

KIC 006289468

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})
006289468-01	OBS	No	0.616141	131.518913	30.3	4.625	11.6	12.0	6.49	8173	3.63	0.00
006289468-02	OBS	No	10.442974	134.346905	877.1	0.539	13.4	19.4	6.49	8173	23.03	9395.22
006289468-03	OBS	No	15.154561	143.986229	549.9	2.558	9.9	20.6	6.49	8173	16.01	5718.49
006289468-04	OBS	No	6.433770	133.885937	277.6	1.887	12.0	13.9	6.49	8173	11.20	17921.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006289468-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
006289468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

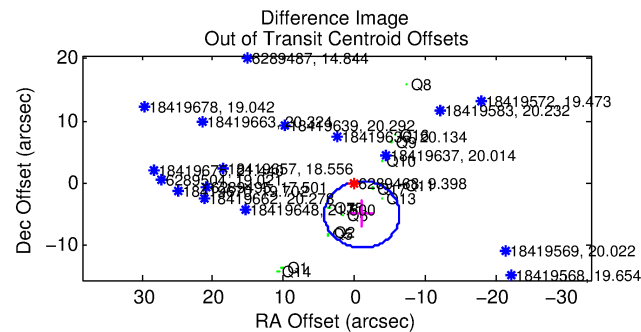
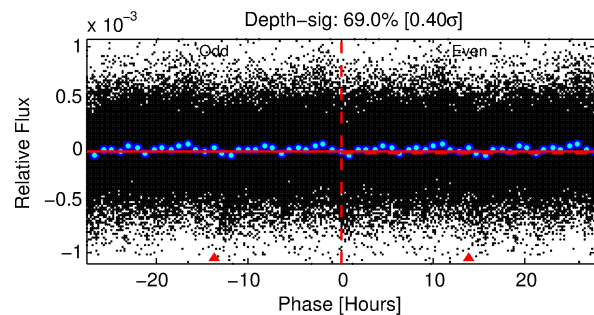
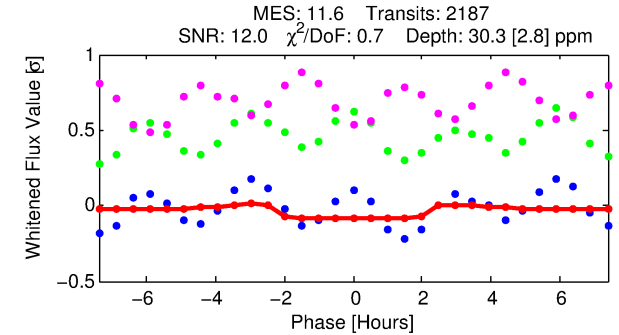
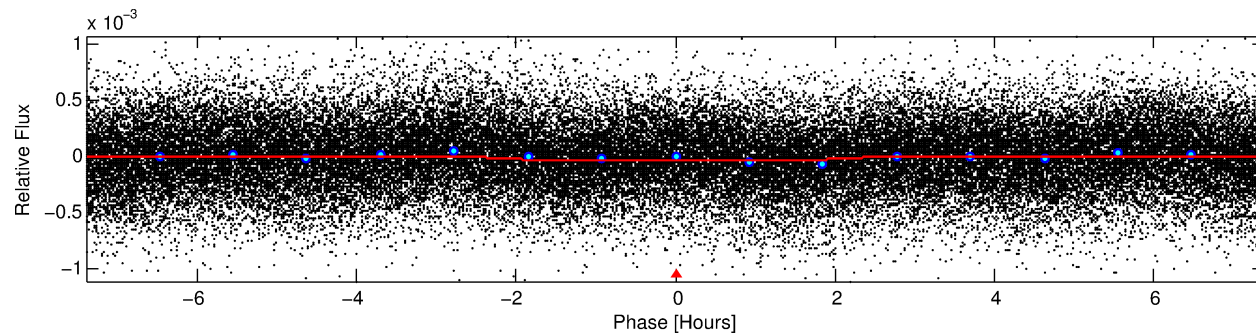
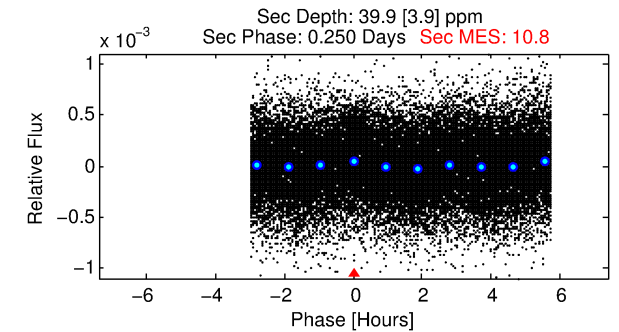
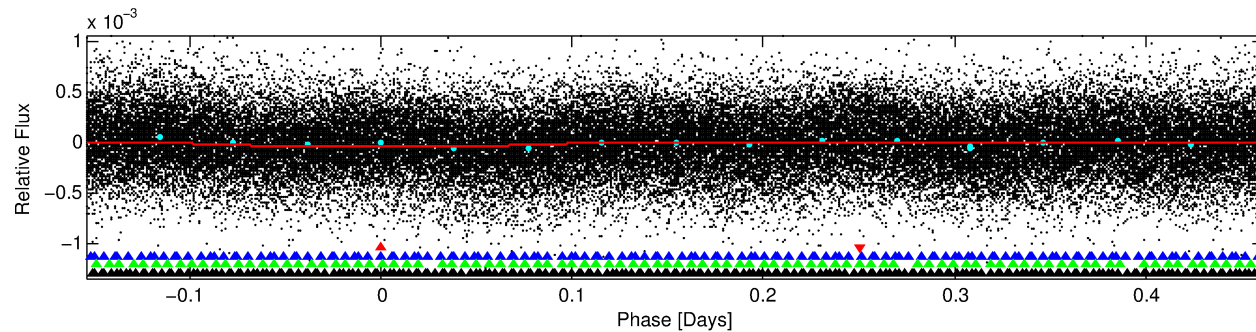
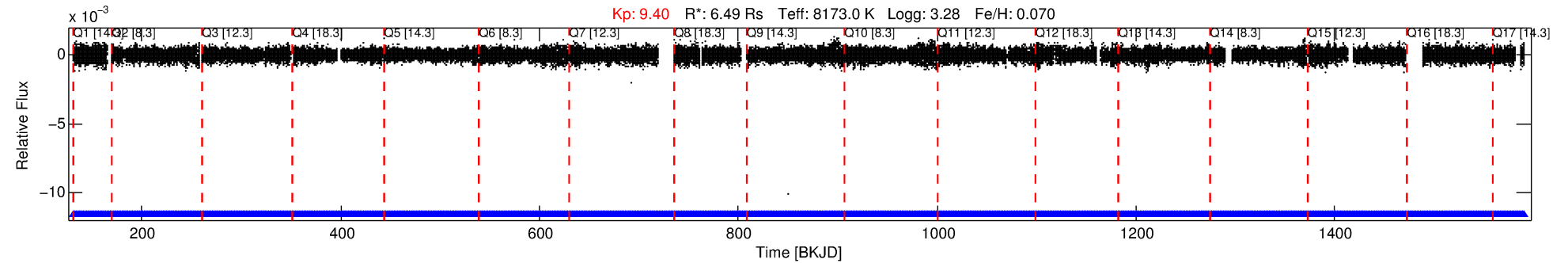
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006289468-01

No Significant Match Found

DV One-Page Summary

KIC: 6289468 Candidate: 1 of 4 Period: 0.616 d



DV Fit Results:

Period = 0.61614 [0.00001] d
Epoch = 131.5189 [0.0031] BKJD
Rp/R* = 0.0051 [0.0031]
a/R* = 1.20 [1.24]
b = 0.24 [13.34]
Seff = N/A
Teq = N/A
Rp = 3.63 [2.60] Re
a = N/A
Ag = N/A
Teffp = N/A

