

KIC 005125048

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})
005125048-01	OBS	6528.01	0.568153	132.086126	127.9	3.507	14.5	9.1	1.40	6751	1.61	17668.94
005125048-02	OBS	No	48.355304	153.122262	4659.2	1.428	12.9	12.0	1.40	6751	10.79	47.20
005125048-03	OBS	No	0.989920	132.016641	0.2	1.972	12.2	0.0	1.40	6751	0.07	8427.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005125048-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005125048-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
005125048-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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 005125048-01

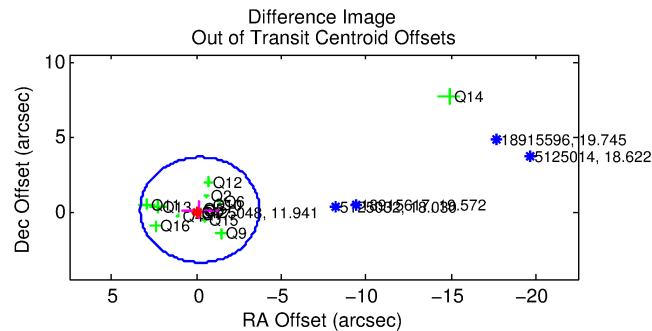
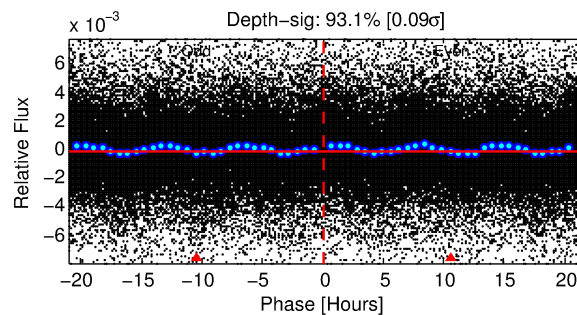
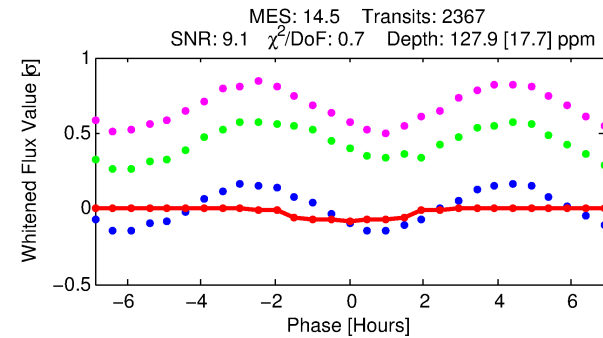
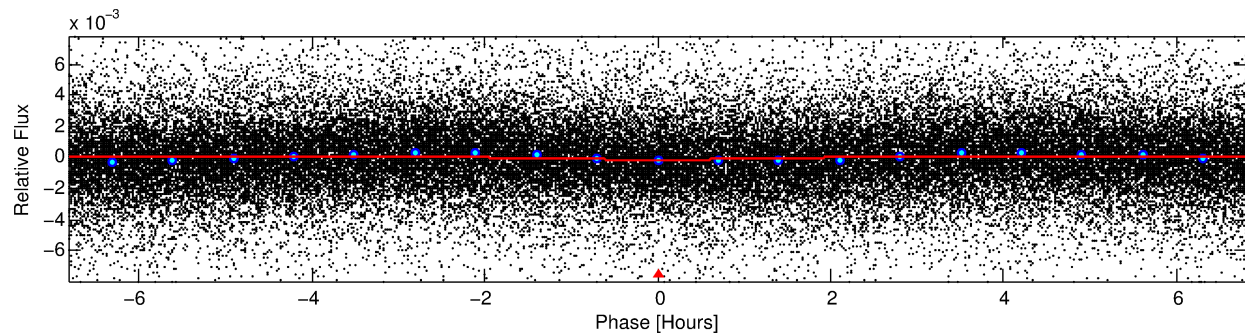
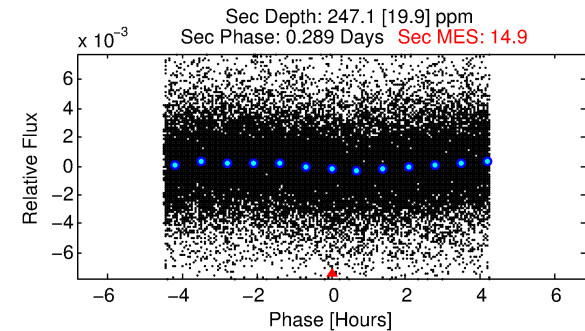
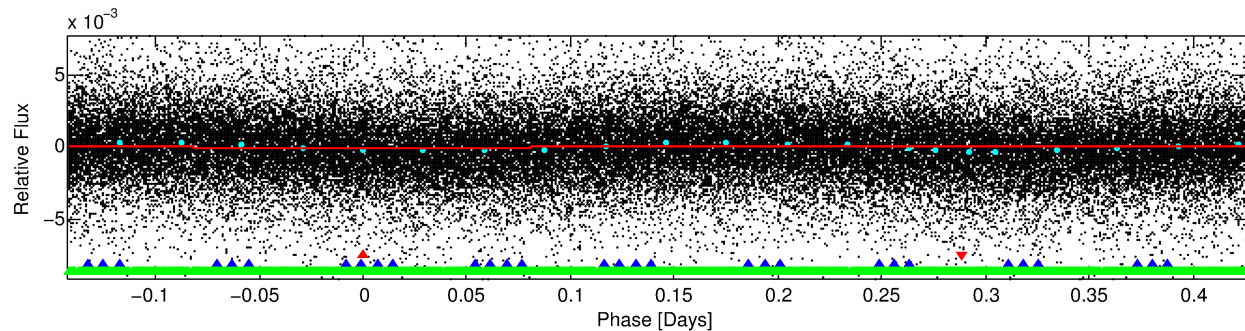
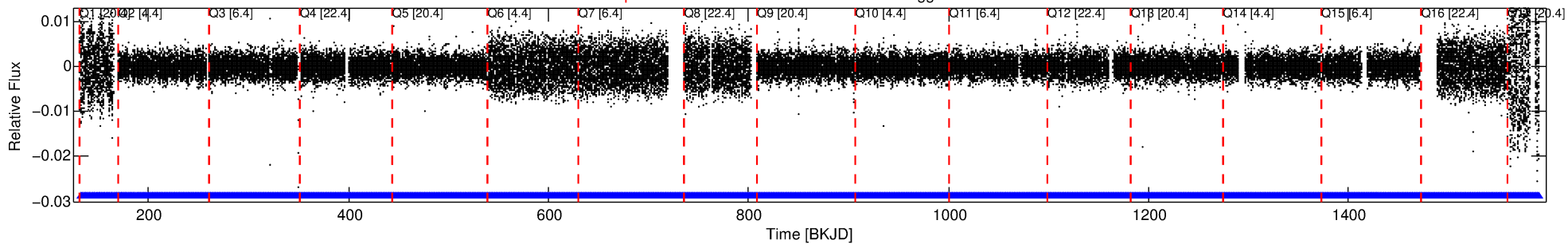
No Significant Match Found

DV One-Page Summary

KIC: 5125048 Candidate: 1 of 3 Period: 0.568 d

KOI: K06528 Corr: No Ephemeris Match

Kp: 11.94 R*: 1.40 Rs Teff: 6751.0 K Logg: 4.23 Fe/H: -0.320



DV Fit Results:

Period = 0.56815 [0.00001] d
Epoch = 132.0861 [0.0037] BKJD
Rp/R* = 0.0106 [0.0104]
a/R* = 1.37 [3.50]
b = 0.31 [16.08]
Seff = 17668.94 [6641.97]
Teq = 2940 [276] K
Rp = 1.61 [1.66] Re
a = 0.0143 [0.0035] AU
Ag = 10.80 [21.69] [0.45σ]
Teffp = 8239 [4083] K [1.29σ]

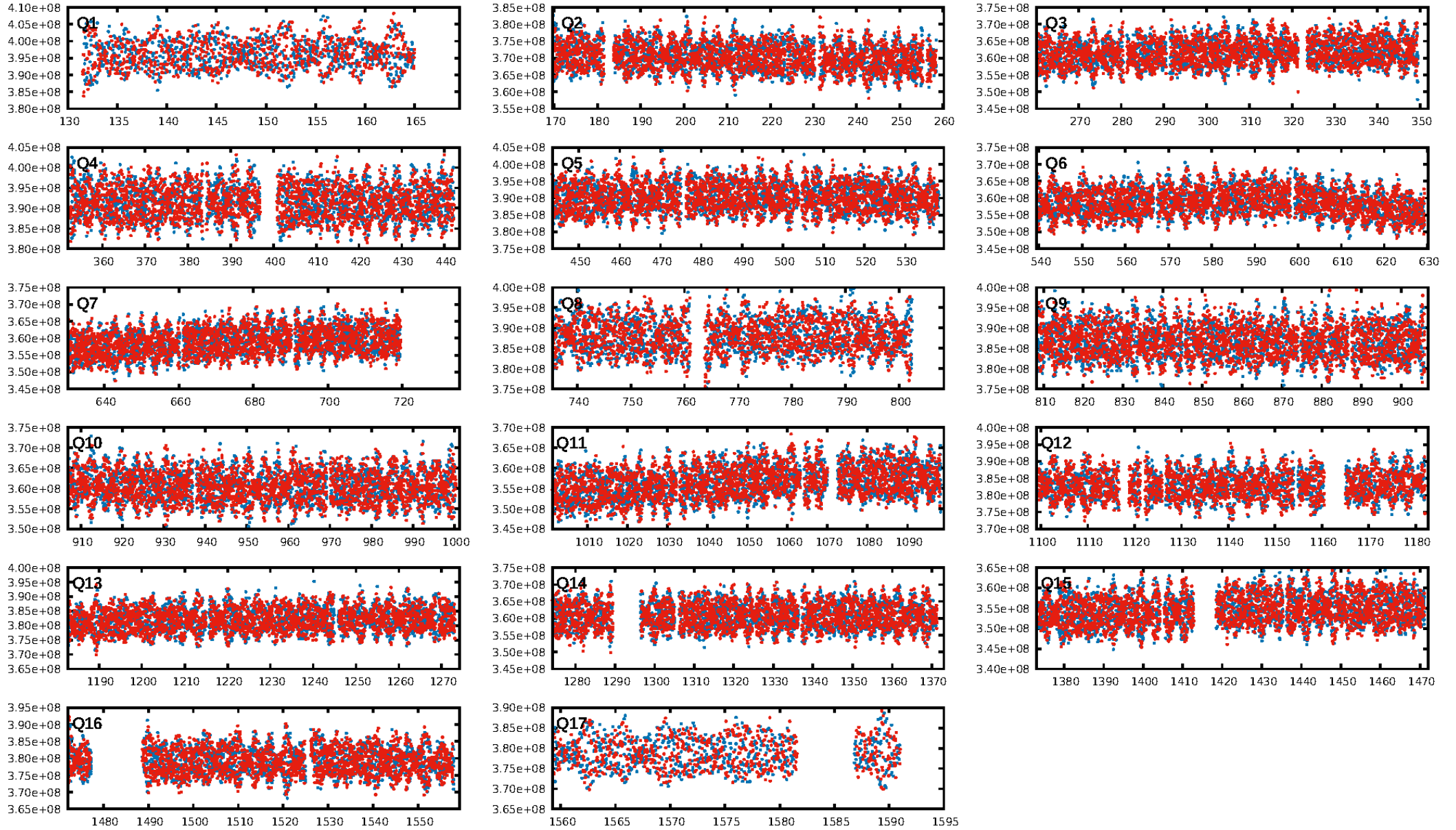
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 98.8% [2.52σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.25e-24
RollingBand-fgt: 1.00 [2260/2260]
GhostDiagnostic-chr: 1.721
Centroid-sig: 0.0%
Centroid-so: 0.299 arcsec [3.74σ]
OotOffset-rm: 0.229 arcsec [0.20σ]
KicOffset-rm: 0.259 arcsec [0.22σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.60 [9/15]
DiffImageOverlap-fno: 1.00 [17/17]

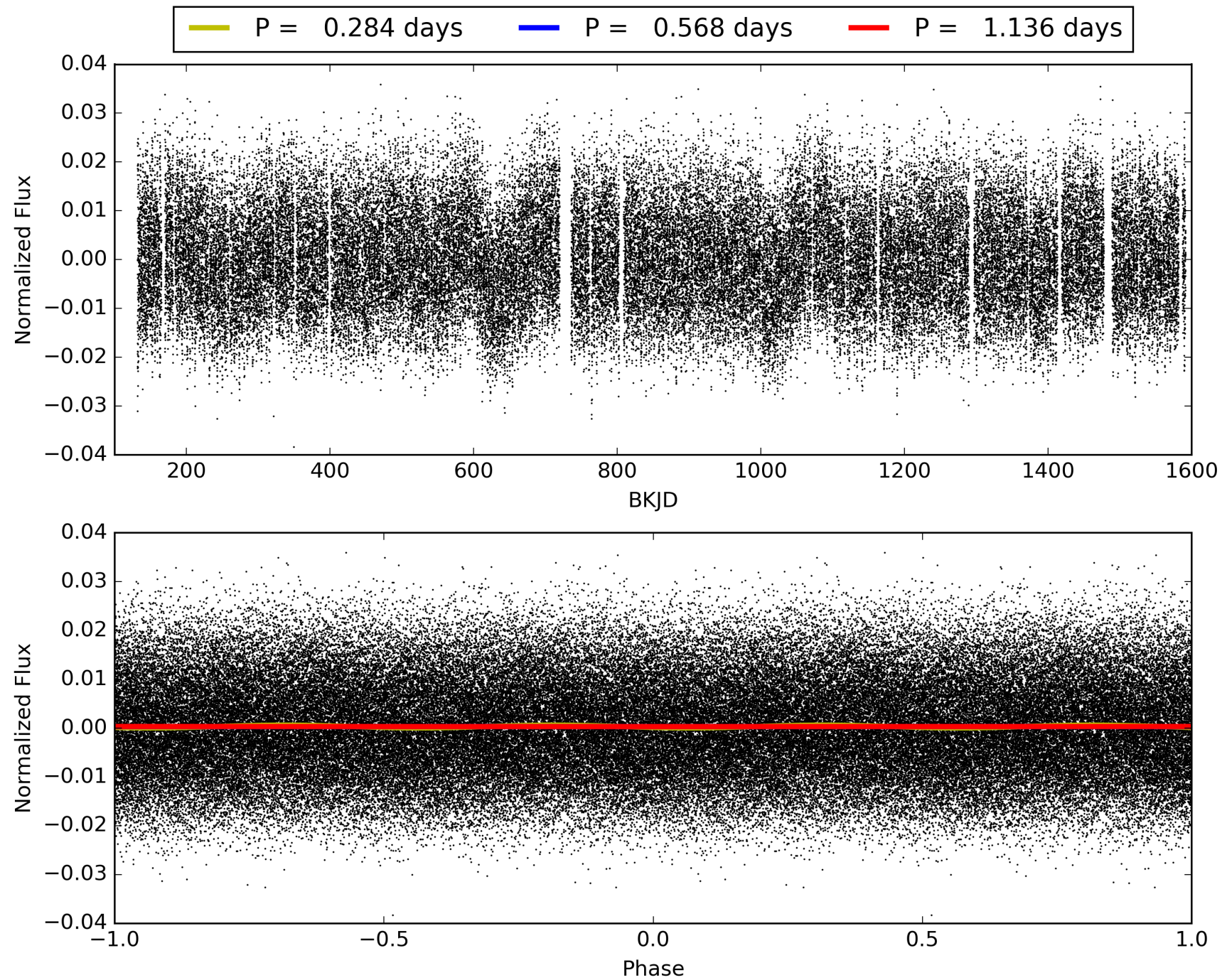
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:06:21 Z

