

KIC 005792900

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})
005792900-01	OBS	No	2.980594	131.514399	33.8	9.000	11.9	-1.0	3.06	8529	1.81	16996.91
005792900-02	OBS	No	5.960772	136.156223	27.2	15.000	10.3	-1.0	3.06	8529	1.62	6745.86
005792900-03	OBS	No	5.961283	133.077567	17.8	15.000	8.2	-1.0	3.06	8529	1.31	6745.09

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005792900-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_SATURATED
005792900-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
005792900-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—NO_FITS—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.

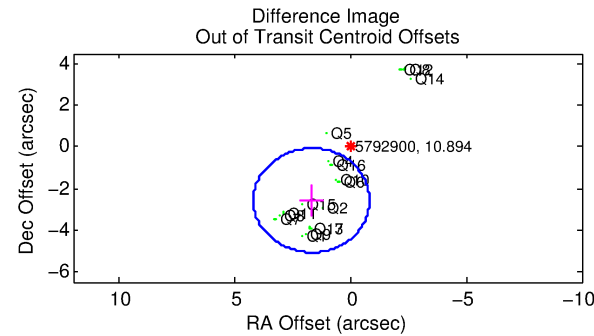
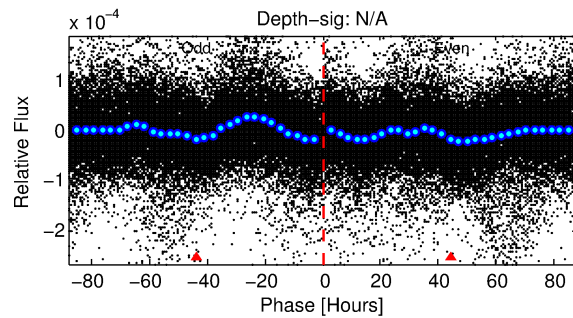
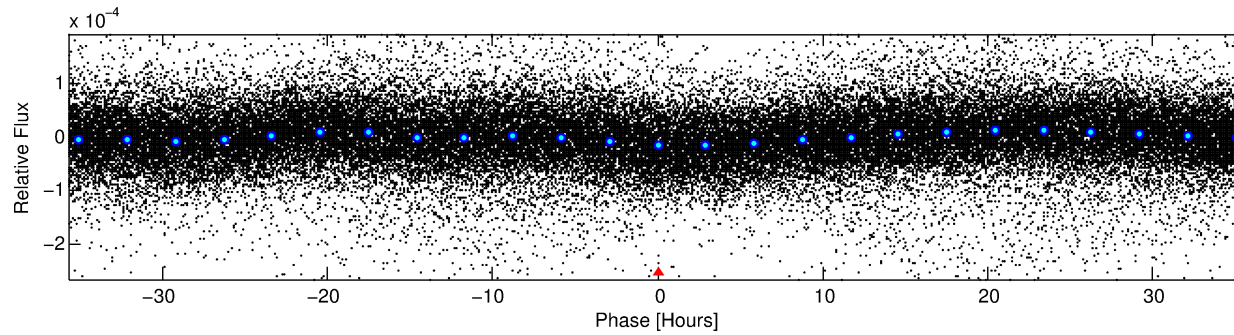
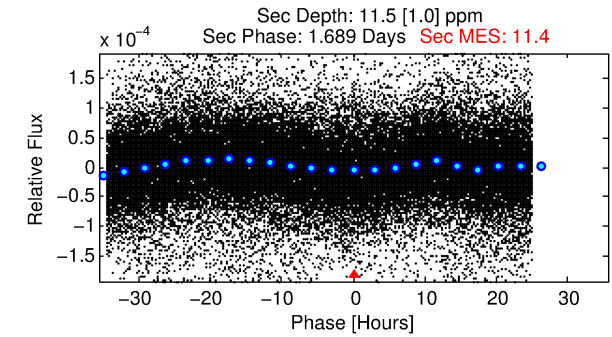
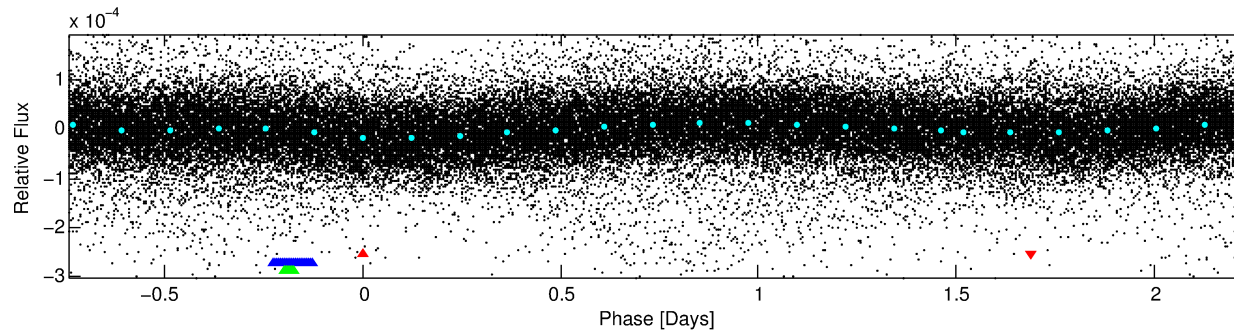
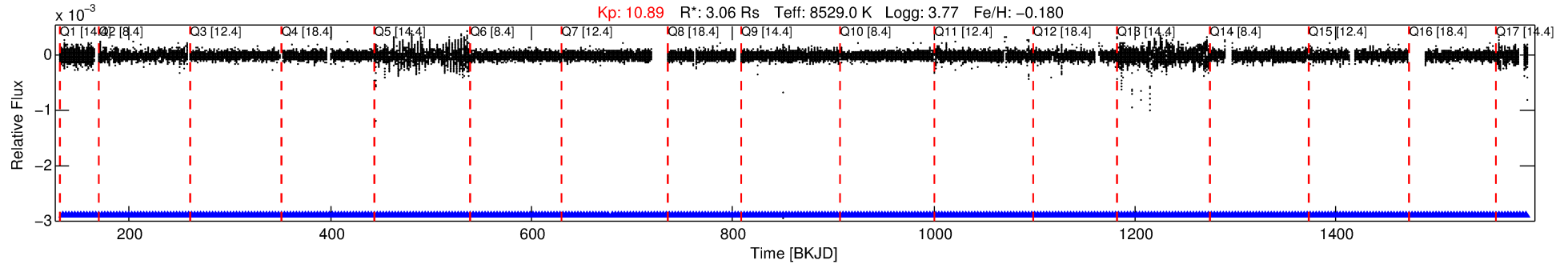
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005792900-01

No Significant Match Found

DV One-Page Summary

KIC: 5792900 Candidate: 1 of 3 Period: 2.981 d



TPS TCE Results:

Period = 2.98059 d
Epoch = 131.5144 BKJD

DV fit results are unavailable

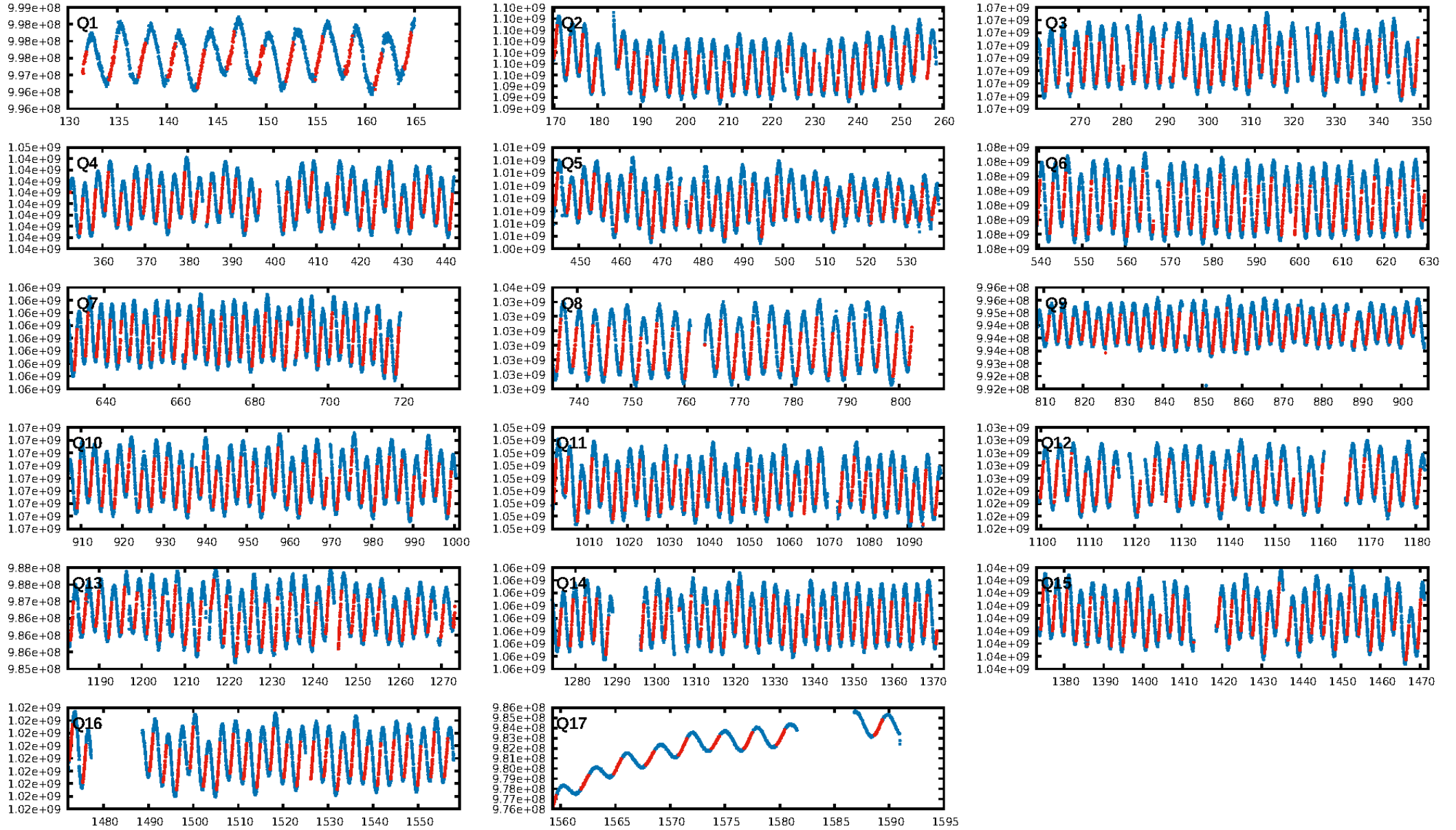
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [4.09σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [439/439]
GhostDiagnostic-chr: -1.657
Centroid-sig: 1.4%
Centroid-so: 0.209 arcsec [1.26σ]
OotOffset-rm: 3.082 arcsec [3.69σ]
KicOffset-rm: 3.751 arcsec [5.05σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.47 [8/17]
DiffImageOverlap-fno: 0.00 [0/17]

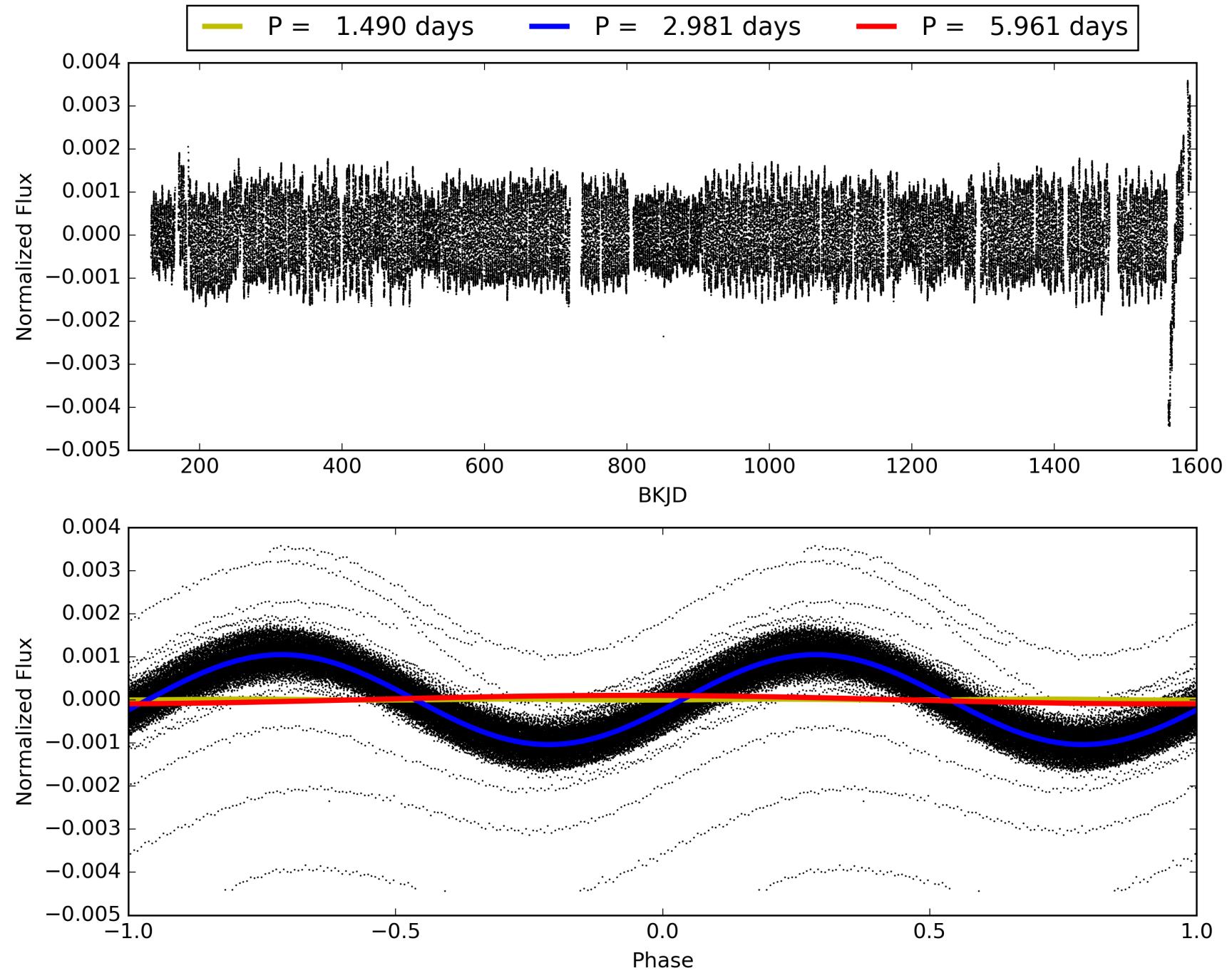
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 21:22:24 Z

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

TCE 005792900-01, PDC Light Curves

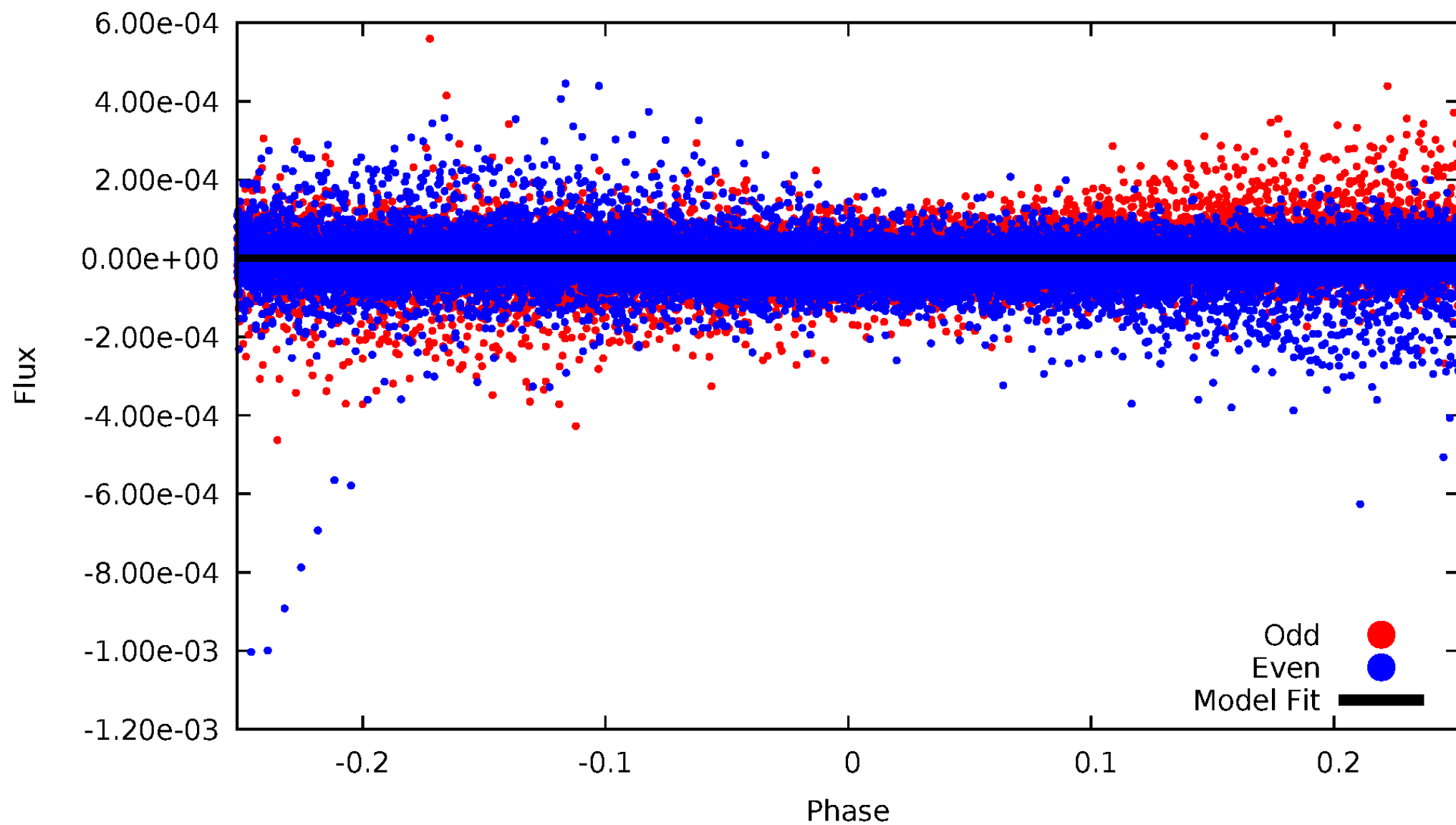


TCE 005792900-01



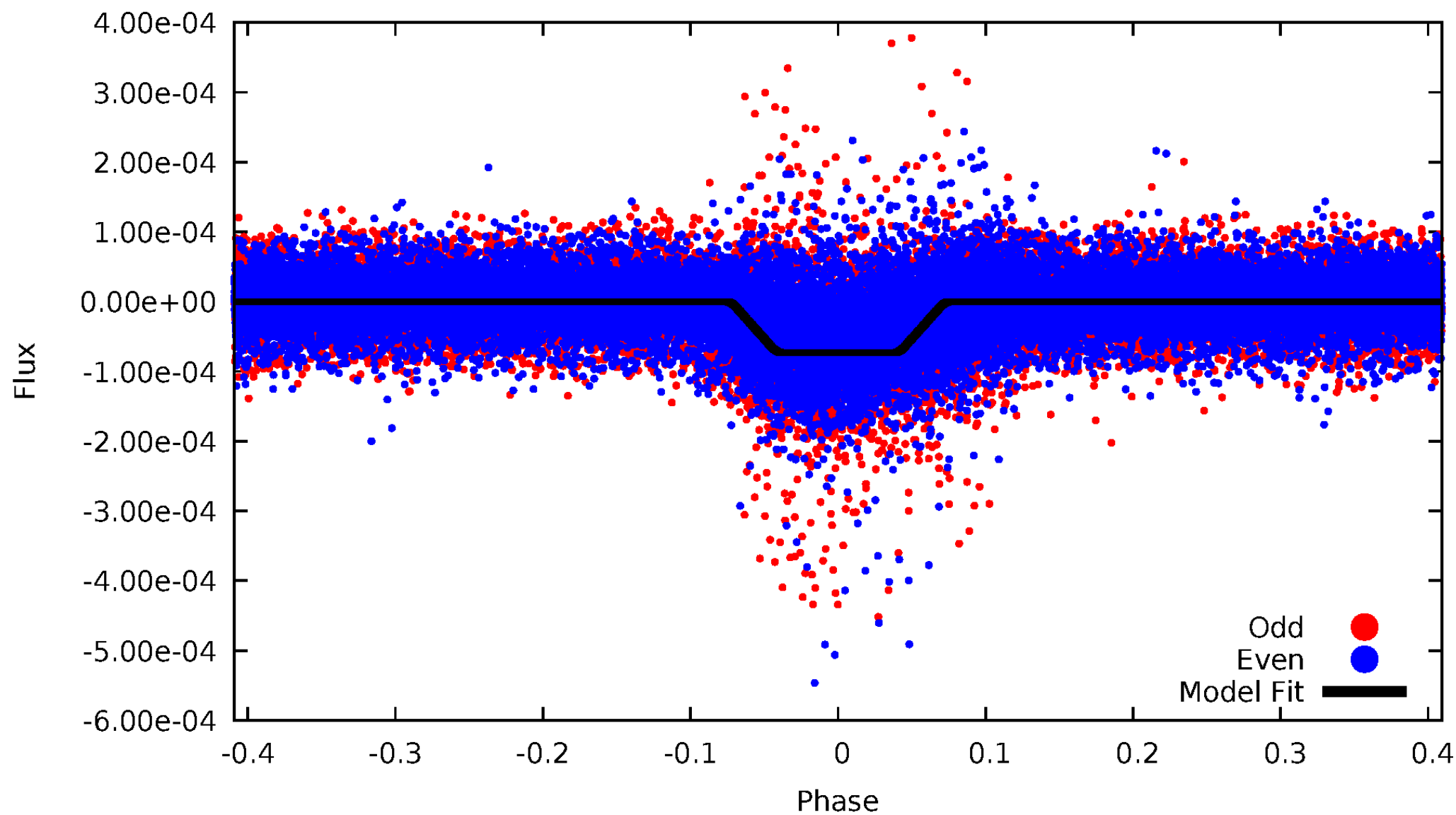
DV Odd/Even

TCE 005792900-01

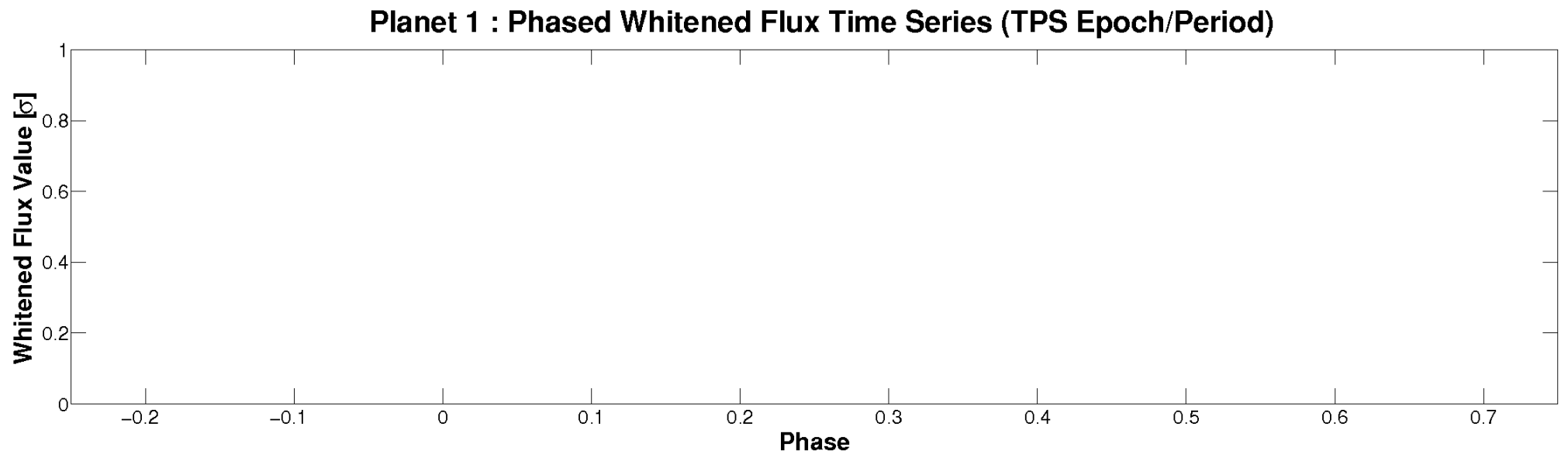
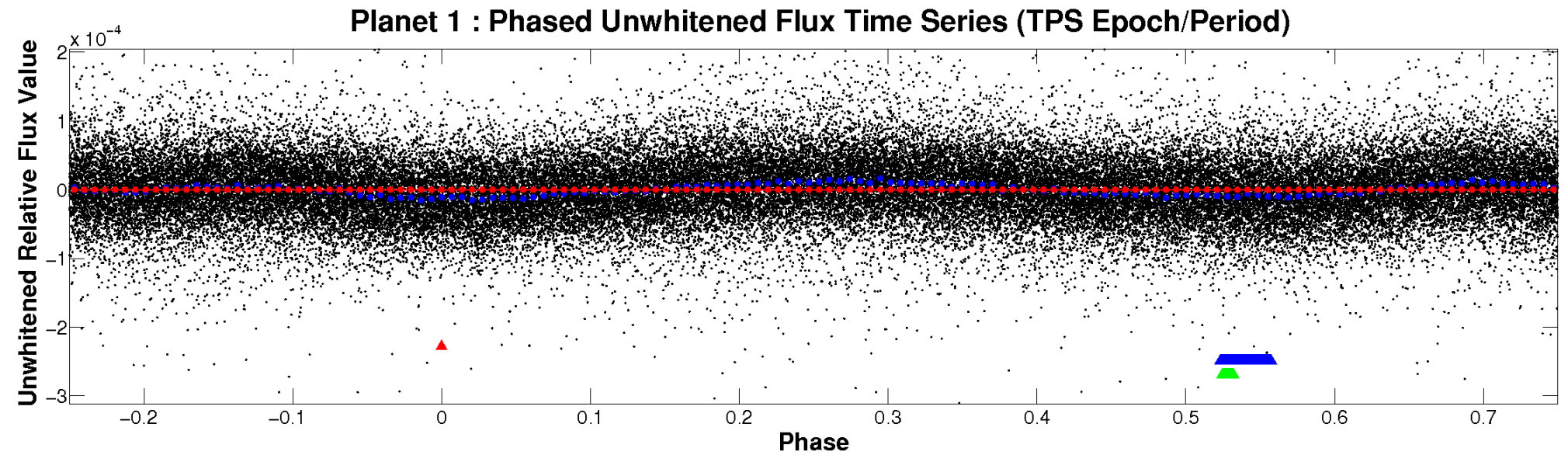


