

KIC 007294135

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})
007294135-01	OBS	No	0.574550	131.730298	206.5	1.979	22.3	23.9	2.04	6988	3.41	35438.93
007294135-02	OBS	No	0.574555	131.541885	202.8	1.699	21.3	23.2	2.04	6988	3.38	35438.46
007294135-03	OBS	No	0.574560	131.917427	111.4	1.999	23.7	15.5	2.04	6988	2.18	35438.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007294135-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
007294135-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007294135-03	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

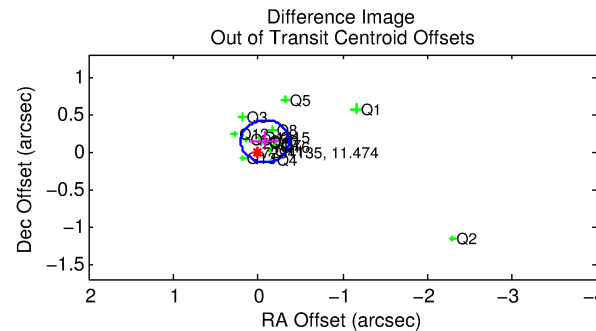
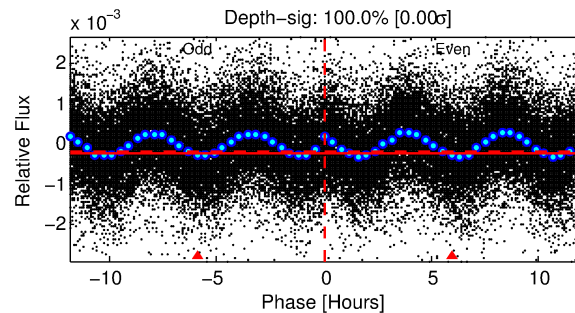
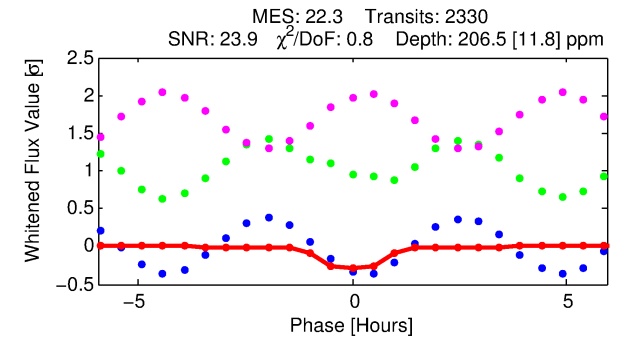
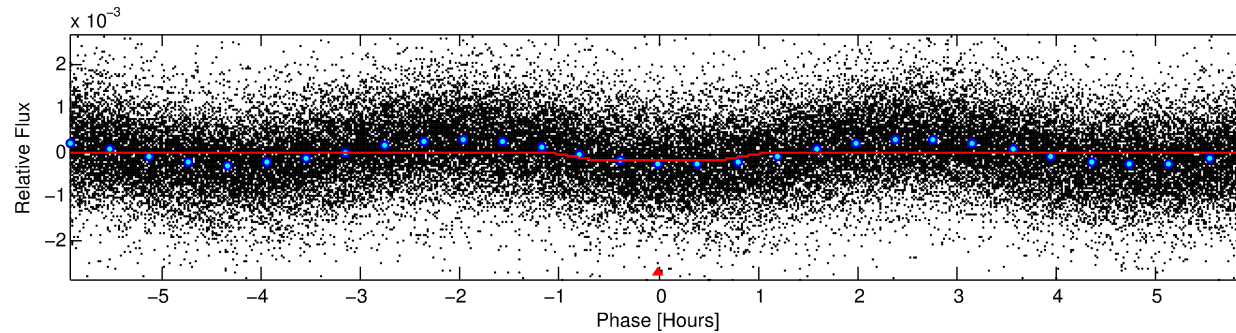
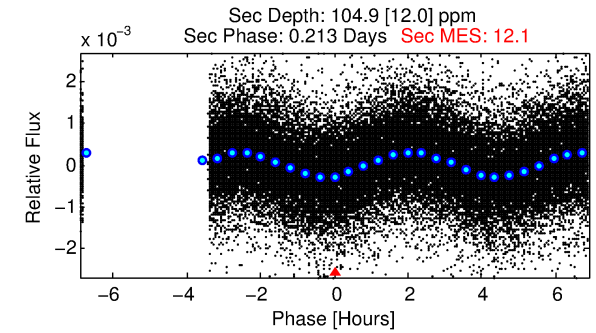
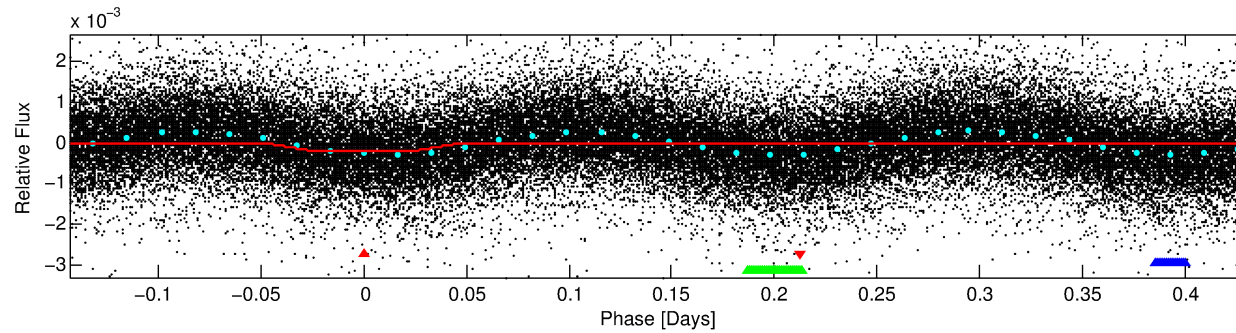
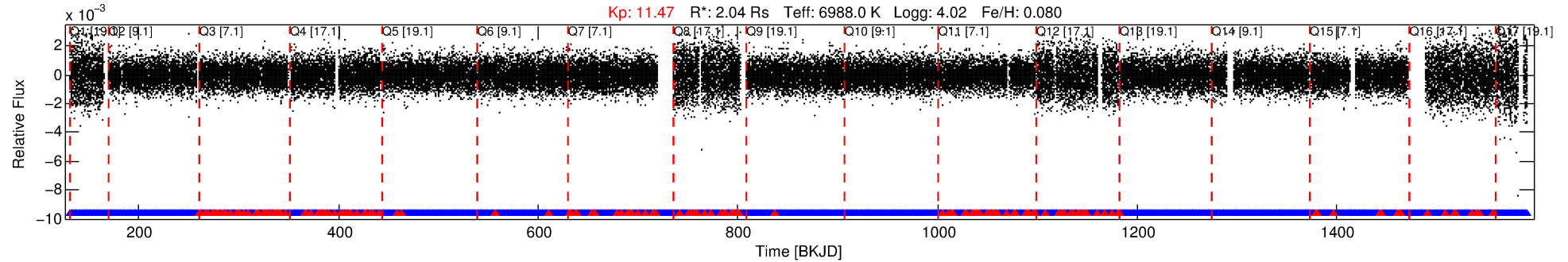
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007294135-01

No Significant Match Found

DV One-Page Summary

KIC: 7294135 Candidate: 1 of 3 Period: 0.575 d



DV Fit Results:

Period = 0.57455 [0.00000] d
Epoch = 131.7303 [0.0011] BKJD
Rp/R* = 0.0153 [0.0033]
a/R* = 1.40 [0.91]
b = 0.90 [0.28]
Seff = 35438.92 [14866.30]
Teq = 3499 [367] K
Rp = 3.41 [1.23] Re
a = 0.0158 [0.0040] AU
Ag = 1.24 [0.73] [0.33σ]
Teffp = 5711 [698] K [2.81σ]

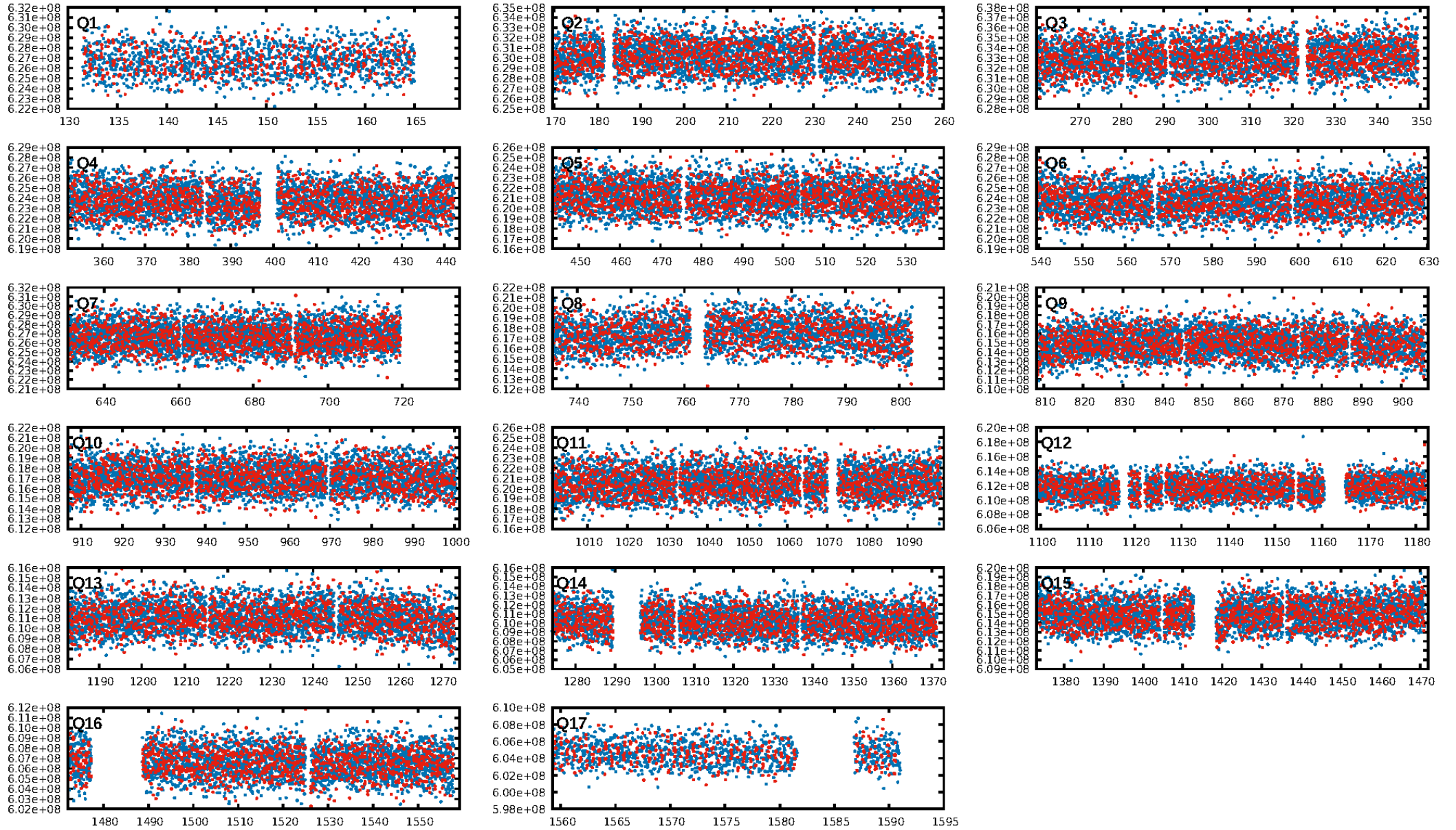
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.93 [2066/2226]
GhostDiagnostic-chr: 2.44
Centroid-sig: N/A
Centroid-so: 0.018 arcsec [0.52σ]
OotOffset-rm: 0.162 arcsec [1.72σ]
KicOffset-rm: 0.286 arcsec [2.74σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

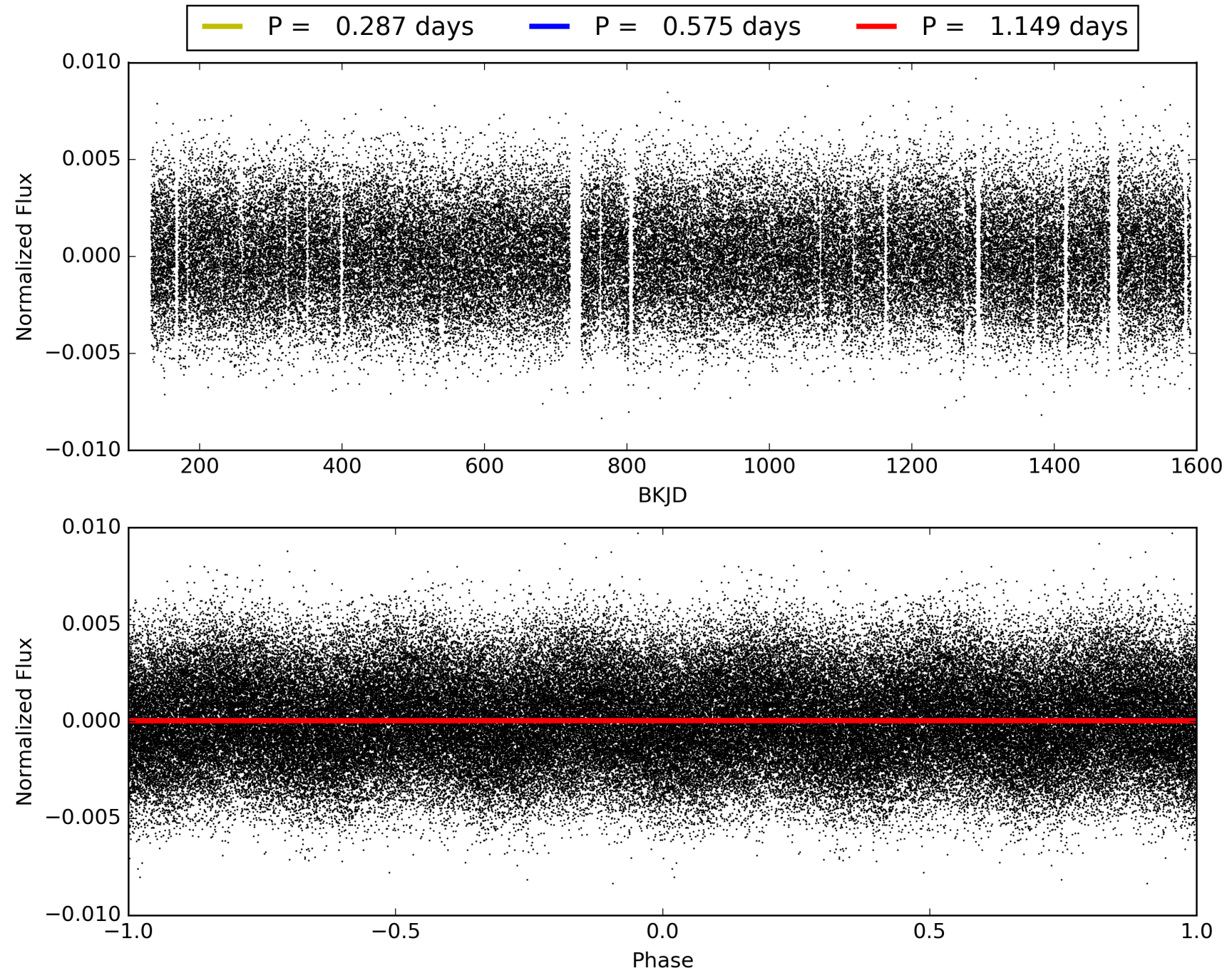
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:33:43 Z

