

KIC 007200014

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})
007200014-01	OBS	No	0.566667	132.009540	0.8	4.261	8.4	0.4	2.87	5375	0.27	27457.42
007200014-02	OBS	No	4.316042	135.773812	125.4	1.578	14.8	11.8	2.87	5375	3.44	1832.24
007200014-03	OBS	No	8.398587	132.212887	253.2	1.474	15.4	17.3	2.87	5375	4.90	754.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007200014-01	OBS	FP	0.00	1	0	0	1	LPP_DV—LPP_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007200014-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS—HALO_GHOST
007200014-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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.

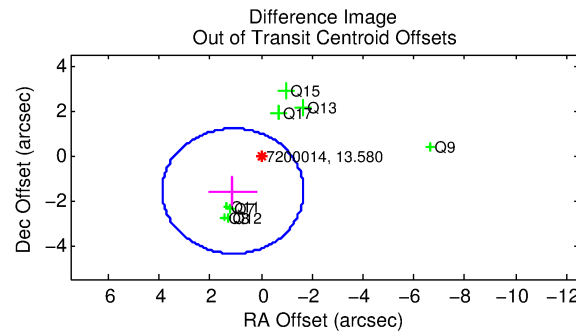
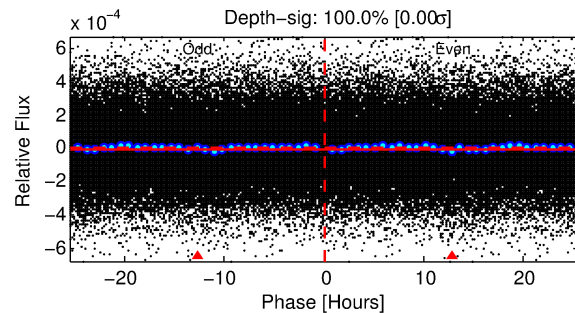
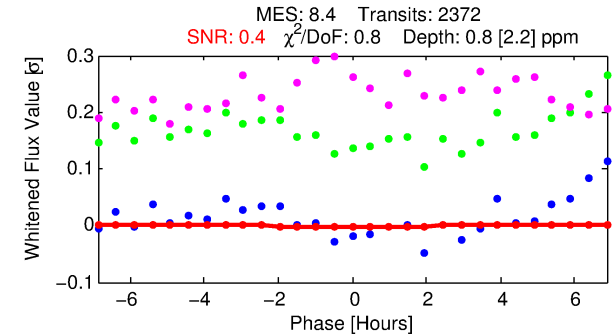
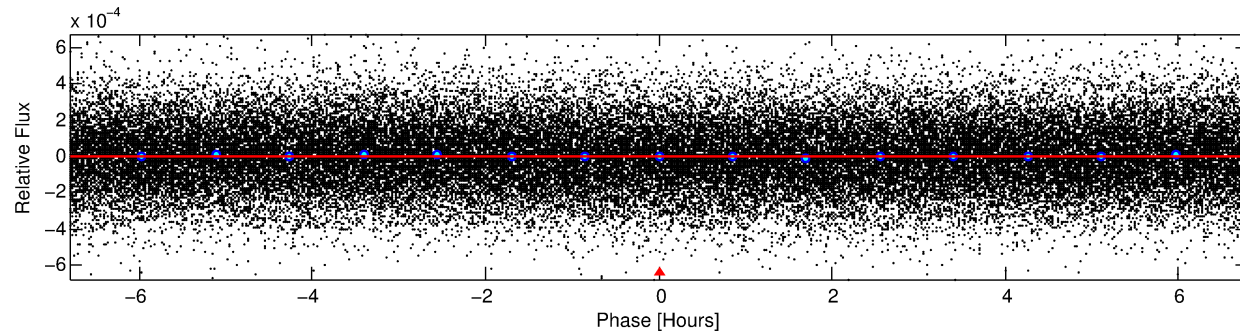
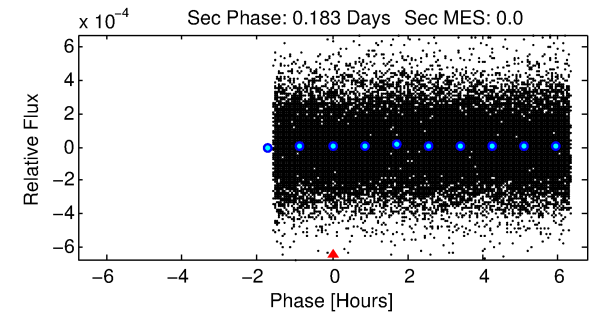
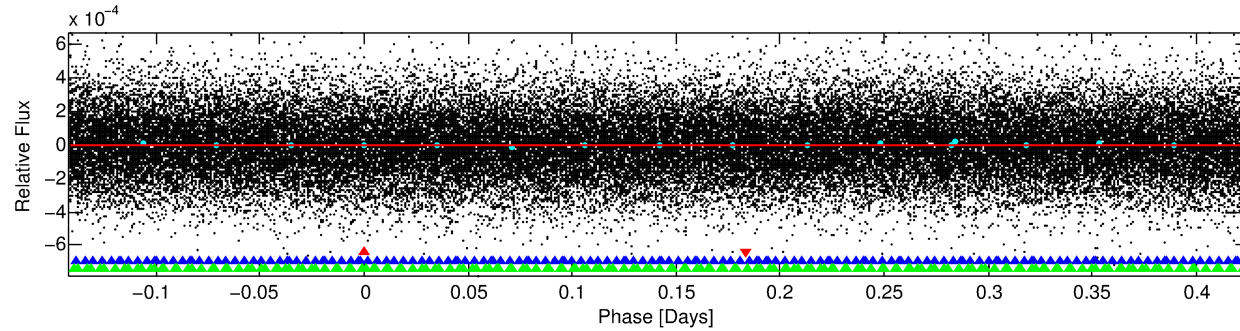
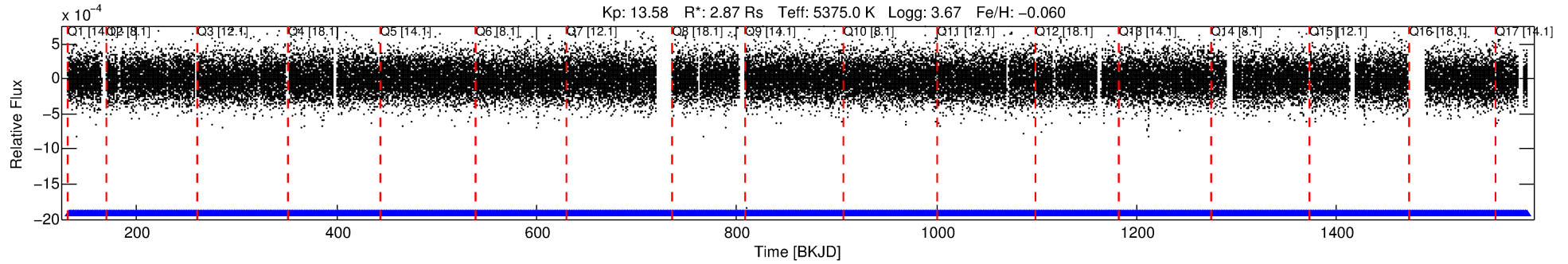
Ephemeris Match Information For 007200014-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (μ)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007200014-01	7200014	RR-Lyr-pri	7198959	1:1	846.5	146	154	7.86	13.58	623300.00	Direct-PRF	0	0.15	8.99

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7200014 Candidate: 1 of 3 Period: 0.567 d



DV Fit Results:

Period = 0.56667 [0.00024] d
Epoch = 132.0095 [0.1003] BKJD
Rp/R* = 0.0009 [0.0042]
a/R* = 1.11 [3.84]
b = 0.70 [13.85]
Seff = 27457.42 [36820.32]
Teq = 3282 [1100] K
Rp = 0.27 [1.31] Re
a = 0.0150 [0.0116] AU
Ag = N/A
Teffp = N/A

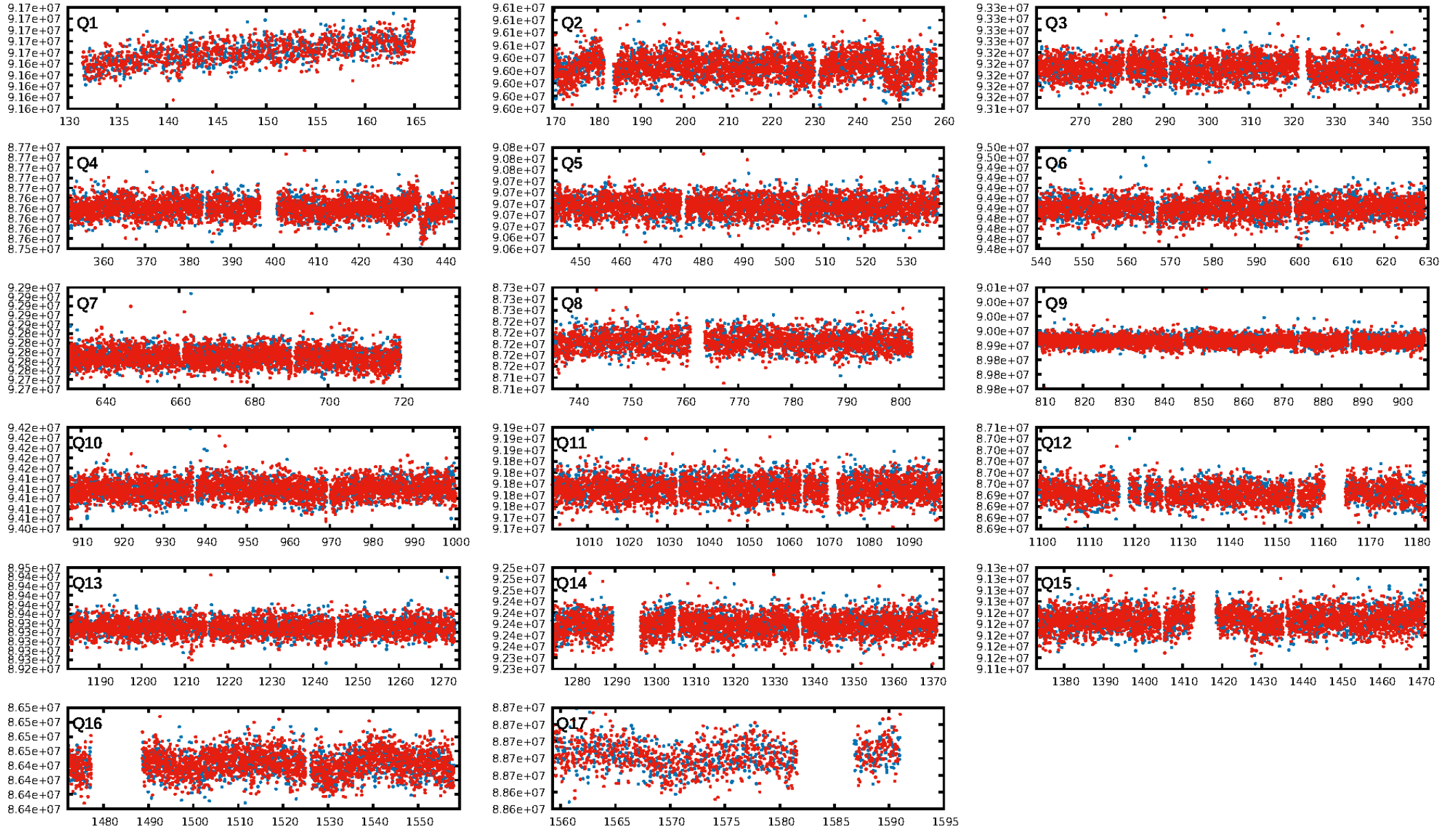
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [19.80σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.29e-02
RollingBand-fgt: 1.00 [2265/2265]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.934 arcsec [2.08σ]
KicOffset-rm: 1.891 arcsec [2.00σ]
OotOffset-st: 0/3/2/3 [8]
KicOffset-st: 0/3/2/3 [8]
DiffImageQuality-fgm: 0.62 [5/8]
DiffImageOverlap-fno: 1.00 [17/17]

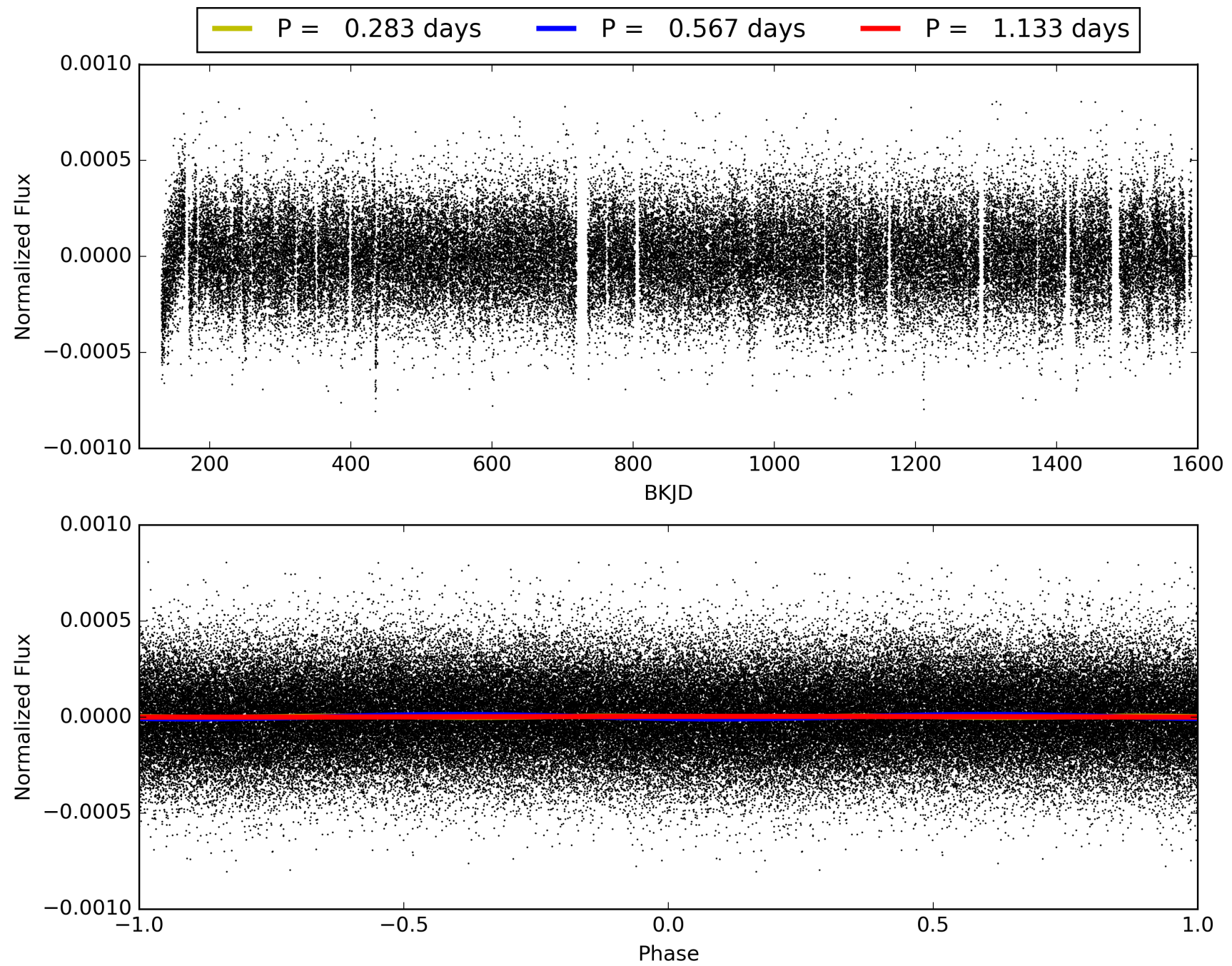
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007200014-01, PDC Light Curves

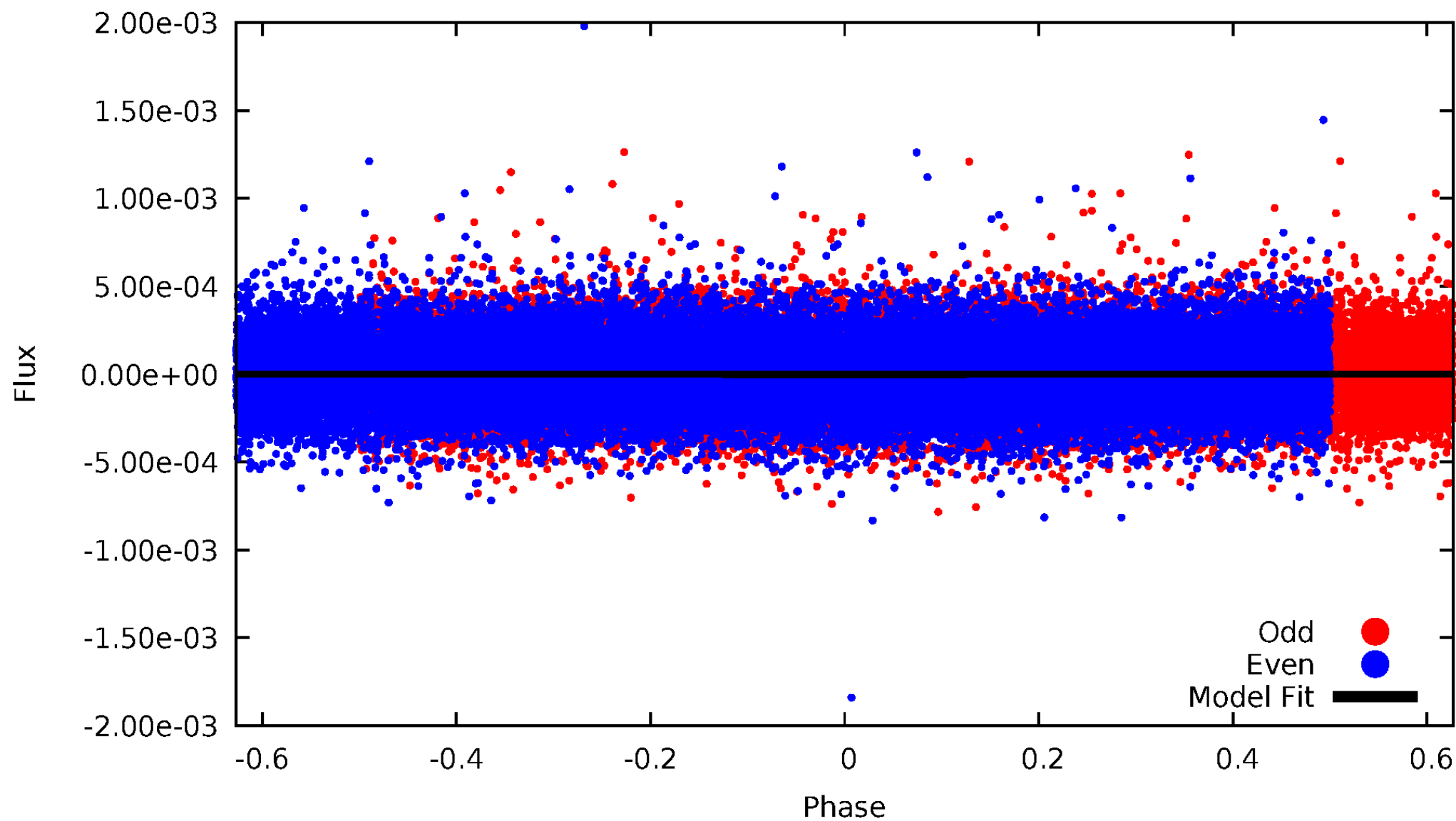


TCE 007200014-01



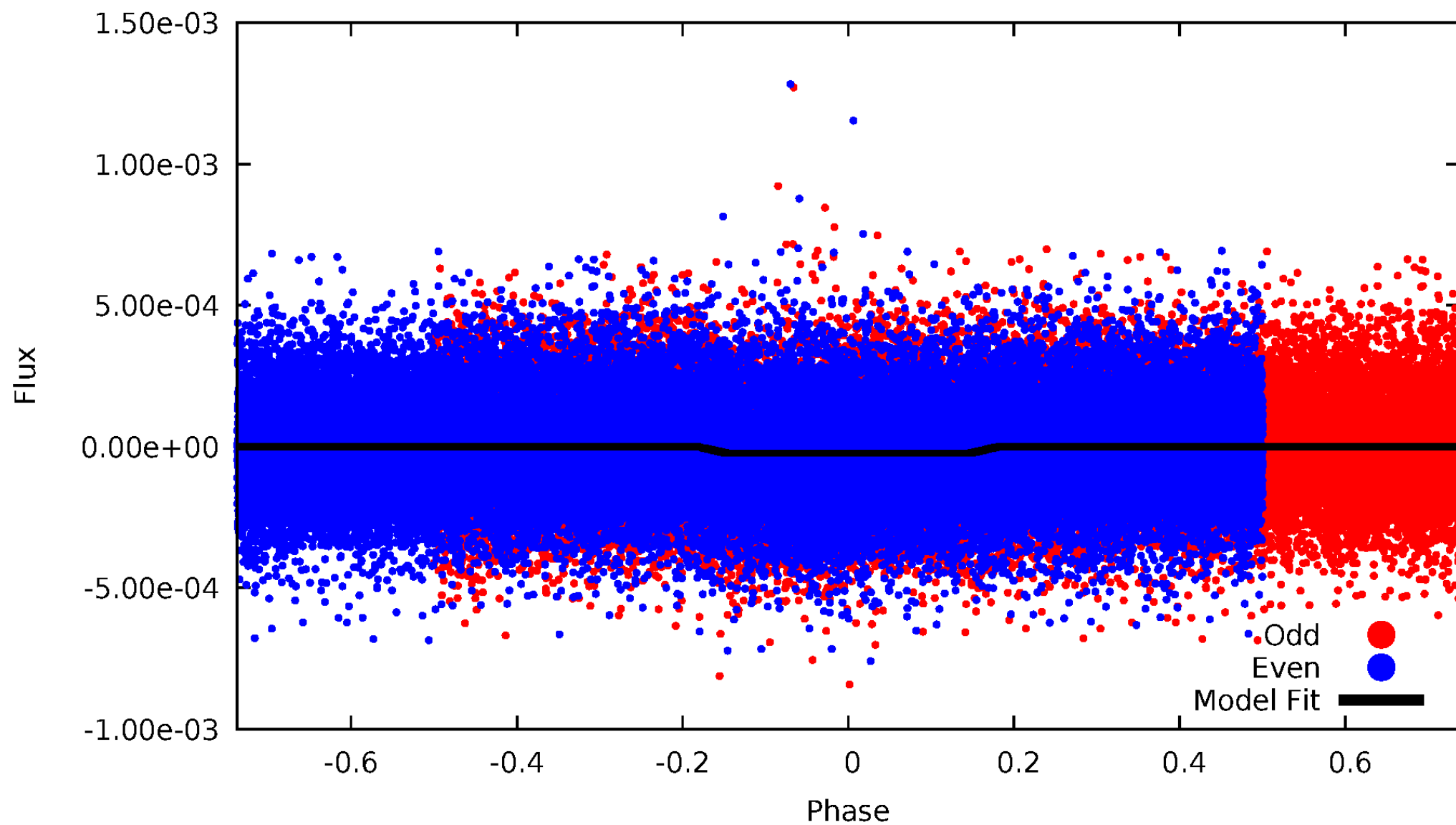
DV Odd/Even

TCE 007200014-01

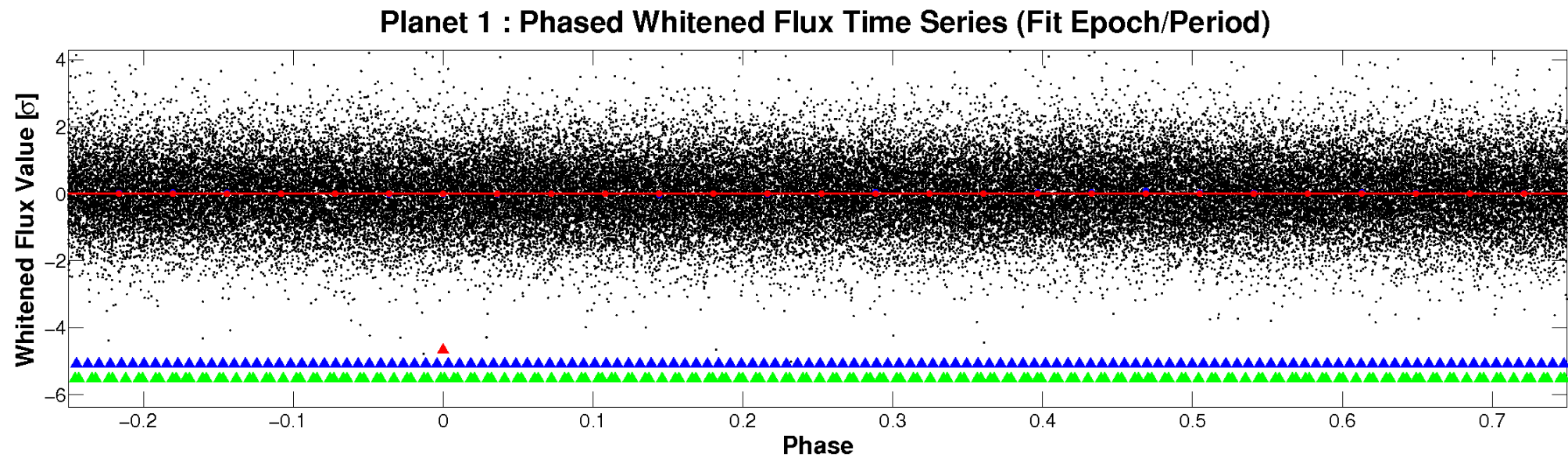
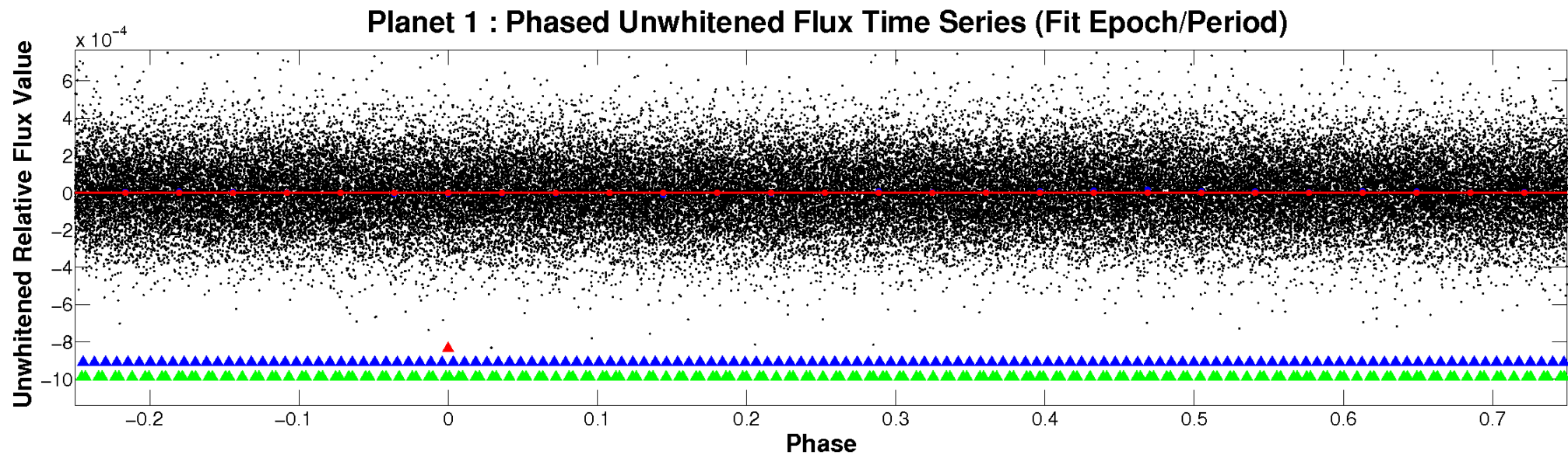


