

KIC 008260818

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})
008260818-01	OBS	No	1.450235	131.907912	58.3	5.252	11.1	7.9	1.58	7014	1.57	6858.74
008260818-02	OBS	No	1.450228	132.792445	81.8	5.973	11.5	10.1	1.58	7014	1.97	6858.78
008260818-03	OBS	No	397.242264	432.587880	1553.2	12.202	12.5	9.8	1.58	7014	7.28	3.86
008260818-05	OBS	No	10.494872	141.469916	294.7	6.244	8.7	7.3	1.58	7014	3.41	490.00
008260818-06	OBS	No	15.598895	134.646469	500.5	7.220	8.3	8.3	1.58	7014	6.72	288.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008260818-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008260818-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD
008260818-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
008260818-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008260818-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

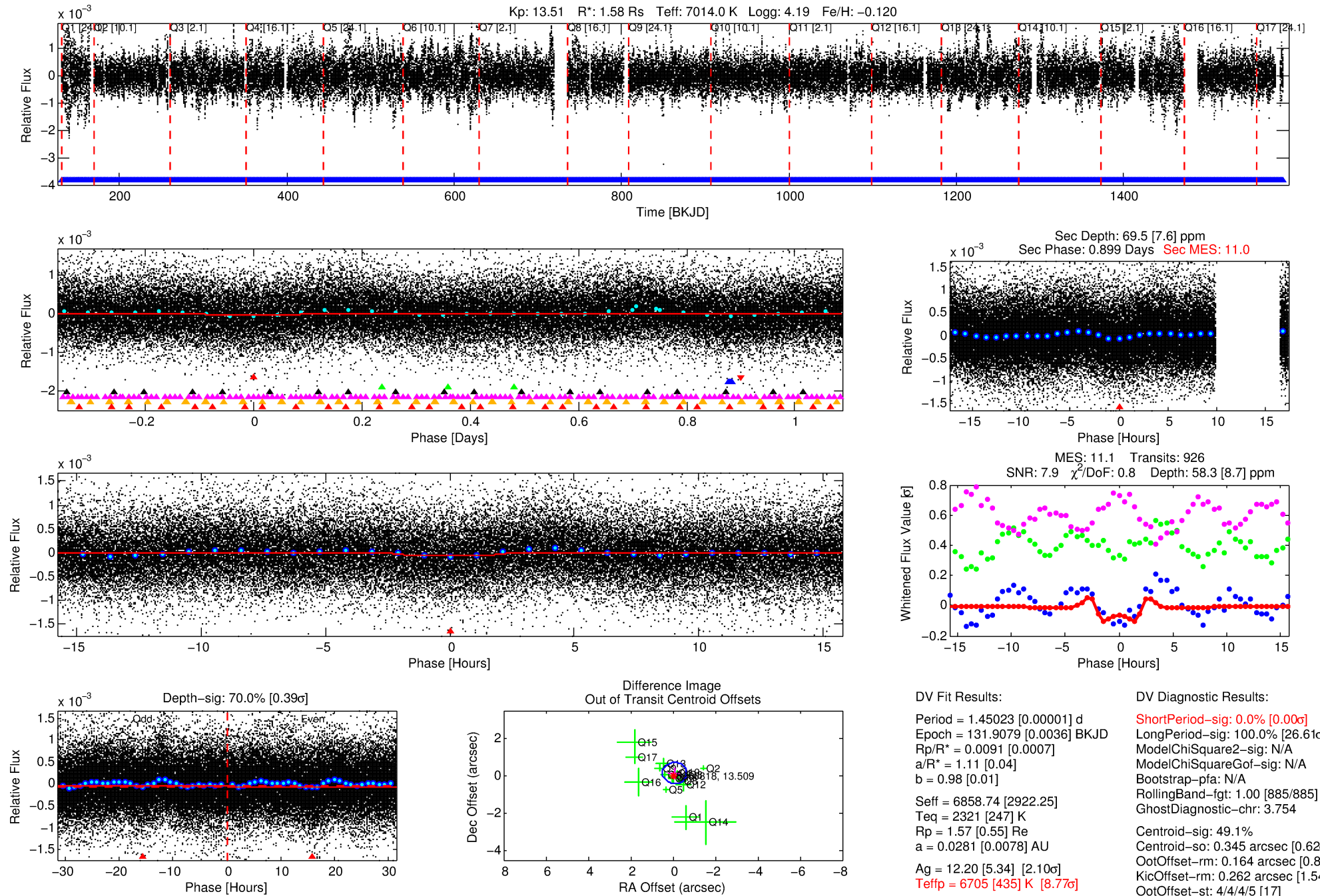
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008260818-01

No Significant Match Found

DV One-Page Summary

KIC: 8260818 Candidate: 1 of 7 Period: 1.450 d



DV Fit Results:

Period = 1.45023 [0.00001] d
Epoch = 131.9079 [0.0036] BKJD
Rp/R* = 0.0091 [0.0007]
a/R* = 1.11 [0.04]
b = 0.98 [0.01]
Seff = 6858.74 [2922.25]
Teq = 2321 [247] K
Rp = 1.57 [0.55] Re
a = 0.0281 [0.0078] AU
Ag = 12.20 [5.34] [2.10 σ]
Teffp = 6705 [435] K [8.77 σ]

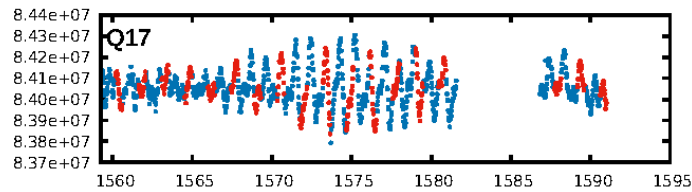
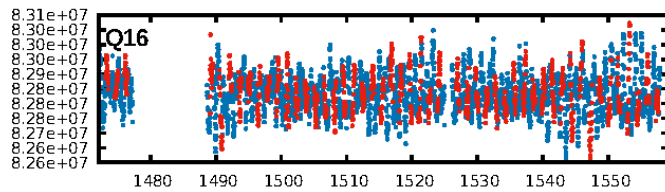
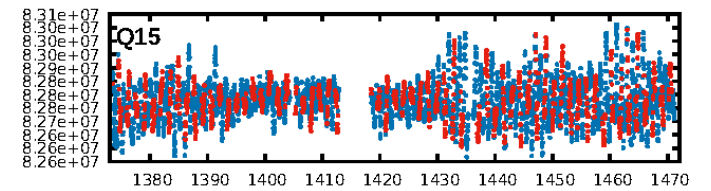
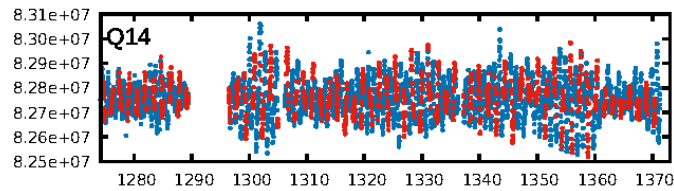
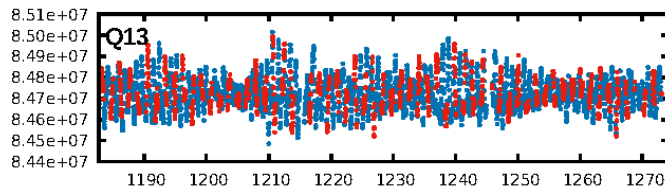
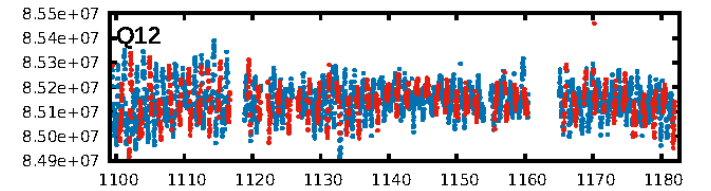
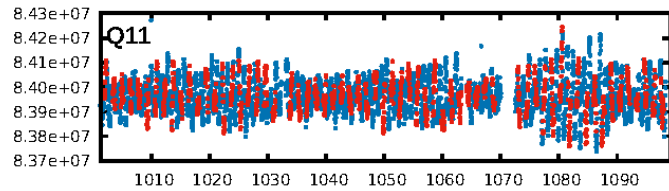
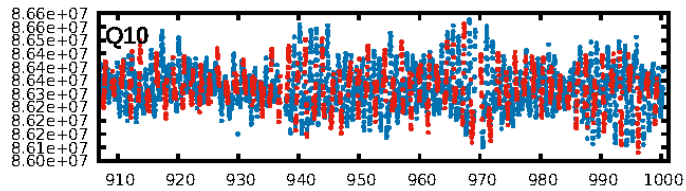
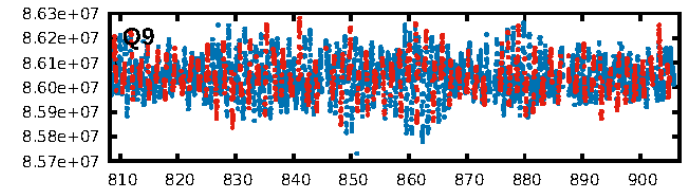
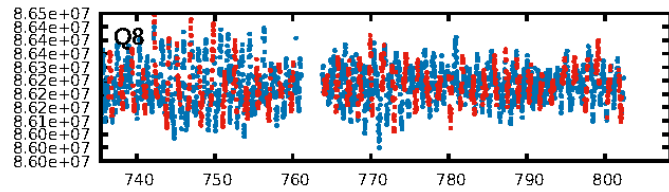
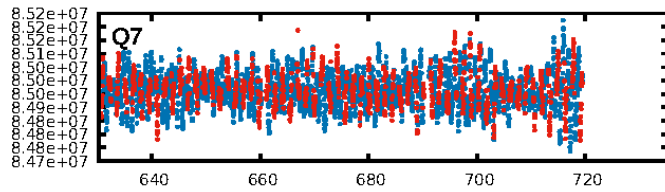
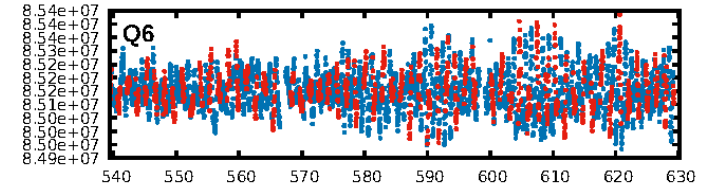
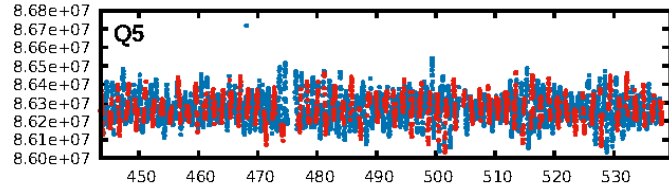
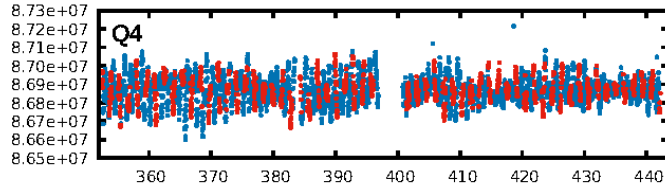
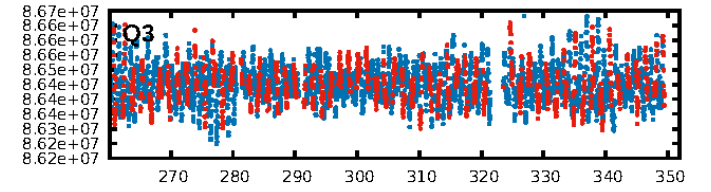
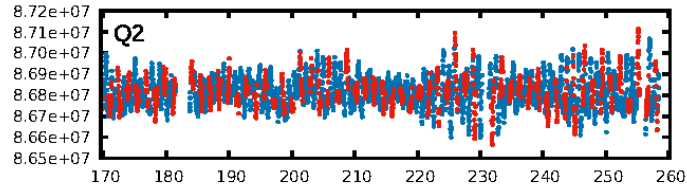
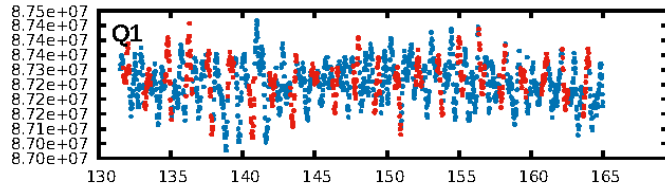
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 100.0% [26.61 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [885/885]
GhostDiagnostic-chr: 3.754
Centroid-sig: 49.1%
Centroid-so: 0.345 arcsec [0.62 σ]
OotOffset-rm: 0.164 arcsec [0.87 σ]
KicOffset-rm: 0.262 arcsec [1.54 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.76 [13/17]
DiffImageOverlap-fno: 0.00 [0/17]

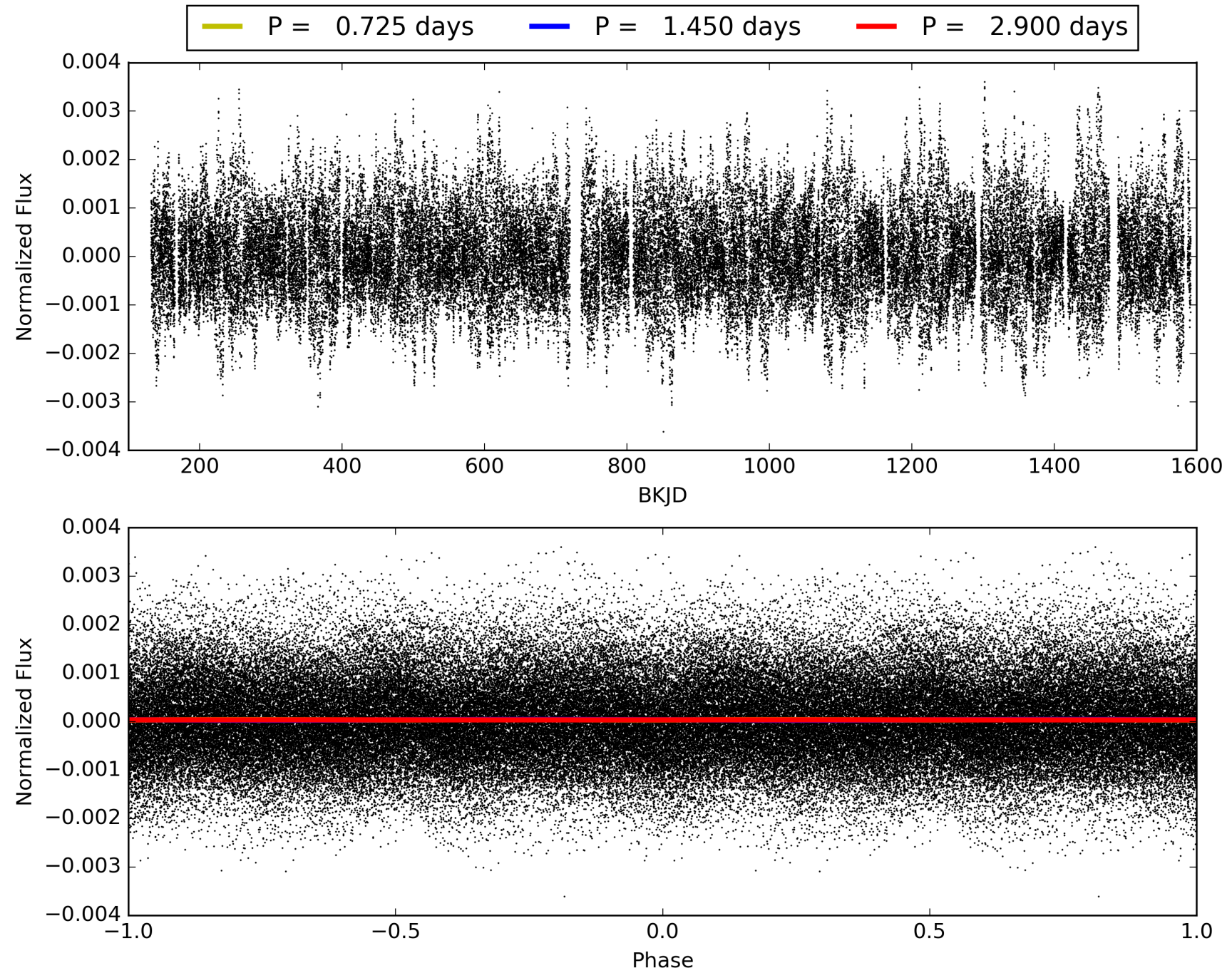
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:18:15 Z

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

TCE 008260818-01, PDC Light Curves

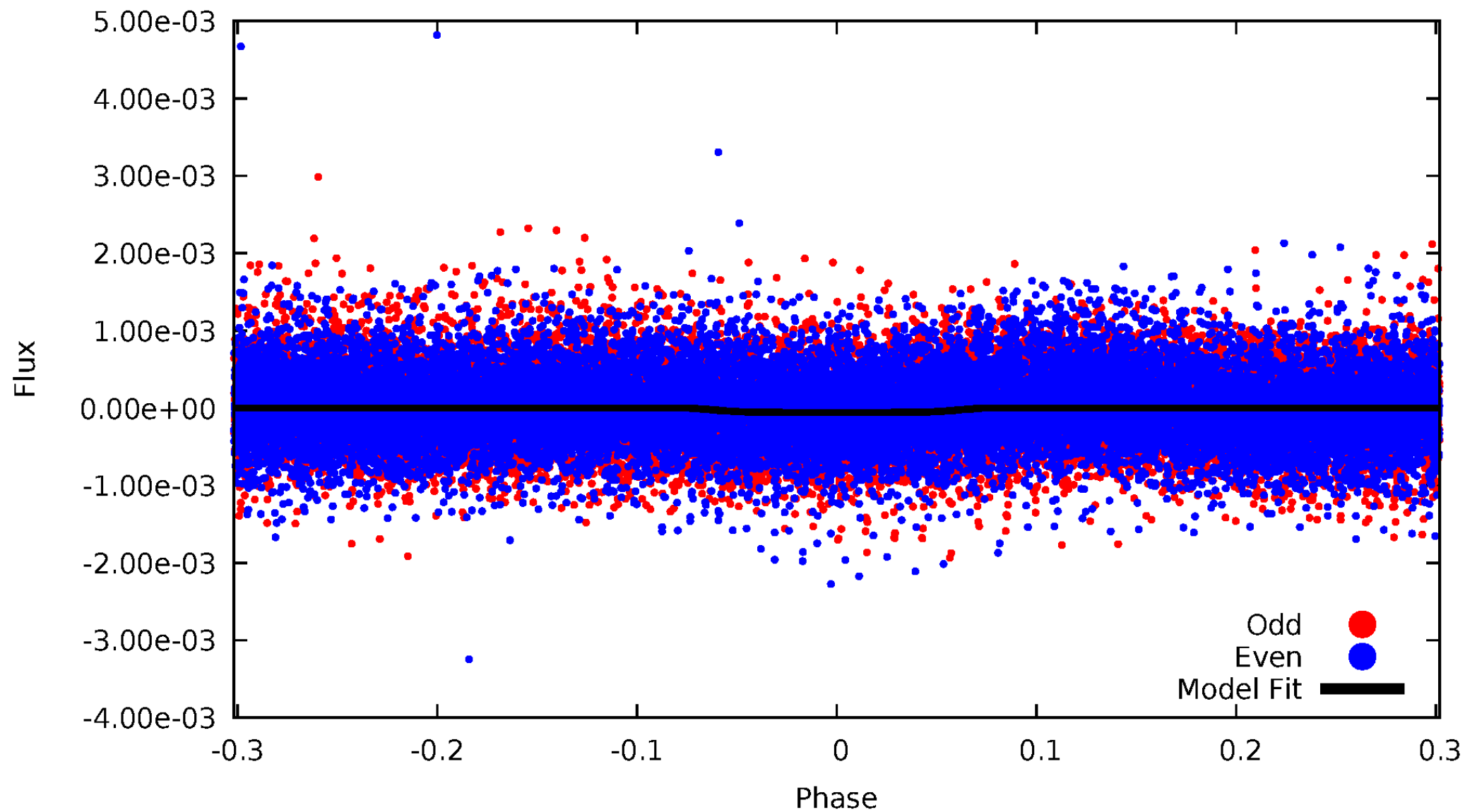


TCE 008260818-01



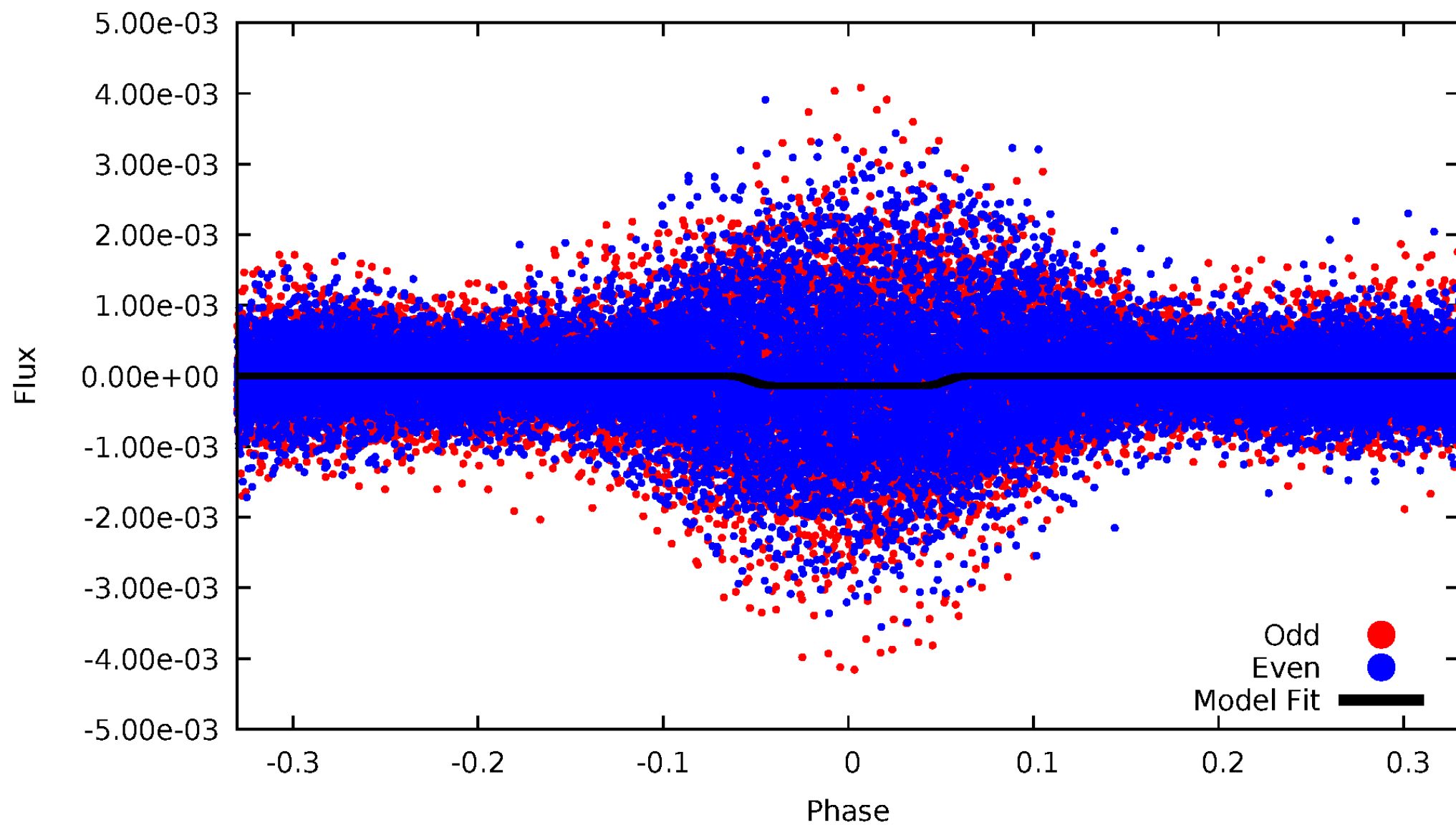
DV Odd/Even

TCE 008260818-01

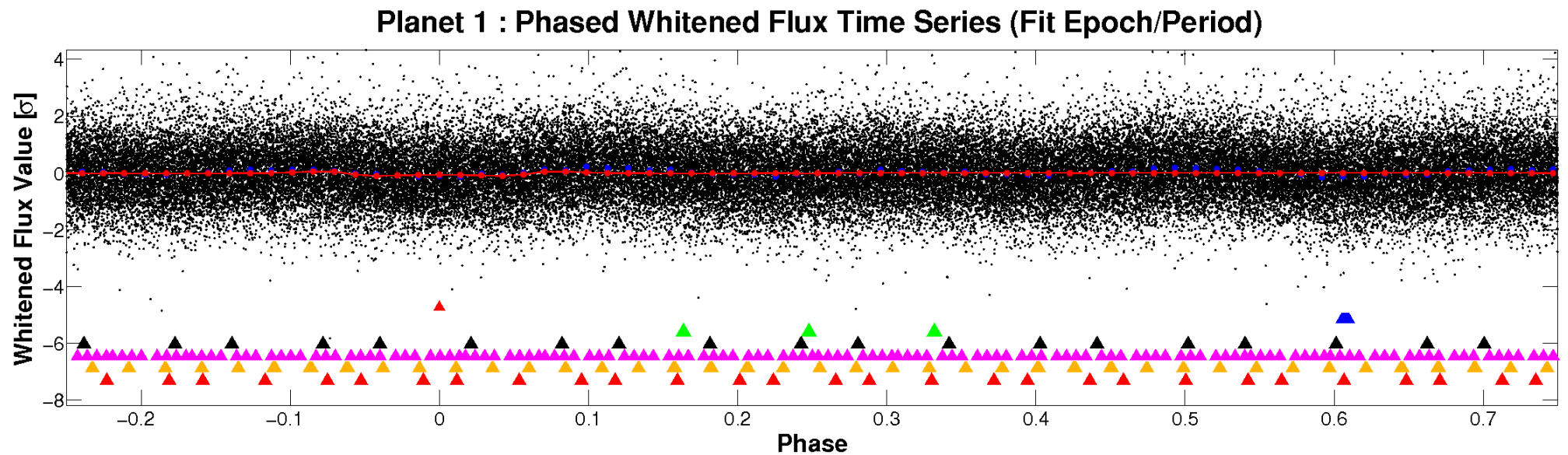
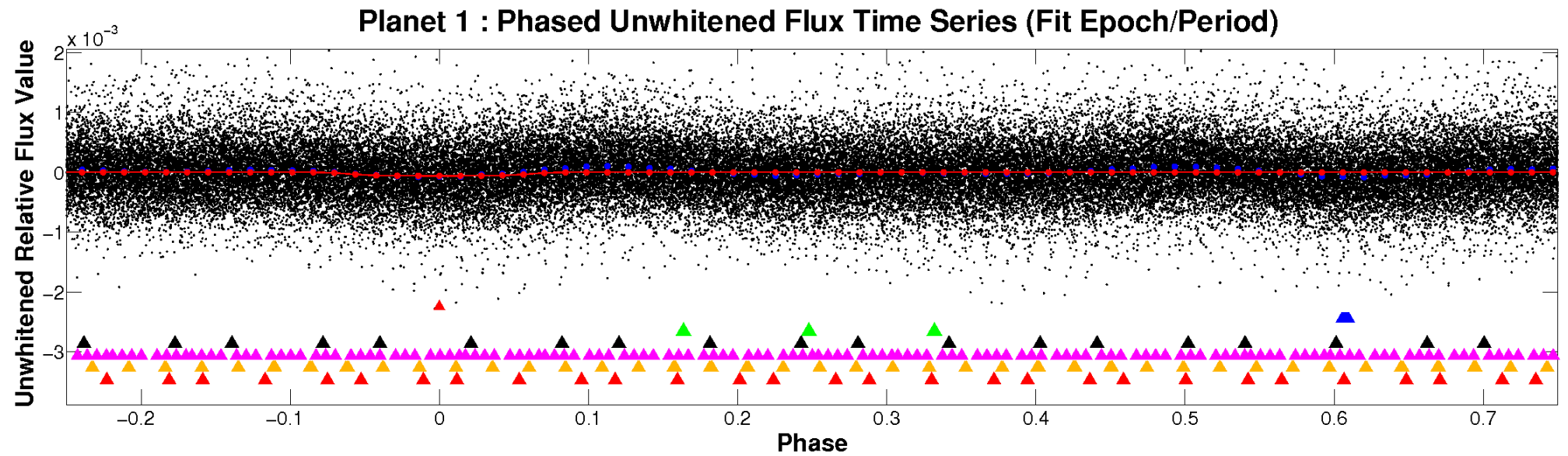


ALT Odd/Even

TCE 008260818-01

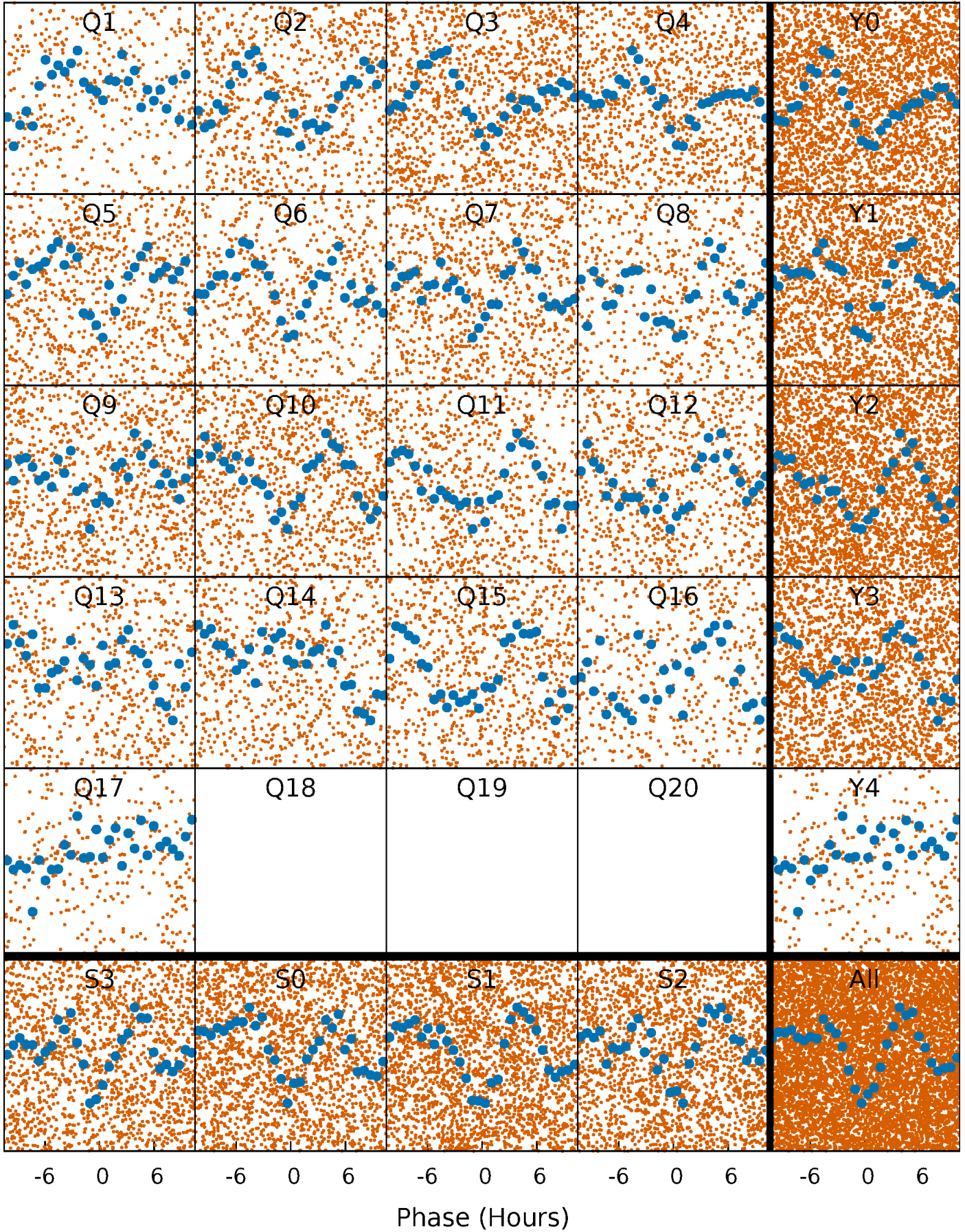


Non-Whitened Vs. Whitened Light Curve



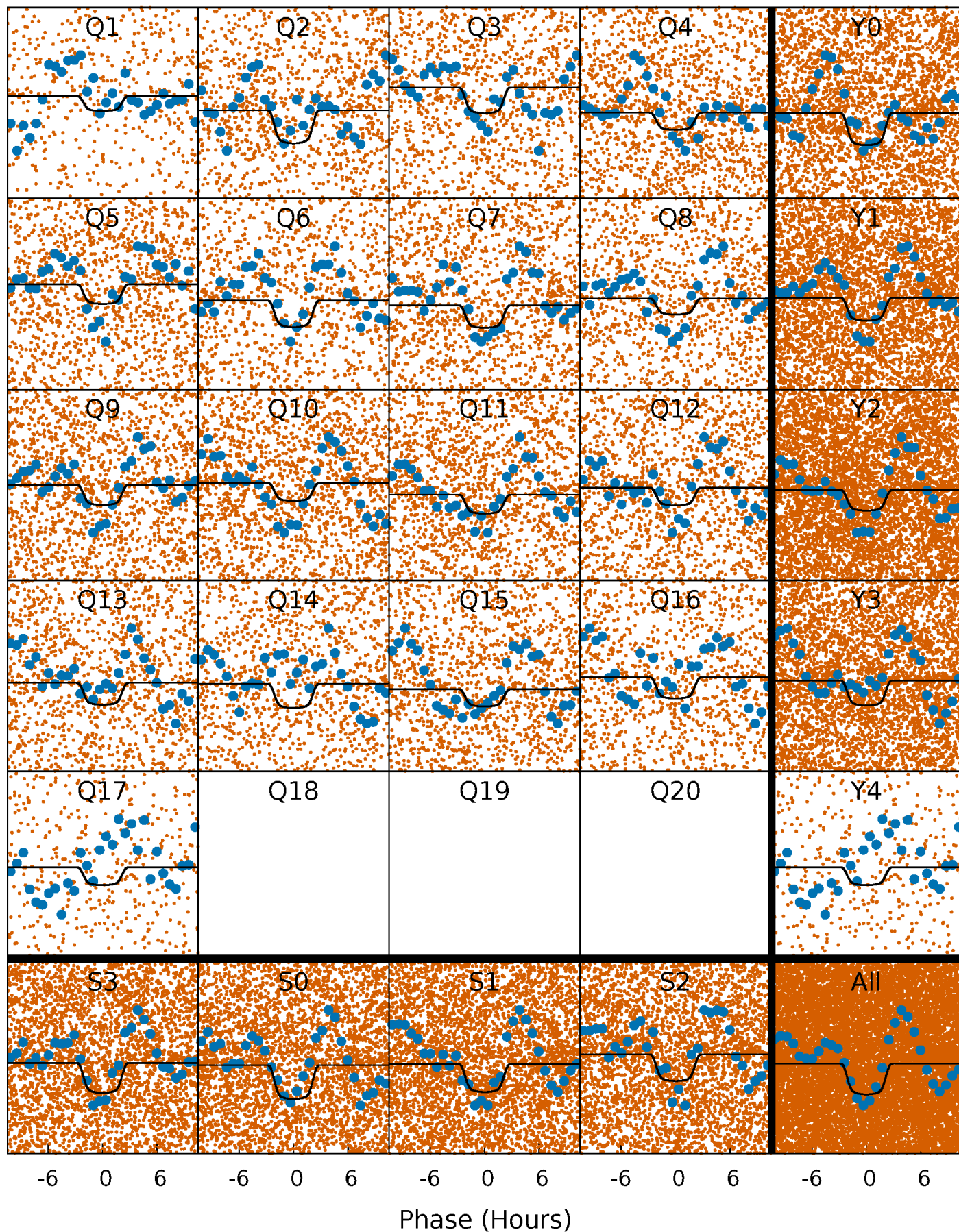
PDC Quarter-Phased Transit Curves

TCE 008260818-01 P= 1.450235 Days $T_0=131.907913$ (BKJD)



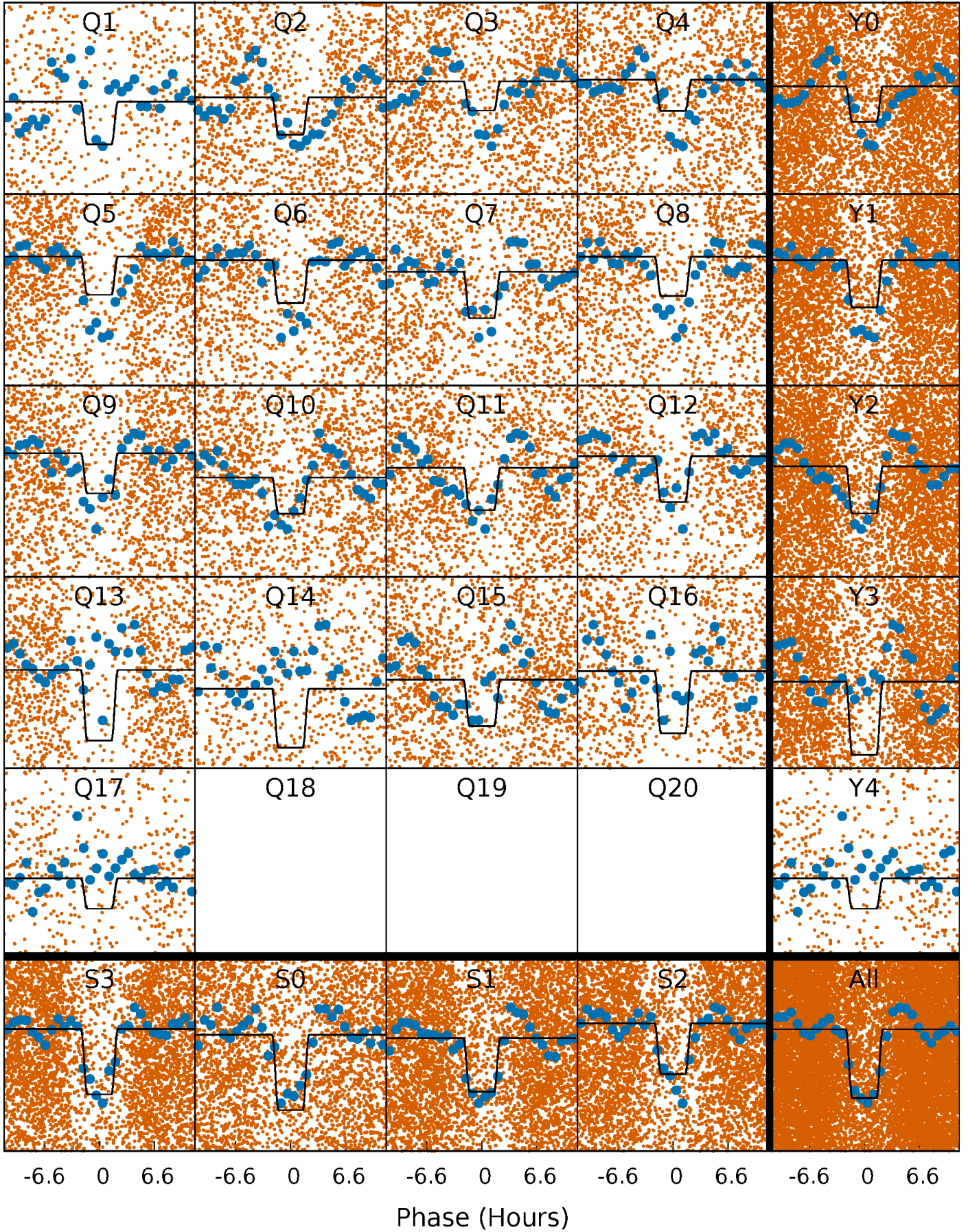
DV Quarter-Phased Transit Curves

TCE 008260818-01 P= 1.450235 Days $T_0=131.907913$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

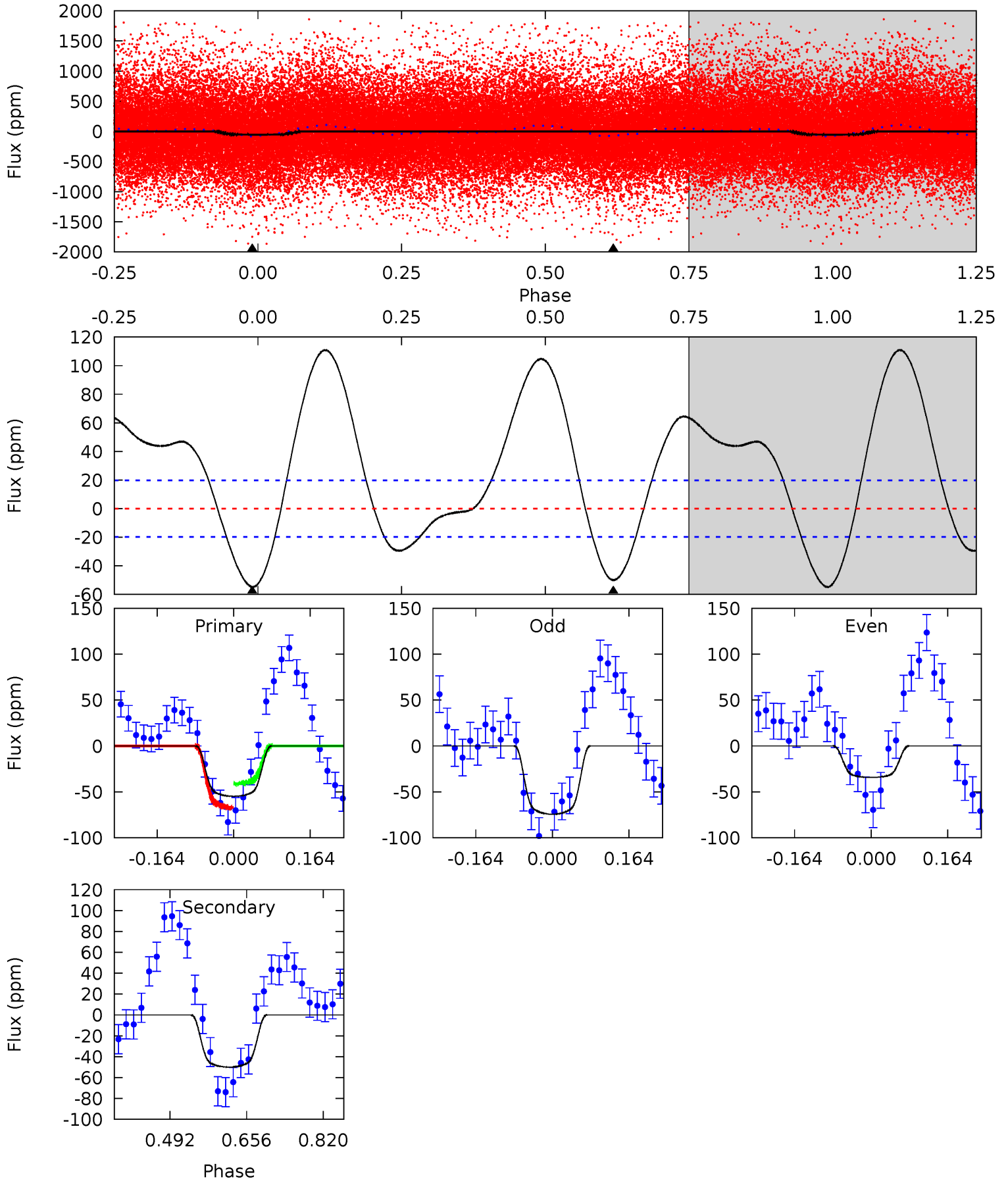
TCE 008260818-01 P= 1.450257 Days $T_0=131.894764$ (BKJD)



DV Model-Shift Uniqueness Test

008260818-01, P = 1.450235 Days, E = 130.457678 Days

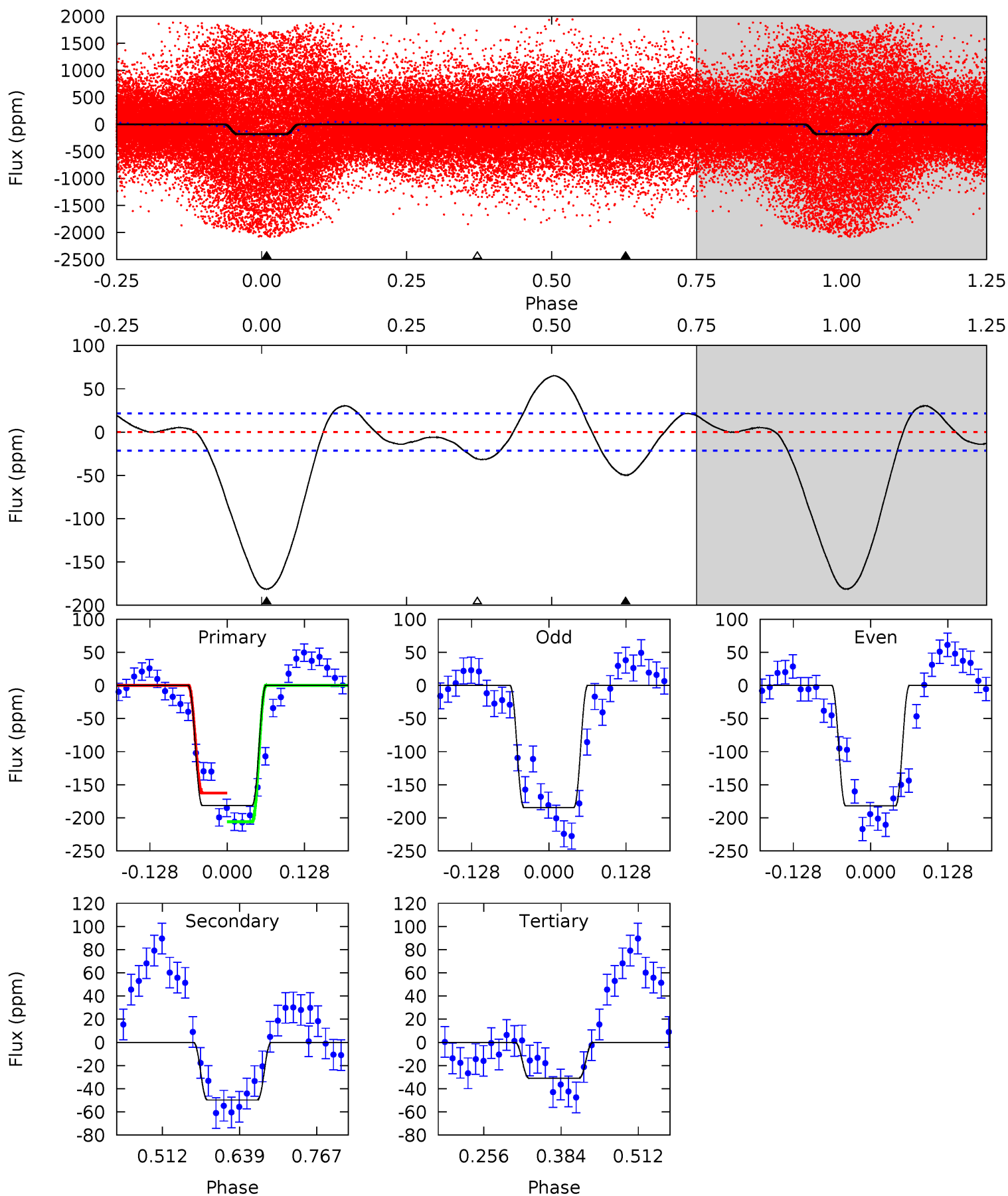
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.3	11.3	0	0	4.46	1.39	6.90	12.3	12.3	11.3	11.3	4.56	0.87	0.67	2.90



Alt Model-Shift Uniqueness Test

008260818-01, P = 1.450257 Days, E = 130.444507 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.1	10.5	6.51	0	4.51	1.52	4.53	31.6	38.1	3.96	10.5	0.26	0.76	0.26	4.61