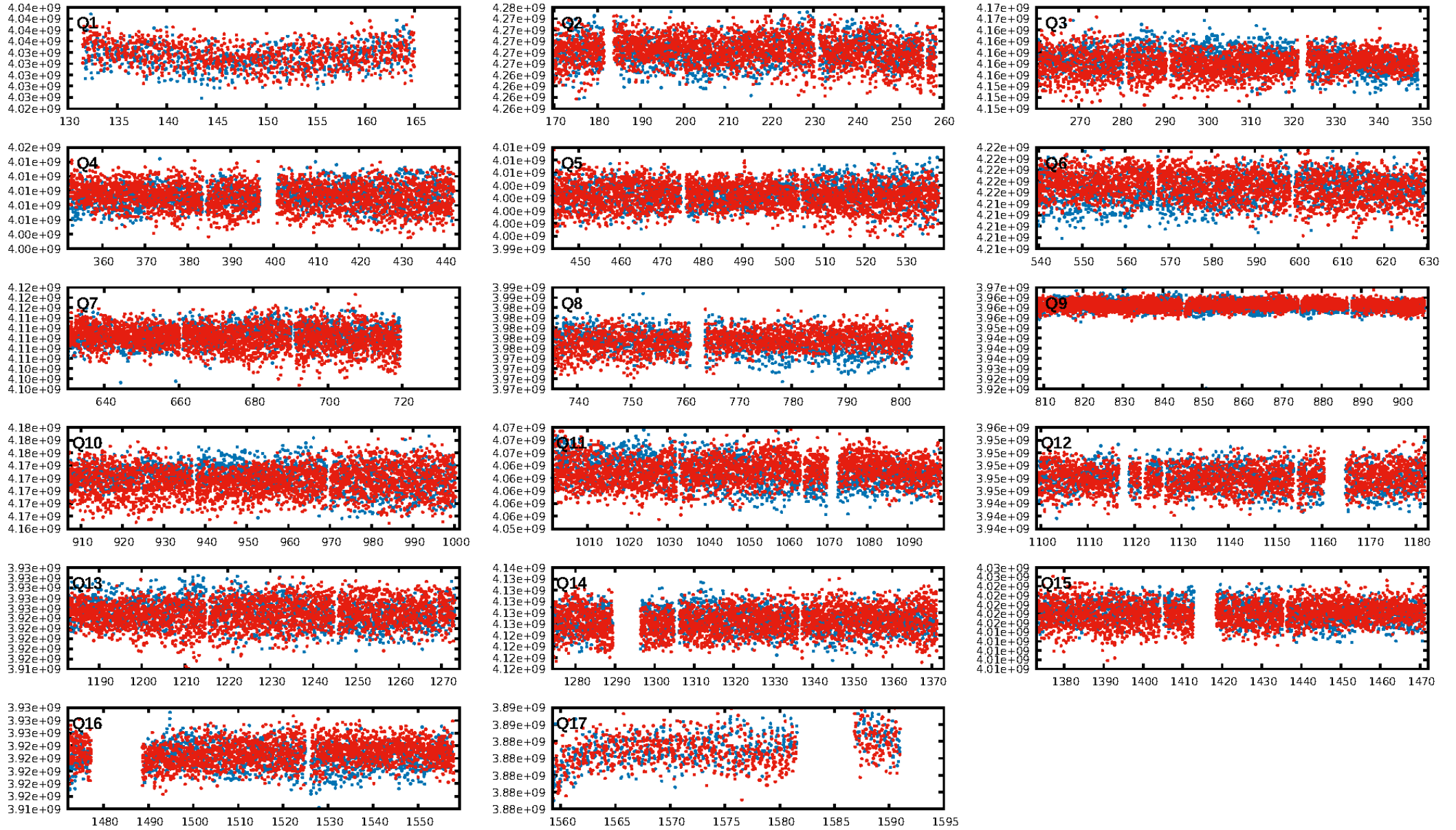
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [27.95σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.20e-05
RollingBand-fgt: 1.00 [2089/2089]
GhostDiagnostic-chr: N/A
Centroid-sig: 1.4%
Centroid-so: 0.756 arcsec [2.36σ]
OotOffset-rm: 5.103 arcsec [2.87σ]
KicOffset-rm: 6.529 arcsec [4.08σ]
OotOffset-st: 4/4/2/5 [15]
KicOffset-st: 4/4/2/5 [15]
DiffImageQuality-fgm: 0.00 [0/15]
DiffImageOverlap-fno: 1.00 [17/17]

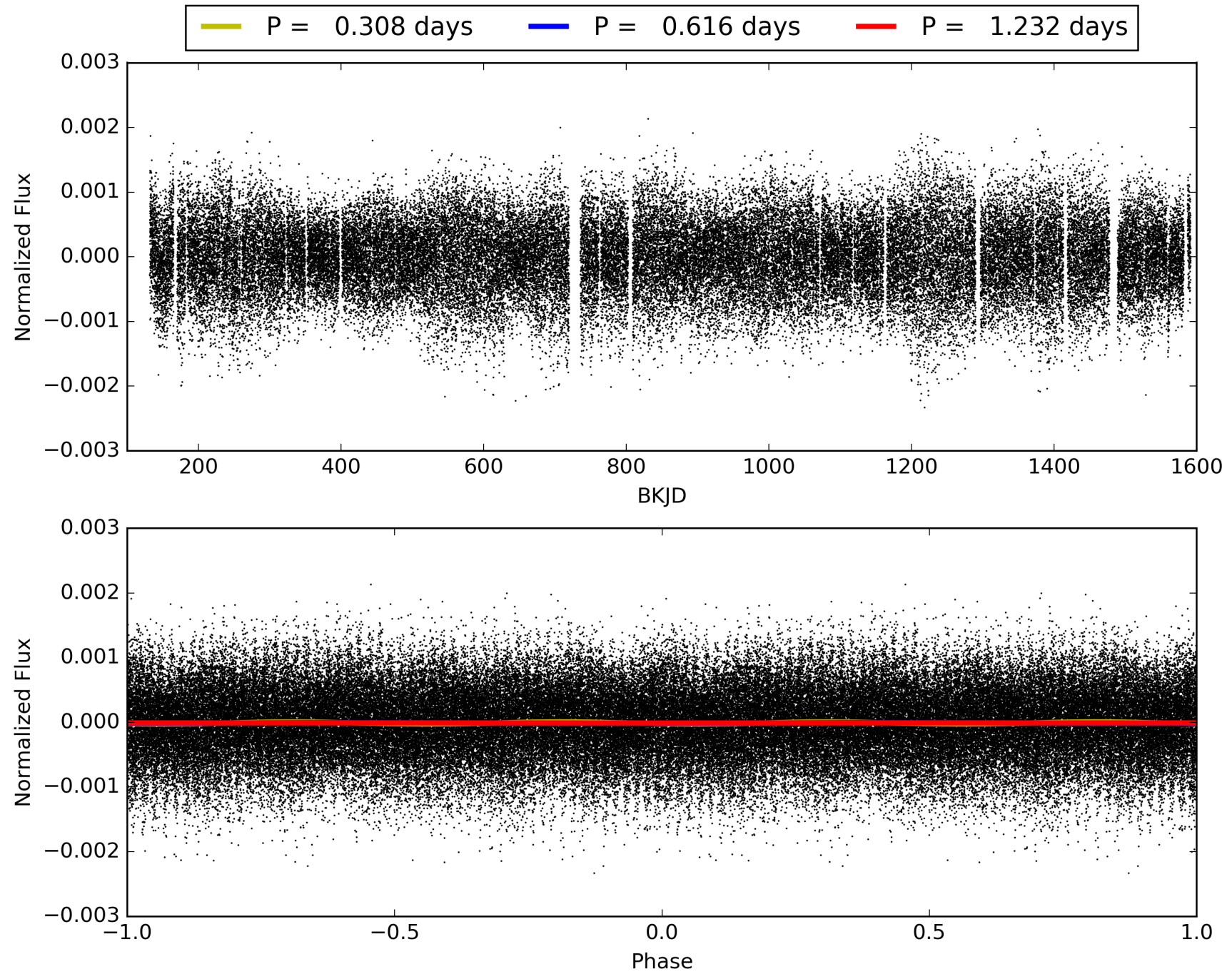
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 12:47:16 Z

