

KIC 007031126

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})
007031126-01	OBS	7573.01	0.566742	131.882120	8.6	4.245	8.5	3.7	1.96	5102	0.56	14376.76
007031126-02	OBS	No	11.574048	134.284998	197.6	3.660	15.4	11.4	1.96	5102	2.72	257.55
007031126-03	OBS	No	7.676564	135.517245	835.1	1.500	13.6	-1.0	1.96	5102	5.56	445.26
007031126-04	OBS	No	14.045528	141.433326	716.5	0.520	15.9	20.8	1.96	5102	5.80	198.97
007031126-05	OBS	No	6.067112	134.420271	168.7	1.392	8.5	9.8	1.96	5102	2.50	609.35
007031126-06	OBS	No	3.112986	133.346365	122.0	1.246	10.8	8.4	1.96	5102	2.22	1483.45
007031126-07	OBS	No	14.125409	138.033325	160.6	3.353	11.9	8.6	1.96	5102	2.45	197.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007031126-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007031126-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_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 007031126-01

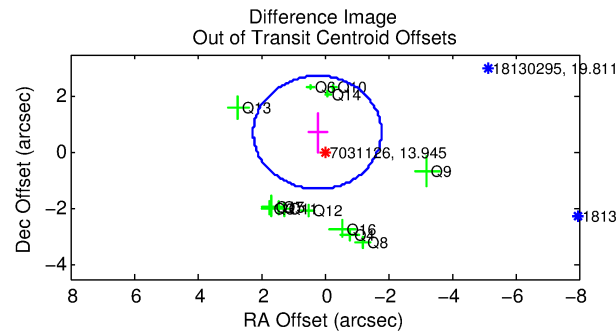
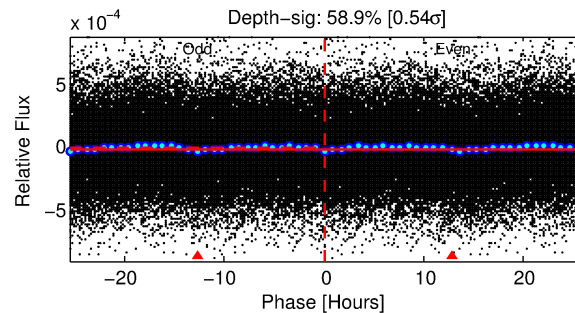
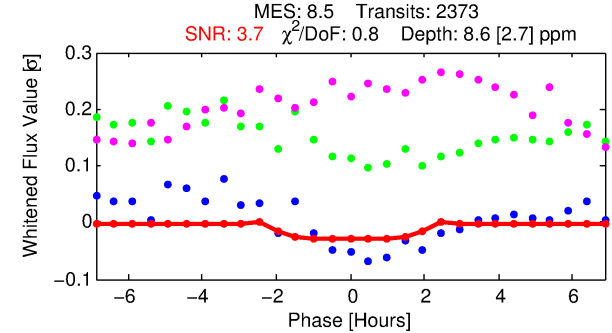
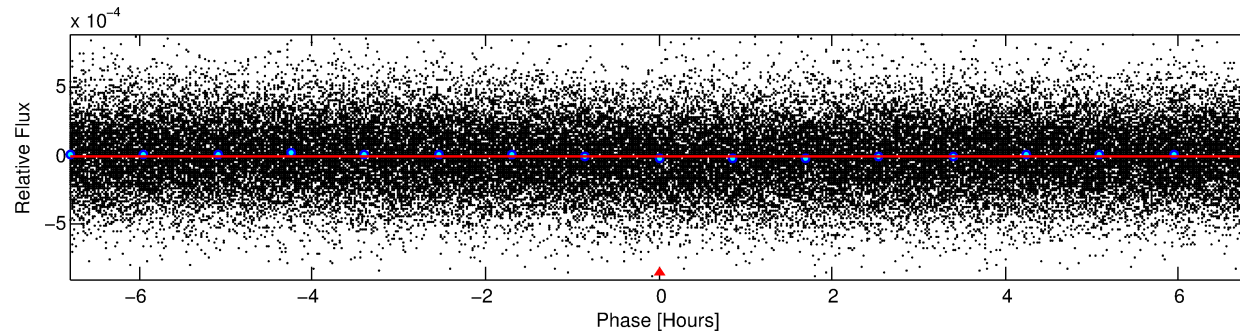
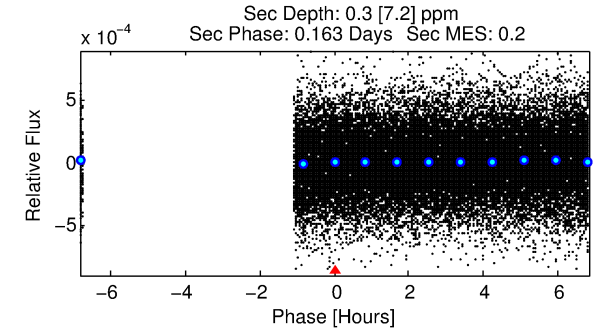
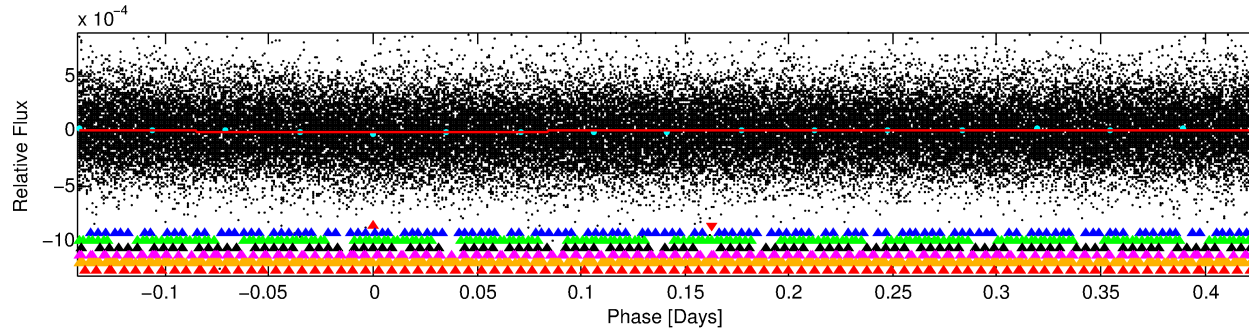
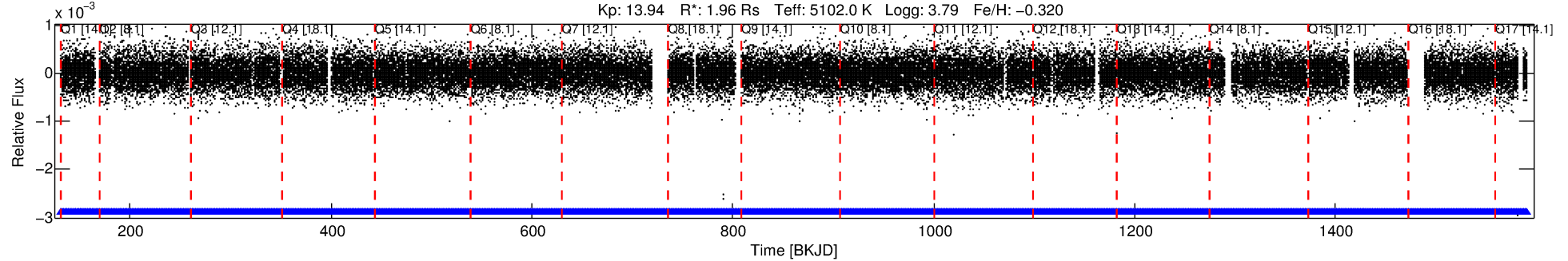
TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (″)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007031126-01	7031126	RR-Lyr-pri	7198959	1:1	1214.7	7	-306	7.86	13.94	69255.00	Direct-PRF	0	1.27	20.33

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: 7031126 Candidate: 1 of 7 Period: 0.567 d
KOI: K07573.01 Corr: 0.779

Kp: 13.94 R*: 1.96 Rs Teff: 5102.0 K Logg: 3.79 Fe/H: -0.320



DV Fit Results:

Period = 0.56674 [0.00003] d
Epoch = 131.8821 [0.0126] BKJD
Rp/R* = 0.0026 [0.0076]
a/R* = 1.20 [3.97]
b = 0.17 [62.64]
Seff = 14376.77 [19231.52]
Teff = 2792 [934] K
Rp = 0.56 [1.67] Re
a = 0.0127 [0.0098] AU
Ag = 0.08 [2.08] [-0.44σ]
Teffp = 2281 [15206] K [-0.03σ]

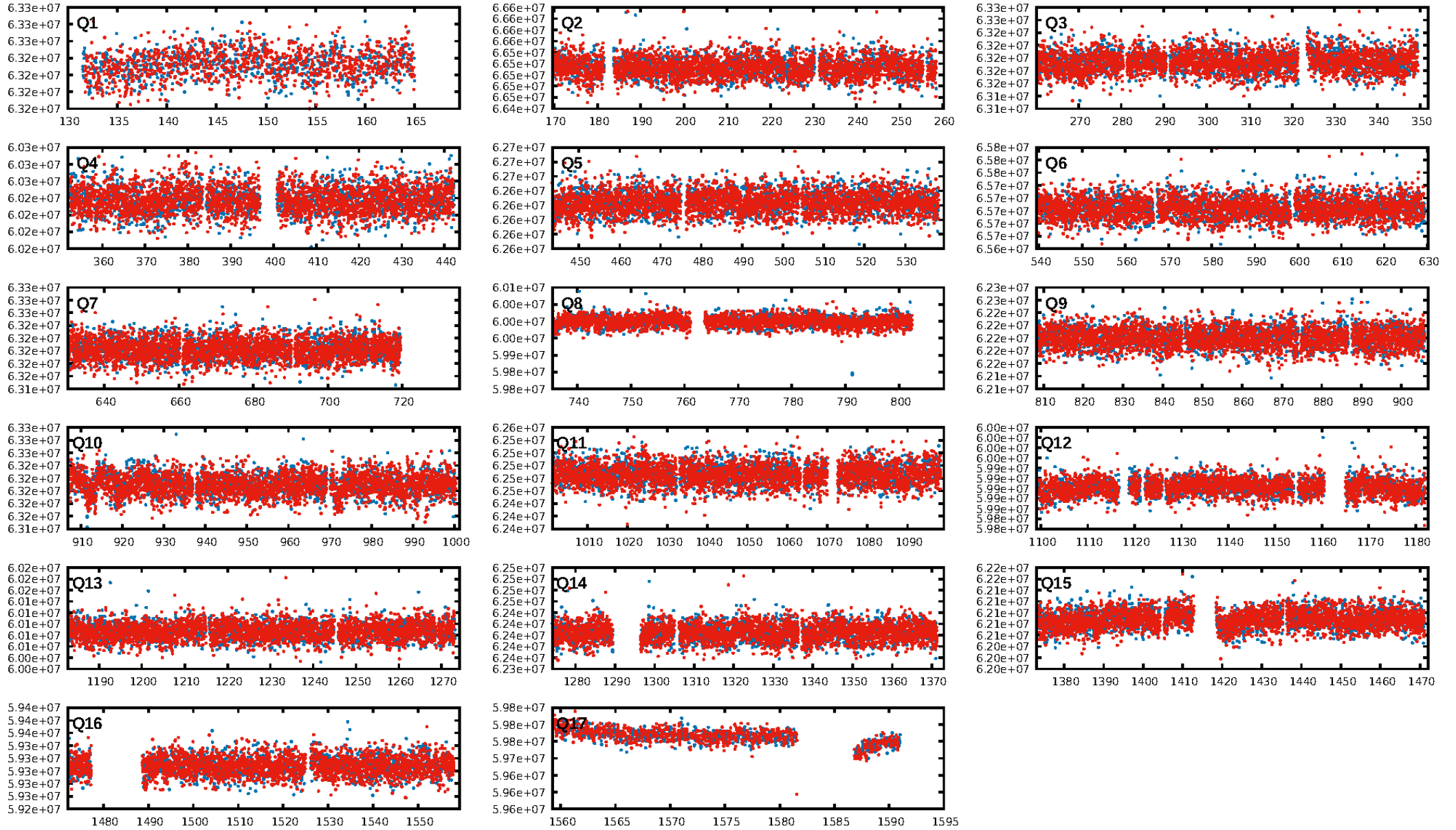
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [13.81σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.50e-02
RollingBand-fgt: 1.00 [2267/2267]
GhostDiagnostic-chr: 0.03597
Centroid-sig: 0.0%
Centroid-so: 4.903 arcsec [2.23σ]
OotOffset-rm: 0.752 arcsec [1.12σ]
KicOffset-rm: 0.990 arcsec [1.47σ]
OotOffset-st: 3/4/4/2 [13]
KicOffset-st: 3/4/4/2 [13]
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DiffImageOverlap-fno: 1.00 [17/17]

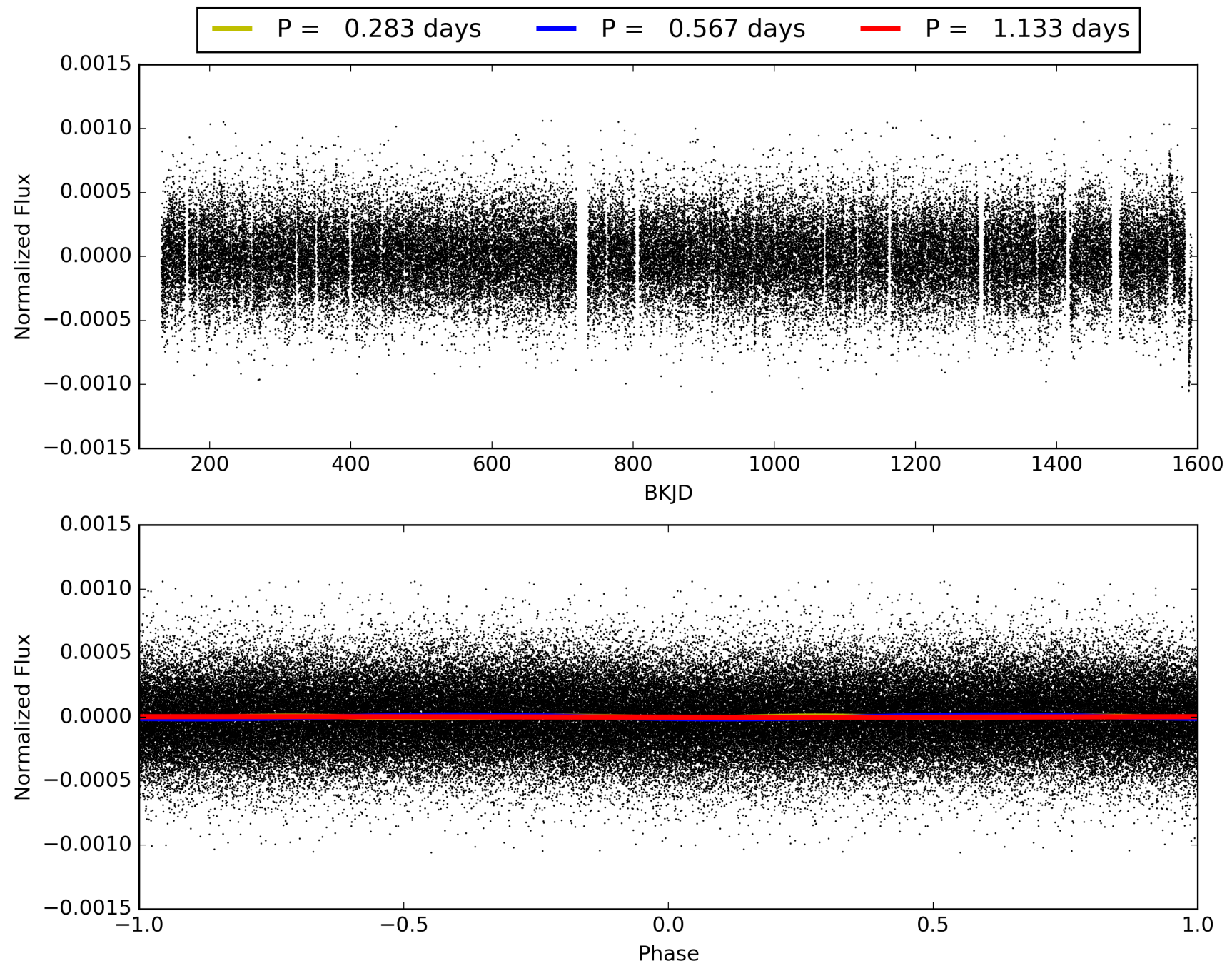
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007031126-01, PDC Light Curves

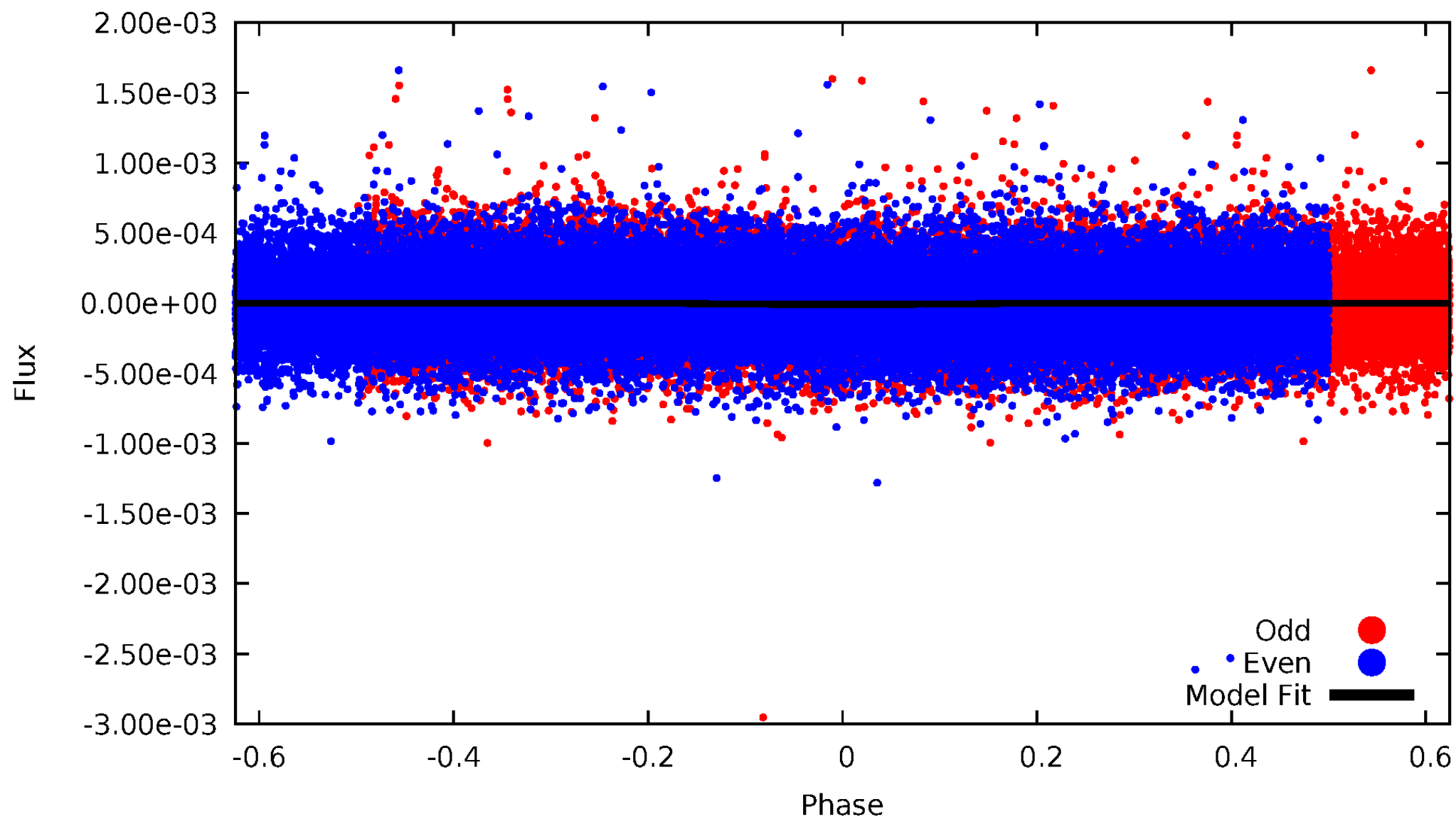


TCE 007031126-01



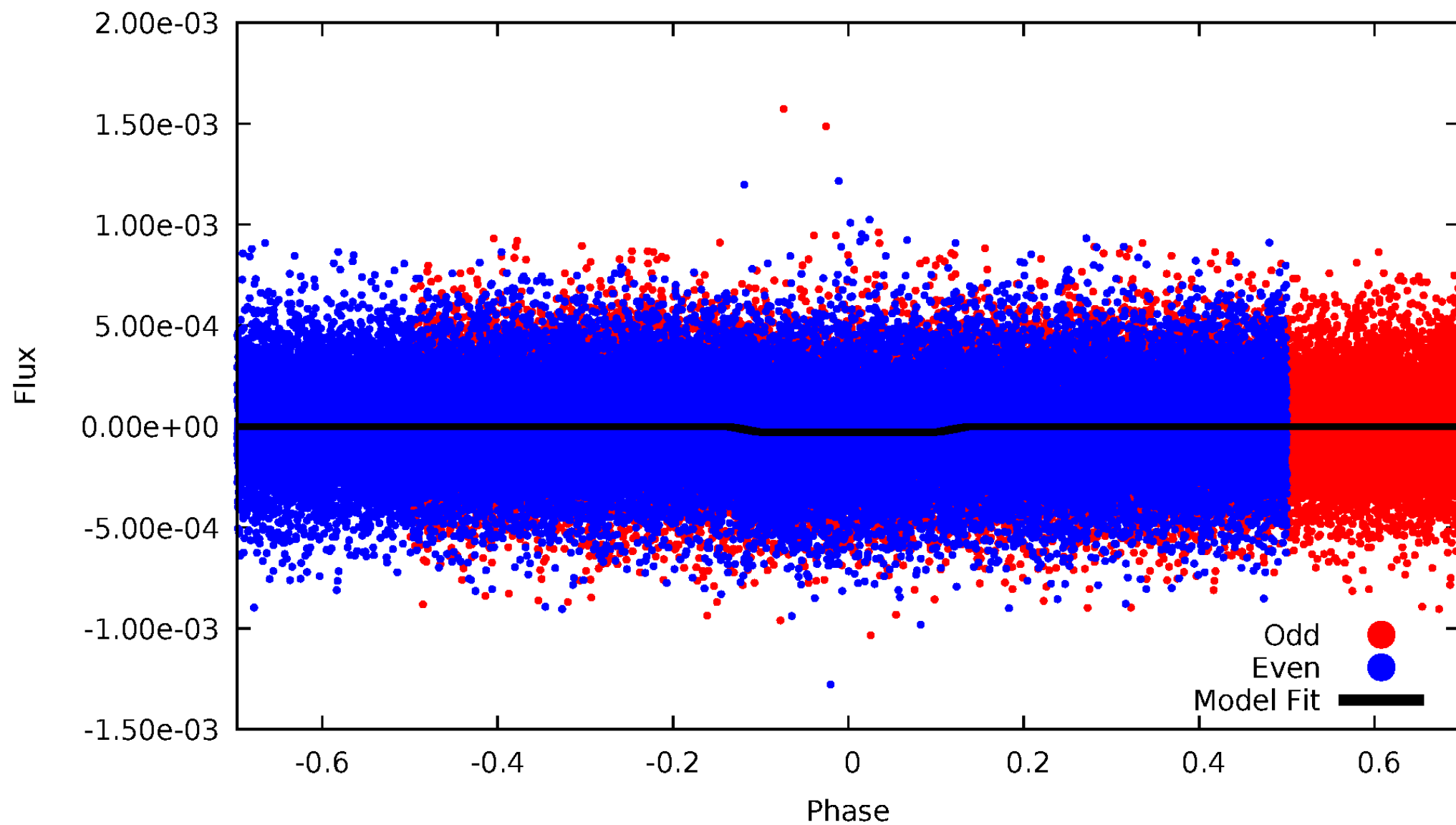
DV Odd/Even

TCE 007031126-01



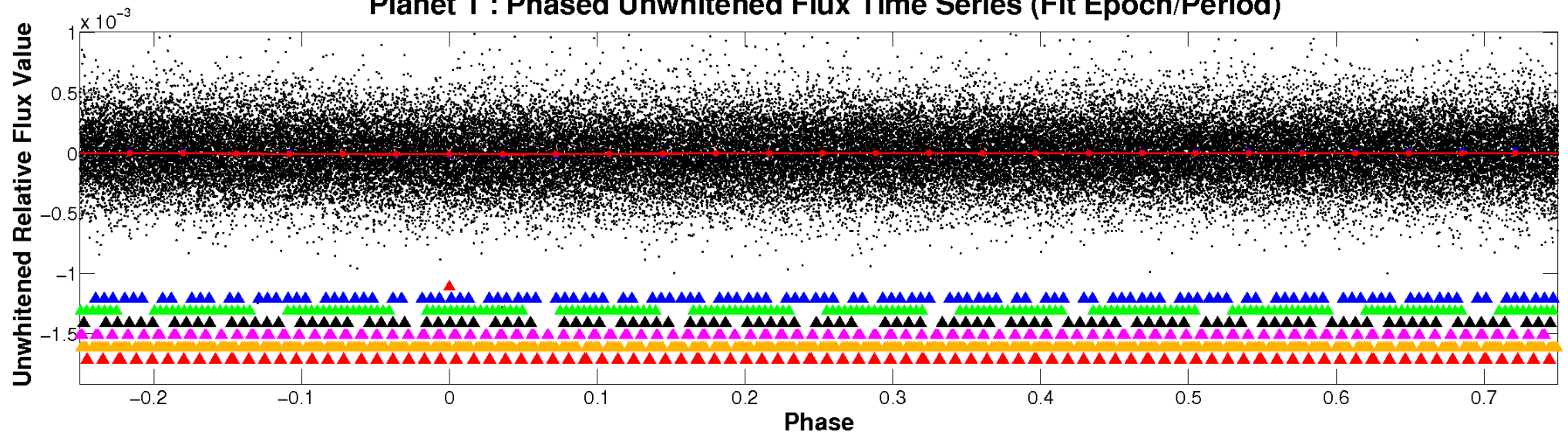
ALT Odd/Even

TCE 007031126-01

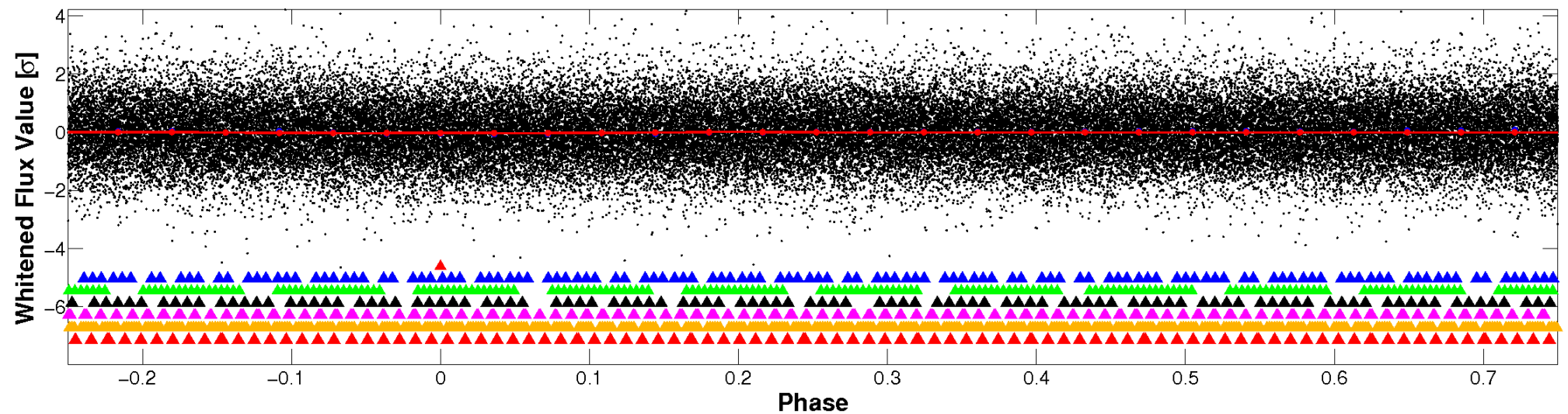


Non-Whitened Vs. Whitened Light Curve

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

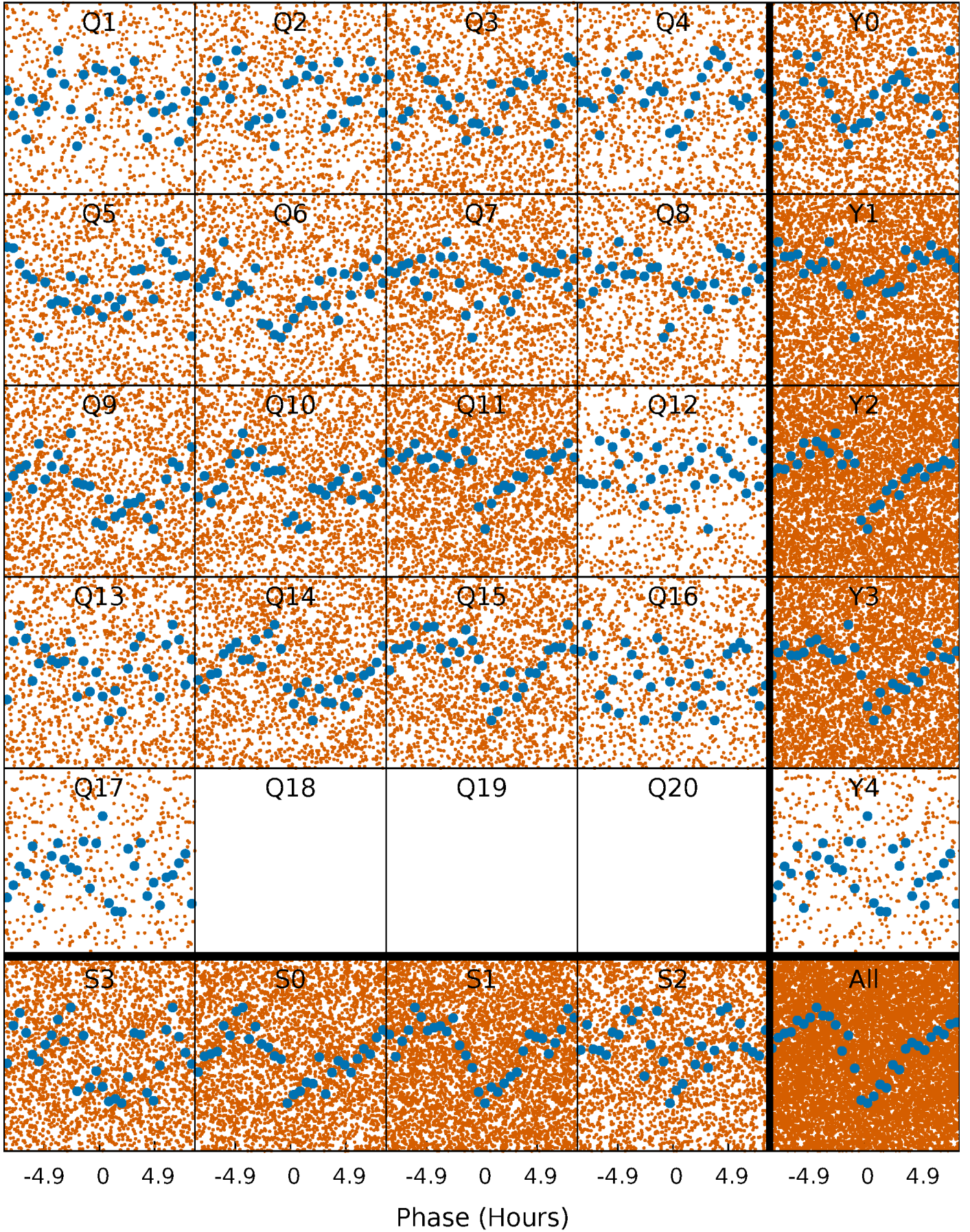


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



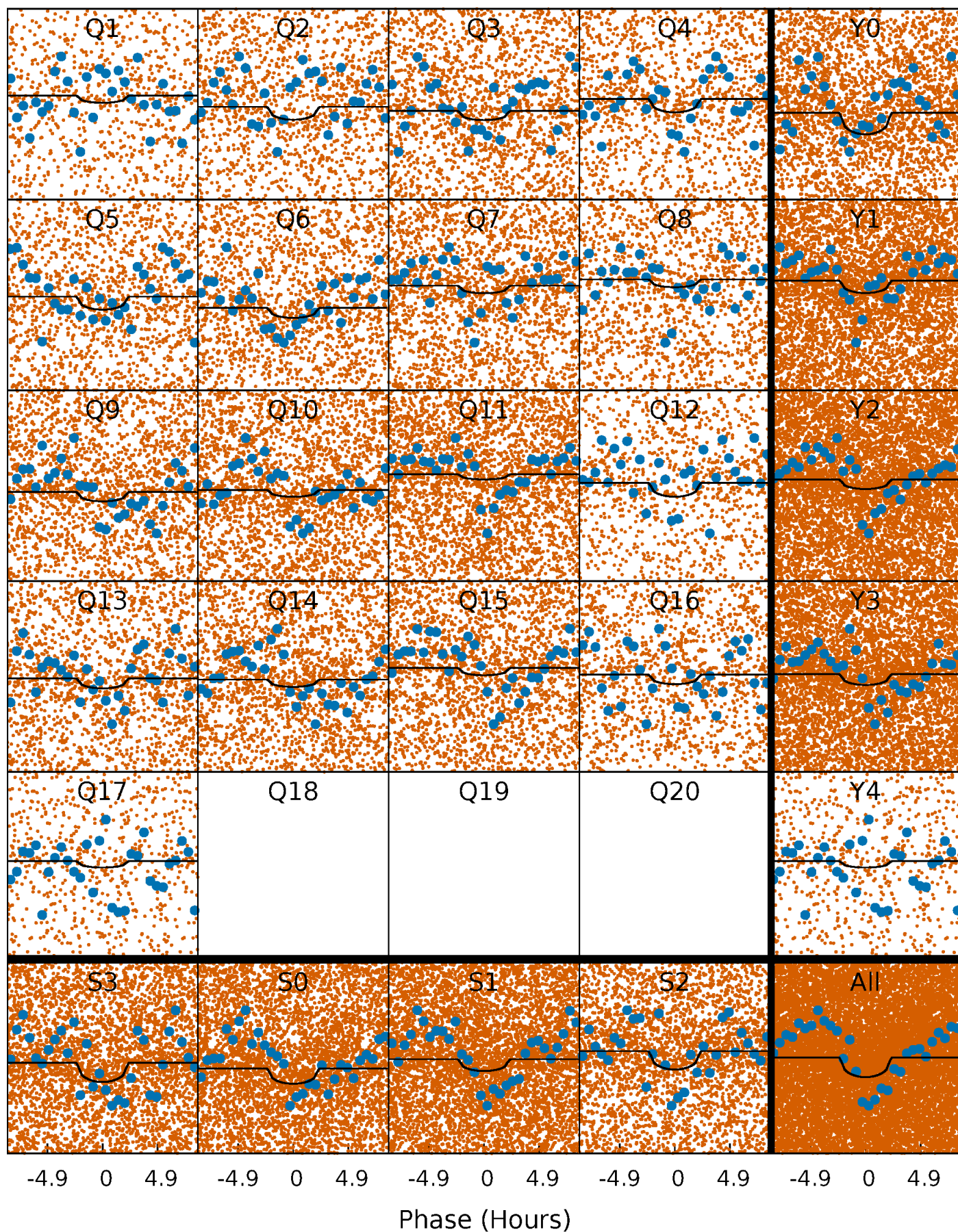
PDC Quarter-Phased Transit Curves

TCE 007031126-01 P= 0.566742 Days $T_0=131.882120$ (BKJD)



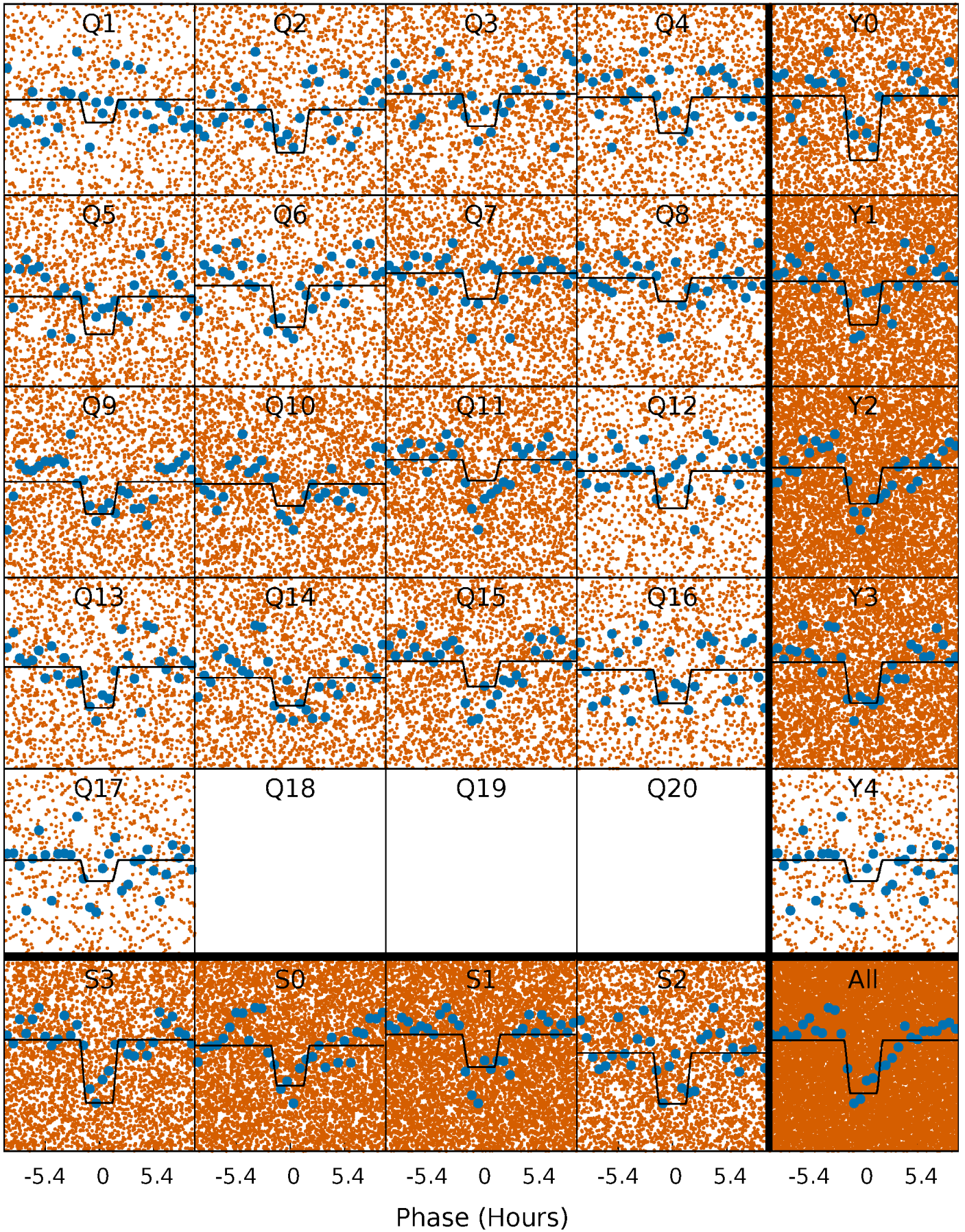
DV Quarter-Phased Transit Curves

TCE 007031126-01 P= 0.566742 Days $T_0=131.882120$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

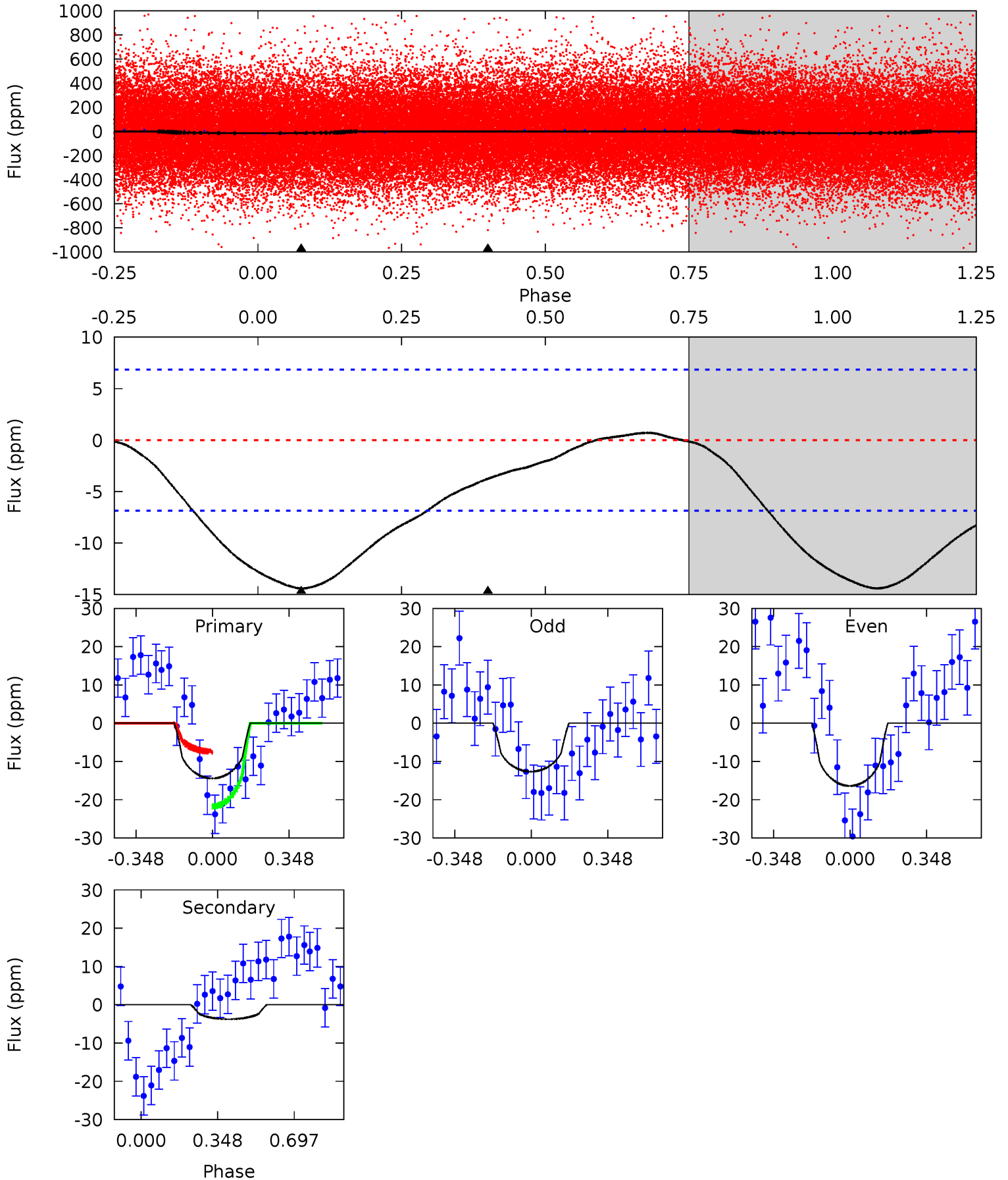
TCE 007031126-01 P= 0.566798 Days $T_0=131.824615$ (BKJD)



DV Model-Shift Uniqueness Test

007031126-01, P = 0.566742 Days, E = 131.315378 Days

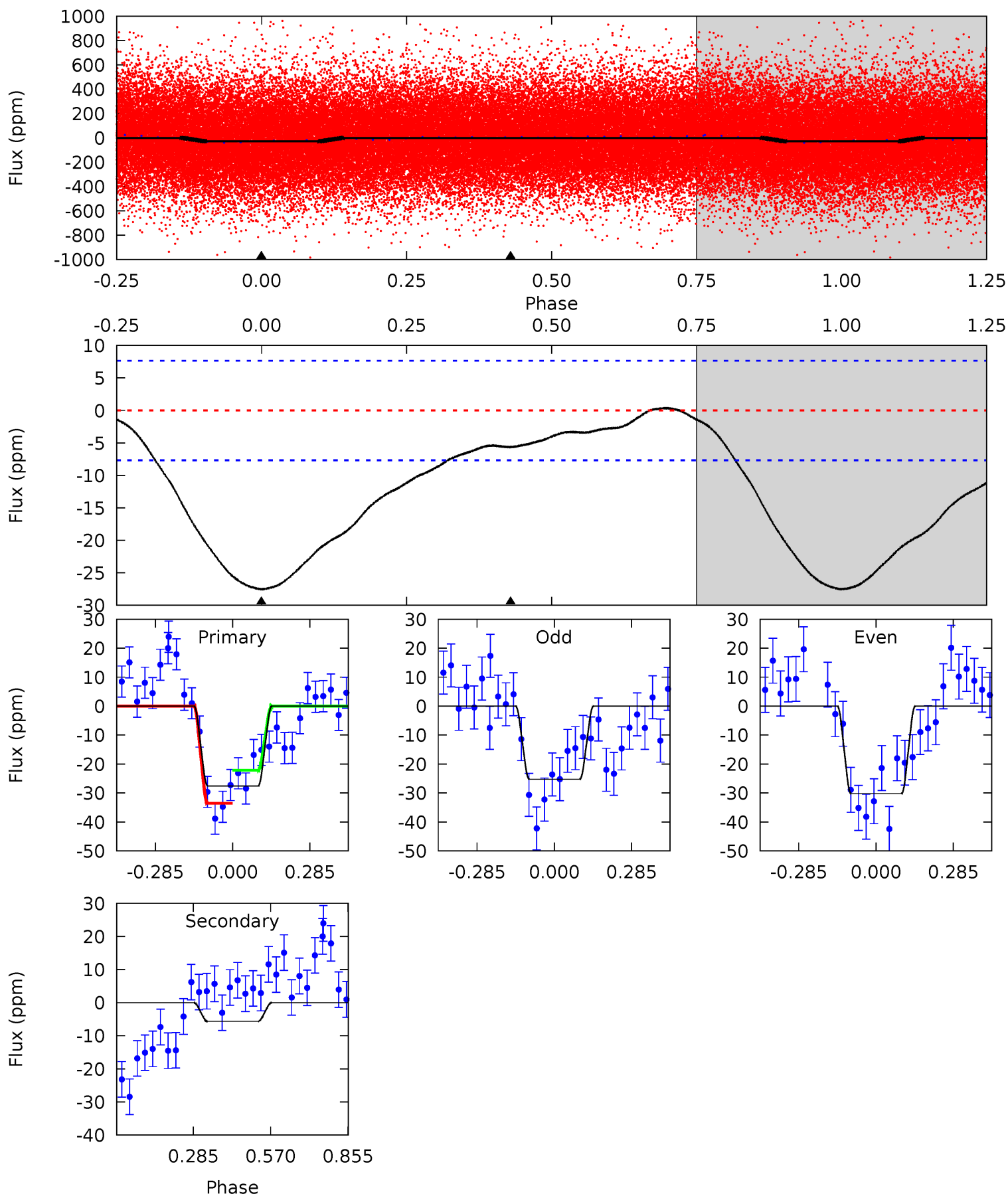
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.03	2.36	0	0	4.30	0.94	0.28	9.03	9.03	2.36	2.36	1.18	1.01	0.05	4.58



Alt Model-Shift Uniqueness Test

007031126-01, P = 0.566798 Days, E = 131.257817 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.6	3.21	0	0	4.34	1.07	0.41	15.6	15.6	3.21	3.21	1.40	0.93	0.01	3.21



Stellar Parameters For KIC 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-01 / KOI 7573.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-4 ± 2	$1.22^{+1.46}_{-0.86}$	3804^{+670}_{-751}	-2734^{+7625}_{-942}	$0.233^{+2.343}_{-0.193}$
Alt.	-6 ± 2	$1.43^{+1.77}_{-0.97}$	3844^{+590}_{-762}	-2637^{+7386}_{-1032}	$0.246^{+2.331}_{-0.201}$

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

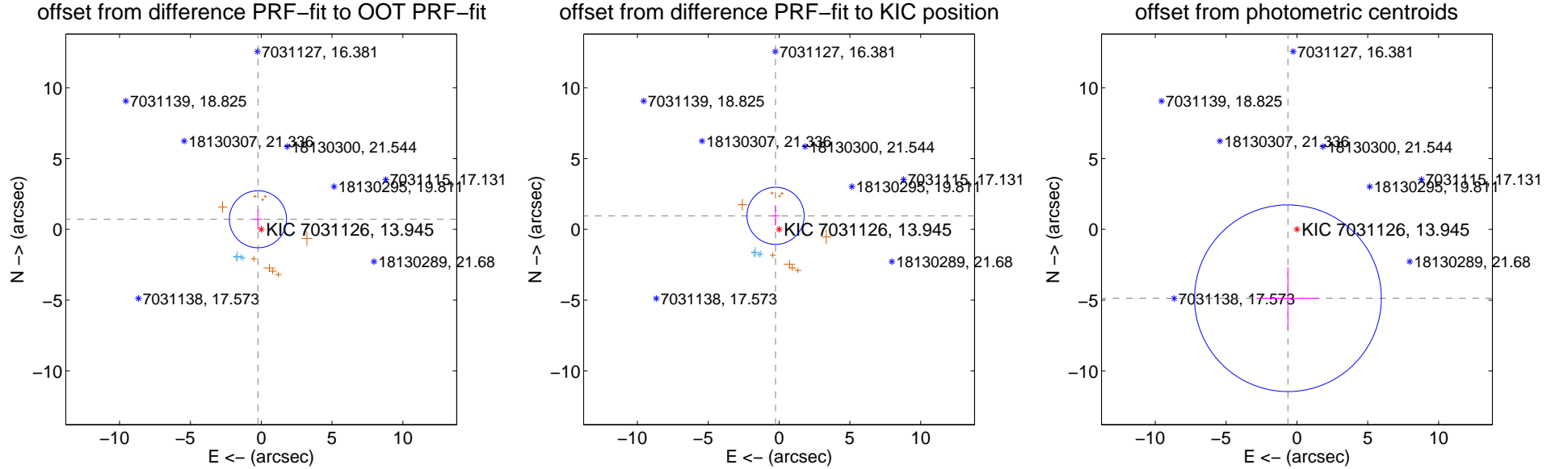
DV Centroid Data

Supplemental centroid analysis for 007031126-01. Kepler magnitude: 13.95. Transit SNR 3.71

There are 4 quarters with good PRF difference image offsets

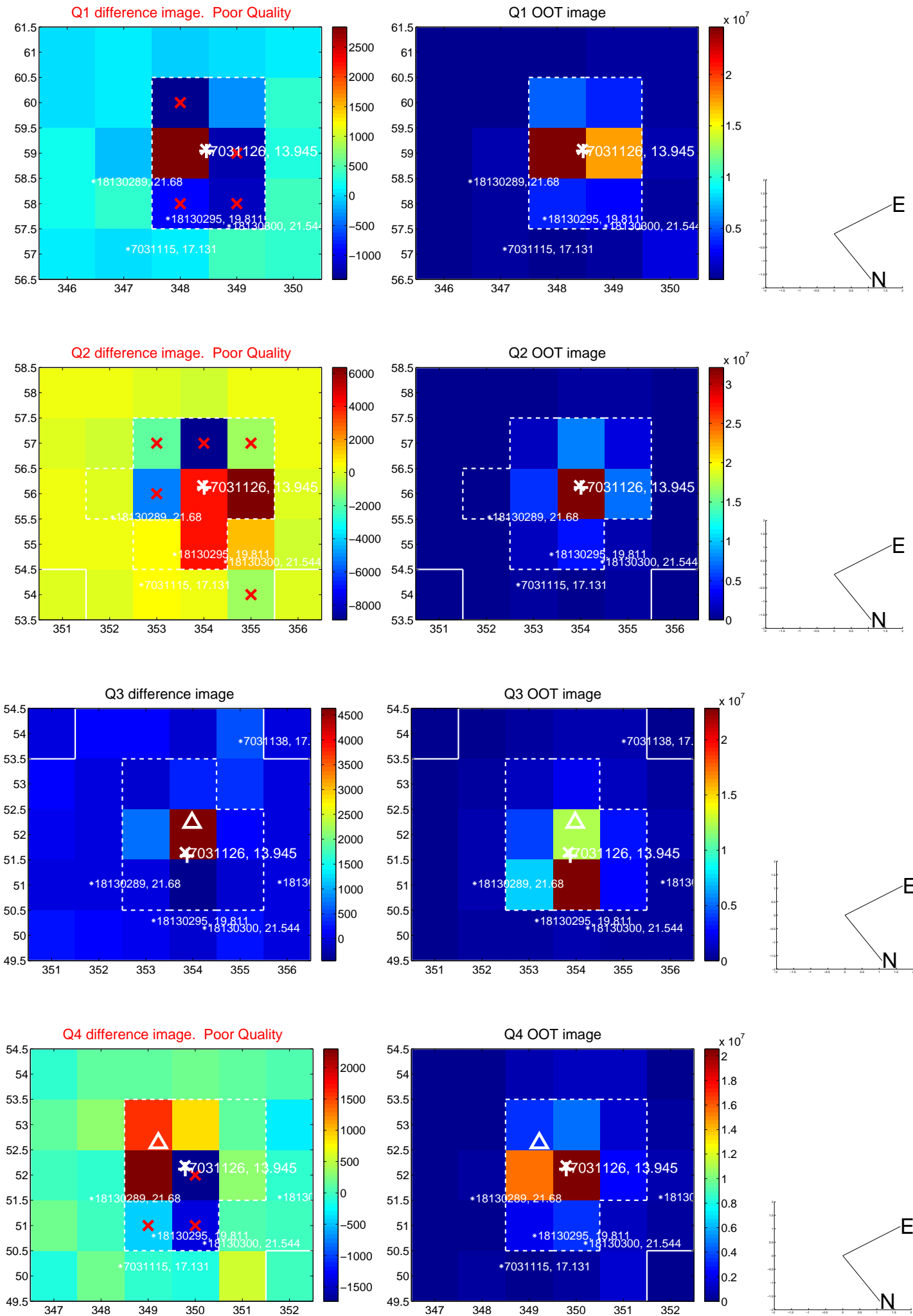
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.752 ± 0.672	1.12	0.231 ± 0.291	0.716 ± 0.699
PRF-fit source offset from KIC position	0.990 ± 0.673	1.47	0.249 ± 0.291	0.958 ± 0.691
photometric centroid source offset	4.90 ± 2.20	2.23	0.63 ± 2.22	-4.86 ± 2.20

