

KIC 006062088

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})
006062088-01	OBS	0658.01	3.162692	131.689773	494.2	2.022	65.0	72.6	1.08	5821	2.81	693.58
006062088-02	OBS	0658.02	5.370644	134.643313	489.3	2.258	50.1	56.0	1.08	5821	2.85	342.35
006062088-03	OBS	0658.03	11.329818	133.964684	160.4	4.095	14.2	15.5	1.08	5821	1.60	126.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006062088-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006062088-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006062088-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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

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

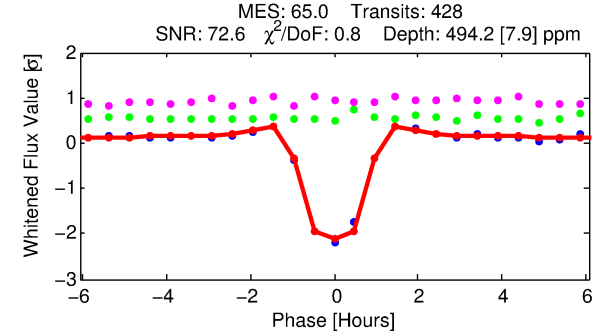
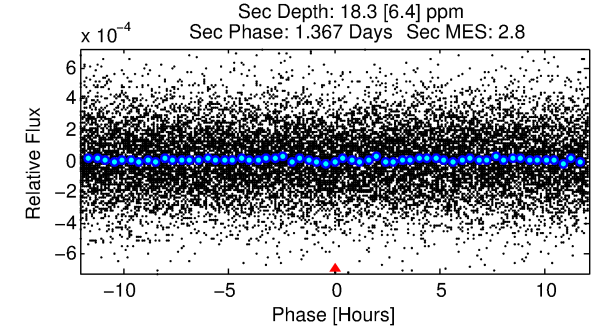
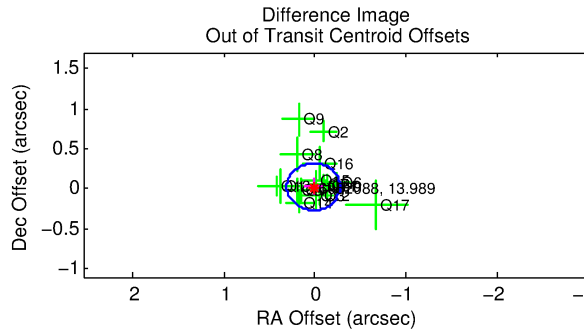
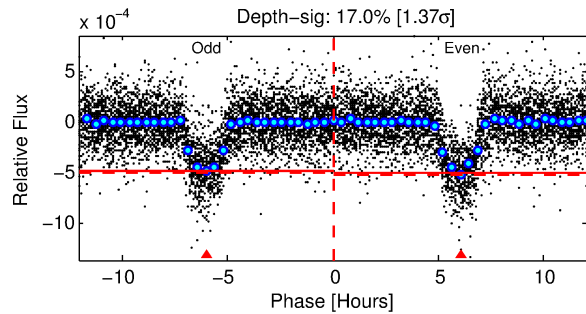
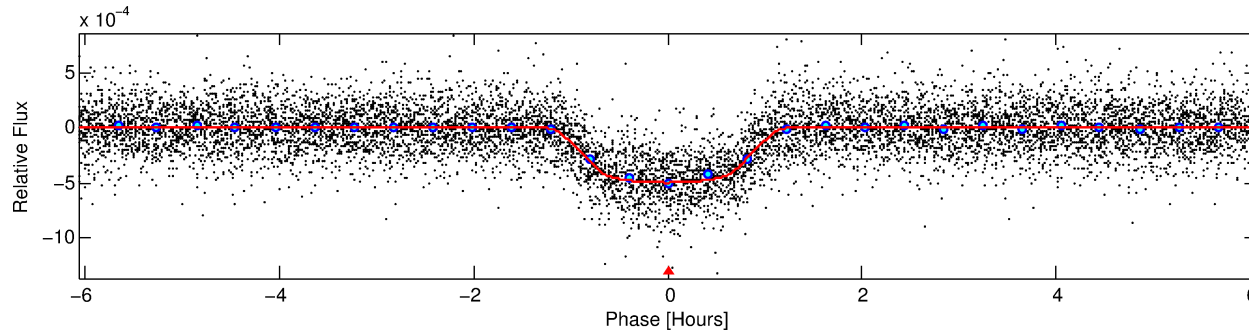
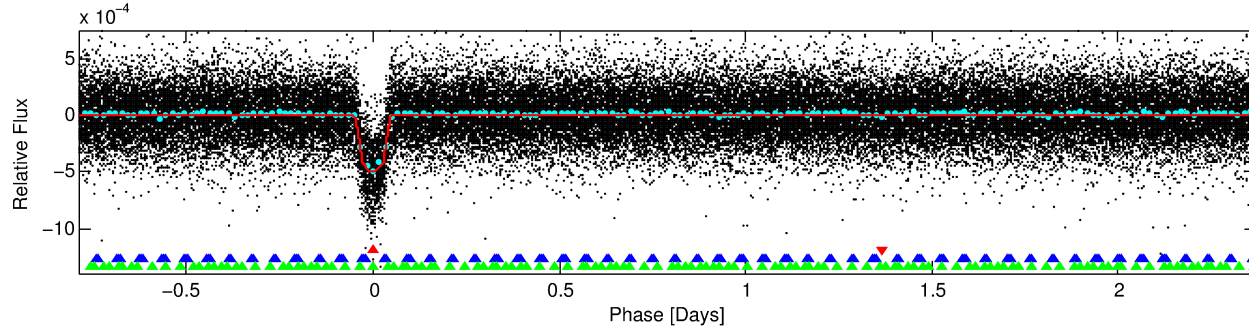
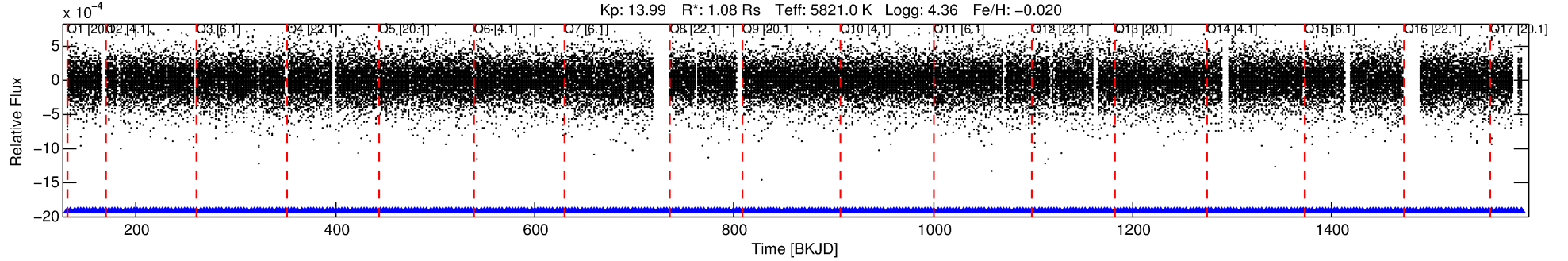
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006062088-01

No Significant Match Found

DV One-Page Summary

KIC: 6062088 Candidate: 1 of 3 Period: 3.163 d
KOI: K00658.01 Name: Kepler-203b Corr: 0.978



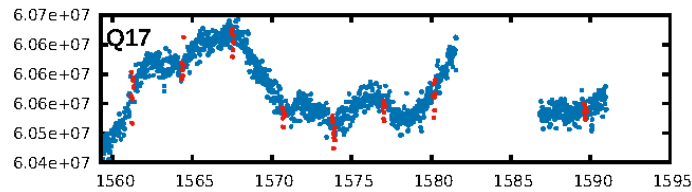
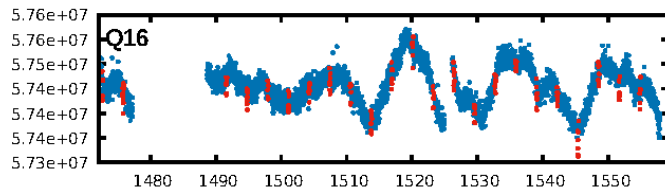
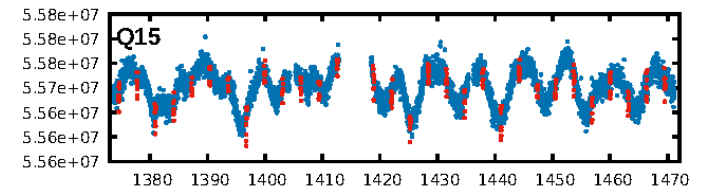
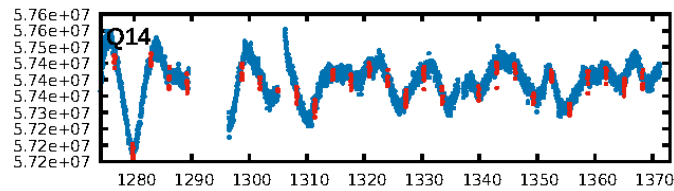
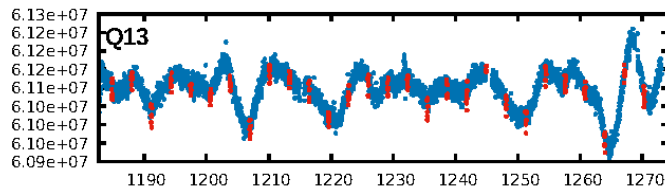
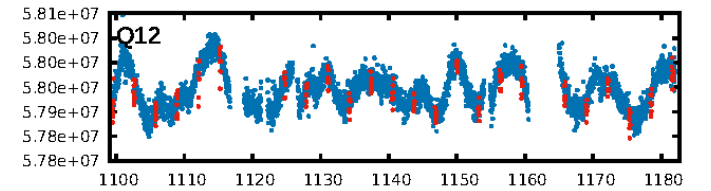
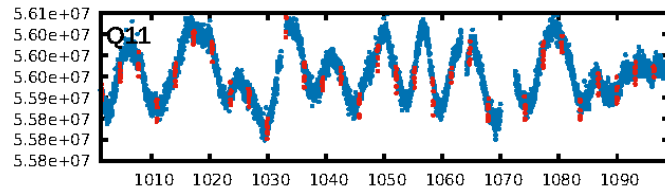
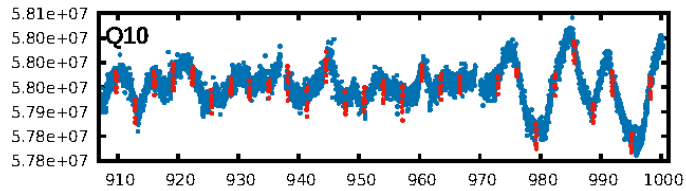
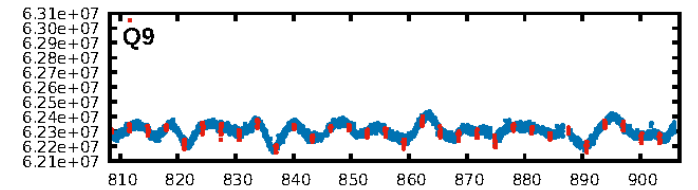
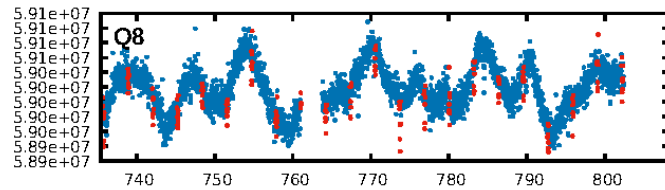
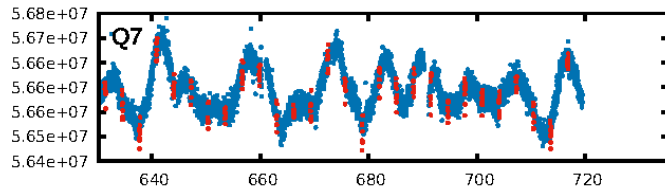
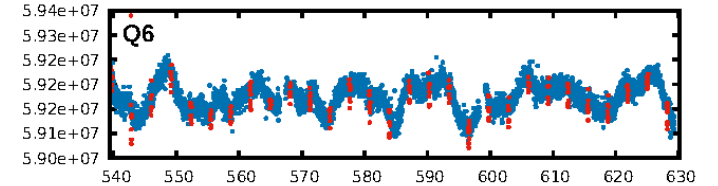
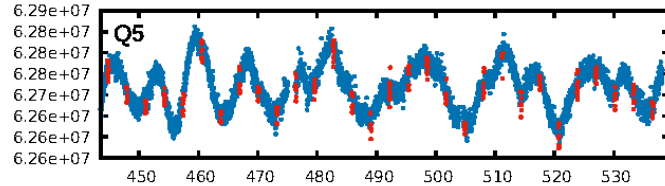
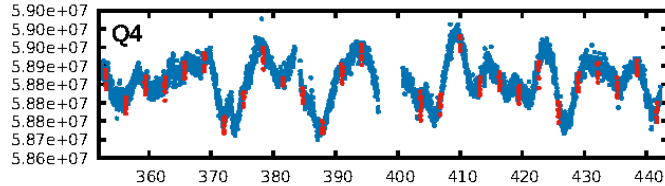
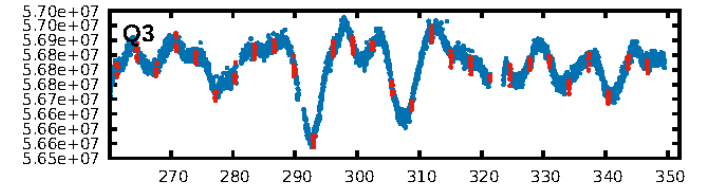
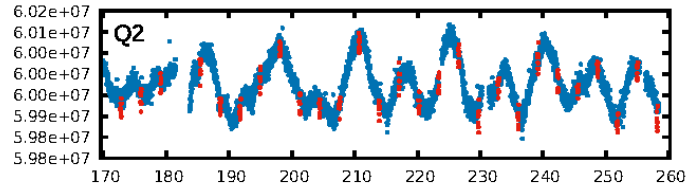
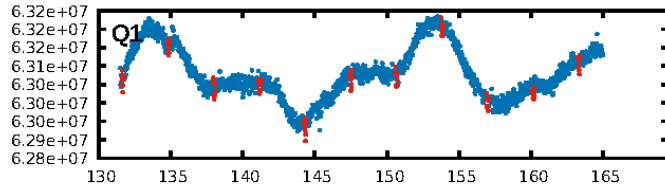
DV Fit Results:

Period = 3.16269 [0.00000] d
Epoch = 131.6898 [0.0004] BKJD
Rp/R* = 0.0237 [0.0018]
a/R* = 6.43 [2.16]
b = 0.87 [0.09]
Seff = 693.58 [156.06]
Teq = 1309 [74] K
Rp = 2.81 [0.46] Re
a = 0.0418 [0.0057] AU
Ag = 2.24 [0.97] [1.28 σ]
Teffp = 2474 [240] K [4.65 σ]

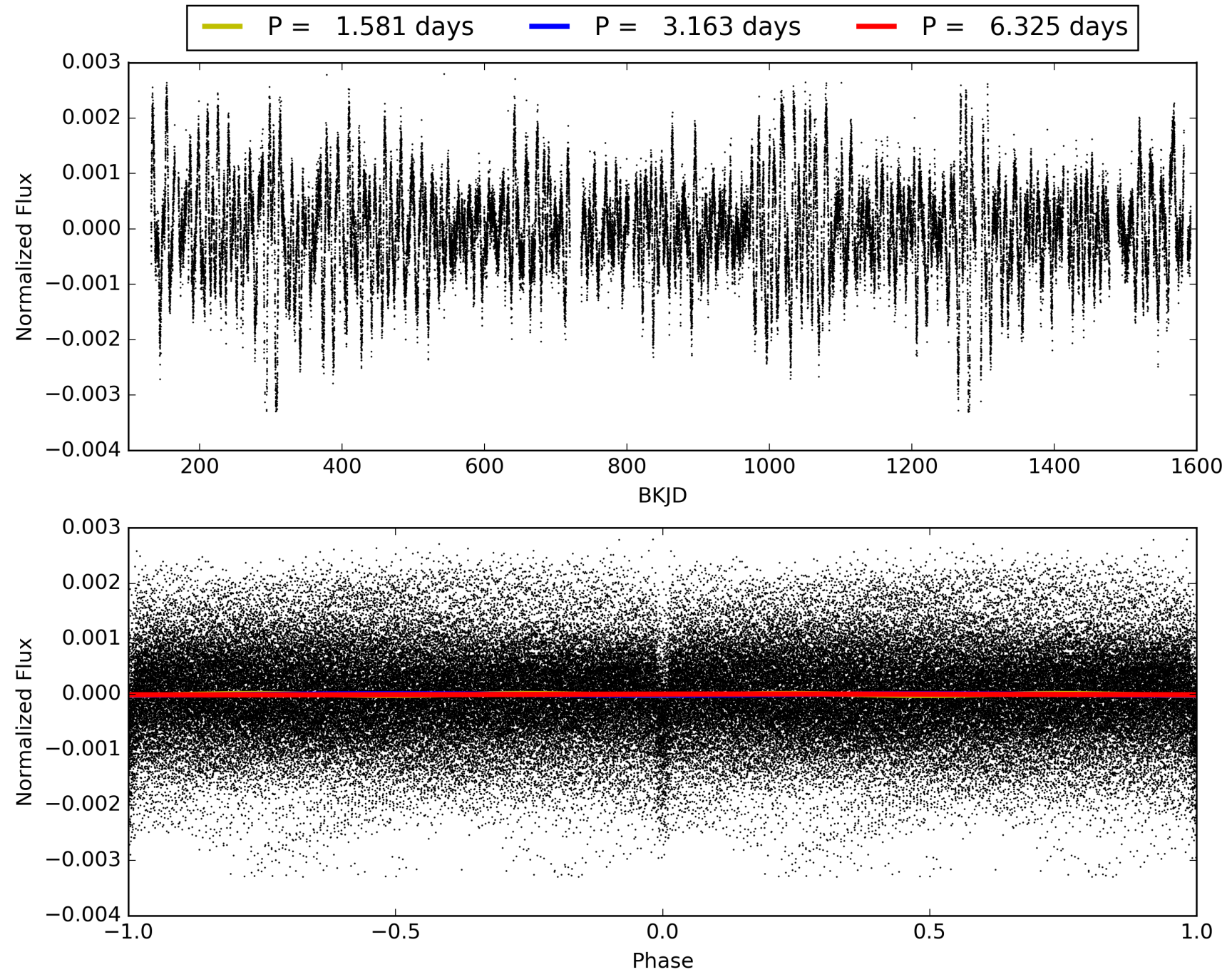
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [17.48 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [409/409]
GhostDiagnostic-chr: 5.317
Centroid-sig: N/A
Centroid-so: 0.165 arcsec [1.18 σ]
OotOffset-rm: 0.030 arcsec [0.31 σ]
KicOffset-rm: 0.144 arcsec [1.48 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 006062088-01, PDC Light Curves