ALT Odd/Even

TCE 007200014-01

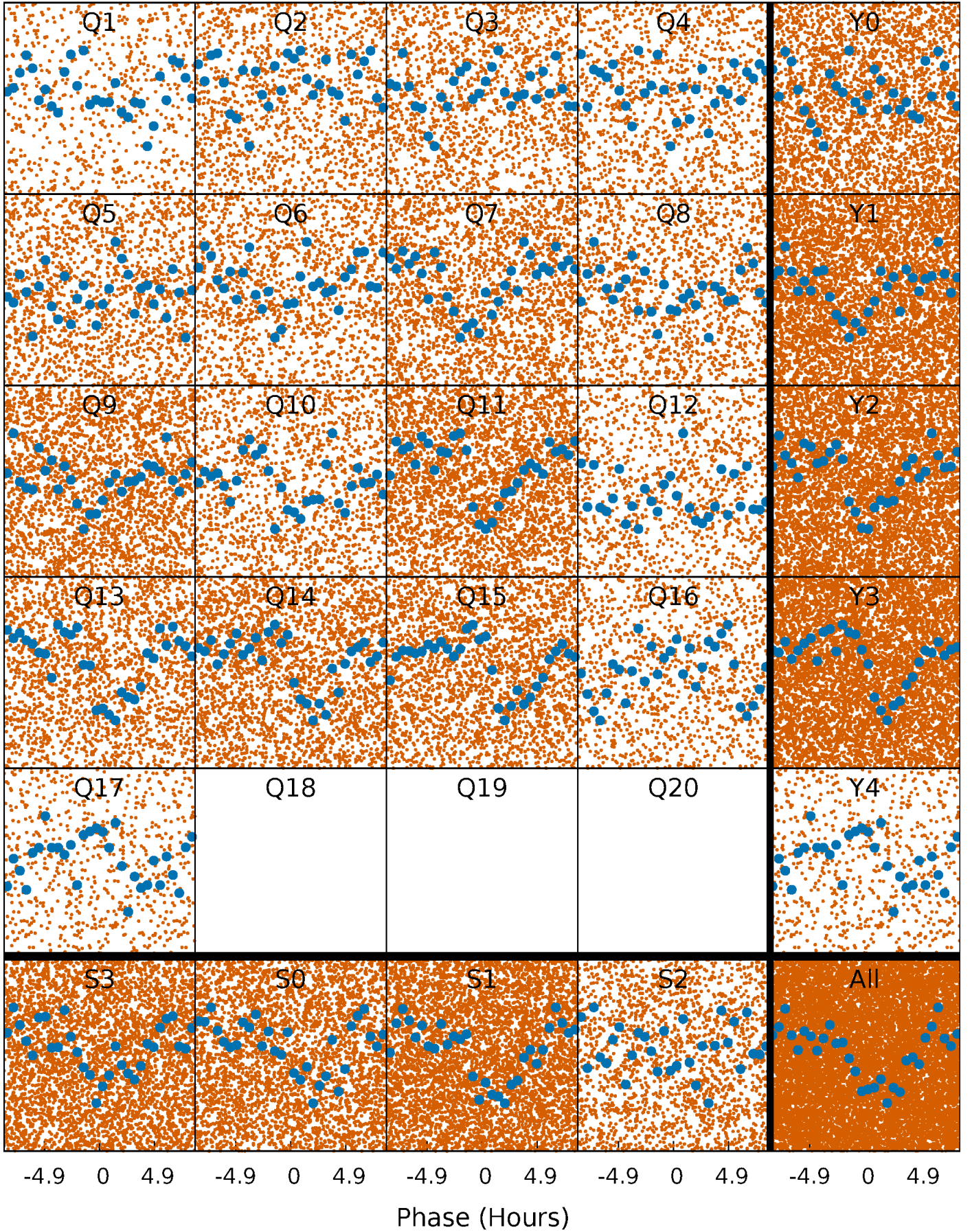


Non-Whitened Vs. Whitened Light Curve



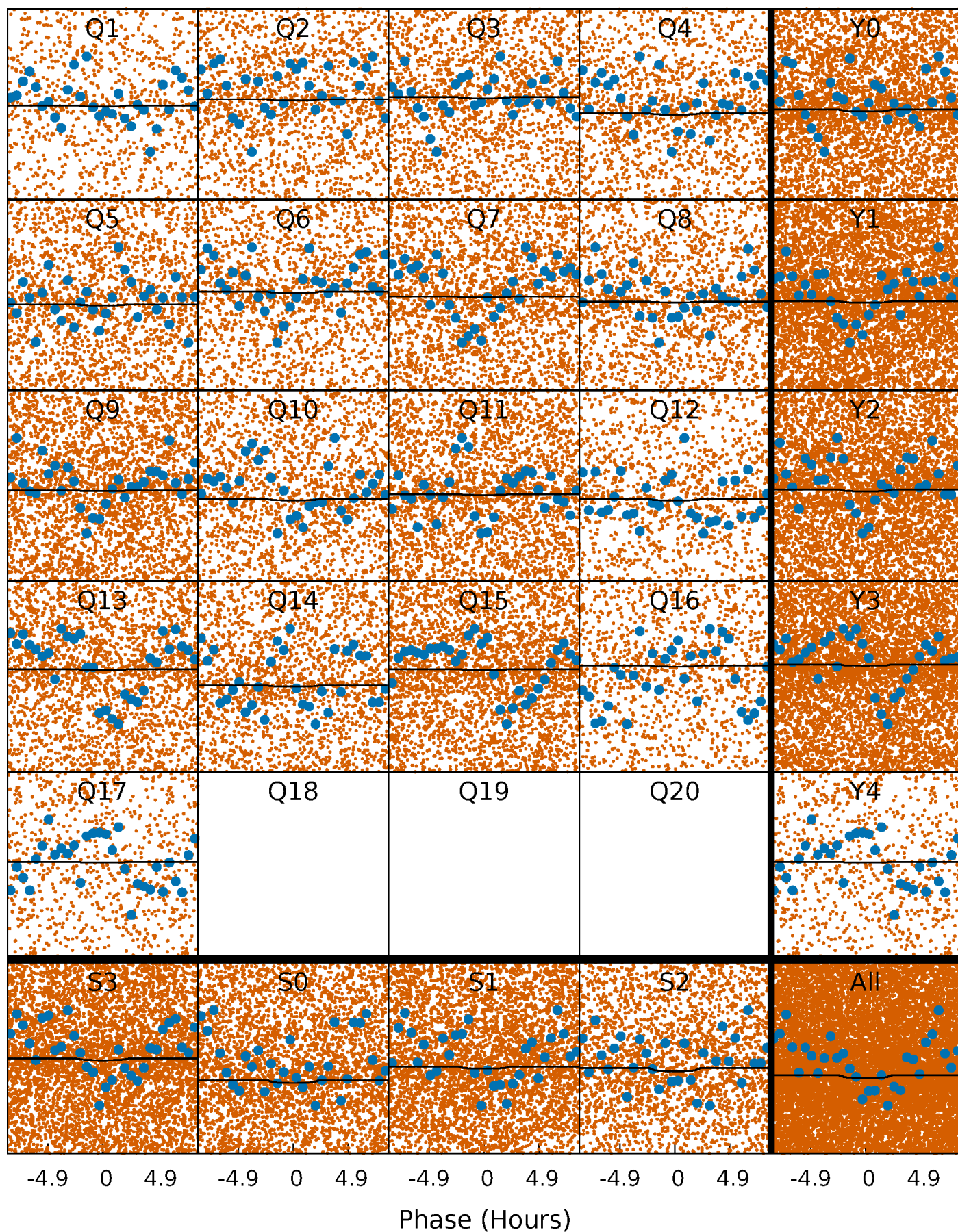
PDC Quarter-Phased Transit Curves

TCE 007200014-01 P= 0.566667 Days $T_0=132.009540$ (BKJD)



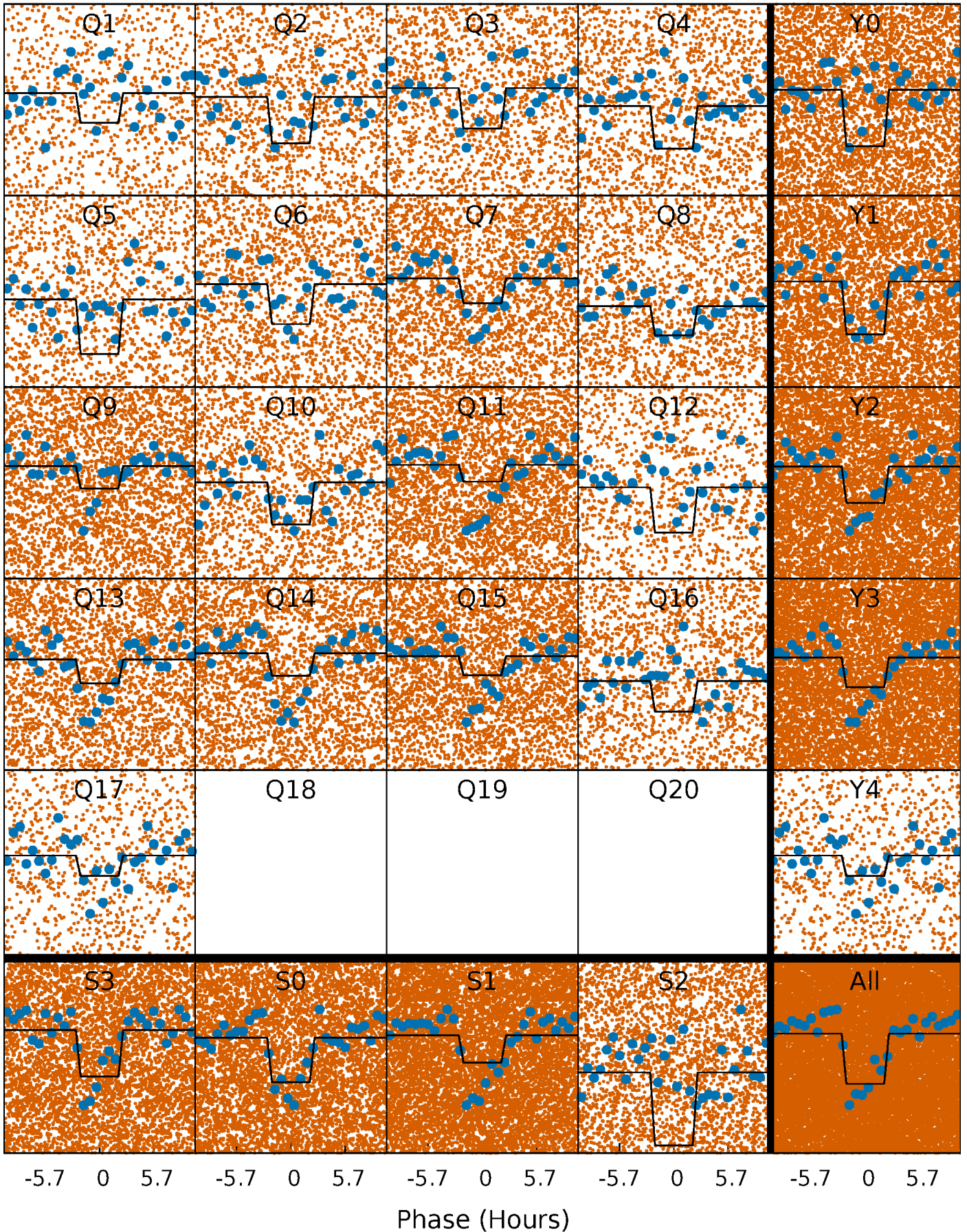
DV Quarter-Phased Transit Curves

TCE 007200014-01 P= 0.566667 Days $T_0=132.009540$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

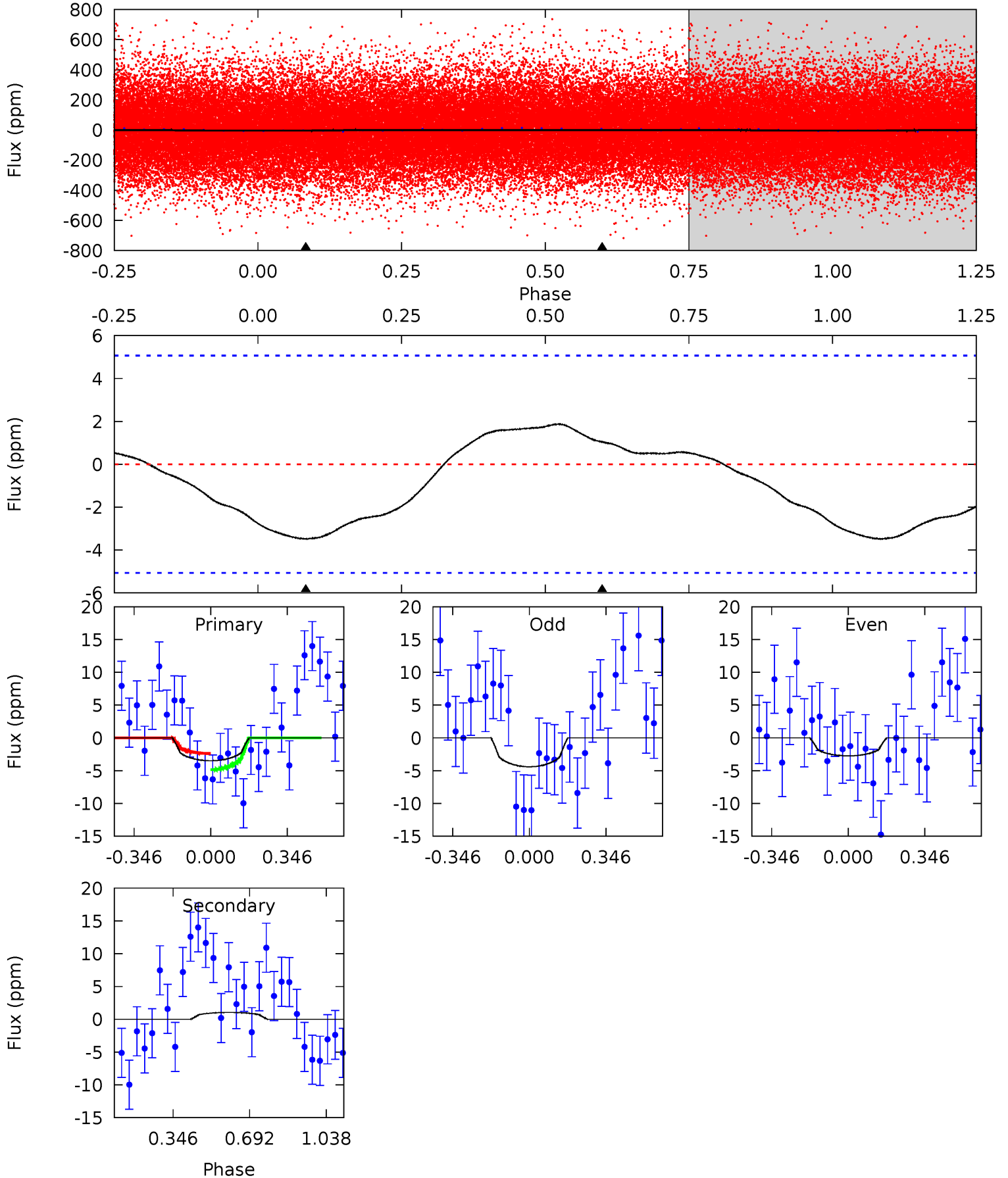
TCE 007200014-01 P= 0.566788 Days $T_0=131.859304$ (BKJD)



DV Model-Shift Uniqueness Test

007200014-01, P = 0.566667 Days, E = 131.442873 Days

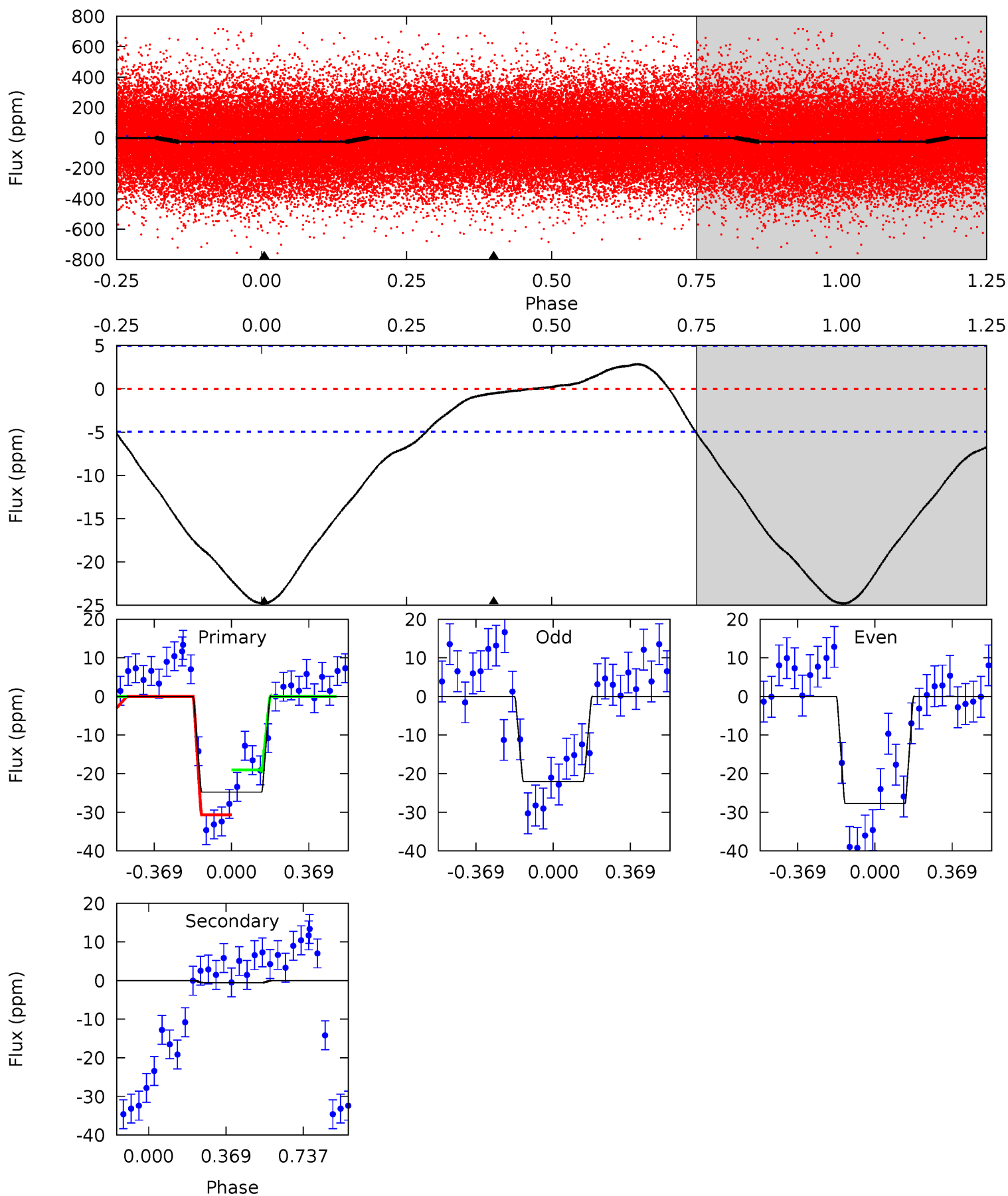
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.96	-0.88	0	0	4.30	0.94	0.45	2.96	2.96	-0.88	-0.88	0.70	0.78	0.35	1.04



Alt Model-Shift Uniqueness Test

007200014-01, P = 0.566788 Days, E = 131.292516 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.5	0.46	0	0	4.28	0.90	2.27	21.5	21.5	0.46	0.46	2.47	1.10	0.10	5.09



Stellar Parameters For KIC 007200014

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5375^{+191}_{-175}	$3.667^{+0.816}_{-0.204}$	$-0.060^{+0.350}_{-0.250}$	$2.871^{+0.844}_{-1.969}$	$1.397^{+0.214}_{-0.500}$	$0.083^{+1.449}_{-0.040}$
	+4%/-3%	+22%/-6%	+583%/-417%	+29%/-69%	+15%/-36%	+1742%/-48%
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 007200014-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	1 ± 1	$0.85^{+1.04}_{-0.62}$	4494^{+456}_{-780}	-4242^{+633}_{-1092}	$-0.097^{+0.118}_{-1.412}$
Alt.	-1 ± 1	$1.51^{+1.37}_{-0.90}$	4488^{+496}_{-849}	-3883^{+950}_{-404}	$0.018^{+0.162}_{-0.046}$

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 $A_{obs} \gg 1.0$

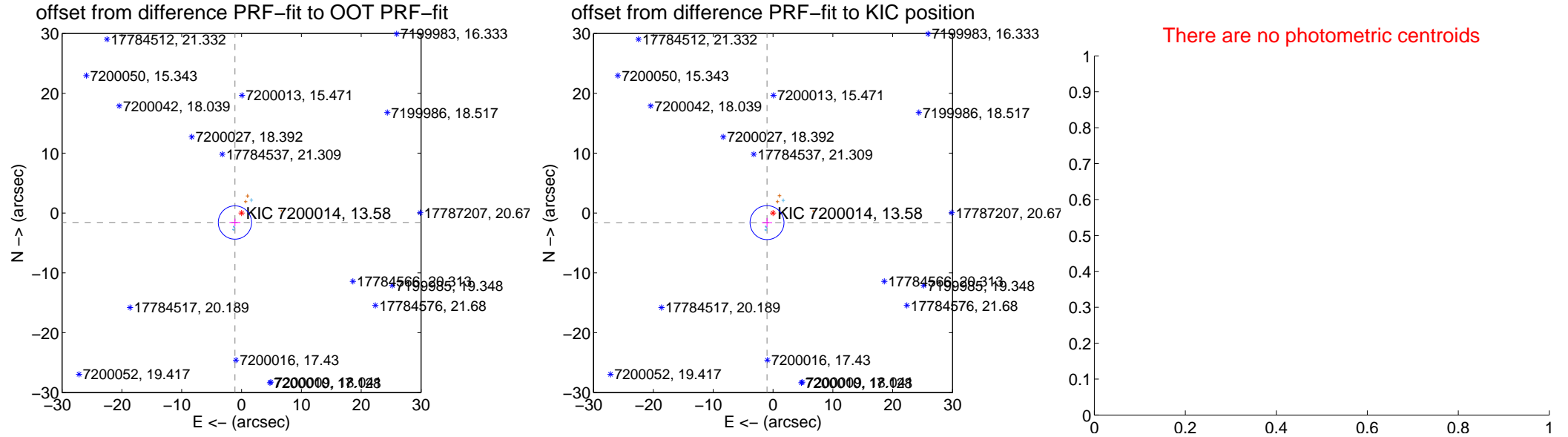
DV Centroid Data

Supplemental centroid analysis for 007200014-01. Kepler magnitude: 13.58. Transit SNR 0.45

There are 5 quarters with good PRF difference image offsets

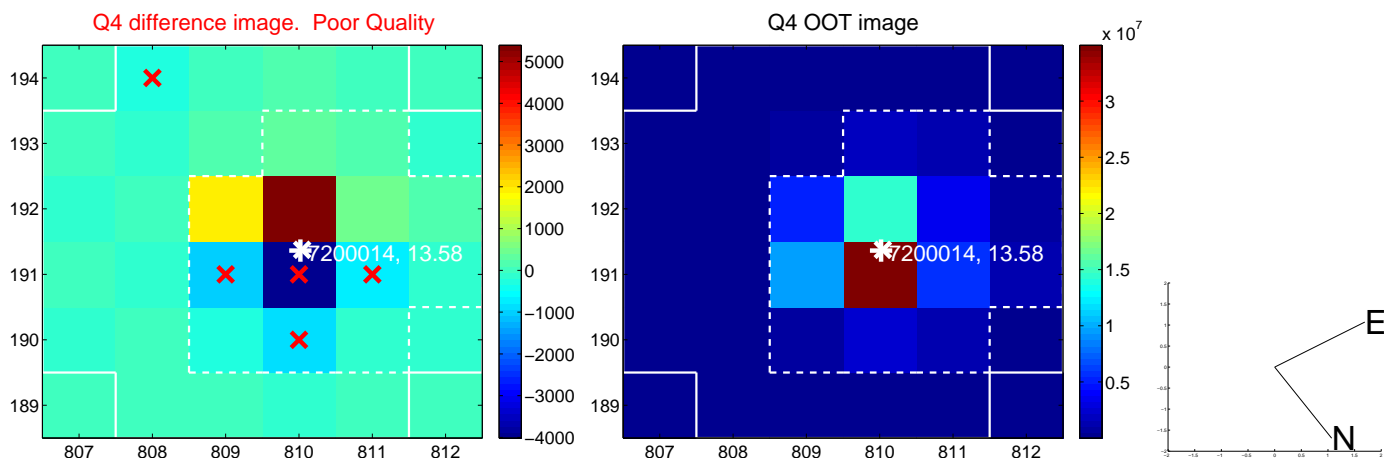
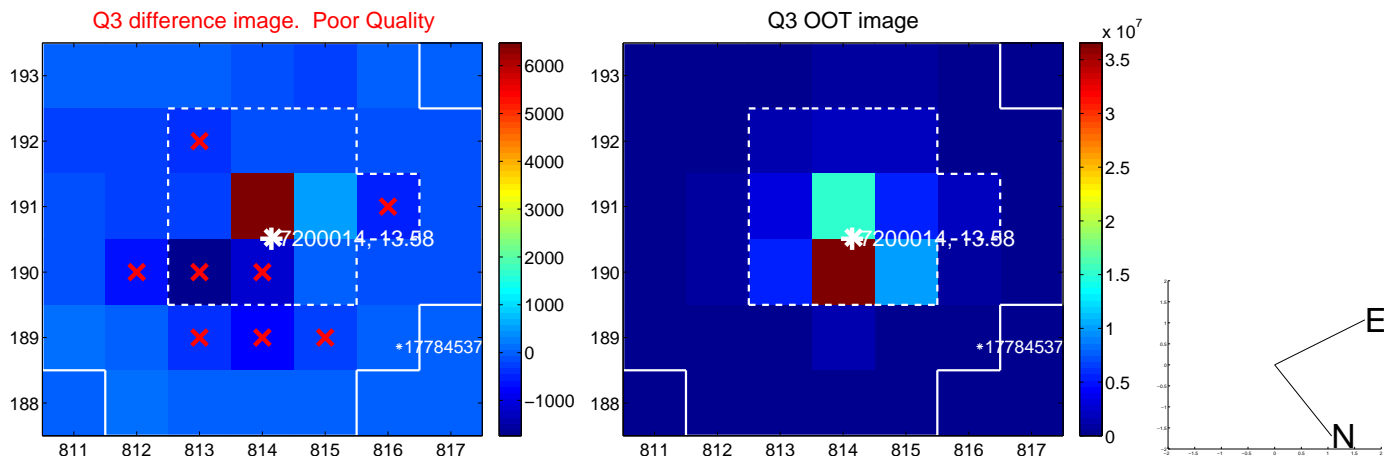
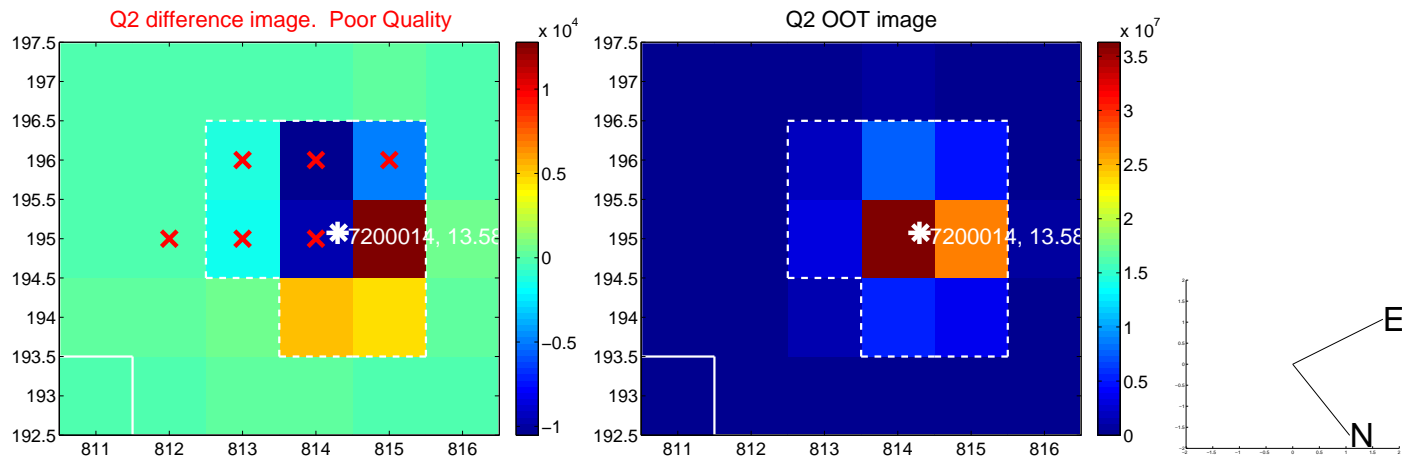
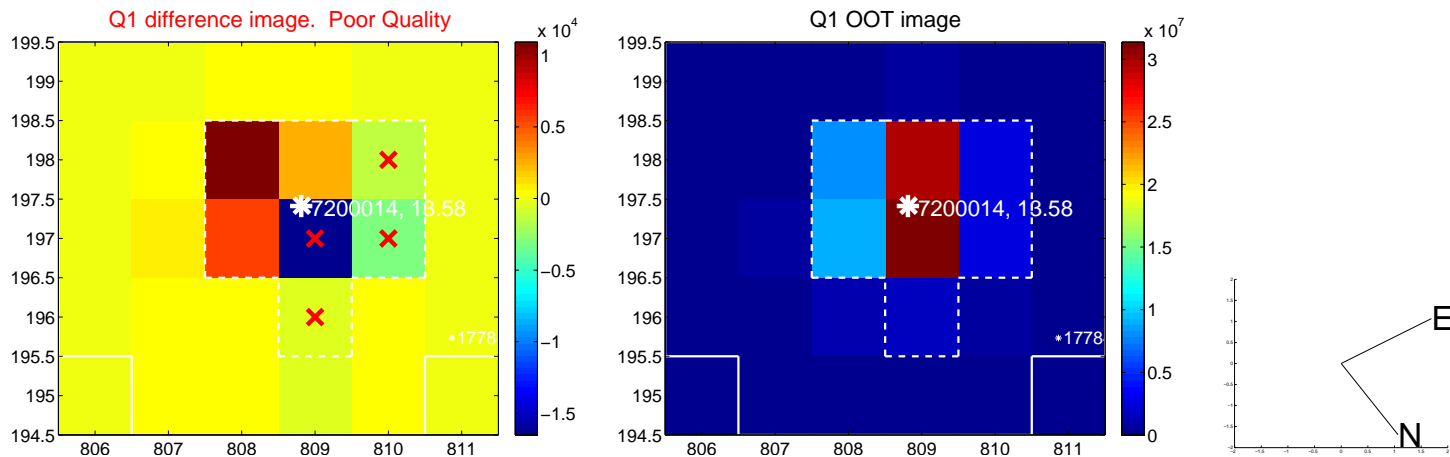
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.934 ± 0.928	2.08	1.105 ± 0.916	-1.587 ± 0.658
PRF-fit source offset from KIC position	1.891 ± 0.945	2.00	1.001 ± 0.853	-1.605 ± 0.757
photometric centroid source offset	—	—	—	—