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

TCE 006289468-01, PDC Light Curves

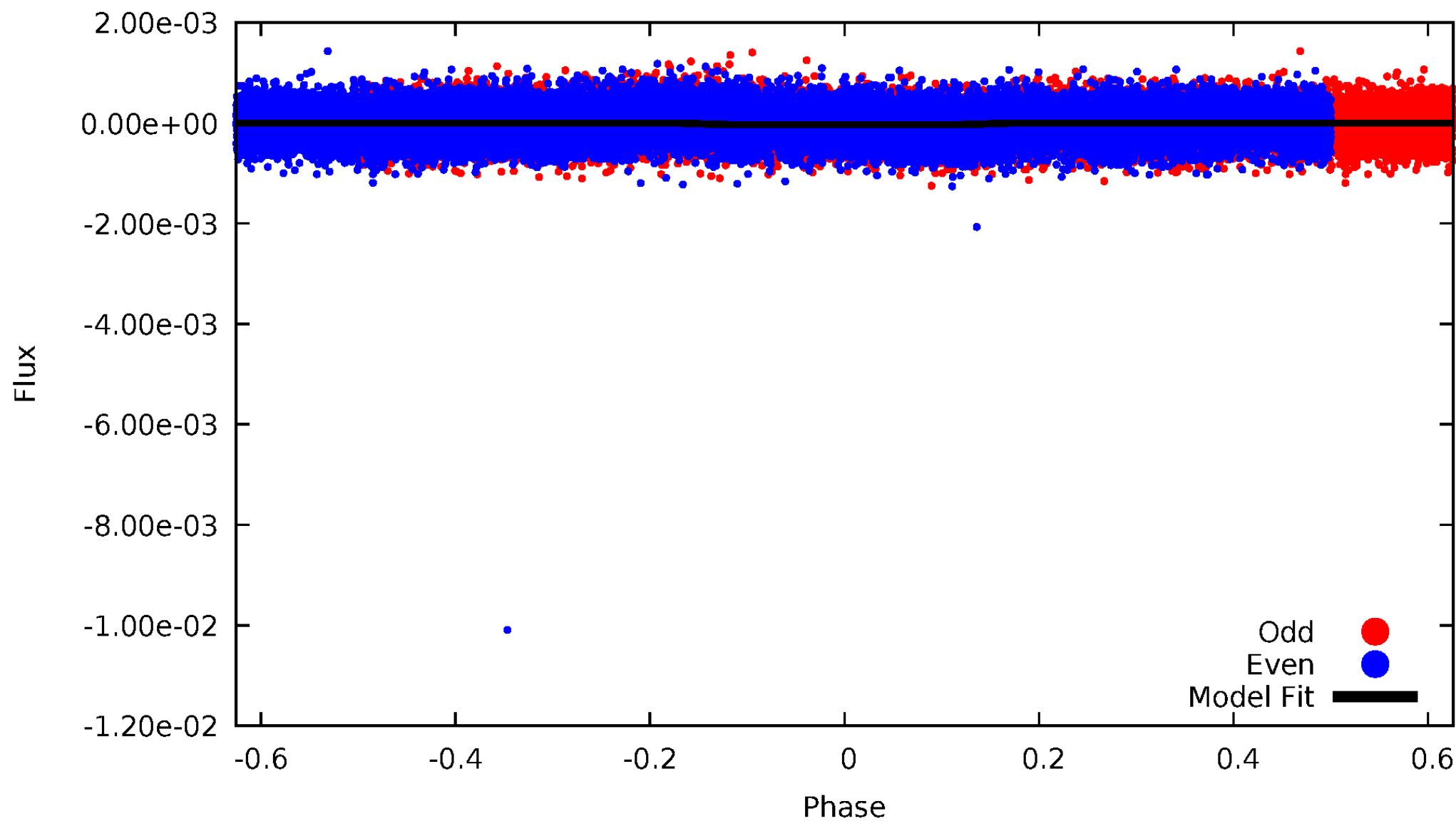


TCE 006289468-01



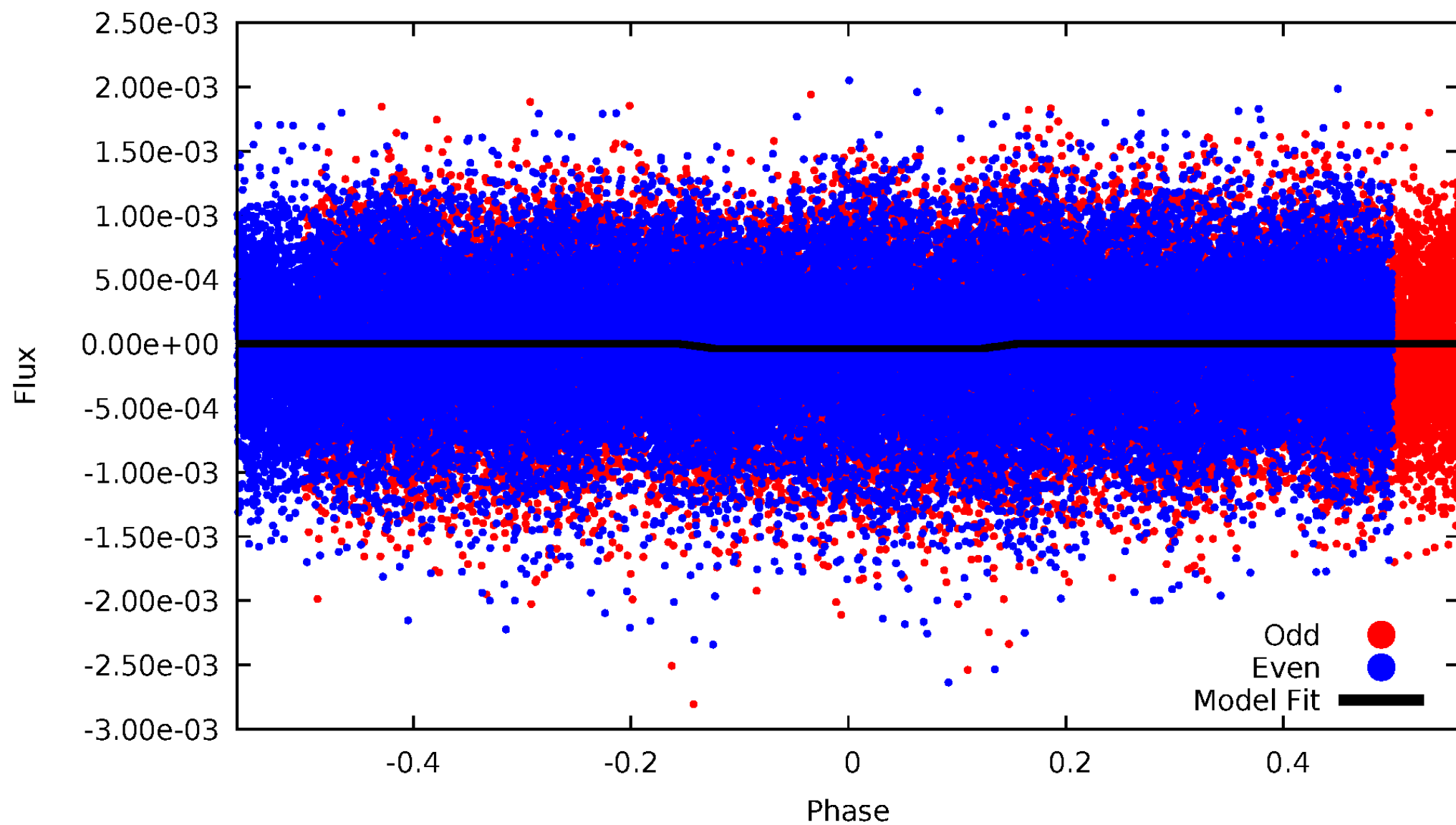
DV Odd/Even

TCE 006289468-01



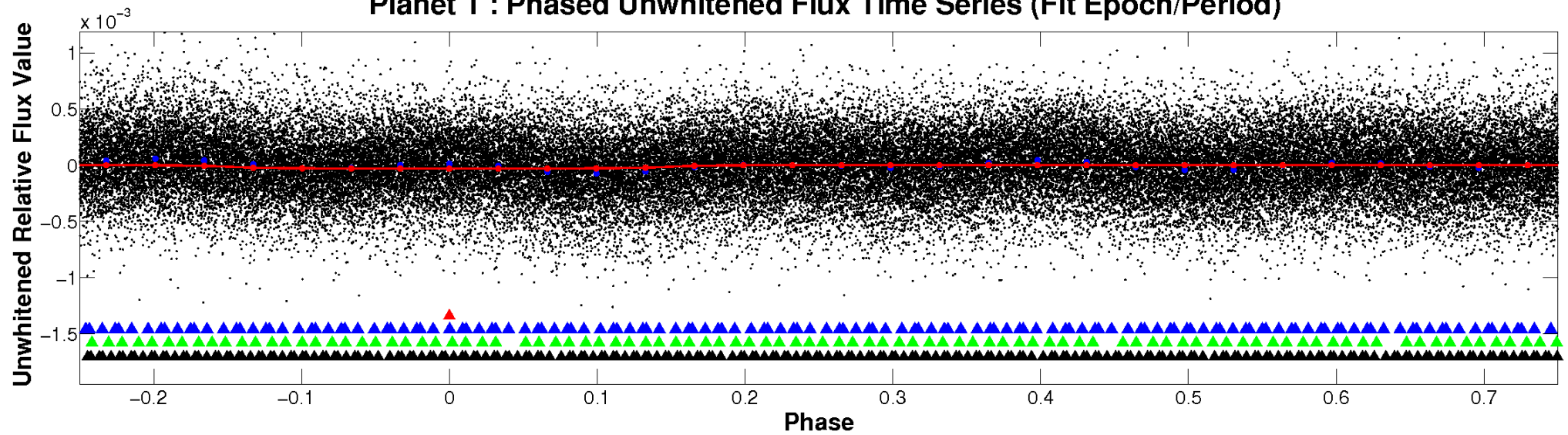
ALT Odd/Even

TCE 006289468-01

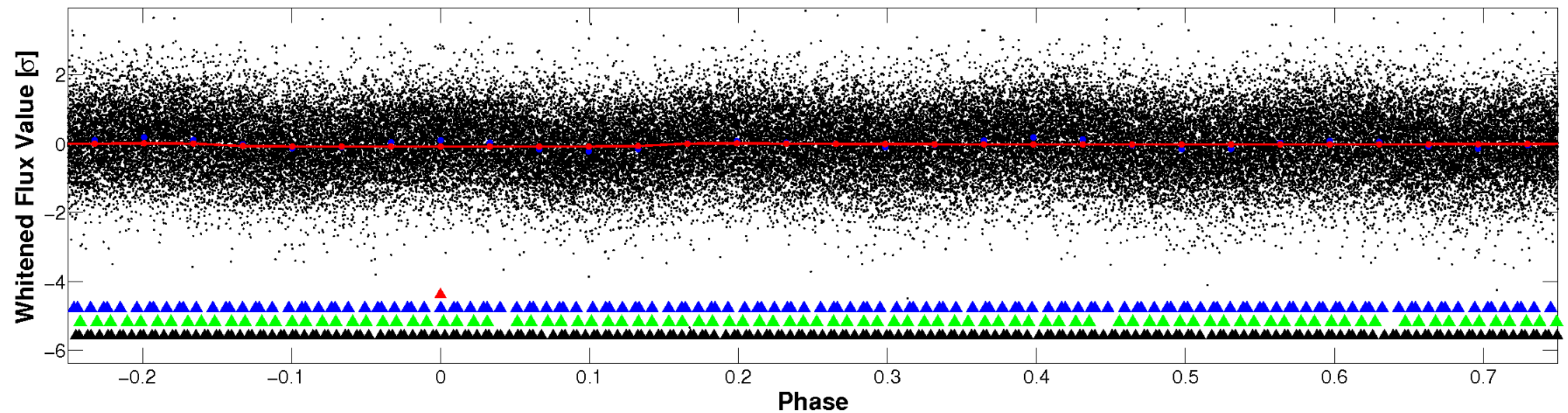