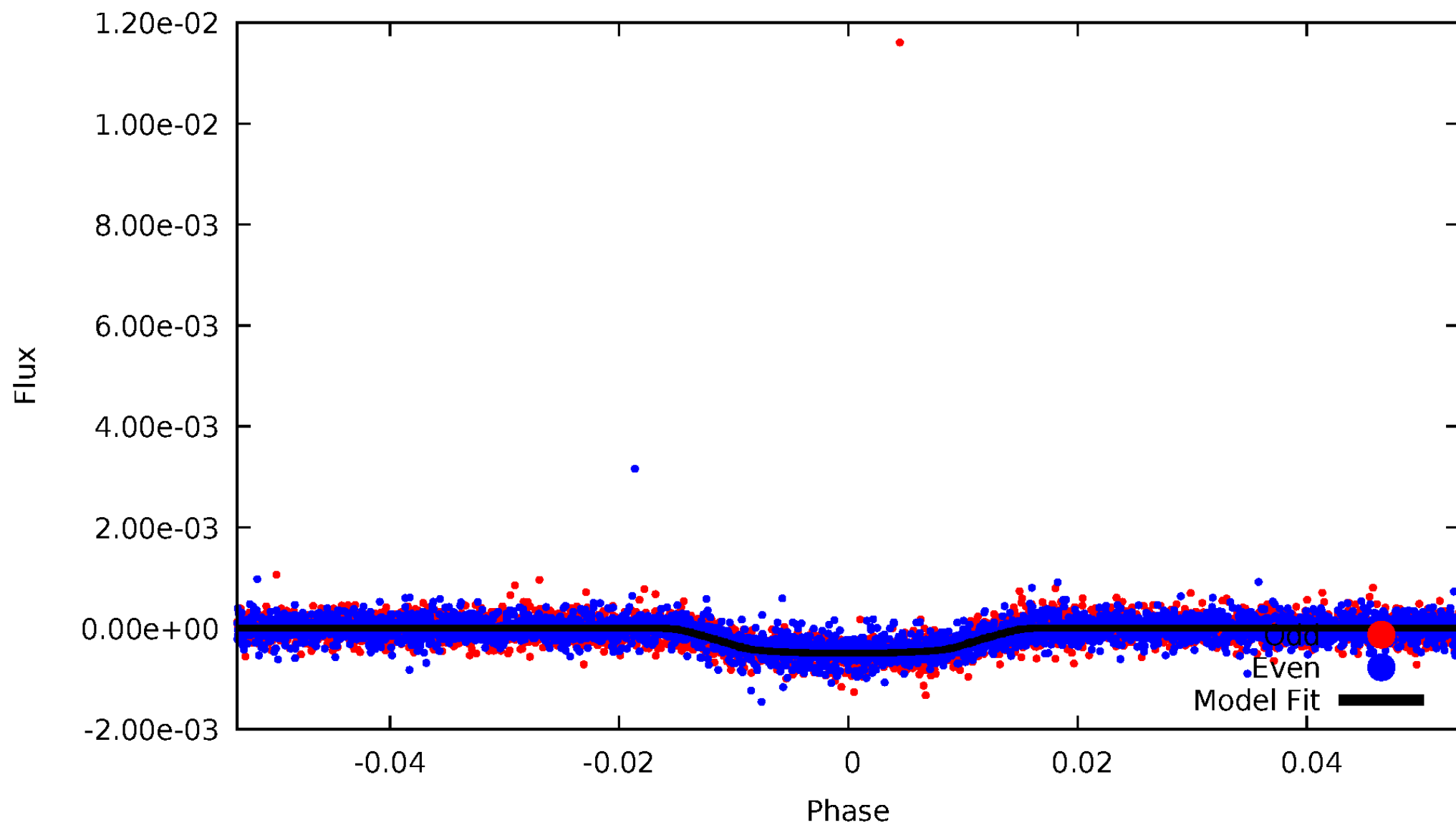


TCE 006062088-01



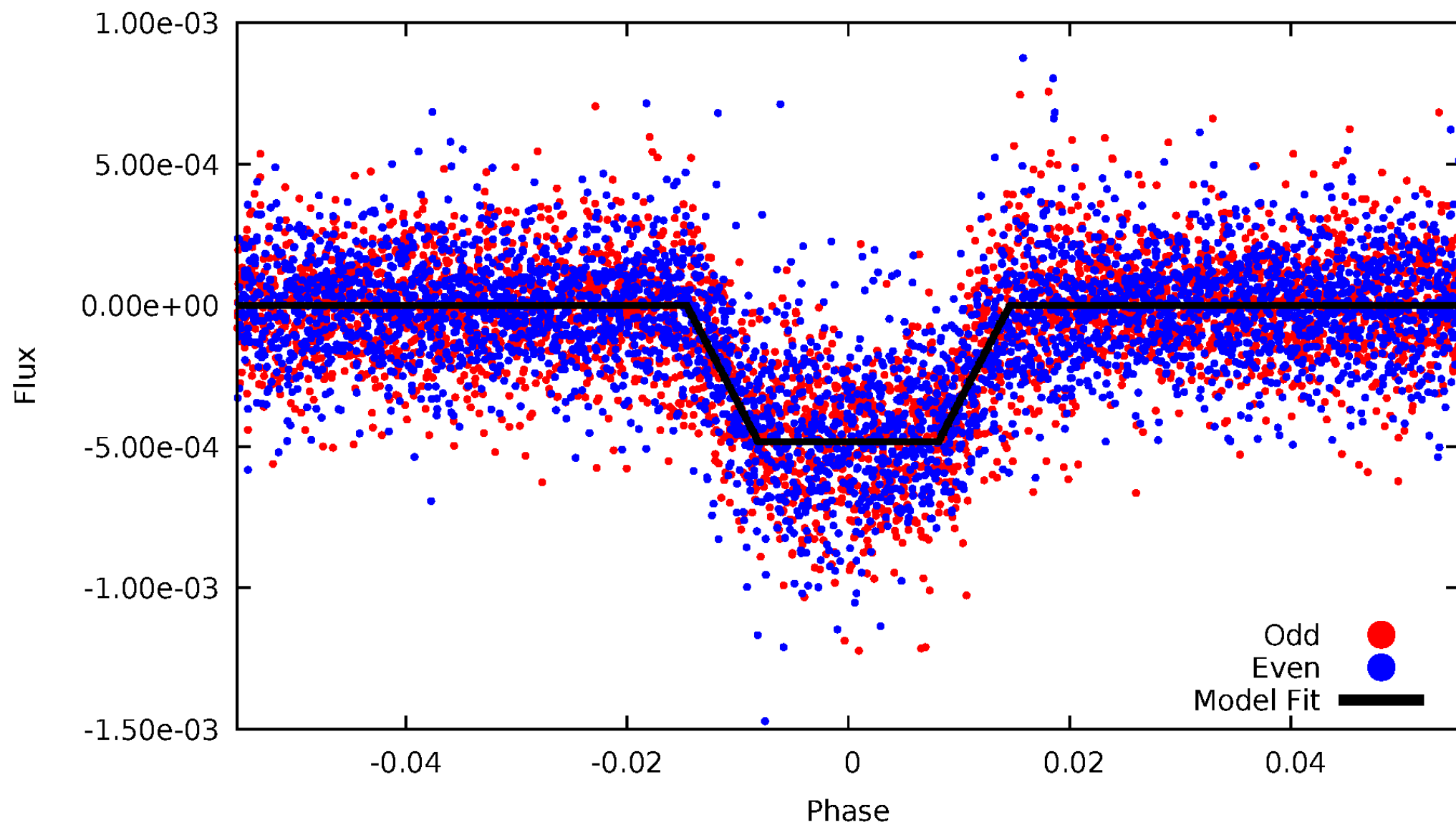
DV Odd/Even

TCE 006062088-01



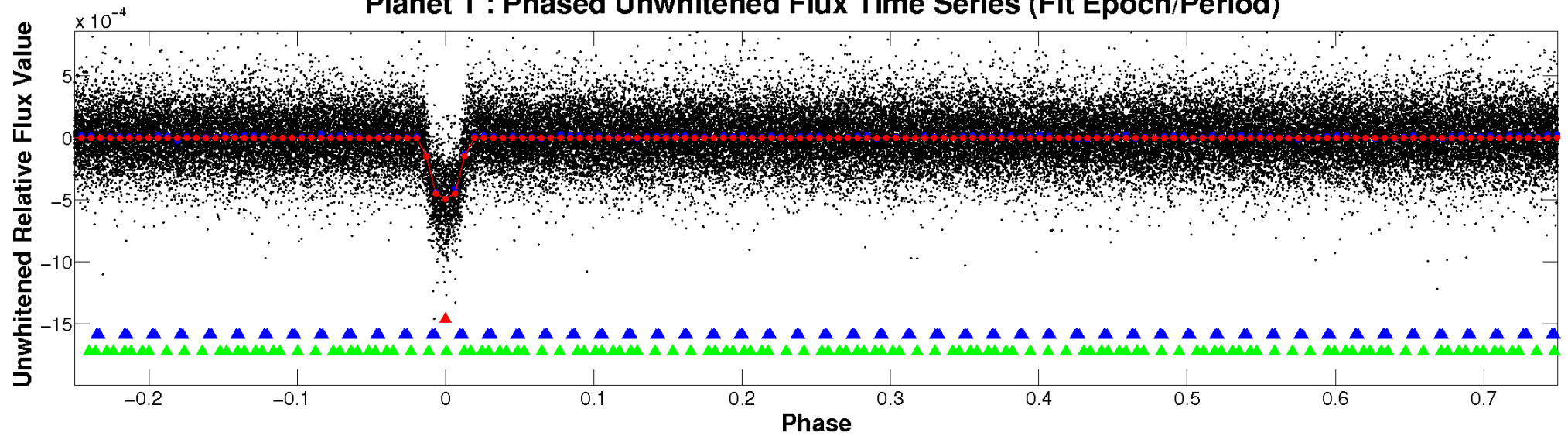
ALT Odd/Even

TCE 006062088-01

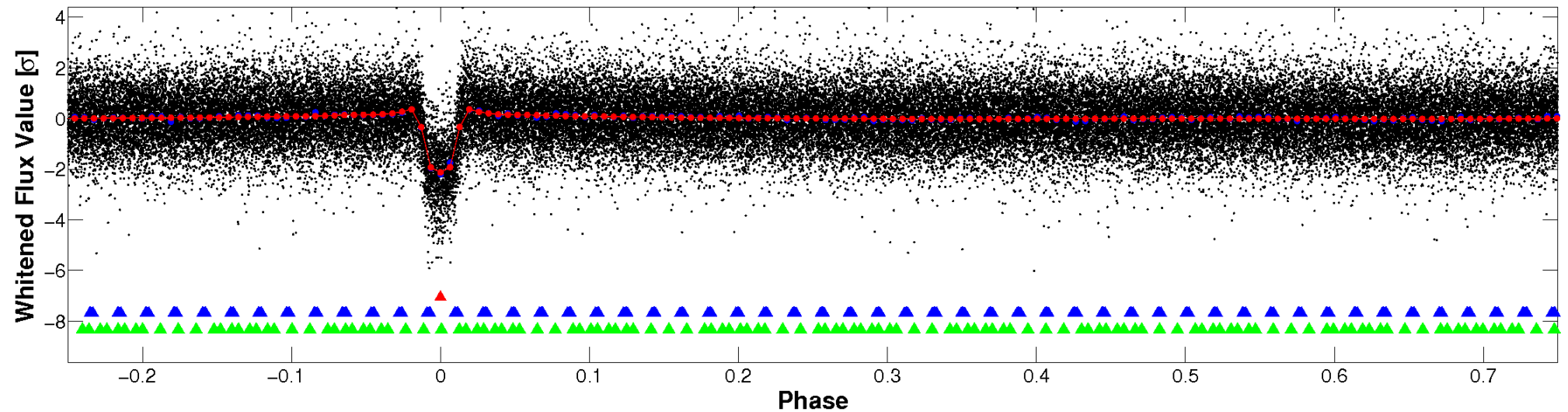


Non-Whitened Vs. Whitened Light Curve

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

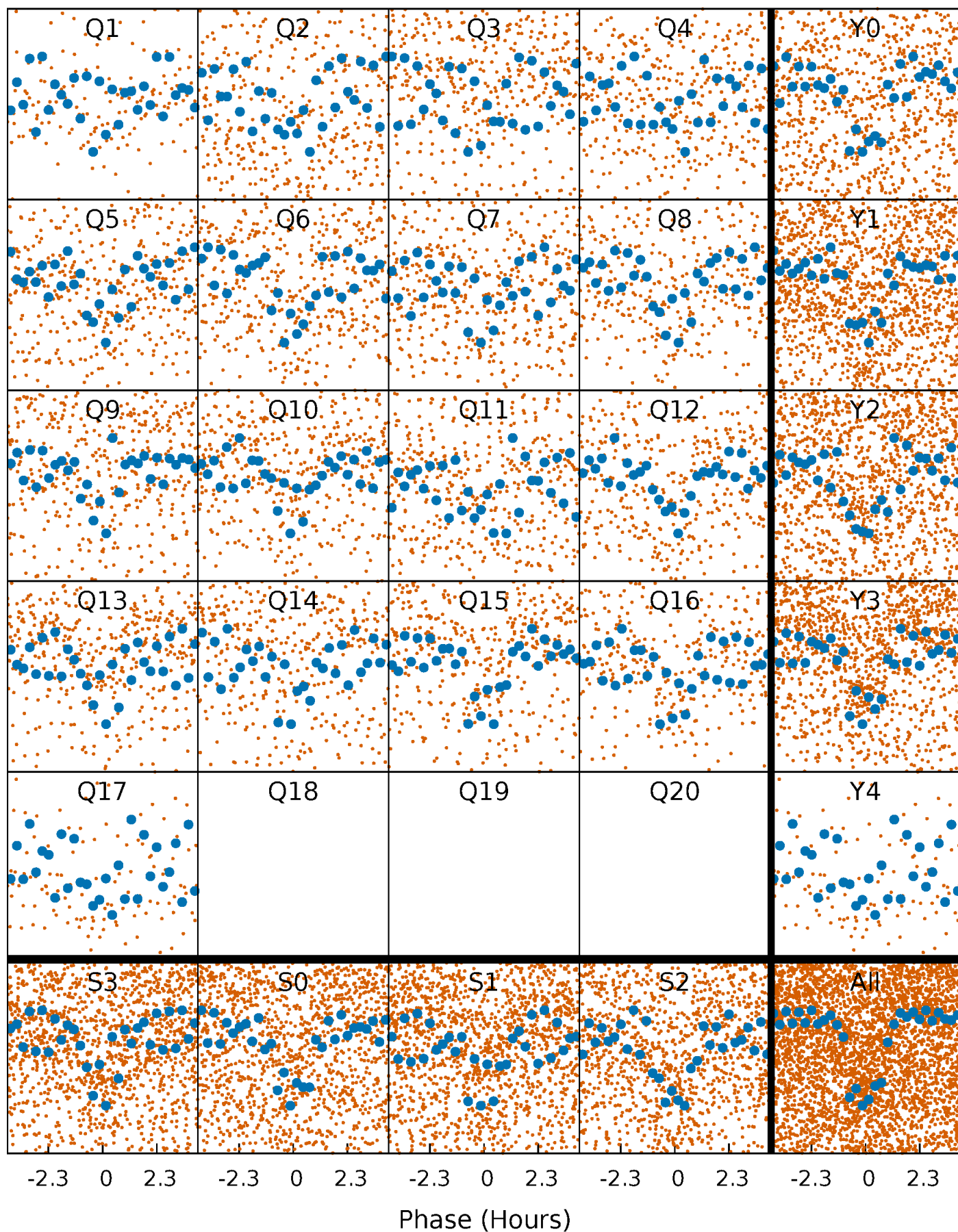


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



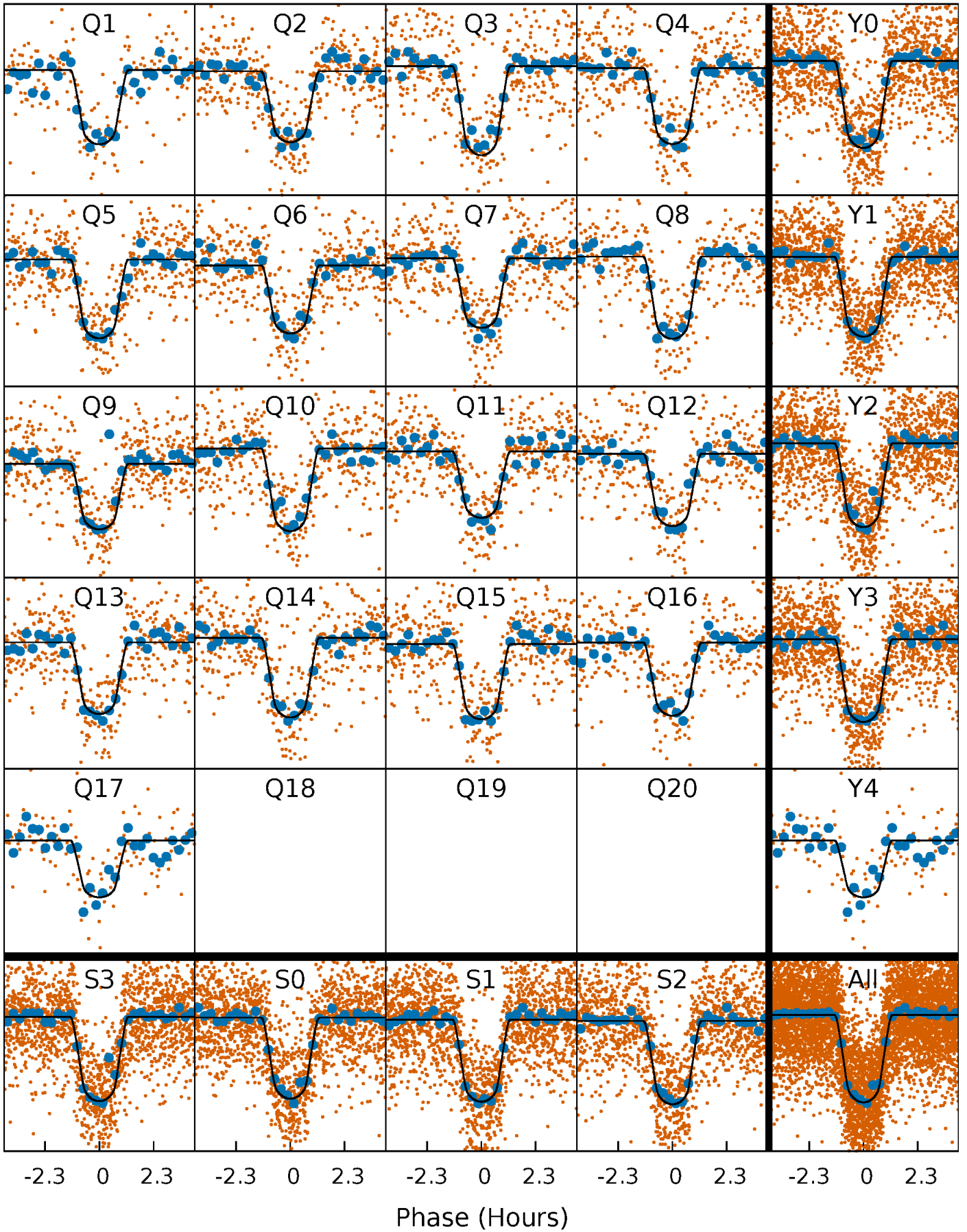
PDC Quarter-Phased Transit Curves

TCE 006062088-01 P= 3.162692 Days $T_0=131.689773$ (BKJD)



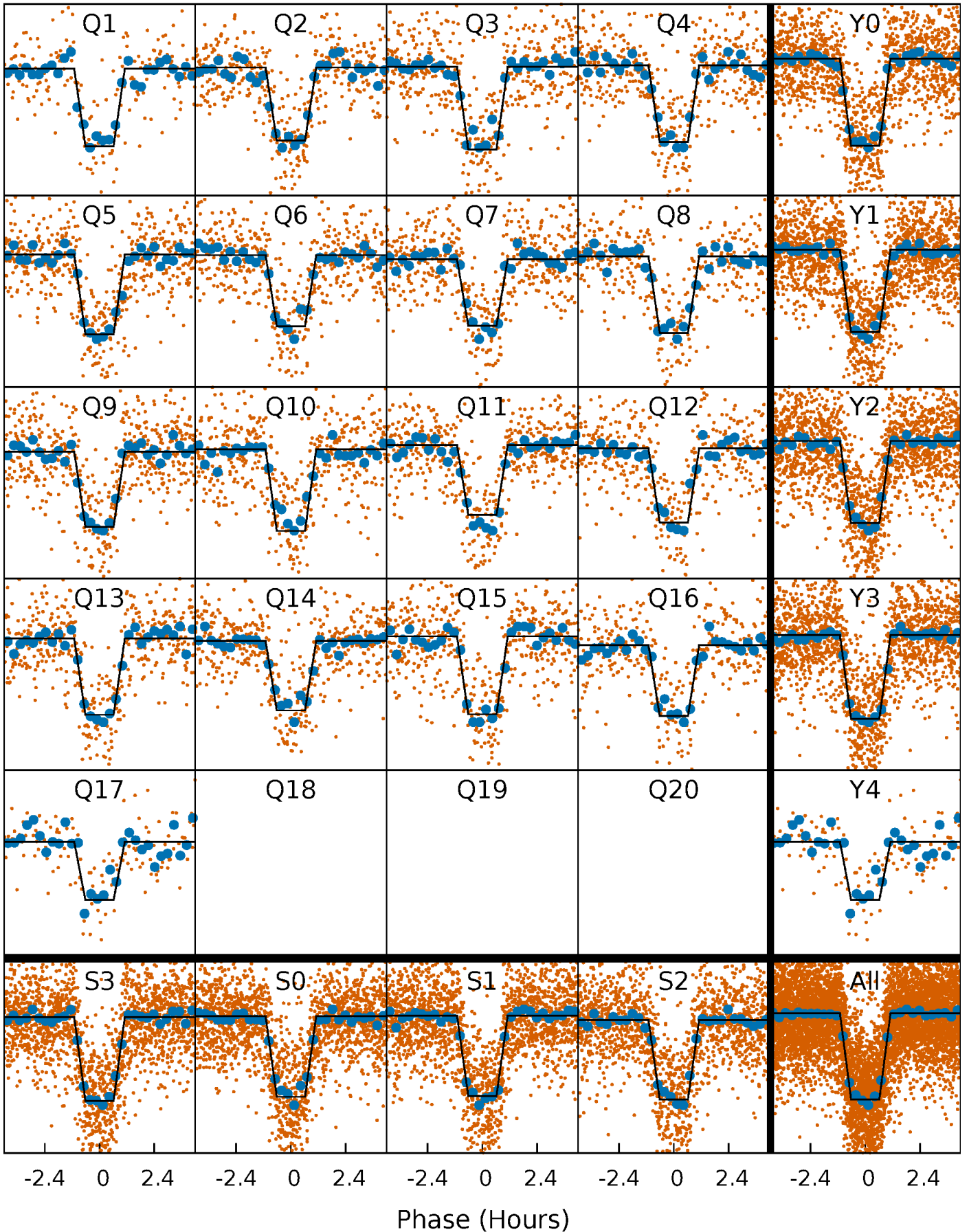
DV Quarter-Phased Transit Curves

TCE 006062088-01 P= 3.162692 Days $T_0=131.689773$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

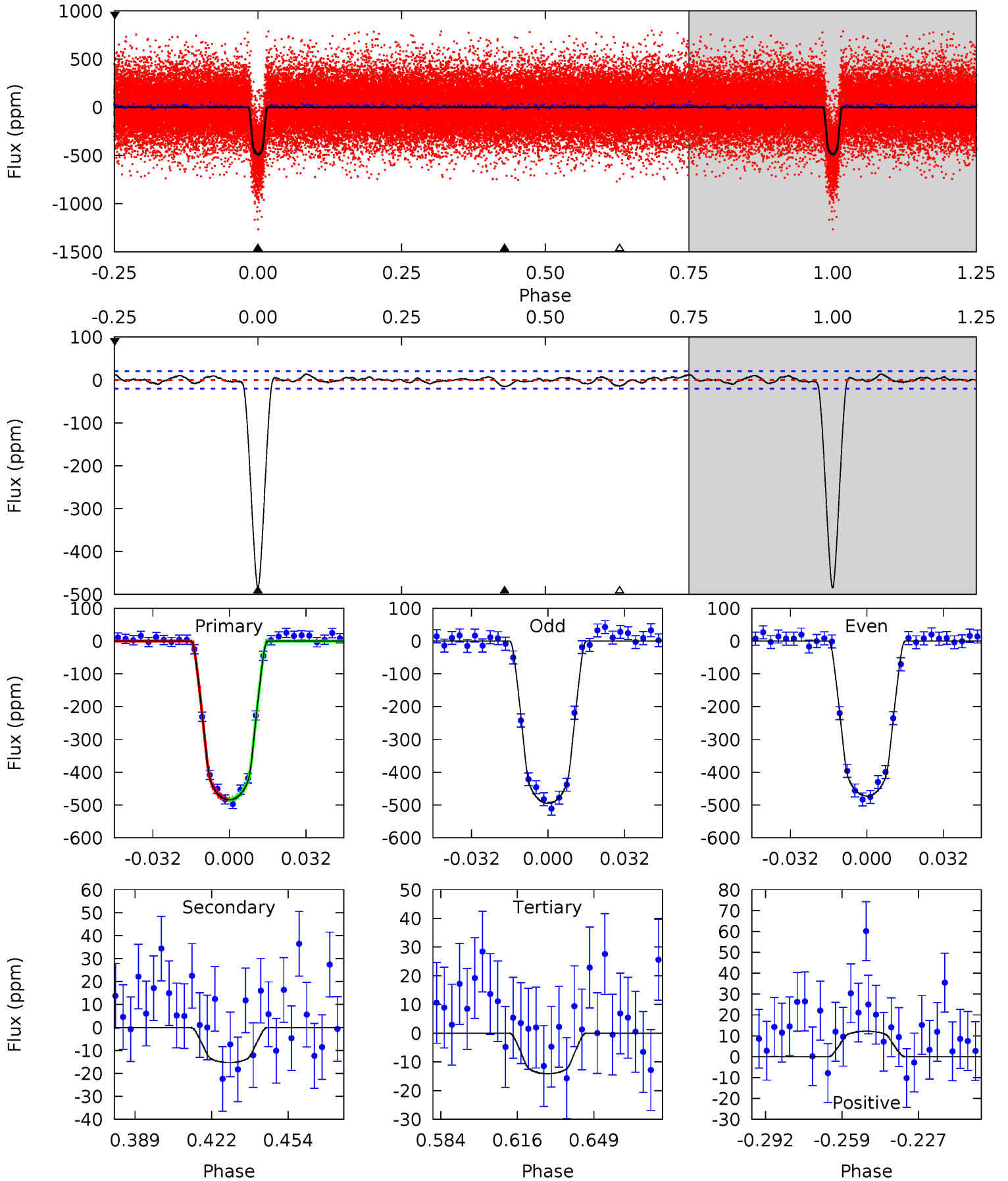
TCE 006062088-01 P= 3.162684 Days $T_0=131.691299$ (BKJD)



DV Model-Shift Uniqueness Test

006062088-01, P = 3.162692 Days, E = 128.527081 Days

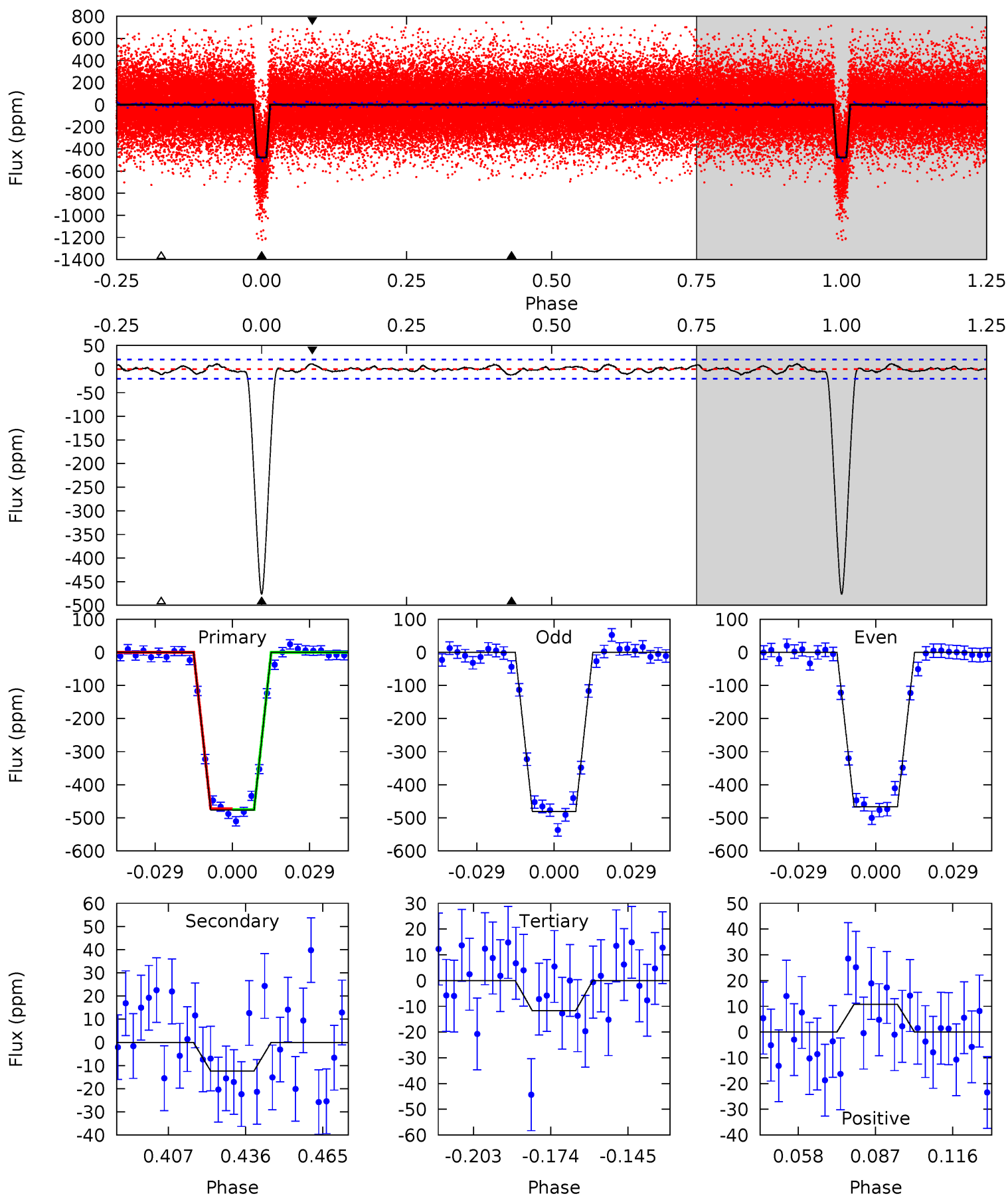
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
113.0	3.57	3.29	2.84	4.80	2.14	1.17	109.7	110.1	0.27	0.72	2.60	0.98	0.03	0.06



Alt Model-Shift Uniqueness Test

006062088-01, P = 3.162684 Days, E = 128.528615 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
112.6	2.92	2.77	2.55	4.82	2.18	1.05	109.8	110.0	0.15	0.37	1.70	1.01	0.02	0.33



Stellar Parameters For KIC 006062088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5821^{+105}_{-117}	$4.355^{+0.121}_{-0.110}$	$-0.020^{+0.150}_{-0.150}$	$1.085^{+0.160}_{-0.146}$	$0.972^{+0.074}_{-0.066}$	$1.072^{+0.523}_{-0.353}$
	+2%/-2%	+3%/-3%	+750%/-750%	+15%/-13%	+8%/-7%	+49%/-33%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 006062088-01 / KOI 0658.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-15 ± 4	$2.79^{+0.35}_{-0.32}$	1822^{+82}_{-78}	2955^{+146}_{-171}	$1.884^{+0.742}_{-0.578}$
Alt.	-12 ± 4	$2.62^{+0.31}_{-0.30}$	1835^{+78}_{-85}	2923^{+167}_{-194}	$1.751^{+0.735}_{-0.629}$

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 $A_{obs} \gg 1.0$

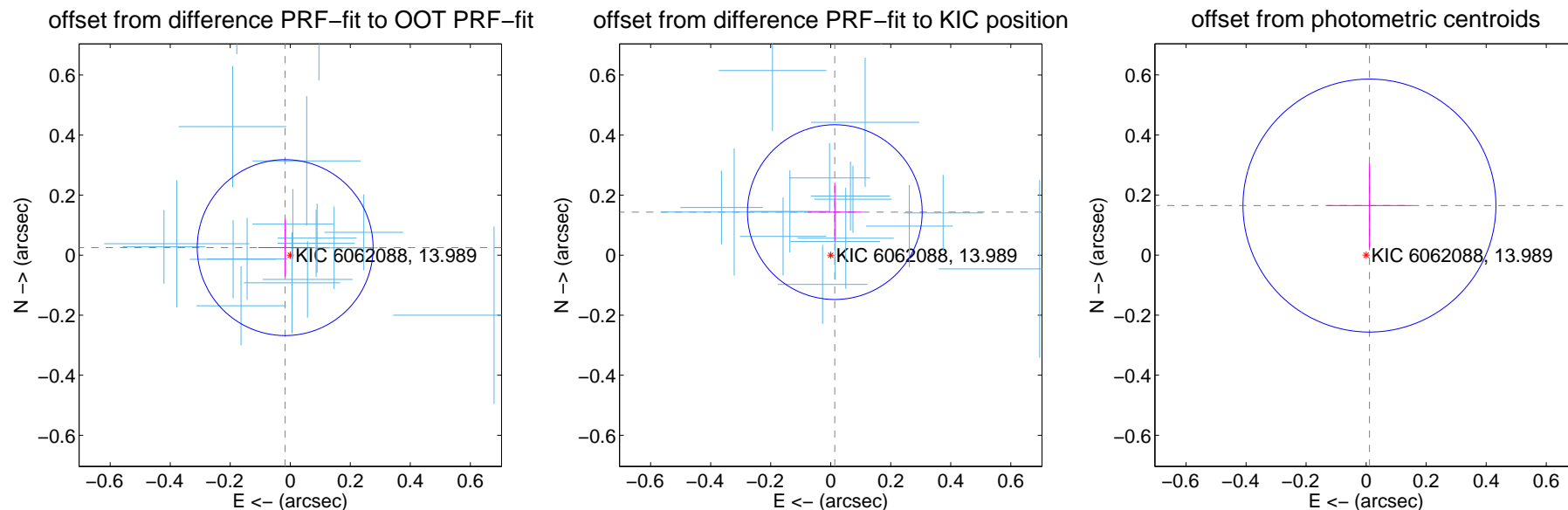
DV Centroid Data

Supplemental centroid analysis for 006062088-01. Kepler magnitude: 13.99. Transit SNR 72.63

There are 17 quarters with good PRF difference image offsets

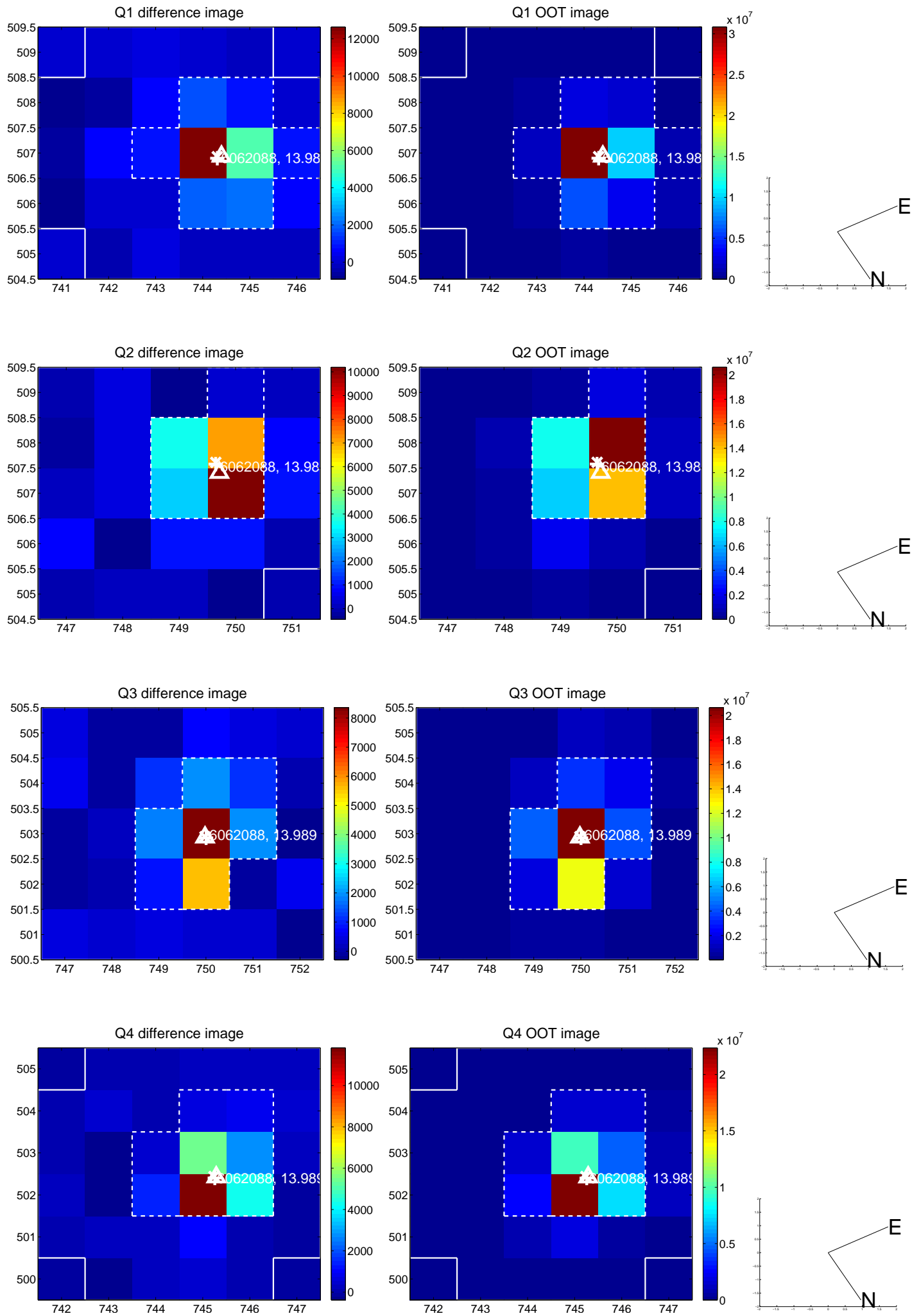
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.030 ± 0.098	0.31	0.017 ± 0.090	0.025 ± 0.095
PRF-fit source offset from KIC position	0.144 ± 0.097	1.48	-0.014 ± 0.090	0.143 ± 0.098
photometric centroid source offset	0.17 ± 0.14	1.18	-0.01 ± 0.14	0.16 ± 0.14

