

KIC 009895269

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})
009895269-01	OBS	No	0.552257	131.526258	41.2	2.915	14.5	2.6	2.69	8552	1.79	118100.72
009895269-02	OBS	No	0.552066	131.528480	402.6	2.206	13.1	16.3	2.69	8552	5.53	118155.11
009895269-03	OBS	No	0.552091	131.822178	335.0	2.068	12.3	12.0	2.69	8552	5.04	118148.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009895269-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
009895269-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—SAME_NTL_PERIOD
009895269-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—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.

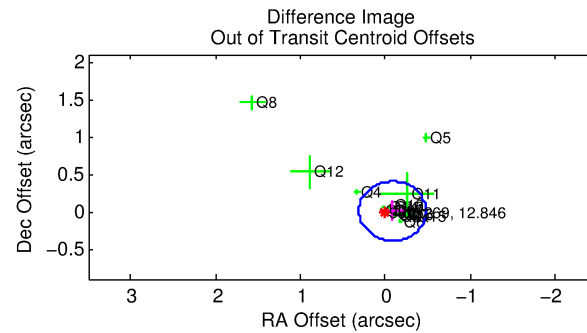
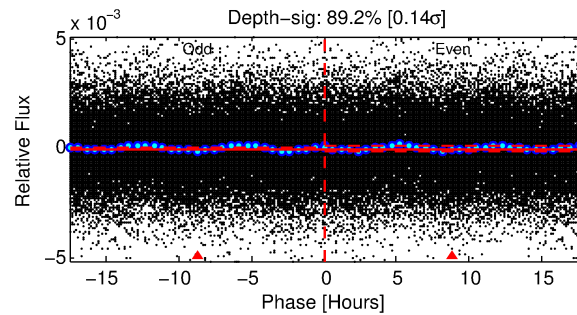
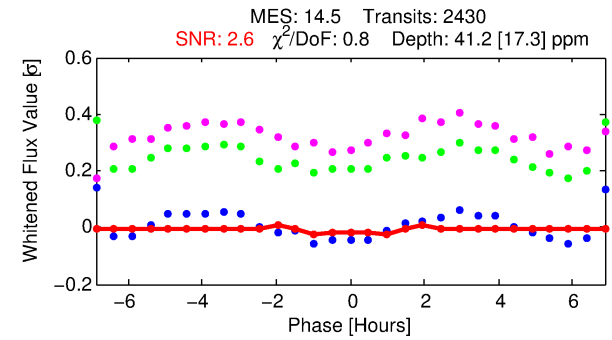
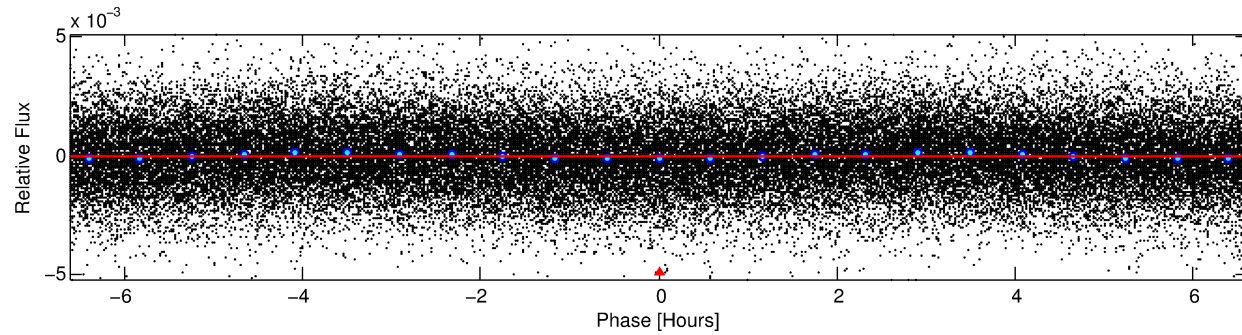
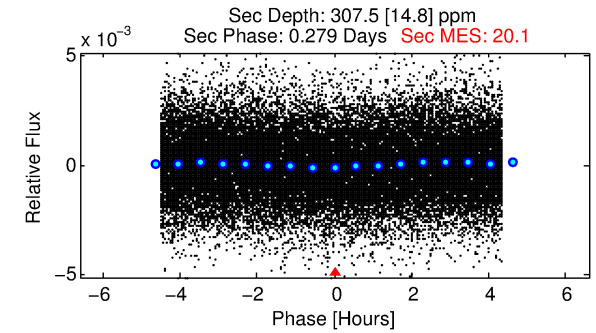
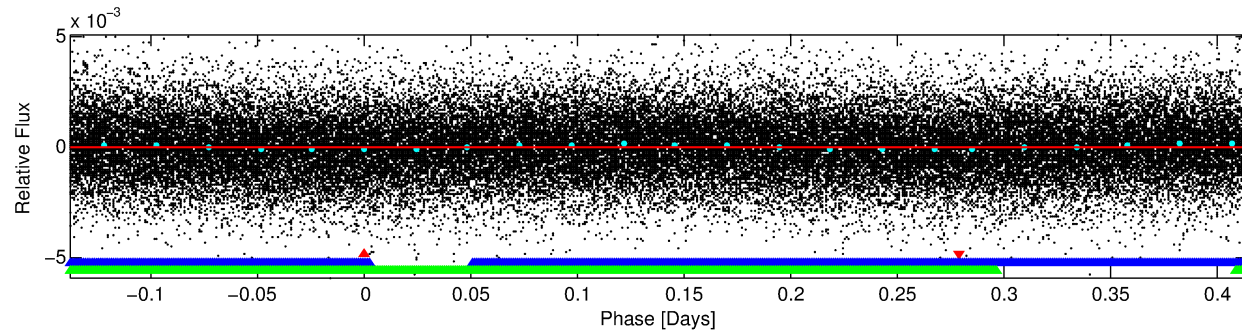
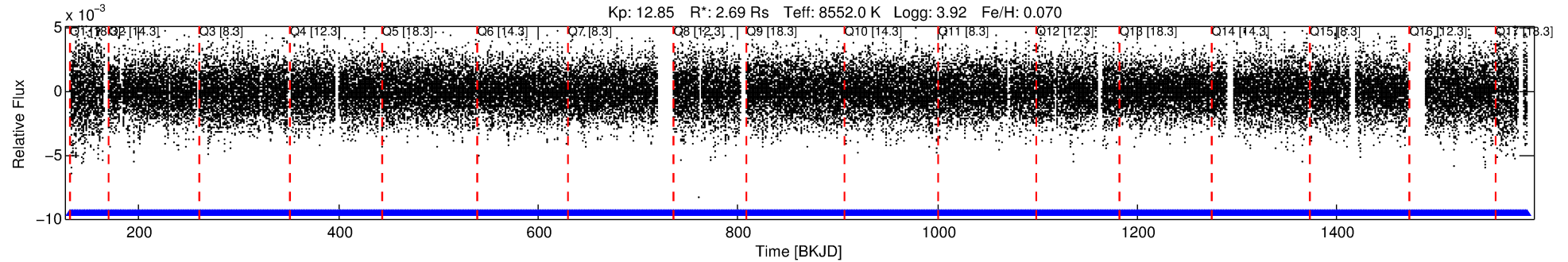
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009895269-01

No Significant Match Found

DV One-Page Summary

KIC: 9895269 Candidate: 1 of 3 Period: 0.552 d



DV Fit Results:

Period = 0.55226 [0.00004] d
Epoch = 131.5263 [0.0068] BKJD
Rp/R* = 0.0061 [0.0061]
a/R* = 1.48 [4.77]
b = 0.46 [10.19]
Seff = 118100.72 [60407.23]
Teq = 4727 [604] K
Rp = 1.79 [1.90] Re
a = 0.0171 [0.0054] AU
Ag = 15.53 [31.91] [0.46σ]
Teffp = 14508 [7283] K [1.34σ]

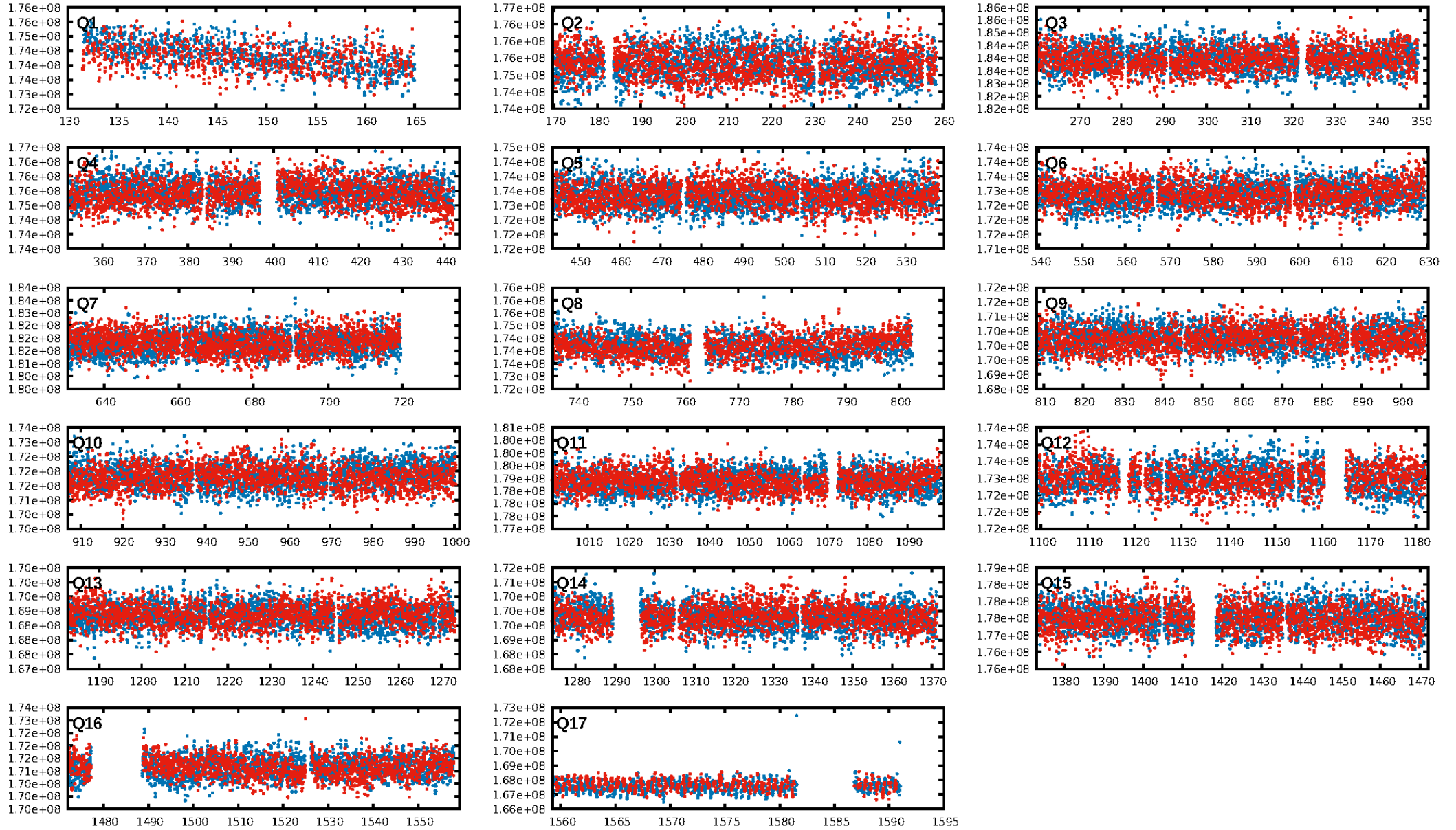
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2322/2322]
GhostDiagnostic-chr: 12.73
Centroid-sig: 16.2%
Centroid-so: 0.085 arcsec [0.23σ]
OotOffset-rm: 0.088 arcsec [0.67σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.224 arcsec [1.40σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 0.00 [0/17]

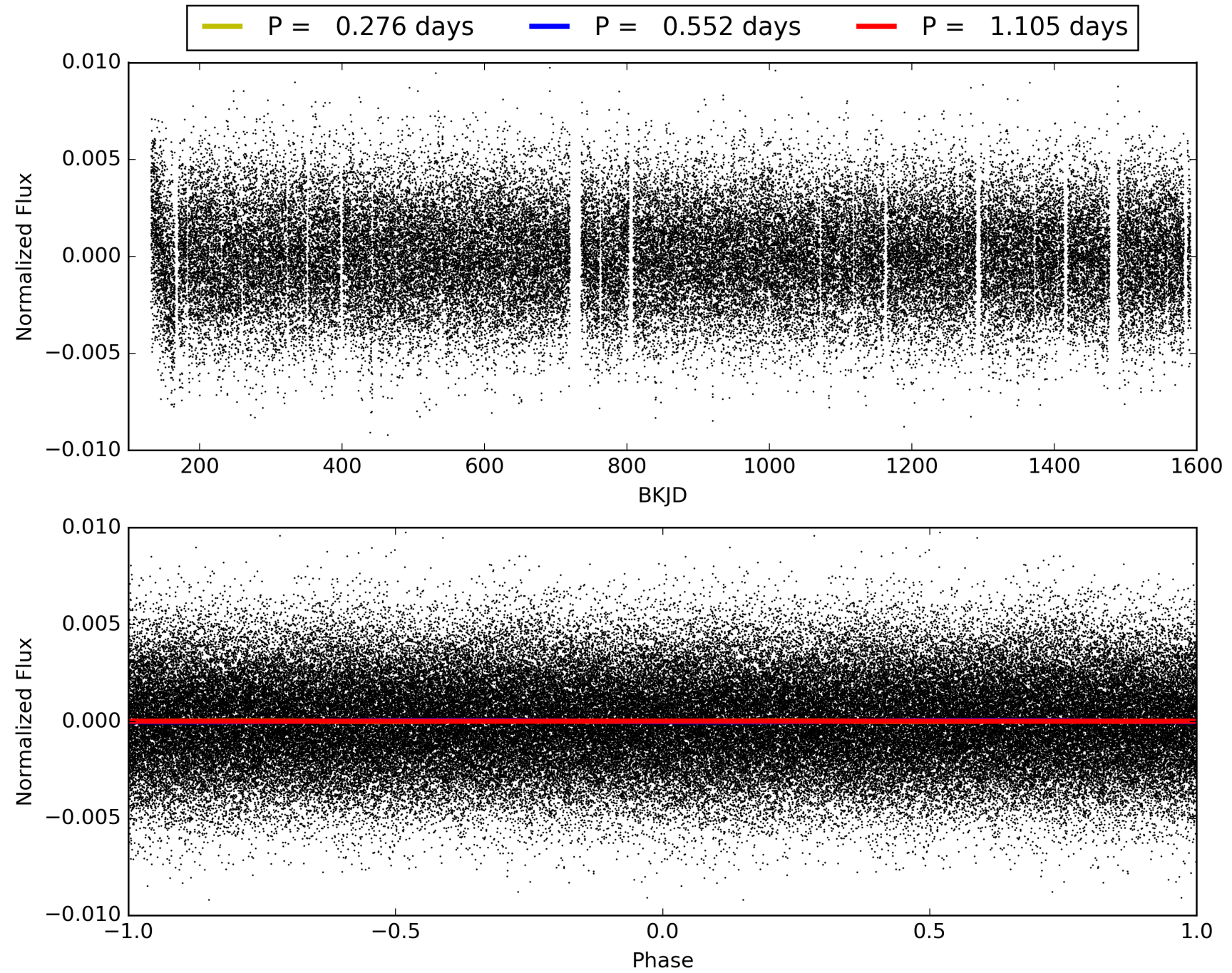
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 01:55:33 Z

