

KIC 002445975

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})
002445975-01	OBS	0053.01	3.388883	131.593226	11142.4	2.637	462.3	437.2	1.00	5780	11.57	512.70
002445975-02	OBS	No	3.388968	131.781827	835.9	2.500	11.9	-1.0	1.00	5780	2.87	512.68
002445975-03	OBS	No	3.388753	134.795415	301.3	1.881	11.3	14.2	1.00	5780	1.80	512.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002445975-01	OBS	FP	0.00	0	1	1	0	MOD_ODDEVEN_DV—CENT_UNRESOLVED_OFFSET
002445975-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—RESIDUAL_TCE—CENT_NOFITS
002445975-03	OBS	FP	0.00	1	0	0	0	LPP_DV—RESIDUAL_TCE—CENT_FEW_DIFFS

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.

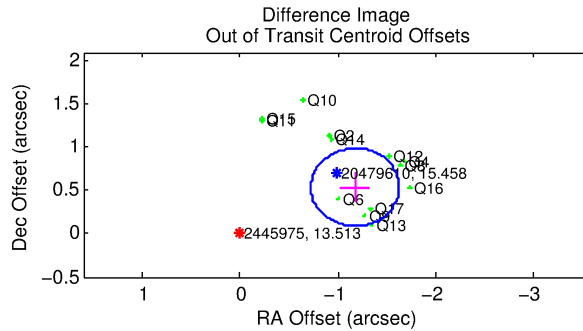
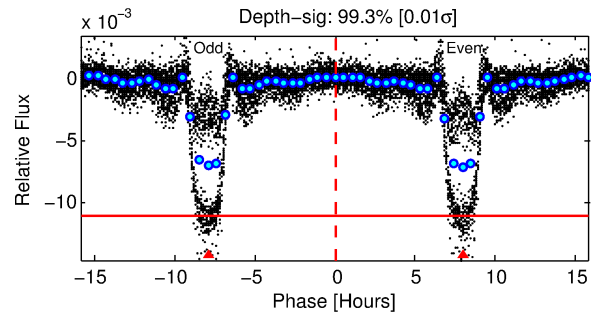
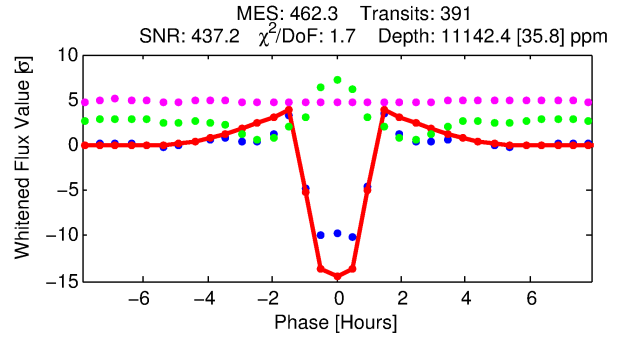
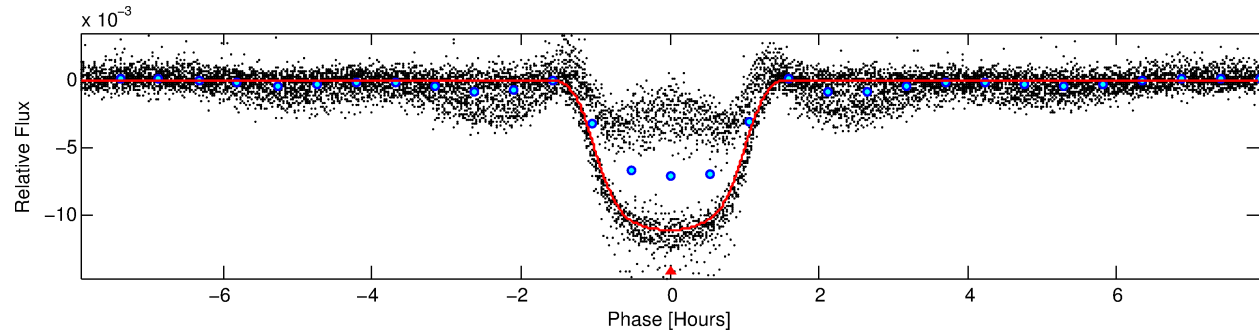
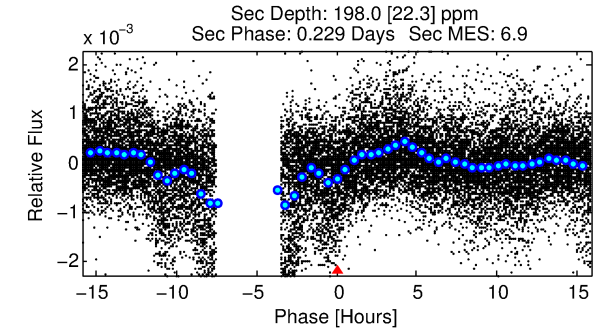
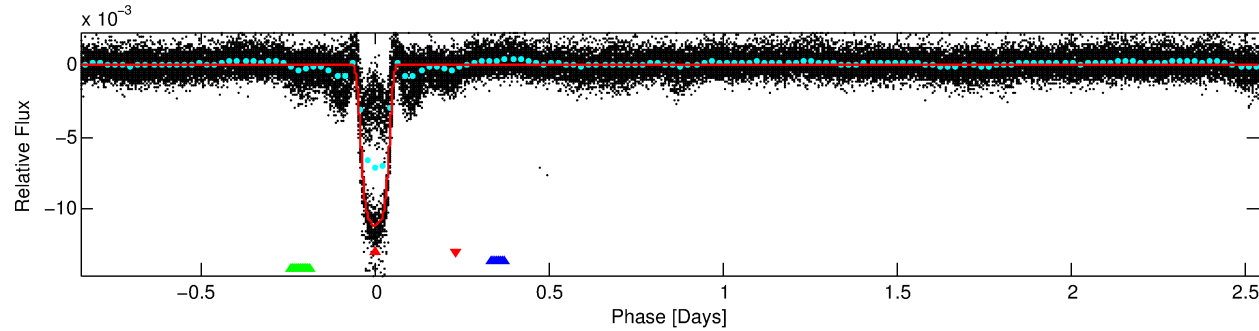
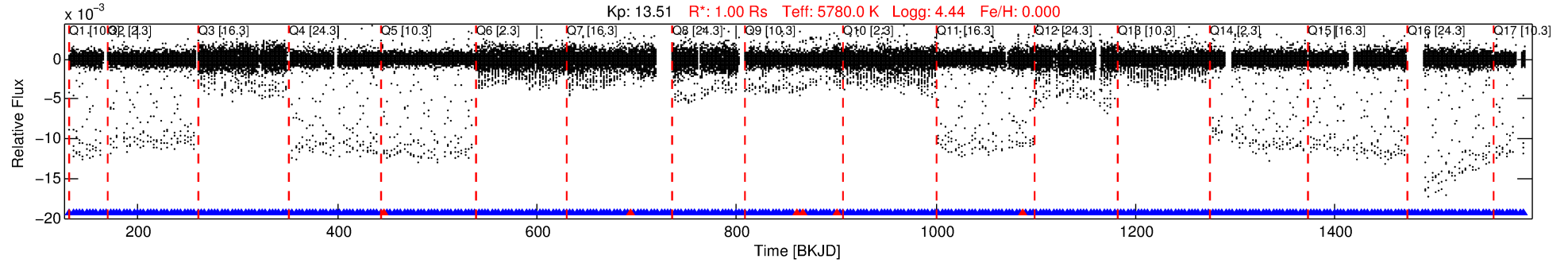
Ephemeris Match Information For 002445975-01

No Significant Match Found

DV One-Page Summary

KIC: 2445975 Candidate: 1 of 3 Period: 3.389 d

KOI: K00053.01 Corr: 0.983



DV Fit Results:

Period = 3.38888 [0.00000] d
Epoch = 131.5932 [0.0001] BKJD
Rp/R* = 0.1061 [0.0004]
a/R* = 7.92 [0.10]
b = 0.76 [0.01]
Seff = 512.70 [0.00]
Teq = 1213 [0] K
Rp = 11.57 [0.04] Re
a = 0.0442 [0.0000] AU
Ag = 1.59 [0.18] [3.28σ]
Teffp = 2105 [59] K [15.03σ]

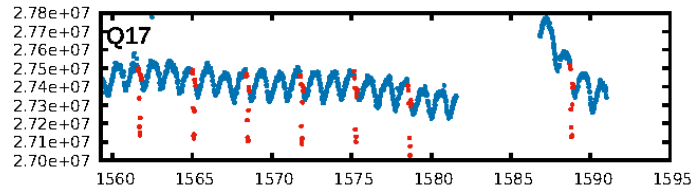
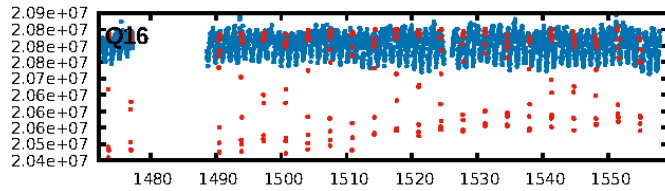
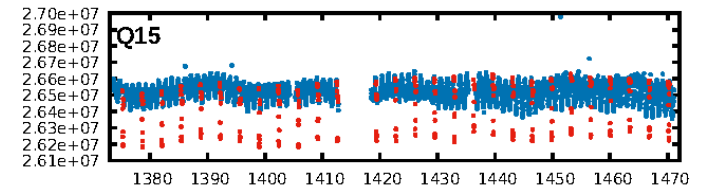
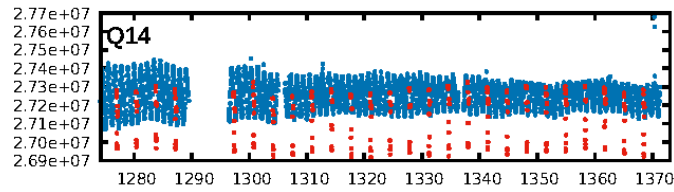
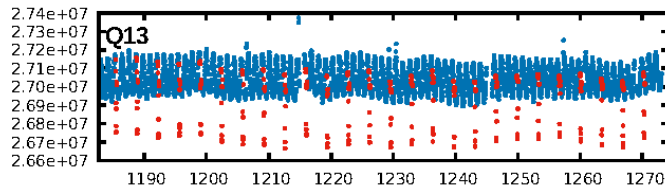
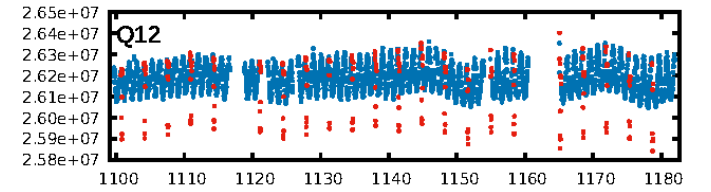
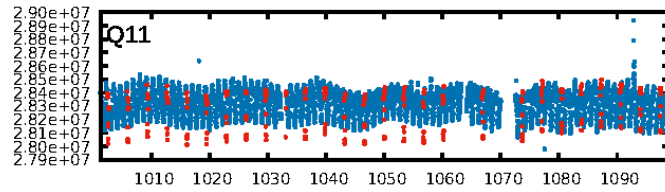
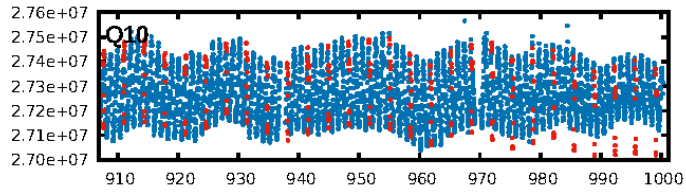
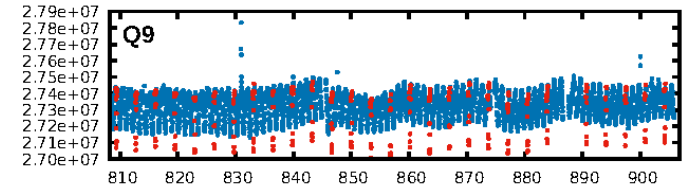
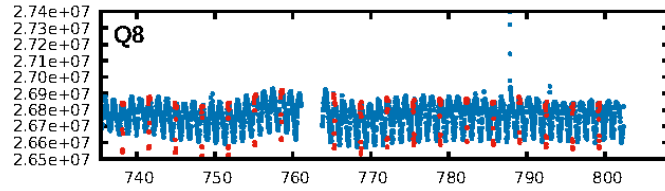
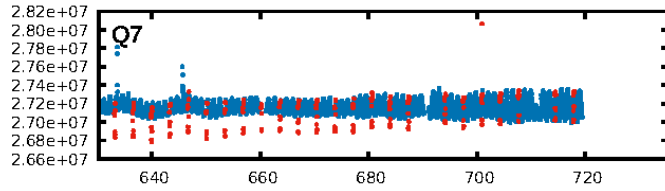
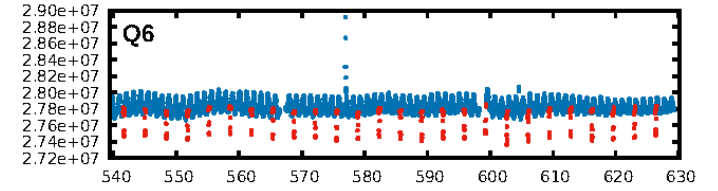
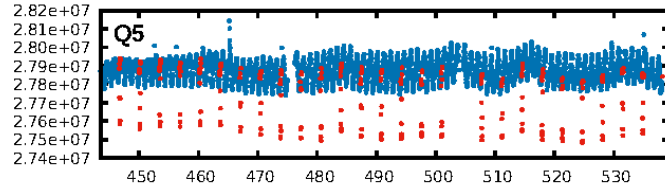
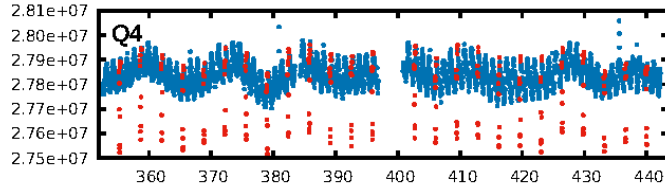
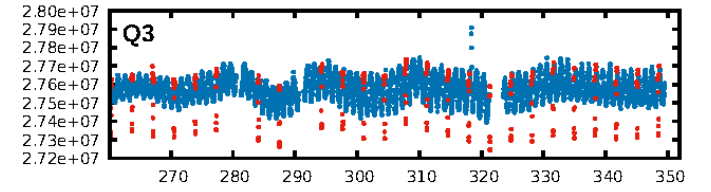
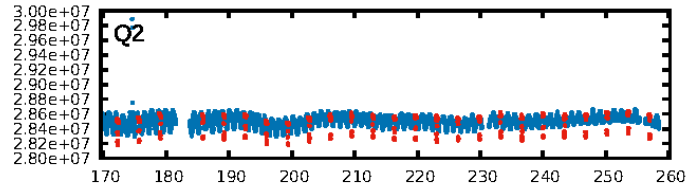
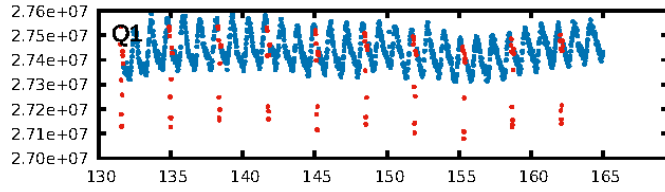
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.98 [368/374]
GhostDiagnostic-chr: 7.691
Centroid-sig: 0.0%
Centroid-so: 0.541 arcsec [31.99σ]
OotOffset-rm: 1.292 arcsec [8.61σ]
KicOffset-rm: 1.242 arcsec [15.15σ]
OotOffset-st: 4/2/4/3 [13]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

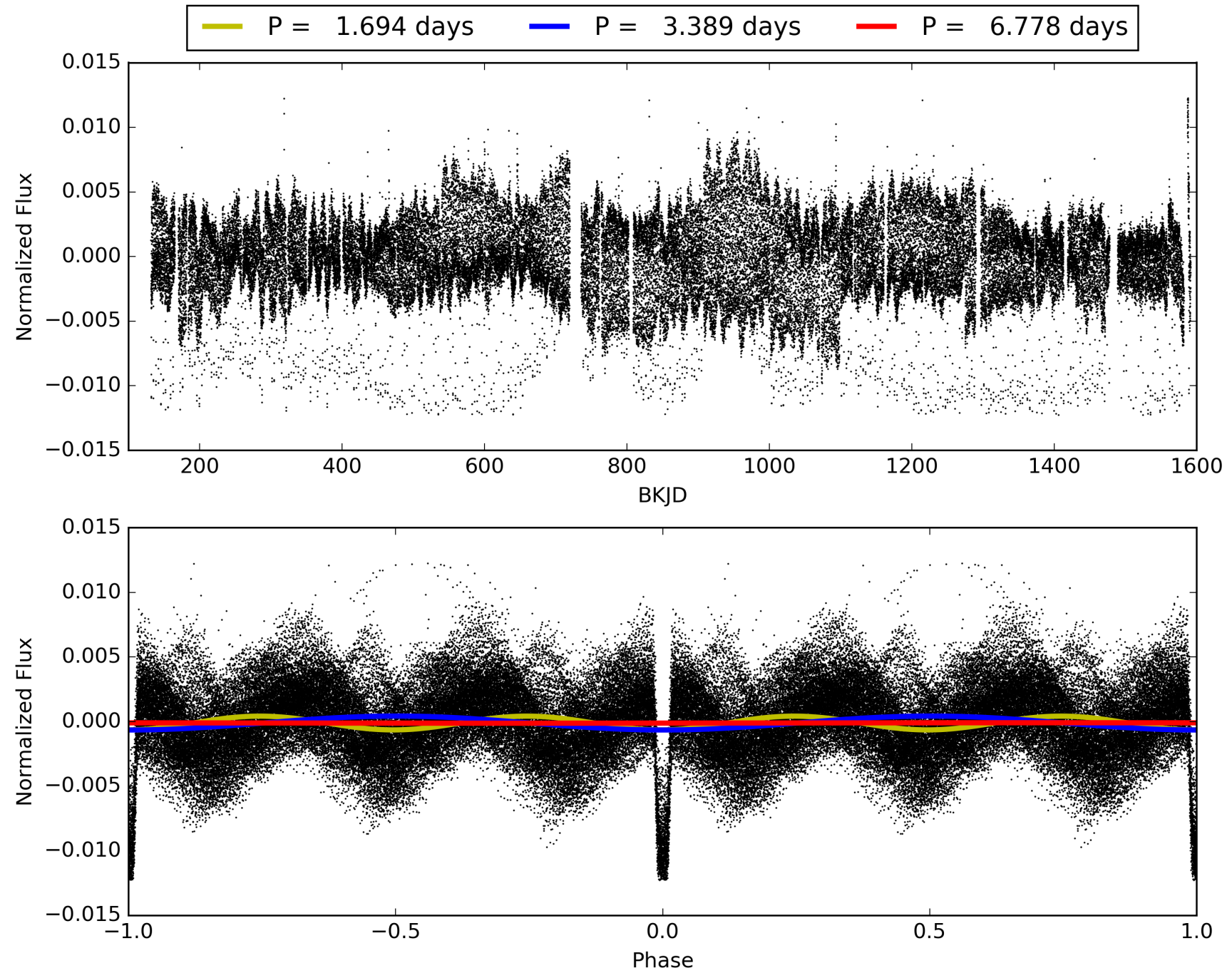
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 002445975-01, PDC Light Curves