ALT Odd/Even

TCE 005792900-01

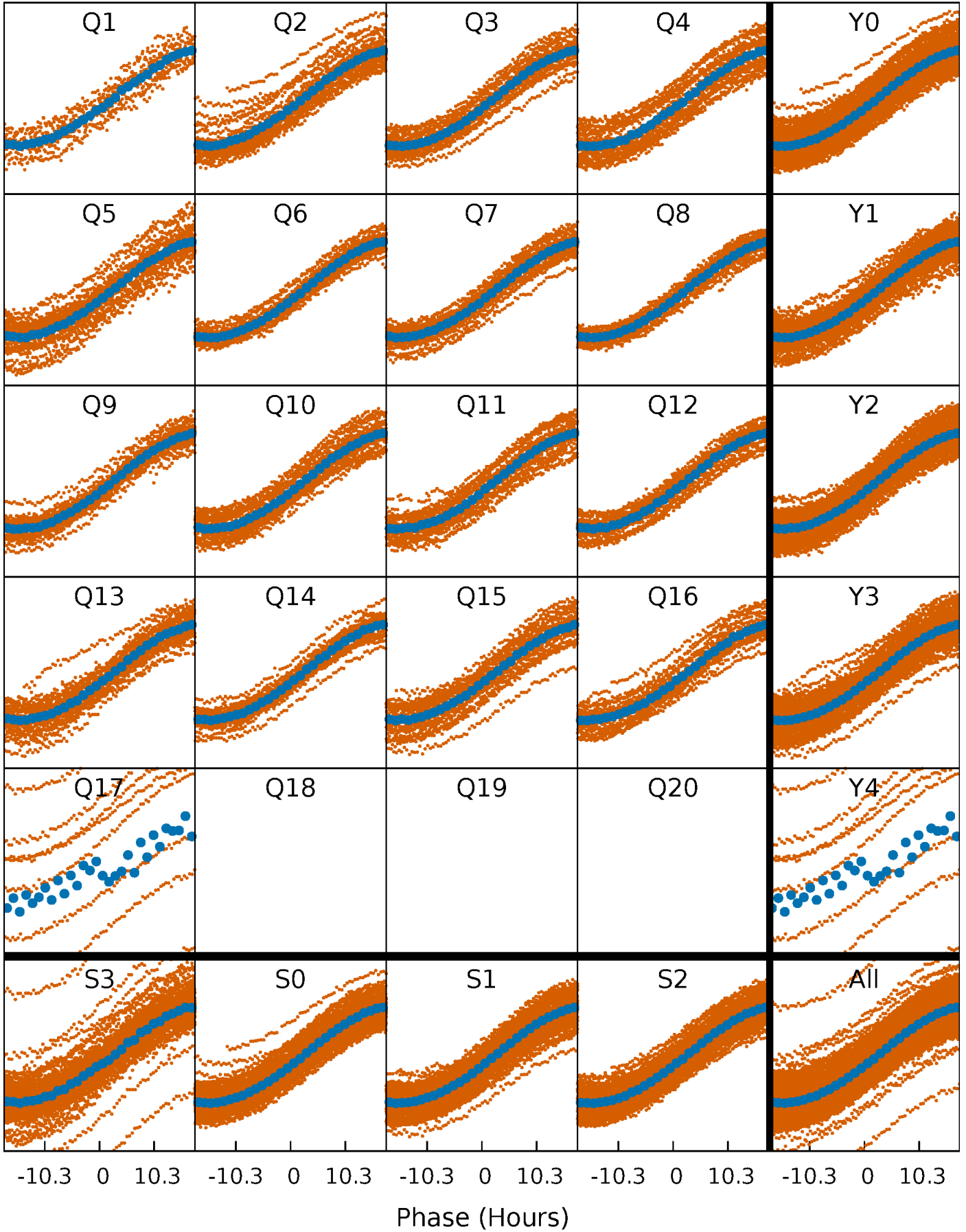


Non-Whitened Vs. Whitened Light Curve



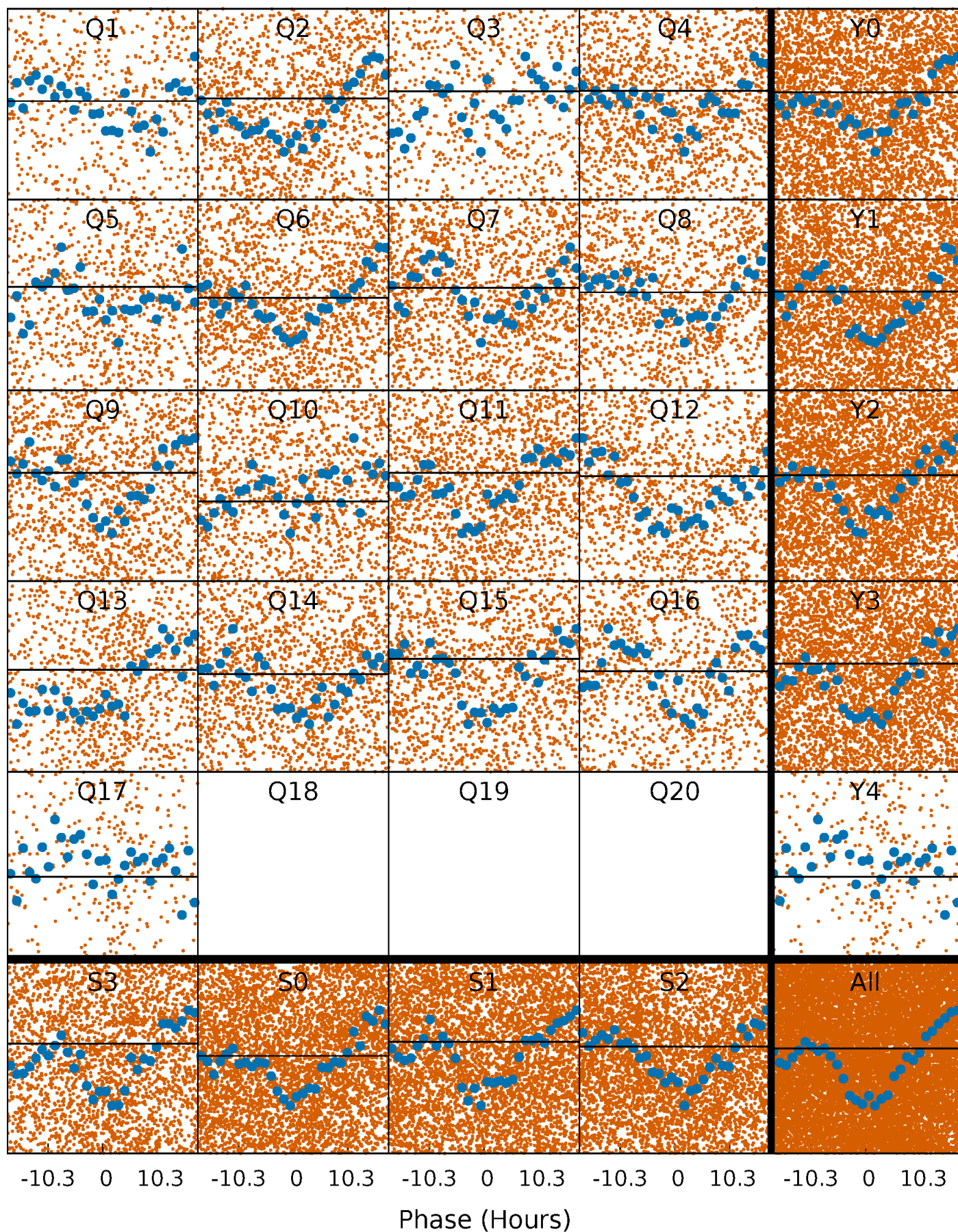
PDC Quarter-Phased Transit Curves

TCE 005792900-01 P= 2.980594 Days $T_0=131.514399$ (BKJD)



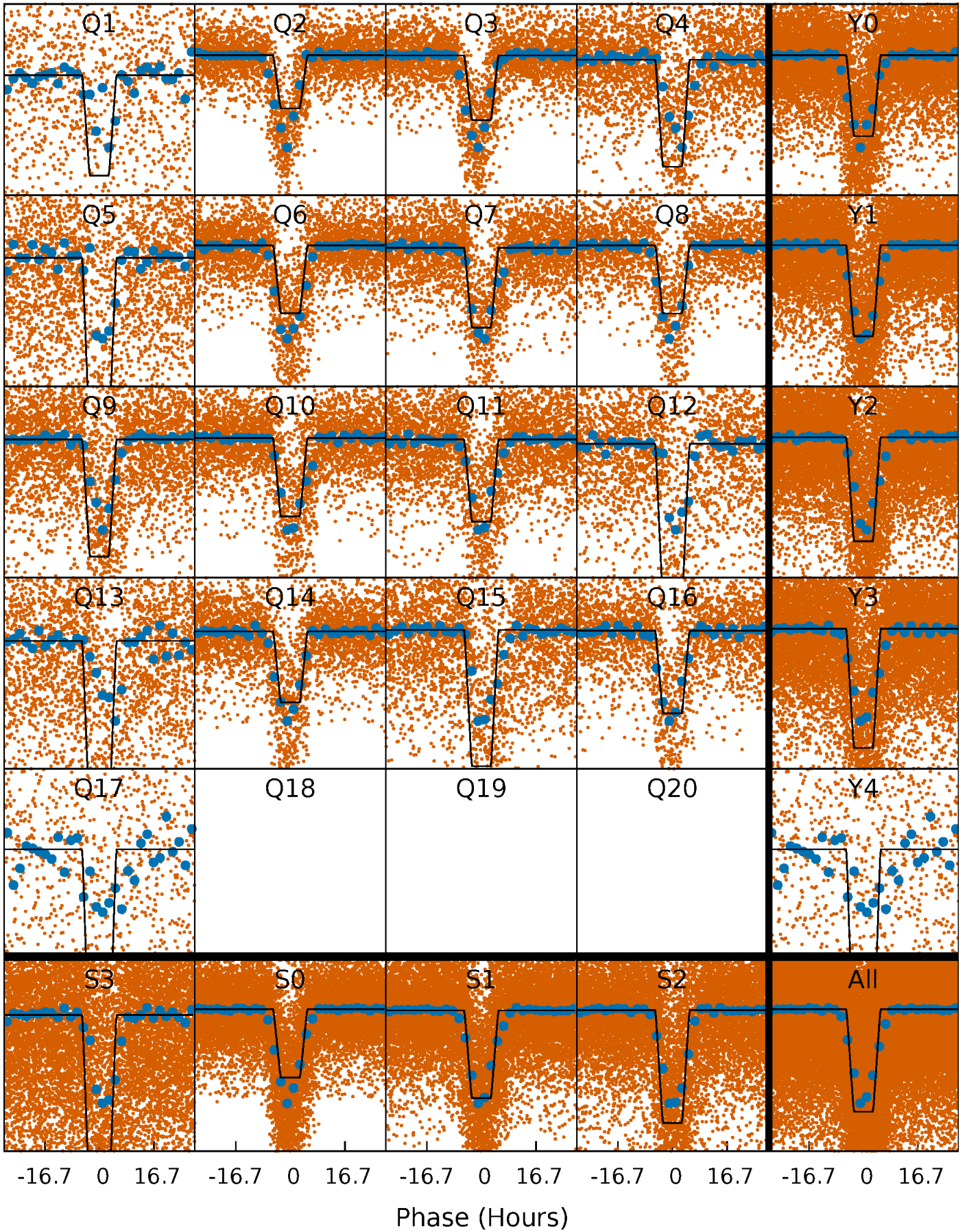
DV Quarter-Phased Transit Curves

TCE 005792900-01 P= 2.980594 Days $T_0=131.514399$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

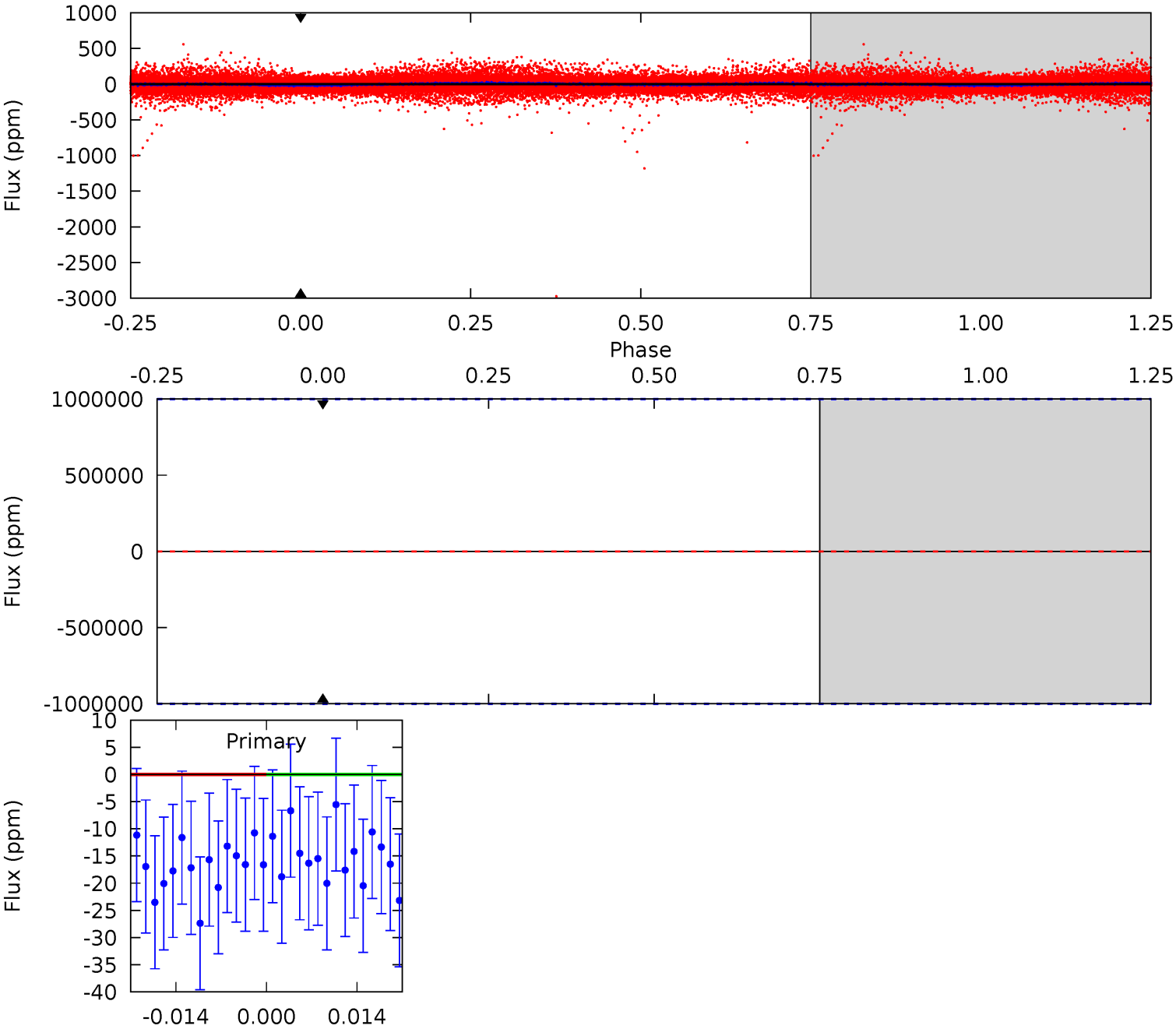
TCE 005792900-01 P= 2.980594 Days $T_0=134.410199$ (BKJD)



DV Model-Shift Uniqueness Test

005792900-01, P = 2.980594 Days, E = 128.533805 Days

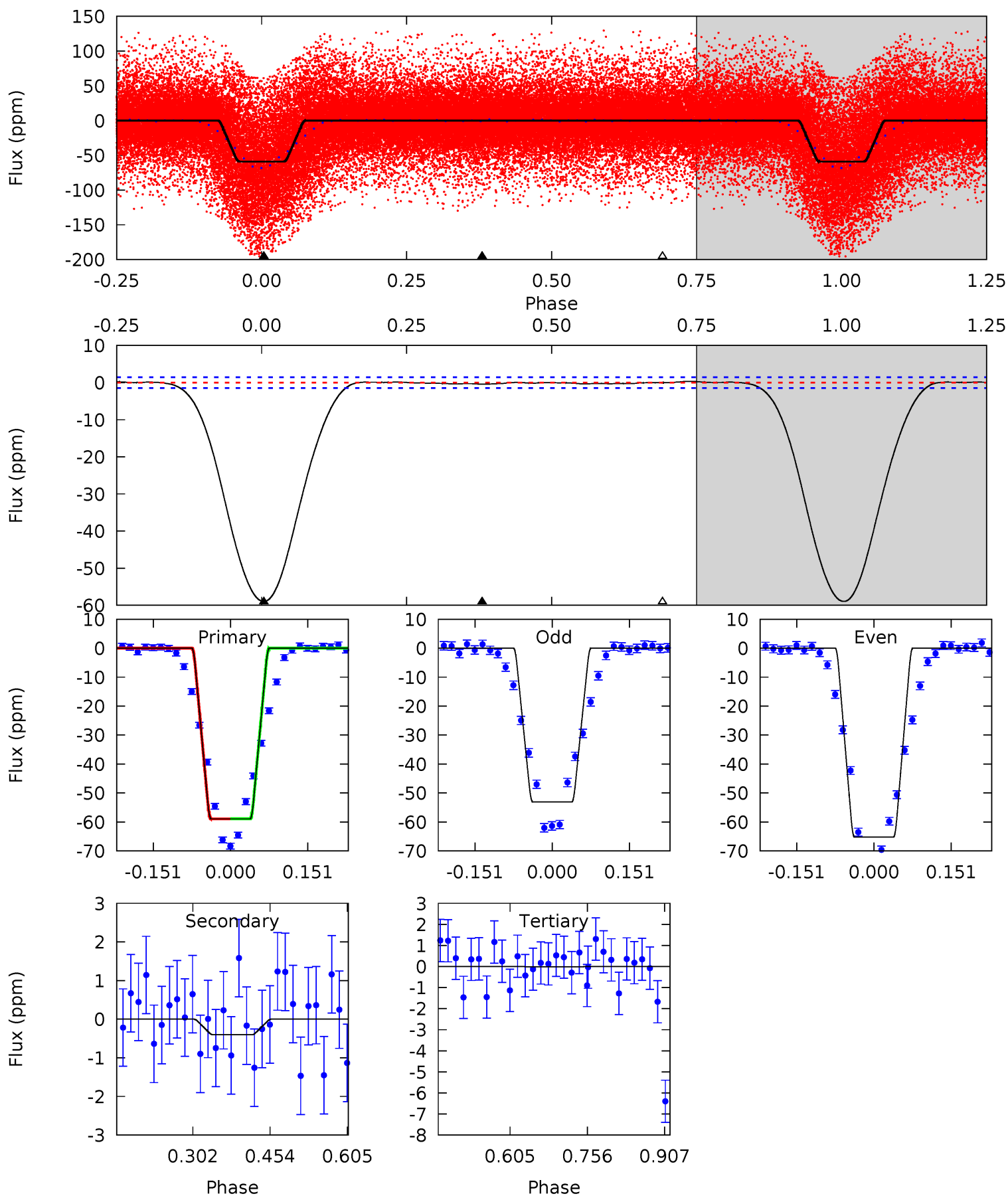
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005792900-01, P = 2.980594 Days, E = 131.429605 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
180.9	1.23	0.05	0	4.48	1.44	0.64	180.8	180.9	1.19	1.23	18.6	0.98	0.01	0.14



Stellar Parameters For KIC 005792900

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8529^{+462}_{-693}	$3.769^{+0.408}_{-0.128}$	$-0.180^{+0.250}_{-0.150}$	$3.065^{+0.730}_{-1.355}$	$2.017^{+0.384}_{-0.423}$	$0.099^{+0.334}_{-0.039}$
	+5%/-8%	+11%/-3%	+139%/-83%	+24%/-44%	+19%/-21%	+338%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005792900-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$20.32^{+25.00}_{-14.08}$	3912^{+467}_{-489}	-3768^{+67064}_{-63521}	$-0.083^{+625.382}_{-654.837}$
Alt.	-0 ± 0	$22.55^{+25.36}_{-15.69}$	3937^{+387}_{-484}	-3544^{+278}_{-217}	$0.001^{+0.010}_{-0.001}$

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

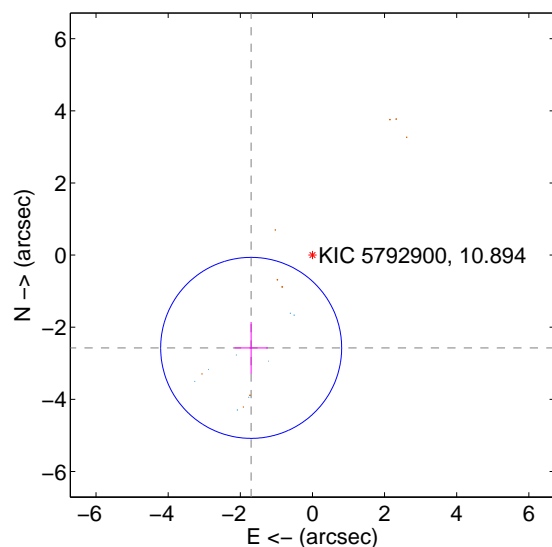
Supplemental centroid analysis for 005792900-01. **Kepler magnitude: 10.89.** Transit SNR -1.00

There are 8 quarters with good PRF difference image offsets

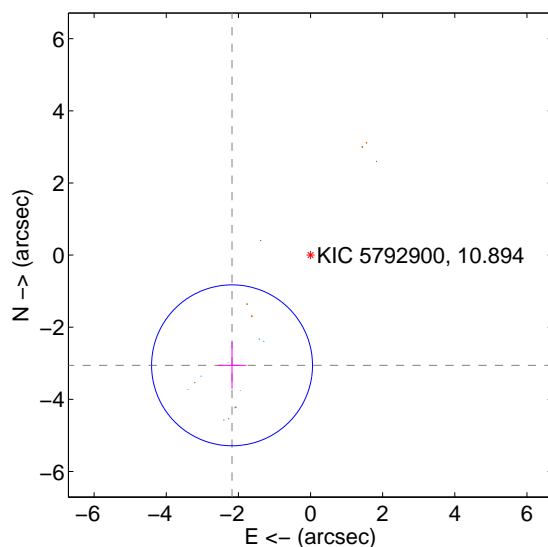
The direct PRF centroid is offset from the target star catalog position by about 0.47 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.082 ± 0.836	3.69	1.699 ± 0.465	-2.572 ± 0.715
PRF-fit source offset from KIC position	3.751 ± 0.744	5.05	2.176 ± 0.393	-3.056 ± 0.651
photometric centroid source offset	0.21 ± 0.17	1.26	0.21 ± 0.17	-0.01 ± 0.16

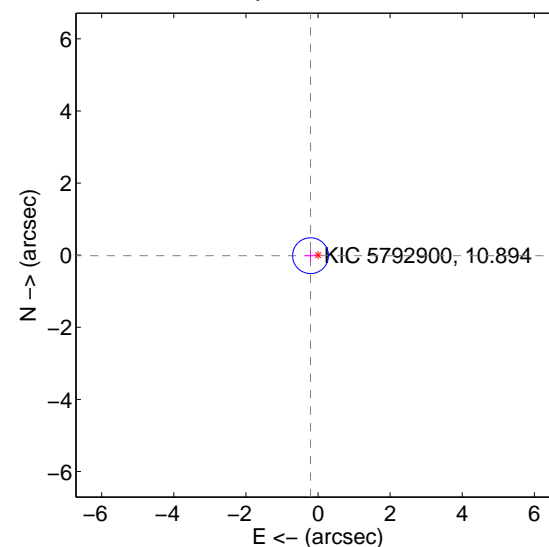
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