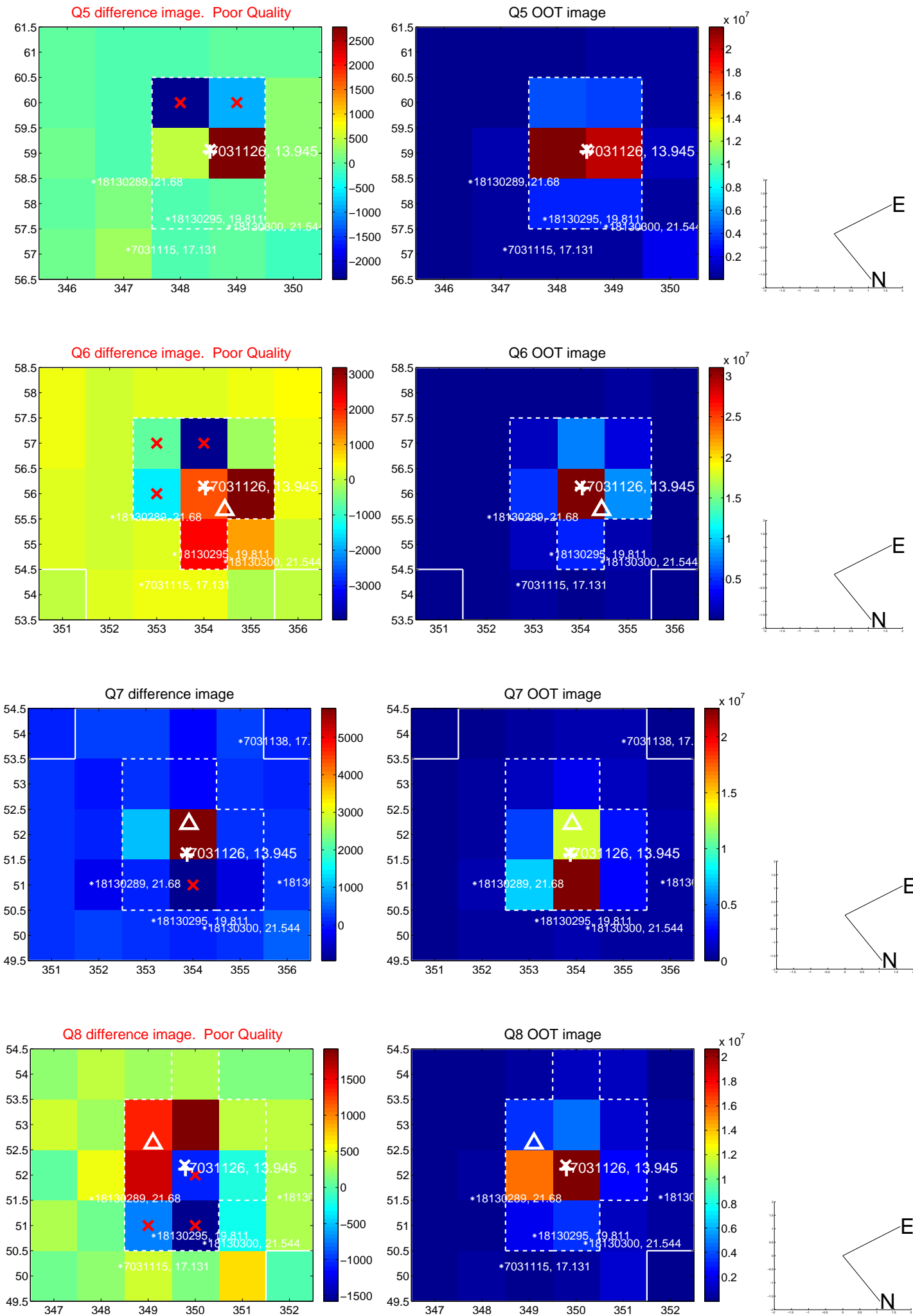


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

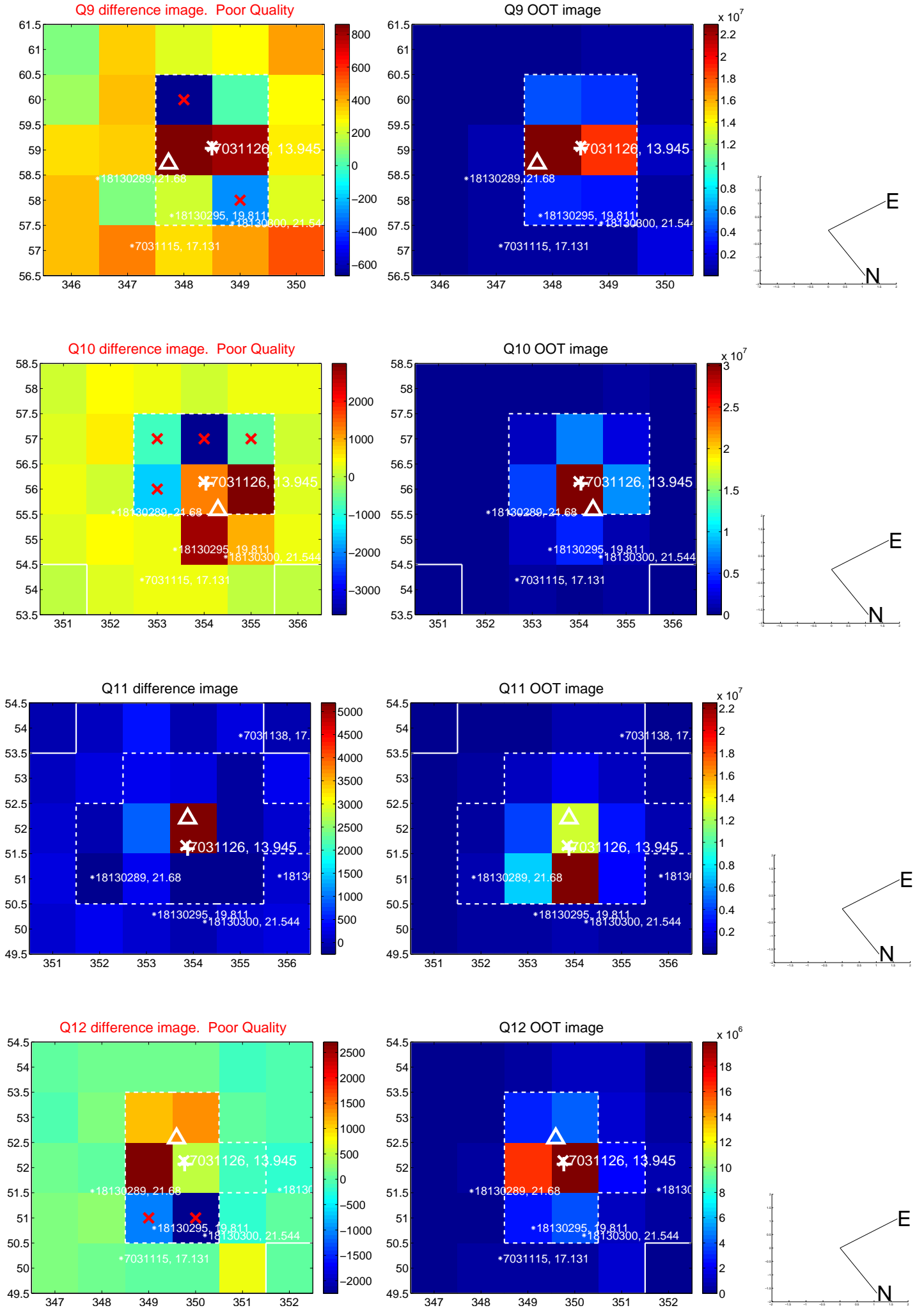
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



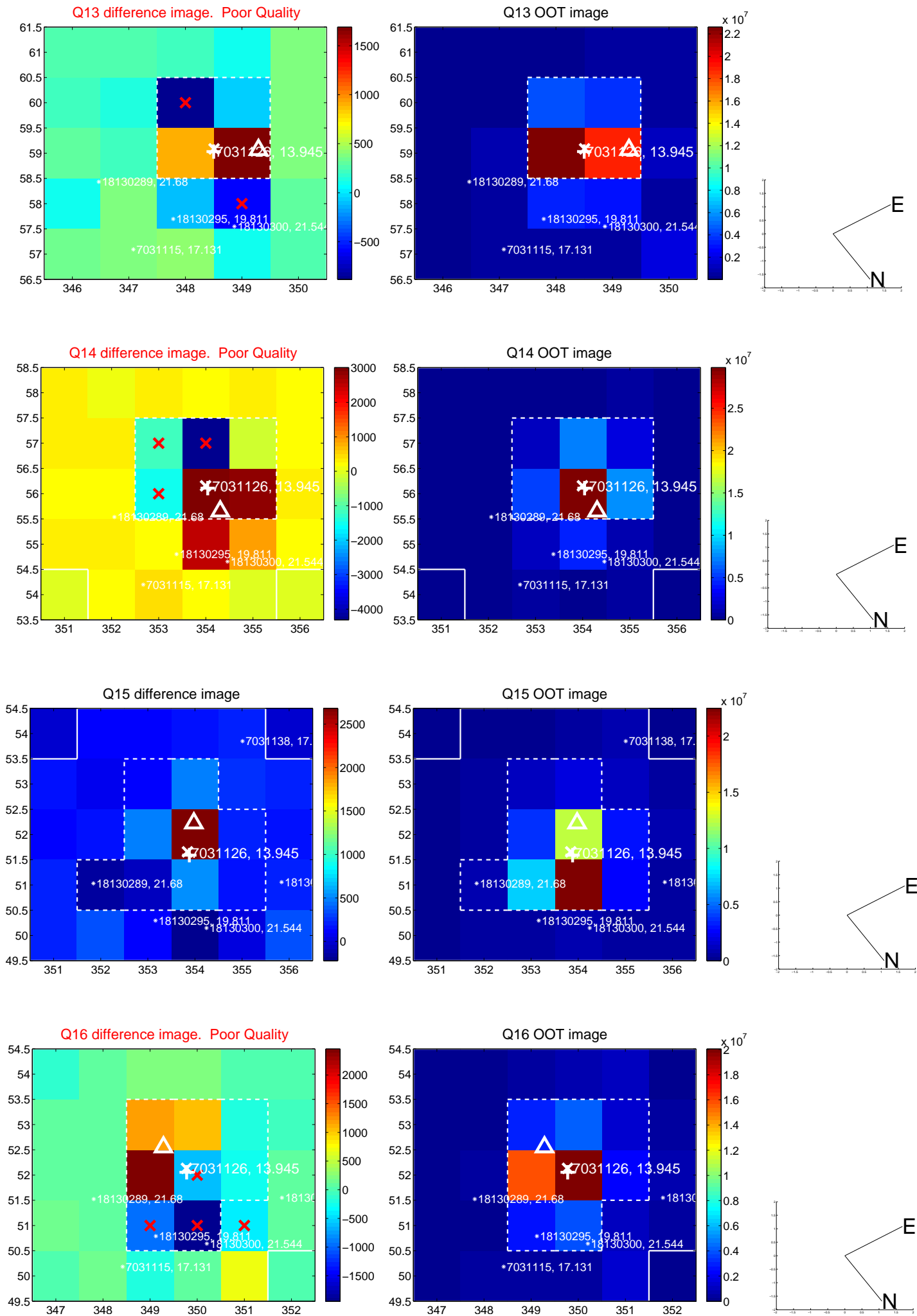
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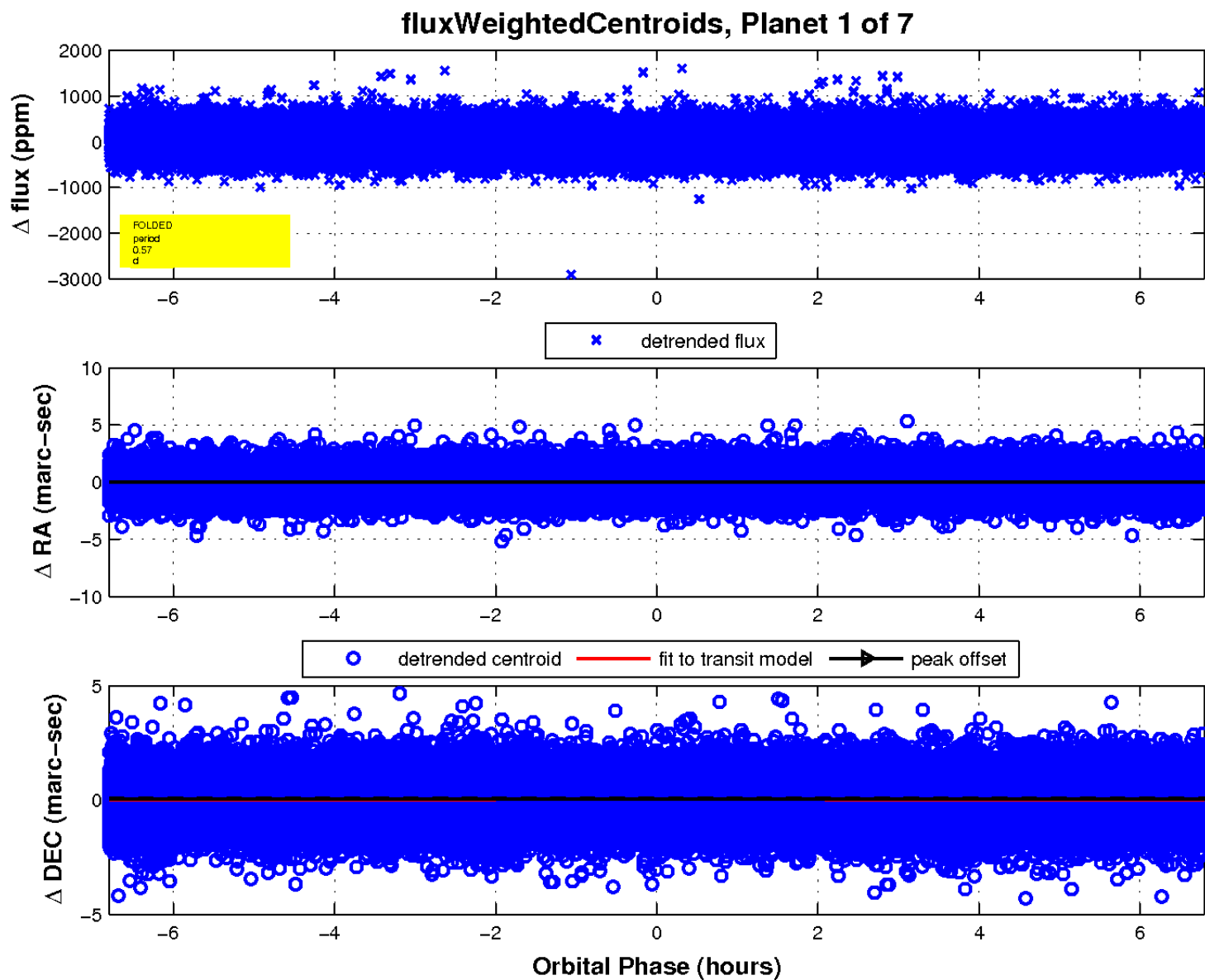
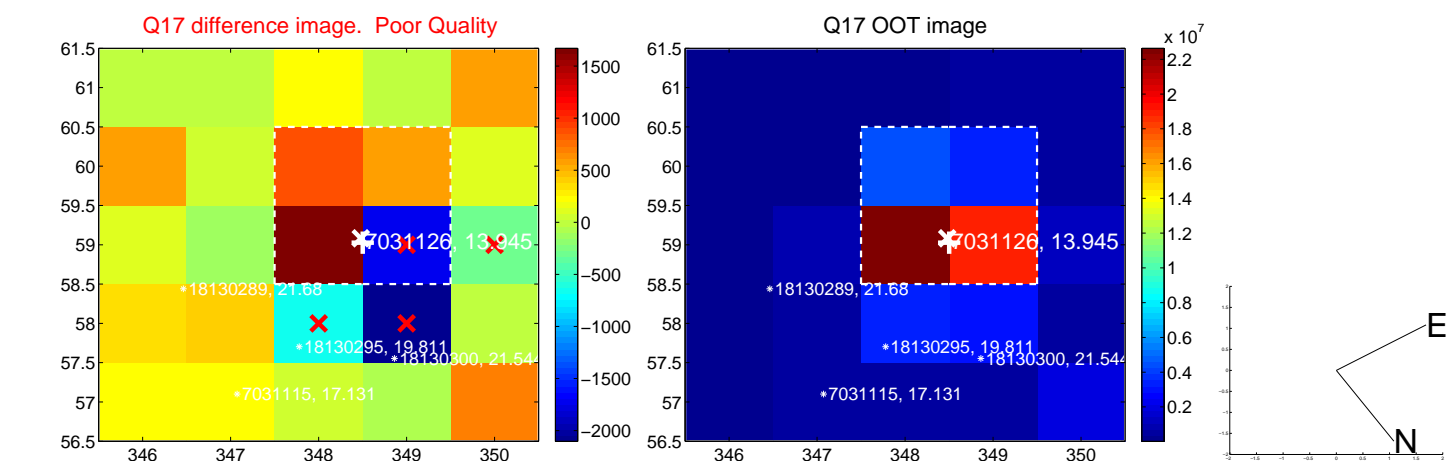
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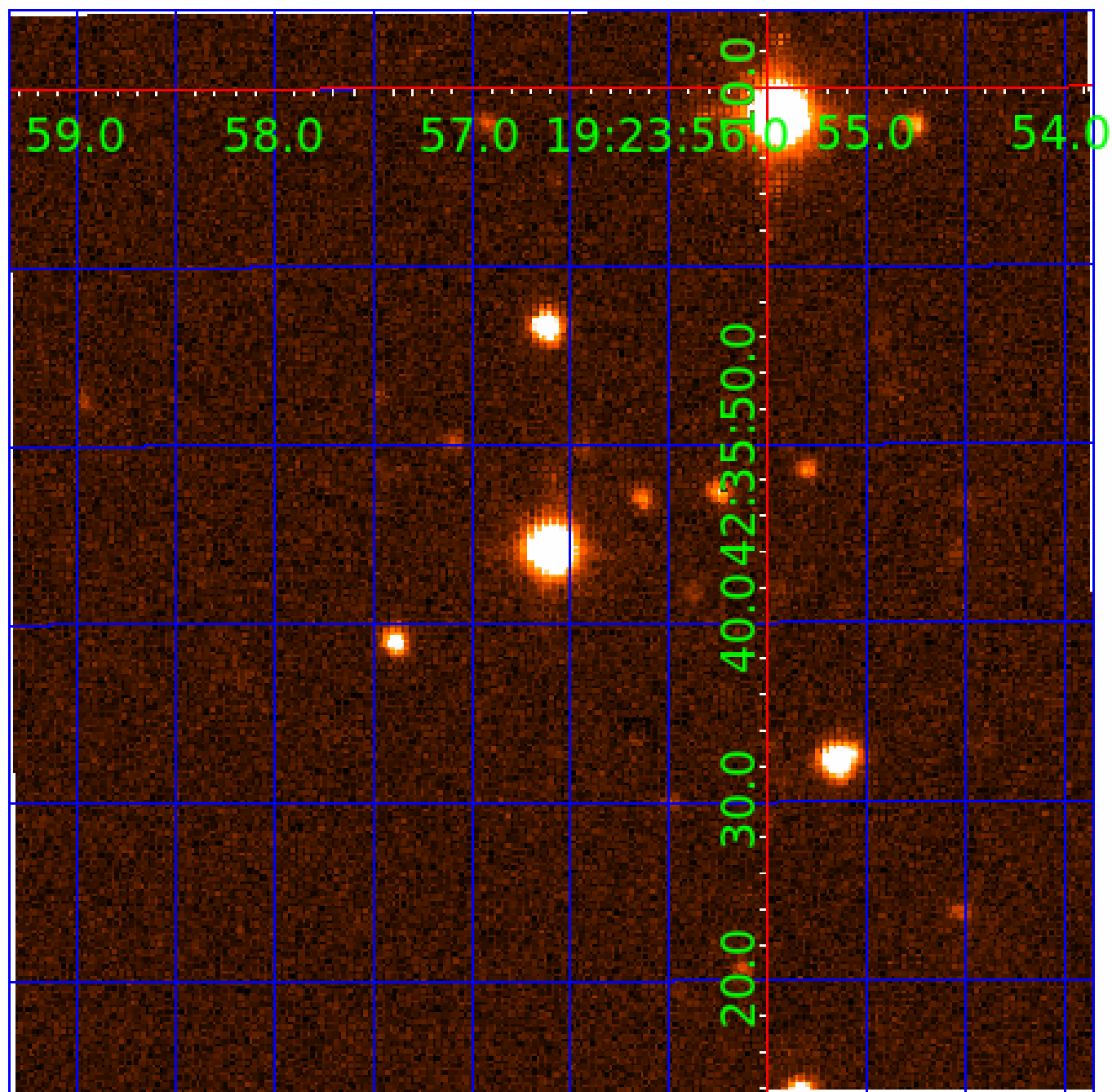


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007031126

Q1-17 DR25 TCE Parameters

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007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_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.

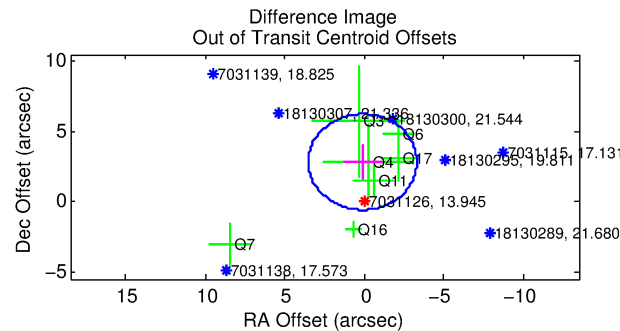
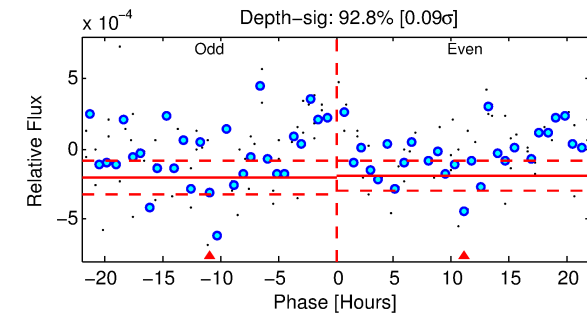
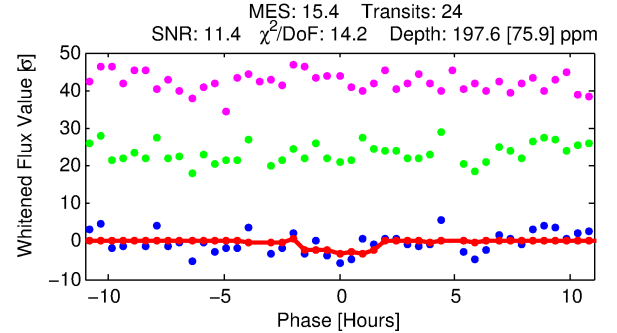
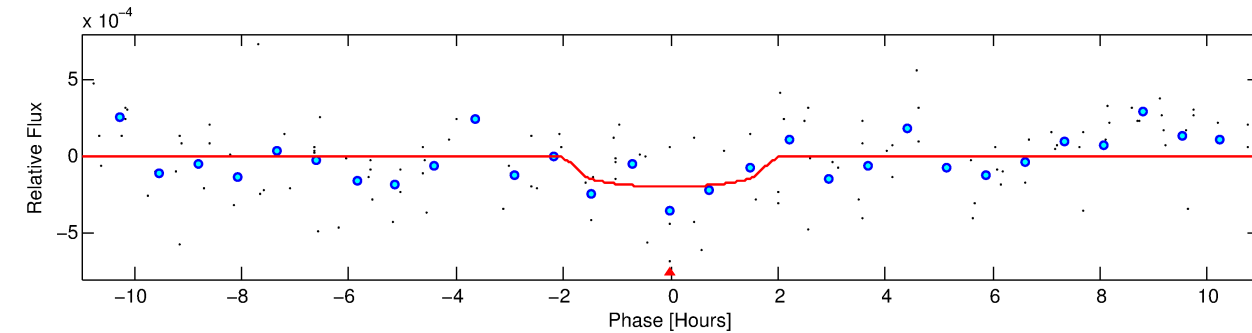
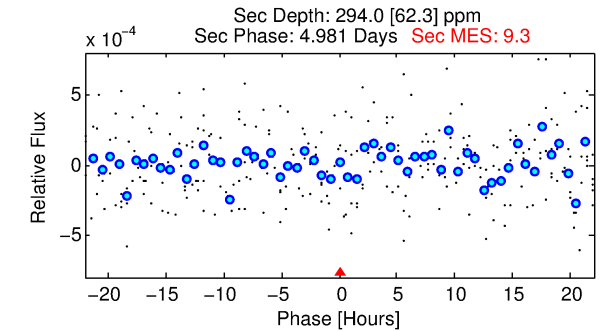
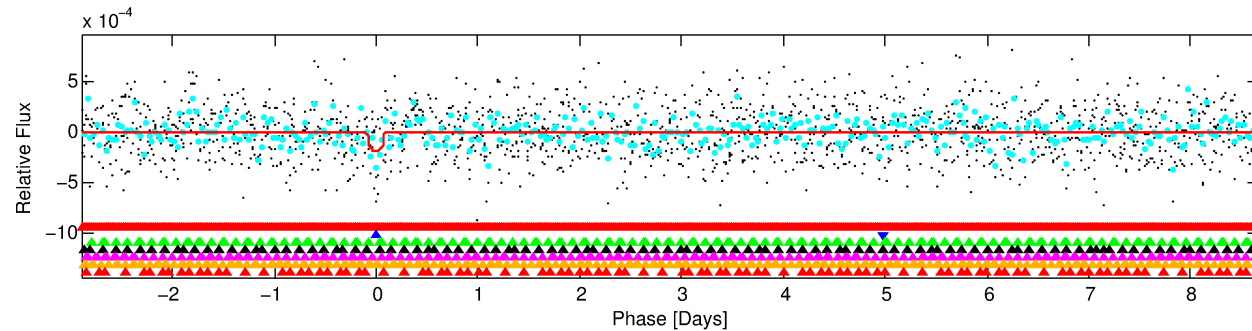
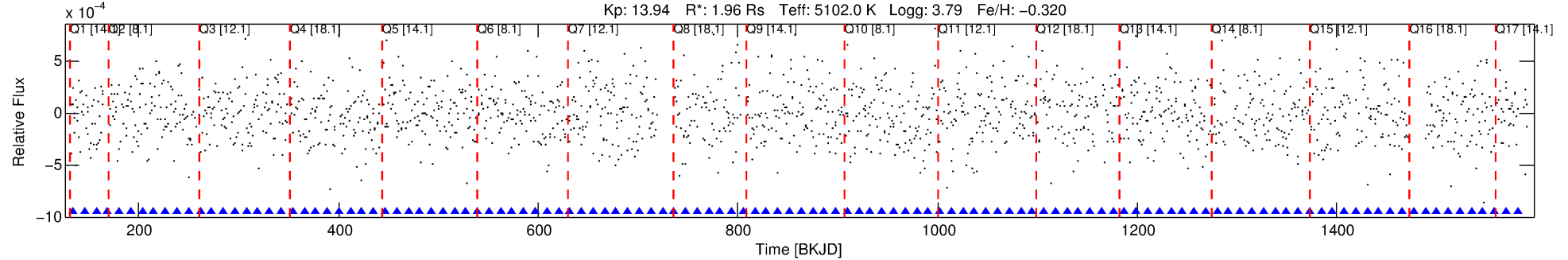
Ephemeris Match Information For 007031126-02

No Significant Match Found

DV One-Page Summary

KIC: 7031126 Candidate: 2 of 7 Period: 11.574 d
KOI: K07573 Corr: No Ephemeris Match

Kp: 13.94 R*: 1.96 Rs Teff: 5102.0 K Logg: 3.79 Fe/H: -0.320



DV Fit Results:

Period = 11.57405 [0.00052] d
Epoch = 134.2850 [0.0443] BKJD
Rp/R* = 0.0127 [0.0986]
a/R* = 23.39 [675.64]
b = 0.30 [89.01]
Seff = 257.55 [344.52]
Teq = 1022 [342] K
Rp = 2.72 [21.18] Re
a = 0.0952 [0.0731] AU
Ag = 197.98 [3081.62] [0.06σ]
Teffp = 5924 [22969] K [0.21σ]

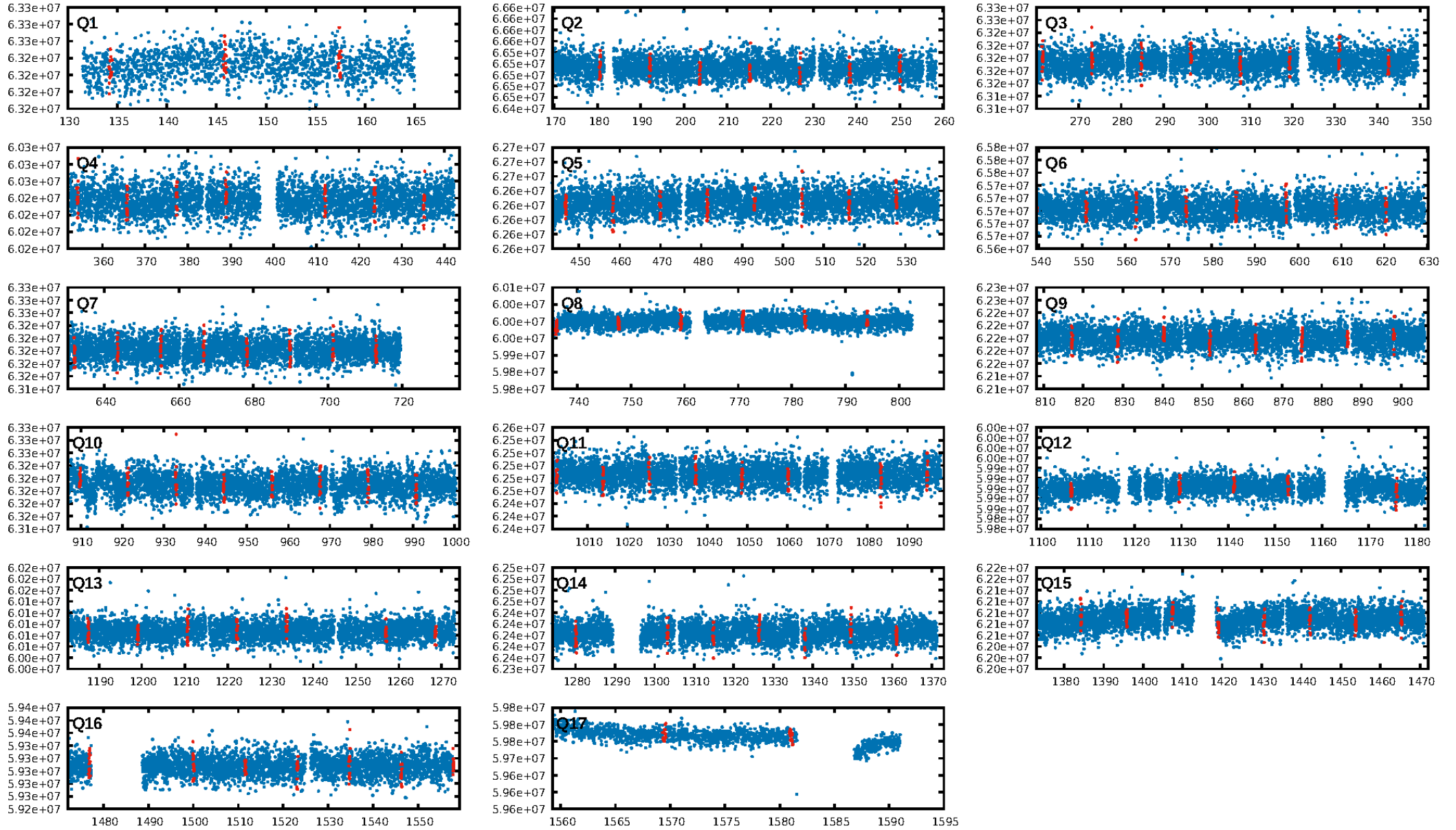
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [23.65σ]
LongPeriod-sig: 100.0% [16.05σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.6%
Bootstrap-pfa: 1.32e-07
RollingBand-fgt: 1.00 [23/23]
GhostDiagnostic-chr: -1.424
Centroid-sig: 46.6%
Centroid-so: 0.589 arcsec [1.28σ]
OotOffset-rm: 2.836 arcsec [2.49σ]
KicOffset-rm: 3.099 arcsec [2.82σ]
OotOffset-st: 1/3/2/1 [7]
KicOffset-st: 1/3/2/1 [7]
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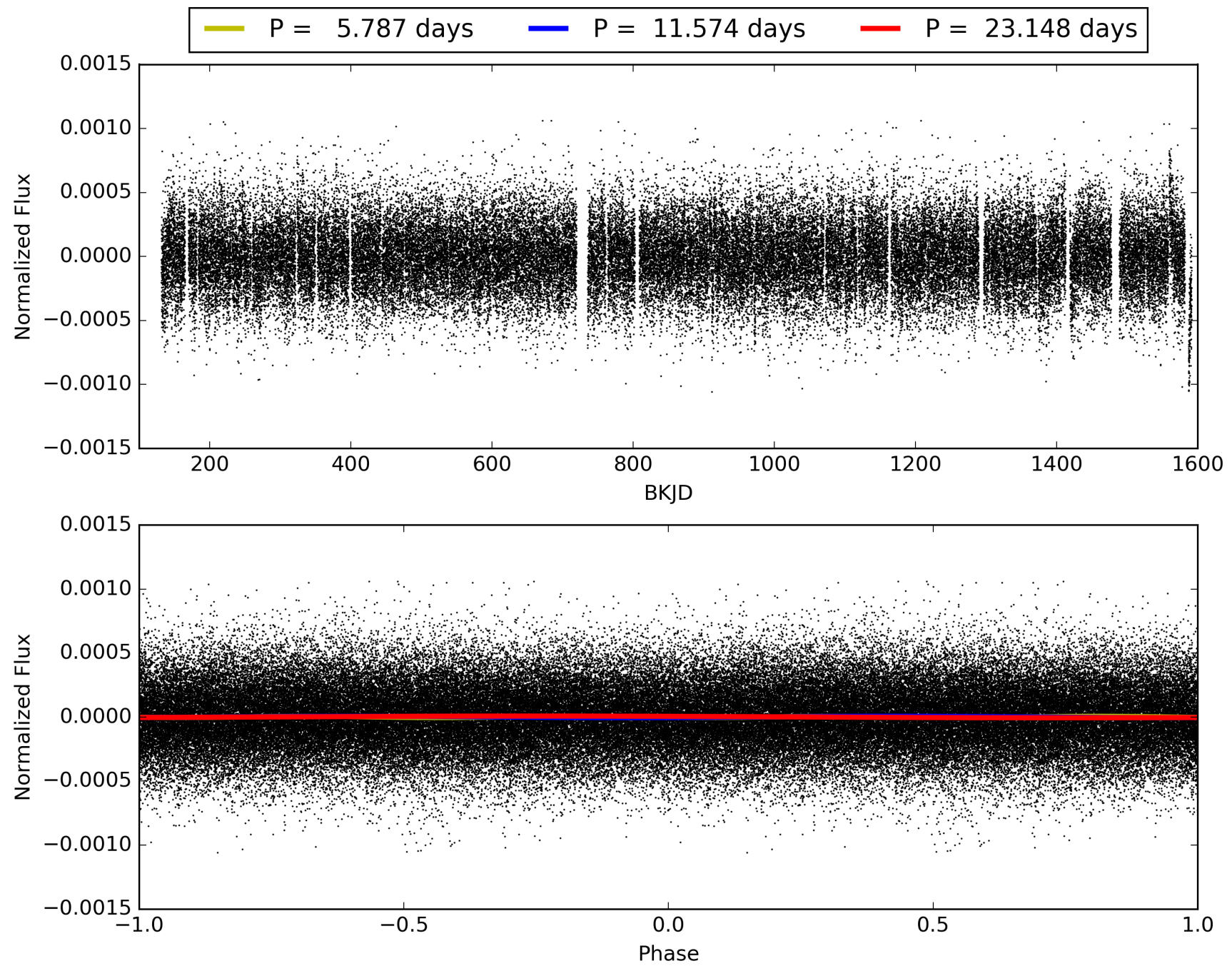
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TCE 007031126-02, PDC Light Curves

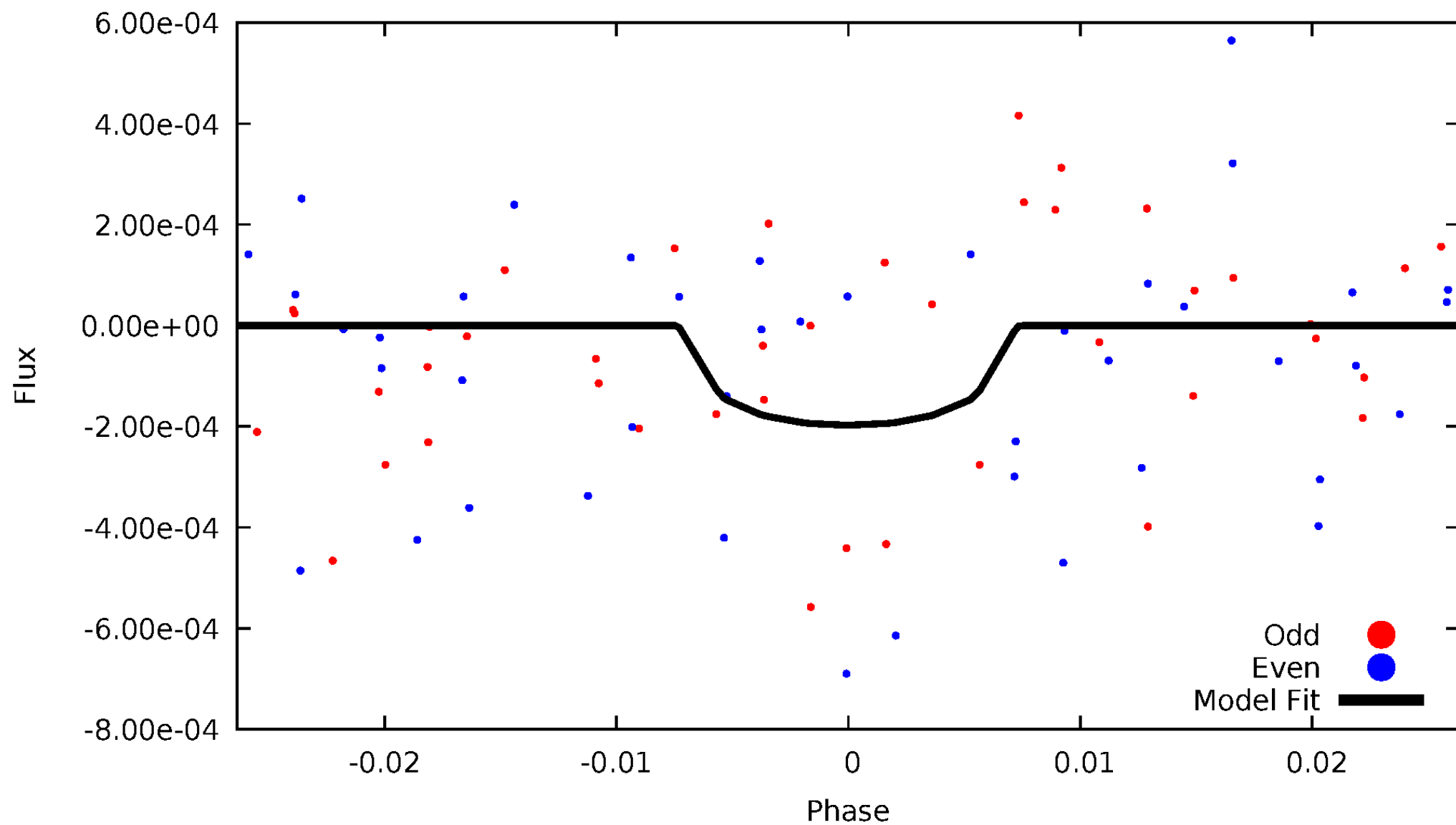


TCE 007031126-02



DV Odd/Even

TCE 007031126-02

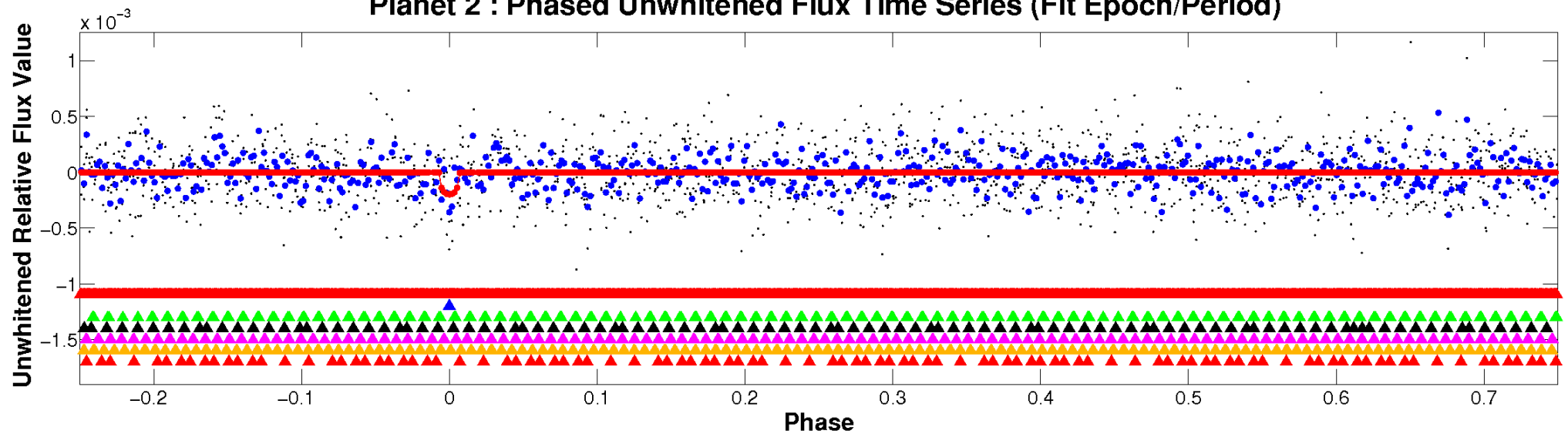


ALT Odd/Even

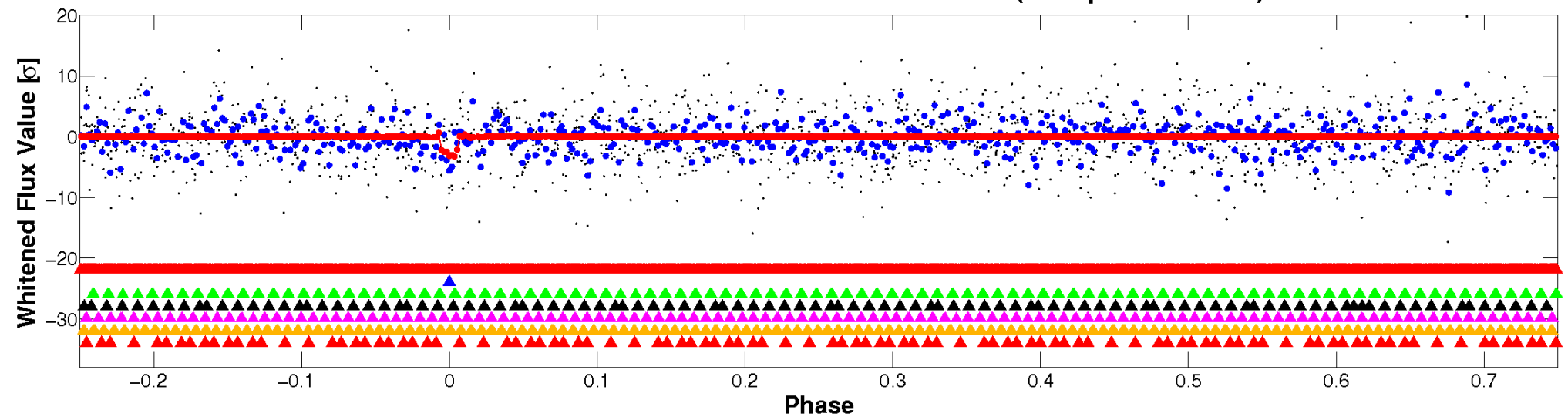
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

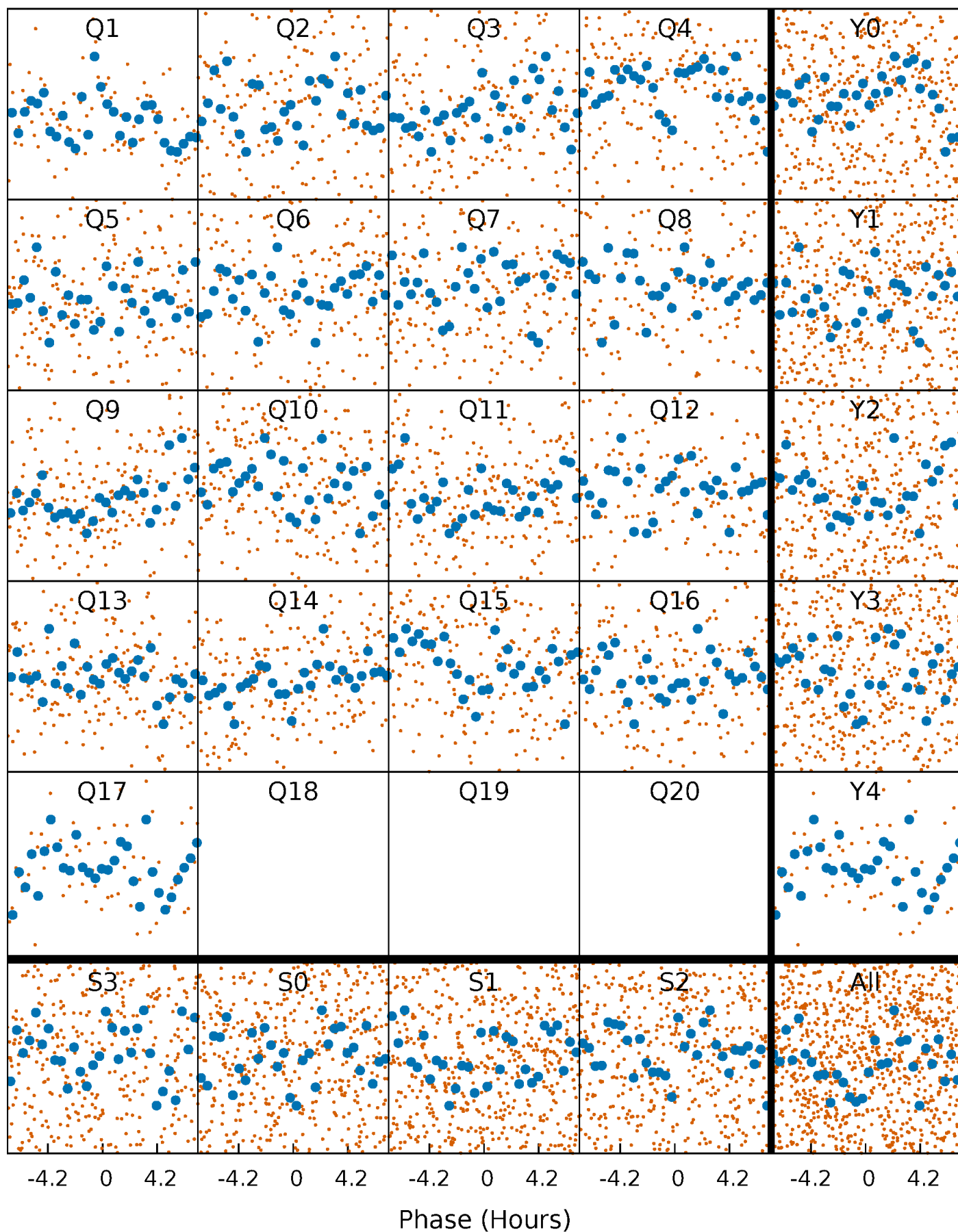


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



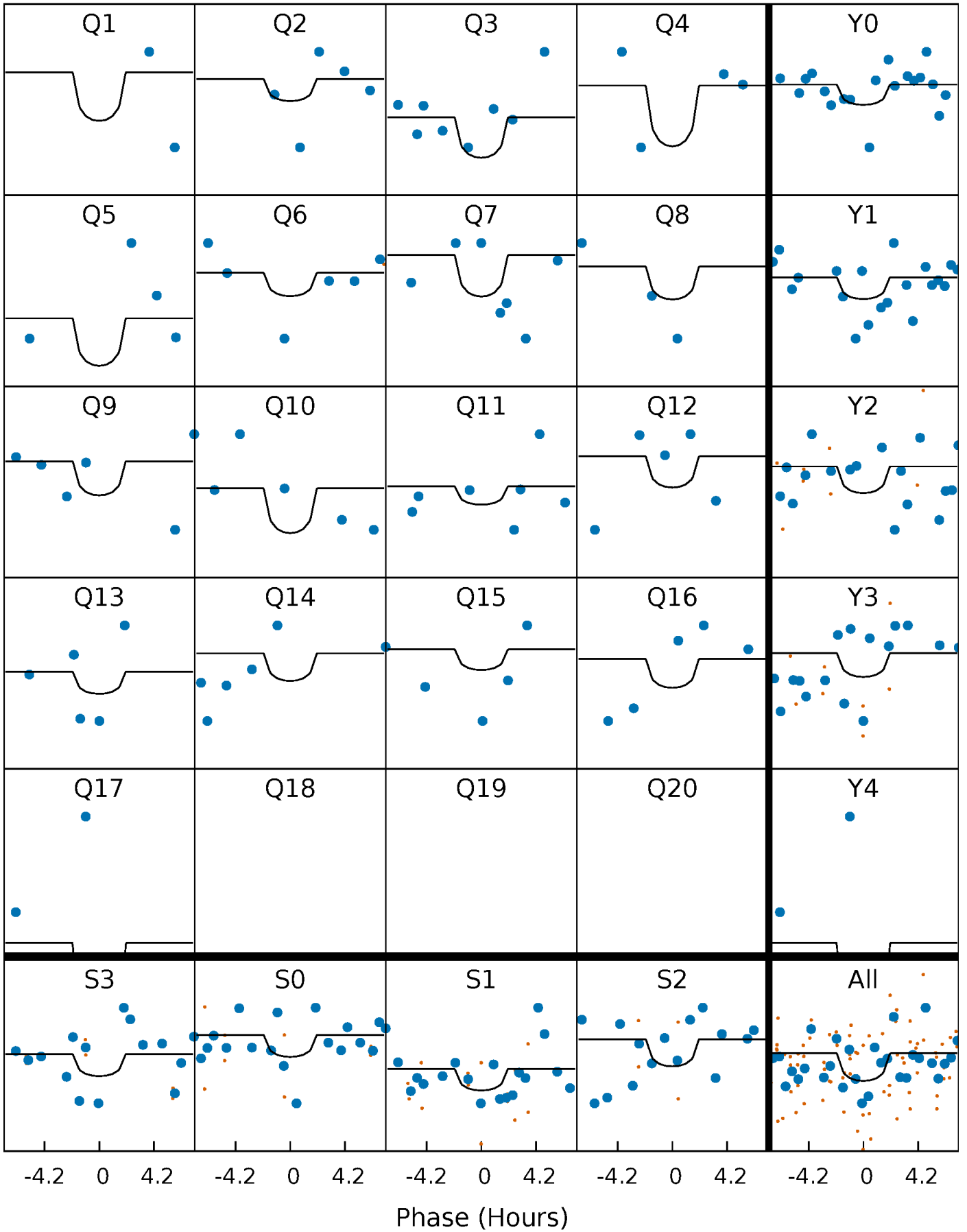
PDC Quarter-Phased Transit Curves

TCE 007031126-02 P= 11.574048 Days $T_0=134.284998$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007031126-02 P= 11.574048 Days $T_0=134.284998$ (BKJD)

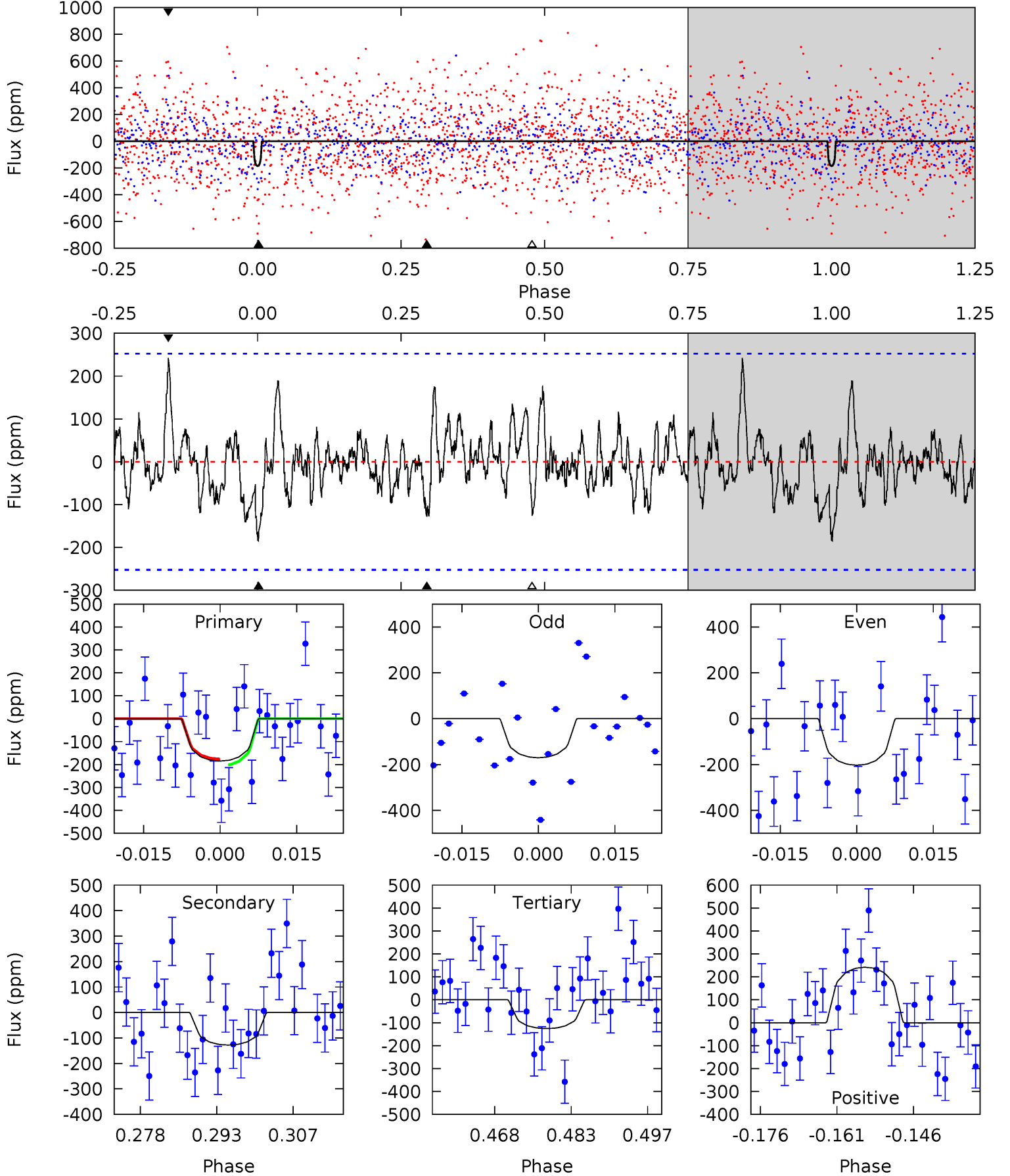


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007031126-02, P = 11.574048 Days, E = 122.710950 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.63	2.51	2.47	4.75	4.95	2.44	1.15	1.16	-1.12	0.04	-2.24	0.32	0	0.57	0.24



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-128 ± 51	$13.84^{+18.62}_{-10.15}$	1405^{+242}_{-263}	2699^{+1388}_{-618}	$3.182^{+41.051}_{-2.622}$
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 $A_{\text{obs}} \gg 1.0$