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

TCE 009895269-01, PDC Light Curves

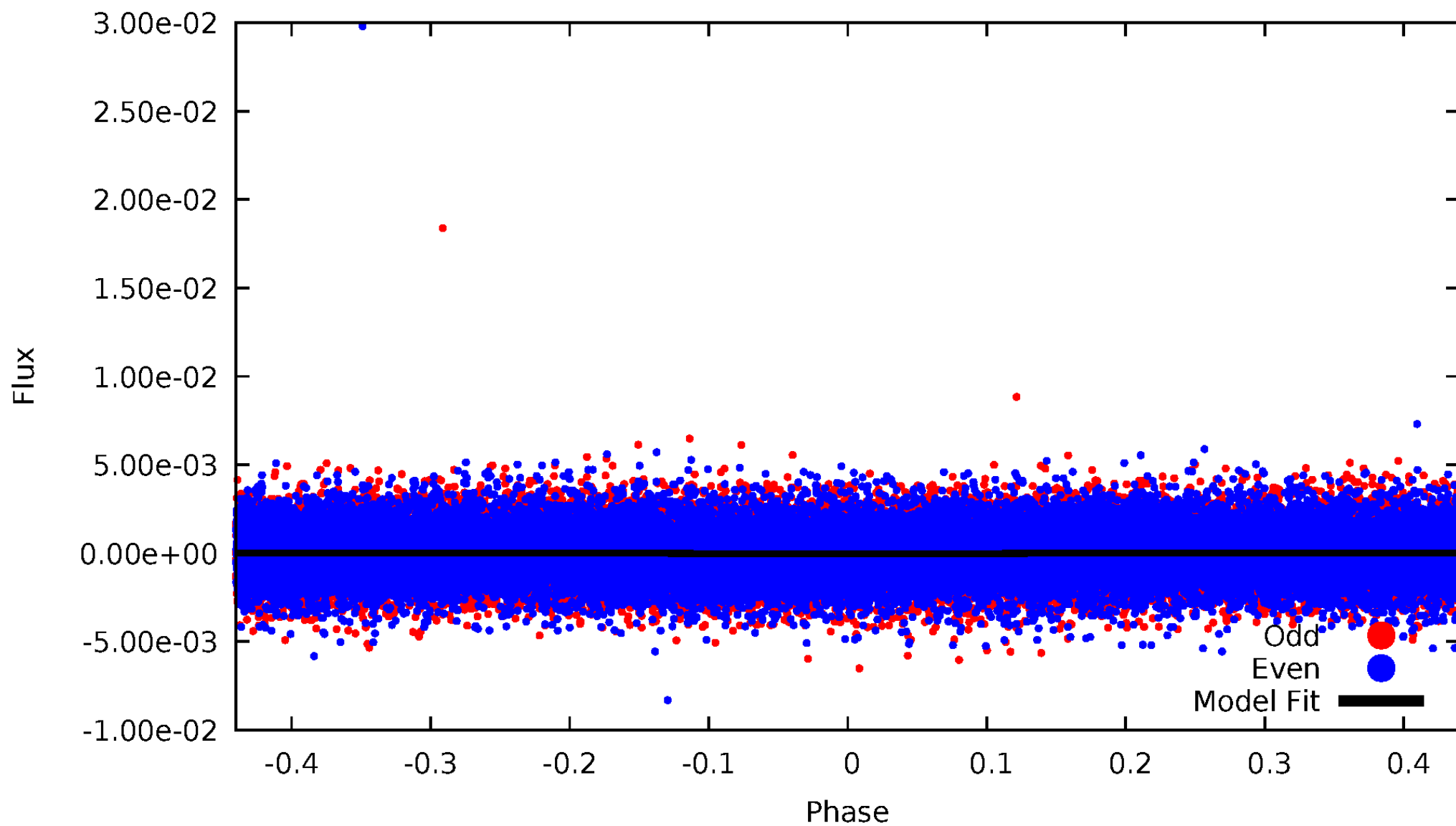


TCE 009895269-01



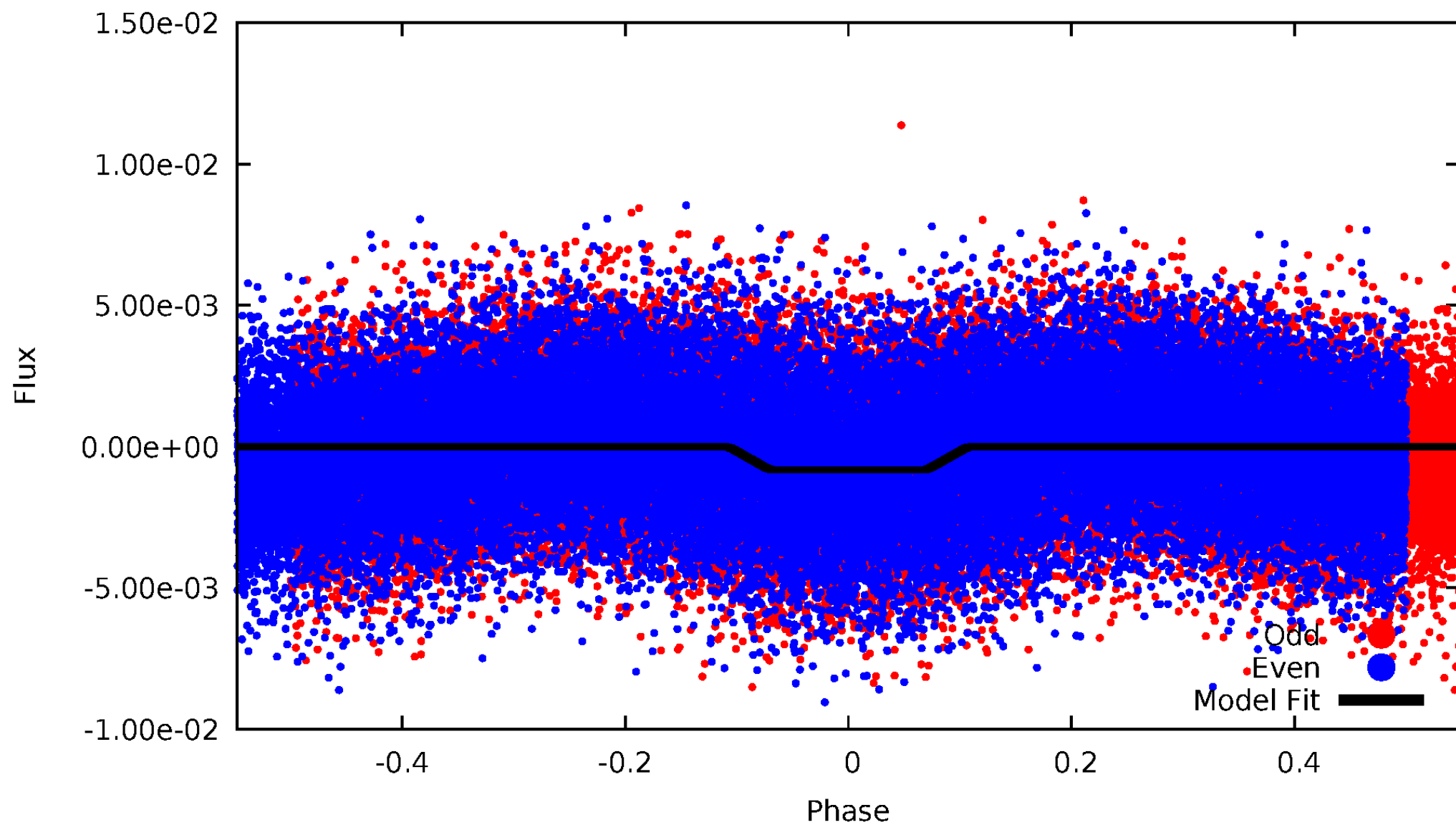
DV Odd/Even

TCE 009895269-01



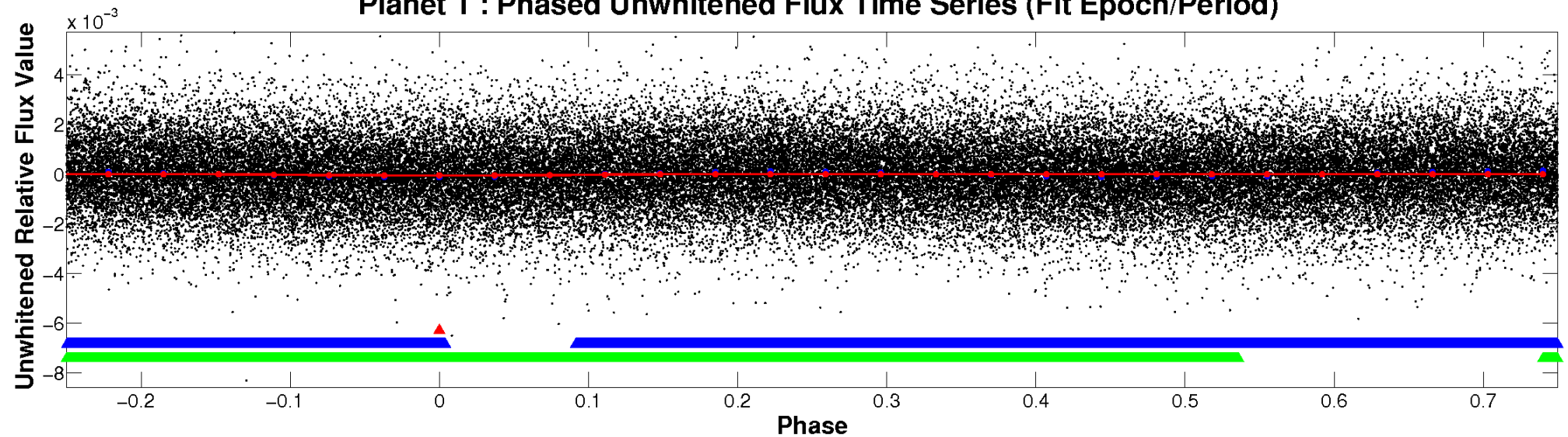
ALT Odd/Even

TCE 009895269-01

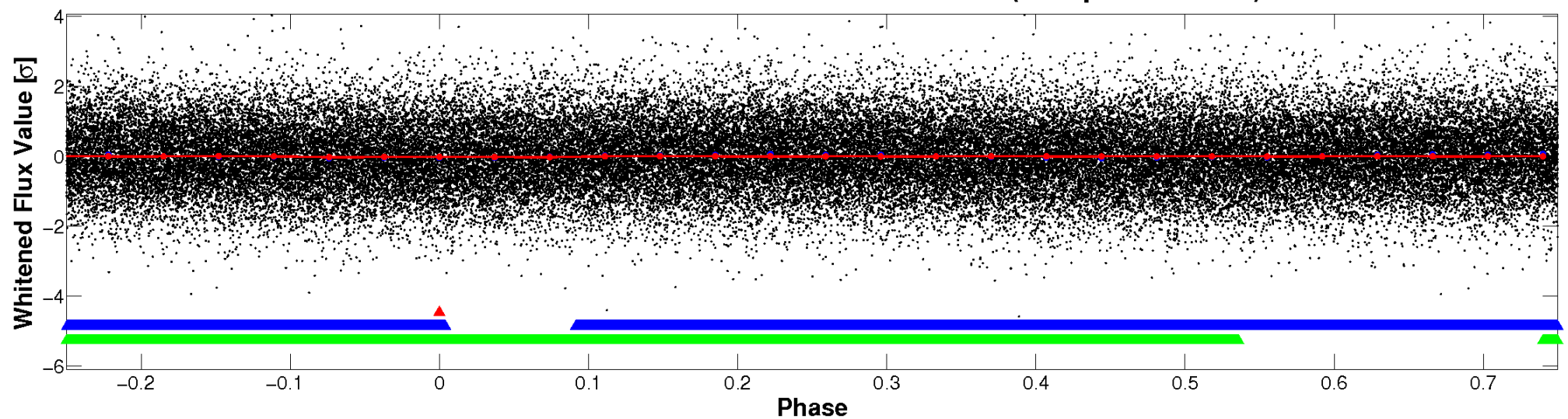


Non-Whitened Vs. Whitened Light Curve

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

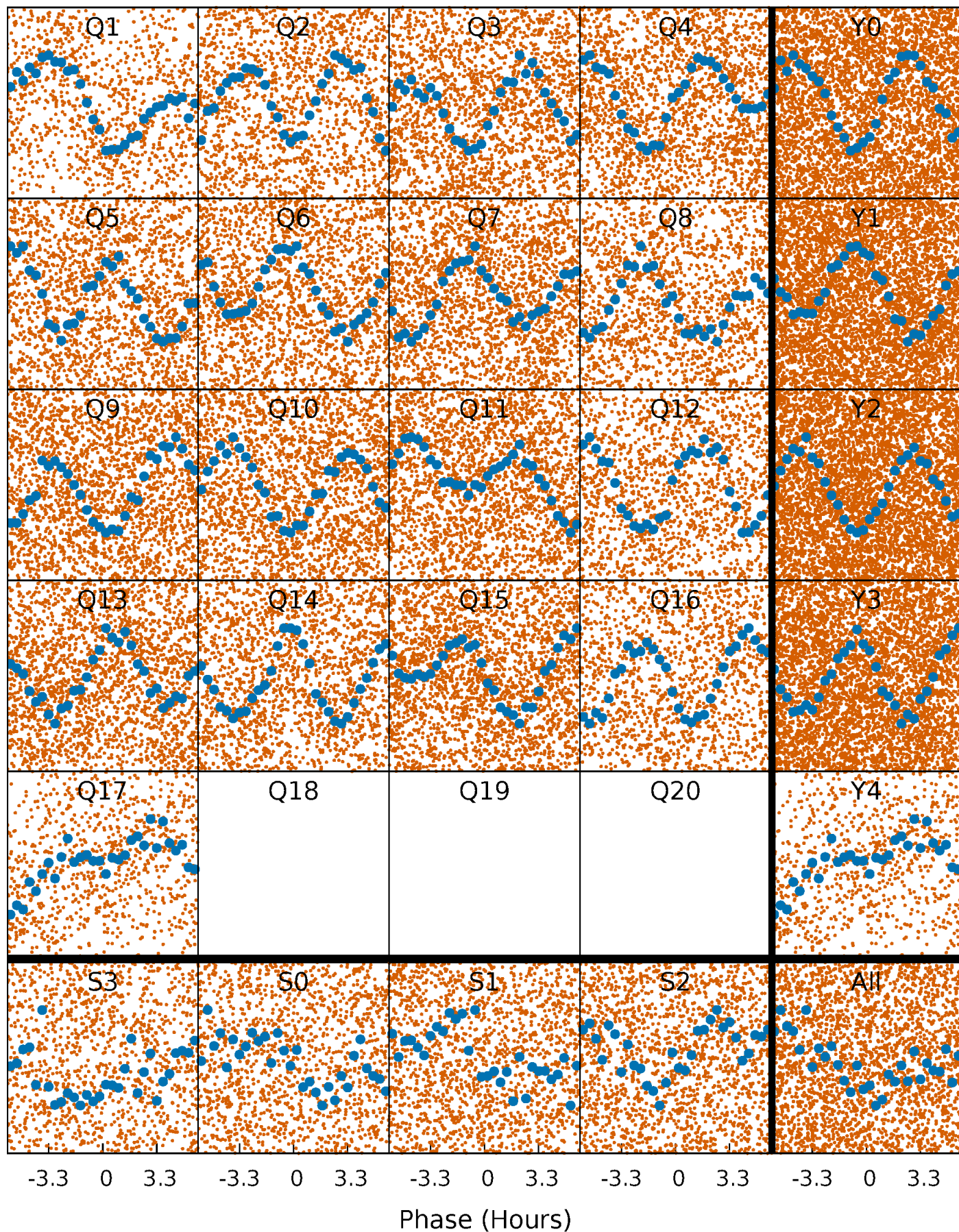


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



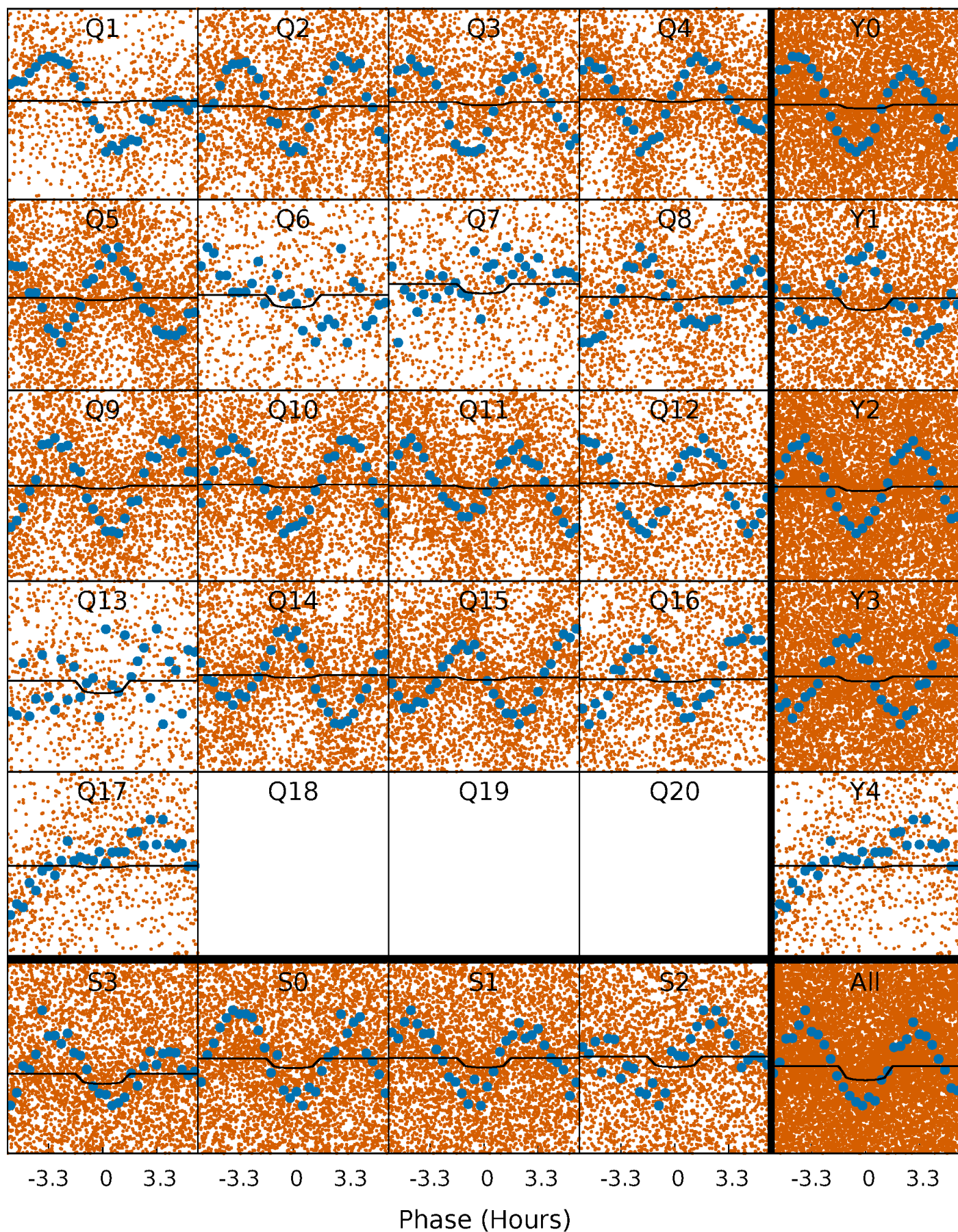
PDC Quarter-Phased Transit Curves

TCE 009895269-01 P= 0.552257 Days $T_0=131.526258$ (BKJD)



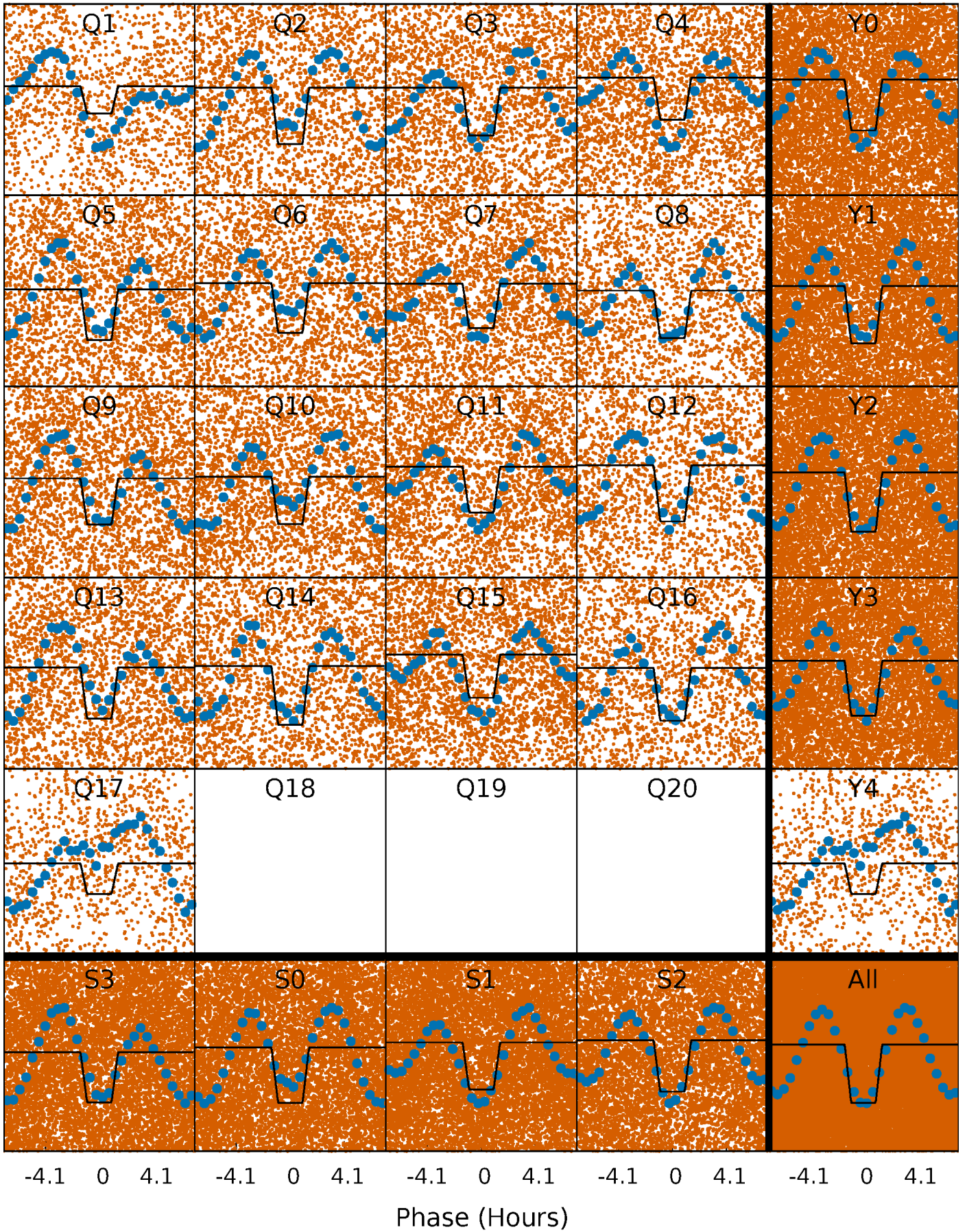
DV Quarter-Phased Transit Curves

TCE 009895269-01 P= 0.552257 Days $T_0=131.526258$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

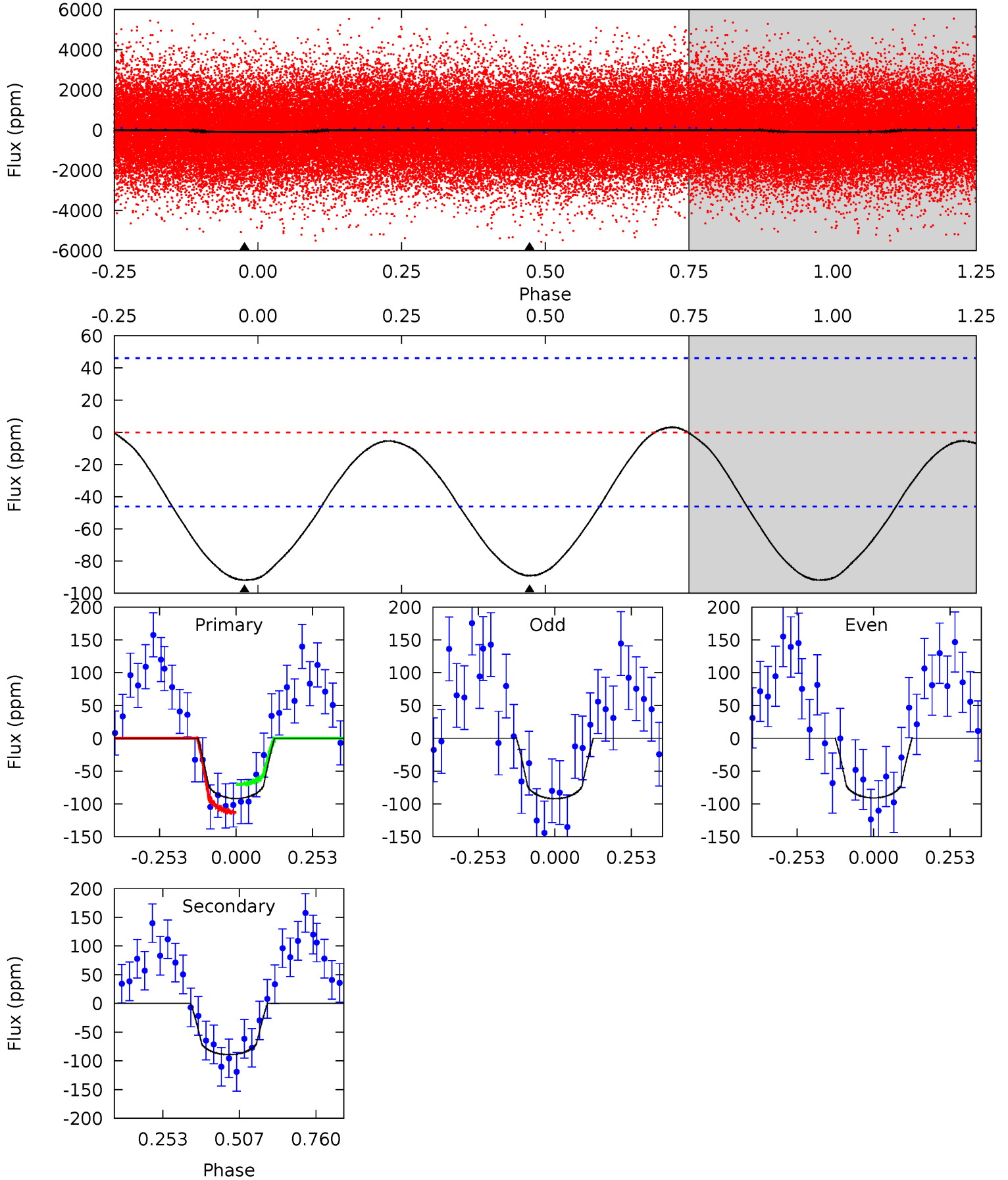
TCE 009895269-01 P= 0.552042 Days $T_0=131.558244$ (BKJD)



DV Model-Shift Uniqueness Test

009895269-01, $P = 0.552257$ Days, $E = 130.974001$ Days

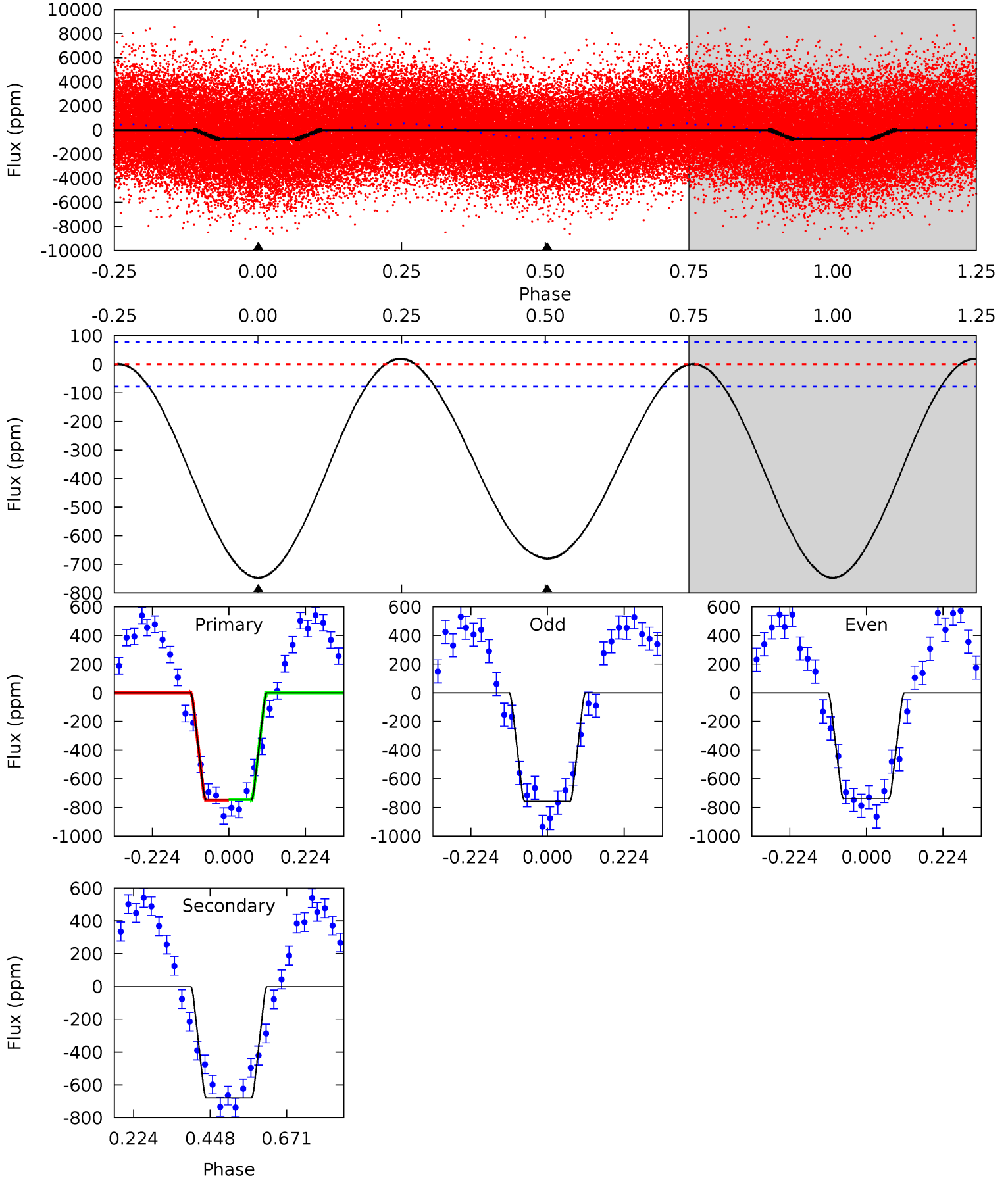
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.69	8.43	0	0	4.37	1.14	0.39	8.69	8.69	8.43	8.43	0.06	1.20	0.03	2.00



Alt Model-Shift Uniqueness Test

009895269-01, P = 0.552042 Days, E = 131.006202 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.8	38.0	0	0	4.39	1.22	0.62	41.8	41.8	38.0	38.0	0.57	1.03	0.02	0.15



Stellar Parameters For KIC 009895269

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8552^{+235}_{-404}	$3.921^{+0.266}_{-0.143}$	$0.070^{+0.250}_{-0.550}$	$2.691^{+0.893}_{-0.982}$	$2.201^{+0.326}_{-0.605}$	$0.159^{+0.291}_{-0.067}$
	+3%/-5%	+7%/-4%	+357%/-786%	+33%/-36%	+15%/-27%	+183%/-42%
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 009895269-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-89 ± 11	$2.08^{+1.61}_{-1.36}$	6460^{+540}_{-573}	9313^{+18304}_{-2854}	$3.113^{+23.315}_{-2.082}$
Alt.	-680 ± 18	$7.94^{+2.33}_{-2.05}$	6447^{+512}_{-596}	7541^{+1457}_{-1030}	$1.727^{+1.319}_{-0.657}$

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 $A_{obs} \gg 1.0$

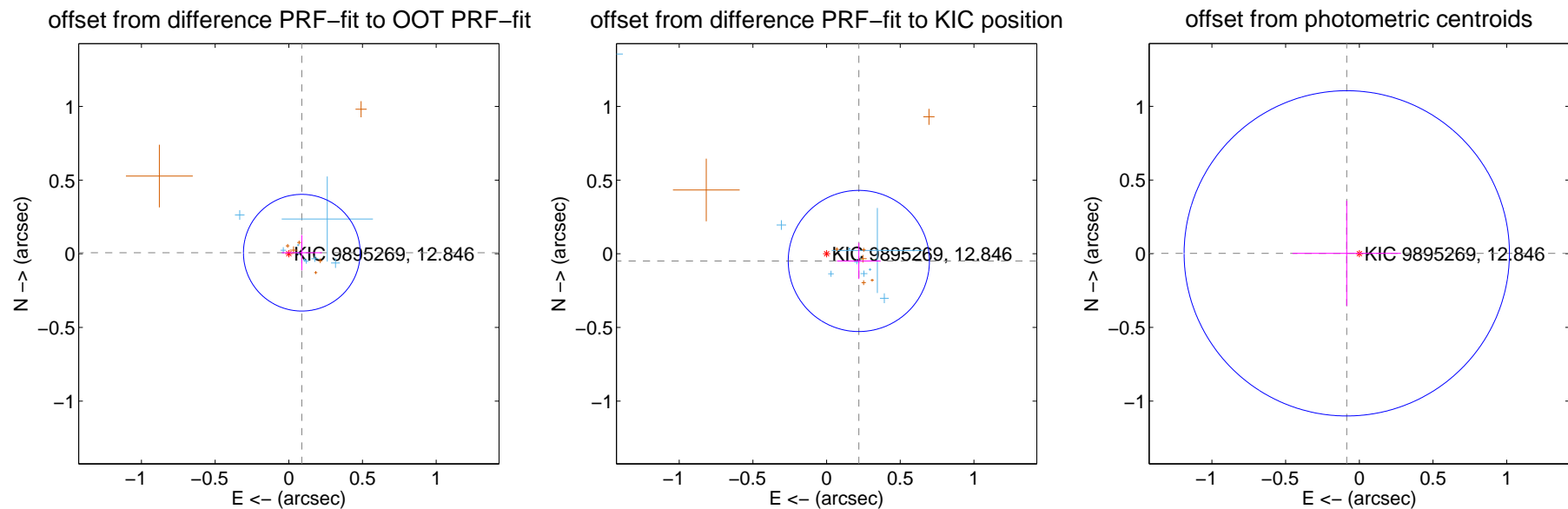
DV Centroid Data

Supplemental centroid analysis for 009895269-01. Kepler magnitude: 12.85. Transit SNR 2.64