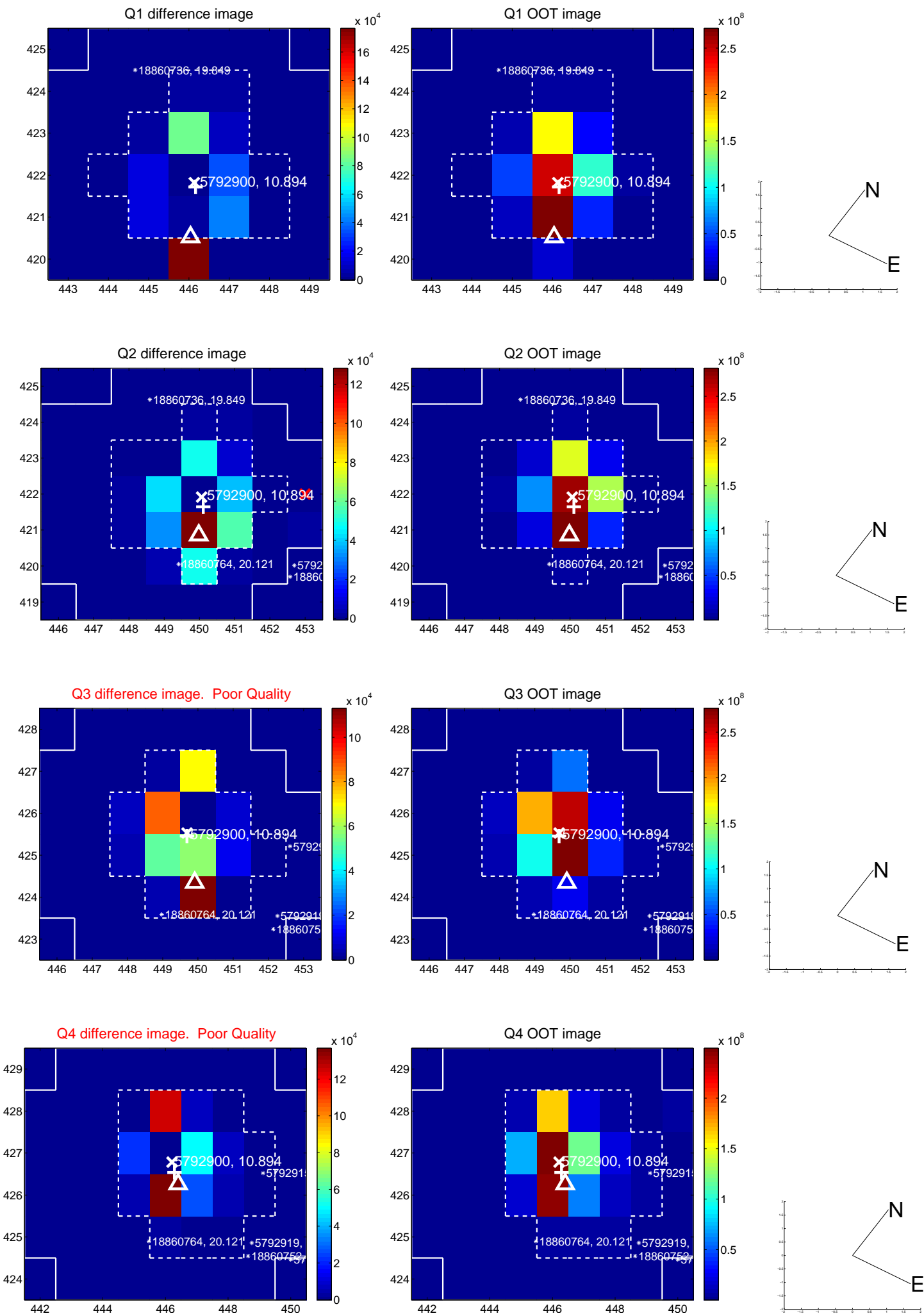


offset from photometric centroids

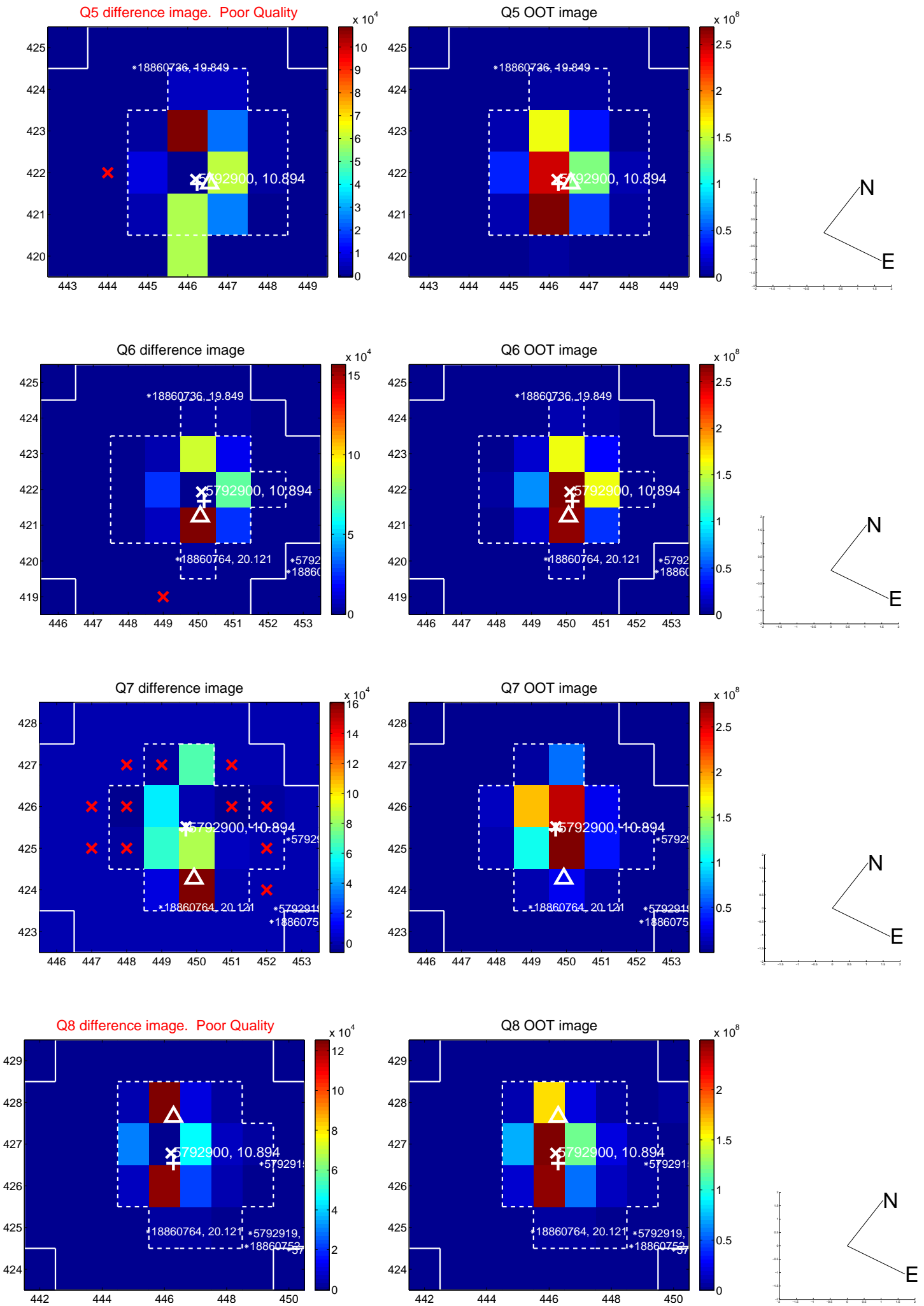


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

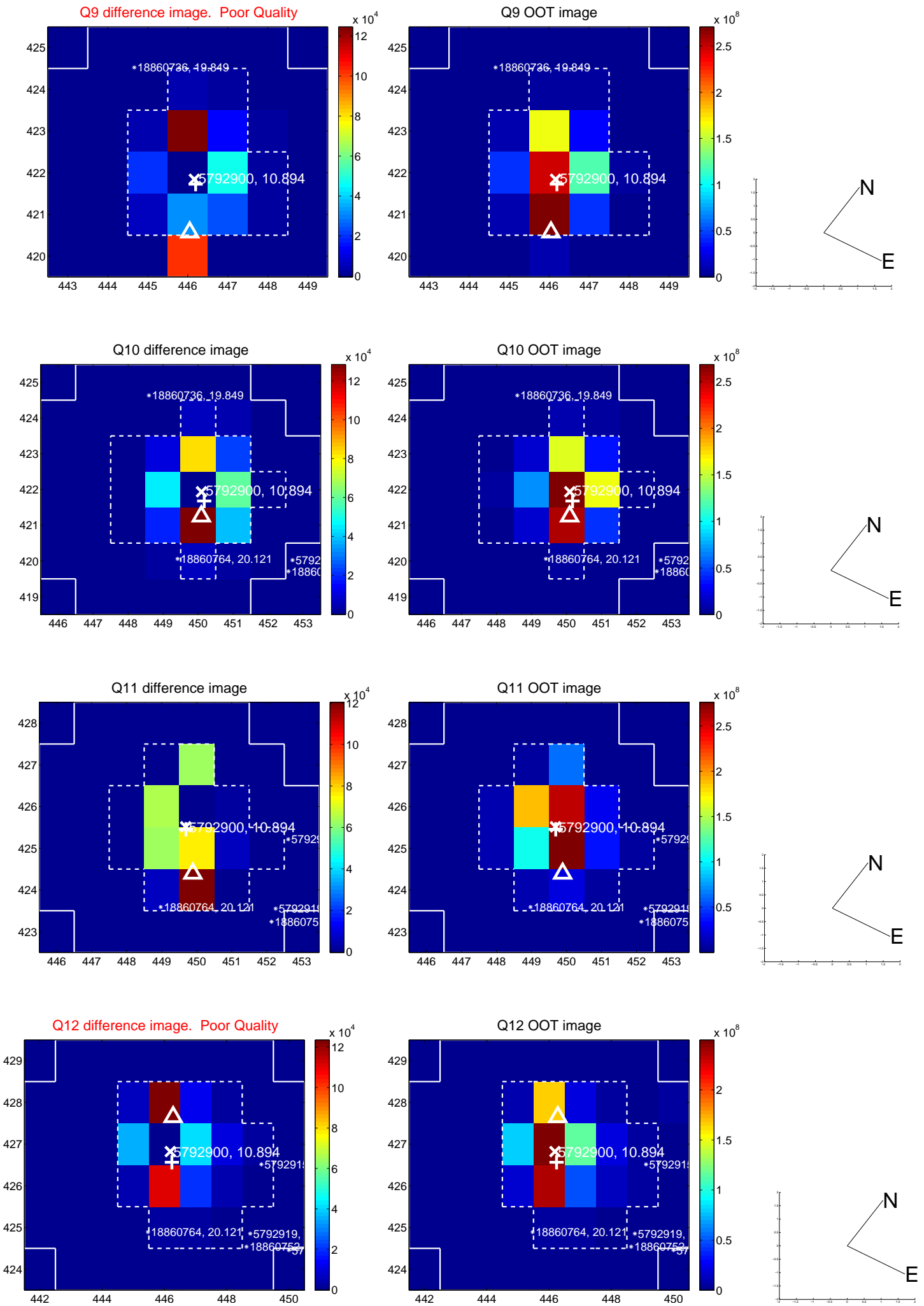
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



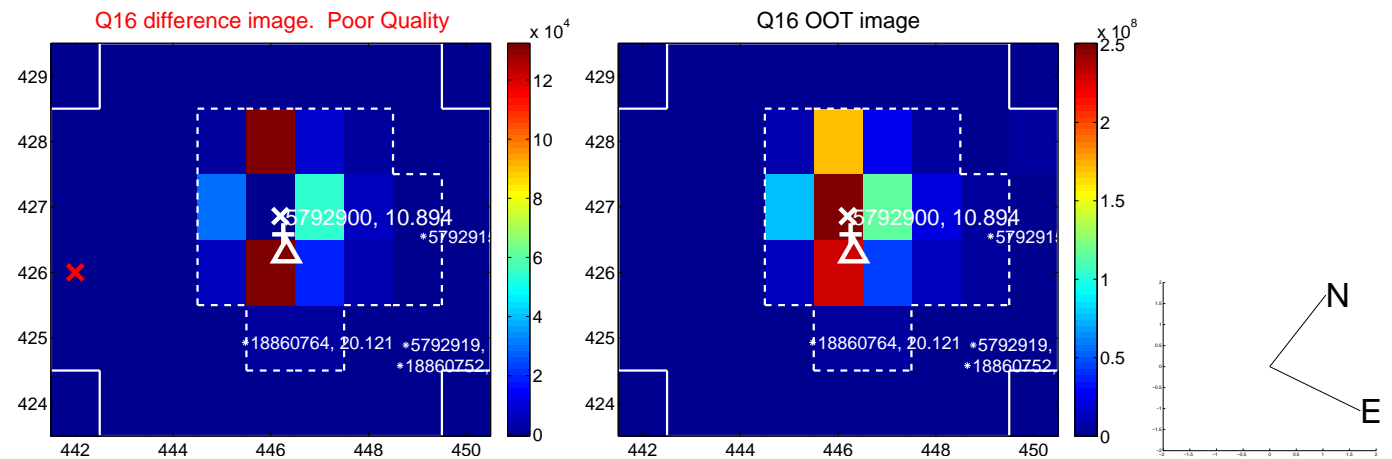
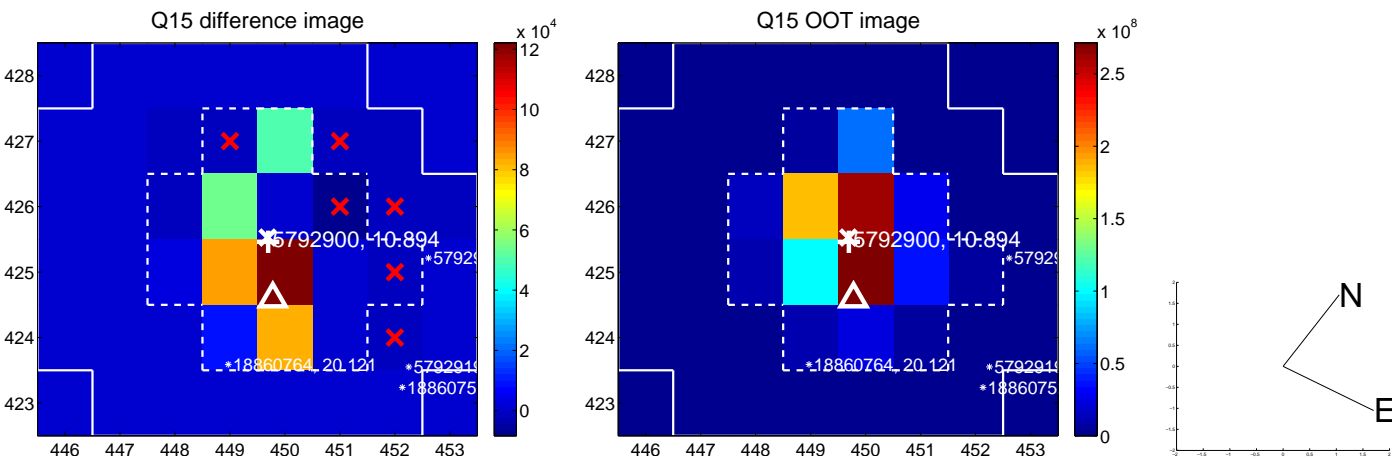
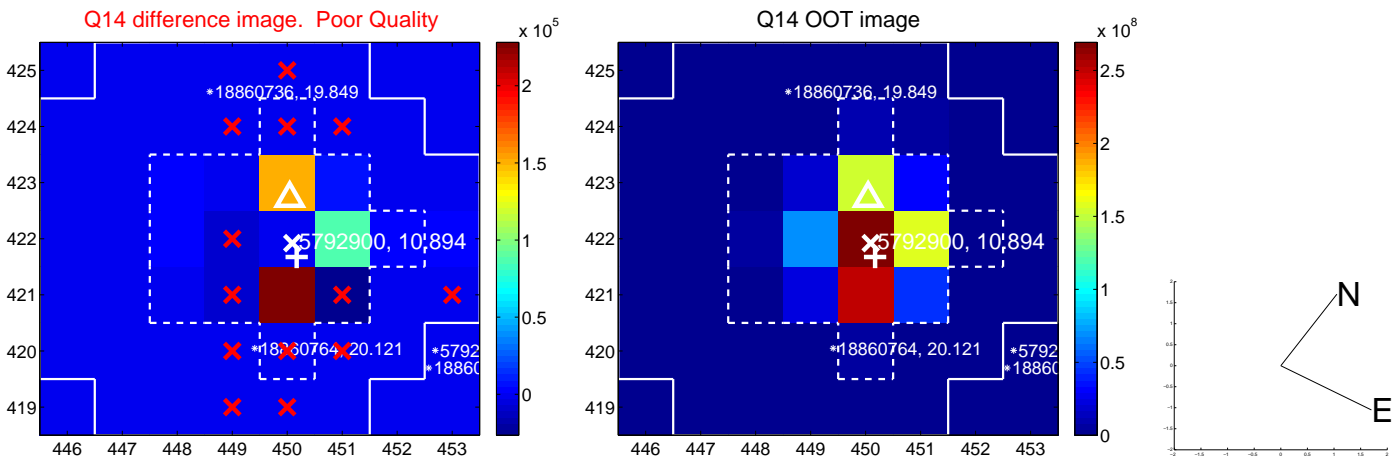
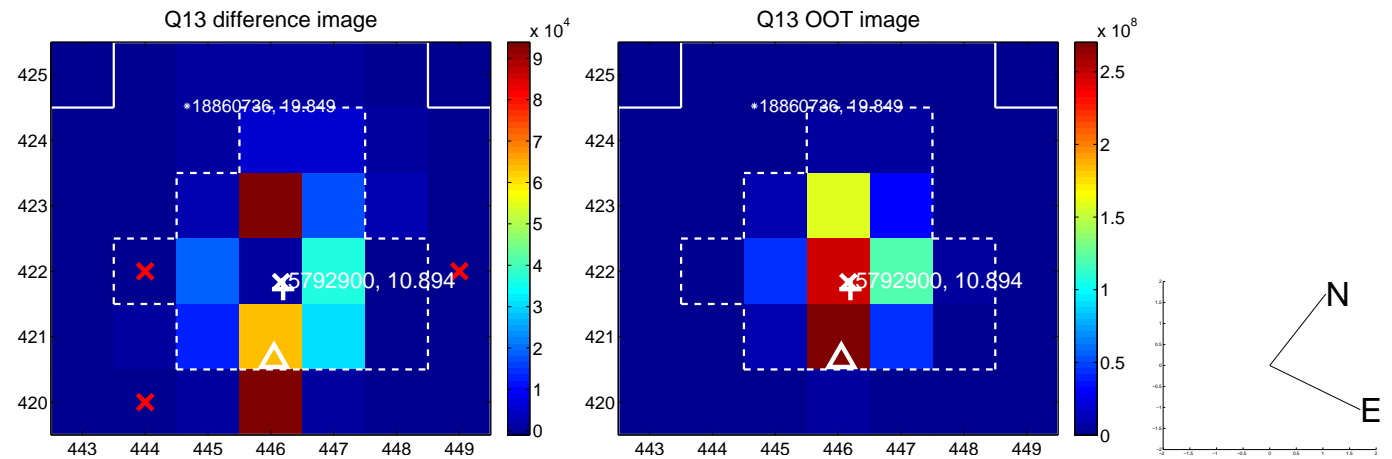
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



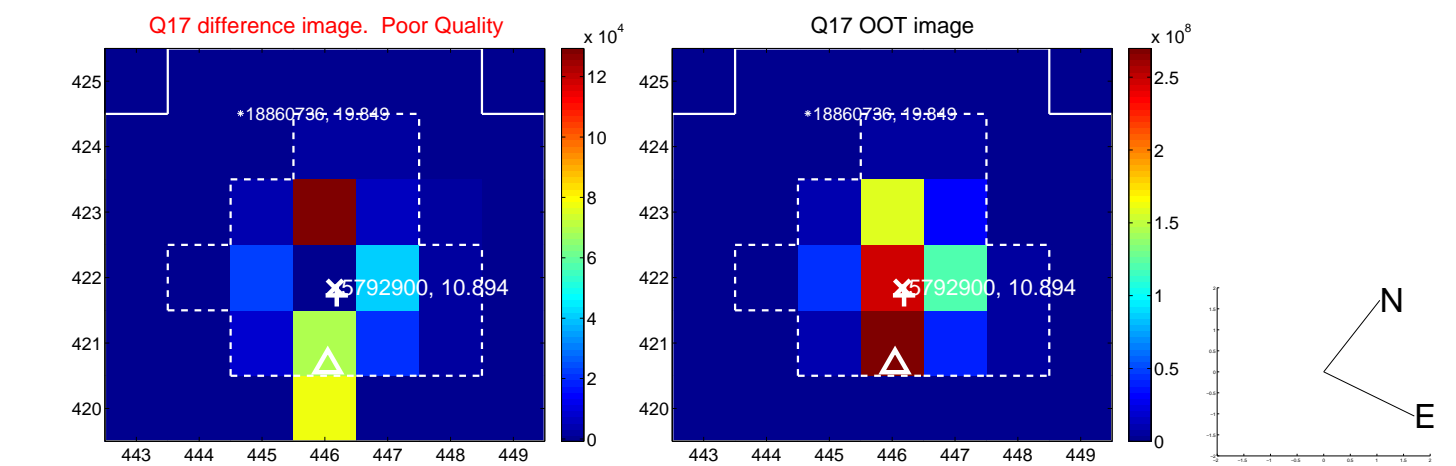
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



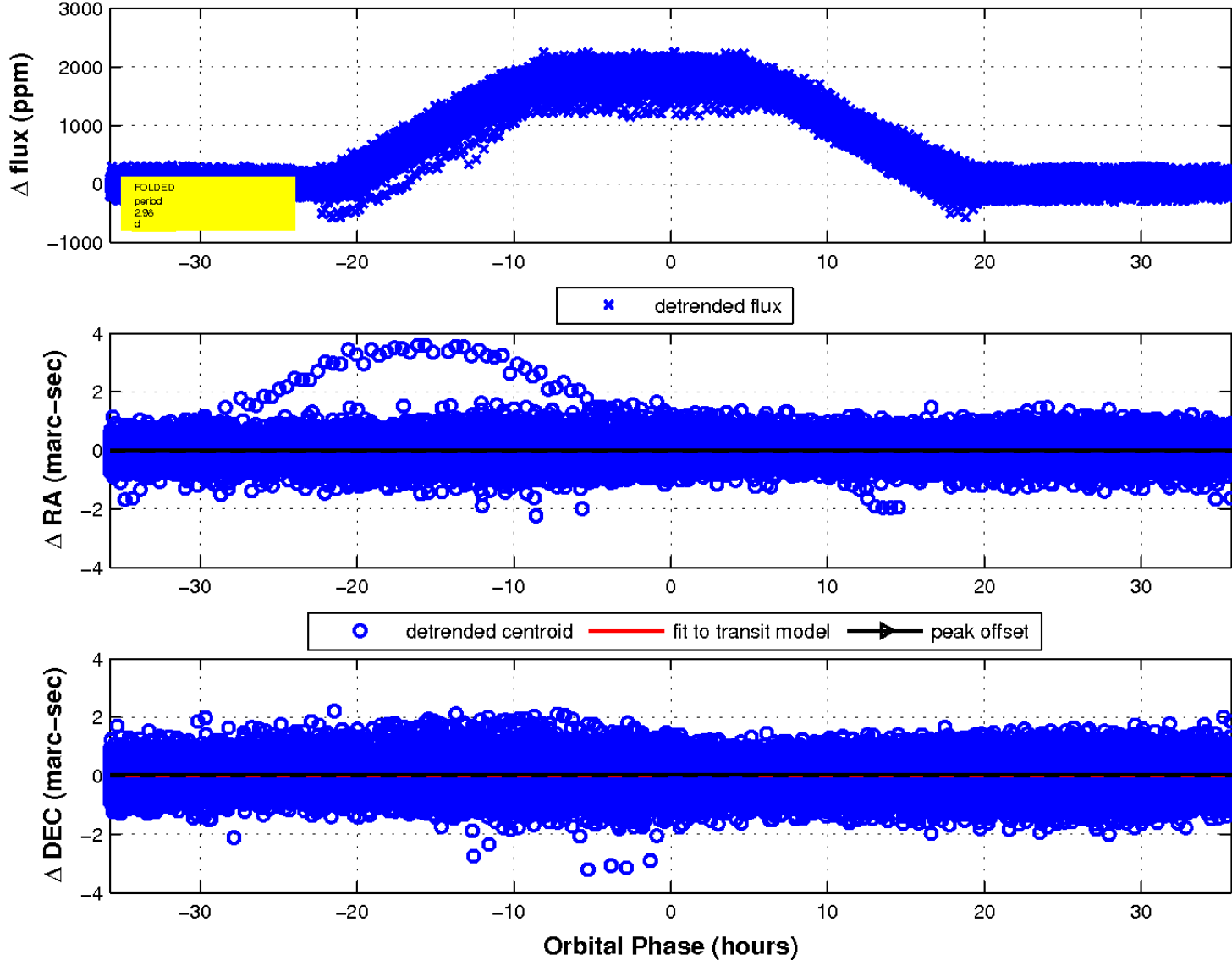
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



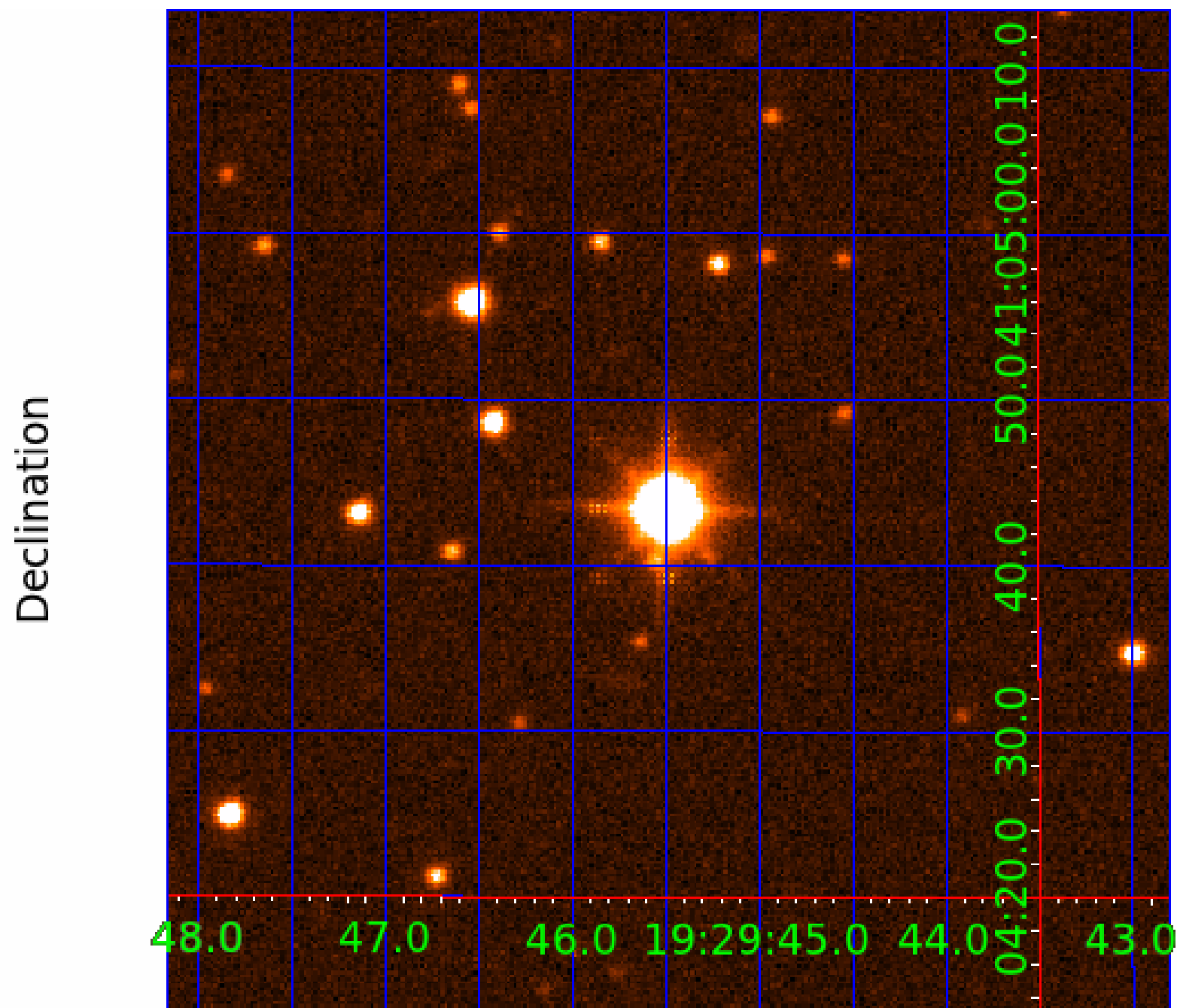
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 3



UKIRT Image



KIC 005792900

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})
005792900-01	OBS	No	2.980594	131.514399	33.8	9.000	11.9	-1.0	3.06	8529	1.81	16996.91
005792900-02	OBS	No	5.960772	136.156223	27.2	15.000	10.3	-1.0	3.06	8529	1.62	6745.86
005792900-03	OBS	No	5.961283	133.077567	17.8	15.000	8.2	-1.0	3.06	8529	1.31	6745.09

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005792900-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_SATURATED
005792900-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
005792900-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—NO_FITS—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.