Stellar Parameters For KIC 008260818

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7014^{+197}_{-296}	$4.188^{+0.128}_{-0.208}$	$-0.120^{+0.250}_{-0.350}$	$1.578^{+0.535}_{-0.288}$	$1.408^{+0.220}_{-0.242}$	$0.504^{+0.321}_{-0.265}$
	+3%/-4%	+3%/-5%	+208%/-292%	+34%/-18%	+16%/-17%	+64%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008260818-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-50 ± 4	$1.60^{+0.31}_{-0.22}$	3263^{+251}_{-207}	6036^{+333}_{-331}	$8.387^{+2.669}_{-2.438}$
Alt.	-50 ± 5	$2.04^{+0.40}_{-0.27}$	3258^{+273}_{-202}	5345^{+255}_{-258}	$5.030^{+1.689}_{-1.412}$

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 $A_{obs} \gg 1.0$

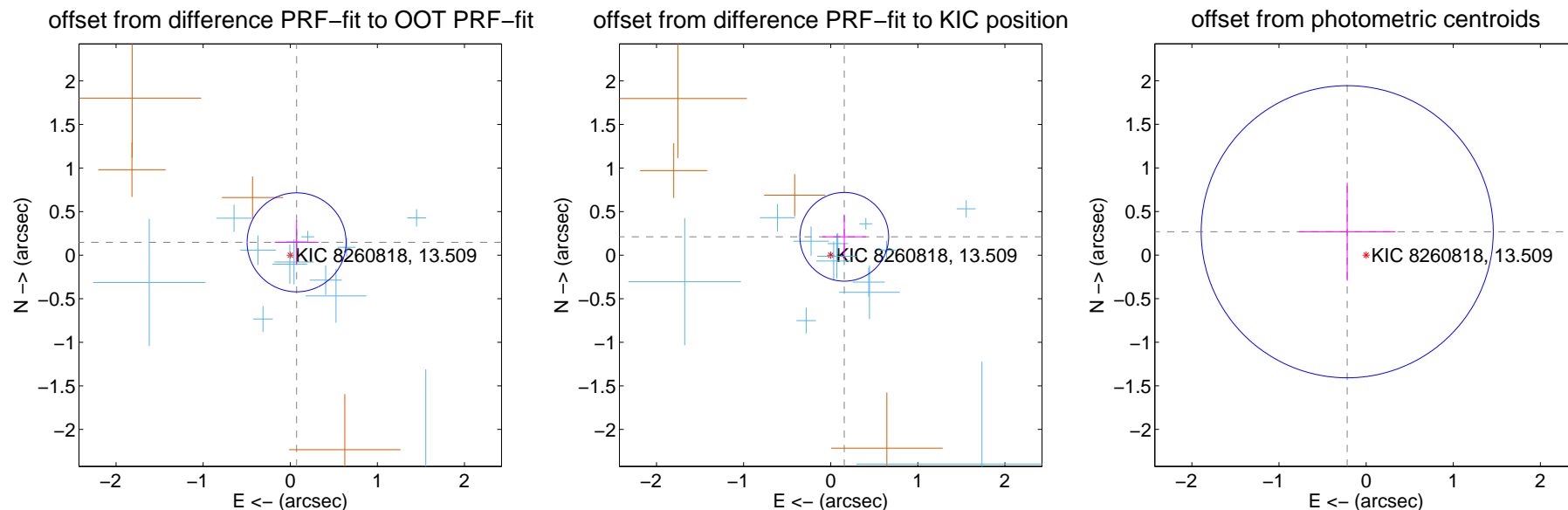
DV Centroid Data

Supplemental centroid analysis for 008260818-01. Kepler magnitude: 13.51. Transit SNR 7.92

There are 13 quarters with good PRF difference image offsets

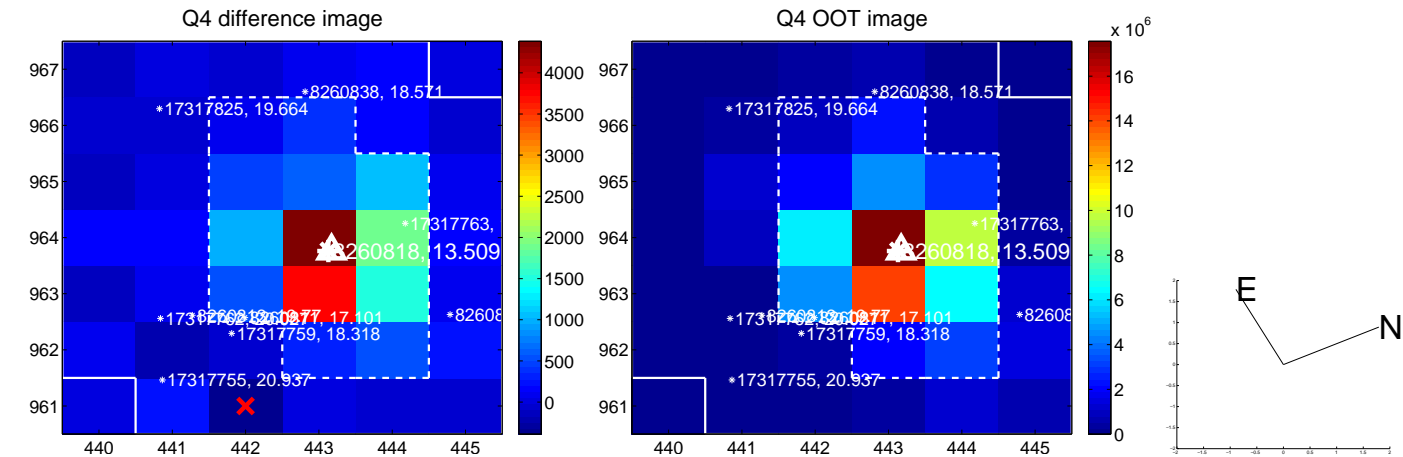
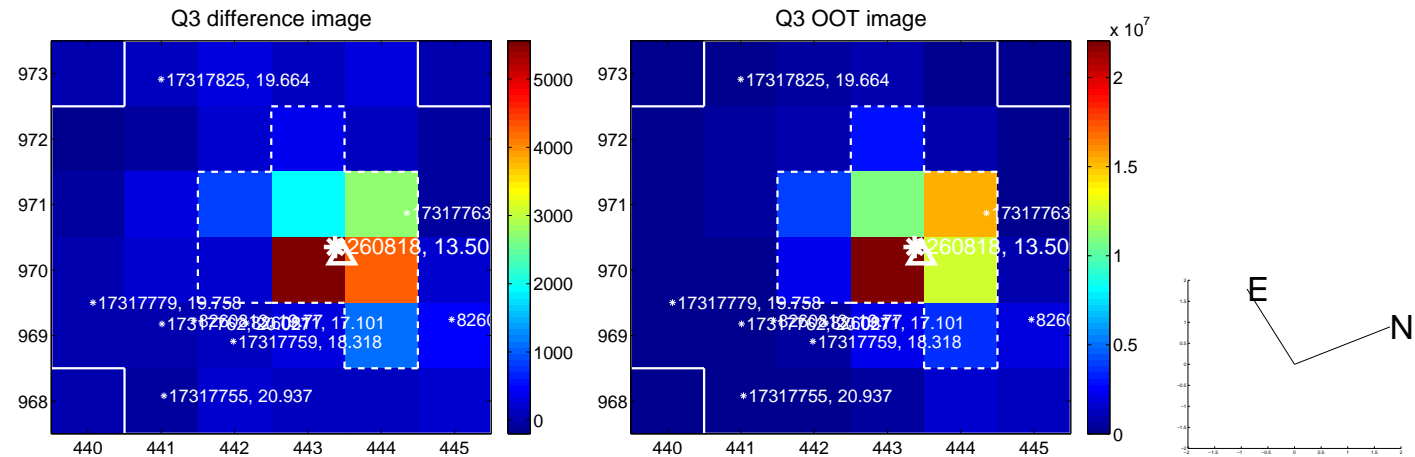
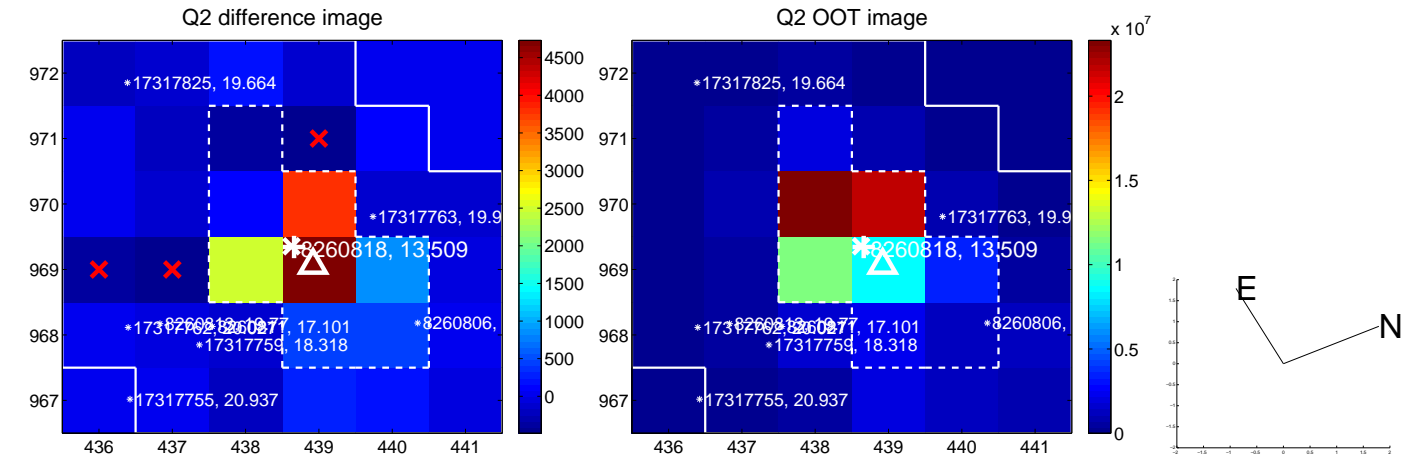
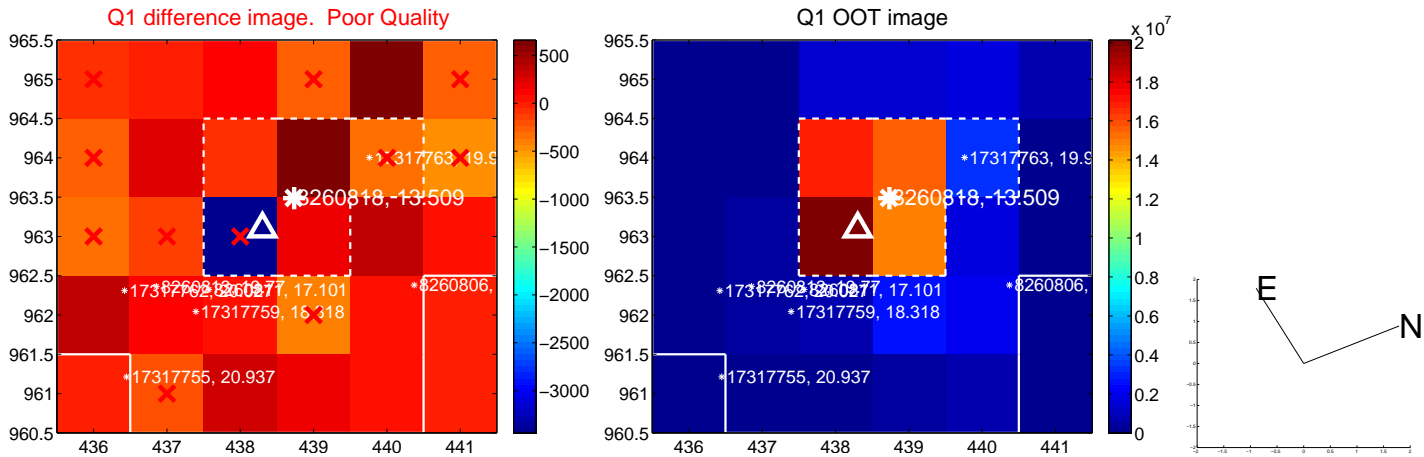
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.164 ± 0.189	0.87	-0.073 ± 0.251	0.147 ± 0.252
PRF-fit source offset from KIC position	0.262 ± 0.170	1.54	-0.156 ± 0.251	0.211 ± 0.246
photometric centroid source offset	0.34 ± 0.56	0.62	0.22 ± 0.55	0.27 ± 0.56

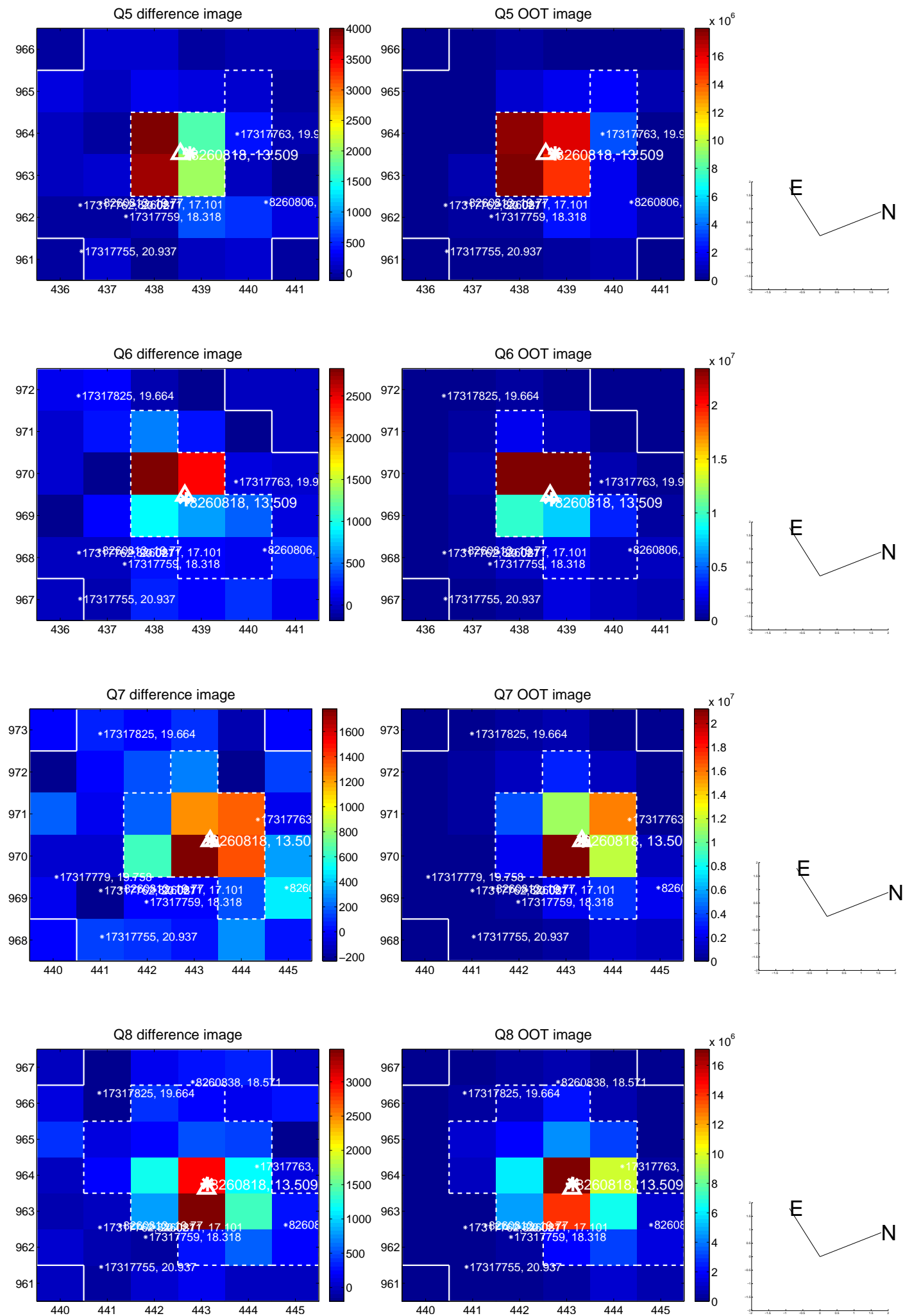


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

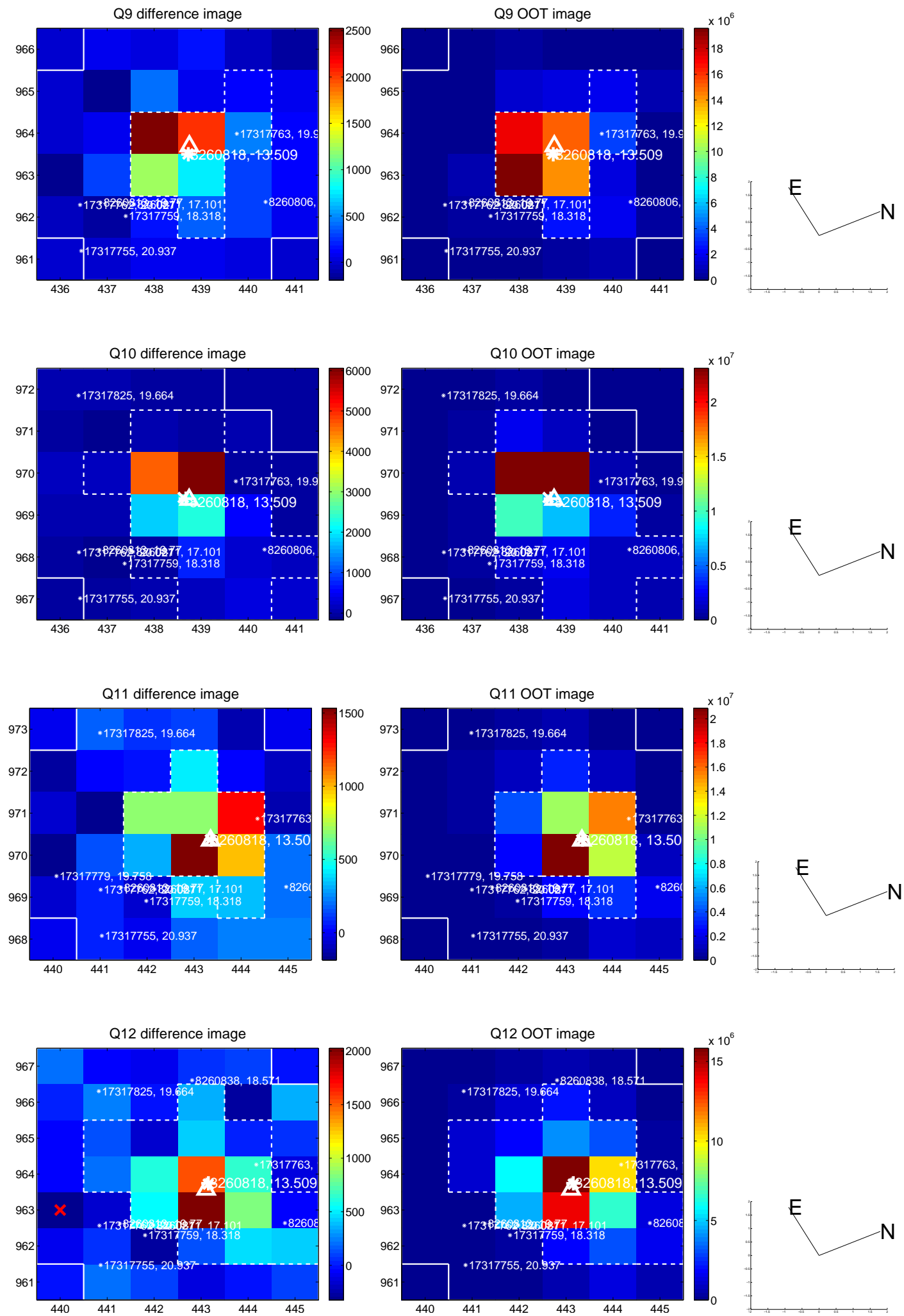
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



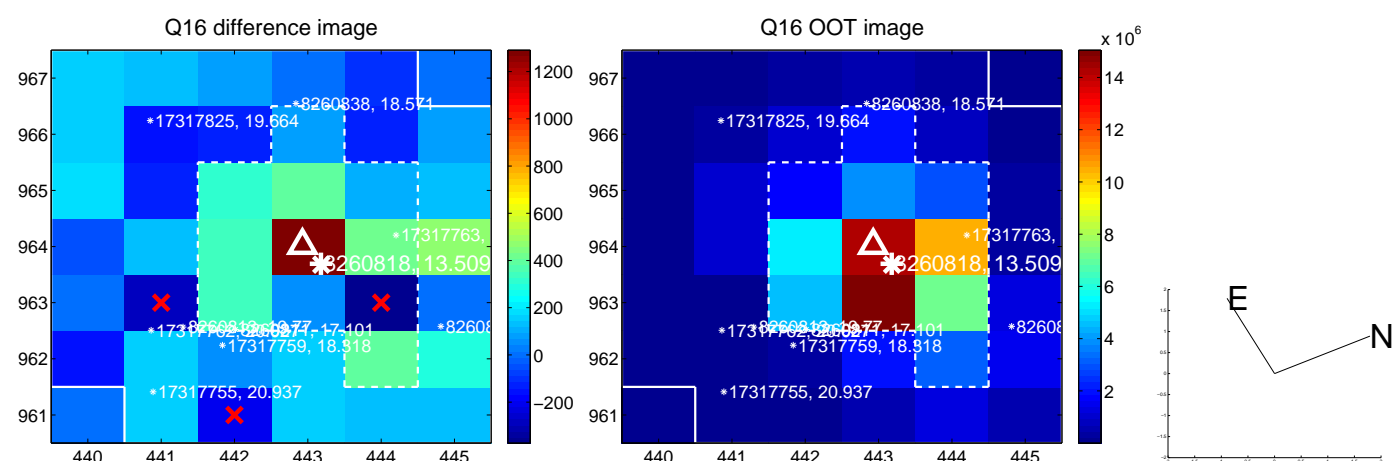
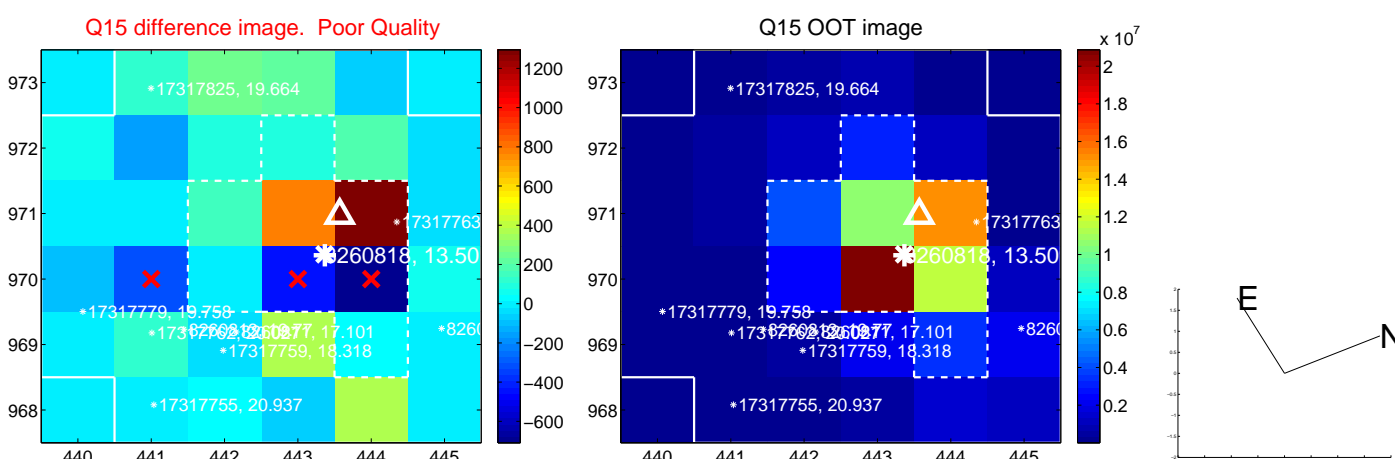
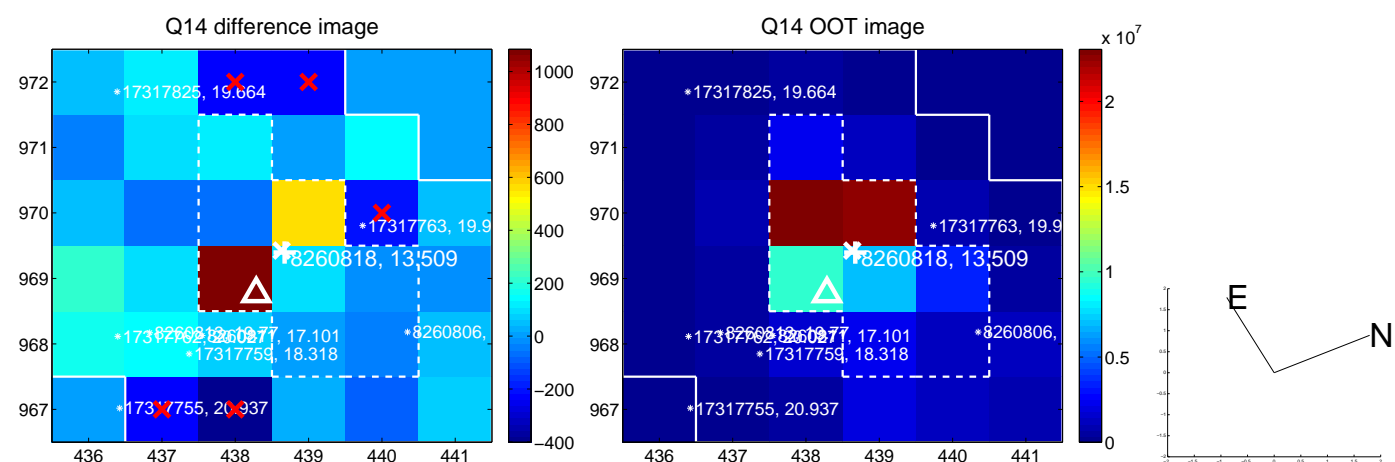
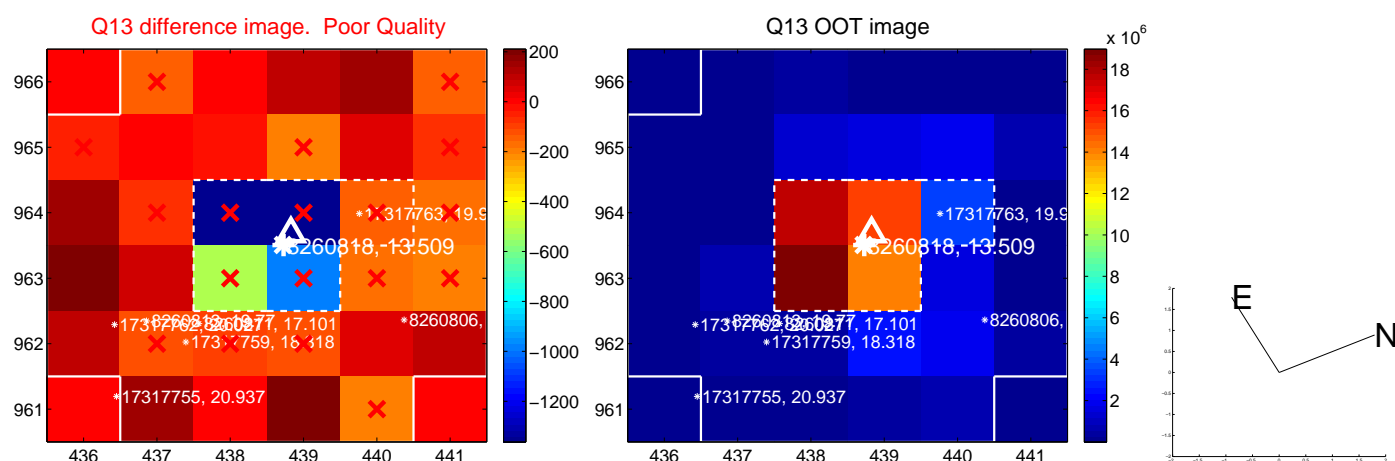
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



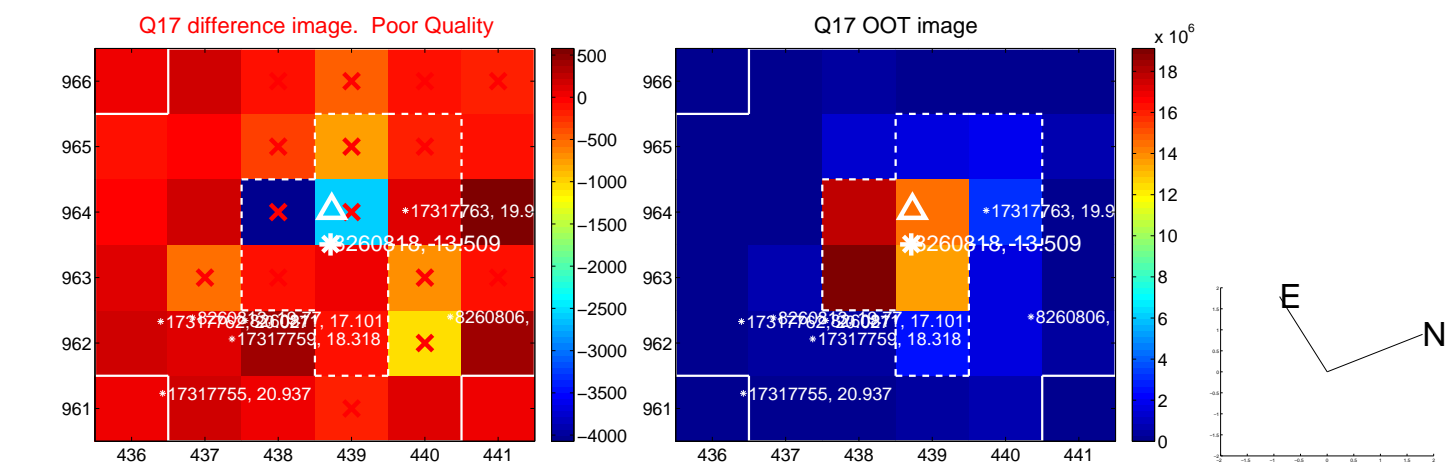
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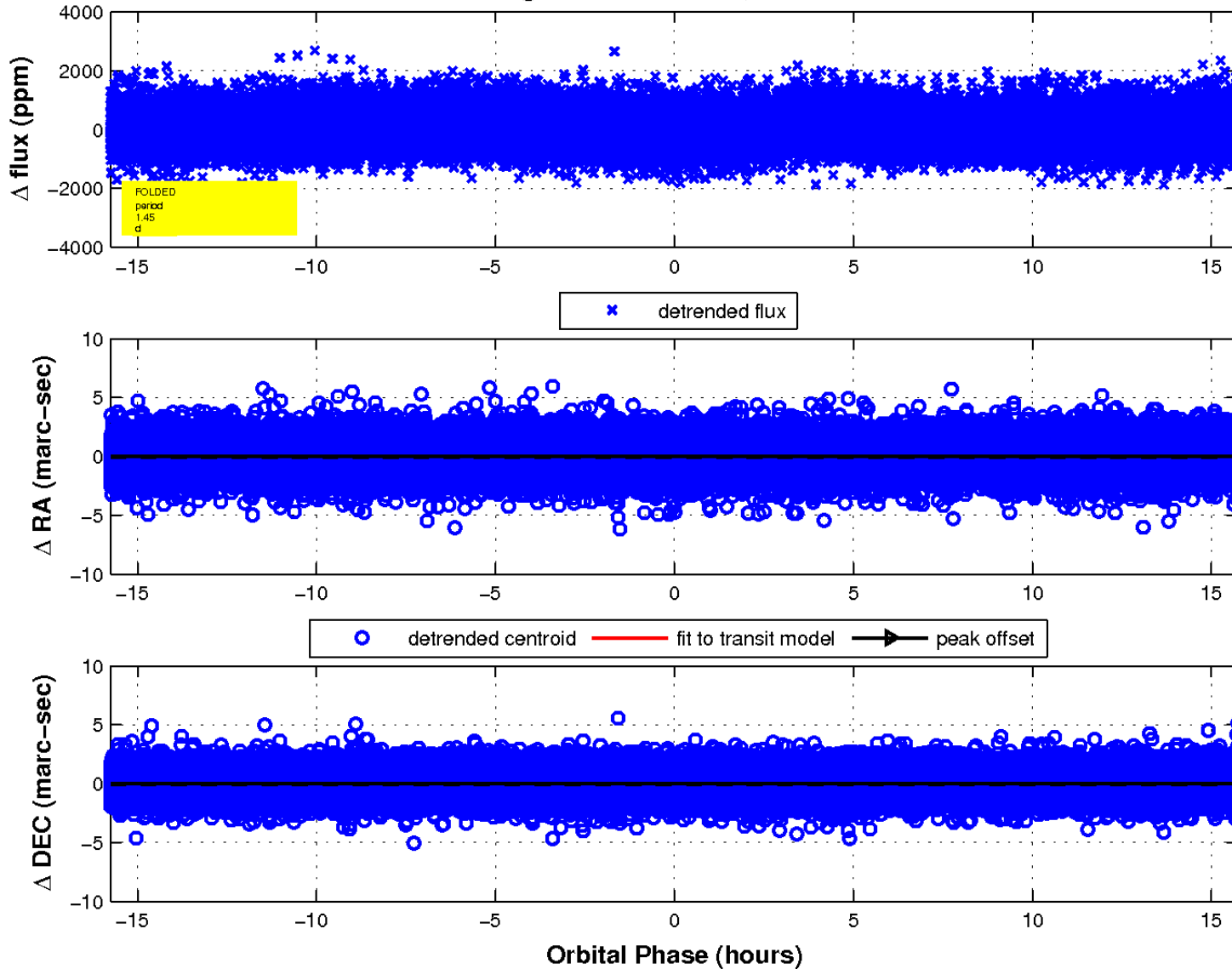
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

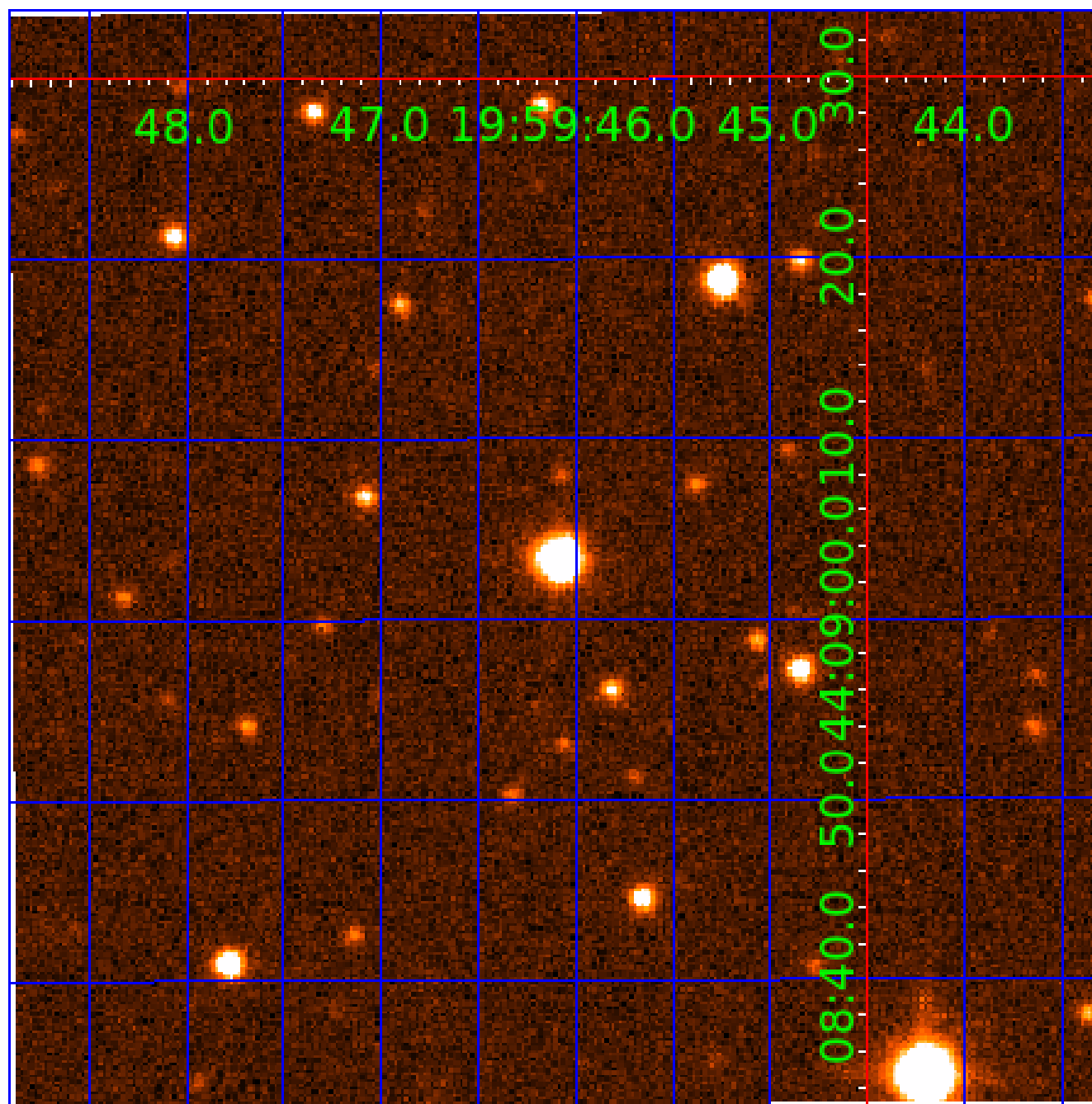


fluxWeightedCentroids, Planet 1 of 7



UKIRT Image

Declination



KIC 008260818

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})
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008260818-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD
008260818-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
008260818-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008260818-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

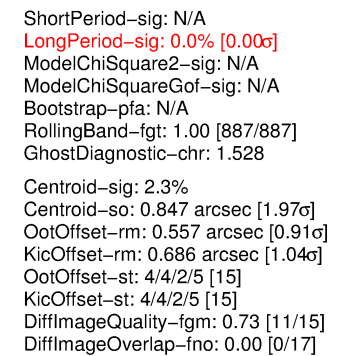
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 008260818-02

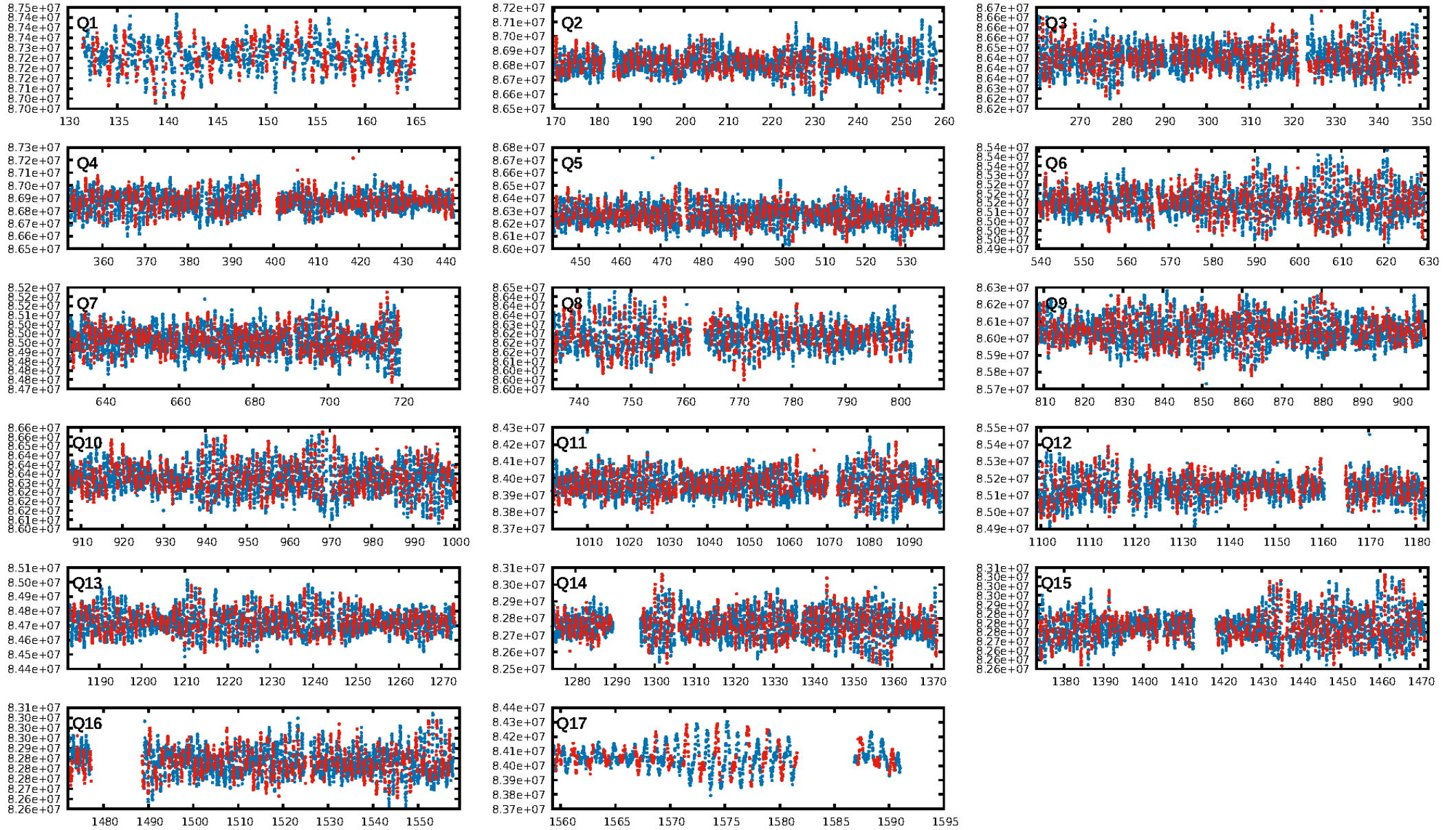
No Significant Match Found

KIC: 8260818 Candidate: 2 of 7 Period: 1.450 d

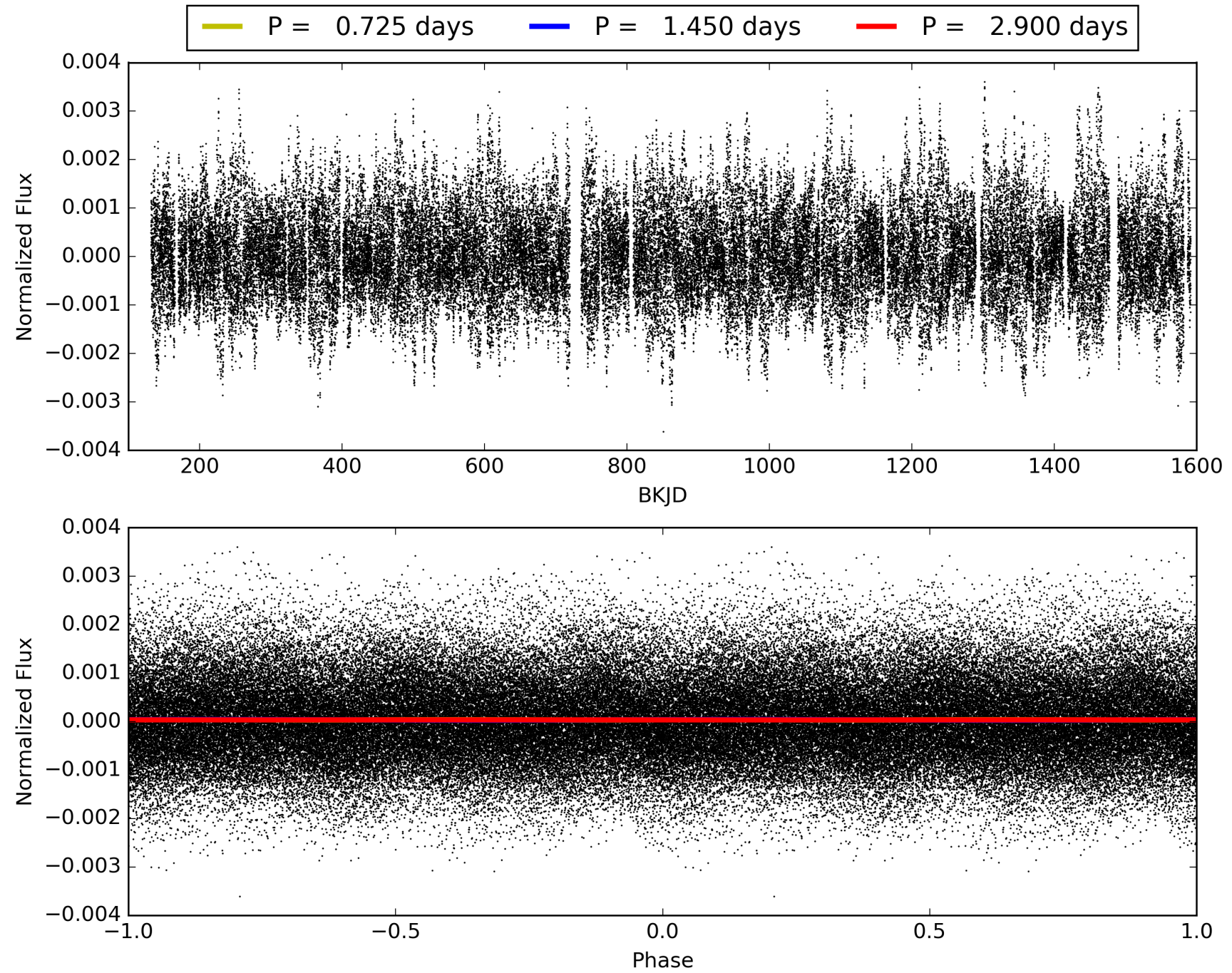


This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008260818-02, PDC Light Curves

