

KIC 006694649

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})
006694649-01	OBS	No	1.038500	132.492882	109.8	2.500	10.5	11.9	2.72	7803	3.32	38311.06
006694649-02	OBS	No	0.640198	131.825139	86.7	2.490	9.8	11.0	2.72	7803	2.94	73020.95
006694649-03	OBS	No	0.554695	131.625860	105.9	6.656	10.5	14.1	2.72	7803	2.83	88401.78

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006694649-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006694649-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006694649-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_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.

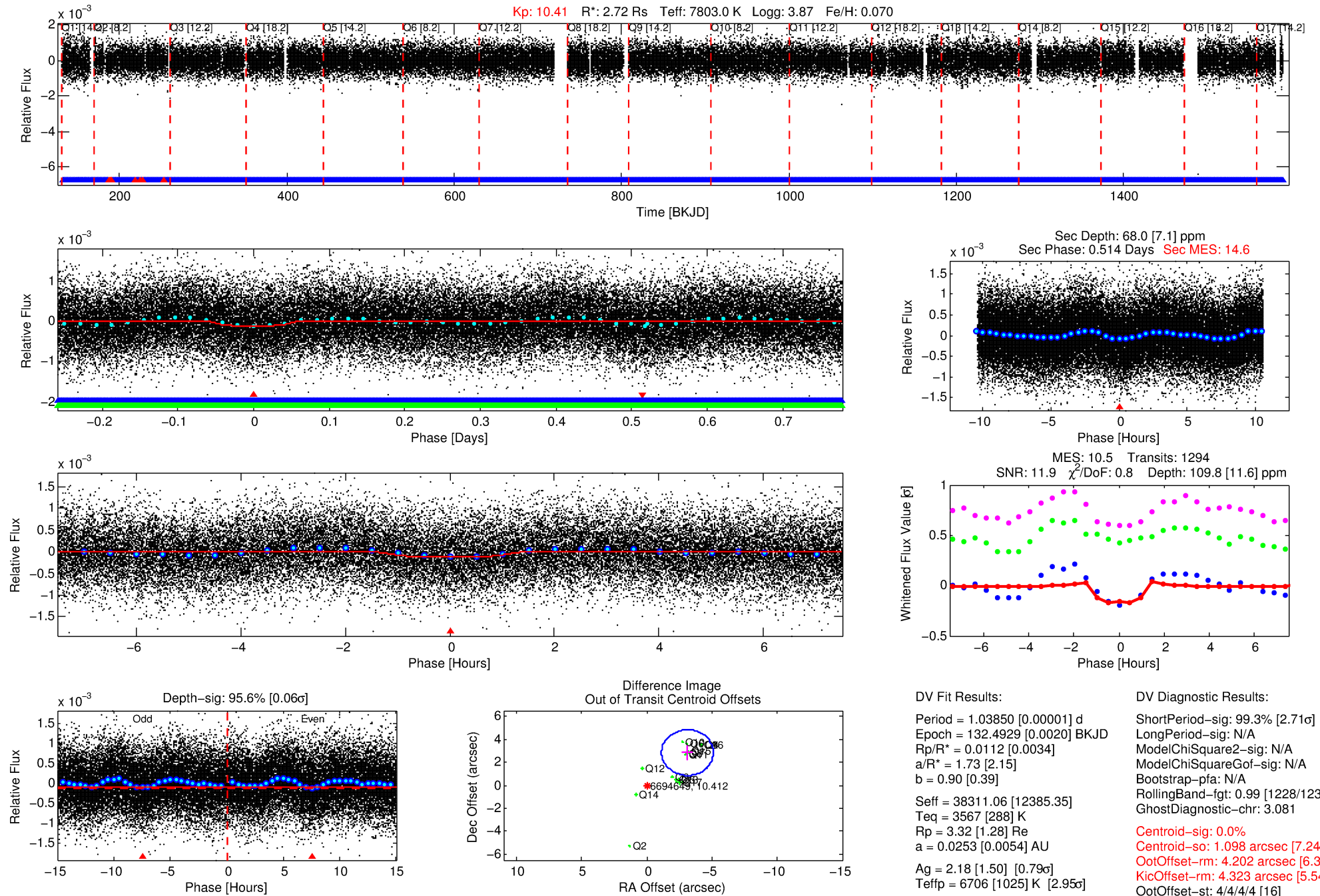
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006694649-01

No Significant Match Found

DV One-Page Summary

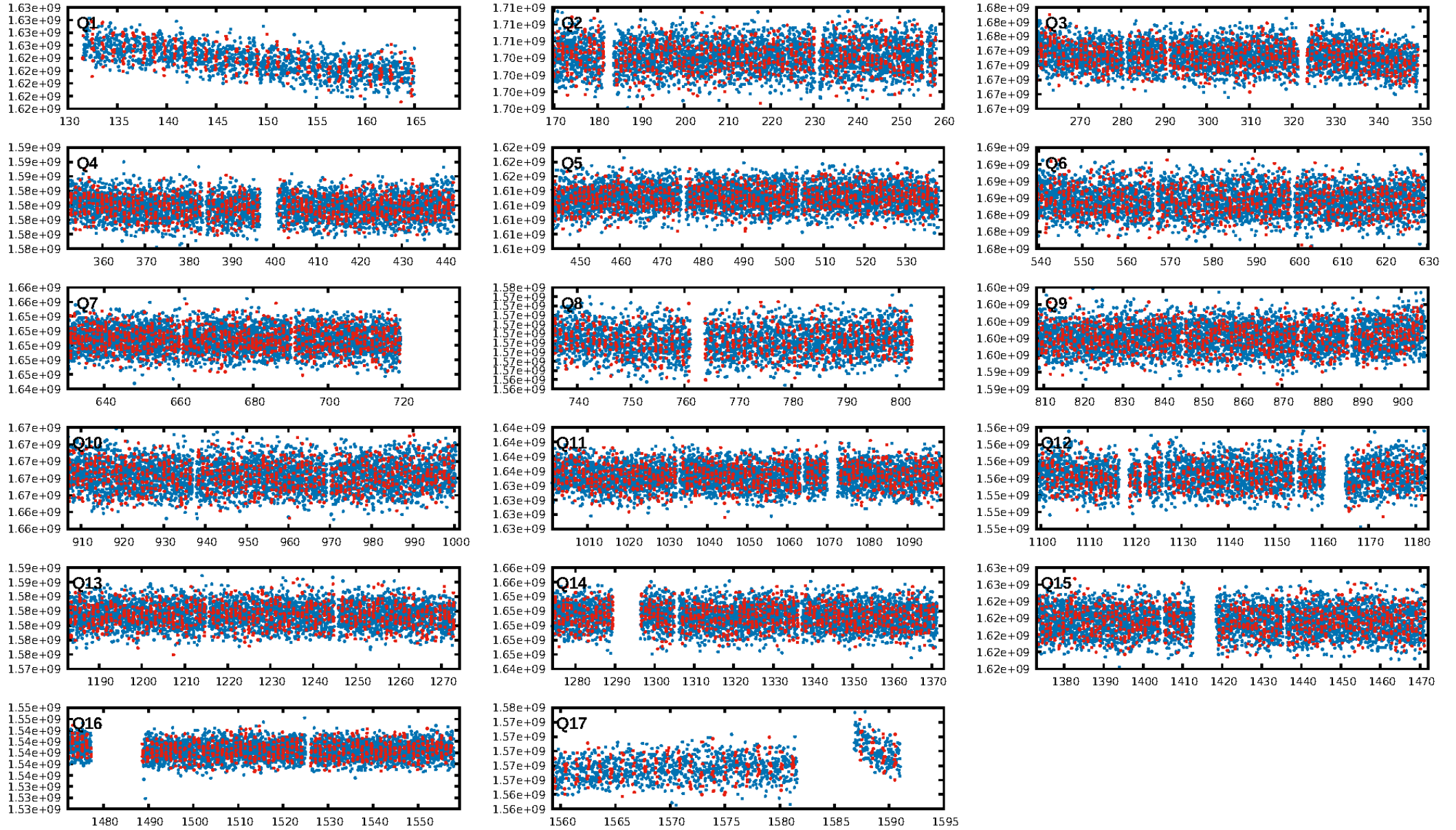
KIC: 6694649 Candidate: 1 of 3 Period: 1.039 d



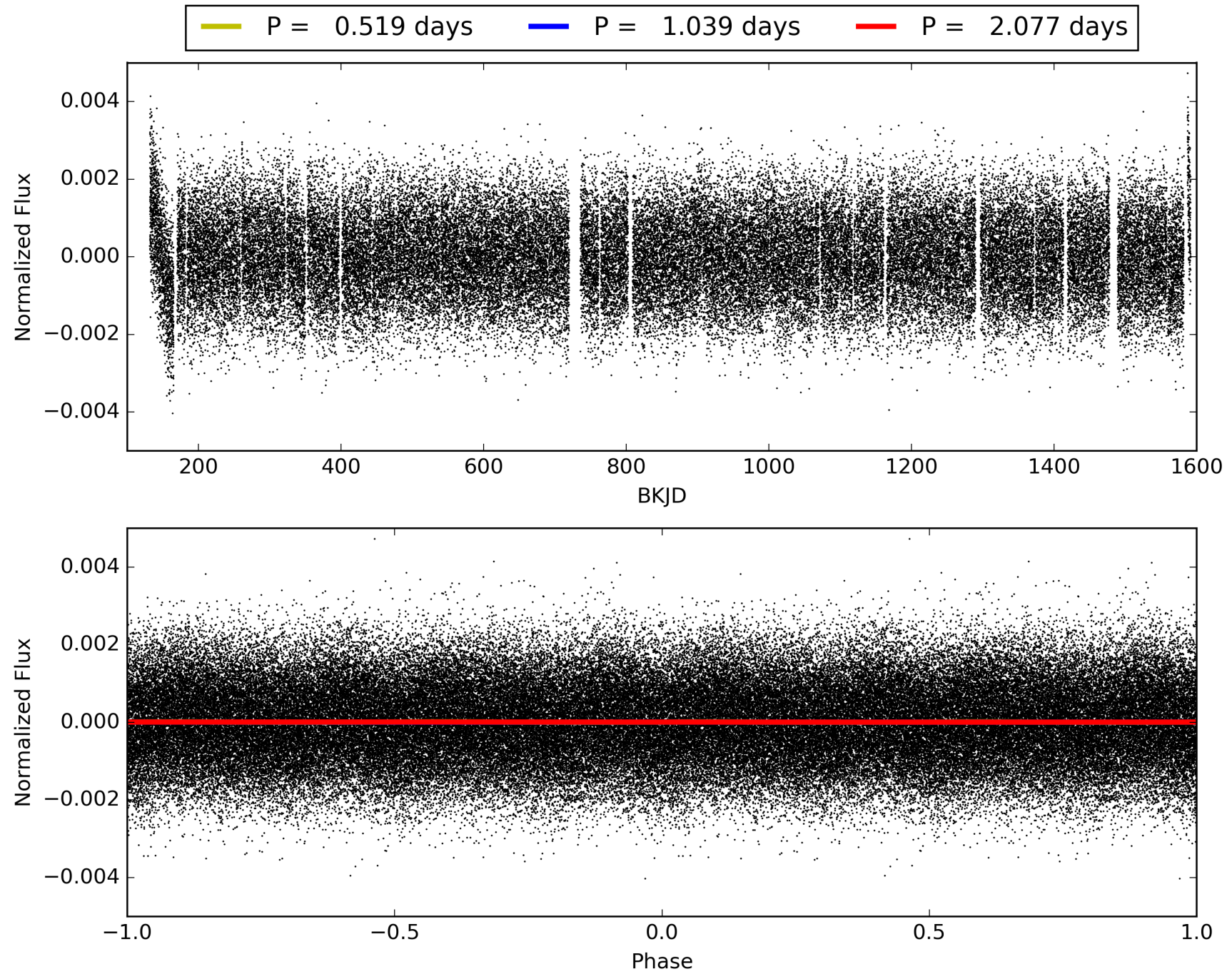
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 06:32:23 Z

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

TCE 006694649-01, PDC Light Curves

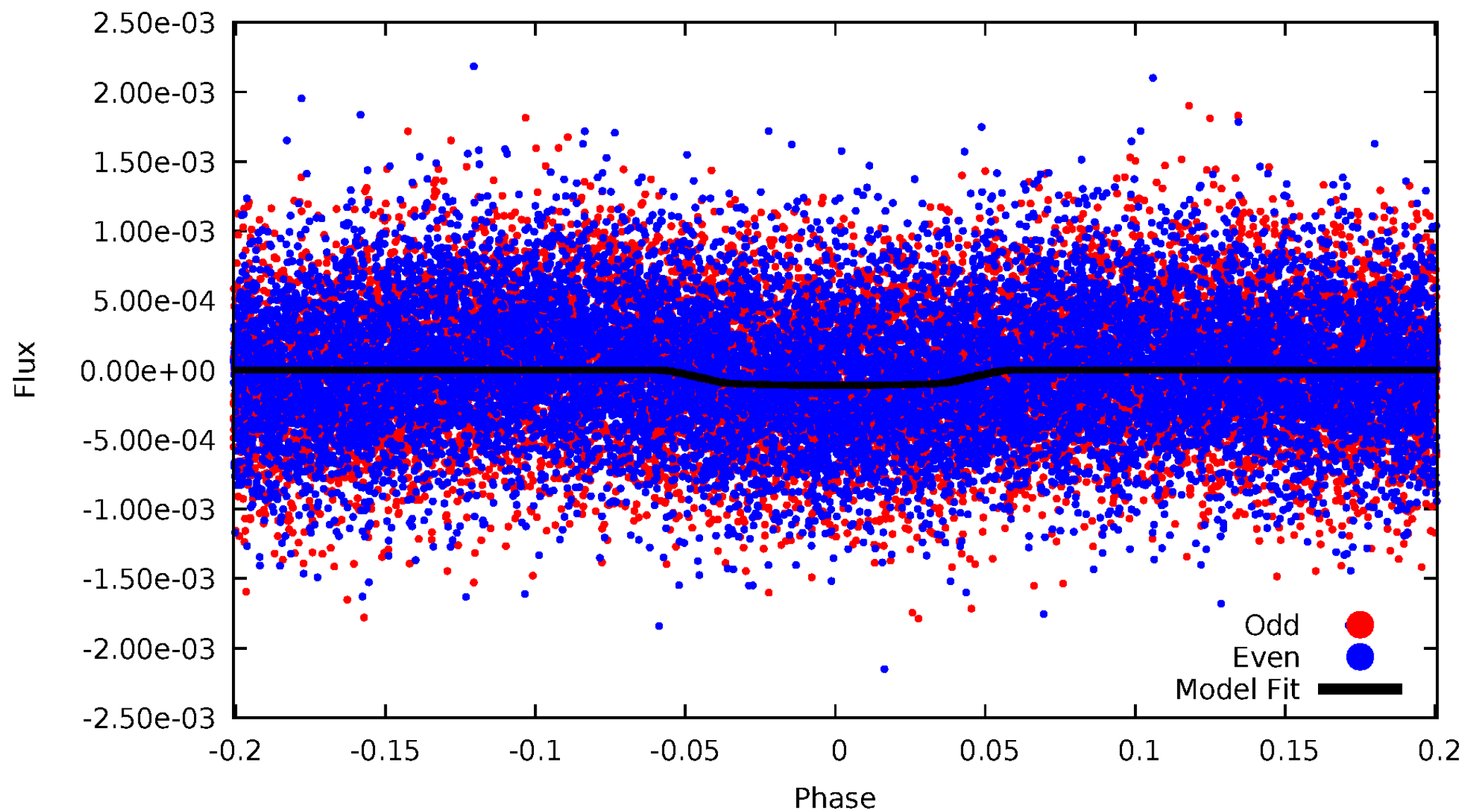


TCE 006694649-01



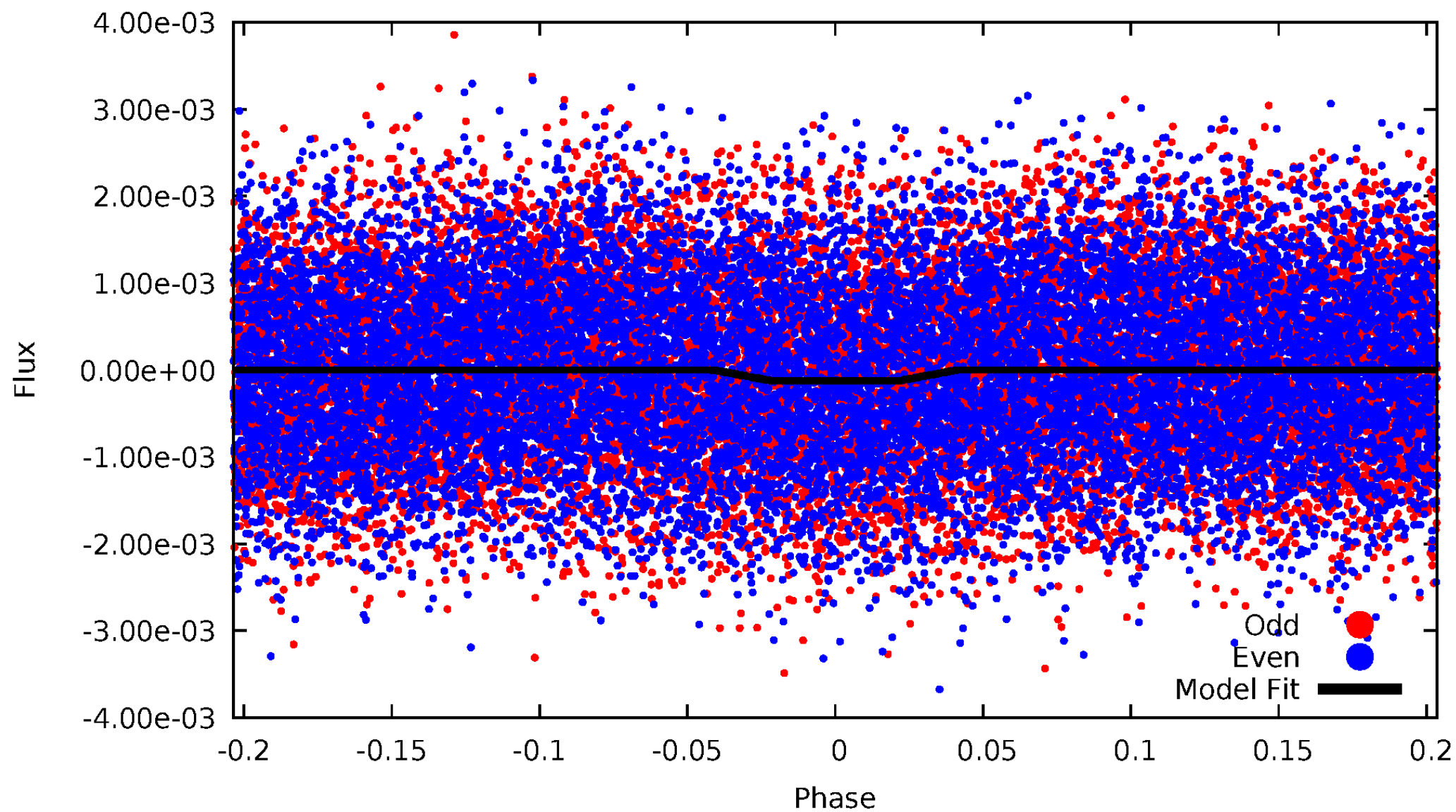
DV Odd/Even

TCE 006694649-01



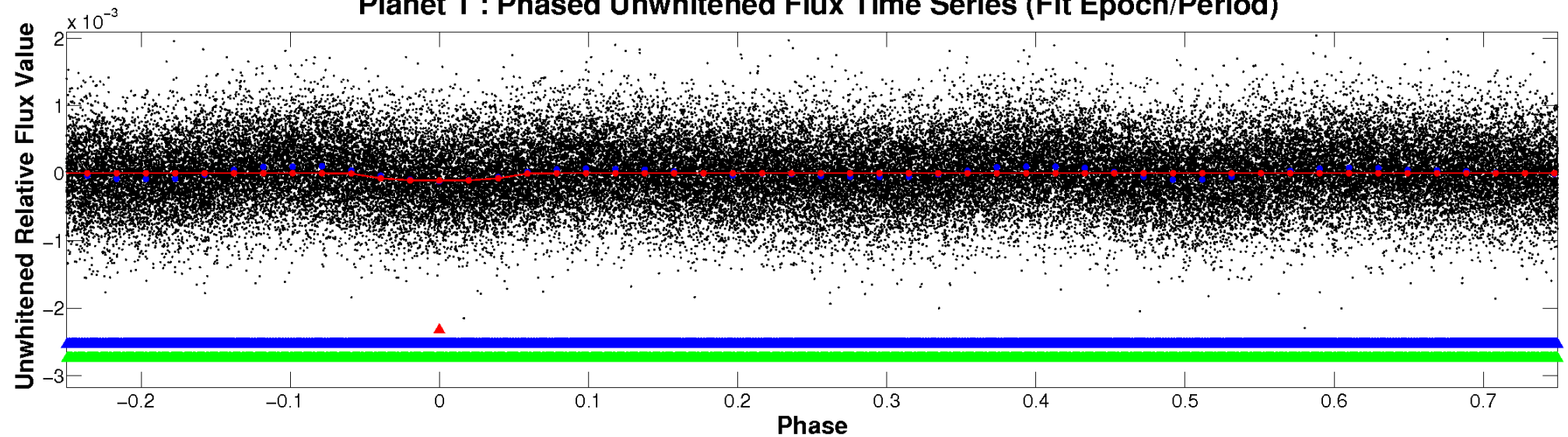
ALT Odd/Even

TCE 006694649-01

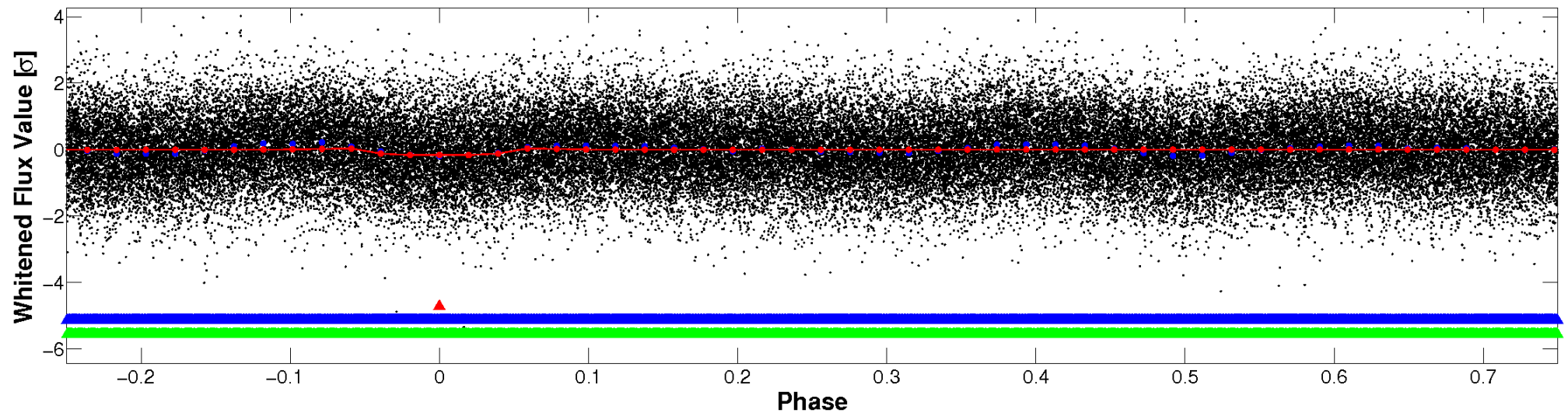


Non-Whitened Vs. Whitened Light Curve

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

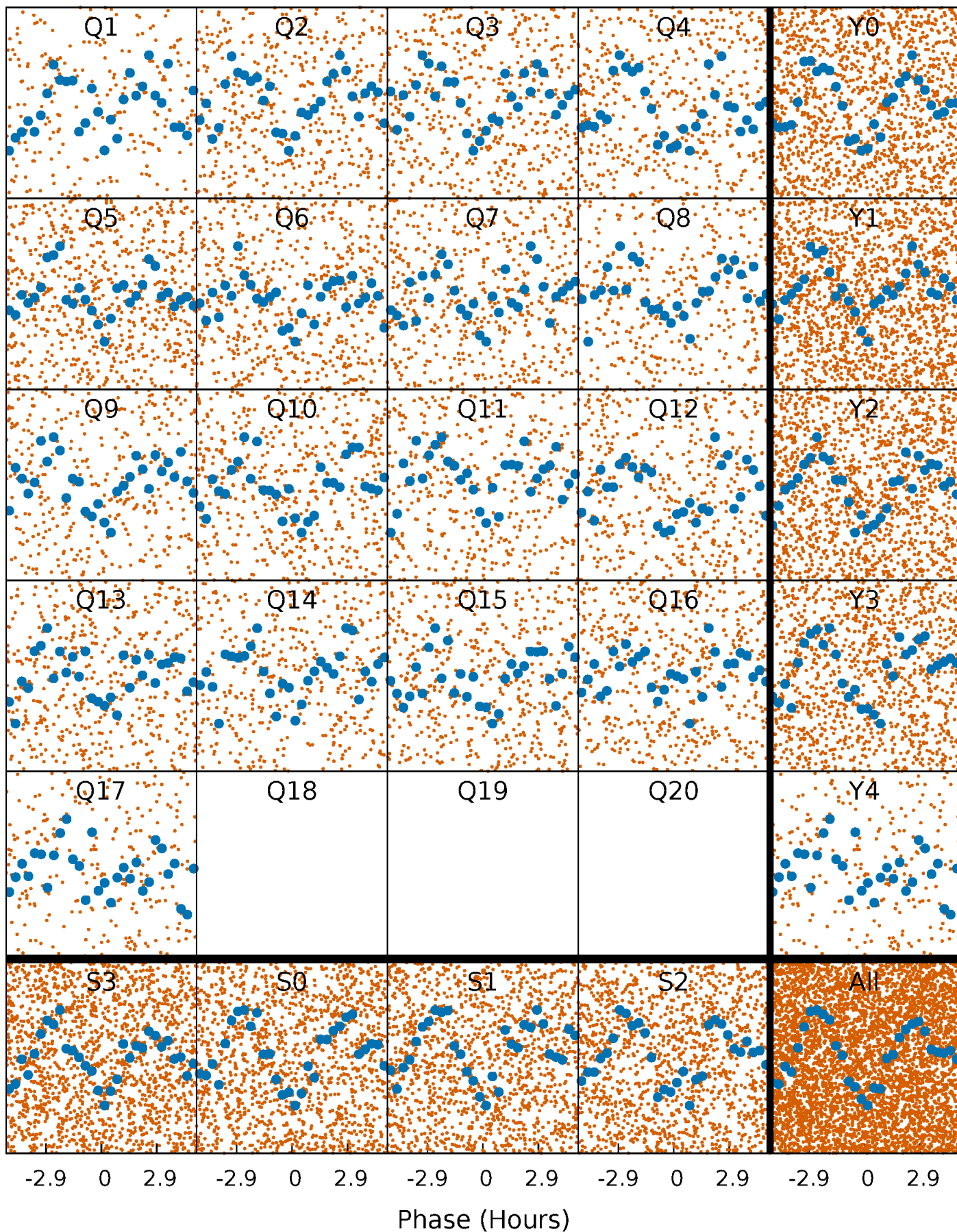


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



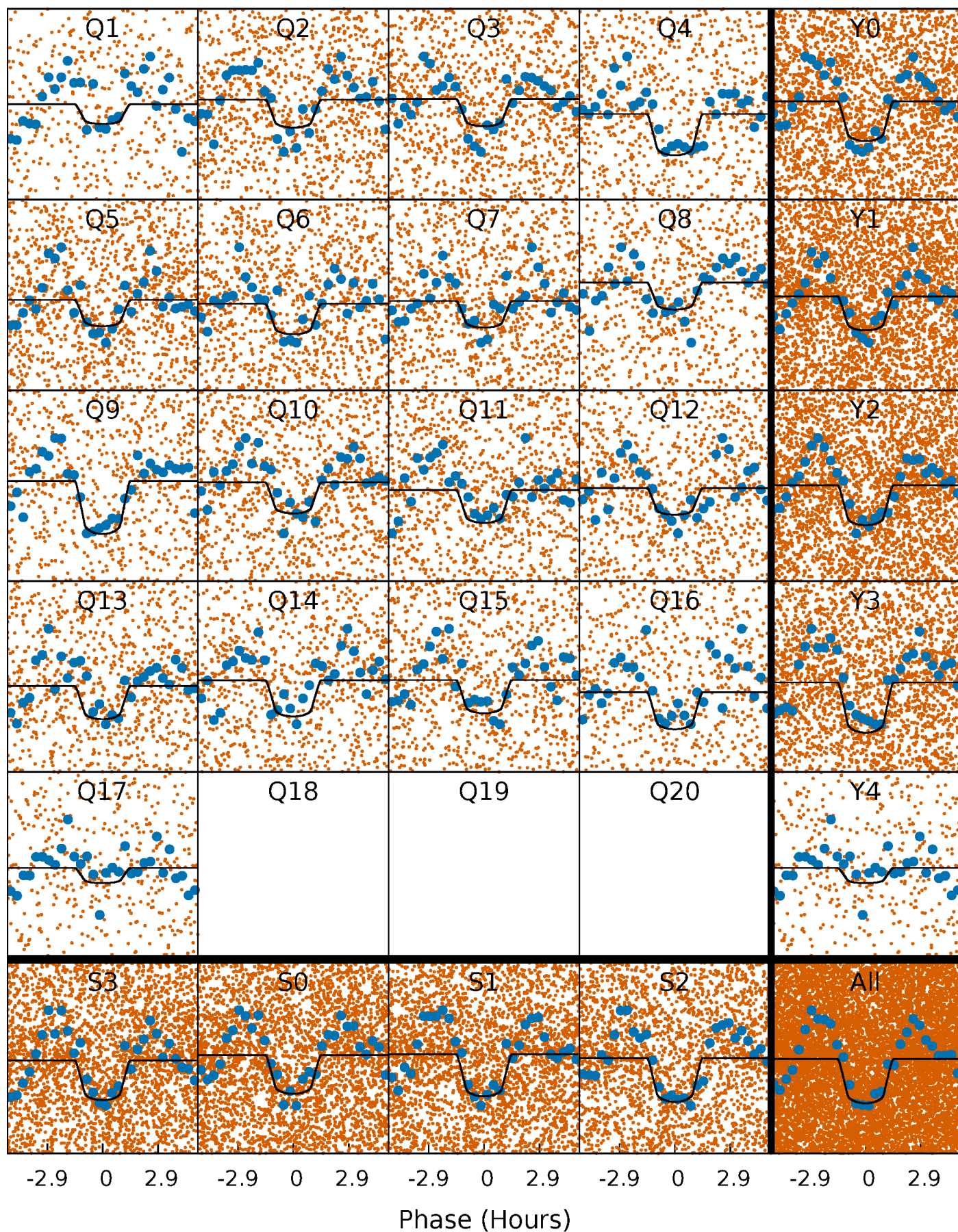
PDC Quarter-Phased Transit Curves

TCE 006694649-01 P= 1.038500 Days $T_0=132.492882$ (BKJD)