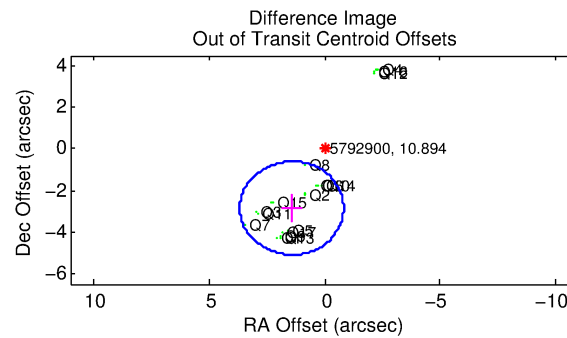
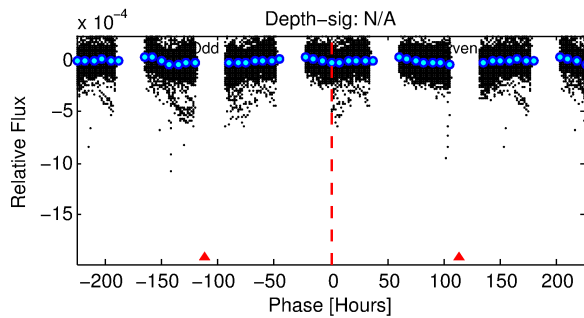
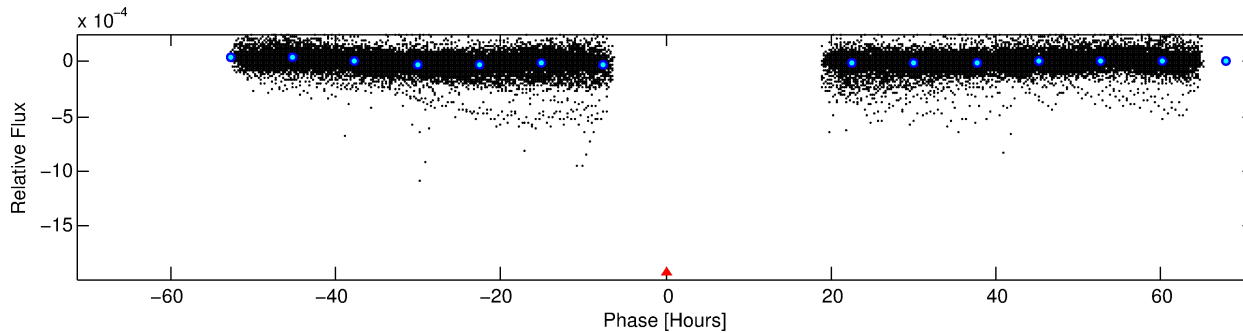
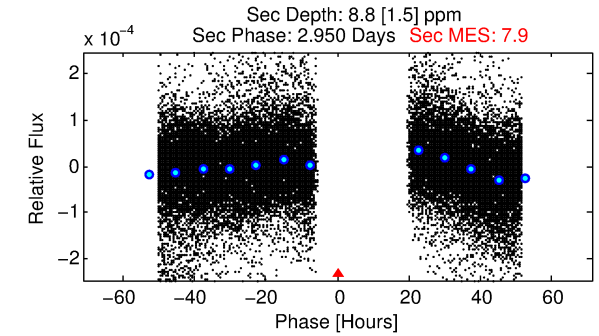
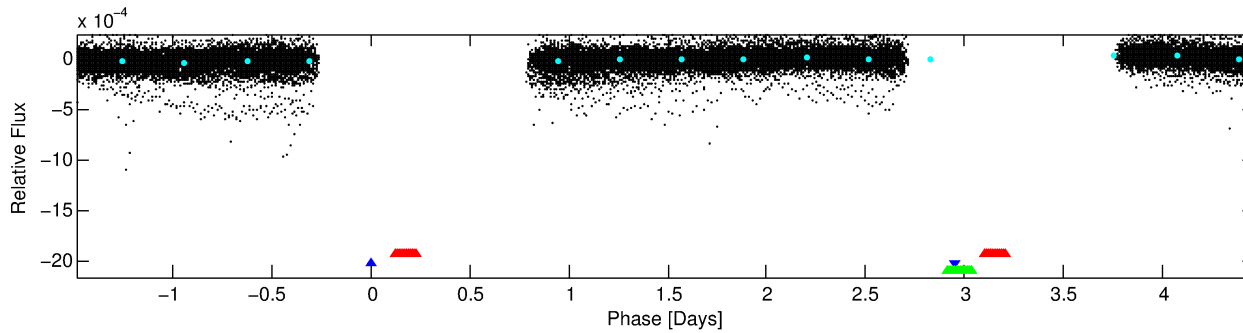
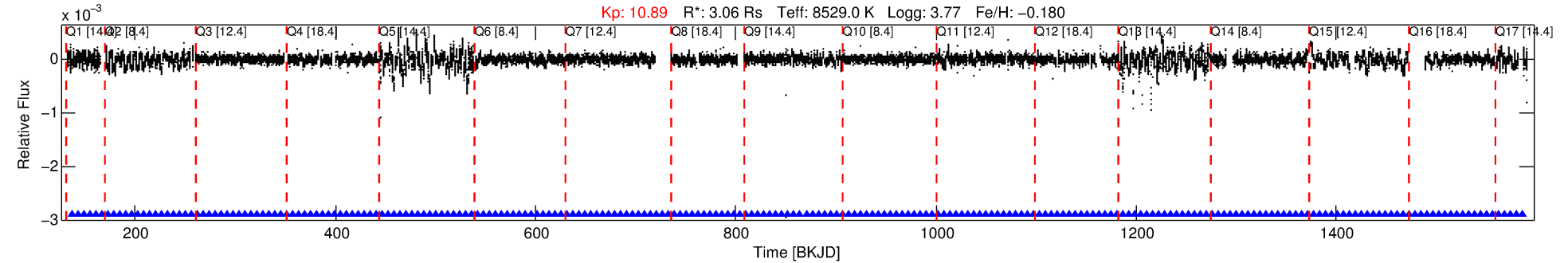
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005792900-02

No Significant Match Found

DV One-Page Summary

KIC: 5792900 Candidate: 2 of 3 Period: 5.961 d



TPS TCE Results:

Period = 5.96077 d
Epoch = 136.1562 BKJD

DV fit results are unavailable

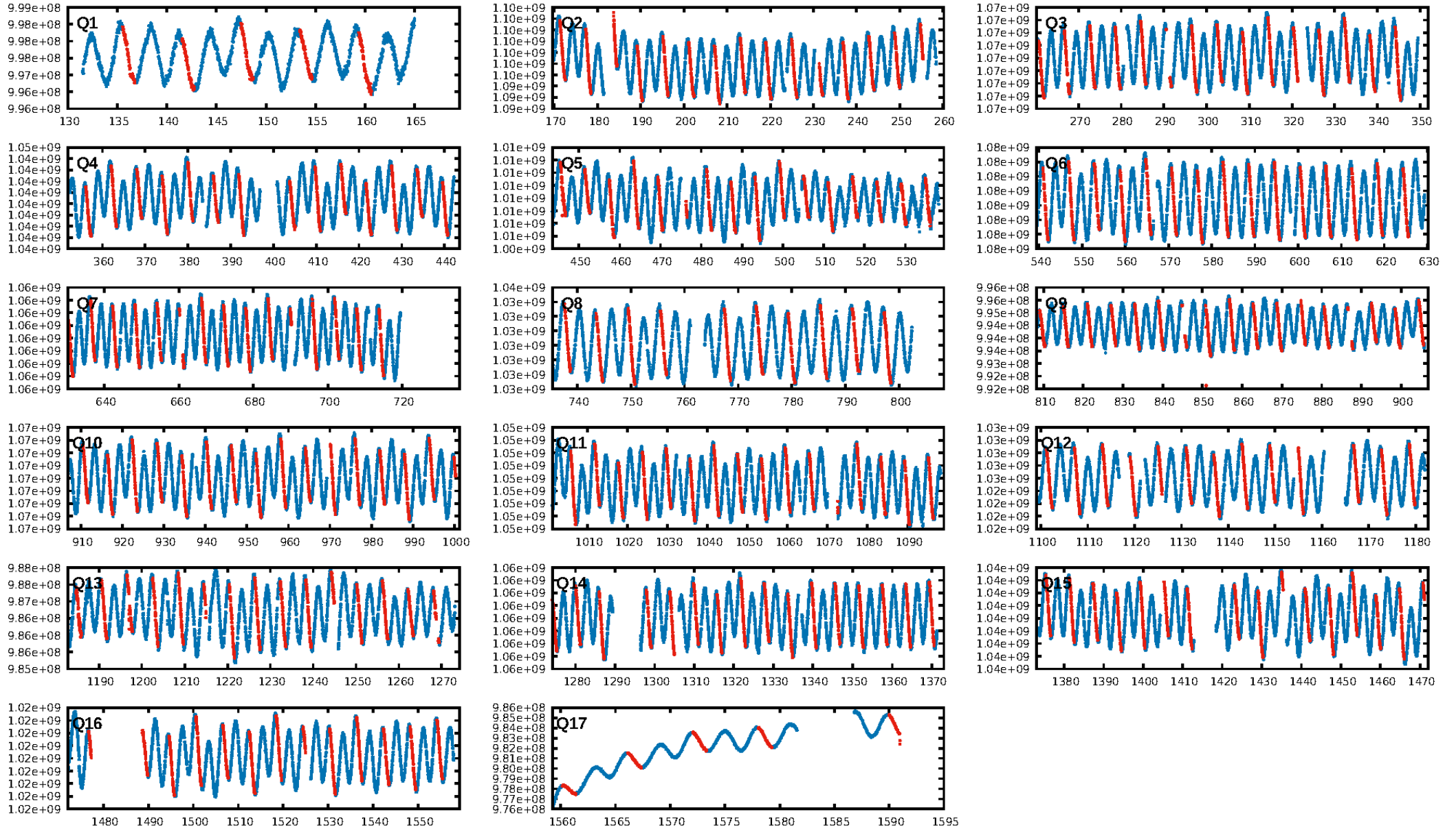
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [4.09 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [217/217]
GhostDiagnostic-chr: 13.39
Centroid-sig: 0.0%
Centroid-so: 0.193 arcsec [19.85 σ]
OotOffset-rm: 3.183 arcsec [4.25 σ]
KicOffset-rm: 3.838 arcsec [5.78 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.47 [8/17]
DiffImageOverlap-fno: 0.00 [0/17]

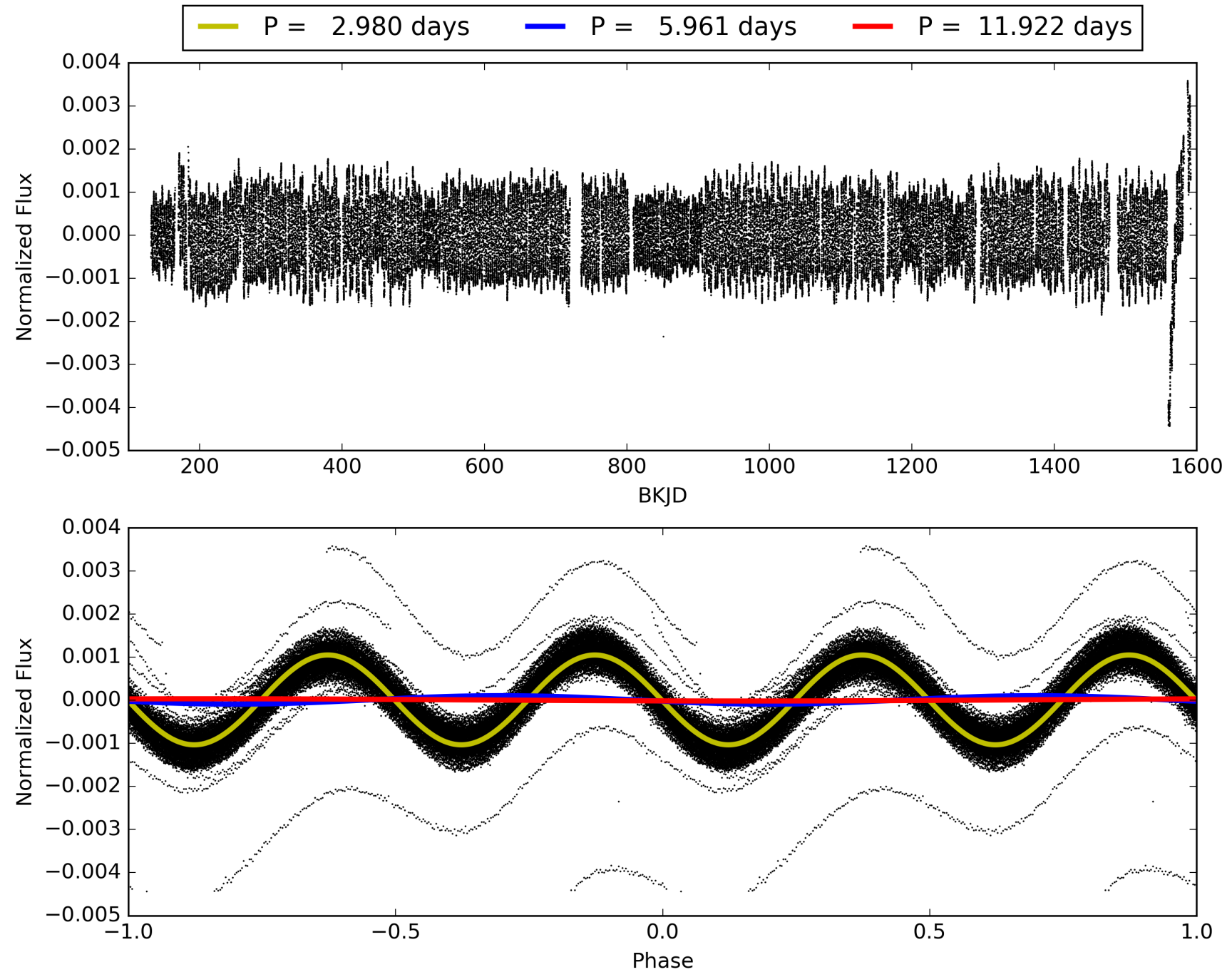
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 21:22:38 Z

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

TCE 005792900-02, PDC Light Curves

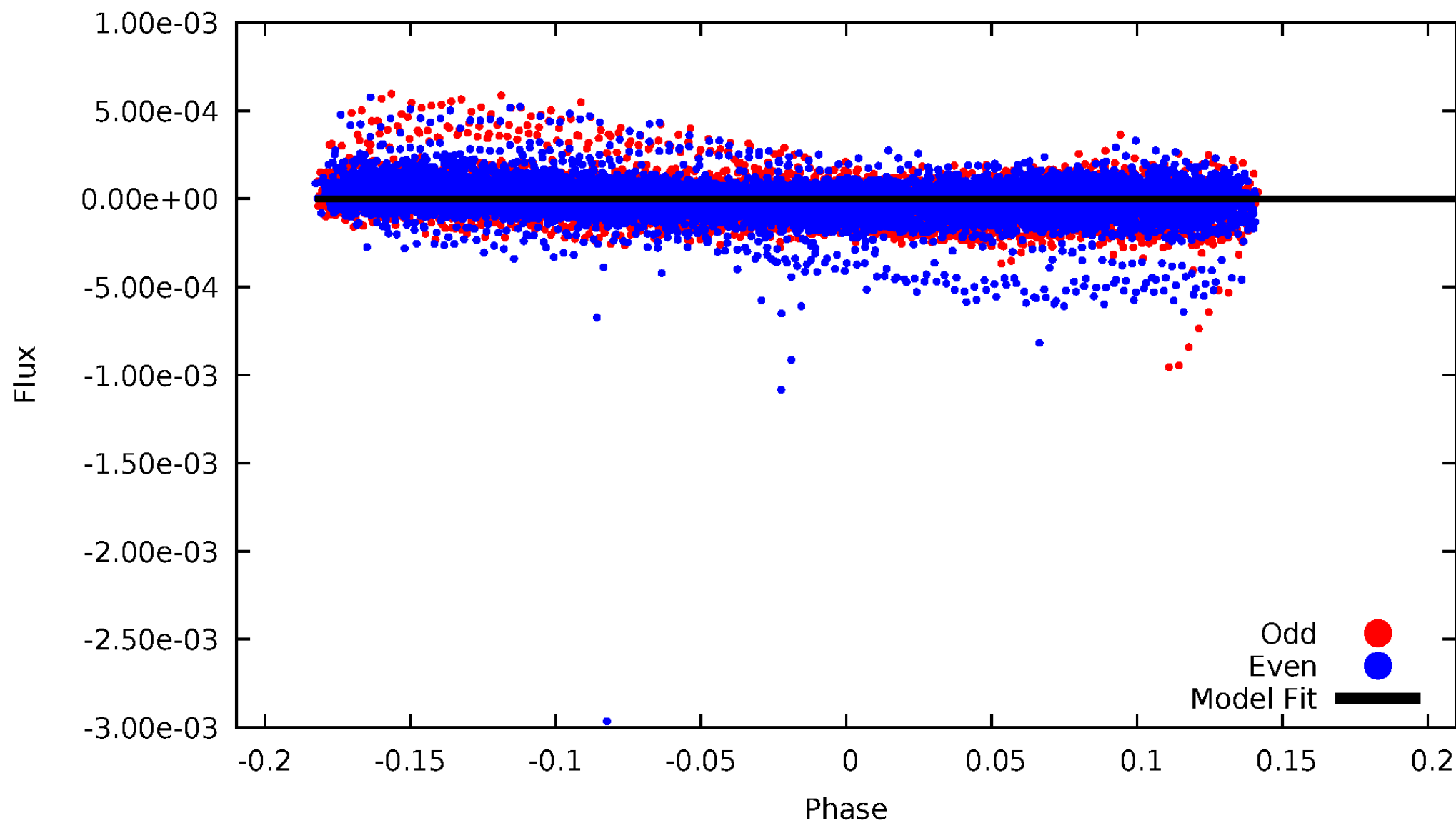


TCE 005792900-02



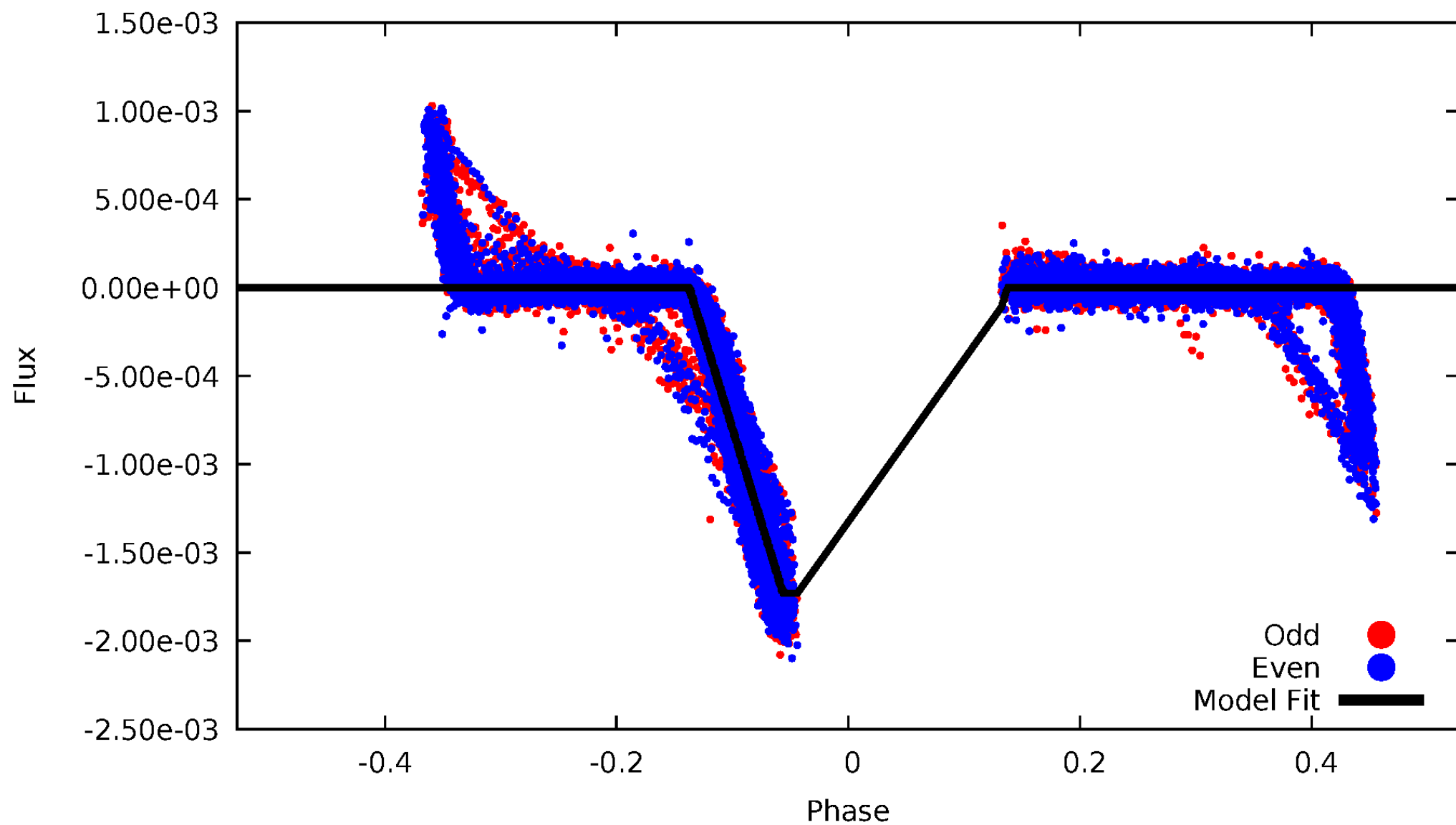
DV Odd/Even

TCE 005792900-02



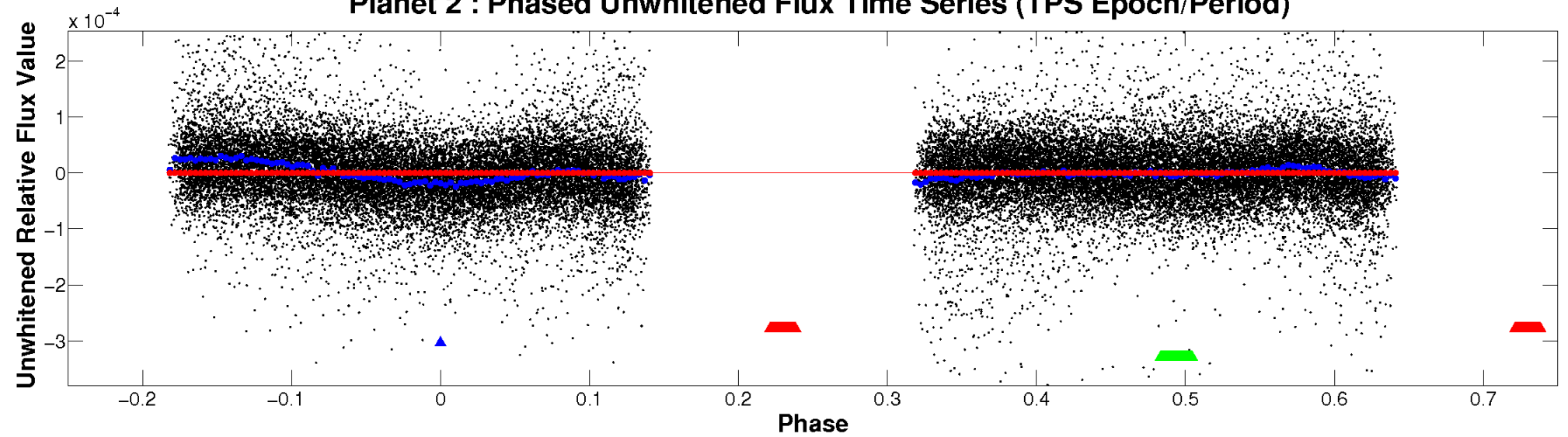
ALT Odd/Even

TCE 005792900-02

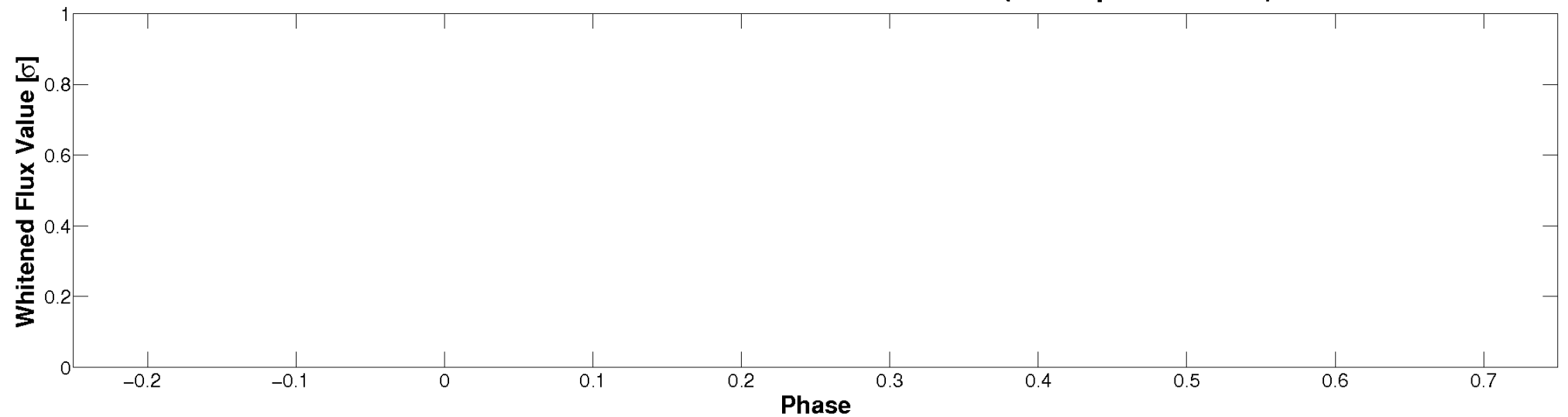


Non-Whitened Vs. Whitened Light Curve

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

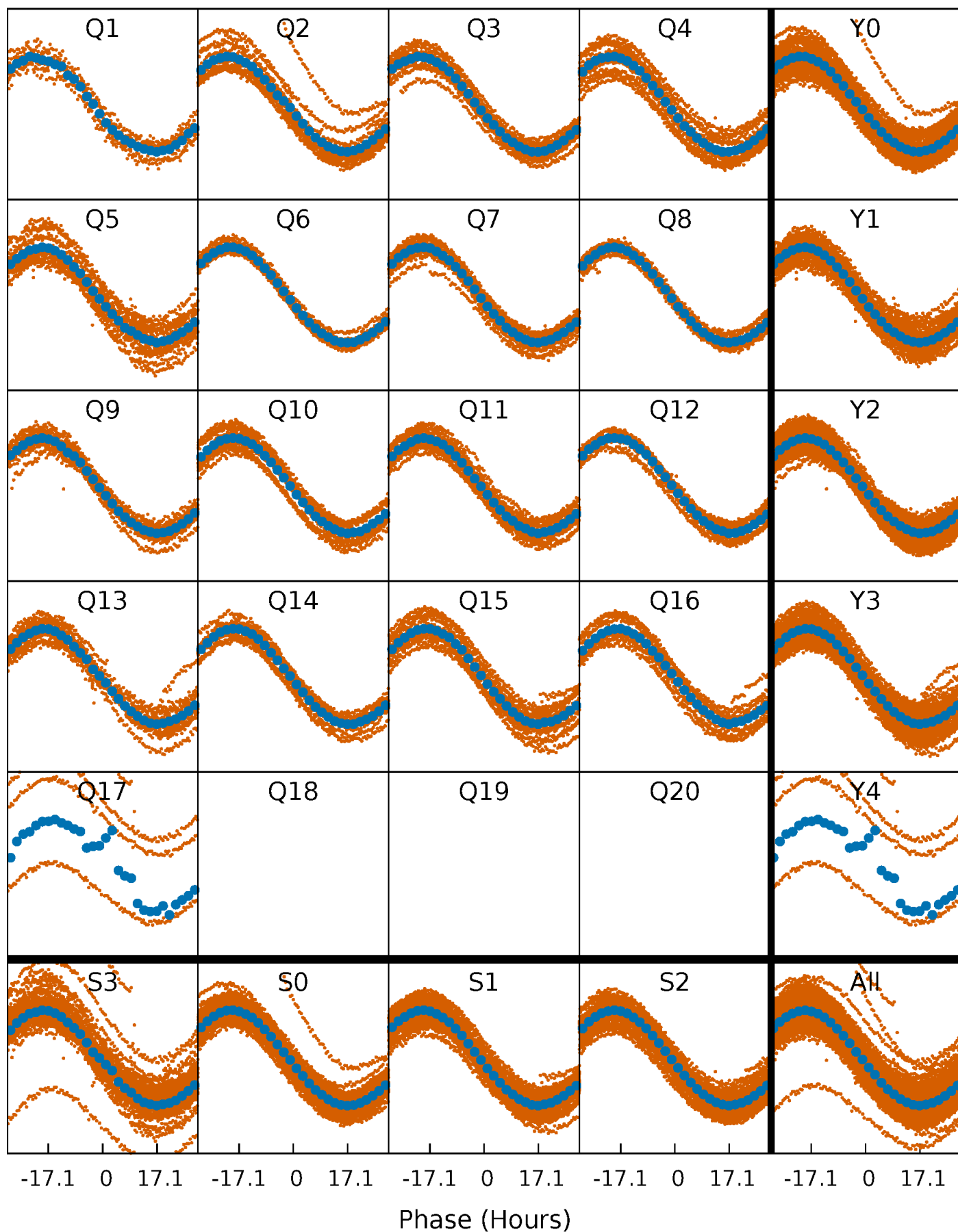


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



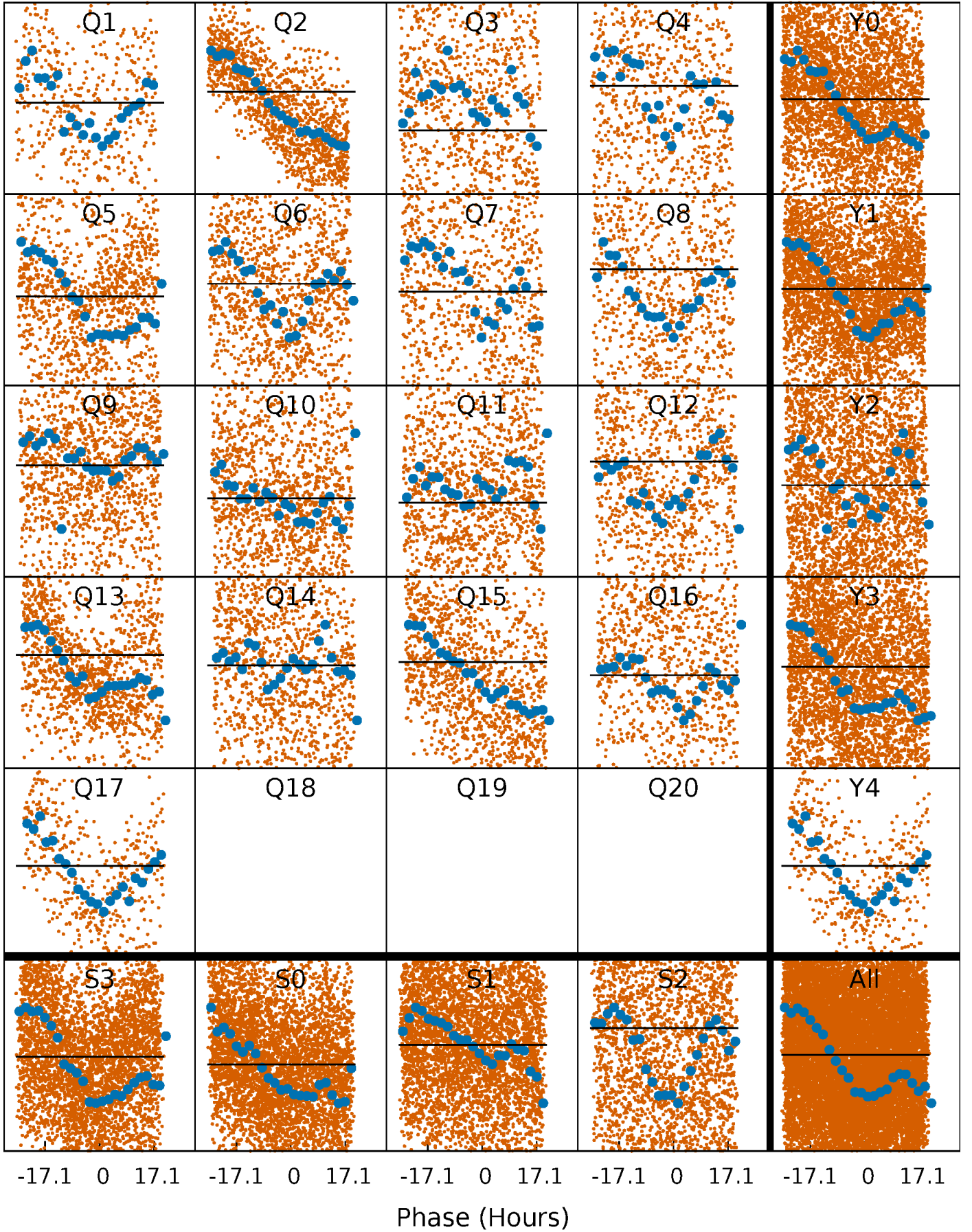
PDC Quarter-Phased Transit Curves

TCE 005792900-02 $P = 5.960772$ Days $T_0 = 136.156223$ (BKJD)



