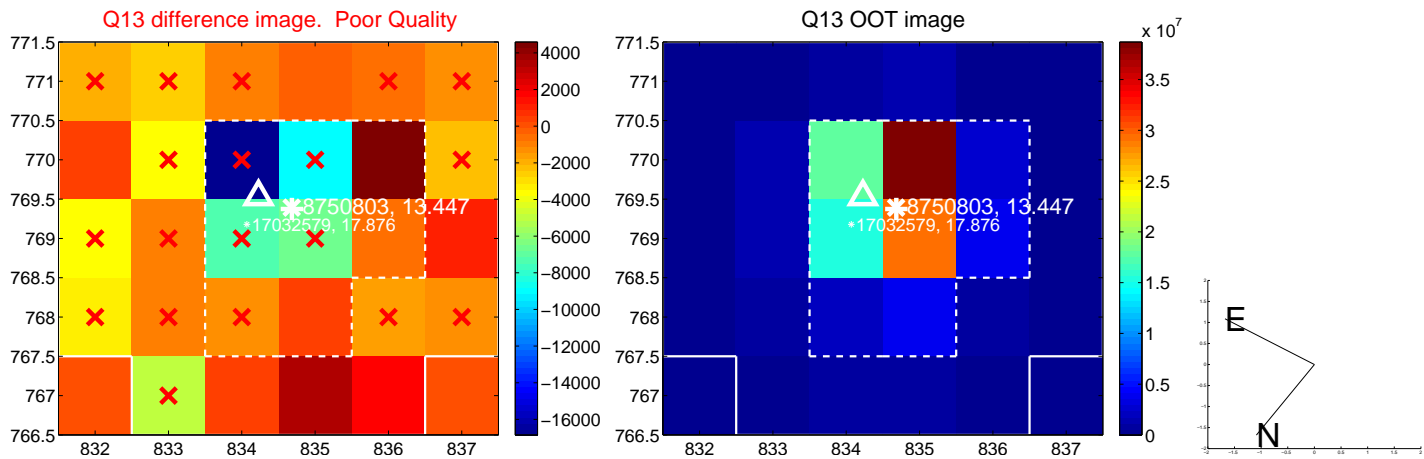
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



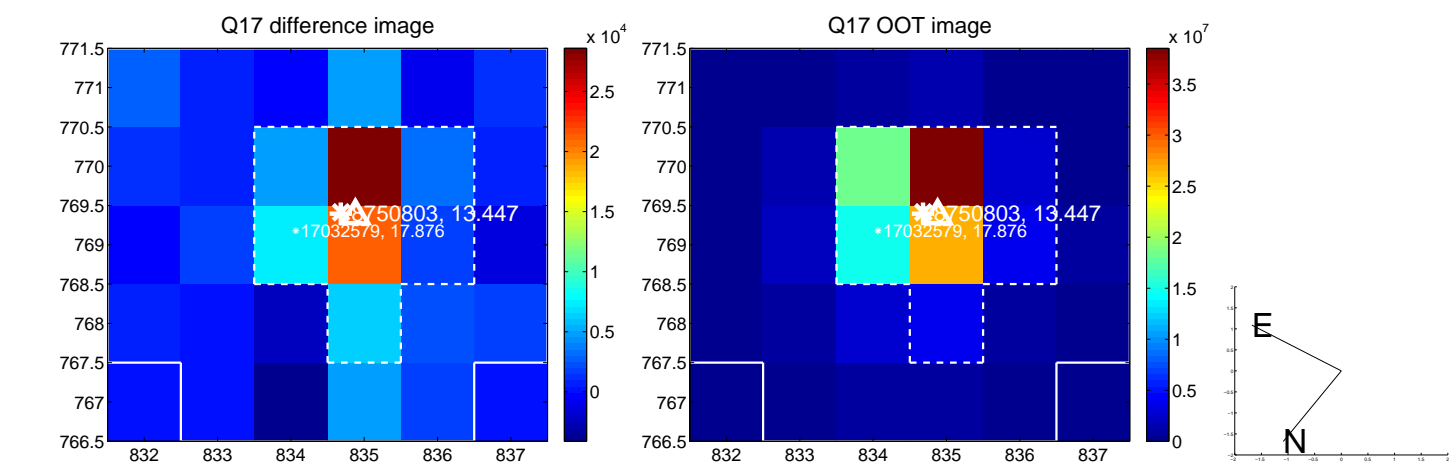
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



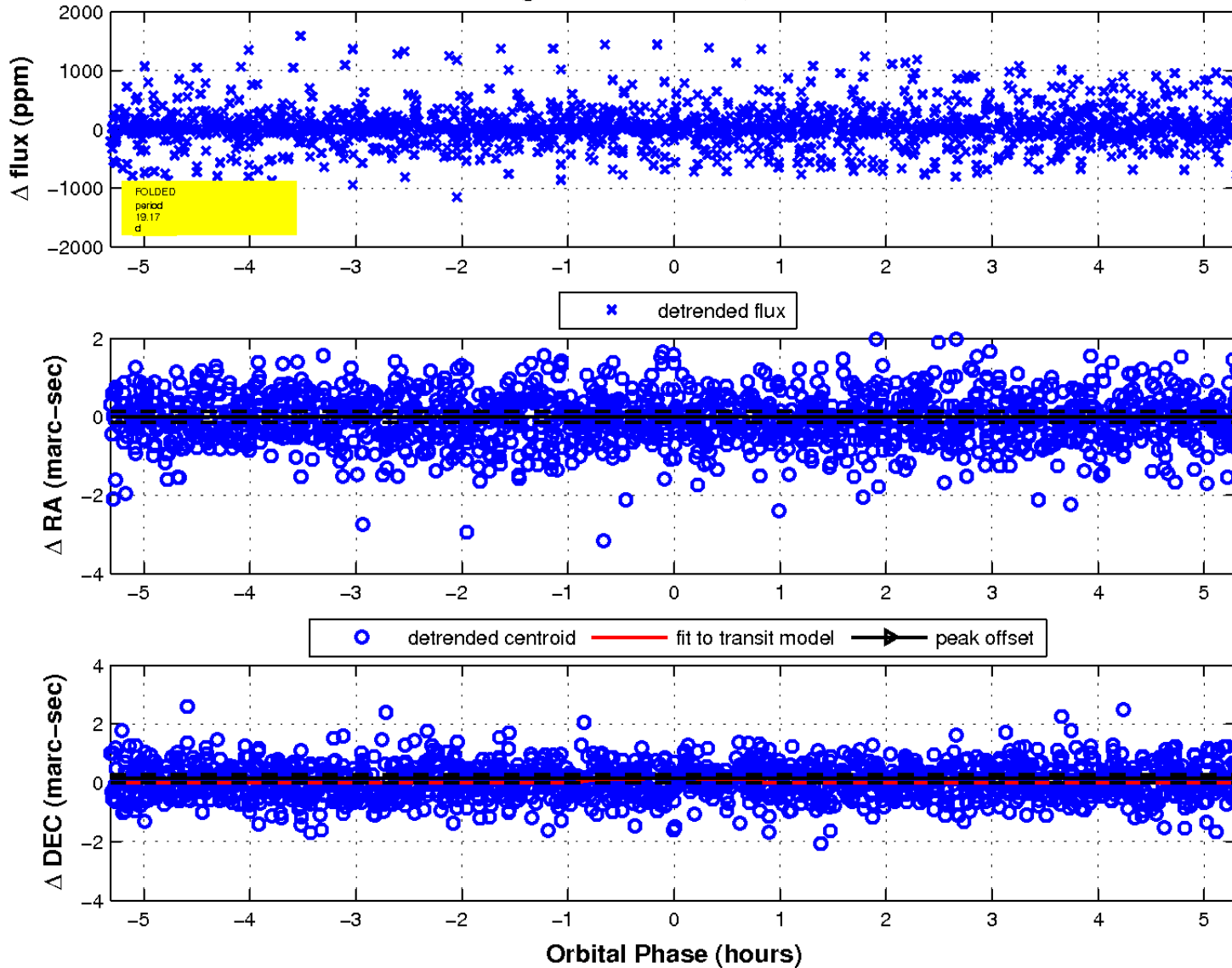
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

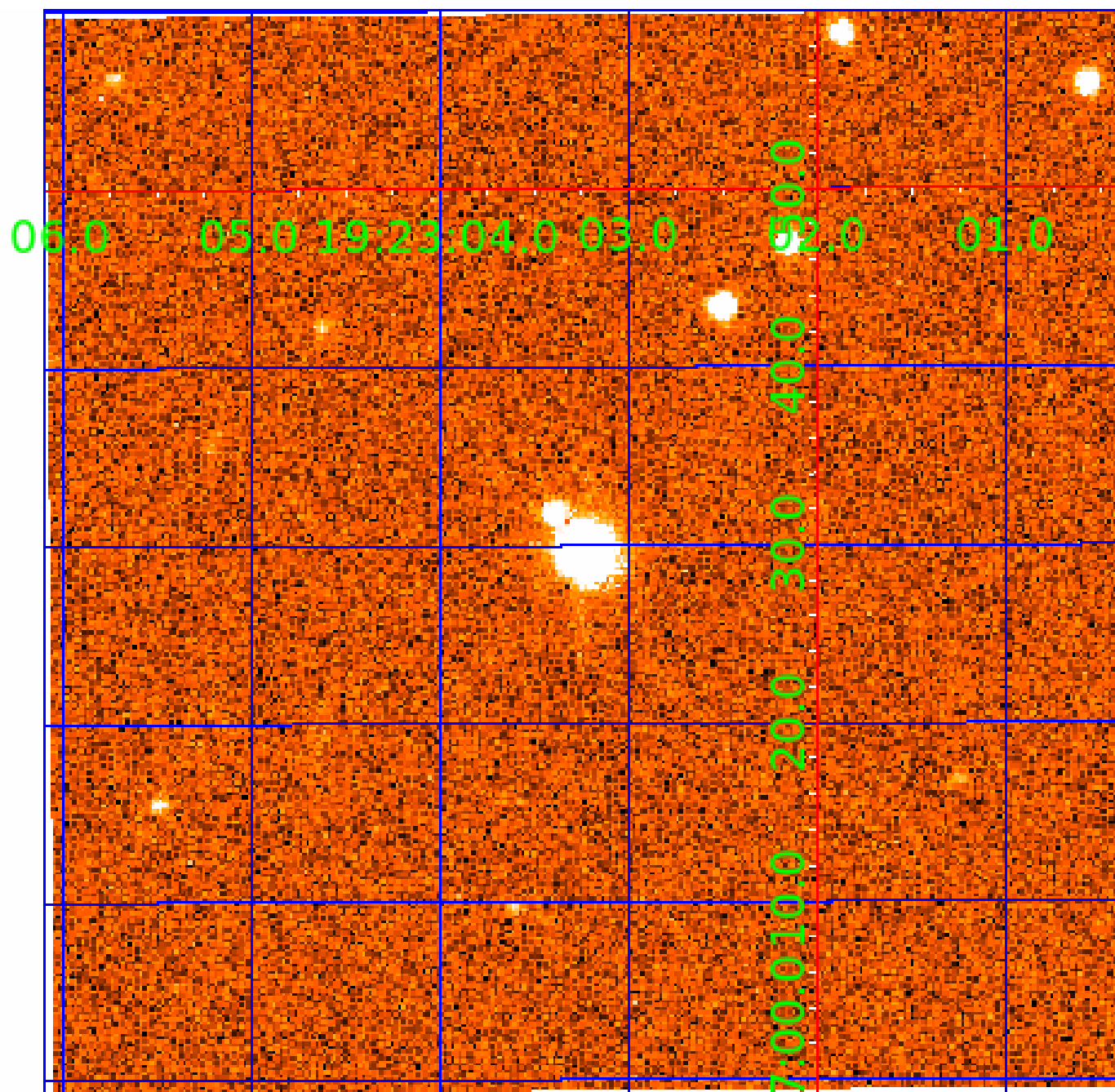


fluxWeightedCentroids, Planet 8 of 9



UKIRT Image

Declination



KIC 008750803

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})
008750803-01	OBS	No	2.636437	133.618865	20.8	18.499	7.5	2.5	2.13	6785	1.04	4551.06
008750803-02	OBS	No	89.807442	204.295294	1818.2	11.149	24.0	15.9	2.13	6785	16.74	41.22
008750803-03	OBS	No	45.817335	133.120726	490.1	5.447	15.4	6.8	2.13	6785	9.04	101.10
008750803-05	OBS	No	14.846085	132.998814	135.9	1.803	11.2	3.1	2.13	6785	2.84	454.28
008750803-06	OBS	No	247.819034	248.241421	713.4	5.576	11.9	11.6	2.13	6785	5.72	10.65
008750803-07	OBS	No	215.867311	159.800698	5293.5	46.615	11.6	11.3	2.13	6785	17.48	12.80
008750803-08	OBS	No	19.171204	137.886065	204.1	1.774	10.0	4.5	2.13	6785	3.55	323.05
008750803-09	OBS	No	21.858808	133.235020	242.1	48.296	9.8	3.8	2.13	6785	3.49	271.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008750803-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008750803-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
008750803-03	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
008750803-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008750803-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008750803-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008750803-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—HALO_GHOST
008750803-09	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