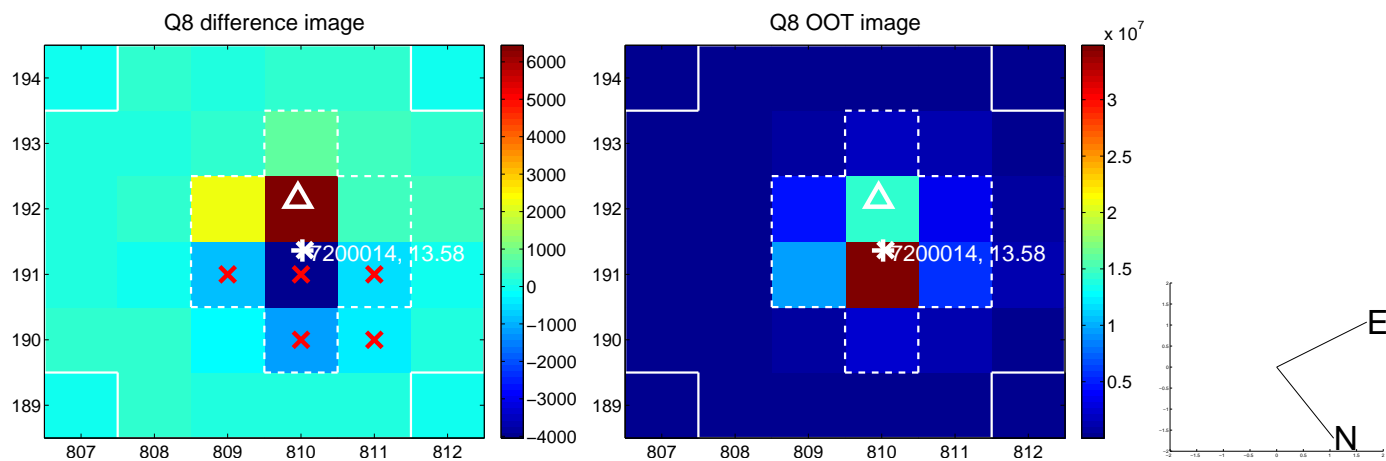
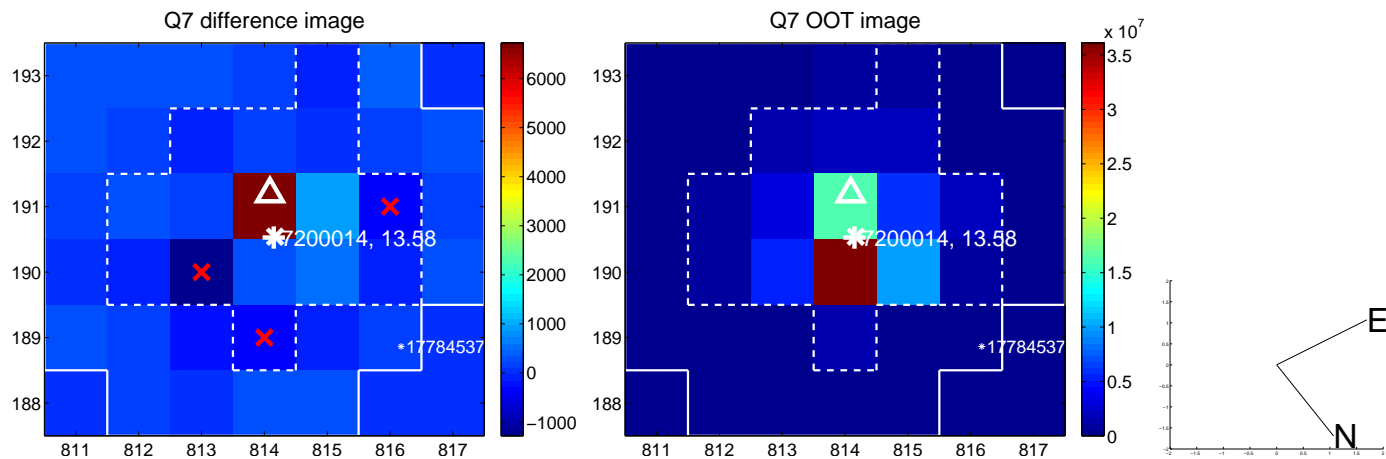
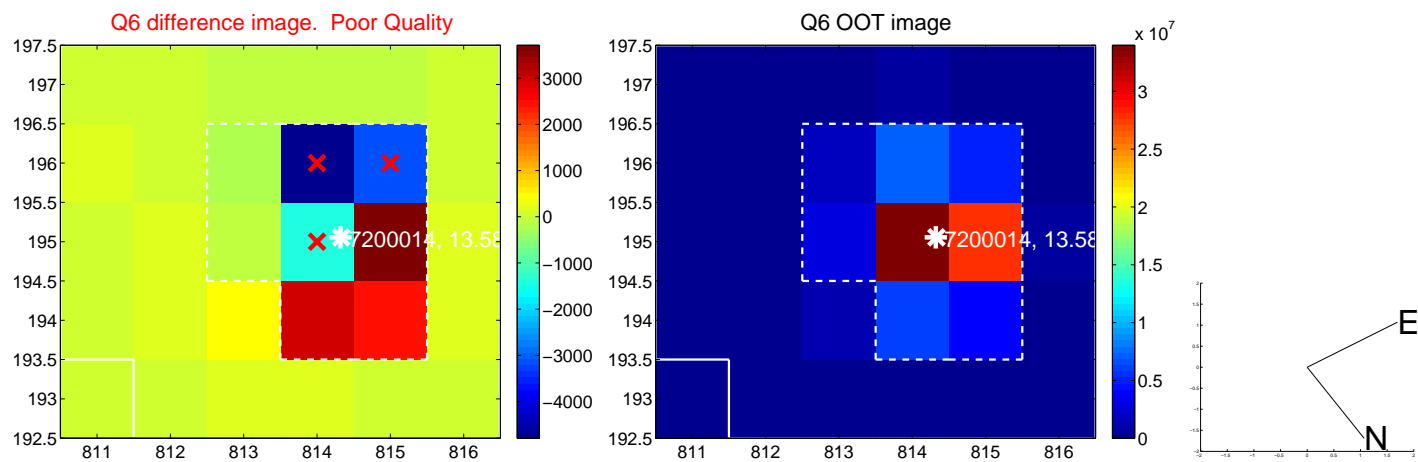
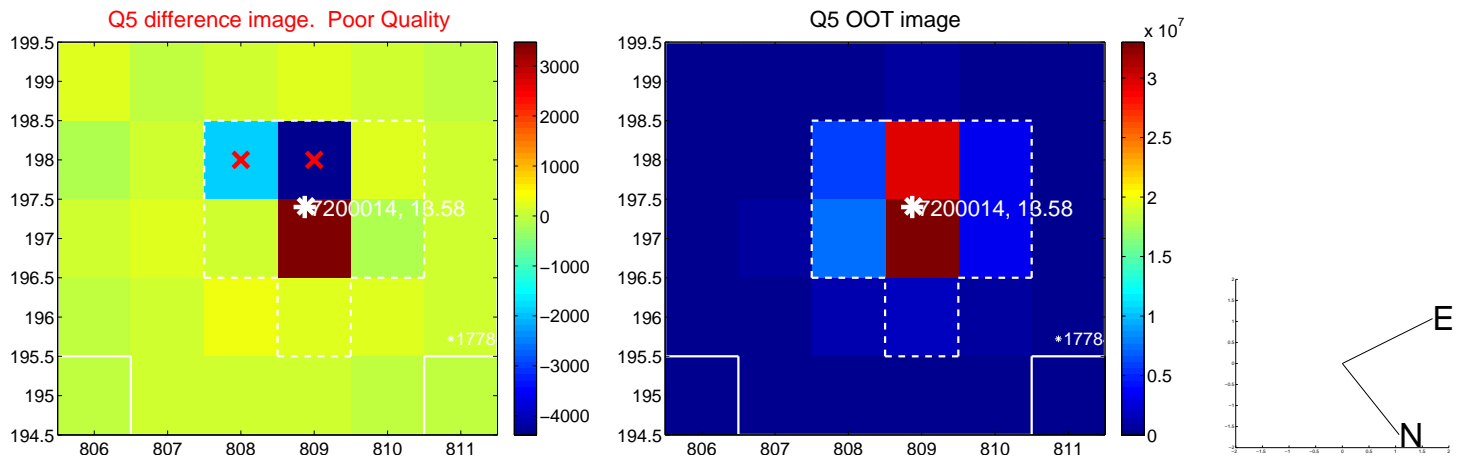


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

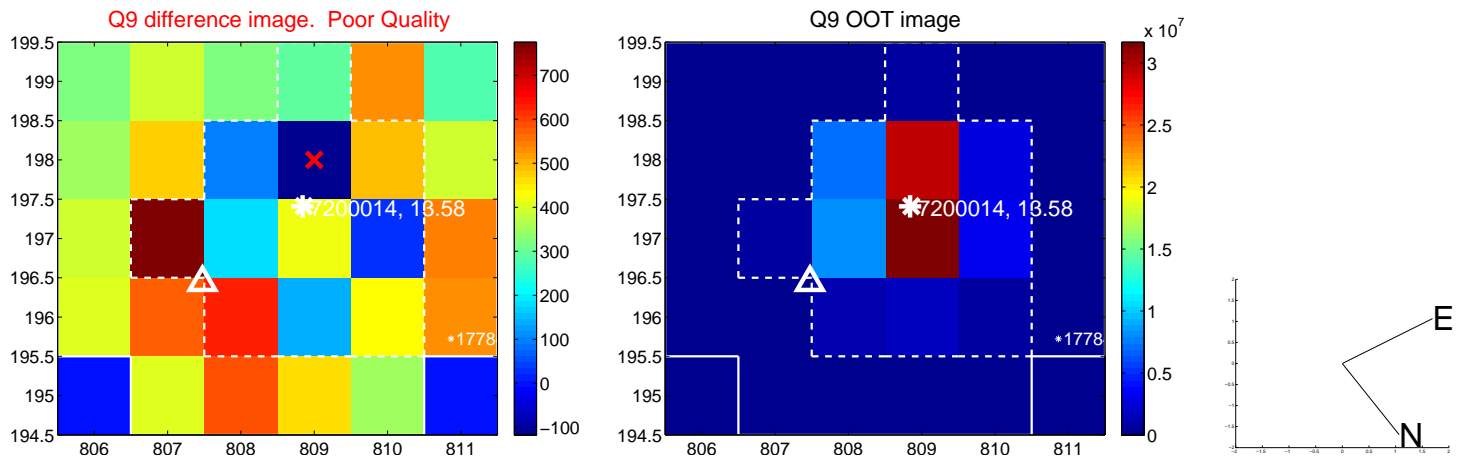
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



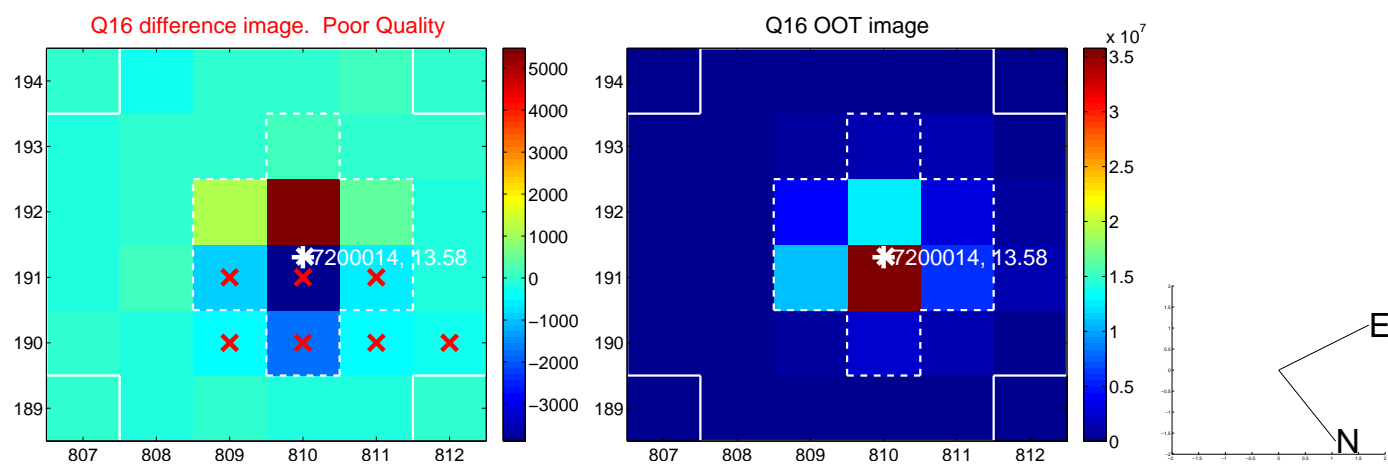
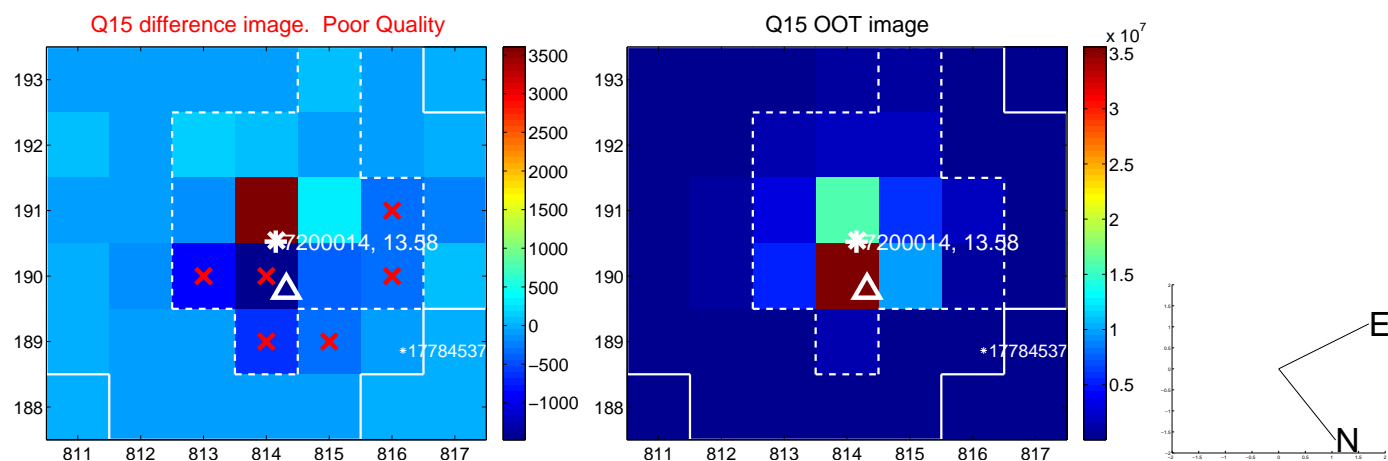
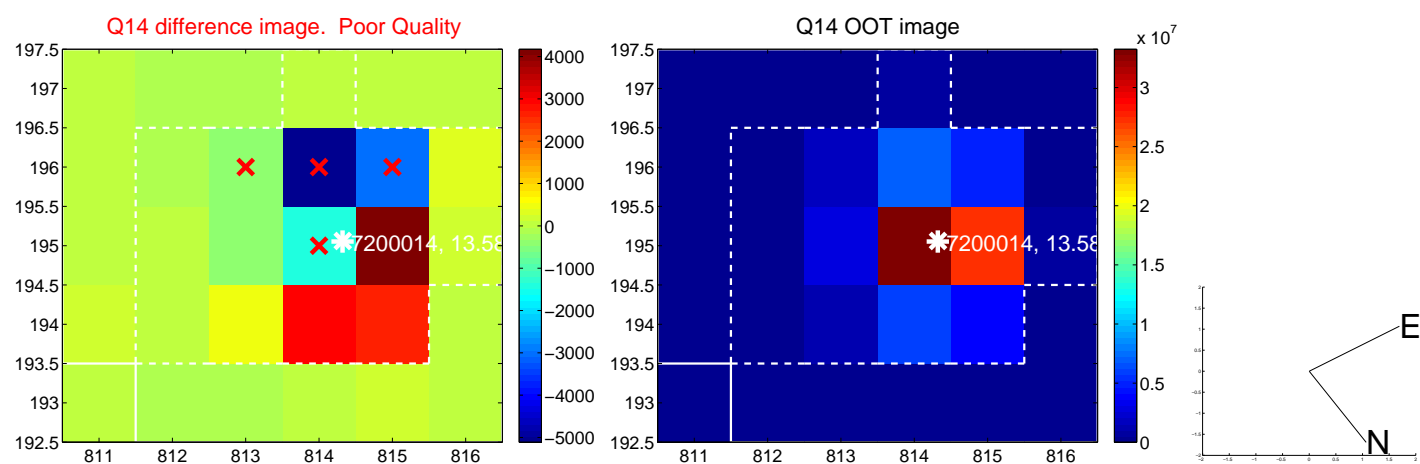
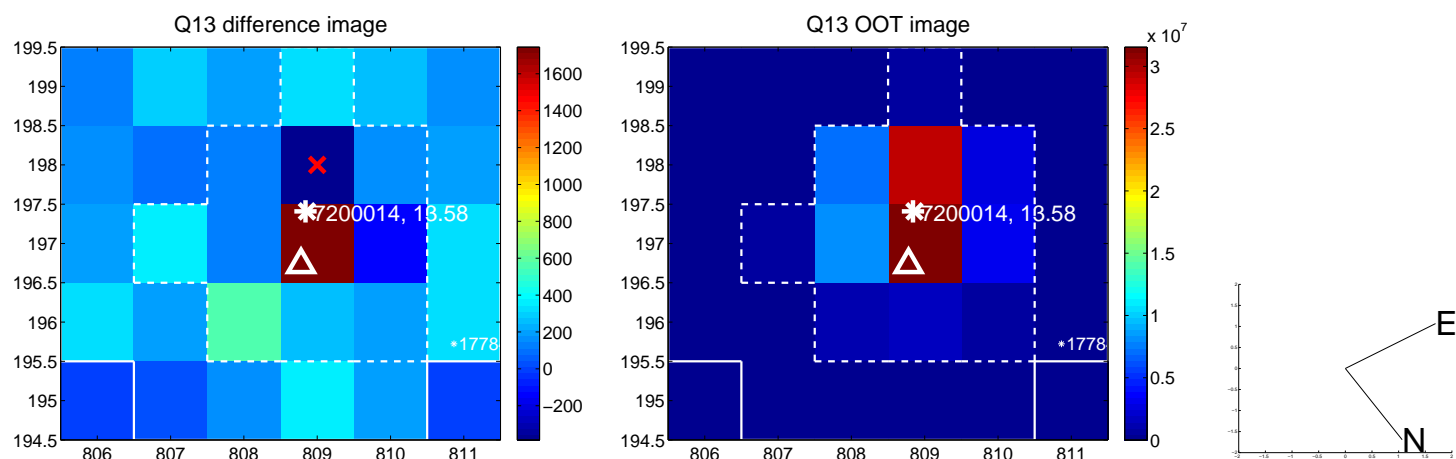
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



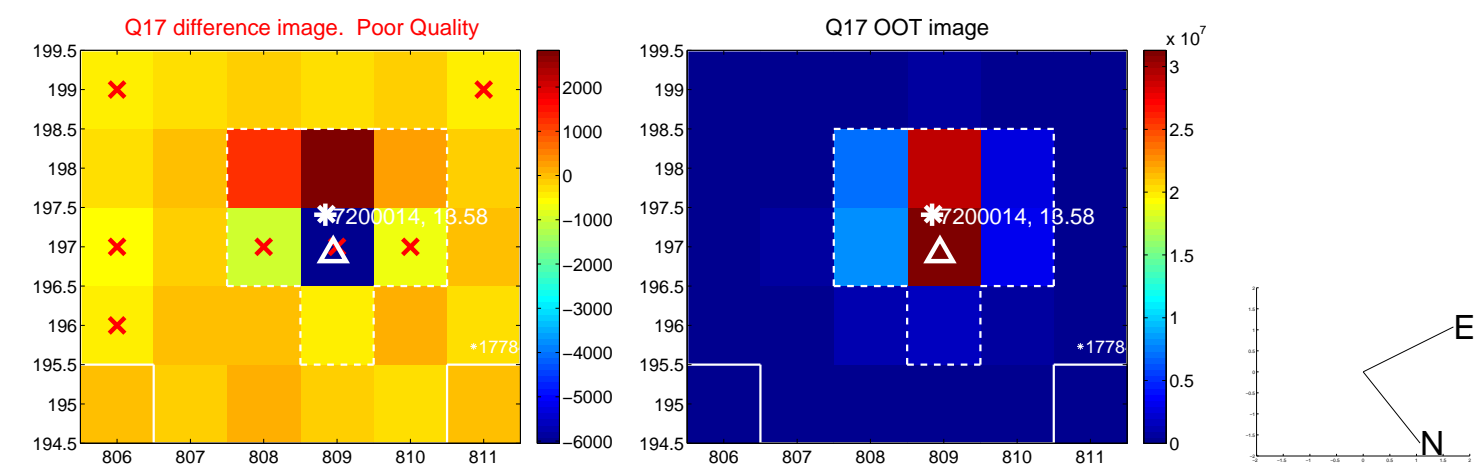
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

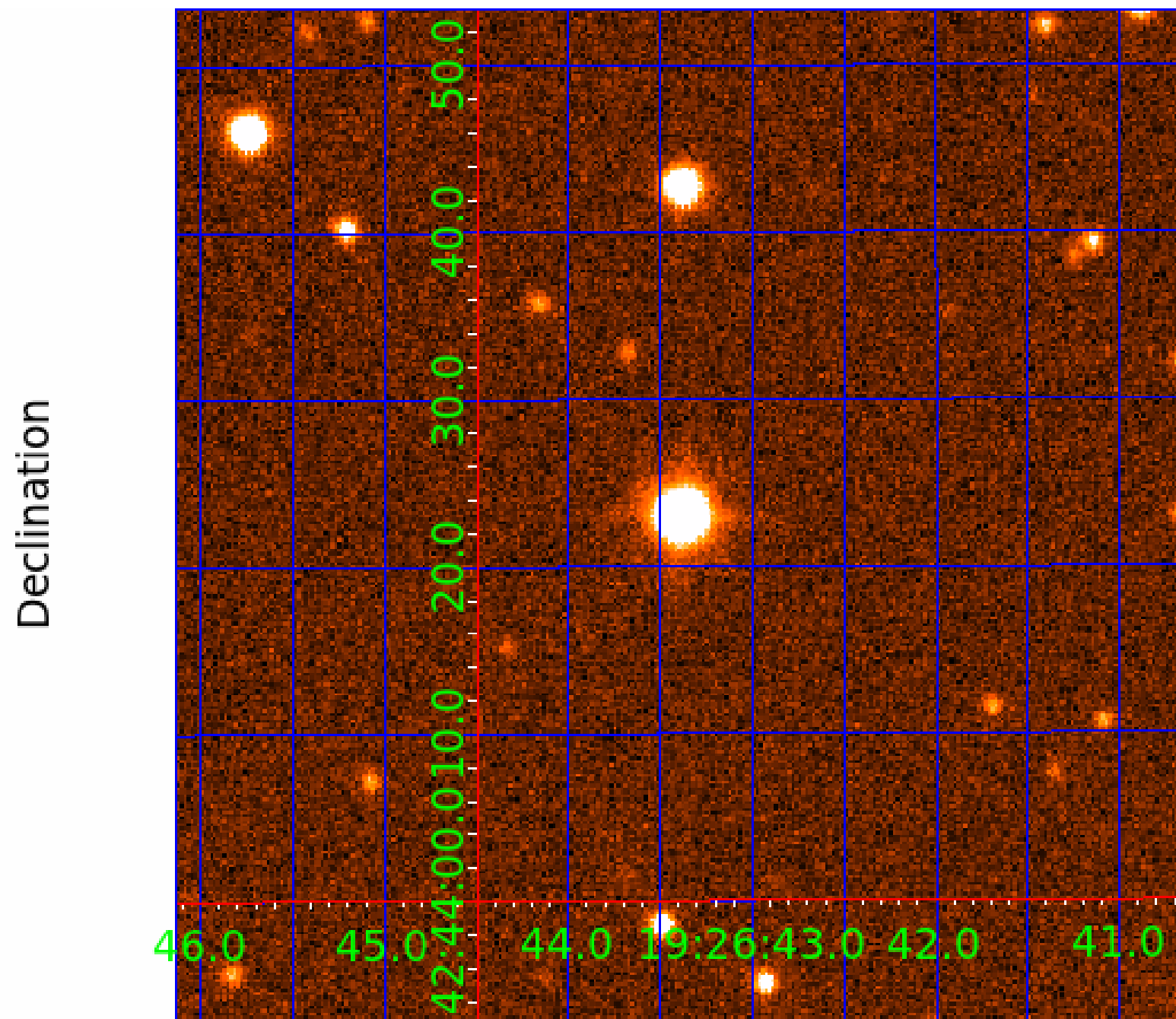


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 007200014

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})
007200014-01	OBS	No	0.566667	132.009540	0.8	4.261	8.4	0.4	2.87	5375	0.27	27457.42
007200014-02	OBS	No	4.316042	135.773812	125.4	1.578	14.8	11.8	2.87	5375	3.44	1832.24
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007200014-01	OBS	FP	0.00	1	0	0	1	LPP_DV—LPP_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007200014-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS—HALO_GHOST
007200014-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

