

KIC 006967360

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})
006967360-01	OBS	No	0.715321	131.662930	92.8	2.699	8.0	7.9	3.22	8319	3.62	112654.49
006967360-02	OBS	No	152.194522	159.997016	1877.1	3.513	7.7	8.0	3.22	8319	25.52	88.69
006967360-03	OBS	No	19.711673	143.021814	705.3	1.798	7.6	7.6	3.22	8319	9.76	1353.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006967360-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006967360-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006967360-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

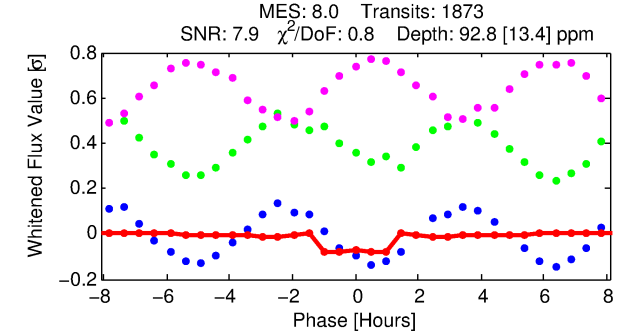
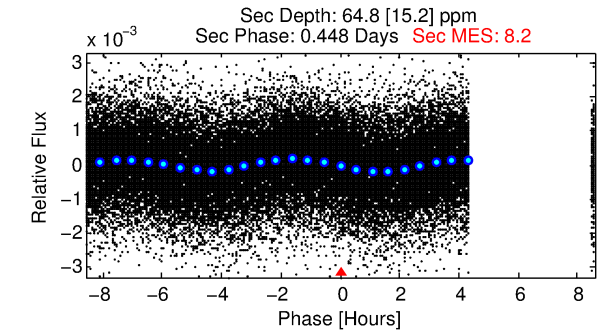
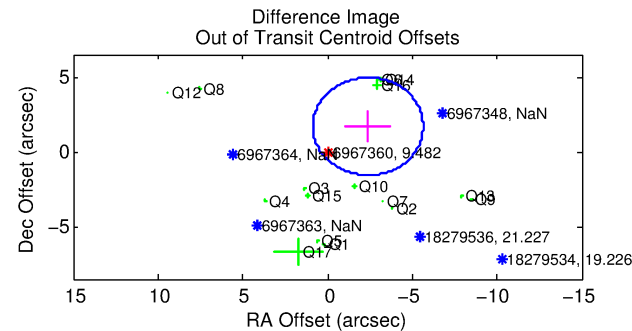
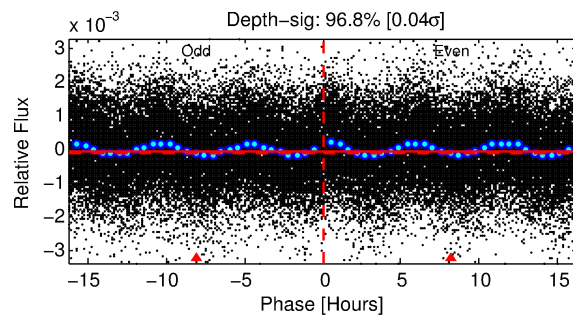
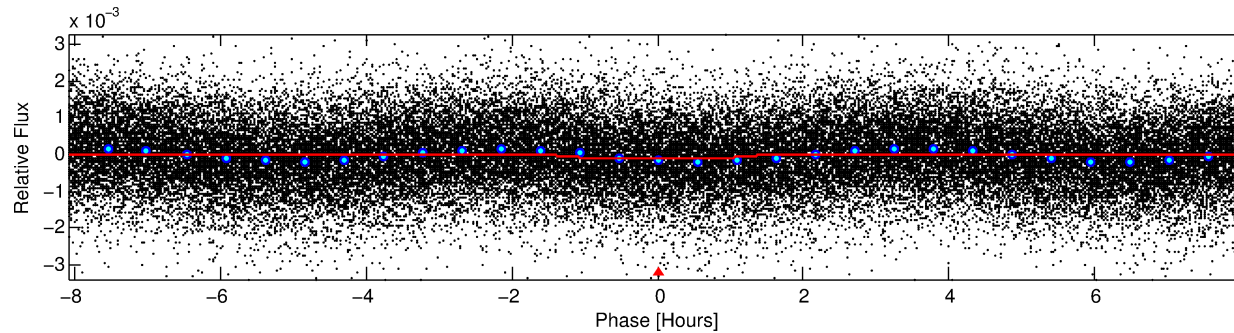
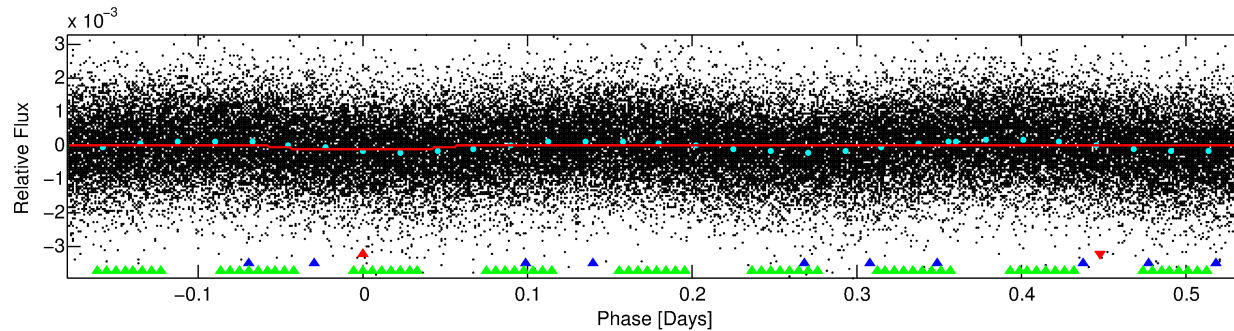
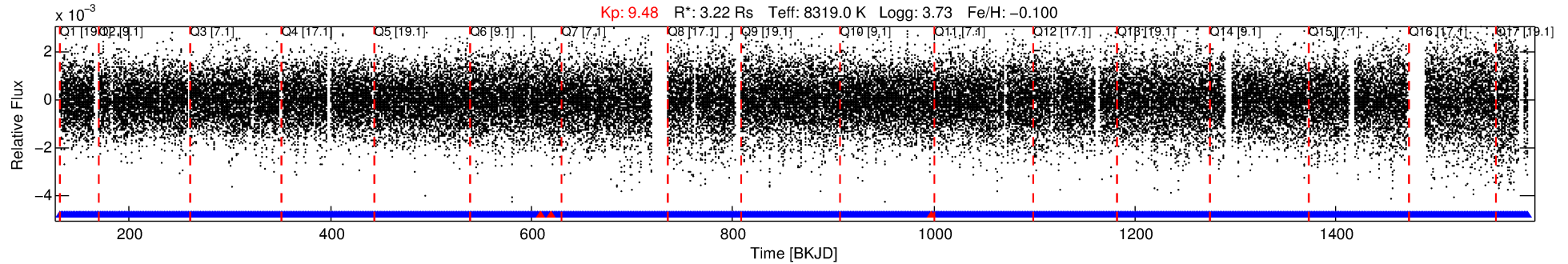
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006967360-01

No Significant Match Found

DV One-Page Summary

KIC: 6967360 Candidate: 1 of 3 Period: 0.715 d



DV Fit Results:

Period = 0.71532 [0.00001] d
Epoch = 131.6629 [0.0027] BKJD
 $R_p/R^* = 0.0103$ [0.0037]
 $a/R^* = 1.31$ [1.25]
 $b = 0.91$ [0.46]
 $\text{Seff} = 112654.49$ [82803.53]
 $T_{\text{eq}} = 4672$ [858] K
 $R_p = 3.62$ [2.10] R_e
 $a = 0.0199$ [0.0088] AU
 $\text{Ag} = 1.07$ [1.12] [0.07 σ]
 $T_{\text{eff}} = 7353$ [1431] K [1.61 σ]

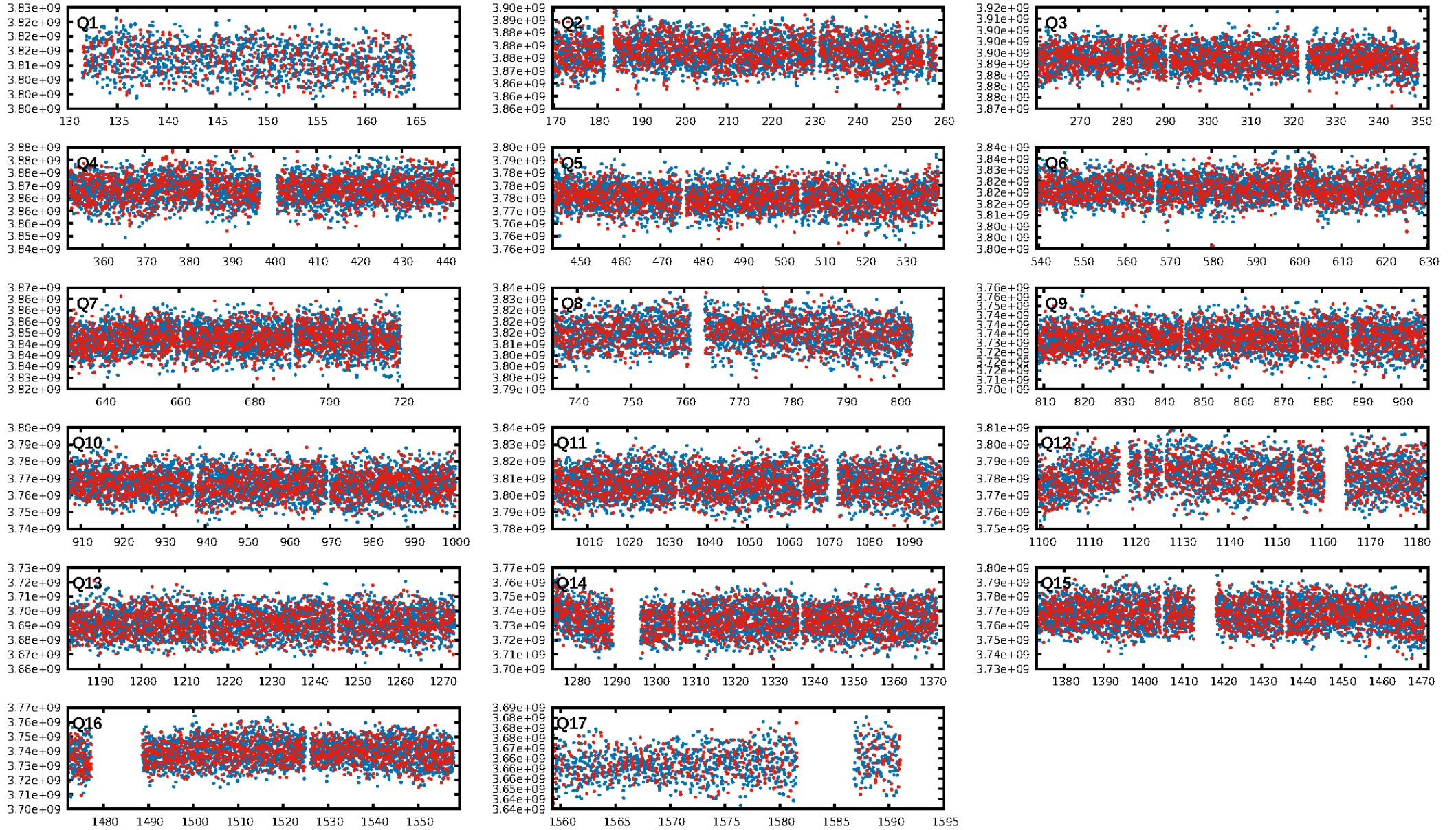
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [140.56 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.60e-12
RollingBand-fgt: 1.00 [1785/1788]
GhostDiagnostic-chr: N/A
Centroid-sig: 10.9%
Centroid-so: 0.447 arcsec [1.81 σ]
OotOffset-rm: 2.915 arcsec [2.68 σ]
KicOffset-rm: 3.278 arcsec [3.25 σ]
OotOffset-st: 4/3/4/5 [16]
KicOffset-st: 4/3/4/5 [16]
DiffImageQuality-fgm: 0.00 [0/16]
DiffImageOverlap-fno: 1.00 [17/17]

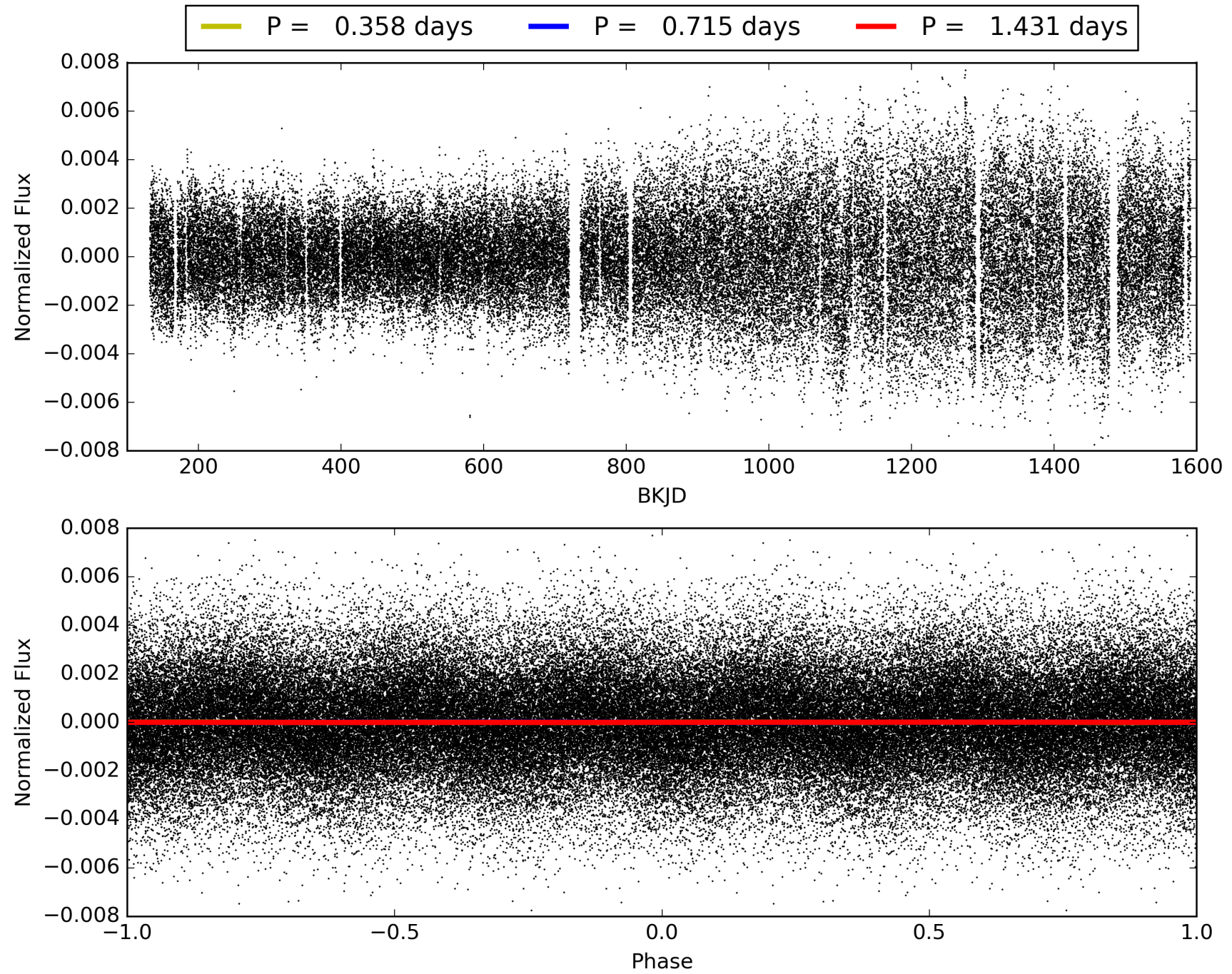
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:27:32 Z

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

TCE 006967360-01, PDC Light Curves

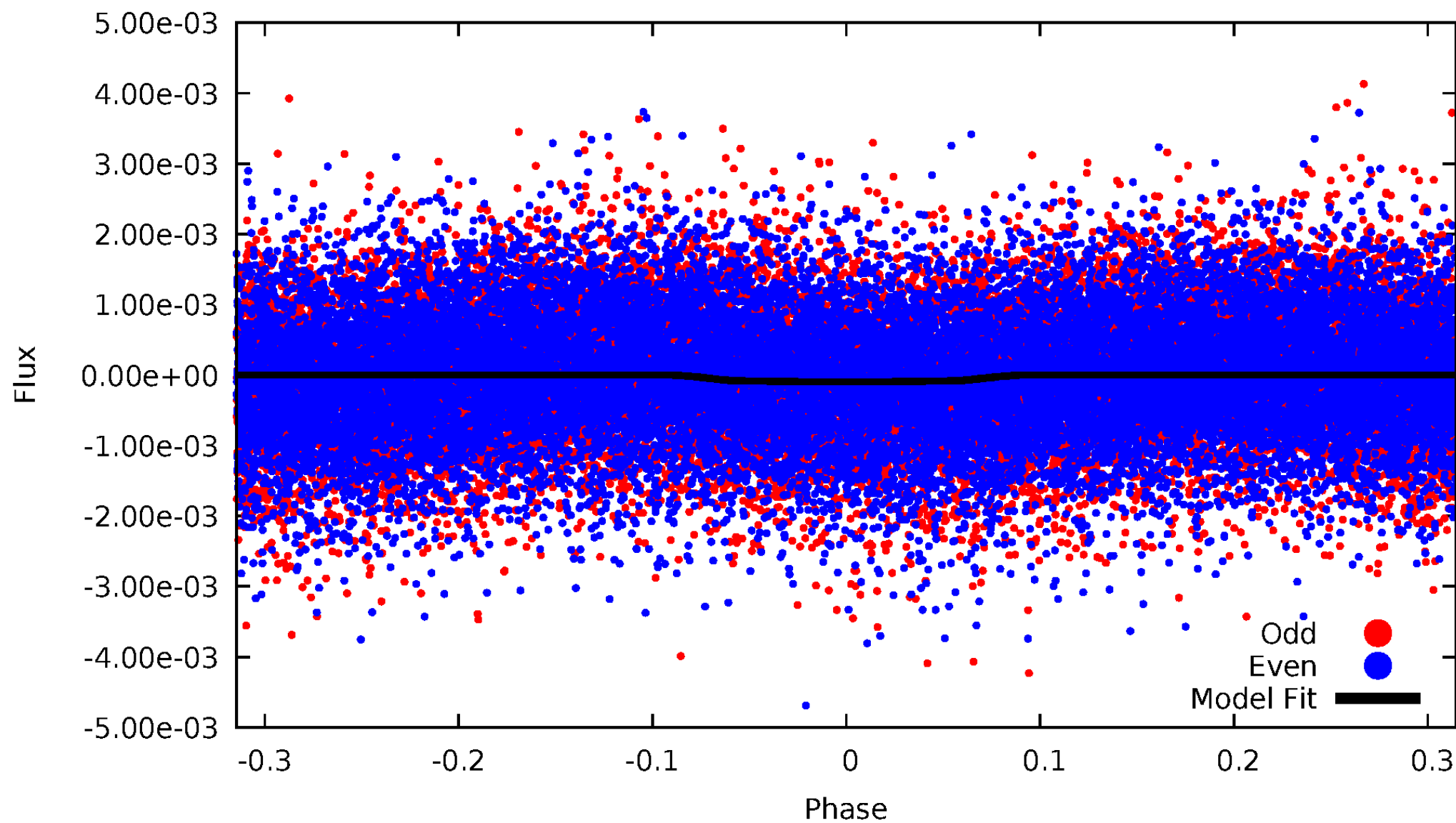


TCE 006967360-01



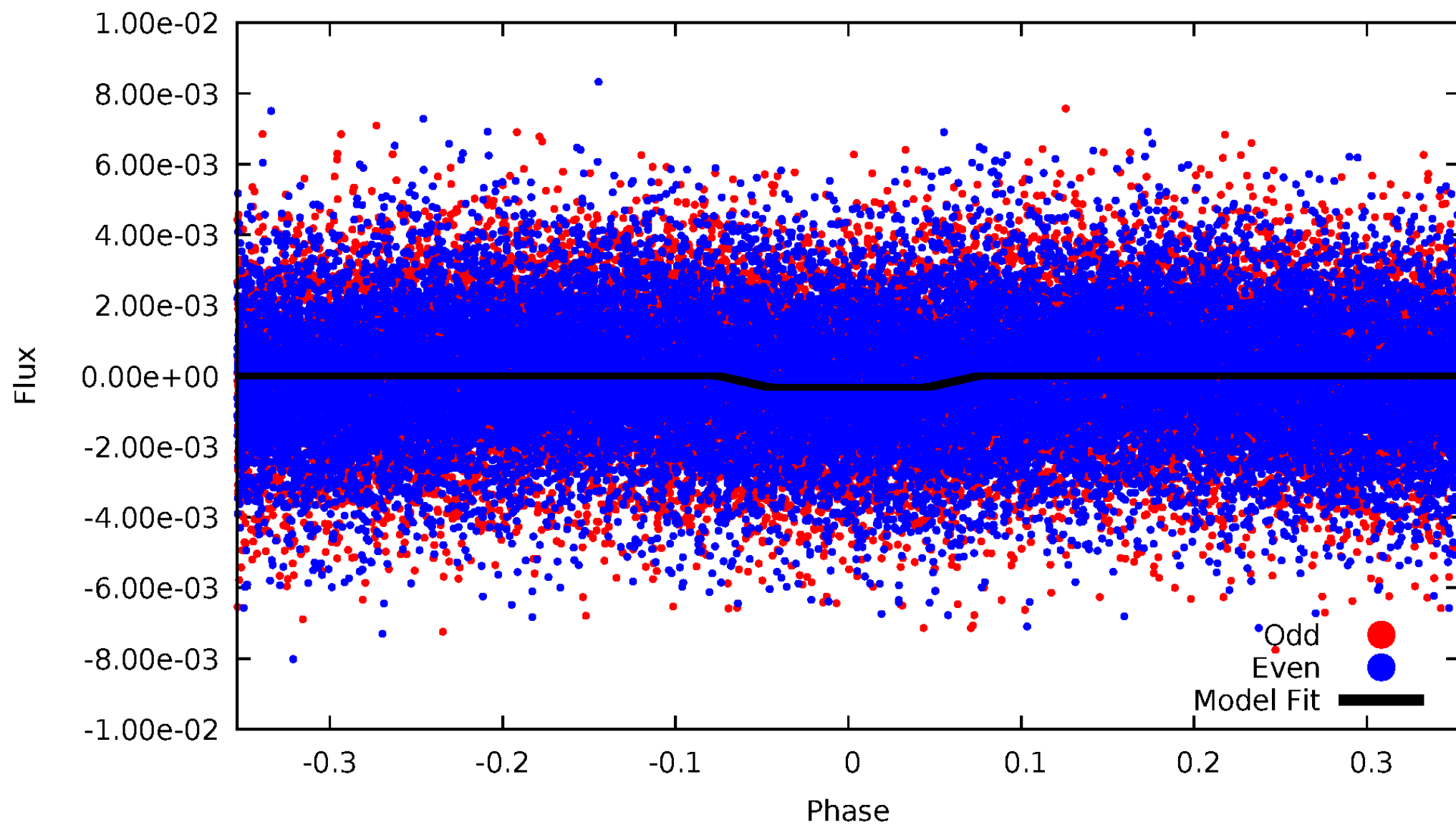
DV Odd/Even

TCE 006967360-01

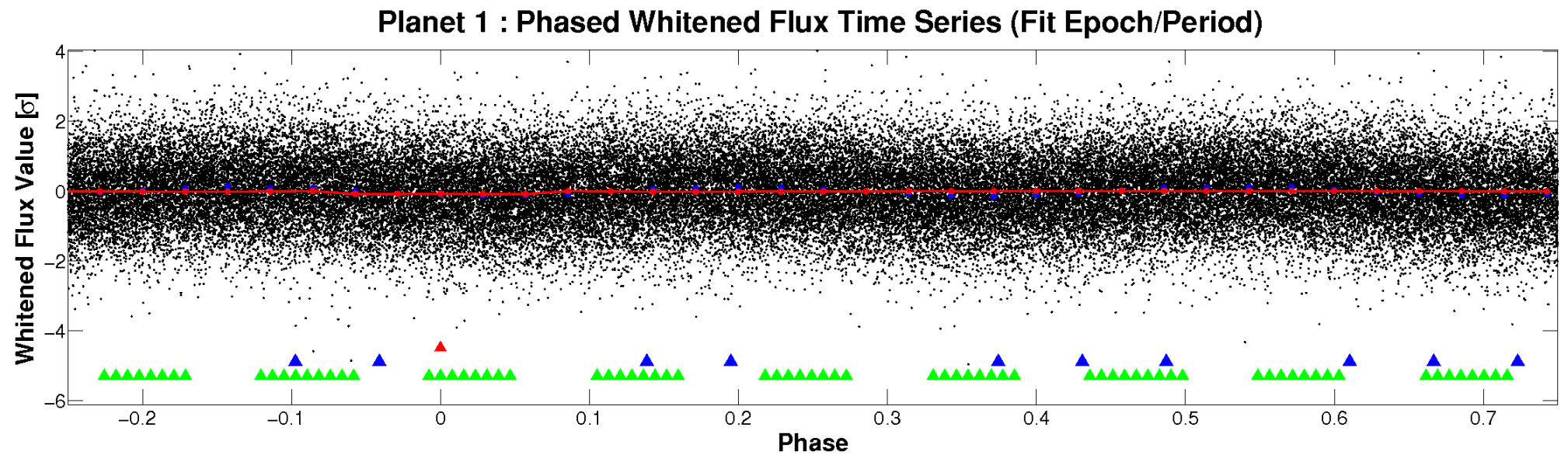
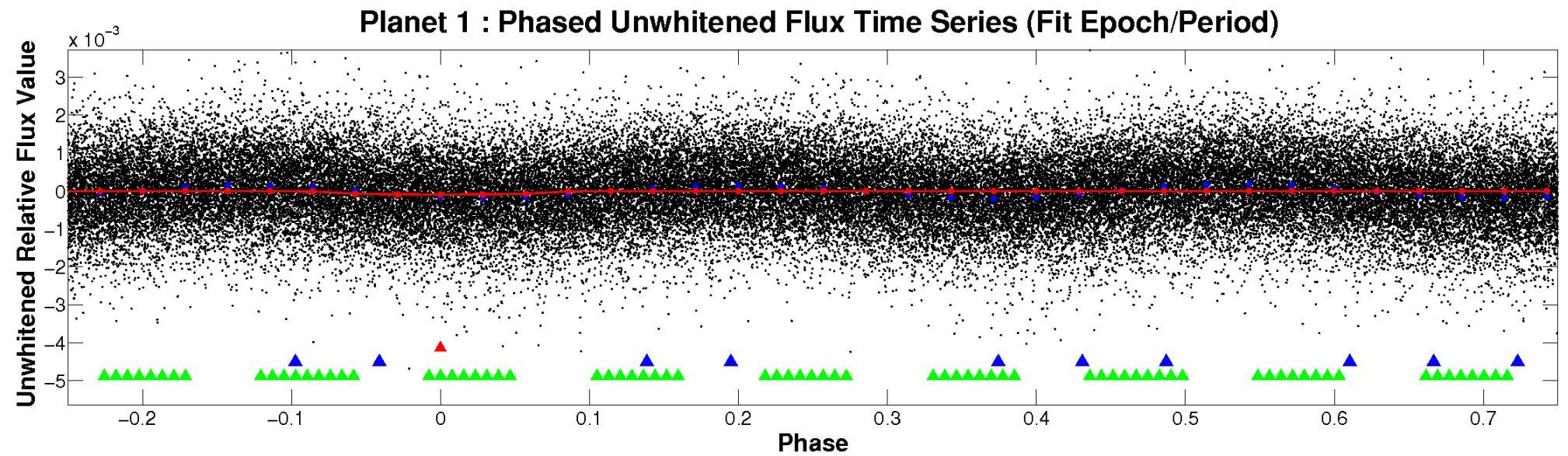