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

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

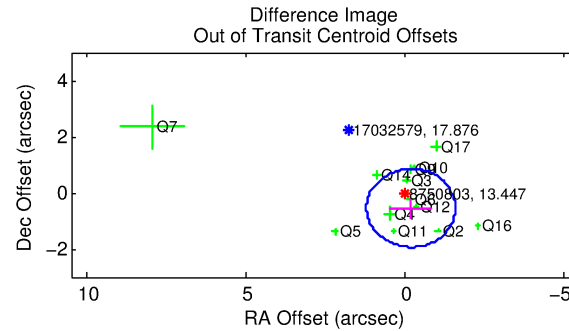
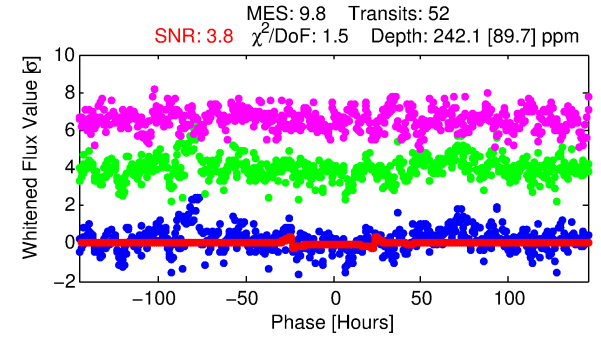
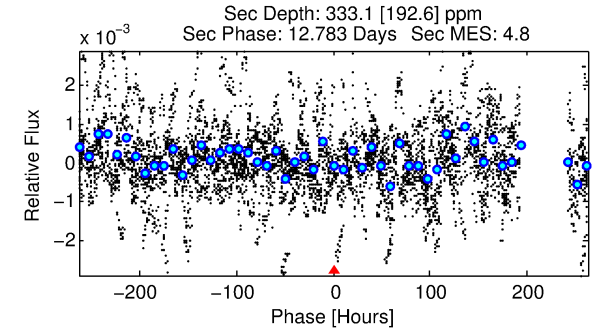
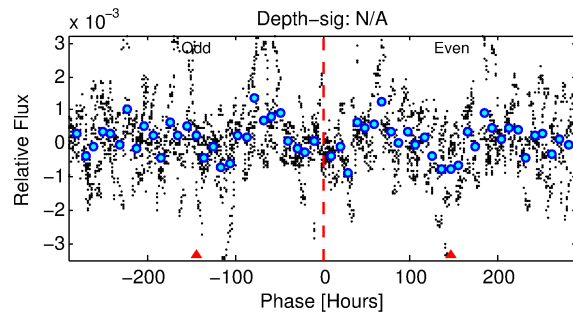
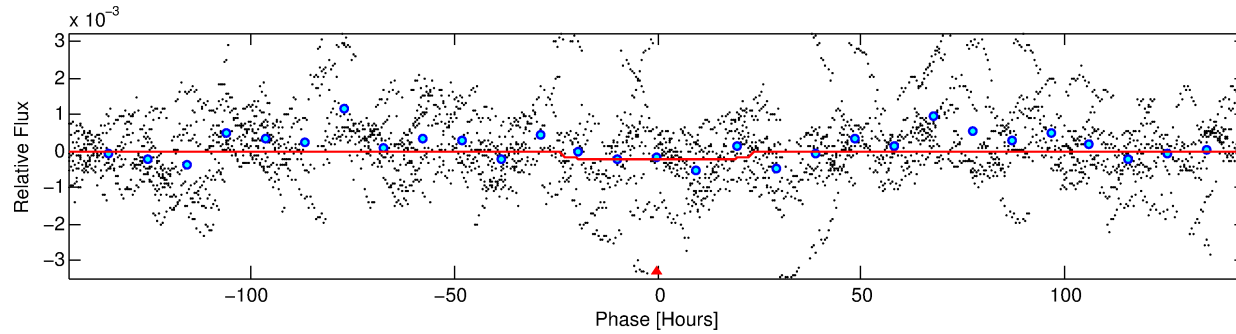
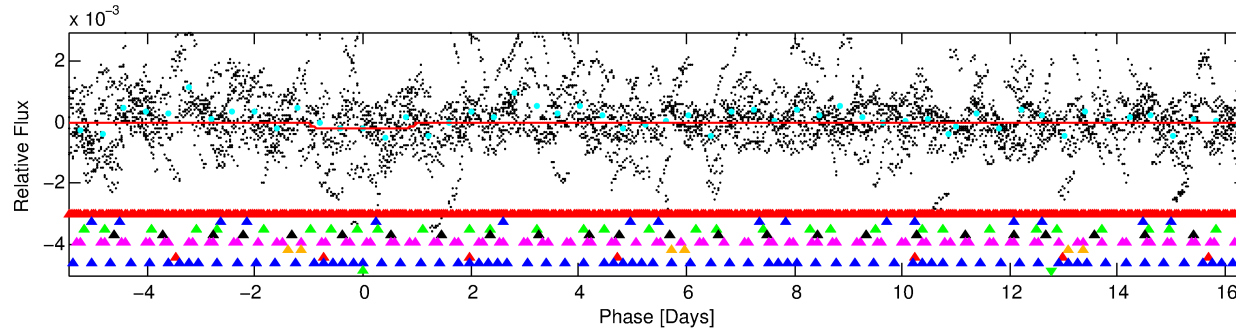
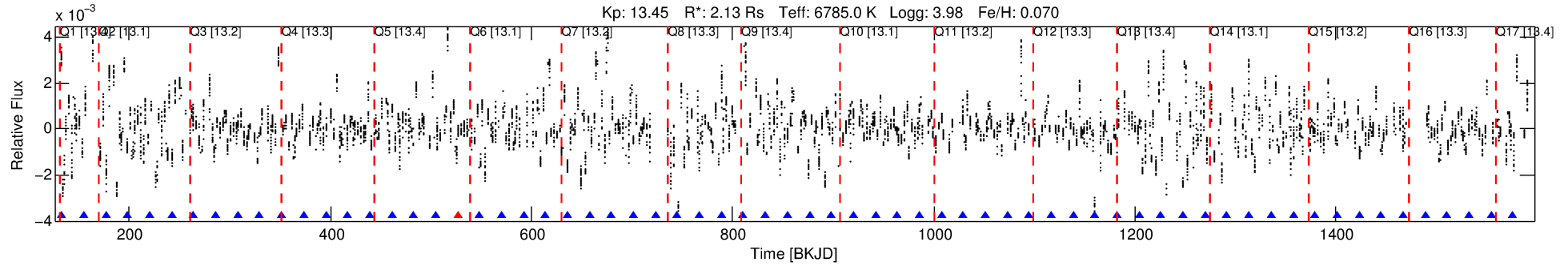
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008750803-09

No Significant Match Found

DV One-Page Summary

KIC: 8750803 Candidate: 9 of 9 Period: 21.859 d



DV Fit Results:

Period = 21.85881 [0.00094] d
Epoch = 133.2350 [0.0339] BKJD
Rp/R* = 0.0151 [0.0033]
a/R* = 2.84 [1.20]
b = 0.64 [0.45]
Seff = 271.21 [132.34]
Teq = 1035 [126] K
Rp = 3.49 [1.44] Re
a = 0.1779 [0.0541] AU
Ag = 475.28 [408.74] [1.16σ]
Teffp = 7470 [1394] K [4.60σ]

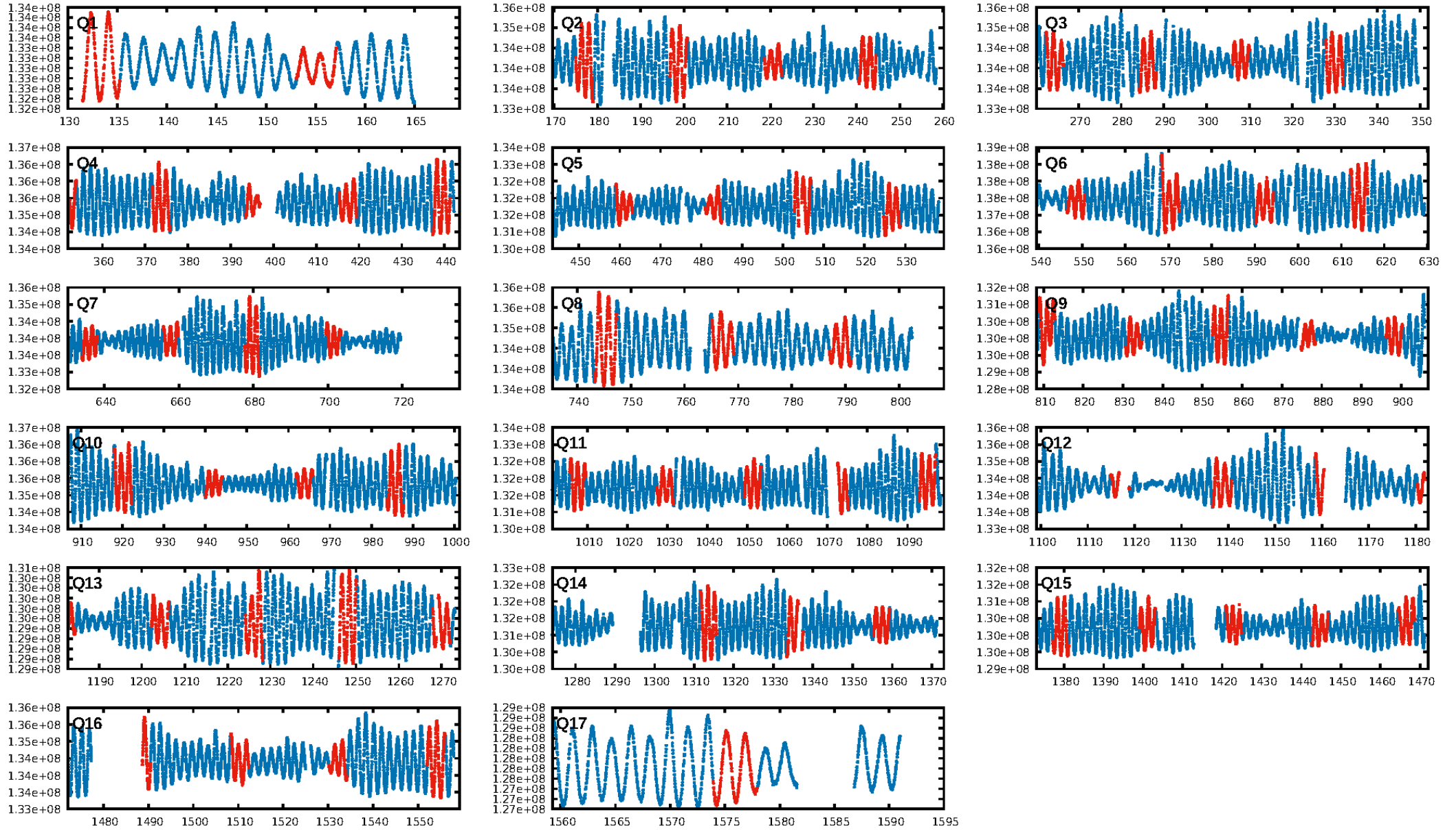
DV Diagnostic Results:

ShortPeriod-sig: 81.8% [1.33σ]
LongPeriod-sig: 100.0% [11.83σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [48/49]
GhostDiagnostic-chr: 2.237
Centroid-sig: 0.9%
Centroid-so: 0.255 arcsec [1.92σ]
OotOffset-rm: 0.574 arcsec [1.24σ]
OotOffset-st: 4/3/3/3 [13]
KicOffset-rm: 0.510 arcsec [1.06σ]
KicOffset-st: 4/3/3/3 [13]
DiffImageQuality-fgm: 0.38 [5/13]
DiffImageOverlap-fno: 0.00 [0/16]

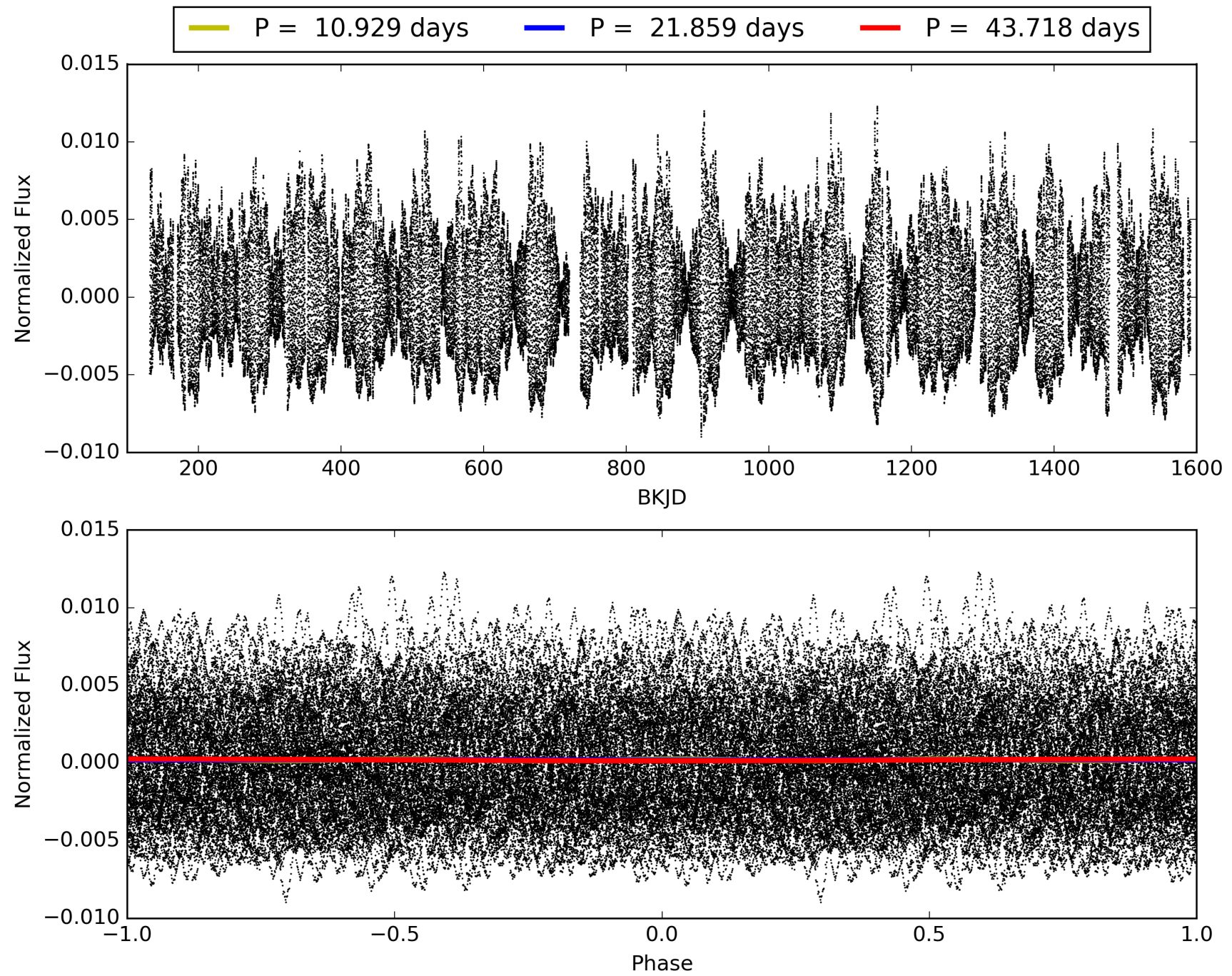
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:33:23 Z

