

KIC 006214033

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})
006214033-01	OBS	No	0.934637	132.347948	6.5	7.043	7.6	10.3	3.15	8340	0.85	76367.48
006214033-02	OBS	No	45.953452	155.546616	288.1	2.000	14.7	-1.0	3.15	8340	5.42	423.98
006214033-03	OBS	No	12.501770	141.631967	113.2	1.389	18.4	16.7	3.15	8340	3.40	2405.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006214033-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006214033-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
006214033-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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

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

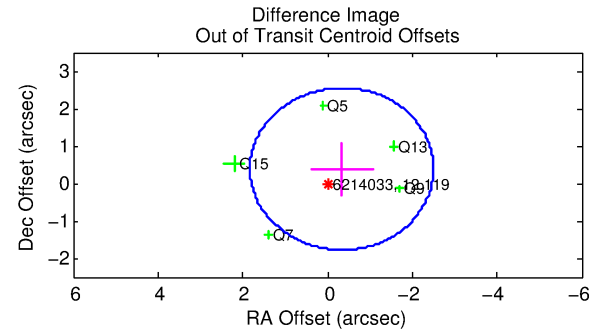
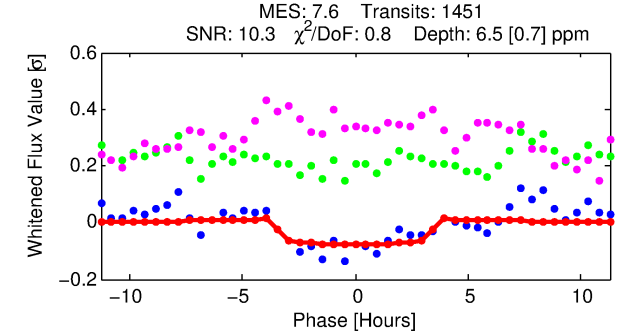
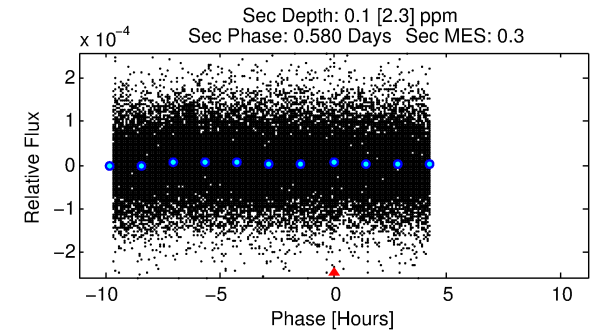
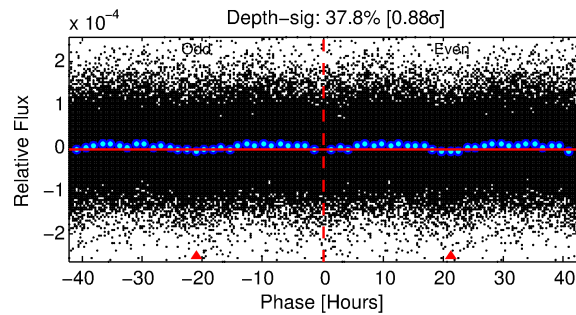
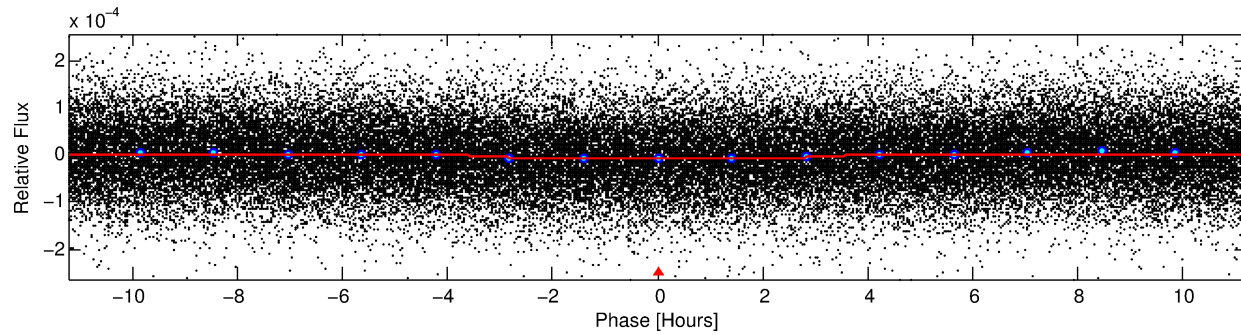
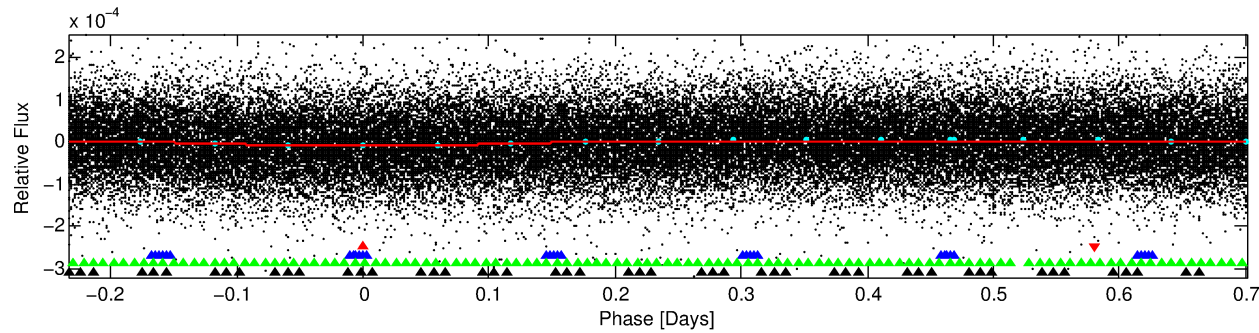
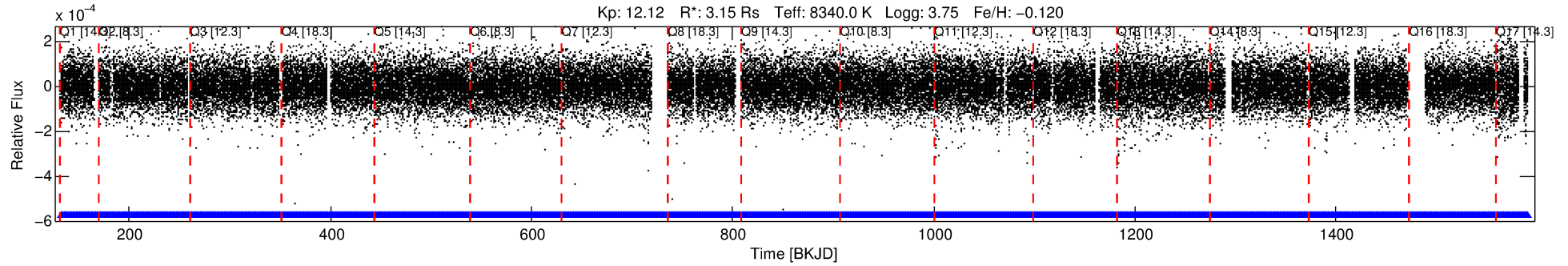
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006214033-01

No Significant Match Found

DV One-Page Summary

KIC: 6214033 Candidate: 1 of 4 Period: 0.935 d



DV Fit Results:

Period = 0.93464 [0.00002] d
Epoch = 132.3479 [0.0061] BKJD
Rp/R* = 0.0025 [0.0010]
a/R* = 1.13 [0.56]
b = 0.63 [2.27]
Seff = 76367.48 [58512.48]
Teq = 4239 [812] K
Rp = 0.85 [0.52] Re
a = 0.0237 [0.0109] AU
Ag = 0.03 [1.00] [-0.97 σ]
Teffp = 2711 [23234] K [-0.07 σ]

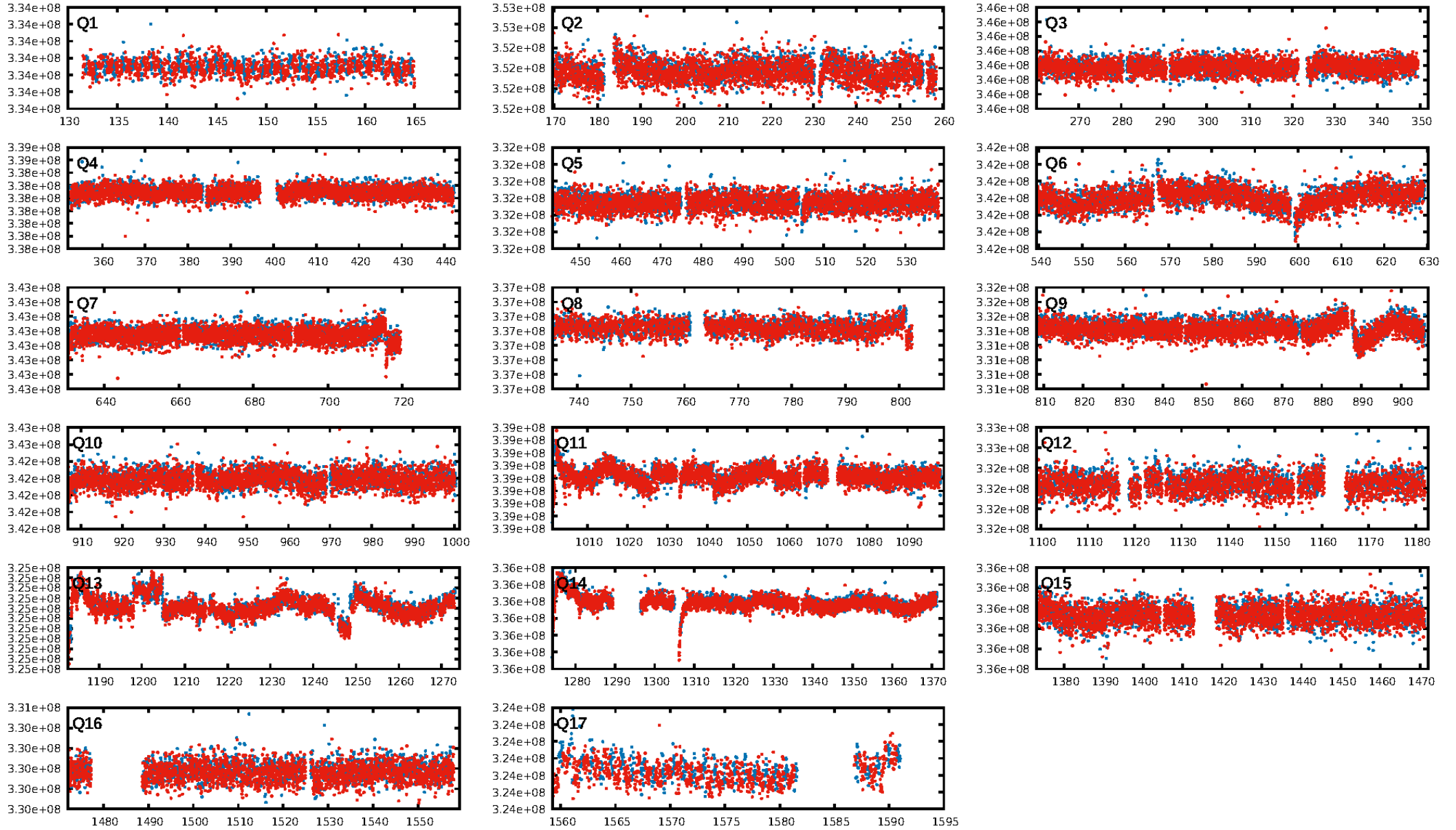
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [38.67 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 9.18e-15
RollingBand-fgt: 1.00 [1386/1386]
GhostDiagnostic-chr: 2.001
Centroid-sig: 8.6%
Centroid-so: 1.909 arcsec [1.72 σ]
OotOffset-rm: 0.509 arcsec [0.71 σ]
KicOffset-rm: 0.527 arcsec [0.77 σ]
OotOffset-st: 0/2/0/3 [5]
KicOffset-st: 0/2/0/3 [5]
DiffImageQuality-fgm: 1.00 [5/5]
DiffImageOverlap-fno: 1.00 [17/17]

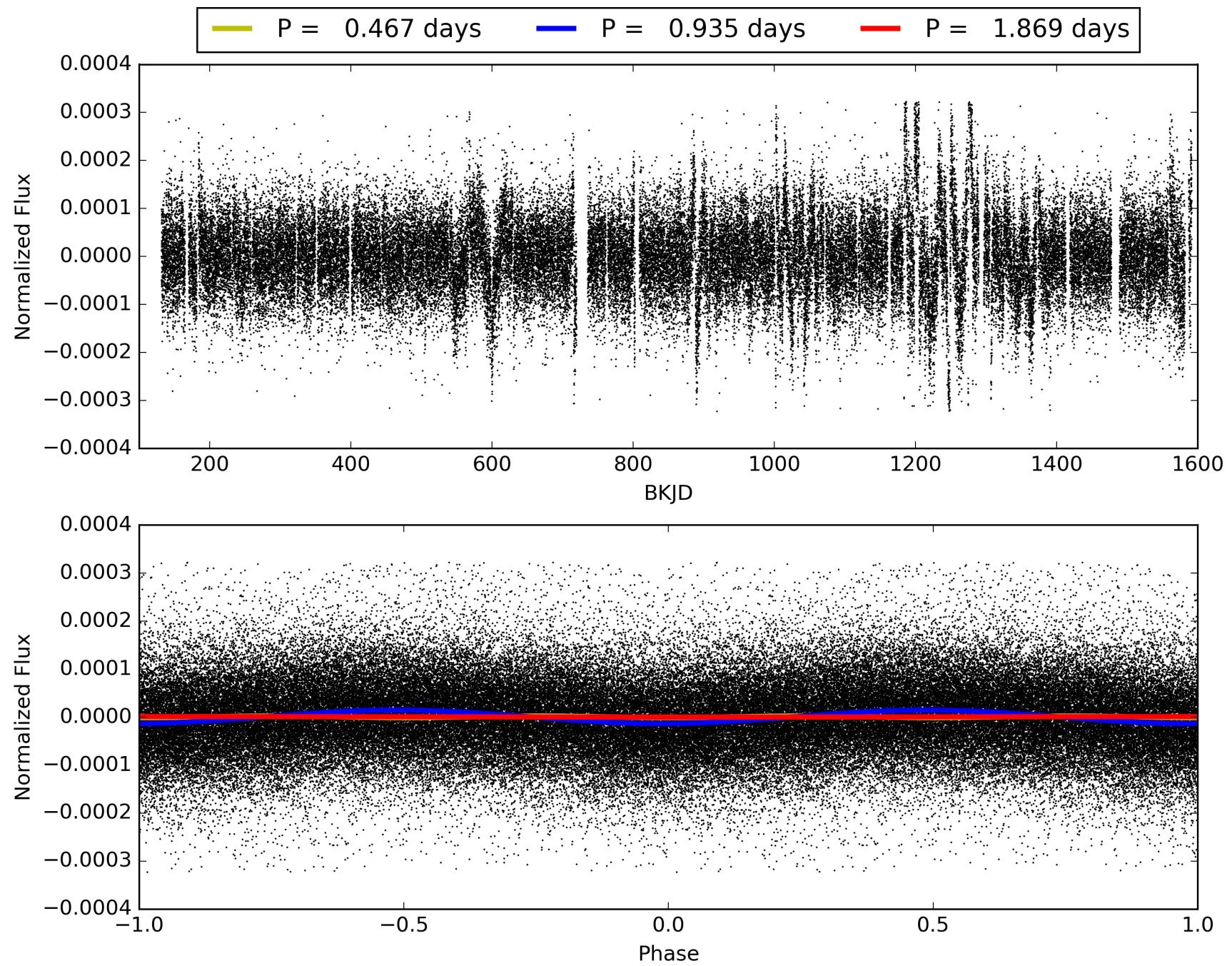
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:05:33 Z

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

TCE 006214033-01, PDC Light Curves

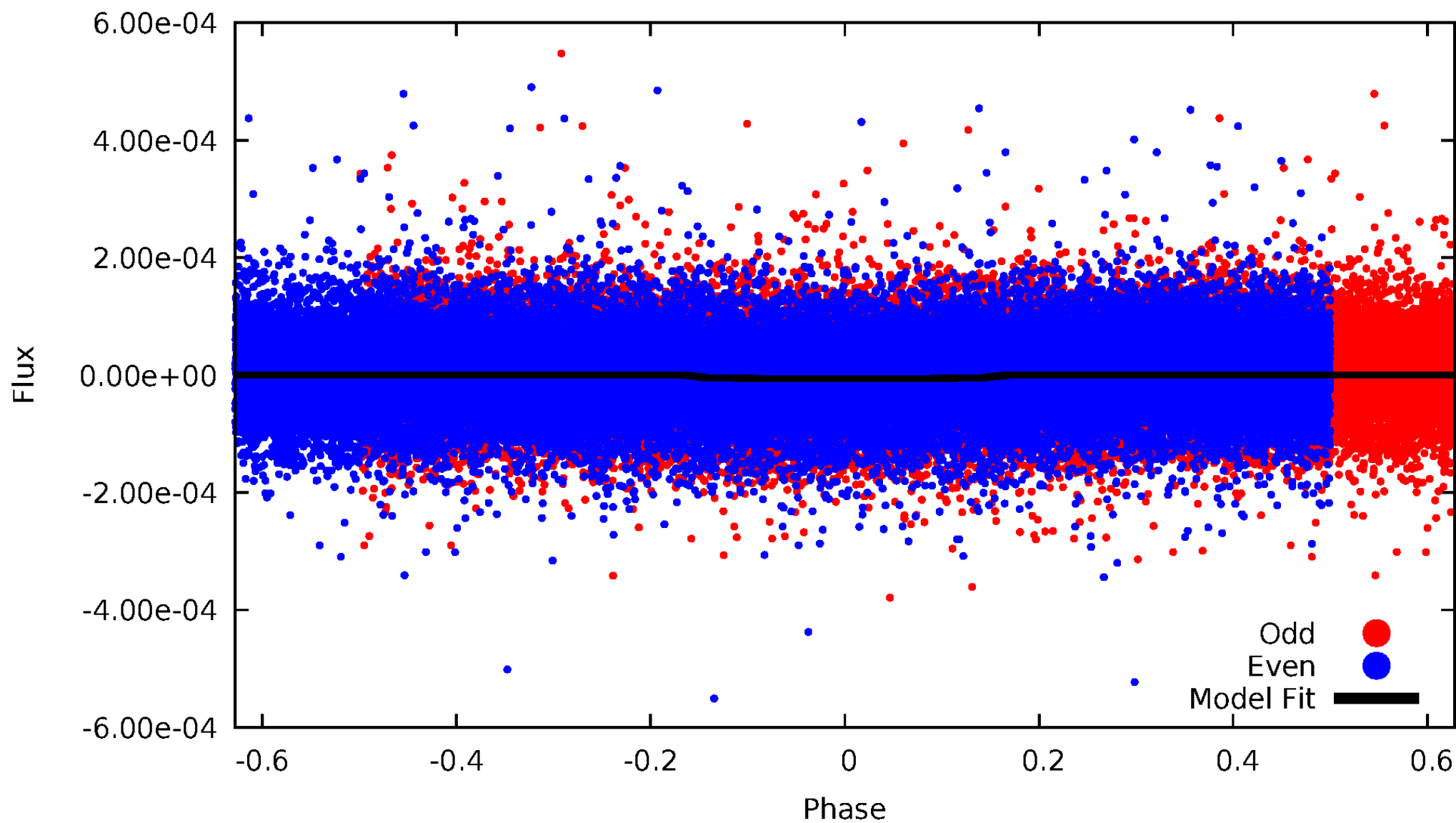


TCE 006214033-01



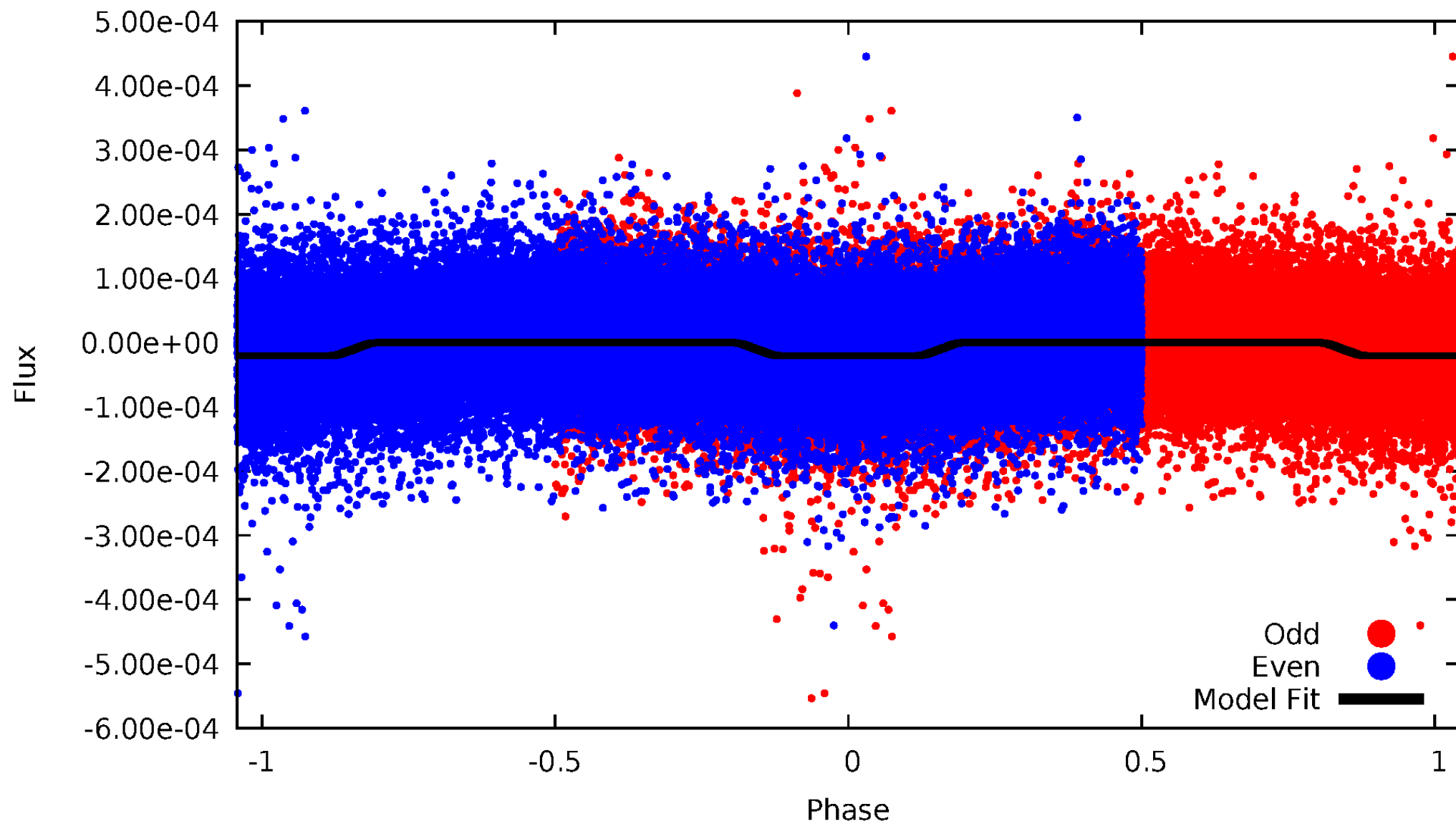
DV Odd/Even

TCE 006214033-01

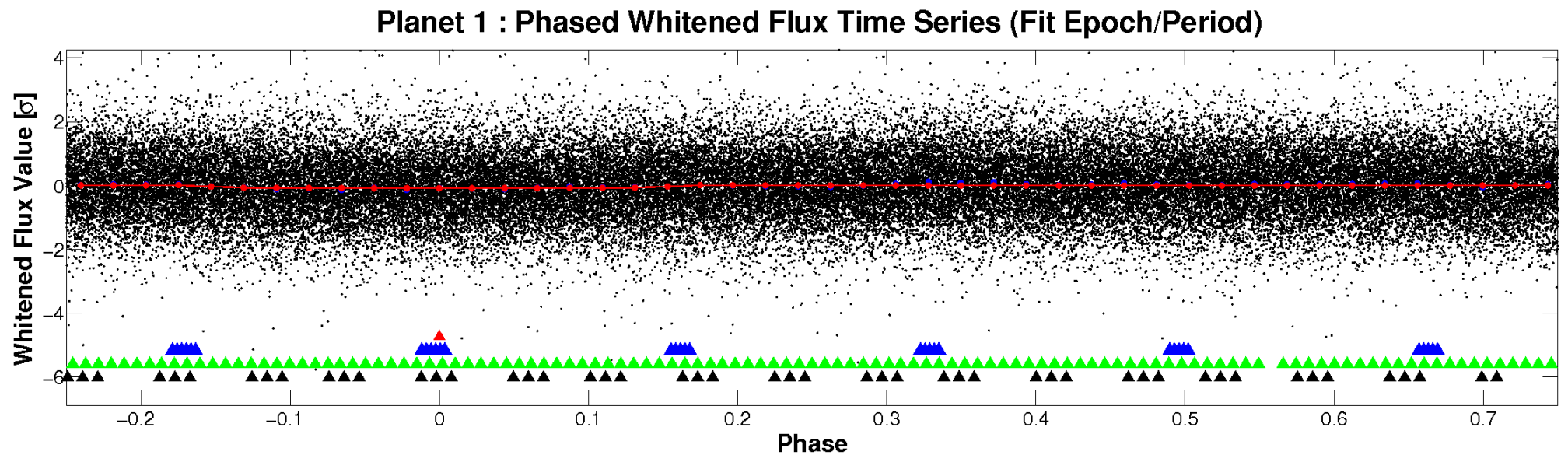
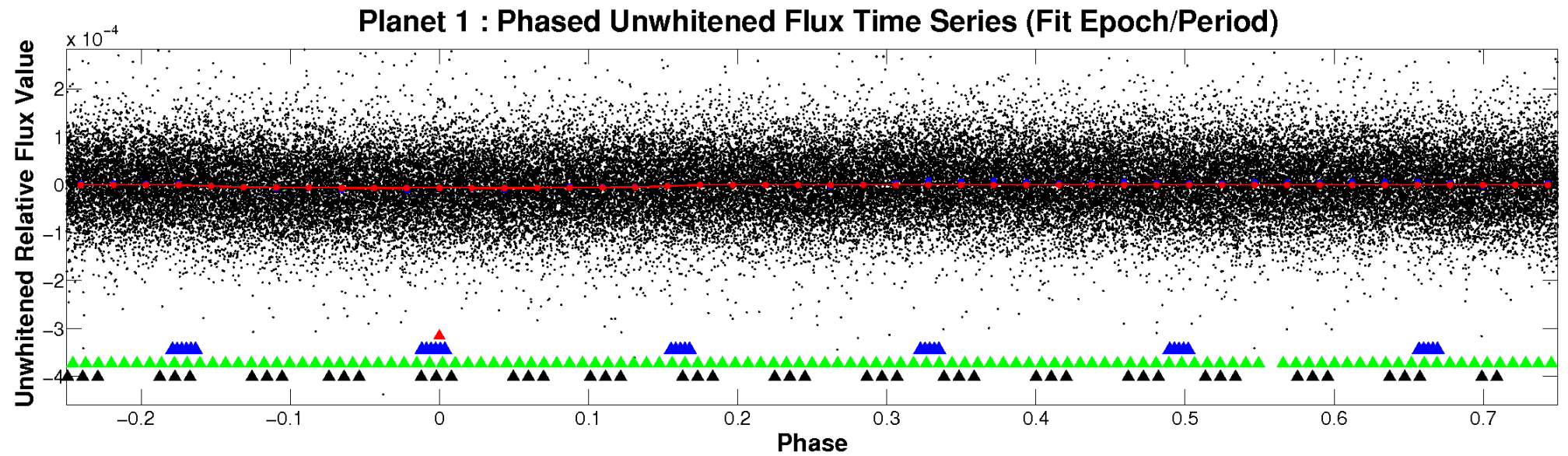