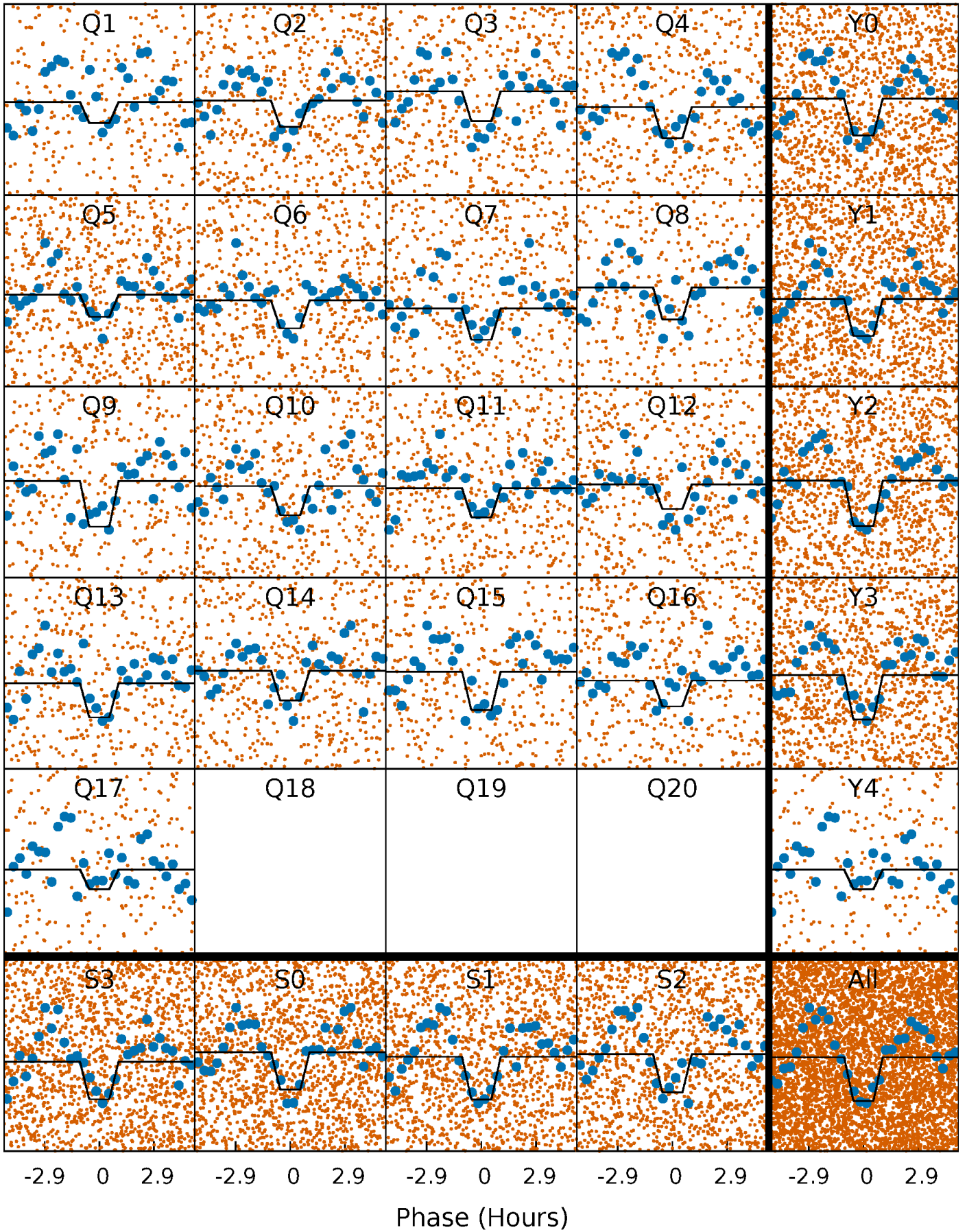
DV Quarter-Phased Transit Curves

TCE 006694649-01 P= 1.038500 Days $T_0=132.492882$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

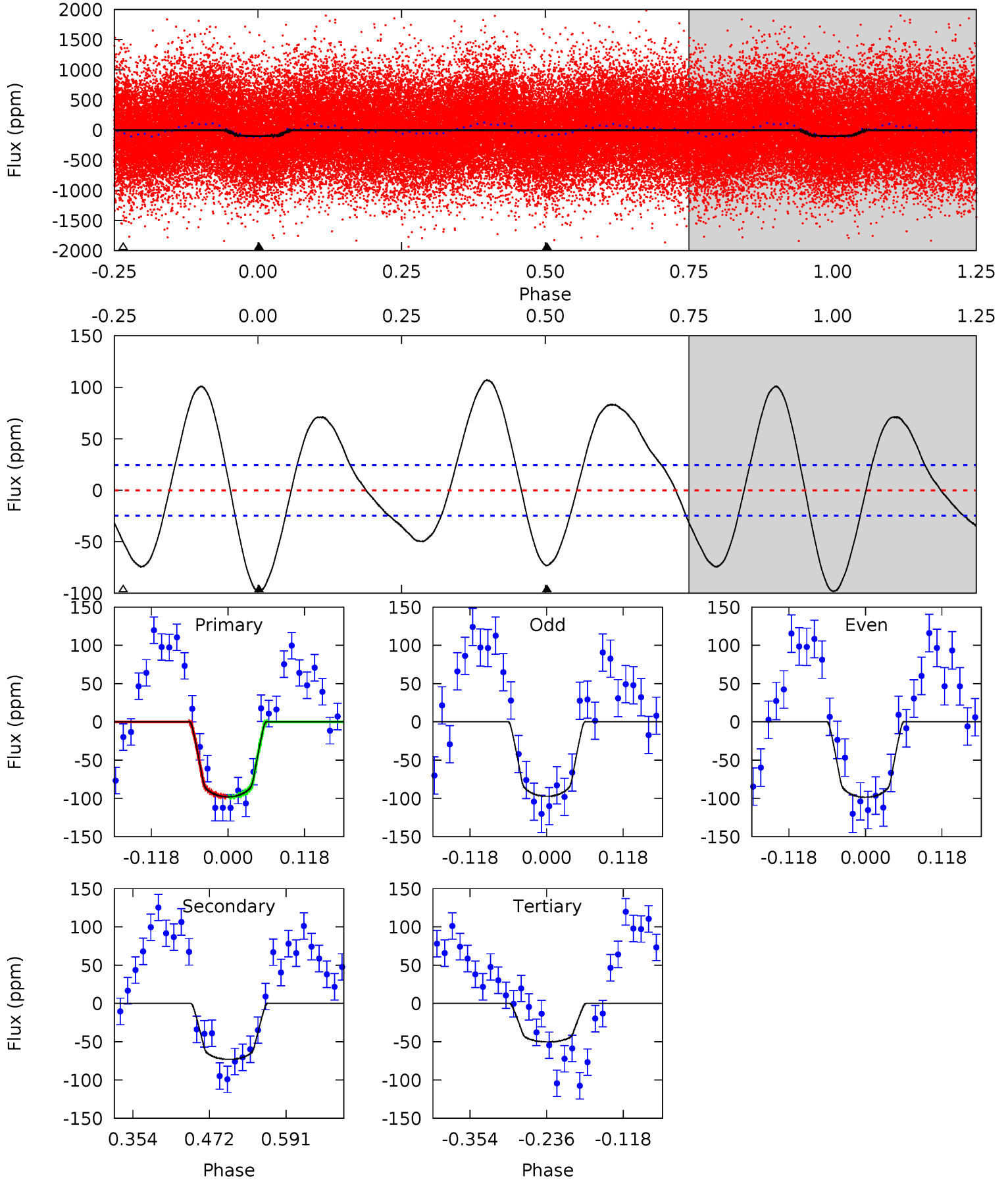
TCE 006694649-01 P= 1.038503 Days $T_0=132.492803$ (BKJD)



DV Model-Shift Uniqueness Test

006694649-01, P = 1.038500 Days, E = 131.454382 Days

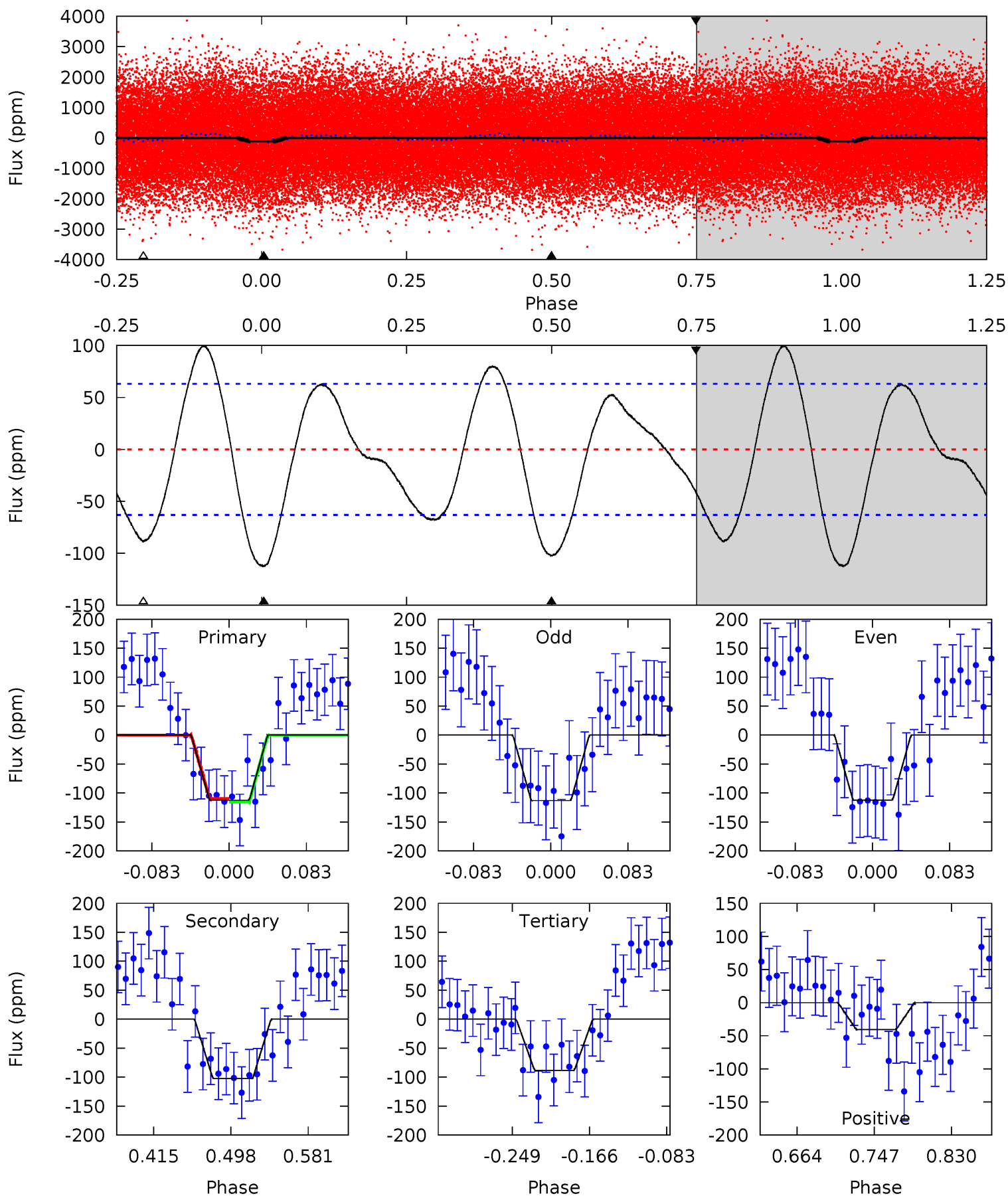
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.0	13.5	9.25	0	4.53	1.56	8.63	8.78	18.0	4.21	13.5	0.11	0.92	0.52	0.05



Alt Model-Shift Uniqueness Test

006694649-01, P = 1.038503 Days, E = 131.454300 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.23	7.49	6.47	-2.98	4.60	1.73	3.75	1.75	11.2	1.02	10.5	0.04	0.83	0.47	0.22



Stellar Parameters For KIC 006694649

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7803^{+70}_{-93}	$3.872^{+0.180}_{-0.060}$	$0.070^{+0.150}_{-0.150}$	$2.722^{+0.281}_{-0.657}$	$2.012^{+0.164}_{-0.246}$	$0.141^{+0.133}_{-0.028}$
	+1%/-1%	+5%/-2%	+214%/-214%	+10%/-24%	+8%/-12%	+95%/-20%
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 006694649-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-73 ± 5	$3.23^{+1.08}_{-1.03}$	4939^{+166}_{-270}	6475^{+1565}_{-978}	$2.498^{+2.647}_{-1.109}$
Alt.	-103 ± 14	$3.24^{+1.05}_{-0.99}$	4945^{+159}_{-265}	7128^{+1839}_{-1067}	$3.469^{+3.763}_{-1.531}$

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 $A_{obs} \gg 1.0$

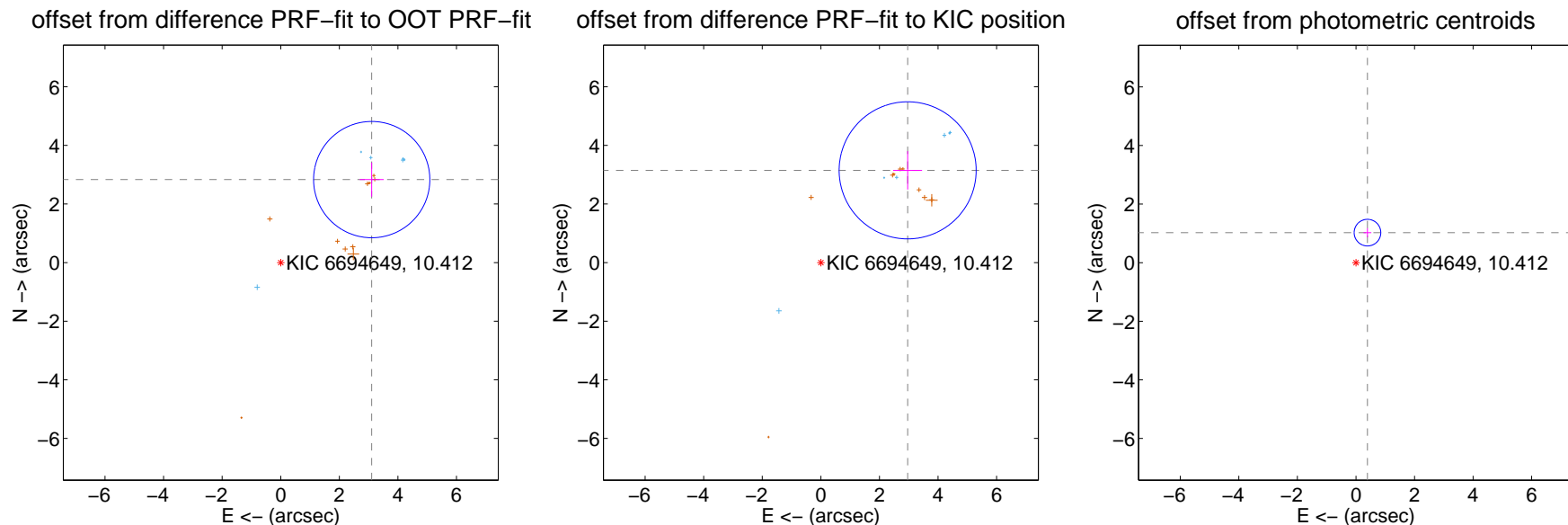
DV Centroid Data

Supplemental centroid analysis for 006694649-01. **Kepler magnitude: 10.41.** Transit SNR 11.86

There are 6 quarters with good PRF difference image offsets

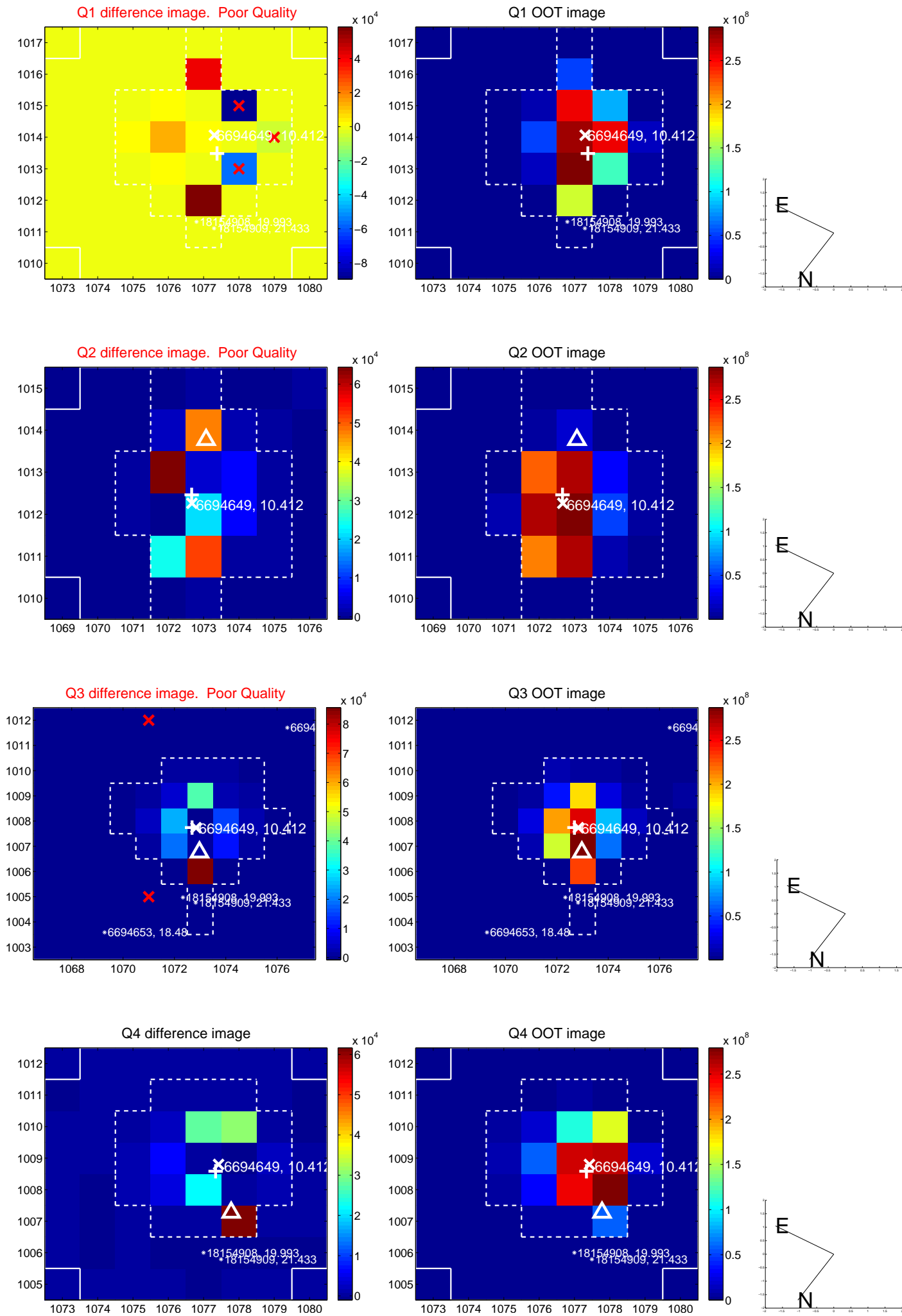
The OOT PRF centroid is offset from the target star catalog position by about 2.25 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.202 ± 0.661	6.35	-3.105 ± 0.411	2.832 ± 0.581
PRF-fit source offset from KIC position	4.323 ± 0.780	5.54	-2.963 ± 0.494	3.148 ± 0.654
photometric centroid source offset	1.10 ± 0.15	7.24	-0.39 ± 0.13	1.02 ± 0.15

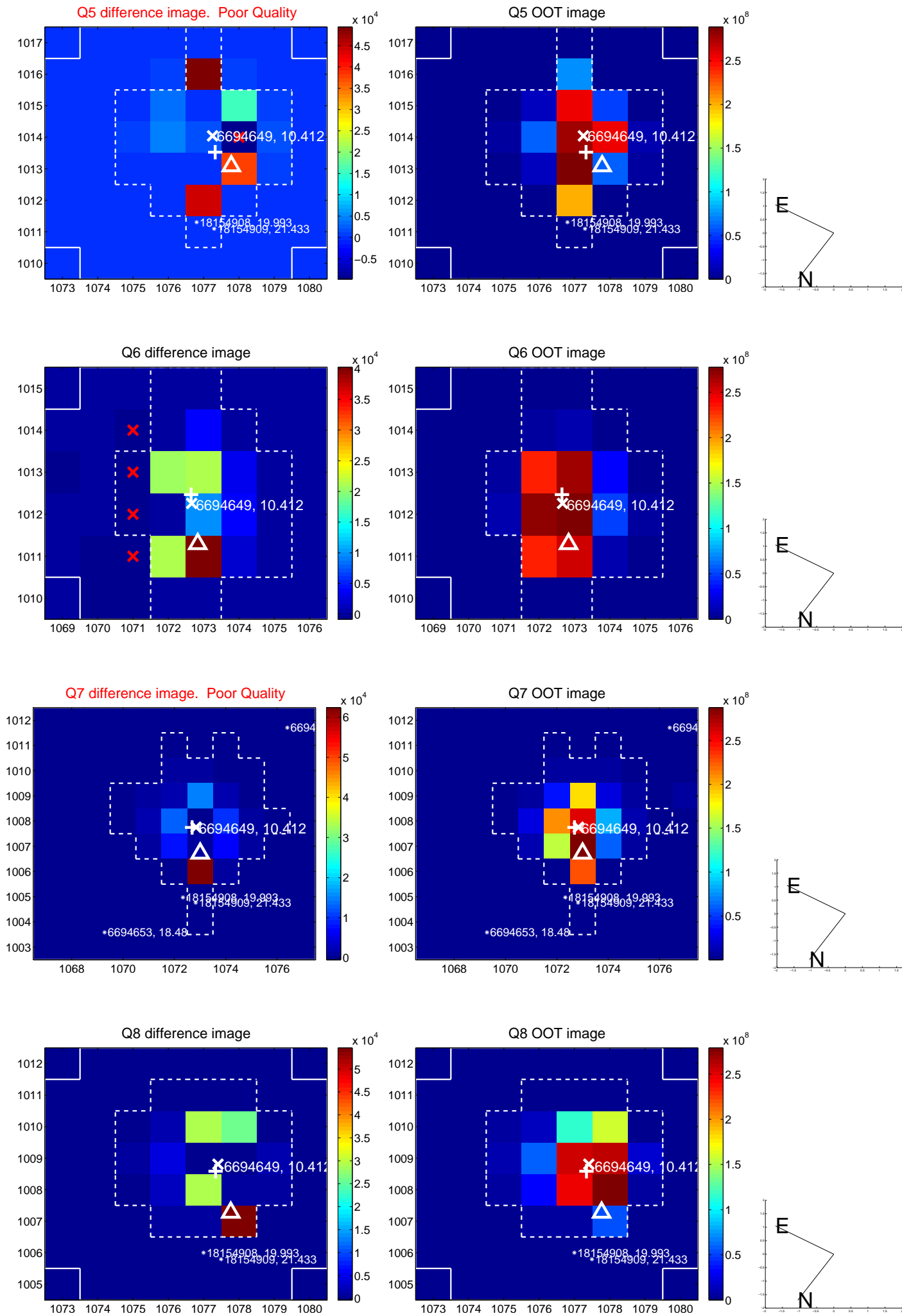


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

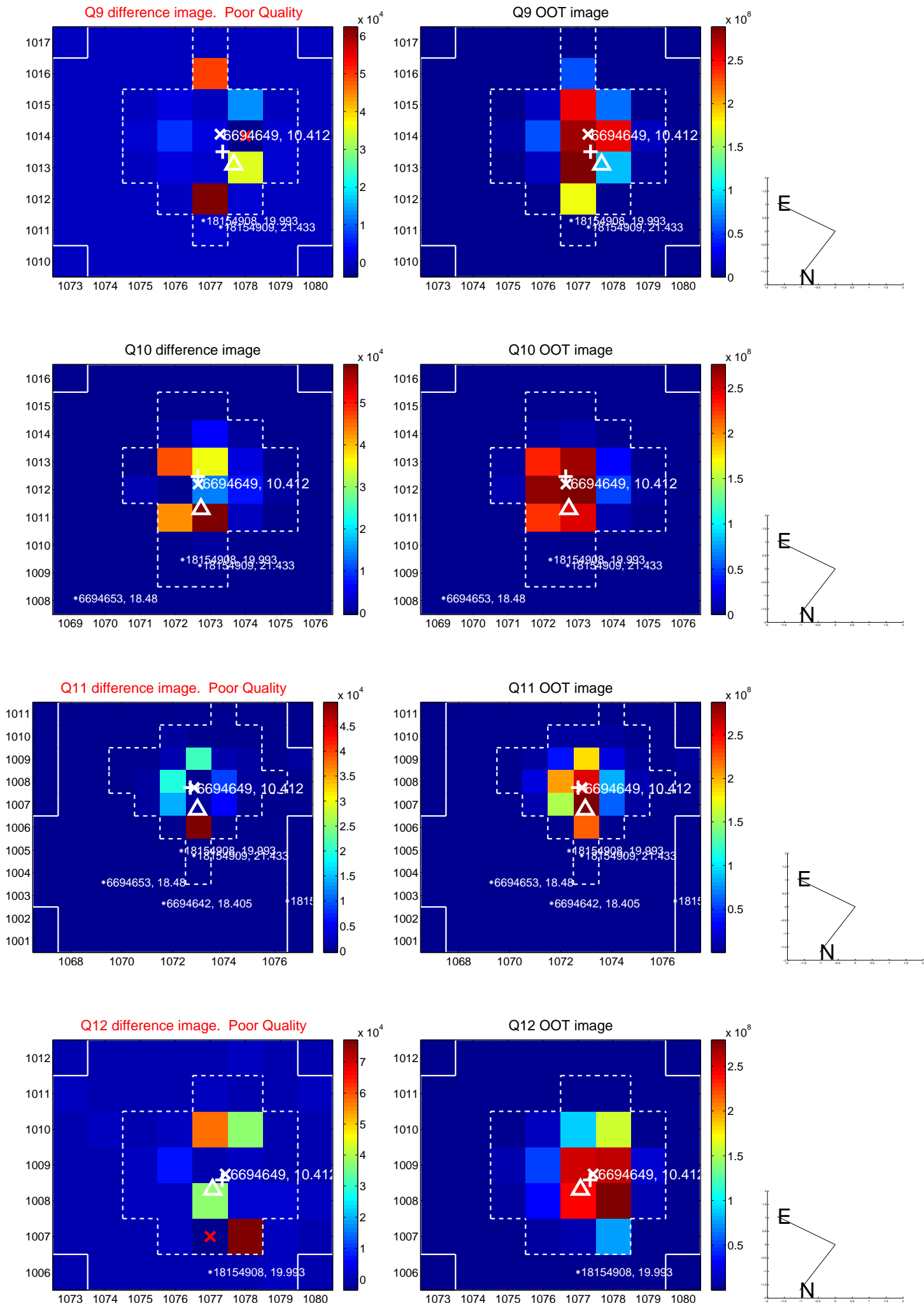
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



