

KIC 007041634

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})
007041634-01	OBS	No	1.306749	131.712012	0.1	2.699	9.6	0.0	1.79	6735	0.05	8021.09
007041634-02	OBS	No	1.306827	131.761064	190.5	2.451	9.7	5.9	1.79	6735	2.49	8020.45
007041634-03	OBS	No	1.306909	131.973511	32.5	3.250	9.4	10.8	1.79	6735	1.18	8019.78

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007041634-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007041634-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
007041634-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD

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.

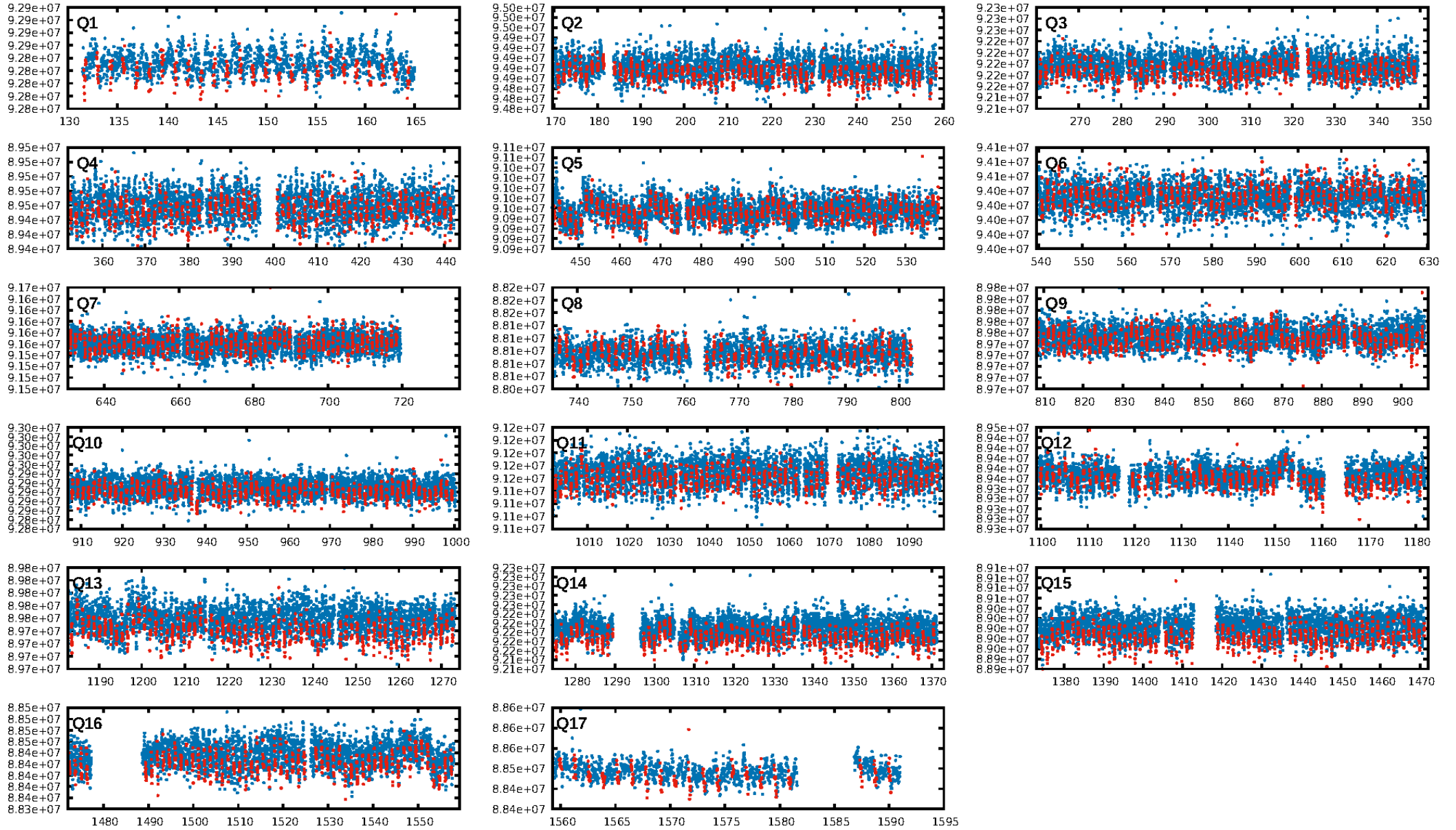
Ephemeris Match Information For 007041634-01

No Significant Match Found

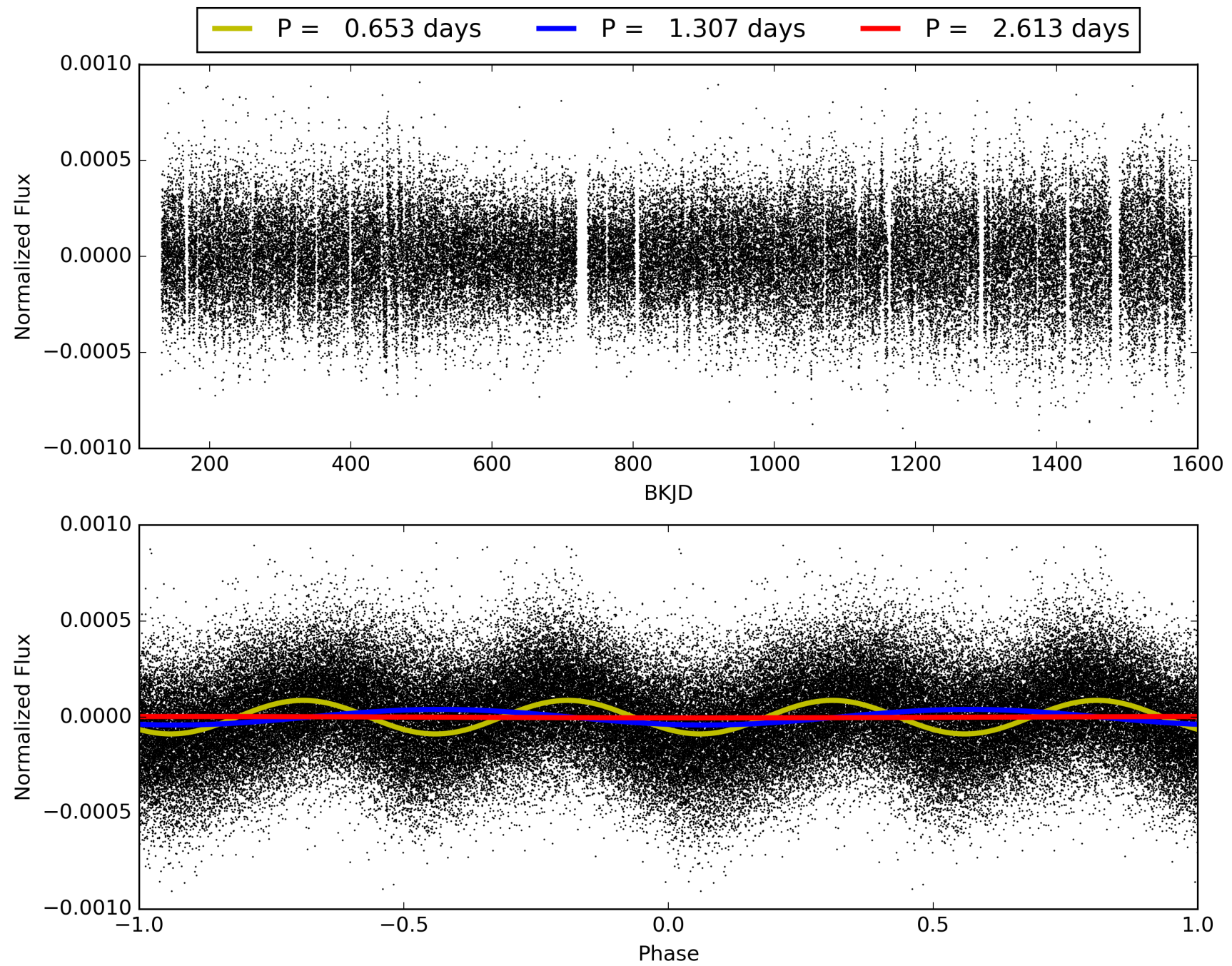
KIC: 7041634 Candidate: 1 of 3 Period: 1.307 d



TCE 007041634-01, PDC Light Curves

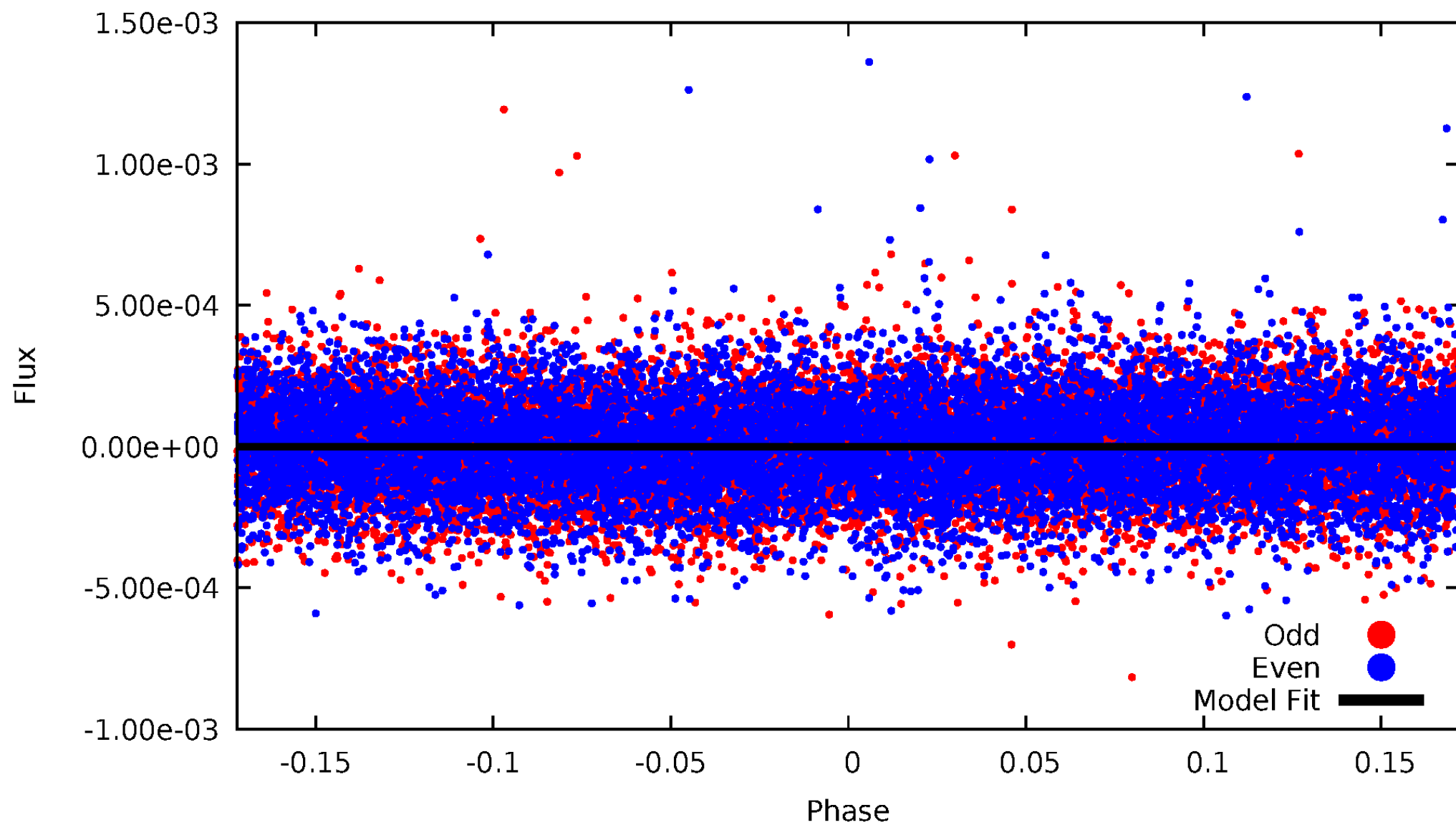


TCE 007041634-01



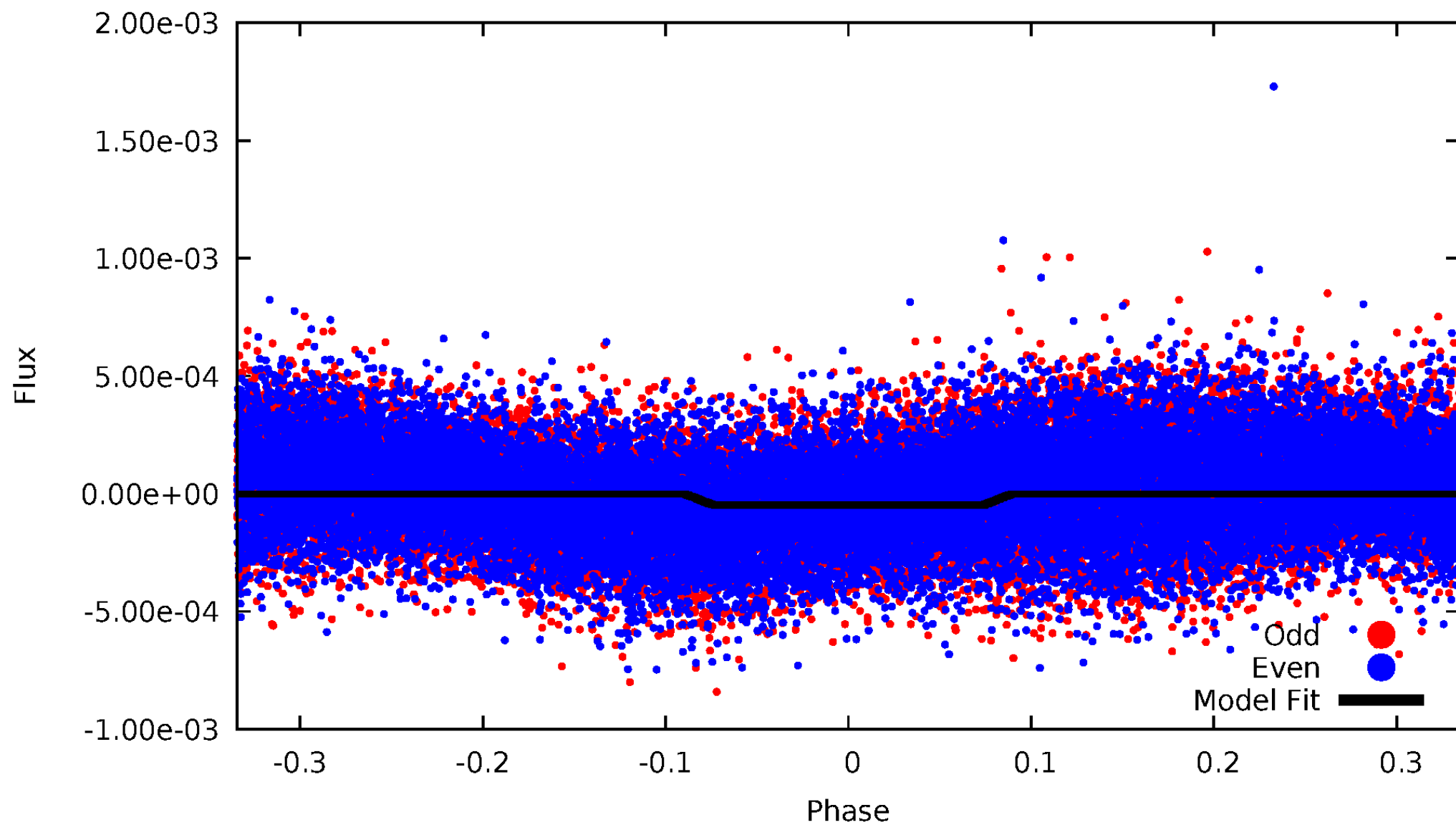
DV Odd/Even

TCE 007041634-01

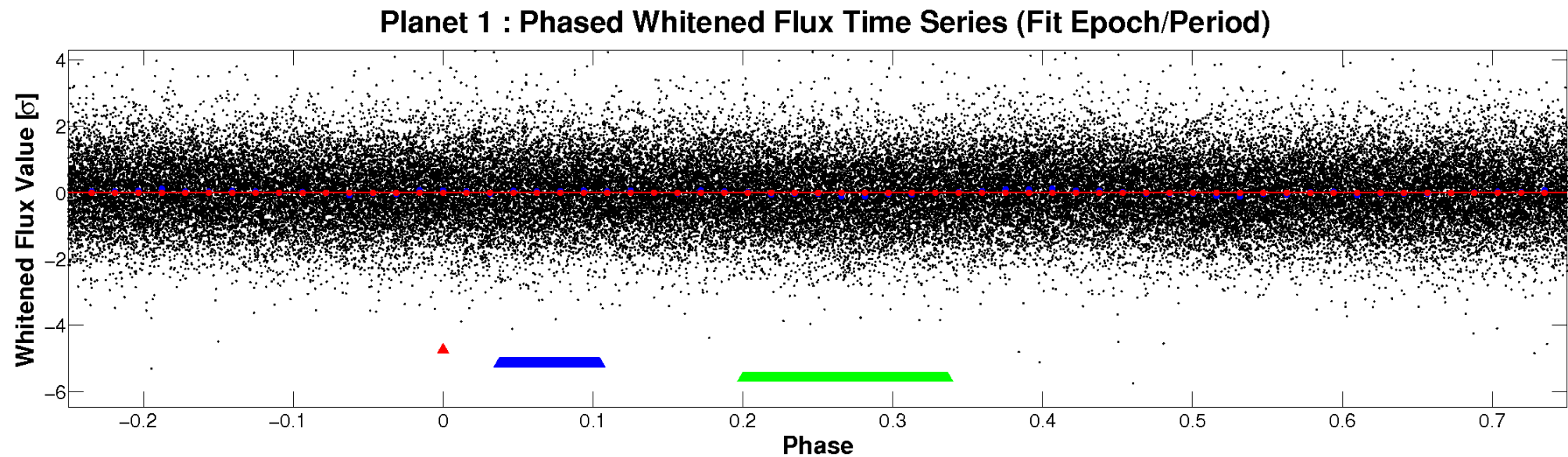
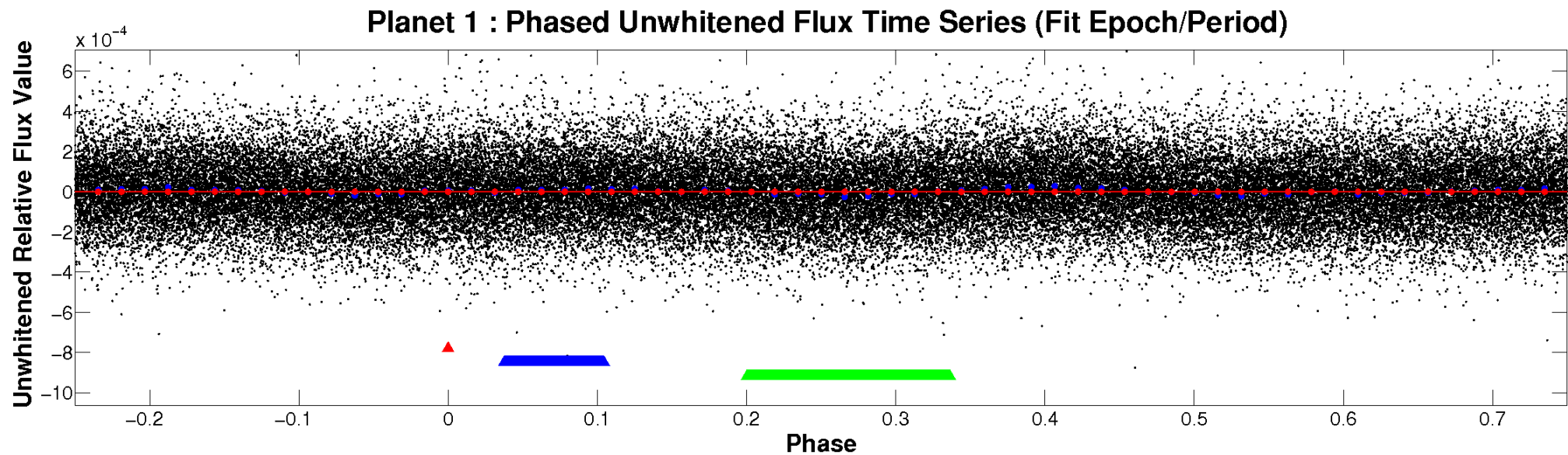


ALT Odd/Even

TCE 007041634-01

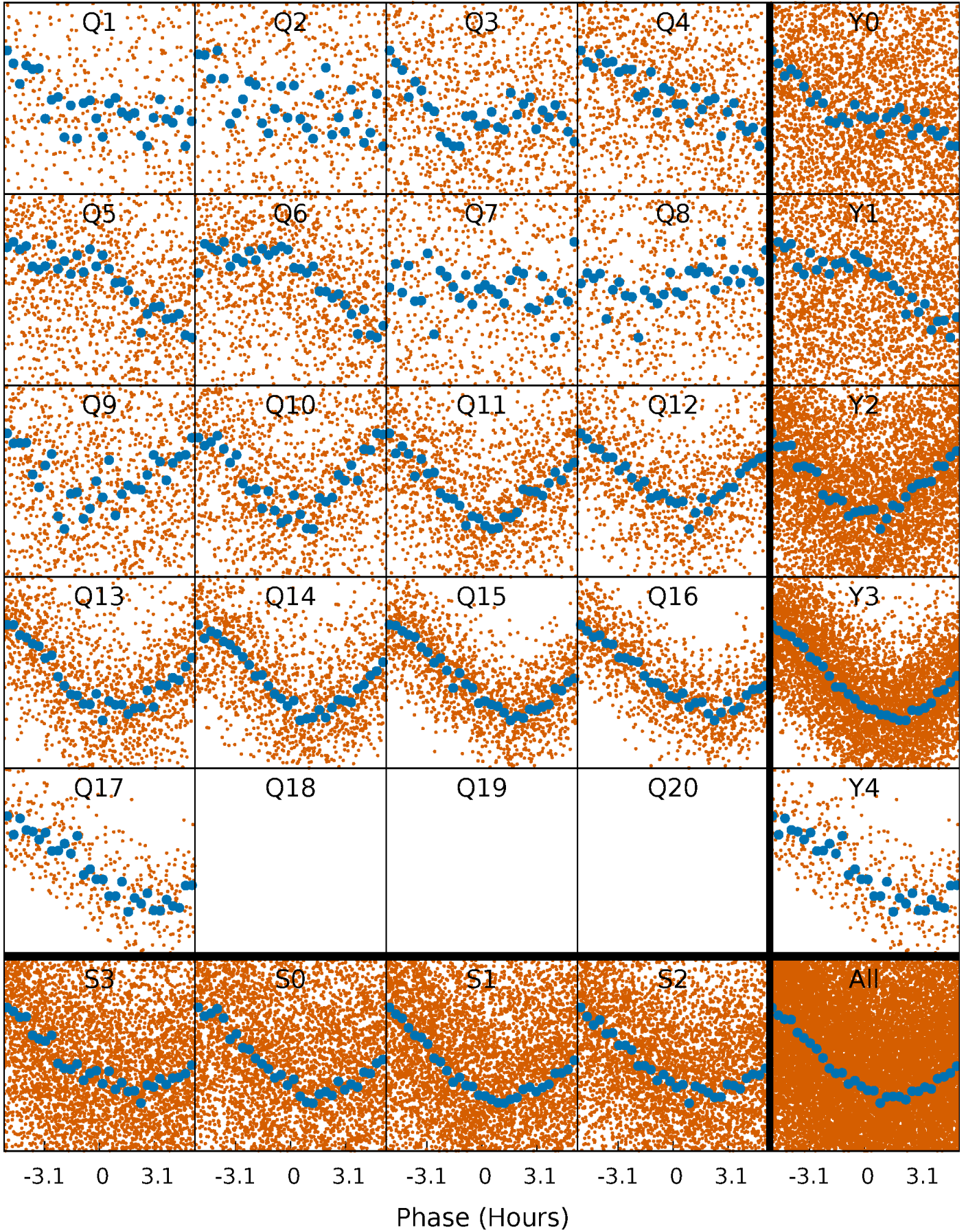


Non-Whitened Vs. Whitened Light Curve



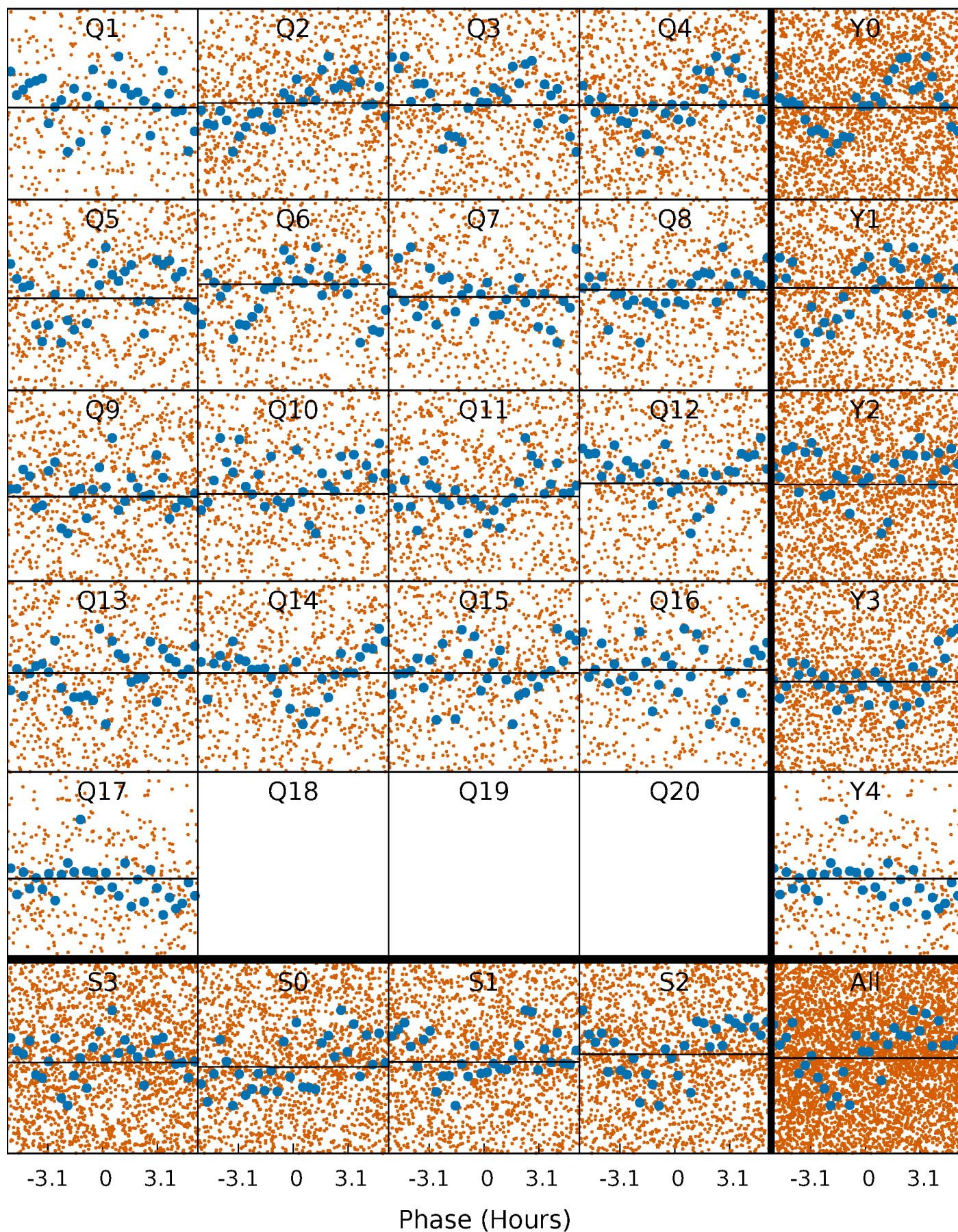
PDC Quarter-Phased Transit Curves

TCE 007041634-01 P= 1.306749 Days $T_0=131.712012$ (BKJD)