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

TCE 008750803-09, PDC Light Curves

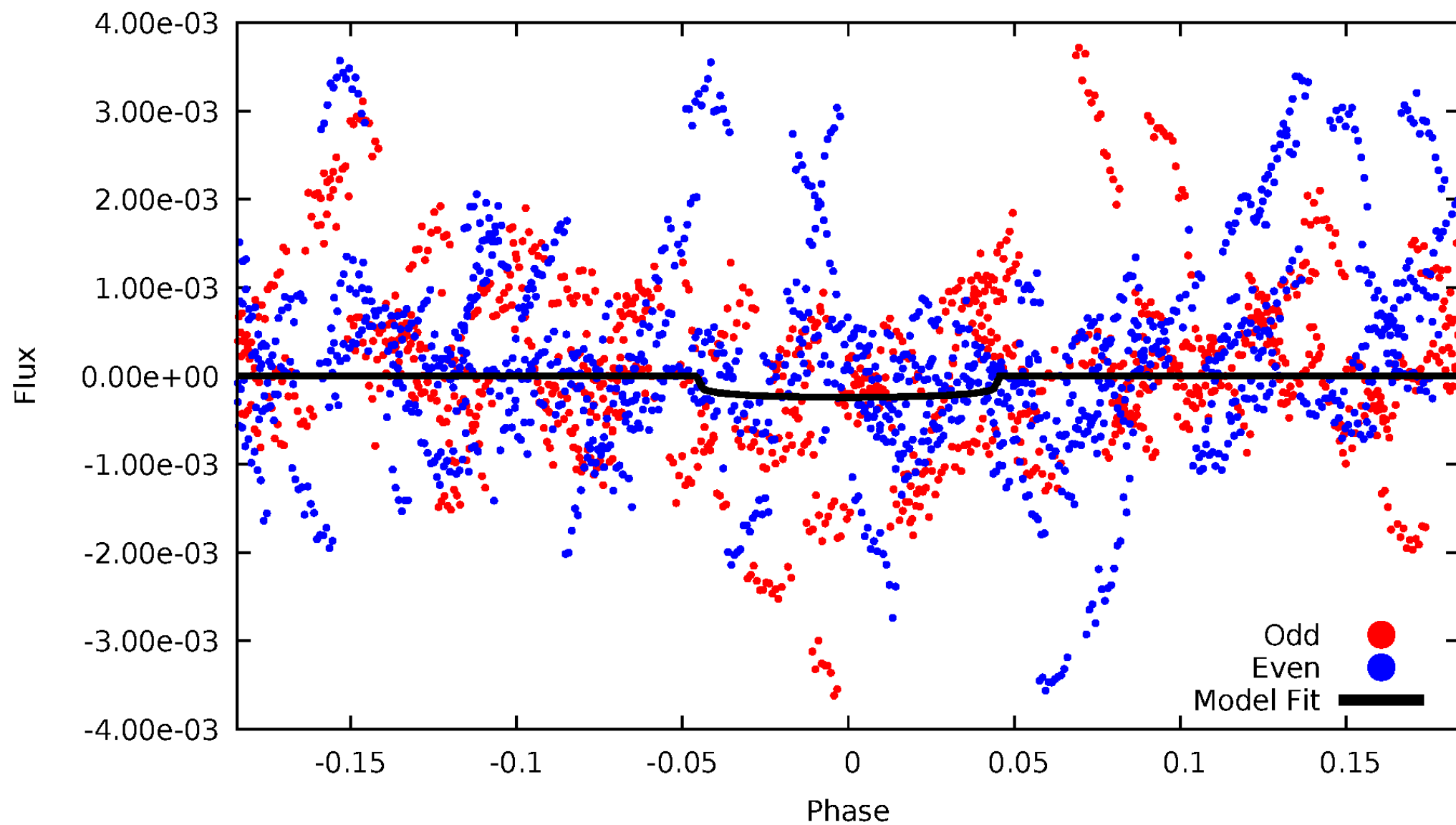


TCE 008750803-09



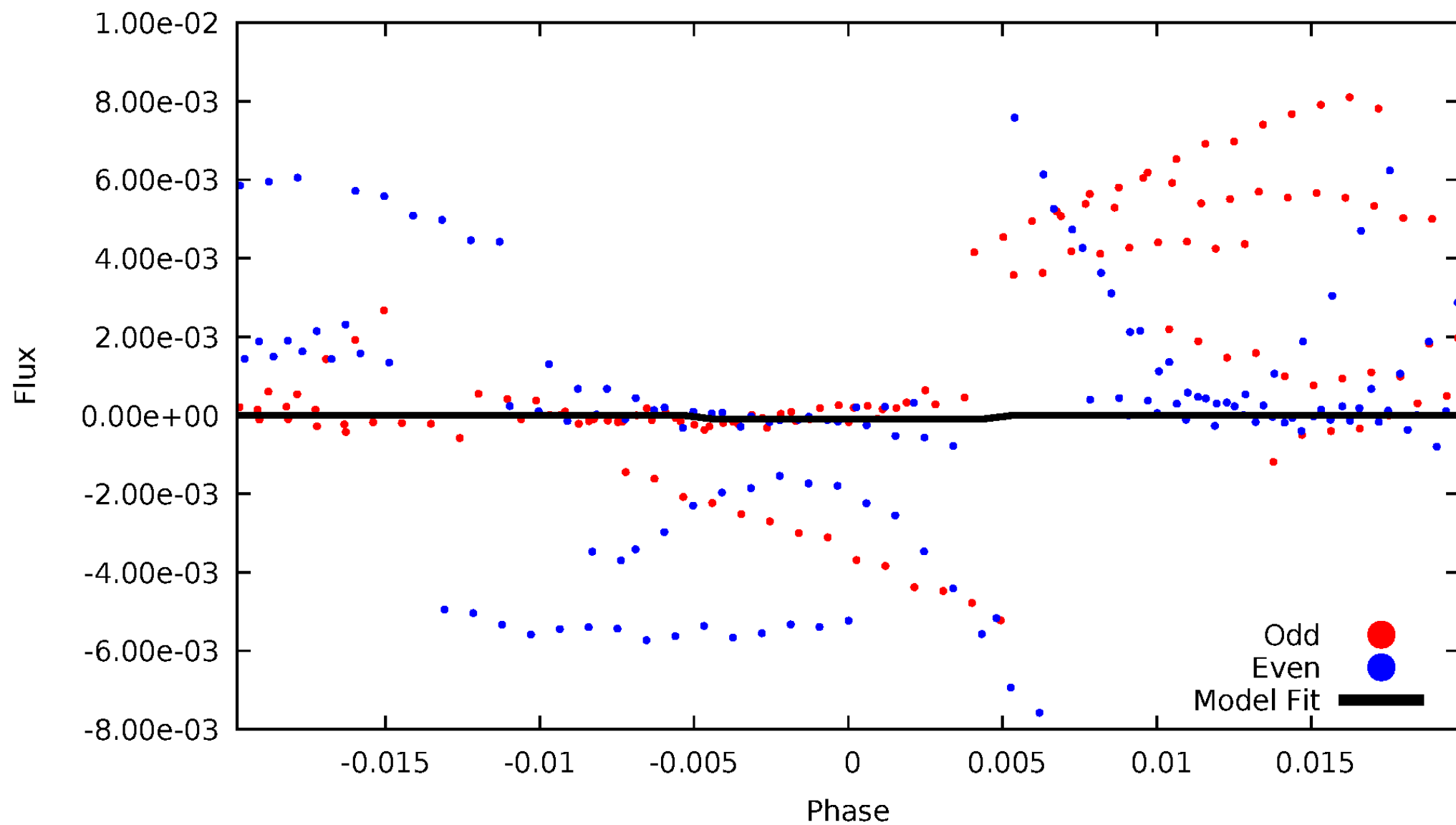
DV Odd/Even

TCE 008750803-09



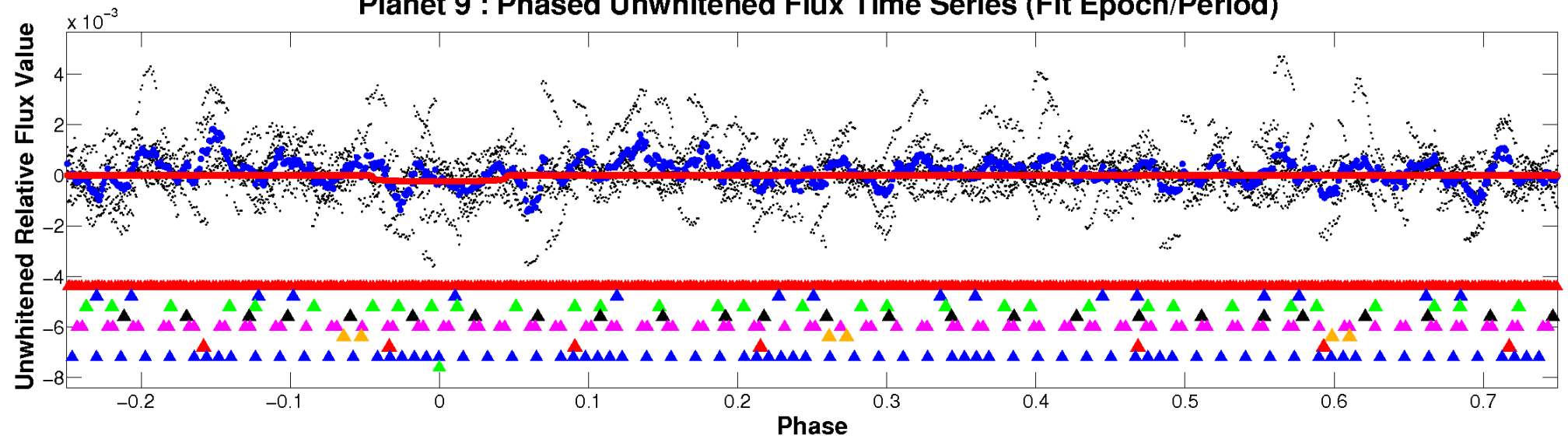
ALT Odd/Even

TCE 008750803-09

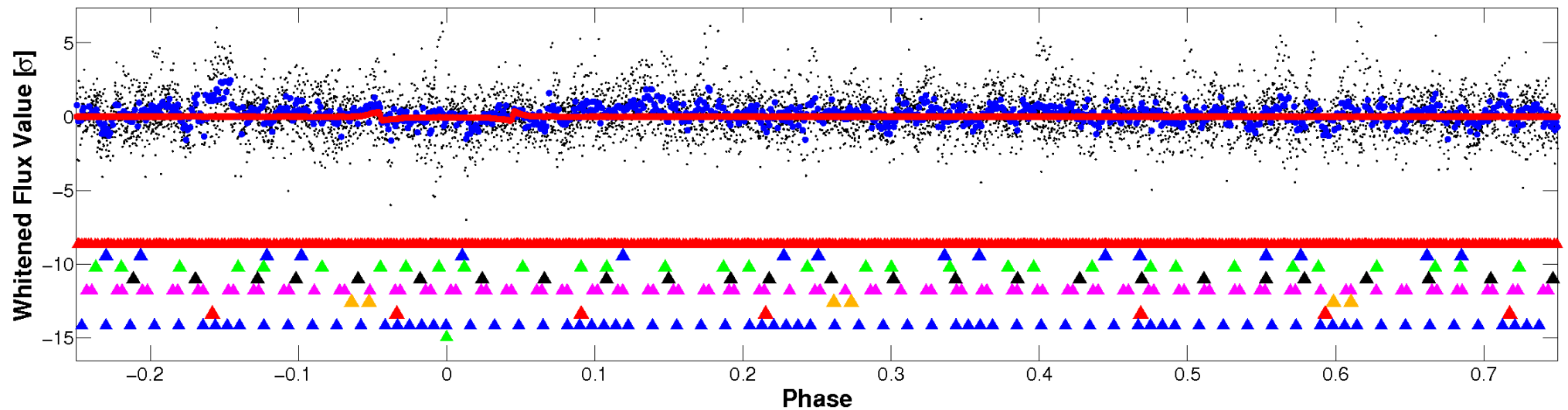


Non-Whitened Vs. Whitened Light Curve

Planet 9 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

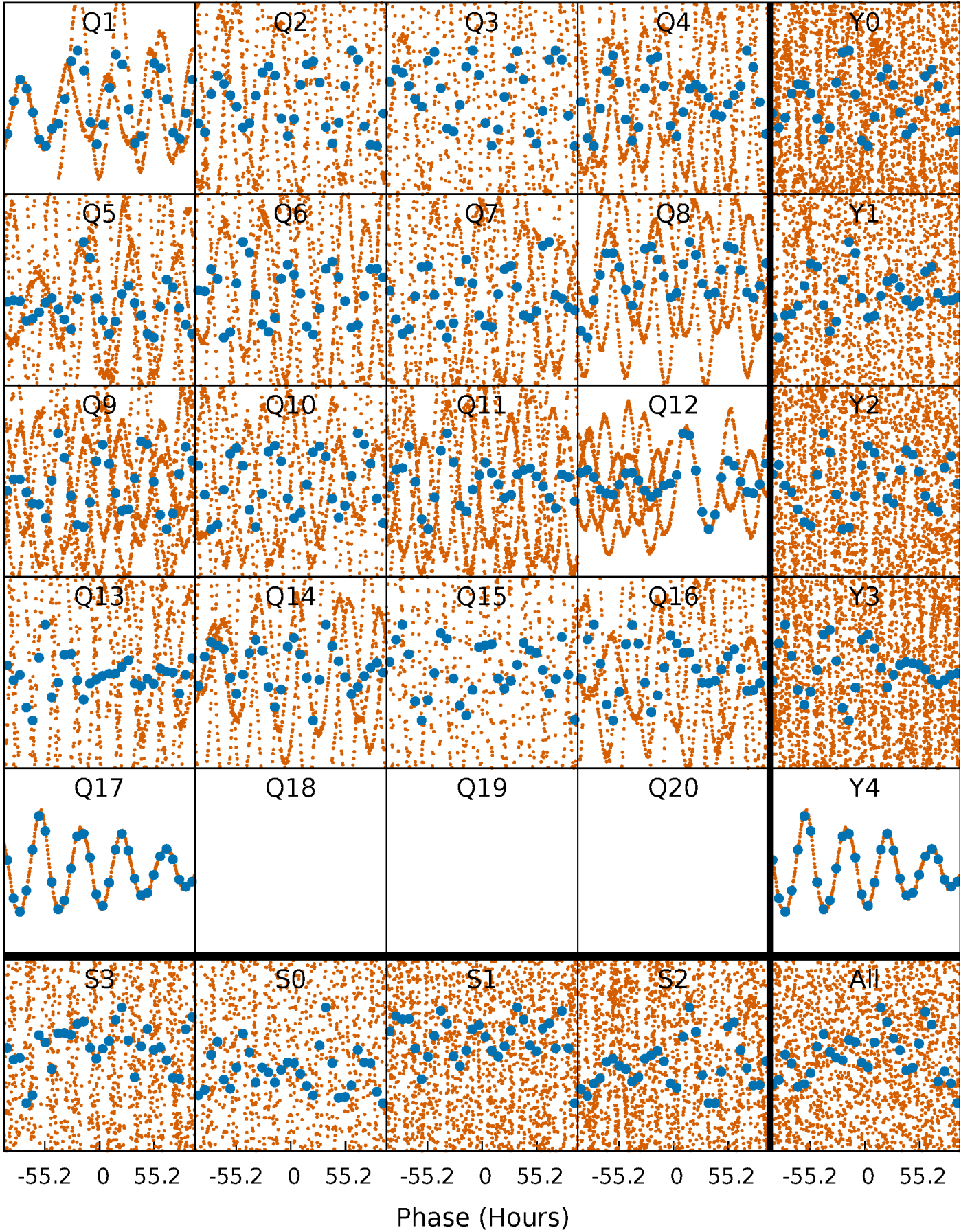


Planet 9 : Phased Whitened Flux Time Series (Fit Epoch/Period)



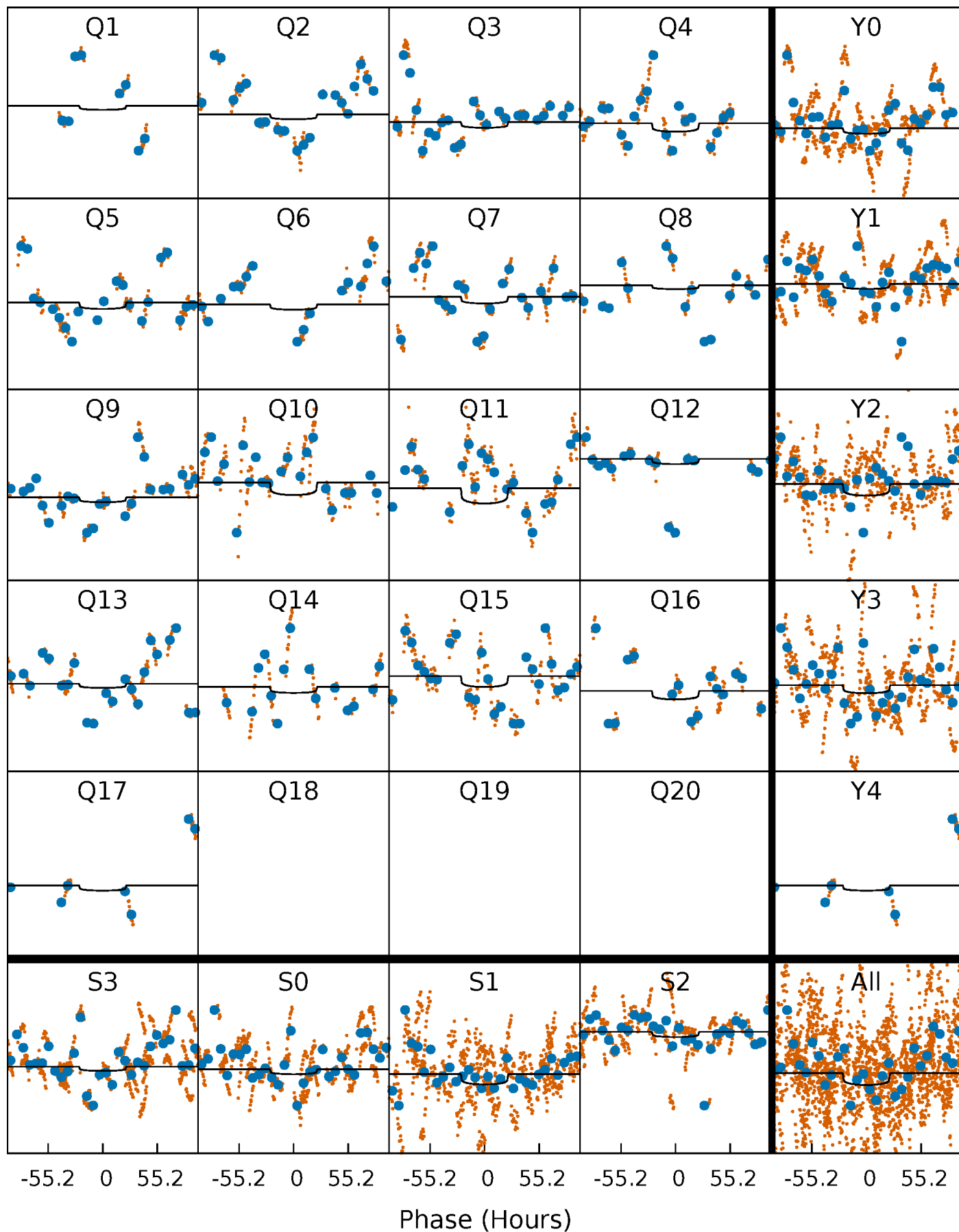
PDC Quarter-Phased Transit Curves

TCE 008750803-09 $P = 21.858808$ Days $T_0 = 133.235020$ (BKJD)



