

KIC 006388333

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})
006388333-01	OBS	No	0.635900	131.889041	493.2	1.546	16.9	20.2	1.26	6355	3.30	10254.13
006388333-02	OBS	No	0.635893	131.740588	482.7	1.462	15.8	18.4	1.26	6355	3.28	10254.26
006388333-03	OBS	No	0.635902	131.570369	188.9	1.500	17.1	-1.0	1.26	6355	1.75	10254.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006388333-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006388333-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
006388333-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

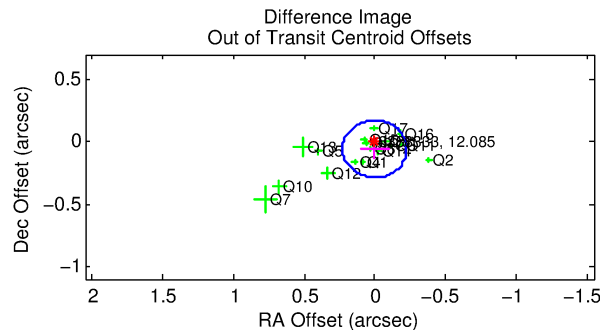
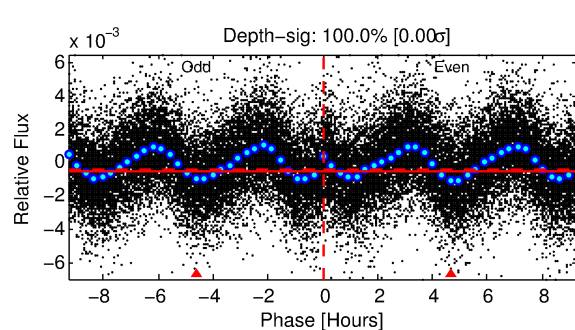
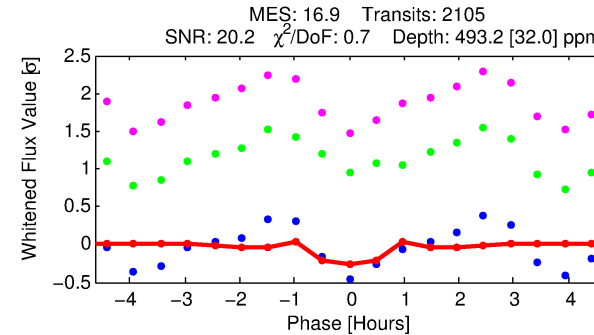
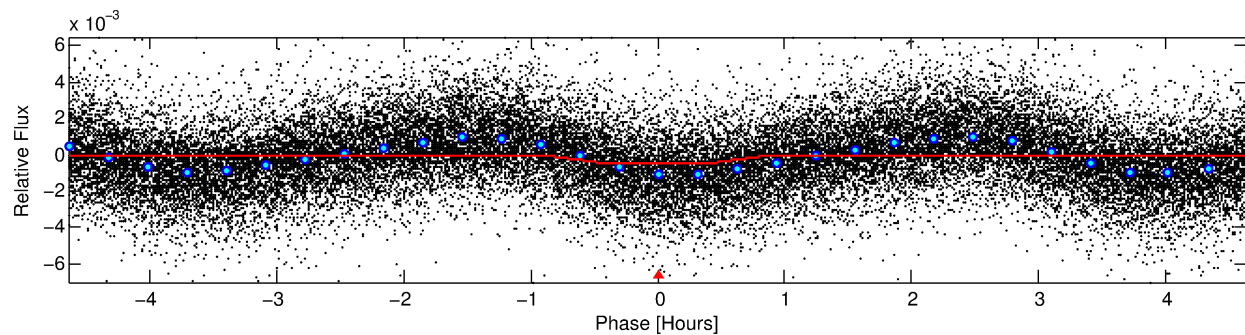
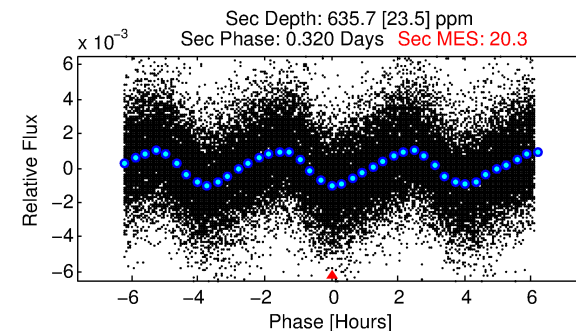
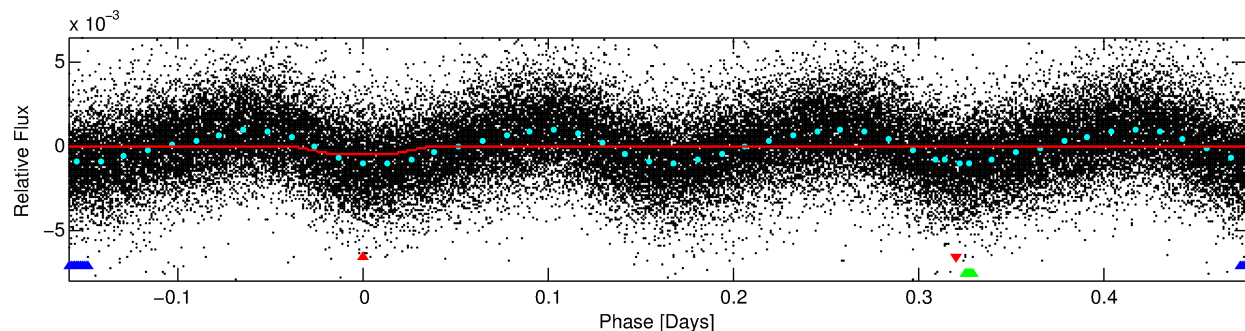
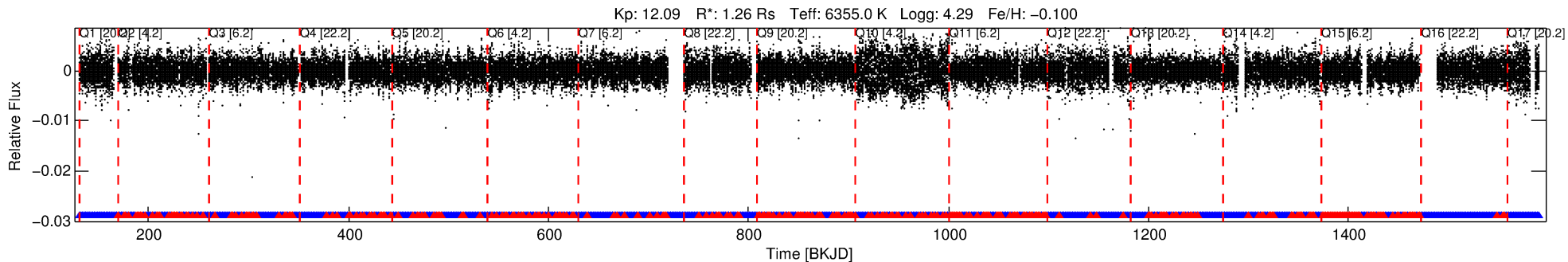
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006388333-01

No Significant Match Found

DV One-Page Summary

KIC: 6388333 Candidate: 1 of 3 Period: 0.636 d



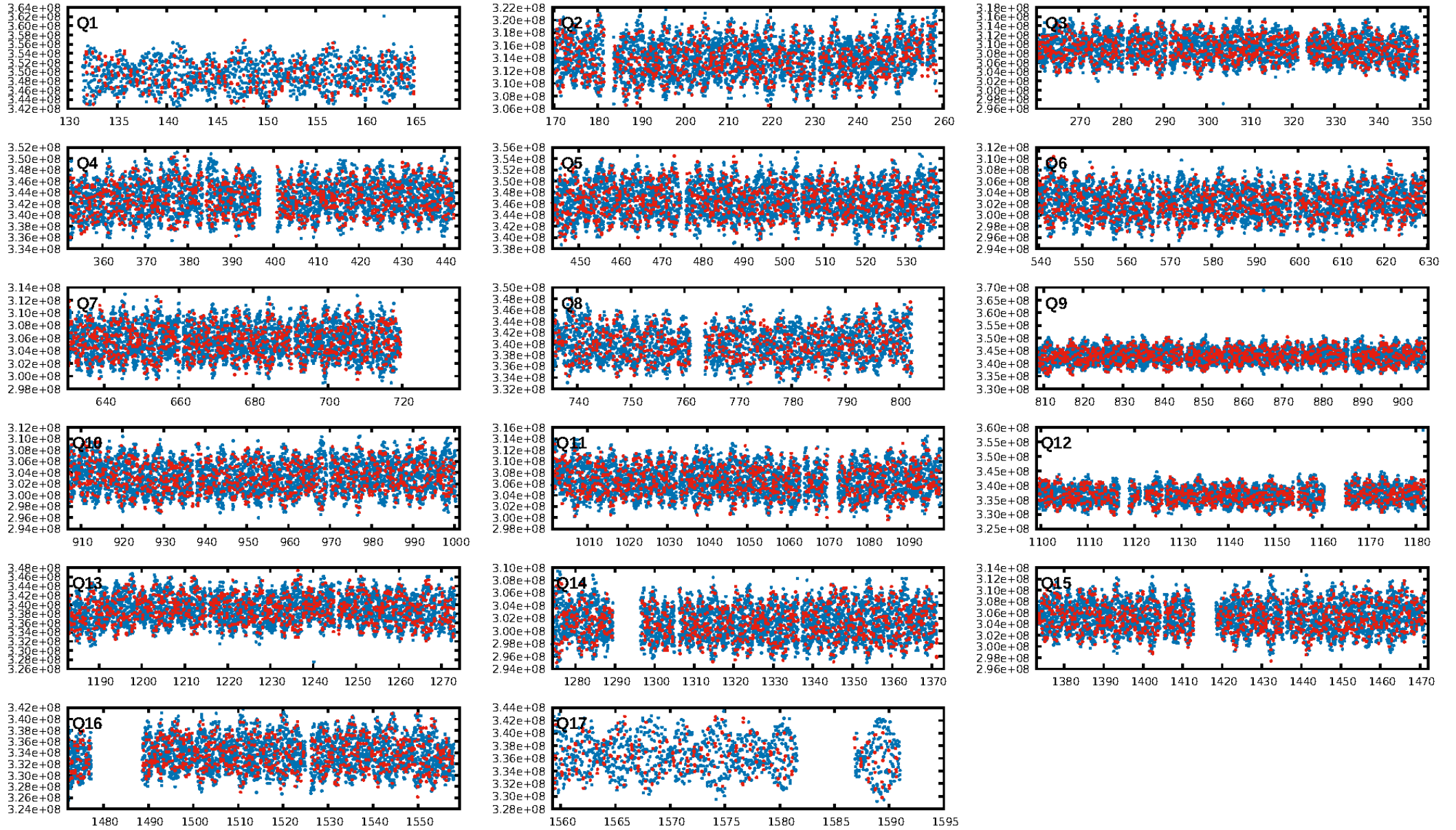
DV Fit Results:

Period = 0.63590 [0.00001] d
Epoch = 131.8890 [0.0007] BKJD
Rp/R* = 0.0239 [0.0027]
a/R* = 1.80 [0.71]
b = 0.90 [0.12]
Seff = 10254.13 [3922.78]
Teff = 2566 [245] K
Rp = 3.30 [1.12] Re
a = 0.0151 [0.0039] AU
Ag = 7.31 [3.14] [2.01 σ]
Teffp = 6523 [420] K [8.14 σ]

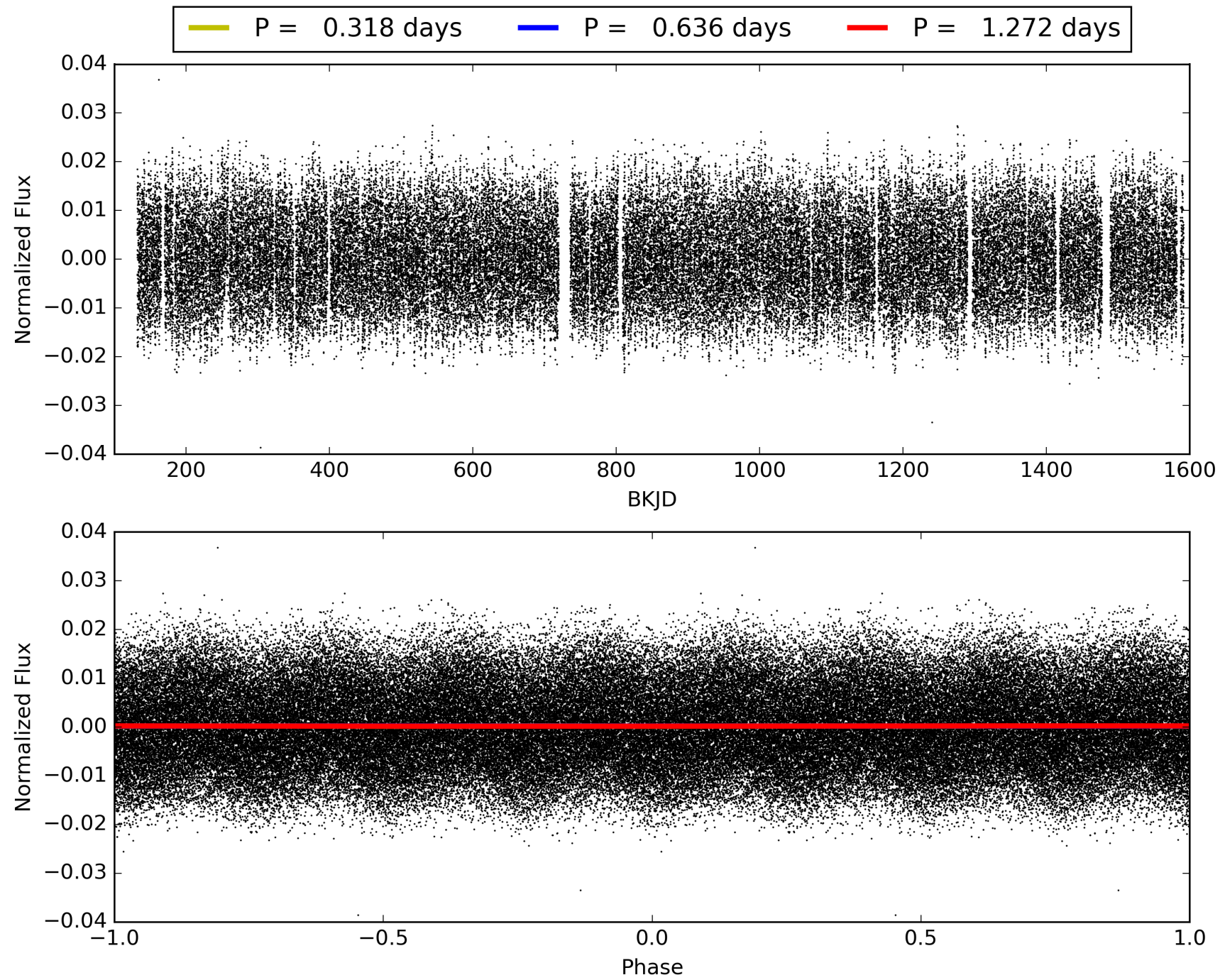
DV Diagnostic Results:

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: 0.80 [1604/2010]
GhostDiagnostic-chr: 1.048
Centroid-sig: 0.1%
Centroid-so: 0.199 arcsec [5.74 σ]
OotOffset-rm: 0.058 arcsec [0.76 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.058 arcsec [0.77 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006388333-01, PDC Light Curves

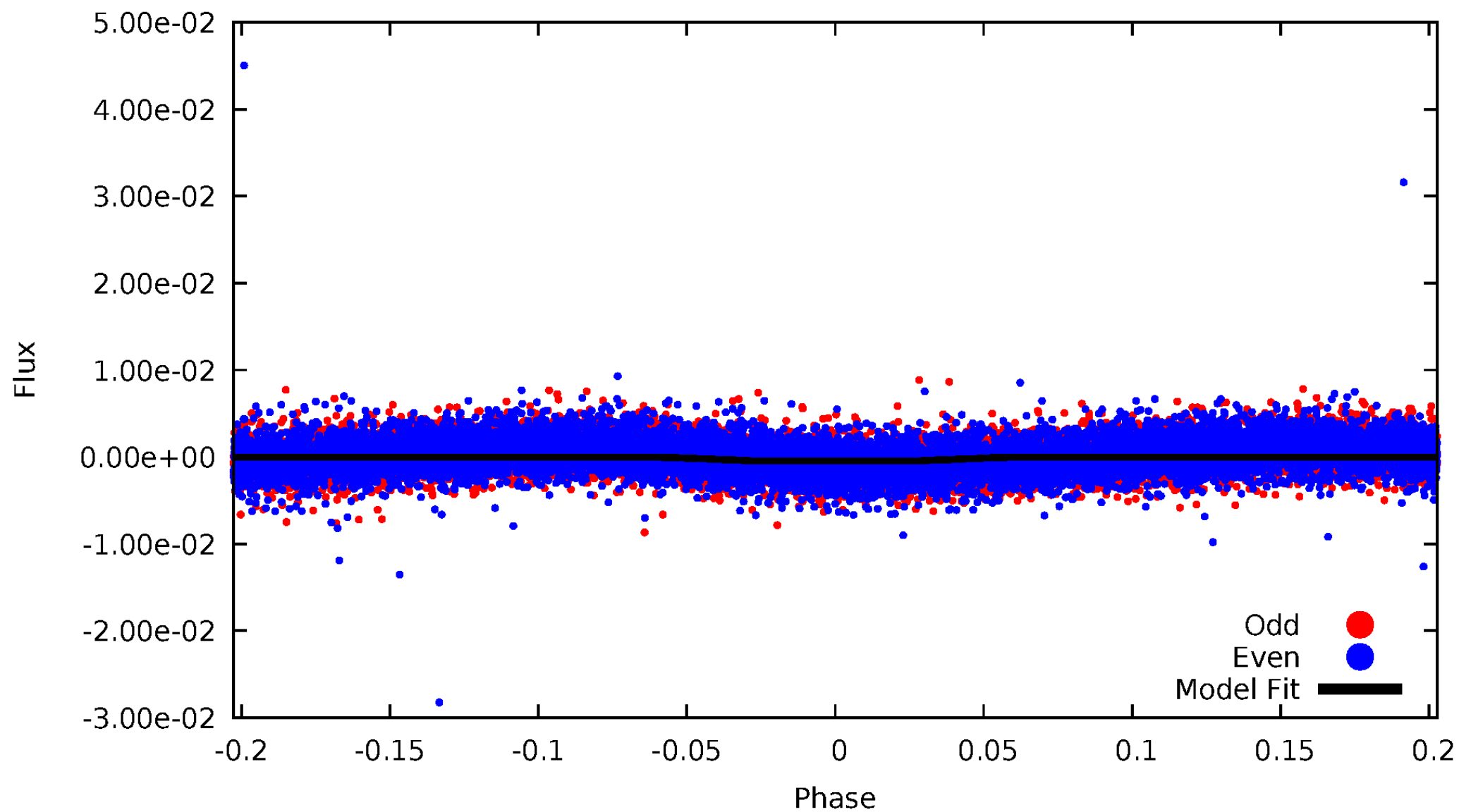


TCE 006388333-01



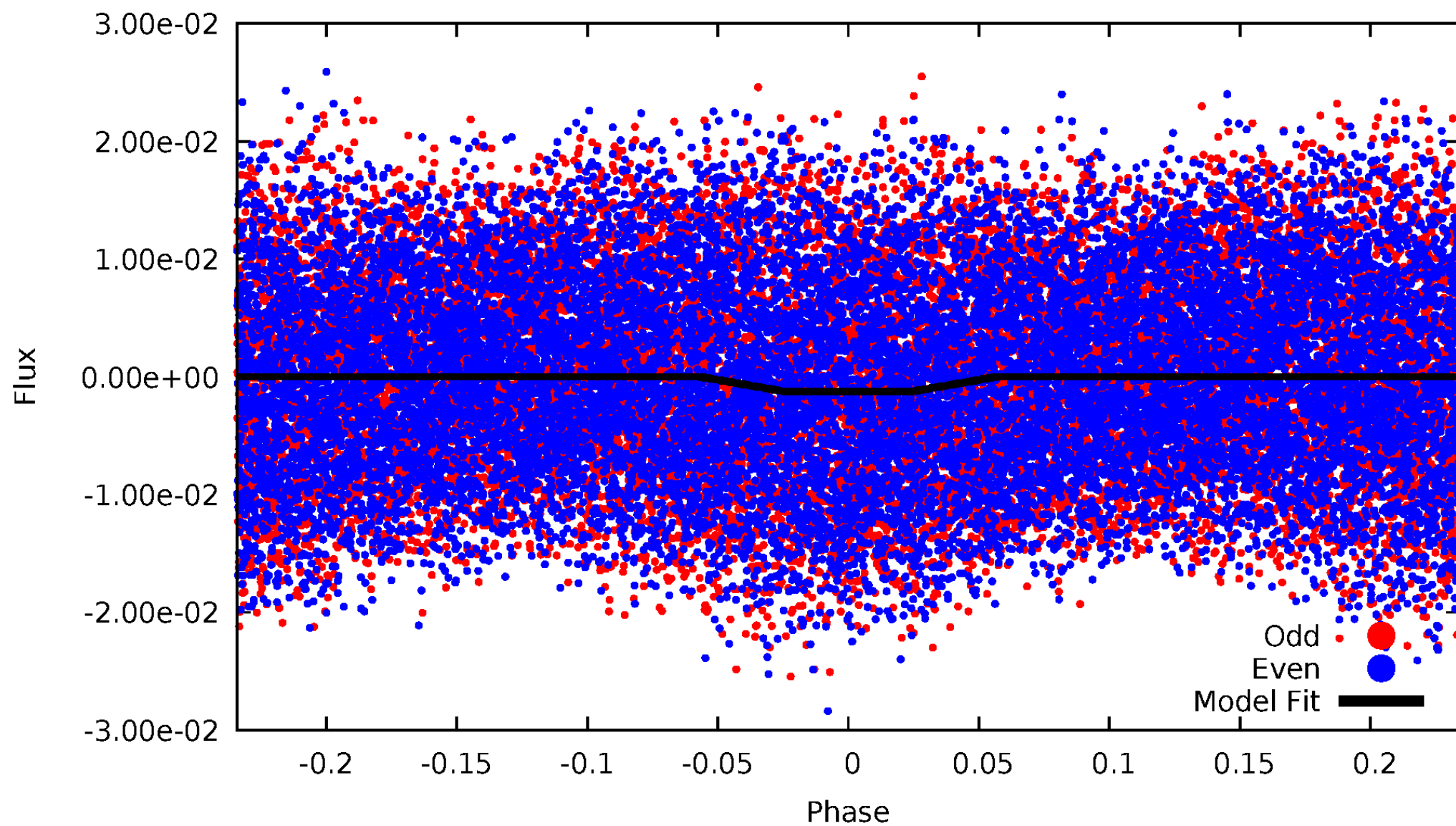
DV Odd/Even

TCE 006388333-01

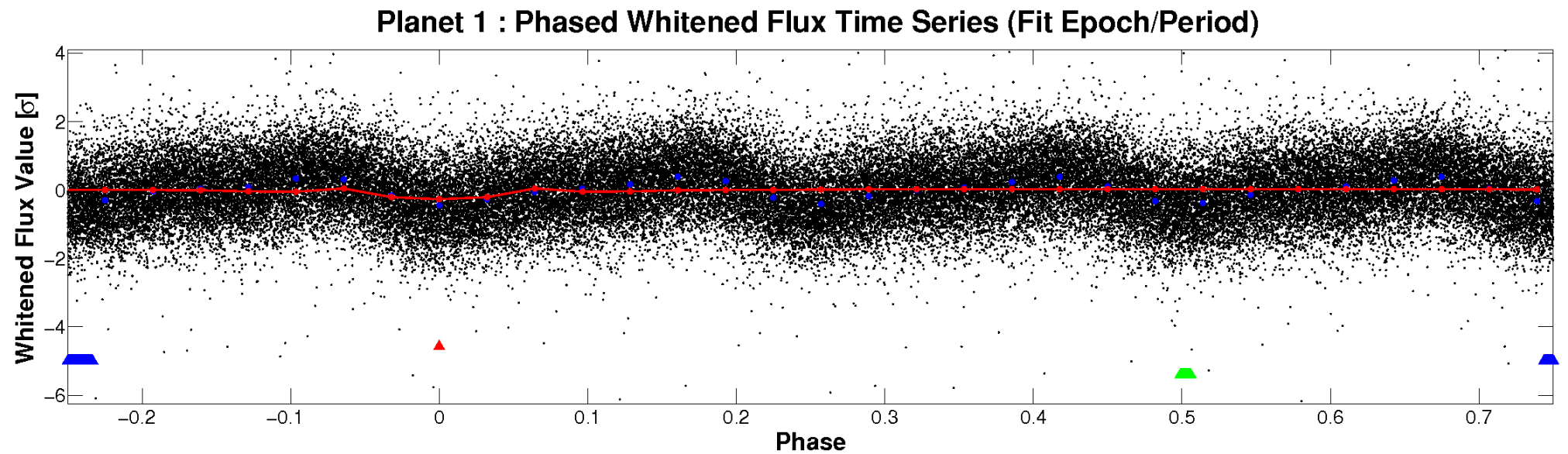
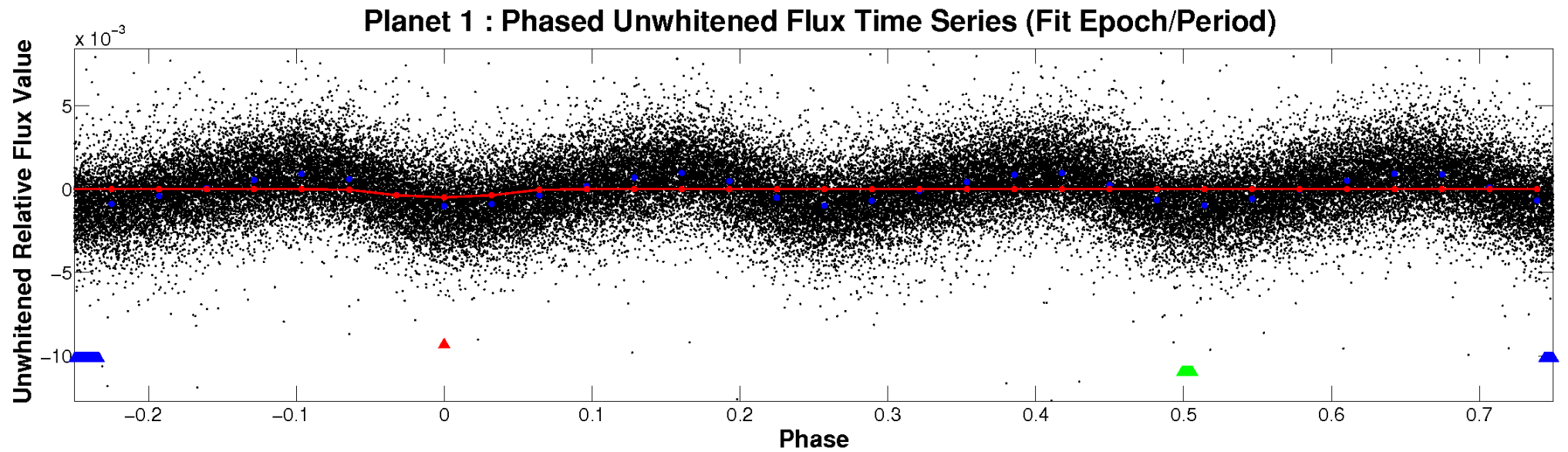