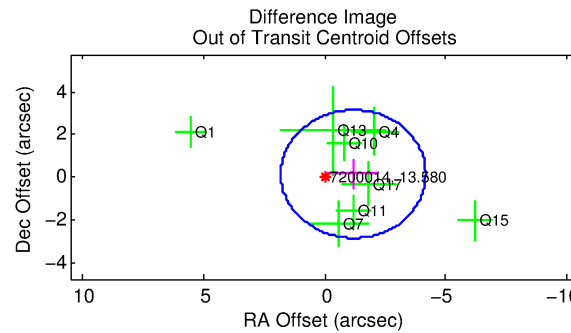
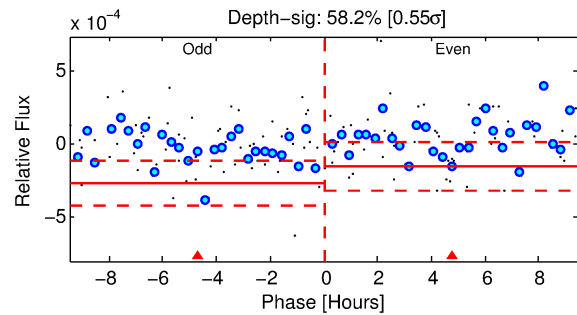
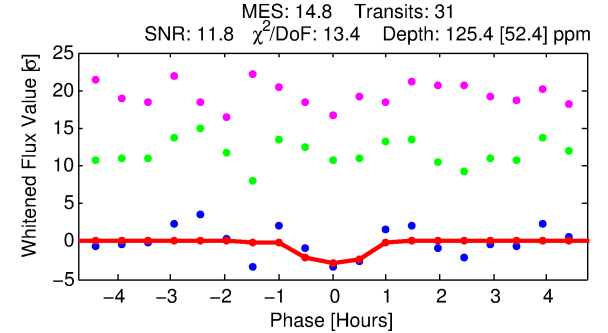
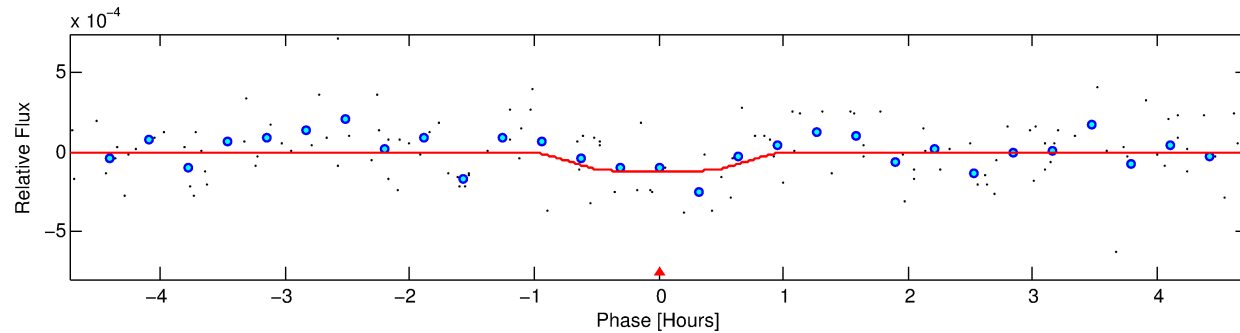
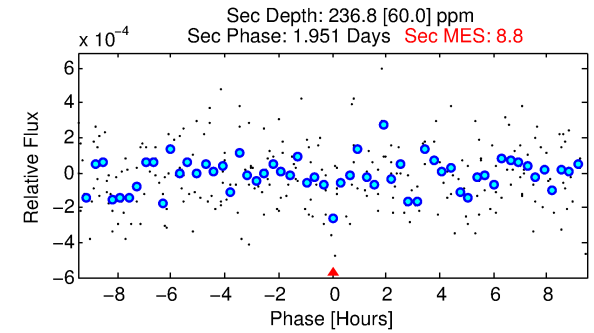
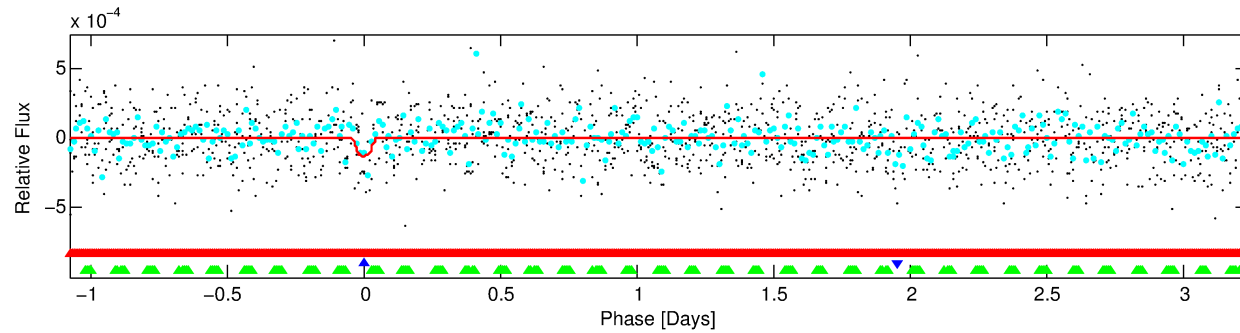
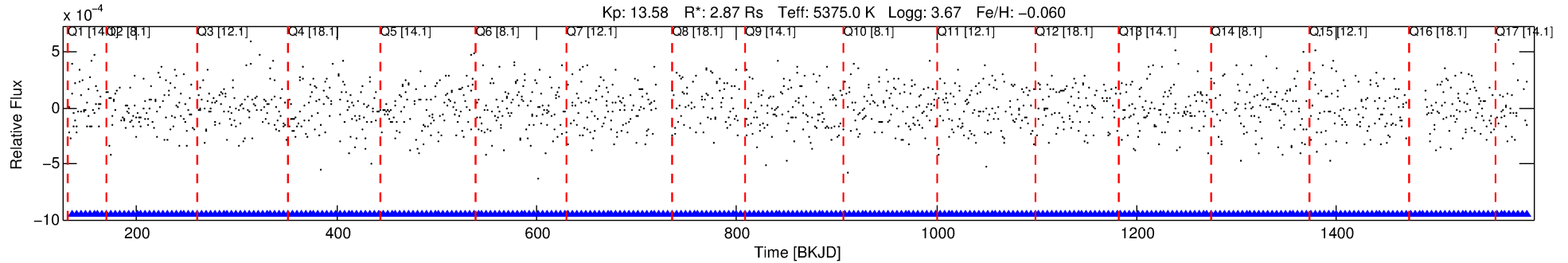
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007200014-02

No Significant Match Found

DV One-Page Summary

KIC: 7200014 Candidate: 2 of 3 Period: 4.316 d



DV Fit Results:

Period = 4.31604 [0.00009] d
Epoch = 135.7738 [0.0146] BKJD
Rp/R* = 0.0110 [0.0349]
a/R* = 15.30 [193.50]
b = 0.70 [9.46]
Seff = 1832.24 [2457.03]
Teff = 1668 [559] K
Rp = 3.44 [11.19] Re
a = 0.0580 [0.0450] AU
Ag = 37.00 [240.54] [0.15σ]
Teffp = 6362 [10121] K [0.46σ]

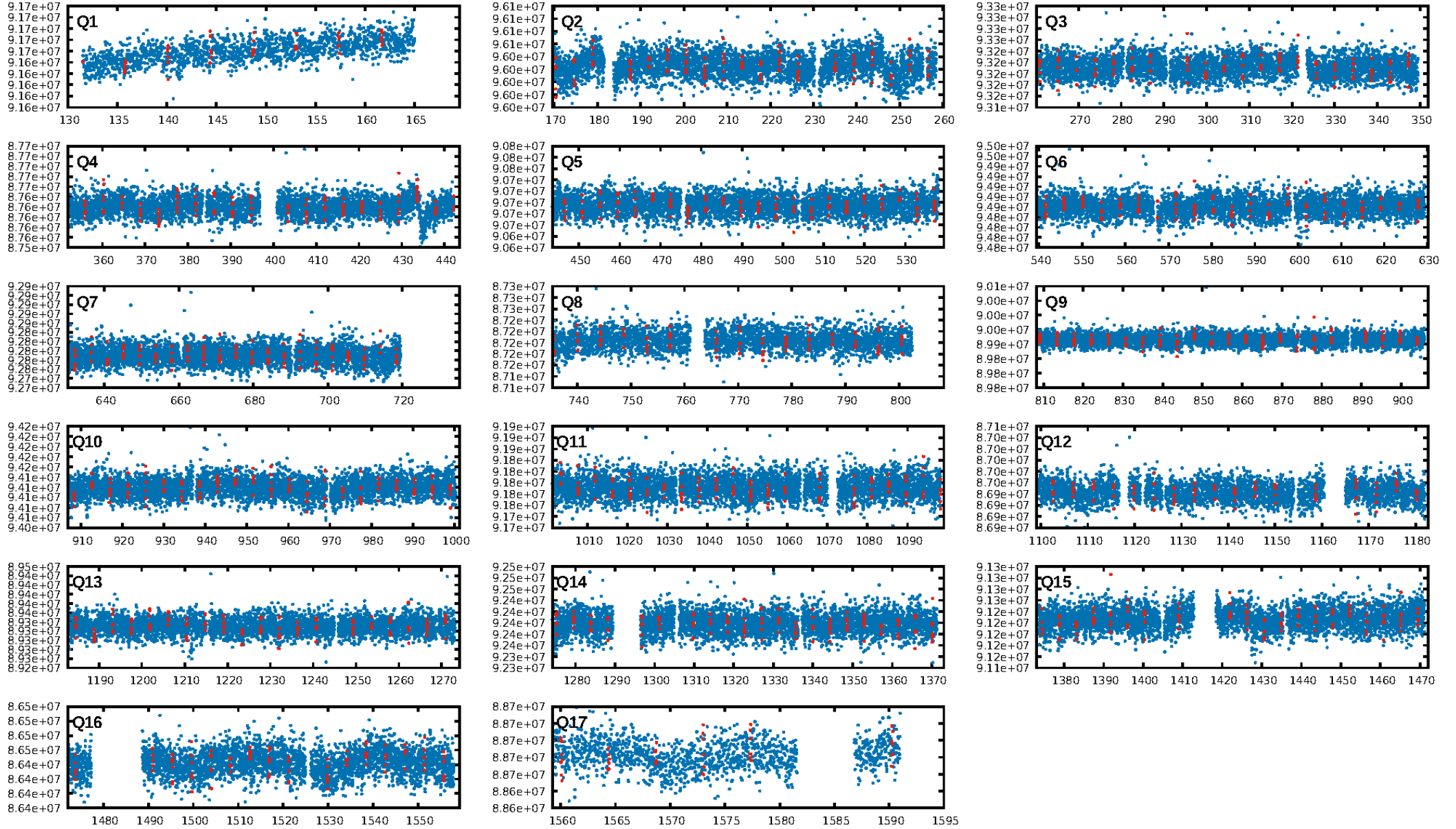
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [19.80σ]
LongPeriod-sig: 100.0% [45.37σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 6.26e-06
RollingBand-fgt: 1.00 [30/30]
GhostDiagnostic-chr: -0.06063
Centroid-sig: 9.5%
Centroid-so: 0.834 arcsec [1.49σ]
OotOffset-rm: 1.193 arcsec [1.20σ]
OotOffset-st: 1/3/1/3 [8]
KicOffset-rm: 1.249 arcsec [1.15σ]
KicOffset-st: 1/3/1/3 [8]
DiffImageQuality-fgm: 0.25 [2/8]
DiffImageOverlap-fno: 0.00 [0/17]

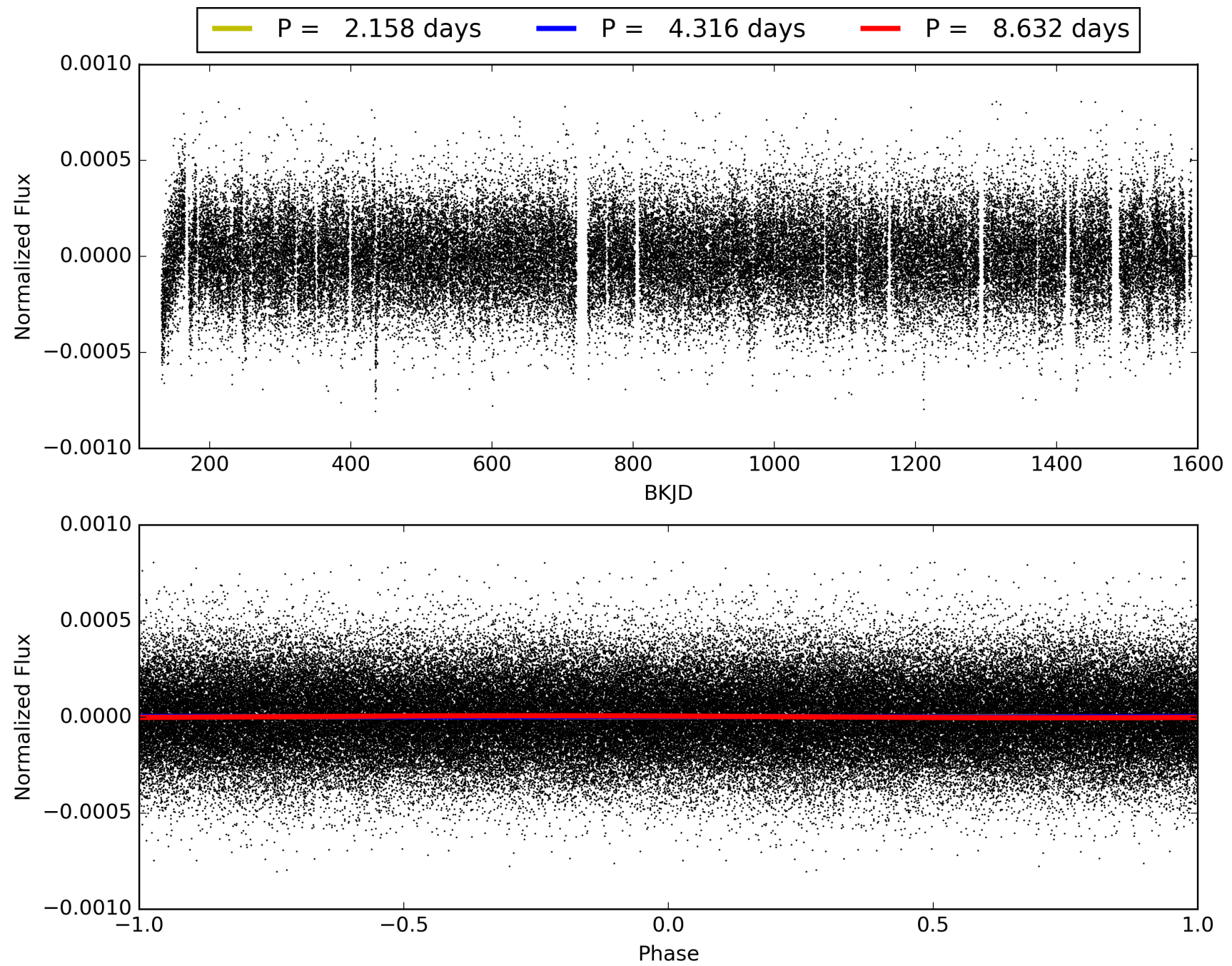
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 23:26:16 Z

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

TCE 007200014-02, PDC Light Curves

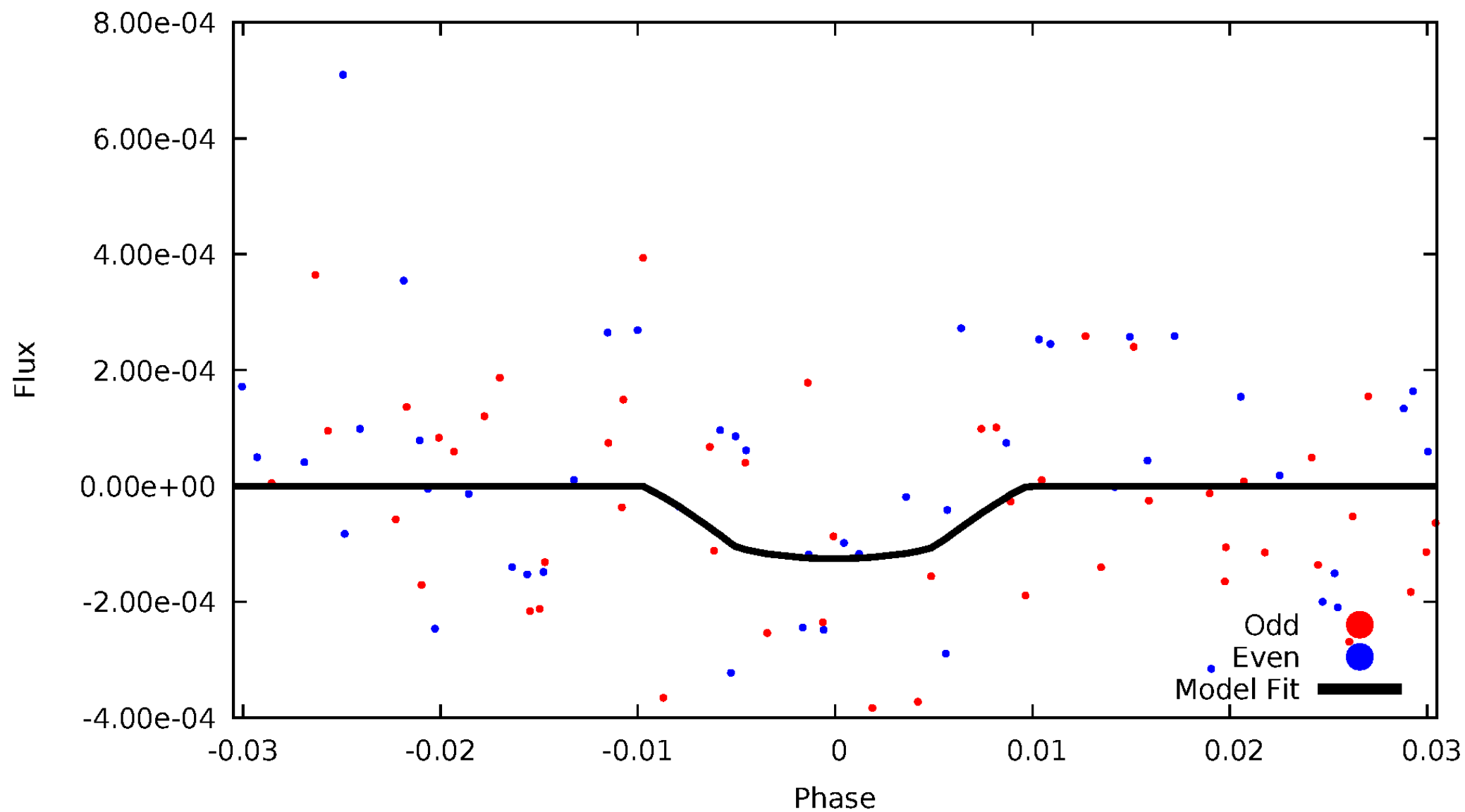


TCE 007200014-02



DV Odd/Even

TCE 007200014-02

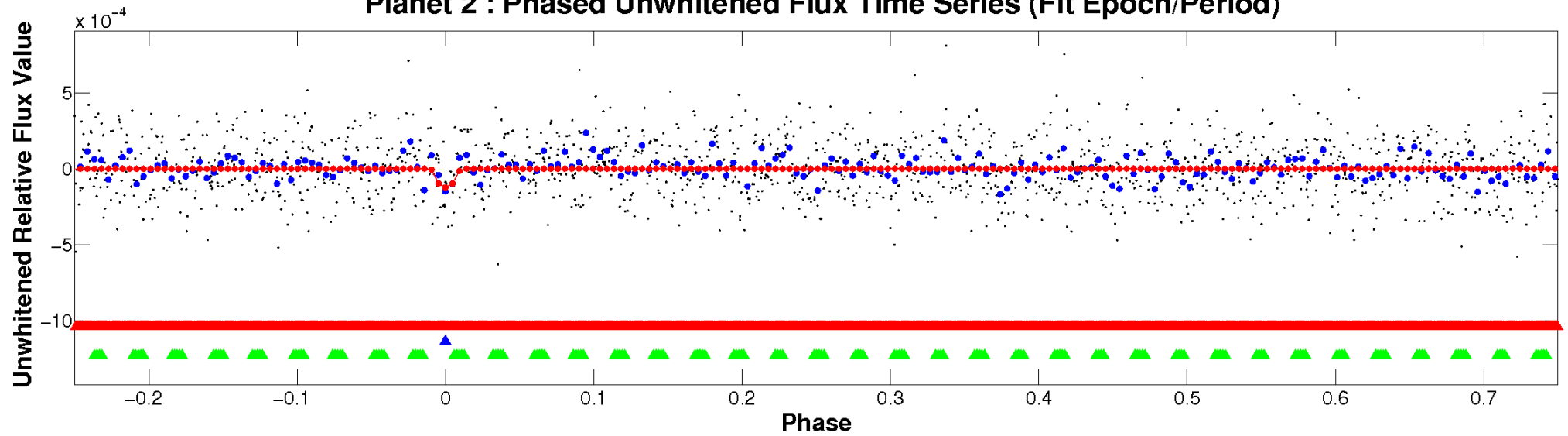


ALT Odd/Even

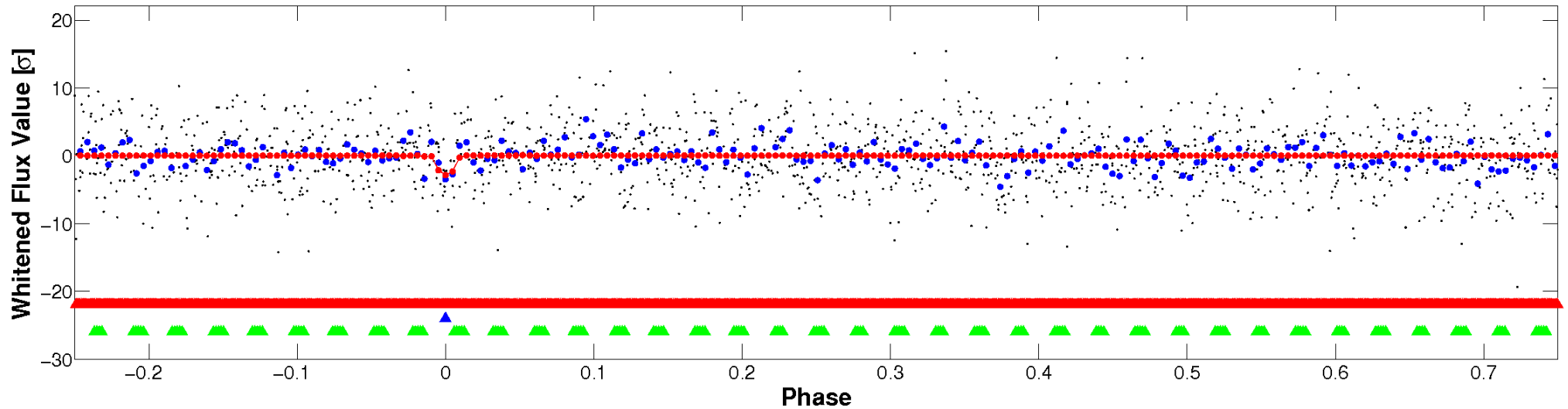
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

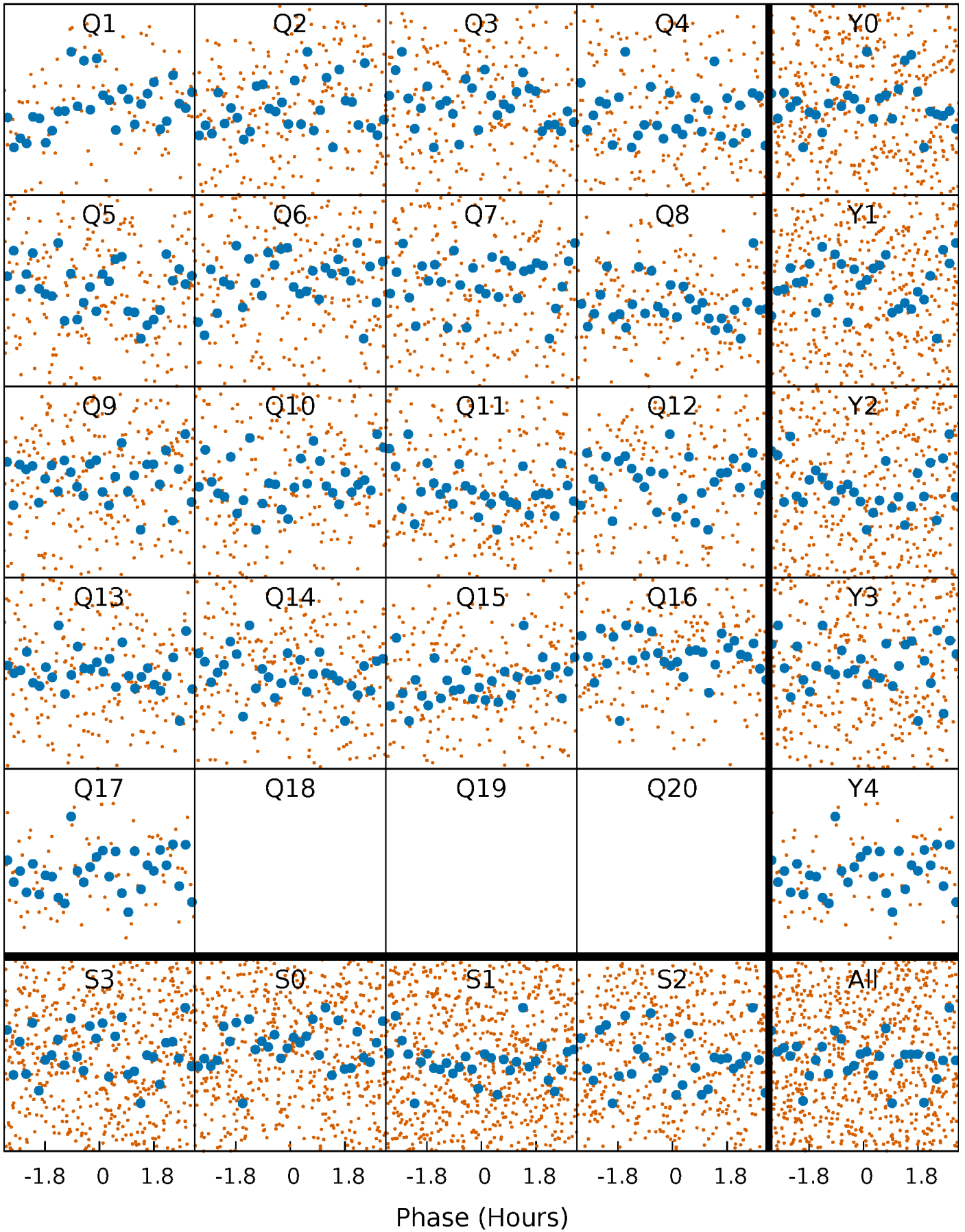


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



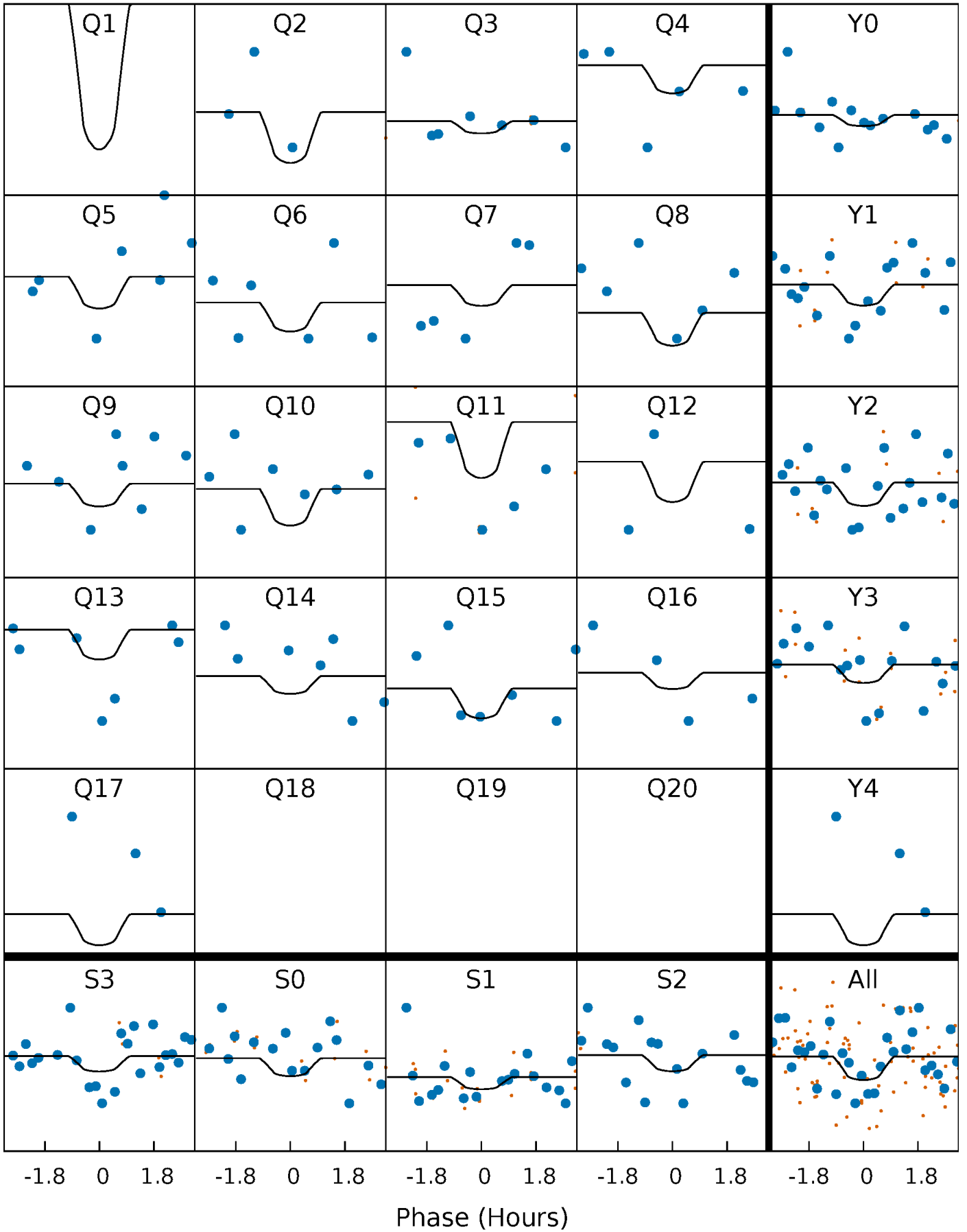
PDC Quarter-Phased Transit Curves

TCE 007200014-02 P= 4.316042 Days $T_0=135.773812$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007200014-02 P= 4.316042 Days $T_0=135.773812$ (BKJD)