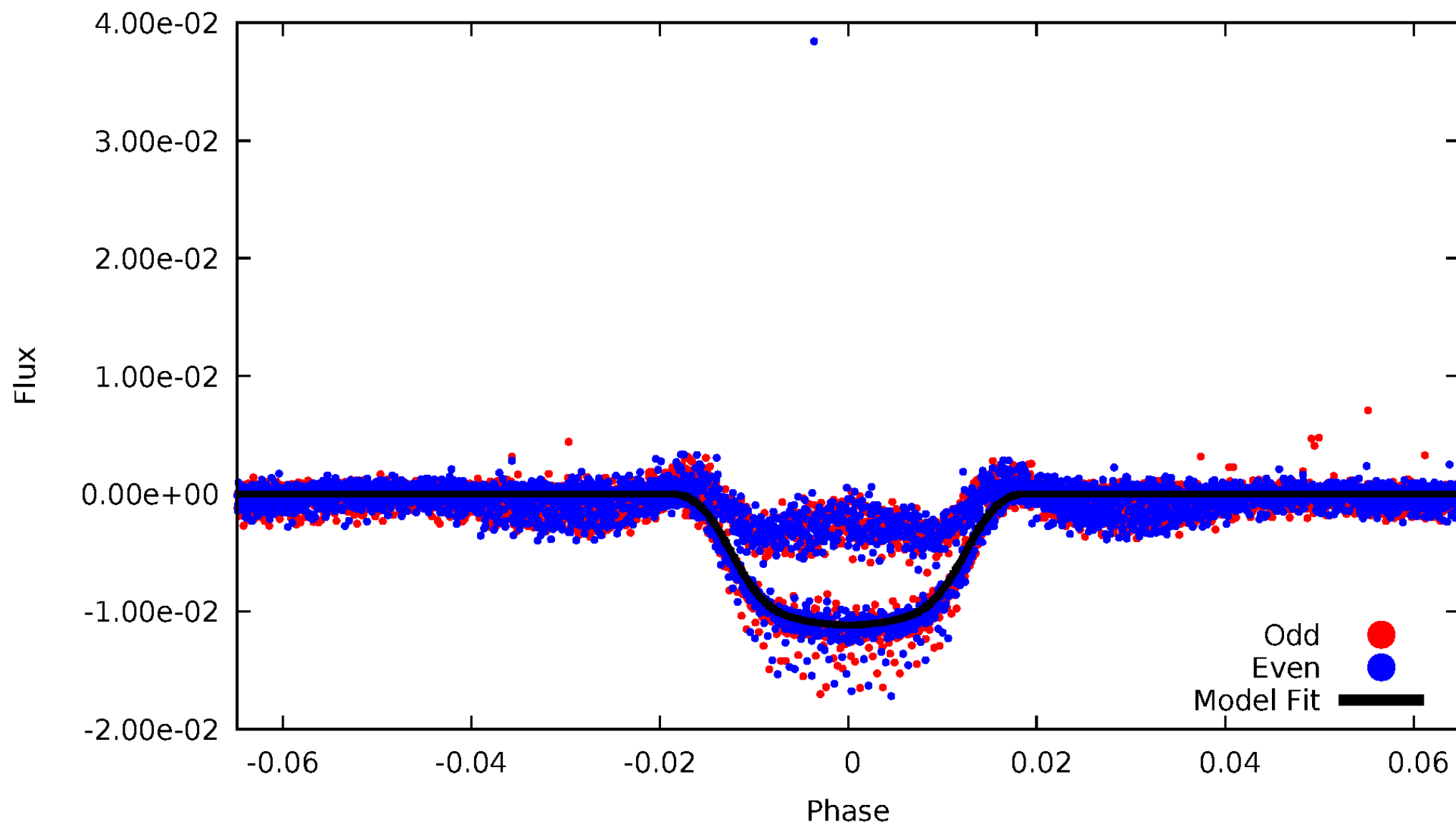


TCE 002445975-01



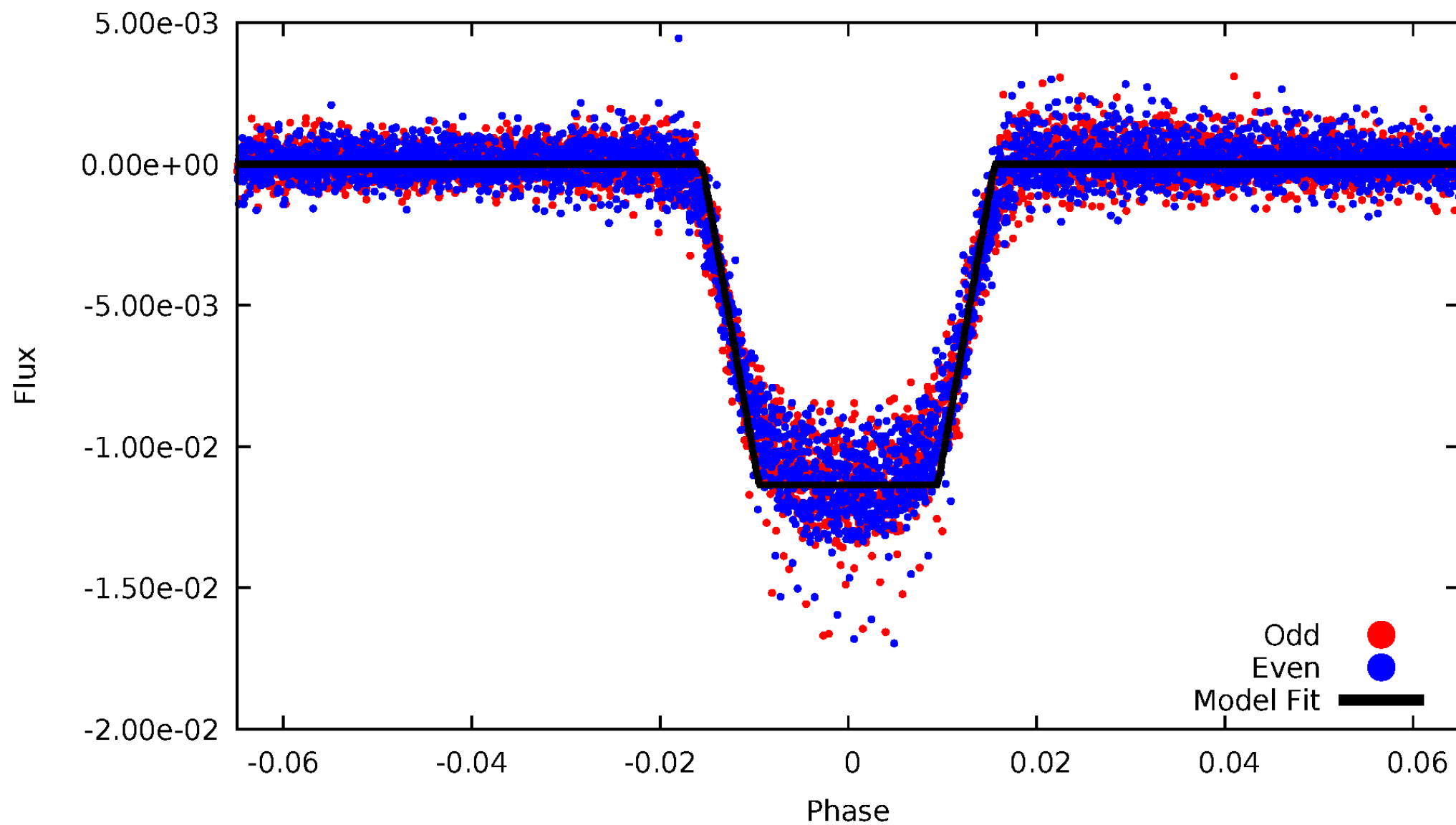
DV Odd/Even

TCE 002445975-01

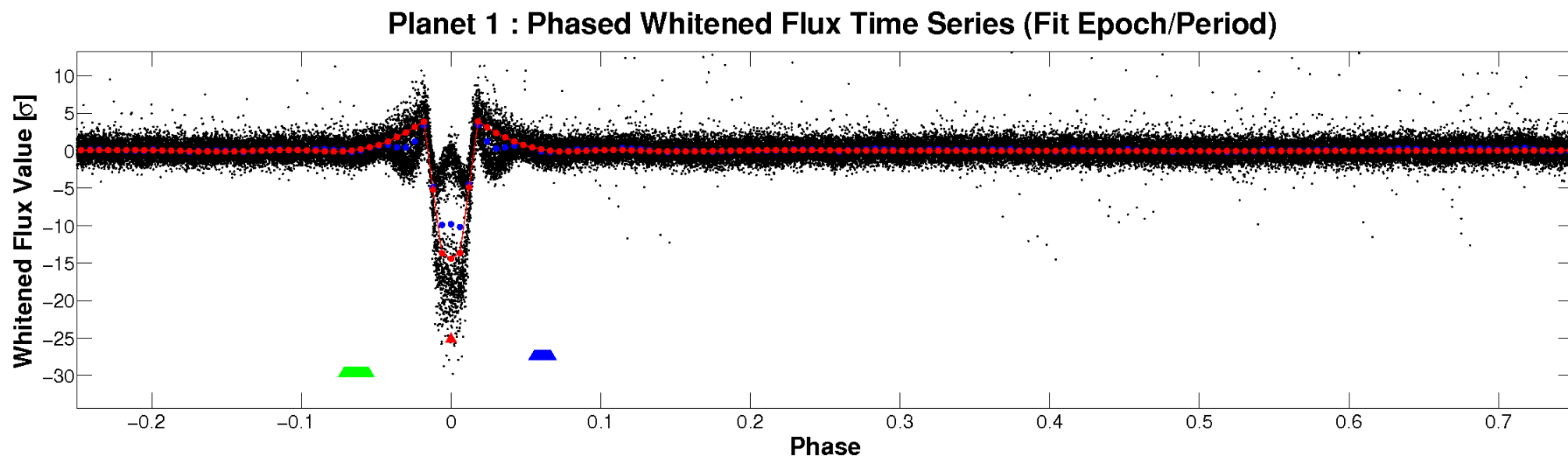
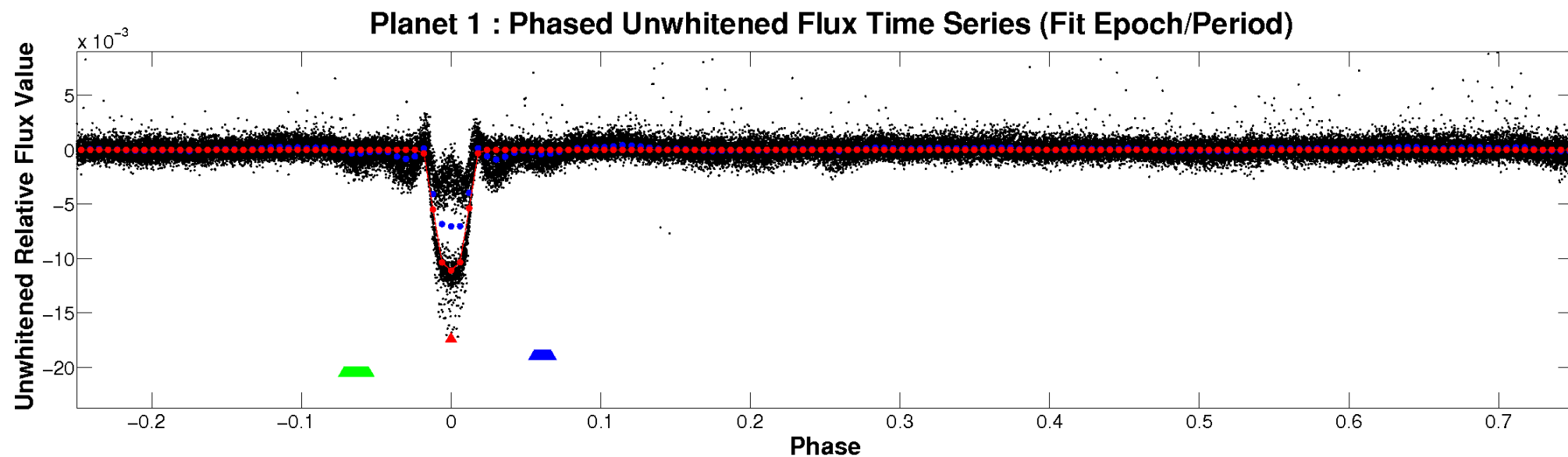


ALT Odd/Even

TCE 002445975-01

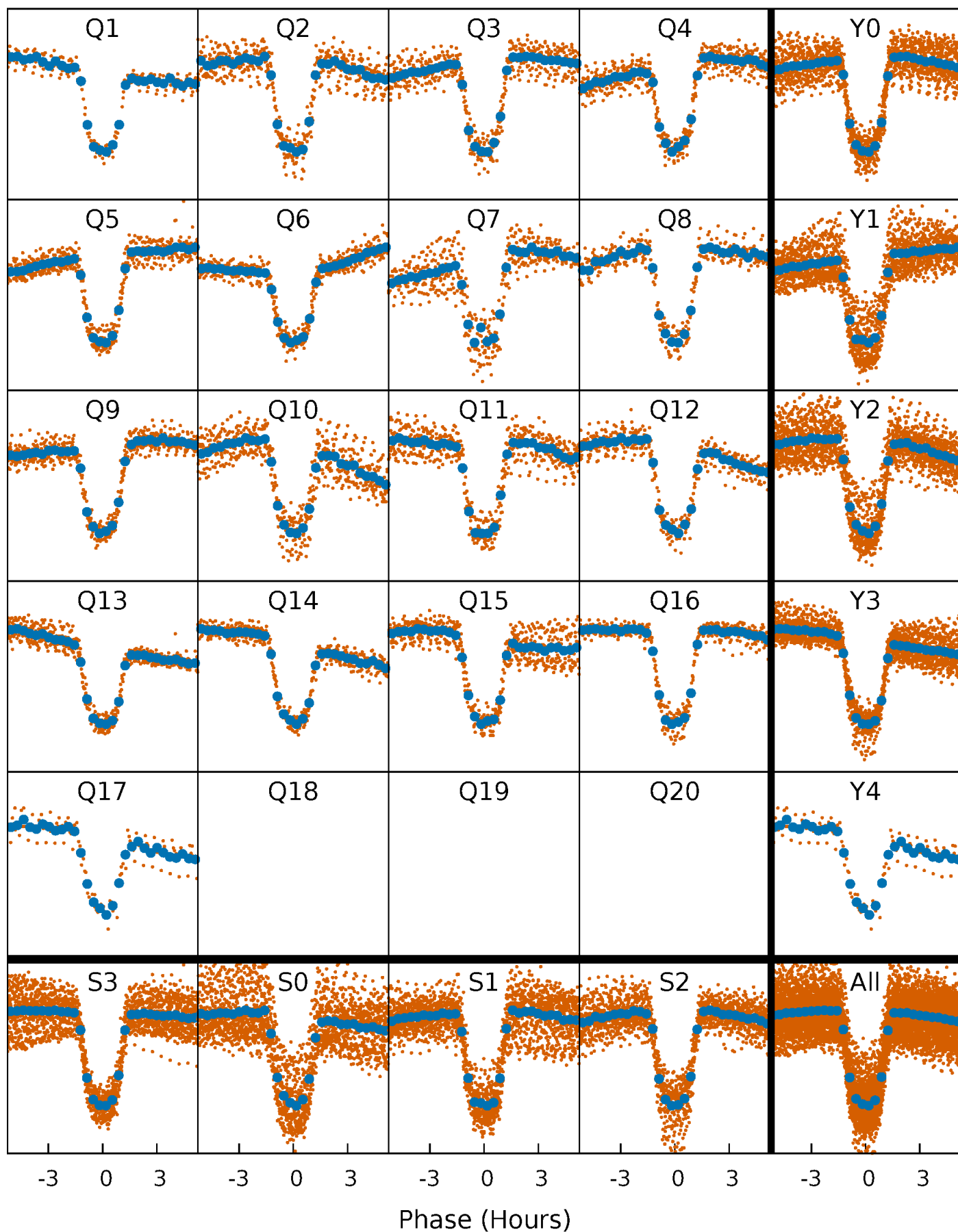


Non-Whitened Vs. Whitened Light Curve



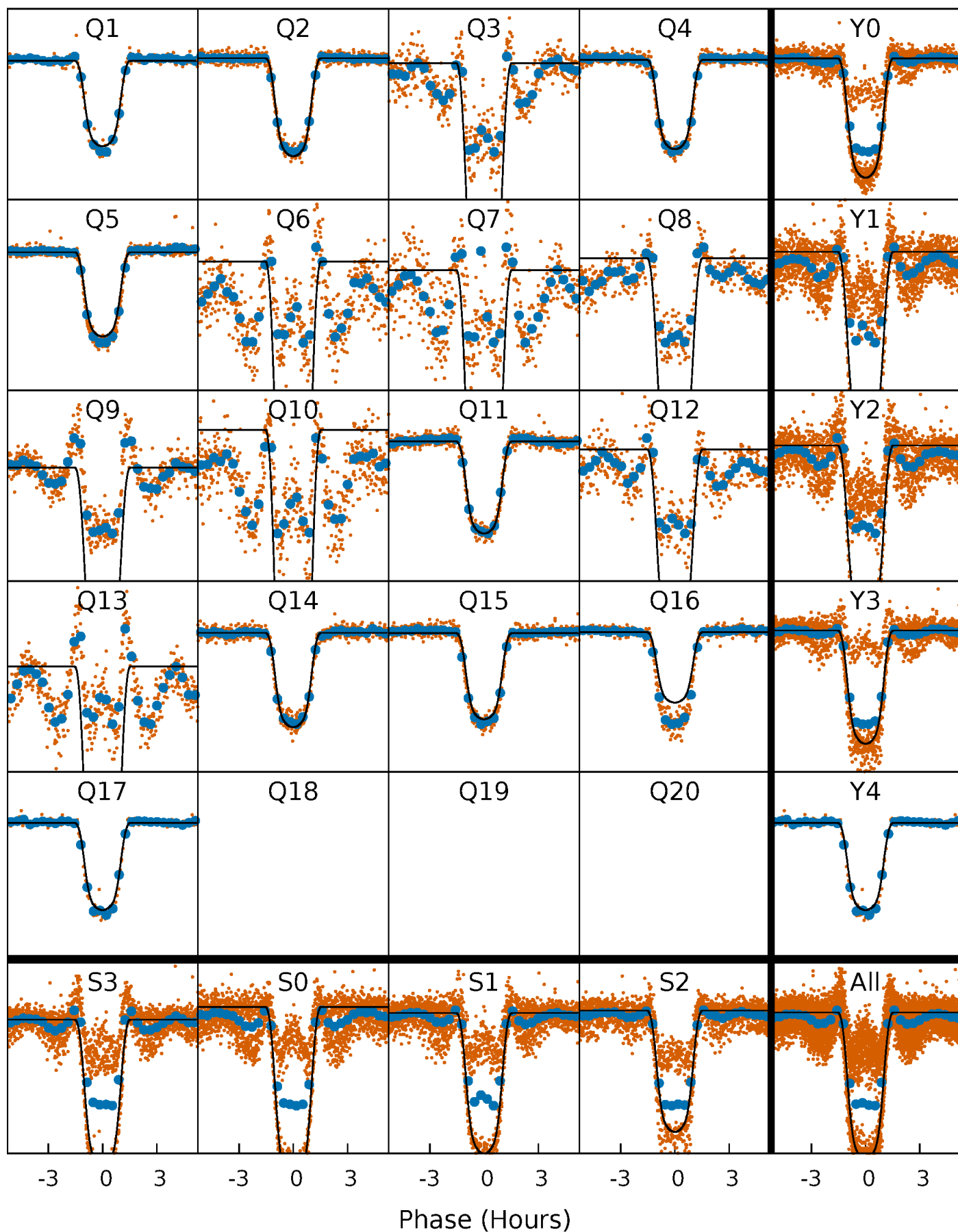
PDC Quarter-Phased Transit Curves

TCE 002445975-01 P= 3.388883 Days $T_0=131.593226$ (BKJD)



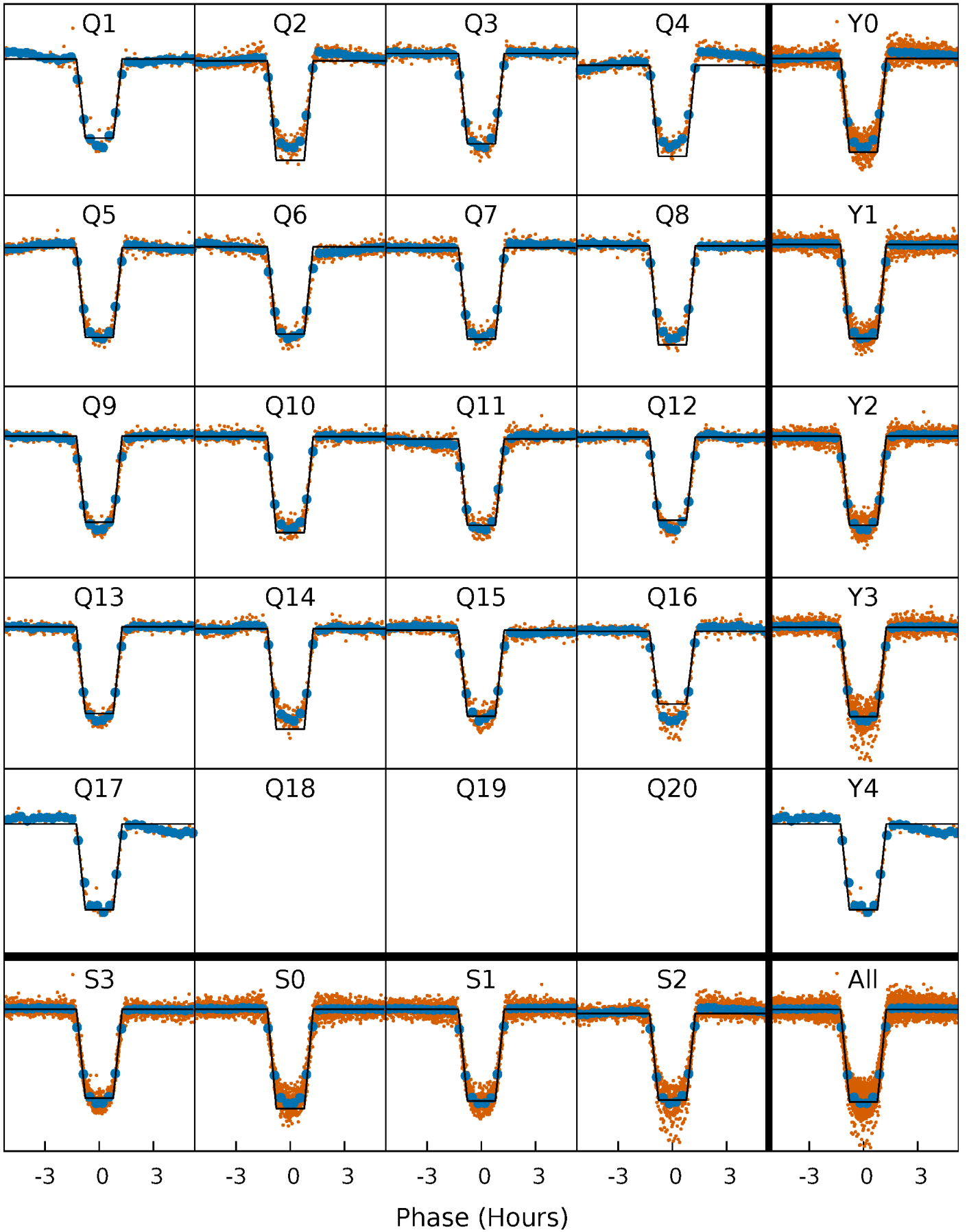
DV Quarter-Phased Transit Curves

TCE 002445975-01 P= 3.388883 Days $T_0=131.593226$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

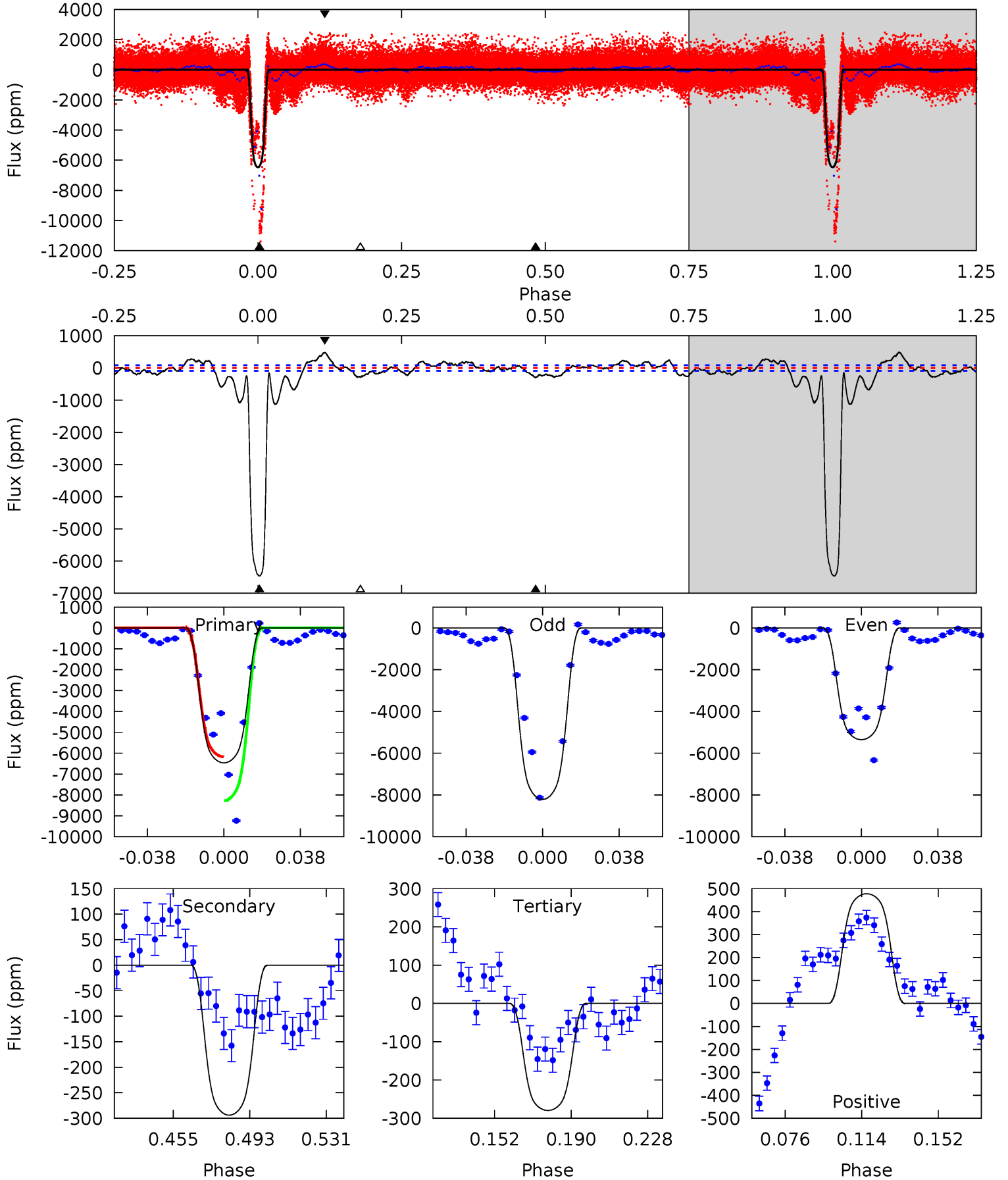
TCE 002445975-01 P= 3.388878 Days $T_0=131.594143$ (BKJD)



DV Model-Shift Uniqueness Test

002445975-01, P = 3.388883 Days, E = 128.204343 Days

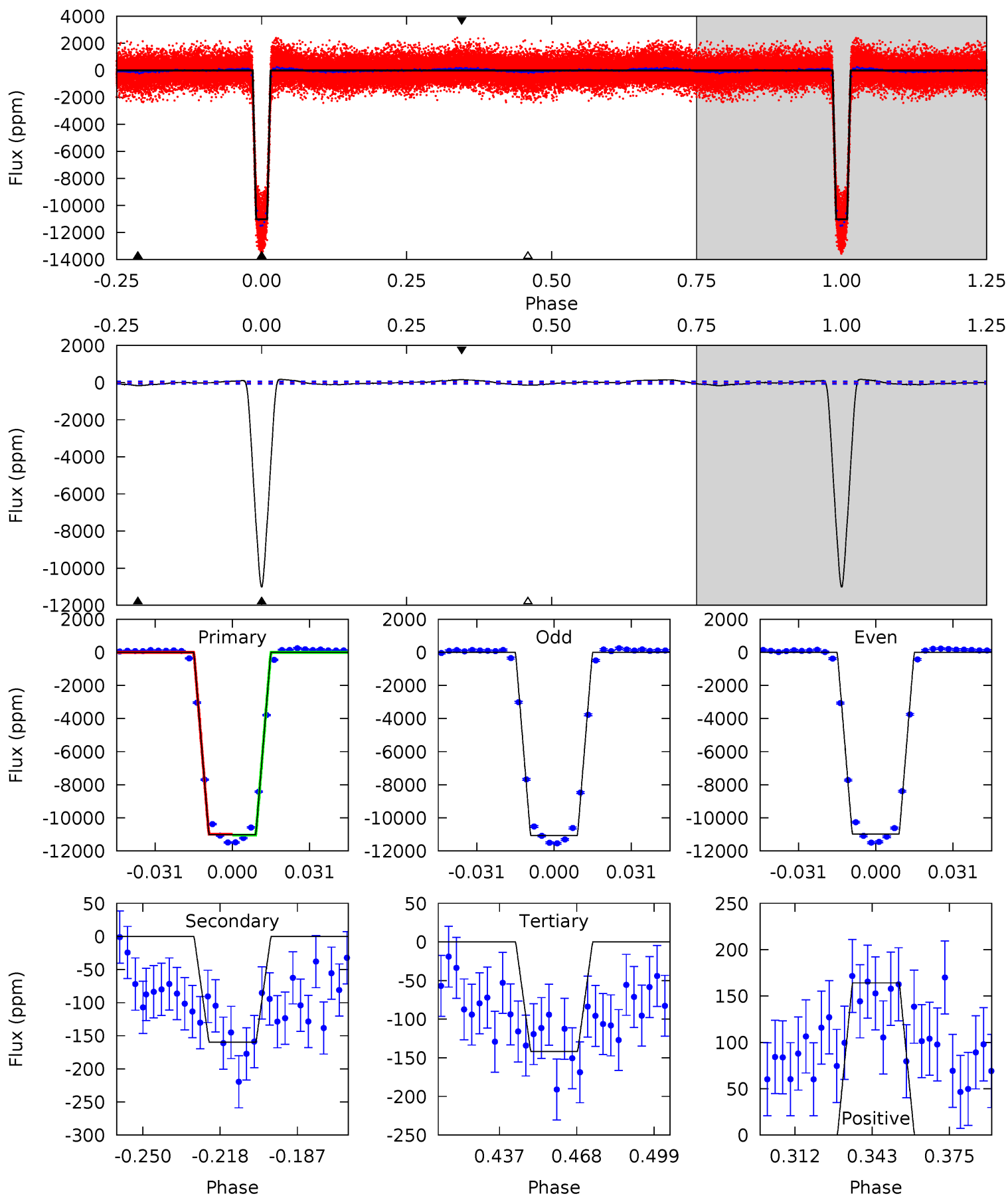
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
348.5	15.8	15.1	25.8	4.76	2.08	10.7	333.5	322.8	0.77	-9.90	77.6	1.28	0.07	0



Alt Model-Shift Uniqueness Test

002445975-01, P = 3.38878 Days, E = 128.205265 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
824.4	12.0	10.6	12.3	4.80	2.15	5.95	813.8	812.1	1.35	-0.32	3.00	0.99	0.02	1.69



Stellar Parameters For KIC 002445975

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5780^{+1}_{-1}	$4.438^{+1.000}_{-1.000}$	$0.000^{+1.000}_{-1.000}$	$1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$
	+0%/-0%	+23%/-23%	+inf%/-inf%	+100%/-100%	+100%/-100%	+100%/-100%
Source	Solar	Solar	Solar	Solar		

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

Secondary Eclipse Parameters for KIC 002445975-01 / KOI 0053.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-294 ± 19	$11.62^{+0.83}_{-0.82}$	1693^{+76}_{-74}	2936^{+64}_{-66}	$2.346^{+0.355}_{-0.298}$
Alt.	-160 ± 13	$11.67^{+0.80}_{-0.78}$	1699^{+77}_{-76}	2655^{+67}_{-65}	$1.260^{+0.205}_{-0.180}$

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 $A_{obs} \gg 1.0$

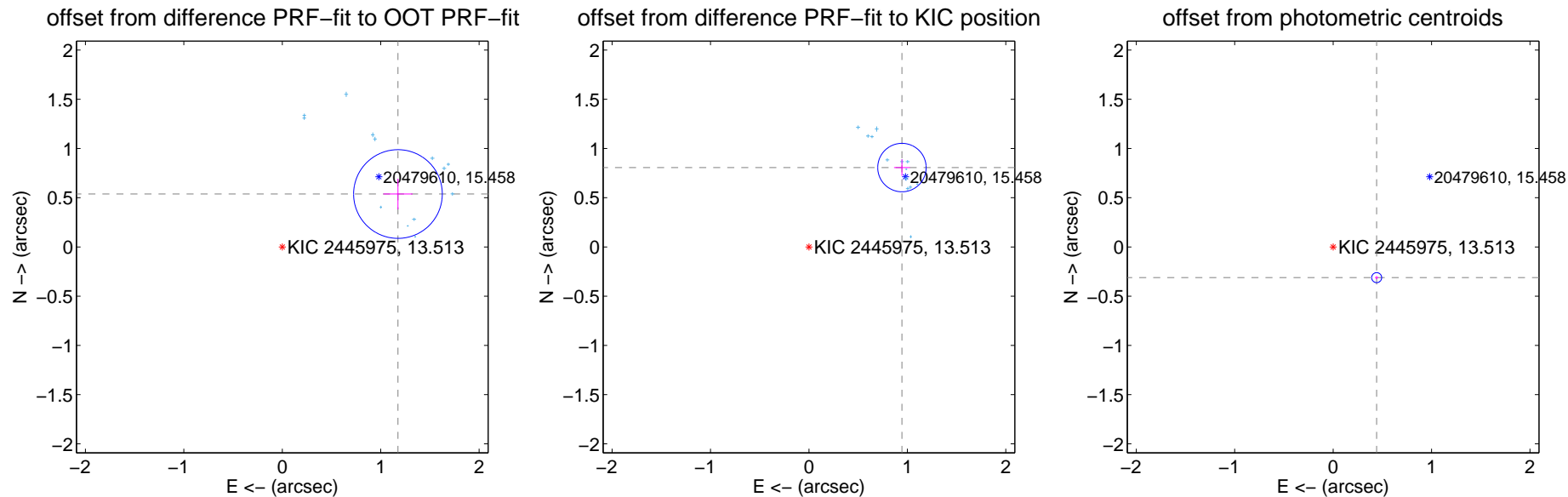
DV Centroid Data

Supplemental centroid analysis for 002445975-01. Kepler magnitude: 13.51. Transit SNR 437.17