ALT Odd/Even

TCE 006214033-01

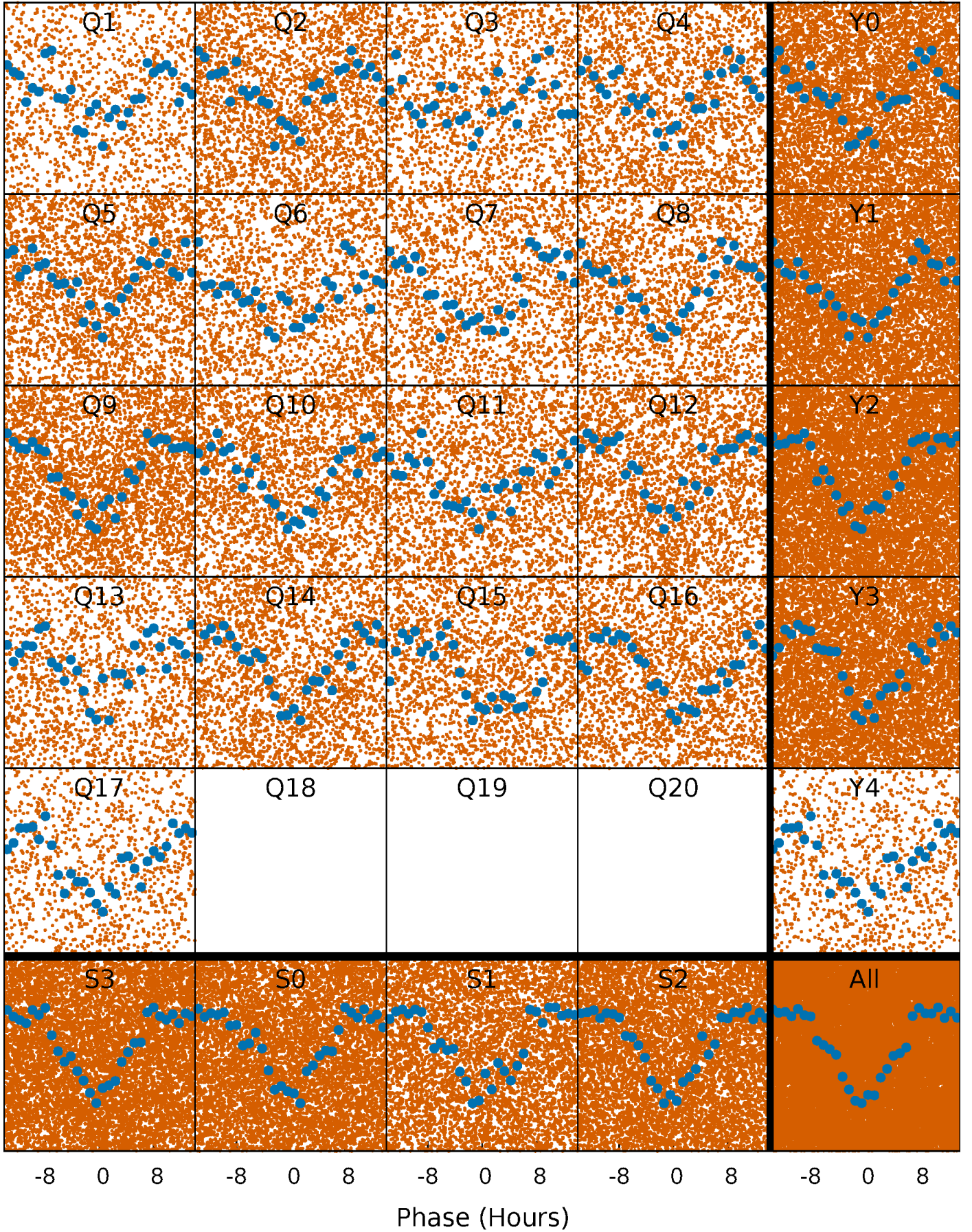


Non-Whitened Vs. Whitened Light Curve



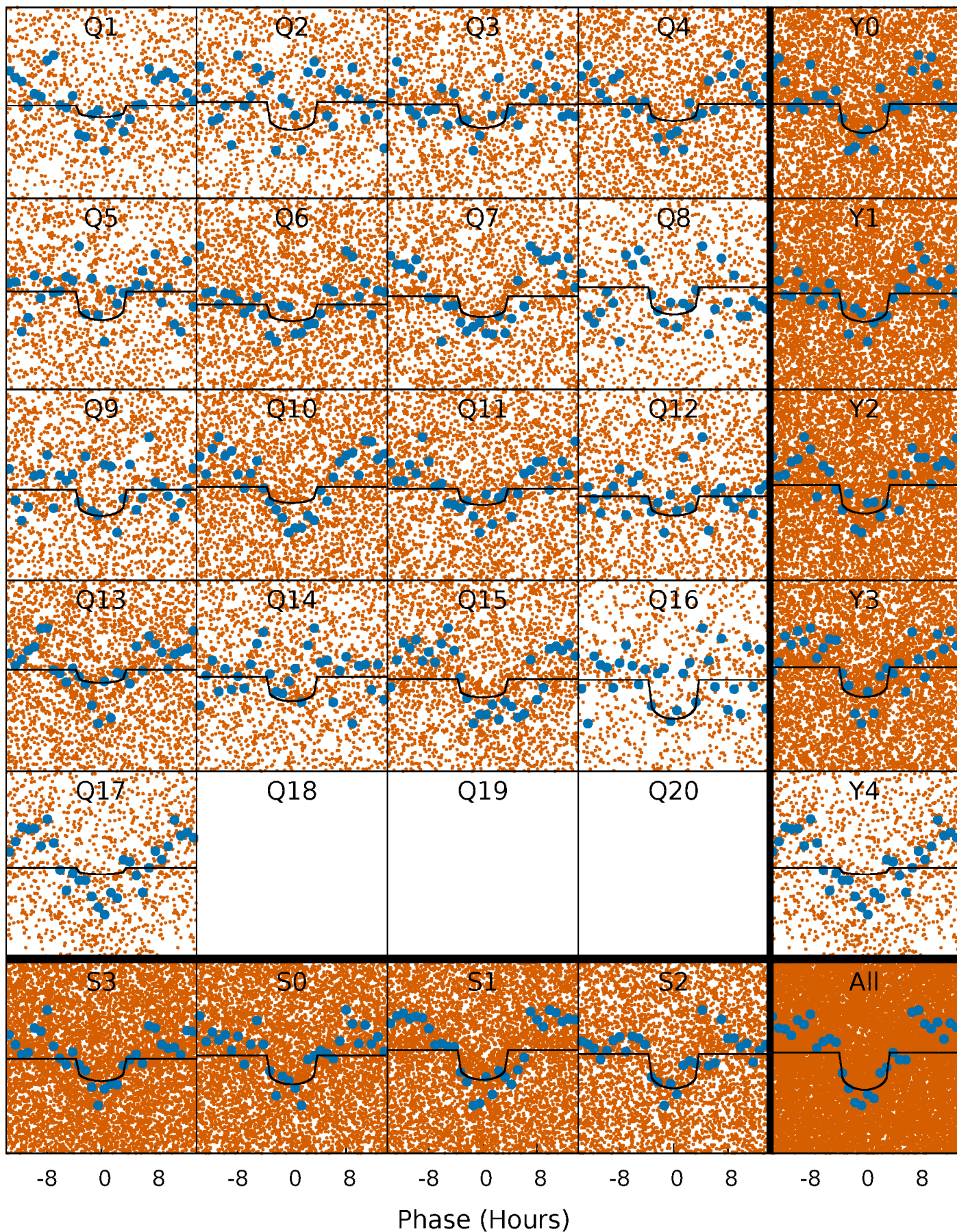
PDC Quarter-Phased Transit Curves

TCE 006214033-01 P= 0.934637 Days $T_0=132.347948$ (BKJD)



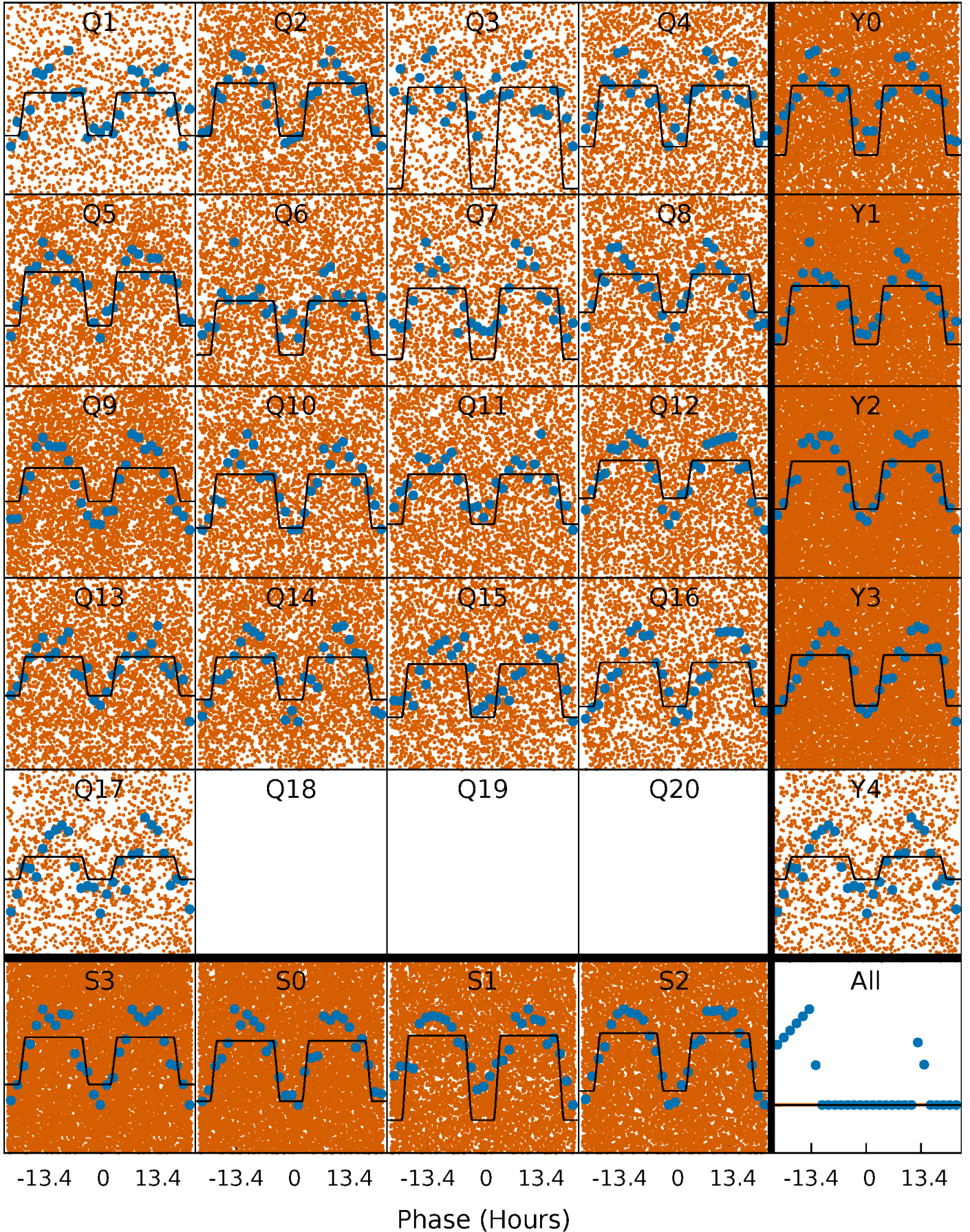
DV Quarter-Phased Transit Curves

TCE 006214033-01 P= 0.934637 Days $T_0=132.347948$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

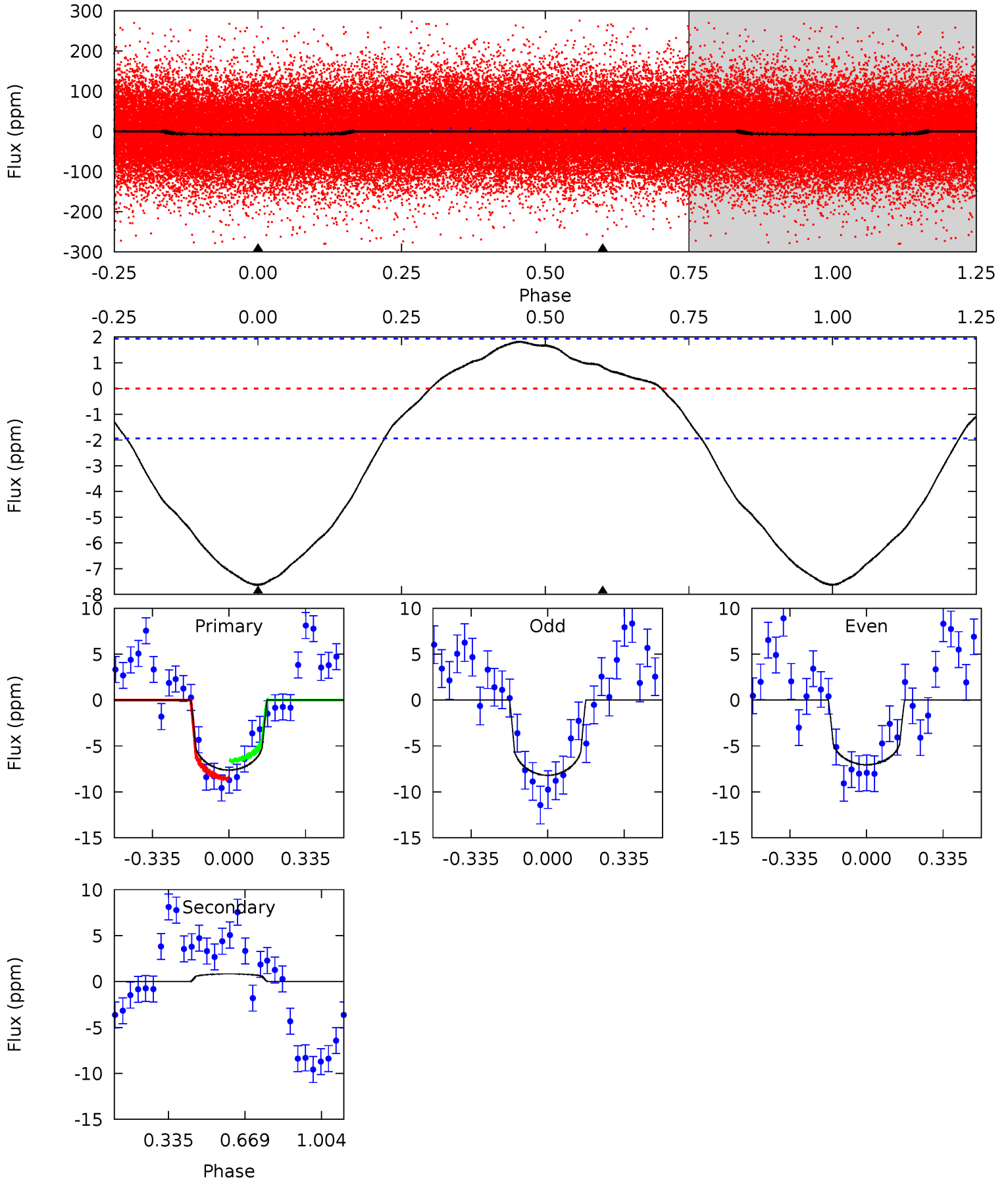
TCE 006214033-01 P= 0.934636 Days $T_0=132.336008$ (BKJD)



DV Model-Shift Uniqueness Test

006214033-01, P = 0.934637 Days, E = 131.413311 Days

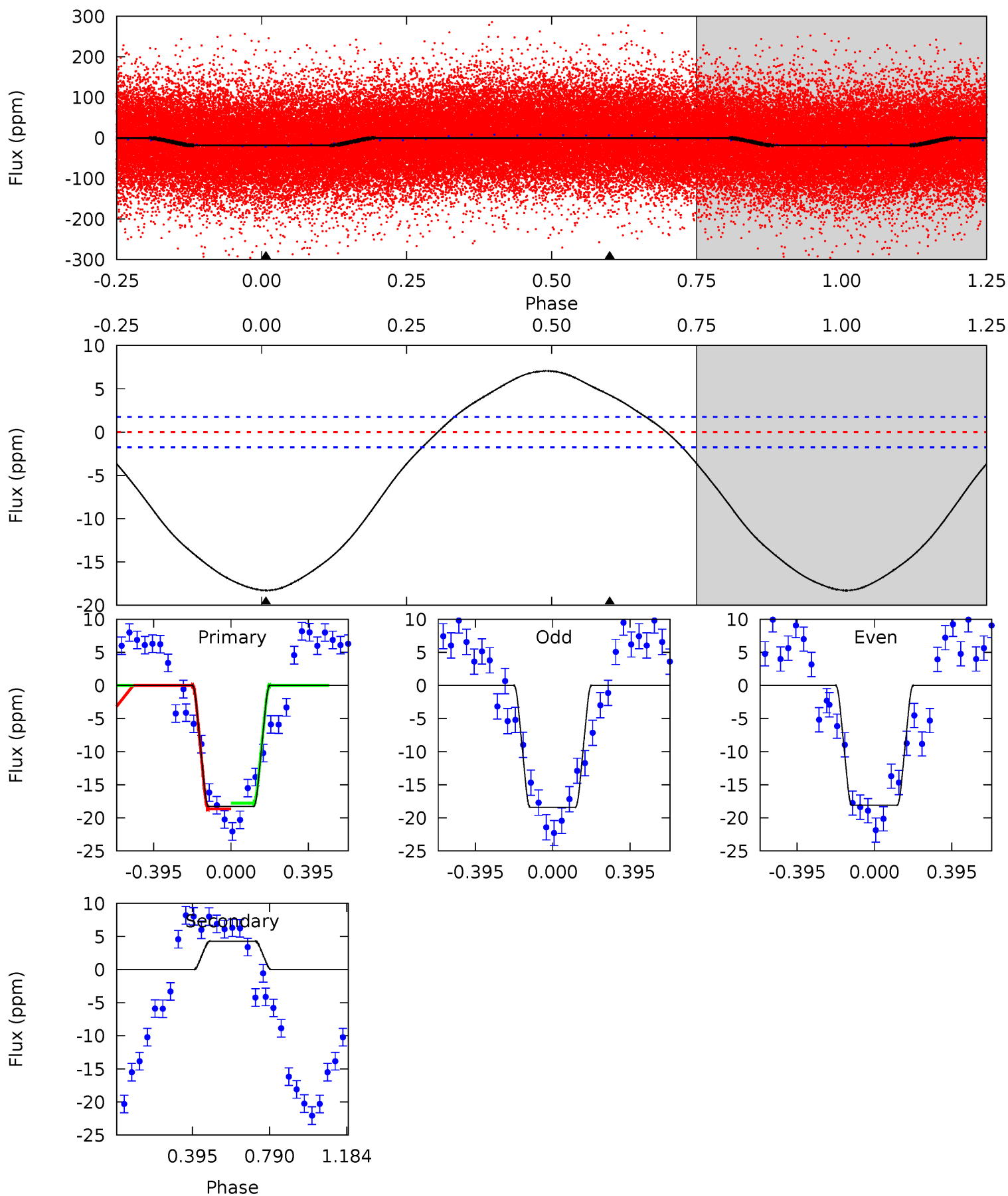
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.0	-1.85	0	0	4.30	0.96	1.28	17.0	17.0	-1.85	-1.85	1.29	1.10	0.19	2.16



Alt Model-Shift Uniqueness Test

006214033-01, P = 0.934636 Days, E = 131.401372 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
44.4	-10.4	0	0	4.27	0.85	4.54	44.4	44.4	-10.4	-10.4	0.37	1.07	0.28	1.05



Stellar Parameters For KIC 006214033

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8340^{+202}_{-375}	$3.751^{+0.440}_{-0.138}$	$-0.120^{+0.300}_{-0.350}$	$3.150^{+0.799}_{-1.483}$	$2.039^{+0.321}_{-0.522}$	$0.092^{+0.366}_{-0.038}$
	+2%/-4%	+12%/-4%	+250%/-292%	+25%/-47%	+16%/-26%	+399%/-41%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006214033-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	1 ± 0	$0.77^{+0.40}_{-0.31}$	5766^{+467}_{-701}	-5643^{+641}_{-1104}	$-0.414^{+0.289}_{-0.884}$
Alt.	4 ± 0	$1.44^{+0.47}_{-0.44}$	5723^{+472}_{-694}	-5978^{+418}_{-573}	$-0.639^{+0.280}_{-0.653}$

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

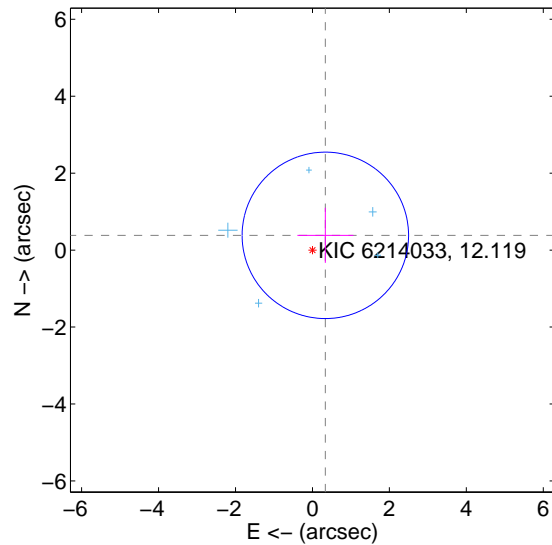
Supplemental centroid analysis for 006214033-01. Kepler magnitude: 12.12. Transit SNR 10.29

There are 5 quarters with good PRF difference image offsets

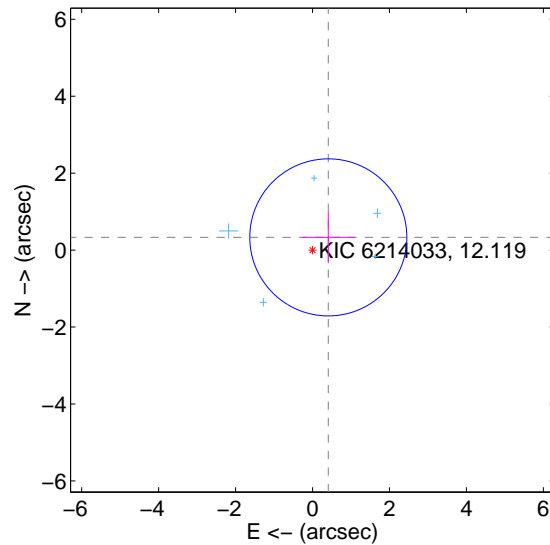
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.509 ± 0.721	0.71	-0.335 ± 0.728	0.383 ± 0.716
PRF-fit source offset from KIC position	0.527 ± 0.681	0.77	-0.411 ± 0.689	0.331 ± 0.668
photometric centroid source offset	1.91 ± 1.11	1.72	-1.87 ± 1.11	0.39 ± 1.11

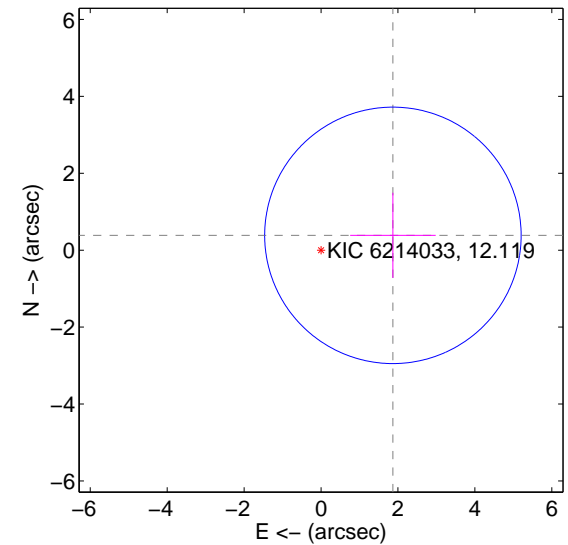
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