ALT Odd/Even

TCE 006388333-01

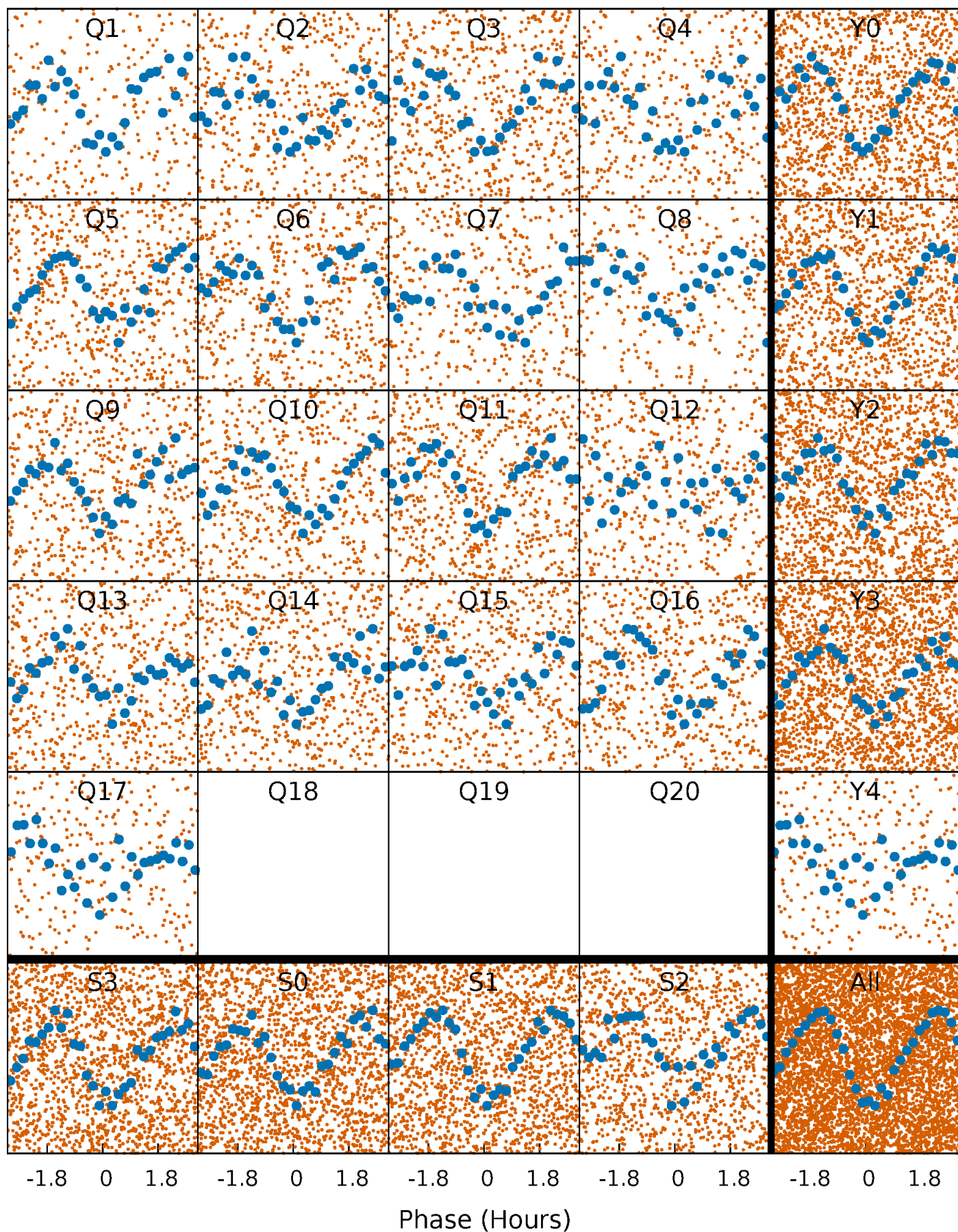


Non-Whitened Vs. Whitened Light Curve



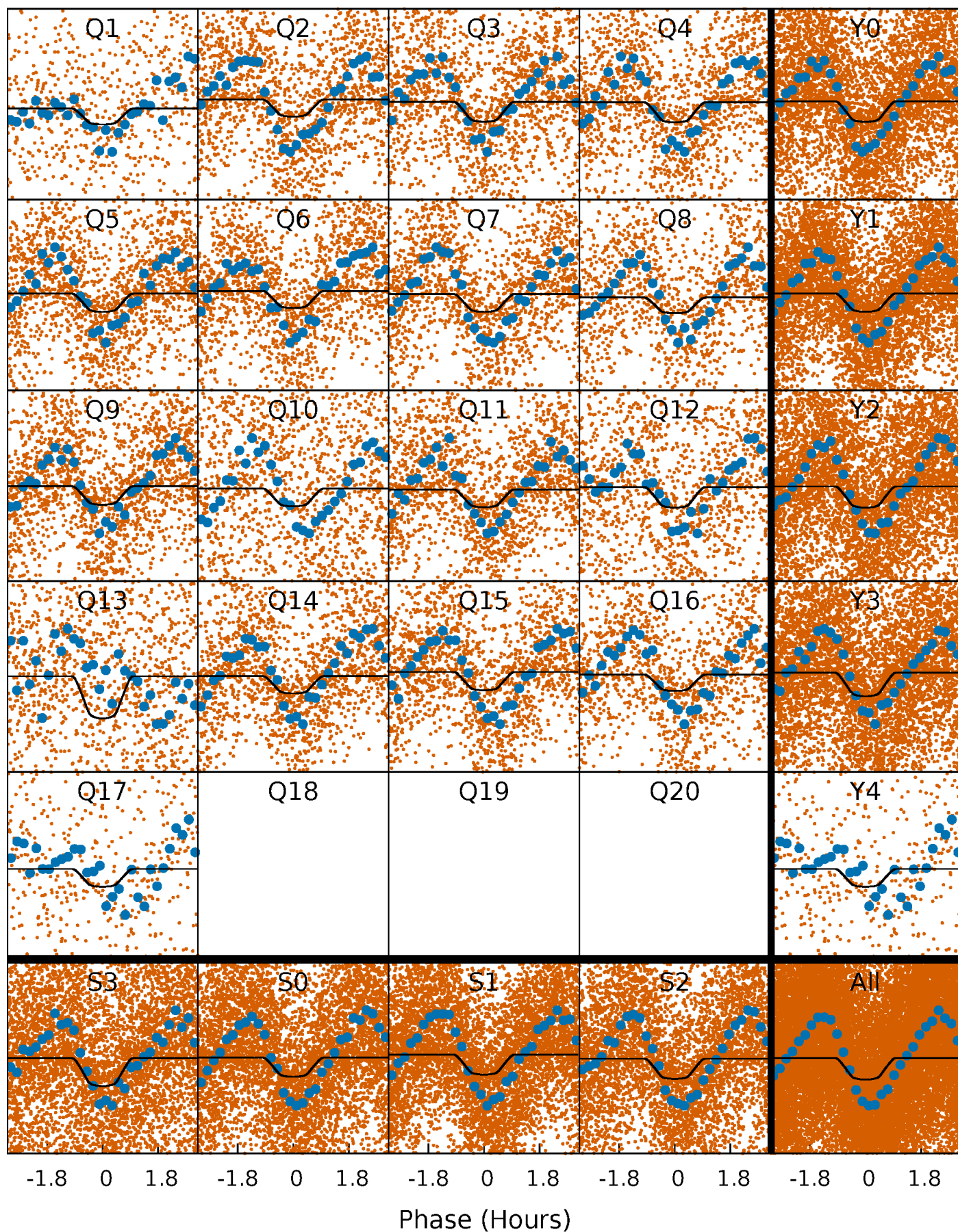
PDC Quarter-Phased Transit Curves

TCE 006388333-01 P= 0.635900 Days $T_0=131.889041$ (BKJD)



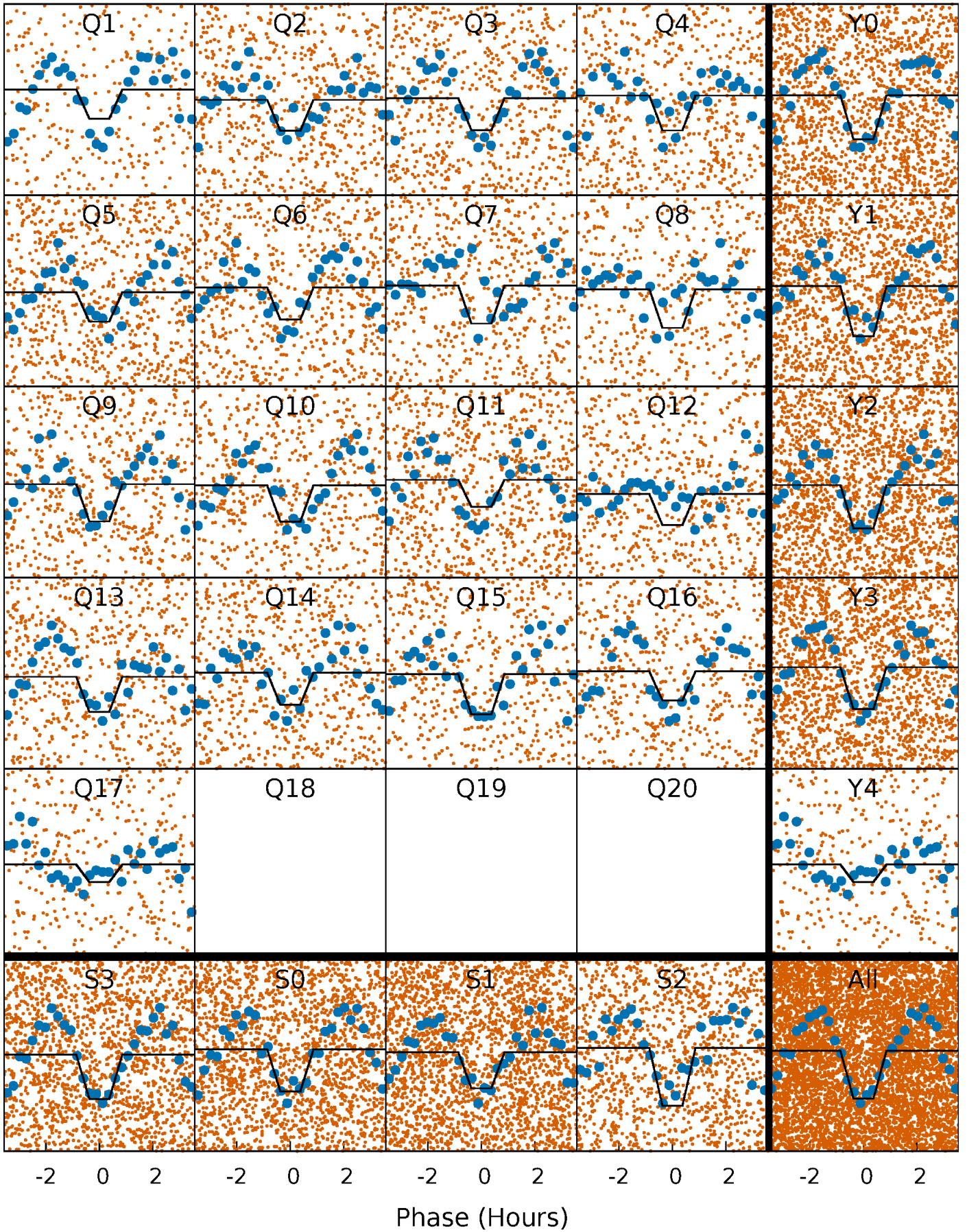
DV Quarter-Phased Transit Curves

TCE 006388333-01 P= 0.635900 Days $T_0=131.889041$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

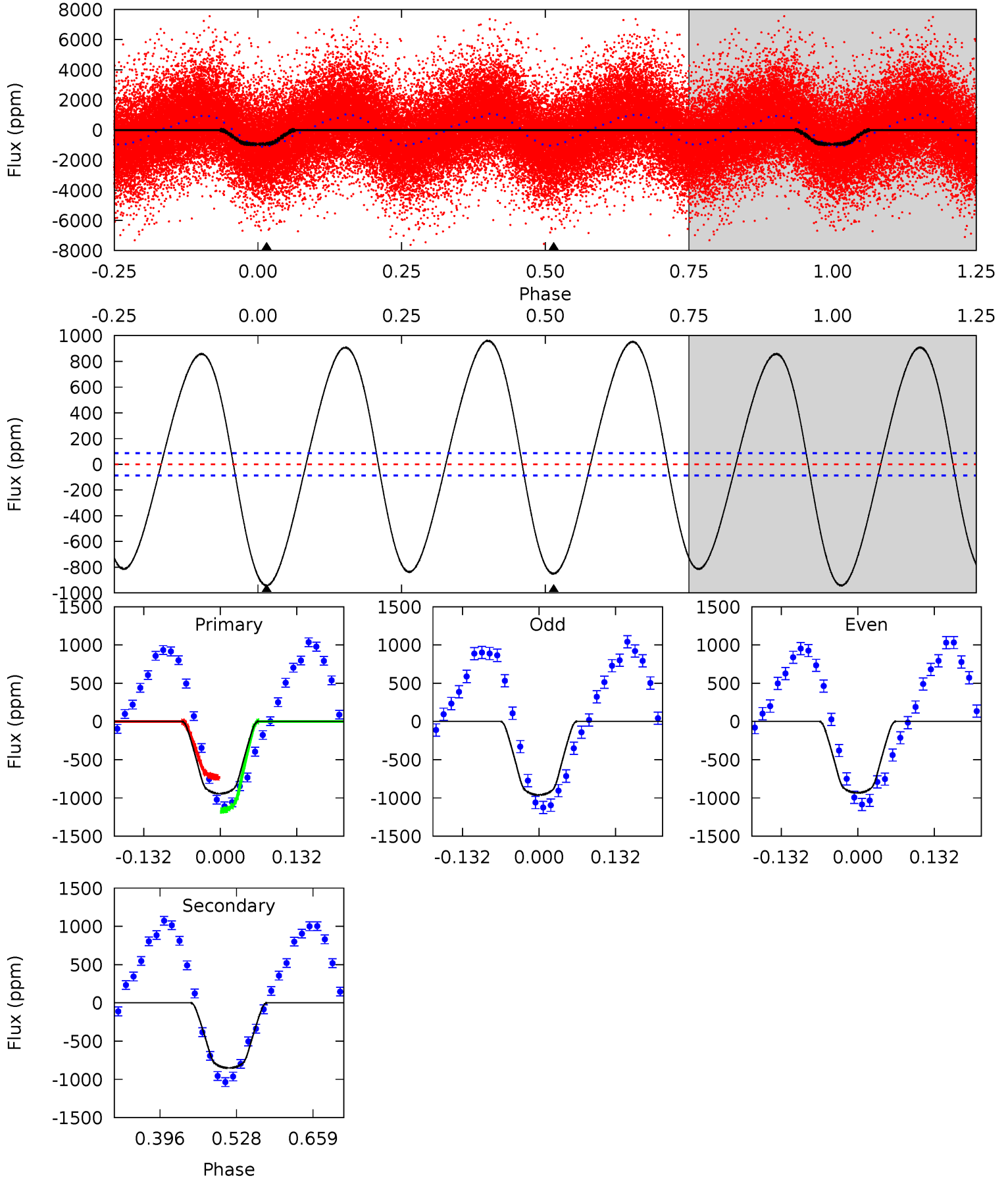
TCE 006388333-01 P= 0.635907 Days $T_0=131.889386$ (BKJD)



DV Model-Shift Uniqueness Test

006388333-01, P = 0.635900 Days, E = 131.253141 Days

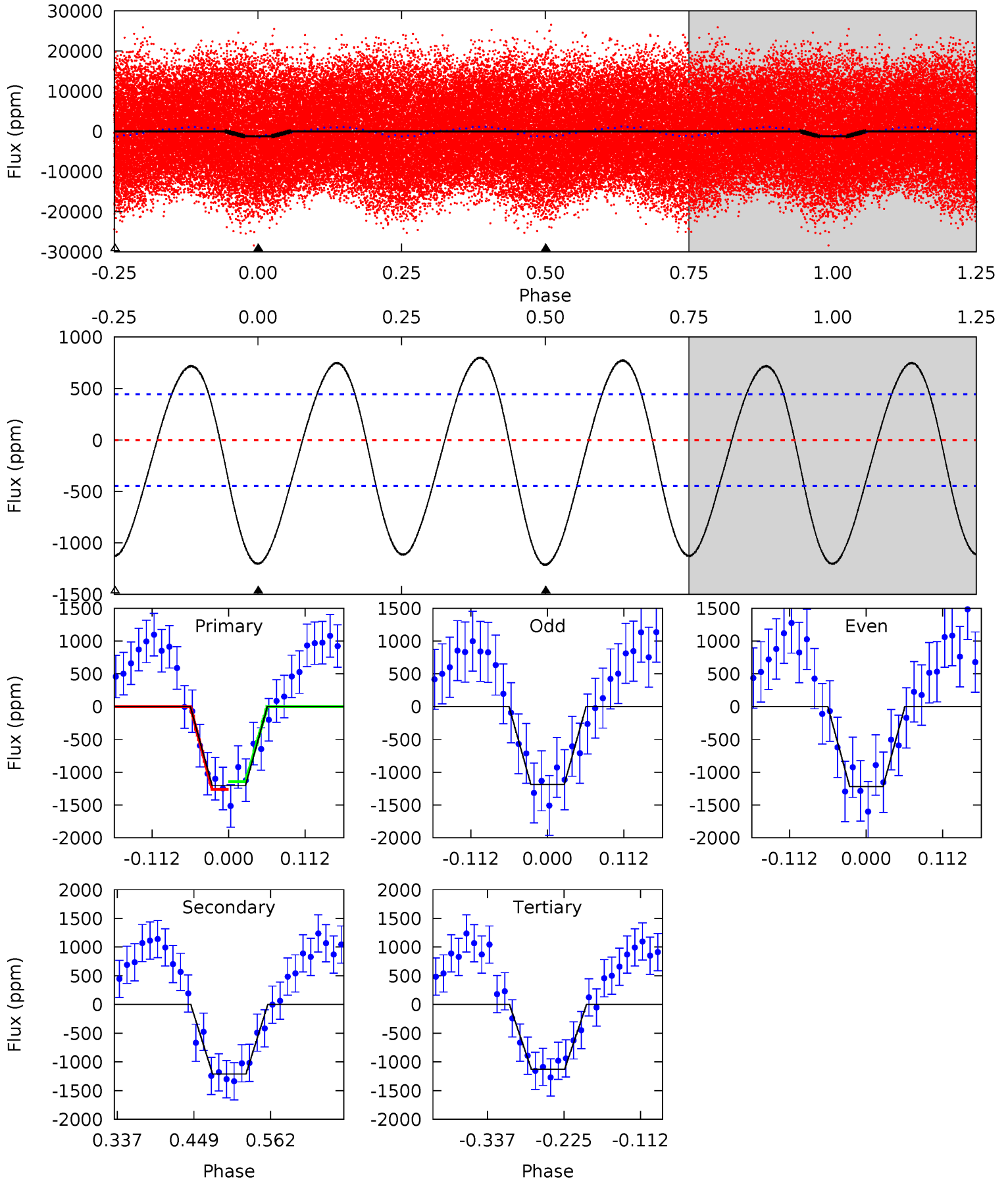
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
49.0	44.2	0	0	4.51	1.51	31.1	49.0	49.0	44.2	44.2	0.73	1.04	0.50	11.5



Alt Model-Shift Uniqueness Test

006388333-01, P = 0.635907 Days, E = 131.253479 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.3	12.4	11.5	0	4.54	1.59	6.93	0.77	12.3	0.86	12.4	0.17	1.06	0.40	0.60



Stellar Parameters For KIC 006388333

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6355^{+151}_{-189}	$4.289^{+0.128}_{-0.192}$	$-0.100^{+0.250}_{-0.300}$	$1.265^{+0.404}_{-0.218}$	$1.134^{+0.181}_{-0.148}$	$0.789^{+0.489}_{-0.408}$
	+2%/-3%	+3%/-4%	+250%/-300%	+32%/-17%	+16%/-13%	+62%/-52%
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 006388333-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-850 ± 19	$3.36^{+0.66}_{-0.54}$	3604^{+276}_{-212}	6984^{+556}_{-461}	$9.483^{+3.726}_{-2.718}$
Alt.	-1212 ± 98	$4.93^{+0.85}_{-0.69}$	3594^{+260}_{-203}	6219^{+346}_{-320}	$6.264^{+2.211}_{-1.691}$

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

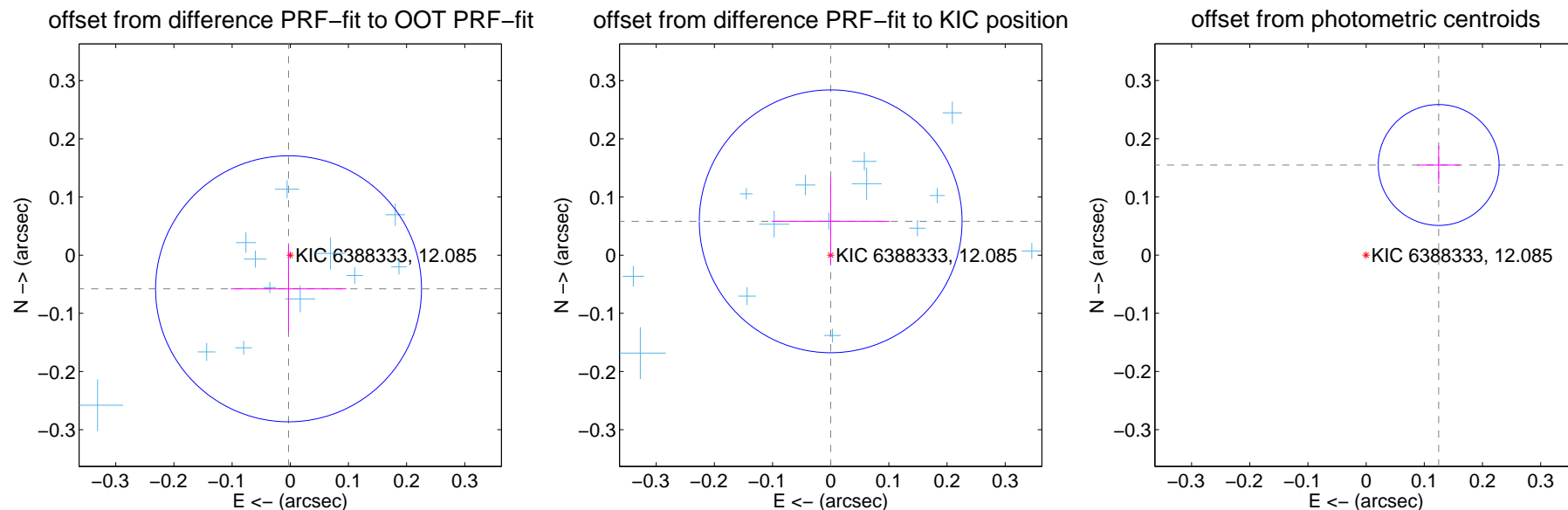
DV Centroid Data

Supplemental centroid analysis for 006388333-01. Kepler magnitude: 12.09. Transit SNR 20.16

There are 17 quarters with good PRF difference image offsets

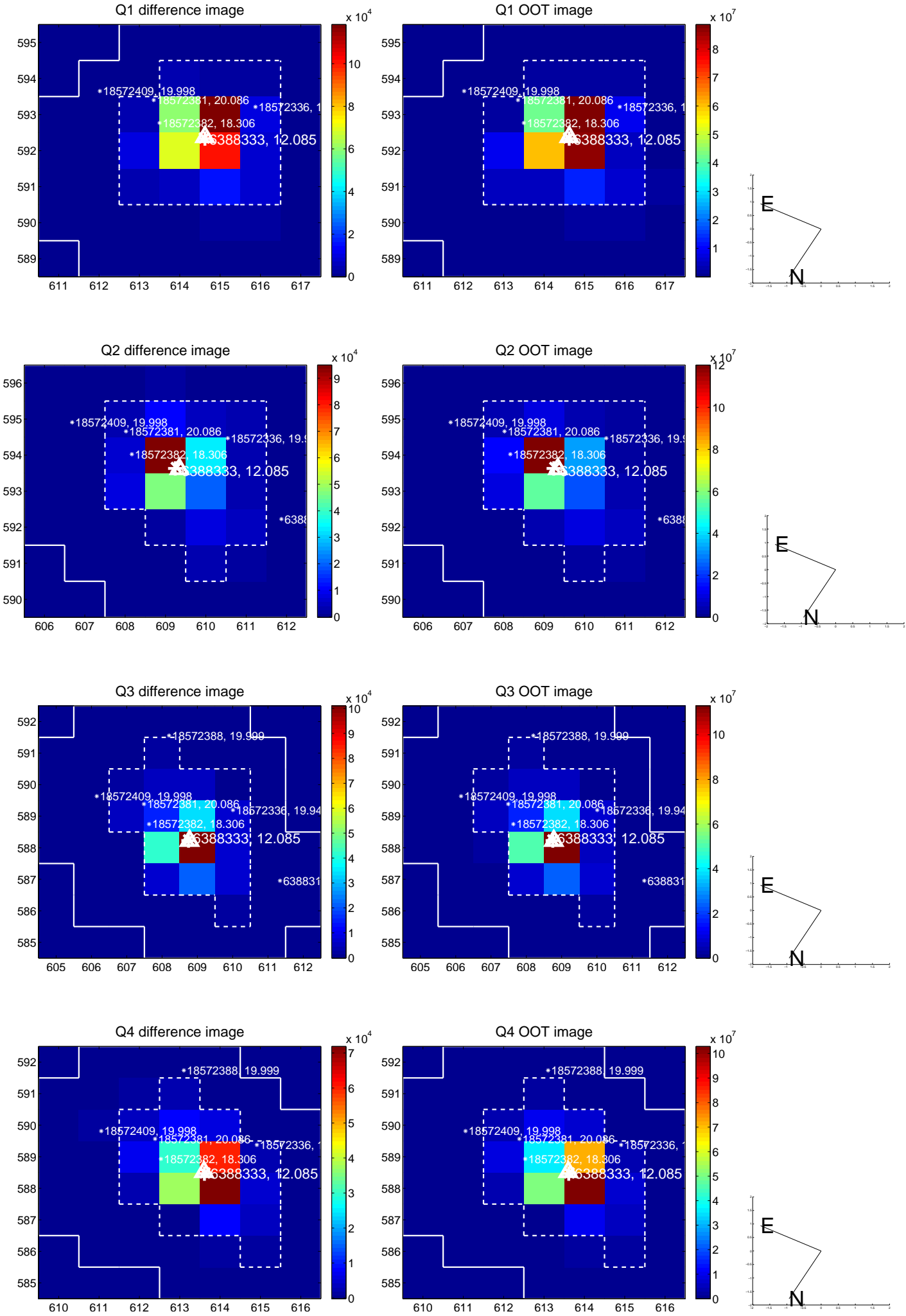
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.058 ± 0.076	0.76	0.003 ± 0.099	-0.058 ± 0.075
PRF-fit source offset from KIC position	0.058 ± 0.075	0.77	0.000 ± 0.101	0.058 ± 0.075
photometric centroid source offset	0.20 ± 0.03	5.74	-0.12 ± 0.04	0.15 ± 0.03