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

TCE 005125048-01, PDC Light Curves

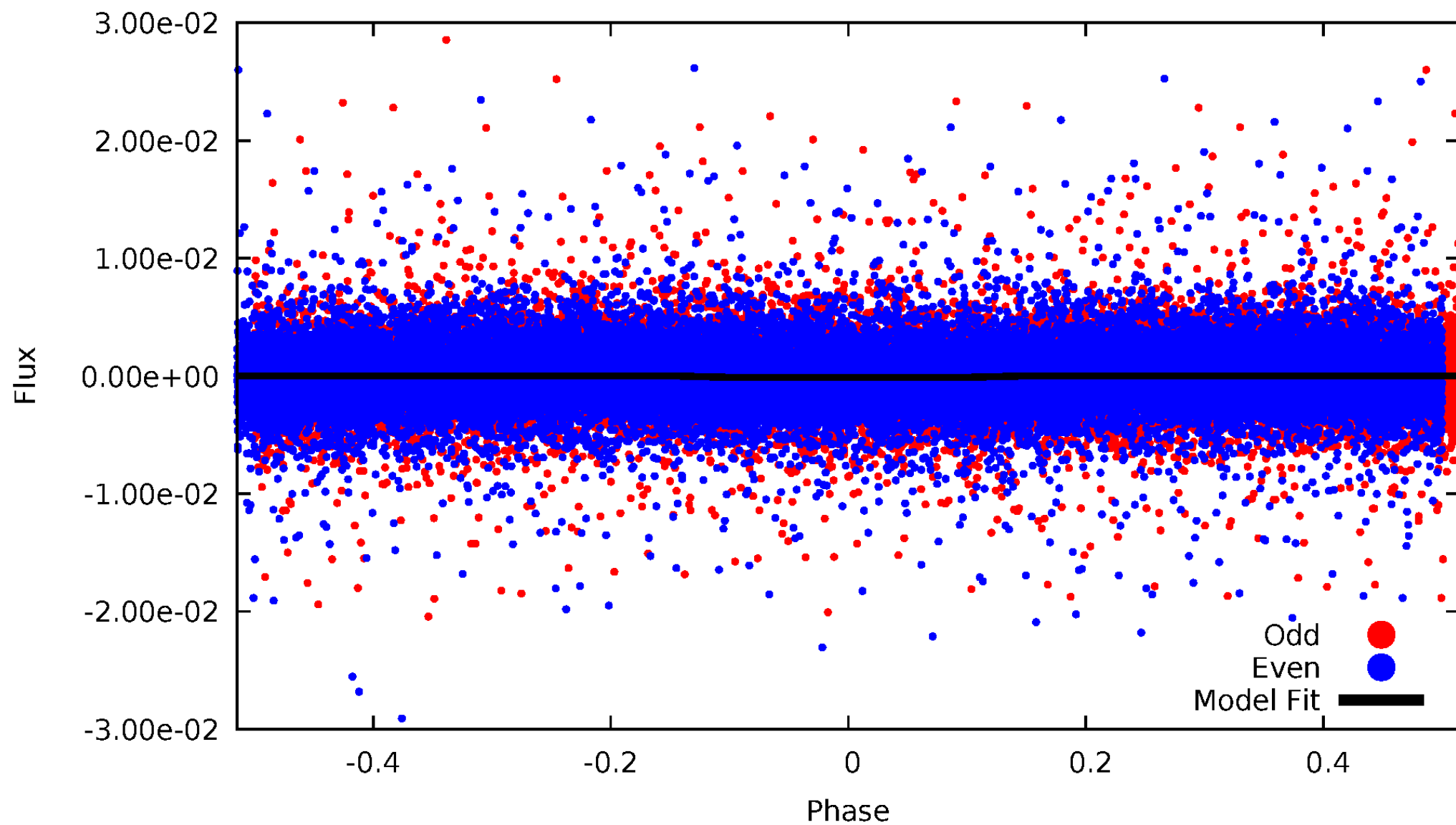


TCE 005125048-01



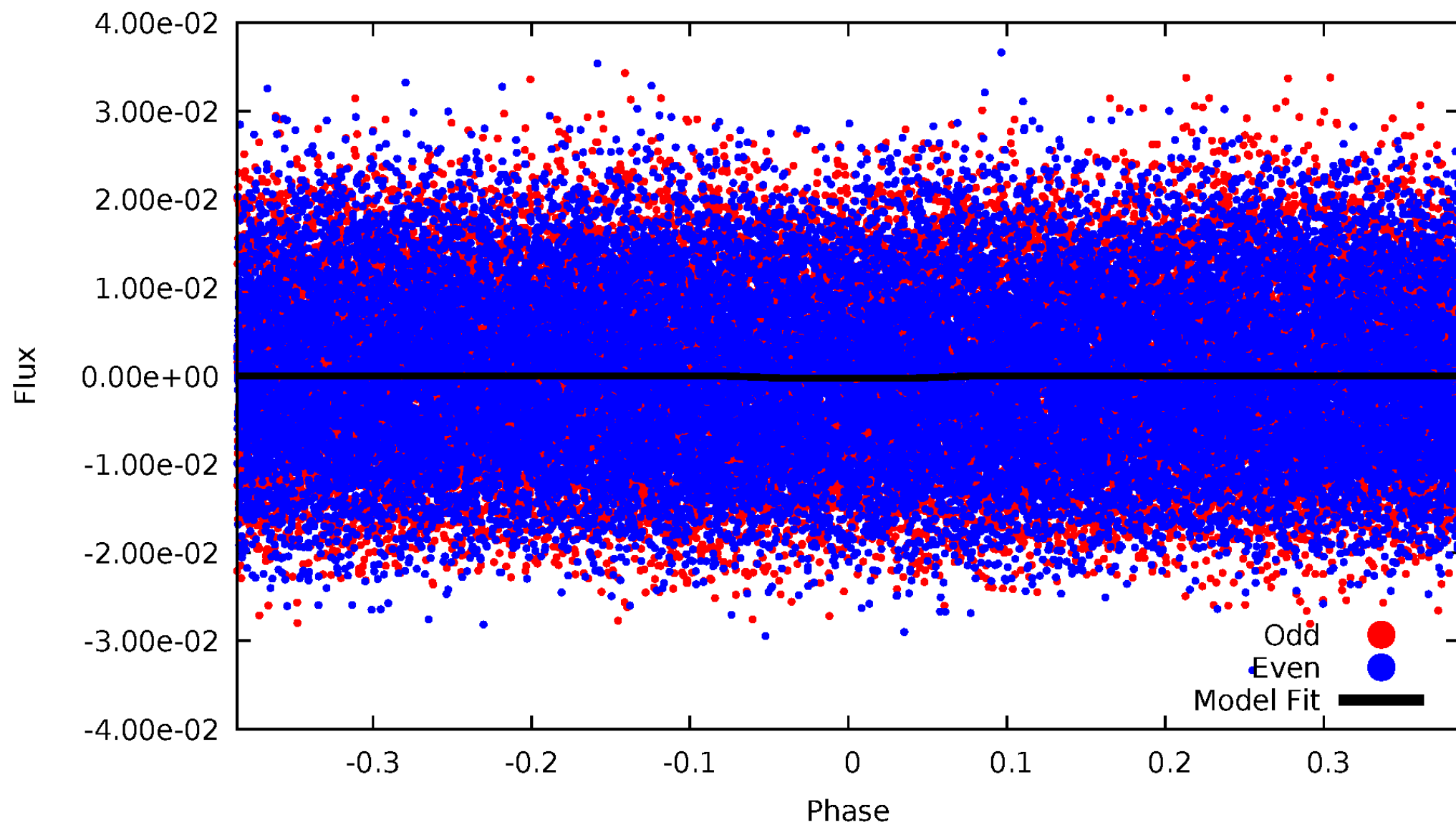
DV Odd/Even

TCE 005125048-01



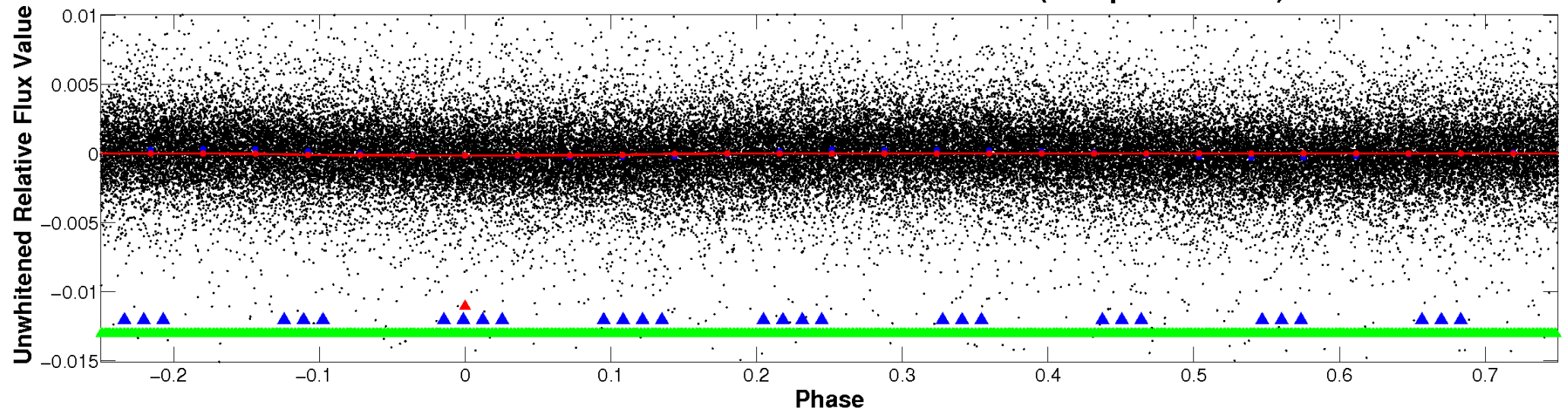
ALT Odd/Even

TCE 005125048-01

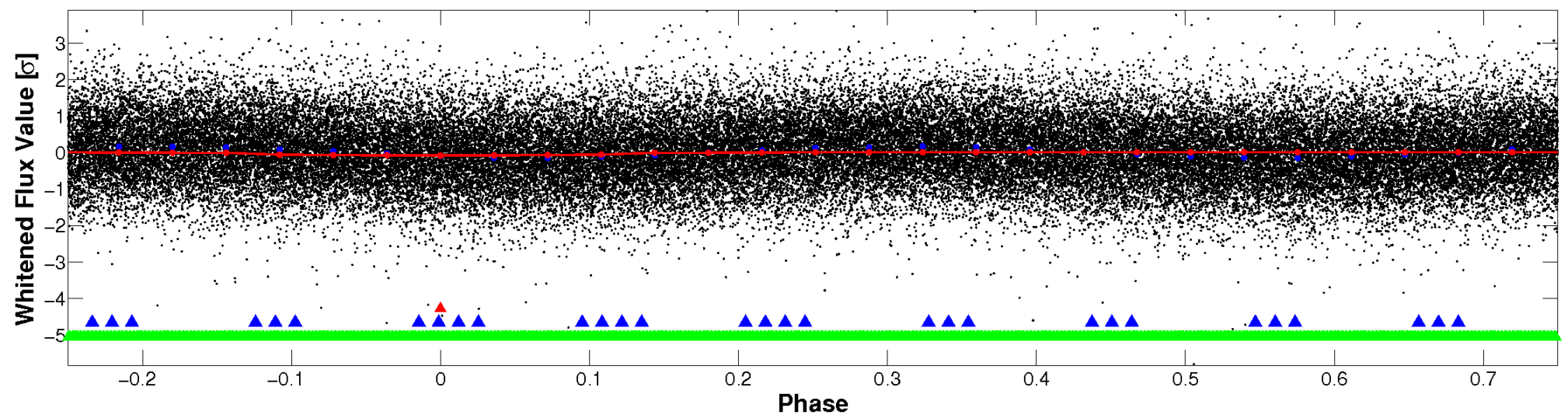


Non-Whitened Vs. Whitened Light Curve

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

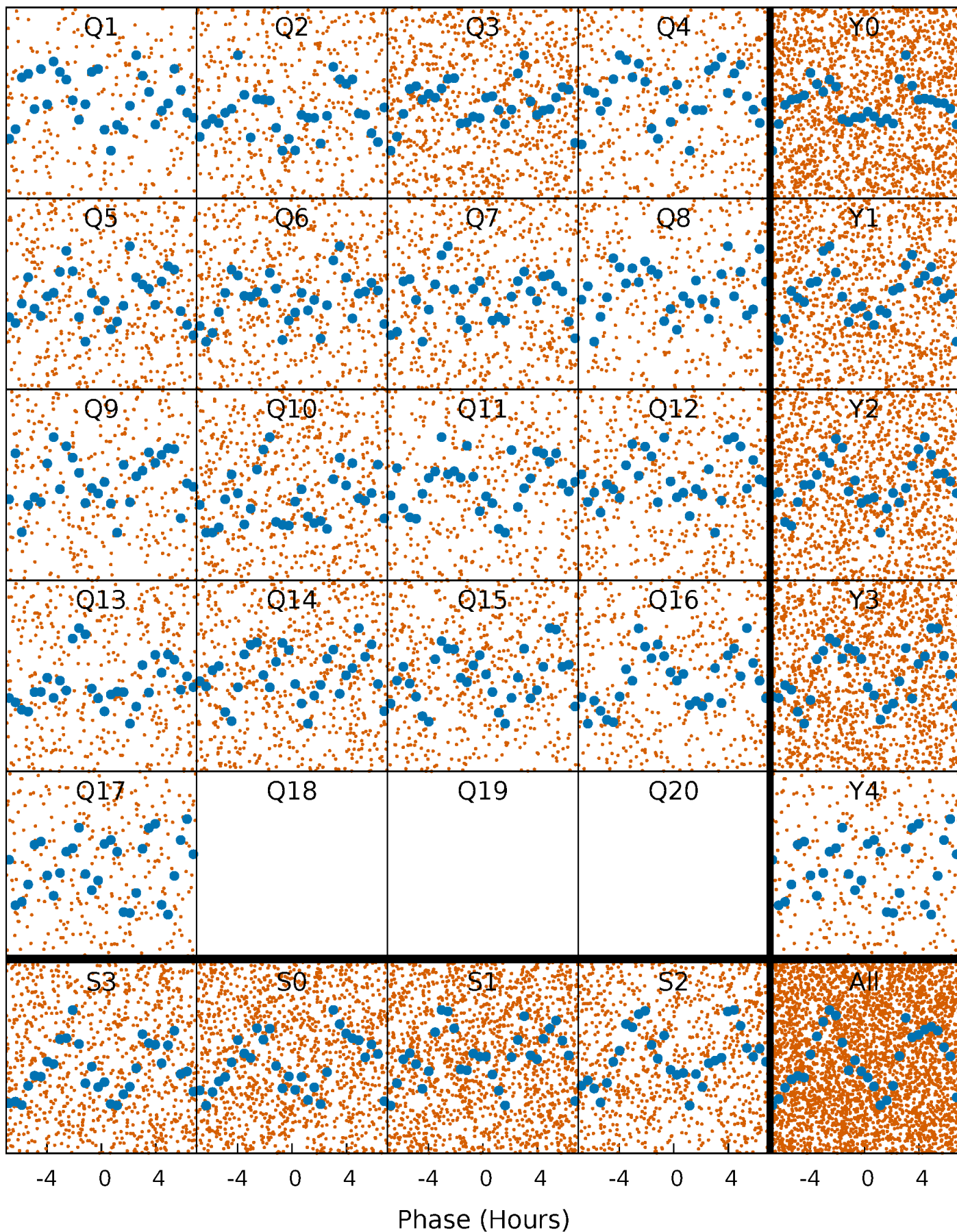


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



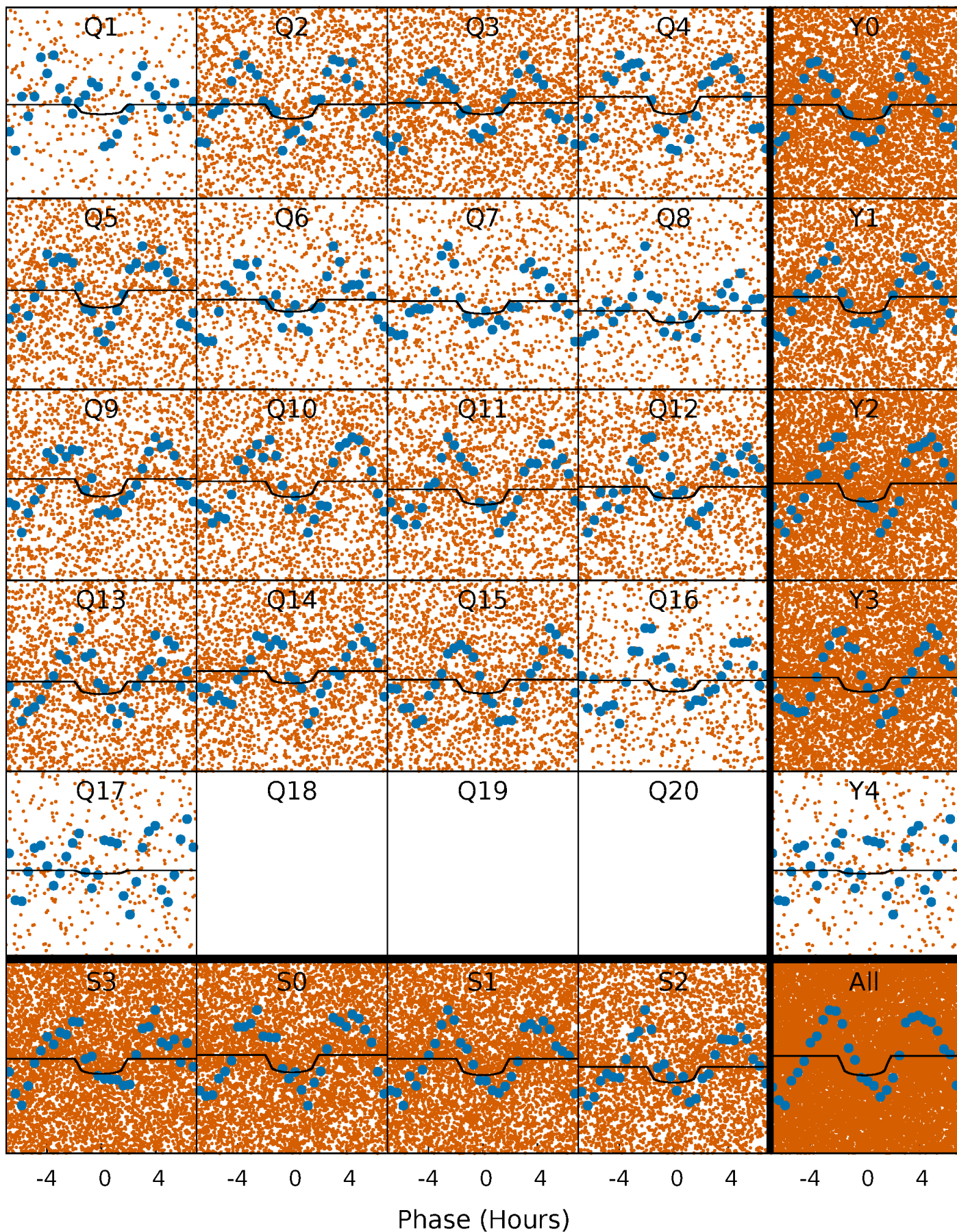
PDC Quarter-Phased Transit Curves

TCE 005125048-01 P= 0.568153 Days $T_0=132.086126$ (BKJD)



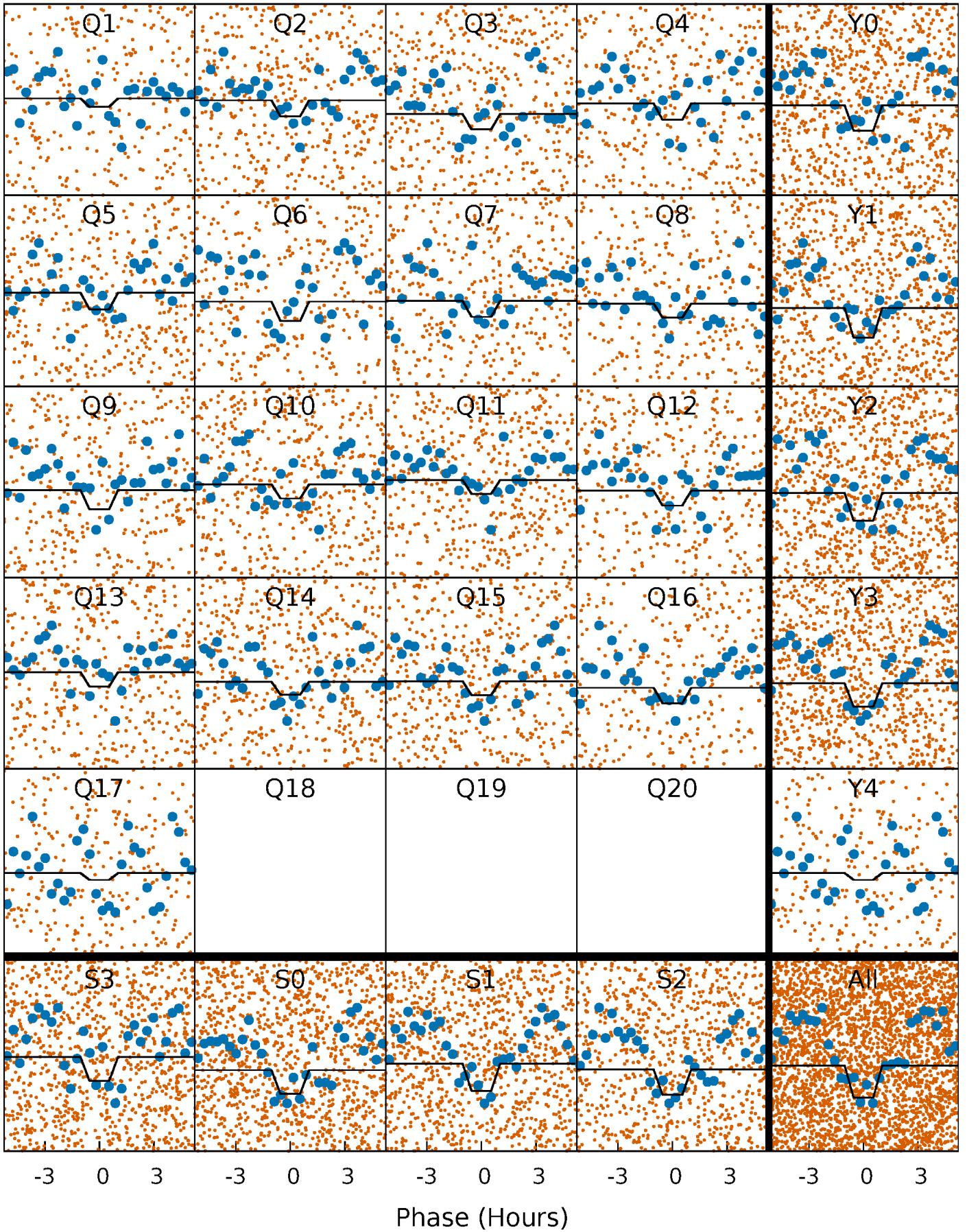
DV Quarter-Phased Transit Curves

TCE 005125048-01 P= 0.568153 Days $T_0=132.086126$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

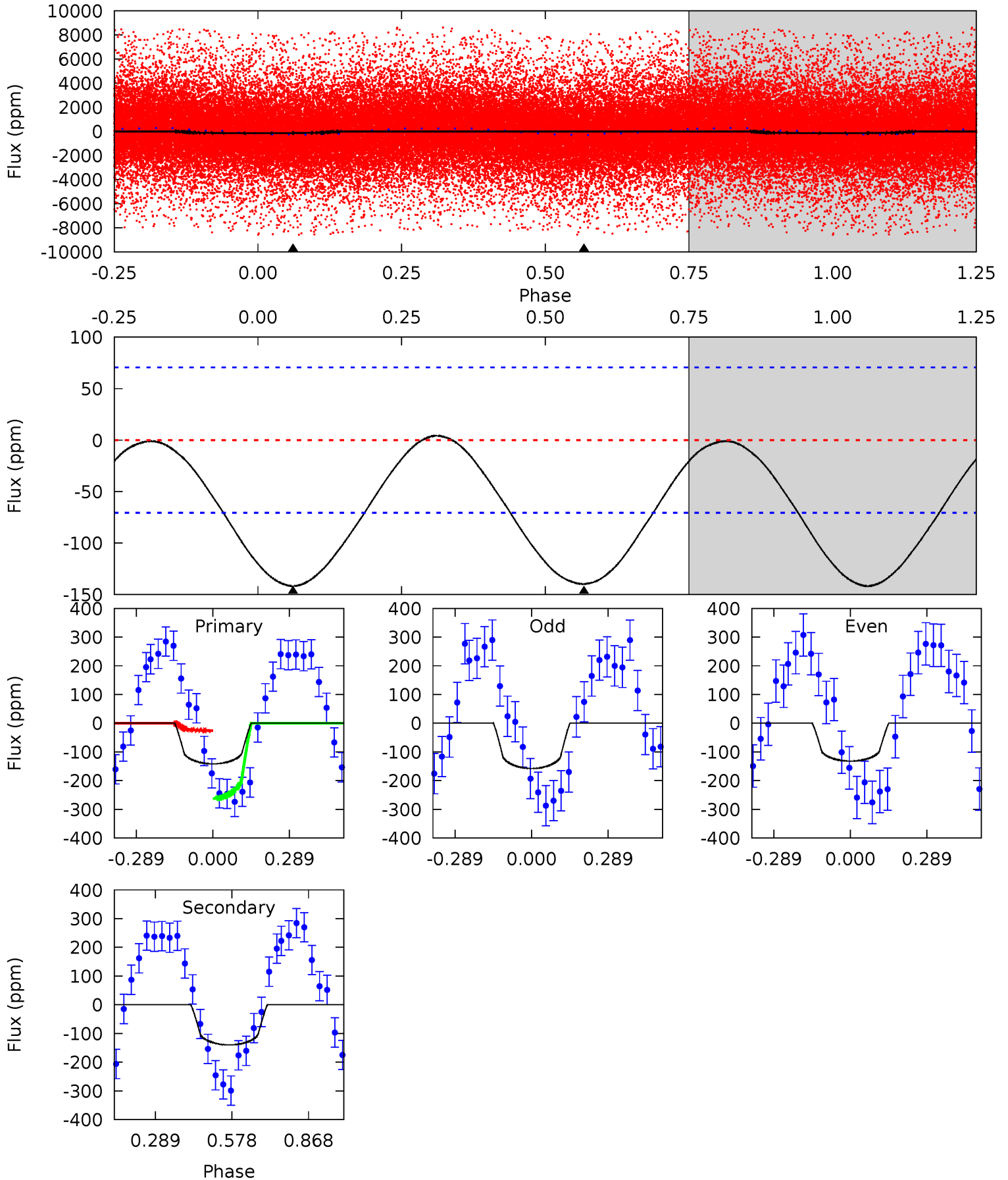
TCE 005125048-01 P= 0.568188 Days $T_0=132.069885$ (BKJD)



DV Model-Shift Uniqueness Test

005125048-01, P = 0.568153 Days, E = 130.949820 Days

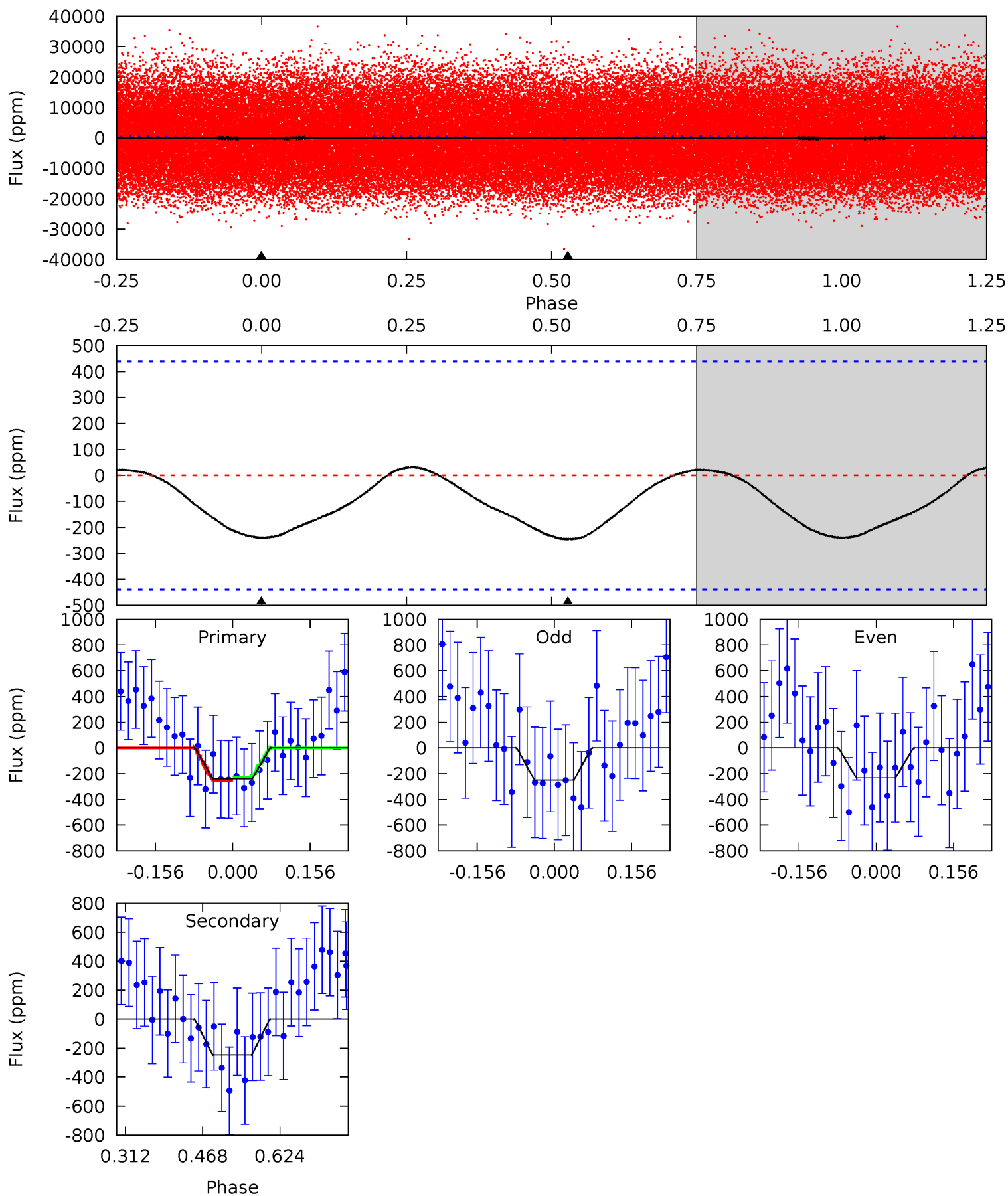
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.70	8.58	0	0	4.34	1.06	0.16	8.70	8.70	8.58	8.58	0.78	0.98	0.03	7.20



Alt Model-Shift Uniqueness Test

005125048-01, P = 0.568188 Days, E = 131.501697 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.45	2.50	0	0	4.47	1.42	0.36	2.45	2.45	2.50	2.50	0.09	0.93	0.12	0.13



Stellar Parameters For KIC 005125048

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6751^{+162}_{-223}	$4.233^{+0.128}_{-0.192}$	$-0.320^{+0.250}_{-0.300}$	$1.397^{+0.403}_{-0.268}$	$1.224^{+0.170}_{-0.170}$	$0.633^{+0.444}_{-0.303}$
	+2%/-3%	+3%/-5%	+78%/-94%	+29%/-19%	+14%/-14%	+70%/-48%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005125048-01 / KOI 6528.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-140 ± 16	$2.03^{+1.53}_{-1.31}$	4129^{+333}_{-257}	6281^{+6517}_{-1644}	$3.843^{+25.557}_{-2.623}$
Alt.	-246 ± 98	$2.69^{+1.87}_{-1.52}$	4144^{+315}_{-250}	5986^{+4549}_{-1414}	$3.266^{+16.161}_{-2.155}$

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

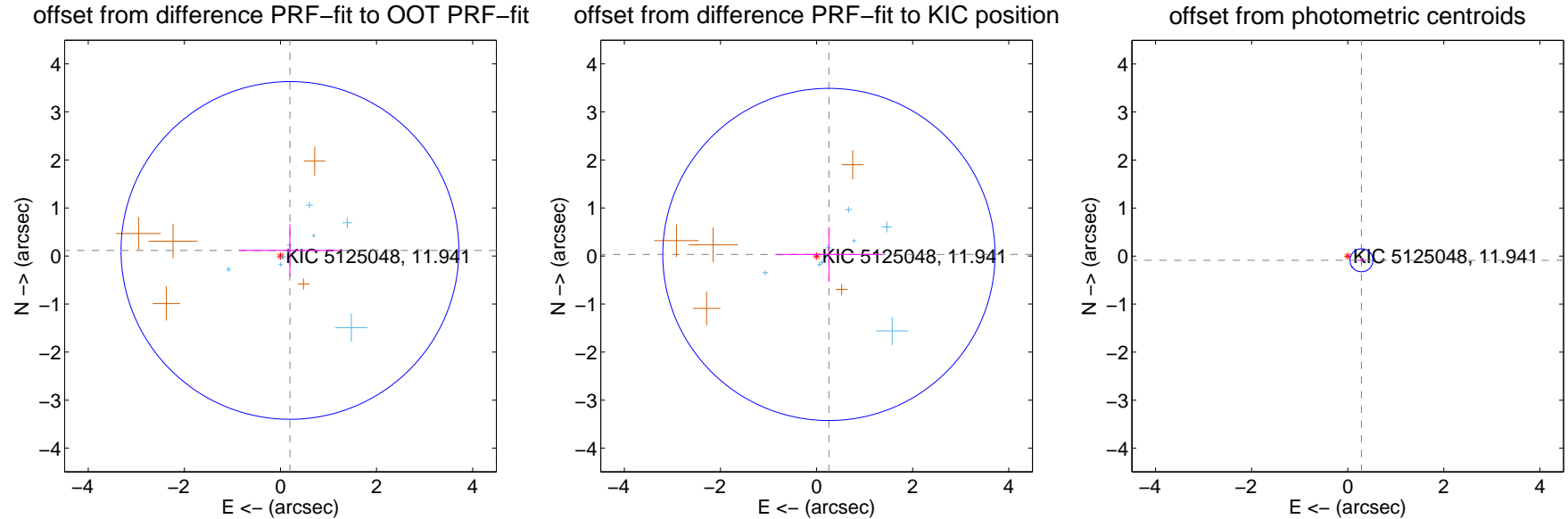
DV Centroid Data

Supplemental centroid analysis for 005125048-01. **Kepler magnitude: 11.94.** Transit SNR 9.14