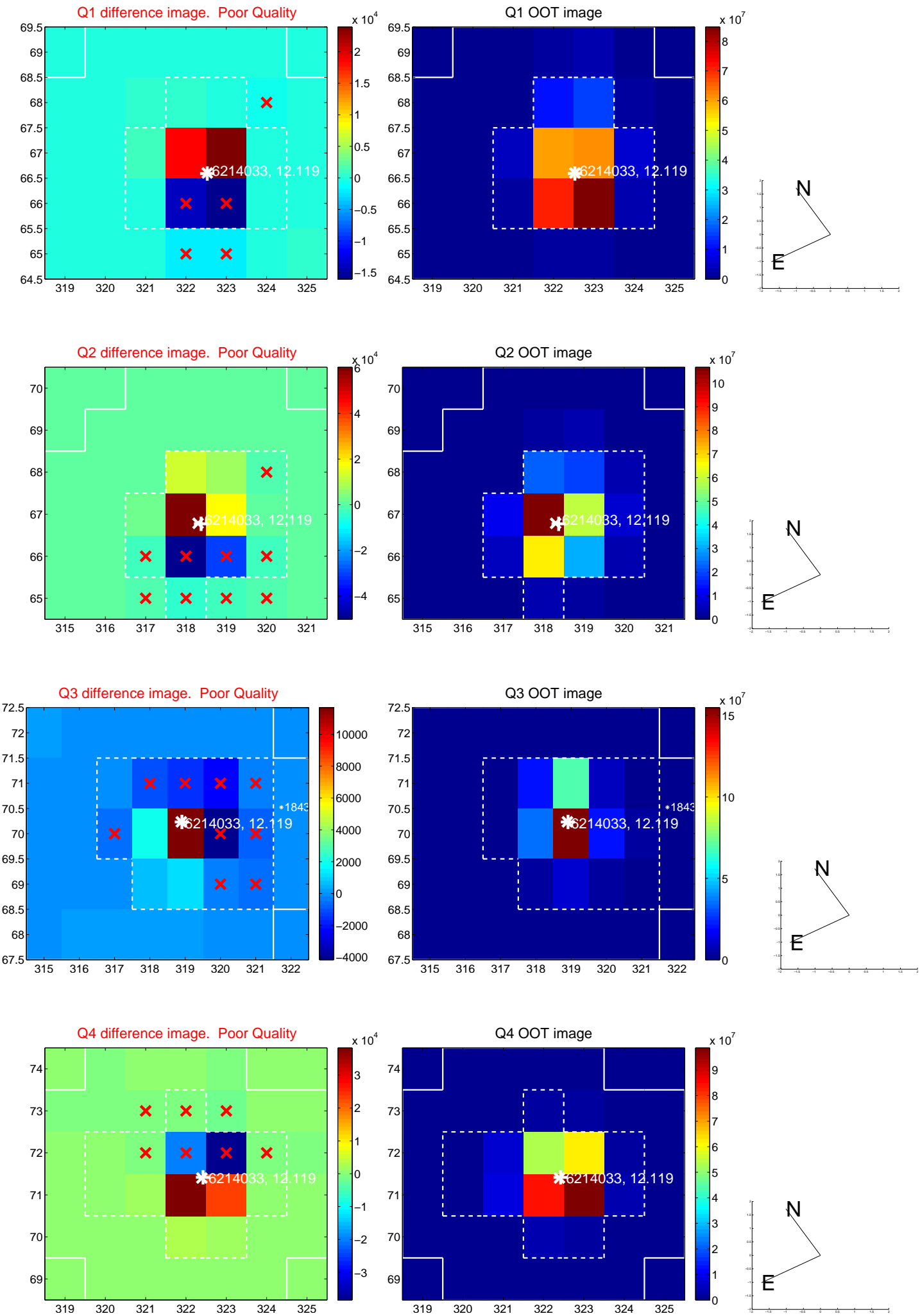


offset from photometric centroids

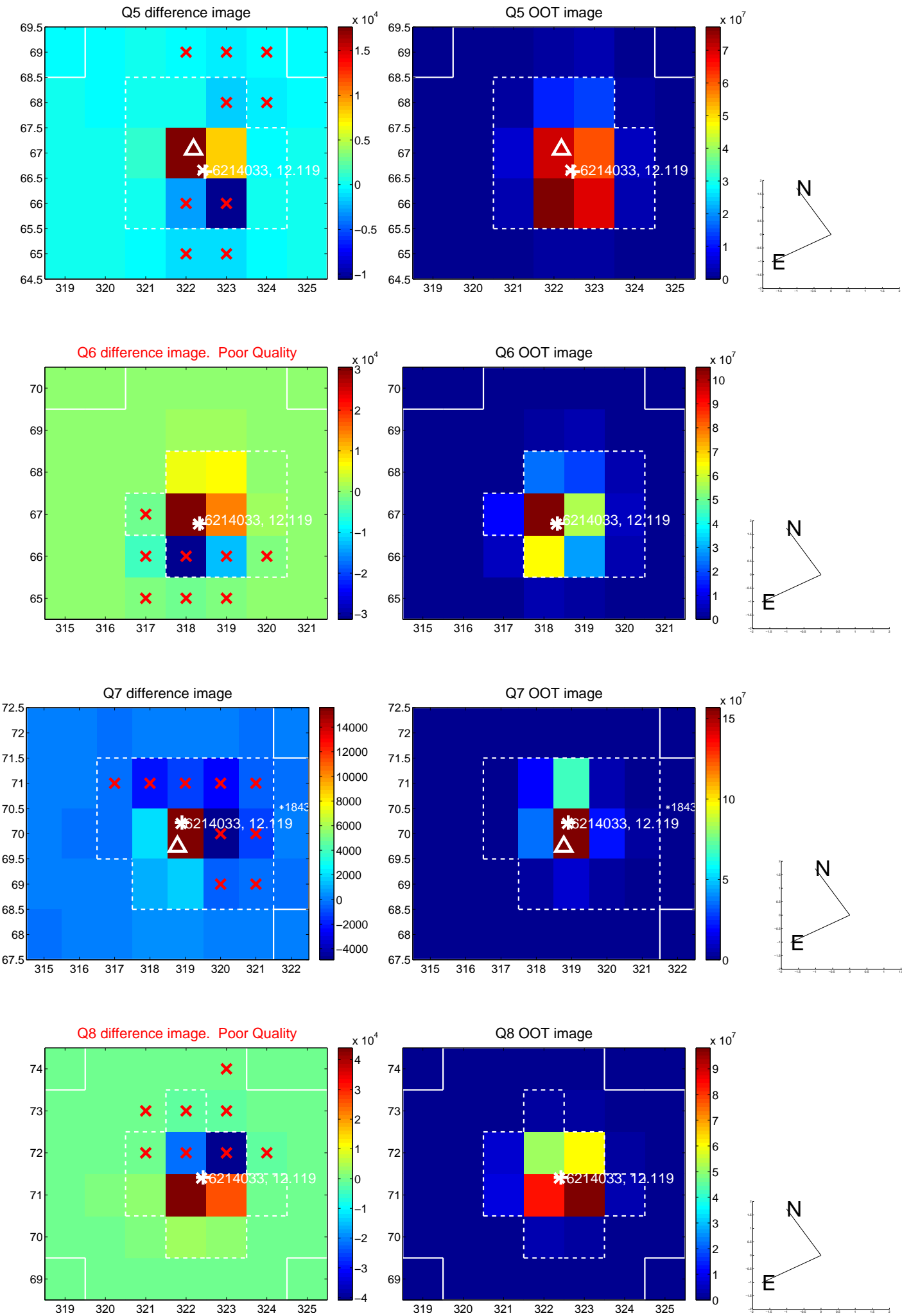


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

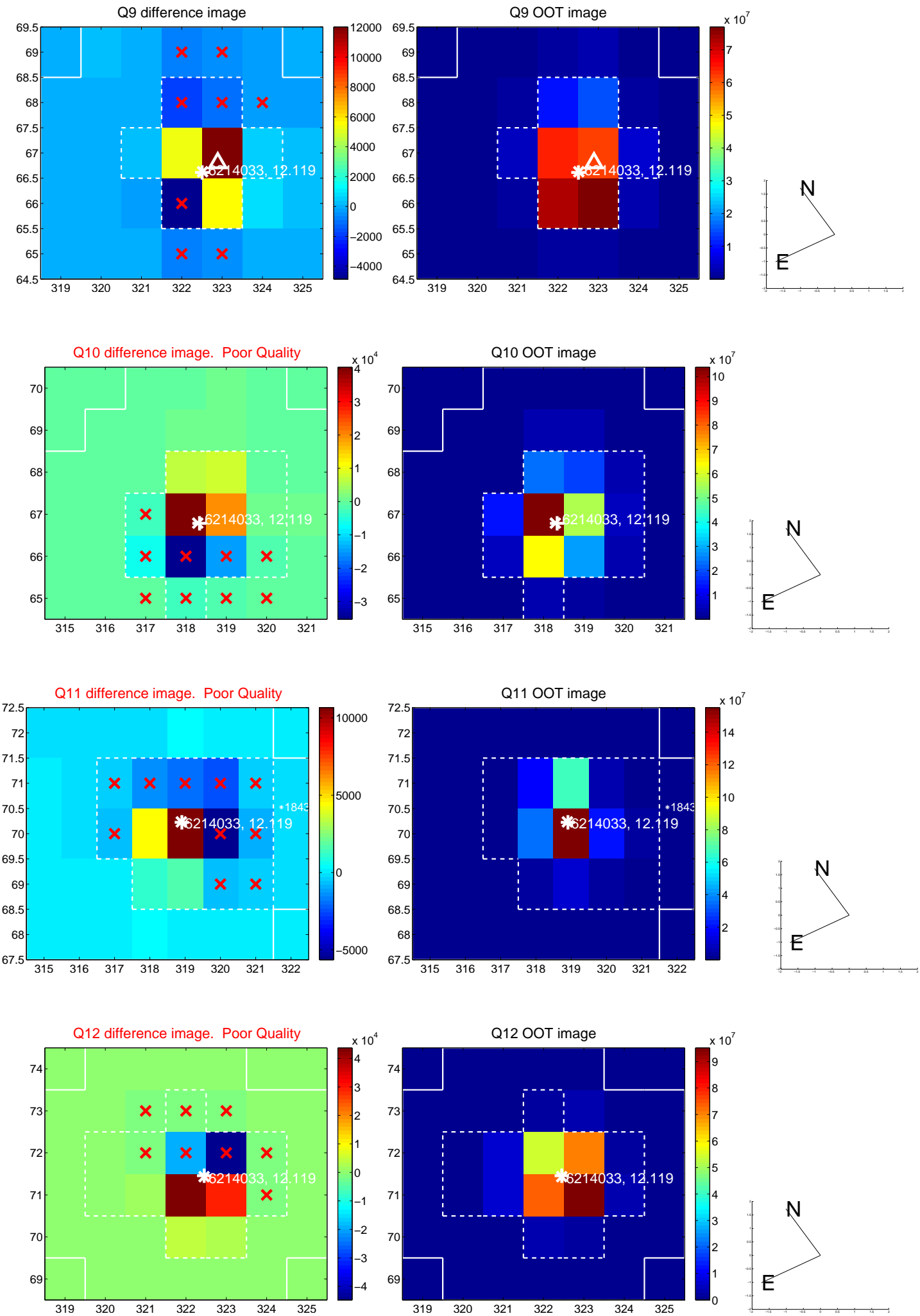
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



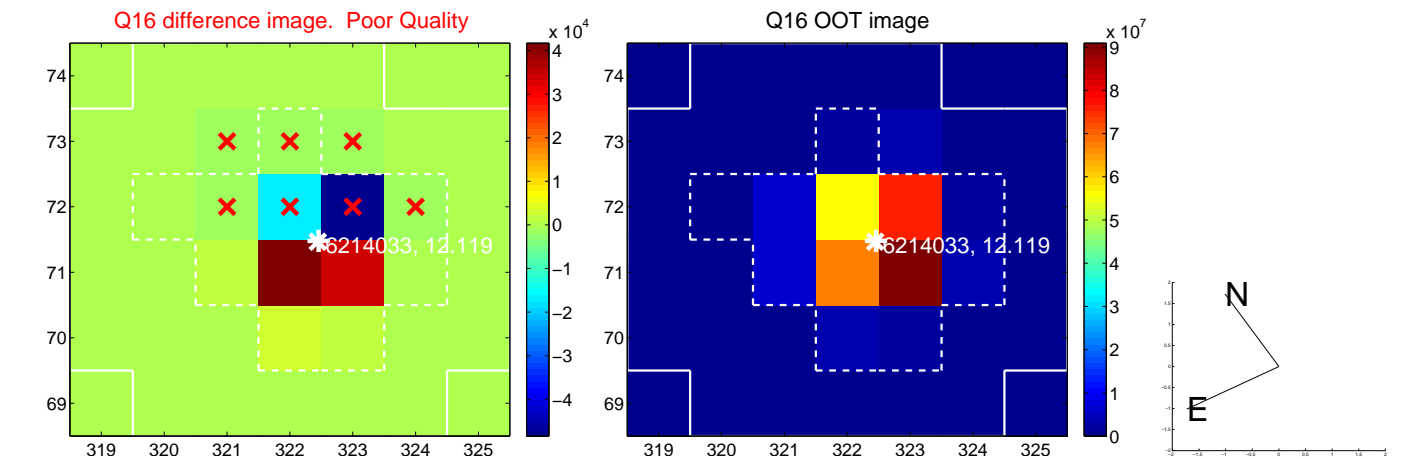
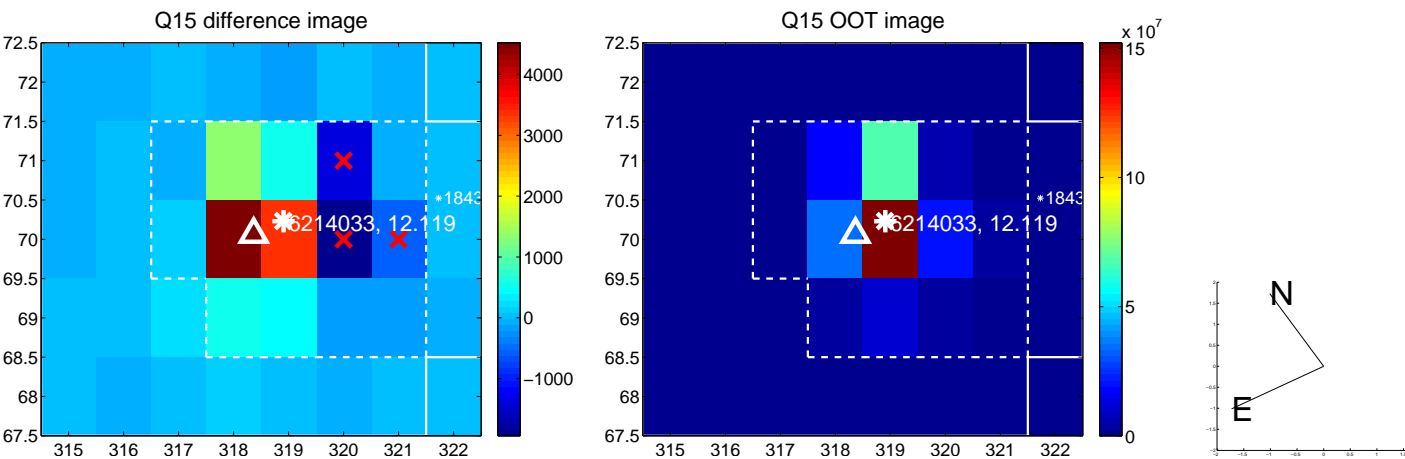
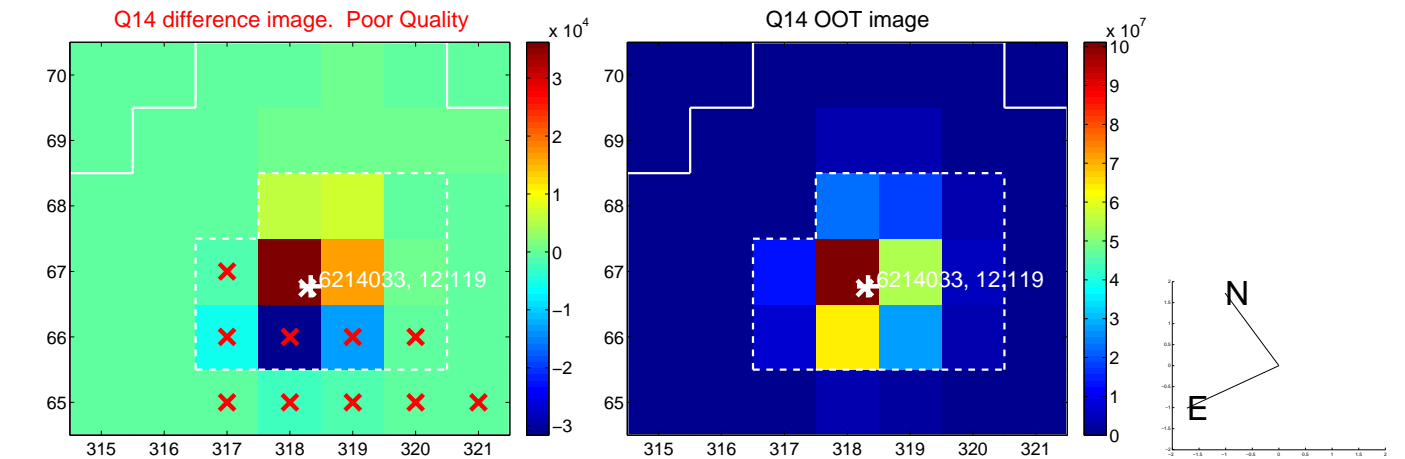
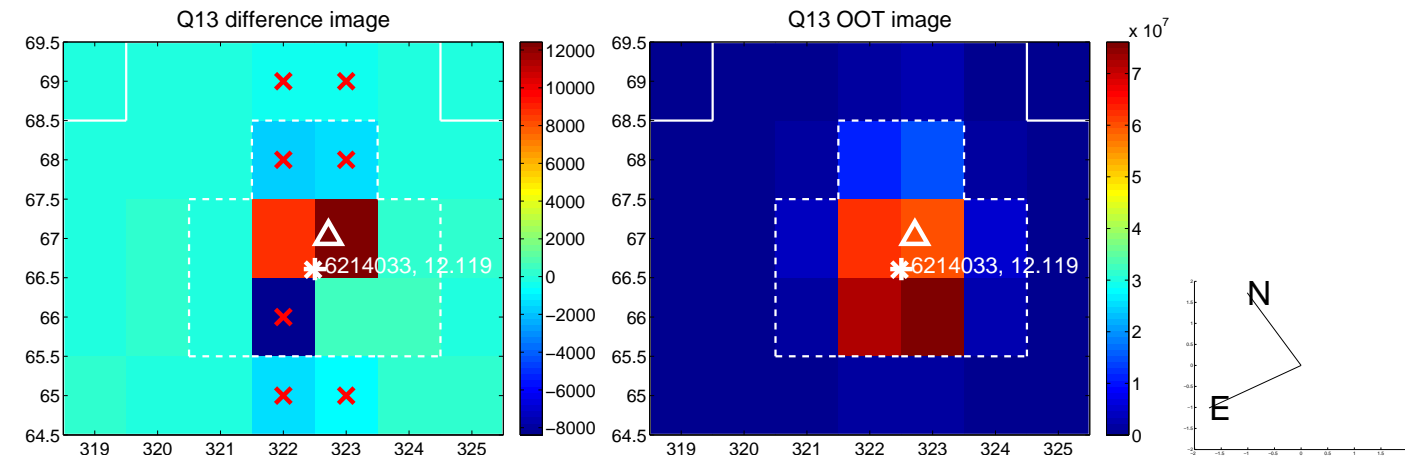
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



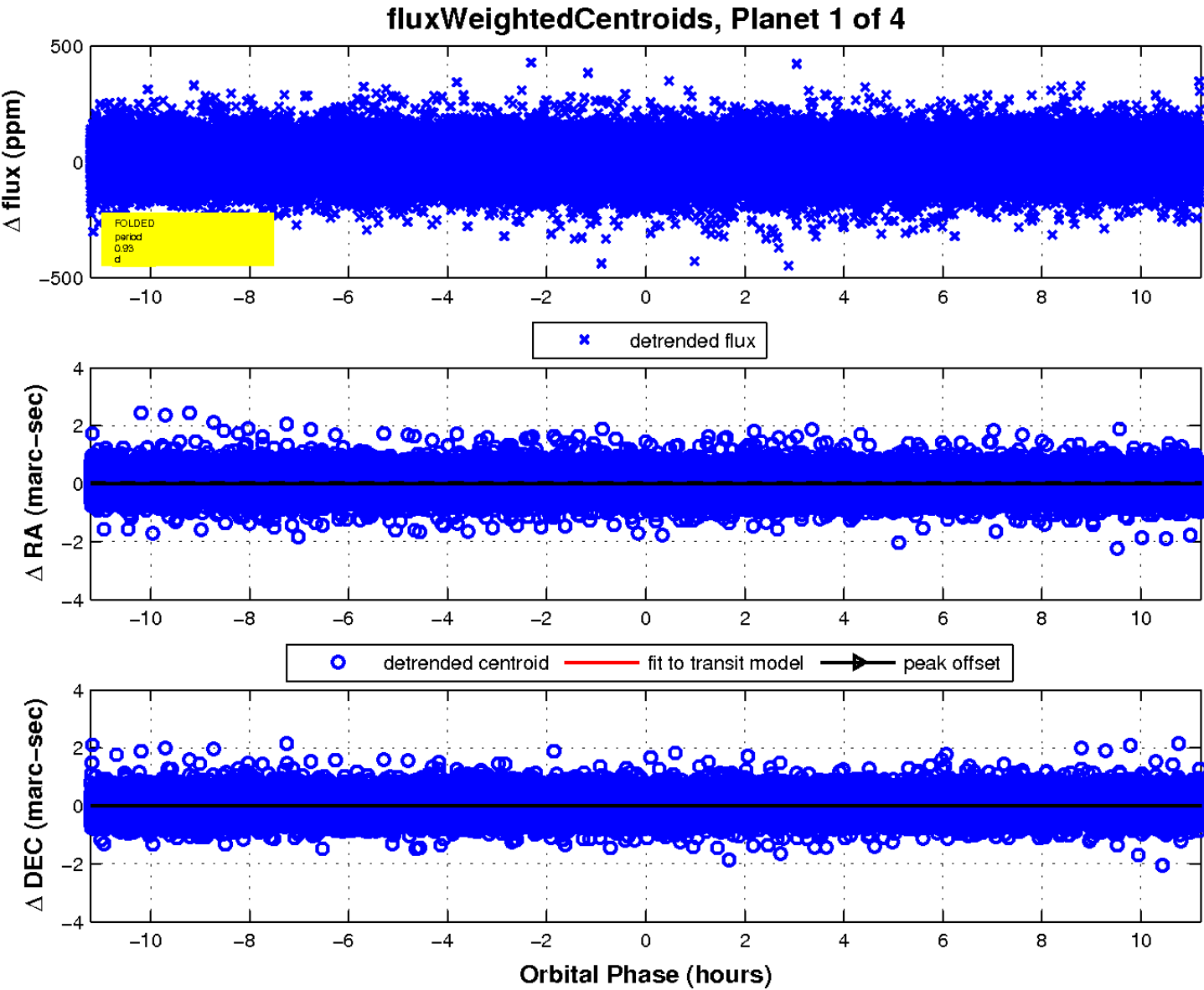
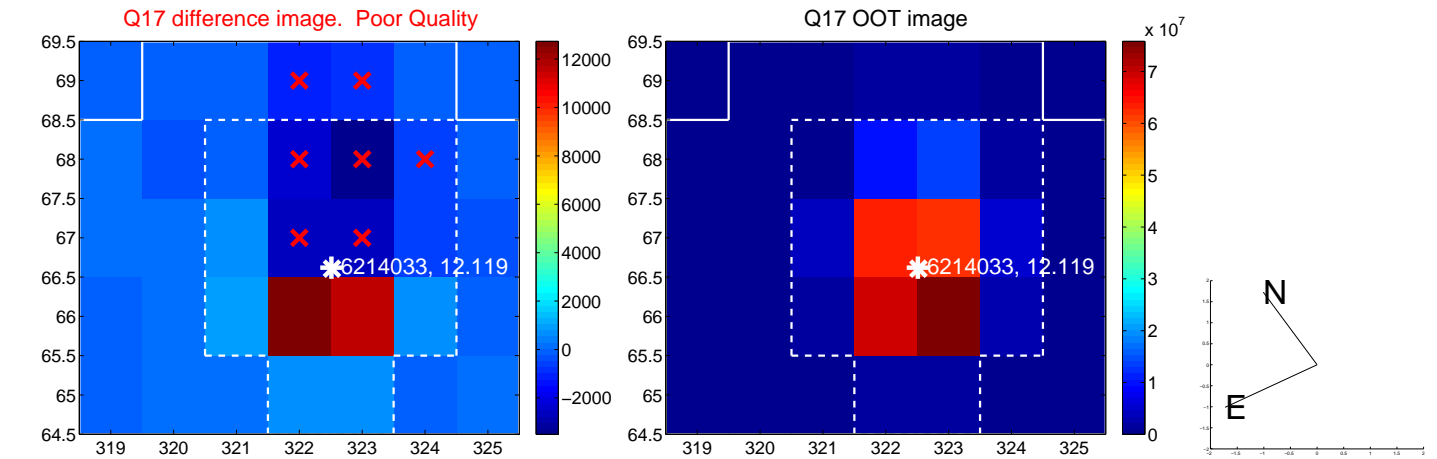
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

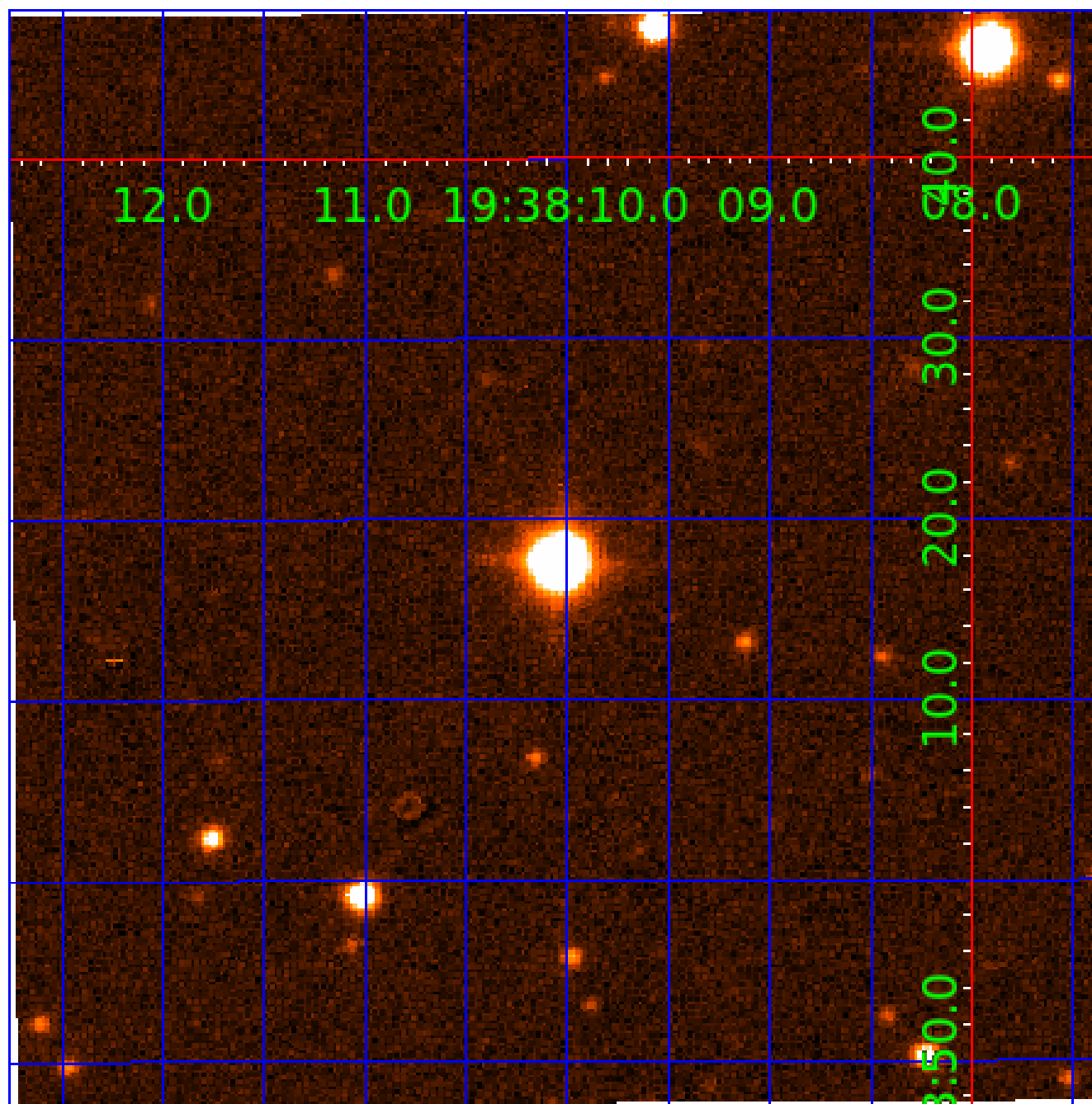


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006214033

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})
006214033-01	OBS	No	0.934637	132.347948	6.5	7.043	7.6	10.3	3.15	8340	0.85	76367.48
006214033-02	OBS	No	45.953452	155.546616	288.1	2.000	14.7	-1.0	3.15	8340	5.42	423.98
006214033-03	OBS	No	12.501770	141.631967	113.2	1.389	18.4	16.7	3.15	8340	3.40	2405.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006214033-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006214033-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
006214033-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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