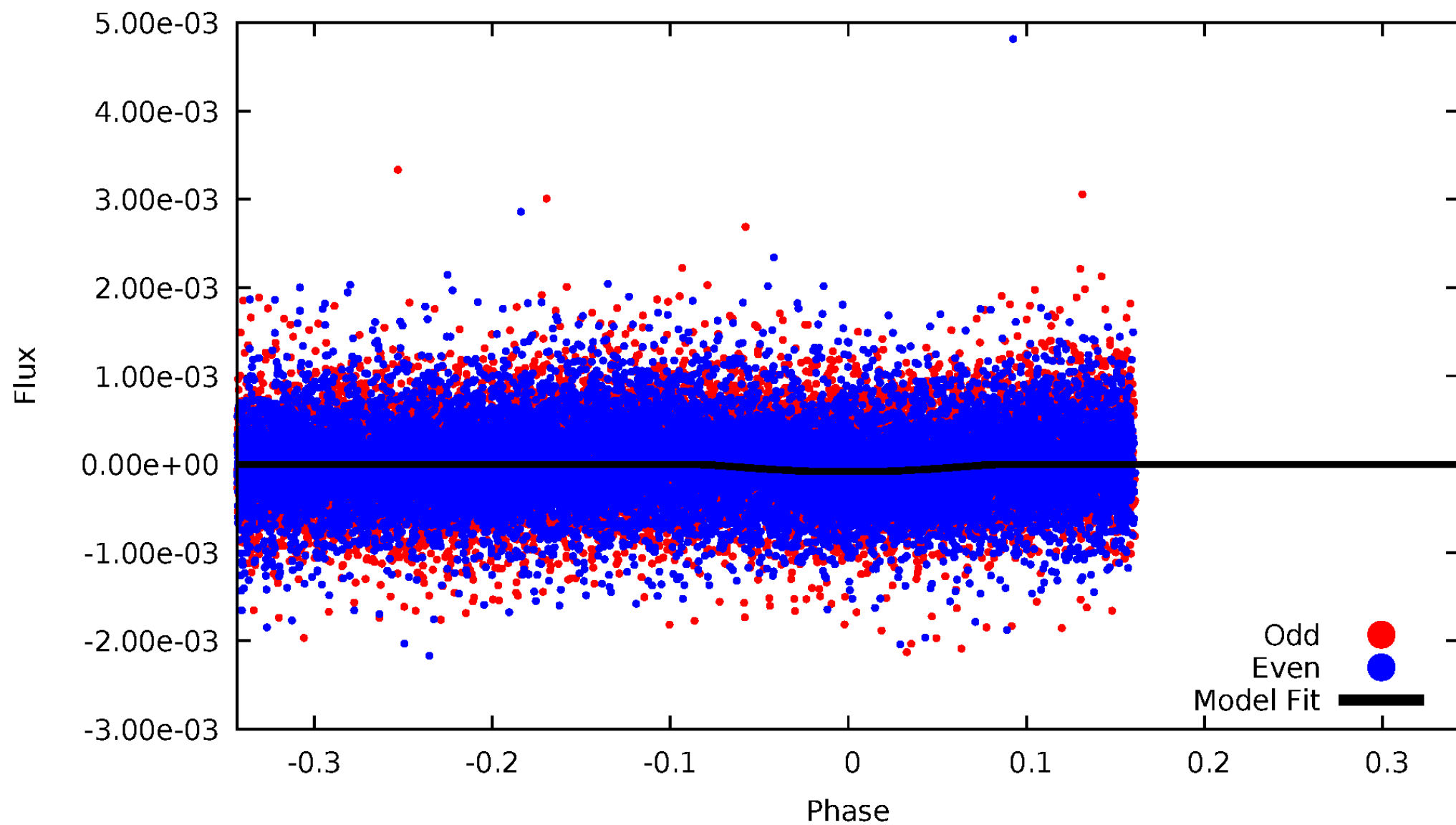


TCE 008260818-02



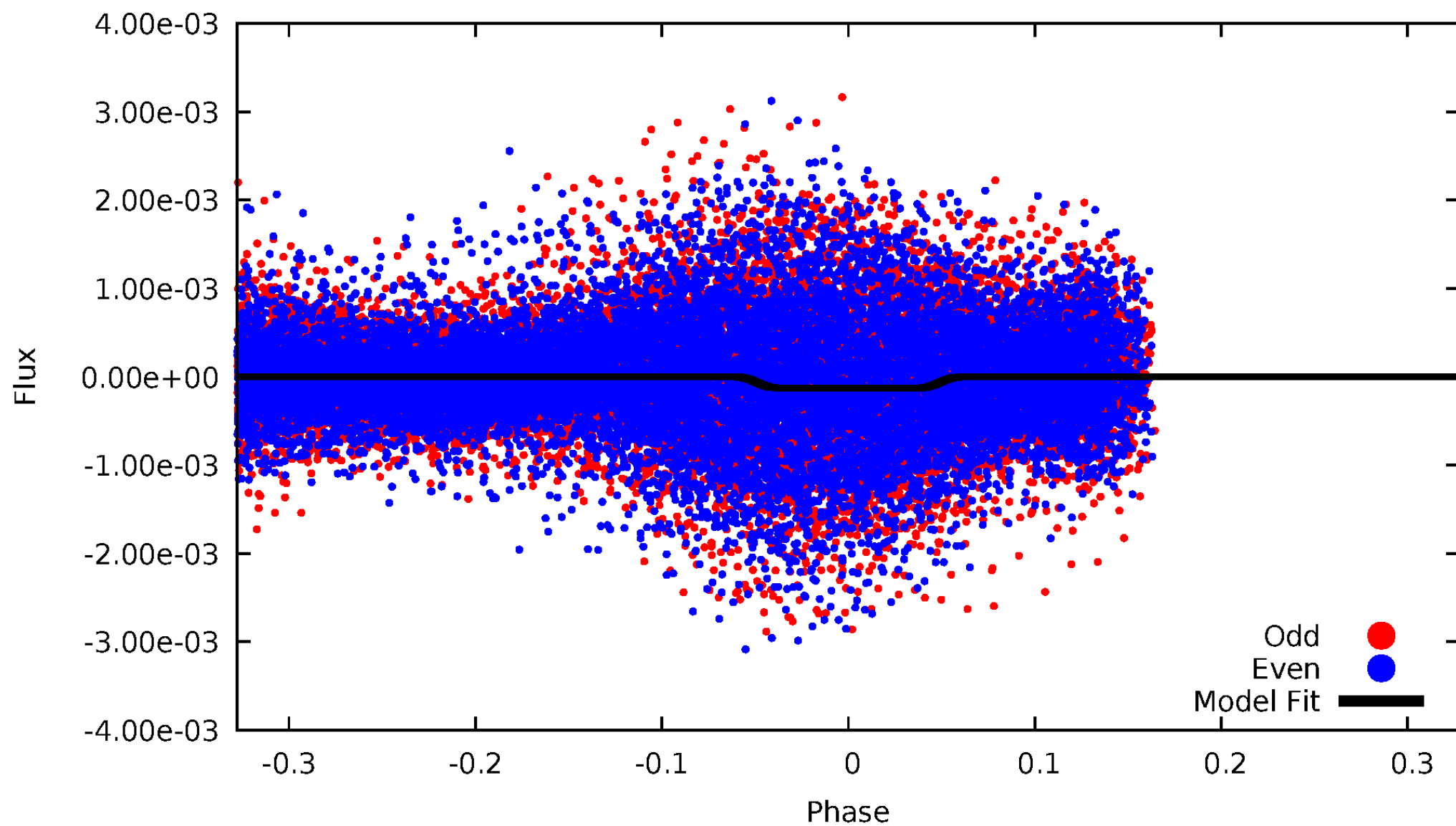
DV Odd/Even

TCE 008260818-02



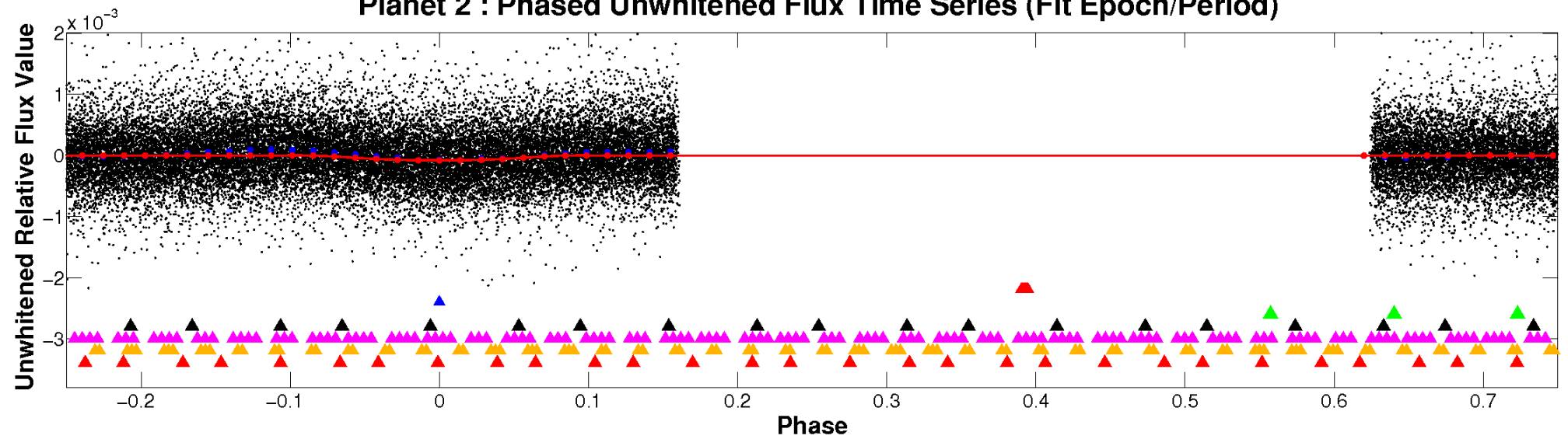
ALT Odd/Even

TCE 008260818-02

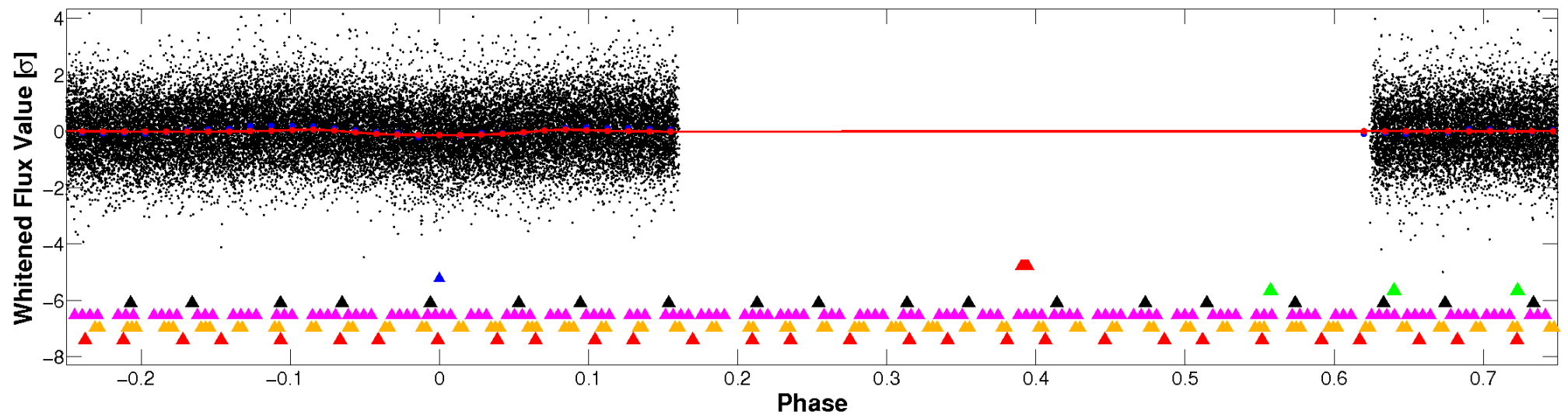


Non-Whitened Vs. Whitened Light Curve

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

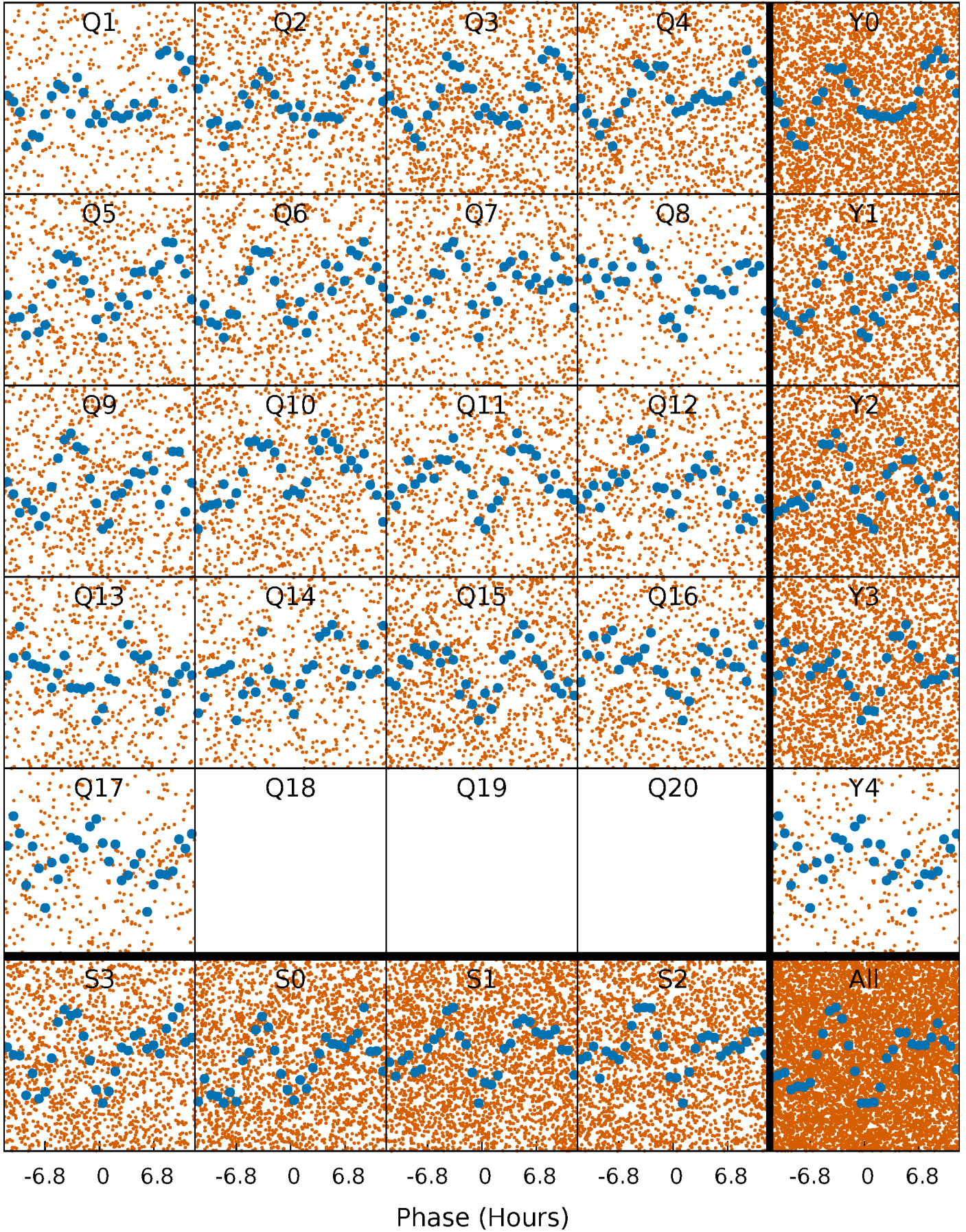


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



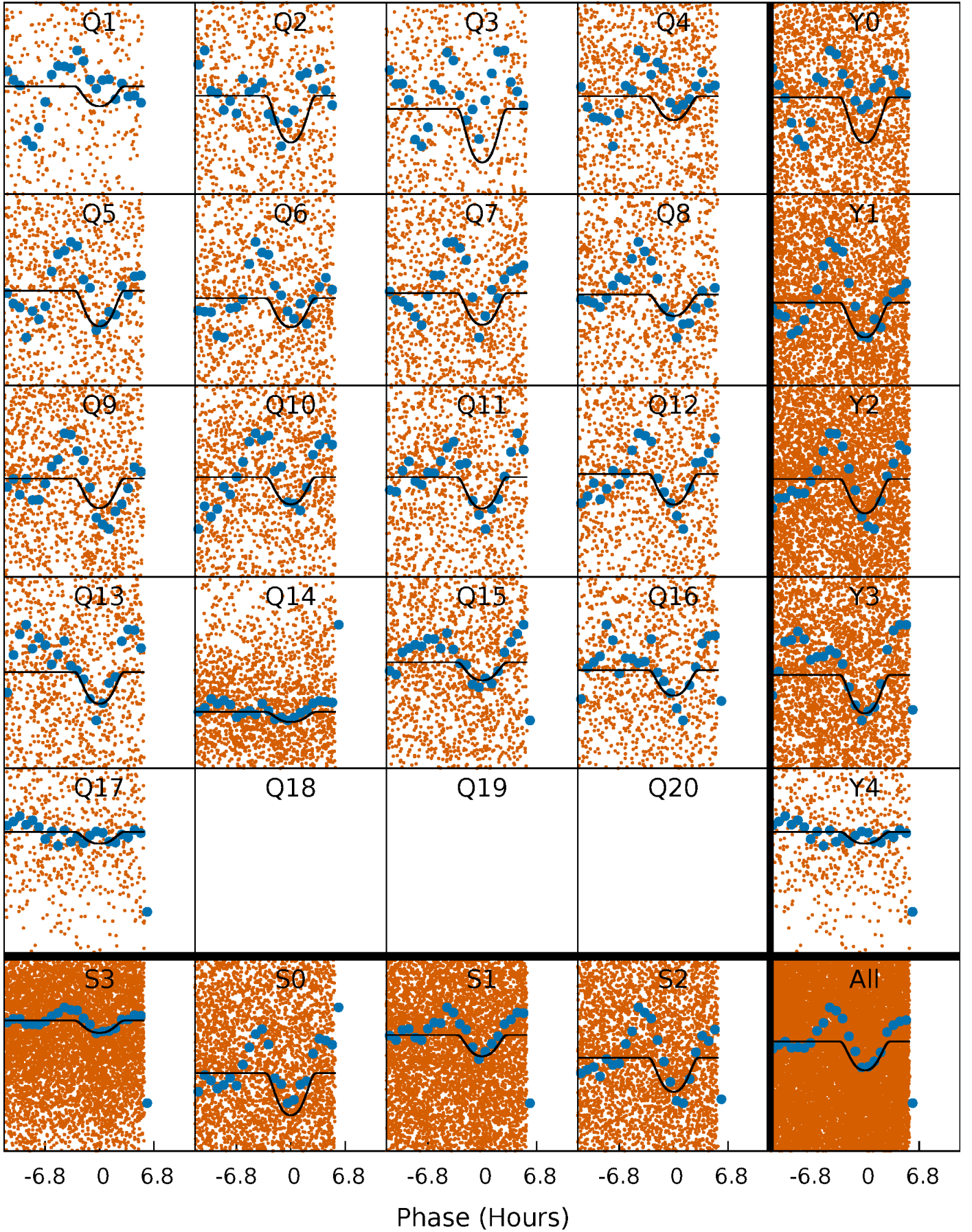
PDC Quarter-Phased Transit Curves

TCE 008260818-02 P= 1.450228 Days $T_0=132.792445$ (BKJD)



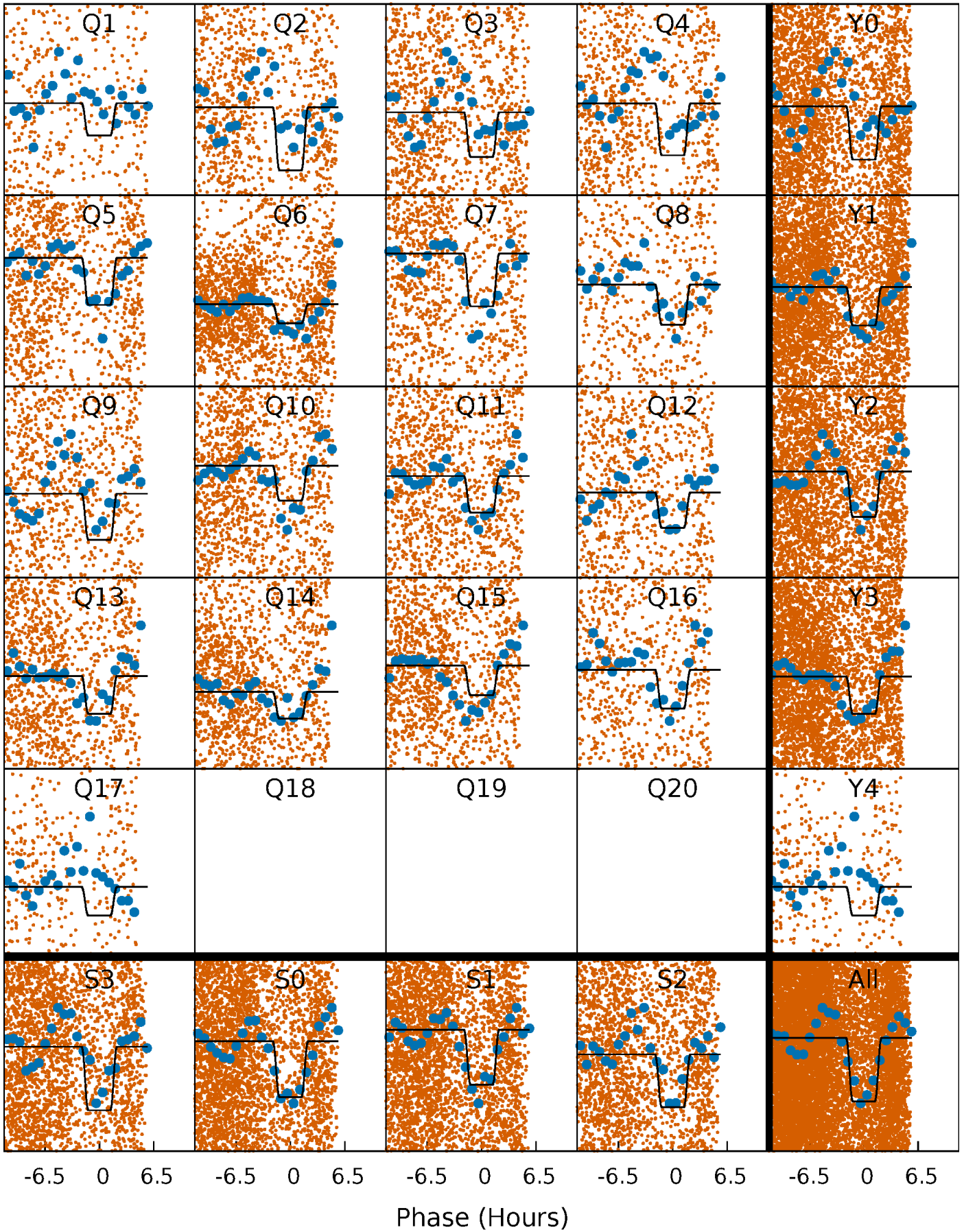
DV Quarter-Phased Transit Curves

TCE 008260818-02 P= 1.450228 Days $T_0=132.792445$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

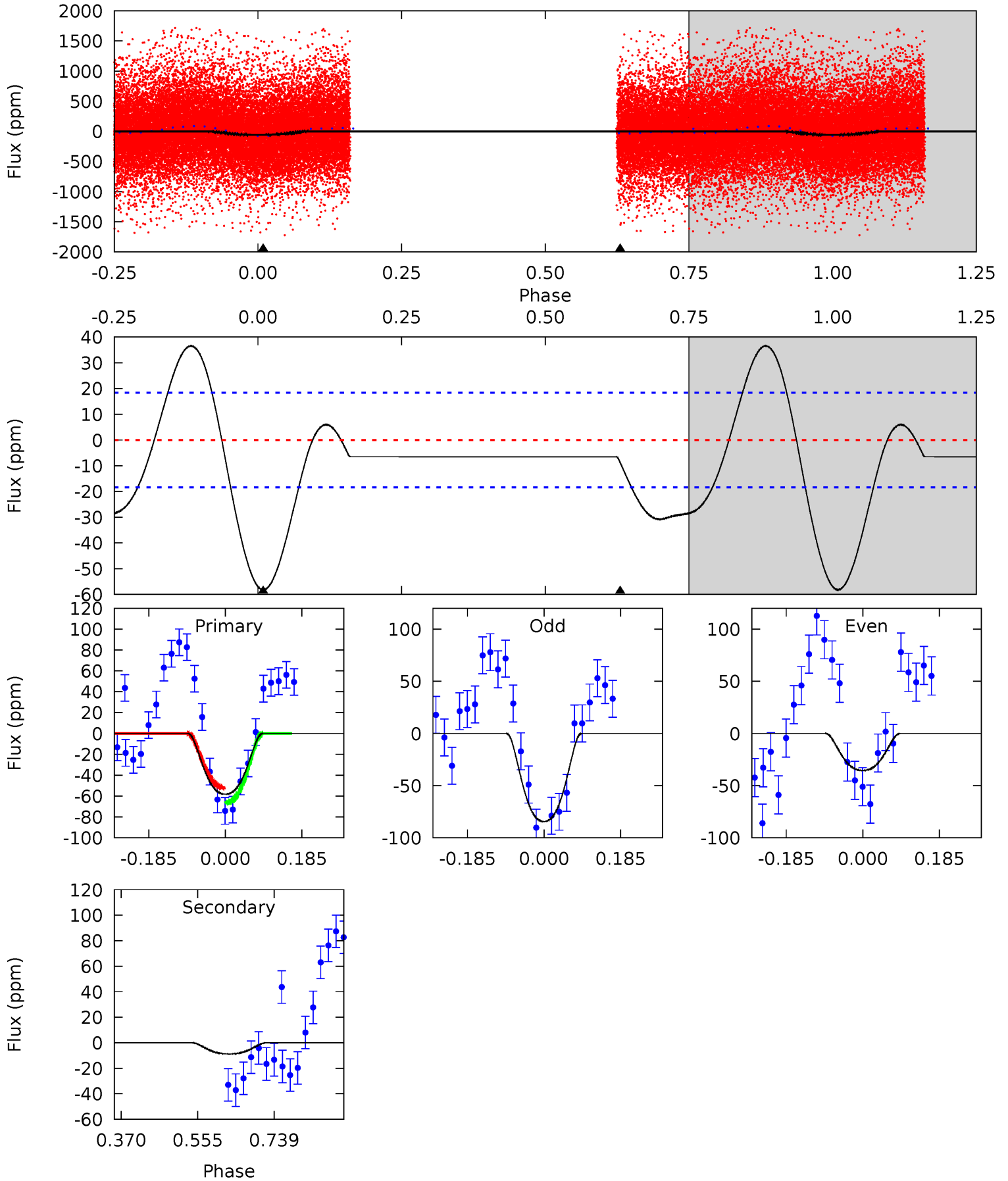
TCE 008260818-02 P= 1.450291 Days $T_0=132.779367$ (BKJD)



DV Model-Shift Uniqueness Test

008260818-02, P = 1.450228 Days, E = 131.342217 Days

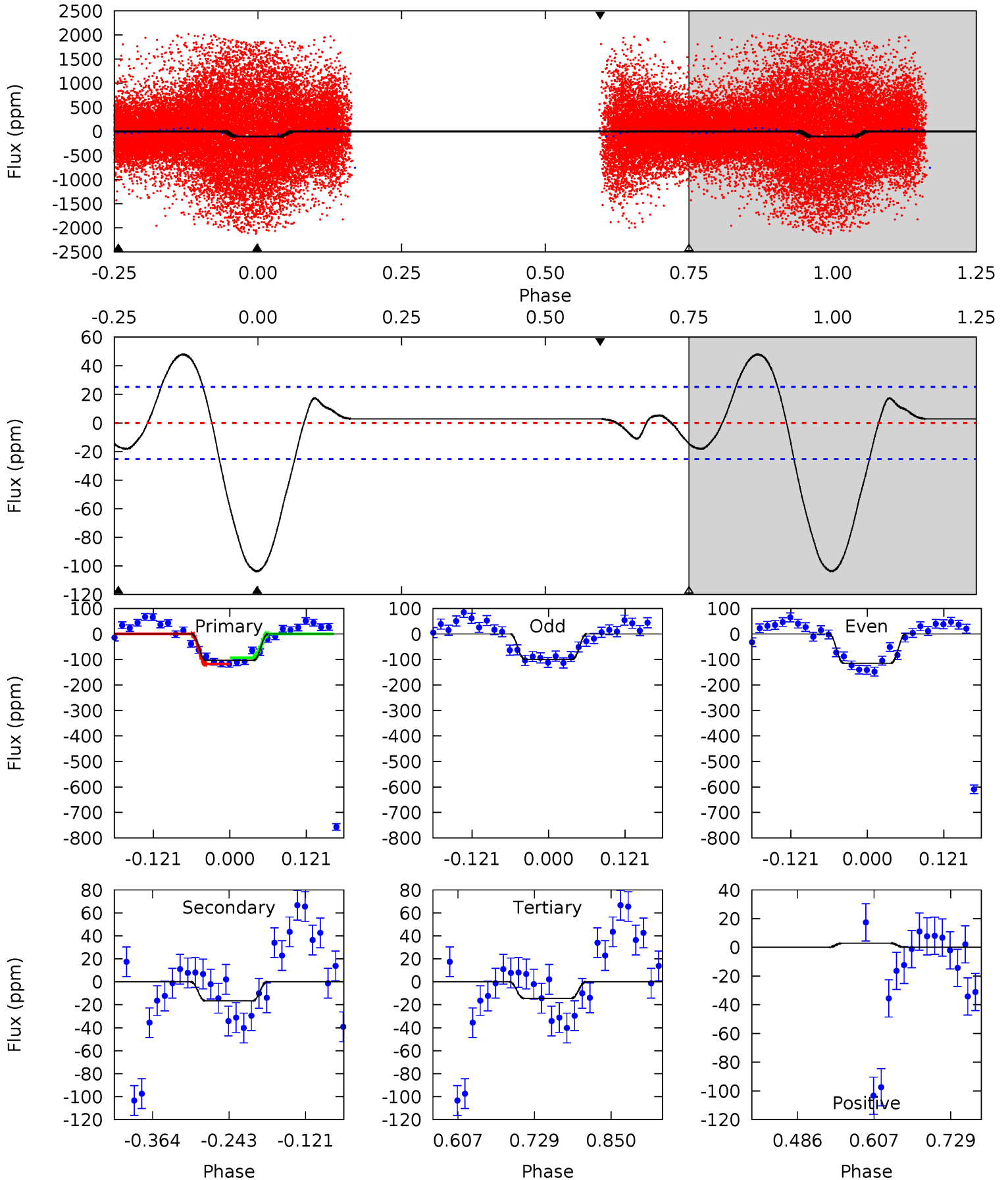
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.0	2.12	0	0	4.43	1.33	2.82	14.0	14.0	2.12	2.12	6.01	0.89	0.39	1.75



Alt Model-Shift Uniqueness Test

008260818-02, P = 1.450291 Days, E = 131.329076 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.6	2.98	2.59	0.52	4.52	1.55	1.15	16.0	18.1	0.39	2.46	1.35	0.96	0.32	2.32



Stellar Parameters For KIC 008260818

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7014^{+197}_{-296}	$4.188^{+0.128}_{-0.208}$	$-0.120^{+0.250}_{-0.350}$	$1.578^{+0.535}_{-0.288}$	$1.408^{+0.220}_{-0.242}$	$0.504^{+0.321}_{-0.265}$
	+3%/-4%	+3%/-5%	+208%/-292%	+34%/-18%	+16%/-17%	+64%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008260818-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-9 ± 4	$1.99^{+0.40}_{-0.32}$	3265^{+258}_{-208}	3627^{+415}_{-663}	$0.916^{+0.637}_{-0.478}$
Alt.	-17 ± 6	$1.96^{+0.40}_{-0.31}$	3266^{+278}_{-209}	4235^{+400}_{-456}	$1.786^{+1.013}_{-0.768}$

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

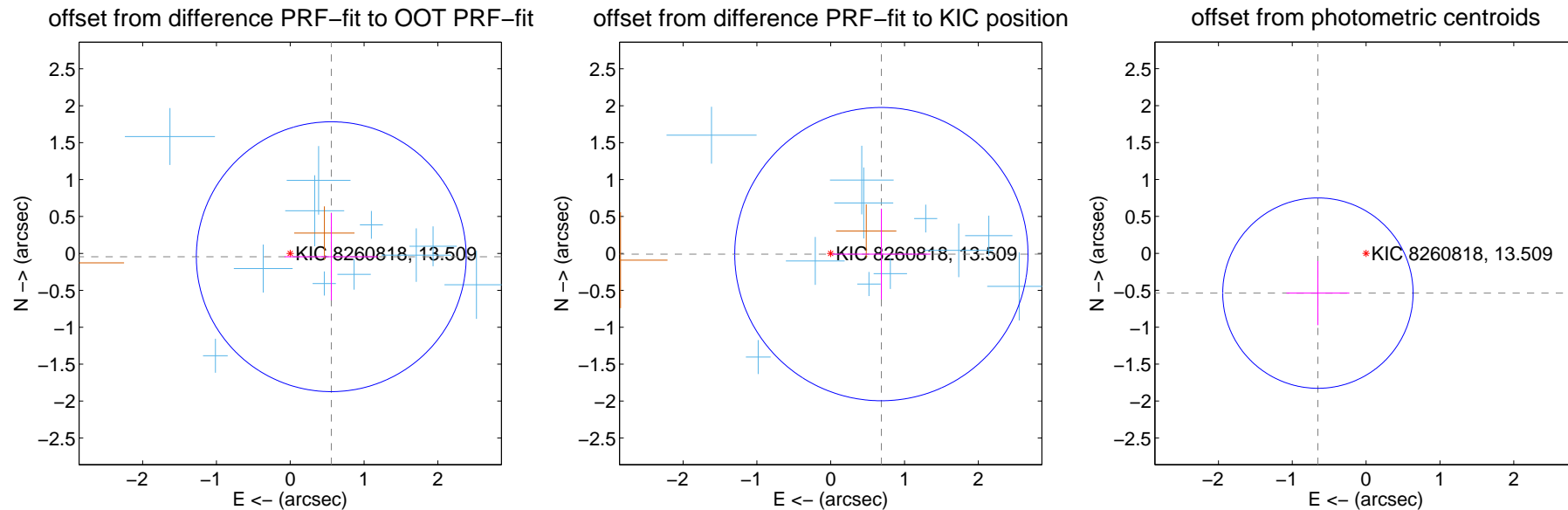
DV Centroid Data

Supplemental centroid analysis for 008260818-02. Kepler magnitude: 13.51. Transit SNR 10.14

There are 11 quarters with good PRF difference image offsets

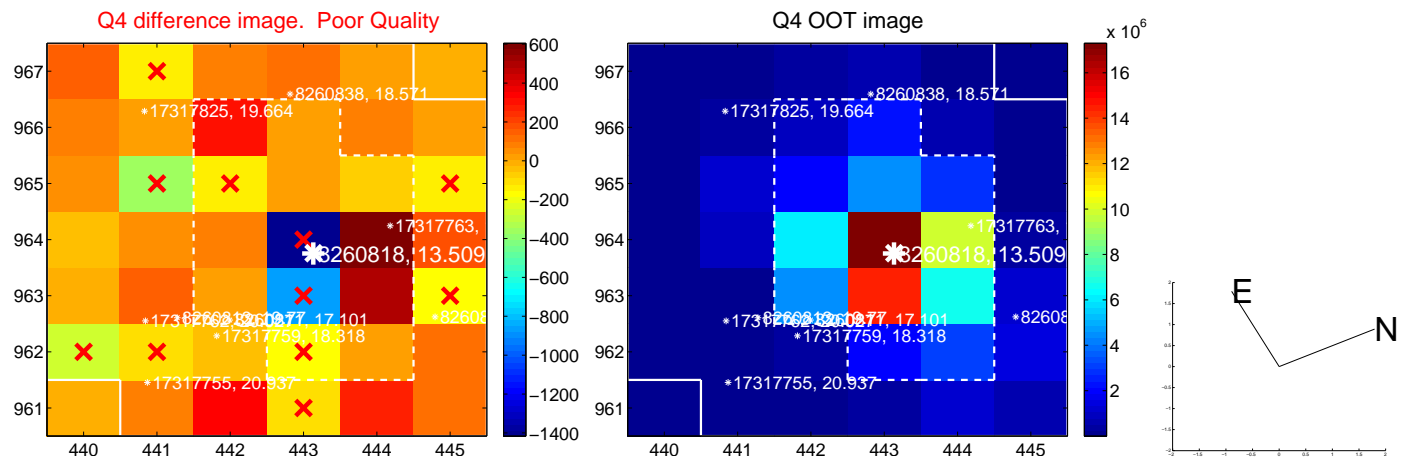
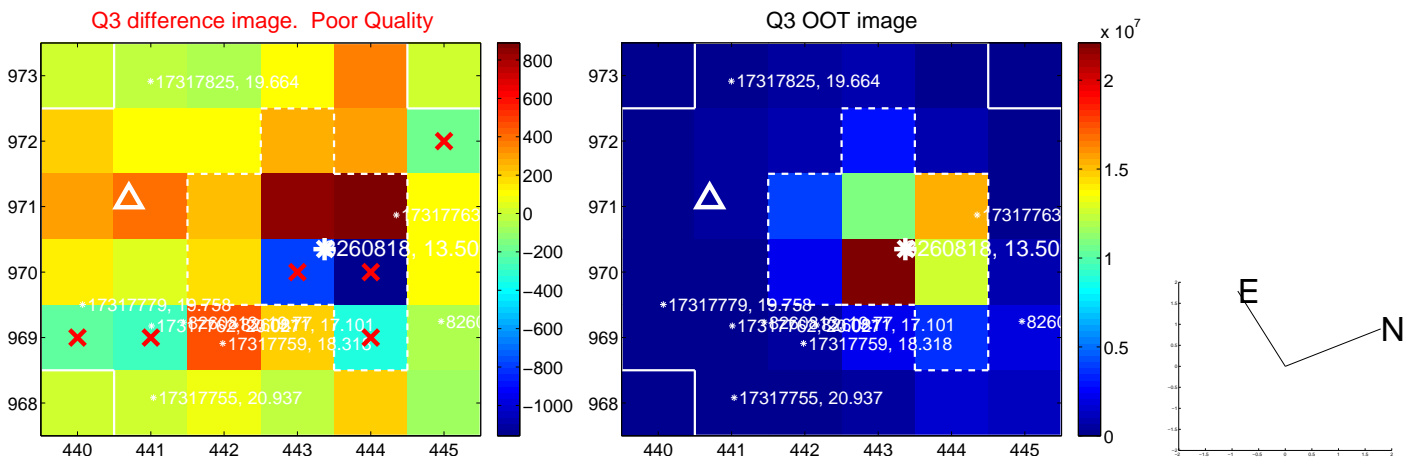
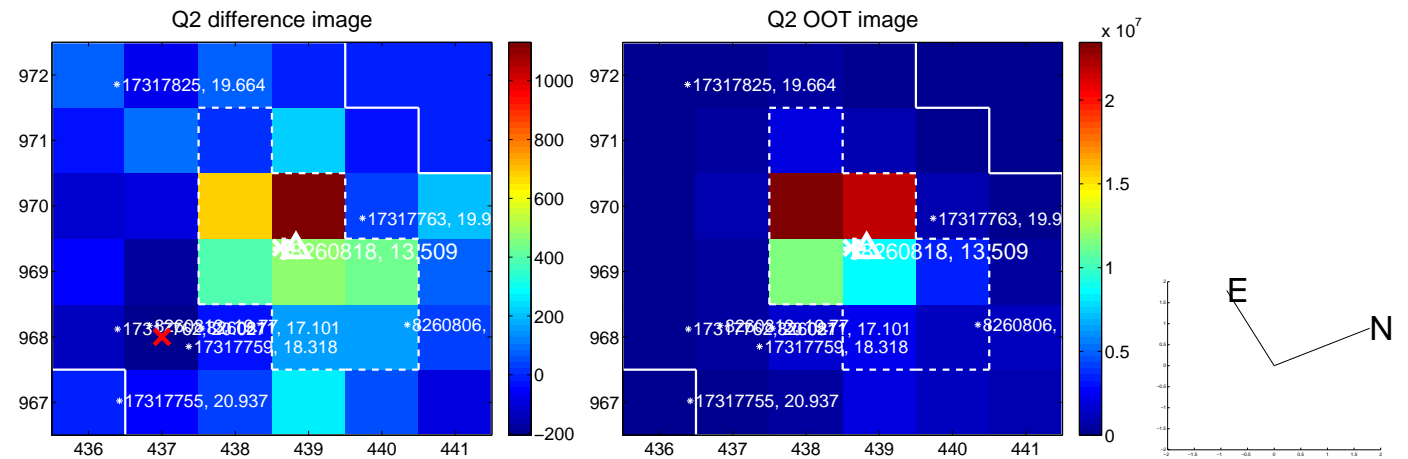
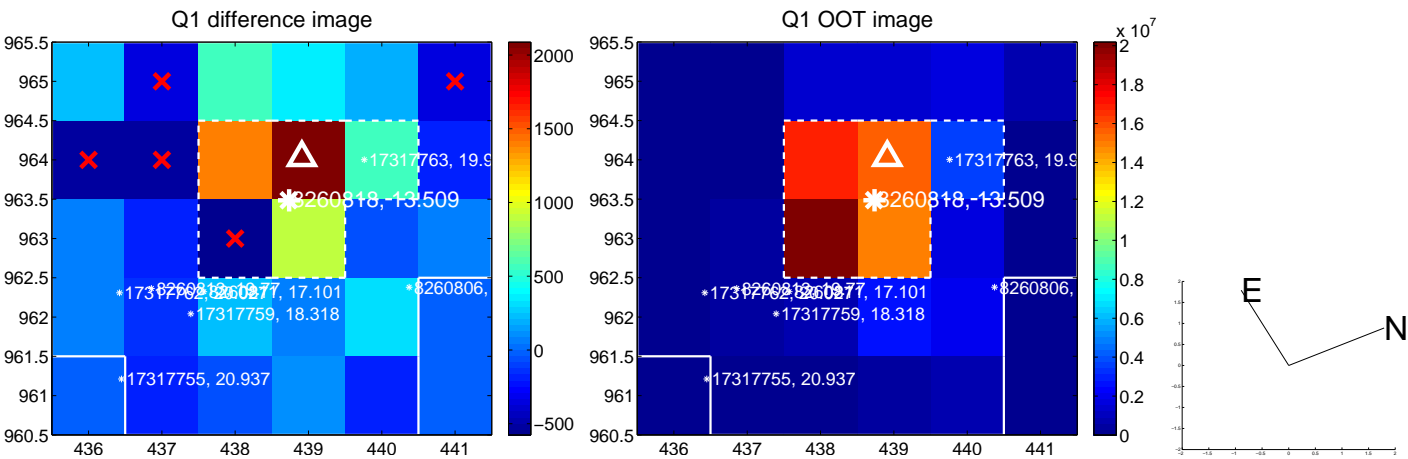
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.557 ± 0.609	0.91	-0.555 ± 0.629	-0.045 ± 0.591
PRF-fit source offset from KIC position	0.686 ± 0.662	1.04	-0.686 ± 0.666	-0.010 ± 0.615
photometric centroid source offset	0.85 ± 0.43	1.97	0.65 ± 0.43	-0.54 ± 0.43

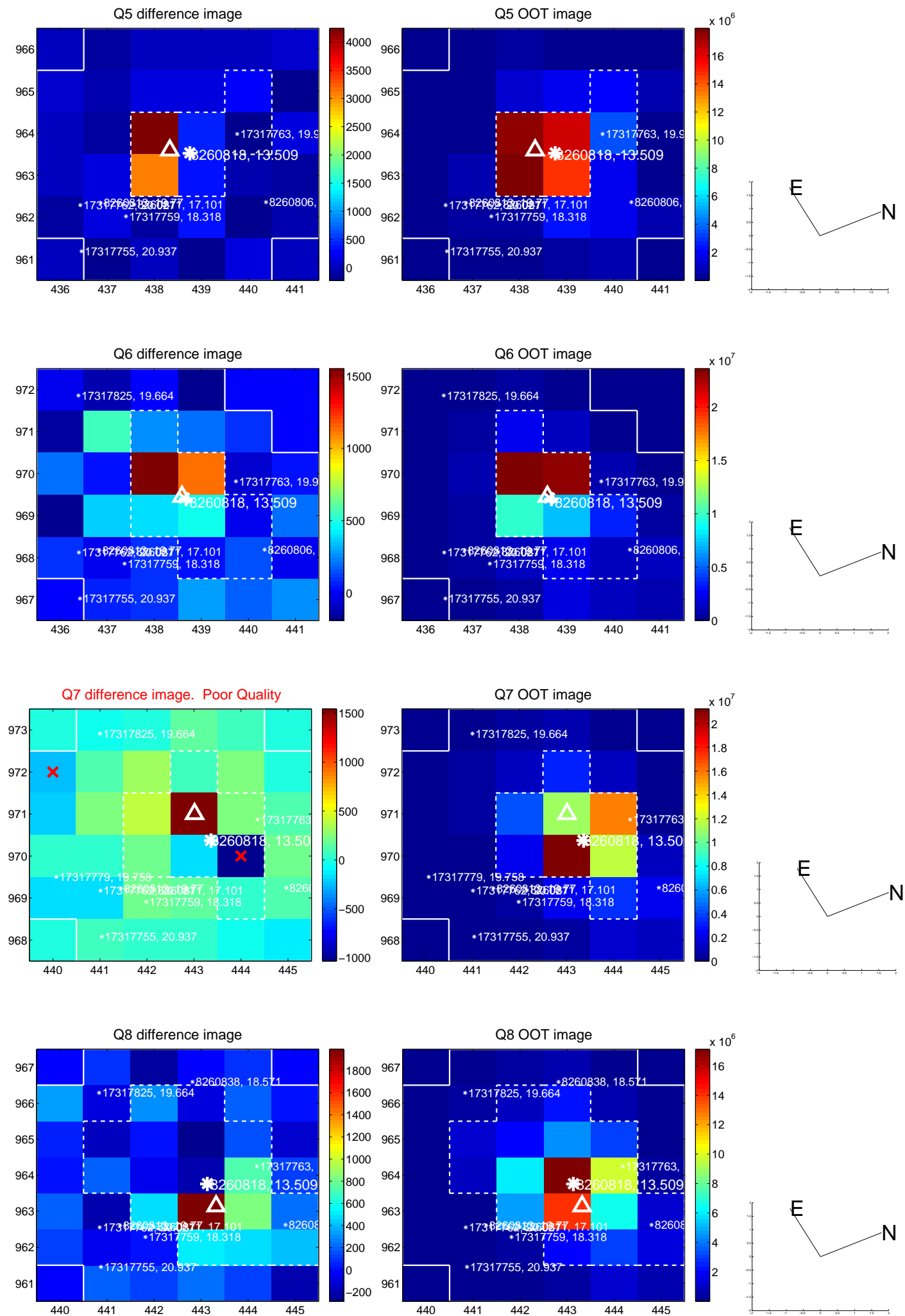


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

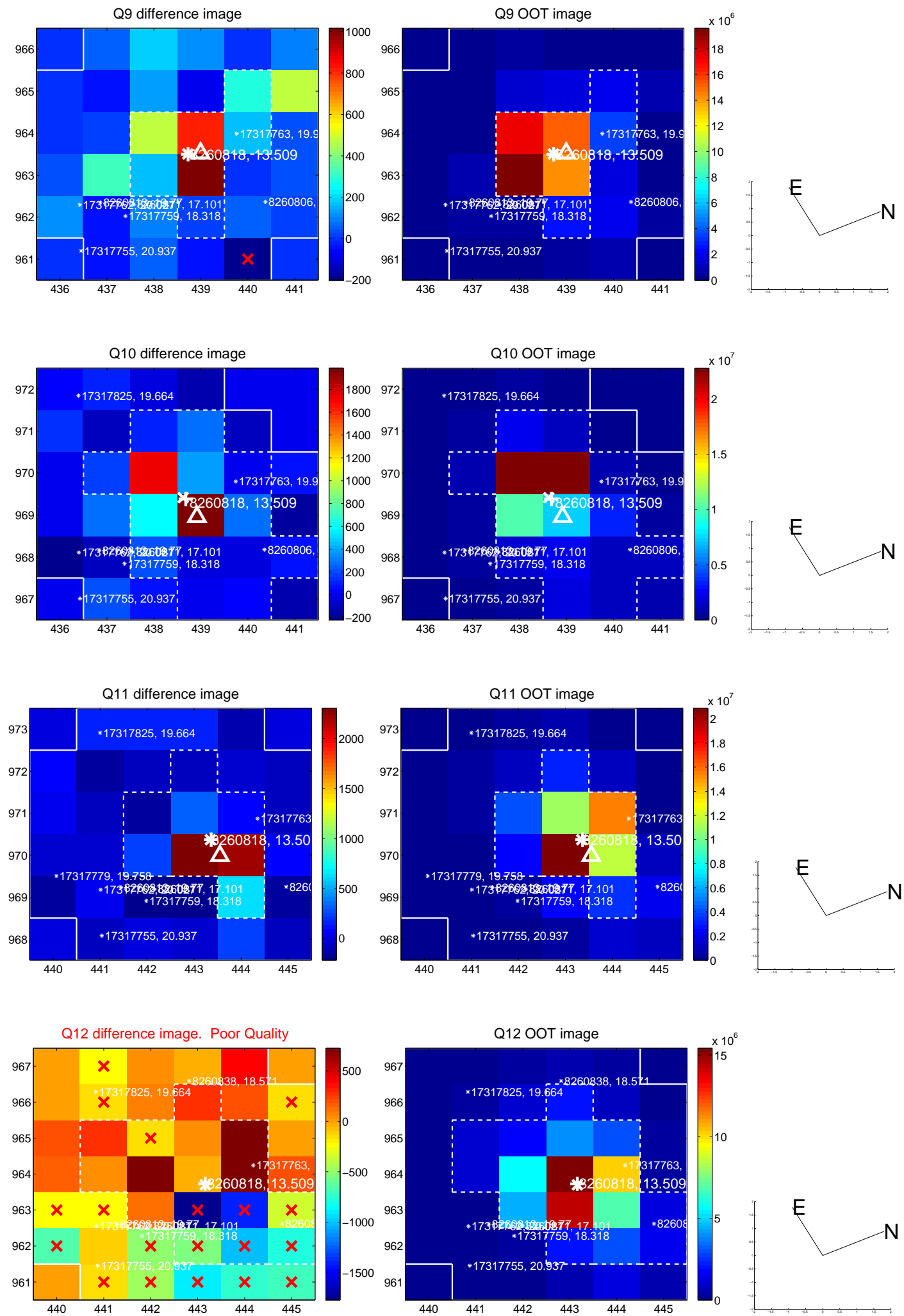
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