There are 9 quarters with good PRF difference image offsets

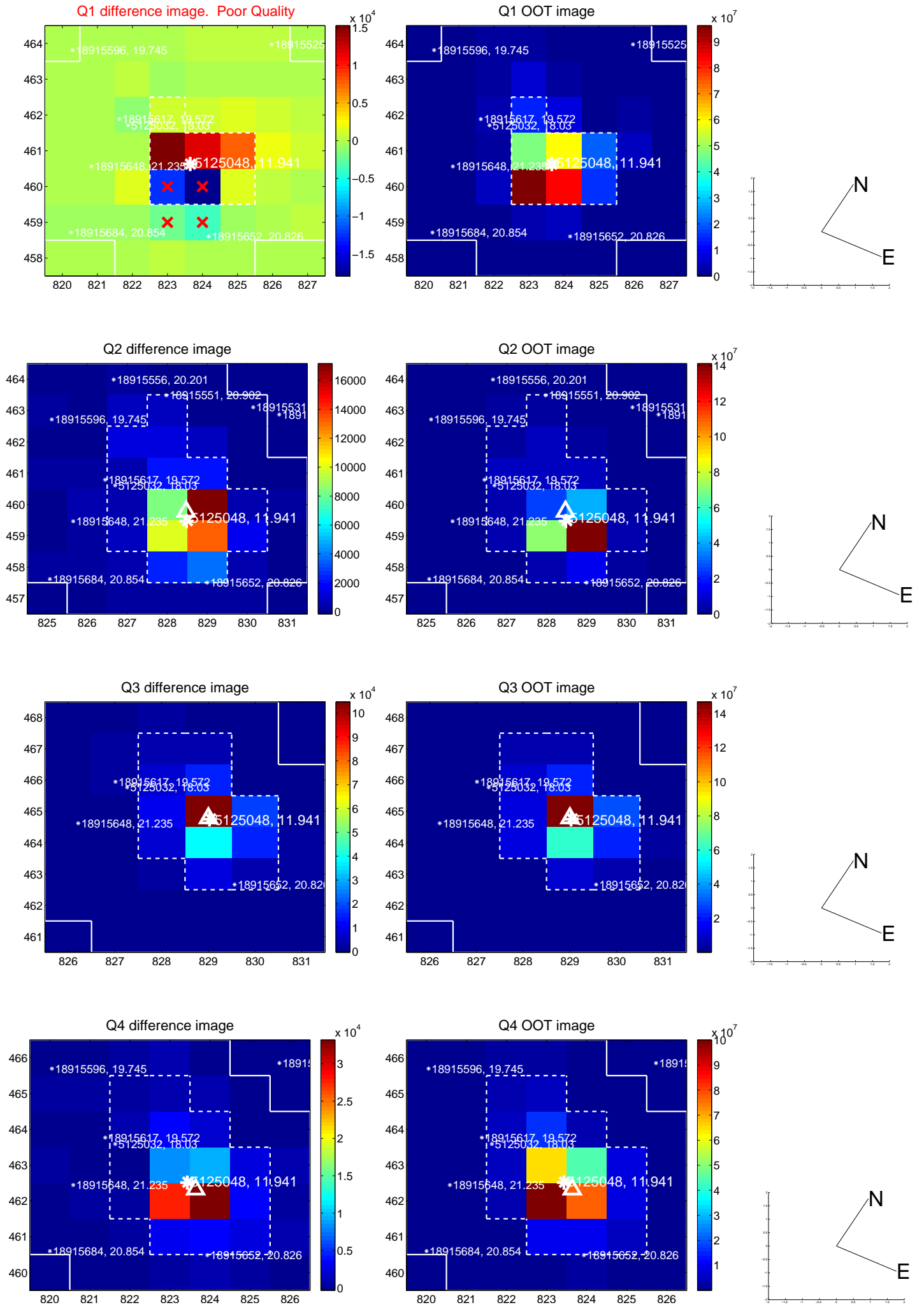
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.229 ± 1.172	0.20	-0.197 ± 1.065	0.116 ± 0.549
PRF-fit source offset from KIC position	0.259 ± 1.152	0.22	-0.257 ± 1.097	0.033 ± 0.568
photometric centroid source offset	0.30 ± 0.08	3.74	-0.29 ± 0.08	-0.09 ± 0.07

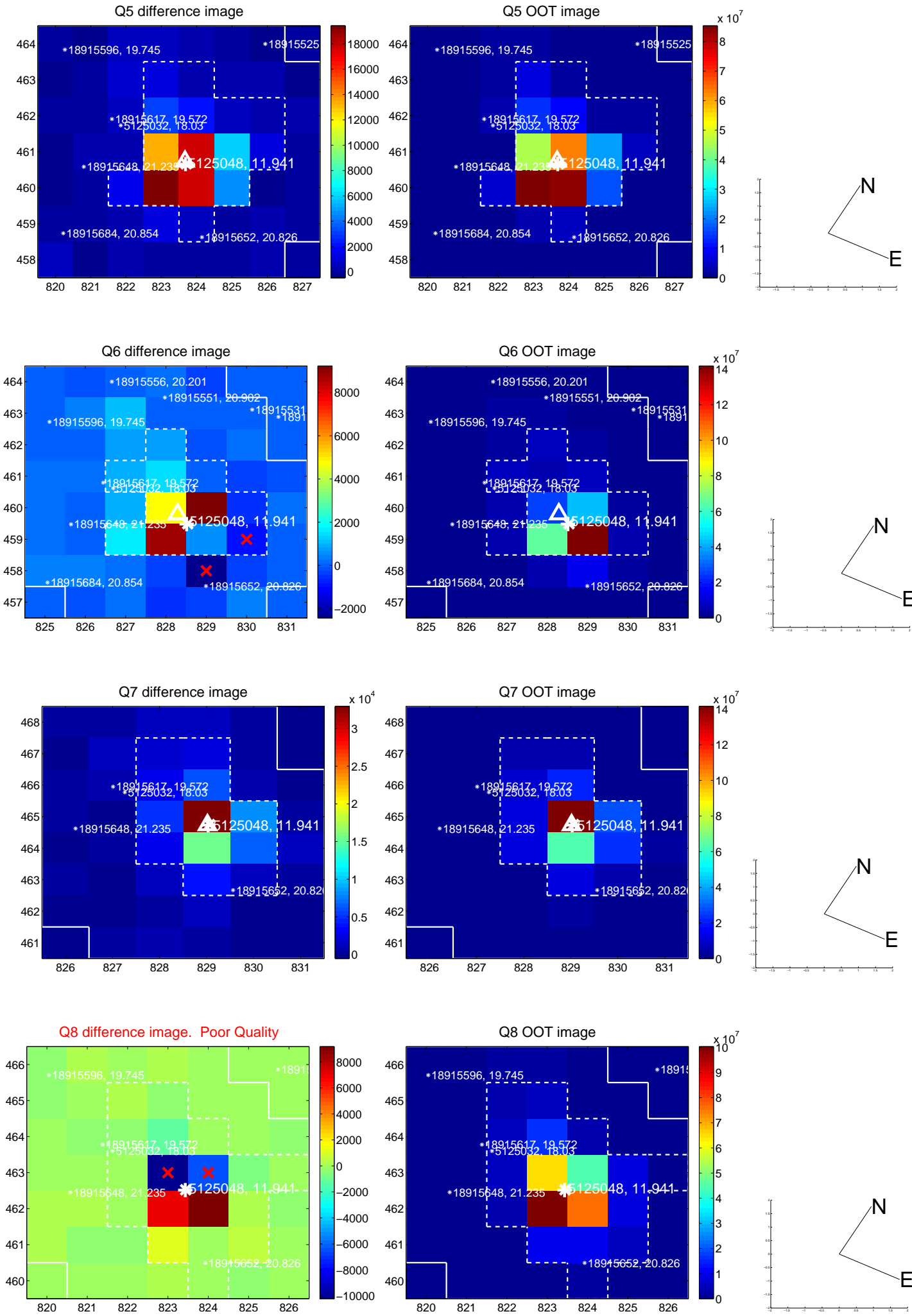


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

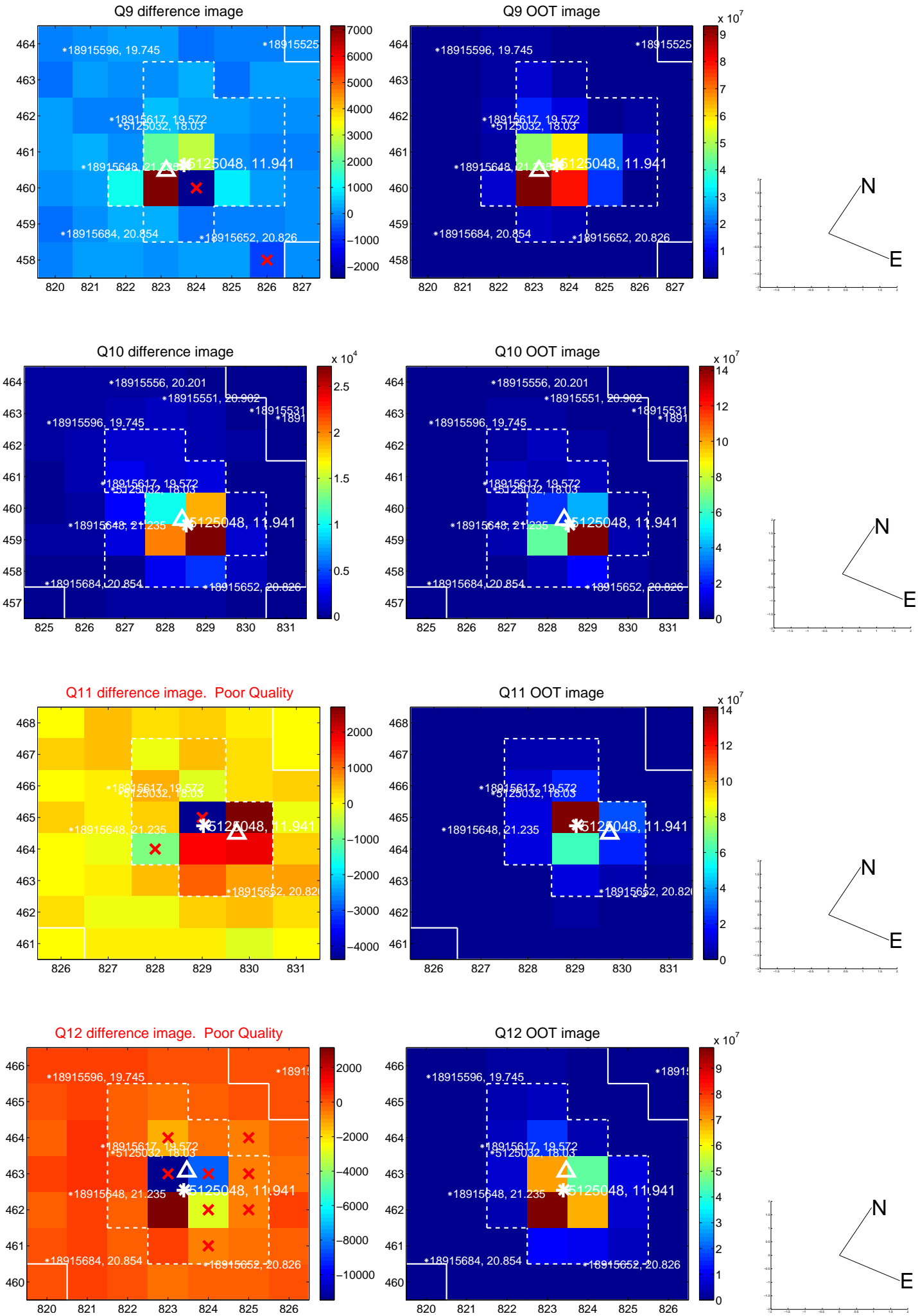
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



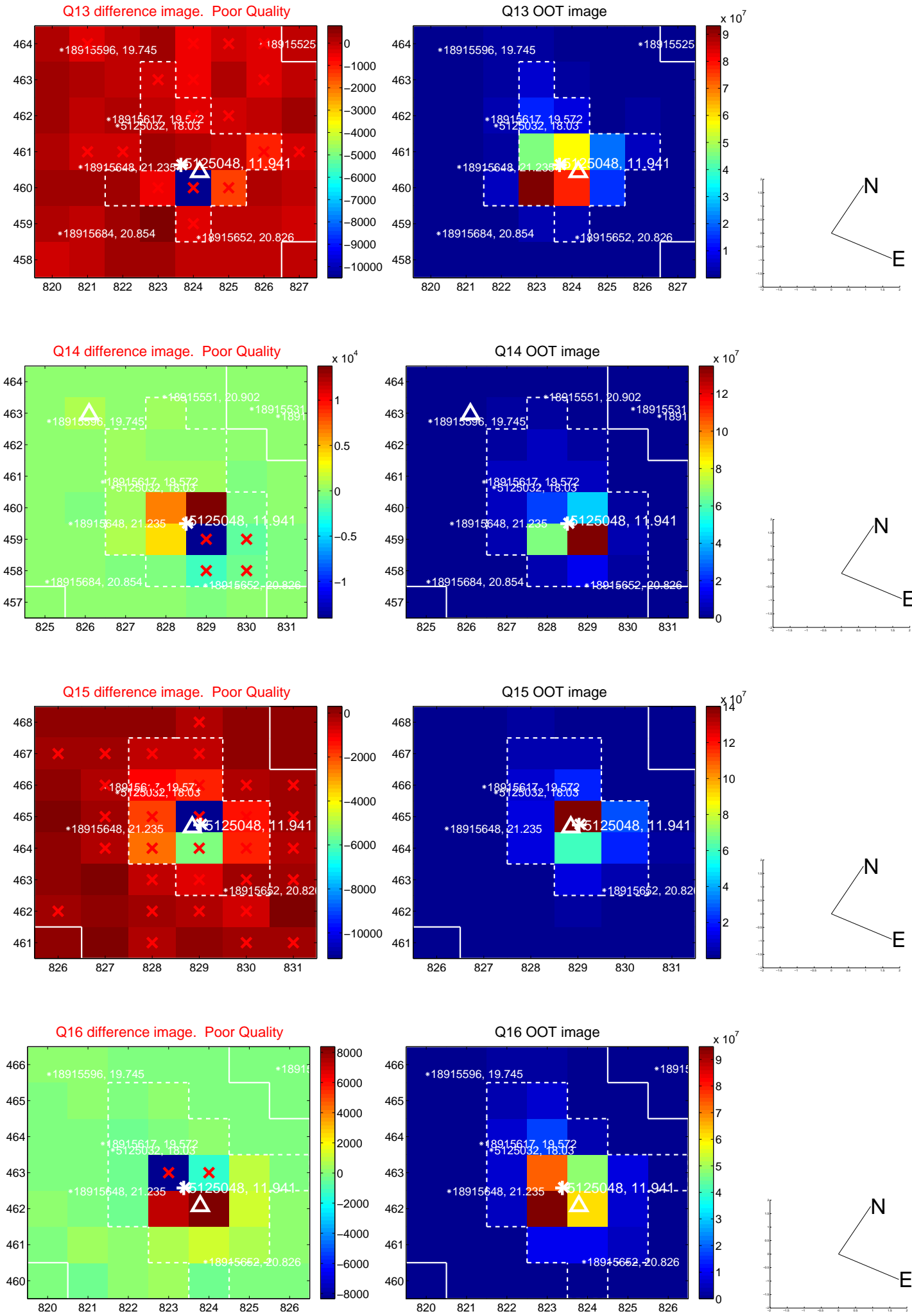
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



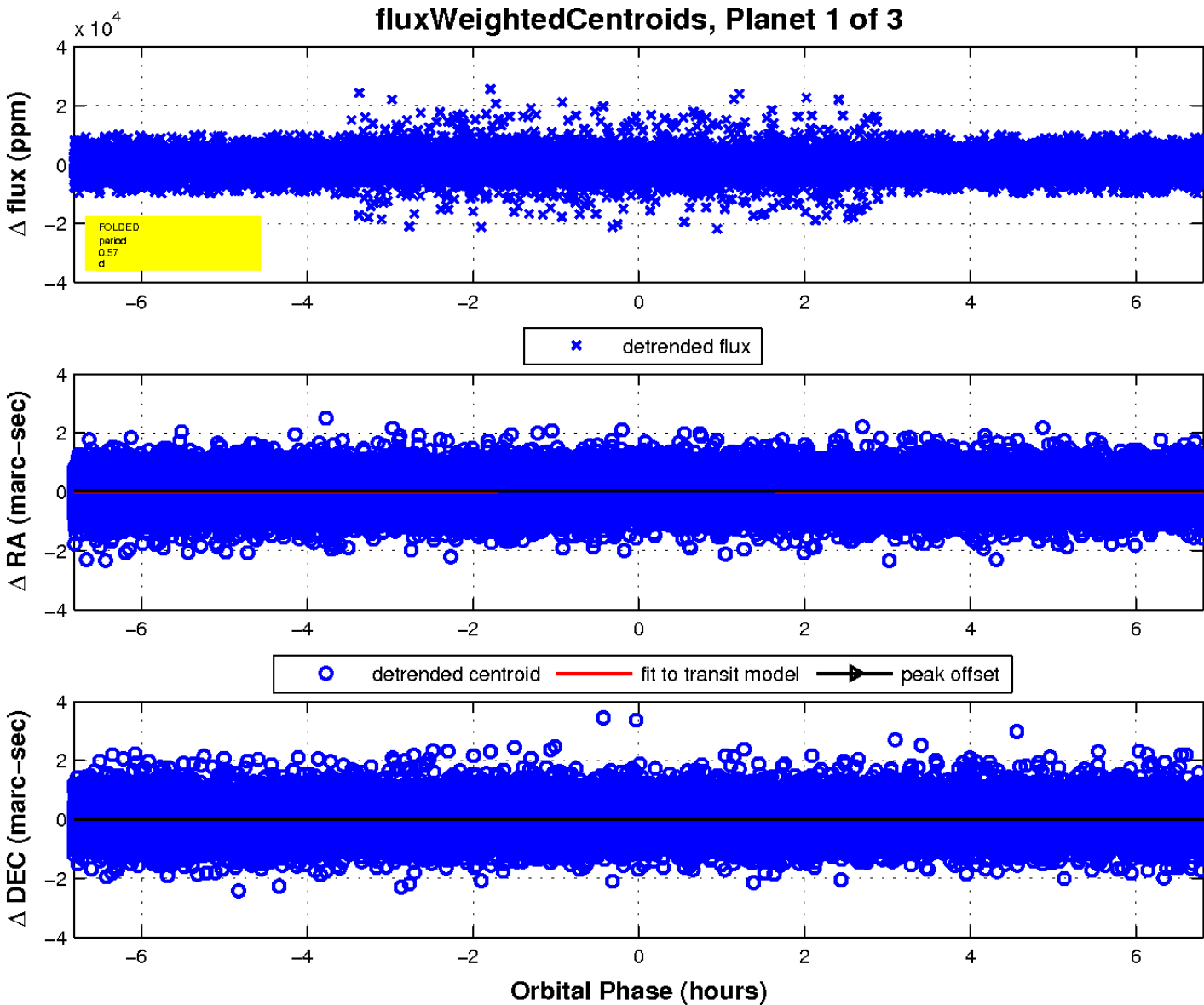
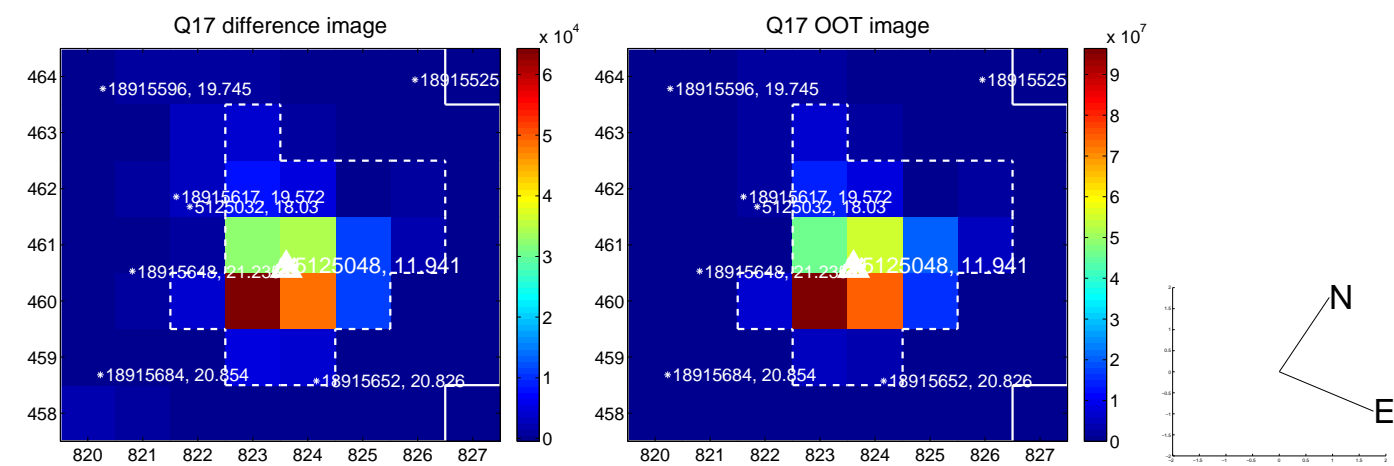
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

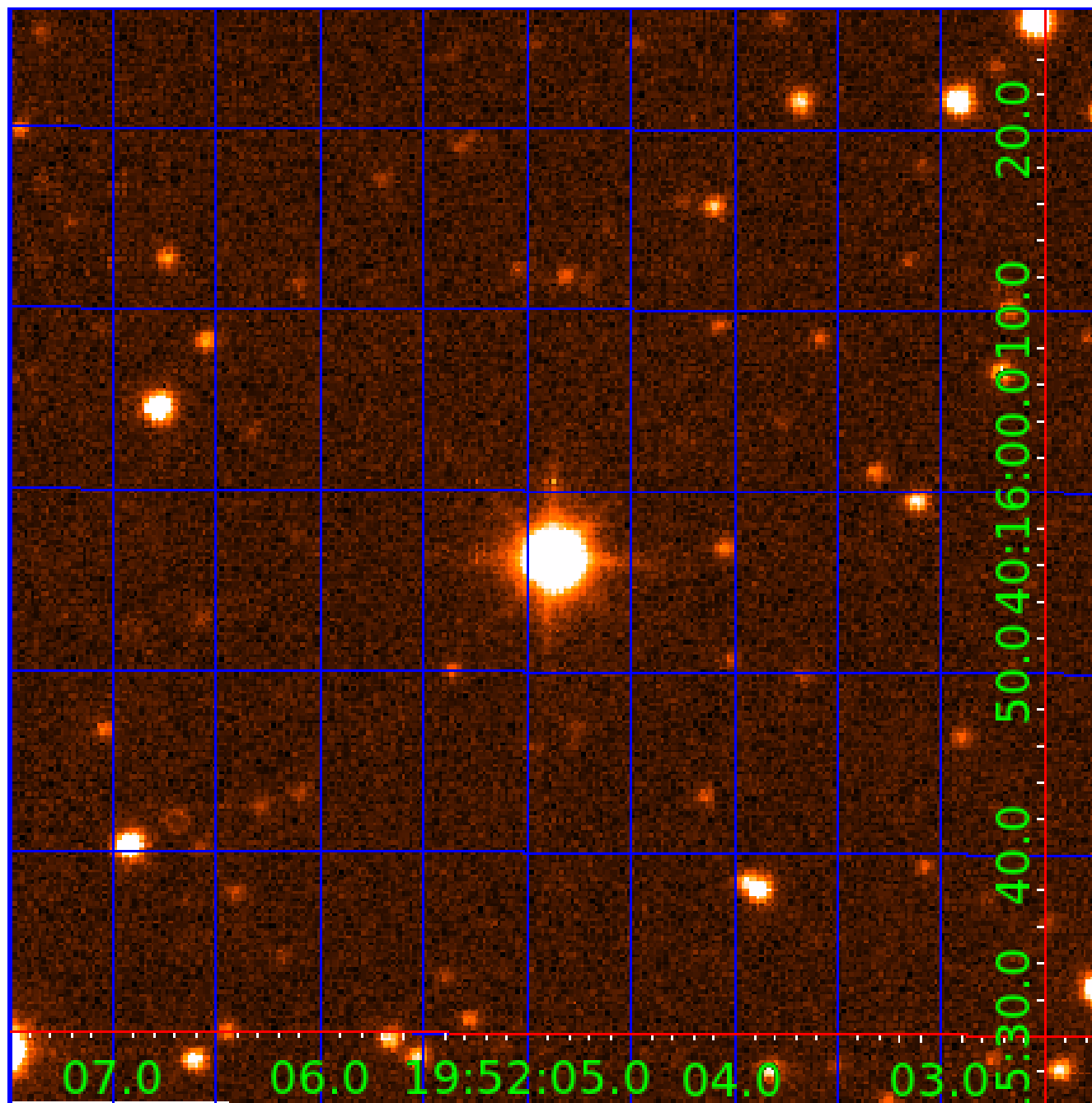


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005125048

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})
005125048-01	OBS	6528.01	0.568153	132.086126	127.9	3.507	14.5	9.1	1.40	6751	1.61	17668.94
005125048-02	OBS	No	48.355304	153.122262	4659.2	1.428	12.9	12.0	1.40	6751	10.79	47.20
005125048-03	OBS	No	0.989920	132.016641	0.2	1.972	12.2	0.0	1.40	6751	0.07	8427.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005125048-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005125048-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
005125048-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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 005125048-02