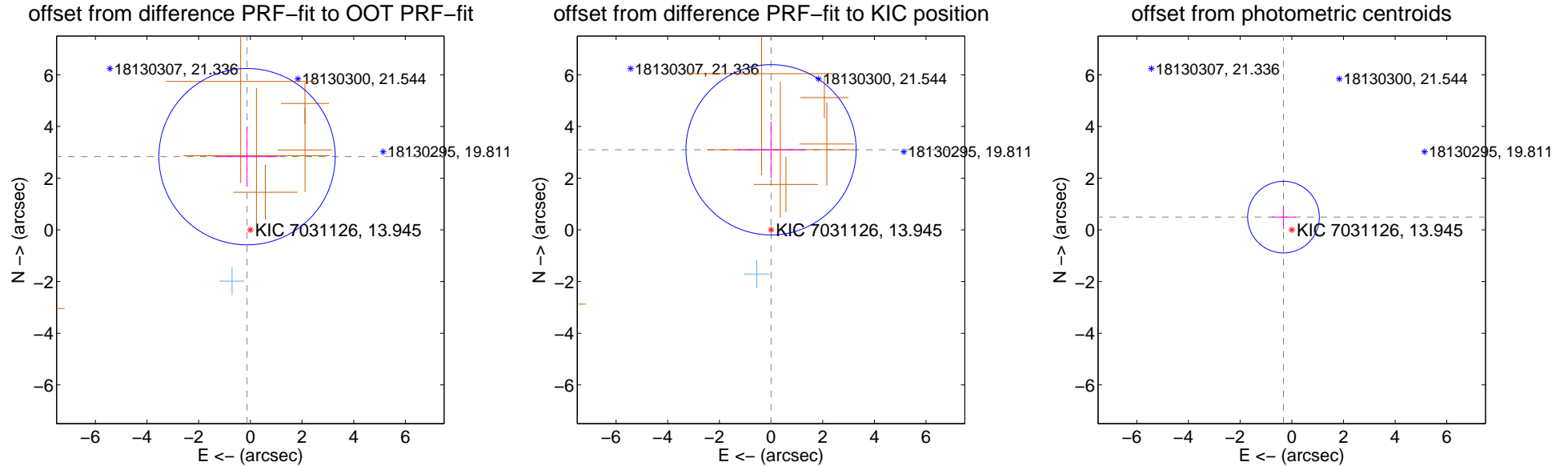
DV Centroid Data

Supplemental centroid analysis for 007031126-02. Kepler magnitude: 13.95. Transit SNR 11.43

There are 1 quarters with good PRF difference image offsets

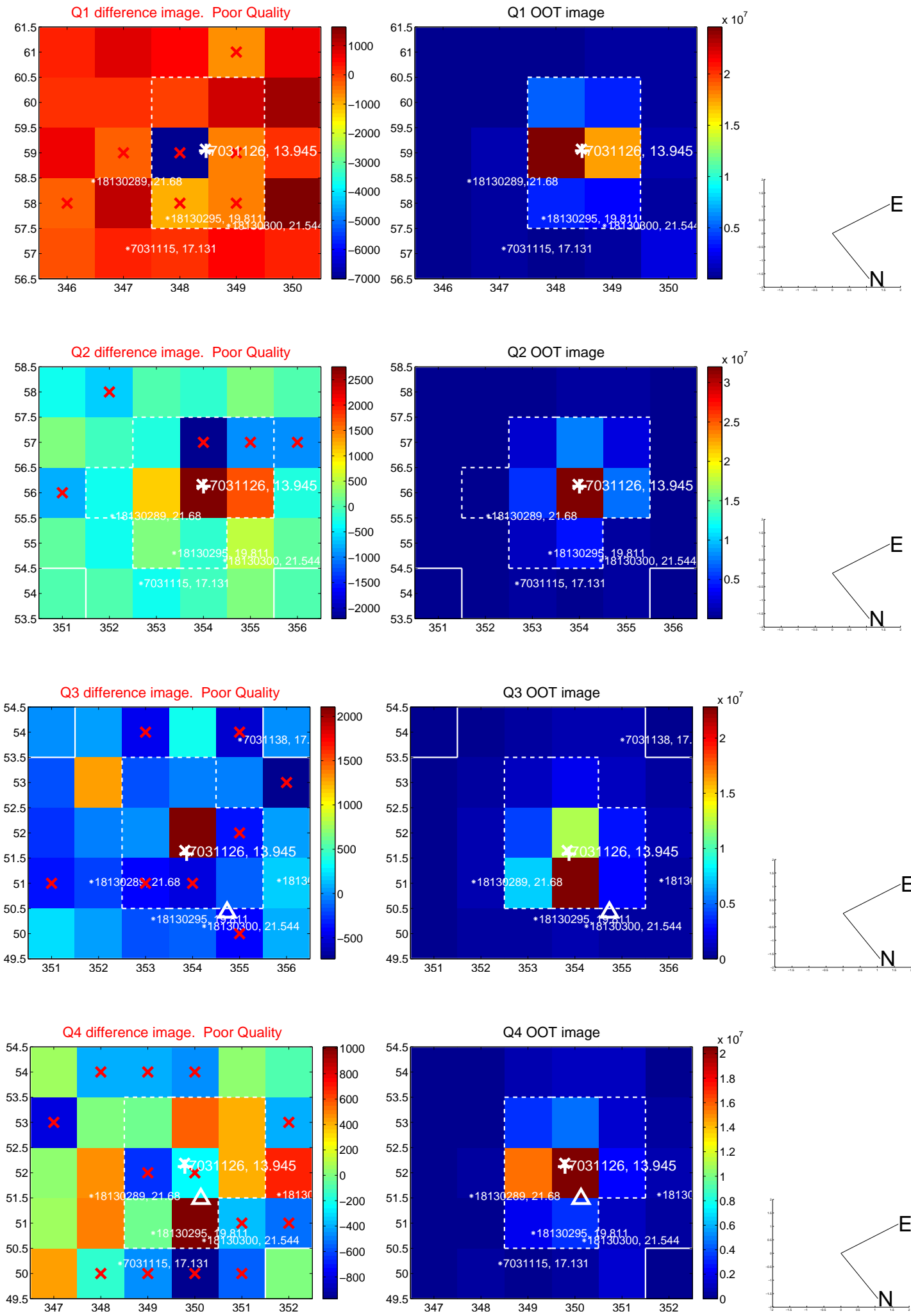
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.836 ± 1.137	2.49	0.128 ± 1.189	2.834 ± 1.171
PRF-fit source offset from KIC position	3.099 ± 1.098	2.82	0.001 ± 1.292	3.099 ± 1.099
photometric centroid source offset	0.59 ± 0.46	1.28	0.32 ± 0.47	0.49 ± 0.46

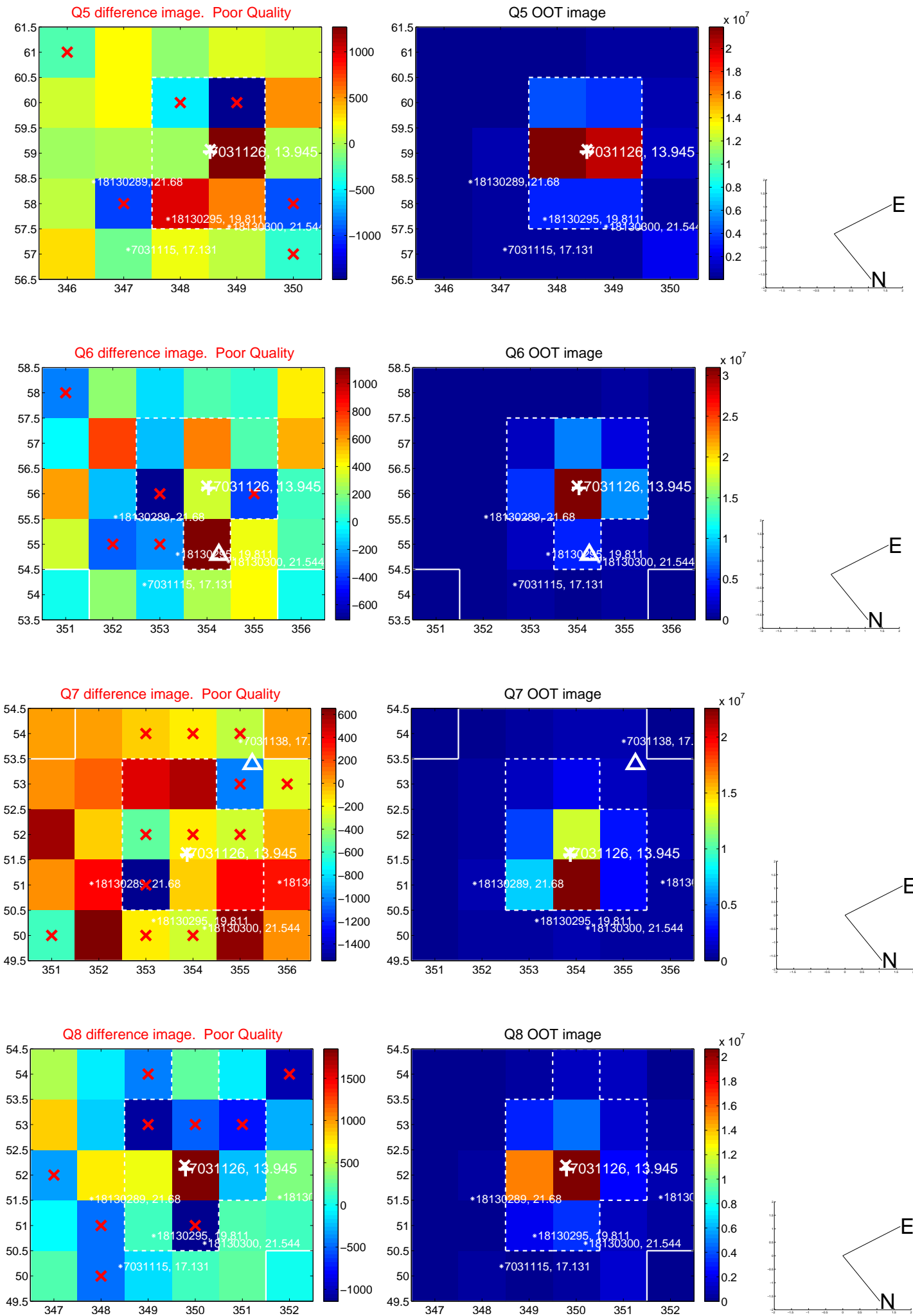


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

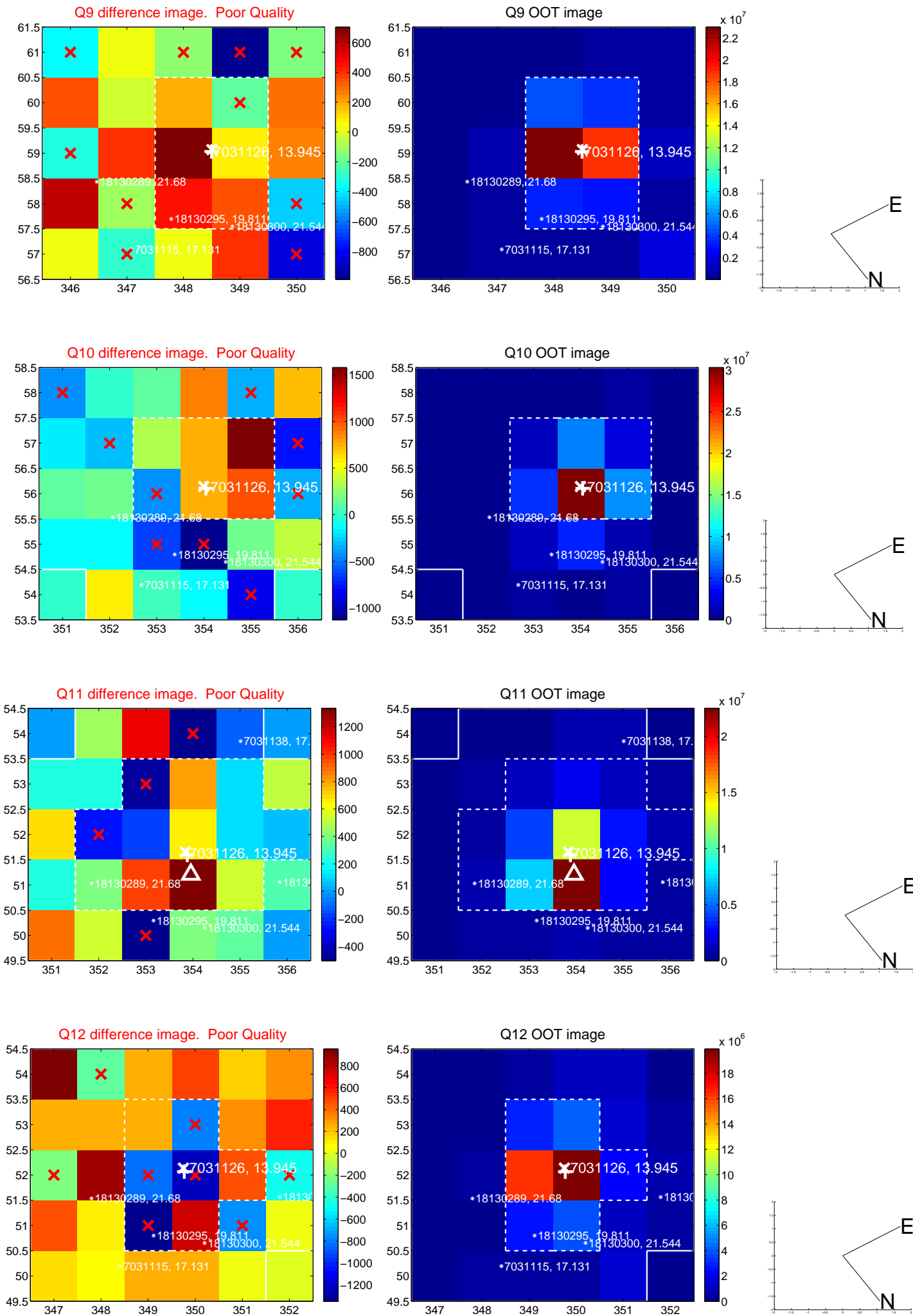
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



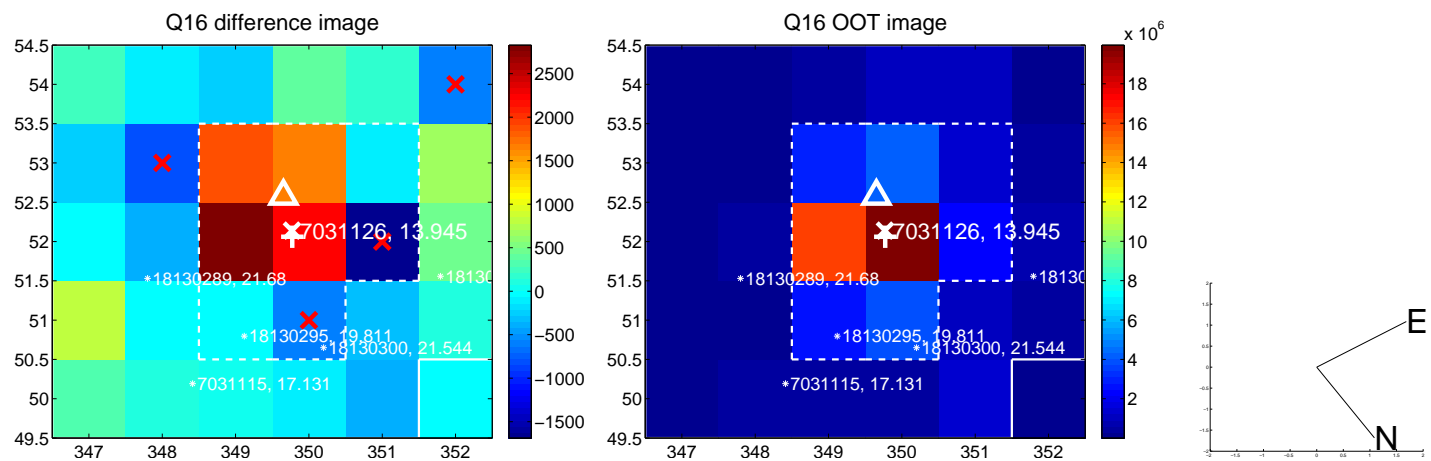
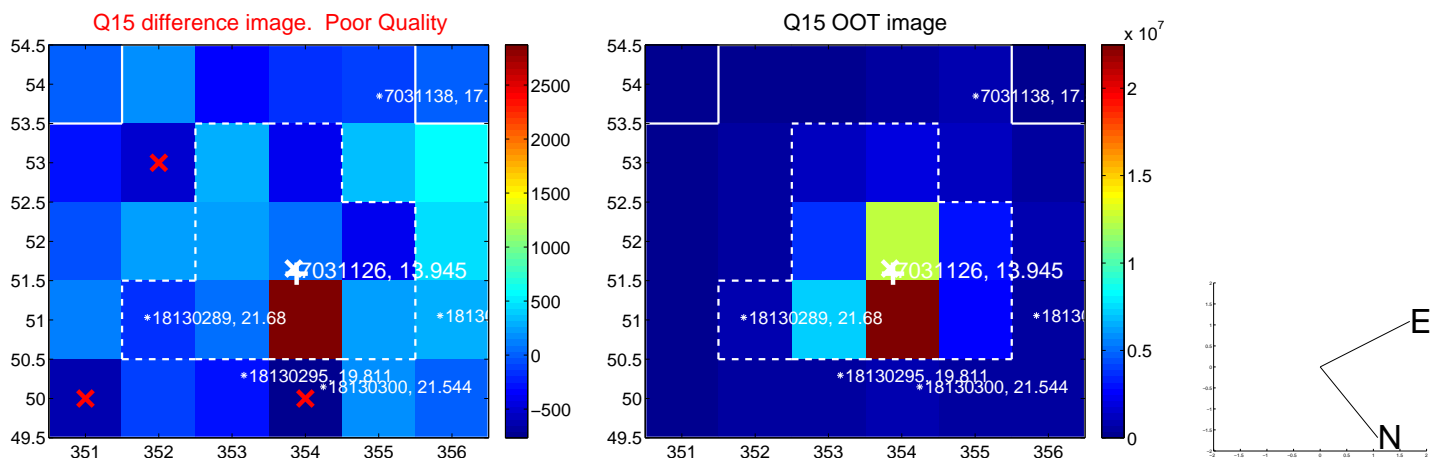
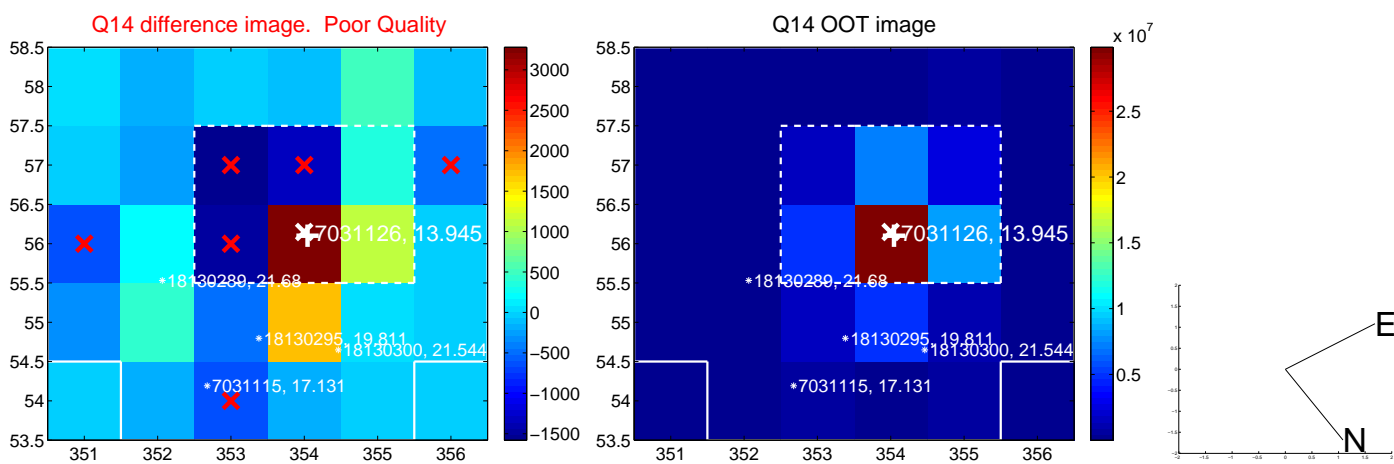
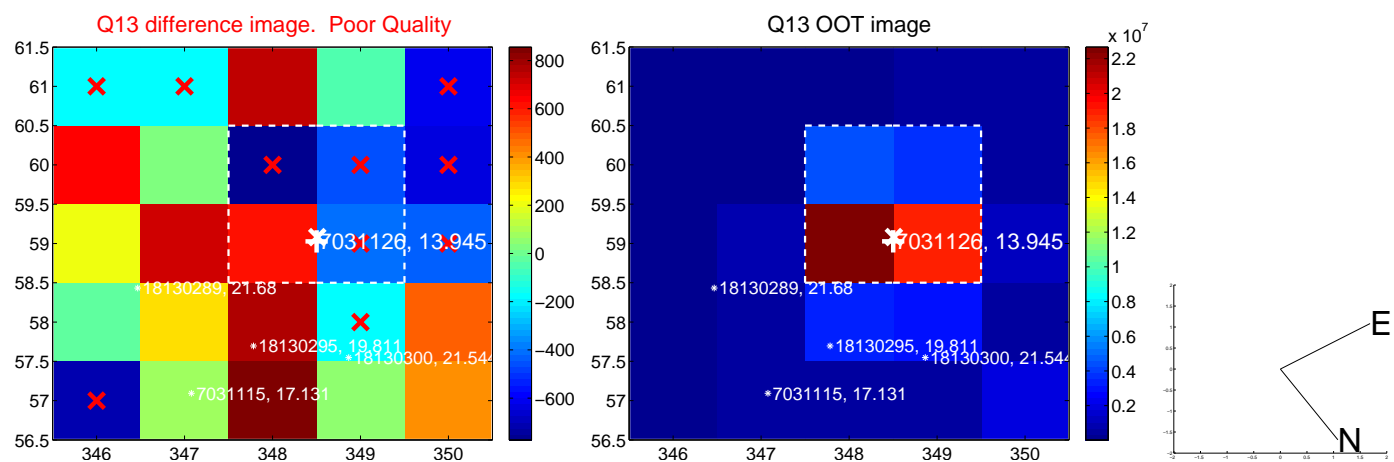
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



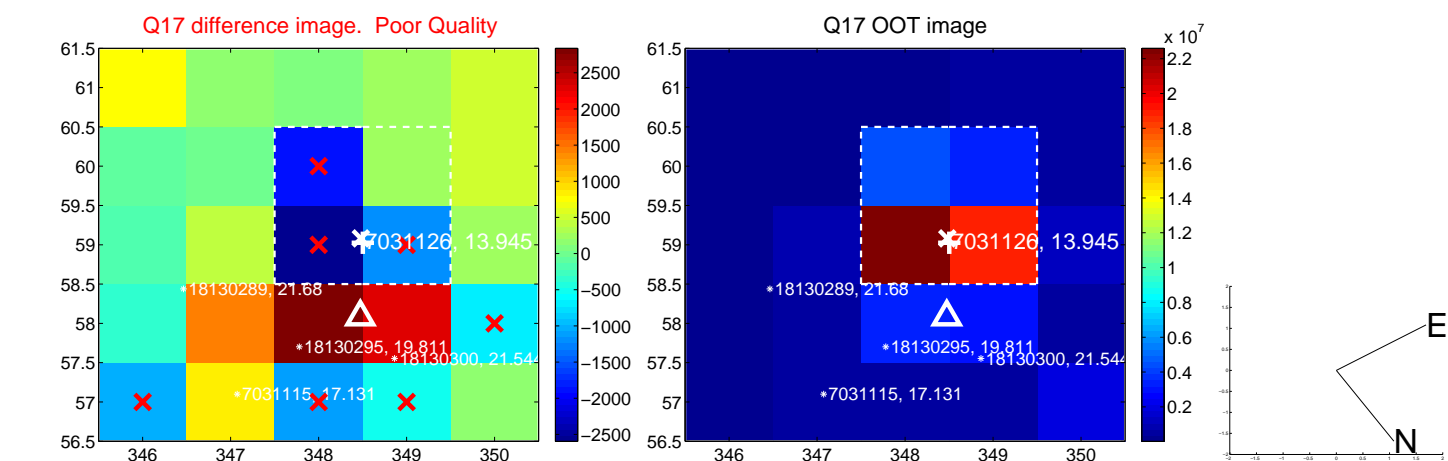
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



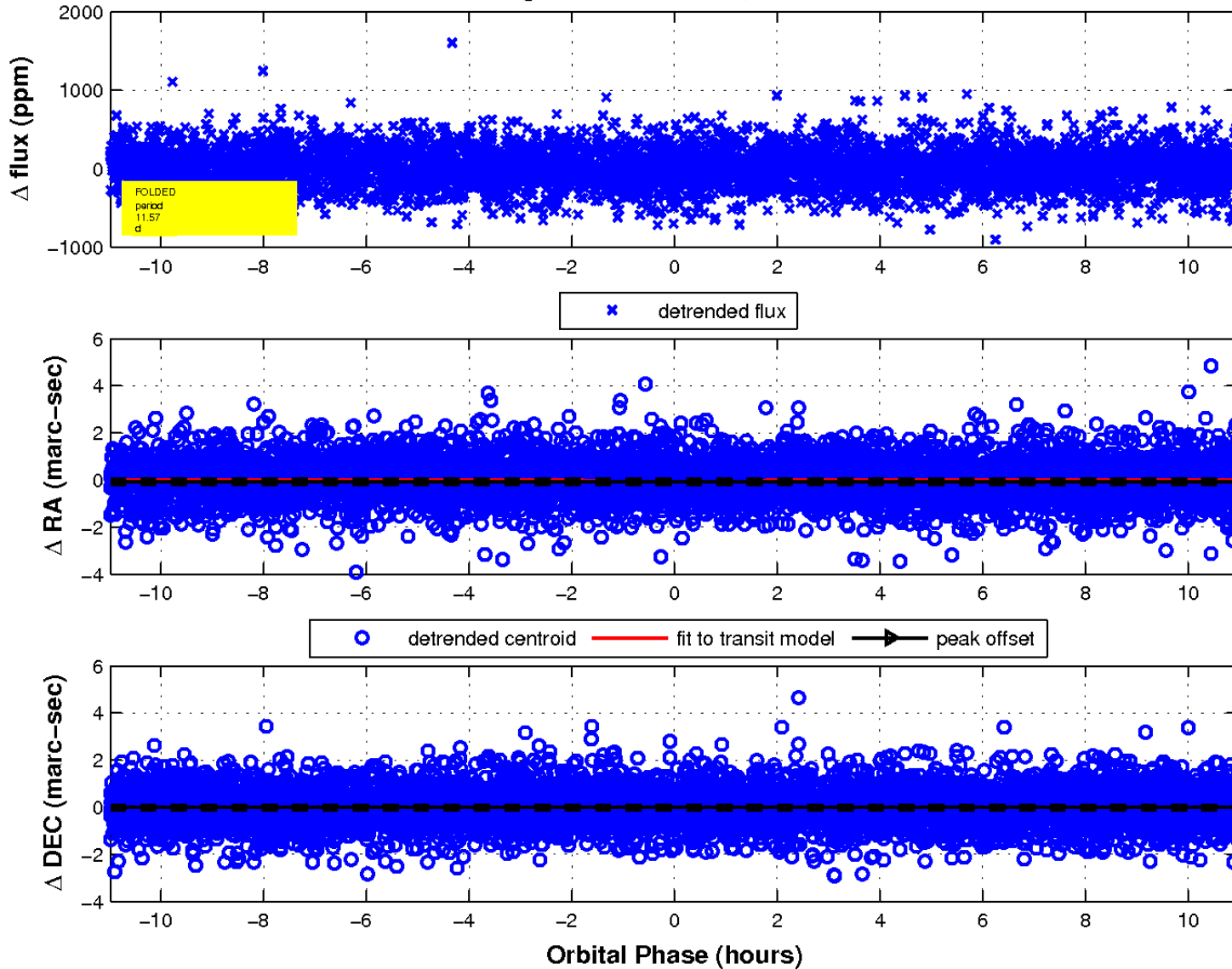
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

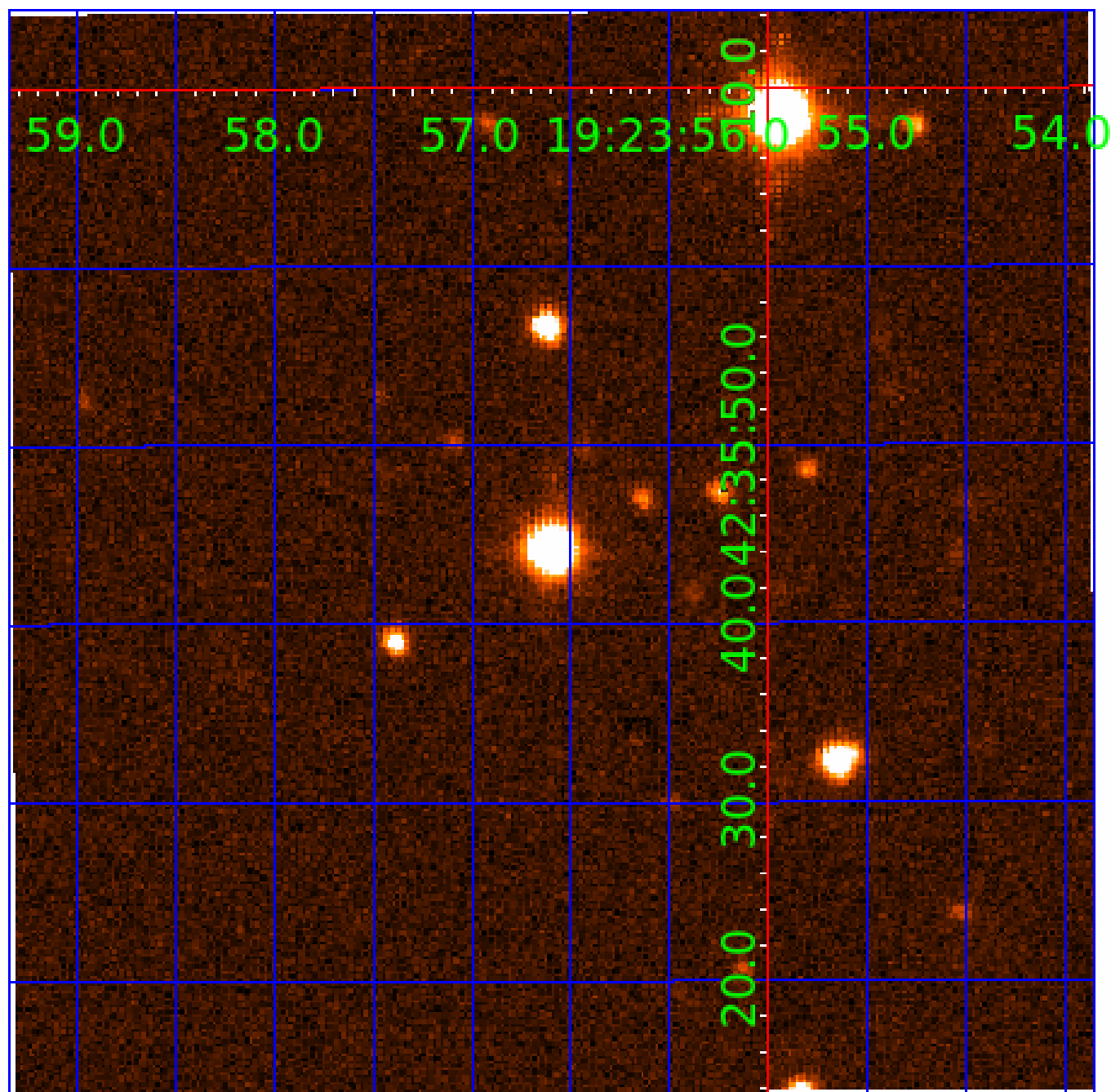


fluxWeightedCentroids, Planet 2 of 7



UKIRT Image

Declination



KIC 007031126

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})
007031126-01	OBS	7573.01	0.566742	131.882120	8.6	4.245	8.5	3.7	1.96	5102	0.56	14376.76
007031126-02	OBS	No	11.574048	134.284998	197.6	3.660	15.4	11.4	1.96	5102	2.72	257.55
007031126-03	OBS	No	7.676564	135.517245	835.1	1.500	13.6	-1.0	1.96	5102	5.56	445.26
007031126-04	OBS	No	14.045528	141.433326	716.5	0.520	15.9	20.8	1.96	5102	5.80	198.97
007031126-05	OBS	No	6.067112	134.420271	168.7	1.392	8.5	9.8	1.96	5102	2.50	609.35
007031126-06	OBS	No	3.112986	133.346365	122.0	1.246	10.8	8.4	1.96	5102	2.22	1483.45
007031126-07	OBS	No	14.125409	138.033325	160.6	3.353	11.9	8.6	1.96	5102	2.45	197.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007031126-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007031126-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV

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

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

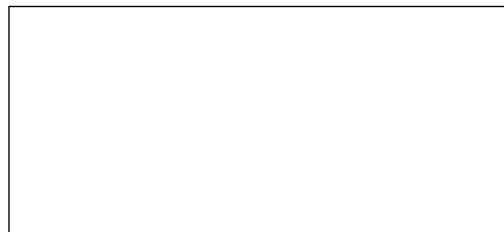
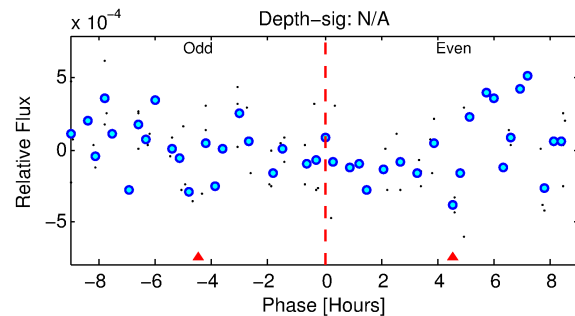
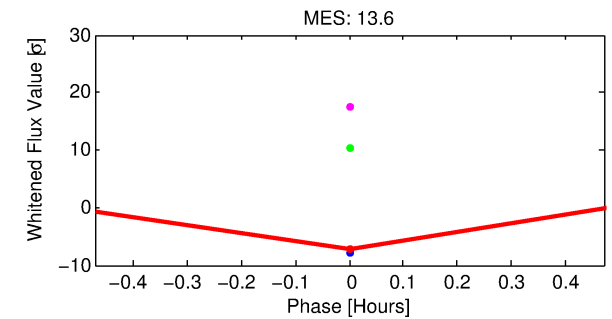
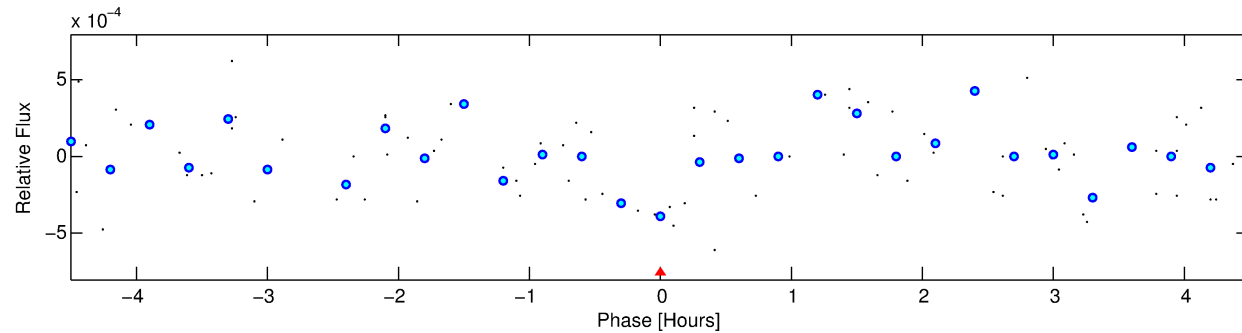
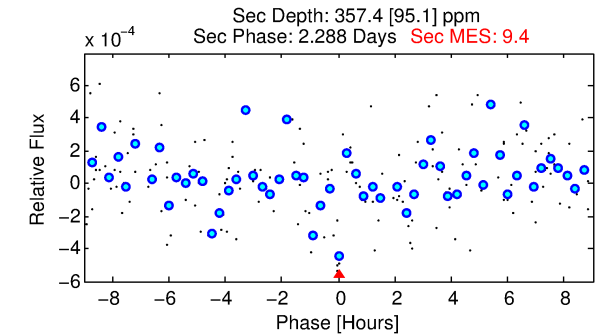
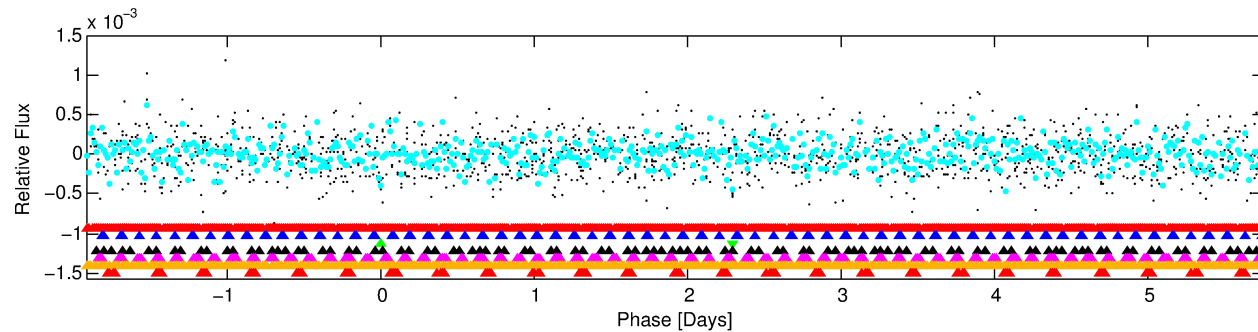
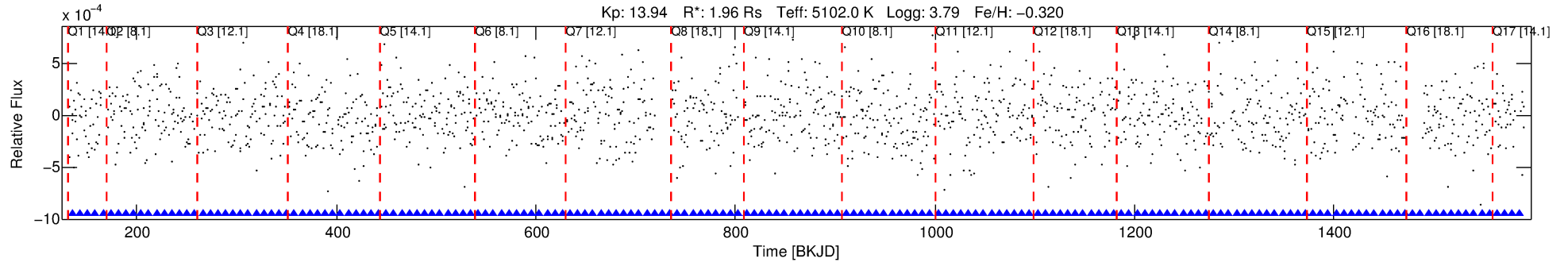
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007031126-03

No Significant Match Found

DV One-Page Summary

KIC: 7031126 Candidate: 3 of 7 Period: 7.677 d
KOI: K07573 Corr: No Ephemeris Match



TPS TCE Results:

Period = 7.67656 d
Epoch = 135.5172 BKJD

DV fit results are unavailable

DV Diagnostic Results:

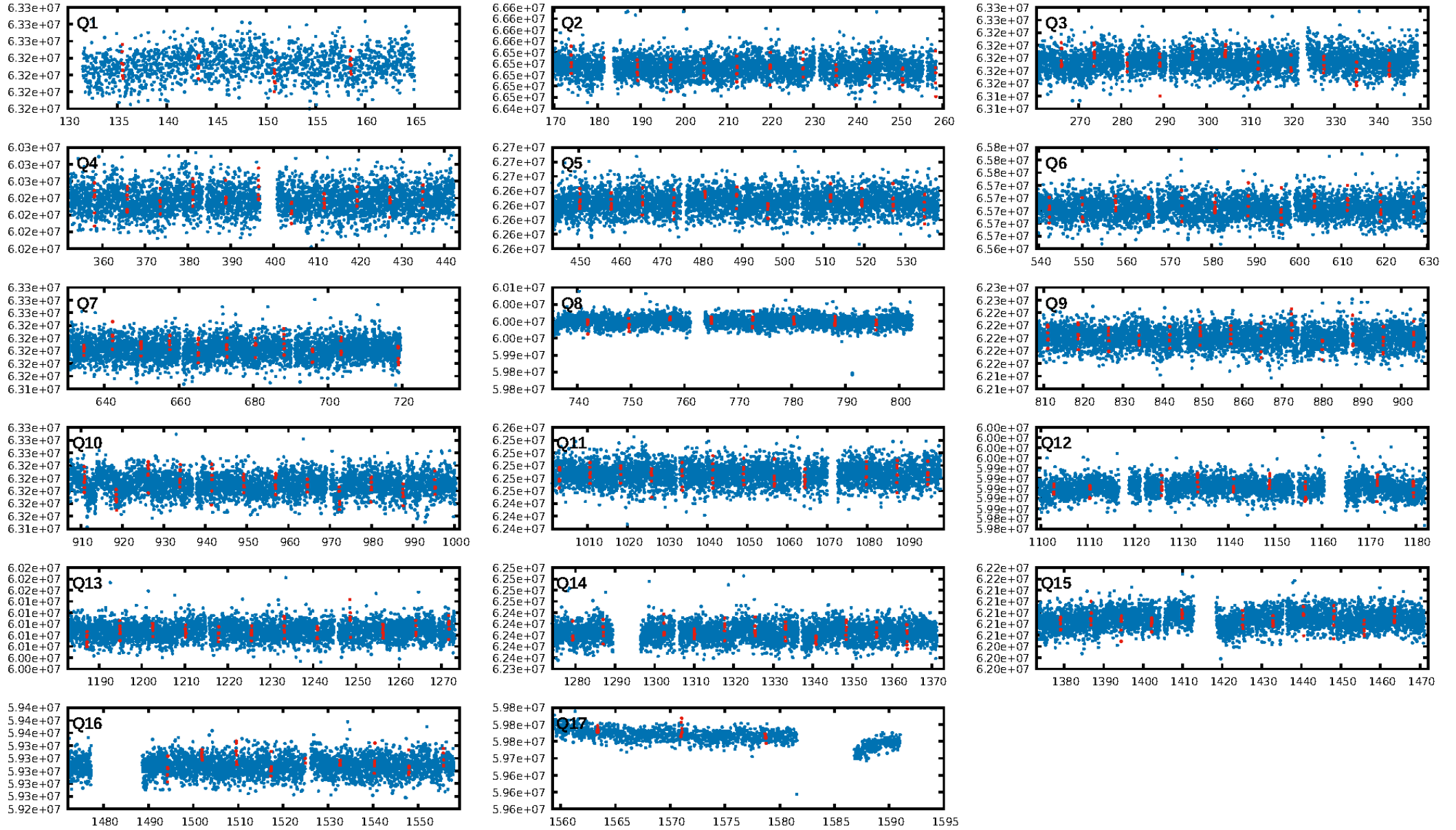
ShortPeriod-sig: 100.0% [18.87σ]
LongPeriod-sig: 100.0% [23.65σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.47e-06
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A

Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

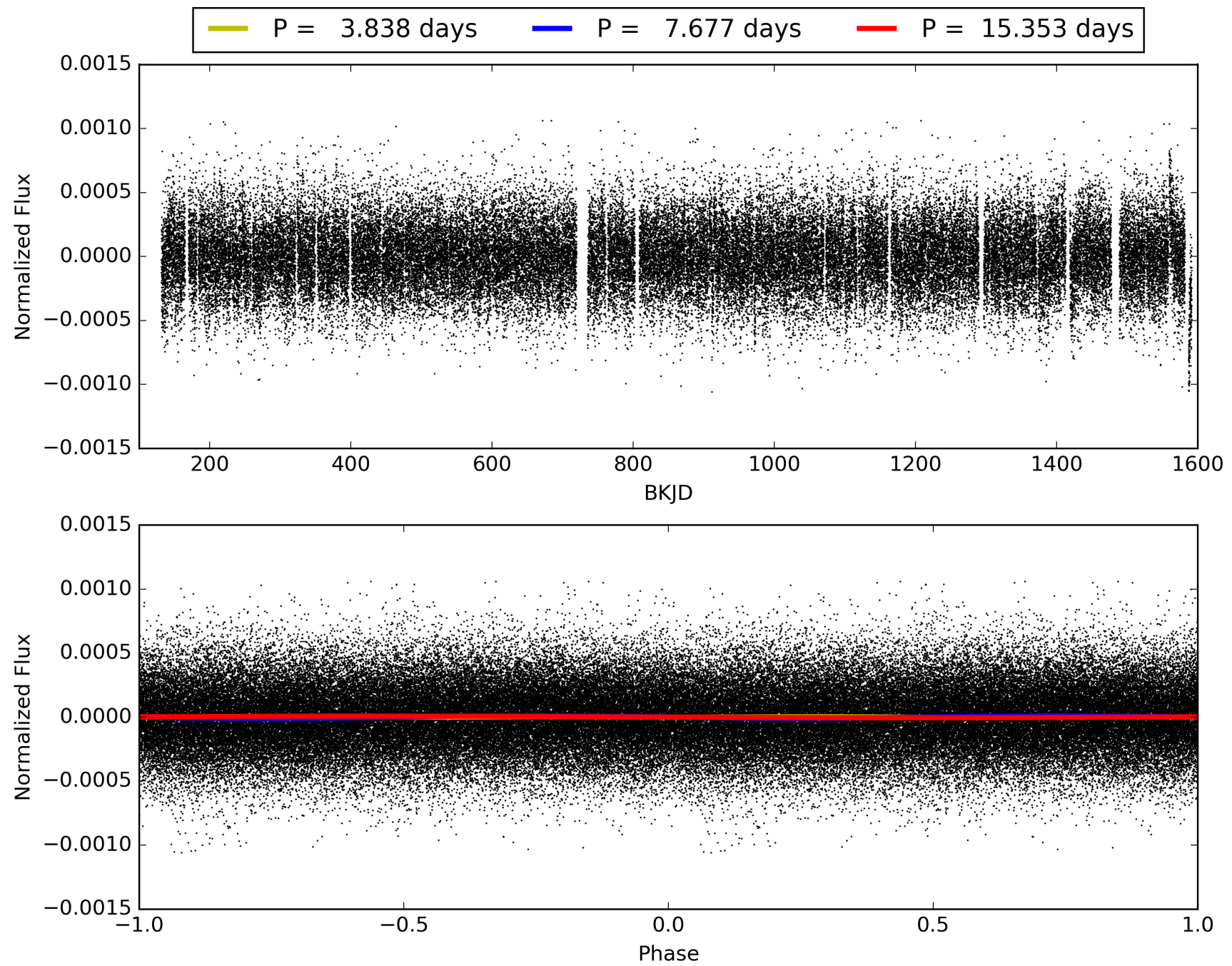
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:10:28 Z

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

TCE 007031126-03, PDC Light Curves

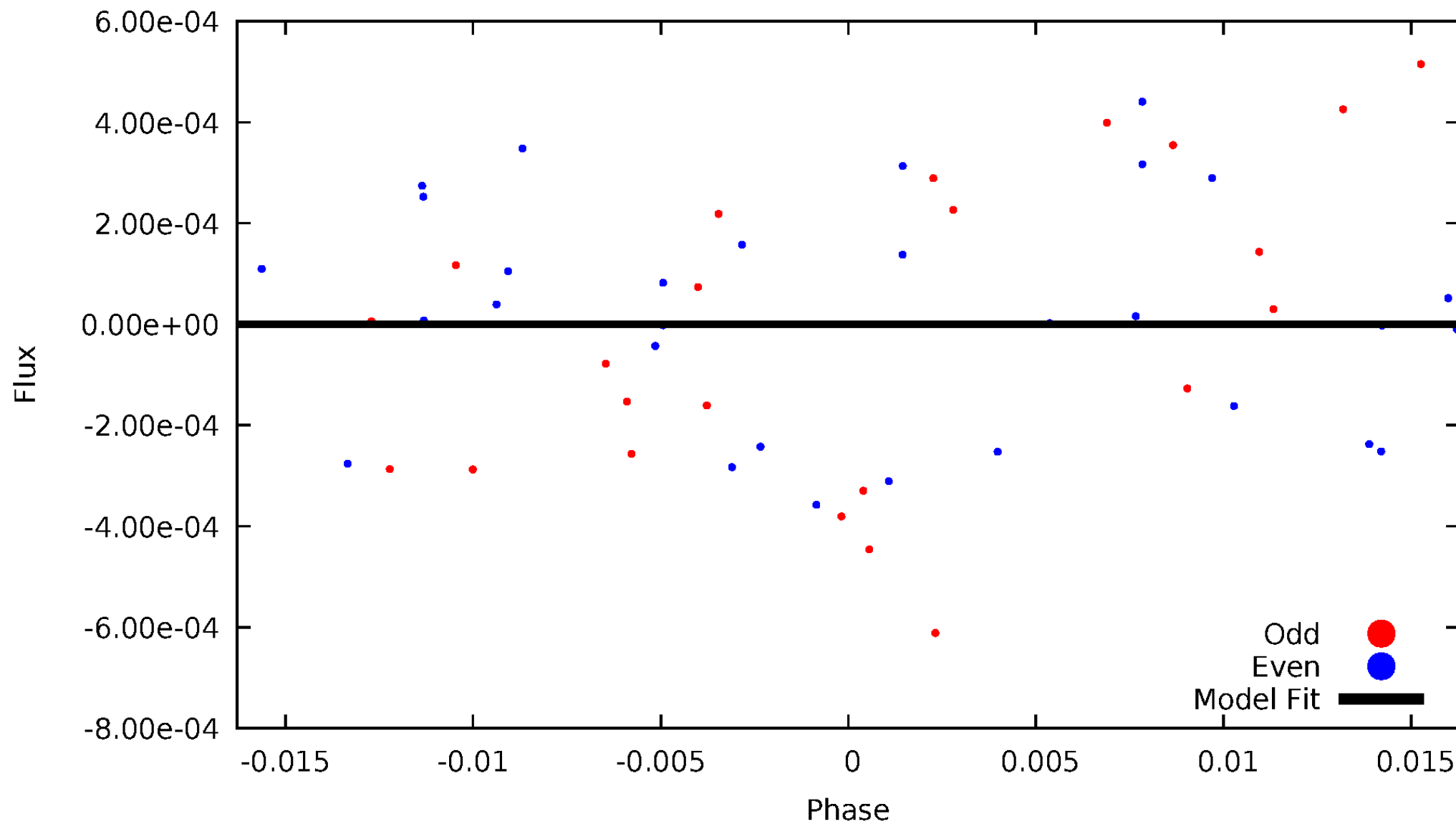


TCE 007031126-03



DV Odd/Even

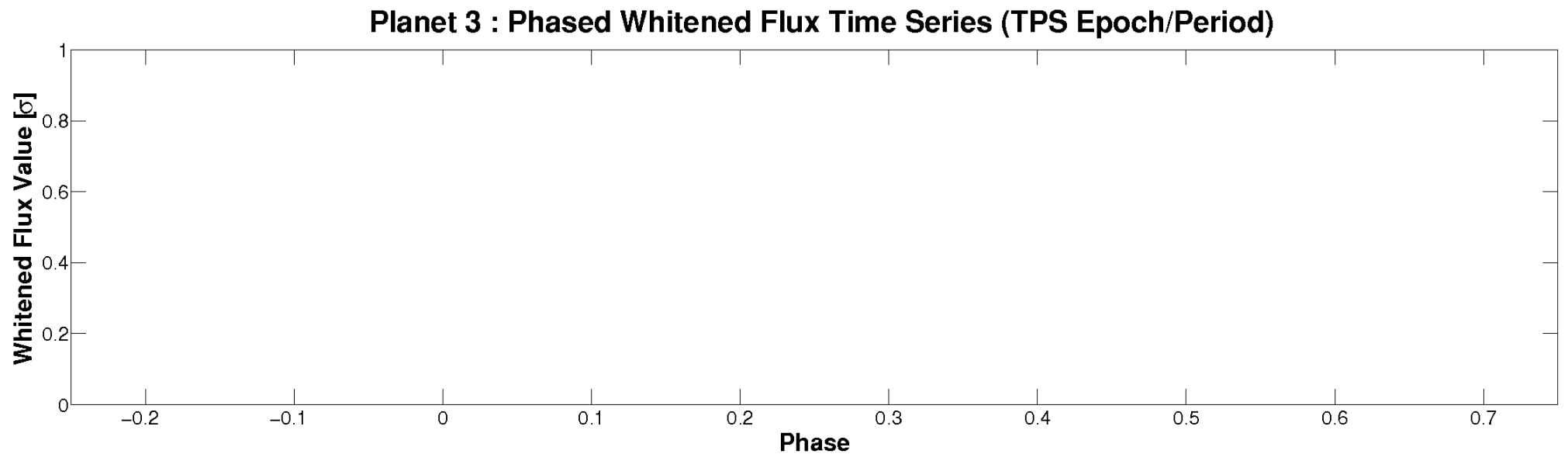
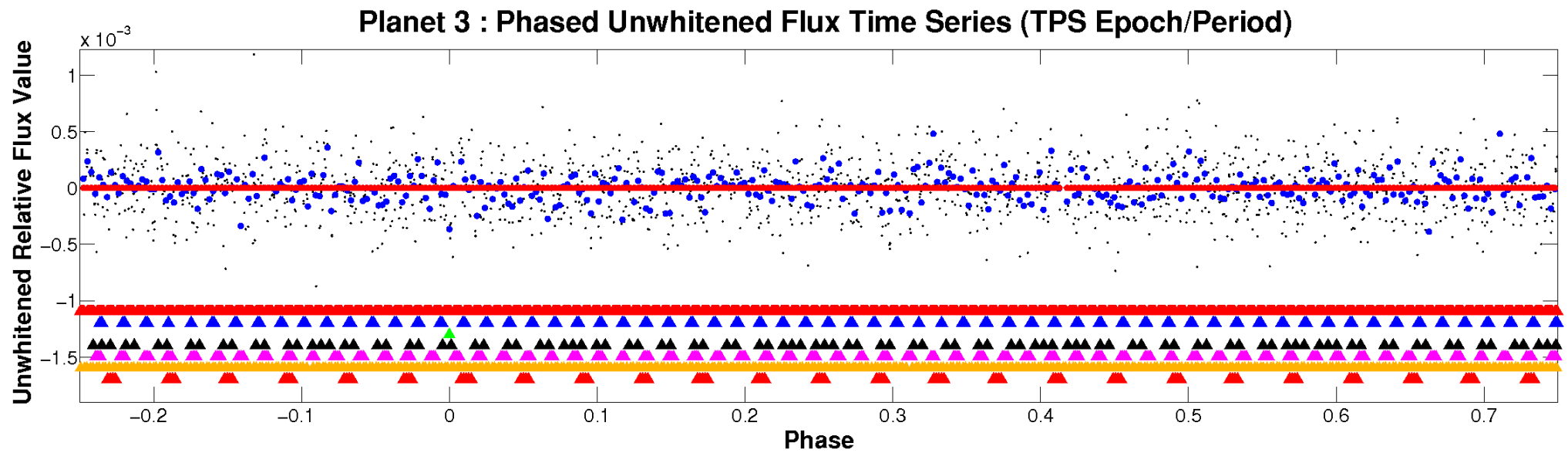
TCE 007031126-03