ALT Odd/Even

TCE 006967360-01

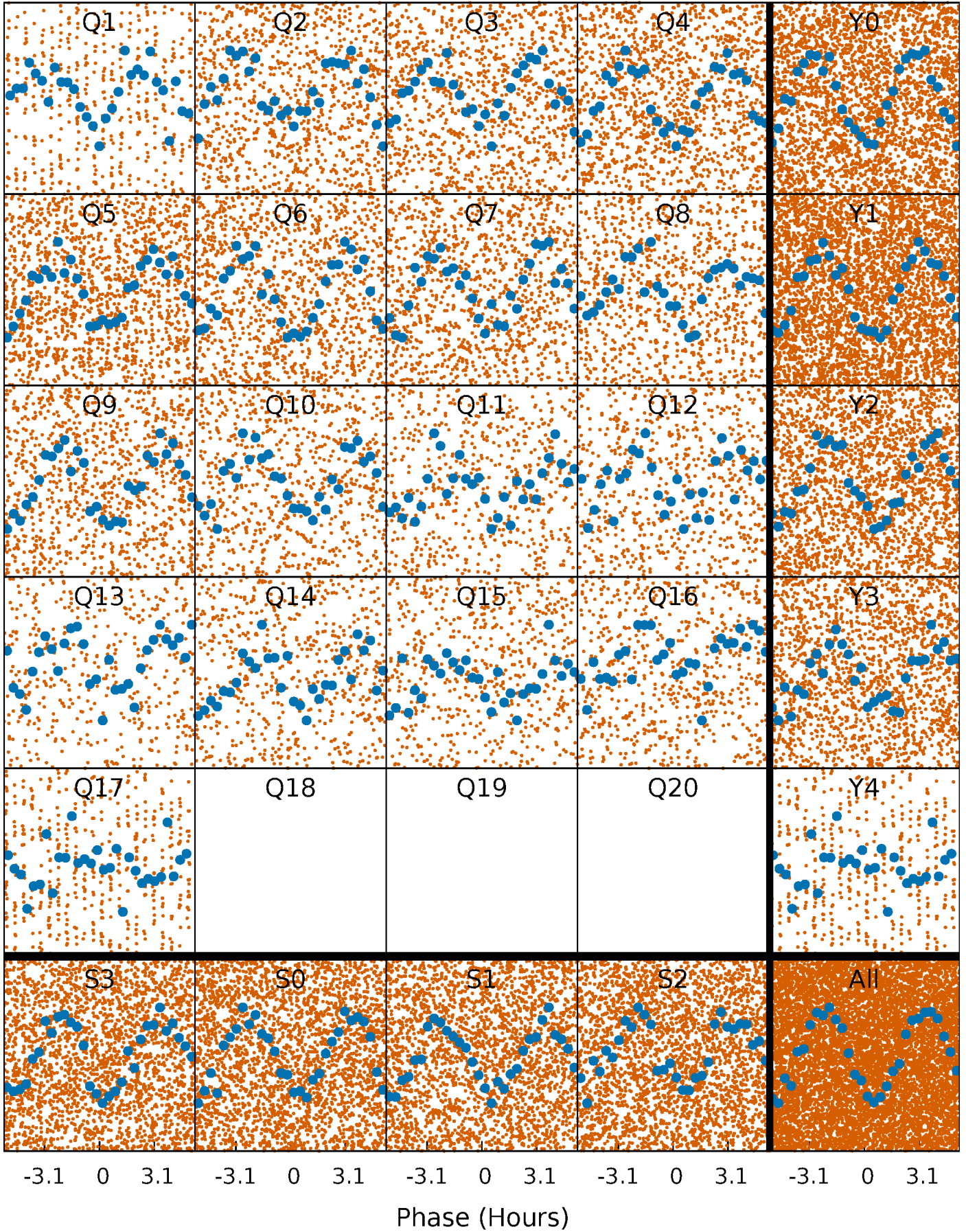


Non-Whitened Vs. Whitened Light Curve



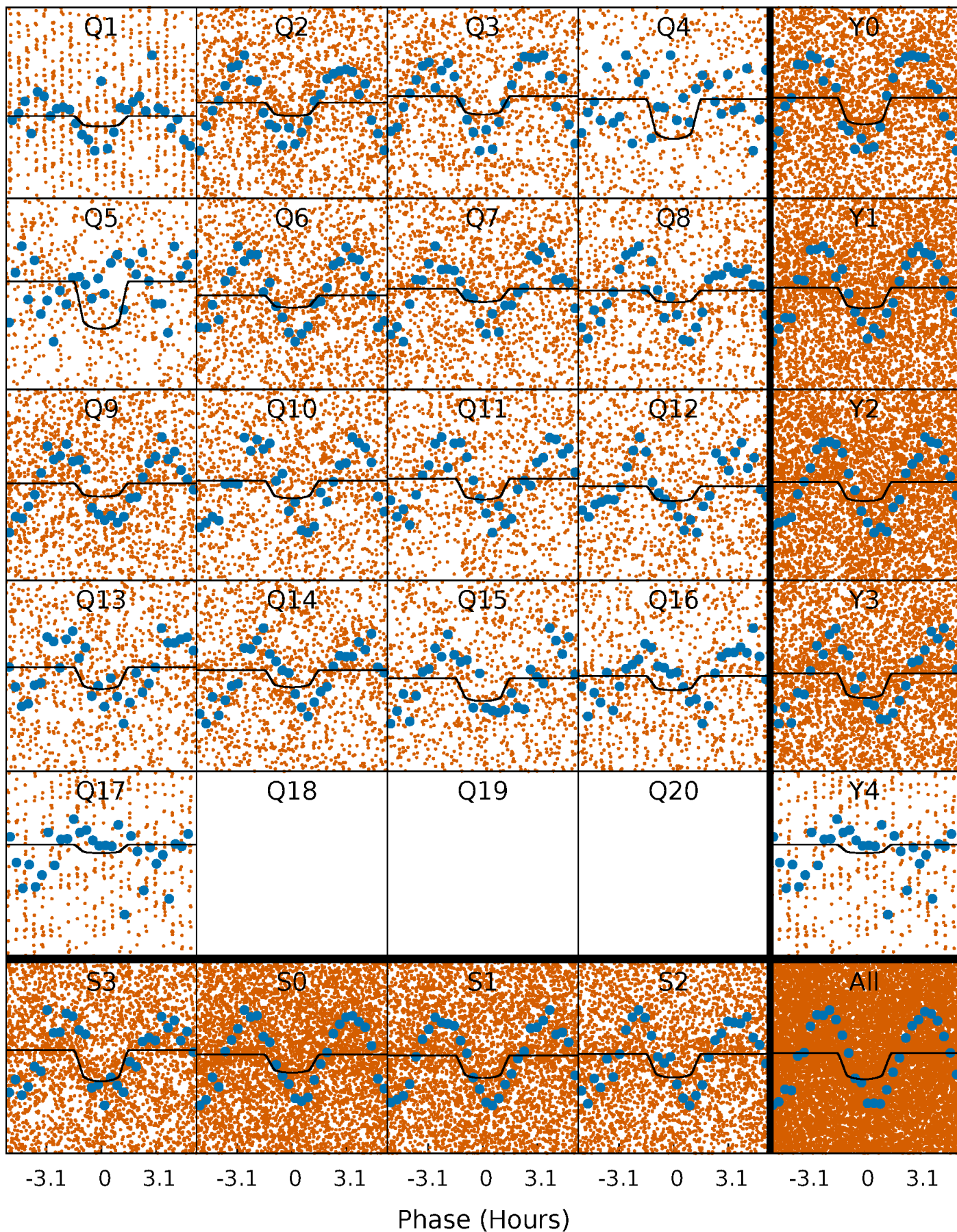
PDC Quarter-Phased Transit Curves

TCE 006967360-01 P= 0.715321 Days $T_0=131.662930$ (BKJD)



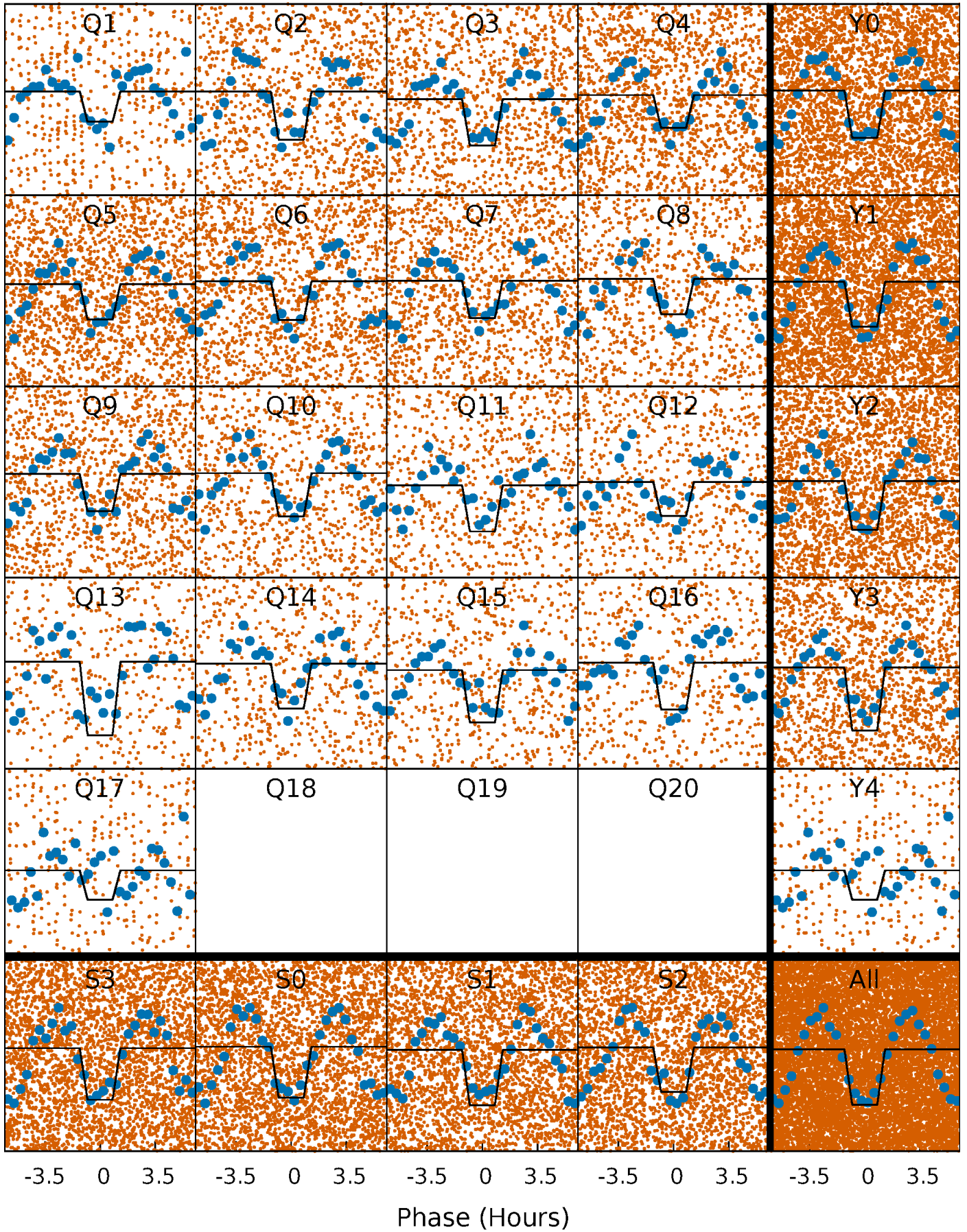
DV Quarter-Phased Transit Curves

TCE 006967360-01 P= 0.715321 Days $T_0=131.662930$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

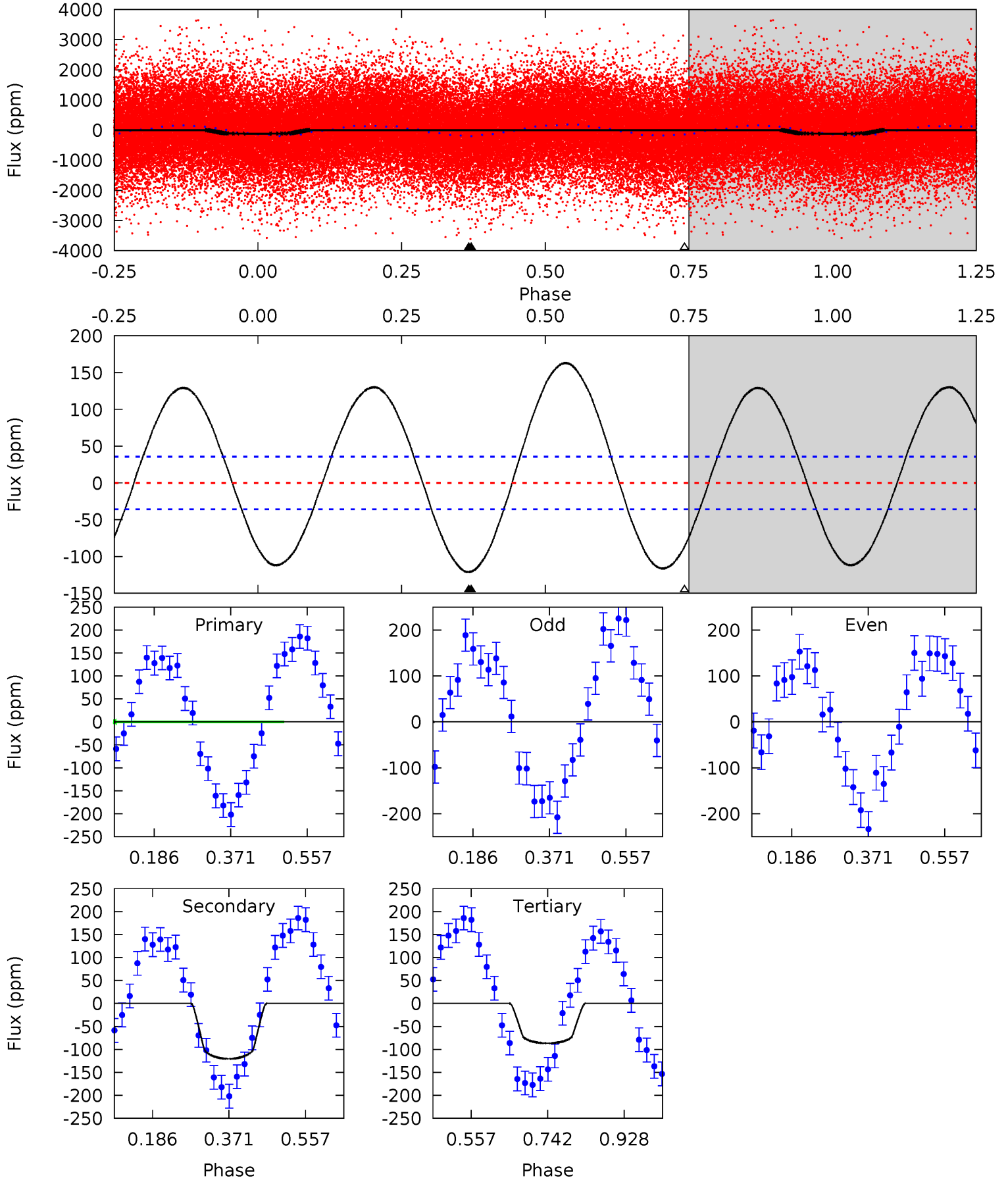
TCE 006967360-01 P= 0.715352 Days $T_0=131.658900$ (BKJD)



DV Model-Shift Uniqueness Test

006967360-01, P = 0.715321 Days, E = 130.947609 Days

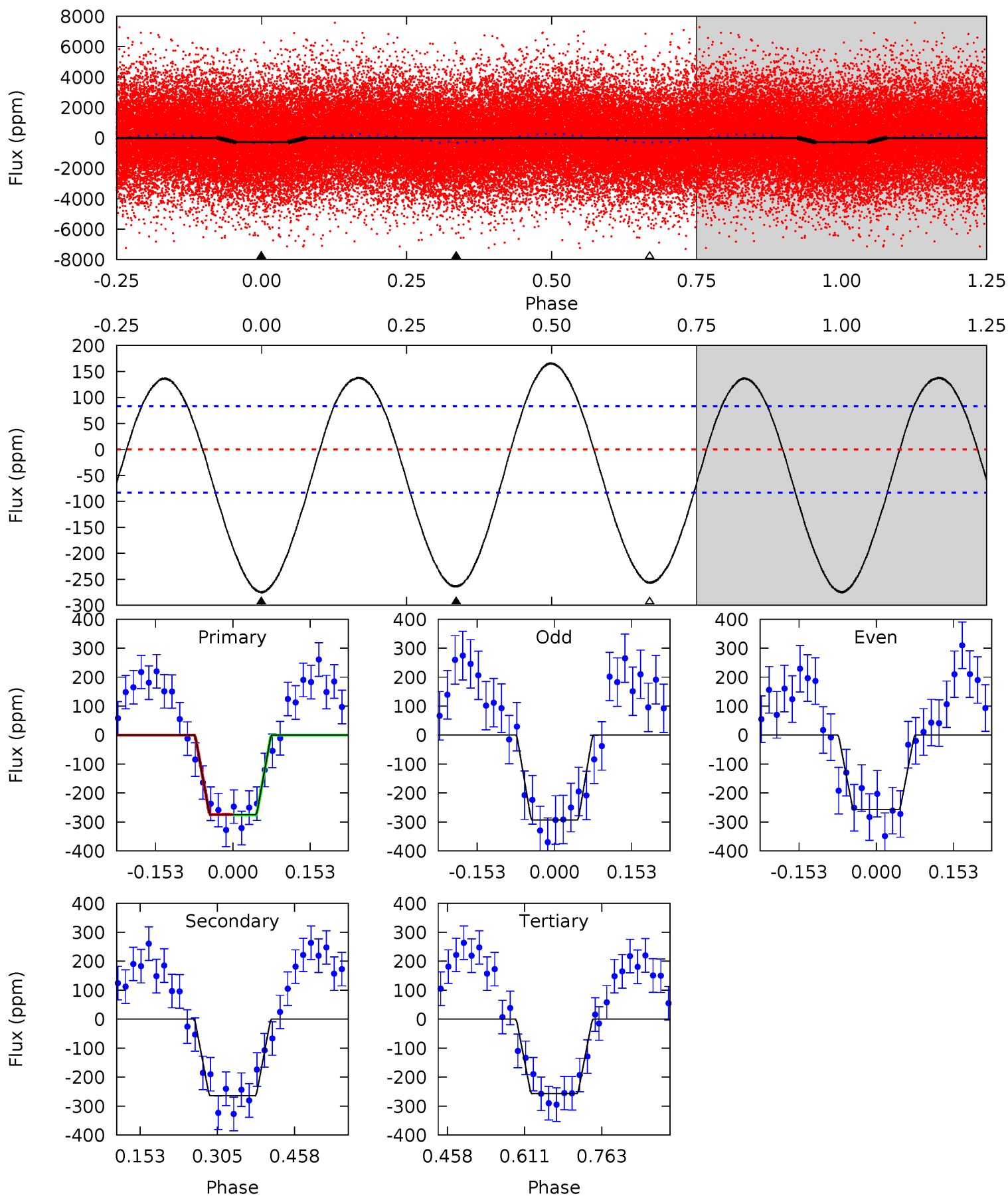
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.1	15.0	10.8	0	4.43	1.32	10.6	4.30	15.1	4.20	15.0	0.03	1.40	0.57	8.13



Alt Model-Shift Uniqueness Test

006967360-01, P = 0.715352 Days, E = 130.943548 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.8	14.2	13.8	0	4.48	1.43	8.02	0.99	14.8	0.38	14.2	0.99	1.14	0.38	0.03



Stellar Parameters For KIC 006967360

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8319^{+230}_{-374}	$3.733^{+0.420}_{-0.140}$	$-0.100^{+0.300}_{-0.400}$	$3.220^{+0.978}_{-1.467}$	$2.046^{+0.387}_{-0.473}$	$0.086^{+0.349}_{-0.036}$
	+3%/-4%	+11%/-4%	+300%/-400%	+30%/-46%	+19%/-23%	+404%/-42%
Source	KIC0	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 006967360-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-121 ± 8	$3.25^{+1.67}_{-1.34}$	6290^{+587}_{-777}	8194^{+3632}_{-1645}	$2.453^{+4.499}_{-1.327}$
Alt.	-264 ± 19	$5.82^{+1.69}_{-1.77}$	6277^{+580}_{-710}	7319^{+1458}_{-928}	$1.709^{+1.591}_{-0.690}$

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 $A_{obs} \gg 1.0$

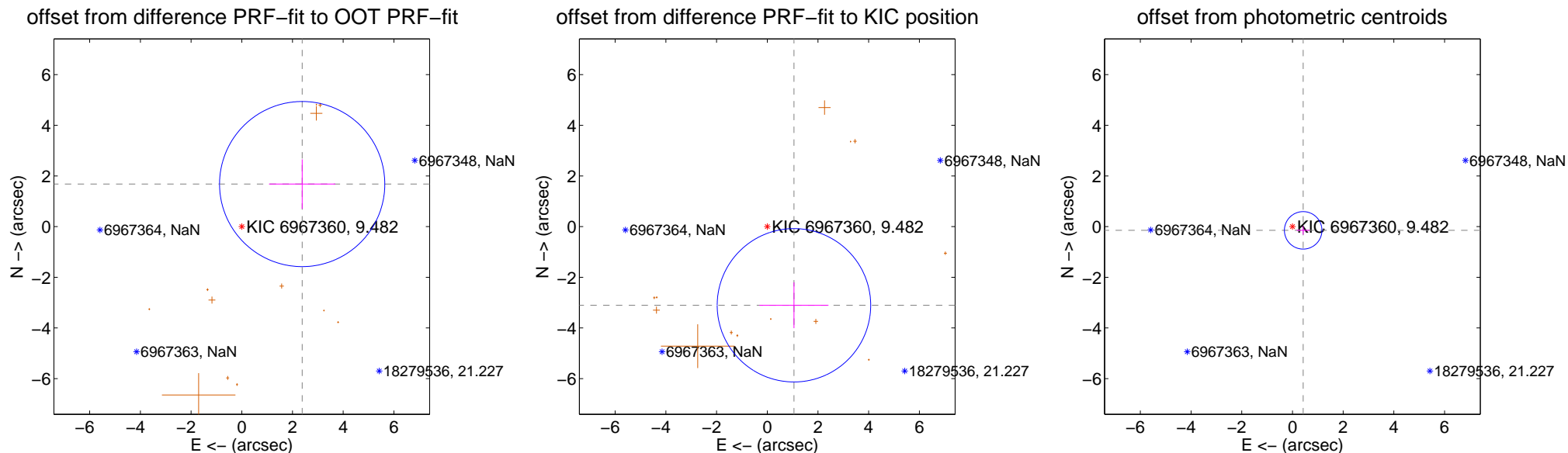
DV Centroid Data

Supplemental centroid analysis for 006967360-01. **Kepler magnitude: 9.48.** Transit SNR 7.86

There are 0 quarters with good PRF difference image offsets

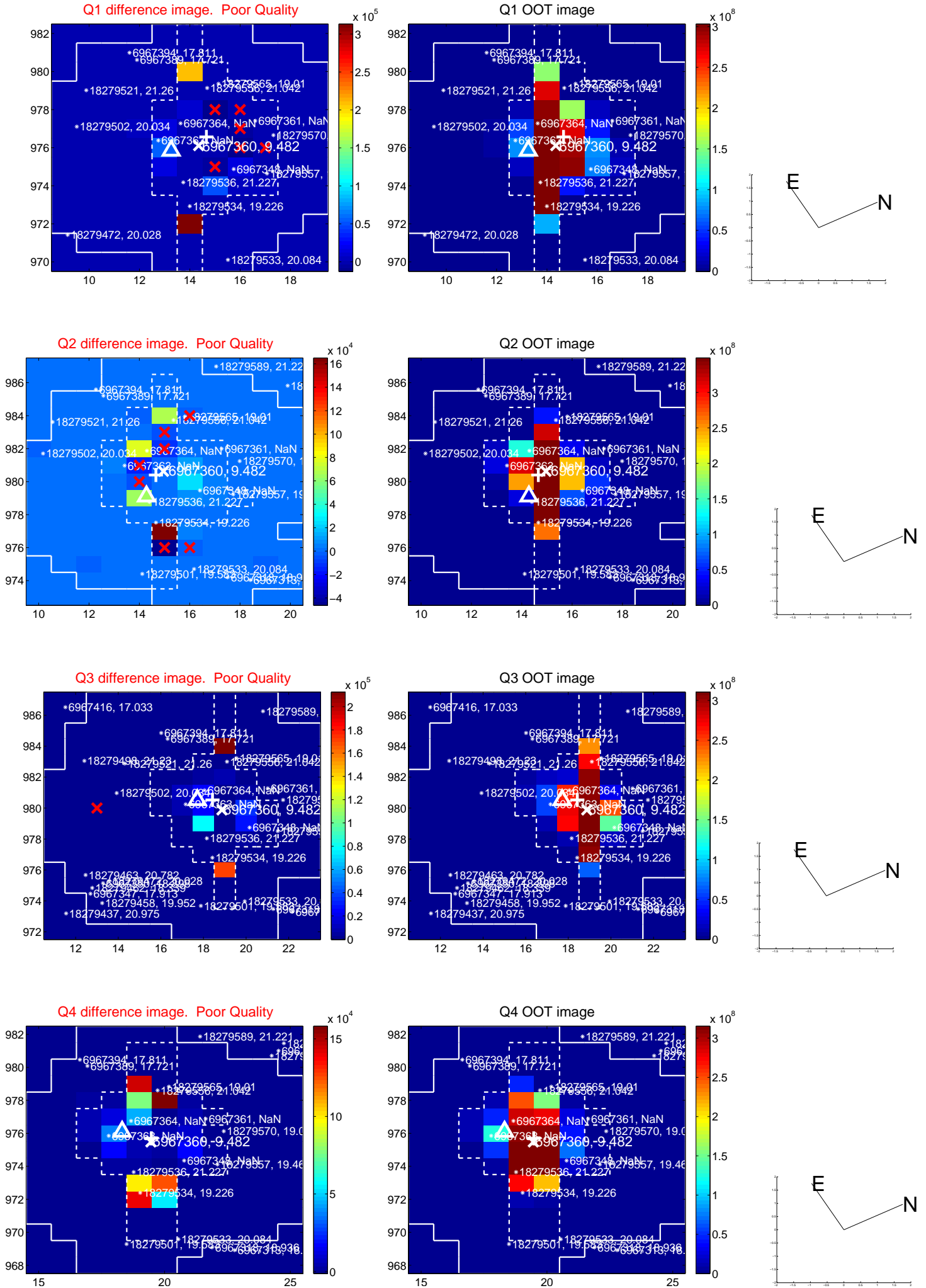
The OOT PRF centroid is offset from the target star catalog position by about 2.19 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.915 ± 1.086	2.68	-2.382 ± 1.306	1.681 ± 0.977
PRF-fit source offset from KIC position	3.278 ± 1.009	3.25	-1.052 ± 1.363	-3.105 ± 0.904
photometric centroid source offset	0.45 ± 0.25	1.81	-0.42 ± 0.25	-0.15 ± 0.17