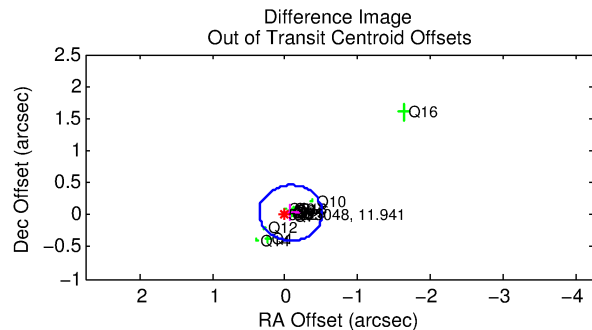
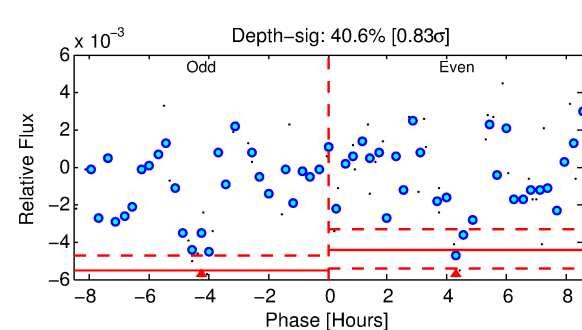
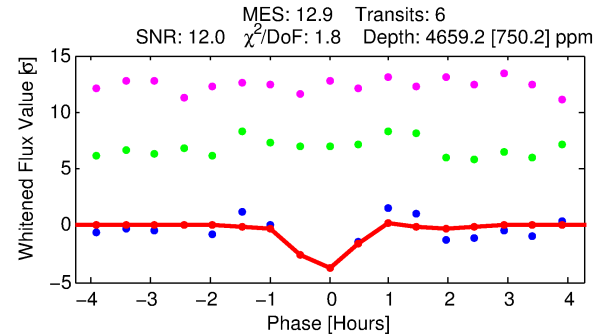
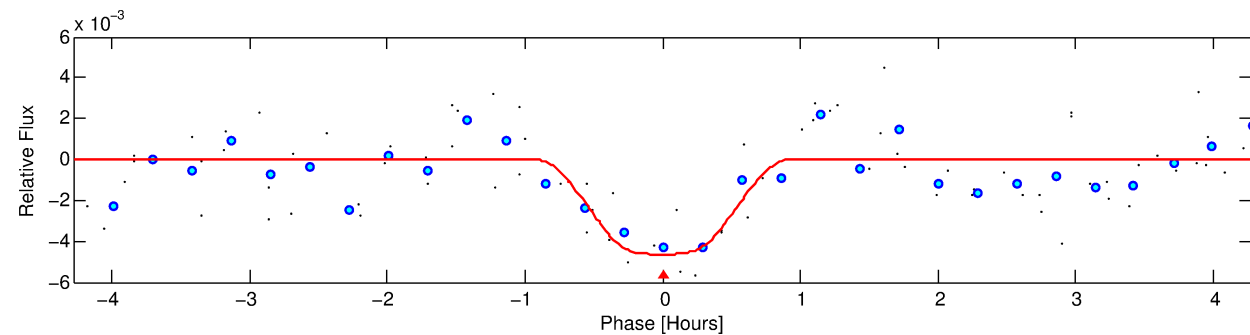
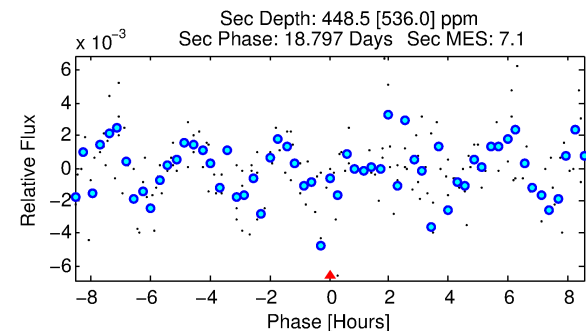
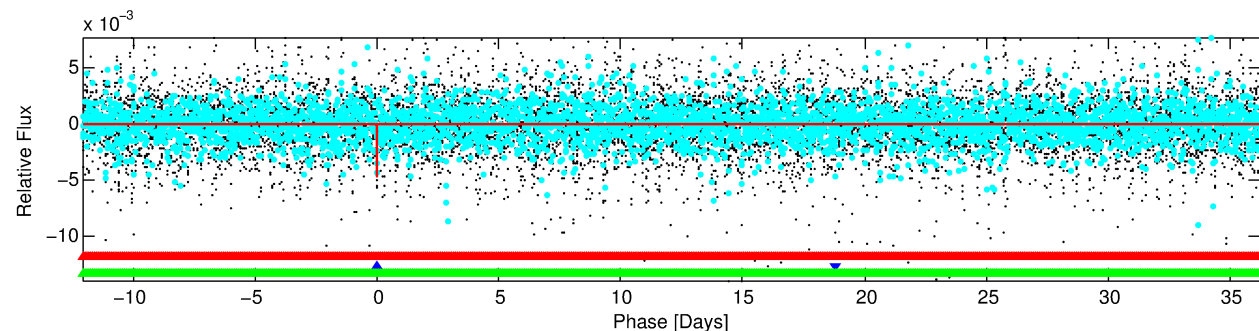
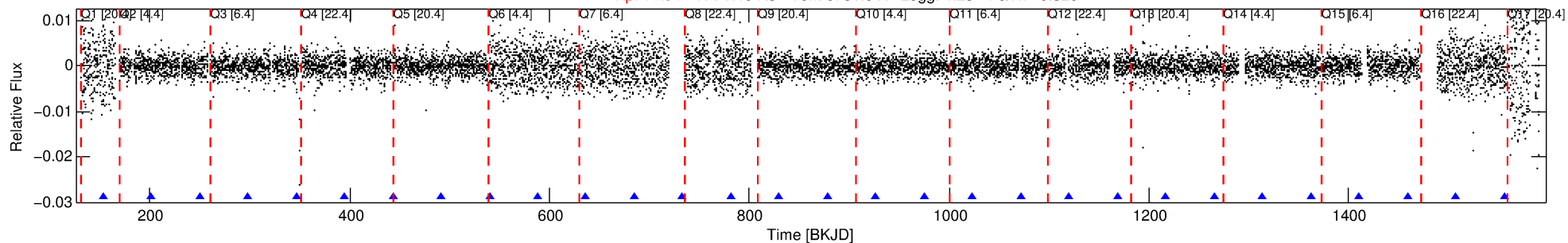
No Significant Match Found

DV One-Page Summary

KIC: 5125048 Candidate: 2 of 3 Period: 48.355 d

KOI: K06528 Corr: No Ephemeris Match

Kp: 11.94 R*: 1.40 Rs Teff: 6751.0 K Logg: 4.23 Fe/H: -0.320



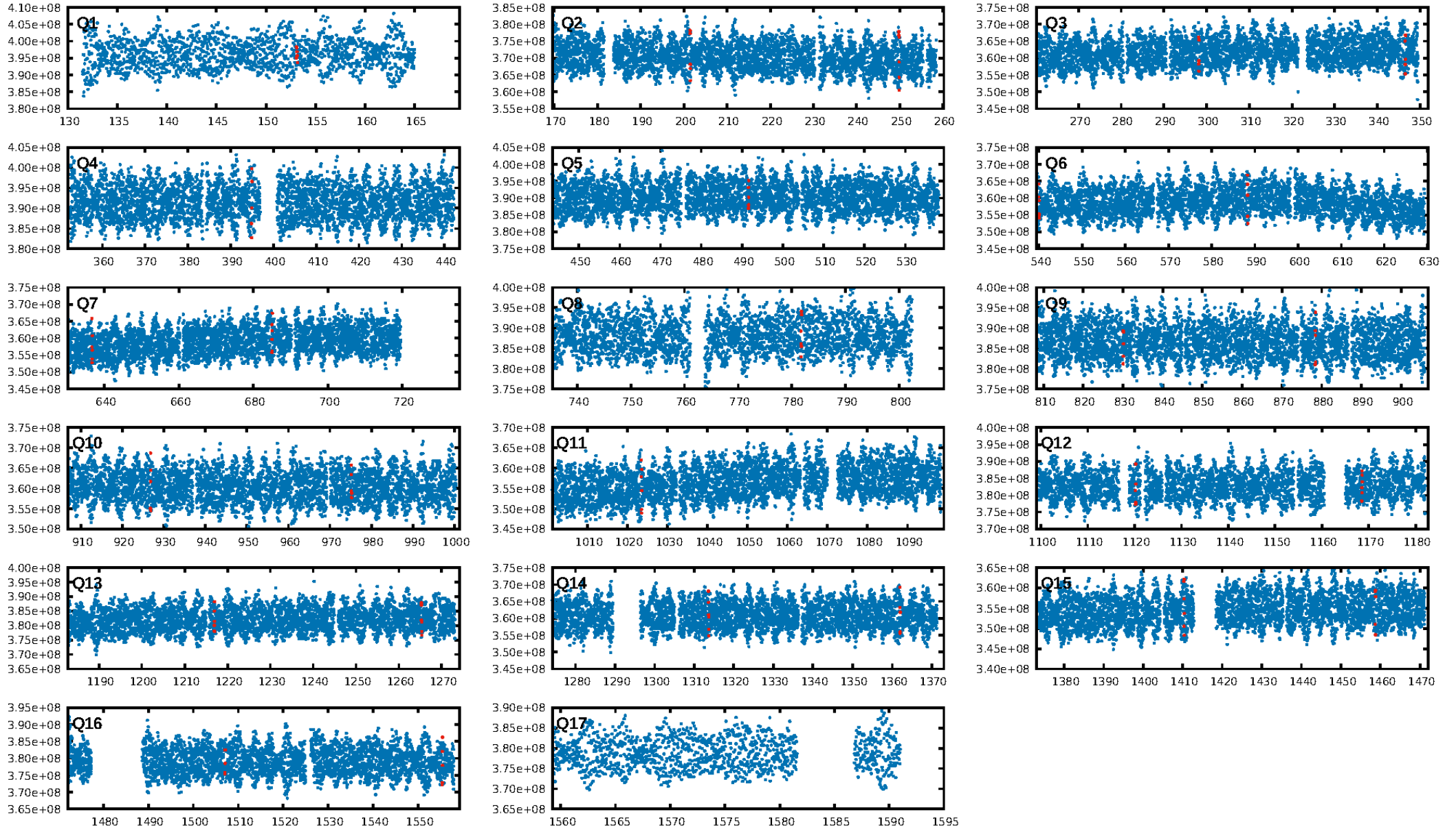
DV Fit Results:

Period = 48.35530 [0.00032] d
Epoch = 153.1223 [0.0054] BKJD
Rp/R* = 0.0708 [0.0291]
a/R* = 171.29 [358.35]
b = 0.84 [0.73]
Seff = 47.20 [17.74]
Teq = 668 [63] K
Rp = 10.79 [5.42] Re
a = 0.2774 [0.0672] AU
Ag = 163.15 [243.51] [0.67σ]
Teffp = 3693 [1345] K [2.25σ]

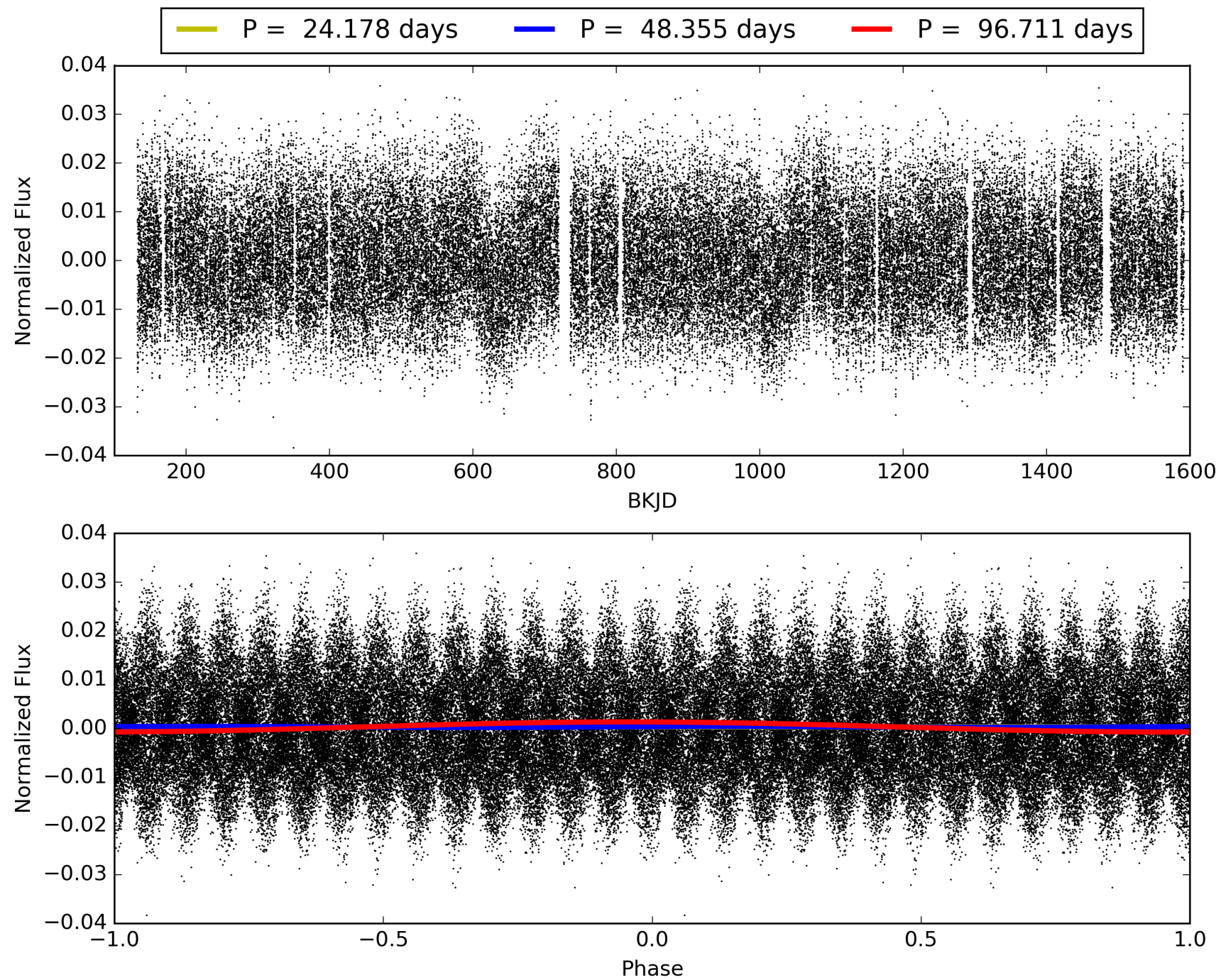
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [466.98σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 4.5%
ModelChiSquareGof-sig: 77.7%
Bootstrap-pfa: 1.65e-14
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 0.1008
Centroid-sig: 91.9%
Centroid-so: 0.092 arcsec [2.65σ]
OotOffset-rm: 0.081 arcsec [0.56σ]
KicOffset-rm: 0.149 arcsec [1.51σ]
OotOffset-st: 4/4/4/3 [15]
KicOffset-st: 4/4/4/3 [15]
DiffImageQuality-fgm: 0.67 [10/15]
DiffImageOverlap-fno: 0.00 [0/16]

TCE 005125048-02, PDC Light Curves

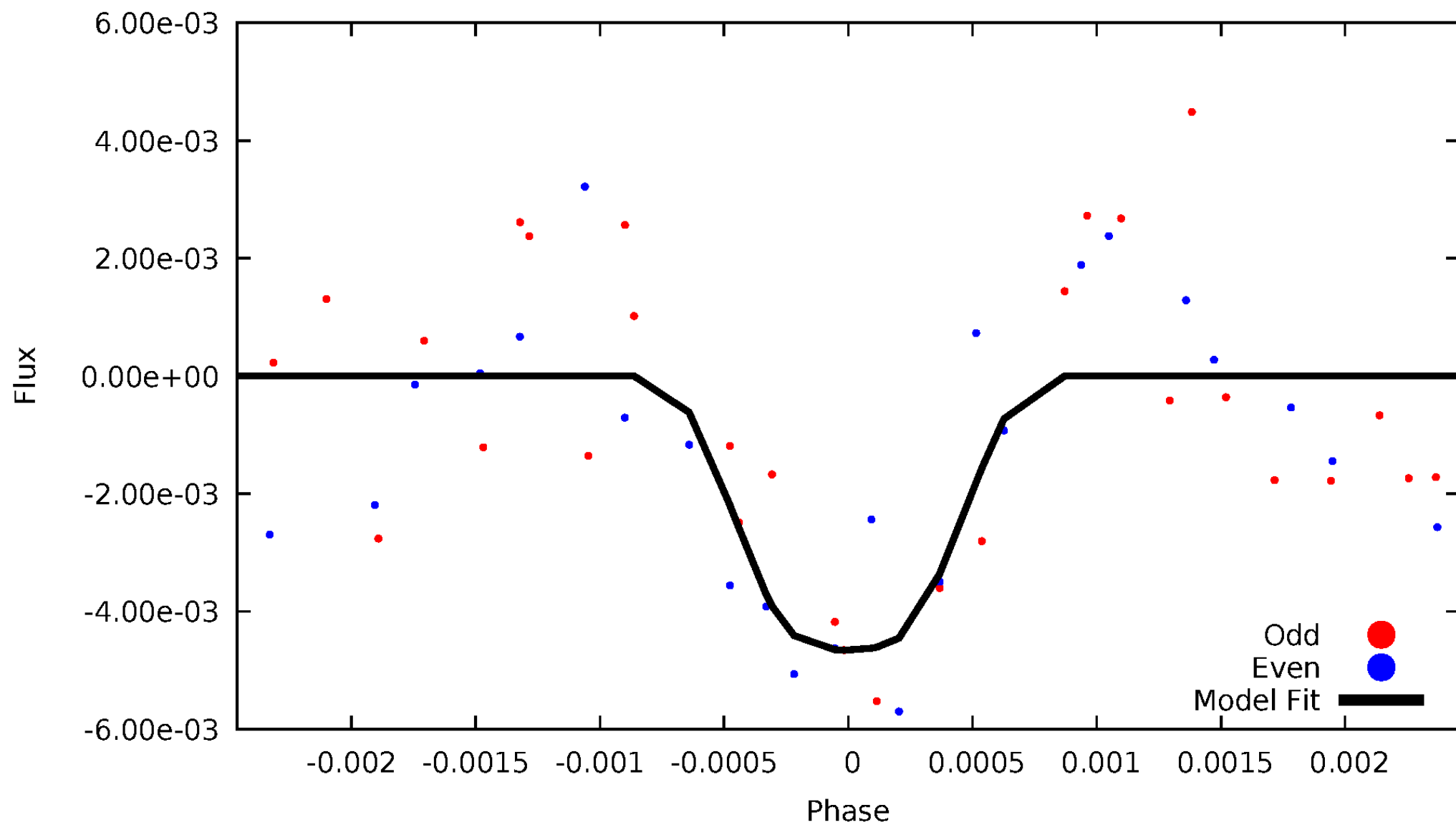


TCE 005125048-02



DV Odd/Even

TCE 005125048-02

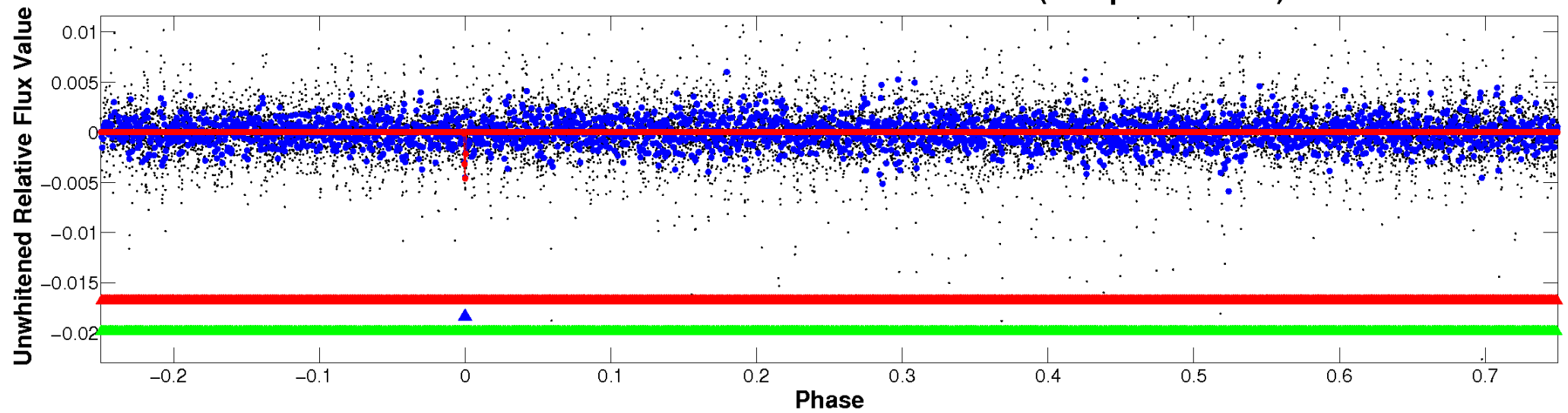


ALT Odd/Even

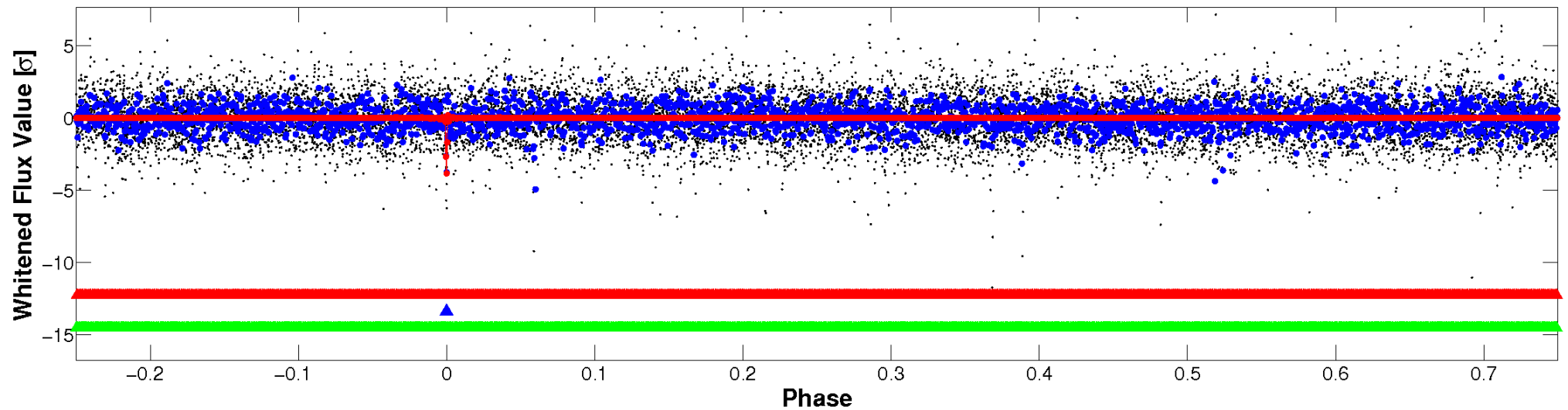
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