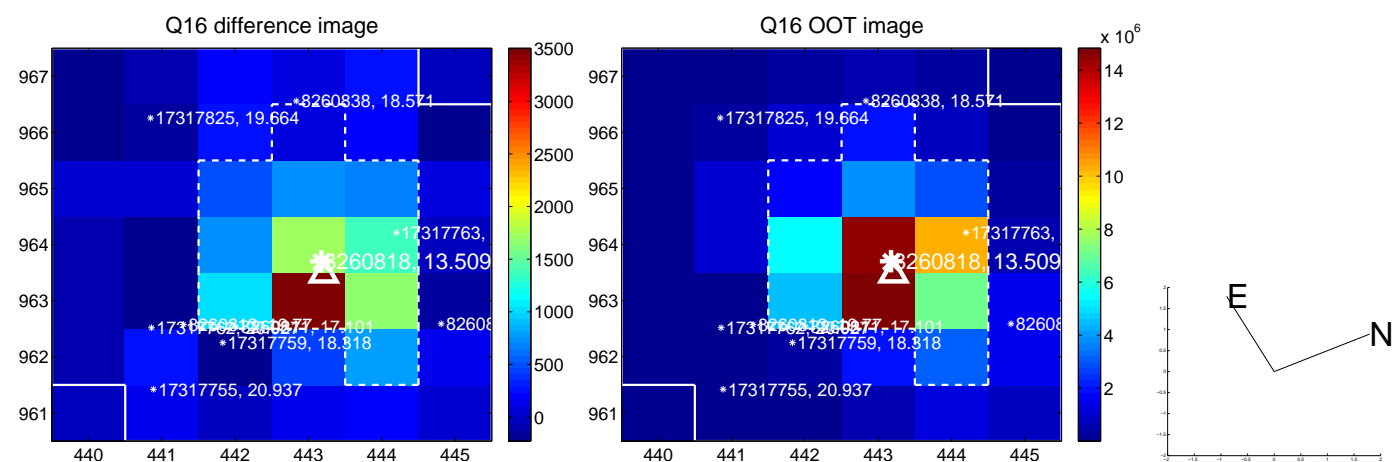
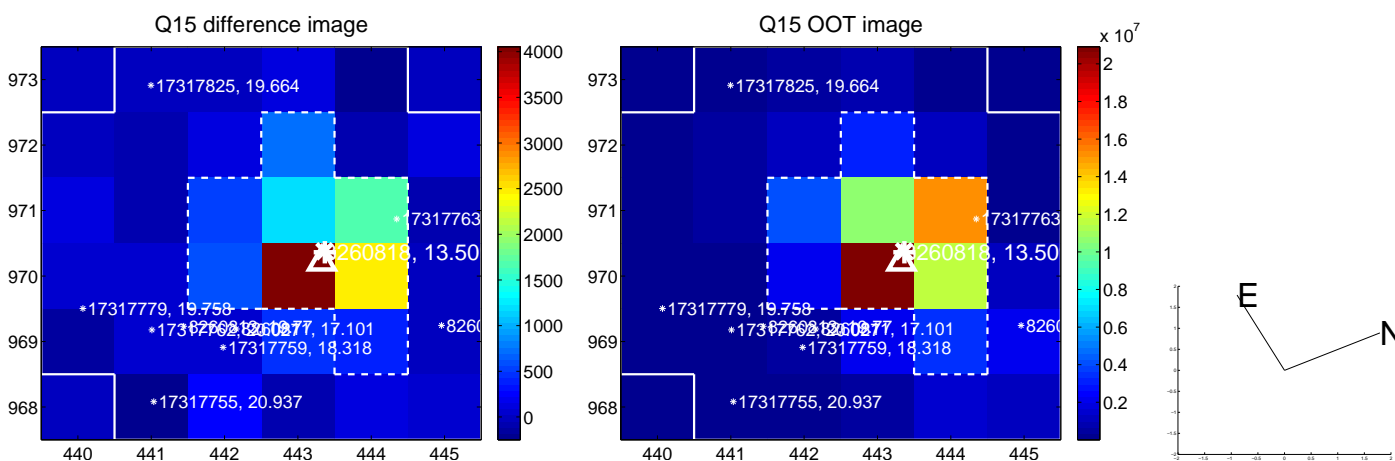
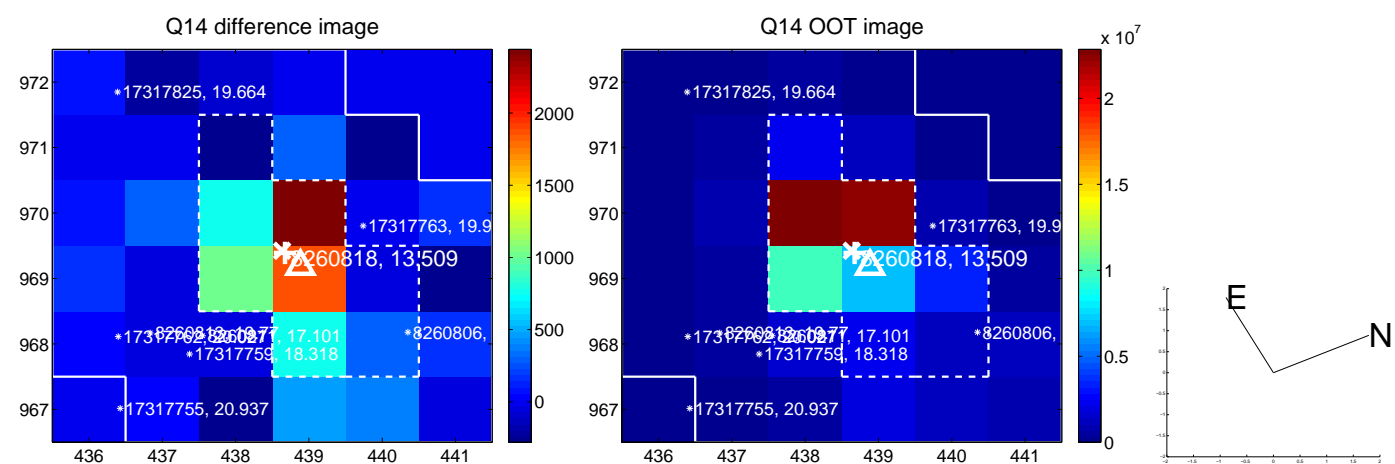
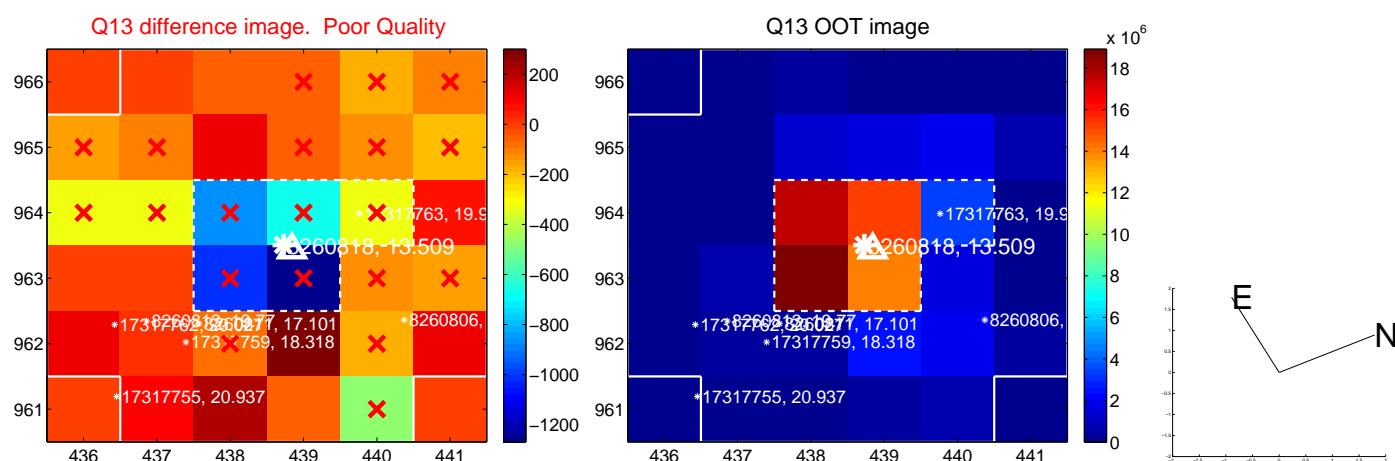
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



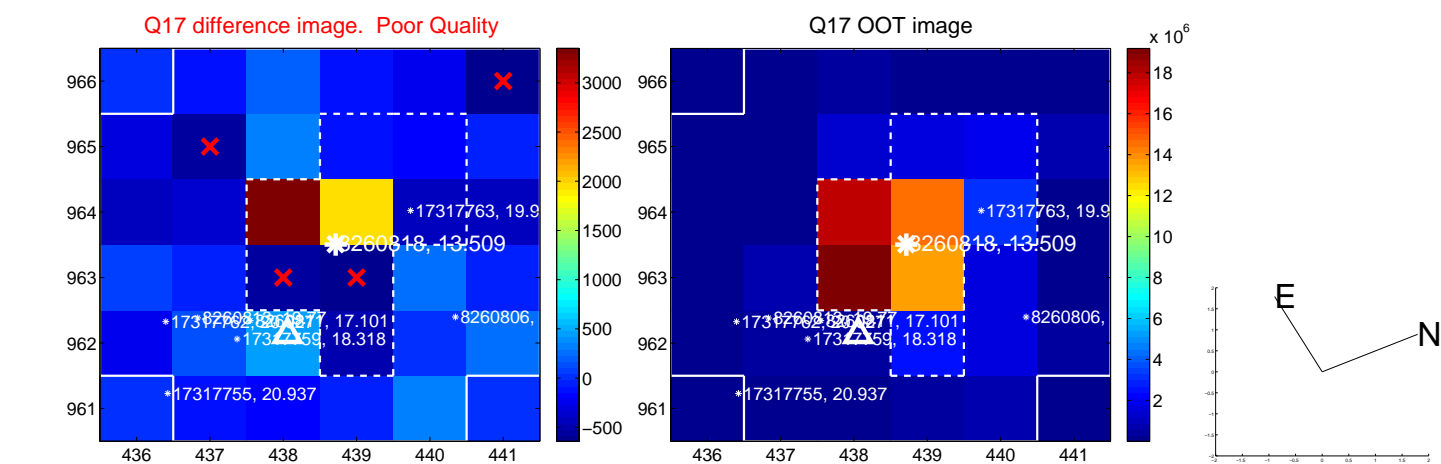
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



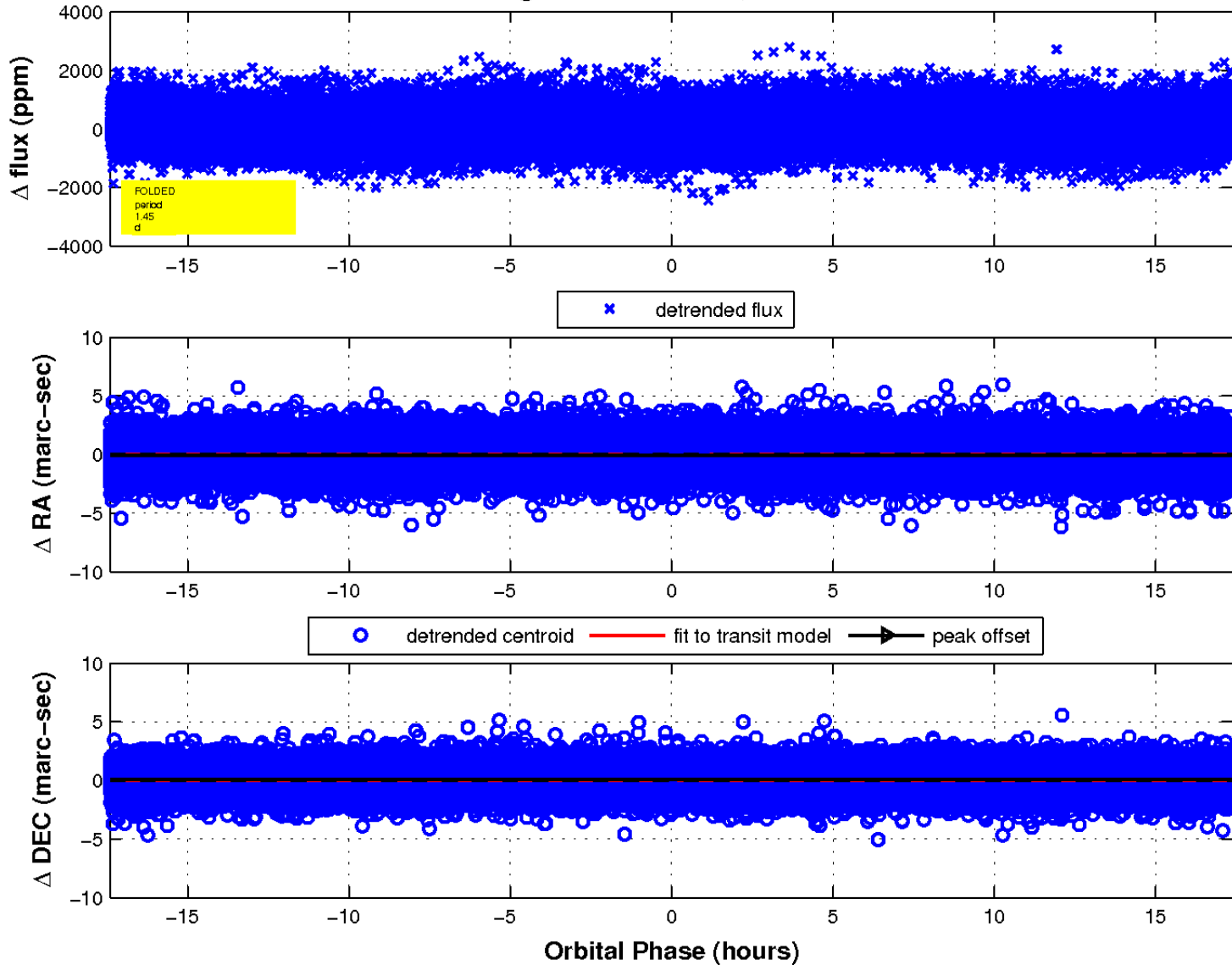
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

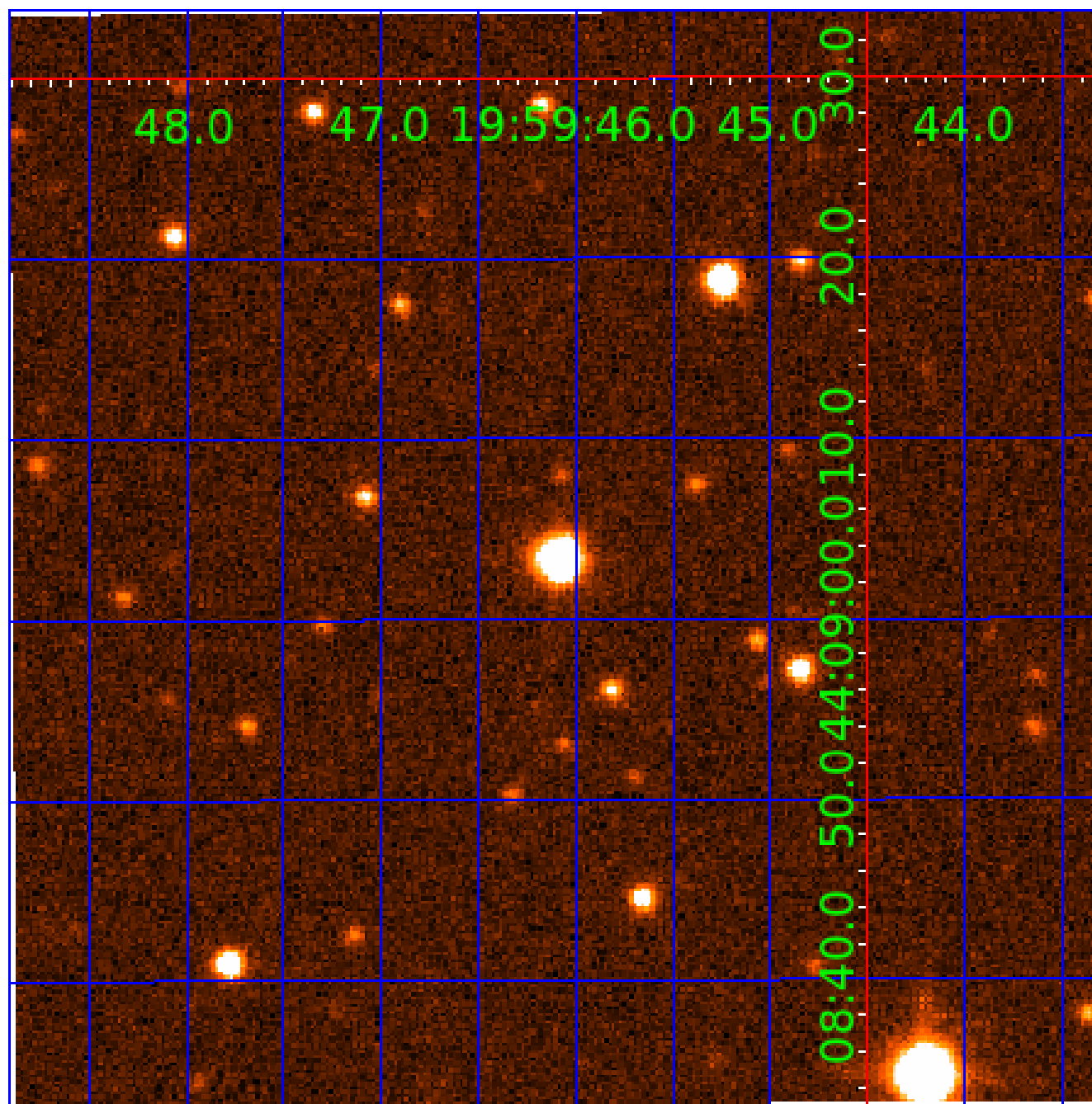


fluxWeightedCentroids, Planet 2 of 7



UKIRT Image

Declination



KIC 008260818

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})
008260818-01	OBS	No	1.450235	131.907912	58.3	5.252	11.1	7.9	1.58	7014	1.57	6858.74
008260818-02	OBS	No	1.450228	132.792445	81.8	5.973	11.5	10.1	1.58	7014	1.97	6858.78
008260818-03	OBS	No	397.242264	432.587880	1553.2	12.202	12.5	9.8	1.58	7014	7.28	3.86
008260818-05	OBS	No	10.494872	141.469916	294.7	6.244	8.7	7.3	1.58	7014	3.41	490.00
008260818-06	OBS	No	15.598895	134.646469	500.5	7.220	8.3	8.3	1.58	7014	6.72	288.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008260818-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008260818-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD
008260818-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
008260818-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008260818-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

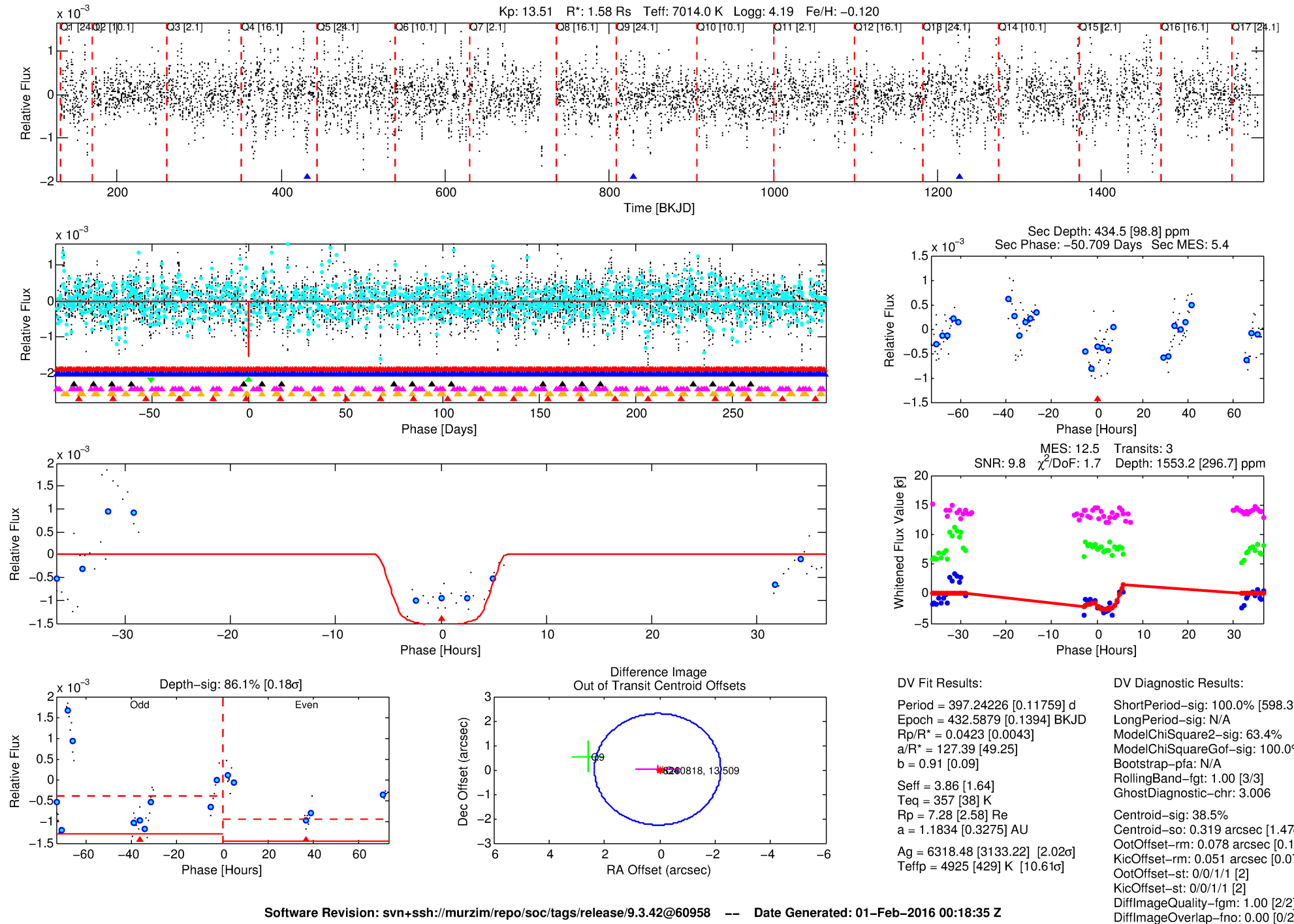
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008260818-03

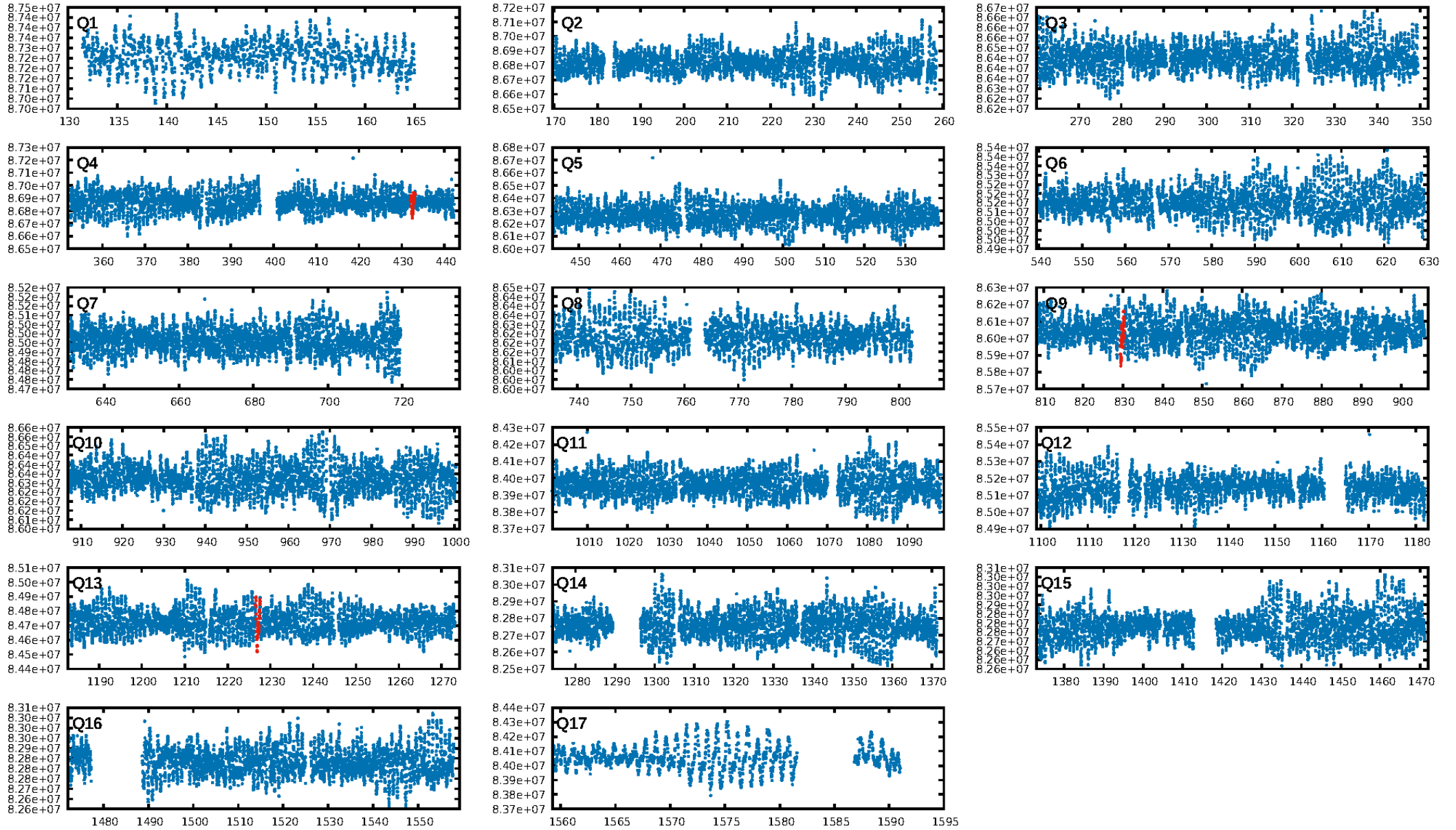
No Significant Match Found

DV One-Page Summary

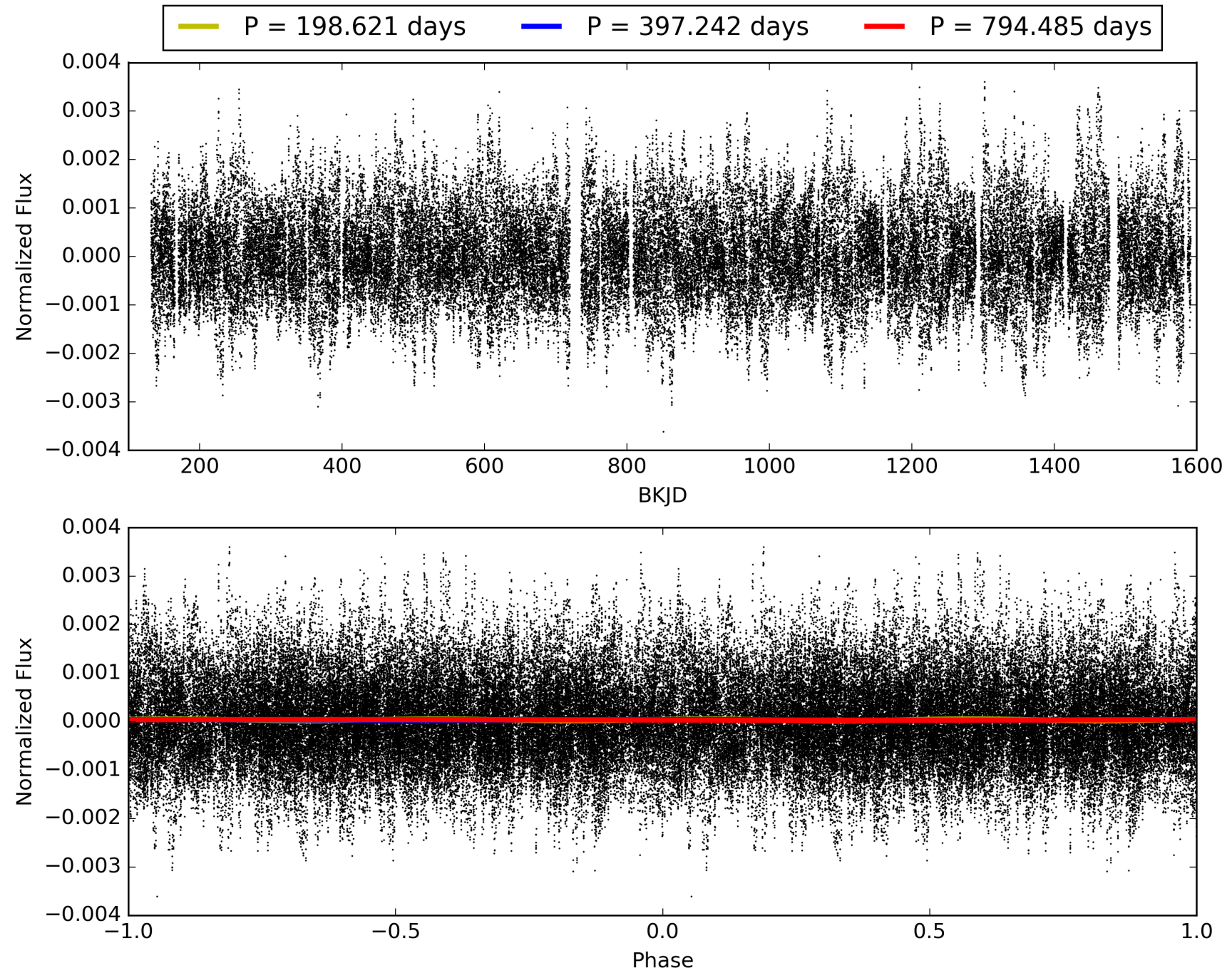
KIC: 8260818 Candidate: 3 of 7 Period: 397.242 d



TCE 008260818-03, PDC Light Curves

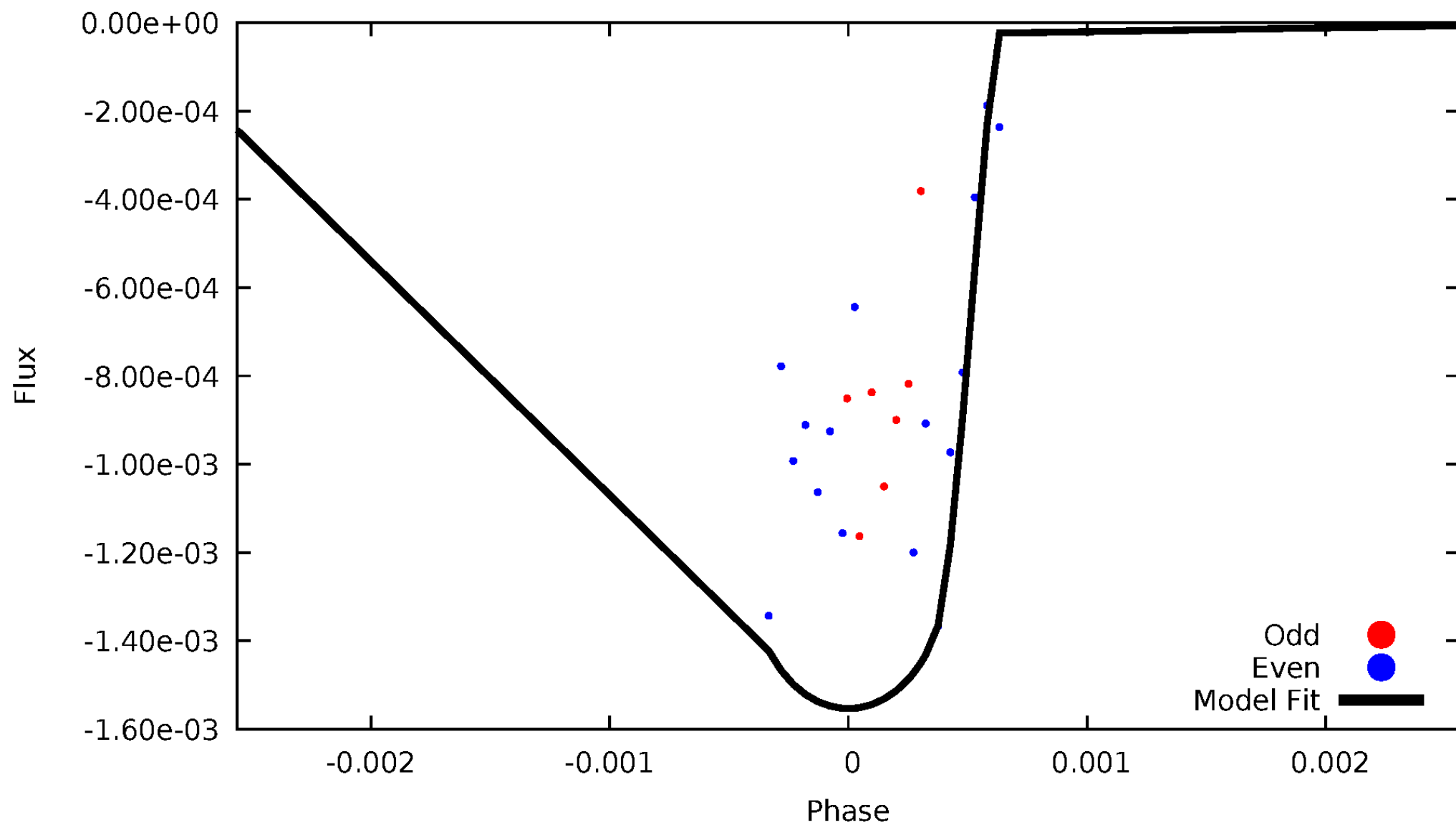


TCE 008260818-03



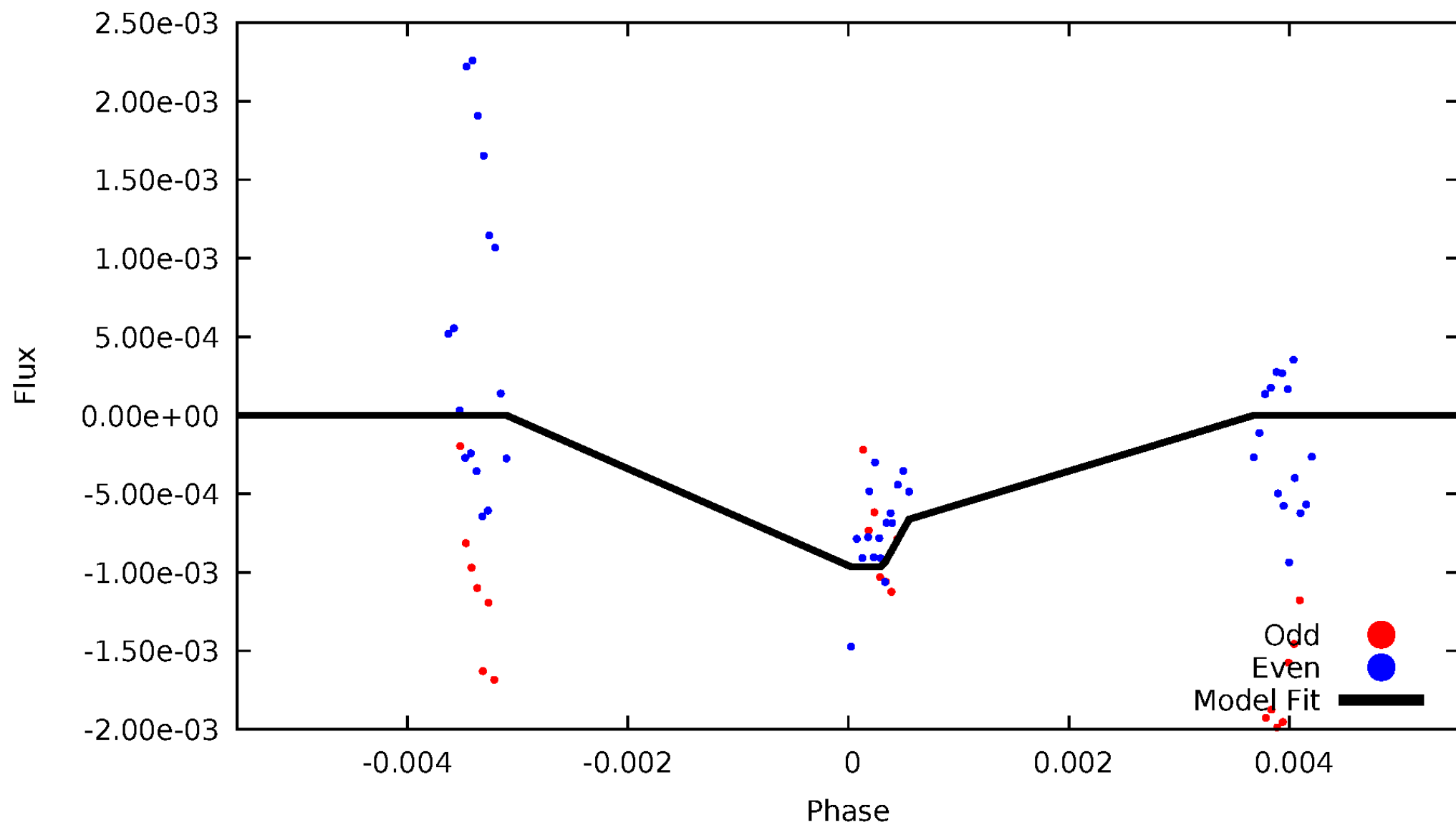
DV Odd/Even

TCE 008260818-03



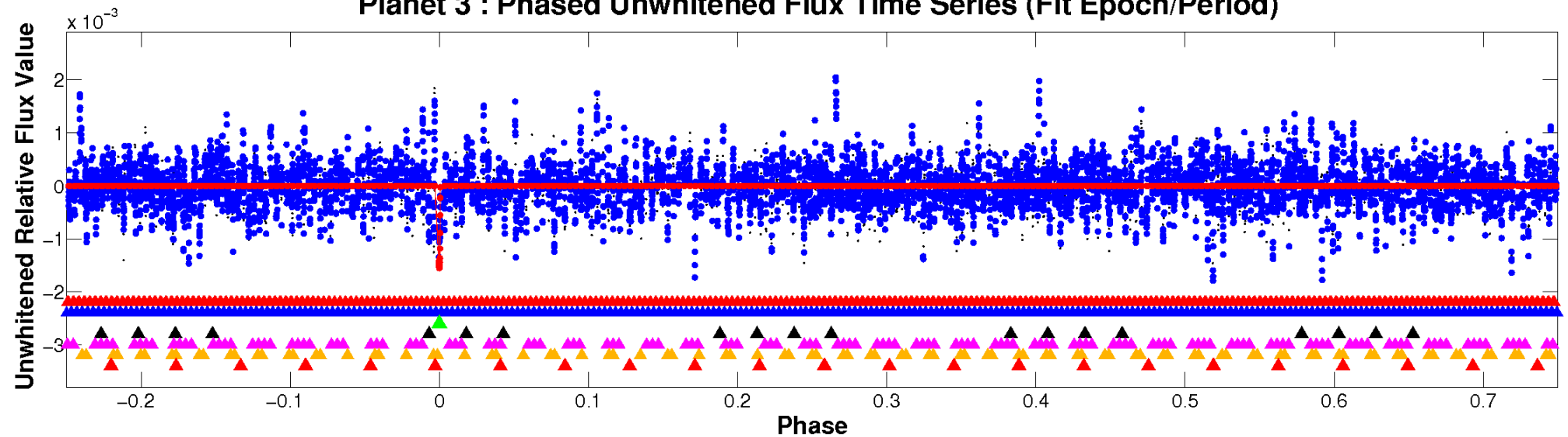
ALT Odd/Even

TCE 008260818-03

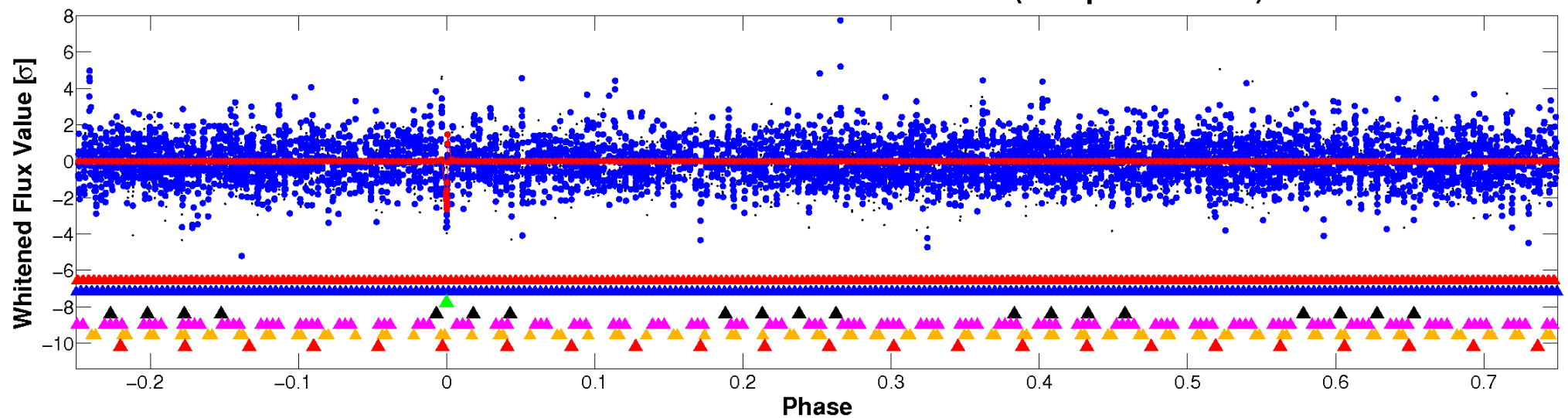


Non-Whitened Vs. Whitened Light Curve

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

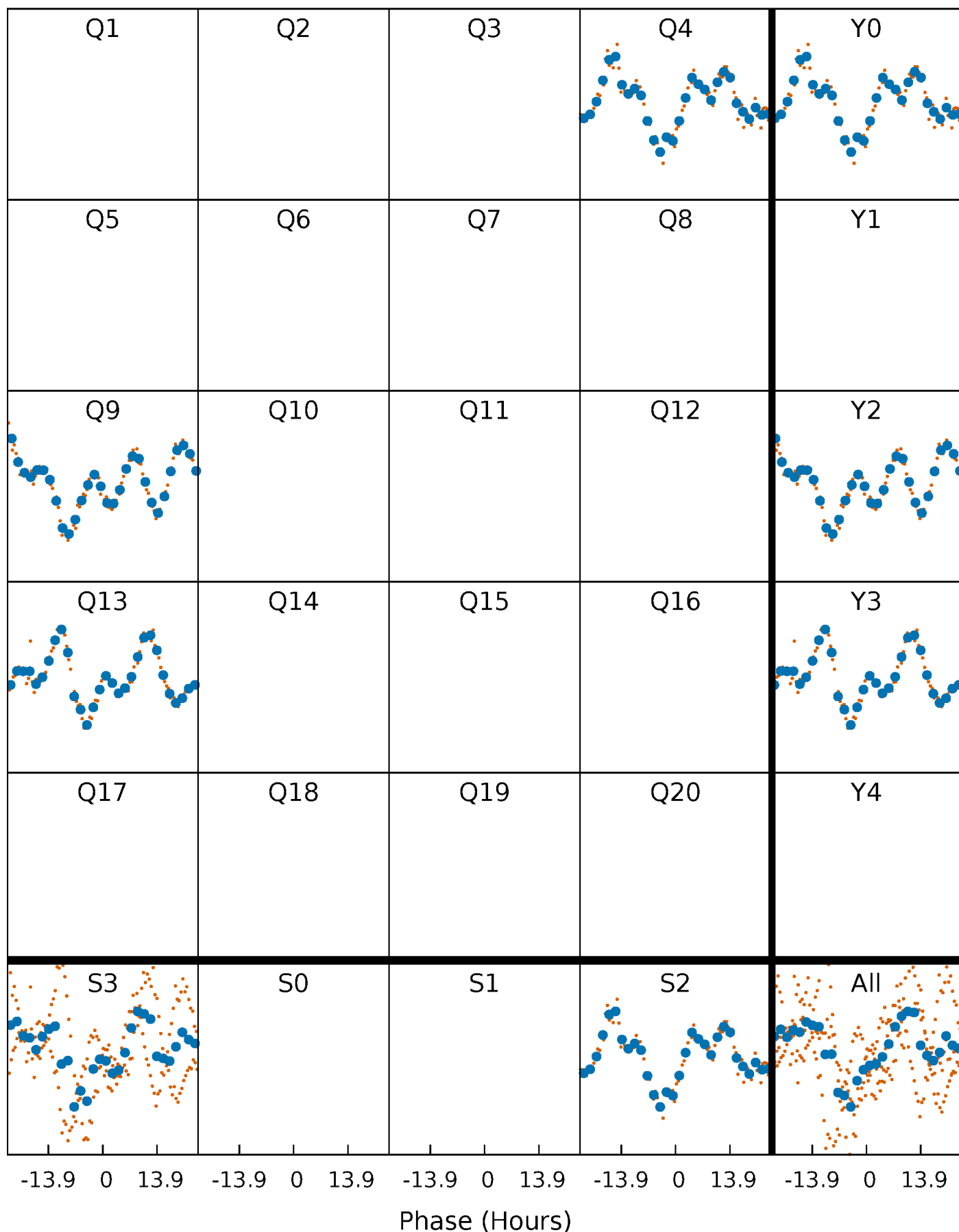


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



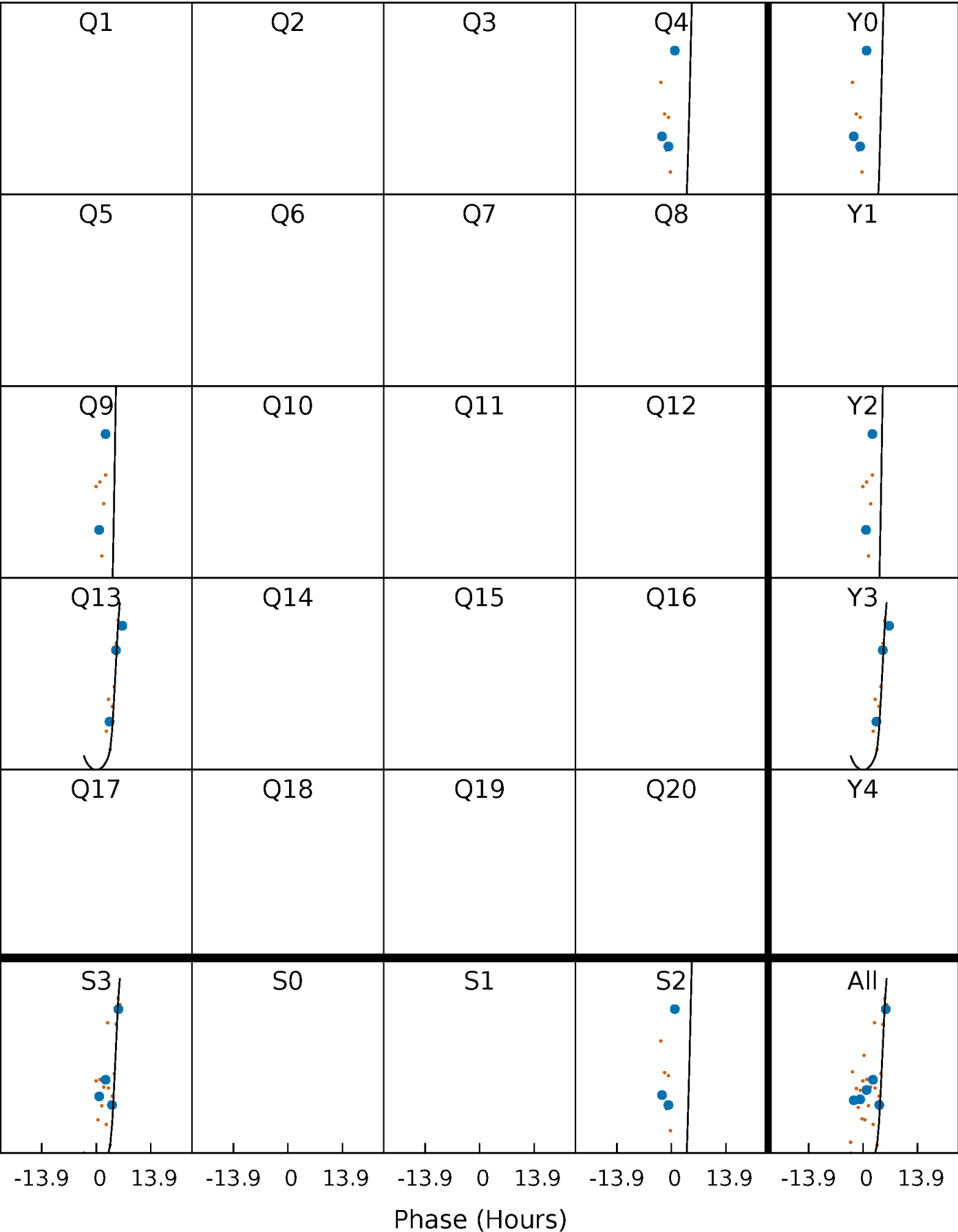
PDC Quarter-Phased Transit Curves

TCE 008260818-03 P=397.242264 Days $T_0=432.587880$ (BKJD)