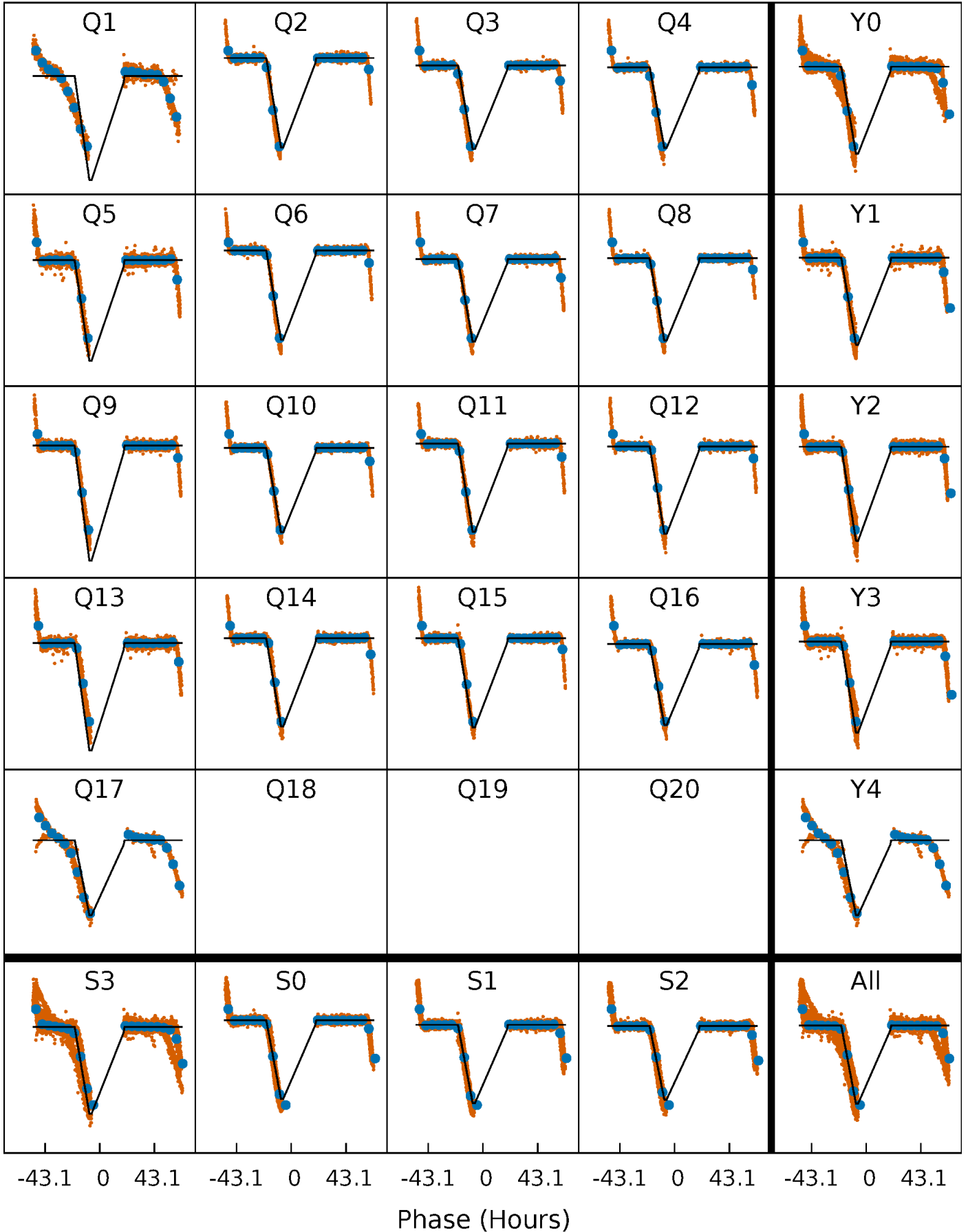
DV Quarter-Phased Transit Curves

TCE 005792900-02 $P = 5.960772$ Days $T_0 = 136.156223$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

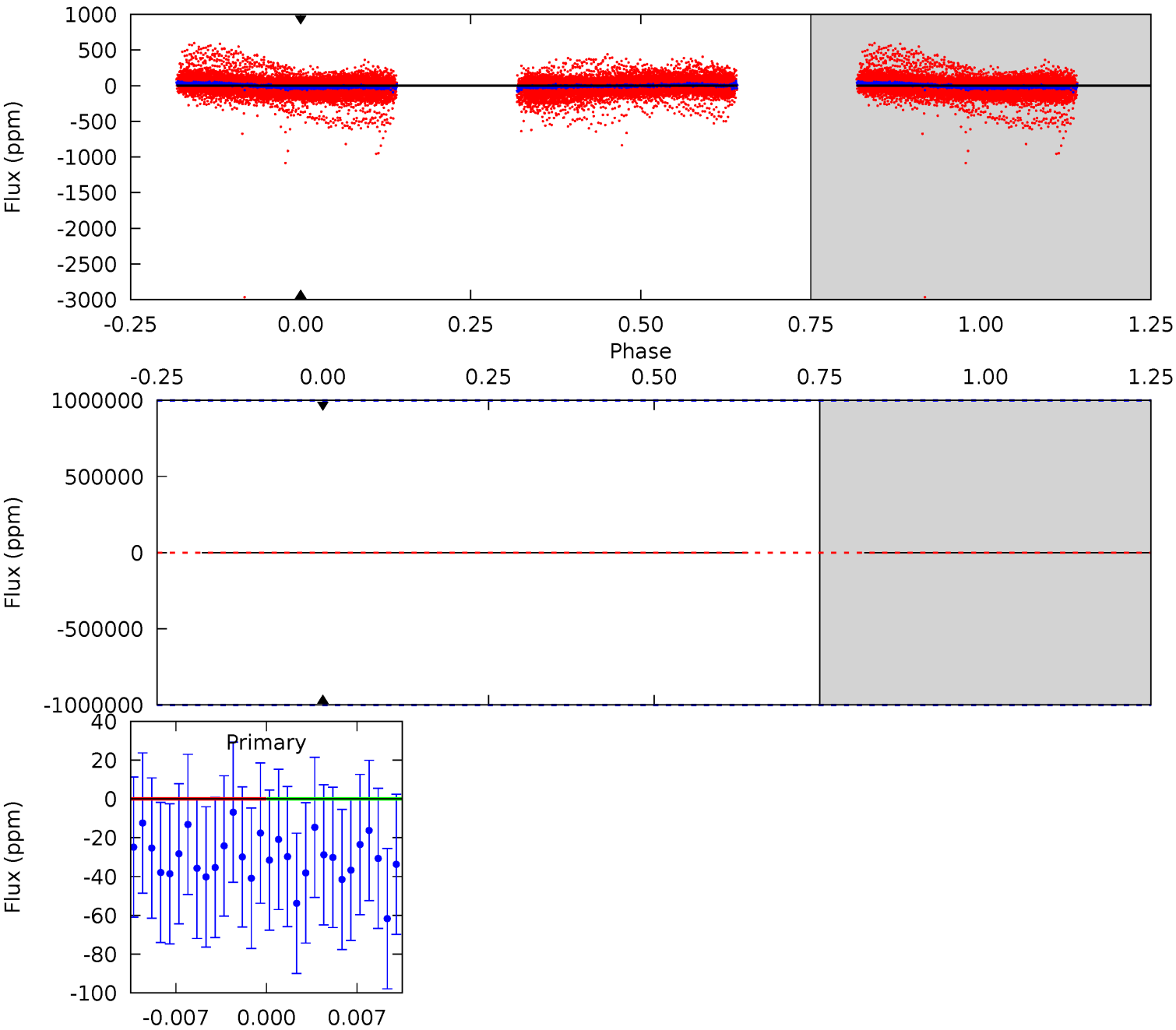
TCE 005792900-02 P= 5.960772 Days $T_0=137.263416$ (BKJD)



DV Model-Shift Uniqueness Test

005792900-02, P = 5.960772 Days, E = 130.195451 Days

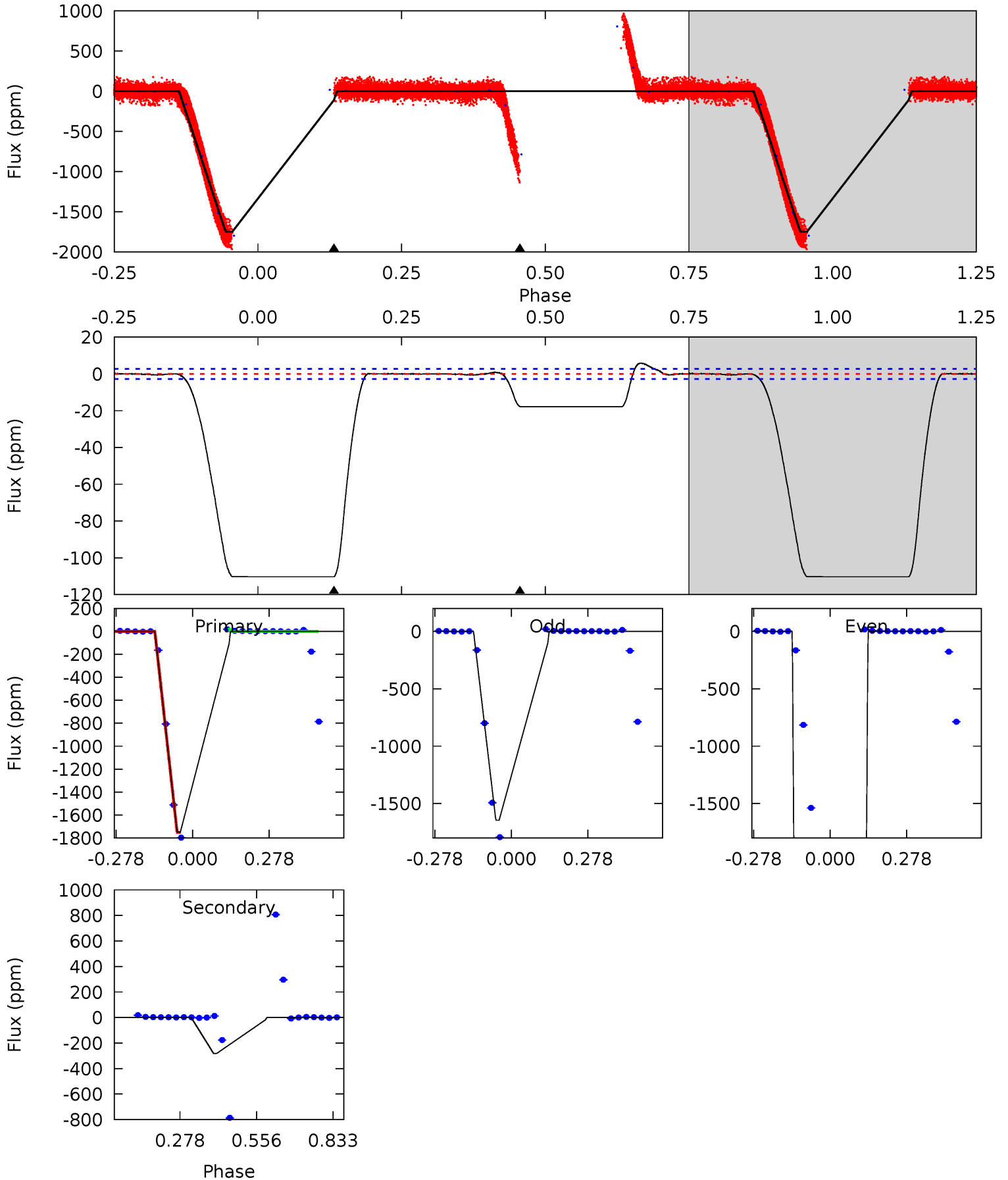
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005792900-02, P = 5.960772 Days, E = 131.302644 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
174.7	28.1	0	0	4.35	1.09	0.35	174.7	174.7	28.1	28.1	1312	1.00	0.05	256.7



Stellar Parameters For KIC 005792900

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8529^{+462}_{-693}	$3.769^{+0.408}_{-0.128}$	$-0.180^{+0.250}_{-0.150}$	$3.065^{+0.730}_{-1.355}$	$2.017^{+0.384}_{-0.423}$	$0.099^{+0.334}_{-0.039}$
	+5%/-8%	+11%/-3%	+139%/-83%	+24%/-44%	+19%/-21%	+338%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005792900-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$21.32^{+25.36}_{-15.22}$	3131^{+322}_{-385}	-5249^{+58486}_{-55624}	$-5.474^{+1354.850}_{-1649.513}$
Alt.	-18 ± 1	$26.93^{+26.53}_{-19.27}$	3117^{+323}_{-398}	-2838^{+6349}_{-305}	$0.088^{+0.989}_{-0.065}$

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 $A_{obs} \gg 1.0$

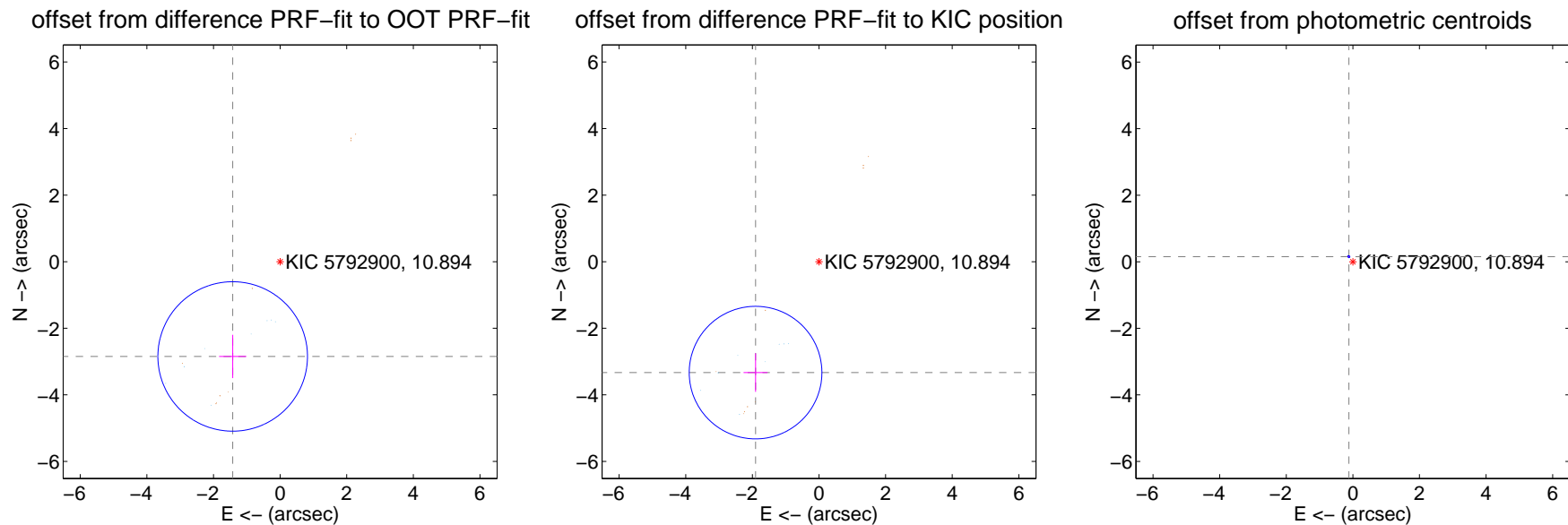
DV Centroid Data

Supplemental centroid analysis for 005792900-02. **Kepler magnitude: 10.89.** Transit SNR -1.00

There are 8 quarters with good PRF difference image offsets

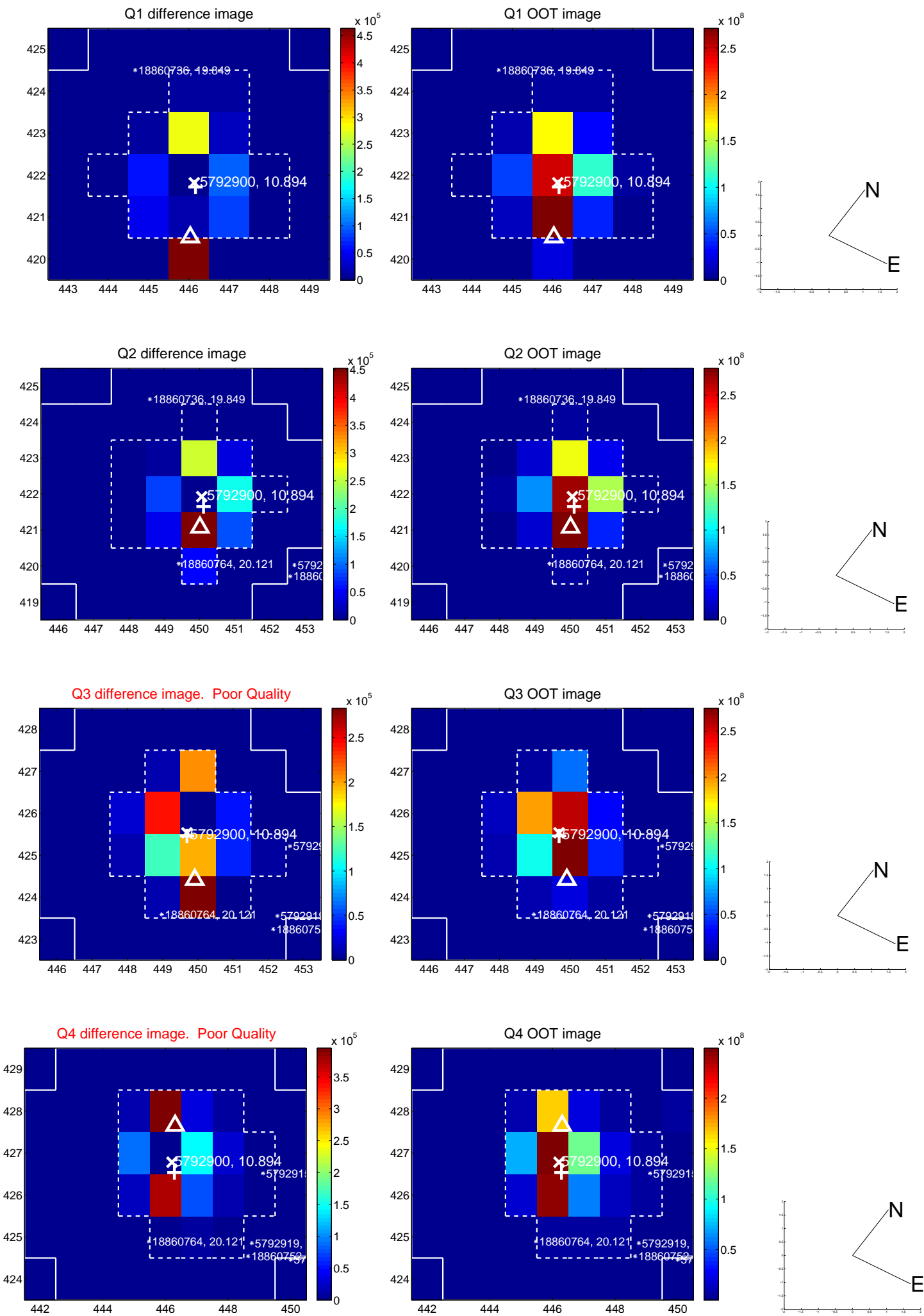
The direct PRF centroid is offset from the target star catalog position by about 0.47 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.183 ± 0.748	4.25	1.424 ± 0.409	-2.847 ± 0.649
PRF-fit source offset from KIC position	3.838 ± 0.664	5.78	1.904 ± 0.359	-3.332 ± 0.579
photometric centroid source offset	0.19 ± 0.01	19.85	0.12 ± 0.01	0.15 ± 0.01

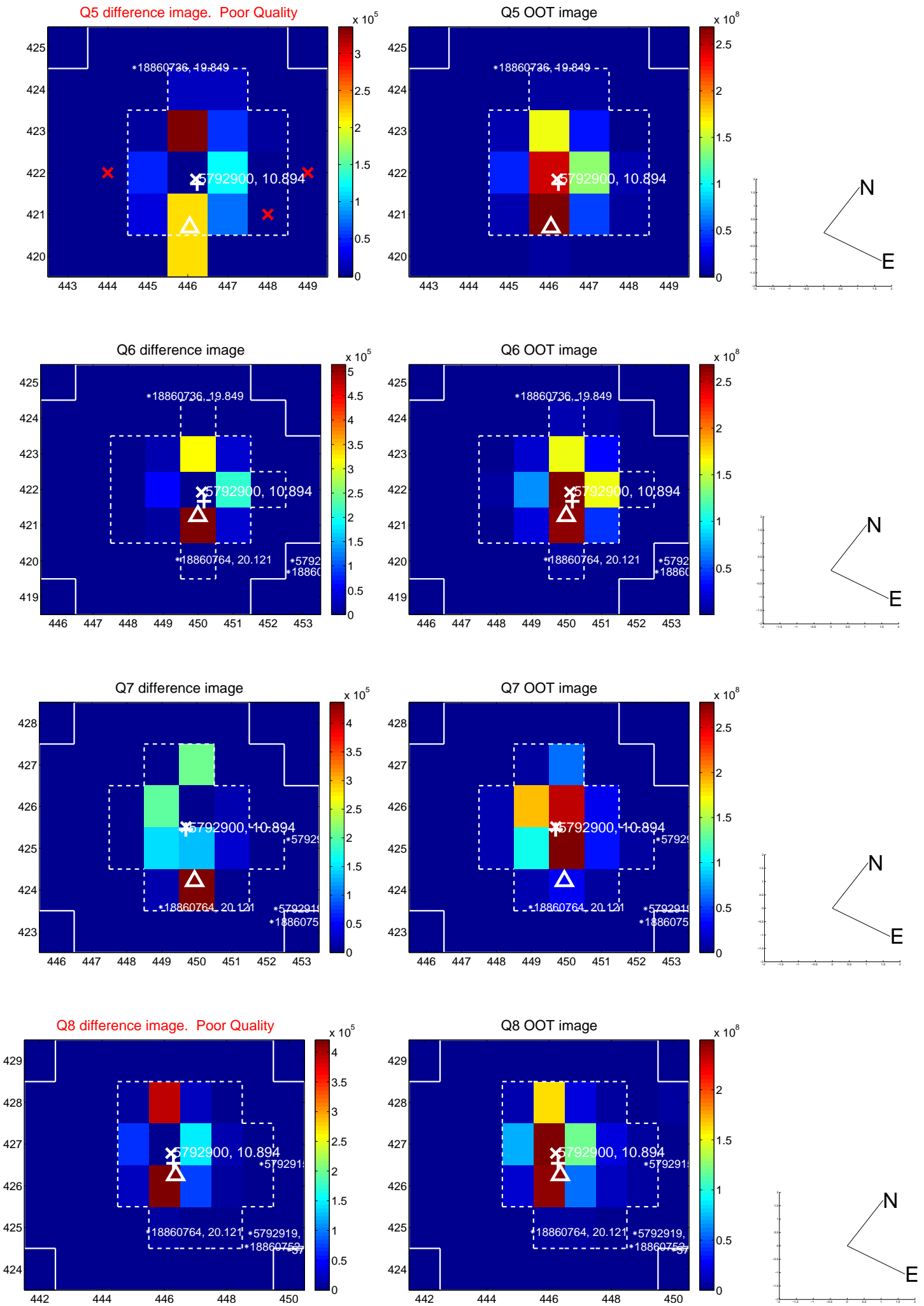


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

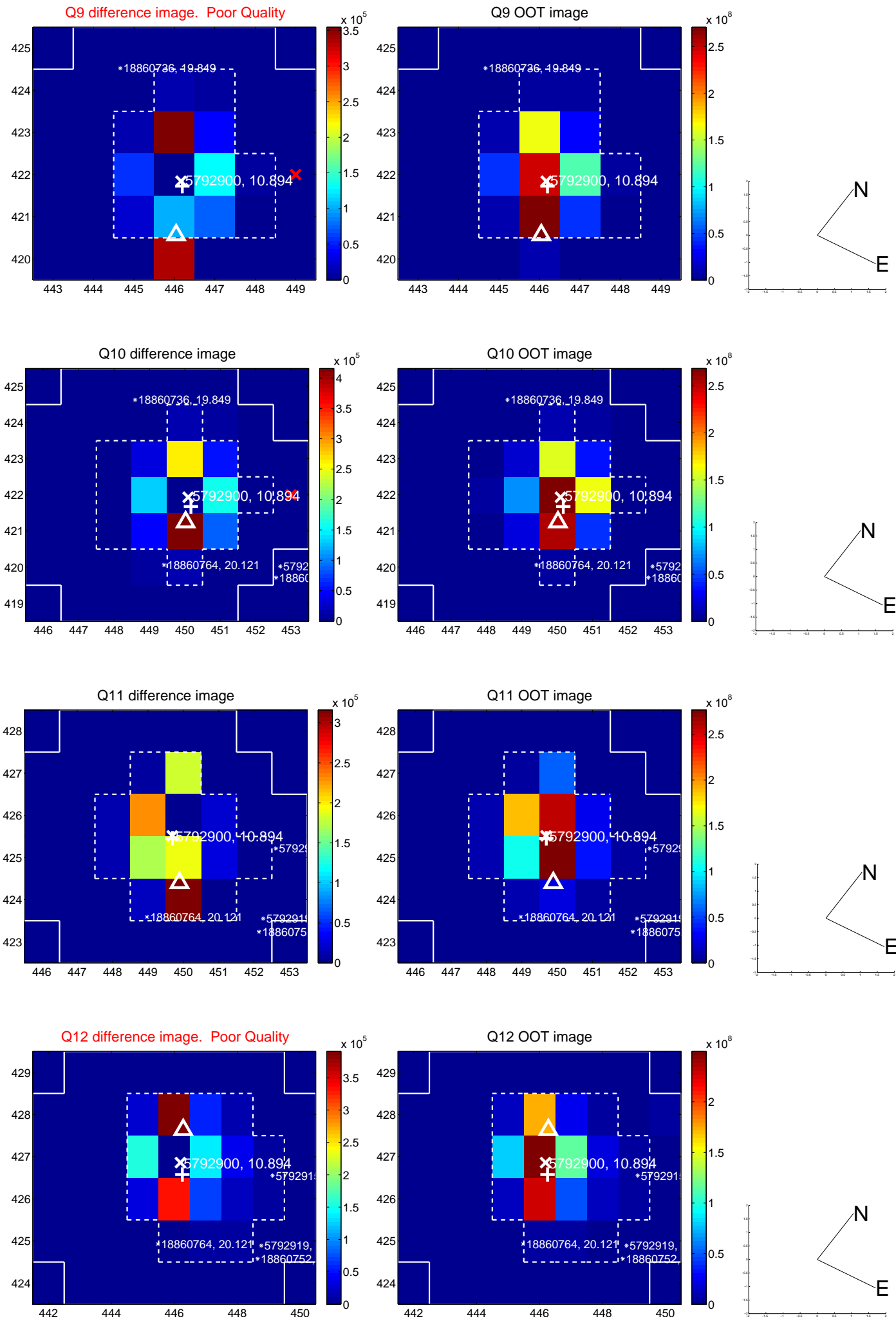
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