ALT Odd/Even

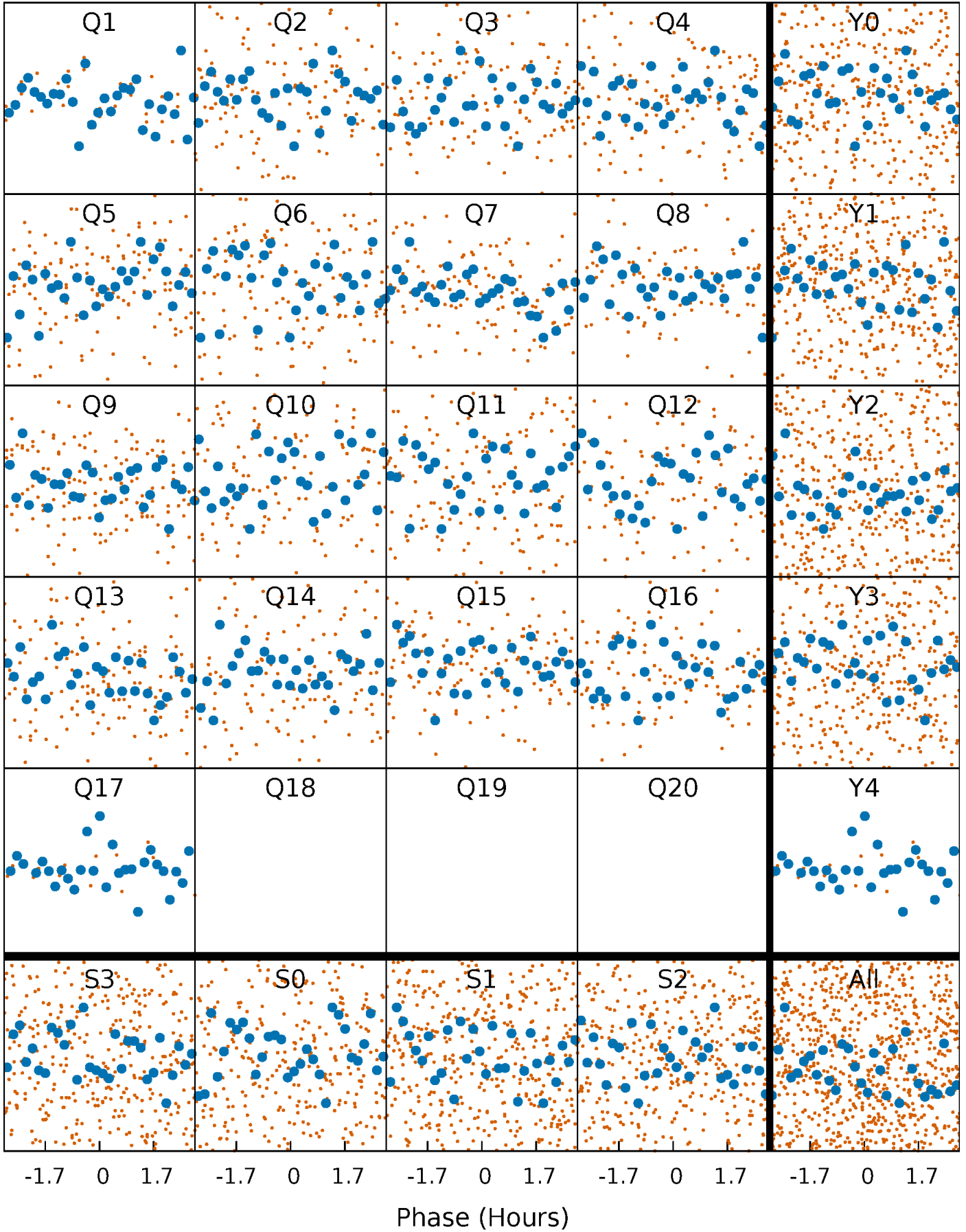
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve



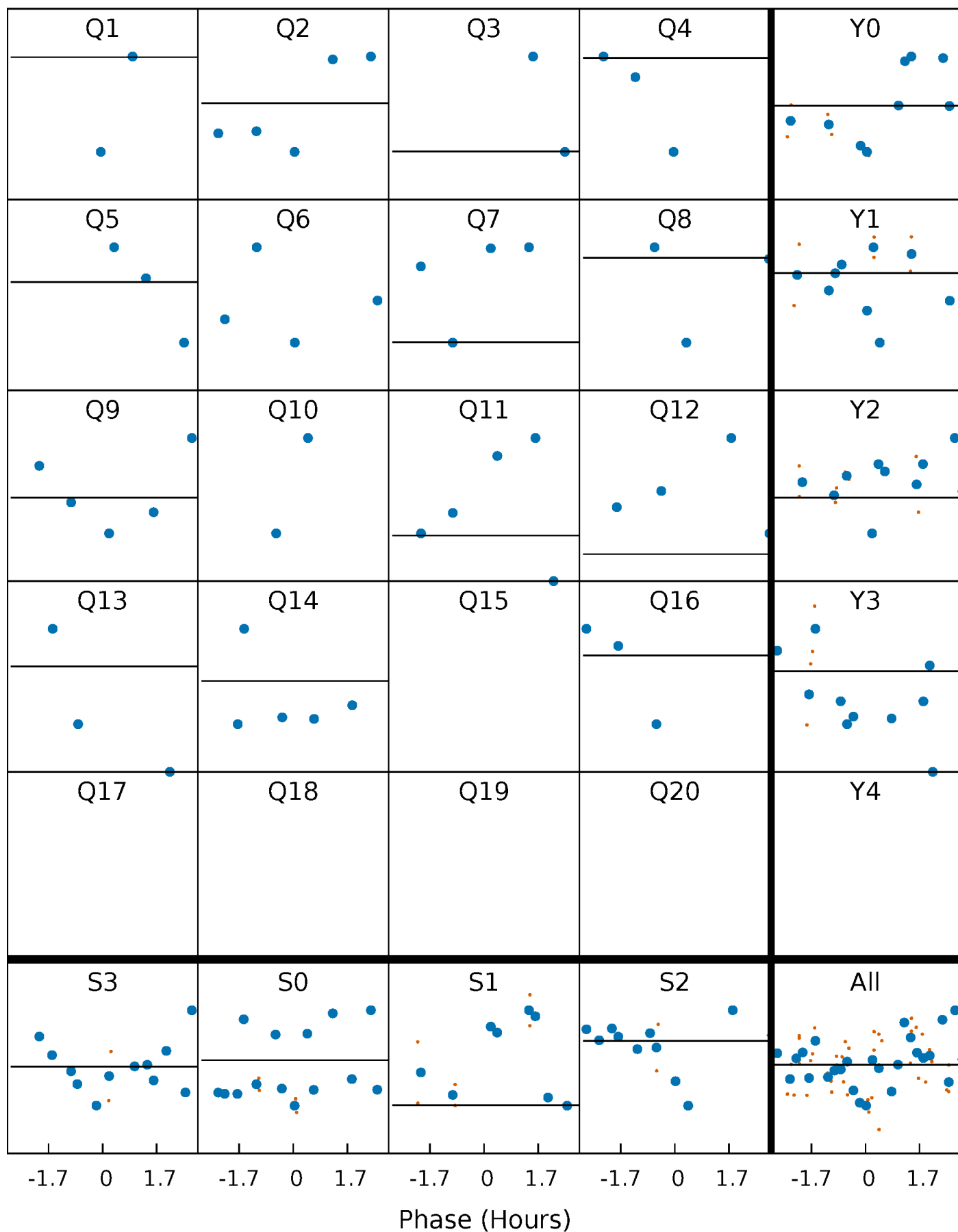
PDC Quarter-Phased Transit Curves

TCE 007031126-03 P= 7.676564 Days $T_0=135.517245$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007031126-03 P= 7.676564 Days $T_0=135.517245$ (BKJD)

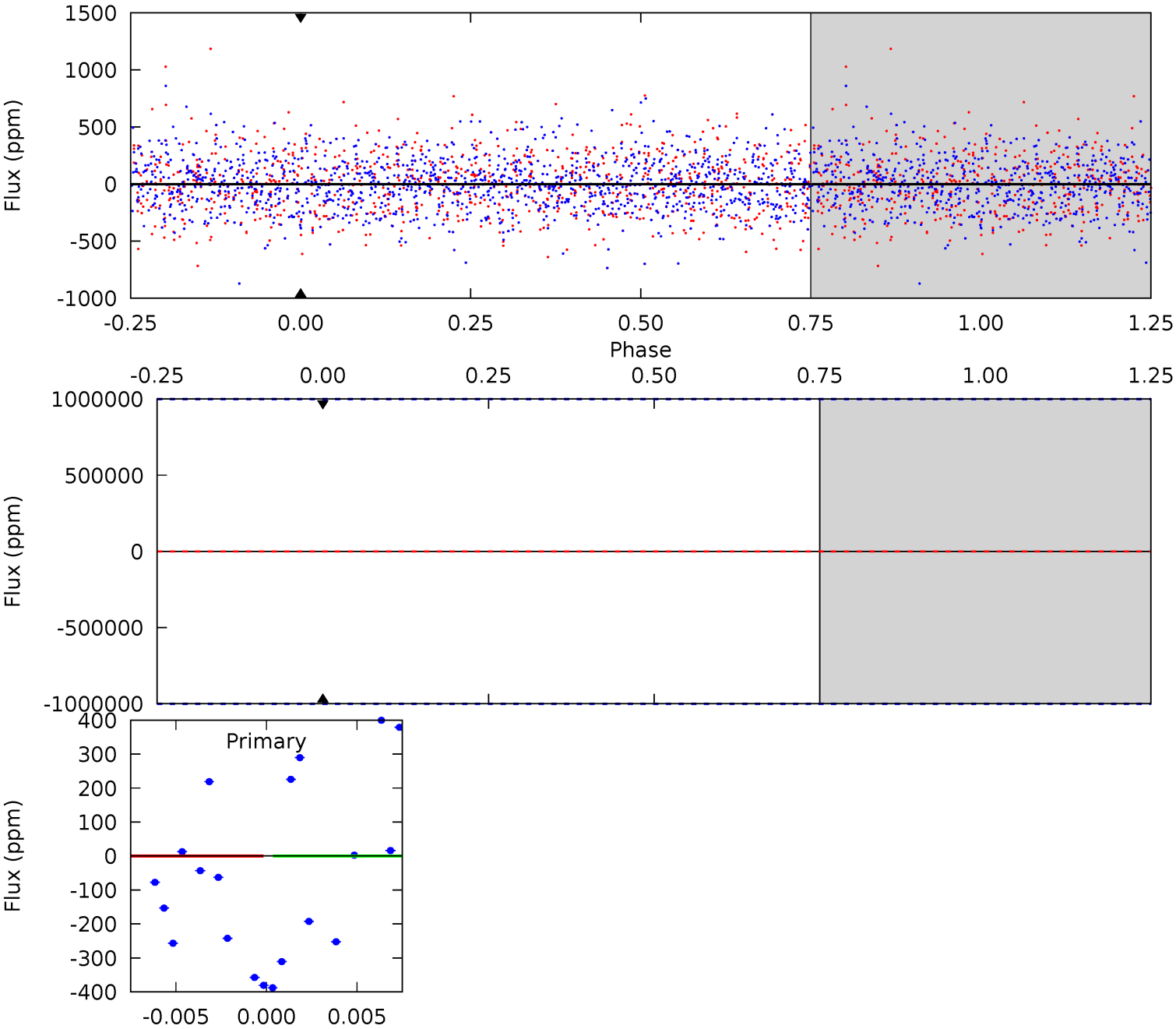


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007031126-03, P = 7.676564 Days, E = 127.840681 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 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$14.76^{+18.78}_{-10.10}$	1601^{+282}_{-311}	2614^{+13109}_{-17363}	$1.513^{+2765.092}_{-2476.047}$
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 $A_{\text{obs}} \gg 1.0$

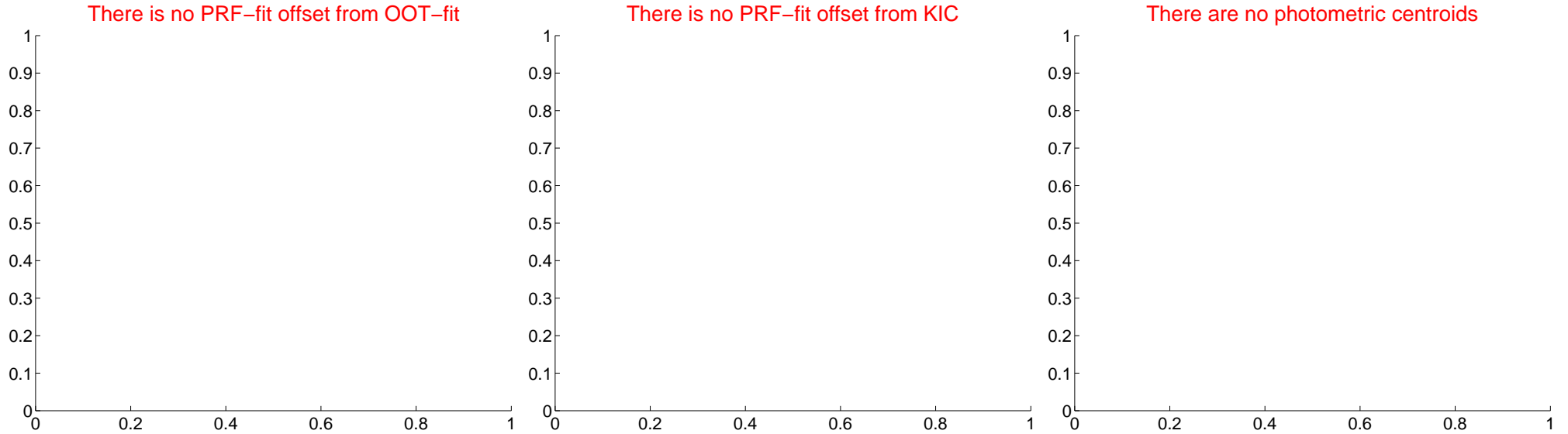
DV Centroid Data

Supplemental centroid analysis for 007031126-03. Kepler magnitude: 13.95. 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.



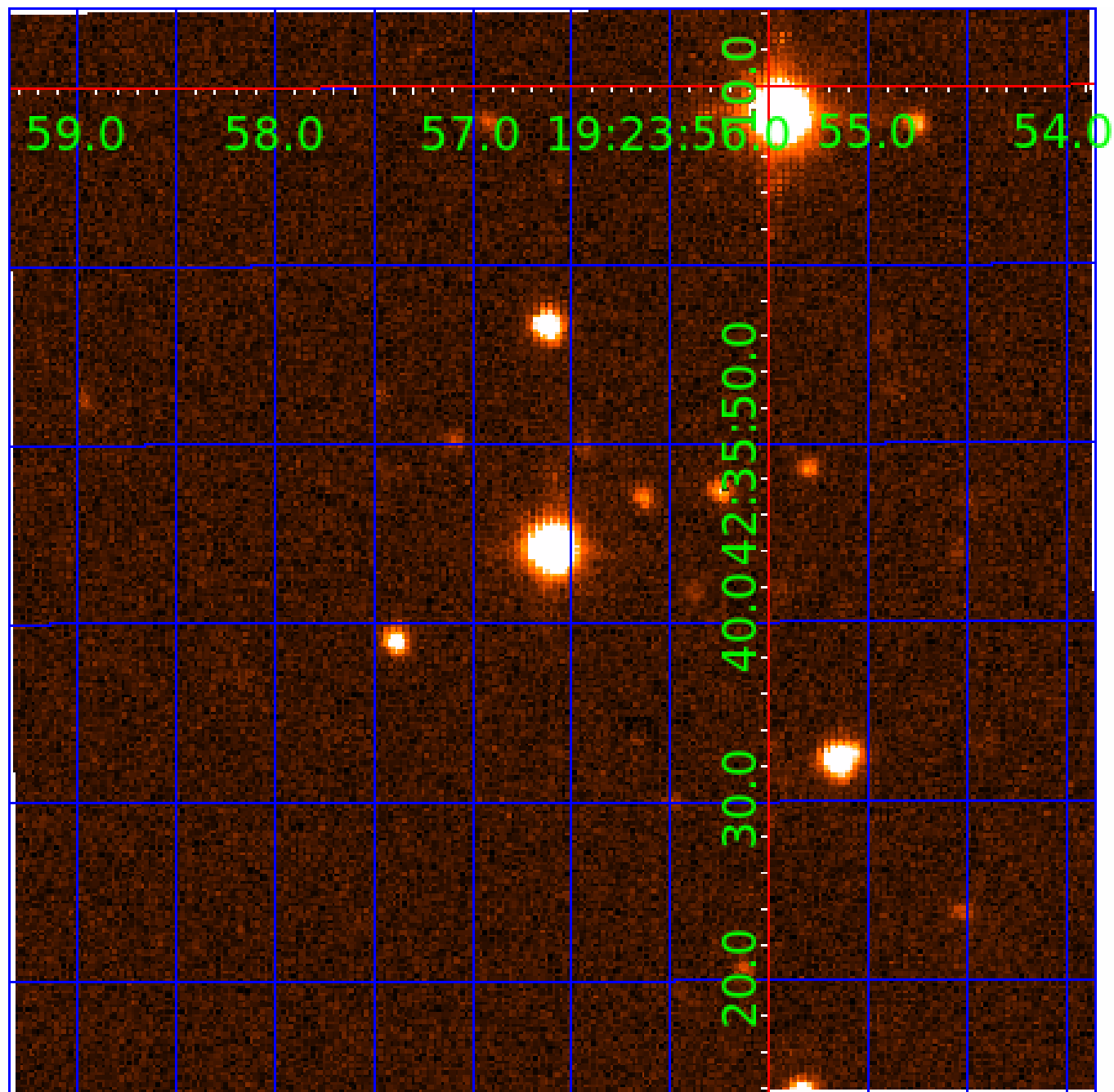
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007031126

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})
007031126-01	OBS	7573.01	0.566742	131.882120	8.6	4.245	8.5	3.7	1.96	5102	0.56	14376.76
007031126-02	OBS	No	11.574048	134.284998	197.6	3.660	15.4	11.4	1.96	5102	2.72	257.55
007031126-03	OBS	No	7.676564	135.517245	835.1	1.500	13.6	-1.0	1.96	5102	5.56	445.26
007031126-04	OBS	No	14.045528	141.433326	716.5	0.520	15.9	20.8	1.96	5102	5.80	198.97
007031126-05	OBS	No	6.067112	134.420271	168.7	1.392	8.5	9.8	1.96	5102	2.50	609.35
007031126-06	OBS	No	3.112986	133.346365	122.0	1.246	10.8	8.4	1.96	5102	2.22	1483.45
007031126-07	OBS	No	14.125409	138.033325	160.6	3.353	11.9	8.6	1.96	5102	2.45	197.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007031126-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007031126-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV

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

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

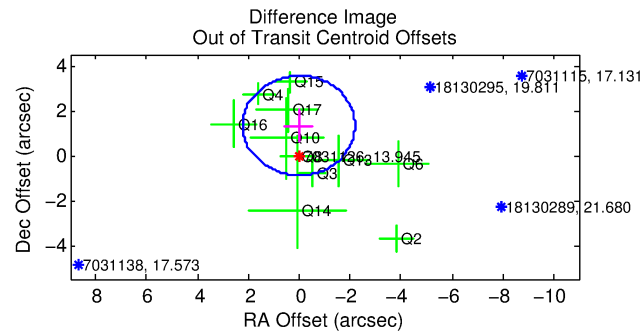
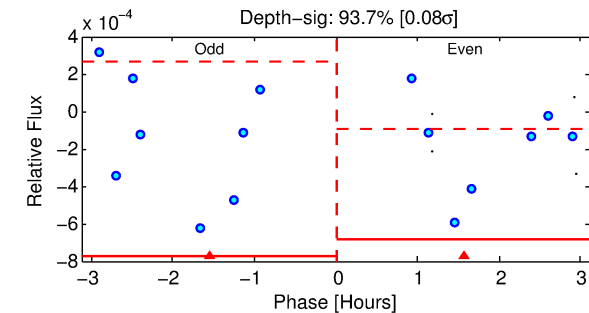
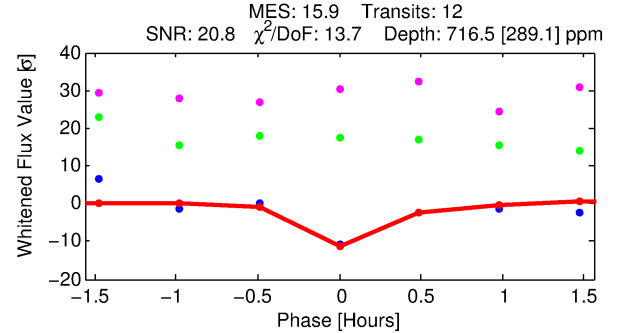
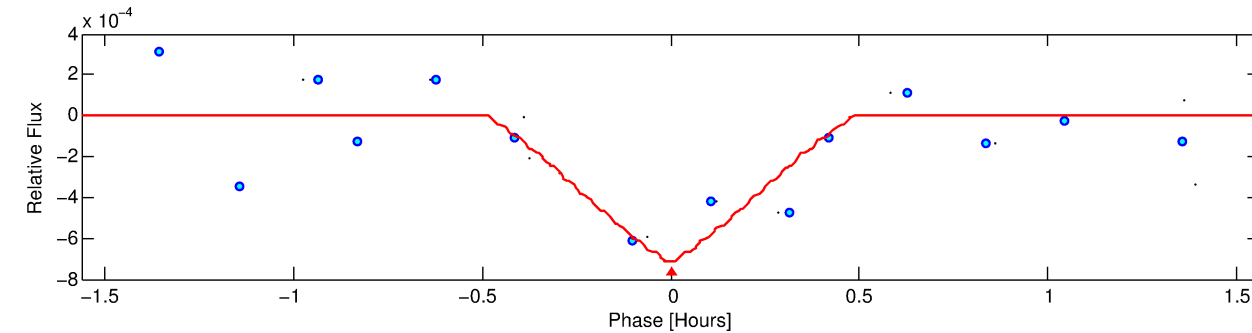
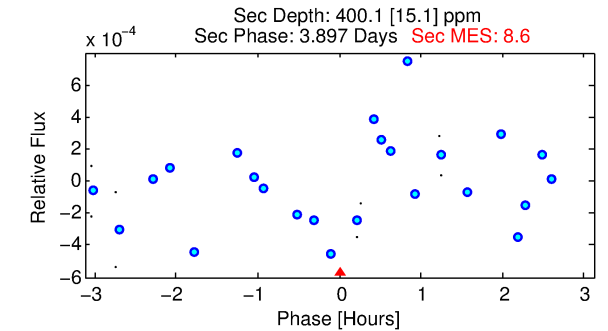
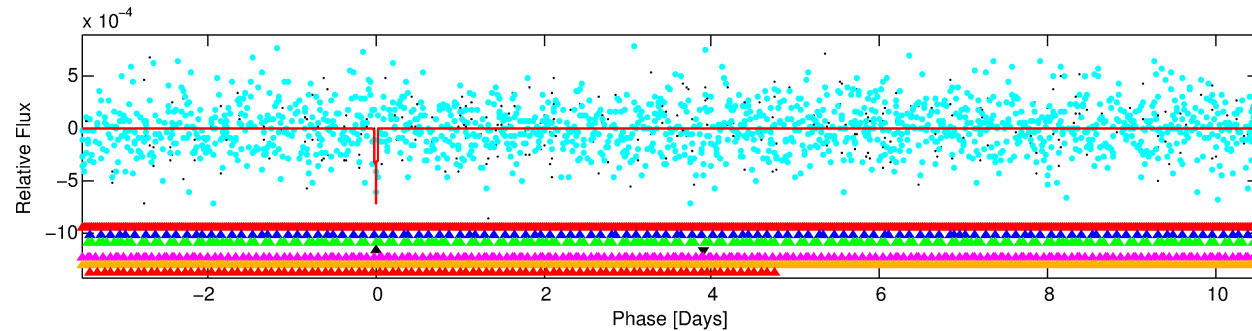
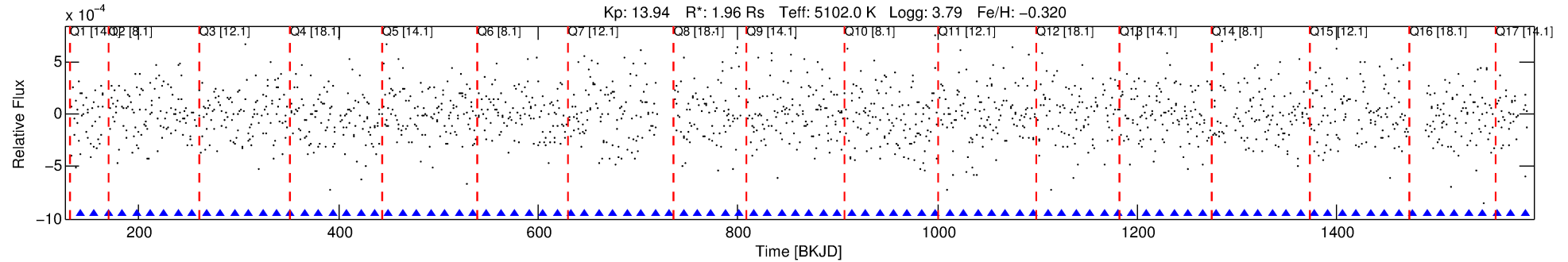
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007031126-04

No Significant Match Found

DV One-Page Summary

KIC: 7031126 Candidate: 4 of 7 Period: 14.046 d
KOI: K07573 Corr: No Ephemeris Match



DV Fit Results:

Period = 14.04553 [0.00008] d
Epoch = 141.4333 [0.0050] BKJD
Rp/R* = 0.0271 [0.0377]
a/R* = 169.20 [828.21]
b = 0.62 [5.01]
Seff = 198.97 [266.16]
Teq = 958 [320] K
Rp = 5.80 [8.93] Re
a = 0.1083 [0.0832] AU
Ag = 76.82 [236.87] [0.32 σ]
Teffp = 4384 [3050] K [1.12 σ]

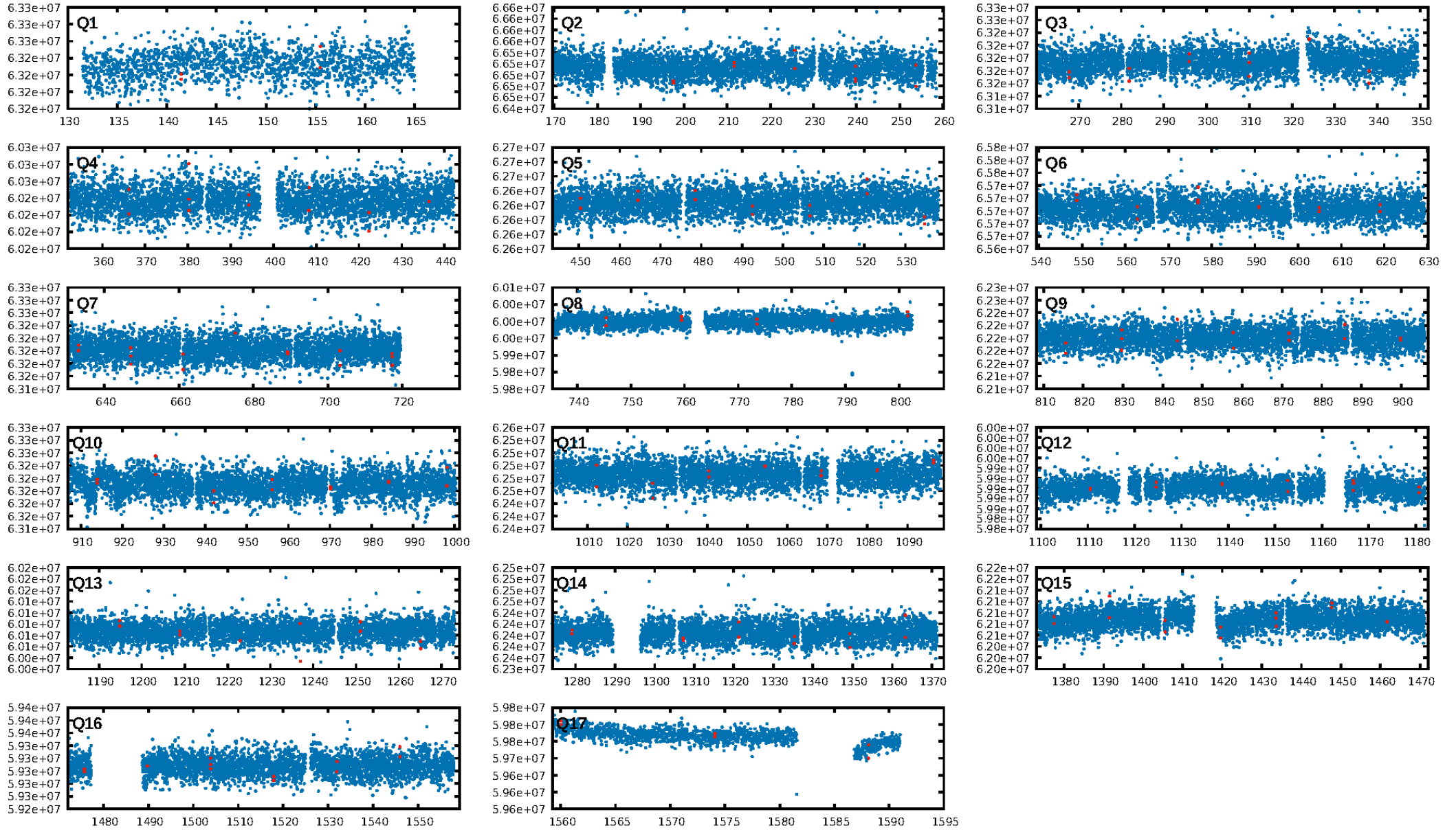
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [16.05 σ]
LongPeriod-sig: 42.8% [0.56 σ]
ModelChiSquare2-sig: 5.4%
ModelChiSquareGof-sig: 56.8%
Bootstrap-pfa: 4.70e-08
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: -0.2782
Centroid-sig: 20.2%
Centroid-so: 0.532 arcsec [1.38 σ]
OotOffset-rm: 1.332 arcsec [1.81 σ]
KicOffset-rm: 1.585 arcsec [2.16 σ]
OotOffset-st: 4/2/3/2 [11]
KicOffset-st: 4/2/3/2 [11]
DiffImageQuality-fgm: 0.27 [3/11]
DiffImageOverlap-fno: 0.00 [0/17]

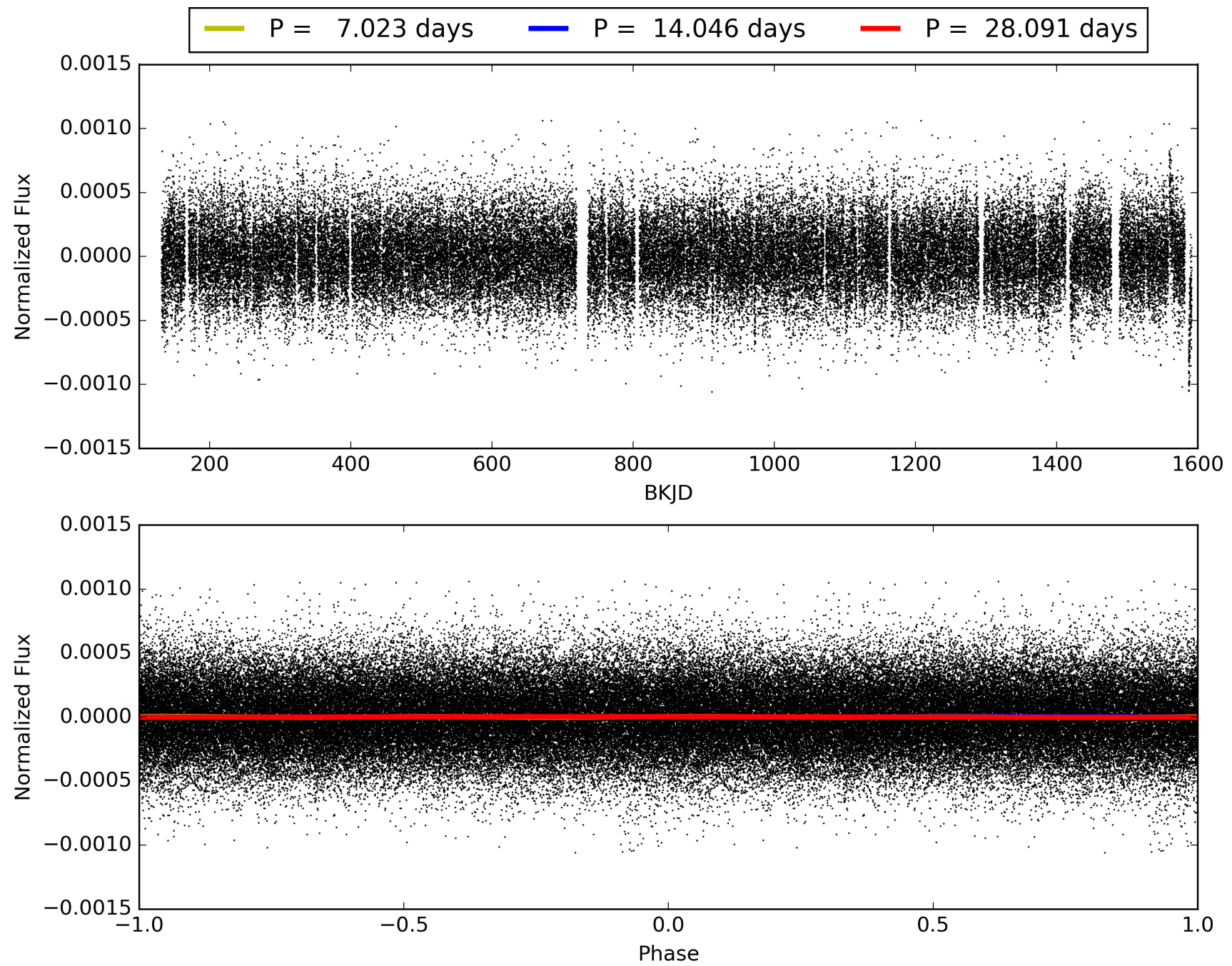
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:10:31 Z

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

TCE 007031126-04, PDC Light Curves

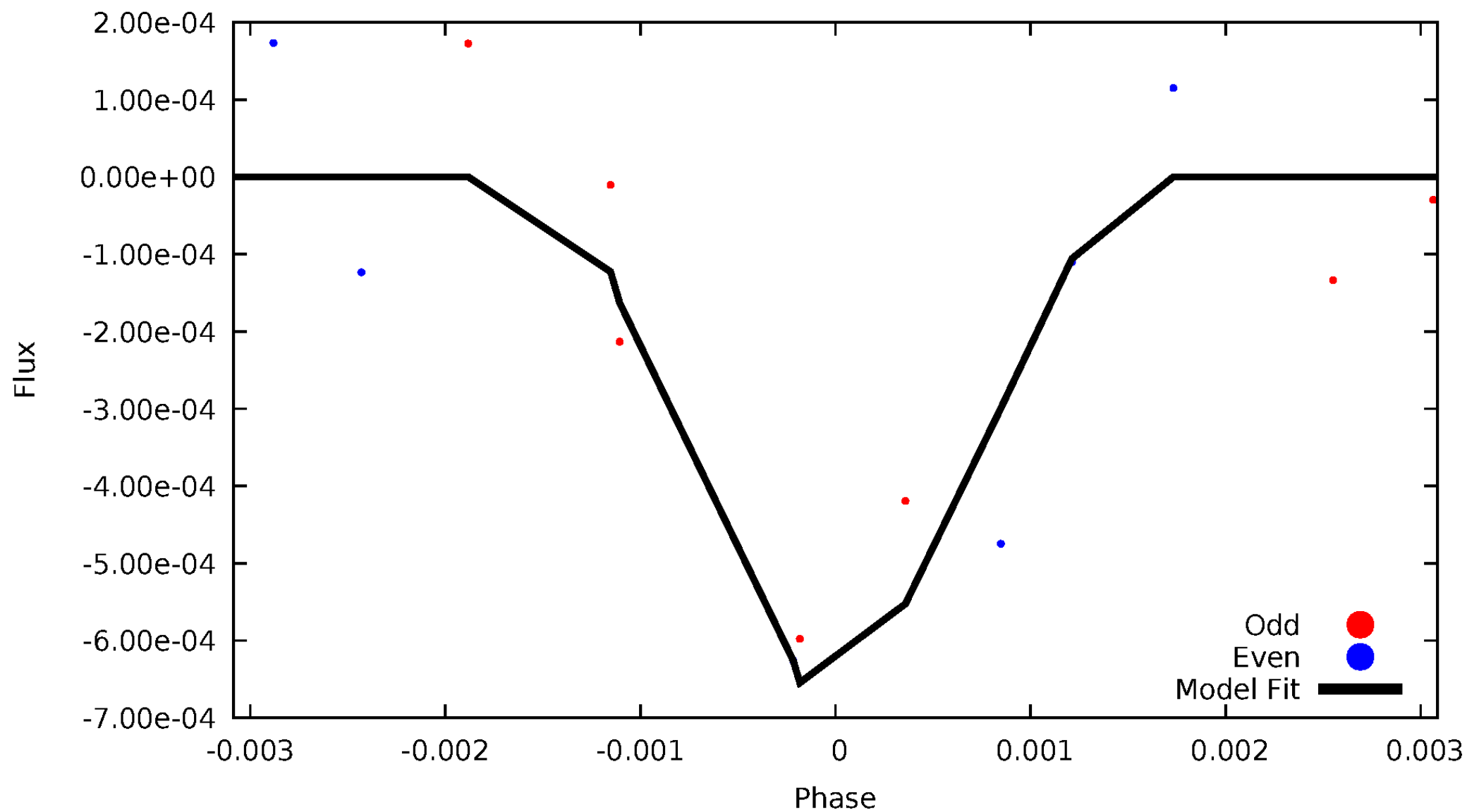


TCE 007031126-04



DV Odd/Even

TCE 007031126-04

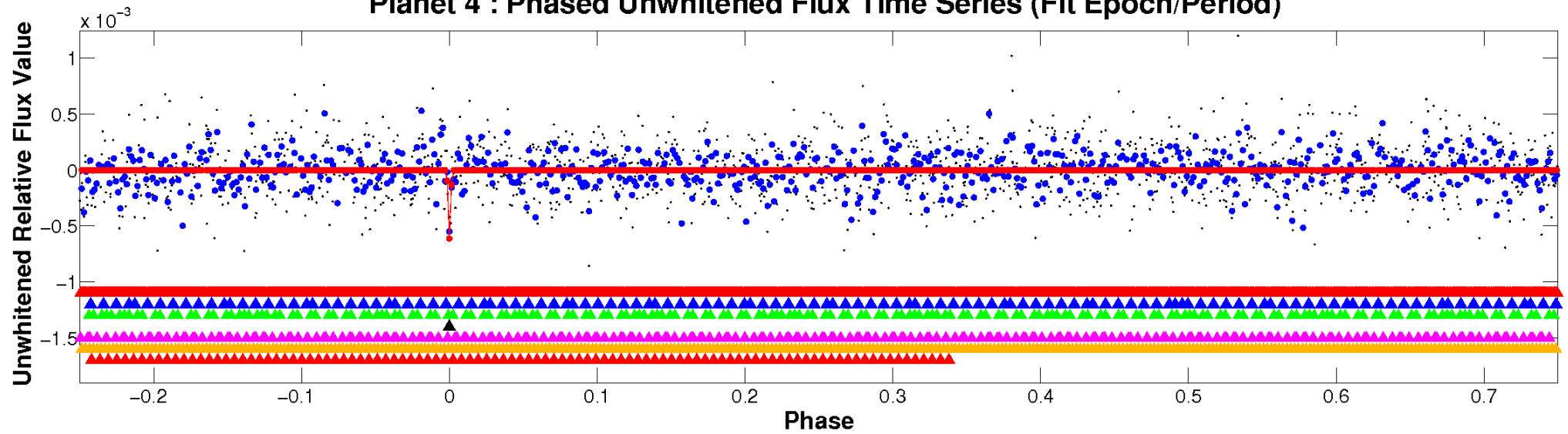


ALT Odd/Even

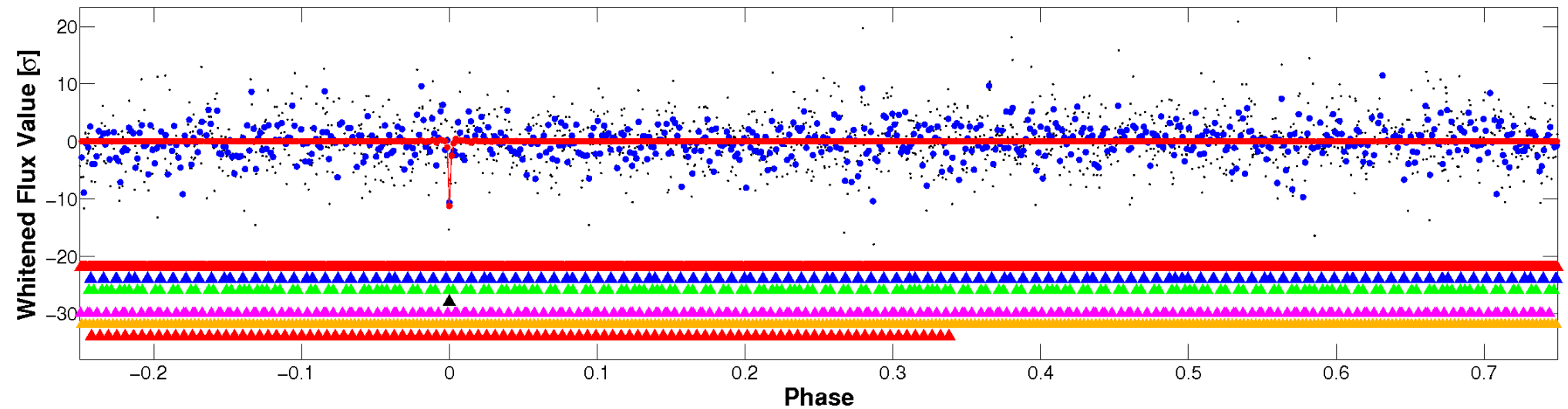
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

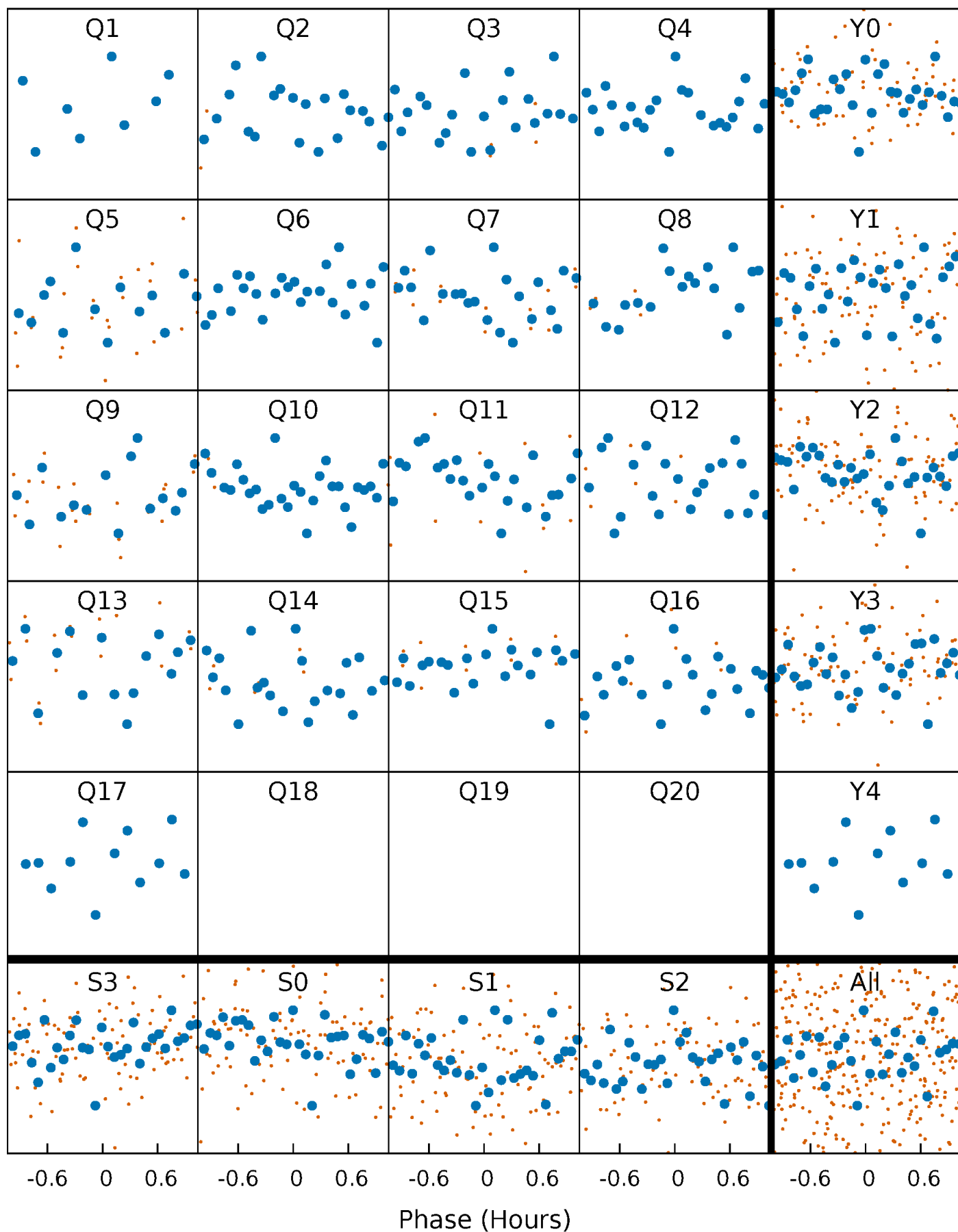


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



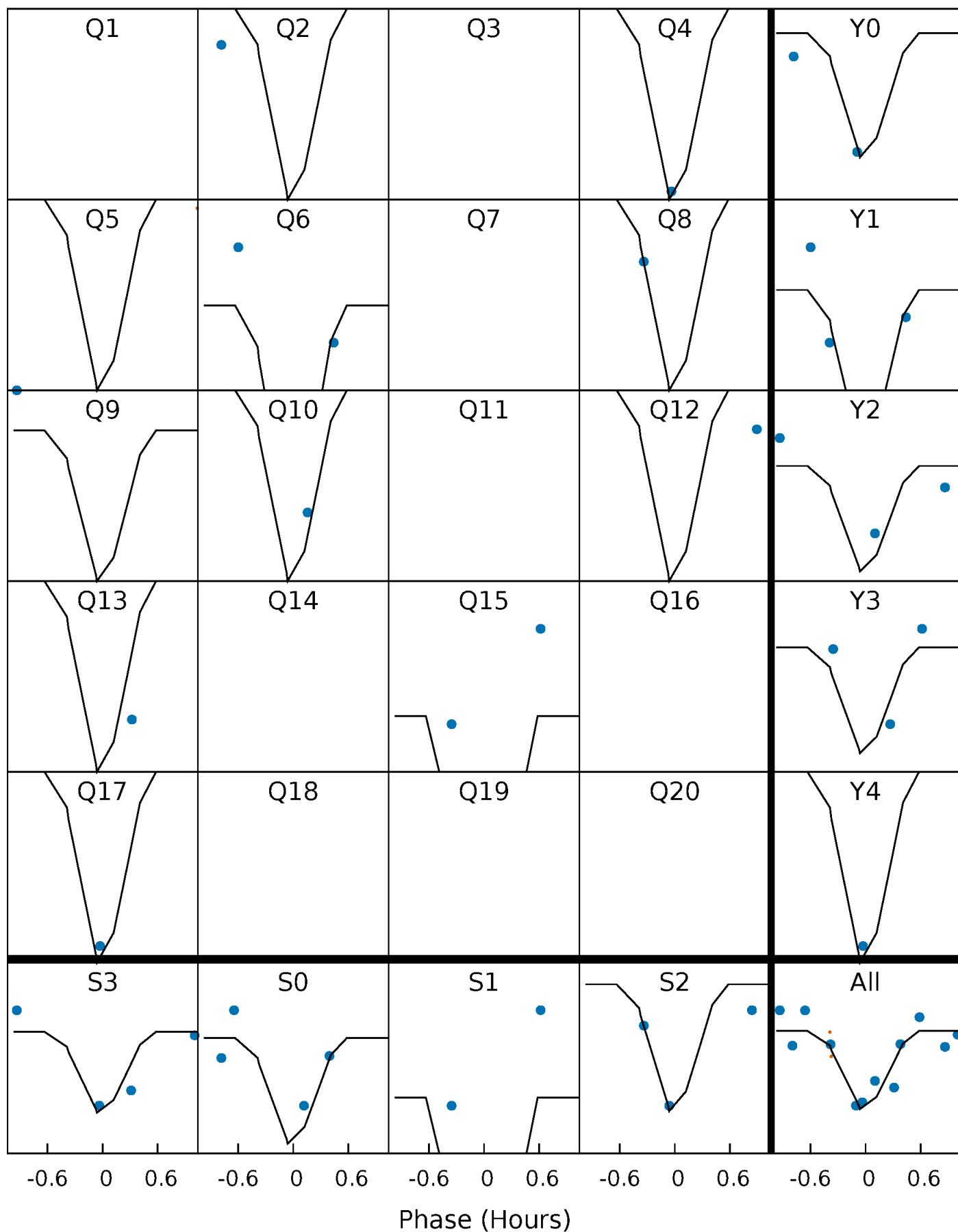
PDC Quarter-Phased Transit Curves

TCE 007031126-04 P= 14.045528 Days $T_0=141.433326$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007031126-04 P= 14.045528 Days $T_0=141.433326$ (BKJD)

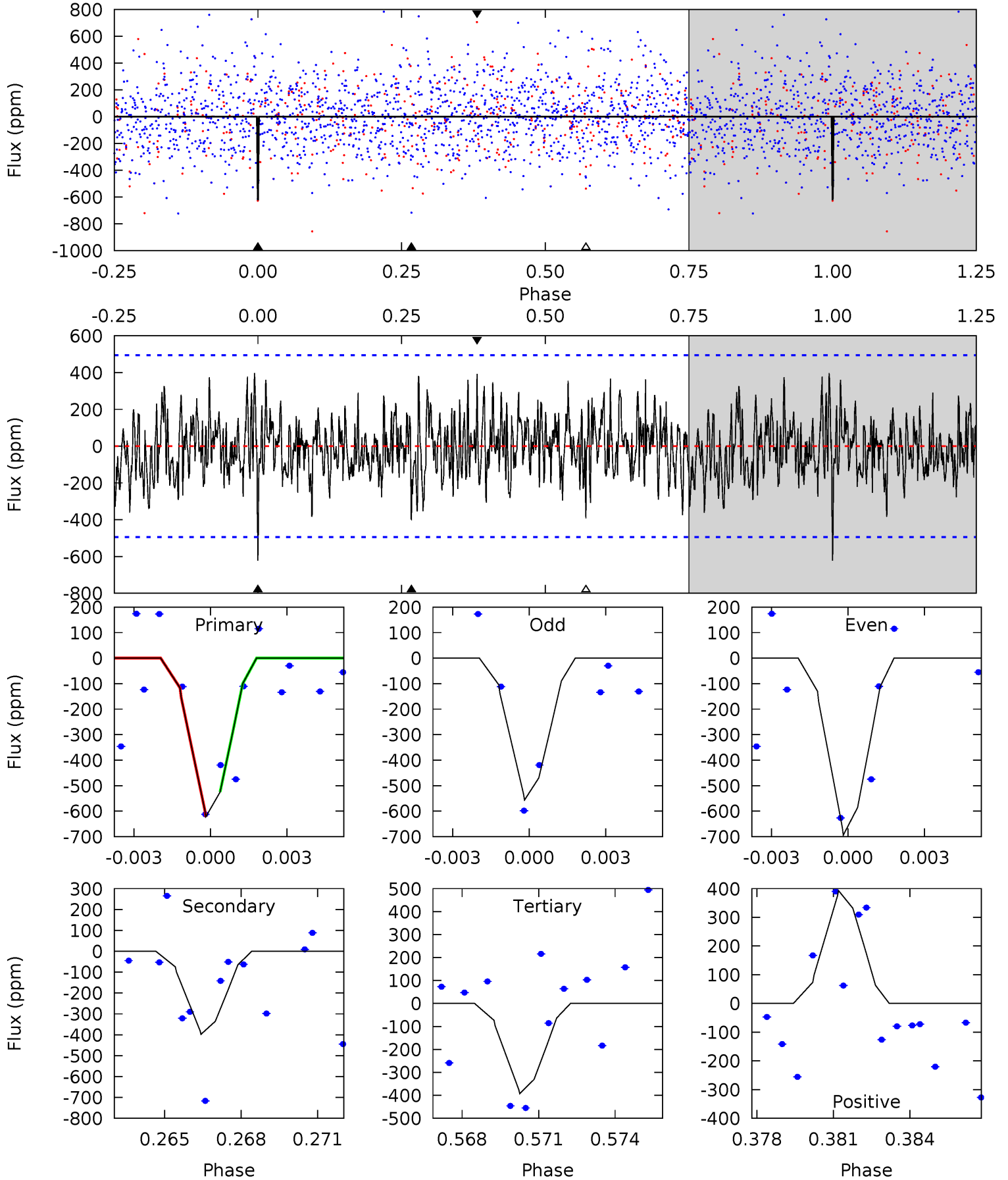


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007031126-04, P = 14.045528 Days, E = 127.387798 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.62	4.23	4.18	4.18	5.26	2.98	1.47	2.44	2.44	0.05	0.05	0.73	0	0.39	0.52



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-398 ± 94	$7.48^{+8.74}_{-5.08}$	1306^{+238}_{-216}	3912^{+2397}_{-693}	46^{+387}_{-36}
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

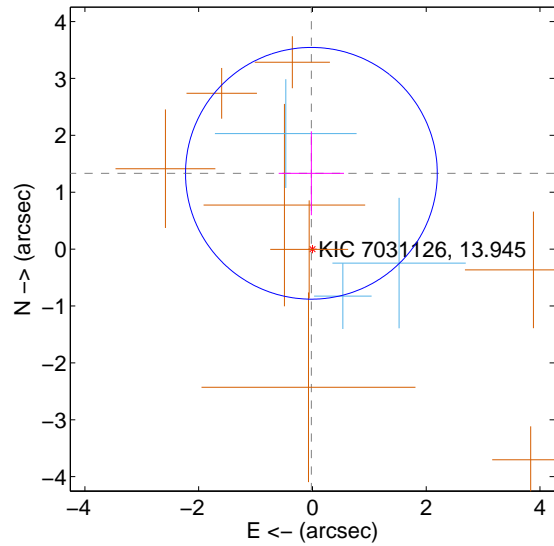
Supplemental centroid analysis for 007031126-04. Kepler magnitude: 13.95. Transit SNR 20.85