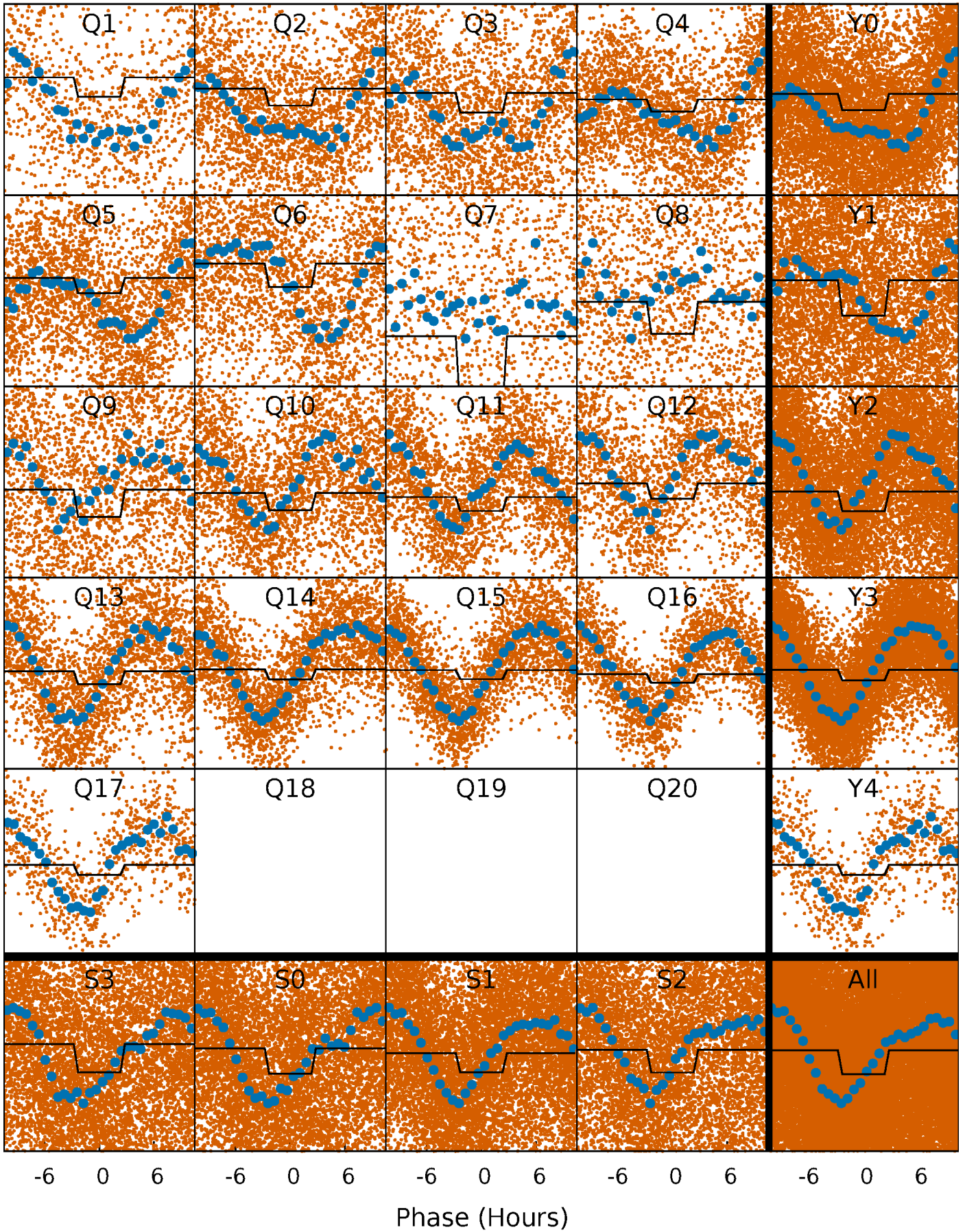
DV Quarter-Phased Transit Curves

TCE 007041634-01 P= 1.306749 Days $T_0=131.712012$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

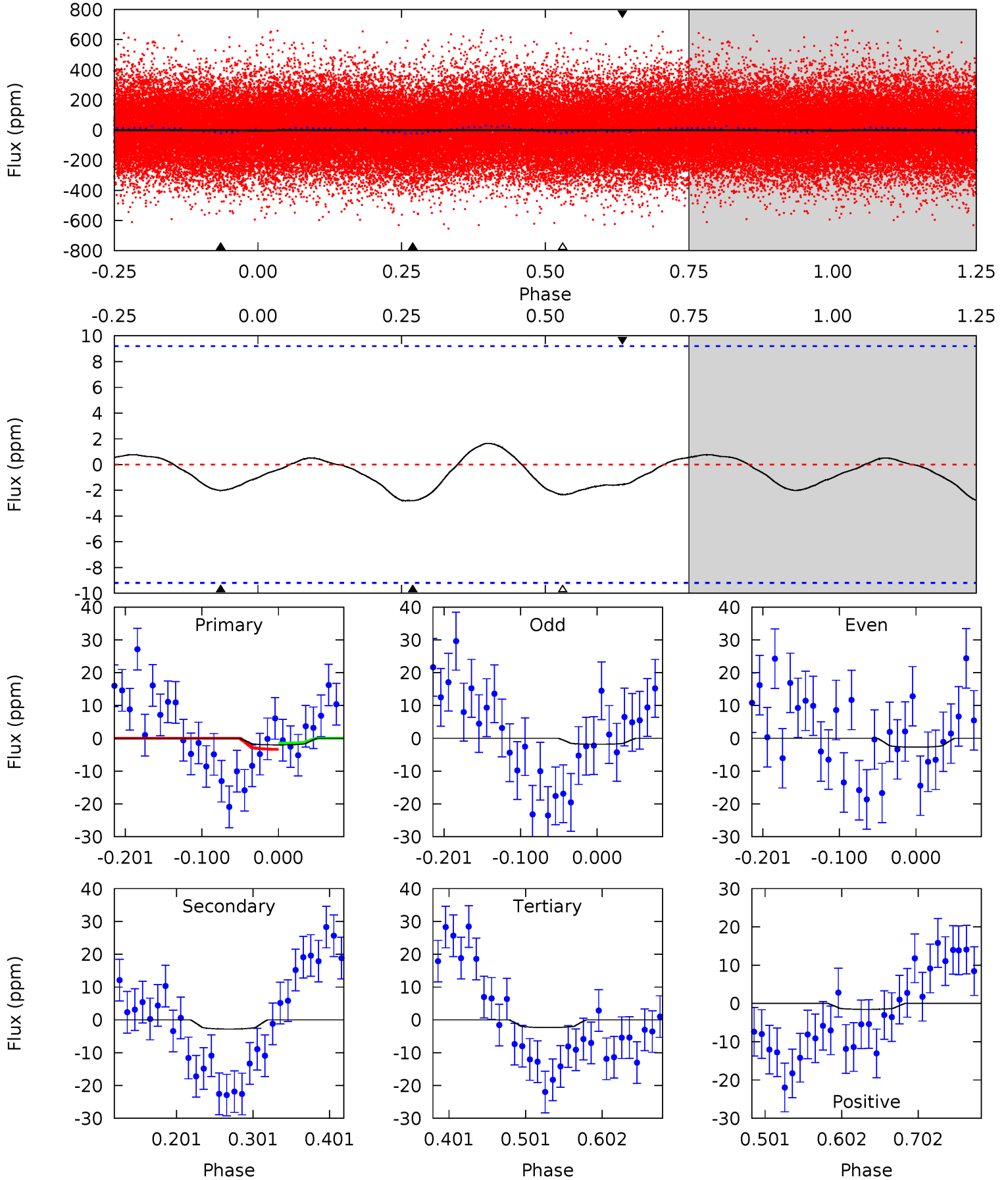
TCE 007041634-01 P= 1.306904 Days $T_0=131.743042$ (BKJD)



DV Model-Shift Uniqueness Test

007041634-01, P = 1.306749 Days, E = 130.405263 Days

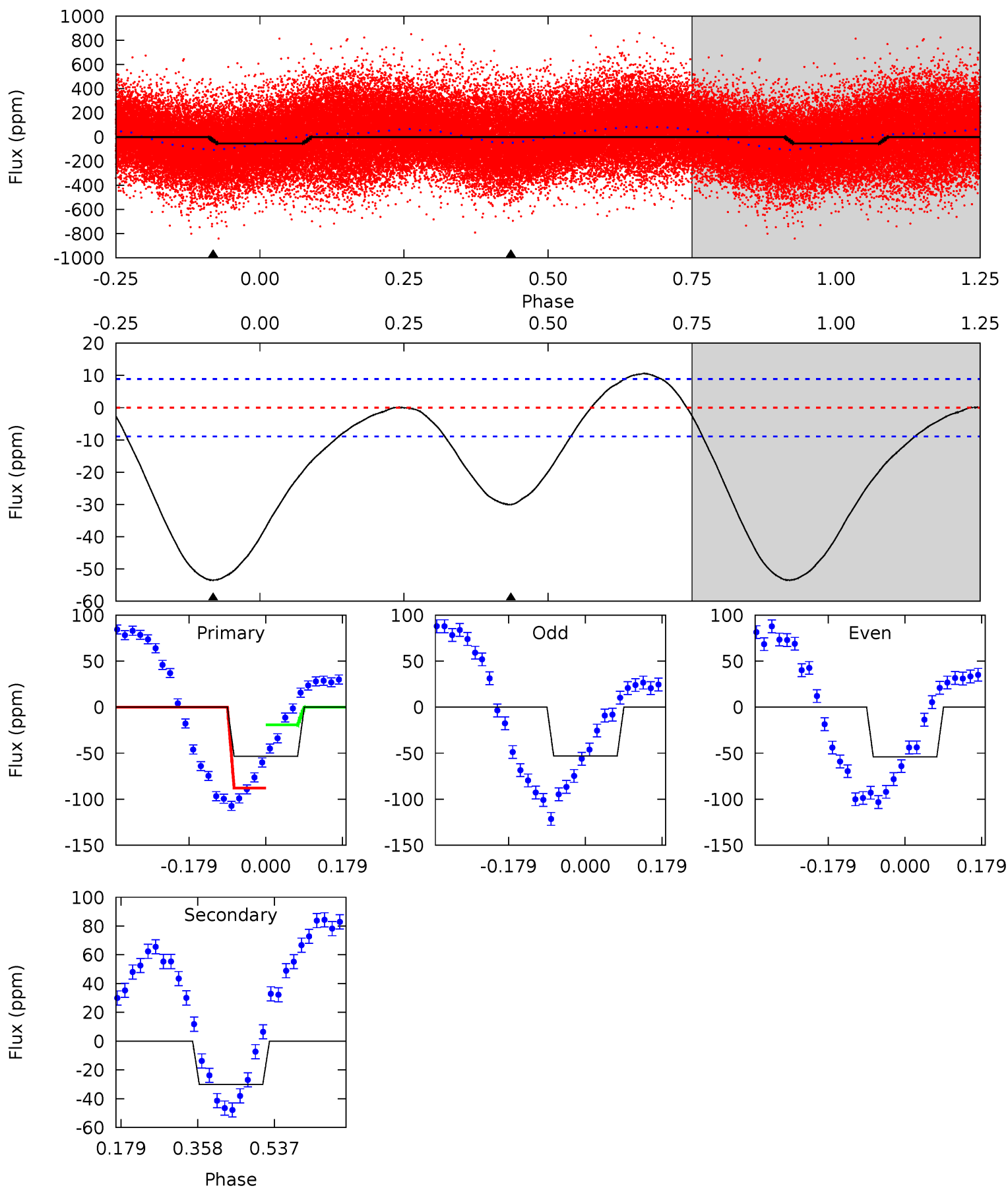
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.00	1.39	1.16	-0.77	4.56	1.64	0.56	-0.17	1.77	0.23	2.16	0.22	-1.67	0.37	0.47



Alt Model-Shift Uniqueness Test

007041634-01, P = 1.306904 Days, E = 130.436138 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.7	15.0	0	0	4.44	1.34	3.80	26.7	26.7	15.0	15.0	0.26	1.02	0.17	18.4



Stellar Parameters For KIC 007041634

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6735^{+185}_{-278}	$4.125^{+0.144}_{-0.192}$	$0.360^{+0.100}_{-0.350}$	$1.788^{+0.565}_{-0.377}$	$1.557^{+0.197}_{-0.241}$	$0.383^{+0.258}_{-0.197}$
	+3%/-4%	+3%/-5%	+28%/-97%	+32%/-21%	+13%/-15%	+67%/-51%
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 007041634-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-3 ± 2	$1.15^{+1.36}_{-0.86}$	3382^{+238}_{-240}	3355^{+3298}_{-6548}	$0.628^{+10.176}_{-0.549}$
Alt.	-30 ± 2	$1.80^{+1.45}_{-1.18}$	3382^{+253}_{-249}	5144^{+3853}_{-1268}	$3.712^{+24.794}_{-2.603}$

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 $A_{obs} \gg 1.0$

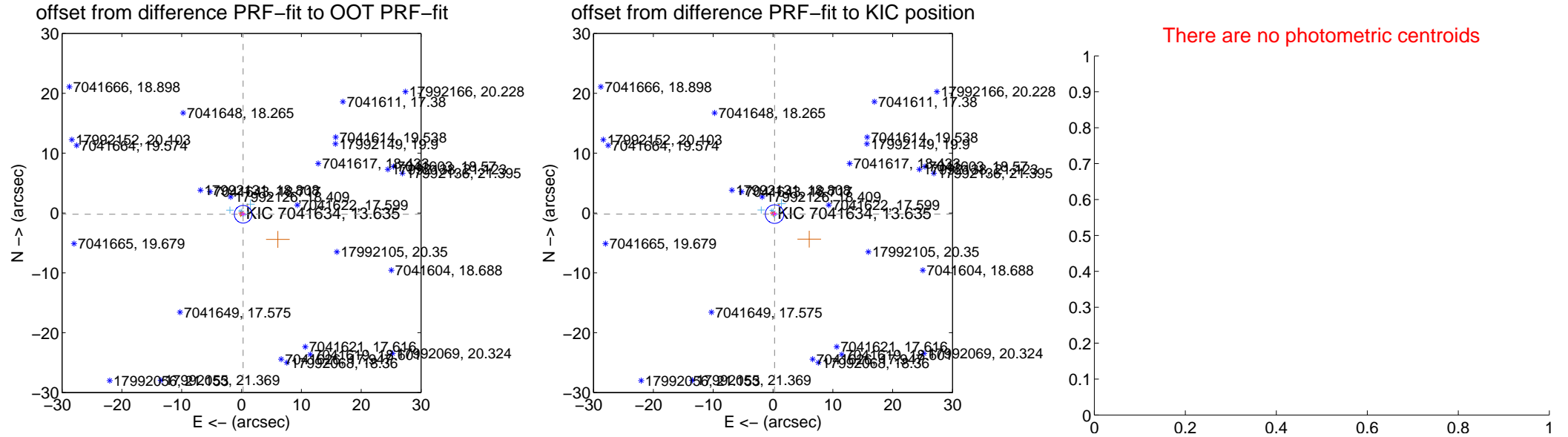
DV Centroid Data

Supplemental centroid analysis for 007041634-01. Kepler magnitude: 13.63. Transit SNR 0.02

There are 12 quarters with good PRF difference image offsets

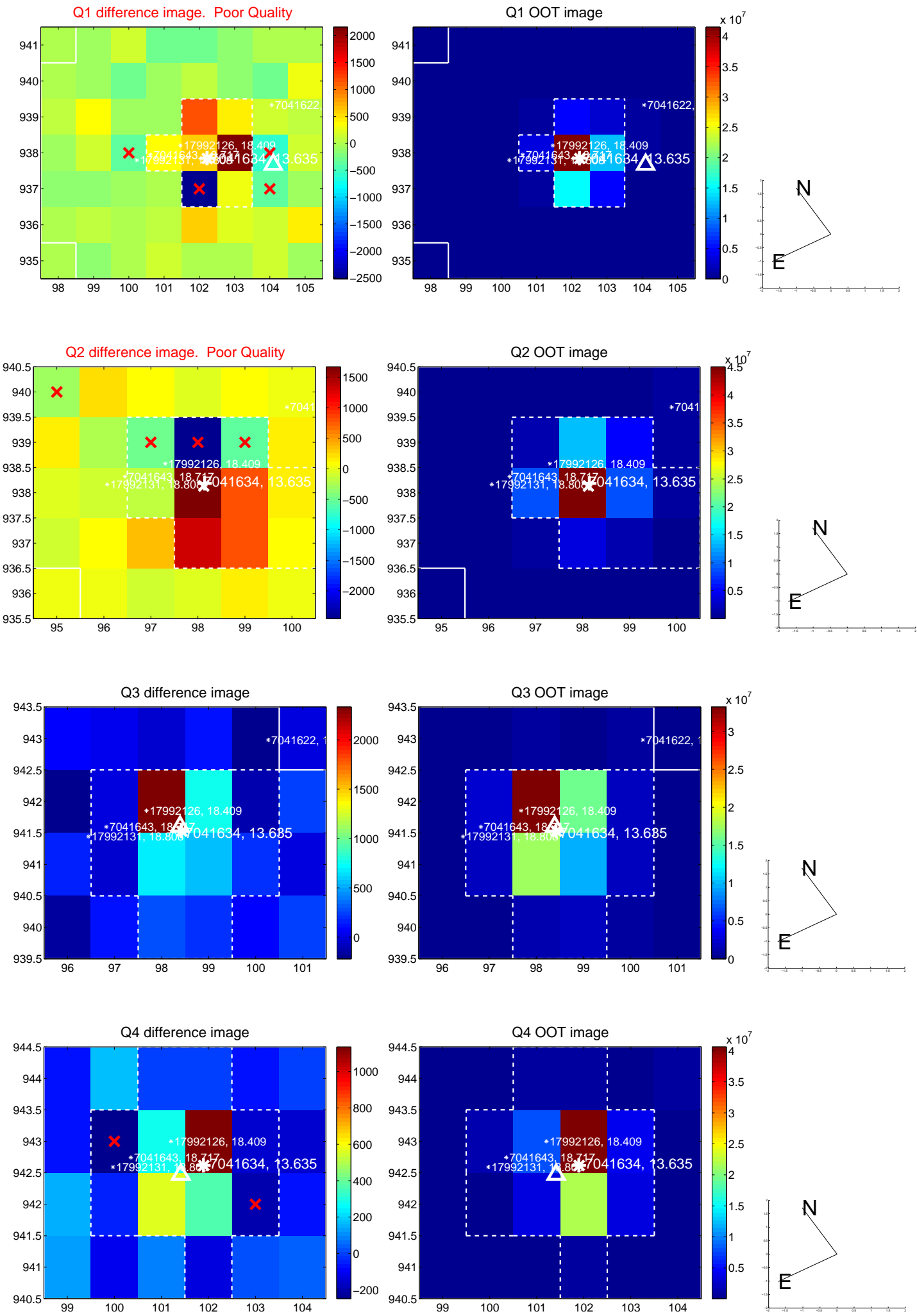
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.337 ± 0.492	0.69	-0.269 ± 0.421	-0.204 ± 0.318
PRF-fit source offset from KIC position	0.319 ± 0.517	0.62	-0.261 ± 0.433	-0.183 ± 0.345
photometric centroid source offset	—	—	—	—

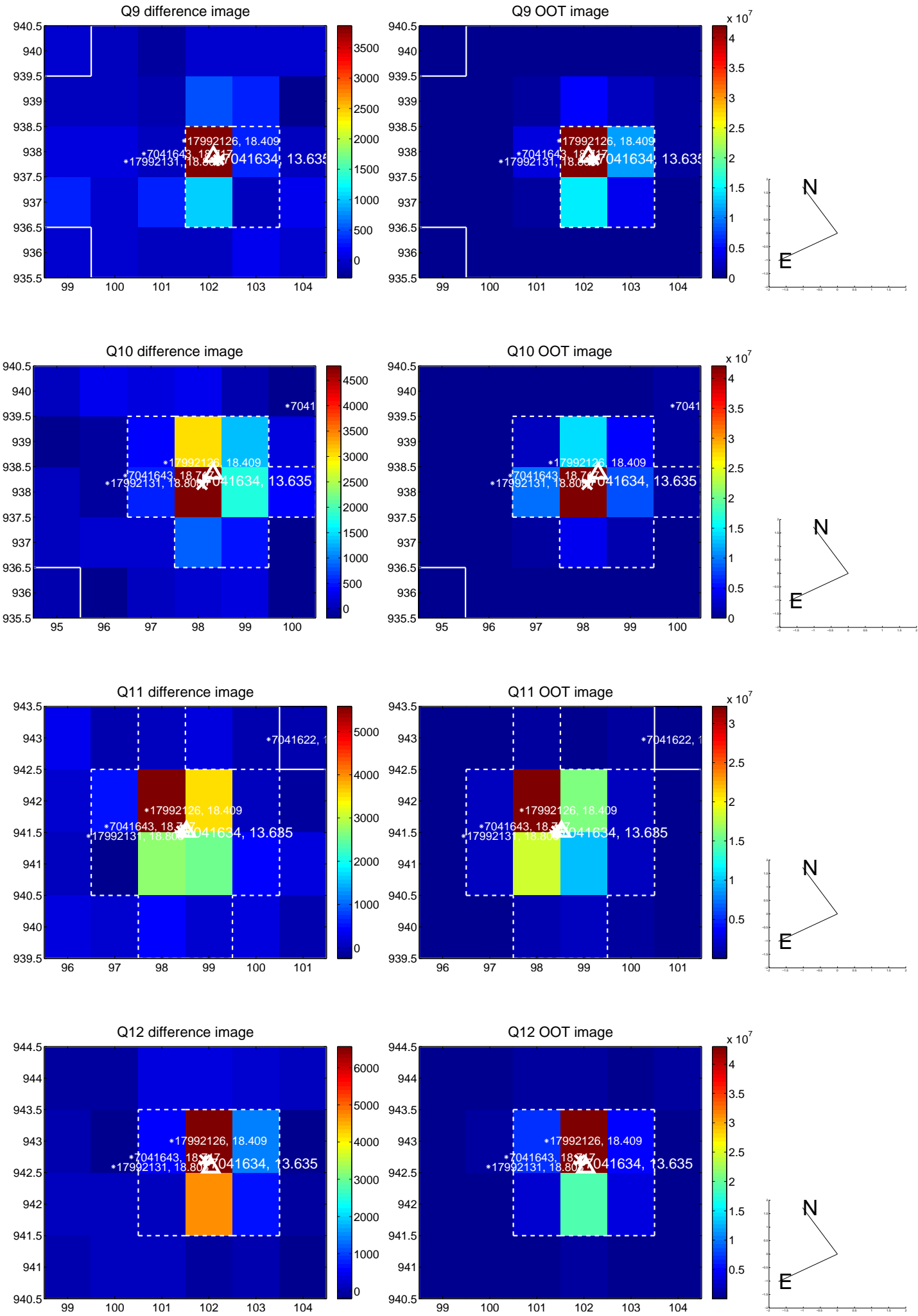


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

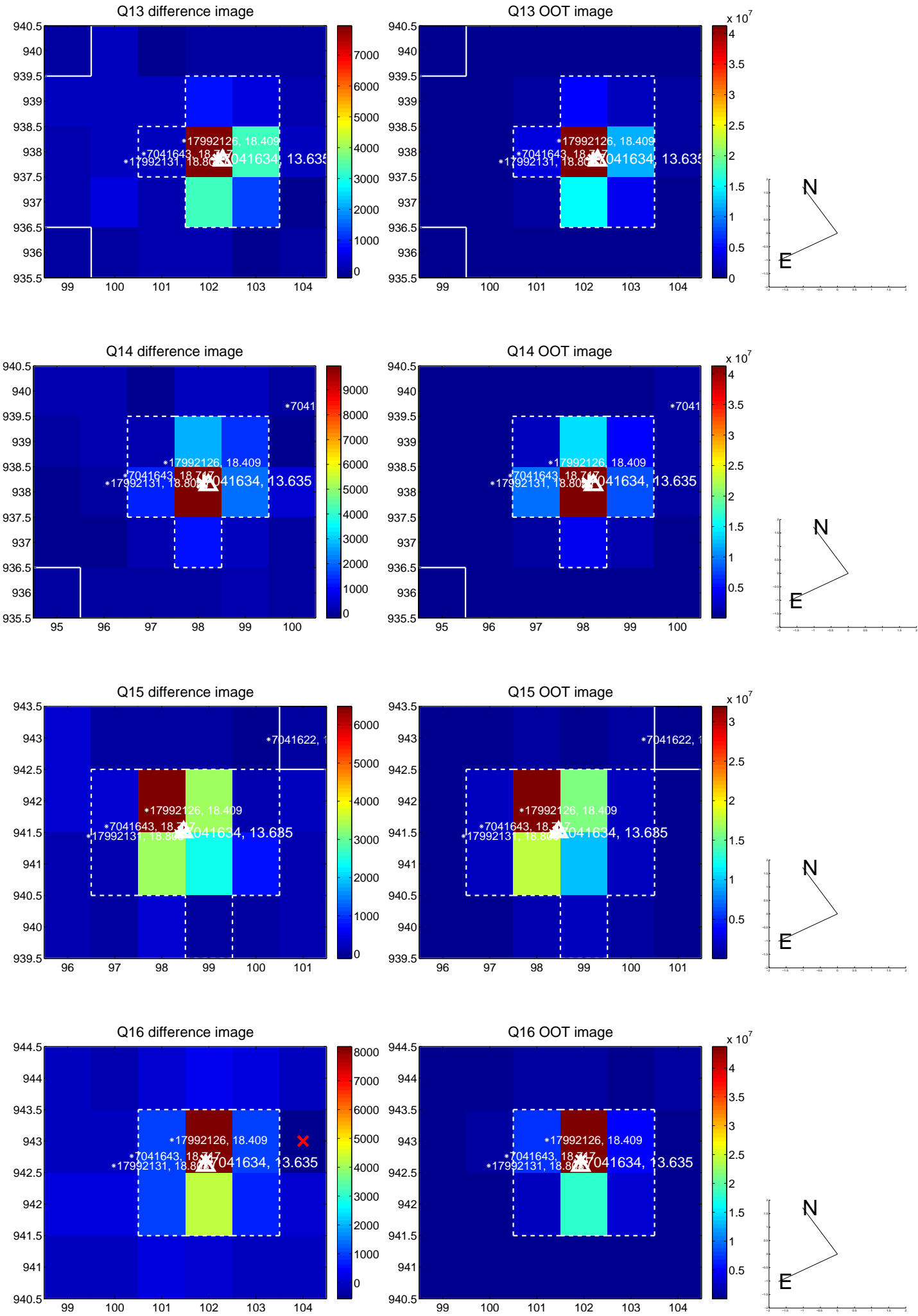
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