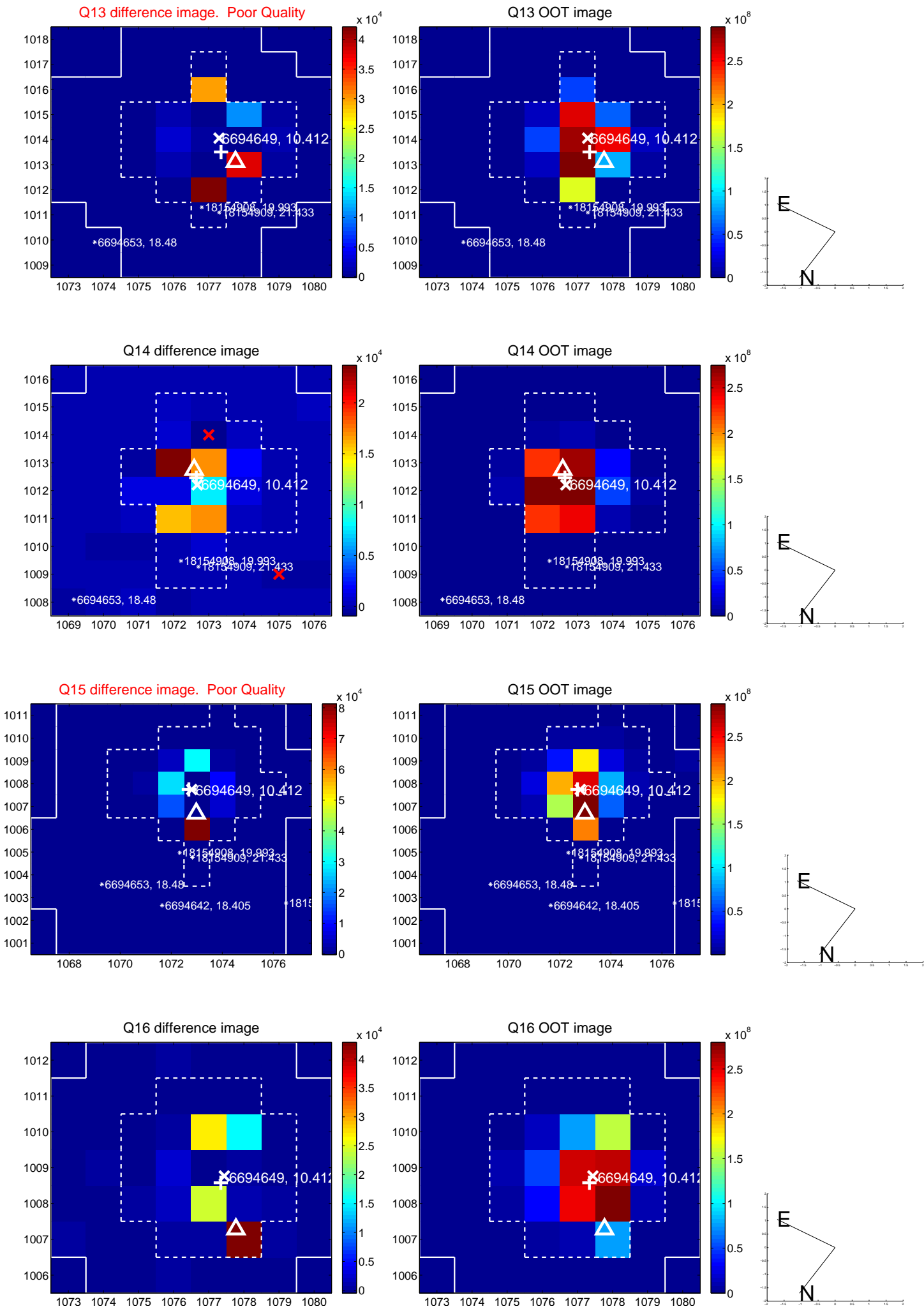
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



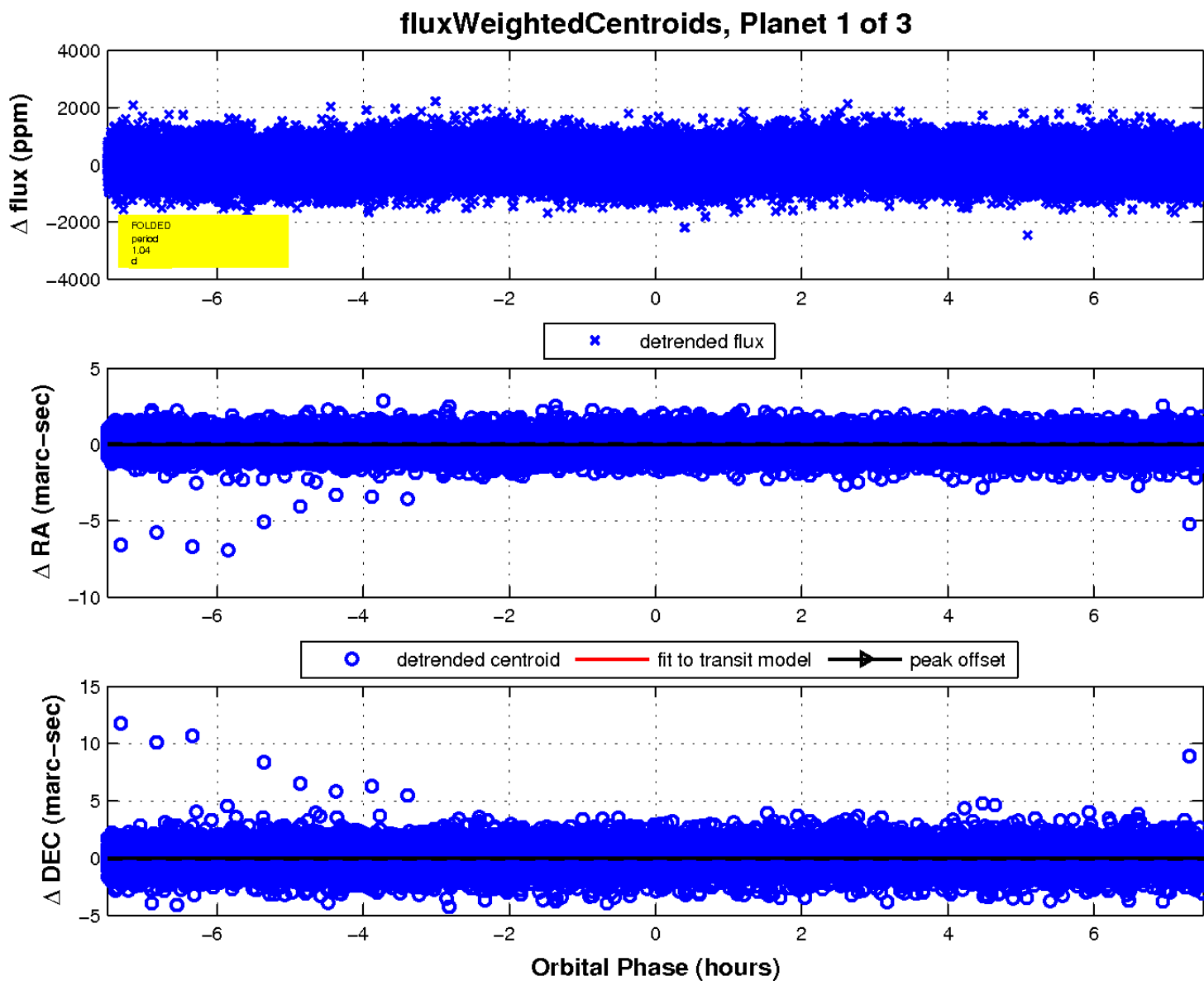
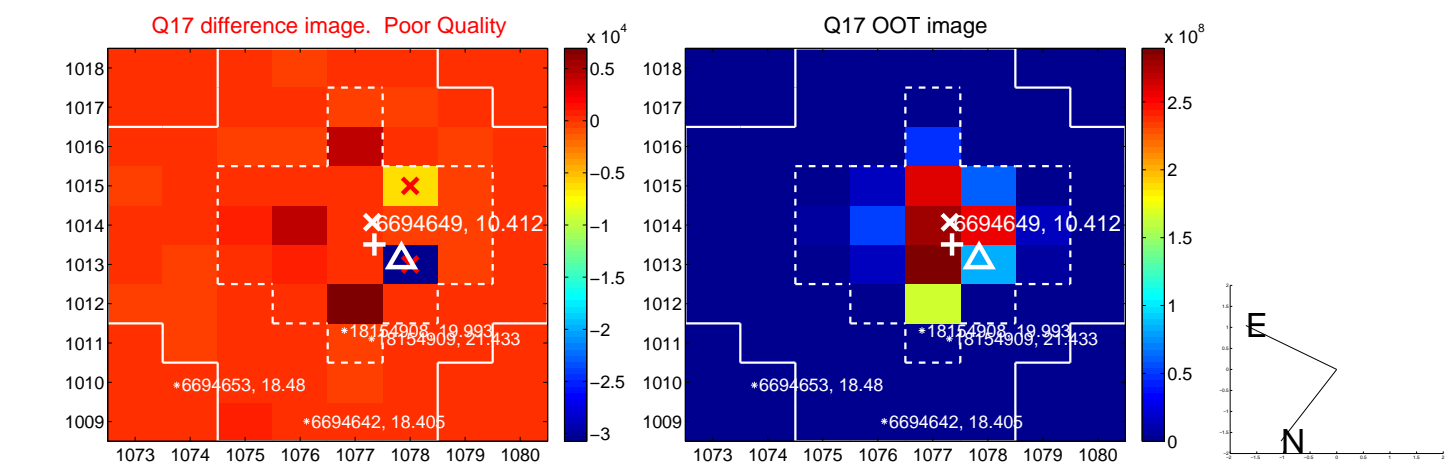
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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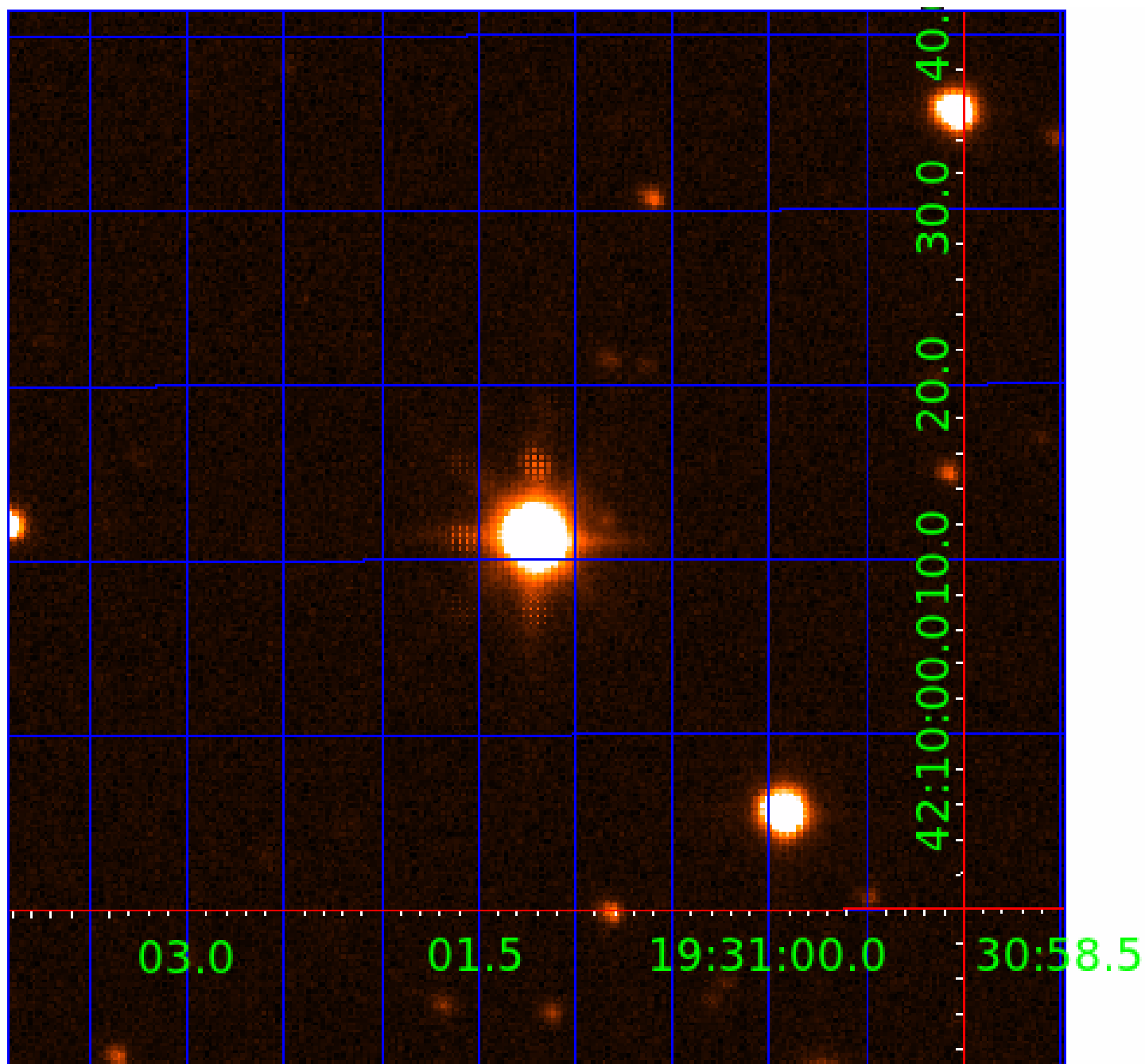


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006694649

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})
006694649-01	OBS	No	1.038500	132.492882	109.8	2.500	10.5	11.9	2.72	7803	3.32	38311.06
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006694649-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006694649-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006694649-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_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.

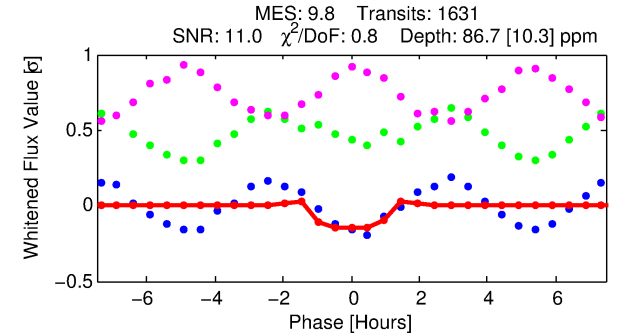
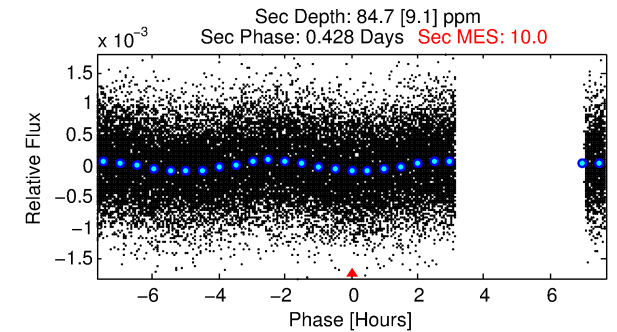
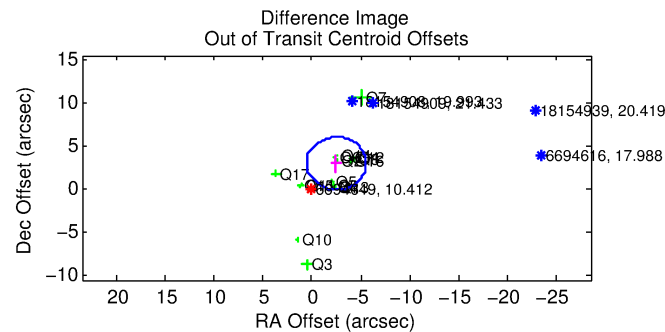
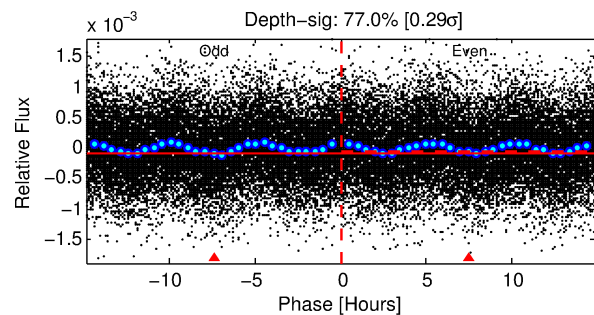
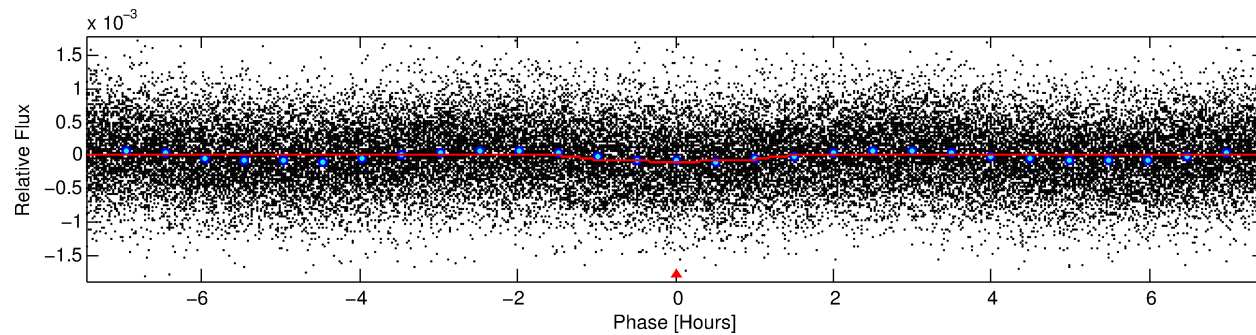
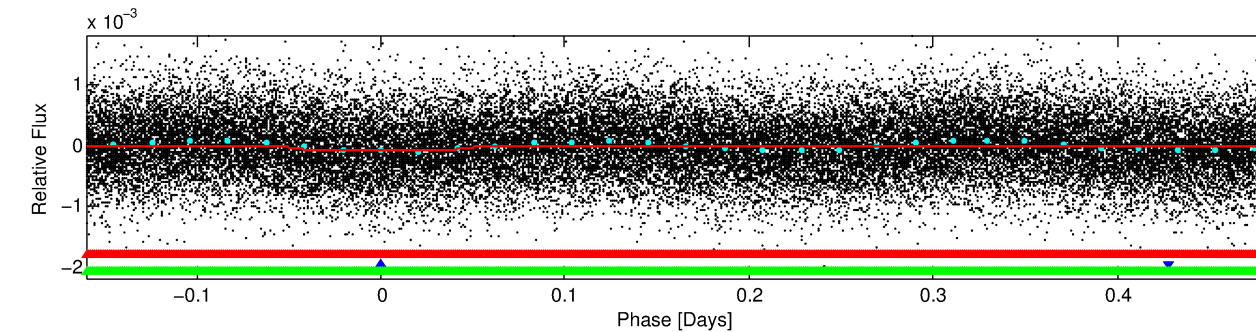
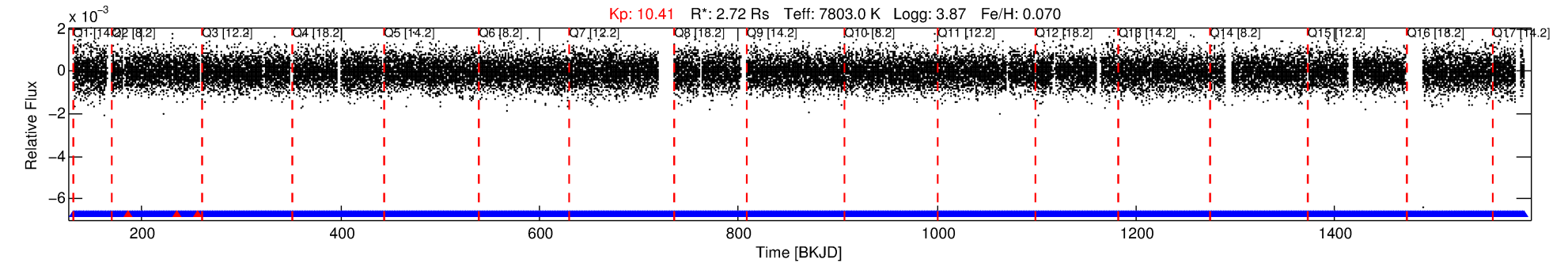
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006694649-02

No Significant Match Found

DV One-Page Summary

KIC: 6694649 Candidate: 2 of 3 Period: 0.640 d



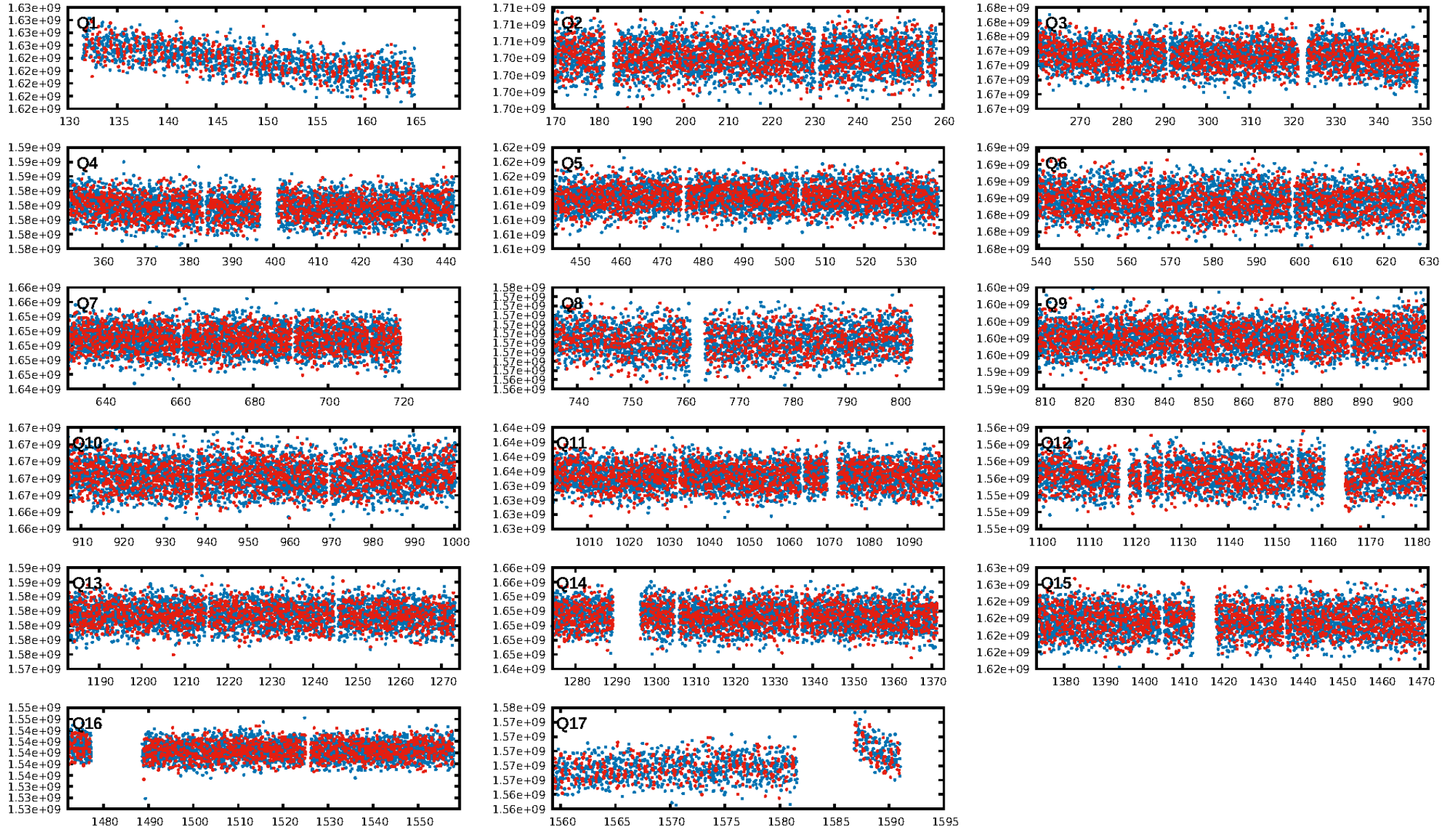
DV Fit Results:

Period = 0.64020 [0.00001] d
Epoch = 131.8251 [0.0022] BKJD
 $R_p/R^* = 0.0099$ [0.0035]
 $a/R^* = 1.30$ [1.16]
 $b = 0.90$ [0.47]
 $S_{\text{eff}} = 73020.95$ [23606.50]
 $T_{\text{eq}} = 4192$ [339] K
 $R_p = 2.95$ [1.25] R_e
 $a = 0.0184$ [0.0039] AU
 $A_g = 1.81$ [1.41] [0.57 σ]
 $T_{\text{eff}} = 7517$ [1337] K [2.41 σ]

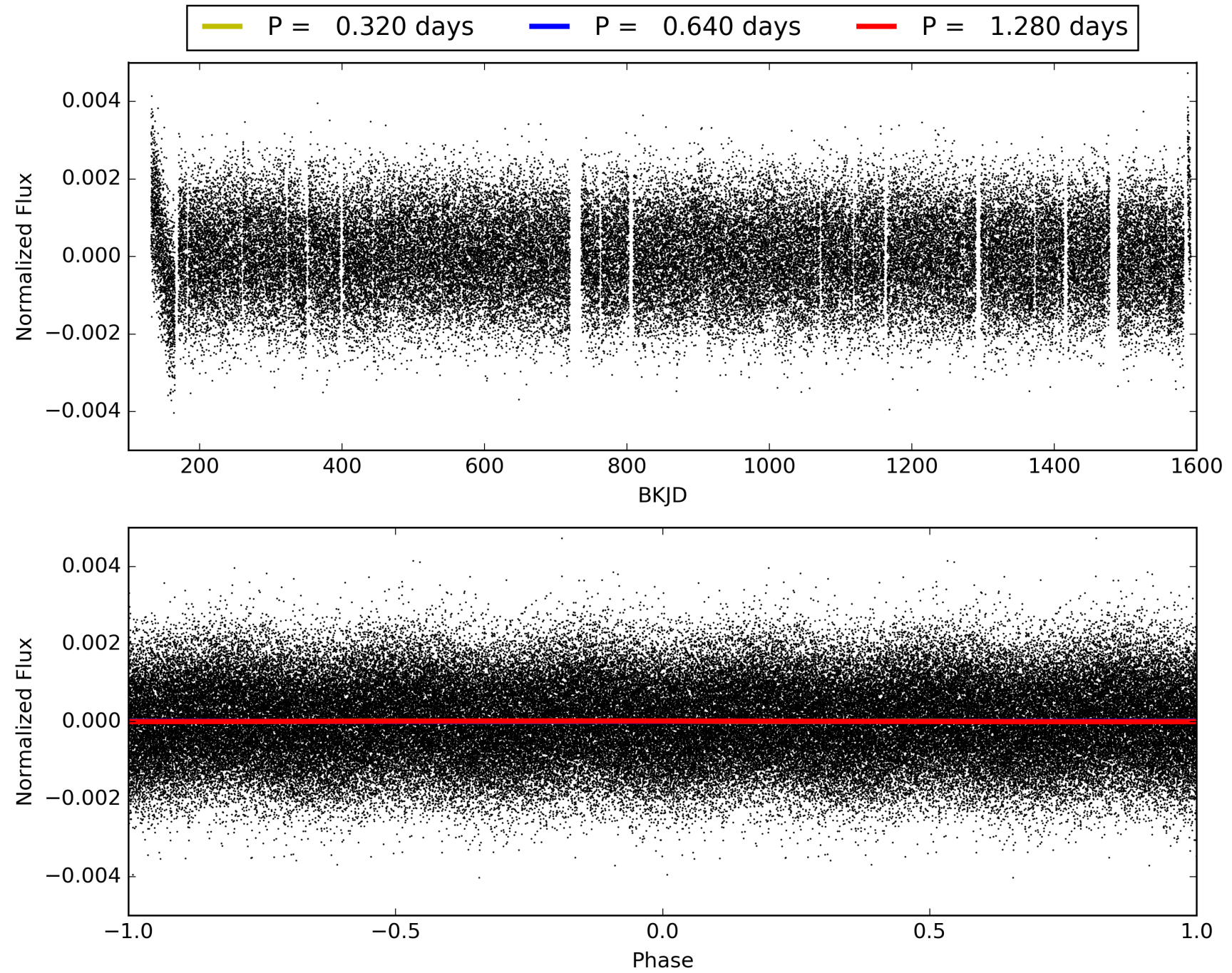
DV Diagnostic Results:

ShortPeriod-sig: 22.7% [0.29 σ]
LongPeriod-sig: 99.3% [2.71 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1556/1559]
GhostDiagnostic-chr: 2.535
Centroid-sig: 0.0%
Centroid-so: 1.029 arcsec [6.96 σ]
OotOffset-rm: 3.904 arcsec [3.84 σ]
KicOffset-rm: 3.512 arcsec [3.20 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.35 [6/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006694649-02, PDC Light Curves

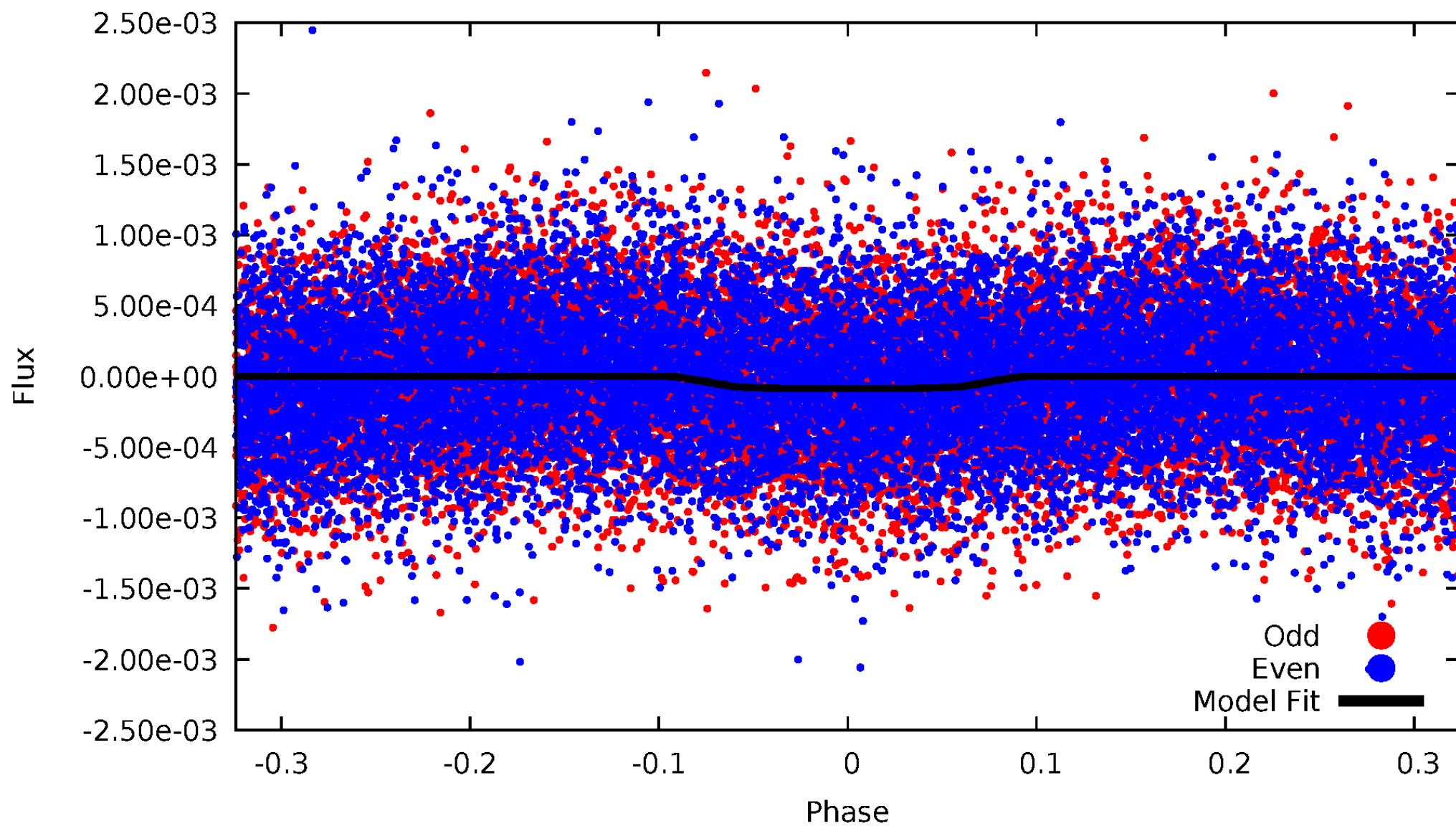


TCE 006694649-02



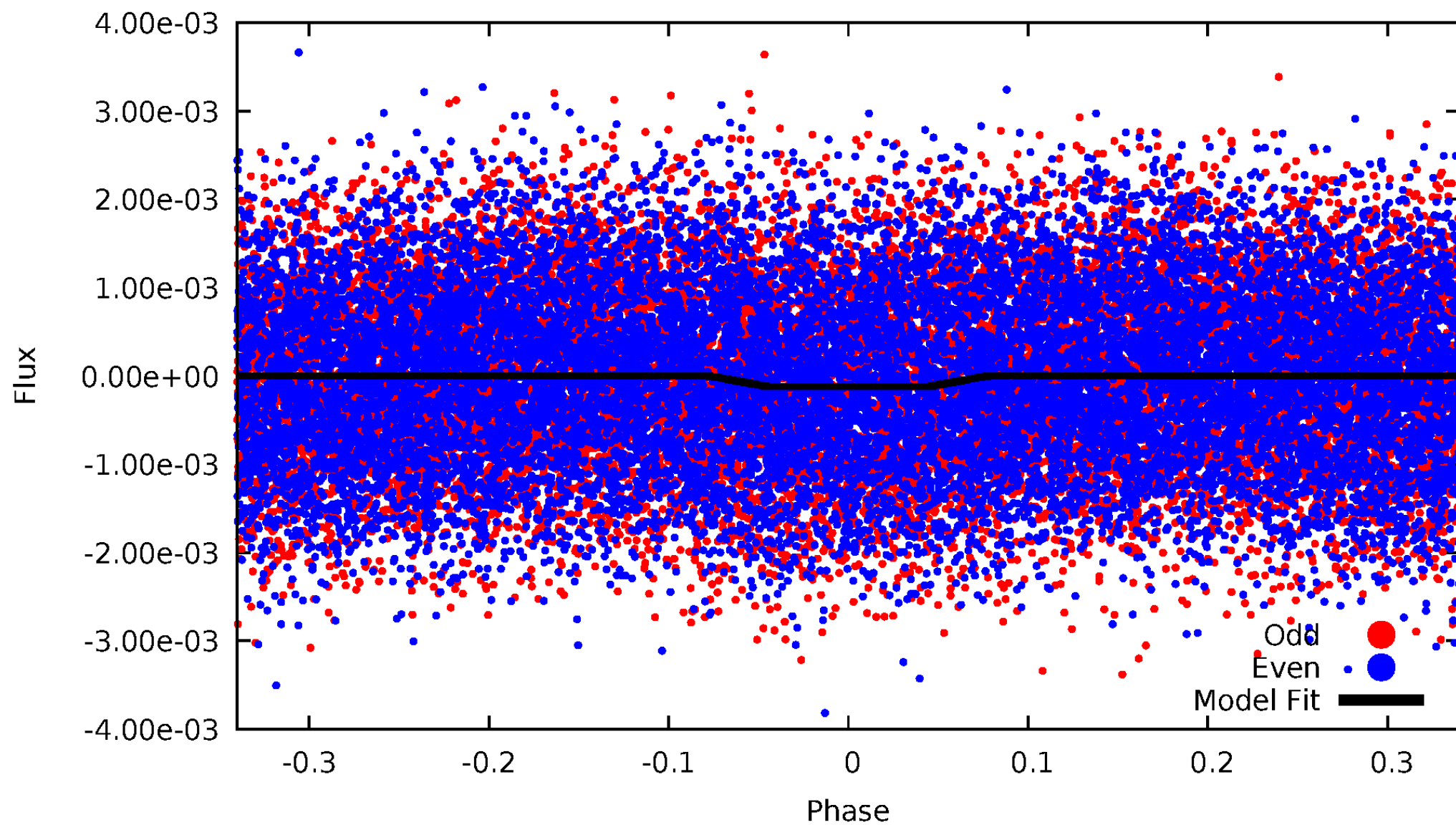
DV Odd/Even

TCE 006694649-02



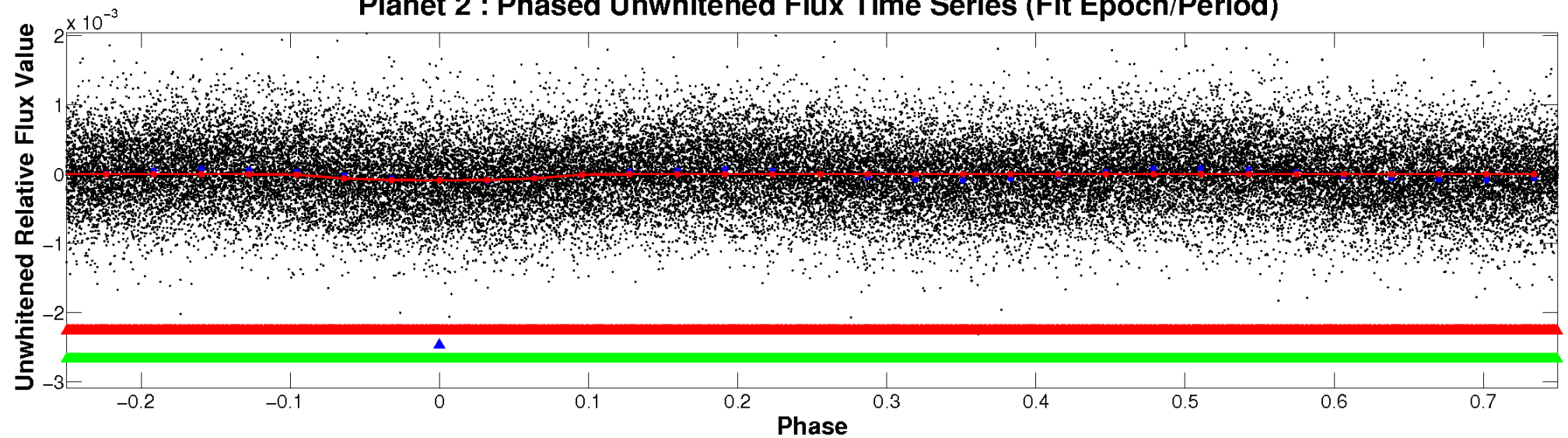
ALT Odd/Even

TCE 006694649-02

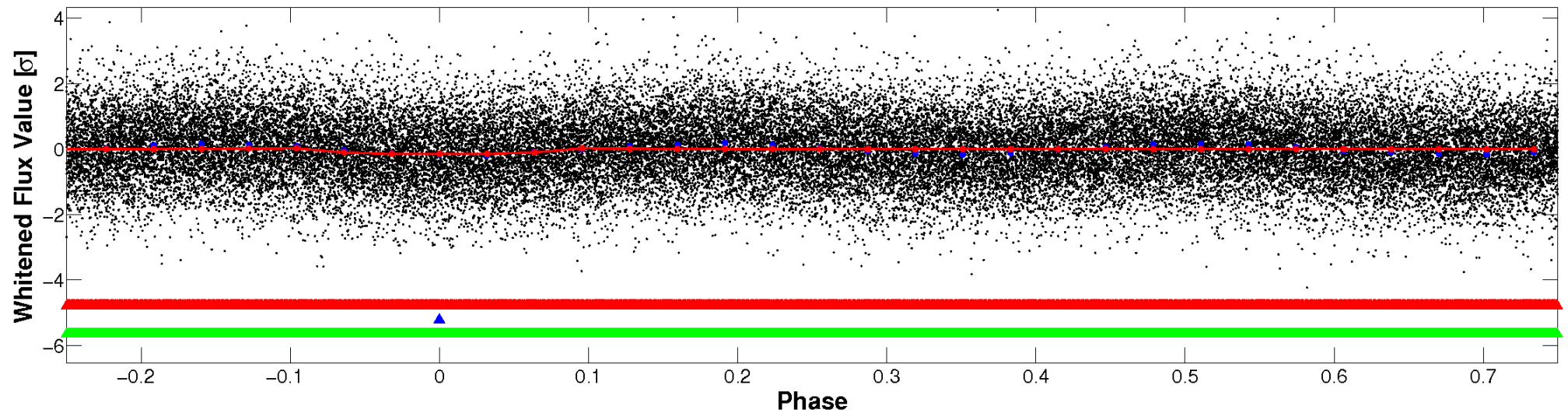


Non-Whitened Vs. Whitened Light Curve

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

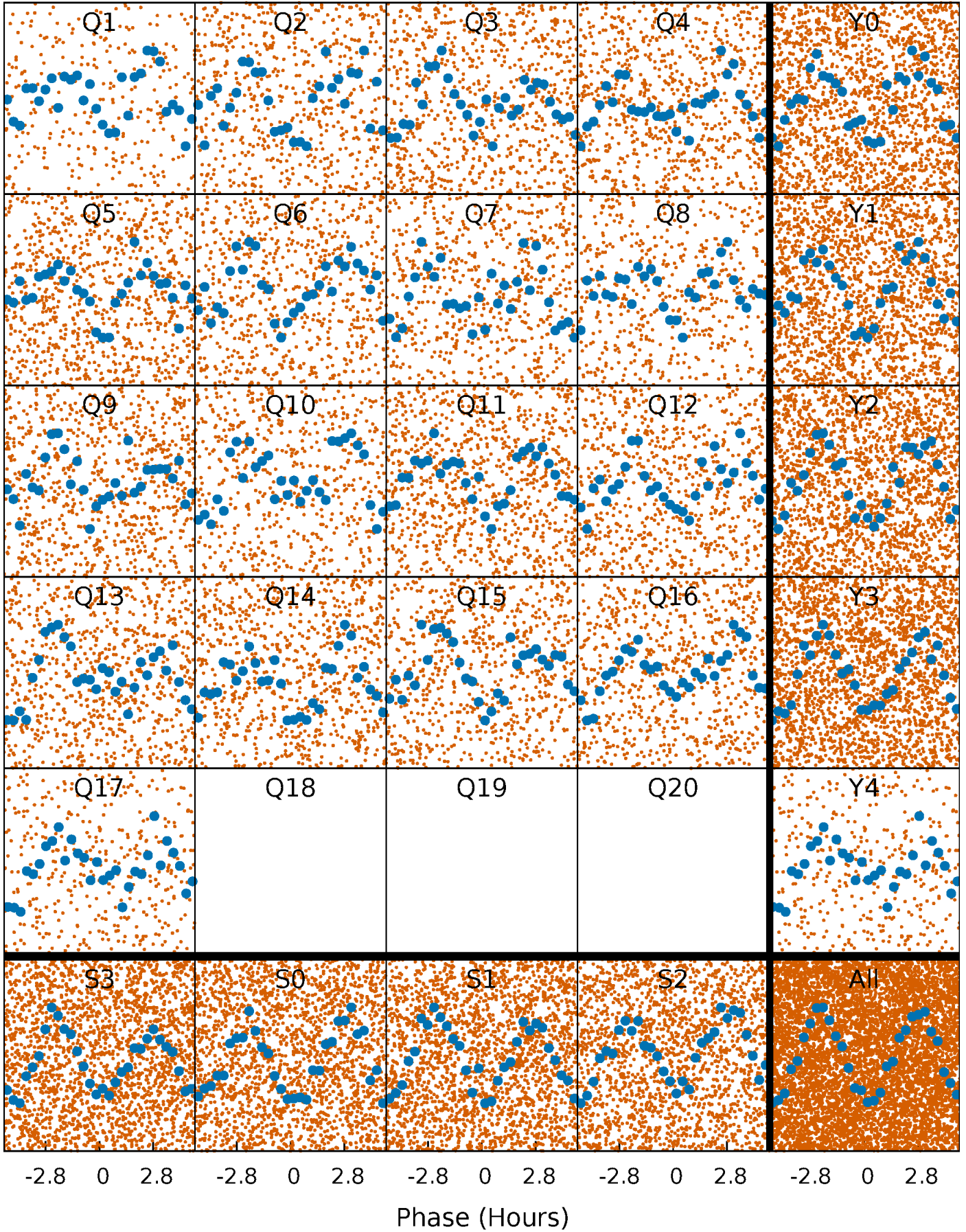


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



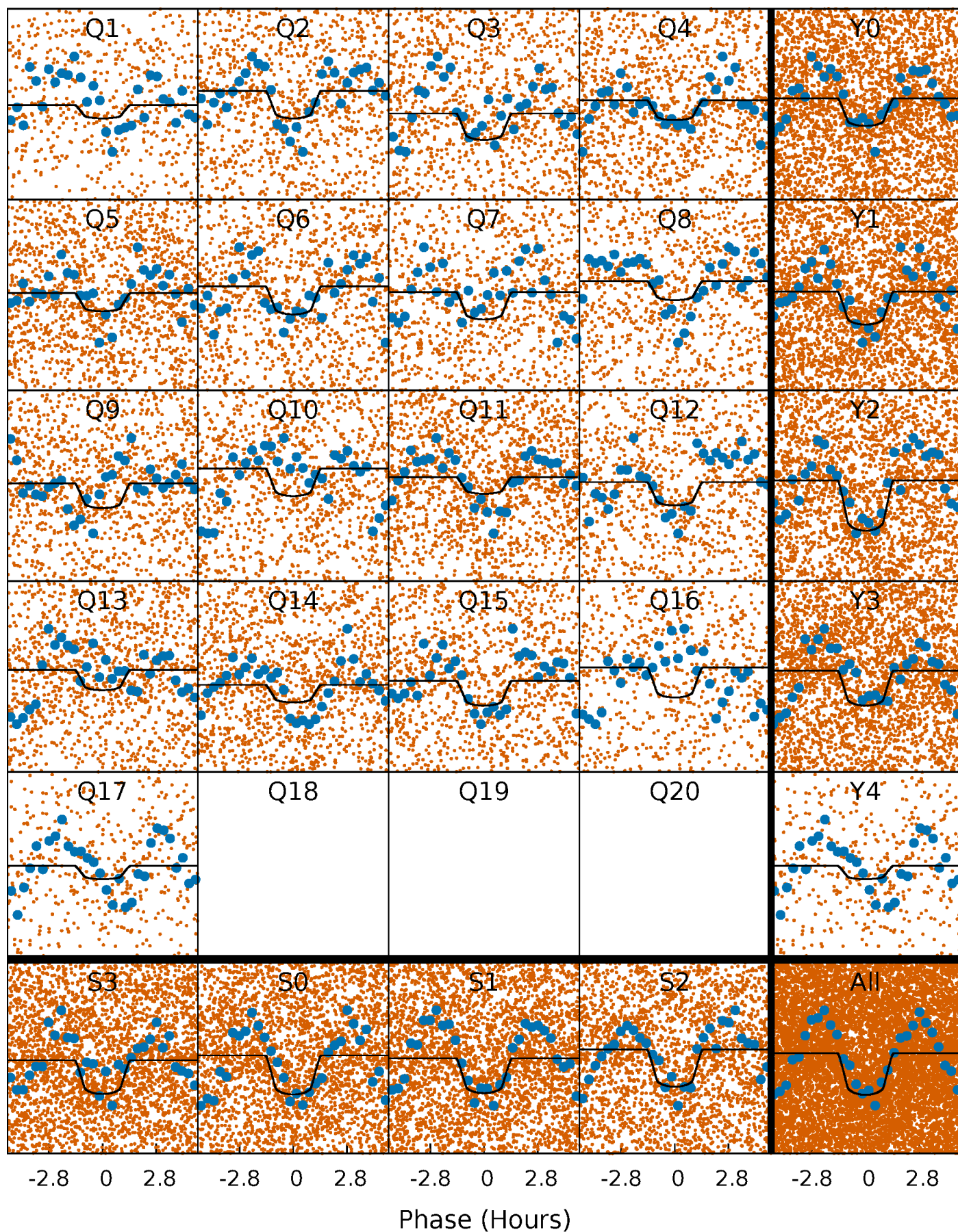
PDC Quarter-Phased Transit Curves

TCE 006694649-02 P= 0.640198 Days $T_0=131.825140$ (BKJD)



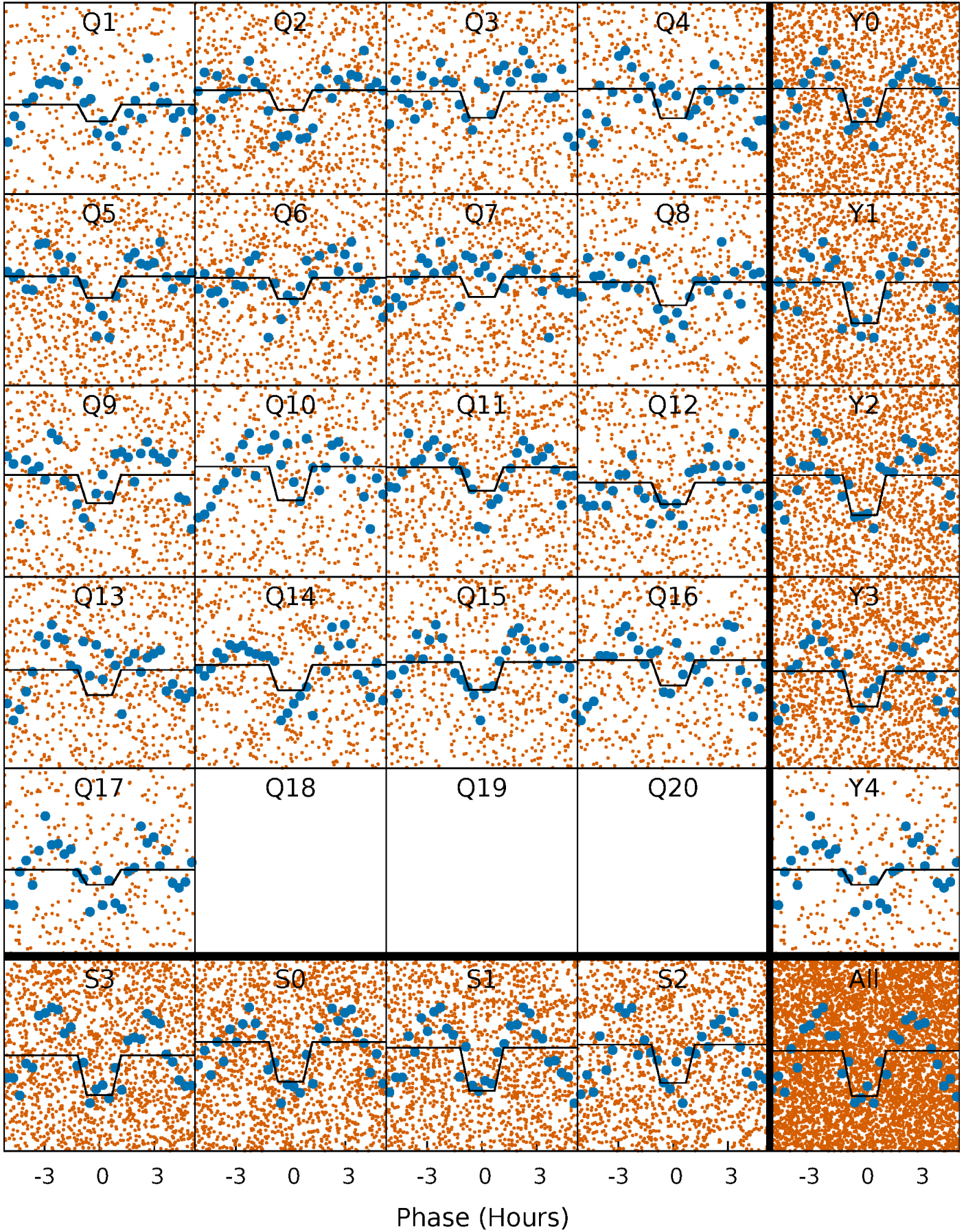
DV Quarter-Phased Transit Curves

TCE 006694649-02 P= 0.640198 Days $T_0=131.825140$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