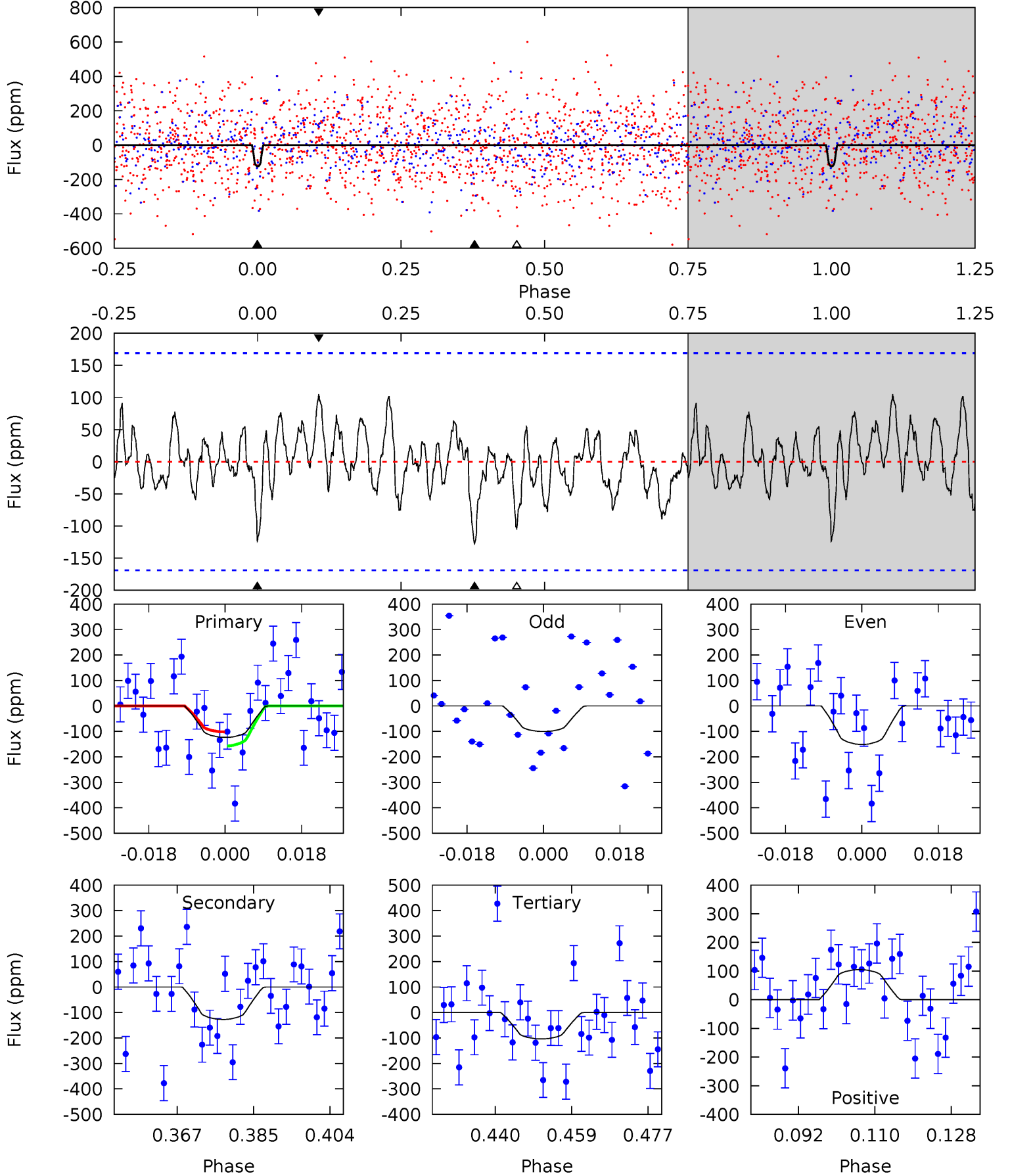


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007200014-02, P = 4.316042 Days, E = 131.457770 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.59	3.70	3.02	3.05	4.91	2.36	1.11	0.57	0.54	0.69	0.65	0.74	0	0.45	0.81



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007200014

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5375^{+191}_{-175}	$3.667^{+0.816}_{-0.204}$	$-0.060^{+0.350}_{-0.250}$	$2.871^{+0.844}_{-1.969}$	$1.397^{+0.214}_{-0.500}$	$0.083^{+1.449}_{-0.040}$
	+4%/-3%	+22%/-6%	+583%/-417%	+29%/-69%	+15%/-36%	+1742%/-48%
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 007200014-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-127 ± 34	$7.24^{+8.42}_{-5.06}$	2275^{+262}_{-415}	3727^{+2212}_{-854}	$4.256^{+39.827}_{-3.384}$
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 $A_{obs} \gg 1.0$

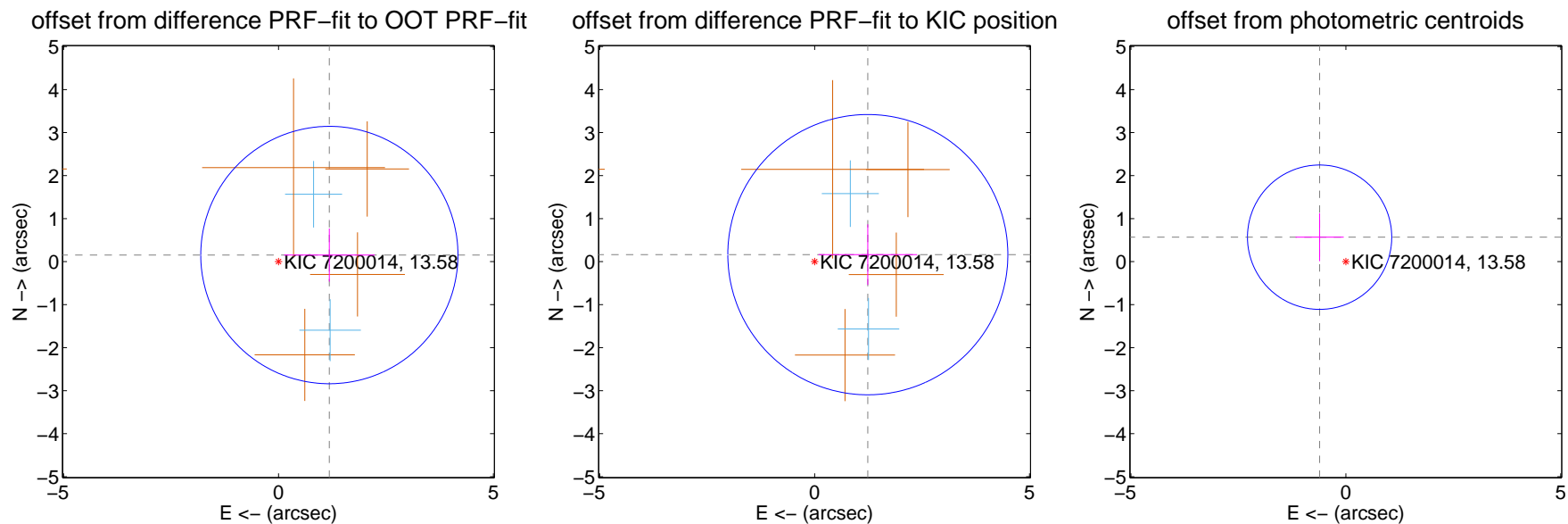
DV Centroid Data

Supplemental centroid analysis for 007200014-02. Kepler magnitude: 13.58. Transit SNR 11.80

There are 2 quarters with good PRF difference image offsets

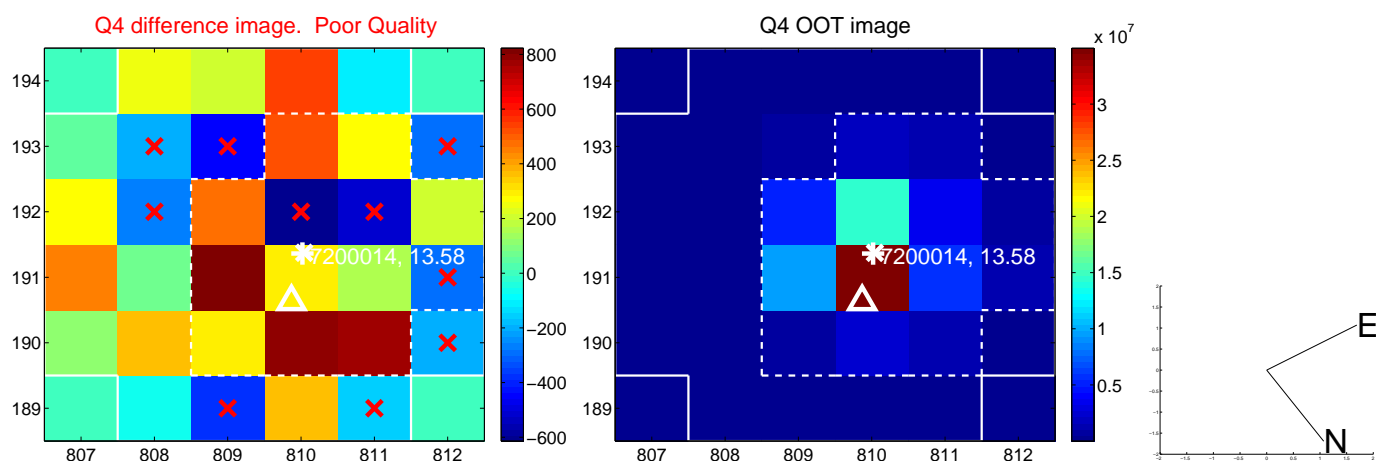
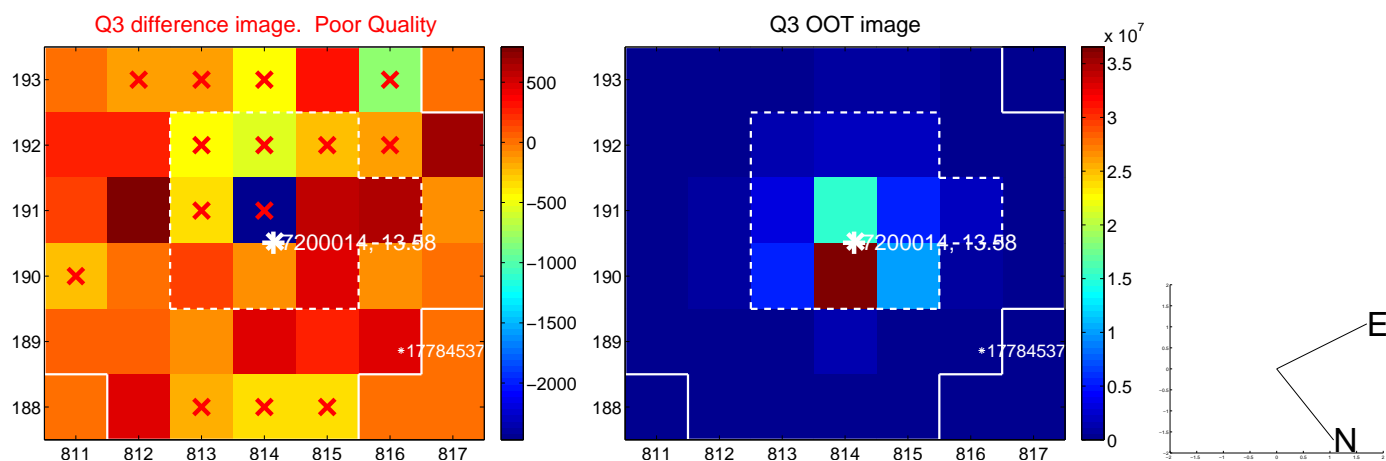
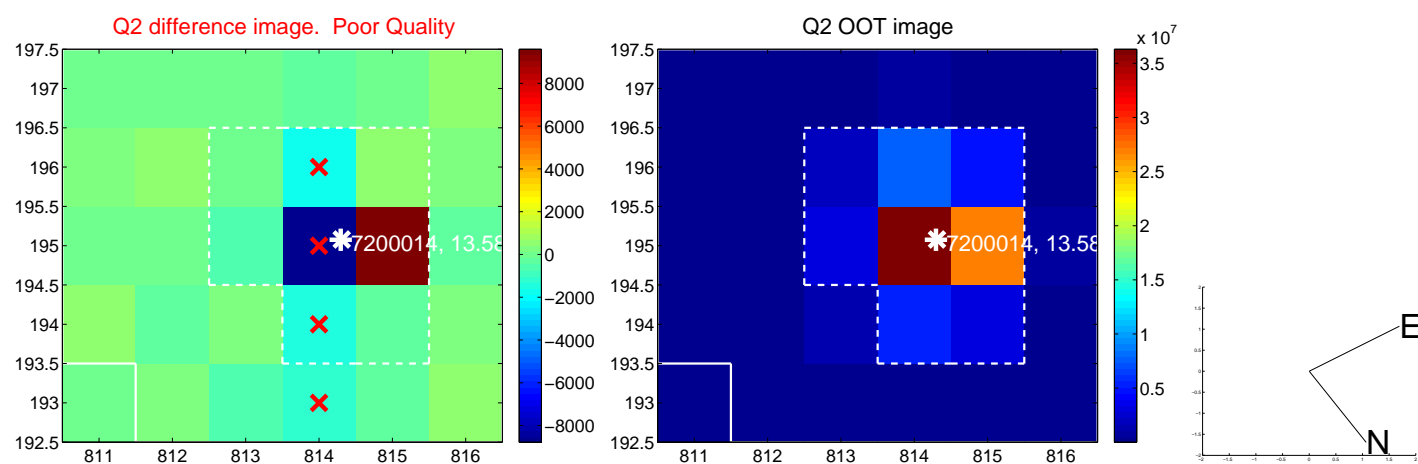
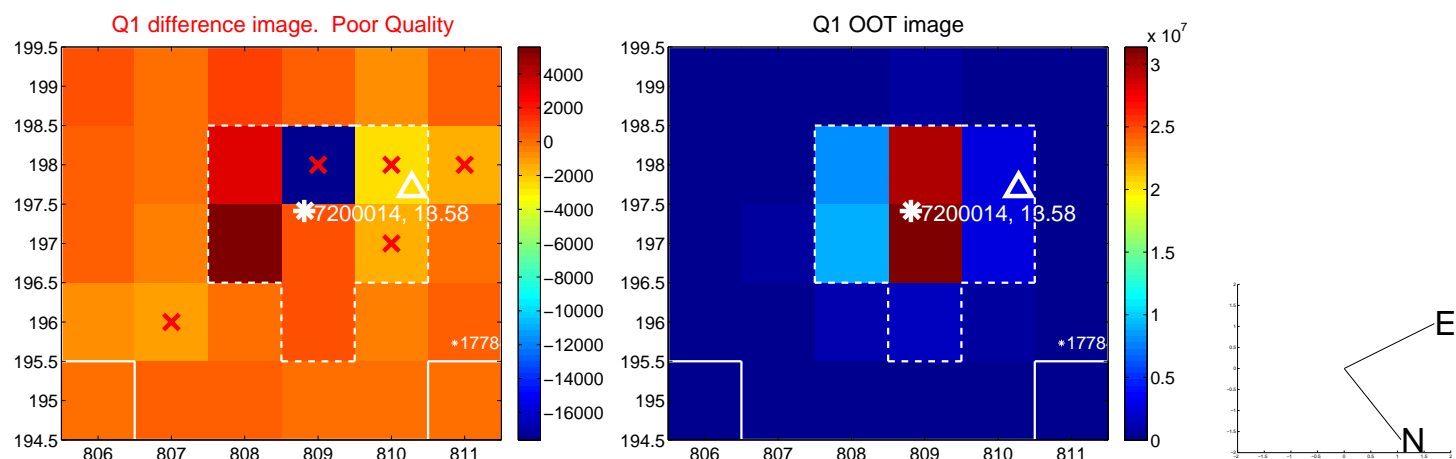
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.193 ± 0.997	1.20	-1.184 ± 1.055	0.153 ± 0.618
PRF-fit source offset from KIC position	1.249 ± 1.086	1.15	-1.238 ± 1.147	0.162 ± 0.703
photometric centroid source offset	0.83 ± 0.56	1.49	0.61 ± 0.56	0.57 ± 0.56

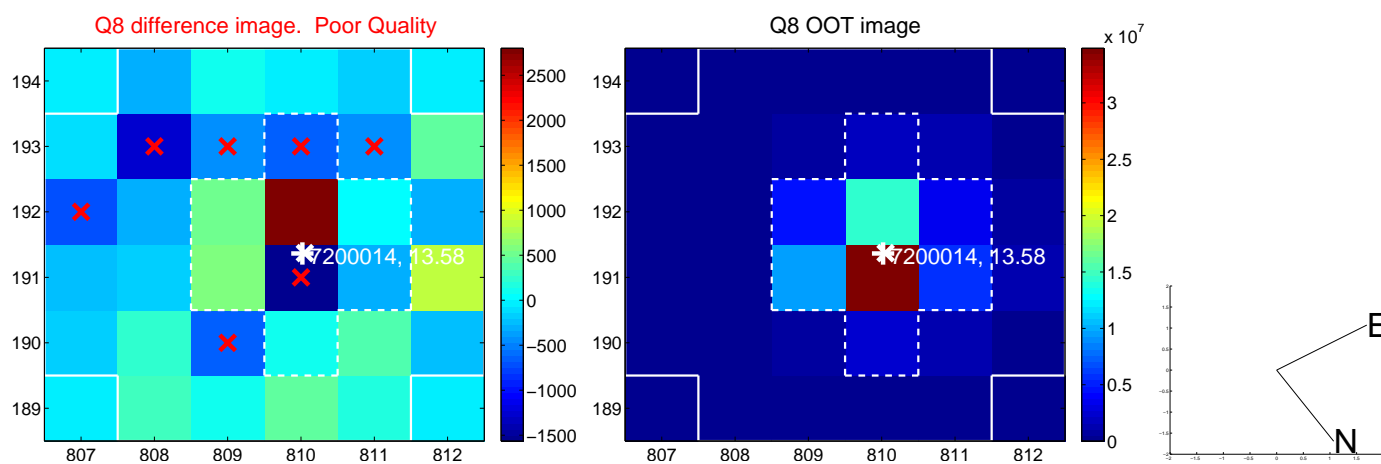
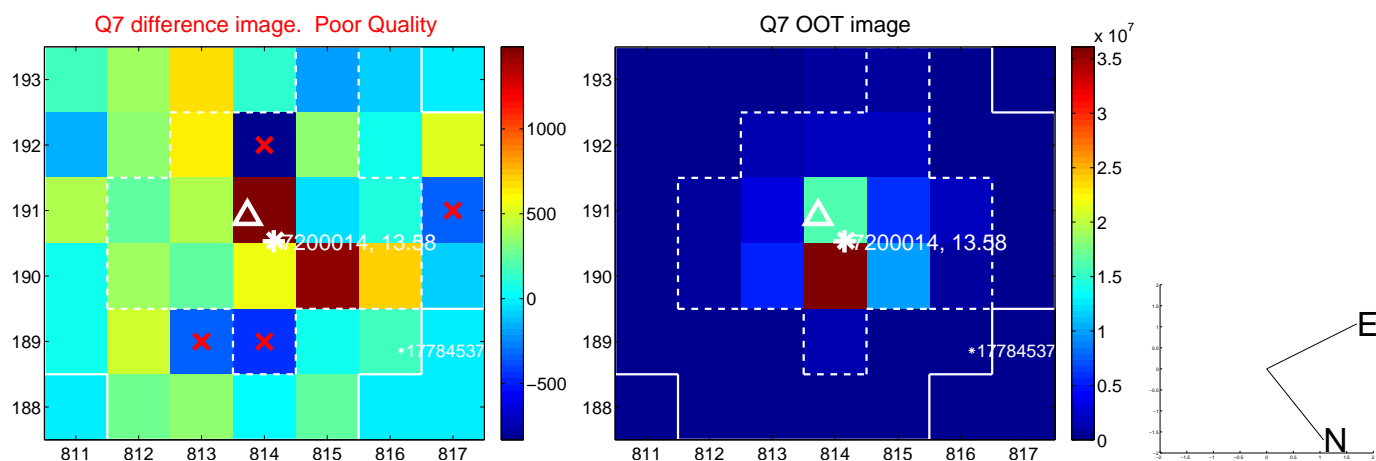
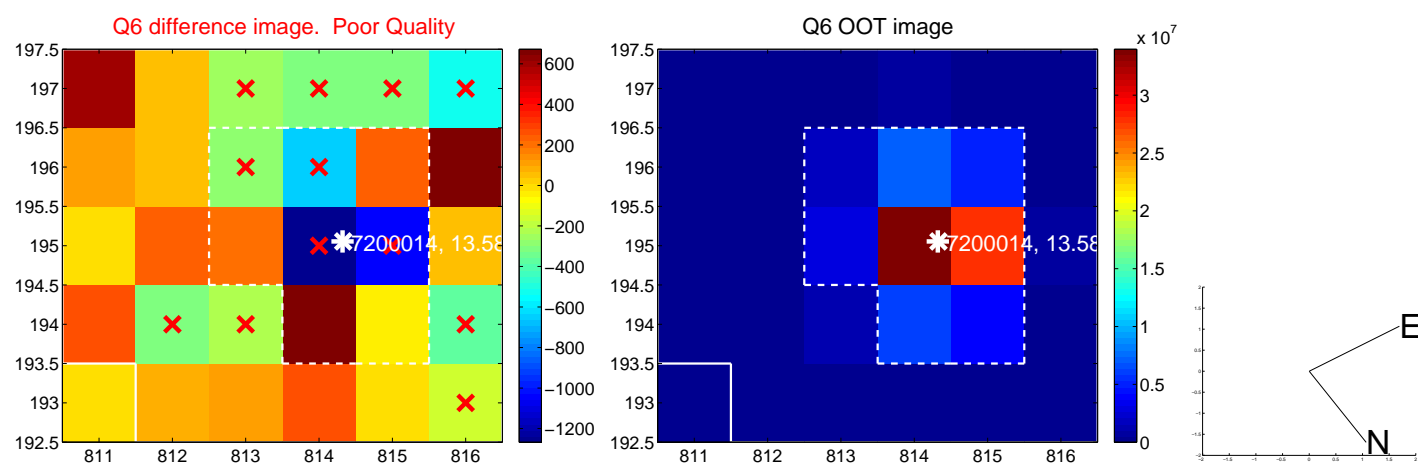
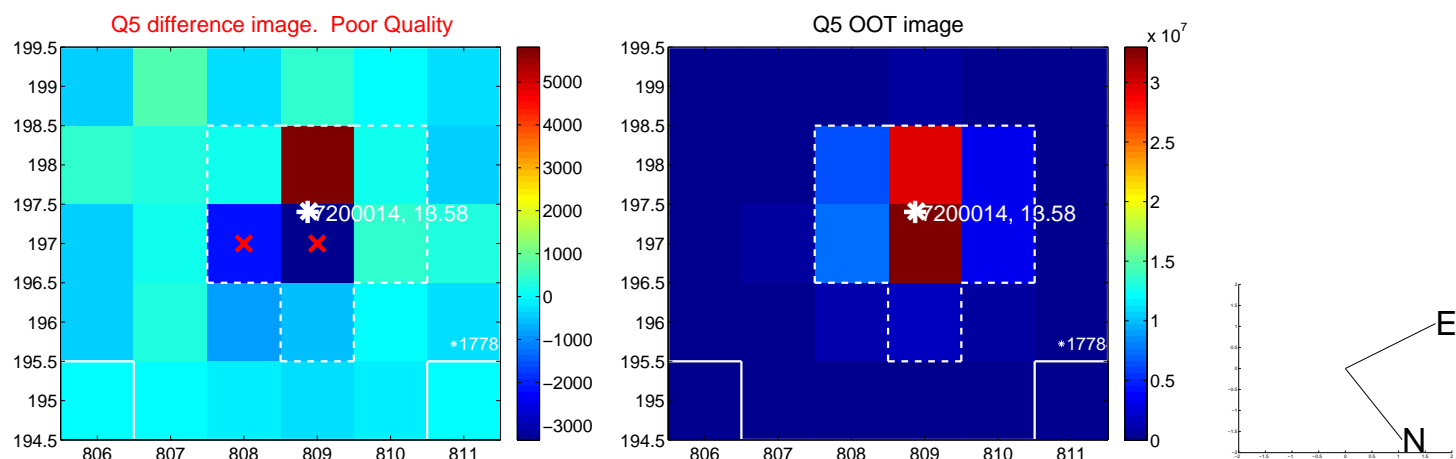