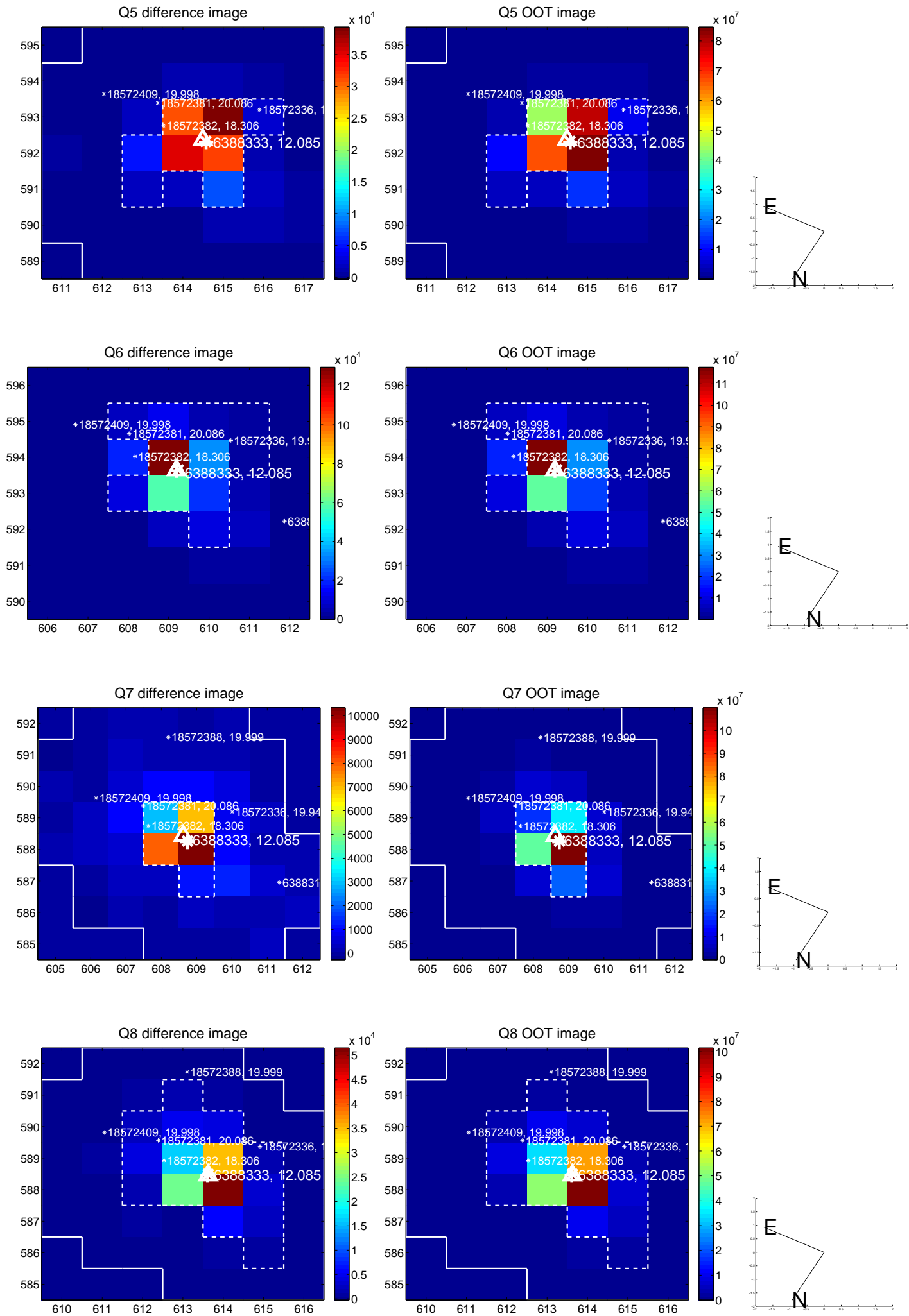


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

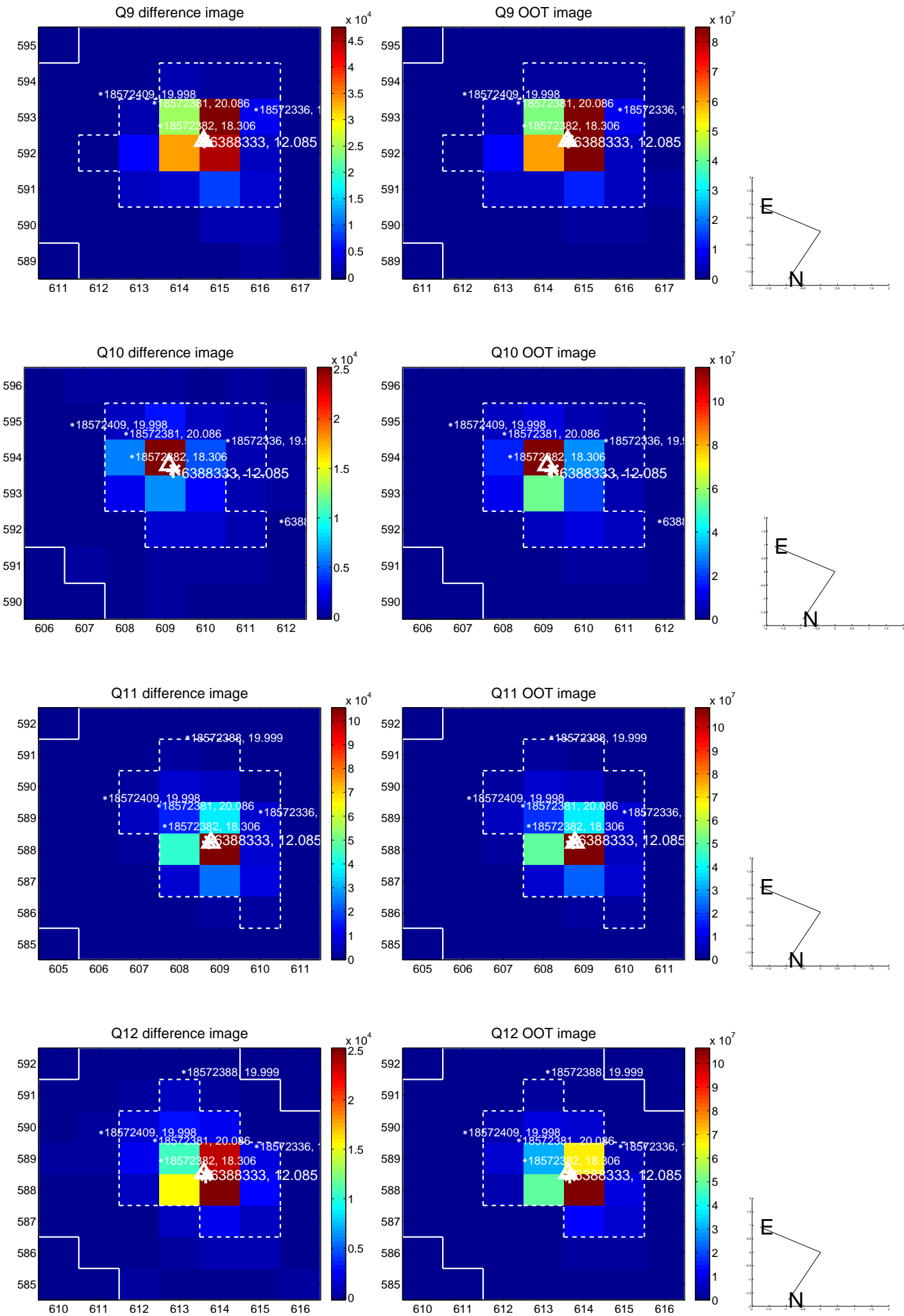
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



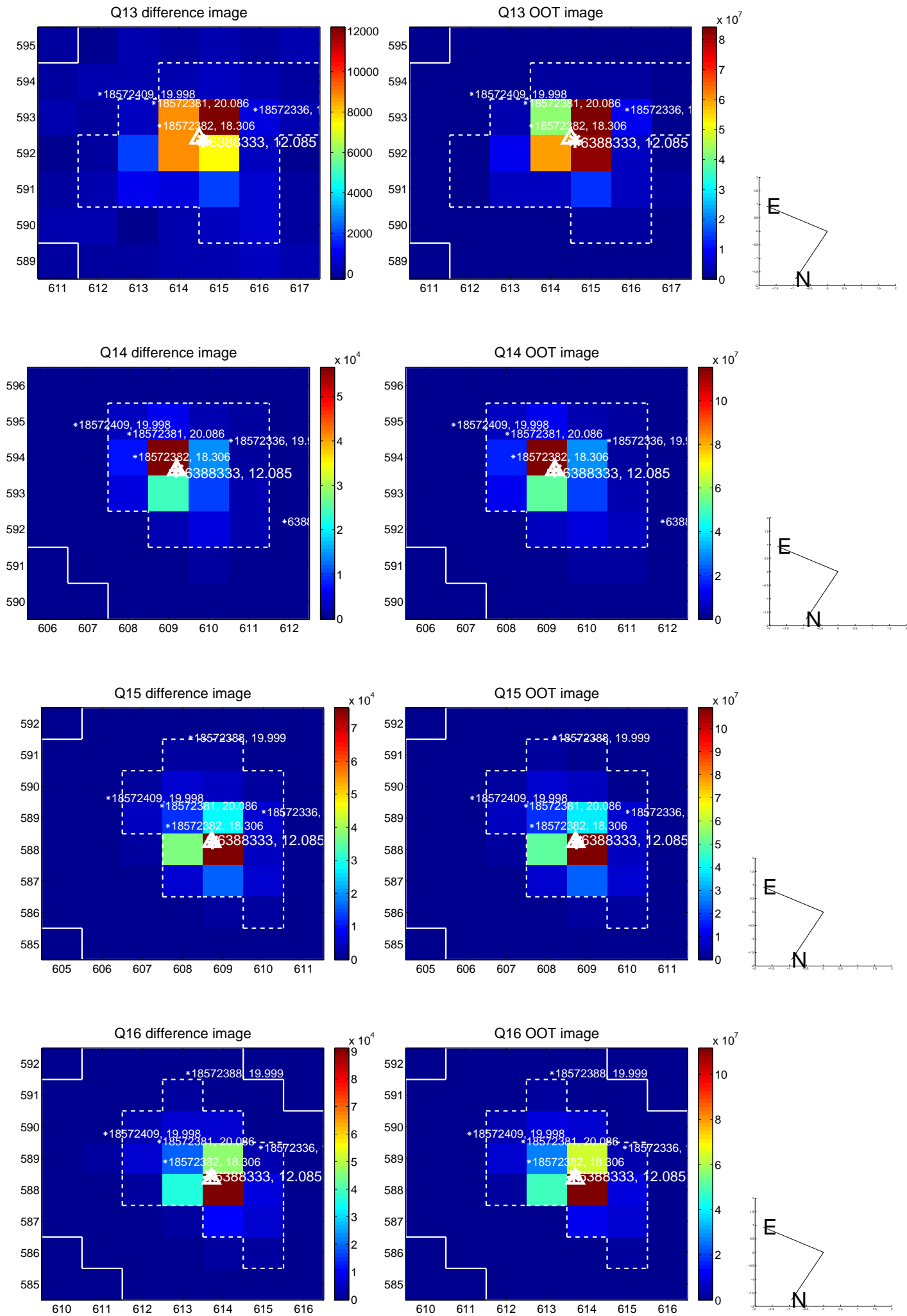
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



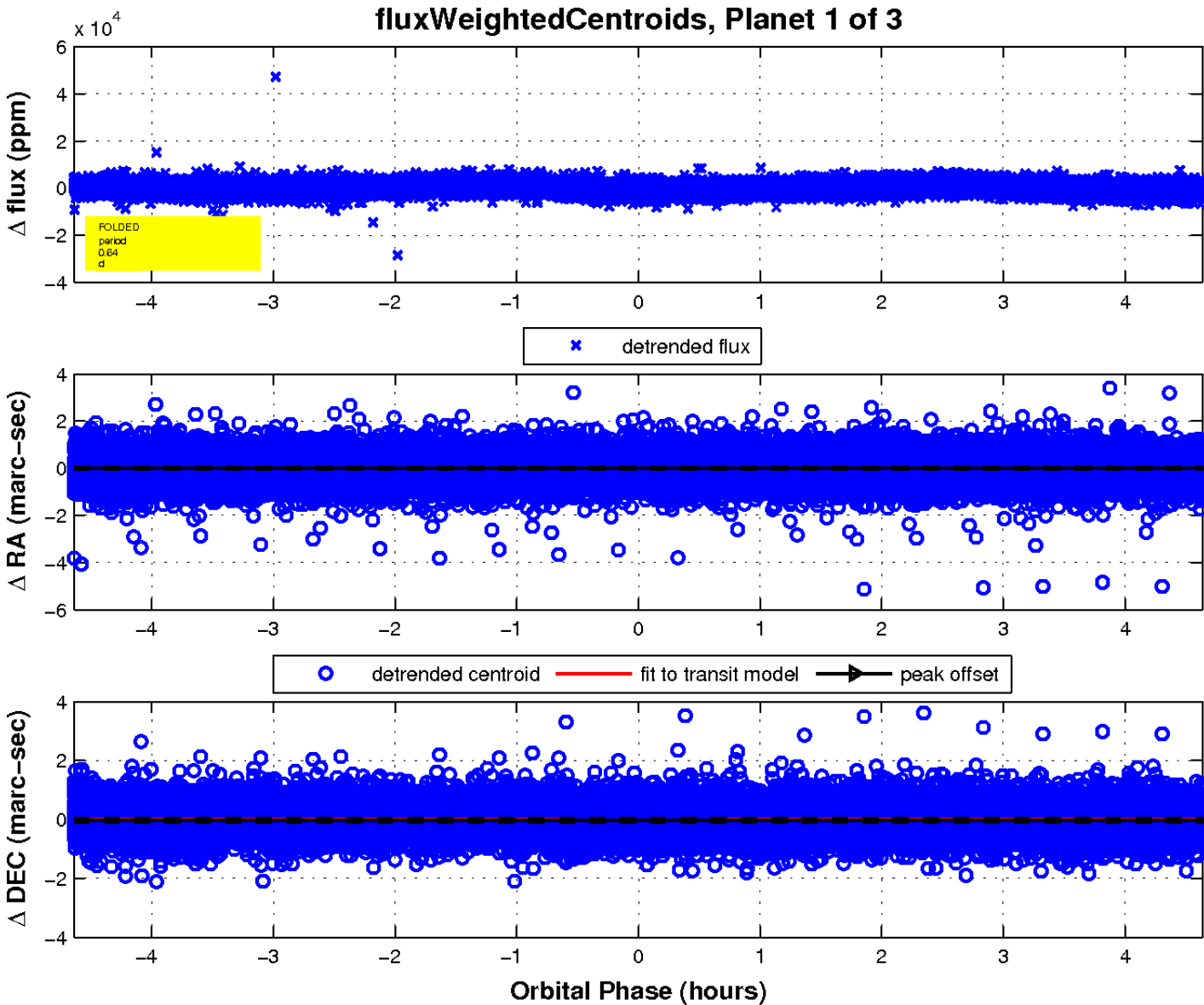
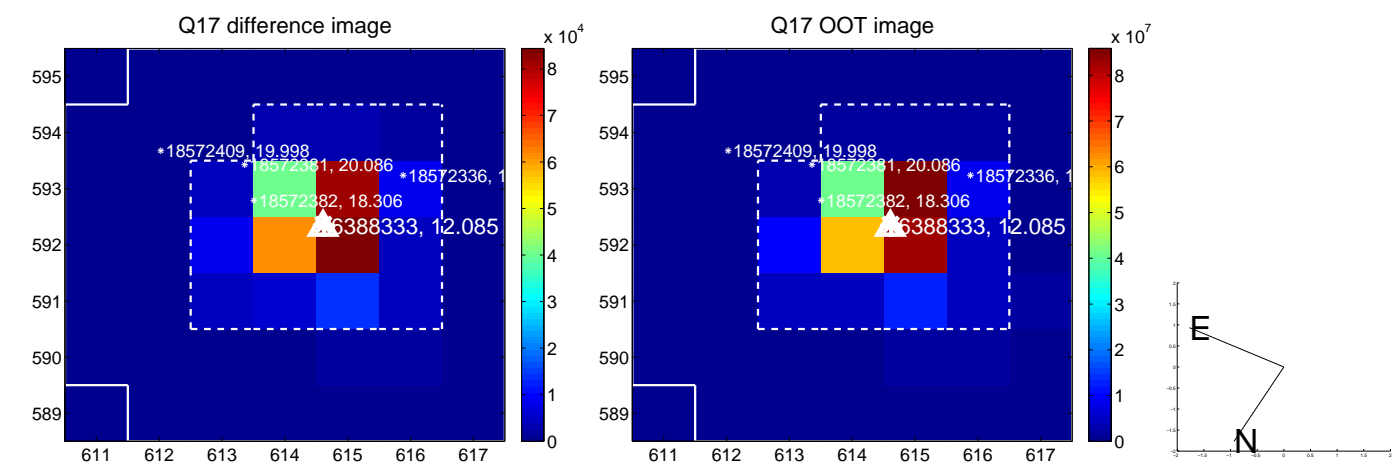
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

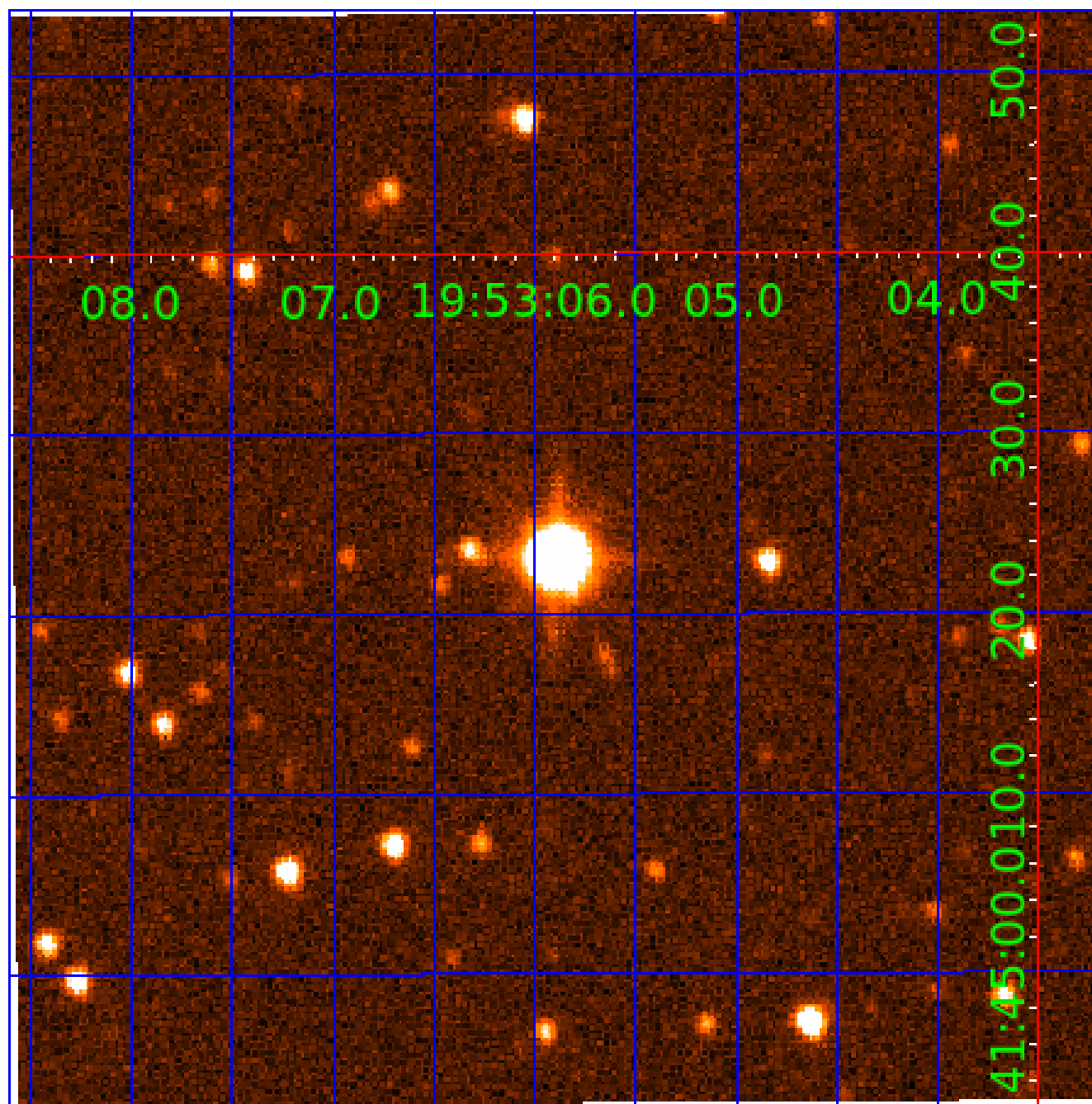


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006388333

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})
006388333-01	OBS	No	0.635900	131.889041	493.2	1.546	16.9	20.2	1.26	6355	3.30	10254.13
006388333-02	OBS	No	0.635893	131.740588	482.7	1.462	15.8	18.4	1.26	6355	3.28	10254.26
006388333-03	OBS	No	0.635902	131.570369	188.9	1.500	17.1	-1.0	1.26	6355	1.75	10254.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006388333-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006388333-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
006388333-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

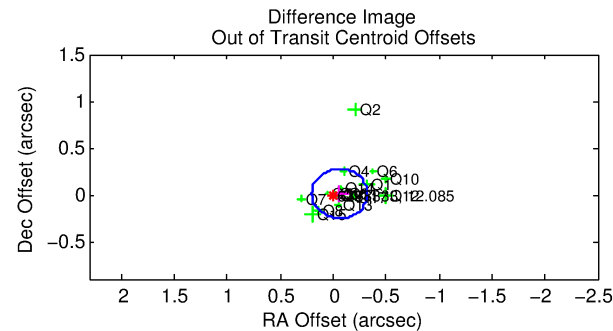
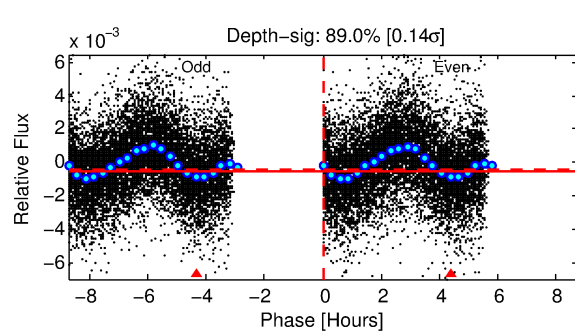
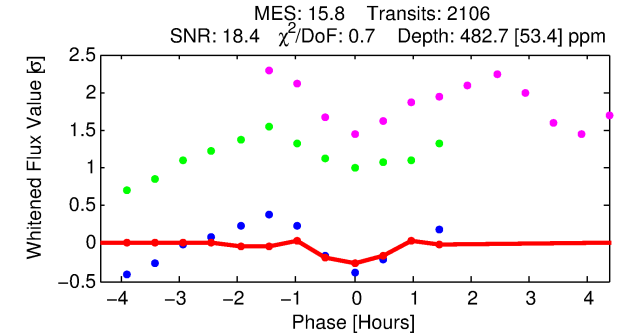
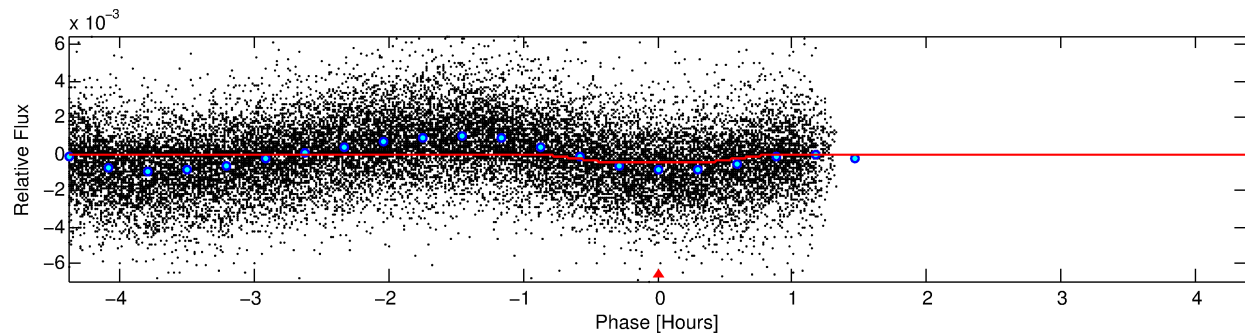
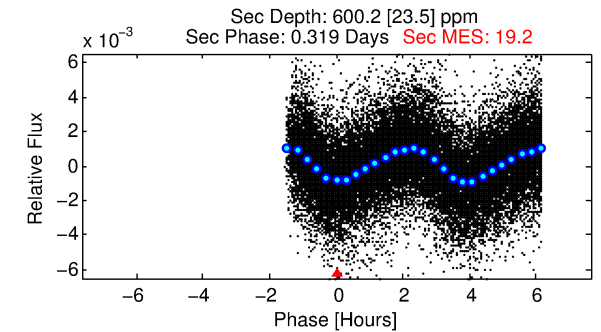
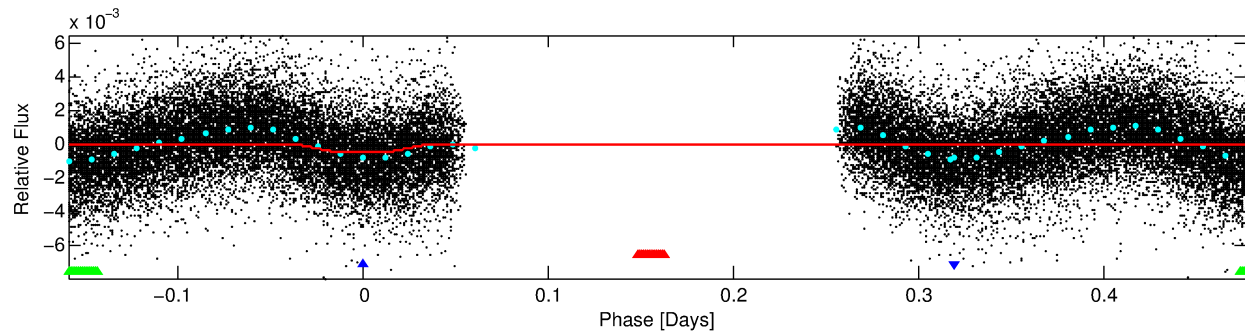
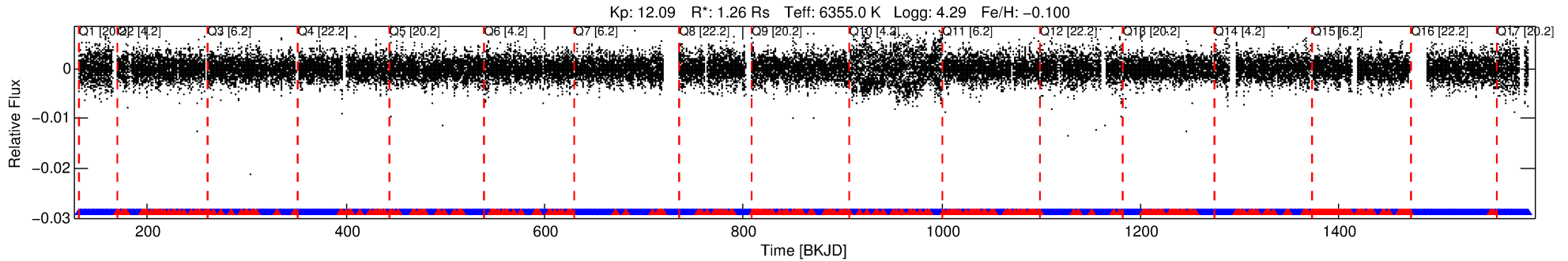
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006388333-02