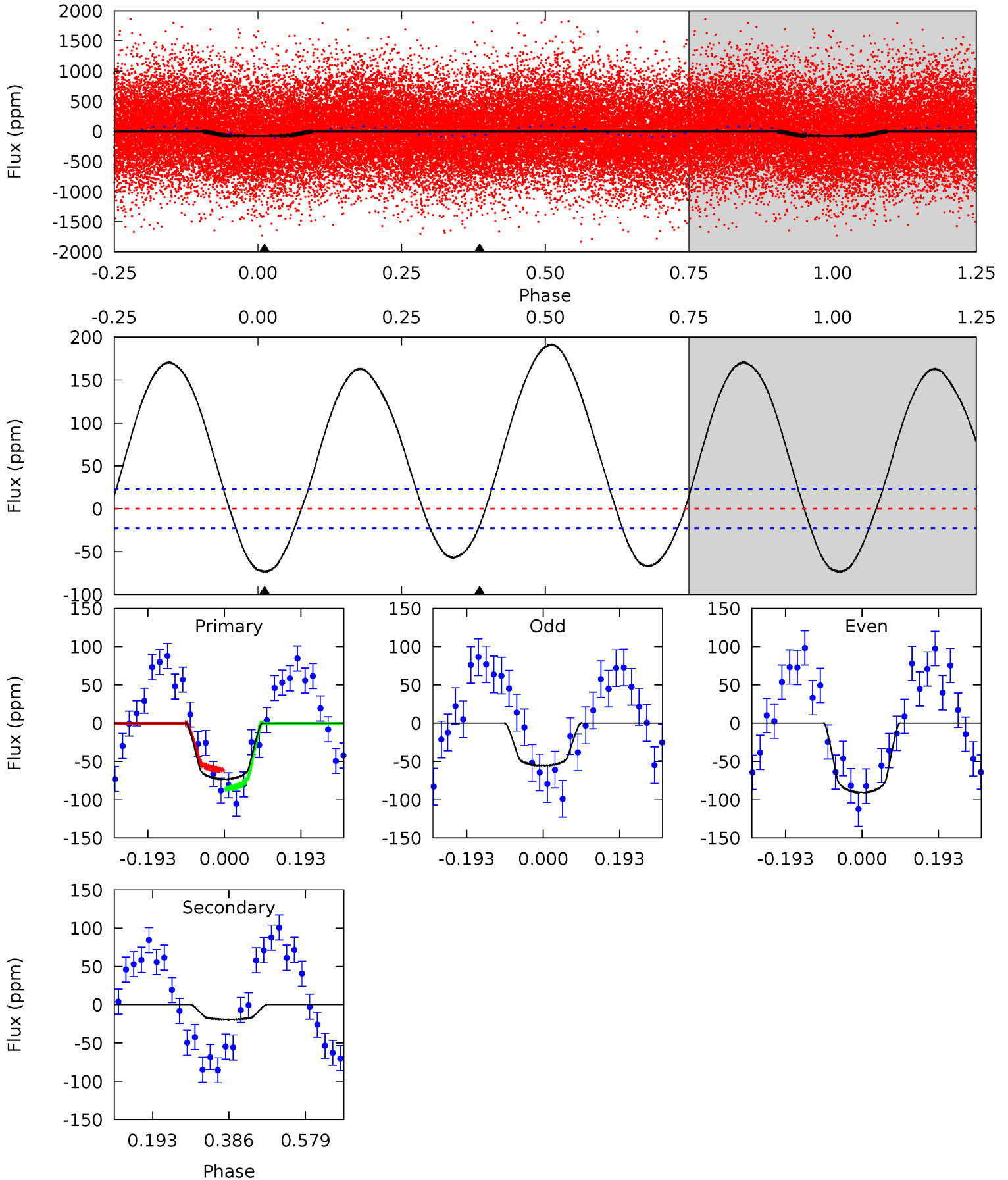
TCE 006694649-02 P= 0.640207 Days $T_0=131.823525$ (BKJD)



DV Model-Shift Uniqueness Test

006694649-02, P = 0.640198 Days, E = 131.184942 Days

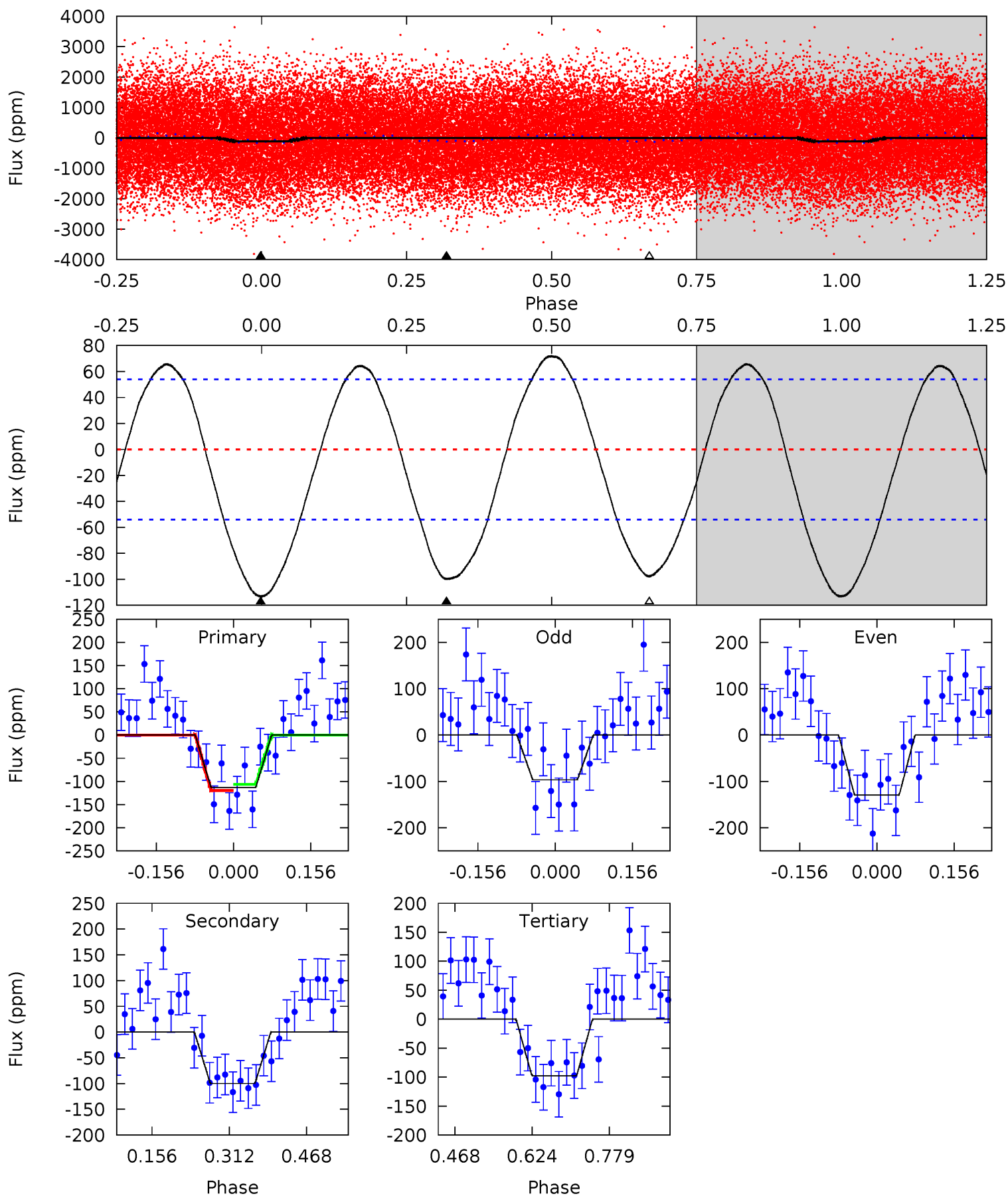
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.3	3.76	0	0	4.43	1.30	13.1	14.3	14.3	3.76	3.76	3.45	0.99	0.72	2.37



Alt Model-Shift Uniqueness Test

006694649-02, P = 0.640207 Days, E = 131.183318 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.37	8.27	8.09	0	4.47	1.42	5.01	1.28	9.37	0.18	8.27	1.36	0.99	0.39	0.53



Stellar Parameters For KIC 006694649

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7803^{+70}_{-93}	$3.872^{+0.180}_{-0.060}$	$0.070^{+0.150}_{-0.150}$	$2.722^{+0.281}_{-0.657}$	$2.012^{+0.164}_{-0.246}$	$0.141^{+0.133}_{-0.028}$
	+1%/-1%	+5%/-2%	+214%/-214%	+10%/-24%	+8%/-12%	+95%/-20%
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 006694649-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-19 ± 5	$2.78^{+1.12}_{-1.01}$	5793^{+194}_{-340}	4157^{+1645}_{-7933}	$0.451^{+0.713}_{-0.233}$
Alt.	-100 ± 12	$3.09^{+1.12}_{-0.95}$	5797^{+183}_{-353}	6985^{+2223}_{-1218}	$1.937^{+2.130}_{-0.906}$

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 $A_{obs} \gg 1.0$

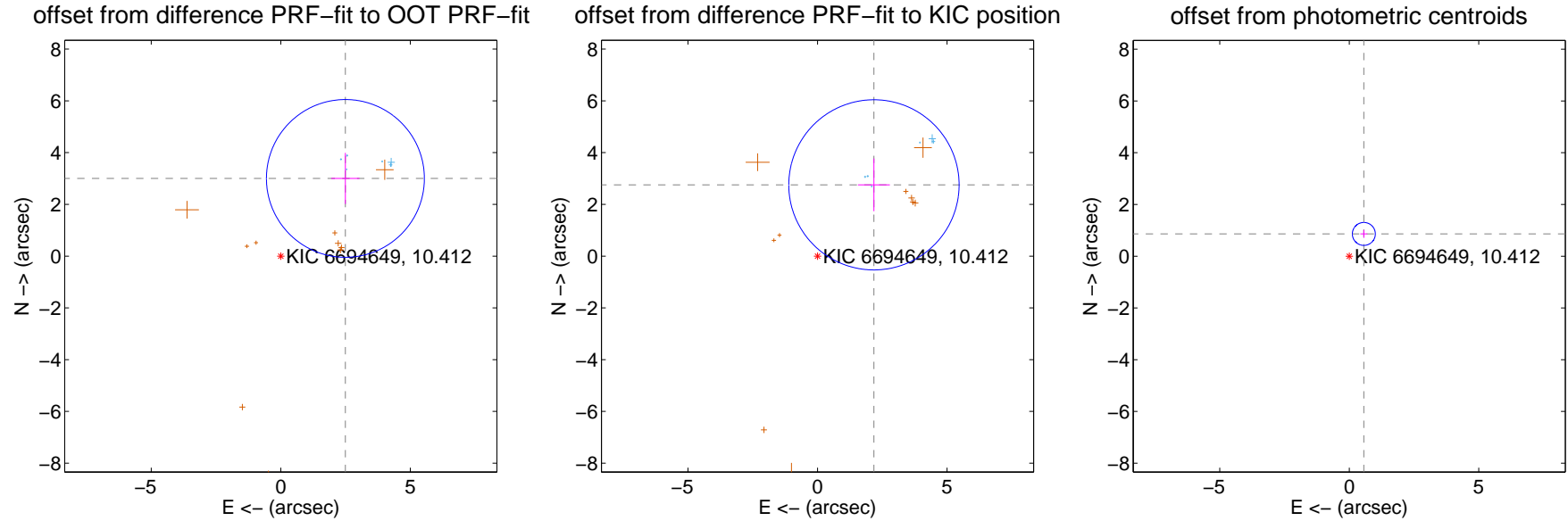
DV Centroid Data

Supplemental centroid analysis for 006694649-02. **Kepler magnitude: 10.41.** Transit SNR 10.96

There are 6 quarters with good PRF difference image offsets

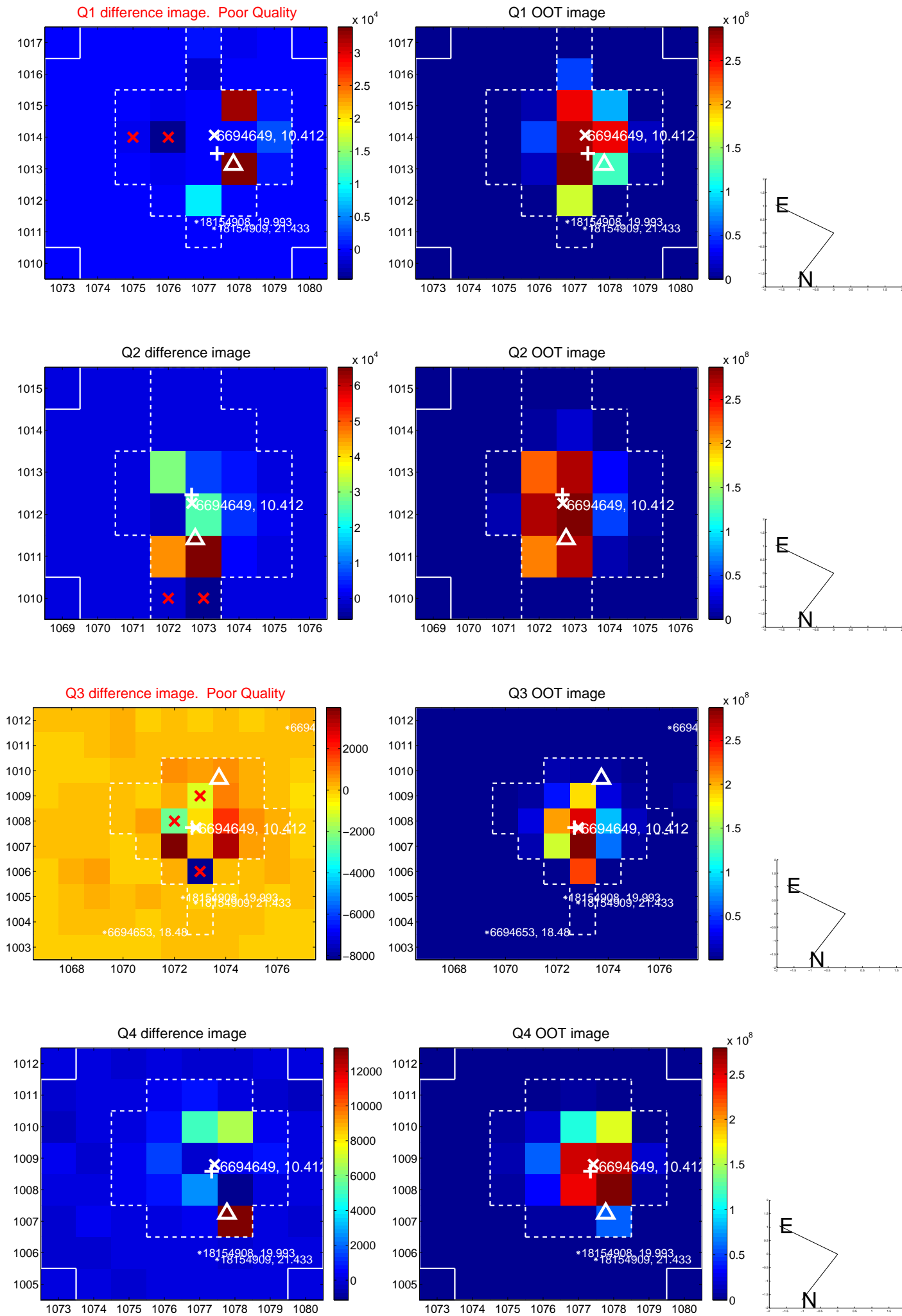
The OOT PRF centroid is offset from the target star catalog position by about 2.25 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.904 ± 1.016	3.84	-2.495 ± 0.545	3.003 ± 0.988
PRF-fit source offset from KIC position	3.512 ± 1.096	3.20	-2.179 ± 0.615	2.755 ± 1.020
photometric centroid source offset	1.03 ± 0.15	6.96	-0.56 ± 0.13	0.86 ± 0.15

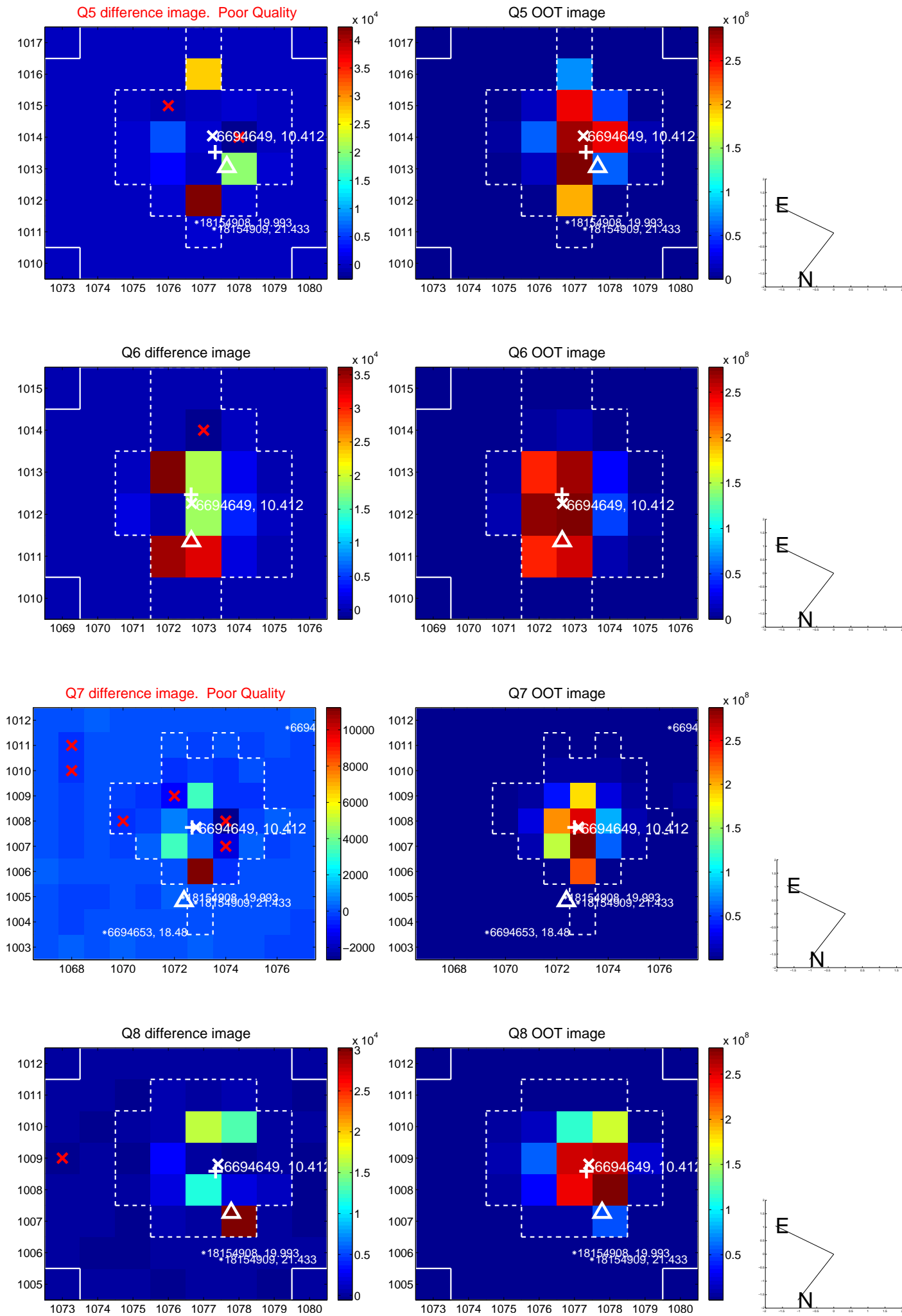


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

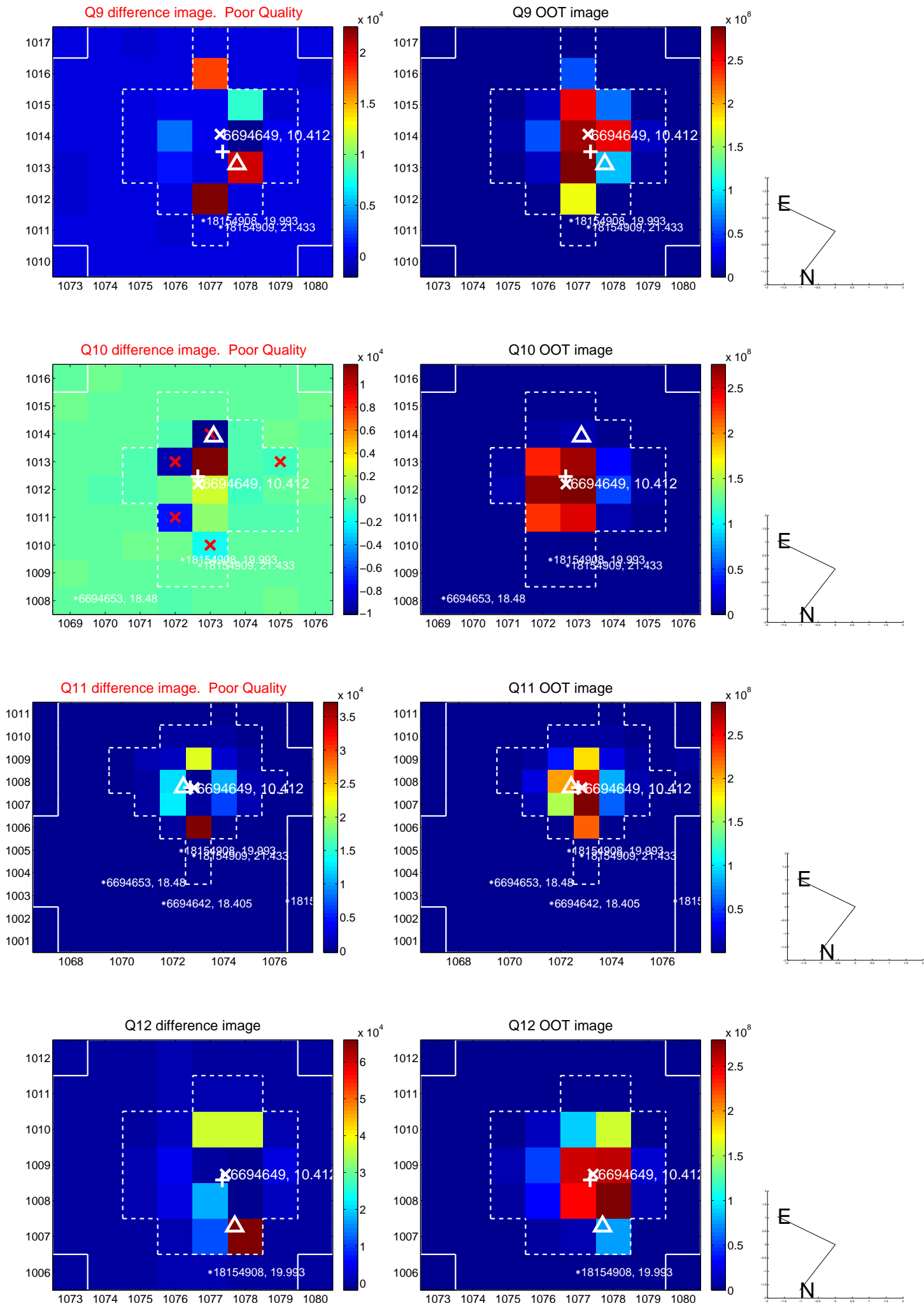
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



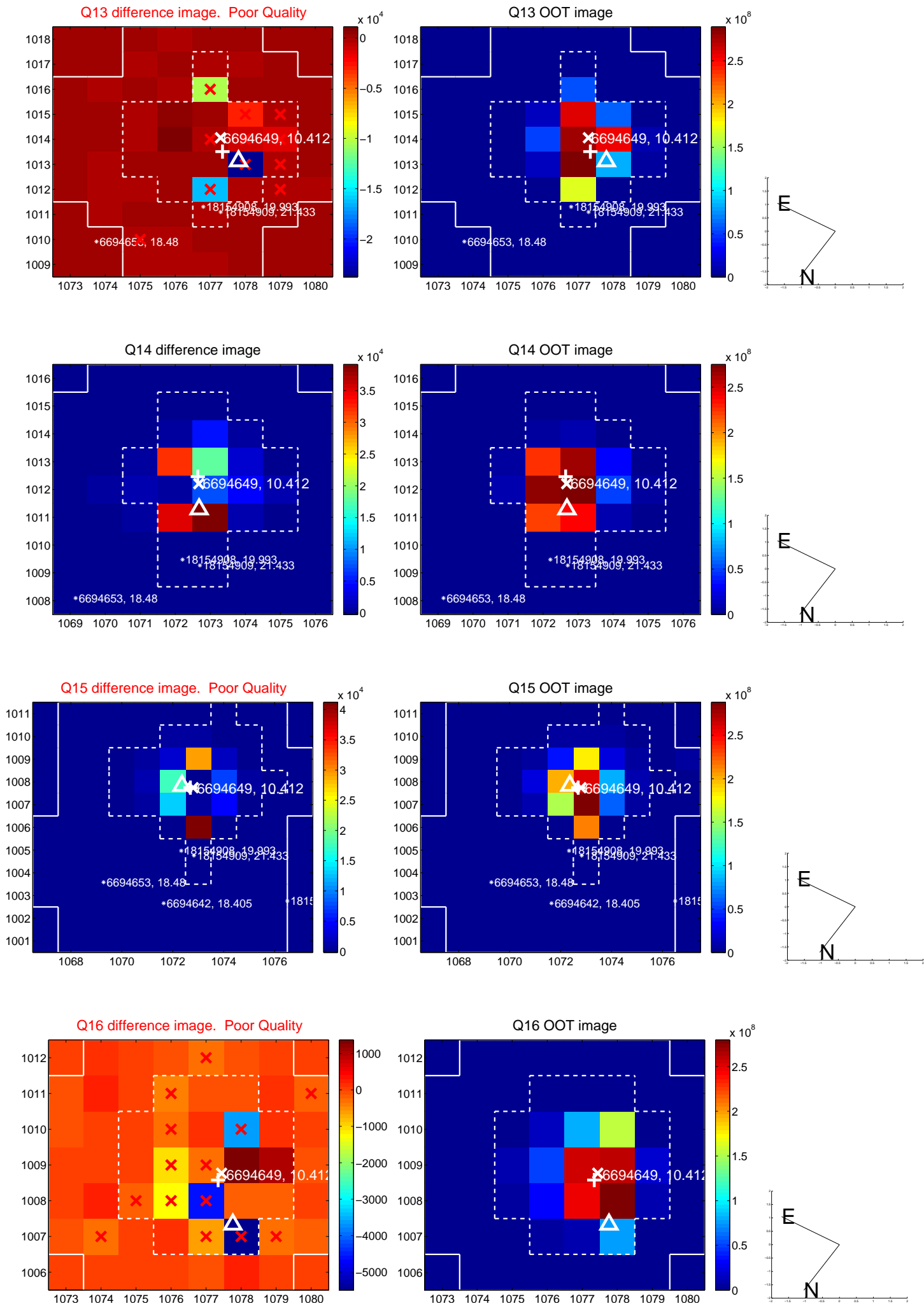
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