There are 10 quarters with good PRF difference image offsets

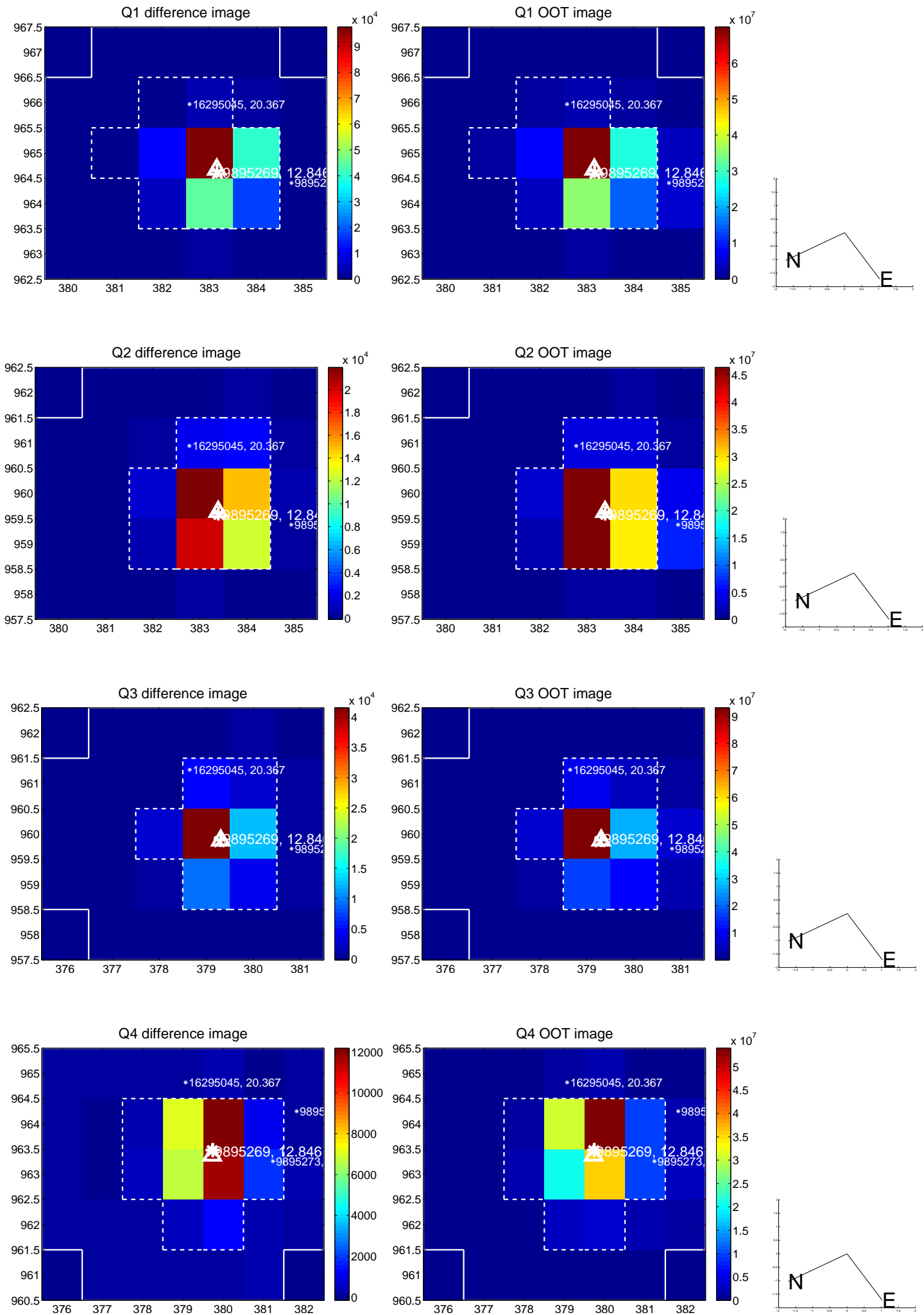
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.088 ± 0.132	0.67	-0.088 ± 0.137	0.007 ± 0.119
PRF-fit source offset from KIC position	0.224 ± 0.160	1.40	-0.219 ± 0.148	-0.049 ± 0.123
photometric centroid source offset	0.09 ± 0.37	0.23	0.09 ± 0.37	0.00 ± 0.36

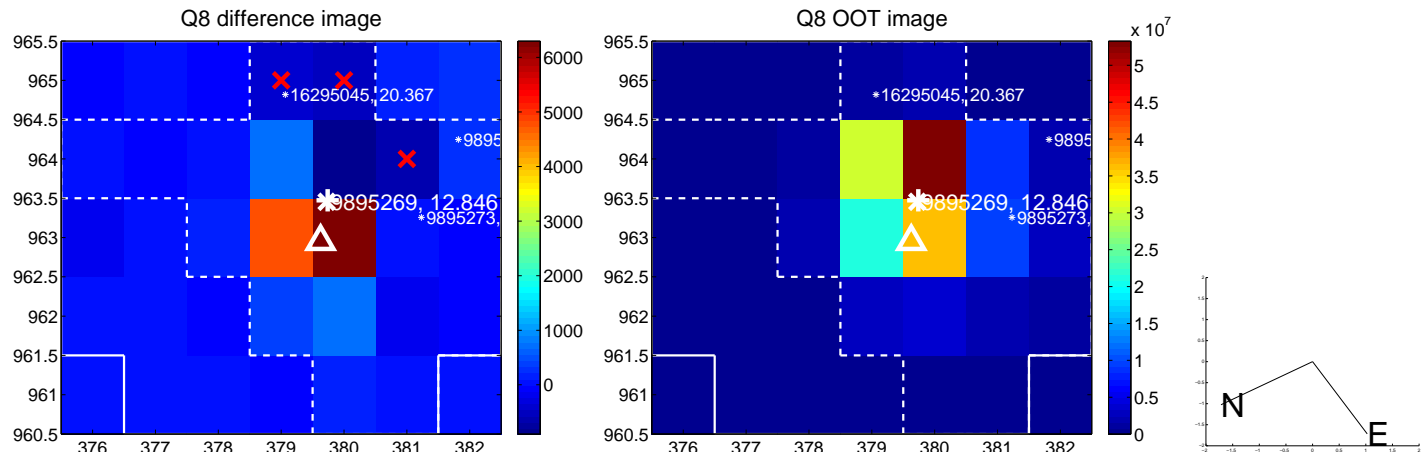
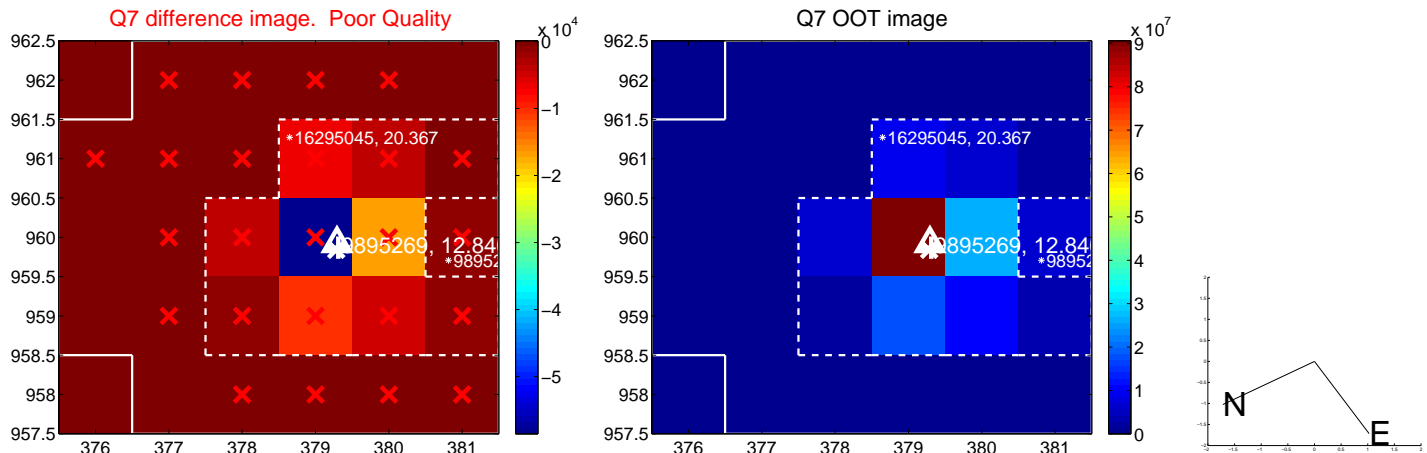
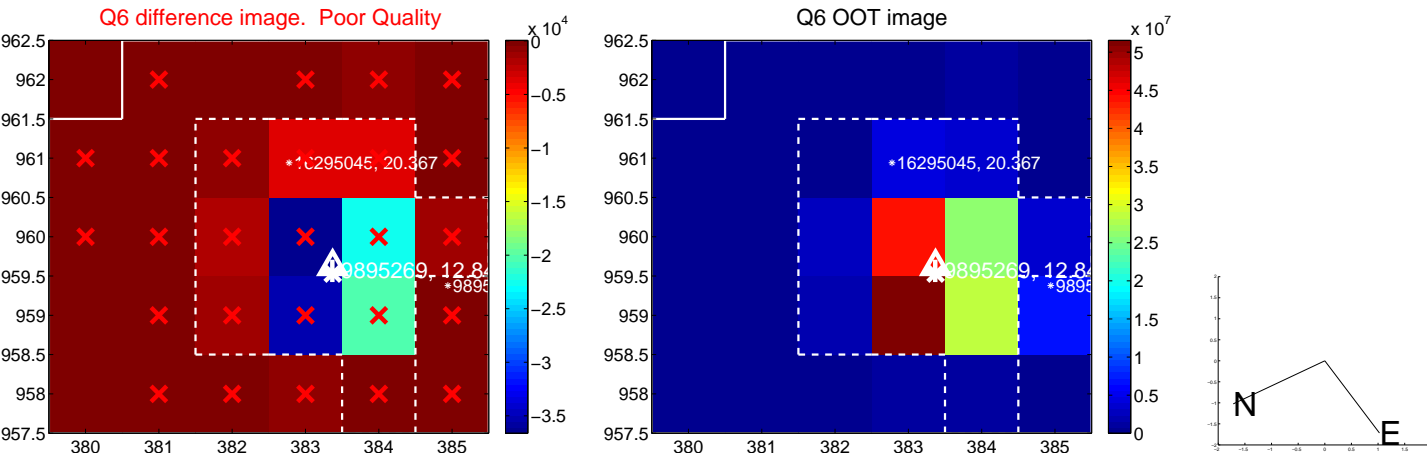
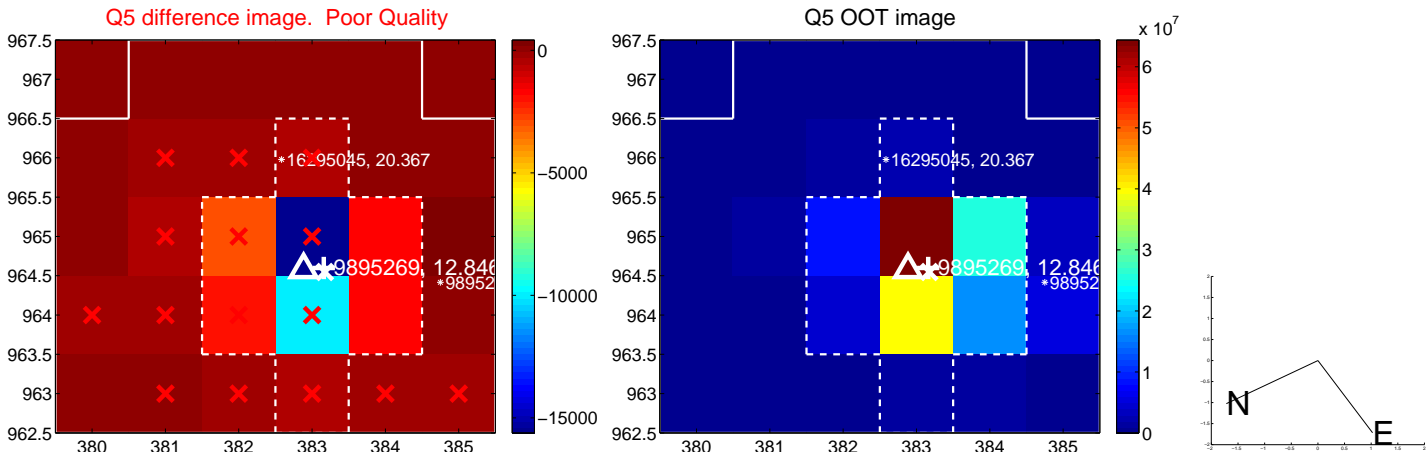


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

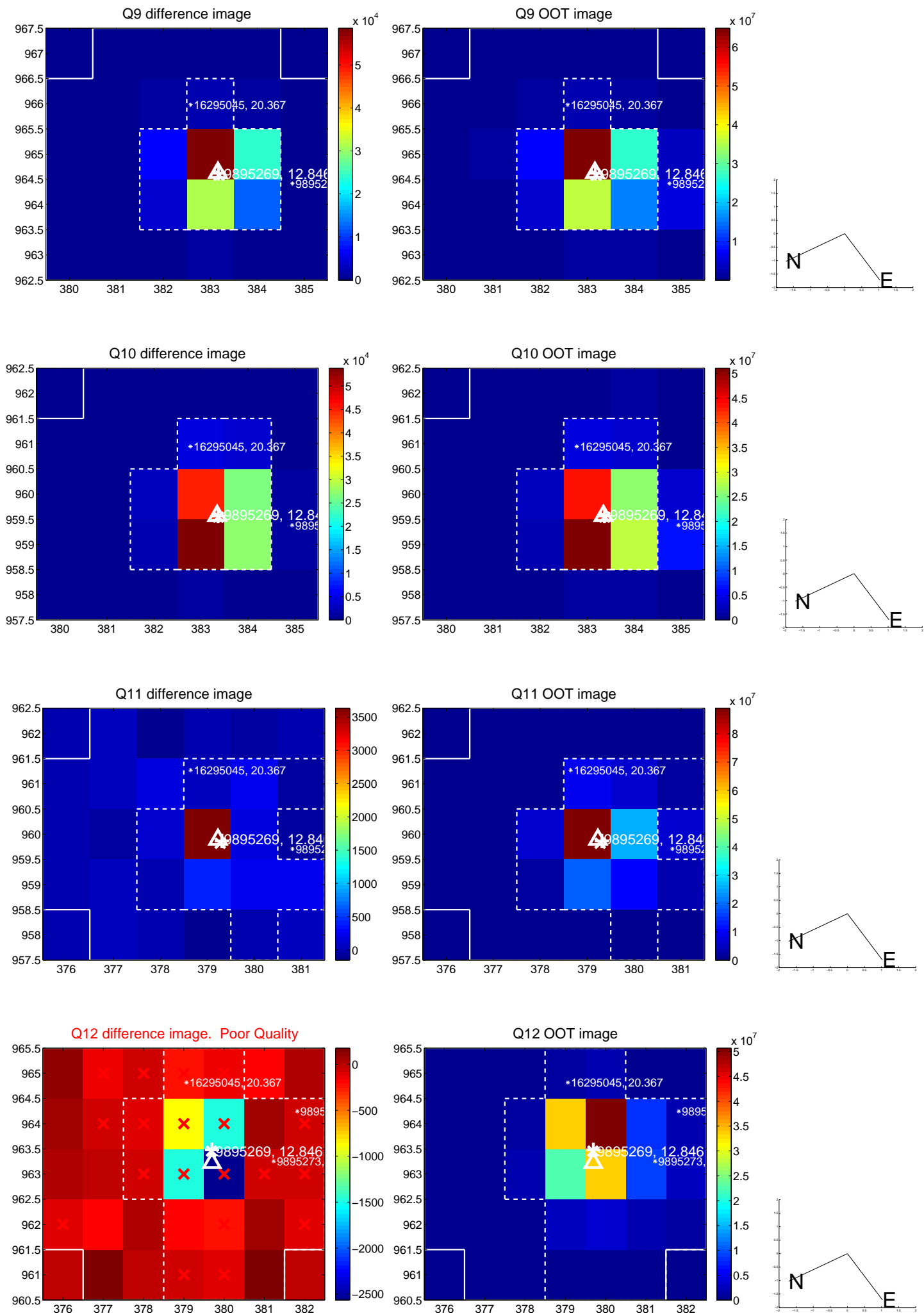
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



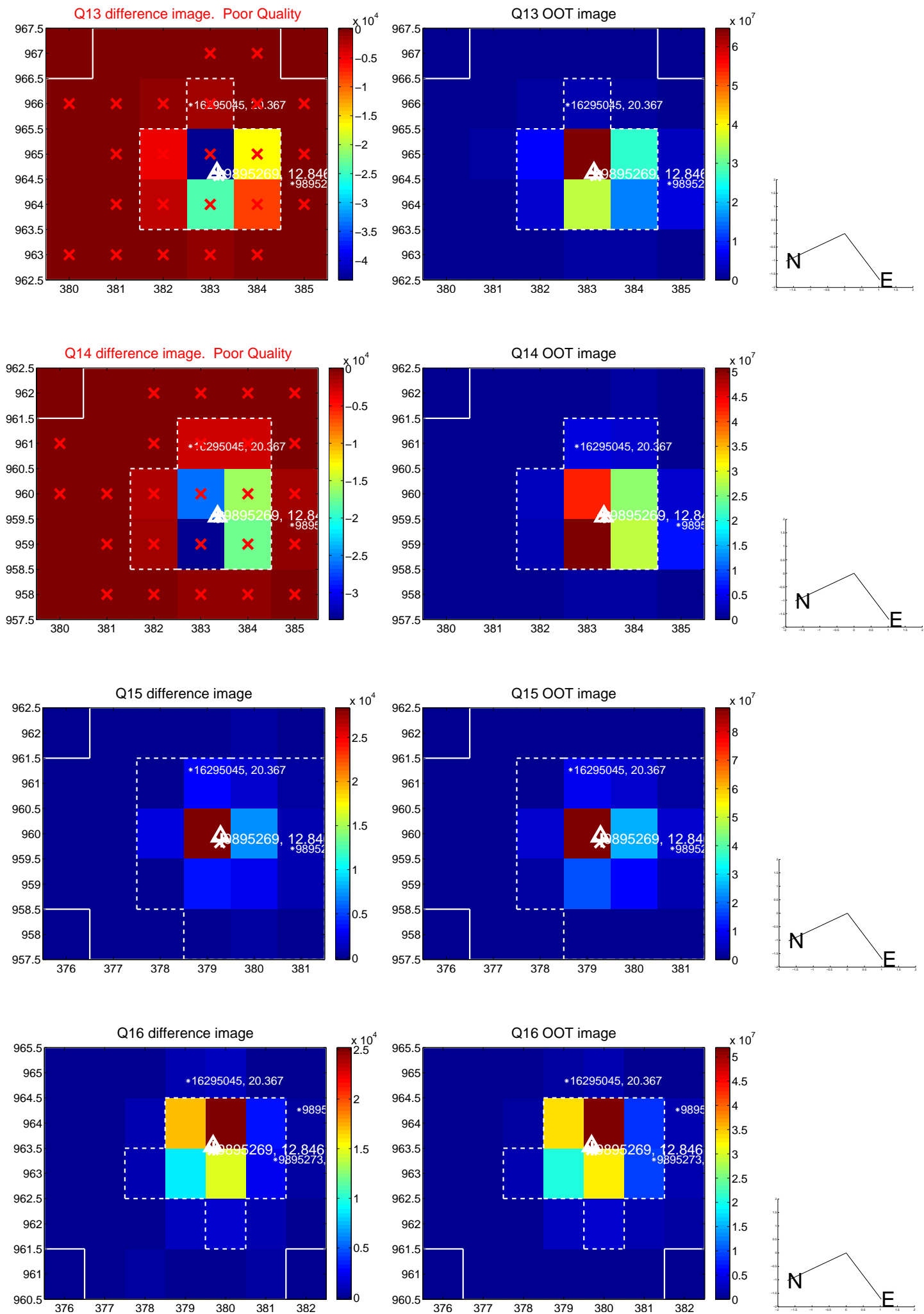
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



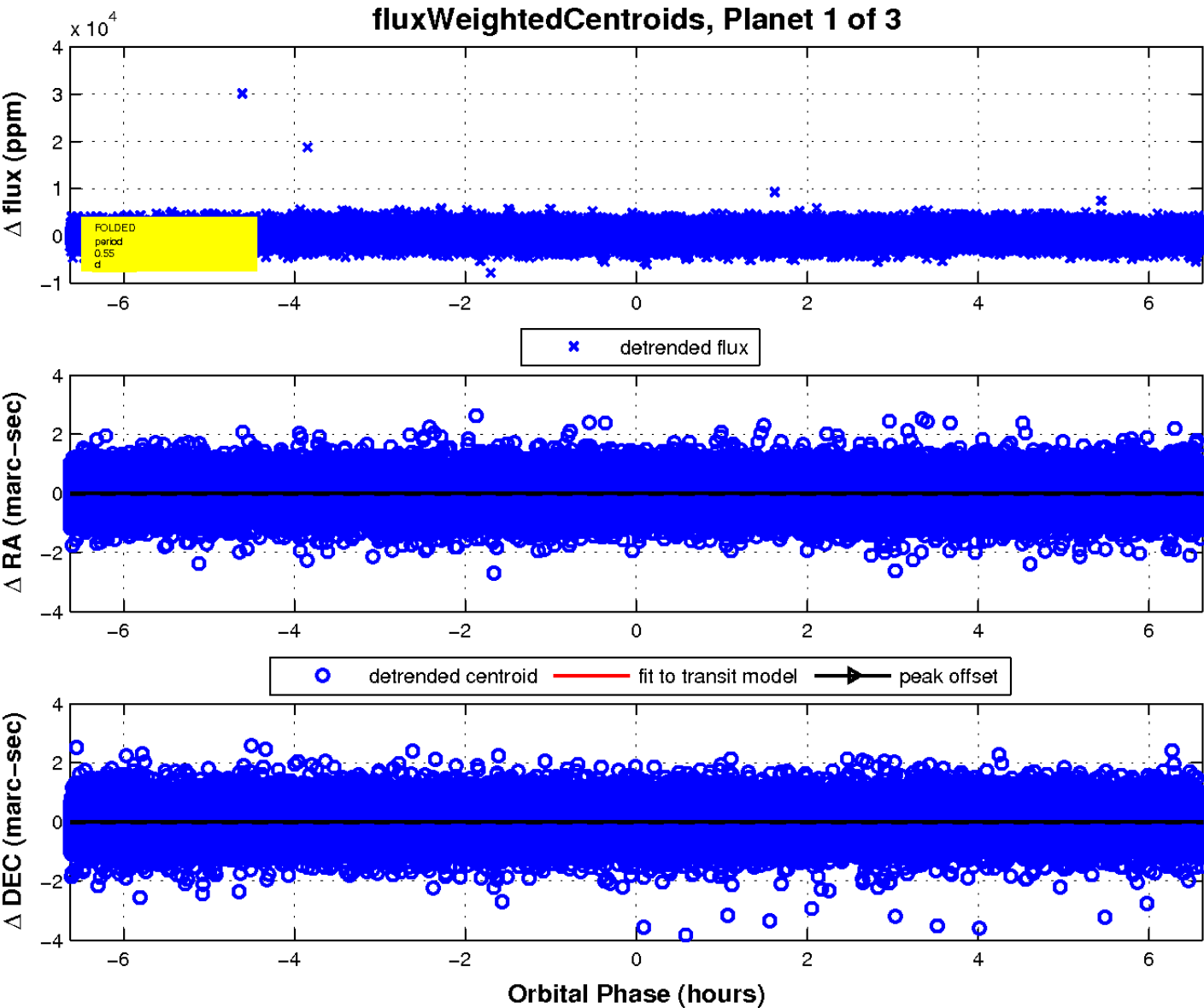
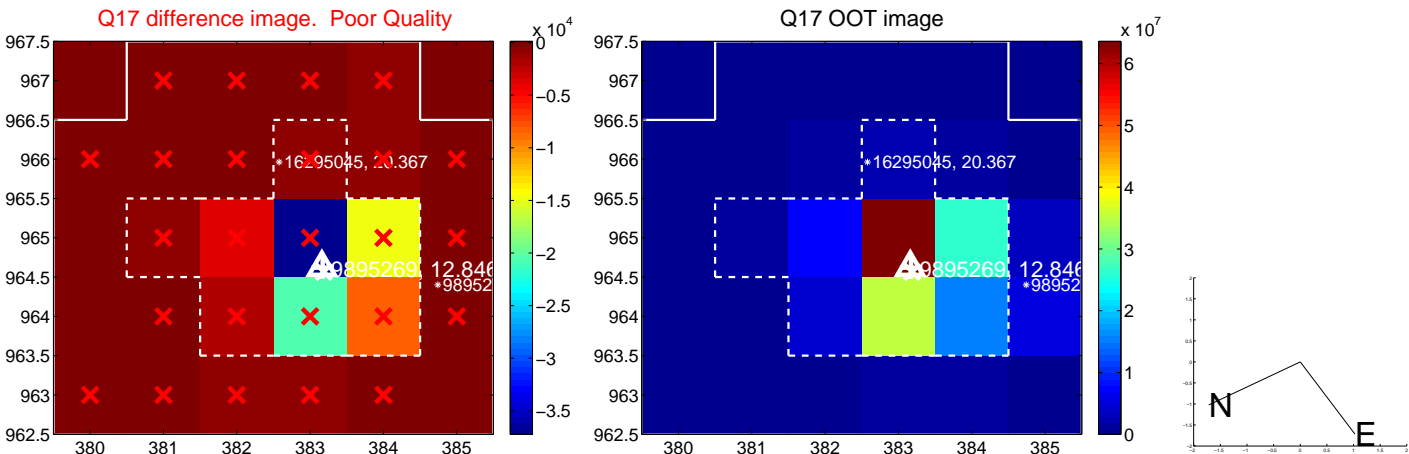
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

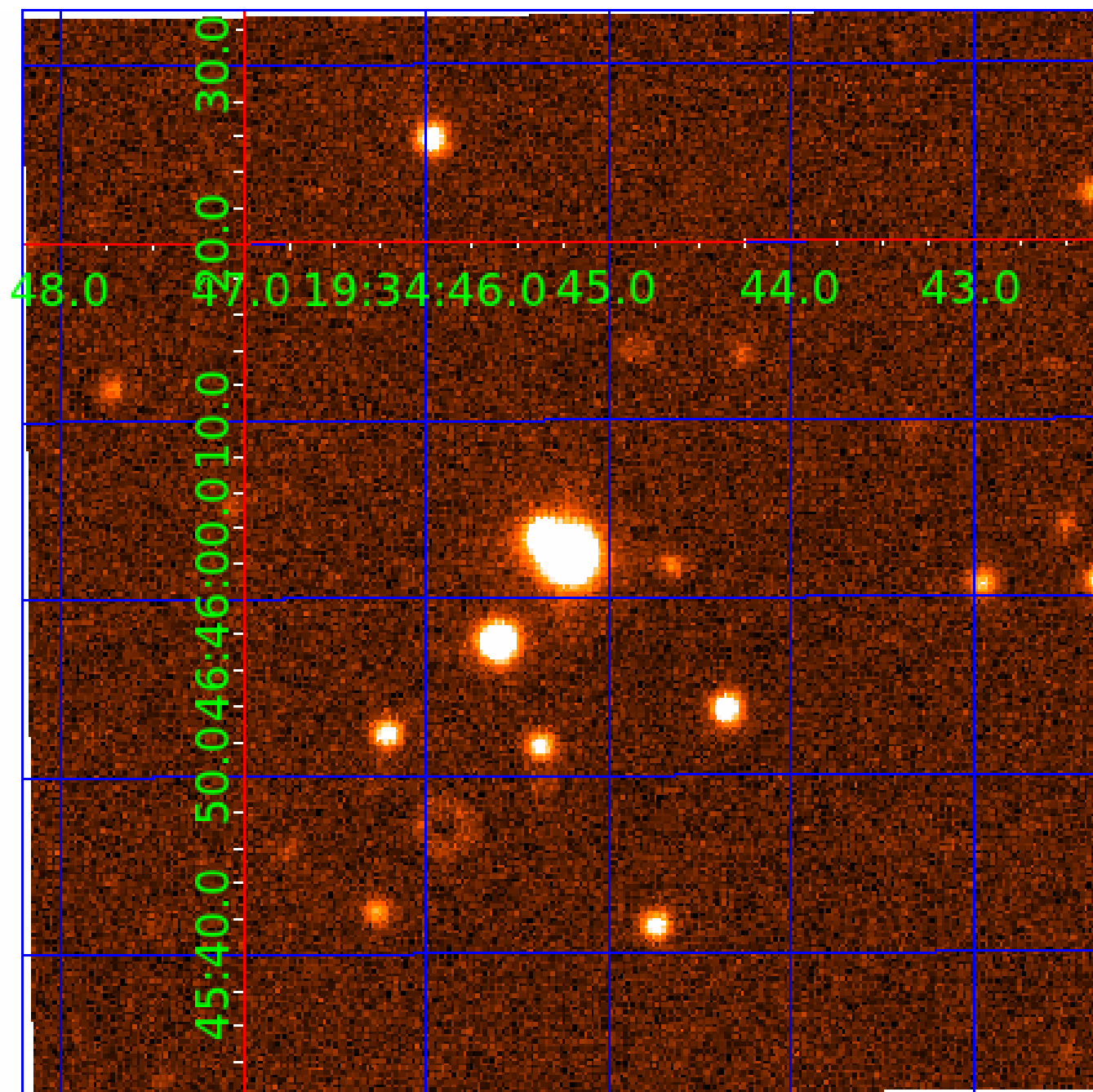


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009895269

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})
009895269-01	OBS	No	0.552257	131.526258	41.2	2.915	14.5	2.6	2.69	8552	1.79	118100.72
009895269-02	OBS	No	0.552066	131.528480	402.6	2.206	13.1	16.3	2.69	8552	5.53	118155.11
009895269-03	OBS	No	0.552091	131.822178	335.0	2.068	12.3	12.0	2.69	8552	5.04	118148.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009895269-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
009895269-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—SAME_NTL_PERIOD
009895269-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—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.