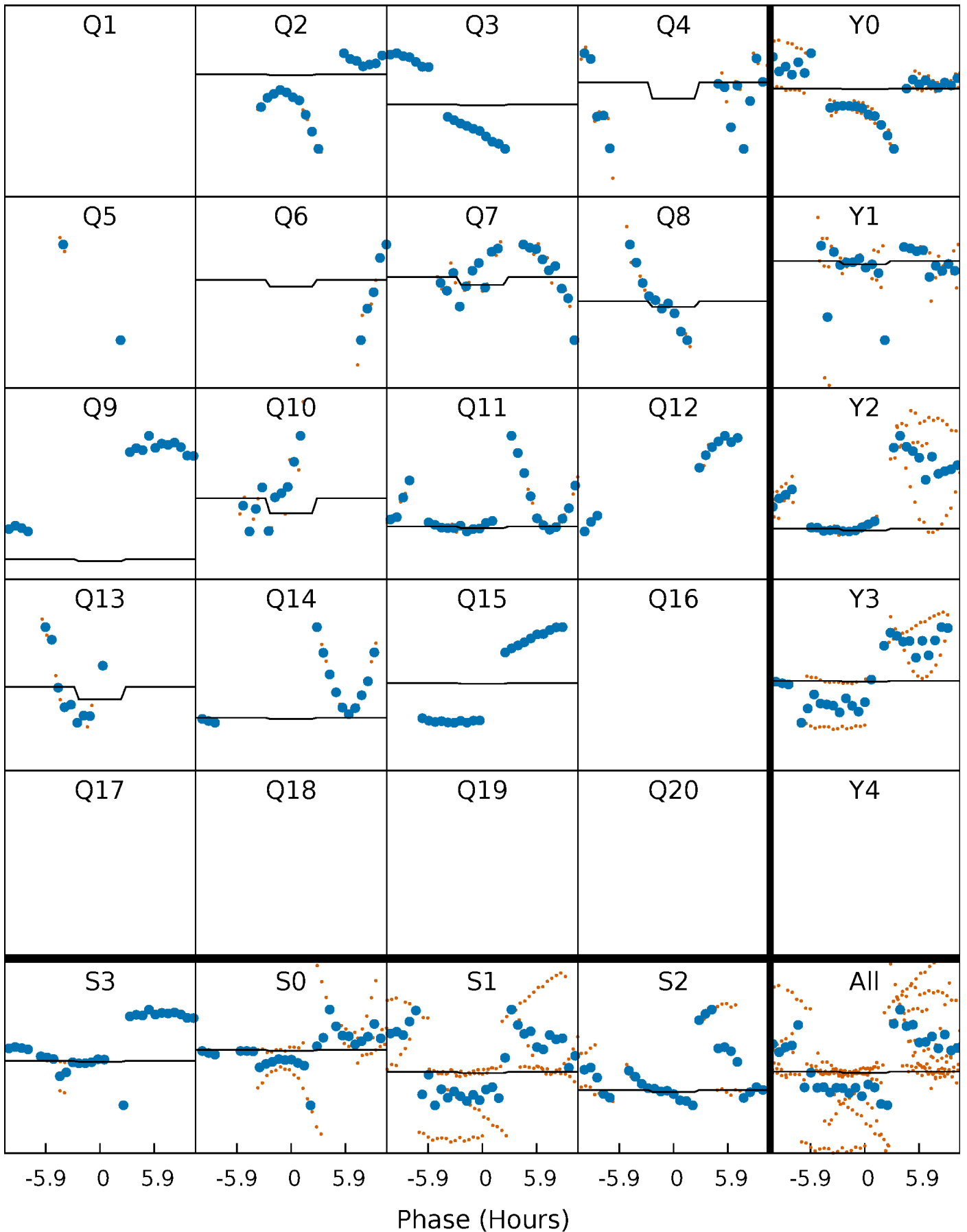
DV Quarter-Phased Transit Curves

TCE 008750803-09 P= 21.858808 Days $T_0=133.235020$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

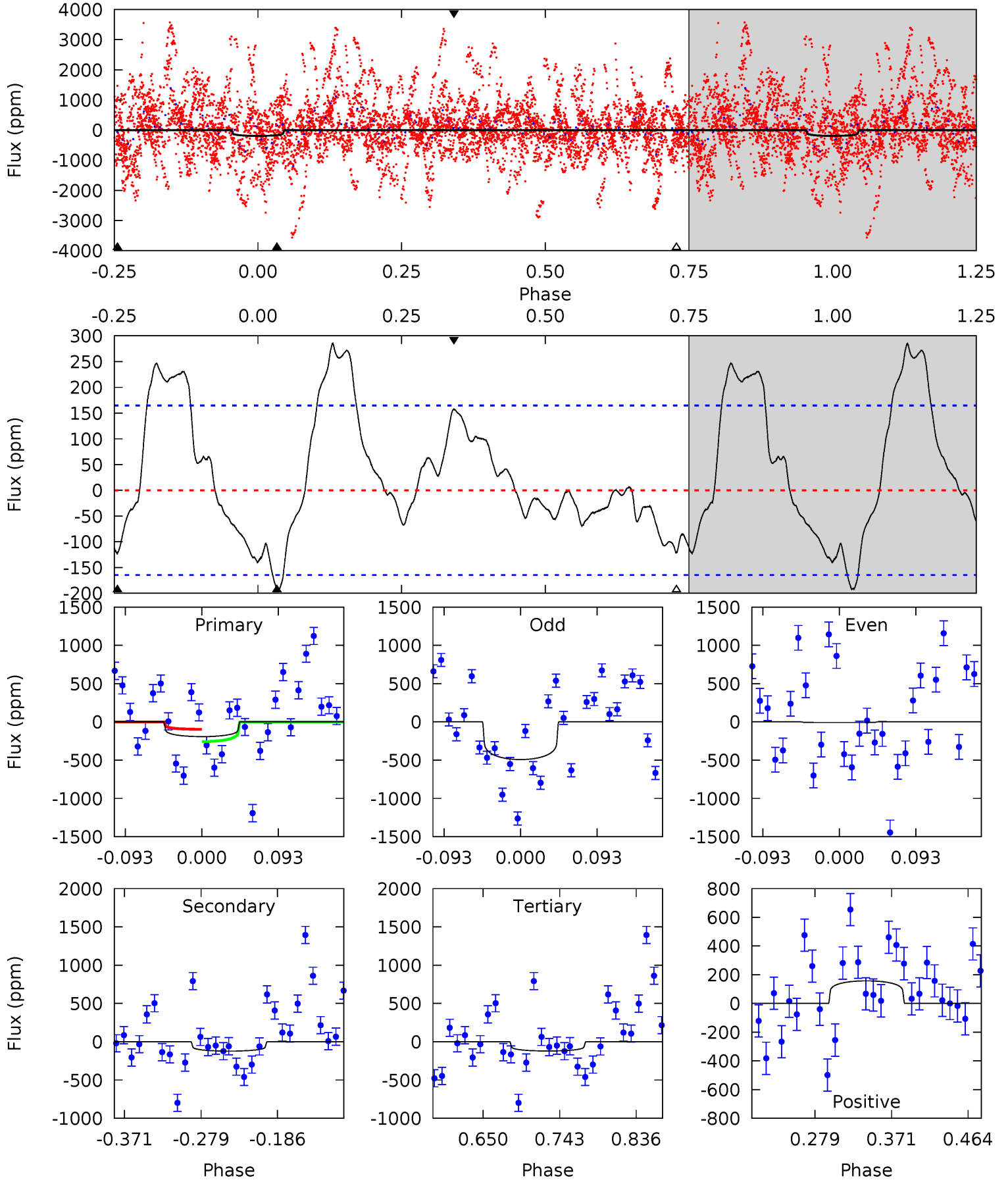
TCE 008750803-09 $P = 21.847008$ Days $T_0 = 133.435201$ (BKJD)



DV Model-Shift Uniqueness Test

008750803-09, P = 21.858808 Days, E = 111.376212 Days

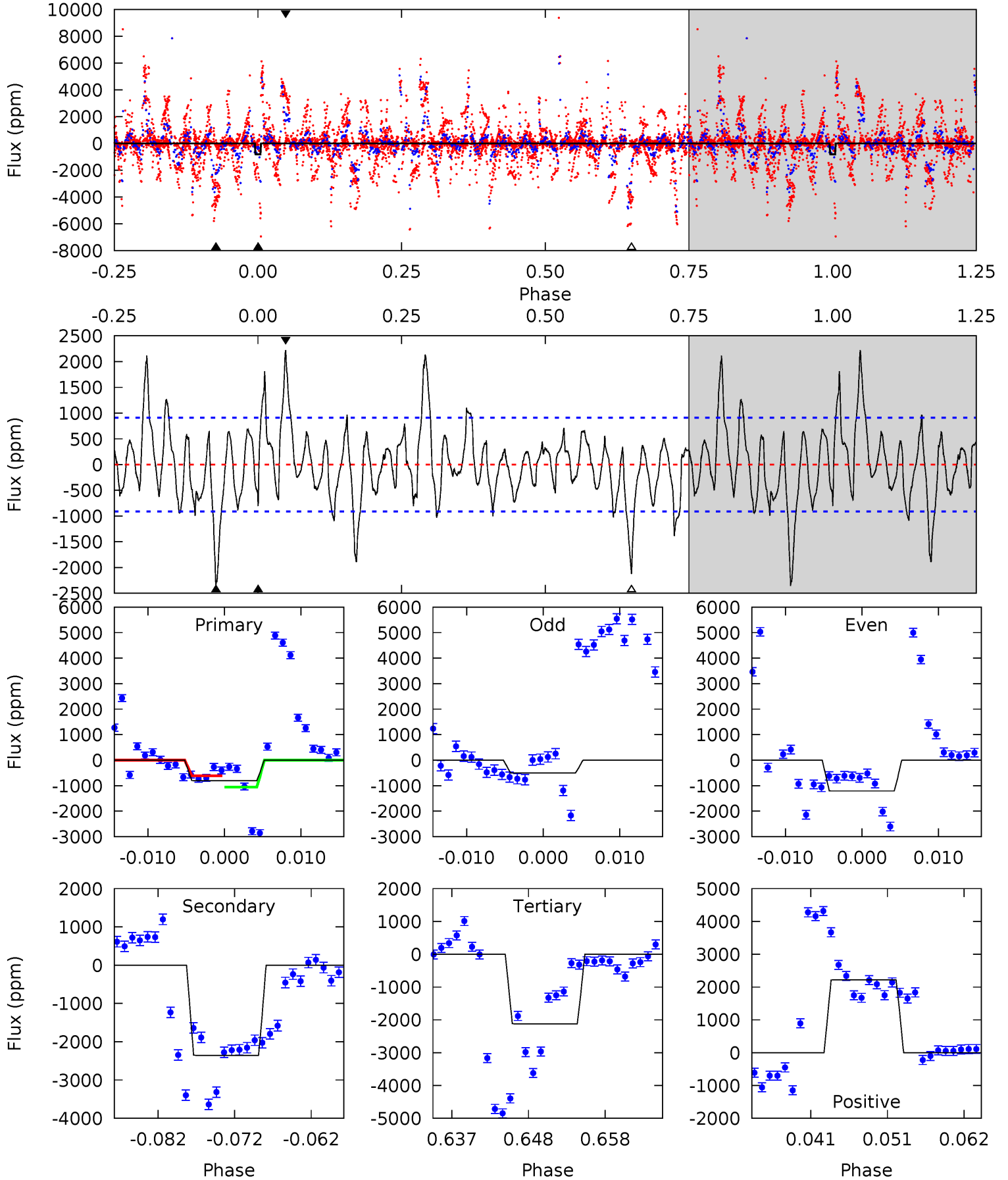
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.35	3.41	3.37	4.38	4.58	1.68	2.65	1.97	0.96	0.04	-0.98	6.60	3.32	0.60	2.11