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

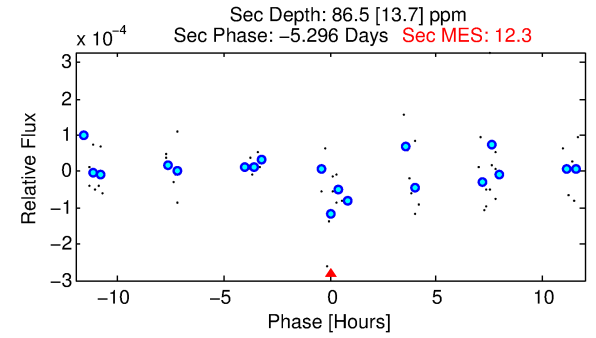
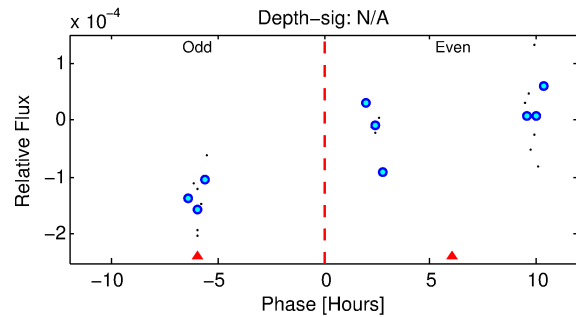
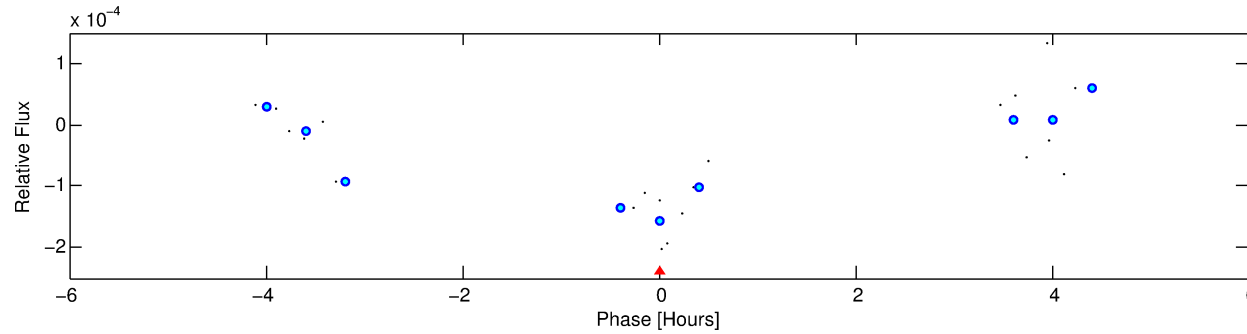
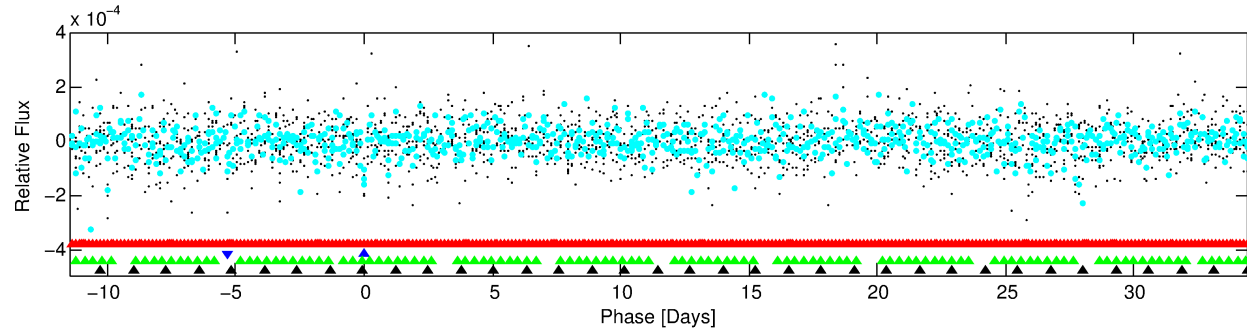
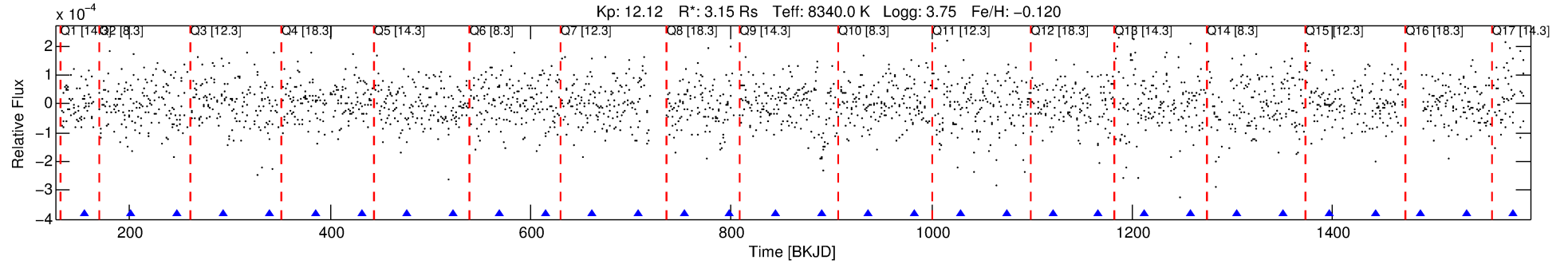
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006214033-02

No Significant Match Found

DV One-Page Summary

KIC: 6214033 Candidate: 2 of 4 Period: 45.953 d



TPS TCE Results:

Period = 45.95345 d
Epoch = 155.5466 BKJD

DV fit results are unavailable

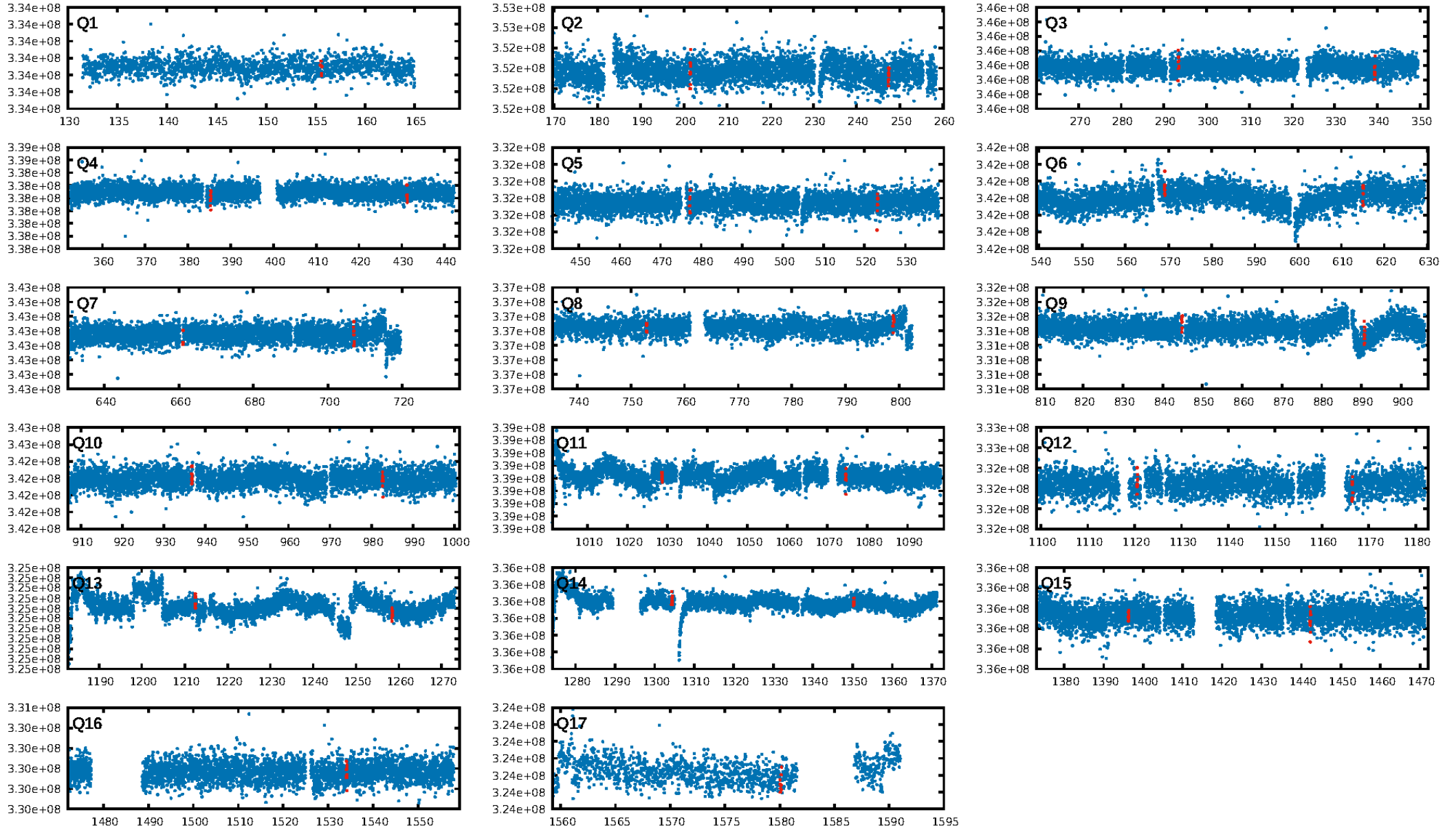
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [128.27σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.86e-11
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

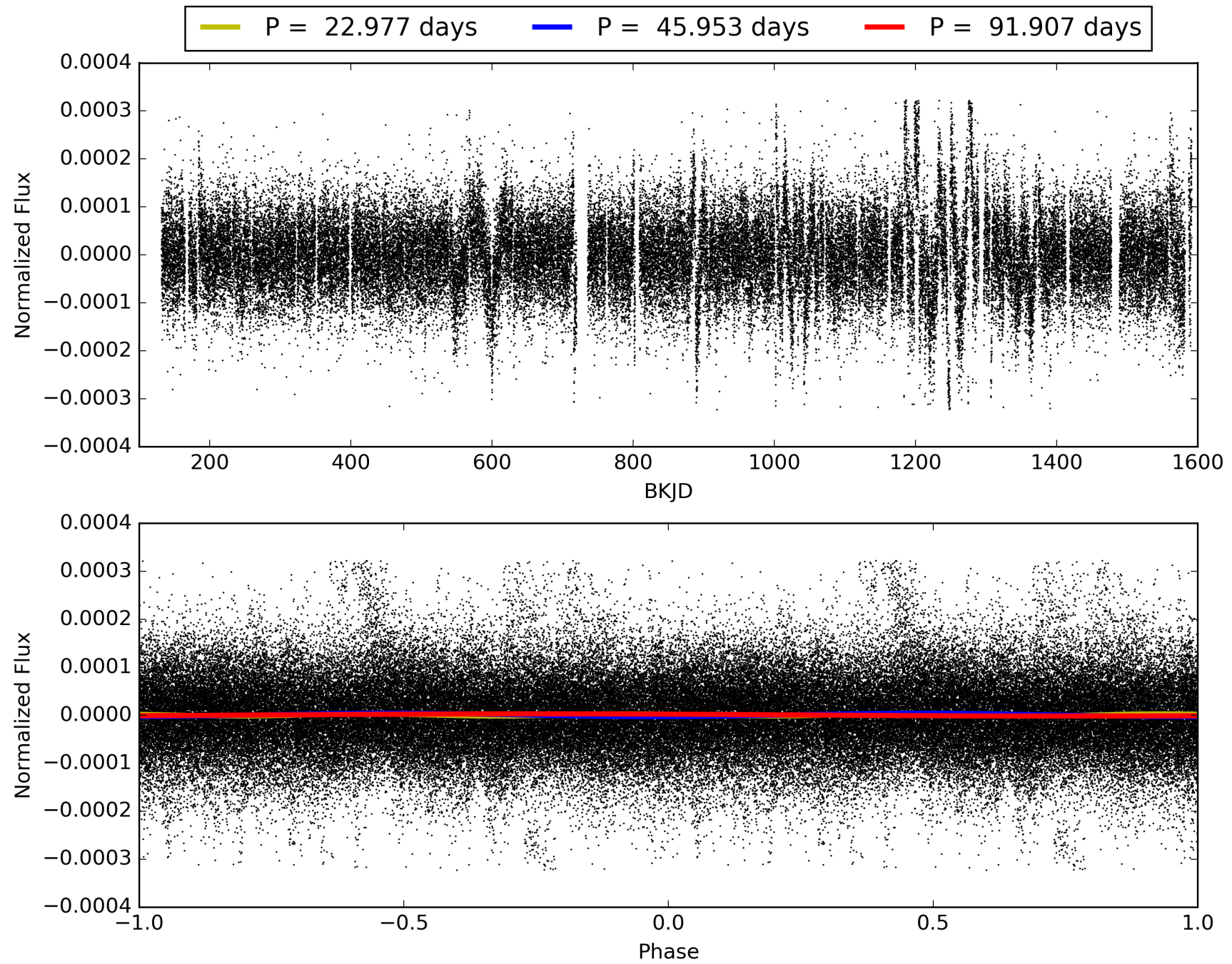
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:05:43 Z

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

TCE 006214033-02, PDC Light Curves

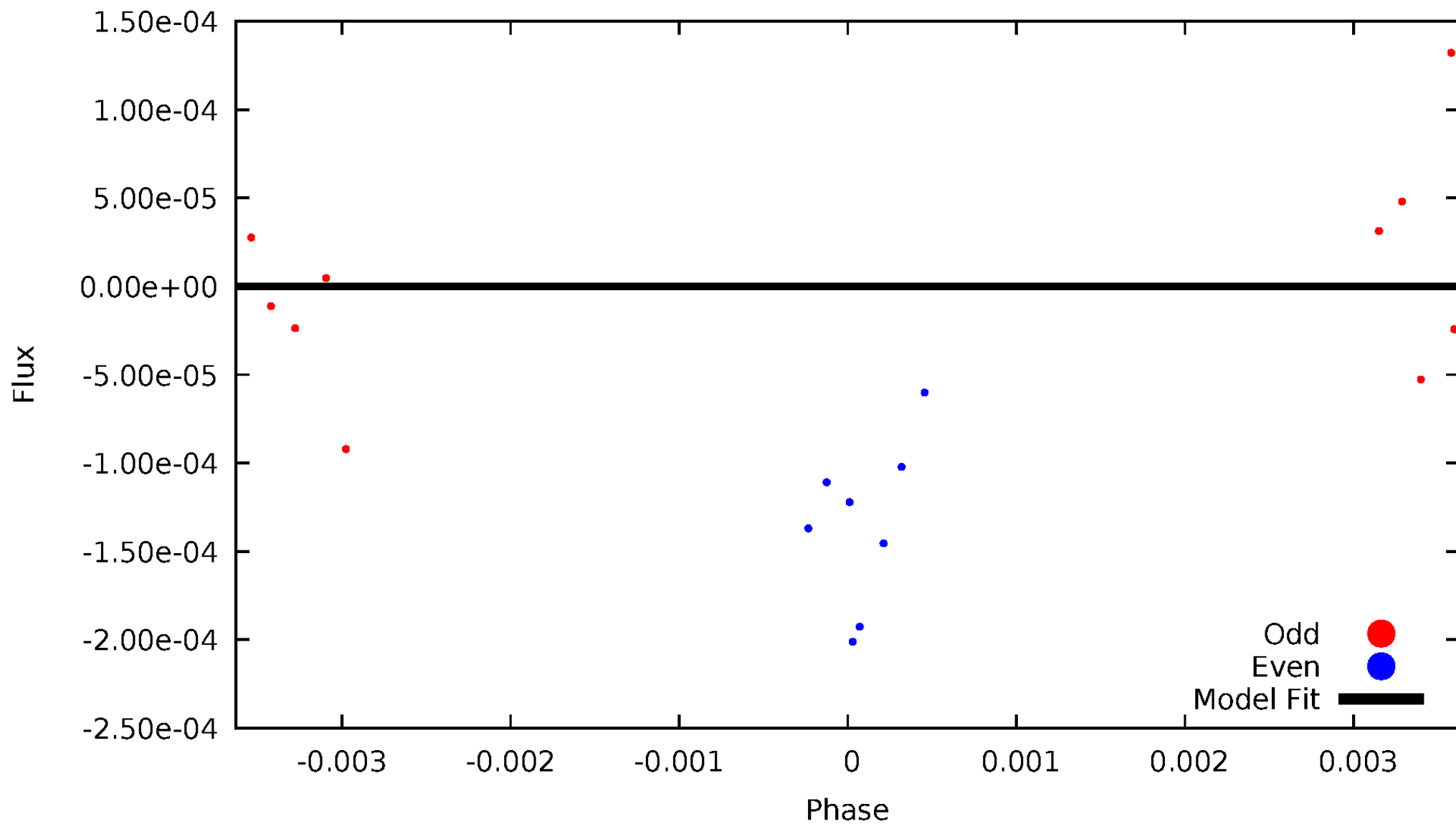


TCE 006214033-02



DV Odd/Even

TCE 006214033-02

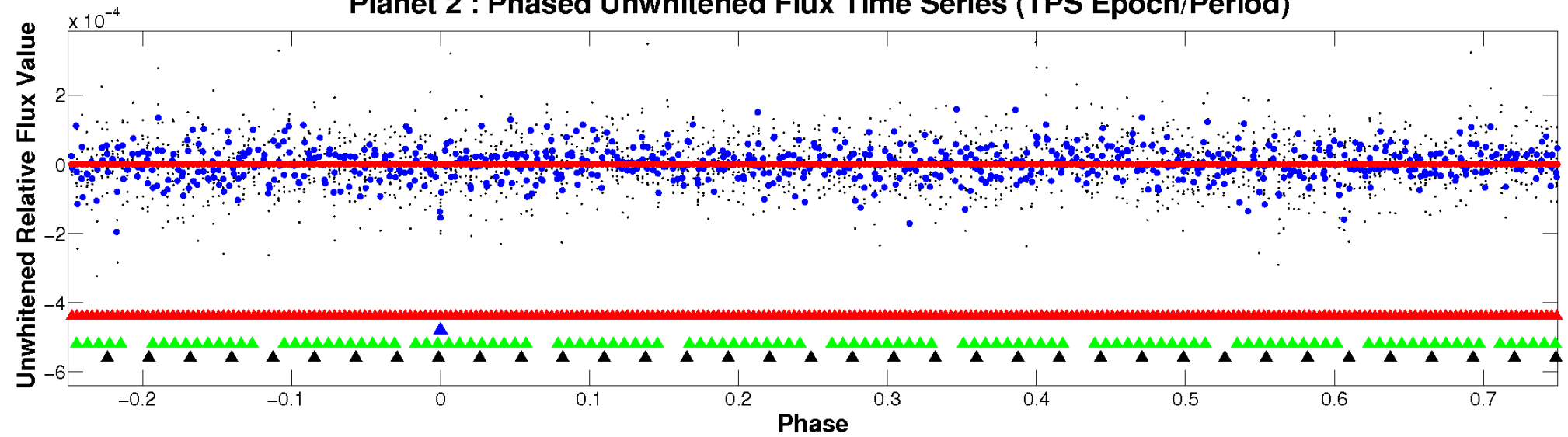


ALT Odd/Even

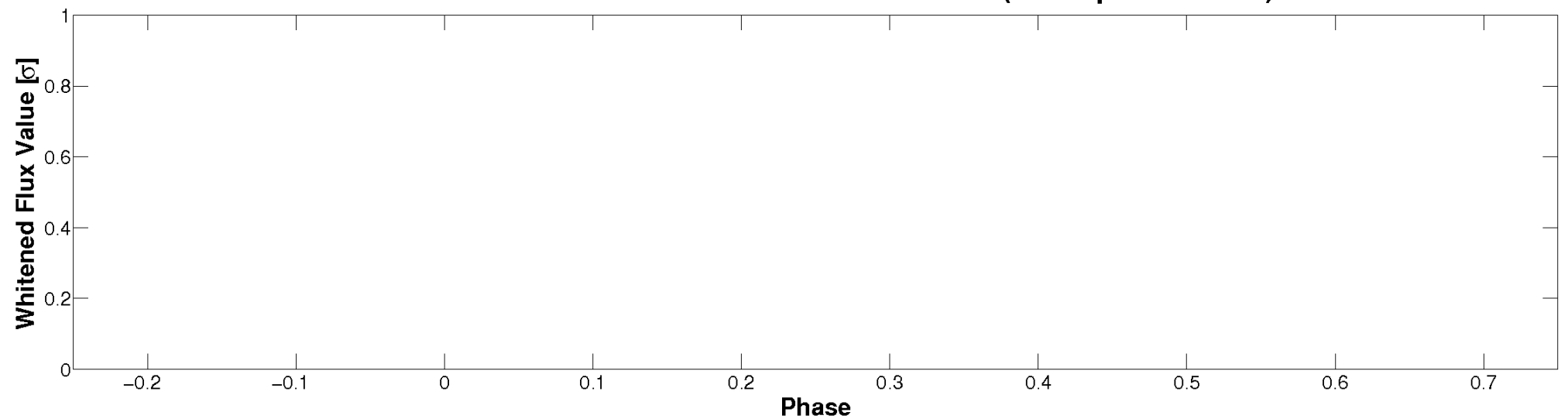
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

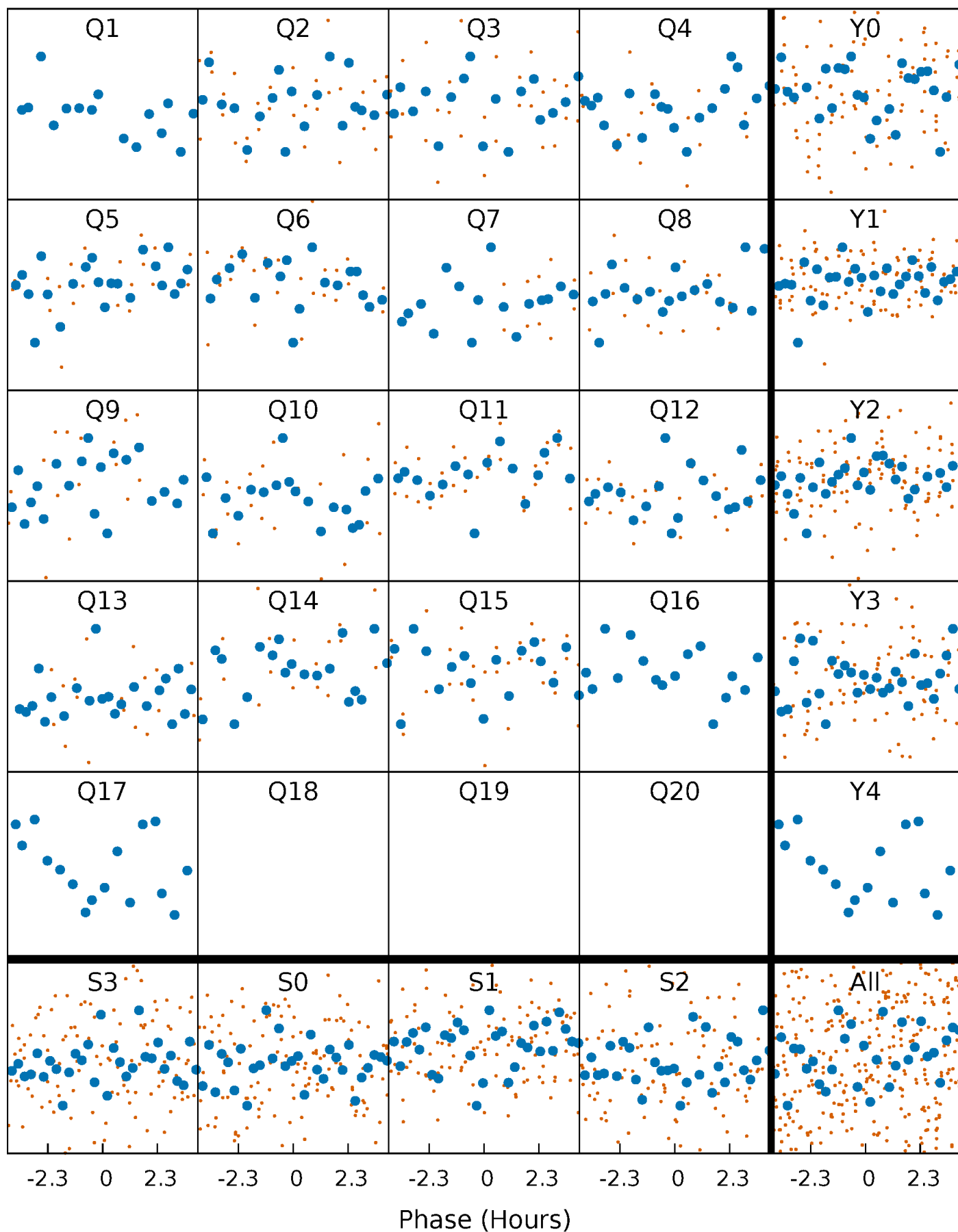


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



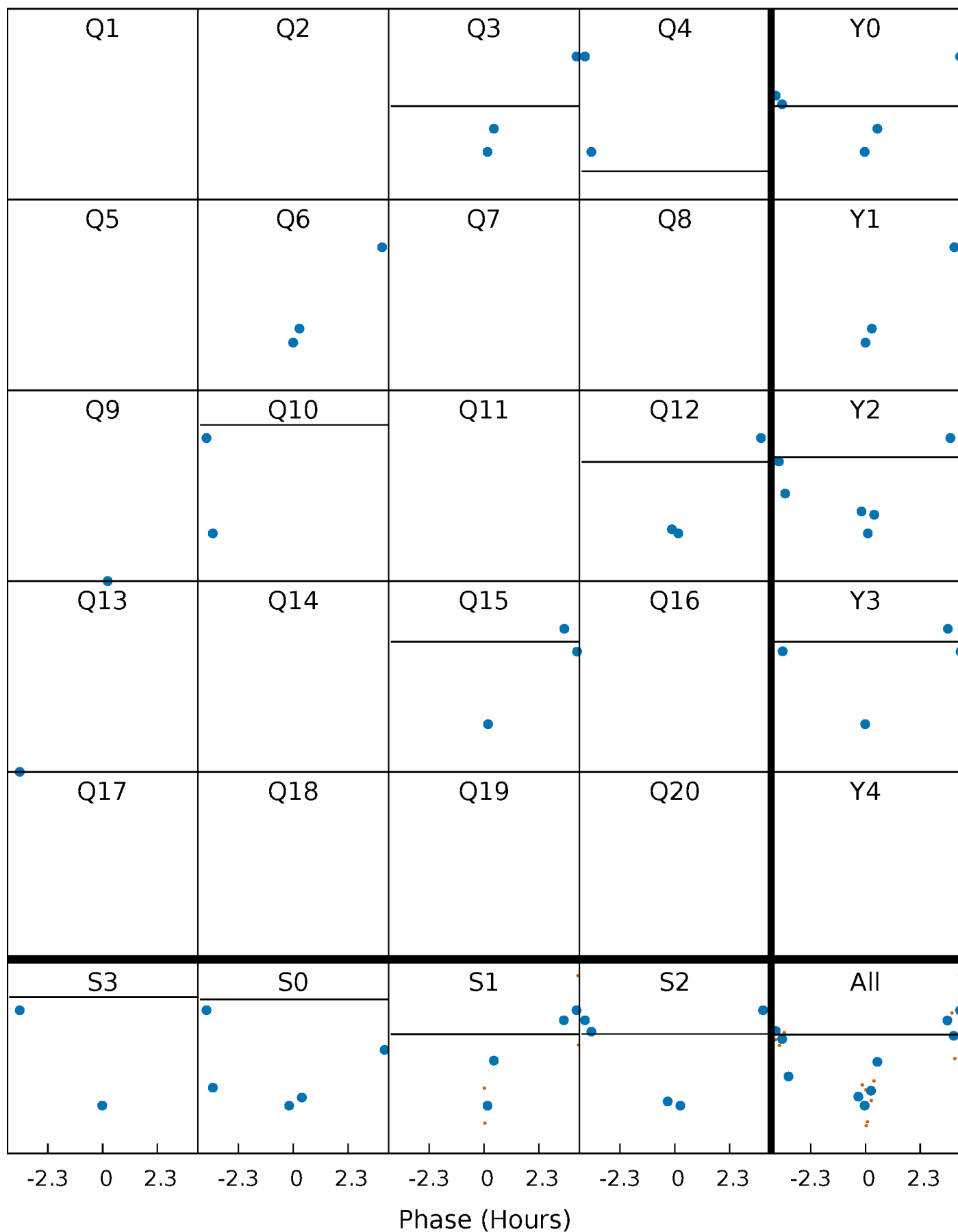
PDC Quarter-Phased Transit Curves

TCE 006214033-02 P= 45.953452 Days $T_0=155.546616$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006214033-02 P= 45.953452 Days $T_0=155.546616$ (BKJD)