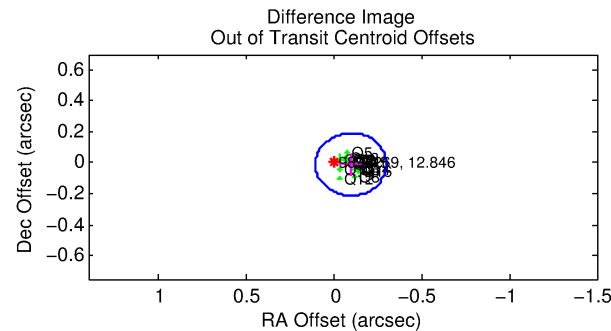
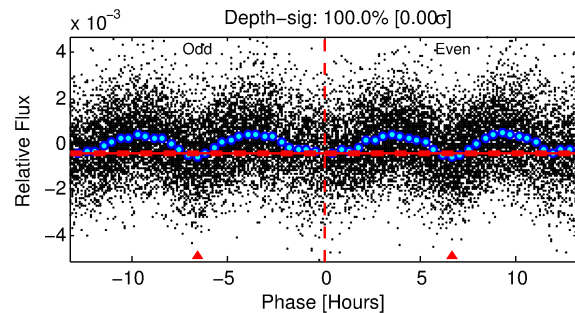
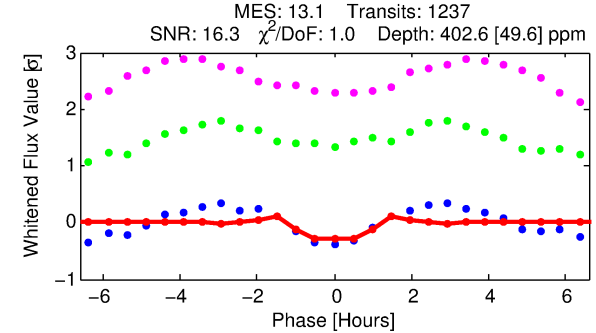
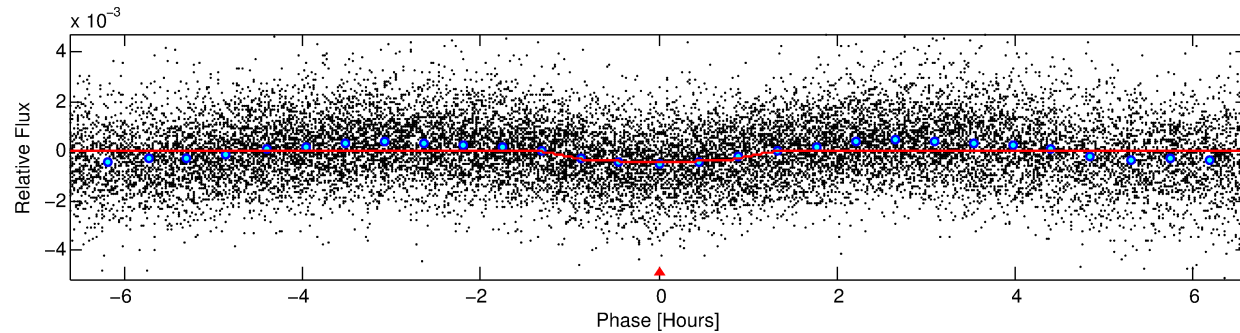
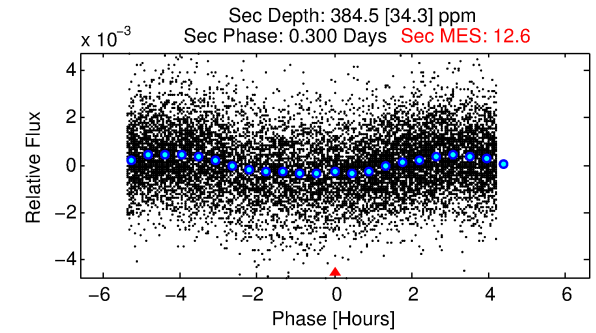
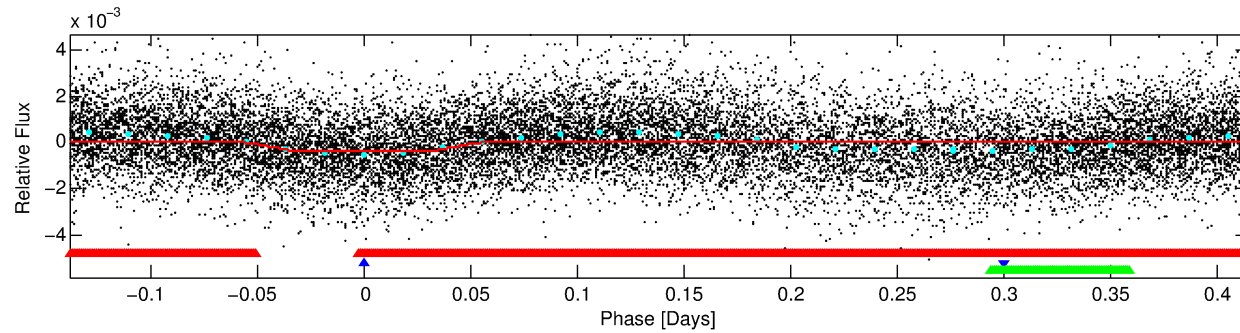
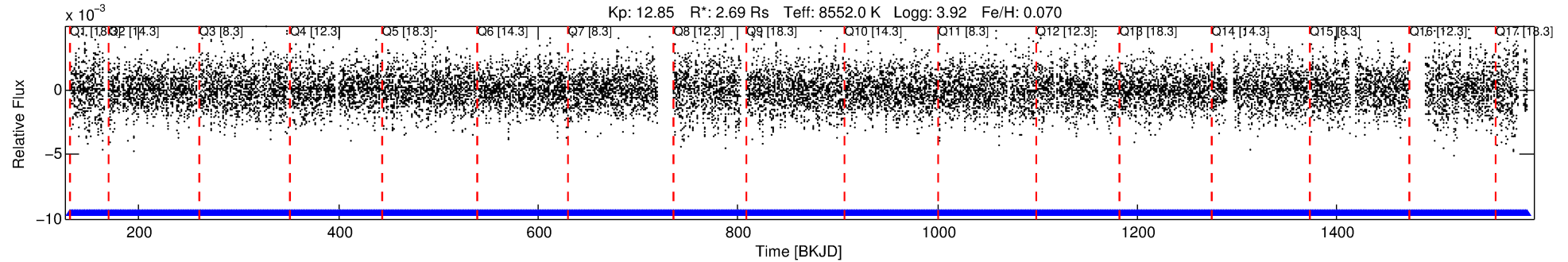
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009895269-02

No Significant Match Found

DV One-Page Summary

KIC: 9895269 Candidate: 2 of 3 Period: 0.552 d



DV Fit Results:

Period = 0.55207 [0.00001] d
Epoch = 131.5285 [0.0013] BKJD
Rp/R* = 0.0188 [0.0064]
a/R* = 1.97 [2.93]
b = 0.30 [6.14]
Seff = 118155.11 [60435.05]
Teff = 4728 [605] K
Rp = 5.53 [2.76] Re
a = 0.0171 [0.0054] AU
Ag = 2.03 [1.70] [0.61σ]
Teffp = 8730 [1555] K [2.40σ]

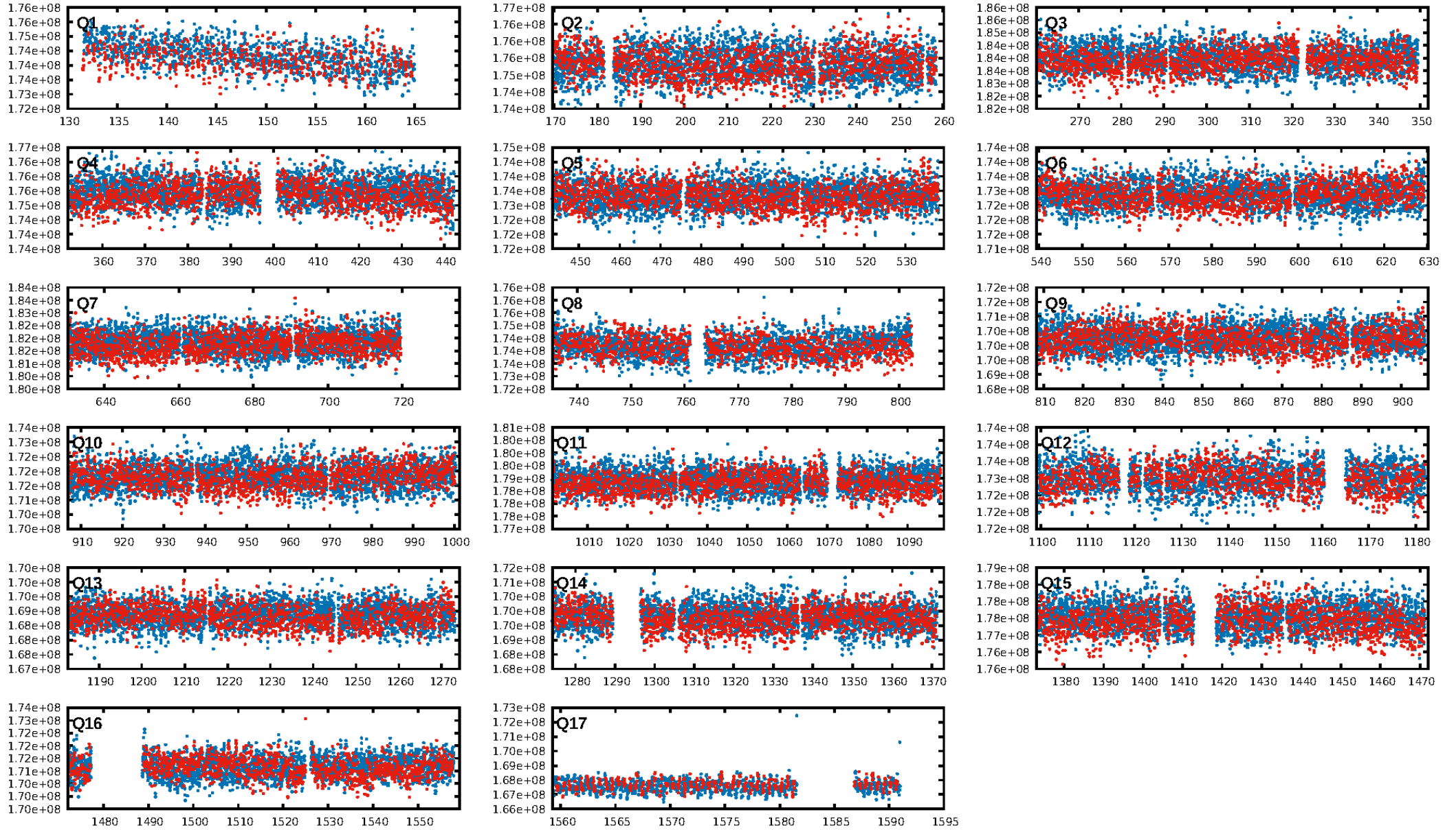
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1237/1237]
GhostDiagnostic-chr: 3.326
Centroid-sig: 25.9%
Centroid-so: 0.306 arcsec [7.54σ]
OotOffset-rm: 0.097 arcsec [1.44σ]
KicOffset-rm: 0.216 arcsec [3.13σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 0.00 [0/17]

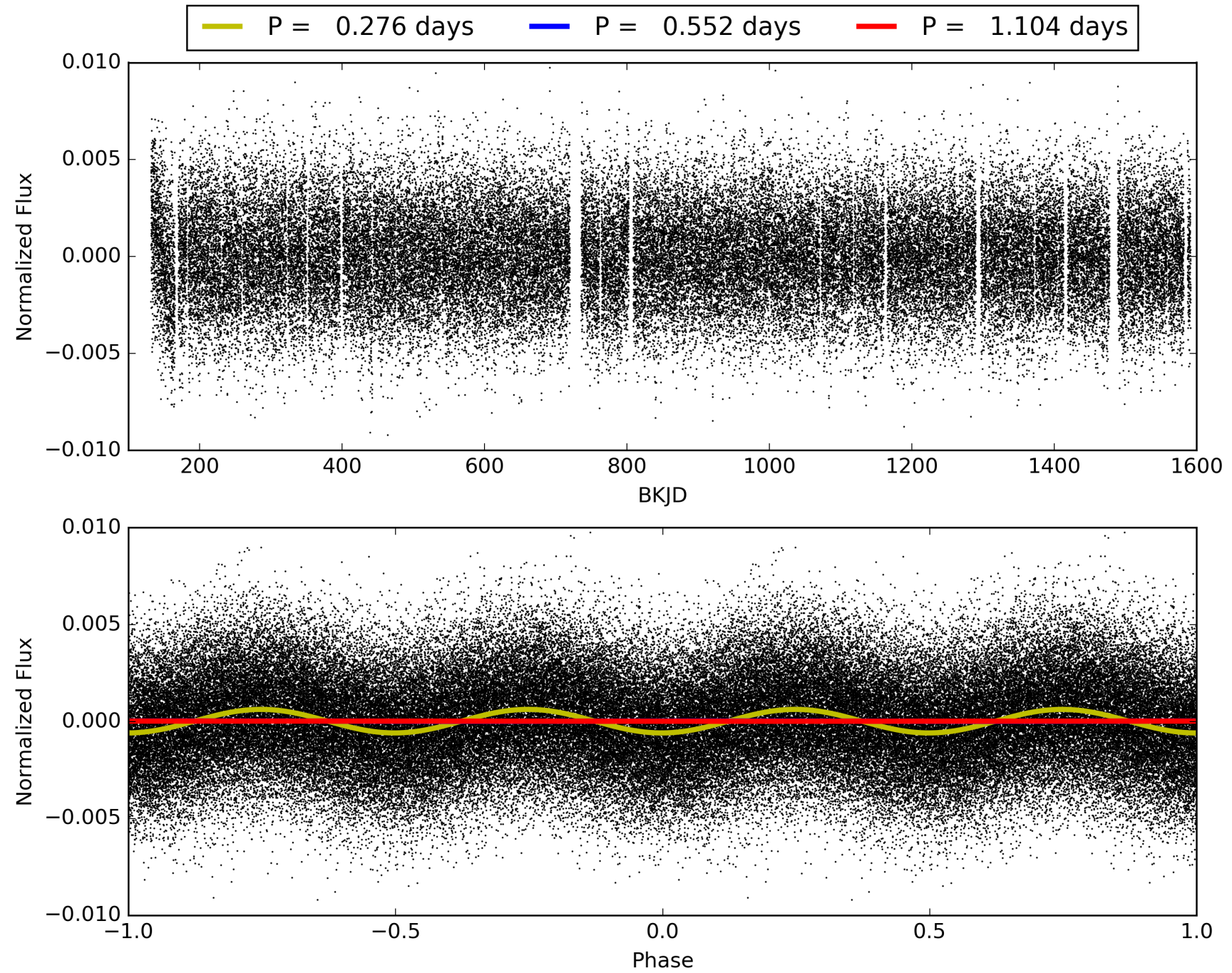
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 01:55:47 Z

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

TCE 009895269-02, PDC Light Curves

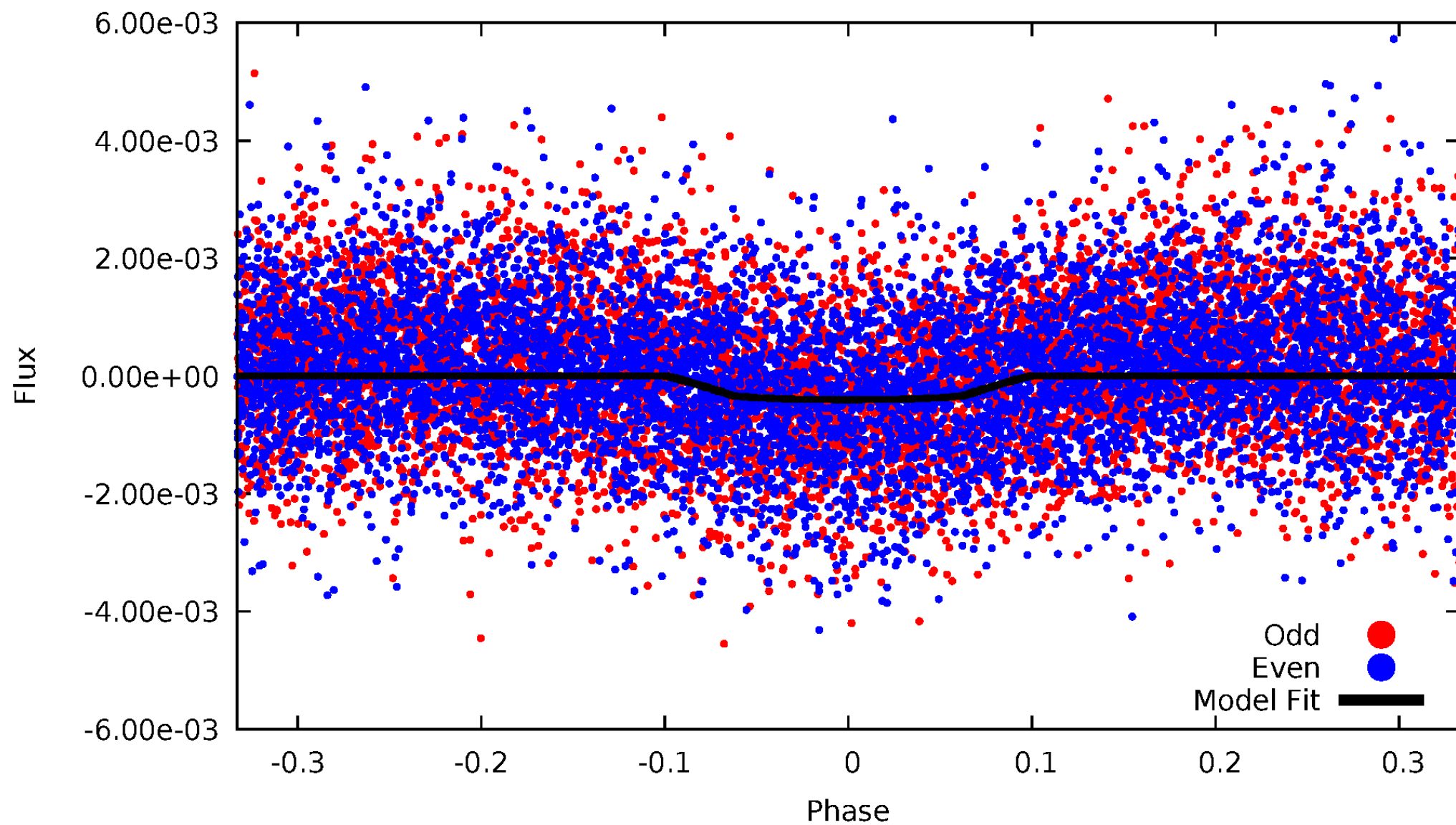


TCE 009895269-02



DV Odd/Even

TCE 009895269-02

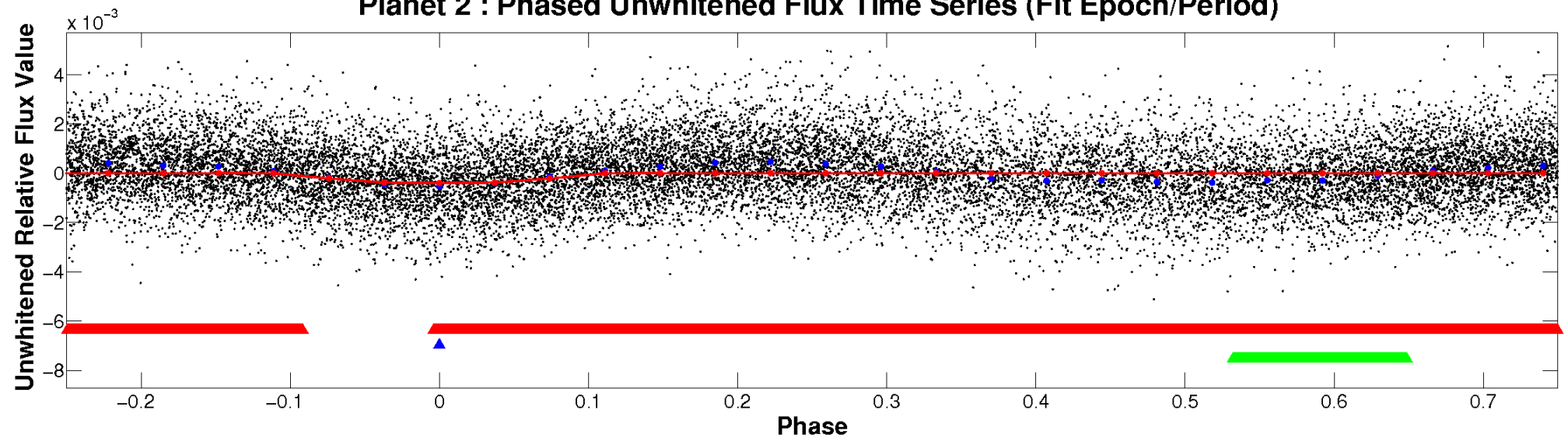


ALT Odd/Even

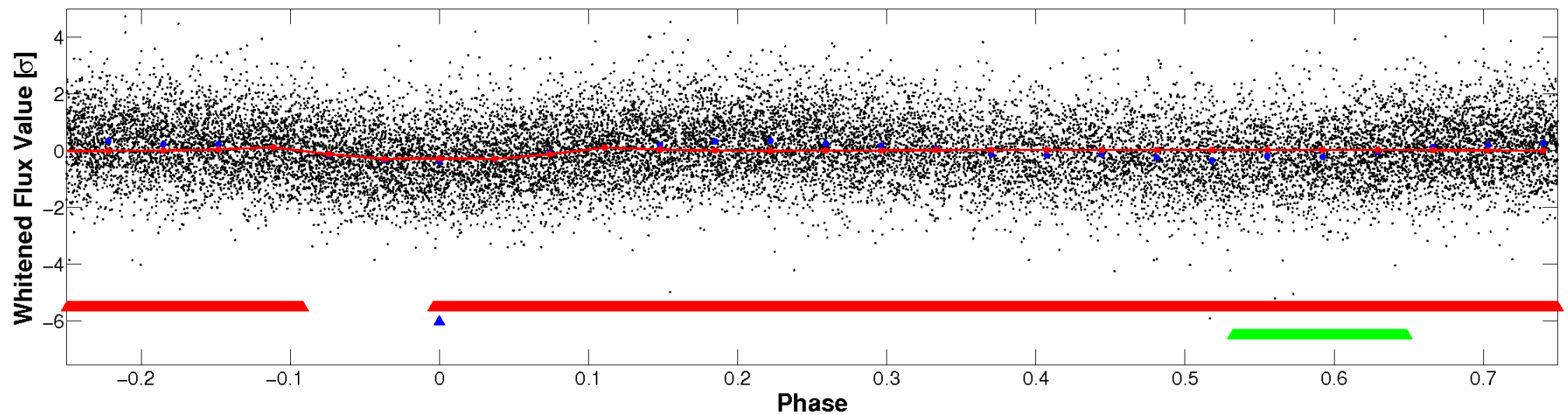
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