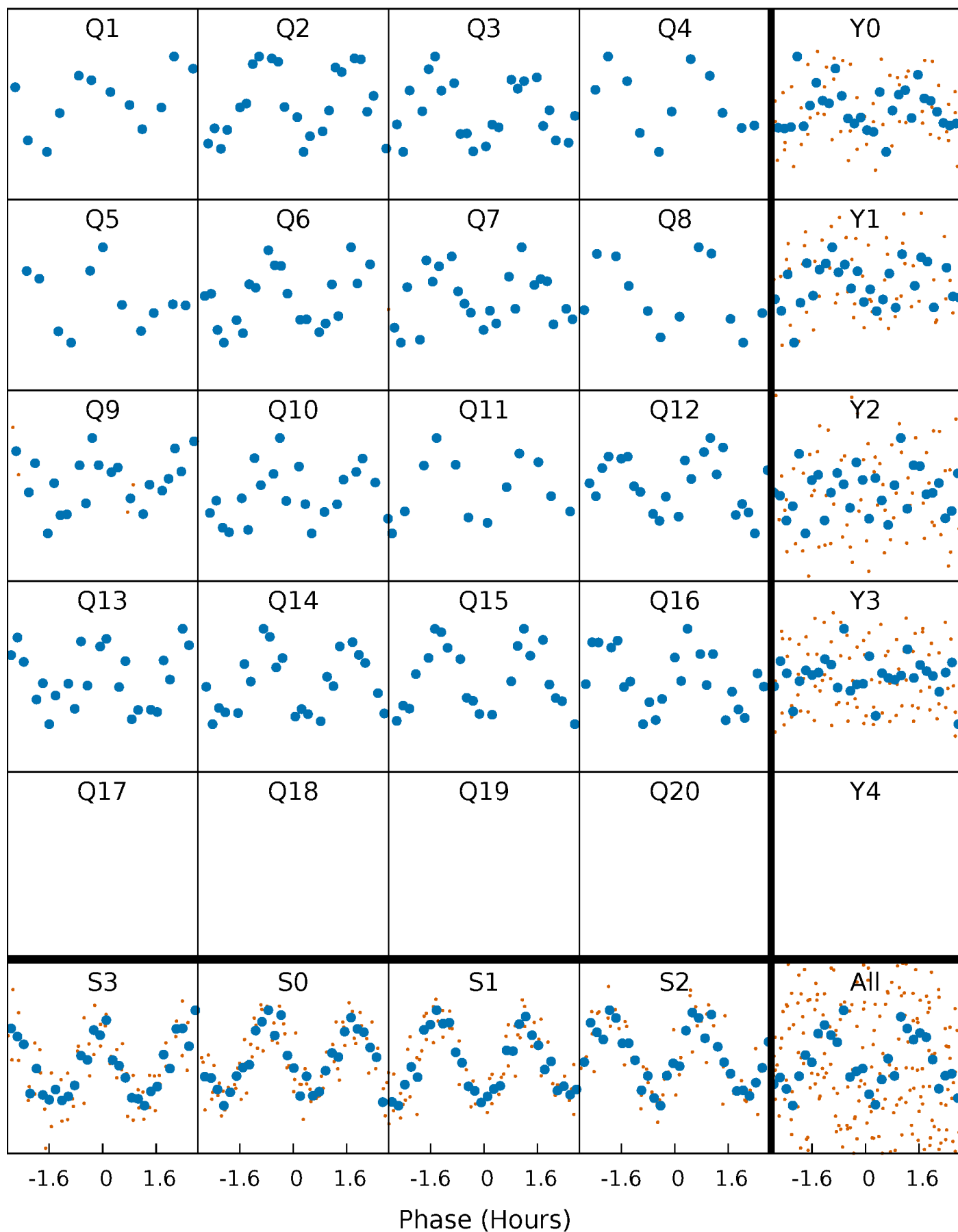


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



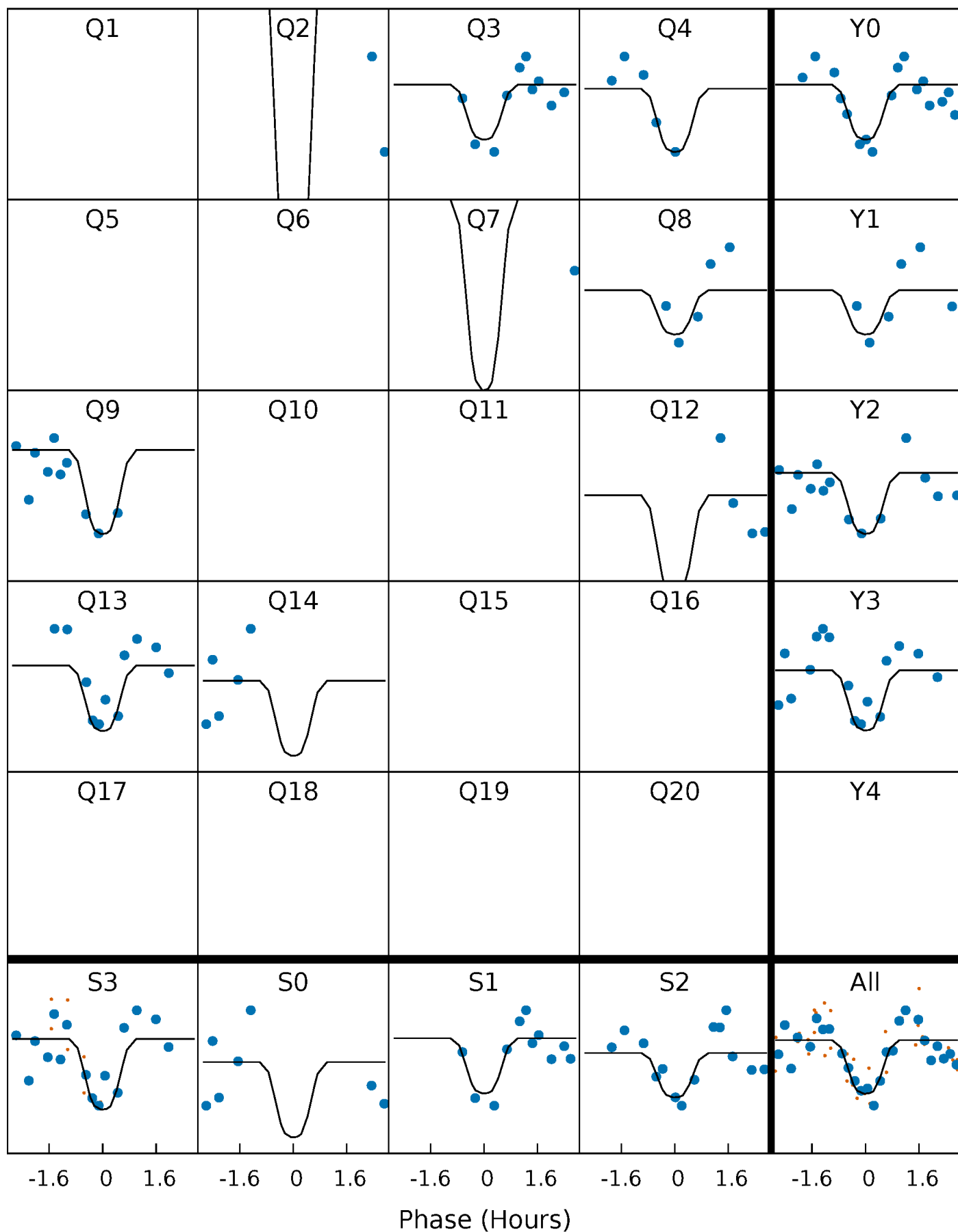
PDC Quarter-Phased Transit Curves

TCE 005125048-02 P= 48.355304 Days $T_0=153.122262$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005125048-02 P= 48.355304 Days $T_0=153.122262$ (BKJD)

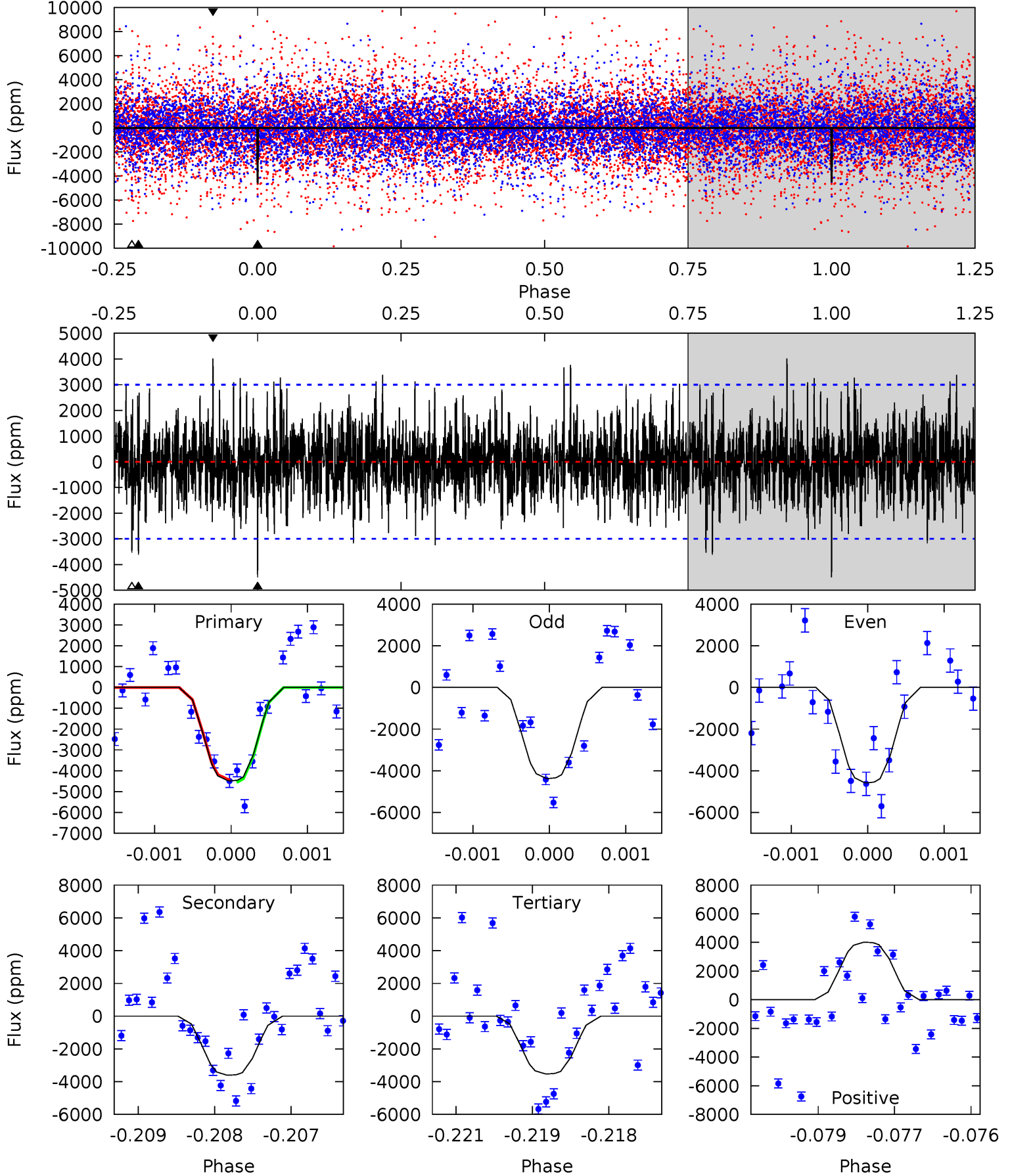


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005125048-02, P = 48.355304 Days, E = 104.766958 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.10	6.51	6.37	7.25	5.41	3.22	1.85	1.73	0.85	0.14	-0.73	0.19	1.00	0.47	0.11



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005125048

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6751^{+162}_{-223}	$4.233^{+0.128}_{-0.192}$	$-0.320^{+0.250}_{-0.300}$	$1.397^{+0.403}_{-0.268}$	$1.224^{+0.170}_{-0.170}$	$0.633^{+0.444}_{-0.303}$
	+2%/-3%	+3%/-5%	+78%/-94%	+29%/-19%	+14%/-14%	+70%/-48%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005125048-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3608 ± 554	$10.93^{+4.65}_{-4.88}$	939^{+72}_{-58}	6223^{+2451}_{-964}	1279^{+2948}_{-670}
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 $A_{\text{obs}} \gg 1.0$

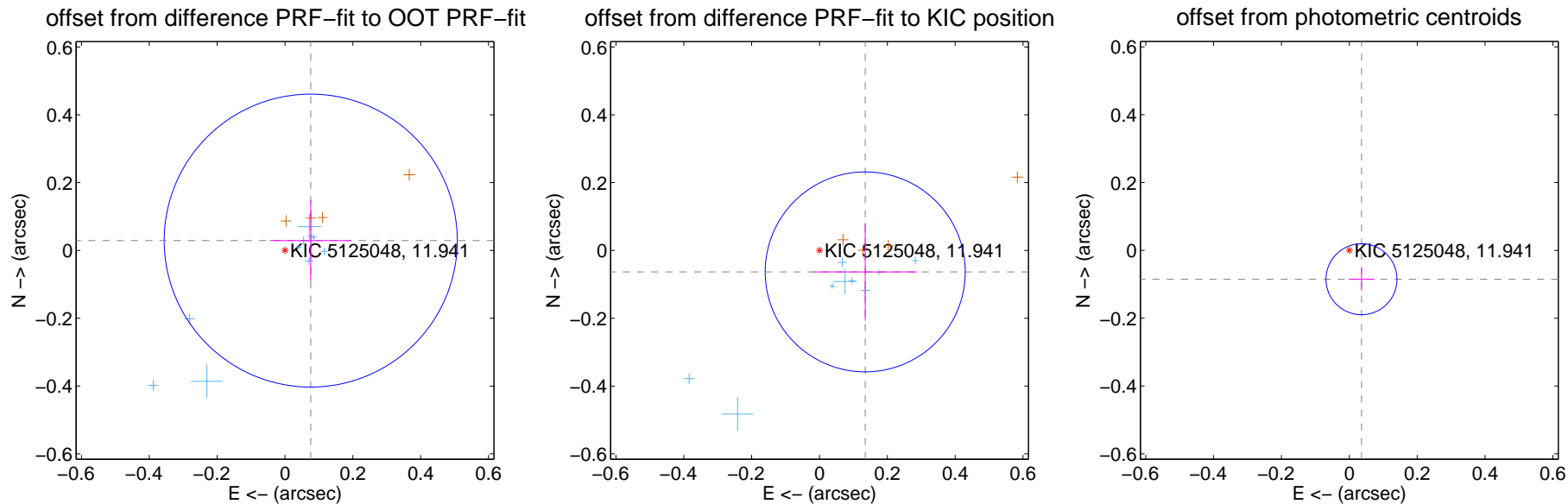
DV Centroid Data

Supplemental centroid analysis for 005125048-02. **Kepler magnitude: 11.94.** Transit SNR 12.05

There are 10 quarters with good PRF difference image offsets

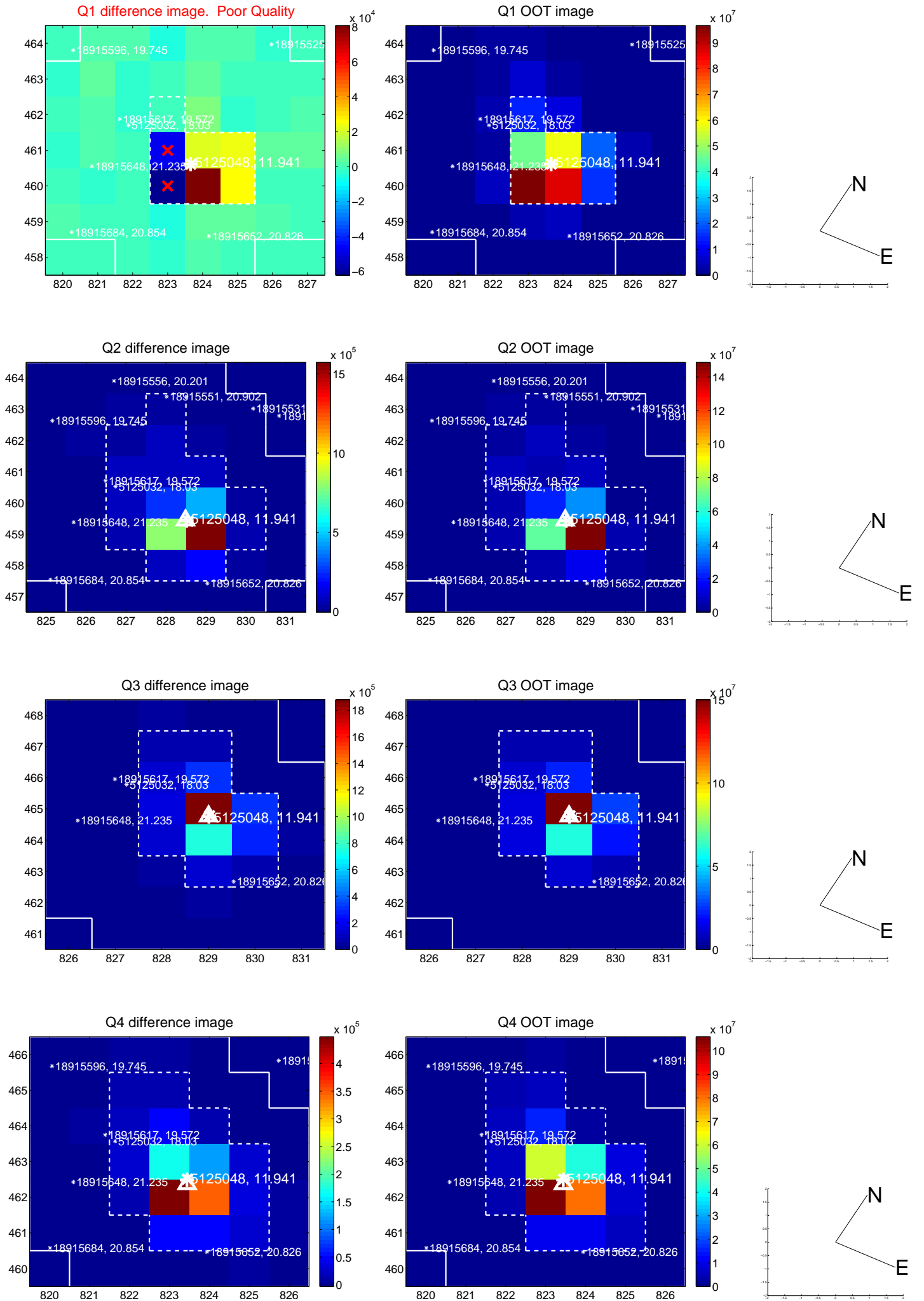
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.081 ± 0.144	0.56	-0.076 ± 0.119	0.029 ± 0.120
PRF-fit source offset from KIC position	0.149 ± 0.098	1.51	-0.135 ± 0.153	-0.063 ± 0.144
photometric centroid source offset	0.09 ± 0.03	2.65	-0.04 ± 0.04	-0.09 ± 0.03

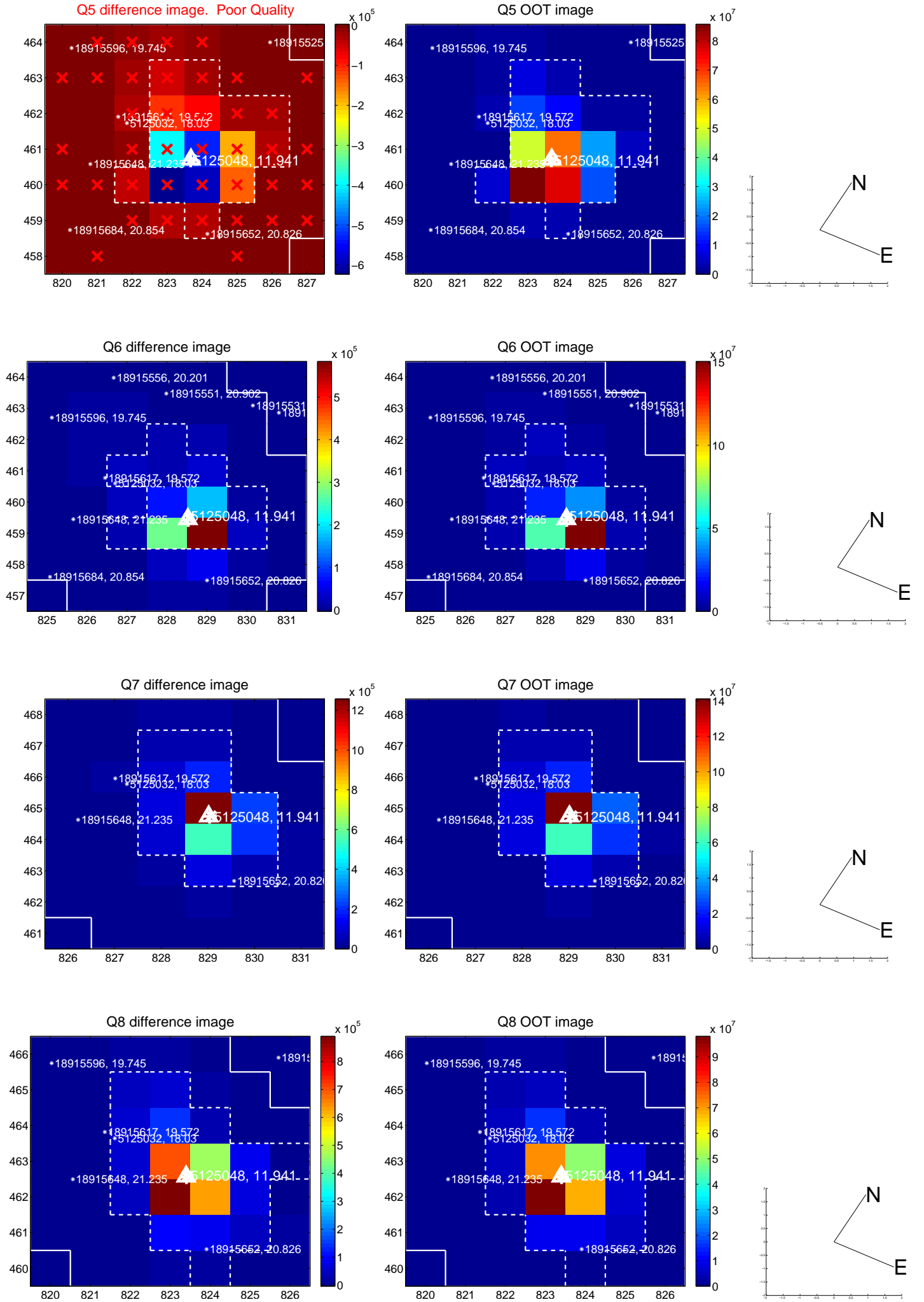


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

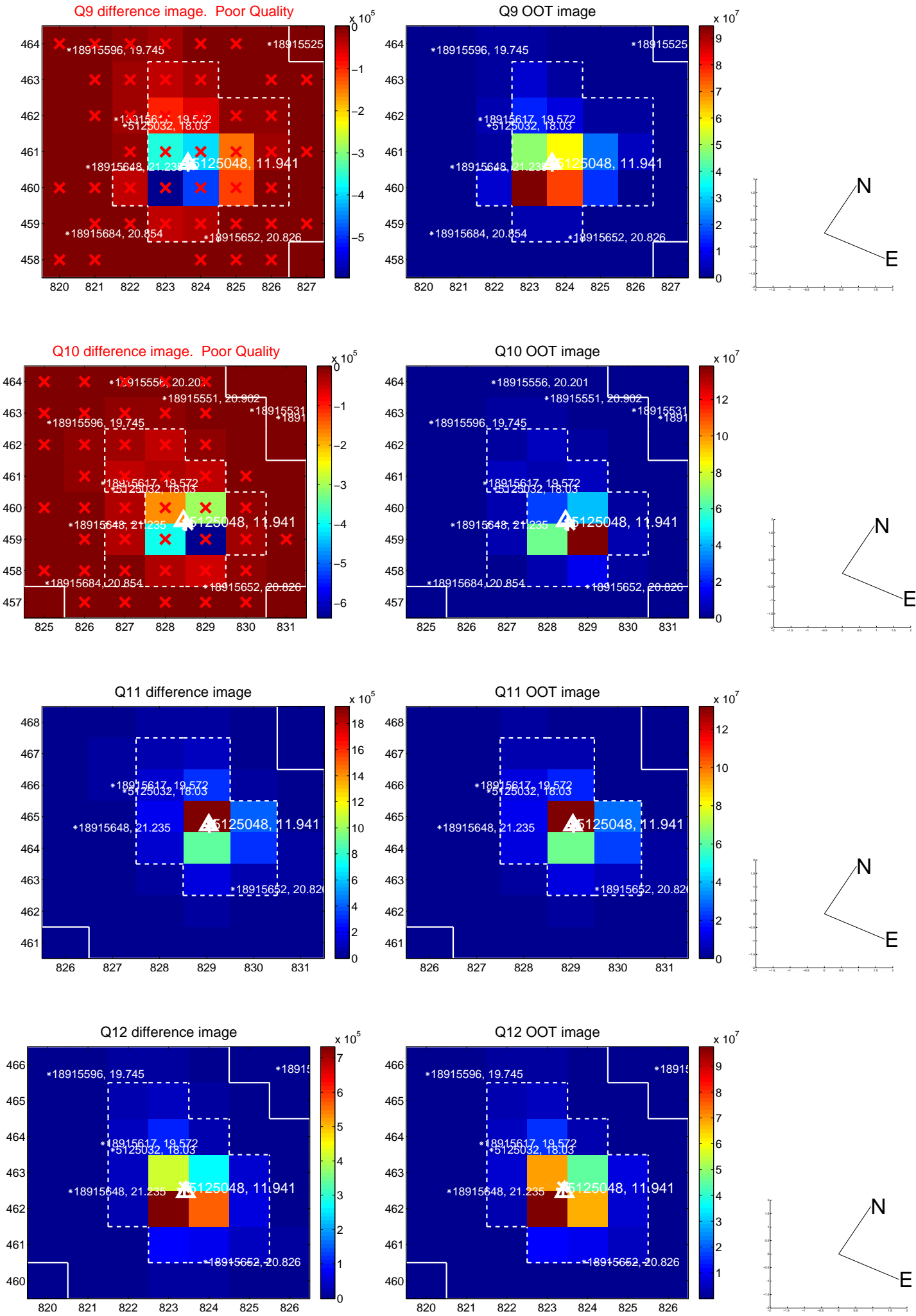
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



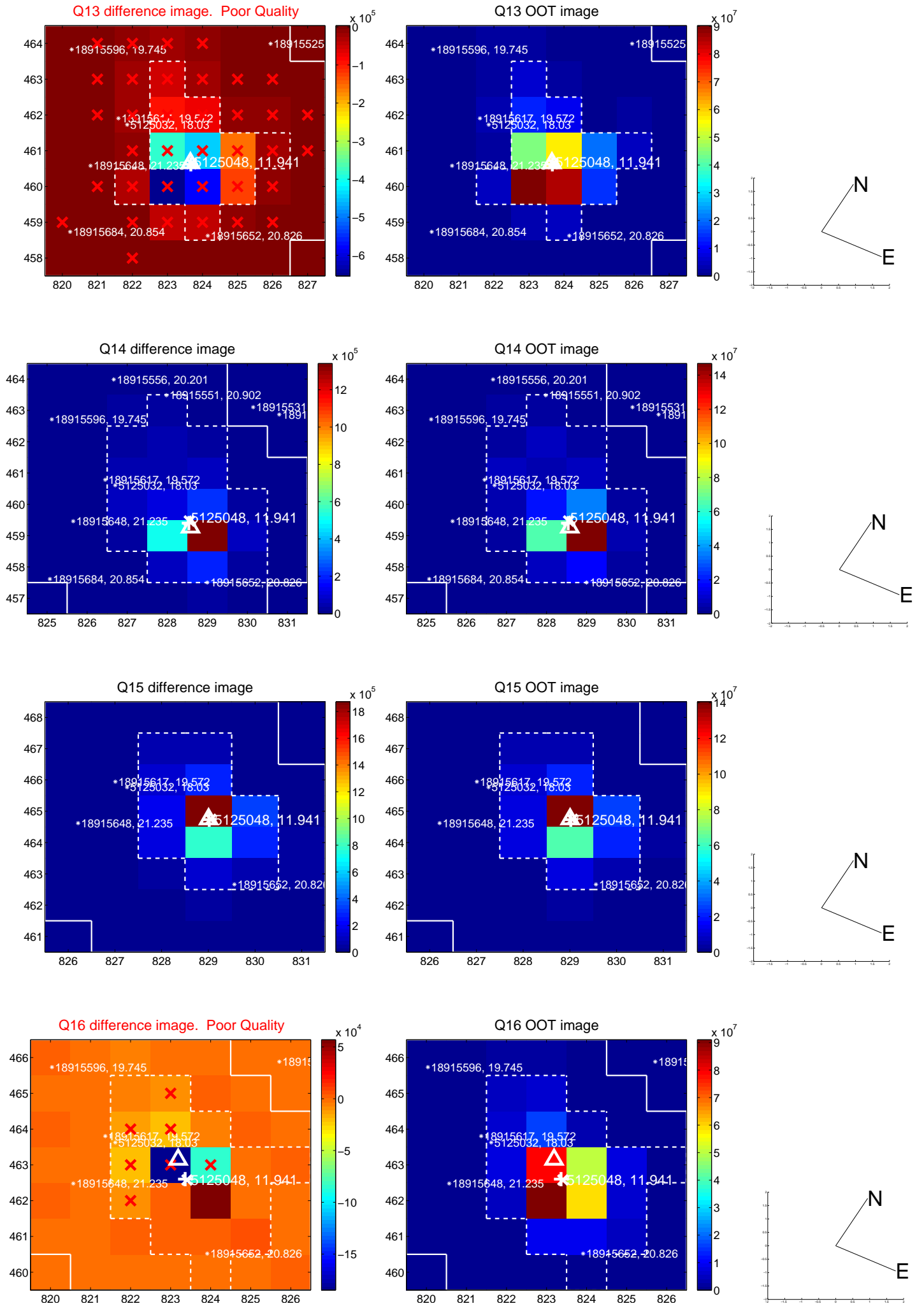
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