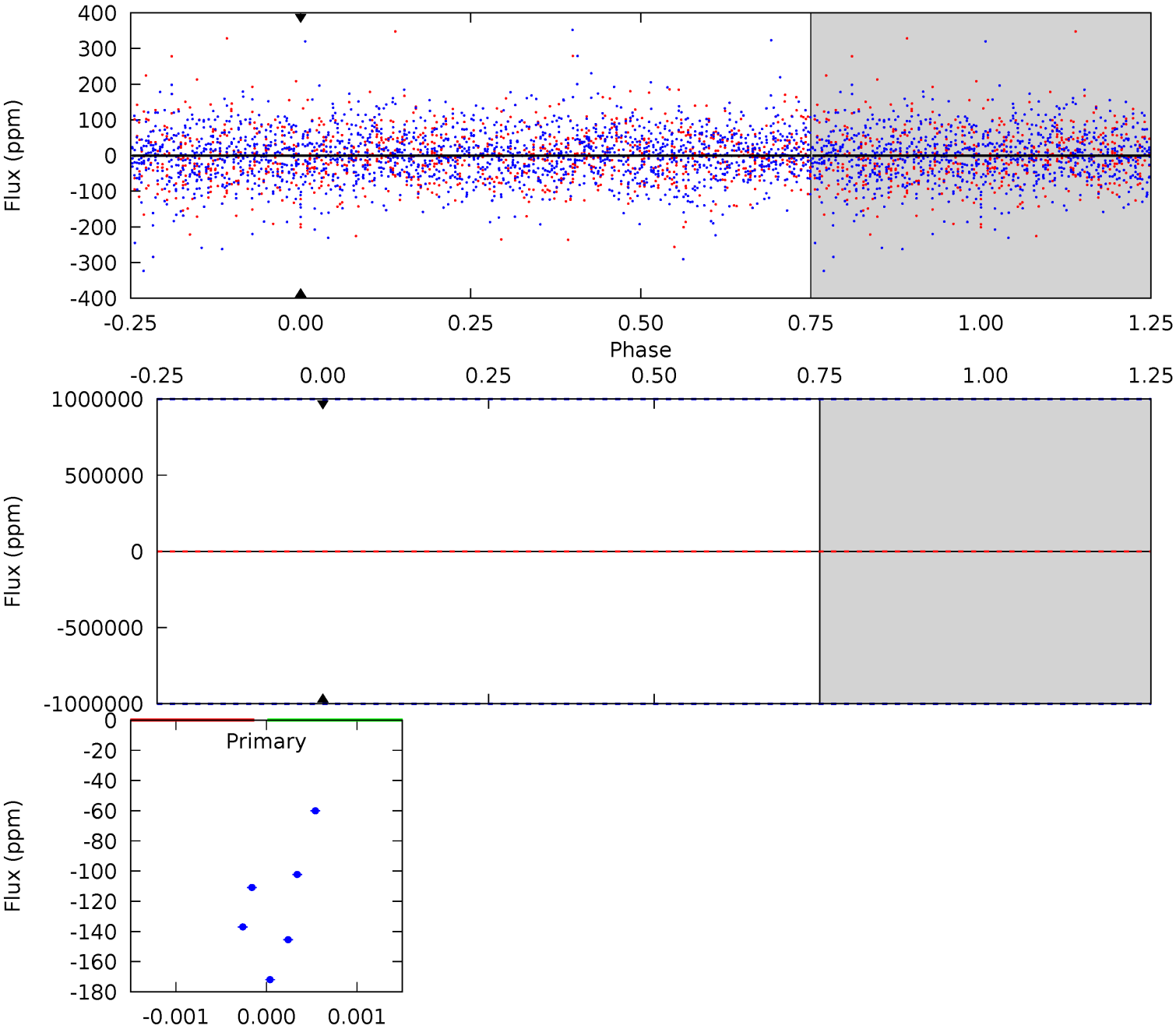


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006214033-02, P = 45.953452 Days, E = 109.593164 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	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006214033

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8340^{+202}_{-375}	$3.751^{+0.440}_{-0.138}$	$-0.120^{+0.300}_{-0.350}$	$3.150^{+0.799}_{-1.483}$	$2.039^{+0.321}_{-0.522}$	$0.092^{+0.366}_{-0.038}$
	+2%/-4%	+12%/-4%	+250%/-292%	+25%/-47%	+16%/-26%	+399%/-41%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006214033-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$22.77^{+27.44}_{-16.27}$	1564^{+132}_{-180}	5232^{+44840}_{-55054}	97^{+17464}_{-19356}
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 $A_{obs} \gg 1.0$

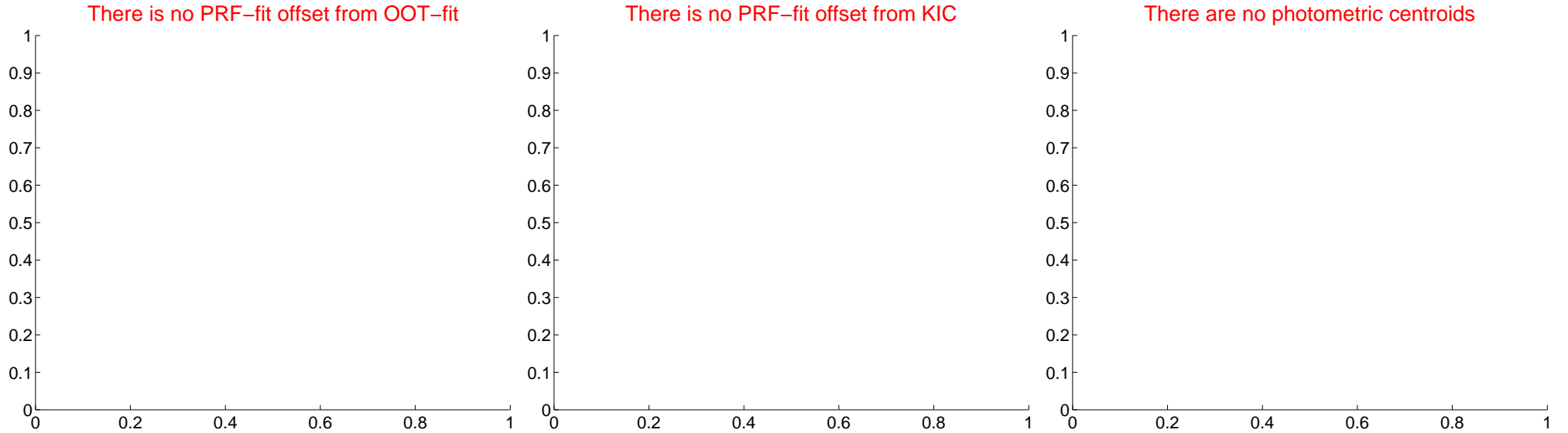
DV Centroid Data

Supplemental centroid analysis for 006214033-02. Kepler magnitude: 12.12. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

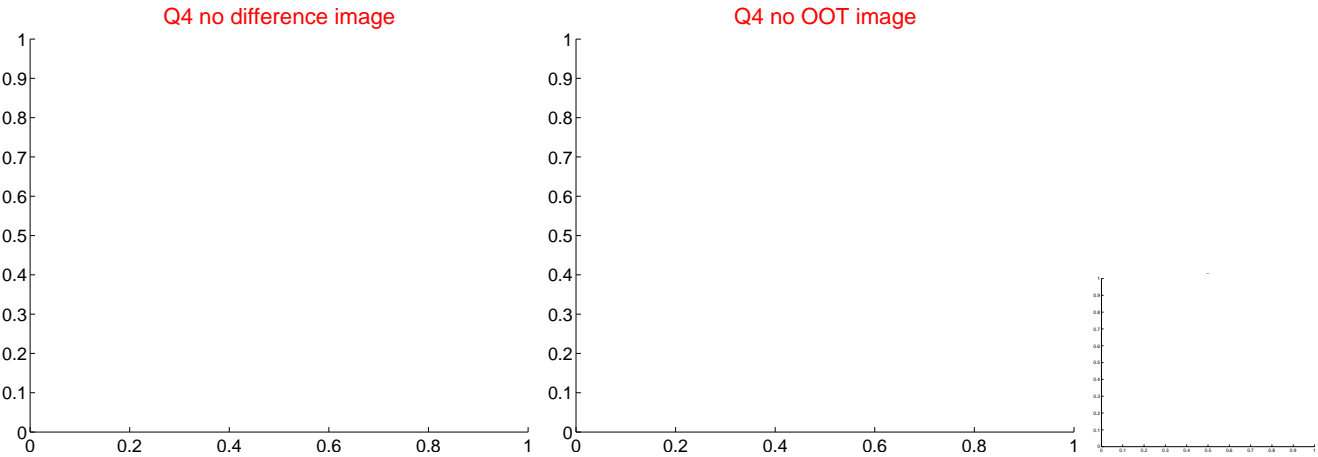
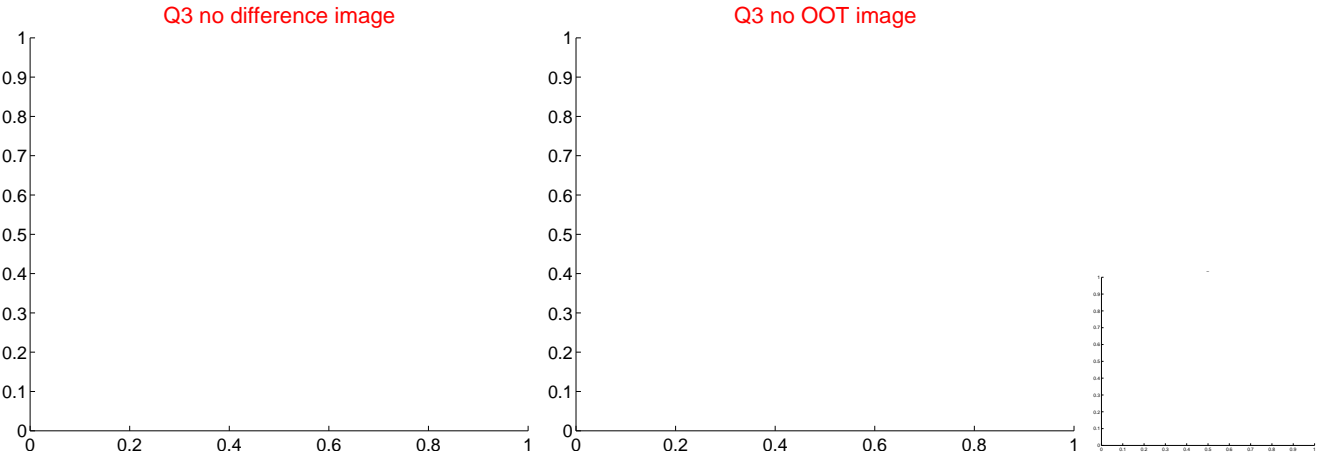
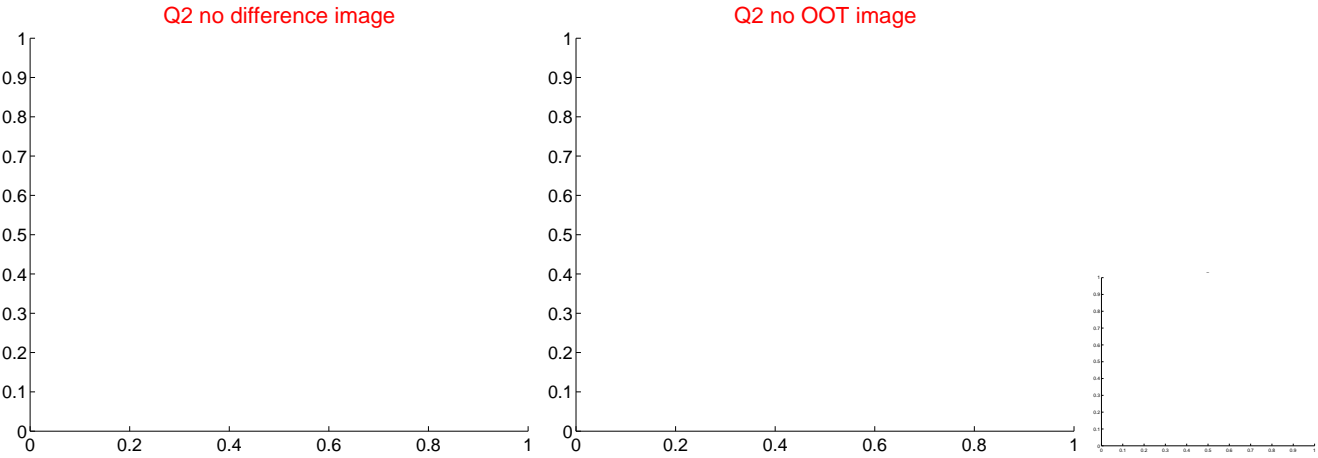
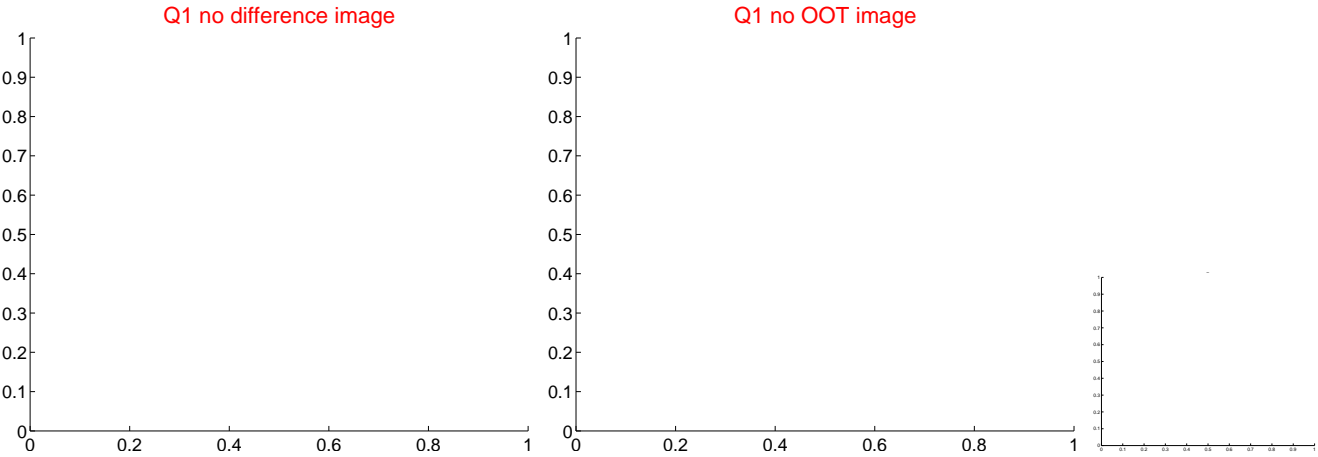
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

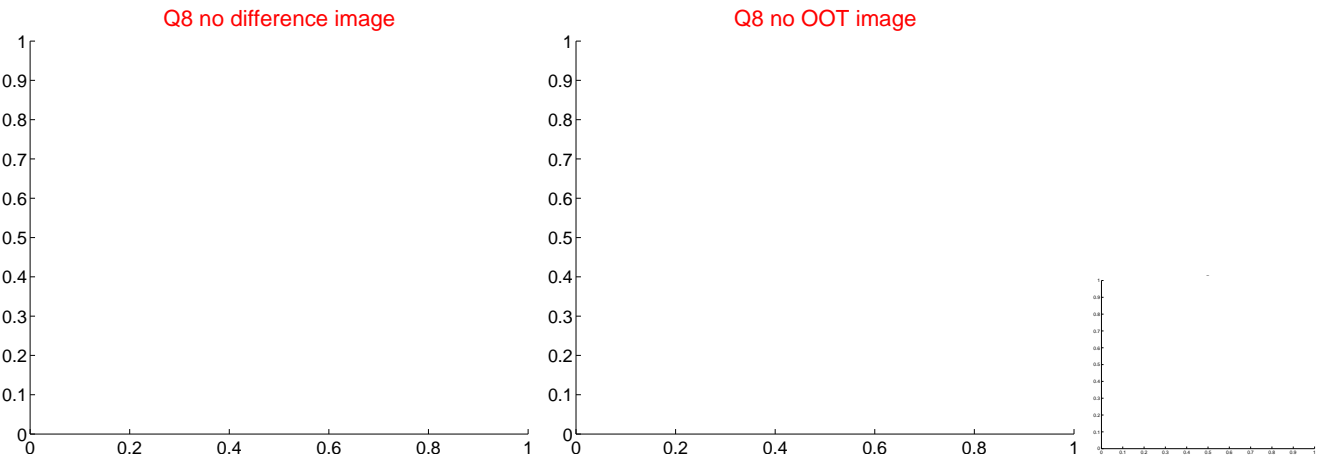
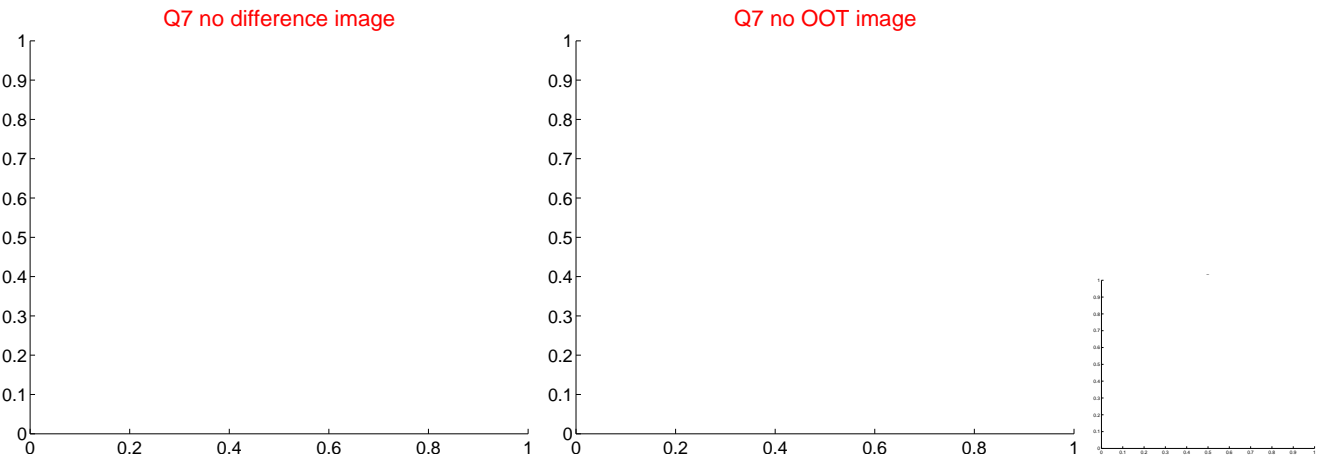
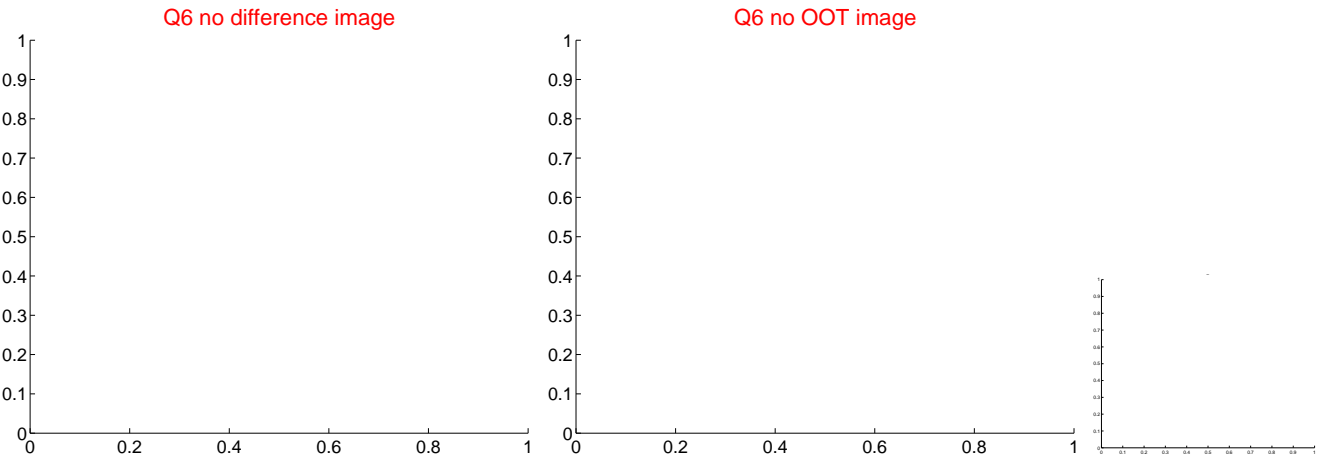
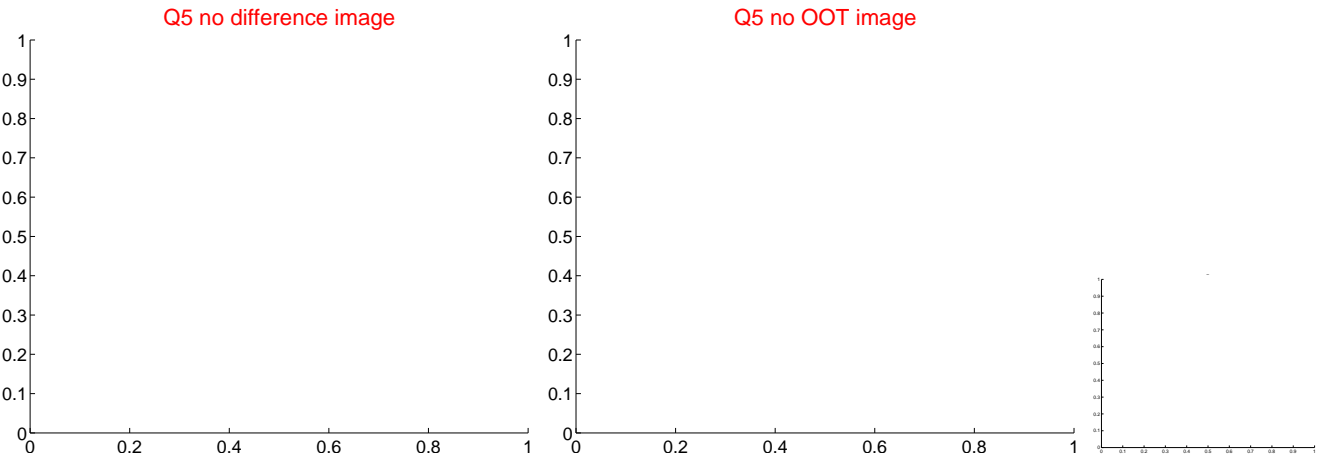


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

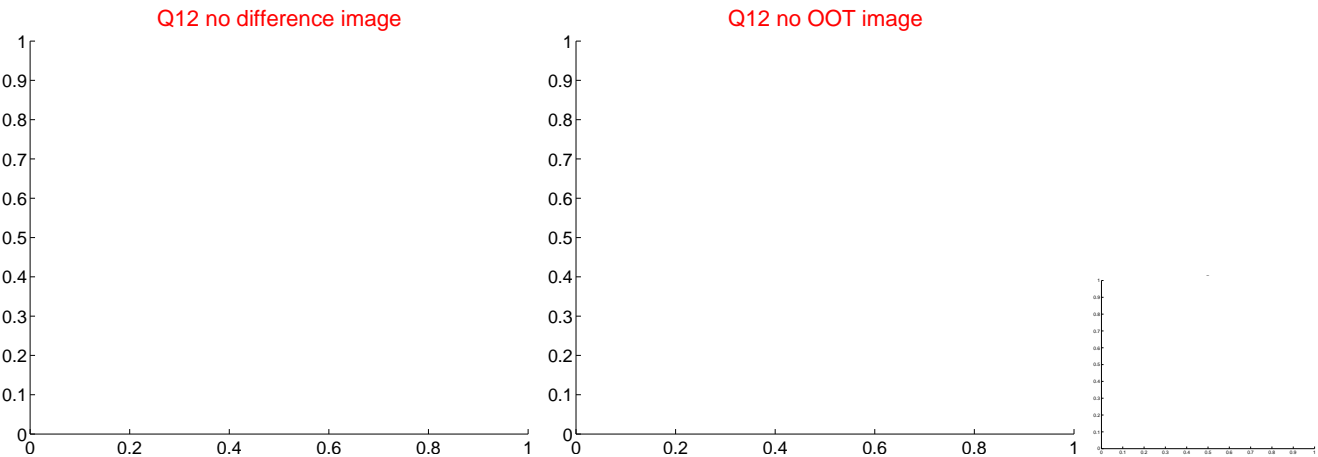
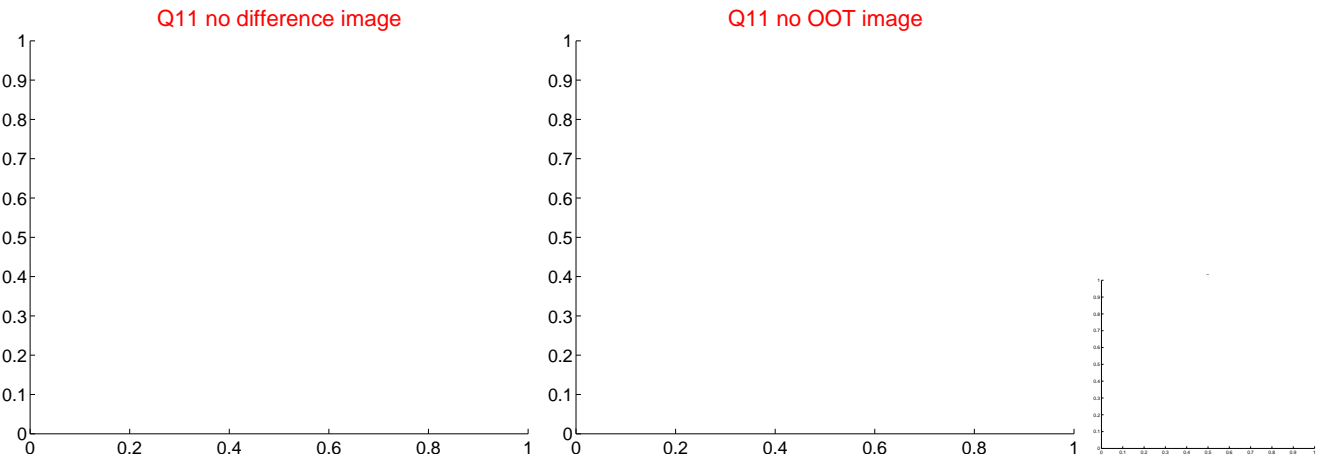
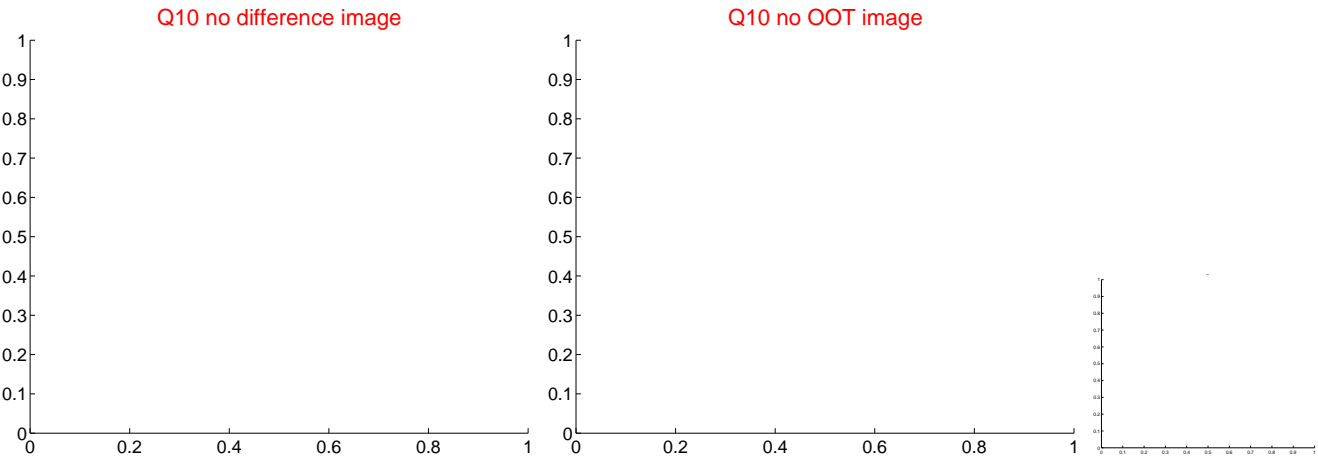
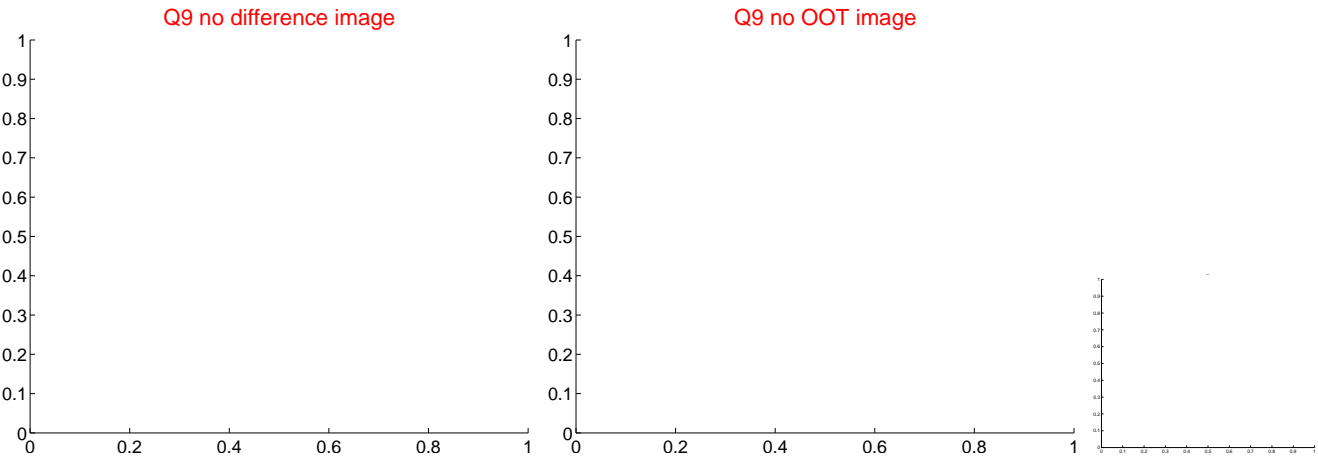
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