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

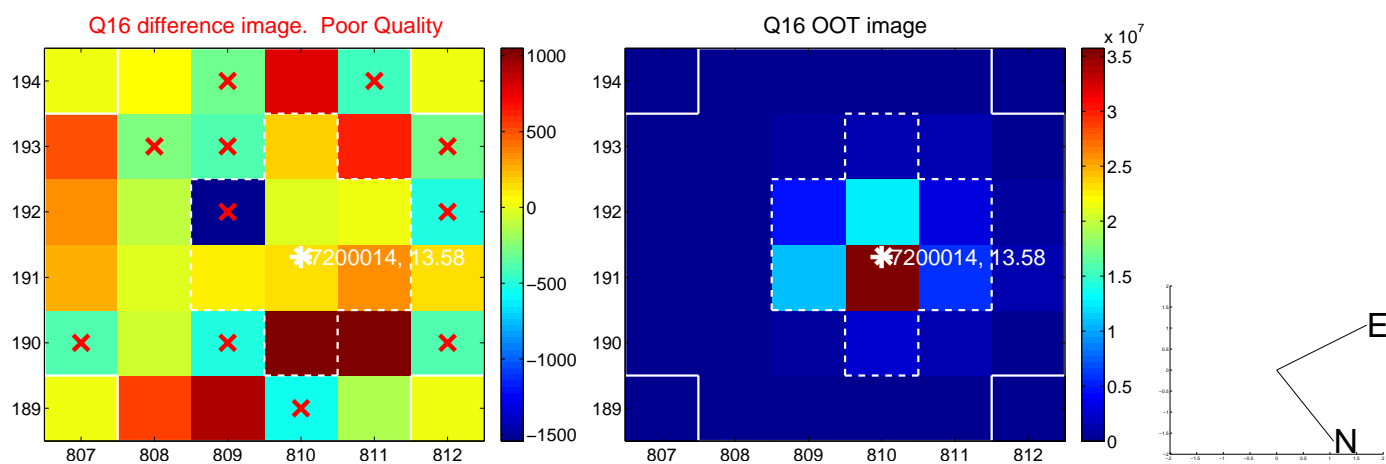
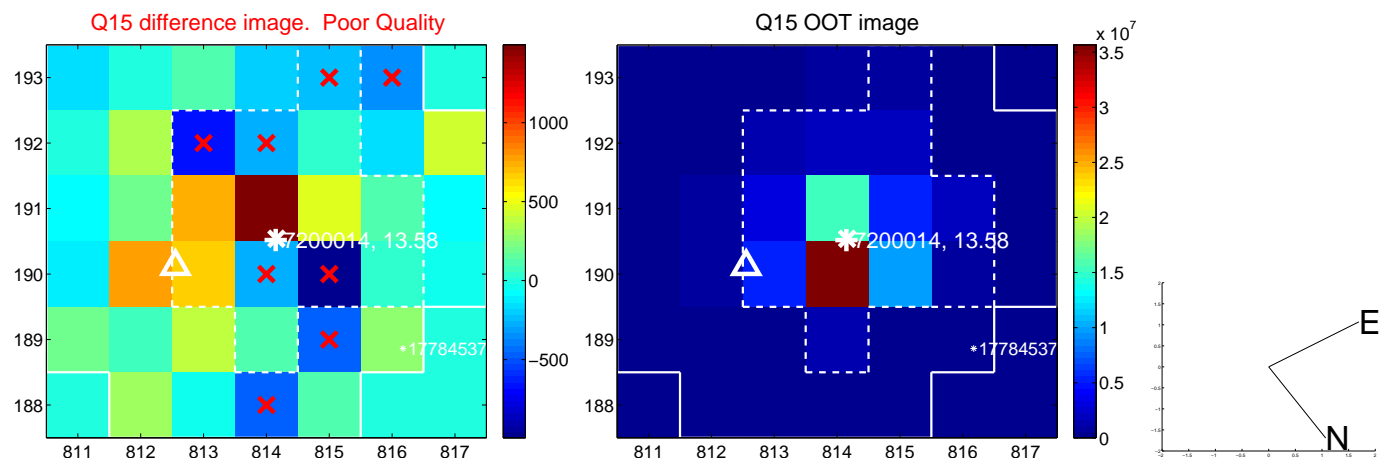
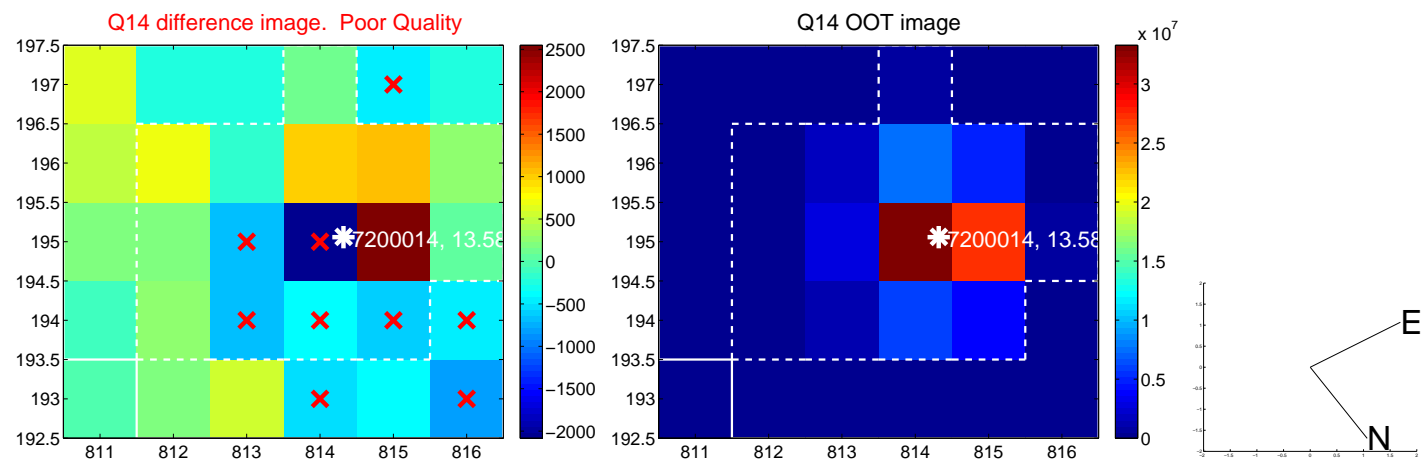
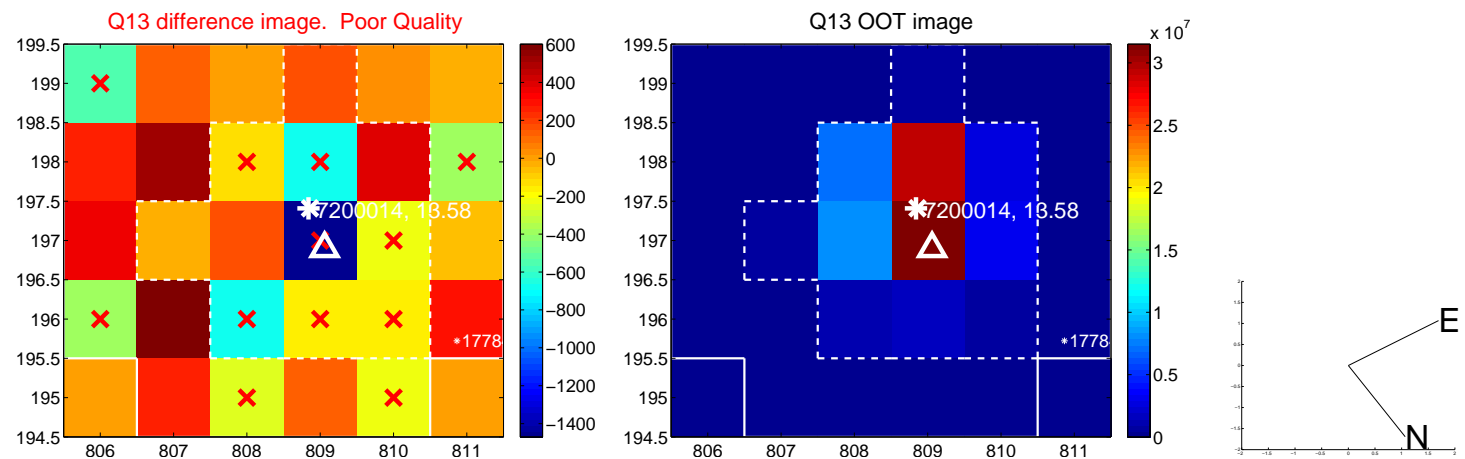
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



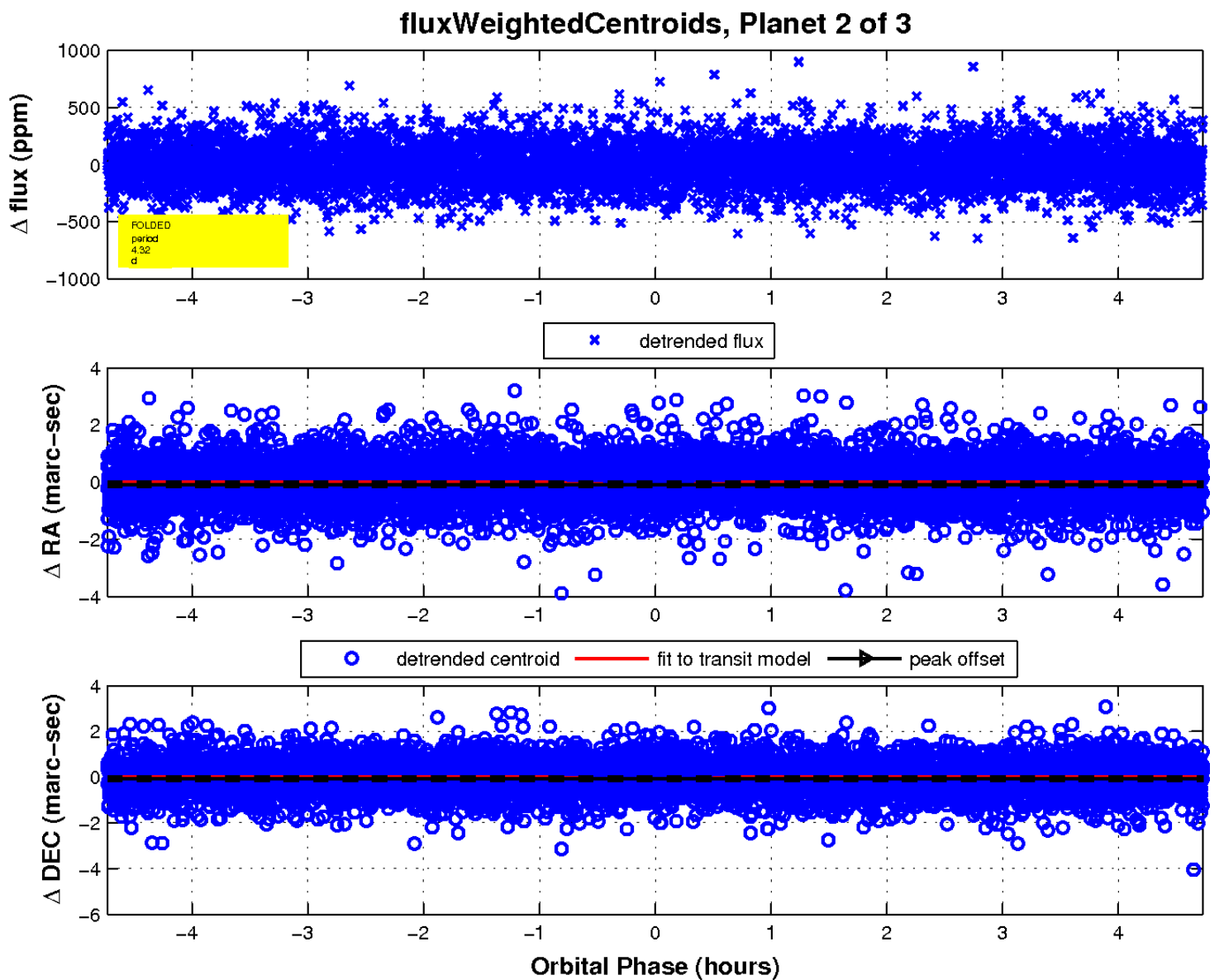
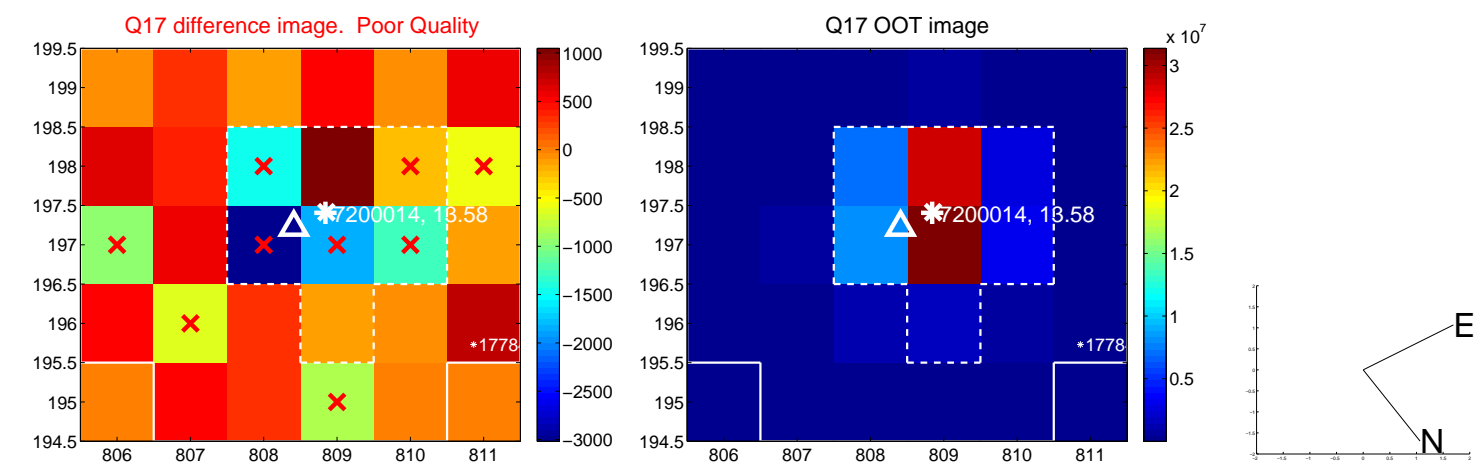
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



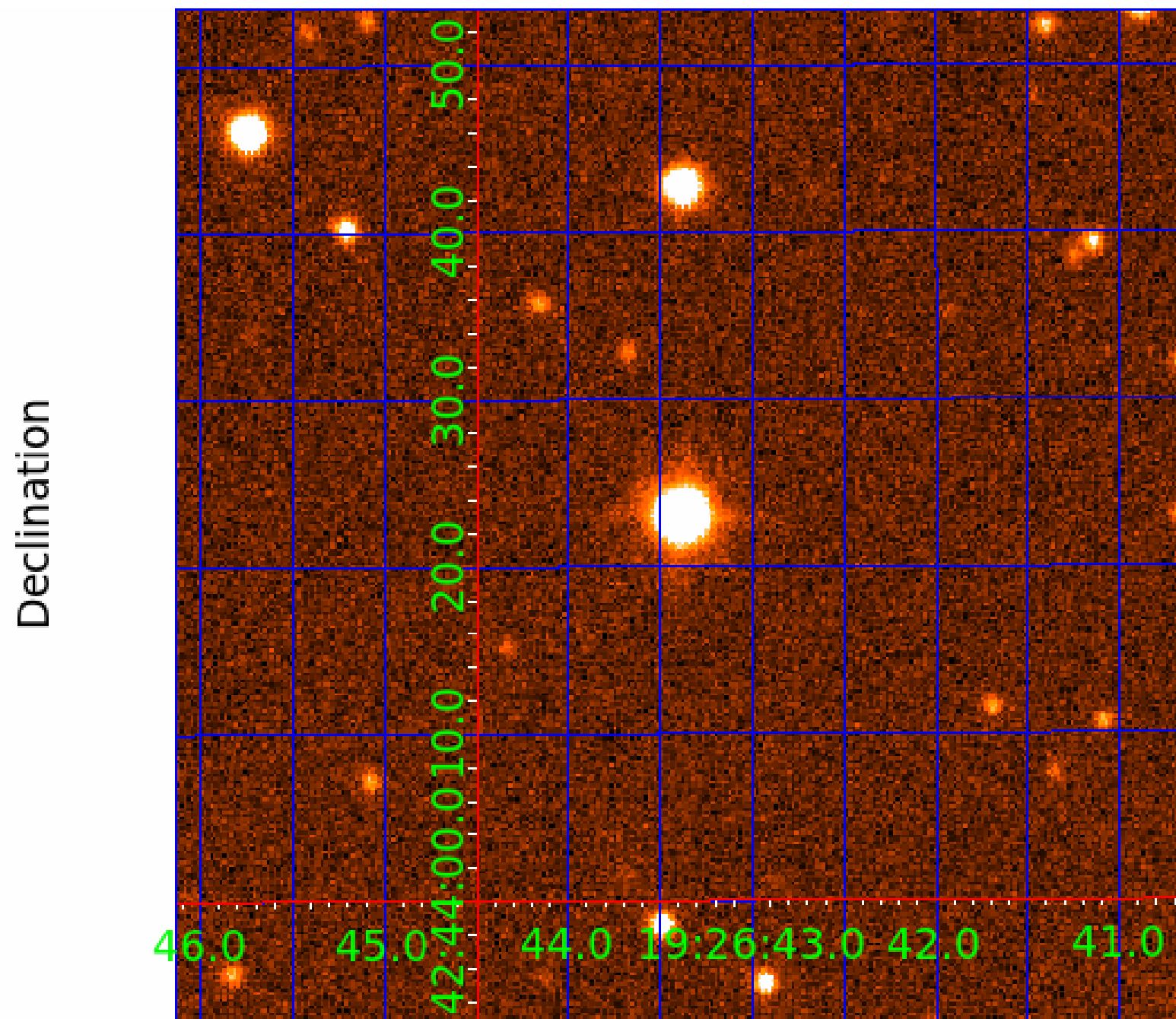
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 007200014

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})
007200014-01	OBS	No	0.566667	132.009540	0.8	4.261	8.4	0.4	2.87	5375	0.27	27457.42
007200014-02	OBS	No	4.316042	135.773812	125.4	1.578	14.8	11.8	2.87	5375	3.44	1832.24
007200014-03	OBS	No	8.398587	132.212887	253.2	1.474	15.4	17.3	2.87	5375	4.90	754.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007200014-01	OBS	FP	0.00	1	0	0	1	LPP_DV—LPP_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007200014-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS—HALO_GHOST
007200014-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

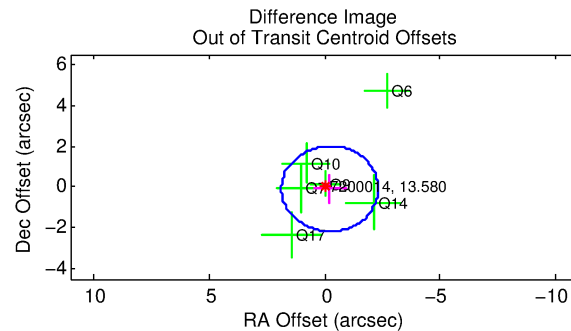
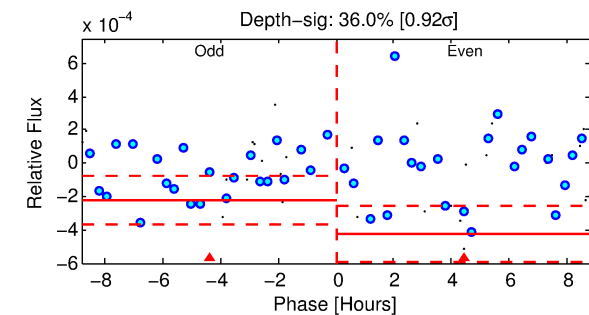
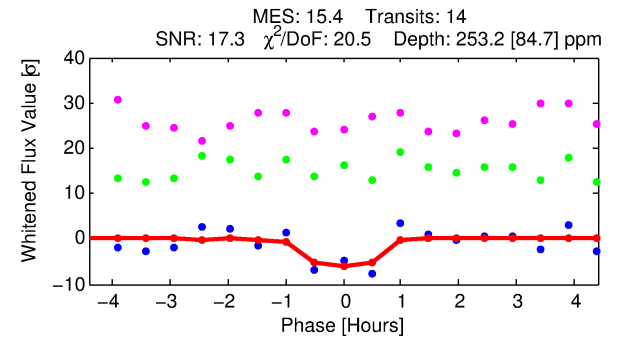
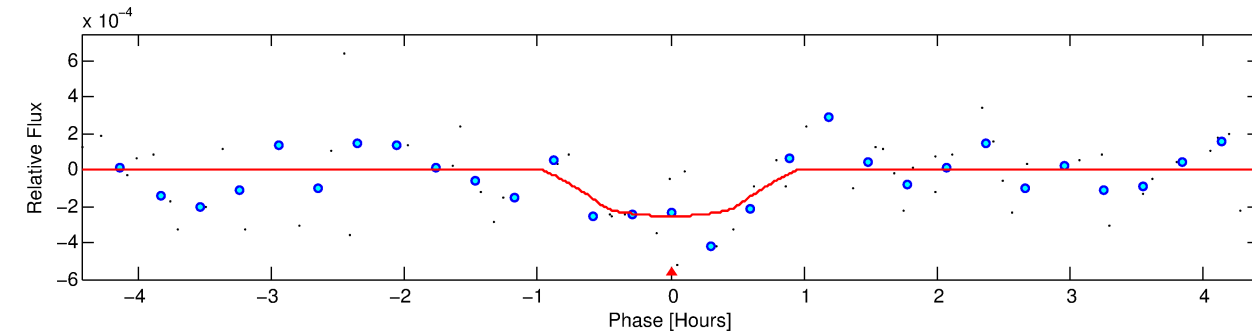
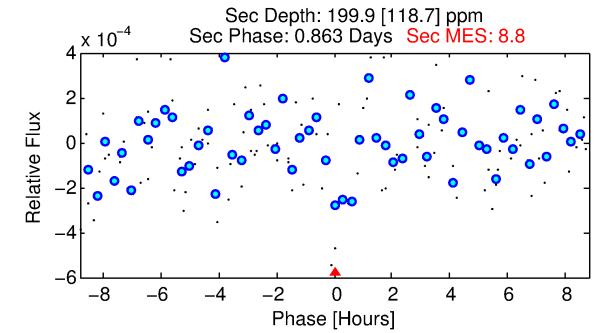
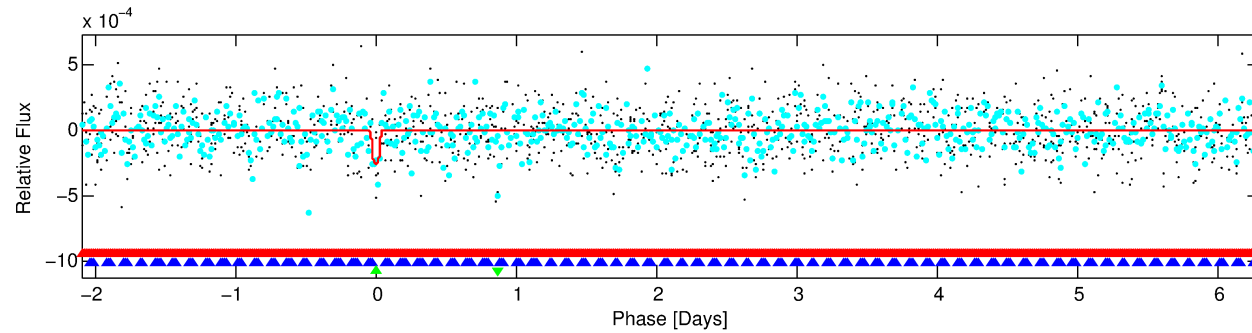
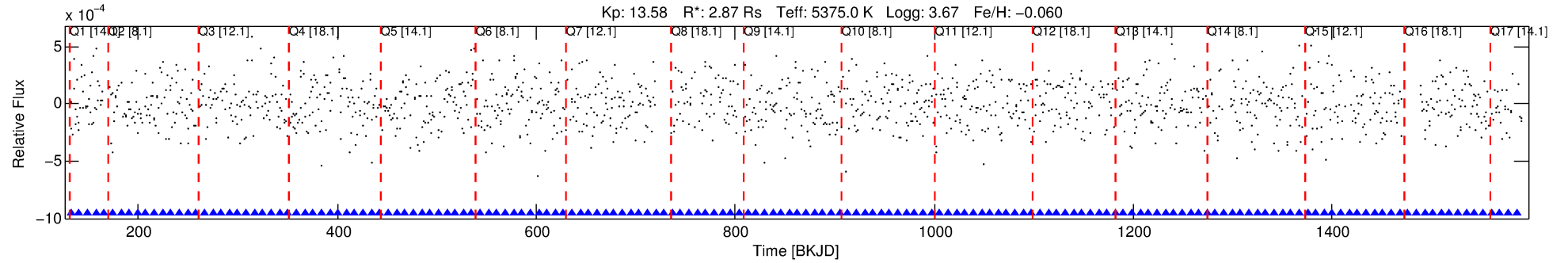
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007200014-03

No Significant Match Found

DV One-Page Summary

KIC: 7200014 Candidate: 3 of 3 Period: 8.399 d



DV Fit Results:

Period = 8.39859 [0.00019] d
Epoch = 132.2129 [0.0182] BKJD
Rp/R* = 0.0157 [0.0767]
a/R* = 31.84 [615.32]
b = 0.70 [14.08]
Seff = 754.20 [1011.38]
Teq = 1336 [448] K
Rp = 4.90 [24.26] Re
a = 0.0904 [0.0701] AU
Ag = 37.38 [370.34] [0.10 σ]
Teffp = 5108 [12540] K [0.30 σ]

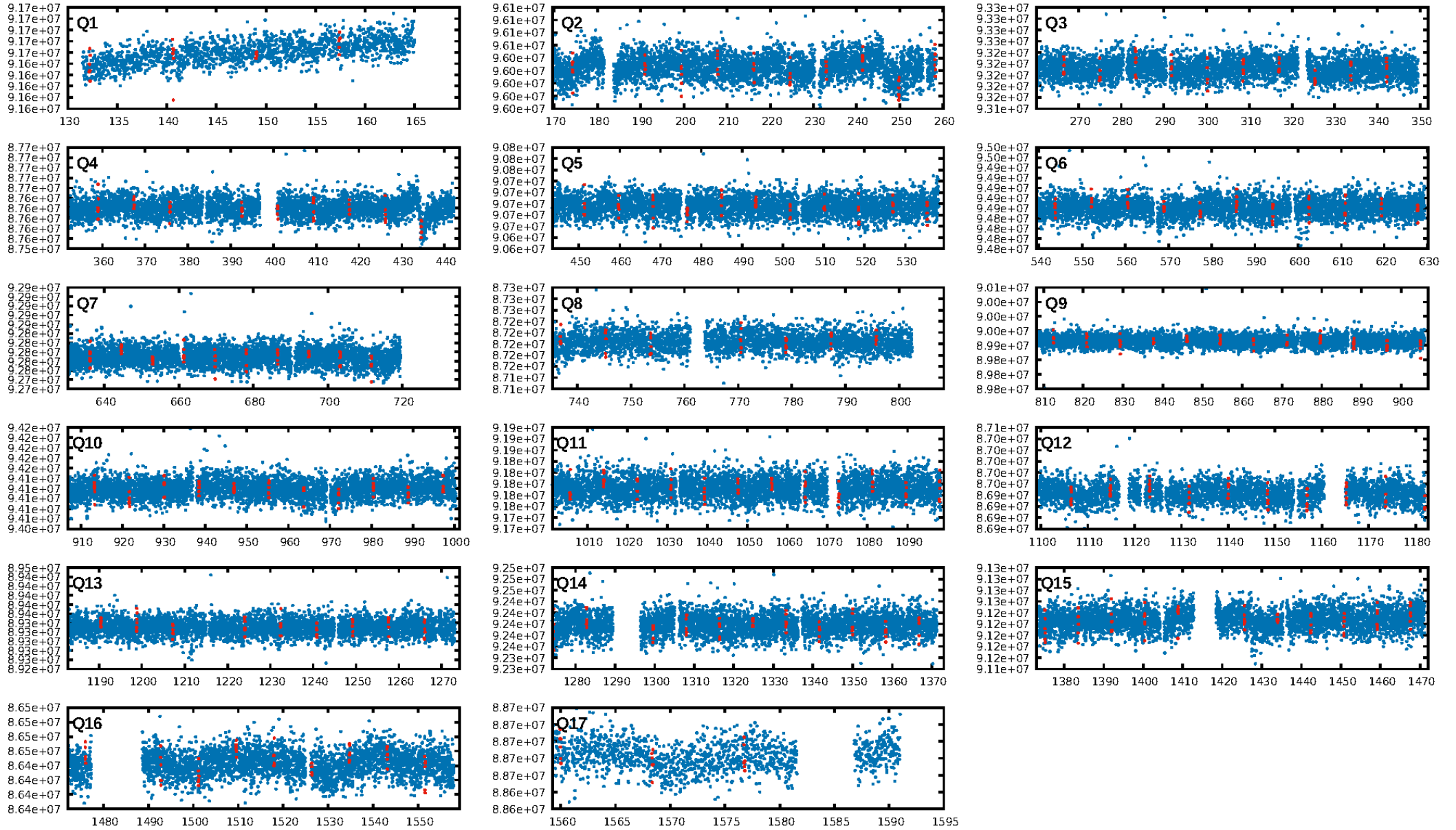
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [45.37 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 1.44e-06
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: 4.467
Centroid-sig: 2.0%
Centroid-so: 0.604 arcsec [1.50 σ]
OotOffset-rm: 0.239 arcsec [0.34 σ]
OotOffset-st: 3/1/0/2 [6]
KicOffset-rm: 0.290 arcsec [0.42 σ]
KicOffset-st: 3/1/0/2 [6]
DiffImageQuality-fgm: 0.67 [4/6]
DiffImageOverlap-fno: 0.00 [0/17]

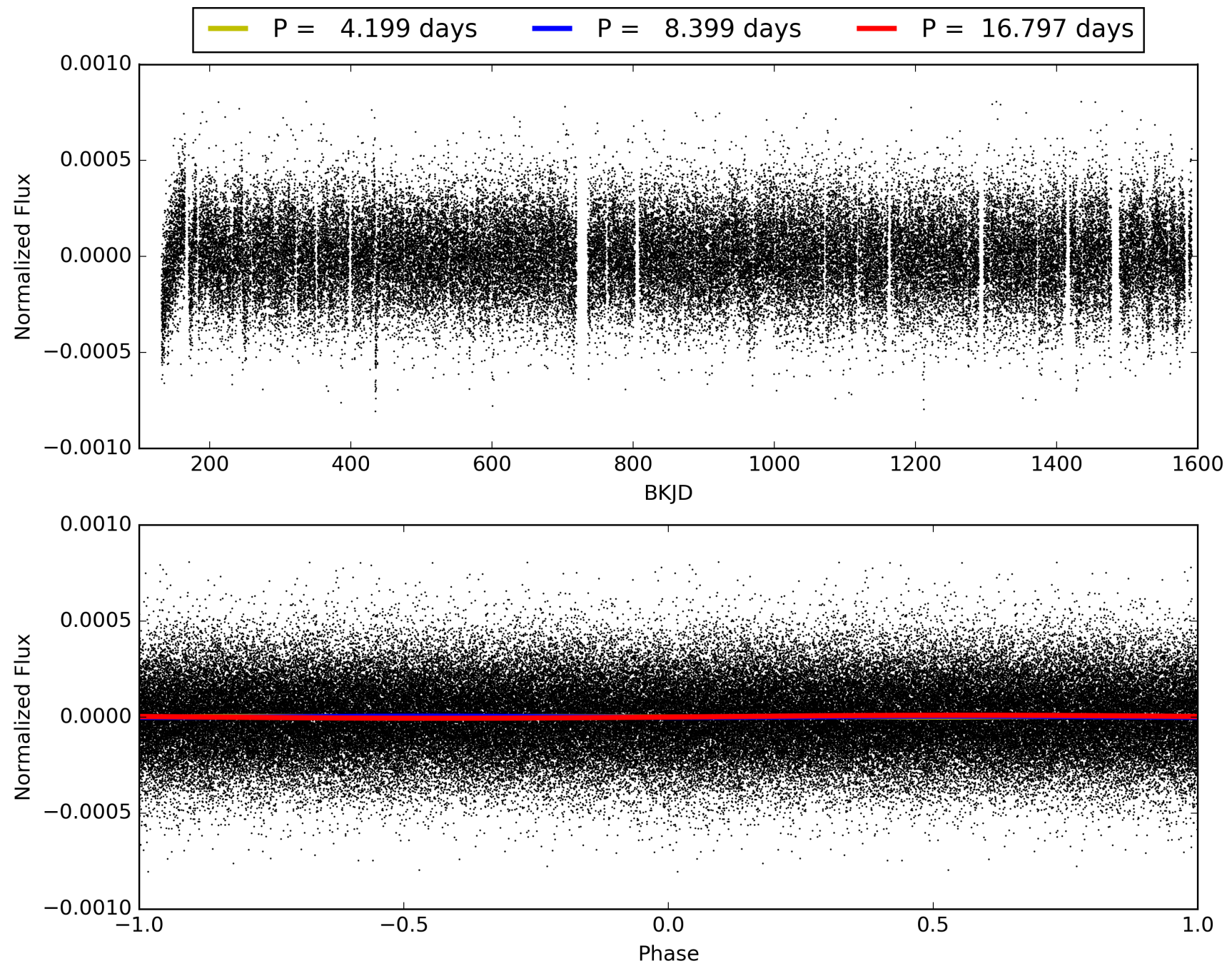
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 23:26:19 Z