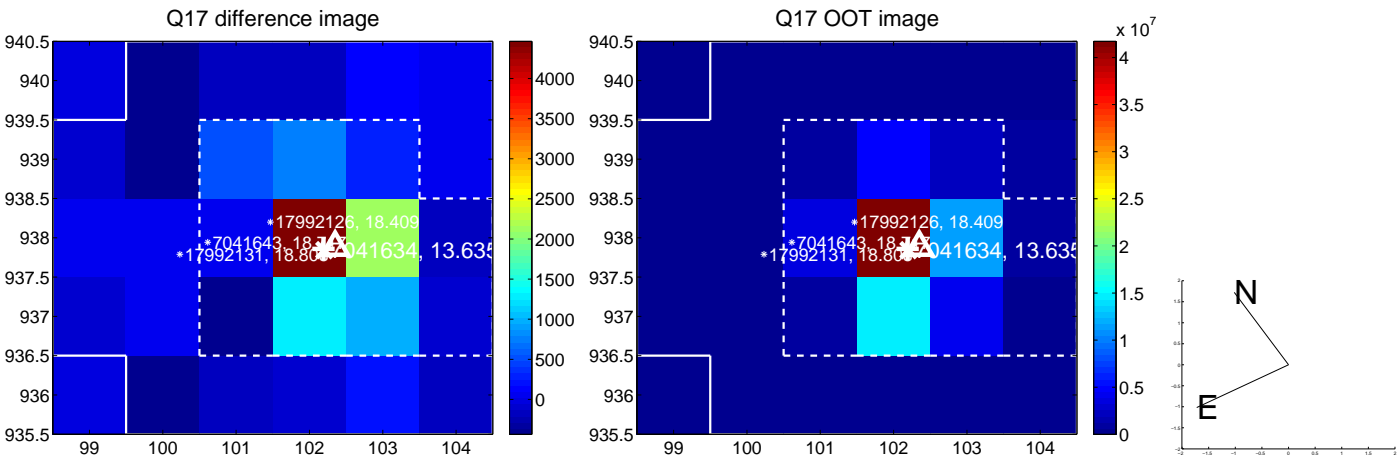
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



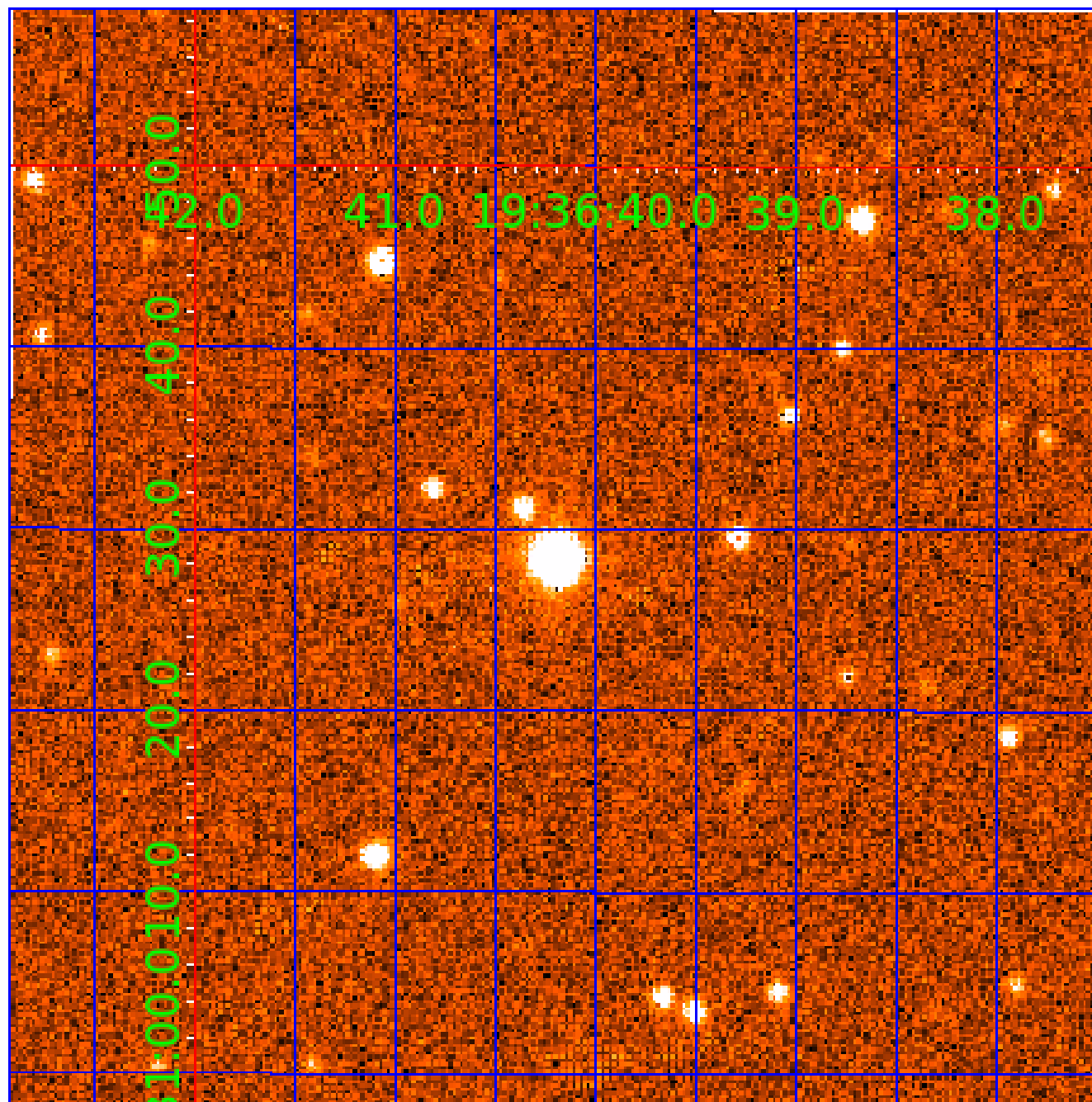
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007041634

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})
007041634-01	OBS	No	1.306749	131.712012	0.1	2.699	9.6	0.0	1.79	6735	0.05	8021.09
007041634-02	OBS	No	1.306827	131.761064	190.5	2.451	9.7	5.9	1.79	6735	2.49	8020.45
007041634-03	OBS	No	1.306909	131.973511	32.5	3.250	9.4	10.8	1.79	6735	1.18	8019.78

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007041634-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007041634-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
007041634-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD

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

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

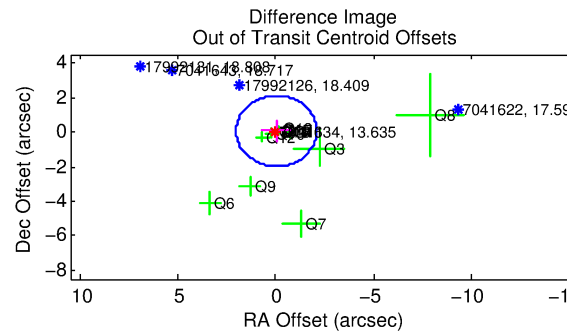
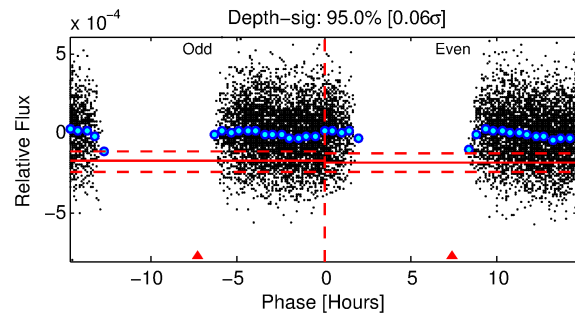
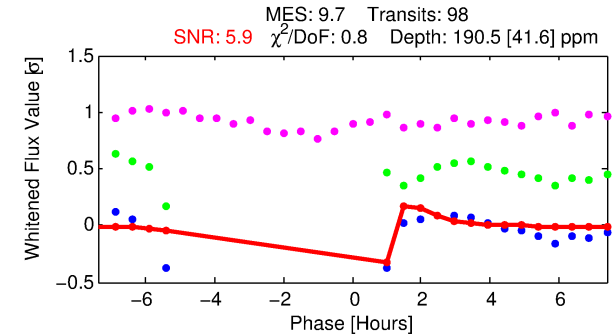
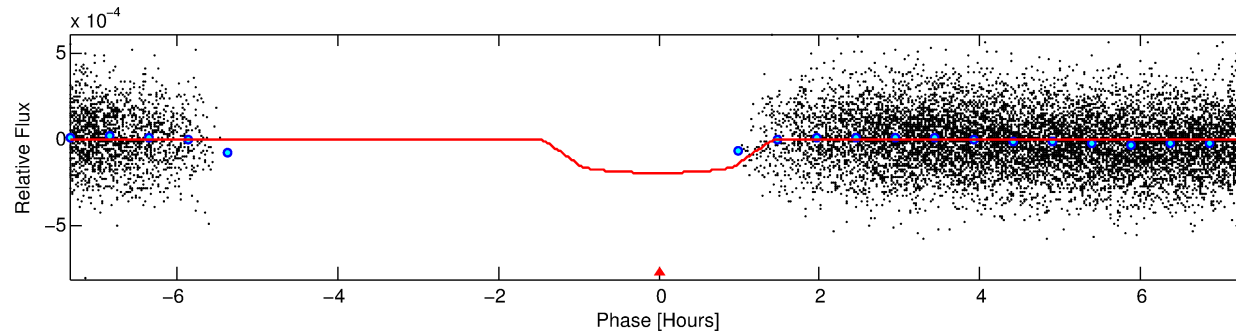
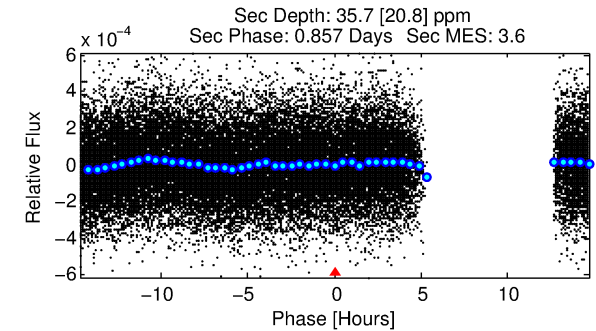
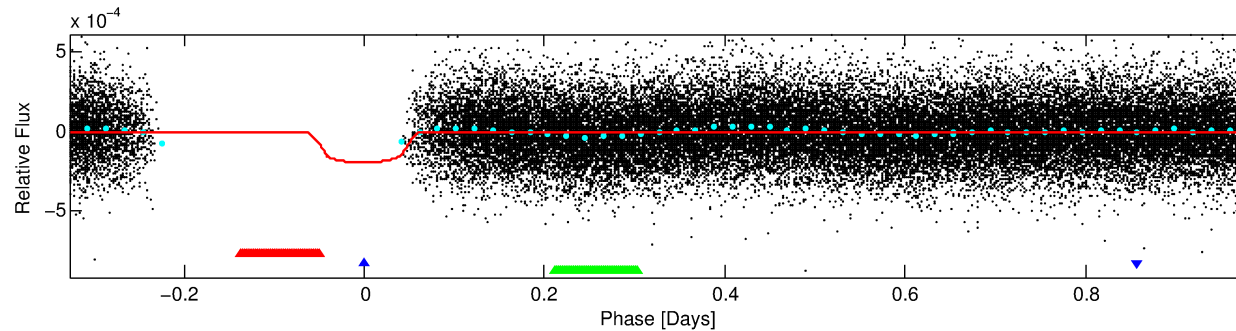
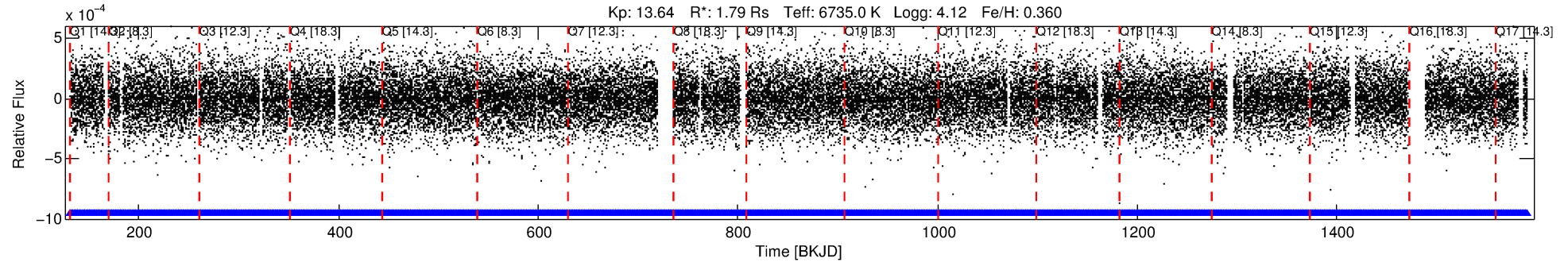
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007041634-02

No Significant Match Found

DV One-Page Summary

KIC: 7041634 Candidate: 2 of 3 Period: 1.307 d



DV Fit Results:

Period = 1.30683 [0.00000] d
Epoch = 131.7611 [0.0040] BKJD
Rp/R* = 0.0127 [0.0120]
a/R* = 4.15 [19.94]
b = 0.09 [53.57]
Seff = 8020.45 [3193.17]
Teq = 2413 [240] K
Rp = 2.49 [2.47] Re
a = 0.0271 [0.0070] AU
Ag = 2.34 [4.69] [0.29σ]
Teffp = 4614 [2281] K [0.96σ]

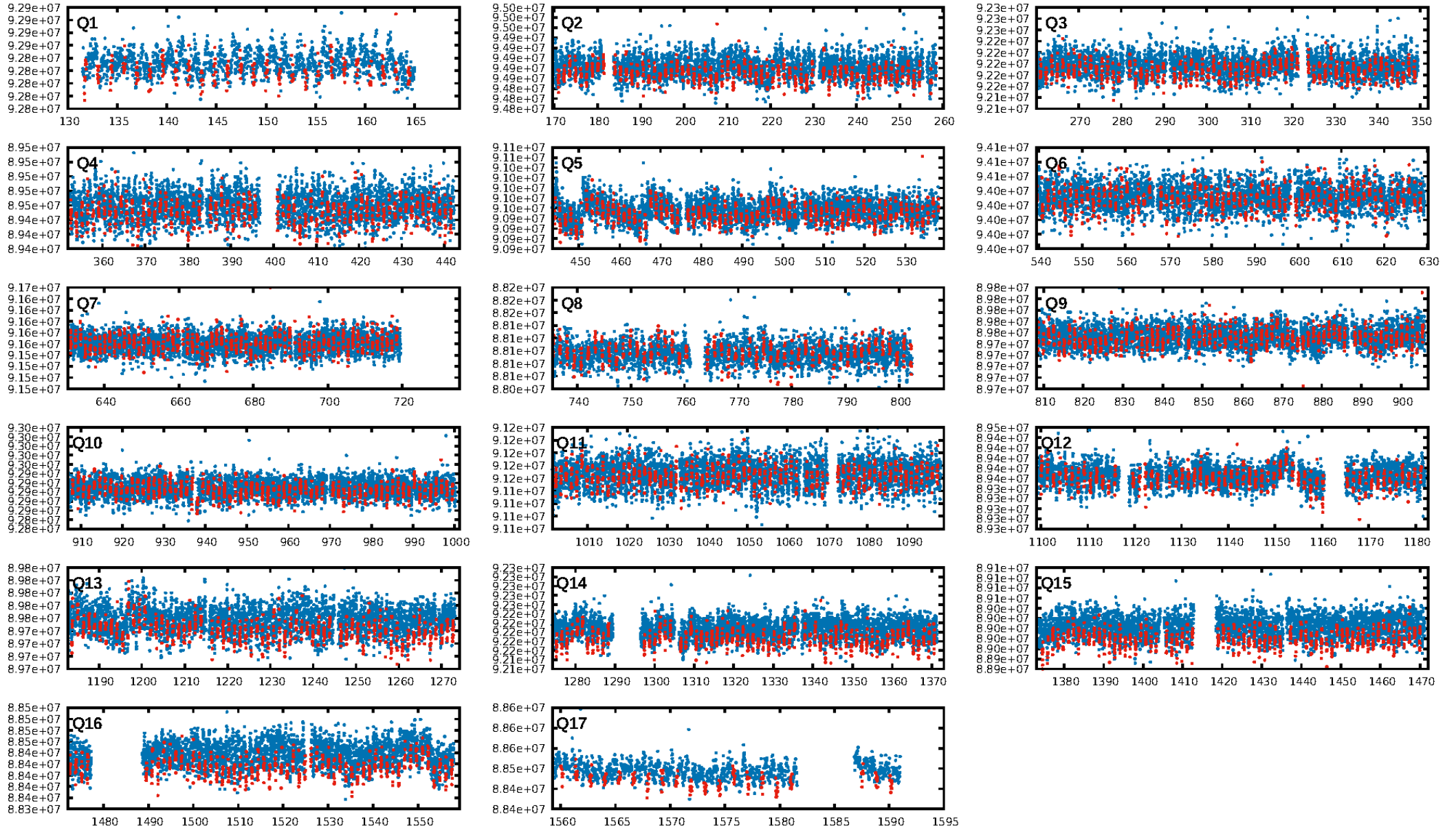
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 99.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.42e-16
RollingBand-fgt: 1.00 [81/81]
GhostDiagnostic-chr: -0.87
Centroid-sig: 2.1%
Centroid-so: 0.416 arcsec [2.82σ]
OotOffset-rm: 0.068 arcsec [0.10σ]
KicOffset-rm: 0.082 arcsec [0.12σ]
OotOffset-st: 3/4/3/3 [13]
KicOffset-st: 3/4/3/3 [13]
DiffImageQuality-fgm: 0.69 [9/13]
DiffImageOverlap-fno: 0.00 [0/17]

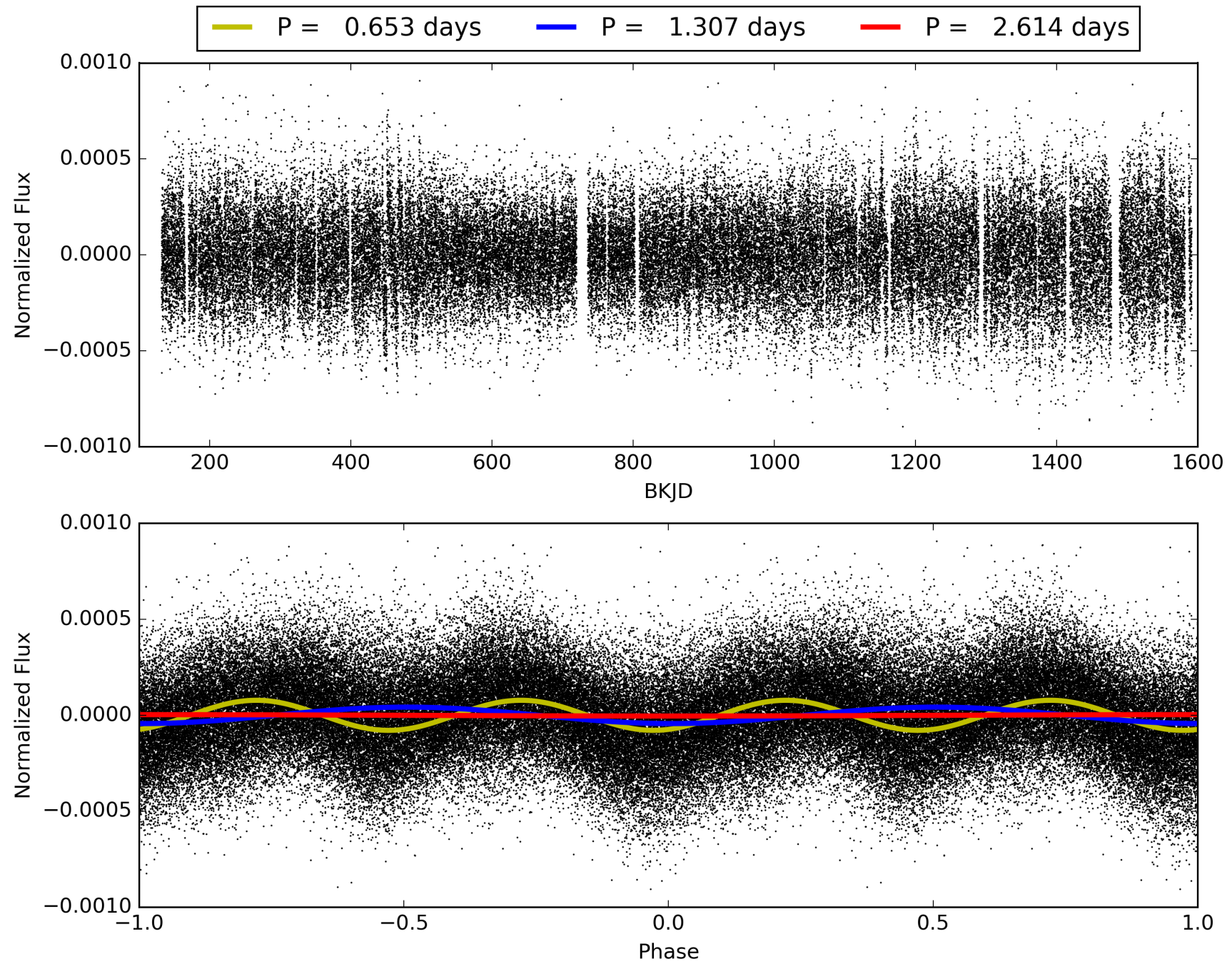
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 14:48:25 Z