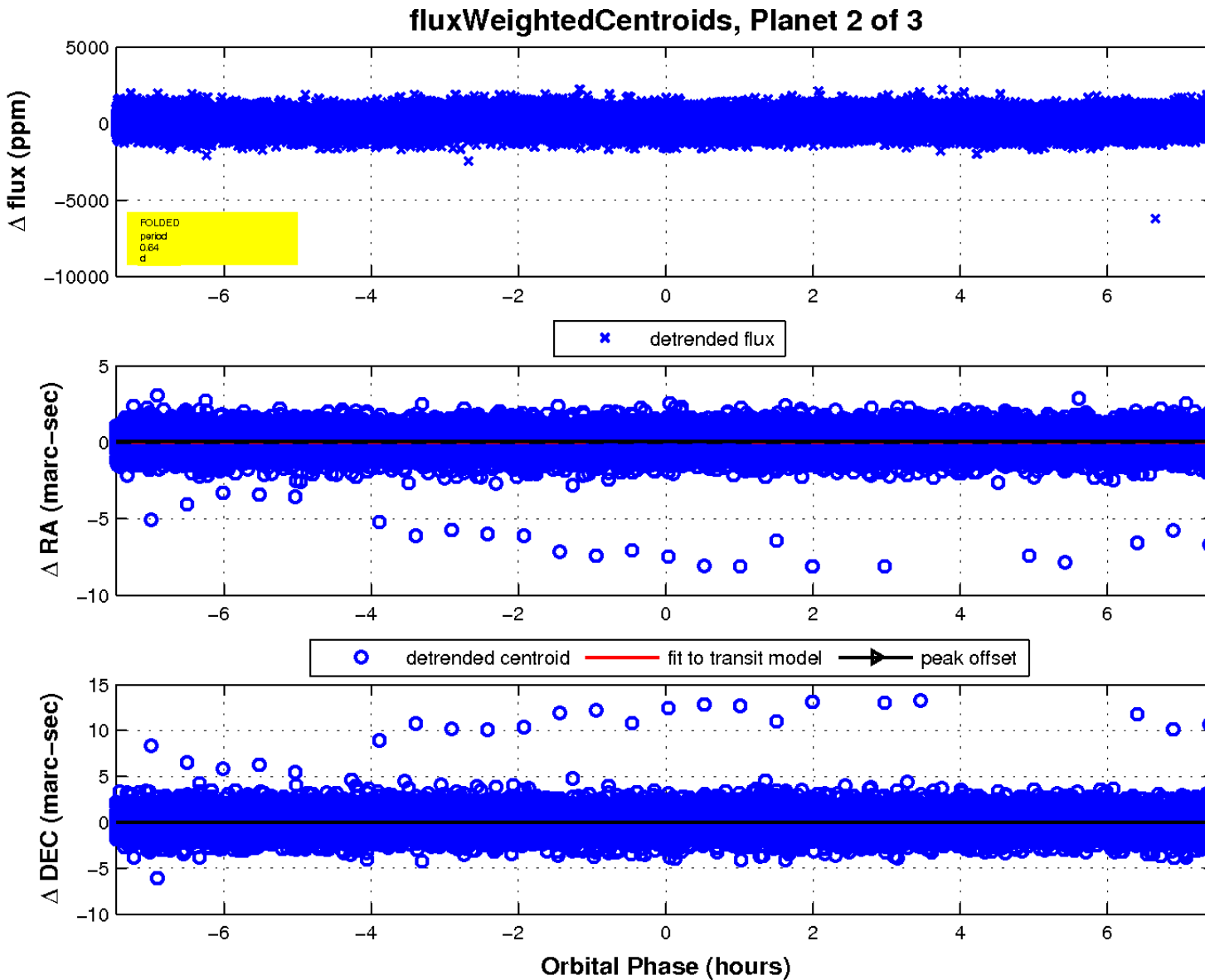
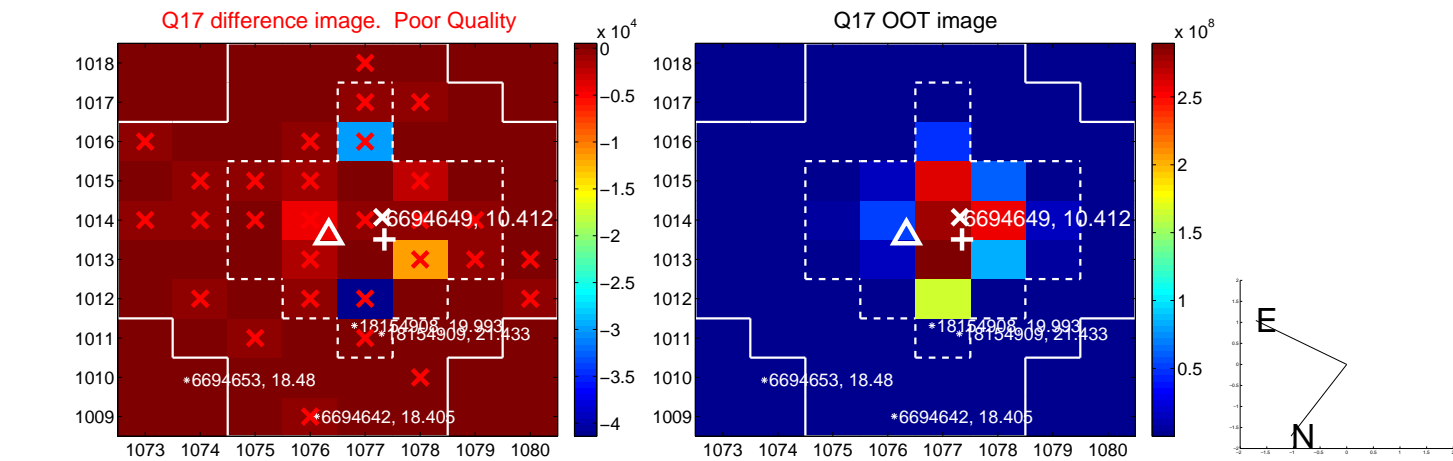
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

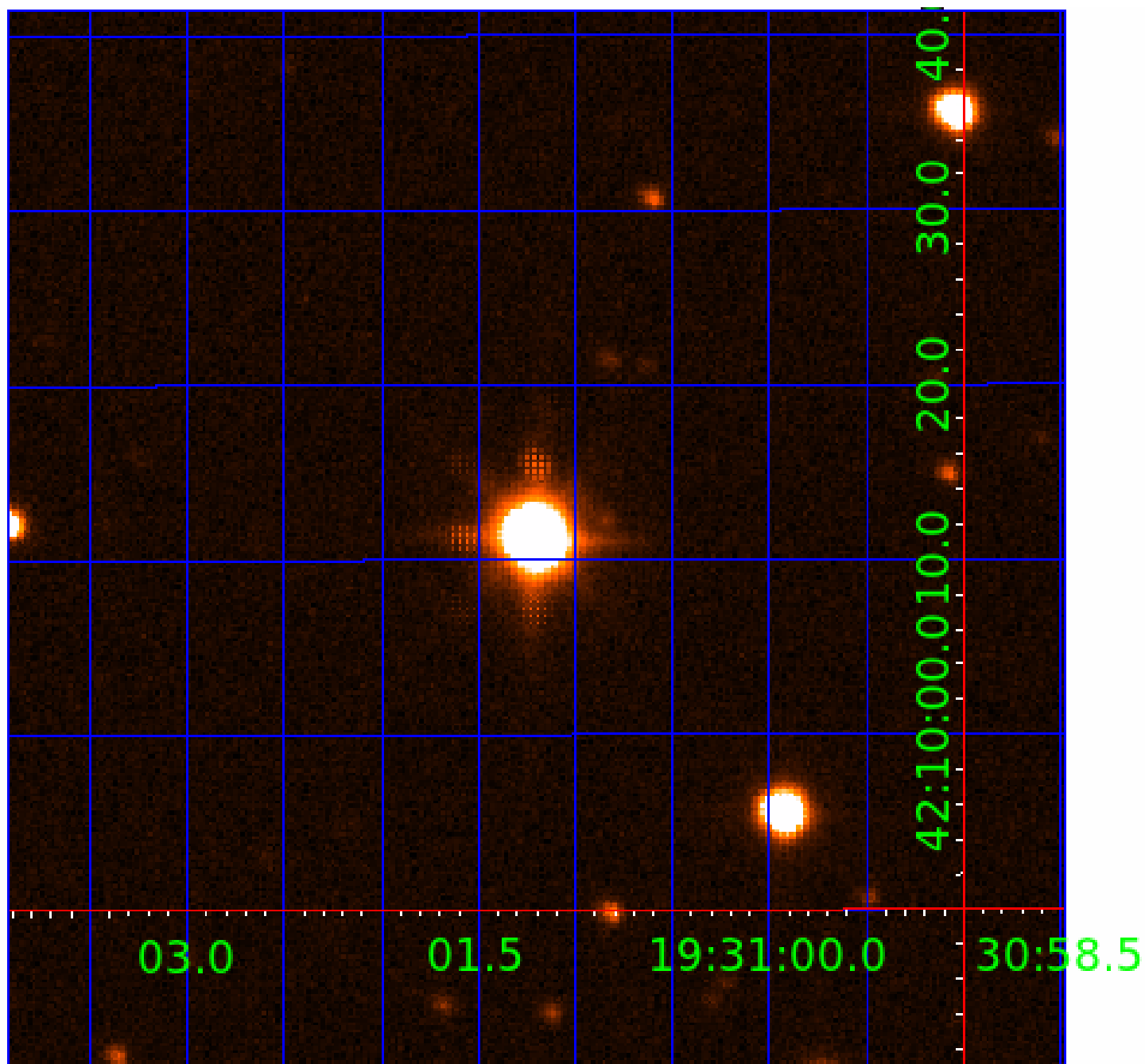


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006694649

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})
006694649-01	OBS	No	1.038500	132.492882	109.8	2.500	10.5	11.9	2.72	7803	3.32	38311.06
006694649-02	OBS	No	0.640198	131.825139	86.7	2.490	9.8	11.0	2.72	7803	2.94	73020.95
006694649-03	OBS	No	0.554695	131.625860	105.9	6.656	10.5	14.1	2.72	7803	2.83	88401.78

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006694649-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006694649-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
006694649-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_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.

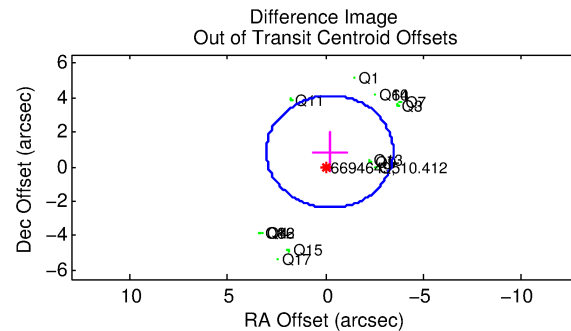
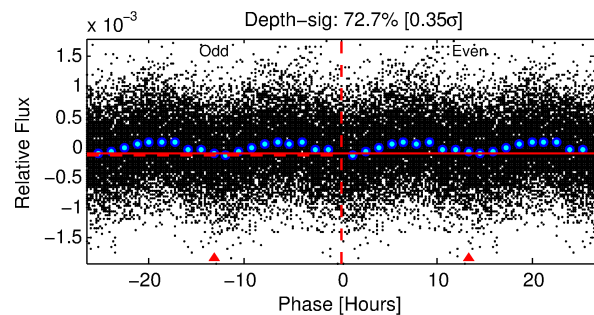
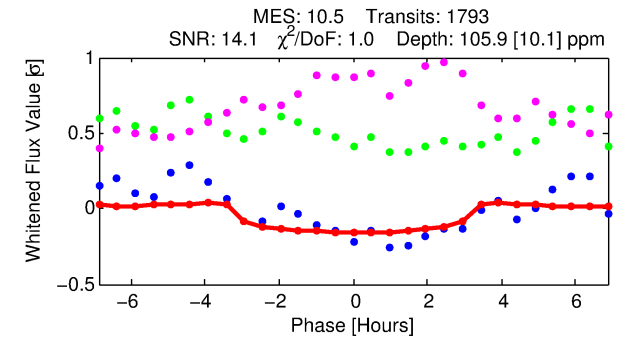
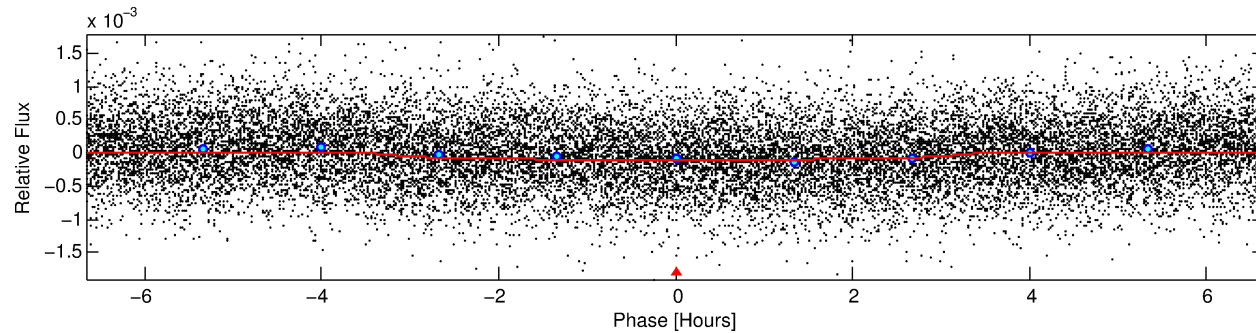
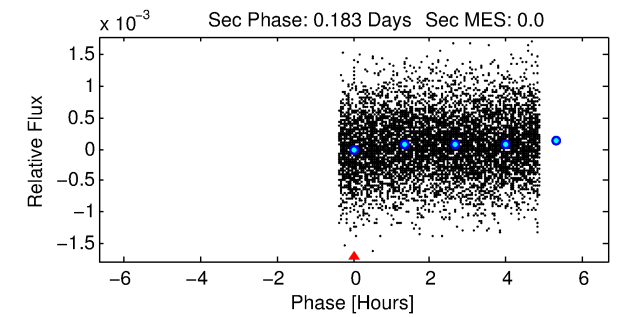
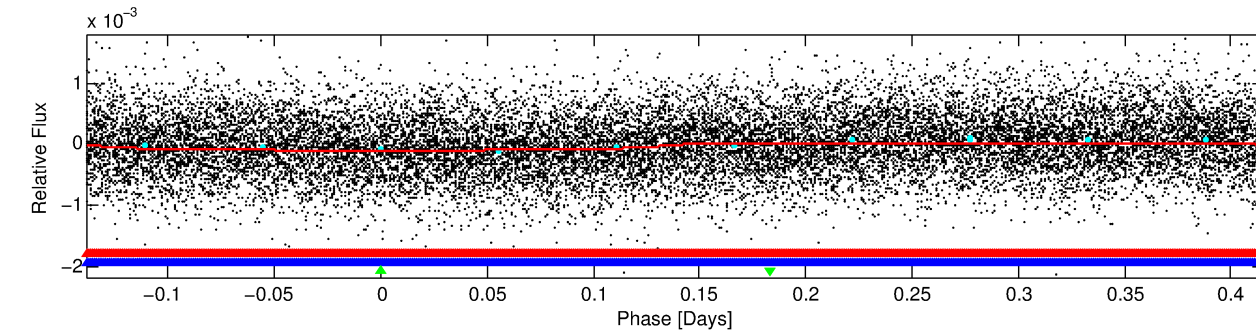
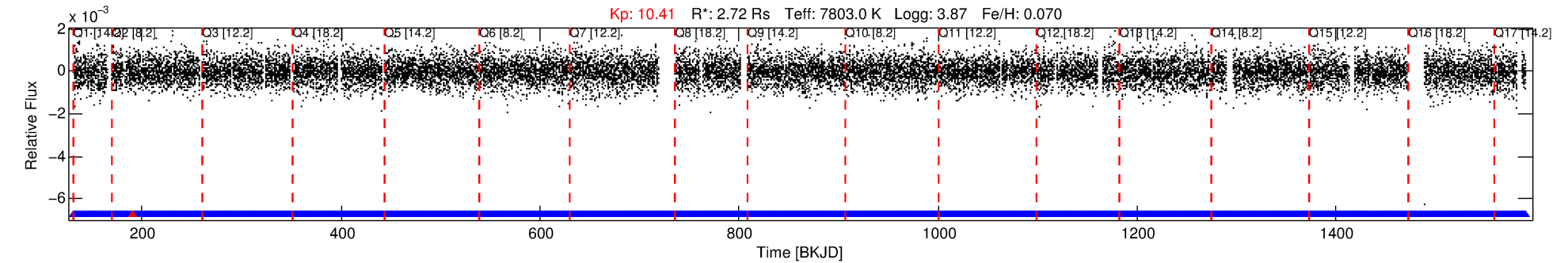
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006694649-03

No Significant Match Found

DV One-Page Summary

KIC: 6694649 Candidate: 3 of 3 Period: 0.555 d



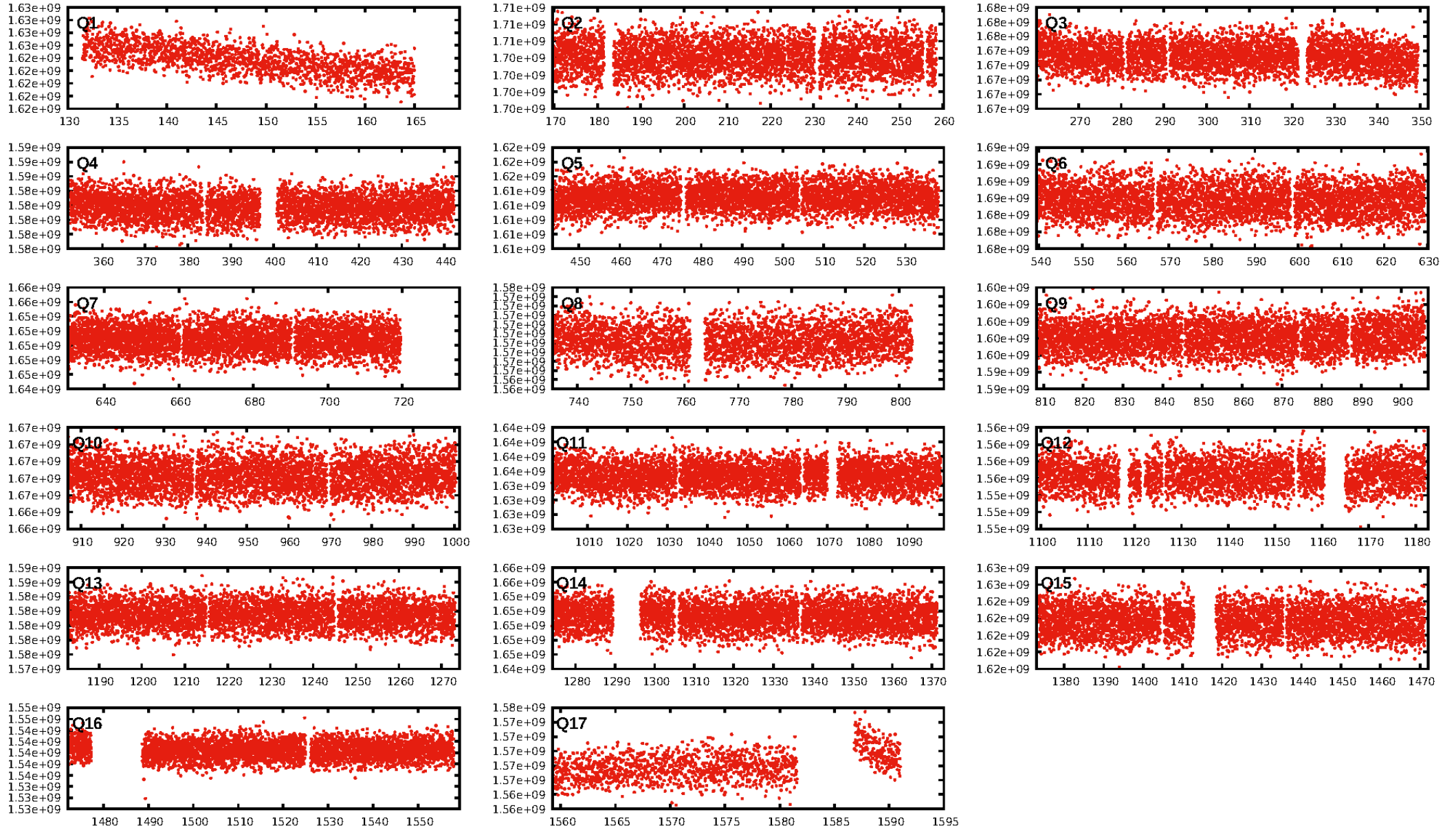
DV Fit Results:

Period = 0.55469 [0.00001] d
Epoch = 131.6259 [0.0043] BKJD
 R_p/R^* = 0.0095 [0.0041]
 a/R^* = 1.00 [0.01]
 b = 0.00 [1381.35]
 S_{eff} = 88401.78 [28578.88]
 T_{eq} = 4397 [355] K
 R_p = 2.83 [1.41] R_e
 a = 0.0167 [0.0035] AU
 A_g = N/A
 T_{eff} = N/A

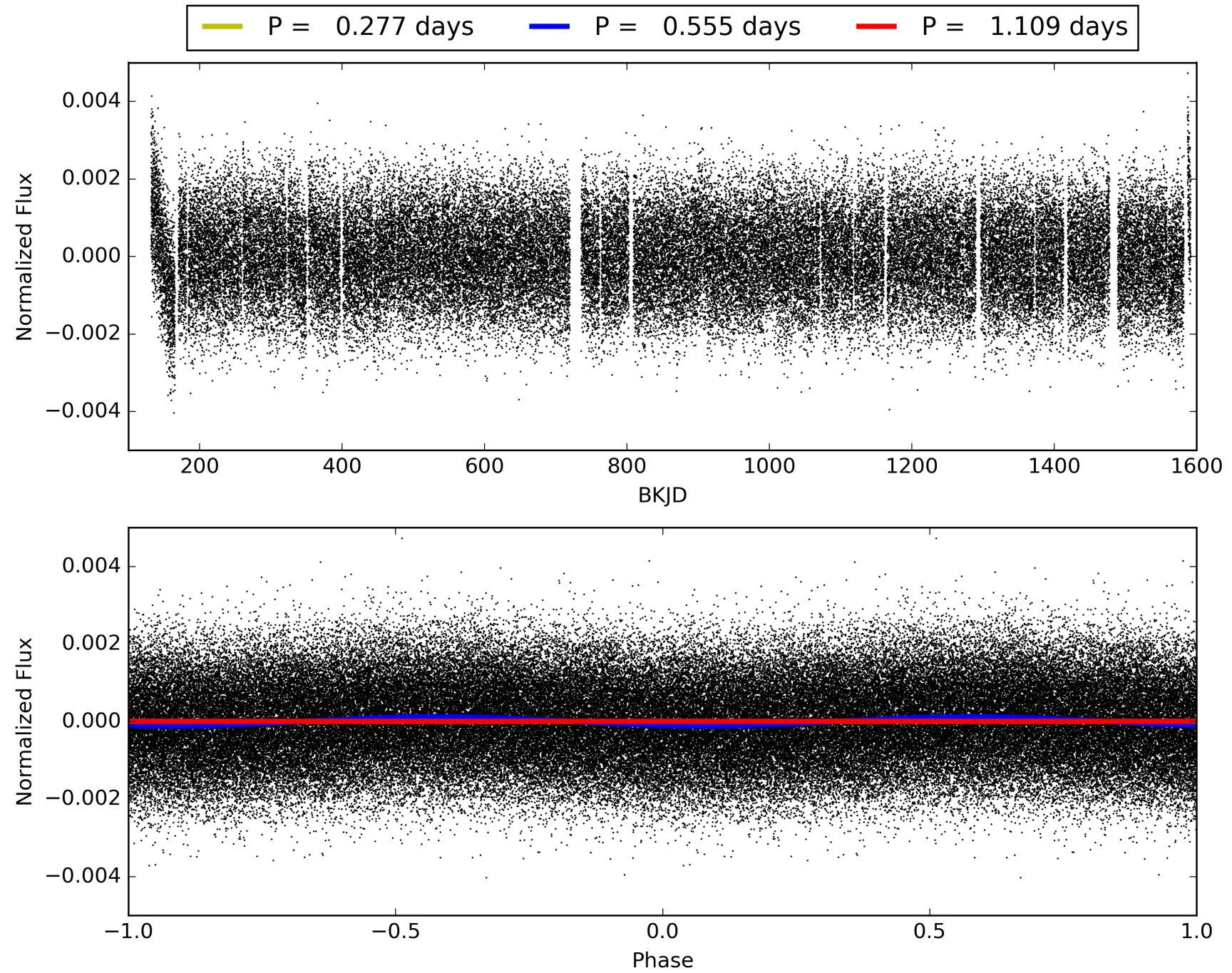
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 22.7% [0.29σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1706/1707]
GhostDiagnostic-chr: 2
Centroid-sig: 0.0%
Centroid-so: 1.197 arcsec [14.69σ]
OotOffset-rm: 0.892 arcsec [0.82σ]
KicOffset-rm: 1.016 arcsec [1.14σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.62 [10/16]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006694649-03, PDC Light Curves