There are 17 quarters with good PRF difference image offsets

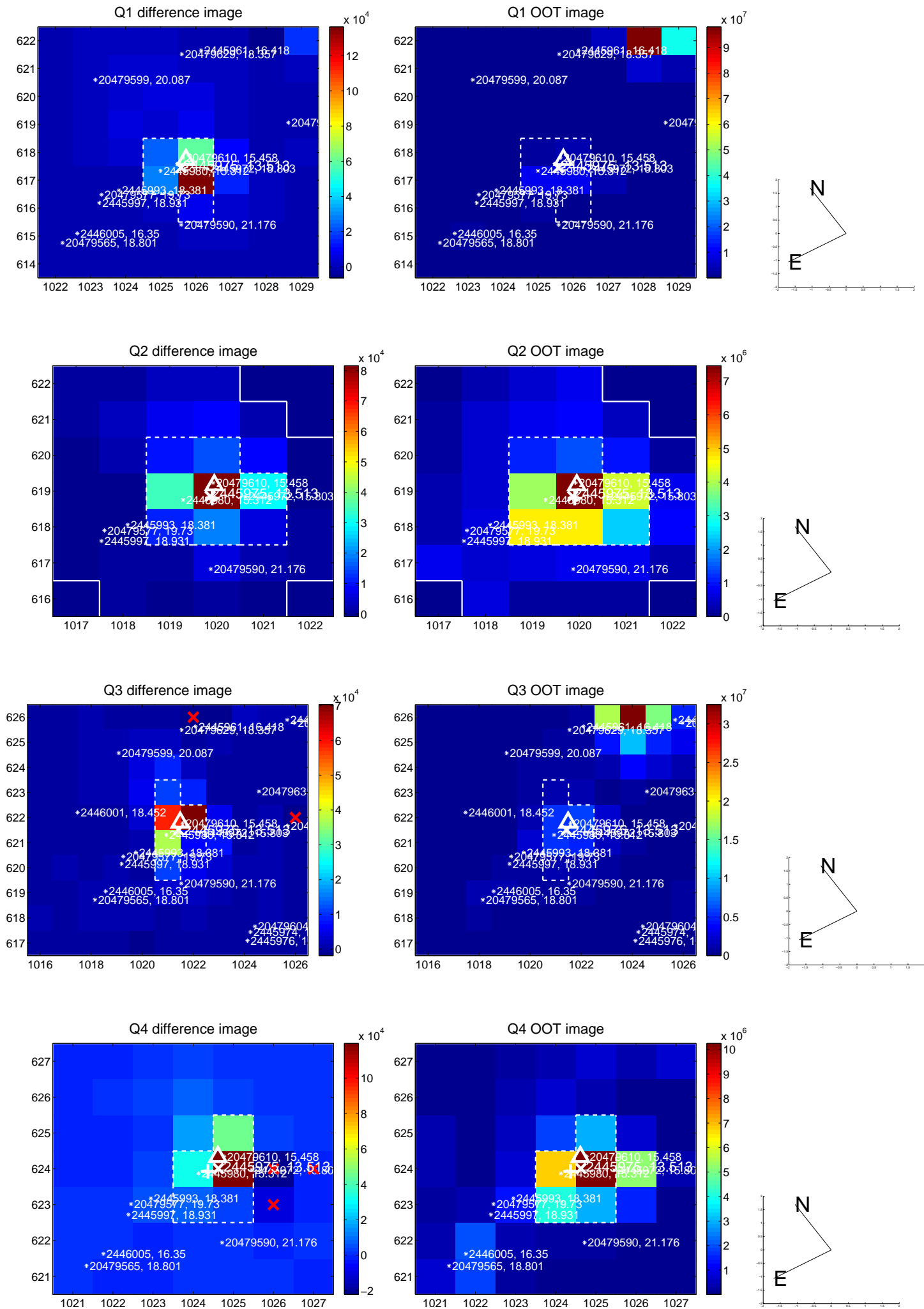
The direct PRF centroid is offset from the target star catalog position by about 0.68 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.292 ± 0.150	8.61	-1.175 ± 0.149	0.538 ± 0.156
PRF-fit source offset from KIC position	1.242 ± 0.082	15.15	-0.945 ± 0.081	0.806 ± 0.084
photometric centroid source offset	0.54 ± 0.02	31.99	-0.44 ± 0.02	-0.31 ± 0.02

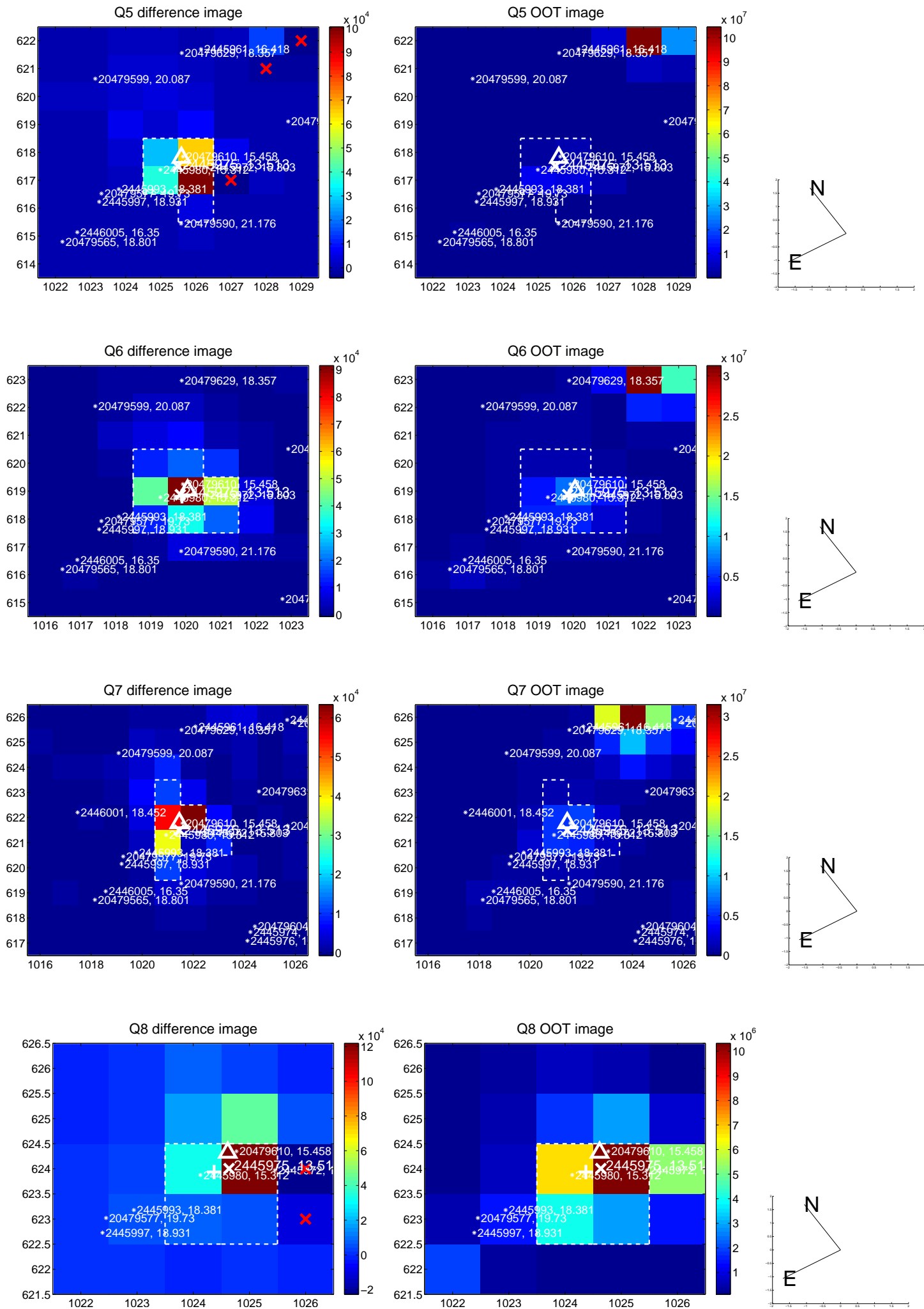


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

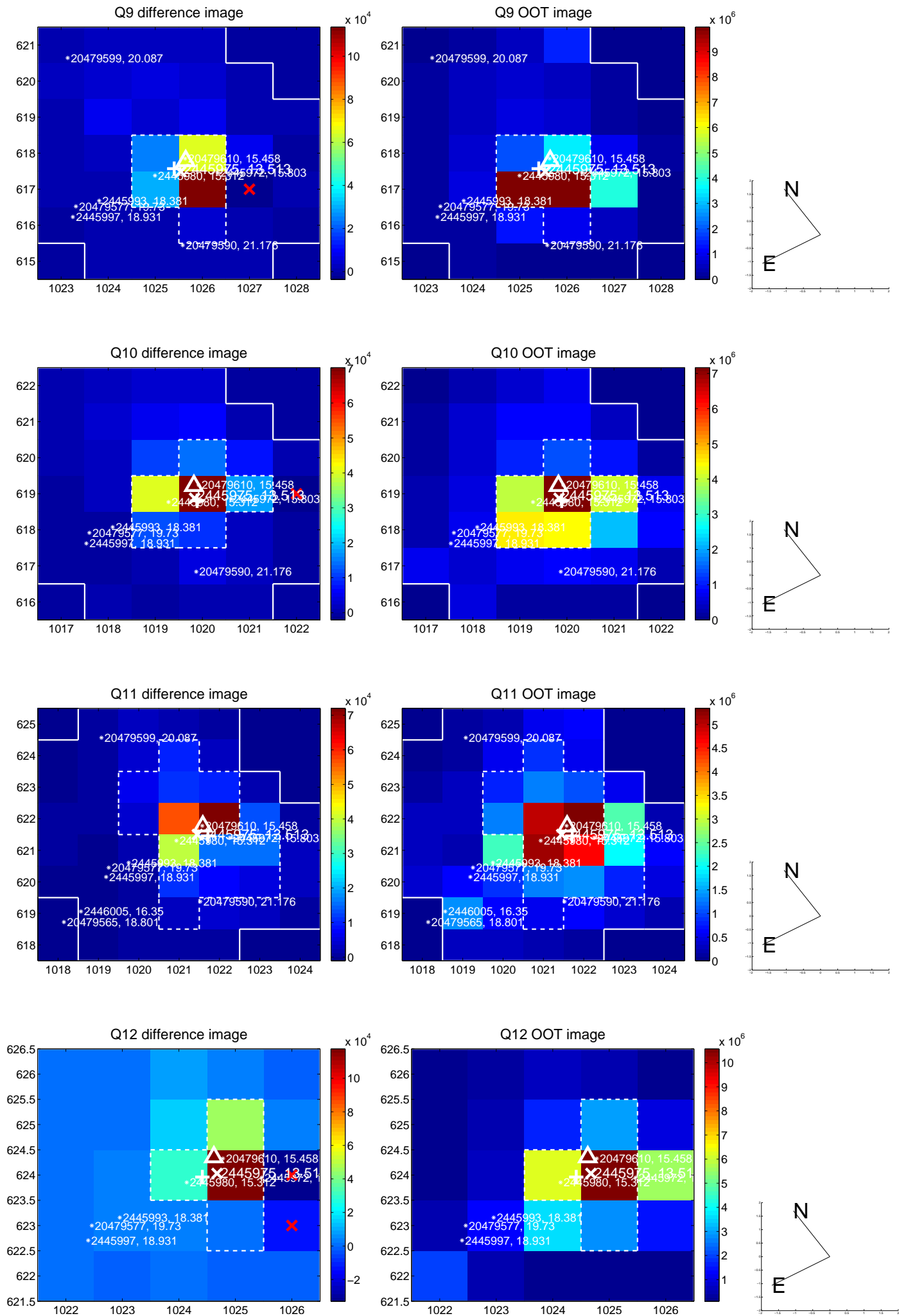
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



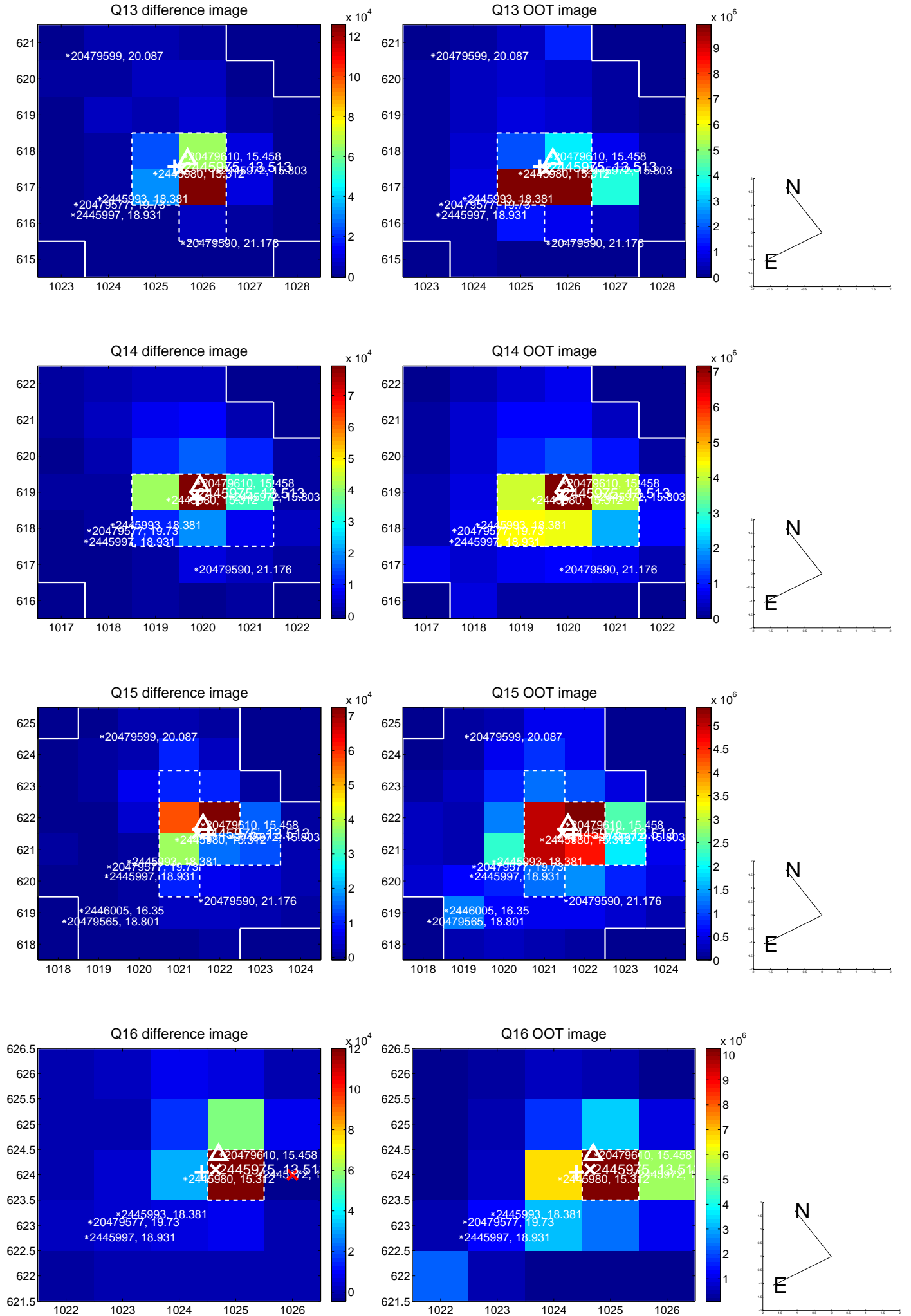
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



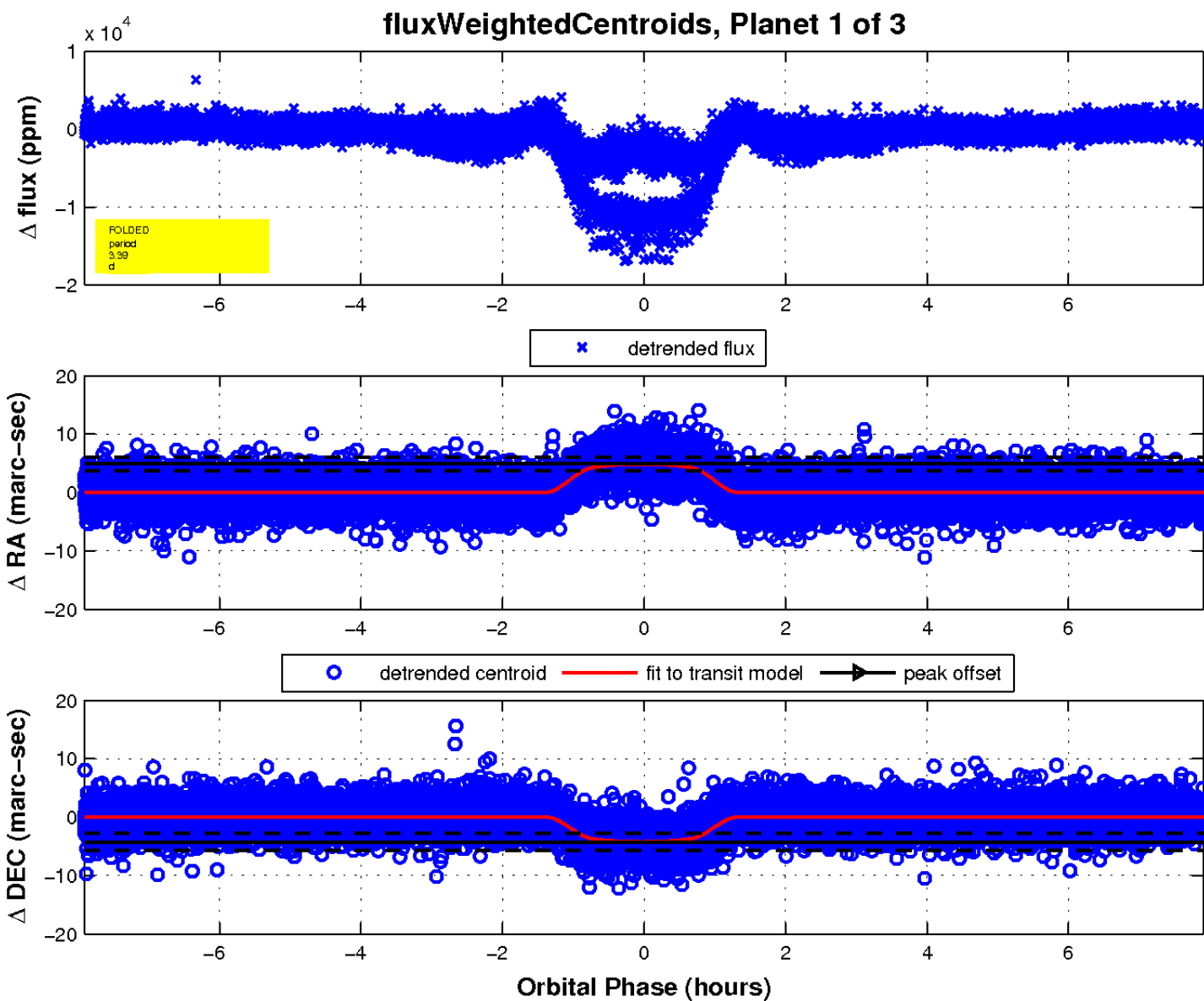
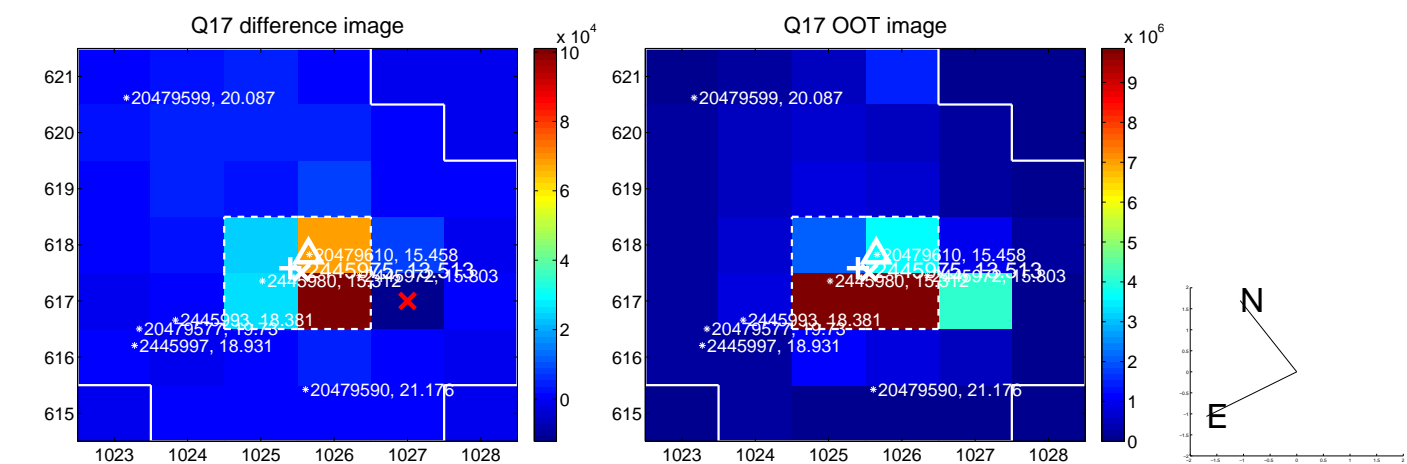
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

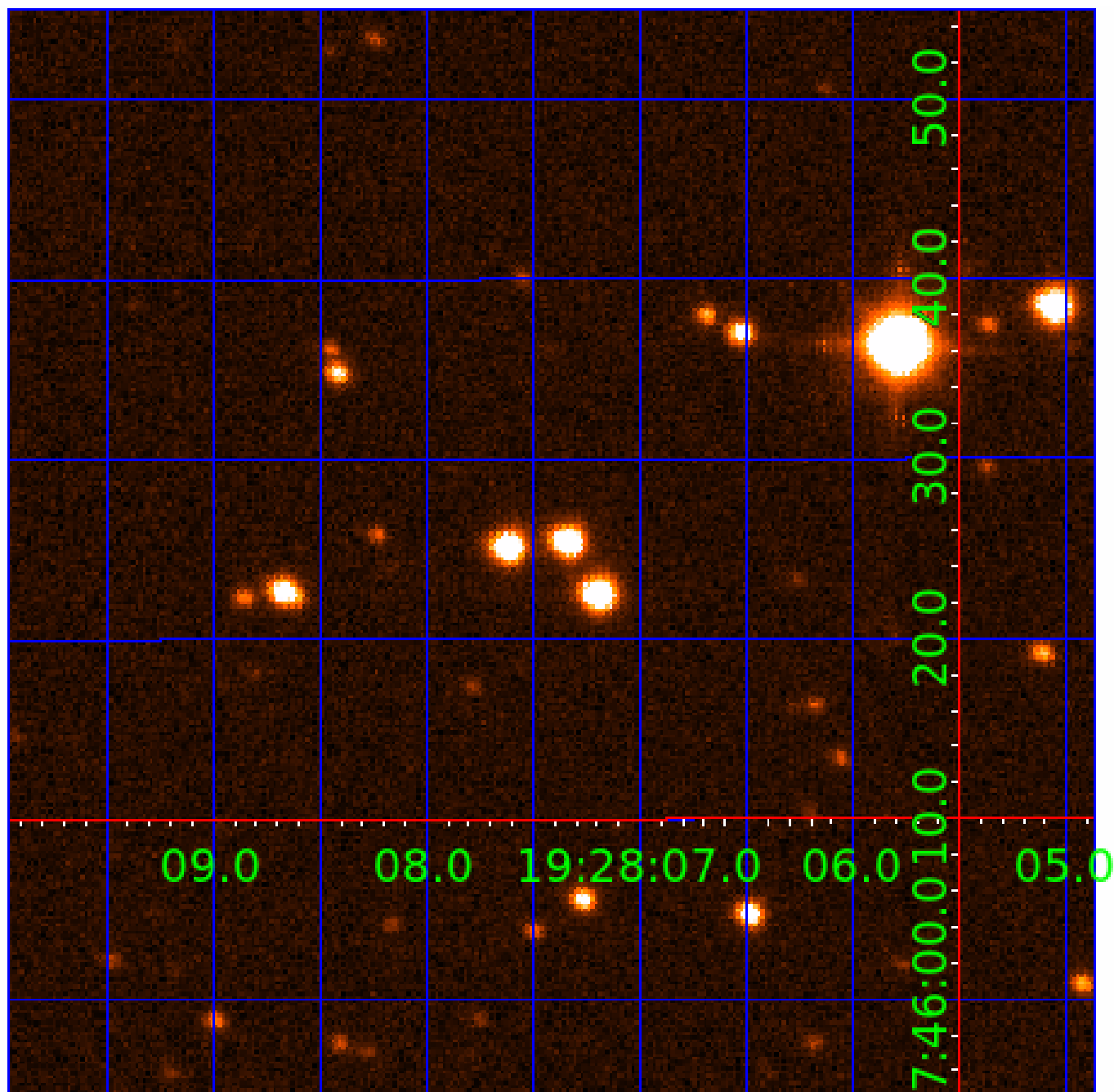


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 002445975

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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Robovetter Results

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002445975-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—RESIDUAL_TCE—CENT_NOFITS
002445975-03	OBS	FP	0.00	1	0	0	0	LPP_DV—RESIDUAL_TCE—CENT_FEW_DIFFS