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

TCE 007041634-02, PDC Light Curves

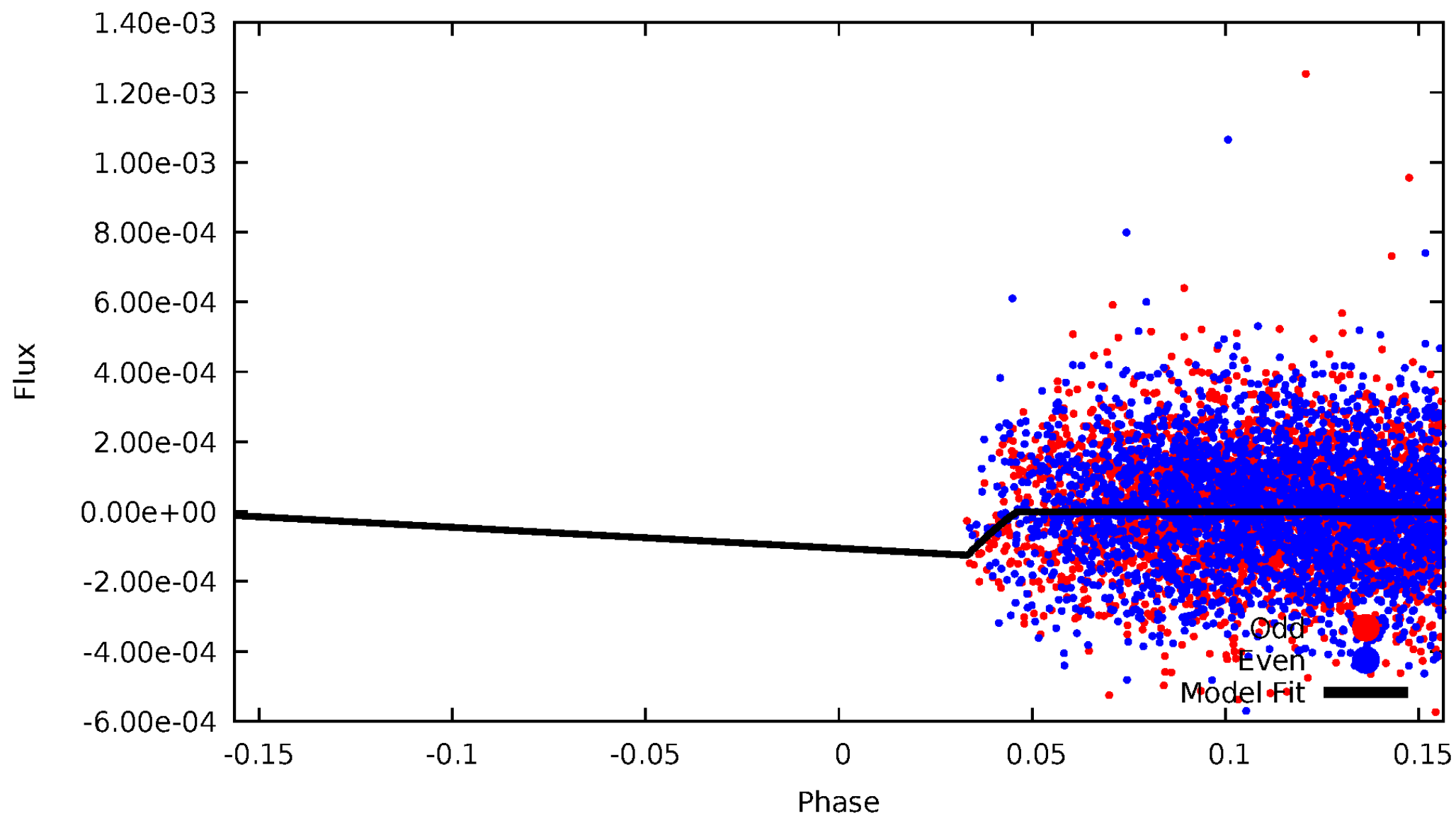


TCE 007041634-02



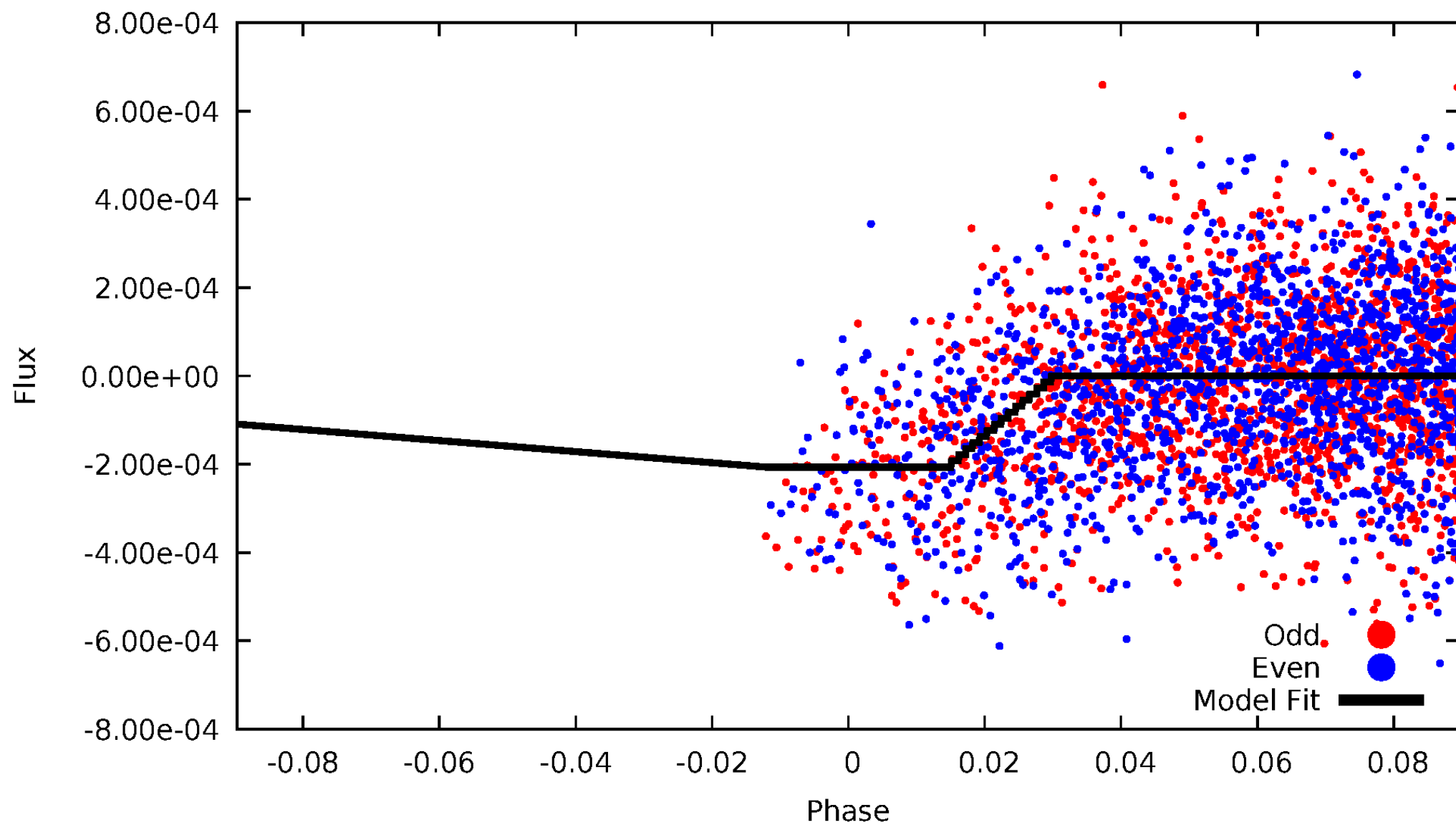
DV Odd/Even

TCE 007041634-02



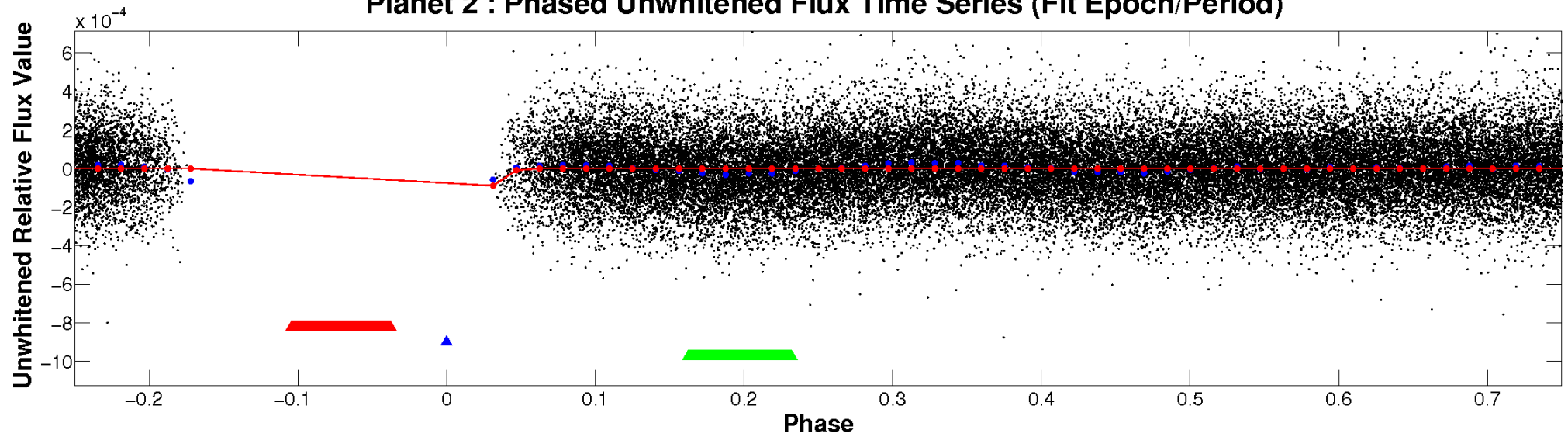
ALT Odd/Even

TCE 007041634-02

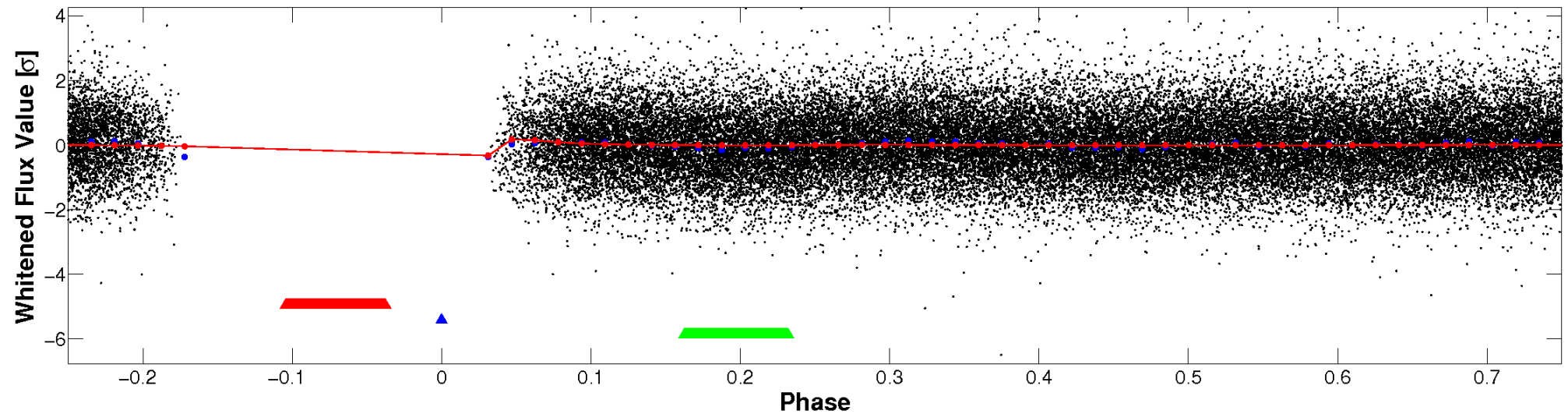


Non-Whitened Vs. Whitened Light Curve

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

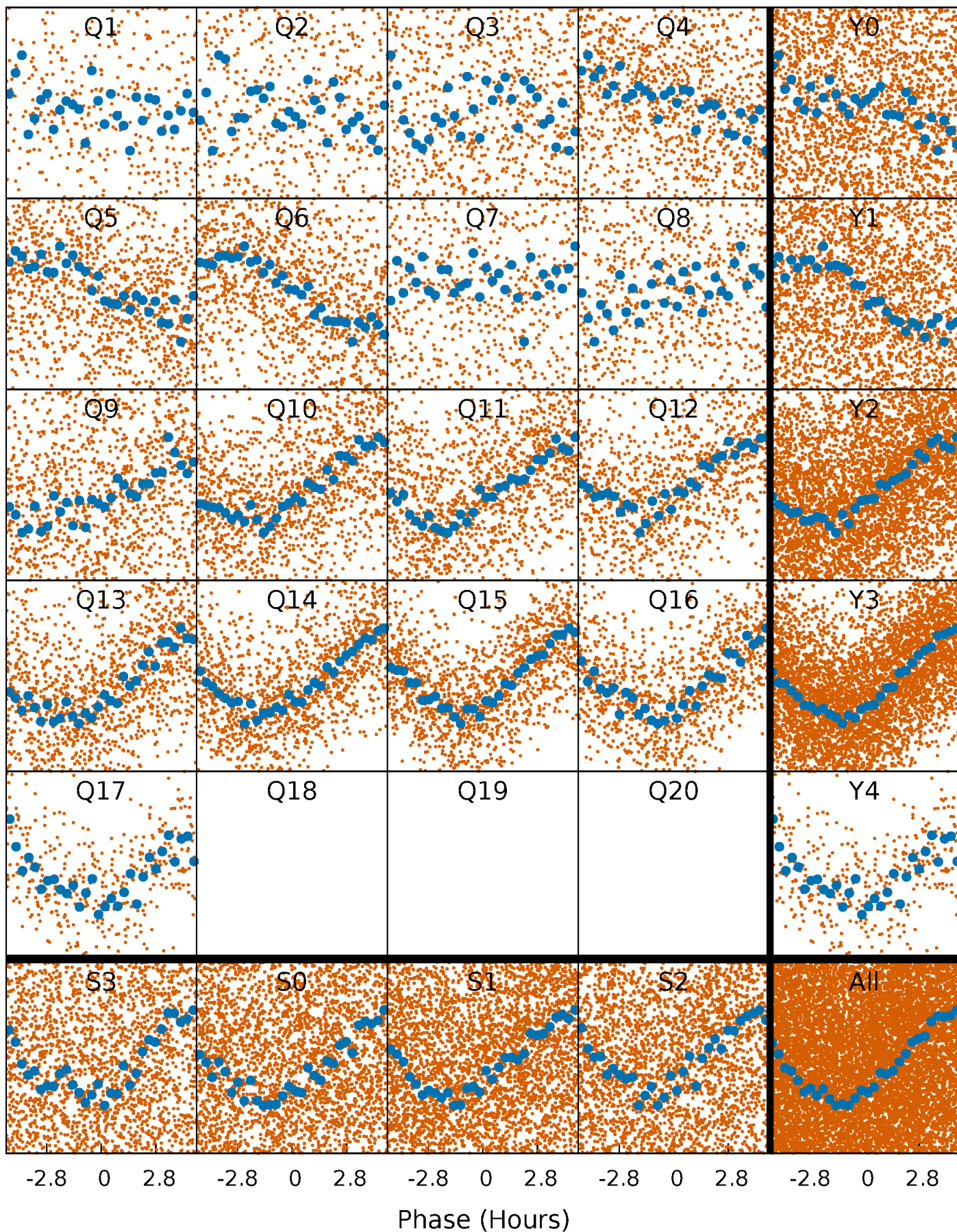


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



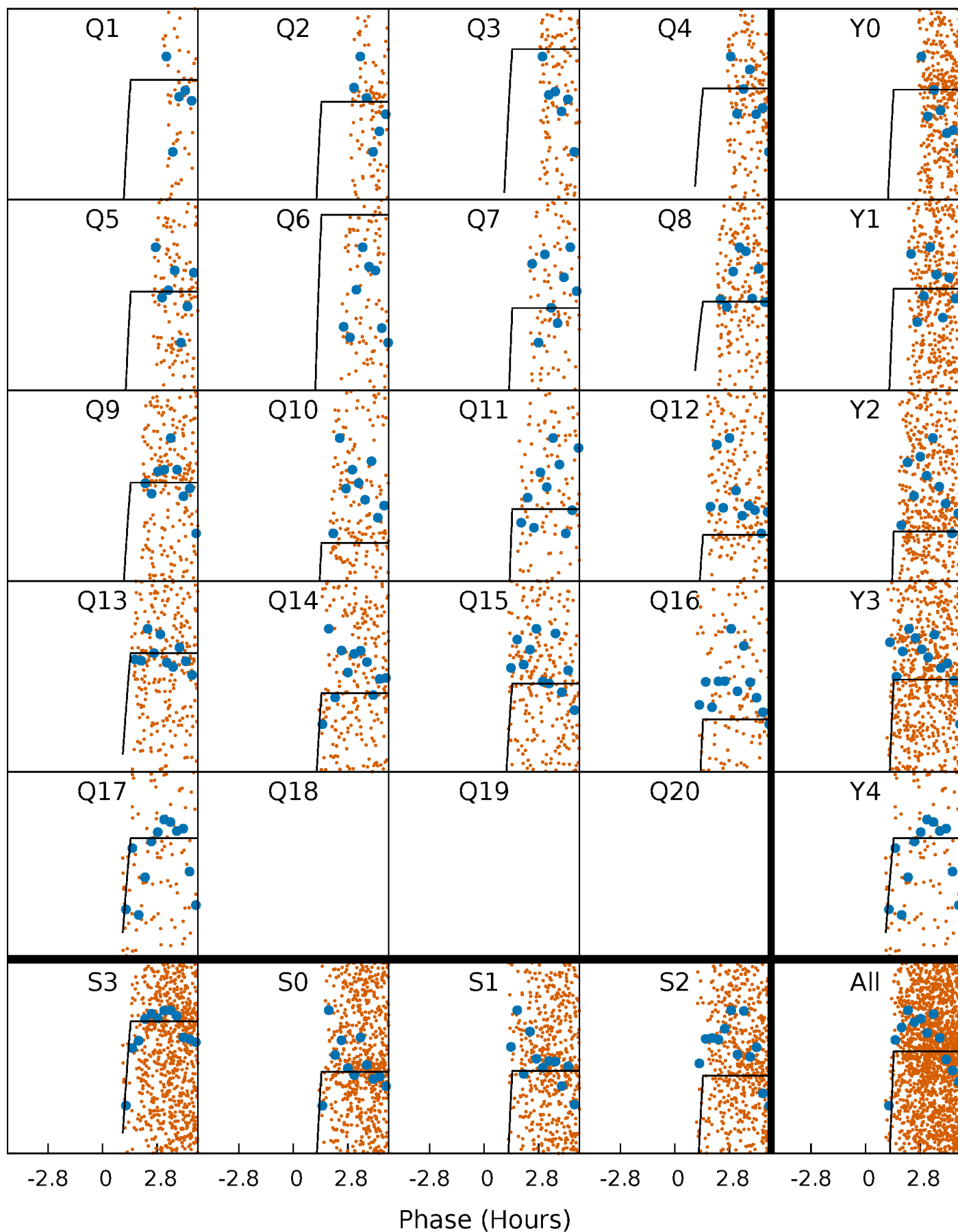
PDC Quarter-Phased Transit Curves

TCE 007041634-02 P= 1.306827 Days $T_0=131.761064$ (BKJD)



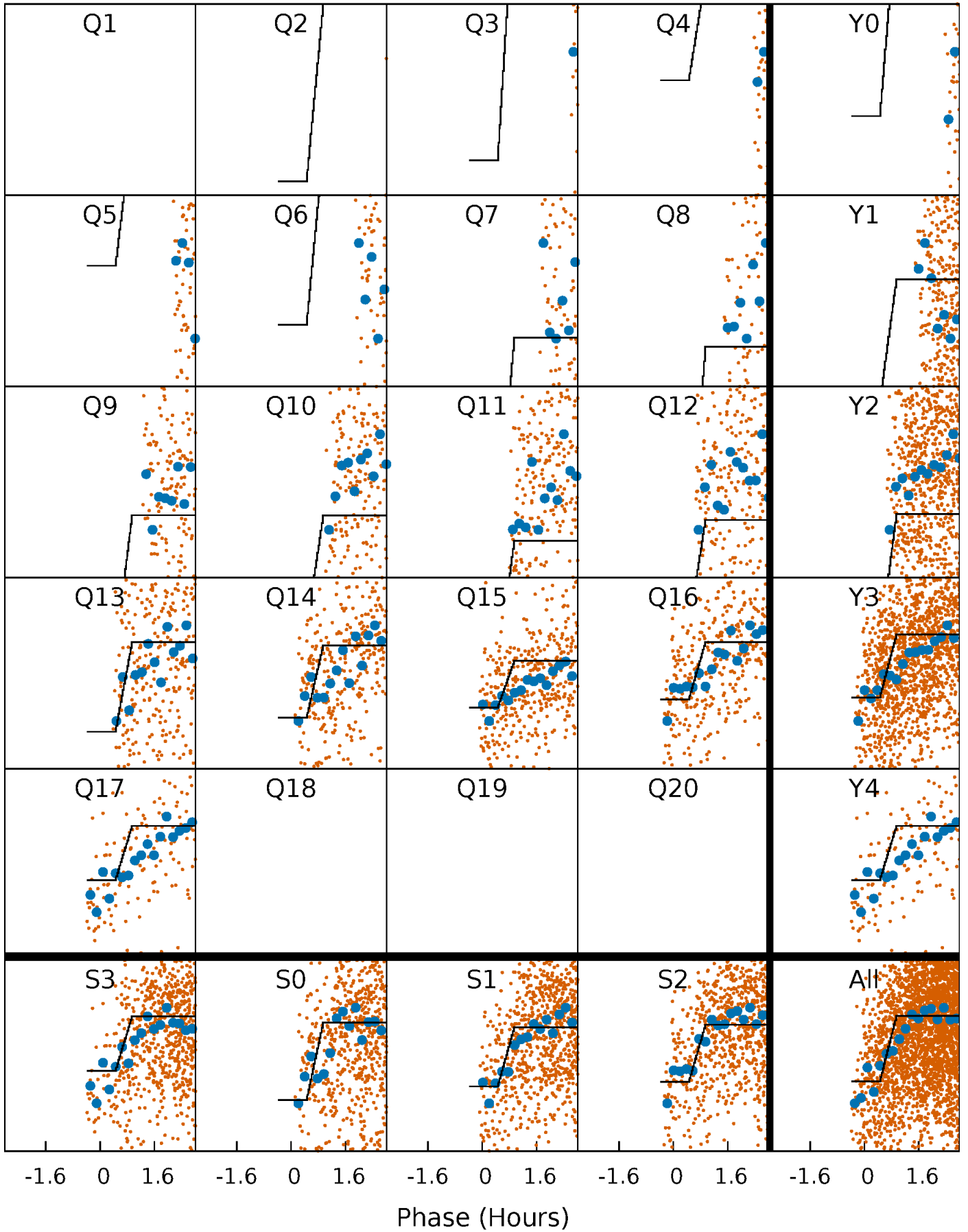
DV Quarter-Phased Transit Curves

TCE 007041634-02 P= 1.306827 Days $T_0=131.761064$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

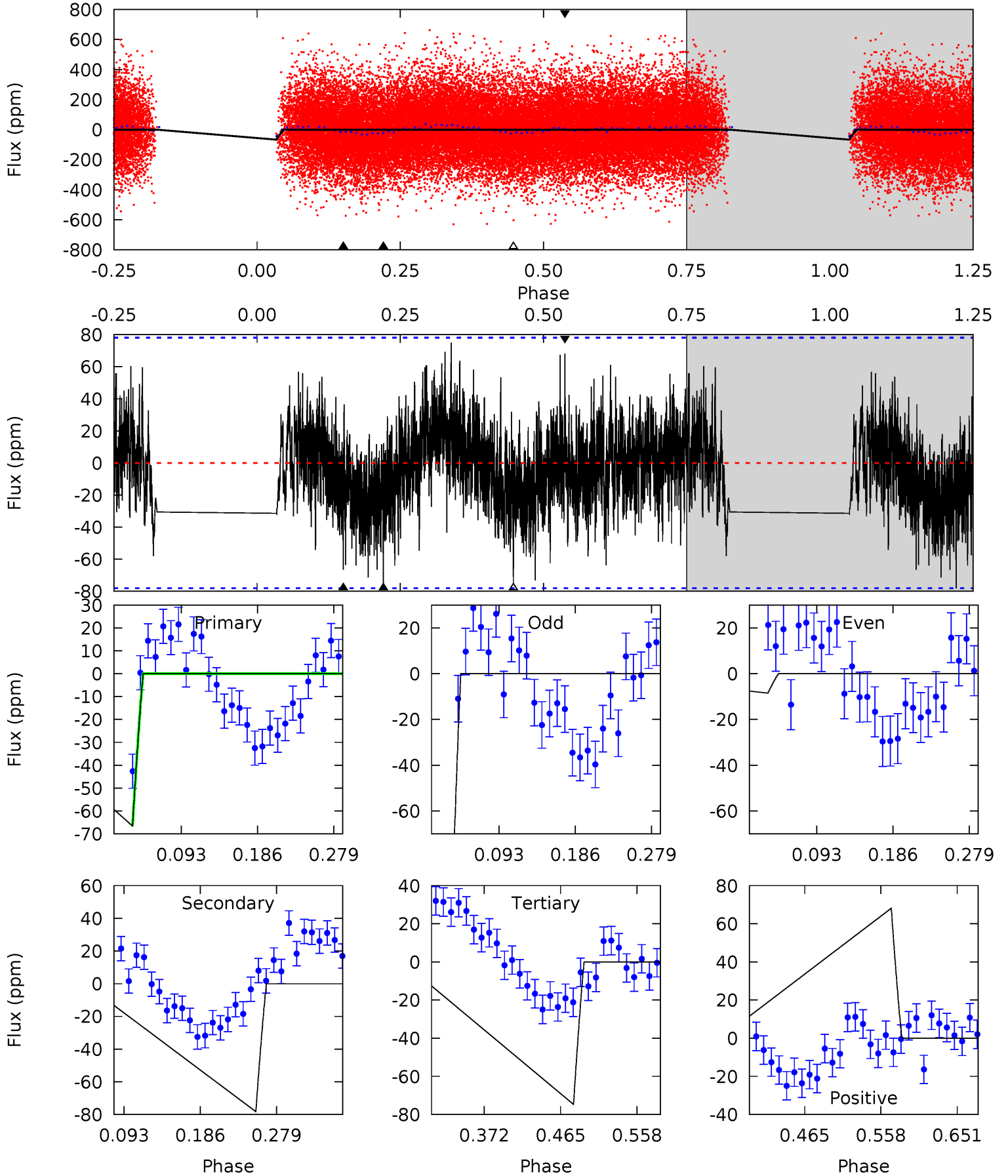
TCE 007041634-02 P= 1.306878 Days $T_0=131.763492$ (BKJD)



DV Model-Shift Uniqueness Test

007041634-02, P = 1.306827 Days, E = 130.454237 Days

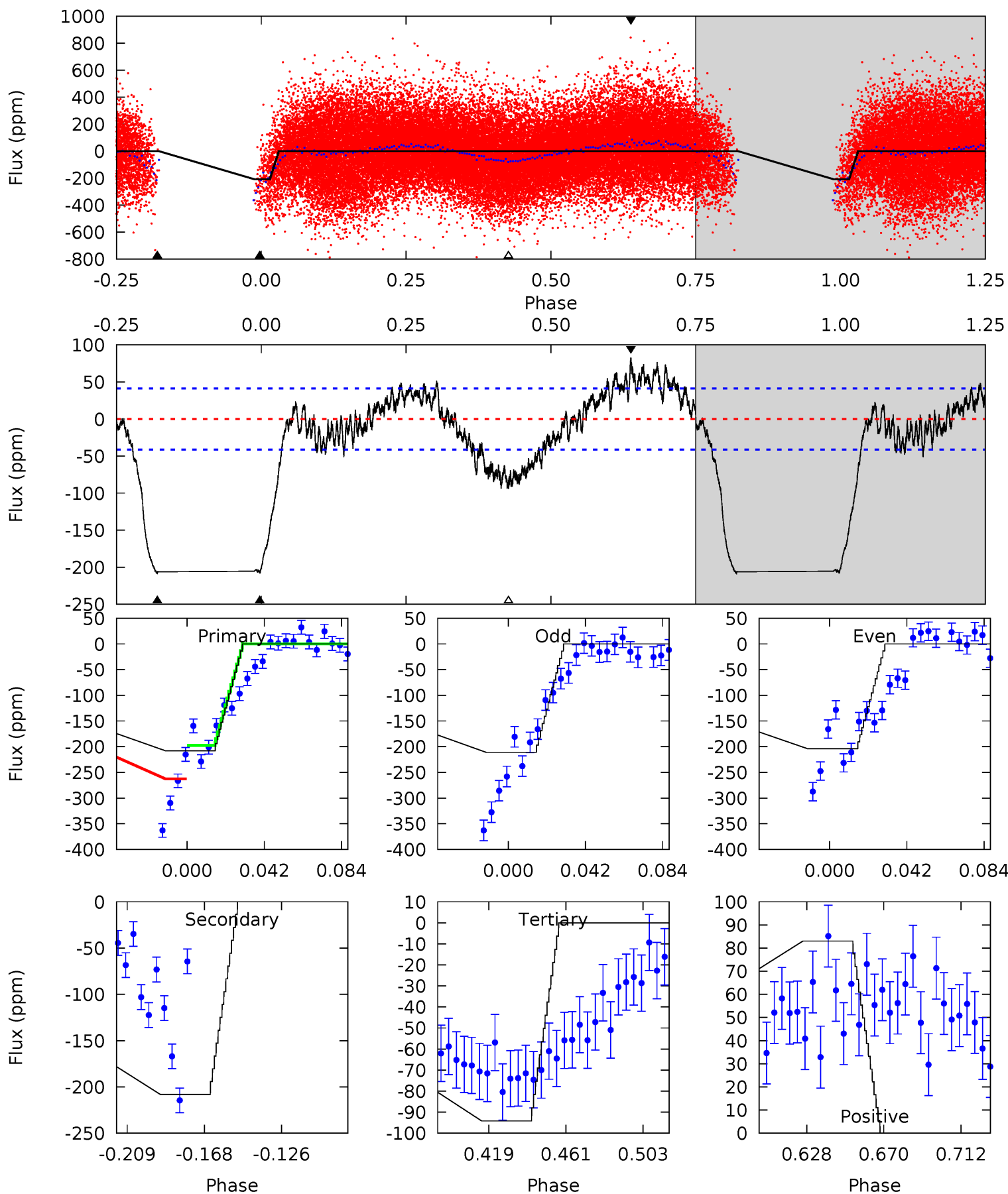
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.90	4.59	4.38	3.99	4.58	1.68	1.17	-0.48	-0.09	0.21	0.59	3.48	0	0.49	0