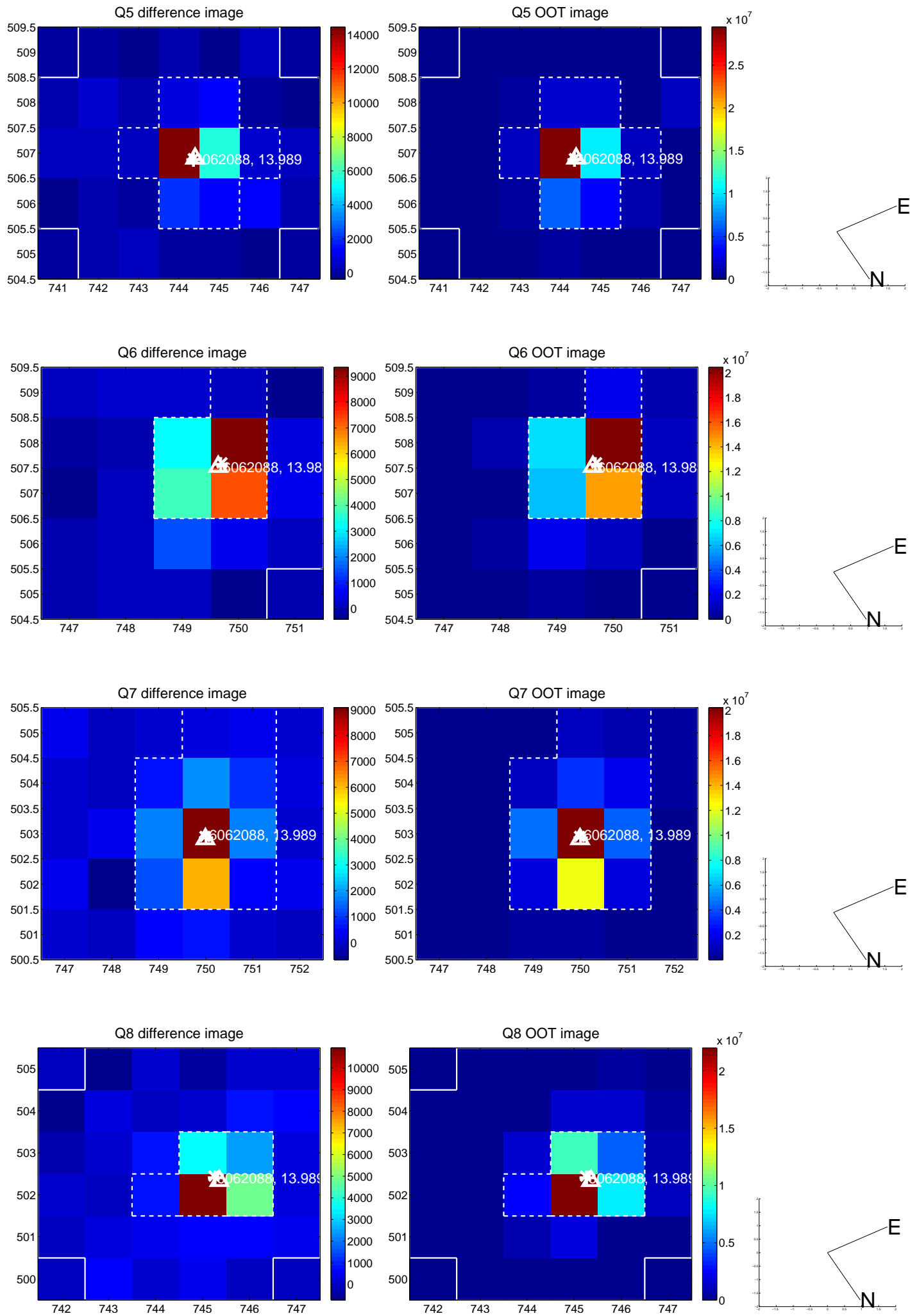


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

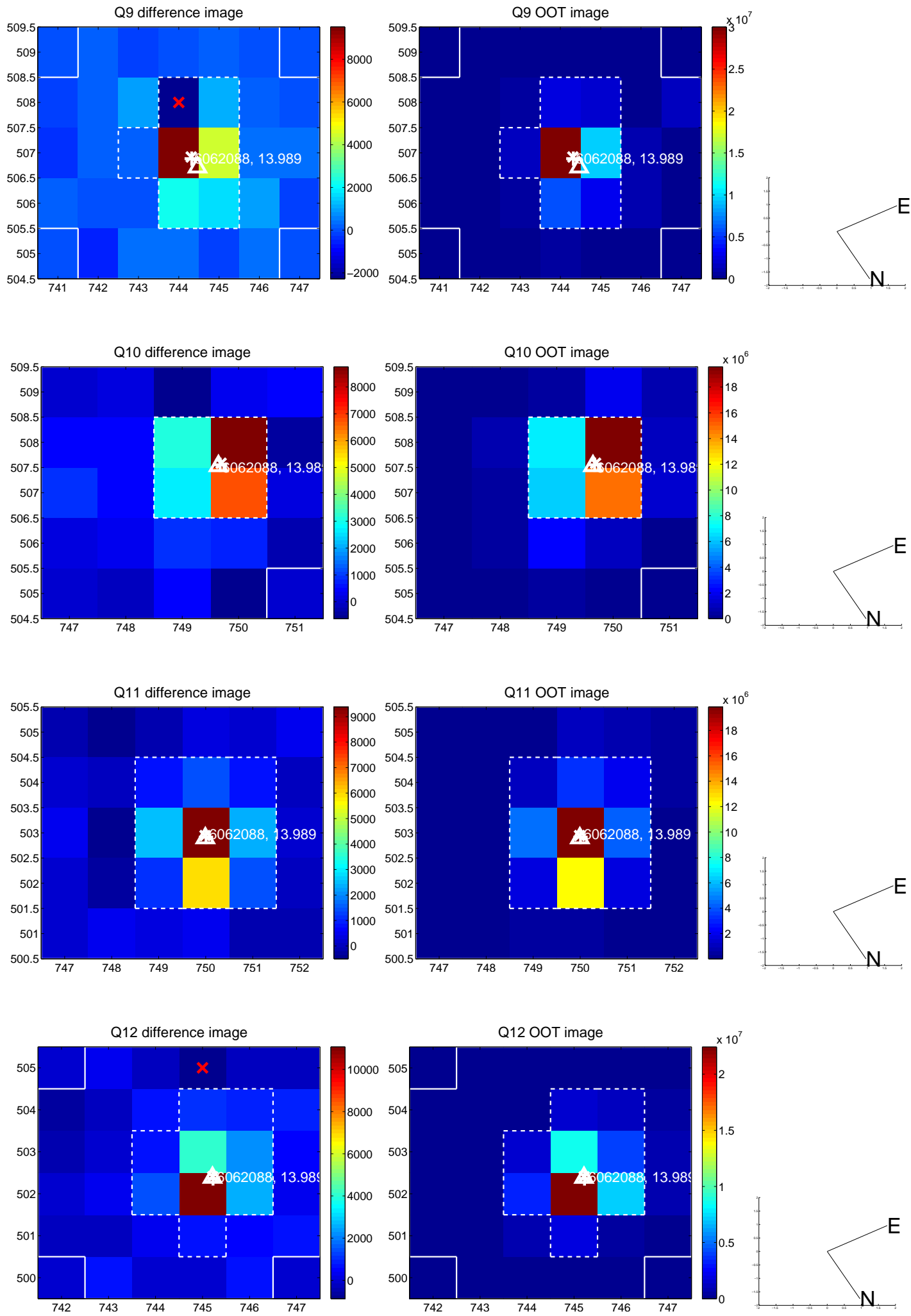
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



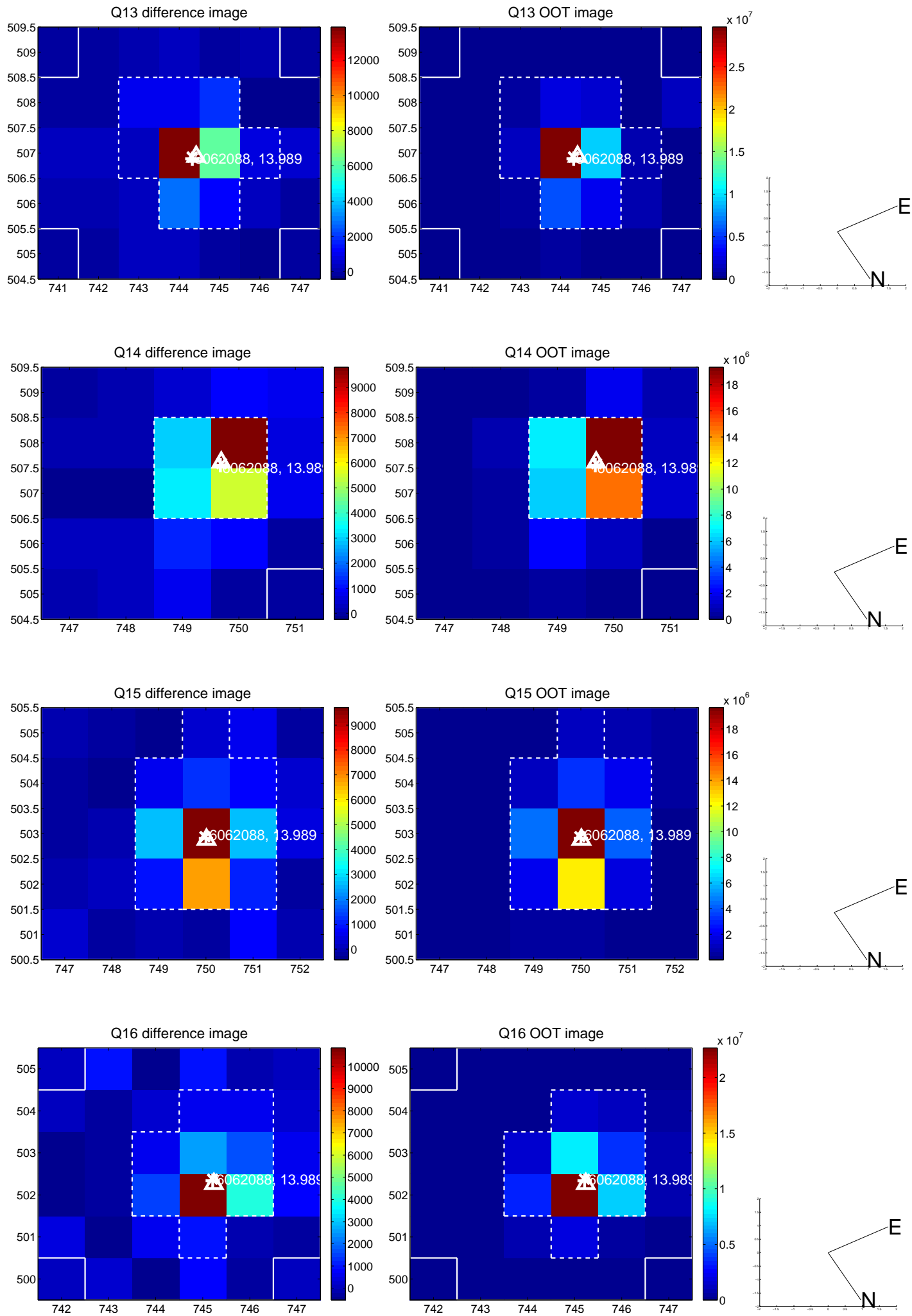
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



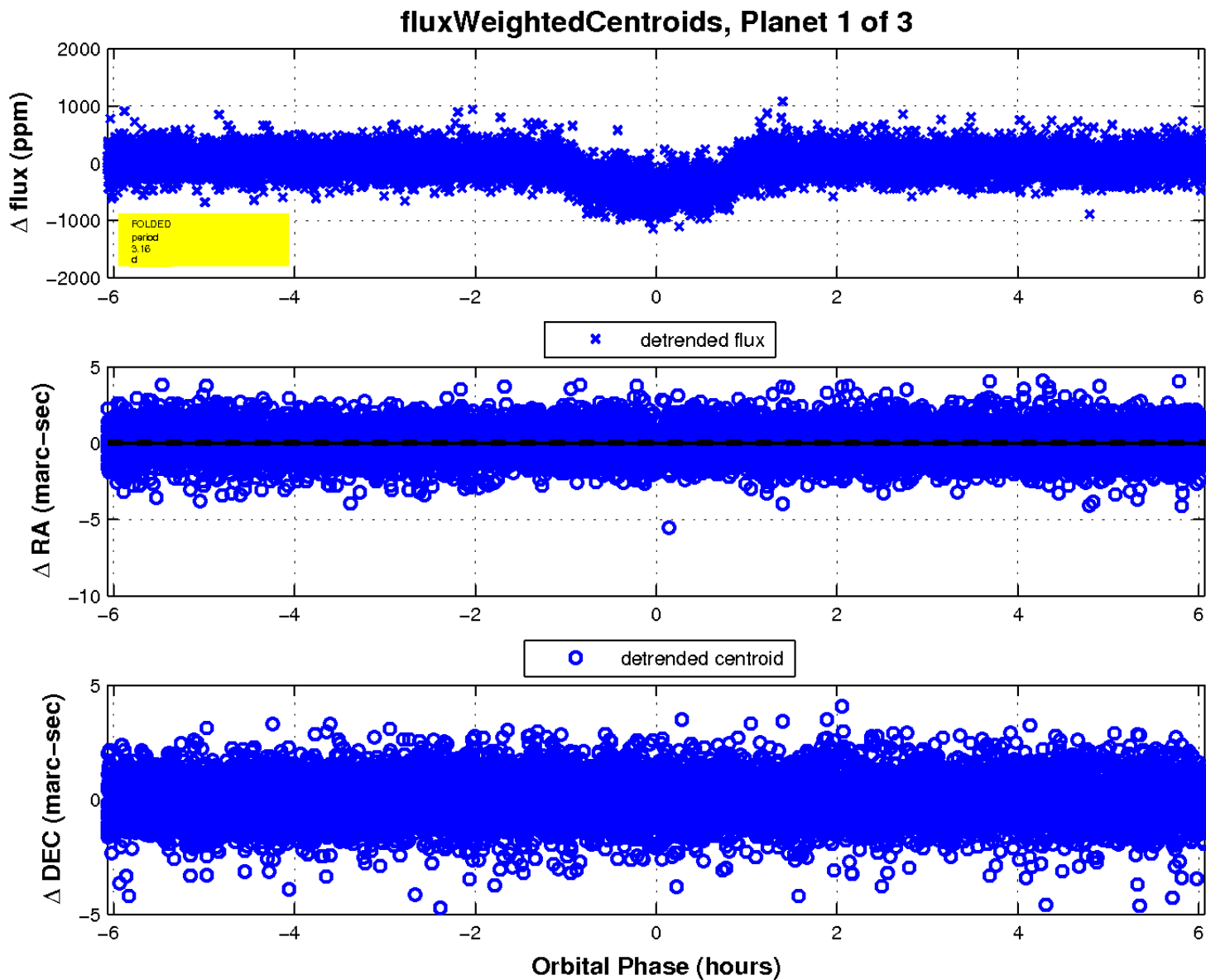
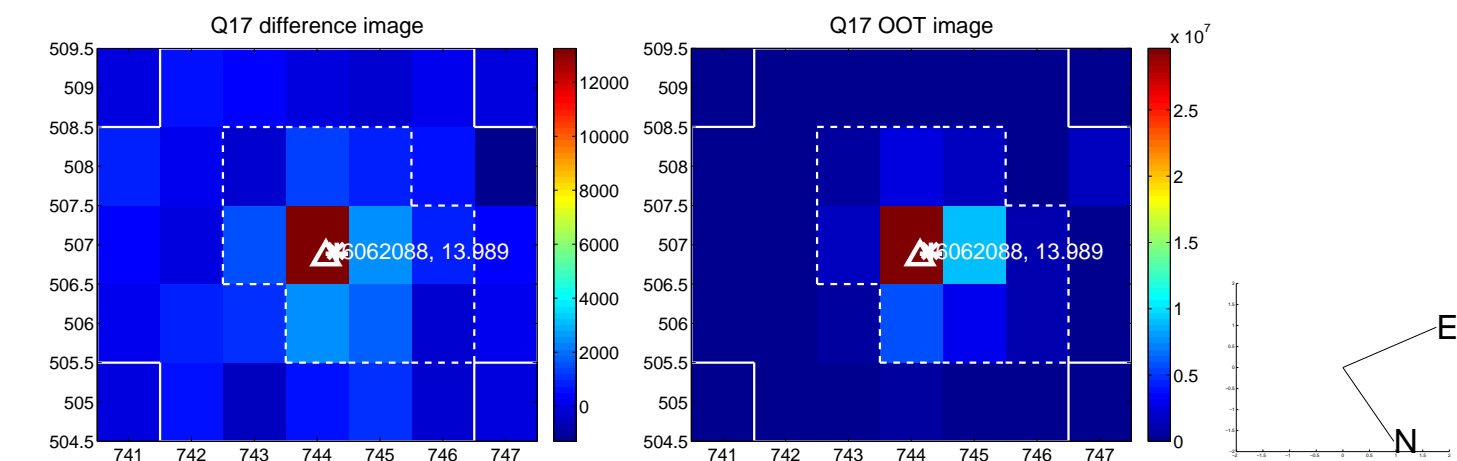
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

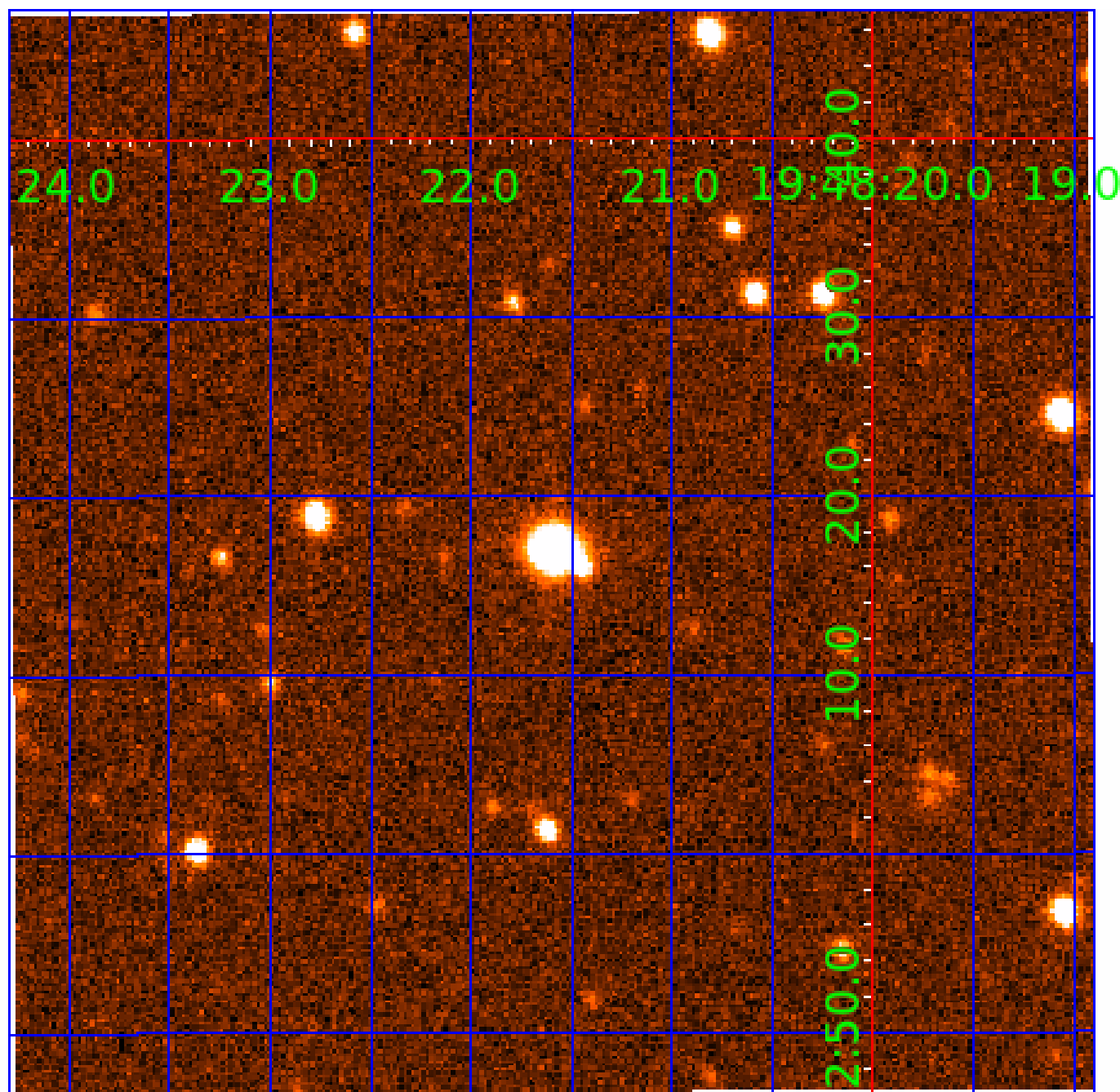


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006062088

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})
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Robovetter Results

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006062088-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006062088-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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.

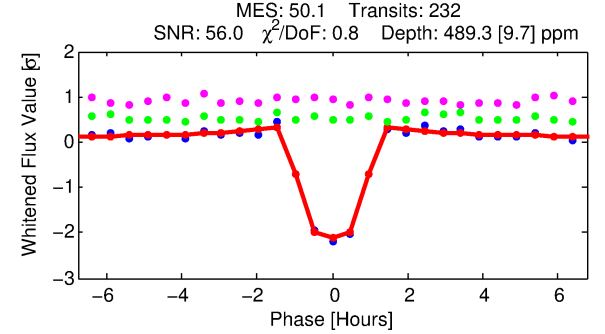
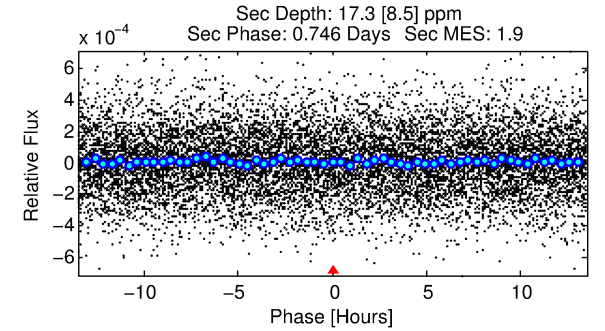
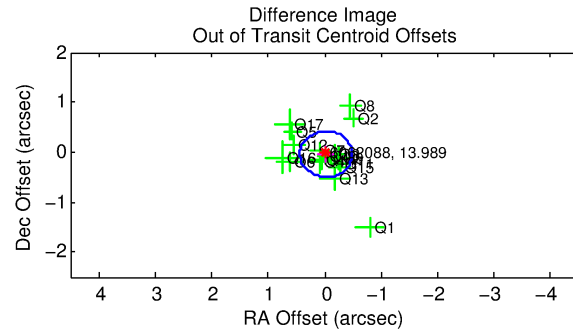
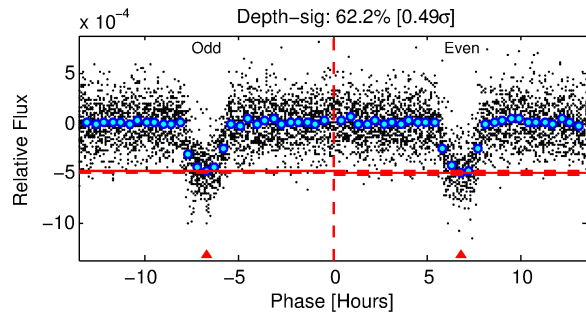
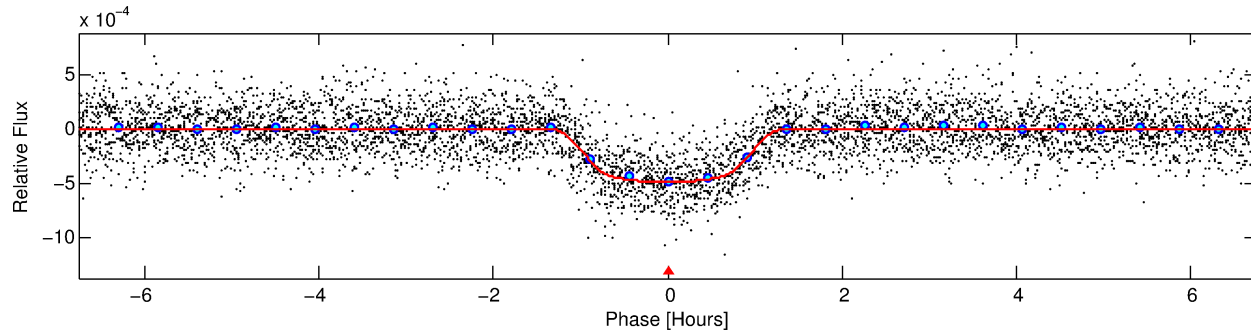
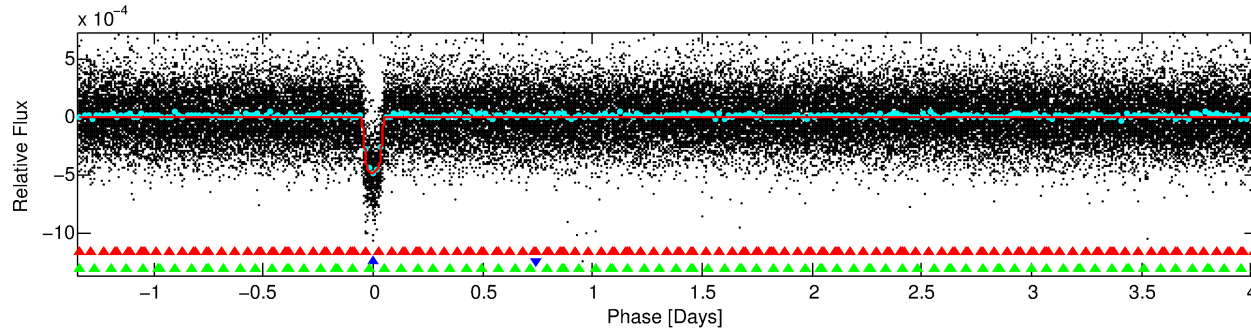
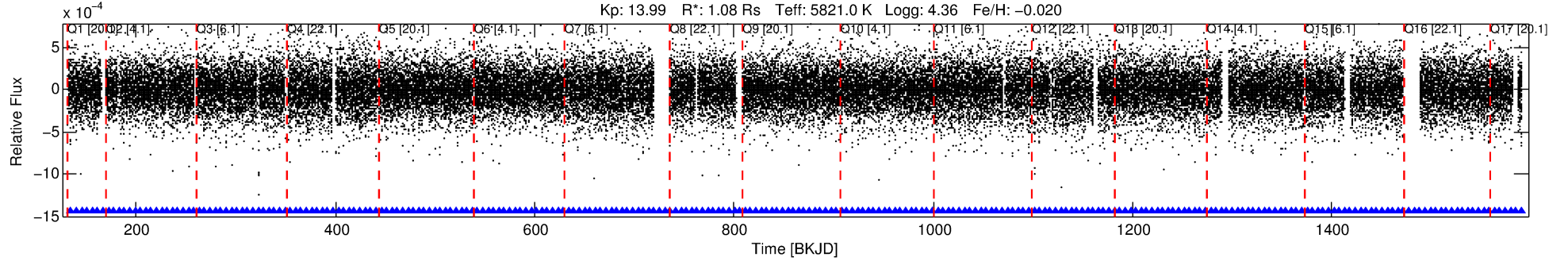
Ephemeris Match Information For 006062088-02

No Significant Match Found

DV One-Page Summary

KIC: 6062088 Candidate: 2 of 3 Period: 5.371 d
KOI: K00658.02 Name: Kepler-203c Corr: 0.952

Kp: 13.99 R*: 1.08 Rs Teff: 5821.0 K Logg: 4.36 Fe/H: -0.020



DV Fit Results:

Period = 5.37064 [0.00001] d
Epoch = 134.6433 [0.0007] BKJD
Rp/R* = 0.0241 [0.0016]
a/R* = 8.95 [2.73]
b = 0.90 [0.07]
Seff = 342.35 [77.03]
Teq = 1097 [62] K
Rp = 2.85 [0.46] Re
a = 0.0595 [0.0080] AU
Ag = 4.14 [2.27] [1.38σ]
Teffp = 2419 [310] K [4.18σ]