Non-Whitened Vs. Whitened Light Curve

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

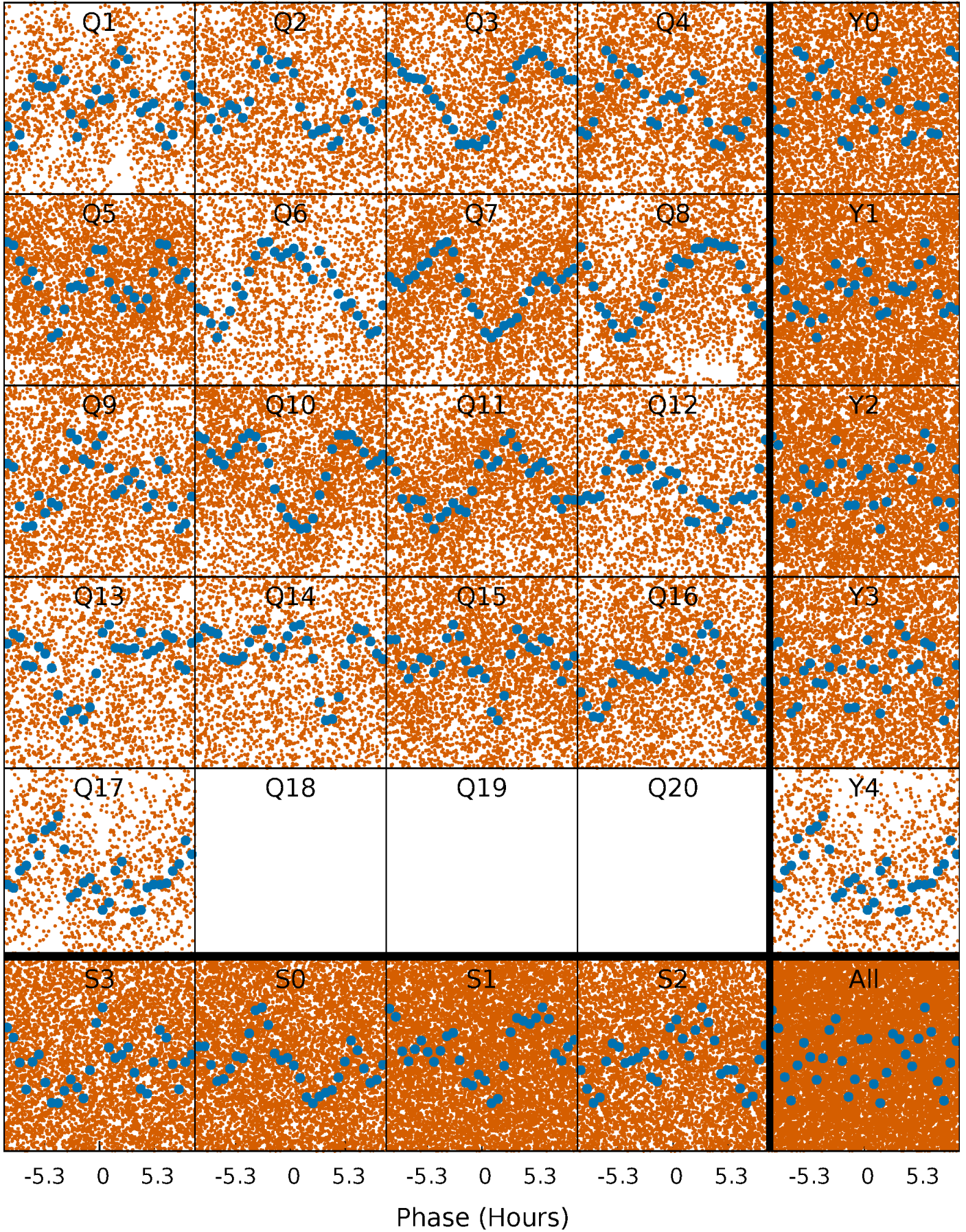


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



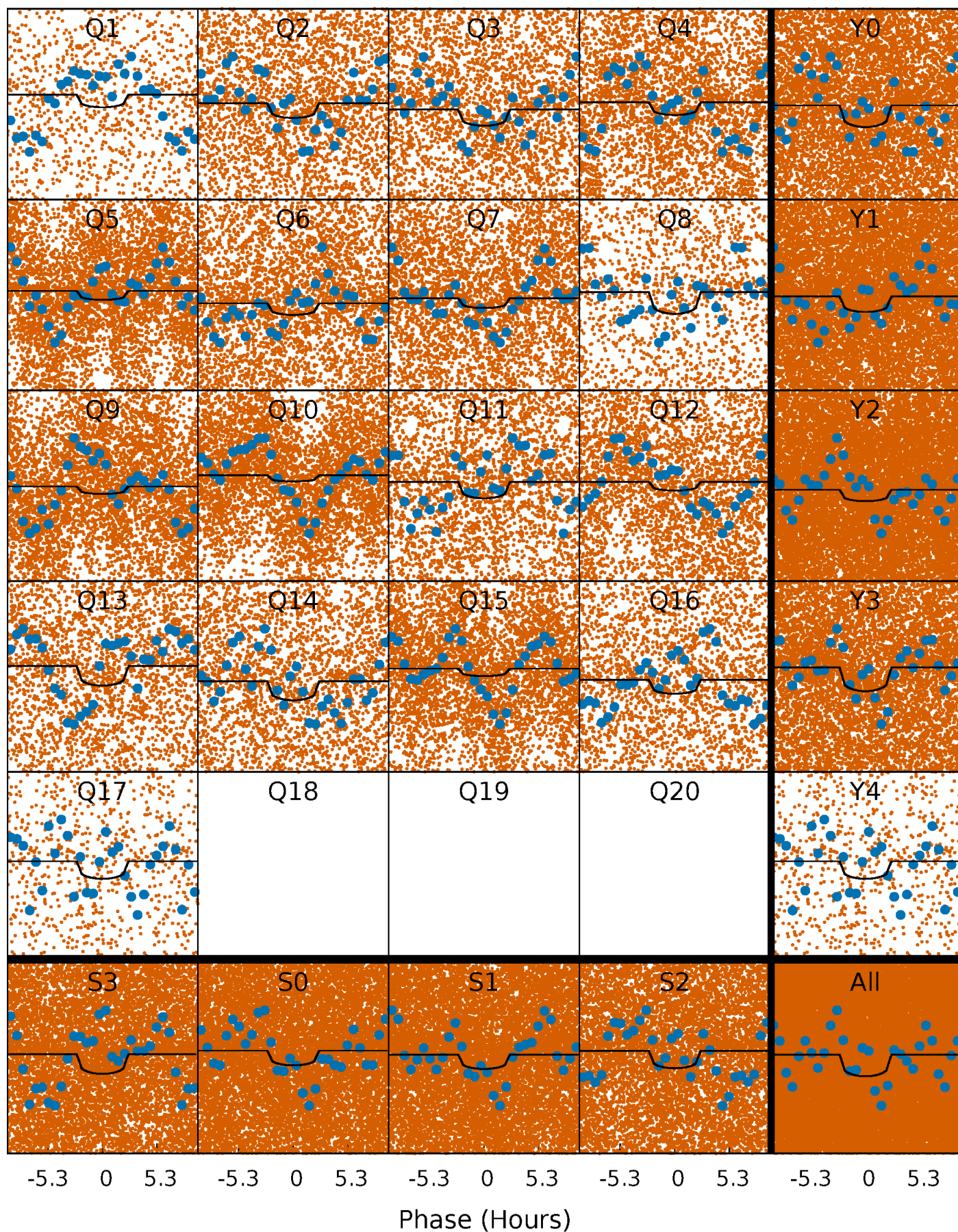
PDC Quarter-Phased Transit Curves

TCE 006289468-01 P= 0.616141 Days $T_0=131.518912$ (BKJD)