Alt Model-Shift Uniqueness Test

008750803-09, P = 21.847008 Days, E = 111.588193 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.43	13.0	11.7	12.3	5.02	2.57	3.39	-7.29	-7.83	1.28	0.74	1.43	7.64	0.49	1.25



Stellar Parameters For KIC 008750803

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6785^{+189}_{-283}	$3.979^{+0.258}_{-0.172}$	$0.070^{+0.250}_{-0.350}$	$2.126^{+0.603}_{-0.737}$	$1.572^{+0.207}_{-0.336}$	$0.230^{+0.434}_{-0.109}$
	+3%/-4%	+6%/-4%	+357%/-500%	+28%/-35%	+13%/-21%	+188%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008750803-09 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-122 ± 36	$3.45^{+1.01}_{-0.92}$	1427^{+120}_{-114}	5716^{+908}_{-694}	172^{+158}_{-77}
Alt.	-2356 ± 181	$2.20^{+0.95}_{-0.80}$	1435^{+112}_{-126}	25490^{+20266}_{-7541}	8436^{+12256}_{-4275}

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

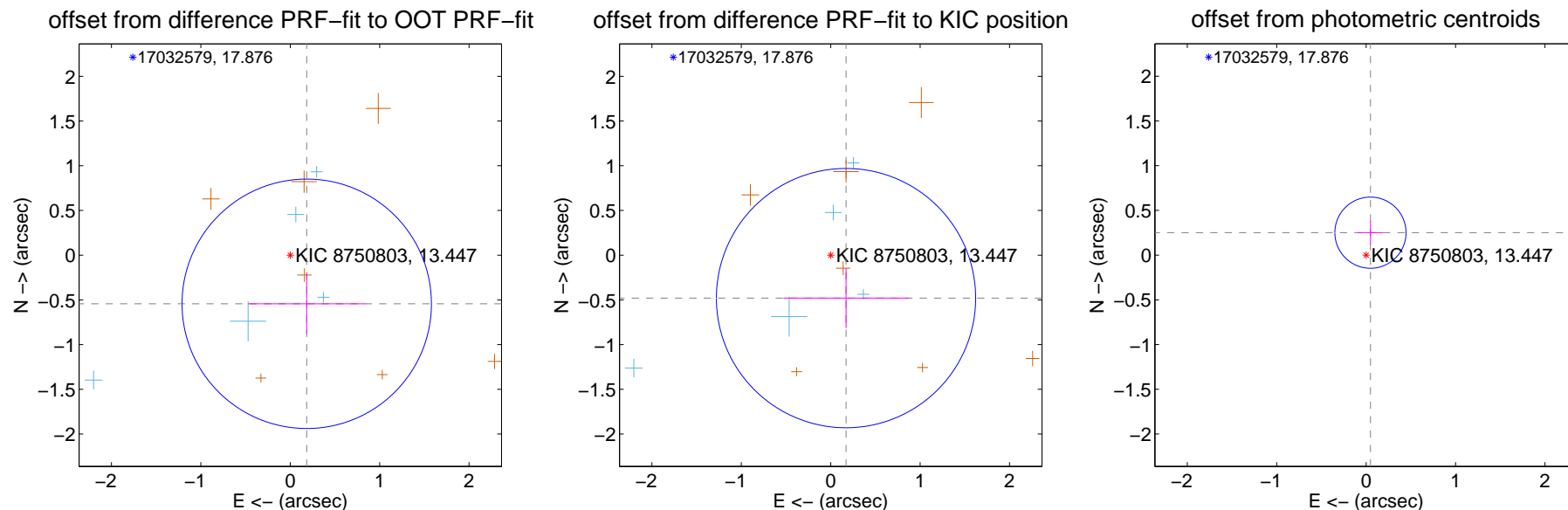
DV Centroid Data

Supplemental centroid analysis for 008750803-09. Kepler magnitude: 13.45. Transit SNR 3.83

There are 5 quarters with good PRF difference image offsets

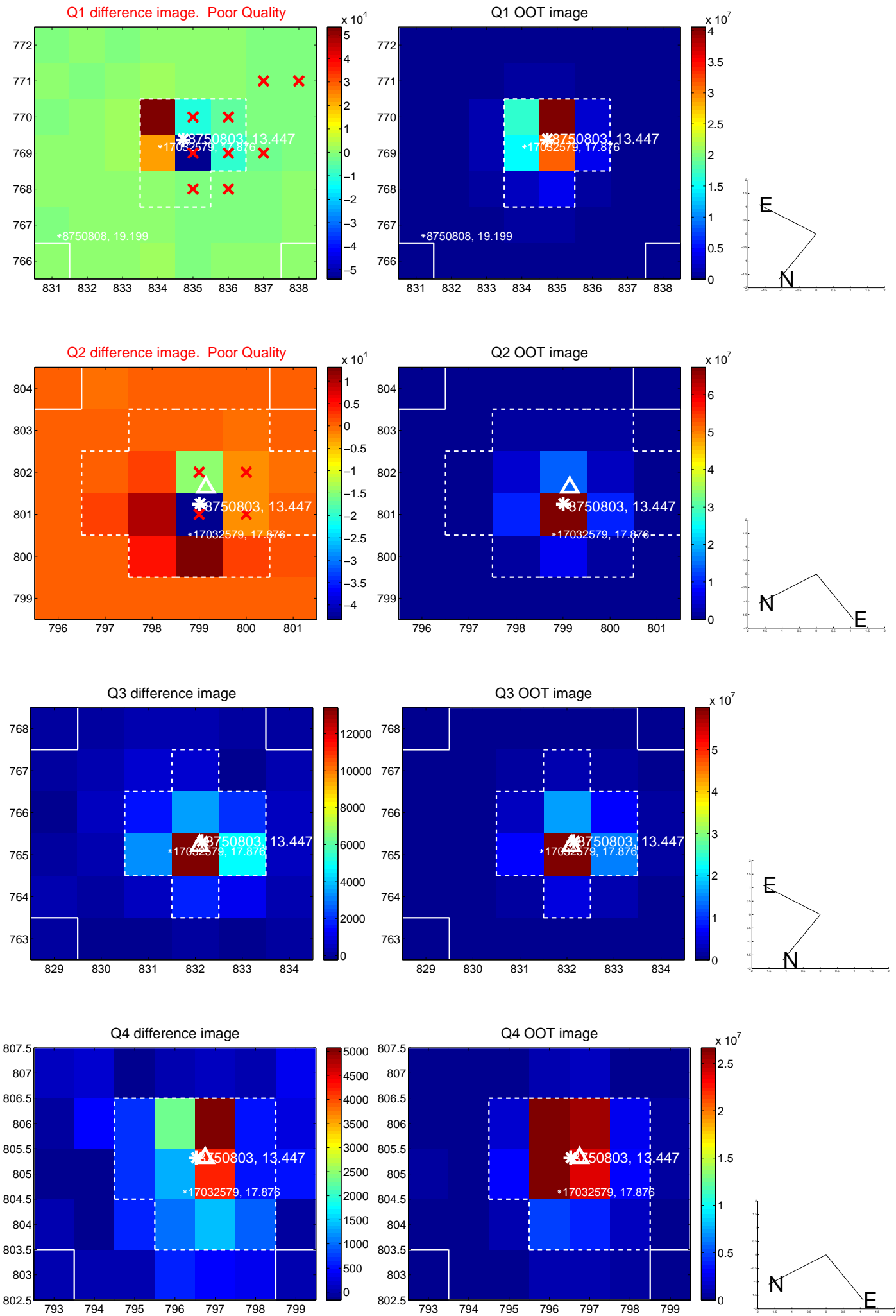
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.574 ± 0.465	1.24	-0.184 ± 0.656	-0.544 ± 0.339
PRF-fit source offset from KIC position	0.510 ± 0.483	1.06	-0.171 ± 0.700	-0.480 ± 0.335
photometric centroid source offset	0.26 ± 0.13	1.92	-0.05 ± 0.14	0.25 ± 0.13