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 002445975-02

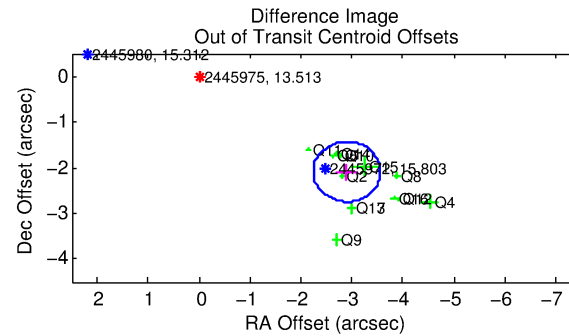
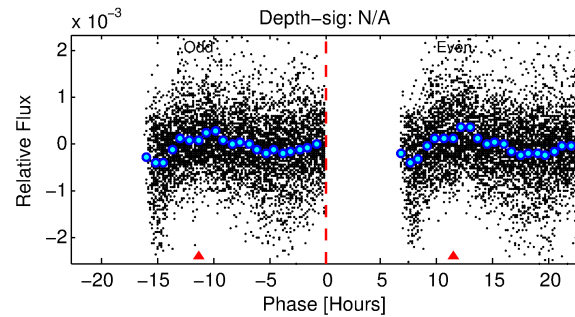
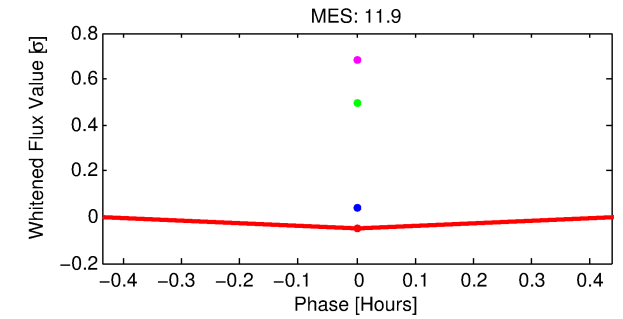
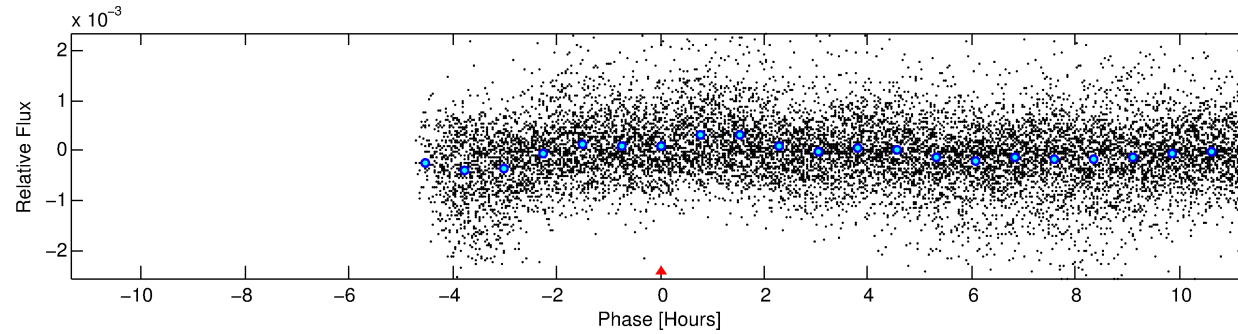
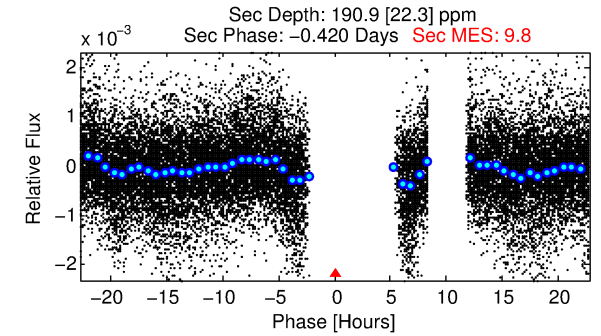
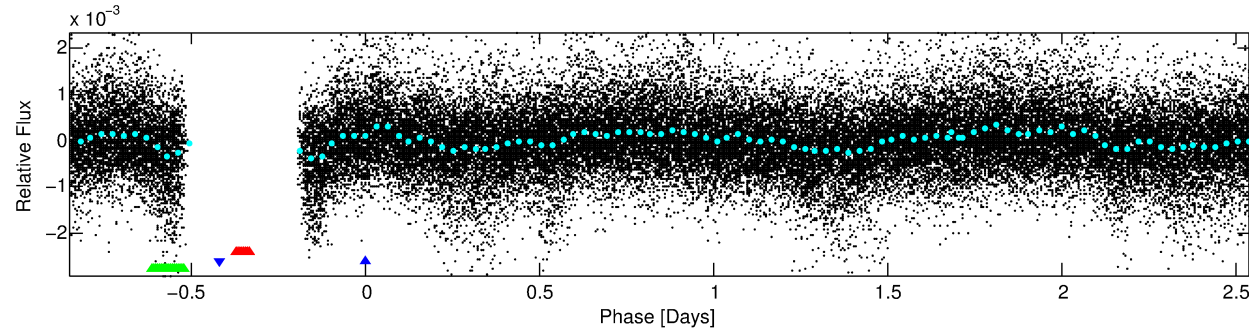
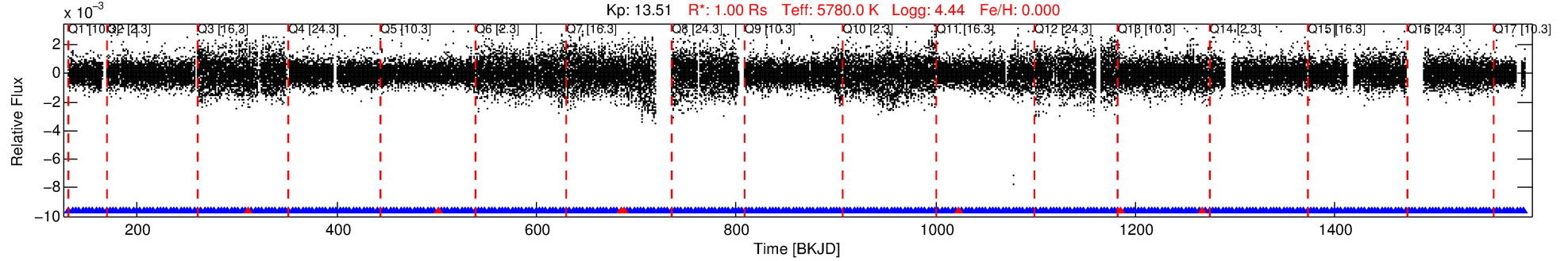
No Significant Match Found

DV One-Page Summary

KIC: 2445975 Candidate: 2 of 3 Period: 3.389 d

KOI: K00053 Corr: No Ephemeris Match

Kp: 13.51 R*: 1.00 Rs Teff: 5780.0 K Logg: 4.44 Fe/H: 0.000



TPS TCE Results:

Period = 3.38897 d
Epoch = 131.7818 BKJD

DV fit results are unavailable

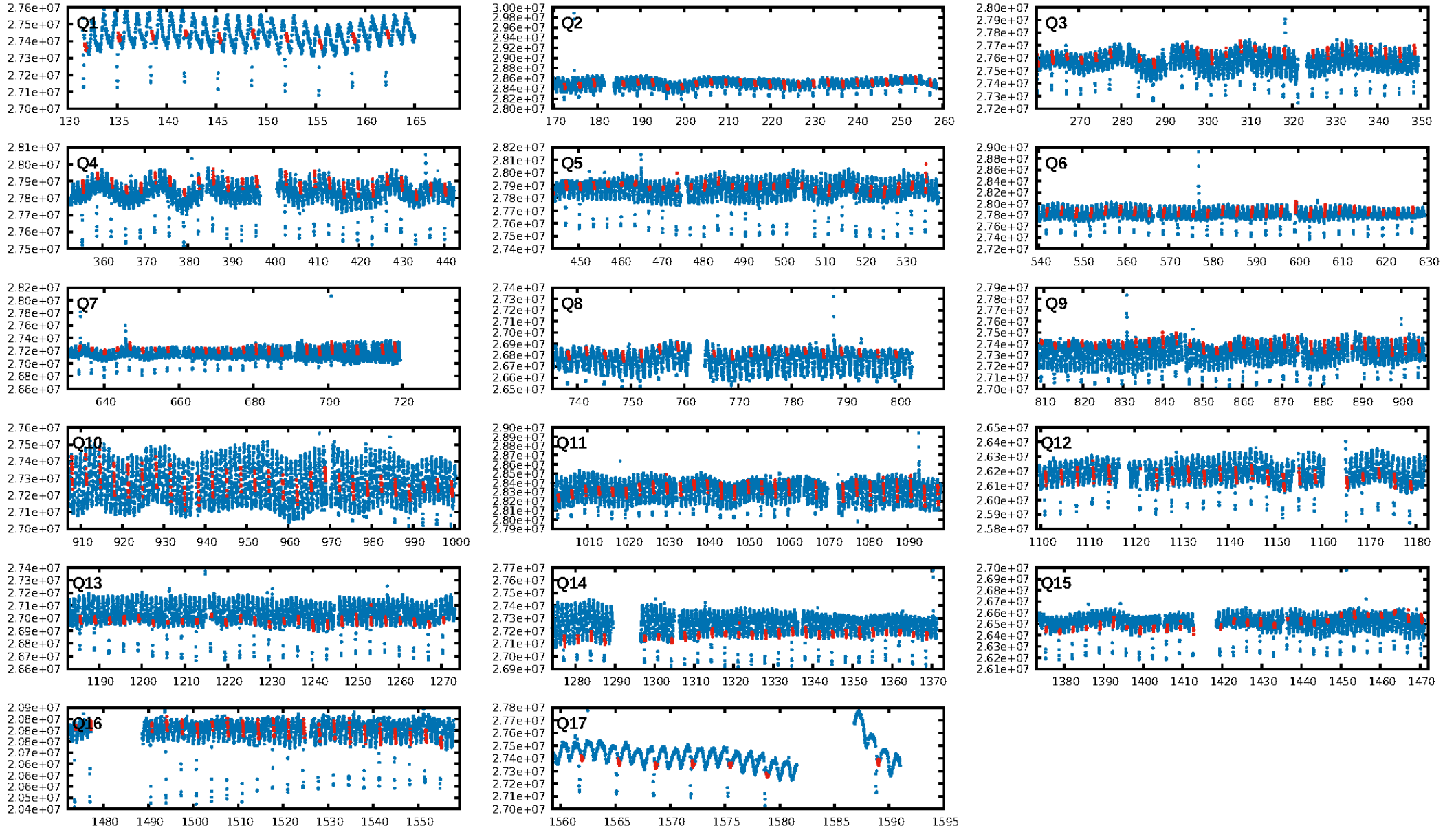
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.24e-31
RollingBand-fgt: 0.98 [368/375]
GhostDiagnostic-chr: 1.724
Centroid-sig: 35.2%
Centroid-so: 0.146 arcsec [0.15σ]
OotOffset-rm: 3.573 arcsec [16.30σ]
KicOffset-rm: 3.581 arcsec [2.50σ]
OotOffset-st: 4/2/4/3 [13]
KicOffset-st: 4/3/4/4 [15]
DiffImageQuality-fgm: 0.67 [10/15]
DiffImageOverlap-fno: 0.00 [0/17]

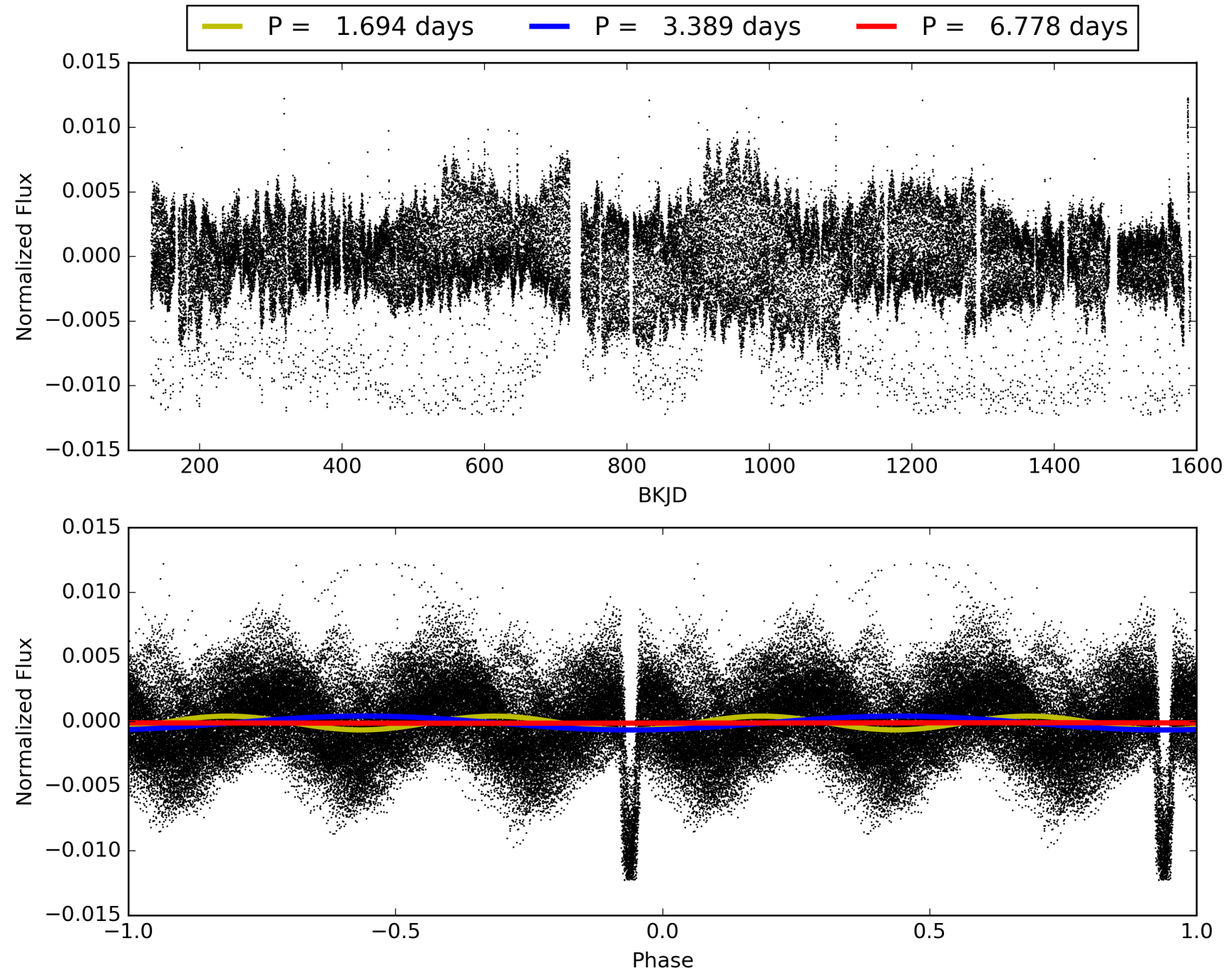
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 19:00:43 Z