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

TCE 007294135-01, PDC Light Curves

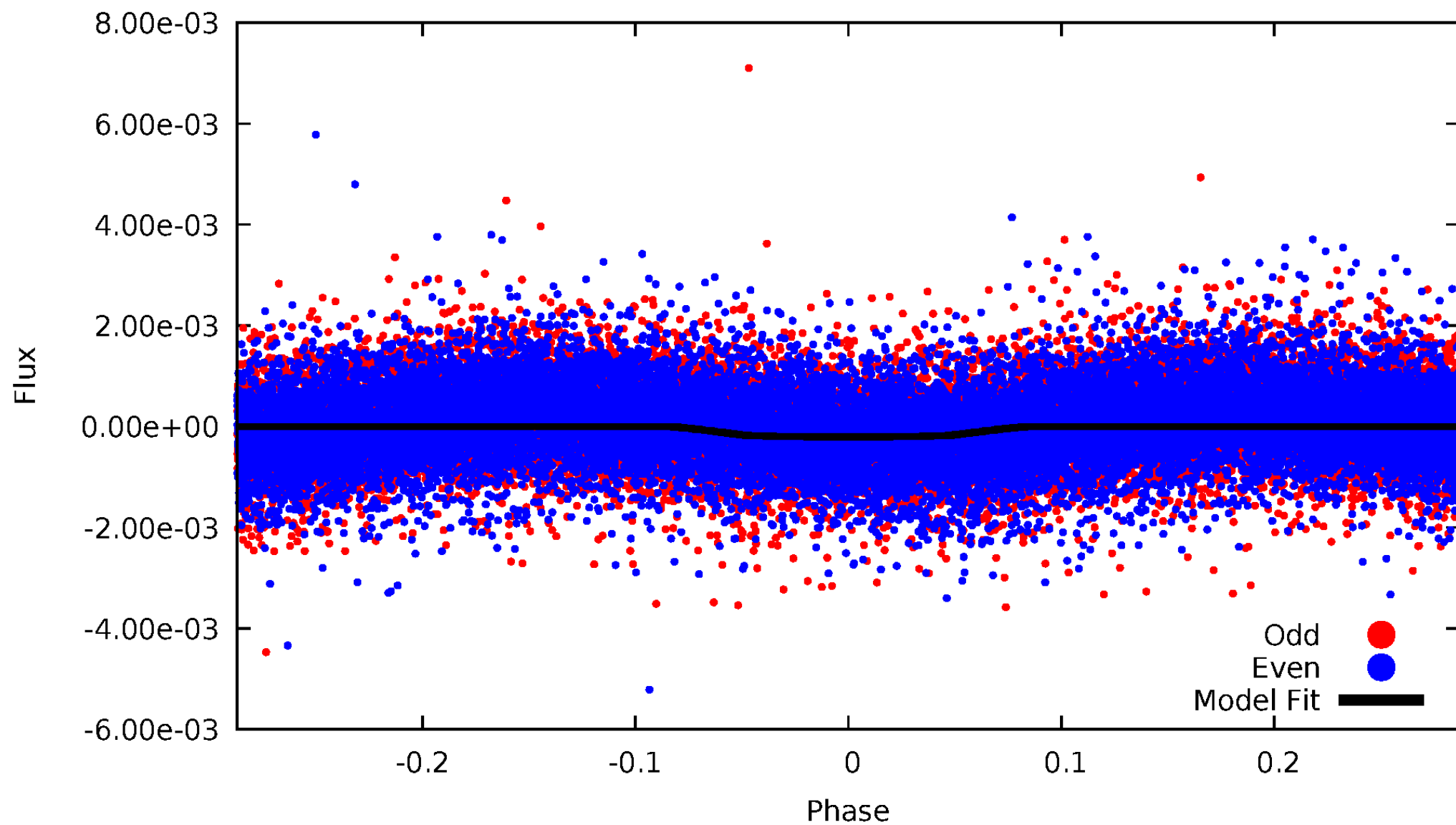


TCE 007294135-01



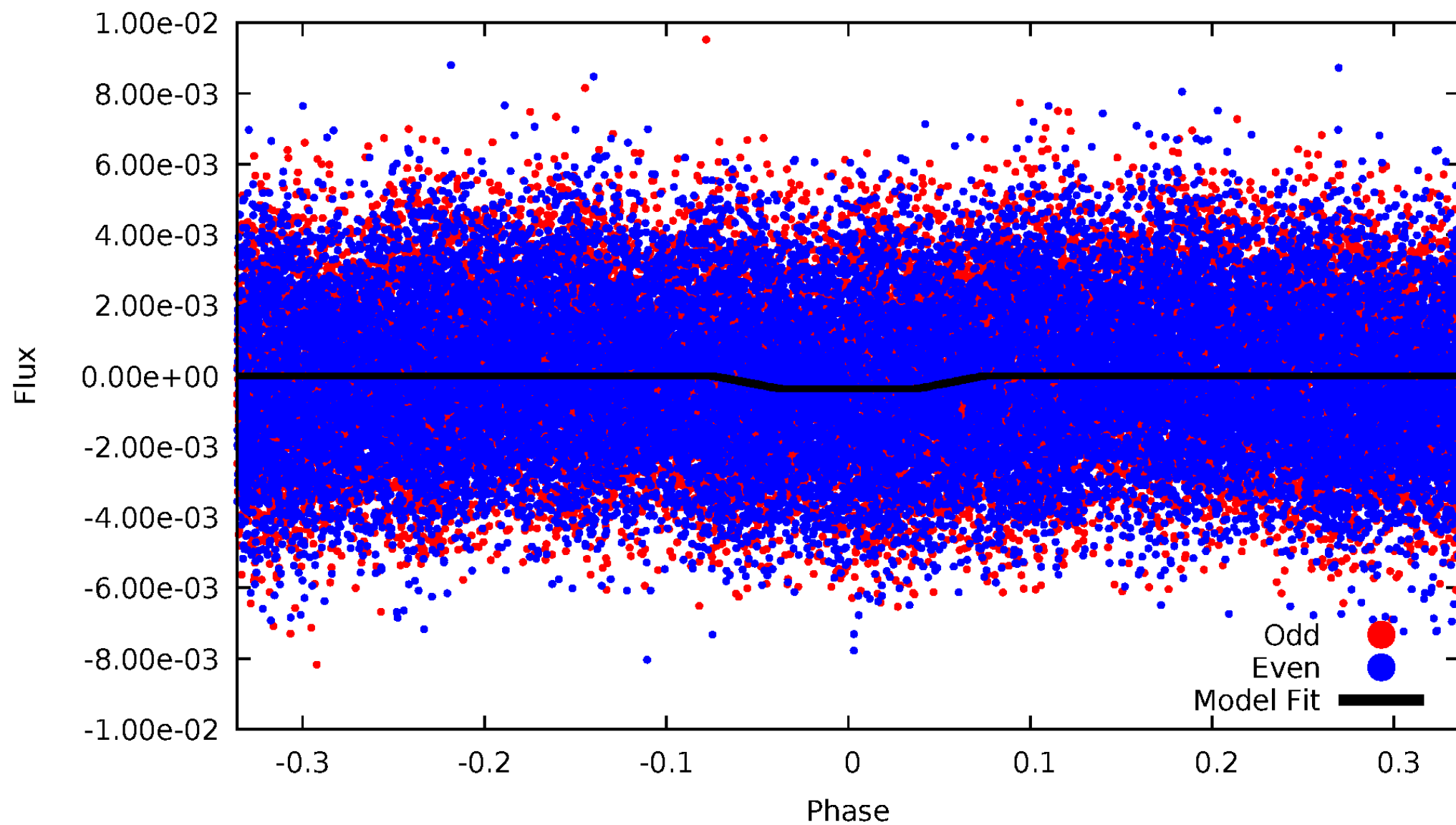
DV Odd/Even

TCE 007294135-01



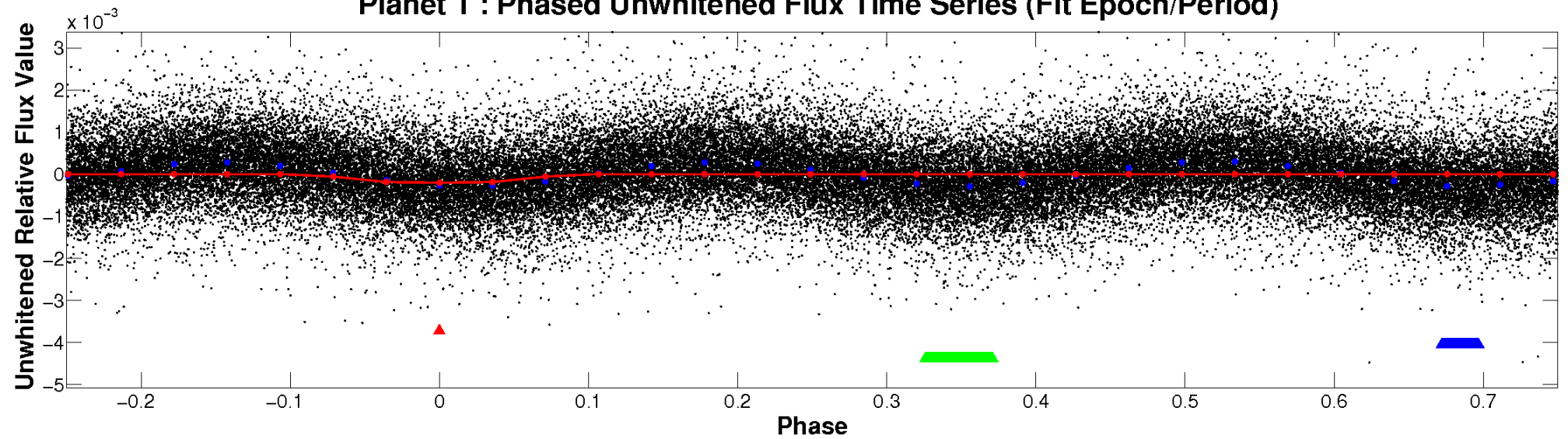
ALT Odd/Even

TCE 007294135-01

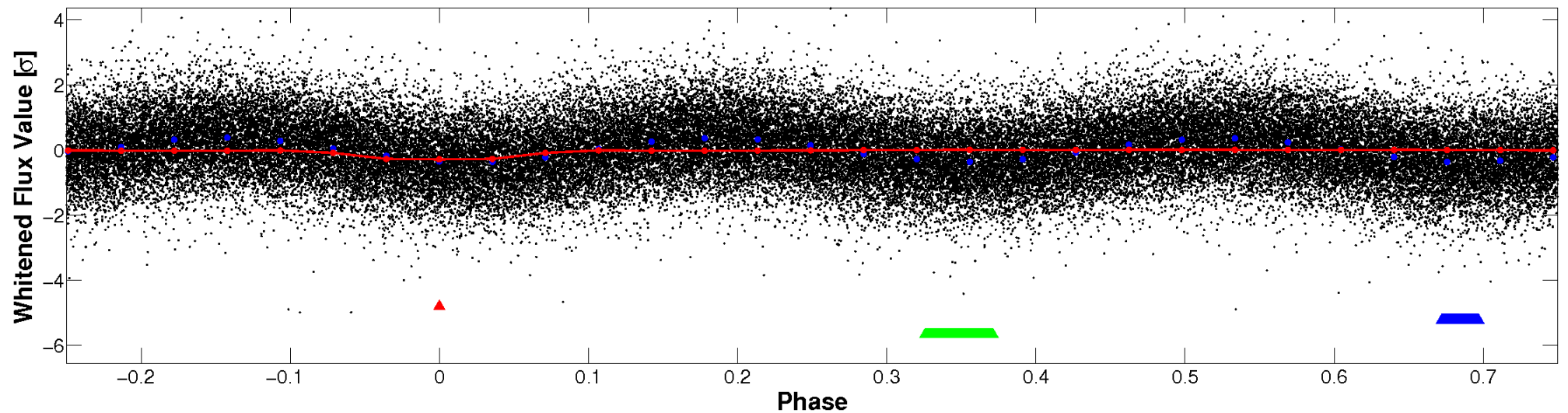


Non-Whitened Vs. Whitened Light Curve

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

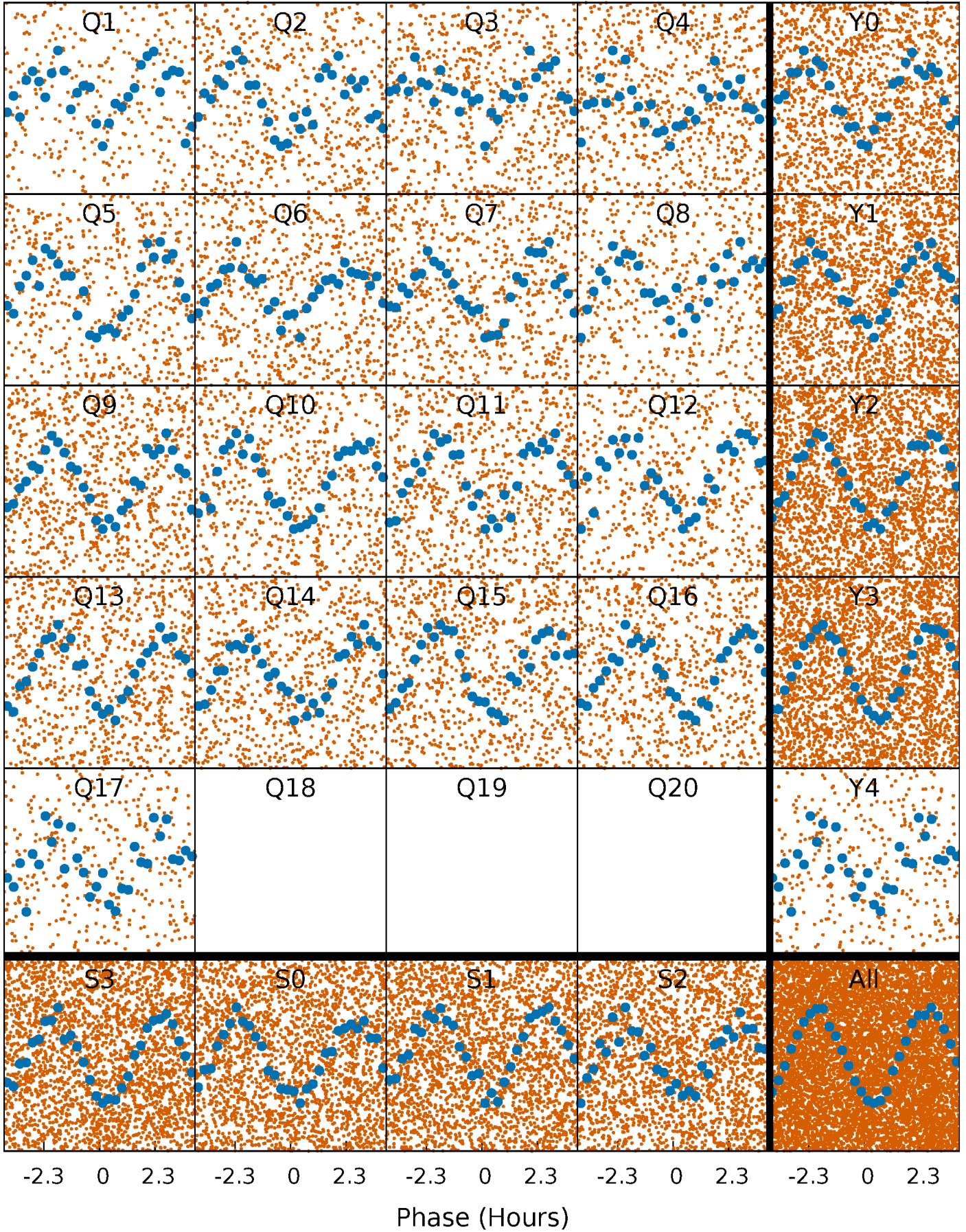


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



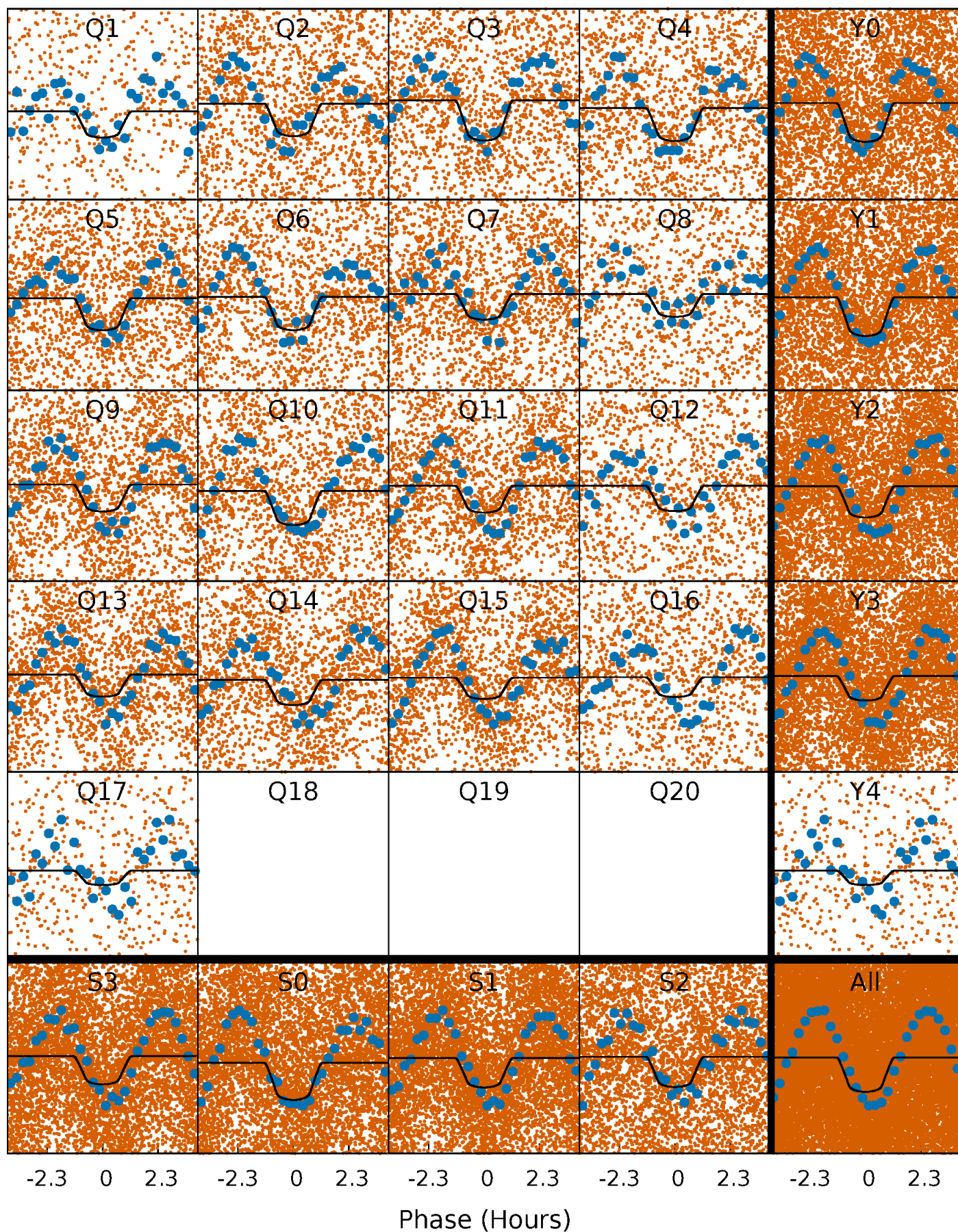
PDC Quarter-Phased Transit Curves

TCE 007294135-01 P= 0.574550 Days $T_0=131.730299$ (BKJD)



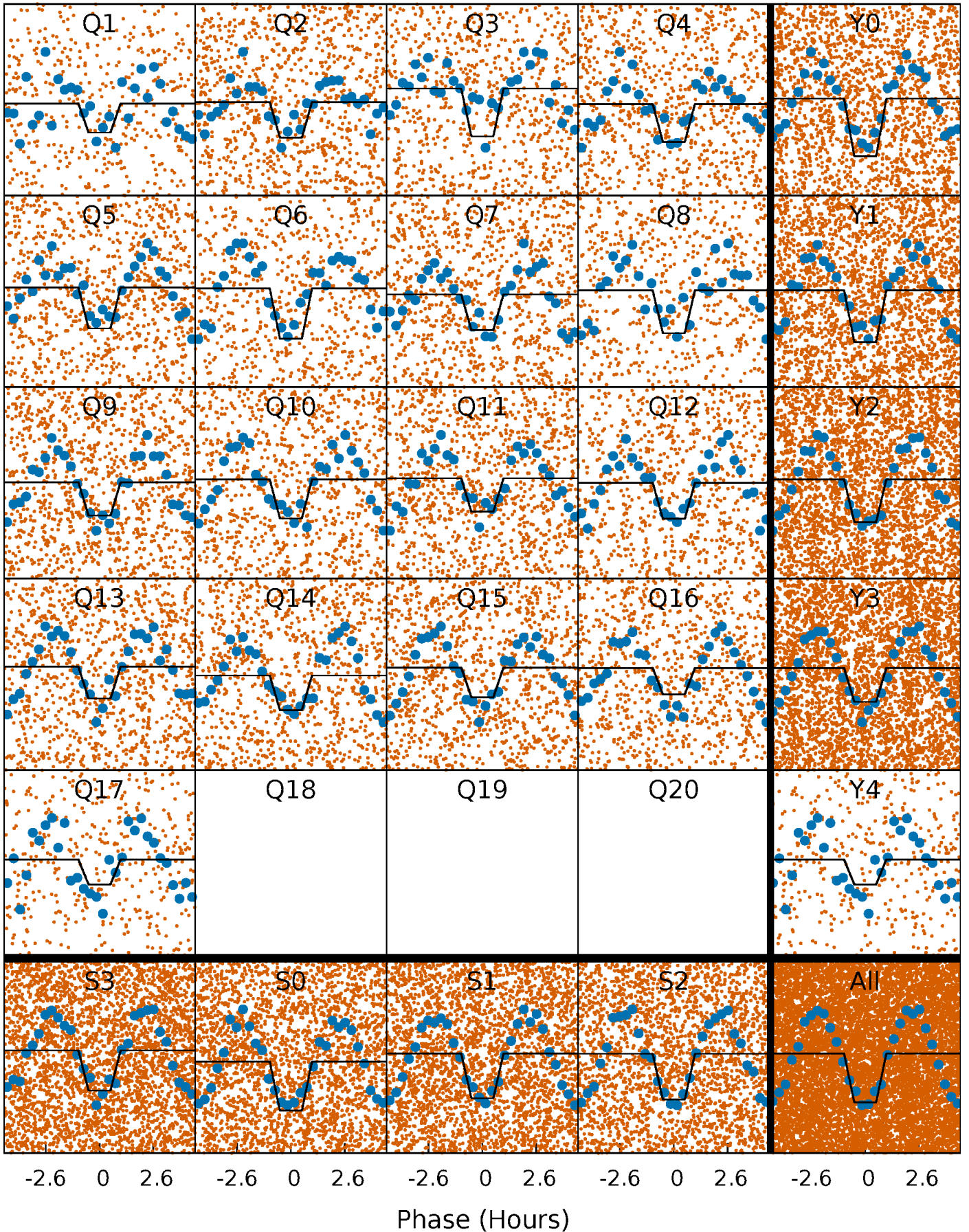
DV Quarter-Phased Transit Curves

TCE 007294135-01 P= 0.574550 Days $T_0=131.730299$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

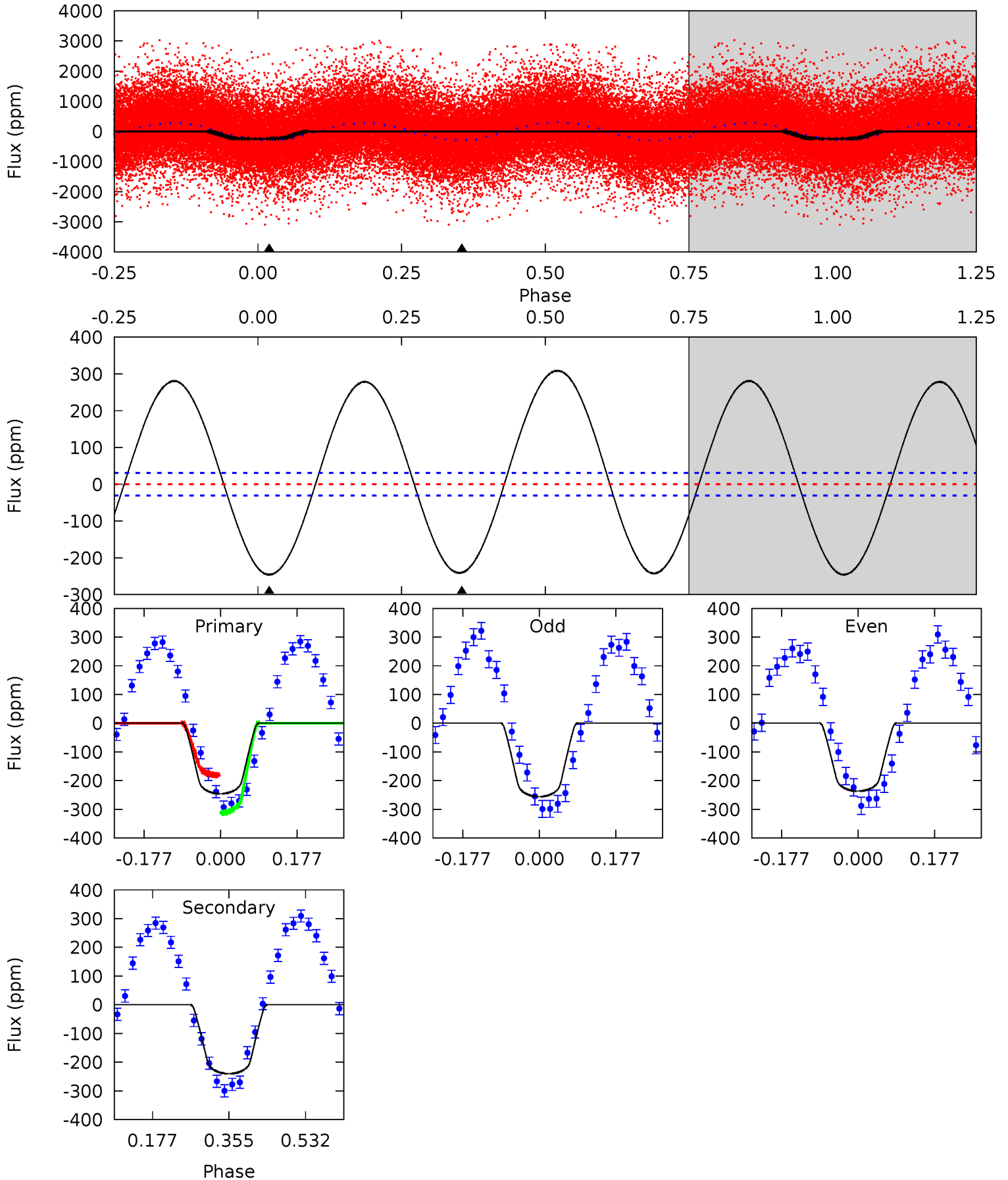
TCE 007294135-01 P= 0.574561 Days $T_0=131.727721$ (BKJD)



DV Model-Shift Uniqueness Test

007294135-01, P = 0.574550 Days, E = 131.155749 Days

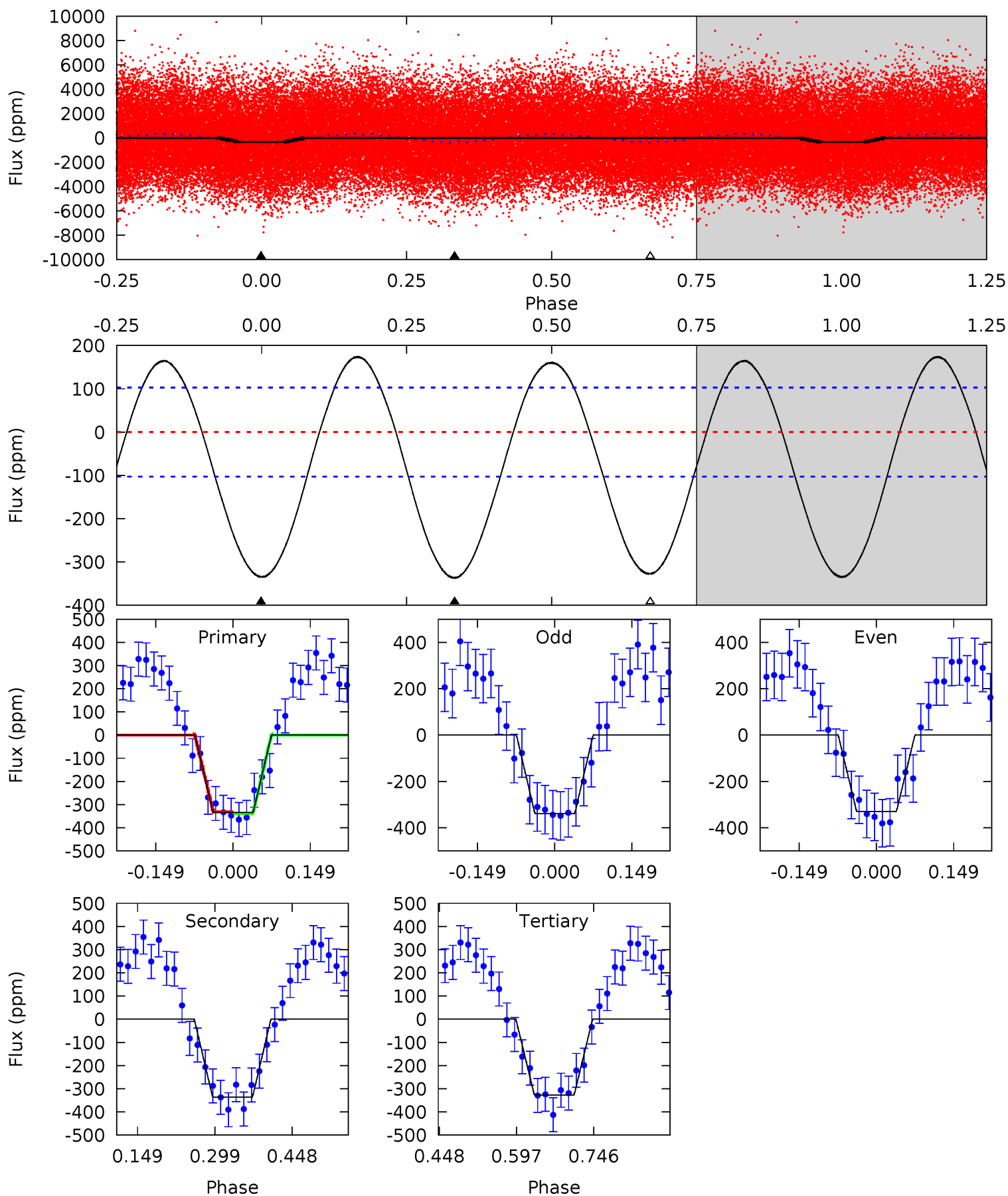
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.7	34.9	0	0	4.44	1.35	26.4	35.7	35.7	34.9	34.9	1.44	0.94	0.56	9.91



Alt Model-Shift Uniqueness Test

007294135-01, P = 0.574561 Days, E = 131.153160 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.6	14.7	14.2	0	4.48	1.44	7.96	0.32	14.6	0.41	14.7	0.20	0.89	0.34	0.14



Stellar Parameters For KIC 007294135

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6988^{+194}_{-333}	$4.024^{+0.209}_{-0.171}$	$0.080^{+0.200}_{-0.350}$	$2.039^{+0.586}_{-0.586}$	$1.601^{+0.207}_{-0.311}$	$0.266^{+0.331}_{-0.130}$
	+3%/-5%	+5%/-4%	+250%/-438%	+29%/-29%	+13%/-19%	+125%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007294135-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-240 ± 7	$3.35^{+0.98}_{-0.86}$	4844^{+368}_{-388}	6754^{+1199}_{-811}	$2.882^{+2.218}_{-1.103}$
Alt.	-337 ± 23	$4.09^{+0.99}_{-0.87}$	4846^{+372}_{-387}	6645^{+817}_{-703}	$2.740^{+1.562}_{-0.939}$

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

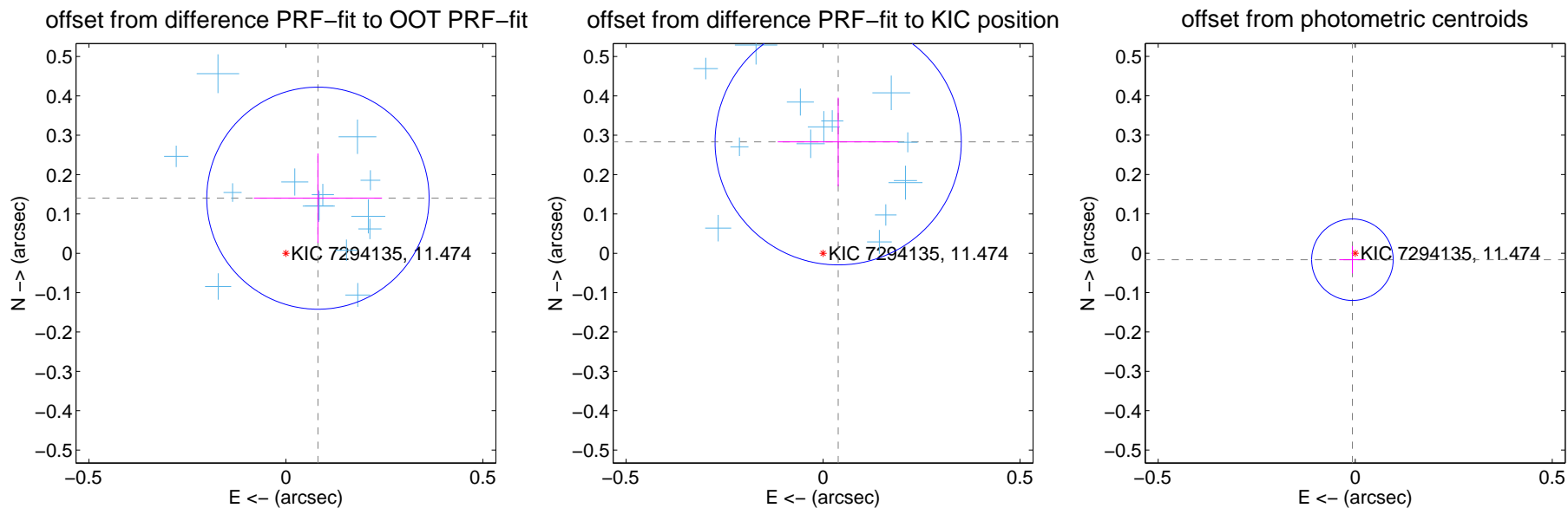
DV Centroid Data

Supplemental centroid analysis for 007294135-01. **Kepler magnitude: 11.47.** Transit SNR 23.89