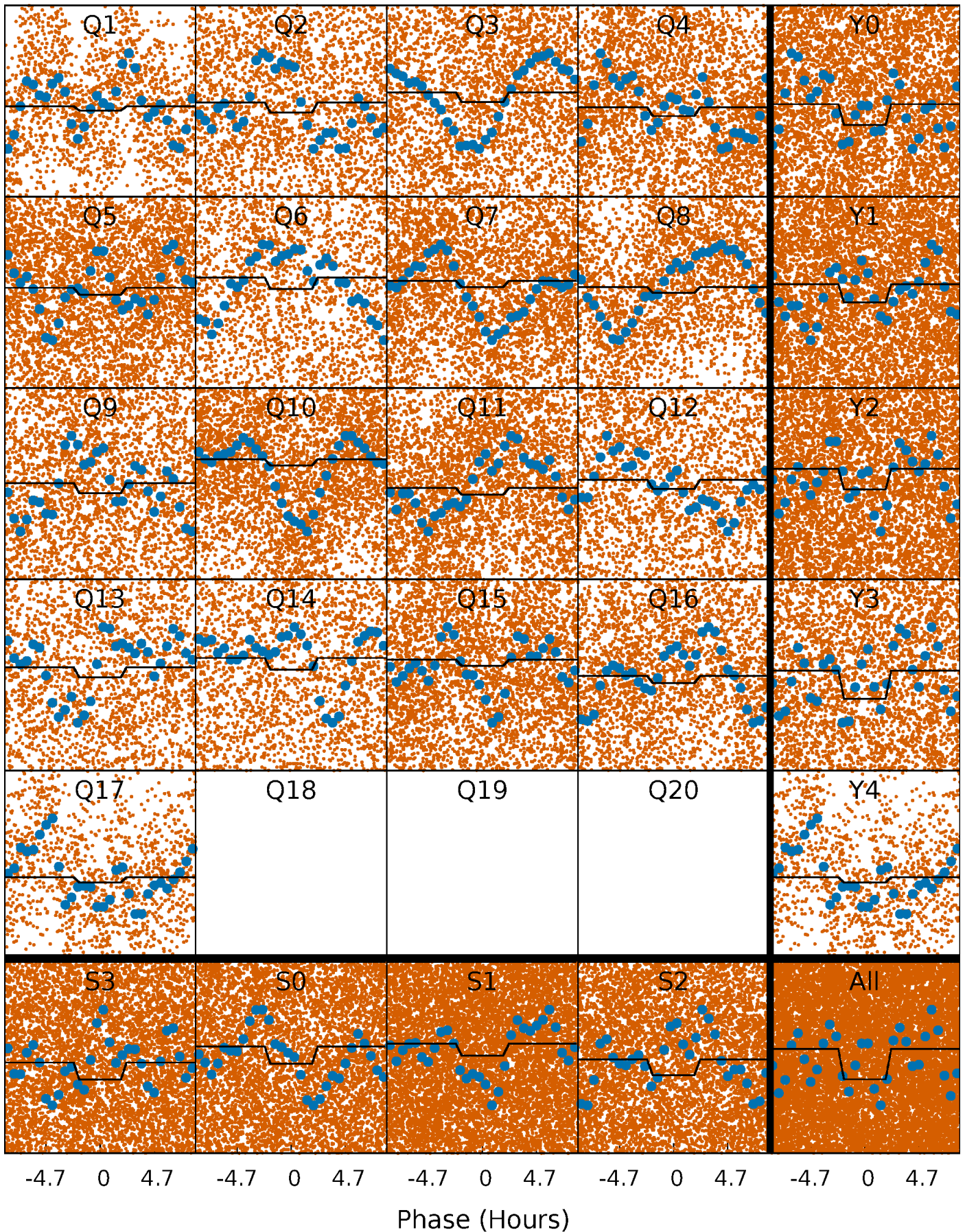
DV Quarter-Phased Transit Curves

TCE 006289468-01 P= 0.616141 Days $T_0=131.518912$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

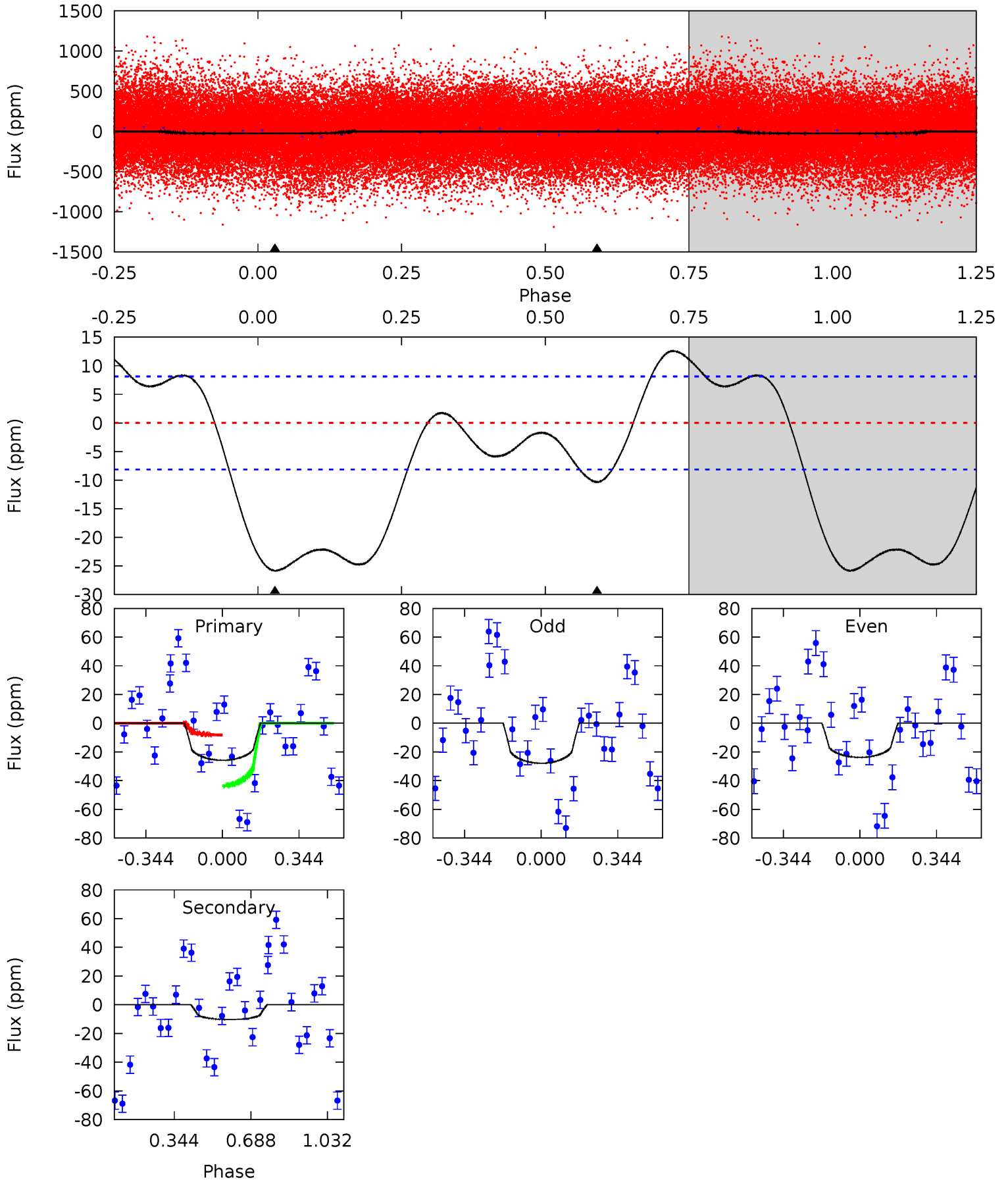
TCE 006289468-01 P= 0.616150 Days $T_0=131.511323$ (BKJD)



DV Model-Shift Uniqueness Test

006289468-01, P = 0.616141 Days, E = 130.902771 Days

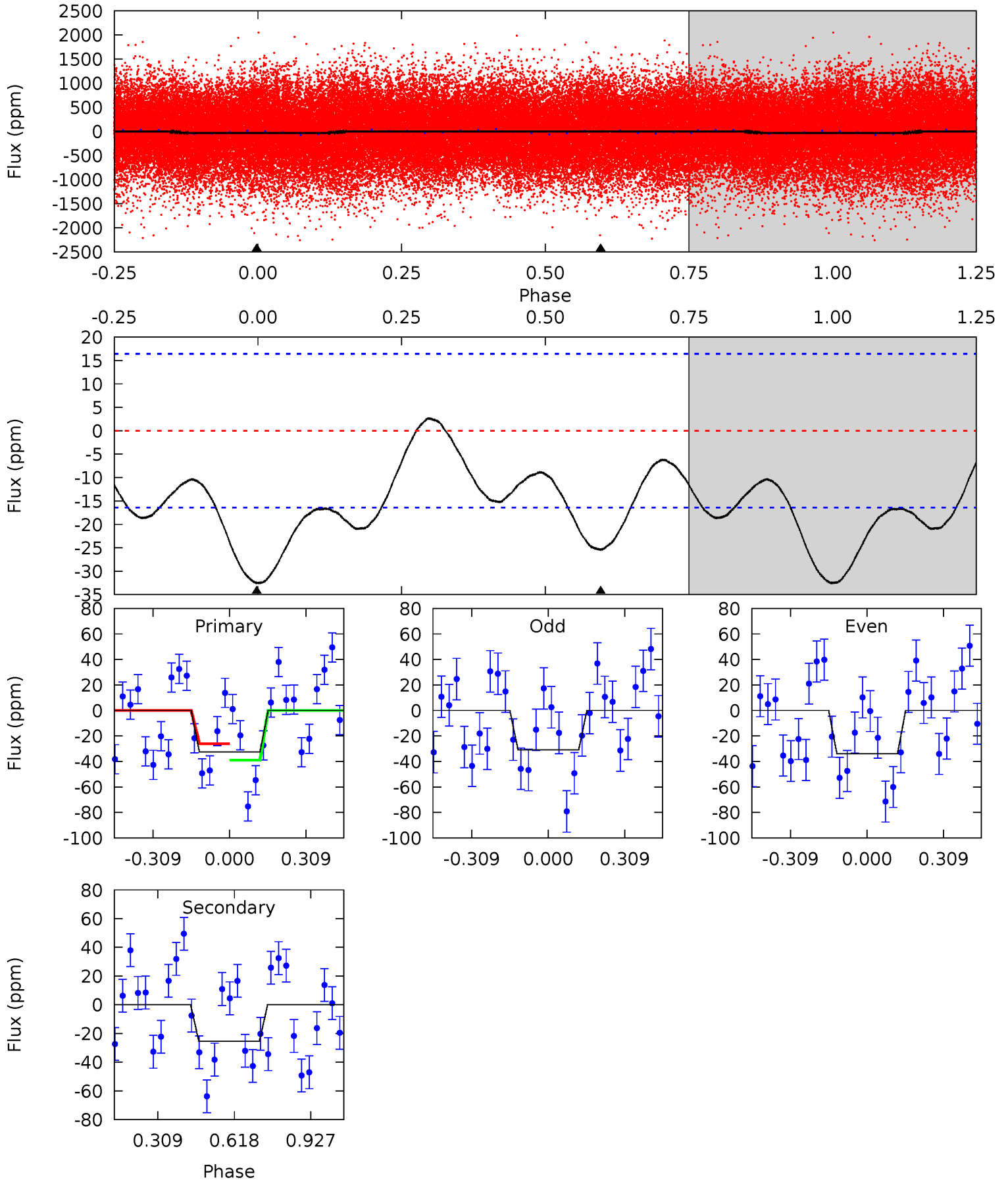
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.7	5.46	0	0	4.30	0.95	1.49	13.7	13.7	5.46	5.46	1.08	1.62	0.33	9.55