No Significant Match Found

DV One-Page Summary

KIC: 6388333 Candidate: 2 of 3 Period: 0.636 d



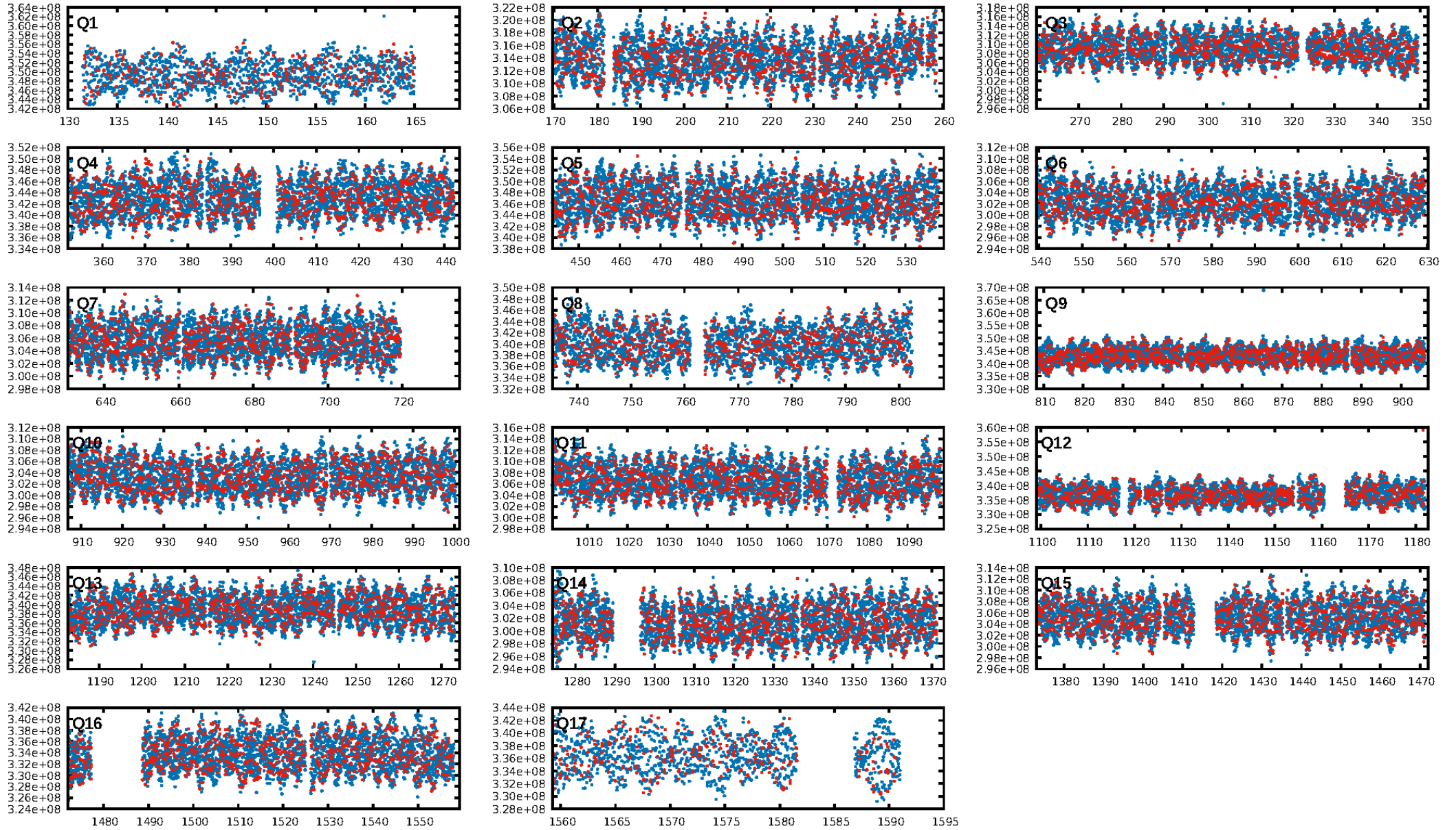
DV Fit Results:

Period = 0.63589 [0.00001] d
Epoch = 131.7406 [0.0008] BKJD
Rp/R* = 0.0237 [0.0035]
a/R* = 1.86 [0.99]
b = 0.90 [0.16]
Seff = 10254.26 [3922.84]
Teq = 2566 [245] K
Rp = 3.28 [1.15] Re
a = 0.0151 [0.0039] AU
Ag = 7.02 [3.30] [1.82σ]
Teffp = 6457 [519] K [6.78σ]

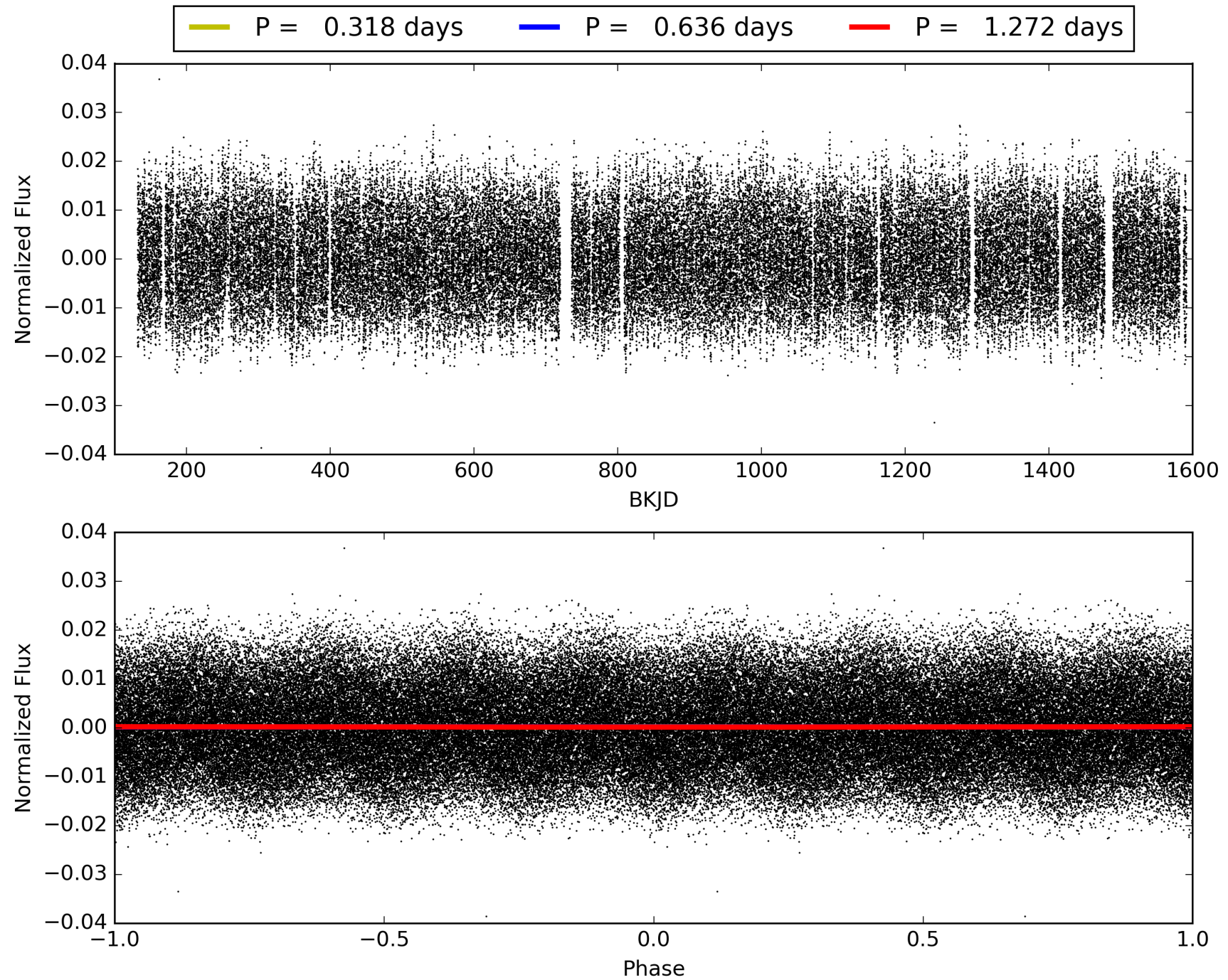
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.81 [1632/2011]
GhostDiagnostic-chr: 3.521
Centroid-sig: 0.4%
Centroid-so: 0.184 arcsec [5.08σ]
OotOffset-rm: 0.064 arcsec [0.73σ]
KicOffset-rm: 0.122 arcsec [1.29σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006388333-02, PDC Light Curves

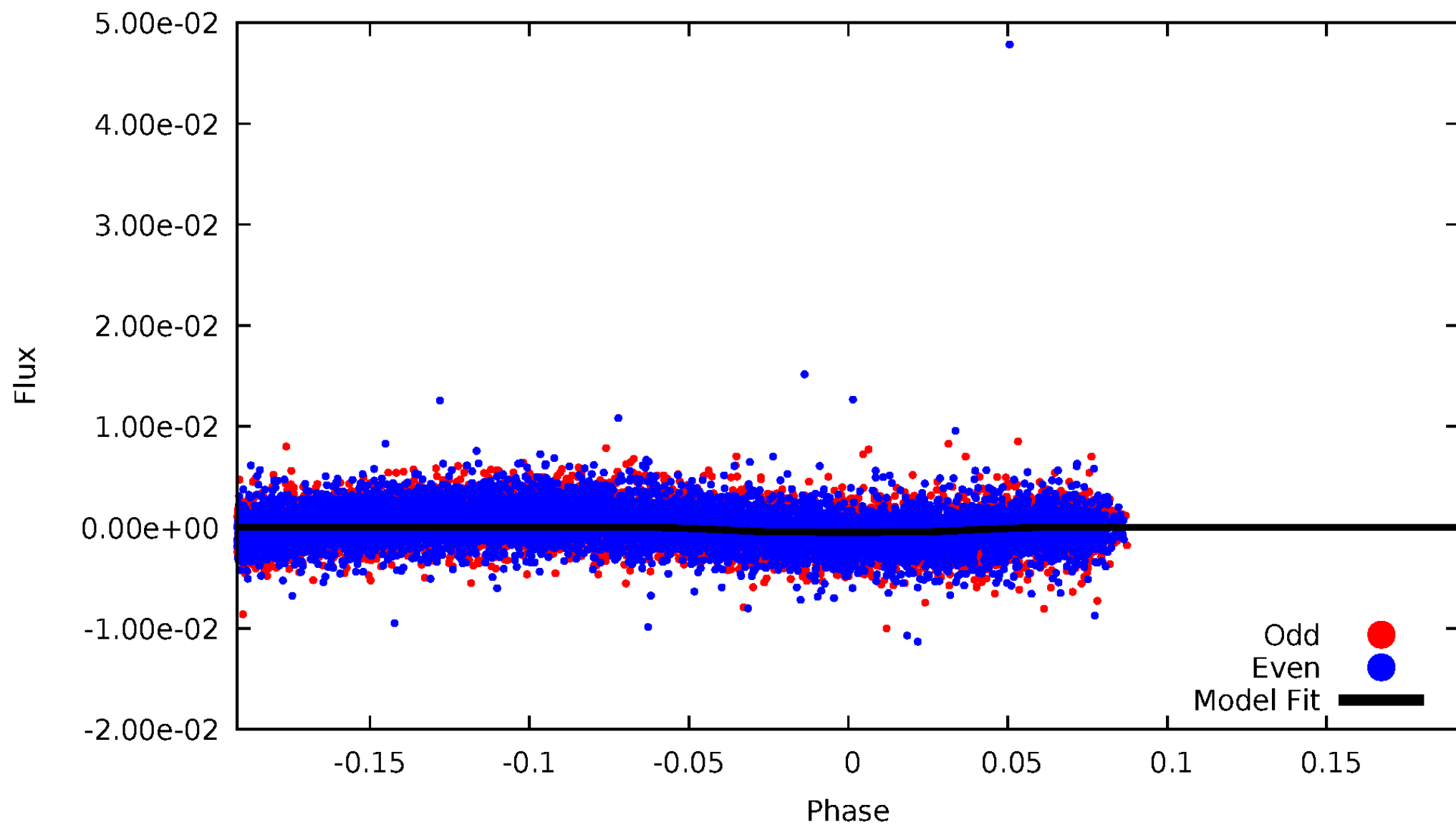


TCE 006388333-02



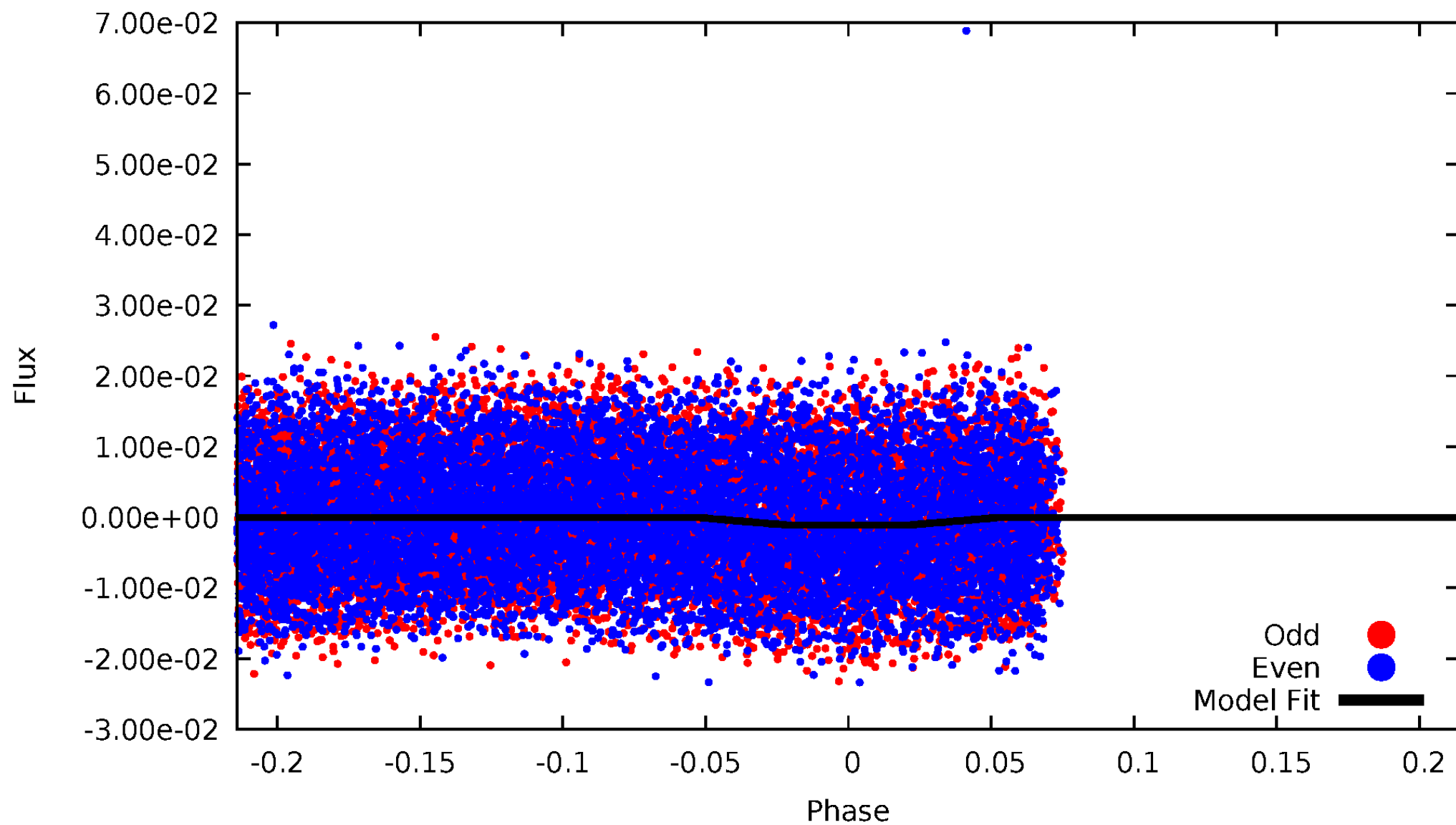
DV Odd/Even

TCE 006388333-02



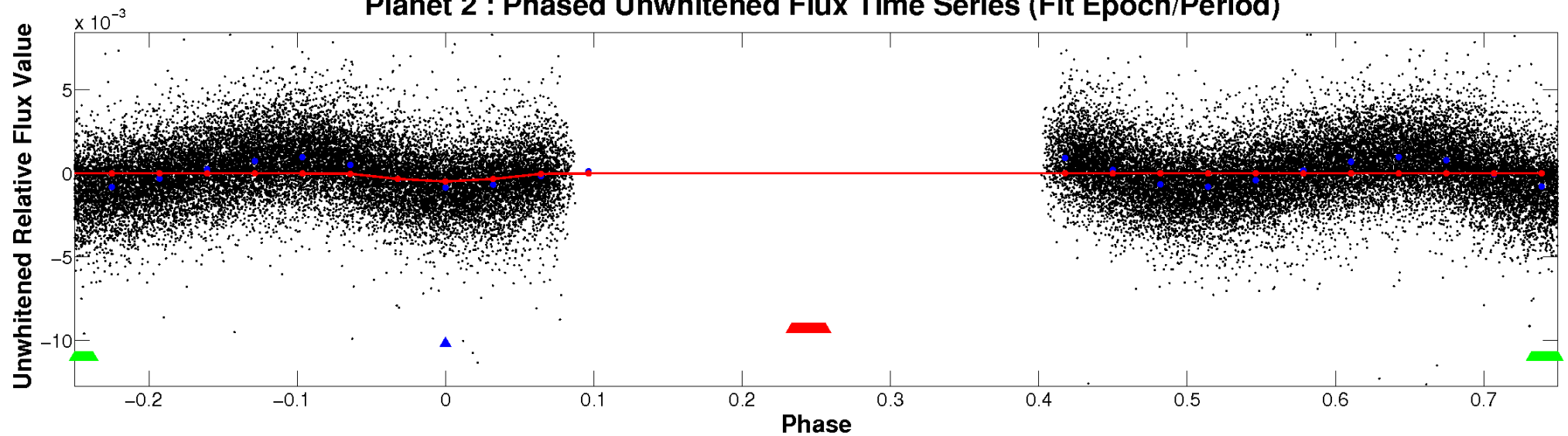
ALT Odd/Even

TCE 006388333-02

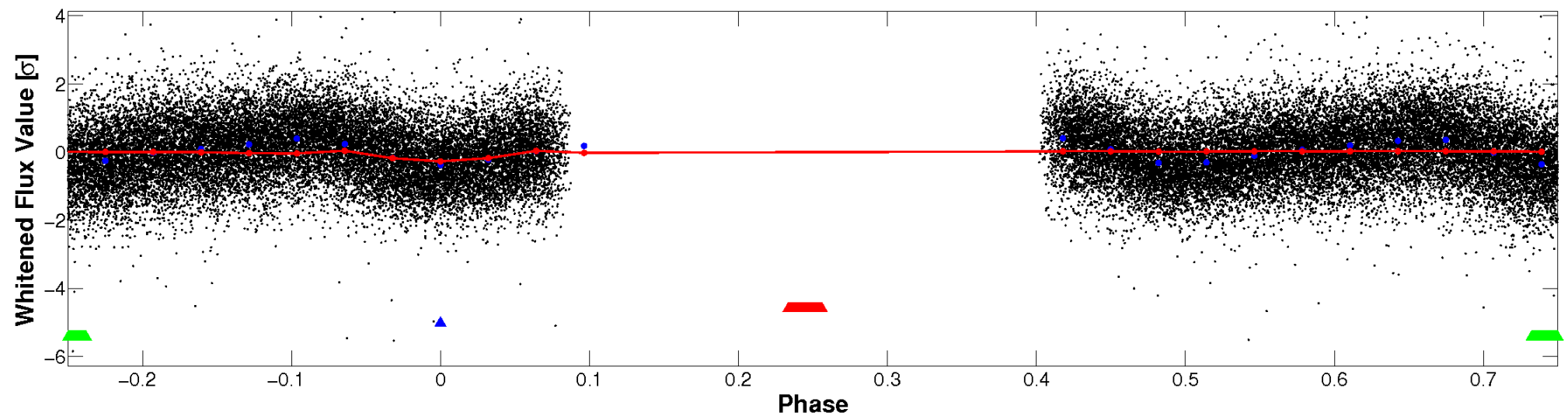


Non-Whitened Vs. Whitened Light Curve

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

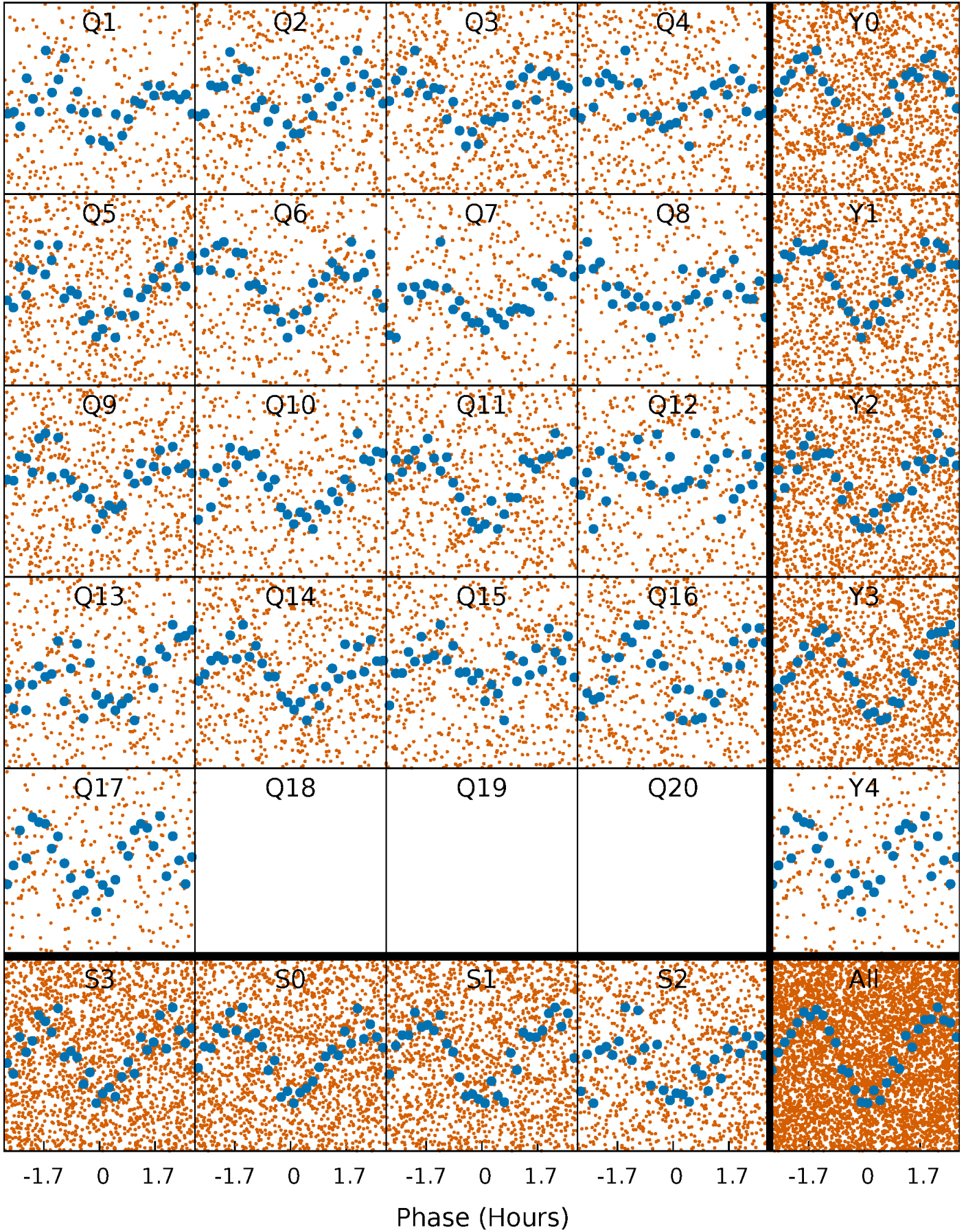


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



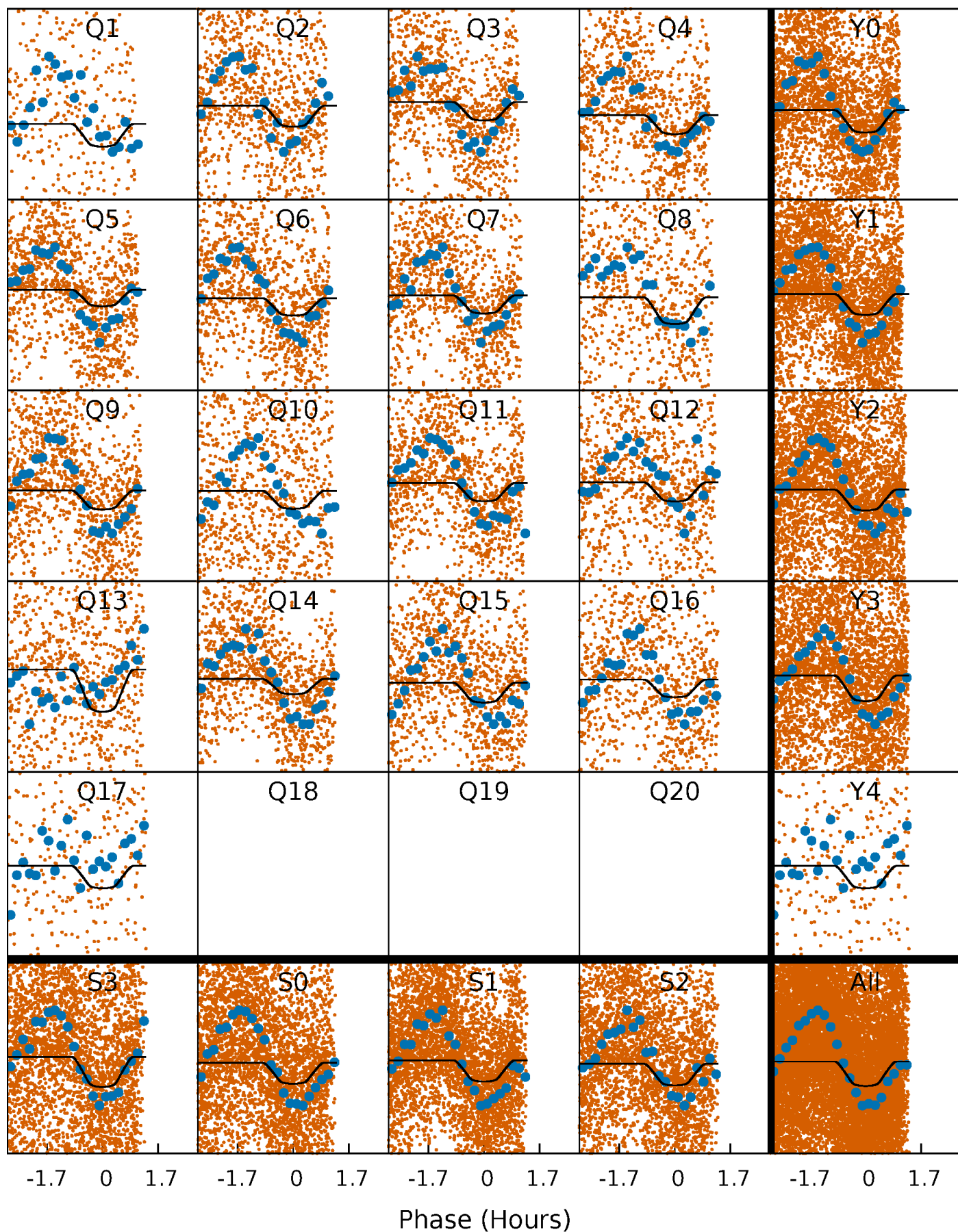
PDC Quarter-Phased Transit Curves

TCE 006388333-02 P= 0.635893 Days $T_0=131.740588$ (BKJD)