Alt Model-Shift Uniqueness Test

007041634-02, P = 1.306878 Days, E = 130.456614 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.9	23.9	10.8	9.54	4.74	2.03	4.70	13.0	14.3	13.1	14.4	0.41	1.03	0.29	2.16



Stellar Parameters For KIC 007041634

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6735^{+185}_{-278}	$4.125^{+0.144}_{-0.192}$	$0.360^{+0.100}_{-0.350}$	$1.788^{+0.565}_{-0.377}$	$1.557^{+0.197}_{-0.241}$	$0.383^{+0.258}_{-0.197}$
	+3%/-4%	+3%/-5%	+28%/-97%	+32%/-21%	+13%/-15%	+67%/-51%
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 007041634-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-78 ± 17	$3.03^{+2.17}_{-1.77}$	3378^{+270}_{-222}	5052^{+3071}_{-1181}	$3.468^{+15.394}_{-2.343}$
Alt.	-208 ± 9	$3.05^{+2.21}_{-1.85}$	3379^{+268}_{-236}	6275^{+5243}_{-1367}	$8.557^{+48.722}_{-5.569}$

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

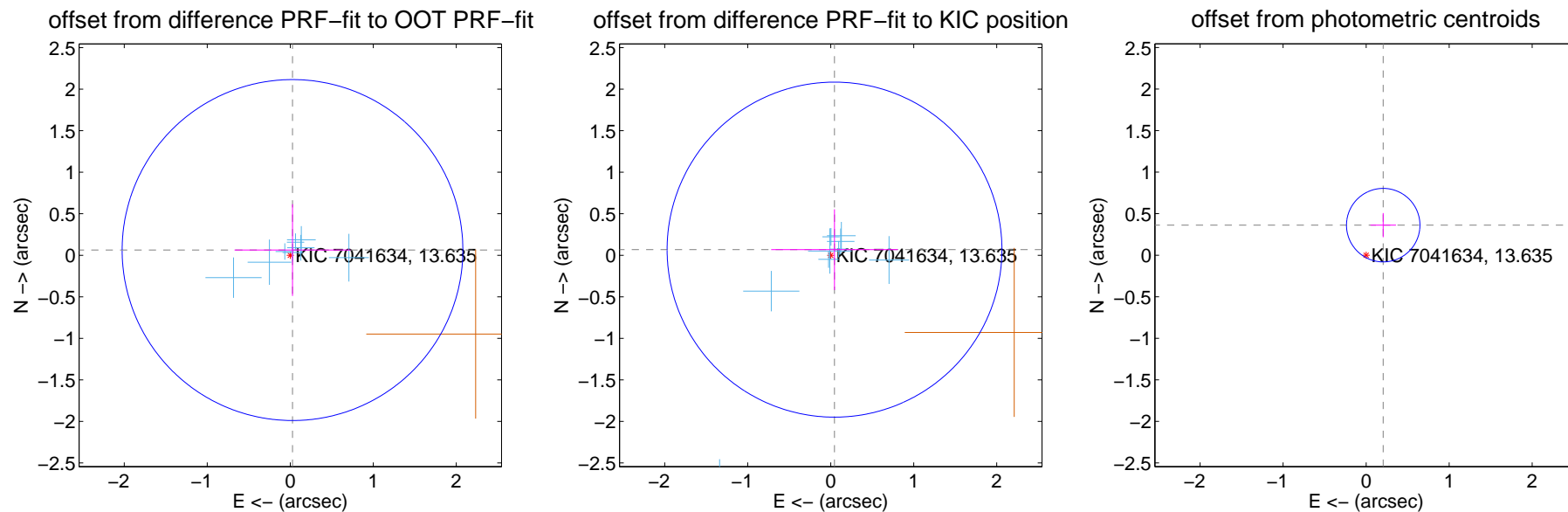
DV Centroid Data

Supplemental centroid analysis for 007041634-02. Kepler magnitude: 13.63. Transit SNR 5.85

There are 9 quarters with good PRF difference image offsets

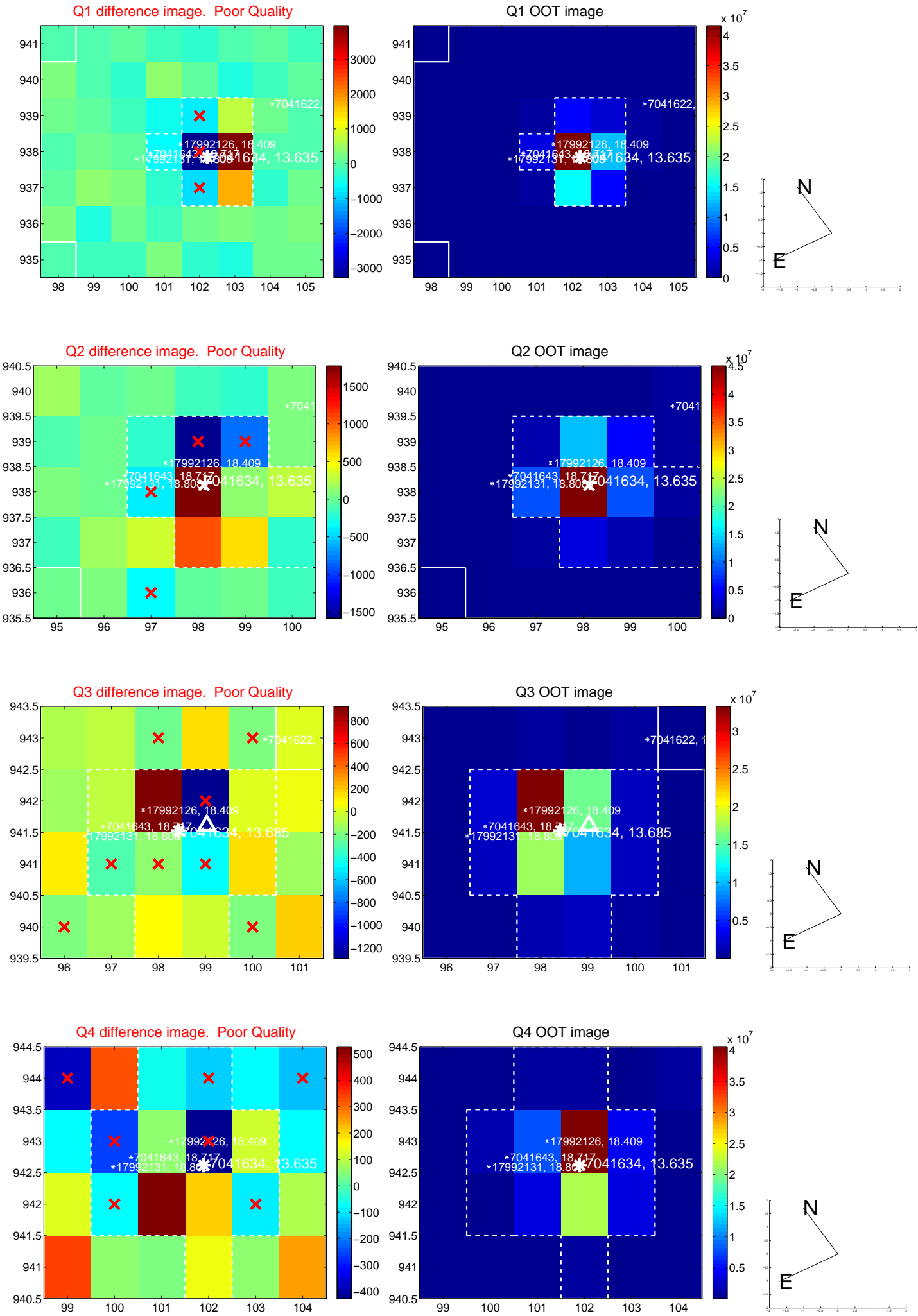
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.068 ± 0.684	0.10	-0.027 ± 0.698	0.063 ± 0.552
PRF-fit source offset from KIC position	0.082 ± 0.672	0.12	-0.046 ± 0.763	0.068 ± 0.486
photometric centroid source offset	0.42 ± 0.15	2.82	-0.21 ± 0.15	0.36 ± 0.15

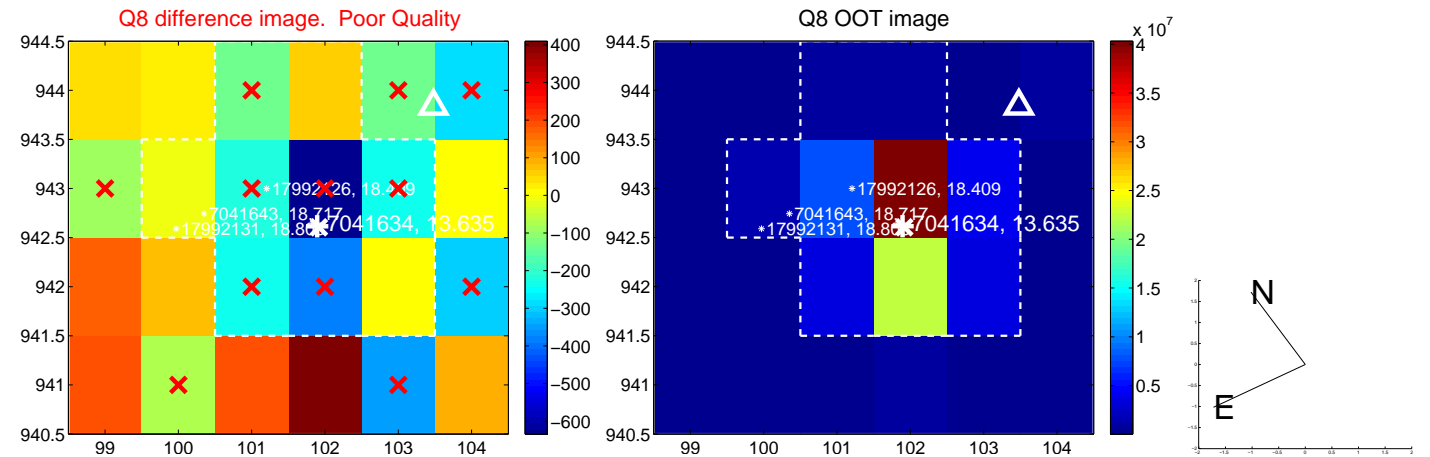
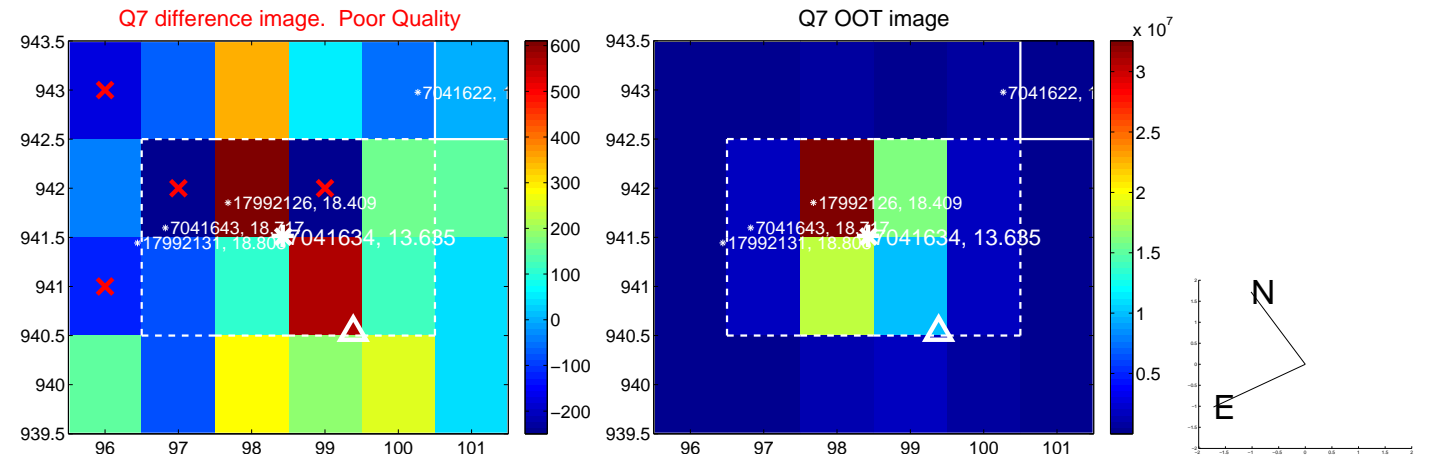
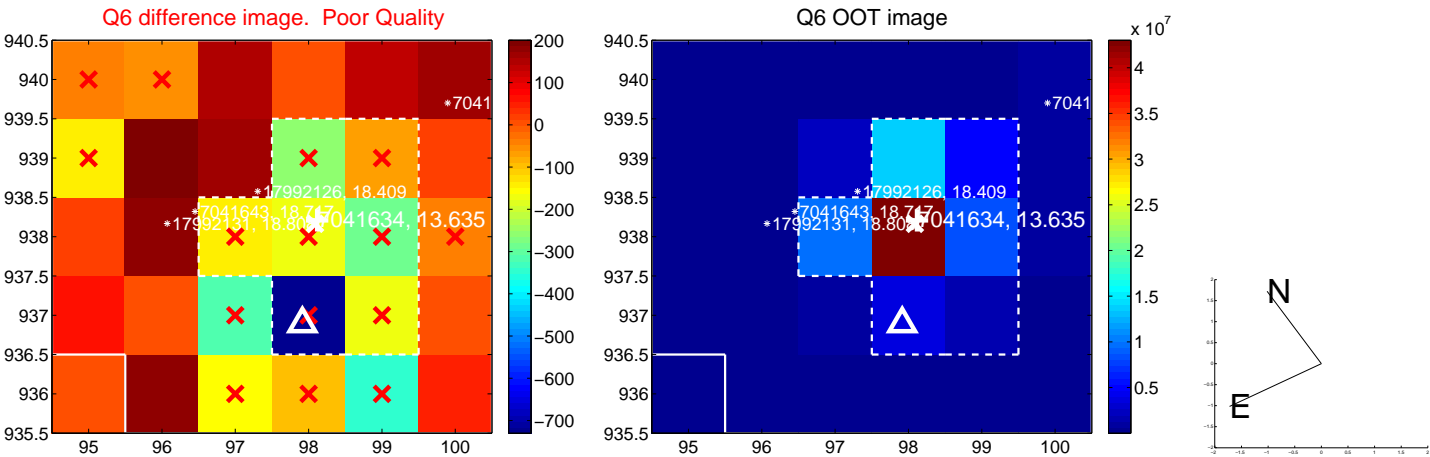
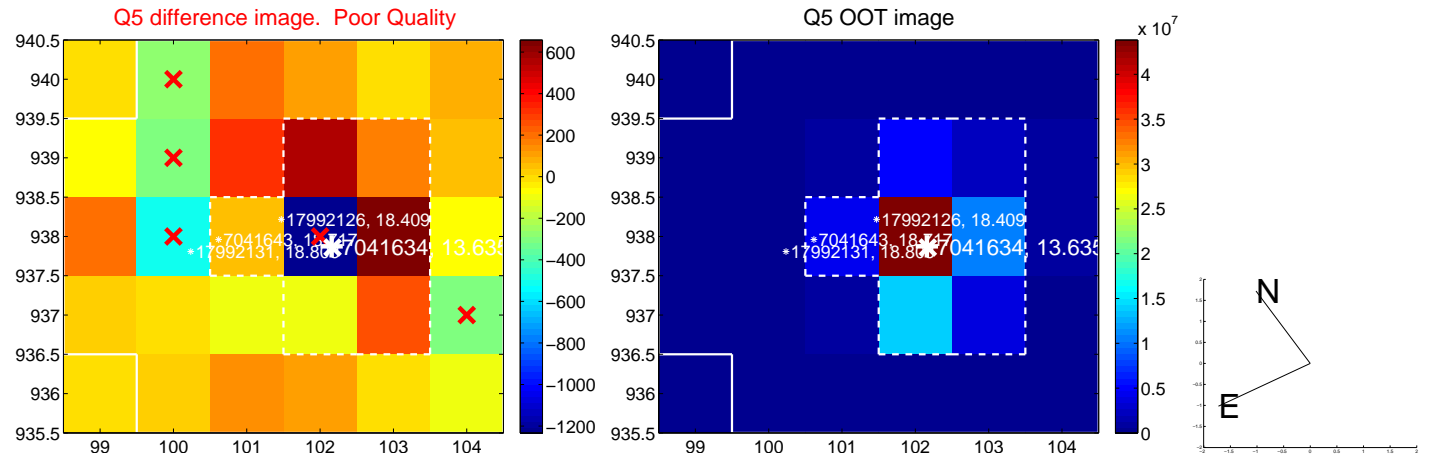


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

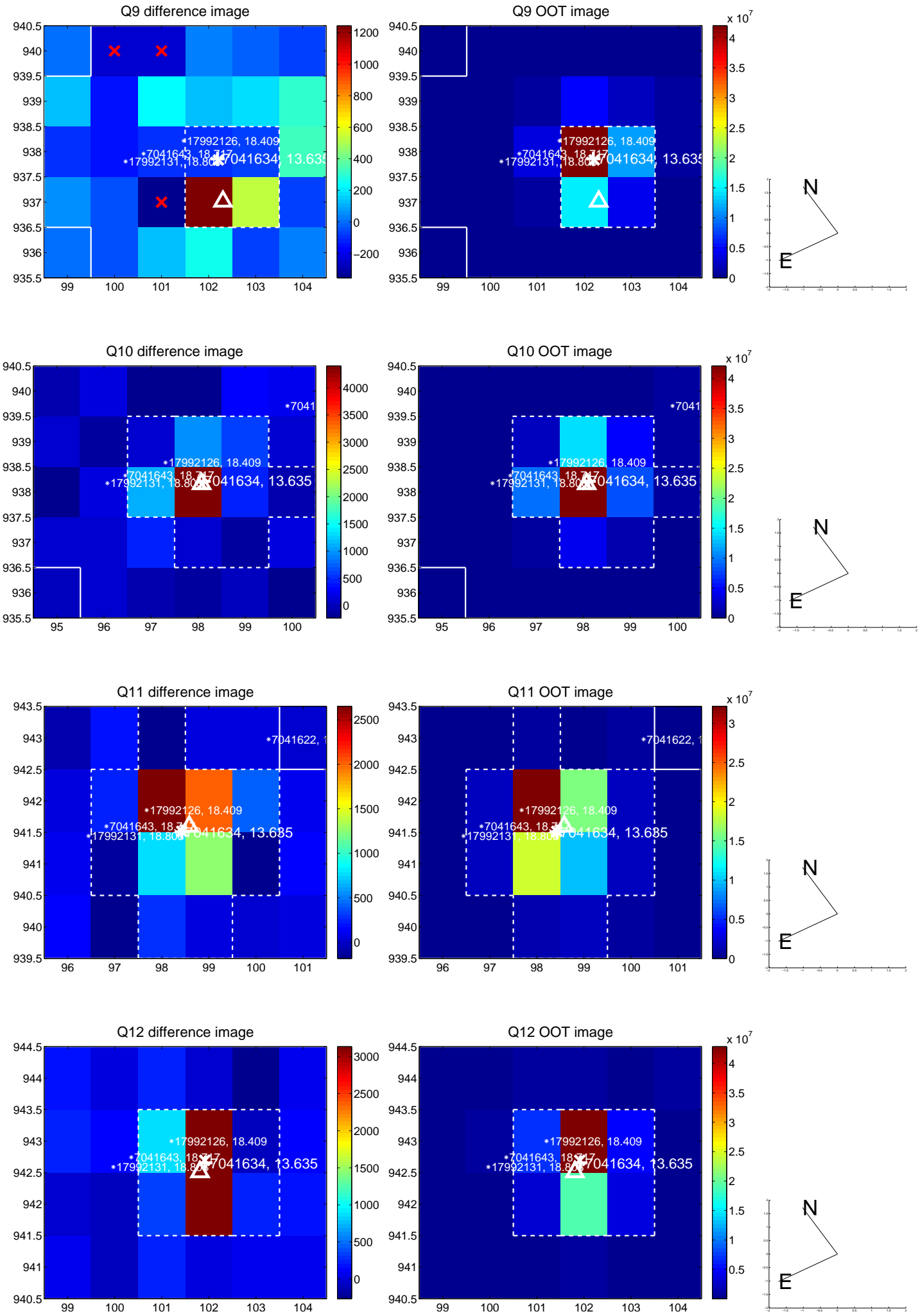
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



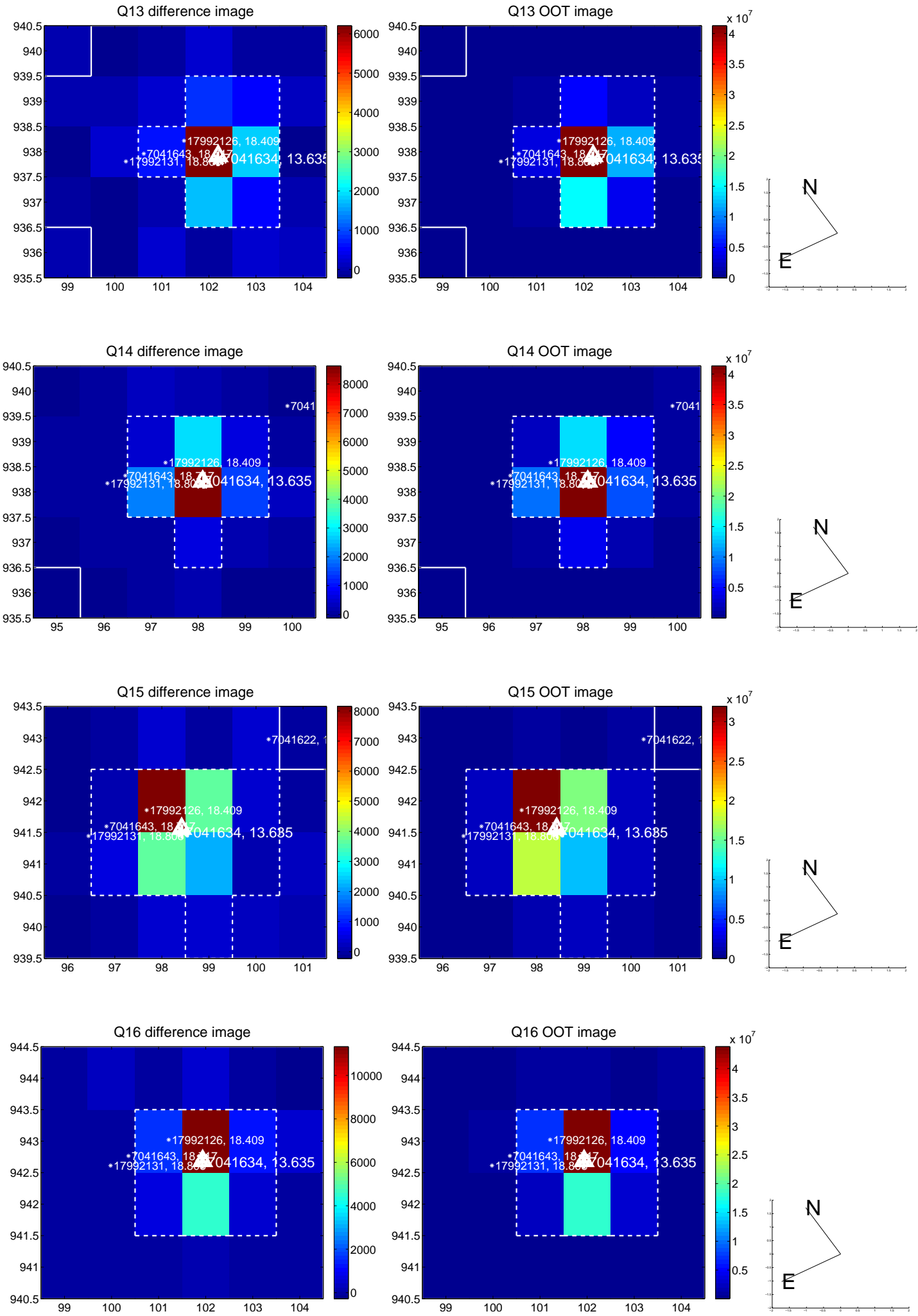
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



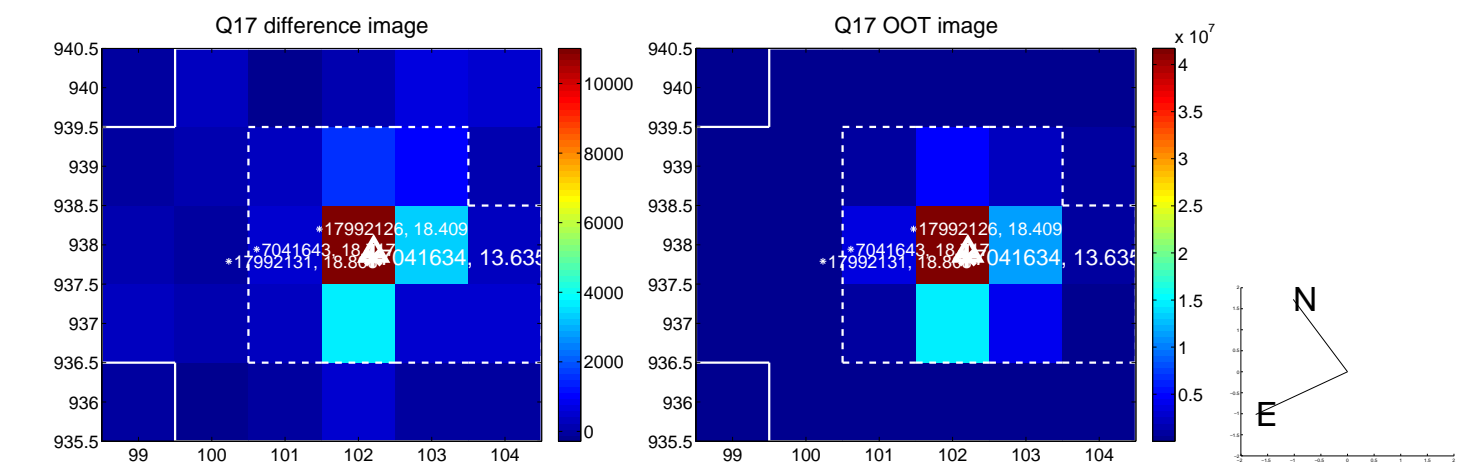
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