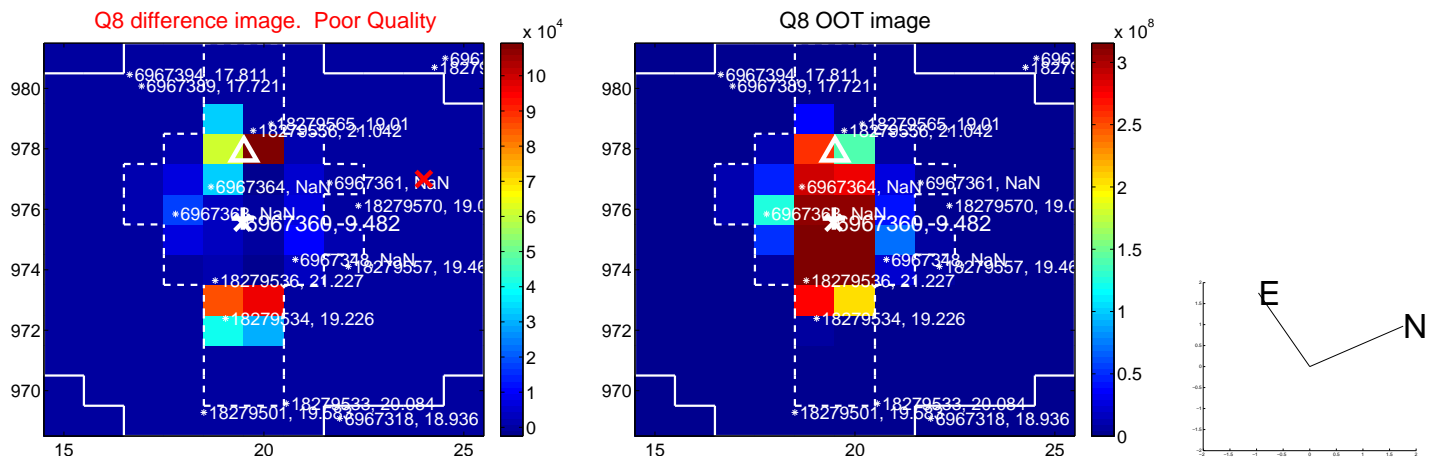
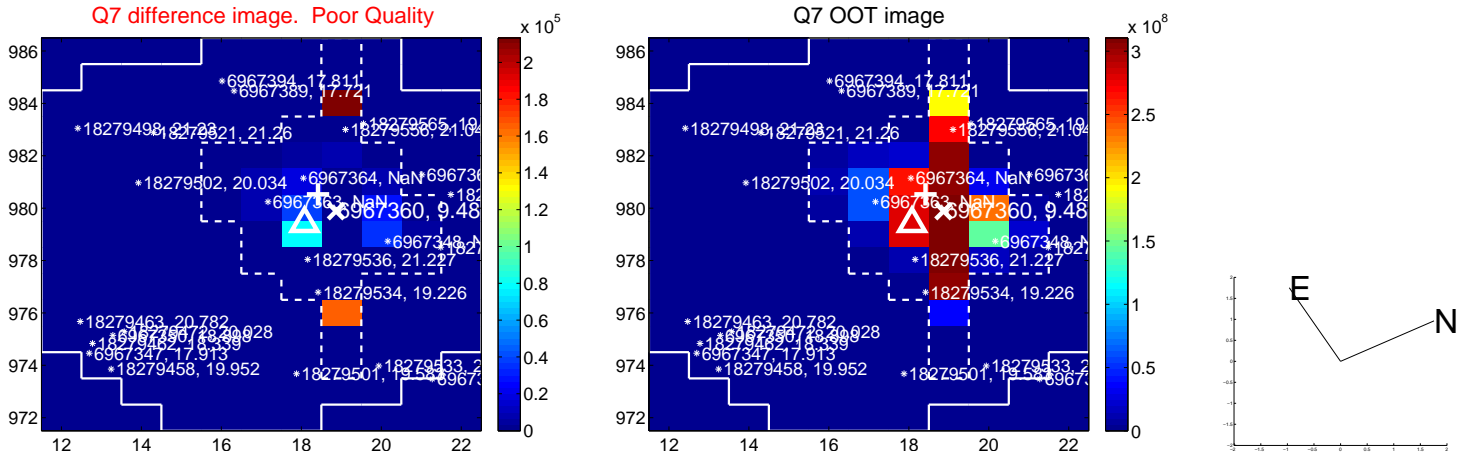
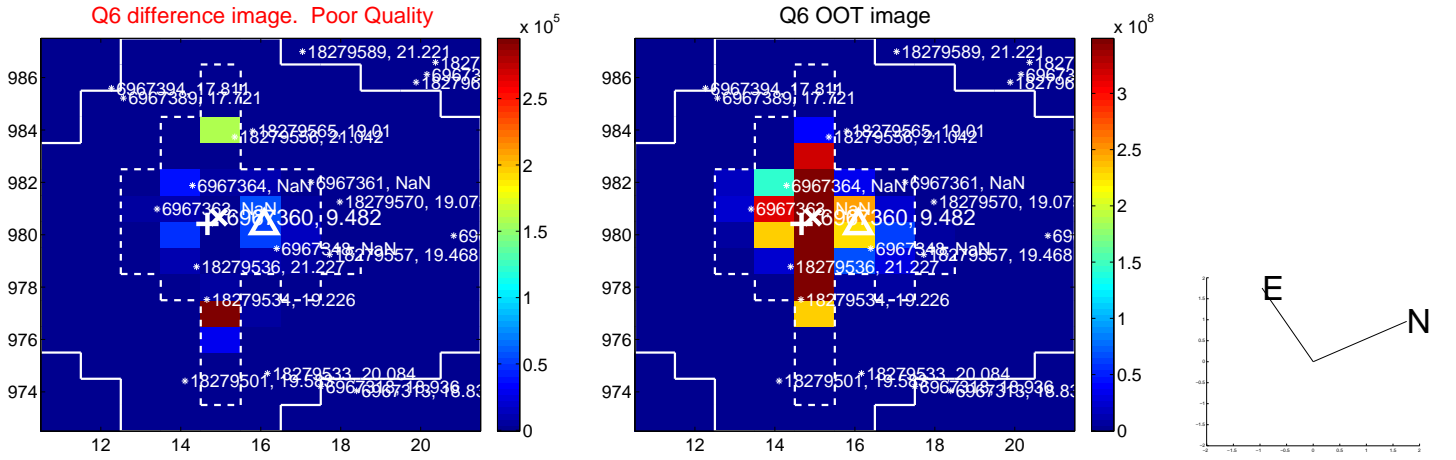
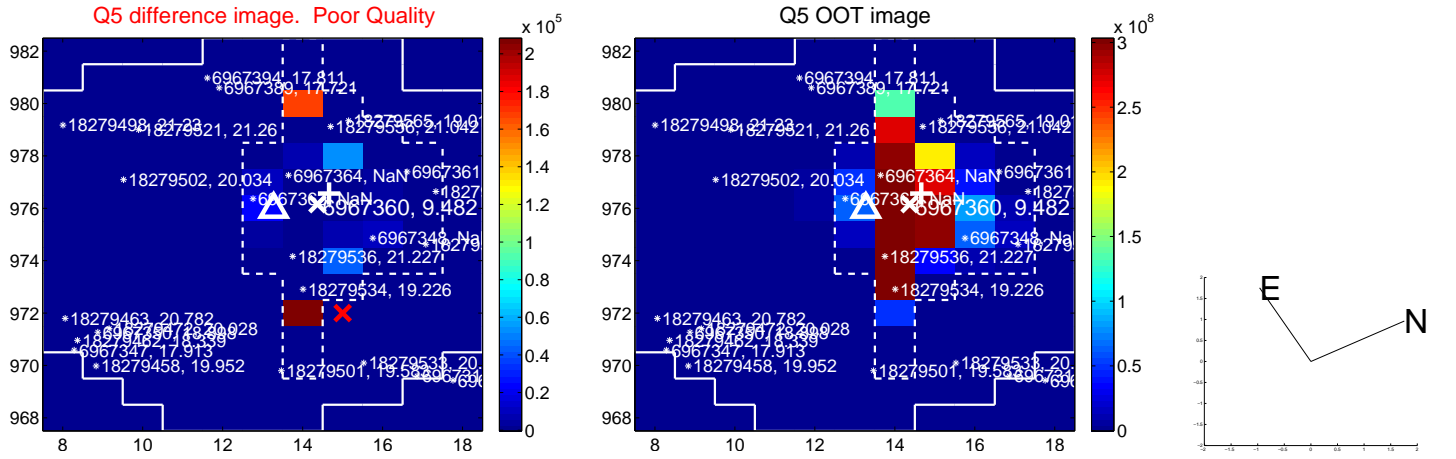


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

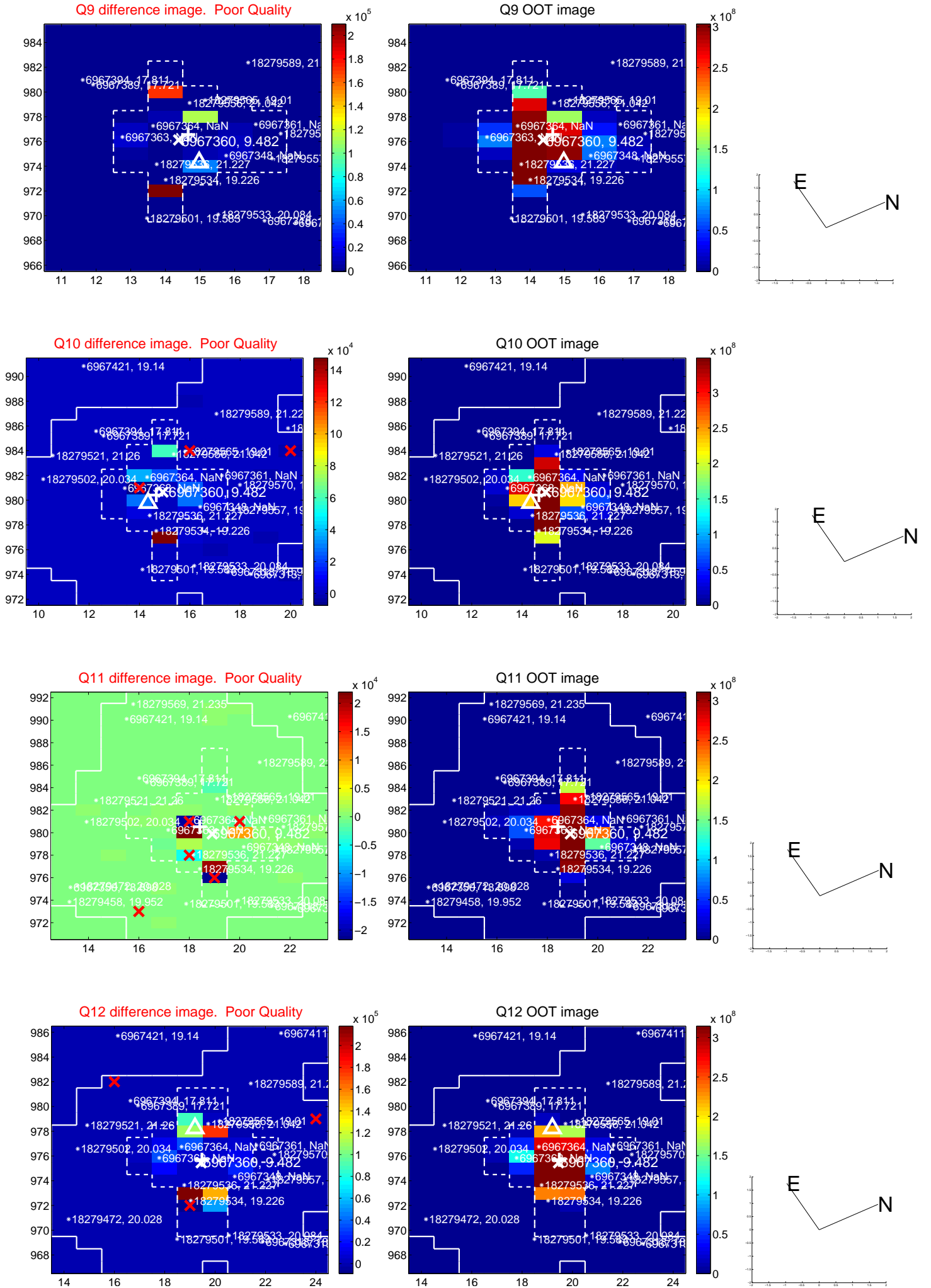
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



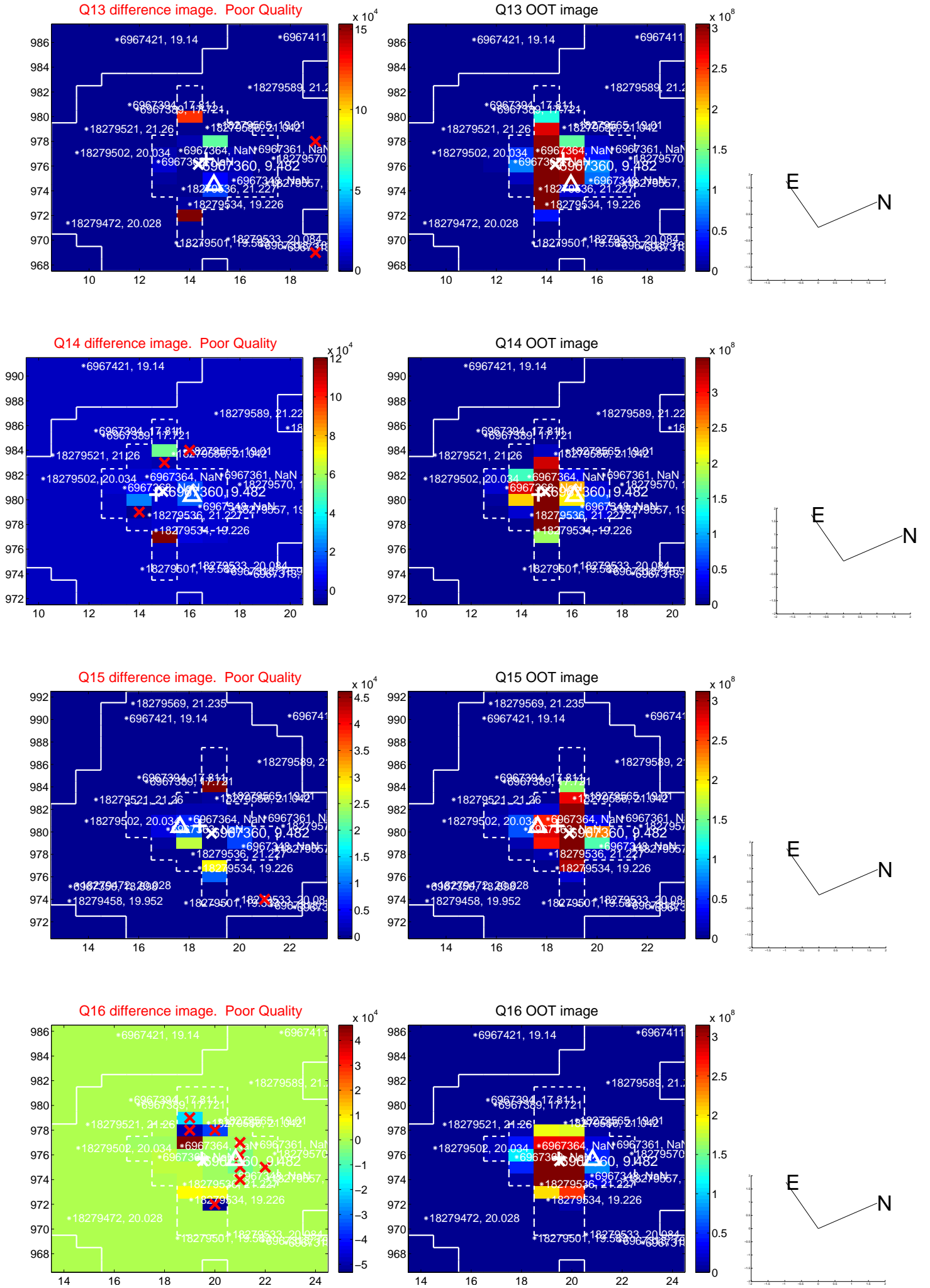
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



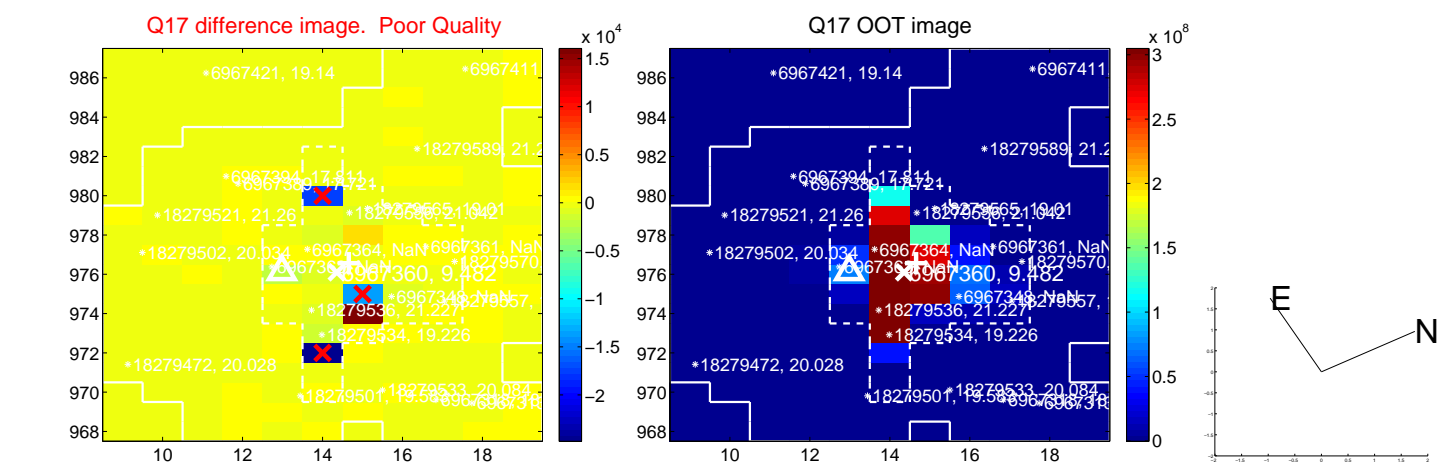
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



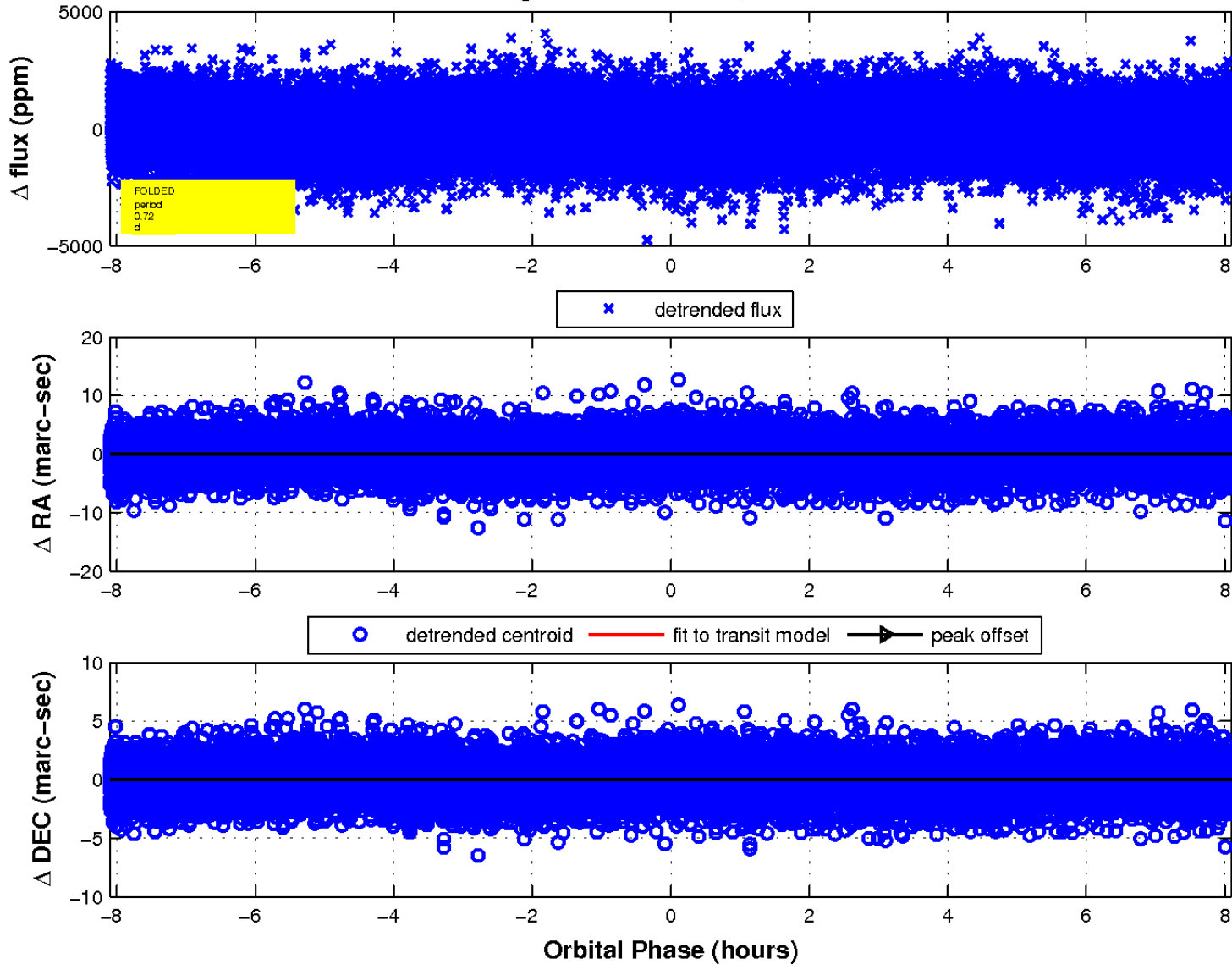
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

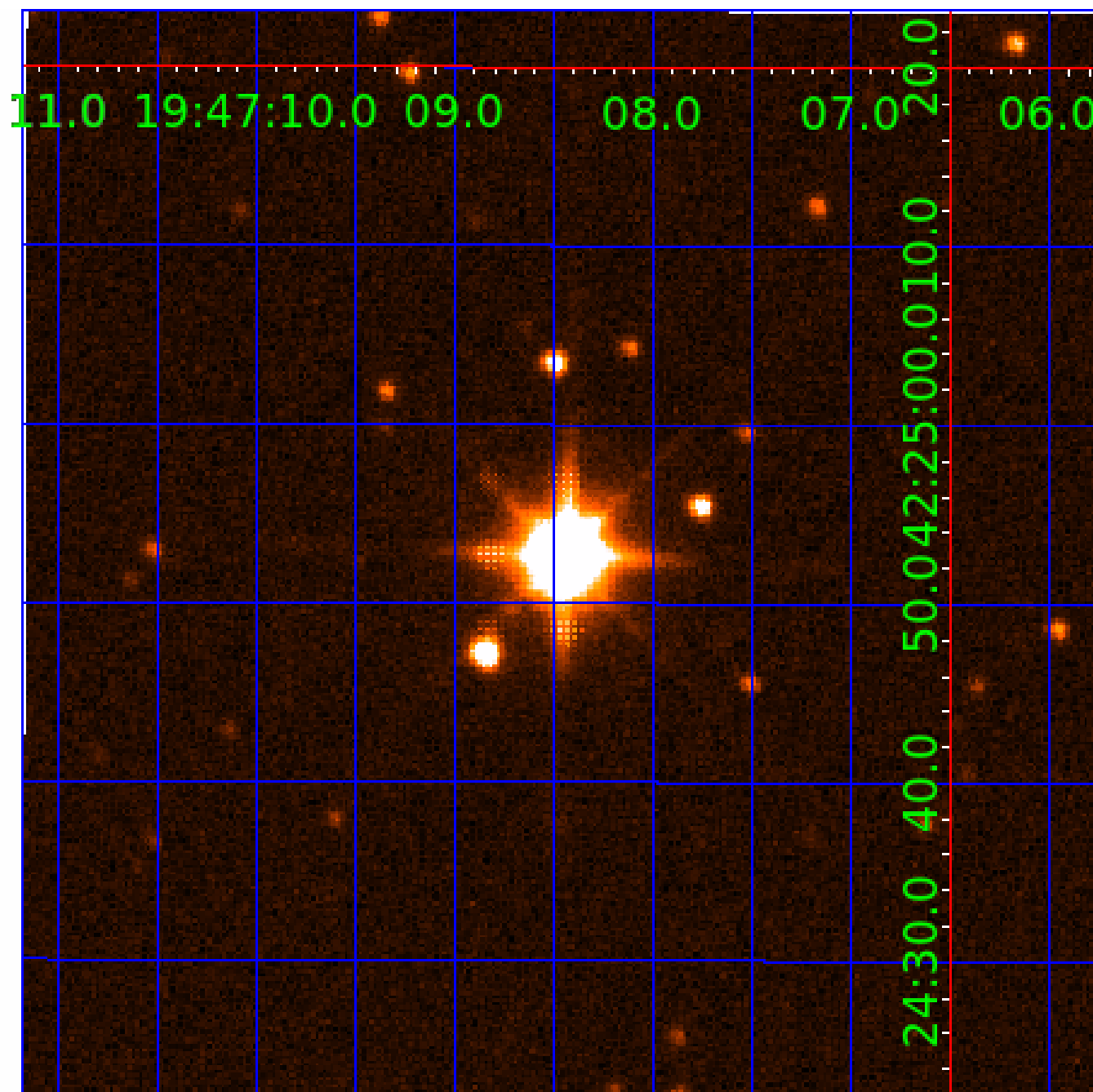


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 006967360

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})
006967360-01	OBS	No	0.715321	131.662930	92.8	2.699	8.0	7.9	3.22	8319	3.62	112654.49
006967360-02	OBS	No	152.194522	159.997016	1877.1	3.513	7.7	8.0	3.22	8319	25.52	88.69
006967360-03	OBS	No	19.711673	143.021814	705.3	1.798	7.6	7.6	3.22	8319	9.76	1353.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006967360-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006967360-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006967360-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

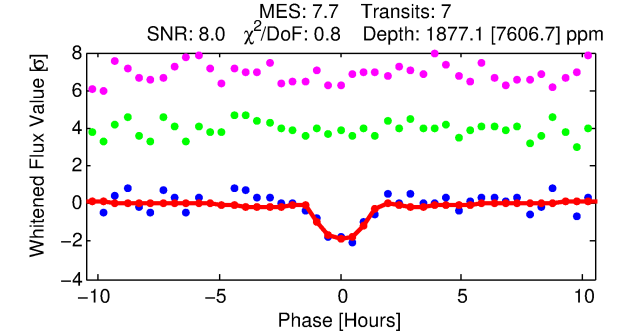
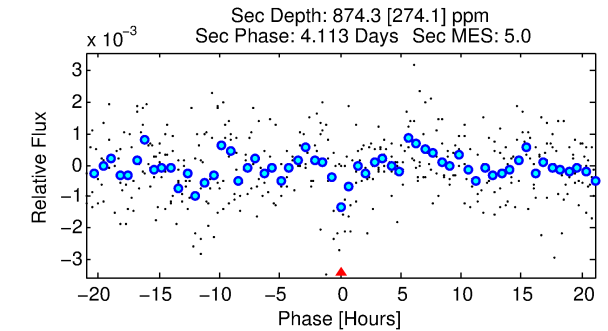
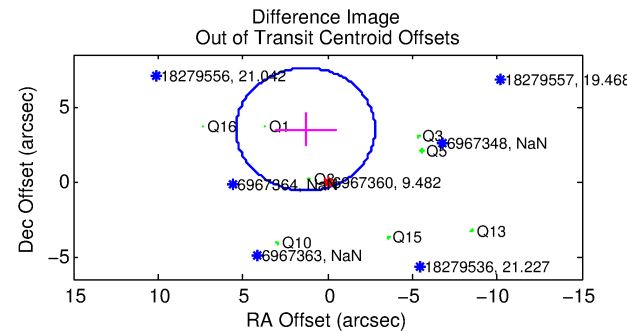
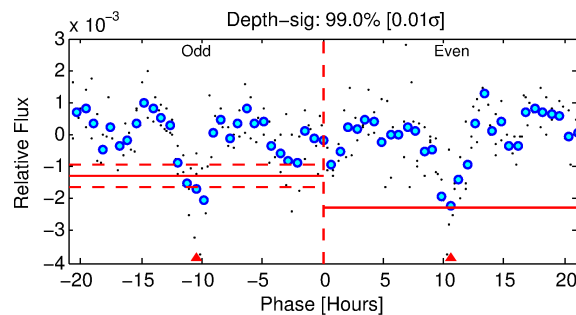
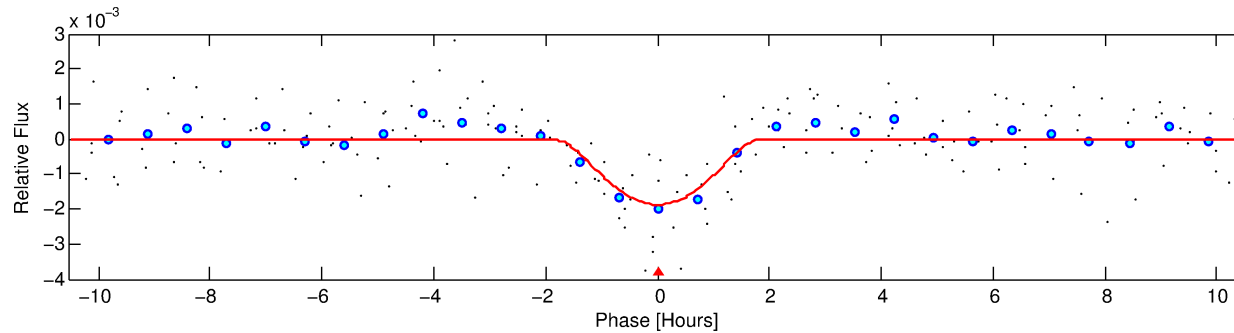
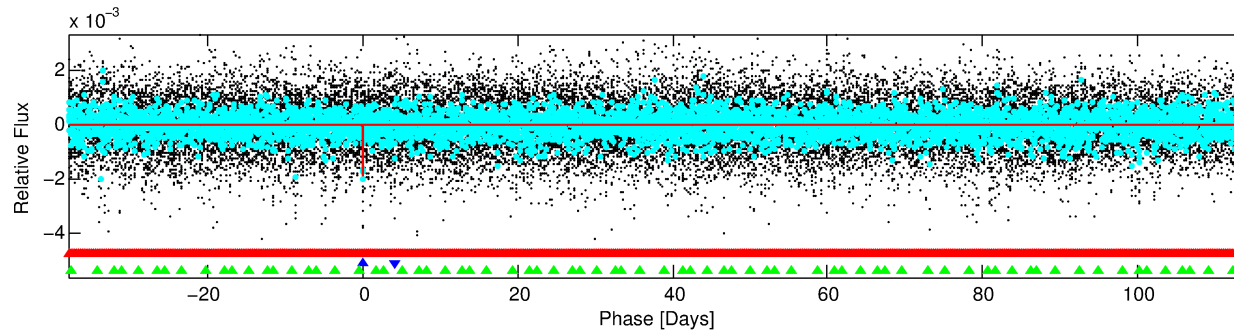
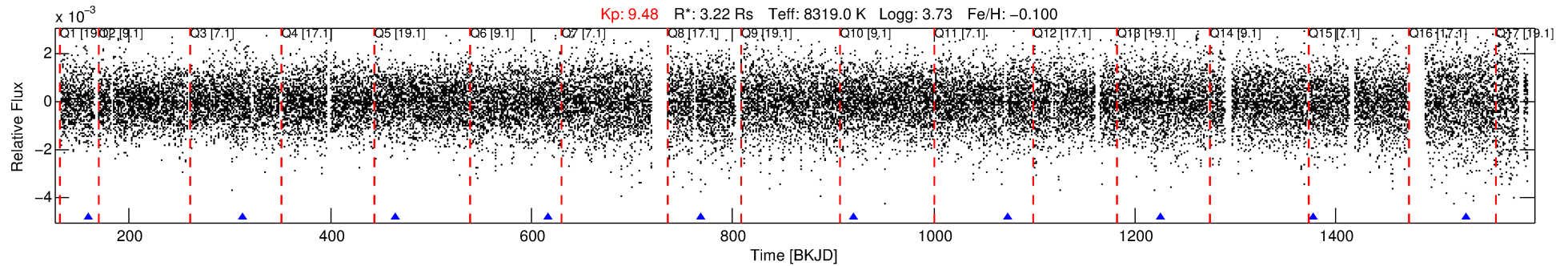
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006967360-02

No Significant Match Found

DV One-Page Summary

KIC: 6967360 Candidate: 2 of 3 Period: 152.195 d



DV Fit Results:

Period = 152.19452 [0.00173] d
Epoch = 159.9970 [0.0090] BKJD
 $R_p/R^* = 0.0726$ [0.2507]
 $a/R^* = 128.40$ [102.12]
 $b = 1.00$ [0.56]
 $\text{Seff} = 88.69$ [65.19]
 $\text{Teq} = 783$ [144] K
 $R_p = 25.52$ [88.84] Re
 $a = 0.7083$ [0.3137] AU
 $\text{Ag} = 370.49$ [2573.64] [0.14 σ]
 $\text{Teffp} = 5308$ [9173] K [0.49 σ]