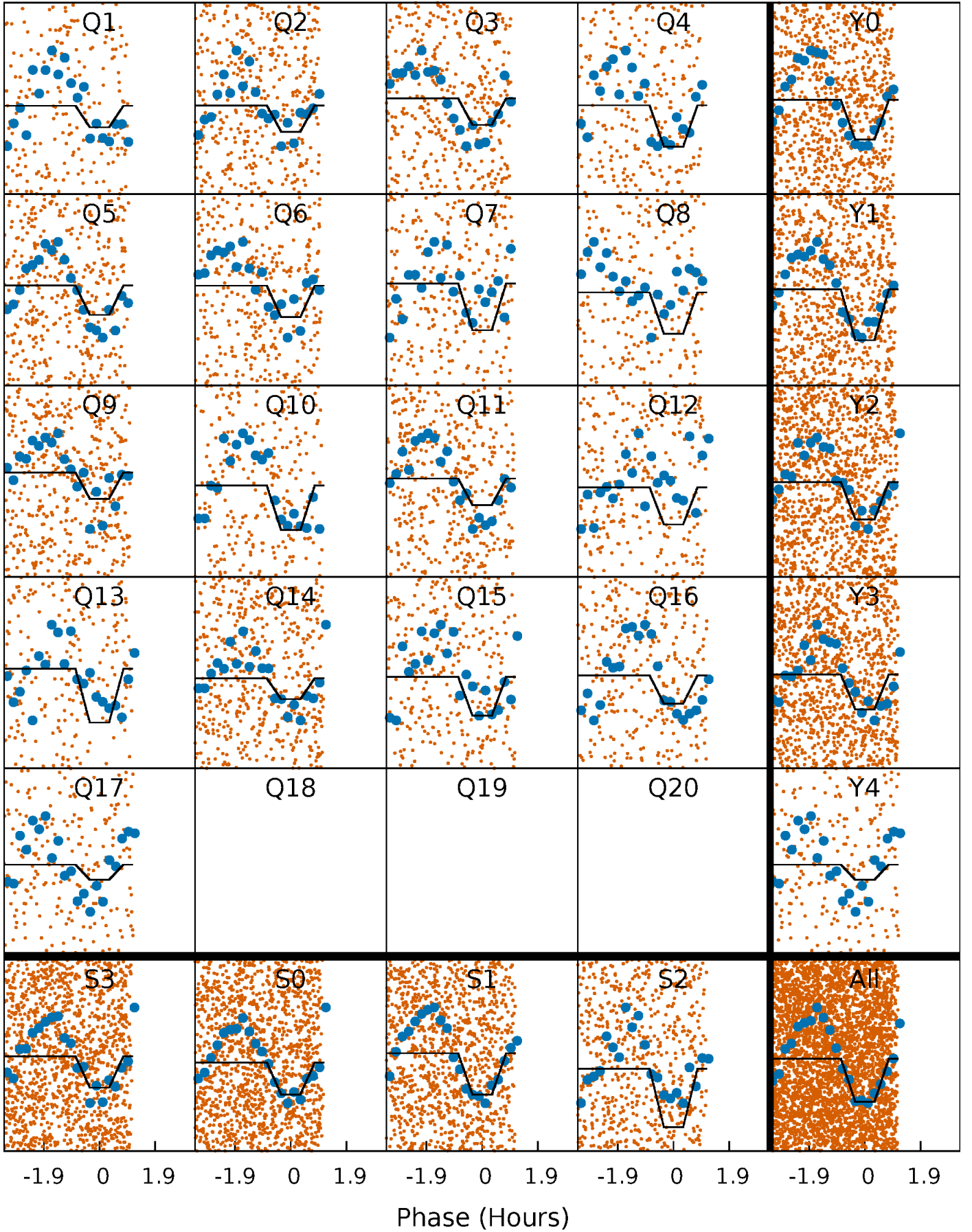
DV Quarter-Phased Transit Curves

TCE 006388333-02 P= 0.635893 Days $T_0=131.740588$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

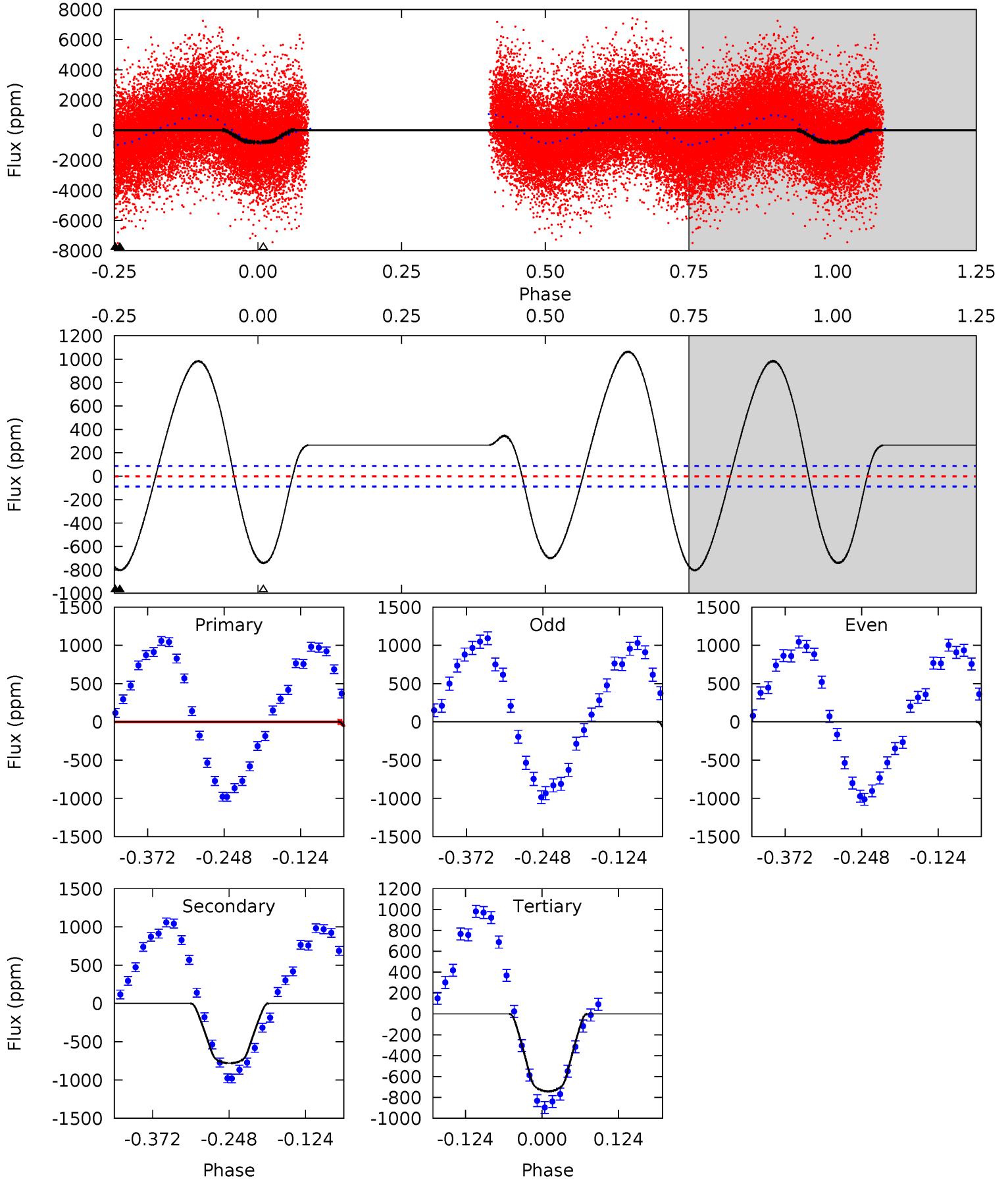
TCE 006388333-02 P= 0.635896 Days $T_0=131.741817$ (BKJD)



DV Model-Shift Uniqueness Test

006388333-02, P = 0.635893 Days, E = 131.104695 Days

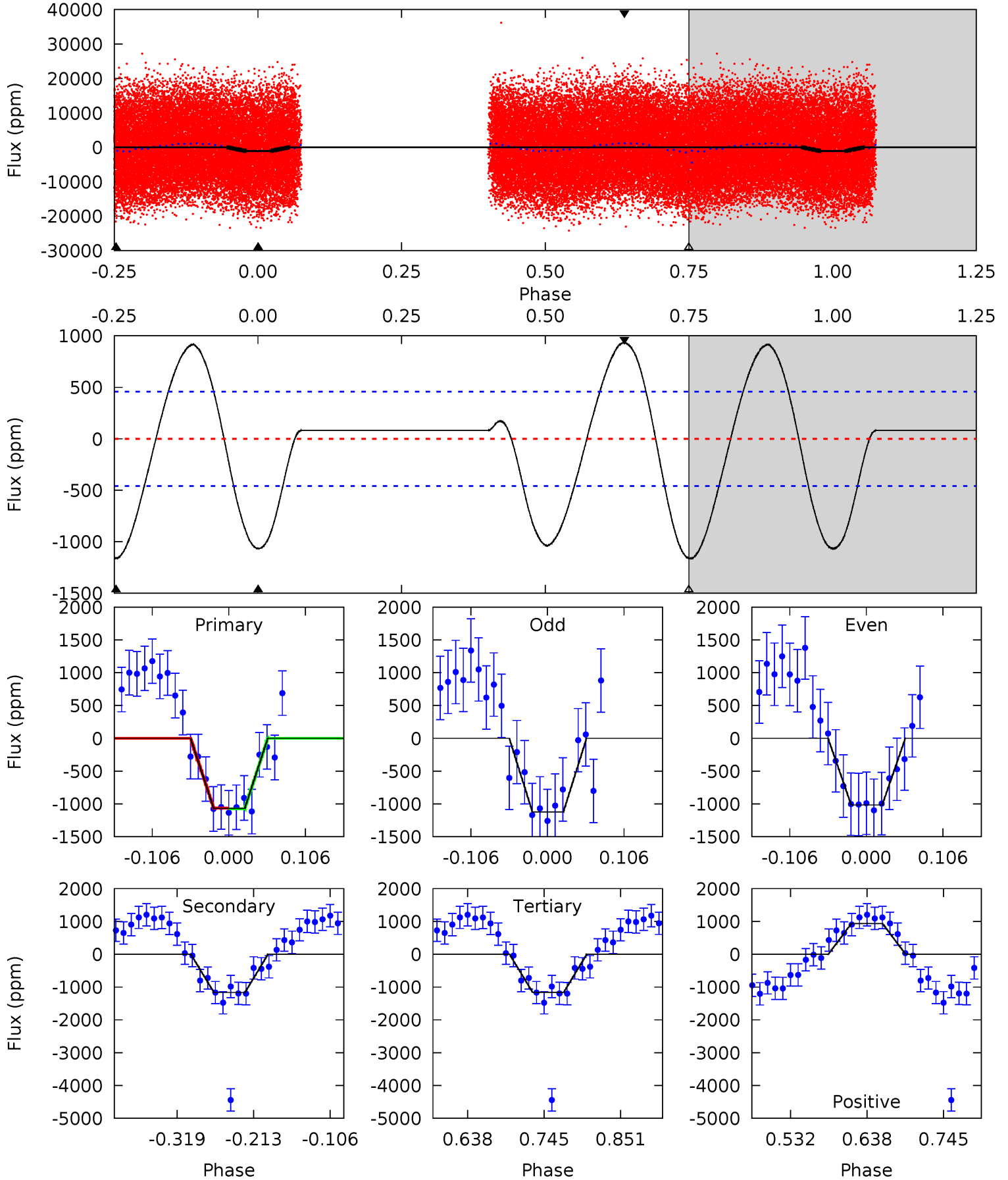
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.5	40.3	38.2	0	4.52	1.54	29.0	3.22	41.5	2.05	40.3	0.94	1.06	0.57	6.72



Alt Model-Shift Uniqueness Test

006388333-02, P = 0.635896 Days, E = 131.105921 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	11.6	11.5	9.31	4.55	1.61	6.90	-0.92	1.31	0.04	2.26	0.53	0.79	0.45	0.05



Stellar Parameters For KIC 006388333

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6355^{+151}_{-189}	$4.289^{+0.128}_{-0.192}$	$-0.100^{+0.250}_{-0.300}$	$1.265^{+0.404}_{-0.218}$	$1.134^{+0.181}_{-0.148}$	$0.789^{+0.489}_{-0.408}$
	+2%/-3%	+3%/-4%	+250%/-300%	+32%/-17%	+16%/-13%	+62%/-52%
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 006388333-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-781±19	$3.28^{+0.72}_{-0.61}$	3605^{+251}_{-212}	6903^{+710}_{-561}	$9.065^{+4.427}_{-2.814}$
Alt.	-1165±101	$4.58^{+0.96}_{-0.70}$	3594^{+276}_{-210}	6368^{+484}_{-396}	$6.956^{+2.663}_{-2.112}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming A=0.3)

A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

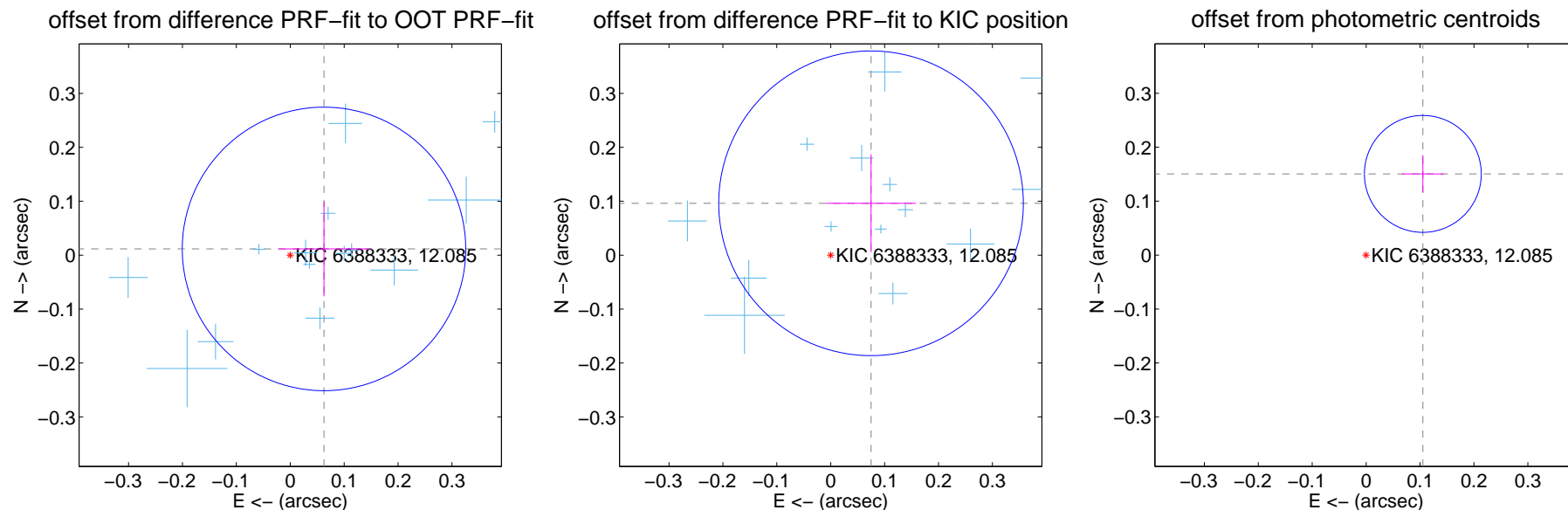
DV Centroid Data

Supplemental centroid analysis for 006388333-02. Kepler magnitude: 12.09. Transit SNR 18.38

There are 16 quarters with good PRF difference image offsets

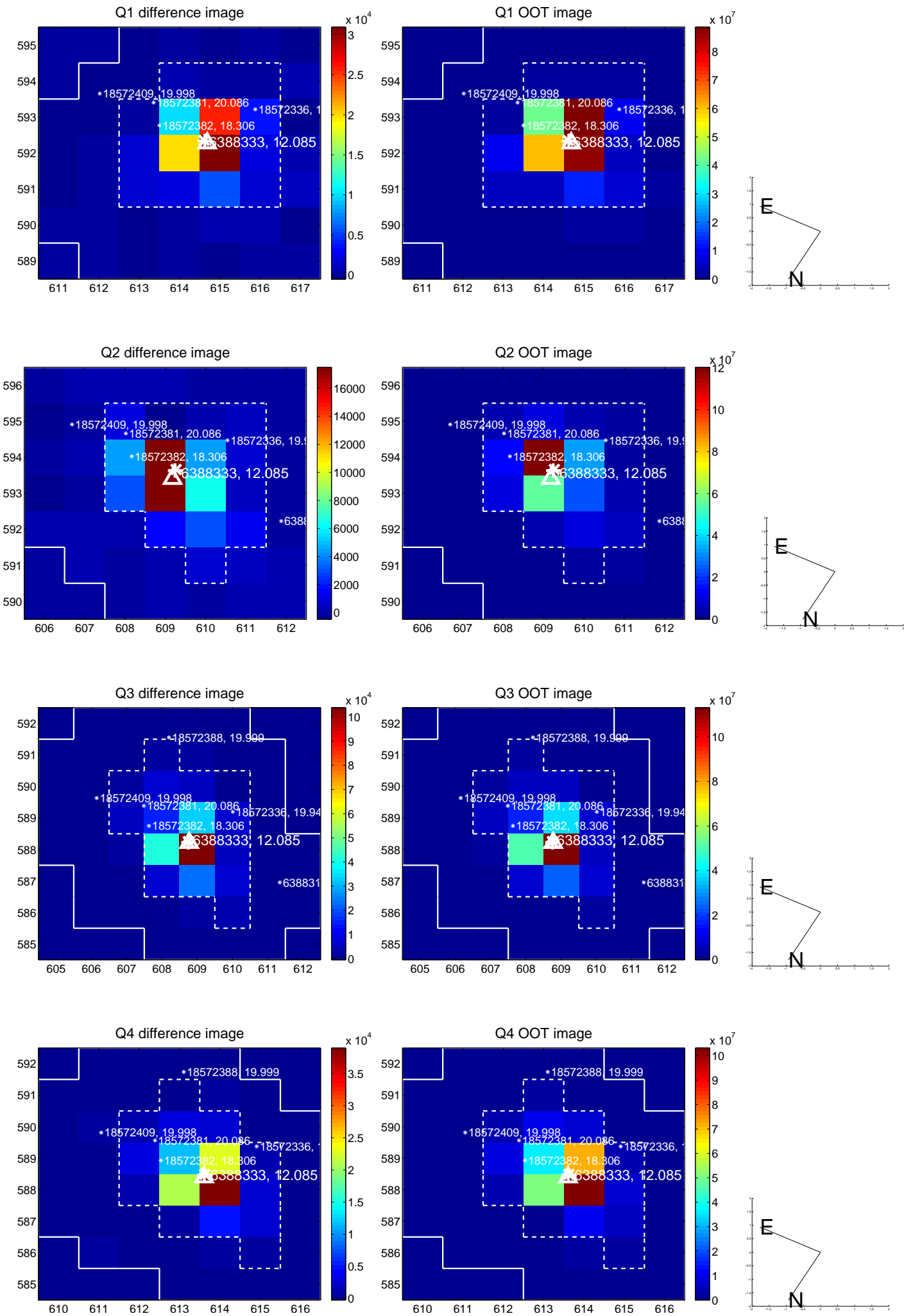
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.064 ± 0.088	0.73	-0.063 ± 0.085	0.012 ± 0.088
PRF-fit source offset from KIC position	0.122 ± 0.094	1.29	-0.075 ± 0.083	0.096 ± 0.091
photometric centroid source offset	0.18 ± 0.04	5.08	-0.11 ± 0.04	0.15 ± 0.03

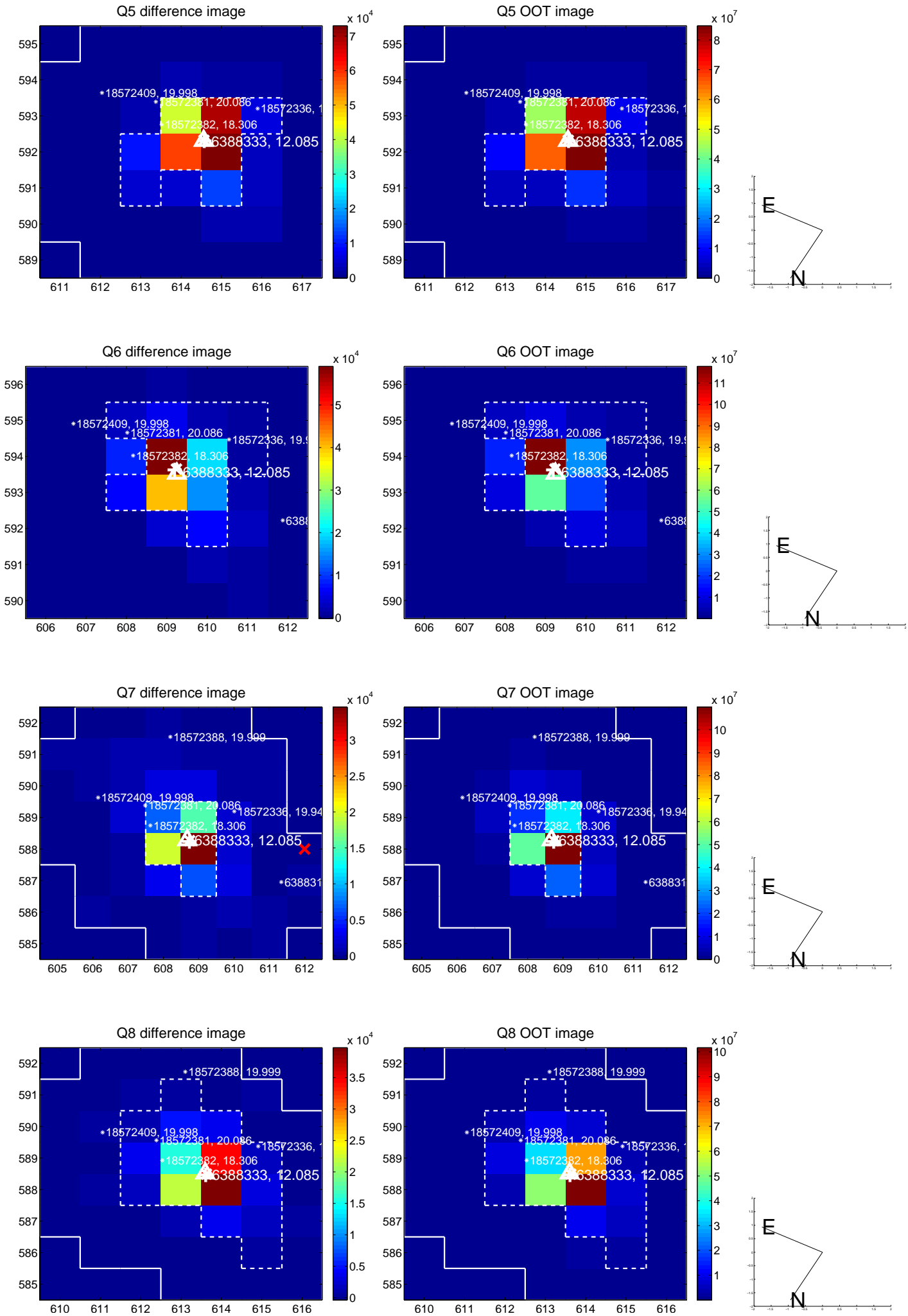


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

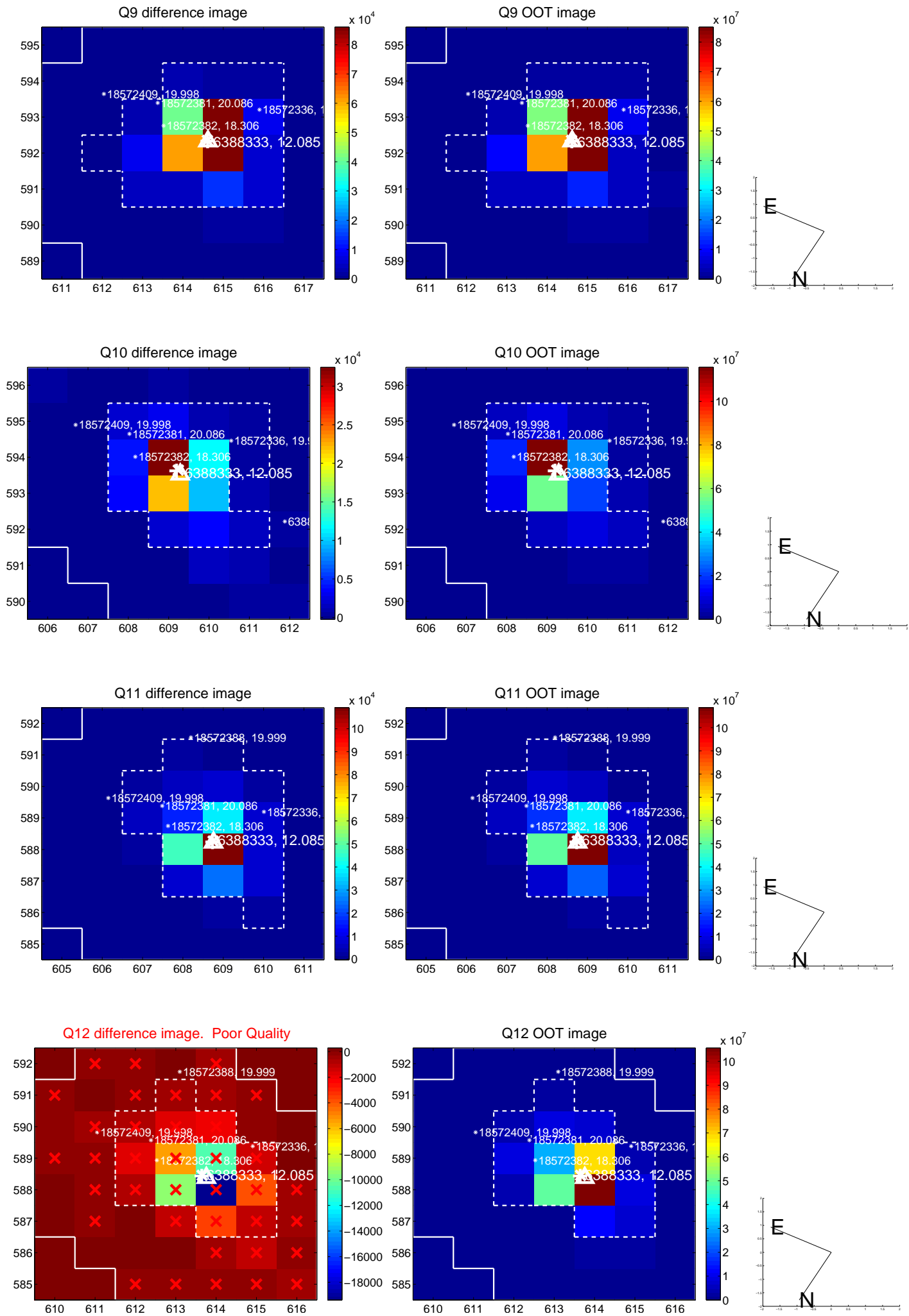
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