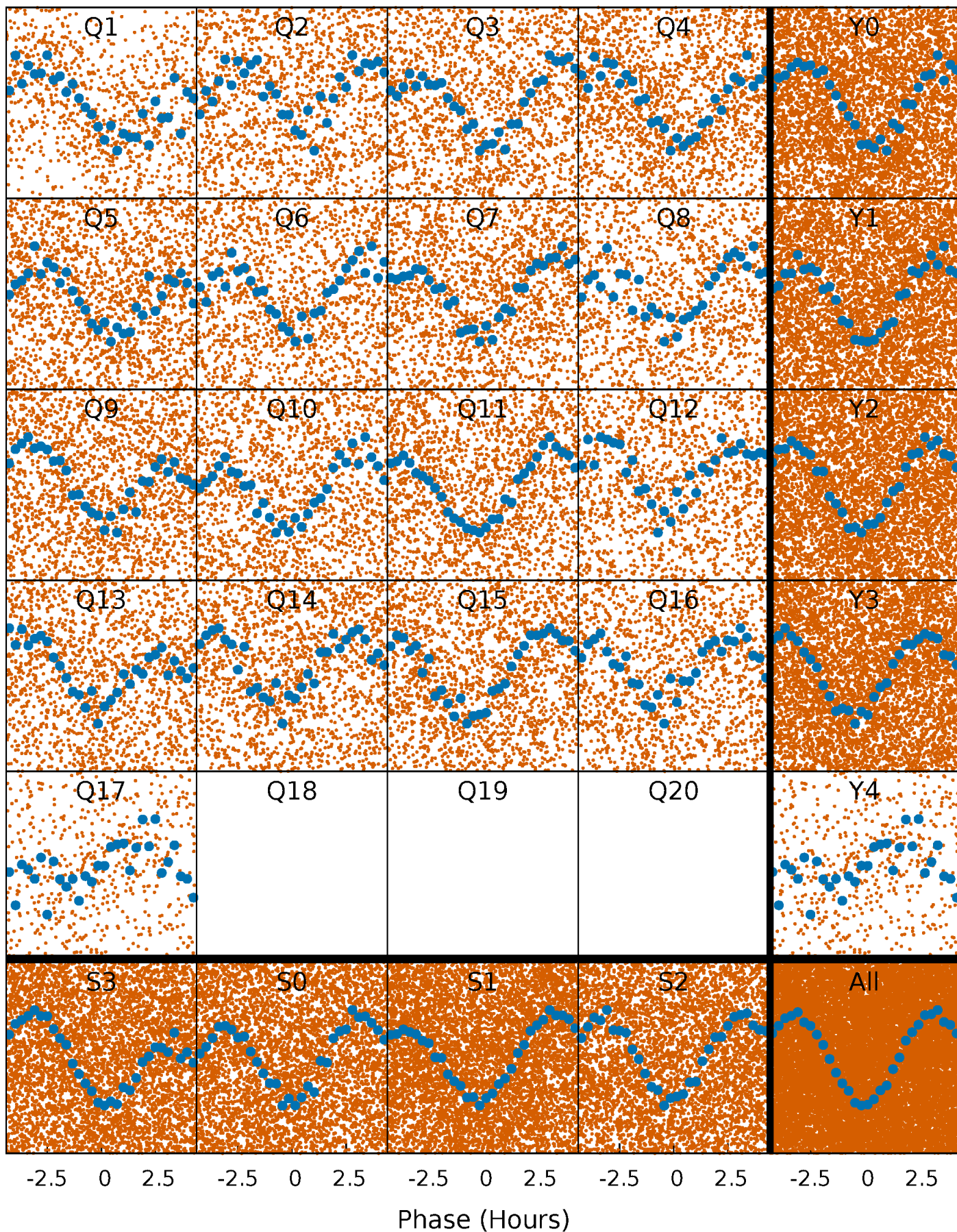


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



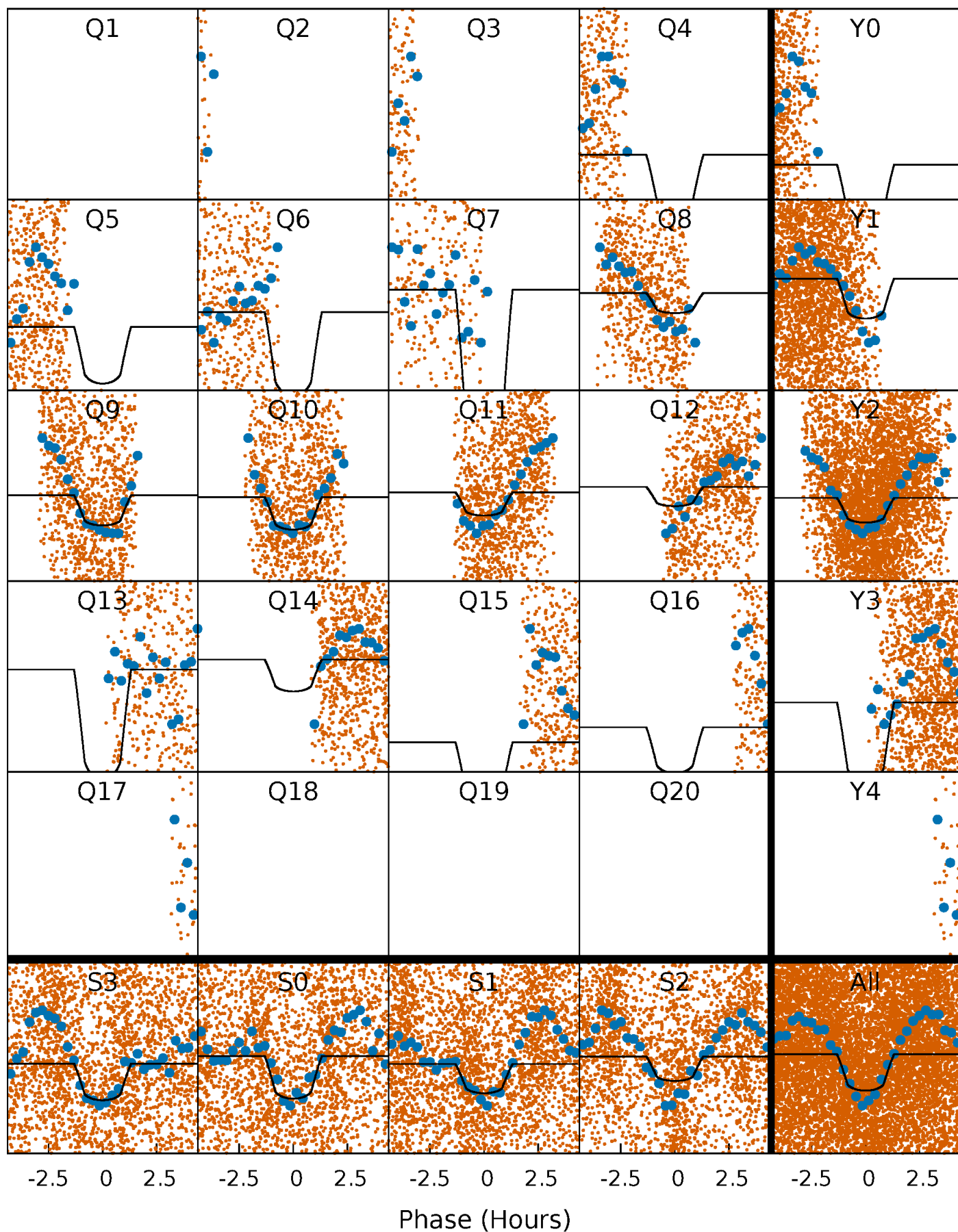
PDC Quarter-Phased Transit Curves

TCE 009895269-02 P= 0.552066 Days $T_0=131.528480$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 009895269-02 P= 0.552066 Days $T_0=131.528480$ (BKJD)

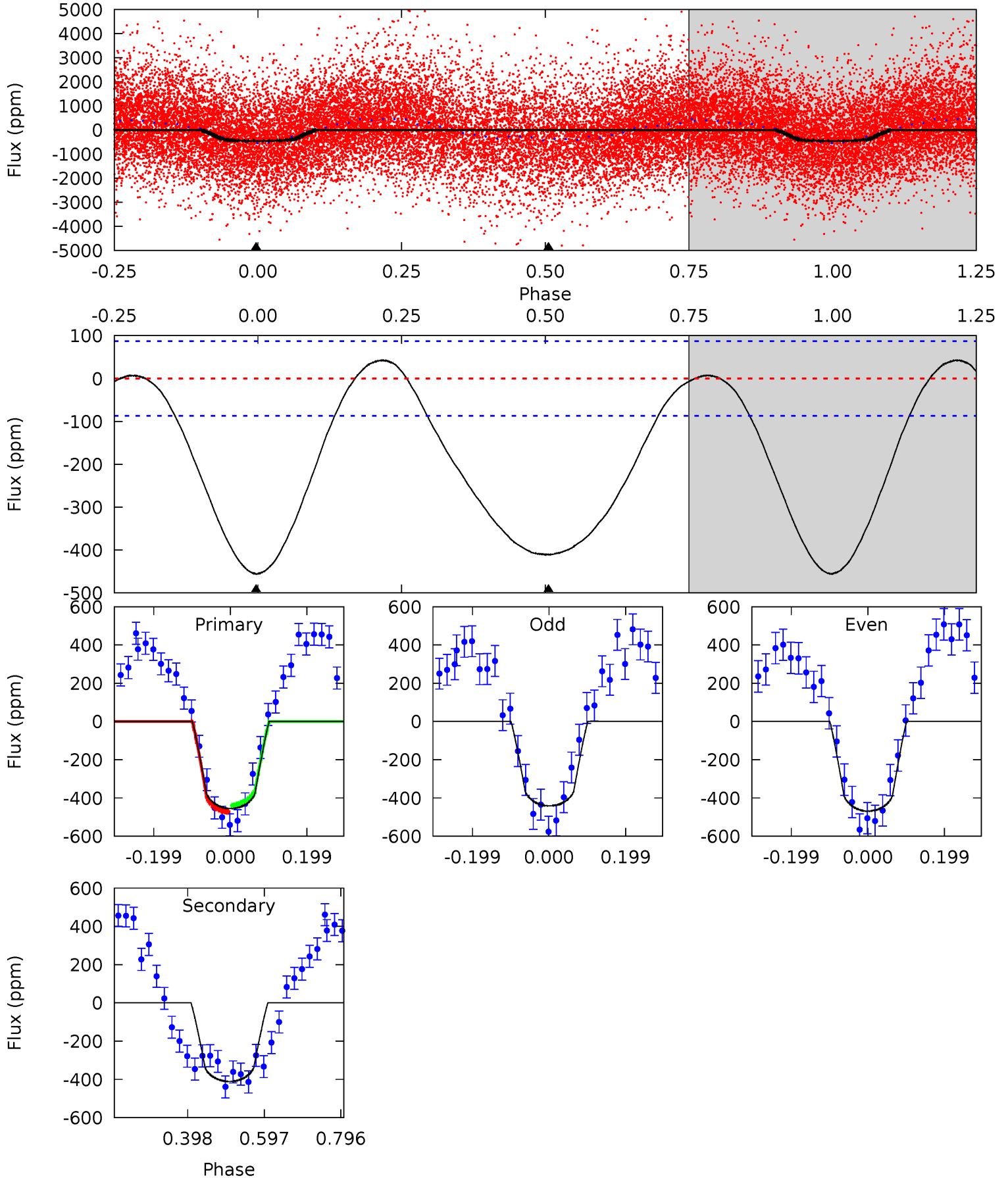


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

009895269-02, P = 0.552066 Days, E = 131.528480 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.1	20.8	0	0	4.42	1.28	1.98	23.1	23.1	20.8	20.8	0.70	0.99	0.09	0.85



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 009895269

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8552^{+235}_{-404}	$3.921^{+0.266}_{-0.143}$	$0.070^{+0.250}_{-0.550}$	$2.691^{+0.893}_{-0.982}$	$2.201^{+0.326}_{-0.605}$	$0.159^{+0.291}_{-0.067}$
	+3%/-5%	+7%/-4%	+357%/-786%	+33%/-36%	+15%/-27%	+183%/-42%
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 009895269-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-411 ± 20	$5.35^{+2.19}_{-2.04}$	6480^{+535}_{-563}	8459^{+3093}_{-1663}	$2.280^{+3.446}_{-1.083}$
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 $A_{\text{obs}} \gg 1.0$

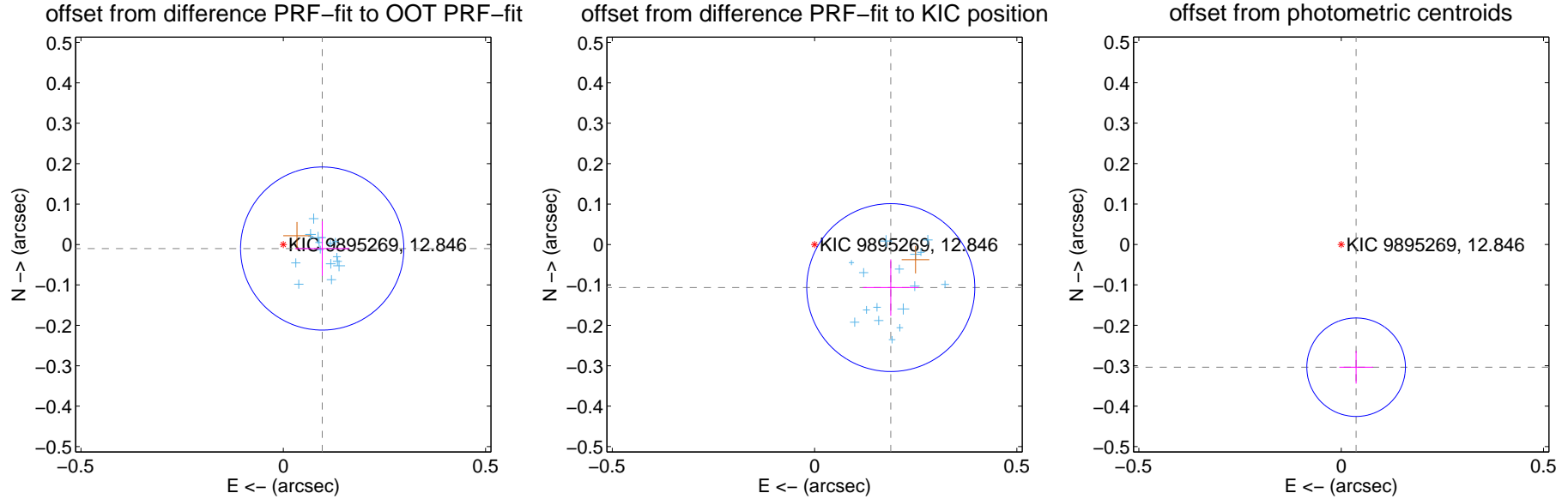
DV Centroid Data

Supplemental centroid analysis for 009895269-02. Kepler magnitude: 12.85. Transit SNR 16.25

There are 16 quarters with good PRF difference image offsets

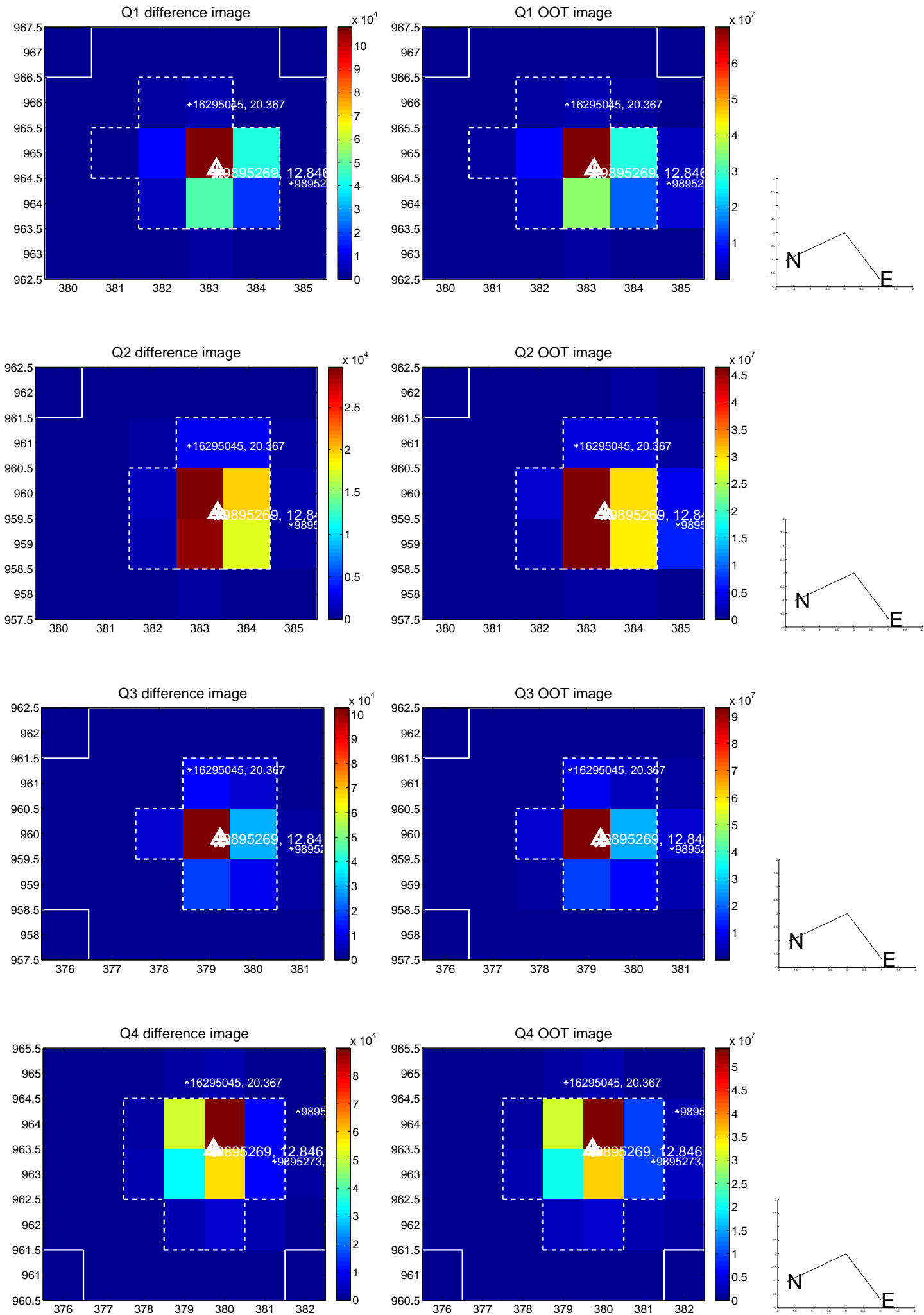
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.097 ± 0.067	1.44	-0.096 ± 0.067	-0.010 ± 0.068
PRF-fit source offset from KIC position	0.216 ± 0.069	3.13	-0.188 ± 0.069	-0.107 ± 0.070
photometric centroid source offset	0.31 ± 0.04	7.54	-0.04 ± 0.04	-0.30 ± 0.04

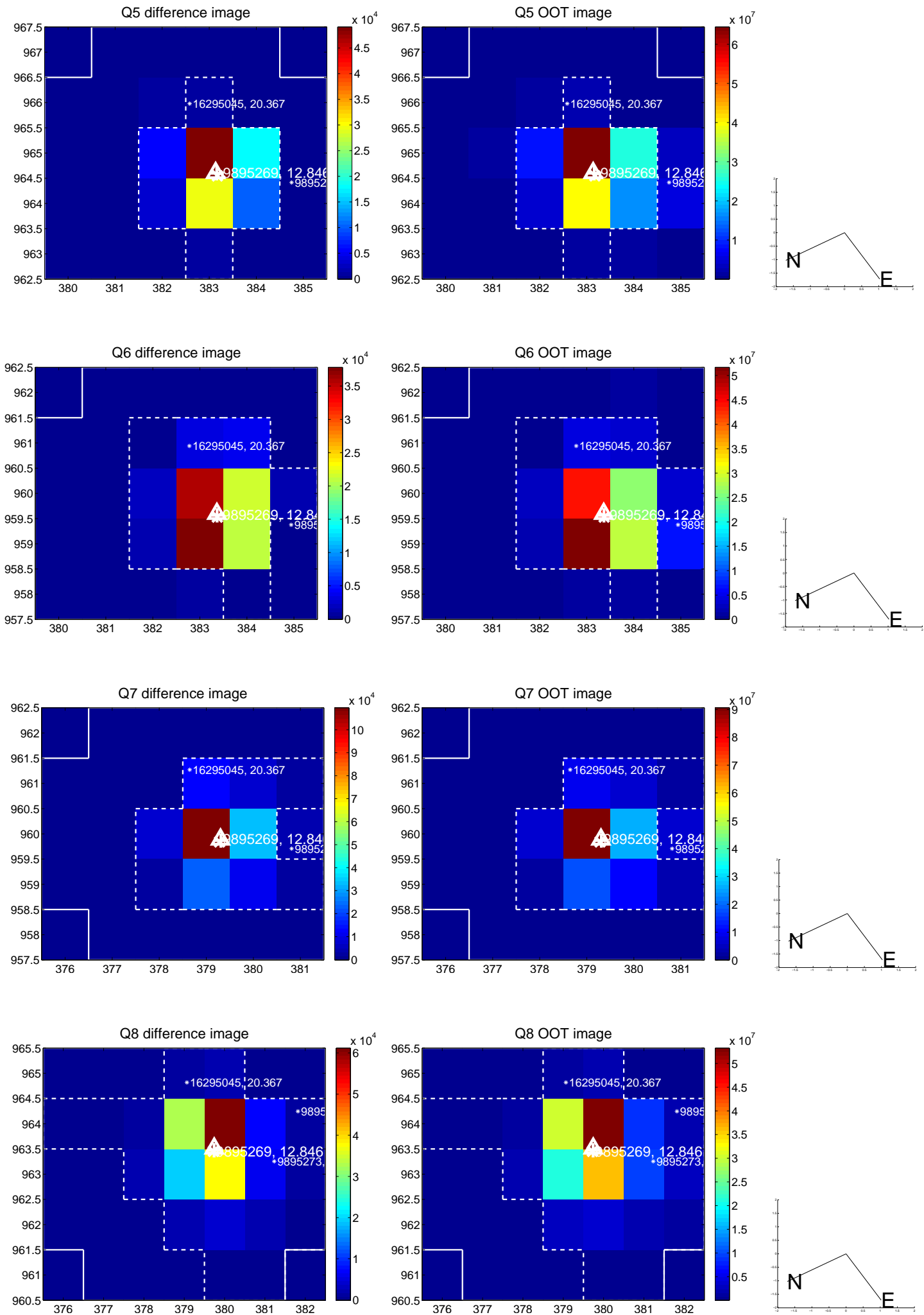


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

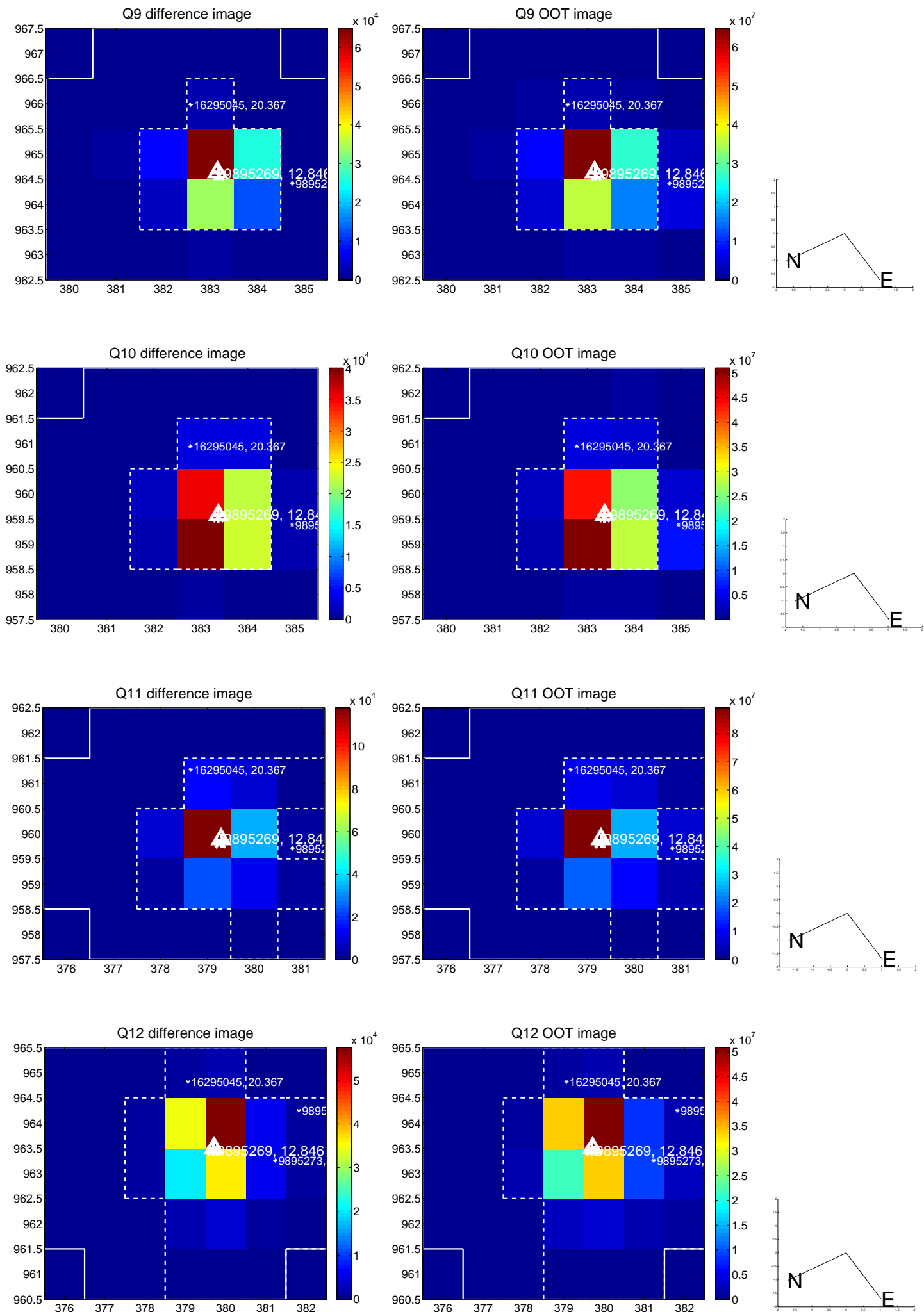
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