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

TCE 002445975-02, PDC Light Curves

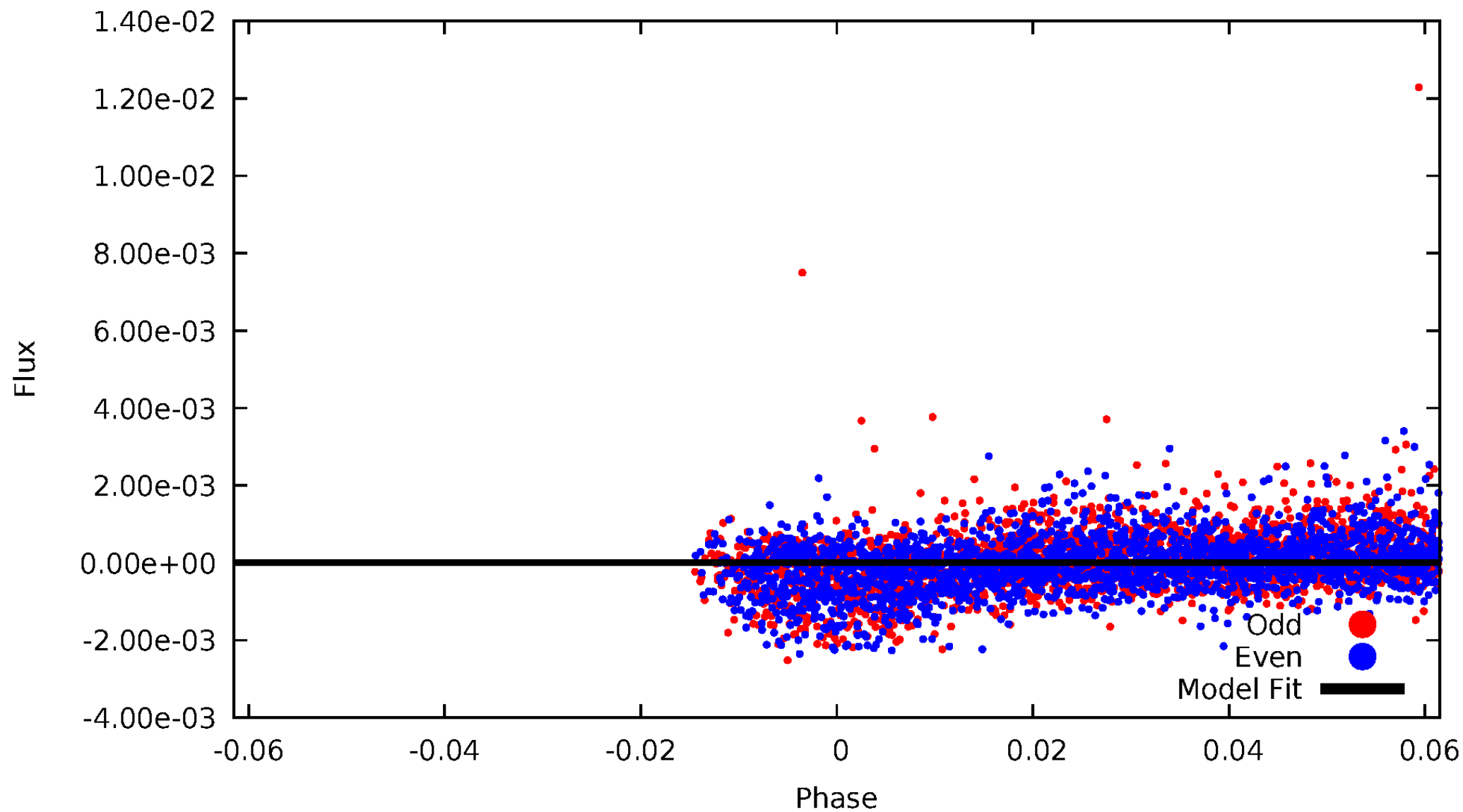


TCE 002445975-02



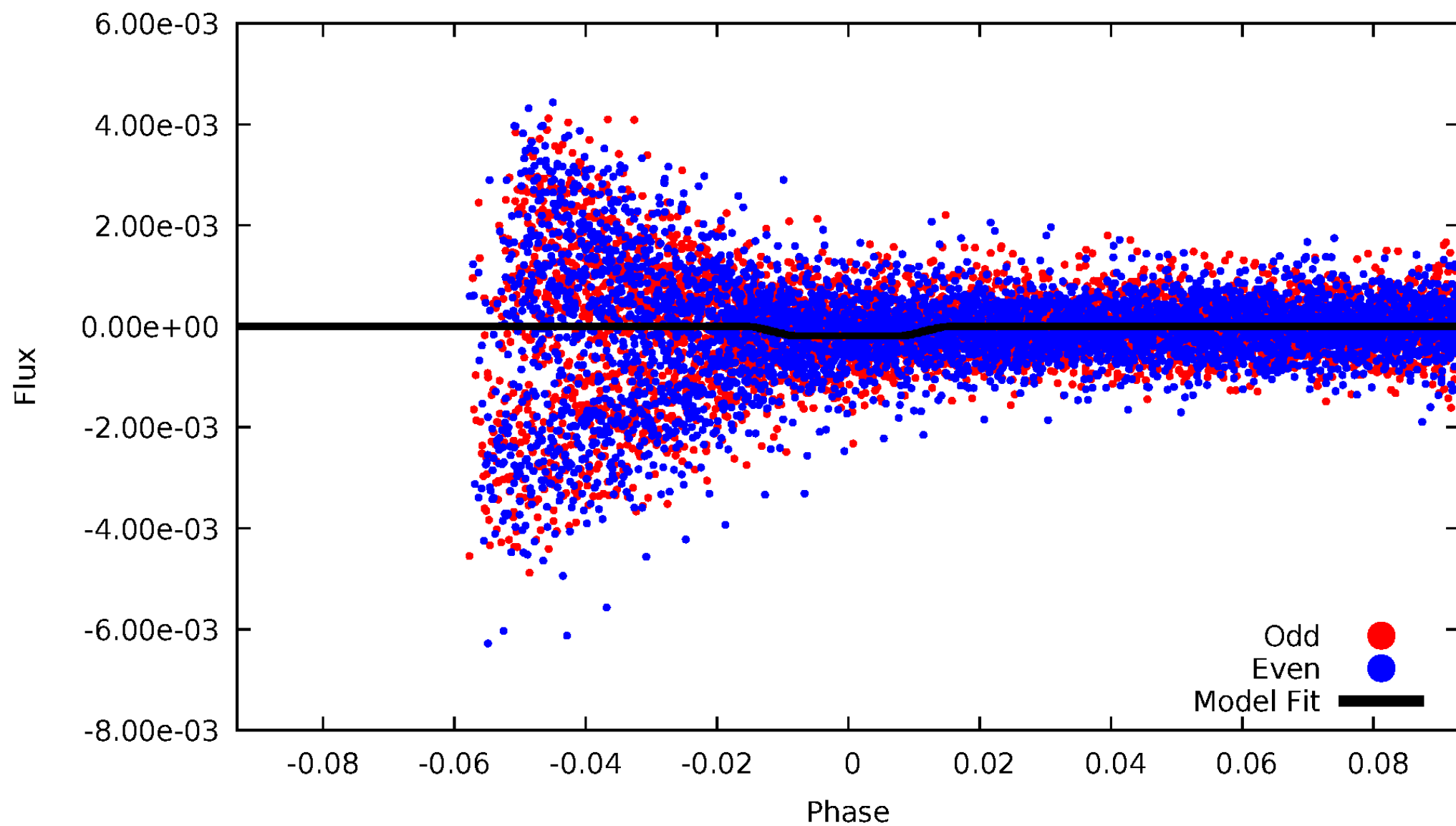
DV Odd/Even

TCE 002445975-02



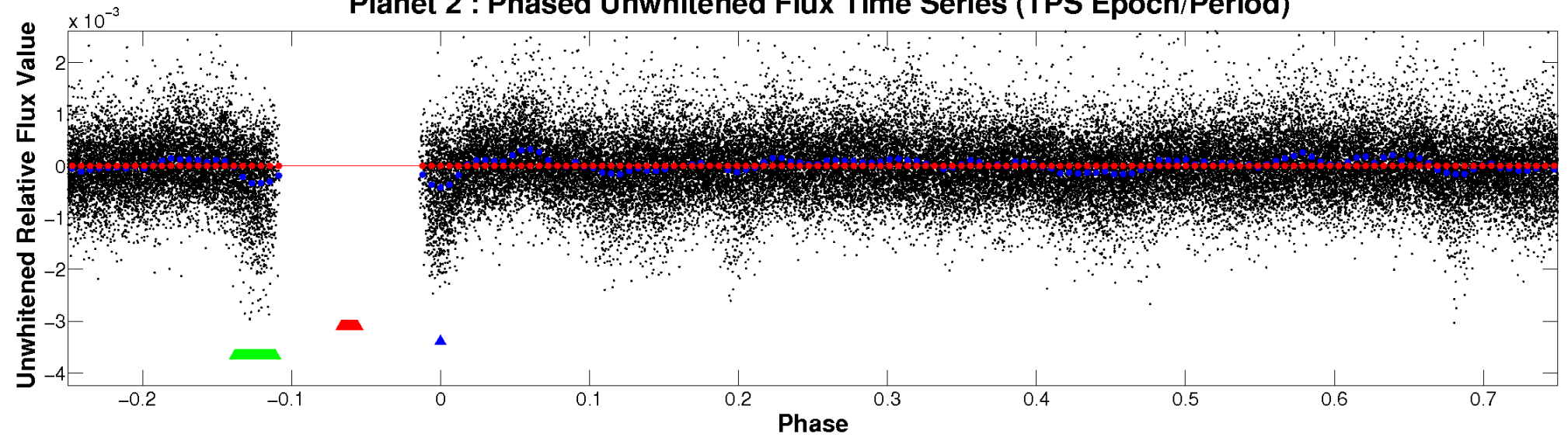
ALT Odd/Even

TCE 002445975-02

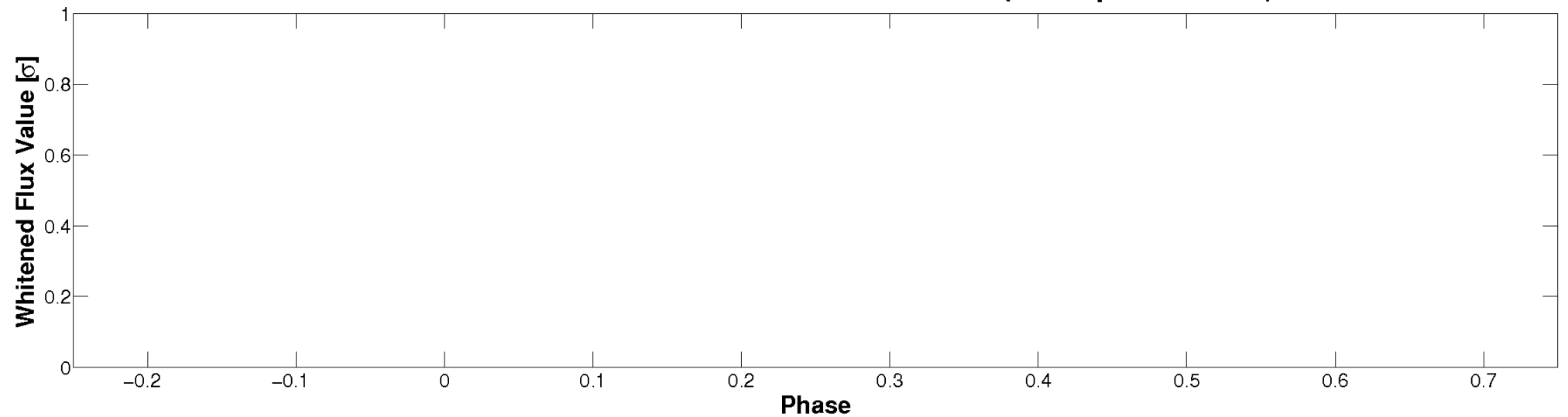


Non-Whitened Vs. Whitened Light Curve

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

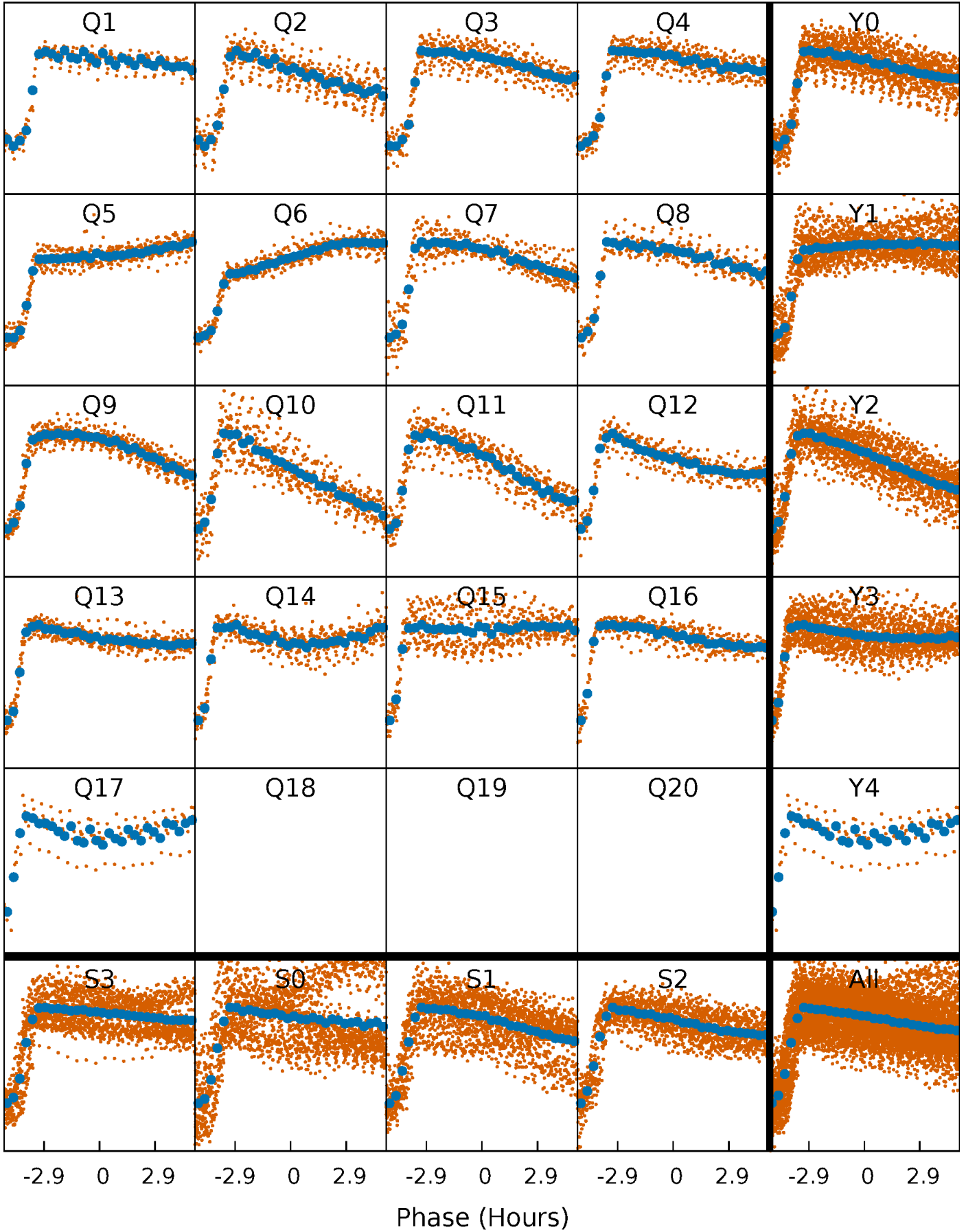


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



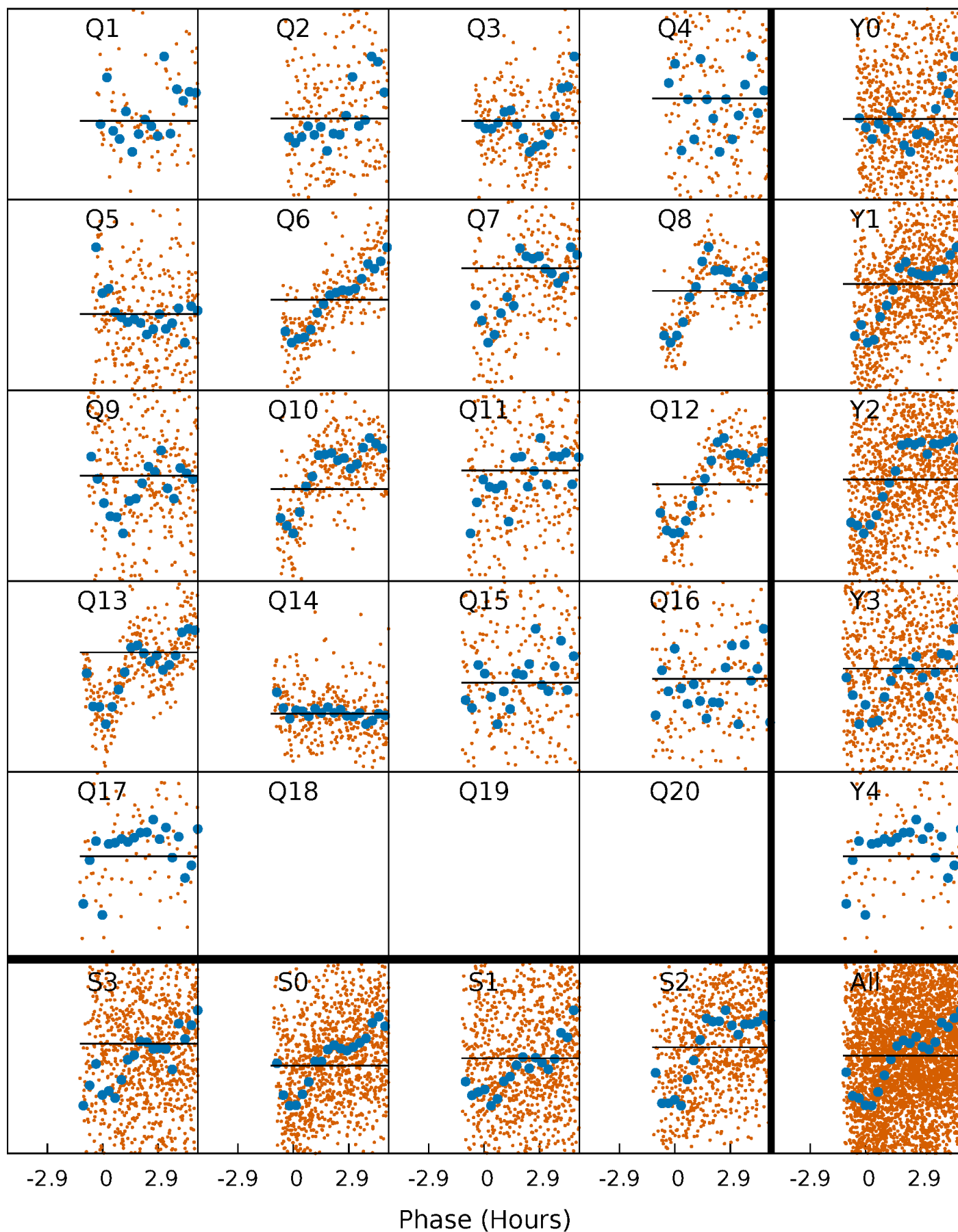
PDC Quarter-Phased Transit Curves

TCE 002445975-02 P= 3.388968 Days $T_0=131.781827$ (BKJD)



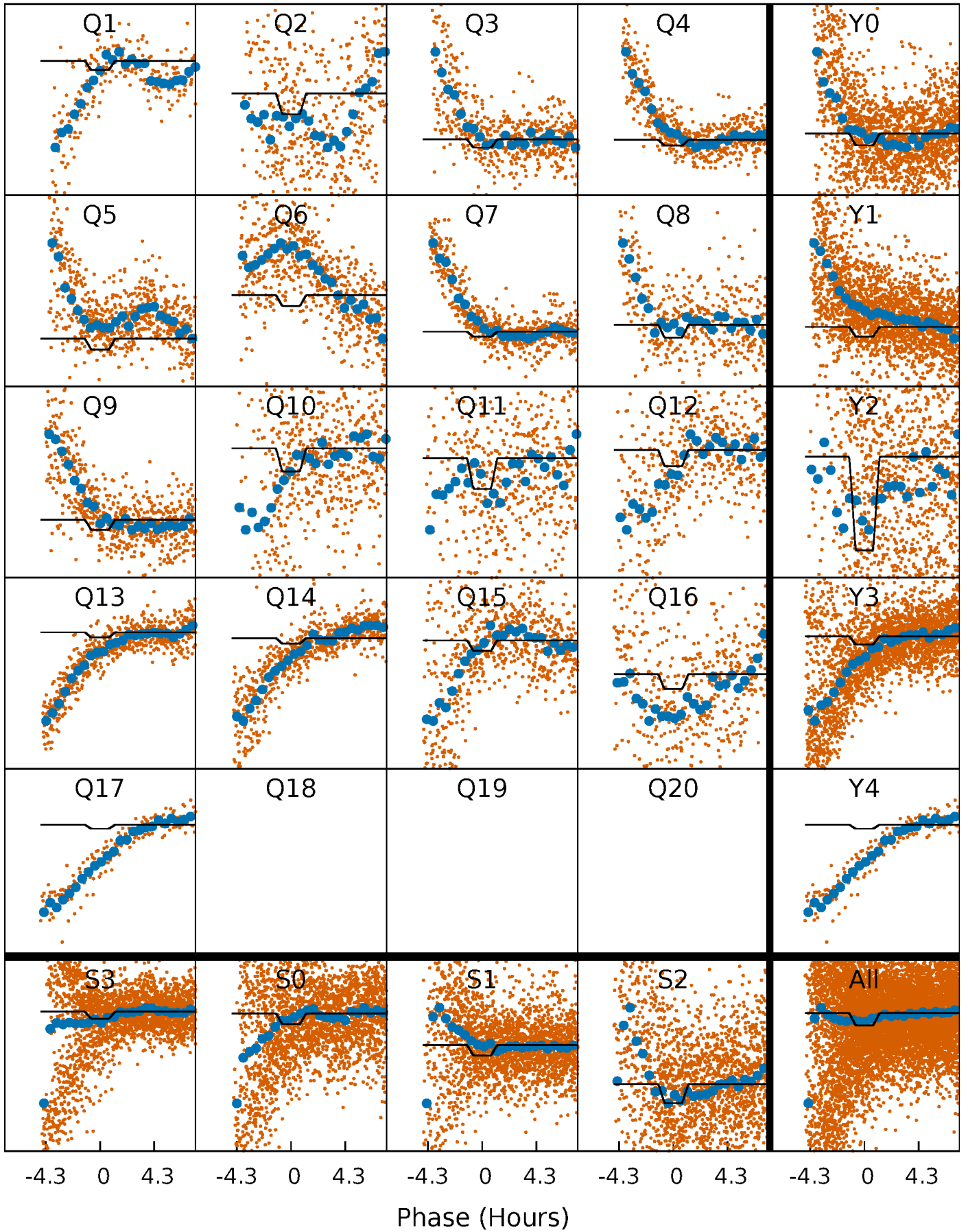
DV Quarter-Phased Transit Curves

TCE 002445975-02 $P = 3.388968$ Days $T_0 = 131.781827$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

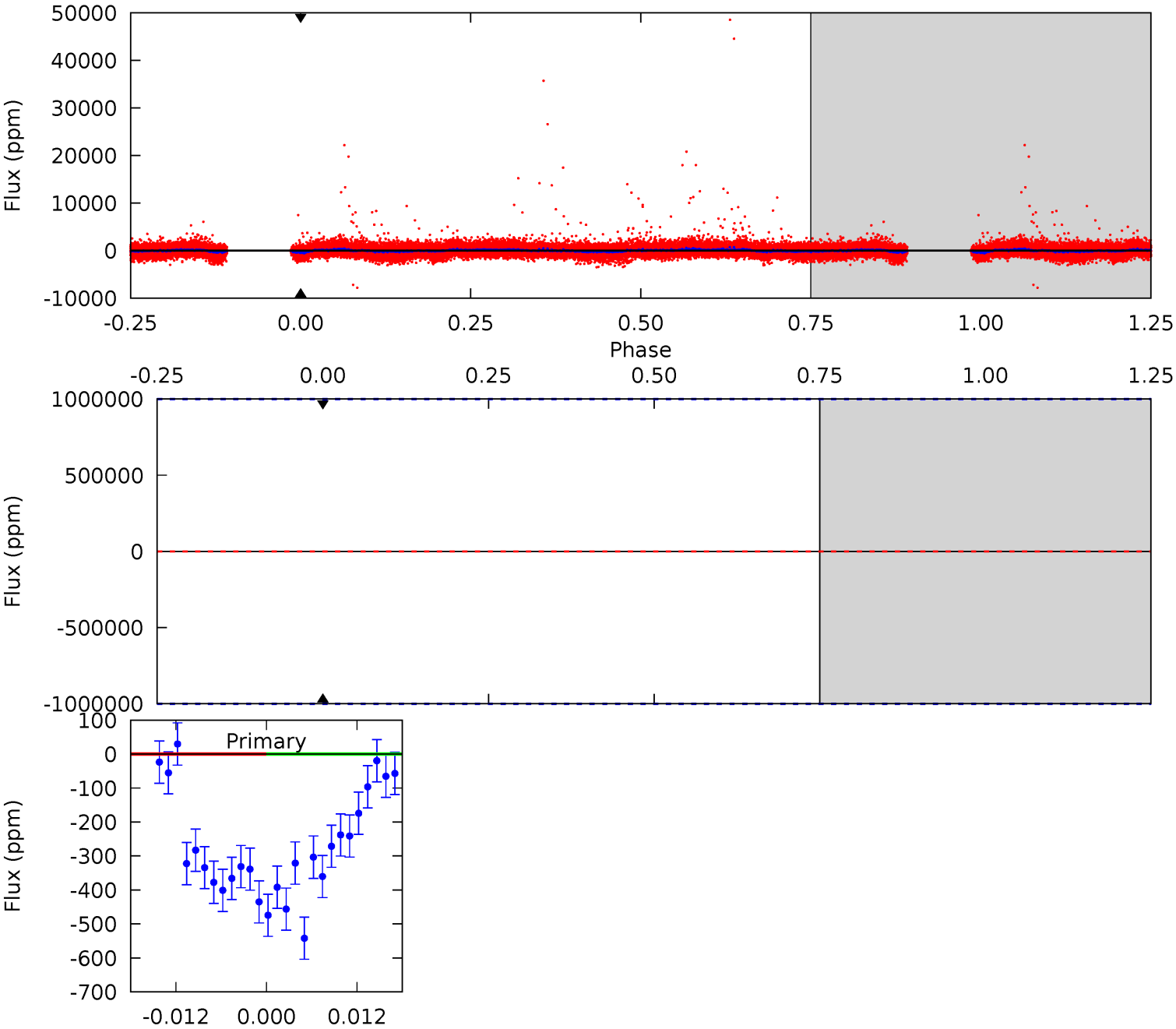
TCE 002445975-02 $P = 3.388968$ Days $T_0 = 131.928435$ (BKJD)



DV Model-Shift Uniqueness Test

002445975-02, P = 3.388968 Days, E = 128.392859 Days

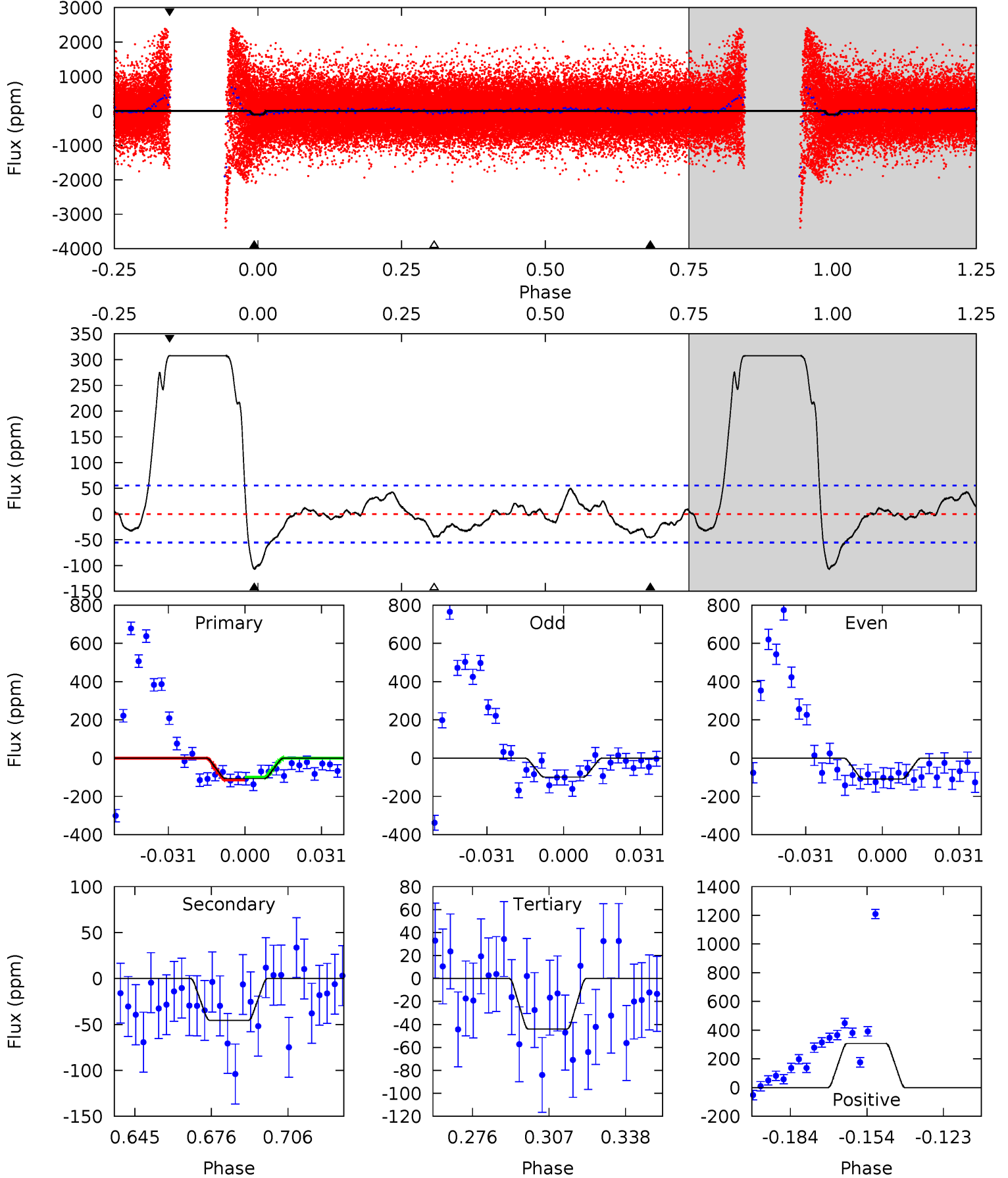
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

002445975-02, P = 3.388968 Days, E = 128.539467 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.23	3.95	3.82	26.7	4.81	2.16	5.00	5.41	-17.5	0.13	-22.7	0.45	1.16	0.74	0.64



Stellar Parameters For KIC 002445975

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5780^{+1}_{-1}	$4.438^{+1.000}_{-1.000}$	$0.000^{+1.000}_{-1.000}$	$1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$
	+0%/-0%	+23%/-23%	+inf%/-inf%	+100%/-100%	+100%/-100%	+100%/-100%
Source	Solar	Solar	Solar	Solar		

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

Secondary Eclipse Parameters for KIC 002445975-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$8.41^{+8.65}_{-5.76}$	1701^{+77}_{-85}	4498^{+19742}_{-20960}	29^{+3735}_{-1816}
Alt.	-46 ± 12	$7.77^{+7.81}_{-5.65}$	1694^{+88}_{-80}	2449^{+1259}_{-4519}	$0.792^{+8.777}_{-0.609}$

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

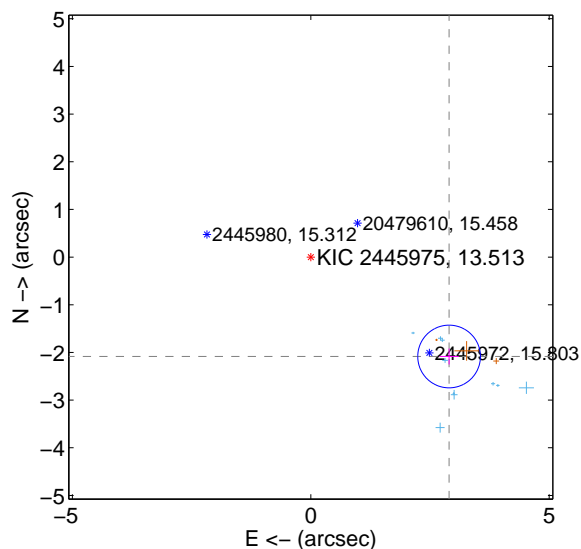
Supplemental centroid analysis for 002445975-02. Kepler magnitude: 13.51. Transit SNR -1.00

There are 10 quarters with good PRF difference image offsets

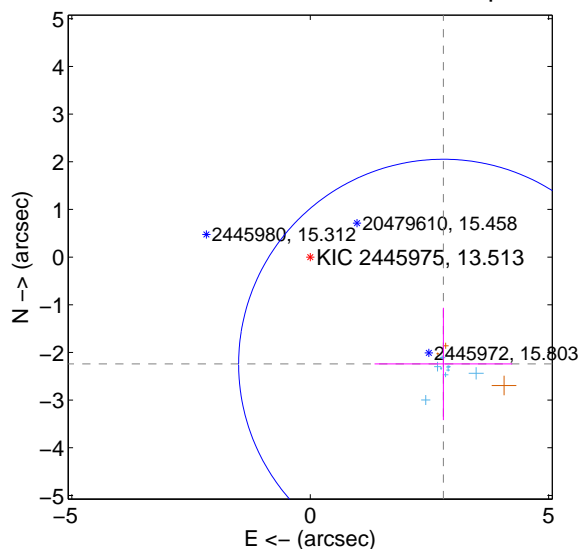
The direct PRF centroid is offset from the target star catalog position by about 0.68 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.573 ± 0.219	16.30	-2.901 ± 0.203	-2.085 ± 0.166
PRF-fit source offset from KIC position	3.581 ± 1.431	2.50	-2.792 ± 1.444	-2.241 ± 1.178
photometric centroid source offset	0.15 ± 0.95	0.15	0.15 ± 0.95	-0.01 ± 0.88

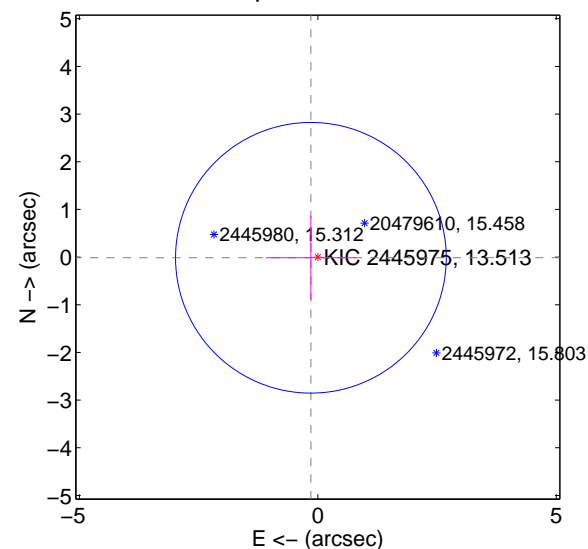
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

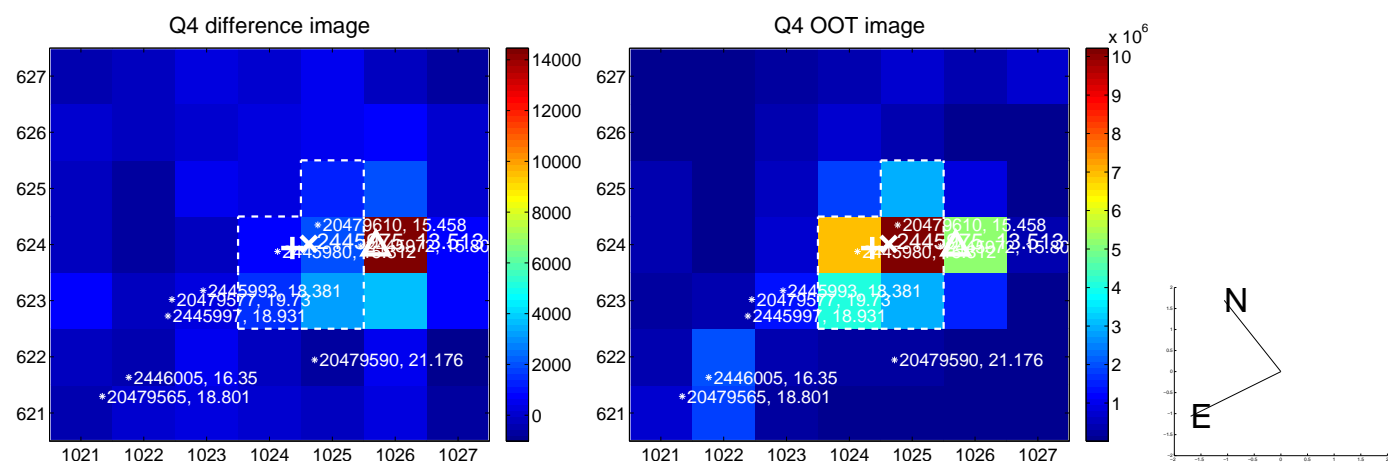
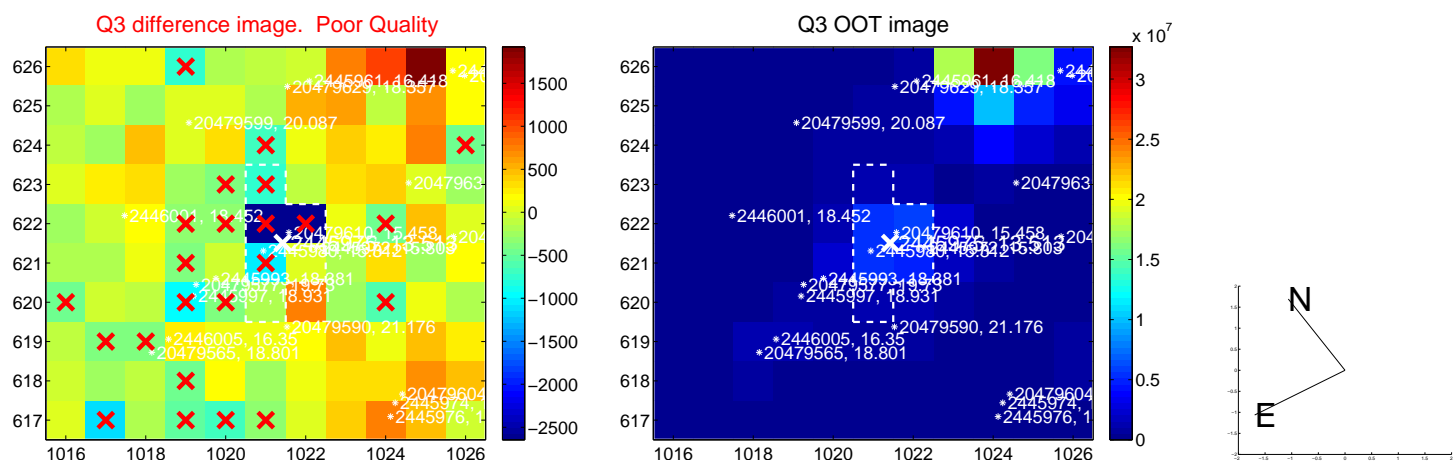
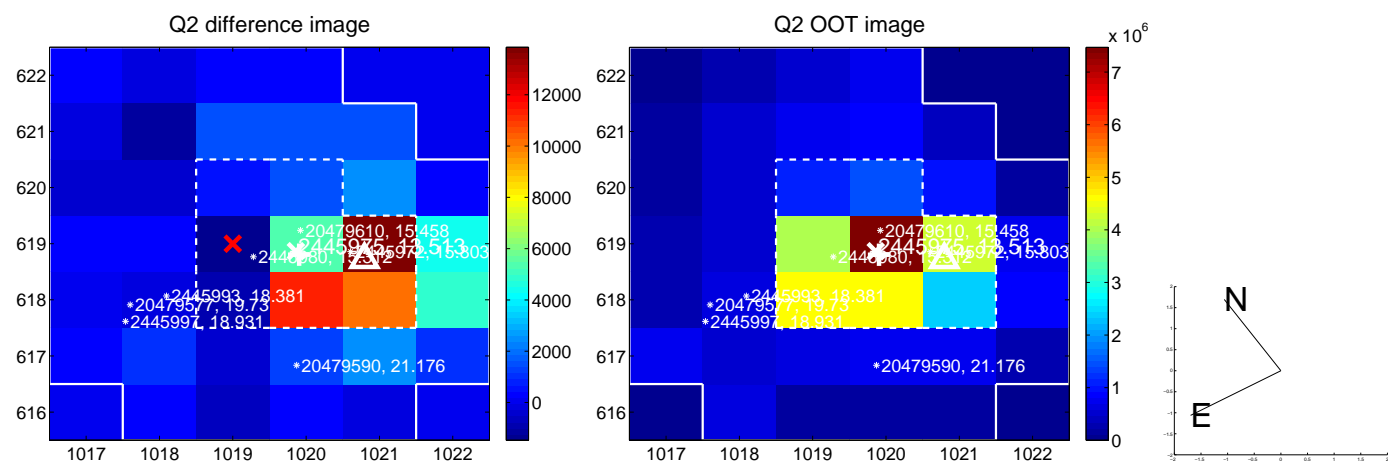
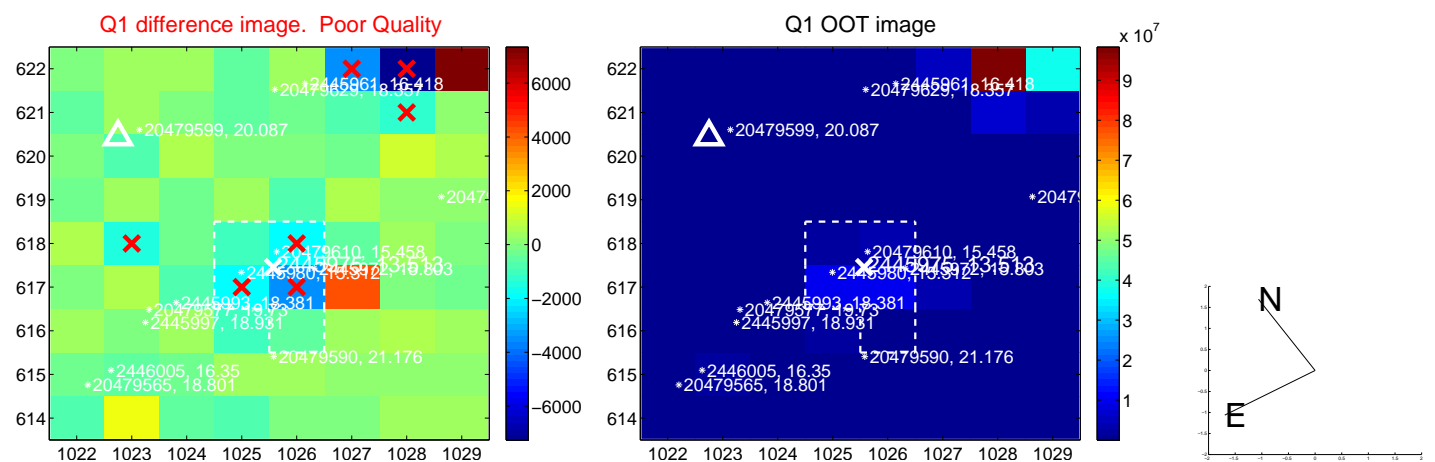