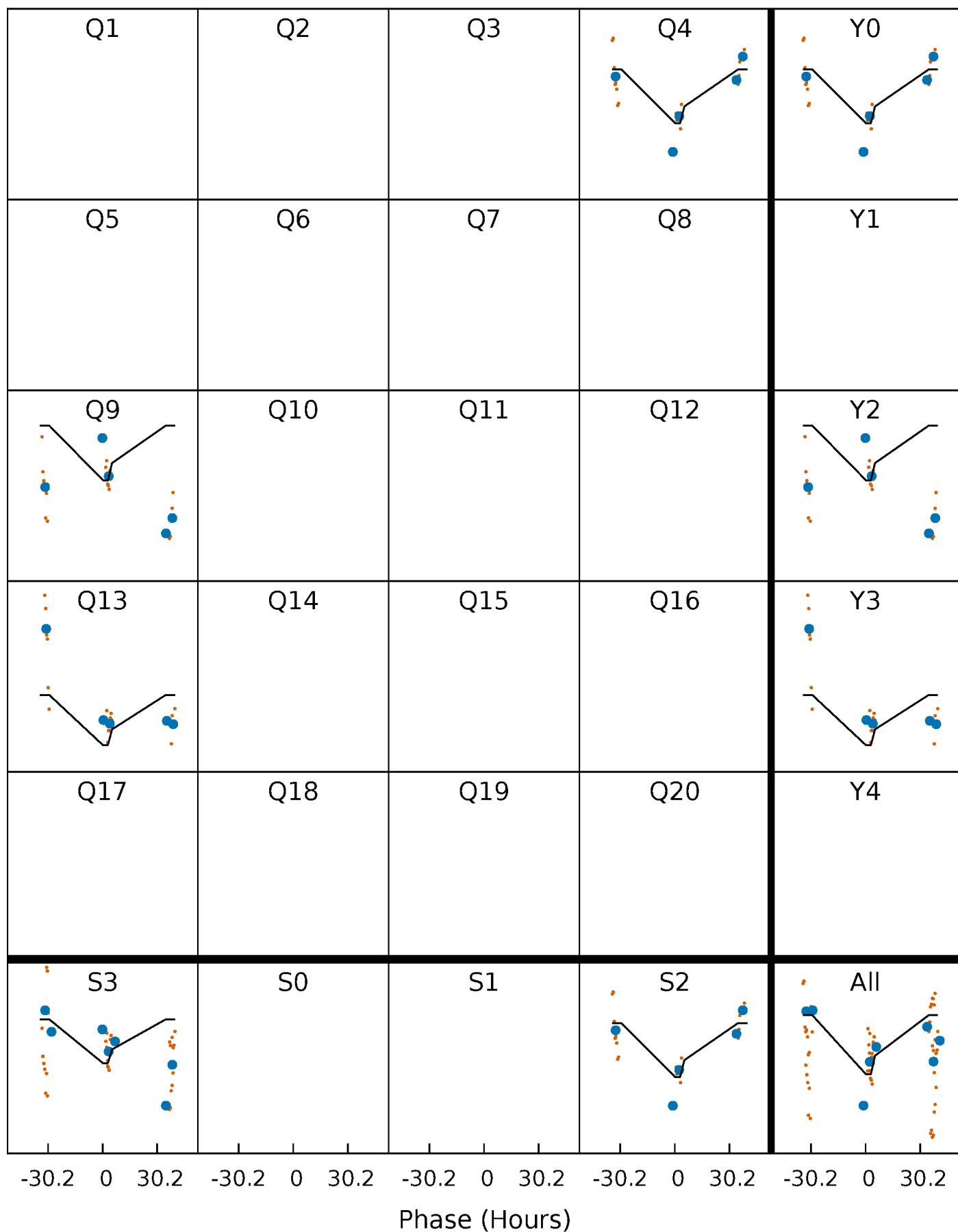
DV Quarter-Phased Transit Curves

TCE 008260818-03 P=397.242264 Days T₀=432.587880 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

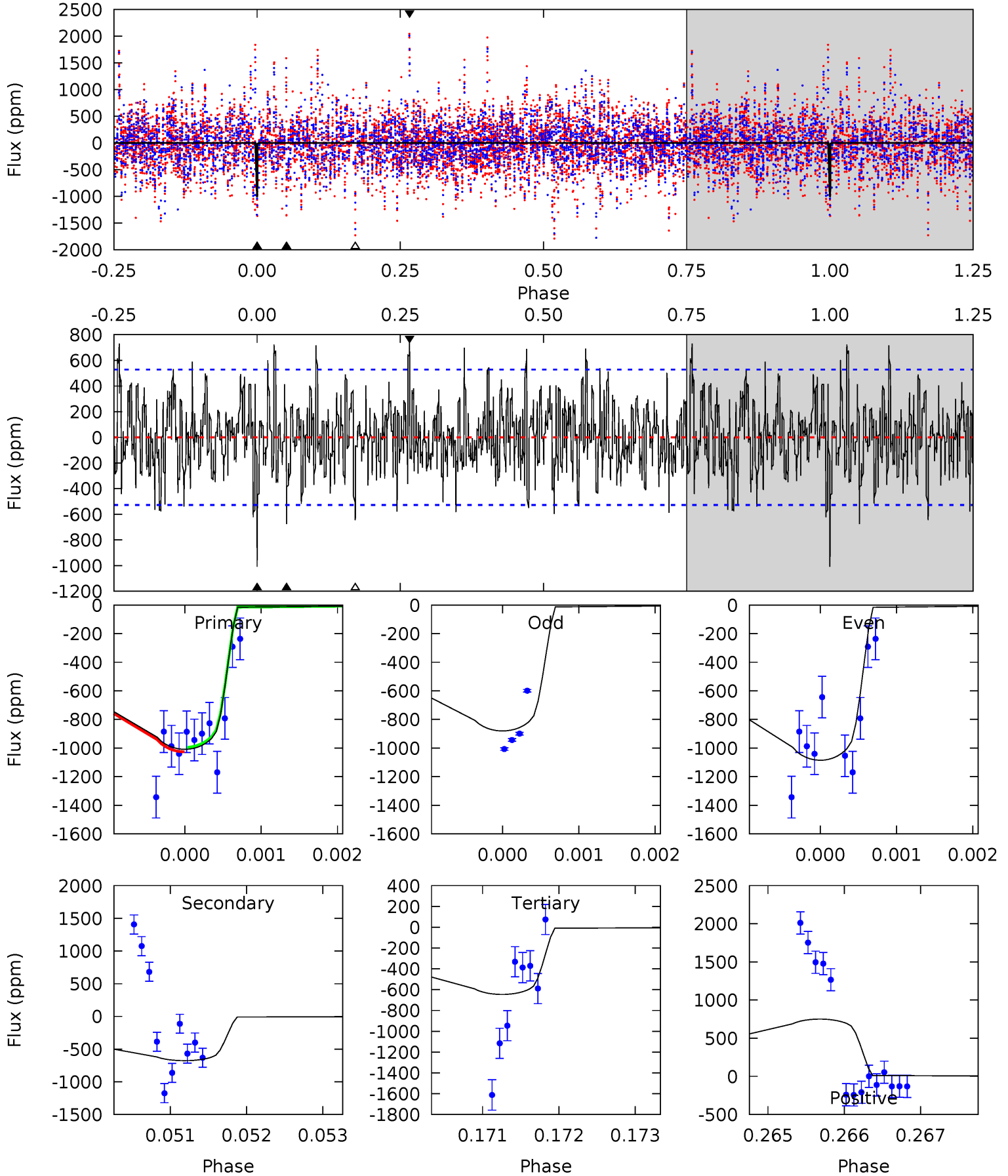
TCE 008260818-03 P=397.329648 Days $T_0=432.445772$ (BKJD)



DV Model-Shift Uniqueness Test

008260818-03, P = 397.242264 Days, E = 35.345616 Days

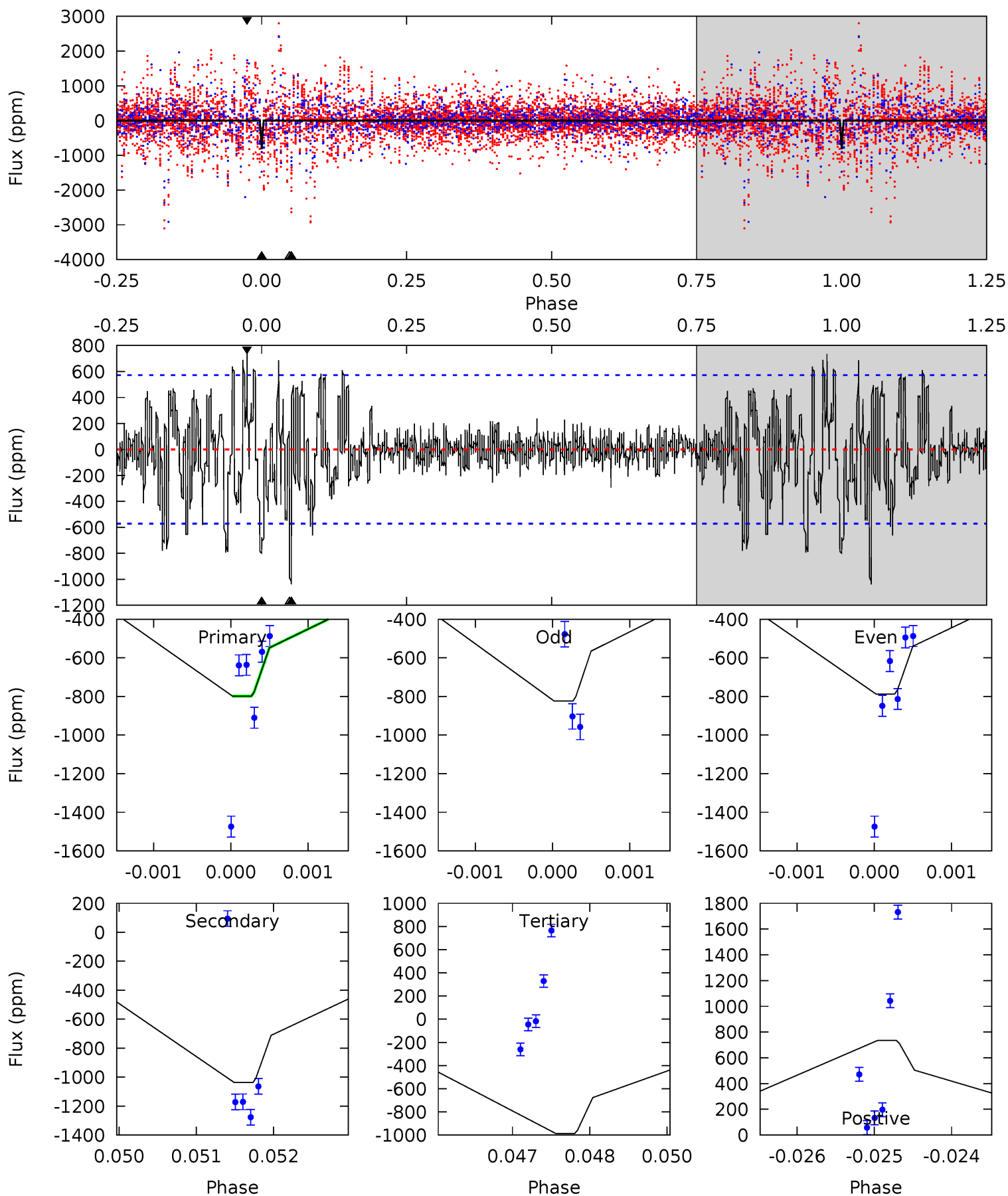
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.4	7.01	6.69	7.78	5.47	3.32	2.25	3.76	2.67	0.32	-0.76	1.02	1.05	0.43	0.15



Alt Model-Shift Uniqueness Test

008260818-03, P = 397.329648 Days, E = 35.116124 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.60	9.87	9.39	6.99	5.43	3.26	1.83	-1.79	0.61	0.48	2.88	0.16	0.96	0.41	0



Stellar Parameters For KIC 008260818

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7014^{+197}_{-296}	$4.188^{+0.128}_{-0.208}$	$-0.120^{+0.250}_{-0.350}$	$1.578^{+0.535}_{-0.288}$	$1.408^{+0.220}_{-0.242}$	$0.504^{+0.321}_{-0.265}$
	+3%/-4%	+3%/-5%	+208%/-292%	+34%/-18%	+16%/-17%	+64%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008260818-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-677 ± 97	$7.35^{+1.61}_{-1.08}$	502^{+40}_{-33}	5459^{+382}_{-323}	9378^{+3904}_{-2926}
Alt.	-1037 ± 105	$5.41^{+1.20}_{-0.98}$	500^{+43}_{-32}	7082^{+743}_{-557}	26563^{+12803}_{-8689}

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

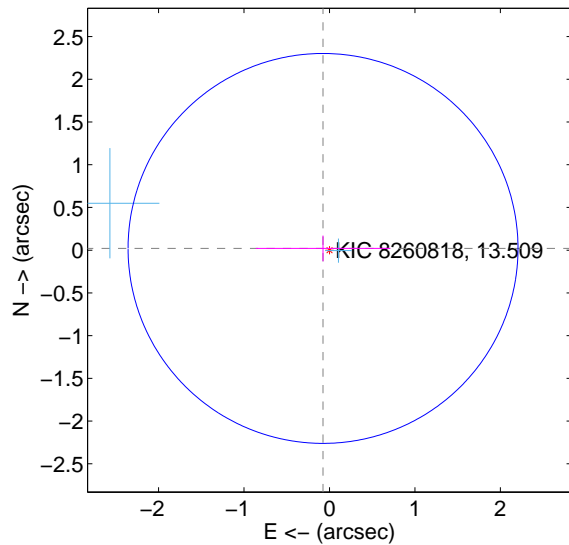
Supplemental centroid analysis for 008260818-03. Kepler magnitude: 13.51. Transit SNR 9.77

There are 2 quarters with good PRF difference image offsets

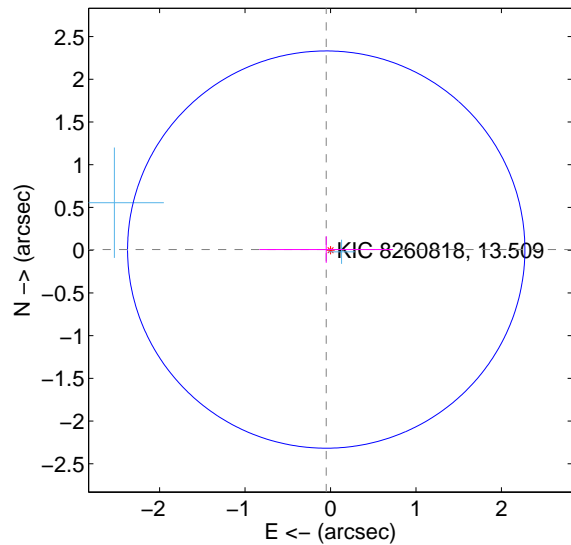
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.078 ± 0.761	0.10	0.075 ± 0.787	0.020 ± 0.151
PRF-fit source offset from KIC position	0.051 ± 0.775	0.07	0.050 ± 0.782	0.007 ± 0.155
photometric centroid source offset	0.32 ± 0.22	1.47	0.32 ± 0.22	-0.03 ± 0.28

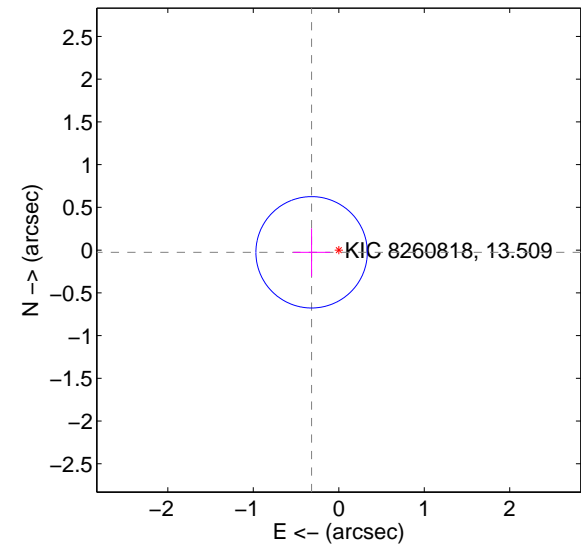
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

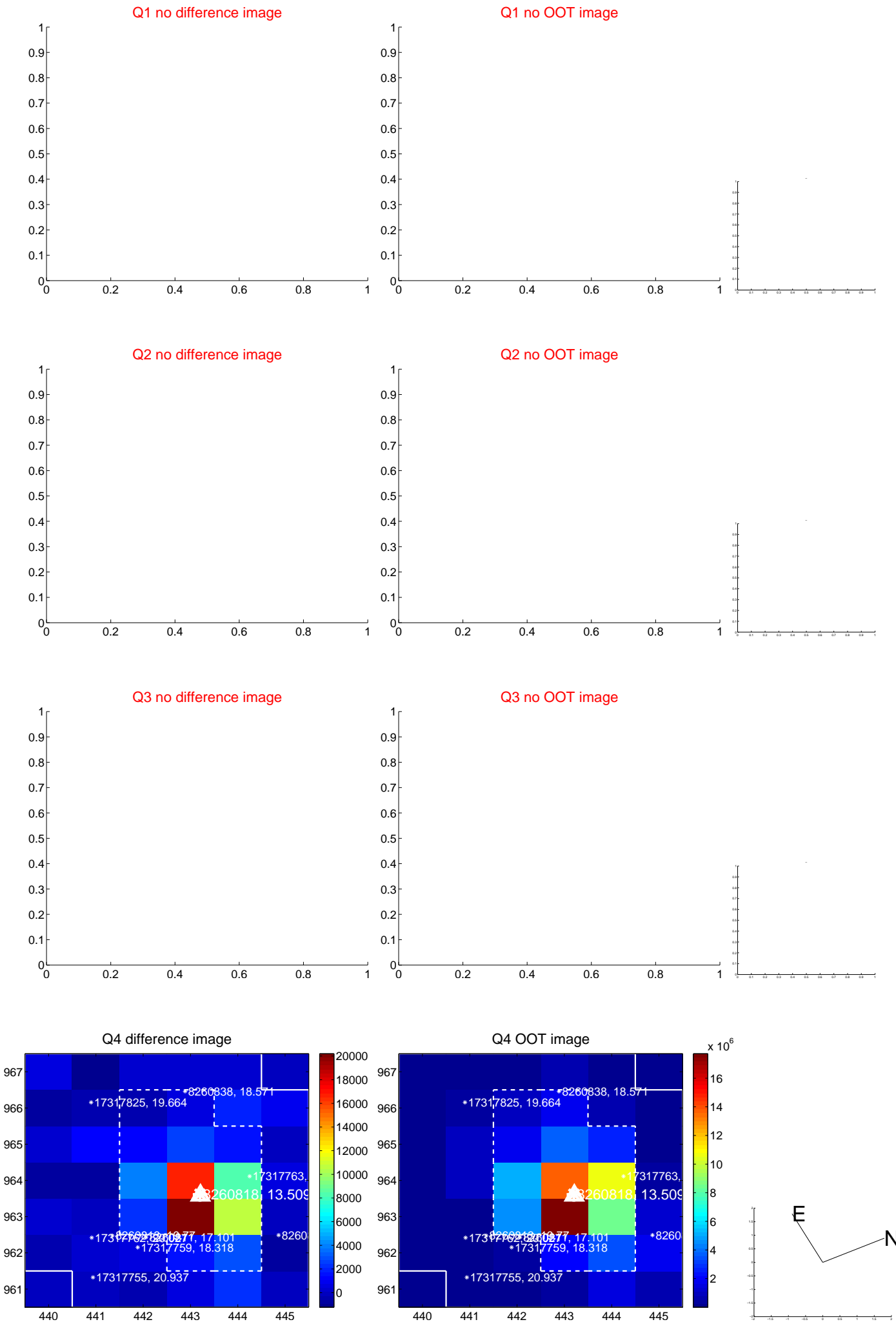


offset from photometric centroids



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

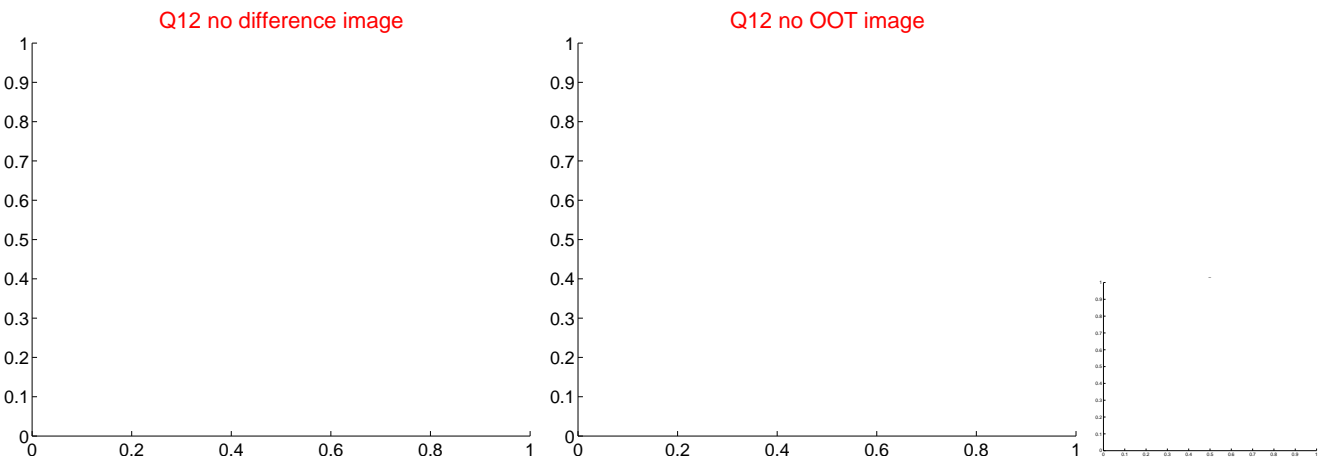
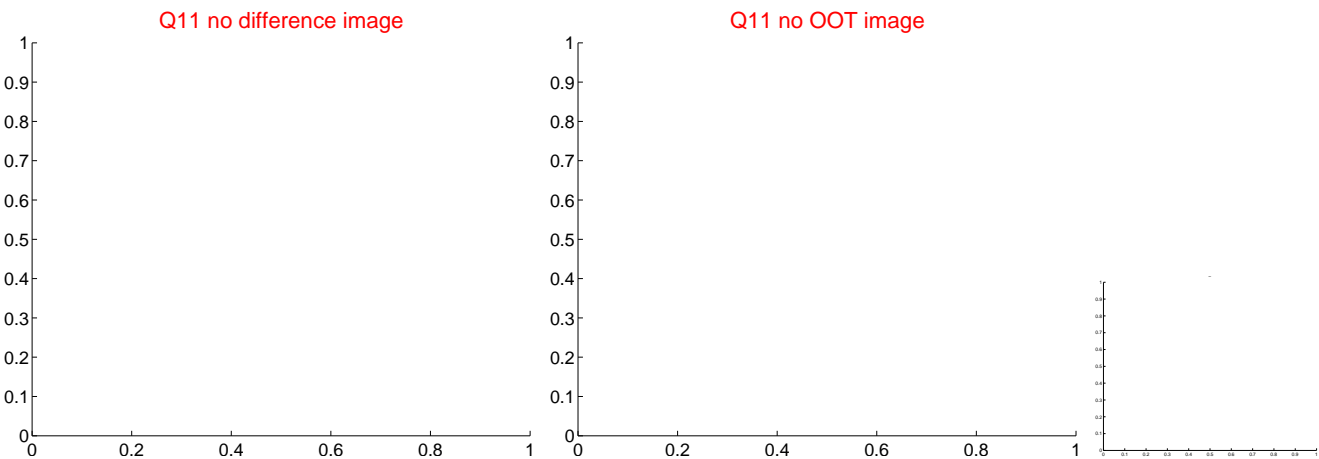
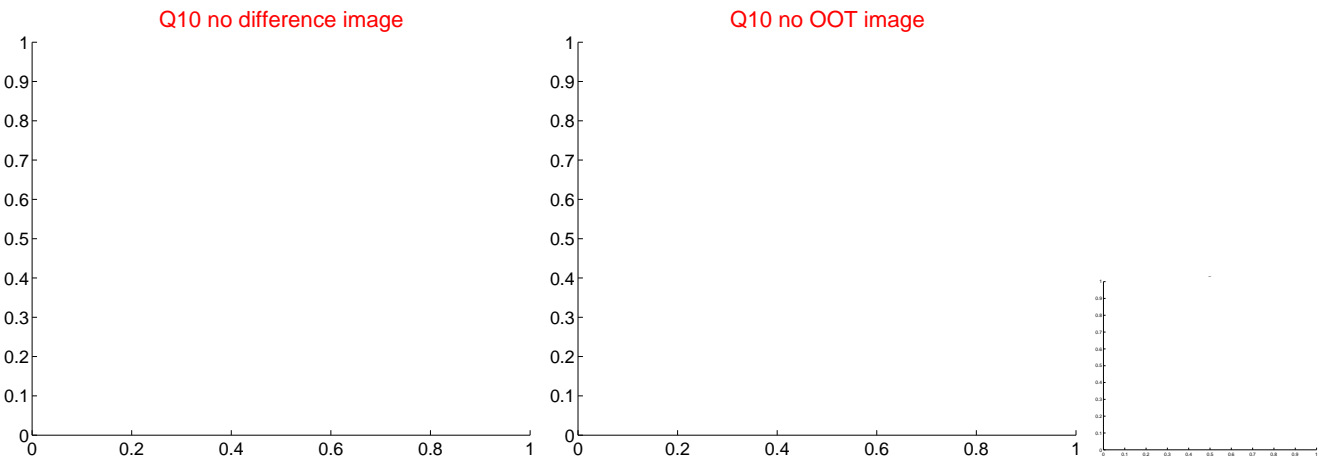
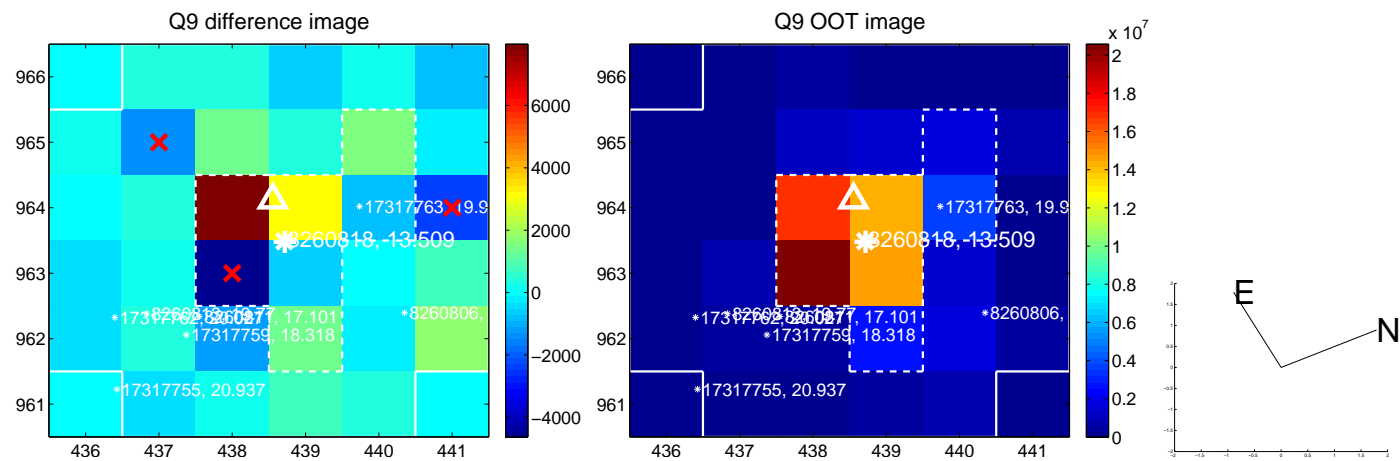
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



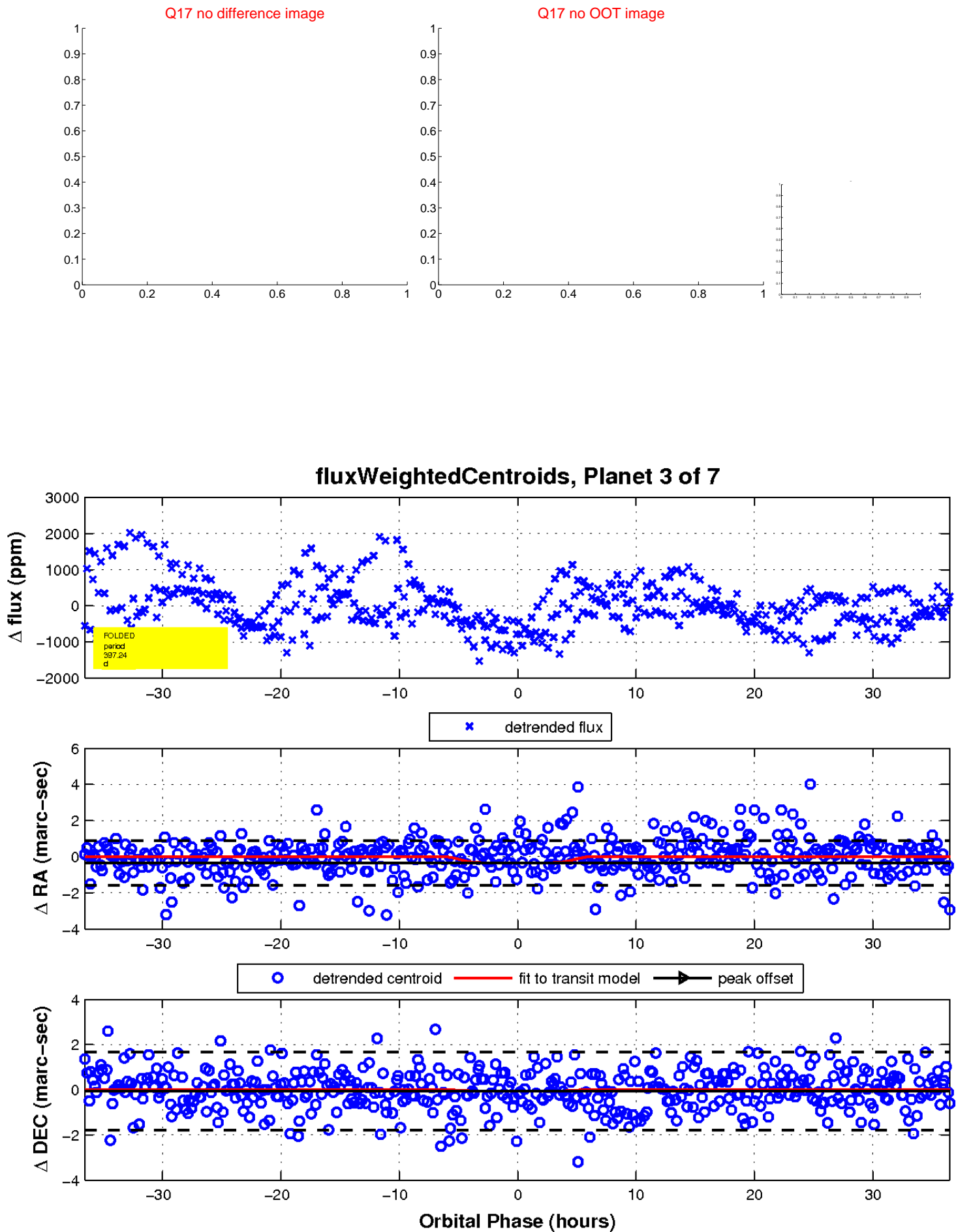
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

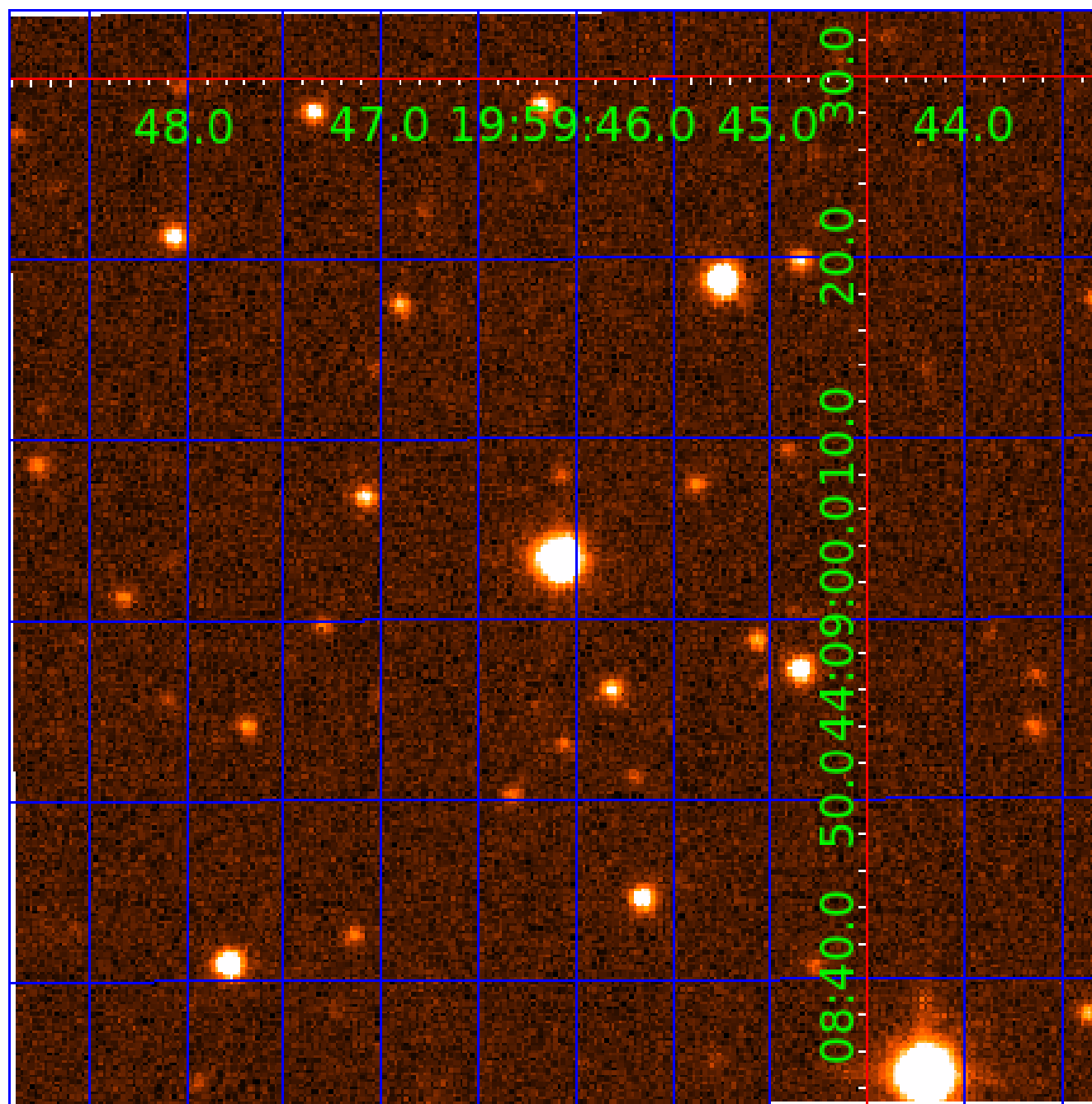


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008260818

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})
008260818-01	OBS	No	1.450235	131.907912	58.3	5.252	11.1	7.9	1.58	7014	1.57	6858.74
008260818-02	OBS	No	1.450228	132.792445	81.8	5.973	11.5	10.1	1.58	7014	1.97	6858.78
008260818-03	OBS	No	397.242264	432.587880	1553.2	12.202	12.5	9.8	1.58	7014	7.28	3.86
008260818-05	OBS	No	10.494872	141.469916	294.7	6.244	8.7	7.3	1.58	7014	3.41	490.00
008260818-06	OBS	No	15.598895	134.646469	500.5	7.220	8.3	8.3	1.58	7014	6.72	288.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008260818-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008260818-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD
008260818-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
008260818-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008260818-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

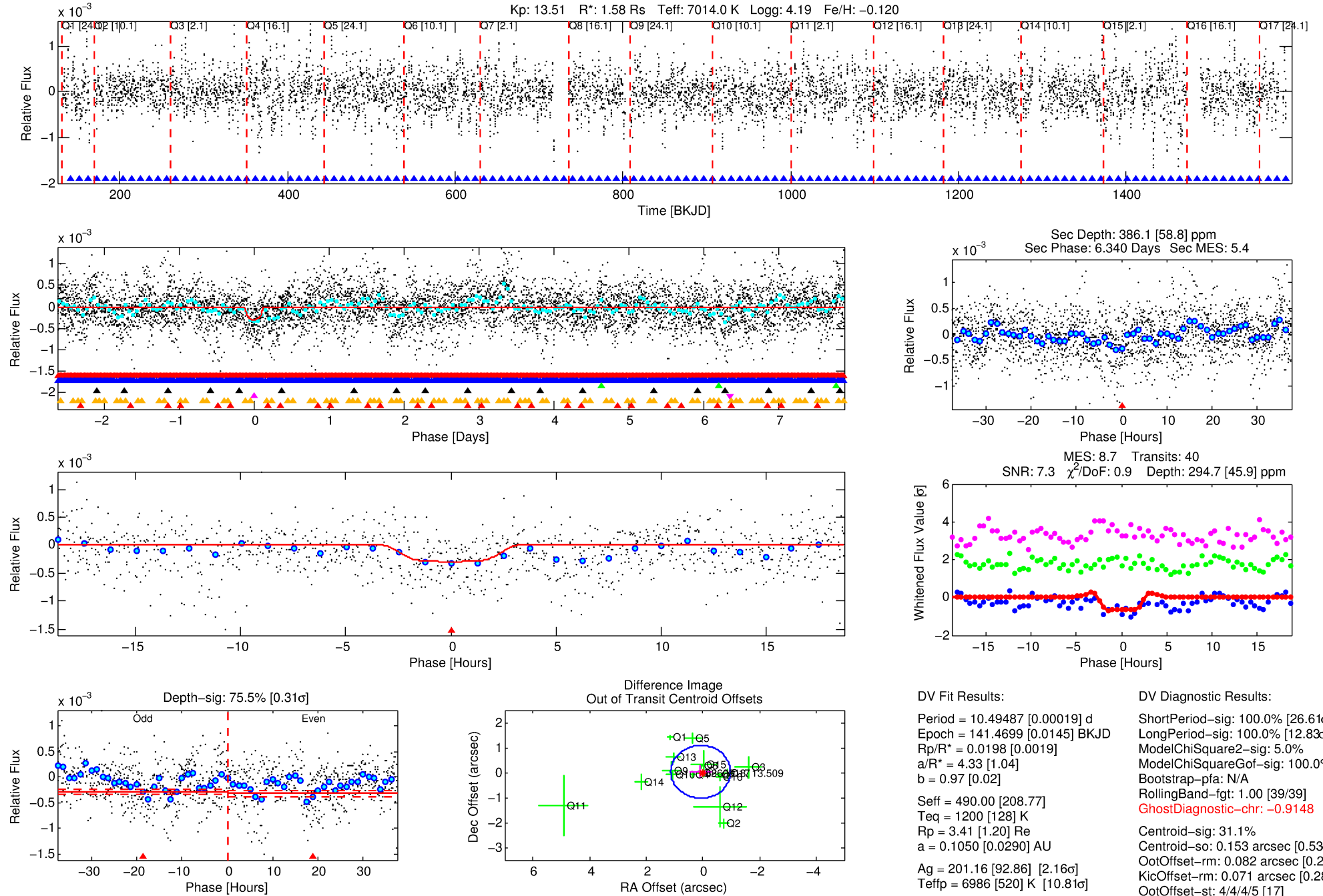
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008260818-05

No Significant Match Found

DV One-Page Summary

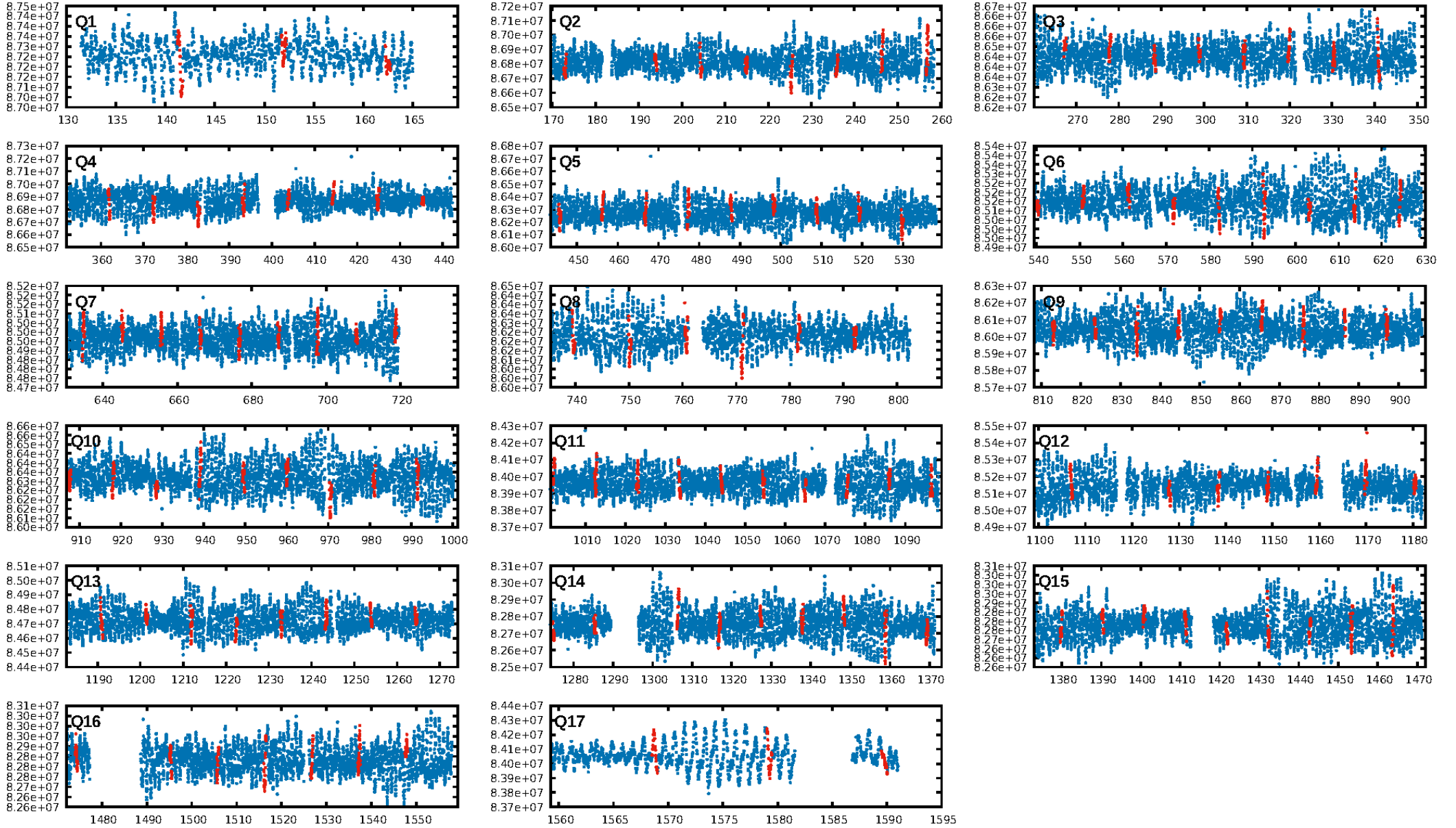
KIC: 8260818 Candidate: 5 of 7 Period: 10.495 d



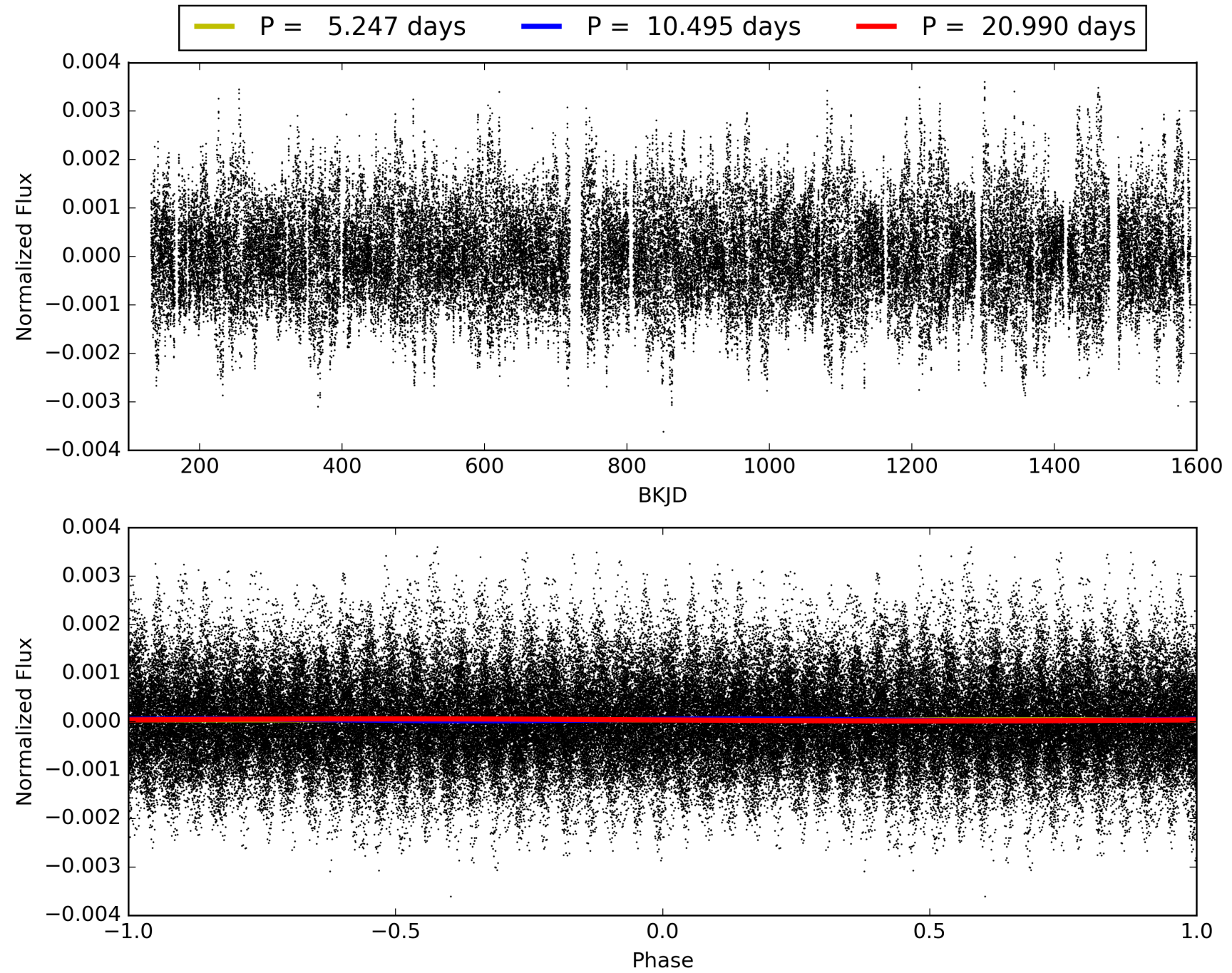
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:18:42 Z