There are 17 quarters with good PRF difference image offsets

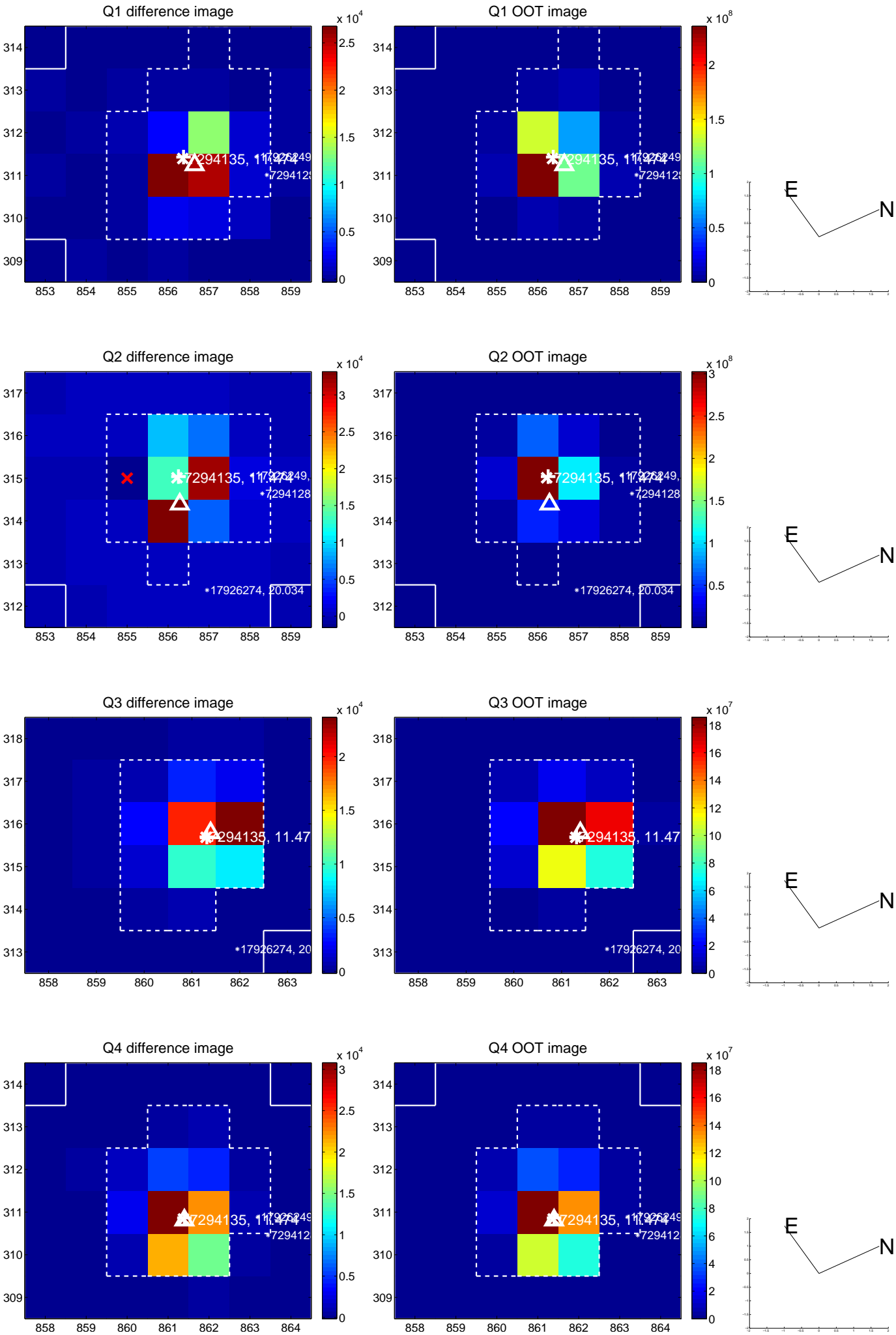
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.162 ± 0.094	1.72	-0.081 ± 0.163	0.140 ± 0.114
PRF-fit source offset from KIC position	0.286 ± 0.104	2.74	-0.038 ± 0.153	0.283 ± 0.113
photometric centroid source offset	0.02 ± 0.03	0.52	0.01 ± 0.03	-0.02 ± 0.03

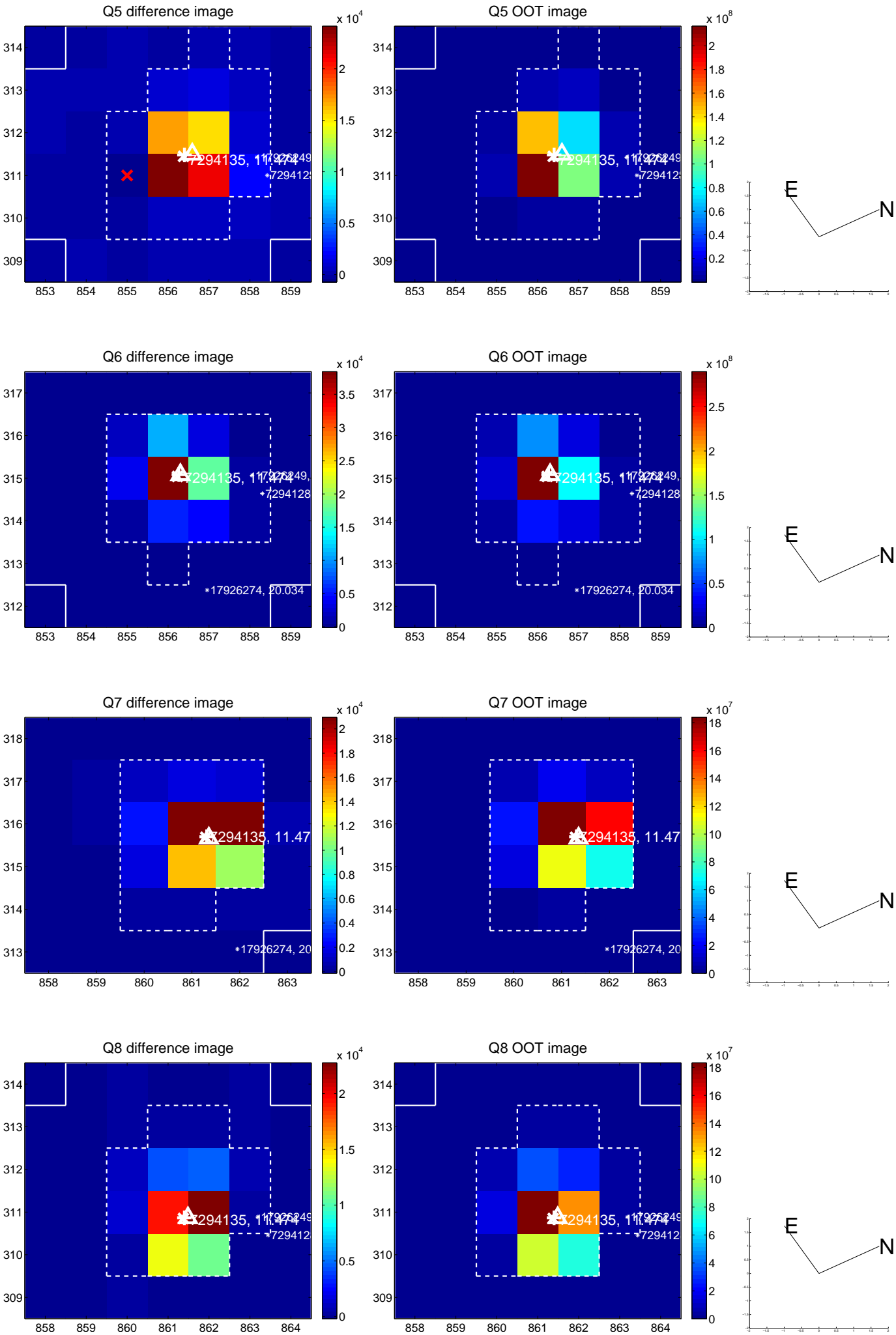


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

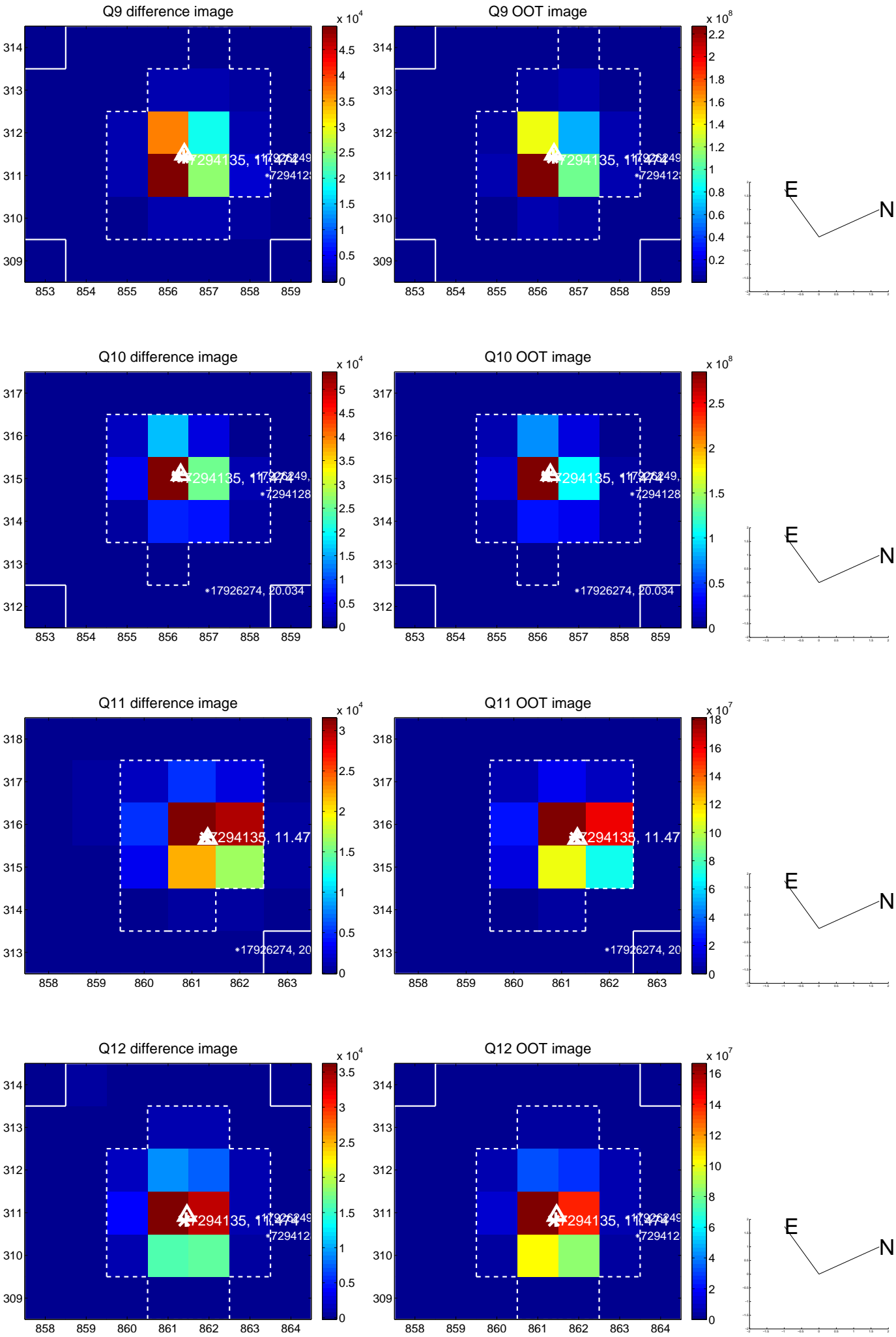
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



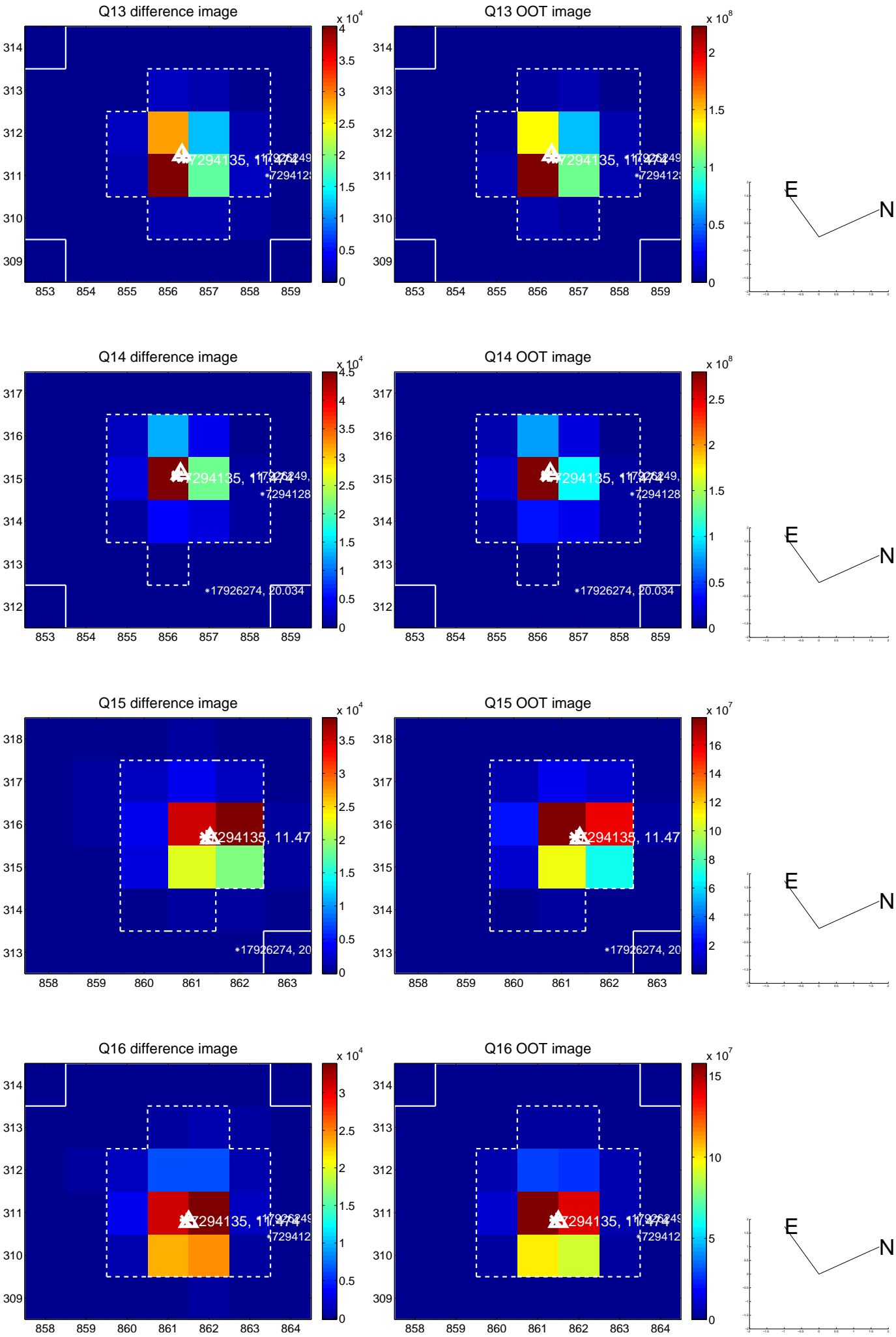
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



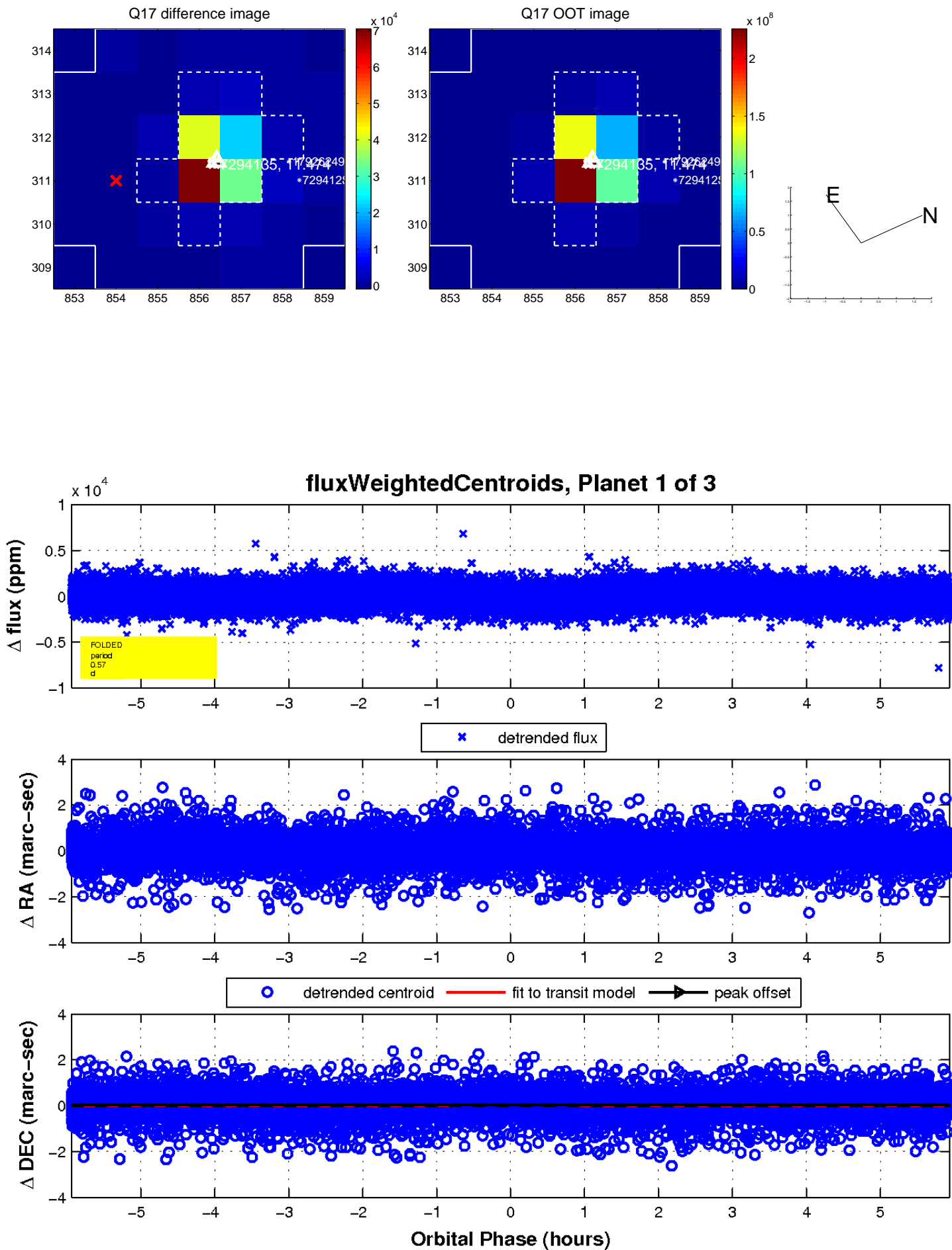
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

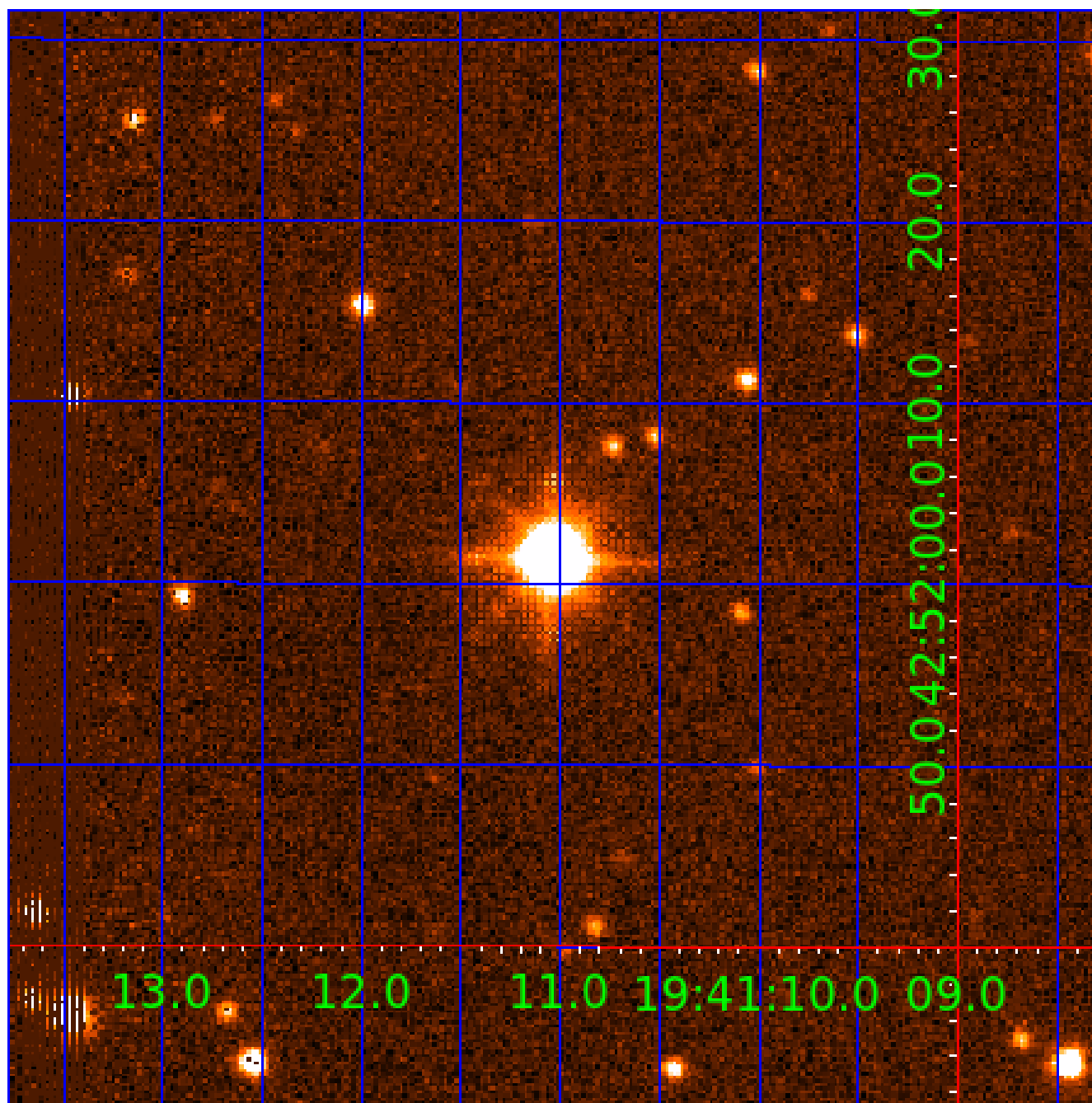


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007294135

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})
007294135-01	OBS	No	0.574550	131.730298	206.5	1.979	22.3	23.9	2.04	6988	3.41	35438.93
007294135-02	OBS	No	0.574555	131.541885	202.8	1.699	21.3	23.2	2.04	6988	3.38	35438.46
007294135-03	OBS	No	0.574560	131.917427	111.4	1.999	23.7	15.5	2.04	6988	2.18	35438.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007294135-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
007294135-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007294135-03	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

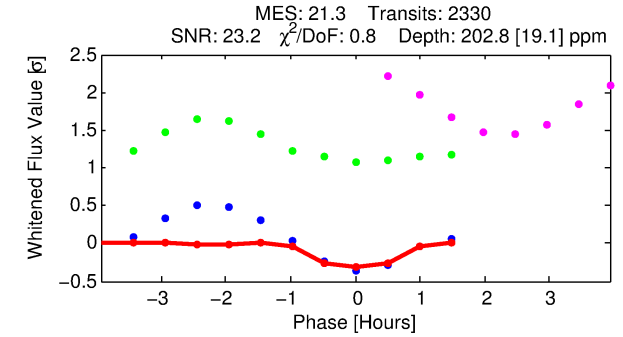
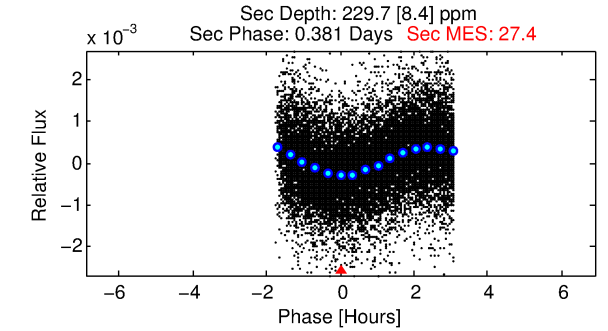
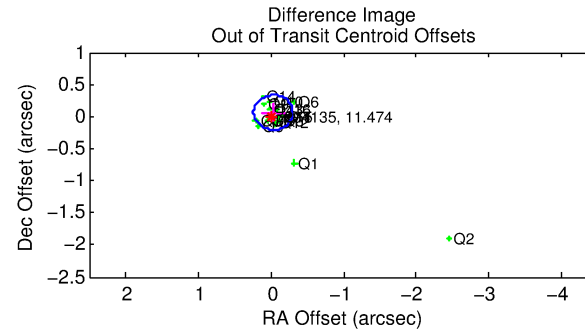
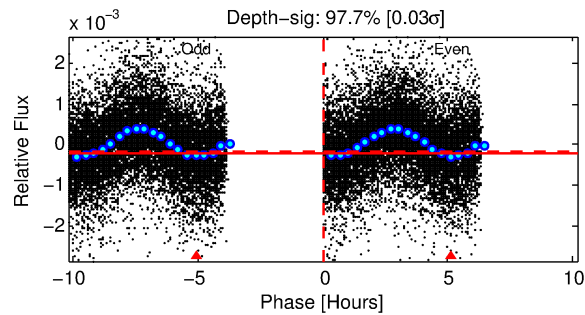
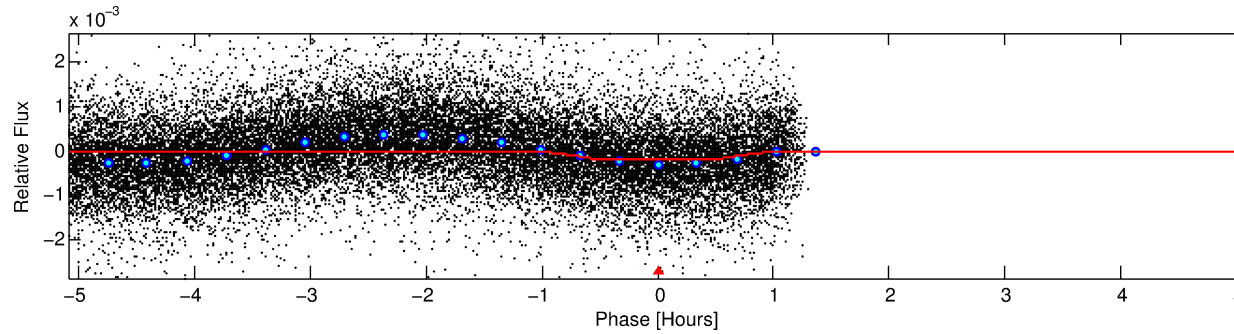
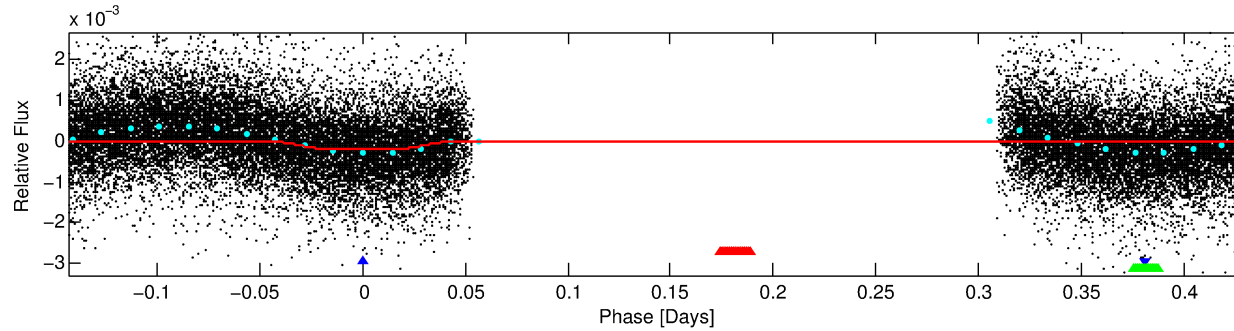
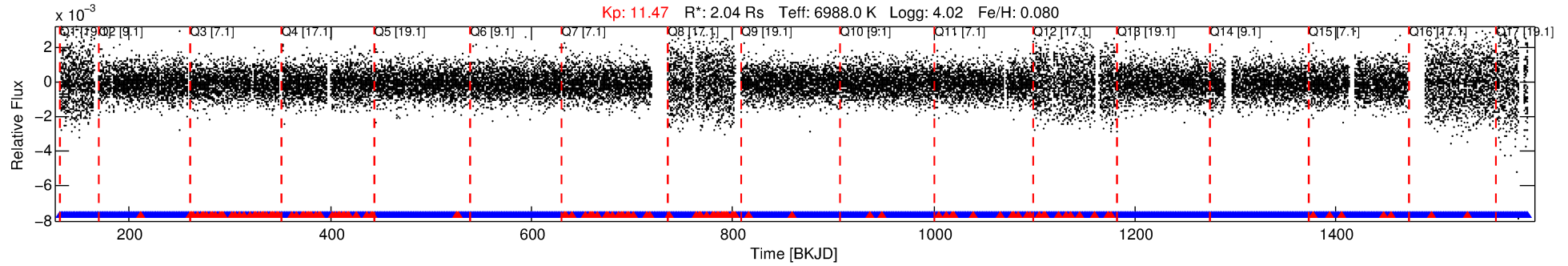
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007294135-02