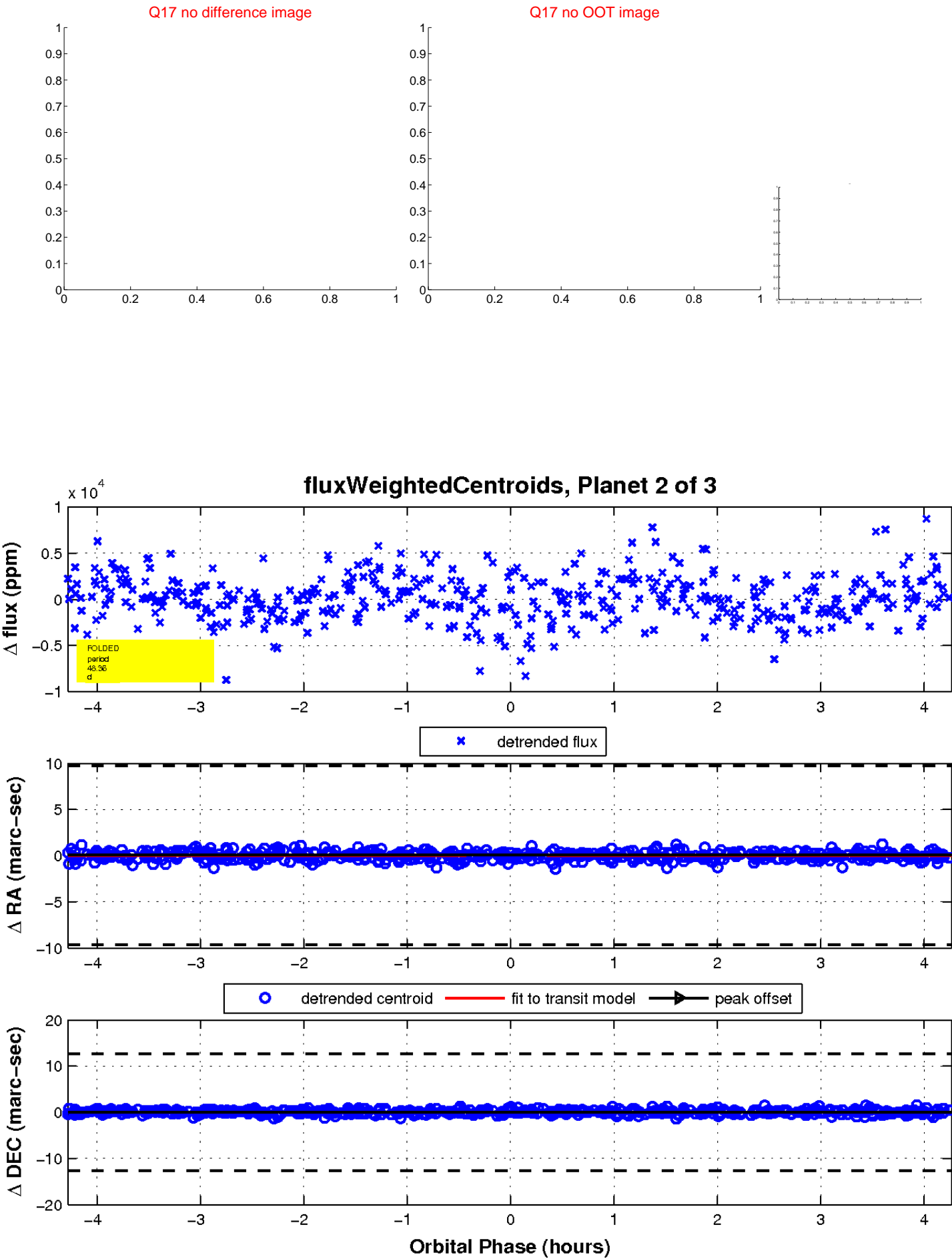
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

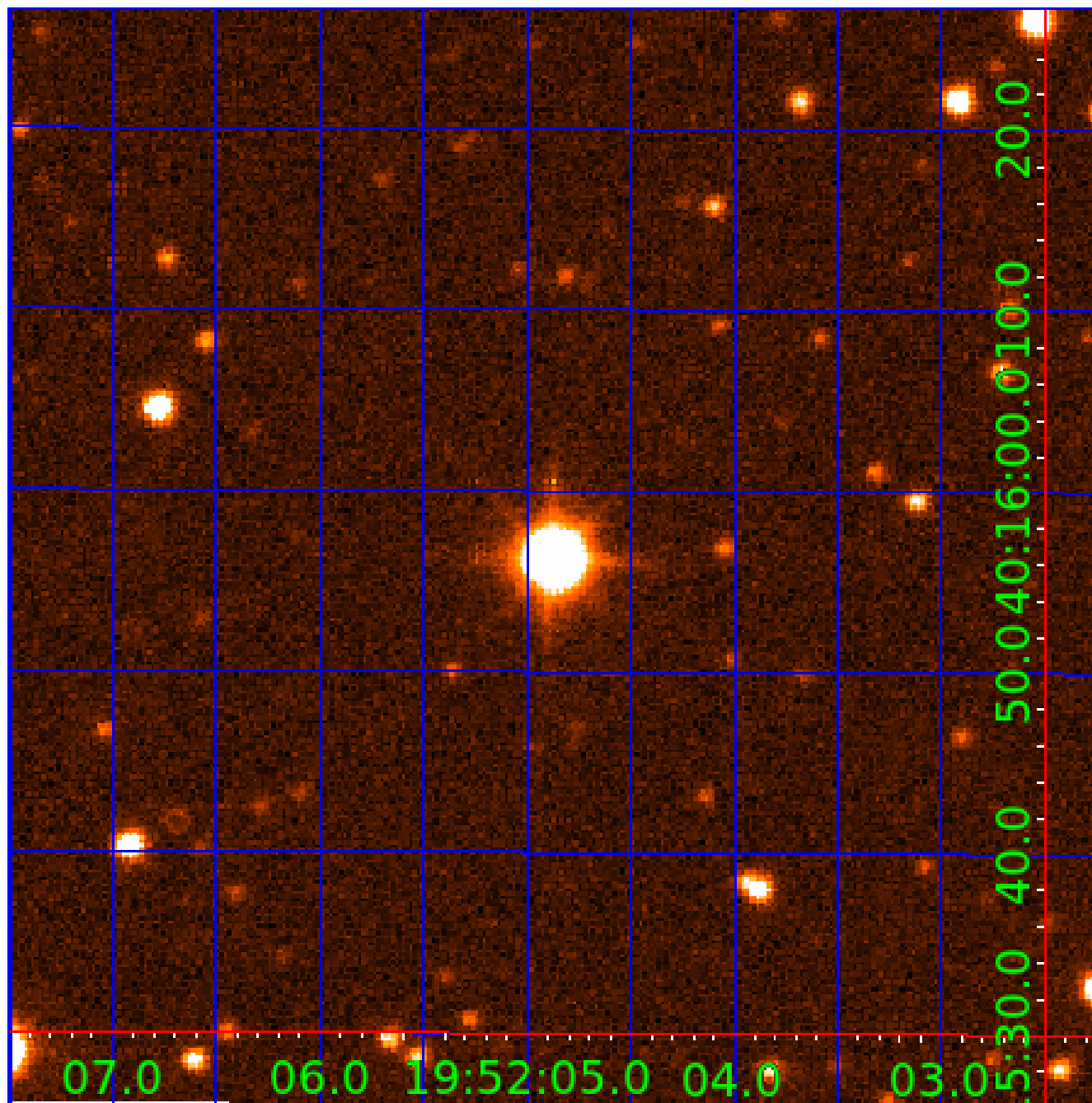


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005125048

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})
005125048-01	OBS	6528.01	0.568153	132.086126	127.9	3.507	14.5	9.1	1.40	6751	1.61	17668.94
005125048-02	OBS	No	48.355304	153.122262	4659.2	1.428	12.9	12.0	1.40	6751	10.79	47.20
005125048-03	OBS	No	0.989920	132.016641	0.2	1.972	12.2	0.0	1.40	6751	0.07	8427.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005125048-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005125048-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
005125048-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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 005125048-03

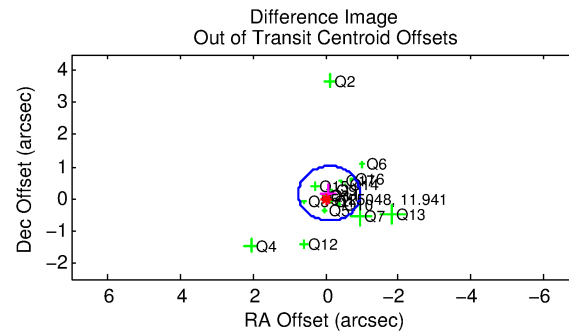
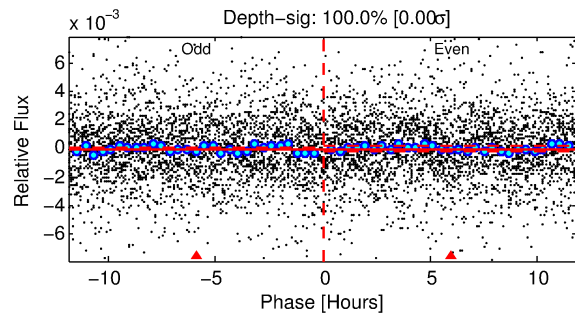
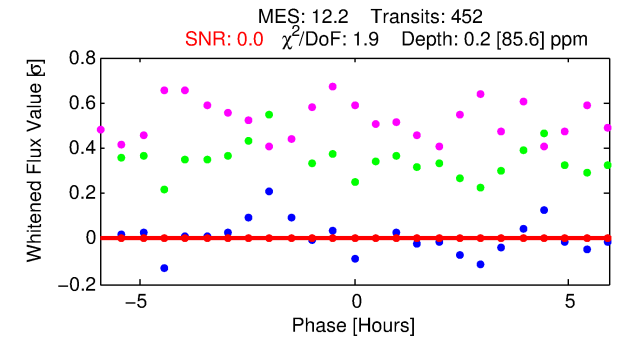
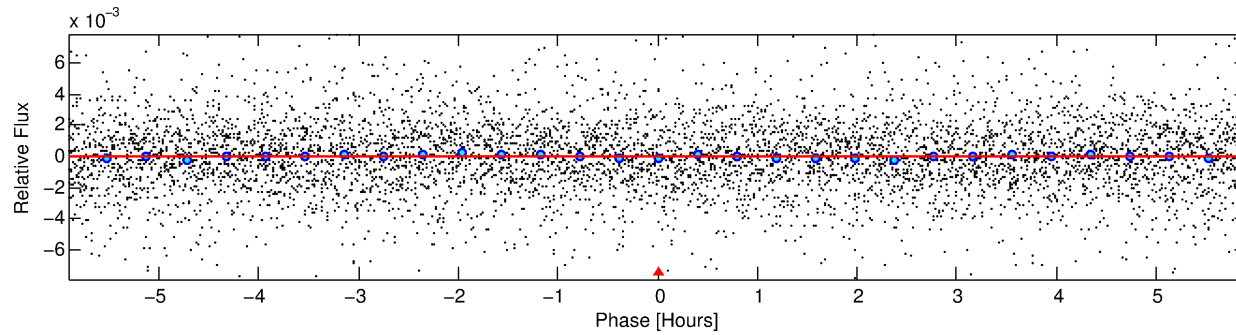
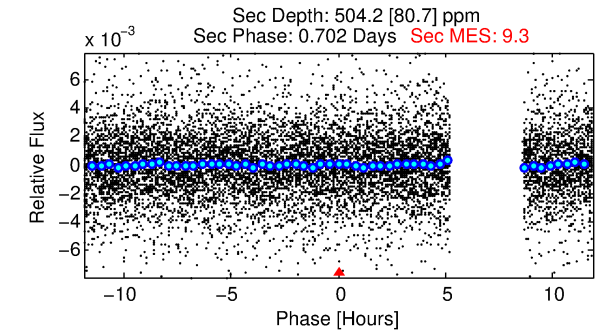
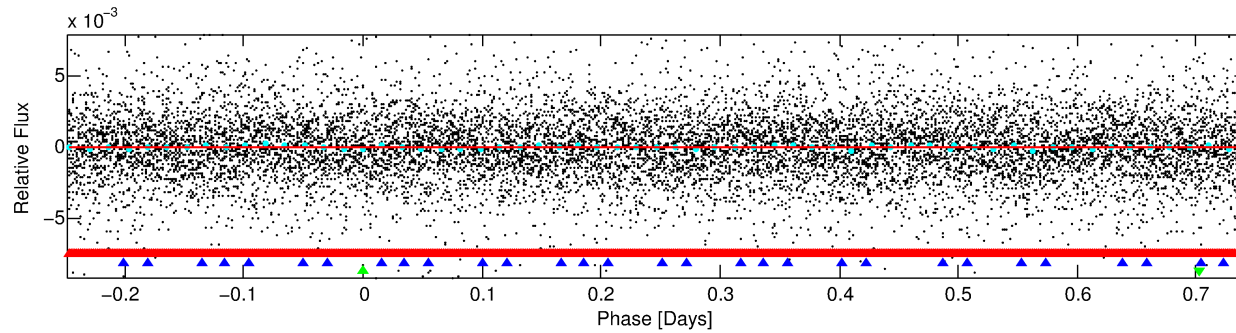
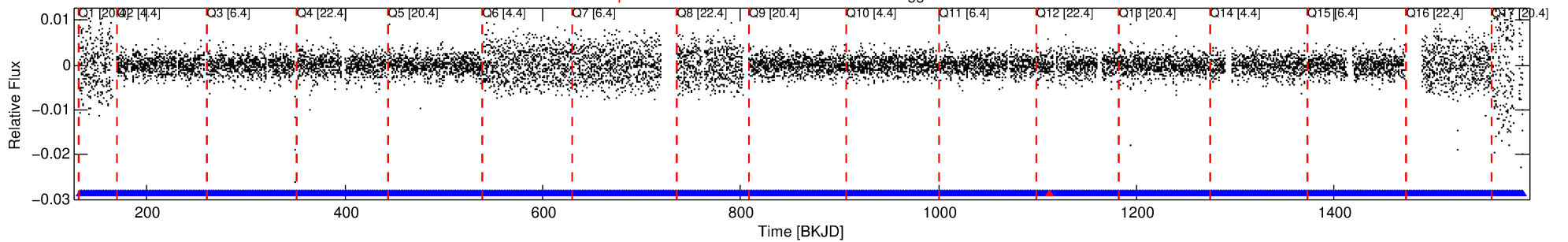
No Significant Match Found

DV One-Page Summary

KIC: 5125048 Candidate: 3 of 3 Period: 0.990 d

KOI: K06528 Corr: No Ephemeris Match

Kp: 11.94 R*: 1.40 Rs Teff: 6751.0 K Logg: 4.23 Fe/H: -0.320



DV Fit Results:

Period = 0.98992 [0.03950] d
Epoch = 132.0166 [10.5995] BKJD
Rp/R* = 0.0005 [0.1129]
a/R* = 1.84 [396.03]
b = 0.91 [58.96]
Seff = 8427.47 [3199.56]
Teq = 2443 [232] K
Rp = 0.07 [17.21] Re
a = 0.0208 [0.0051] AU
Ag = 24618.72 [12157516.46] [0.00σ]
Teffp = 47316 [5841902] K [0.01σ]

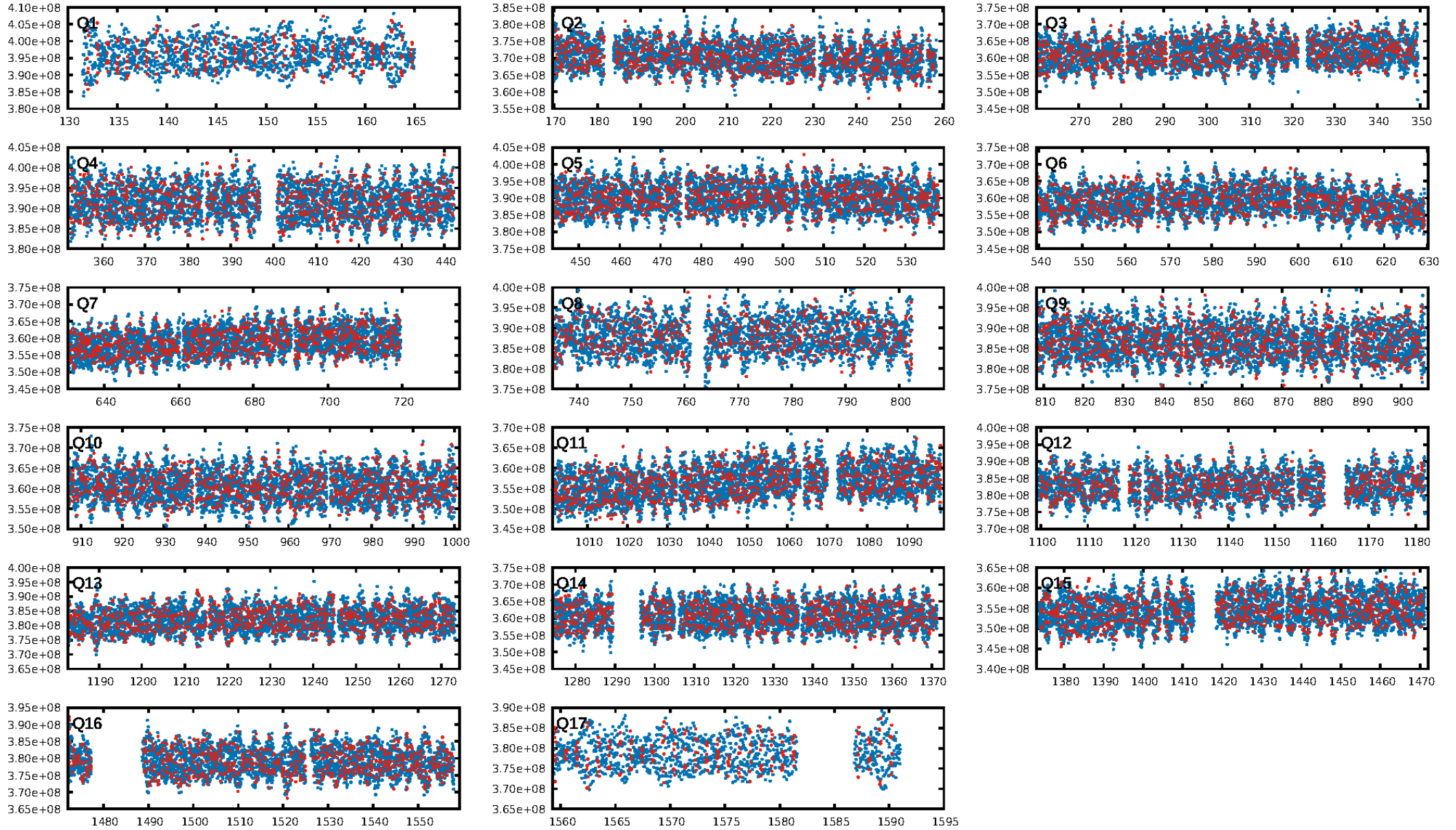
DV Diagnostic Results:

ShortPeriod-sig: 98.8% [2.52σ]
LongPeriod-sig: 100.0% [466.98σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.41e-13
RollingBand-fgt: 1.00 [430/431]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.191 arcsec [0.67σ]
KicOffset-rm: 0.159 arcsec [0.61σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.29 [5/17]
DiffImageOverlap-fno: 0.00 [0/17]

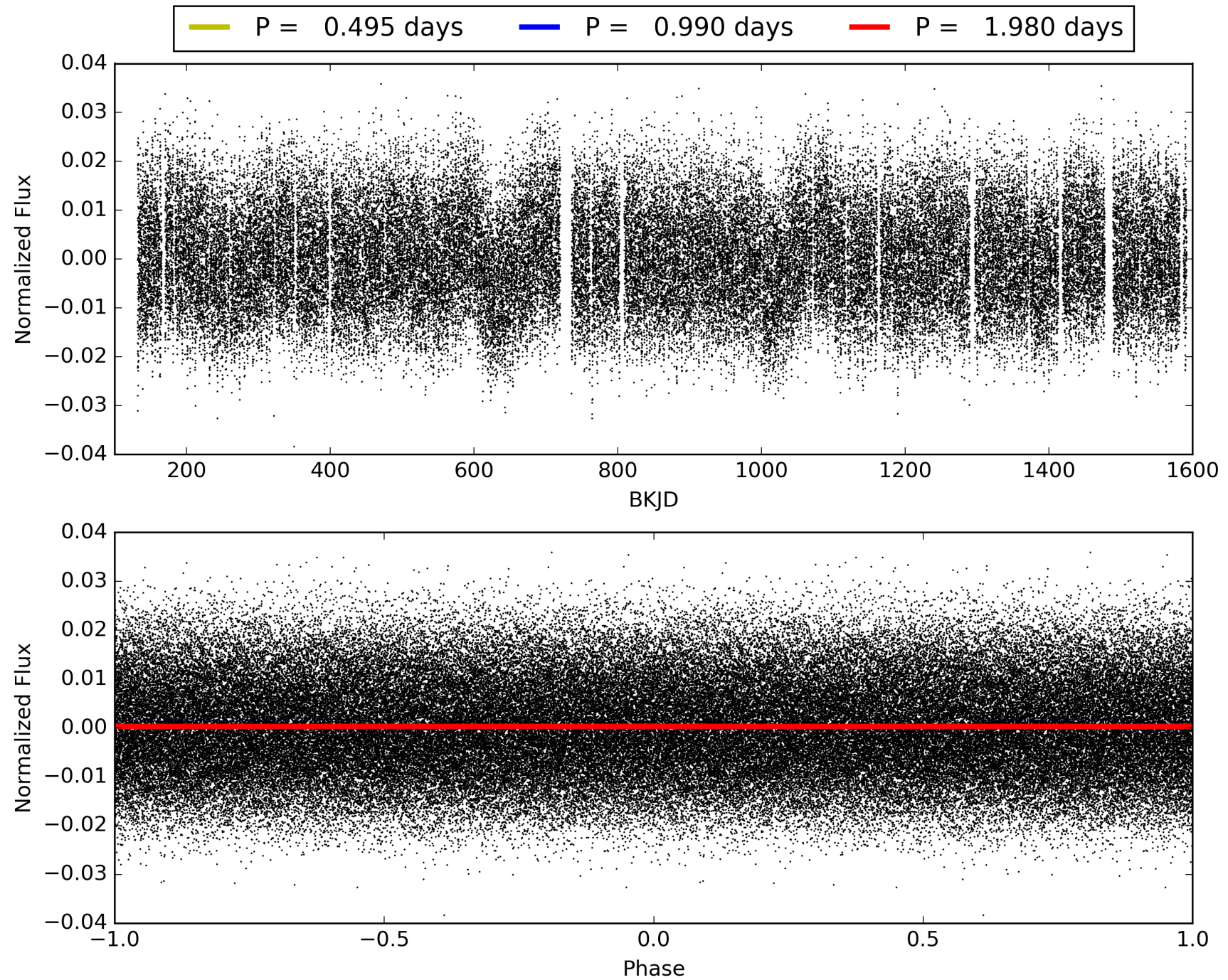
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:06:37 Z