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

TCE 008260818-05, PDC Light Curves

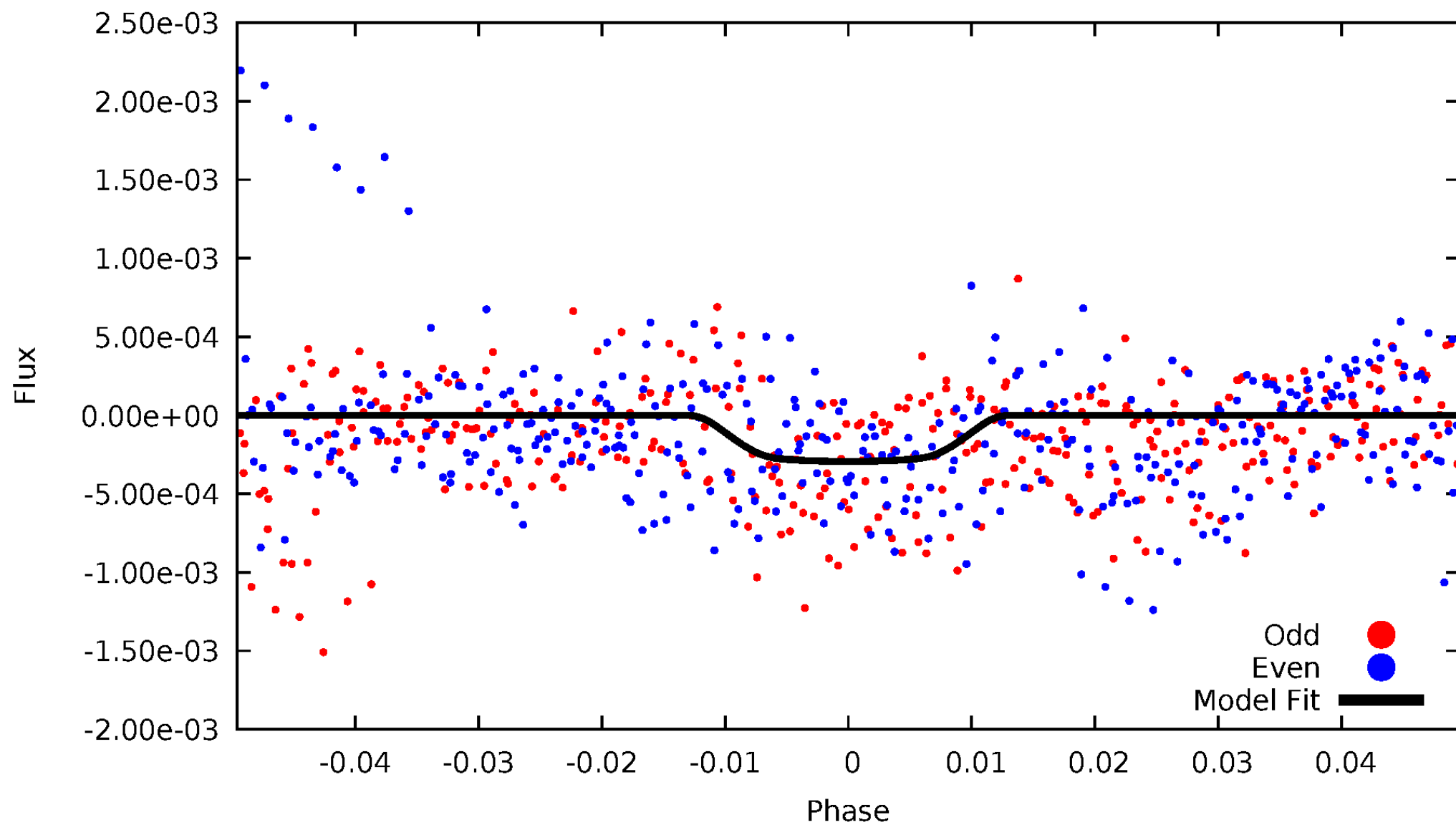


TCE 008260818-05



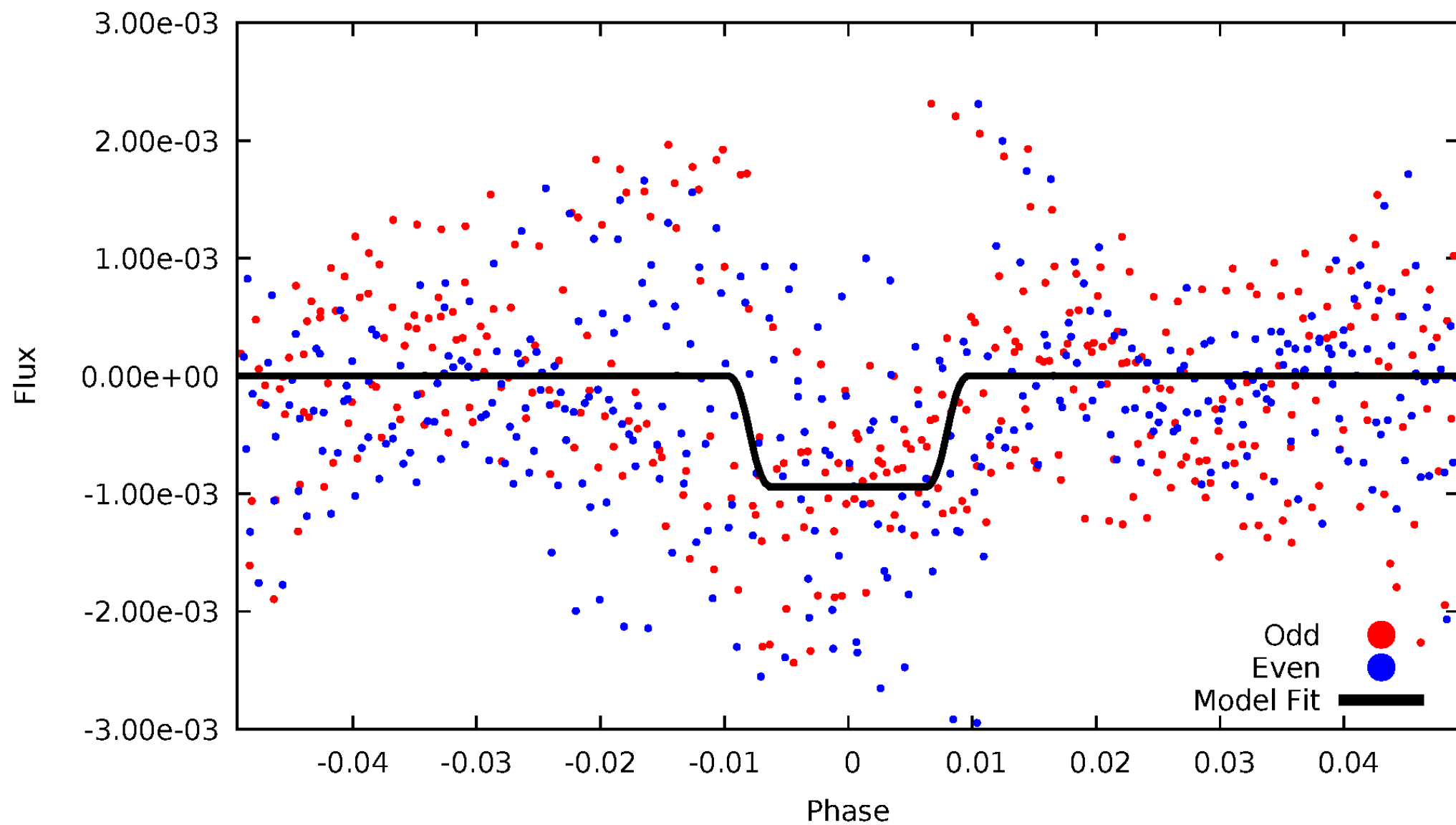
DV Odd/Even

TCE 008260818-05



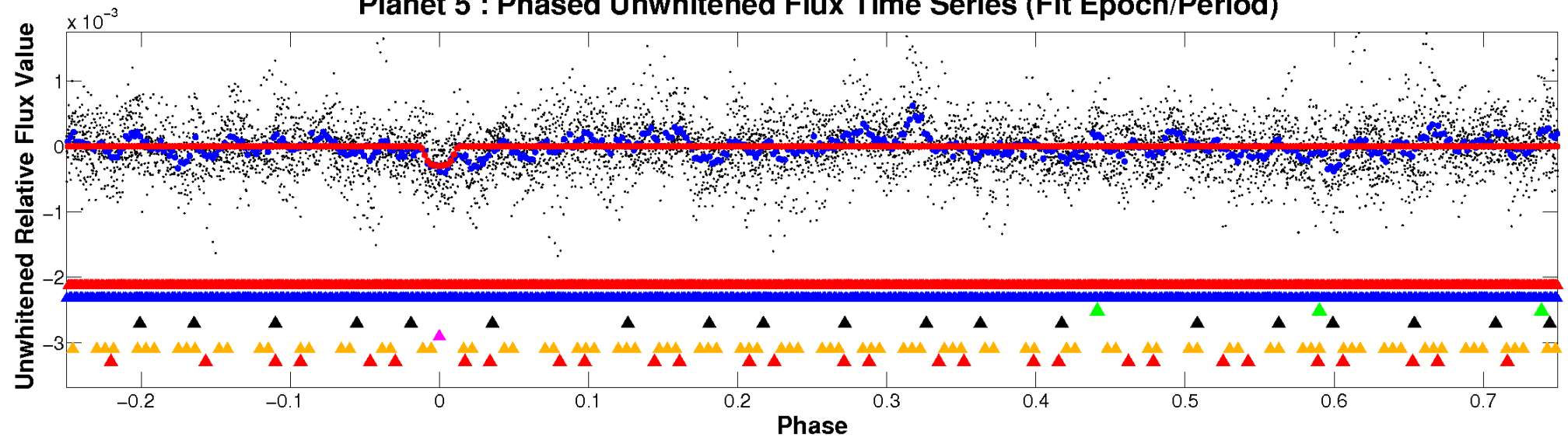
ALT Odd/Even

TCE 008260818-05

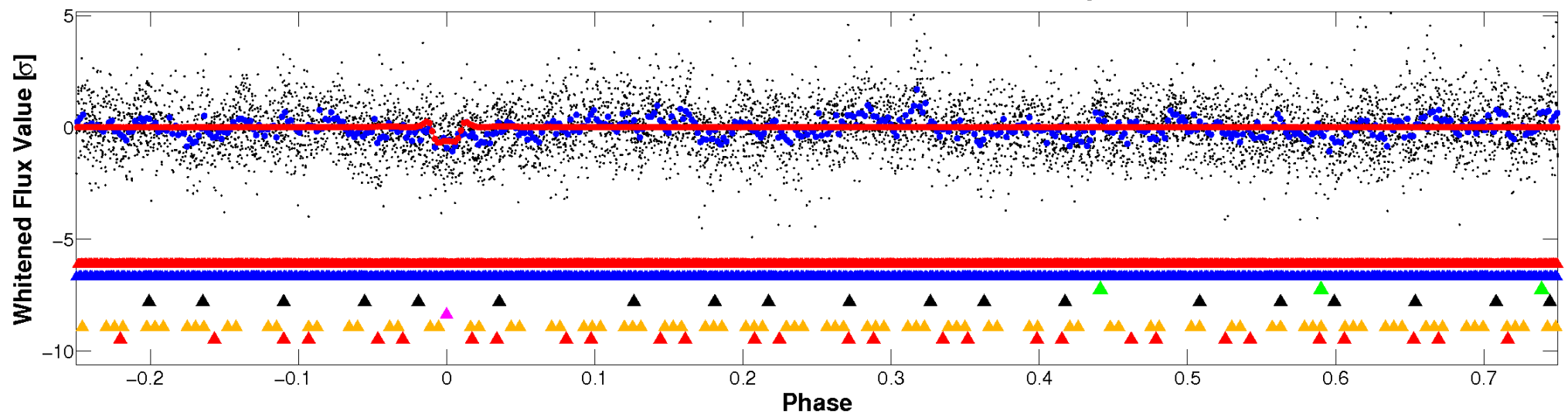


Non-Whitened Vs. Whitened Light Curve

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

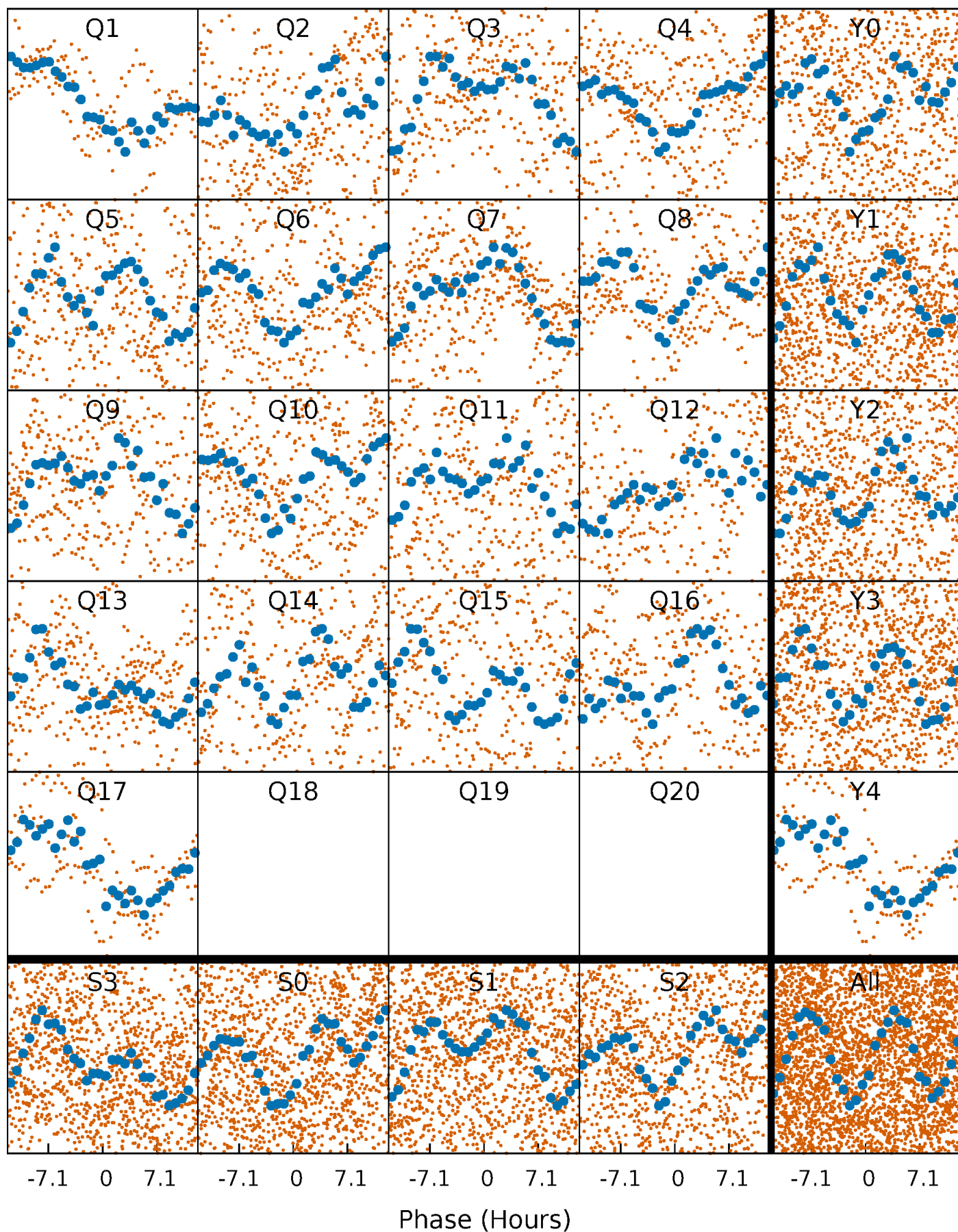


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



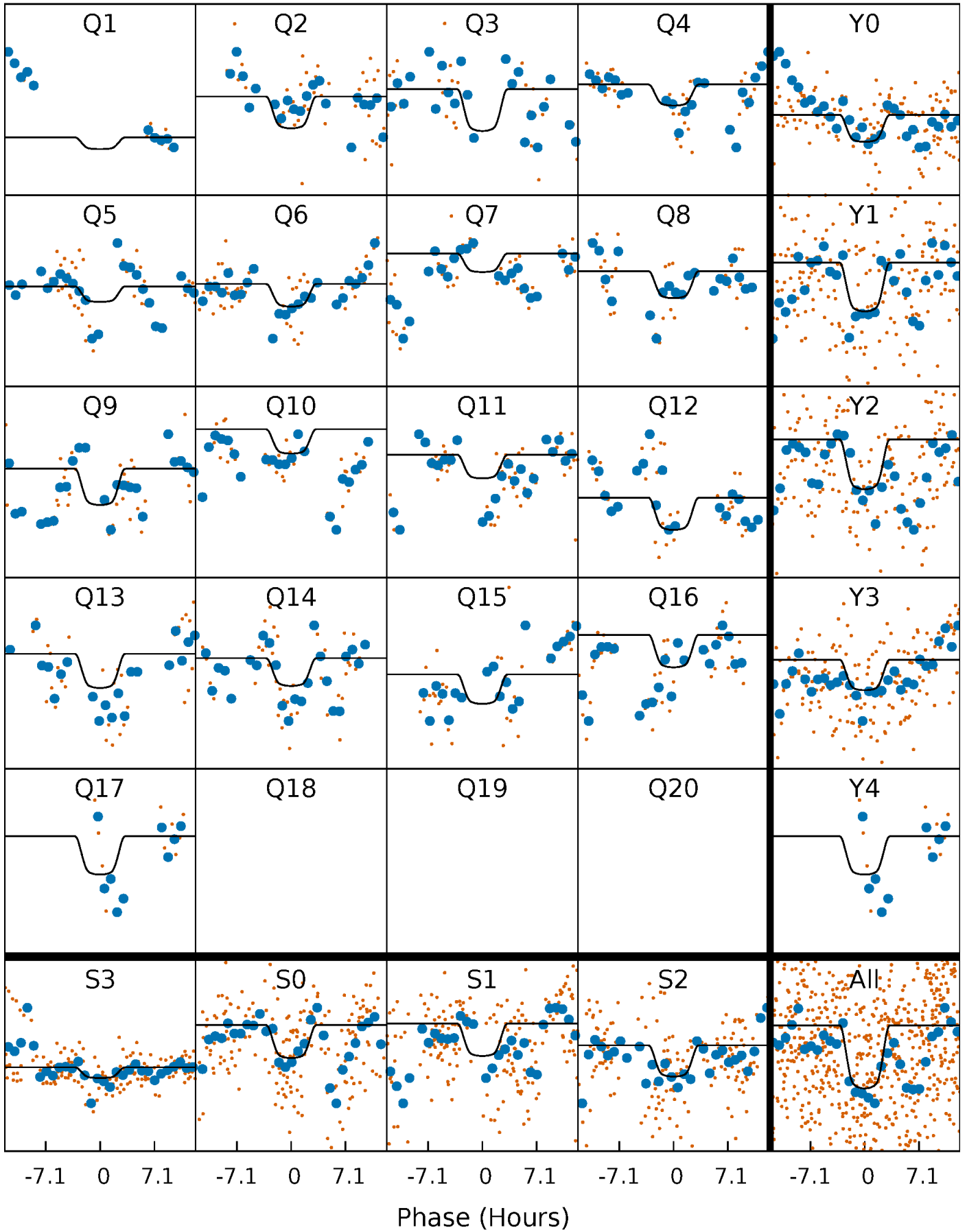
PDC Quarter-Phased Transit Curves

TCE 008260818-05 P= 10.494872 Days $T_0=141.469916$ (BKJD)



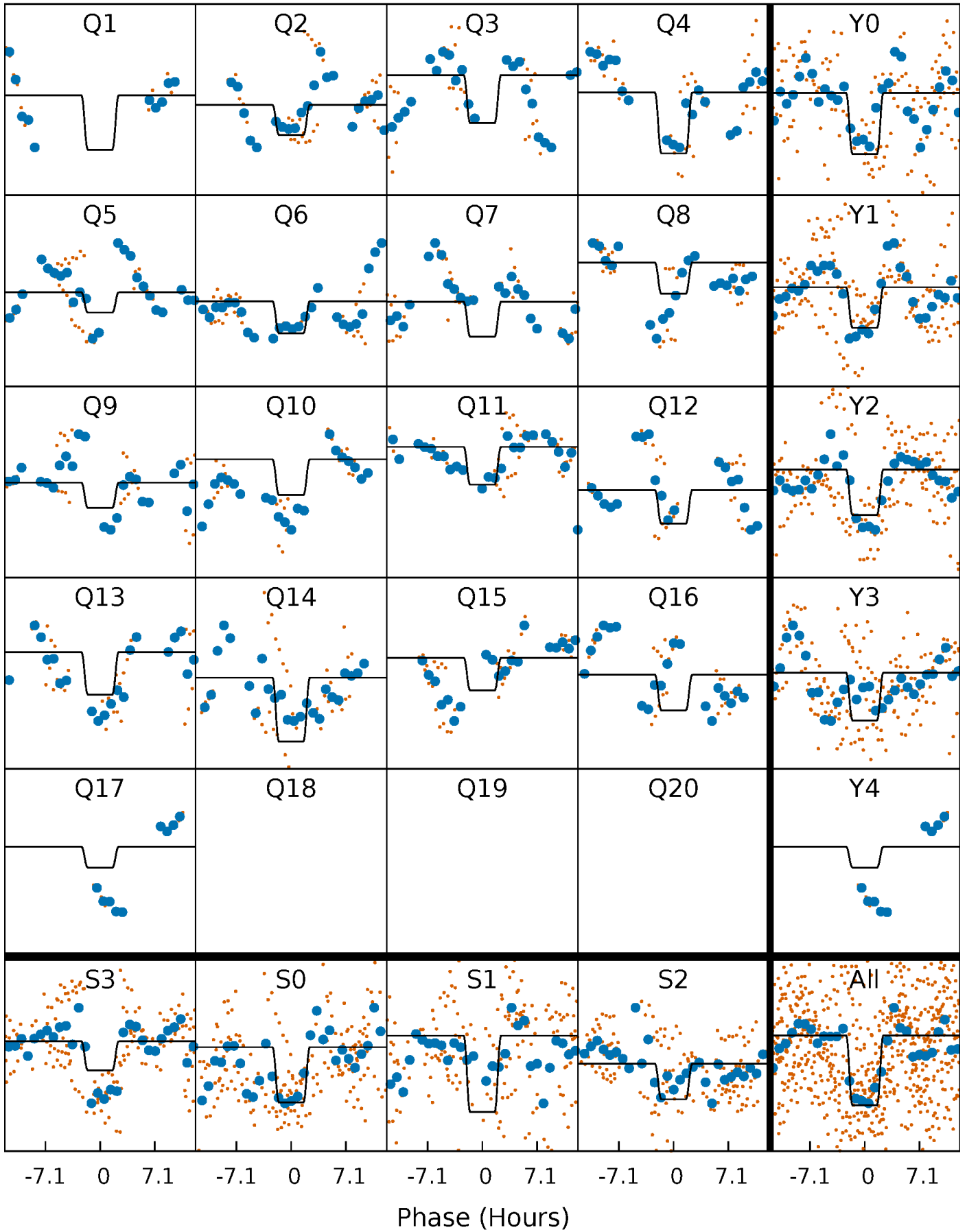
DV Quarter-Phased Transit Curves

TCE 008260818-05 $P = 10.494872$ Days $T_0 = 141.469916$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

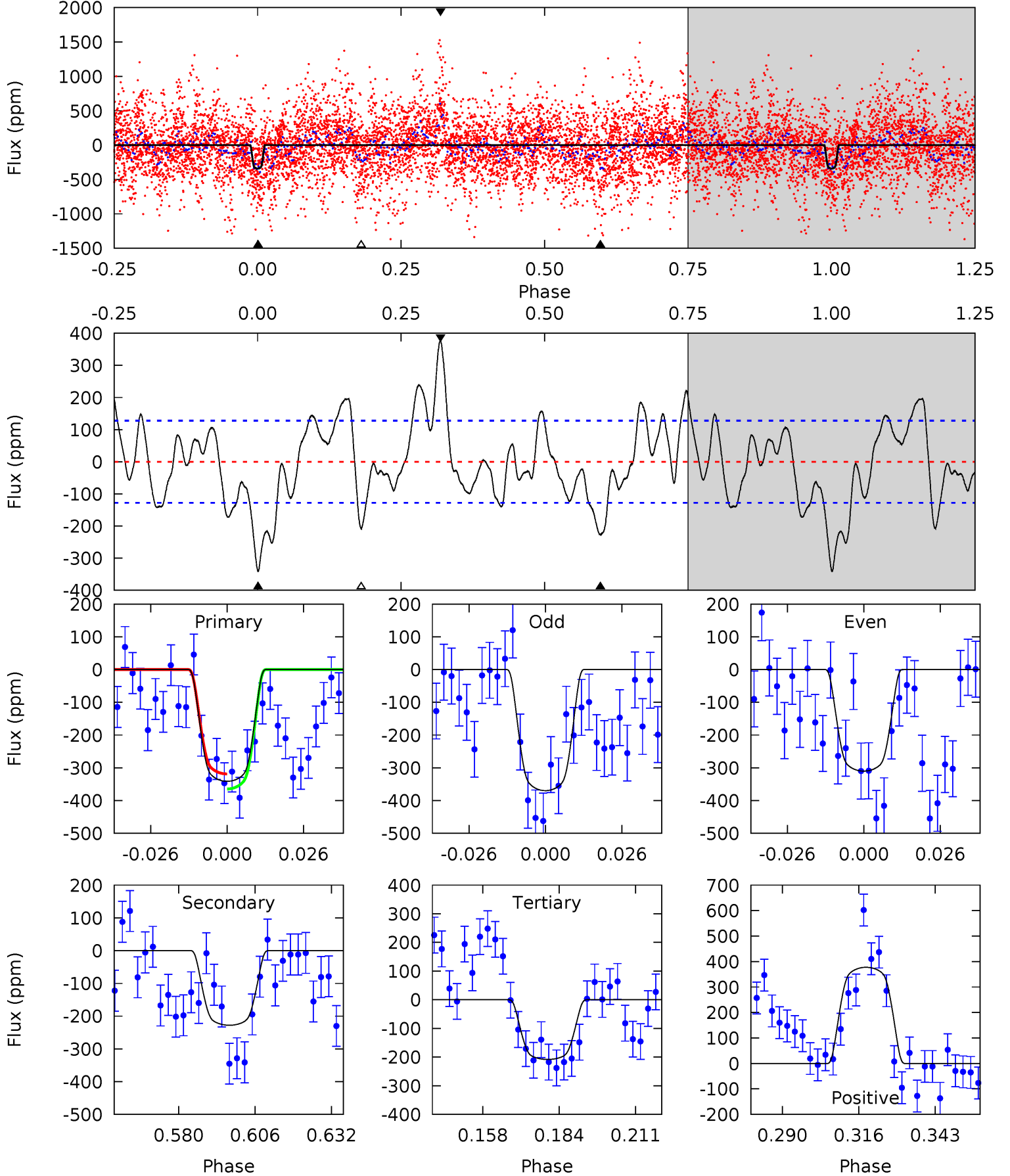
TCE 008260818-05 P= 10.494975 Days $T_0=141.461298$ (BKJD)



DV Model-Shift Uniqueness Test

008260818-05, P = 10.494872 Days, E = 130.975044 Days

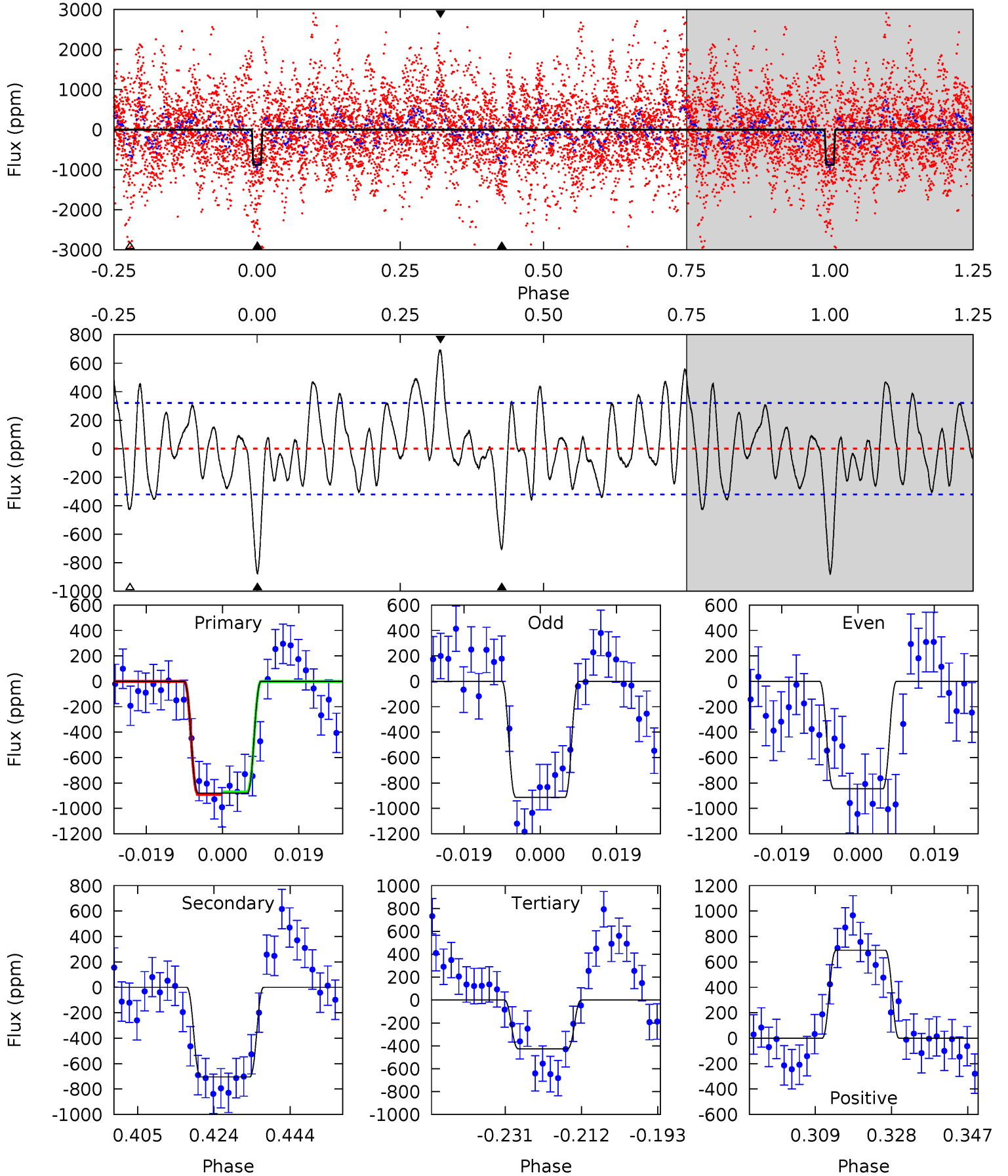
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	8.62	7.88	14.3	4.84	2.22	4.03	5.04	-1.36	0.74	-5.66	1.13	0.65	0.53	0.87



Alt Model-Shift Uniqueness Test

008260818-05, P = 10.494975 Days, E = 130.966323 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.4	10.7	6.50	10.5	4.90	2.34	3.32	6.92	2.88	4.24	0.20	0.51	0.88	0.44	0.16



Stellar Parameters For KIC 008260818

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7014^{+197}_{-296}	$4.188^{+0.128}_{-0.208}$	$-0.120^{+0.250}_{-0.350}$	$1.578^{+0.535}_{-0.288}$	$1.408^{+0.220}_{-0.242}$	$0.504^{+0.321}_{-0.265}$
	+3%/-4%	+3%/-5%	+208%/-292%	+34%/-18%	+16%/-17%	+64%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008260818-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-228 ± 26	$3.41^{+0.72}_{-0.48}$	1682^{+134}_{-111}	6043^{+443}_{-347}	115^{+44}_{-34}
Alt.	-704 ± 66	$5.34^{+1.01}_{-0.76}$	1689^{+130}_{-118}	6458^{+356}_{-337}	146^{+48}_{-40}

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

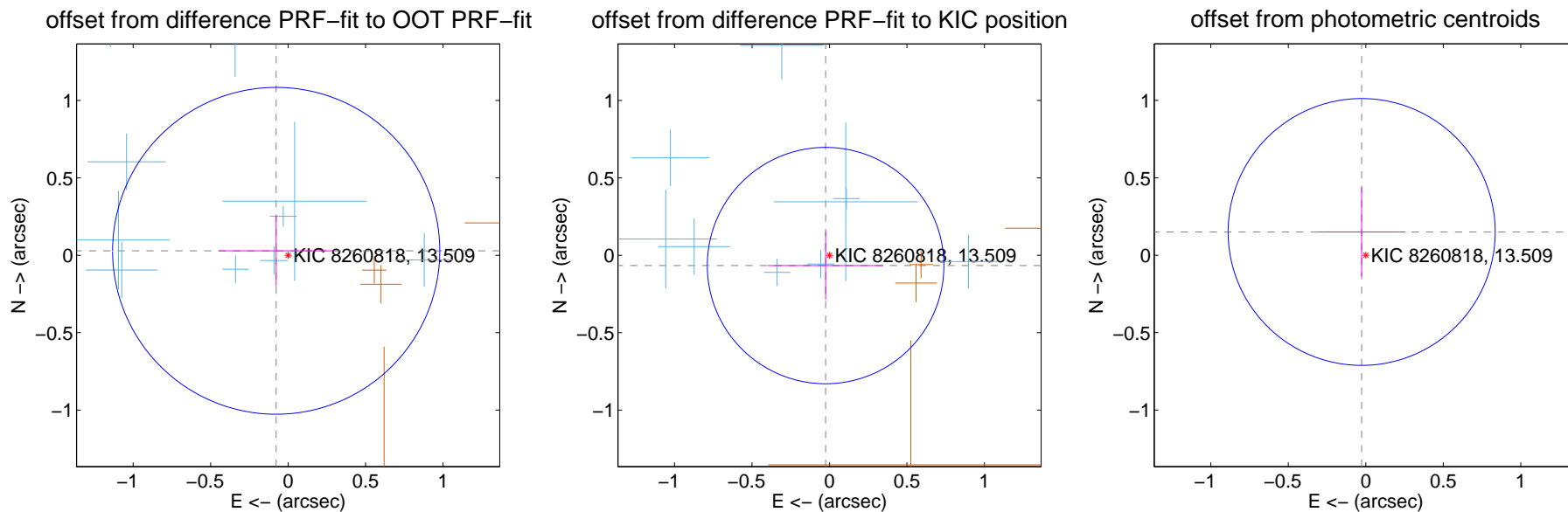
DV Centroid Data

Supplemental centroid analysis for 008260818-05. Kepler magnitude: 13.51. Transit SNR 7.31

There are 12 quarters with good PRF difference image offsets

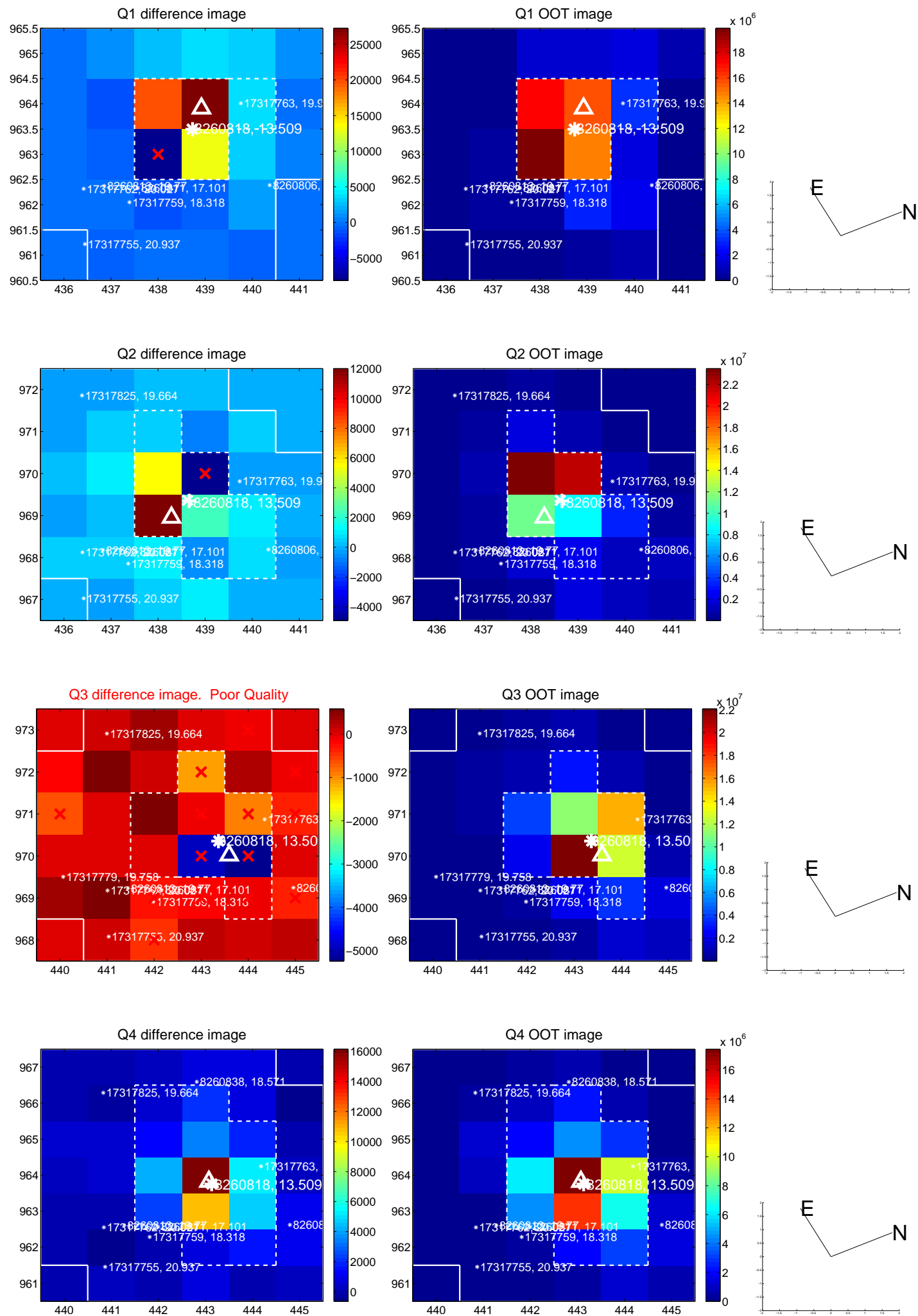
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.082 ± 0.352	0.23	0.077 ± 0.371	0.029 ± 0.228
PRF-fit source offset from KIC position	0.071 ± 0.255	0.28	0.025 ± 0.373	-0.067 ± 0.219
photometric centroid source offset	0.15 ± 0.29	0.53	0.03 ± 0.28	0.15 ± 0.29

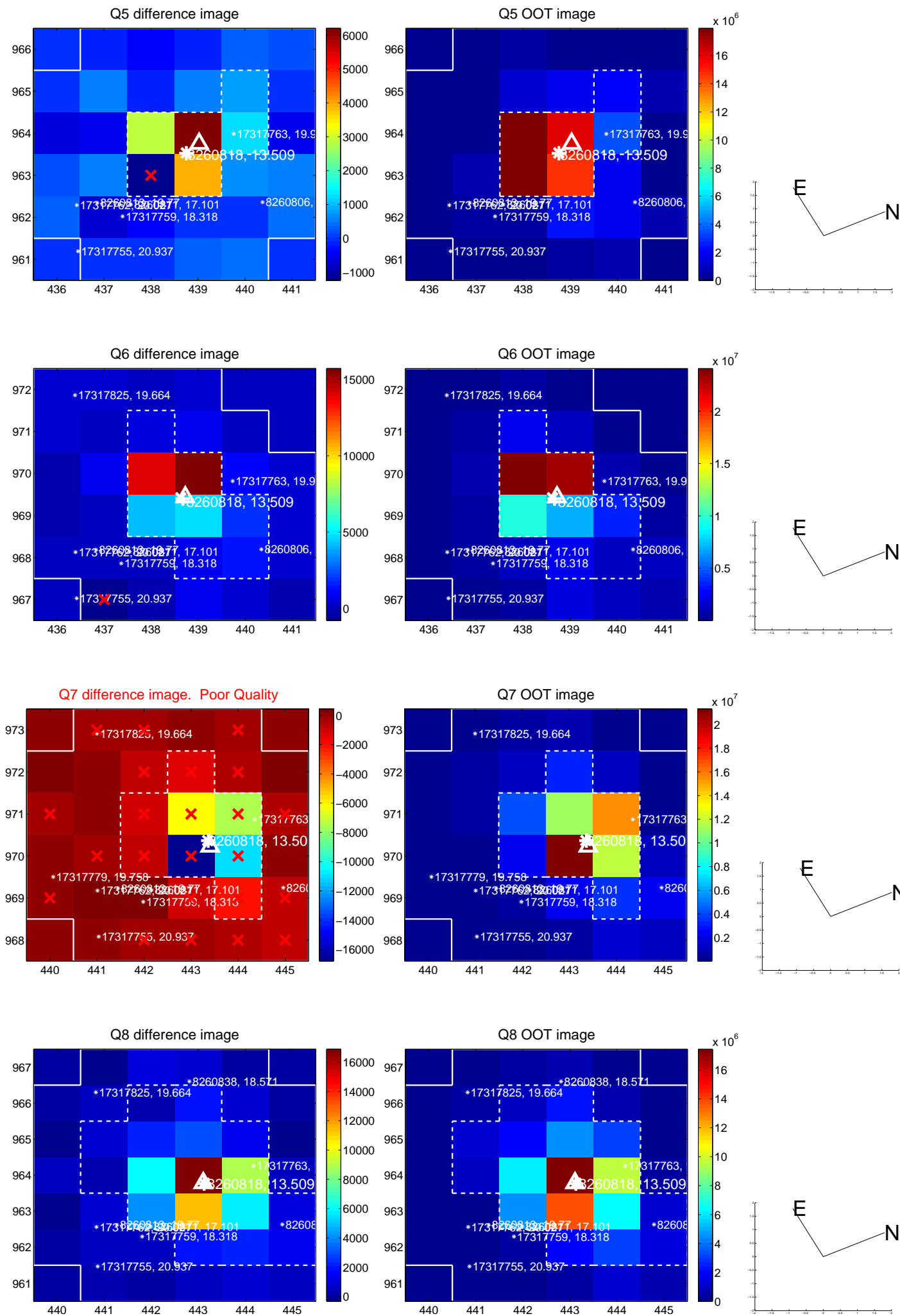


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

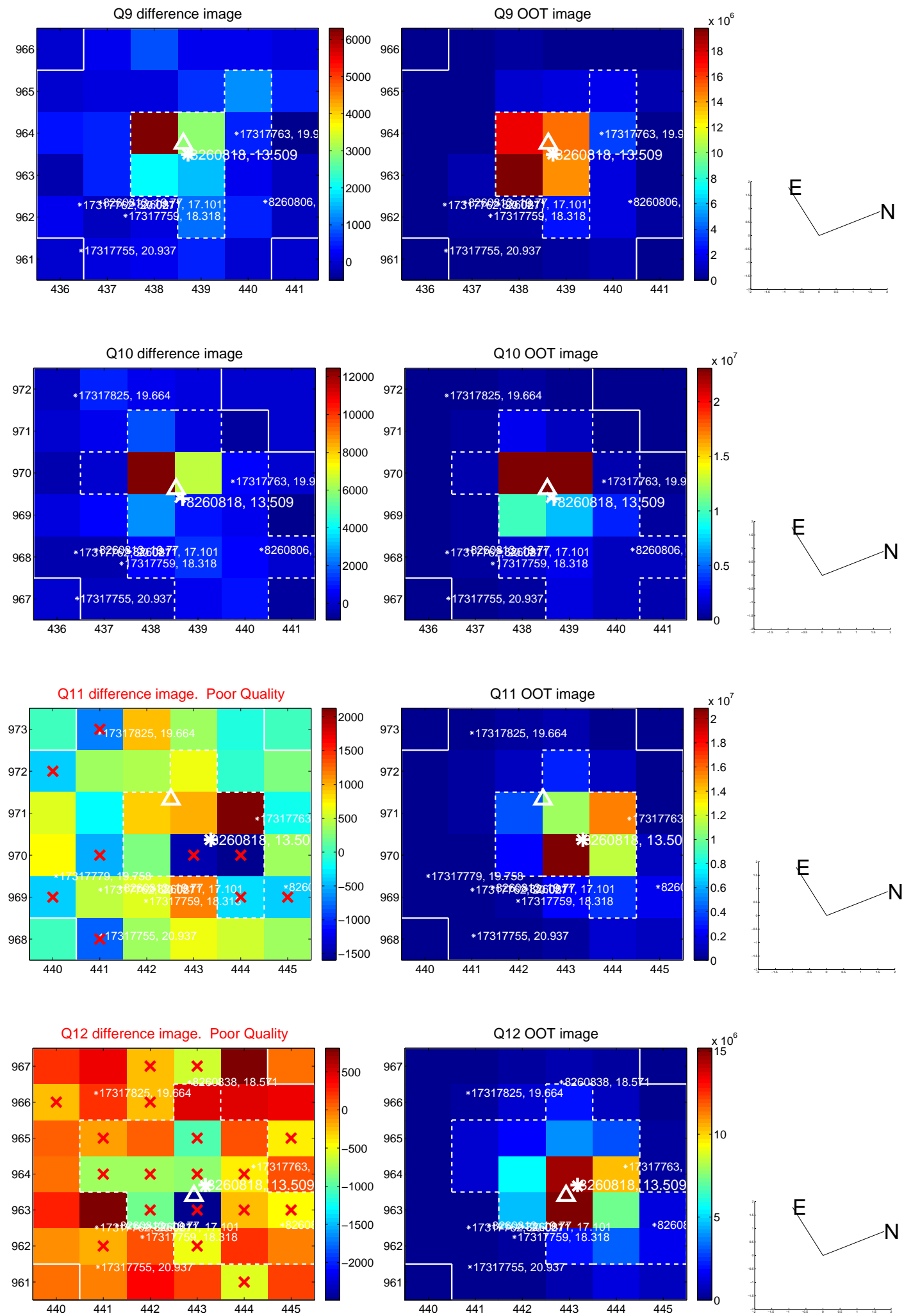
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