No Significant Match Found

DV One-Page Summary

KIC: 7294135 Candidate: 2 of 3 Period: 0.575 d



DV Fit Results:

Period = 0.57456 [0.00001] d
Epoch = 131.5419 [0.0011] BKJD
Rp/R* = 0.0152 [0.0036]
a/R* = 1.53 [1.26]
b = 0.90 [0.30]
Seff = 35438.46 [14866.11]
Teq = 3499 [367] K
Rp = 3.38 [1.26] Re
a = 0.0158 [0.0040] AU
Ag = 2.77 [1.68] [1.05 σ]
Teff = 6975 [896] K [3.59 σ]

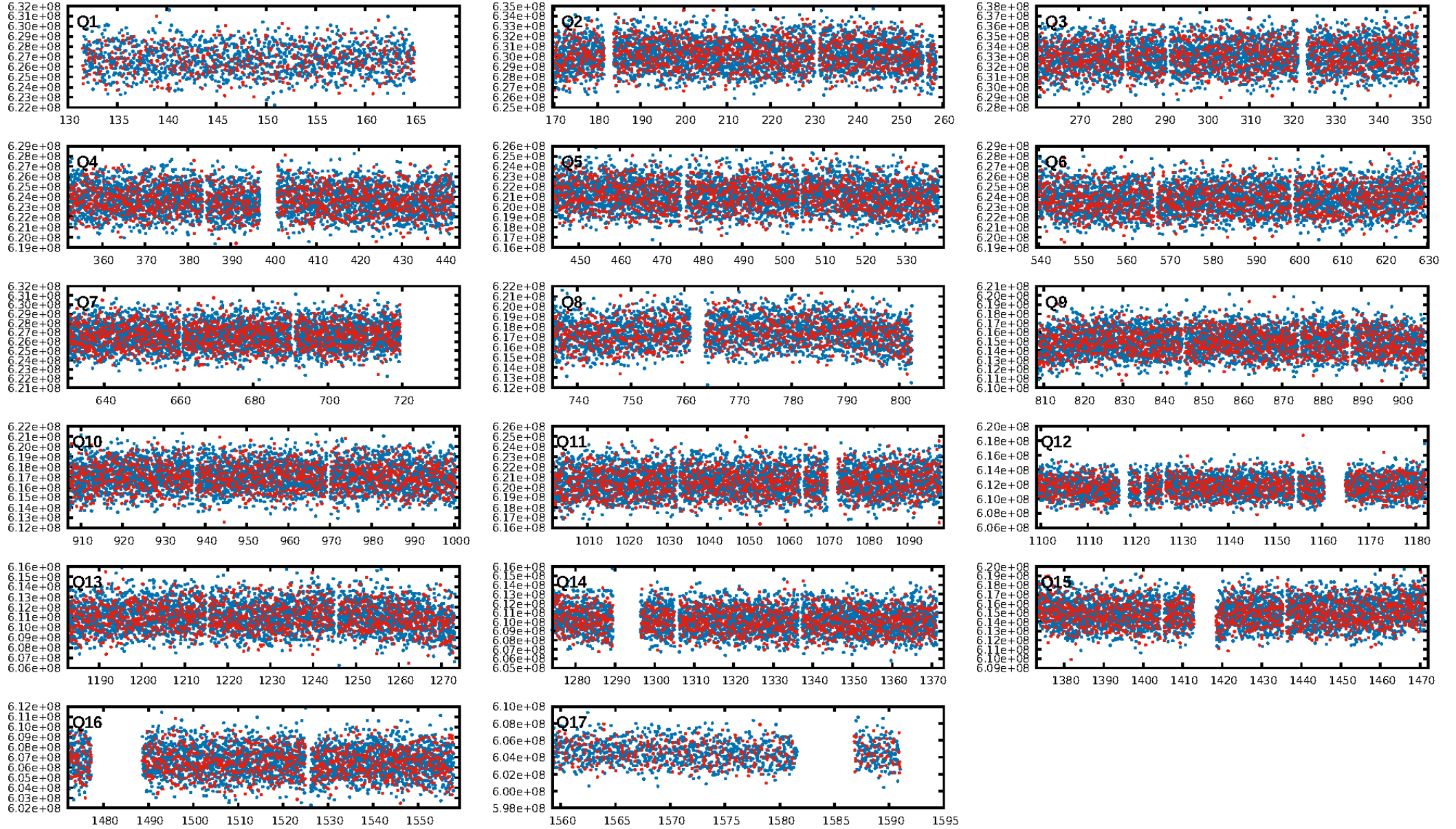
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.94 [2080/2224]
GhostDiagnostic-chr: 2.427
Centroid-sig: N/A
Centroid-so: 0.092 arcsec [2.47 σ]
OotOffset-rm: 0.073 arcsec [0.81 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.195 arcsec [1.41 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

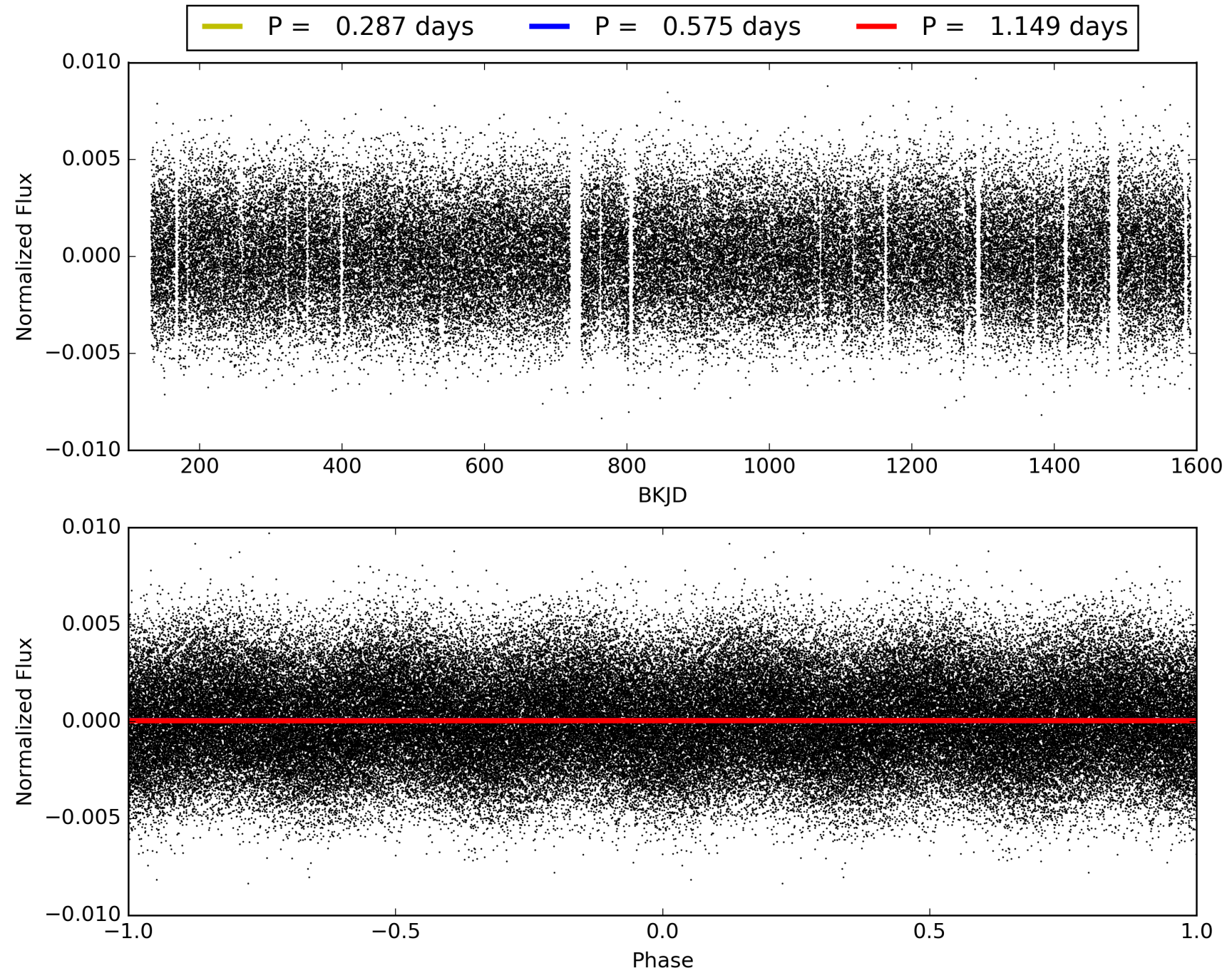
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:33:55 Z