offset from photometric centroids

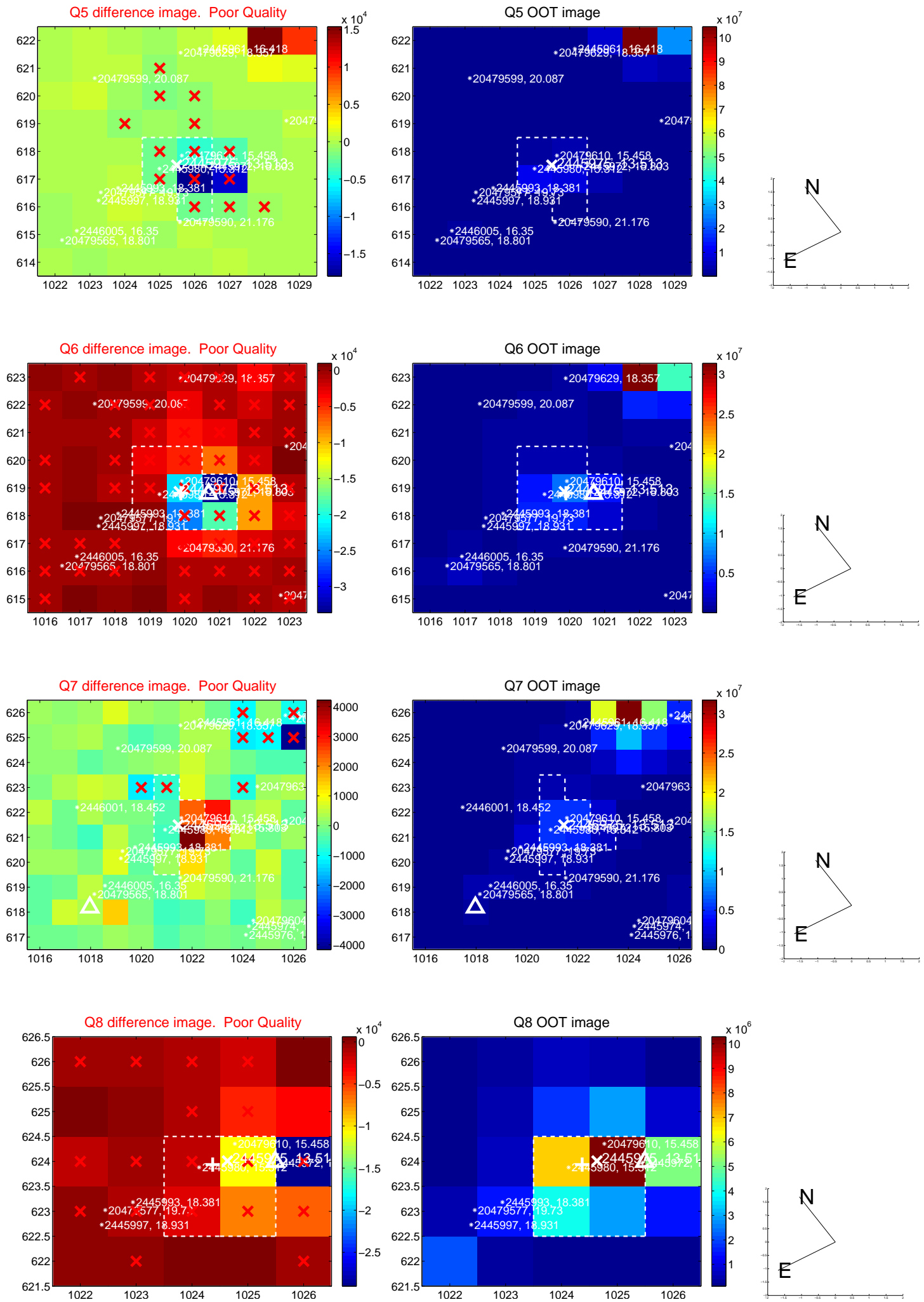


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

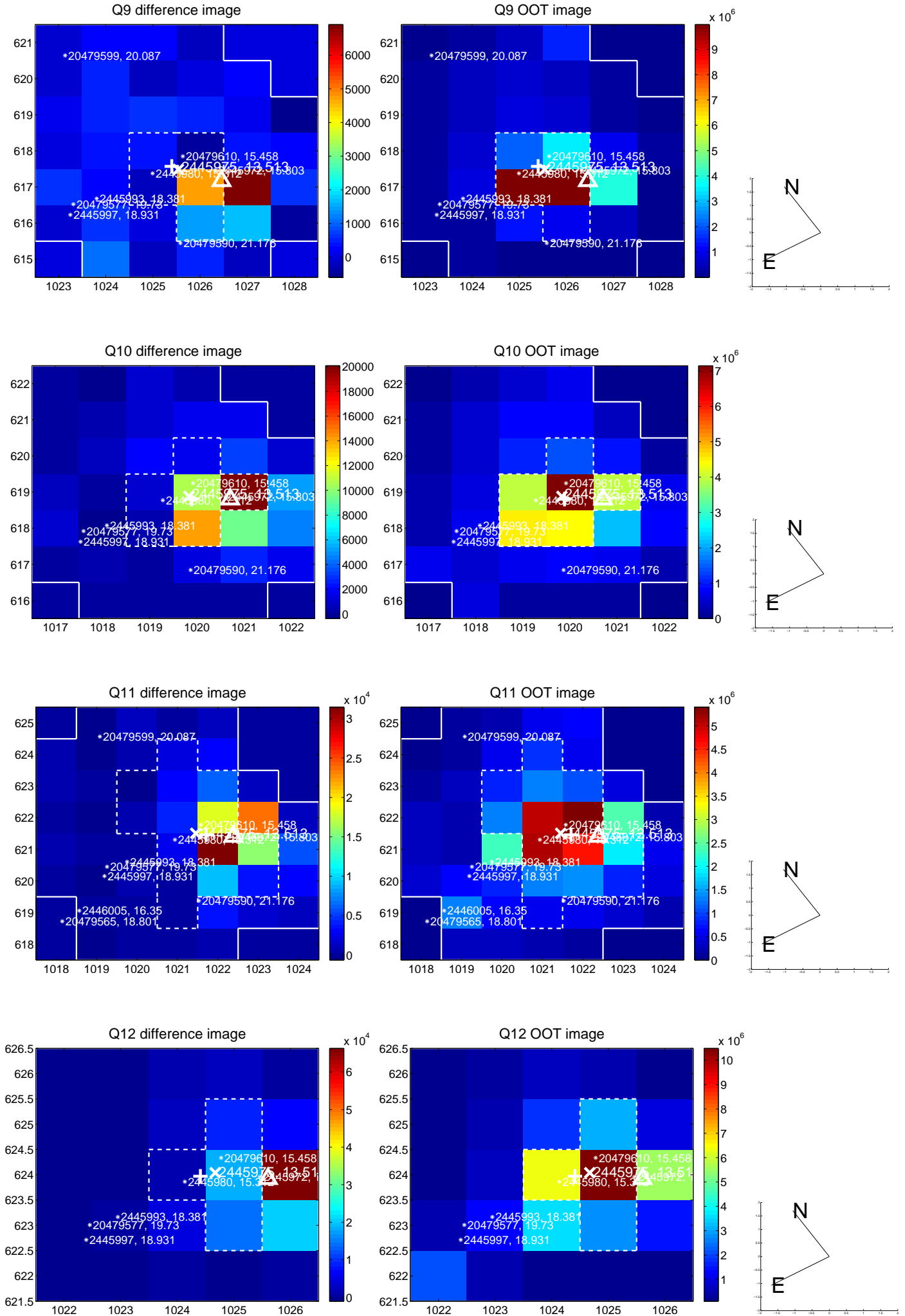
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



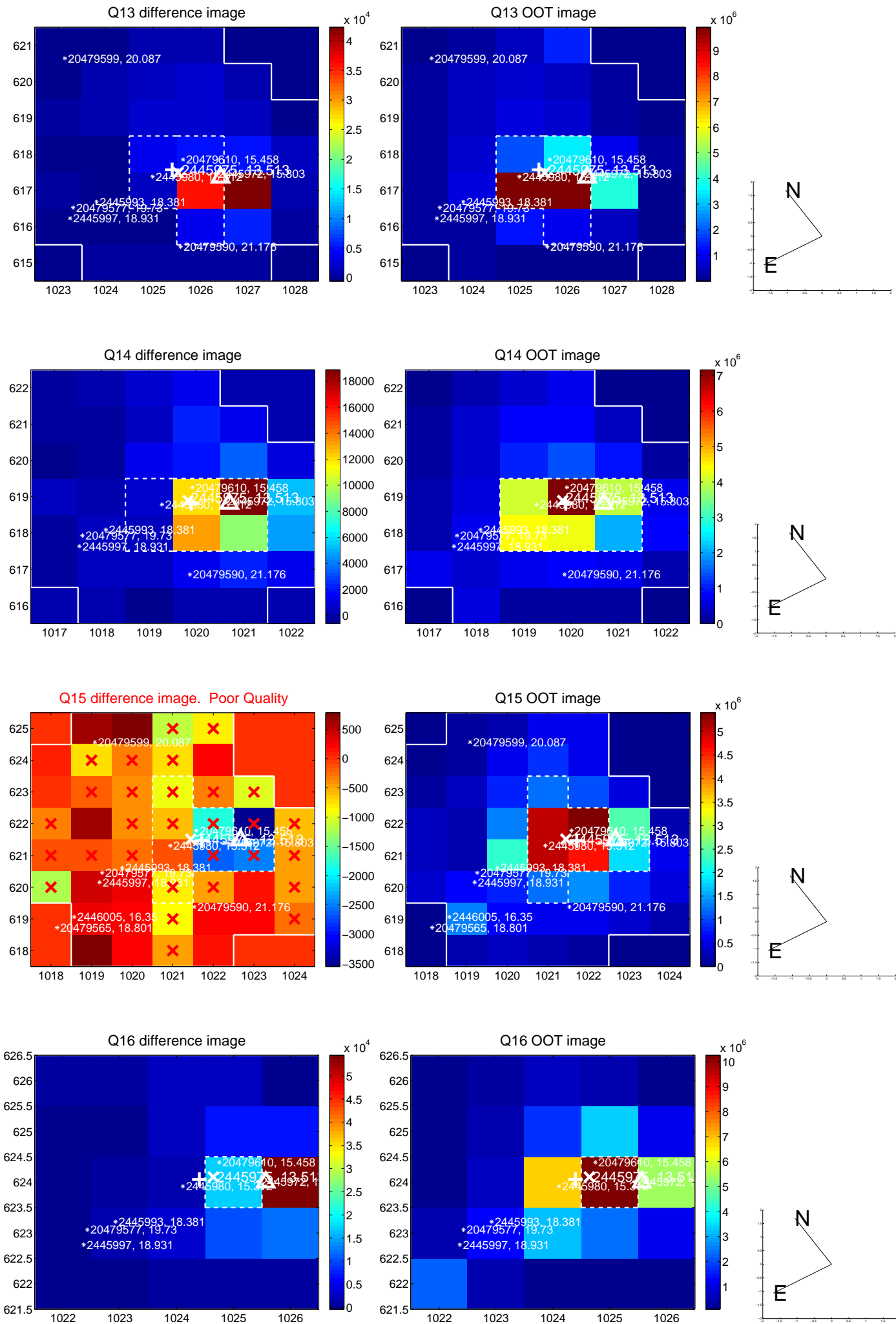
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



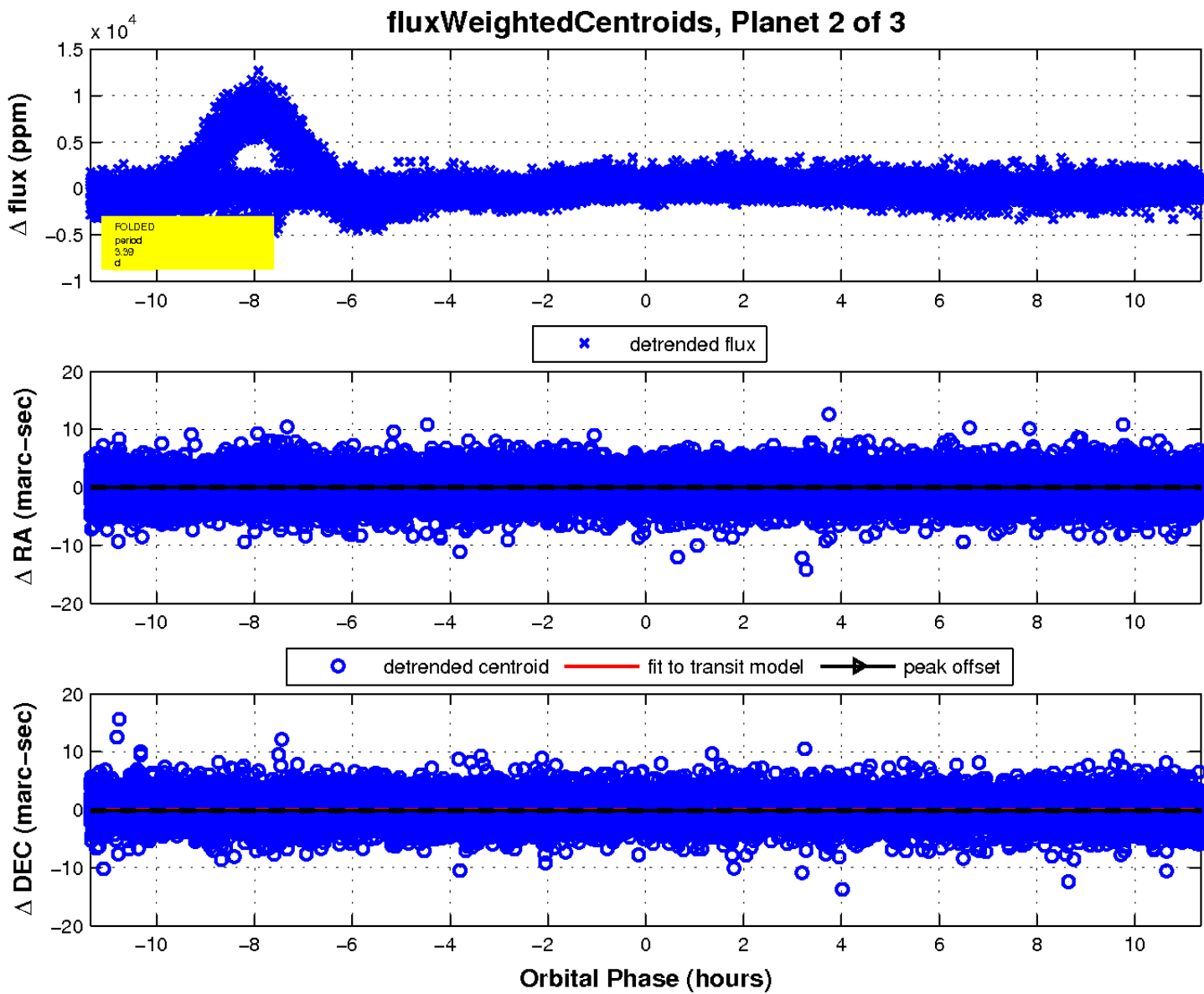
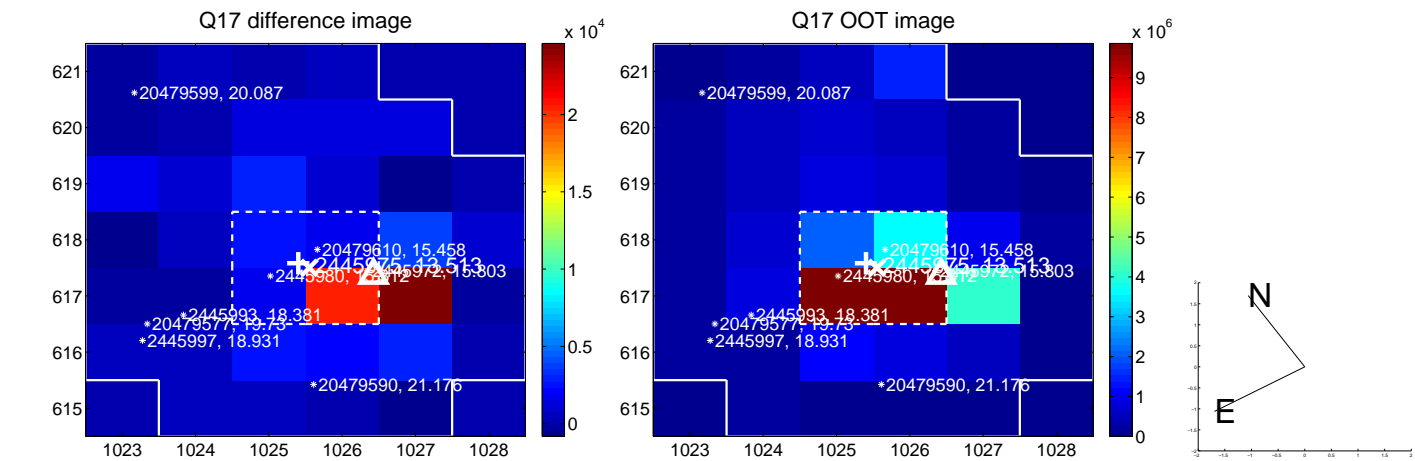
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

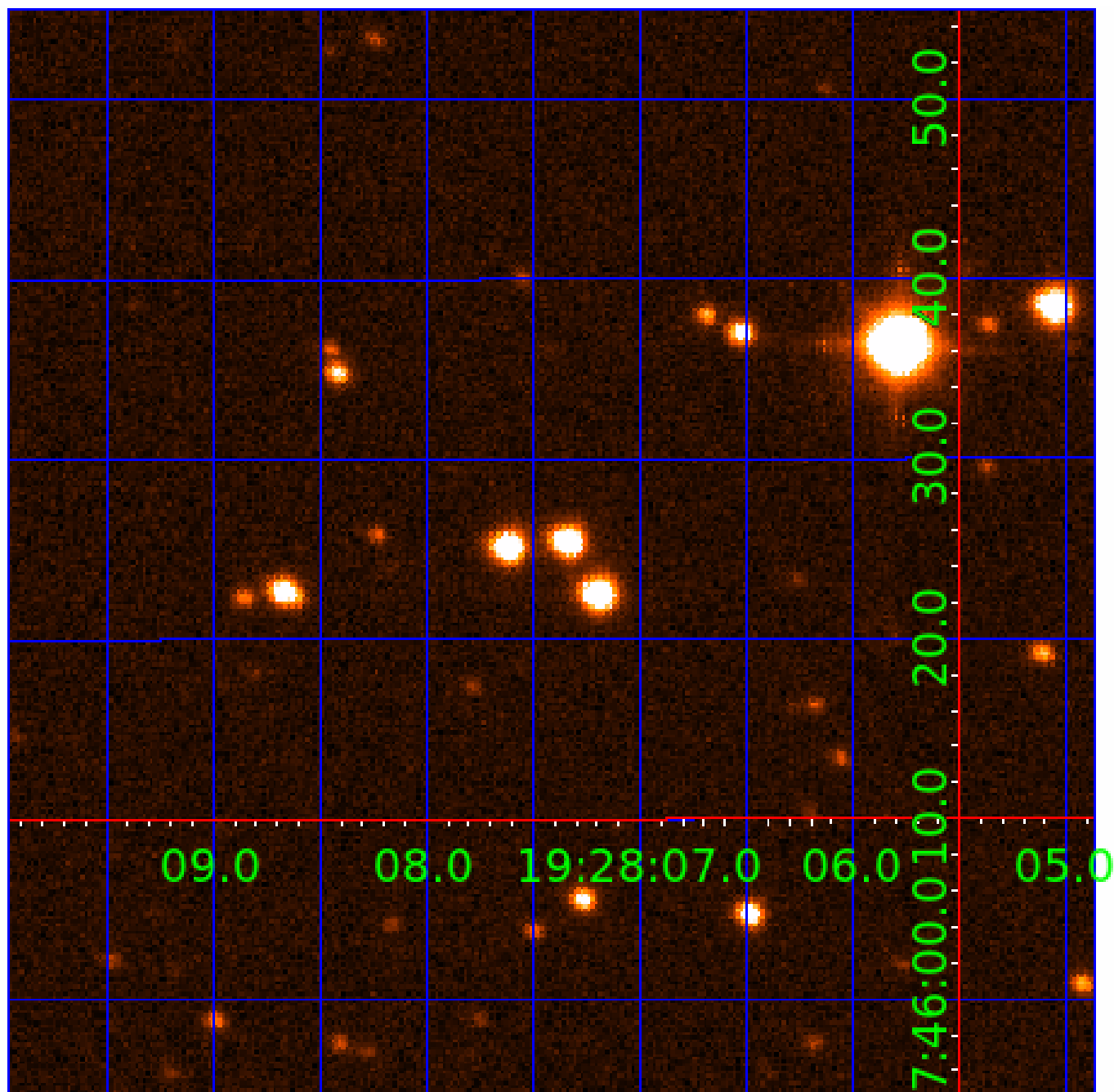


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 002445975

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})
002445975-01	OBS	0053.01	3.388883	131.593226	11142.4	2.637	462.3	437.2	1.00	5780	11.57	512.70
002445975-02	OBS	No	3.388968	131.781827	835.9	2.500	11.9	-1.0	1.00	5780	2.87	512.68
002445975-03	OBS	No	3.388753	134.795415	301.3	1.881	11.3	14.2	1.00	5780	1.80	512.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002445975-01	OBS	FP	0.00	0	1	1	0	MOD_ODDEVEN_DV—CENT_UNRESOLVED_OFFSET
002445975-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—RESIDUAL_TCE—CENT_NOFITS
002445975-03	OBS	FP	0.00	1	0	0	0	LPP_DV—RESIDUAL_TCE—CENT_FEW_DIFFS