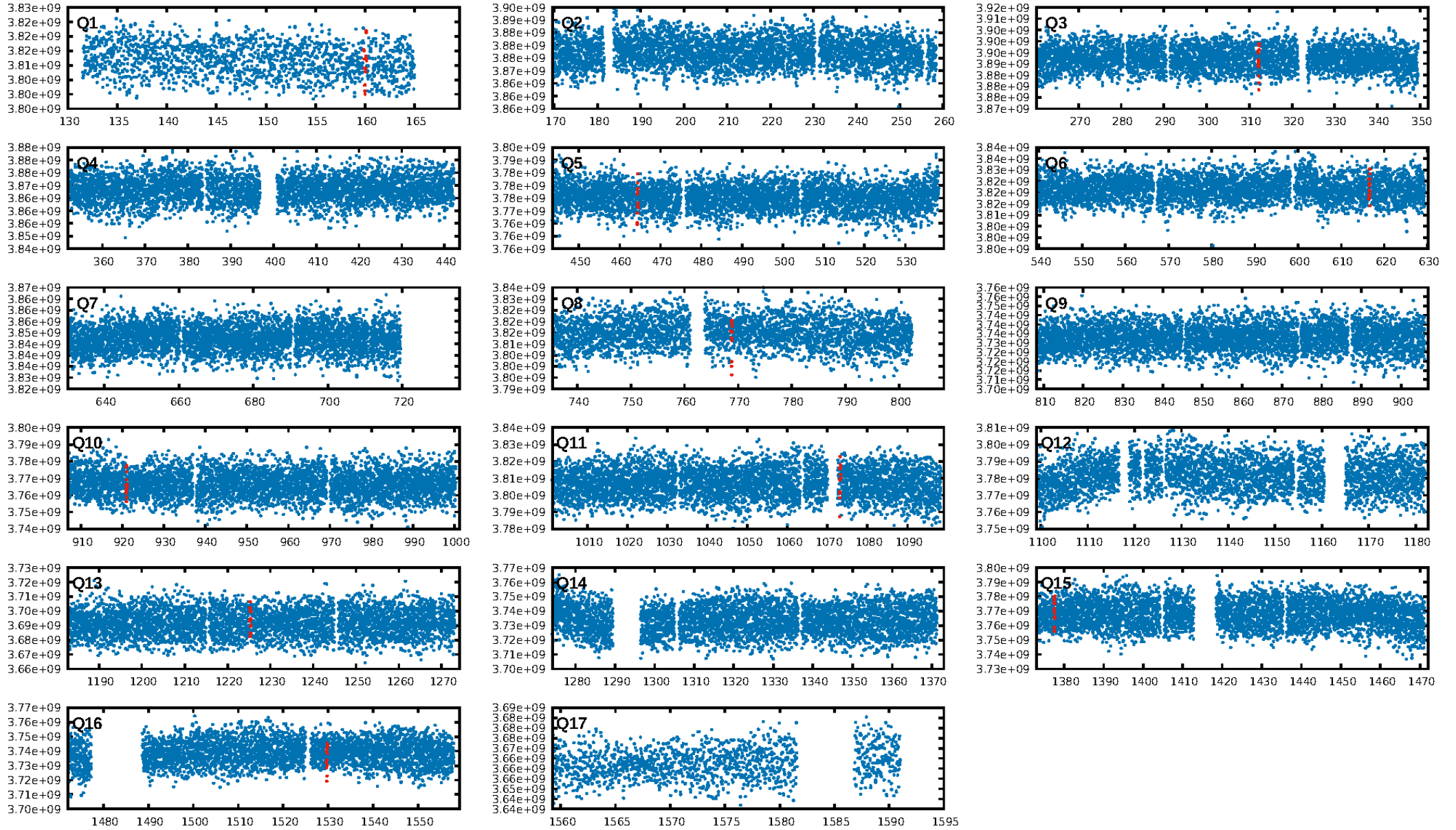
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [805.57 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 11.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.24e-10
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: N/A
Centroid-sig: 46.1%
Centroid-so: 0.243 arcsec [1.21 σ]
OotOffset-rm: 3.726 arcsec [2.73 σ]
KicOffset-rm: 4.405 arcsec [2.90 σ]
OotOffset-st: 1/2/2/3 [8]
KicOffset-st: 1/2/2/3 [8]
DiffImageQuality-fgm: 0.12 [1/8]
DiffImageOverlap-fno: 0.00 [0/9]

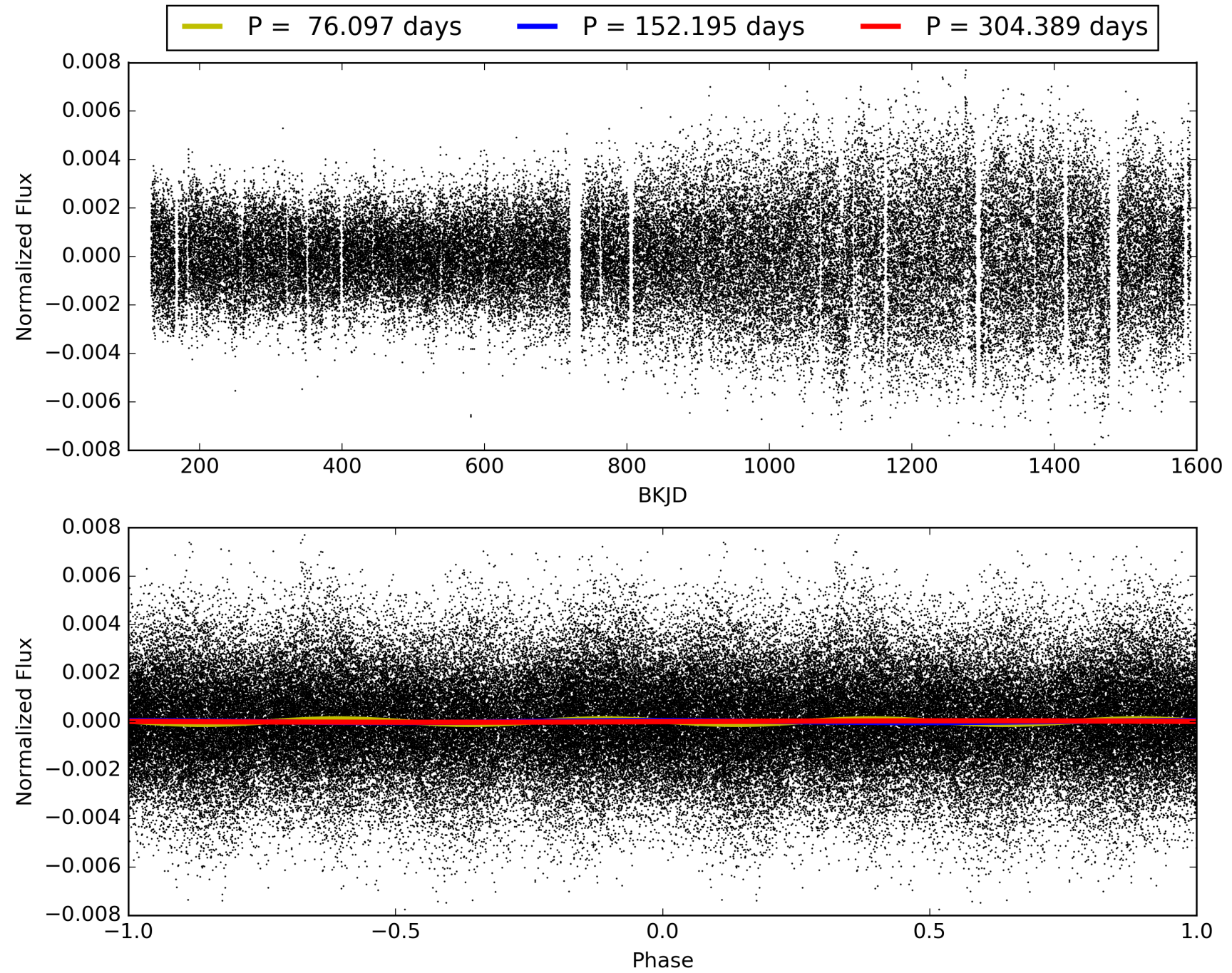
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:27:45 Z

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

TCE 006967360-02, PDC Light Curves

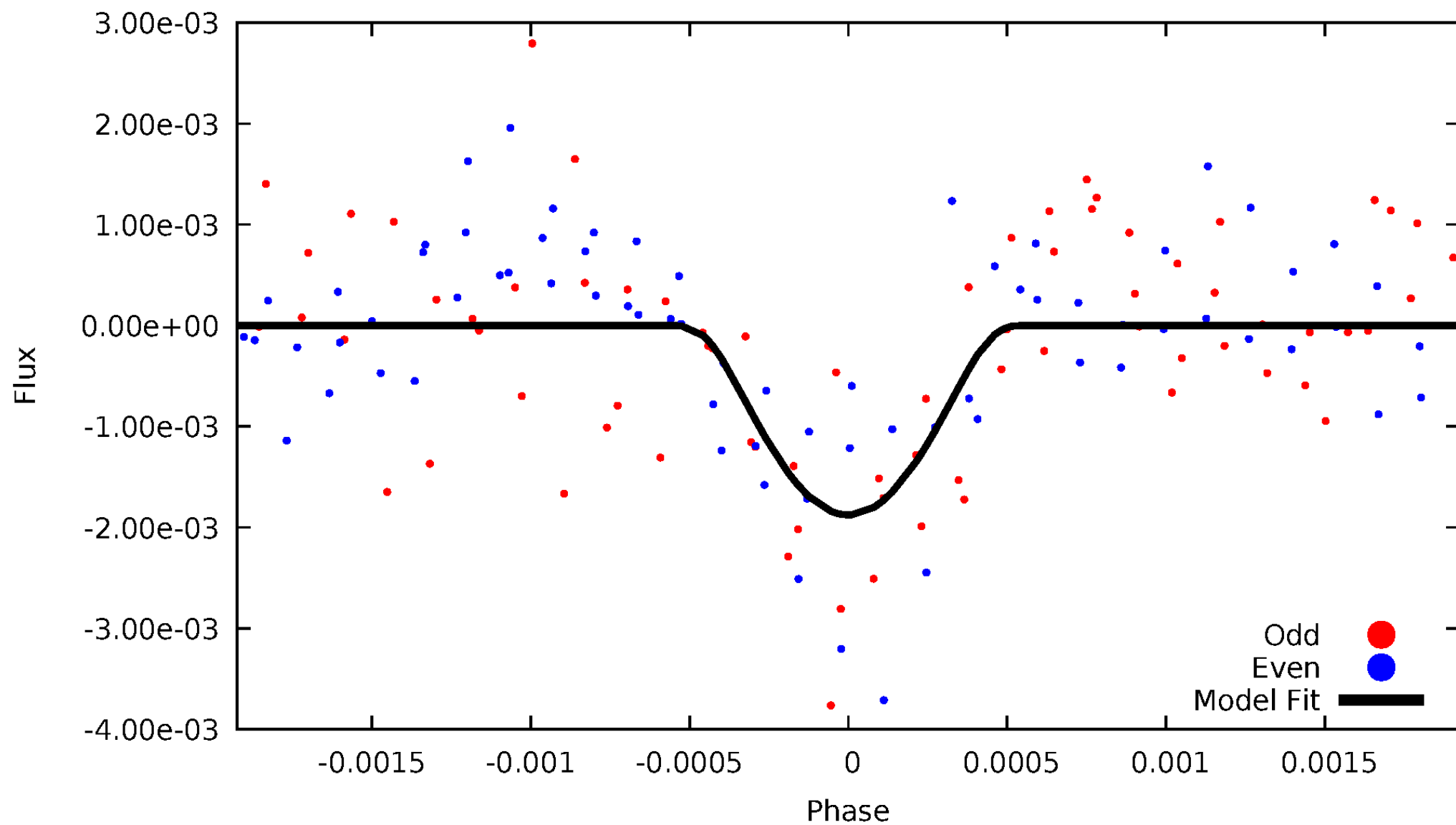


TCE 006967360-02



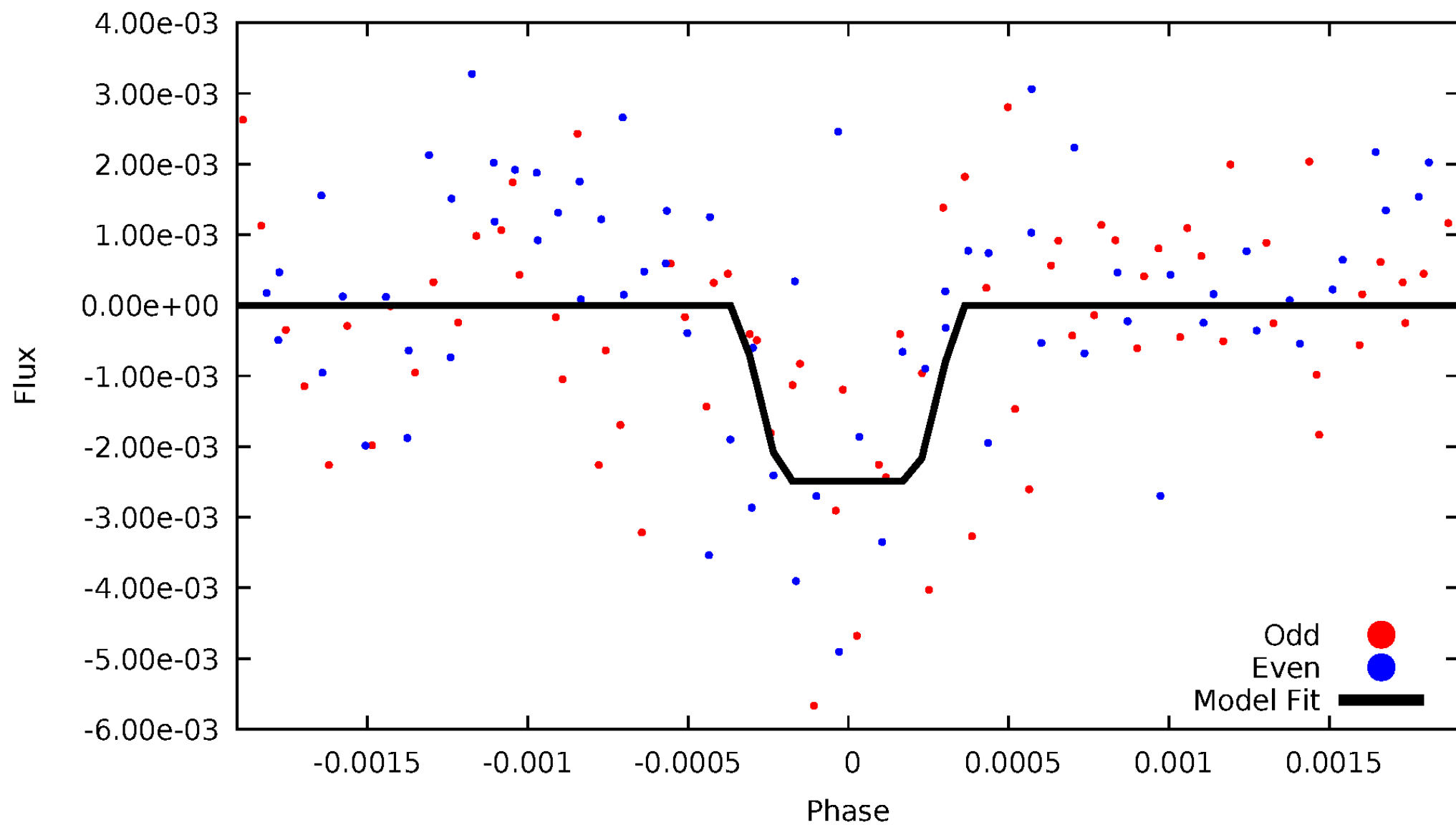
DV Odd/Even

TCE 006967360-02



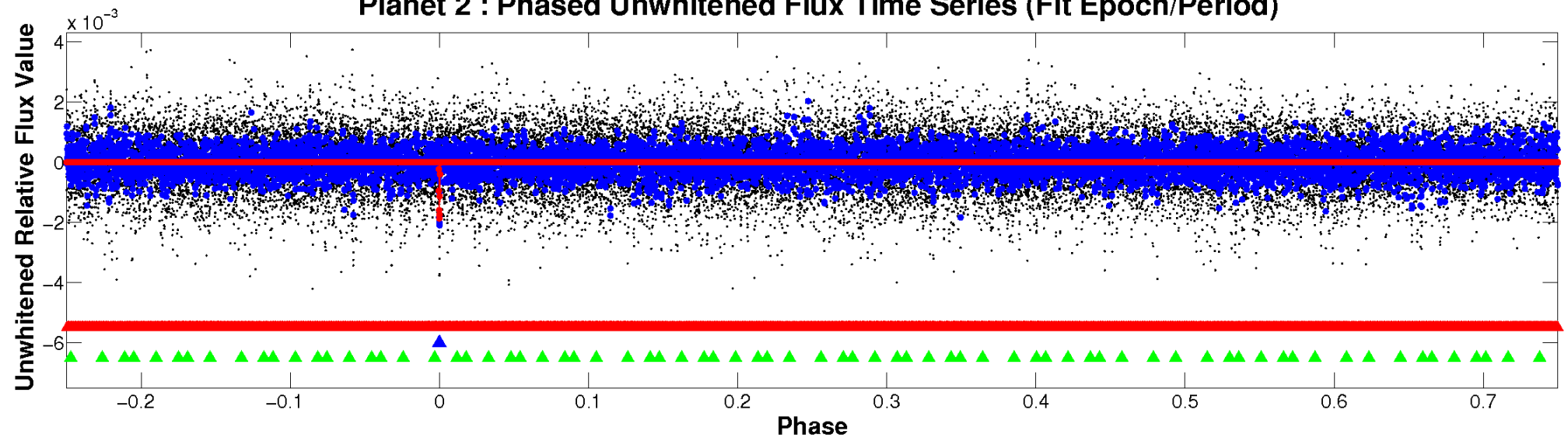
ALT Odd/Even

TCE 006967360-02

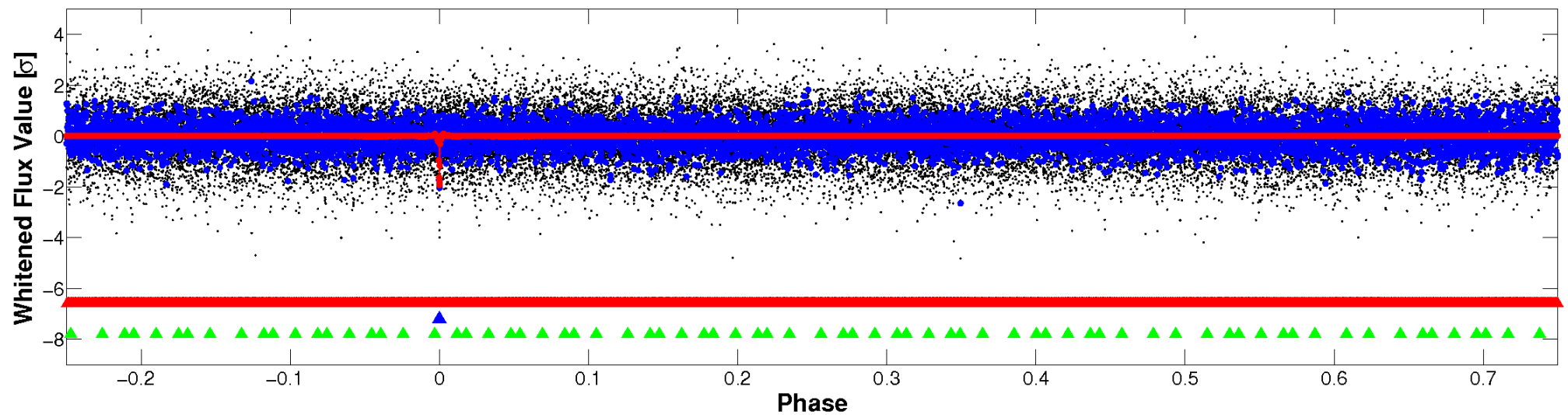


Non-Whitened Vs. Whitened Light Curve

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

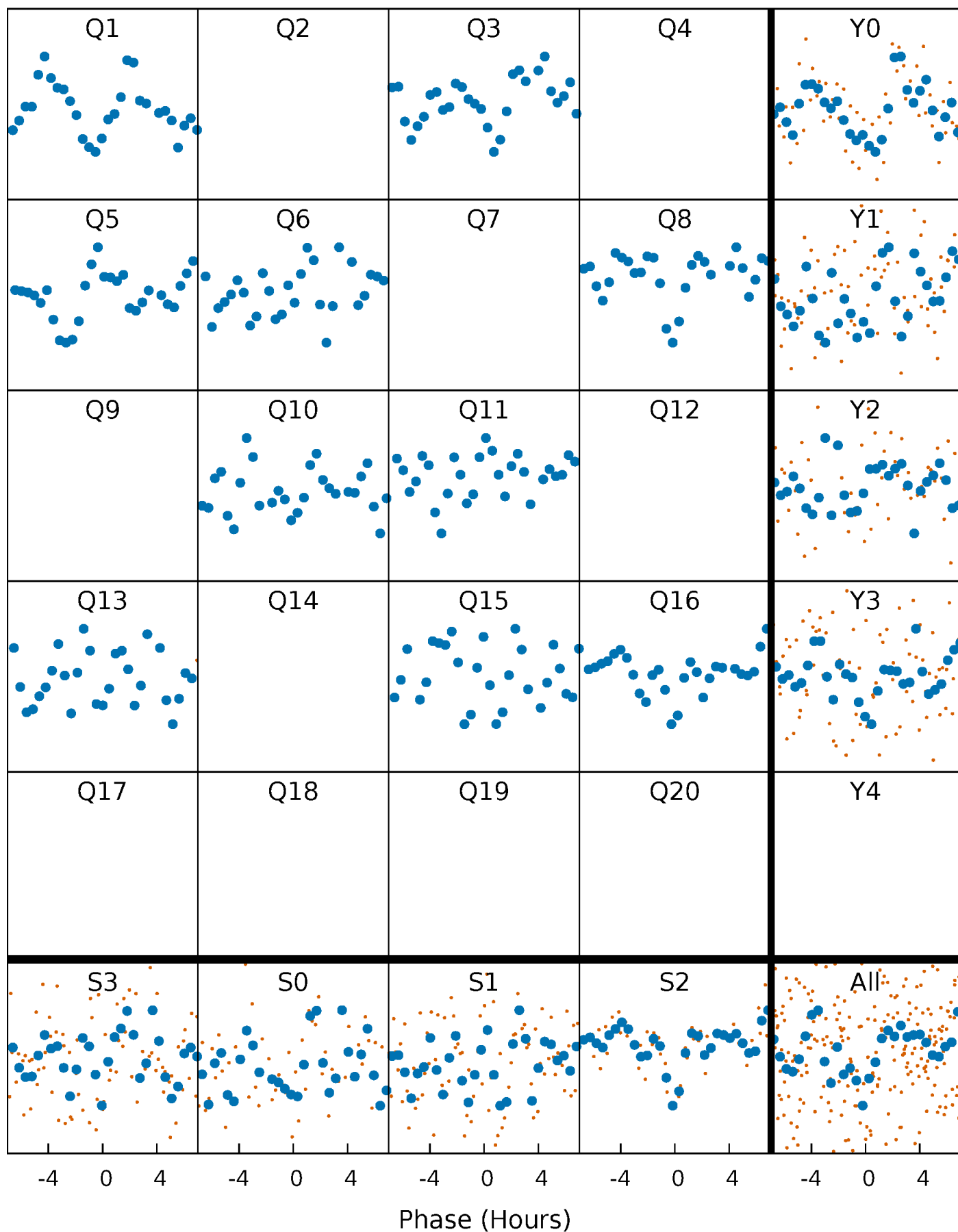


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



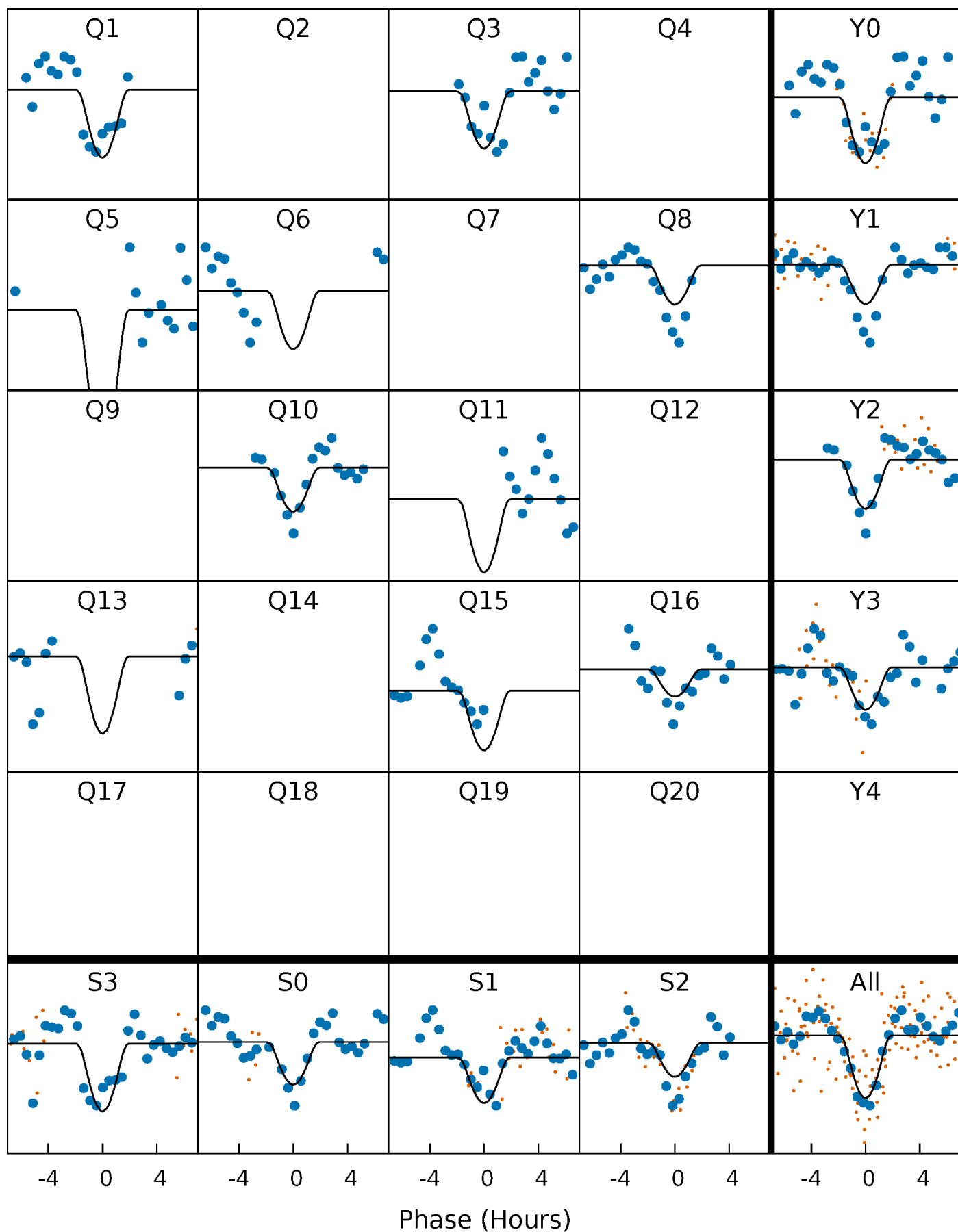
PDC Quarter-Phased Transit Curves

TCE 006967360-02 P=152.194522 Days $T_0=159.997016$ (BKJD)



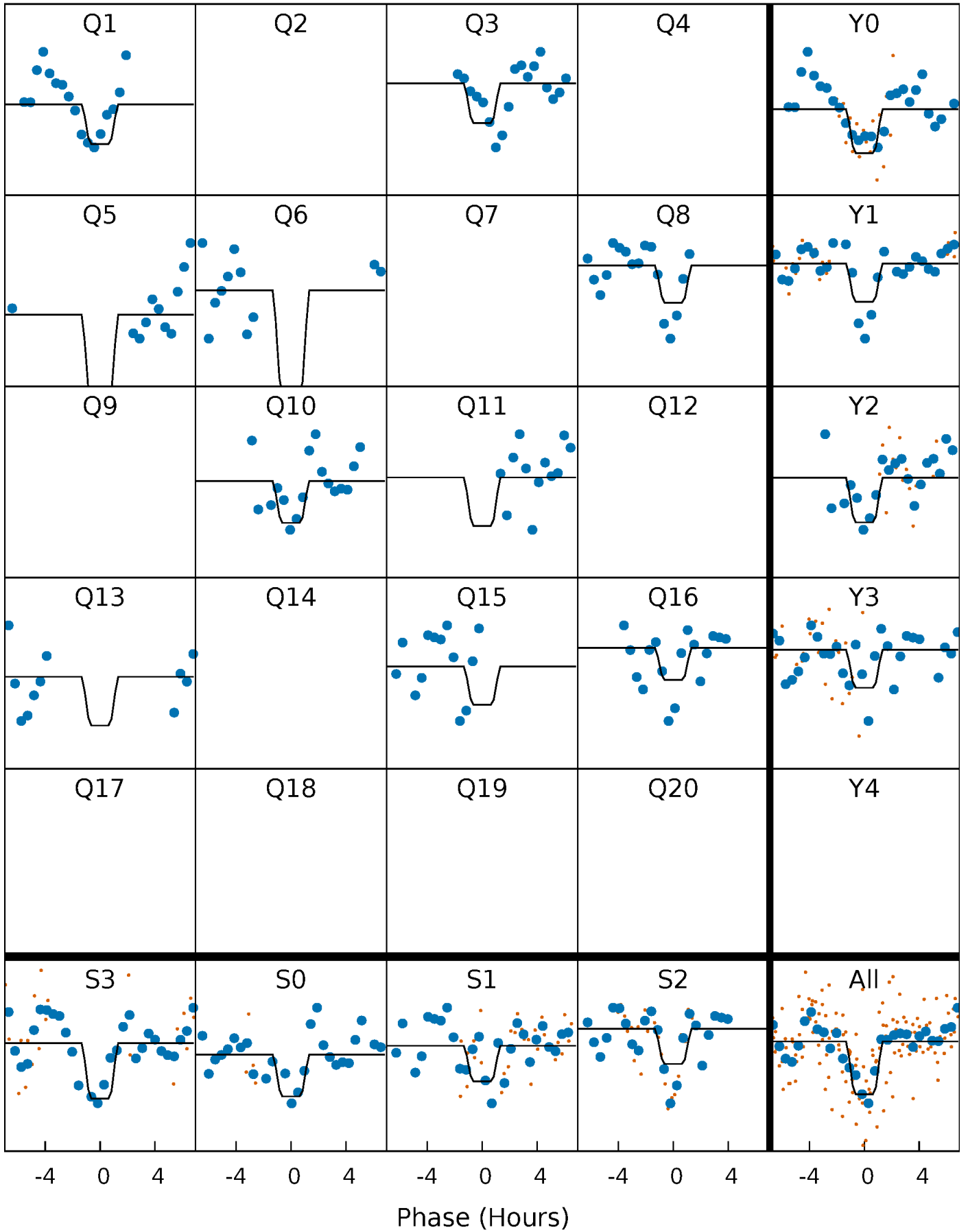
DV Quarter-Phased Transit Curves

TCE 006967360-02 P=152.194522 Days $T_0=159.997016$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