Alt Model-Shift Uniqueness Test

006289468-01, P = 0.616150 Days, E = 131.511323 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.57	6.69	0	0	4.32	1.02	0.73	8.57	8.57	6.69	6.69	0.41	1.37	0.08	1.76



Stellar Parameters For KIC 006289468

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8173^{+145}_{-178}	$3.281^{+0.307}_{-0.102}$	$0.070^{+0.150}_{-0.050}$	$6.492^{+1.205}_{-2.410}$	$2.933^{+0.185}_{-0.402}$	$0.015^{+0.032}_{-0.005}$
	+2%/-2%	+9%/-3%	+214%/-71%	+19%/-37%	+6%/-14%	+210%/-31%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 006289468-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-10 ± 2	$3.57^{+2.04}_{-1.86}$	8864^{+530}_{-879}	-5469^{+13232}_{-1272}	$0.178^{+0.632}_{-0.108}$
Alt.	-25 ± 4	$4.19^{+2.20}_{-1.98}$	8868^{+497}_{-806}	3790^{+5818}_{-9842}	$0.322^{+0.860}_{-0.178}$

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 $A_{obs} \gg 1.0$

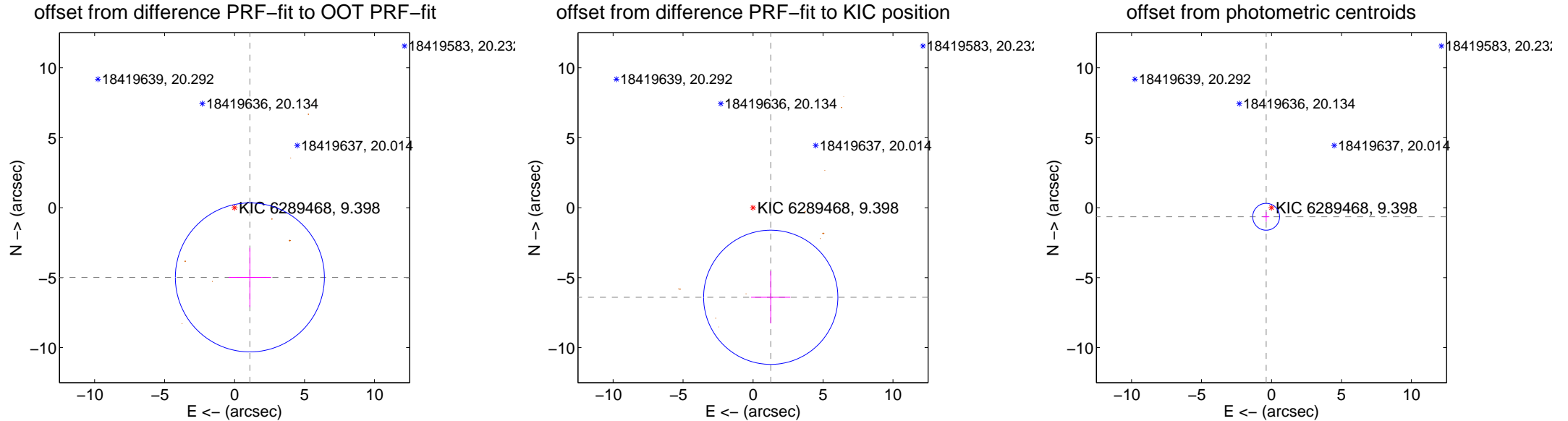
DV Centroid Data

Supplemental centroid analysis for 006289468-01. **Kepler magnitude: 9.40.** Transit SNR 11.98

There are 0 quarters with good PRF difference image offsets

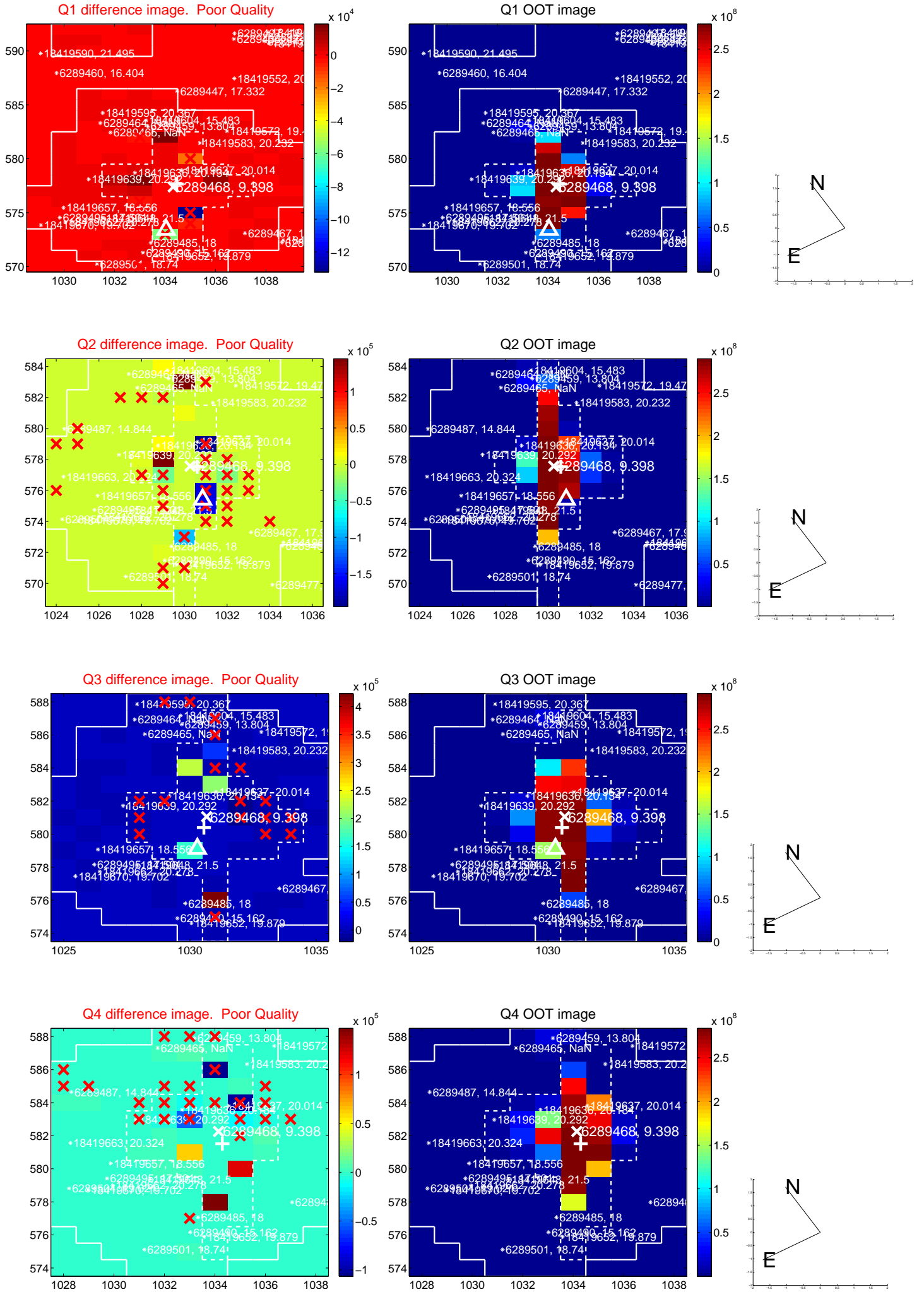
The direct PRF centroid is offset from the target star catalog position by about 1.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.103 ± 1.775	2.87	-1.093 ± 1.515	-4.985 ± 2.111
PRF-fit source offset from KIC position	6.529 ± 1.599	4.08	-1.264 ± 1.405	-6.405 ± 1.864
photometric centroid source offset	0.76 ± 0.32	2.36	0.38 ± 0.23	-0.65 ± 0.35