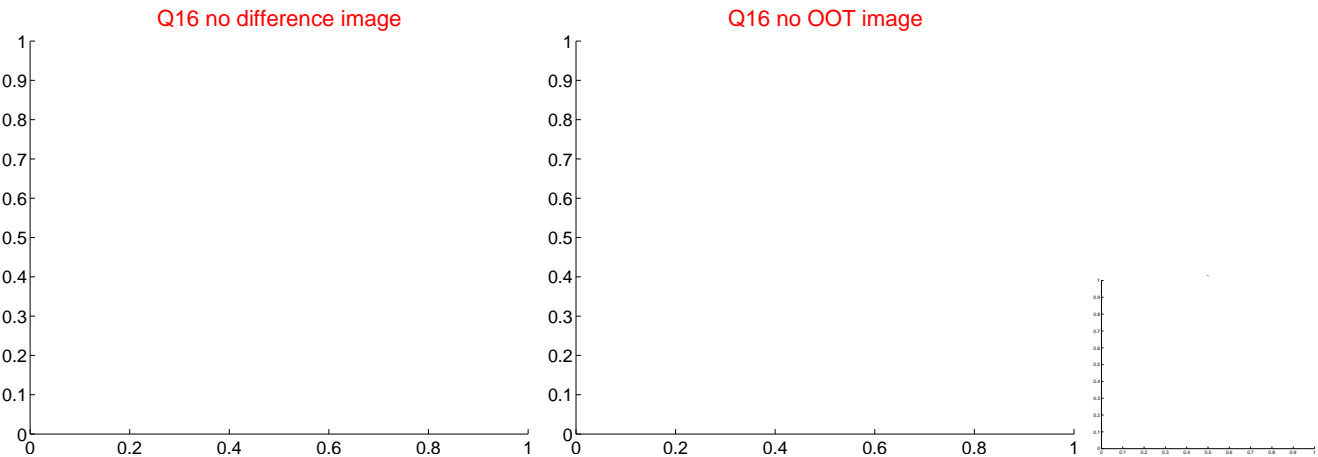
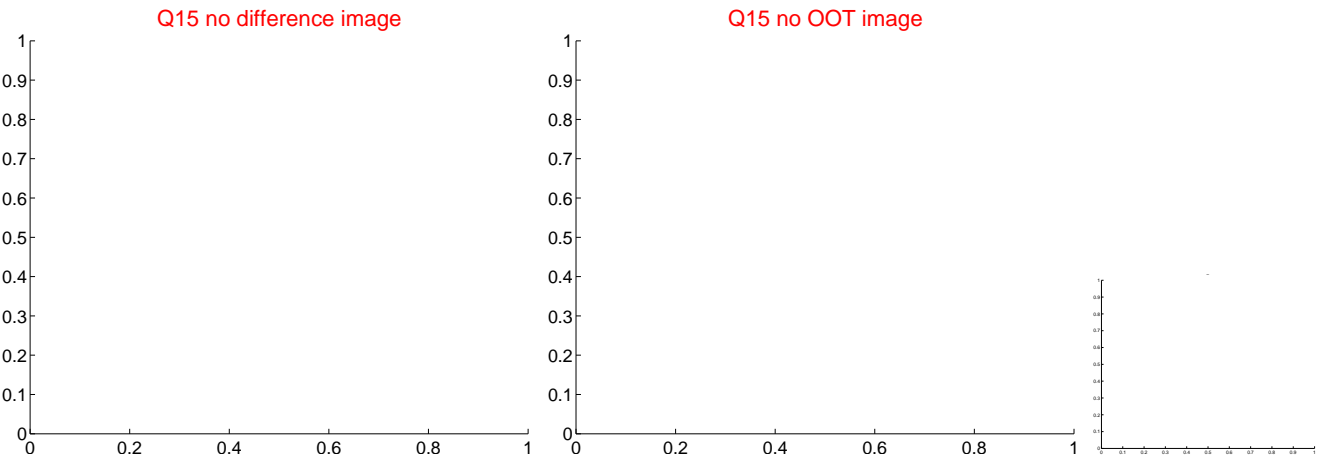
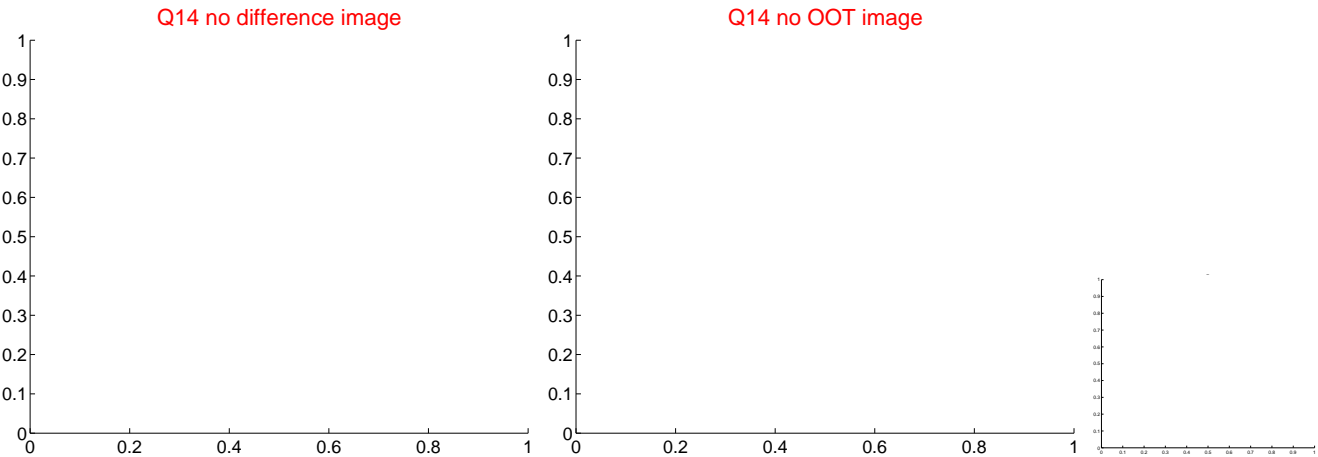
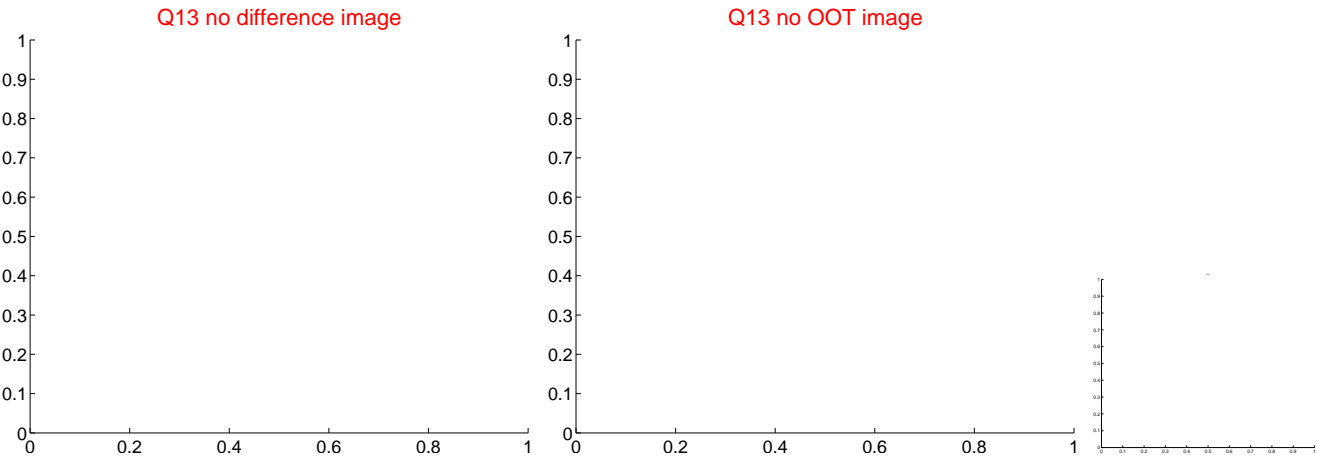
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



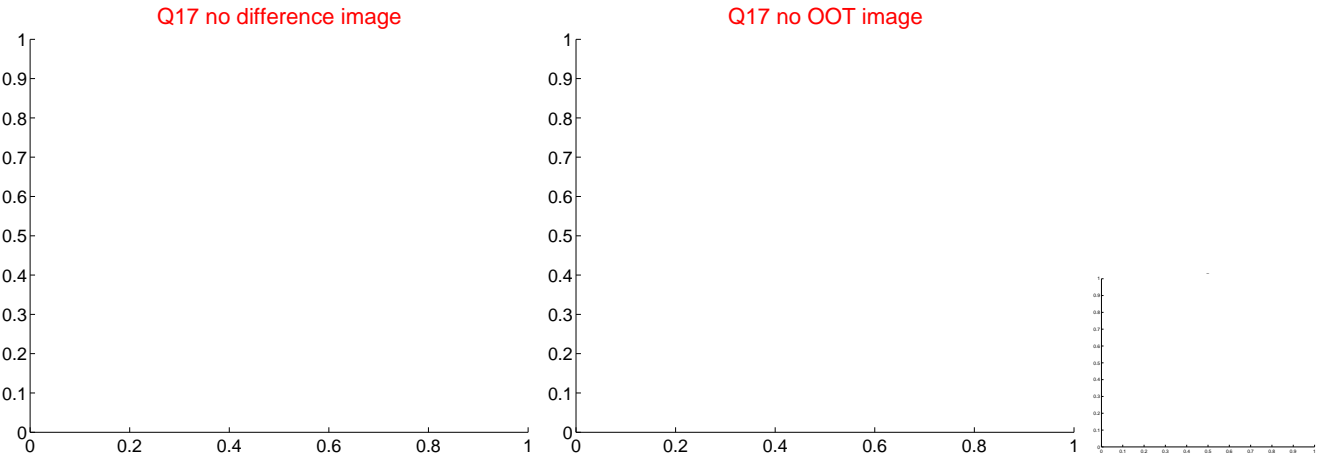
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



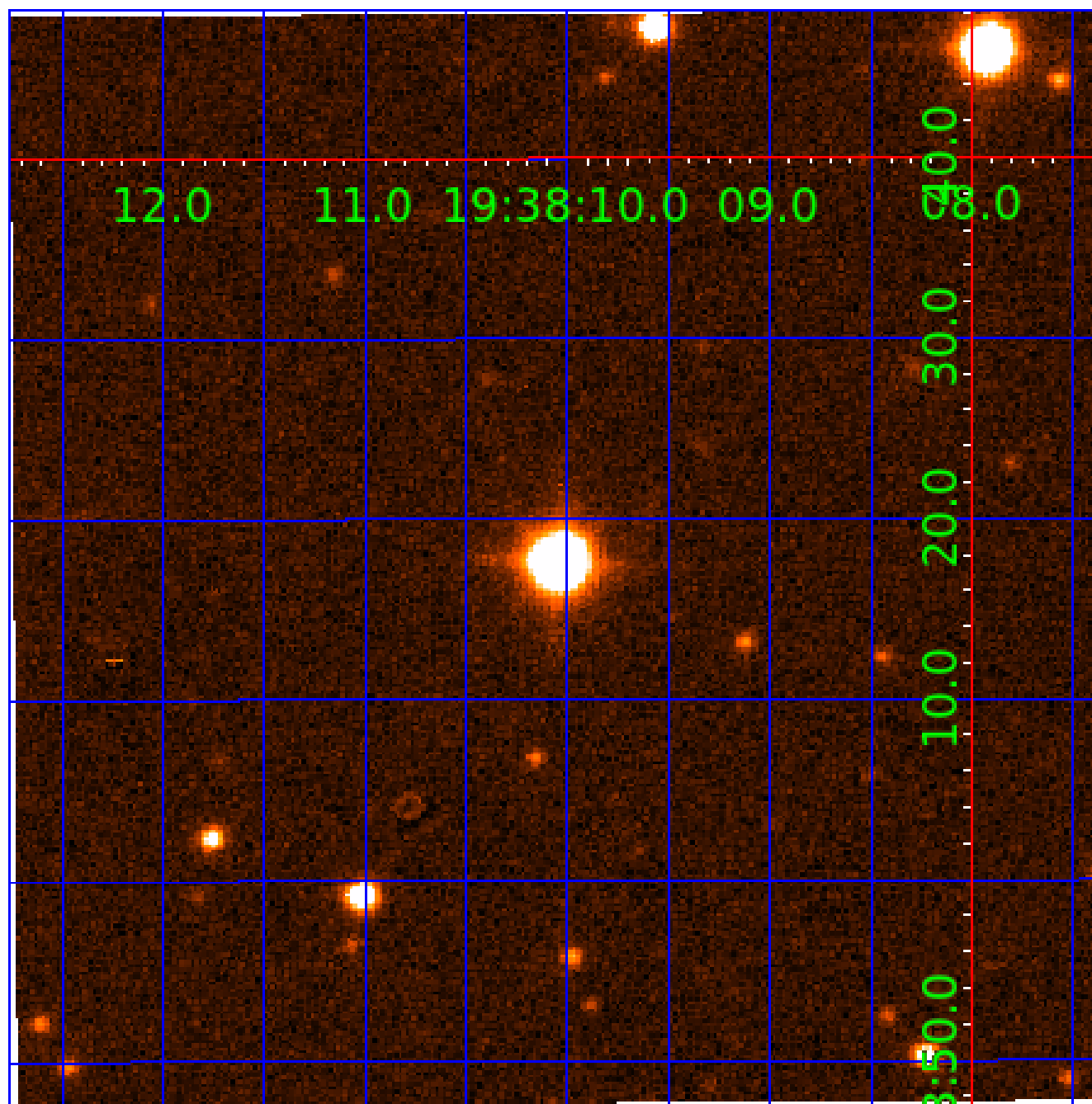
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 006214033

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})
006214033-01	OBS	No	0.934637	132.347948	6.5	7.043	7.6	10.3	3.15	8340	0.85	76367.48
006214033-02	OBS	No	45.953452	155.546616	288.1	2.000	14.7	-1.0	3.15	8340	5.42	423.98
006214033-03	OBS	No	12.501770	141.631967	113.2	1.389	18.4	16.7	3.15	8340	3.40	2405.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006214033-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006214033-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
006214033-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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

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

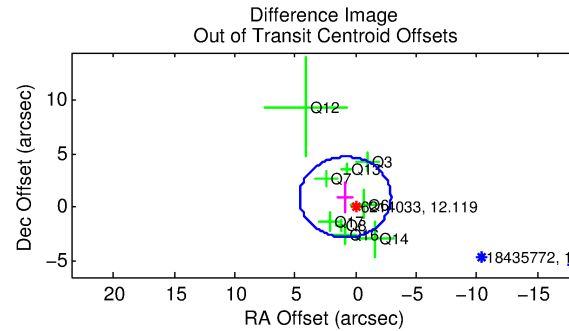
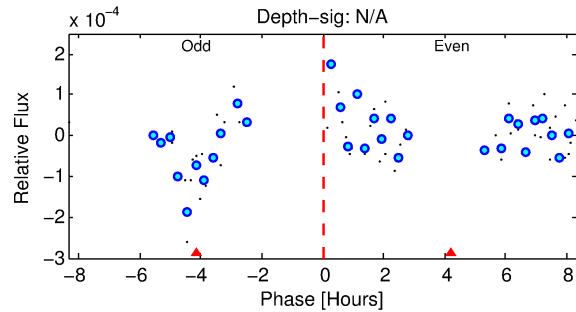
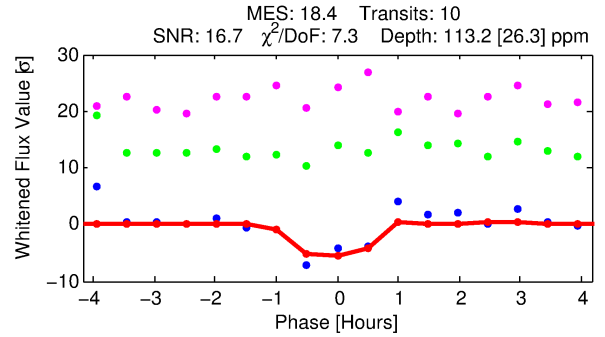
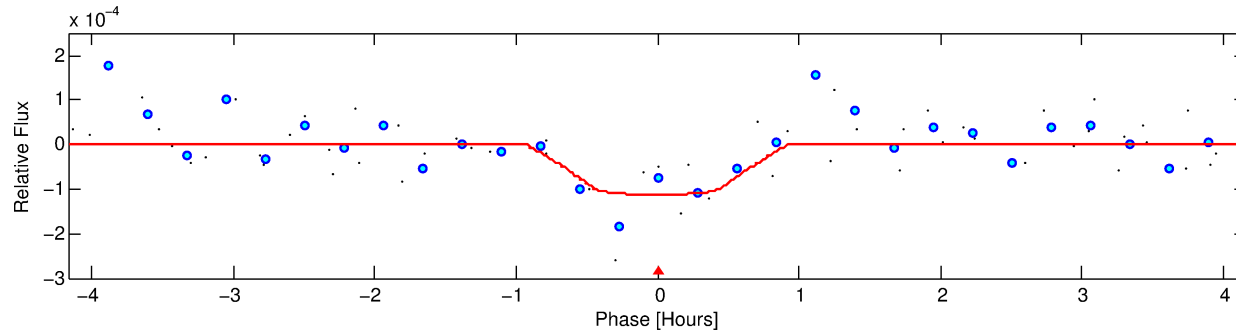
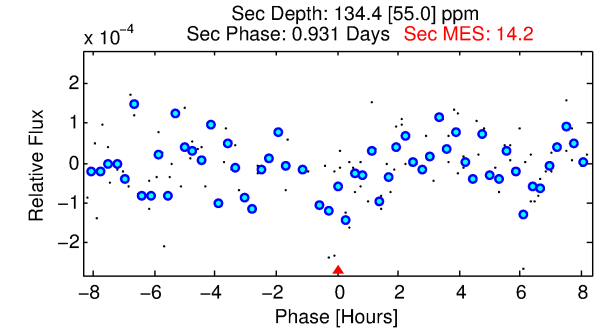
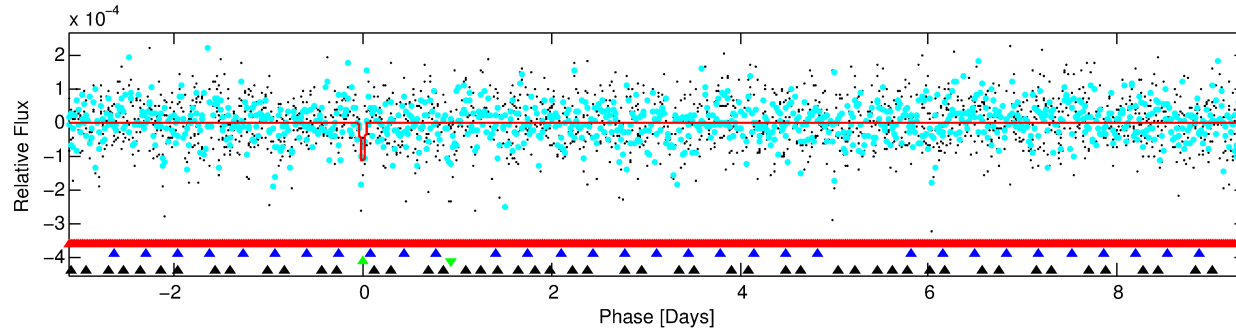
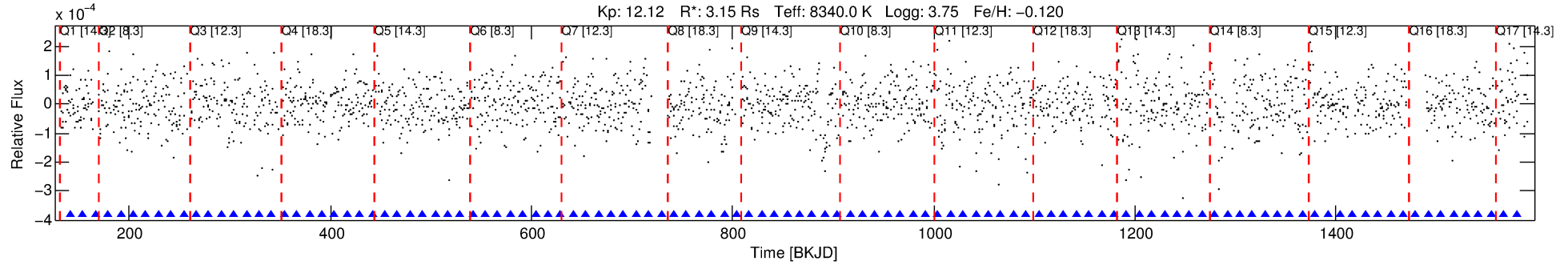
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006214033-03

No Significant Match Found

DV One-Page Summary

KIC: 6214033 Candidate: 3 of 4 Period: 12.502 d



DV Fit Results:

Period = 12.50177 [0.00029] d
Epoch = 141.6320 [0.0144] BKJD
Rp/R* = 0.0099 [0.1061]
a/R* = 69.32 [4215.17]
b = 0.07 [944.76]
Seff = 2405.12 [1842.79]
Teq = 1786 [342] K
Rp = 3.40 [36.52] Re
Ag = 0.1337 [0.0617] AU
Teffp = 9025 [48384] K [0.15σ]

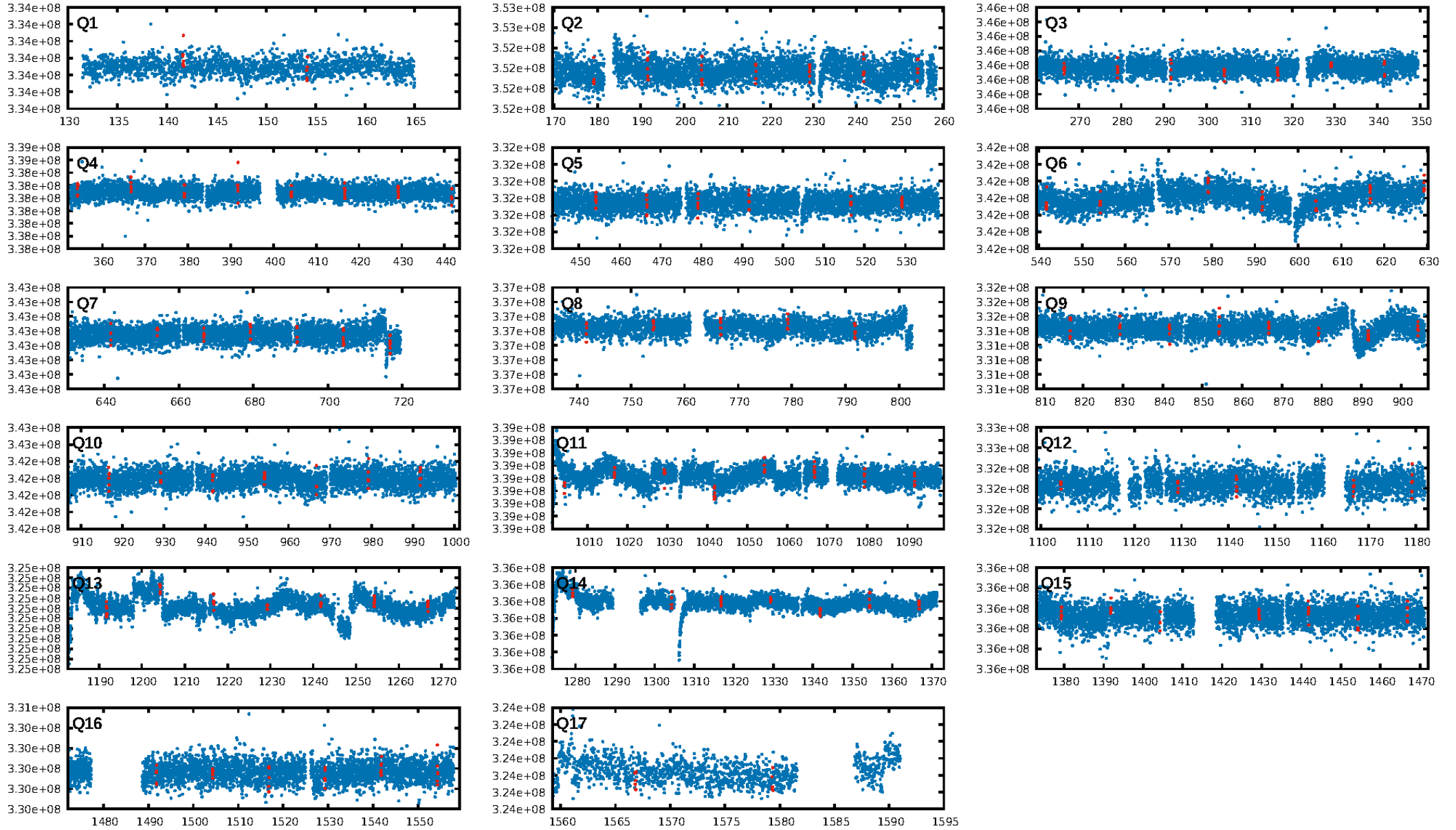
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [38.67σ]
LongPeriod-sig: 100.0% [147.07σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 6.94e-19
RollingBand-fgt: 1.00 [10/10]
GhostDiagnostic-chr: -0.9032
Centroid-sig: 50.8%
Centroid-so: 0.459 arcsec [0.94σ]
OotOffset-rm: 1.290 arcsec [1.02σ]
KicOffset-rm: 1.206 arcsec [0.90σ]
OotOffset-st: 2/2/3/2 [9]
KicOffset-st: 2/2/3/2 [9]
DiffImageQuality-fgm: 0.33 [3/9]
DiffImageOverlap-fno: 0.76 [13/17]