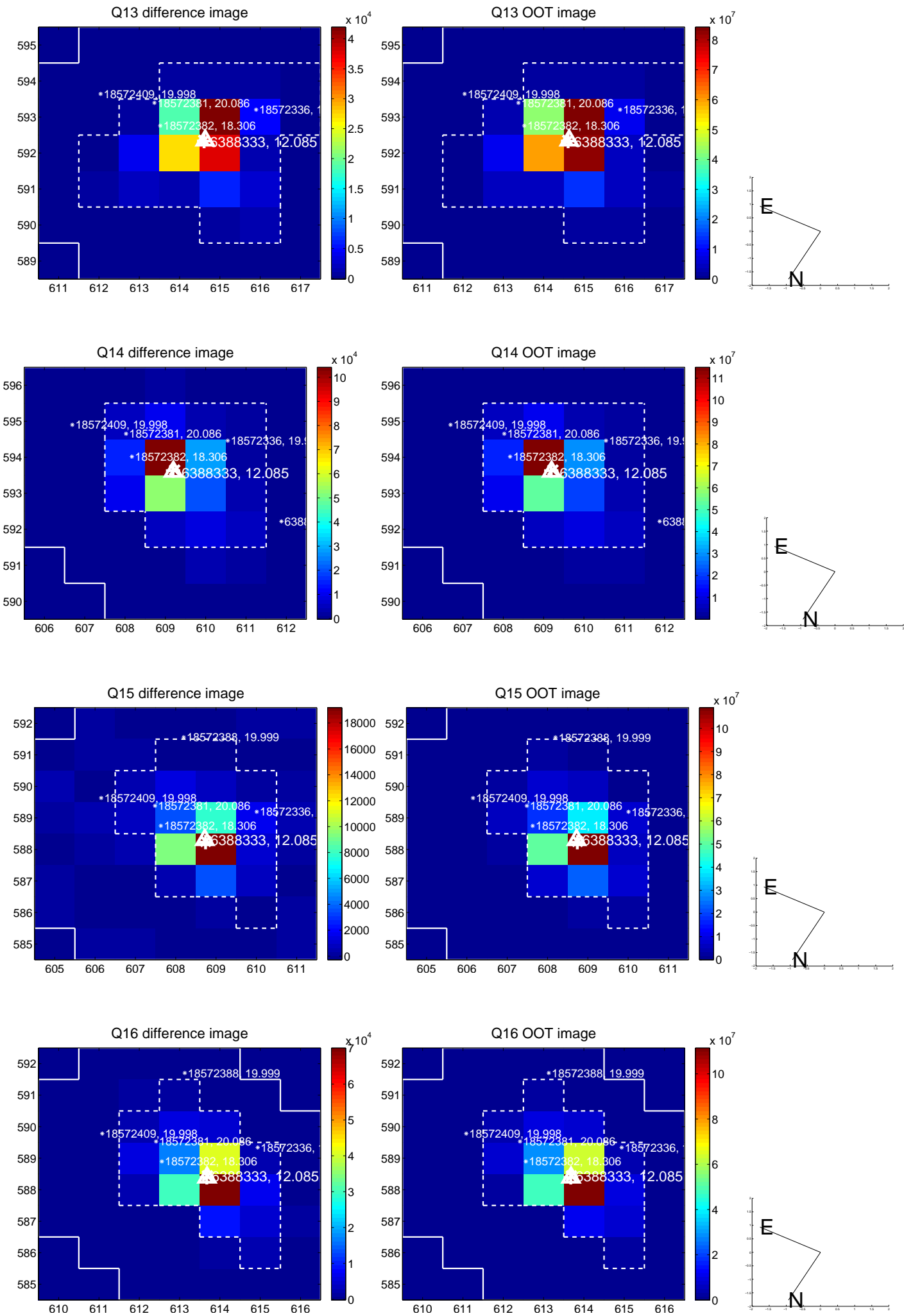
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



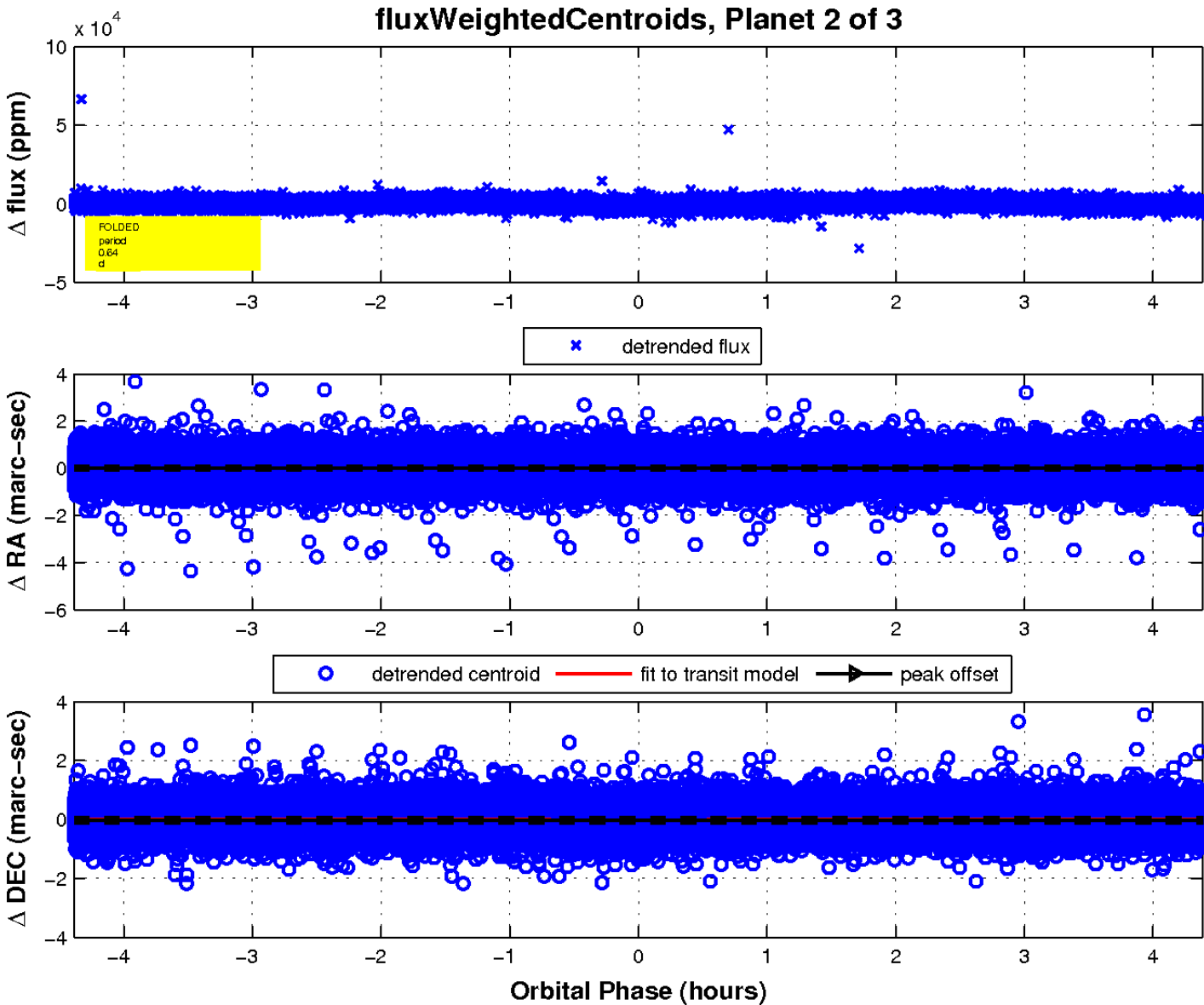
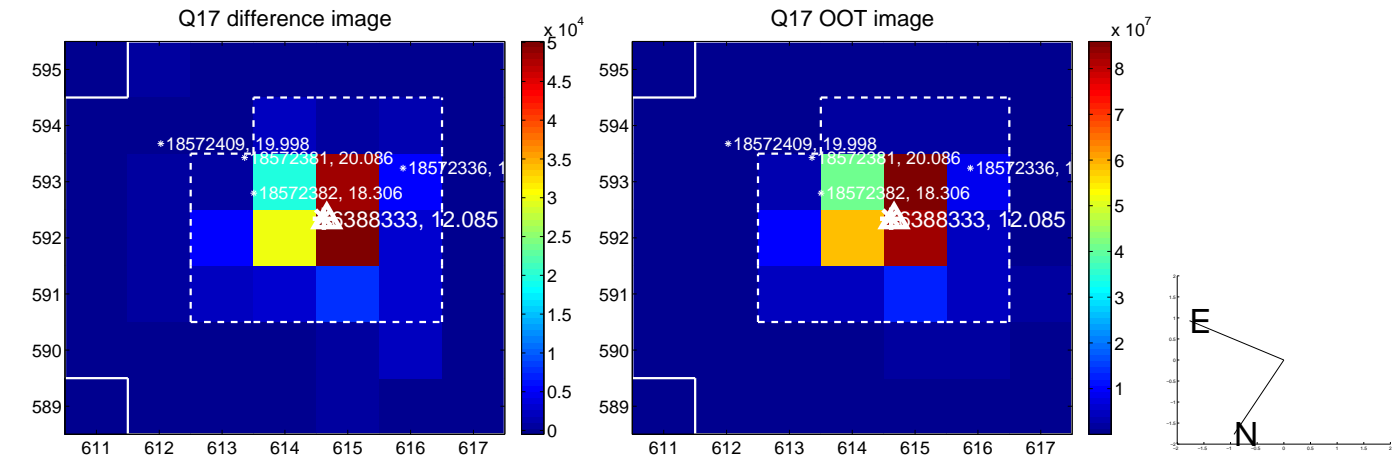
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

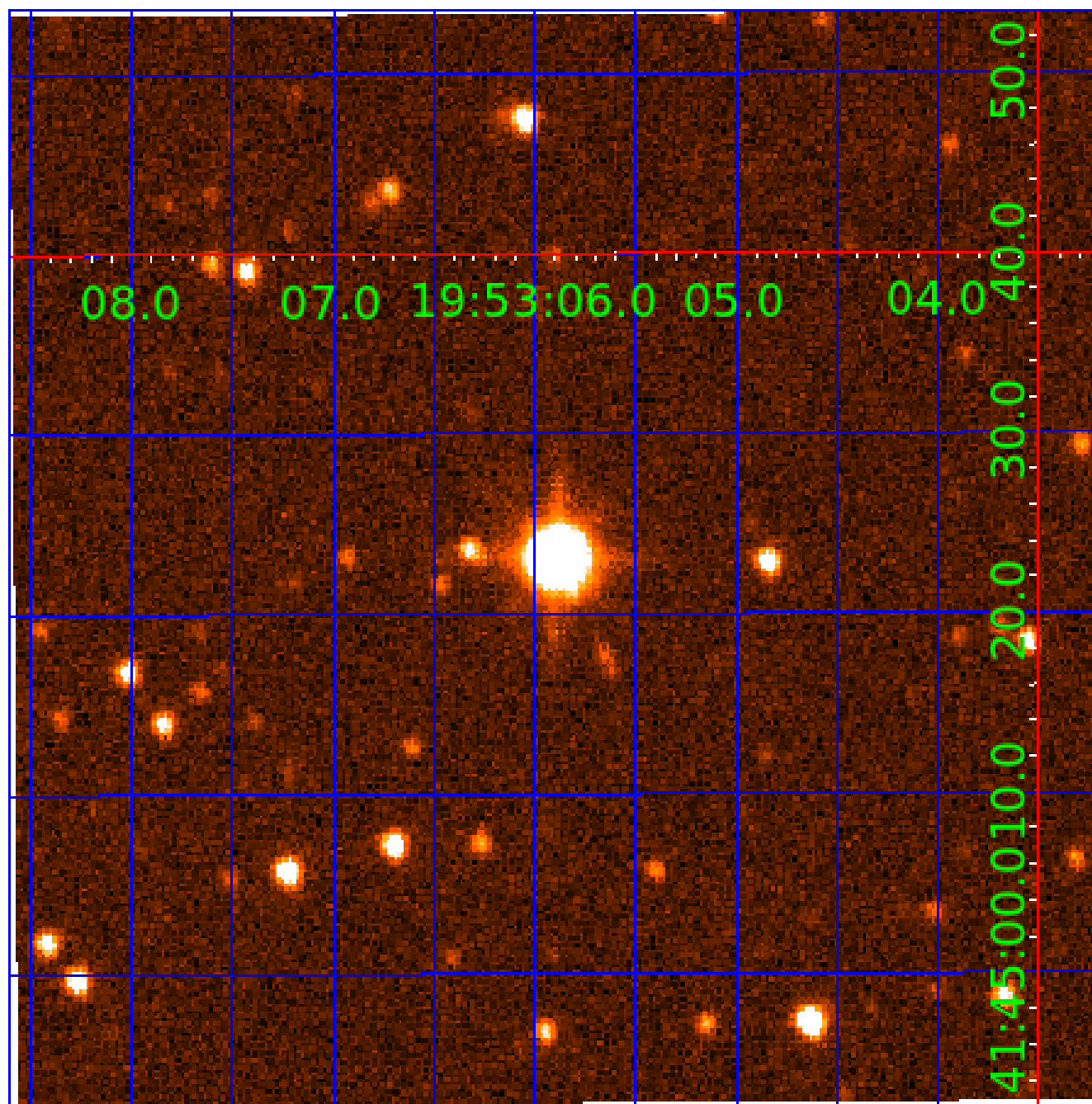


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006388333

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})
006388333-01	OBS	No	0.635900	131.889041	493.2	1.546	16.9	20.2	1.26	6355	3.30	10254.13
006388333-02	OBS	No	0.635893	131.740588	482.7	1.462	15.8	18.4	1.26	6355	3.28	10254.26
006388333-03	OBS	No	0.635902	131.570369	188.9	1.500	17.1	-1.0	1.26	6355	1.75	10254.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006388333-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006388333-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
006388333-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

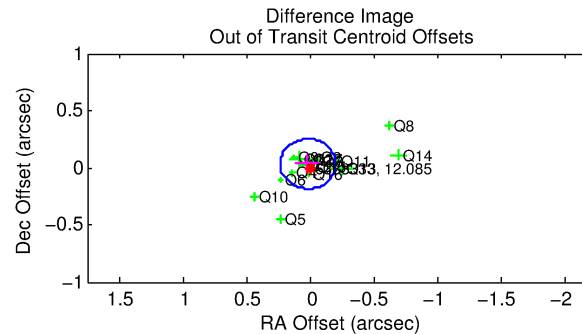
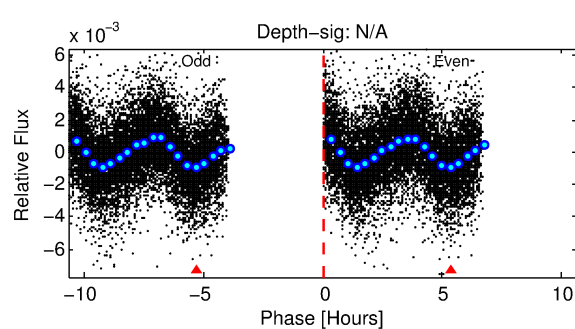
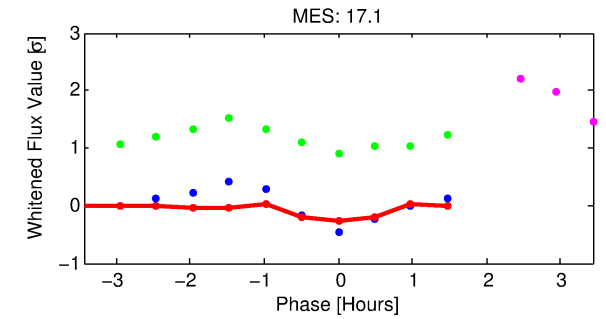
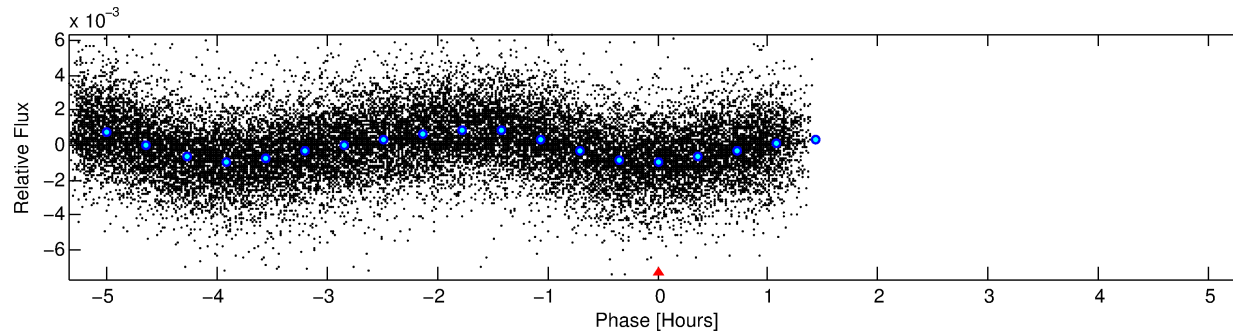
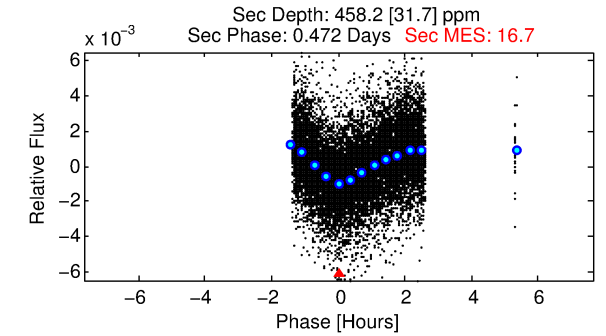
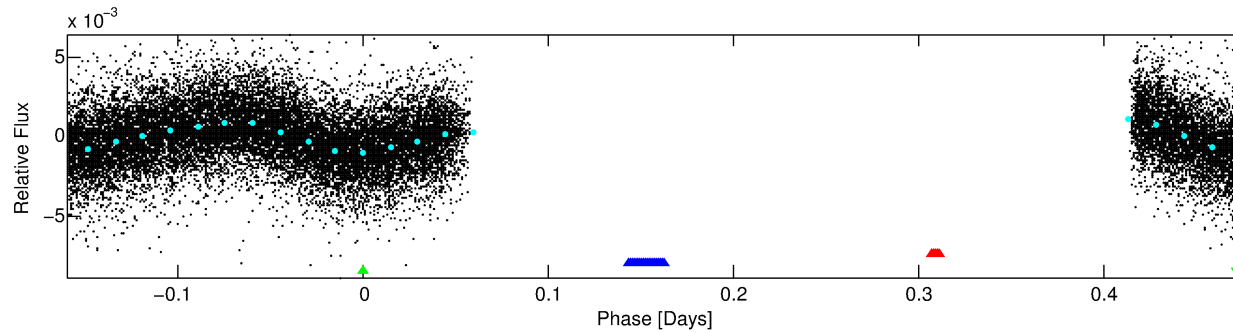
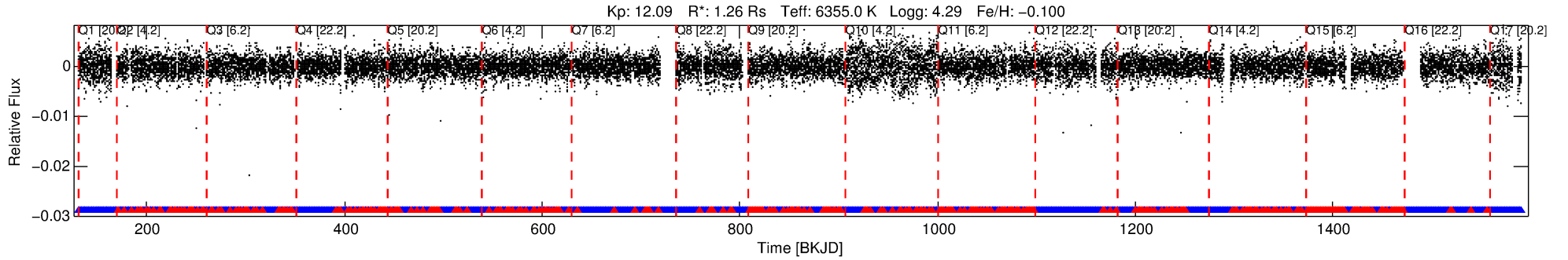
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006388333-03

No Significant Match Found

DV One-Page Summary

KIC: 6388333 Candidate: 3 of 3 Period: 0.636 d



TPS TCE Results:

Period = 0.63590 d
Epoch = 131.5704 BKJD

DV fit results are unavailable

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: 0.79 [1582/2009]

GhostDiagnostic-chr: 1.854

Centroid-sig: 0.0%

Centroid-so: 0.175 arcsec [13.07σ]

OotOffset-rm: 0.038 arcsec [0.52σ]

KicOffset-rm: 0.122 arcsec [1.46σ]

OotOffset-st: 4/4/4/5 [17]

KicOffset-st: 4/4/4/5 [17]

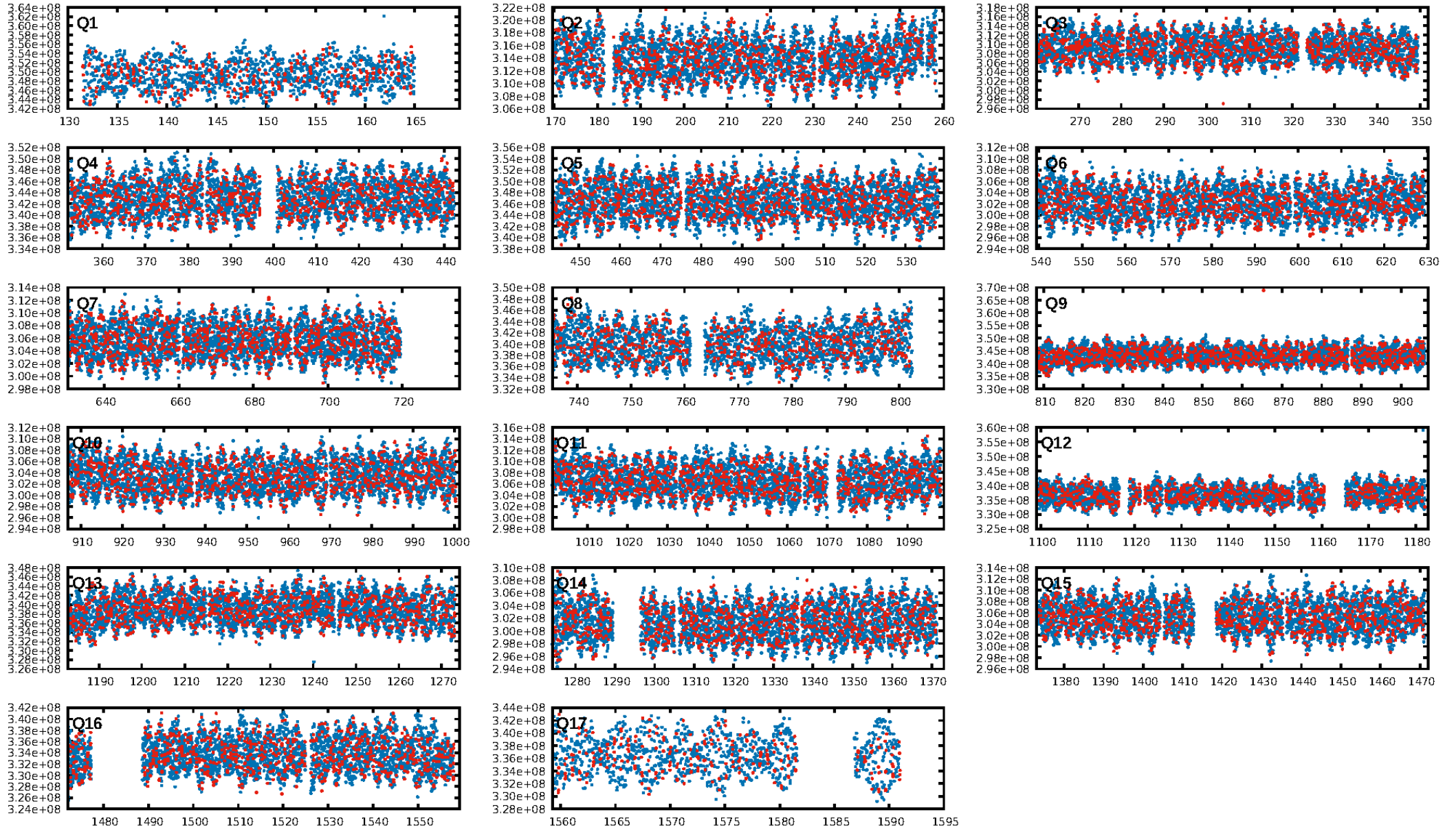
DiffImageQuality-fgm: 1.00 [17/17]

DiffImageOverlap-fno: 0.00 [0/17]

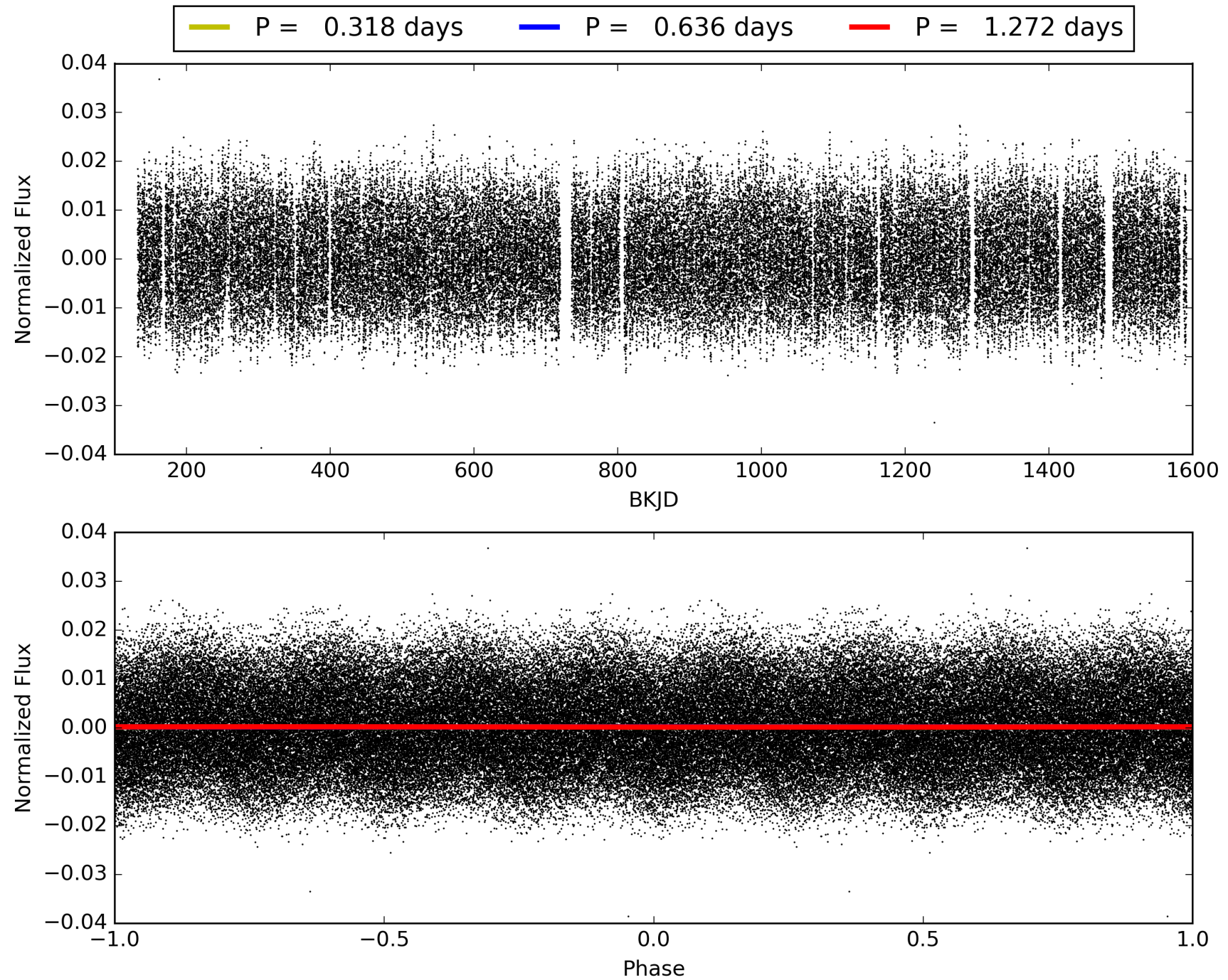
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:29:26 Z