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

TCE 007200014-03, PDC Light Curves

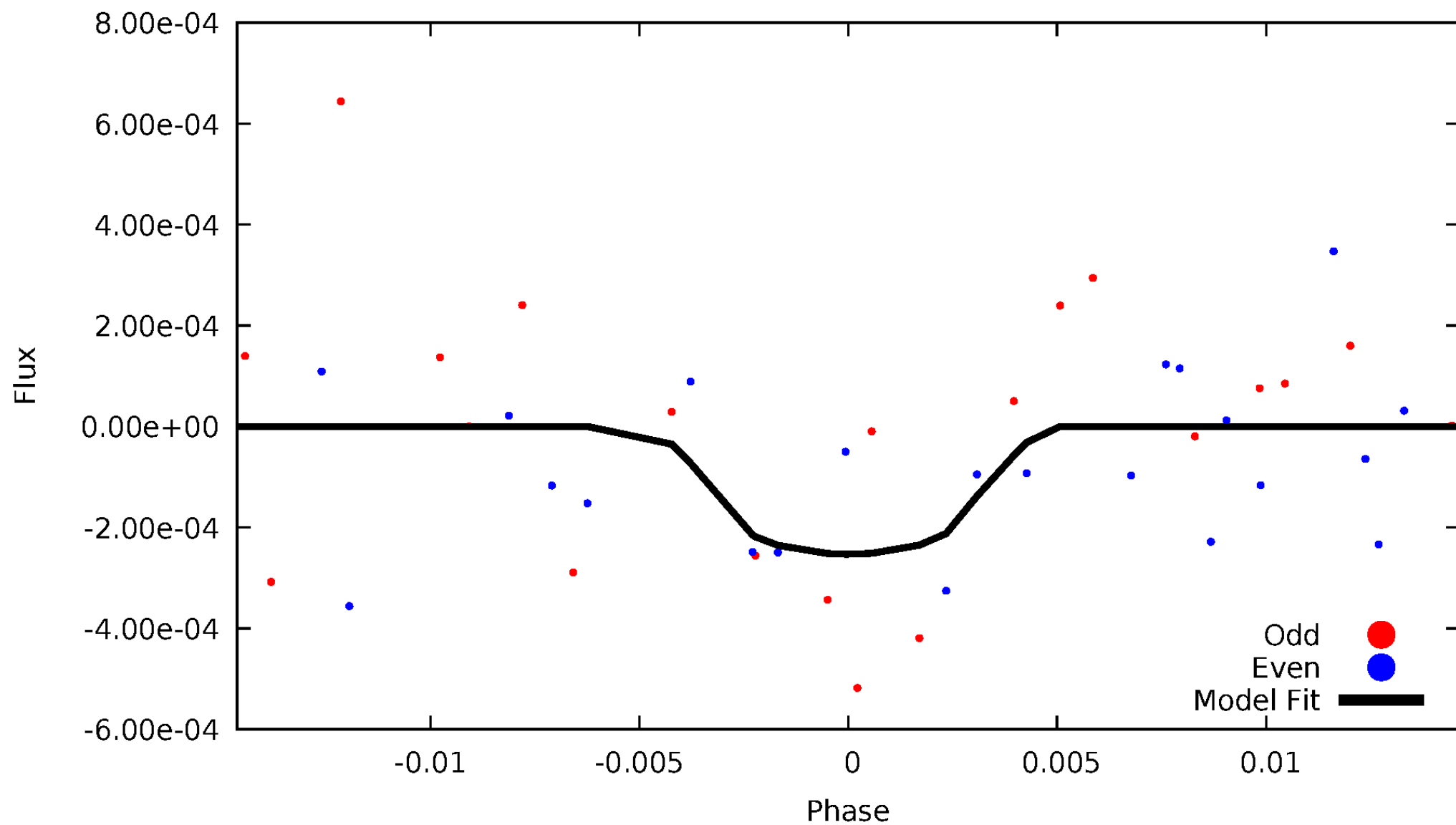


TCE 007200014-03



DV Odd/Even

TCE 007200014-03

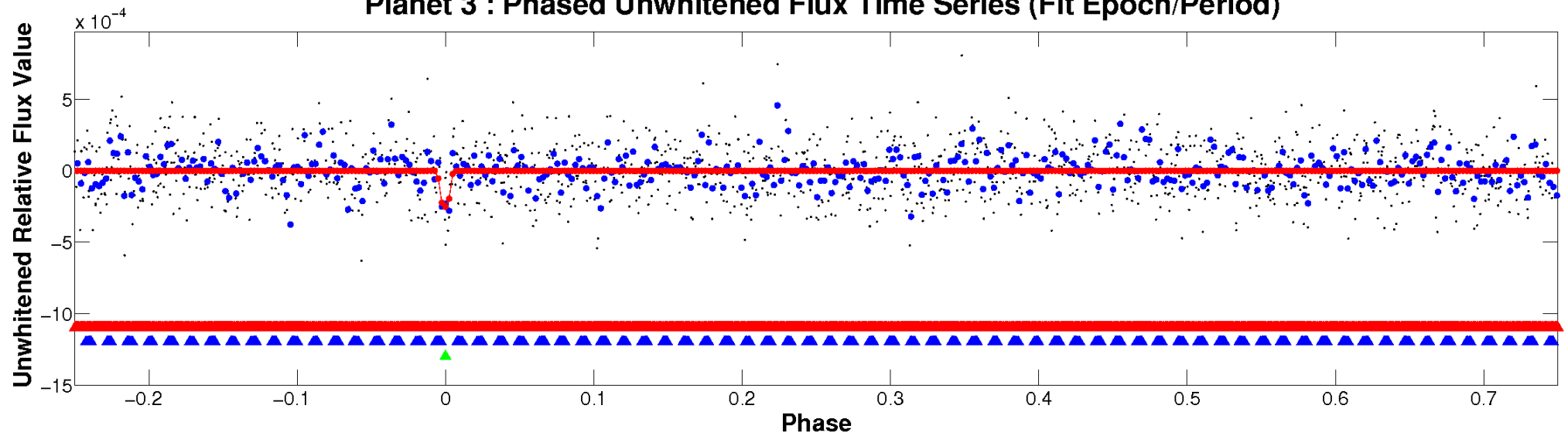


ALT Odd/Even

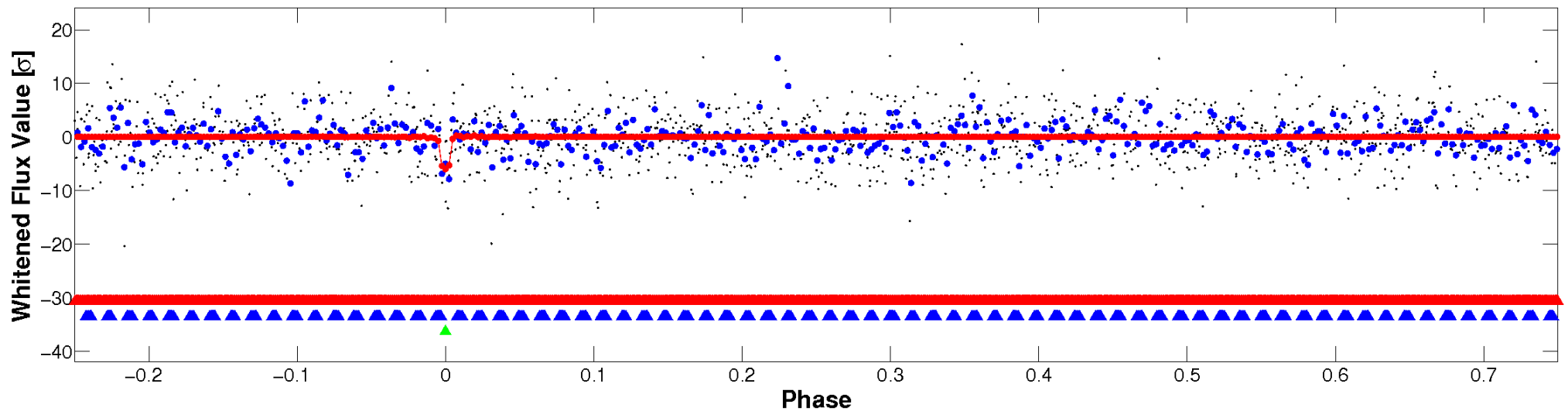
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

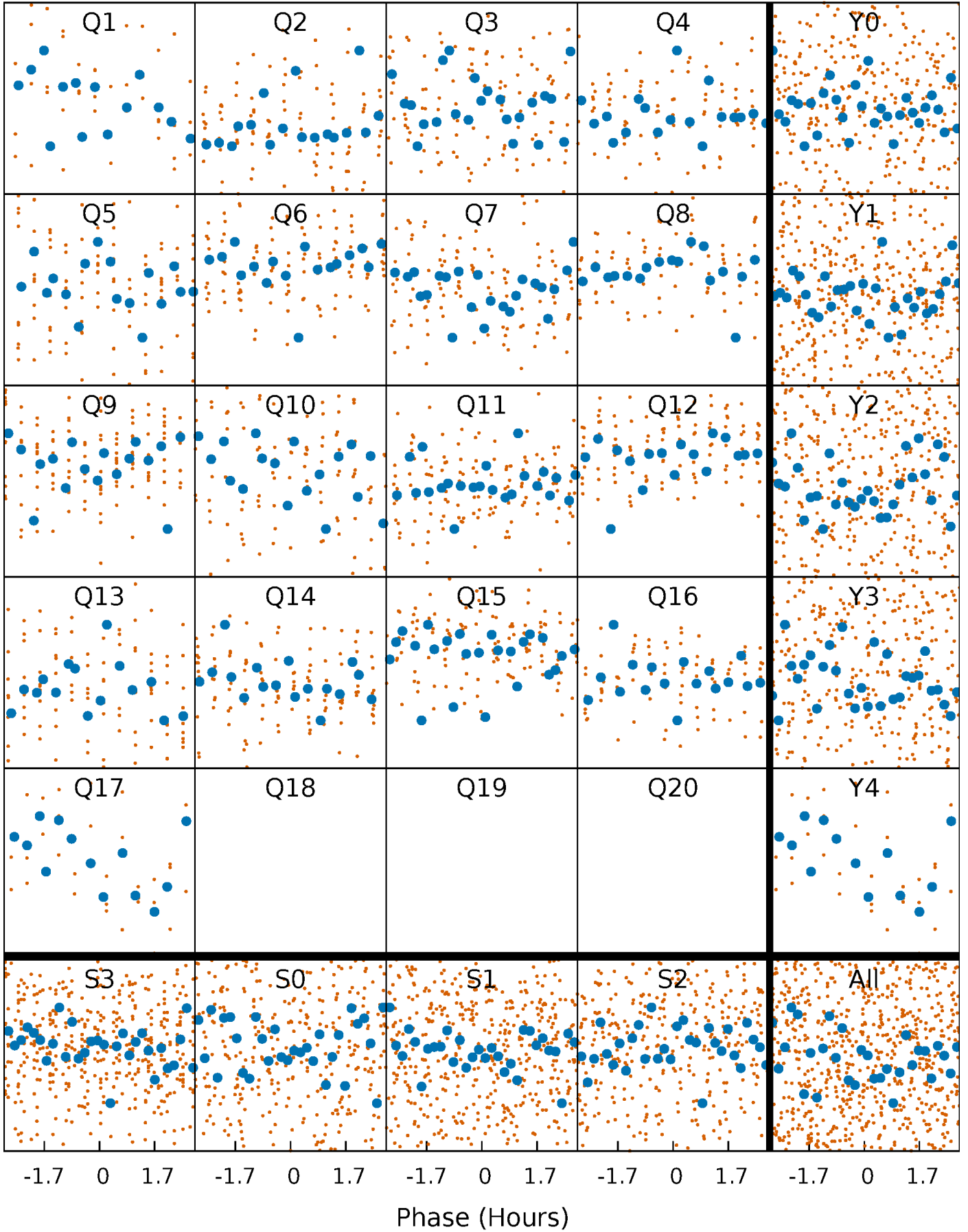


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



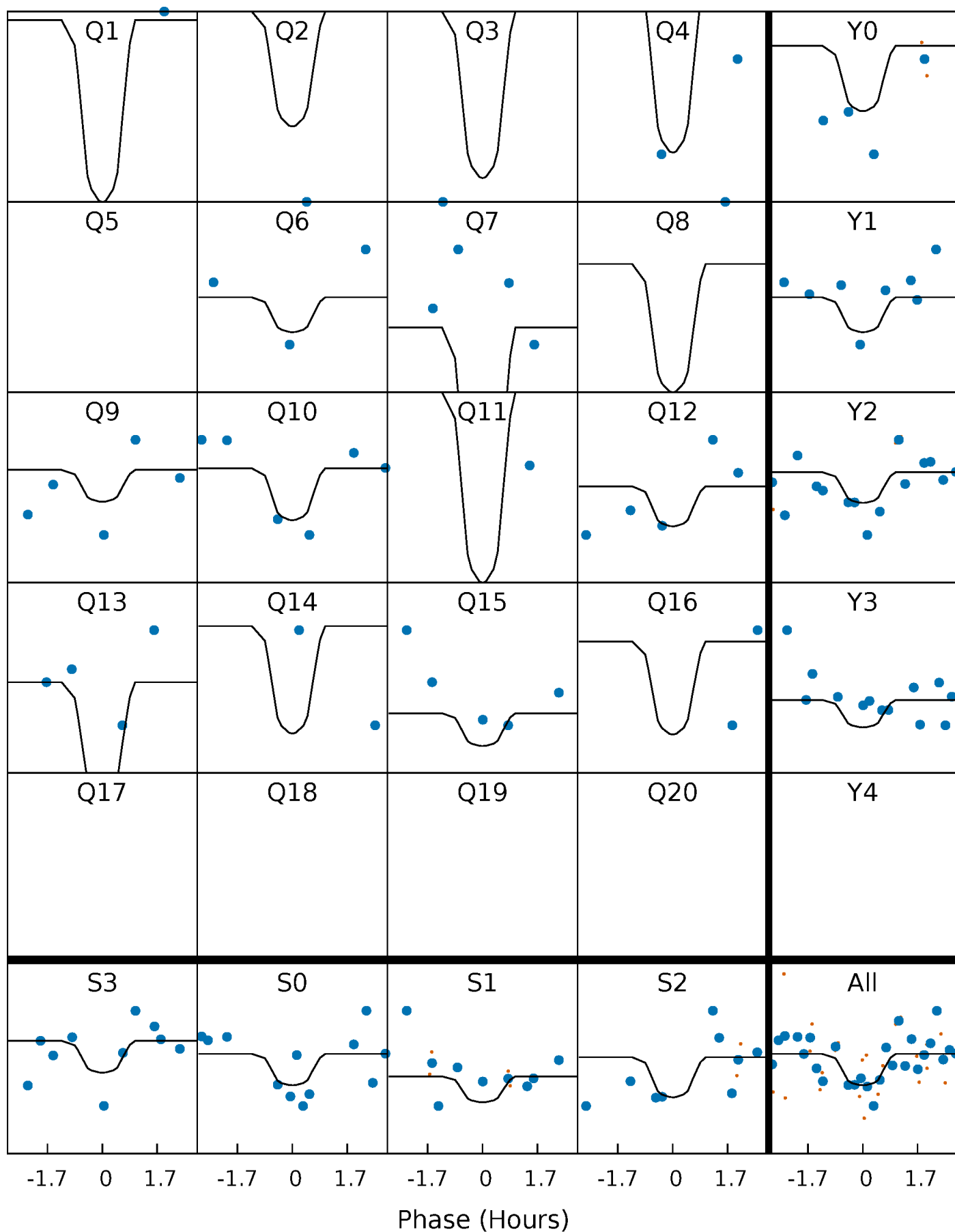
PDC Quarter-Phased Transit Curves

TCE 007200014-03 P= 8.398587 Days $T_0=132.212887$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007200014-03 P= 8.398587 Days $T_0=132.212887$ (BKJD)

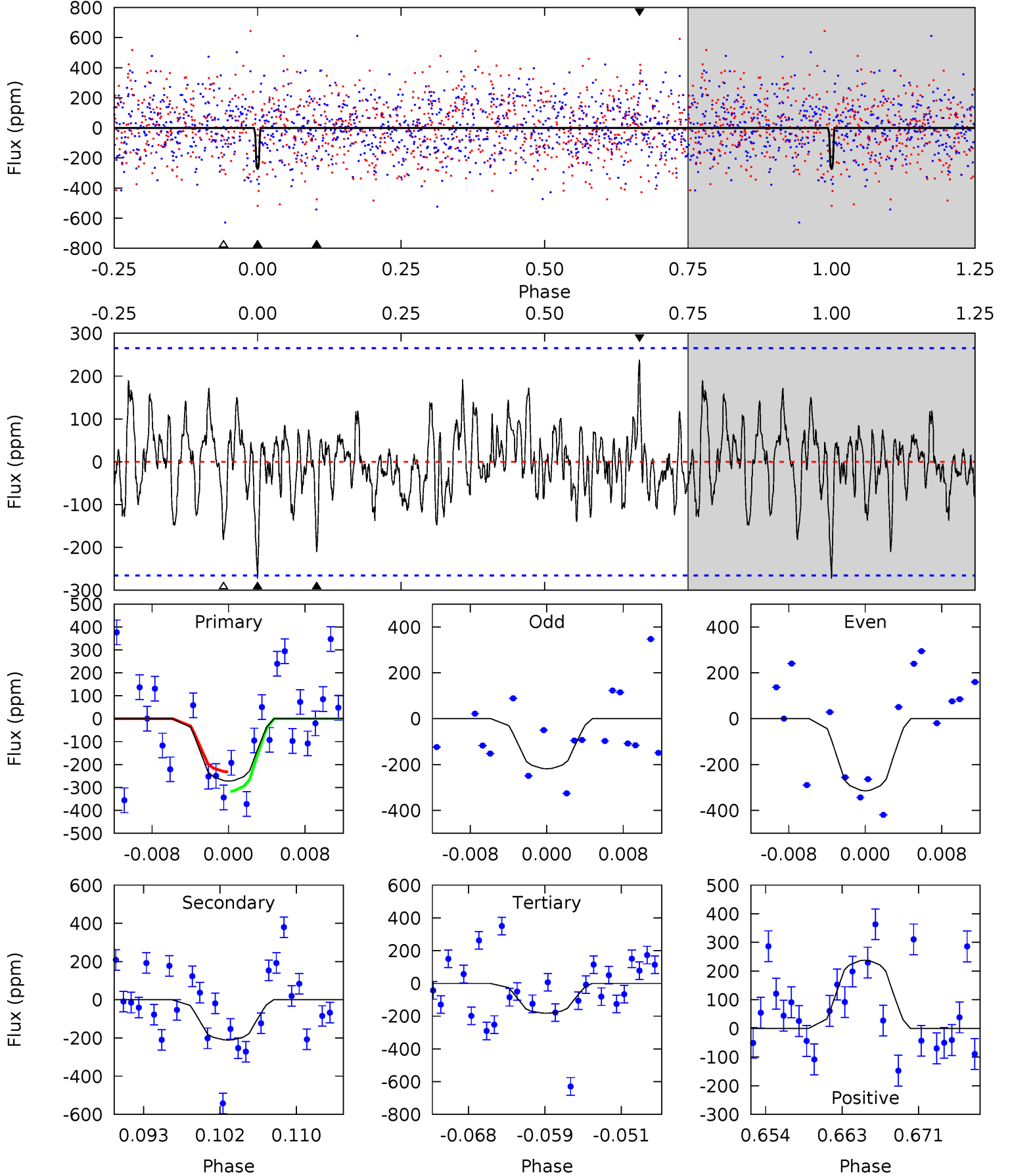


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007200014-03, P = 8.398587 Days, E = 132.212887 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.19	4.02	3.47	4.54	5.06	2.63	1.29	1.72	0.65	0.55	-0.52	0.92	0	0.47	0.81



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007200014

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5375^{+191}_{-175}	$3.667^{+0.816}_{-0.204}$	$-0.060^{+0.350}_{-0.250}$	$2.871^{+0.844}_{-1.969}$	$1.397^{+0.214}_{-0.500}$	$0.083^{+1.449}_{-0.040}$
	+4%/-3%	+22%/-6%	+583%/-417%	+29%/-69%	+15%/-36%	+1742%/-48%
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 007200014-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-211 ± 52	$15.60^{+20.79}_{-11.13}$	1838^{+197}_{-329}	3189^{+1677}_{-724}	$3.639^{+39.684}_{-2.946}$
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 $A_{\text{obs}} \gg 1.0$

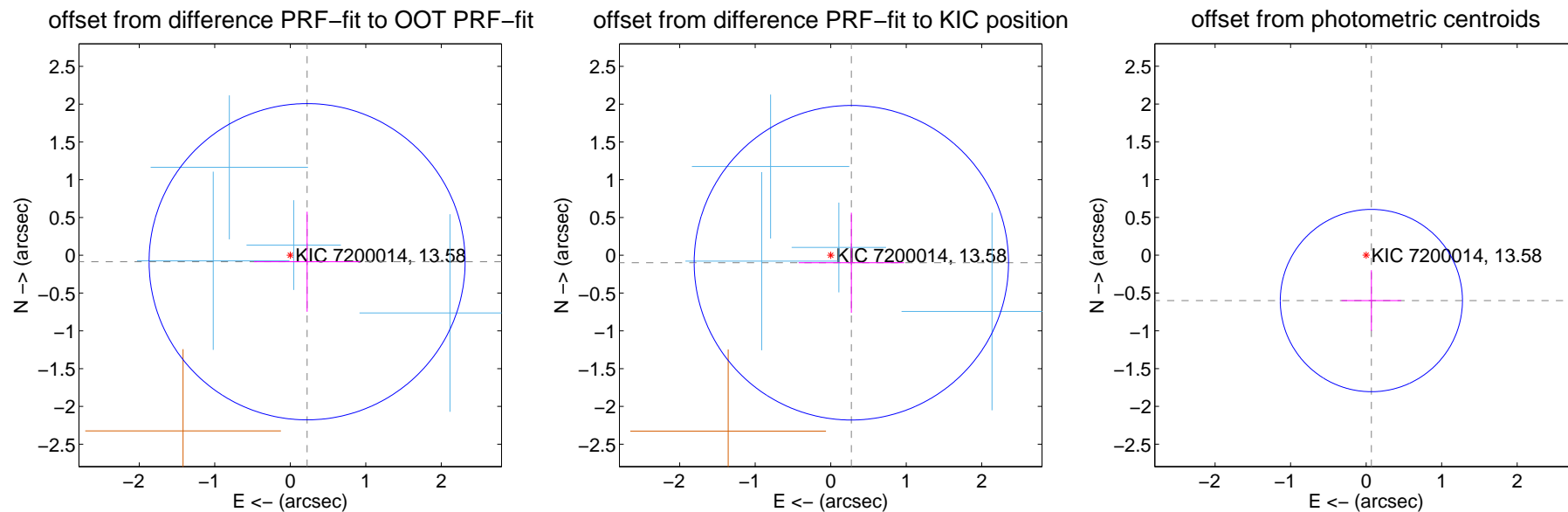
DV Centroid Data

Supplemental centroid analysis for 007200014-03. Kepler magnitude: 13.58. Transit SNR 17.26

There are 4 quarters with good PRF difference image offsets

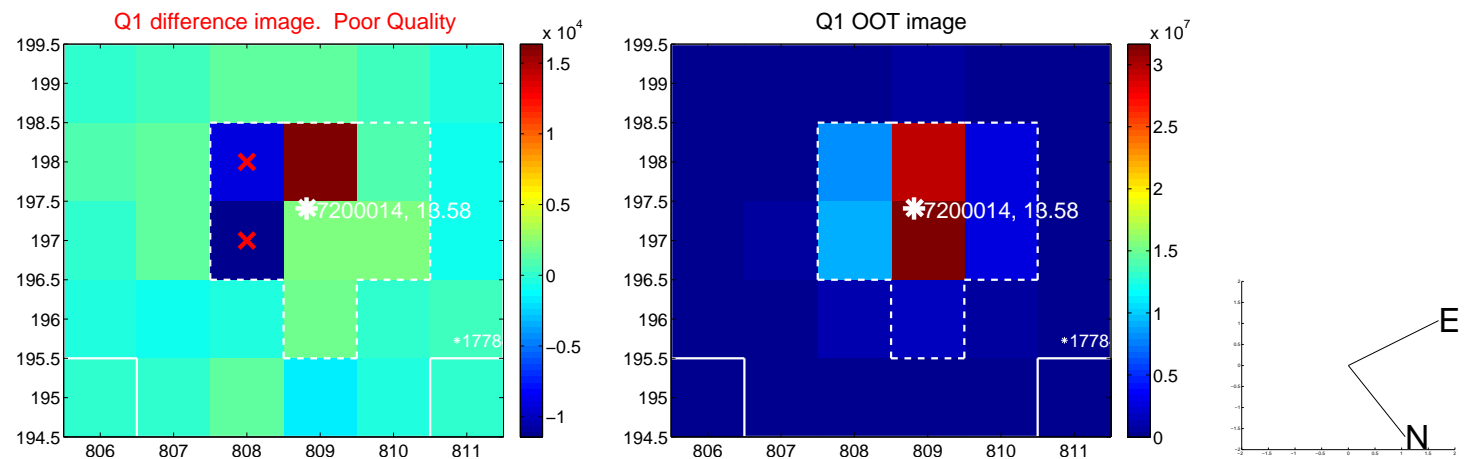
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.239 ± 0.697	0.34	-0.223 ± 0.702	-0.085 ± 0.662
PRF-fit source offset from KIC position	0.290 ± 0.694	0.42	-0.273 ± 0.698	-0.099 ± 0.662
photometric centroid source offset	0.60 ± 0.40	1.50	-0.07 ± 0.40	-0.60 ± 0.40