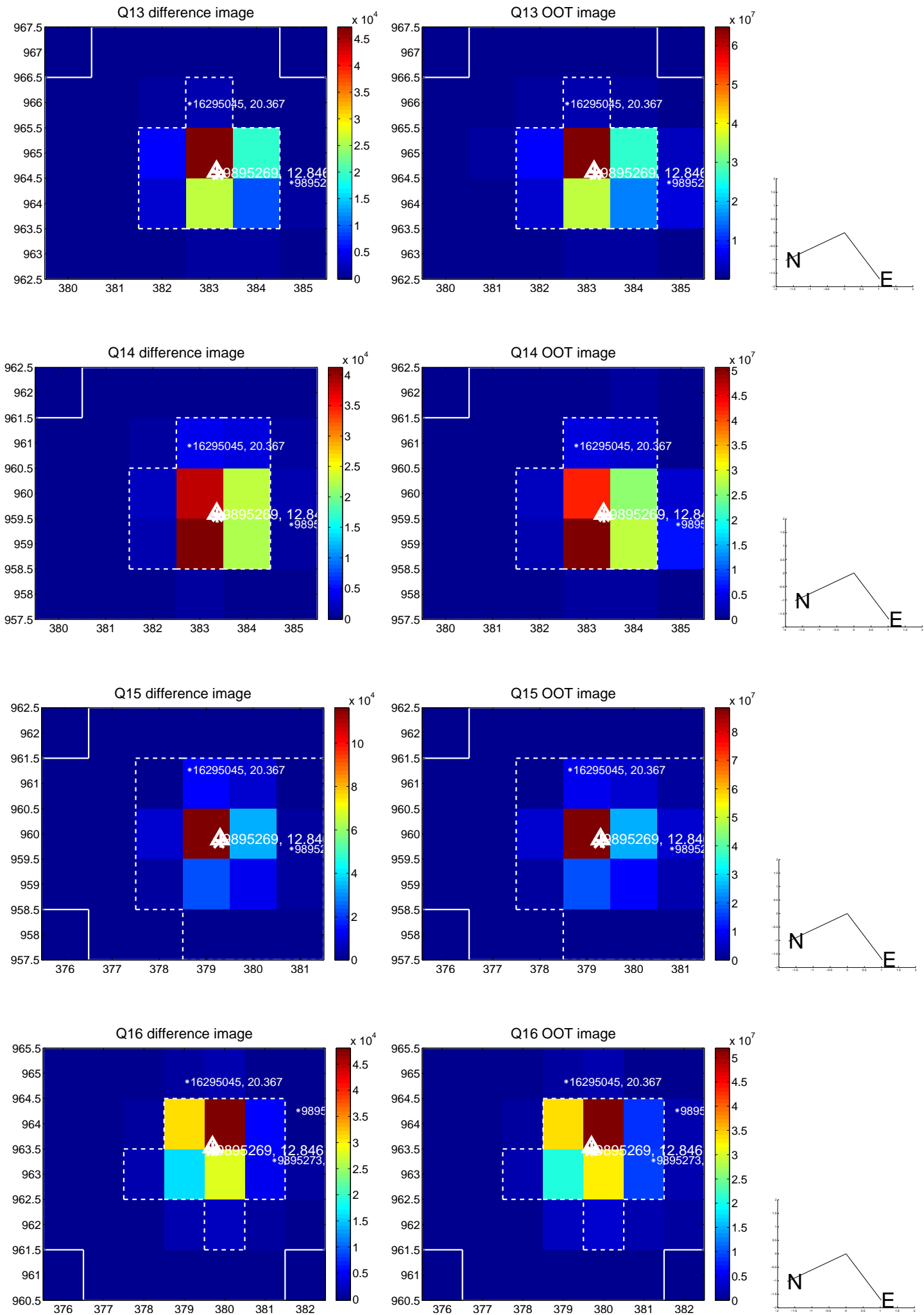
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



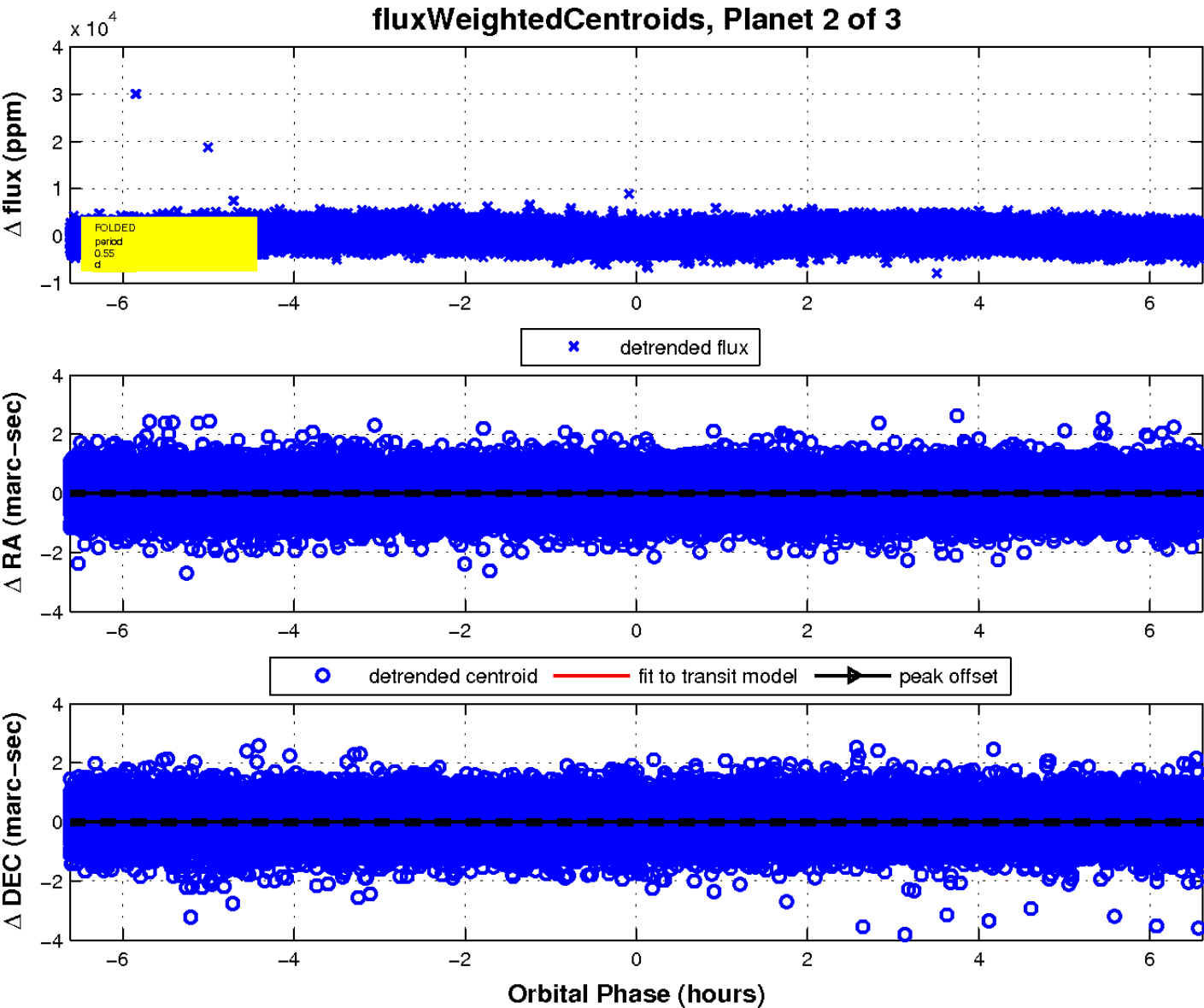
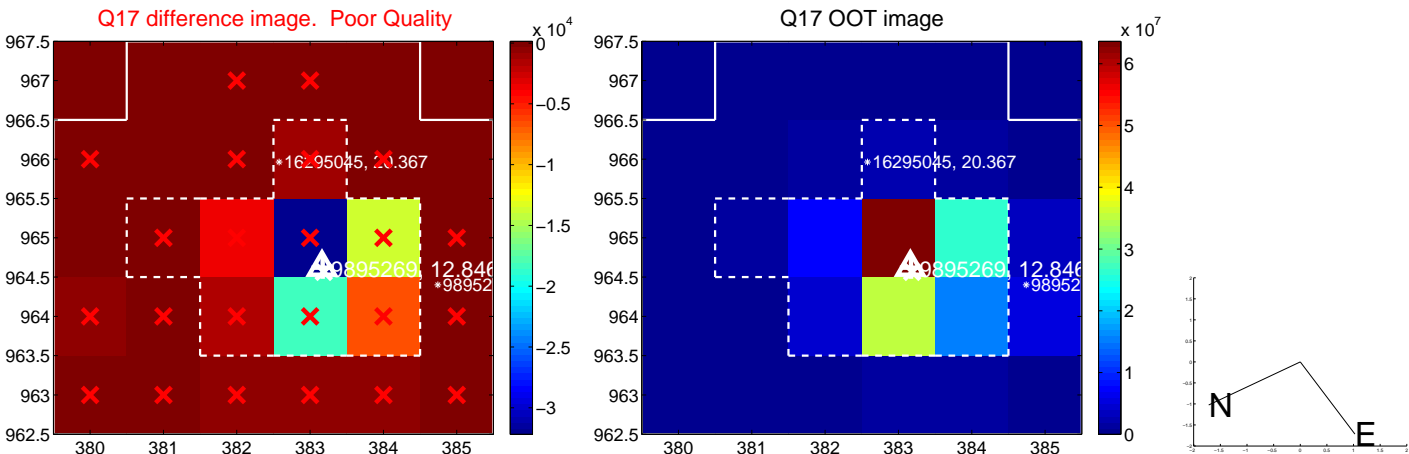
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

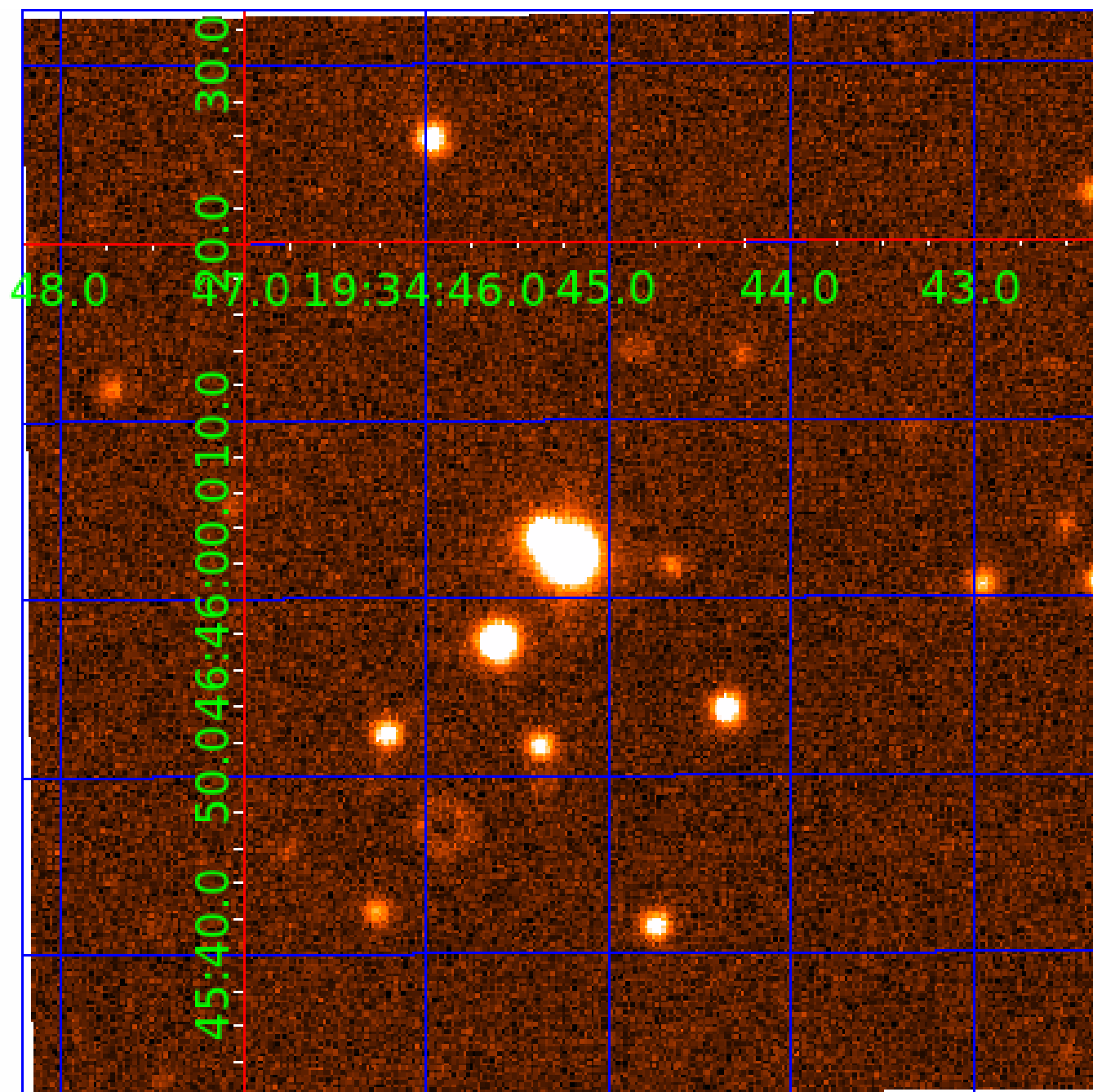


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009895269

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})
009895269-01	OBS	No	0.552257	131.526258	41.2	2.915	14.5	2.6	2.69	8552	1.79	118100.72
009895269-02	OBS	No	0.552066	131.528480	402.6	2.206	13.1	16.3	2.69	8552	5.53	118155.11
009895269-03	OBS	No	0.552091	131.822178	335.0	2.068	12.3	12.0	2.69	8552	5.04	118148.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009895269-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
009895269-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—SAME_NTL_PERIOD
009895269-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—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.

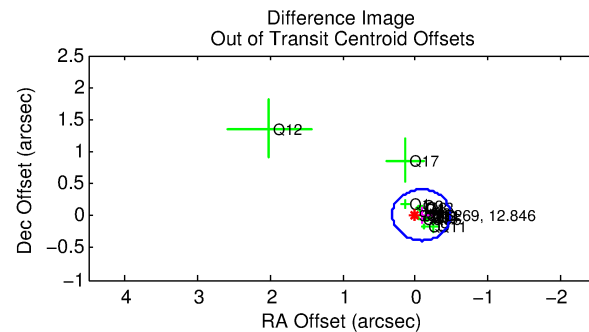
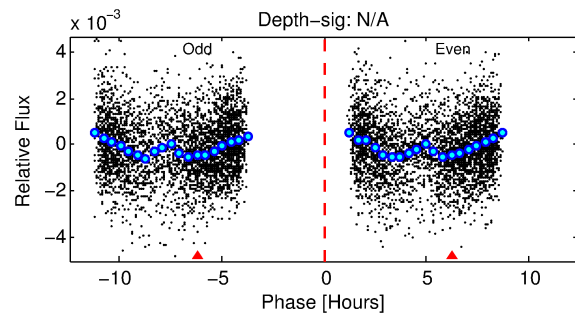
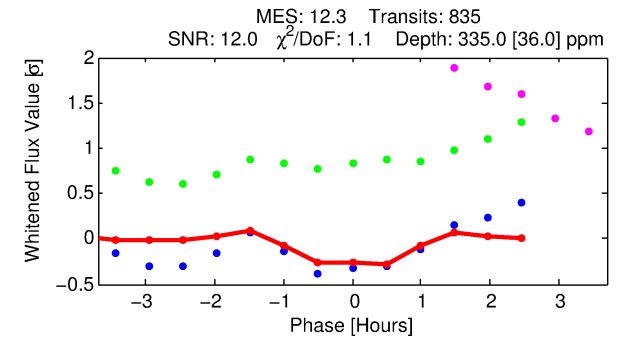
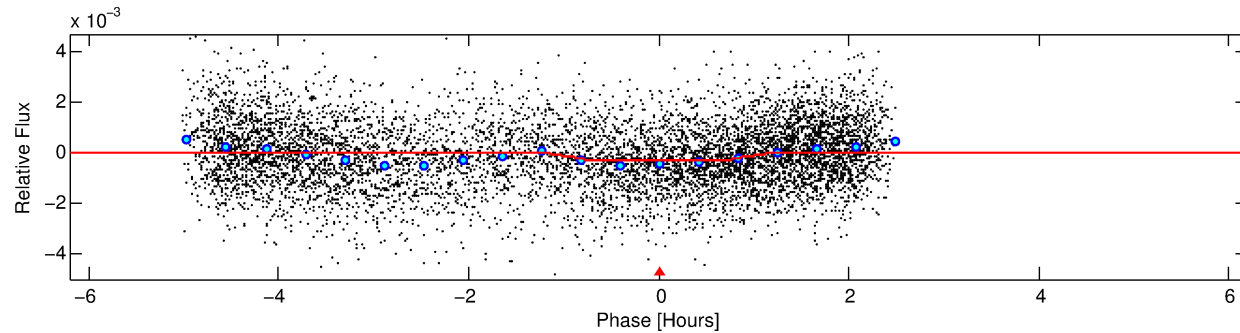
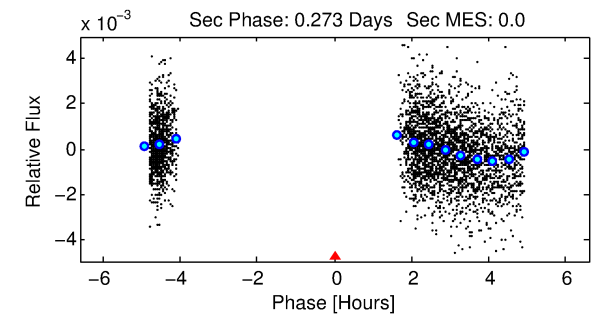
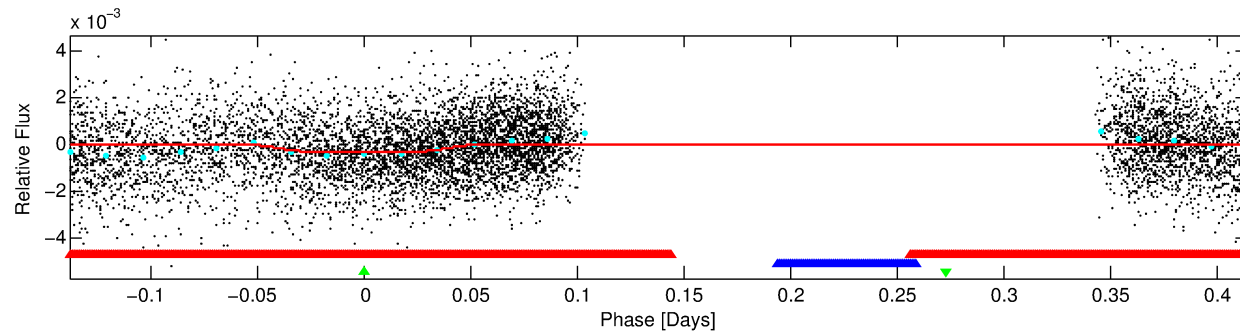
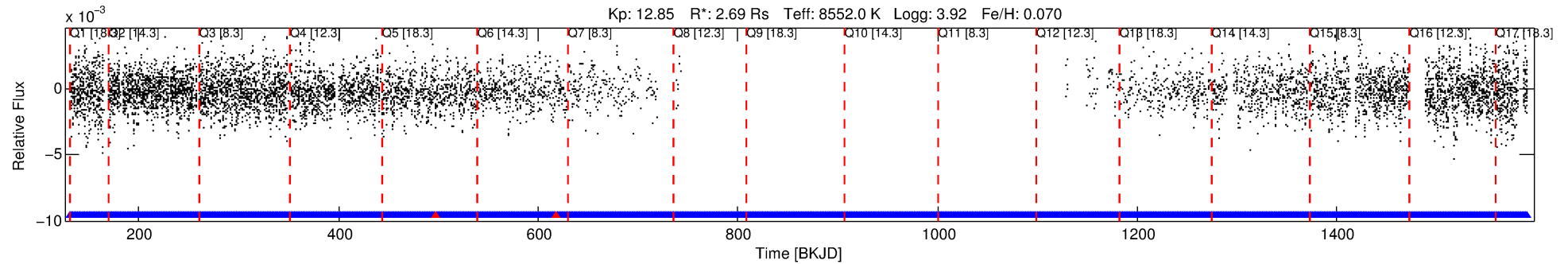
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009895269-03

No Significant Match Found

DV One-Page Summary

KIC: 9895269 Candidate: 3 of 3 Period: 0.552 d



DV Fit Results:

Period = 0.55209 [0.00001] d
 Epoch = 131.8222 [0.0021] BKJD
 Rp/R* = 0.0172 [0.0082]
 a/R* = 2.09 [4.55]
 b = 0.30 [8.73]
 Seff = 118148.15 [60431.49]
 Teq = 4728 [605] K
 Rp = 5.04 [3.03] Re
 a = 0.0171 [0.0054] AU
 Ag = N/A
 Tefp = N/A

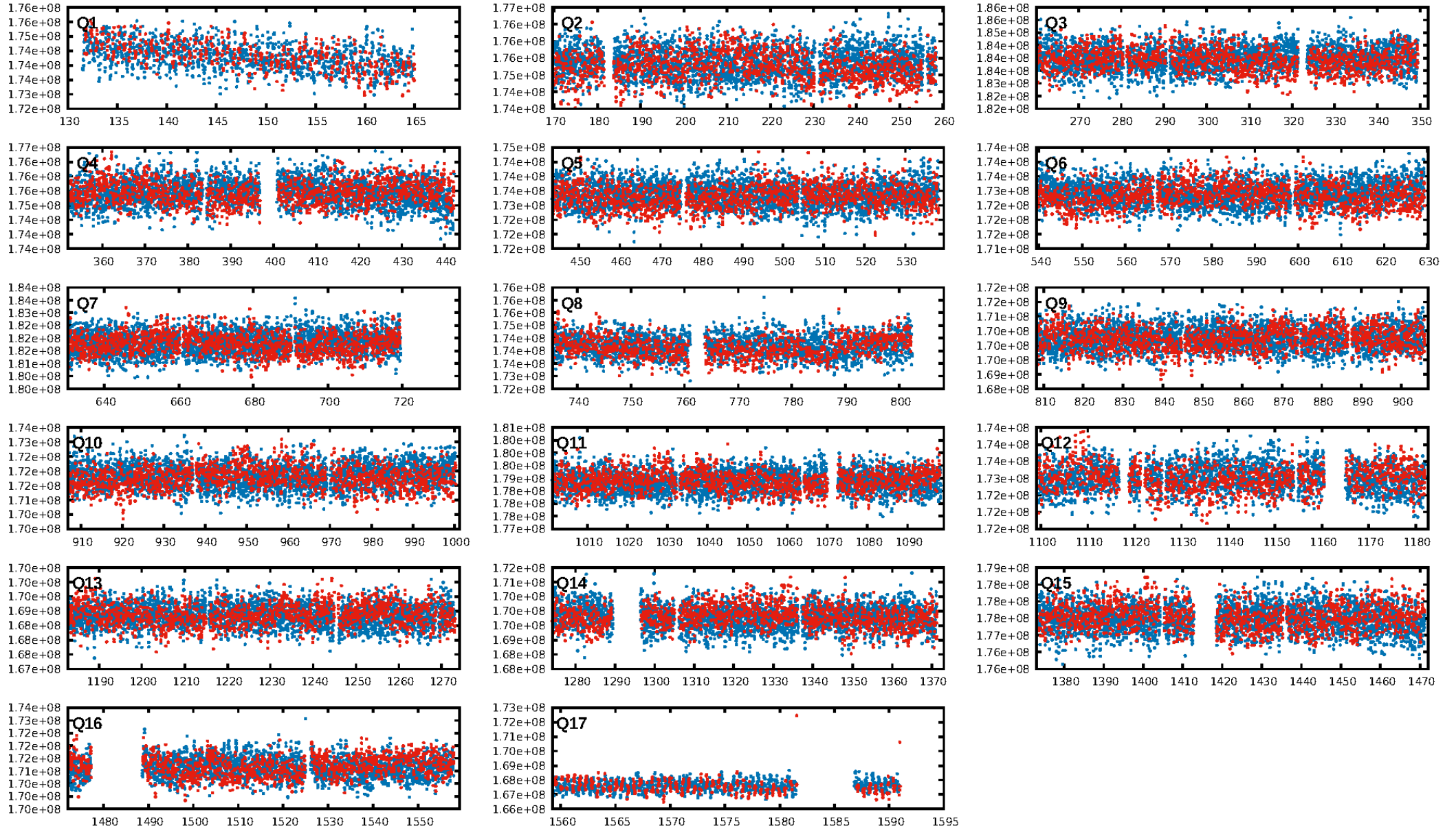
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
 LongPeriod-sig: 0.1% [0.00σ]
 ModelChiSquare2-sig: N/A
 ModelChiSquareGof-sig: N/A
 Bootstrap-pfa: N/A
 RollingBand-fgt: 1.00 [771/773]
 GhostDiagnostic-chr: -5.157
 Centroid-sig: 18.8%
 Centroid-so: 0.392 arcsec [7.68σ]
 OotOffset-rm: 0.082 arcsec [0.62σ]
 KicOffset-rm: 0.175 arcsec [1.13σ]
 OotOffset-st: 4/4/4/5 [17]
 KicOffset-st: 4/4/4/5 [17]
 DiffImageQuality-fgm: 0.59 [10/17]
 DiffImageOverlap-fno: 0.00 [0/17]