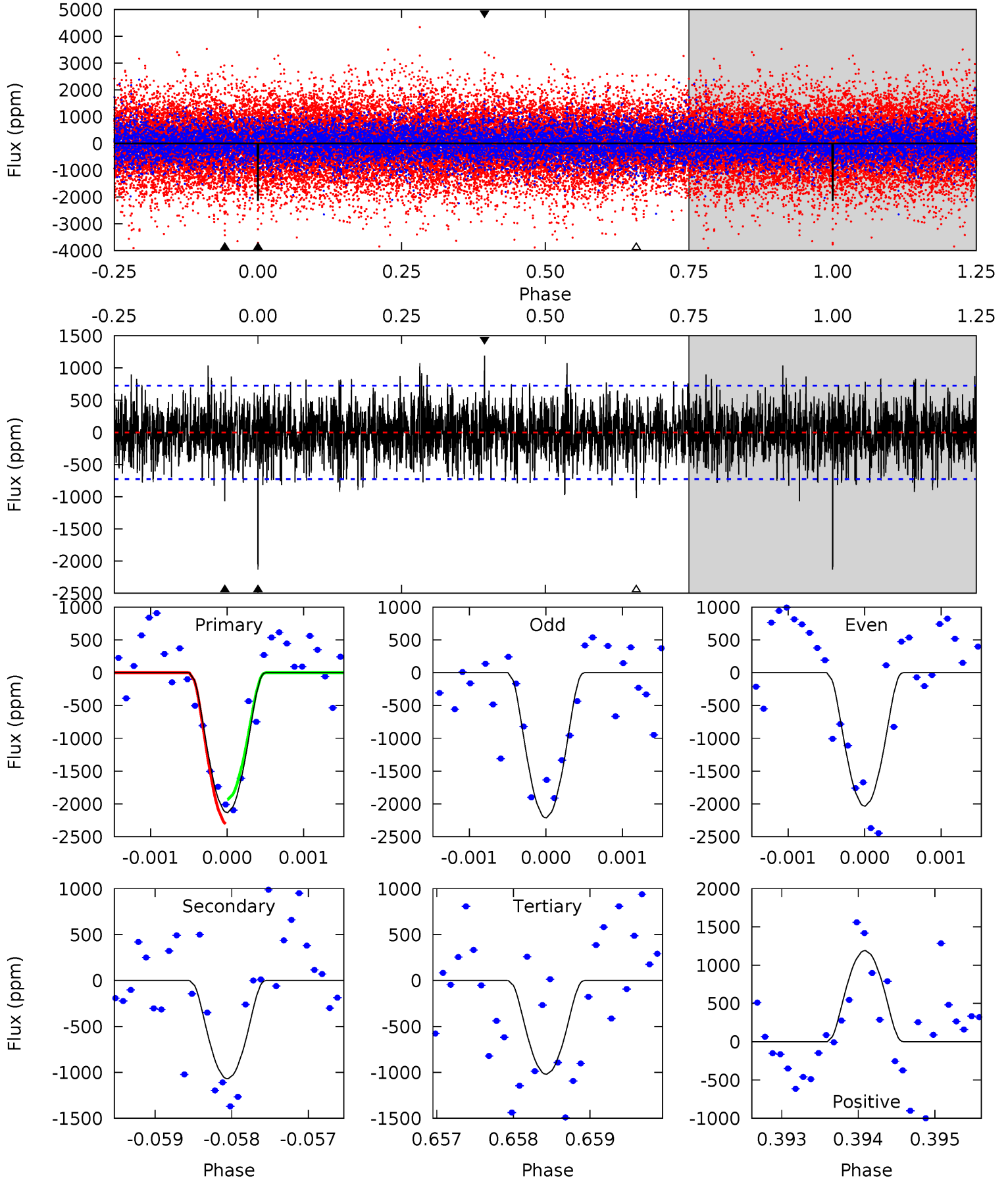
TCE 006967360-02 P=152.195914 Days $T_0=159.992392$ (BKJD)



DV Model-Shift Uniqueness Test

006967360-02, P = 152.194522 Days, E = 7.802494 Days

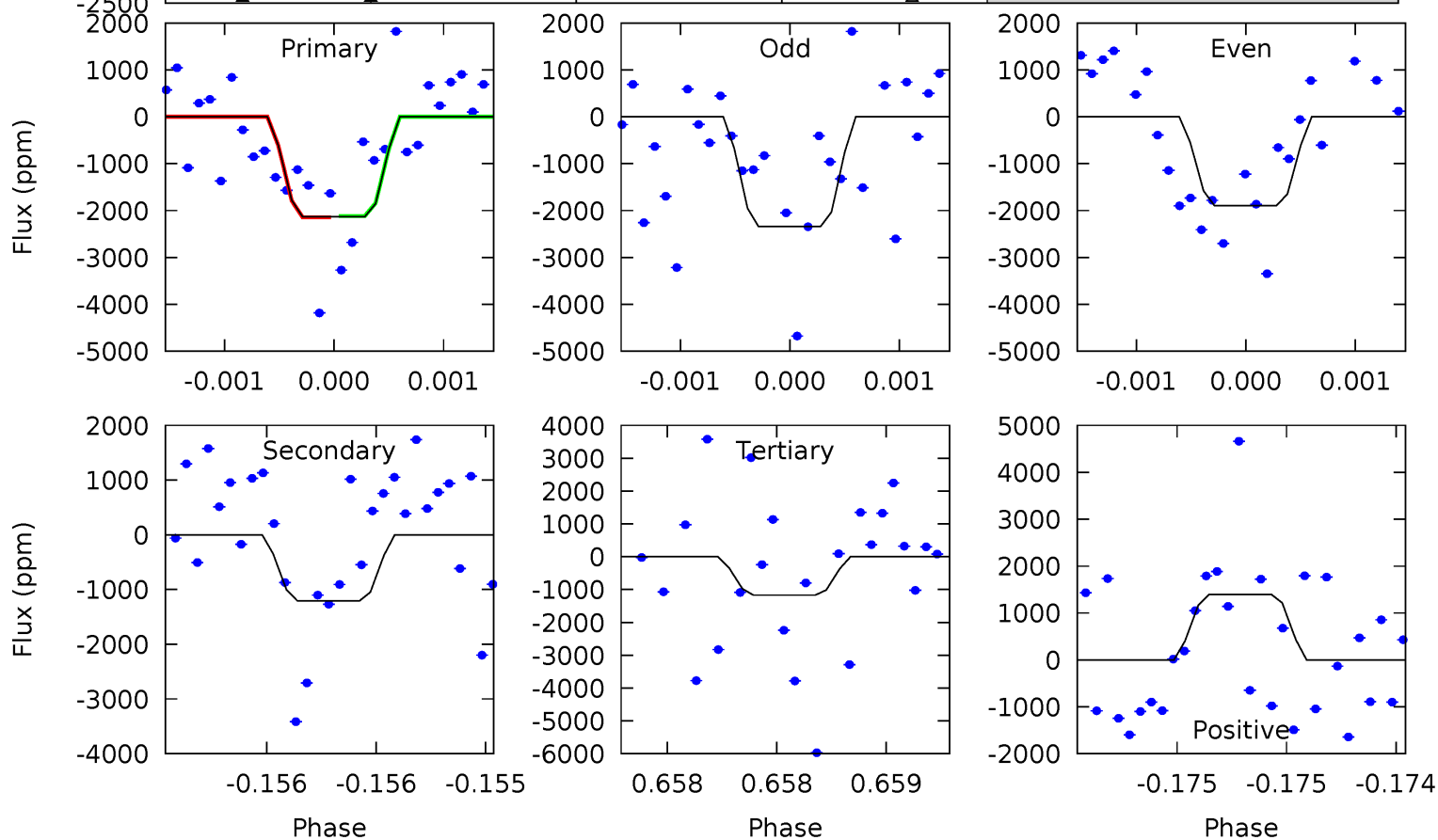
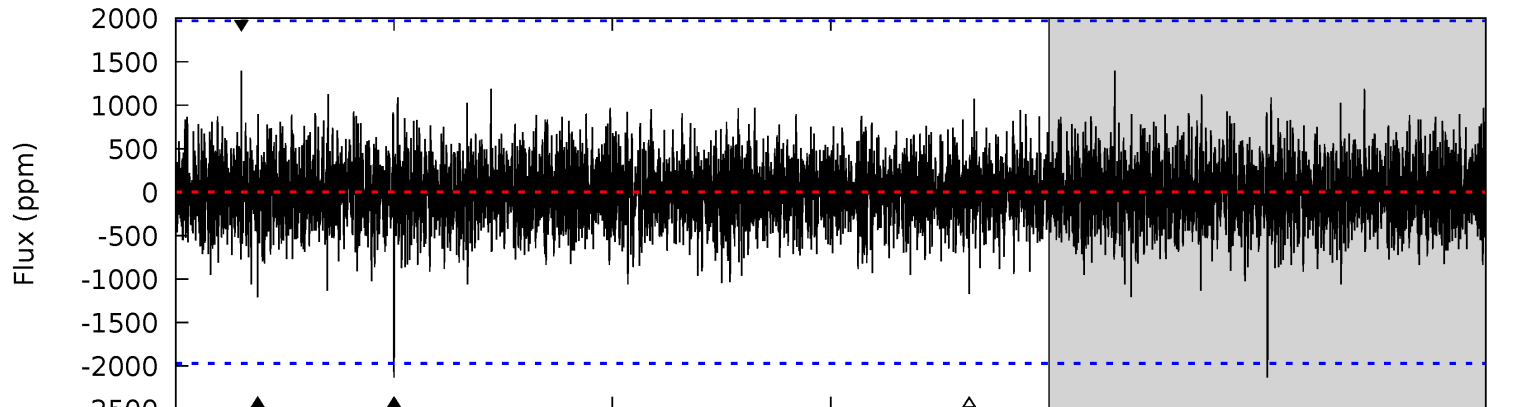
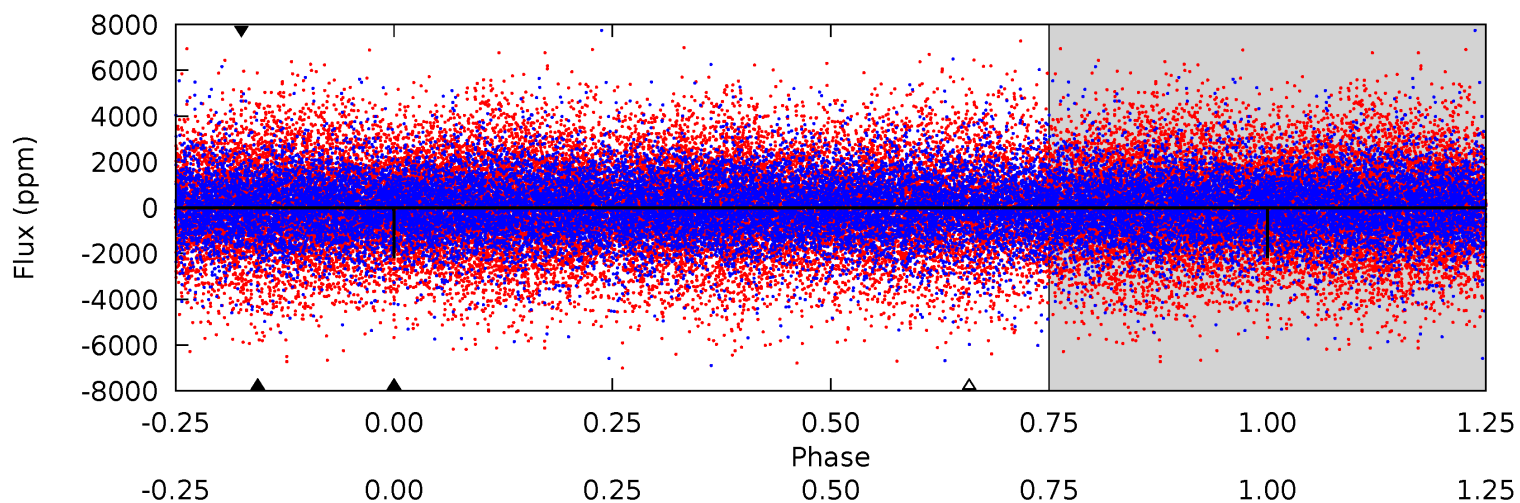
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.0	8.02	7.65	8.93	5.44	3.27	2.24	8.34	7.06	0.37	-0.91	0.67	0.80	0.36	1.38



Alt Model-Shift Uniqueness Test

006967360-02, P = 152.195914 Days, E = 7.796478 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.00	3.39	3.29	3.93	5.54	3.43	0.93	2.71	2.07	0.11	-0.54	0.62	0.97	0.40	0.03



Stellar Parameters For KIC 006967360

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8319^{+230}_{-374}	$3.733^{+0.420}_{-0.140}$	$-0.100^{+0.300}_{-0.400}$	$3.220^{+0.978}_{-1.467}$	$2.046^{+0.387}_{-0.473}$	$0.086^{+0.349}_{-0.036}$
	+3%/-4%	+11%/-4%	+300%/-400%	+30%/-46%	+19%/-23%	+404%/-42%
Source	KIC0	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 006967360-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1069 ± 133	$62.70^{+73.91}_{-44.31}$	1056^{+101}_{-131}	3691^{+2216}_{-750}	75^{+834}_{-59}
Alt.	-1206 ± 356	$63.11^{+65.08}_{-43.32}$	1052^{+92}_{-120}	3702^{+2203}_{-707}	77^{+760}_{-58}

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 $A_{obs} \gg 1.0$

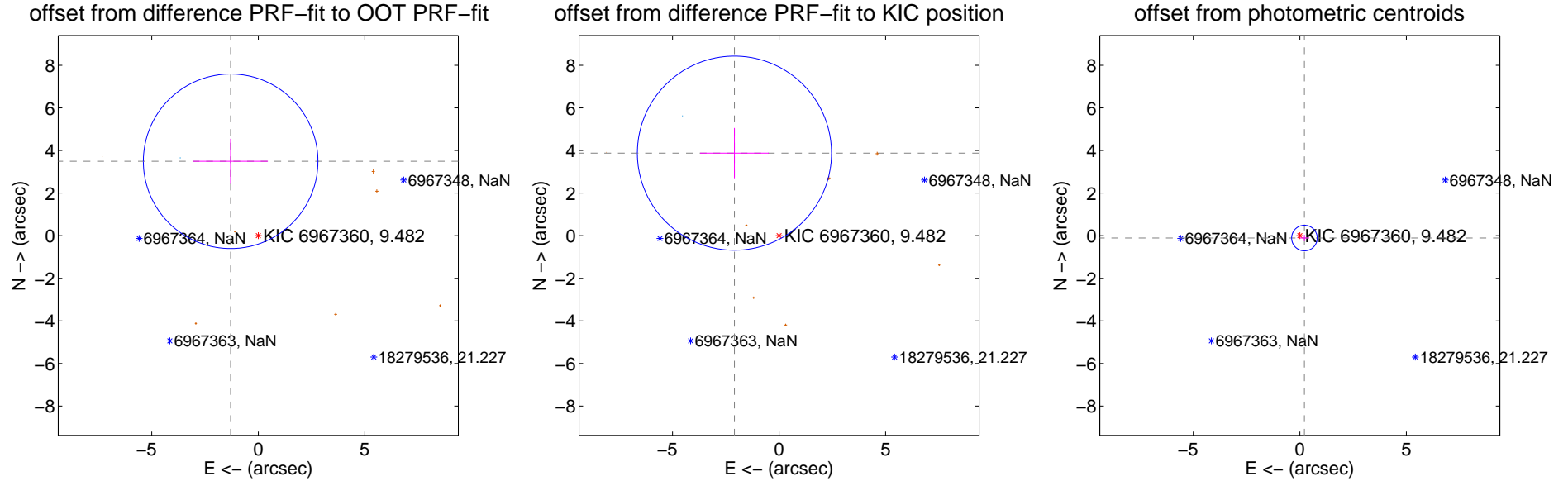
DV Centroid Data

Supplemental centroid analysis for 006967360-02. **Kepler magnitude: 9.48.** Transit SNR 8.04

There are 1 quarters with good PRF difference image offsets

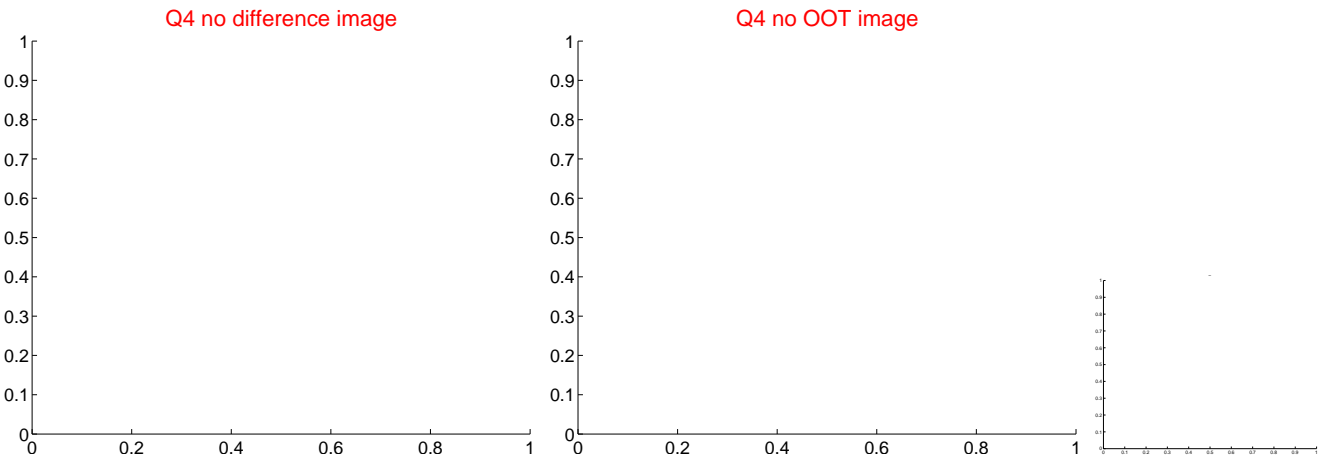
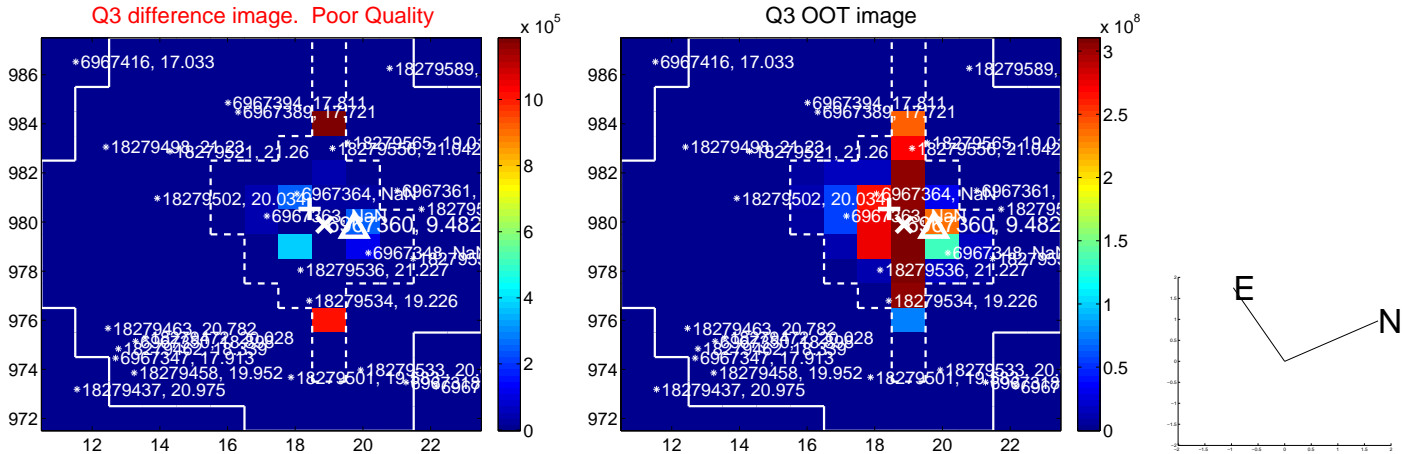
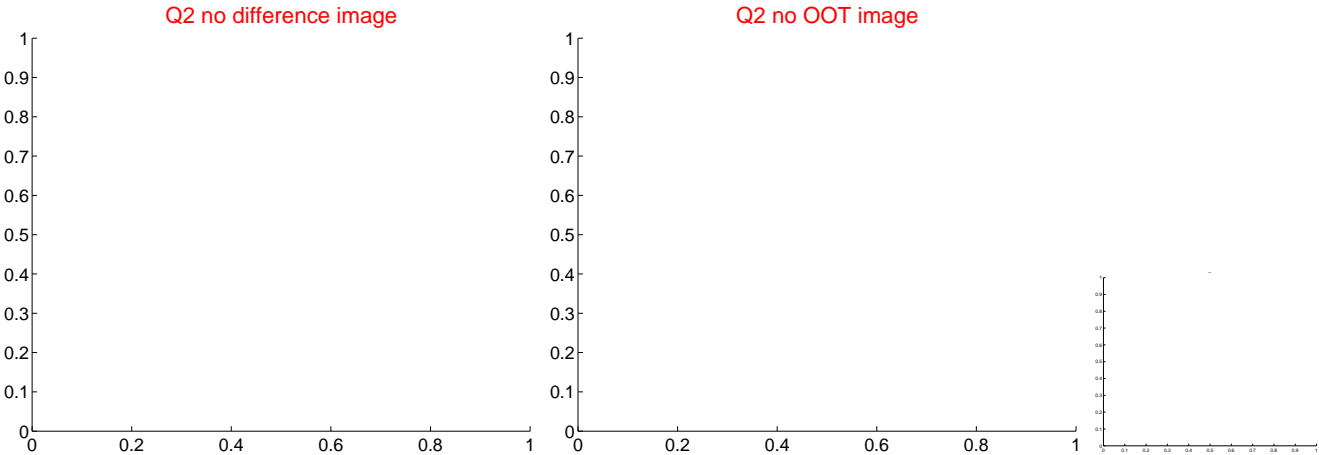
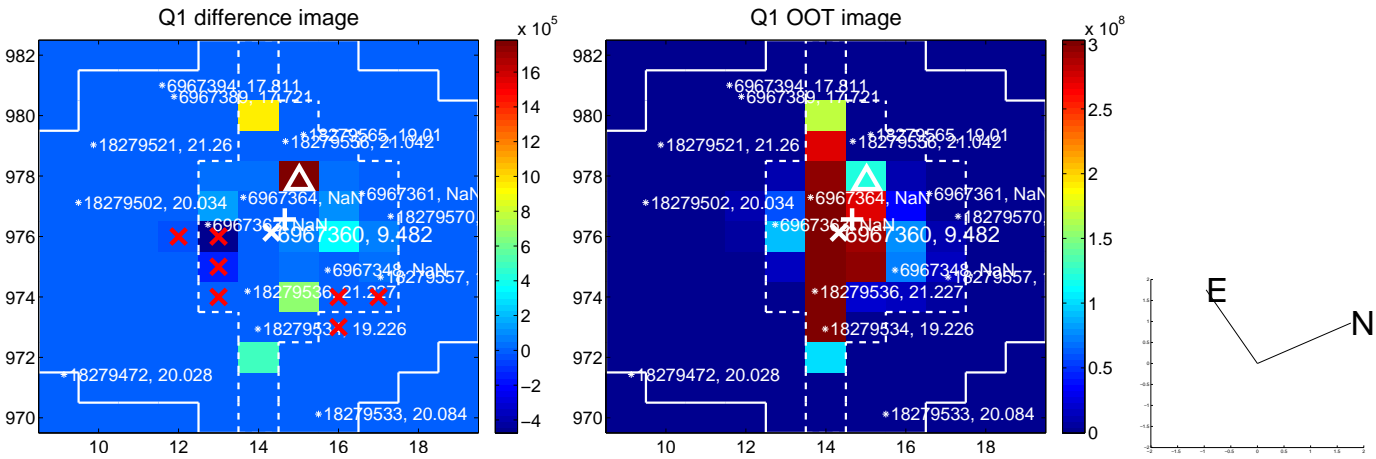
The direct PRF centroid is offset from the target star catalog position by about 0.82 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.726 ± 1.366	2.73	1.298 ± 1.749	3.493 ± 1.061
PRF-fit source offset from KIC position	4.405 ± 1.519	2.90	2.095 ± 1.614	3.875 ± 1.182
photometric centroid source offset	0.24 ± 0.20	1.21	-0.22 ± 0.21	-0.11 ± 0.15

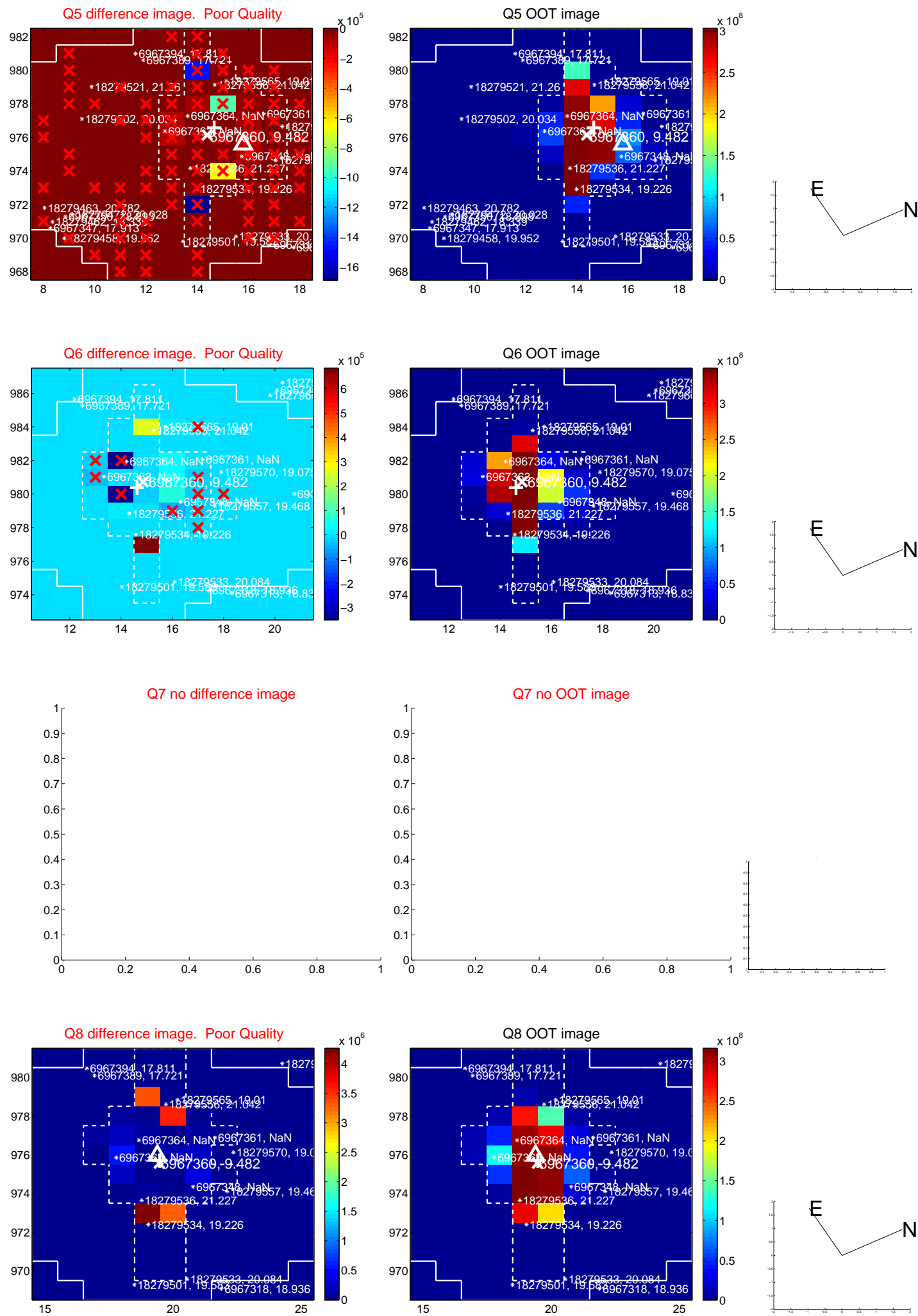


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

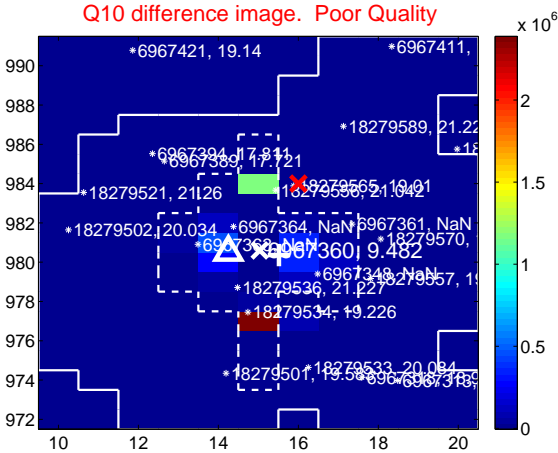
Q9 no difference image



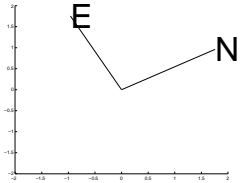
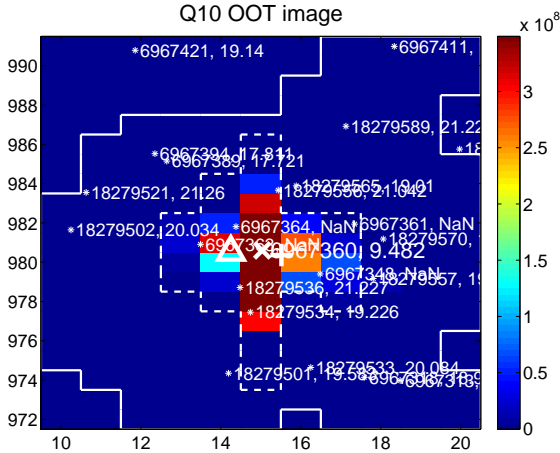
Q9 no OOT image