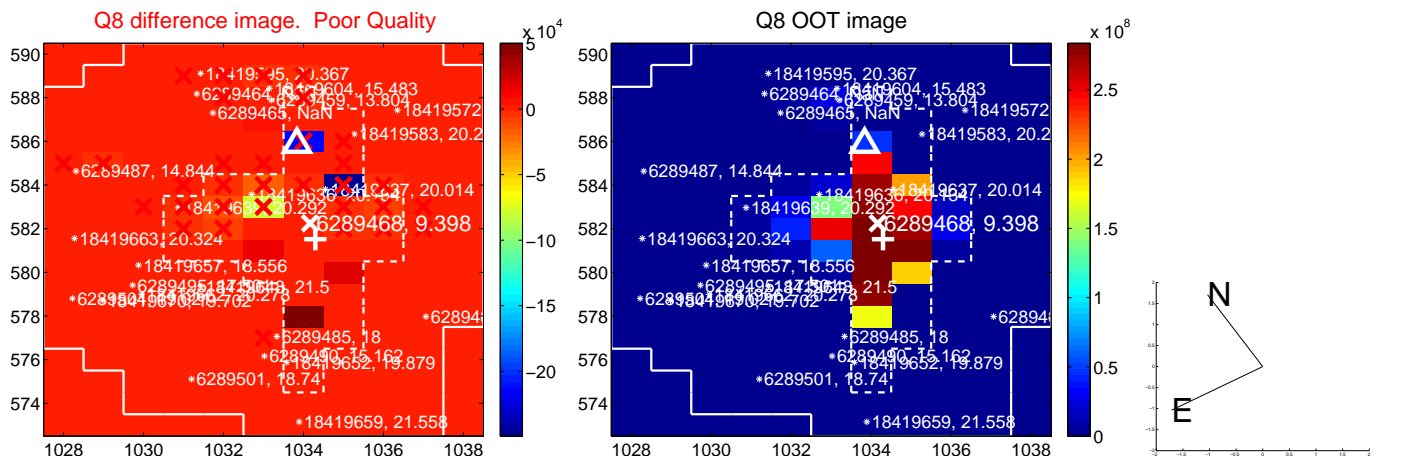
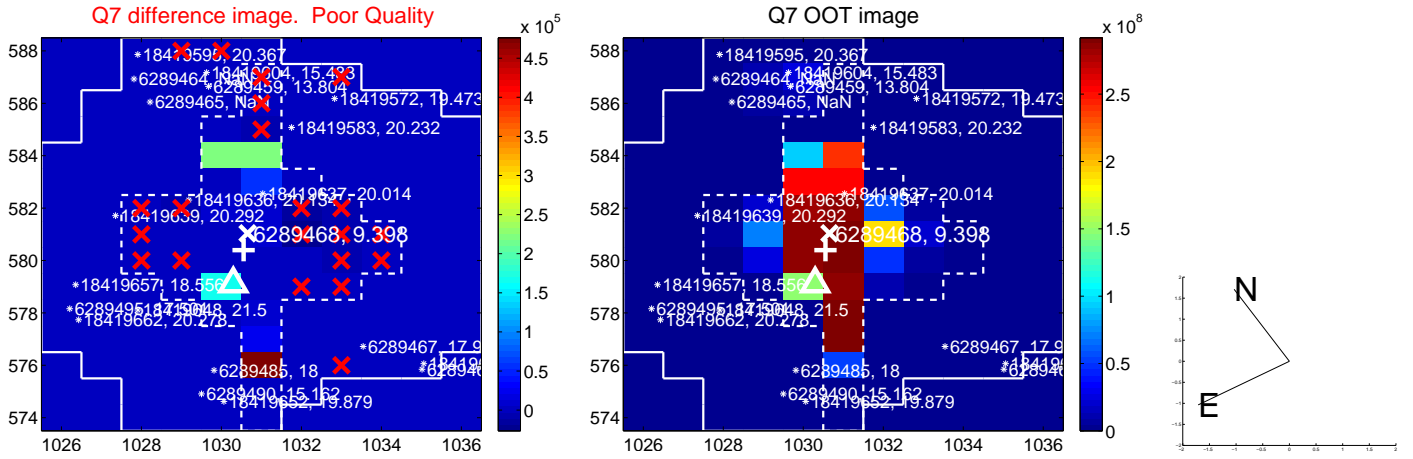
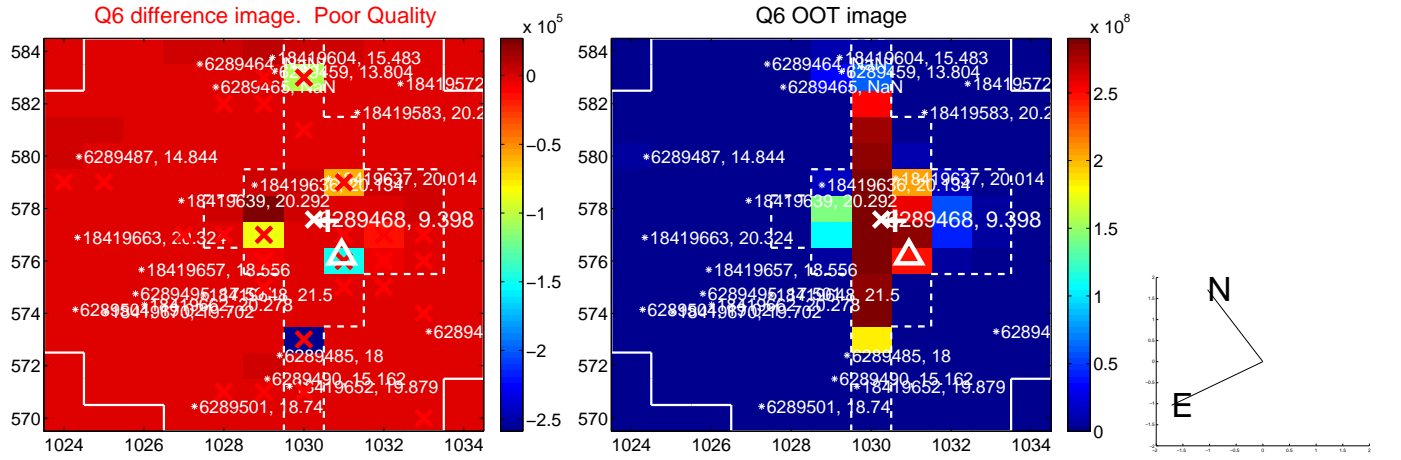
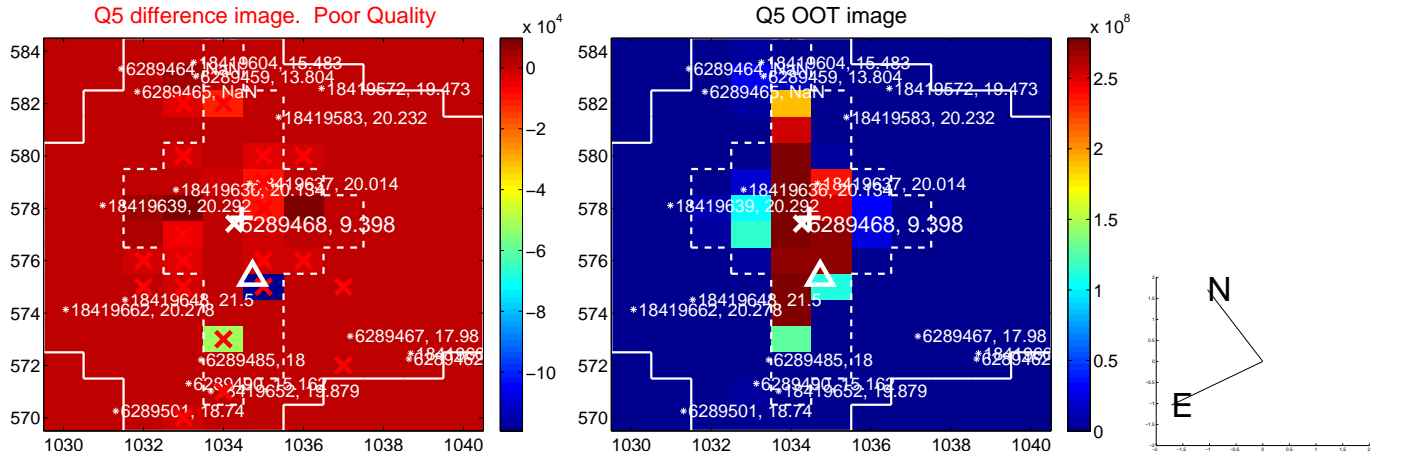


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

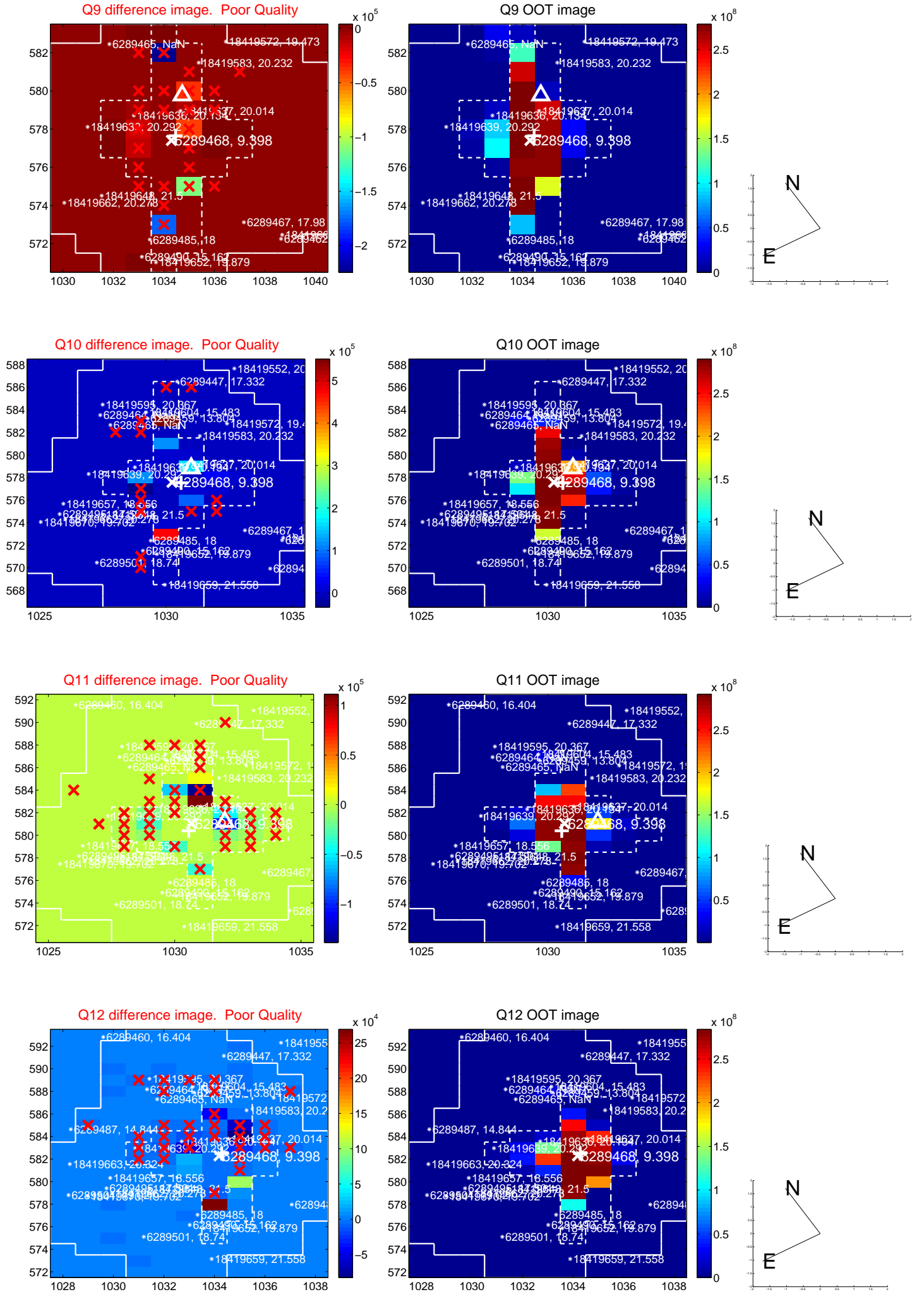
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