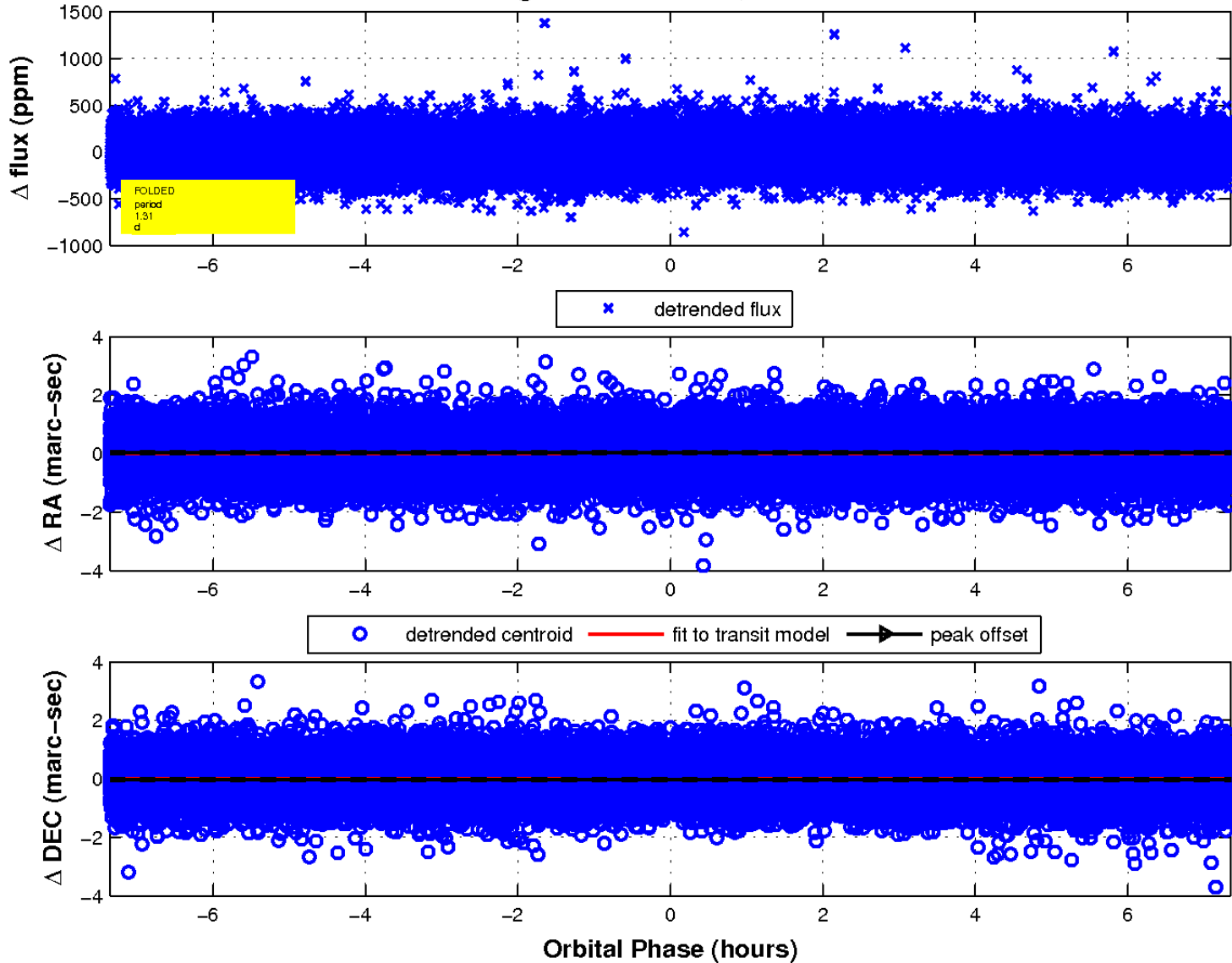
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

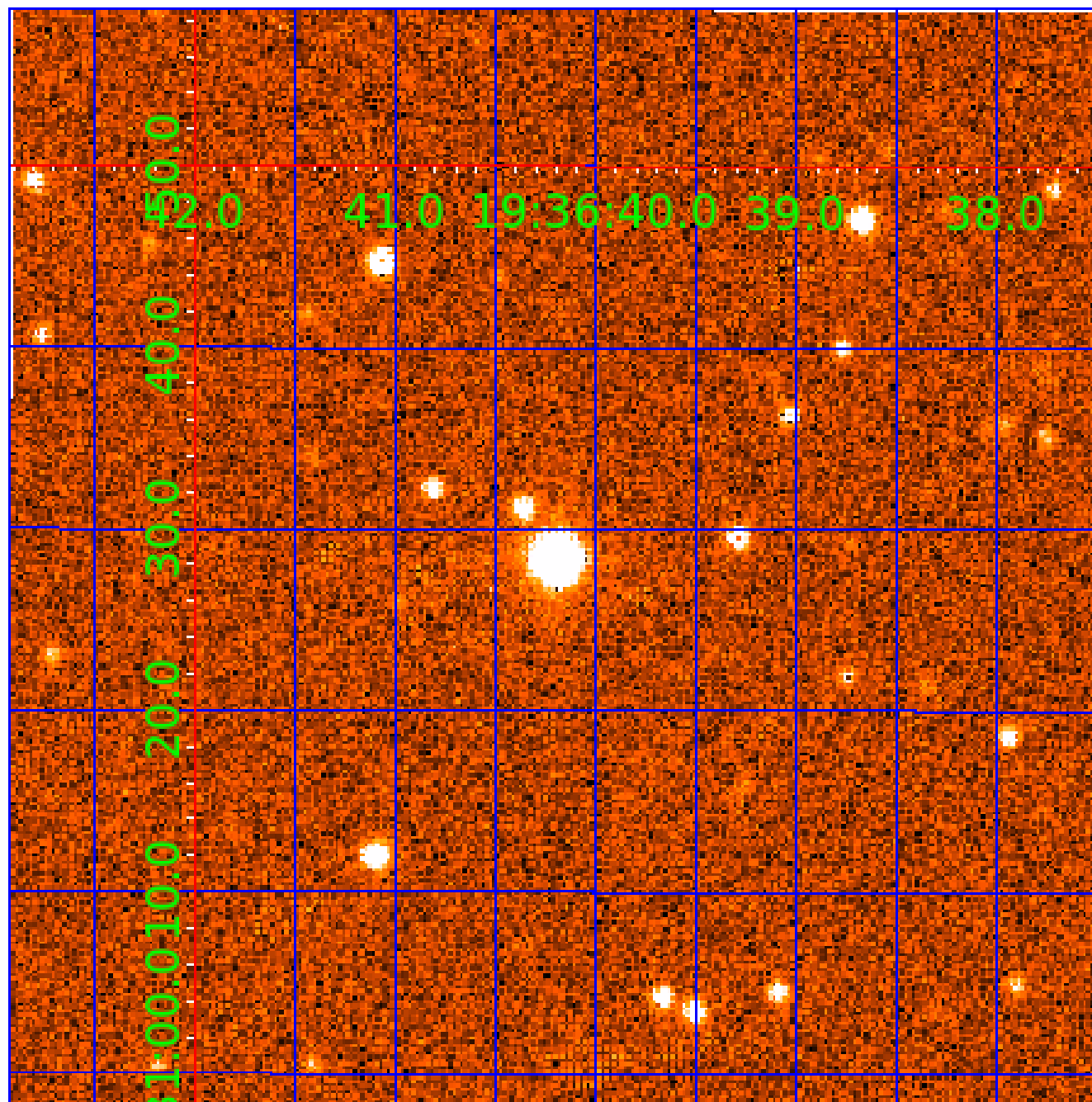


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 007041634

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})
007041634-01	OBS	No	1.306749	131.712012	0.1	2.699	9.6	0.0	1.79	6735	0.05	8021.09
007041634-02	OBS	No	1.306827	131.761064	190.5	2.451	9.7	5.9	1.79	6735	2.49	8020.45
007041634-03	OBS	No	1.306909	131.973511	32.5	3.250	9.4	10.8	1.79	6735	1.18	8019.78

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007041634-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007041634-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
007041634-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD

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

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

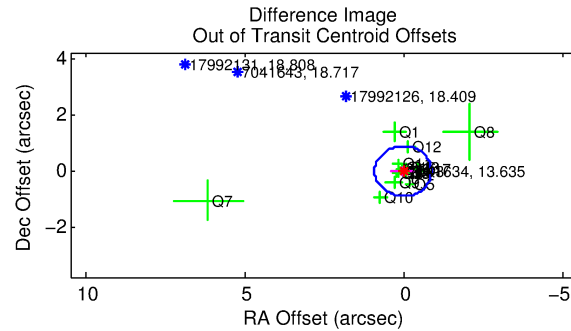
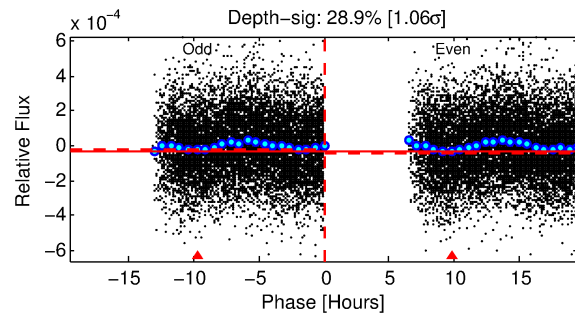
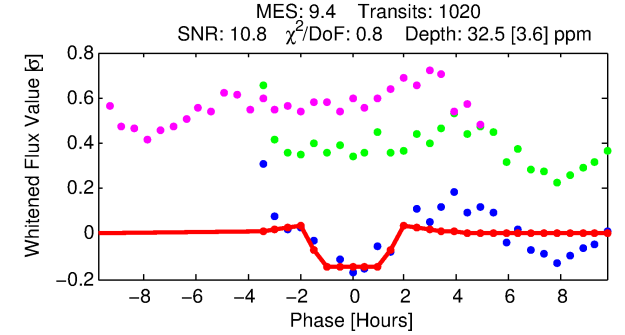
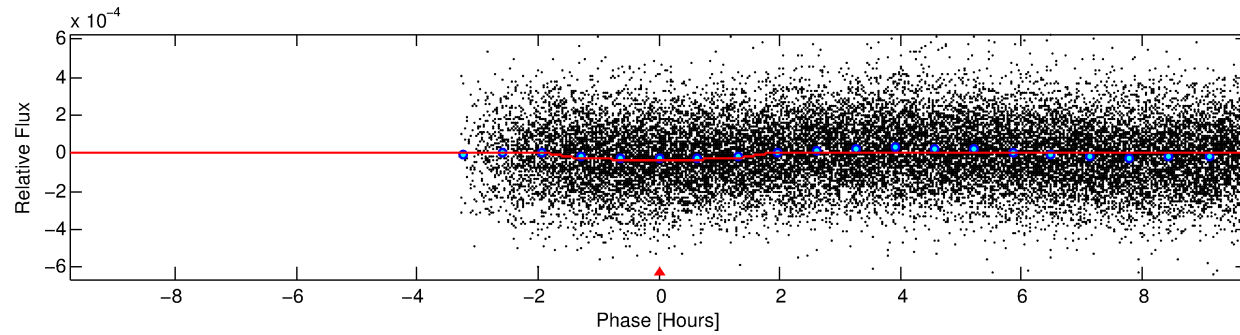
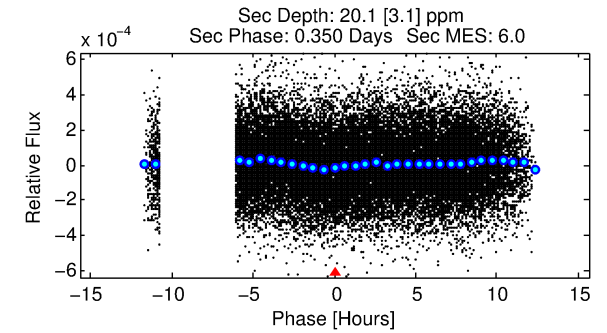
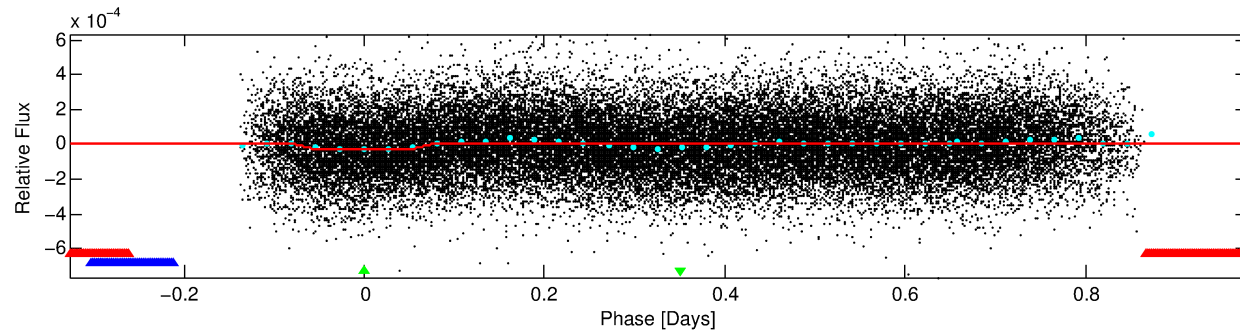
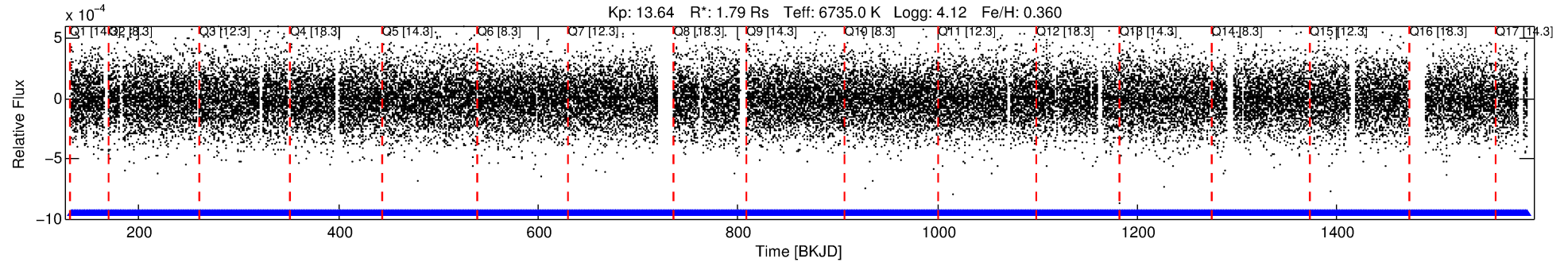
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007041634-03

No Significant Match Found

DV One-Page Summary

KIC: 7041634 Candidate: 3 of 3 Period: 1.307 d



DV Fit Results:

Period = 1.30691 [0.00001] d
Epoch = 131.9735 [0.0032] BKJD
Rp/R* = 0.0061 [0.0021]
a/R* = 1.70 [2.27]
b = 0.89 [0.47]
Seff = 8019.79 [3192.90]
Teff = 2413 [240] K
Rp = 1.18 [0.56] Re
a = 0.0271 [0.0070] AU
Ag = 5.80 [4.68] [1.02σ]
Teffp = 5789 [1073] K [3.07σ]

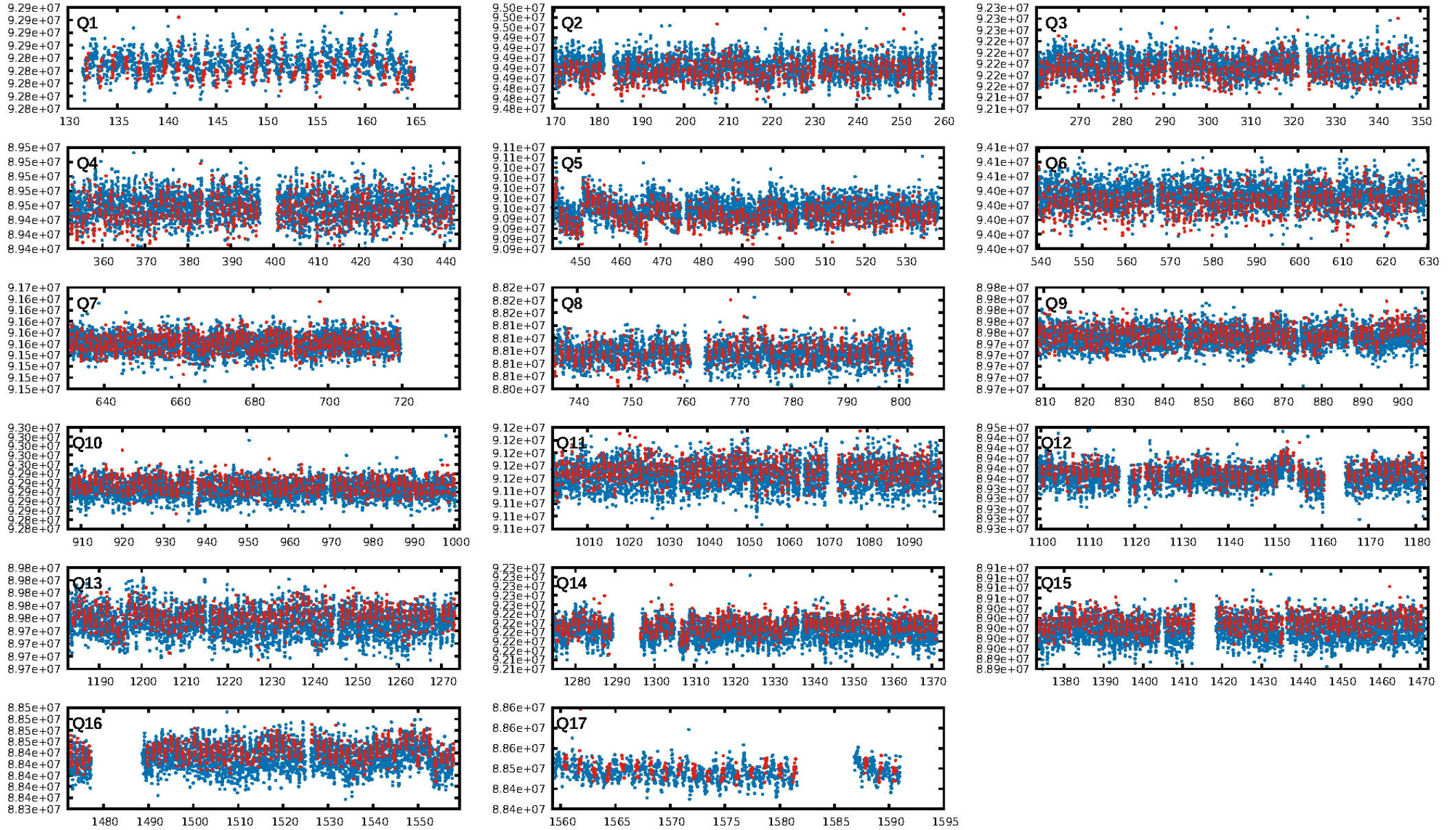
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.64e-16
RollingBand-fgt: 1.00 [974/974]
GhostDiagnostic-chr: 4.183
Centroid-sig: 0.0%
Centroid-so: 2.087 arcsec [2.78σ]
OotOffset-rm: 0.041 arcsec [0.14σ]
KicOffset-rm: 0.056 arcsec [0.40σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.35 [6/17]
DiffImageOverlap-fno: 0.00 [0/17]

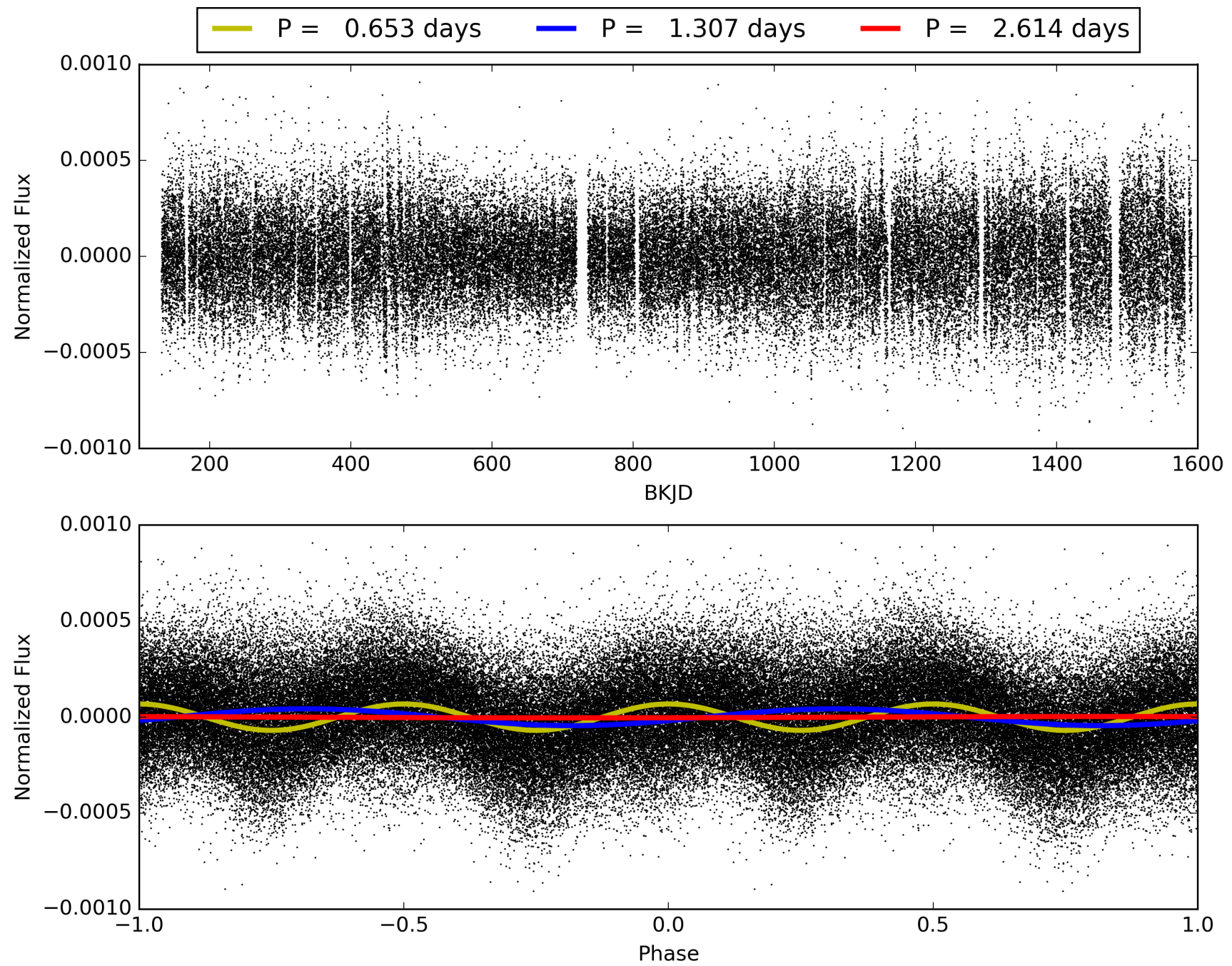
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 14:48:33 Z