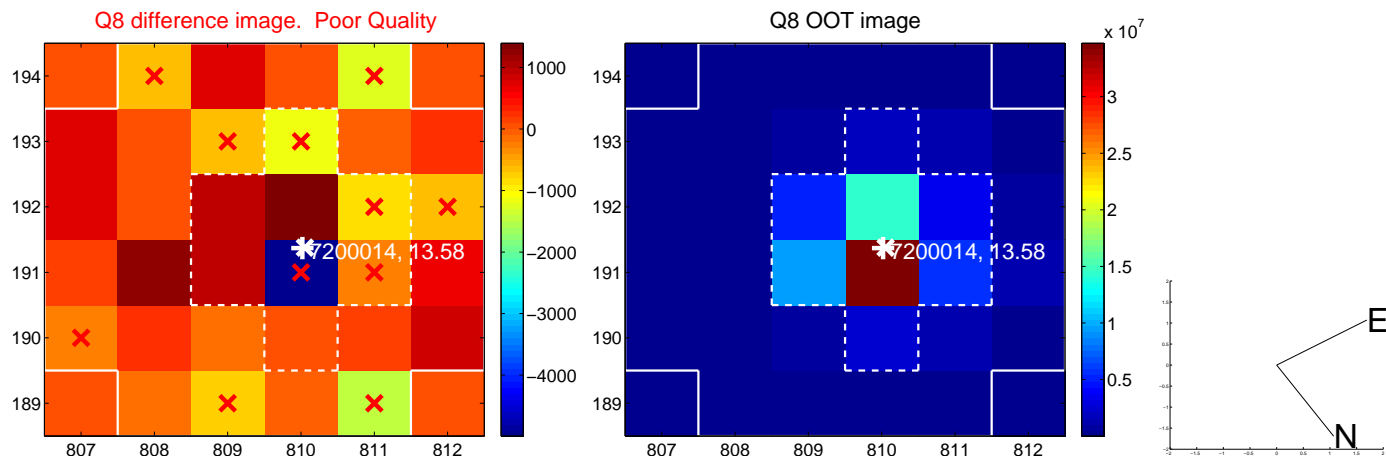
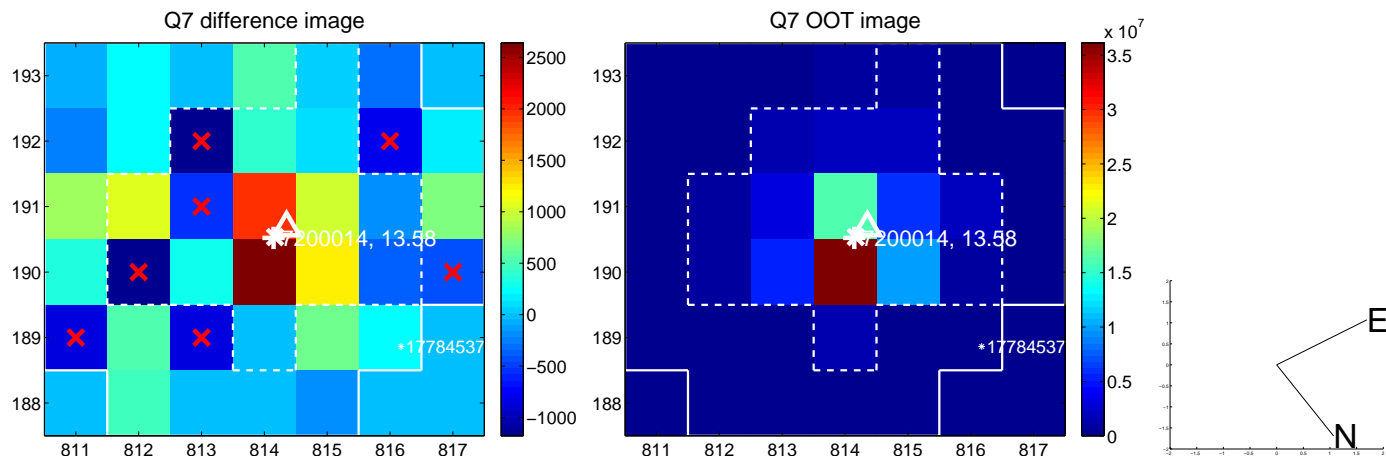
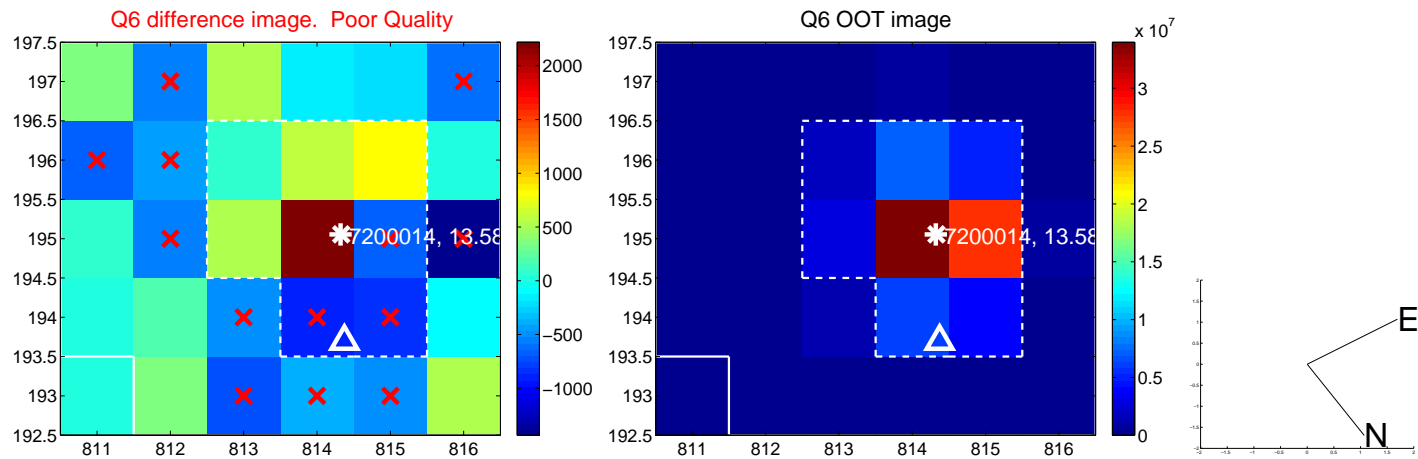
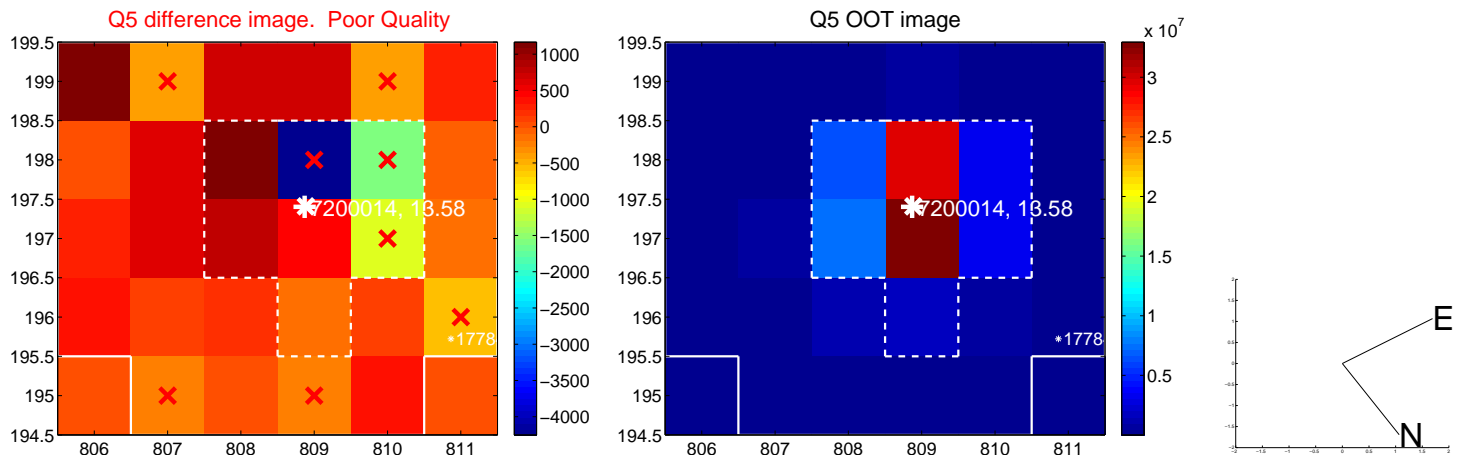


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

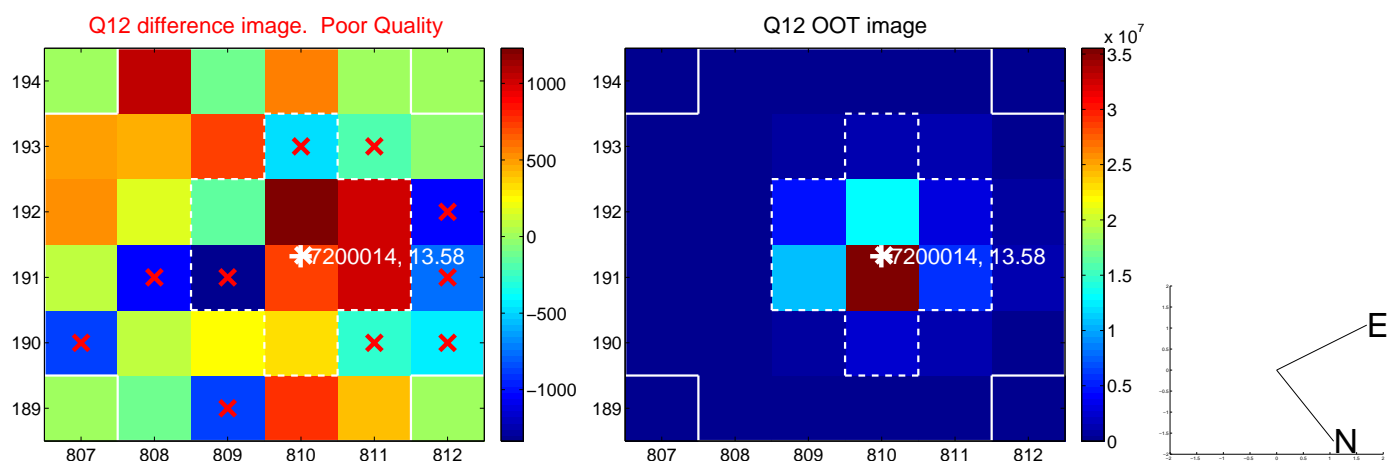
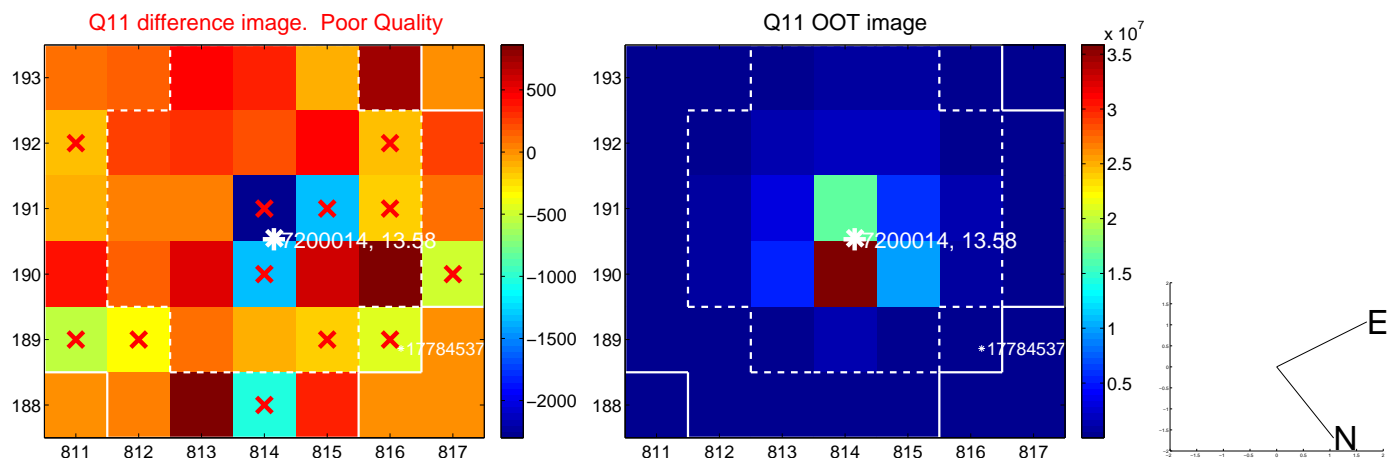
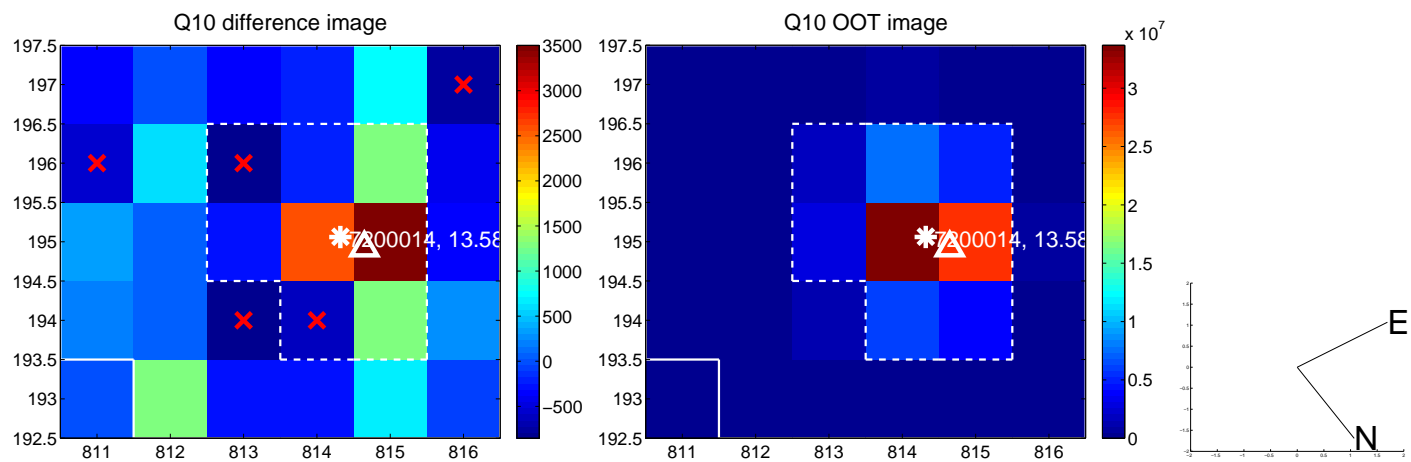
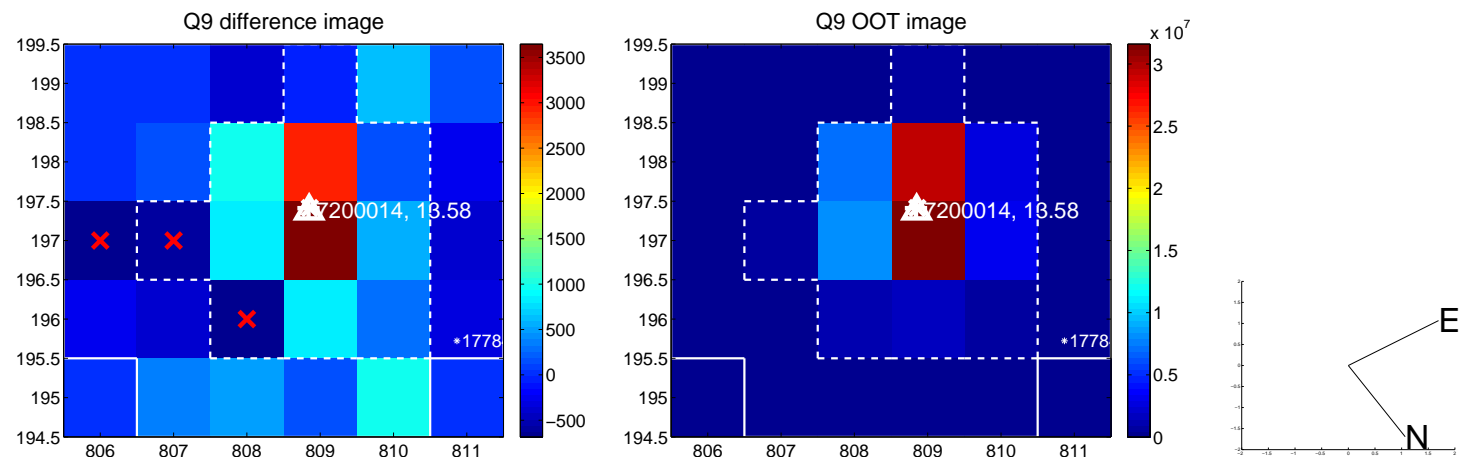
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



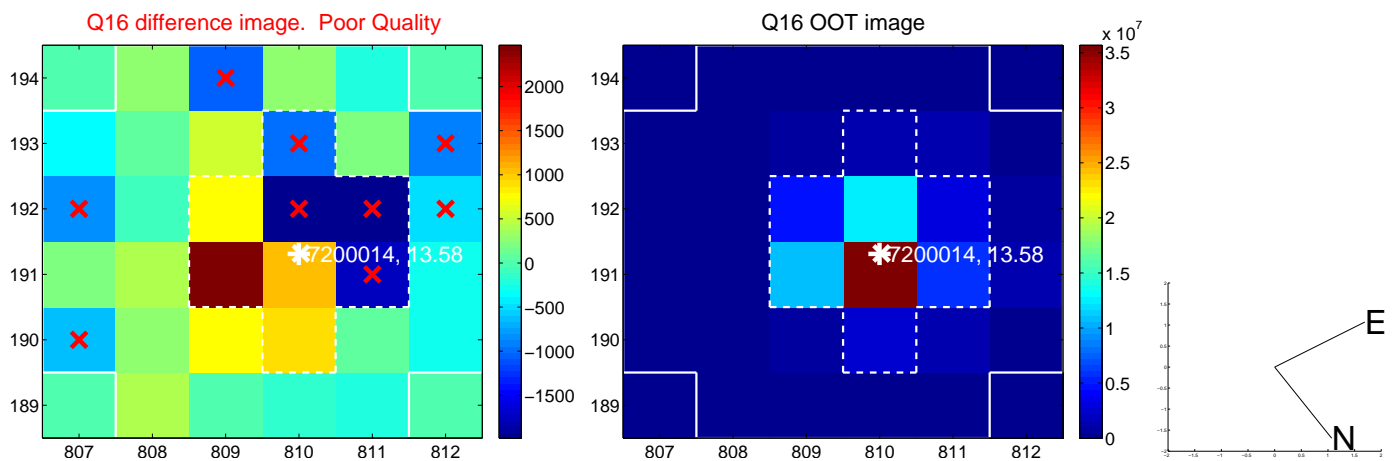
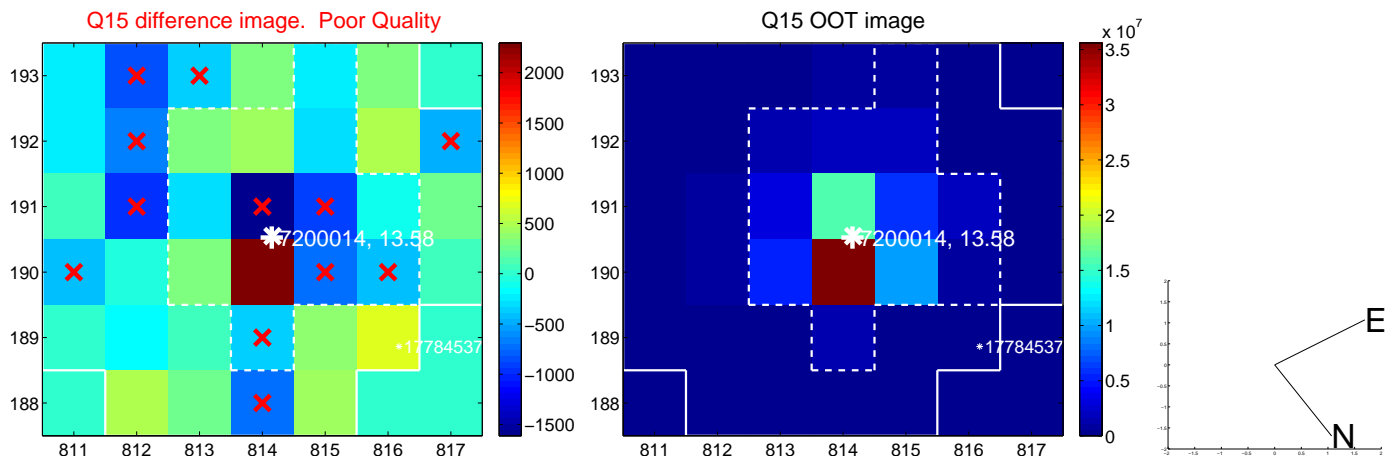
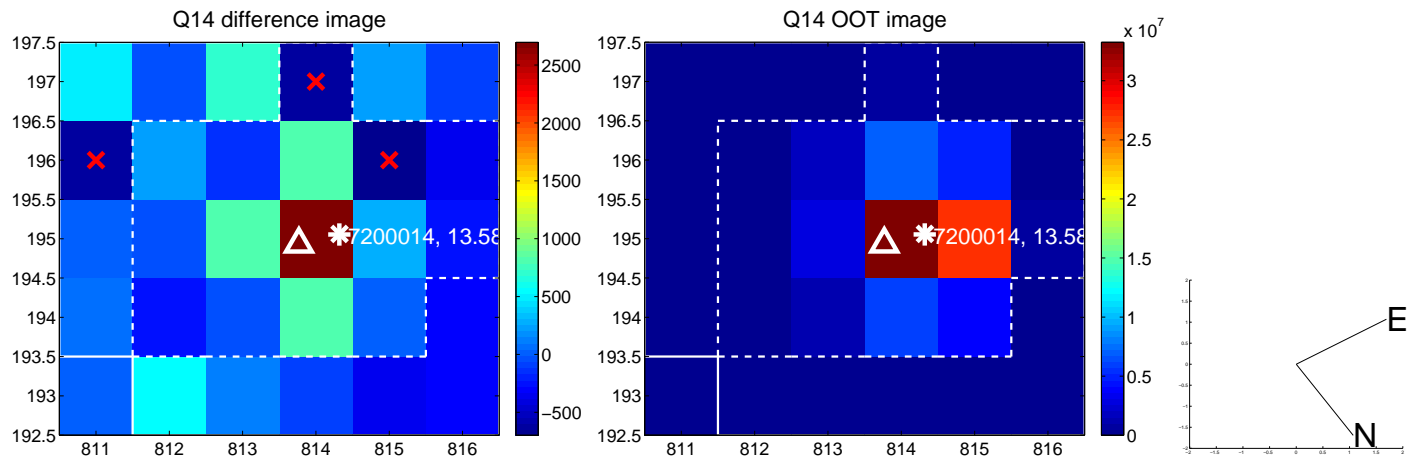
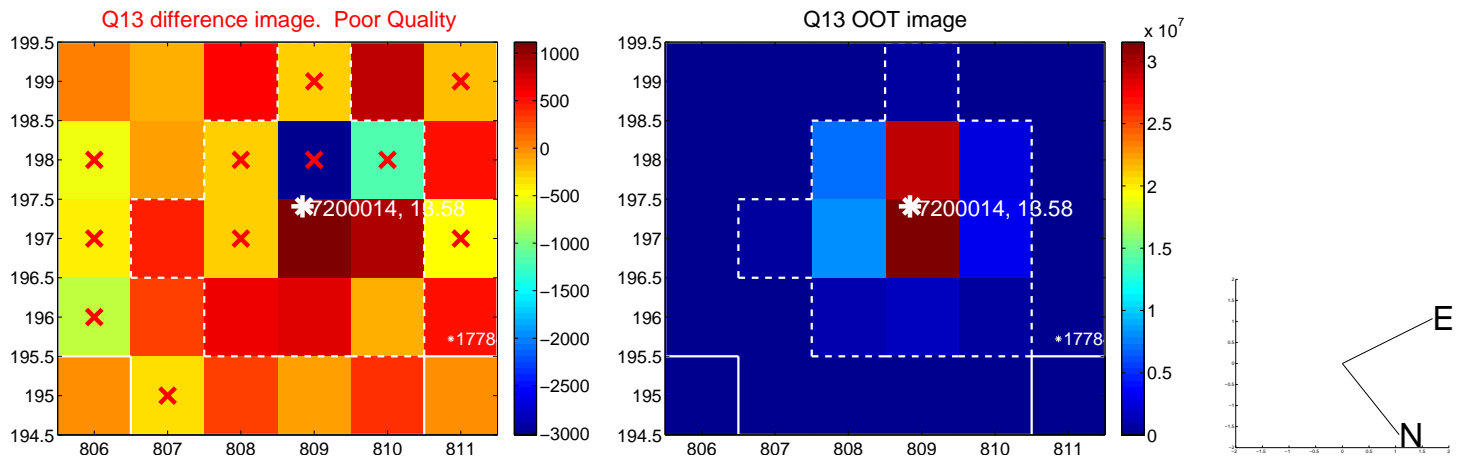
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



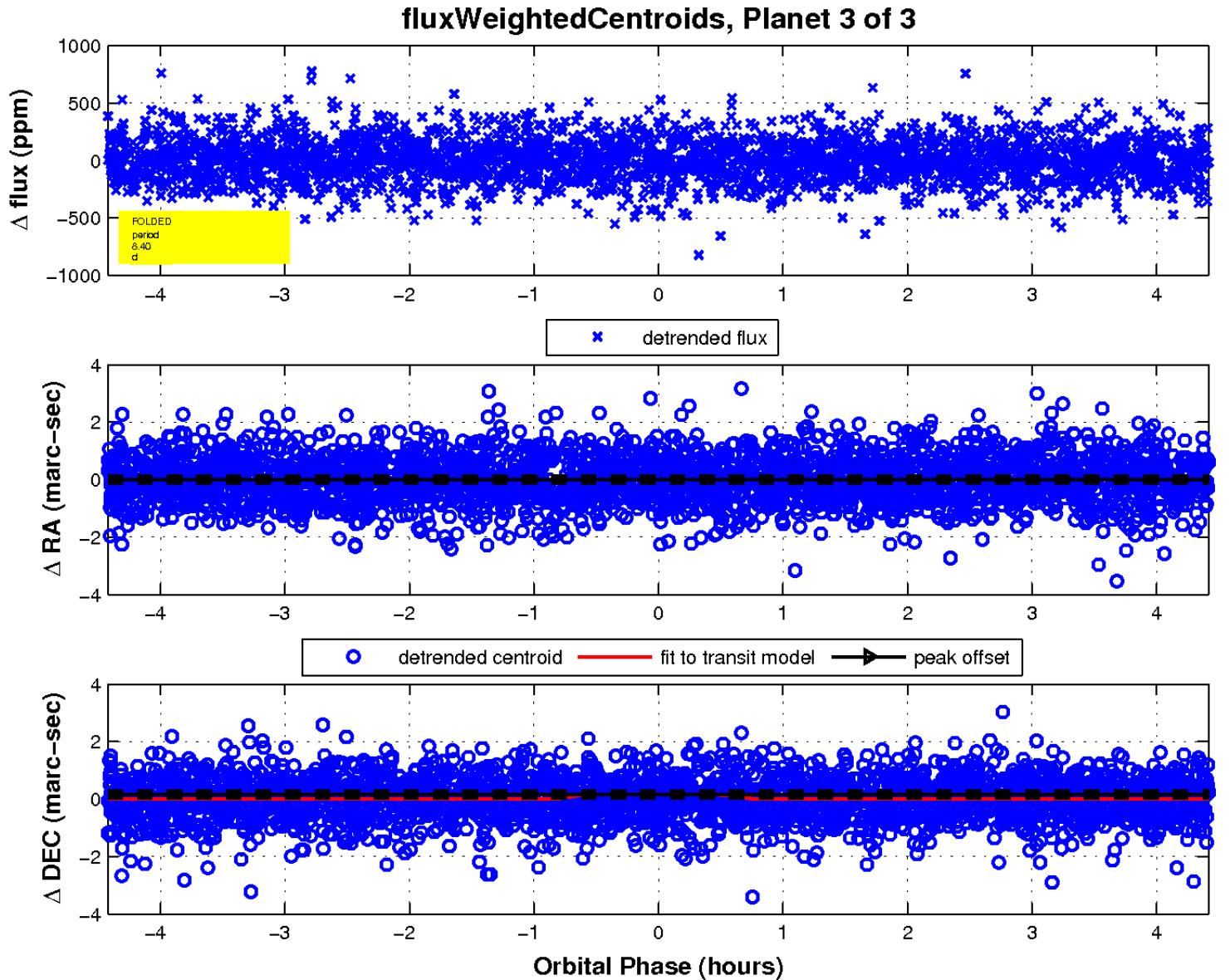
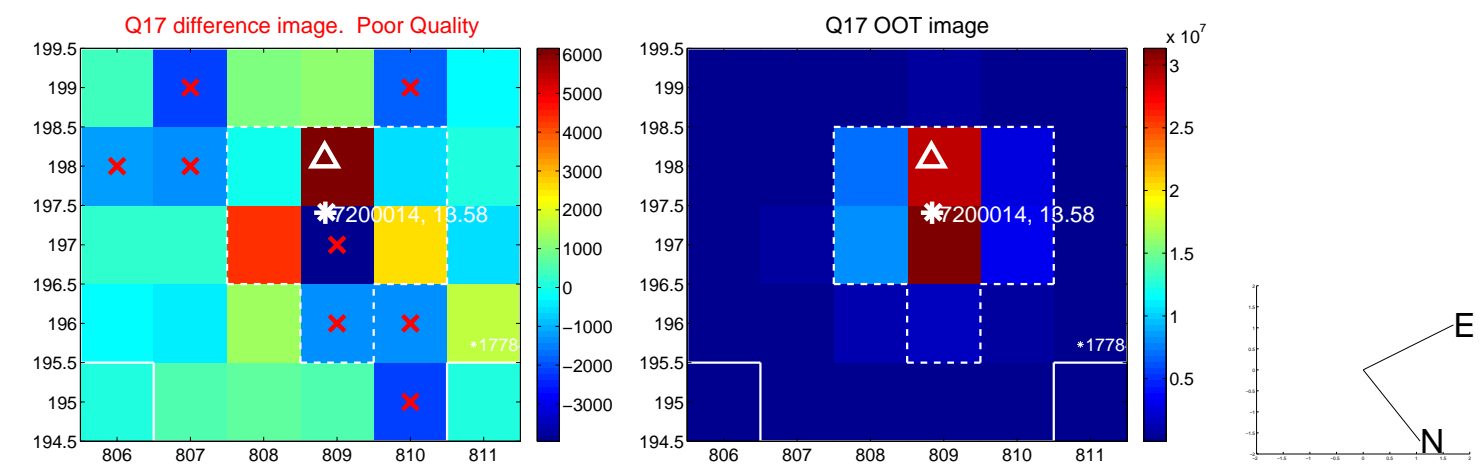
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