Q10 difference image. Poor Quality



Q10 OOT image



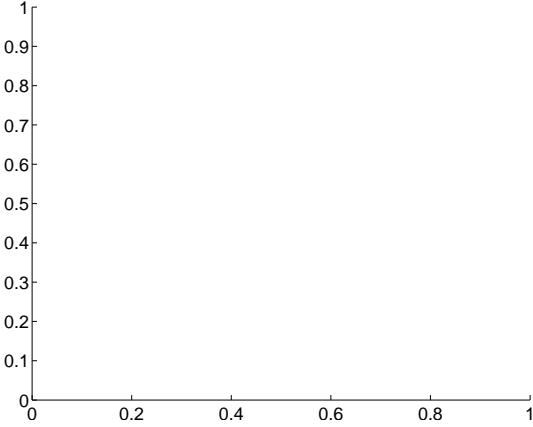
Q11 no difference image



Q11 no OOT image



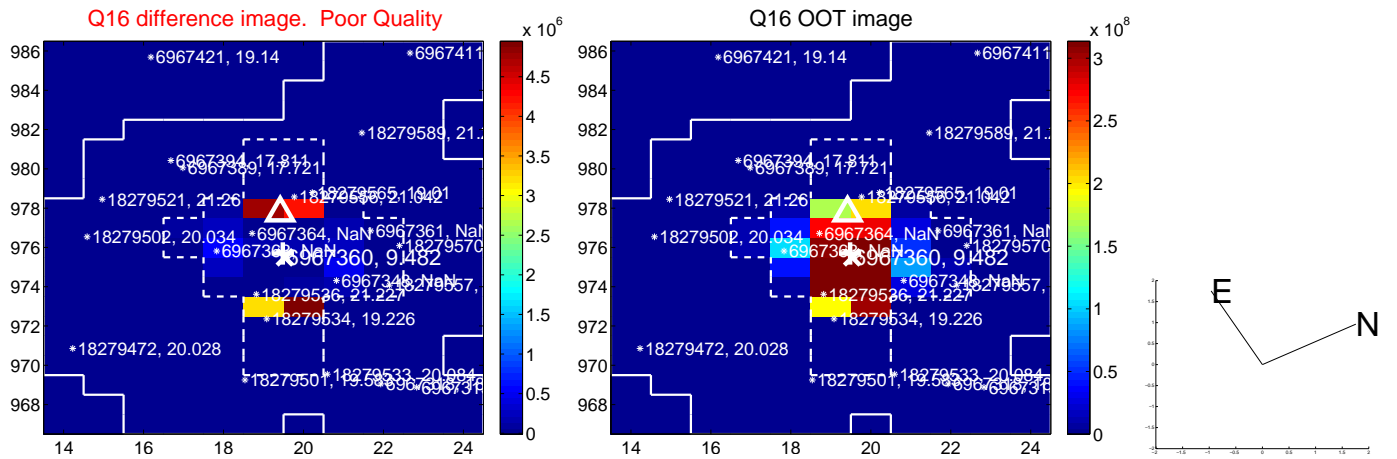
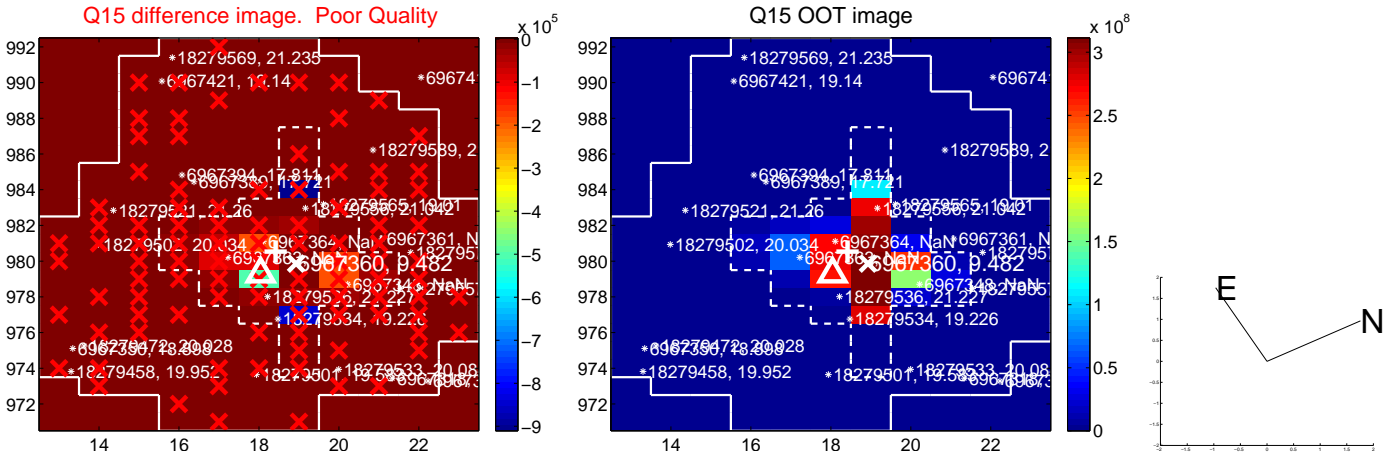
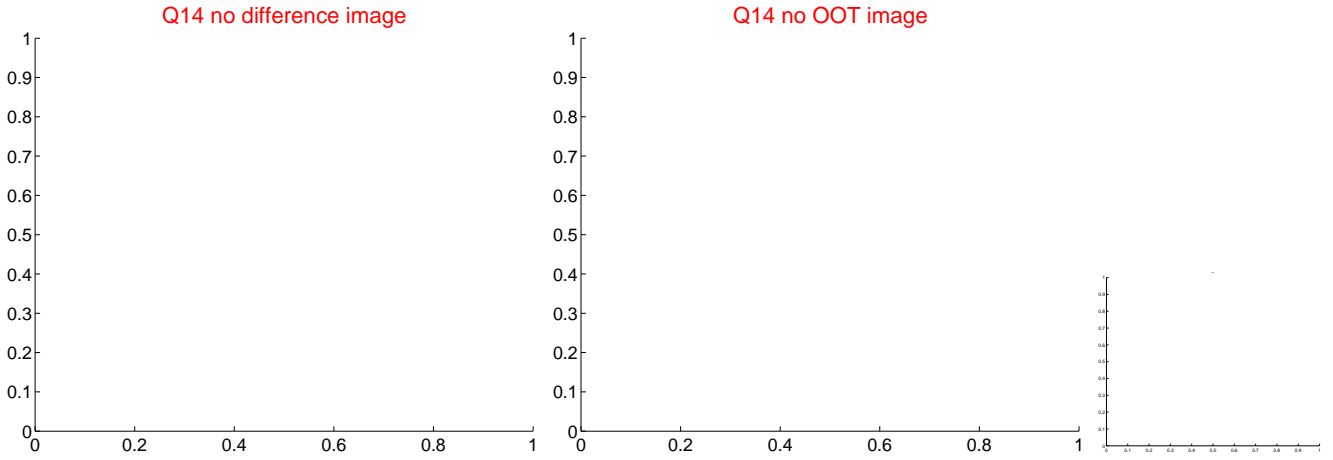
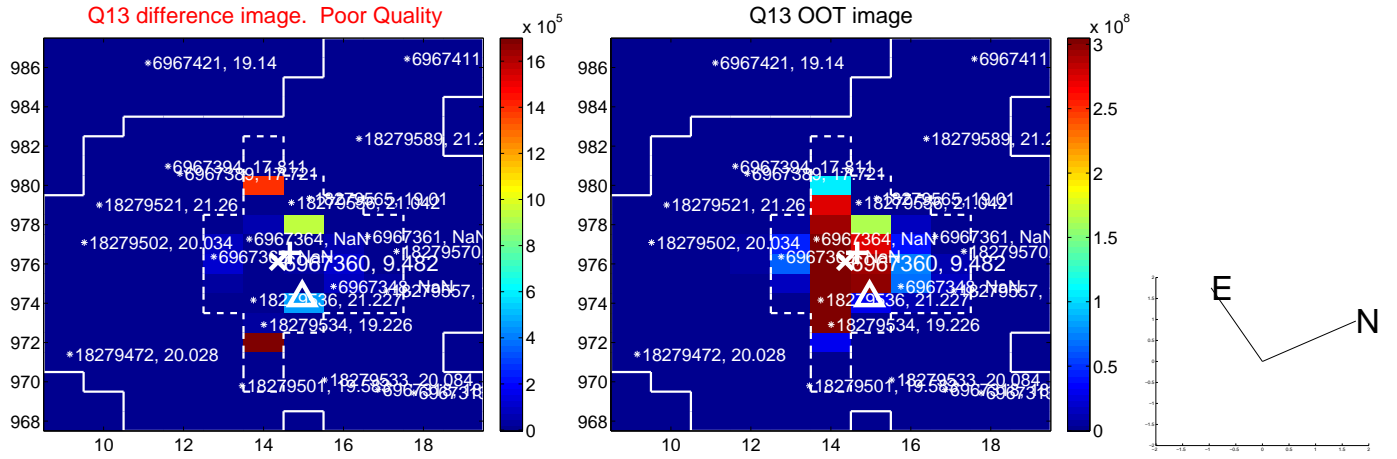
Q12 no difference image



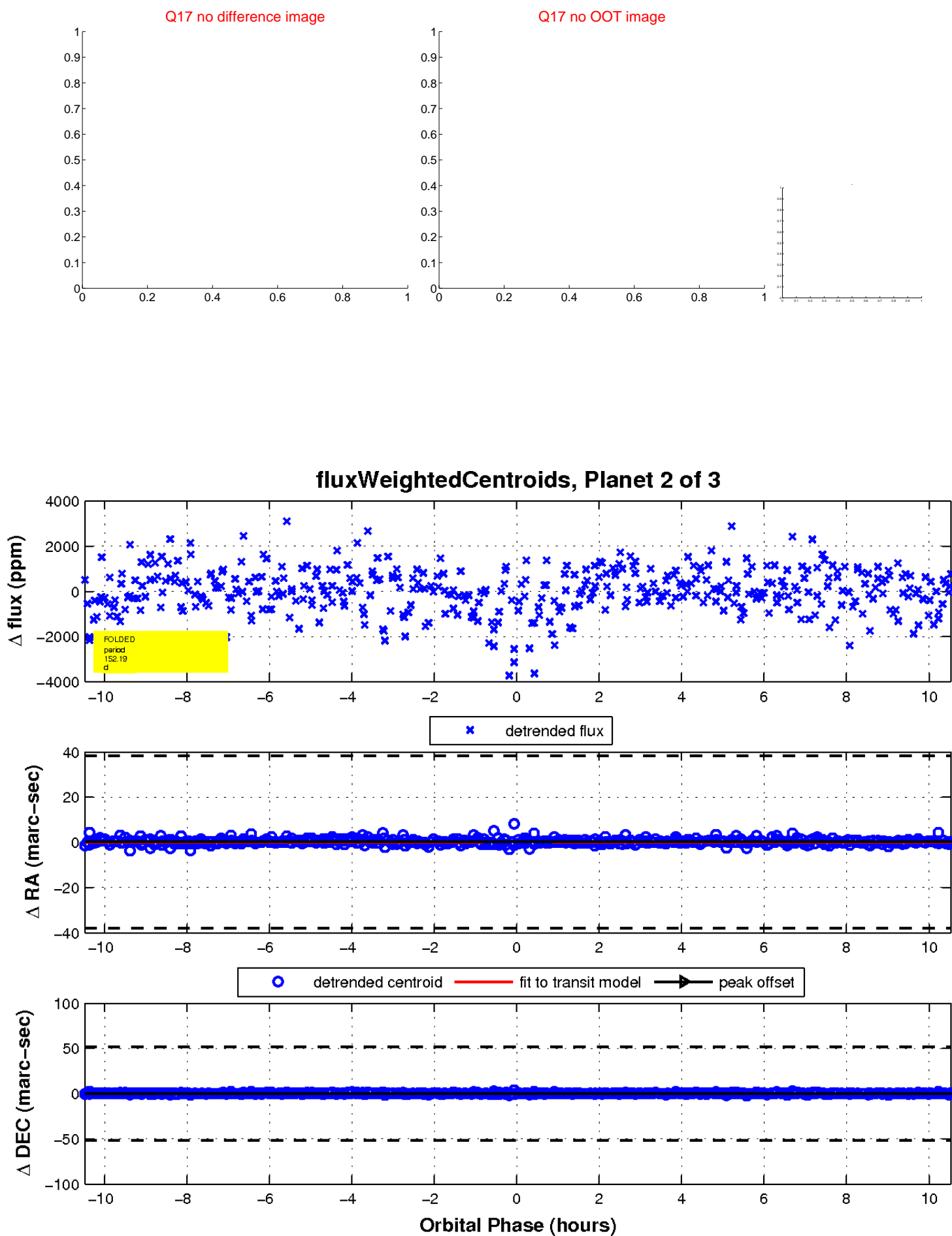
Q12 no OOT image



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

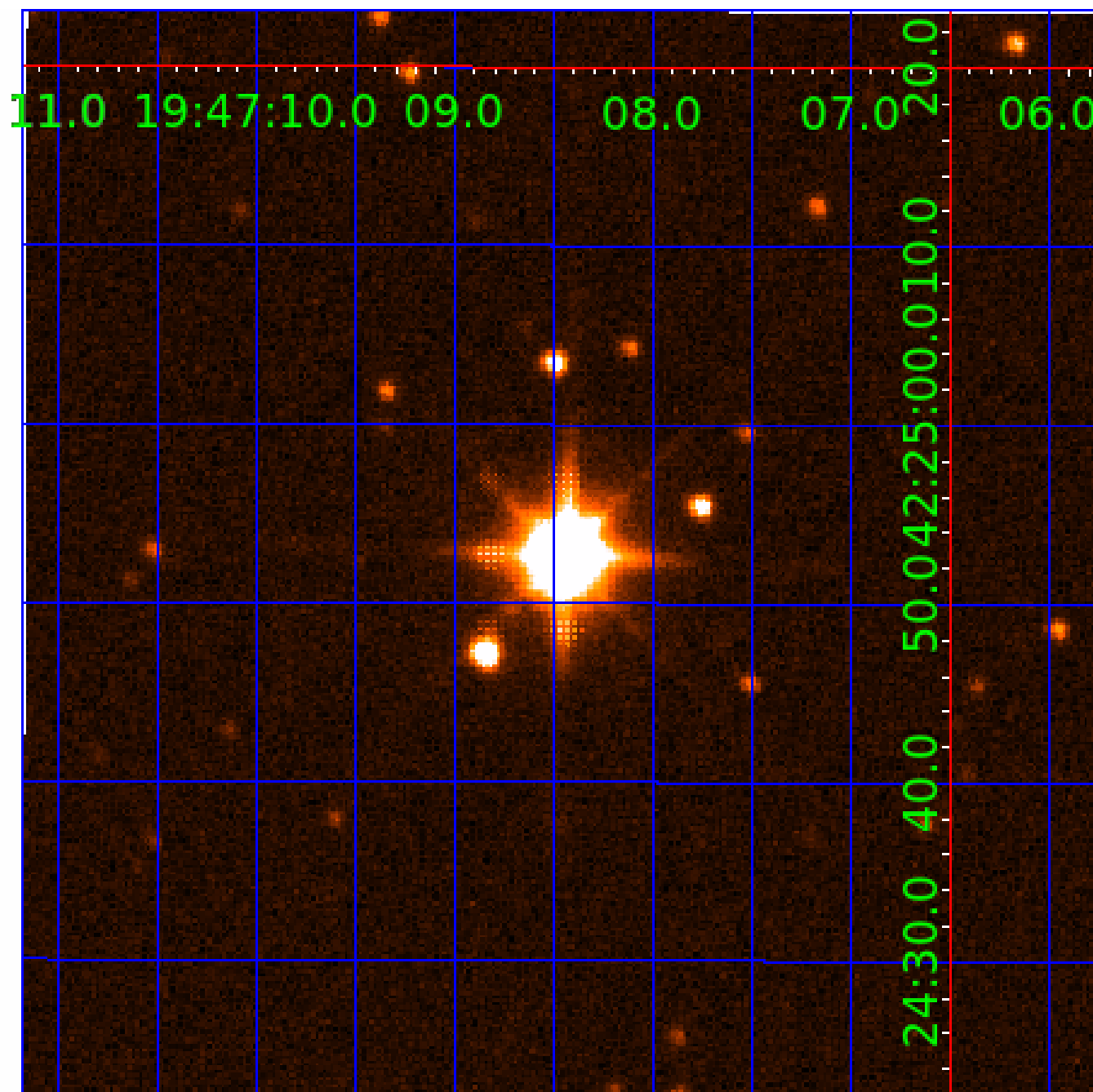


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006967360

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})
006967360-01	OBS	No	0.715321	131.662930	92.8	2.699	8.0	7.9	3.22	8319	3.62	112654.49
006967360-02	OBS	No	152.194522	159.997016	1877.1	3.513	7.7	8.0	3.22	8319	25.52	88.69
006967360-03	OBS	No	19.711673	143.021814	705.3	1.798	7.6	7.6	3.22	8319	9.76	1353.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006967360-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006967360-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006967360-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

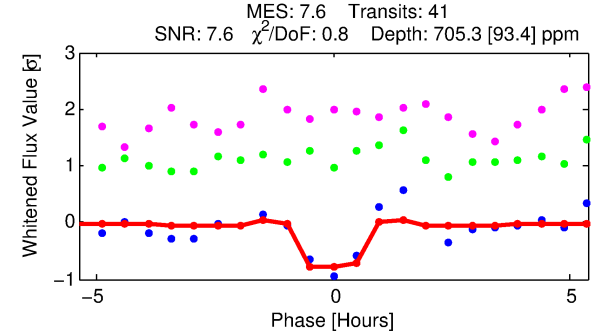
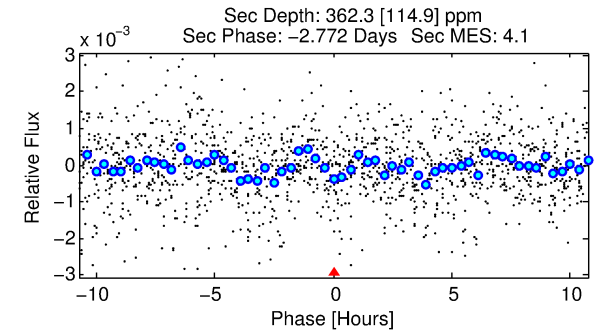
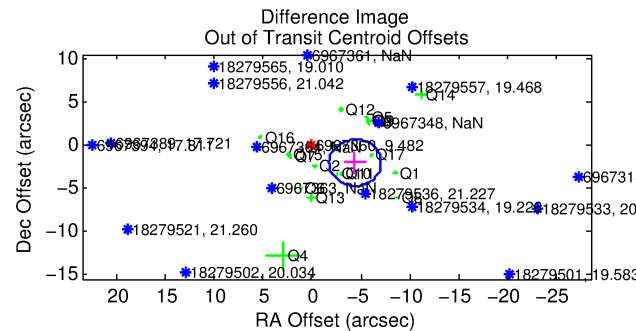
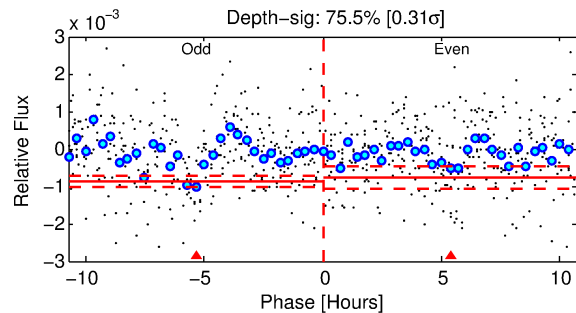
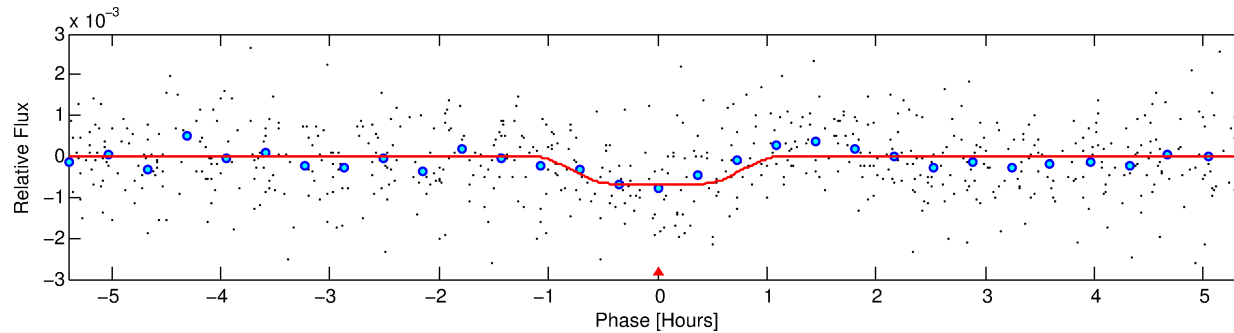
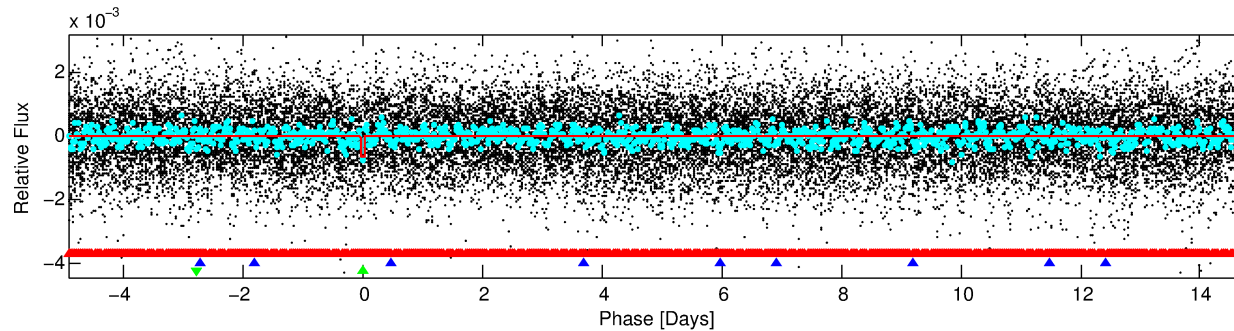
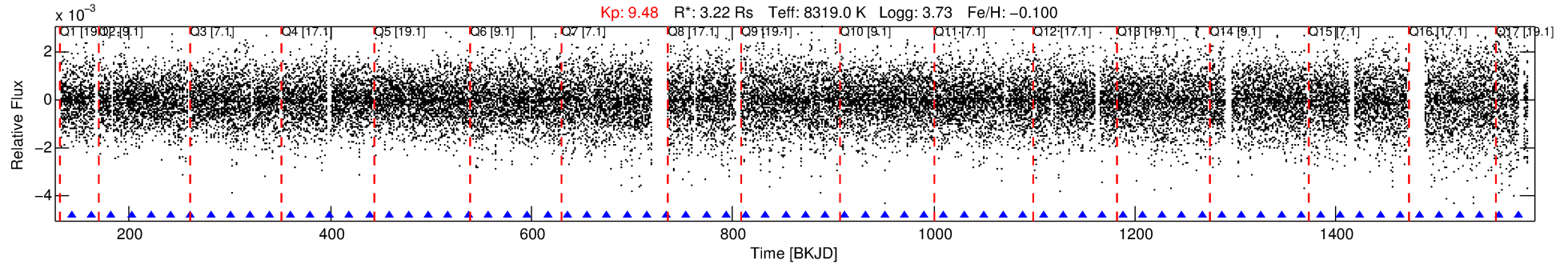
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006967360-03

No Significant Match Found

DV One-Page Summary

KIC: 6967360 Candidate: 3 of 3 Period: 19.712 d



DV Fit Results:

Period = 19.71167 [0.00012] d

Epoch = 143.0218 [0.0046] BKJD

$R_p/R^* = 0.0278$ [0.0097]

$a/R^* = 45.94$ [92.86]

$b = 0.87$ [0.58]

$\text{Seff} = 1353.48$ [994.84]

$T_{\text{eq}} = 1547$ [284] K

$R_p = 9.76$ [5.60] R_e

$a = 0.1813$ [0.0803] AU

$\text{Ag} = 68.73$ [71.88] [0.94 σ]

$T_{\text{eff}} = 6885$ [1353] K [3.86 σ]

DV Diagnostic Results:

ShortPeriod-sig: 100.0% [140.56 σ]

LongPeriod-sig: 100.0% [805.57 σ]

ModelChiSquare2-sig: 84.7%

ModelChiSquareGof-sig: 100.0%

Bootstrap-pfa: 6.05e-11

RollingBand-fgt: 1.00 [40/40]

GhostDiagnostic-chr: N/A

Centroid-sig: 98.7%

Centroid-so: 0.088 arcsec [0.45 σ]

OotOffset-rm: 4.844 arcsec [5.45 σ]

KicOffset-rm: 3.258 arcsec [3.32 σ]

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

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

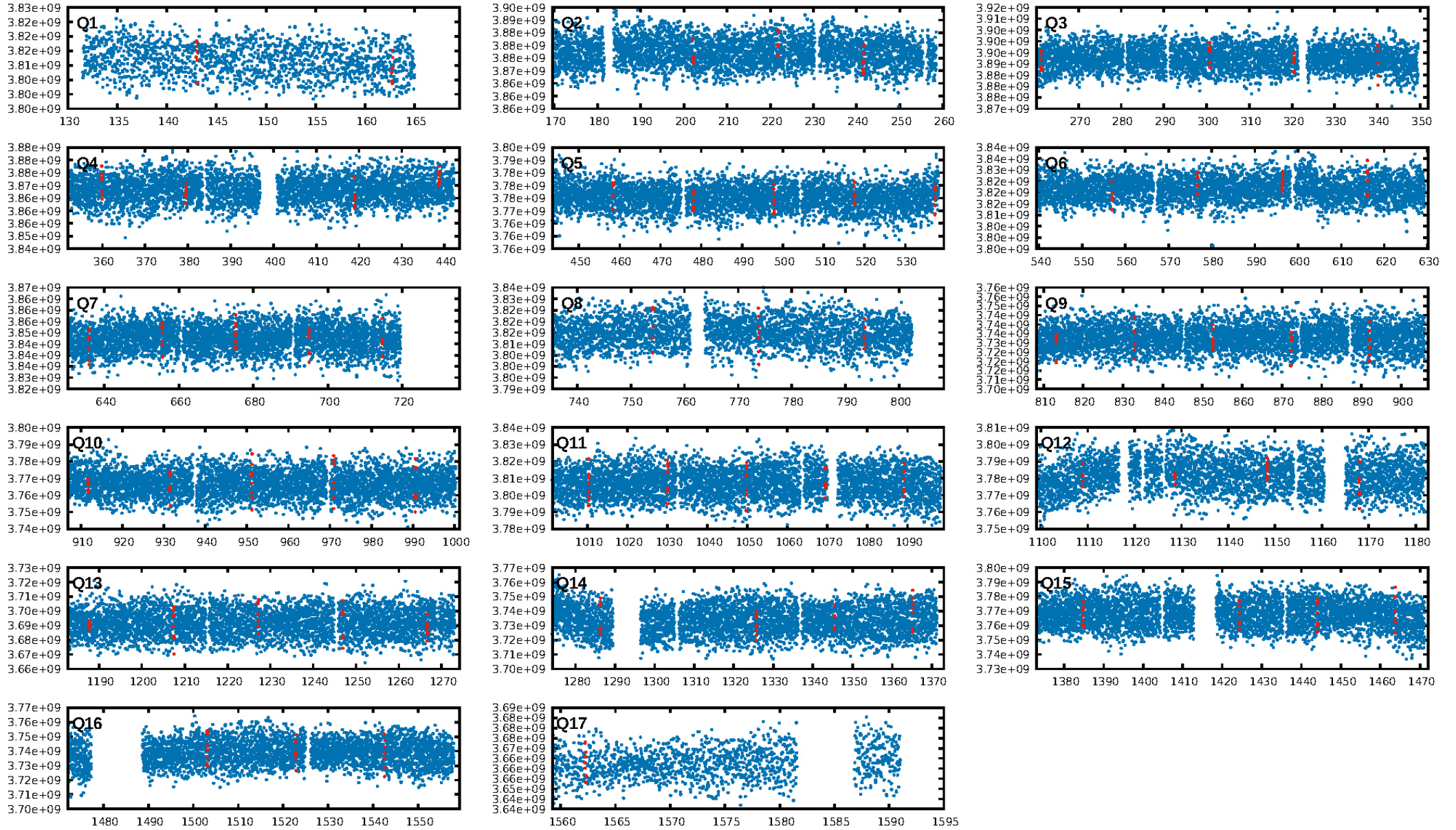
DiffImageQuality-fgm: 0.00 [0/17]