There are 3 quarters with good PRF difference image offsets

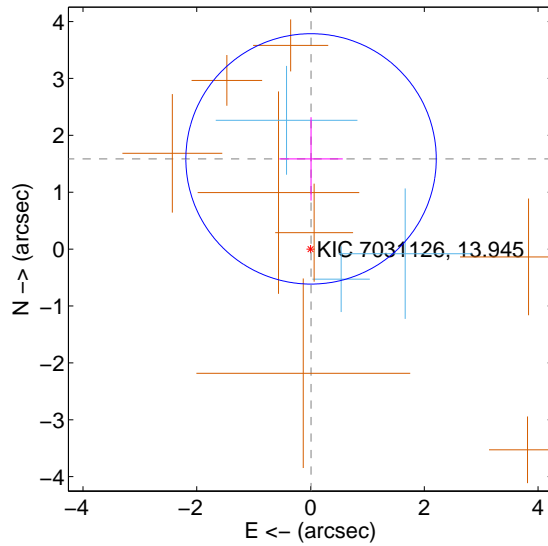
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.332 ± 0.737	1.81	0.018 ± 0.574	1.332 ± 0.737
PRF-fit source offset from KIC position	1.585 ± 0.733	2.16	-0.009 ± 0.558	1.585 ± 0.733
photometric centroid source offset	0.53 ± 0.39	1.38	0.42 ± 0.39	0.33 ± 0.38

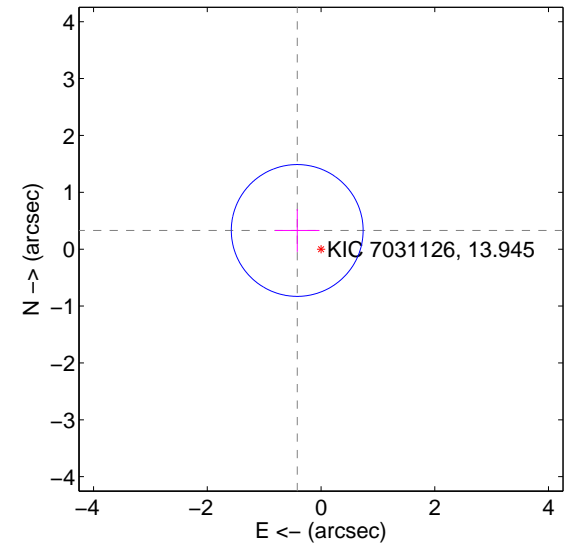
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

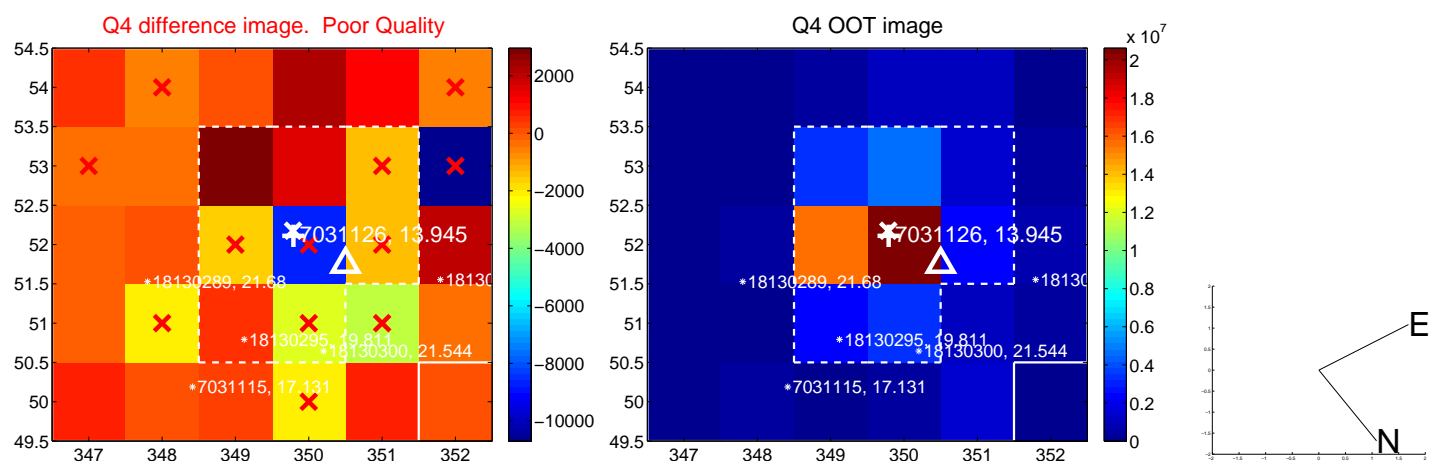
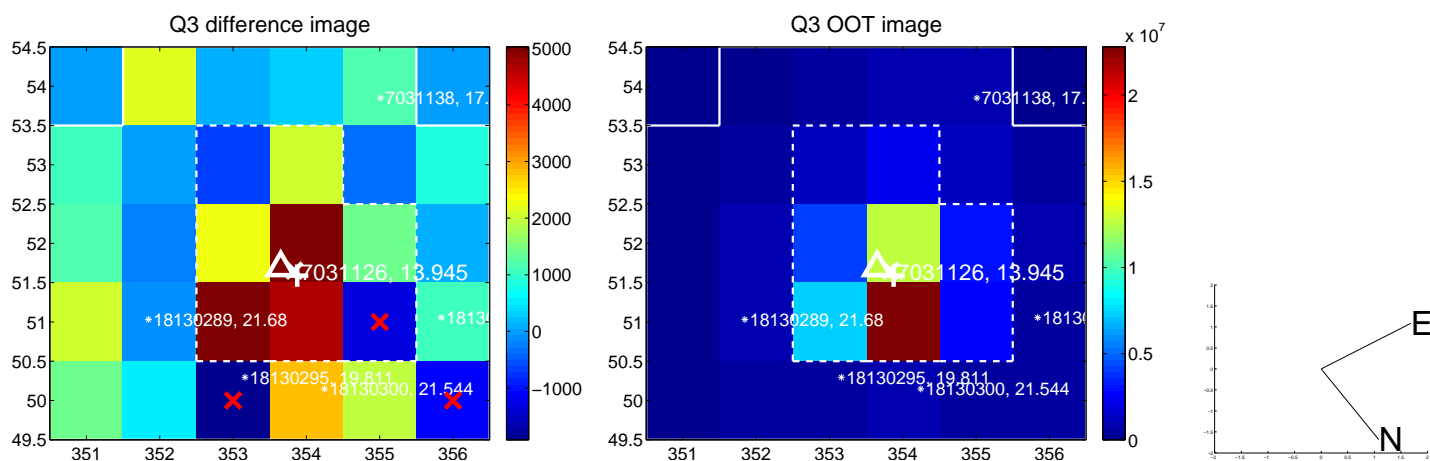
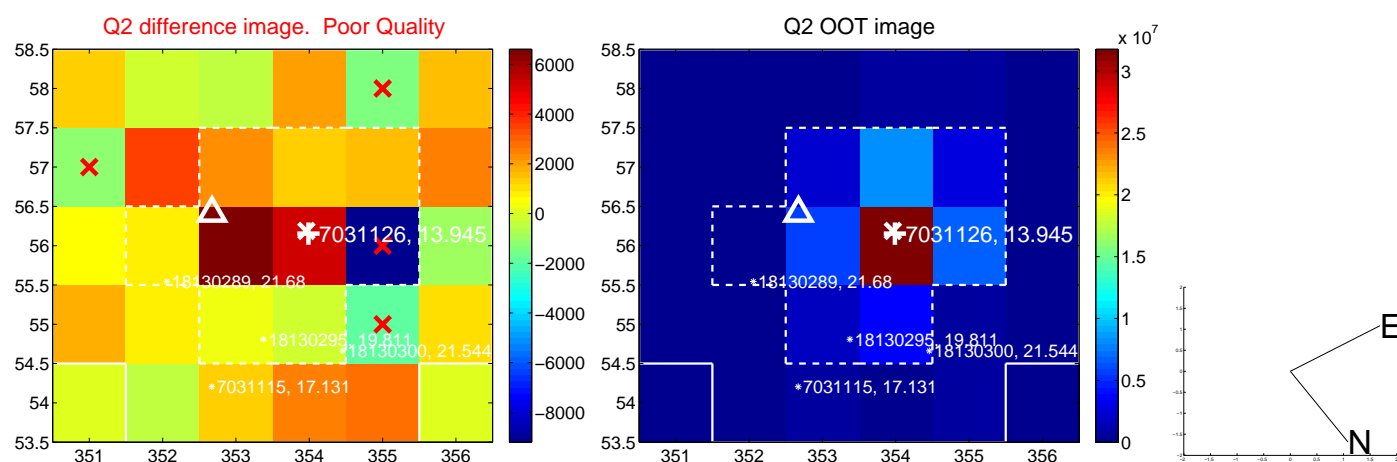
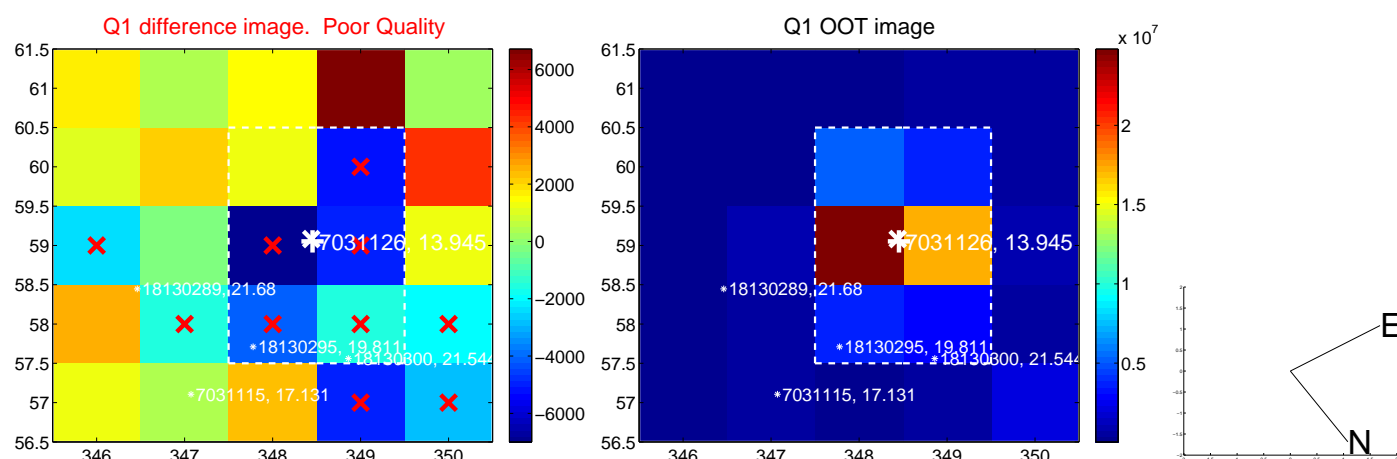


offset from photometric centroids

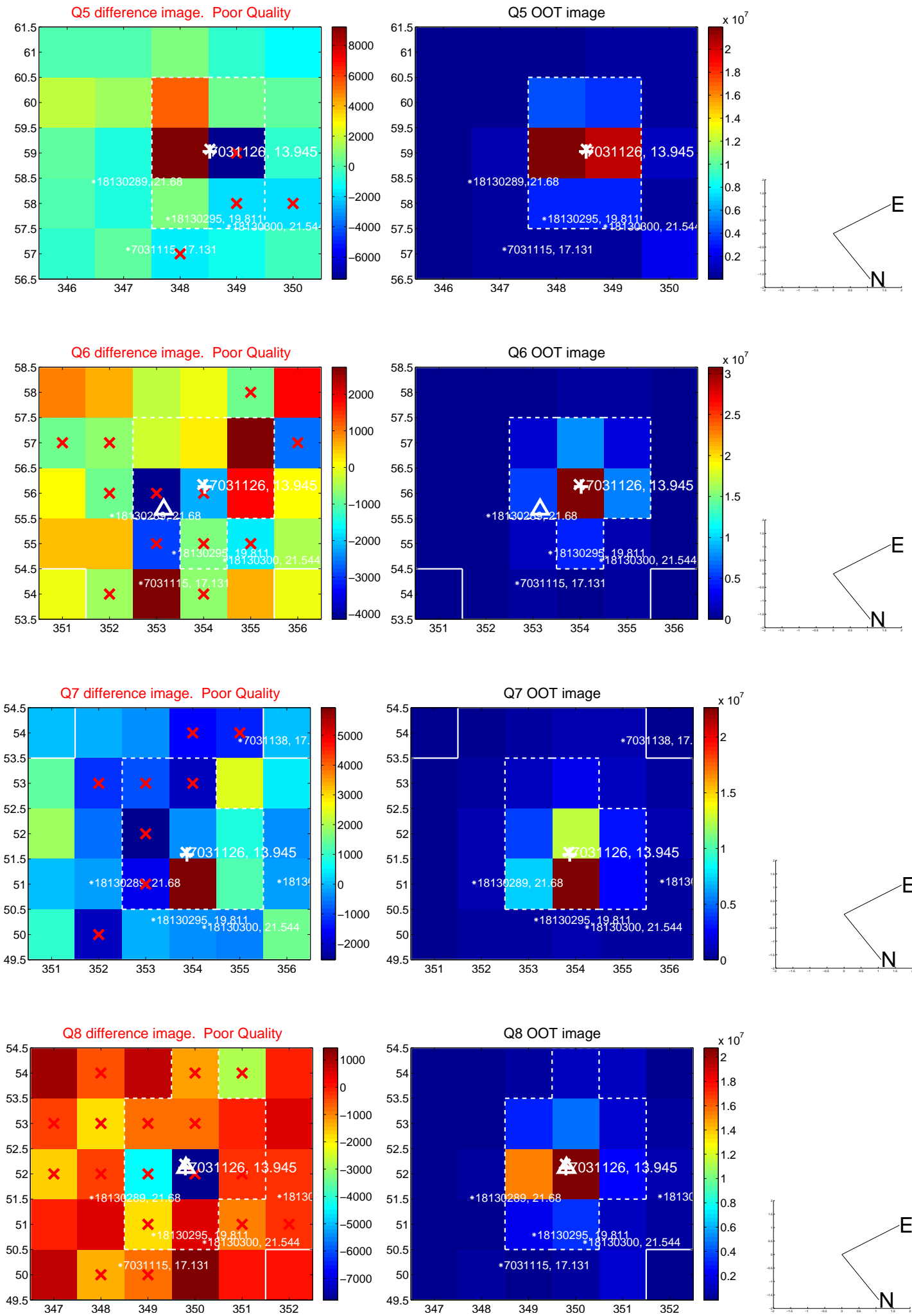


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

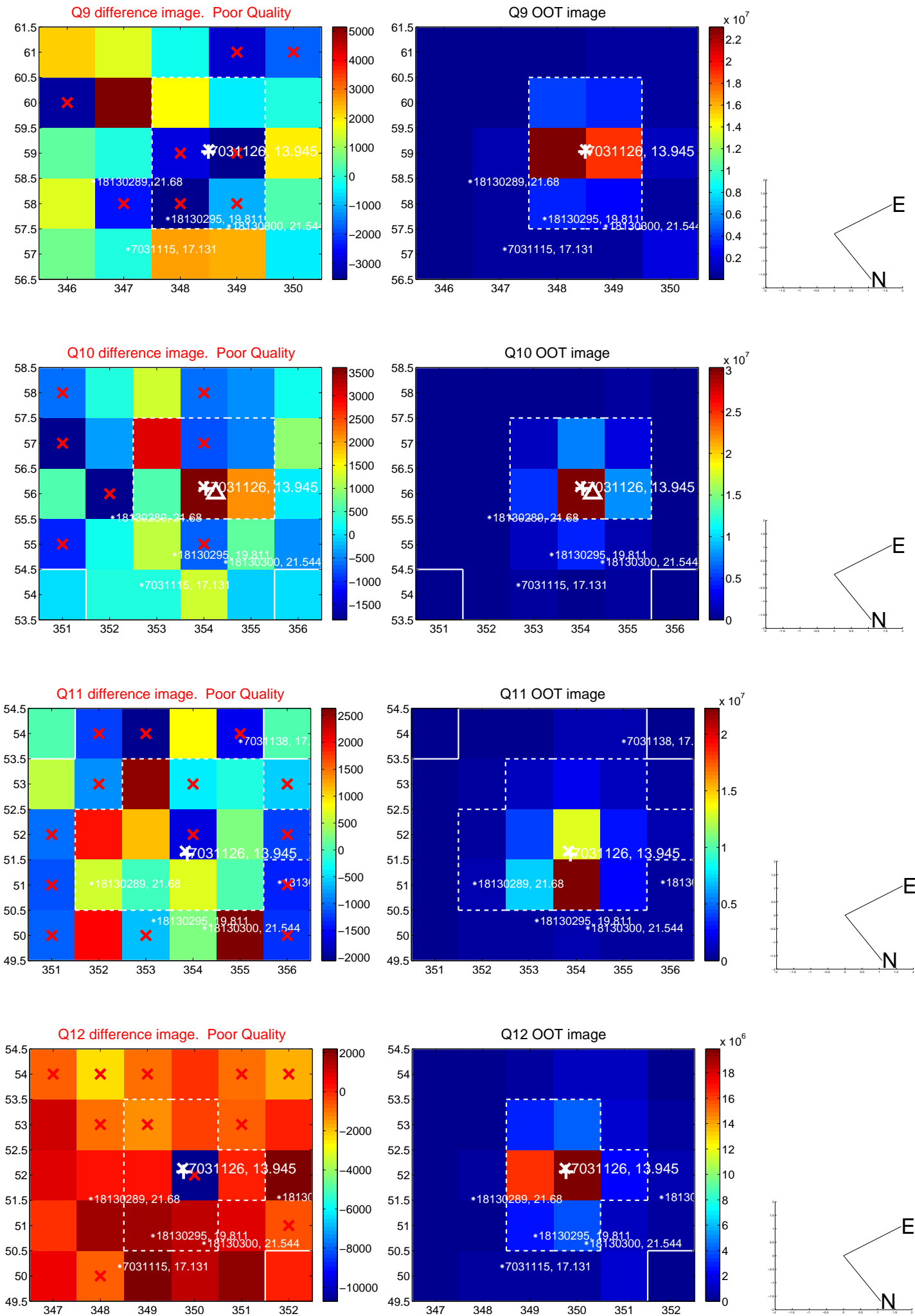
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



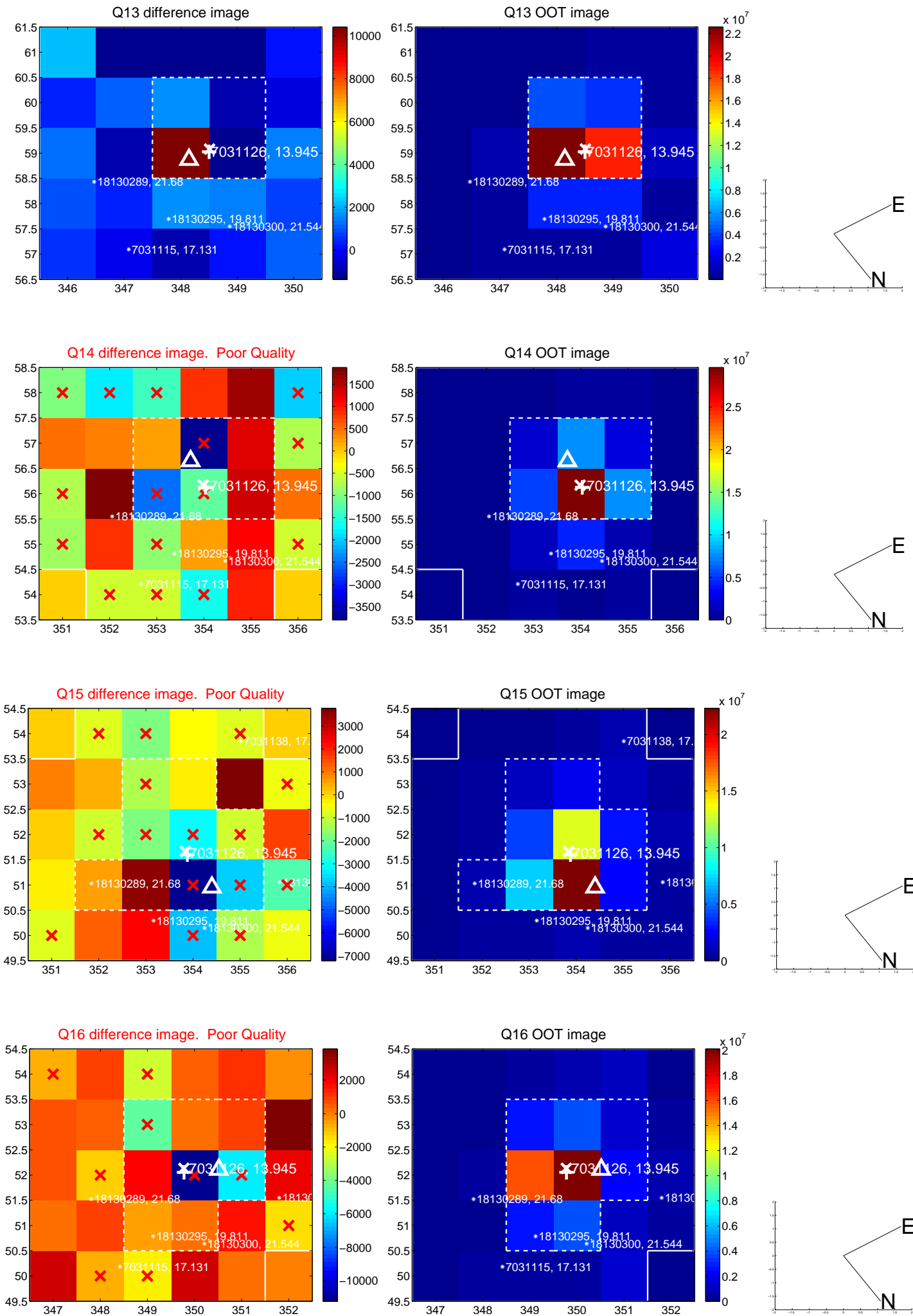
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



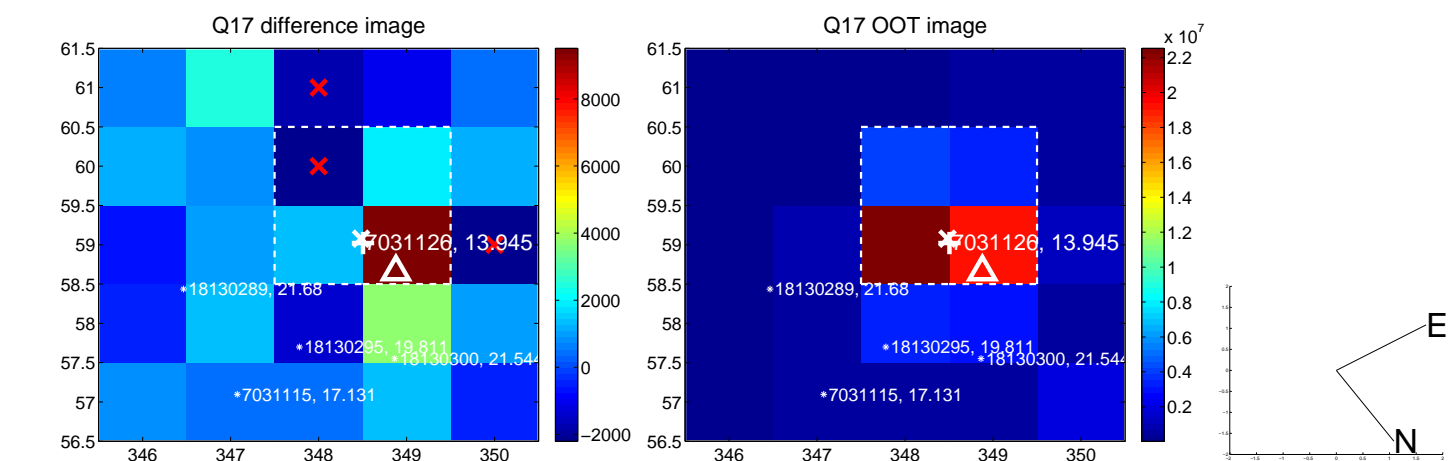
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



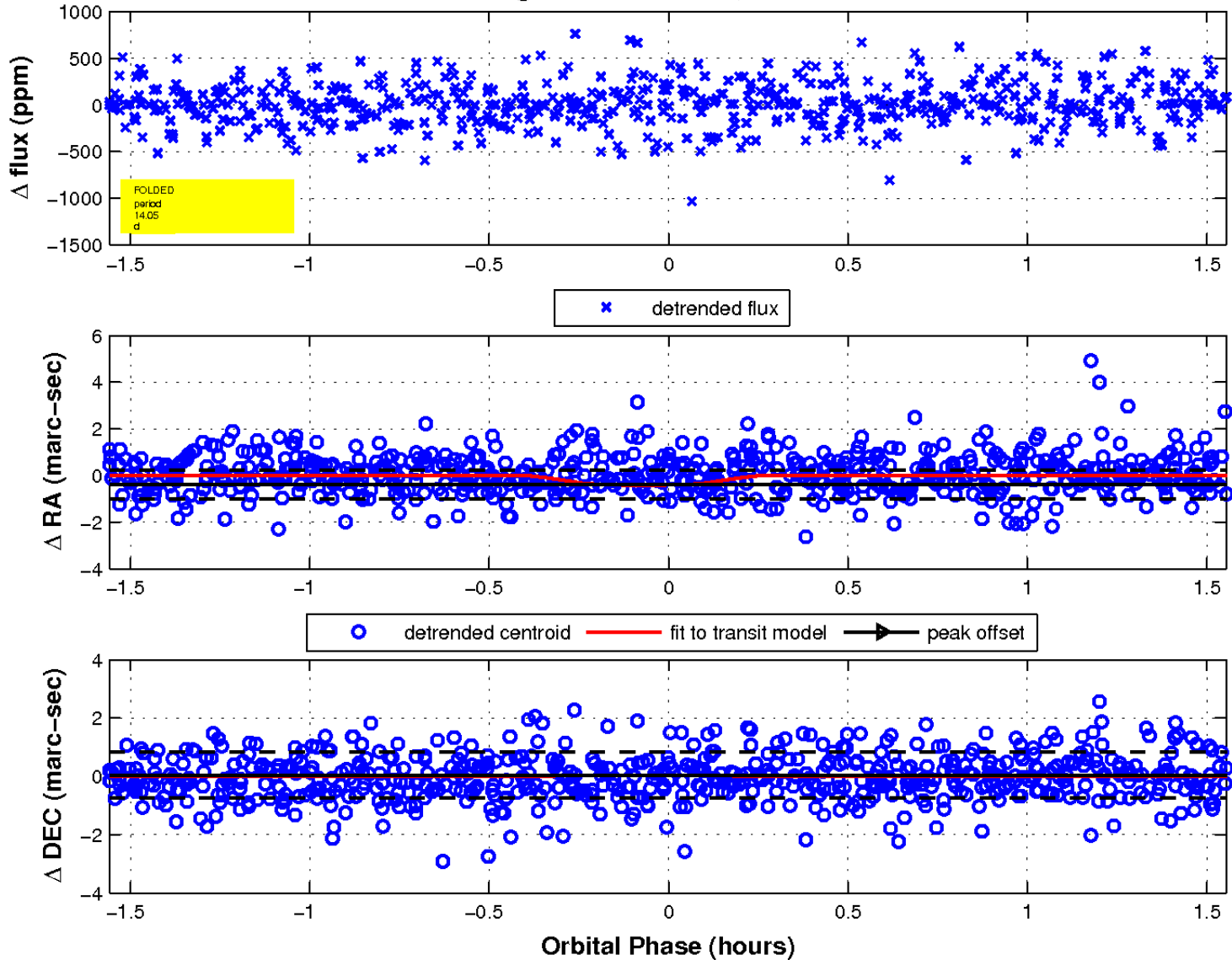
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

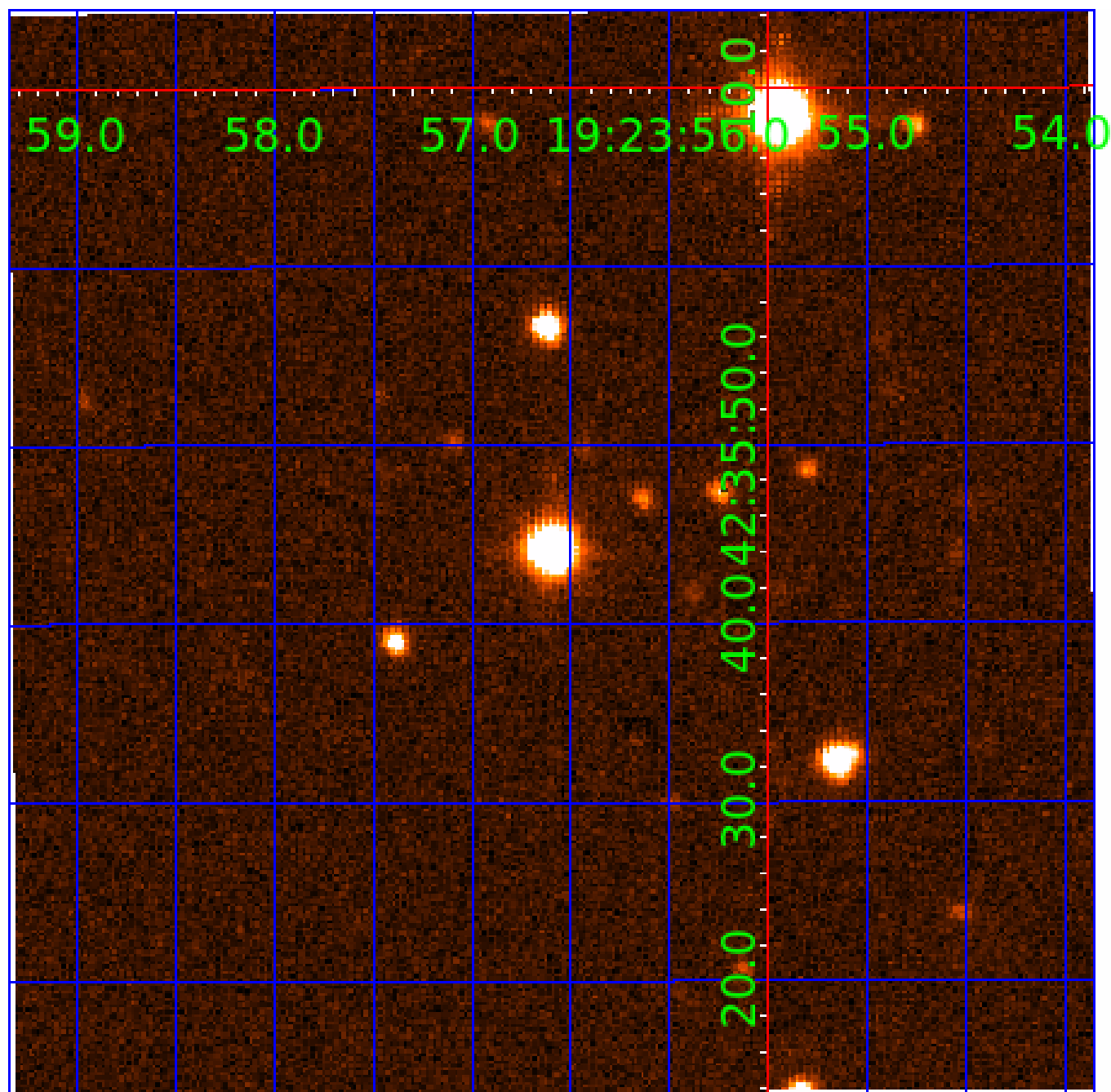


fluxWeightedCentroids, Planet 4 of 7



UKIRT Image

Declination



KIC 007031126

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})
007031126-01	OBS	7573.01	0.566742	131.882120	8.6	4.245	8.5	3.7	1.96	5102	0.56	14376.76
007031126-02	OBS	No	11.574048	134.284998	197.6	3.660	15.4	11.4	1.96	5102	2.72	257.55
007031126-03	OBS	No	7.676564	135.517245	835.1	1.500	13.6	-1.0	1.96	5102	5.56	445.26
007031126-04	OBS	No	14.045528	141.433326	716.5	0.520	15.9	20.8	1.96	5102	5.80	198.97
007031126-05	OBS	No	6.067112	134.420271	168.7	1.392	8.5	9.8	1.96	5102	2.50	609.35
007031126-06	OBS	No	3.112986	133.346365	122.0	1.246	10.8	8.4	1.96	5102	2.22	1483.45
007031126-07	OBS	No	14.125409	138.033325	160.6	3.353	11.9	8.6	1.96	5102	2.45	197.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007031126-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007031126-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV

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

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

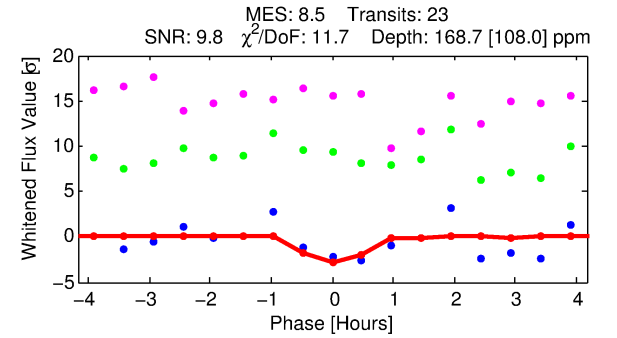
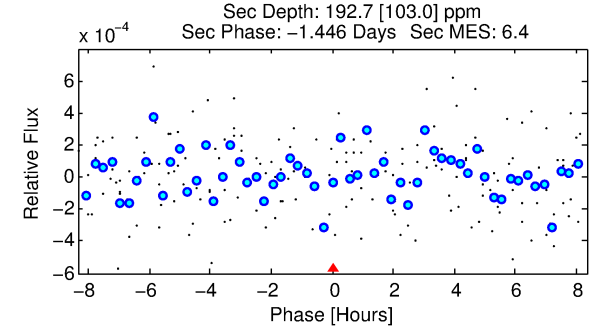
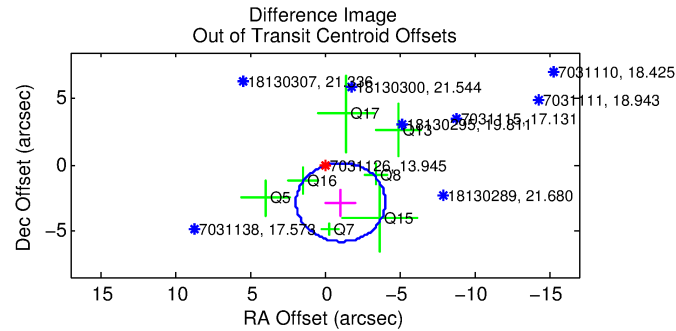
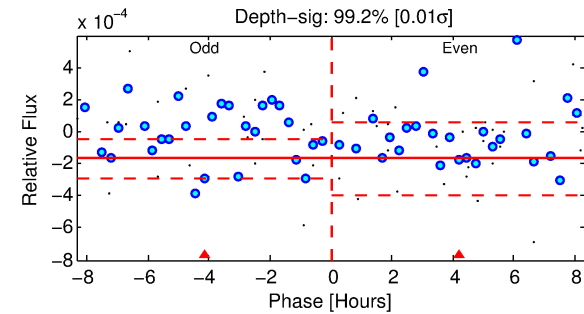
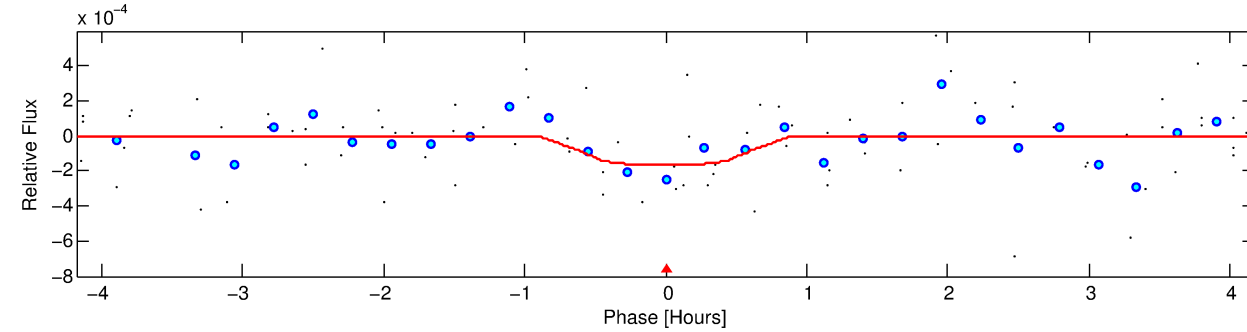
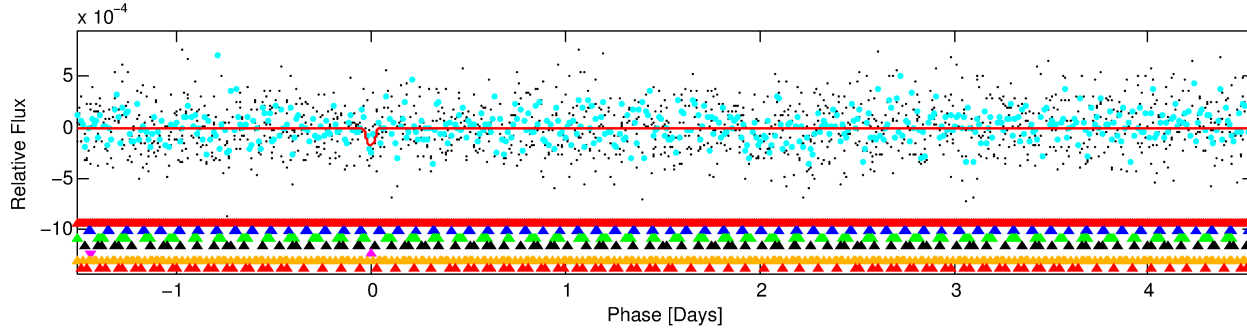
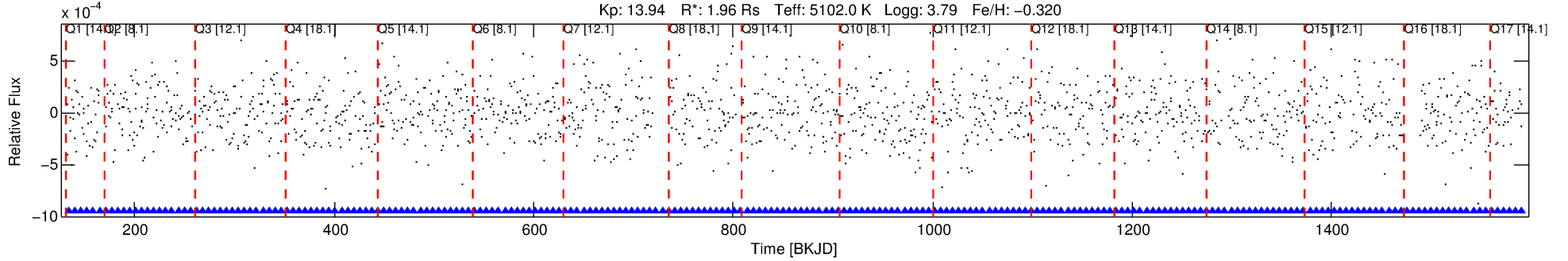
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007031126-05

No Significant Match Found

DV One-Page Summary

KIC: 7031126 Candidate: 5 of 7 Period: 6.067 d
KOI: K07573 Corr: No Ephemeris Match



DV Fit Results:

Period = 6.06711 [0.00013] d
Epoch = 134.4203 [0.0161] BKJD
Rp/R* = 0.0117 [0.3827]
a/R* = 33.59 [4031.93]
b = 0.07 [1648.64]
Seff = 609.35 [815.11]
Teq = 1267 [424] K
Rp = 2.50 [81.90] Re
a = 0.0619 [0.0475] AU
Ag = 65.08 [4267.48] [0.02σ]
Teffp = 5564 [91182] K [0.05σ]

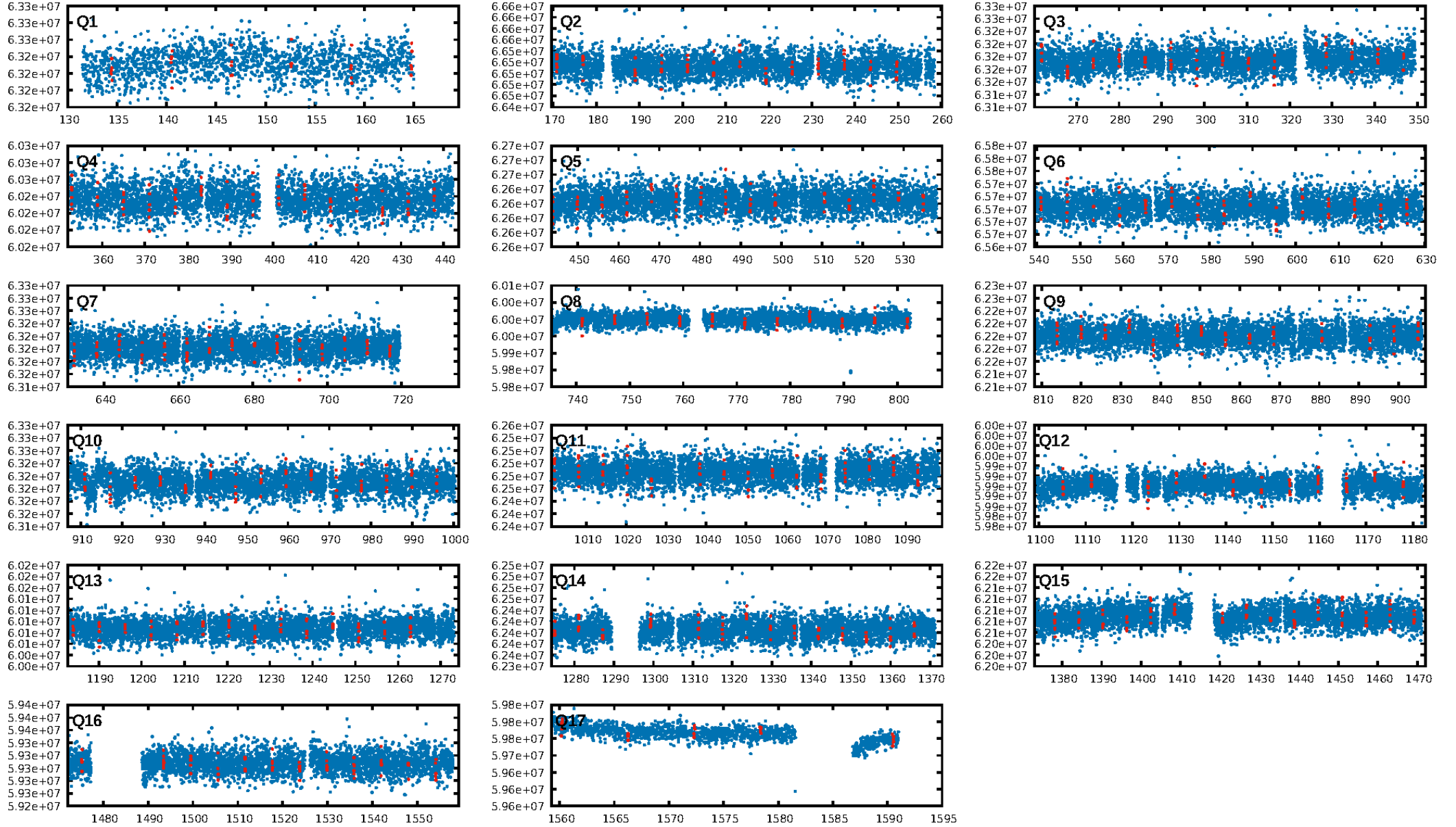
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [37.94σ]
LongPeriod-sig: 100.0% [18.87σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 7.58e-04
RollingBand-fgt: 1.00 [23/23]
GhostDiagnostic-chr: 1.388
Centroid-sig: 0.3%
Centroid-so: 1.781 arcsec [2.78σ]
OotOffset-rm: 3.037 arcsec [3.06σ]
OotOffset-st: 0/2/2/3 [7]
KicOffset-rm: 2.820 arcsec [2.81σ]
KicOffset-st: 0/2/2/3 [7]
DiffImageQuality-fgm: 0.00 [0/7]
DiffImageOverlap-fno: 0.00 [0/17]

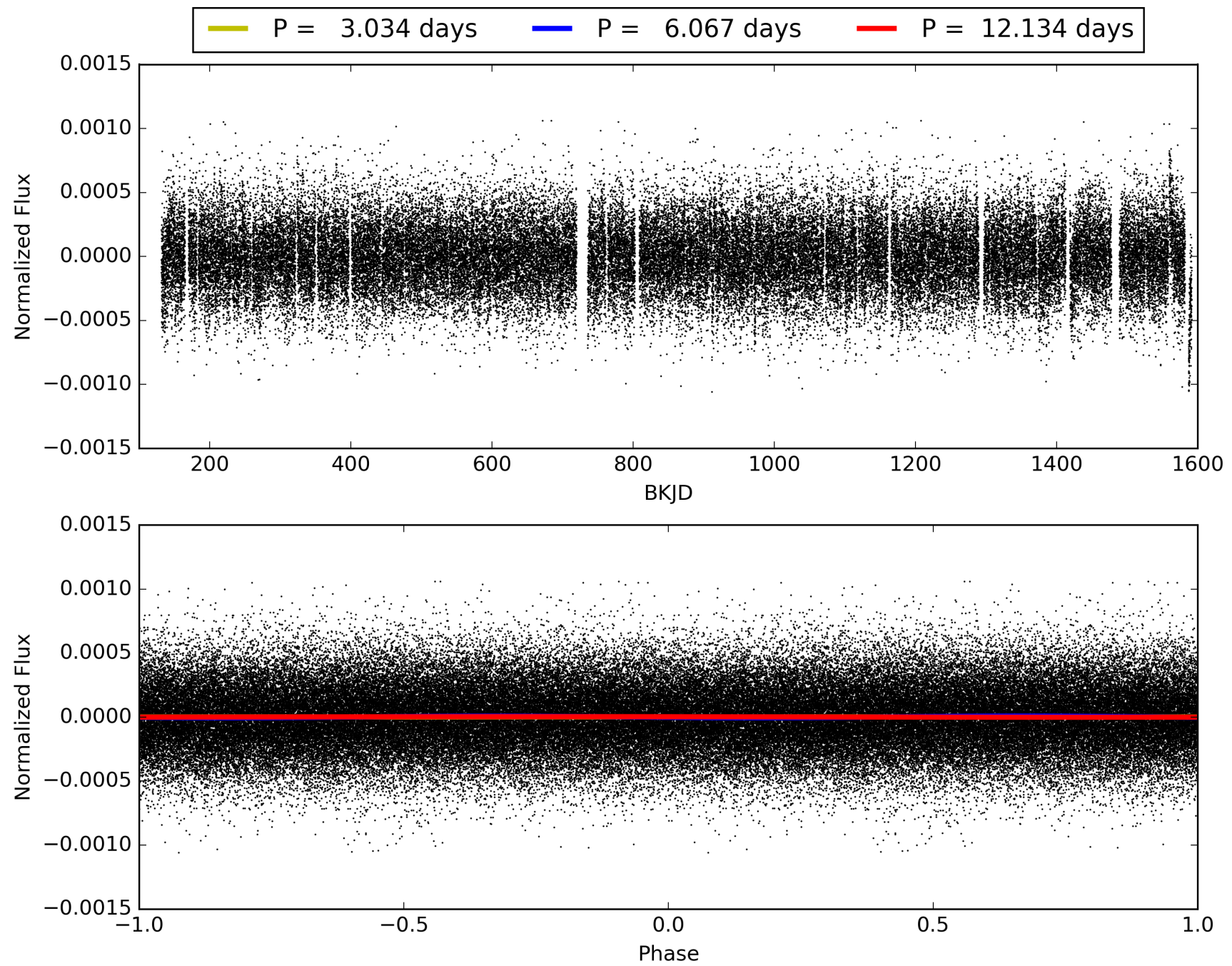
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:10:33 Z

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

TCE 007031126-05, PDC Light Curves

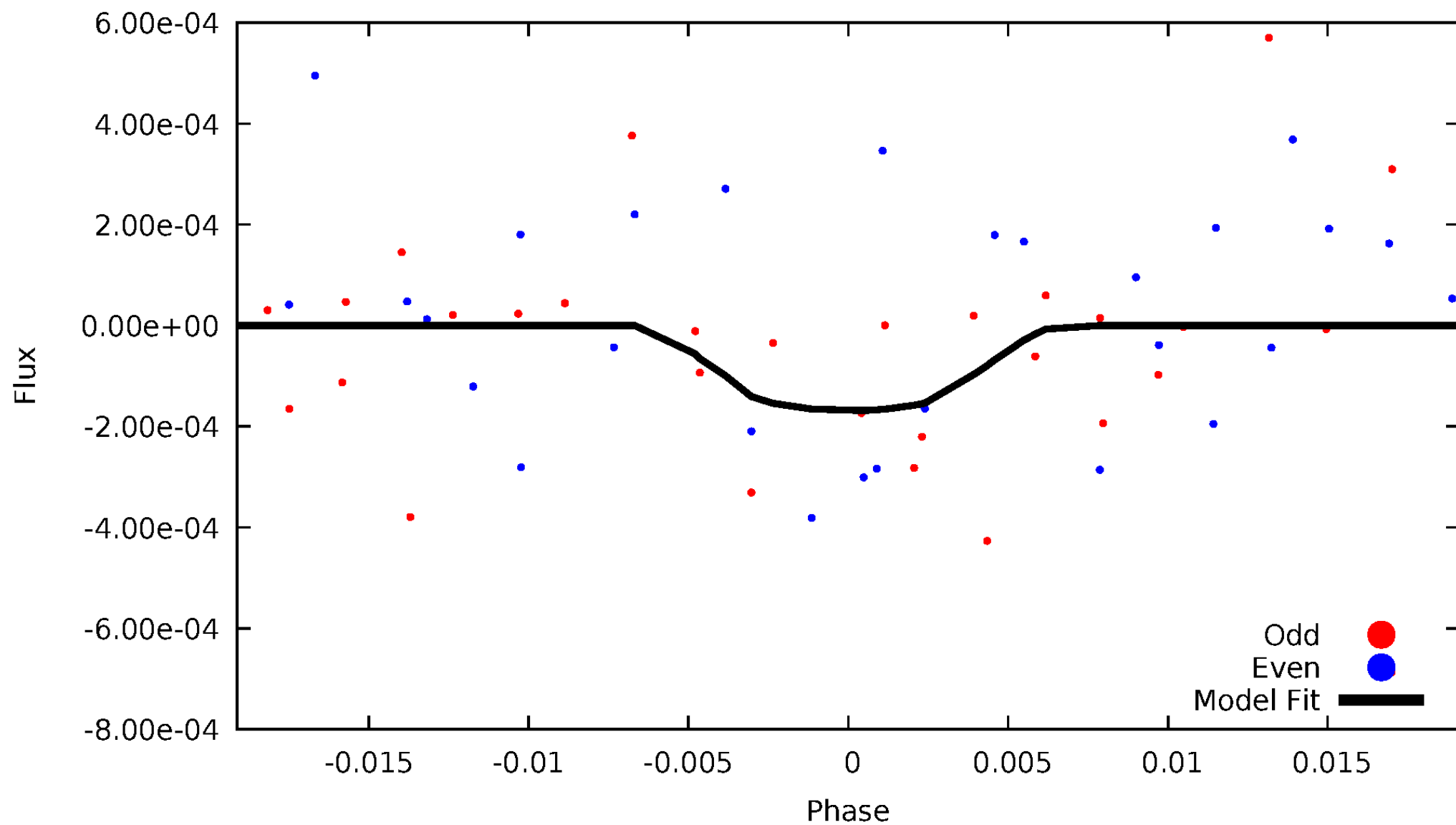


TCE 007031126-05



DV Odd/Even

TCE 007031126-05

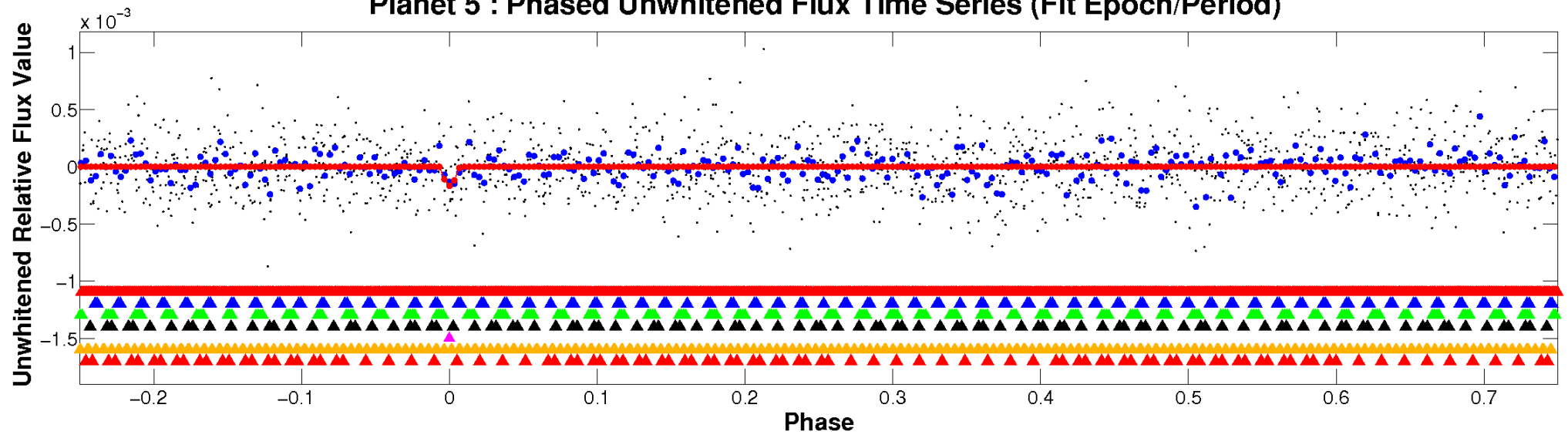


ALT Odd/Even

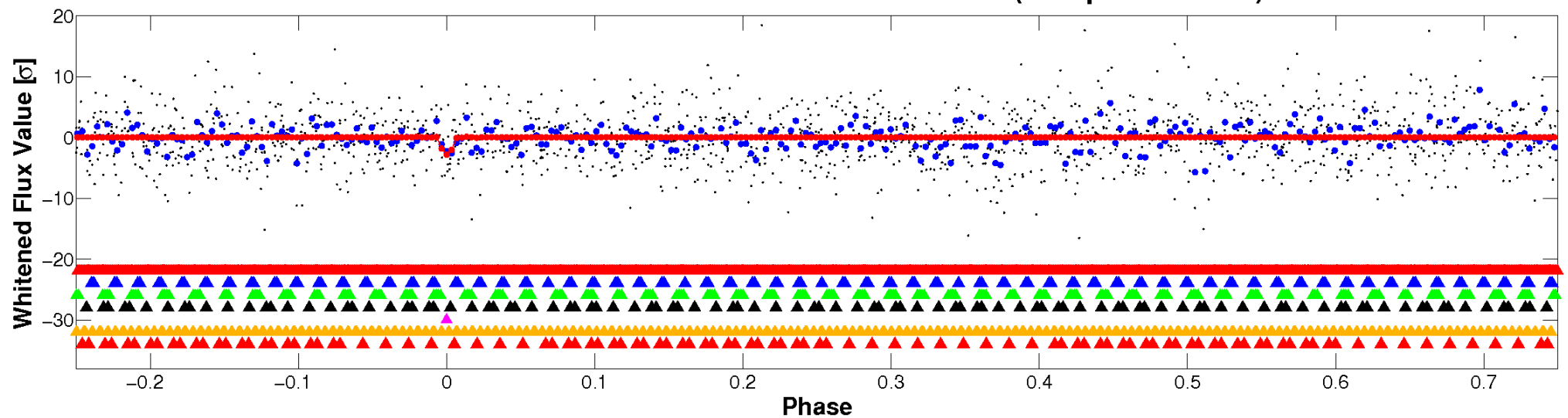
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