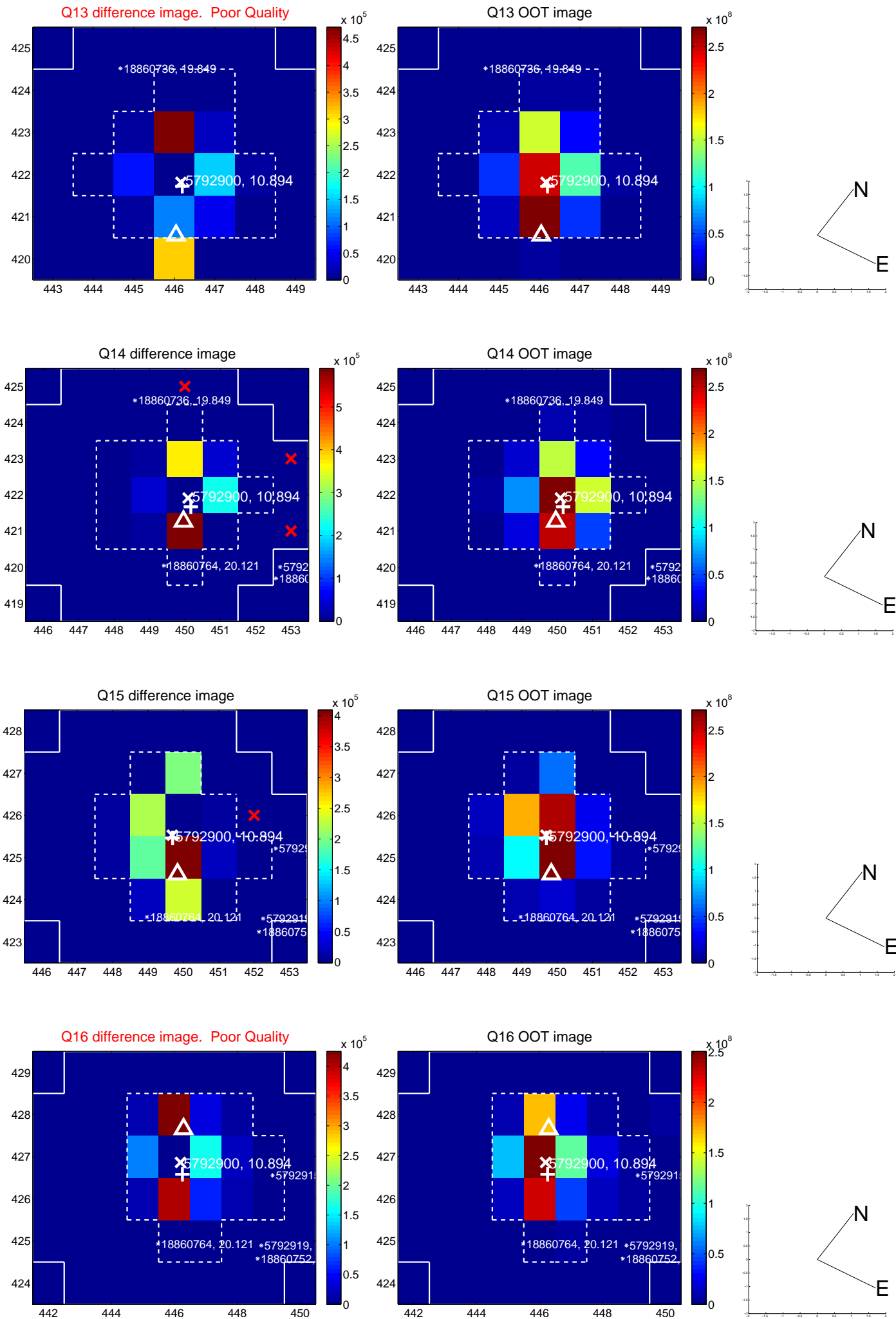
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



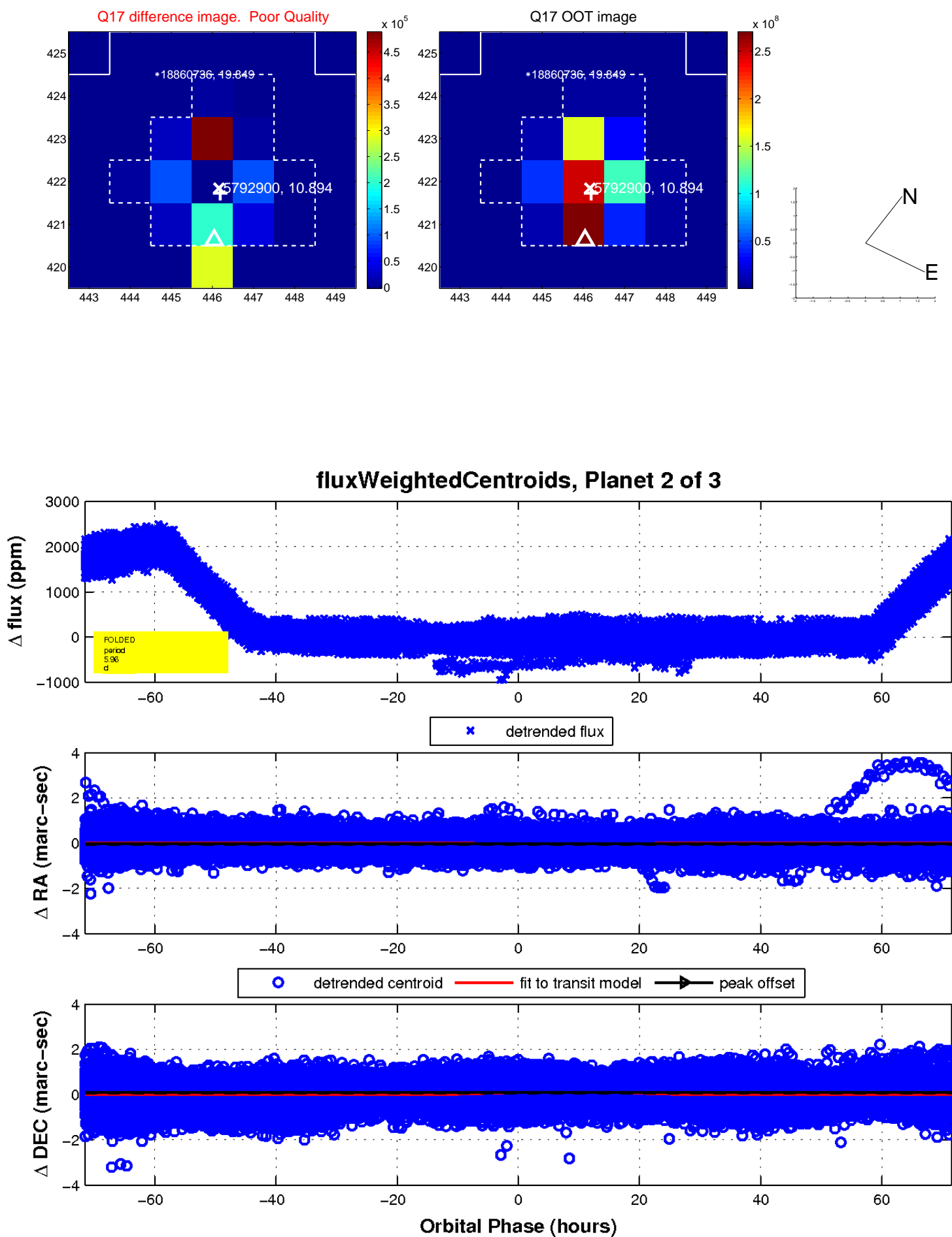
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

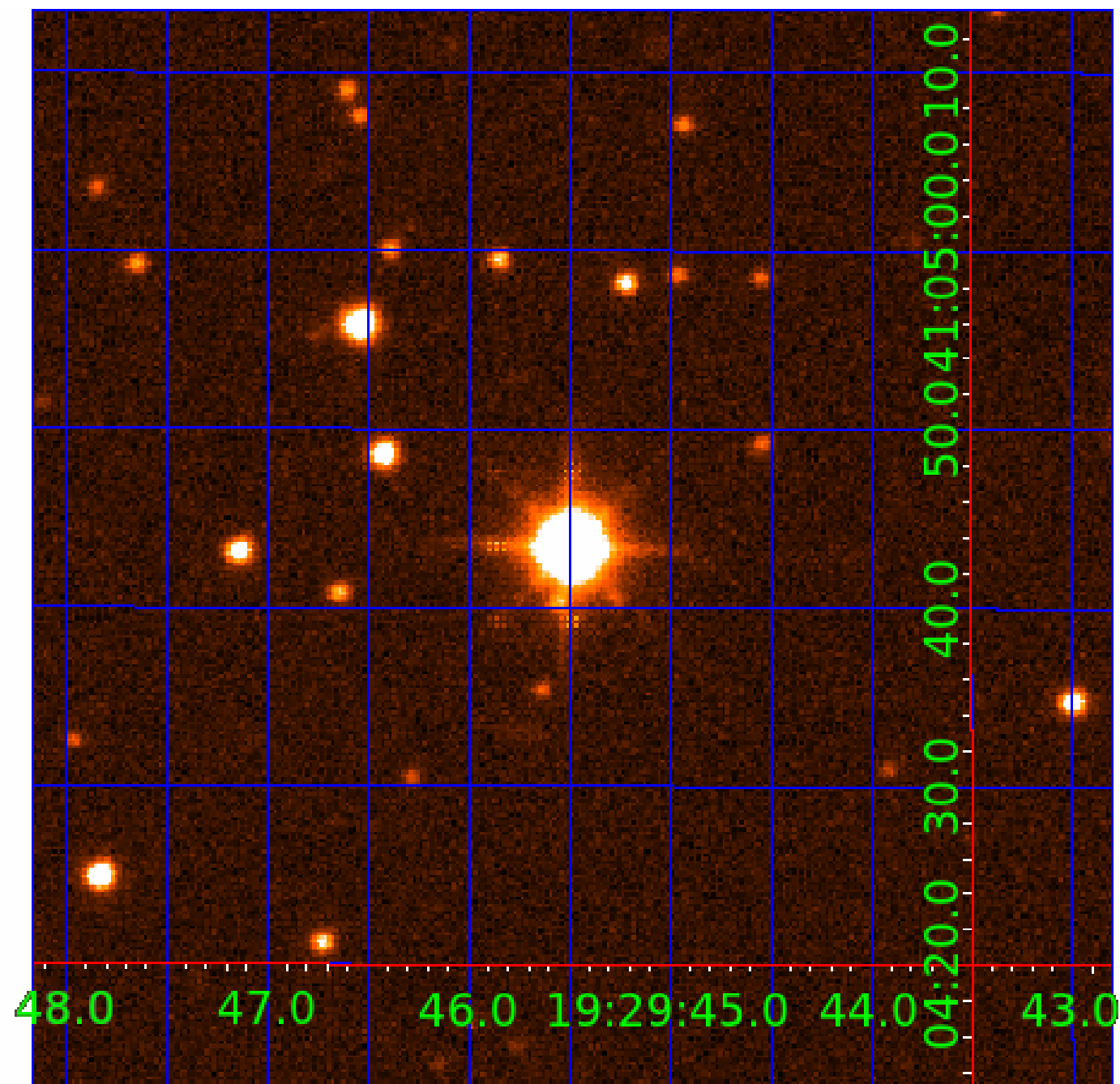


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005792900

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})
005792900-01	OBS	No	2.980594	131.514399	33.8	9.000	11.9	-1.0	3.06	8529	1.81	16996.91
005792900-02	OBS	No	5.960772	136.156223	27.2	15.000	10.3	-1.0	3.06	8529	1.62	6745.86
005792900-03	OBS	No	5.961283	133.077567	17.8	15.000	8.2	-1.0	3.06	8529	1.31	6745.09

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005792900-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_SATURATED
005792900-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
005792900-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—NO_FITS—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.

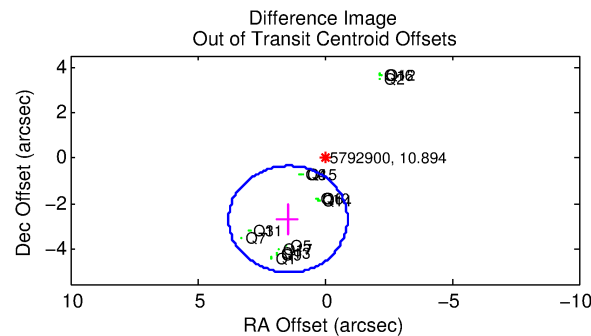
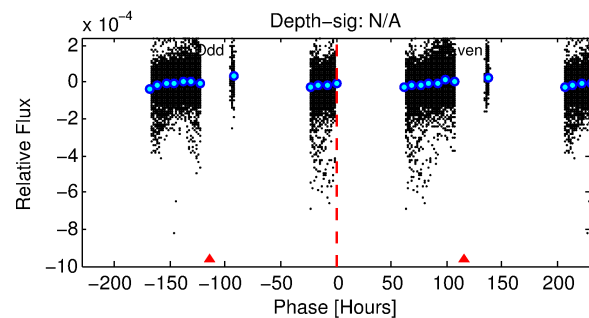
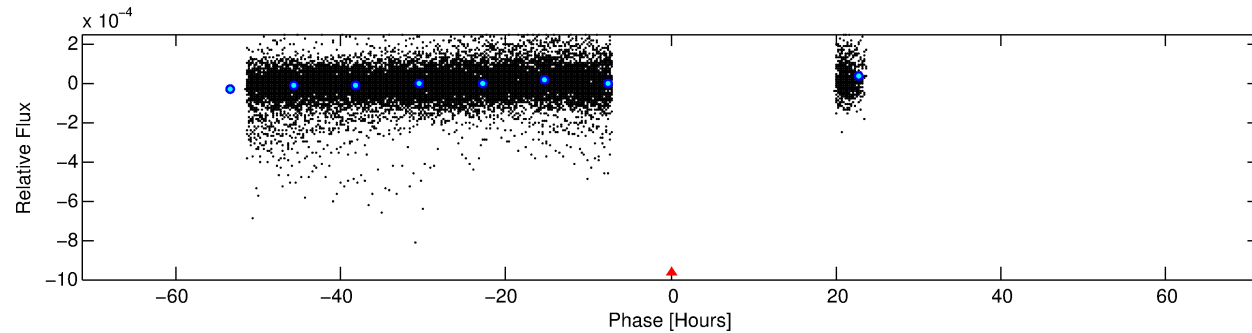
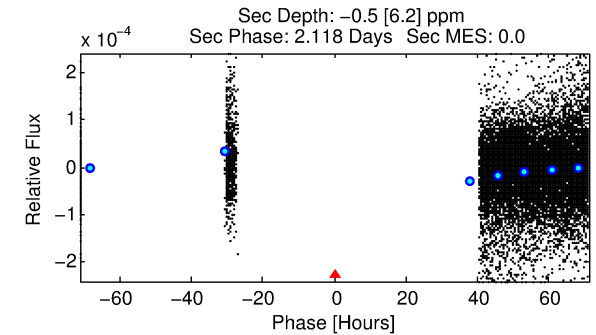
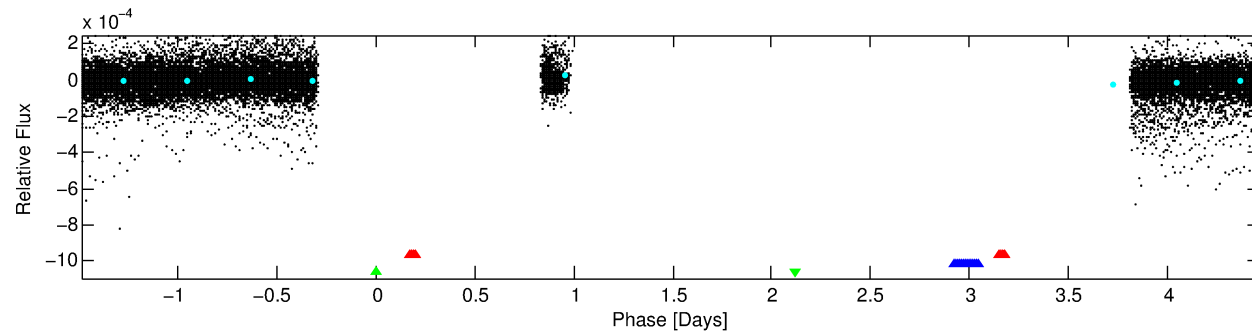
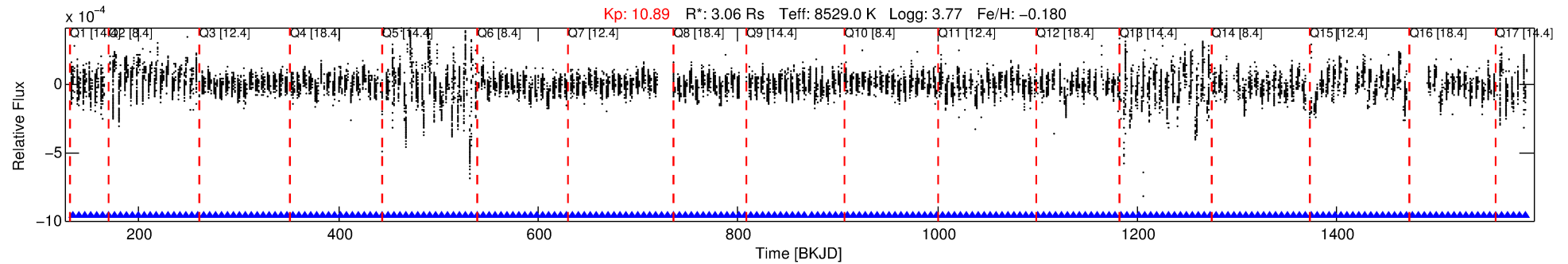
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005792900-03

No Significant Match Found

DV One-Page Summary

KIC: 5792900 Candidate: 3 of 3 Period: 5.961 d



TPS TCE Results:

Period = 5.96128 d
Epoch = 133.0776 BKJD

DV fit results are unavailable

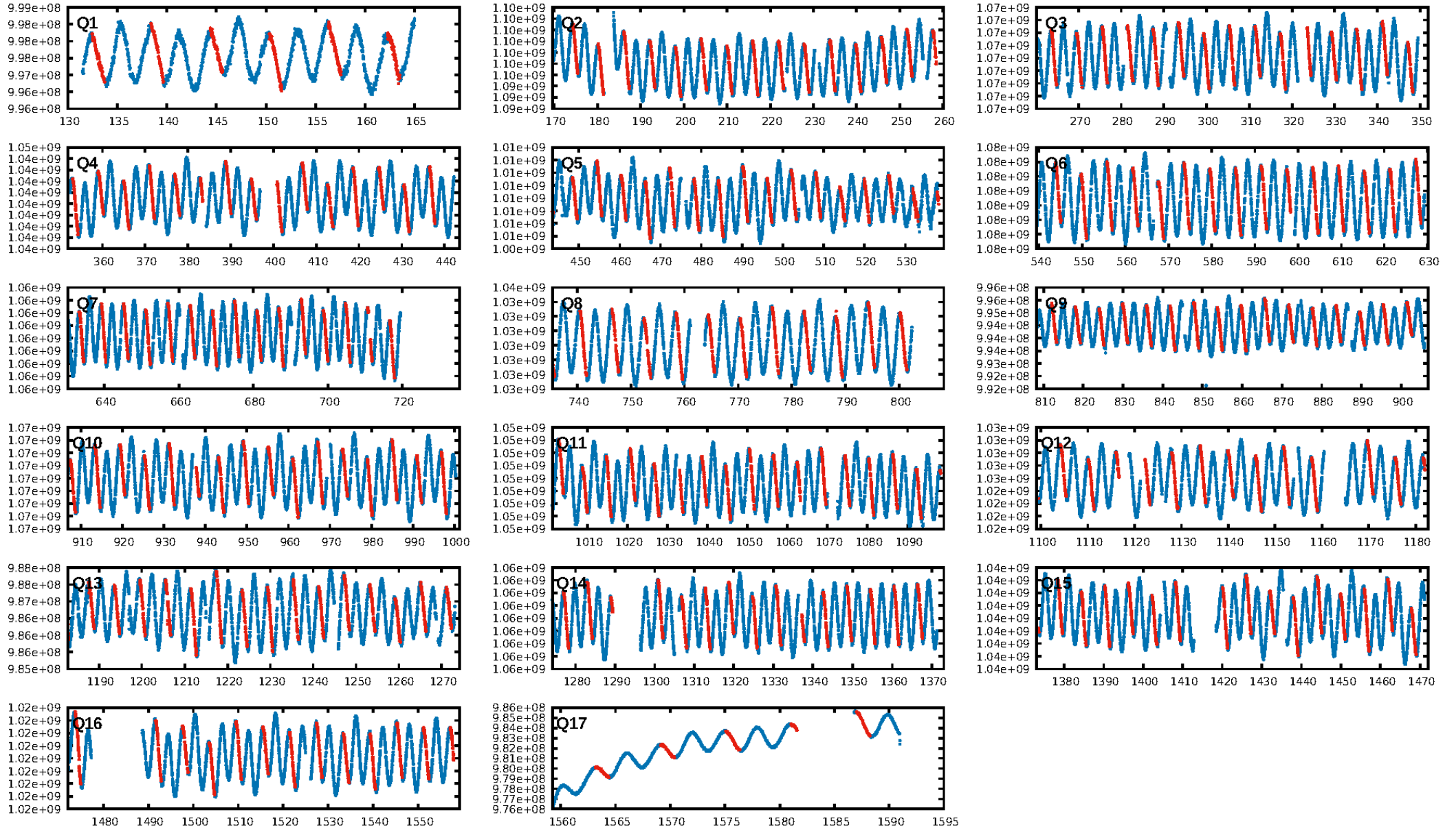
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [217/217]
GhostDiagnostic-chr: 0.2758
Centroid-sig: 0.0%
Centroid-so: 0.209 arcsec [22.29 σ]
OotOffset-rm: 3.028 arcsec [3.89 σ]
KicOffset-rm: 3.641 arcsec [5.40 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.41 [7/17]
DiffImageOverlap-fno: 0.00 [0/17]

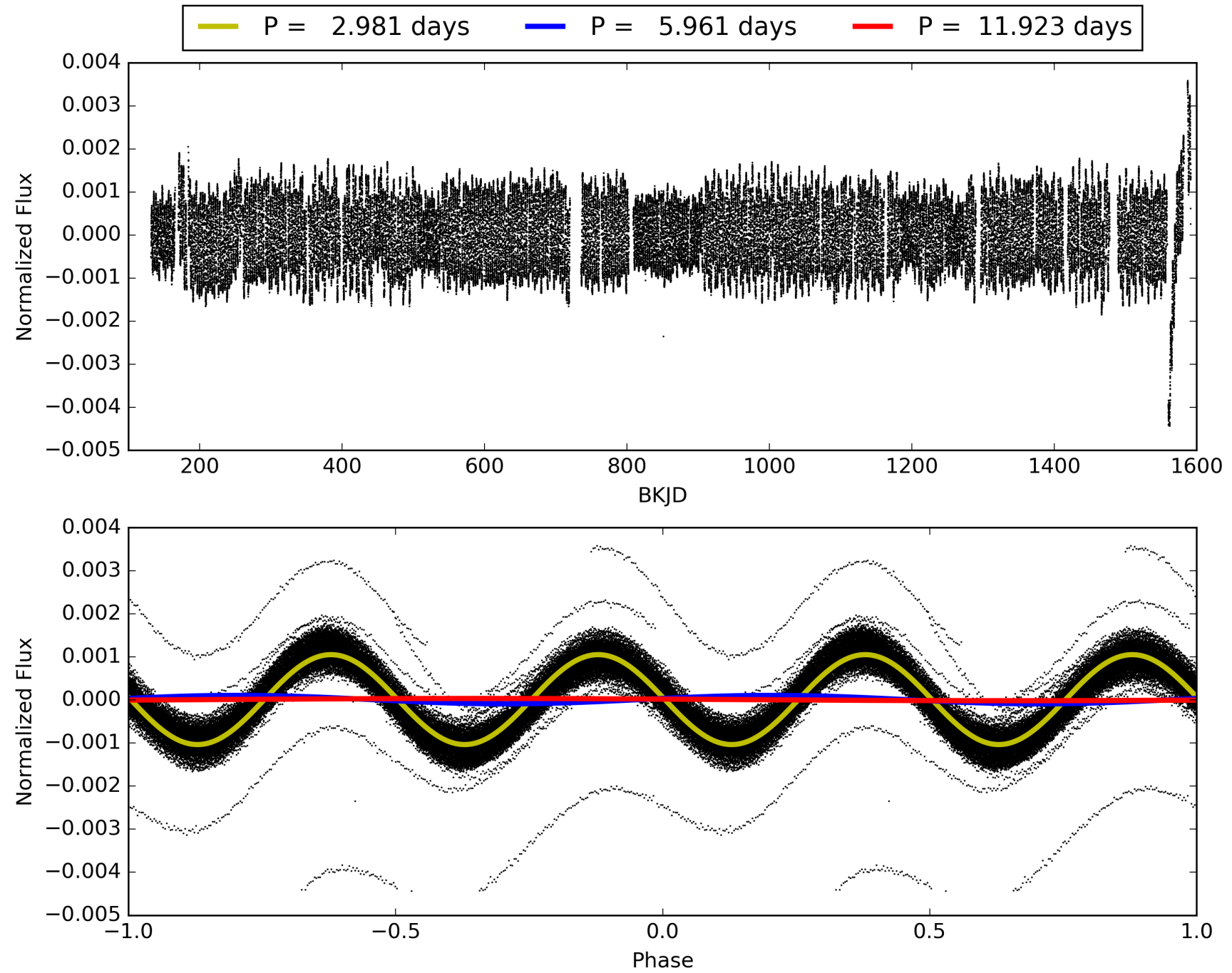
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 21:22:49 Z