DiffImageOverlap-fno: 0.59 [10/17]

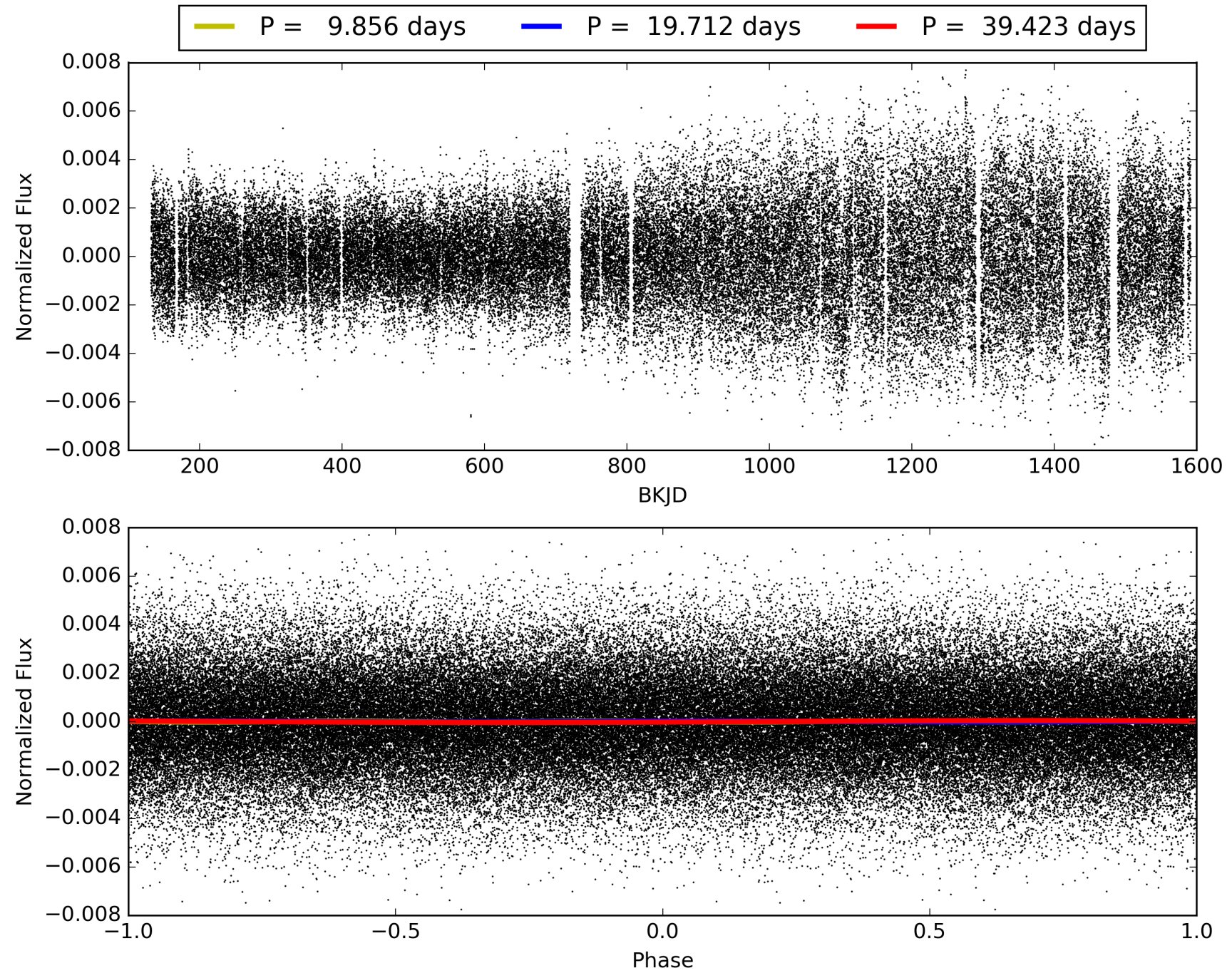
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:27:50 Z

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

TCE 006967360-03, PDC Light Curves

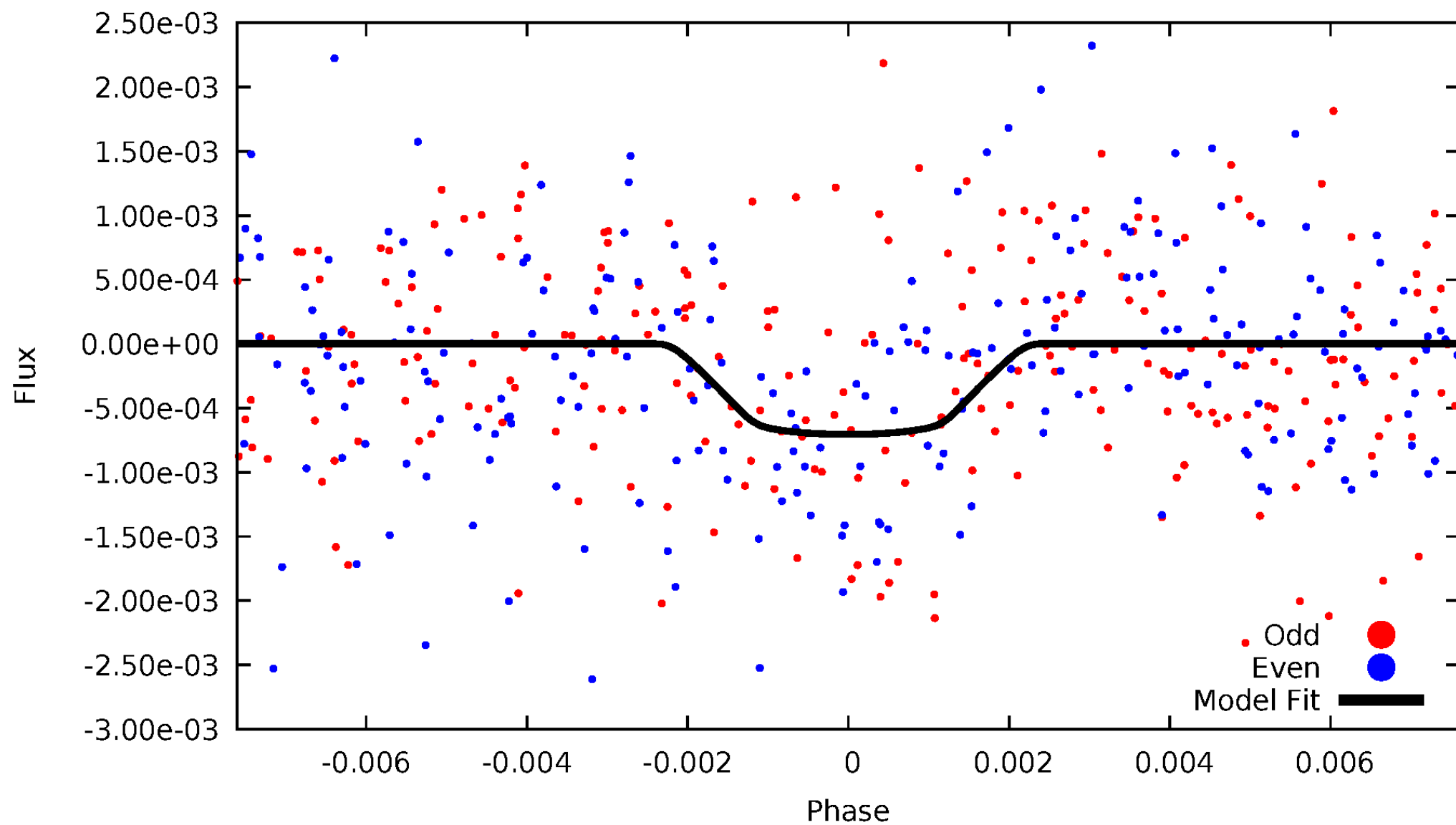


TCE 006967360-03



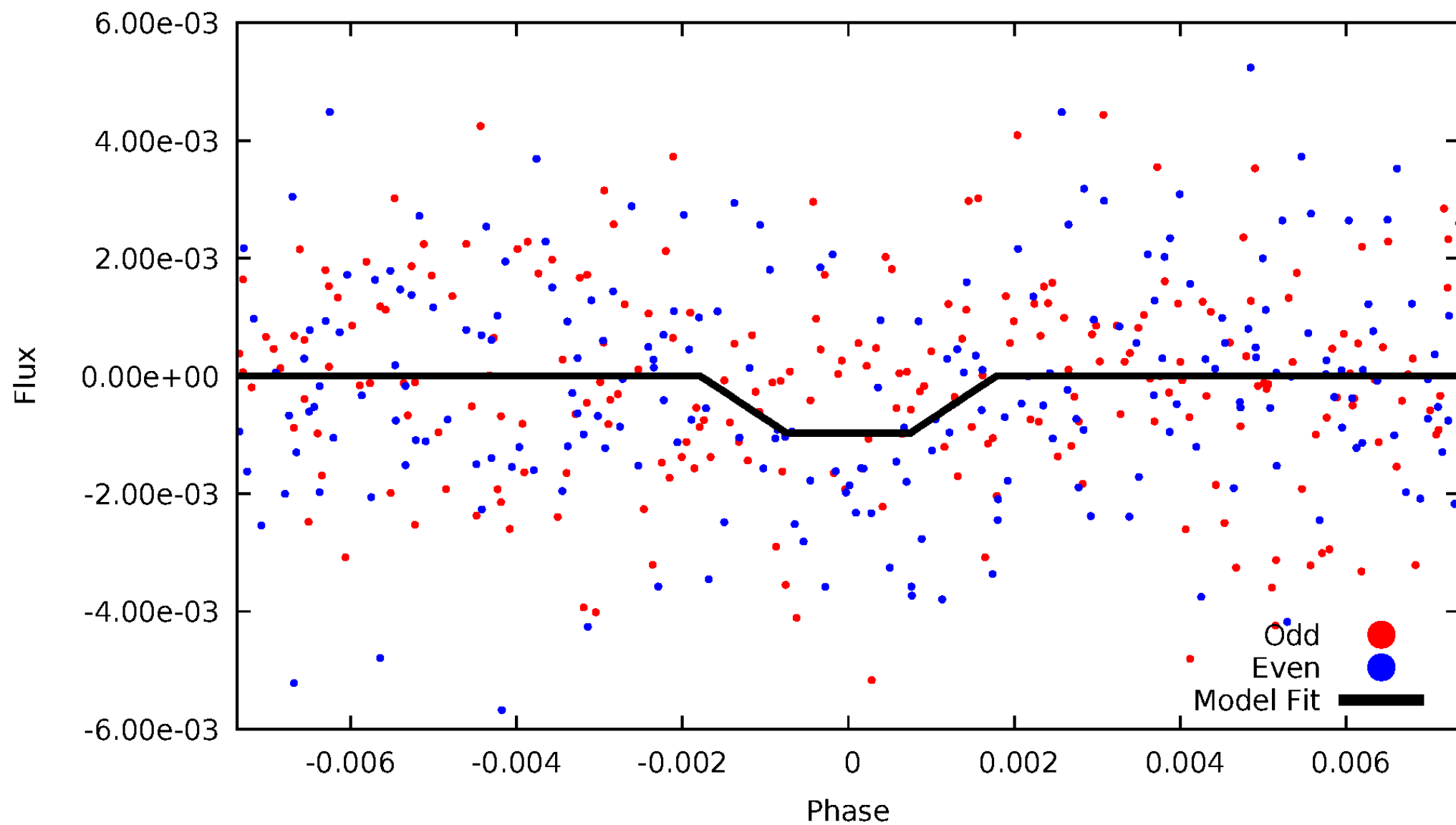
DV Odd/Even

TCE 006967360-03

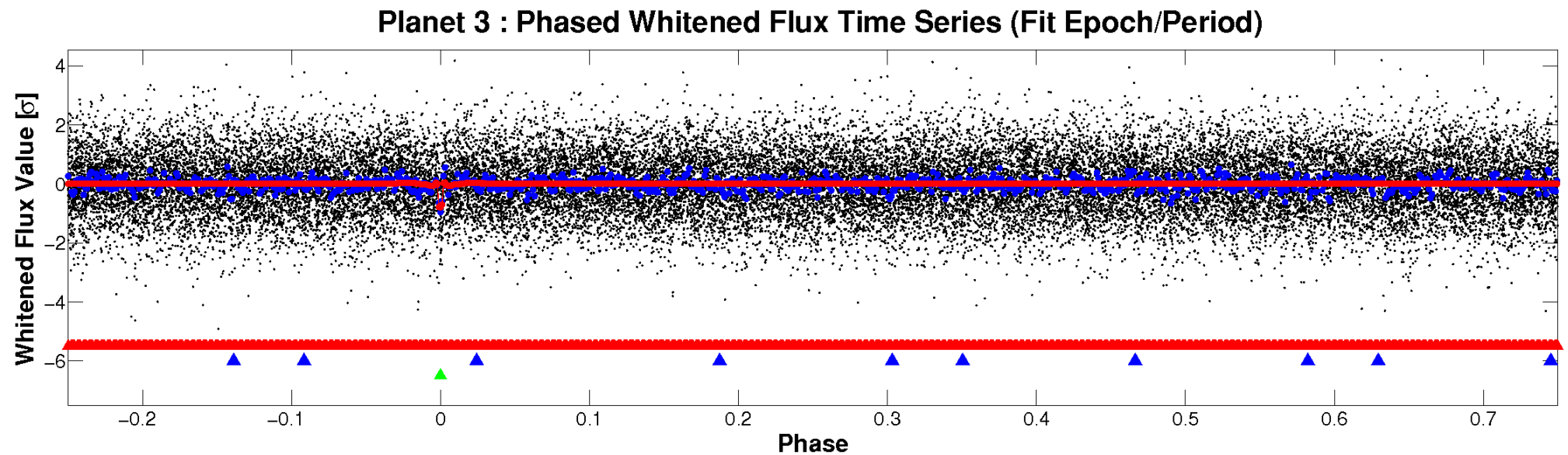
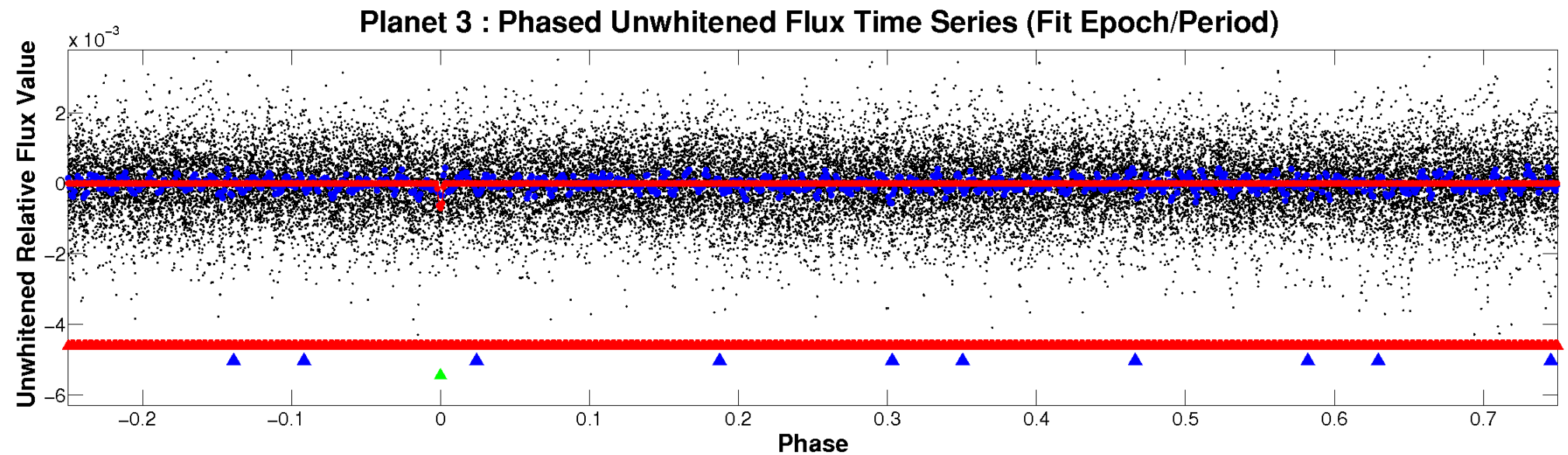


ALT Odd/Even

TCE 006967360-03

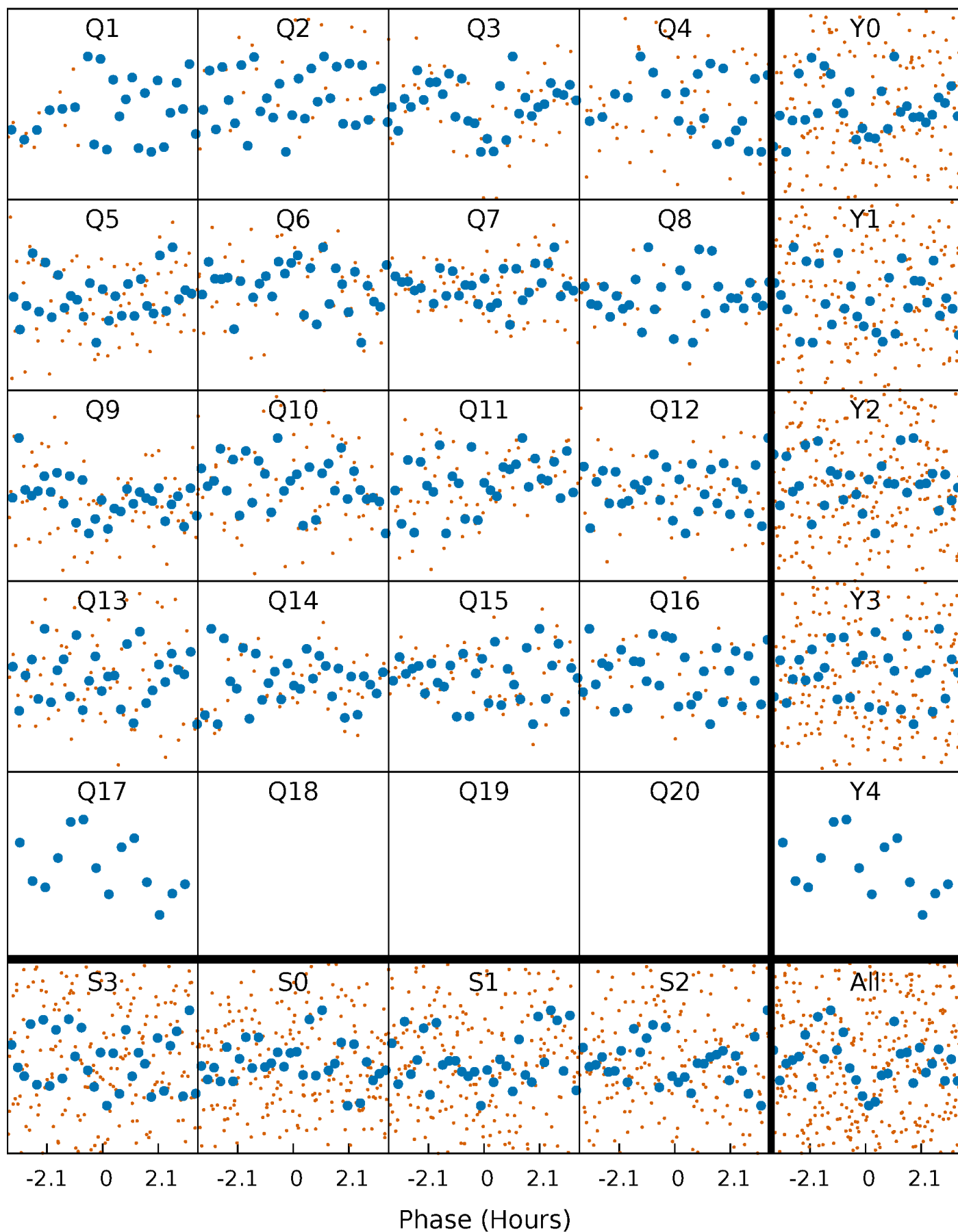


Non-Whitened Vs. Whitened Light Curve



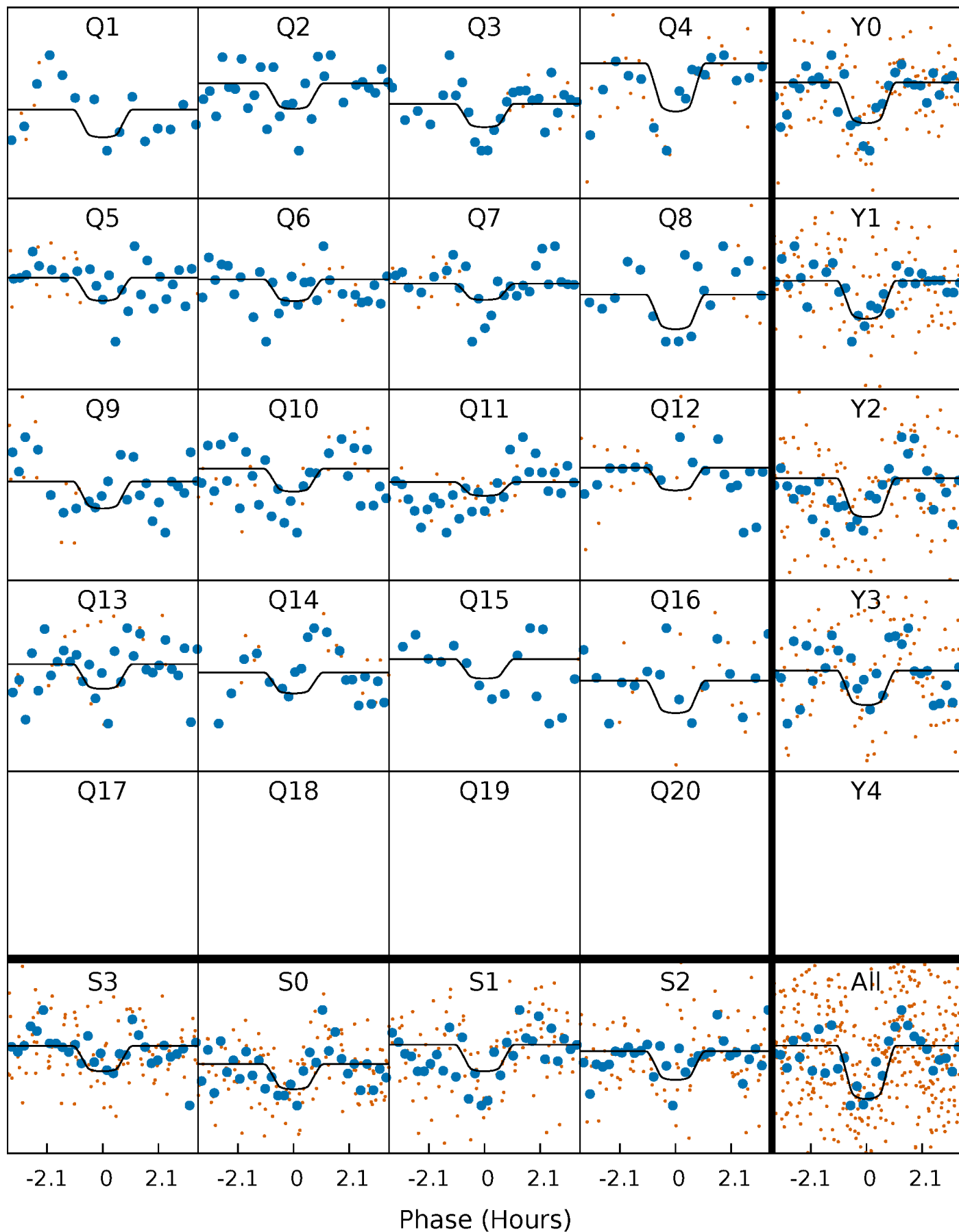
PDC Quarter-Phased Transit Curves

TCE 006967360-03 P= 19.711673 Days $T_0=143.021814$ (BKJD)



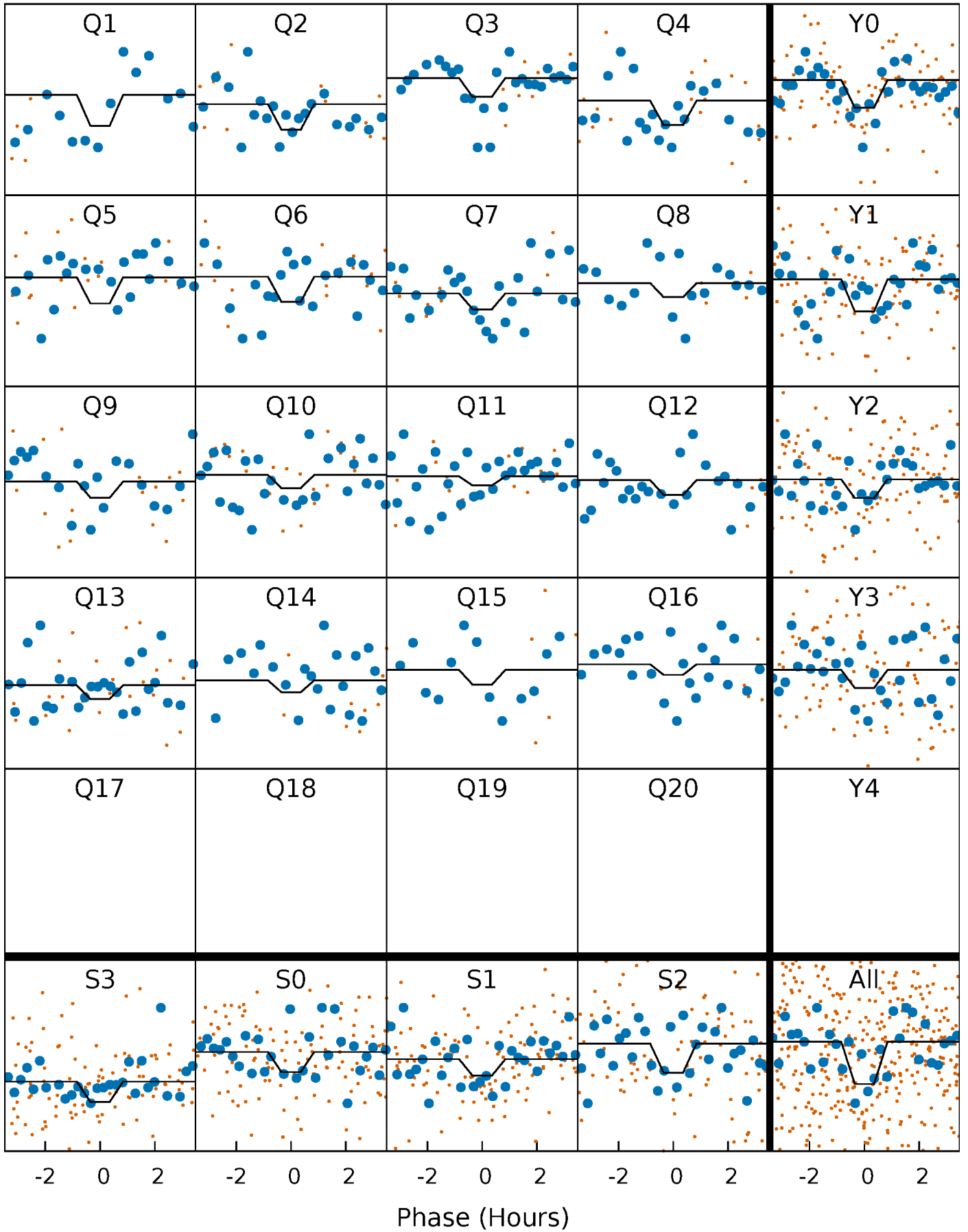
DV Quarter-Phased Transit Curves

TCE 006967360-03 P= 19.711673 Days $T_0=143.021814$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