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 002445975-03

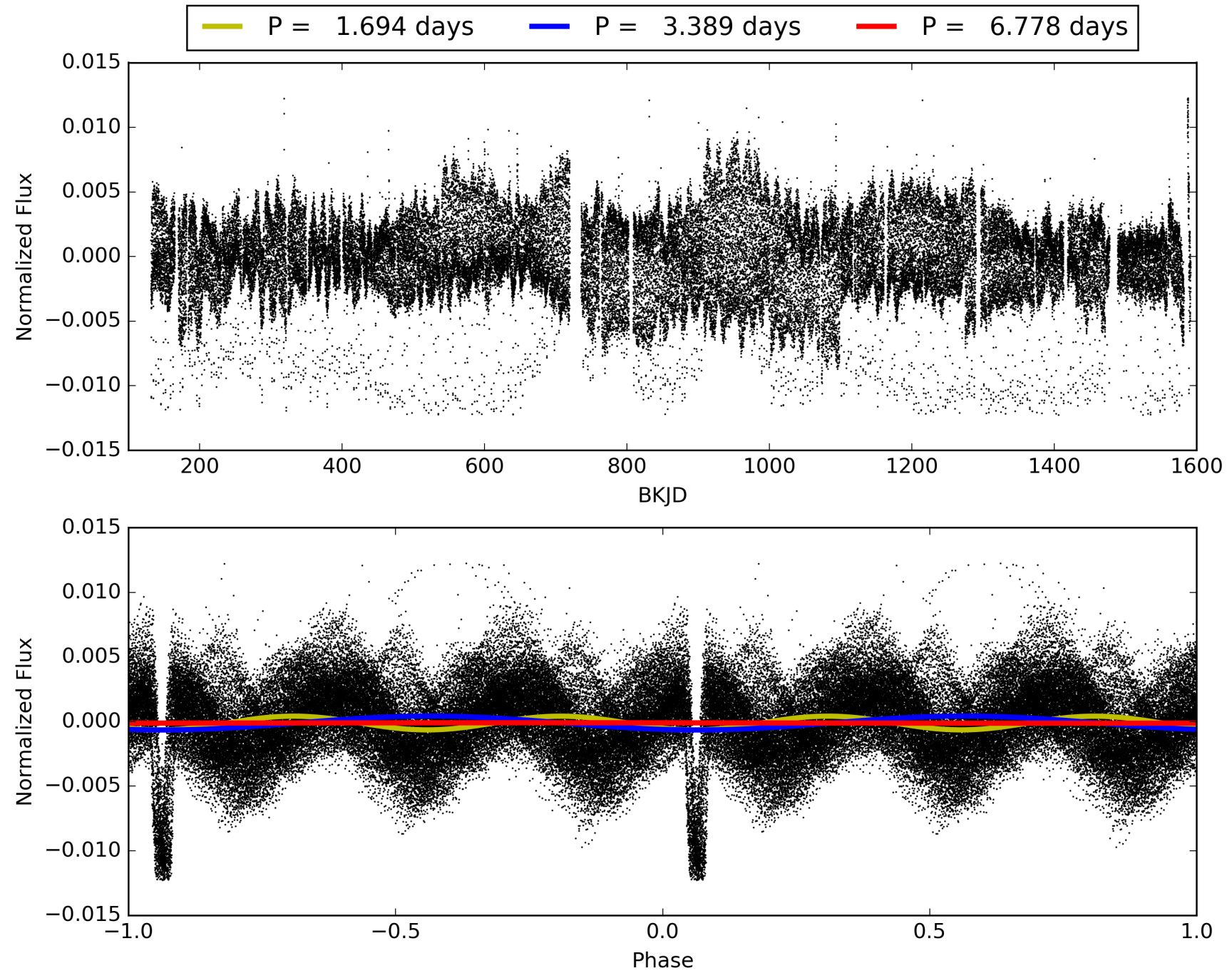
No Significant Match Found

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

TCE 002445975-03, PDC Light Curves

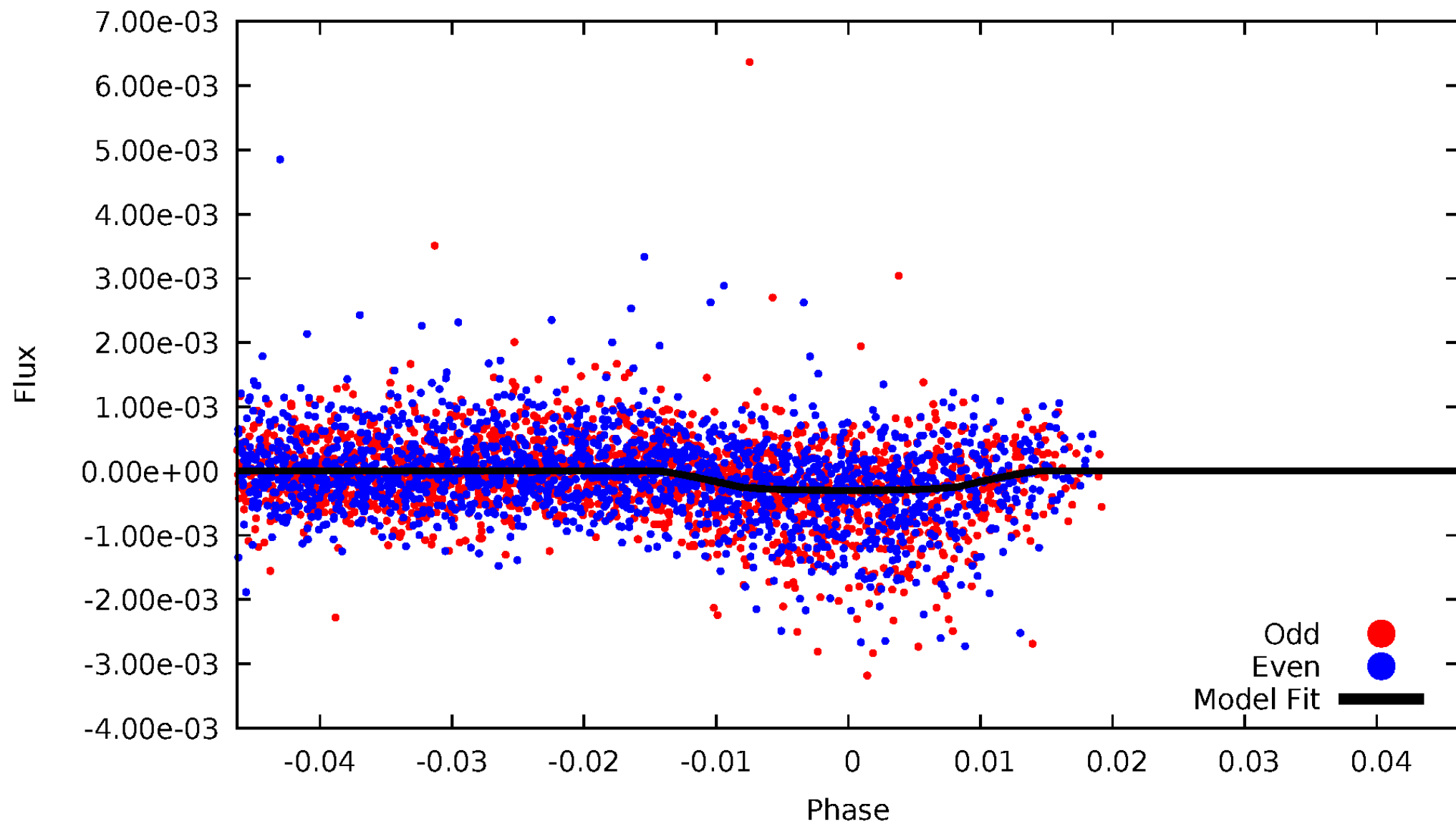


TCE 002445975-03



DV Odd/Even

TCE 002445975-03

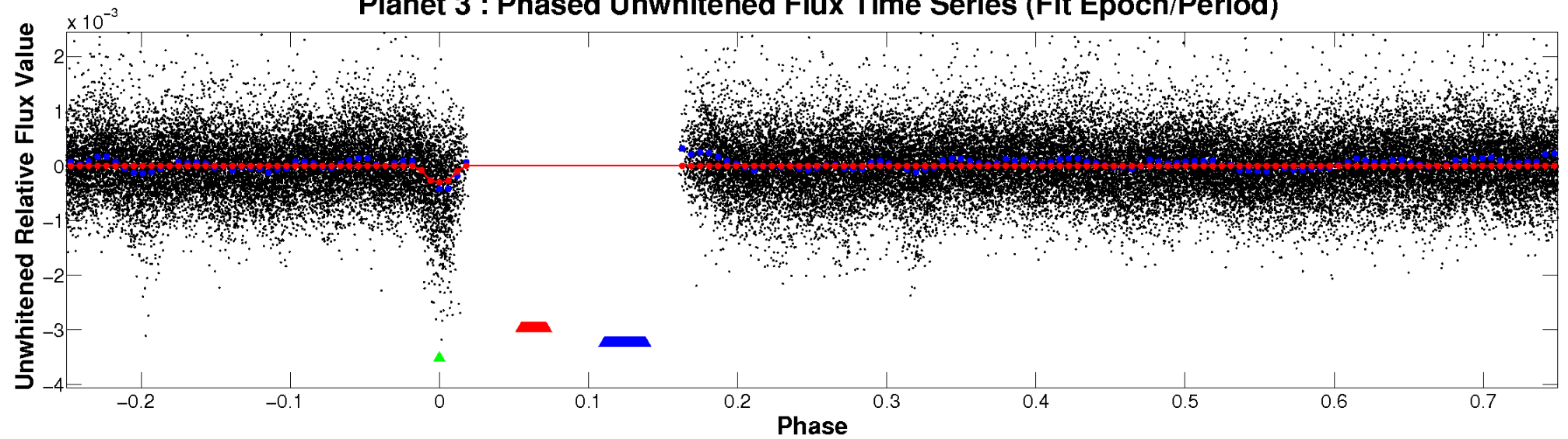


ALT Odd/Even

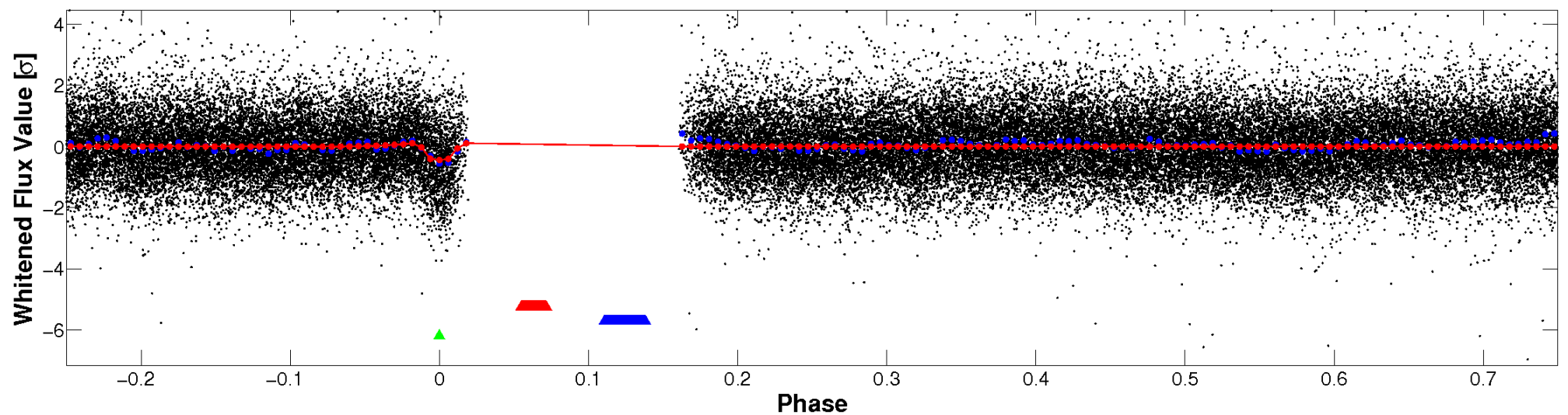
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

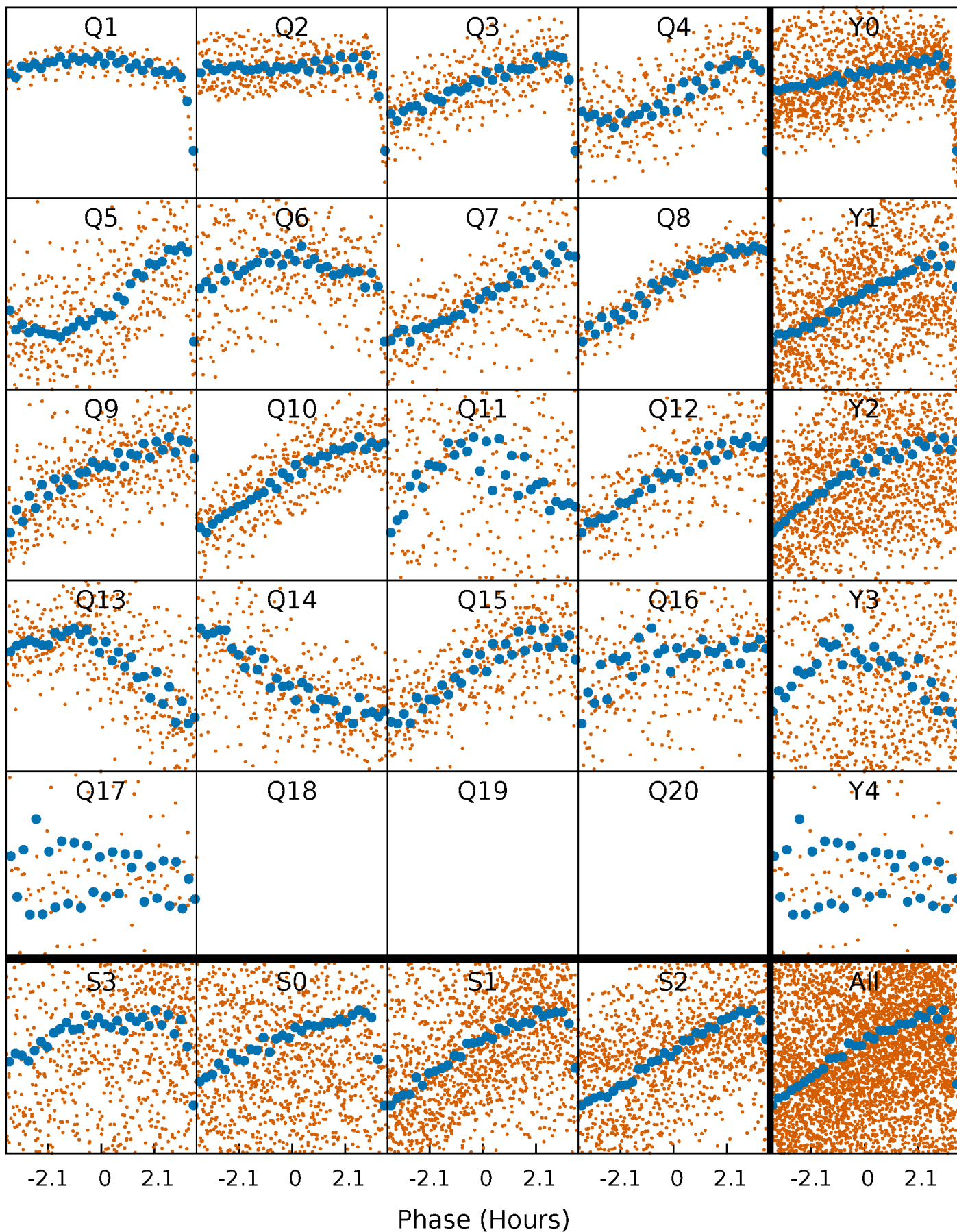


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



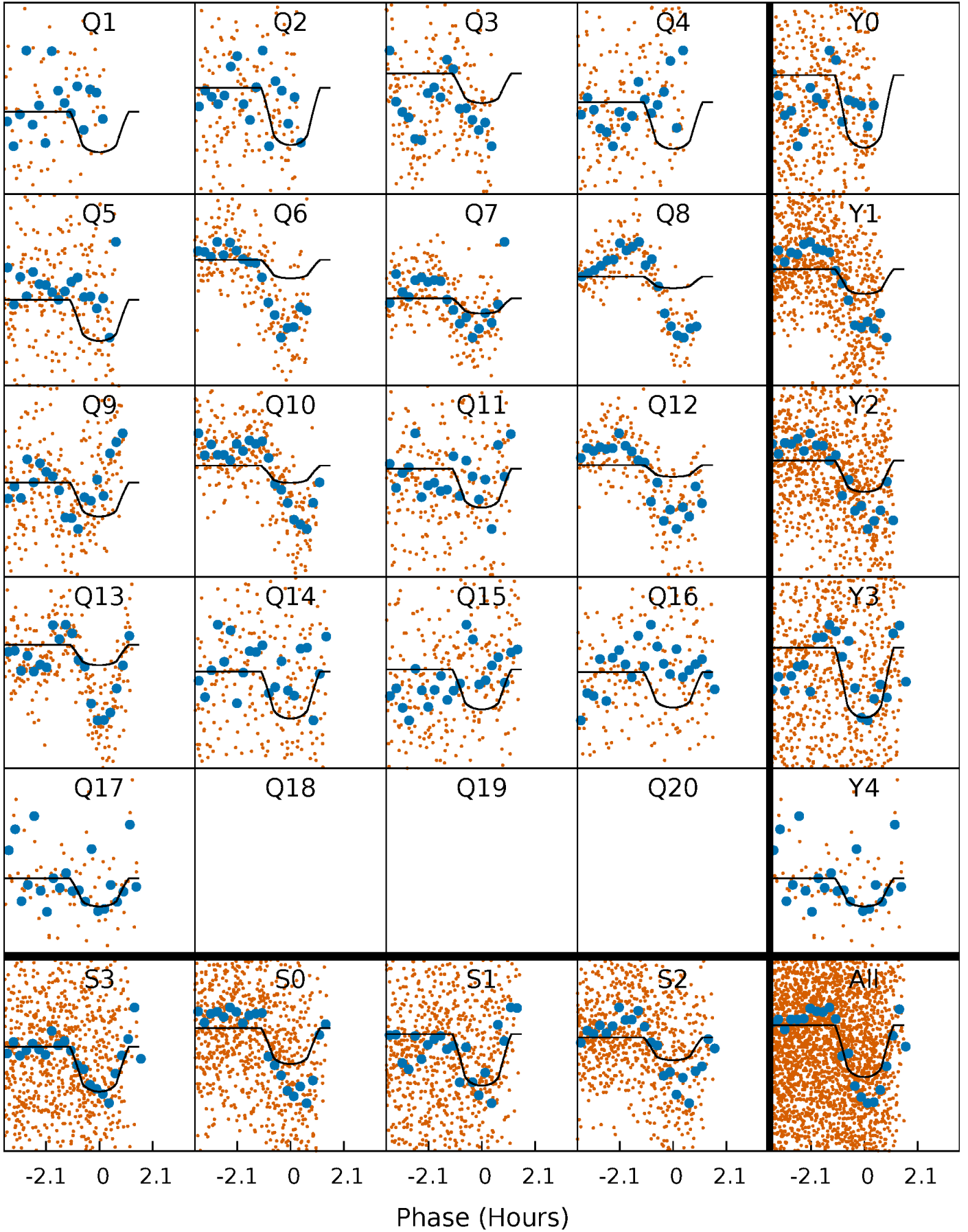
PDC Quarter-Phased Transit Curves

TCE 002445975-03 P= 3.388753 Days $T_0=134.795415$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 002445975-03 $P = 3.388753$ Days $T_0 = 134.795415$ (BKJD)

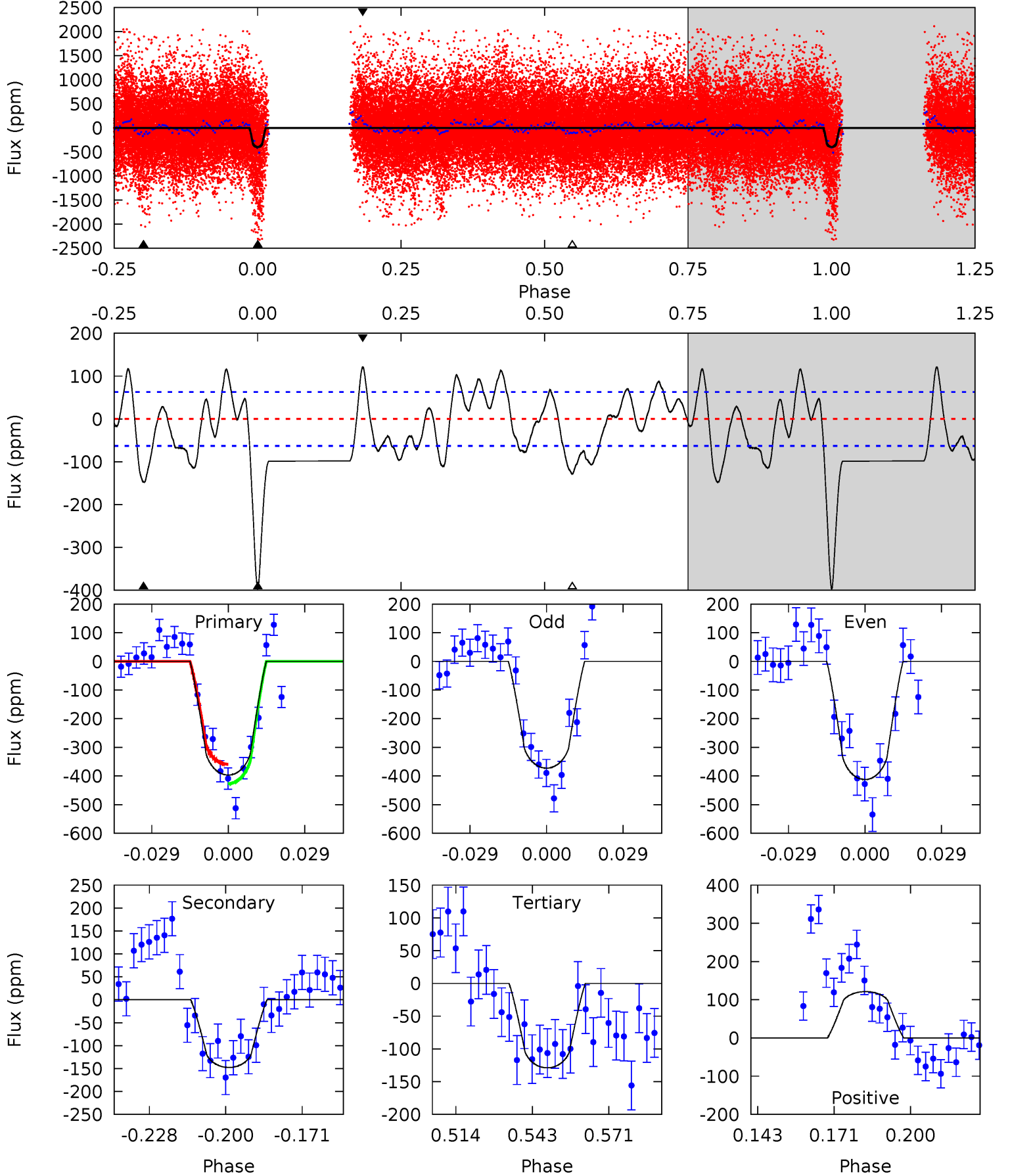


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

002445975-03, P = 3.388753 Days, E = 131.406662 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.4	11.3	9.87	9.29	4.82	2.19	4.71	20.5	21.1	1.44	2.02	1.53	1.33	0.23	2.53



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 002445975

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5780^{+1}_{-1}	$4.438^{+1.000}_{-1.000}$	$0.000^{+1.000}_{-1.000}$	$1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$
	+0%/-0%	+23%/-23%	+inf%/-inf%	+100%/-100%	+100%/-100%	+100%/-100%
Source	Solar	Solar	Solar	Solar		

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

Secondary Eclipse Parameters for KIC 002445975-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-148 ± 13	$1.86^{+1.00}_{-0.85}$	1695^{+82}_{-79}	4969^{+1613}_{-758}	46^{+103}_{-26}
Alt.	N/A	N/A	N/A	N/A	N/A

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

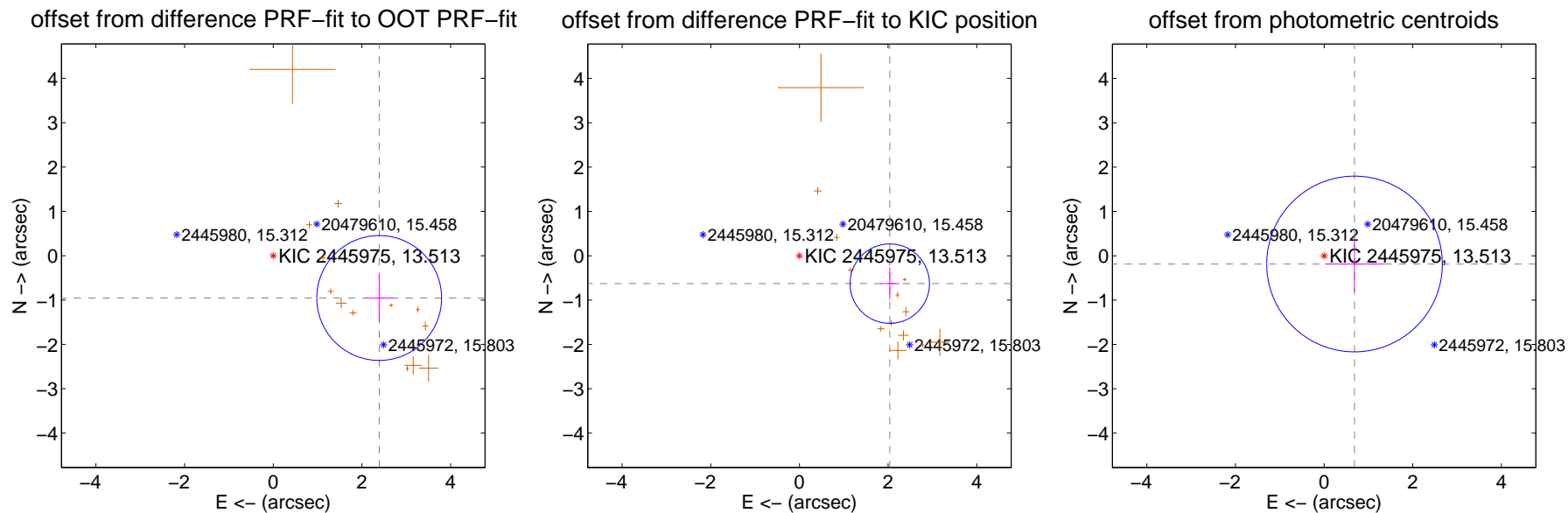
DV Centroid Data

Supplemental centroid analysis for 002445975-03. Kepler magnitude: 13.51. Transit SNR 14.23

There are 0 quarters with good PRF difference image offsets

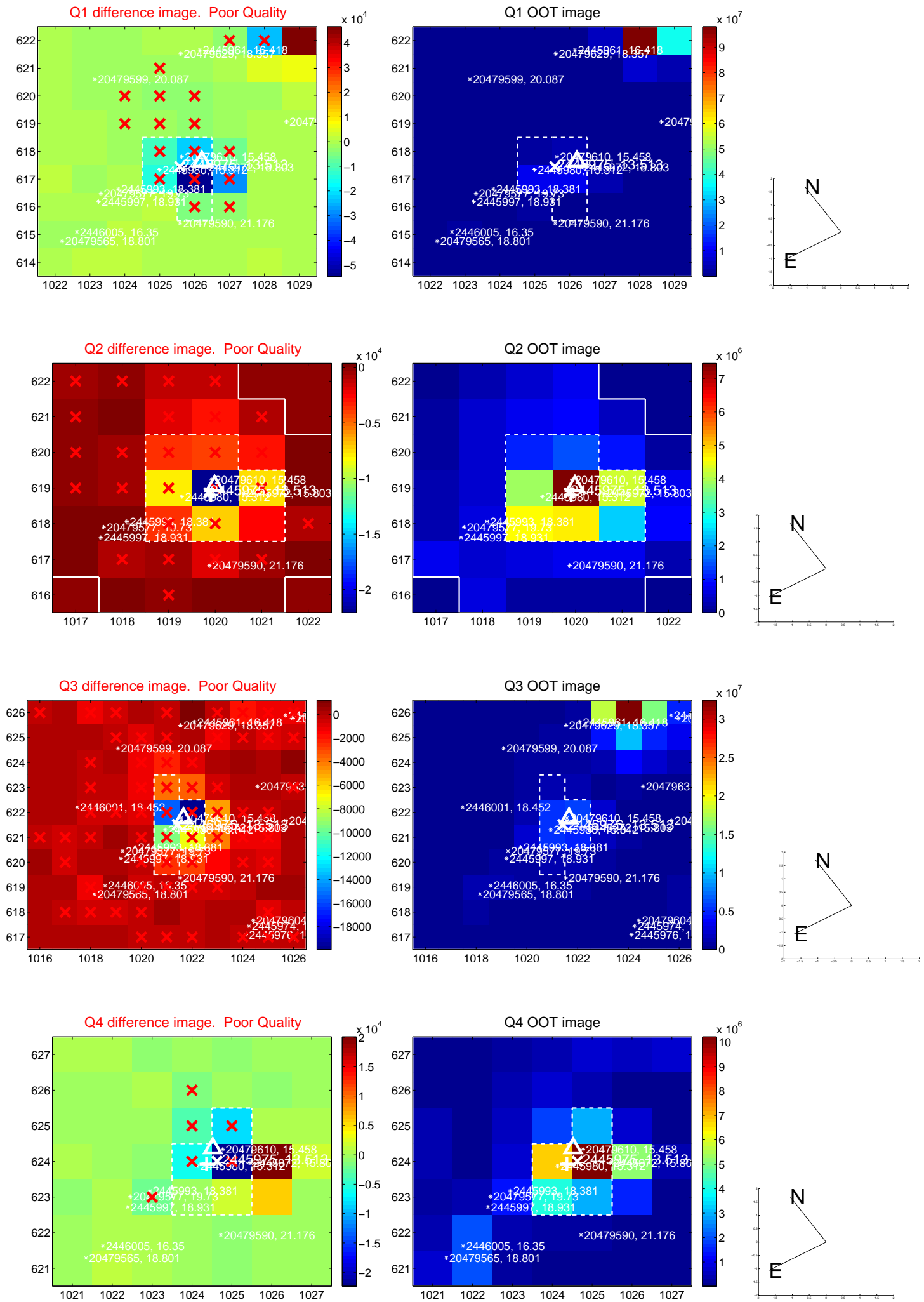
The direct PRF centroid is offset from the target star catalog position by about 0.67 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.573 ± 0.469	5.48	-2.390 ± 0.320	-0.953 ± 0.525
PRF-fit source offset from KIC position	2.133 ± 0.299	7.14	-2.038 ± 0.217	-0.629 ± 0.363
photometric centroid source offset	0.71 ± 0.66	1.08	-0.69 ± 0.66	-0.19 ± 0.62