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

TCE 005792900-03, PDC Light Curves

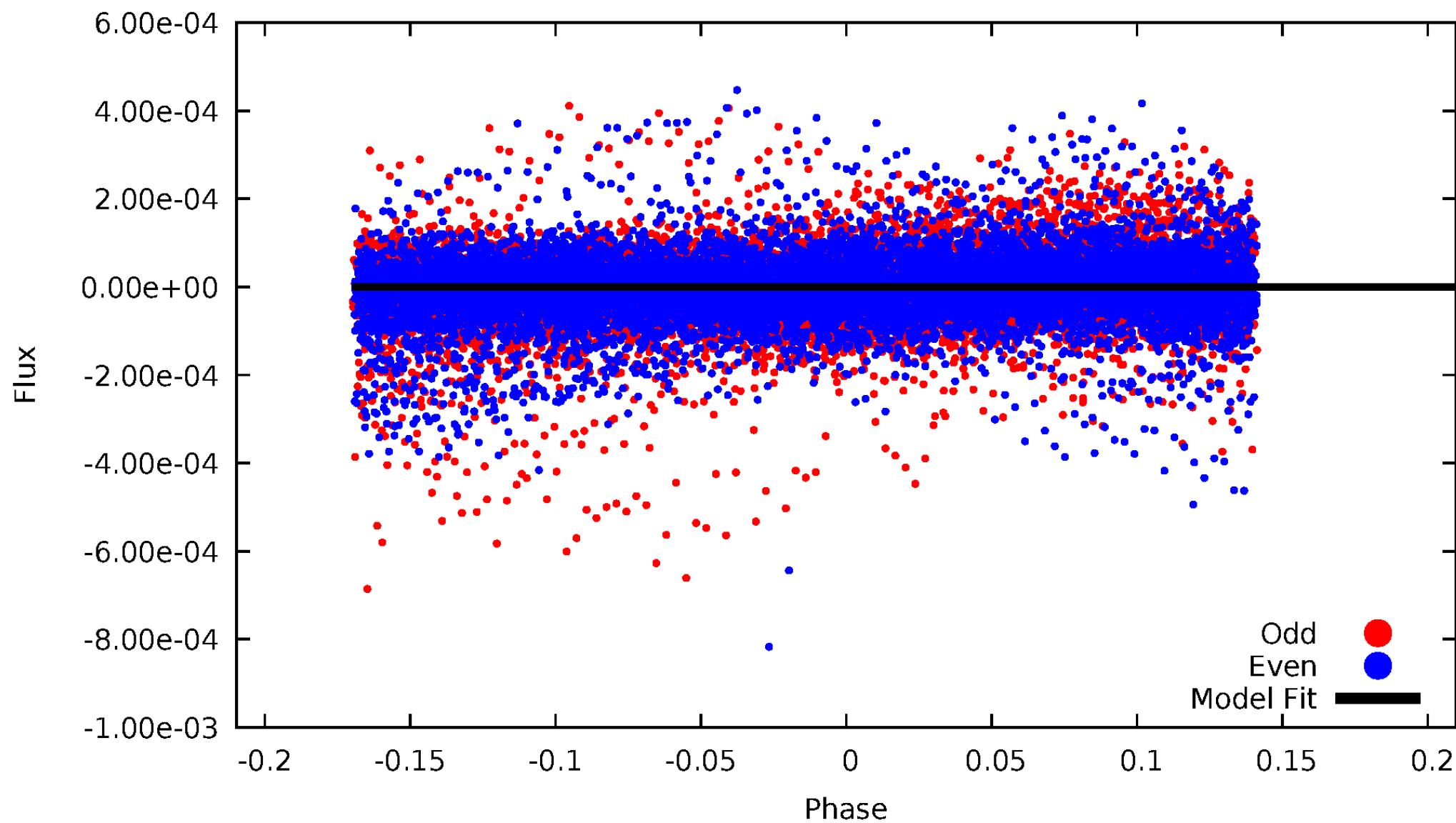


TCE 005792900-03



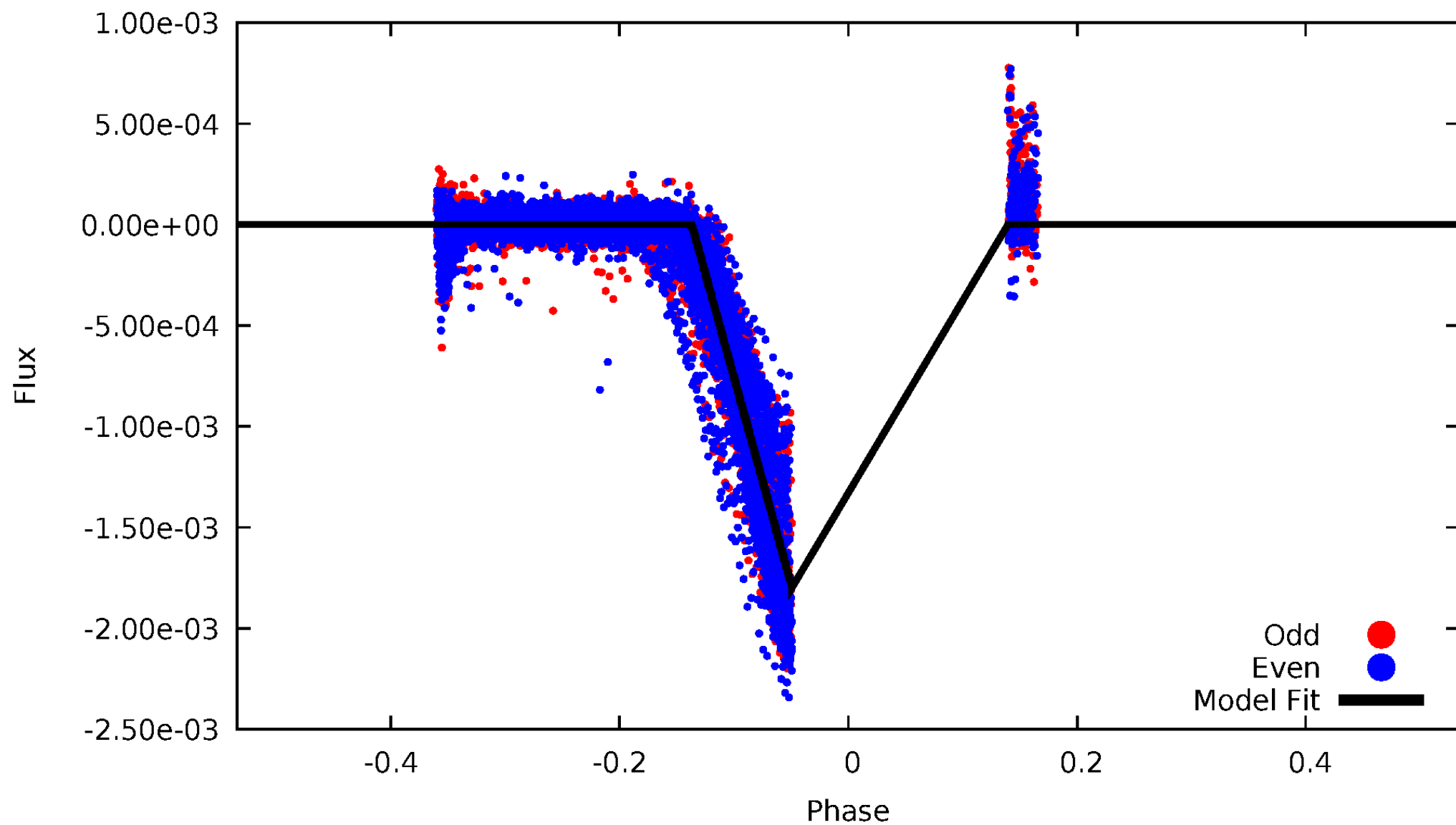
DV Odd/Even

TCE 005792900-03

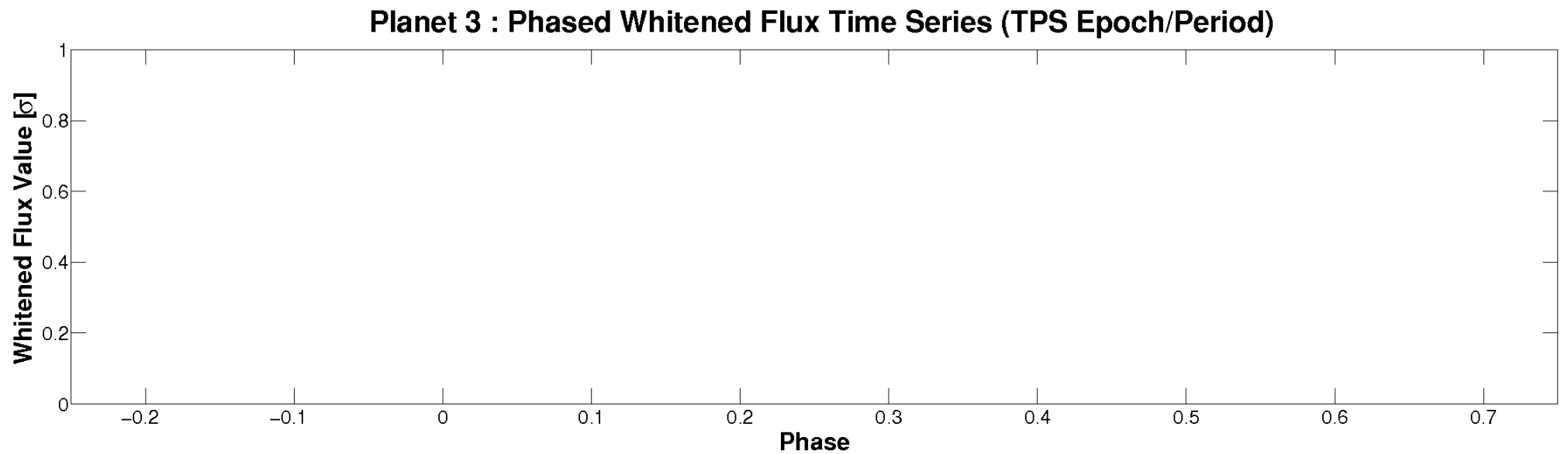
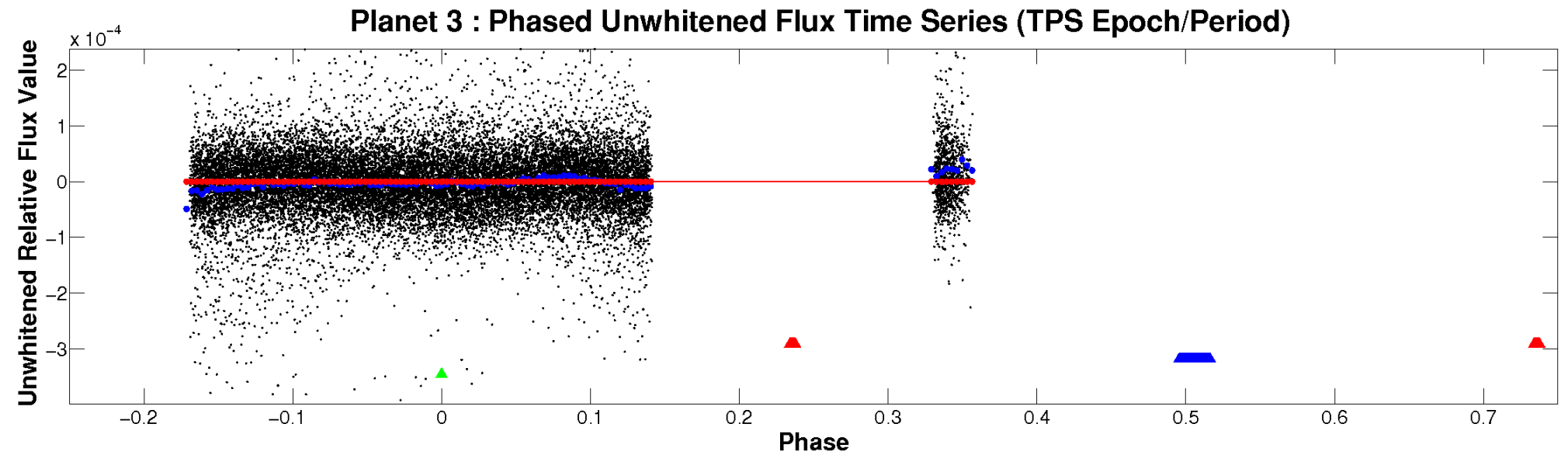


ALT Odd/Even

TCE 005792900-03

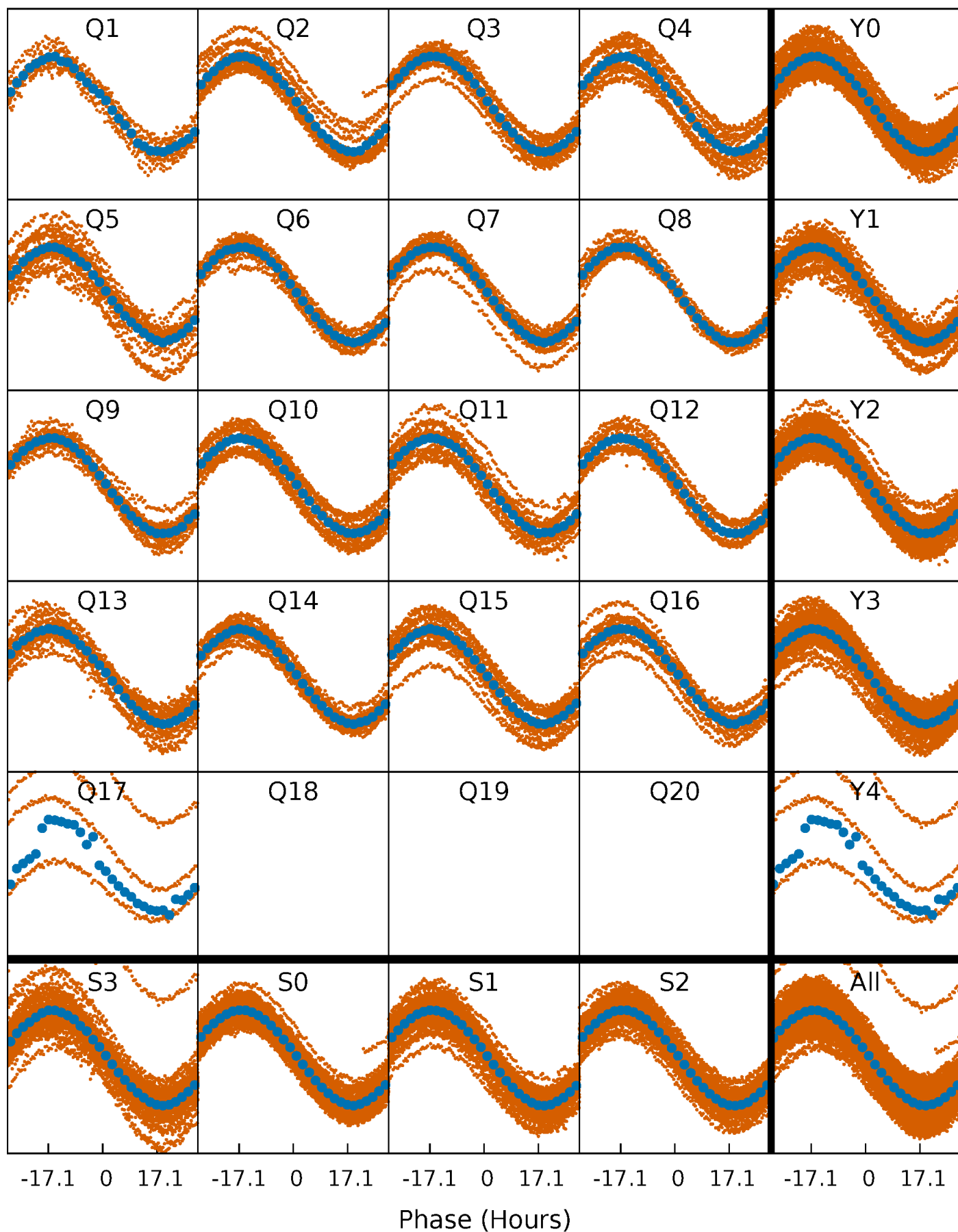


Non-Whitened Vs. Whitened Light Curve



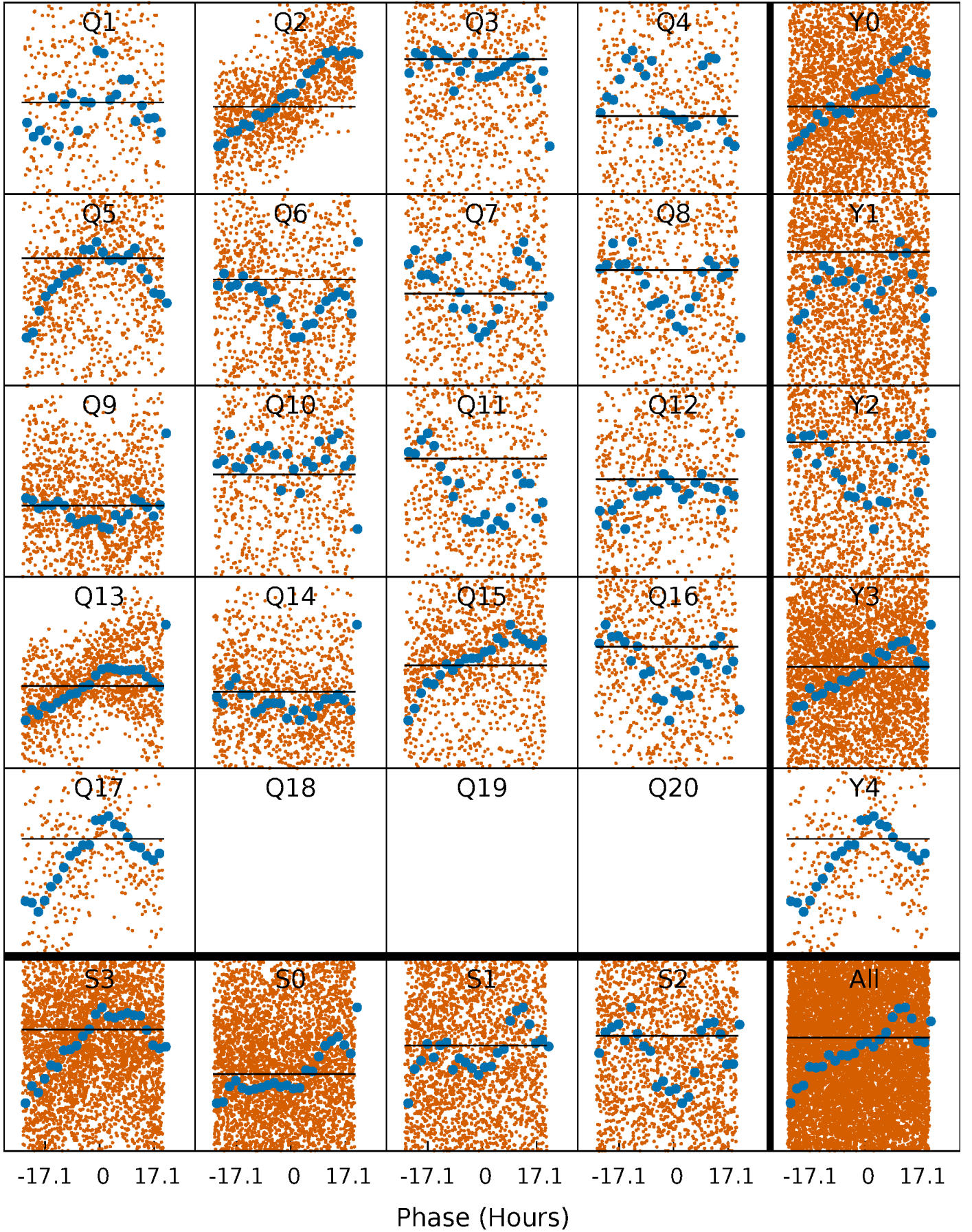
PDC Quarter-Phased Transit Curves

TCE 005792900-03 P= 5.961283 Days $T_0=133.077567$ (BKJD)



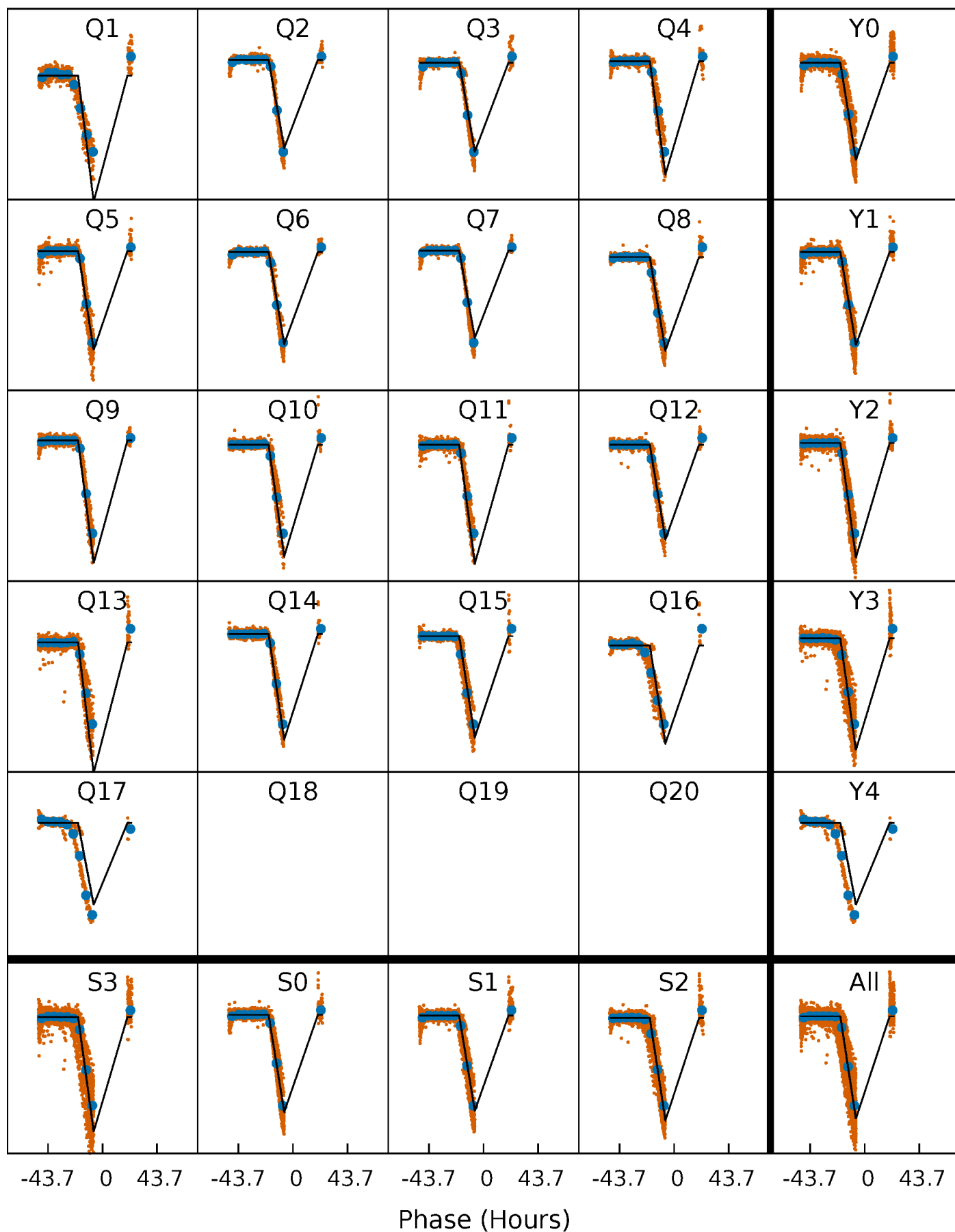
DV Quarter-Phased Transit Curves

TCE 005792900-03 P= 5.961283 Days $T_0=133.077567$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

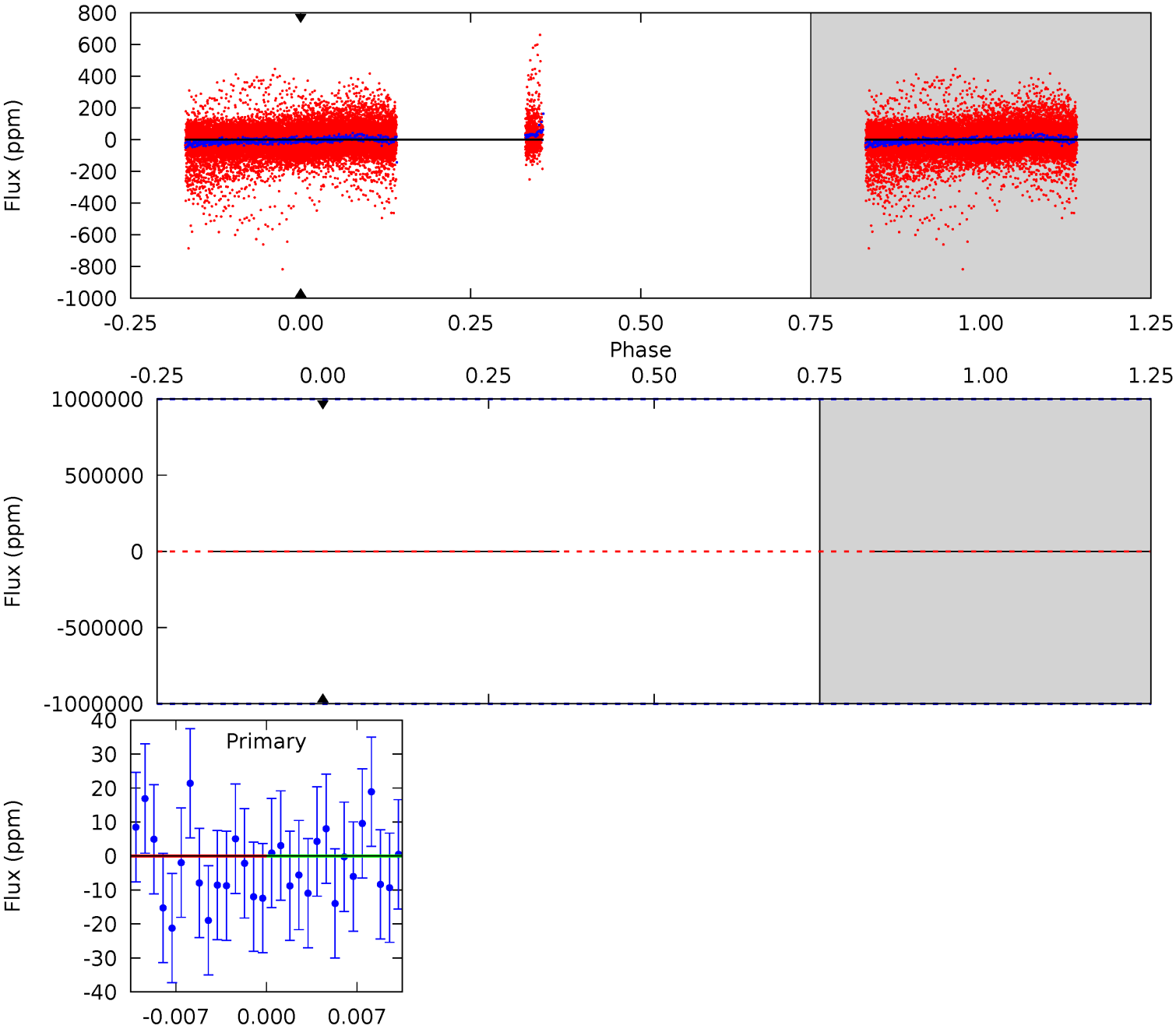
TCE 005792900-03 P= 5.961283 Days $T_0=134.213609$ (BKJD)