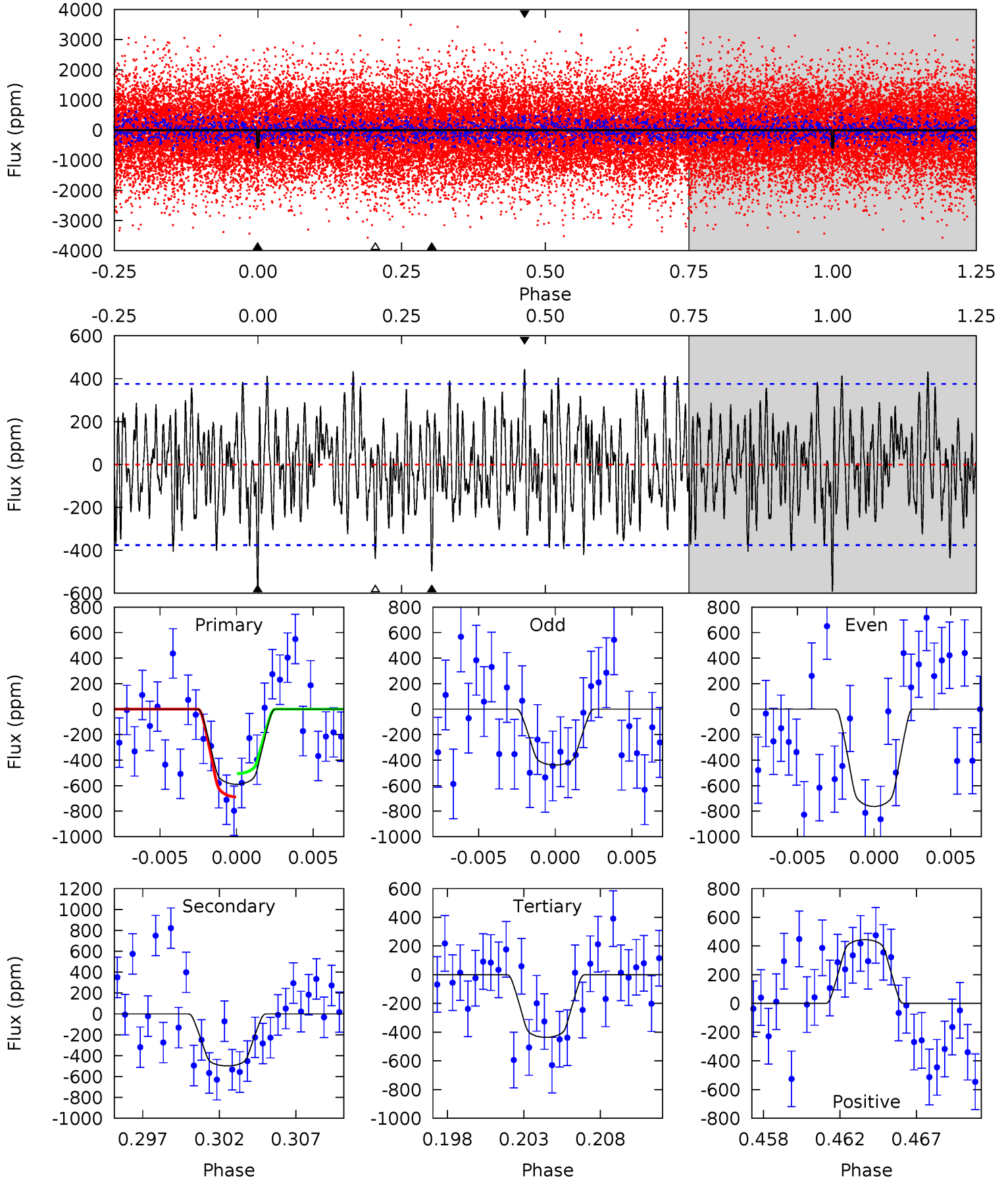
TCE 006967360-03 P= 19.711521 Days $T_0=143.027817$ (BKJD)



DV Model-Shift Uniqueness Test

006967360-03, P = 19.711673 Days, E = 123.310141 Days

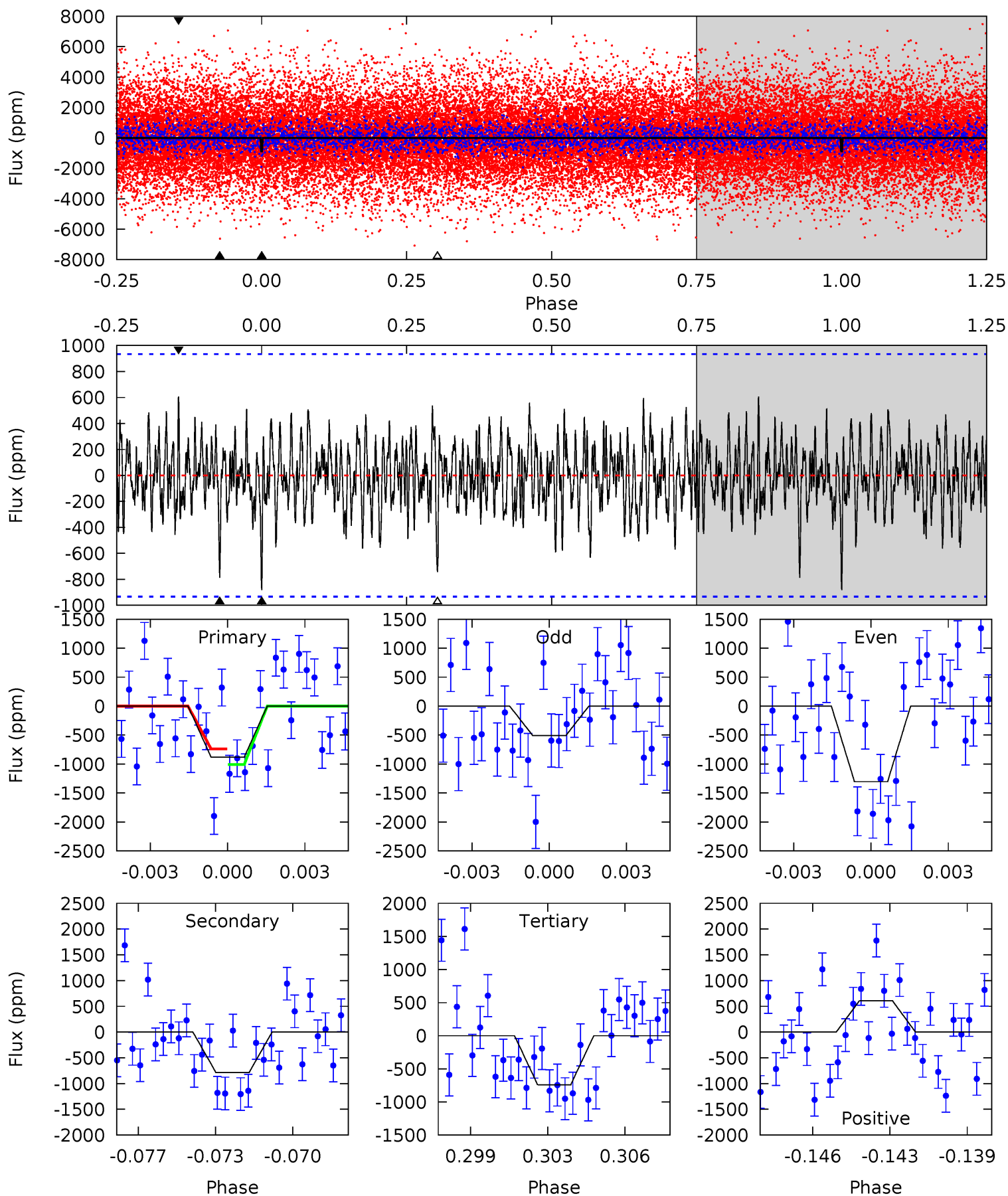
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.11	6.86	6.00	6.11	5.17	2.83	2.29	2.10	1.99	0.85	0.74	2.24	0.74	0.43	1.26



Alt Model-Shift Uniqueness Test

006967360-03, P = 19.711521 Days, E = 123.316296 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.93	4.40	4.14	3.39	5.23	2.92	1.22	0.79	1.54	0.26	1.01	2.23	1.21	0.41	0.75



Stellar Parameters For KIC 006967360

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8319^{+230}_{-374}	$3.733^{+0.420}_{-0.140}$	$-0.100^{+0.300}_{-0.400}$	$3.220^{+0.978}_{-1.467}$	$2.046^{+0.387}_{-0.473}$	$0.086^{+0.349}_{-0.036}$
	+3%/-4%	+11%/-4%	+300%/-400%	+30%/-46%	+19%/-23%	+404%/-42%
Source	KIC0	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 006967360-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-498 ± 73	$8.83^{+4.23}_{-3.43}$	2086^{+193}_{-233}	7190^{+2307}_{-1102}	116^{+186}_{-63}
Alt.	-787 ± 179	$10.03^{+4.31}_{-3.85}$	2073^{+210}_{-239}	7684^{+2372}_{-1225}	139^{+228}_{-74}

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 $A_{obs} \gg 1.0$

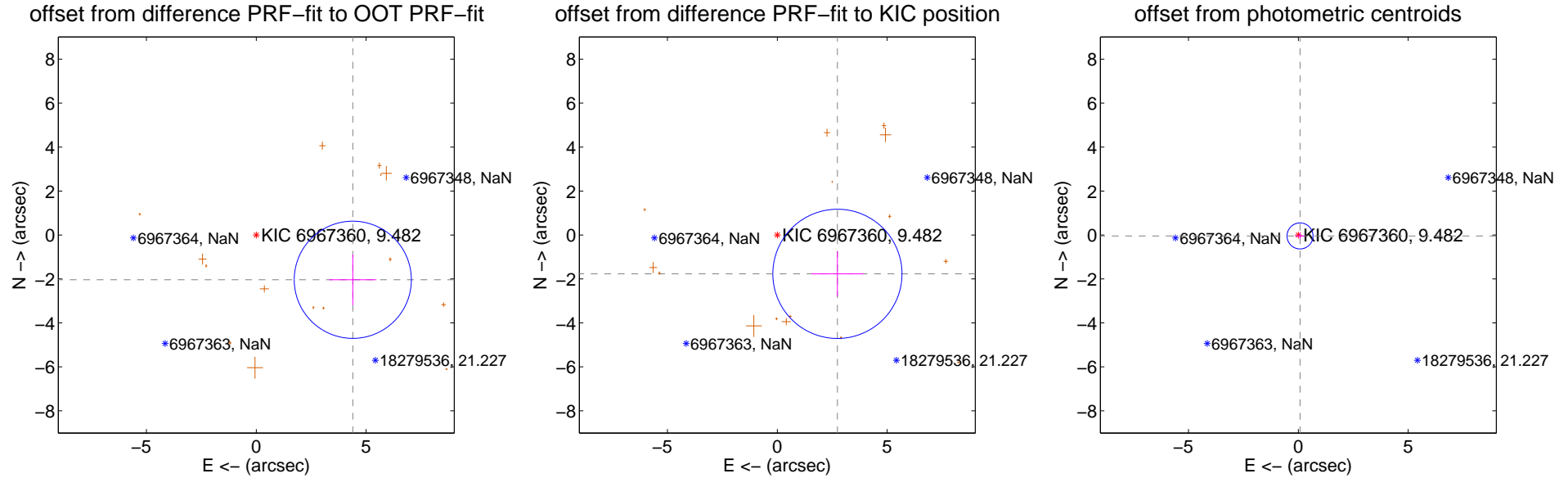
DV Centroid Data

Supplemental centroid analysis for 006967360-03. **Kepler magnitude: 9.48.** Transit SNR 7.59

There are 0 quarters with good PRF difference image offsets

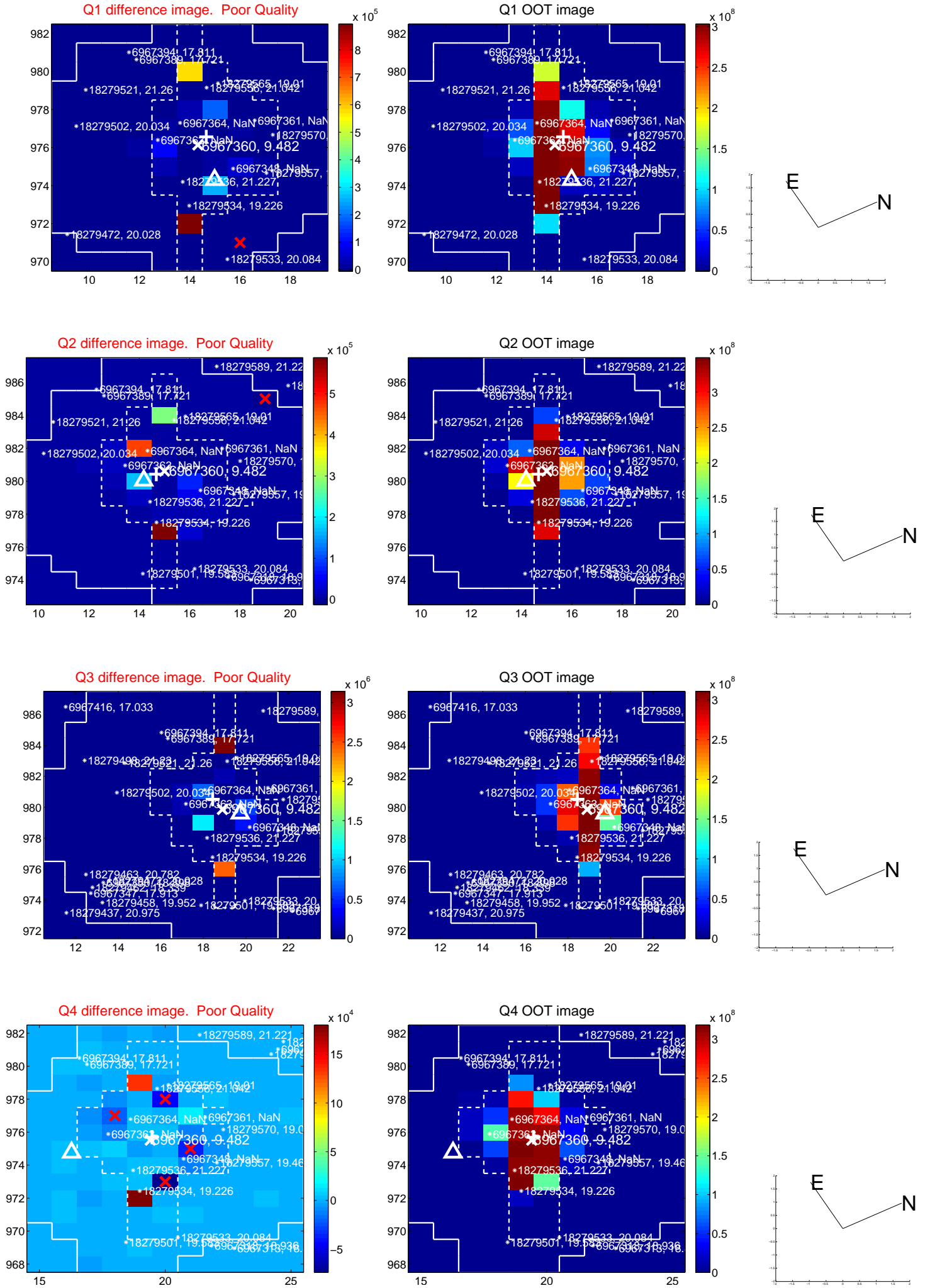
The OOT PRF centroid is offset from the target star catalog position by about 2.19 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.844 ± 0.889	5.45	-4.395 ± 1.074	-2.038 ± 1.150
PRF-fit source offset from KIC position	3.258 ± 0.980	3.32	-2.737 ± 1.184	-1.768 ± 1.027
photometric centroid source offset	0.09 ± 0.20	0.45	-0.08 ± 0.21	-0.04 ± 0.14

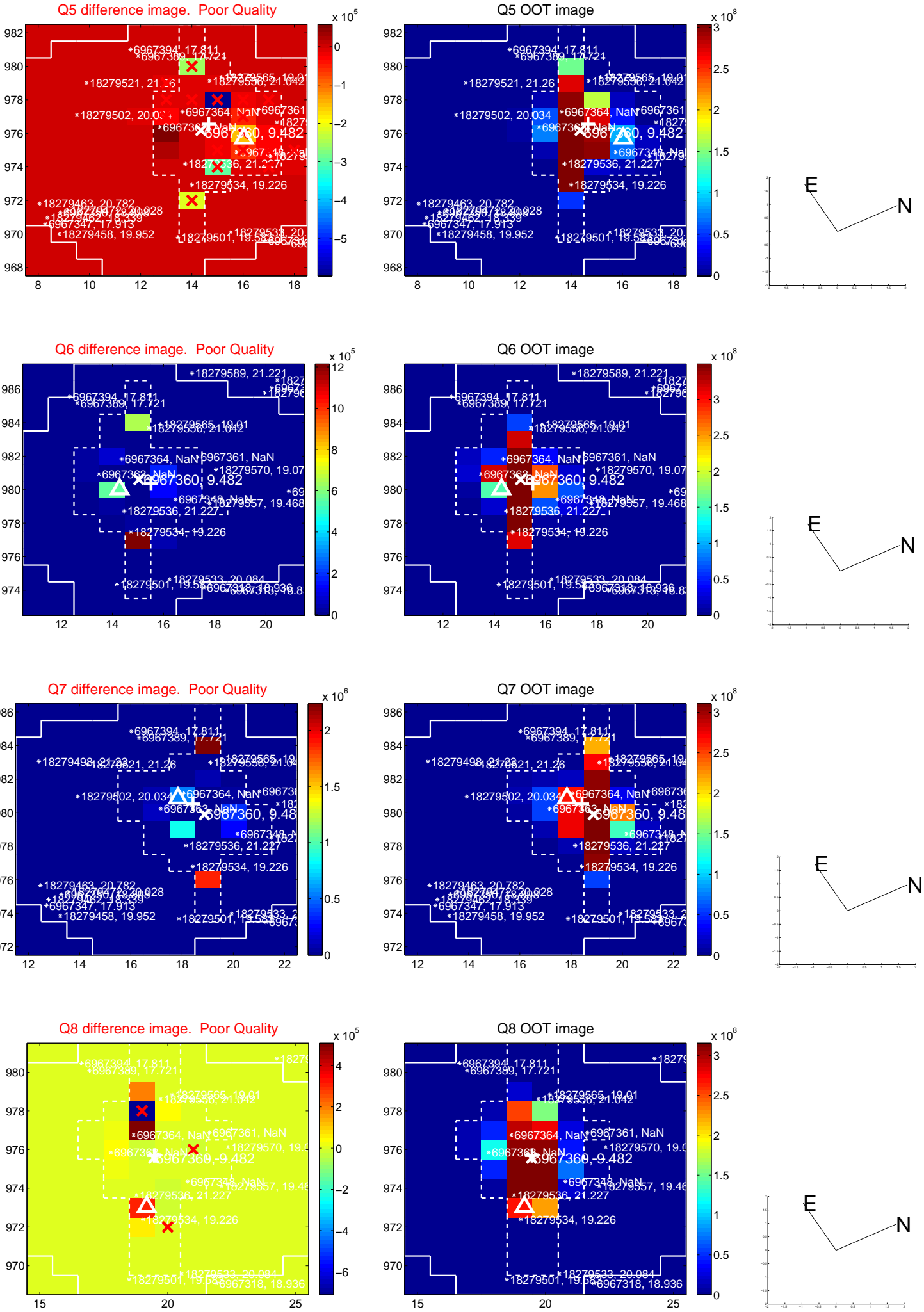


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

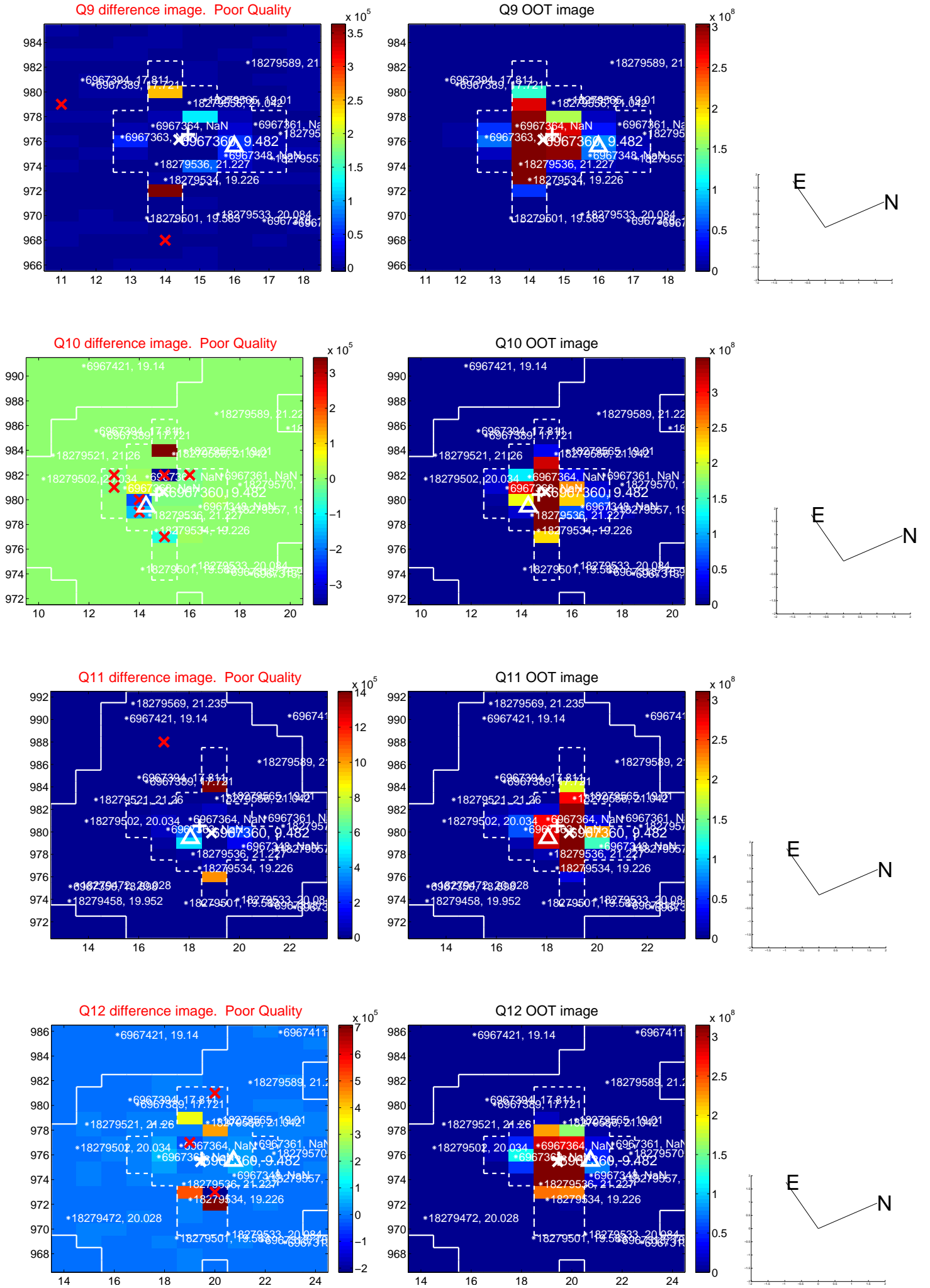
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



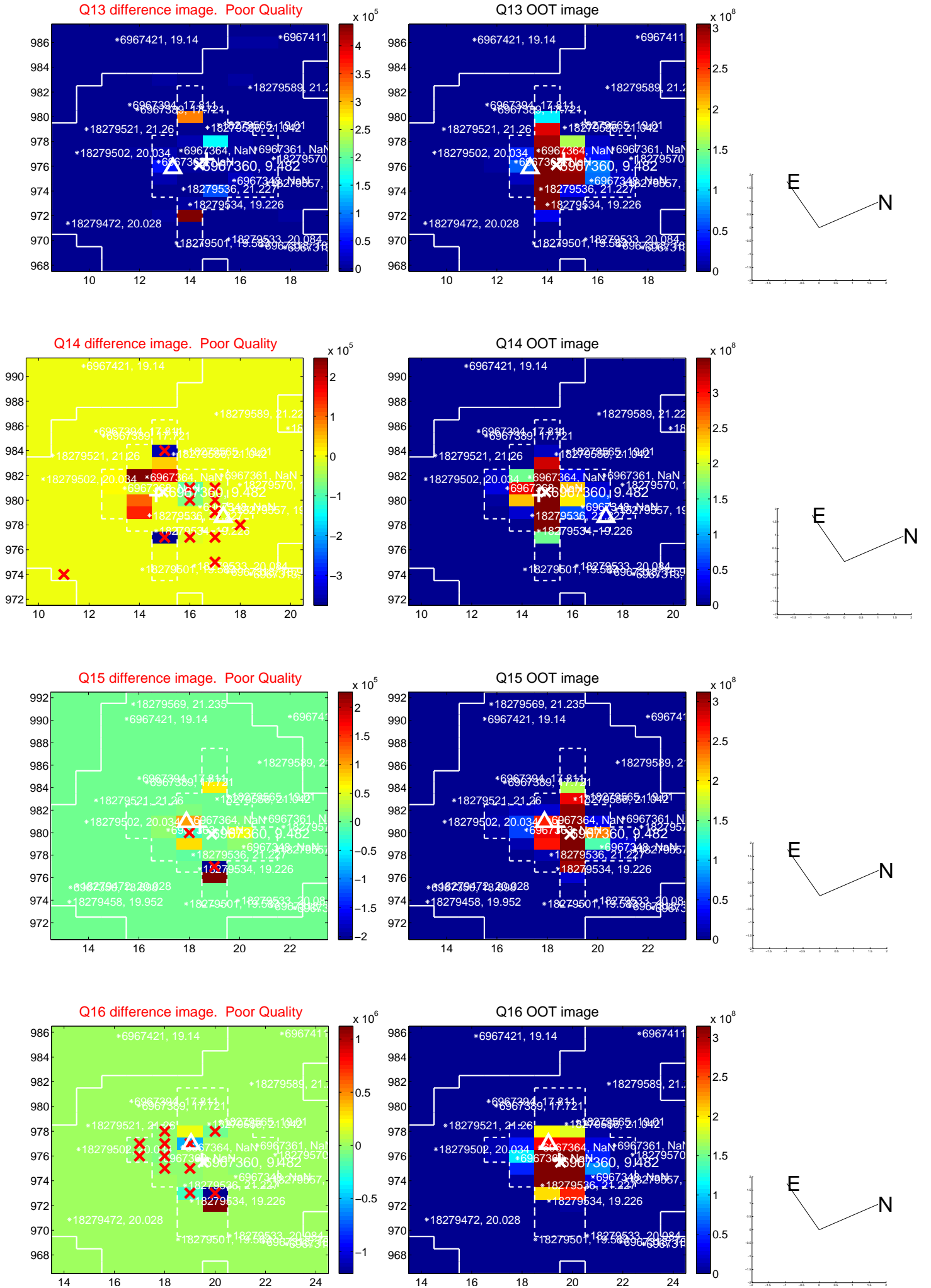
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



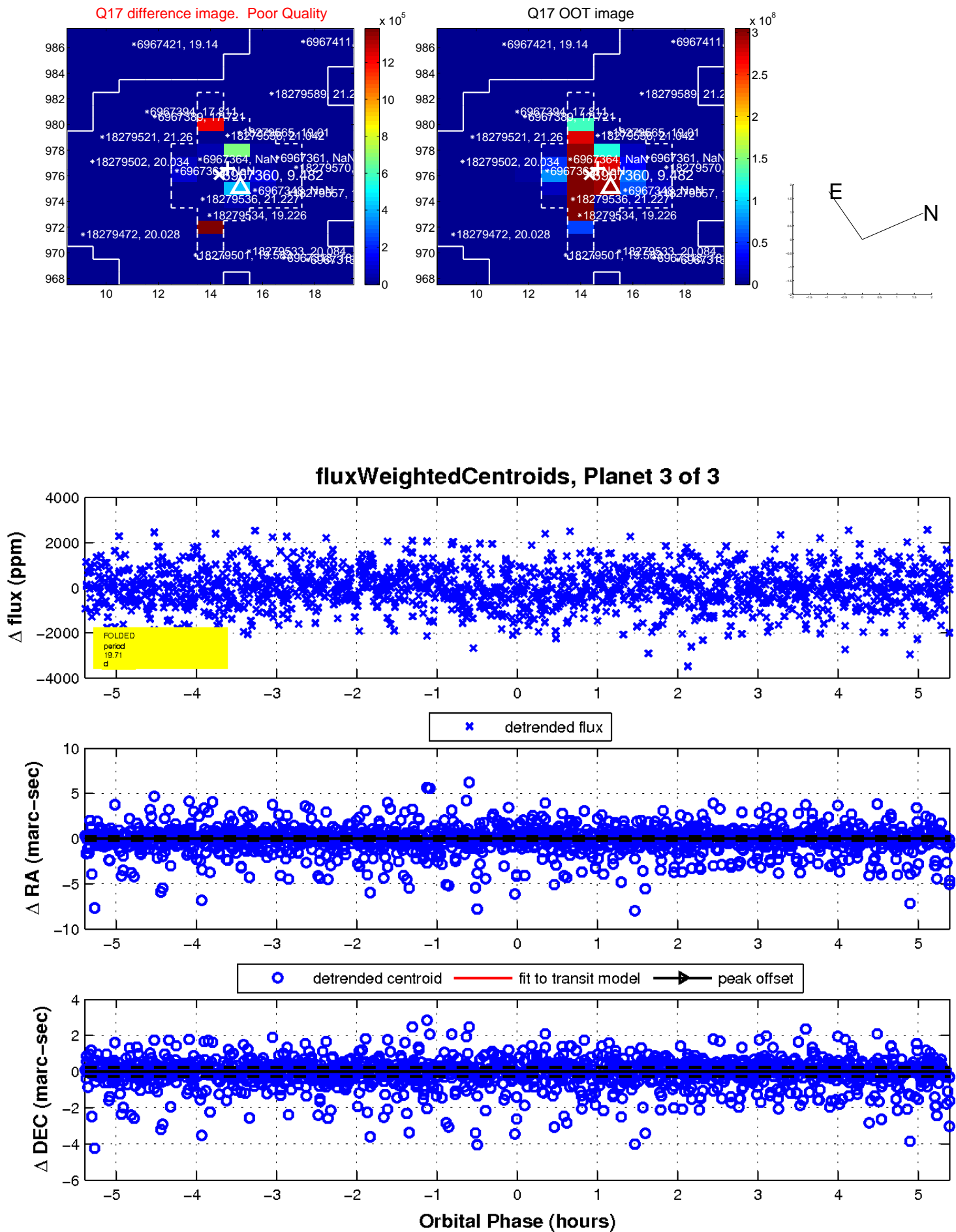
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