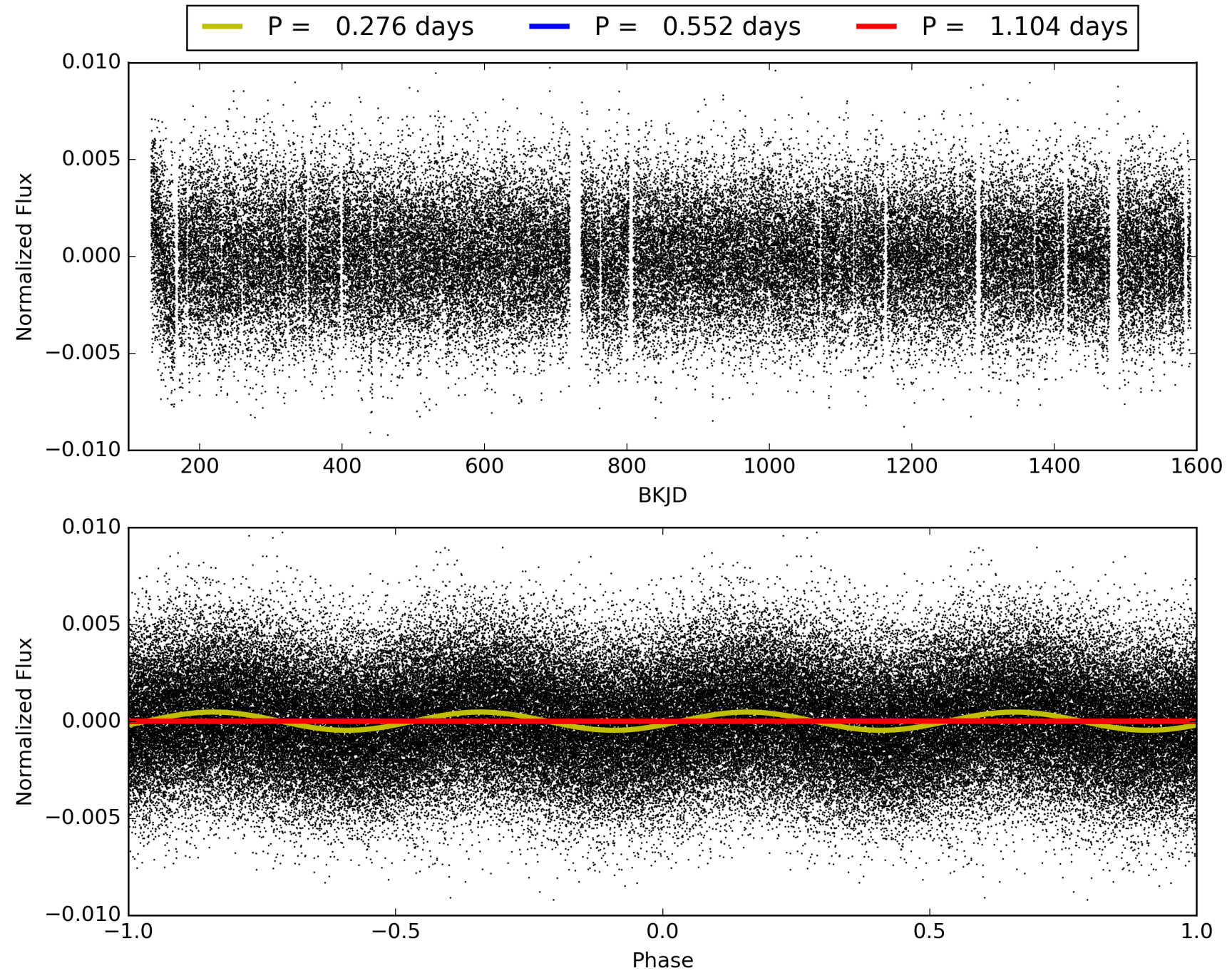
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 01:55:55 Z

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

TCE 009895269-03, PDC Light Curves

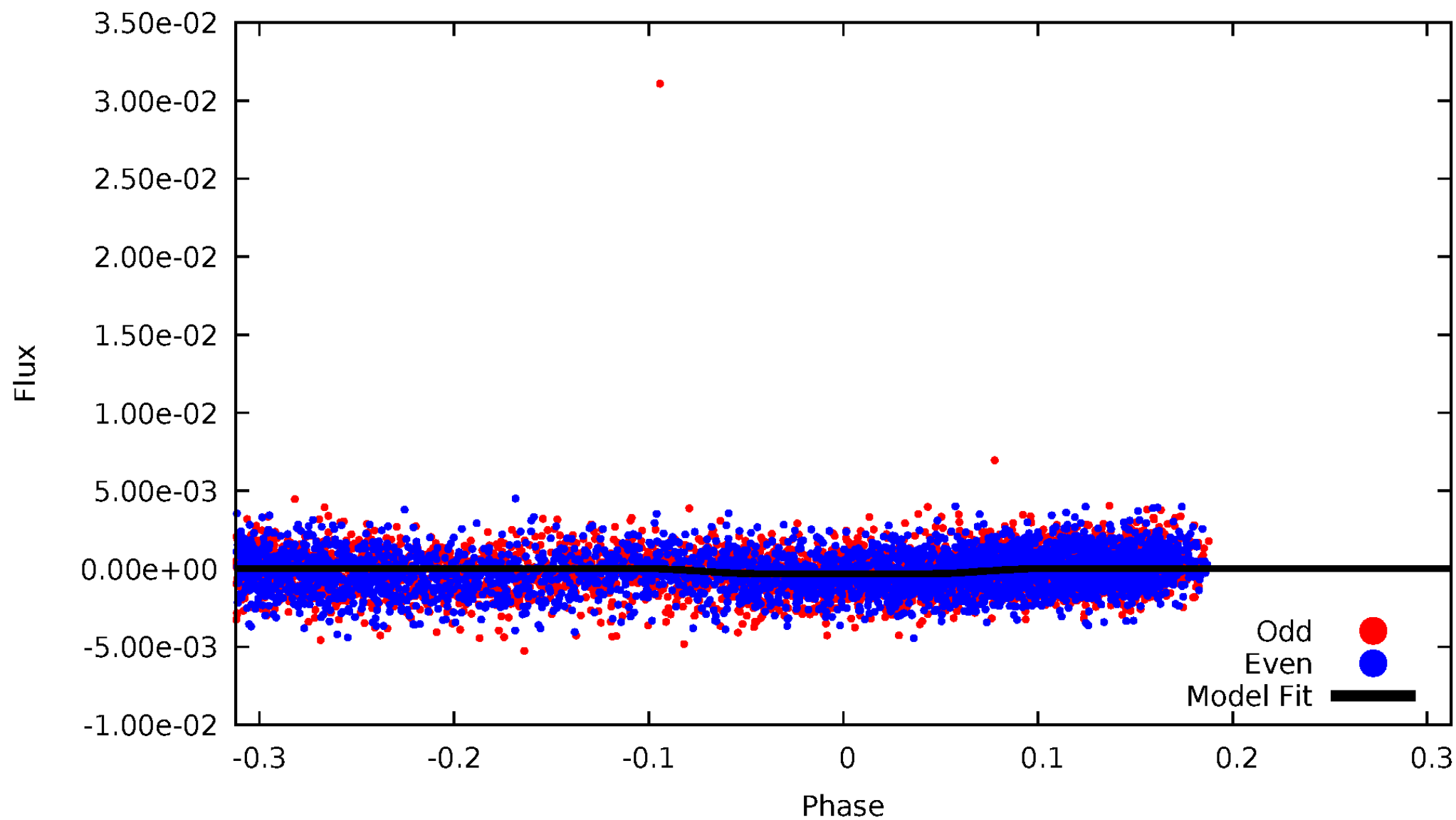


TCE 009895269-03



DV Odd/Even

TCE 009895269-03

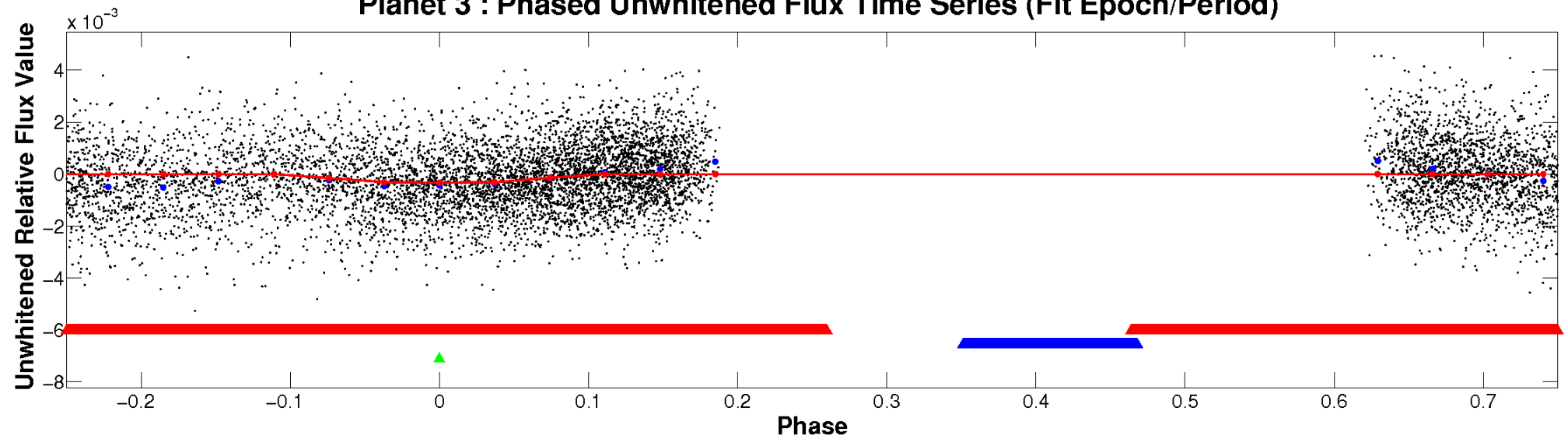


ALT Odd/Even

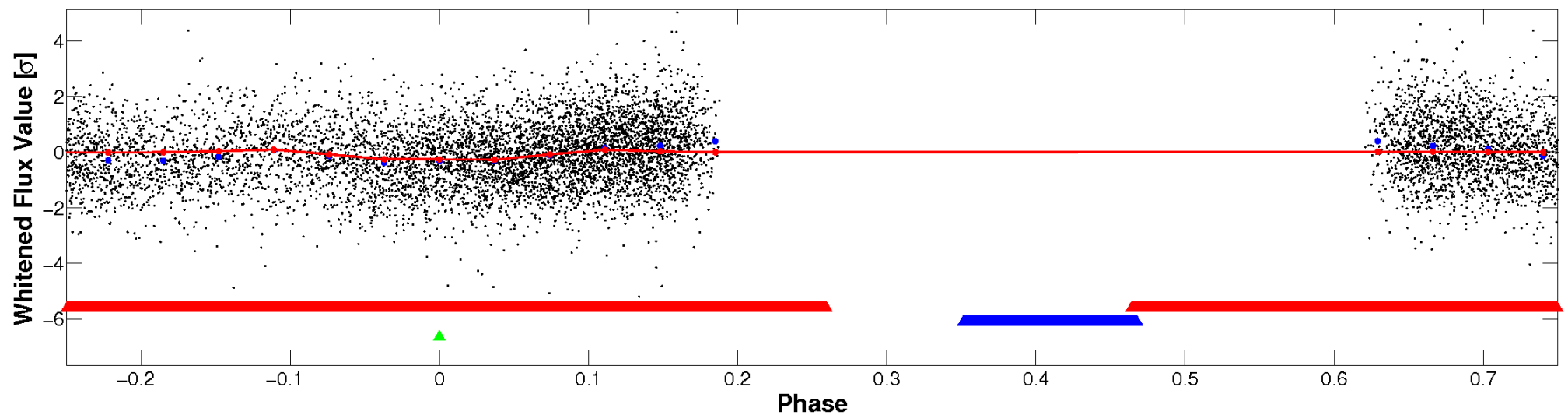
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

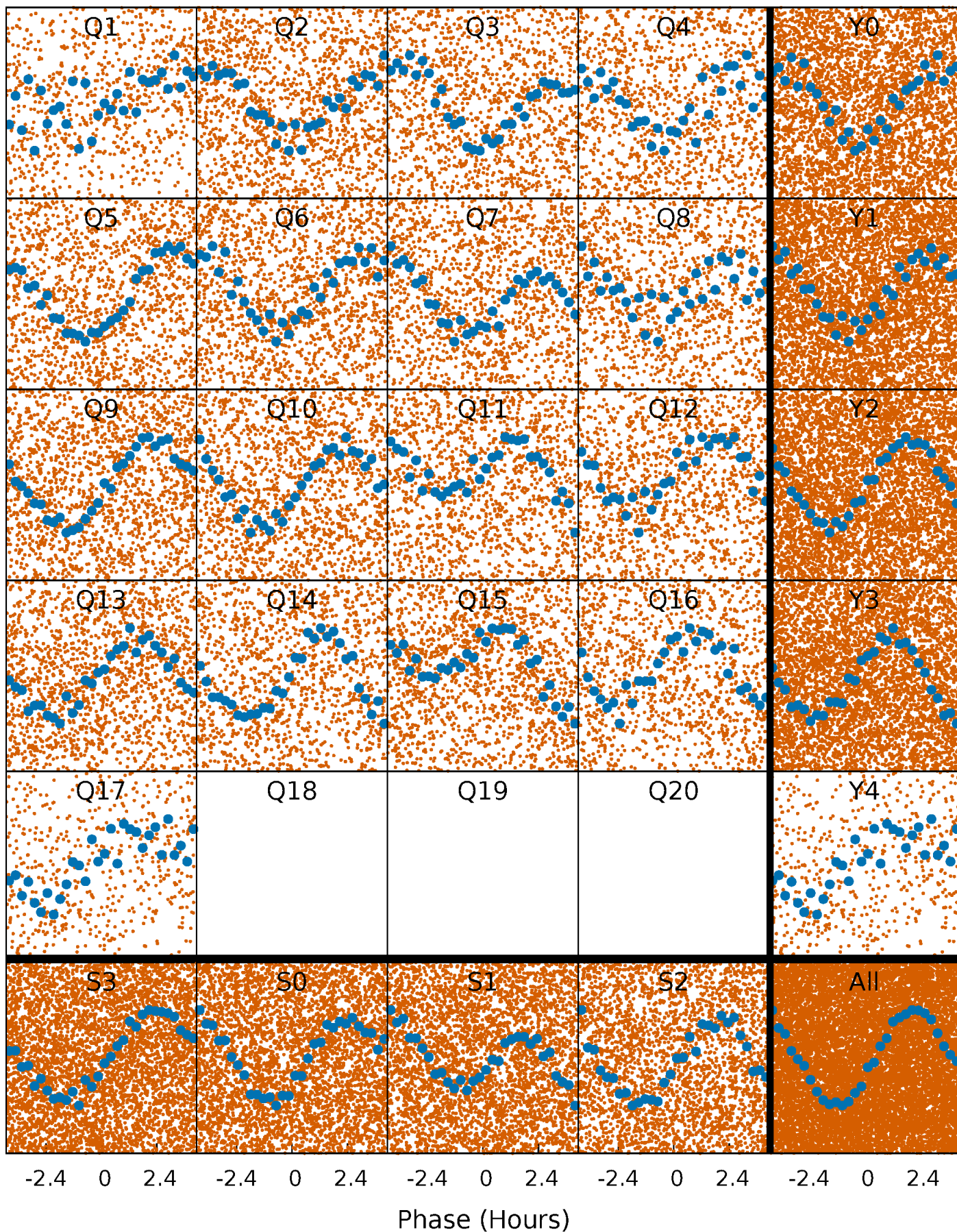


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



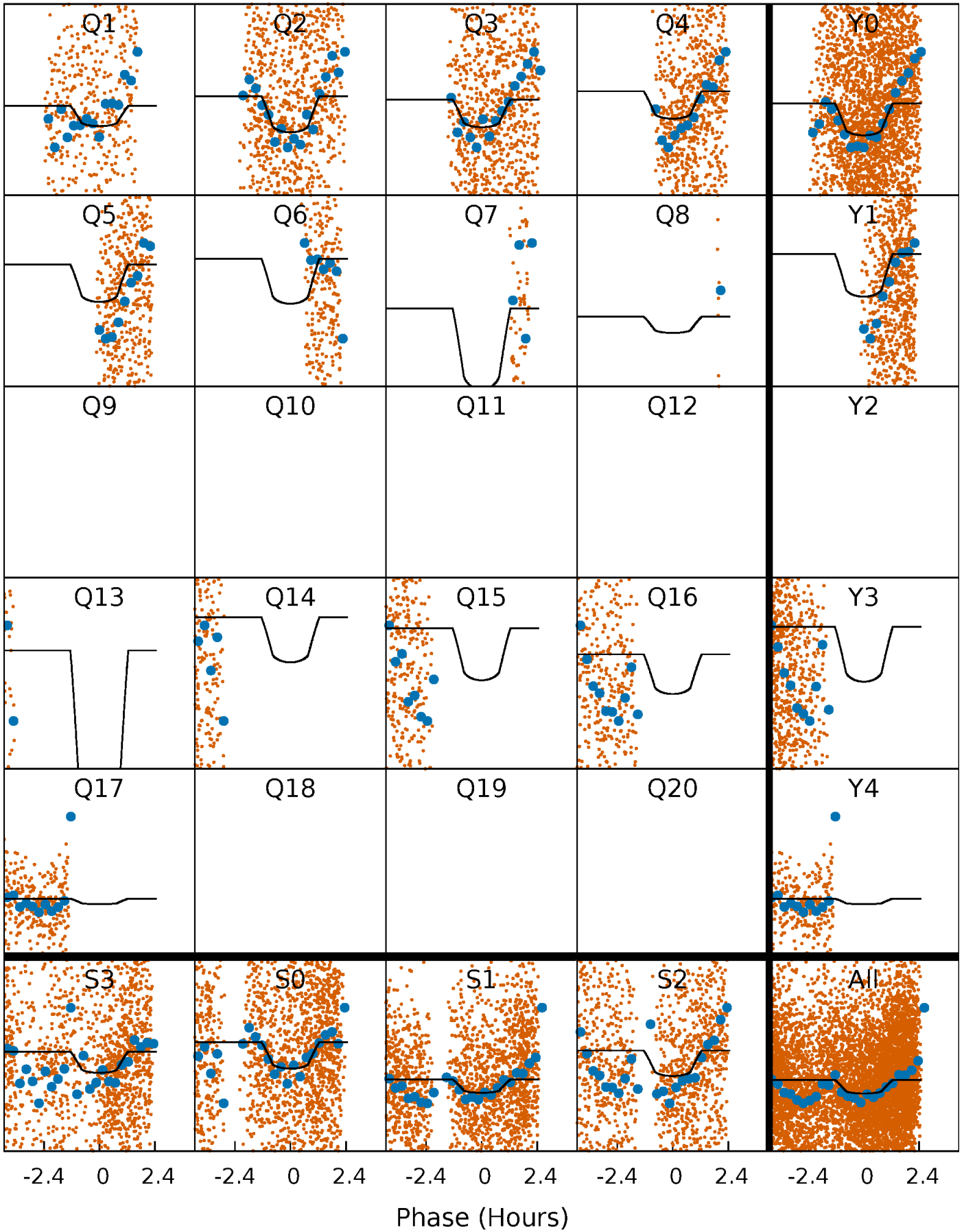
PDC Quarter-Phased Transit Curves

TCE 009895269-03 P= 0.552091 Days $T_0=131.822178$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 009895269-03 $P = 0.552091$ Days $T_0 = 131.822178$ (BKJD)

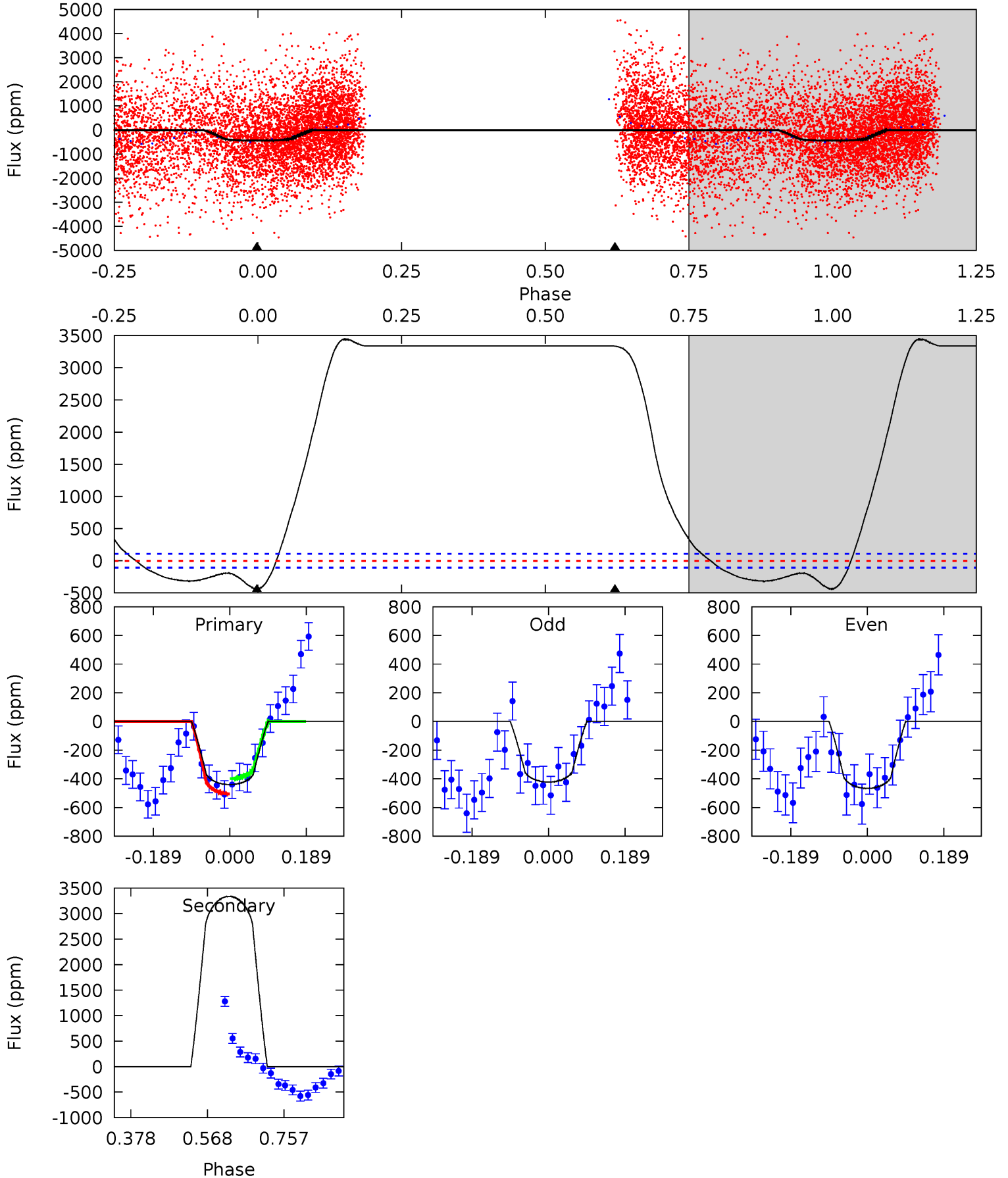


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

009895269-03, P = 0.552091 Days, E = 131.270087 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.1	-136.7	0	0	4.43	1.31	71.0	18.1	18.1	-136.7	-136.7	0.90	1.00	0.89	2.35



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 009895269

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8552^{+235}_{-404}	$3.921^{+0.266}_{-0.143}$	$0.070^{+0.250}_{-0.550}$	$2.691^{+0.893}_{-0.982}$	$2.201^{+0.326}_{-0.605}$	$0.159^{+0.291}_{-0.067}$
	+3%/-5%	+7%/-4%	+357%/-786%	+33%/-36%	+15%/-27%	+183%/-42%
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 009895269-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	3336 ± 24	$4.90^{+2.42}_{-2.40}$	6462^{+525}_{-568}	-25435^{+9115}_{-36556}	$-21.930^{+12.105}_{-57.165}$
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 $A_{\text{obs}} \gg 1.0$

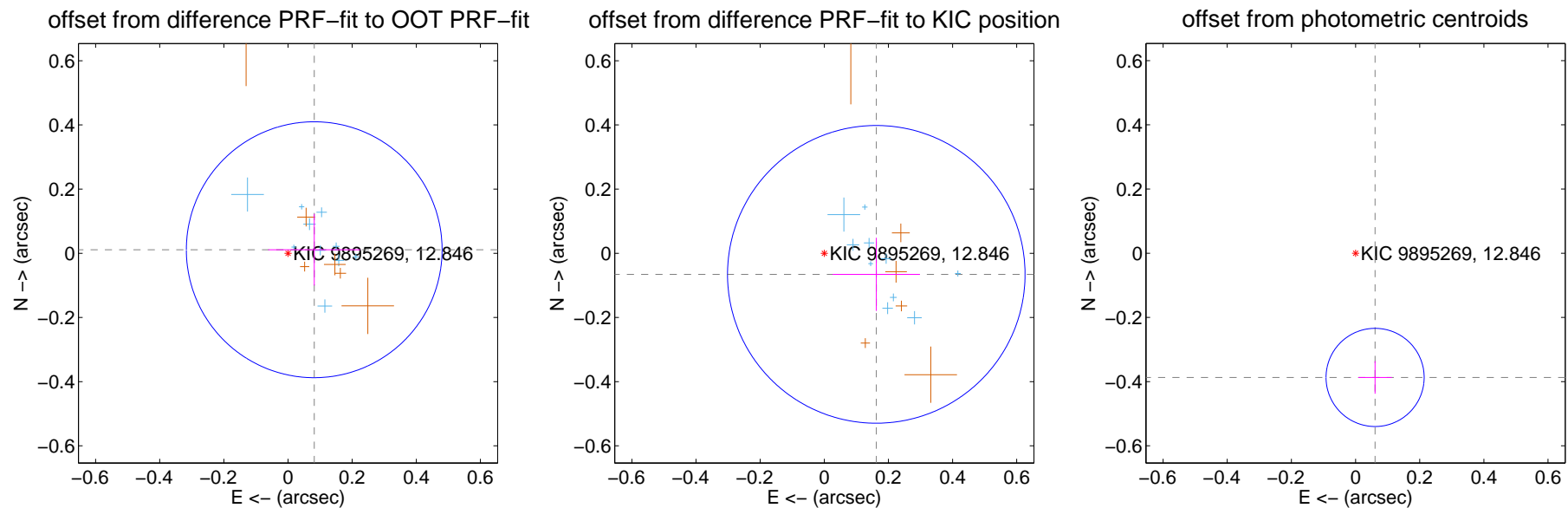
DV Centroid Data

Supplemental centroid analysis for 009895269-03. Kepler magnitude: 12.85. Transit SNR 12.03