DV Model-Shift Uniqueness Test

005792900-03, P = 5.961283 Days, E = 127.116284 Days

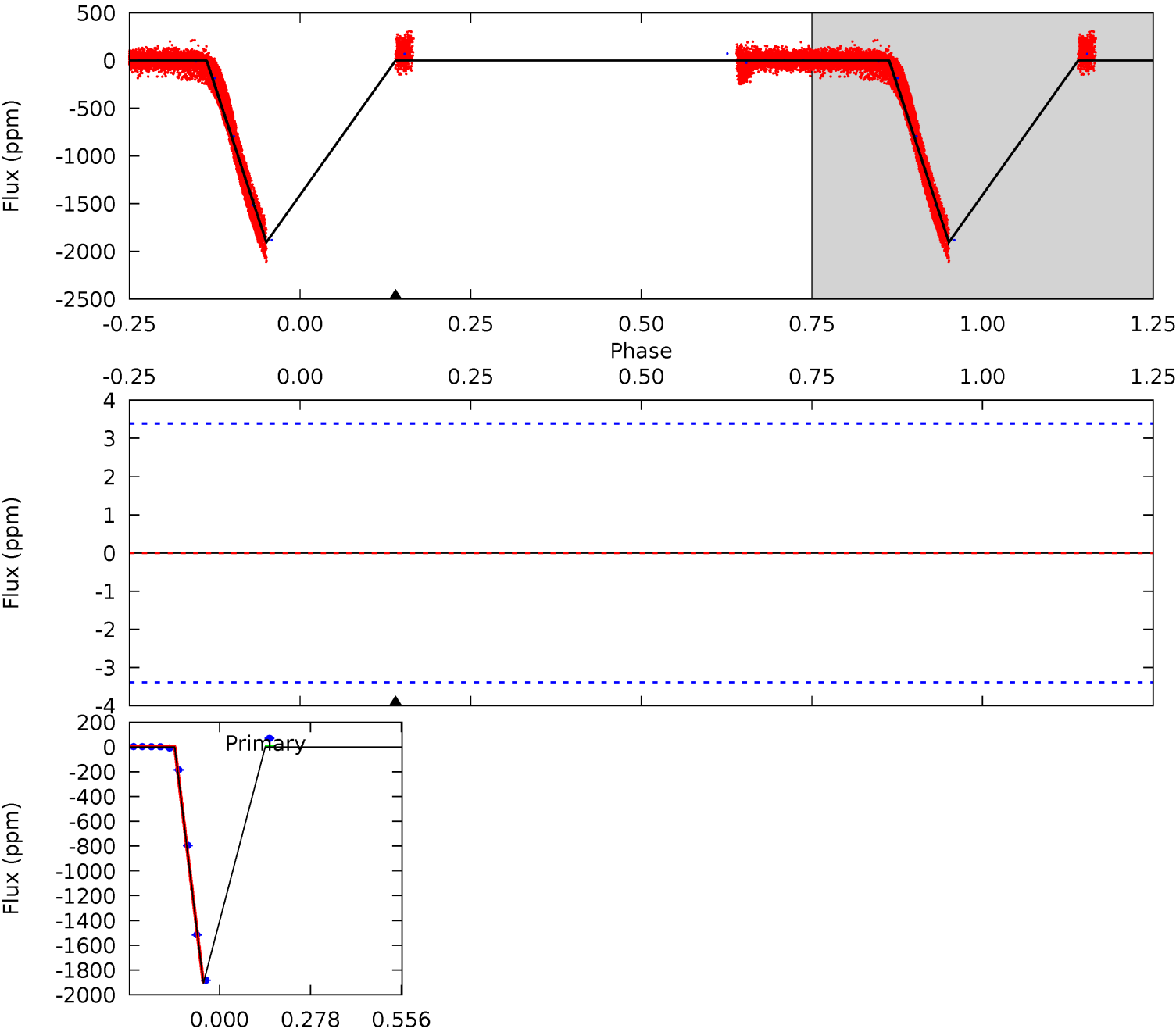
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005792900-03, P = 5.961283 Days, E = 128.252326 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	4.35	1.08	0	0	0	0	0	0	0	0	0



Stellar Parameters For KIC 005792900

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8529^{+462}_{-693}	$3.769^{+0.408}_{-0.128}$	$-0.180^{+0.250}_{-0.150}$	$3.065^{+0.730}_{-1.355}$	$2.017^{+0.384}_{-0.423}$	$0.099^{+0.334}_{-0.039}$
	+5%/-8%	+11%/-3%	+139%/-83%	+24%/-44%	+19%/-21%	+338%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005792900-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$21.35^{+24.63}_{-15.02}$	3098^{+332}_{-399}	3111^{+67472}_{-60437}	$0.714^{+1518.625}_{-1297.029}$
Alt.	0 ± 1	$24.92^{+25.72}_{-16.45}$	3115^{+334}_{-380}	-3087^{+226}_{-188}	$-0.000^{+0.008}_{-0.007}$

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

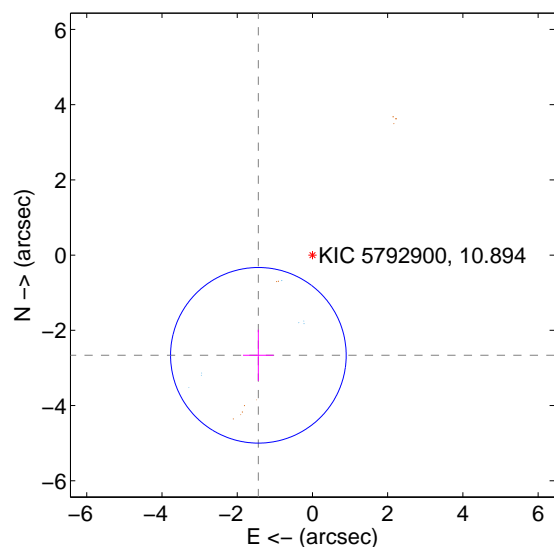
Supplemental centroid analysis for 005792900-03. **Kepler magnitude: 10.89.** Transit SNR -1.00

There are 7 quarters with good PRF difference image offsets

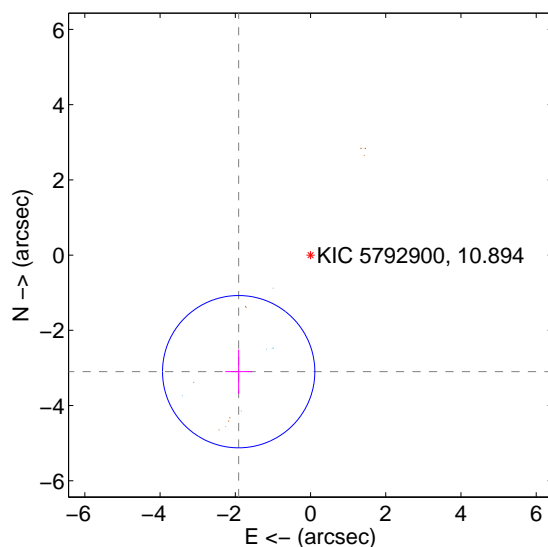
The direct PRF centroid is offset from the target star catalog position by about 0.47 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.028 \pm 0.778	3.89	1.438 \pm 0.408	-2.664 \pm 0.680
PRF-fit source offset from KIC position	3.641 \pm 0.675	5.40	1.910 \pm 0.358	-3.100 \pm 0.590
photometric centroid source offset	0.21 \pm 0.01	22.29	0.11 \pm 0.01	0.18 \pm 0.01

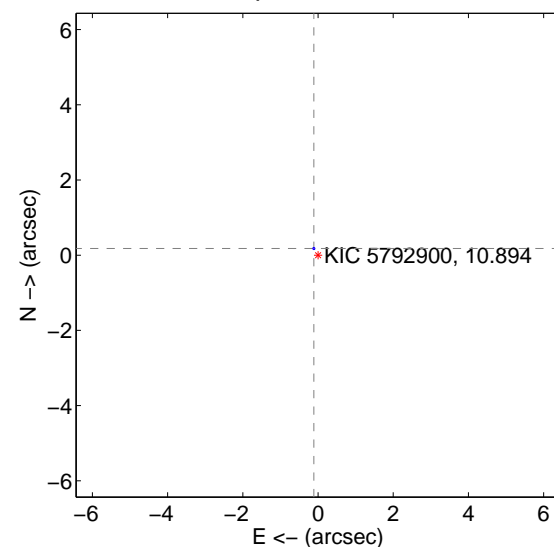
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

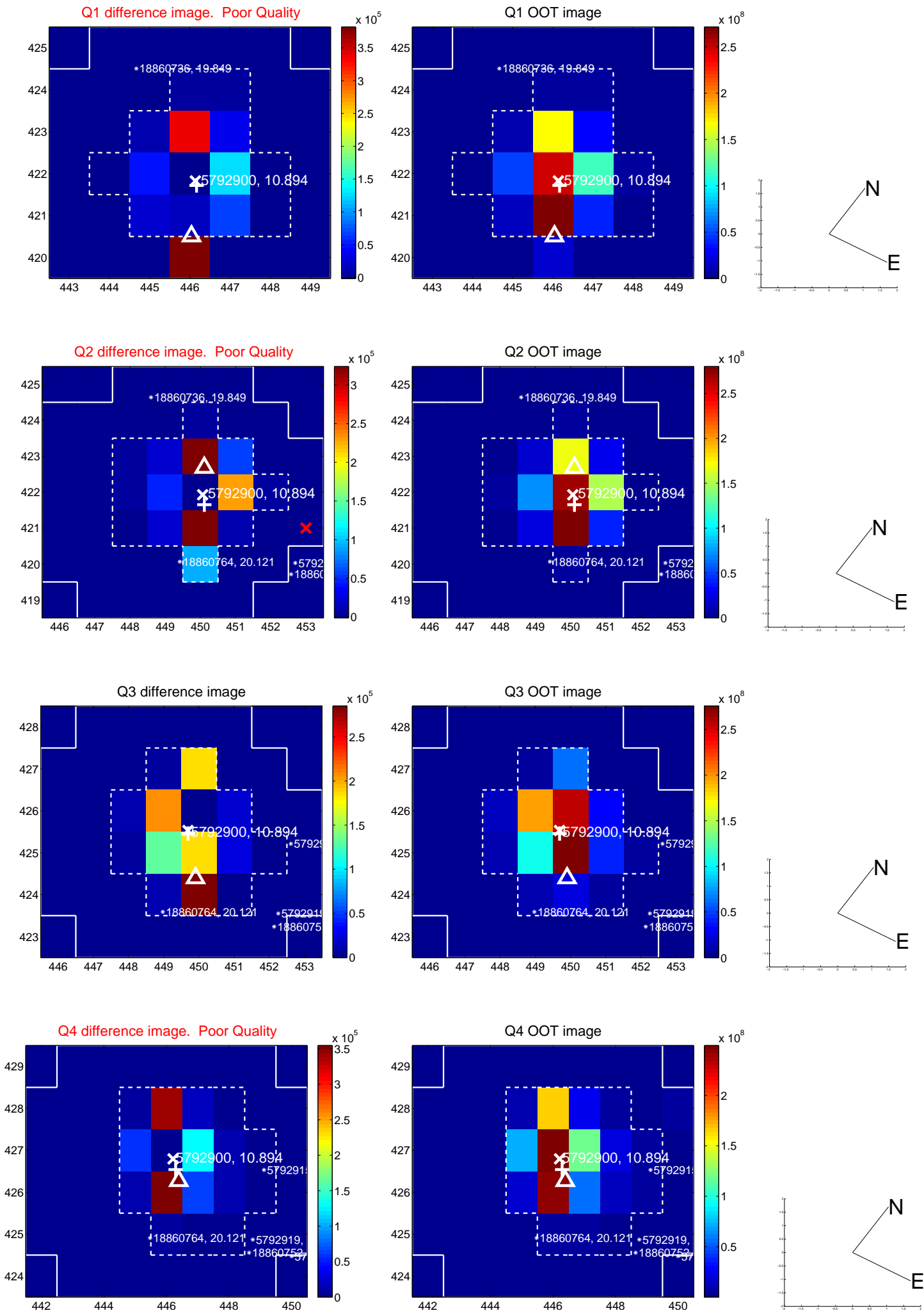


offset from photometric centroids

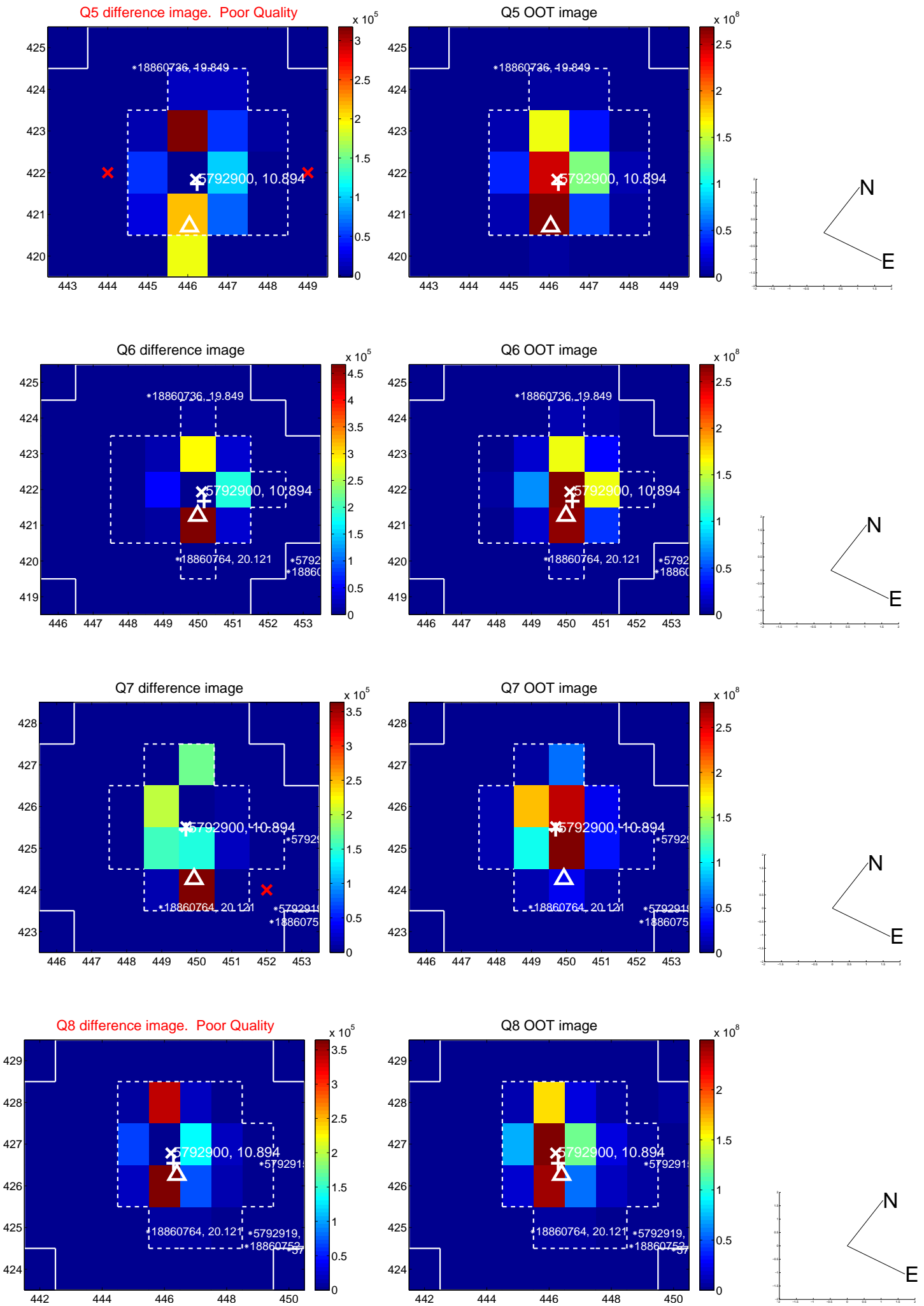


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

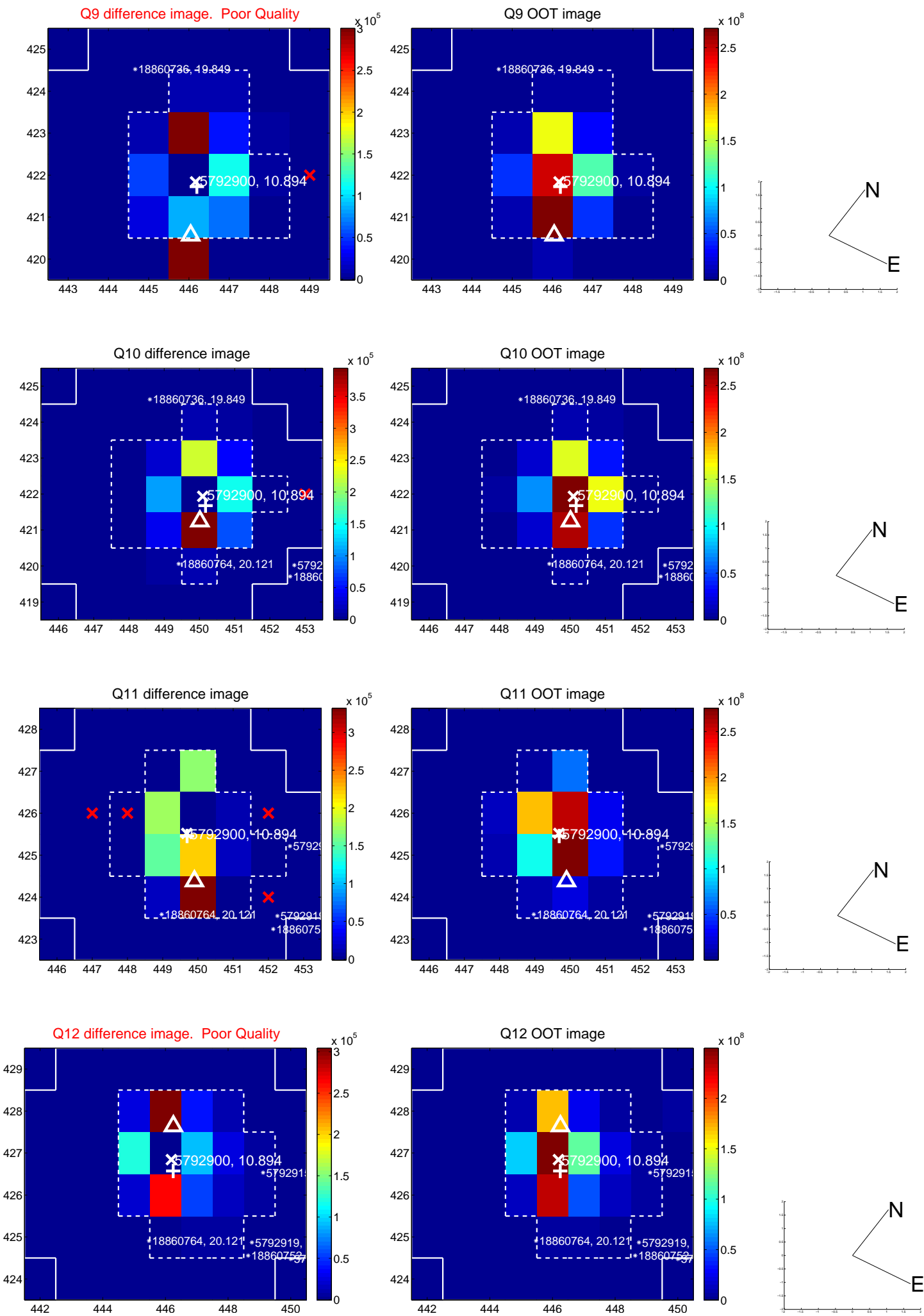
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



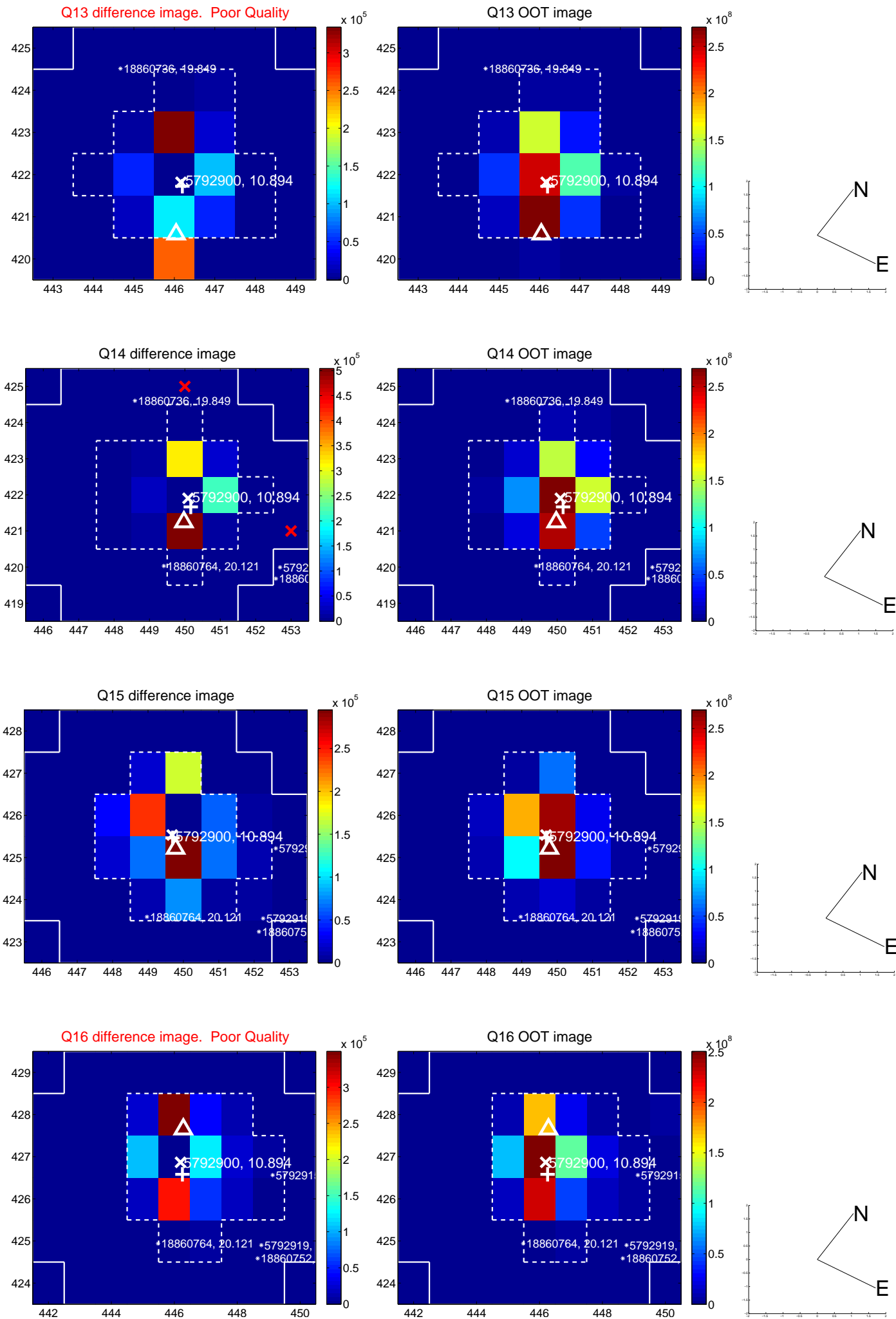
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



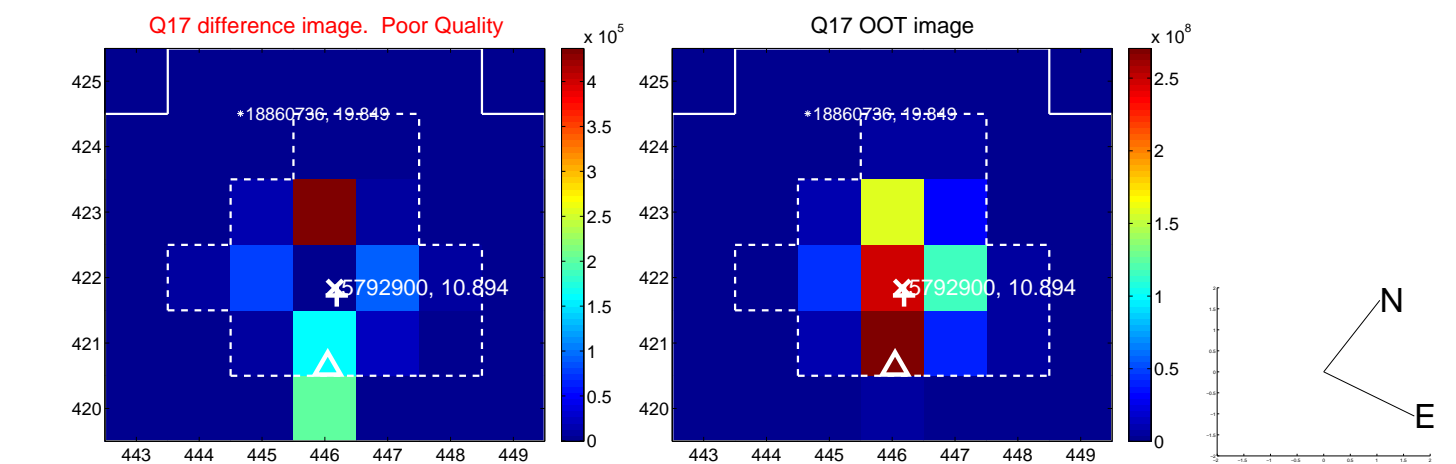
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



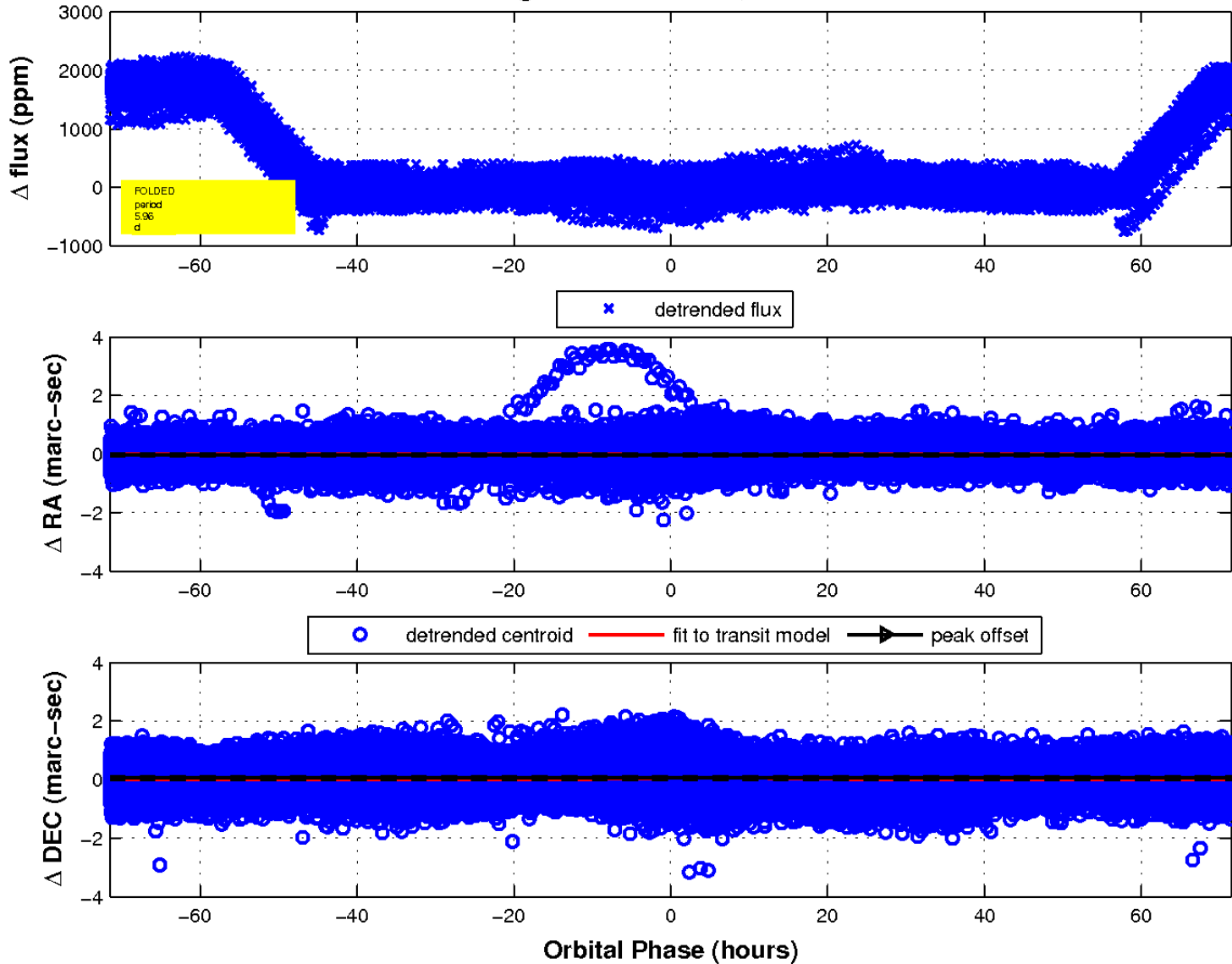
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