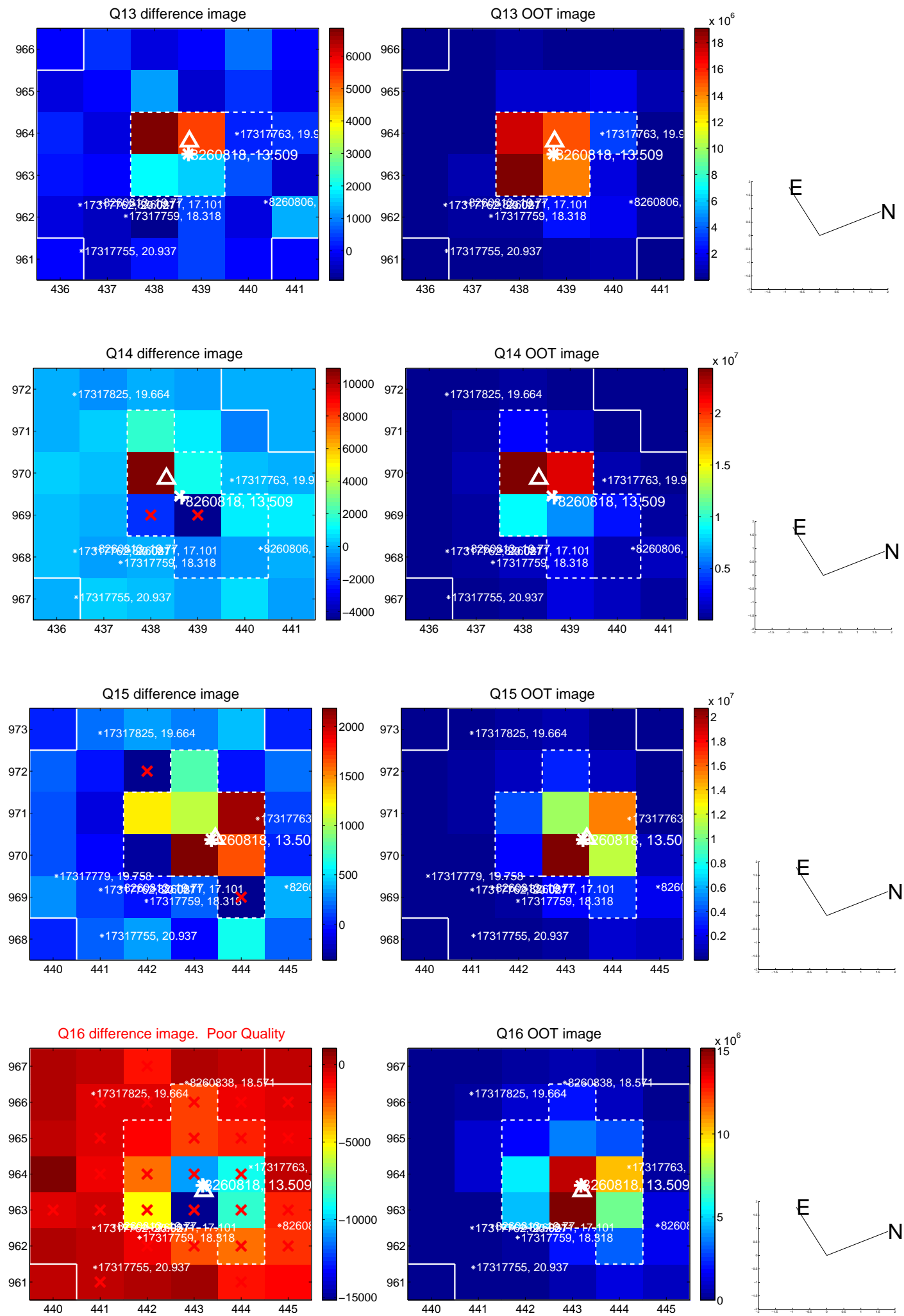
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



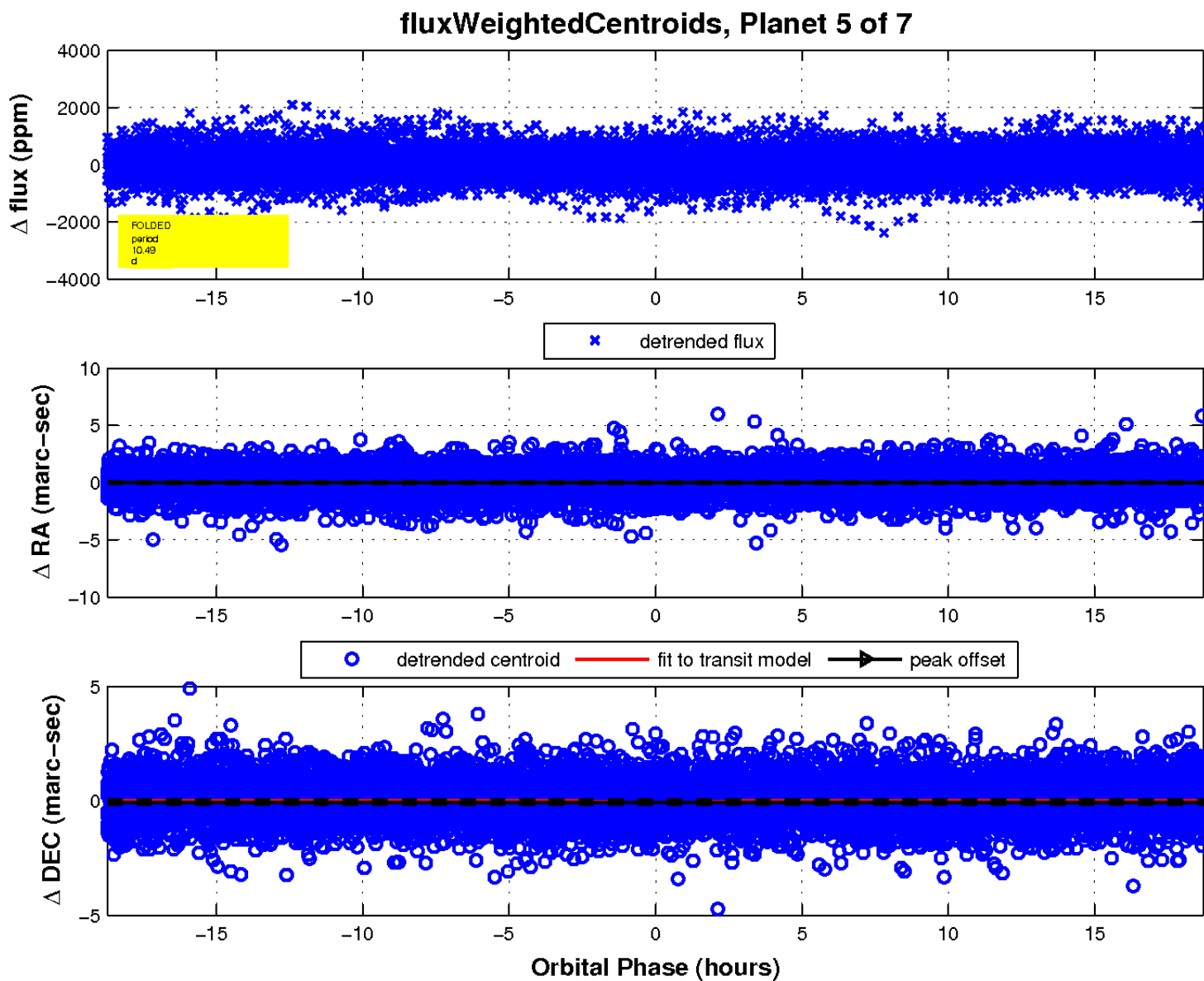
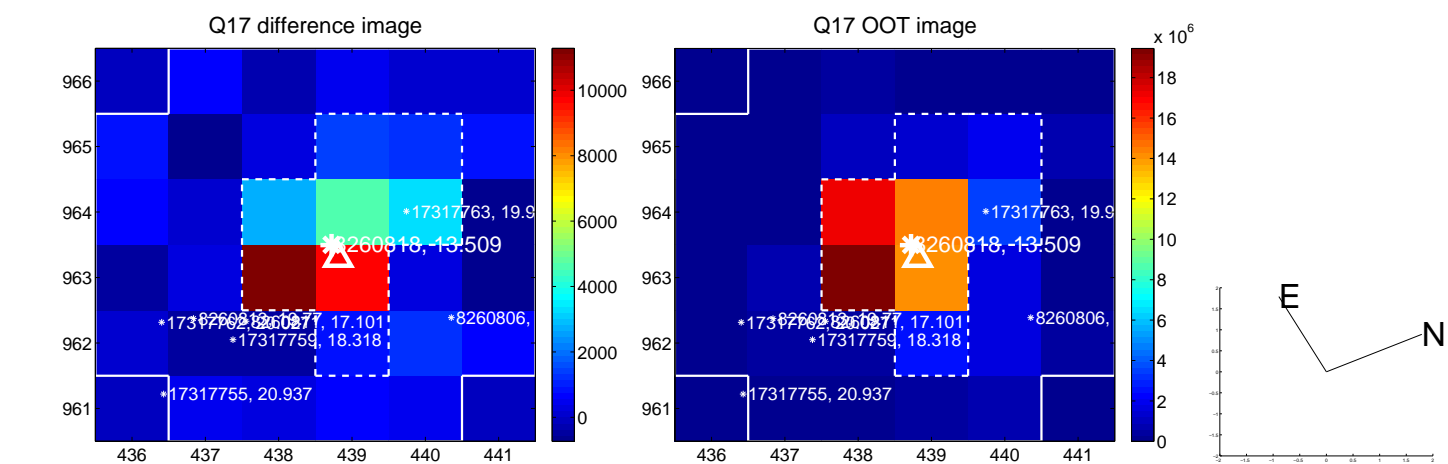
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

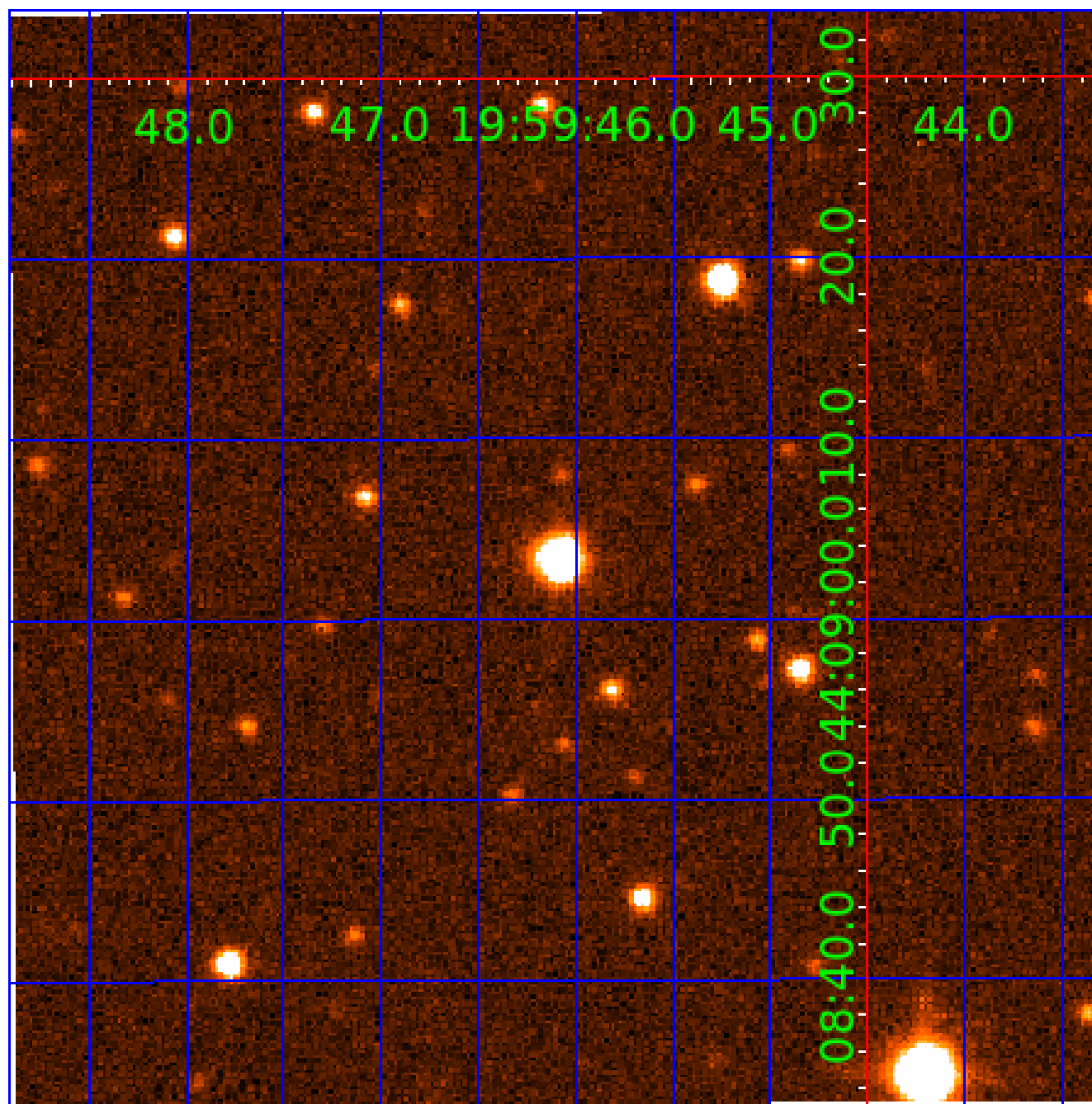


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008260818

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})
008260818-01	OBS	No	1.450235	131.907912	58.3	5.252	11.1	7.9	1.58	7014	1.57	6858.74
008260818-02	OBS	No	1.450228	132.792445	81.8	5.973	11.5	10.1	1.58	7014	1.97	6858.78
008260818-03	OBS	No	397.242264	432.587880	1553.2	12.202	12.5	9.8	1.58	7014	7.28	3.86
008260818-05	OBS	No	10.494872	141.469916	294.7	6.244	8.7	7.3	1.58	7014	3.41	490.00
008260818-06	OBS	No	15.598895	134.646469	500.5	7.220	8.3	8.3	1.58	7014	6.72	288.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008260818-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
008260818-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD
008260818-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
008260818-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008260818-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

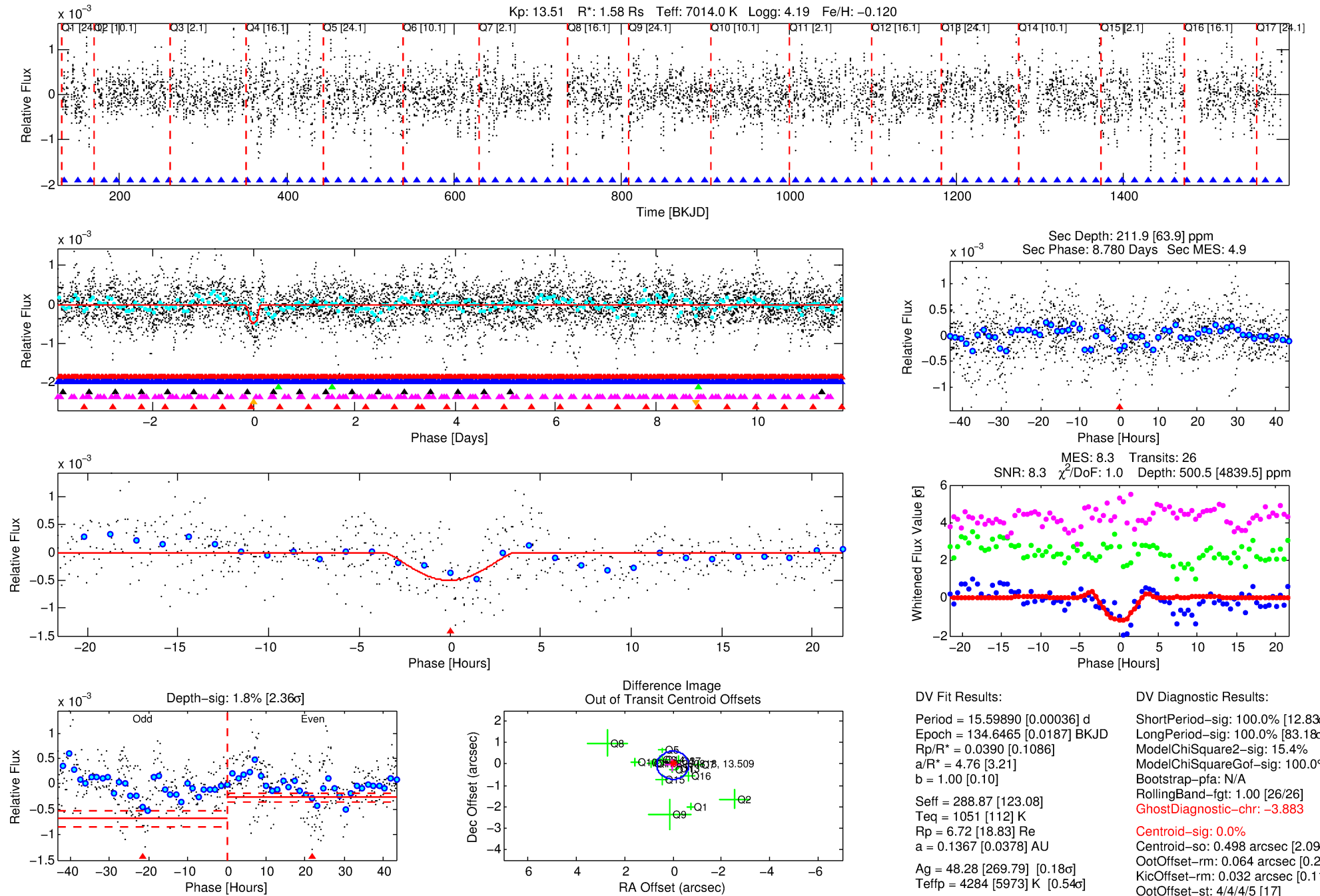
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008260818-06

No Significant Match Found

DV One-Page Summary

KIC: 8260818 Candidate: 6 of 7 Period: 15.599 d



DV Fit Results:

Period = 15.59890 [0.00036] d
Epoch = 134.6465 [0.0187] BKJD
Rp/R* = 0.0390 [0.1086]
a/R* = 4.76 [3.21]
b = 1.00 [0.10]
Seff = 288.87 [123.08]
Teff = 1051 [112] K
Rp = 6.72 [18.83] Re
a = 0.1367 [0.0378] AU
Ag = 48.28 [269.79] [0.18σ]
Teffp = 4284 [5973] K [0.54σ]

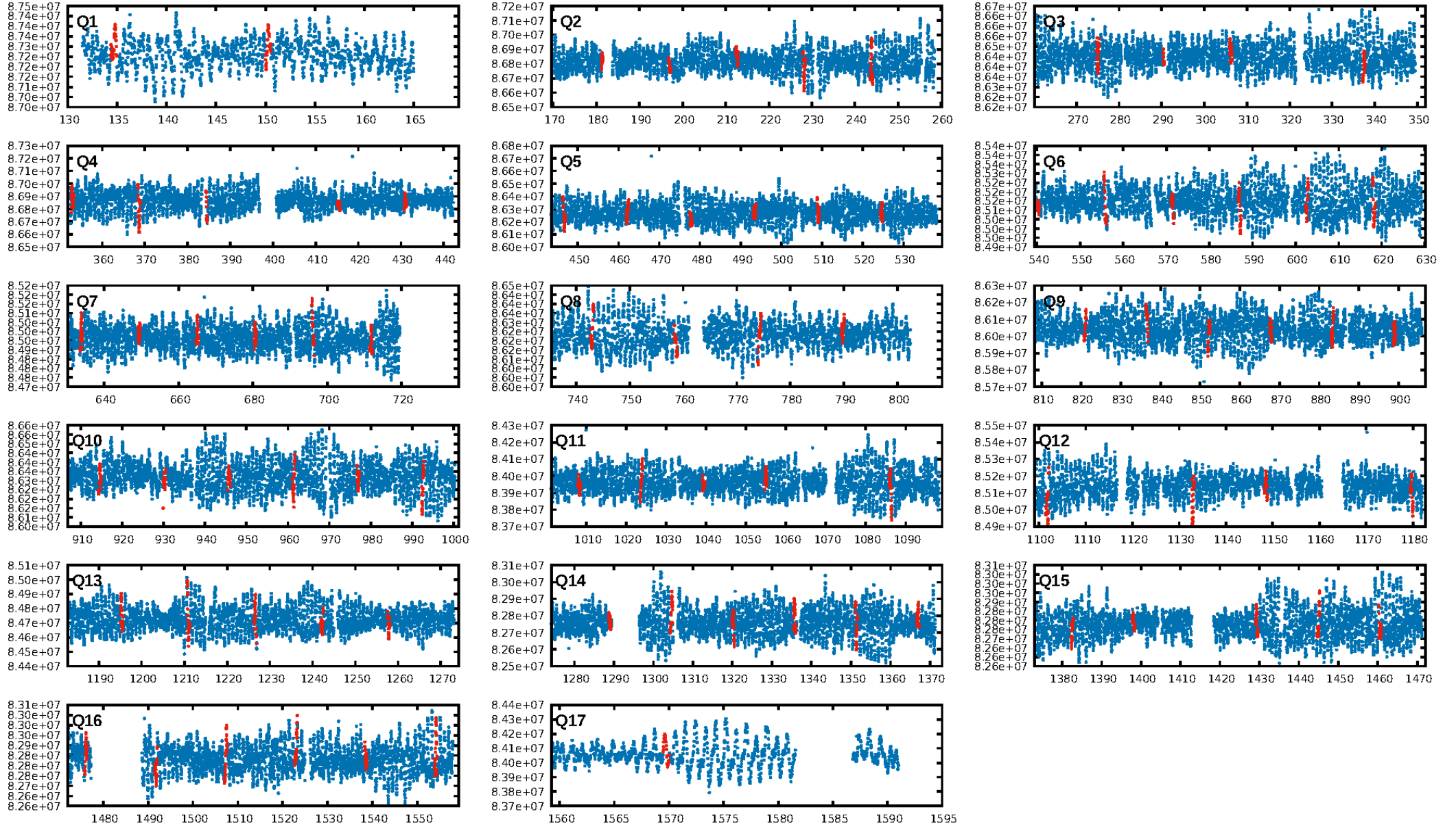
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [12.83σ]
LongPeriod-sig: 100.0% [83.18σ]
ModelChiSquare2-sig: 15.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [26/26]
GhostDiagnostic-chr: -3.883
Centroid-sig: 0.0%
Centroid-so: 0.498 arcsec [2.09σ]
OotOffset-rm: 0.064 arcsec [0.29σ]
KicOffset-rm: 0.032 arcsec [0.11σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 0.00 [0/17]

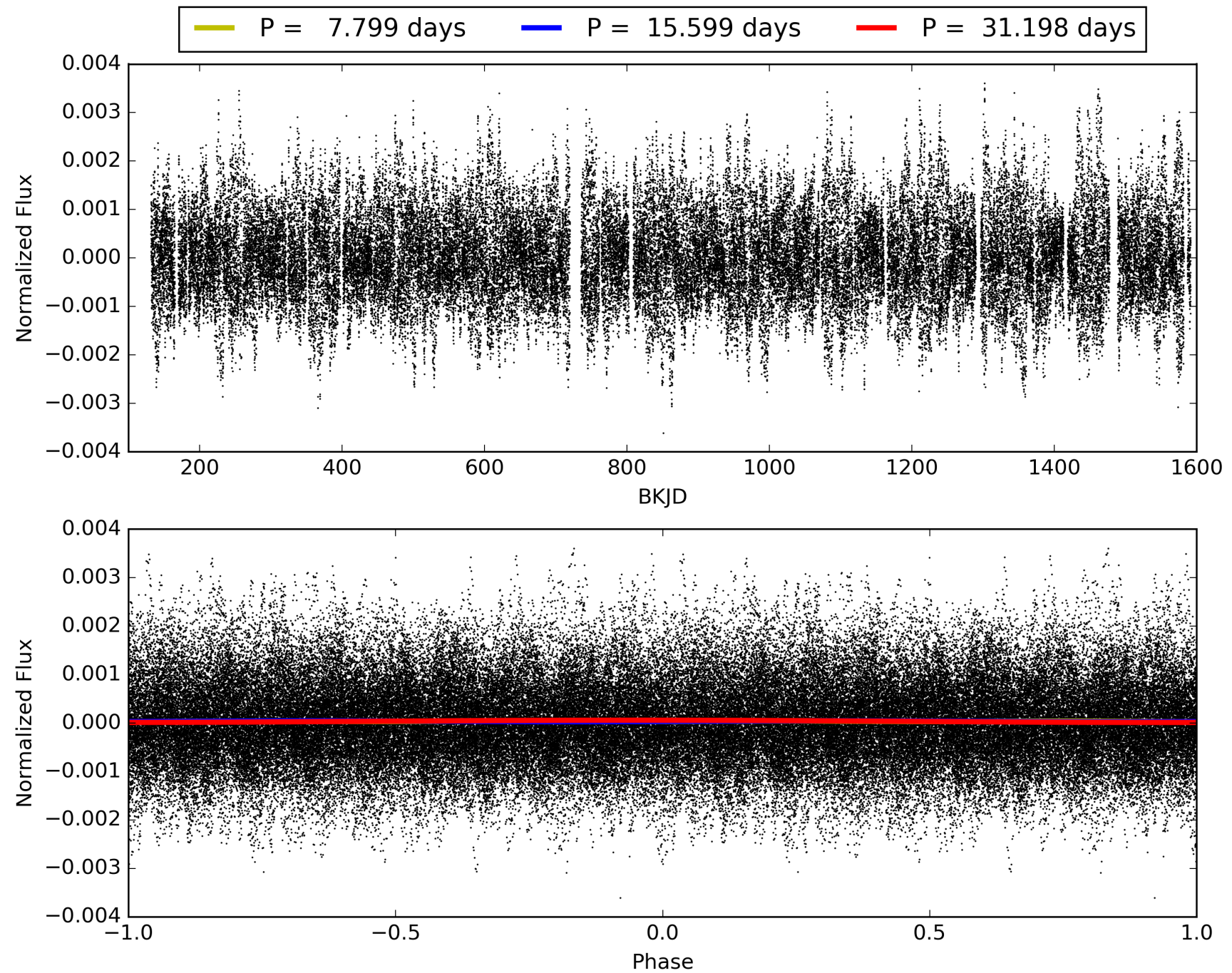
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:18:45 Z

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

TCE 008260818-06, PDC Light Curves

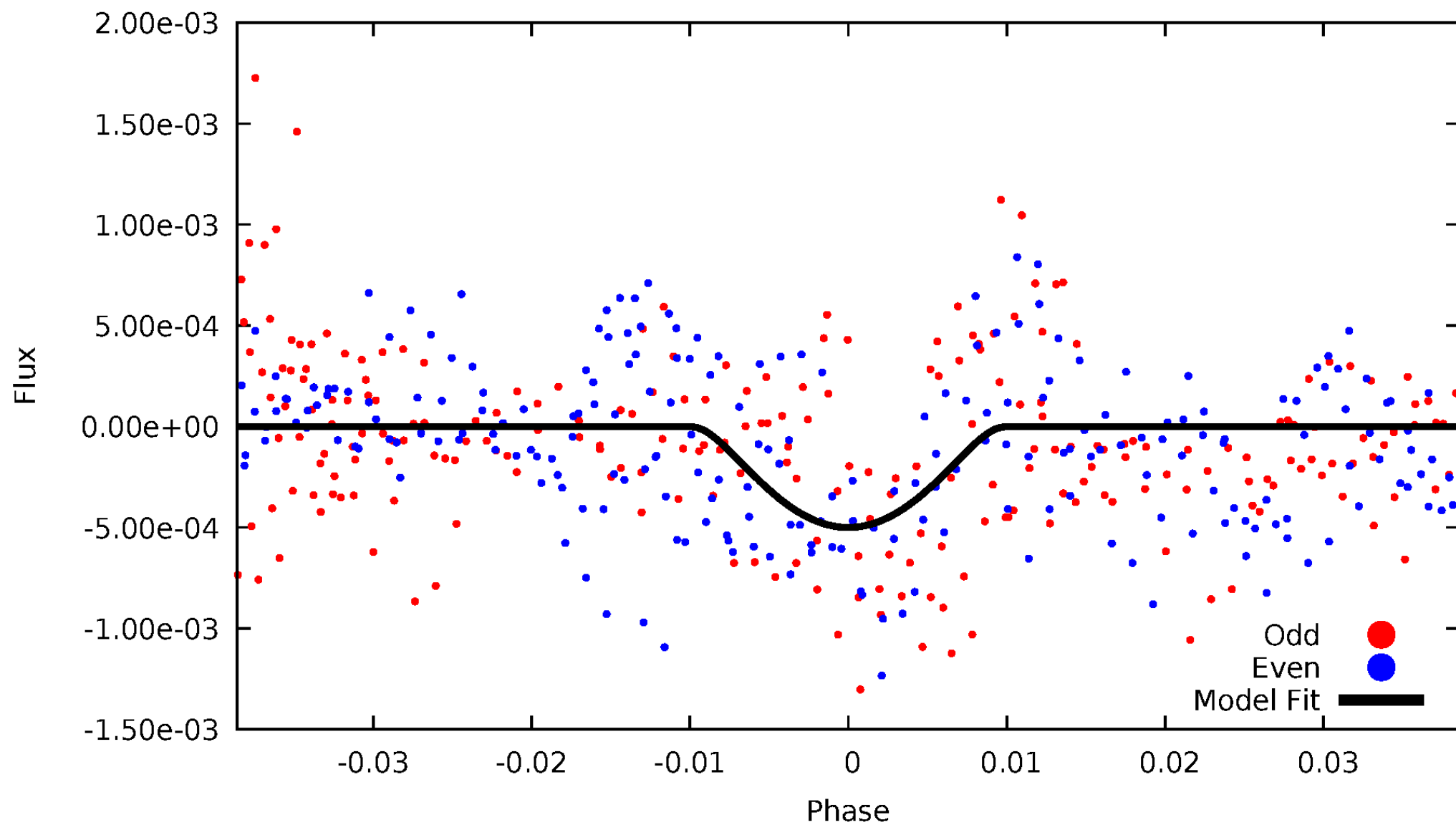


TCE 008260818-06



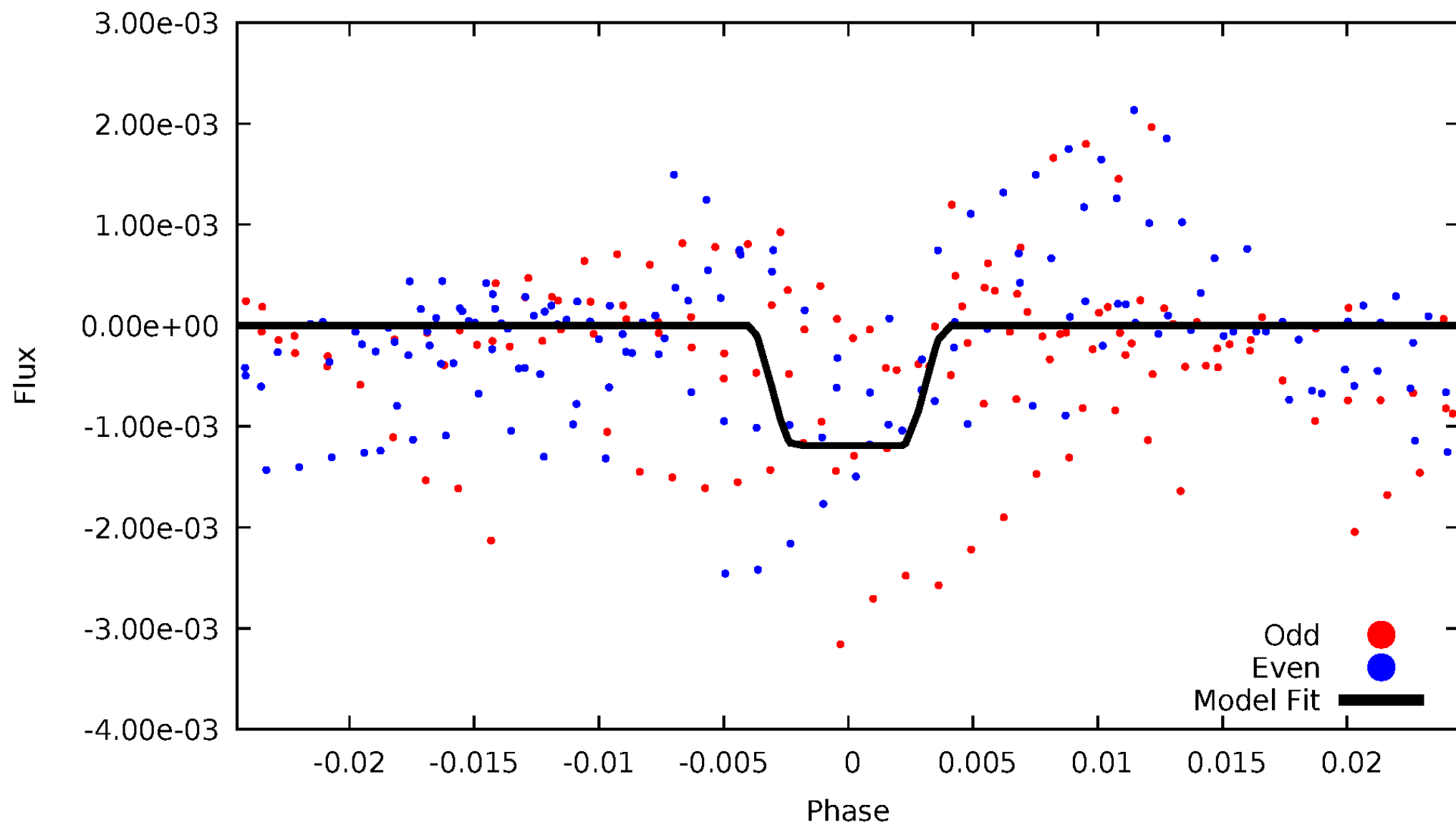
DV Odd/Even

TCE 008260818-06



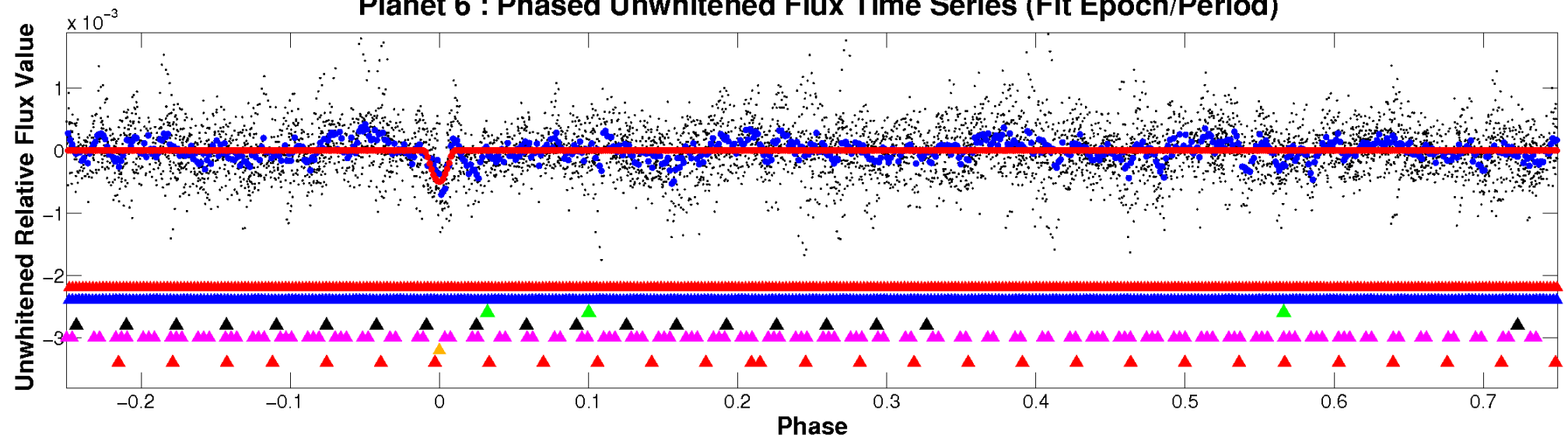
ALT Odd/Even

TCE 008260818-06

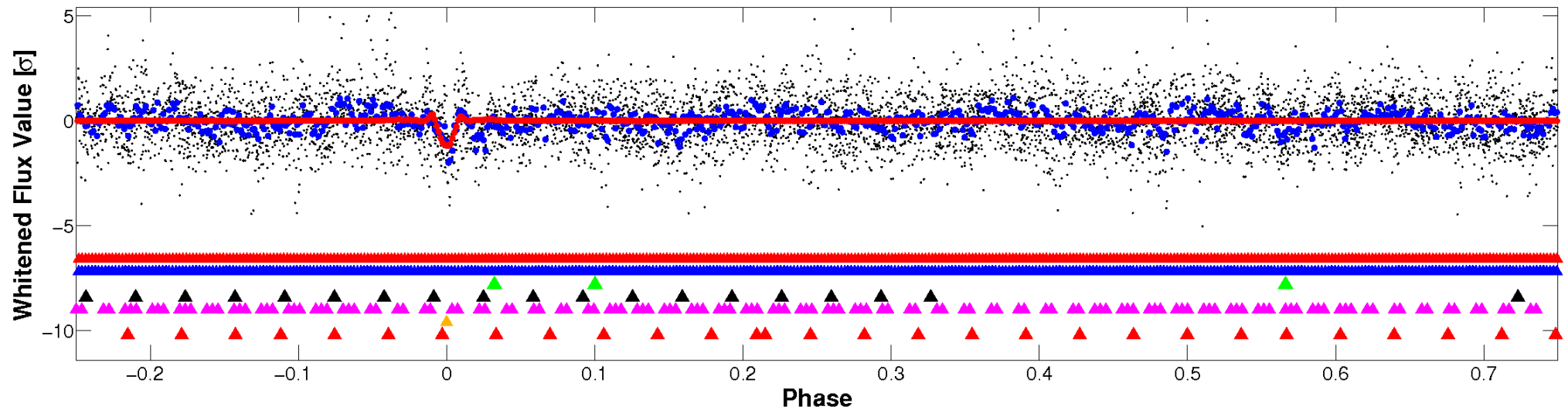


Non-Whitened Vs. Whitened Light Curve

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

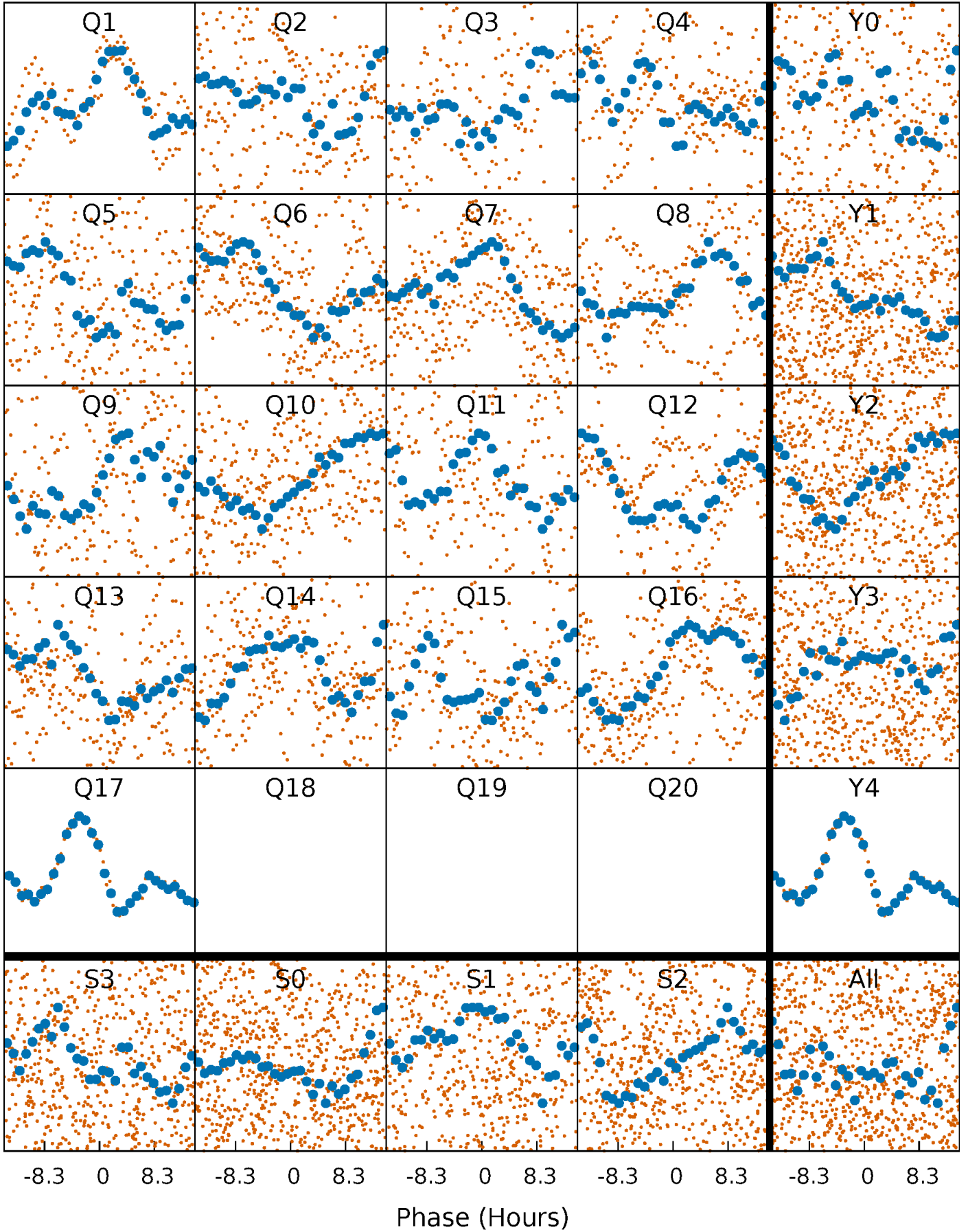


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



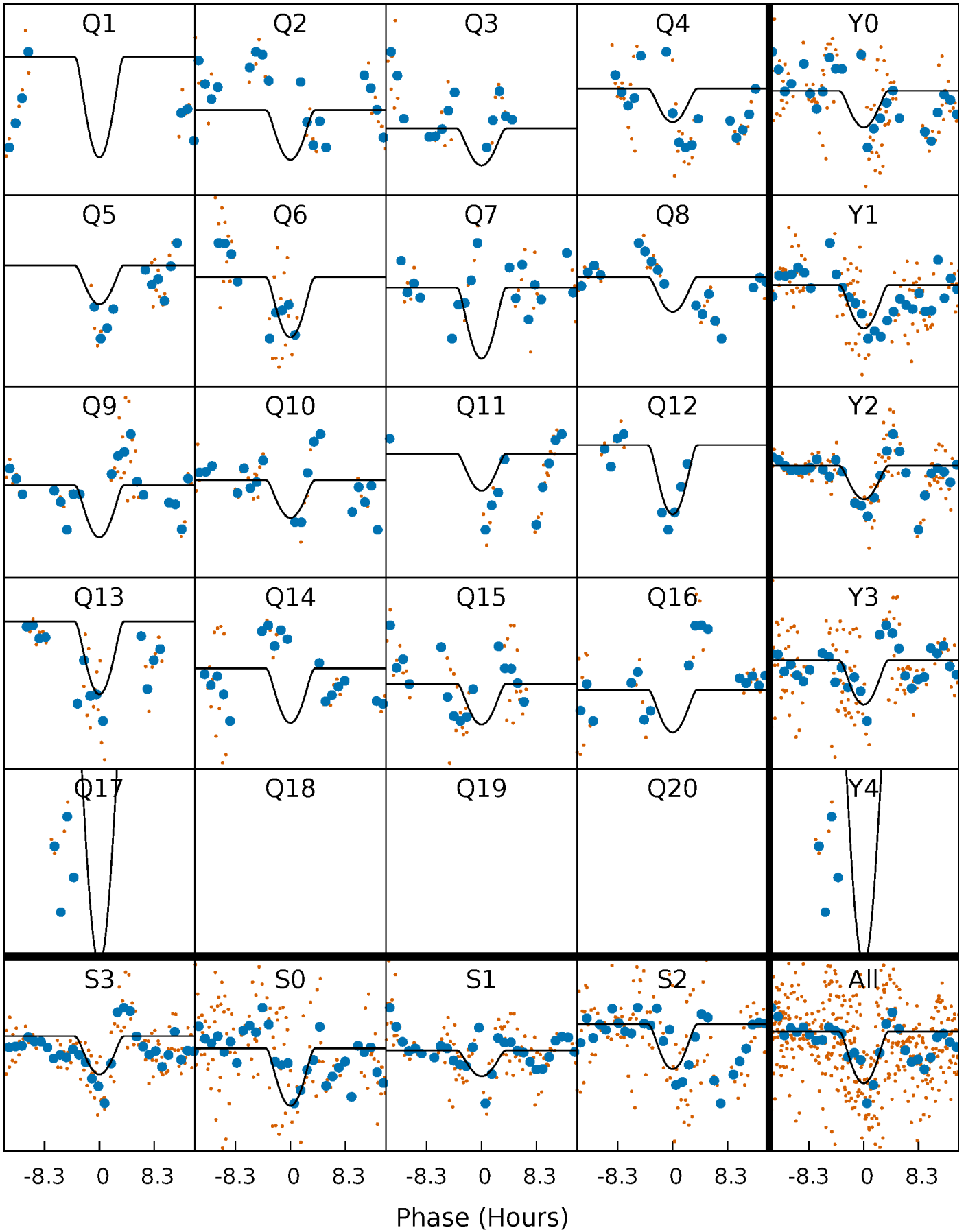
PDC Quarter-Phased Transit Curves

TCE 008260818-06 P= 15.598895 Days $T_0=134.646469$ (BKJD)



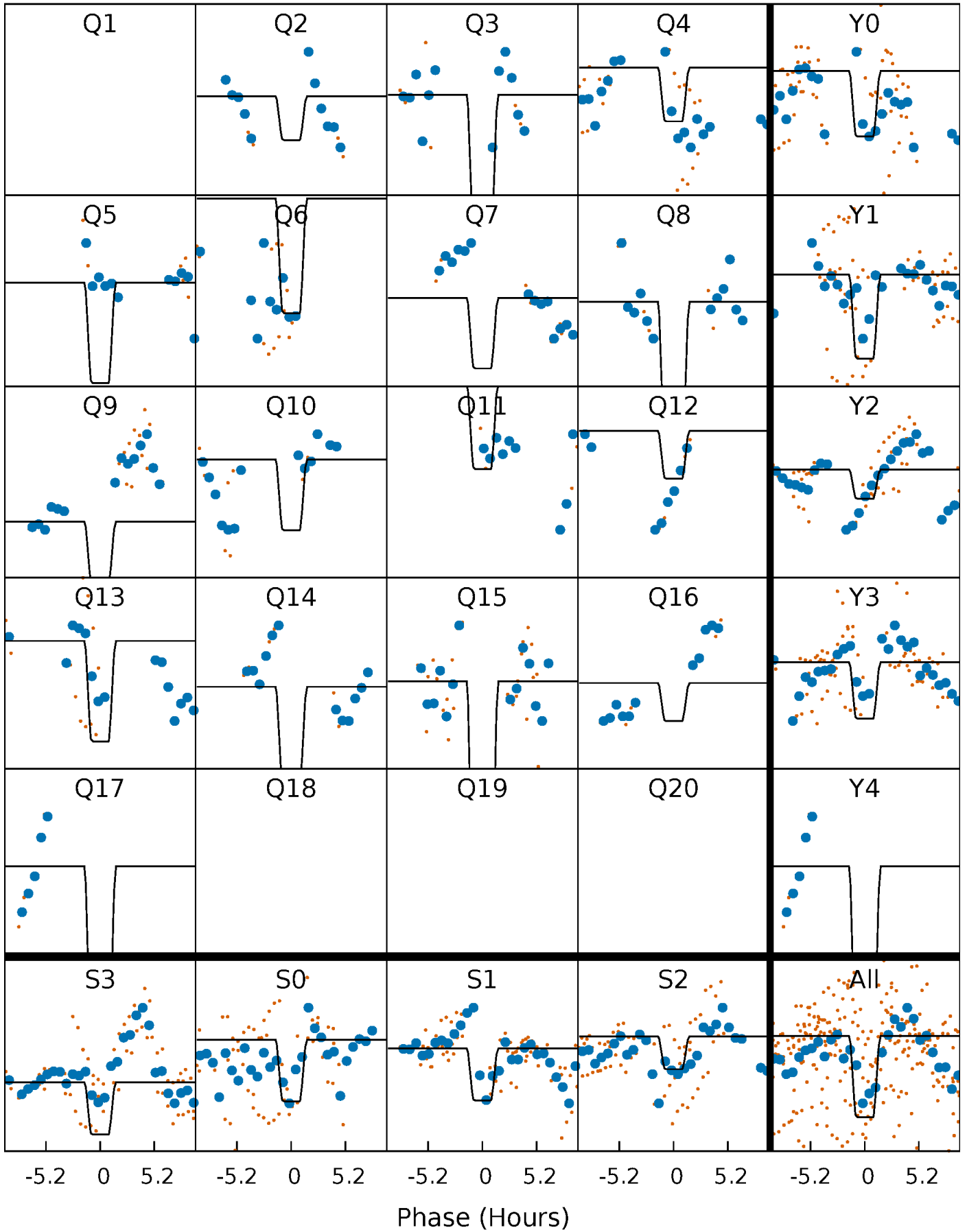
DV Quarter-Phased Transit Curves

TCE 008260818-06 P= 15.598895 Days $T_0=134.646469$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