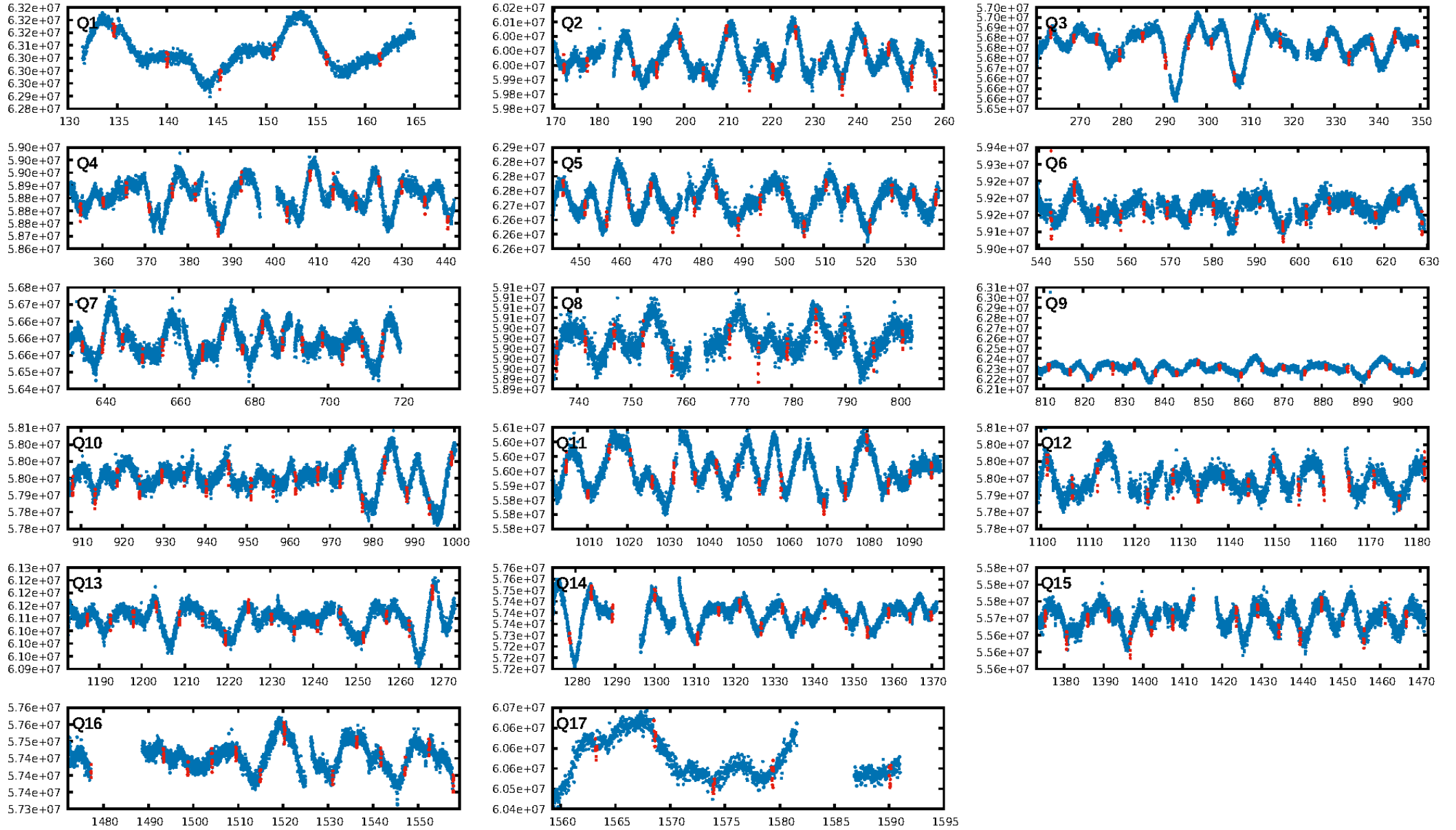
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [17.48σ]
LongPeriod-sig: 100.0% [30.59σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [222/222]
GhostDiagnostic-chr: 4.569
Centroid-sig: N/A
Centroid-so: 0.447 arcsec [2.52σ]
OotOffset-rm: 0.045 arcsec [0.29σ]
KicOffset-rm: 0.130 arcsec [1.03σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

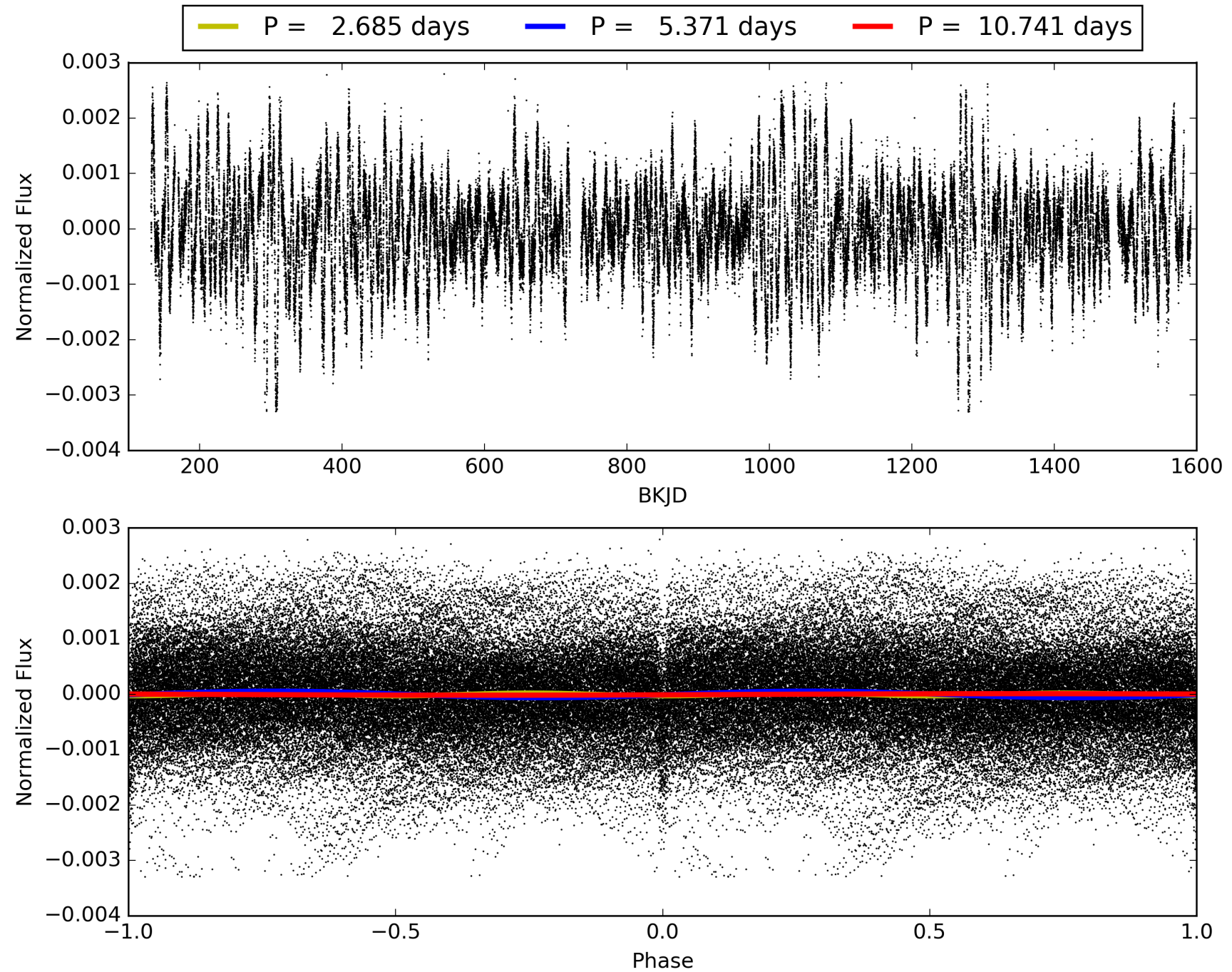
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 02:07:41 Z

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

TCE 006062088-02, PDC Light Curves

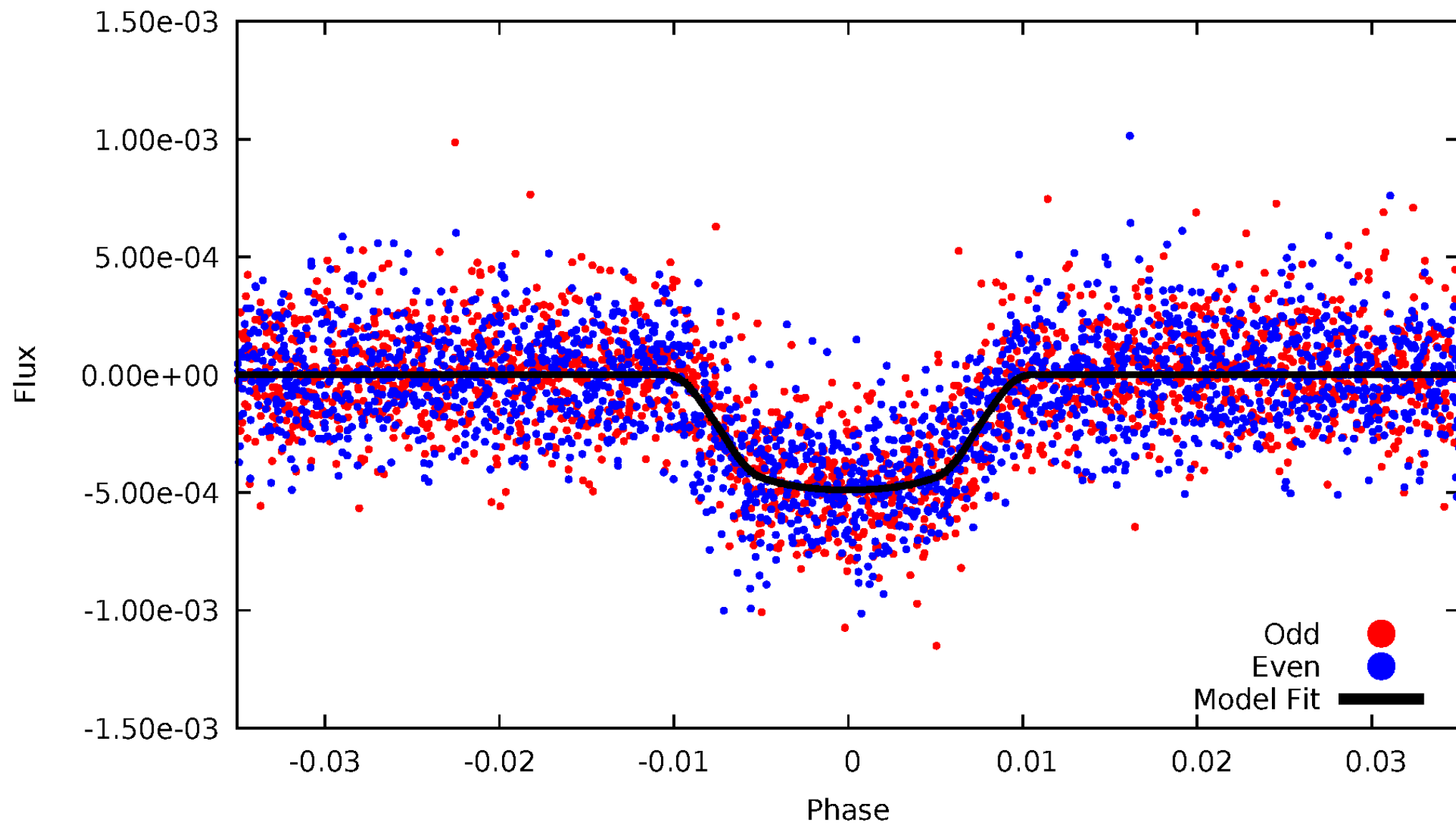


TCE 006062088-02



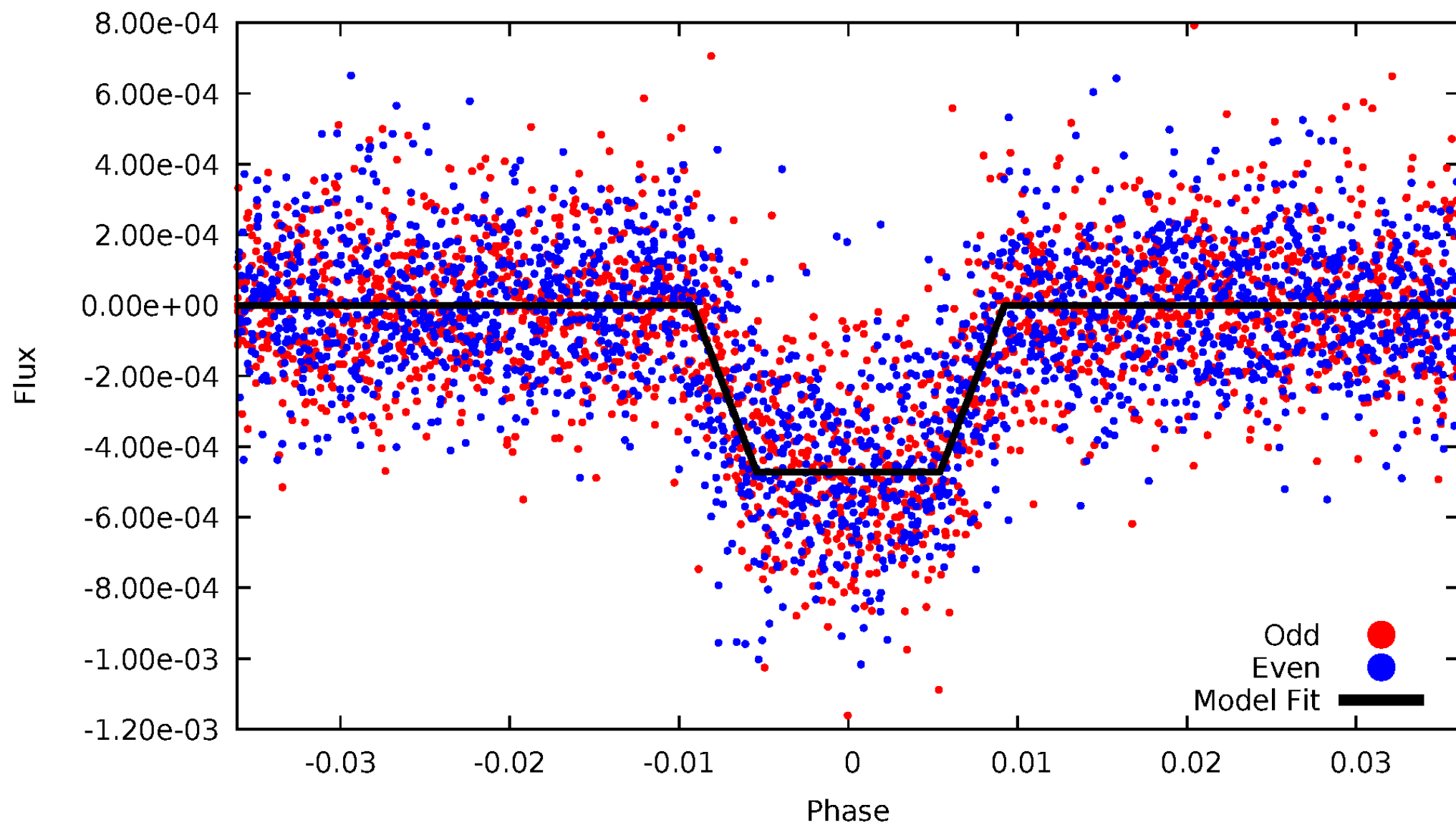
DV Odd/Even

TCE 006062088-02



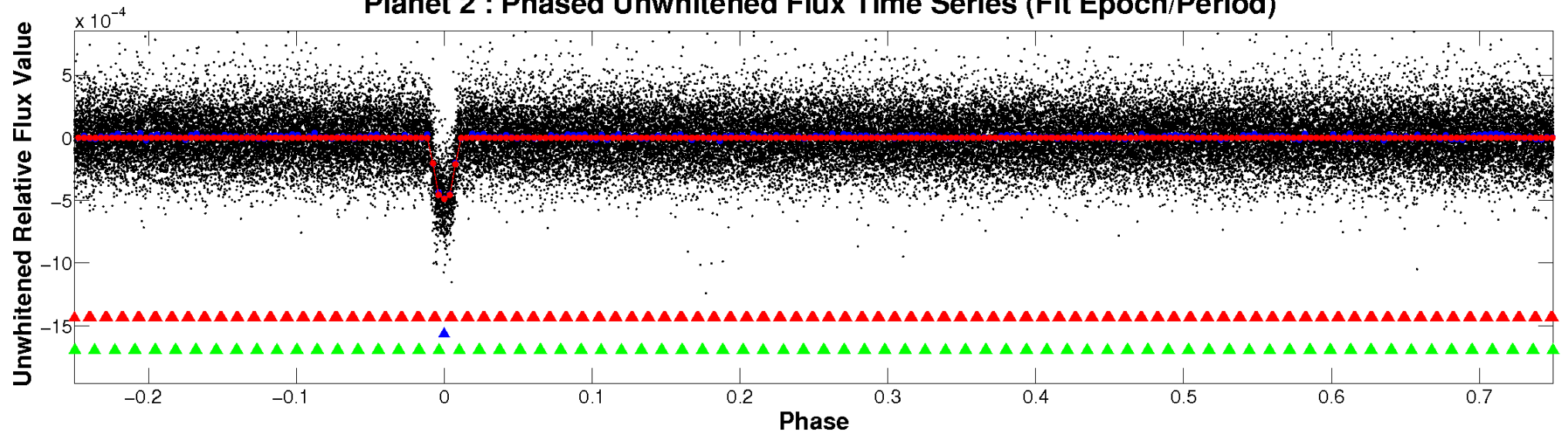
ALT Odd/Even

TCE 006062088-02

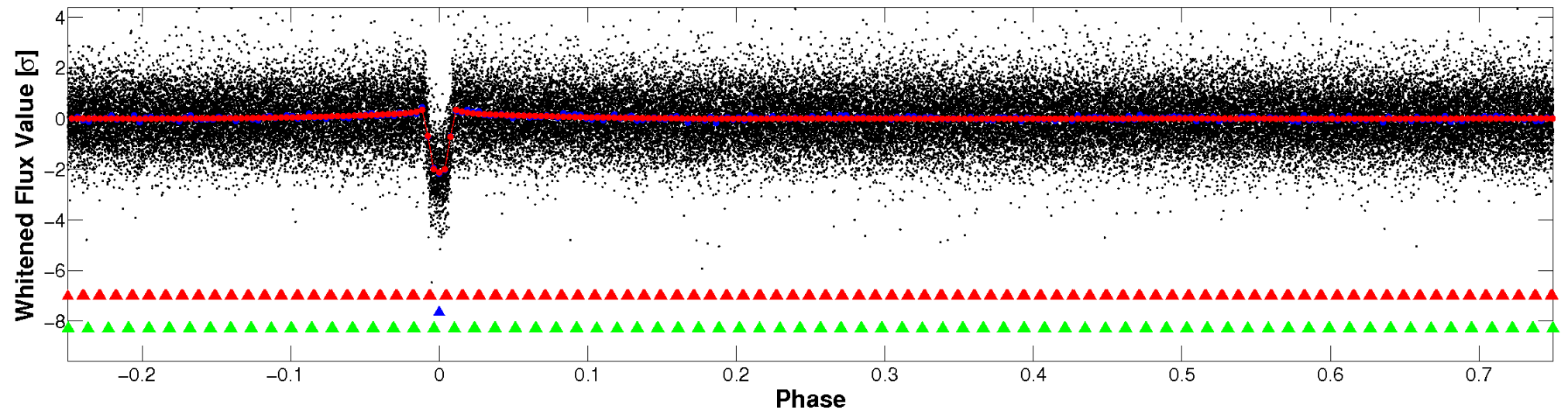


Non-Whitened Vs. Whitened Light Curve

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

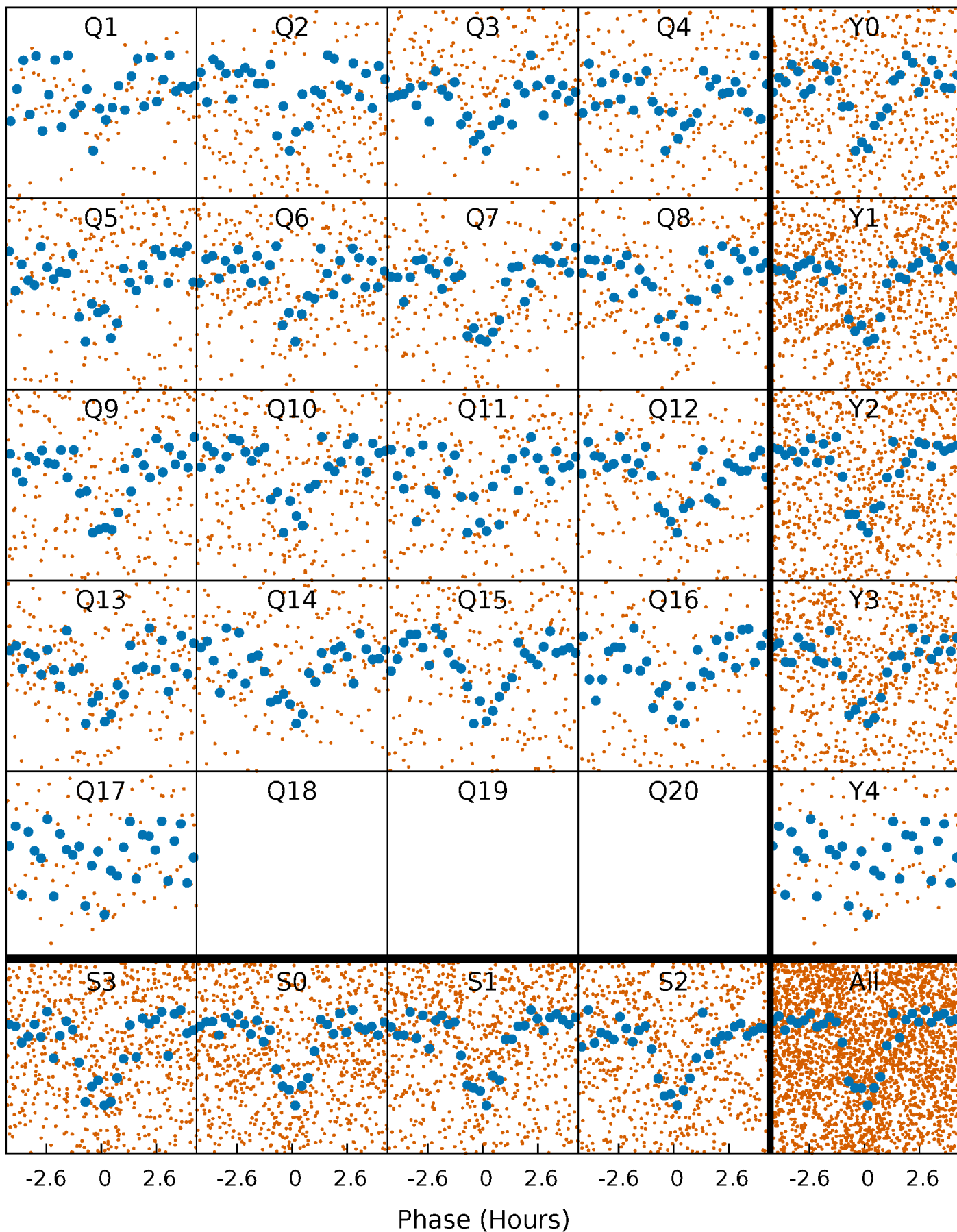


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



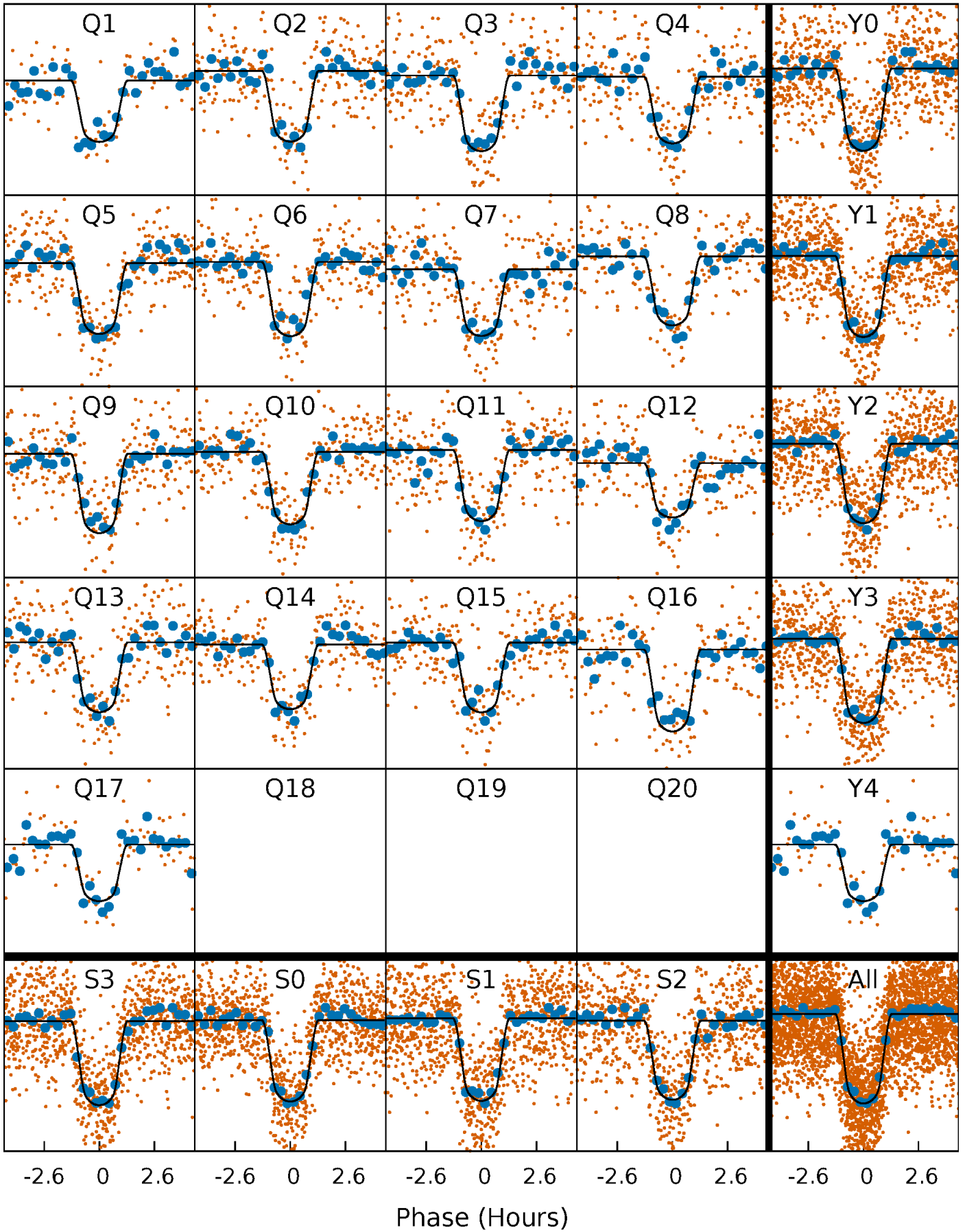
PDC Quarter-Phased Transit Curves

TCE 006062088-02 P= 5.370644 Days $T_0=134.643313$ (BKJD)



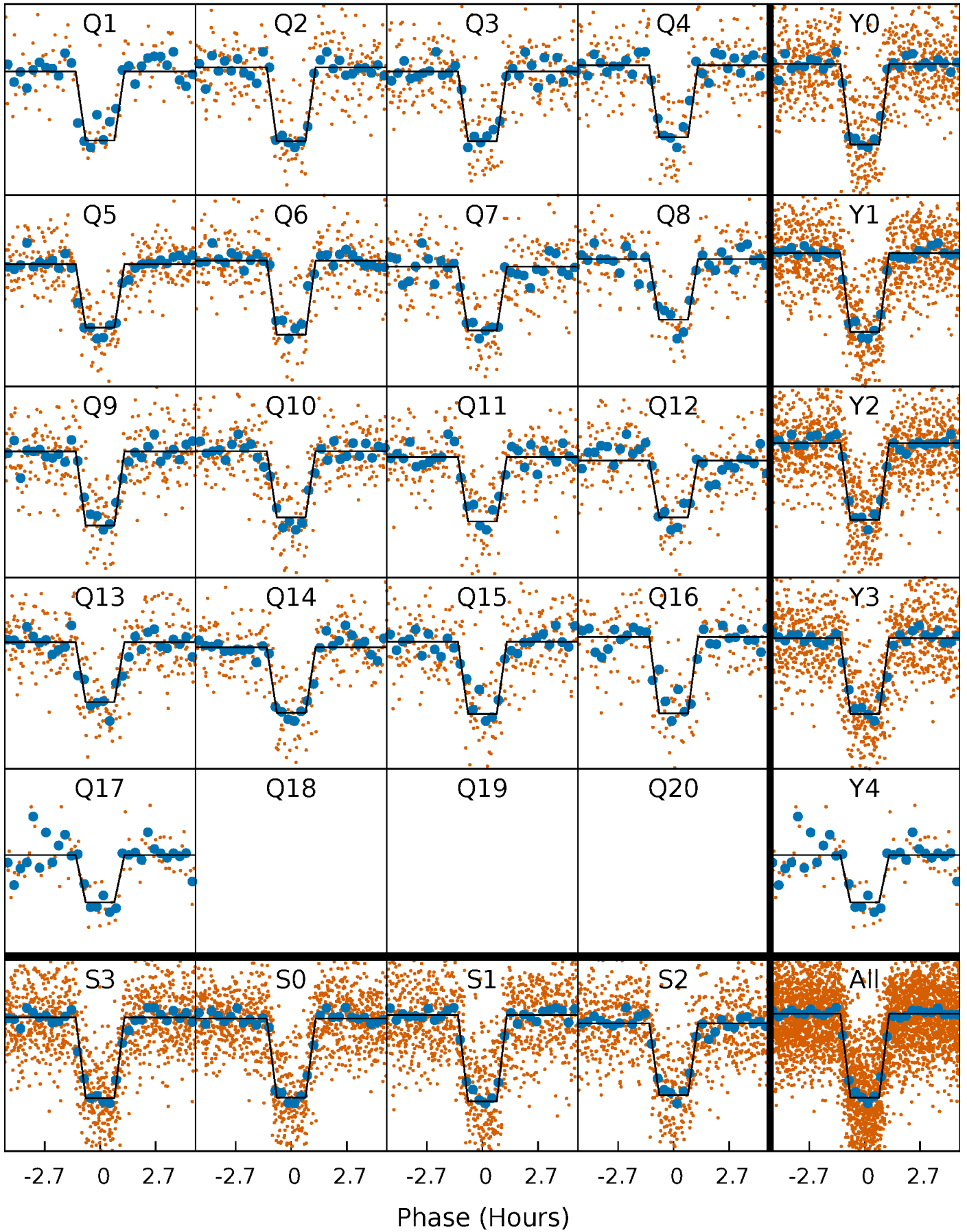
DV Quarter-Phased Transit Curves

TCE 006062088-02 P= 5.370644 Days $T_0=134.643313$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