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

TCE 005125048-03, PDC Light Curves

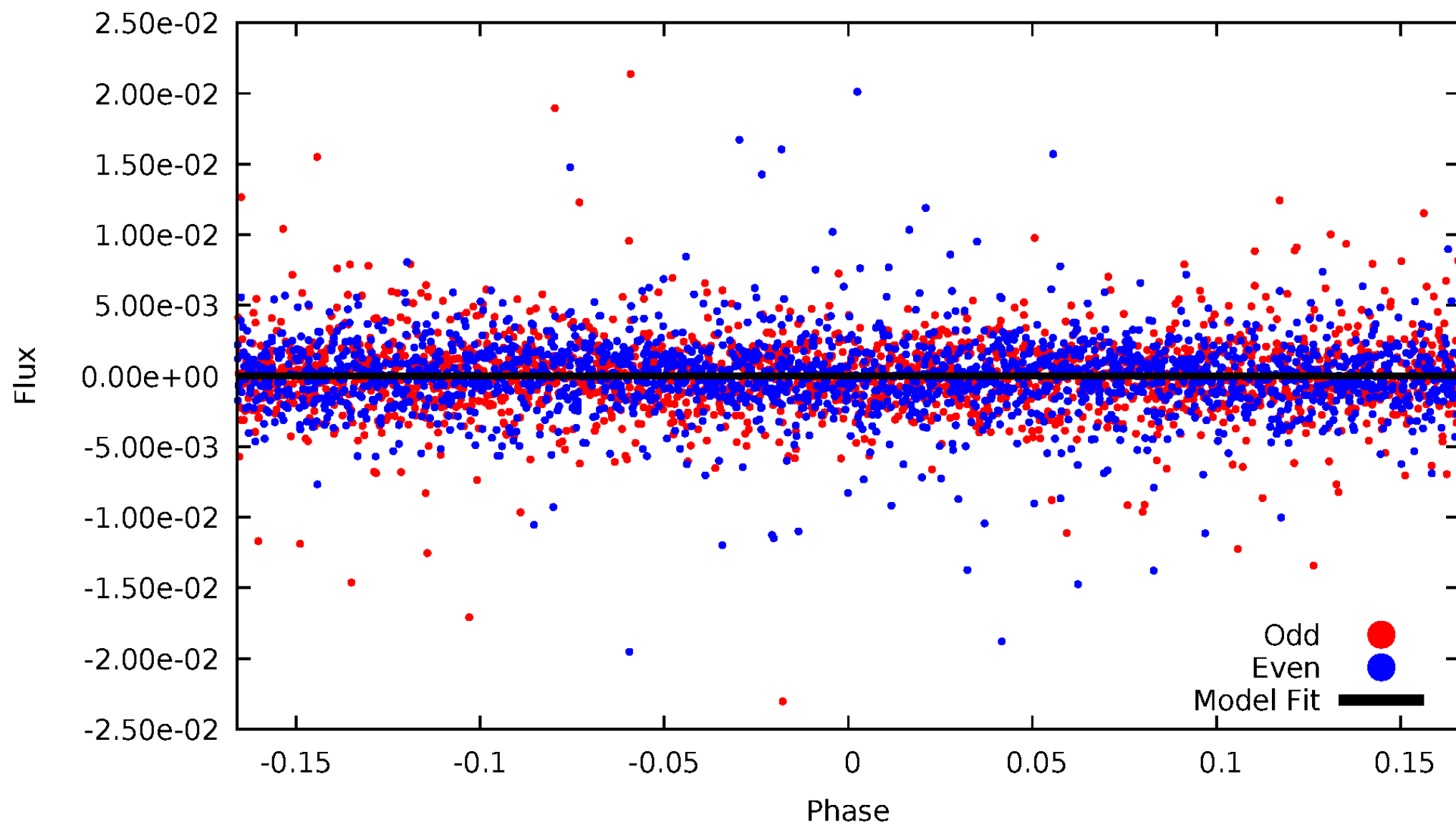


TCE 005125048-03



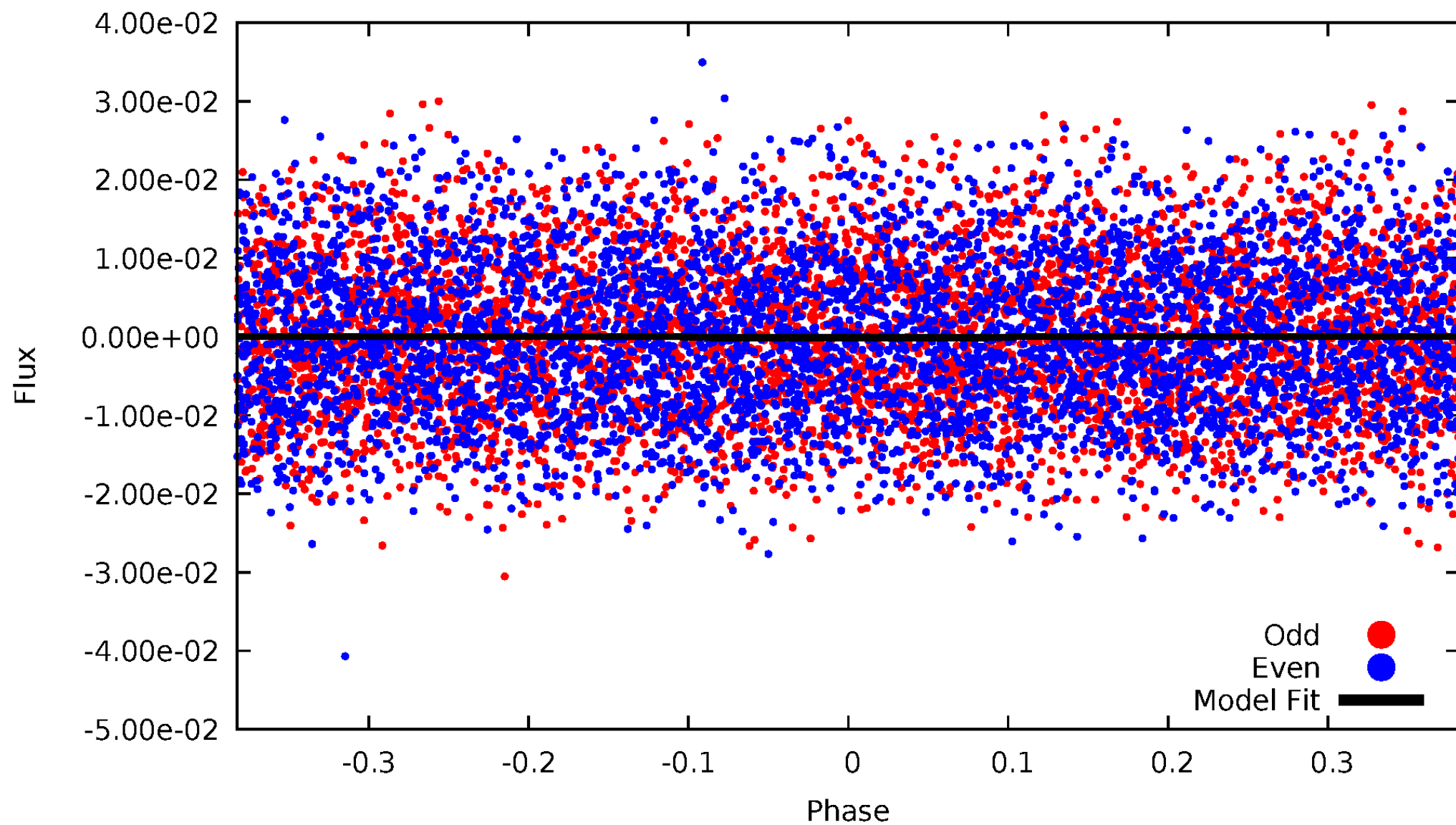
DV Odd/Even

TCE 005125048-03



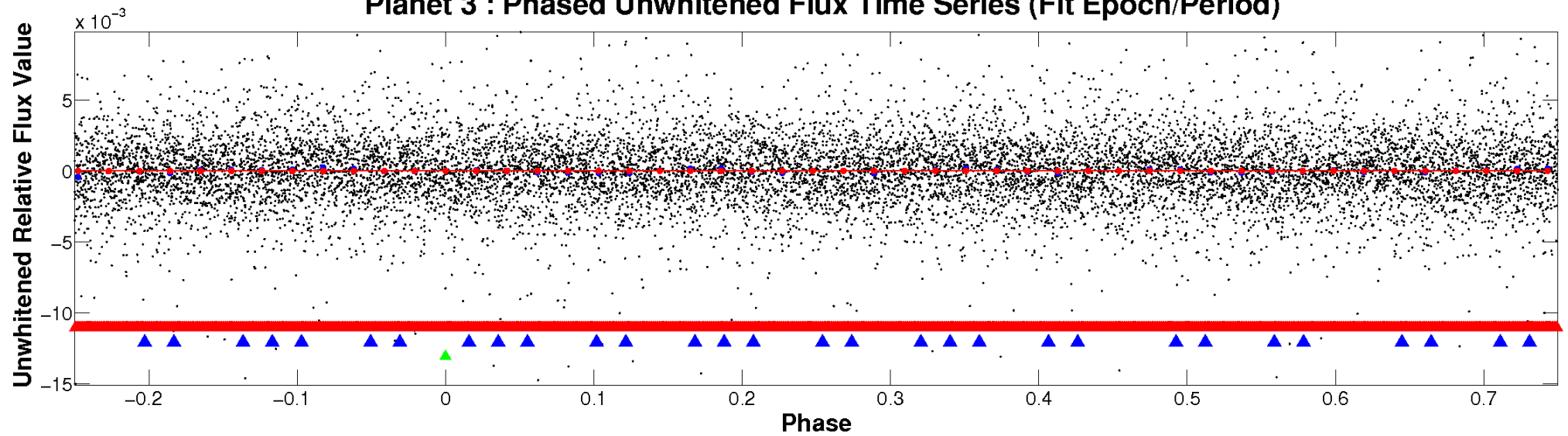
ALT Odd/Even

TCE 005125048-03

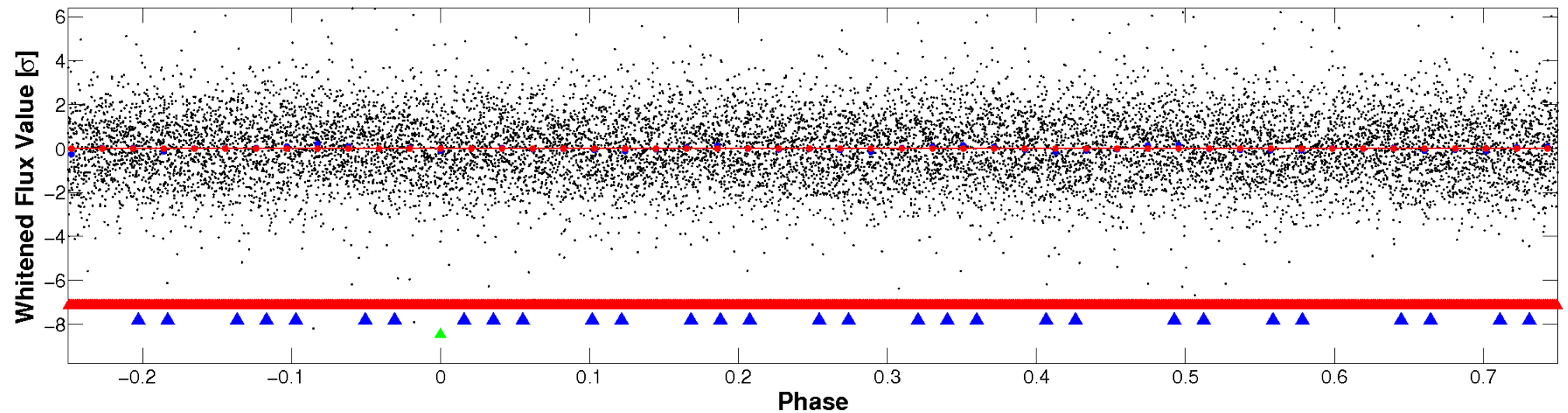


Non-Whitened Vs. Whitened Light Curve

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

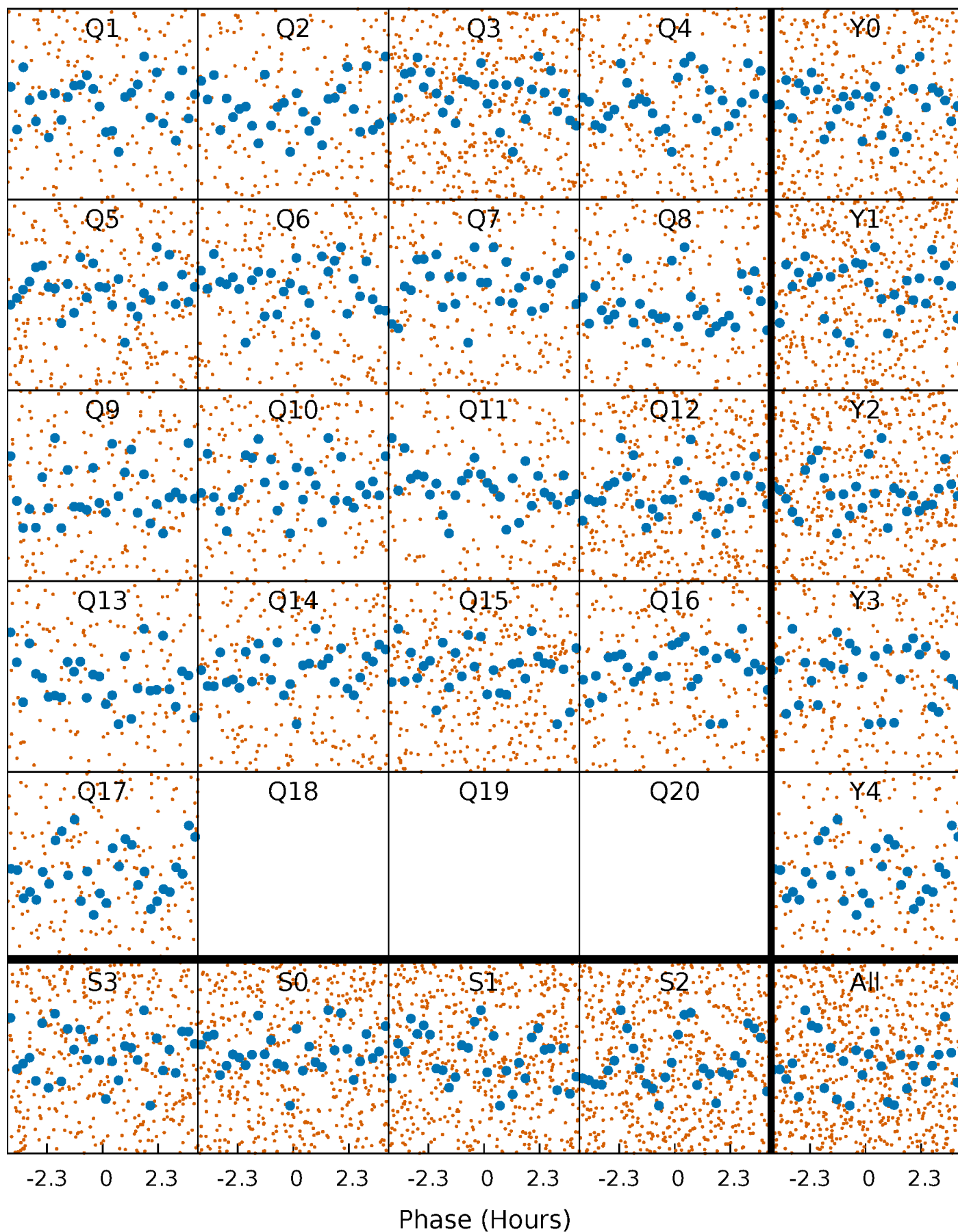


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



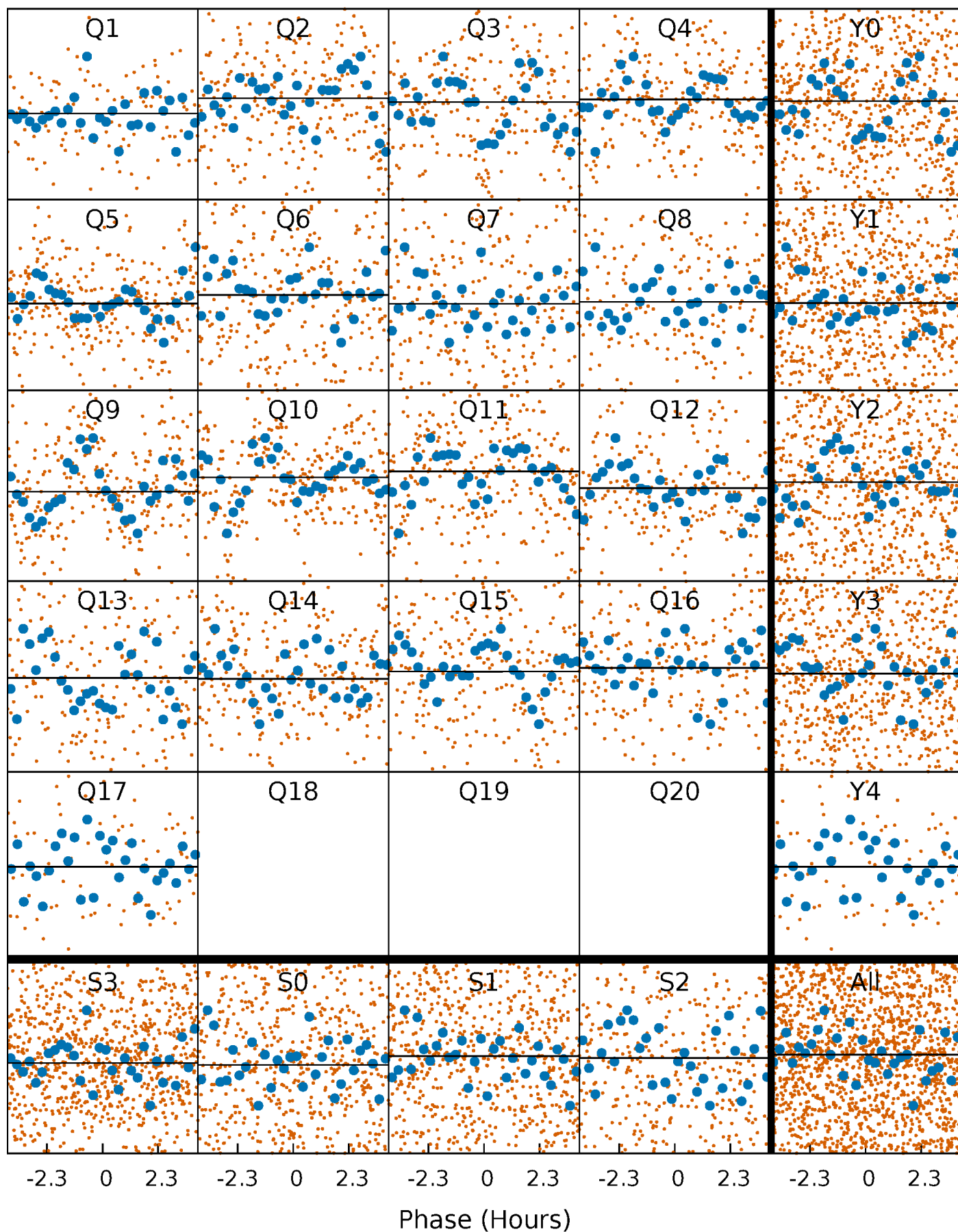
PDC Quarter-Phased Transit Curves

TCE 005125048-03 P= 0.989920 Days $T_0=132.016641$ (BKJD)



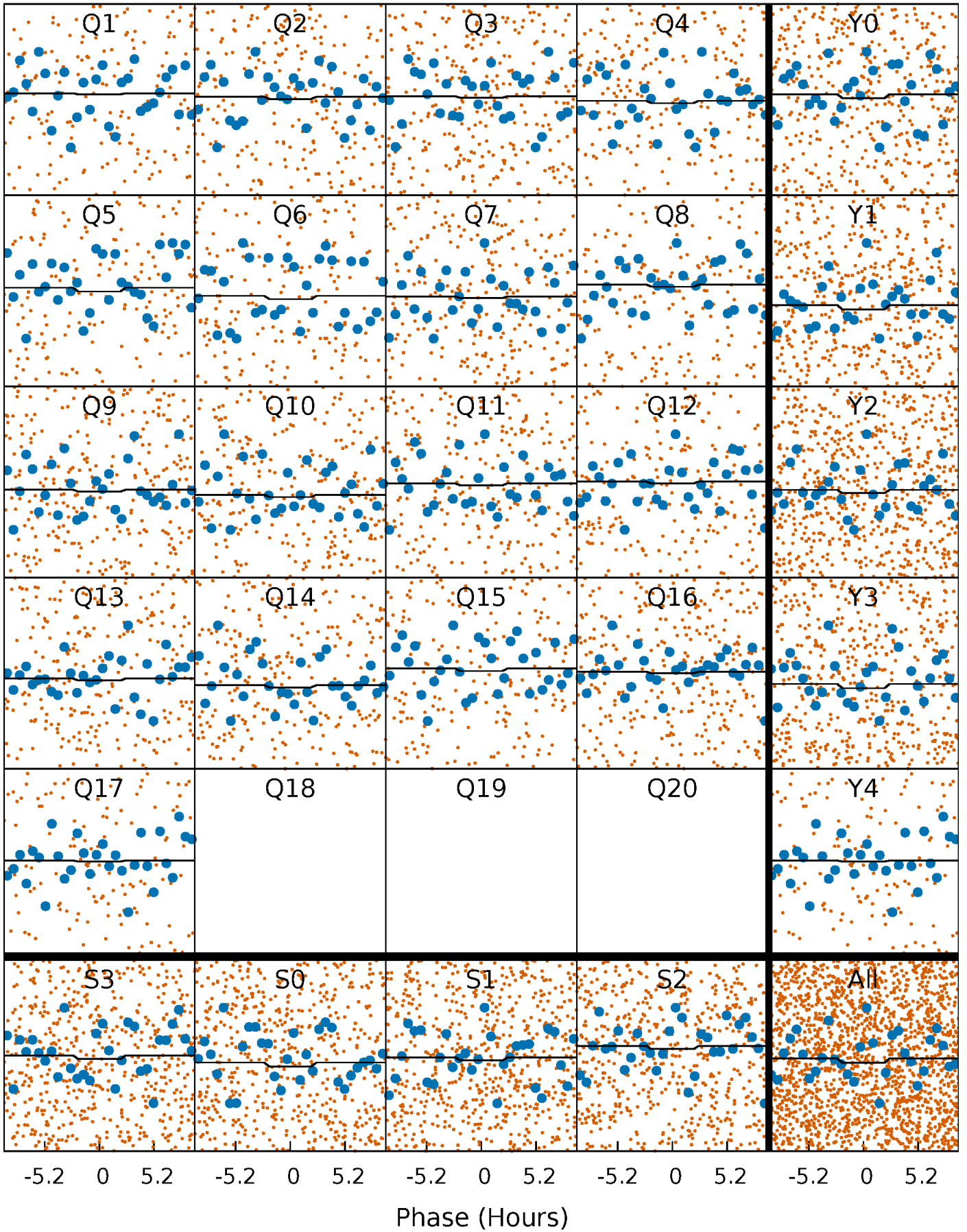
DV Quarter-Phased Transit Curves

TCE 005125048-03 P= 0.989920 Days $T_0=132.016641$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

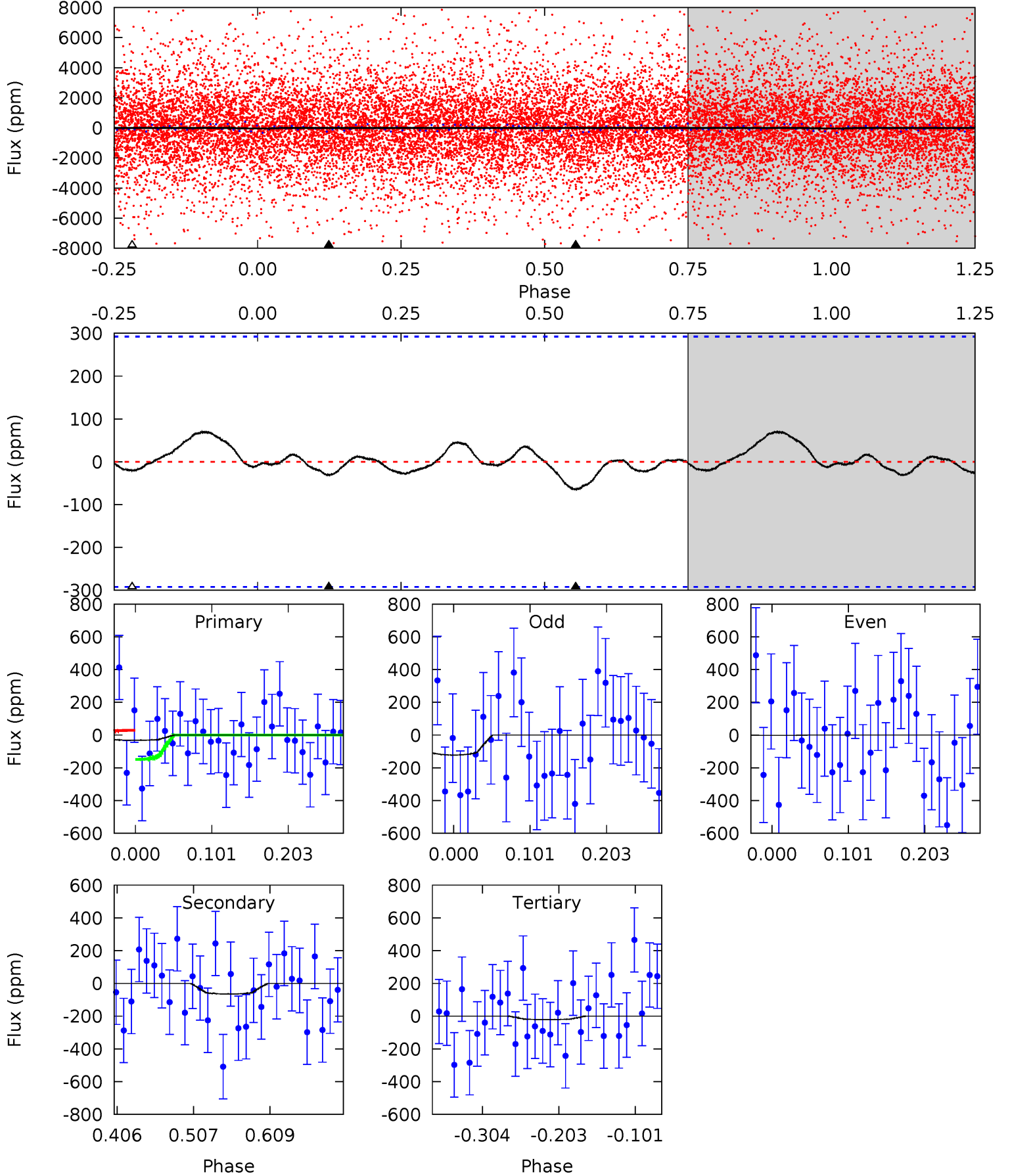
TCE 005125048-03 P= 0.989723 Days $T_0=131.986626$ (BKJD)