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

TCE 007294135-02, PDC Light Curves

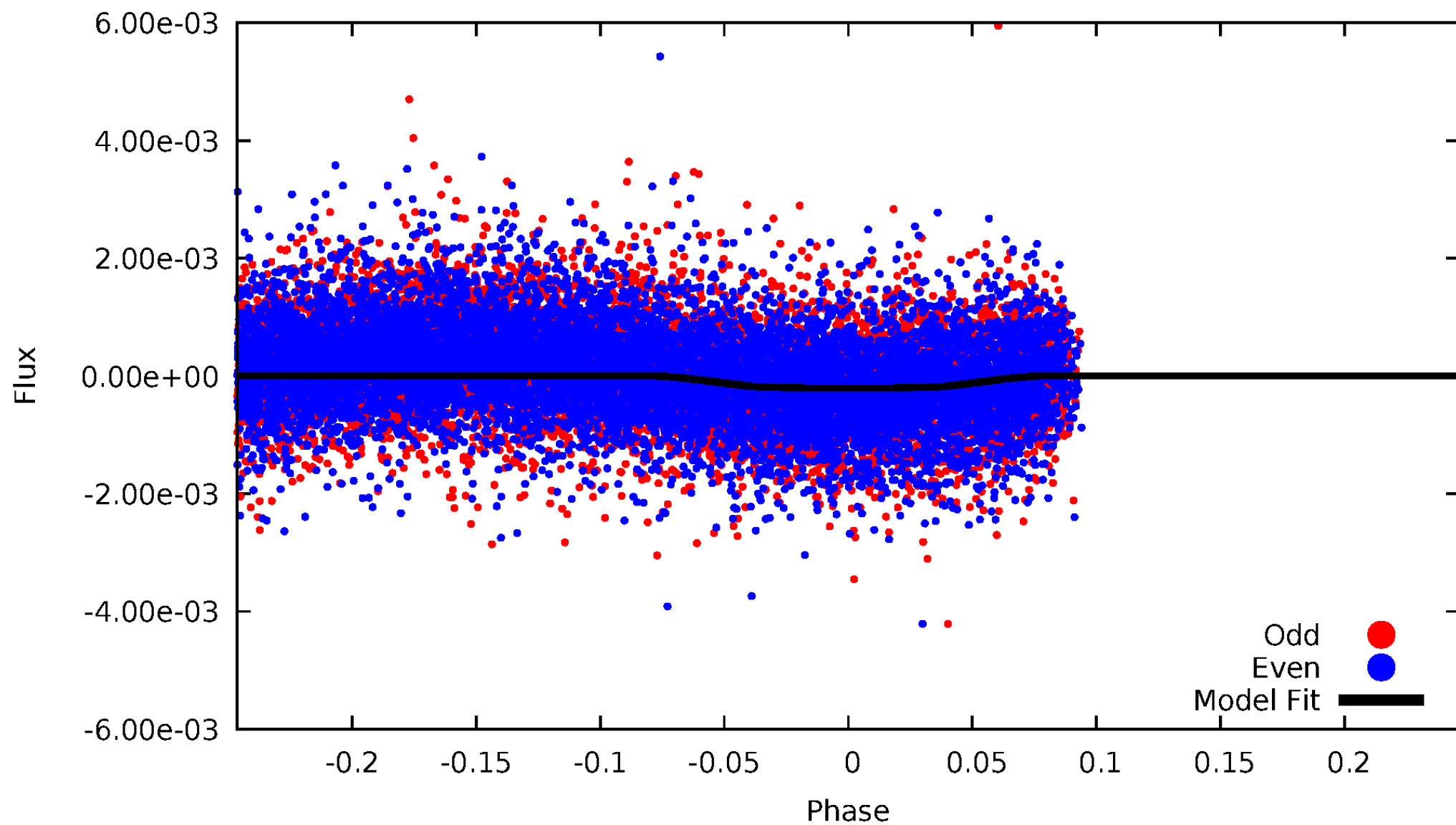


TCE 007294135-02



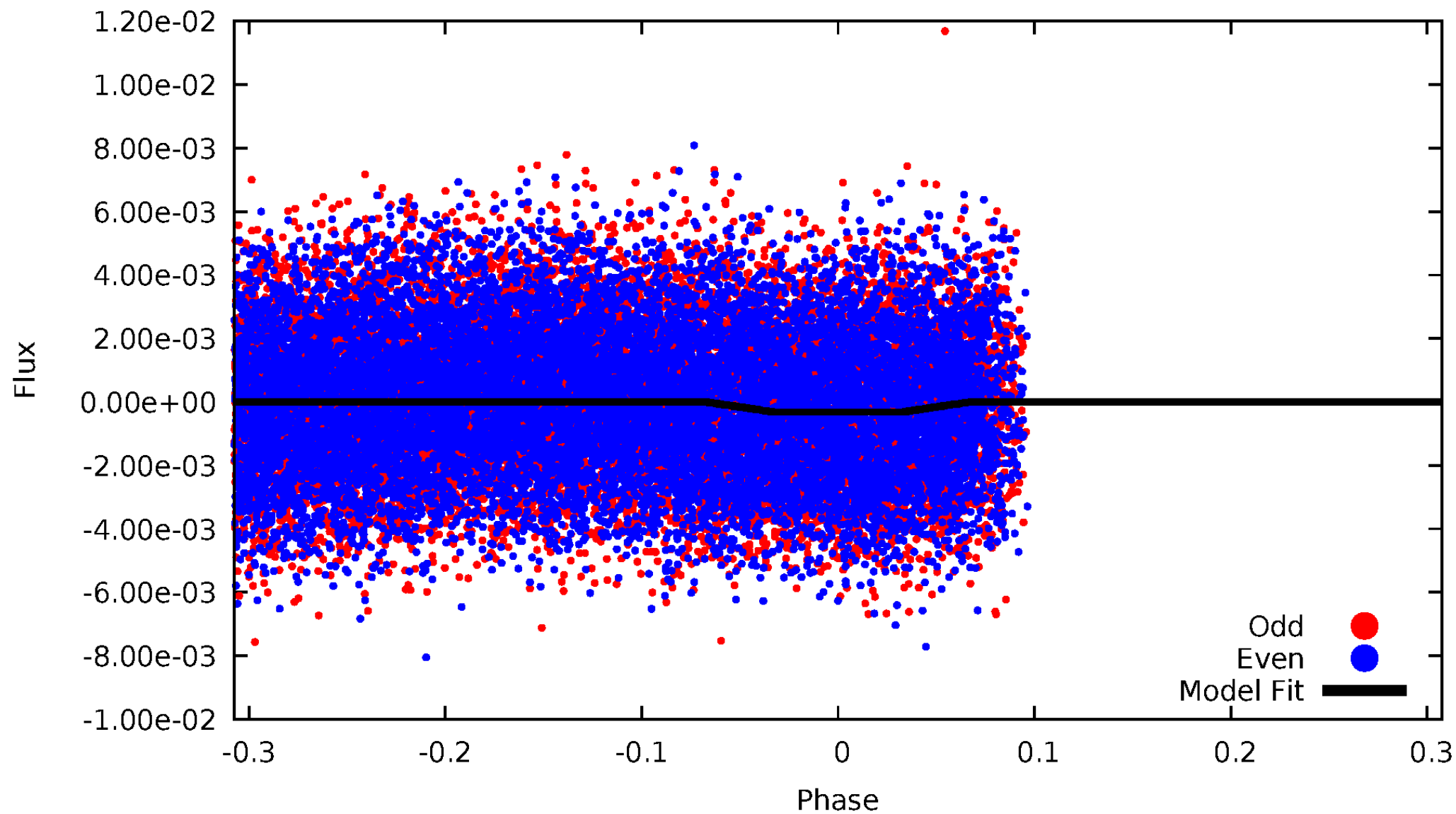
DV Odd/Even

TCE 007294135-02



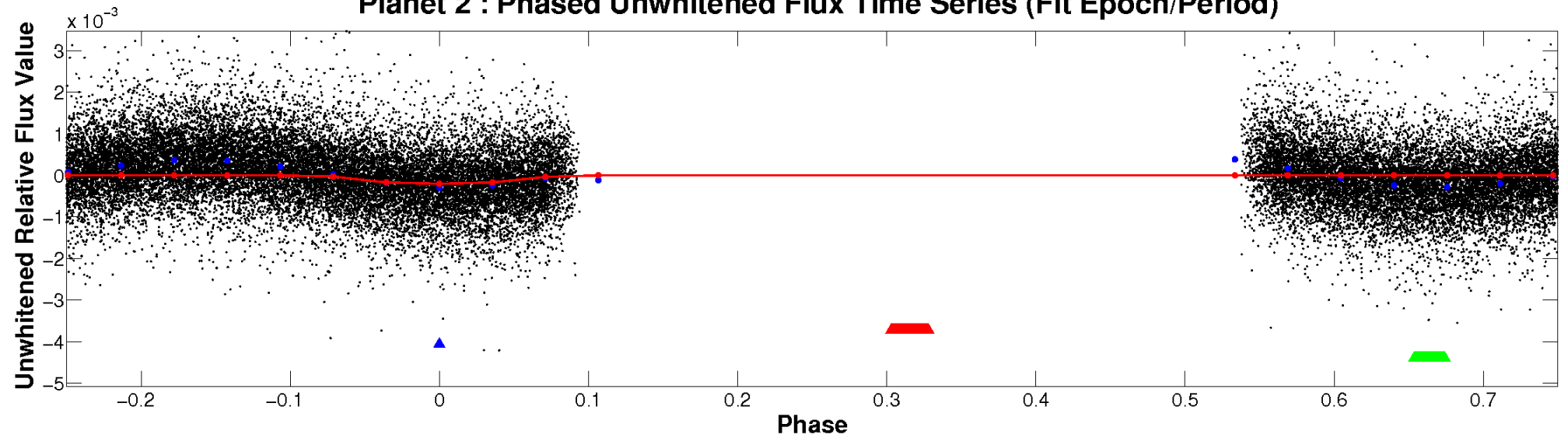
ALT Odd/Even

TCE 007294135-02

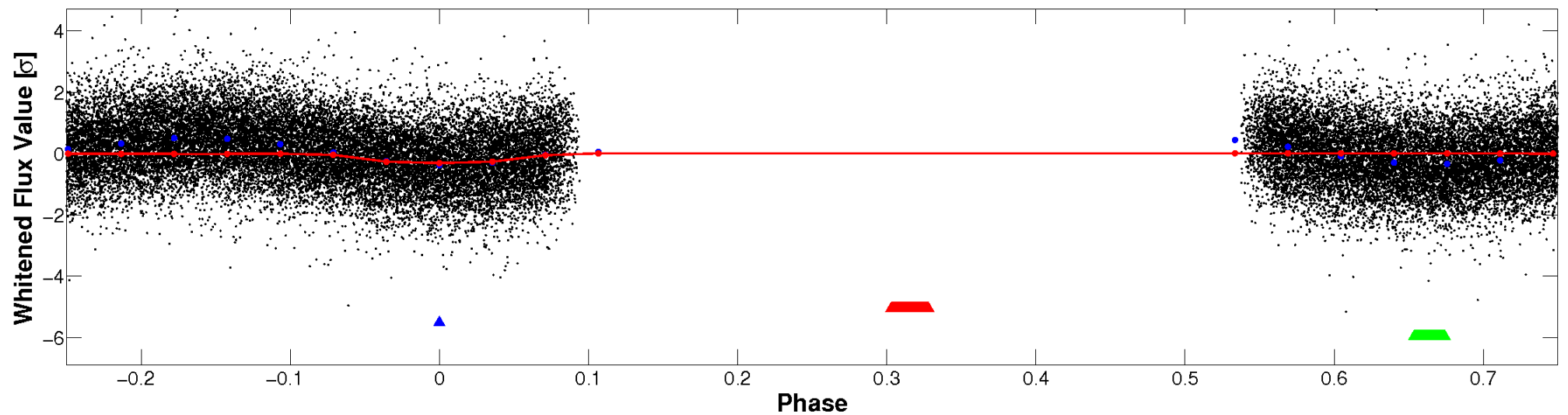


Non-Whitened Vs. Whitened Light Curve

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

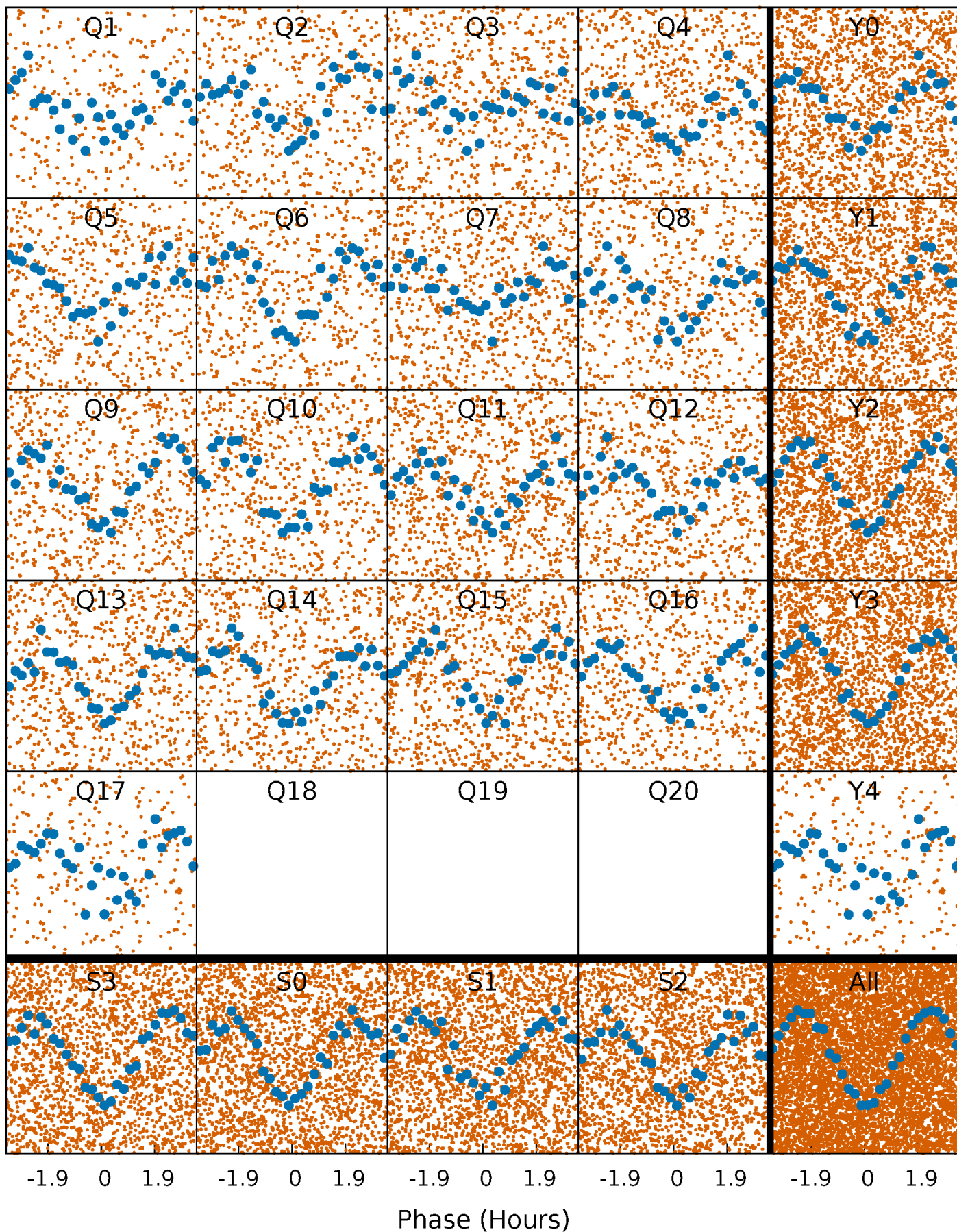


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



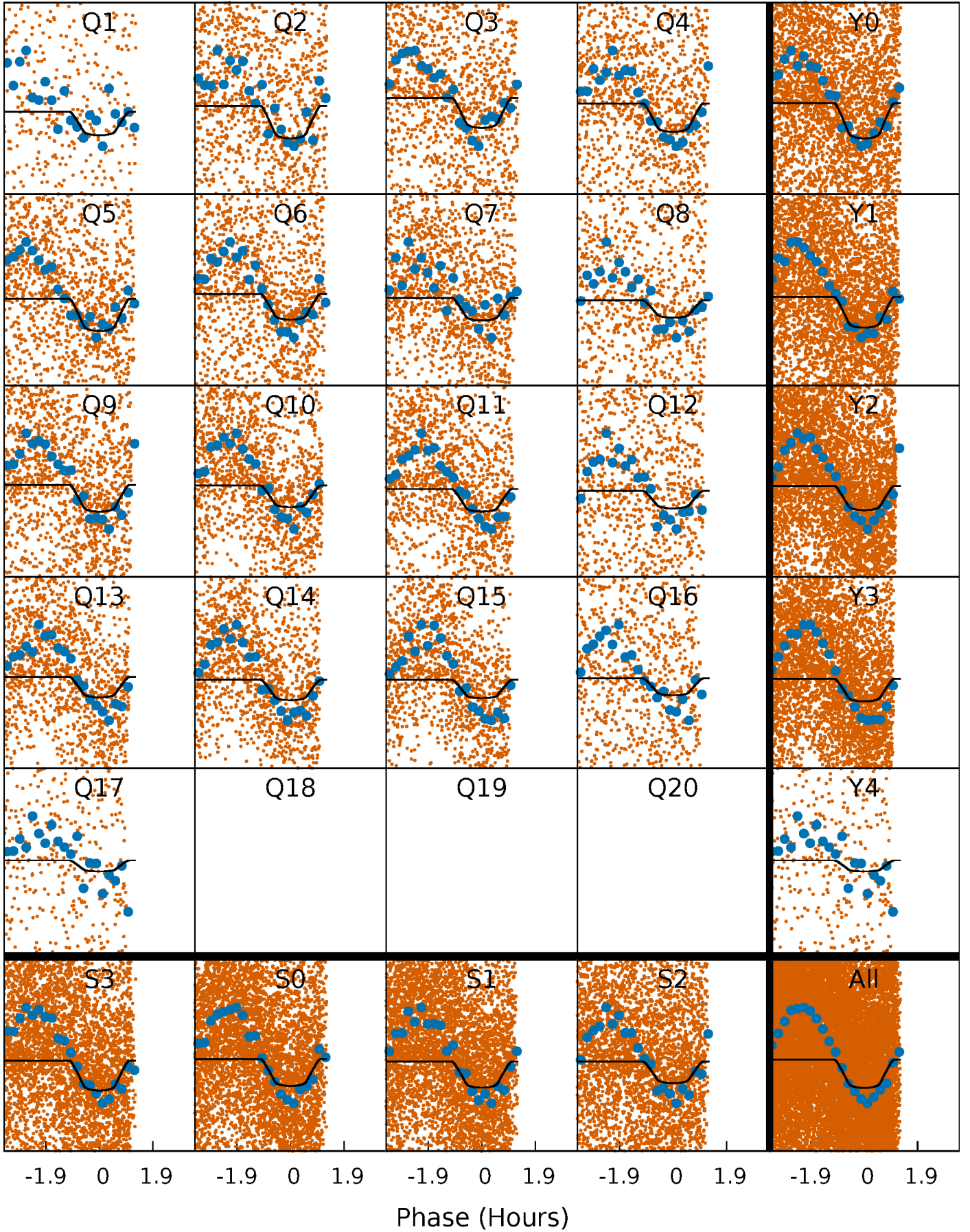
PDC Quarter-Phased Transit Curves

TCE 007294135-02 P= 0.574555 Days $T_0=131.541885$ (BKJD)



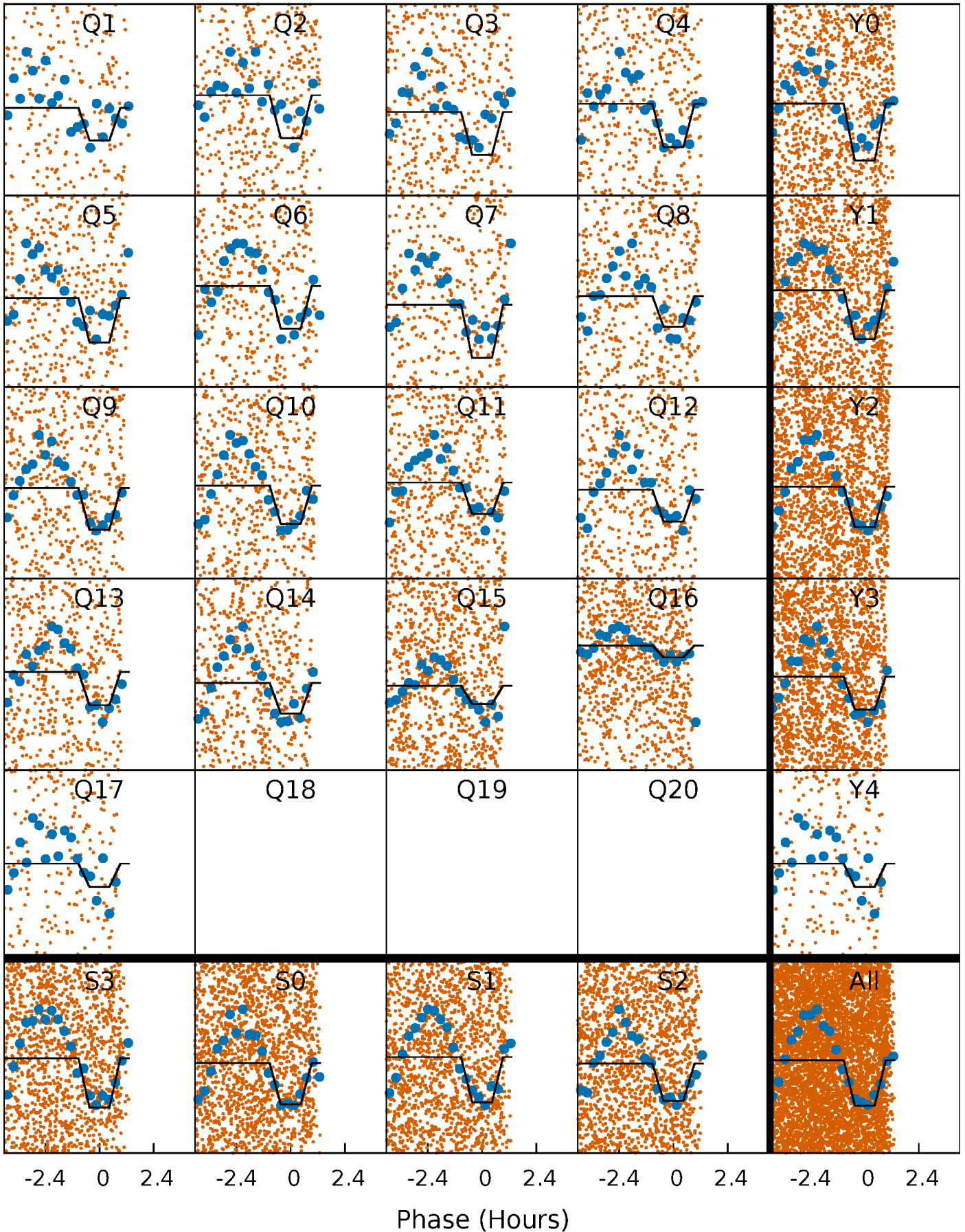
DV Quarter-Phased Transit Curves

TCE 007294135-02 P= 0.574555 Days $T_0=131.541885$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

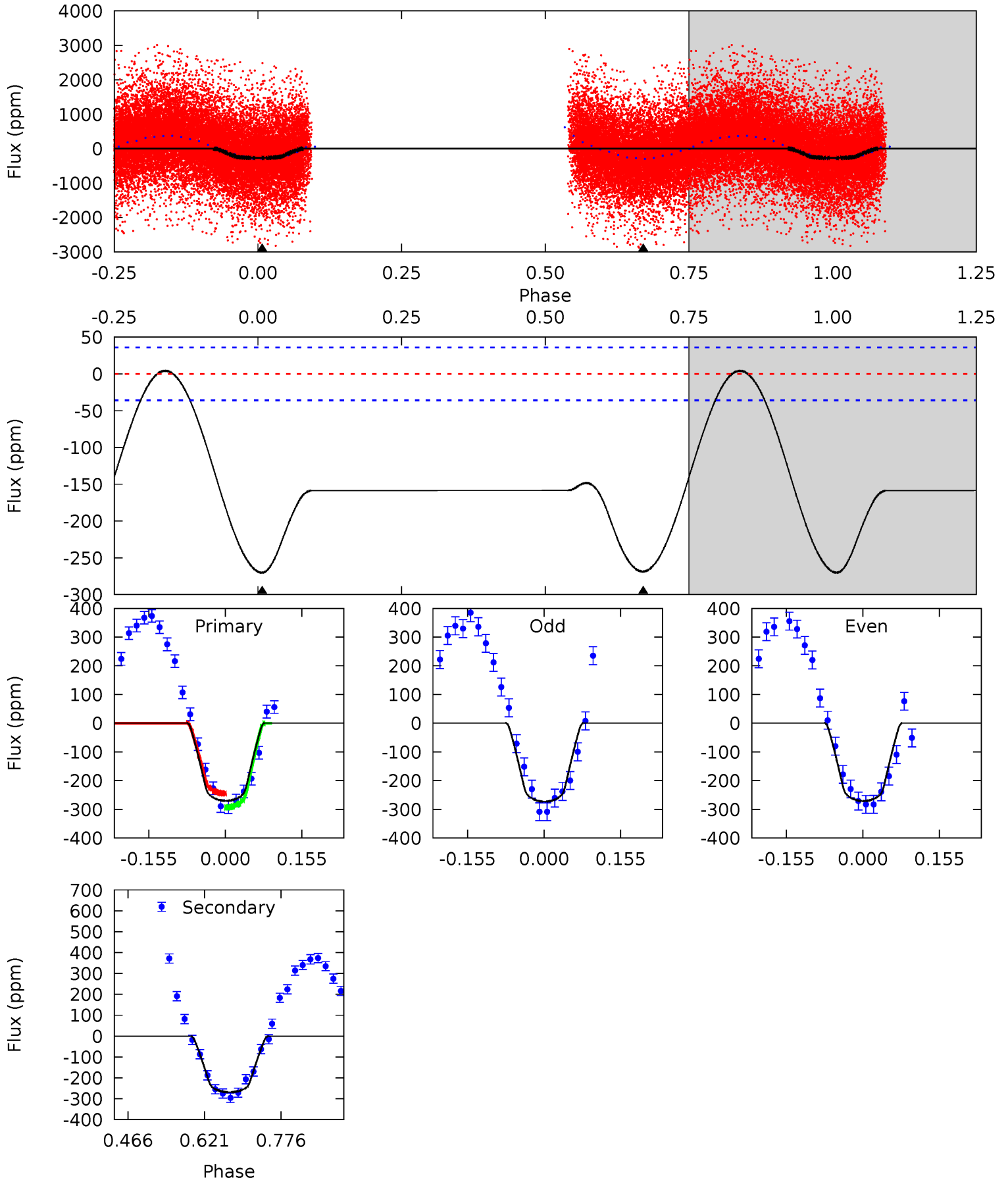
TCE 007294135-02 P= 0.574558 Days $T_0=131.540267$ (BKJD)



DV Model-Shift Uniqueness Test

007294135-02, P = 0.574555 Days, E = 130.967330 Days

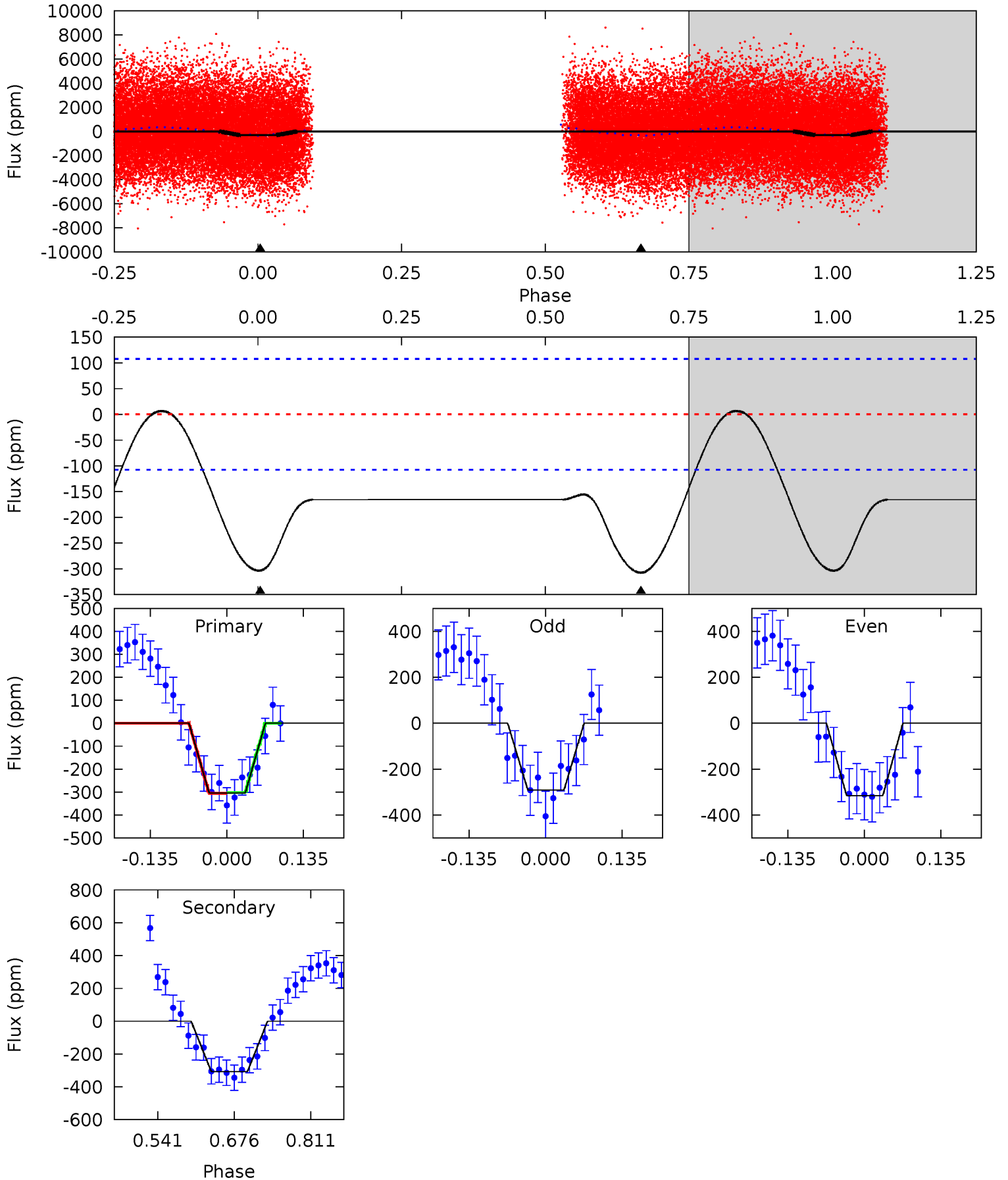
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.7	33.5	0	0	4.47	1.42	0.62	33.7	33.7	33.5	33.5	0.14	1.02	0.02	3.50



Alt Model-Shift Uniqueness Test

007294135-02, P = 0.574558 Days, E = 130.965709 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	12.9	0	0	4.50	1.49	0.48	12.7	12.7	12.9	12.9	0.52	0.73	0.02	0.07



Stellar Parameters For KIC 007294135

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6988^{+194}_{-333}	$4.024^{+0.209}_{-0.171}$	$0.080^{+0.200}_{-0.350}$	$2.039^{+0.586}_{-0.586}$	$1.601^{+0.207}_{-0.311}$	$0.266^{+0.331}_{-0.130}$
	+3%/-5%	+5%/-4%	+250%/-438%	+29%/-29%	+13%/-19%	+125%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007294135-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-269 ± 8	$3.31^{+1.04}_{-0.91}$	4831^{+413}_{-363}	7018^{+1528}_{-886}	$3.323^{+3.091}_{-1.379}$
Alt.	-308 ± 24	$3.97^{+1.07}_{-0.97}$	4860^{+394}_{-399}	6586^{+1083}_{-701}	$2.655^{+1.936}_{-0.993}$

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

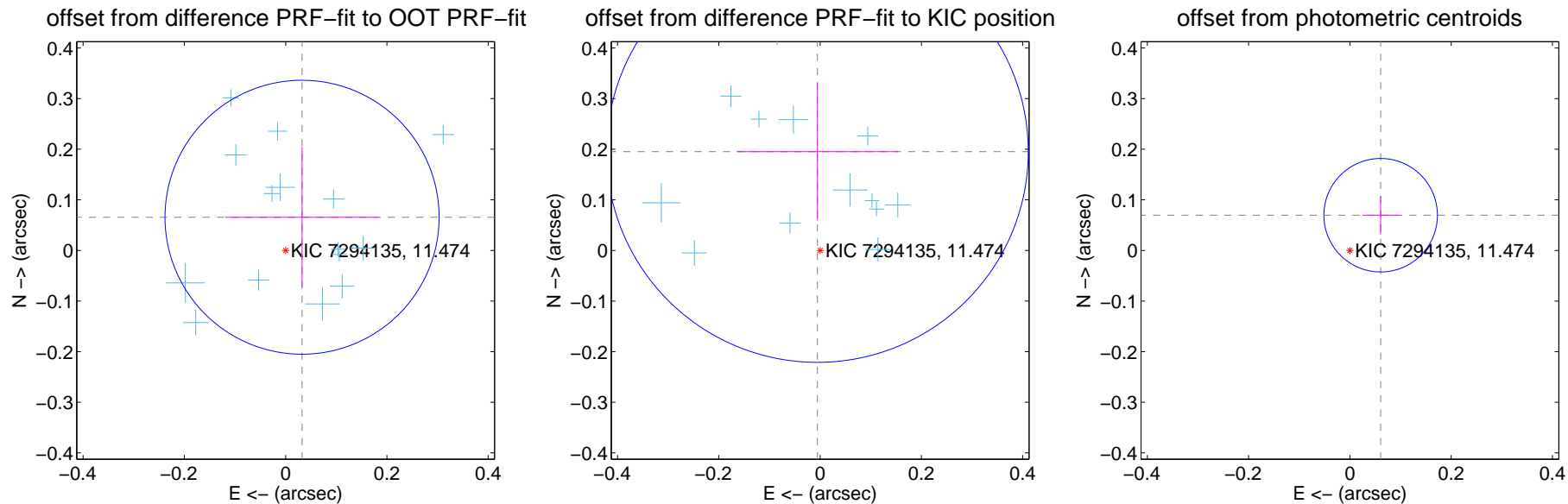
DV Centroid Data

Supplemental centroid analysis for 007294135-02. **Kepler magnitude: 11.47.** Transit SNR 23.23

There are 17 quarters with good PRF difference image offsets

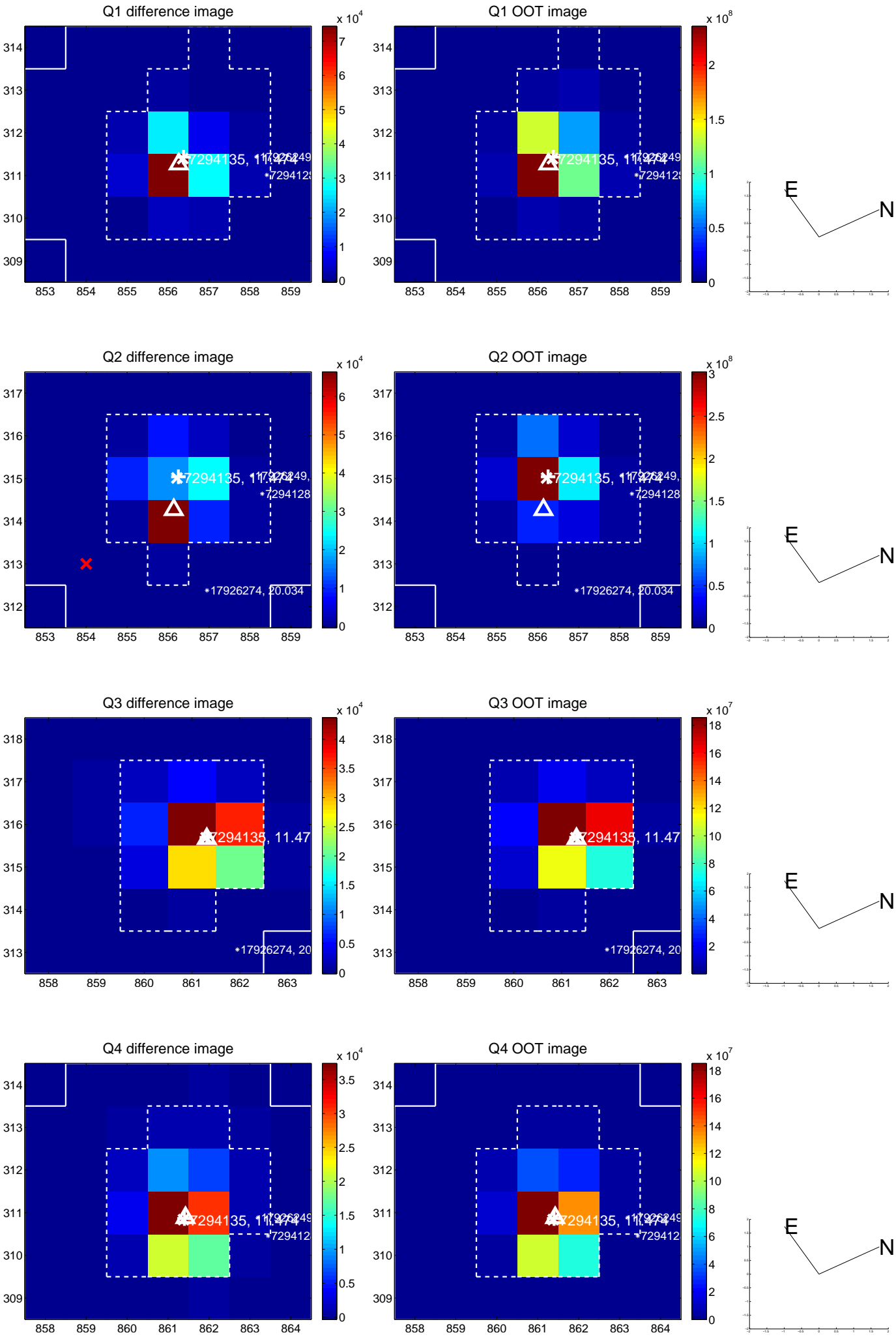
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.073 ± 0.090	0.81	-0.032 ± 0.152	0.066 ± 0.139
PRF-fit source offset from KIC position	0.195 ± 0.139	1.41	0.005 ± 0.159	0.195 ± 0.136
photometric centroid source offset	0.09 ± 0.04	2.47	-0.06 ± 0.04	0.07 ± 0.04