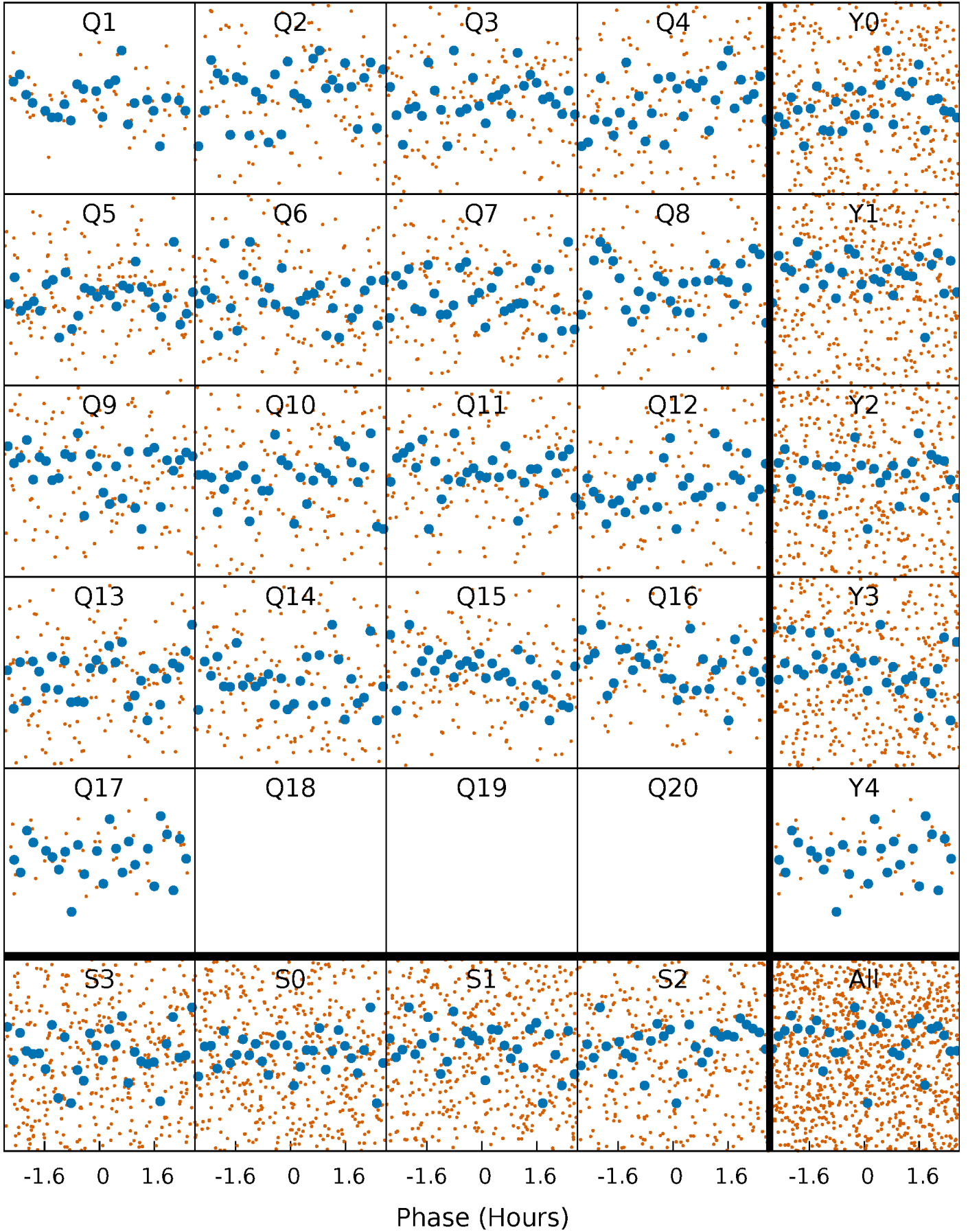


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



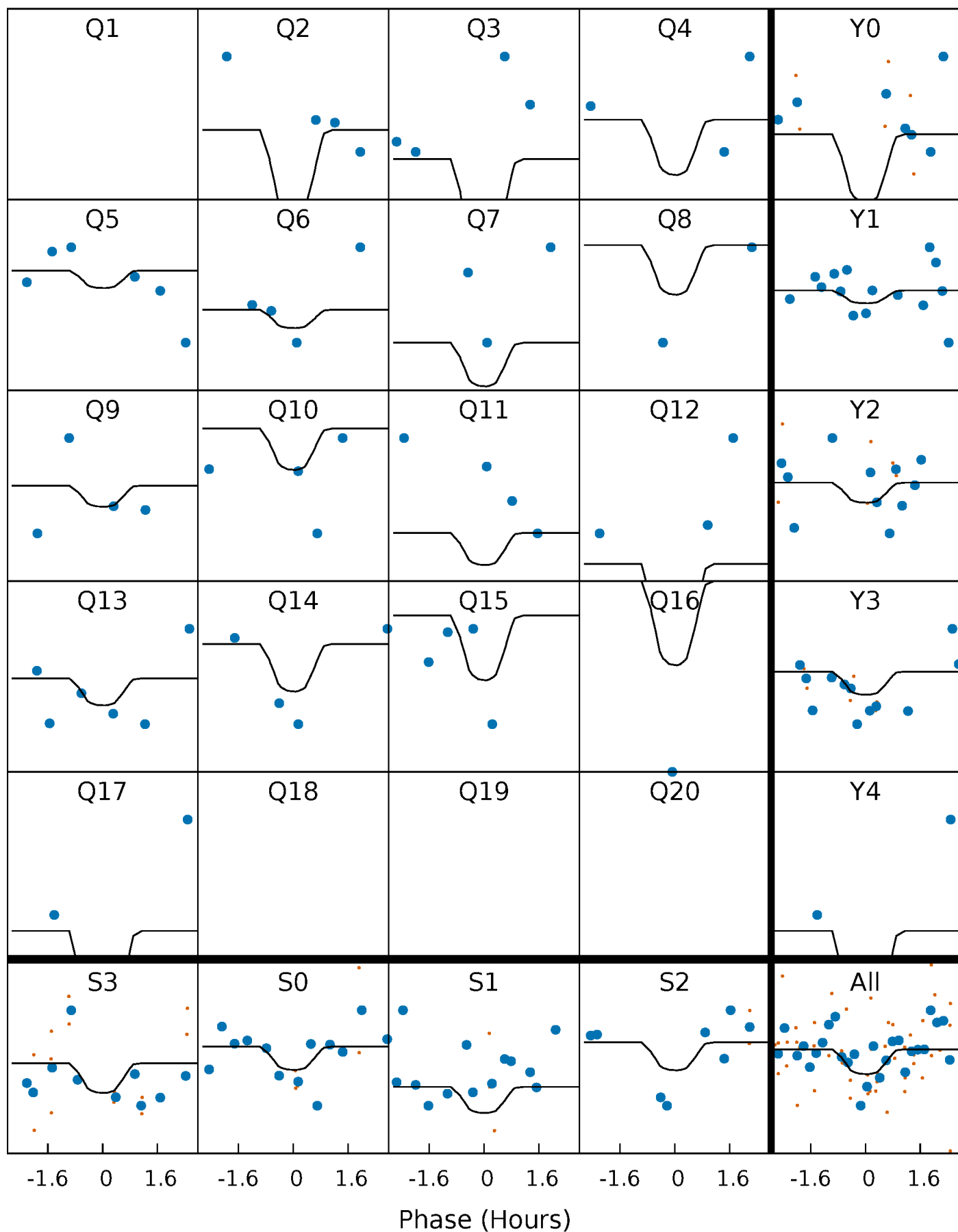
PDC Quarter-Phased Transit Curves

TCE 007031126-05 P= 6.067112 Days $T_0=134.420271$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007031126-05 P= 6.067112 Days $T_0=134.420271$ (BKJD)

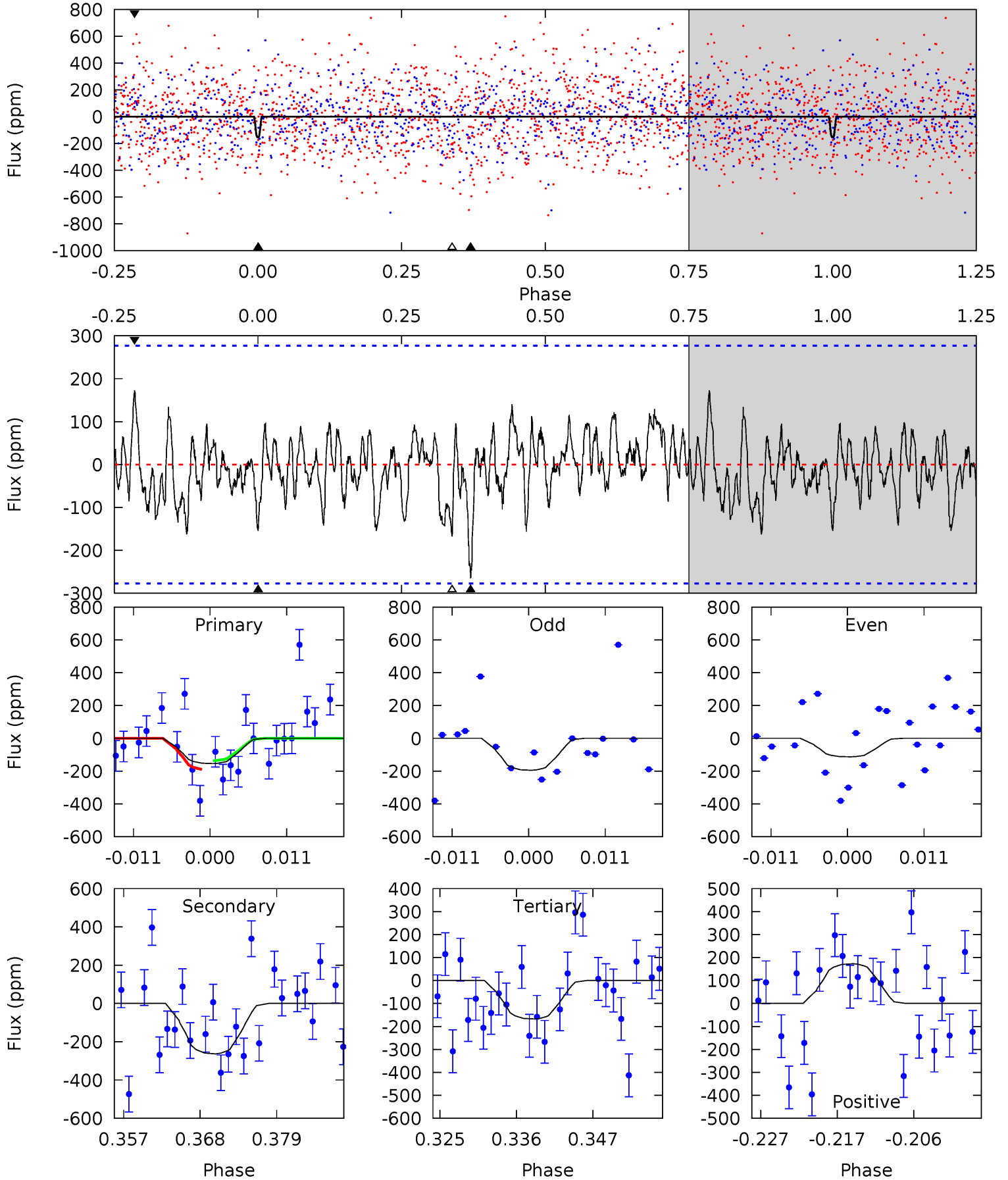


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007031126-05, P = 6.067112 Days, E = 128.353159 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.79	4.76	3.03	3.13	5.01	2.55	1.11	-0.24	-0.33	1.73	1.64	0.74	0	0.40	0.44



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-263 ± 55	$50.28^{+71.76}_{-36.51}$	1726^{+297}_{-320}	-1937^{+4863}_{-437}	$0.213^{+2.834}_{-0.177}$
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

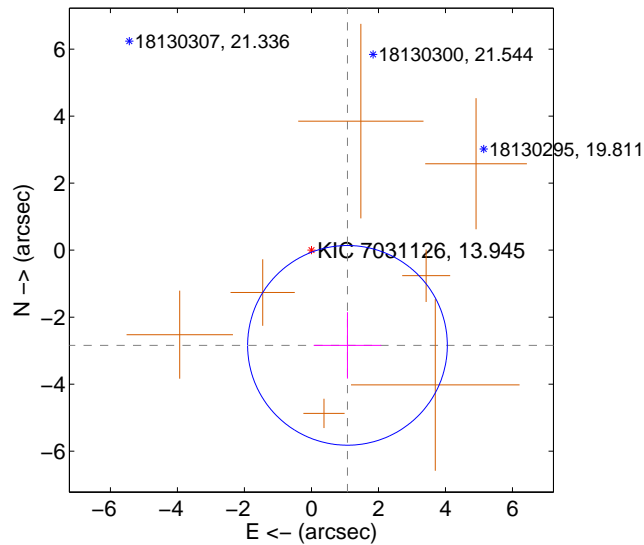
Supplemental centroid analysis for 007031126-05. Kepler magnitude: 13.95. Transit SNR 9.79

There are 0 quarters with good PRF difference image offsets

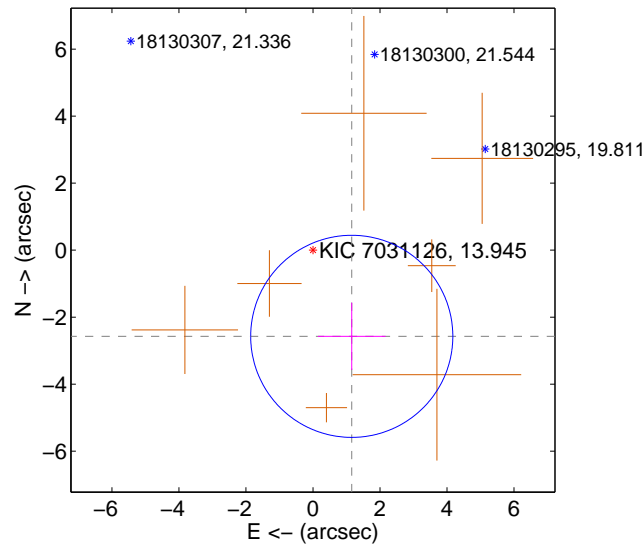
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.037 ± 0.993	3.06	-1.075 ± 1.008	-2.841 ± 0.991
PRF-fit source offset from KIC position	2.820 ± 1.005	2.81	-1.157 ± 1.010	-2.571 ± 1.004
photometric centroid source offset	1.78 ± 0.64	2.78	-1.26 ± 0.65	1.26 ± 0.63

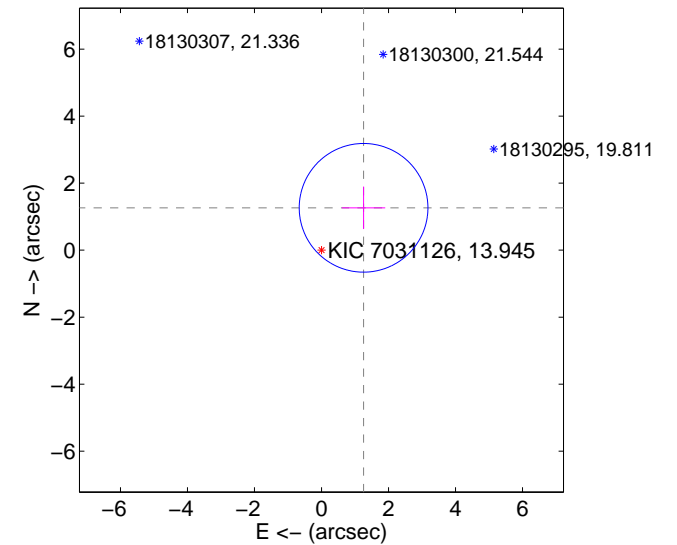
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

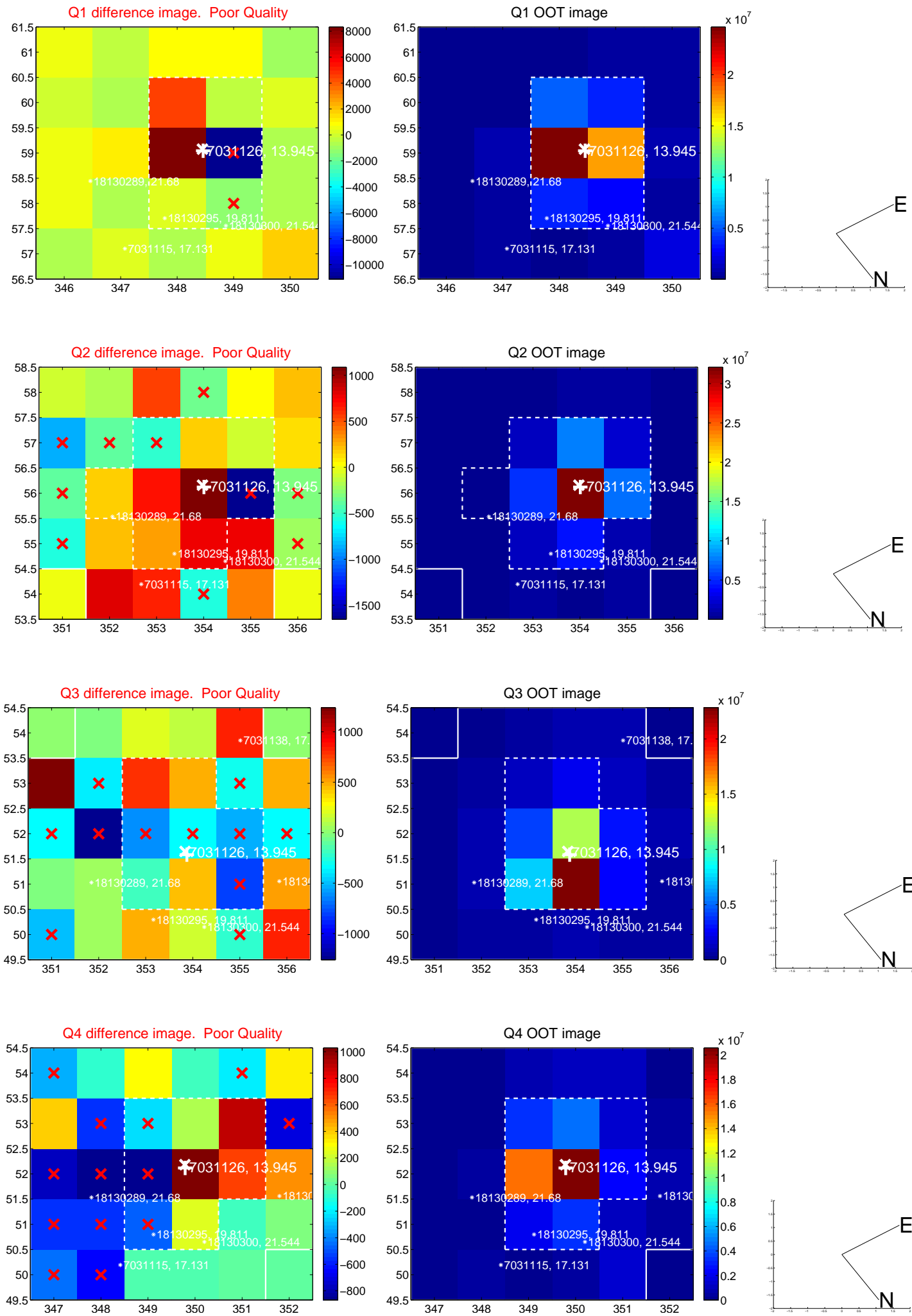


offset from photometric centroids

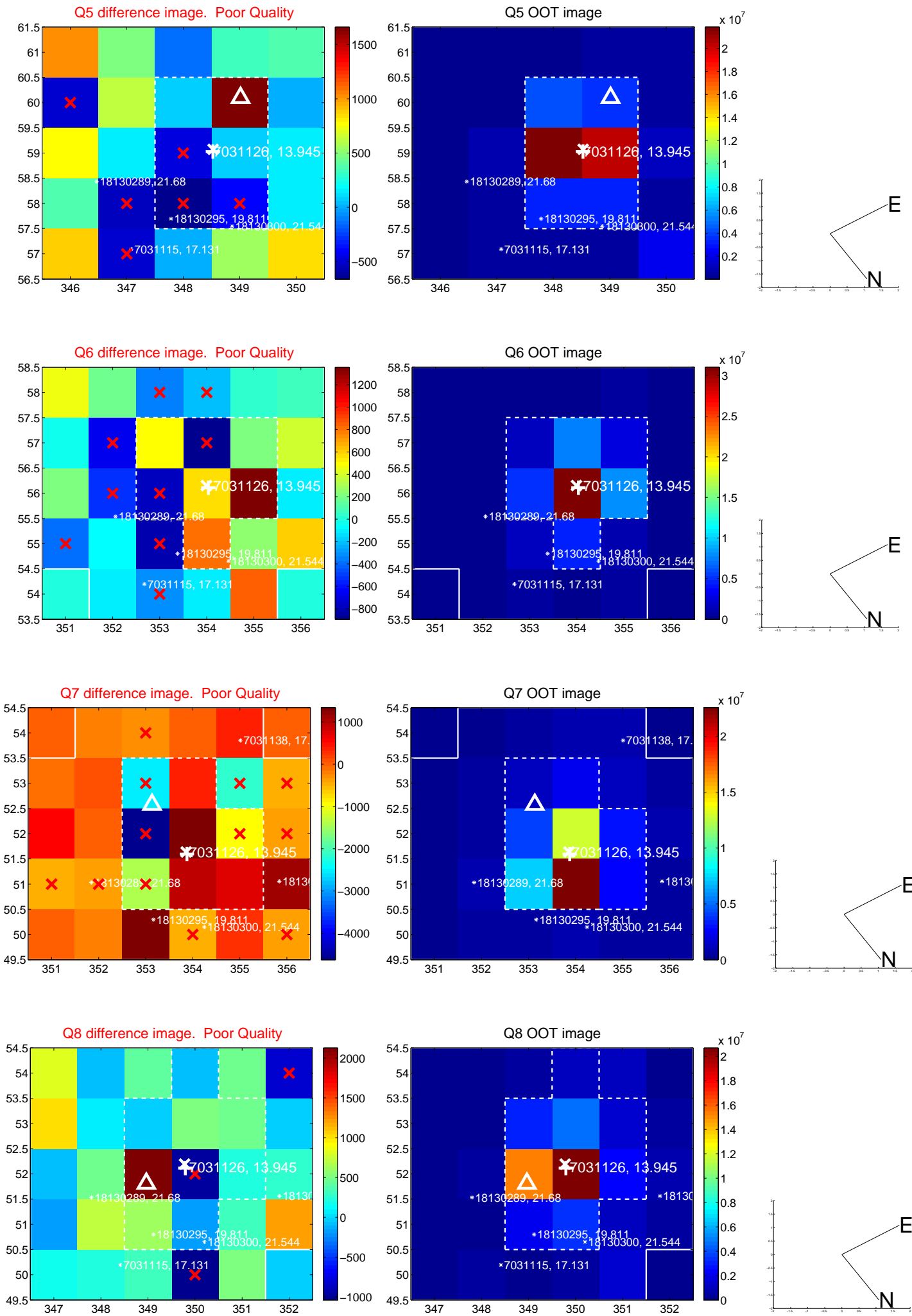


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

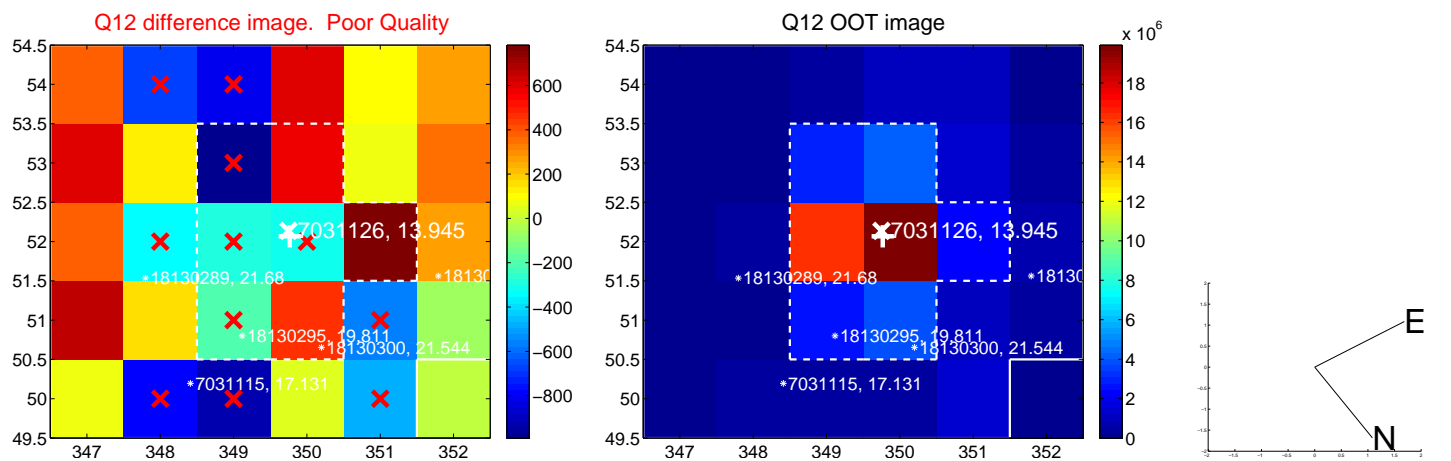
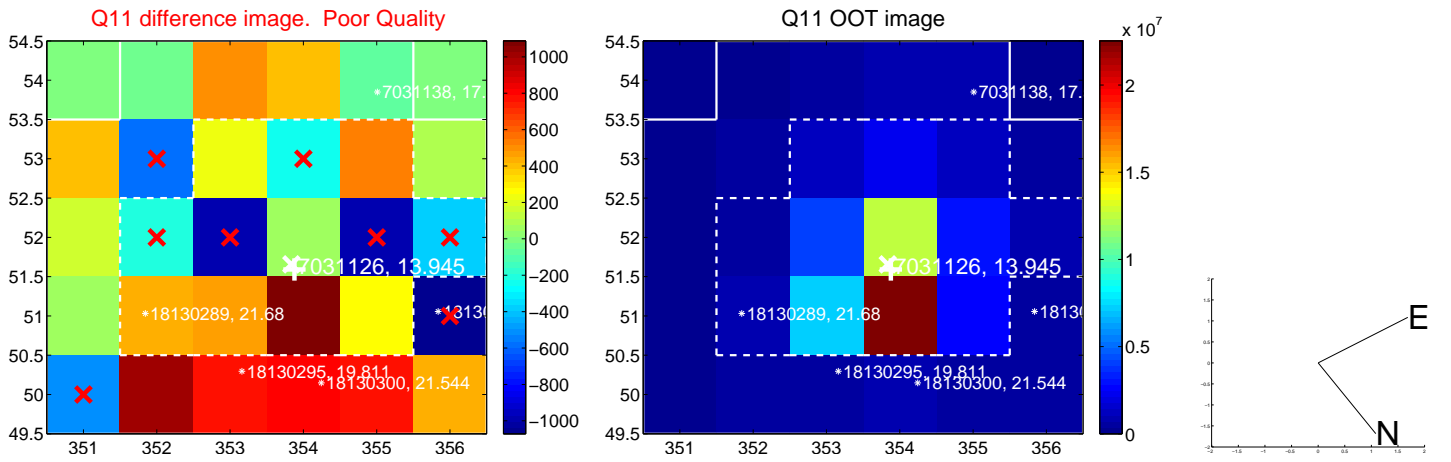
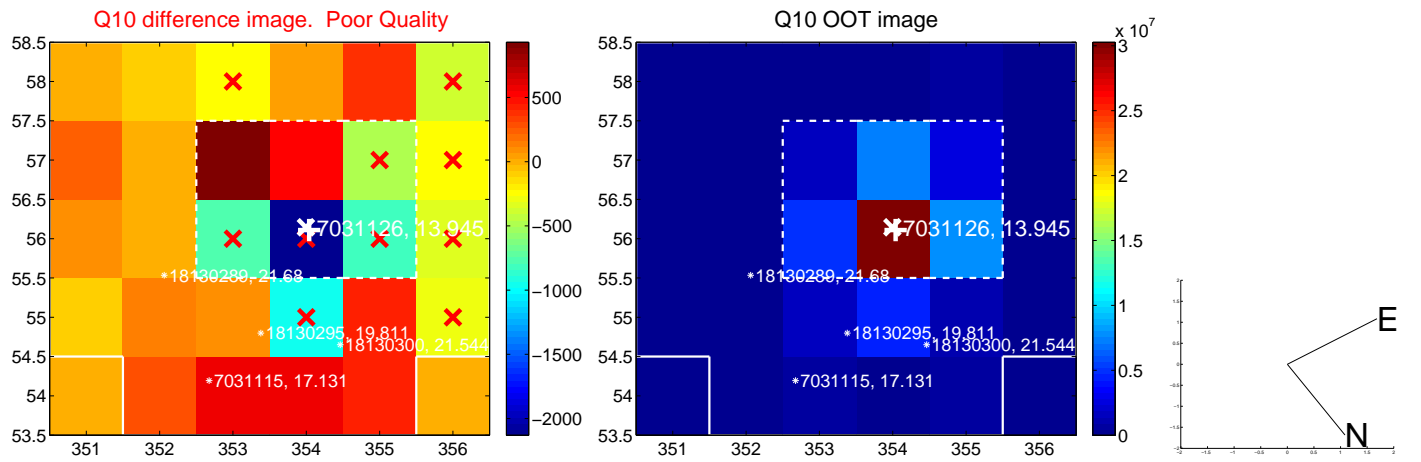
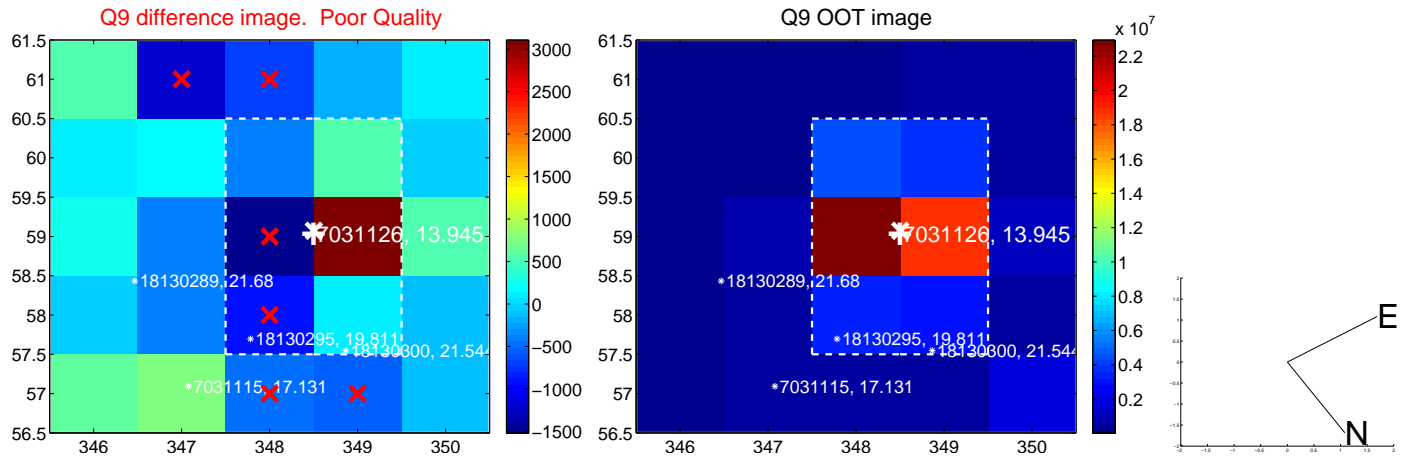
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



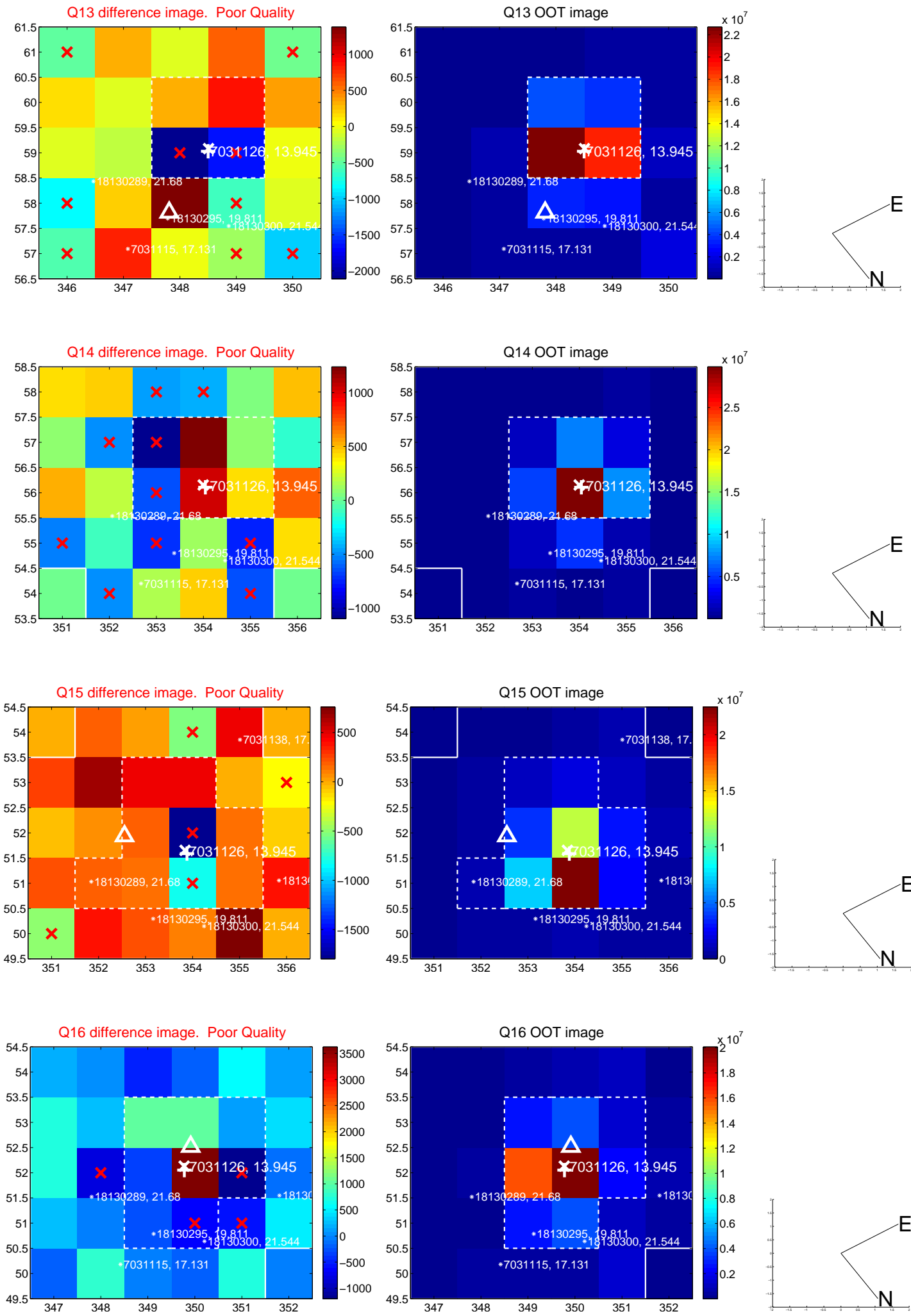
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



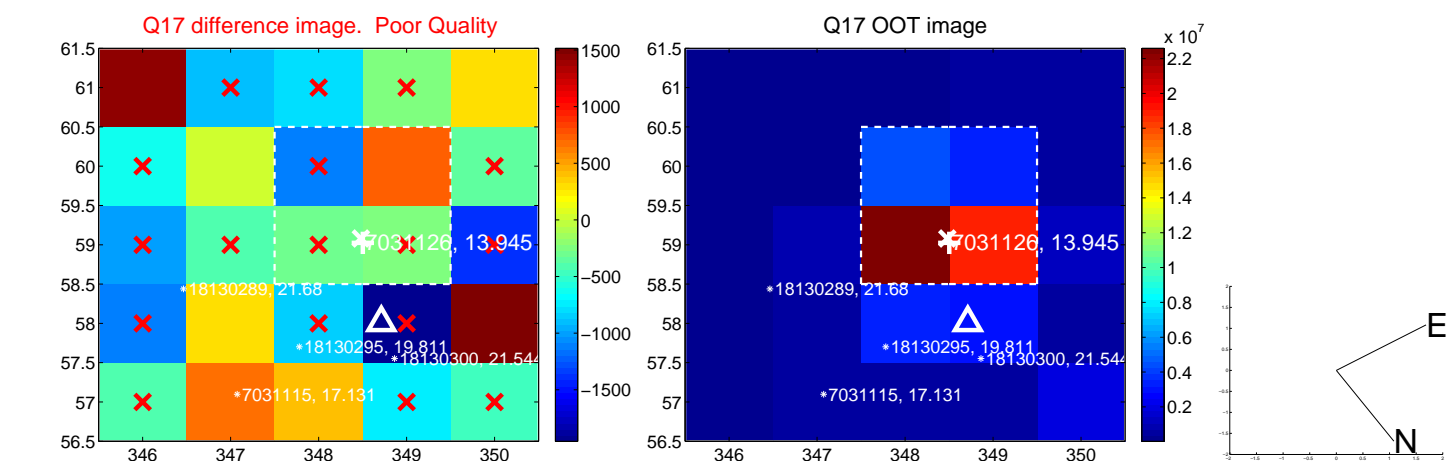
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



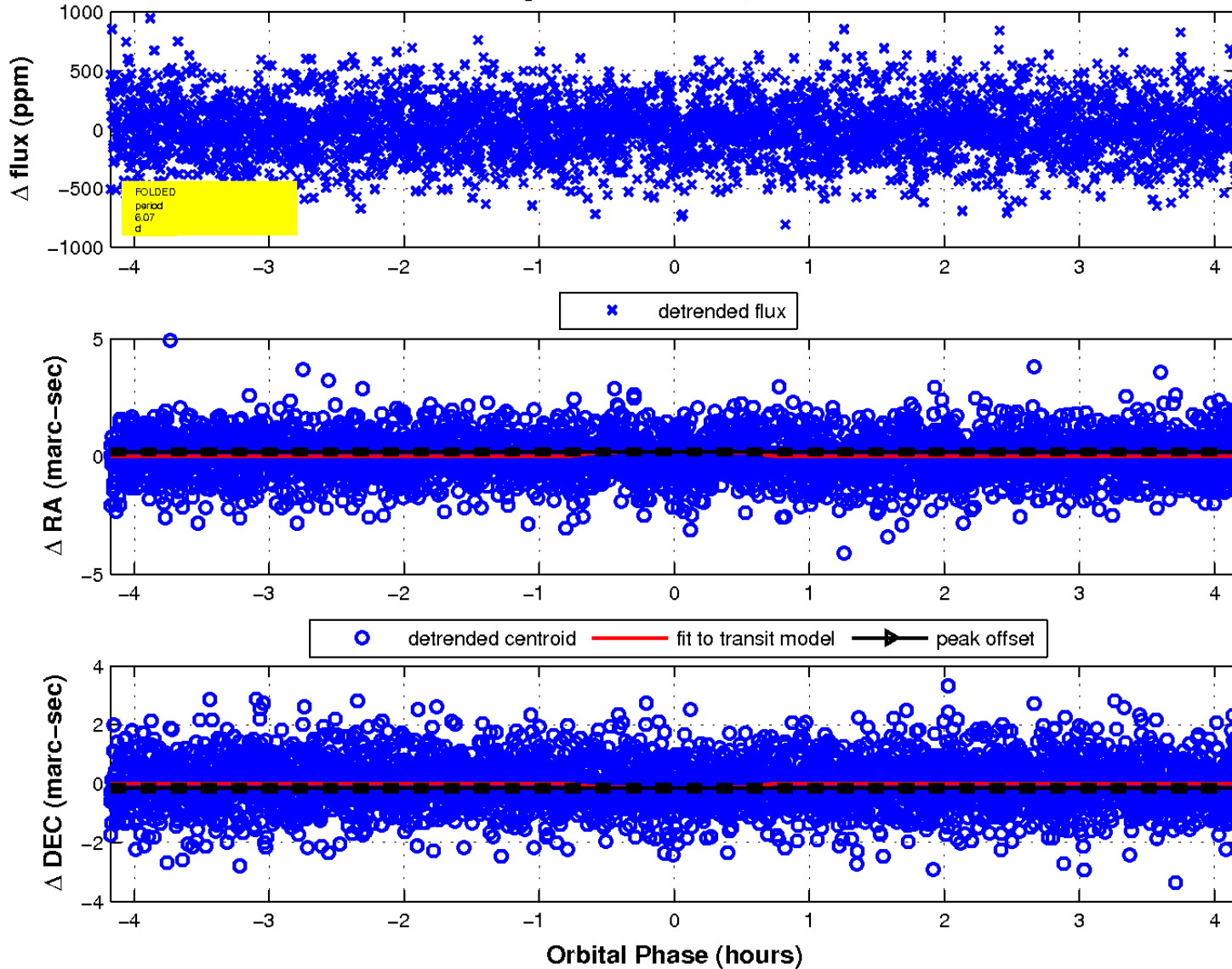
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

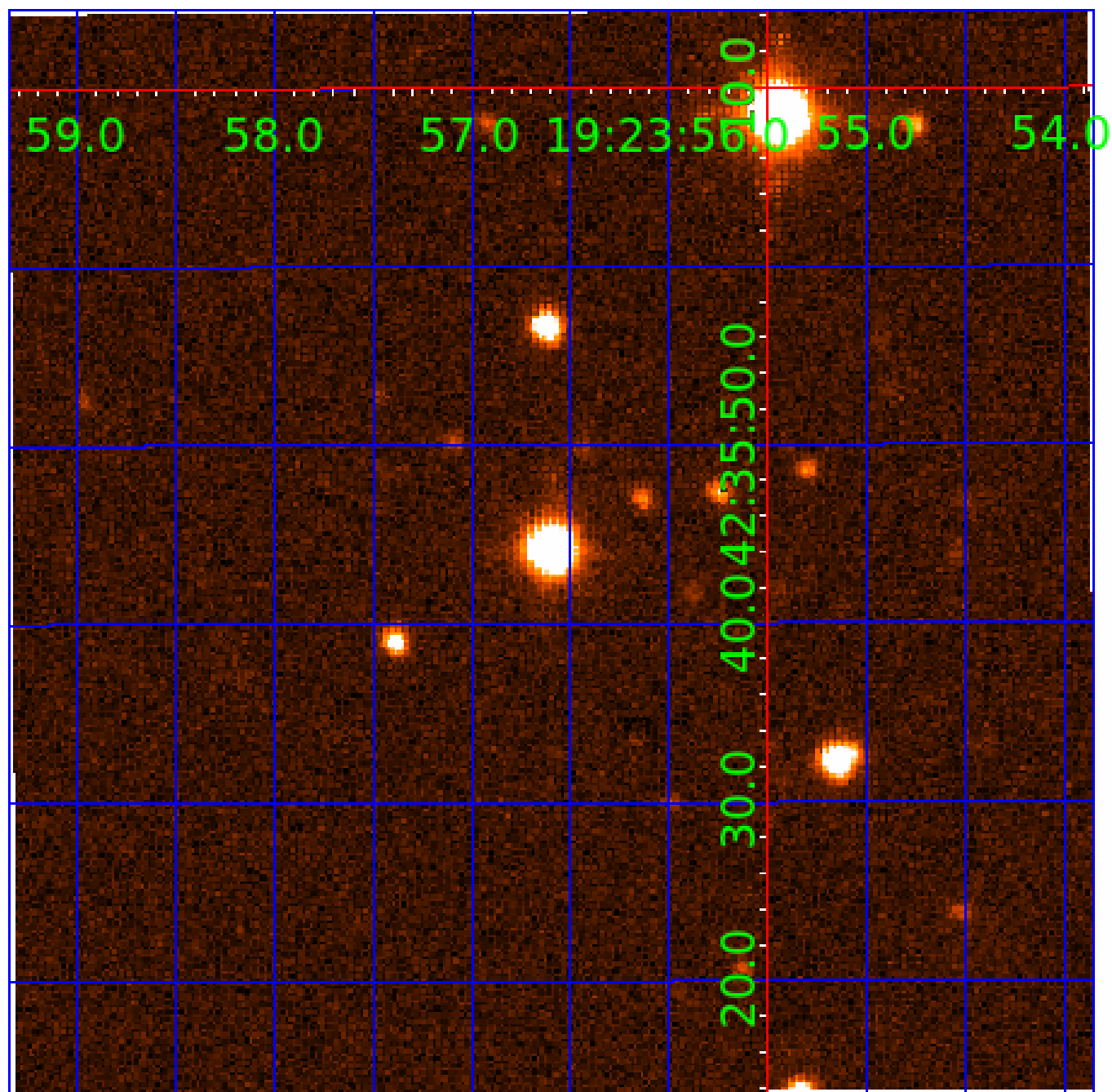


fluxWeightedCentroids, Planet 5 of 7



UKIRT Image

Declination



KIC 007031126

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})
007031126-01	OBS	7573.01	0.566742	131.882120	8.6	4.245	8.5	3.7	1.96	5102	0.56	14376.76
007031126-02	OBS	No	11.574048	134.284998	197.6	3.660	15.4	11.4	1.96	5102	2.72	257.55
007031126-03	OBS	No	7.676564	135.517245	835.1	1.500	13.6	-1.0	1.96	5102	5.56	445.26
007031126-04	OBS	No	14.045528	141.433326	716.5	0.520	15.9	20.8	1.96	5102	5.80	198.97
007031126-05	OBS	No	6.067112	134.420271	168.7	1.392	8.5	9.8	1.96	5102	2.50	609.35
007031126-06	OBS	No	3.112986	133.346365	122.0	1.246	10.8	8.4	1.96	5102	2.22	1483.45
007031126-07	OBS	No	14.125409	138.033325	160.6	3.353	11.9	8.6	1.96	5102	2.45	197.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007031126-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007031126-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV

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

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

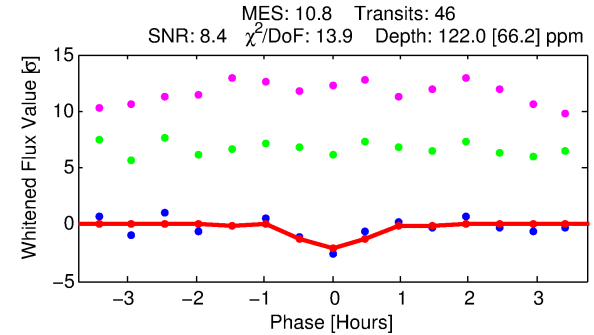
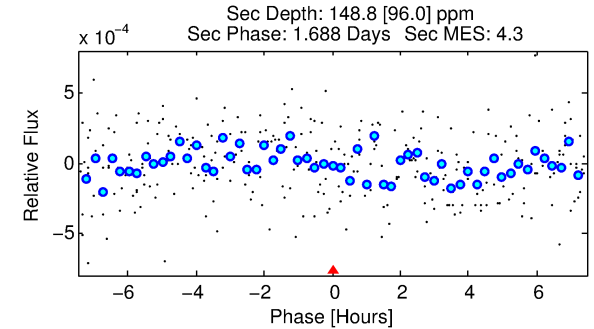
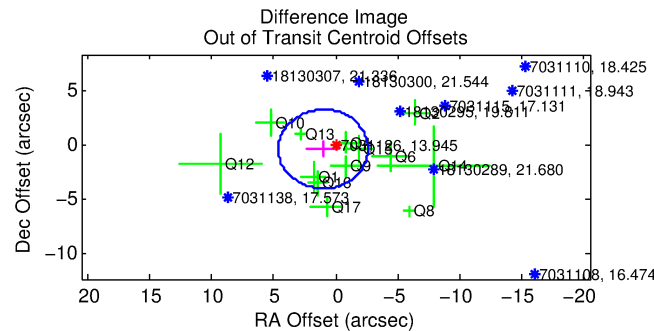
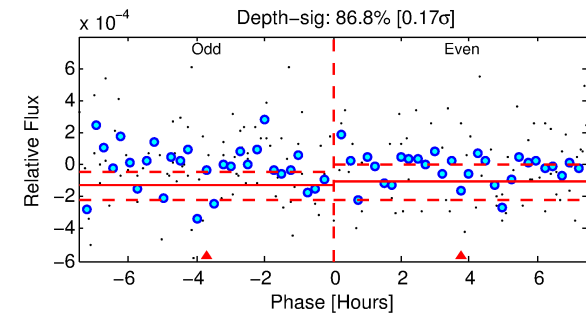
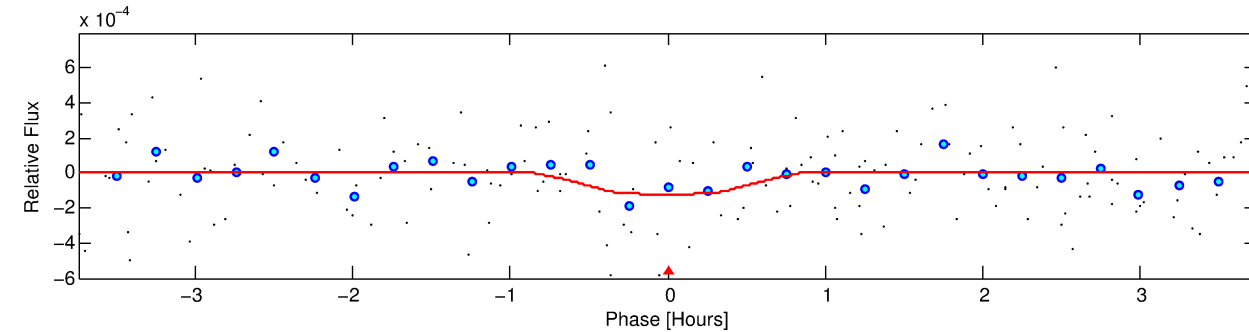
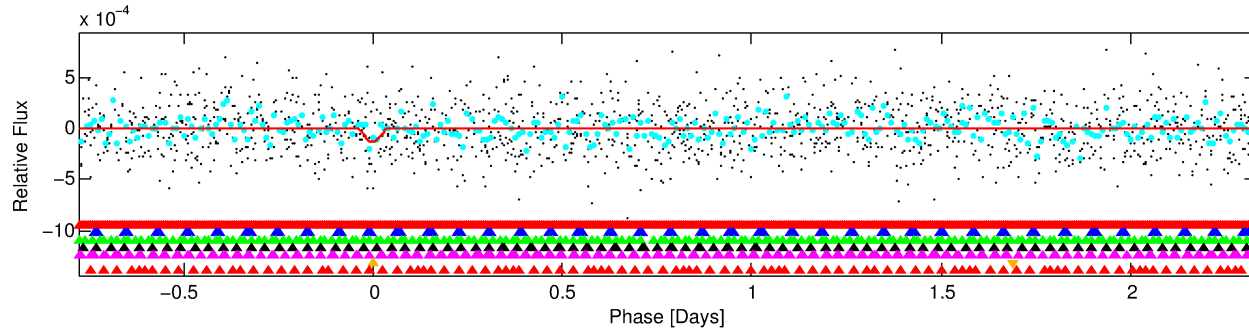
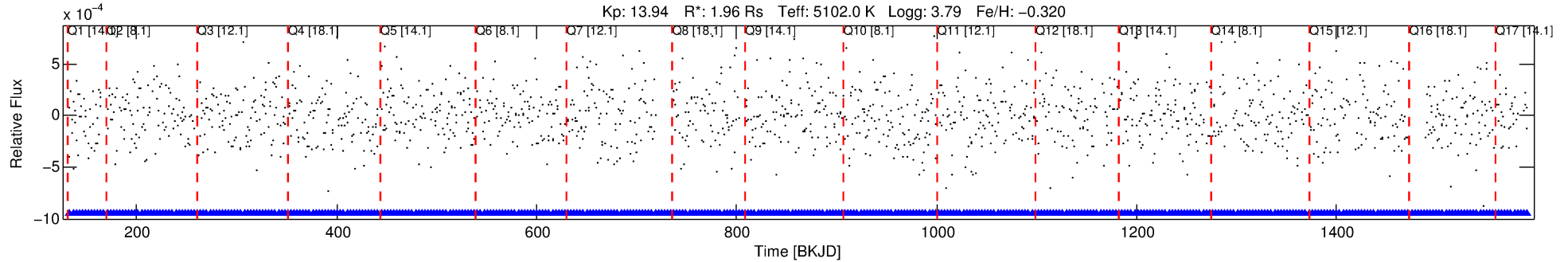
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007031126-06

No Significant Match Found

DV One-Page Summary

KIC: 7031126 Candidate: 6 of 7 Period: 3.113 d
KOI: K07573 Corr: No Ephemeris Match



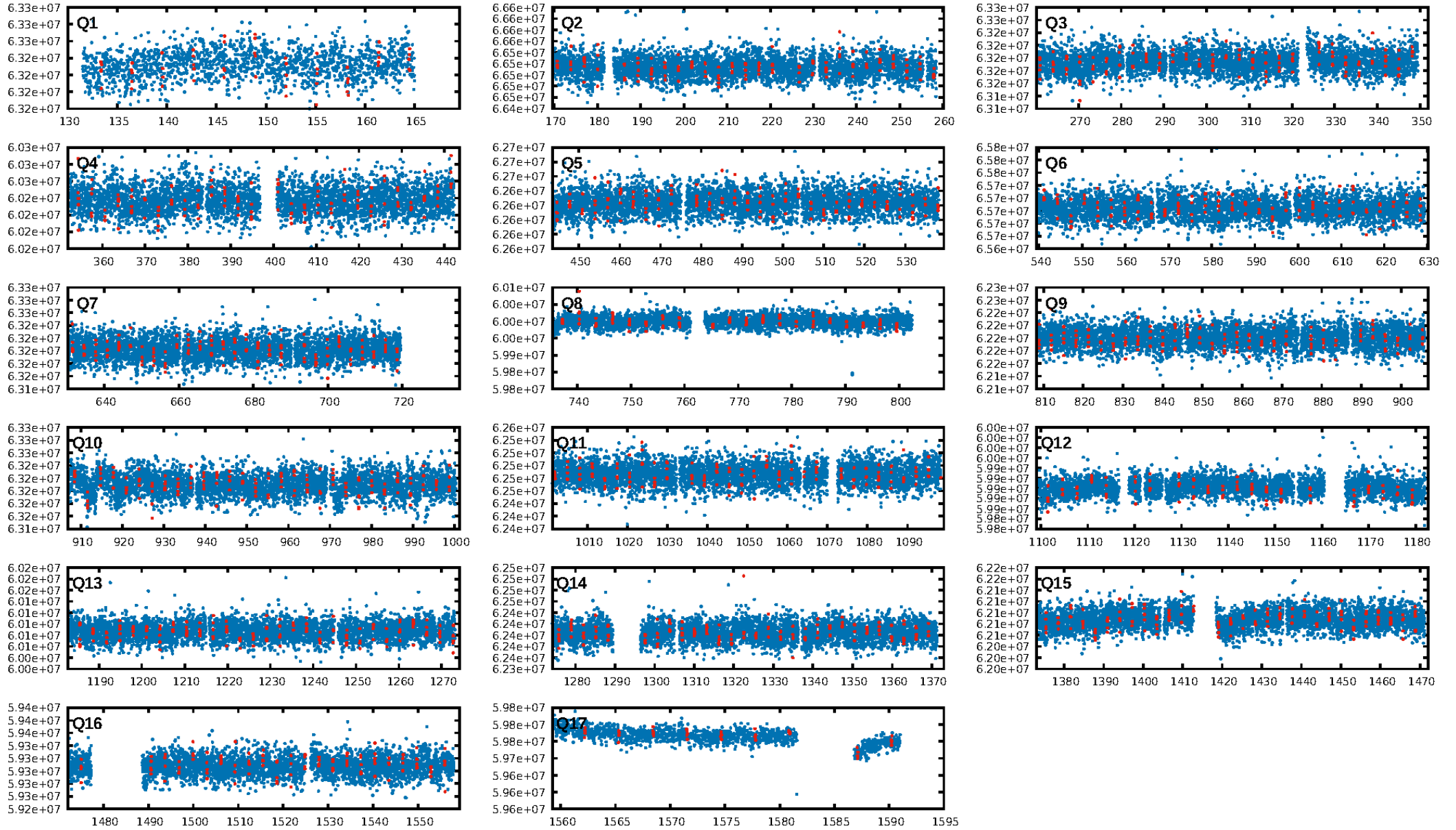
DV Fit Results:

Period = 3.11299 [0.00006] d
Epoch = 133.3464 [0.0112] BKJD
Rp/R* = 0.0104 [0.0401]
a/R* = 16.51 [235.88]
b = 0.52 [20.22]
Seff = 1483.45 [1984.38]
Teq = 1583 [529] K
Rp = 2.22 [8.70] Re
a = 0.0397 [0.0305] AU
Ag = 26.18 [205.90] [0.12 σ]
Teffp = 5534 [10727] K [0.37 σ]

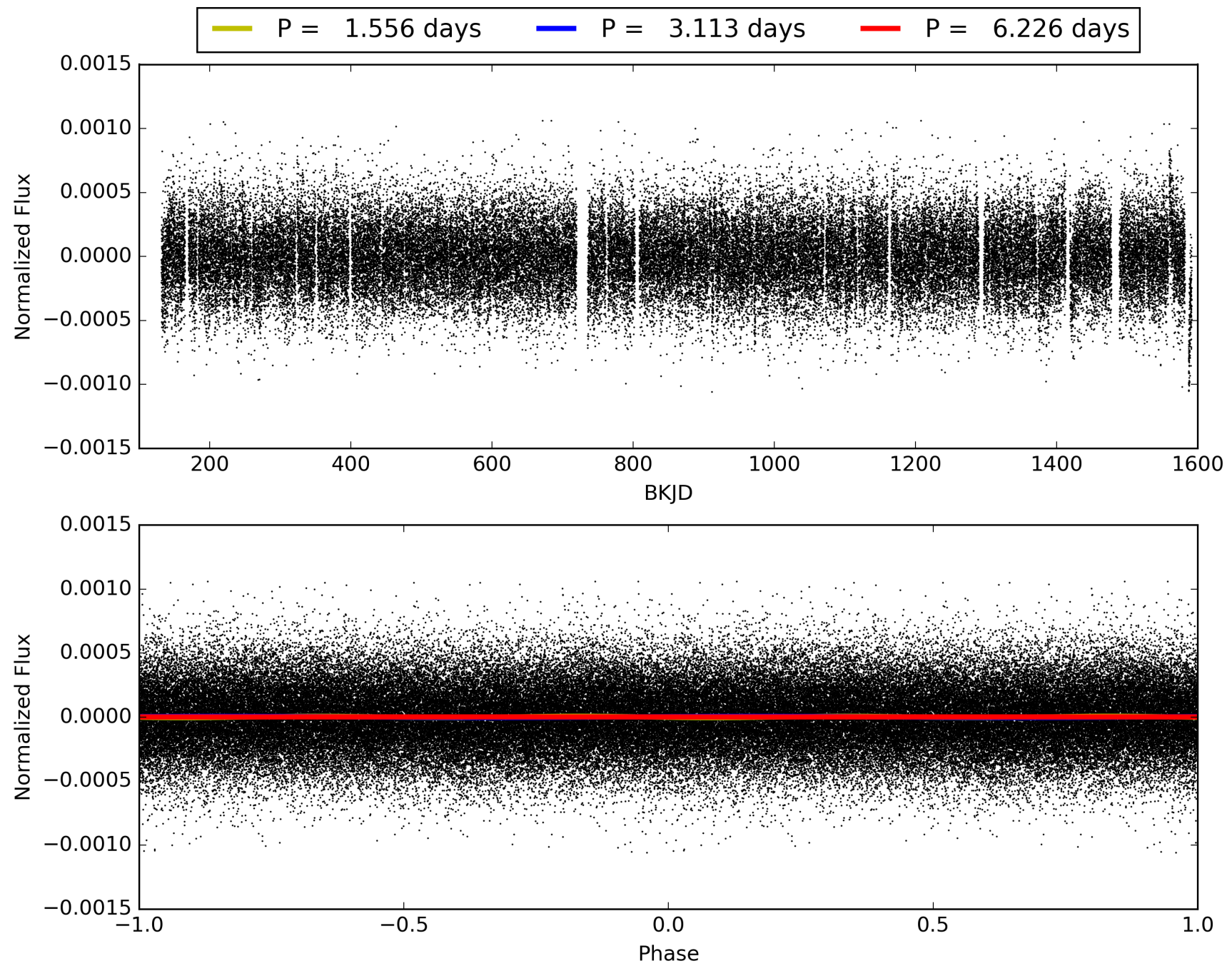
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [13.81 σ]
LongPeriod-sig: 100.0% [37.94 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 2.38e-05
RollingBand-fgt: 1.00 [43/43]
GhostDiagnostic-chr: 3.769
Centroid-sig: 1.2%
Centroid-so: 1.725 arcsec [2.57 σ]
OotOffset-rm: 1.086 arcsec [0.90 σ]
KicOffset-rm: 0.951 arcsec [0.74 σ]
OotOffset-st: 4/1/4/4 [13]
KicOffset-st: 4/1/4/4 [13]
DiffImageQuality-fgm: 0.15 [2/13]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007031126-06, PDC Light Curves

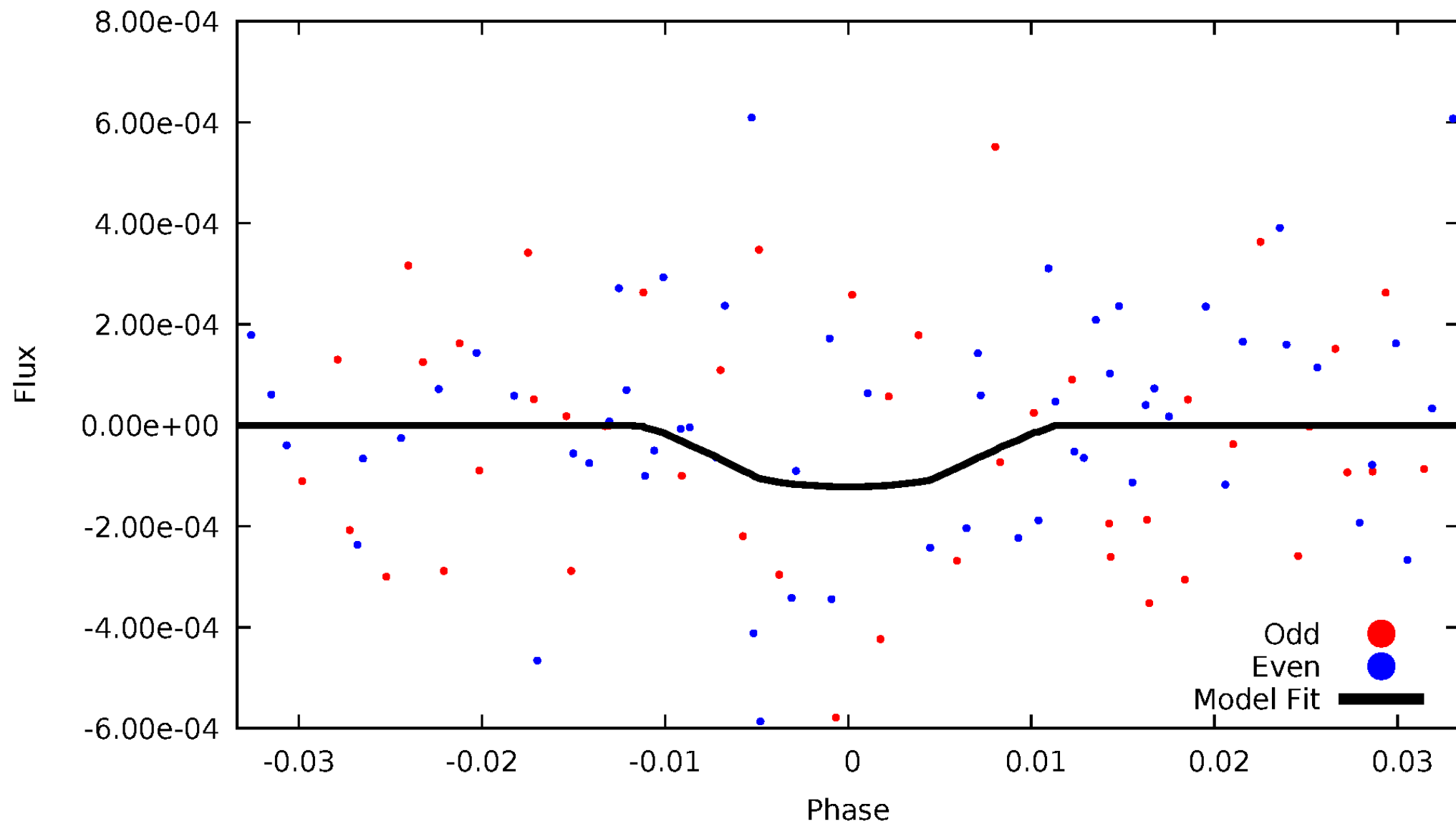


TCE 007031126-06



DV Odd/Even

TCE 007031126-06

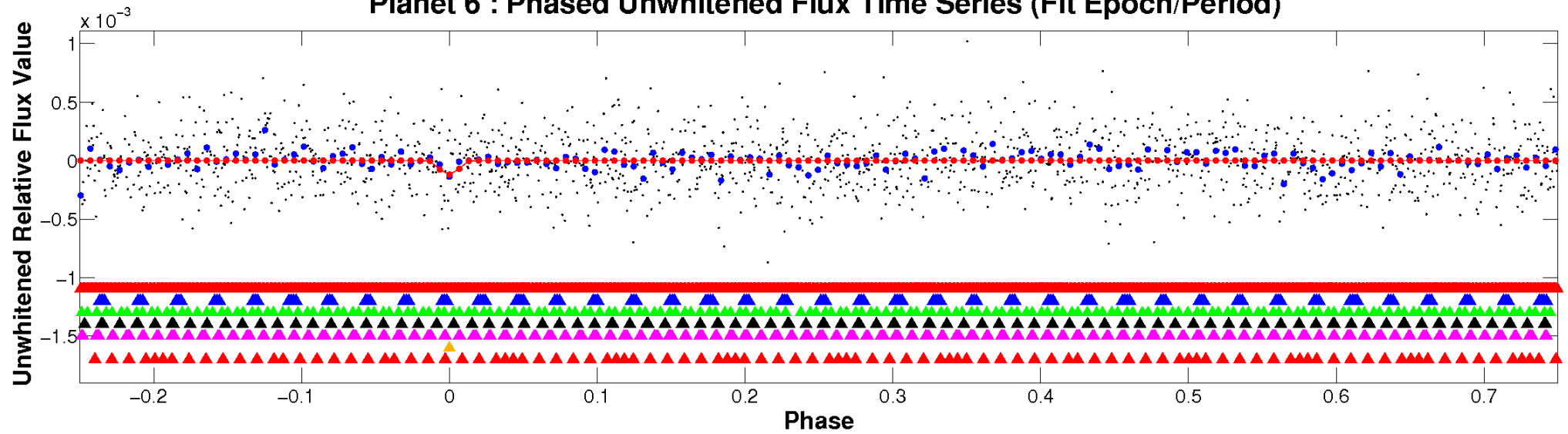


ALT Odd/Even

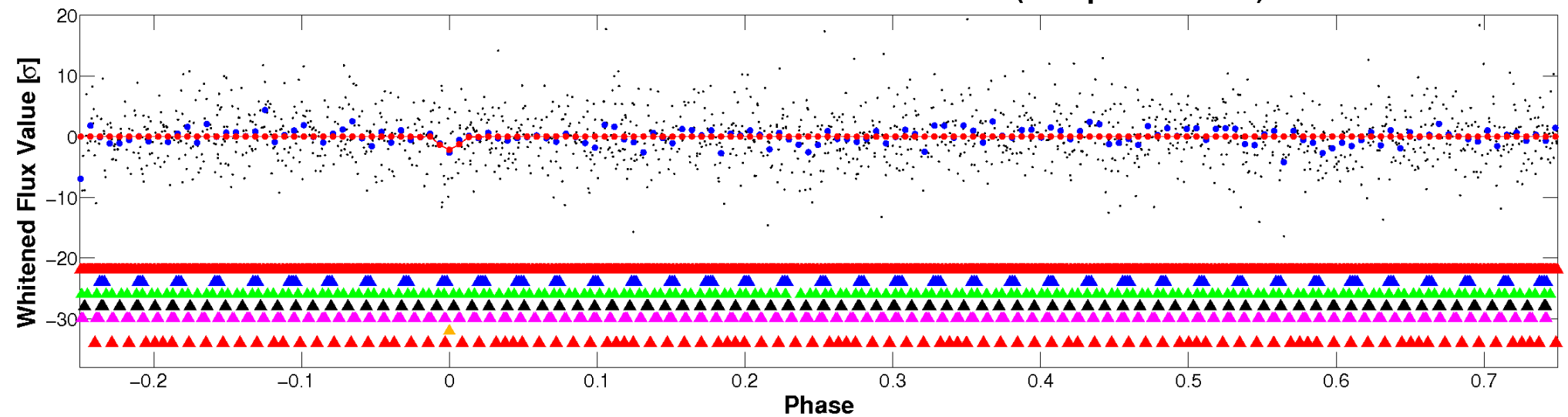
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

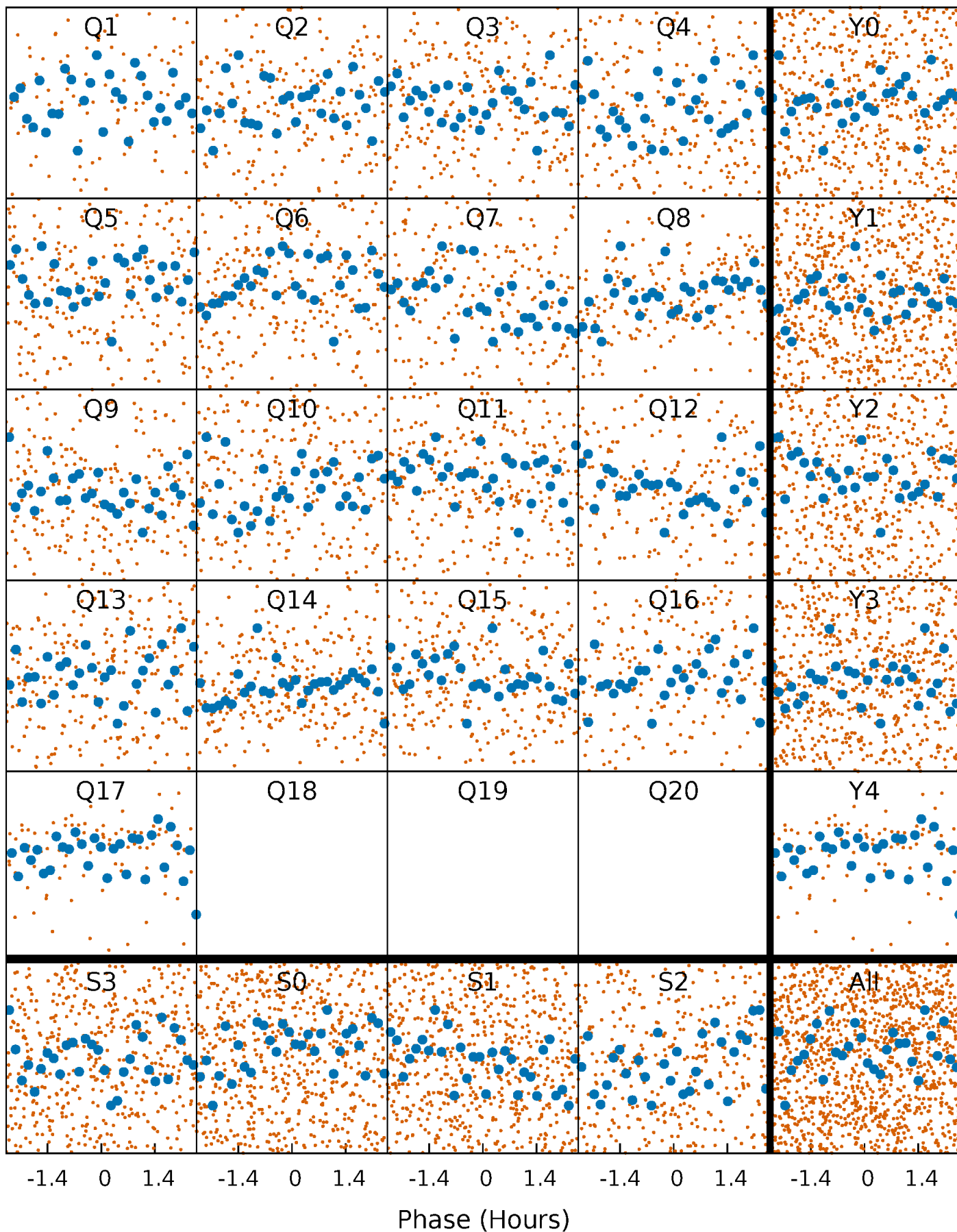


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



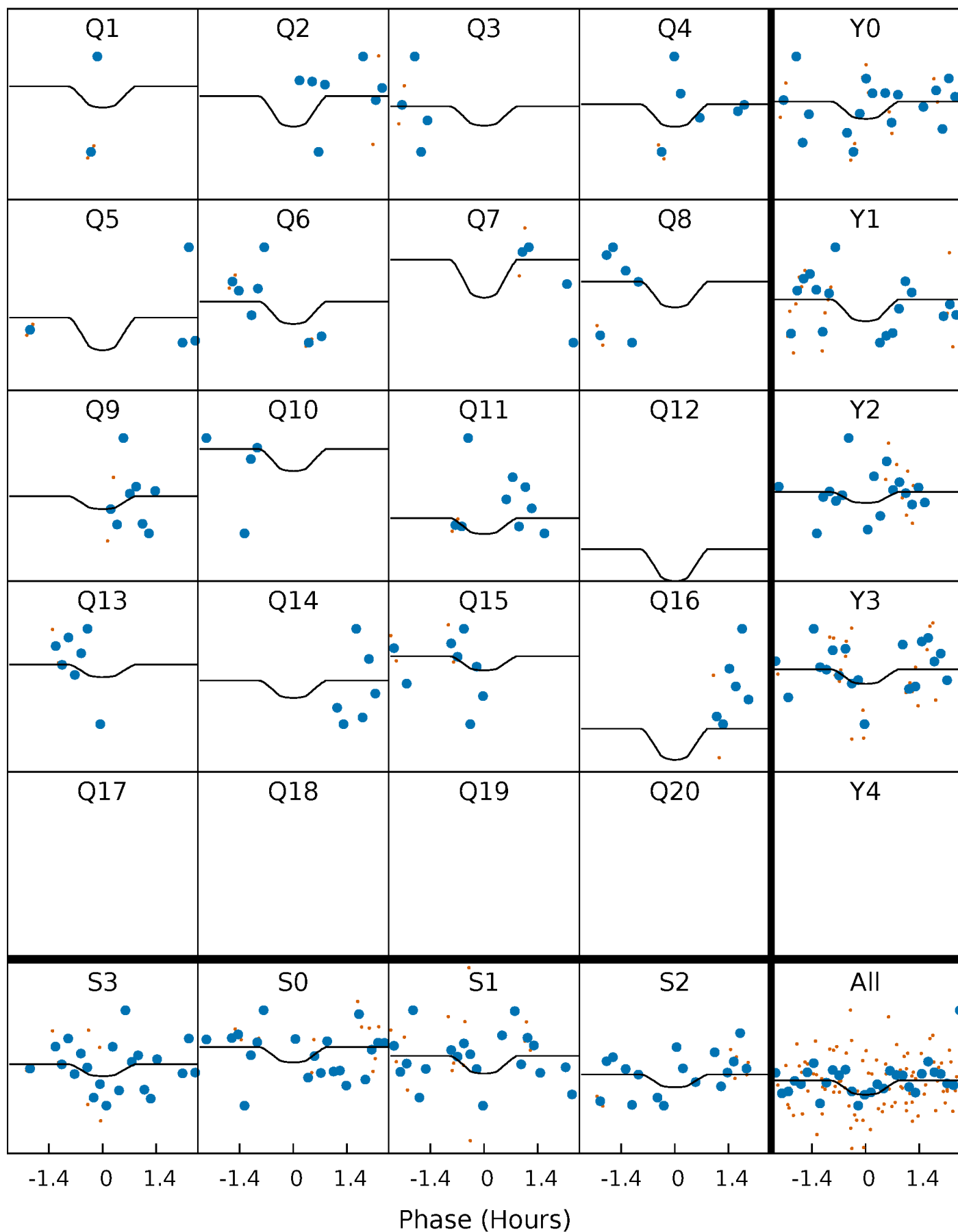
PDC Quarter-Phased Transit Curves

TCE 007031126-06 P= 3.112986 Days $T_0=133.346365$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007031126-06 P= 3.112986 Days $T_0=133.346365$ (BKJD)

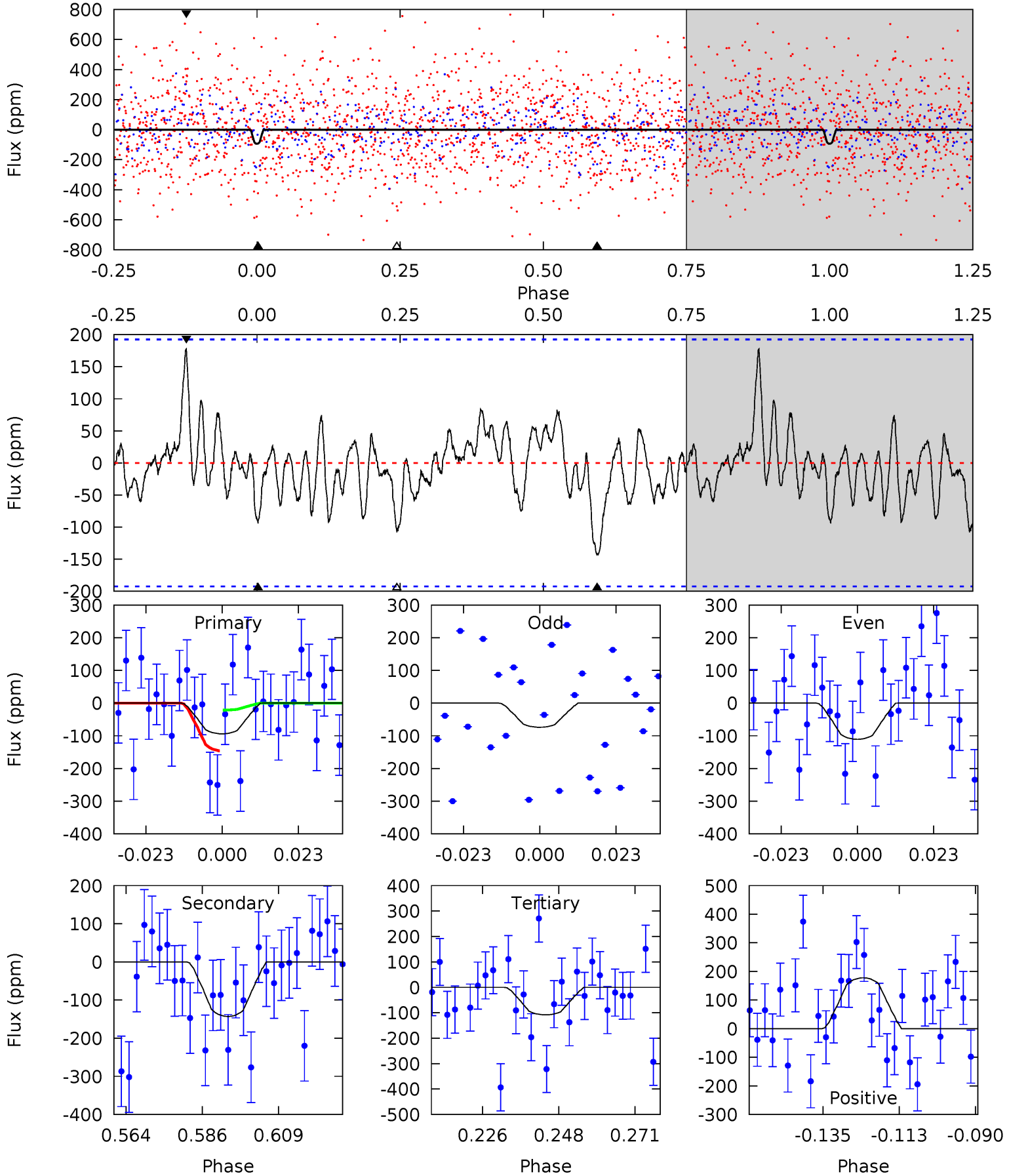


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007031126-06, P = 3.112986 Days, E = 130.233379 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.38	3.62	2.74	4.50	4.87	2.28	1.09	-0.36	-2.12	0.88	-0.88	0.46	0	0.55	1.57



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-143 ± 40	$6.19^{+7.36}_{-4.22}$	2183^{+390}_{-393}	3506^{+1801}_{-831}	$3.431^{+27.229}_{-2.731}$
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 $A_{\text{obs}} \gg 1.0$

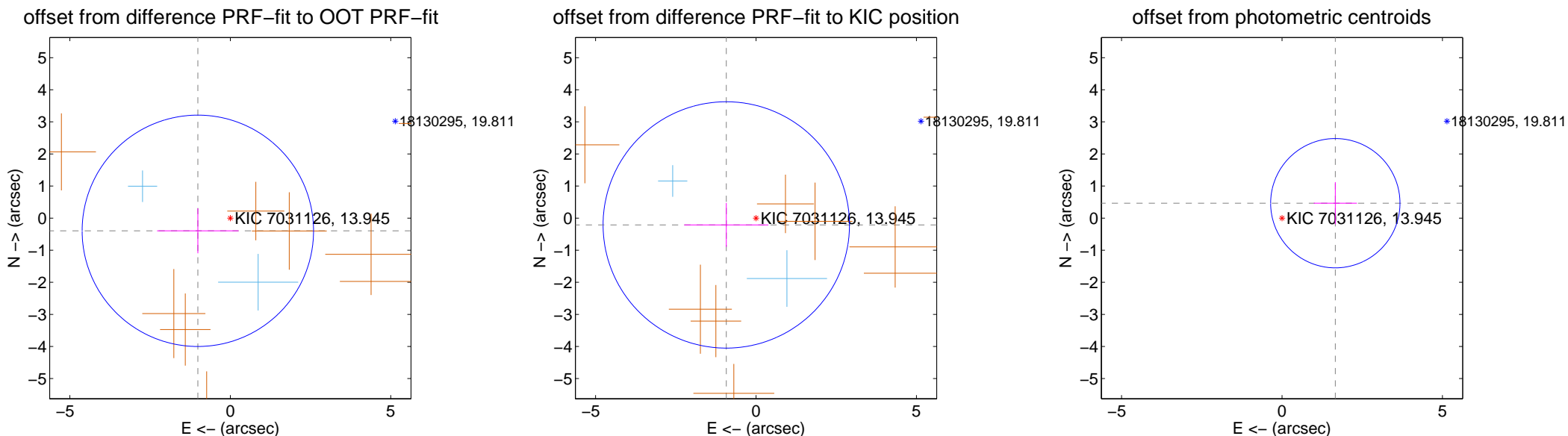
DV Centroid Data

Supplemental centroid analysis for 007031126-06. Kepler magnitude: 13.95. Transit SNR 8.45

There are 2 quarters with good PRF difference image offsets

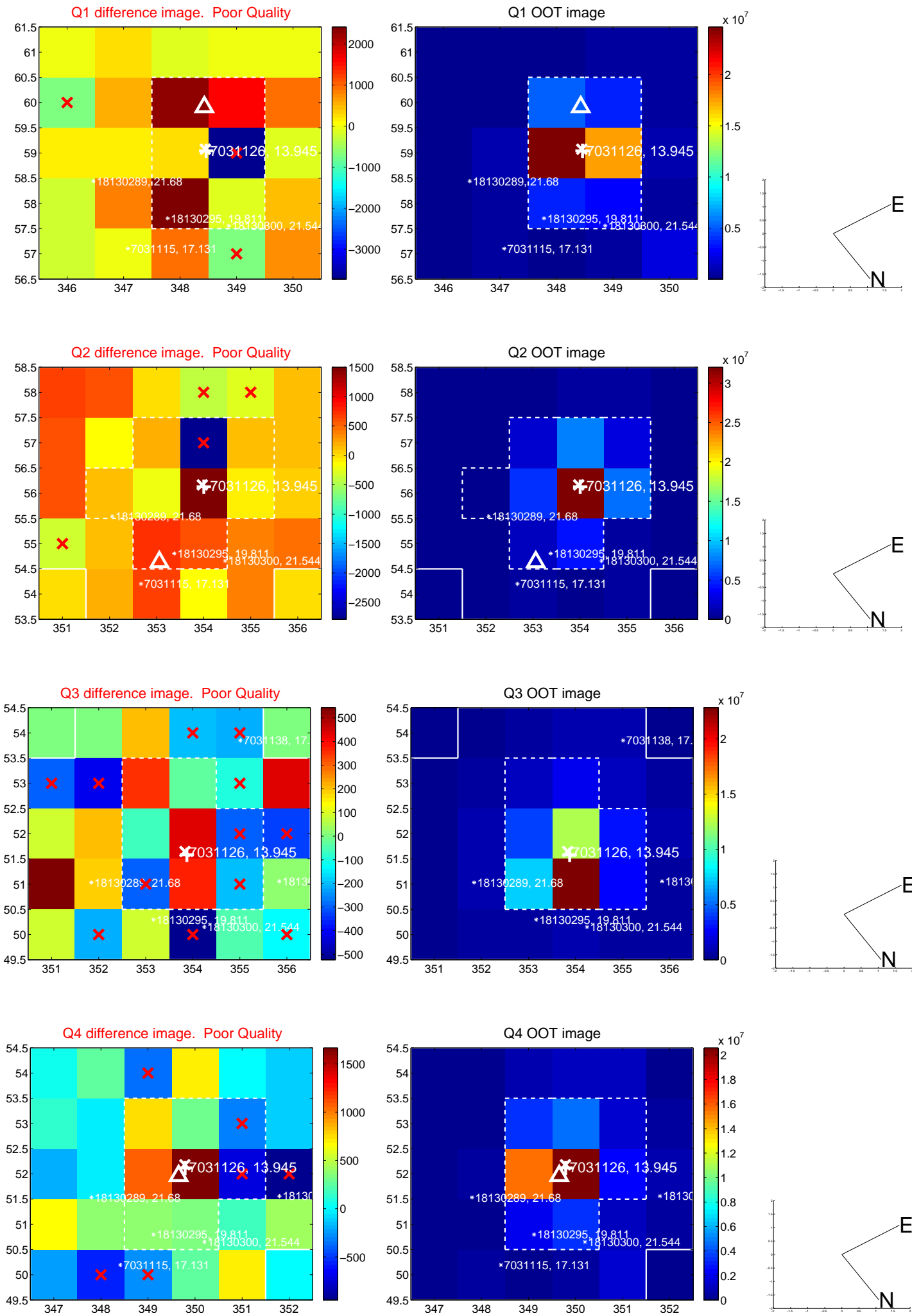
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.086 ± 1.202	0.90	1.012 ± 1.270	-0.395 ± 0.701
PRF-fit source offset from KIC position	0.951 ± 1.279	0.74	0.927 ± 1.311	-0.212 ± 0.685
photometric centroid source offset	1.73 ± 0.67	2.57	-1.66 ± 0.67	0.47 ± 0.66

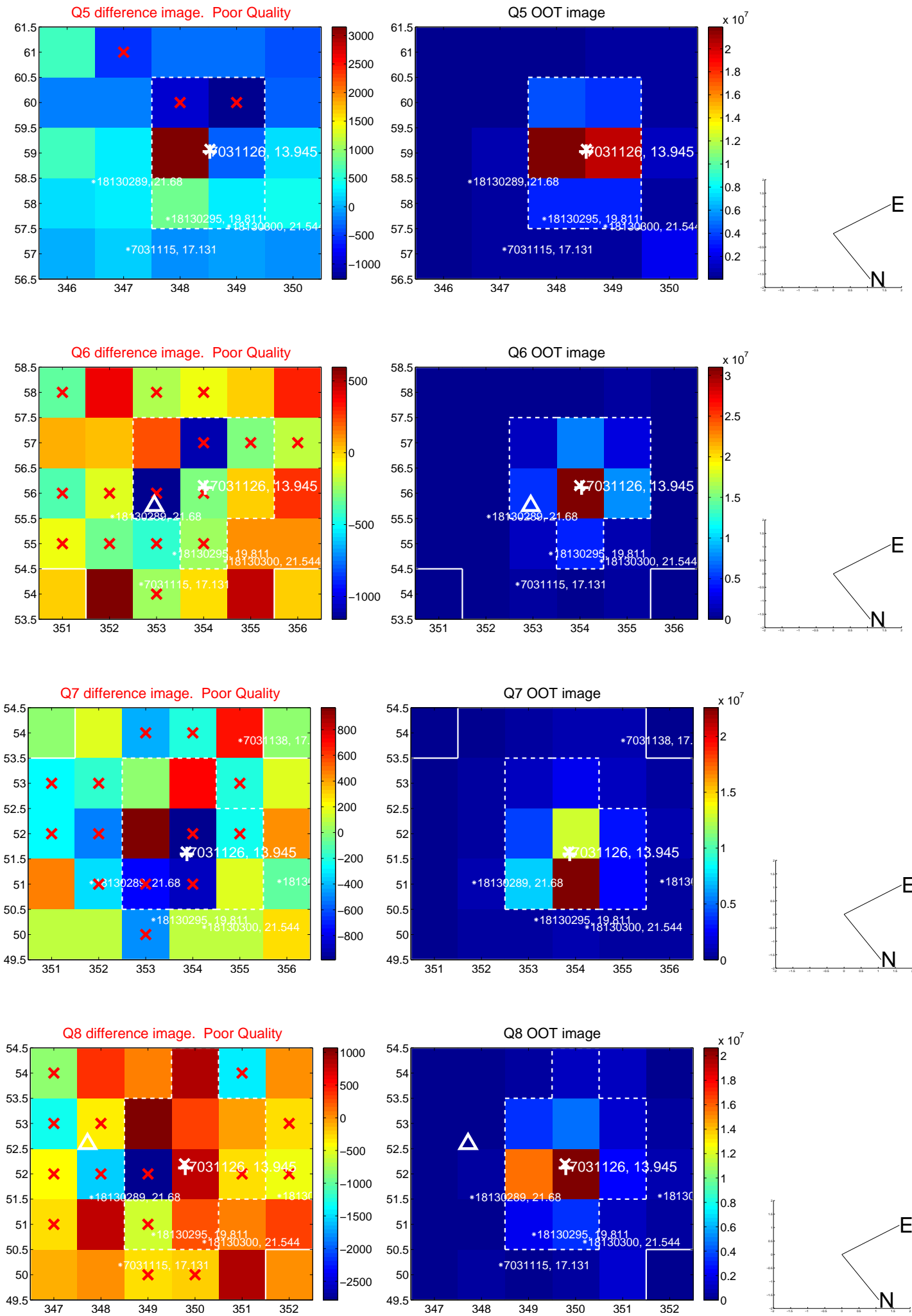


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

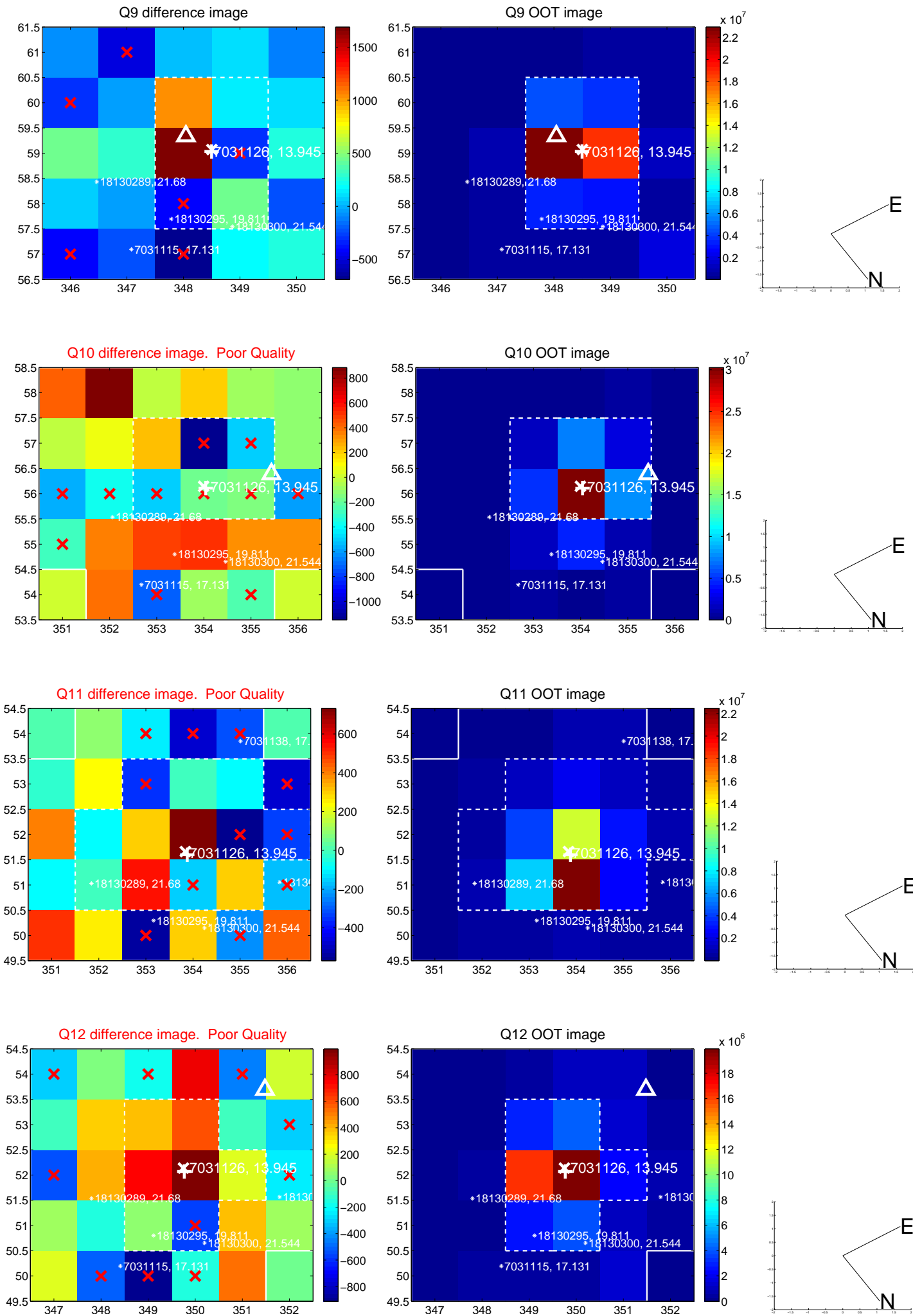
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



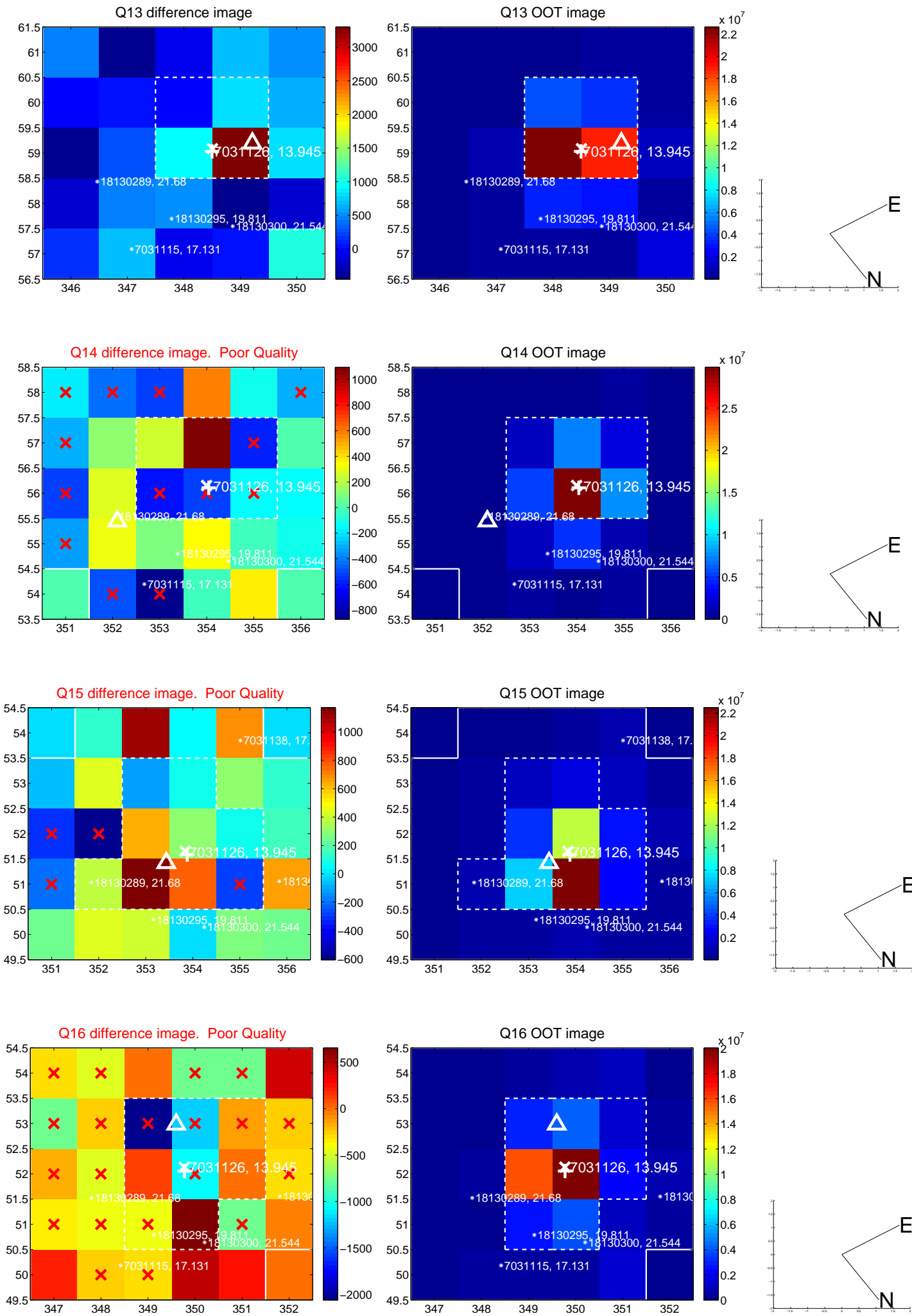
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



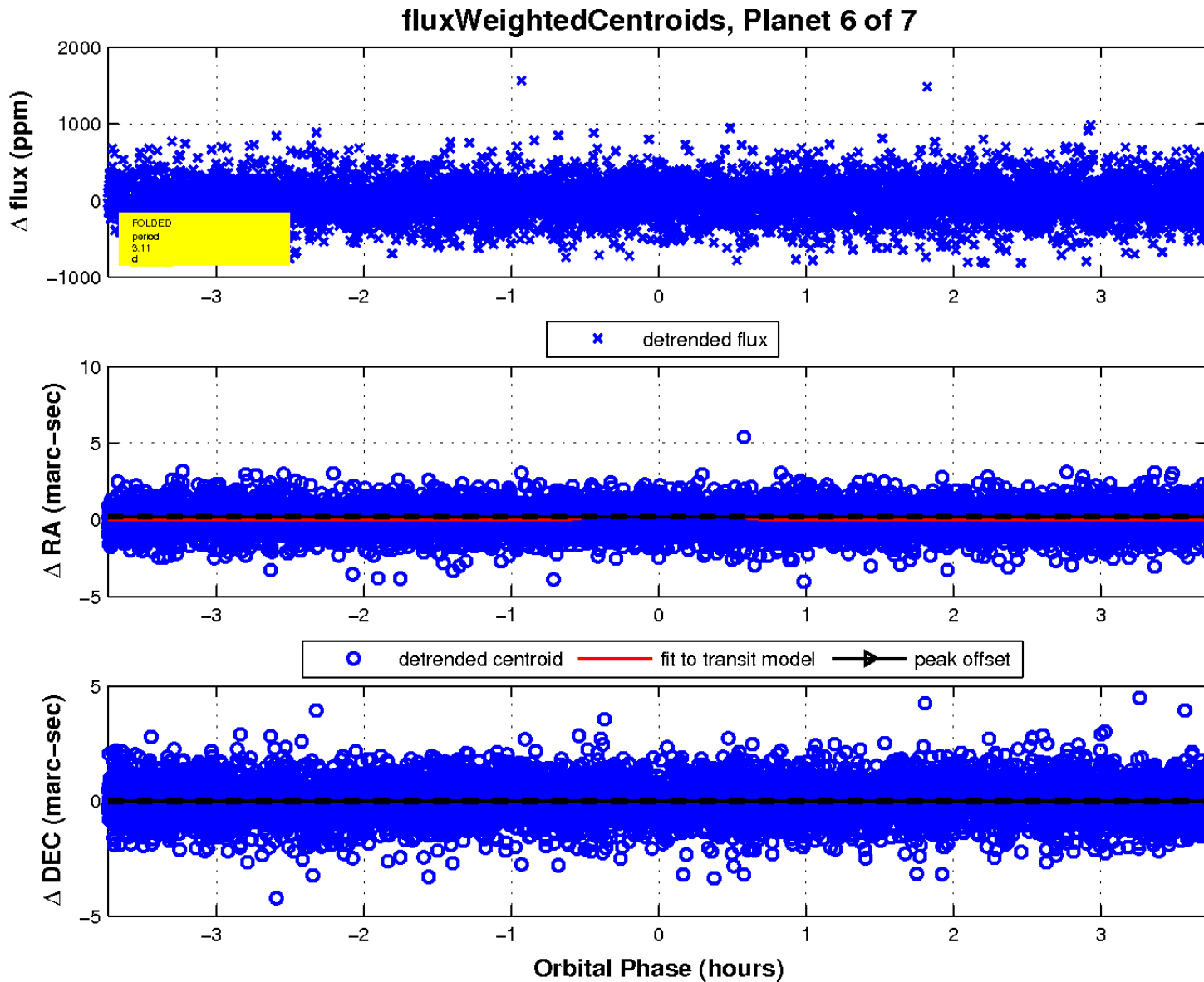
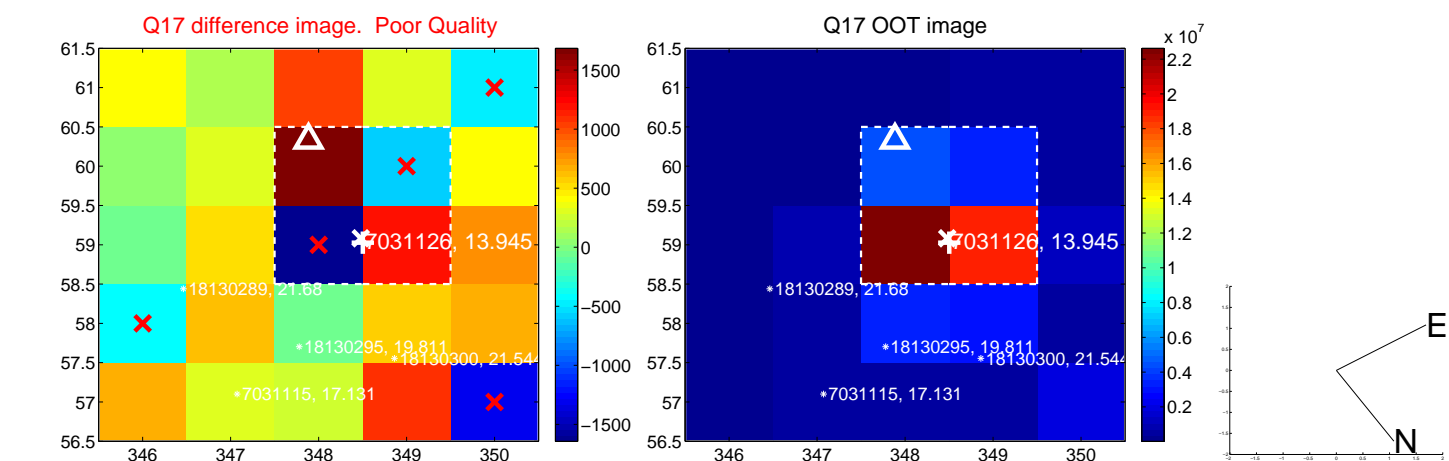
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

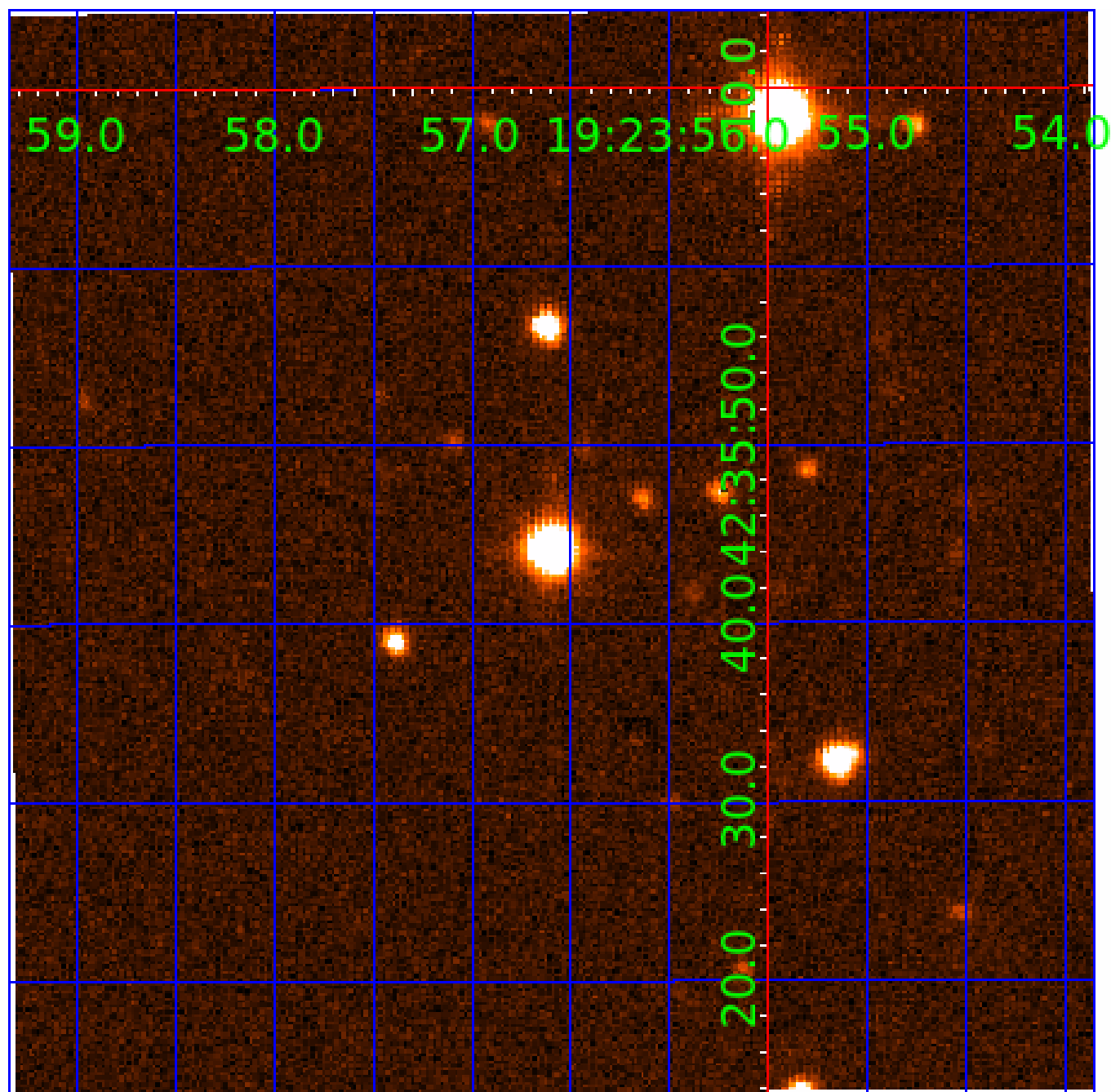


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007031126

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})
007031126-01	OBS	7573.01	0.566742	131.882120	8.6	4.245	8.5	3.7	1.96	5102	0.56	14376.76
007031126-02	OBS	No	11.574048	134.284998	197.6	3.660	15.4	11.4	1.96	5102	2.72	257.55
007031126-03	OBS	No	7.676564	135.517245	835.1	1.500	13.6	-1.0	1.96	5102	5.56	445.26
007031126-04	OBS	No	14.045528	141.433326	716.5	0.520	15.9	20.8	1.96	5102	5.80	198.97
007031126-05	OBS	No	6.067112	134.420271	168.7	1.392	8.5	9.8	1.96	5102	2.50	609.35
007031126-06	OBS	No	3.112986	133.346365	122.0	1.246	10.8	8.4	1.96	5102	2.22	1483.45
007031126-07	OBS	No	14.125409	138.033325	160.6	3.353	11.9	8.6	1.96	5102	2.45	197.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007031126-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007031126-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
007031126-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007031126-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
007031126-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007031126-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007031126-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV