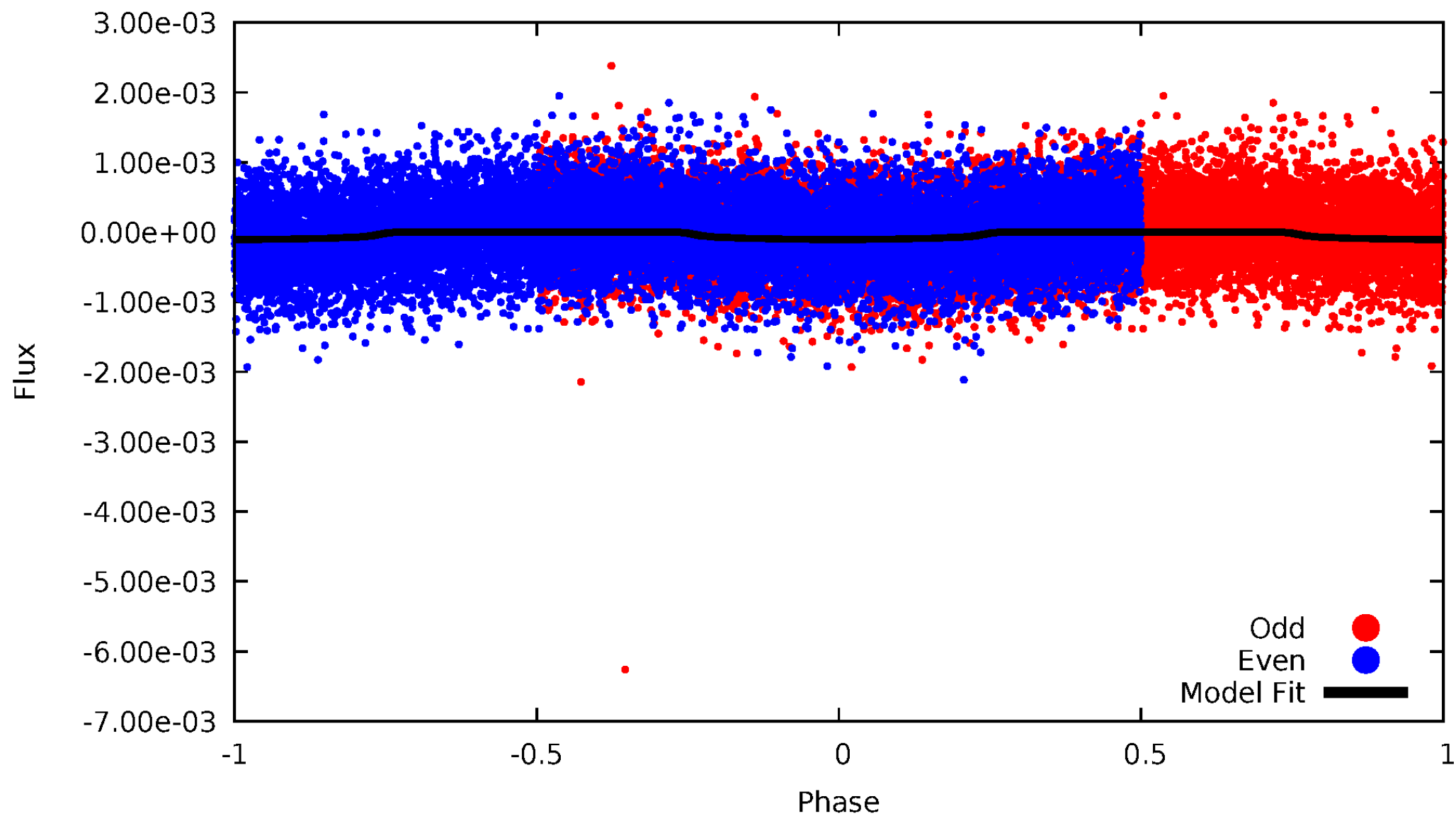


TCE 006694649-03



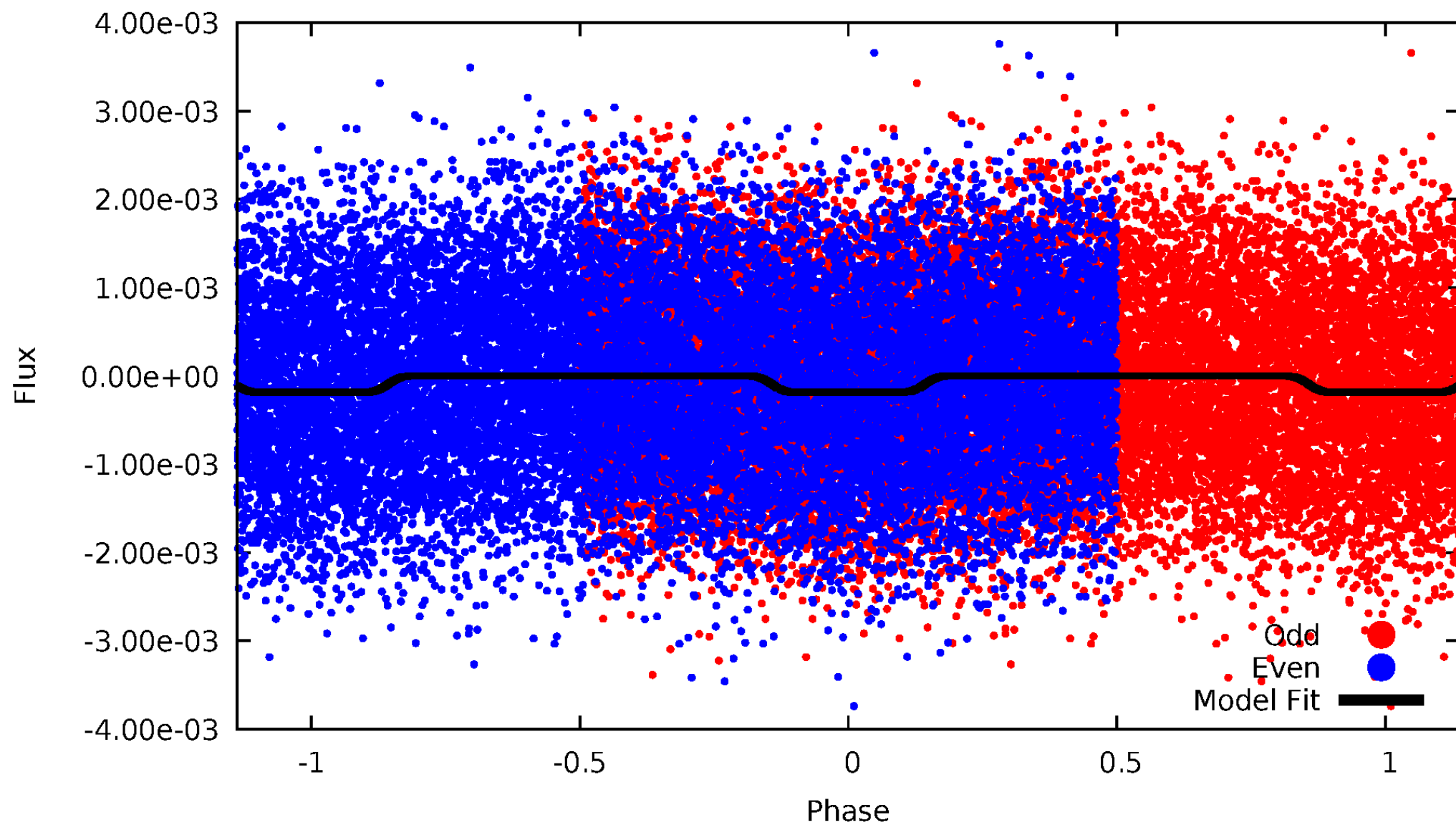
DV Odd/Even

TCE 006694649-03



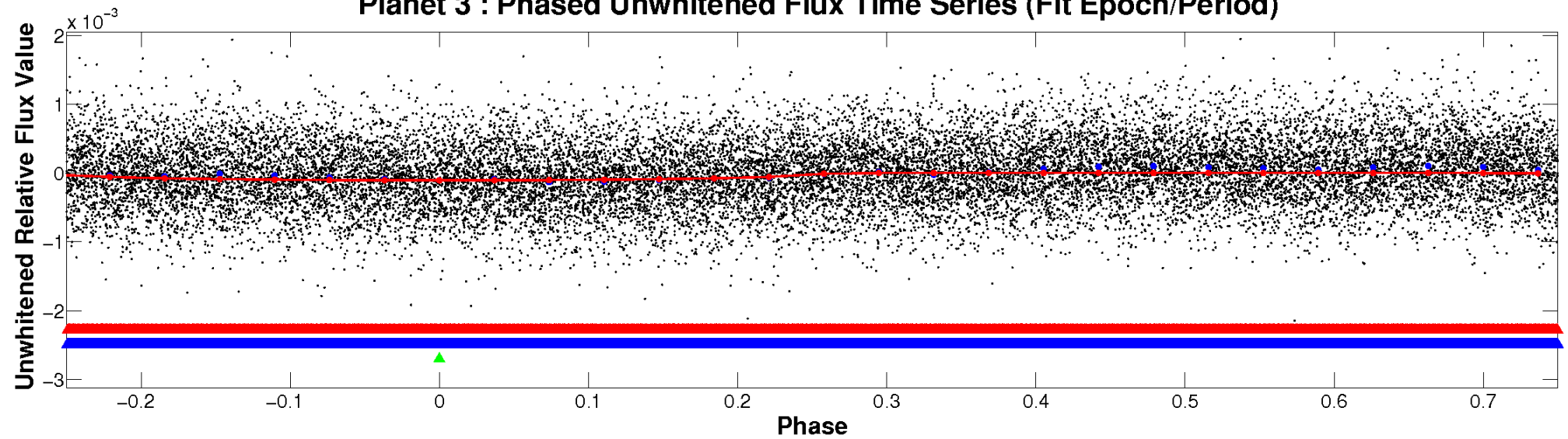
ALT Odd/Even

TCE 006694649-03

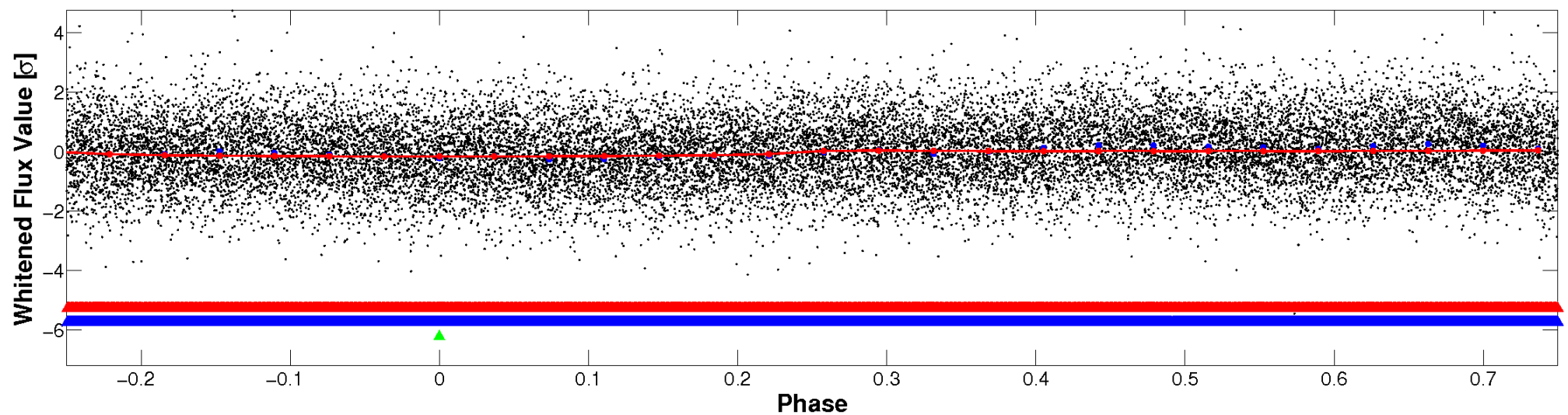


Non-Whitened Vs. Whitened Light Curve

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

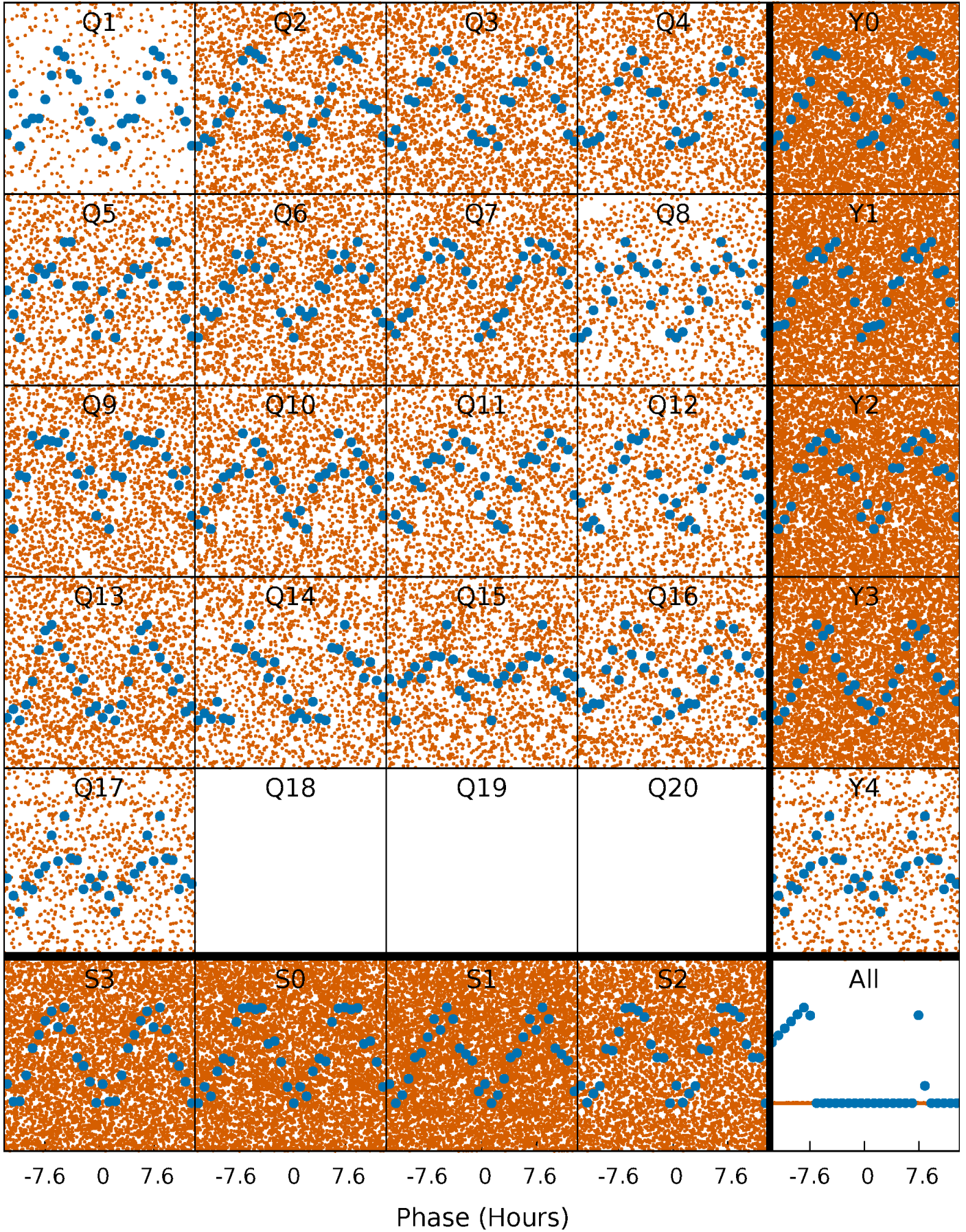


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



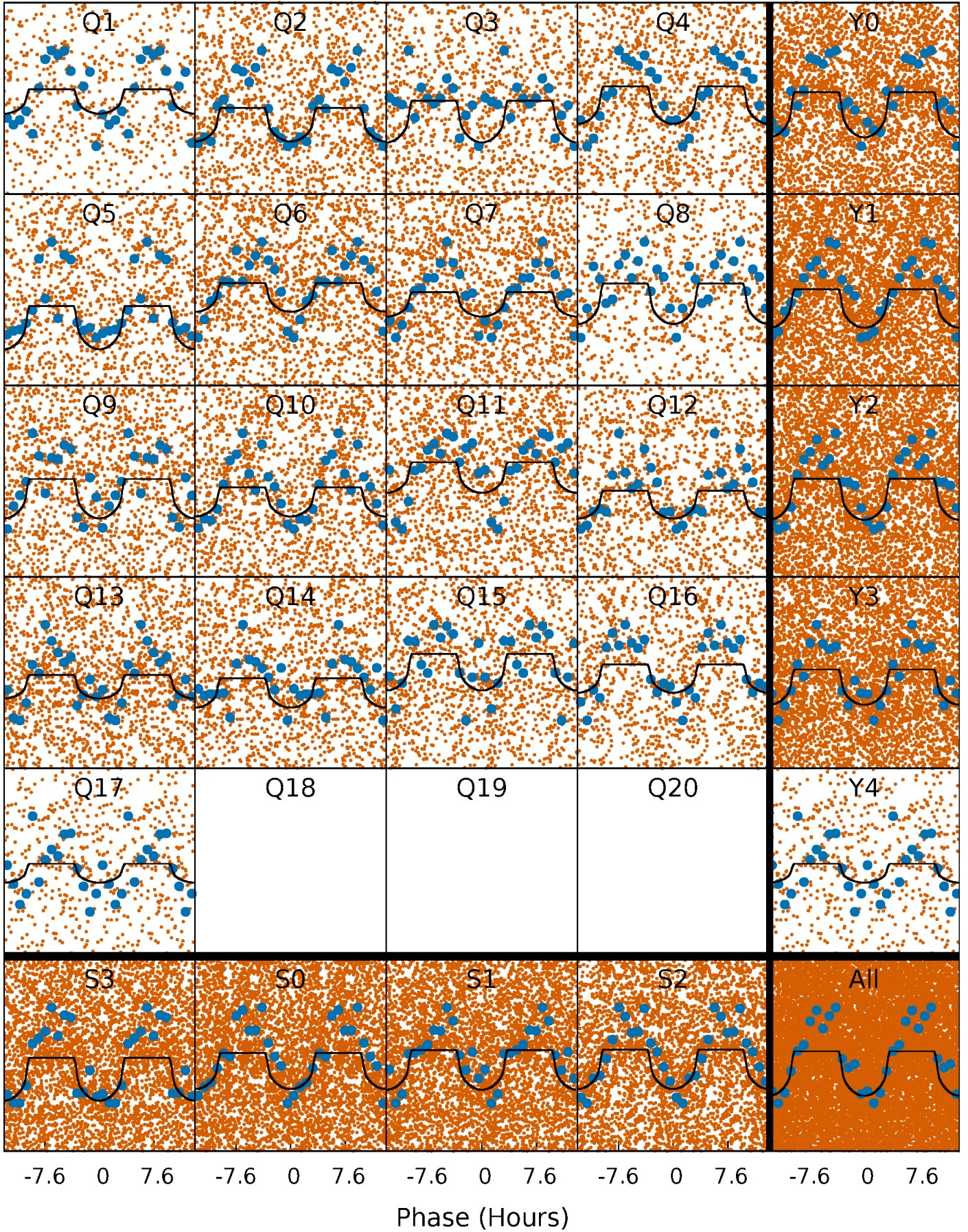
PDC Quarter-Phased Transit Curves

TCE 006694649-03 P= 0.554695 Days $T_0=131.625860$ (BKJD)



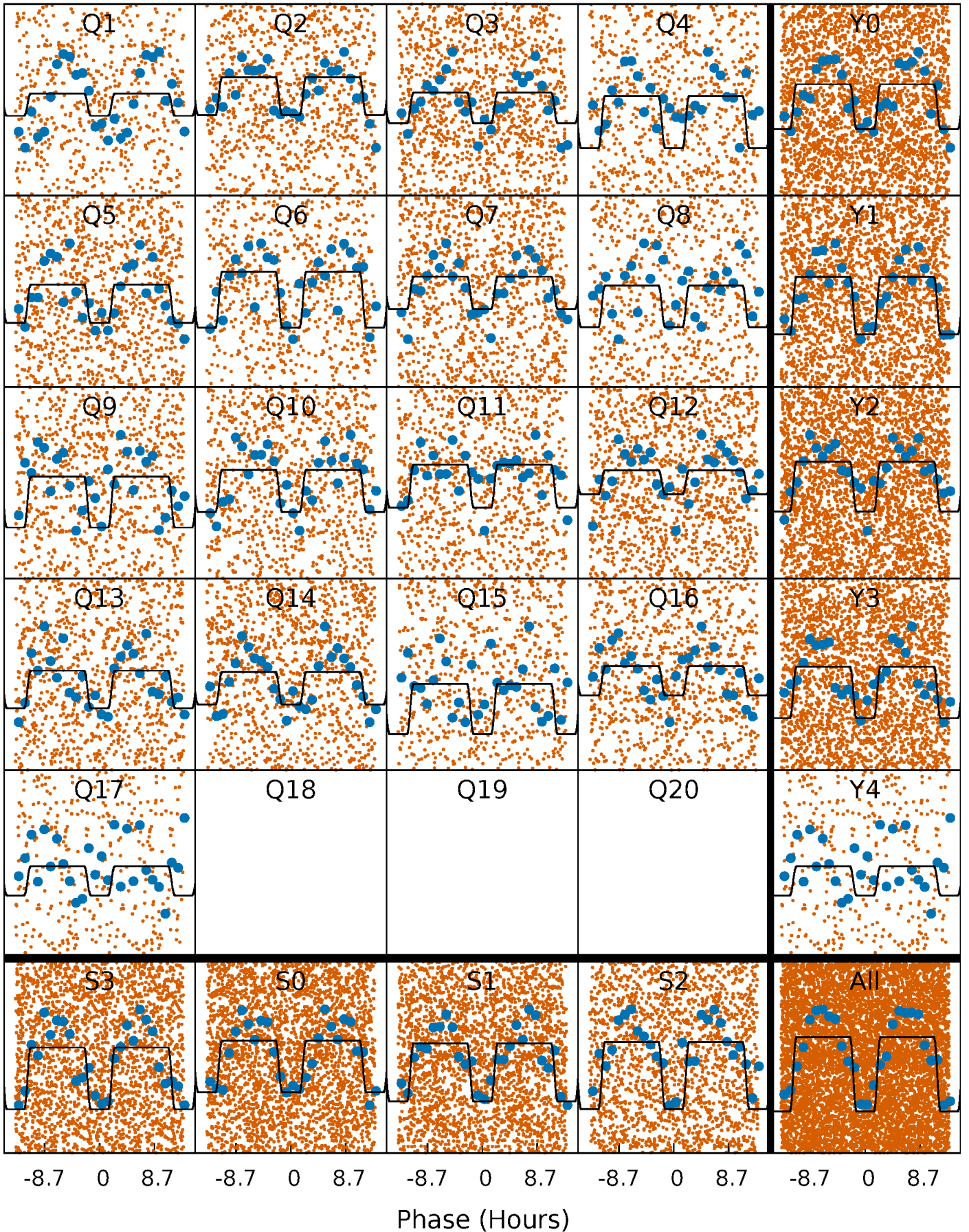
DV Quarter-Phased Transit Curves

TCE 006694649-03 P= 0.554695 Days $T_0=131.625860$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

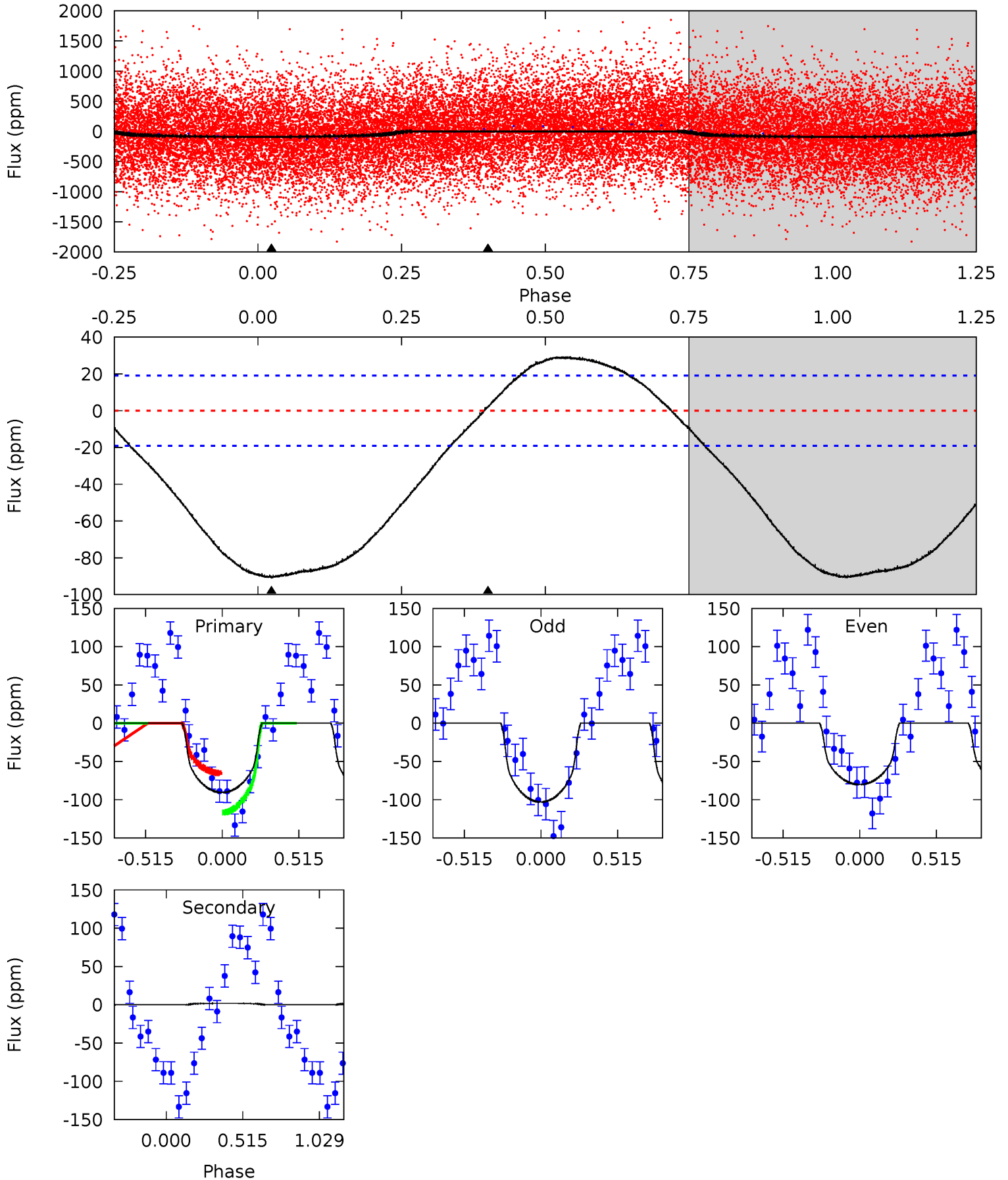
TCE 006694649-03 P= 0.554733 Days $T_0=131.612013$ (BKJD)