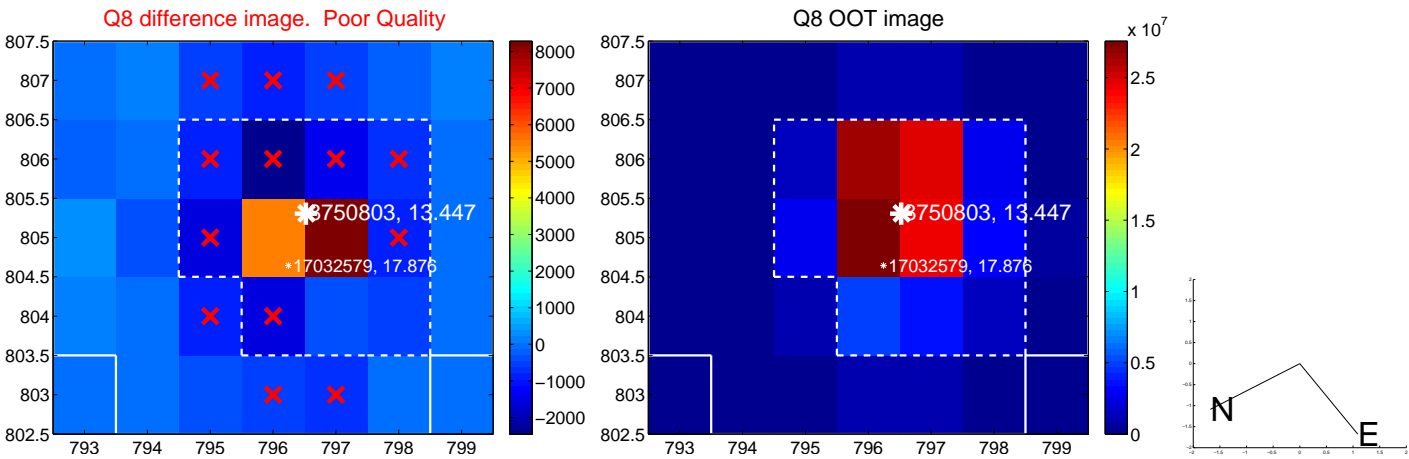
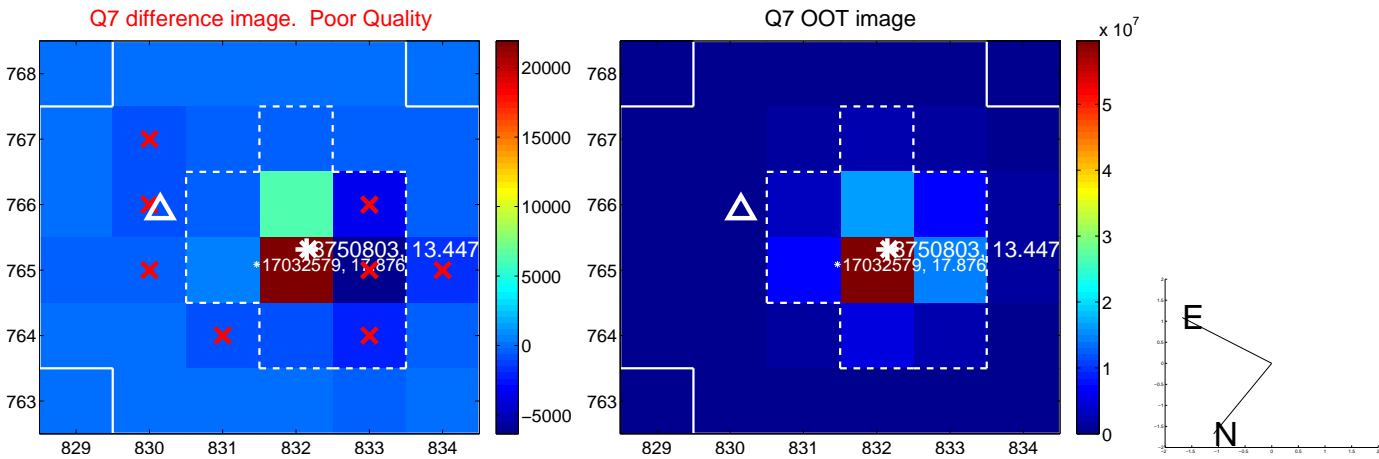
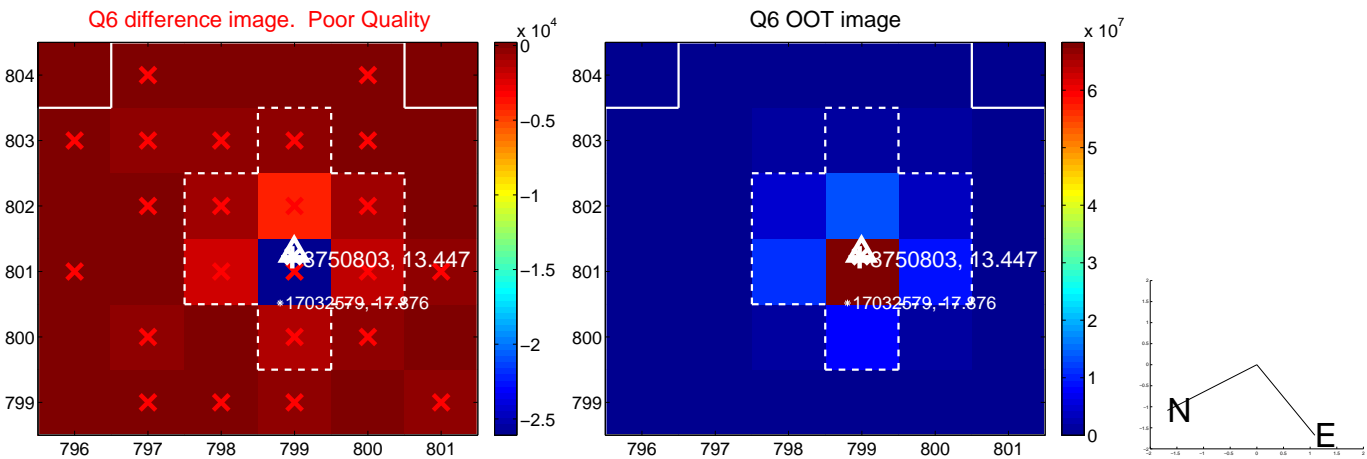
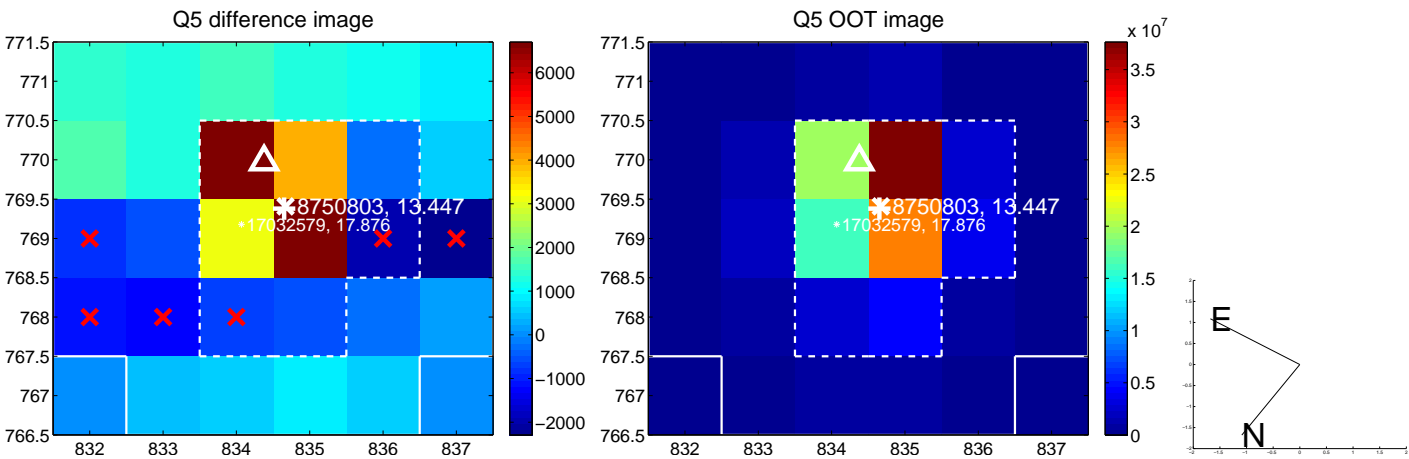


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

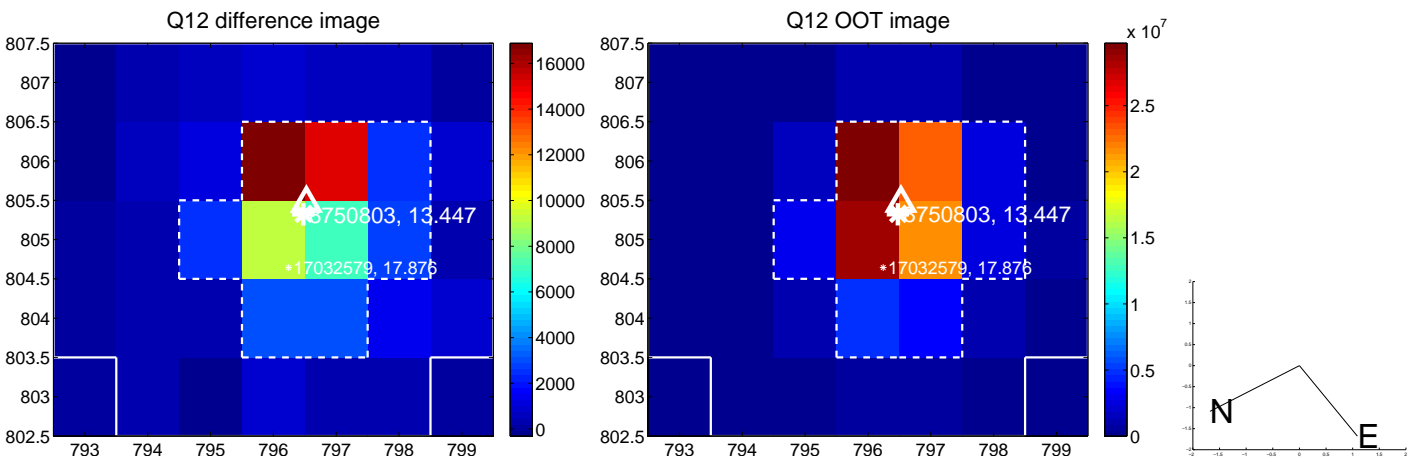
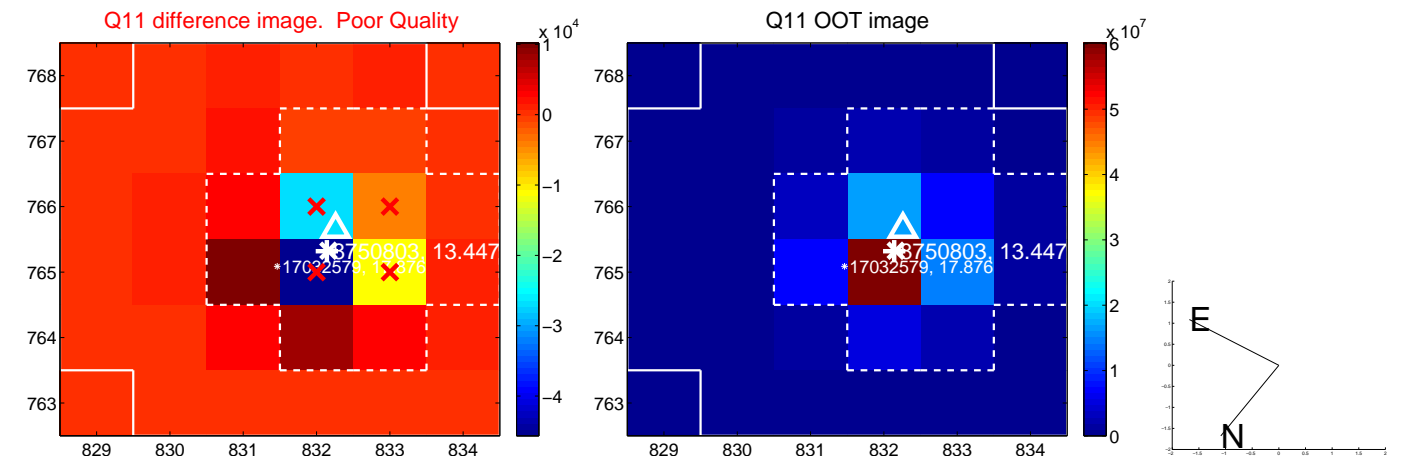
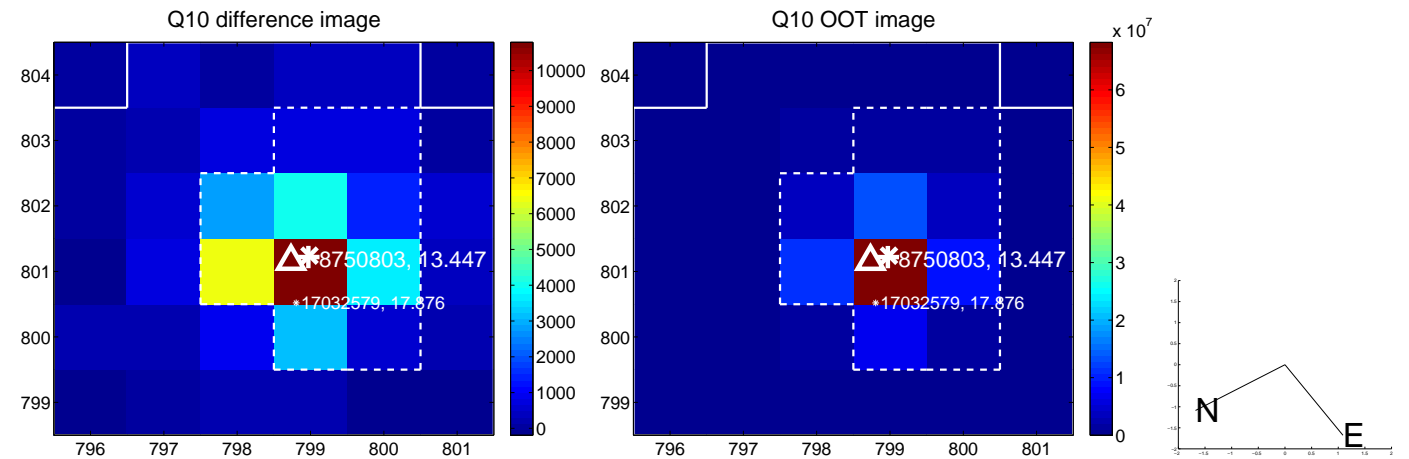
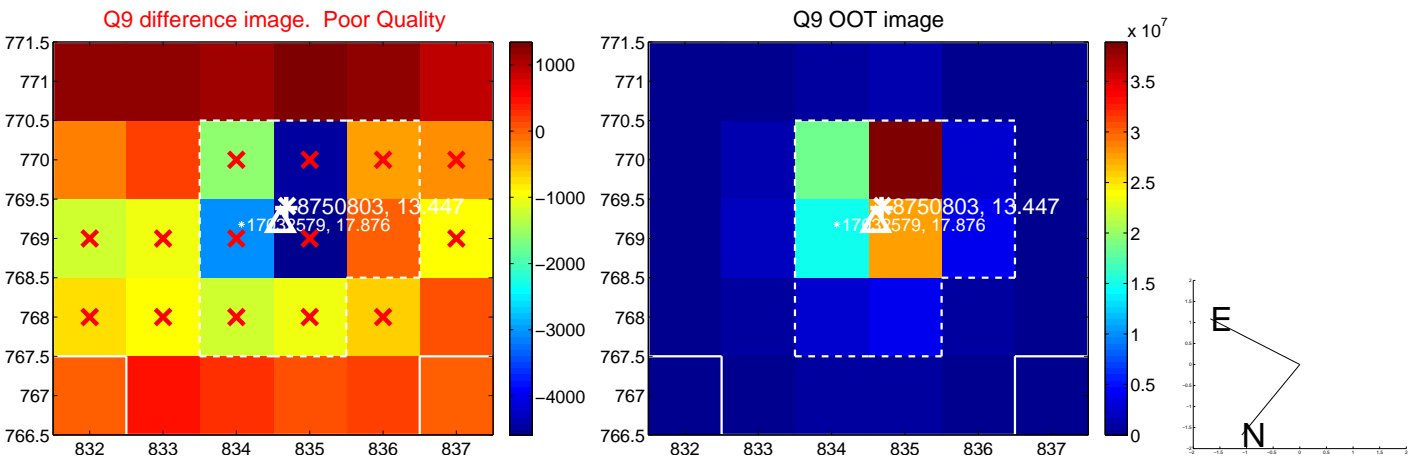
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