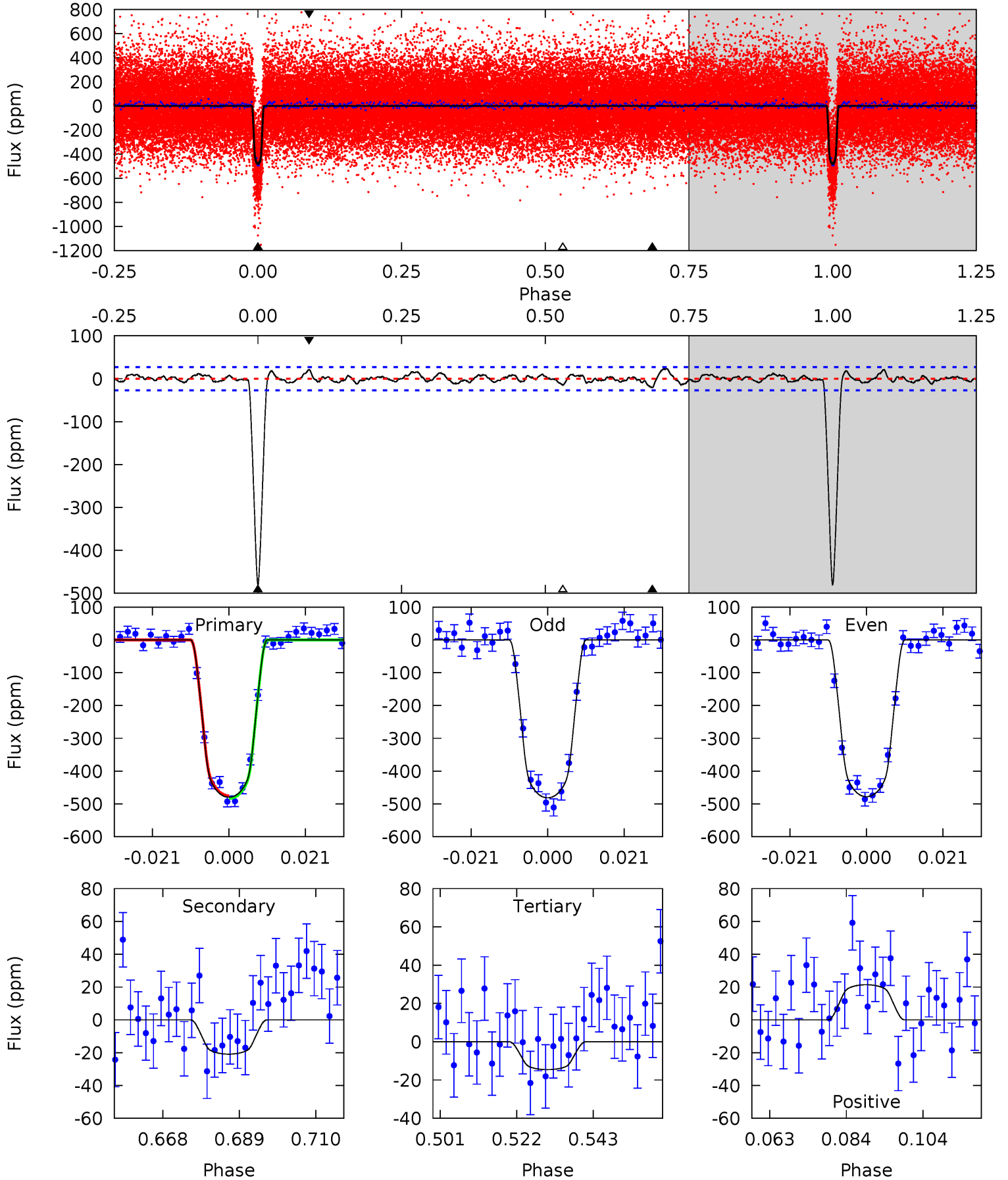
TCE 006062088-02 P= 5.370619 Days $T_0=134.646265$ (BKJD)



DV Model-Shift Uniqueness Test

006062088-02, P = 5.370644 Days, E = 129.272669 Days

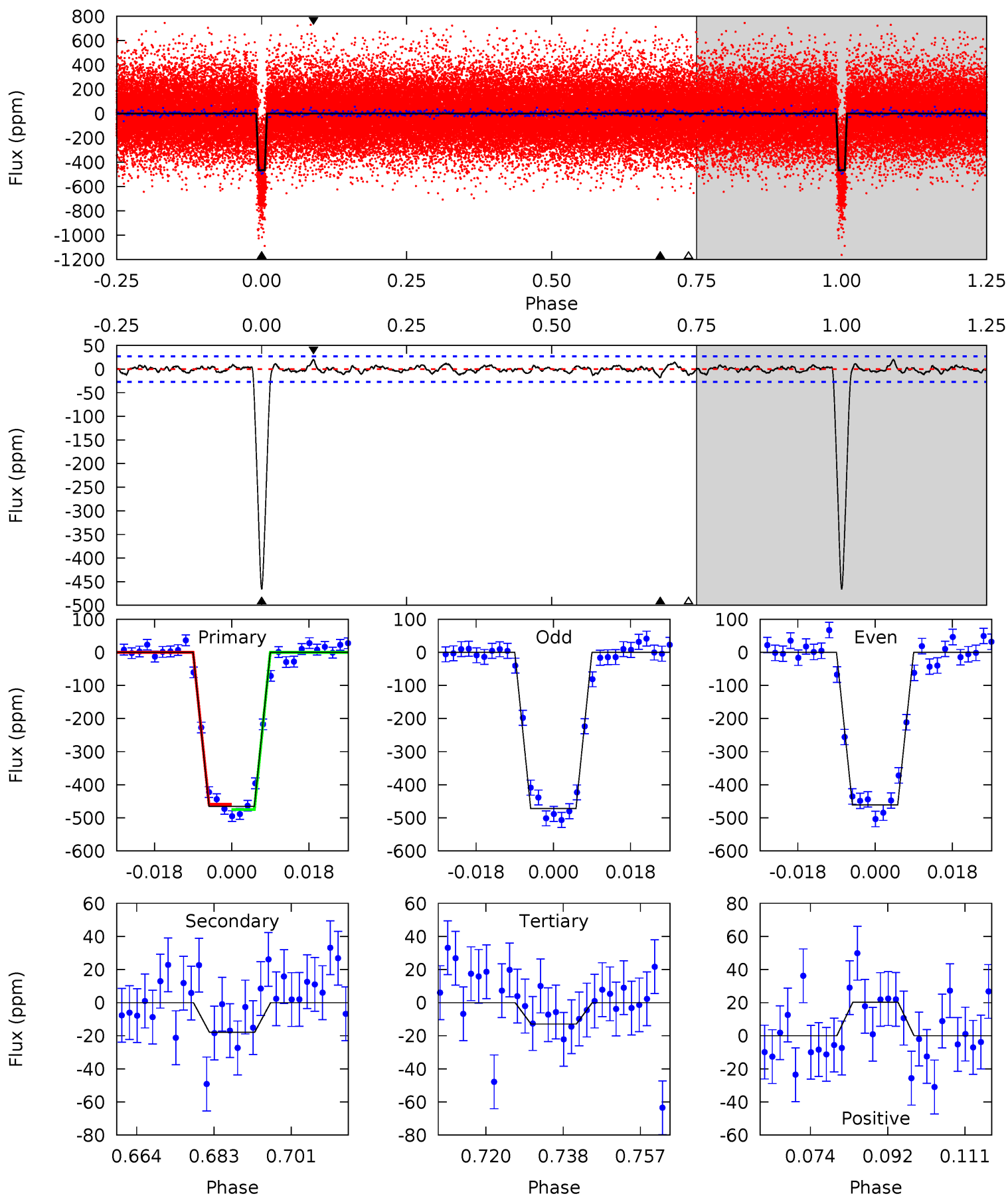
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
87.1	3.79	2.65	3.89	4.88	2.31	1.25	84.5	83.2	1.14	-0.10	0.32	1.01	0.05	0.67



Alt Model-Shift Uniqueness Test

006062088-02, P = 5.370619 Days, E = 129.275646 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
84.7	3.26	2.35	3.67	4.91	2.36	0.96	82.3	81.0	0.91	-0.41	1.01	1.00	0.04	1.45



Stellar Parameters For KIC 006062088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5821^{+105}_{-117}	$4.355^{+0.121}_{-0.110}$	$-0.020^{+0.150}_{-0.150}$	$1.085^{+0.160}_{-0.146}$	$0.972^{+0.074}_{-0.066}$	$1.072^{+0.523}_{-0.353}$
	+2%/-2%	+3%/-3%	+750%/-750%	+15%/-13%	+8%/-7%	+49%/-33%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 006062088-02 / KOI 0658.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-21 ± 6	$2.86^{+0.34}_{-0.30}$	1530^{+68}_{-68}	3115^{+144}_{-156}	$4.926^{+1.982}_{-1.473}$
Alt.	-18 ± 5	$2.56^{+0.31}_{-0.29}$	1527^{+75}_{-70}	3144^{+156}_{-193}	$5.220^{+2.342}_{-1.785}$

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

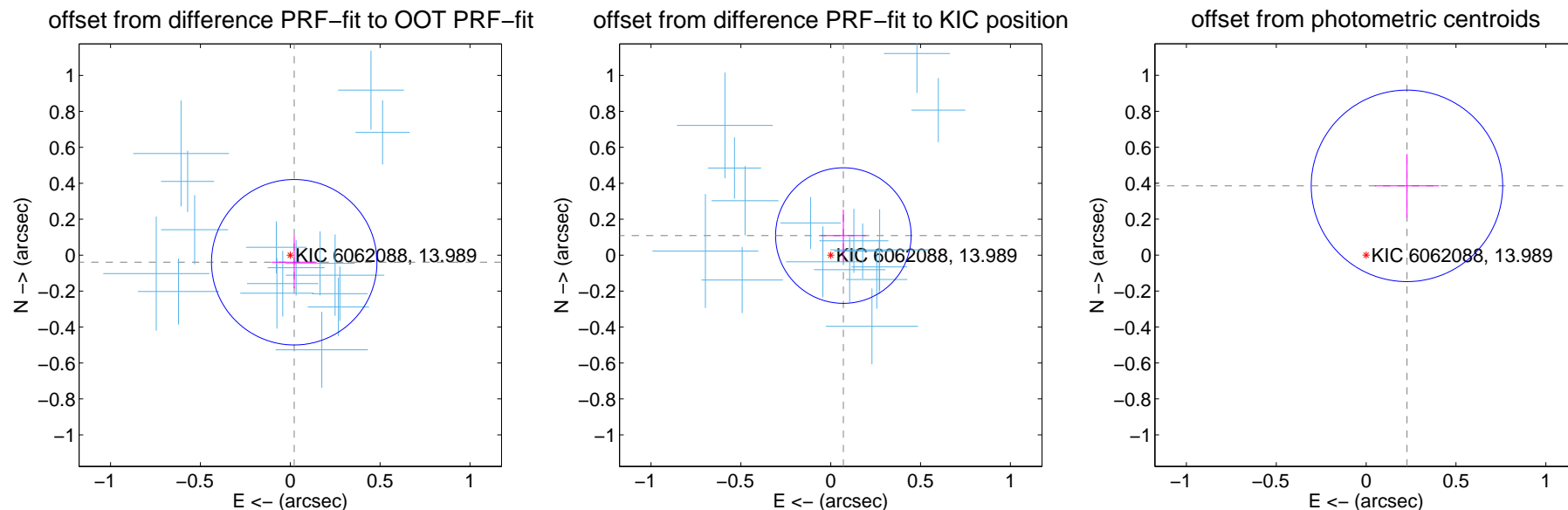
DV Centroid Data

Supplemental centroid analysis for 006062088-02. Kepler magnitude: 13.99. Transit SNR 56.04

There are 17 quarters with good PRF difference image offsets

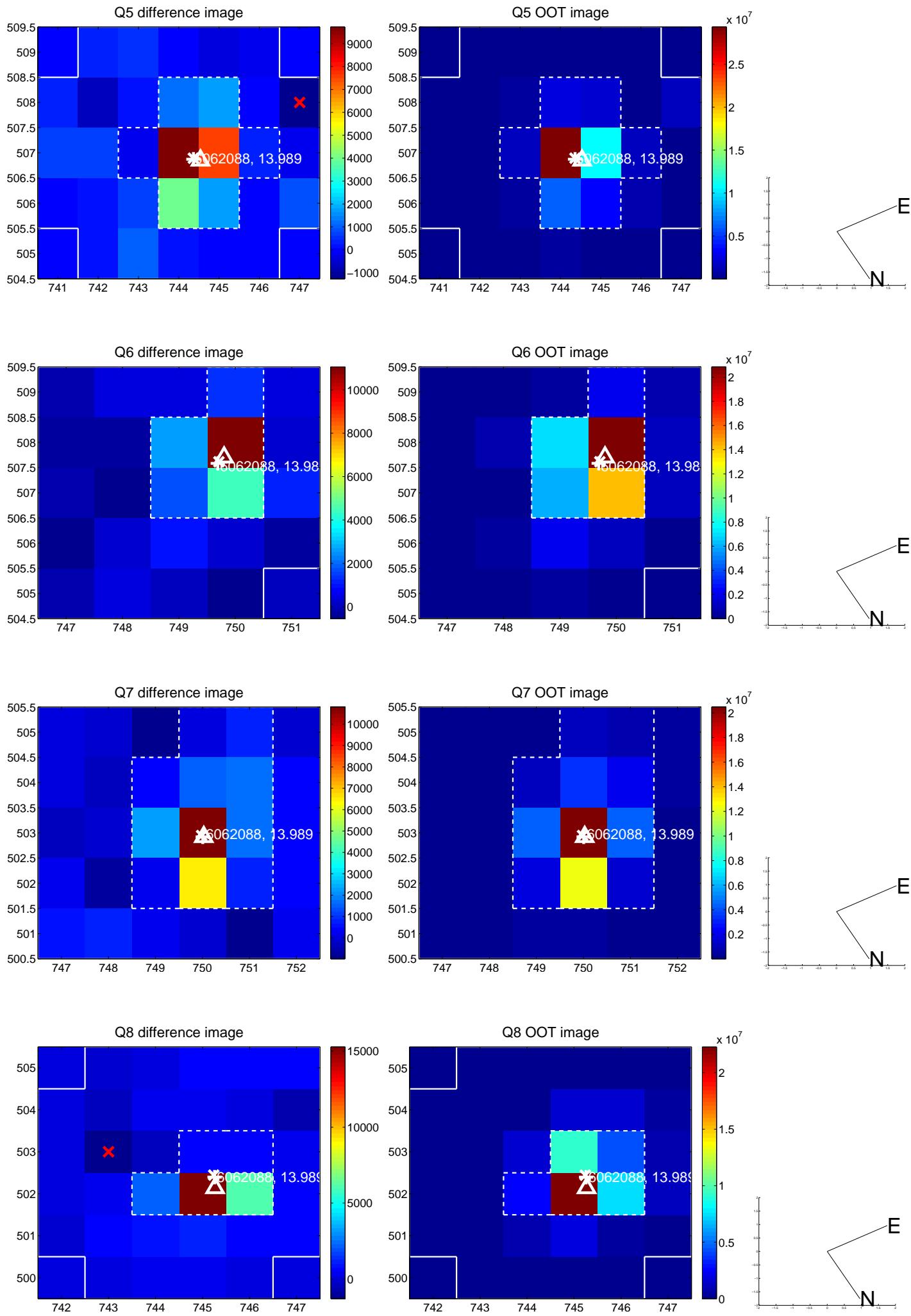
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.045 ± 0.153	0.29	-0.022 ± 0.125	-0.039 ± 0.146
PRF-fit source offset from KIC position	0.130 ± 0.126	1.03	-0.070 ± 0.125	0.109 ± 0.145
photometric centroid source offset	0.45 ± 0.18	2.52	-0.23 ± 0.18	0.39 ± 0.18

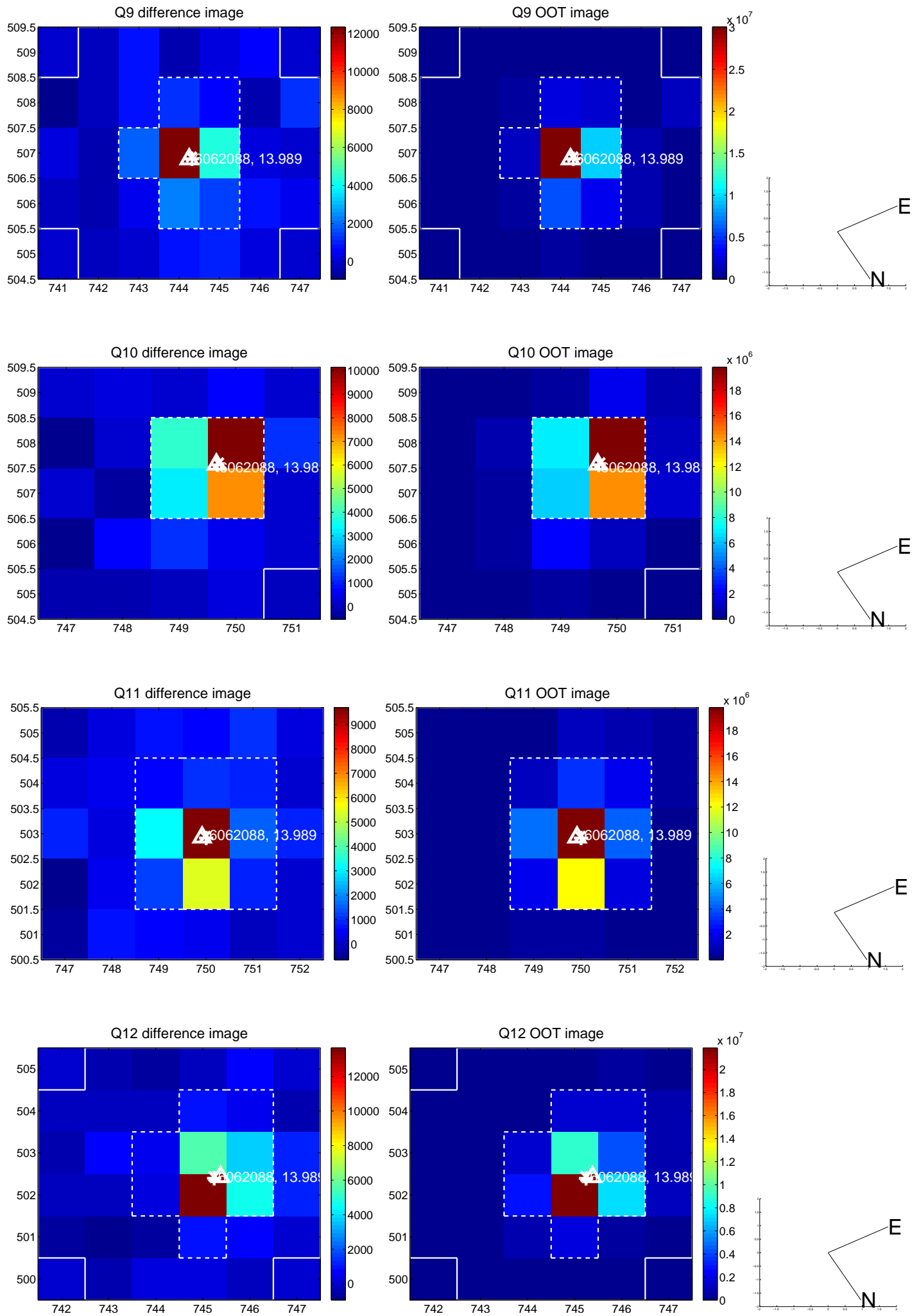


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

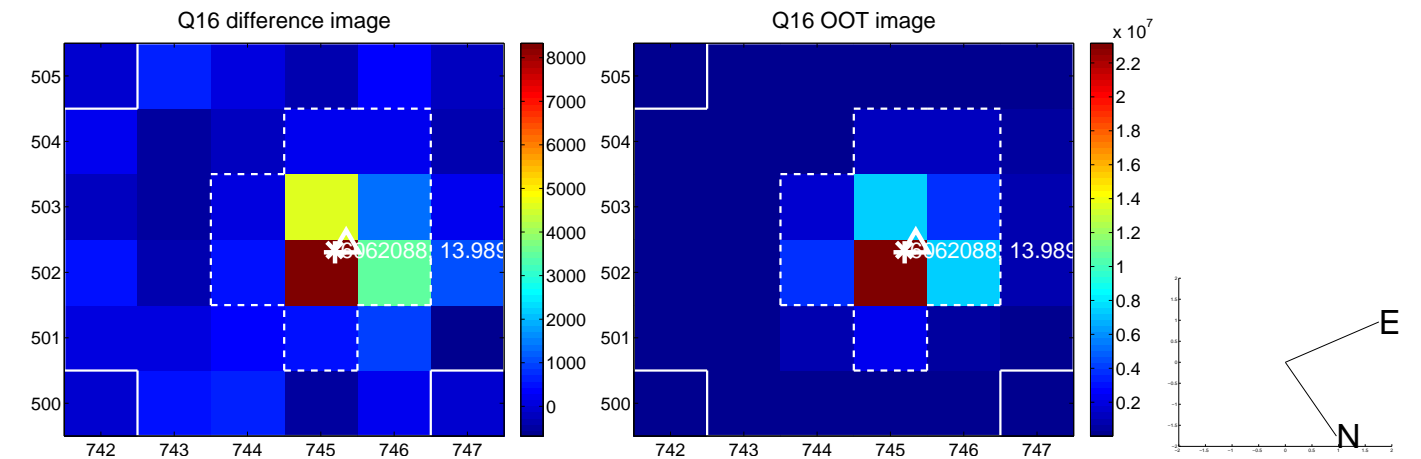
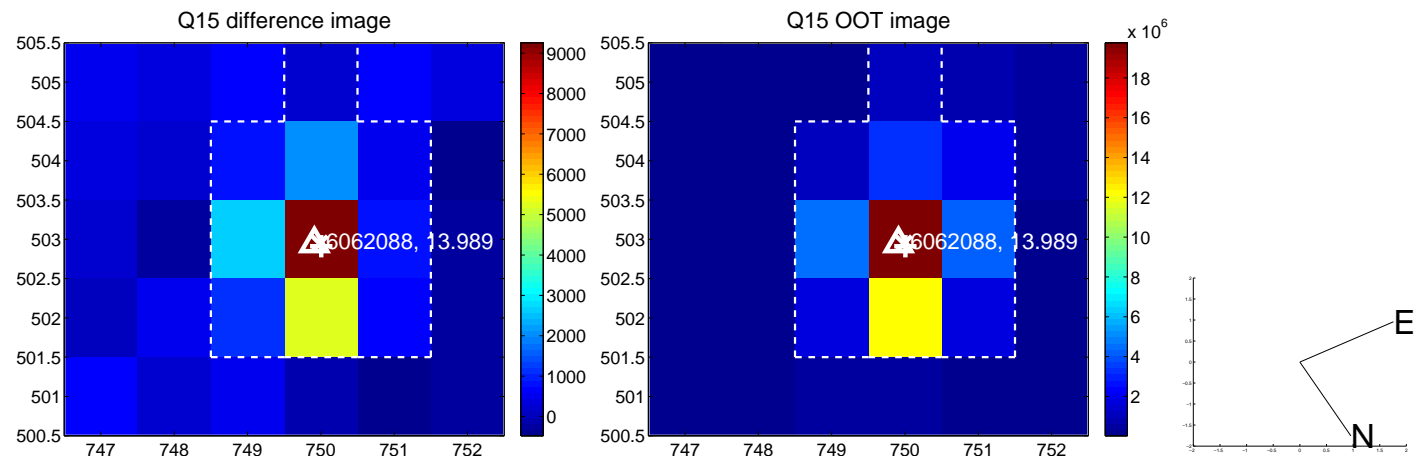
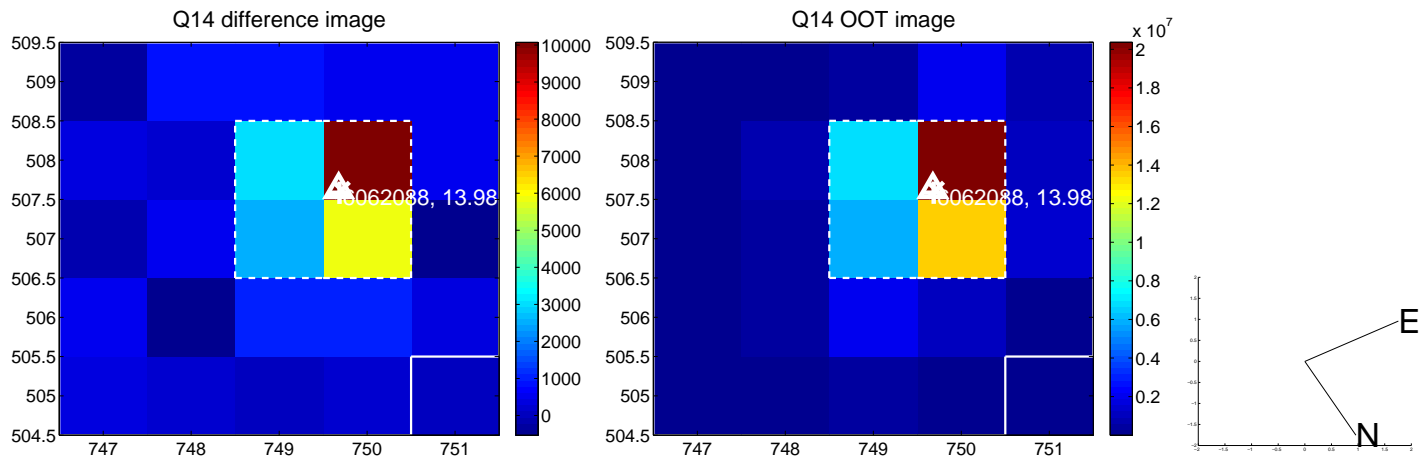
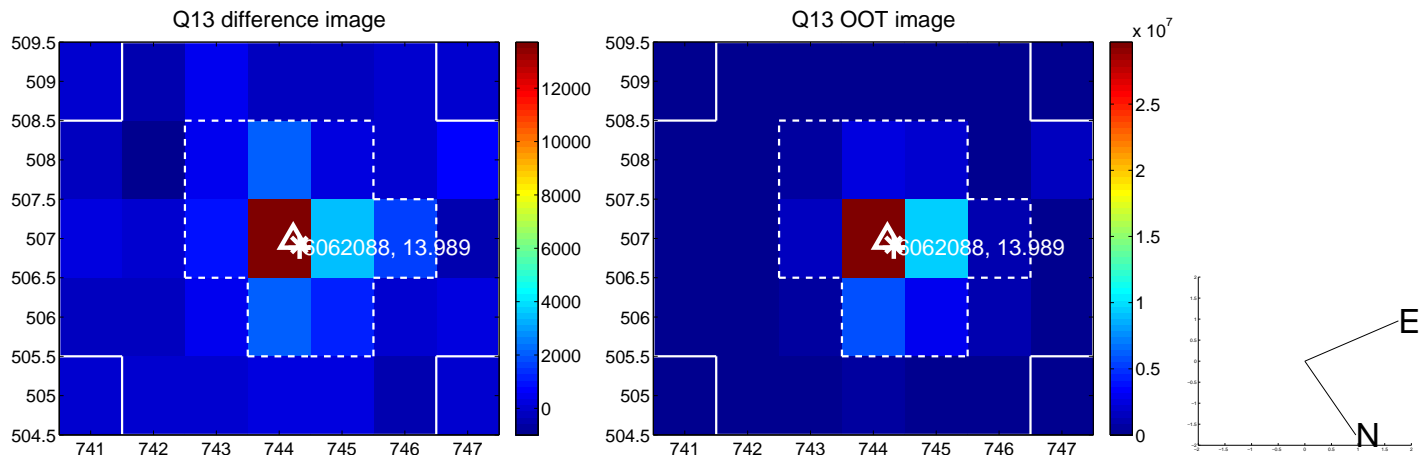
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