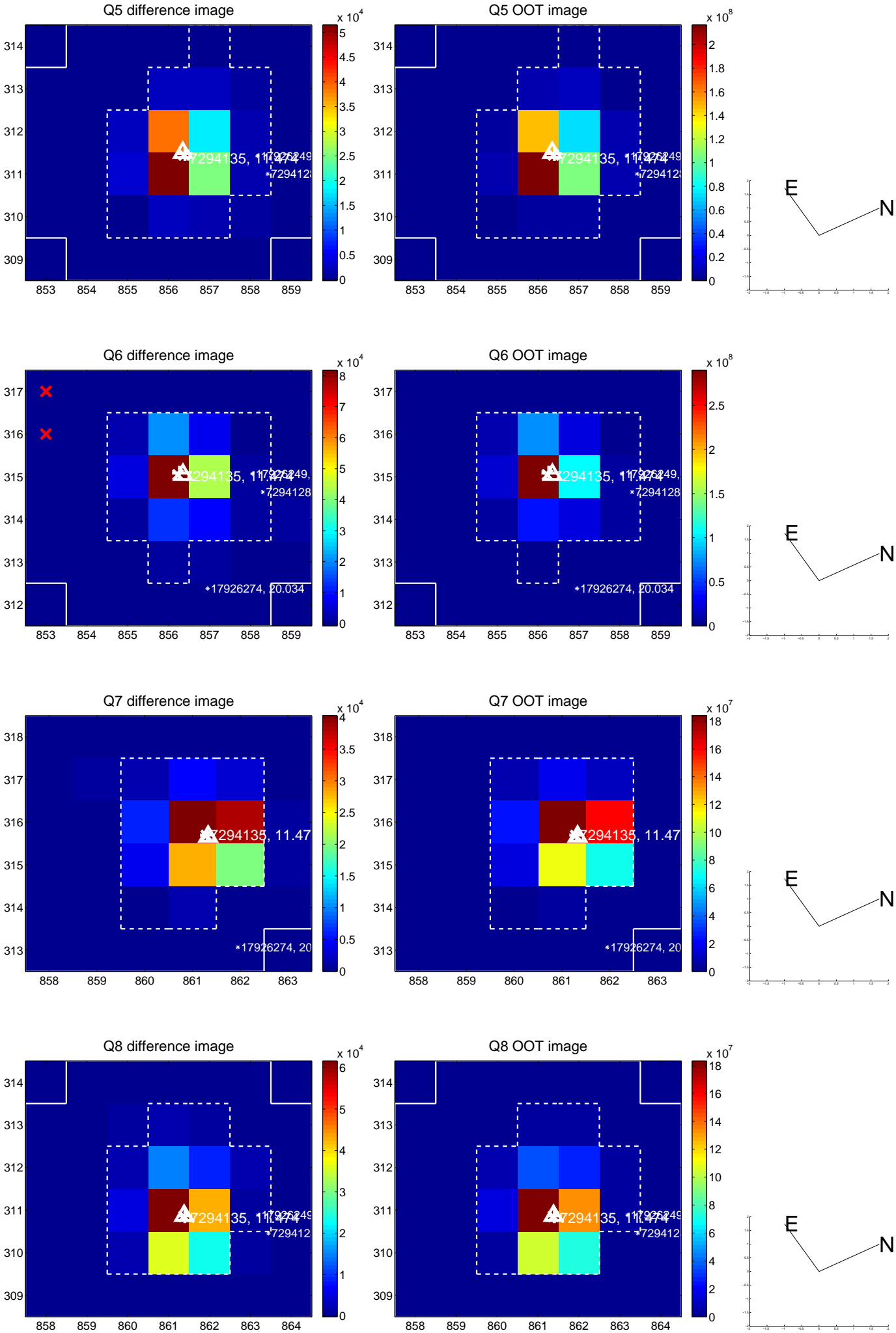


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

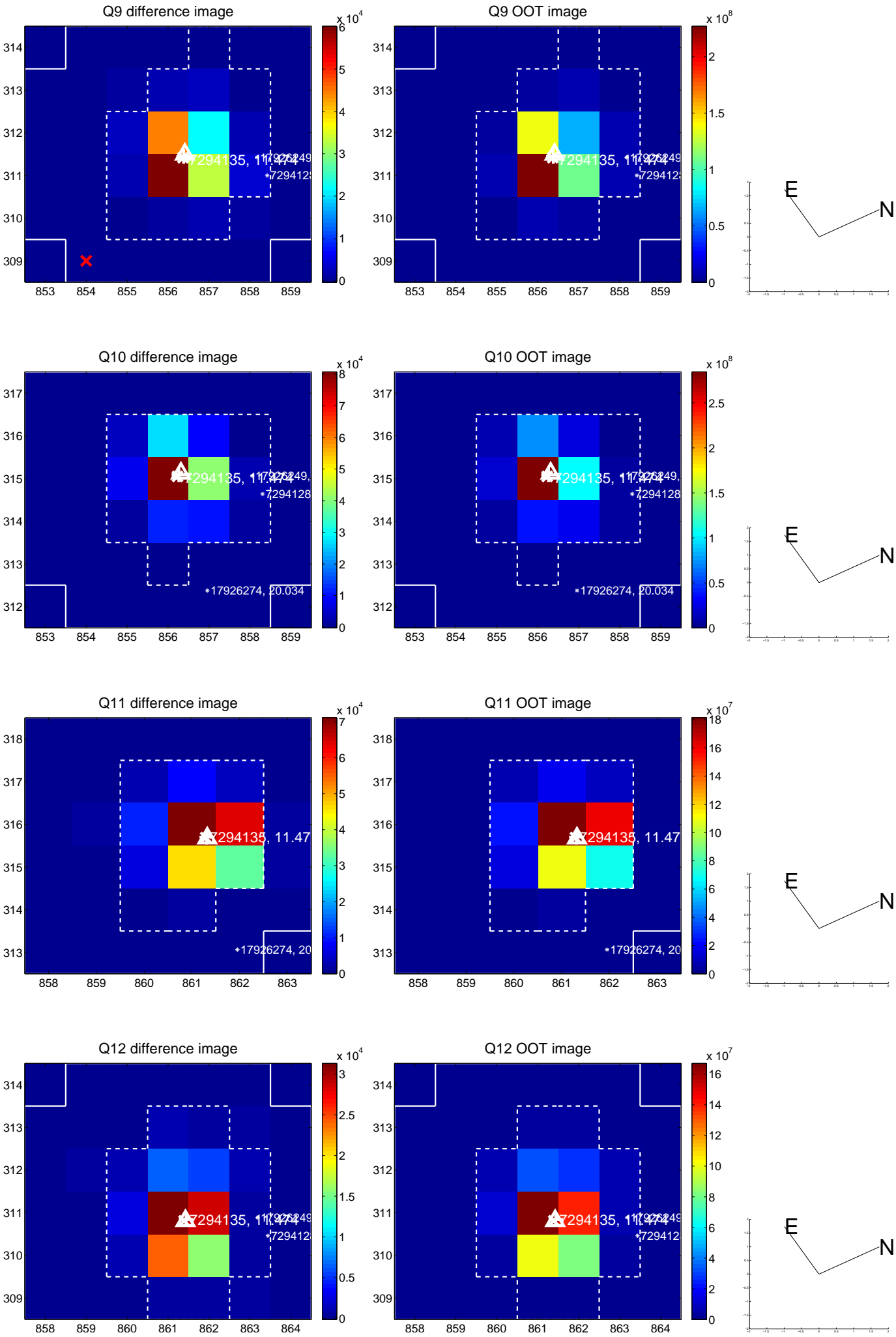
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



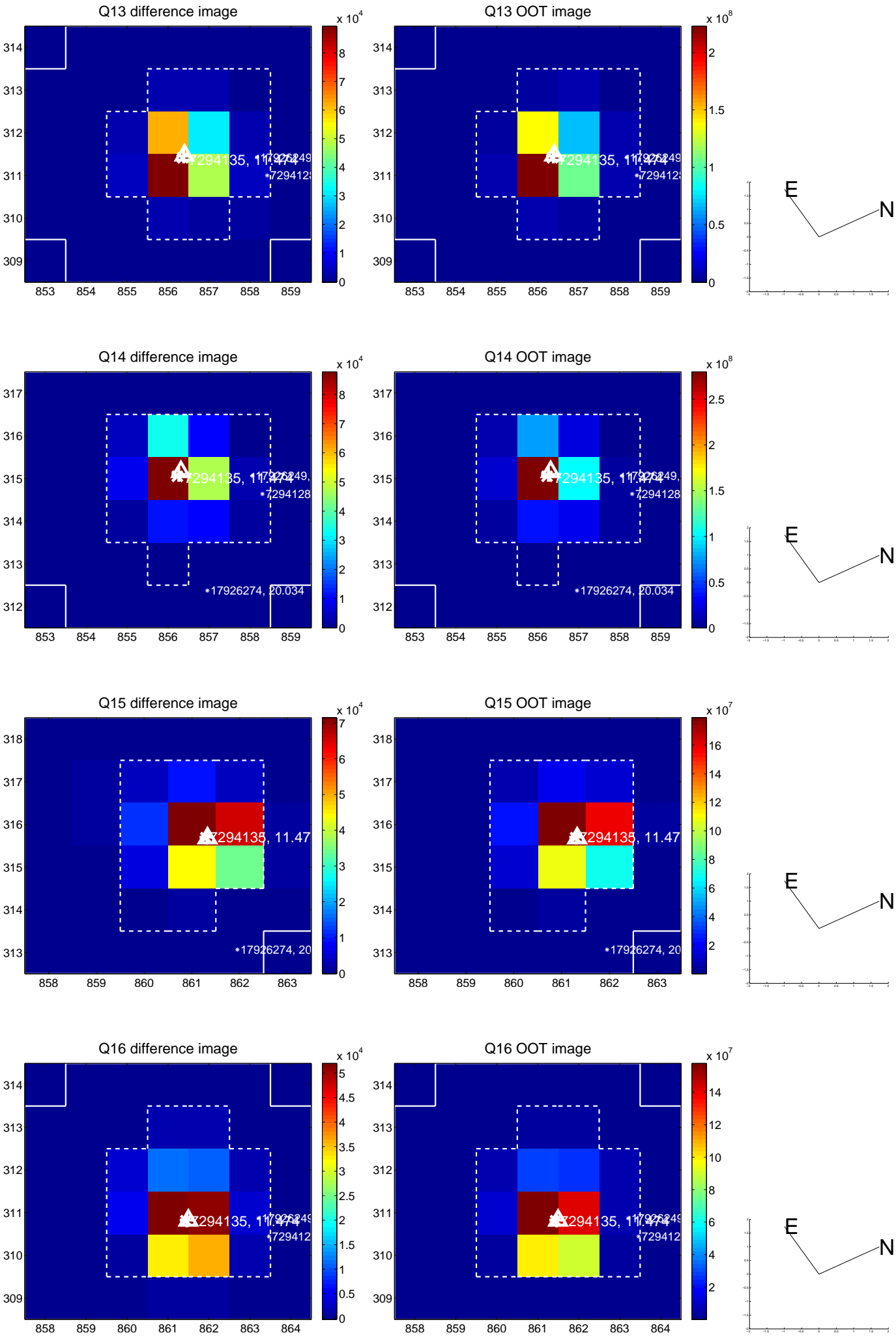
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



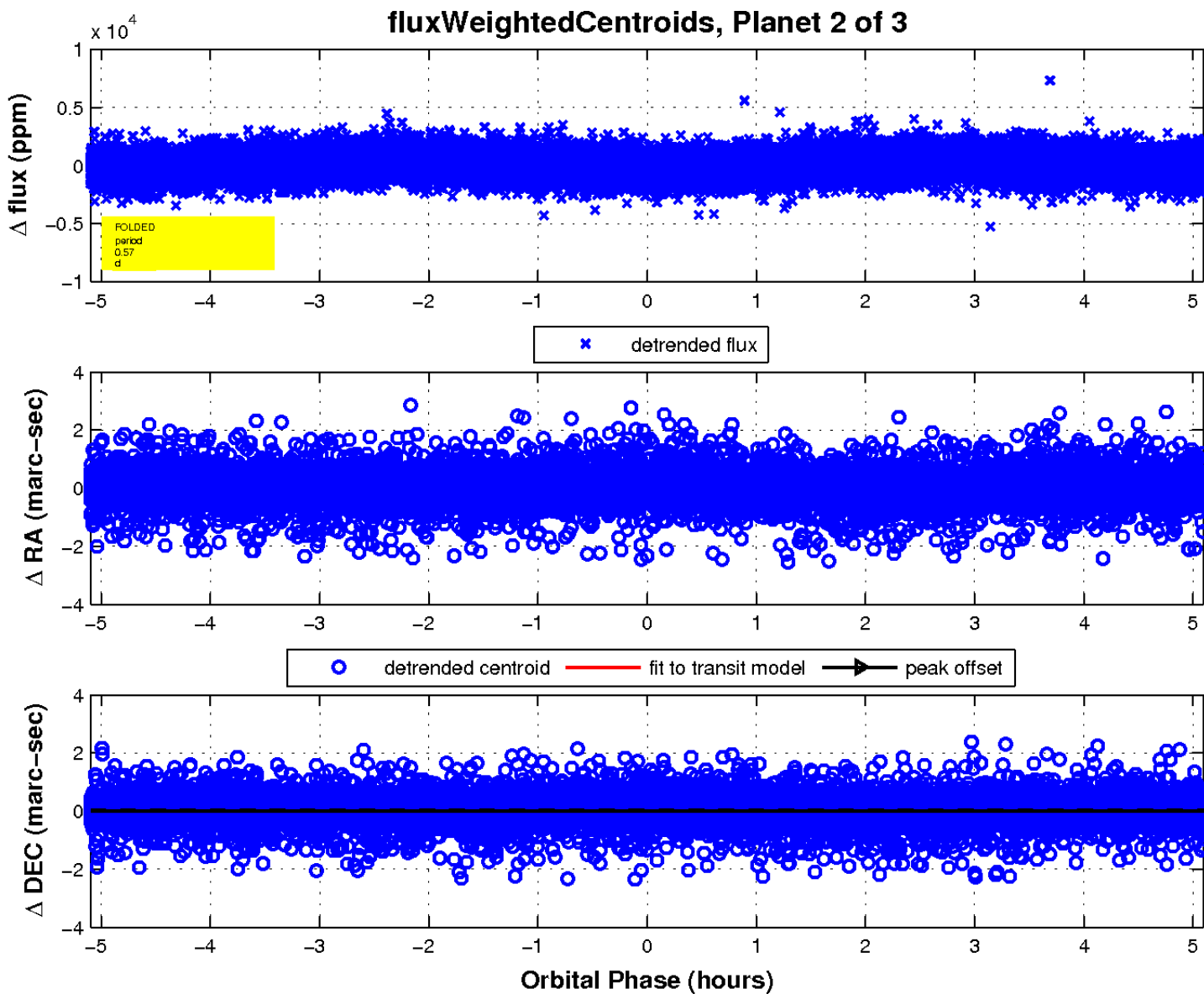
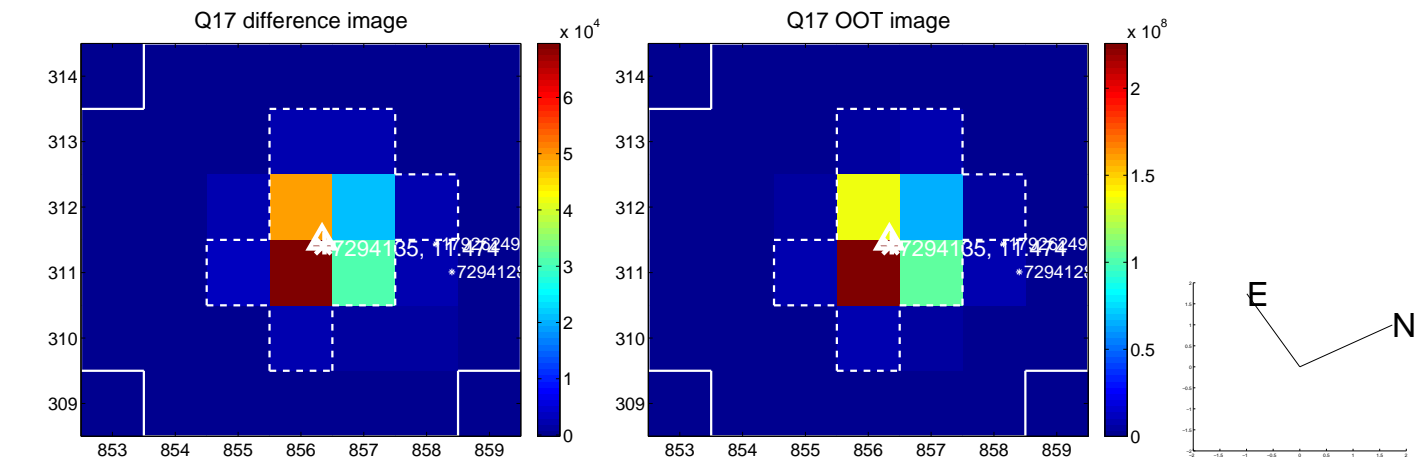
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

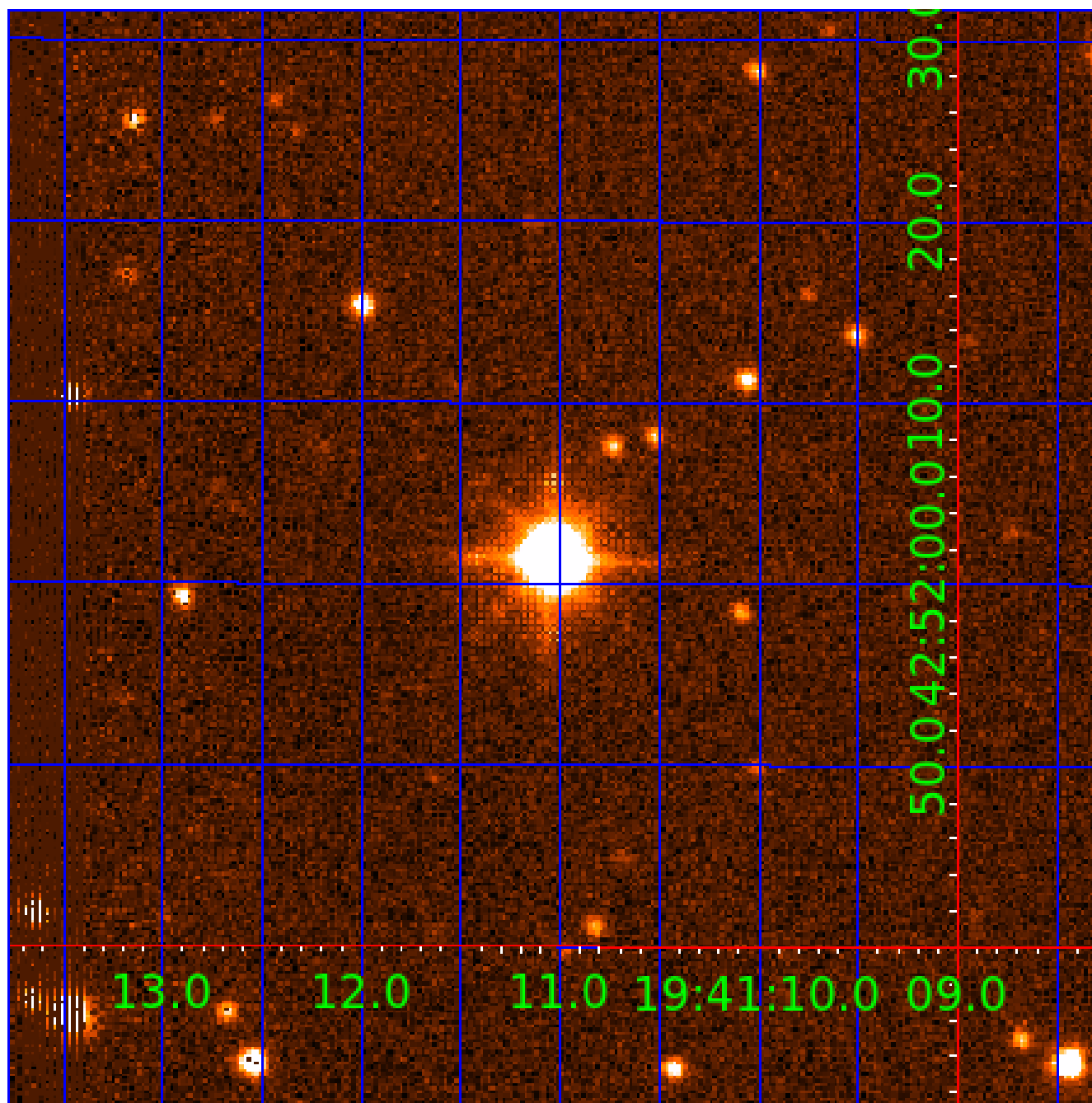


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007294135

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})
007294135-01	OBS	No	0.574550	131.730298	206.5	1.979	22.3	23.9	2.04	6988	3.41	35438.93
007294135-02	OBS	No	0.574555	131.541885	202.8	1.699	21.3	23.2	2.04	6988	3.38	35438.46
007294135-03	OBS	No	0.574560	131.917427	111.4	1.999	23.7	15.5	2.04	6988	2.18	35438.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007294135-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
007294135-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007294135-03	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

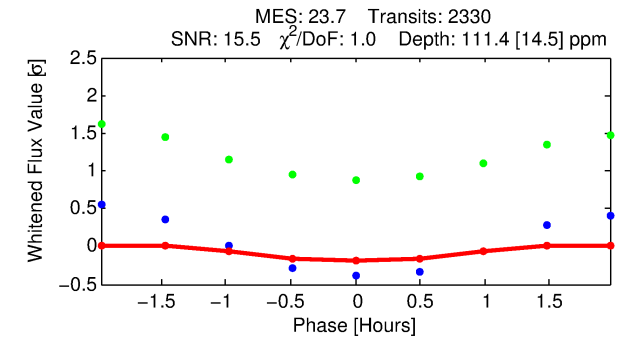
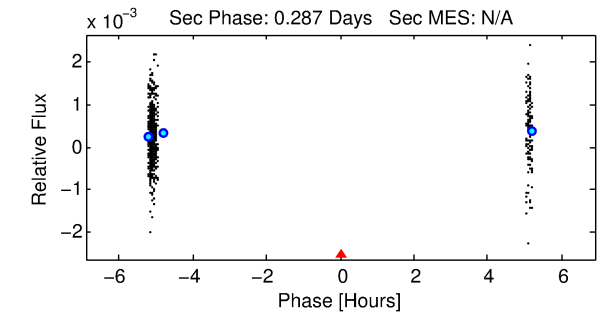
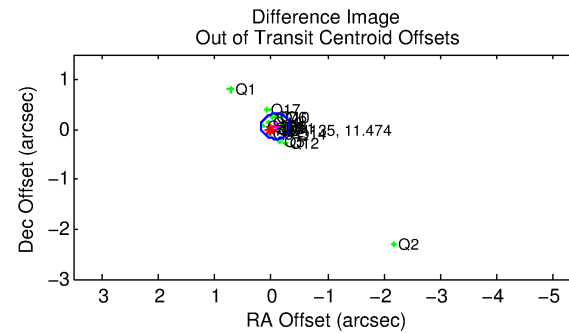
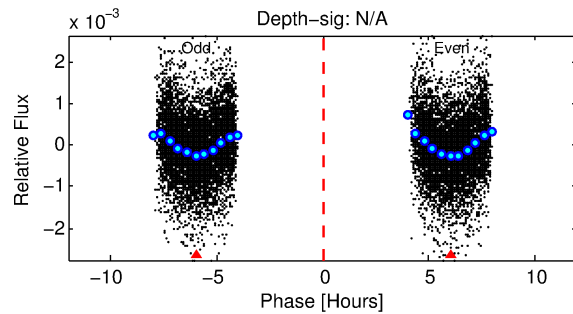
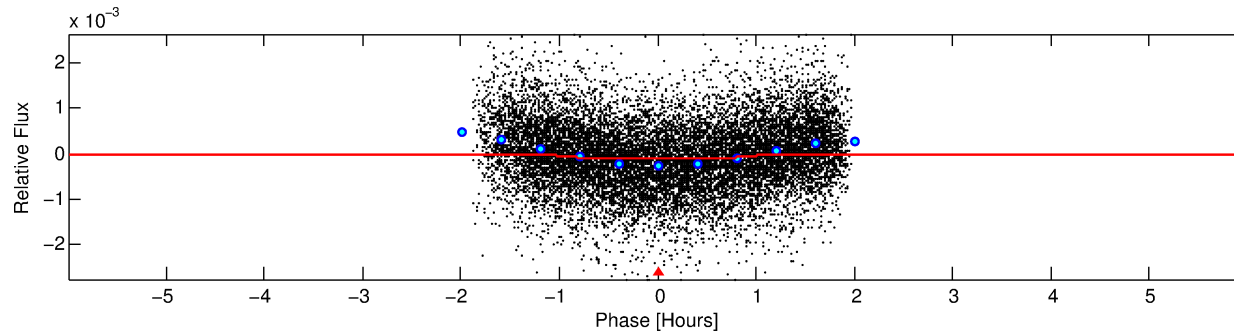
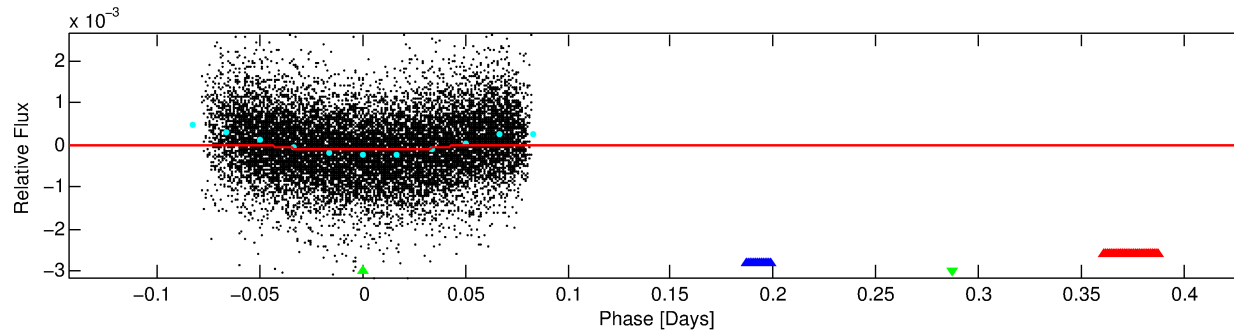
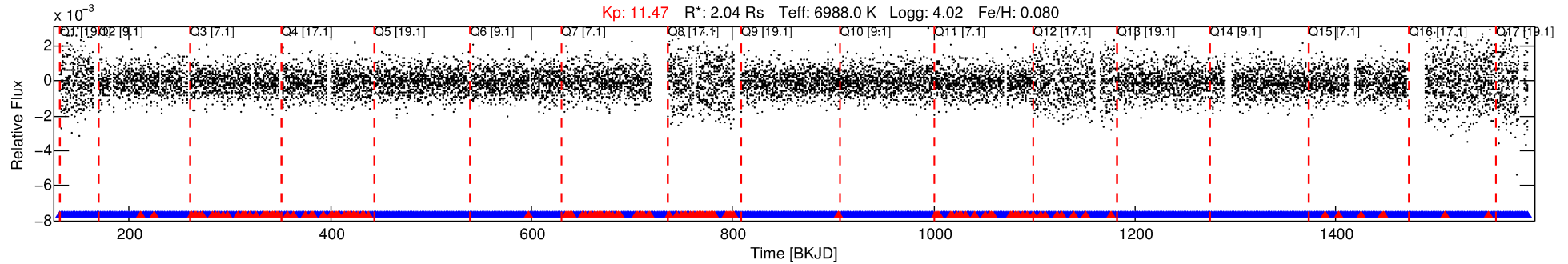
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007294135-03