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

TCE 006388333-03, PDC Light Curves

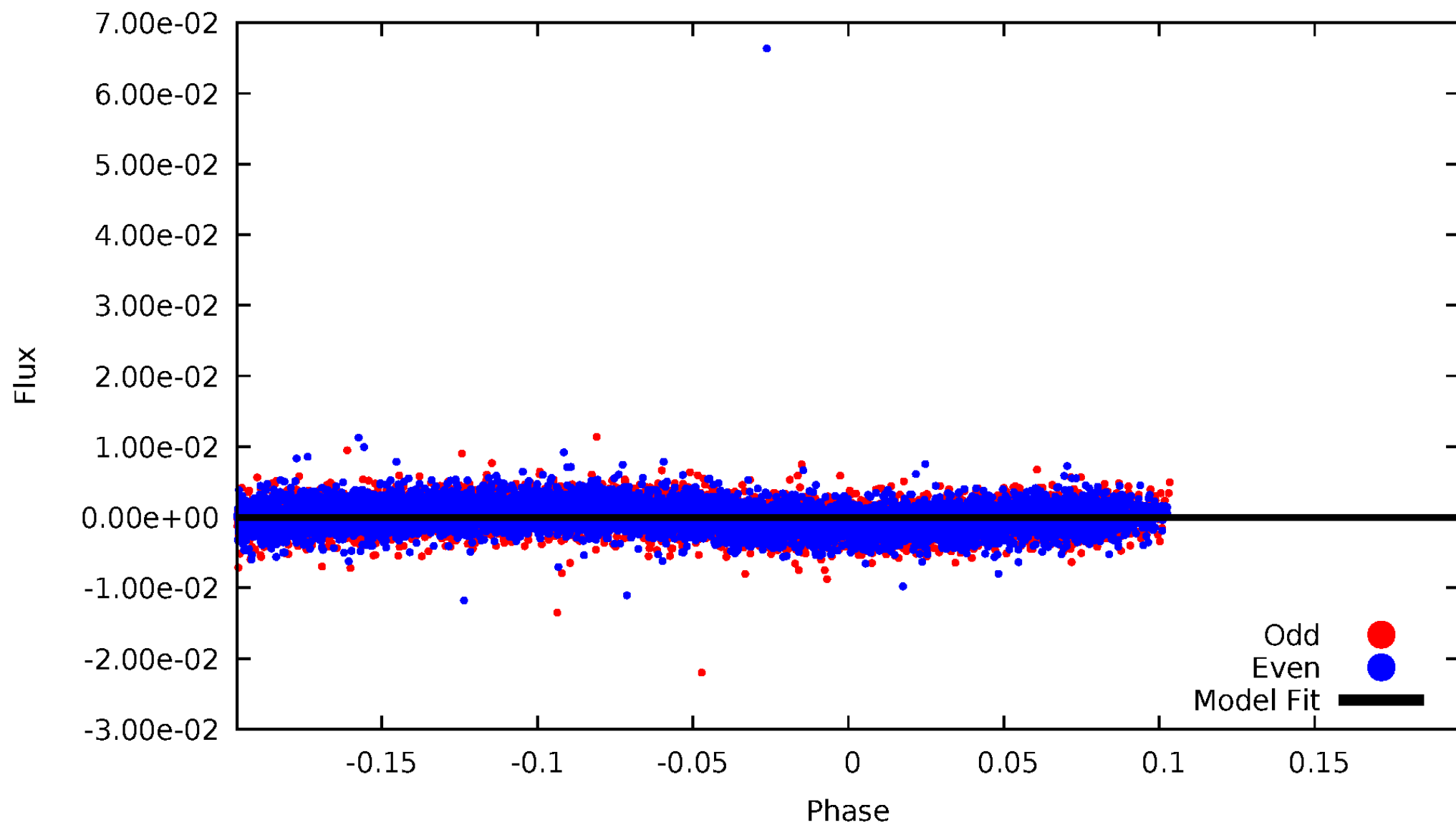


TCE 006388333-03



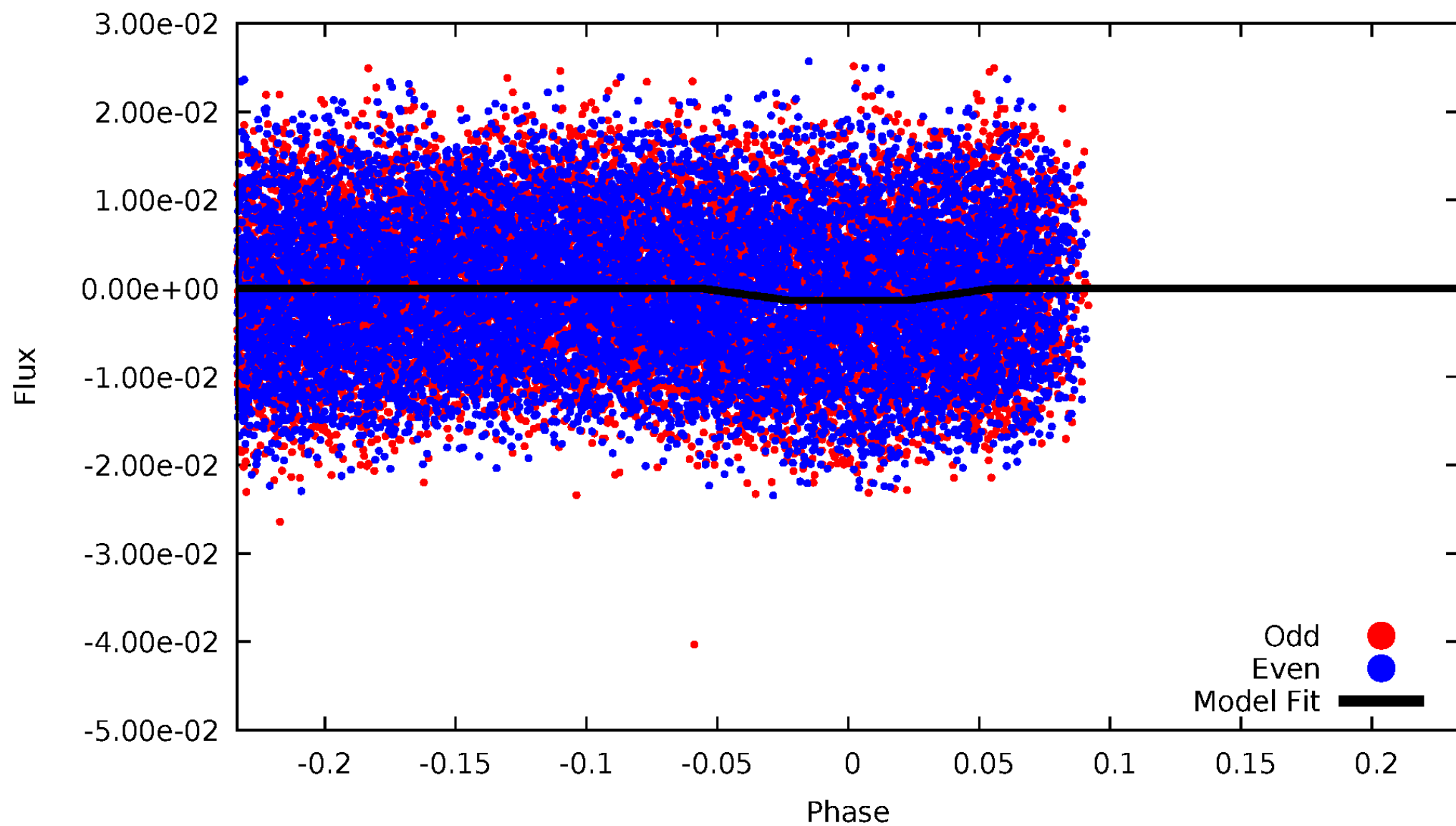
DV Odd/Even

TCE 006388333-03

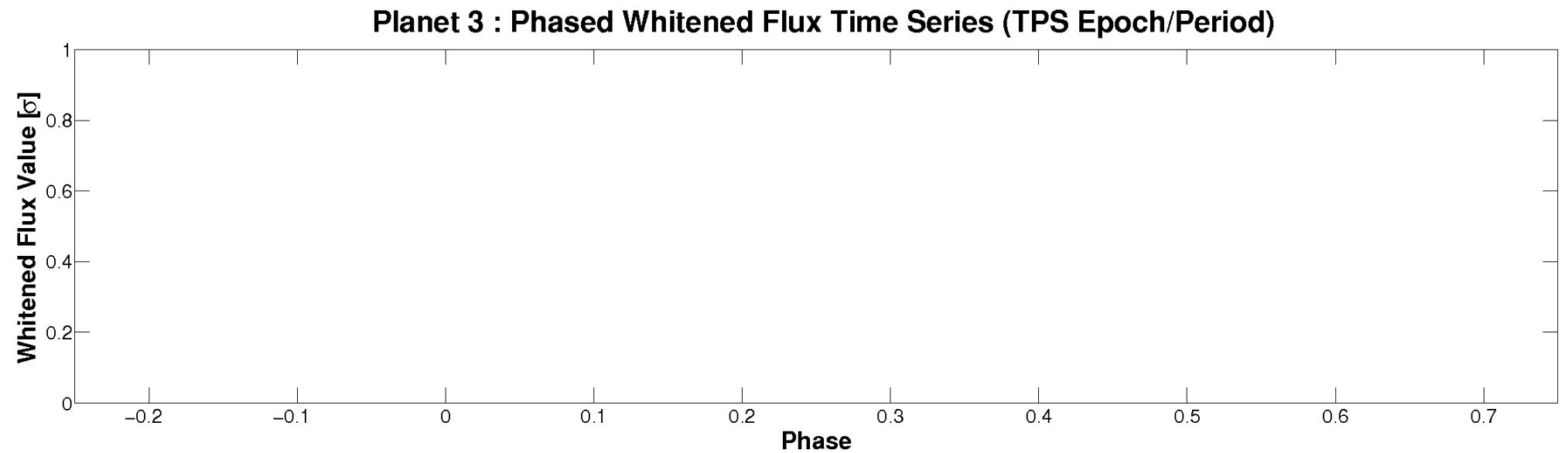
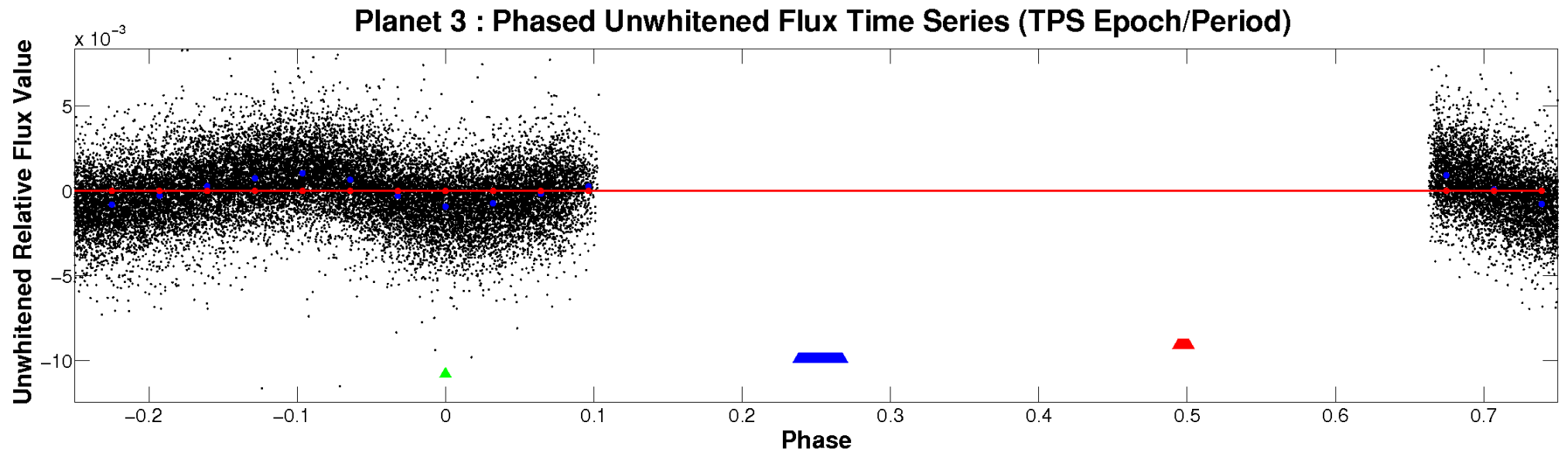


ALT Odd/Even

TCE 006388333-03

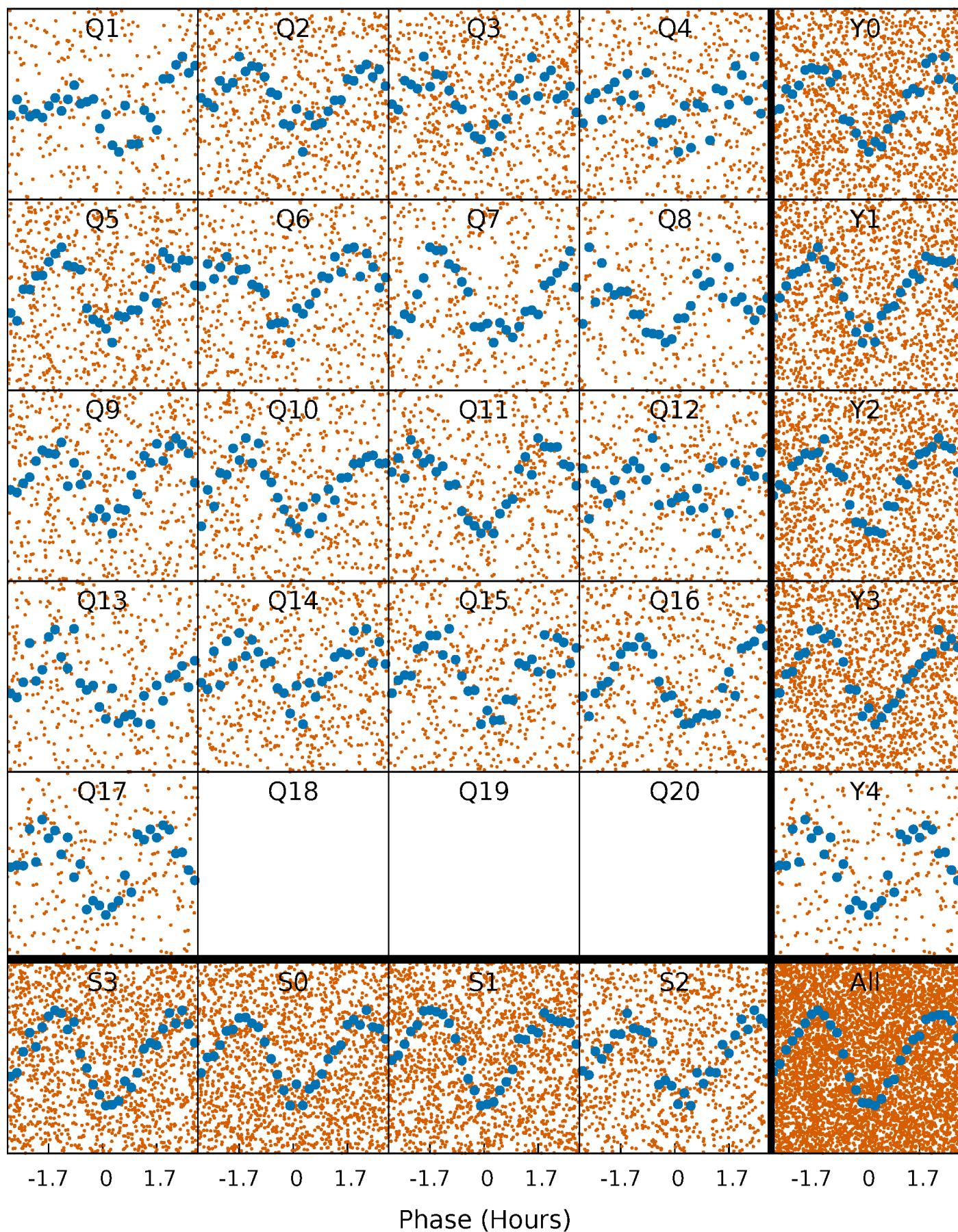


Non-Whitened Vs. Whitened Light Curve



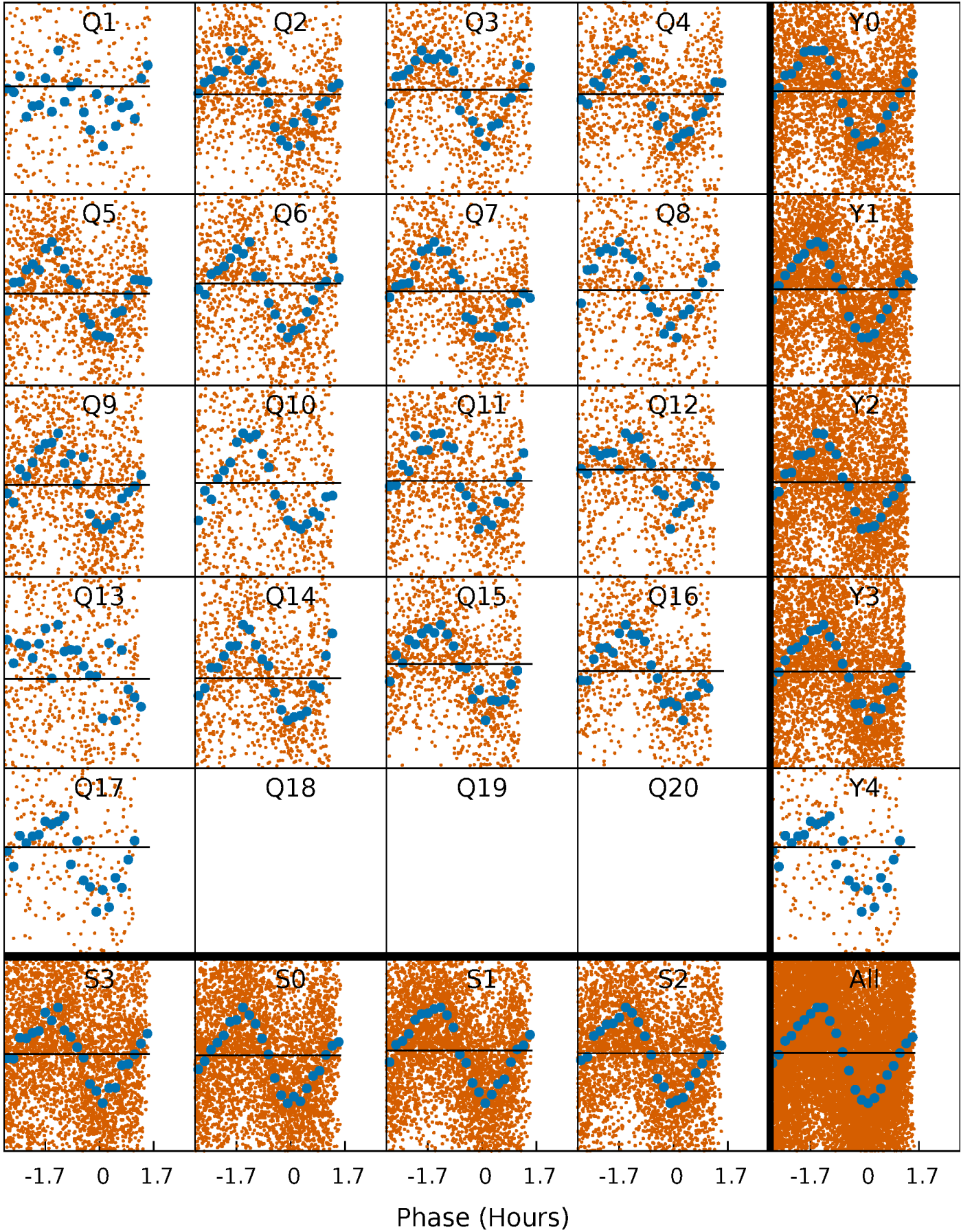
PDC Quarter-Phased Transit Curves

TCE 006388333-03 P= 0.635902 Days $T_0=131.570369$ (BKJD)



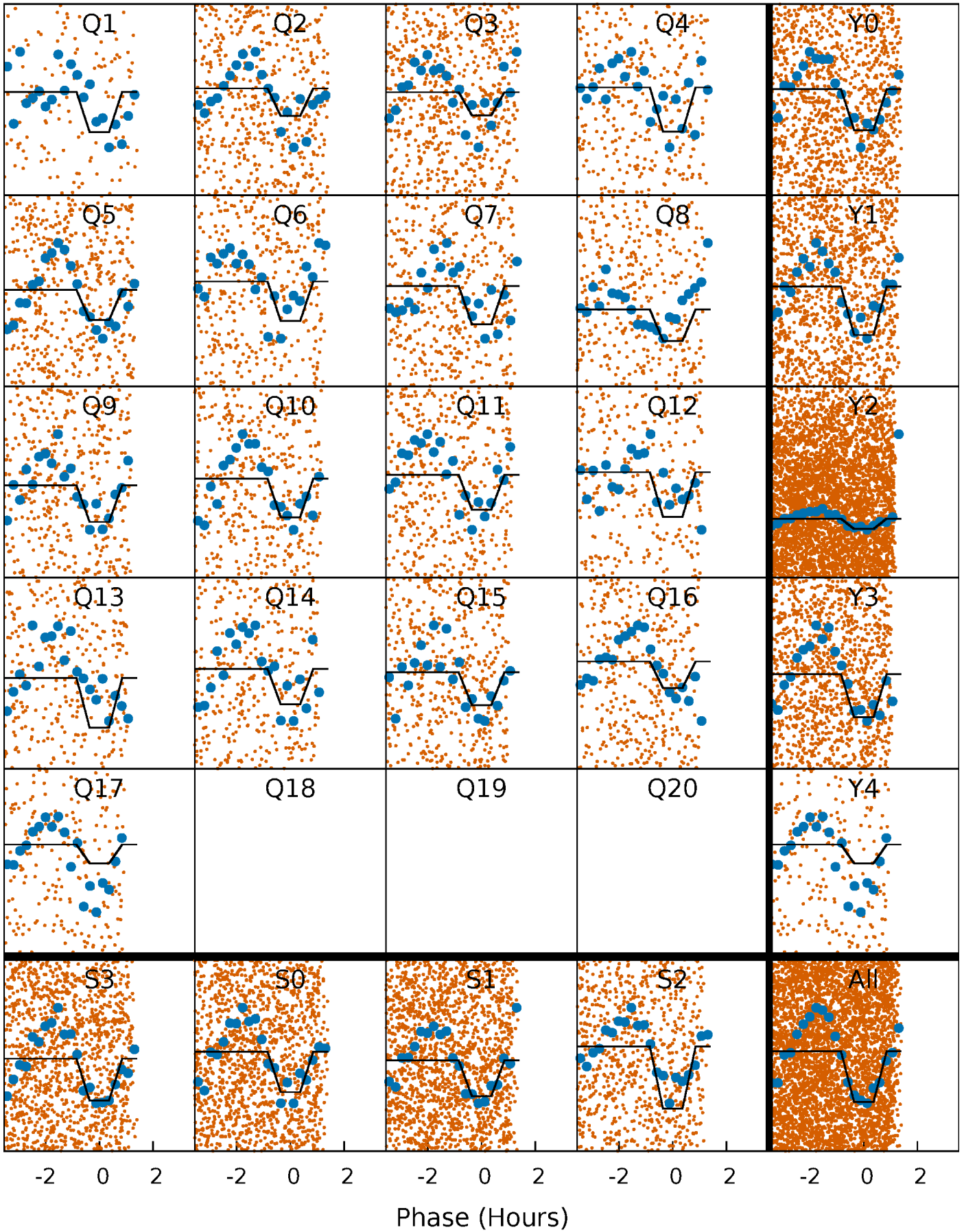
DV Quarter-Phased Transit Curves

TCE 006388333-03 P= 0.635902 Days $T_0=131.570369$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

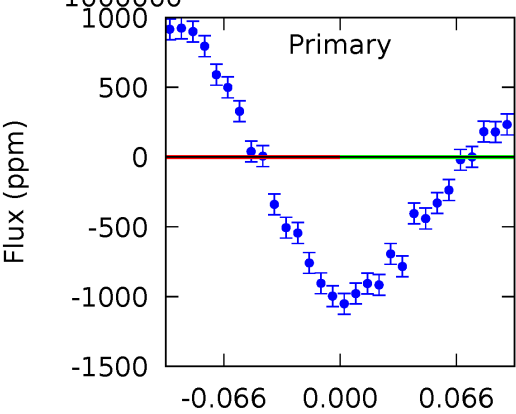
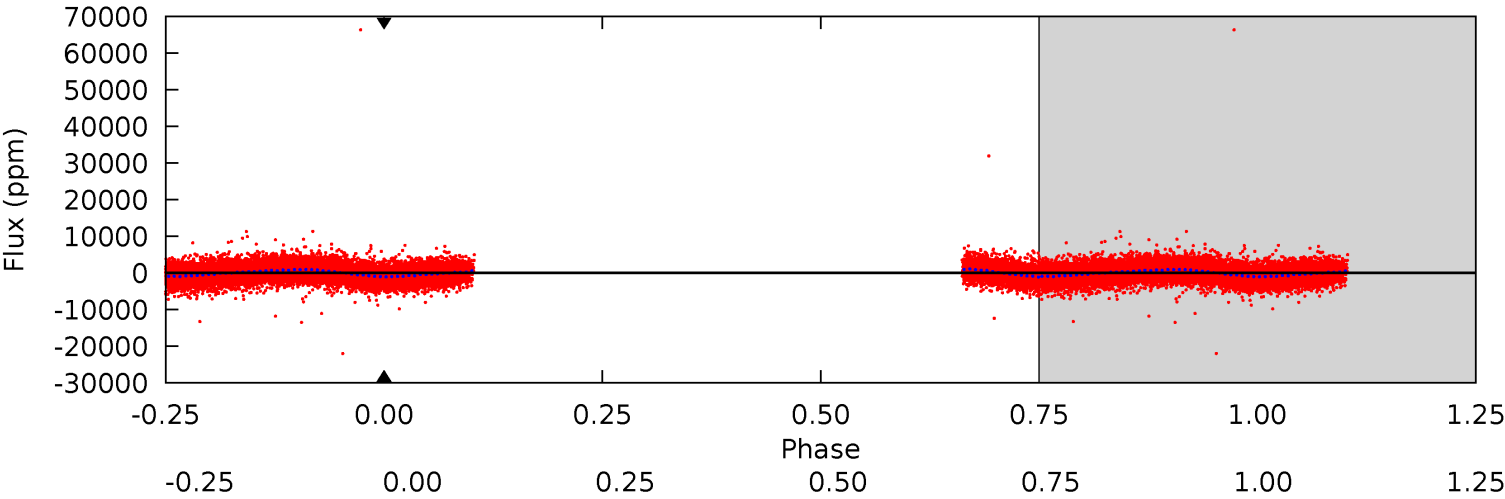
TCE 006388333-03 P= 0.635902 Days $T_0=131.577815$ (BKJD)