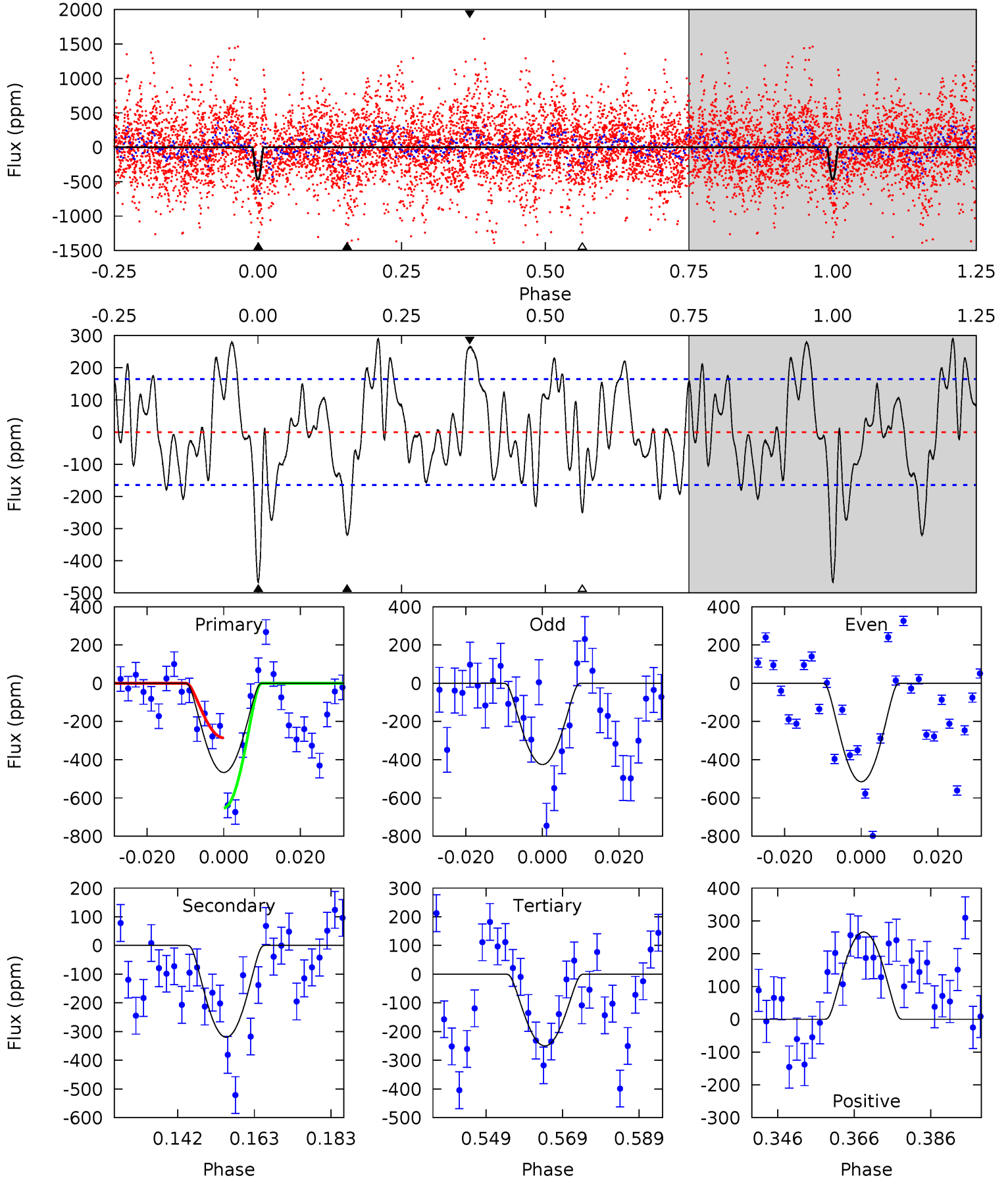
TCE 008260818-06 P= 15.598969 Days $T_0=134.662046$ (BKJD)



DV Model-Shift Uniqueness Test

008260818-06, $P = 15.598895$ Days, $E = 119.047574$ Days

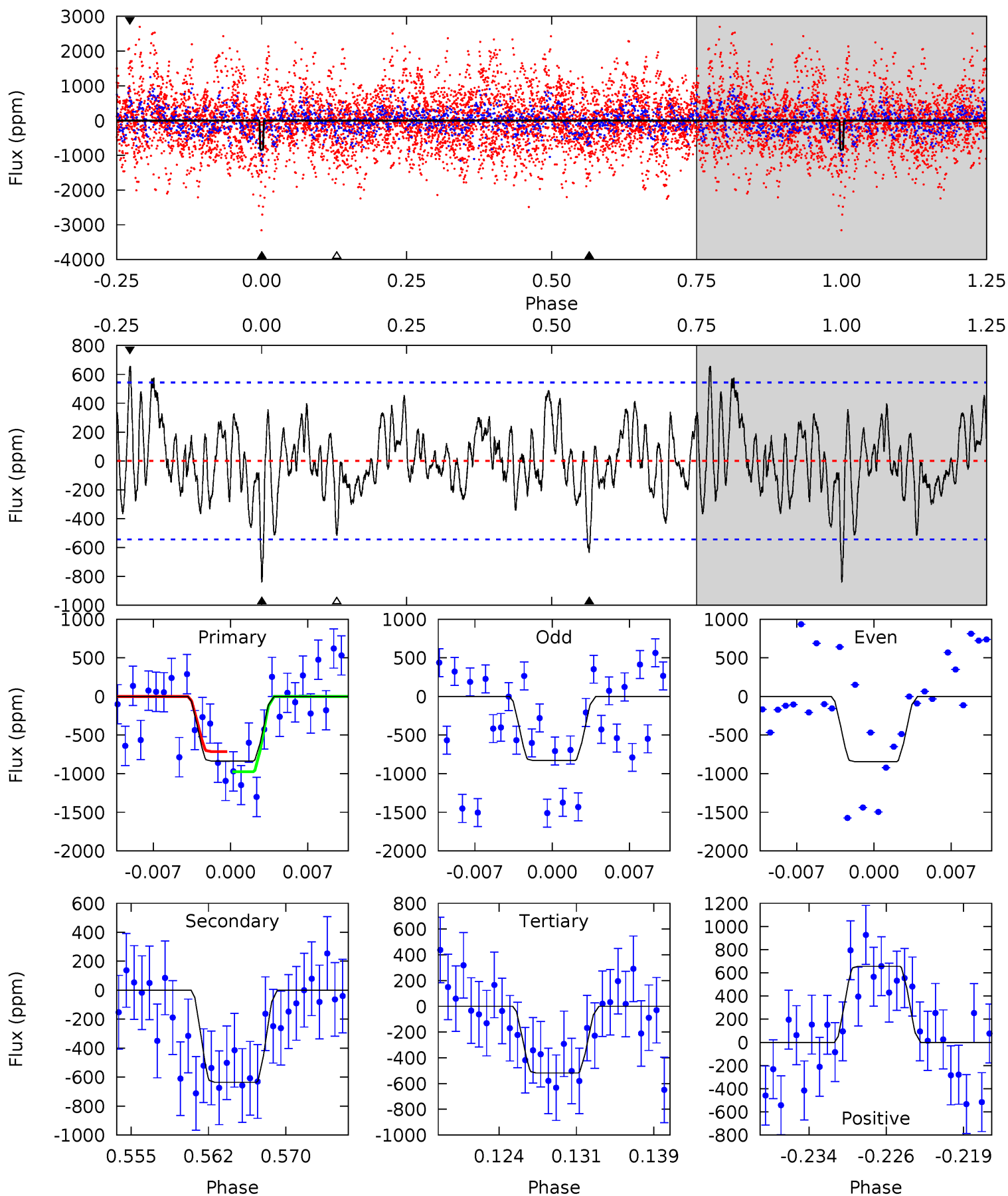
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.9	9.50	7.43	7.90	4.89	2.32	3.57	6.44	5.97	2.07	1.60	1.33	-0.13	0.38	5.46



Alt Model-Shift Uniqueness Test

008260818-06, P = 15.598969 Days, E = 119.063077 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.83	5.95	4.85	6.14	5.09	2.68	1.85	2.98	1.69	1.10	-0.19	0.07	0.91	0.44	1.22



Stellar Parameters For KIC 008260818

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7014^{+197}_{-296}	$4.188^{+0.128}_{-0.208}$	$-0.120^{+0.250}_{-0.350}$	$1.578^{+0.535}_{-0.288}$	$1.408^{+0.220}_{-0.242}$	$0.504^{+0.321}_{-0.265}$
	+3%/-4%	+3%/-5%	+208%/-292%	+34%/-18%	+16%/-17%	+64%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008260818-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-320 ± 34	$17.18^{+16.13}_{-12.36}$	1475^{+130}_{-97}	3462^{+2115}_{-632}	12^{+128}_{-9}
Alt.	-635 ± 107	$14.96^{+16.05}_{-10.24}$	1478^{+118}_{-96}	4035^{+2719}_{-836}	28^{+255}_{-22}

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 $A_{obs} \gg 1.0$

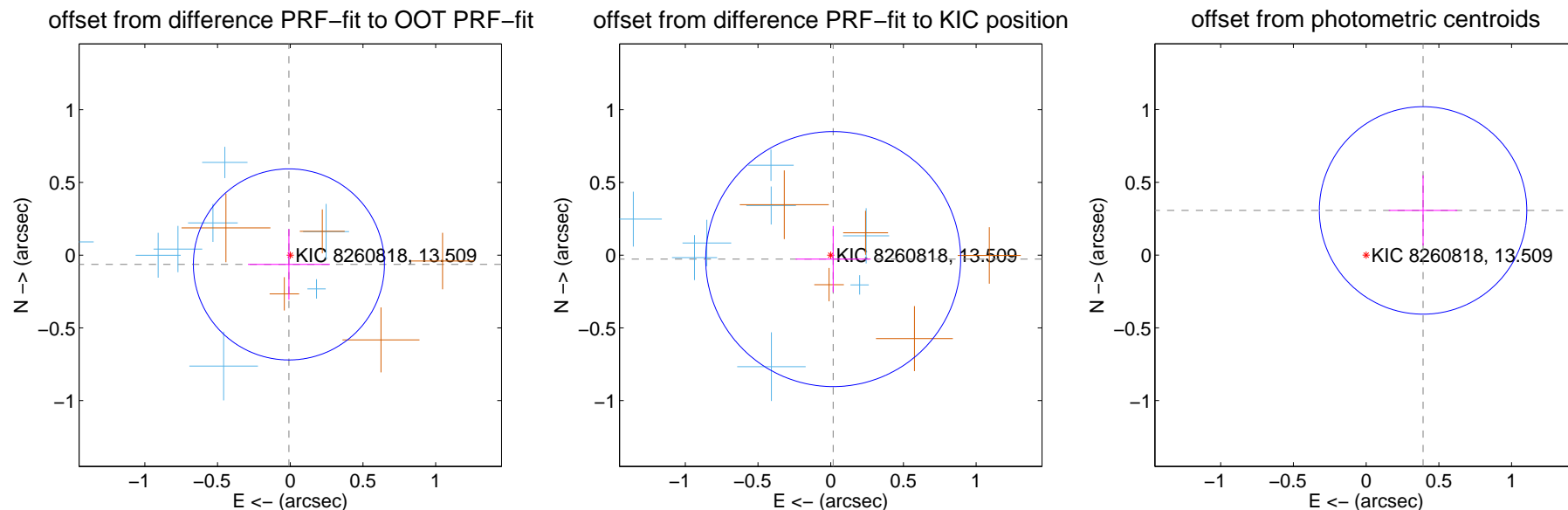
DV Centroid Data

Supplemental centroid analysis for 008260818-06. Kepler magnitude: 13.51. Transit SNR 8.29

There are 9 quarters with good PRF difference image offsets

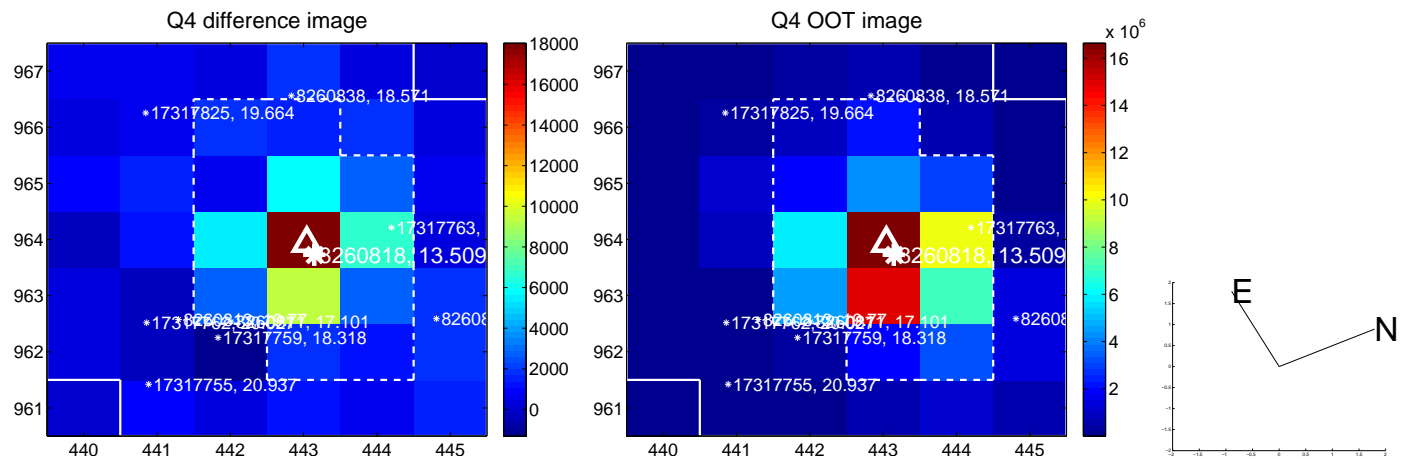
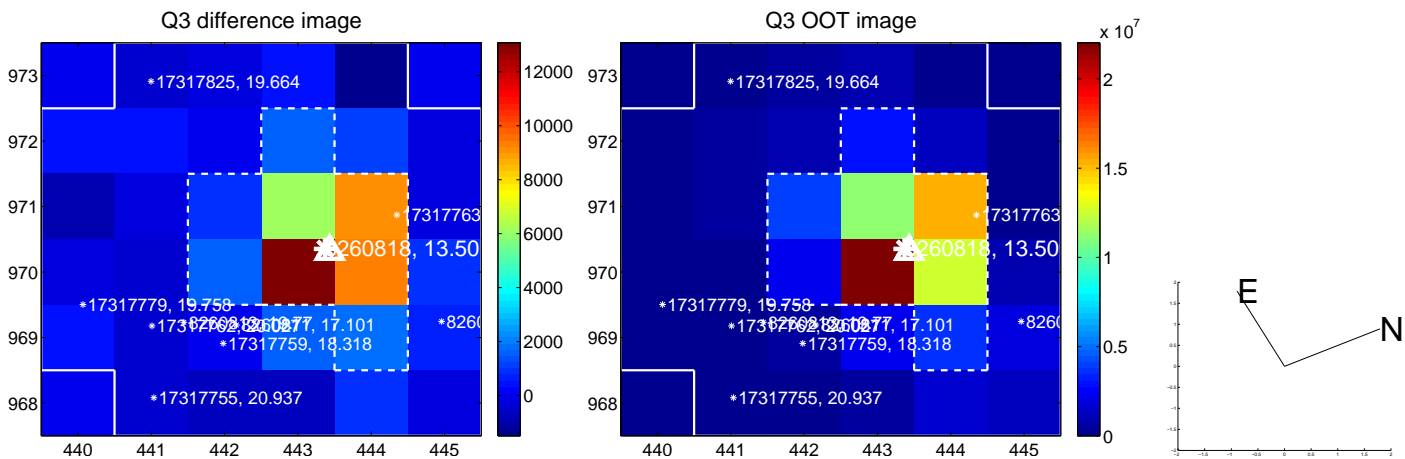
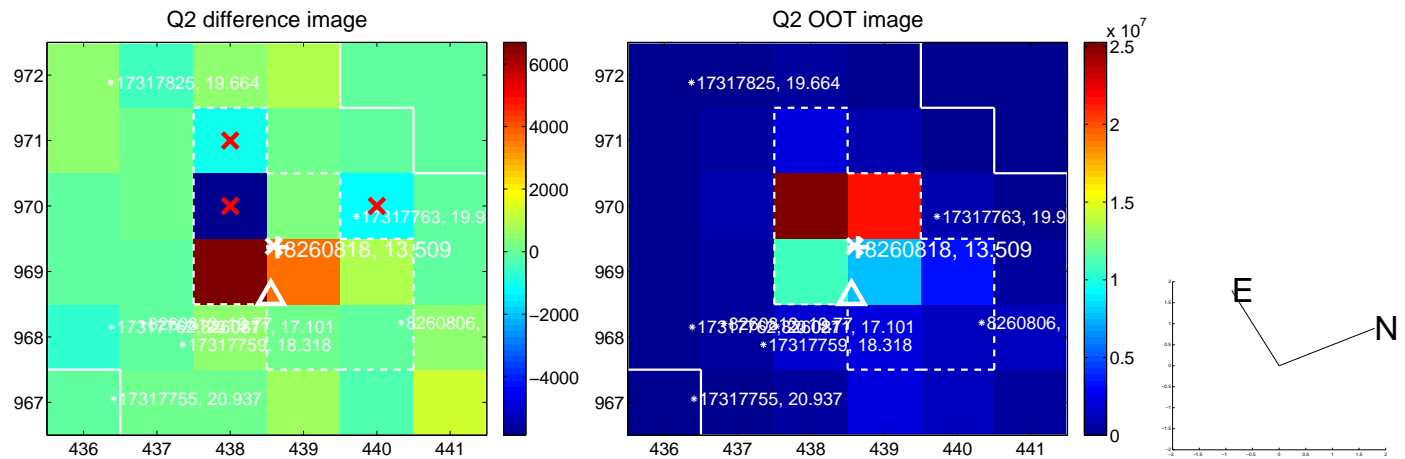
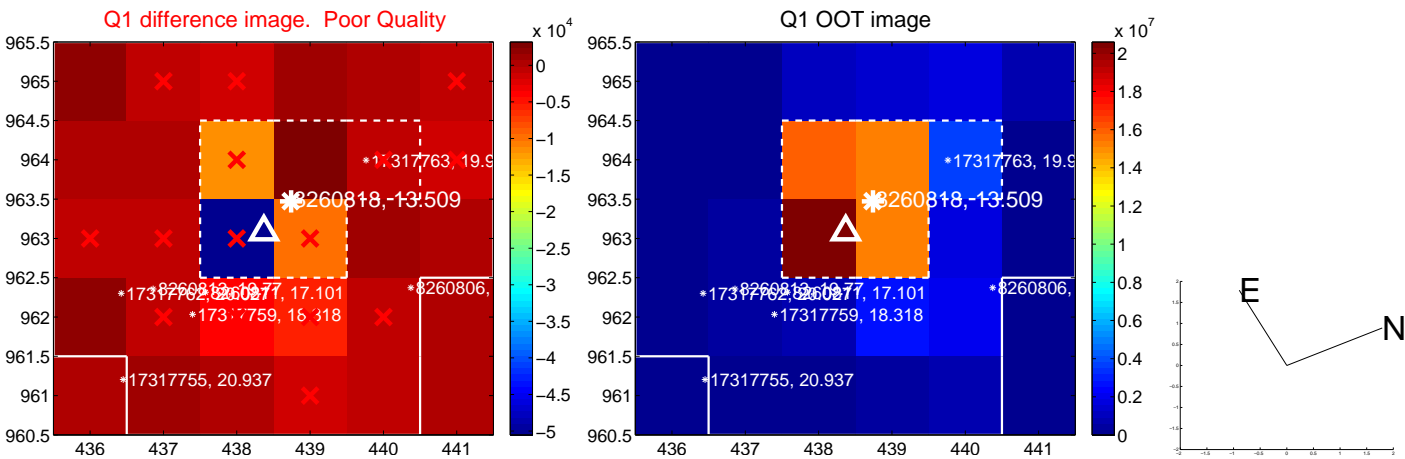
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.064 ± 0.219	0.29	0.009 ± 0.282	-0.064 ± 0.243
PRF-fit source offset from KIC position	0.032 ± 0.292	0.11	-0.017 ± 0.258	-0.027 ± 0.228
photometric centroid source offset	0.50 ± 0.24	2.09	-0.39 ± 0.24	0.31 ± 0.24

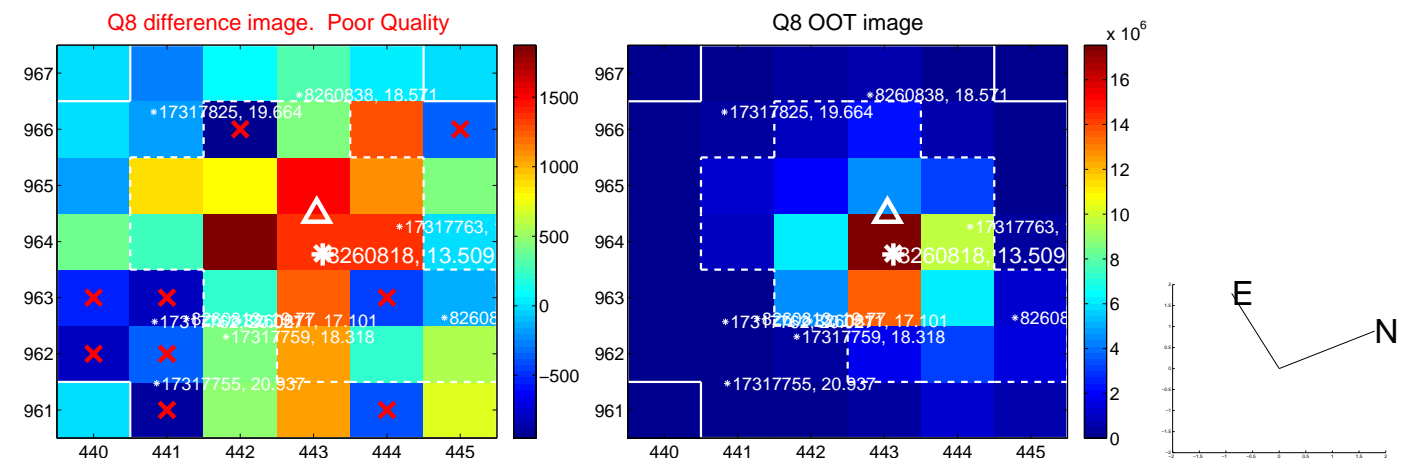
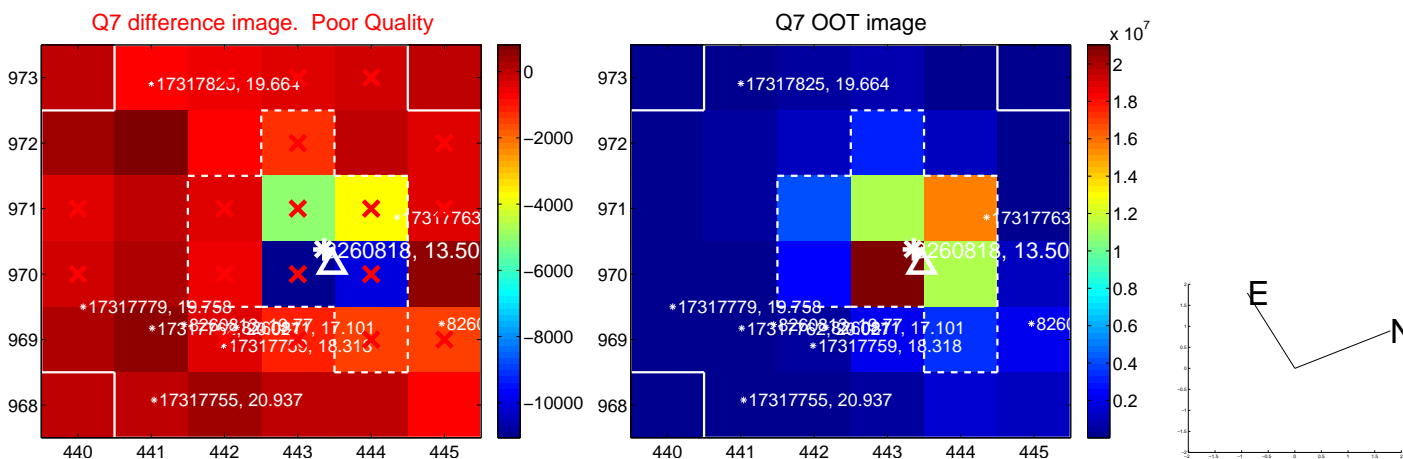
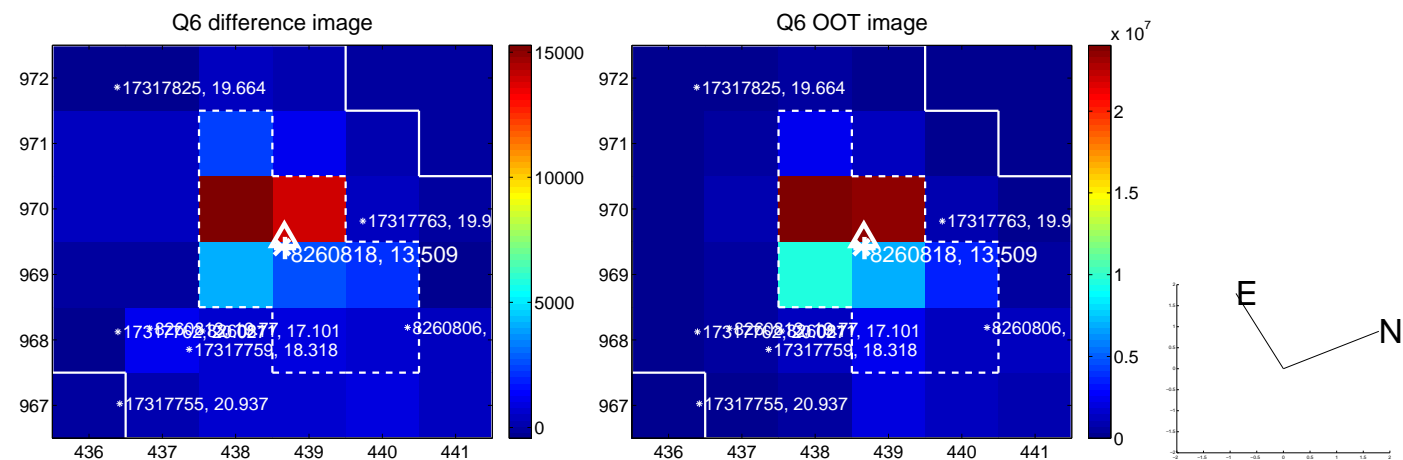
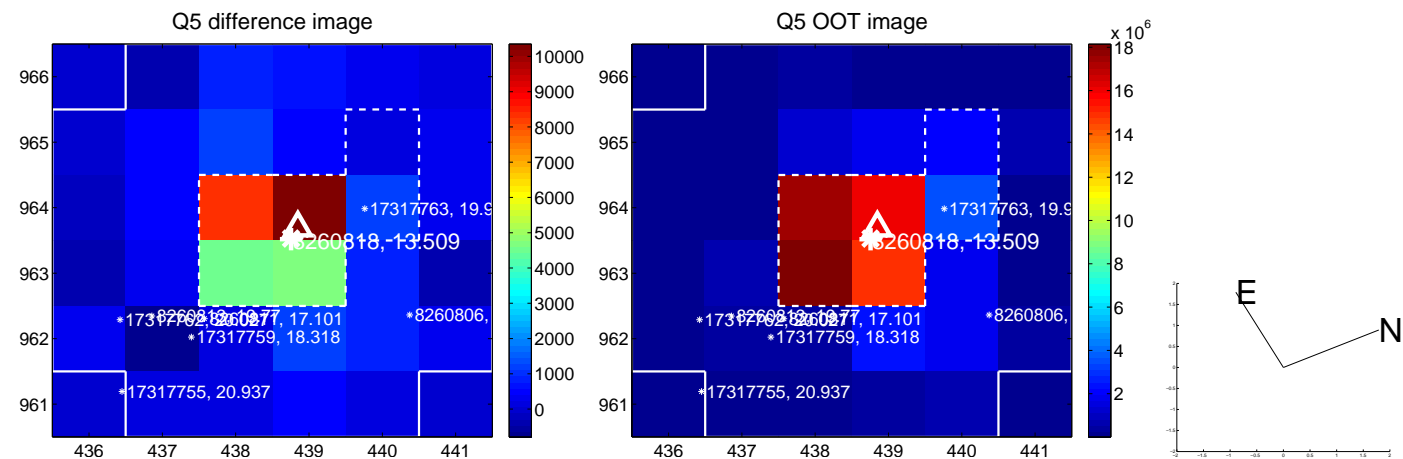


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

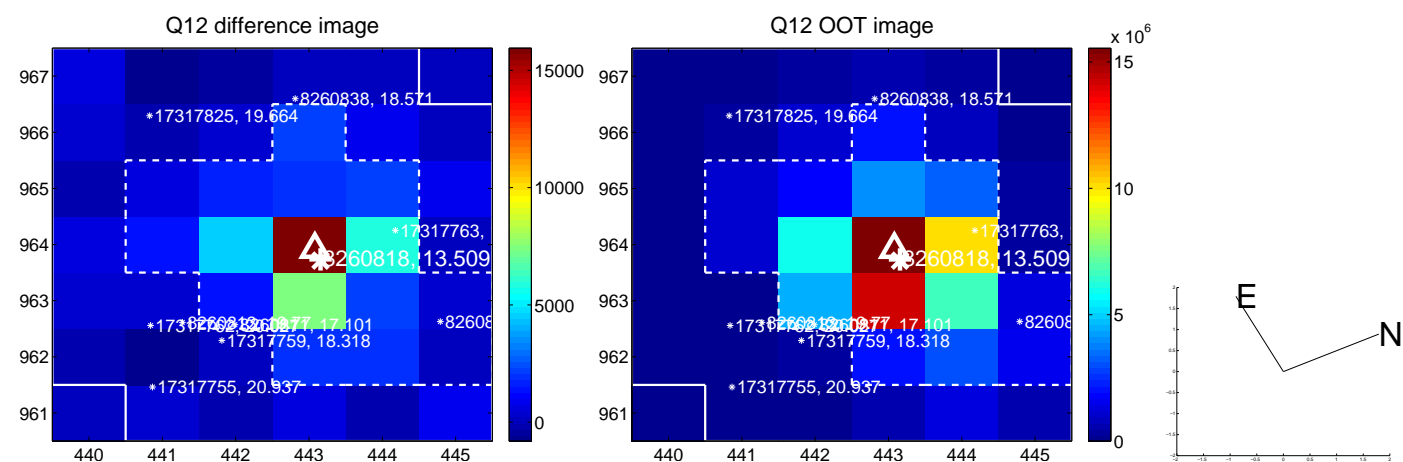
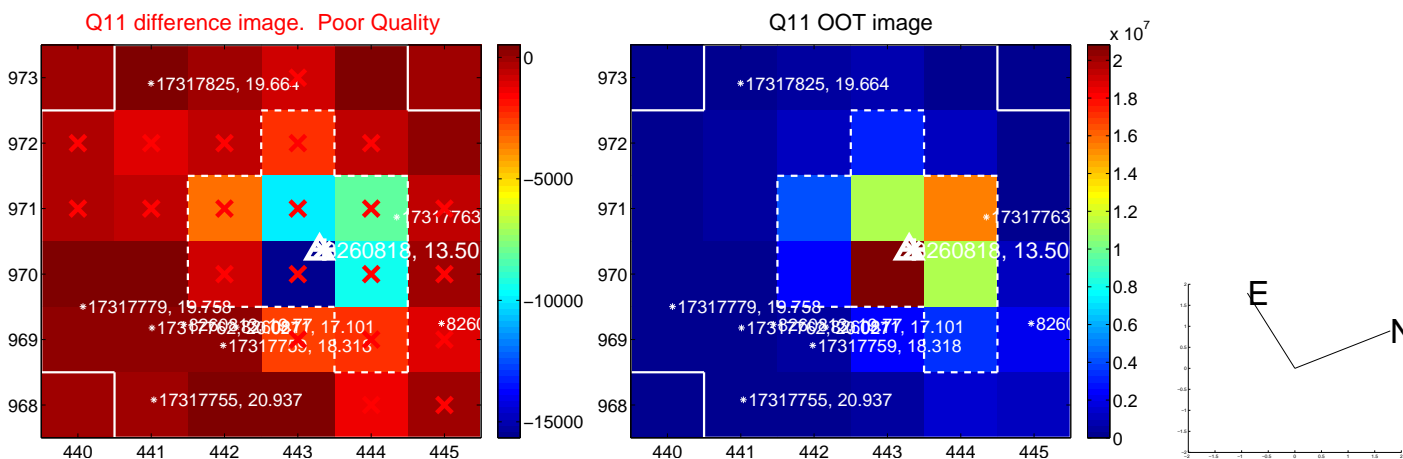
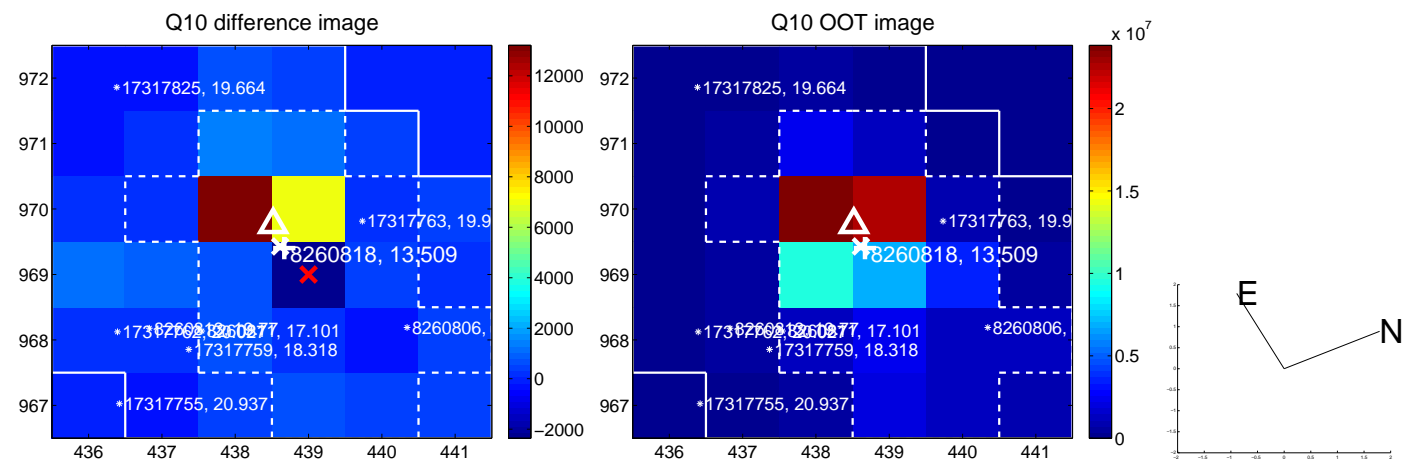
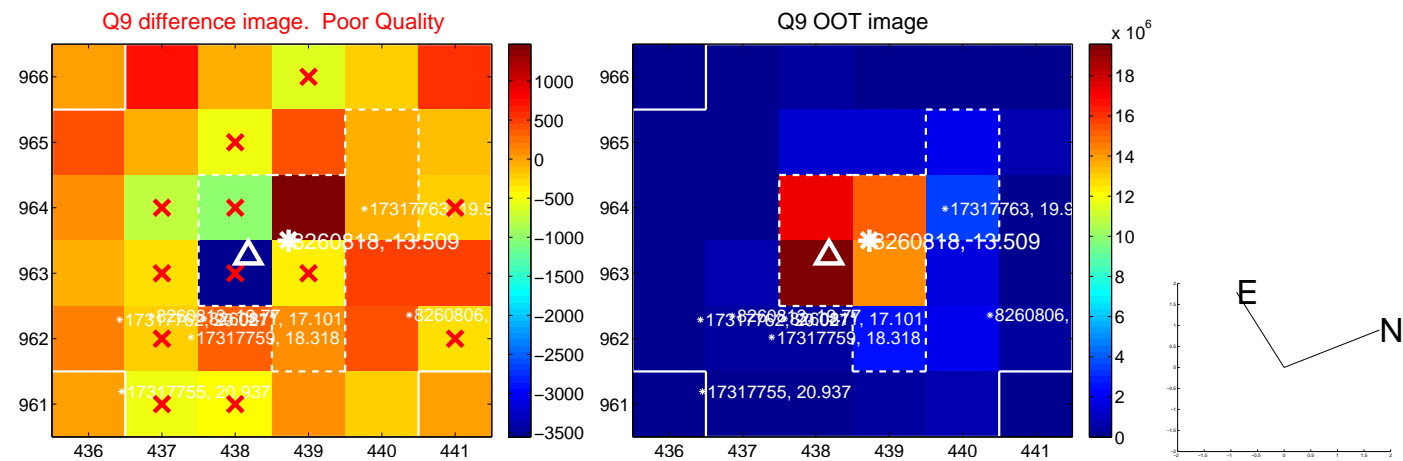
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



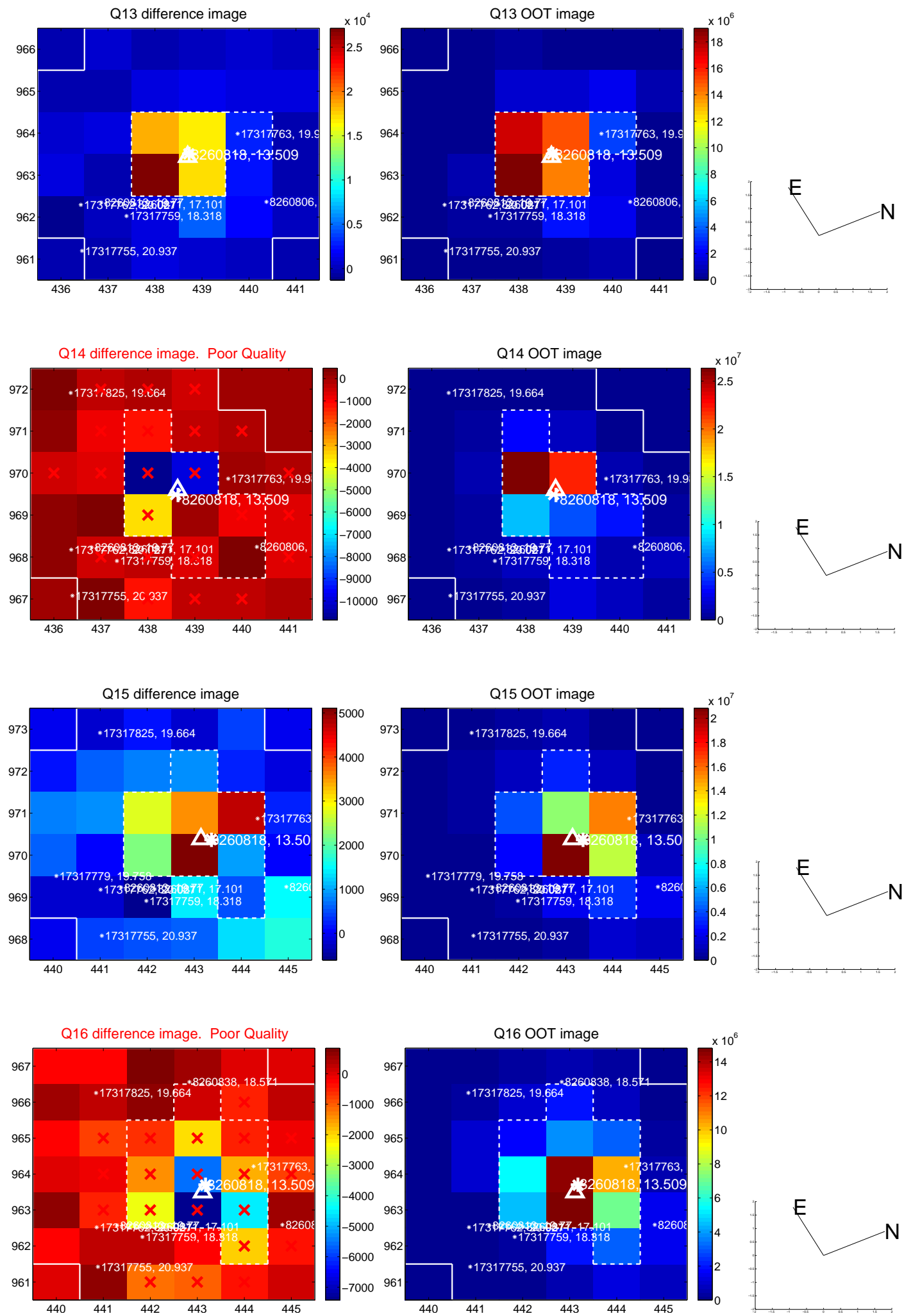
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



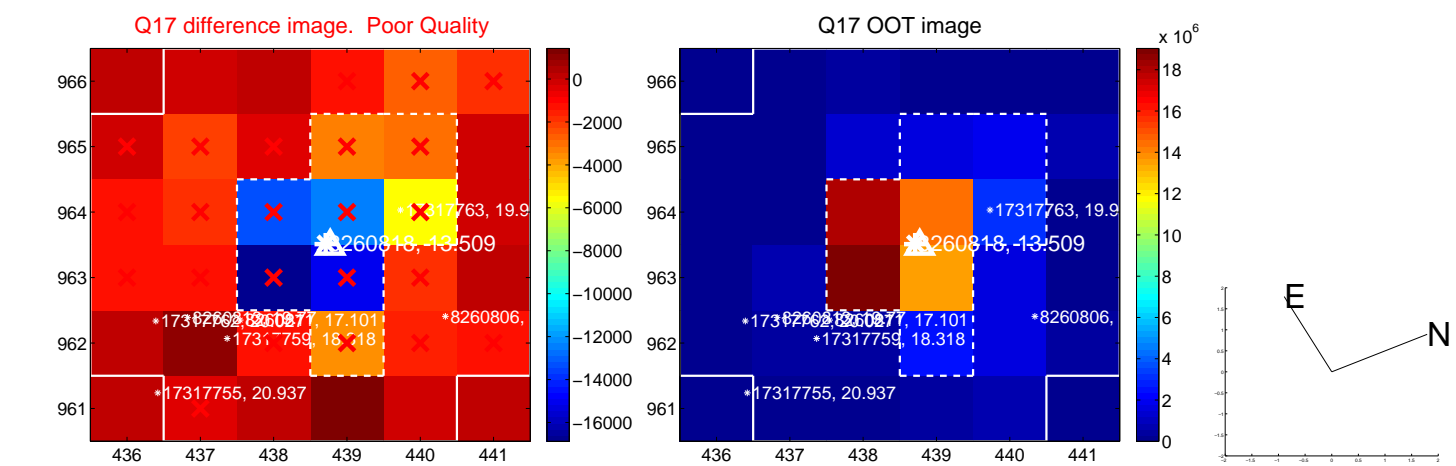
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



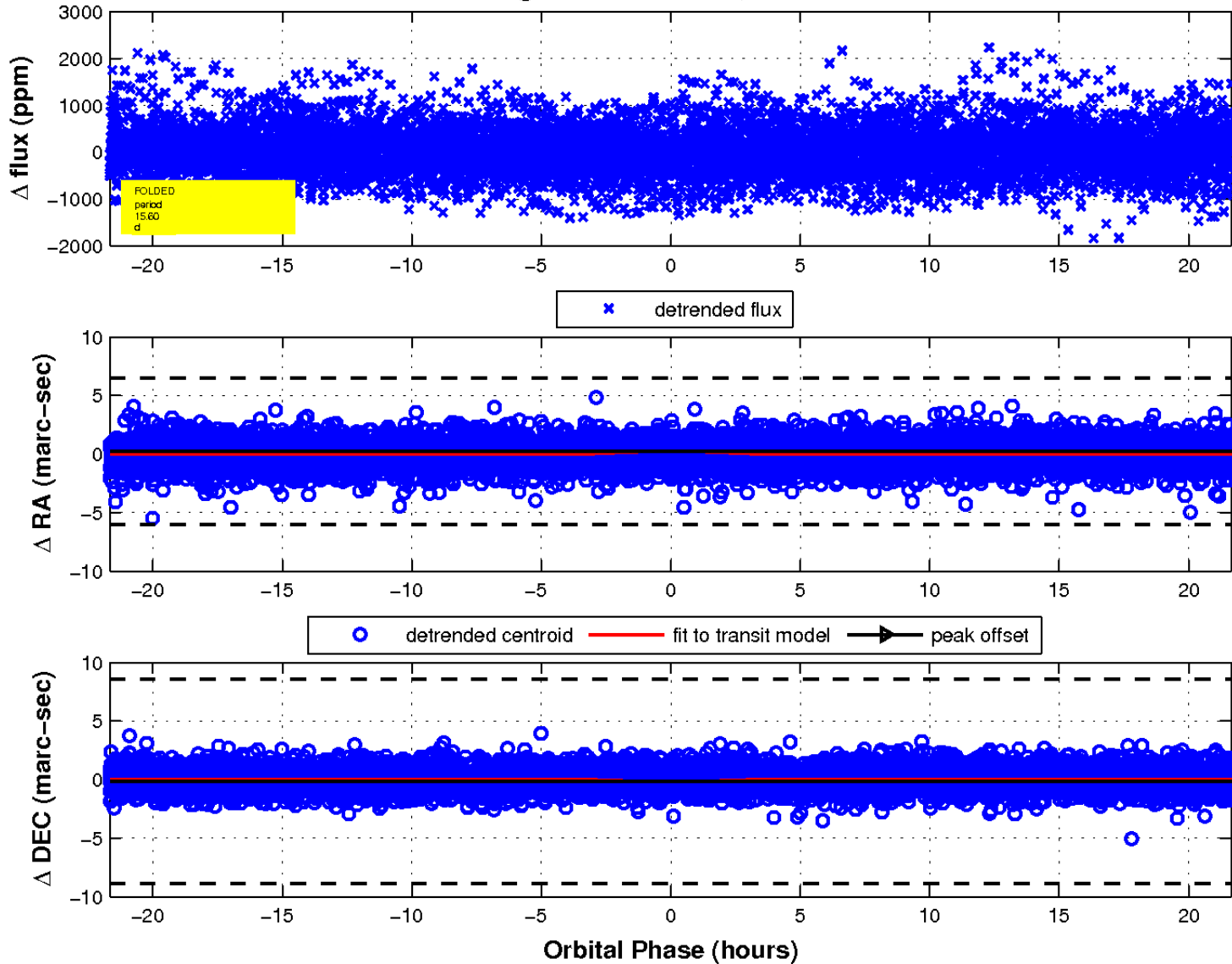
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 6 of 7



UKIRT Image

Declination