No Significant Match Found

DV One-Page Summary

KIC: 7294135 Candidate: 3 of 3 Period: 0.575 d



DV Fit Results:

Period = 0.57456 [0.00001] d
Epoch = 131.9174 [0.0021] BKJD
 $R_p/R^* = 0.0098$ [0.0085]
 $a/R^* = 2.29$ [9.00]
 $b = 0.10$ [48.49]
 $S_{\text{eff}} = 35438.08$ [14865.95]
 $T_{\text{eq}} = 3499$ [367] K
 $R_p = 2.18$ [1.98] R_e
 $a = 0.0158$ [0.0040] AU

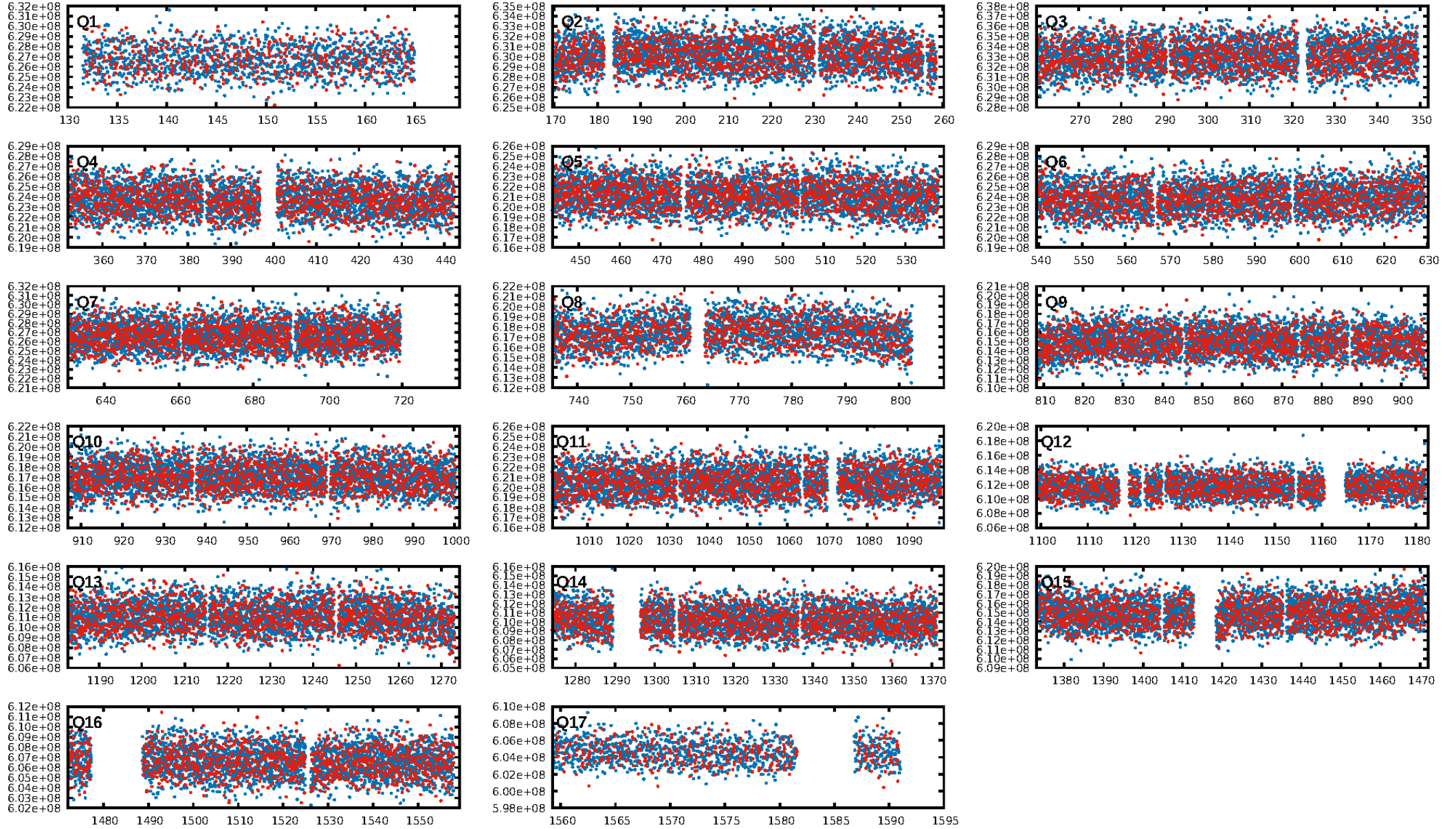
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.93 [2068/2226]
GhostDiagnostic-chr: 2.305
Centroid-sig: N/A
Centroid-so: 0.019 arcsec [0.32σ]
OotOffset-rm: 0.101 arcsec [1.20σ]
KicOffset-rm: 0.197 arcsec [1.45σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

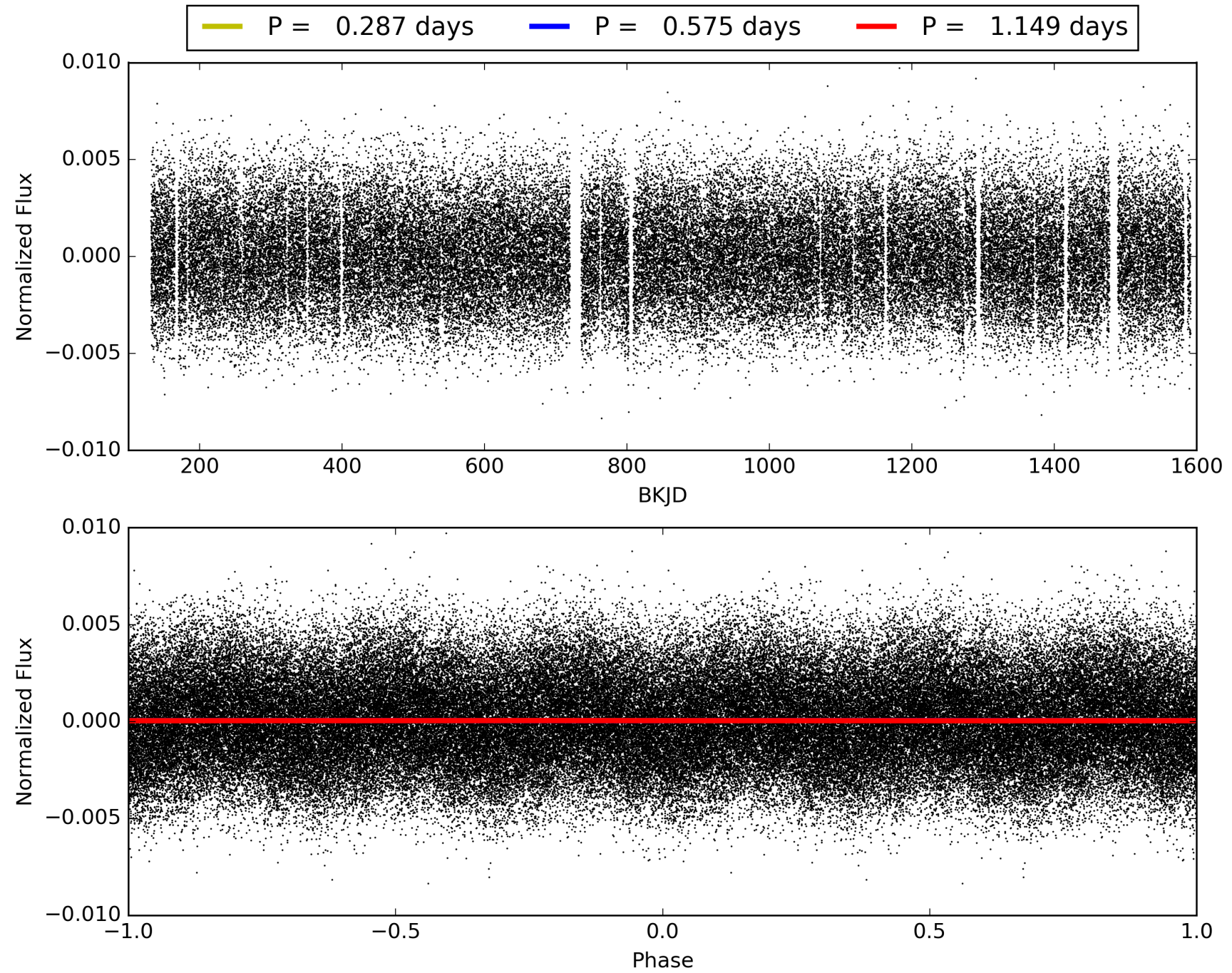
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:34:04 Z

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

TCE 007294135-03, PDC Light Curves

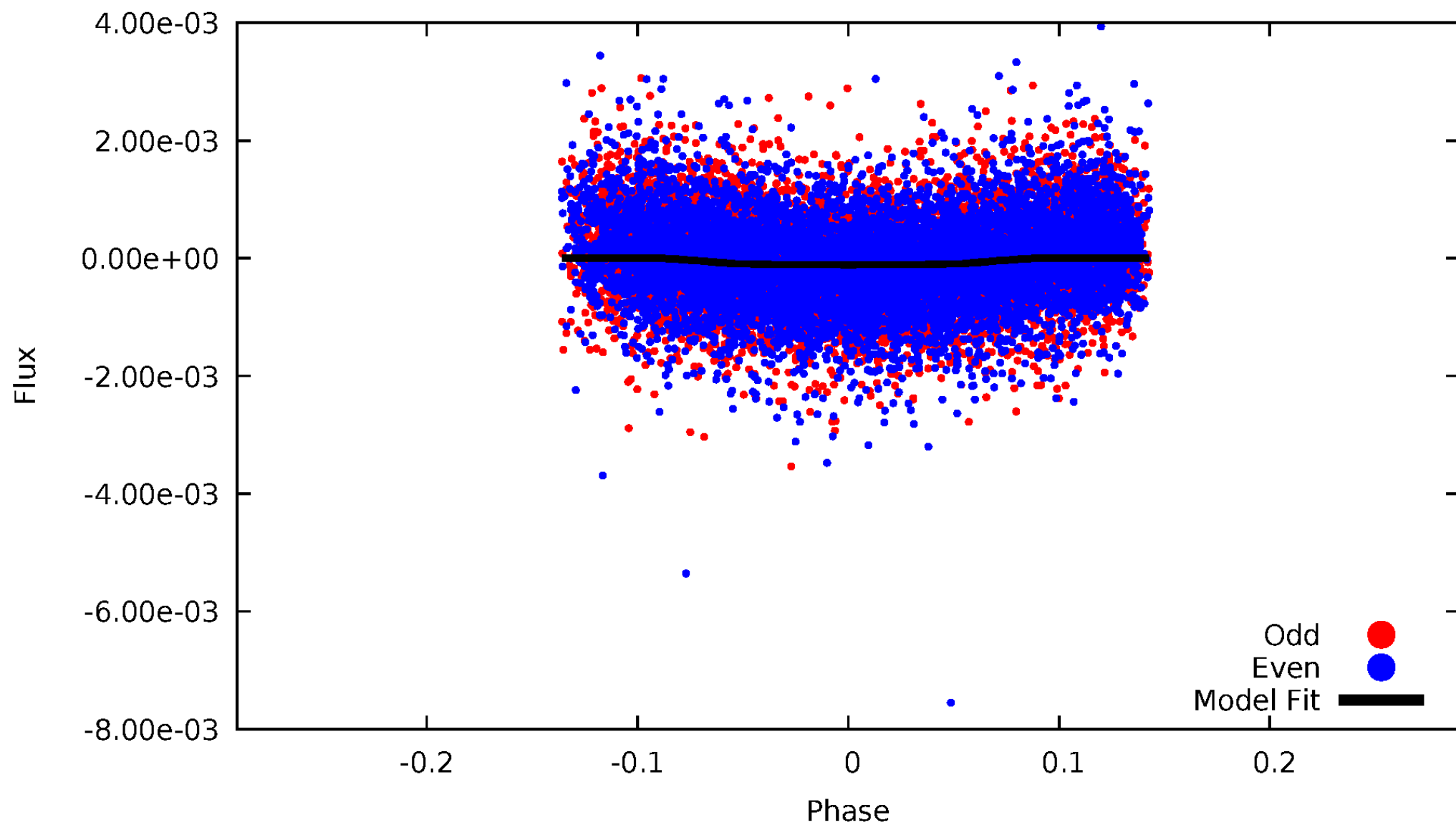


TCE 007294135-03



DV Odd/Even

TCE 007294135-03

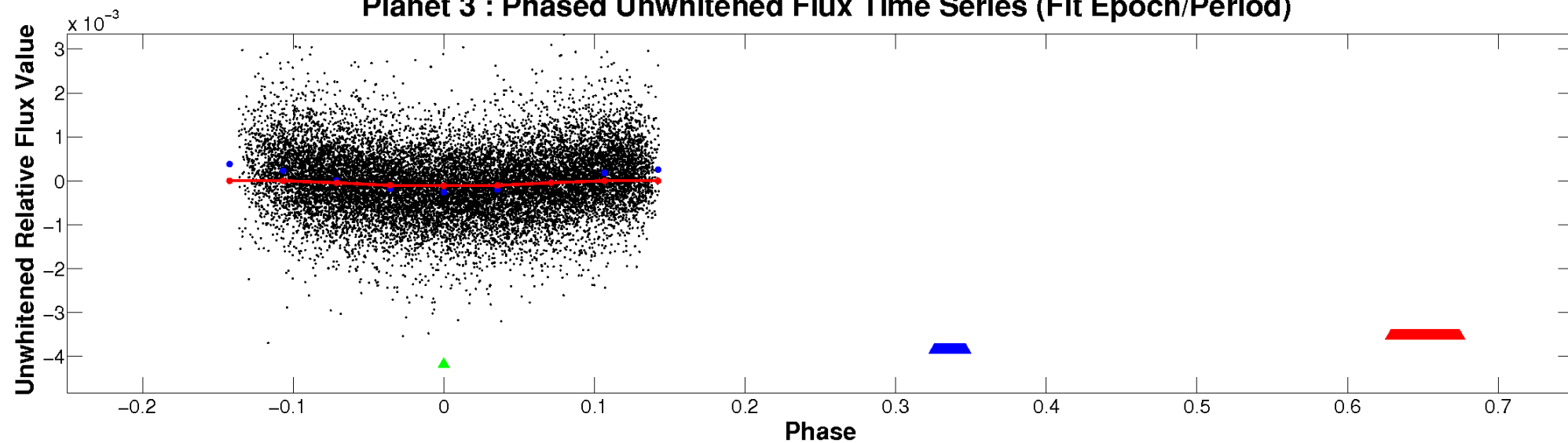


ALT Odd/Even

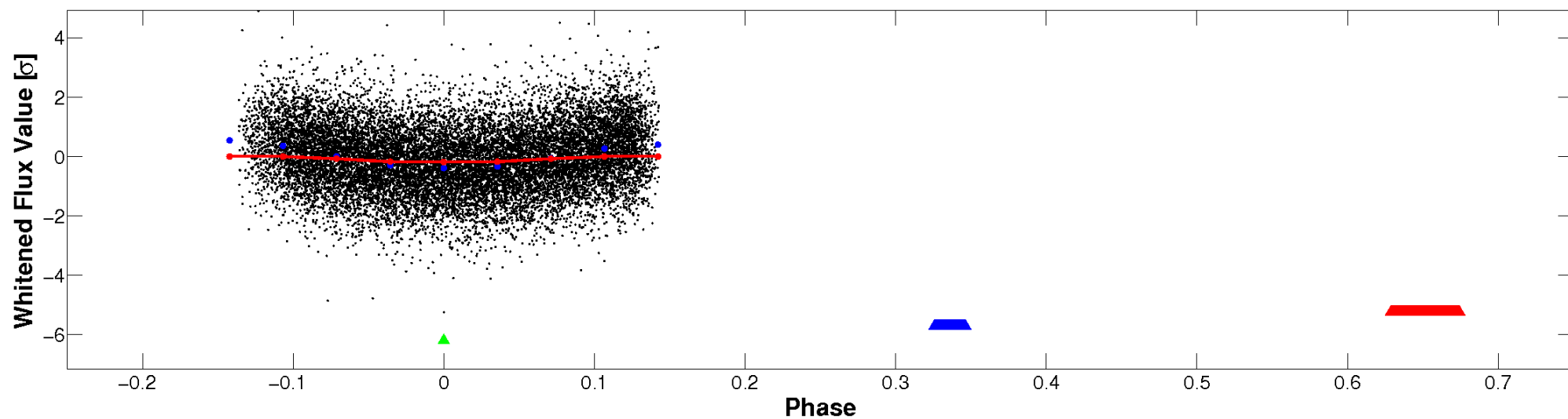
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

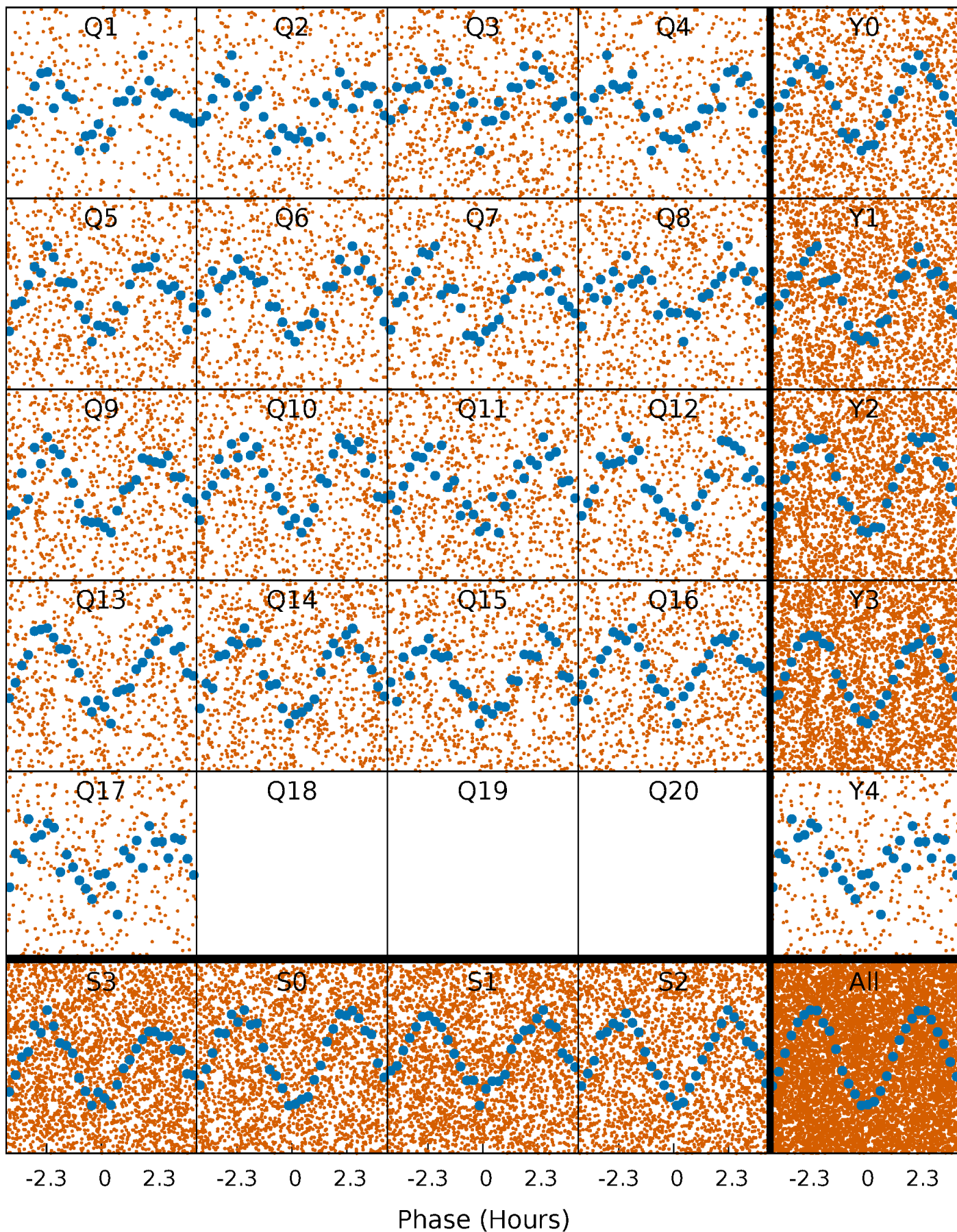


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



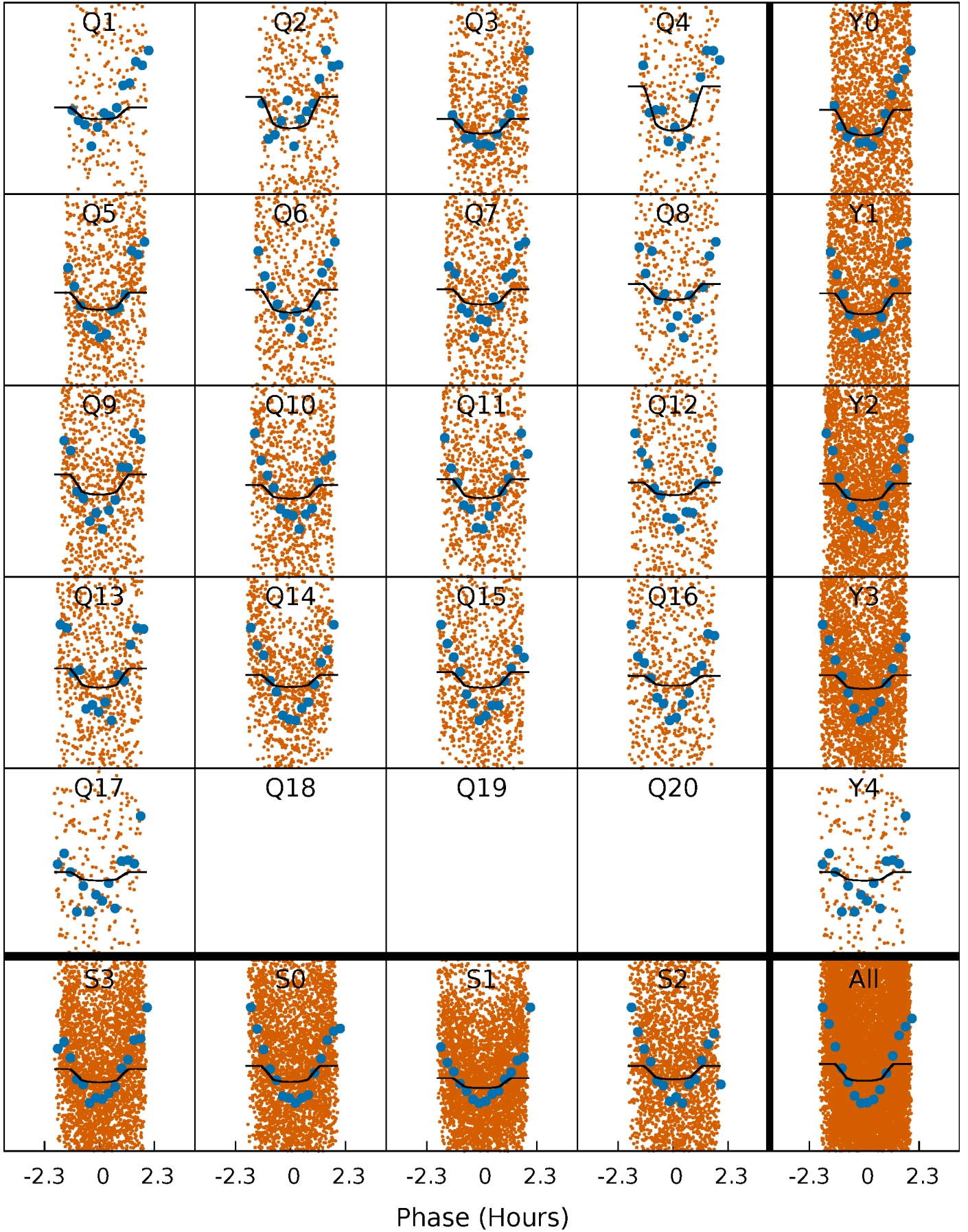
PDC Quarter-Phased Transit Curves

TCE 007294135-03 P= 0.574560 Days $T_0=131.917427$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007294135-03 P= 0.574560 Days $T_0=131.917427$ (BKJD)