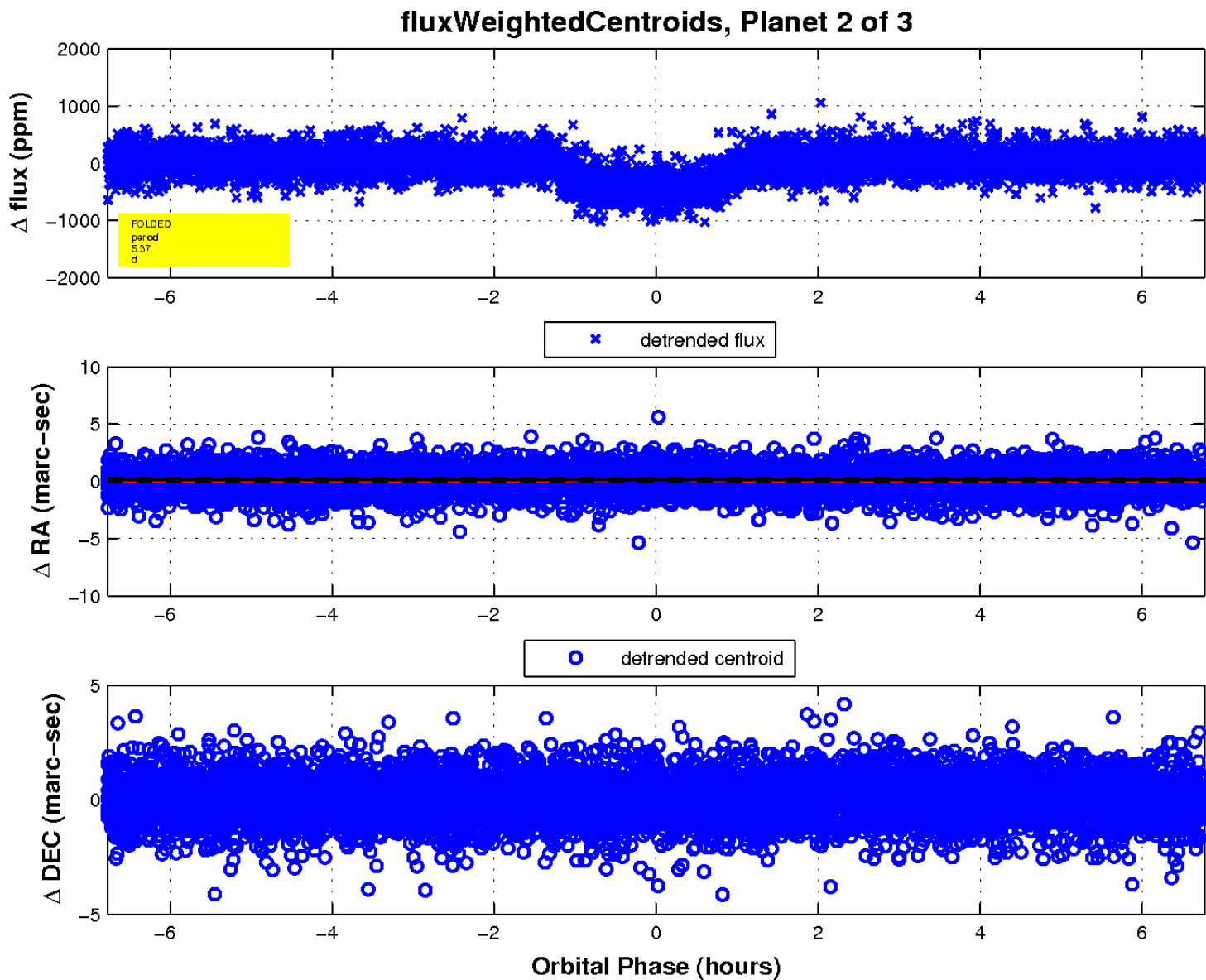
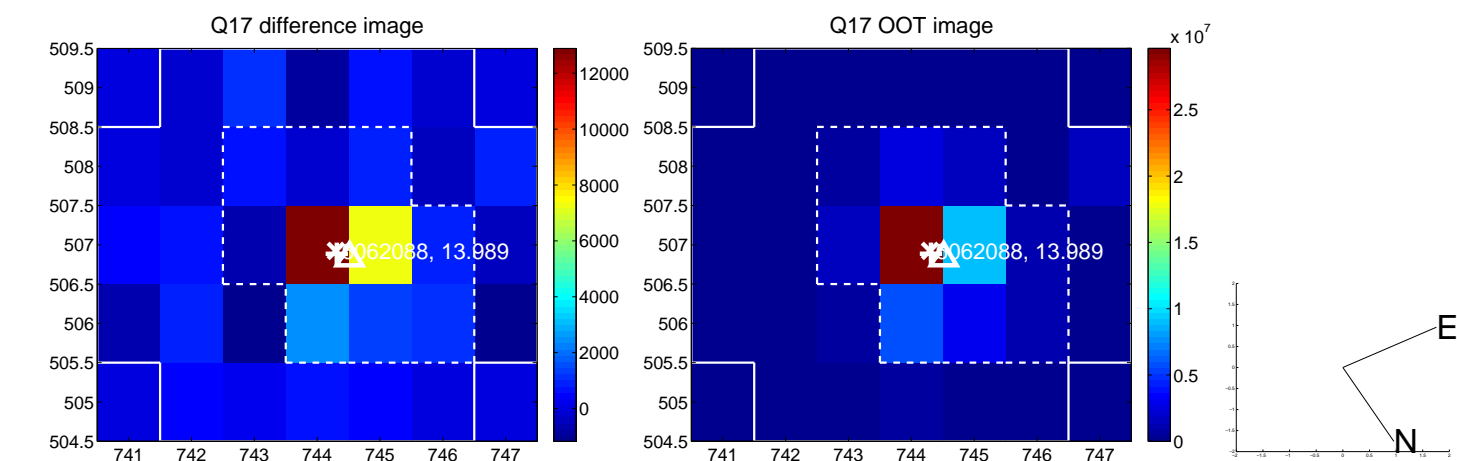
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

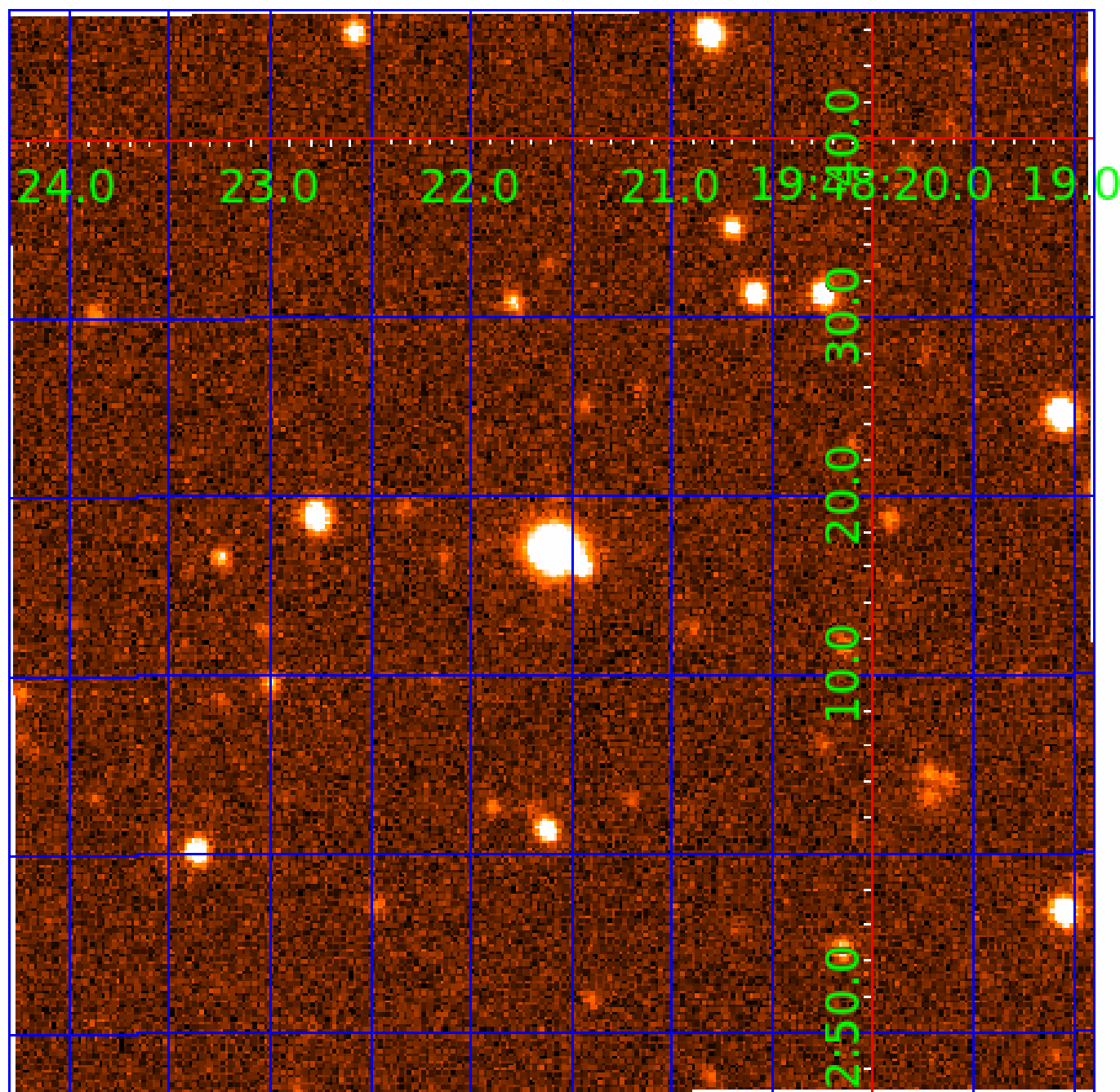


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006062088

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})
006062088-01	OBS	0658.01	3.162692	131.689773	494.2	2.022	65.0	72.6	1.08	5821	2.81	693.58
006062088-02	OBS	0658.02	5.370644	134.643313	489.3	2.258	50.1	56.0	1.08	5821	2.85	342.35
006062088-03	OBS	0658.03	11.329818	133.964684	160.4	4.095	14.2	15.5	1.08	5821	1.60	126.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006062088-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006062088-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006062088-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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.

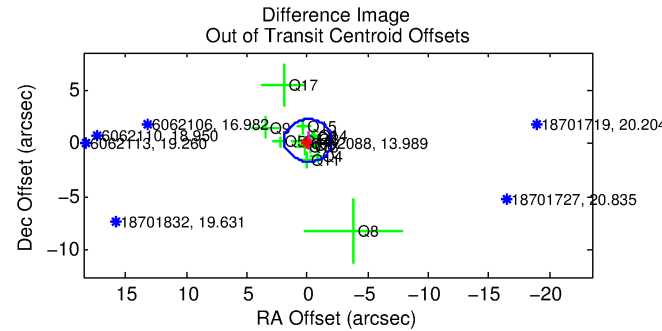
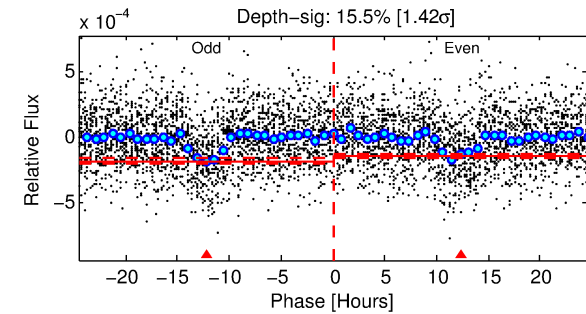
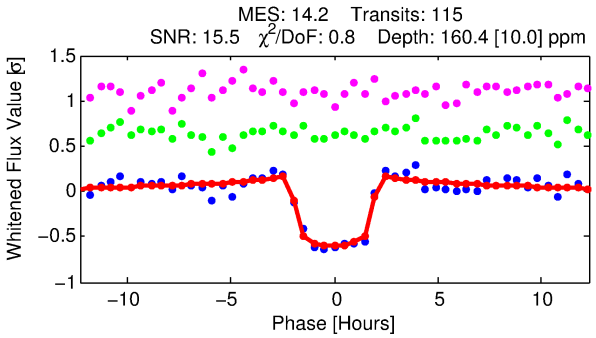
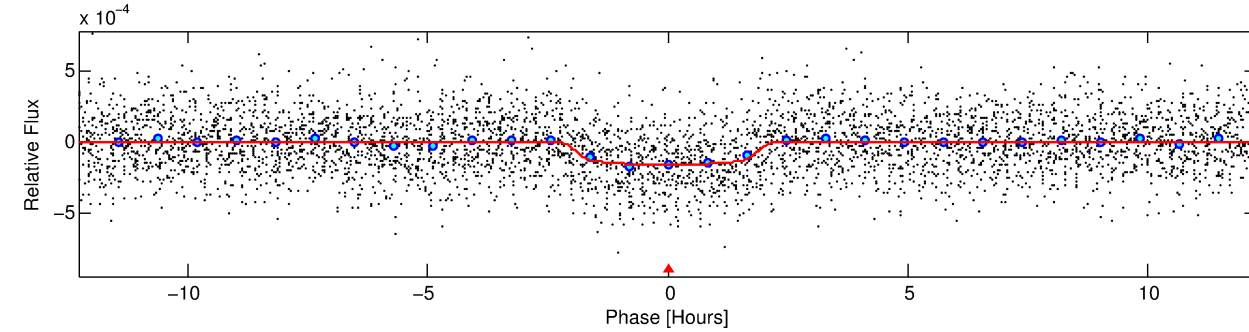
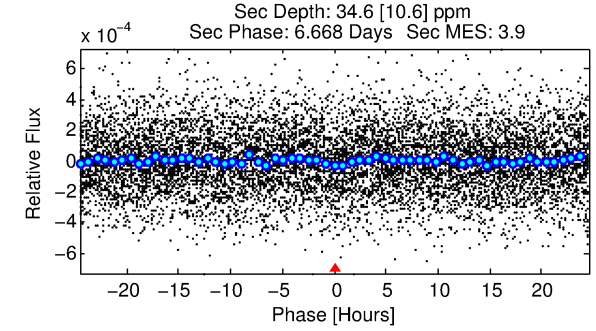
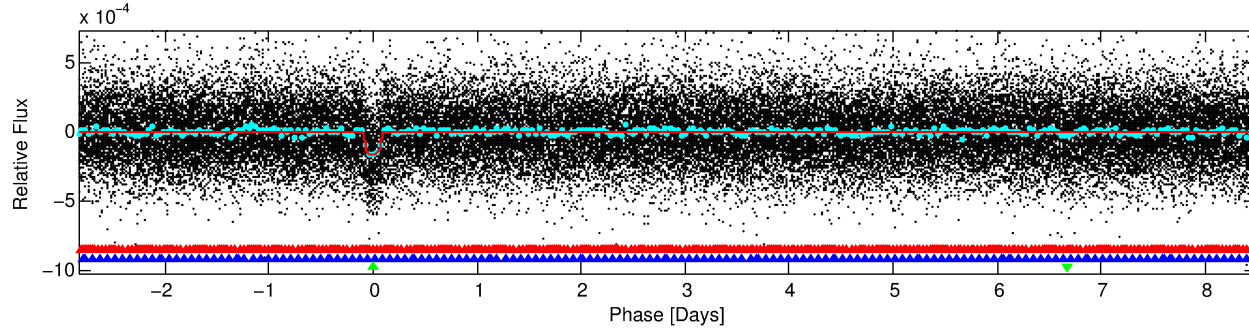
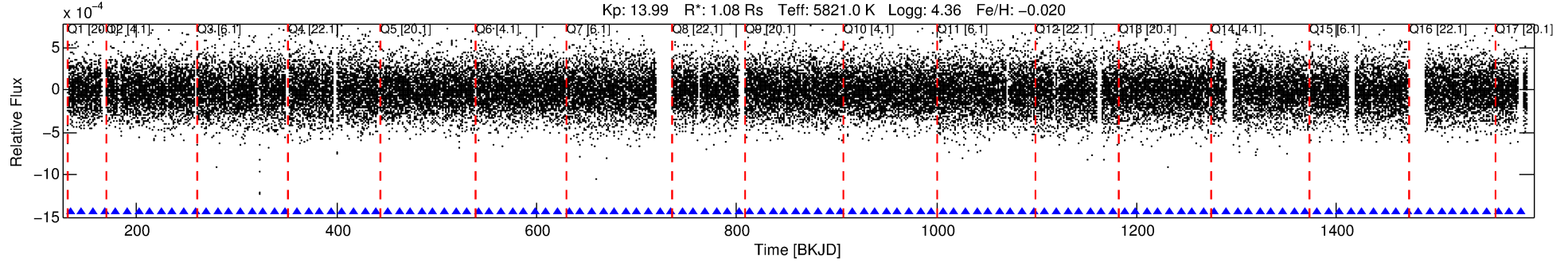
Ephemeris Match Information For 006062088-03

No Significant Match Found

DV One-Page Summary

KIC: 6062088 Candidate: 3 of 3 Period: 11.330 d
KOI: K00658.03 Name: Kepler-203d Corr: 0.980

Kp: 13.99 R*: 1.08 Rs Teff: 5821.0 K Logg: 4.36 Fe/H: -0.020



DV Fit Results:

Period = 11.32982 [0.00006] d
Epoch = 133.9647 [0.0044] BKJD
Rp/R* = 0.0135 [0.0038]
a/R* = 10.73 [14.39]
b = 0.88 [0.36]
Seff = 126.53 [28.47]
Teq = 855 [48] K
Rp = 1.60 [0.51] Re
a = 0.0978 [0.0132] AU
Ag = 71.16 [48.35] [1.45σ]
Teffp = 3840 [625] K [4.76σ]

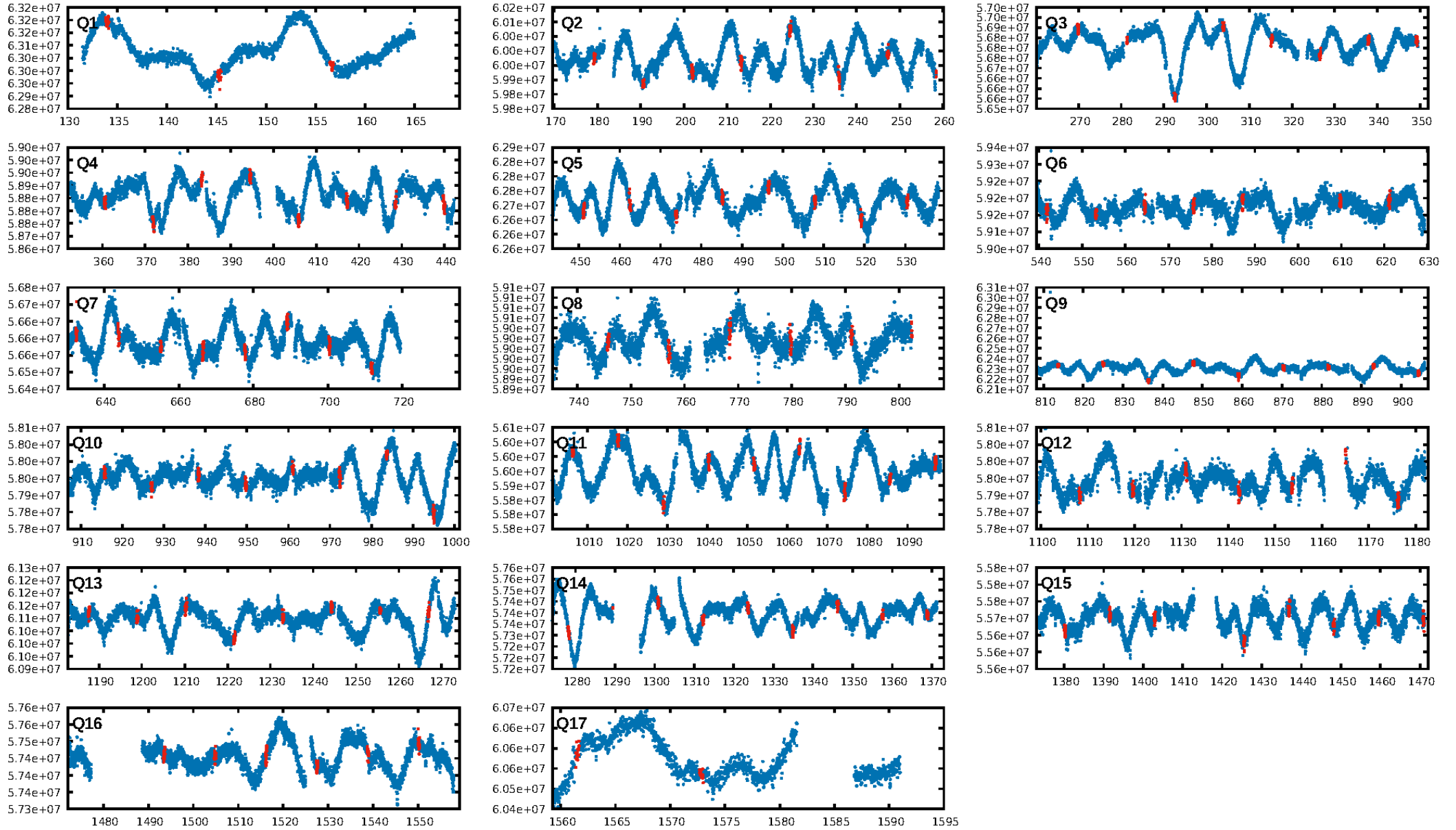
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [30.59σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 99.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.95e-44
RollingBand-fgt: 1.00 [110/110]
GhostDiagnostic-chr: 0.4309
Centroid-sig: N/A
Centroid-so: 0.794 arcsec [1.37σ]
OotOffset-rm: 0.264 arcsec [0.40σ]
KicOffset-rm: 0.384 arcsec [0.58σ]
OotOffset-st: 2/4/3/4 [13]
KicOffset-st: 2/4/3/4 [13]
DiffImageQuality-fgm: 0.69 [9/13]
DiffImageOverlap-fno: 1.00 [17/17]

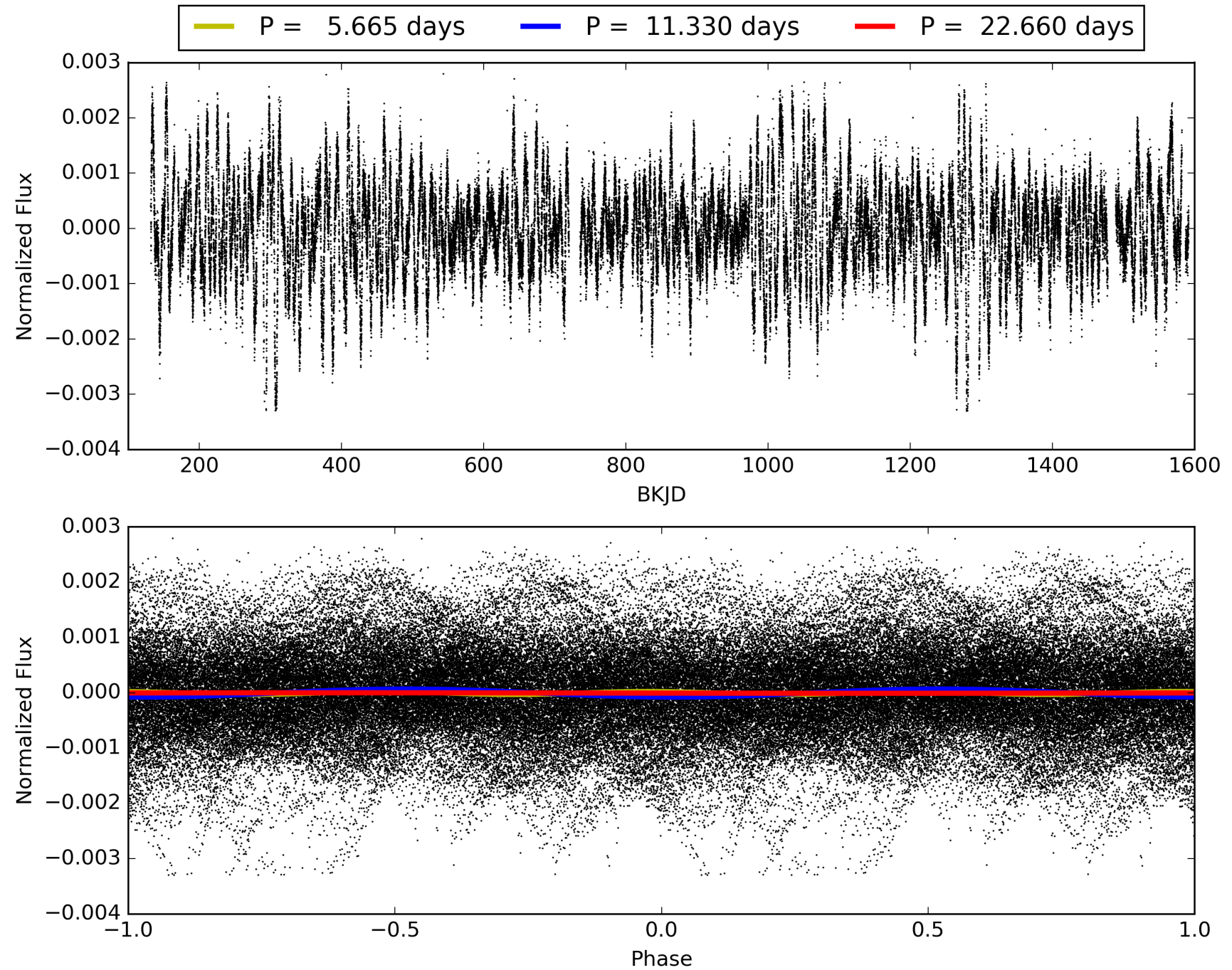
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 02:07:48 Z