DV Model-Shift Uniqueness Test

006388333-03, P = 0.635902 Days, E = 130.934467 Days

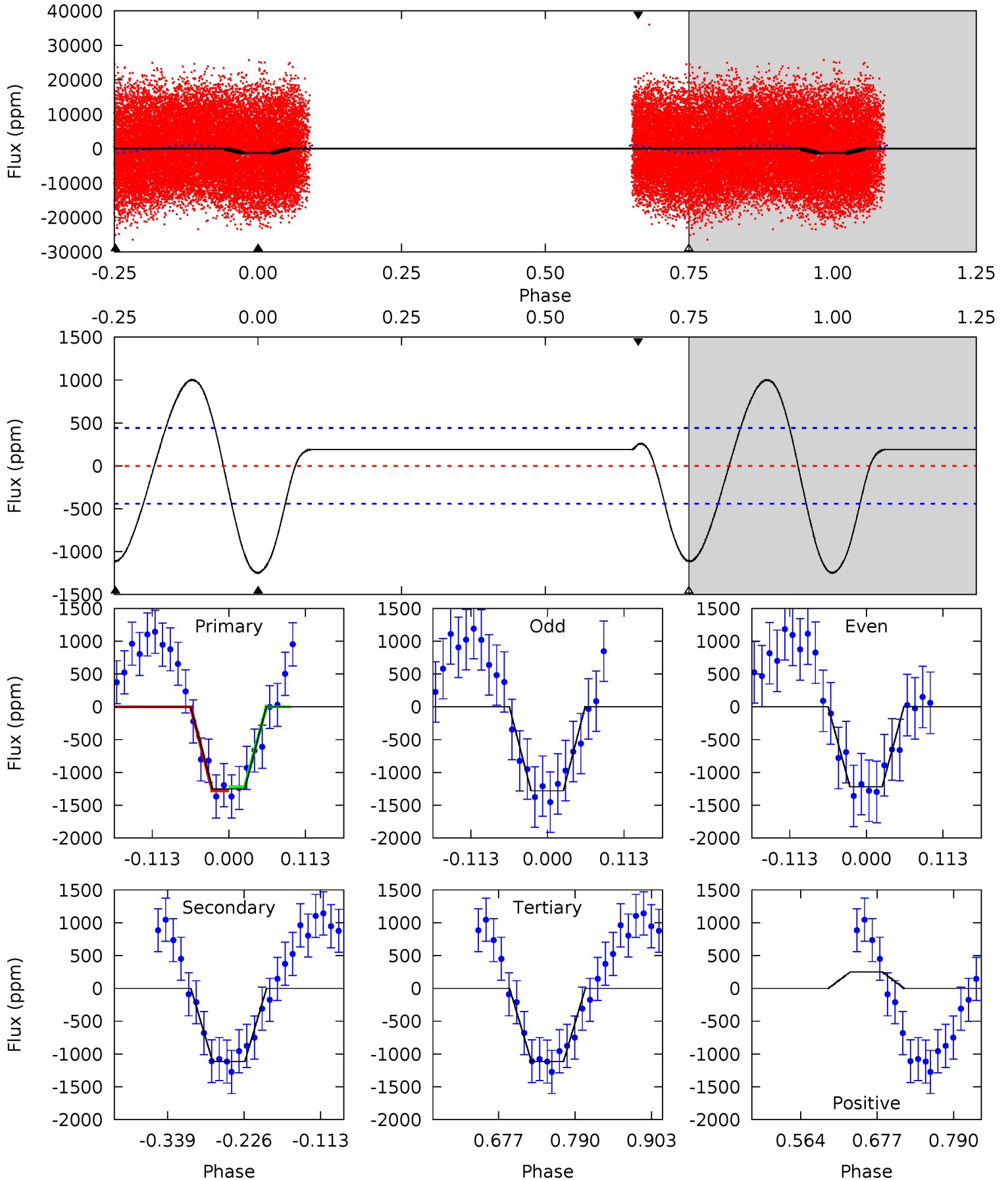
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006388333-03, P = 0.635902 Days, E = 130.941913 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	11.5	11.4	2.57	4.54	1.59	7.07	1.41	10.3	0.02	8.90	0.32	1.04	0.45	0.34



Stellar Parameters For KIC 006388333

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6355^{+151}_{-189}	$4.289^{+0.128}_{-0.192}$	$-0.100^{+0.250}_{-0.300}$	$1.265^{+0.404}_{-0.218}$	$1.134^{+0.181}_{-0.148}$	$0.789^{+0.489}_{-0.408}$
	+2%/-3%	+3%/-4%	+250%/-300%	+32%/-17%	+16%/-13%	+62%/-52%
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 006388333-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$10.06^{+10.40}_{-7.00}$	3600^{+258}_{-221}	-5383^{+34016}_{-25752}	$-2.717^{+258.249}_{-249.905}$
Alt.	-1114 ± 97	$10.91^{+12.03}_{-7.68}$	3607^{+292}_{-203}	4123^{+3493}_{-6613}	$1.142^{+12.611}_{-0.870}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming A=0.3)

A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

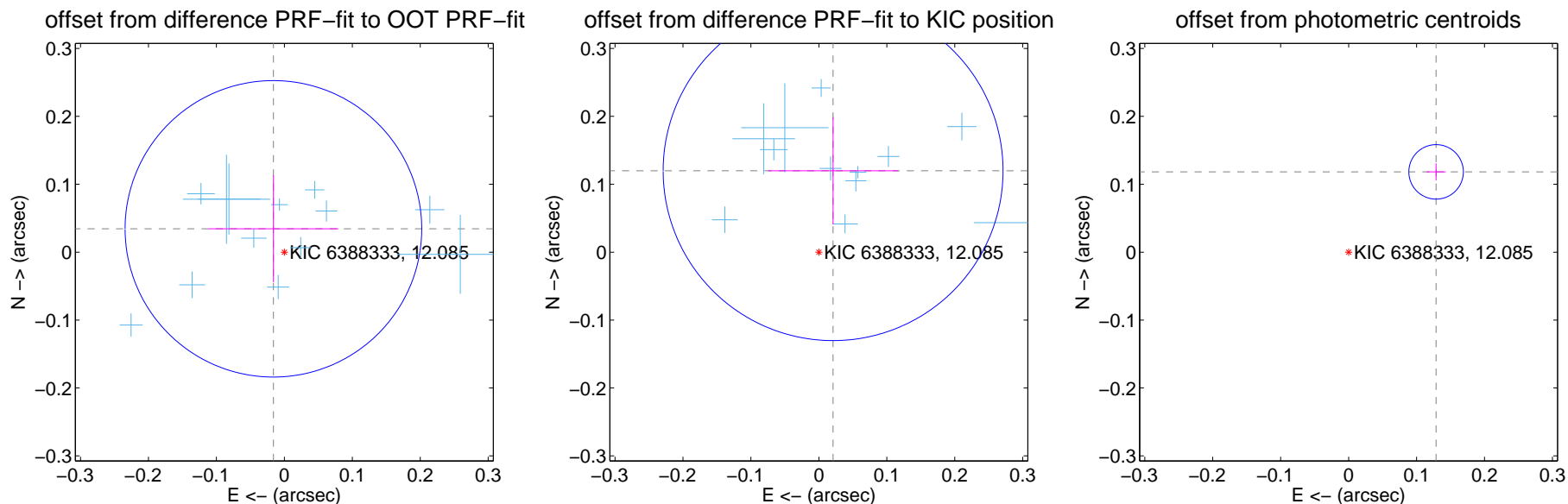
DV Centroid Data

Supplemental centroid analysis for 006388333-03. Kepler magnitude: 12.09. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

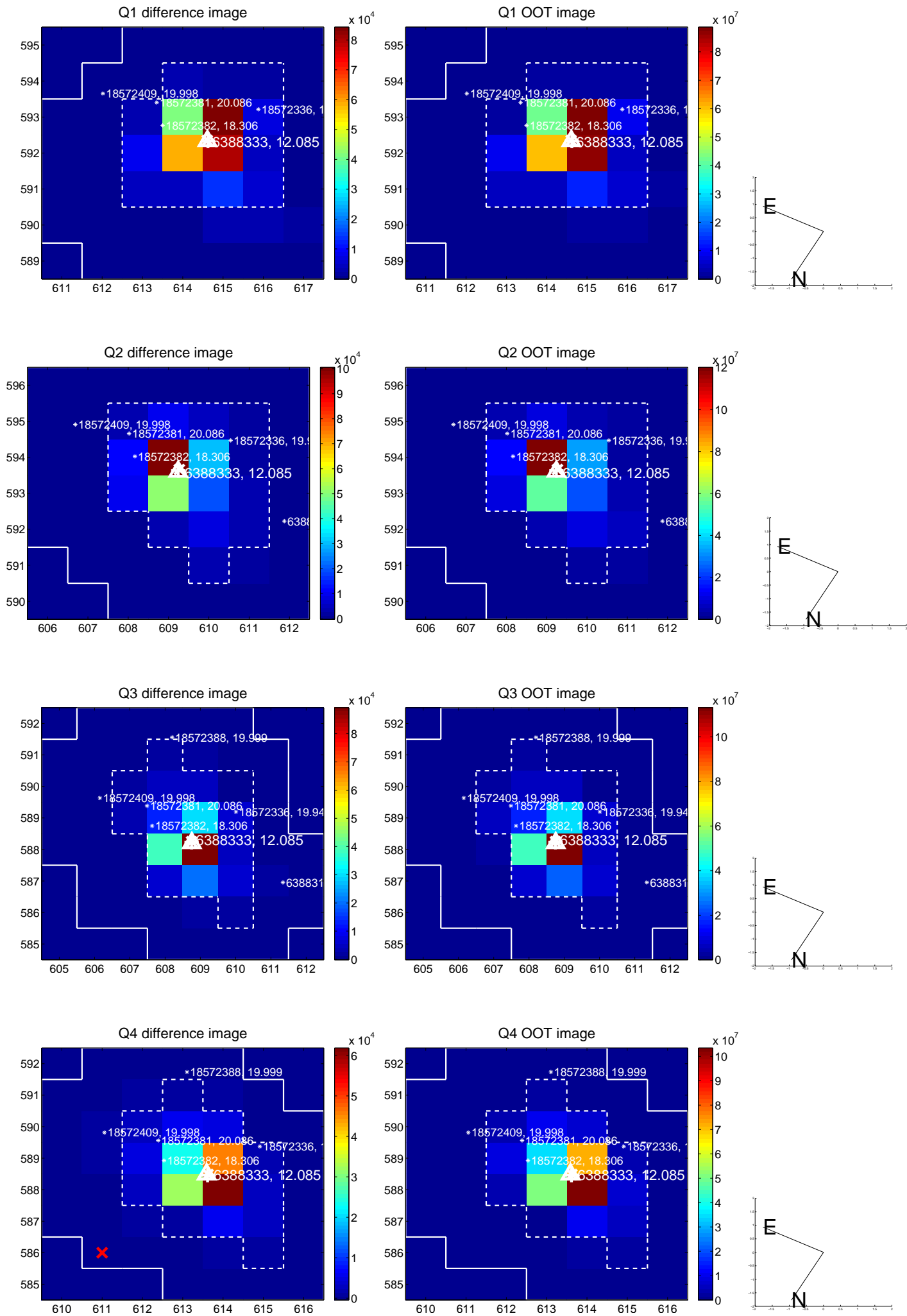
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.038 ± 0.073	0.52	0.016 ± 0.096	0.034 ± 0.079
PRF-fit source offset from KIC position	0.122 ± 0.083	1.46	-0.021 ± 0.096	0.120 ± 0.079
photometric centroid source offset	0.17 ± 0.01	13.07	-0.13 ± 0.01	0.12 ± 0.01

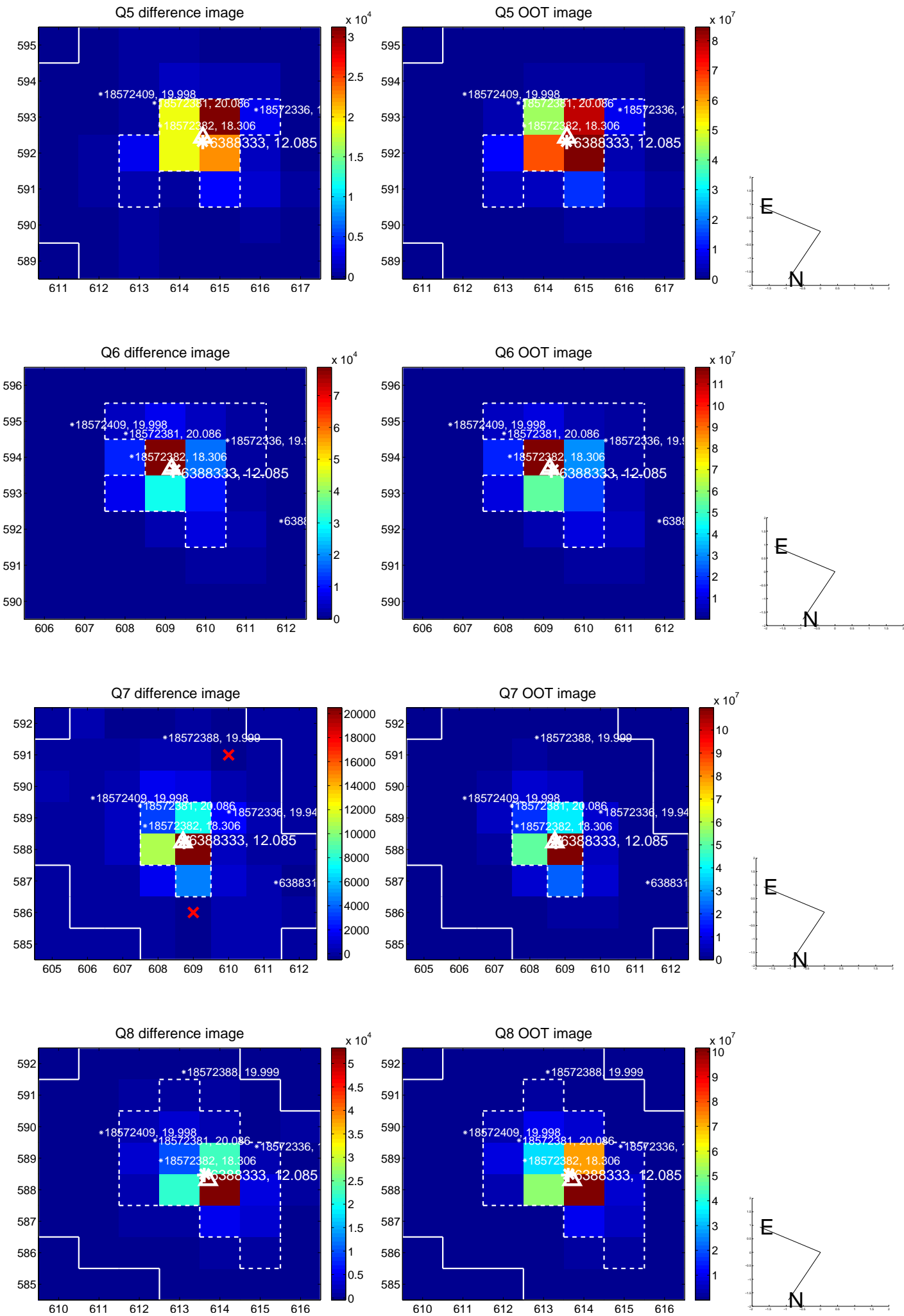


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

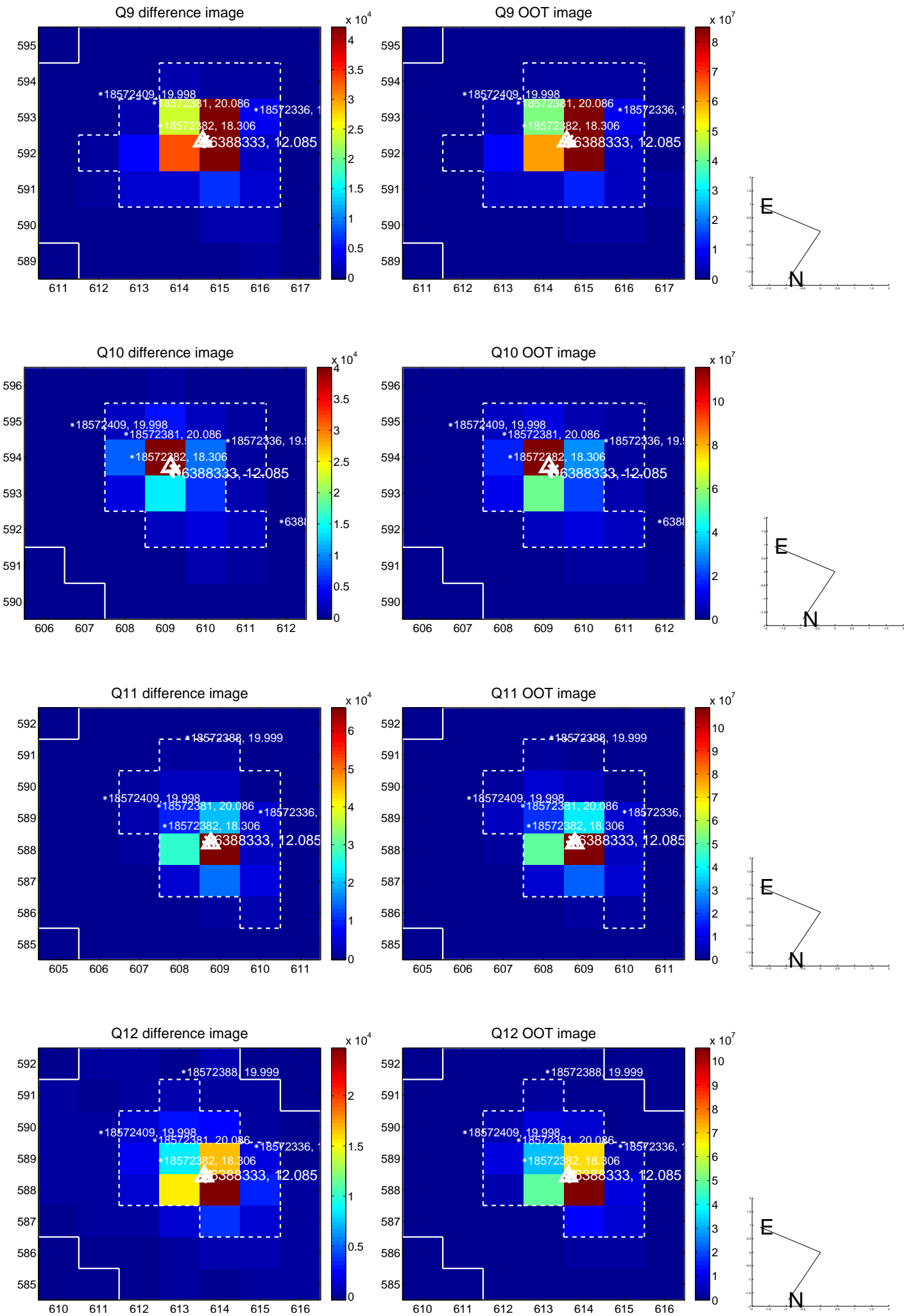
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



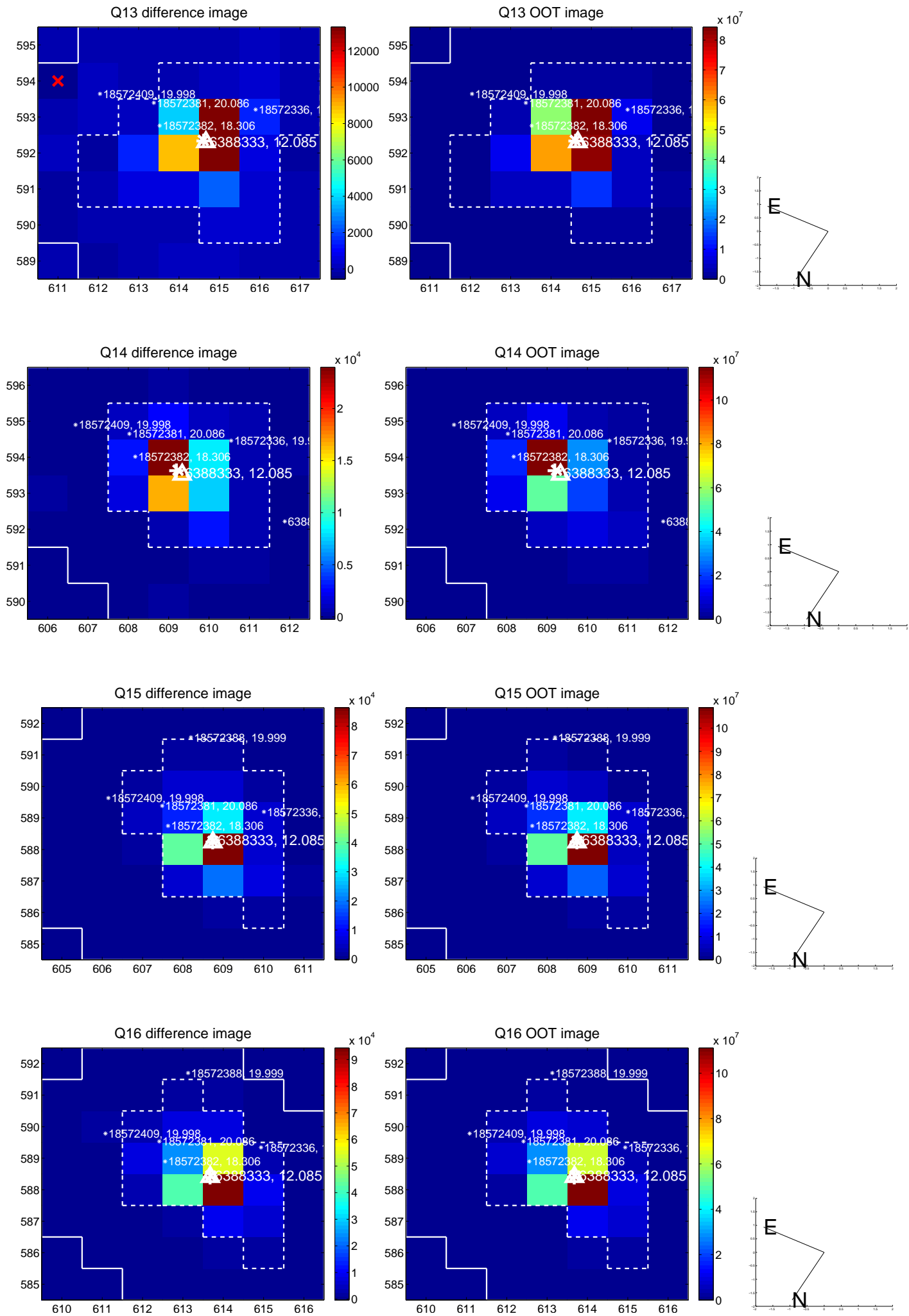
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



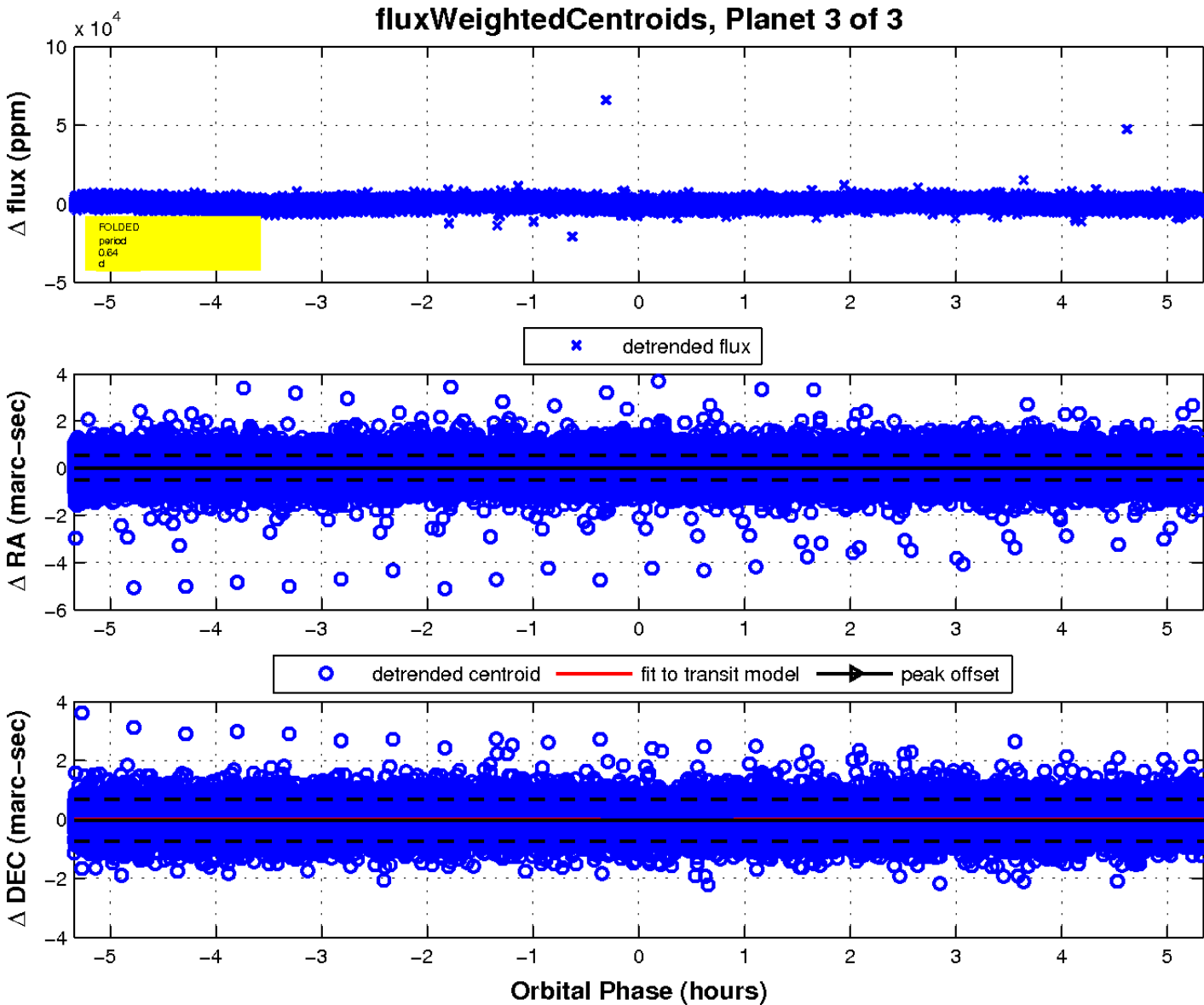
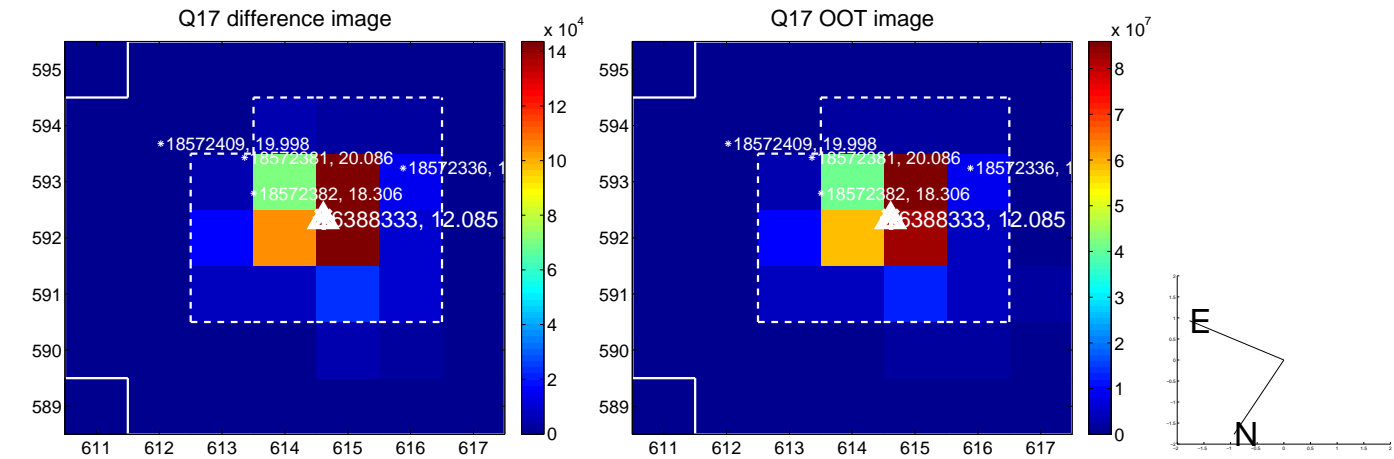
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