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

TCE 007041634-03, PDC Light Curves

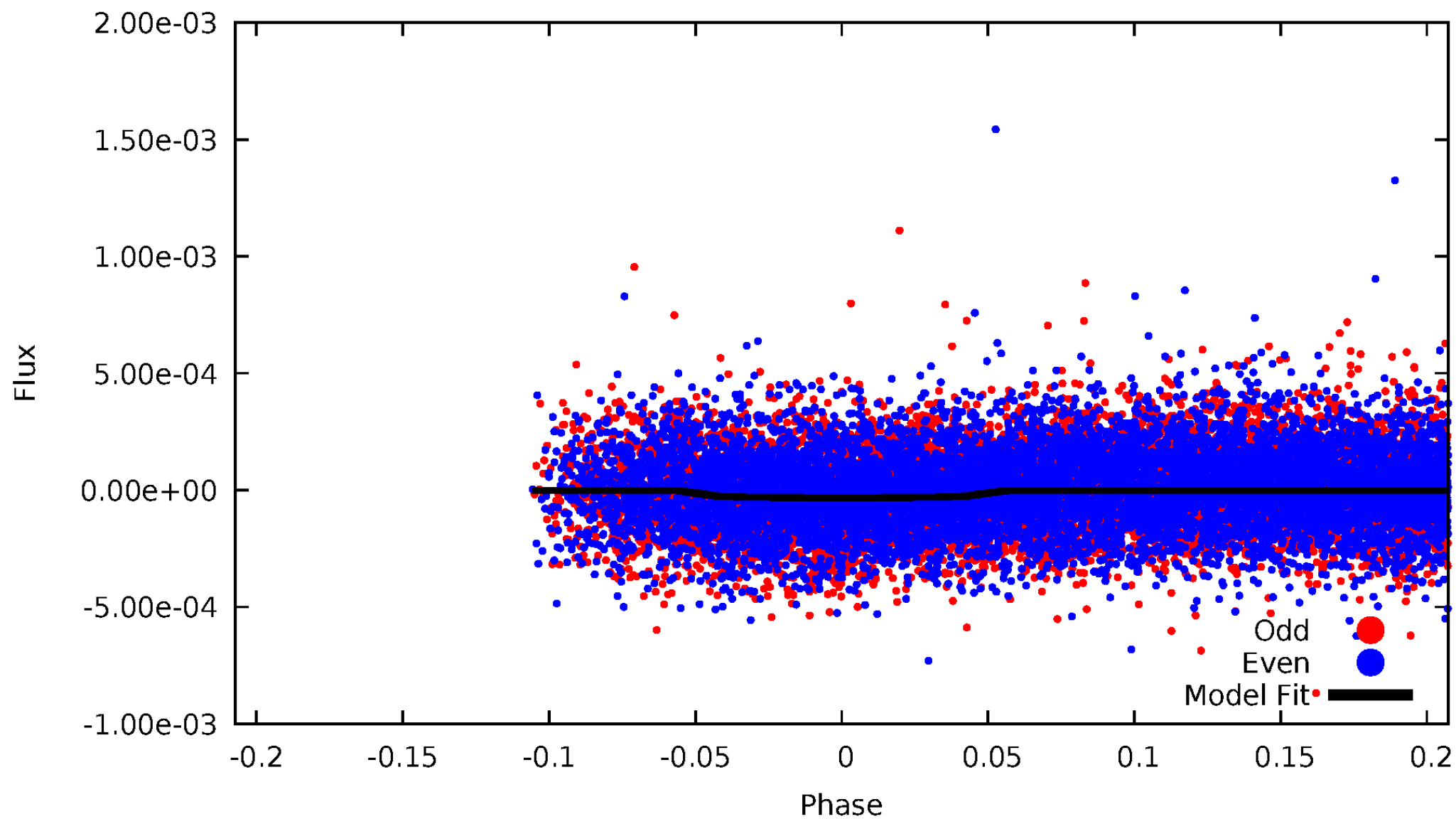


TCE 007041634-03



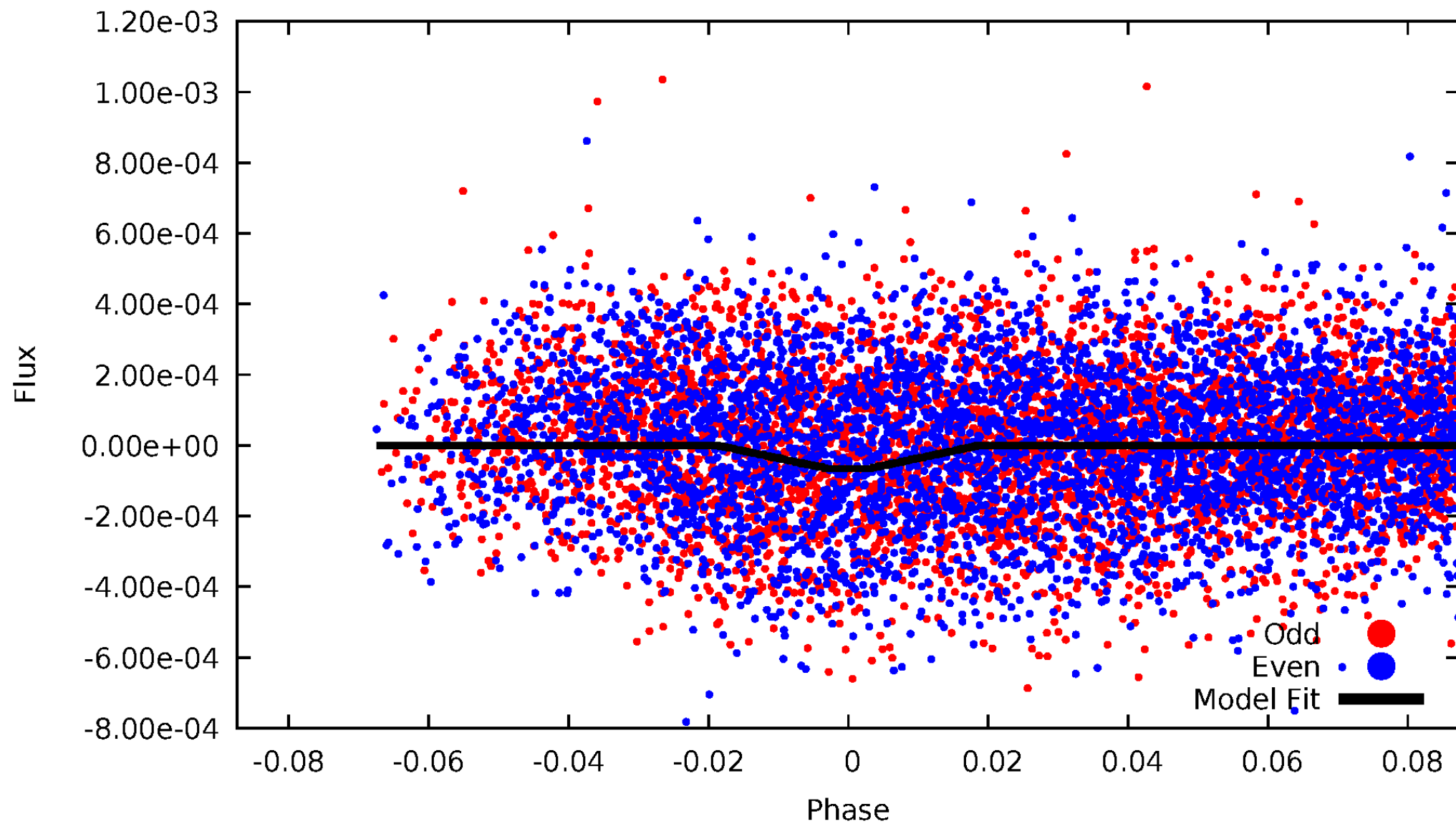
DV Odd/Even

TCE 007041634-03

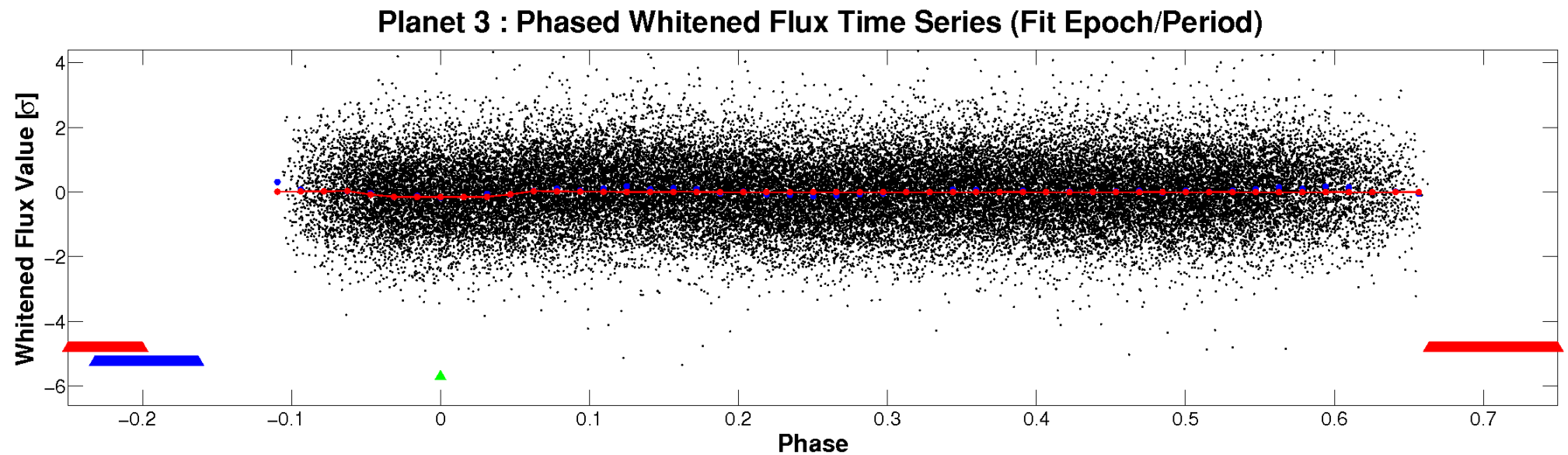
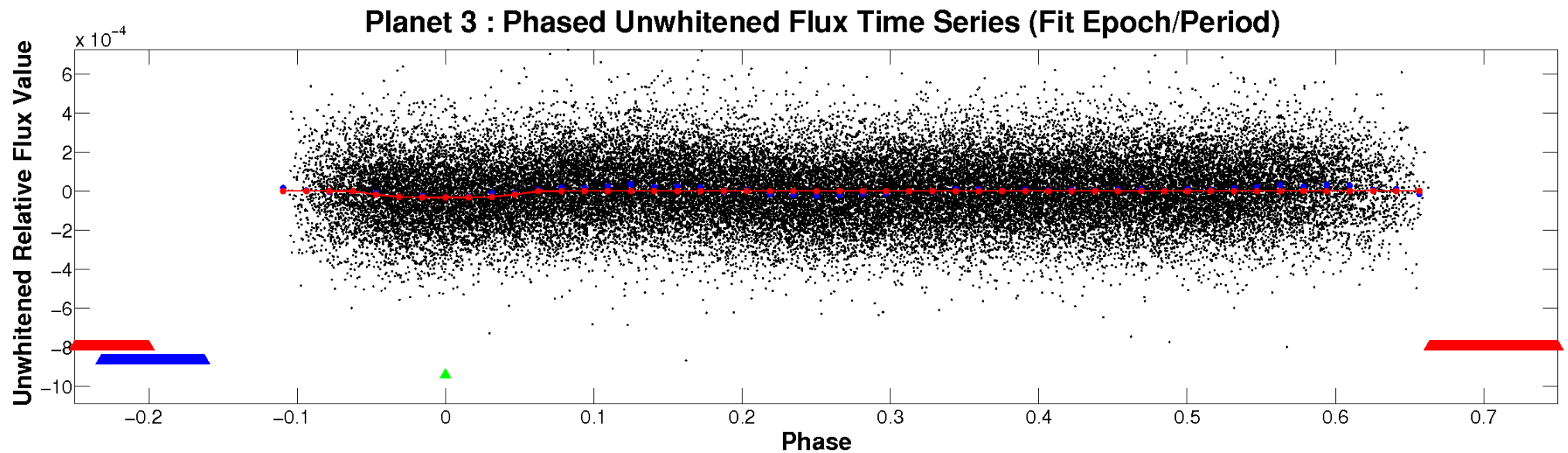


ALT Odd/Even

TCE 007041634-03

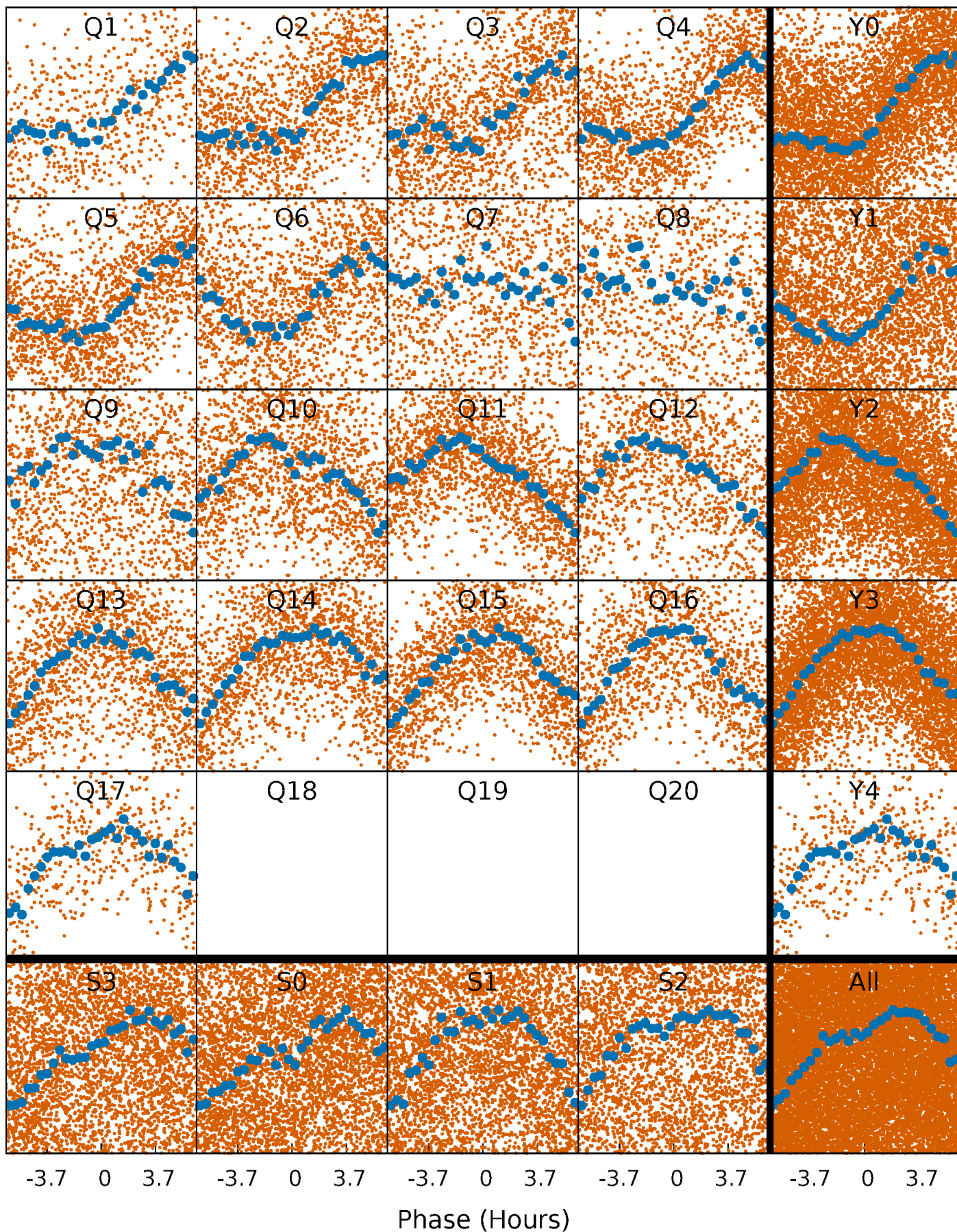


Non-Whitened Vs. Whitened Light Curve



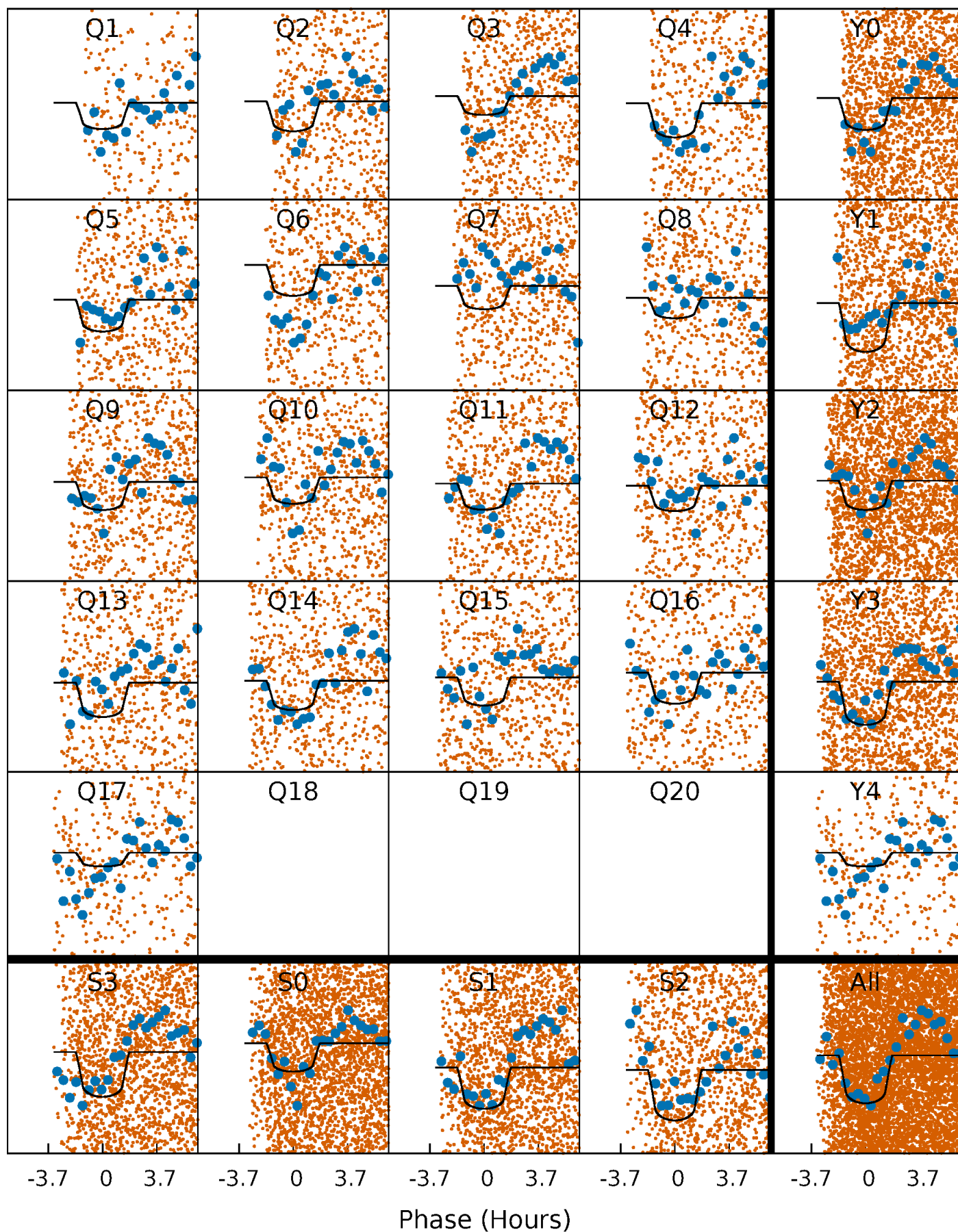
PDC Quarter-Phased Transit Curves

TCE 007041634-03 P= 1.306909 Days $T_0=131.973512$ (BKJD)



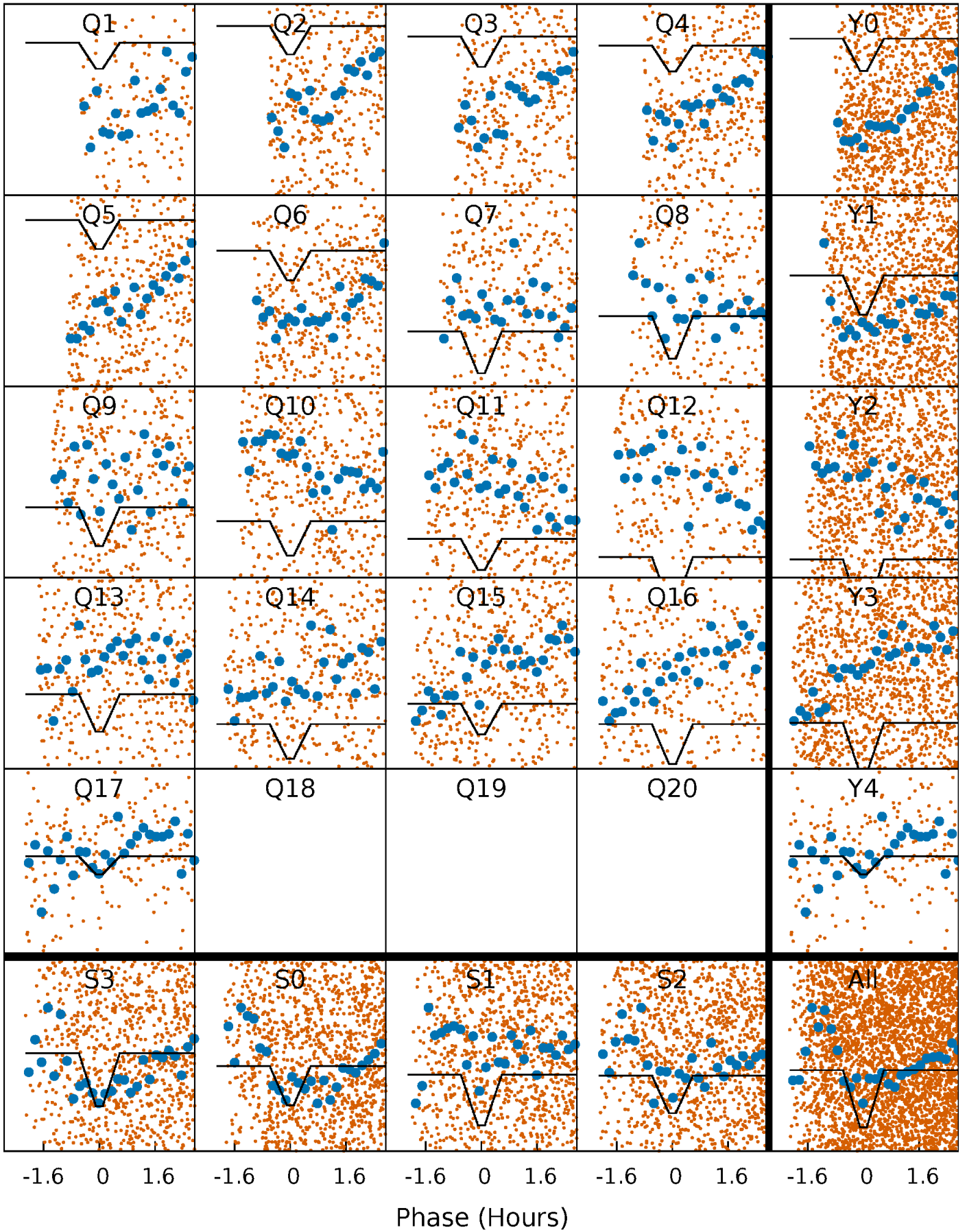
DV Quarter-Phased Transit Curves

TCE 007041634-03 P= 1.306909 Days $T_0=131.973512$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

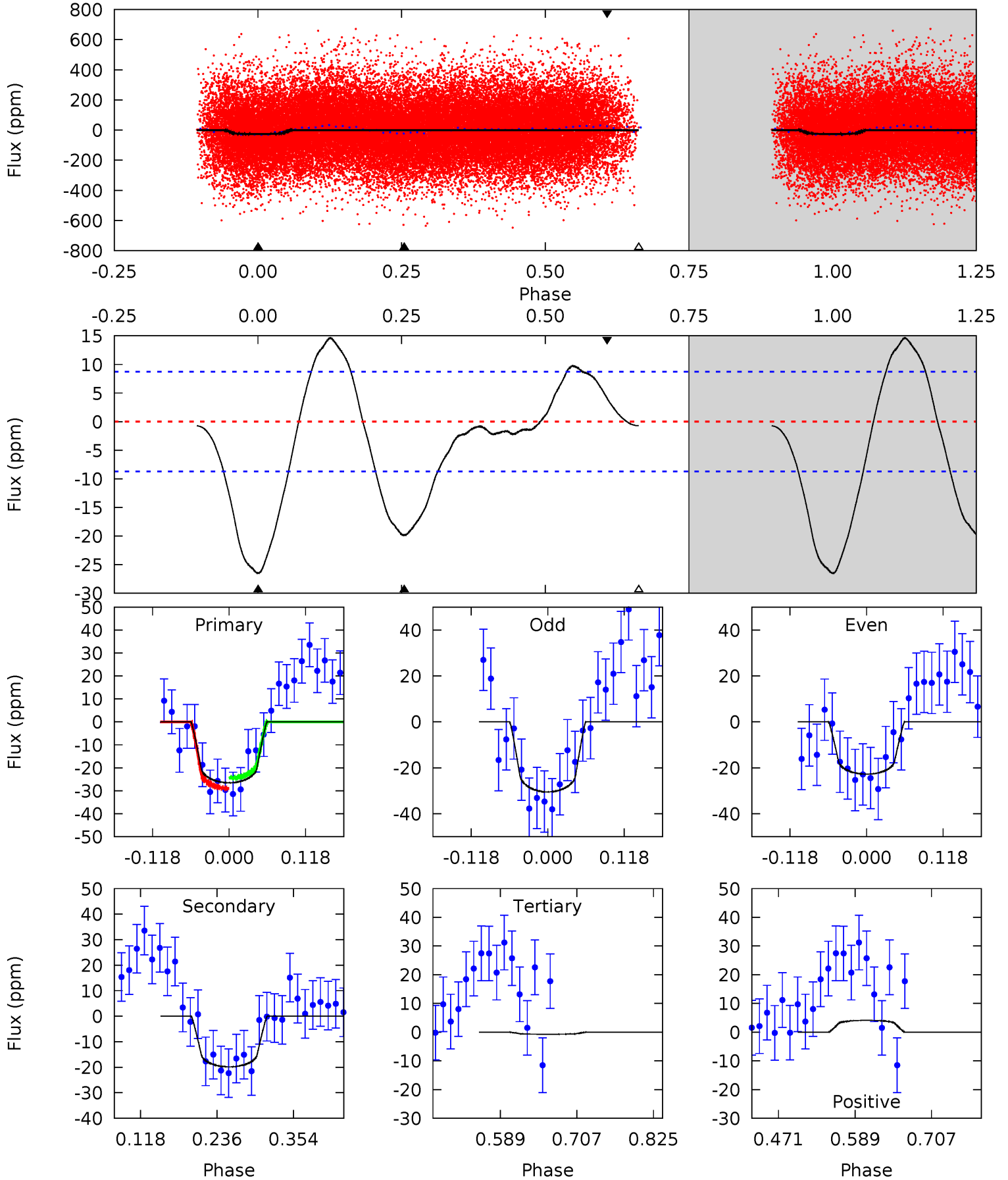
TCE 007041634-03 P= 1.306889 Days $T_0=131.945347$ (BKJD)



DV Model-Shift Uniqueness Test

007041634-03, P = 1.306909 Days, E = 130.666603 Days

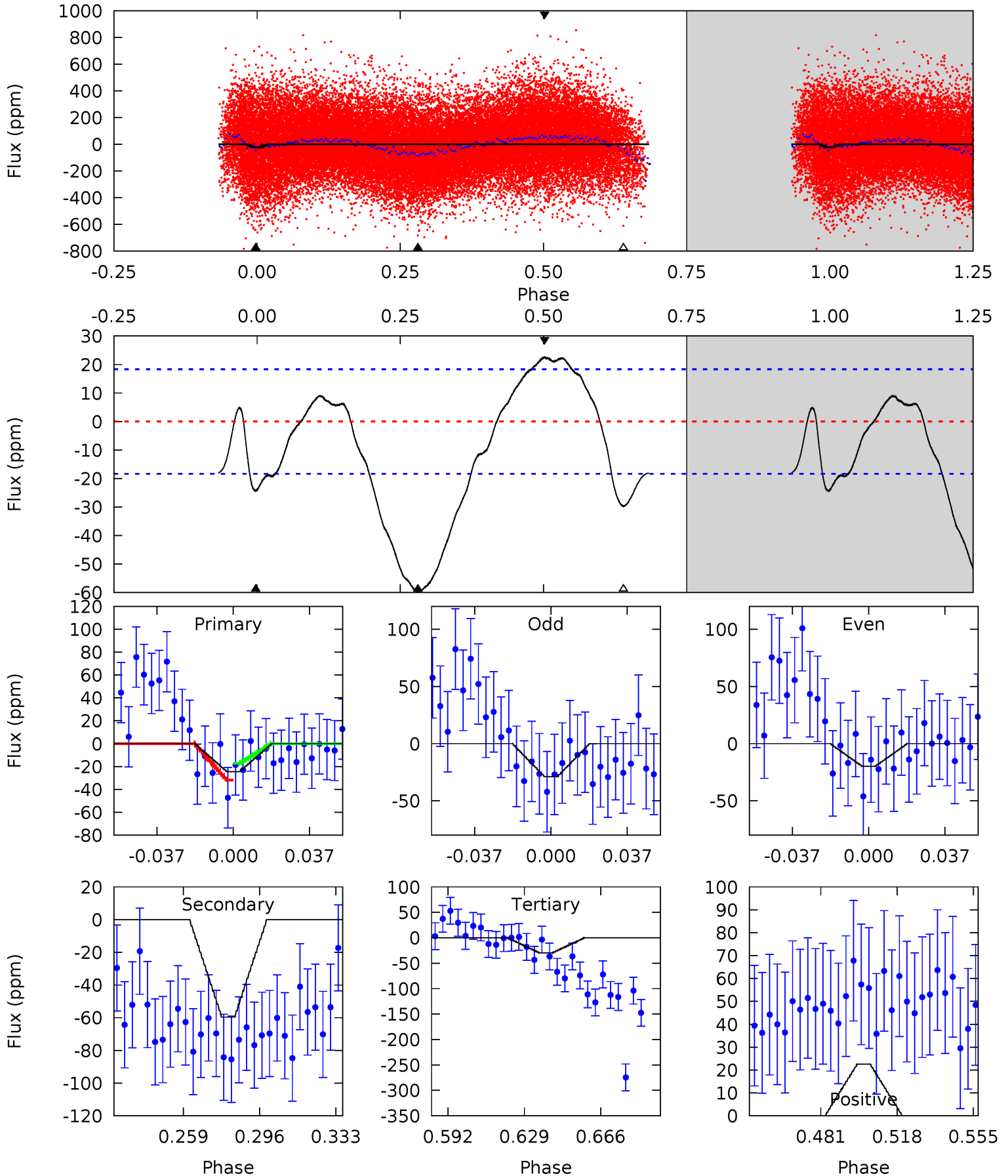
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.8	10.3	0.37	2.14	4.53	1.56	2.71	13.4	11.7	9.95	8.19	2.02	0.83	0.36	1.19