There are 10 quarters with good PRF difference image offsets

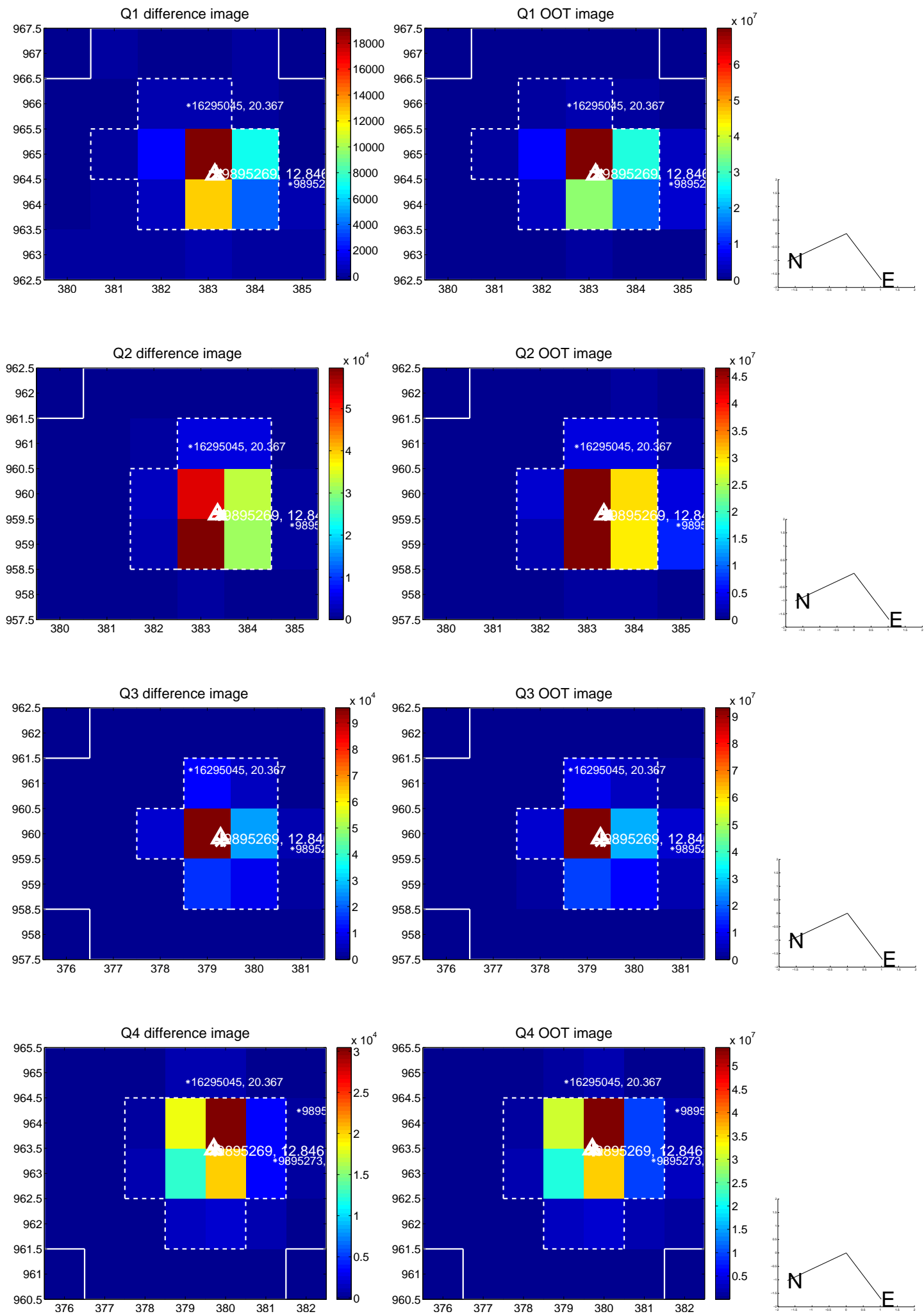
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.082 ± 0.133	0.62	-0.082 ± 0.143	0.011 ± 0.112
PRF-fit source offset from KIC position	0.175 ± 0.155	1.13	-0.162 ± 0.136	-0.066 ± 0.114
photometric centroid source offset	0.39 ± 0.05	7.68	-0.06 ± 0.05	-0.39 ± 0.05

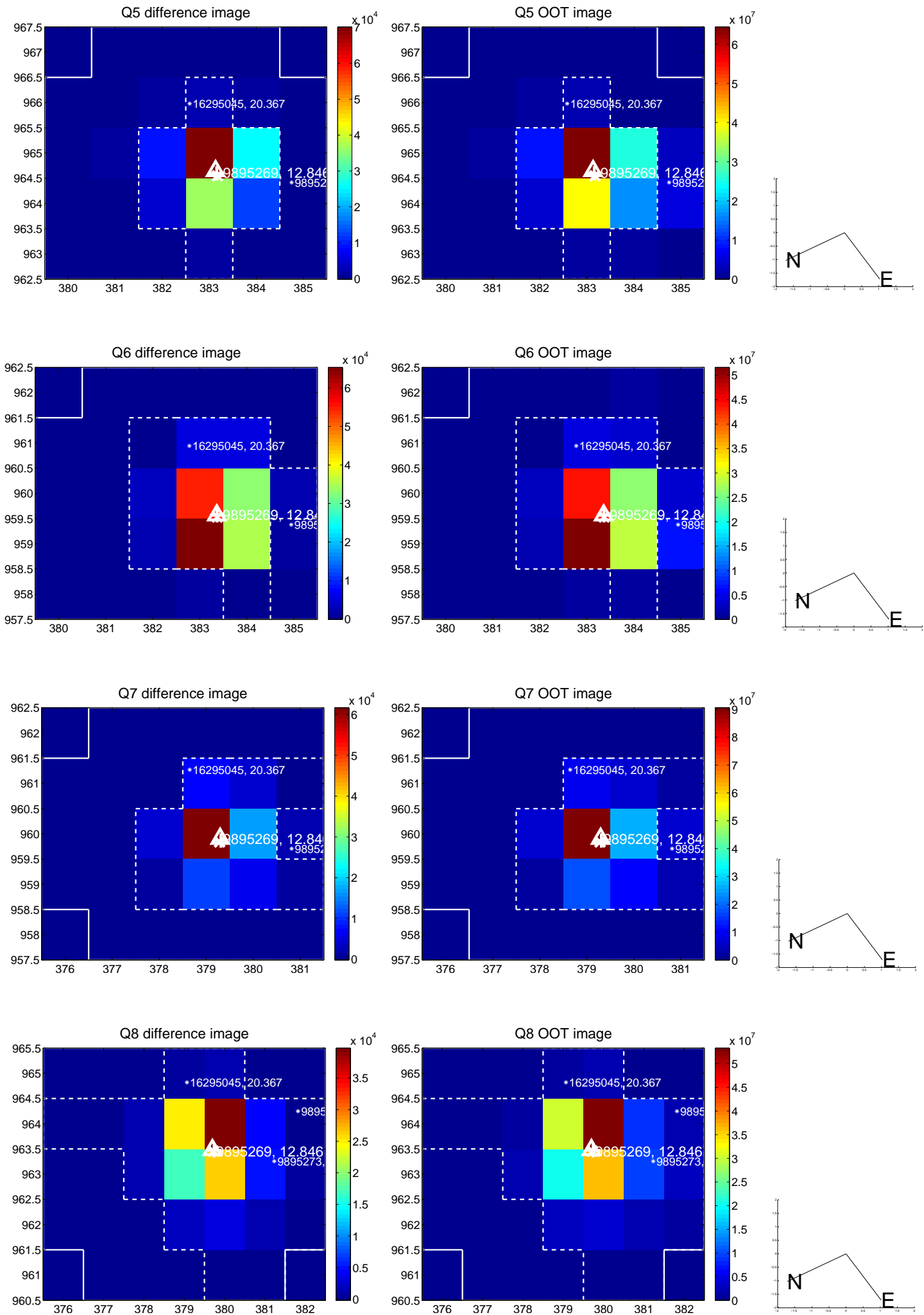


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

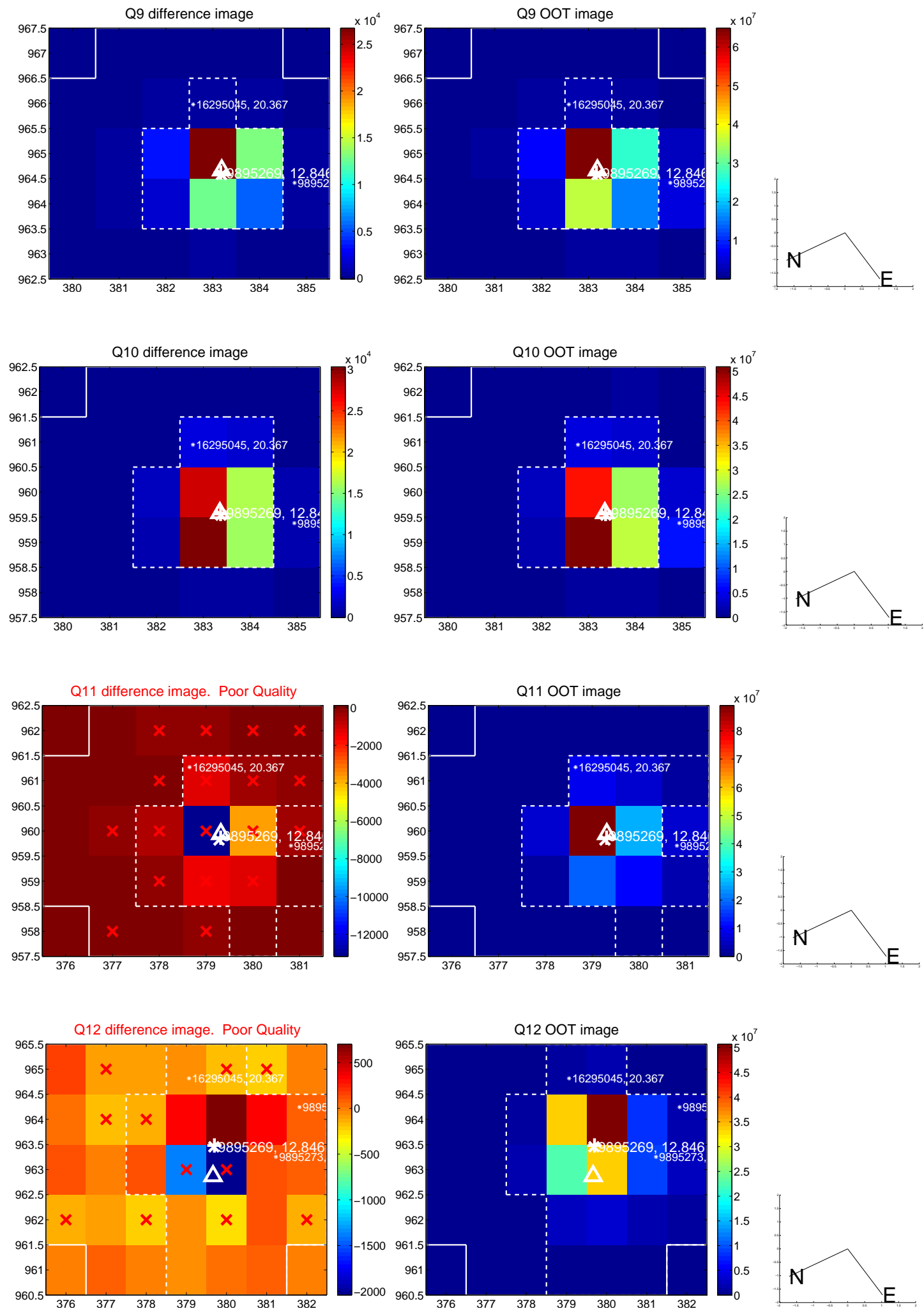
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



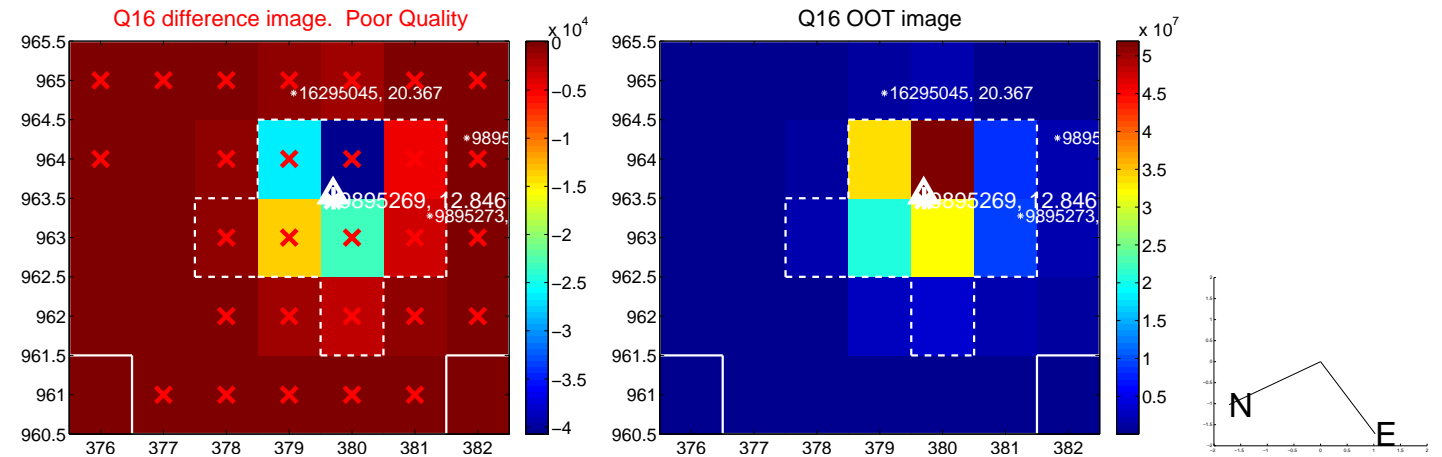
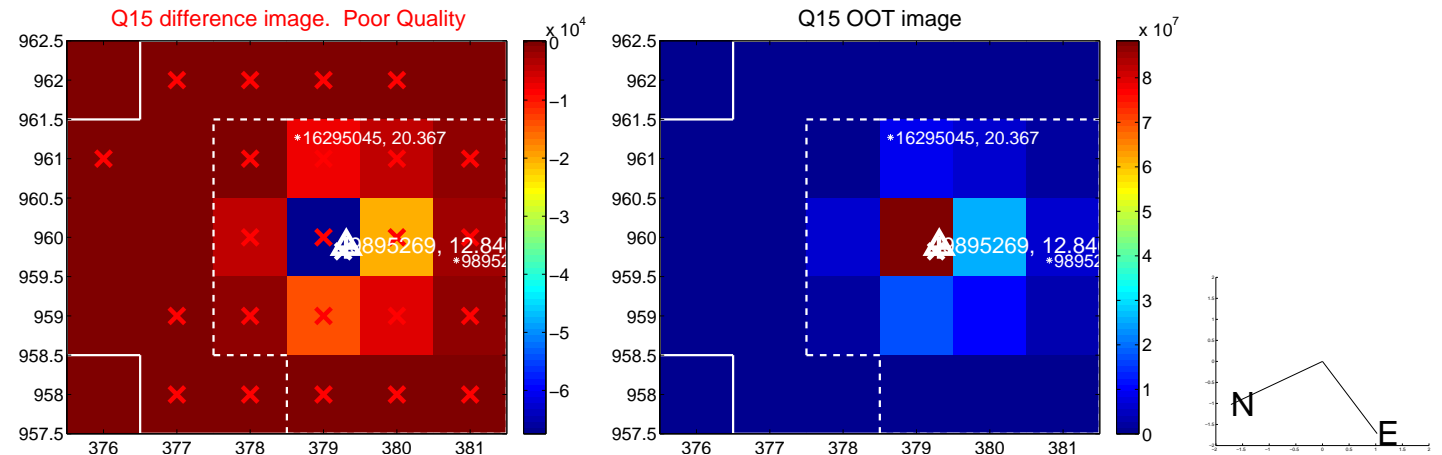
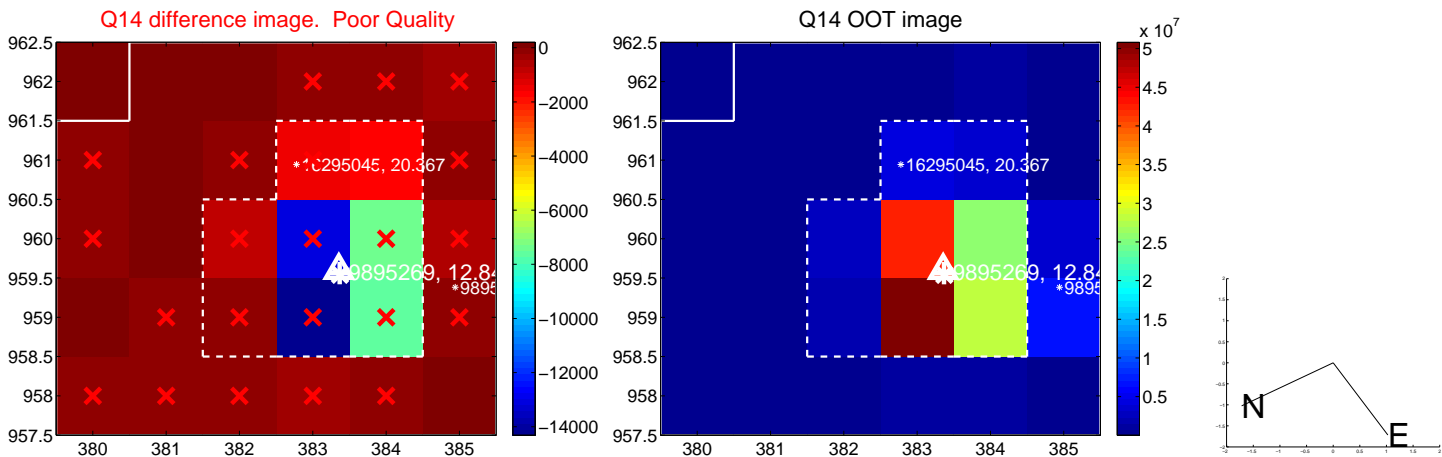
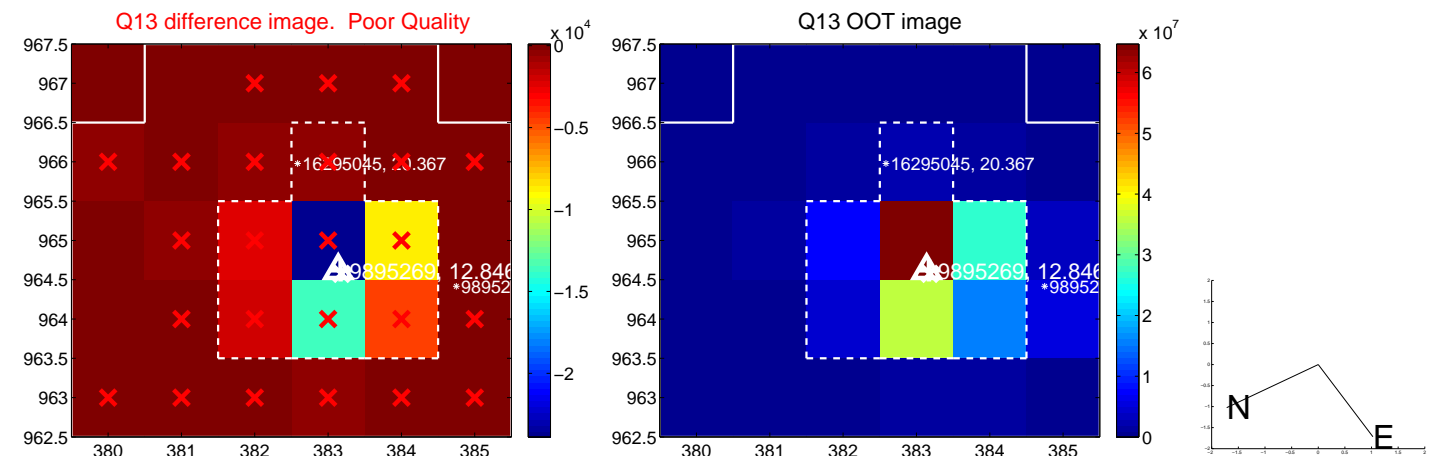
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



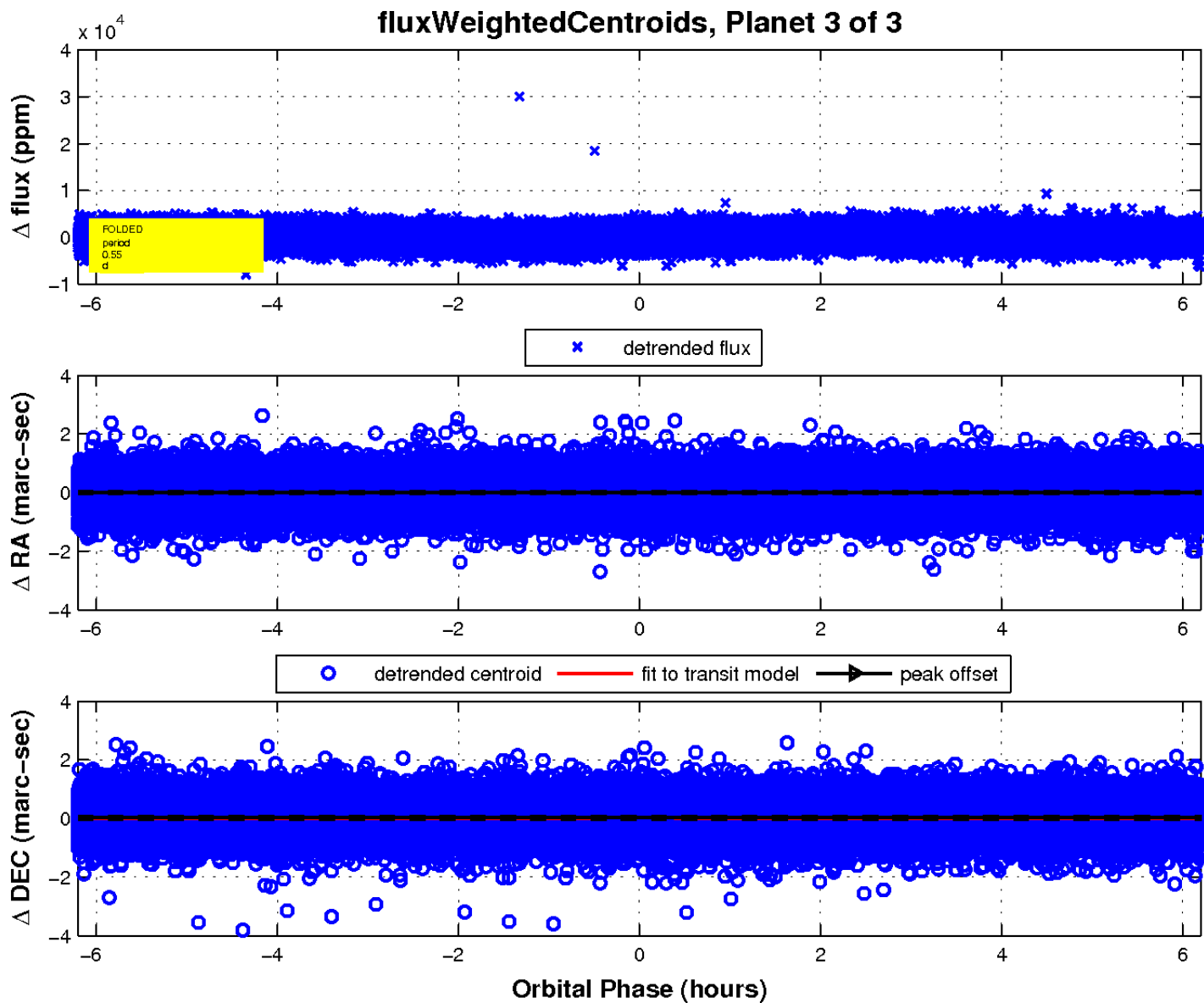
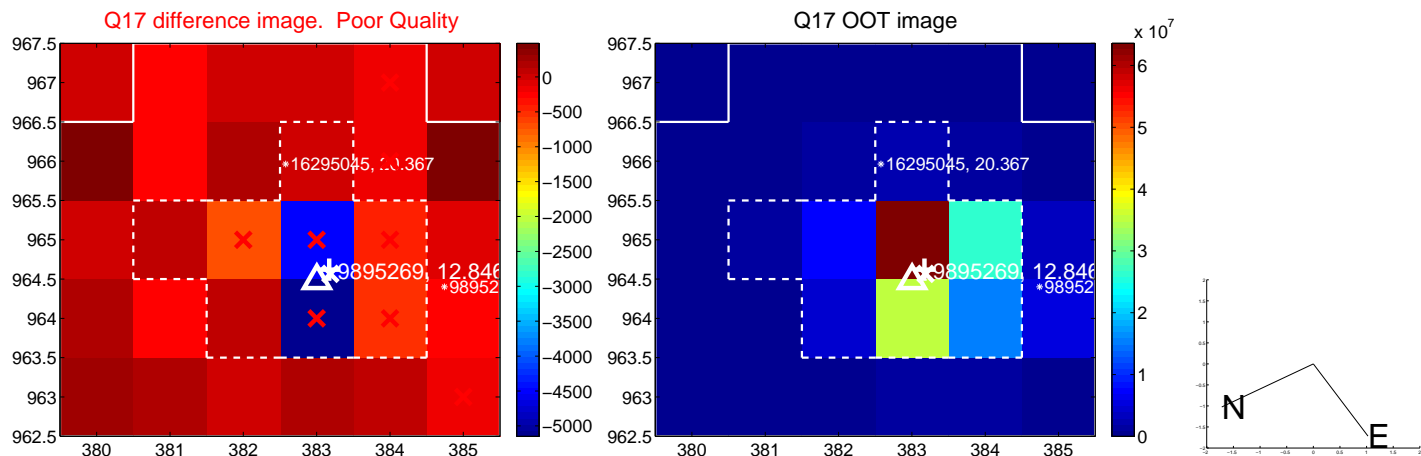
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