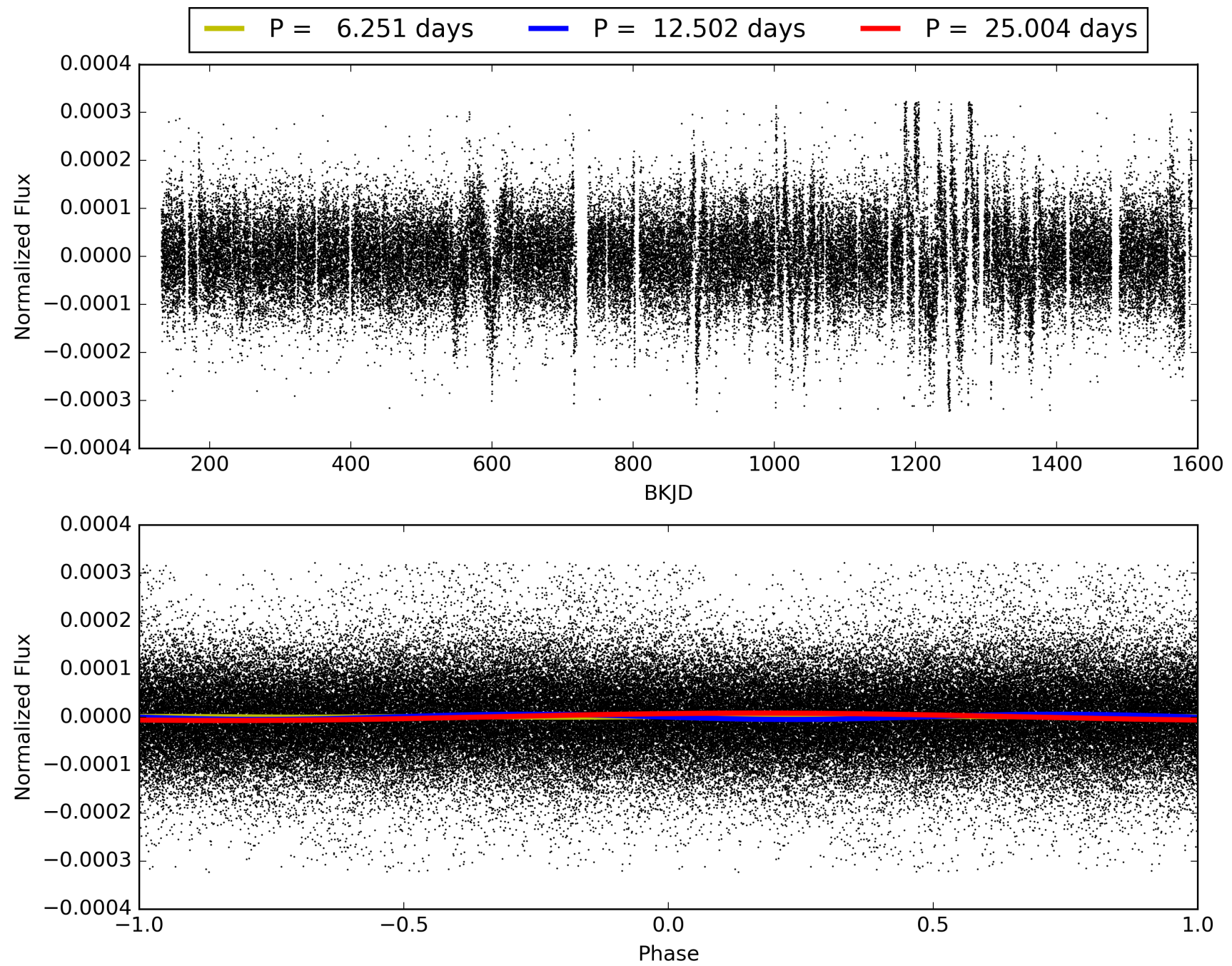
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:05:46 Z

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

TCE 006214033-03, PDC Light Curves

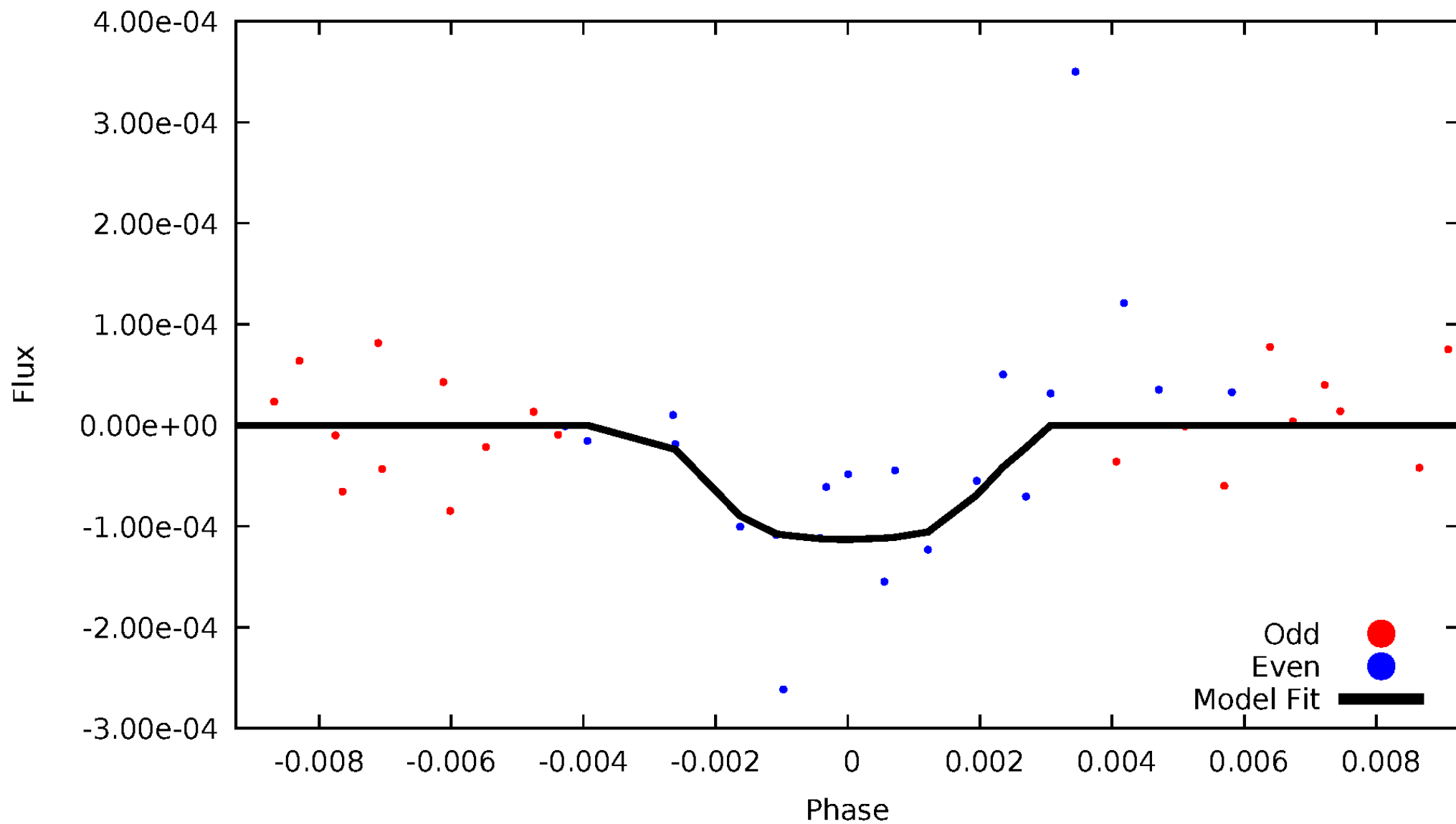


TCE 006214033-03



DV Odd/Even

TCE 006214033-03

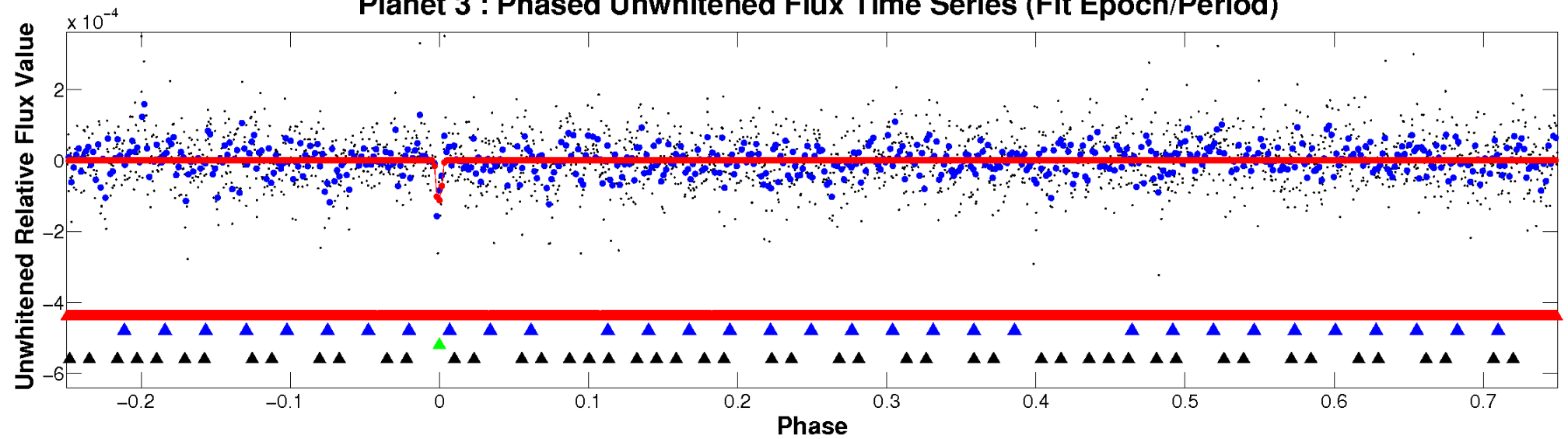


ALT Odd/Even

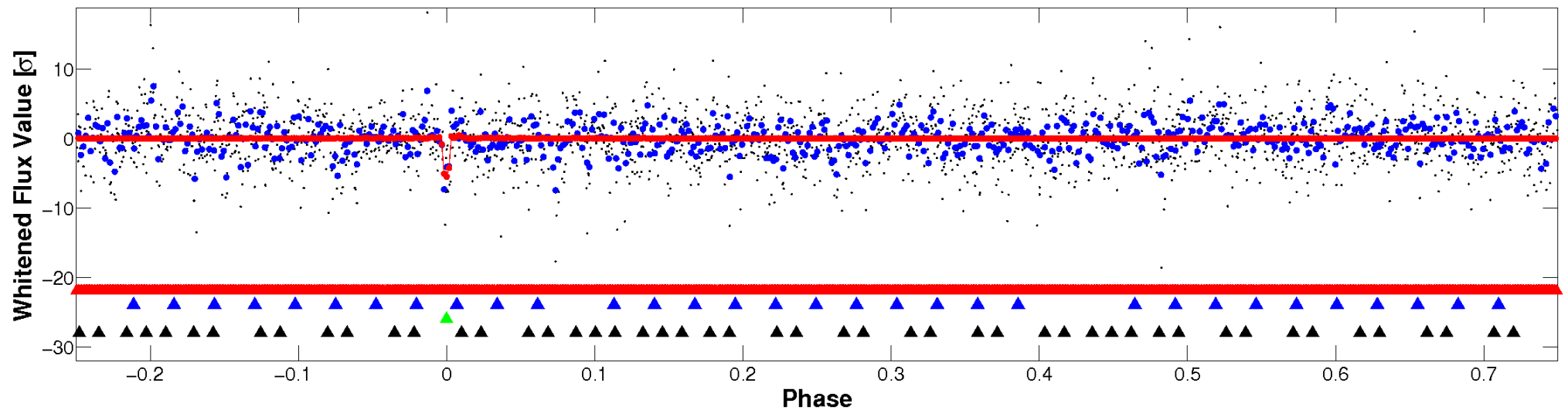
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

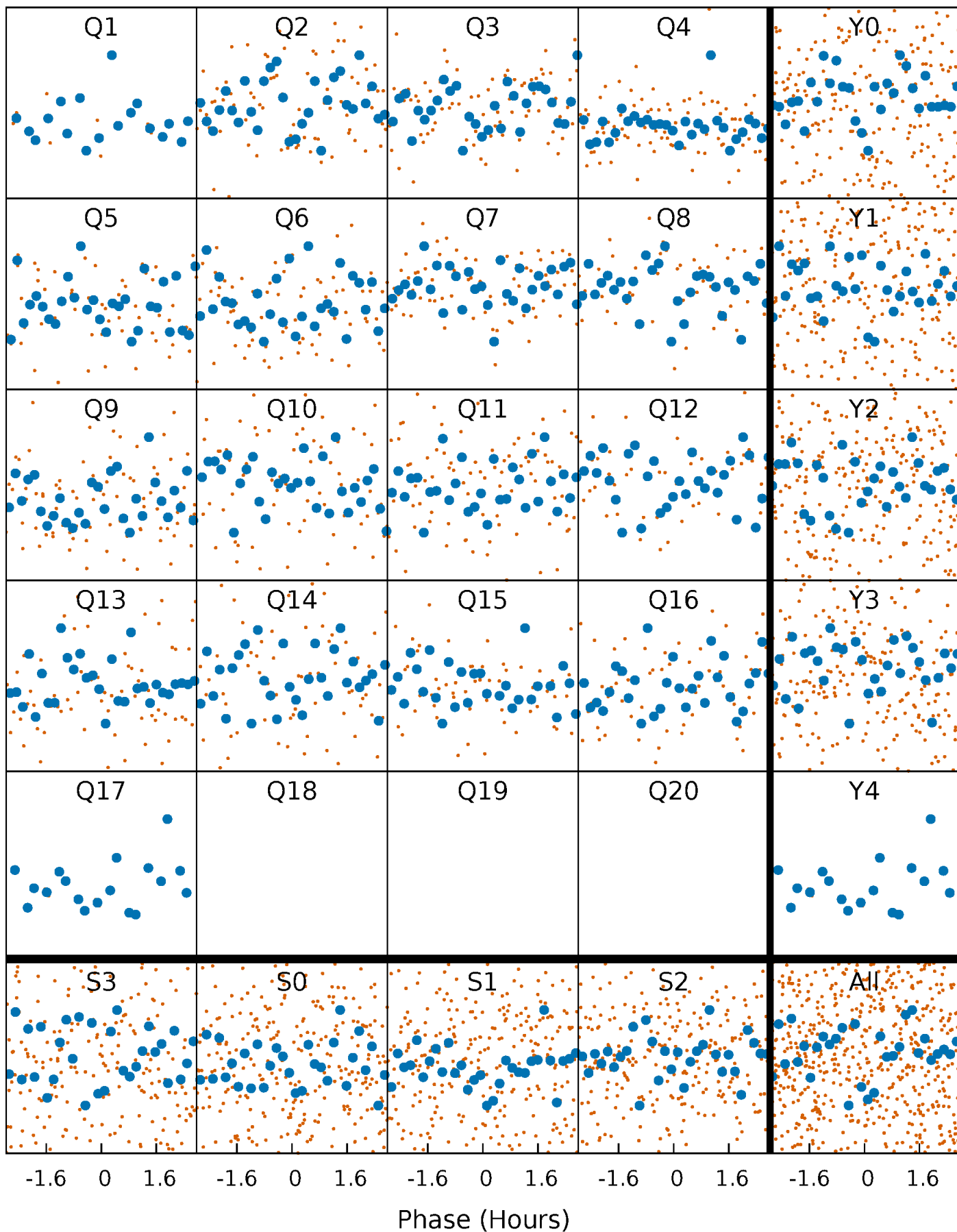


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



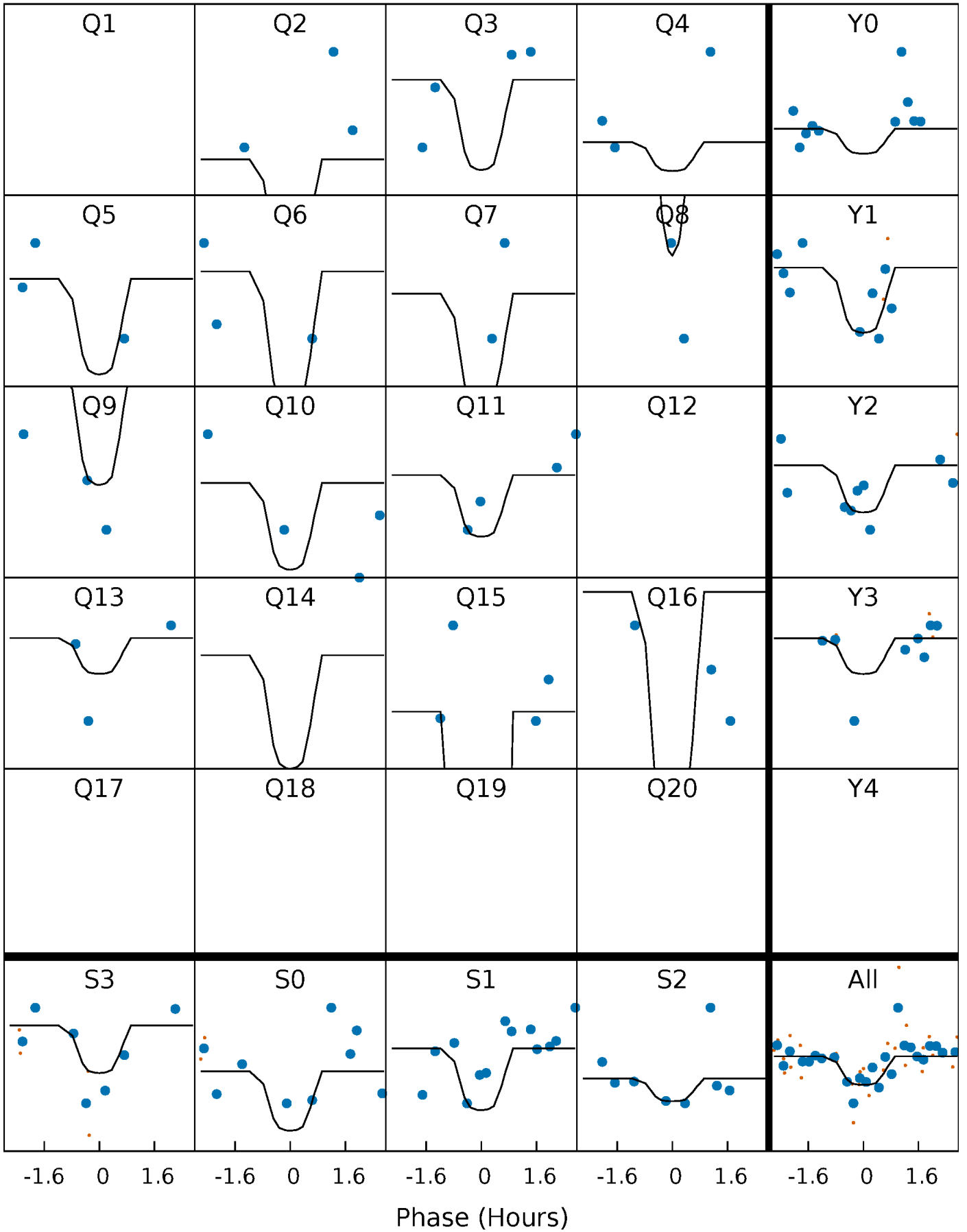
PDC Quarter-Phased Transit Curves

TCE 006214033-03 P= 12.501770 Days $T_0=141.631967$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006214033-03 P= 12.501770 Days $T_0=141.631967$ (BKJD)

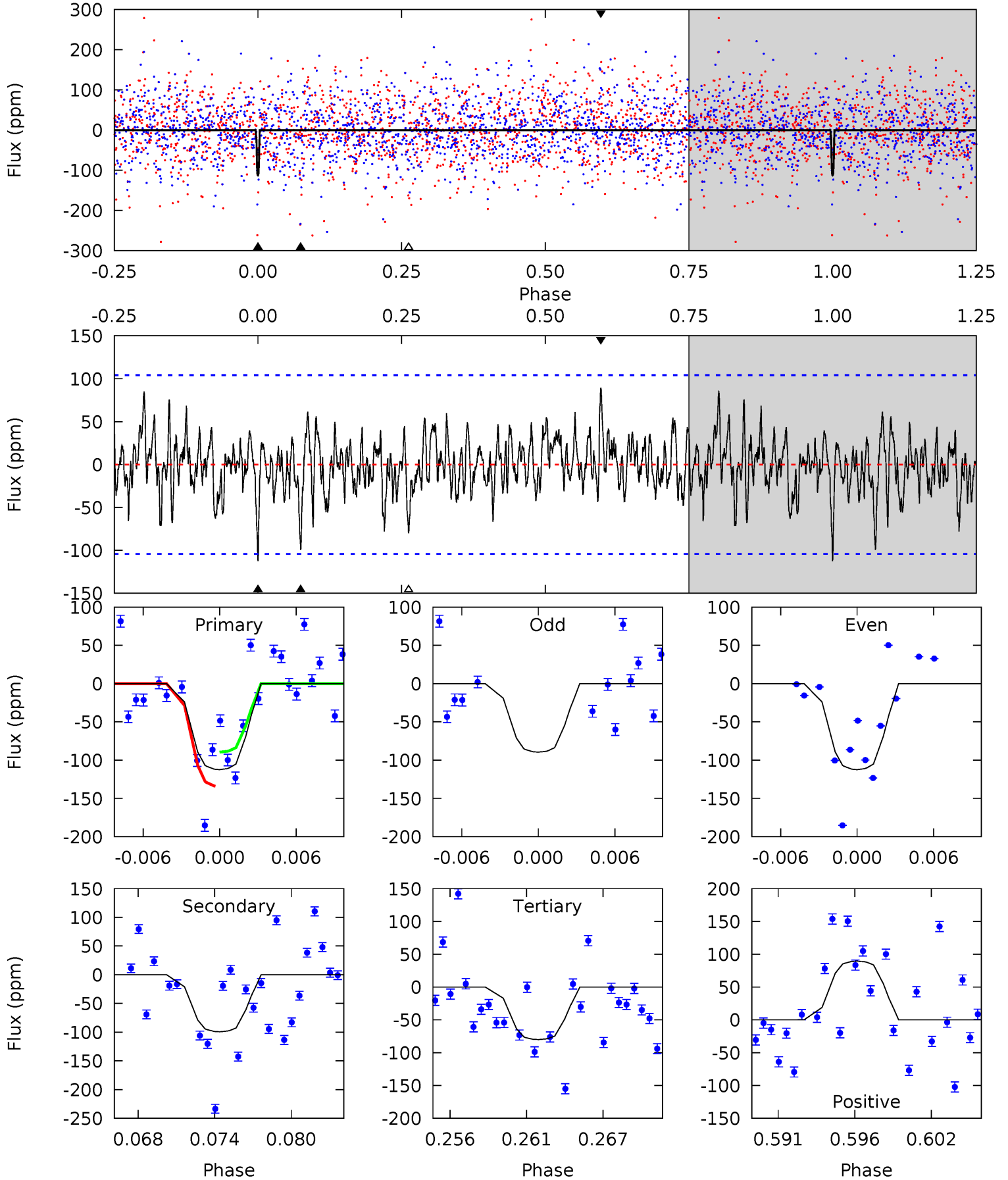


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006214033-03, $P = 12.501770$ Days, $E = 129.130197$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.54	4.90	3.95	4.42	5.13	2.77	1.29	1.60	1.13	0.95	0.48	0.69	1.03	0.44	1.09



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006214033

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8340^{+202}_{-375}	$3.751^{+0.440}_{-0.138}$	$-0.120^{+0.300}_{-0.350}$	$3.150^{+0.799}_{-1.483}$	$2.039^{+0.321}_{-0.522}$	$0.092^{+0.366}_{-0.038}$
	+2%/-4%	+12%/-4%	+250%/-292%	+25%/-47%	+16%/-26%	+399%/-41%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006214033-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-99±20	$24.33^{+28.04}_{-16.01}$	2431^{+205}_{-308}	3250^{+1751}_{-1061}	$1.637^{+12.933}_{-1.288}$
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

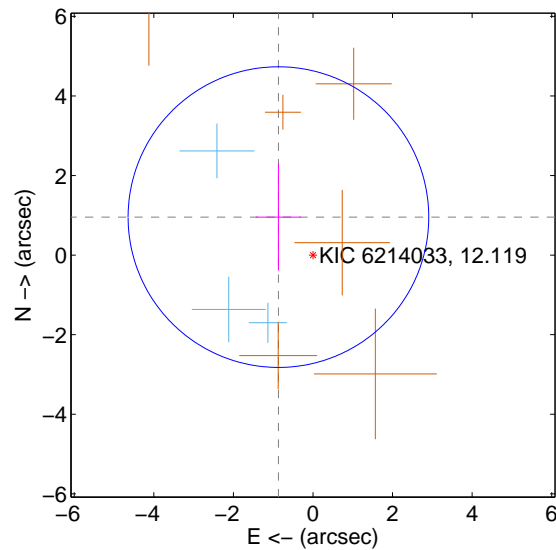
Supplemental centroid analysis for 006214033-03. Kepler magnitude: 12.12. Transit SNR 16.75

There are 3 quarters with good PRF difference image offsets

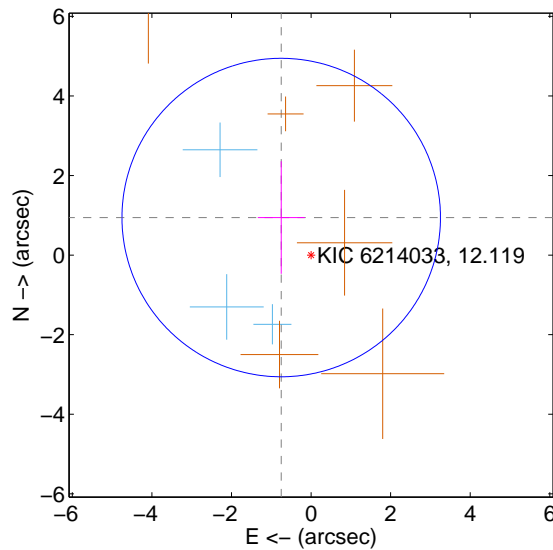
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.290 ± 1.259	1.02	0.868 ± 0.569	0.955 ± 1.342
PRF-fit source offset from KIC position	1.206 ± 1.334	0.90	0.750 ± 0.590	0.944 ± 1.415
photometric centroid source offset	0.46 ± 0.49	0.94	-0.33 ± 0.50	-0.31 ± 0.48

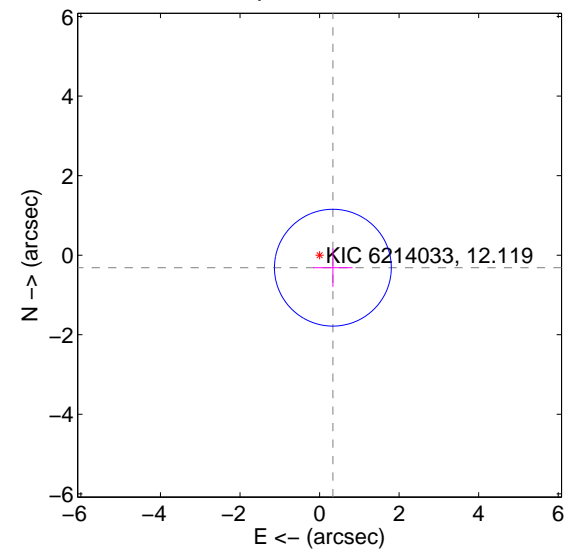
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