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

TCE 006062088-03, PDC Light Curves

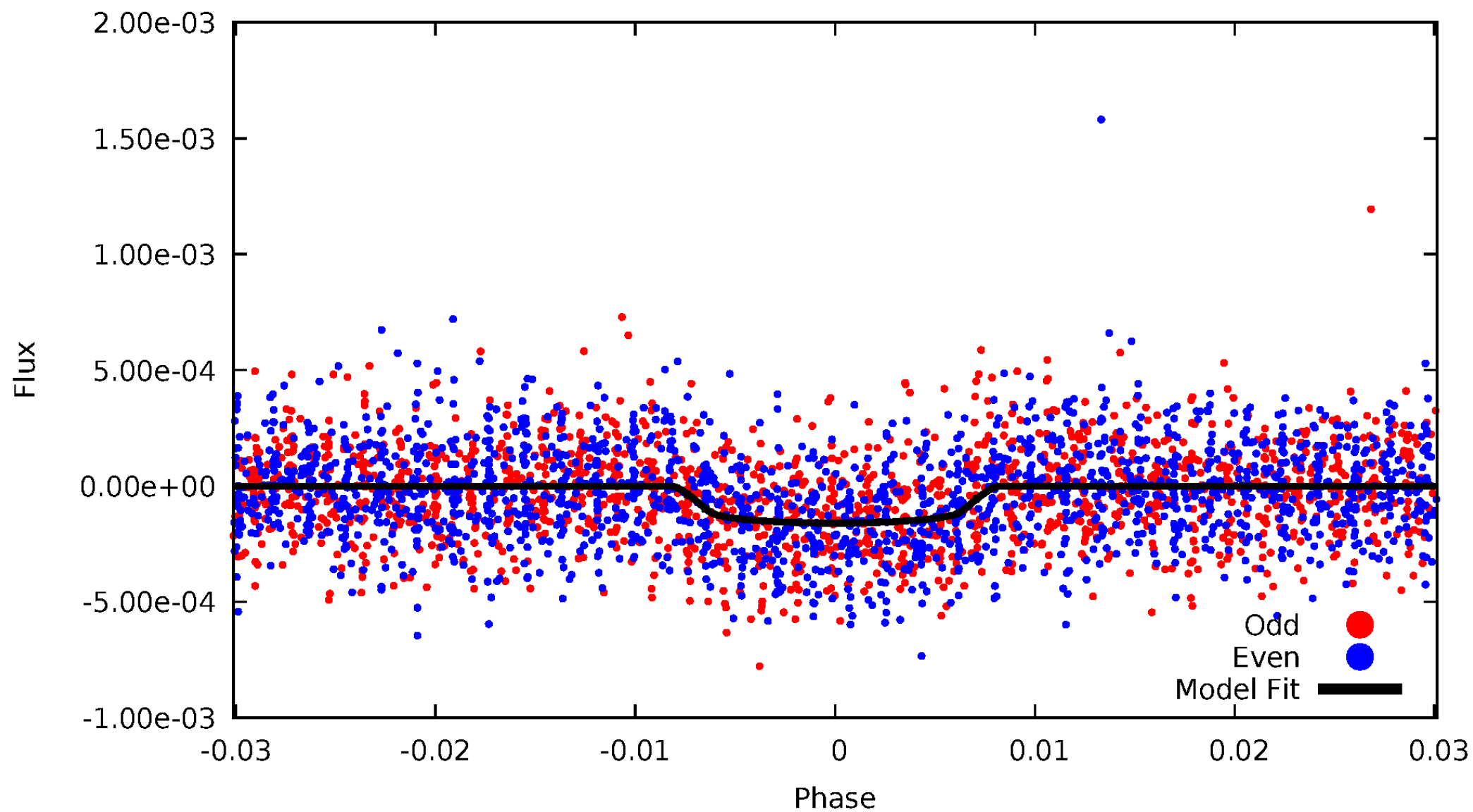


TCE 006062088-03



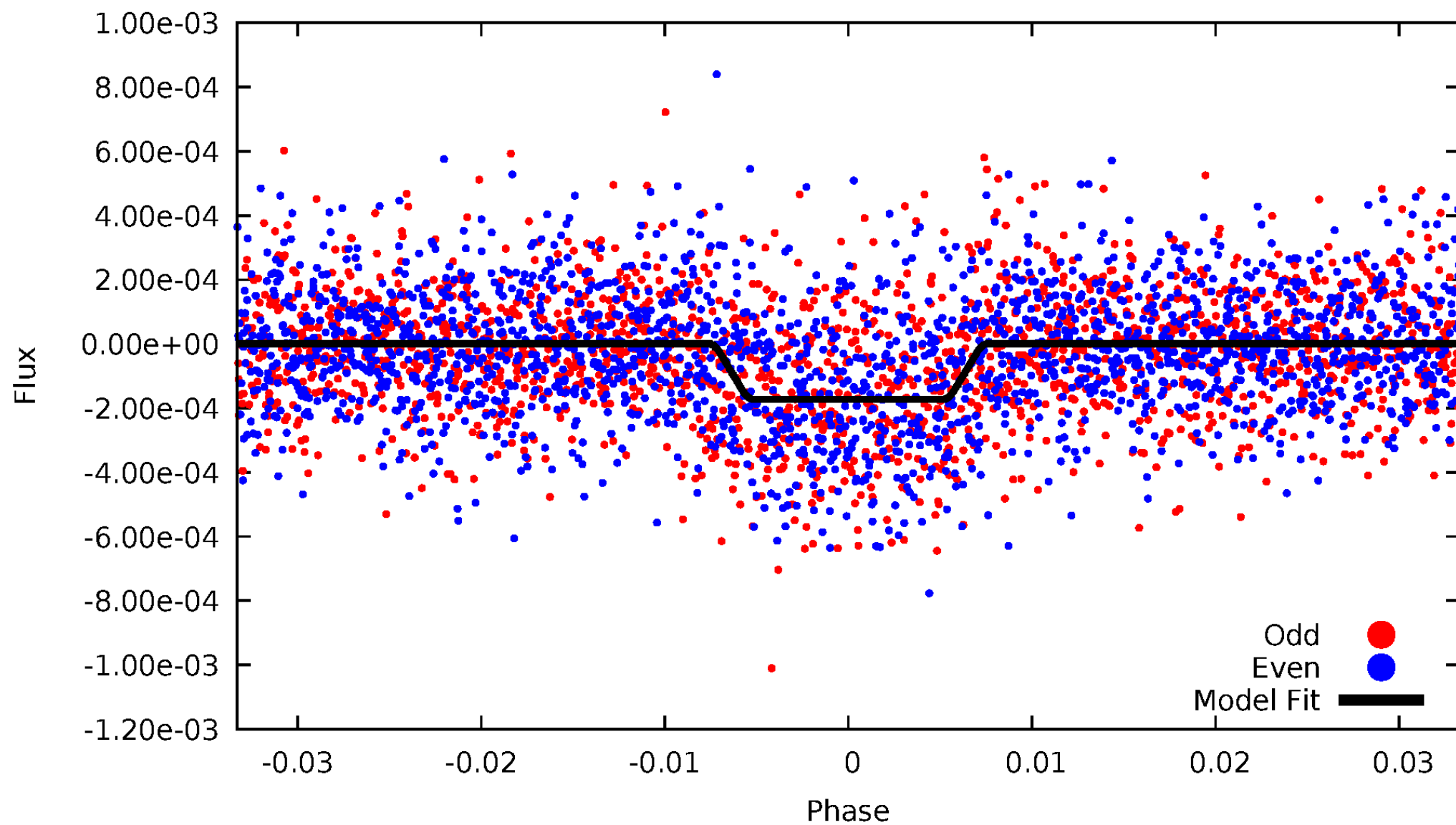
DV Odd/Even

TCE 006062088-03

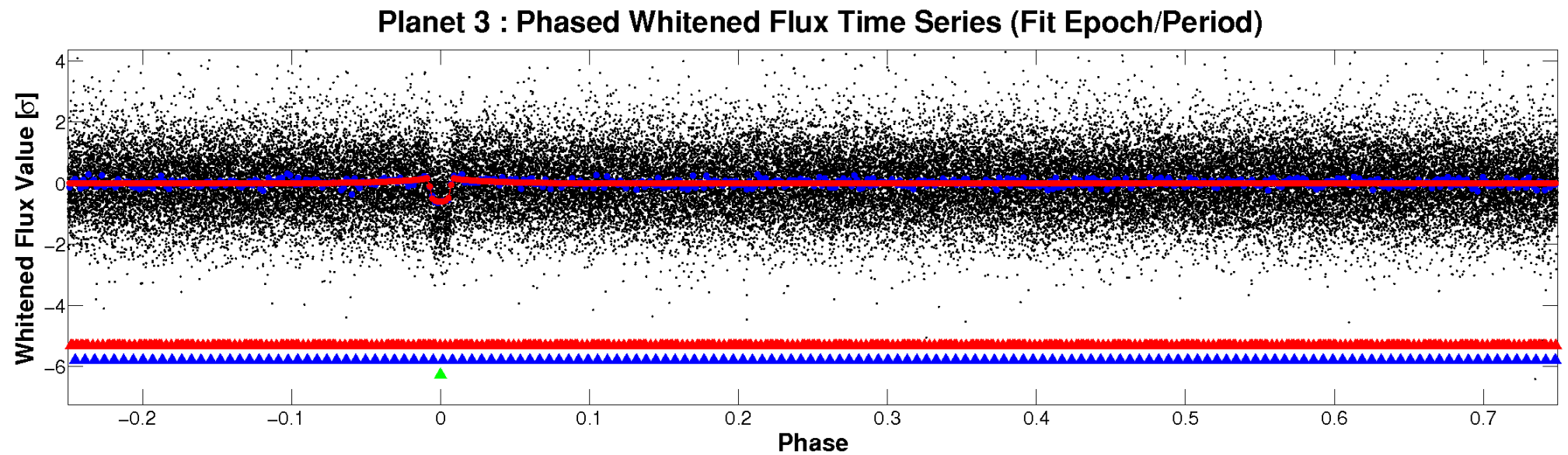
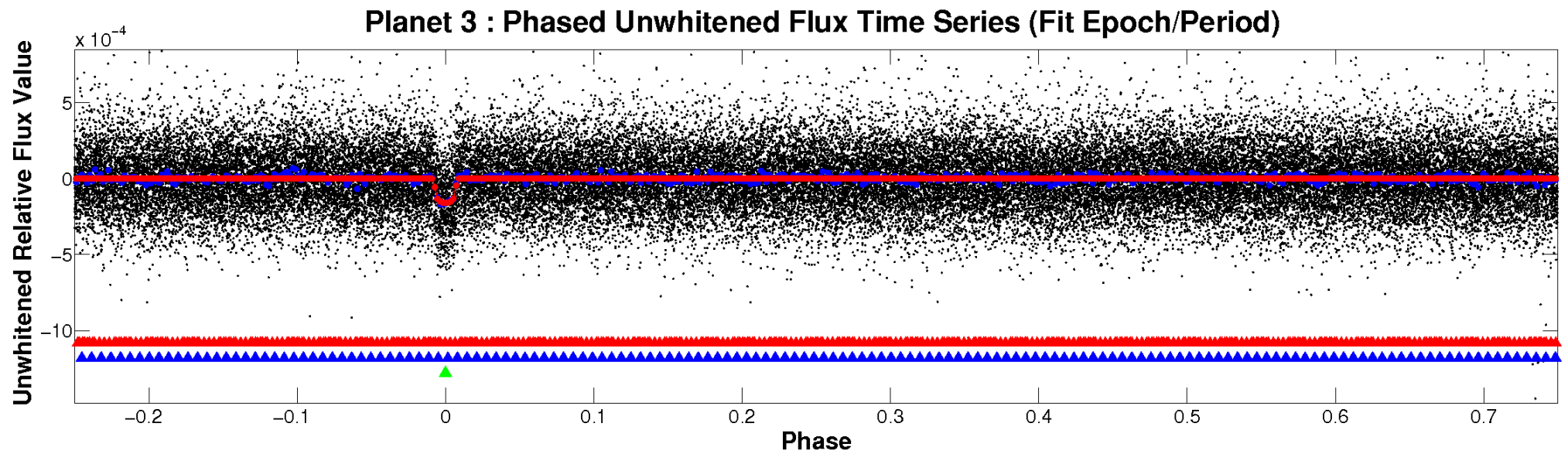


ALT Odd/Even

TCE 006062088-03

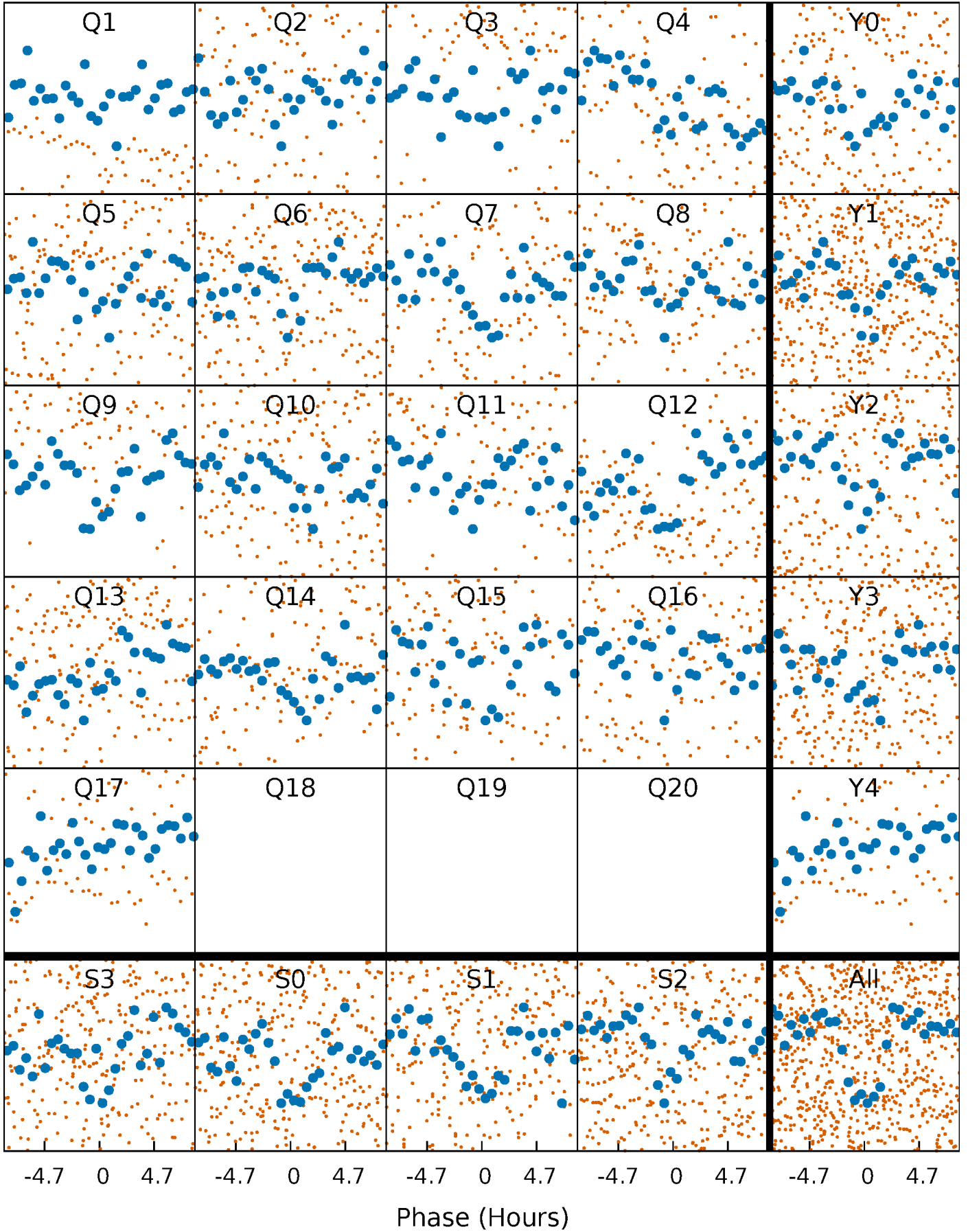


Non-Whitened Vs. Whitened Light Curve



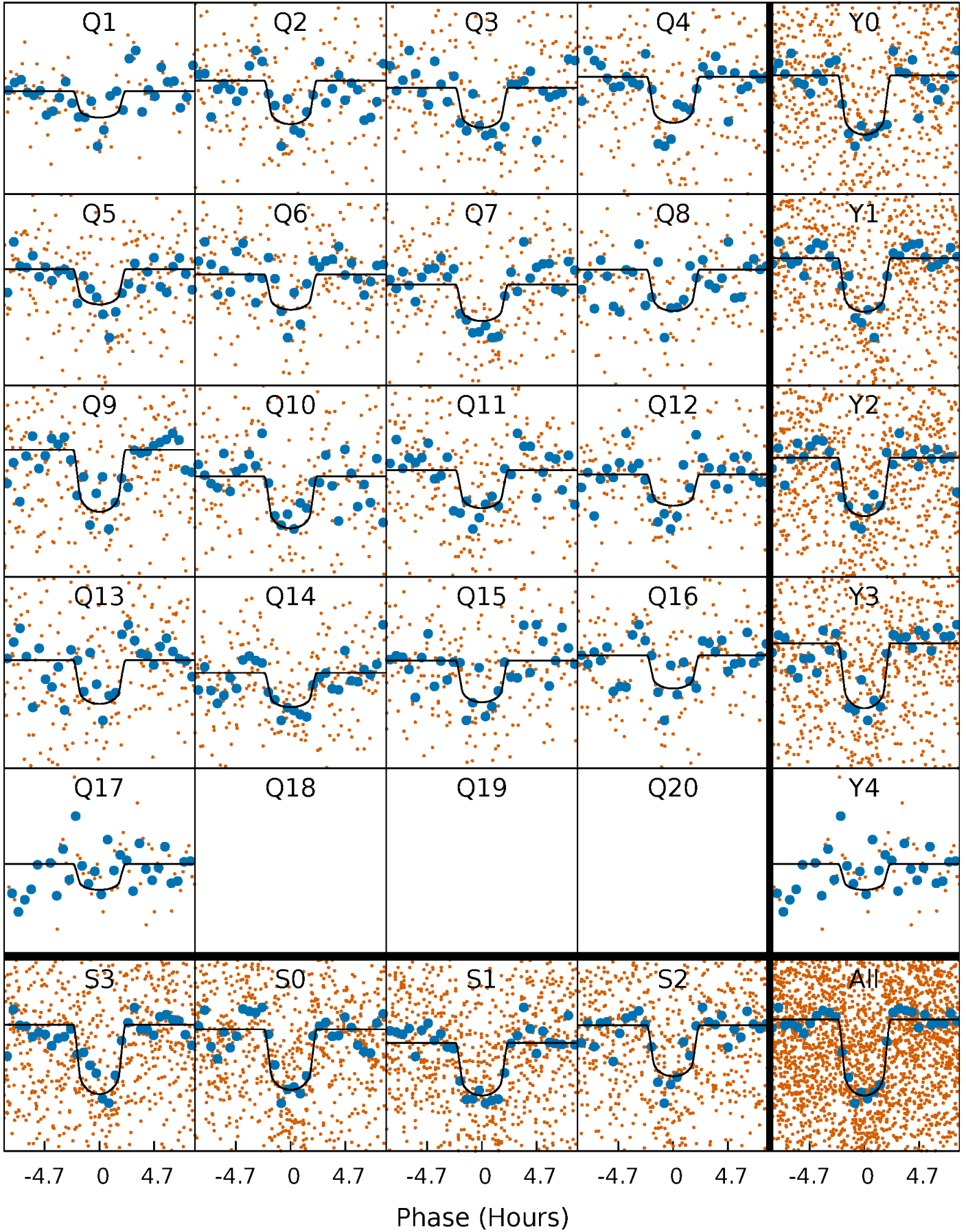
PDC Quarter-Phased Transit Curves

TCE 006062088-03 P= 11.329818 Days $T_0=133.964684$ (BKJD)



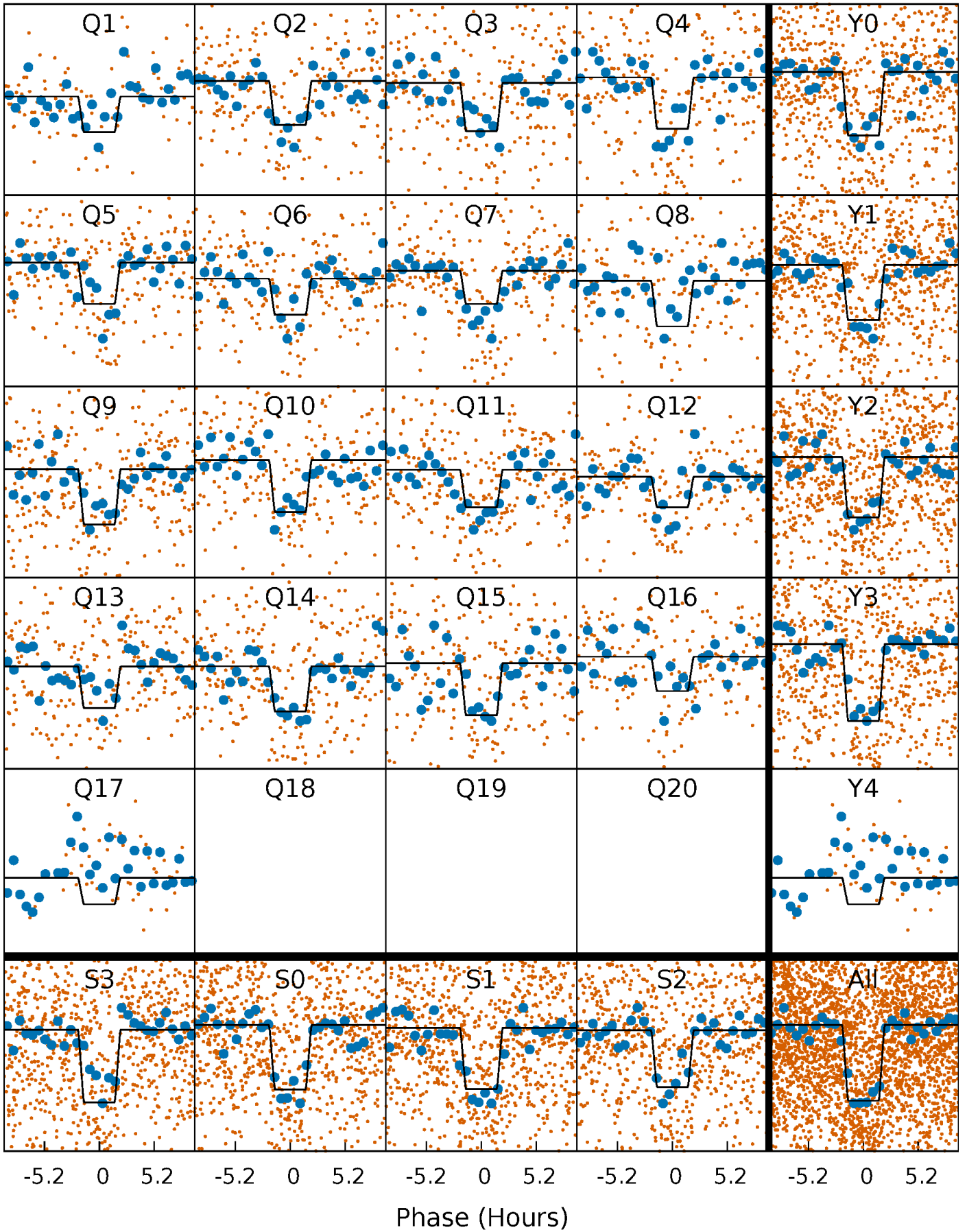
DV Quarter-Phased Transit Curves

TCE 006062088-03 P= 11.329818 Days $T_0=133.964684$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

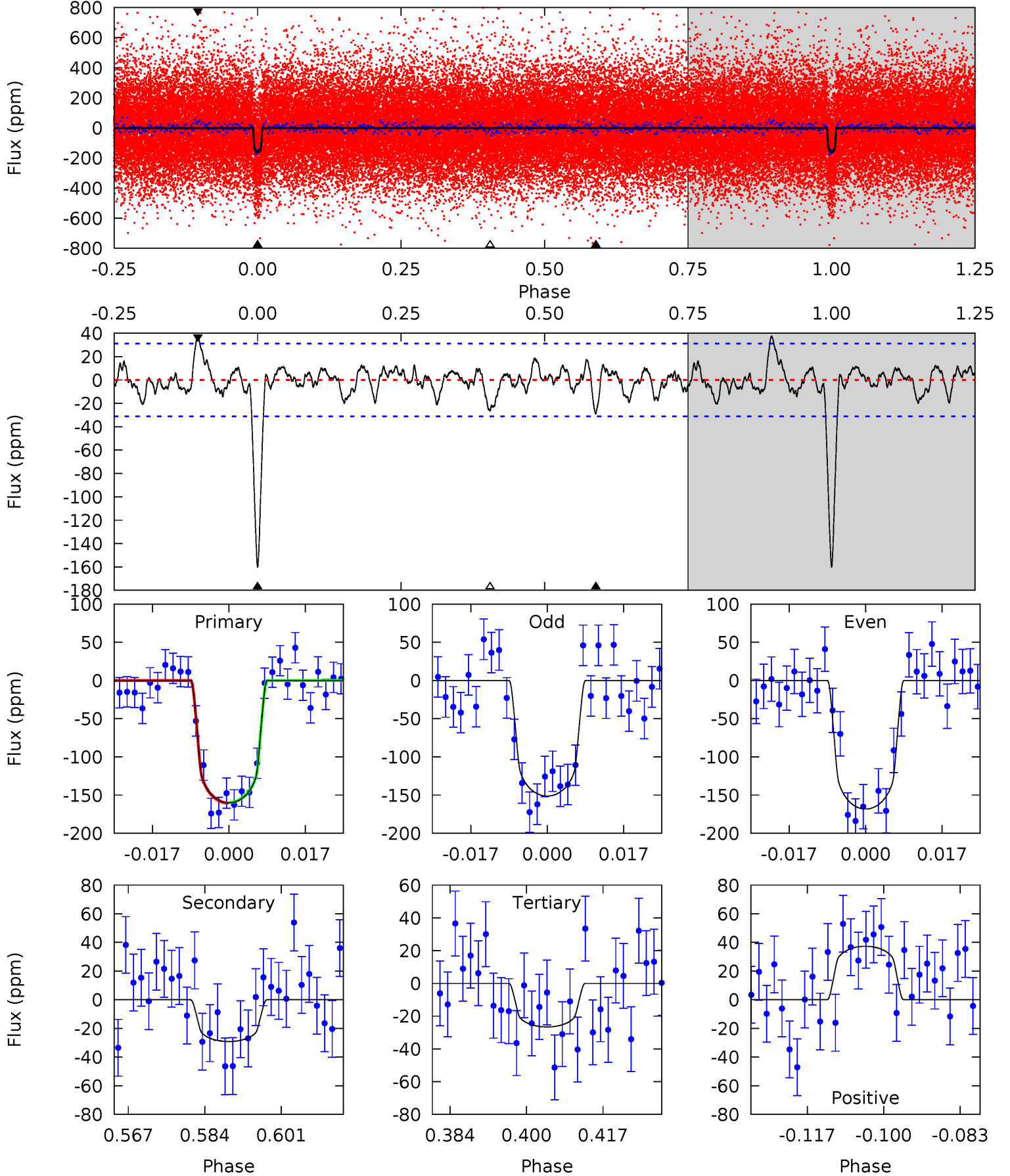
TCE 006062088-03 P= 11.329664 Days $T_0=133.975978$ (BKJD)



DV Model-Shift Uniqueness Test

006062088-03, P = 11.329818 Days, E = 122.634866 Days

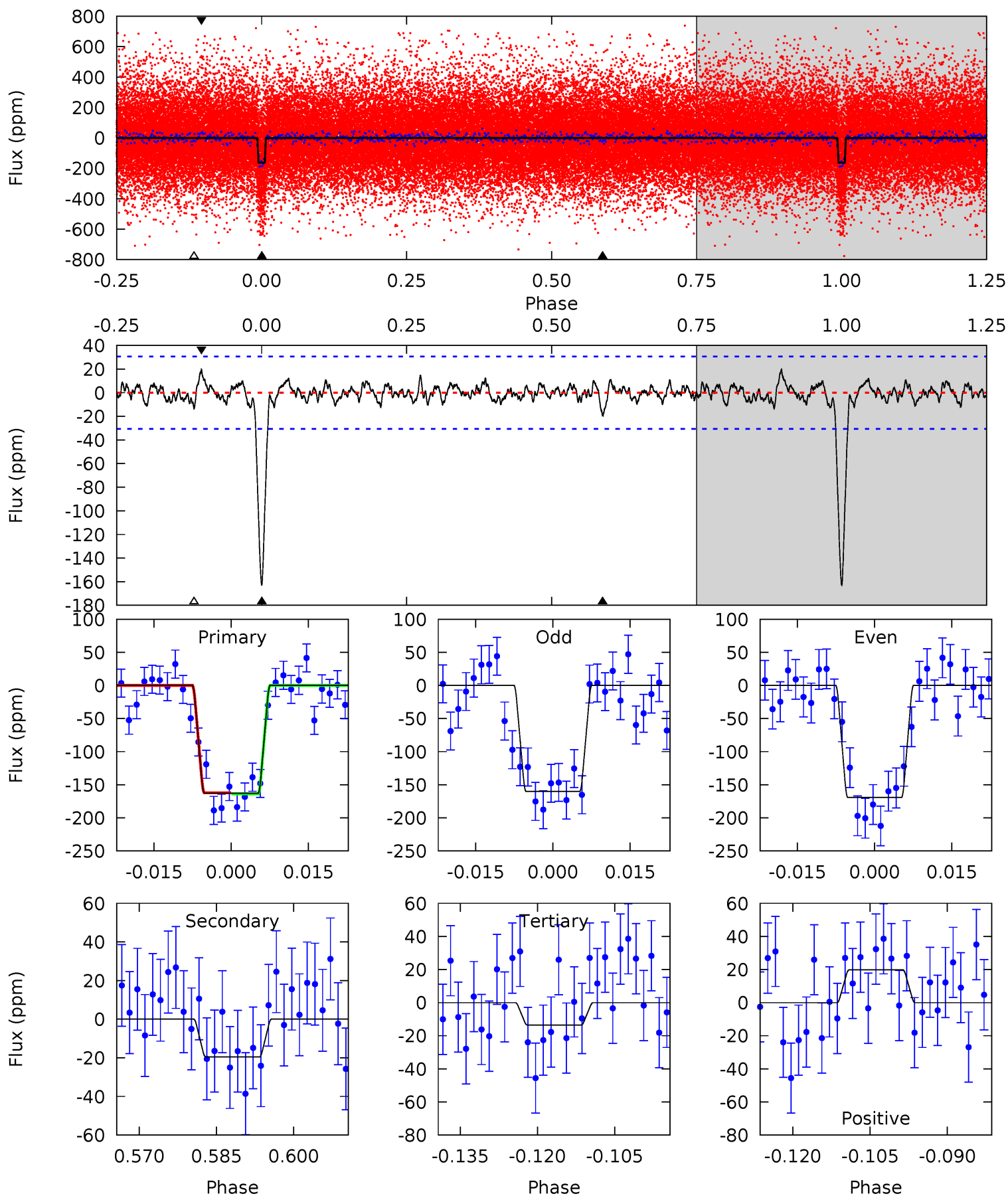
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.3	4.61	4.21	5.91	4.93	2.39	1.45	21.1	19.4	0.40	-1.29	1.34	0.98	0.19	0.08



Alt Model-Shift Uniqueness Test

006062088-03, P = 11.329664 Days, E = 122.646314 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.3	3.15	2.19	3.19	4.95	2.43	0.83	24.1	23.1	0.97	-0.03	0.74	0.93	0.11	0.13



Stellar Parameters For KIC 006062088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5821^{+105}_{-117}	$4.355^{+0.121}_{-0.110}$	$-0.020^{+0.150}_{-0.150}$	$1.085^{+0.160}_{-0.146}$	$0.972^{+0.074}_{-0.066}$	$1.072^{+0.523}_{-0.353}$
	+2%/-2%	+3%/-3%	+750%/-750%	+15%/-13%	+8%/-7%	+49%/-33%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 006062088-03 / KOI 0658.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-29 ± 6	$1.59^{+0.50}_{-0.46}$	1191^{+55}_{-54}	4007^{+538}_{-391}	62^{+67}_{-29}
Alt.	-20 ± 6	$1.55^{+0.45}_{-0.47}$	1193^{+54}_{-51}	3754^{+572}_{-361}	42^{+52}_{-19}