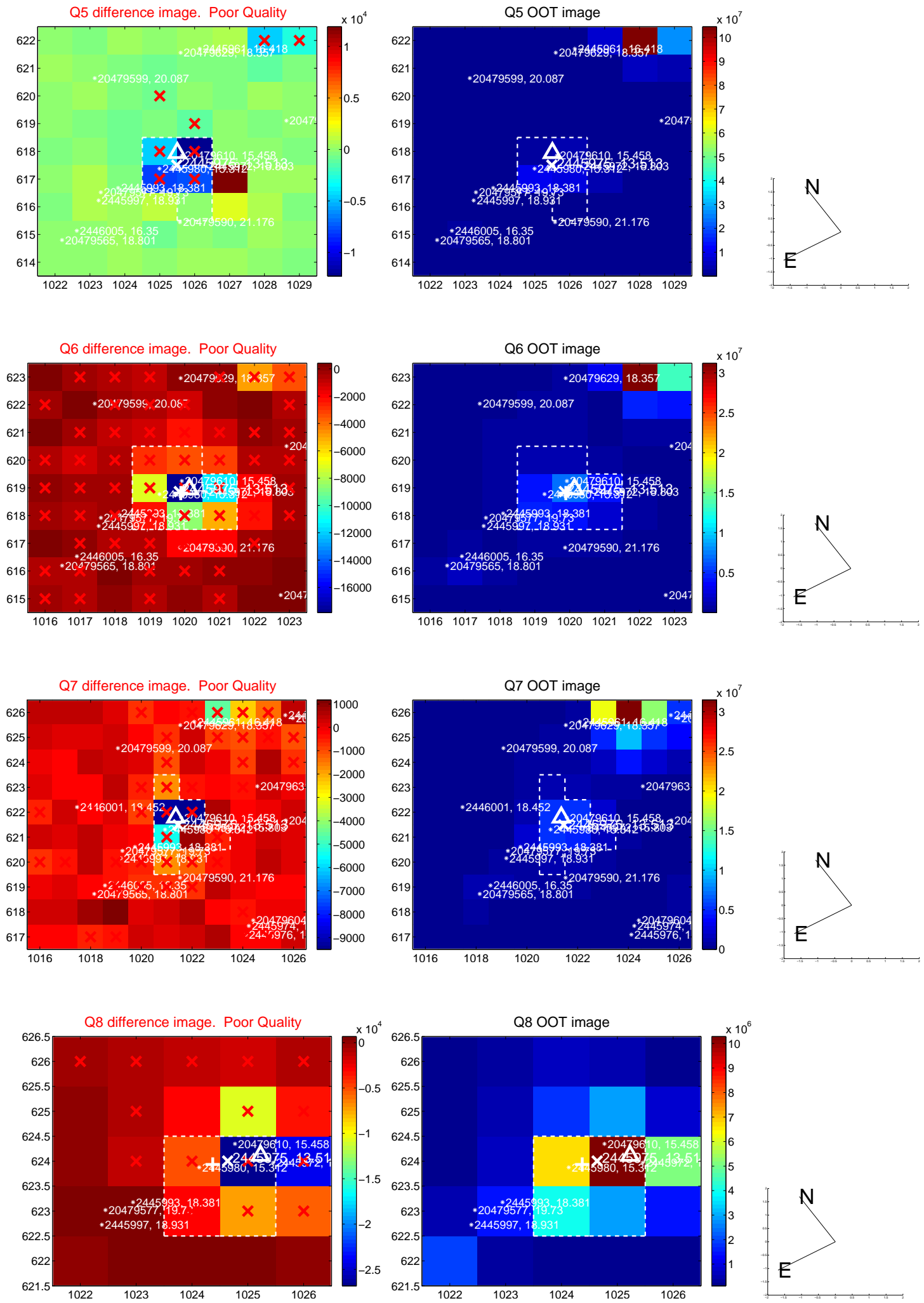


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

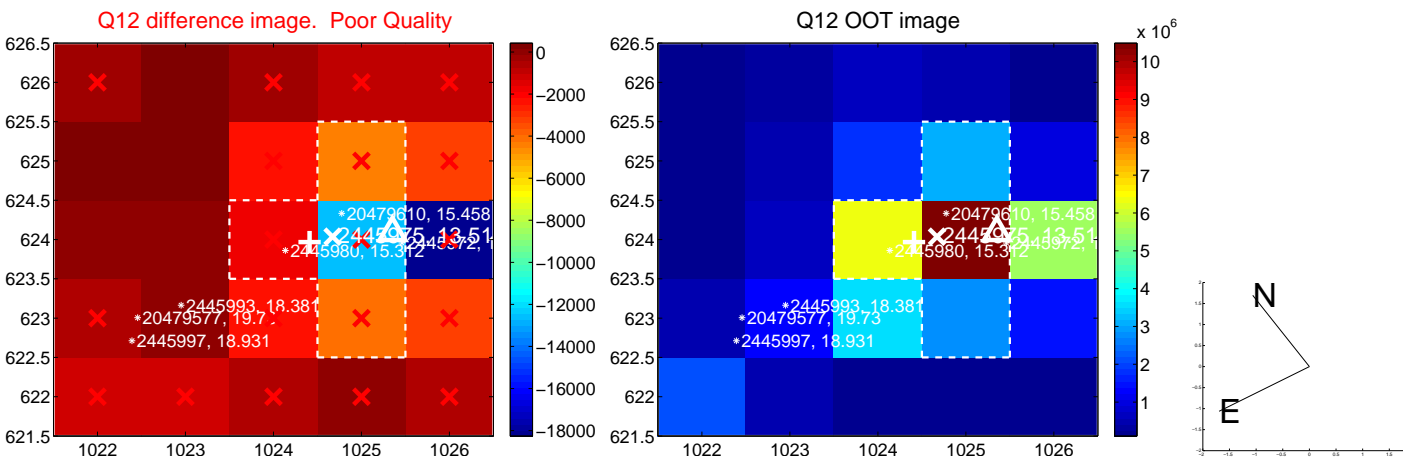
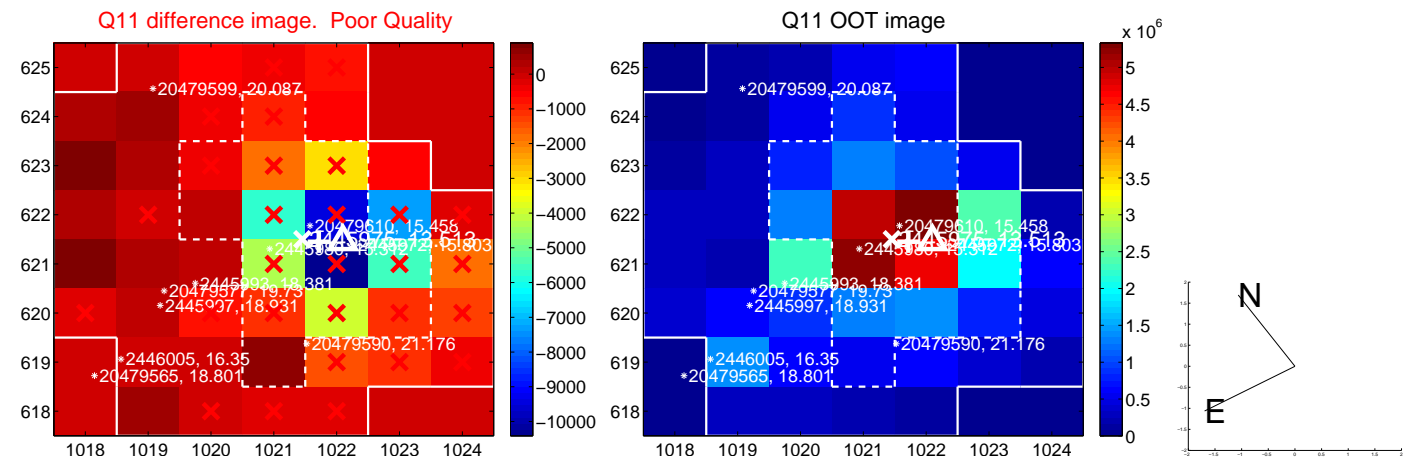
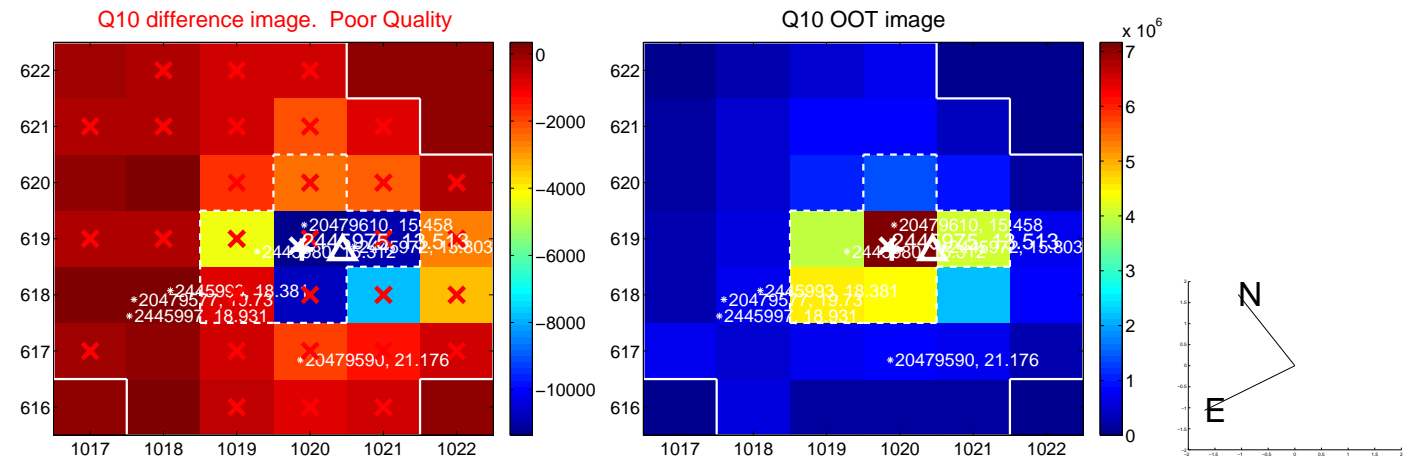
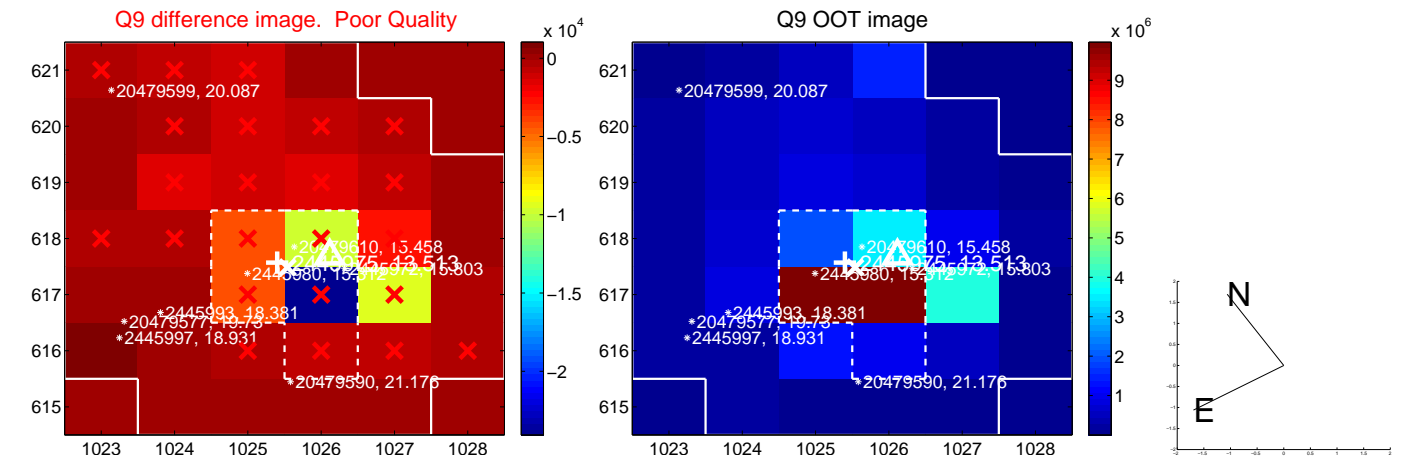
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



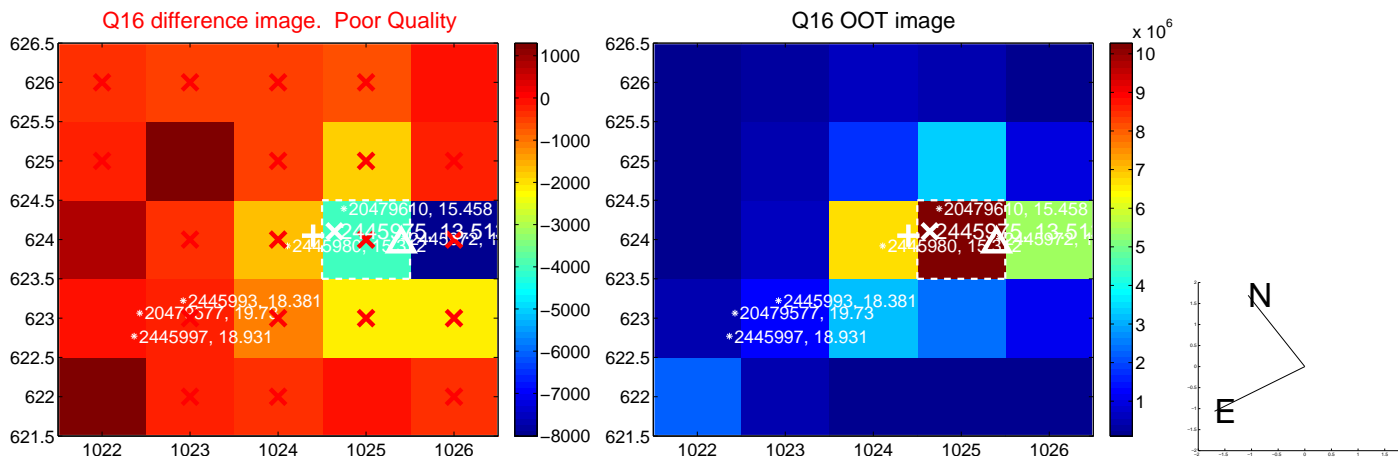
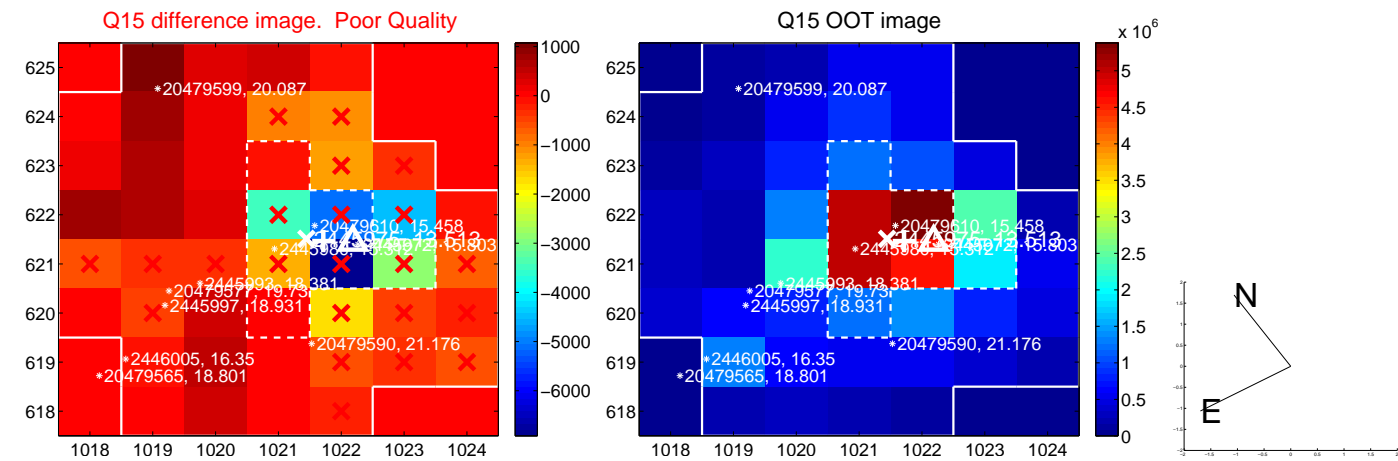
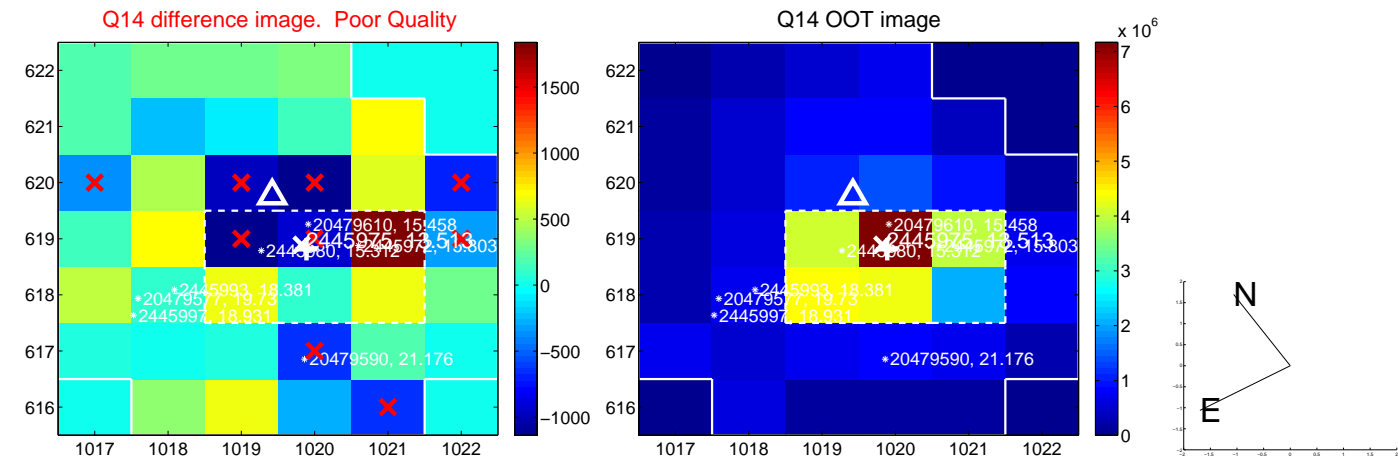
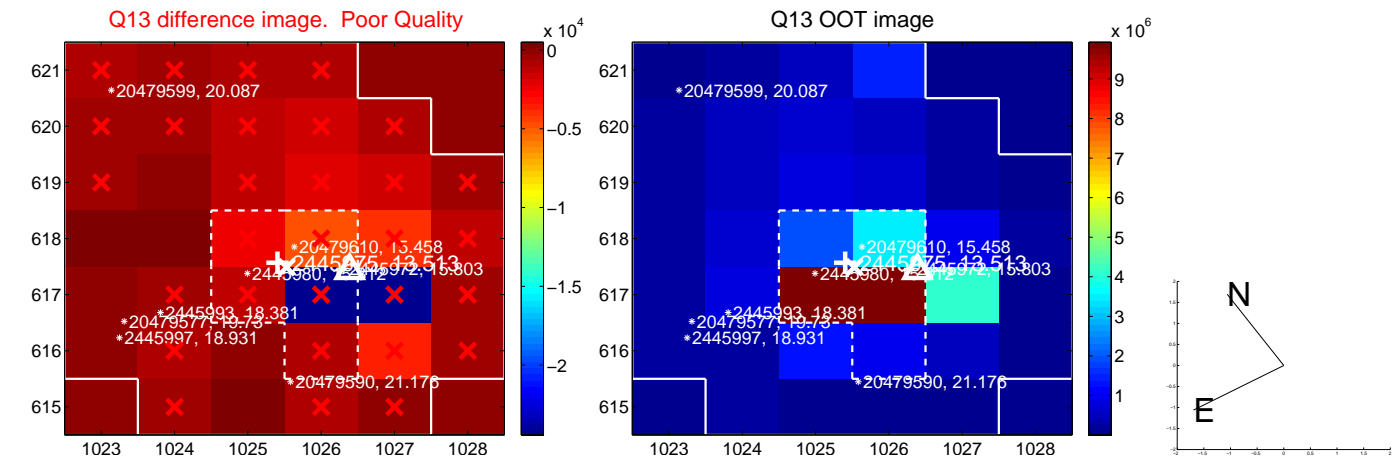
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



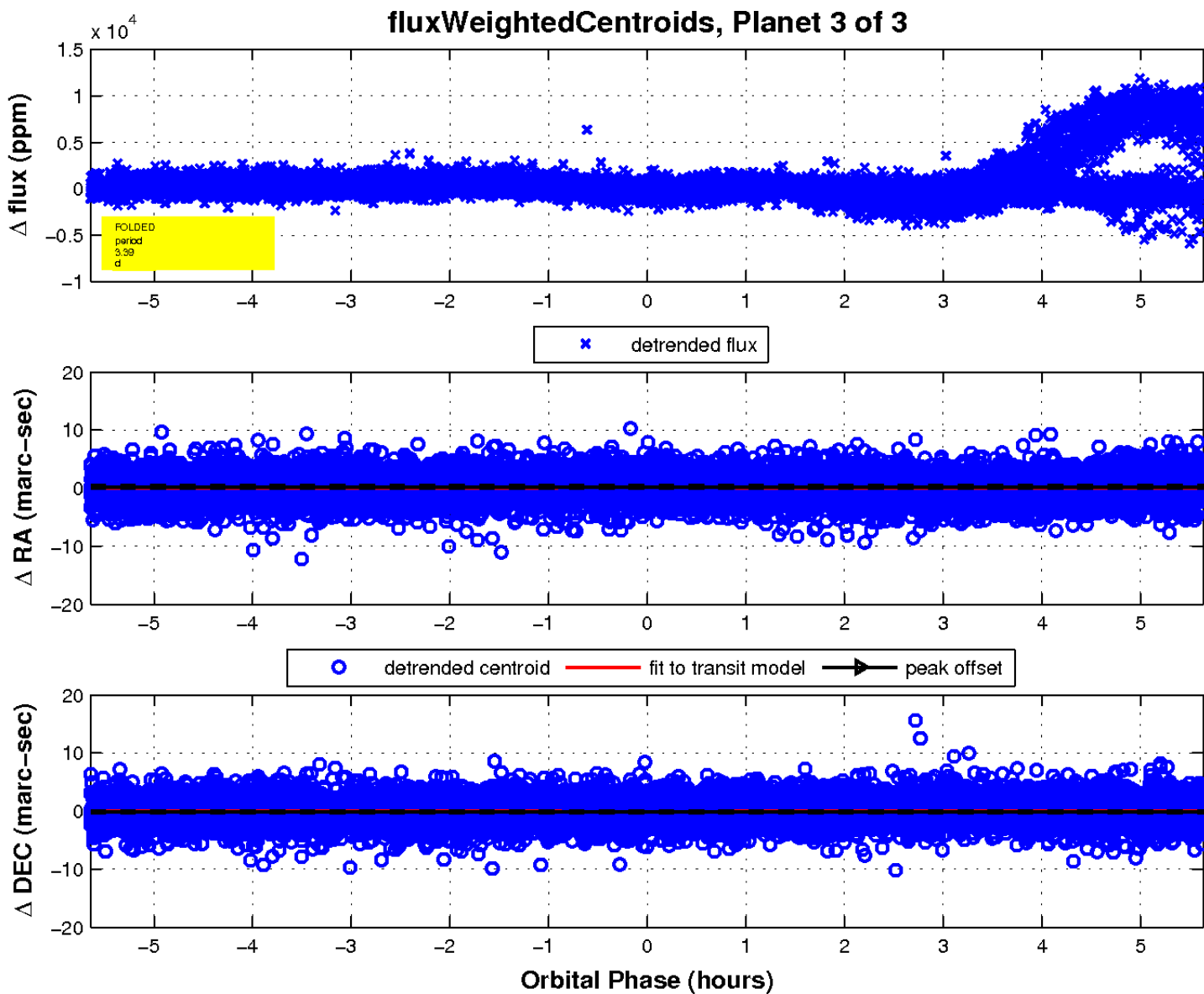
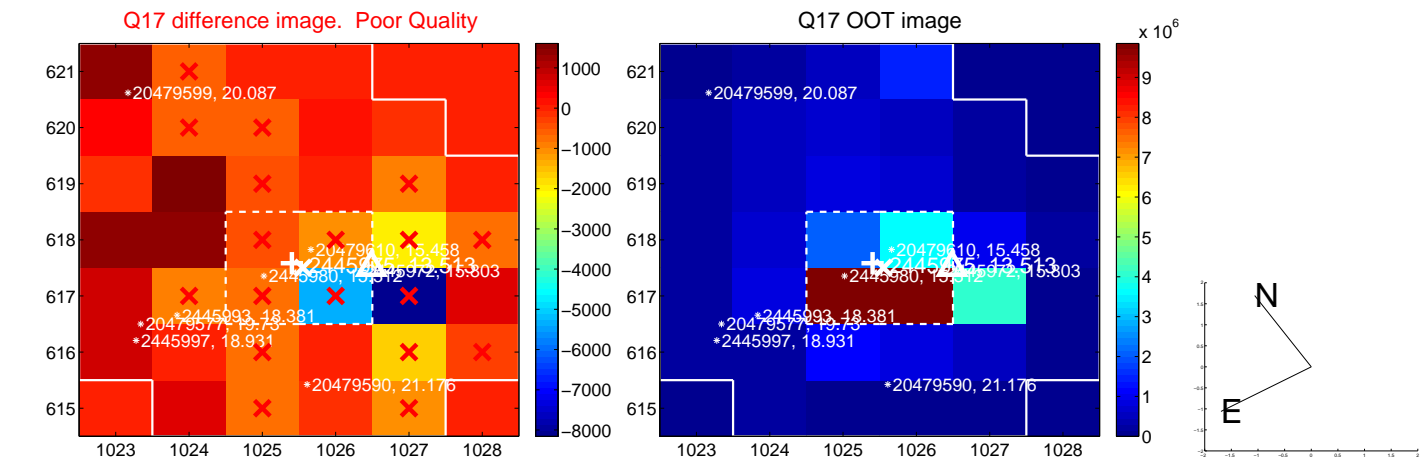
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