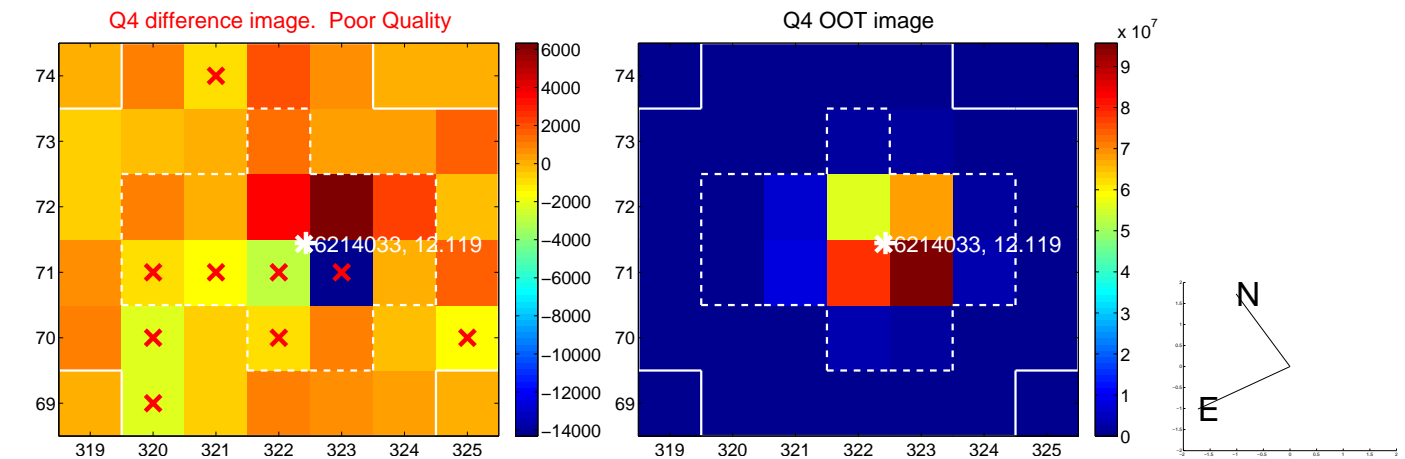
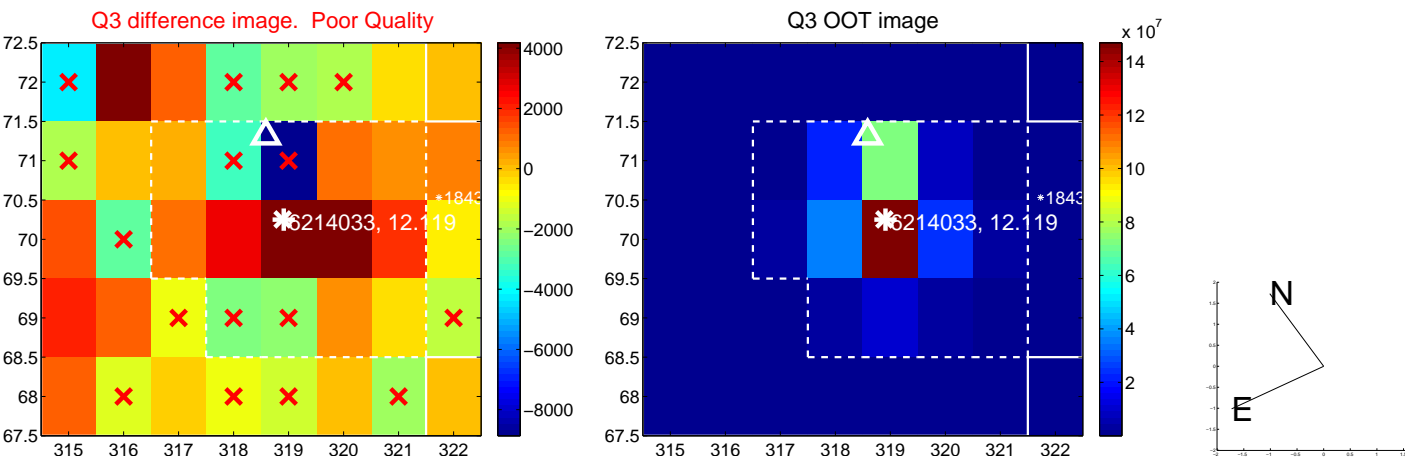
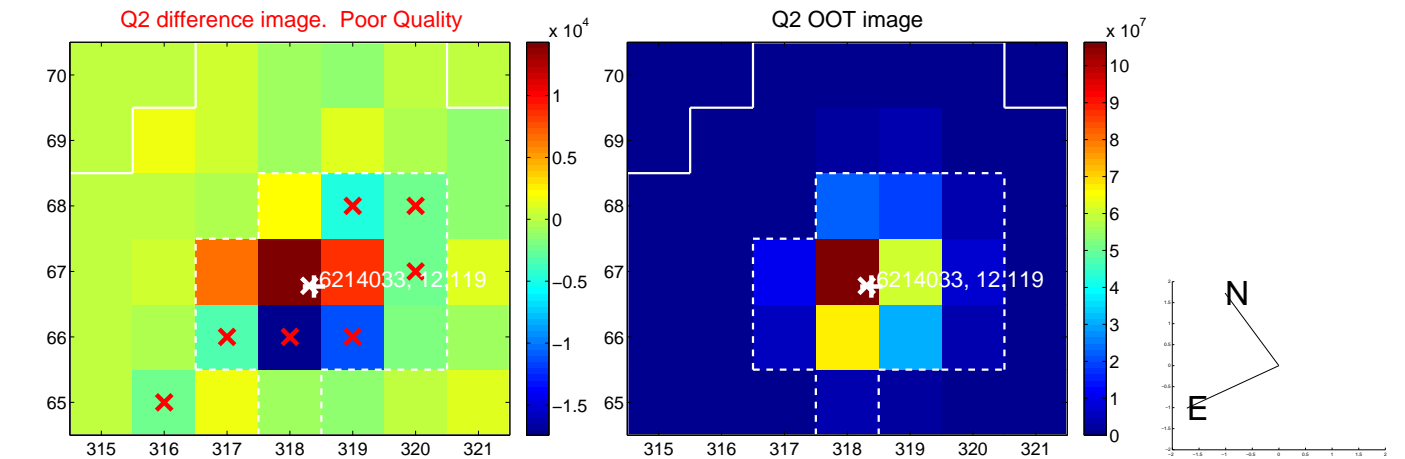
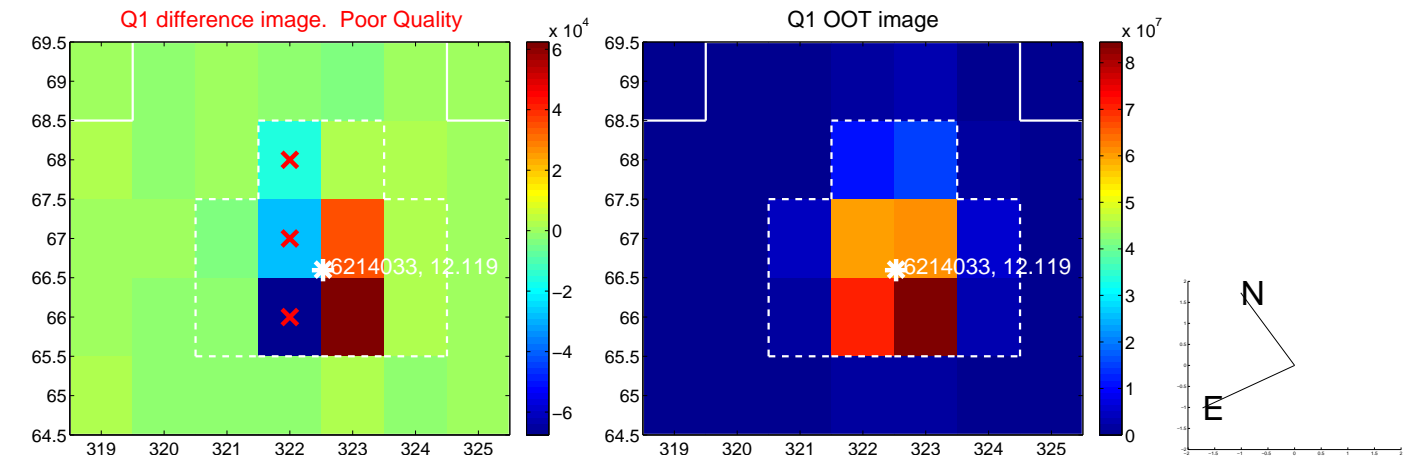


offset from photometric centroids

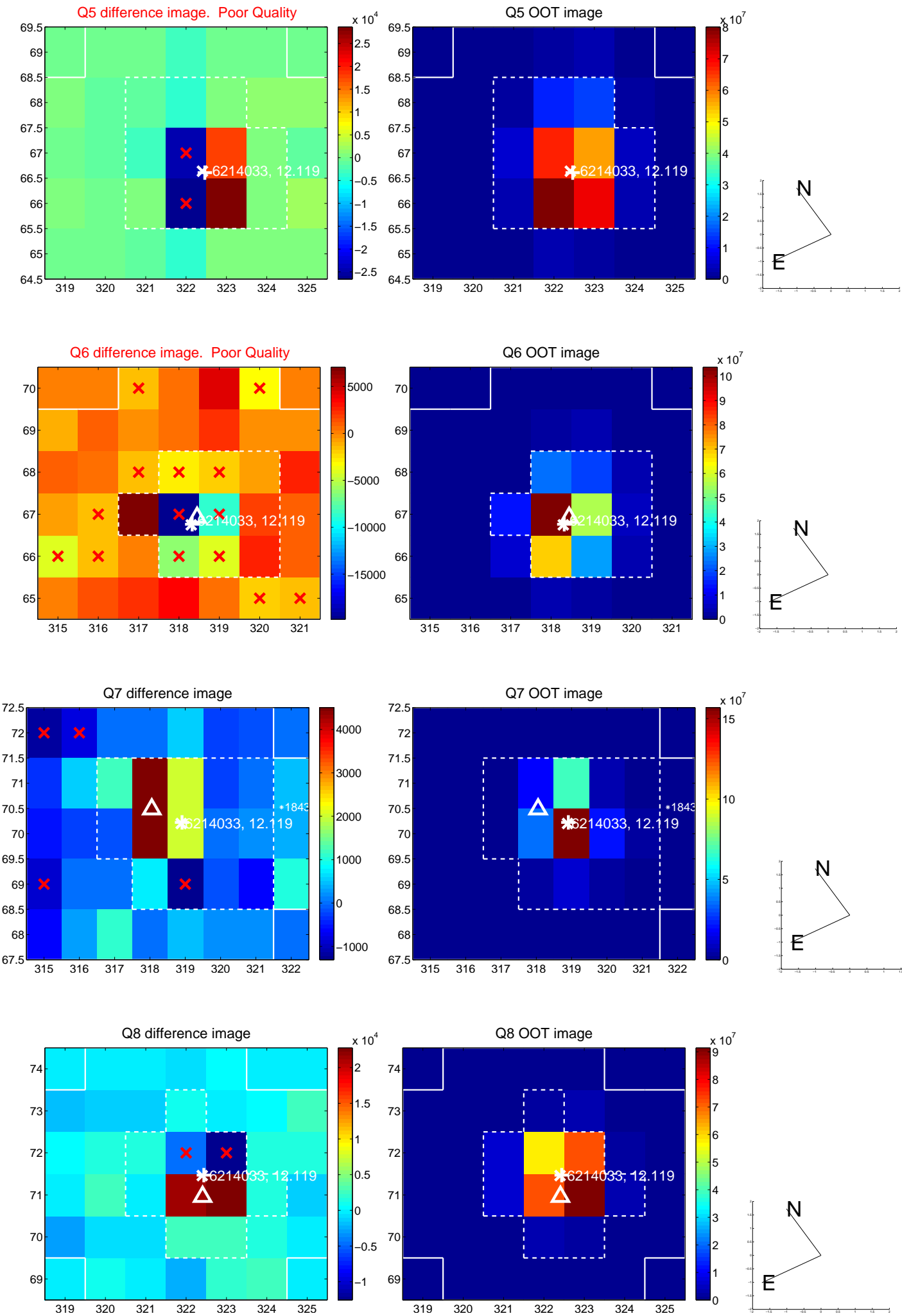


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

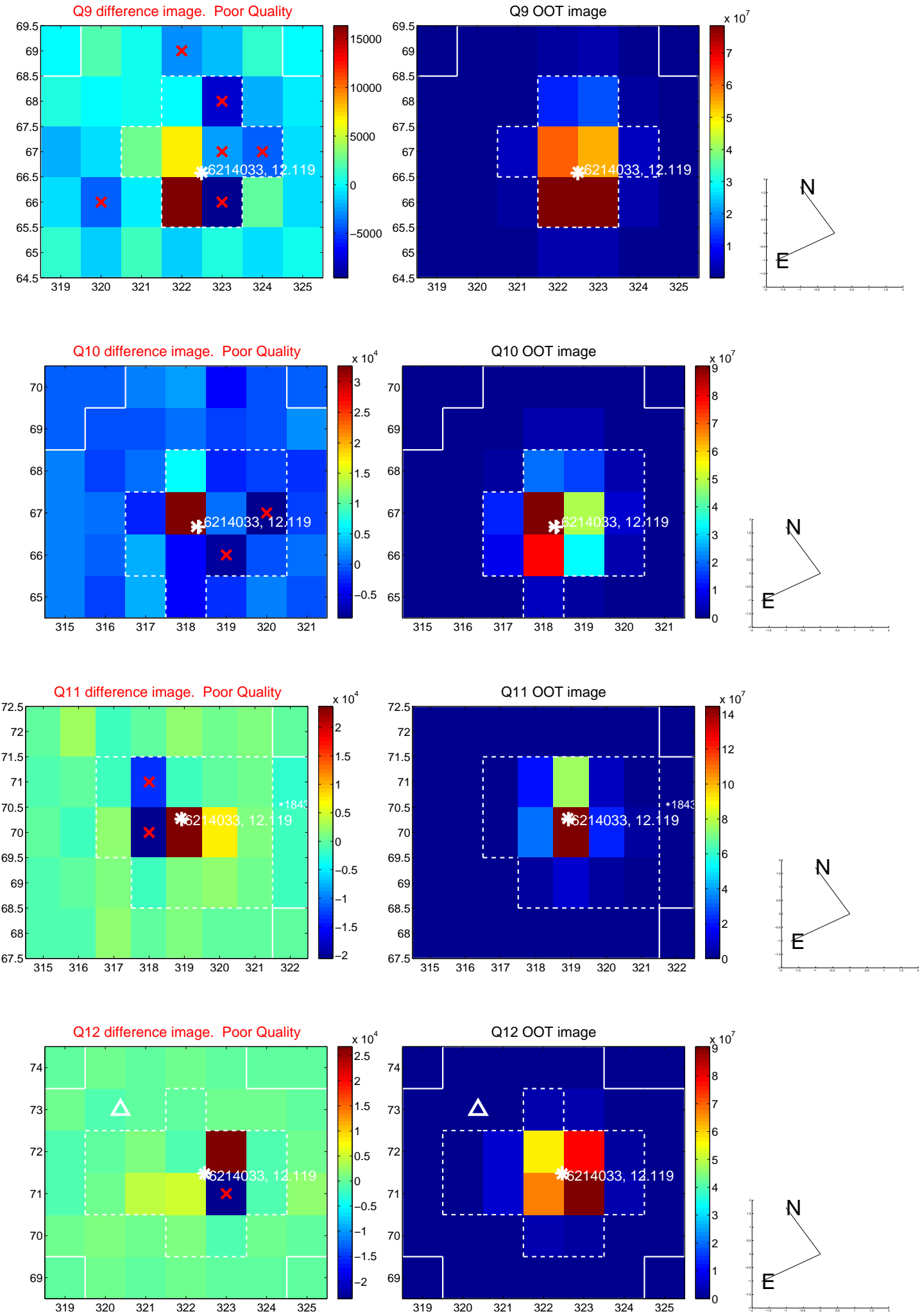
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



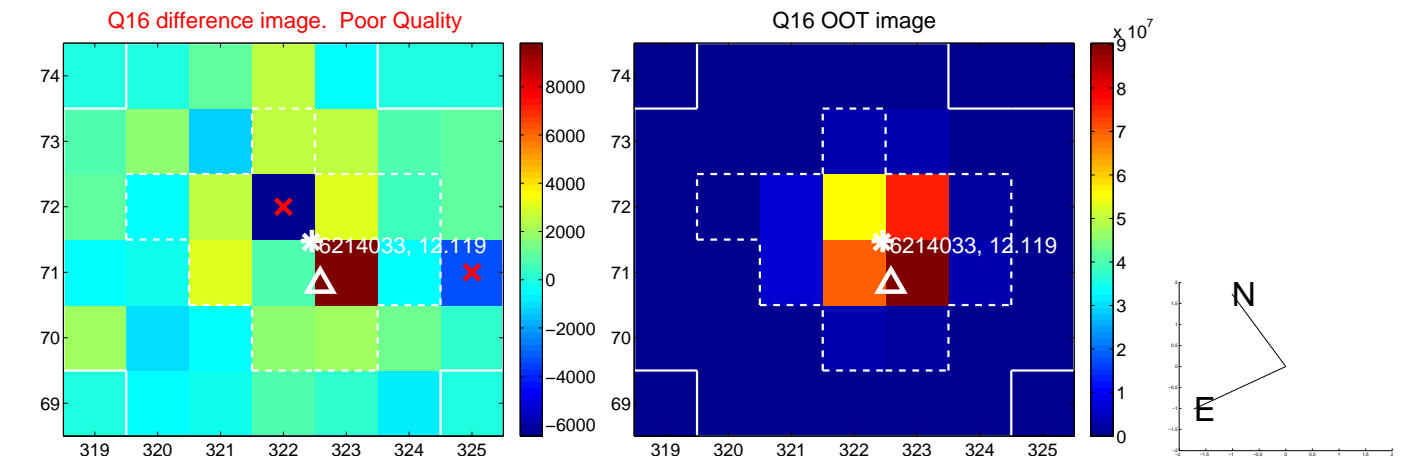
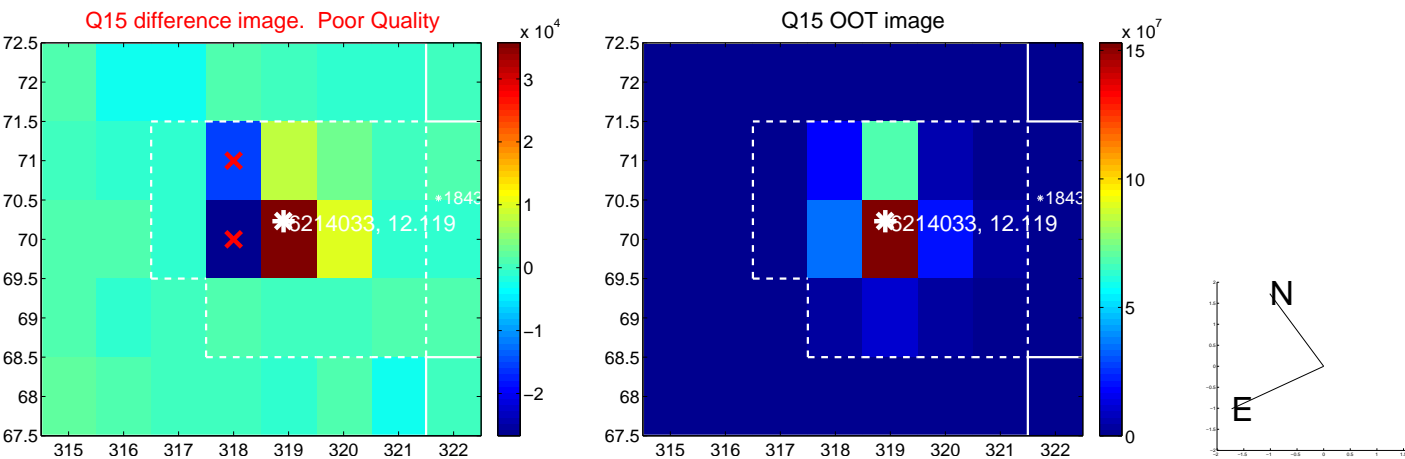
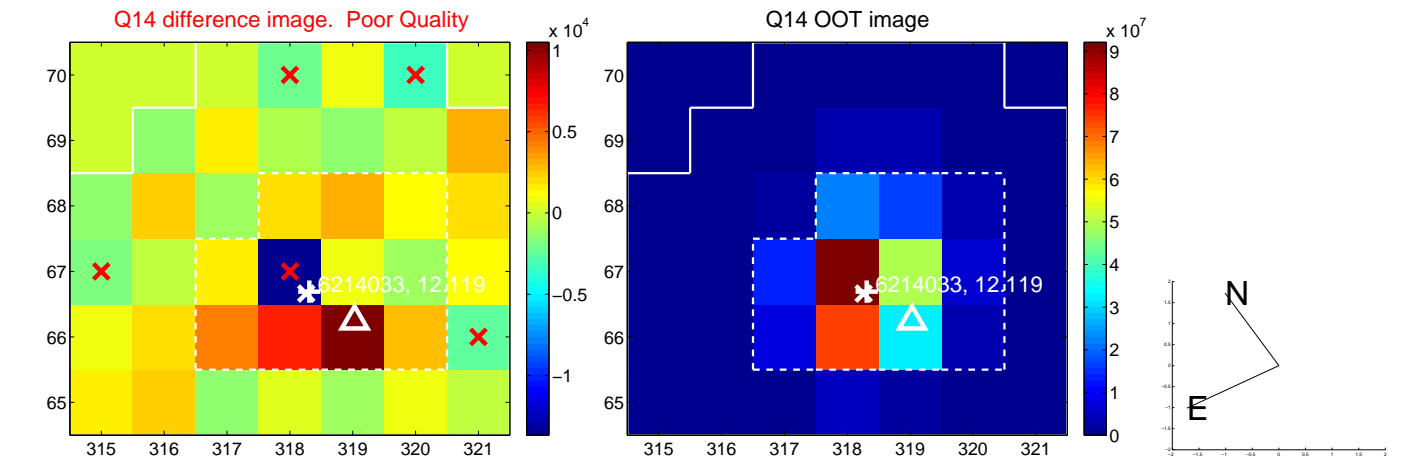
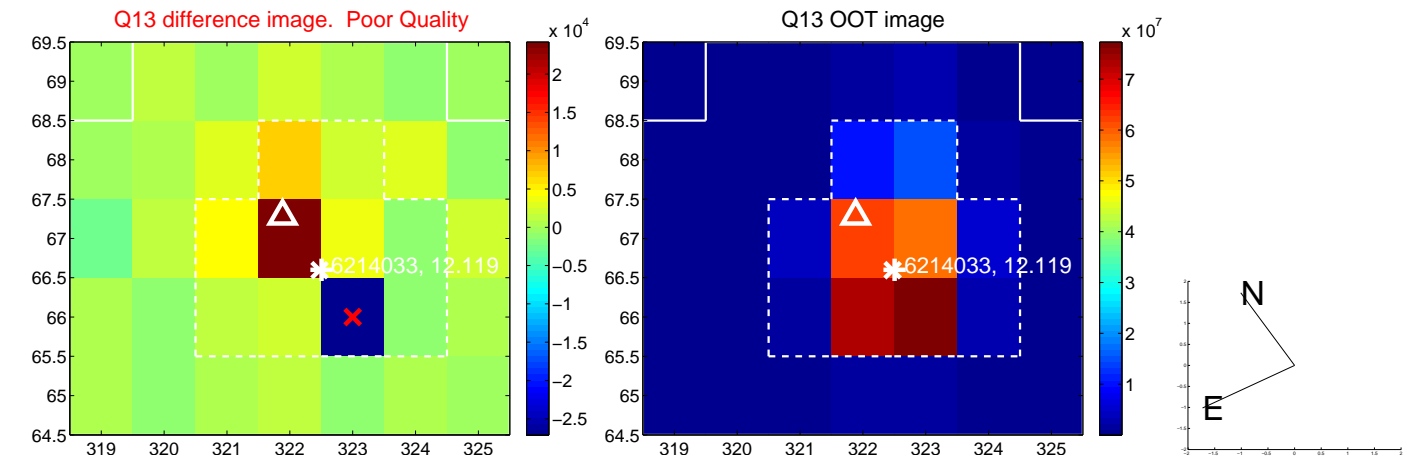
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



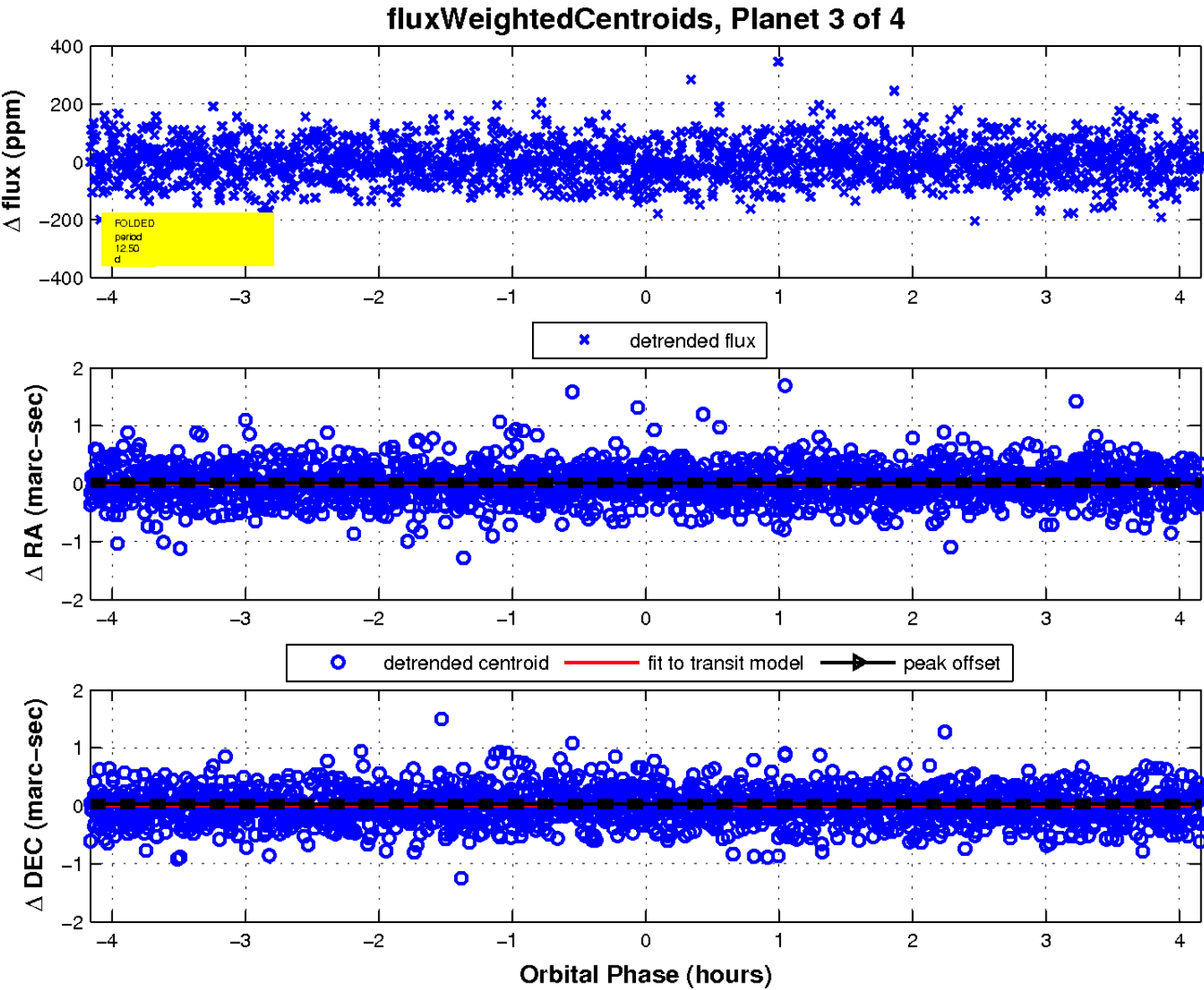
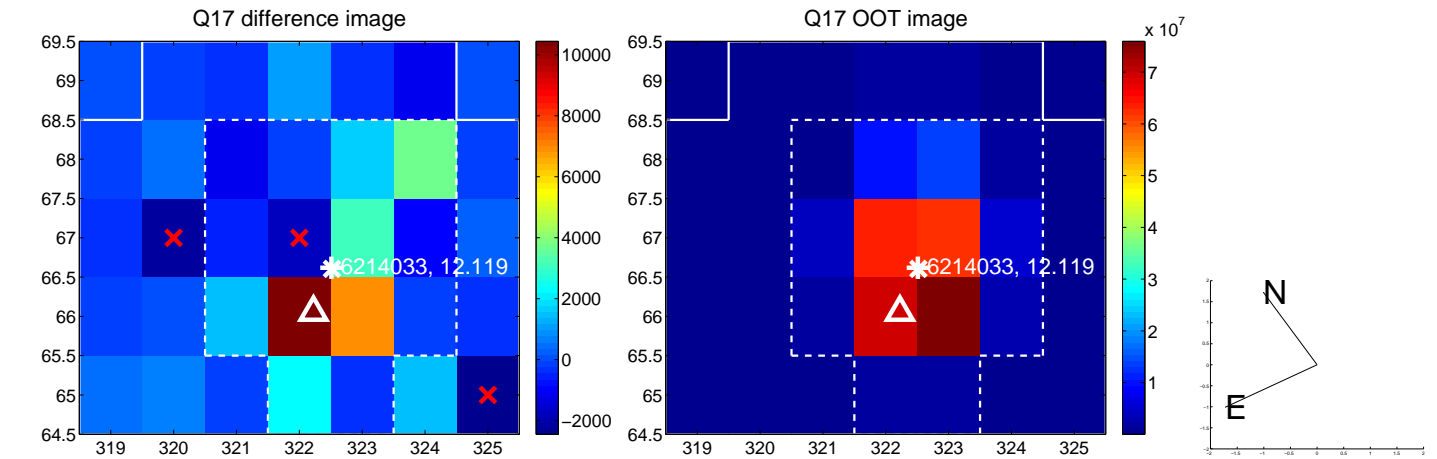
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