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

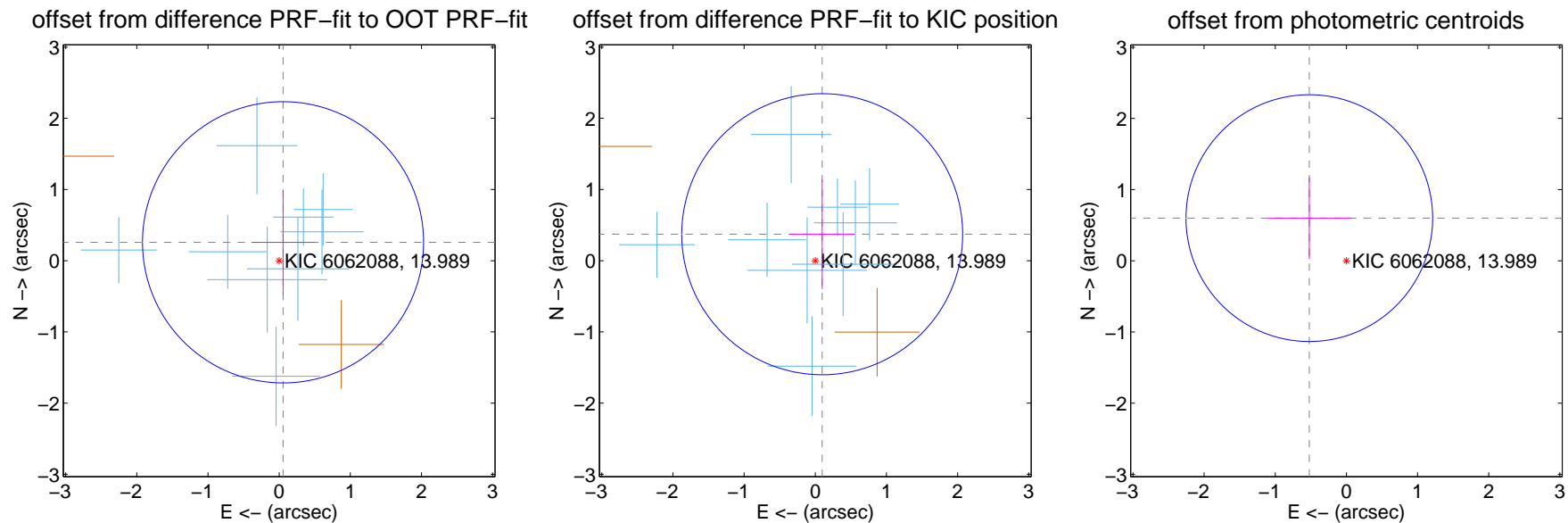
DV Centroid Data

Supplemental centroid analysis for 006062088-03. Kepler magnitude: 13.99. Transit SNR 15.49

There are 9 quarters with good PRF difference image offsets

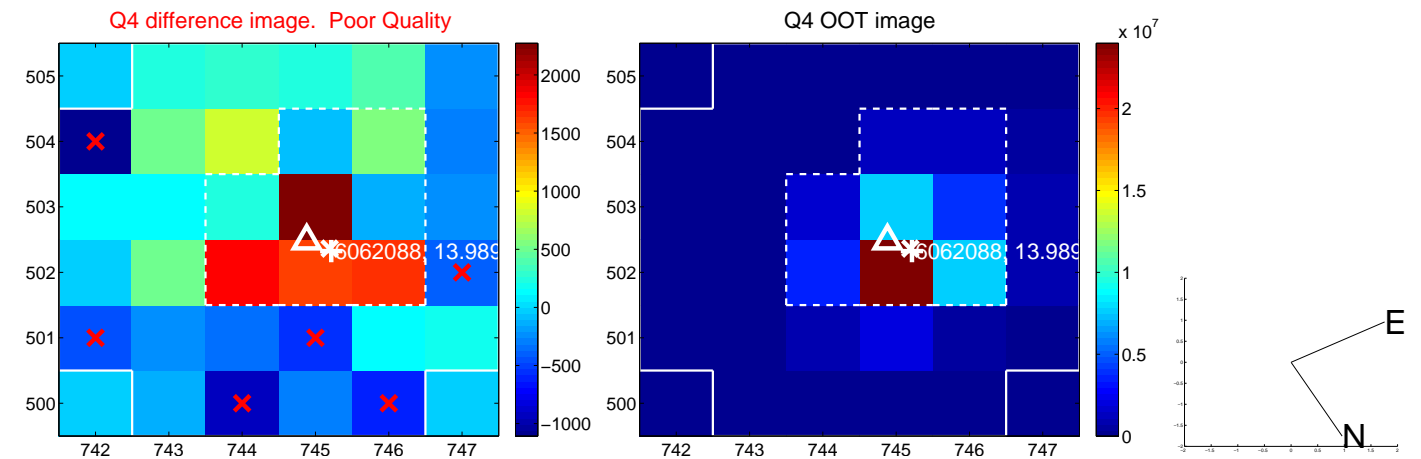
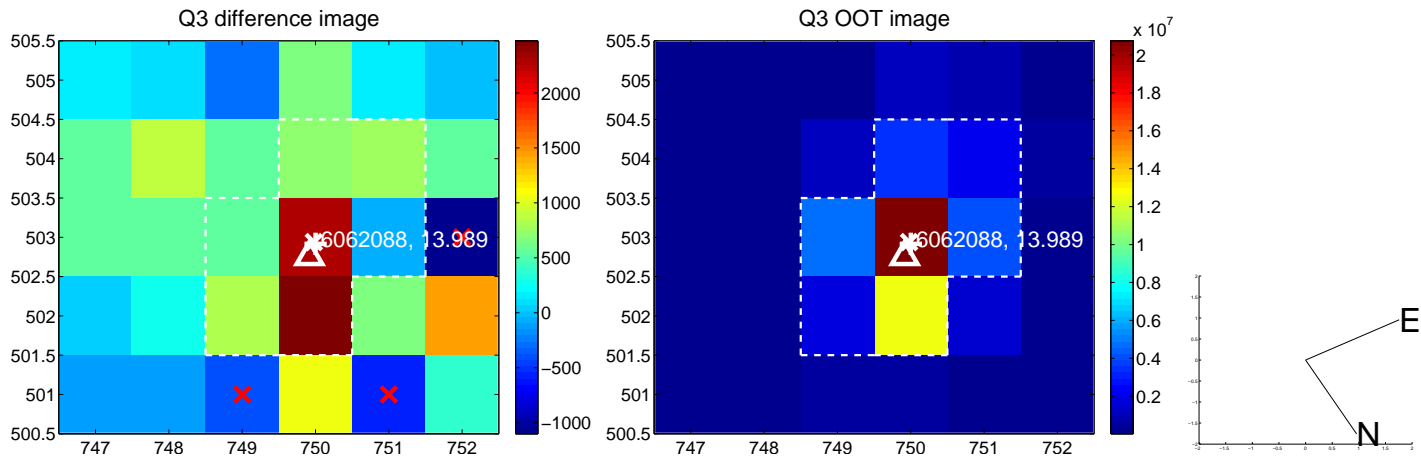
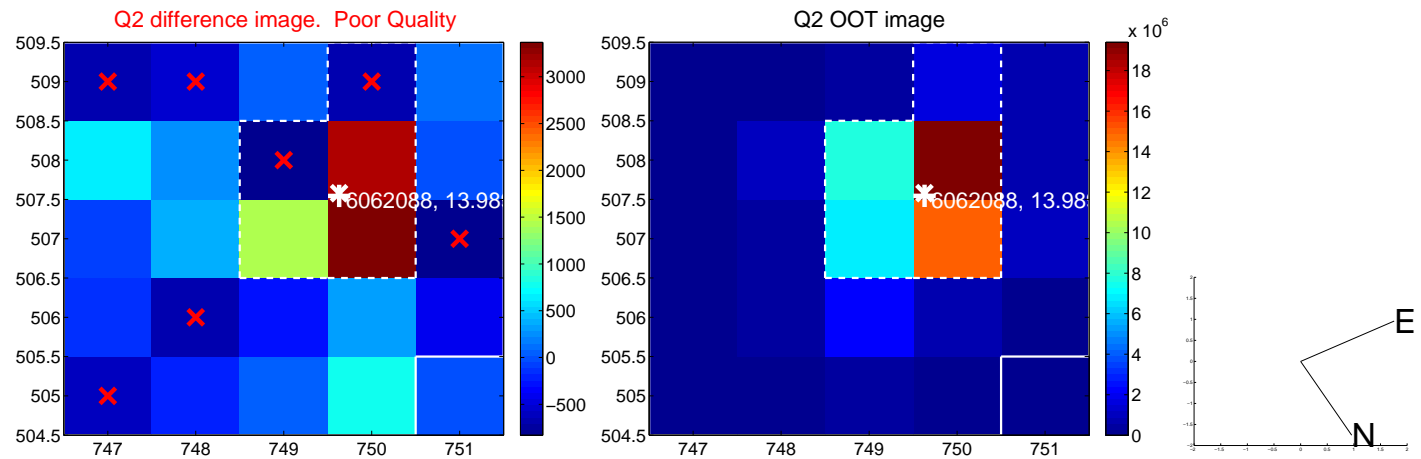
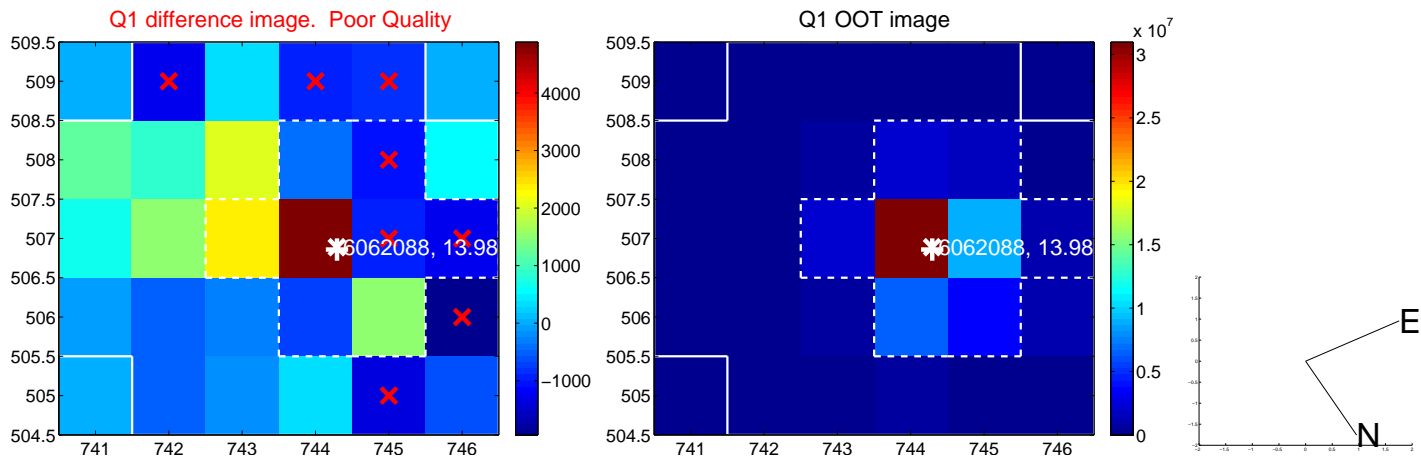
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.264 ± 0.658	0.40	-0.055 ± 0.446	0.258 ± 0.737
PRF-fit source offset from KIC position	0.384 ± 0.658	0.58	-0.097 ± 0.451	0.372 ± 0.769
photometric centroid source offset	0.79 ± 0.58	1.37	0.52 ± 0.58	0.60 ± 0.57

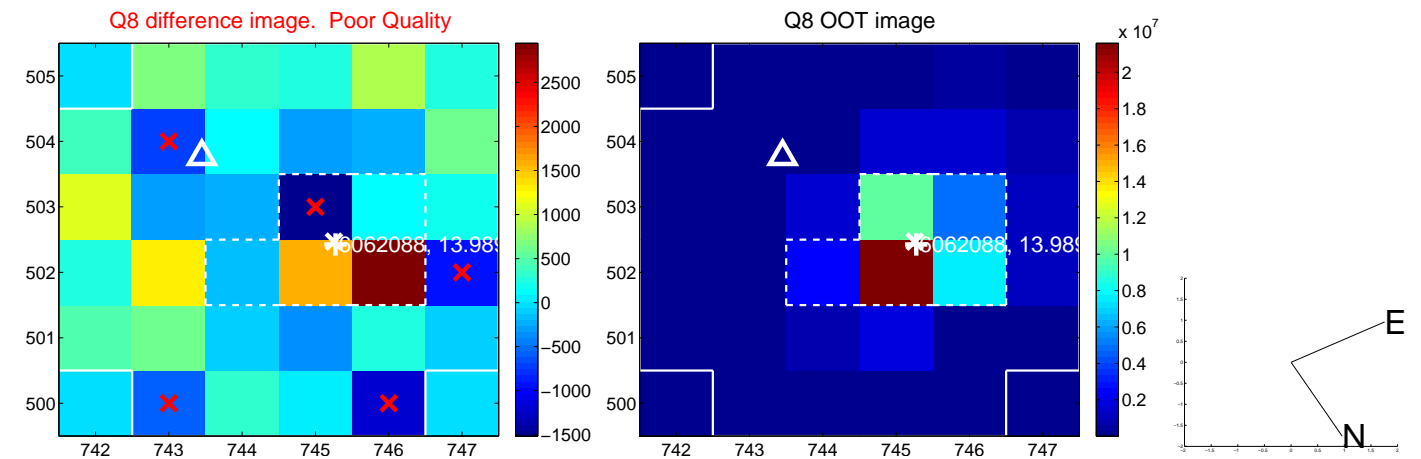
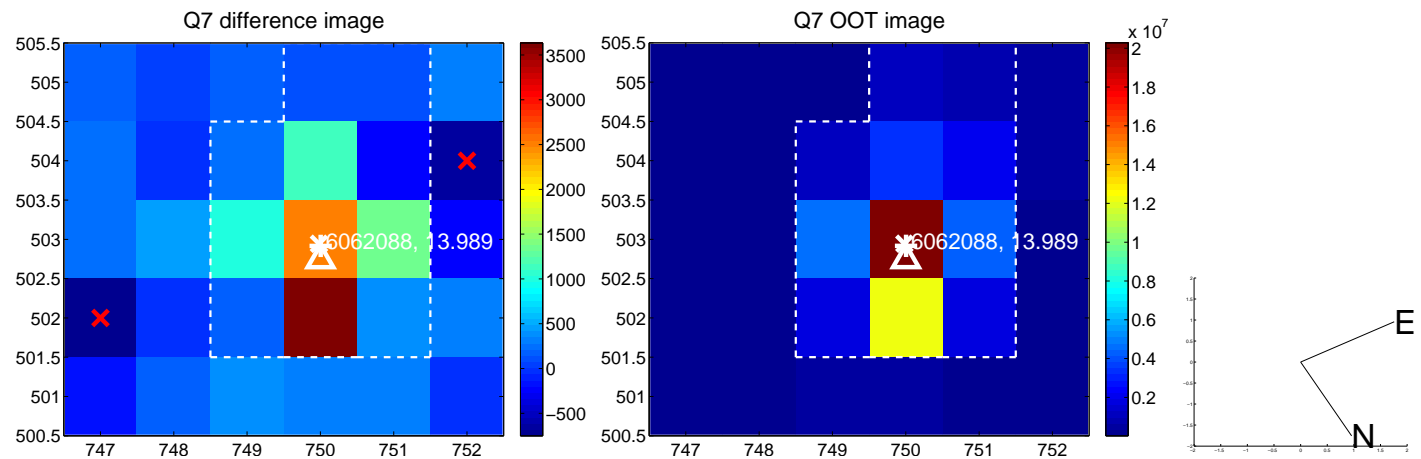
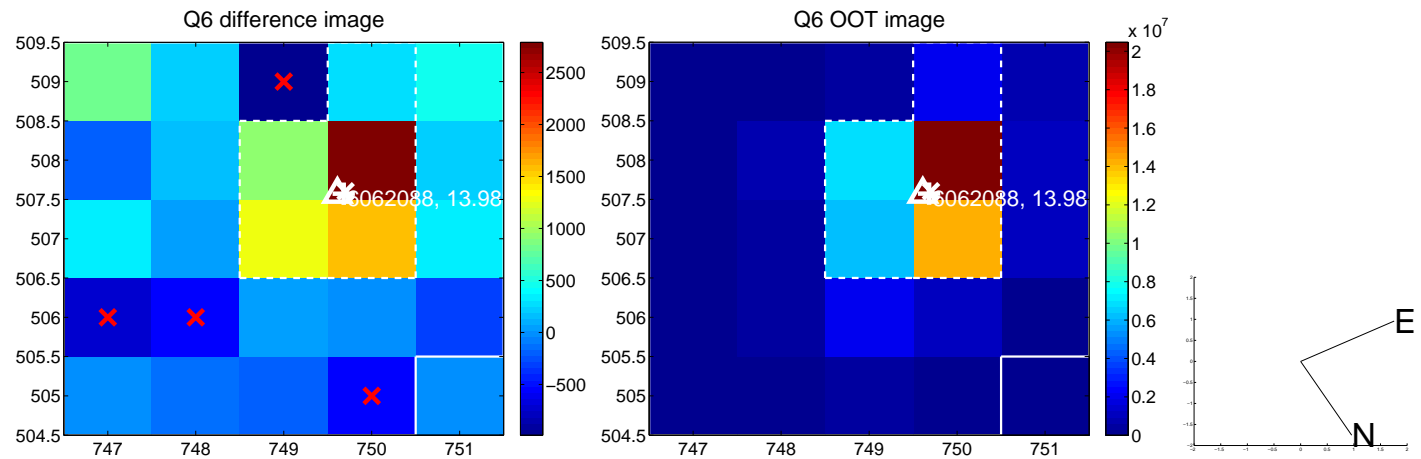
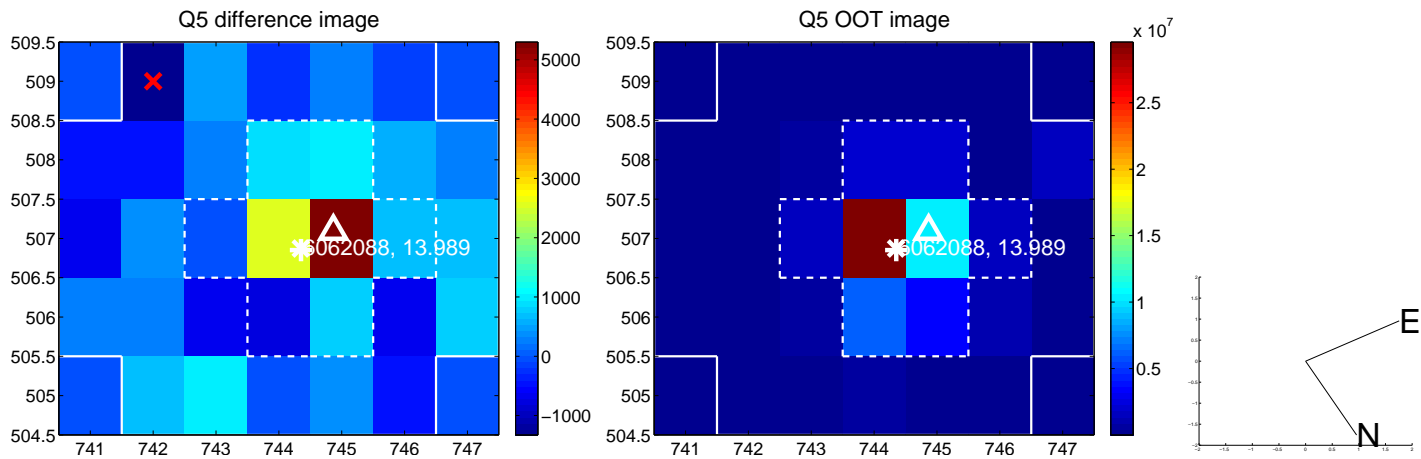


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

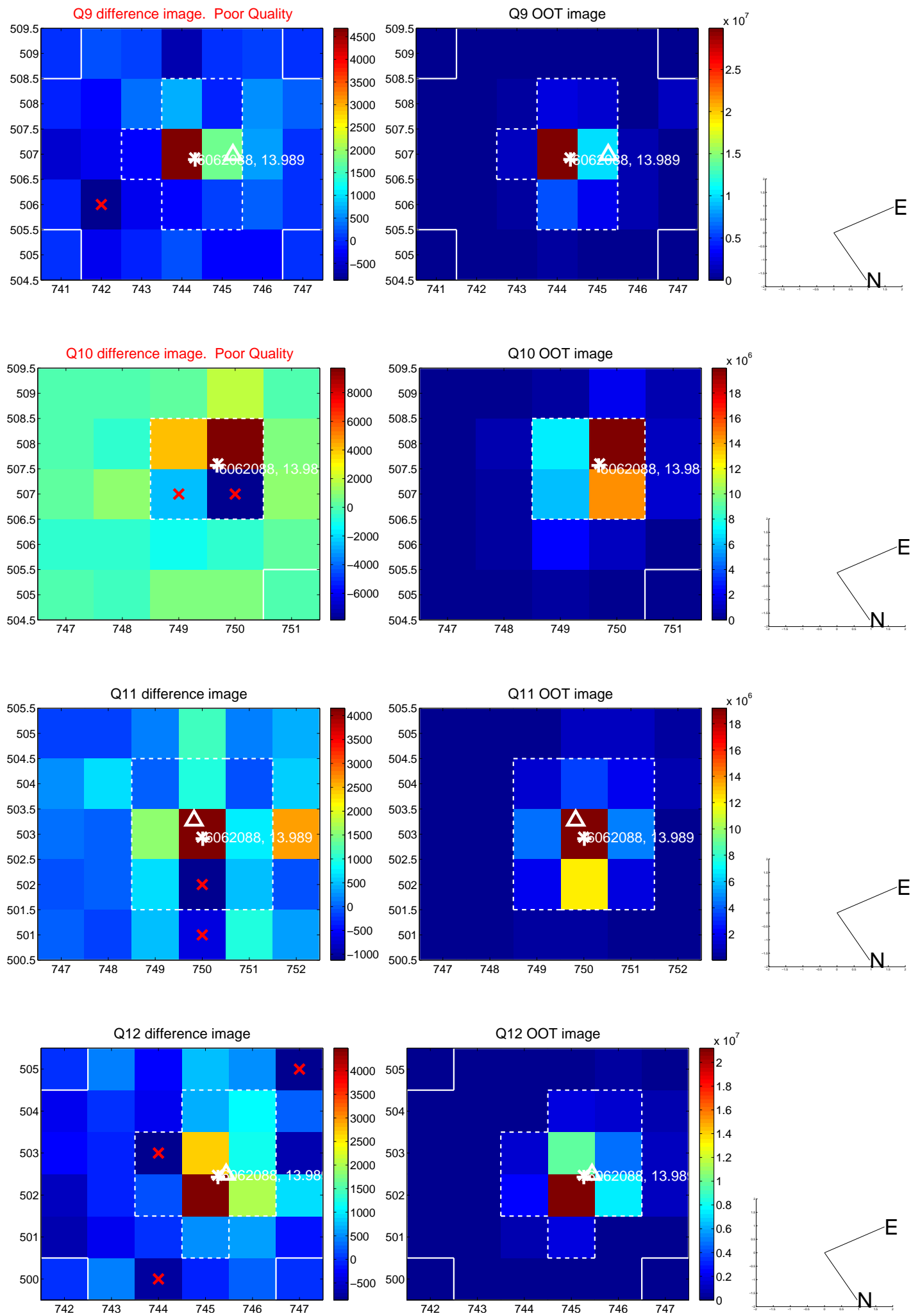
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



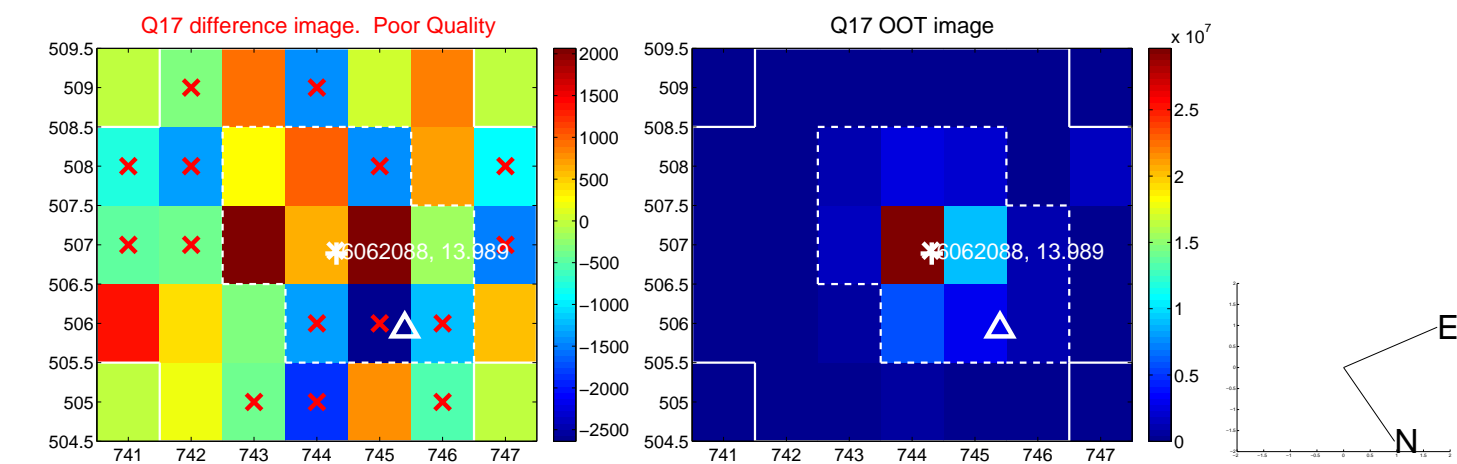
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



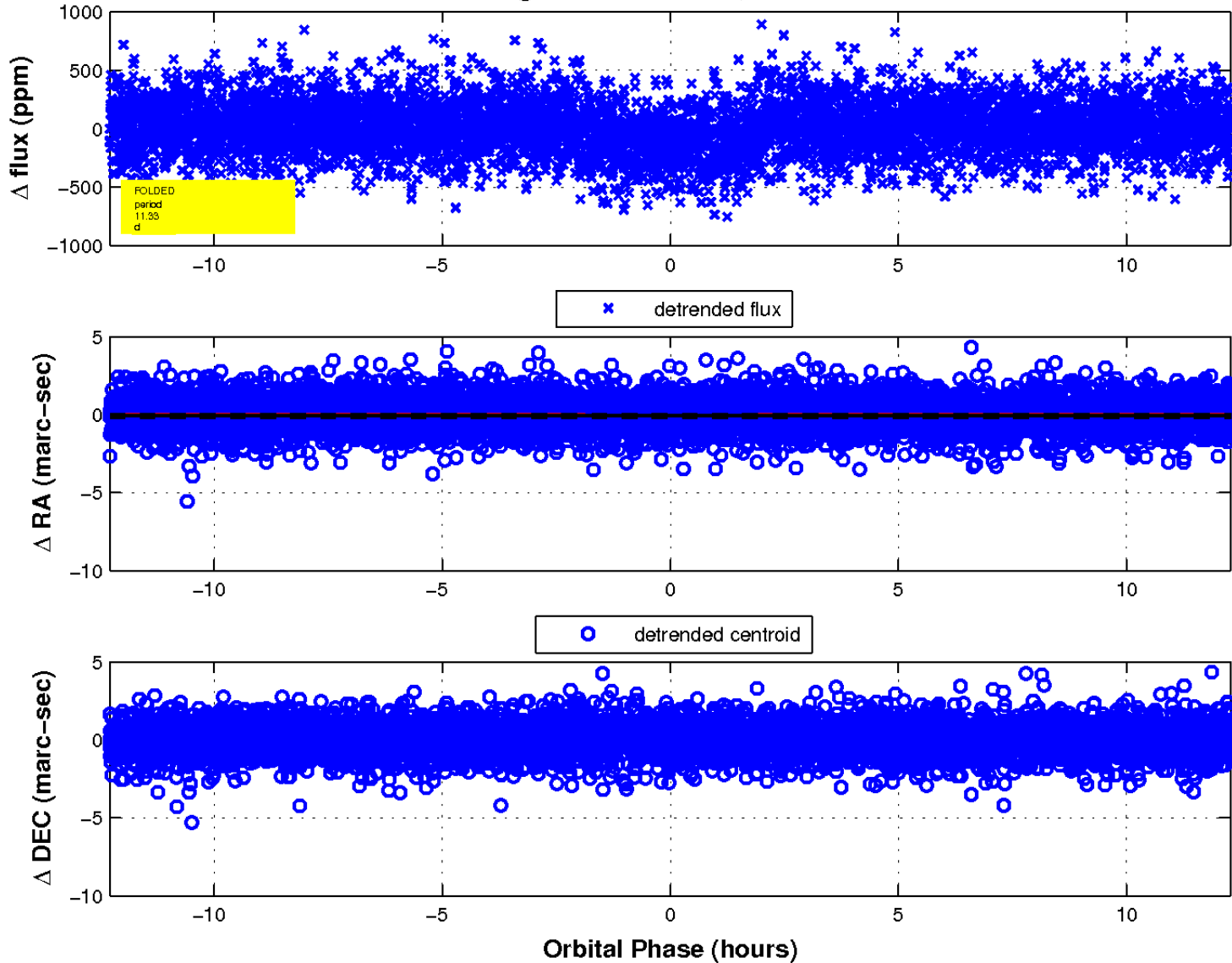
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