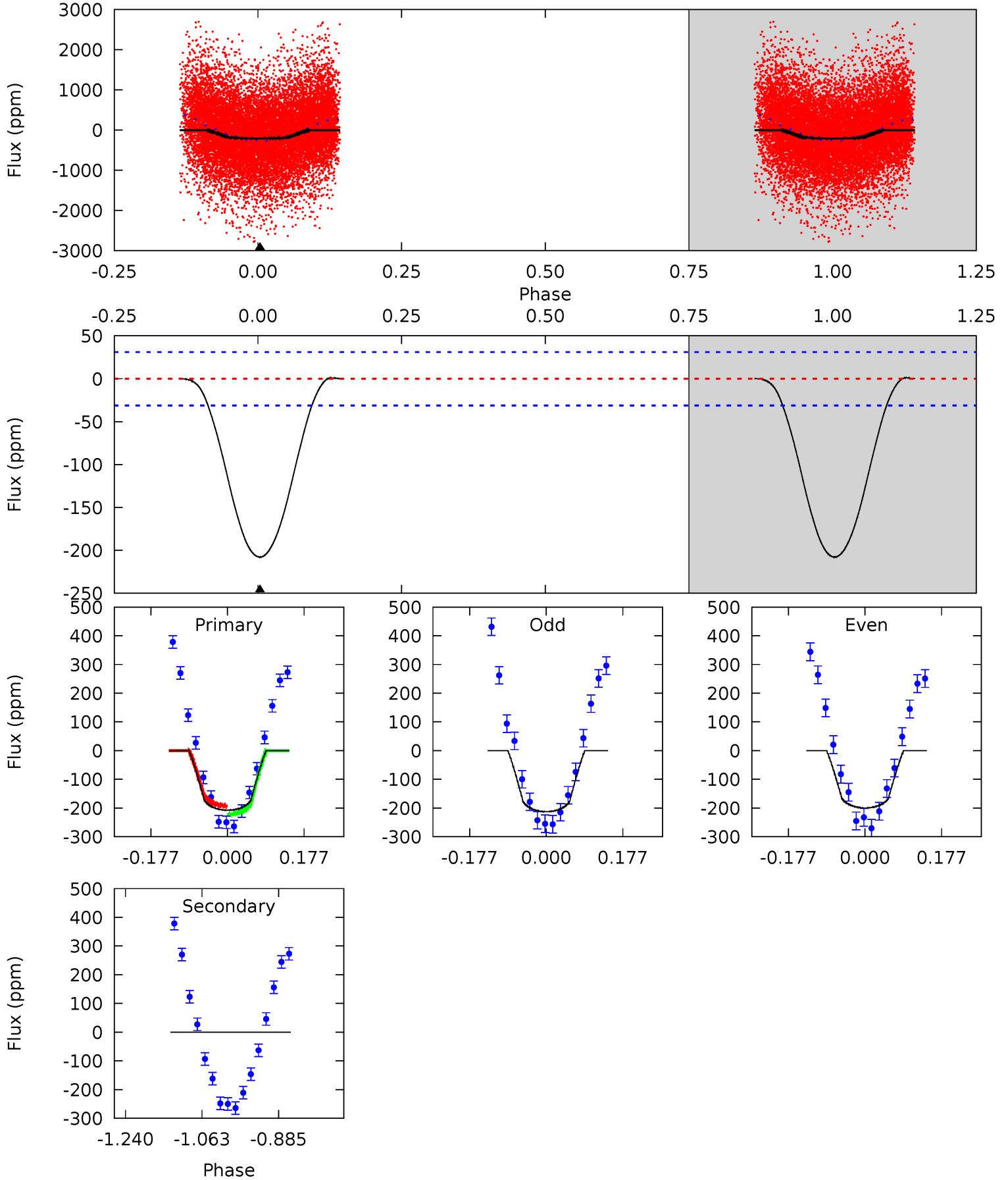


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007294135-03, P = 0.574560 Days, E = 131.342867 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.7	0	0	0	4.44	1.35	0.21	29.7	29.7	0	0	0.92	1.03	0.01	2.18



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007294135

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6988^{+194}_{-333}	$4.024^{+0.209}_{-0.171}$	$0.080^{+0.200}_{-0.350}$	$2.039^{+0.586}_{-0.586}$	$1.601^{+0.207}_{-0.311}$	$0.266^{+0.331}_{-0.130}$
	+3%/-5%	+5%/-4%	+250%/-438%	+29%/-29%	+13%/-19%	+125%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007294135-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 7	$2.48^{+1.78}_{-1.45}$	4859^{+347}_{-443}	-4185^{+1131}_{-542}	$0.003^{+0.250}_{-0.212}$
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 $A_{\text{obs}} \gg 1.0$

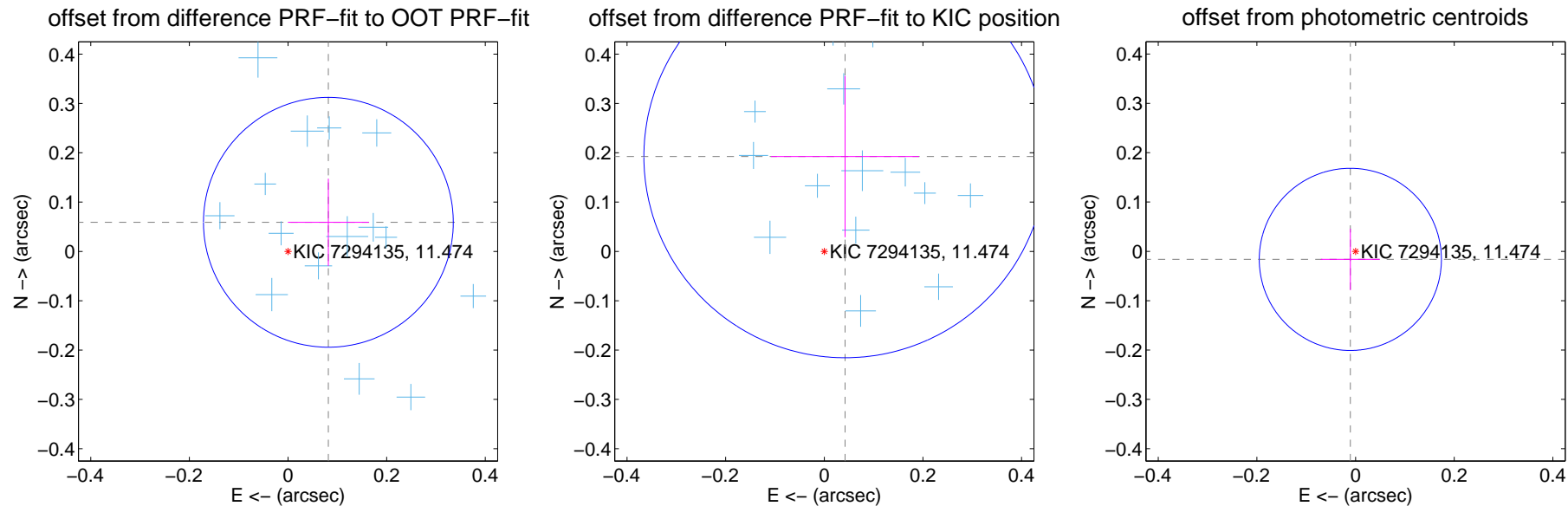
DV Centroid Data

Supplemental centroid analysis for 007294135-03. **Kepler magnitude: 11.47.** Transit SNR 15.53

There are 17 quarters with good PRF difference image offsets

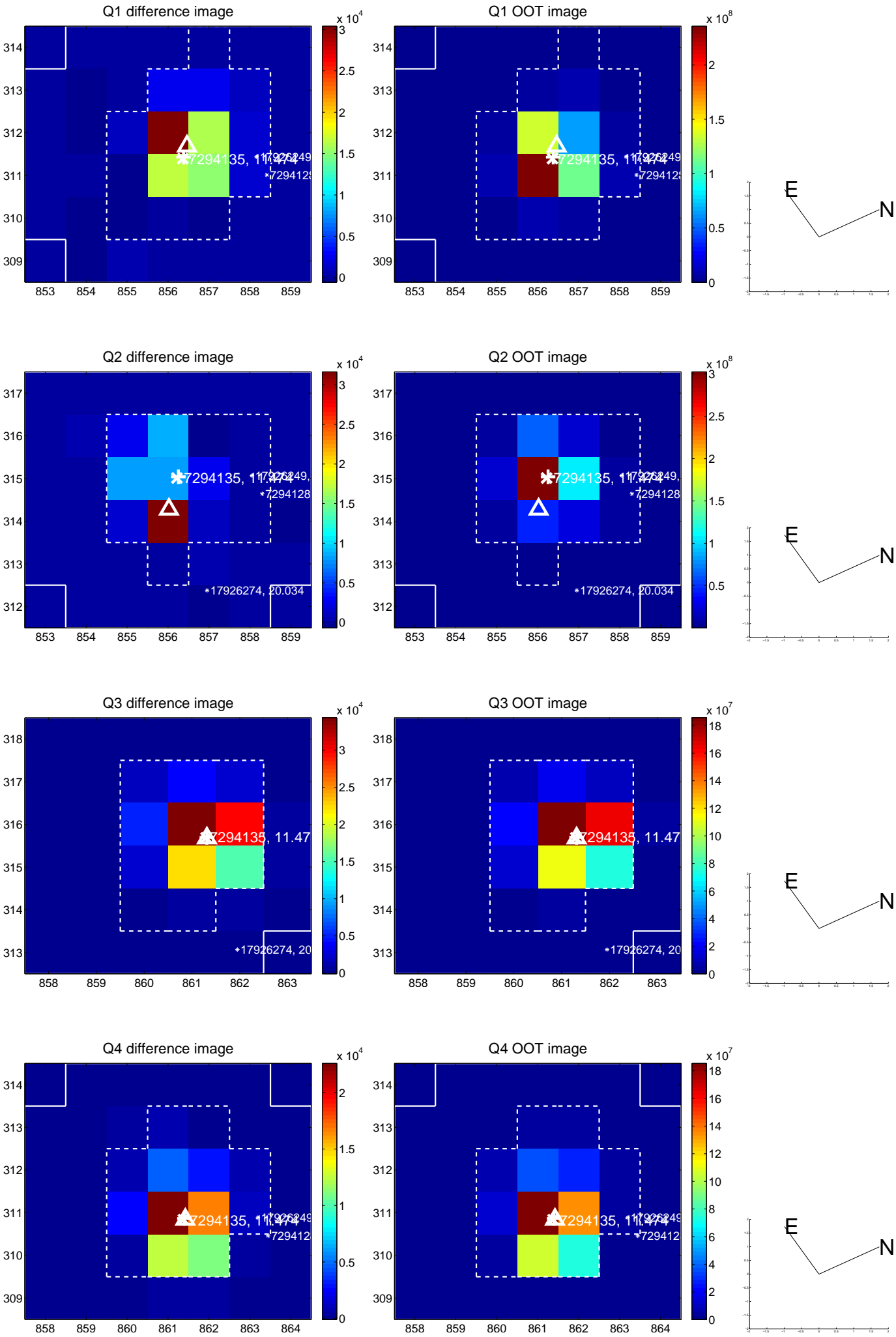
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.101 ± 0.084	1.20	-0.082 ± 0.082	0.059 ± 0.088
PRF-fit source offset from KIC position	0.197 ± 0.136	1.45	-0.042 ± 0.150	0.192 ± 0.164
photometric centroid source offset	0.02 ± 0.06	0.32	0.01 ± 0.06	-0.02 ± 0.06

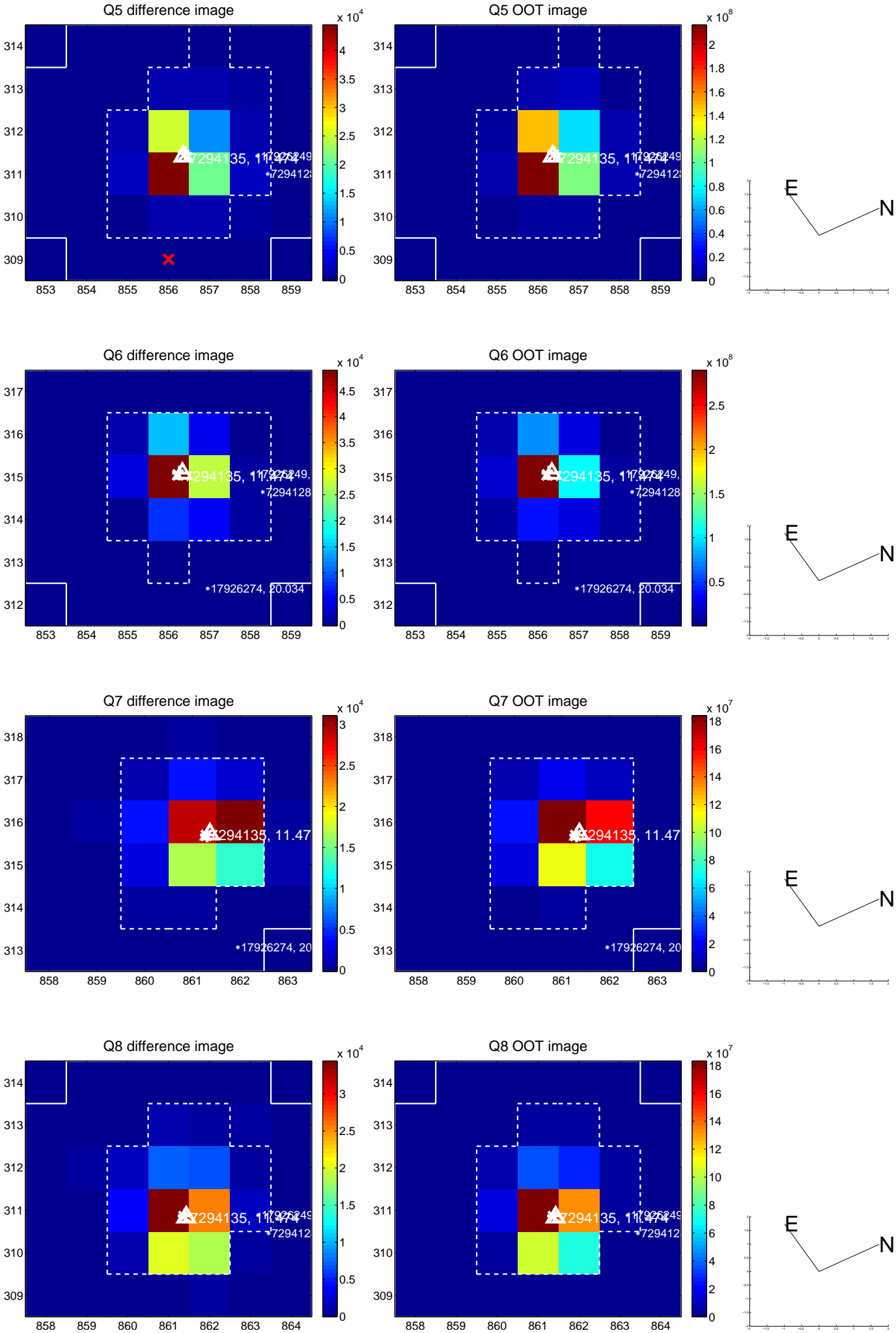


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

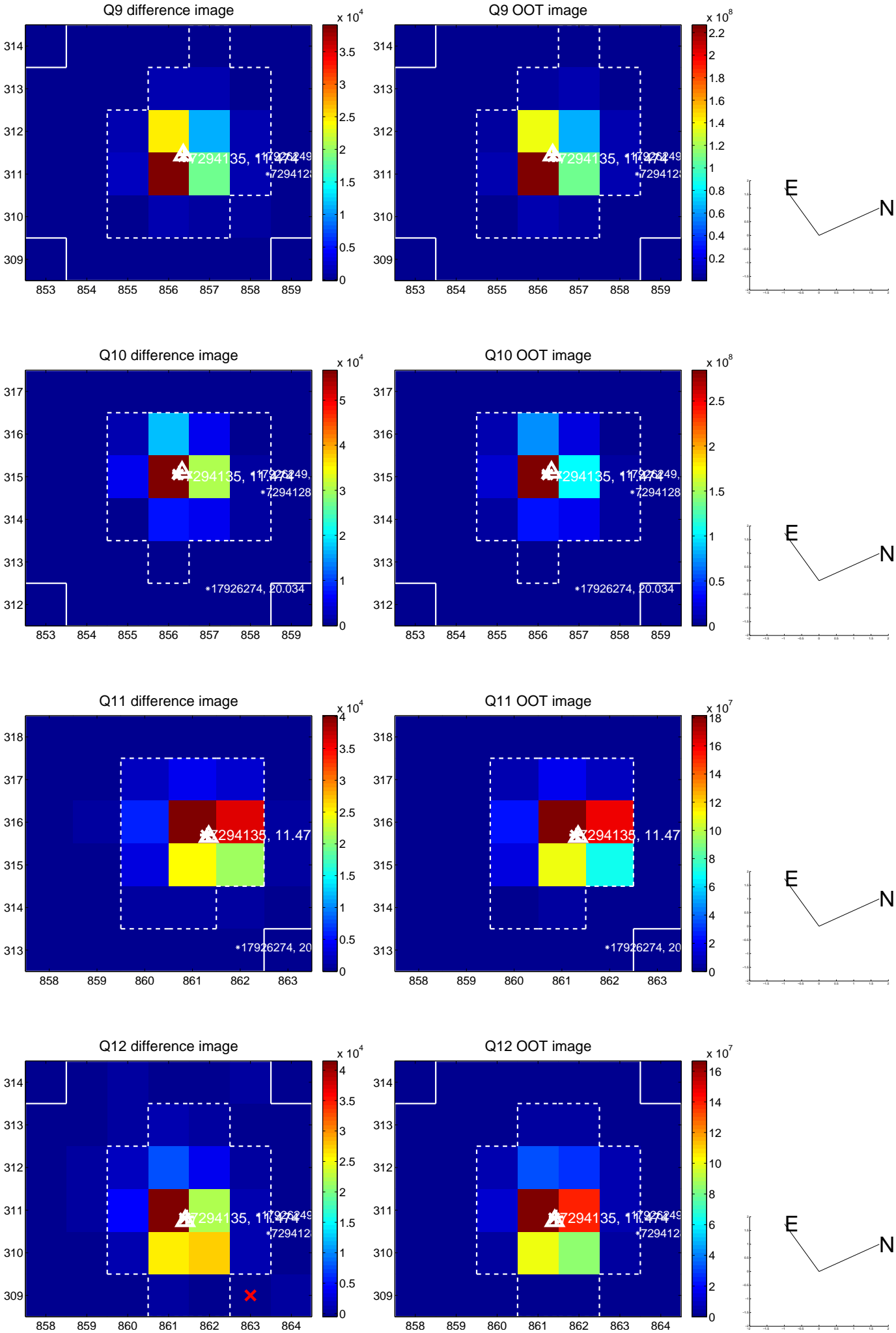
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



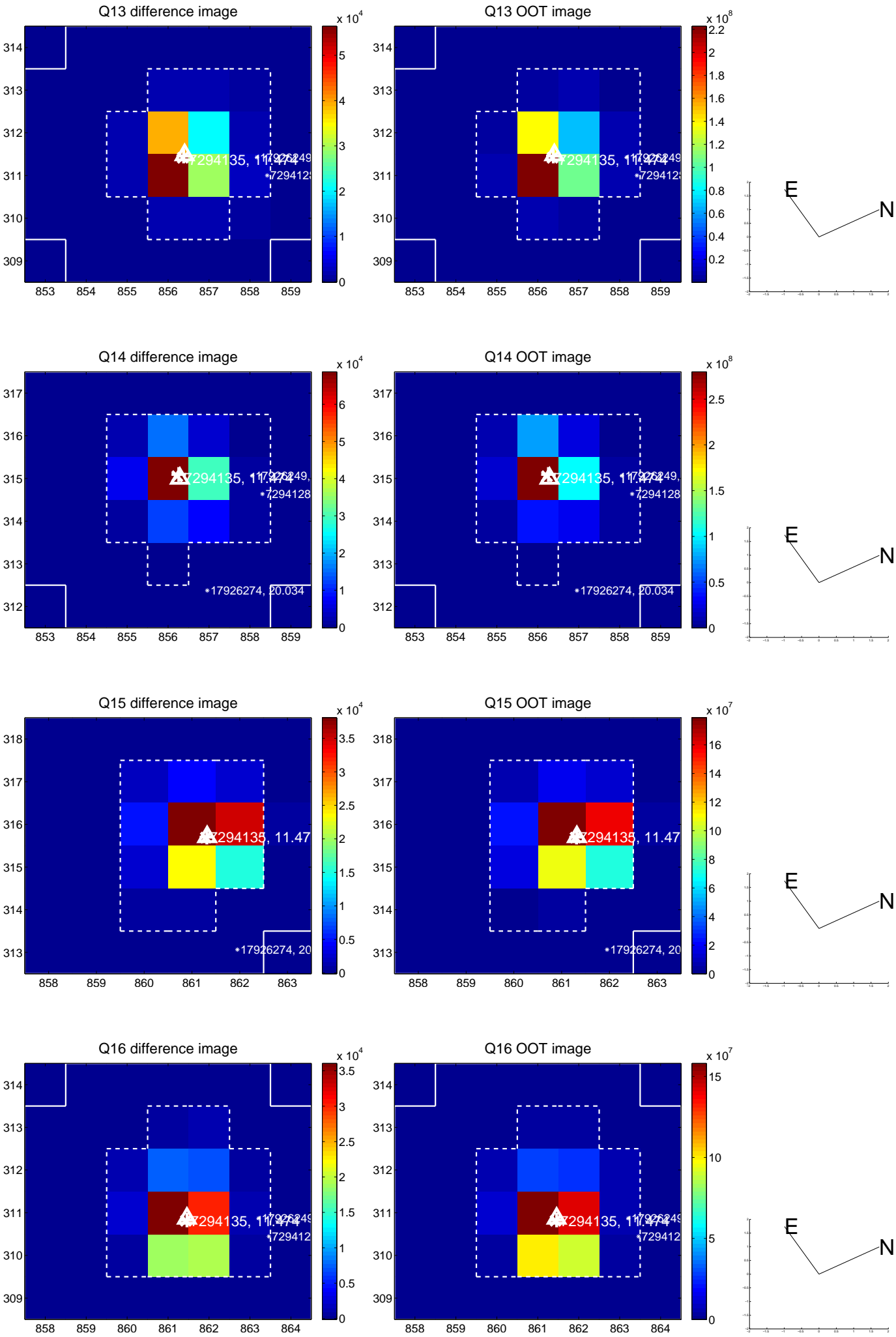
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



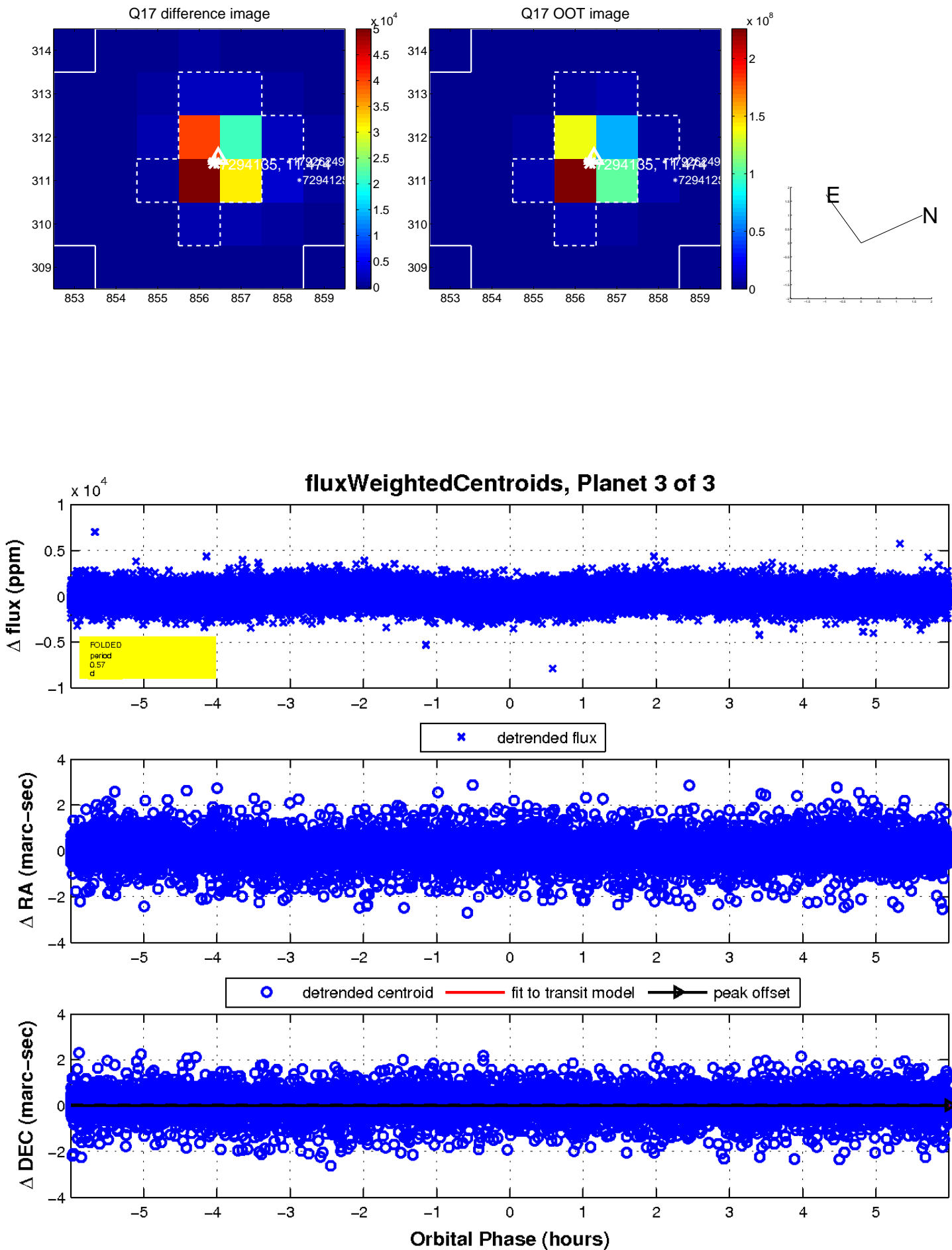
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