DV Model-Shift Uniqueness Test

006694649-03, P = 0.554695 Days, E = 131.625860 Days

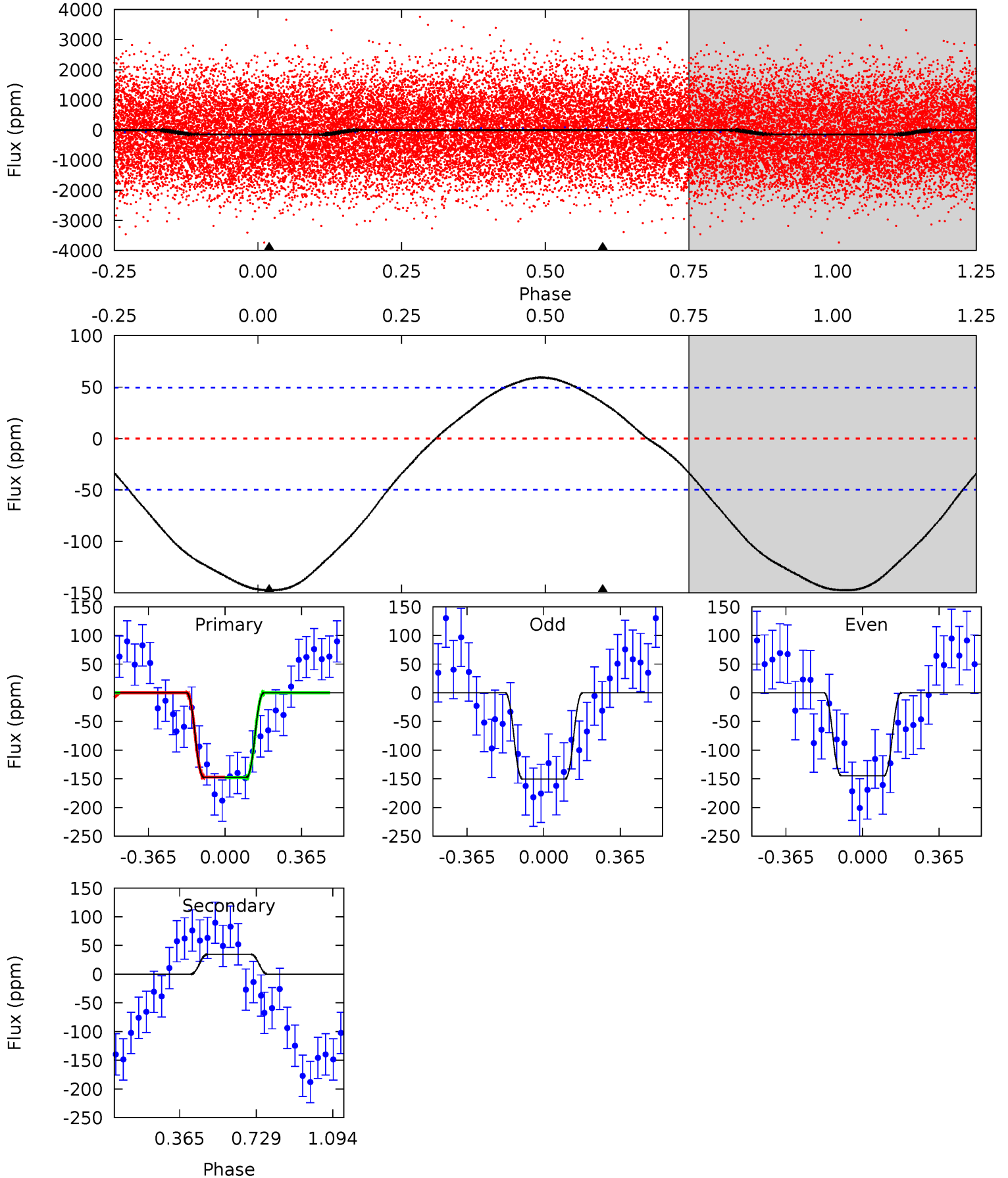
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.0	-0.44	0	0	4.21	0.65	2.04	20.0	20.0	-0.44	-0.44	2.53	1.41	0.25	5.74



Alt Model-Shift Uniqueness Test

006694649-03, P = 0.554733 Days, E = 131.612013 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	-3.01	0	0	4.29	0.91	1.33	12.7	12.7	-3.01	-3.01	0.25	1.00	0.29	0.03



Stellar Parameters For KIC 006694649

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7803^{+70}_{-93}	$3.872^{+0.180}_{-0.060}$	$0.070^{+0.150}_{-0.150}$	$2.722^{+0.281}_{-0.657}$	$2.012^{+0.164}_{-0.246}$	$0.141^{+0.133}_{-0.028}$
	+1%/-1%	+5%/-2%	+214%/-214%	+10%/-24%	+8%/-12%	+95%/-20%
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 006694649-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	2 ± 5	$2.67^{+1.23}_{-1.14}$	6083^{+199}_{-328}	-5085^{+402}_{-482}	$-0.035^{+0.080}_{-0.161}$
Alt.	35 ± 12	$3.83^{+1.26}_{-1.17}$	6102^{+185}_{-361}	-5889^{+411}_{-791}	$-0.352^{+0.175}_{-0.433}$

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 $A_{obs} \gg 1.0$

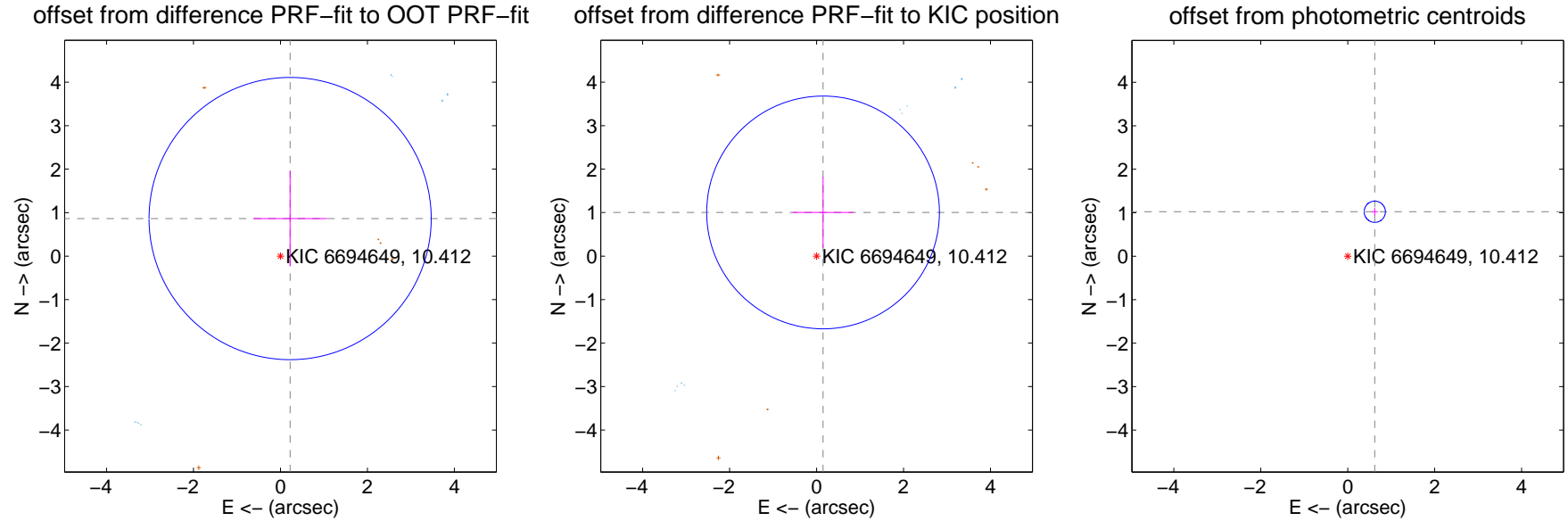
DV Centroid Data

Supplemental centroid analysis for 006694649-03. **Kepler magnitude: 10.41.** Transit SNR 14.15

There are 10 quarters with good PRF difference image offsets

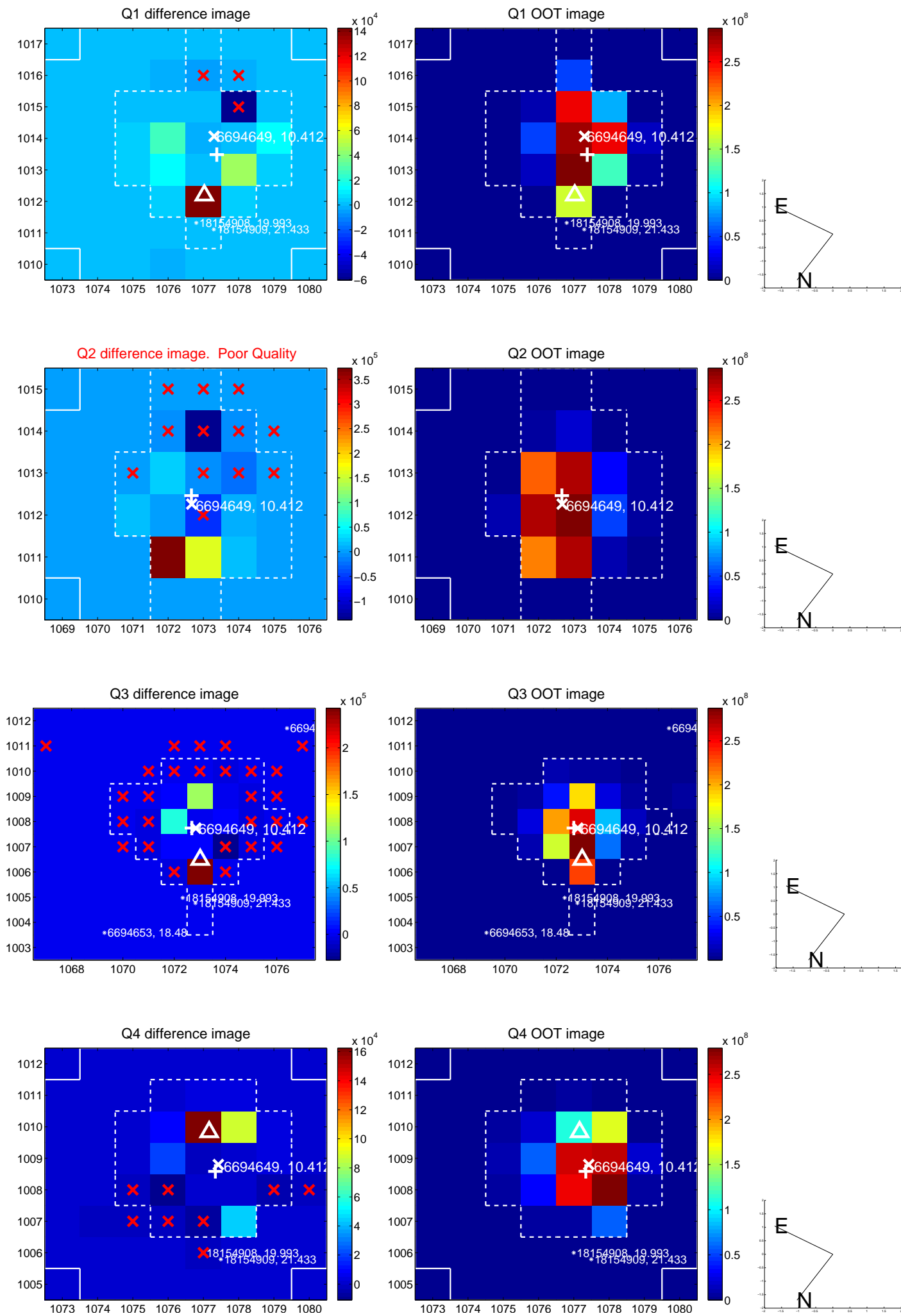
The OOT PRF centroid is offset from the target star catalog position by about 2.26 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.892 ± 1.082	0.82	-0.222 ± 0.849	0.864 ± 1.095
PRF-fit source offset from KIC position	1.016 ± 0.892	1.14	-0.149 ± 0.698	1.005 ± 0.818
photometric centroid source offset	1.20 ± 0.08	14.69	-0.62 ± 0.07	1.02 ± 0.09

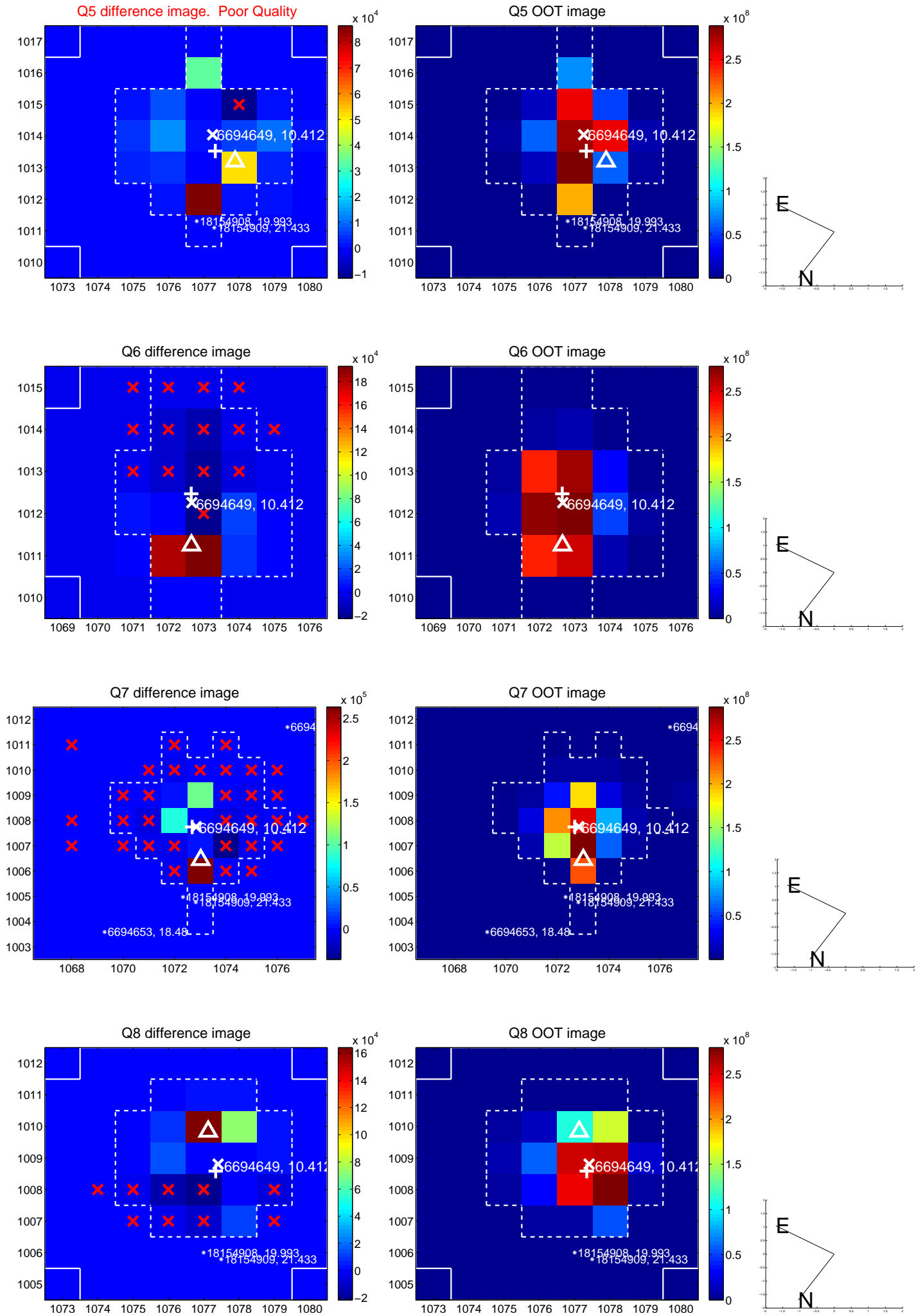


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

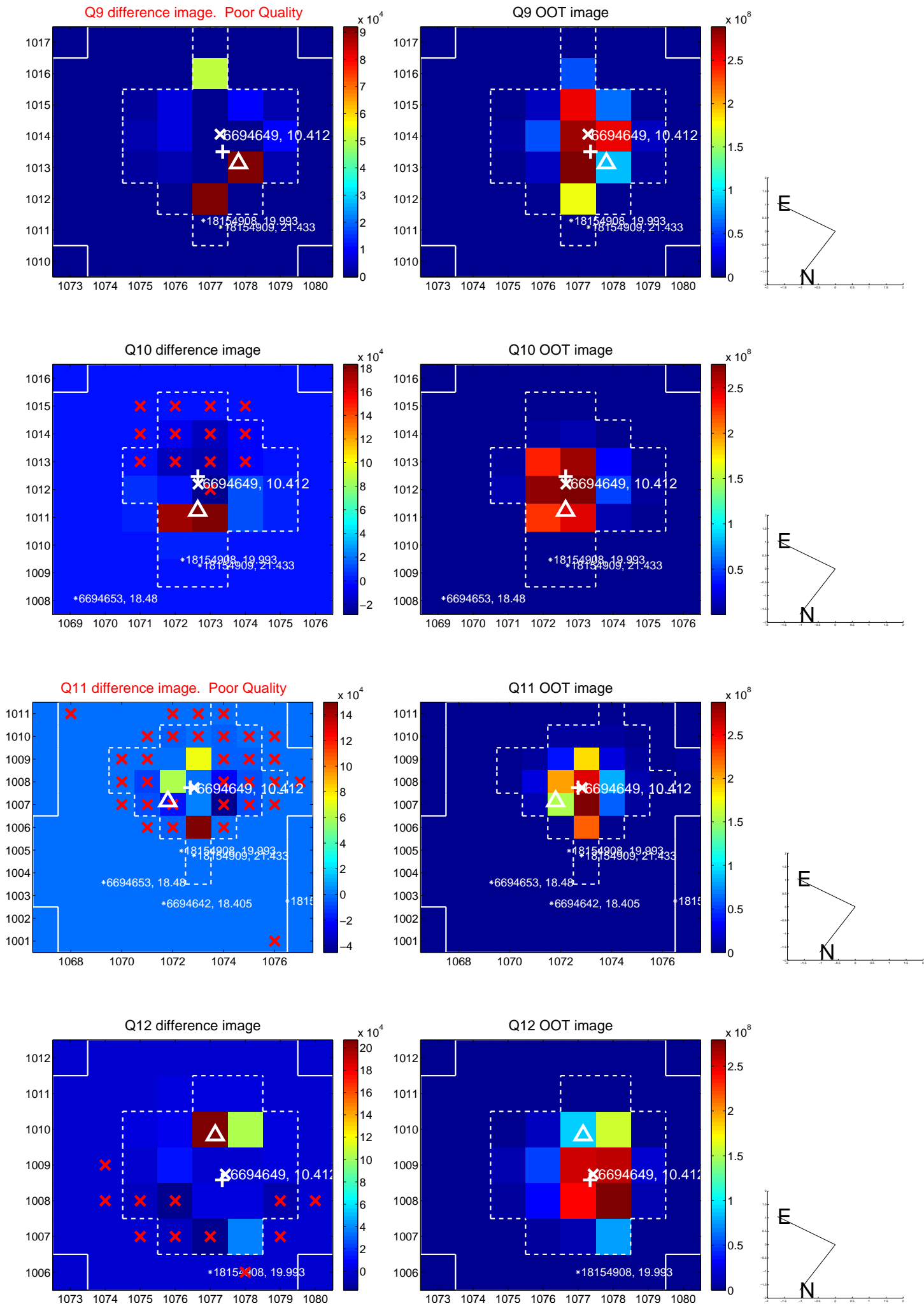
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



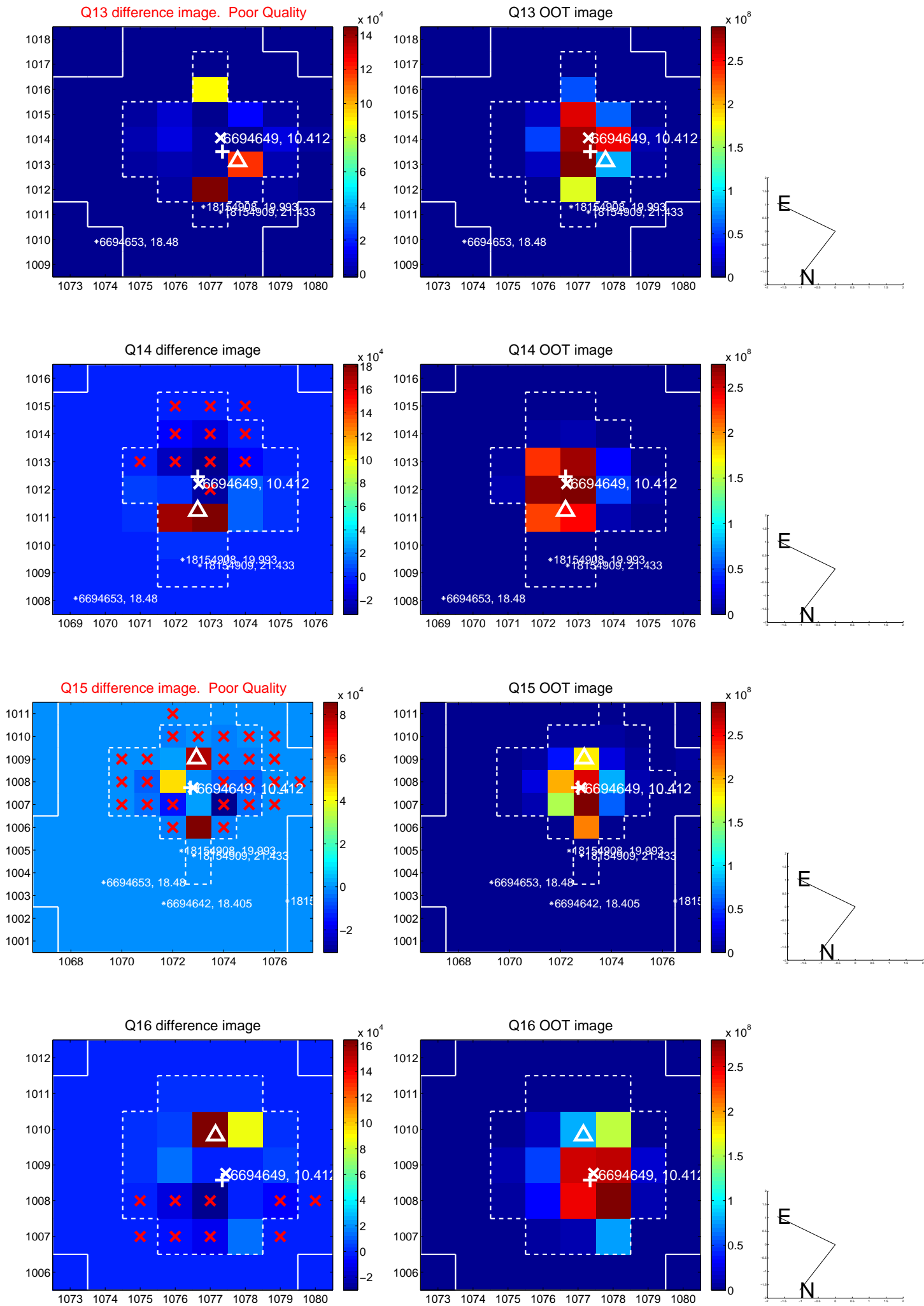
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



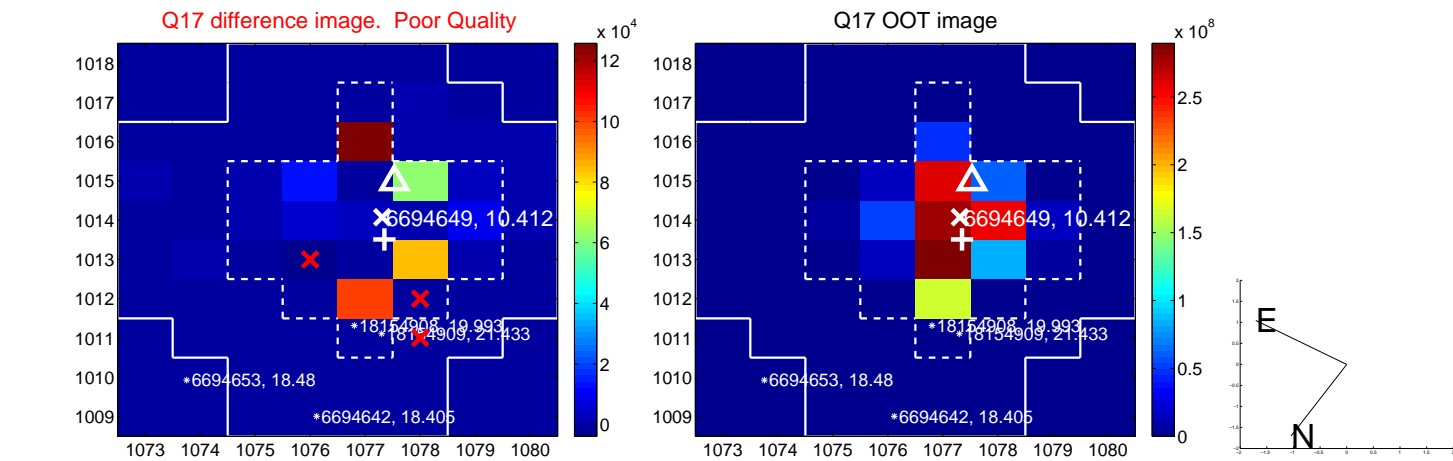
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



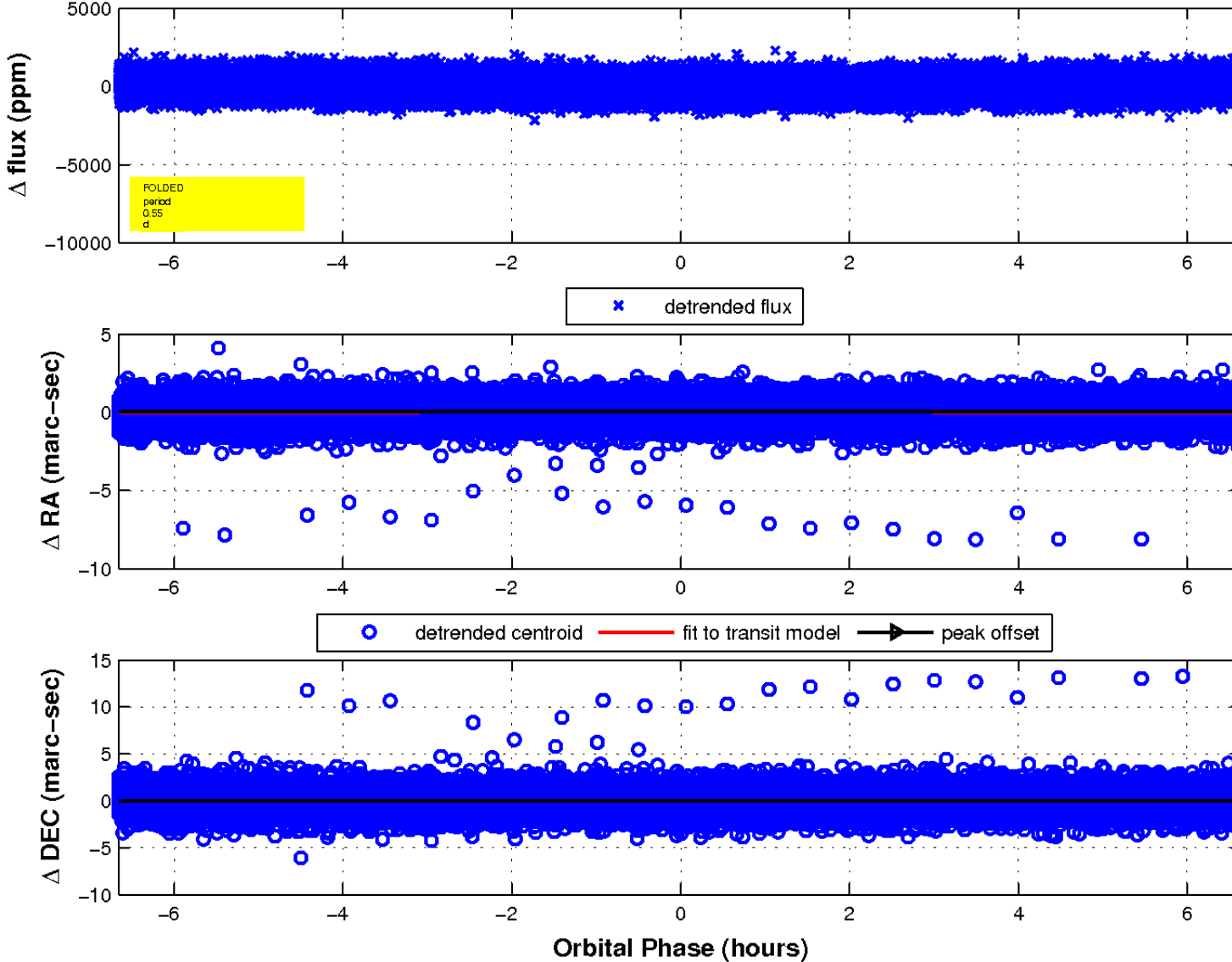
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