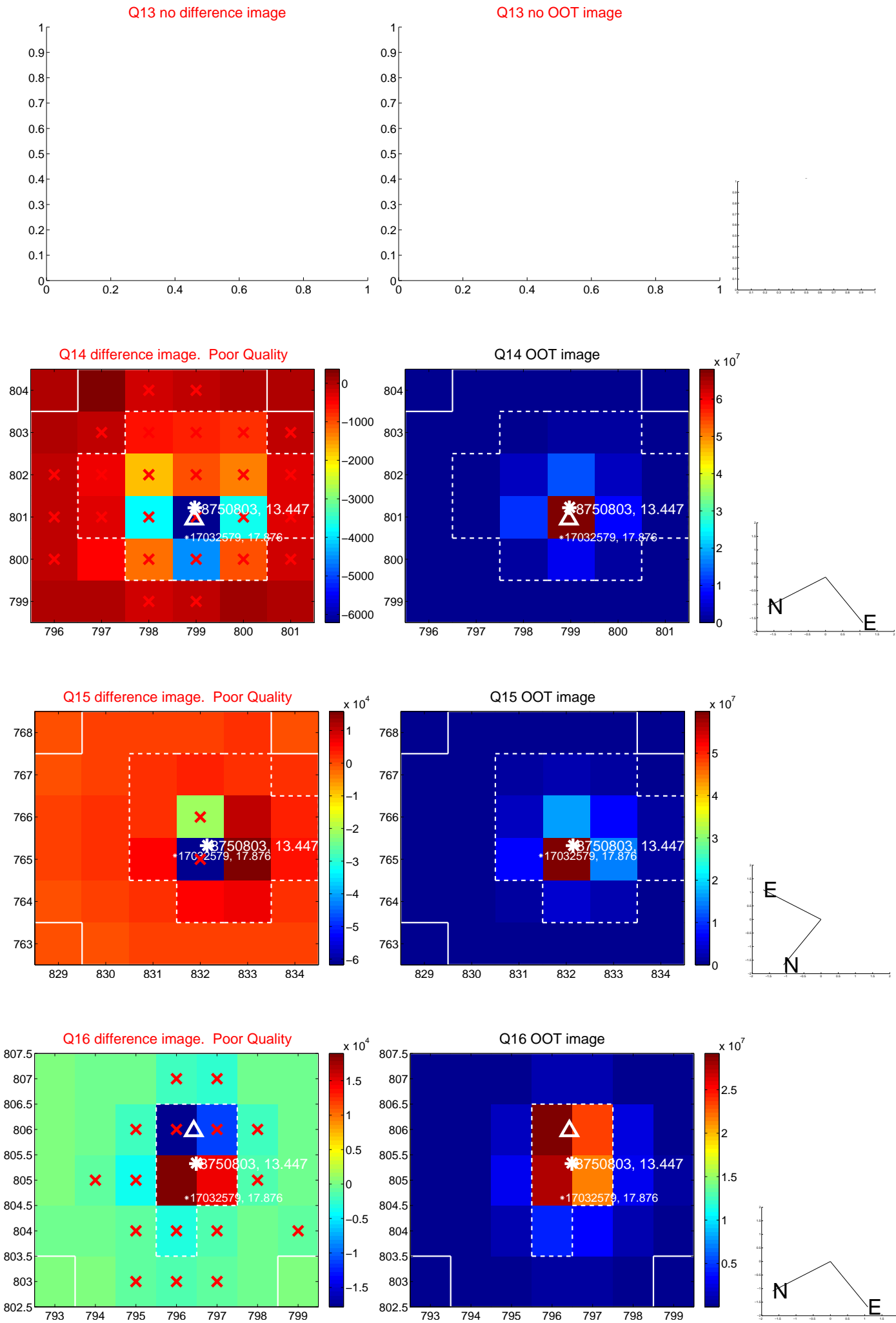
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



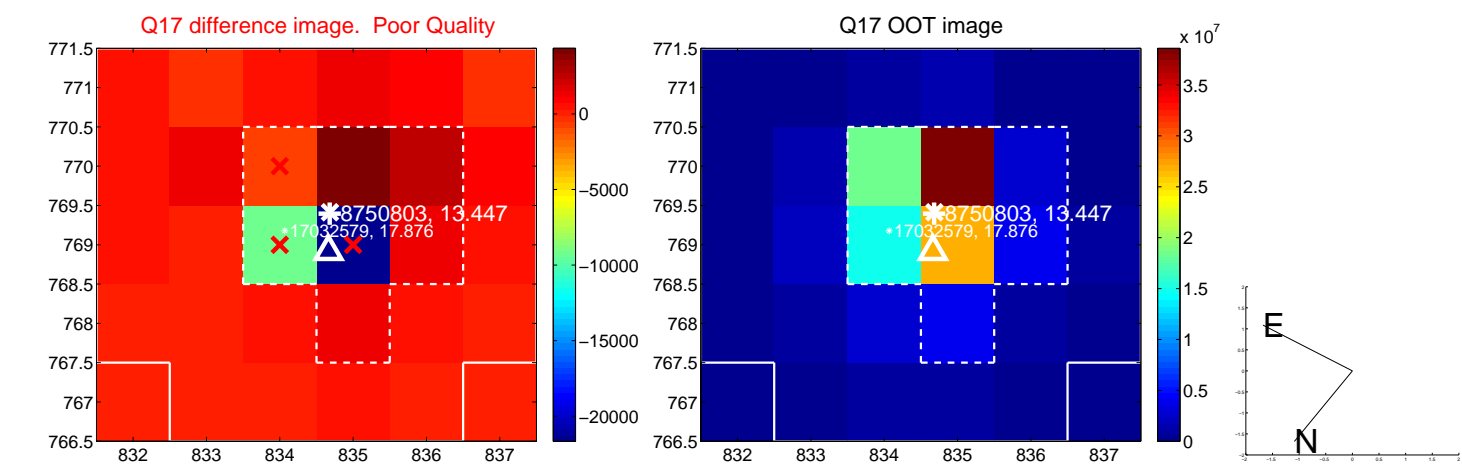
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



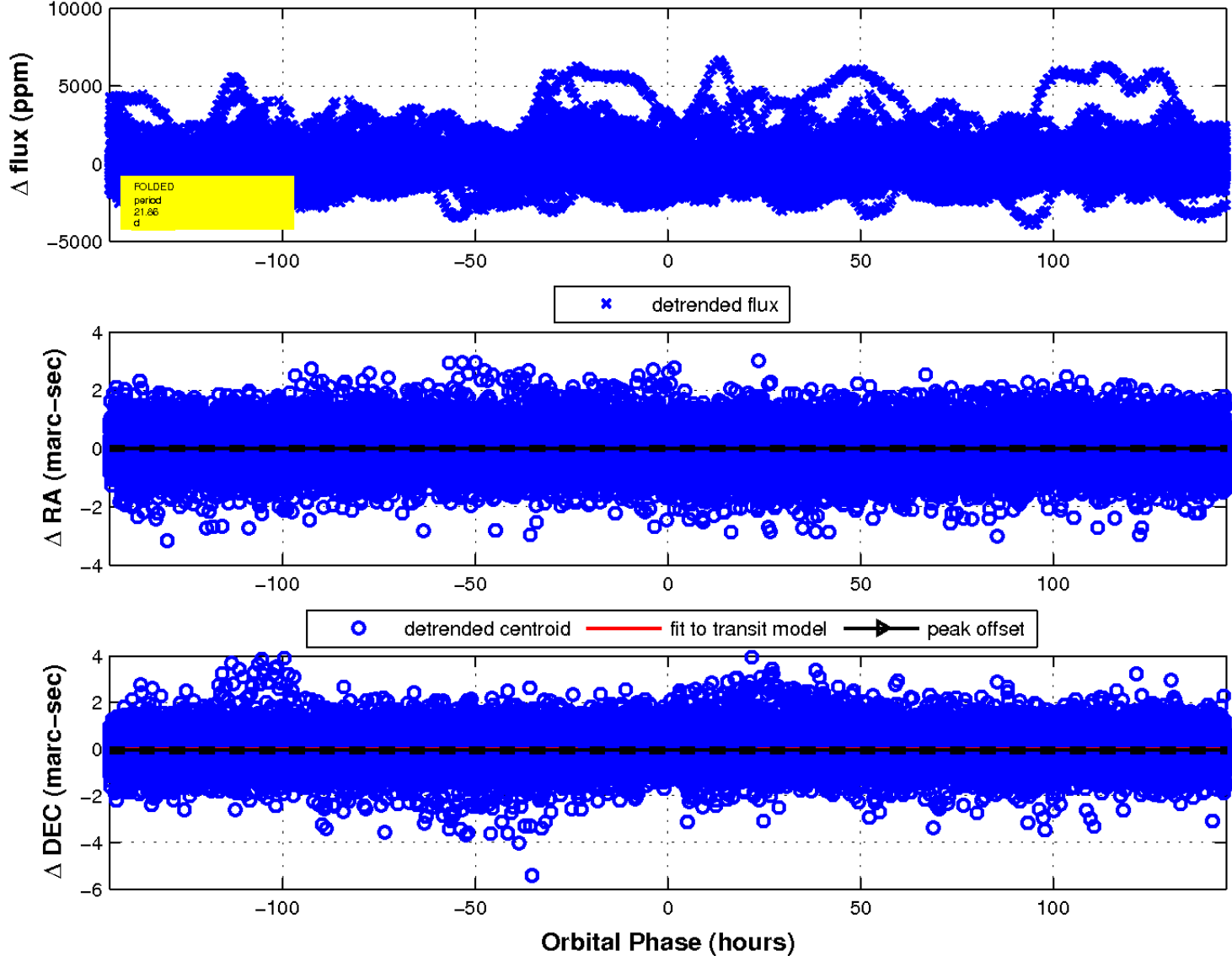
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 9 of 9



UKIRT Image

Declination