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

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

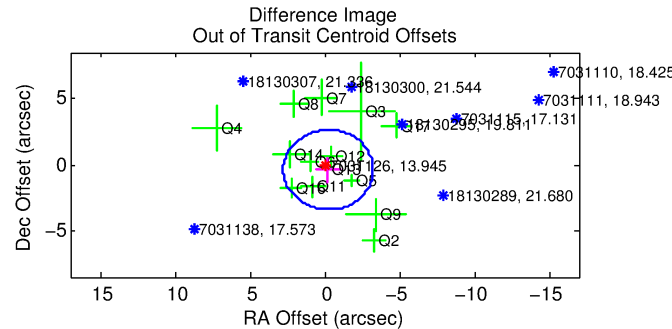
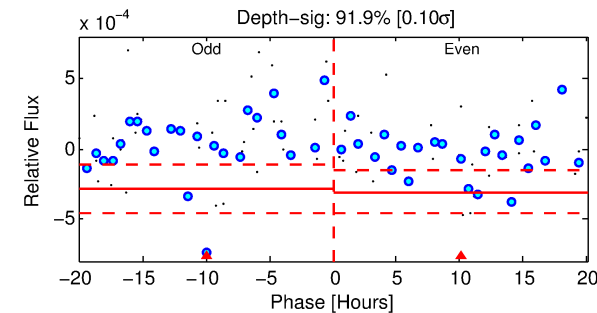
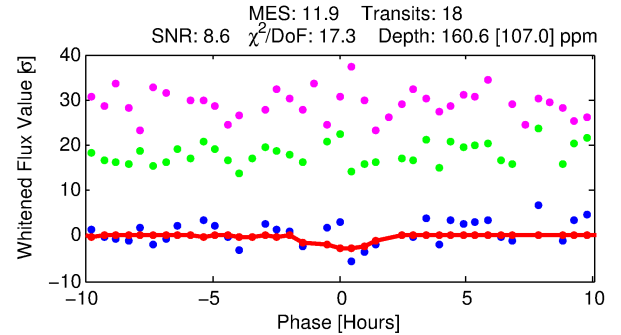
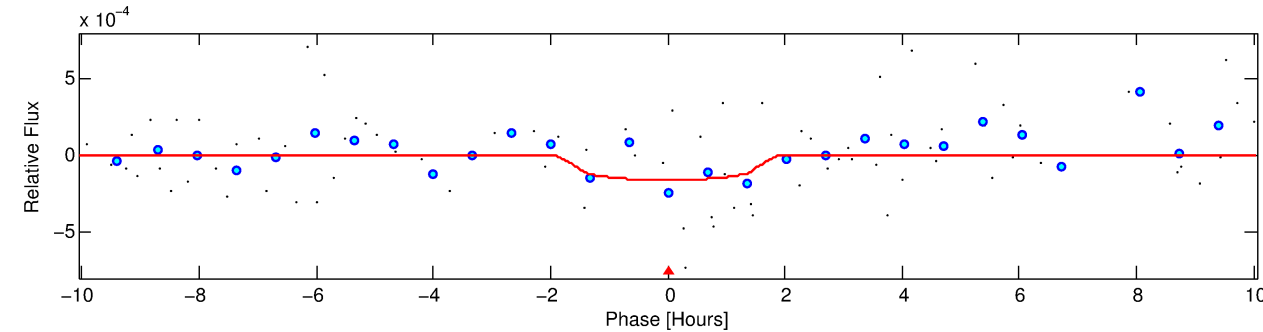
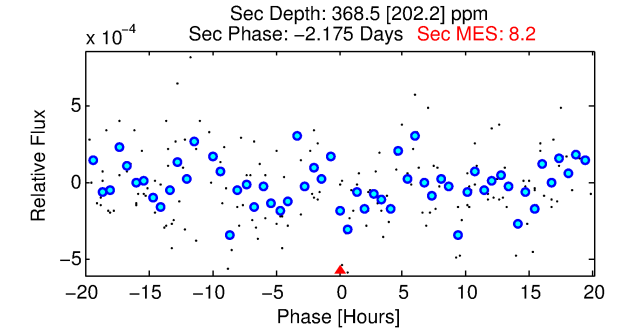
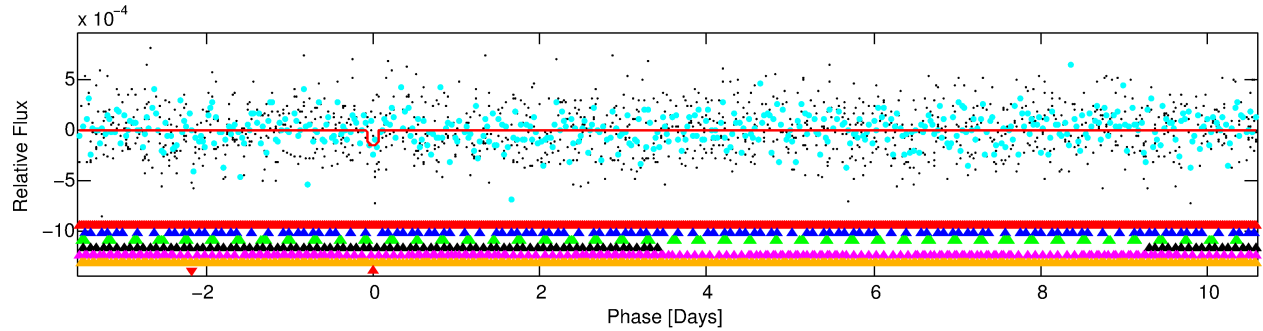
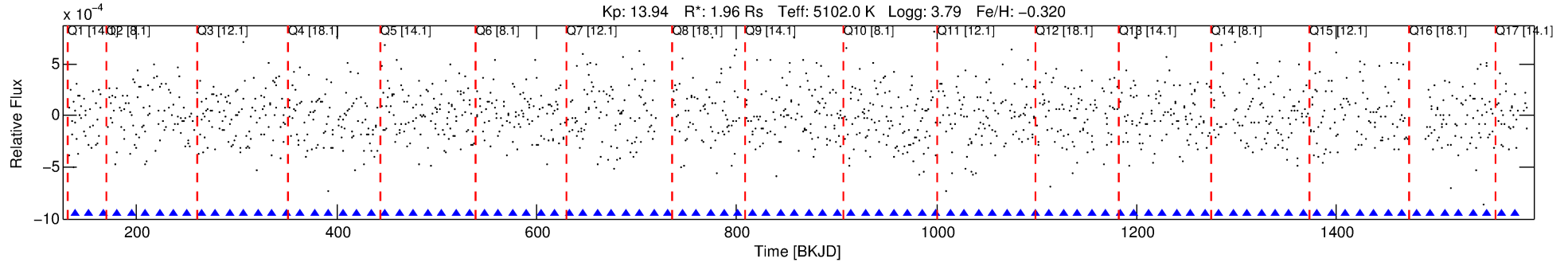
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007031126-07

No Significant Match Found

DV One-Page Summary

KIC: 7031126 Candidate: 7 of 7 Period: 14.125 d
KOI: K07573 Corr: No Ephemeris Match



DV Fit Results:

Period = 14.12541 [0.00371] d
Epoch = 138.0333 [0.2439] BKJD
Rp/R* = 0.0115 [0.1026]
a/R* = 31.15 [1022.20]
b = 0.29 [103.69]
Seff = 197.47 [264.16]
Teq = 956 [320] K
Rp = 2.45 [22.01] Re
a = 0.1087 [0.0835] AU
Ag = 398.29 [7151.03] [0.06 σ]
Teffp = 6602 [29554] K [0.19 σ]

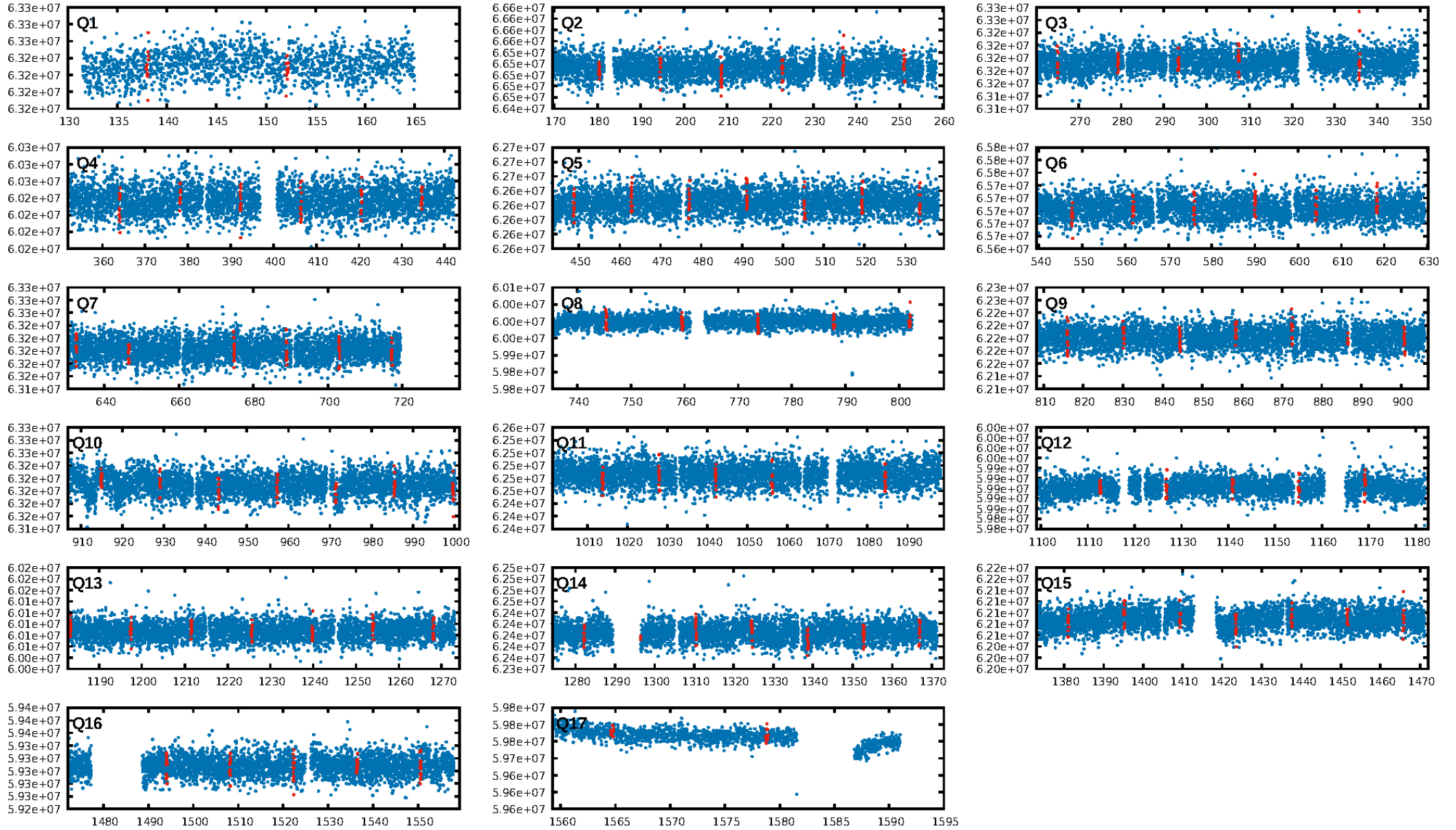
DV Diagnostic Results:

ShortPeriod-sig: 42.8% [0.56 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 1.43e-06
RollingBand-fgt: 1.00 [18/18]
GhostDiagnostic-chr: -1.634
Centroid-sig: 0.0%
Centroid-so: 1.649 arcsec [2.50 σ]
OotOffset-rm: 0.454 arcsec [0.45 σ]
KicOffset-rm: 0.354 arcsec [0.38 σ]
OotOffset-st: 3/3/4/4 [14]
KicOffset-st: 3/3/4/4 [14]
DiffImageQuality-fgm: 0.29 [4/14]
DiffImageOverlap-fno: 0.00 [0/17]

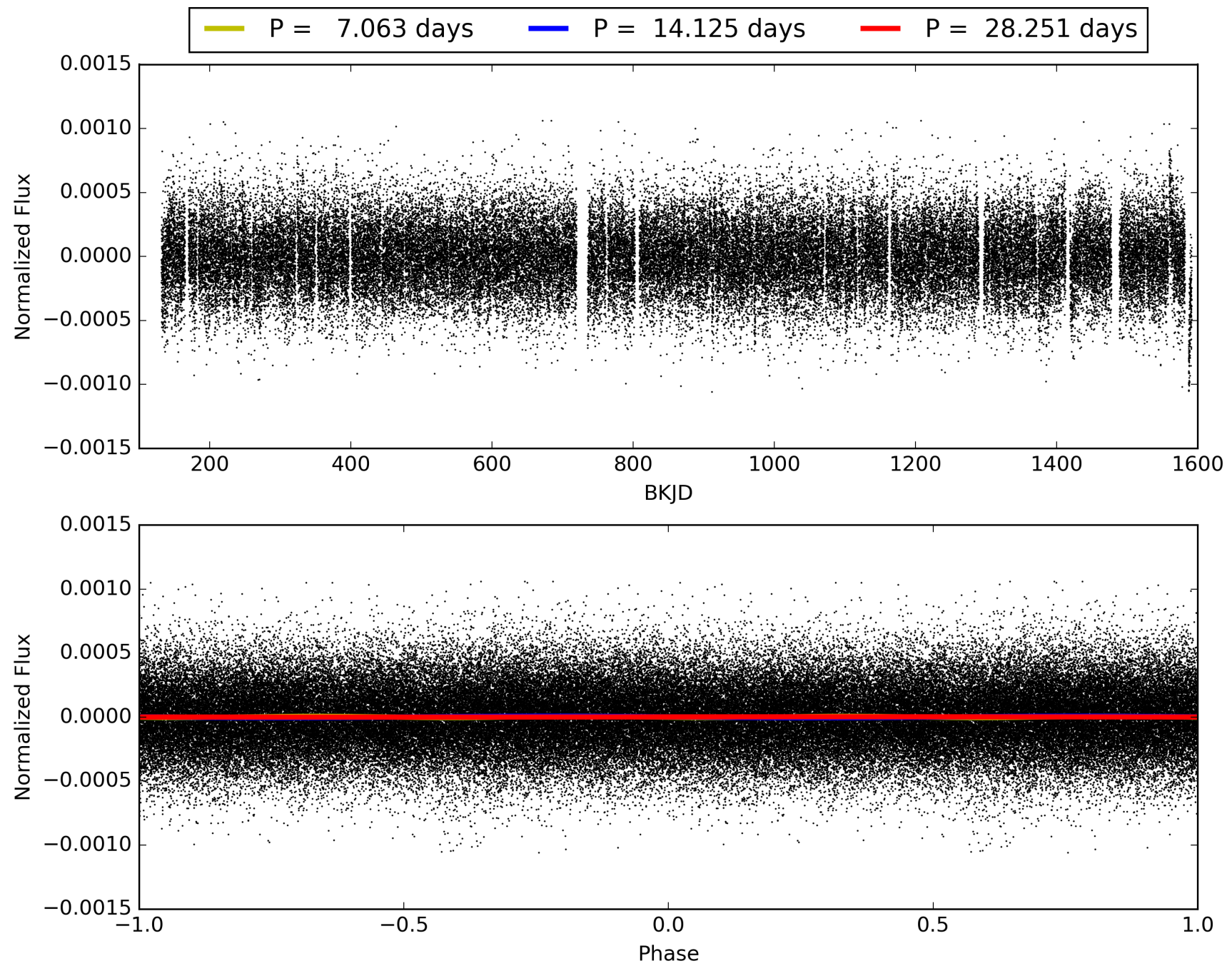
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:10:39 Z

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

TCE 007031126-07, PDC Light Curves

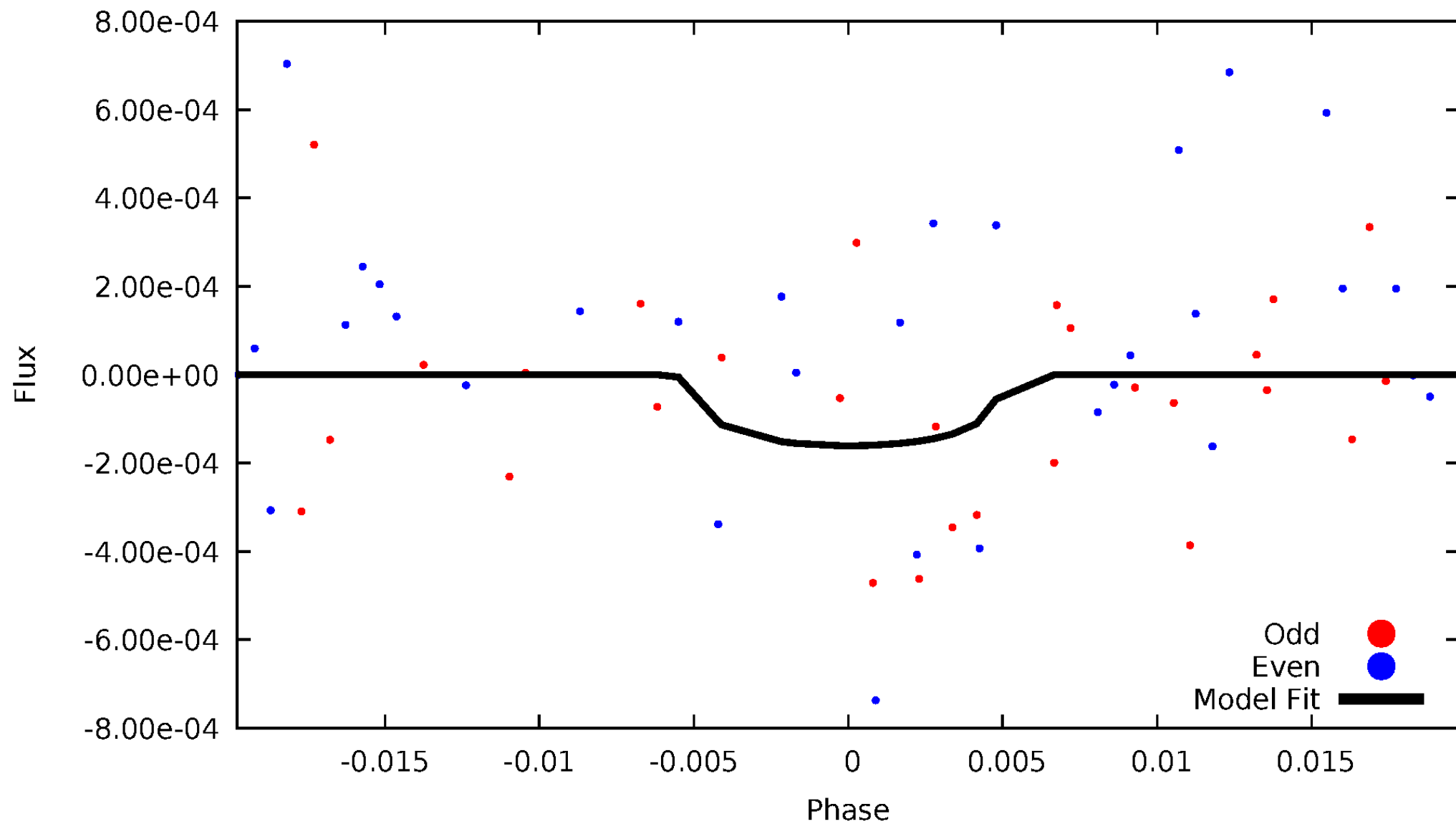


TCE 007031126-07



DV Odd/Even

TCE 007031126-07

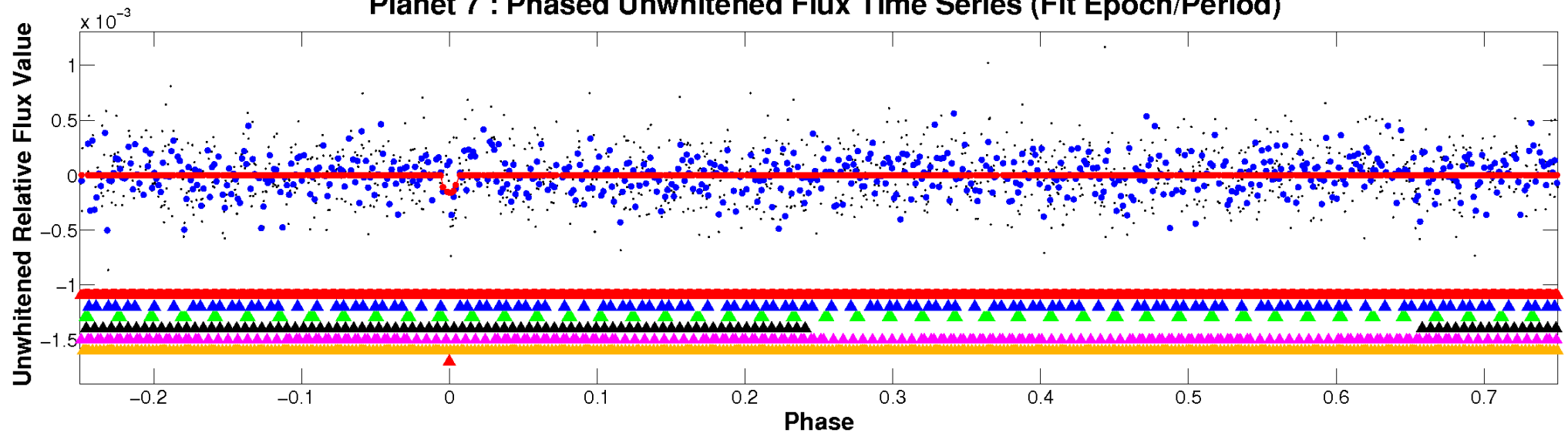


ALT Odd/Even

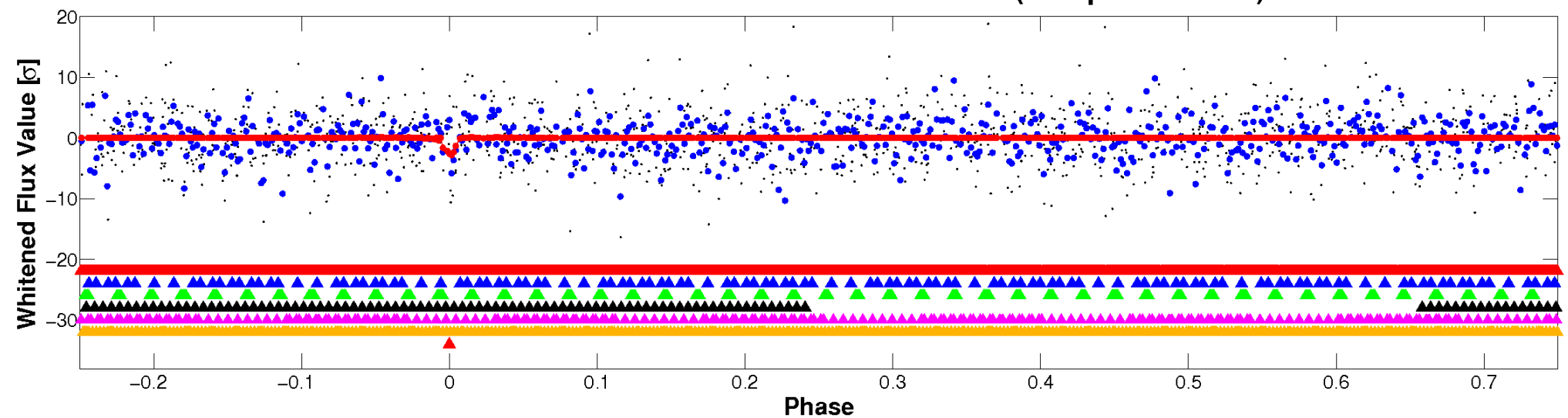
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

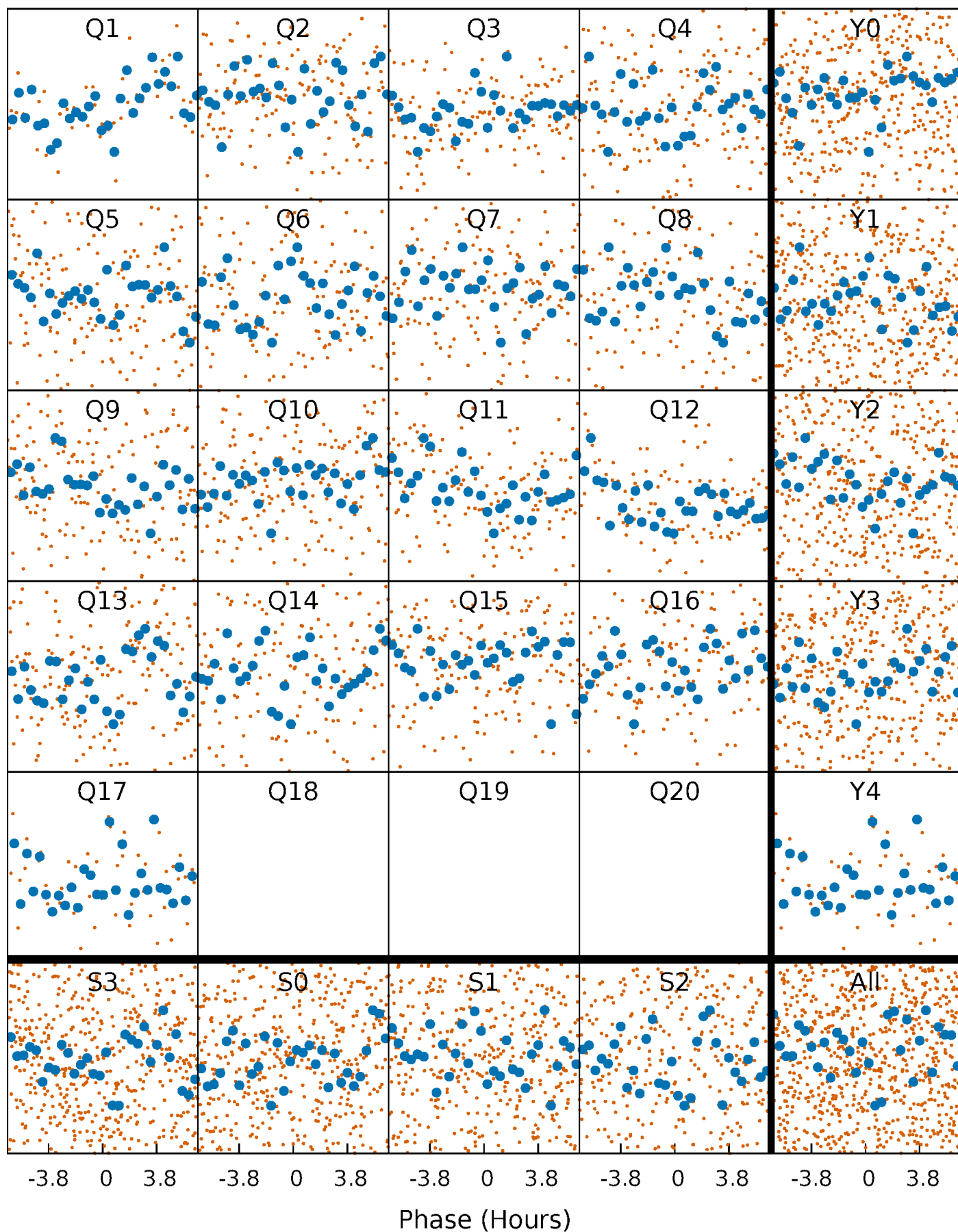


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



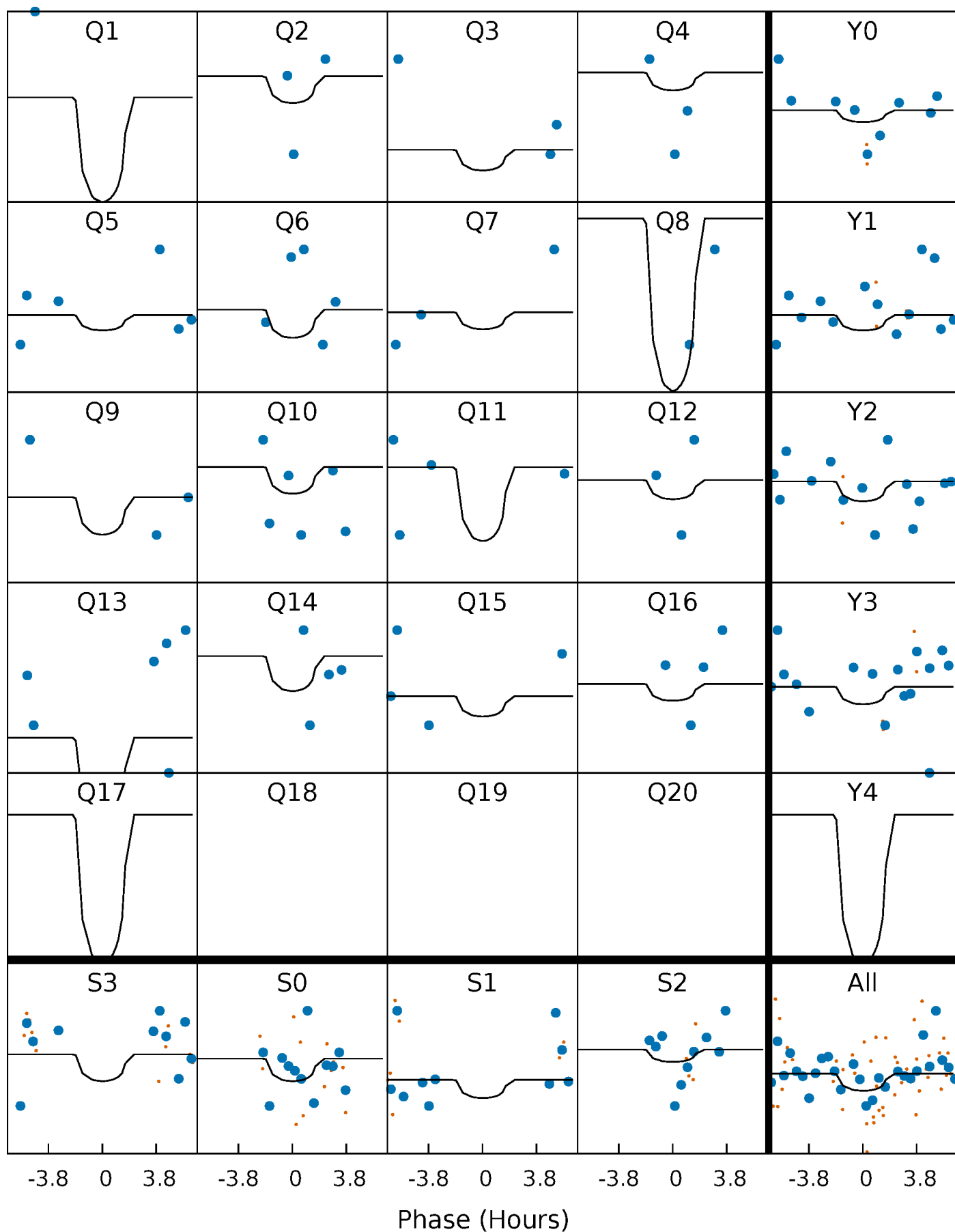
PDC Quarter-Phased Transit Curves

TCE 007031126-07 P= 14.125409 Days $T_0=138.033325$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007031126-07 P= 14.125409 Days $T_0=138.033325$ (BKJD)

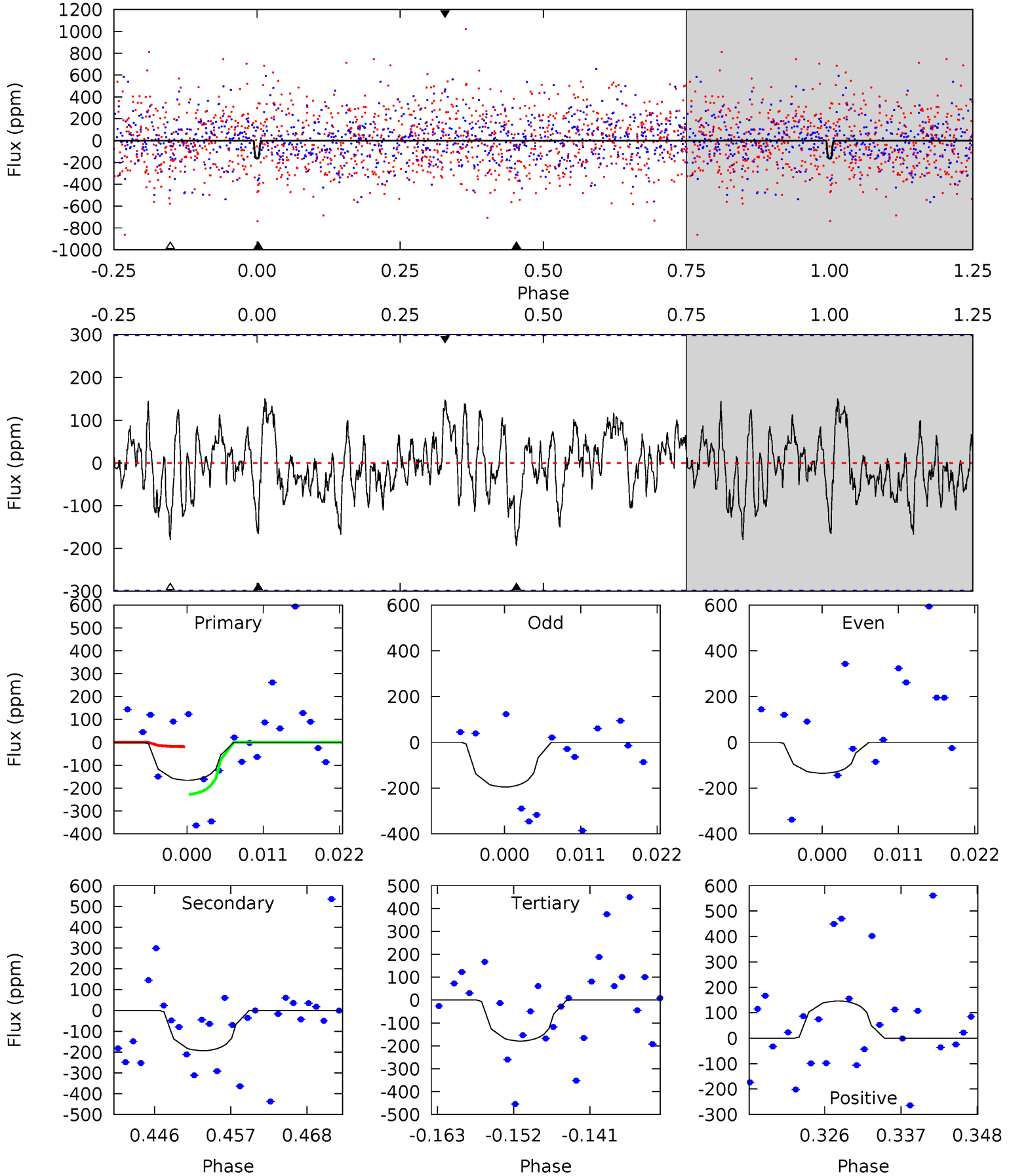


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007031126-07, P = 14.125409 Days, E = 123.907916 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.78	3.25	3.00	2.45	5.01	2.55	0.99	-0.22	0.33	0.24	0.79	0.50	0	0.44	1.55



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007031126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5102^{+153}_{-138}	$3.787^{+0.819}_{-0.351}$	$-0.320^{+0.350}_{-0.250}$	$1.961^{+1.297}_{-1.297}$	$0.860^{+0.265}_{-0.143}$	$0.161^{+2.527}_{-0.135}$
	+3%/-3%	+22%/-9%	+109%/-78%	+66%/-66%	+31%/-17%	+1572%/-84%
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 007031126-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-194 ± 60	$14.90^{+17.64}_{-10.51}$	1312^{+227}_{-229}	2846^{+1276}_{-562}	$5.620^{+61.693}_{-4.529}$
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 $A_{\text{obs}} \gg 1.0$

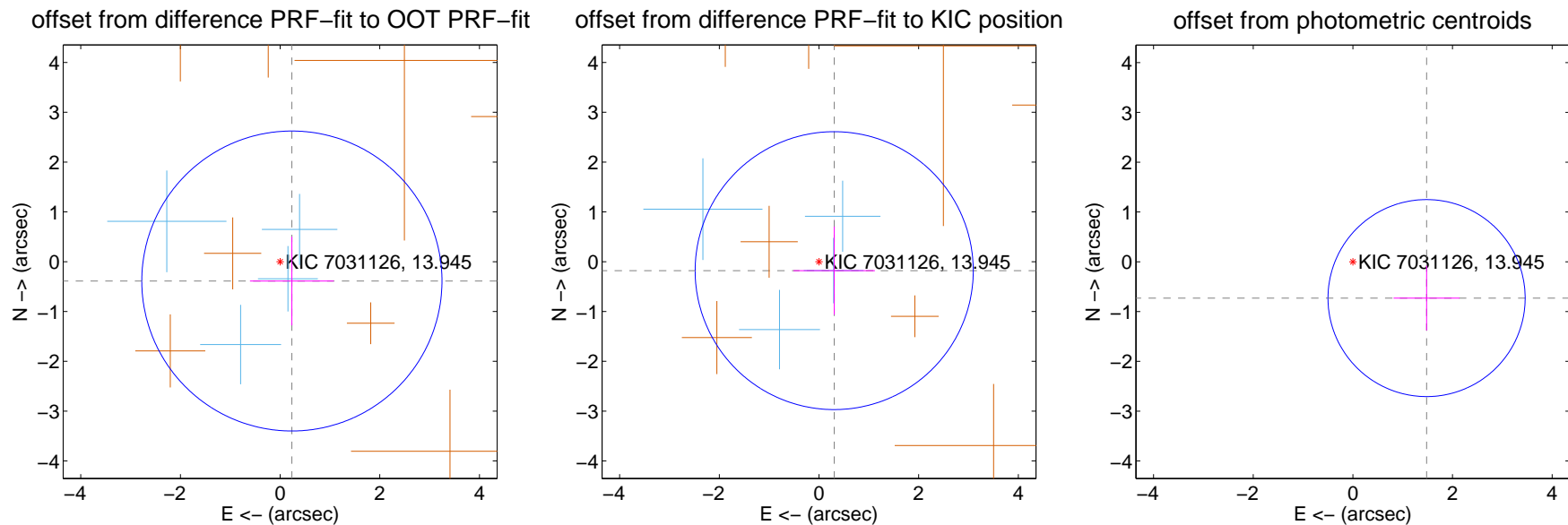
DV Centroid Data

Supplemental centroid analysis for 007031126-07. Kepler magnitude: 13.95. Transit SNR 8.55

There are 4 quarters with good PRF difference image offsets

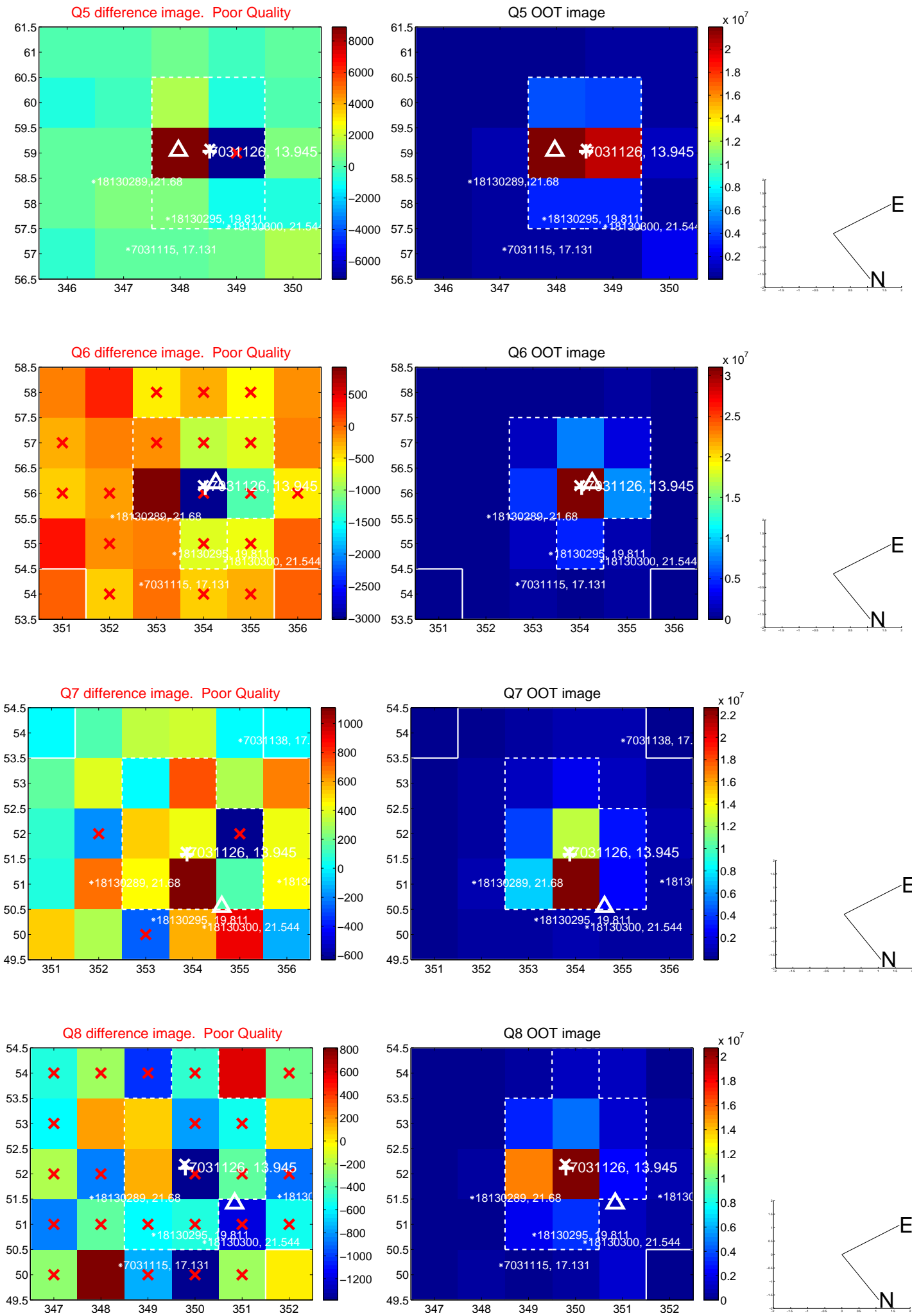
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.454 ± 1.004	0.45	-0.236 ± 0.841	-0.388 ± 0.890
PRF-fit source offset from KIC position	0.354 ± 0.930	0.38	-0.305 ± 0.816	-0.180 ± 0.885
photometric centroid source offset	1.65 ± 0.66	2.50	-1.48 ± 0.66	-0.73 ± 0.65

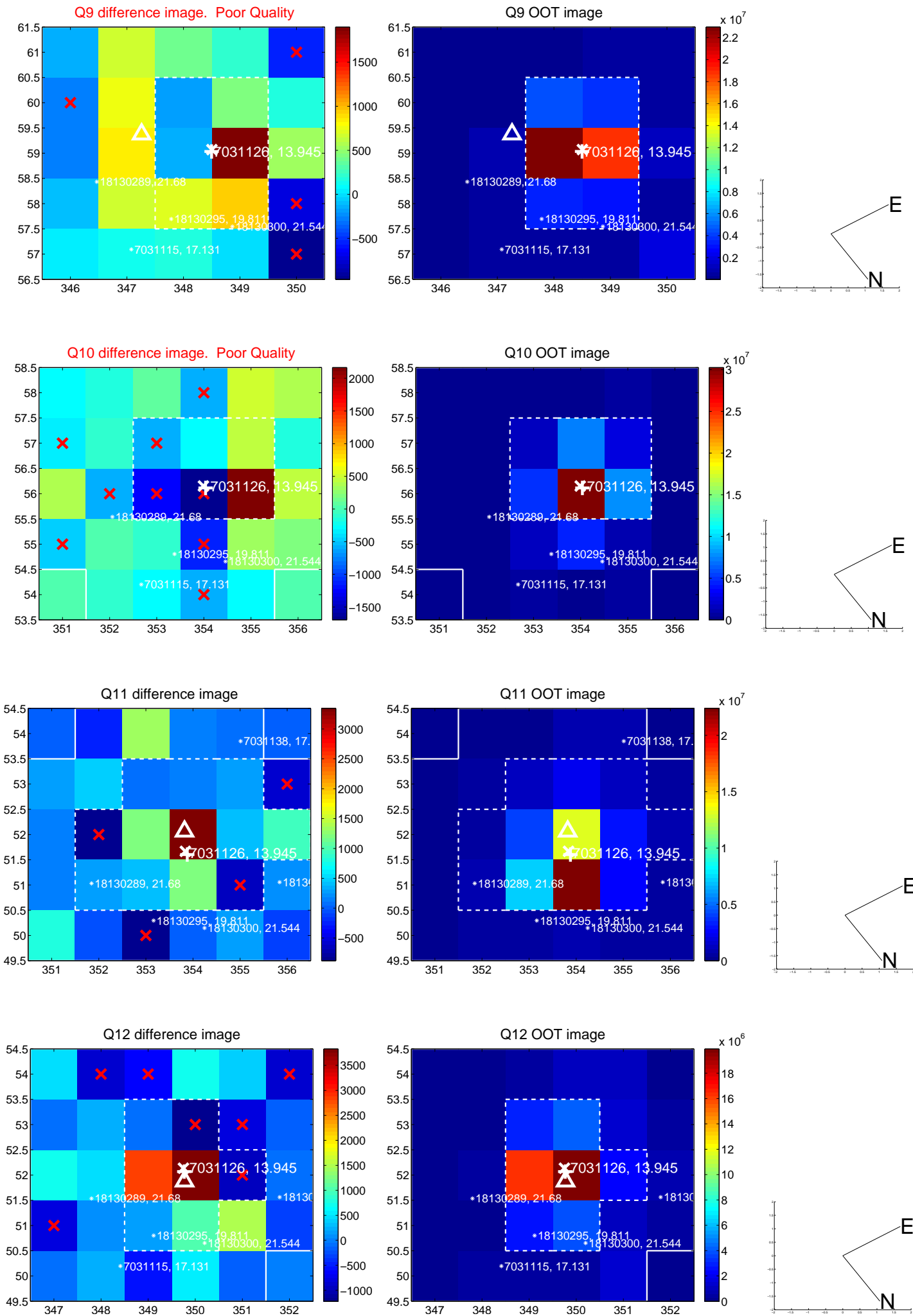


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

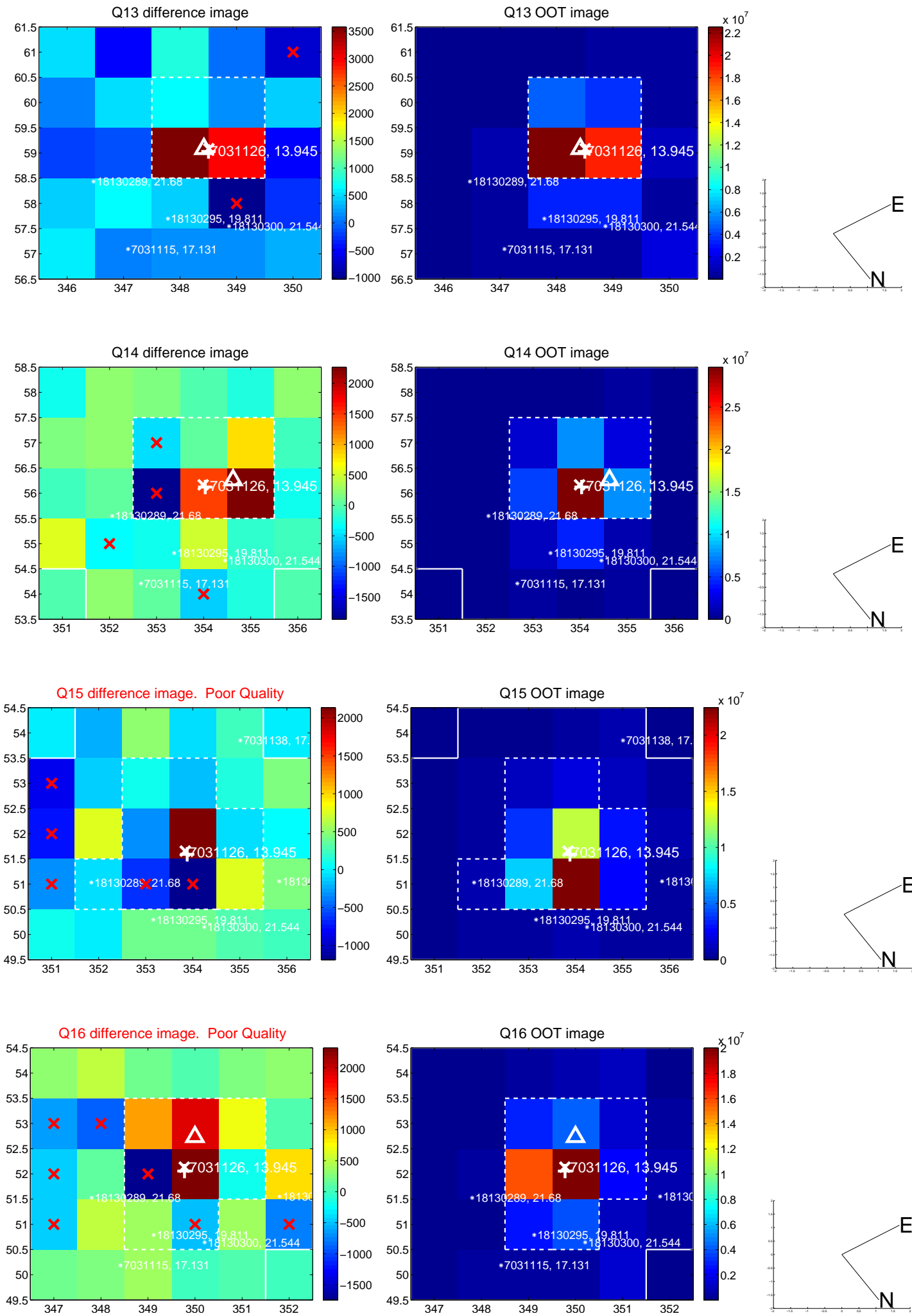
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



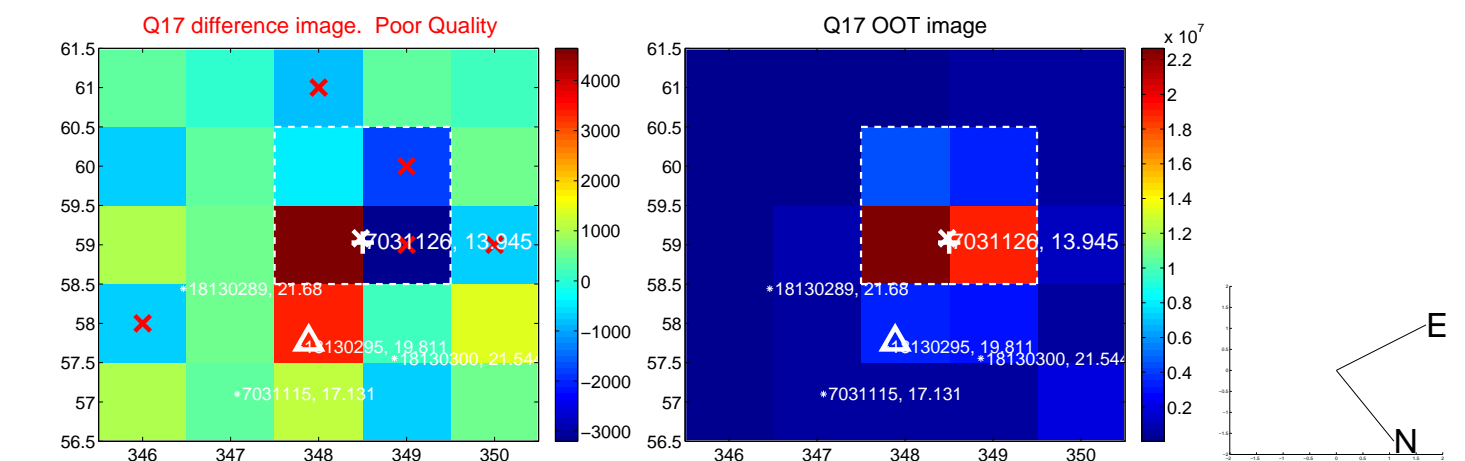
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



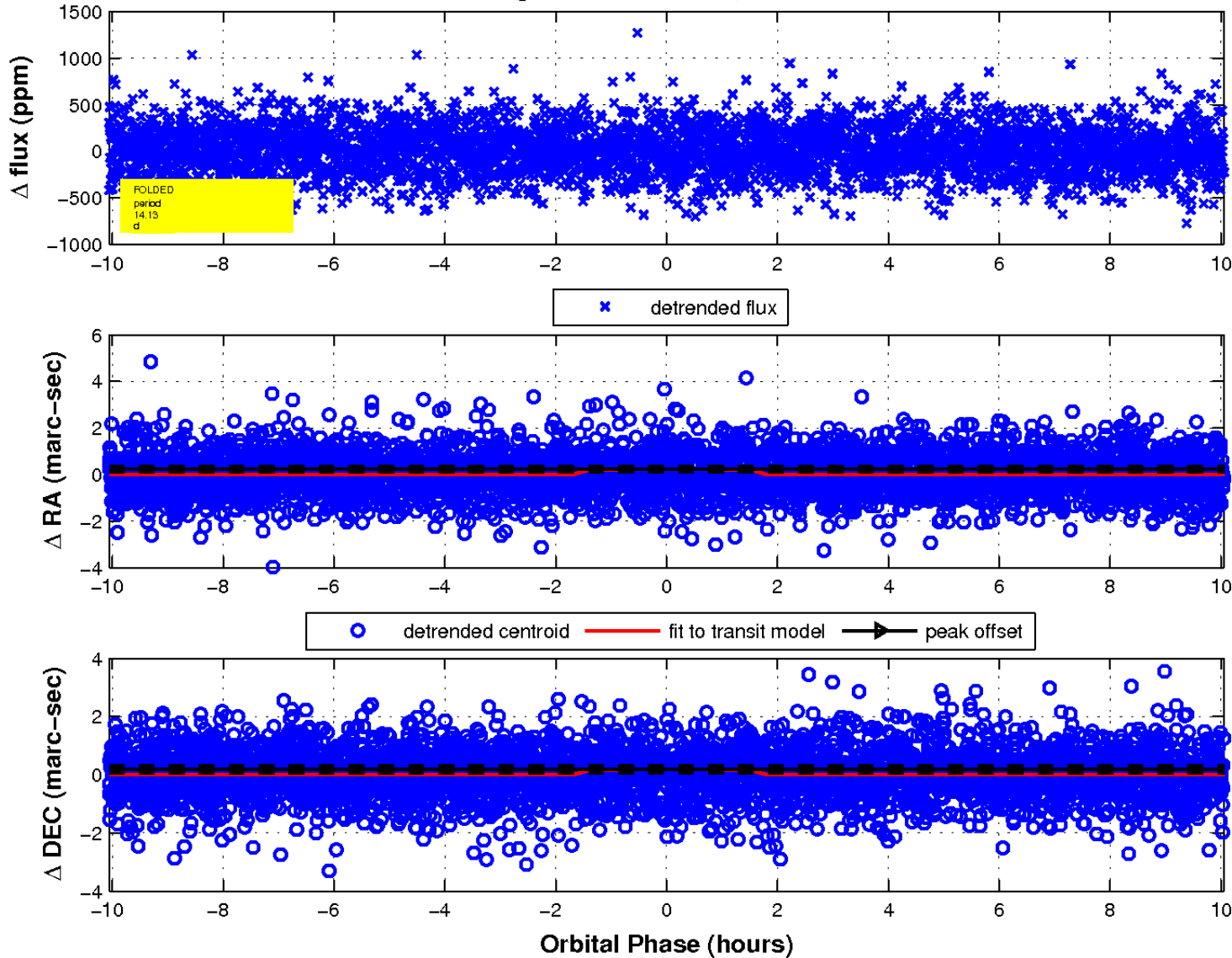
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 7 of 7



UKIRT Image

Declination