DV Model-Shift Uniqueness Test

005125048-03, P = 0.989920 Days, E = 131.026721 Days

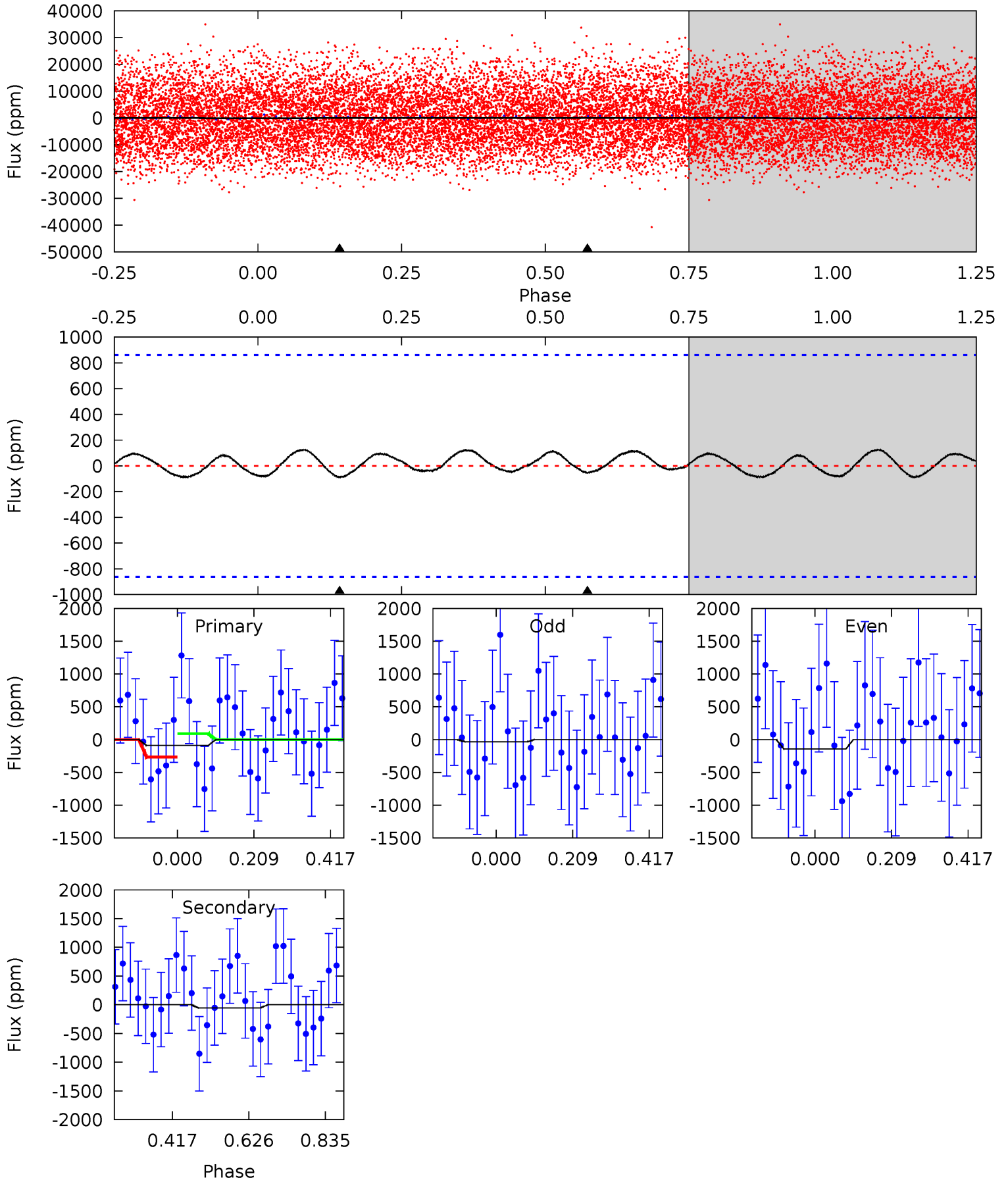
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.50	1.01	0.33	0	4.56	1.64	0.42	0.17	0.50	0.69	1.01	0.95	0.03	0.52	0



Alt Model-Shift Uniqueness Test

005125048-03, P = 0.989723 Days, E = 130.996903 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.46	0.28	0	0	4.41	1.26	0.34	0.46	0.46	0.28	0.28	0.28	3.66	0.59	0.45



Stellar Parameters For KIC 005125048

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6751^{+162}_{-223}	$4.233^{+0.128}_{-0.192}$	$-0.320^{+0.250}_{-0.300}$	$1.397^{+0.403}_{-0.268}$	$1.224^{+0.170}_{-0.170}$	$0.633^{+0.444}_{-0.303}$
	+2%/-3%	+3%/-5%	+78%/-94%	+29%/-19%	+14%/-14%	+70%/-48%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005125048-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-65 ± 64	$12.02^{+13.94}_{-8.05}$	3431^{+247}_{-202}	-3177^{+6832}_{-254}	$0.075^{+0.783}_{-0.076}$
Alt.	-54 ± 195	$12.95^{+13.68}_{-9.29}$	3430^{+270}_{-216}	-3258^{+6927}_{-460}	$0.041^{+0.809}_{-0.282}$

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

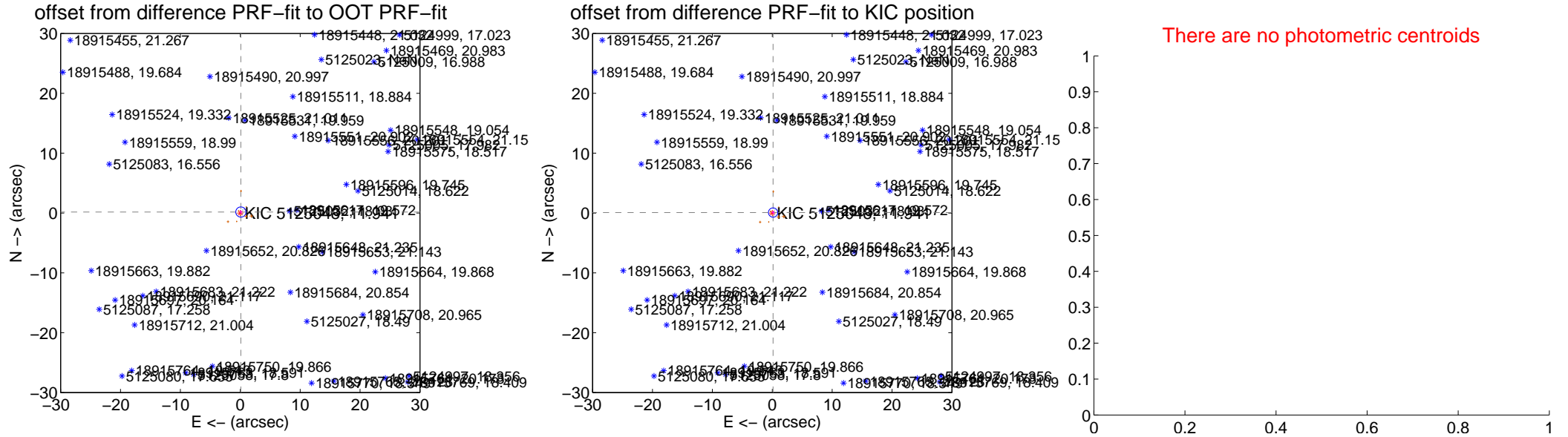
DV Centroid Data

Supplemental centroid analysis for 005125048-03. **Kepler magnitude: 11.94.** Transit SNR 0.00

There are 5 quarters with good PRF difference image offsets

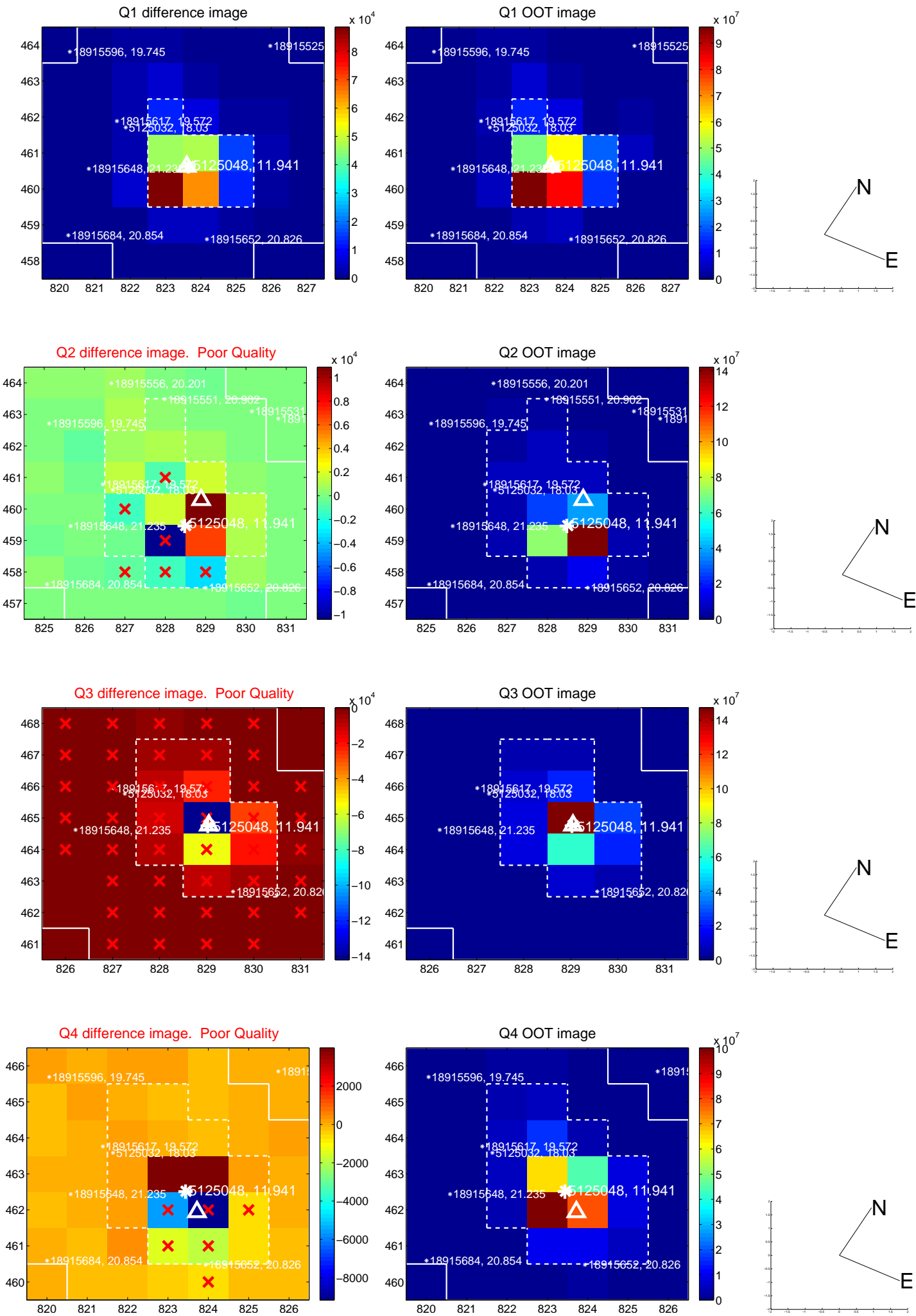
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.191 ± 0.284	0.67	-0.097 ± 0.209	0.165 ± 0.277
PRF-fit source offset from KIC position	0.159 ± 0.259	0.61	-0.138 ± 0.216	0.078 ± 0.270
photometric centroid source offset	—	—	—	—

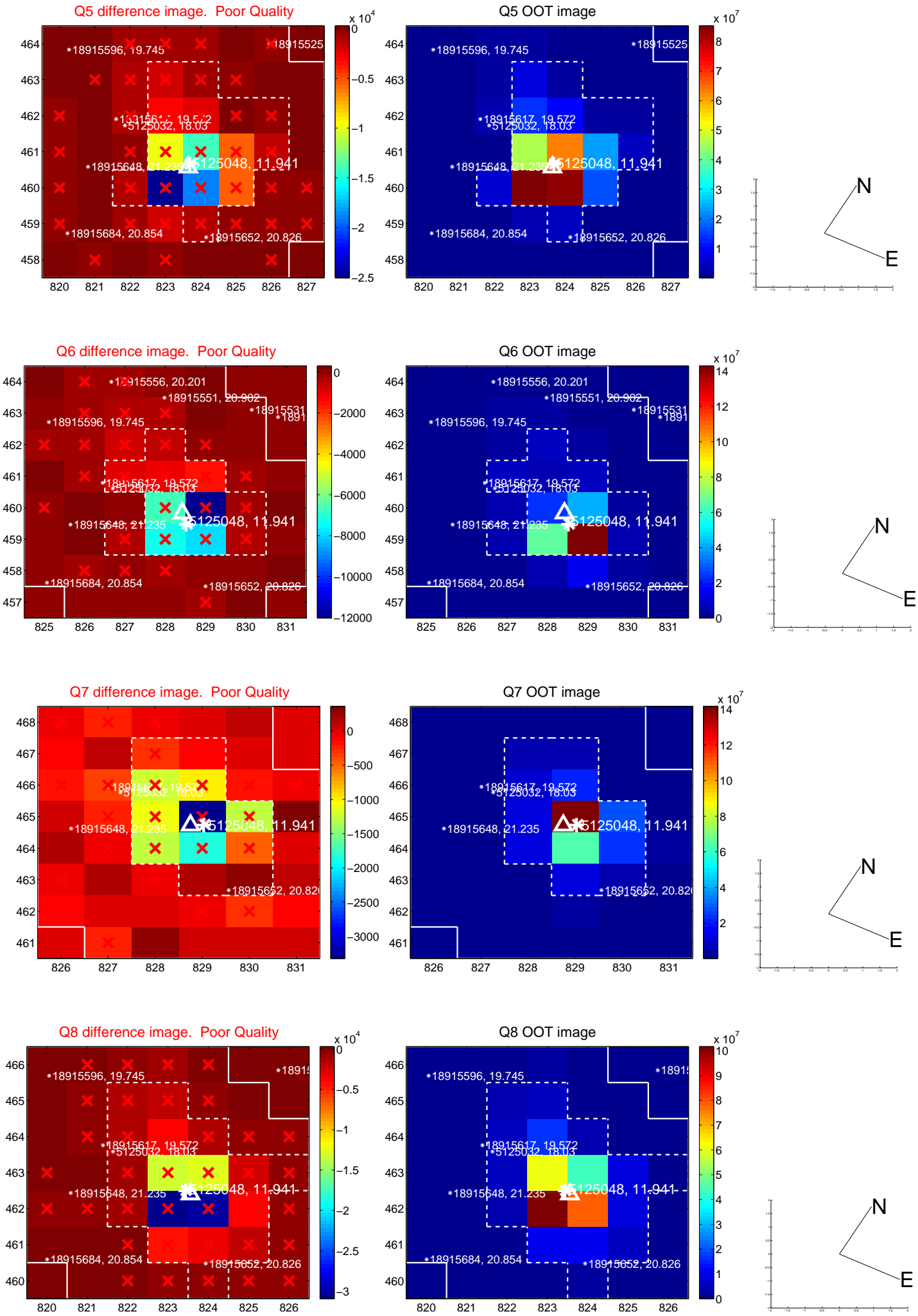


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

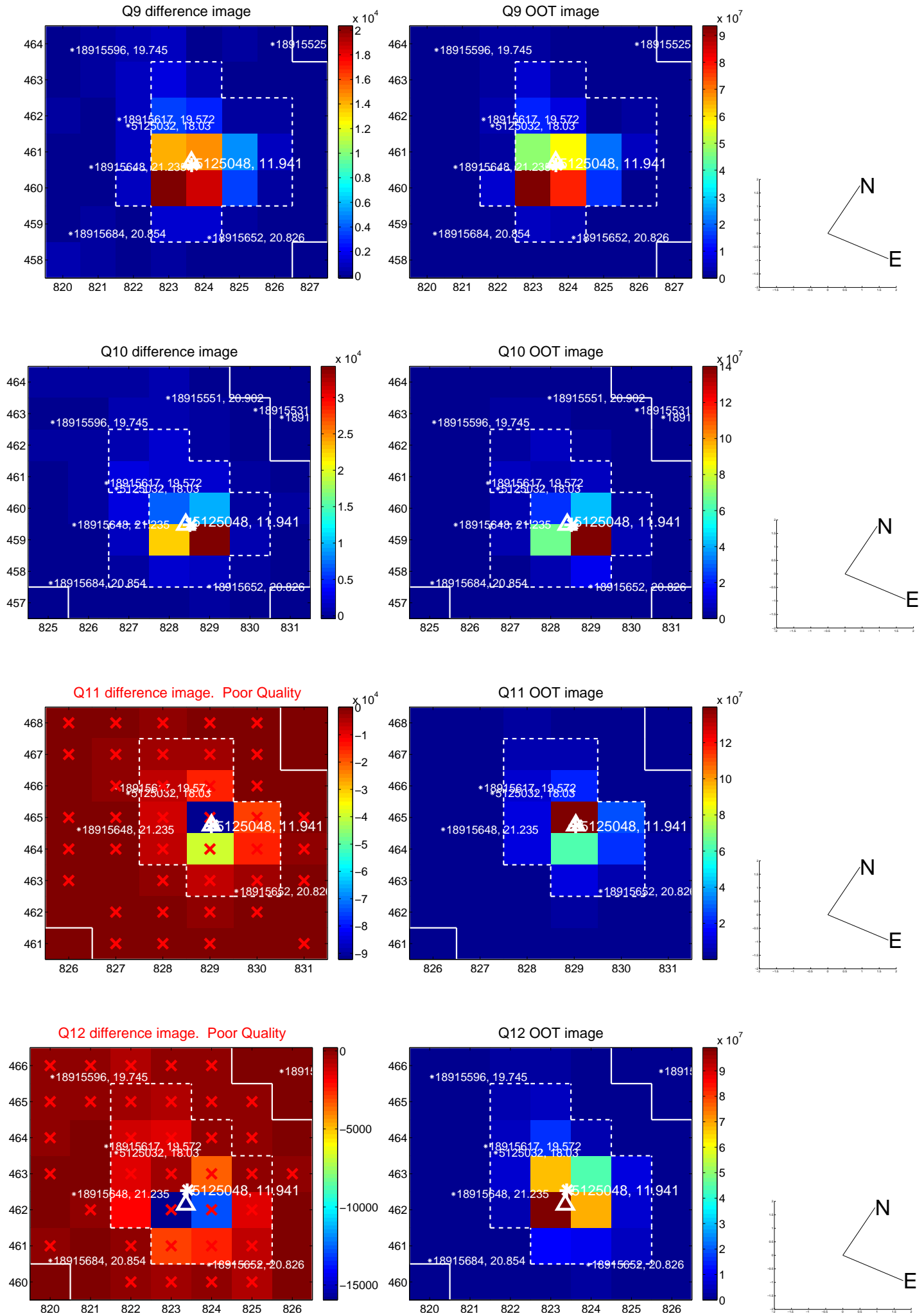
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



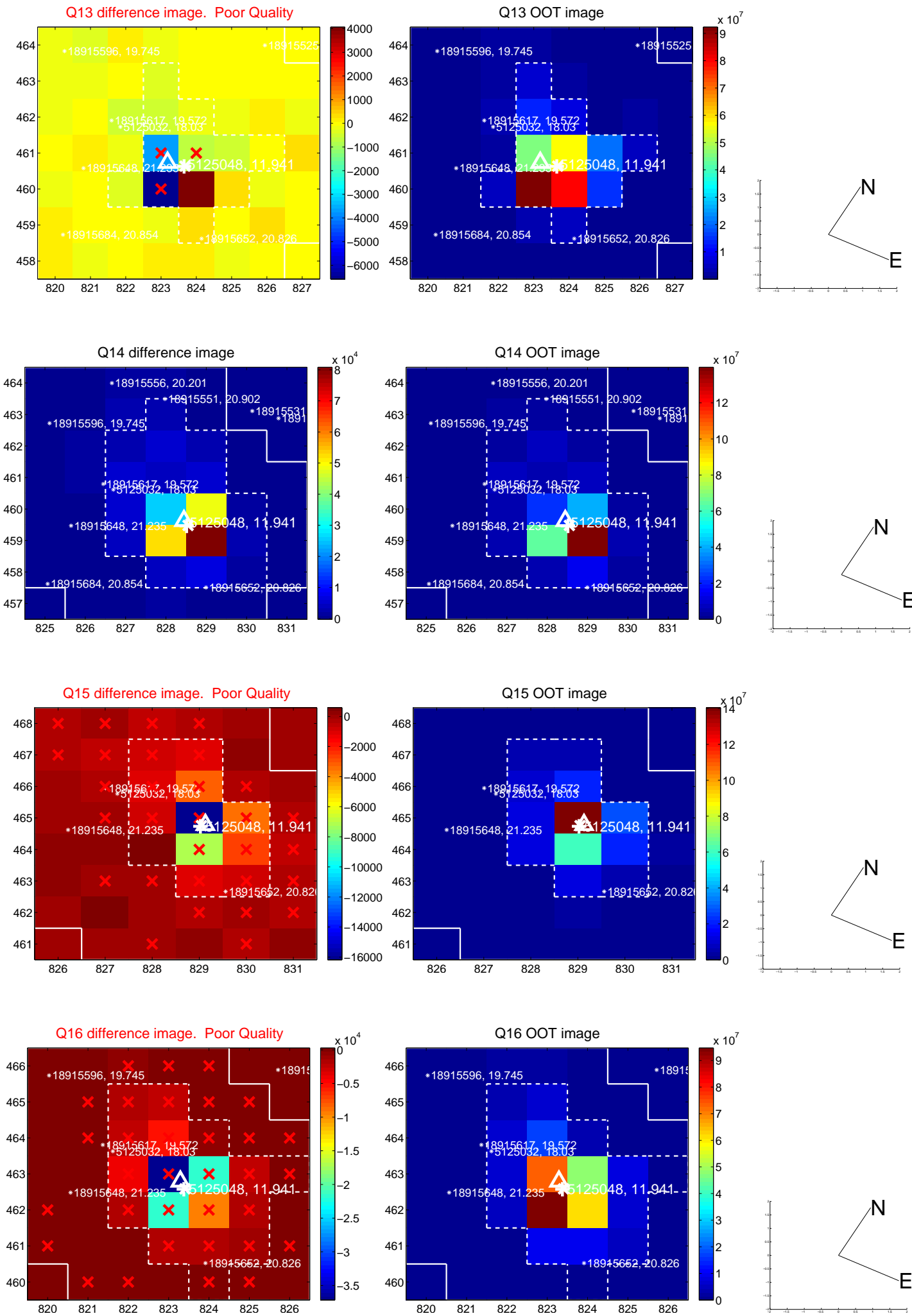
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



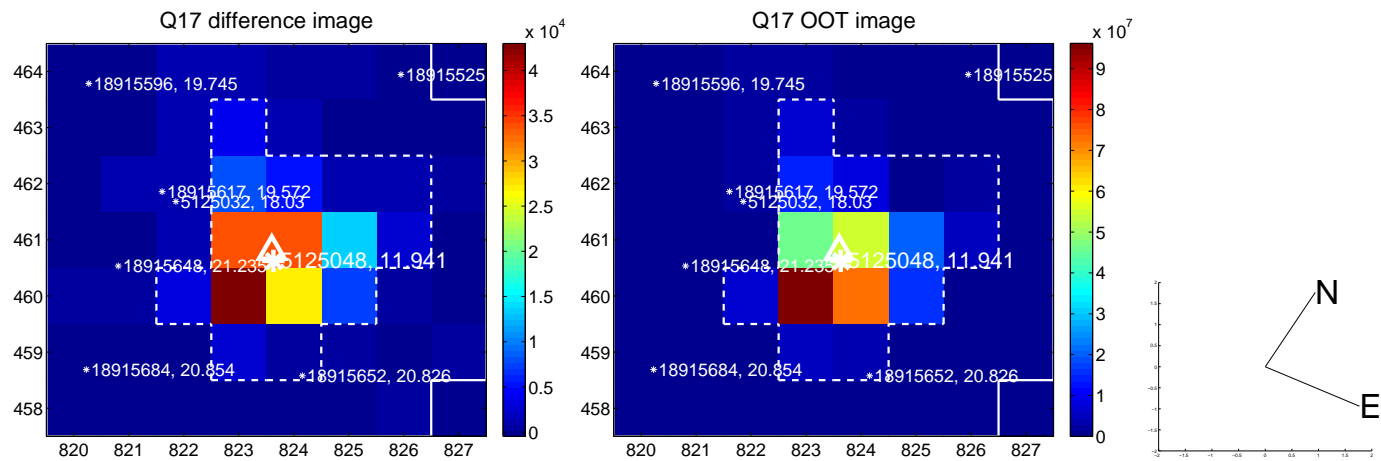
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