Alt Model-Shift Uniqueness Test

007041634-03, P = 1.306889 Days, E = 130.638458 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.34	15.5	7.74	5.88	4.77	2.09	5.06	-1.39	0.46	7.78	9.64	1.17	1.72	0.27	1.89



Stellar Parameters For KIC 007041634

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6735^{+185}_{-278}	$4.125^{+0.144}_{-0.192}$	$0.360^{+0.100}_{-0.350}$	$1.788^{+0.565}_{-0.377}$	$1.557^{+0.197}_{-0.241}$	$0.383^{+0.258}_{-0.197}$
	+3%/-4%	+3%/-5%	+28%/-97%	+32%/-21%	+13%/-15%	+67%/-51%
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 007041634-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-20 ± 2	$1.17^{+0.50}_{-0.43}$	3368^{+255}_{-222}	5678^{+1464}_{-787}	$5.658^{+8.617}_{-2.767}$
Alt.	-60 ± 4	$1.58^{+0.52}_{-0.45}$	3379^{+287}_{-232}	6509^{+1217}_{-813}	$9.559^{+8.859}_{-4.081}$

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

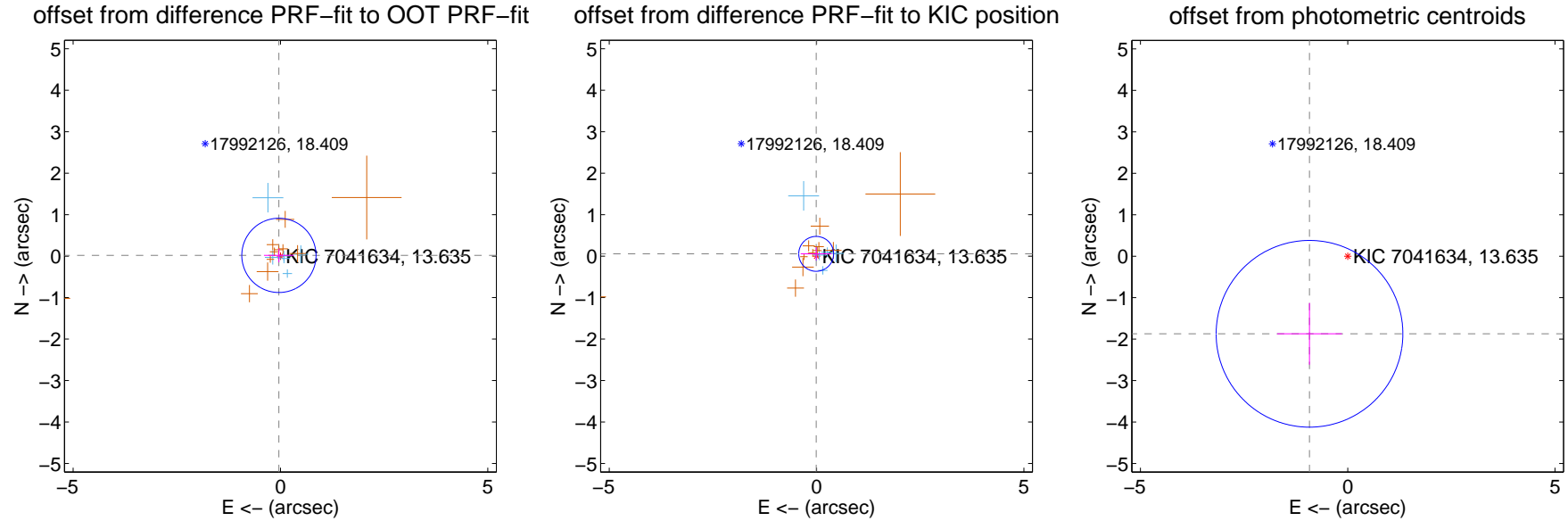
DV Centroid Data

Supplemental centroid analysis for 007041634-03. Kepler magnitude: 13.63. Transit SNR 10.81

There are 6 quarters with good PRF difference image offsets

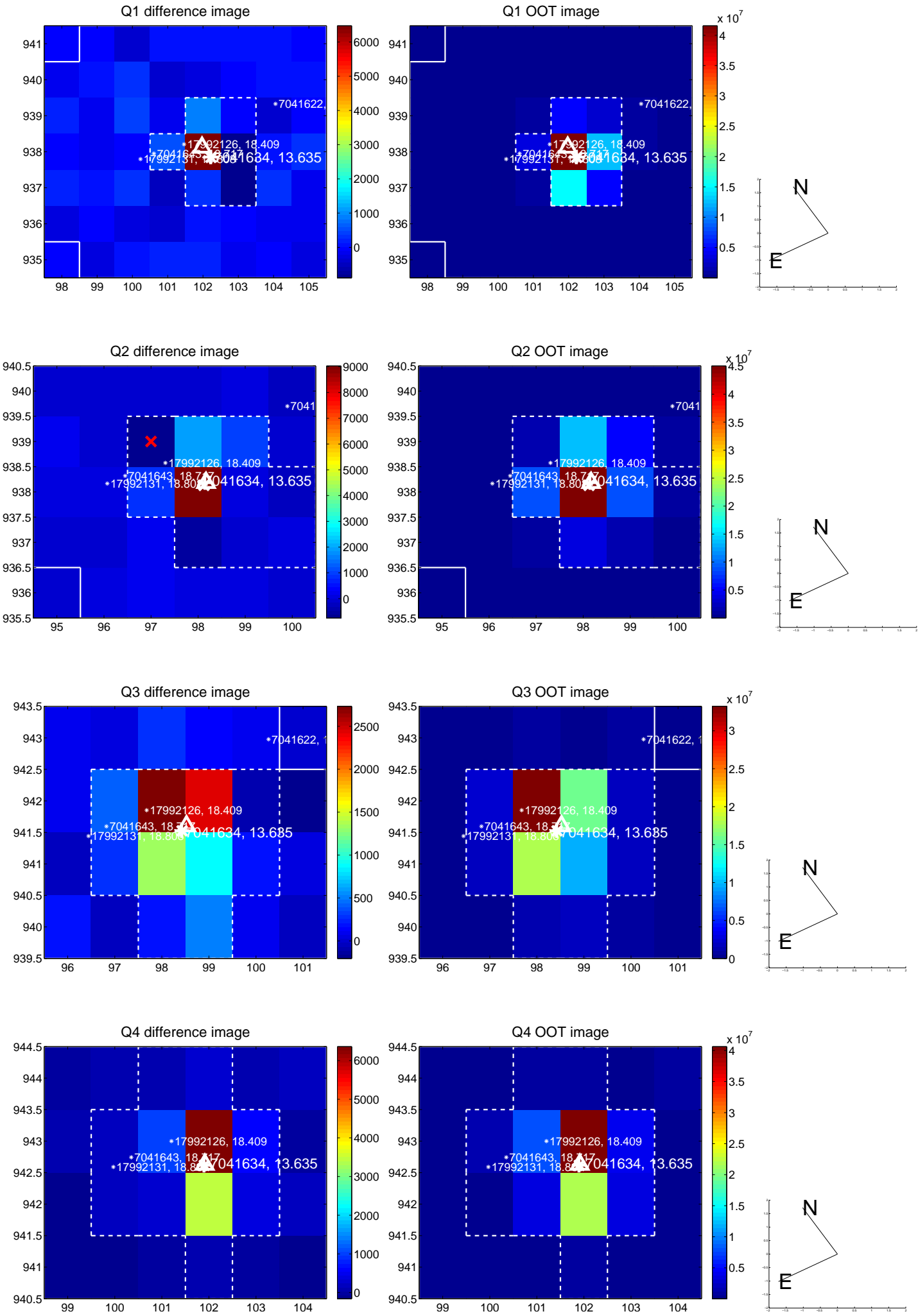
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.041 ± 0.298	0.14	0.037 ± 0.360	0.018 ± 0.164
PRF-fit source offset from KIC position	0.056 ± 0.140	0.40	0.009 ± 0.374	0.055 ± 0.162
photometric centroid source offset	2.09 ± 0.75	2.78	0.92 ± 0.78	-1.87 ± 0.74

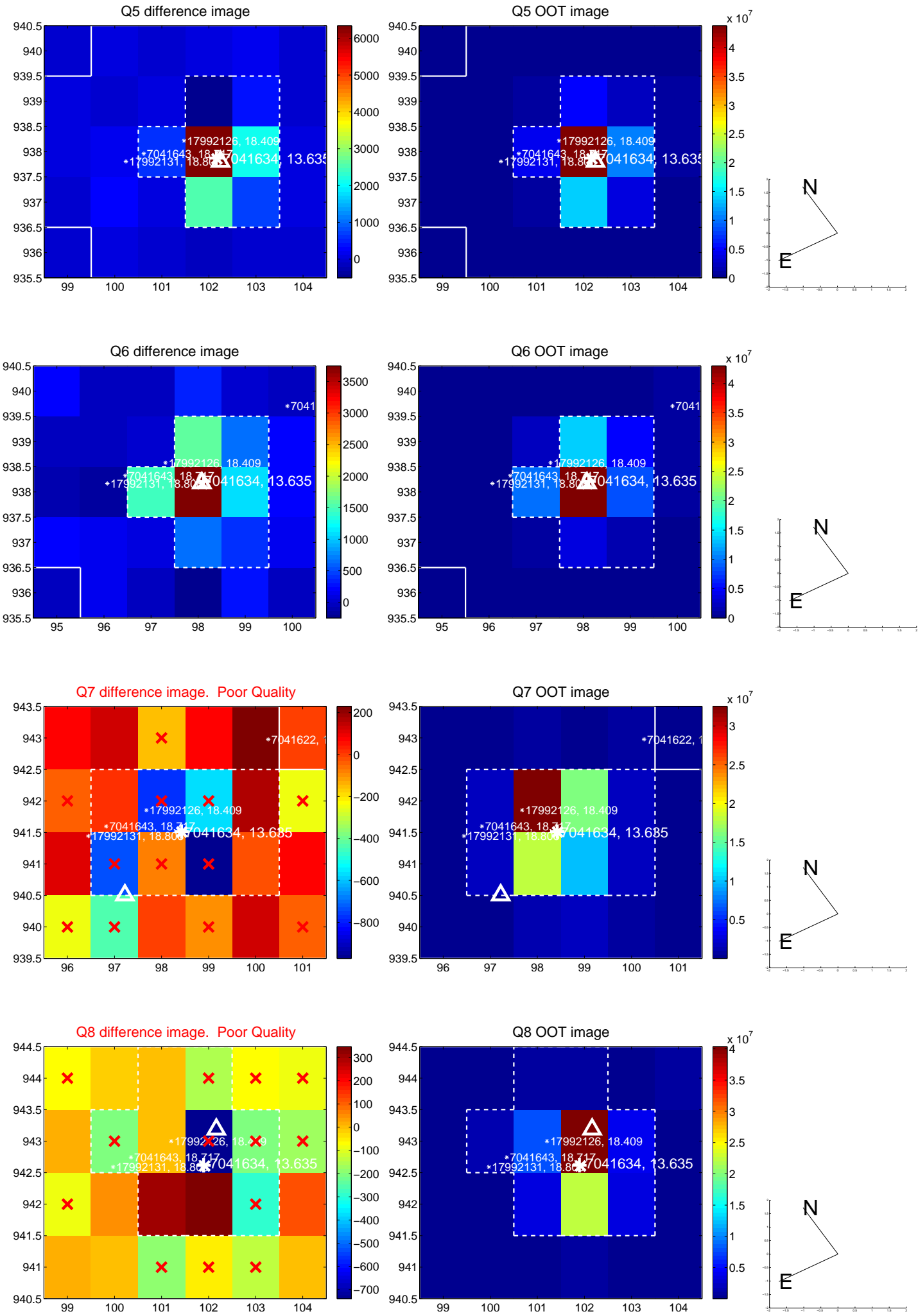


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

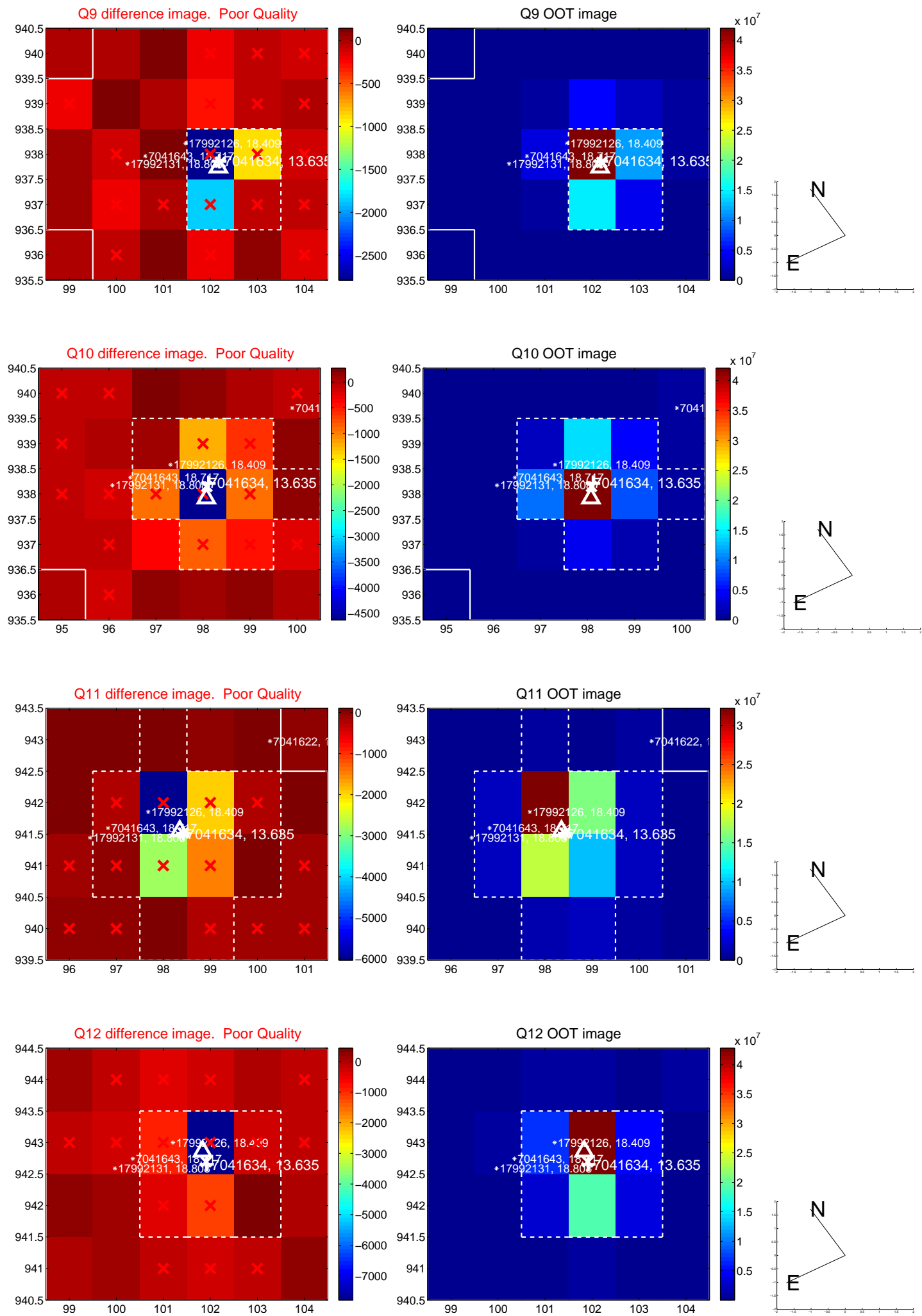
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



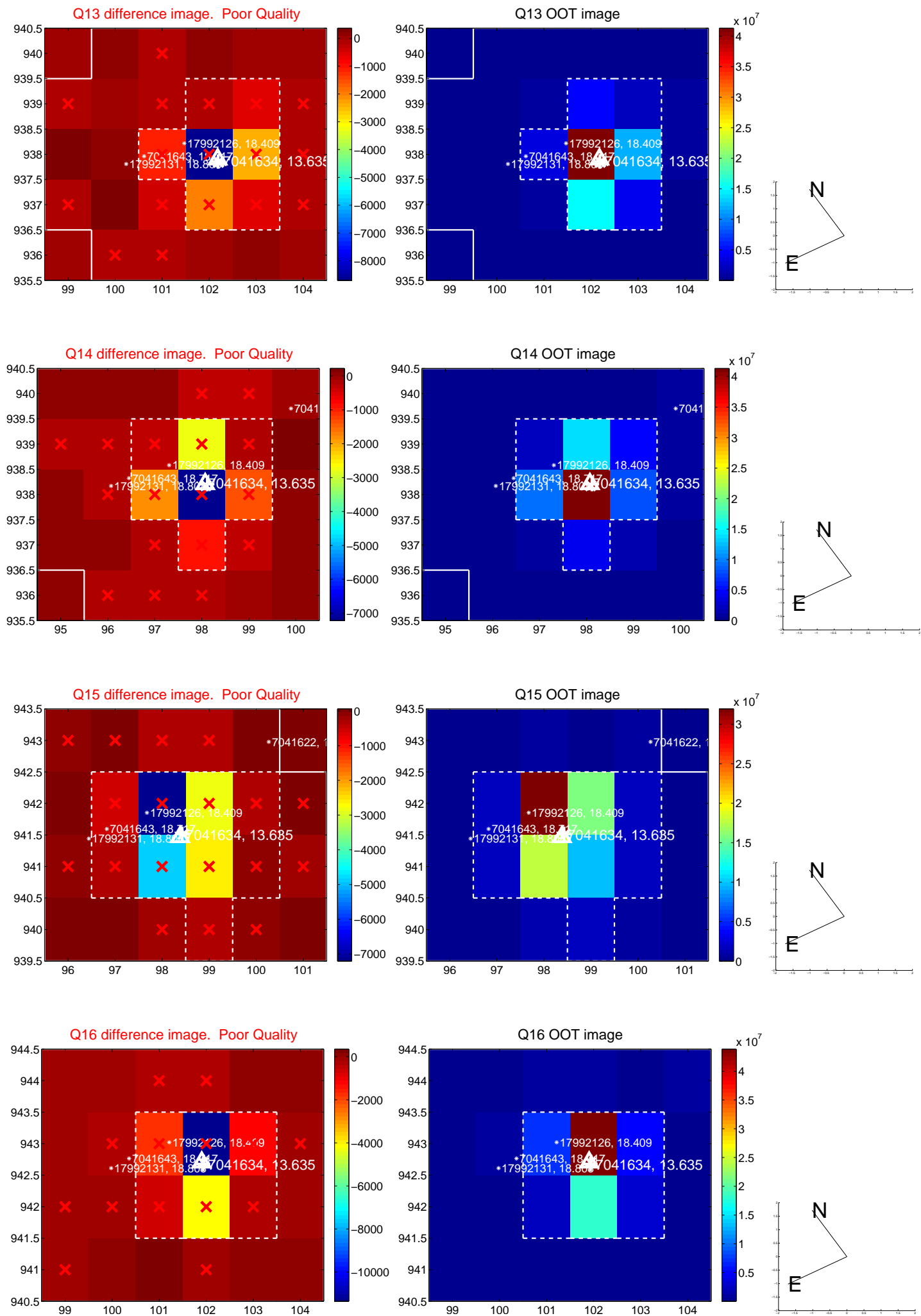
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



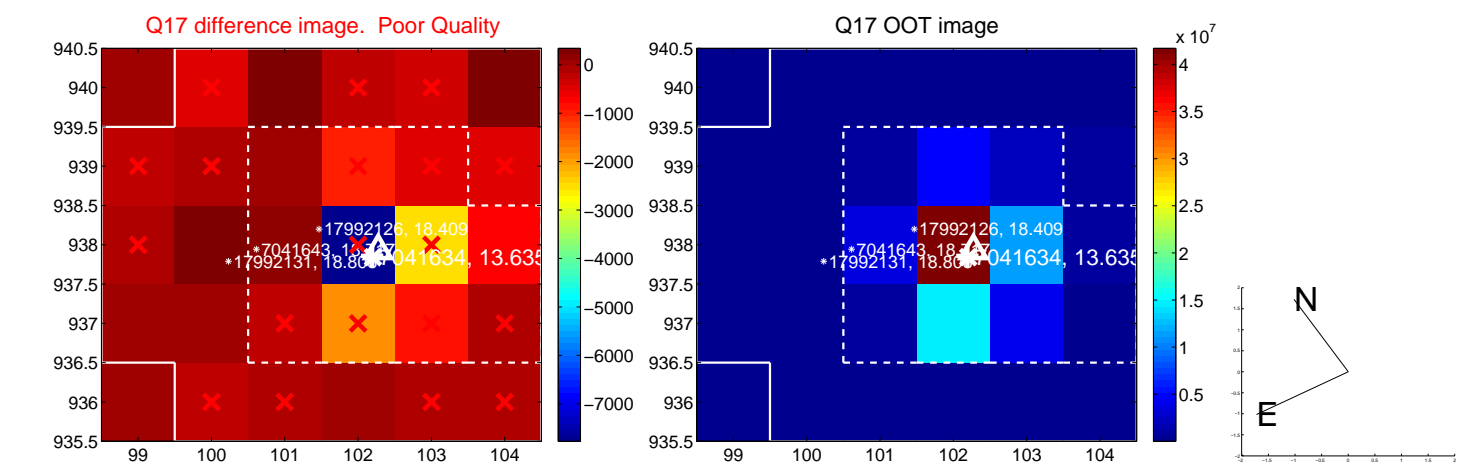
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



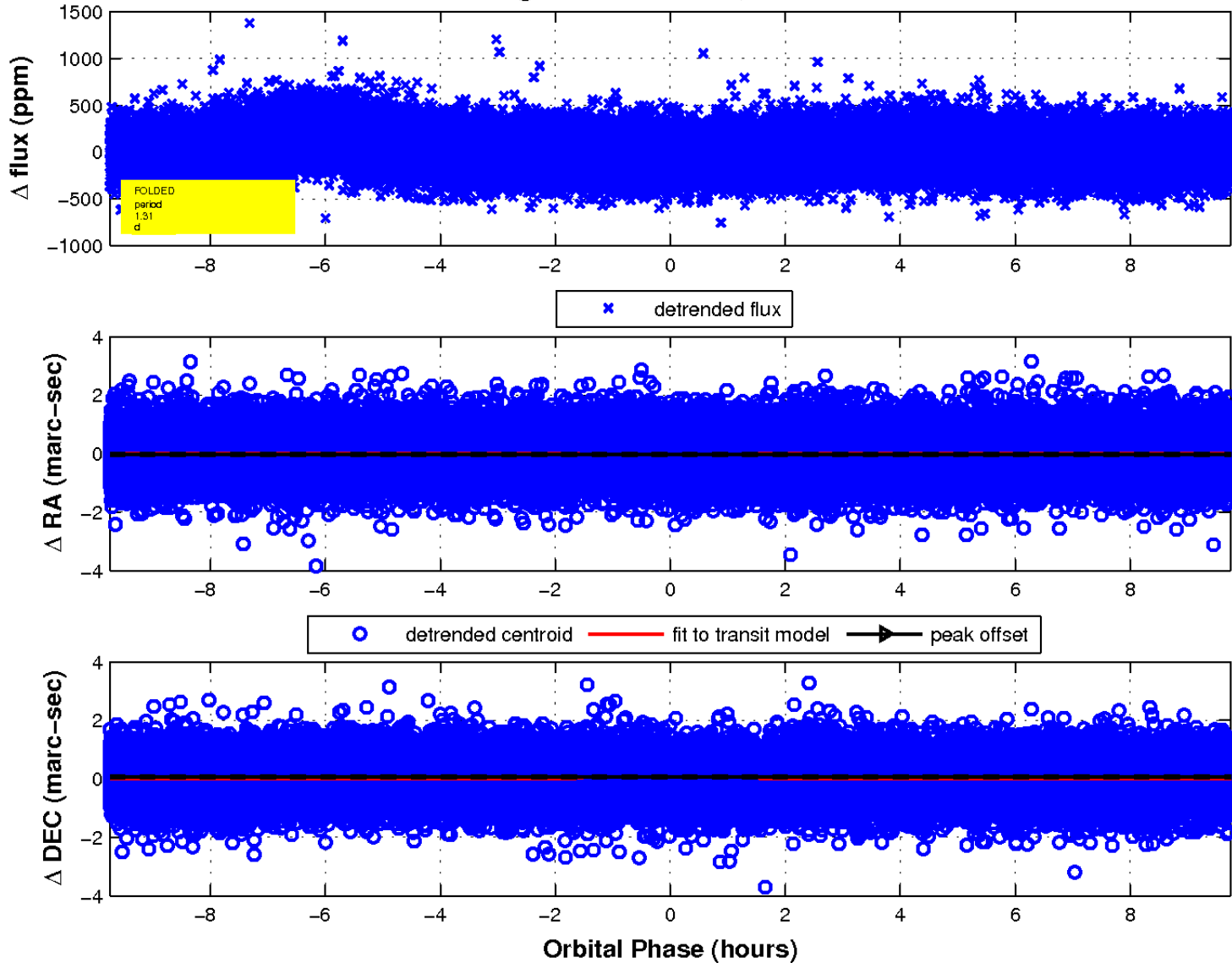
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