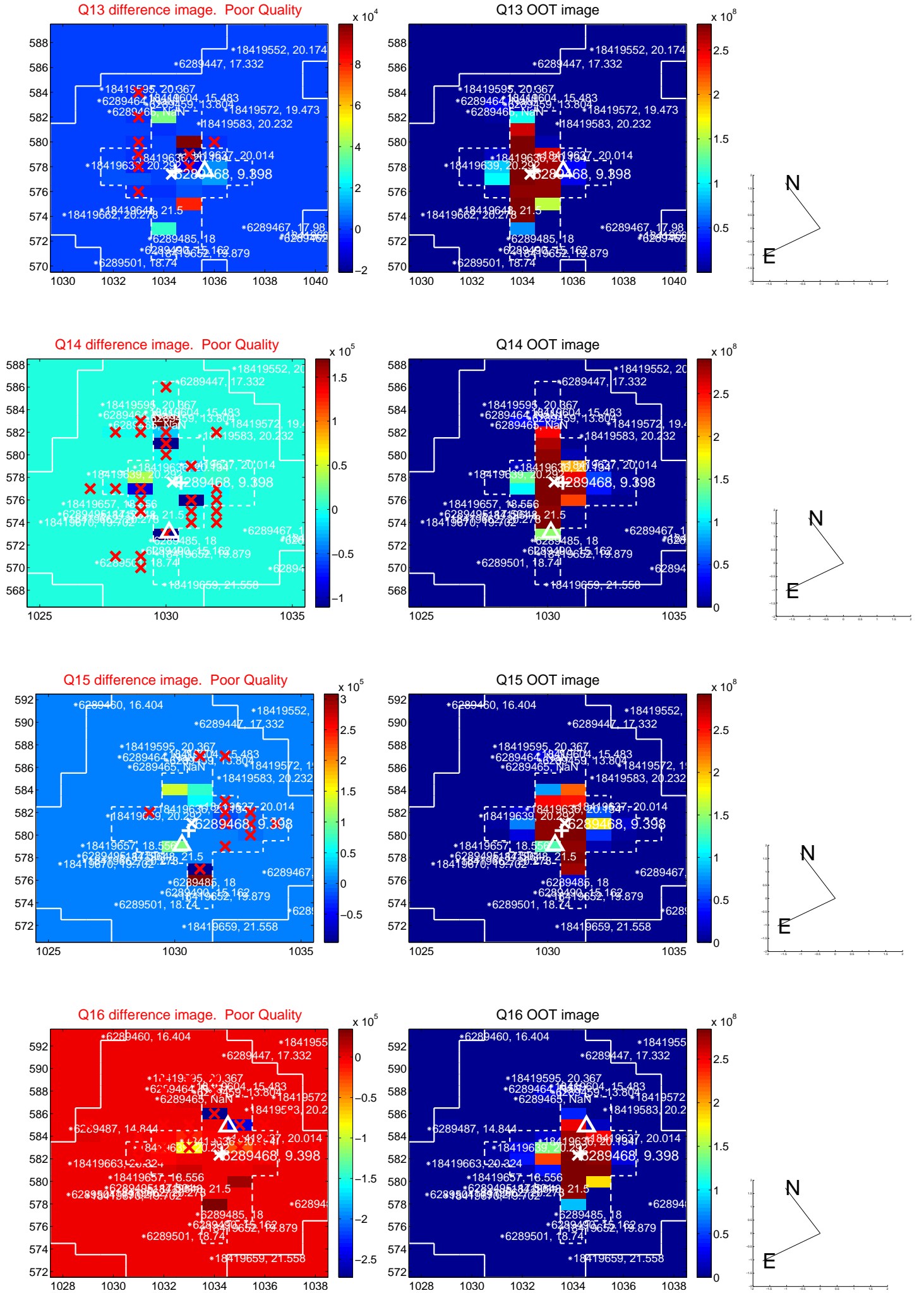
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



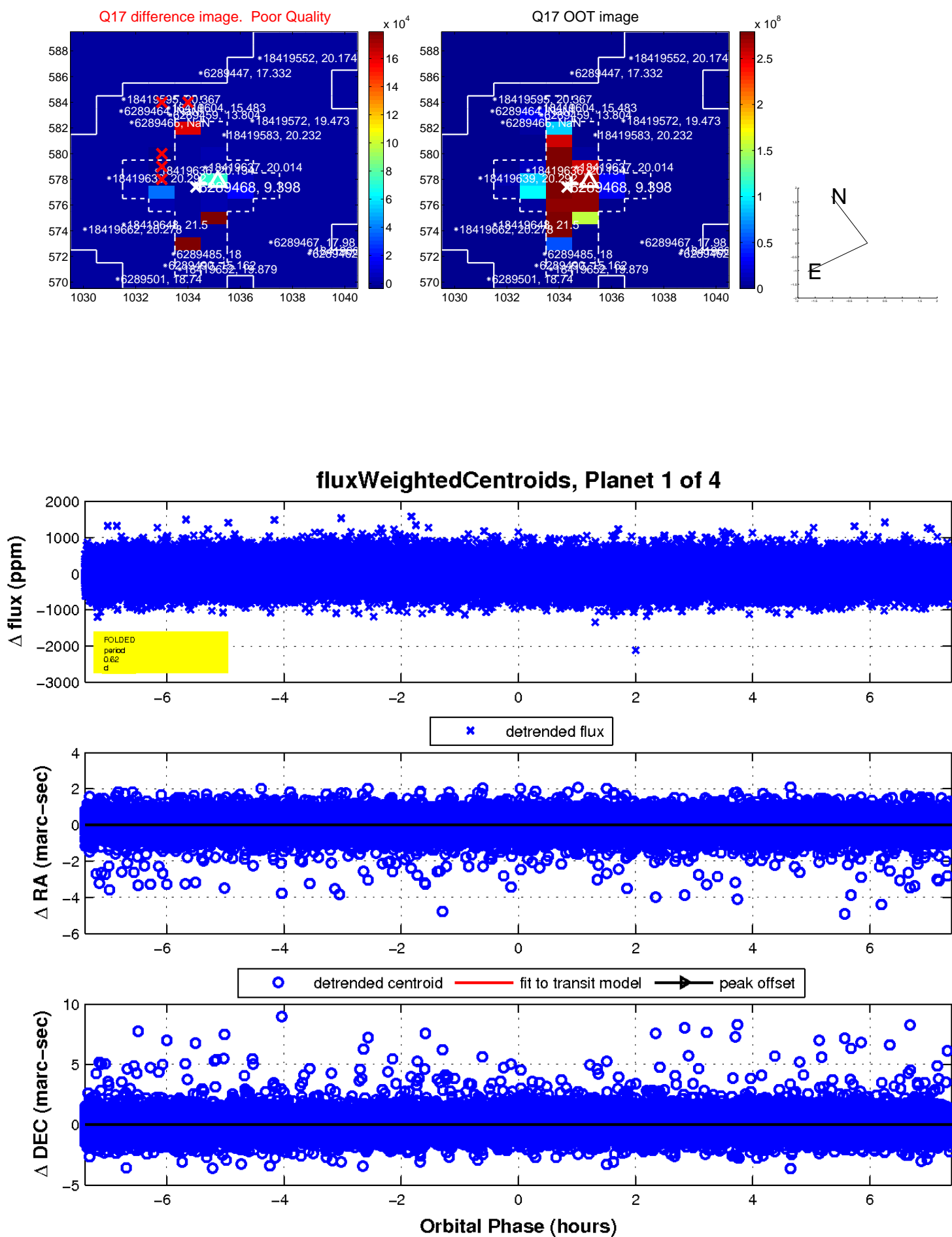
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

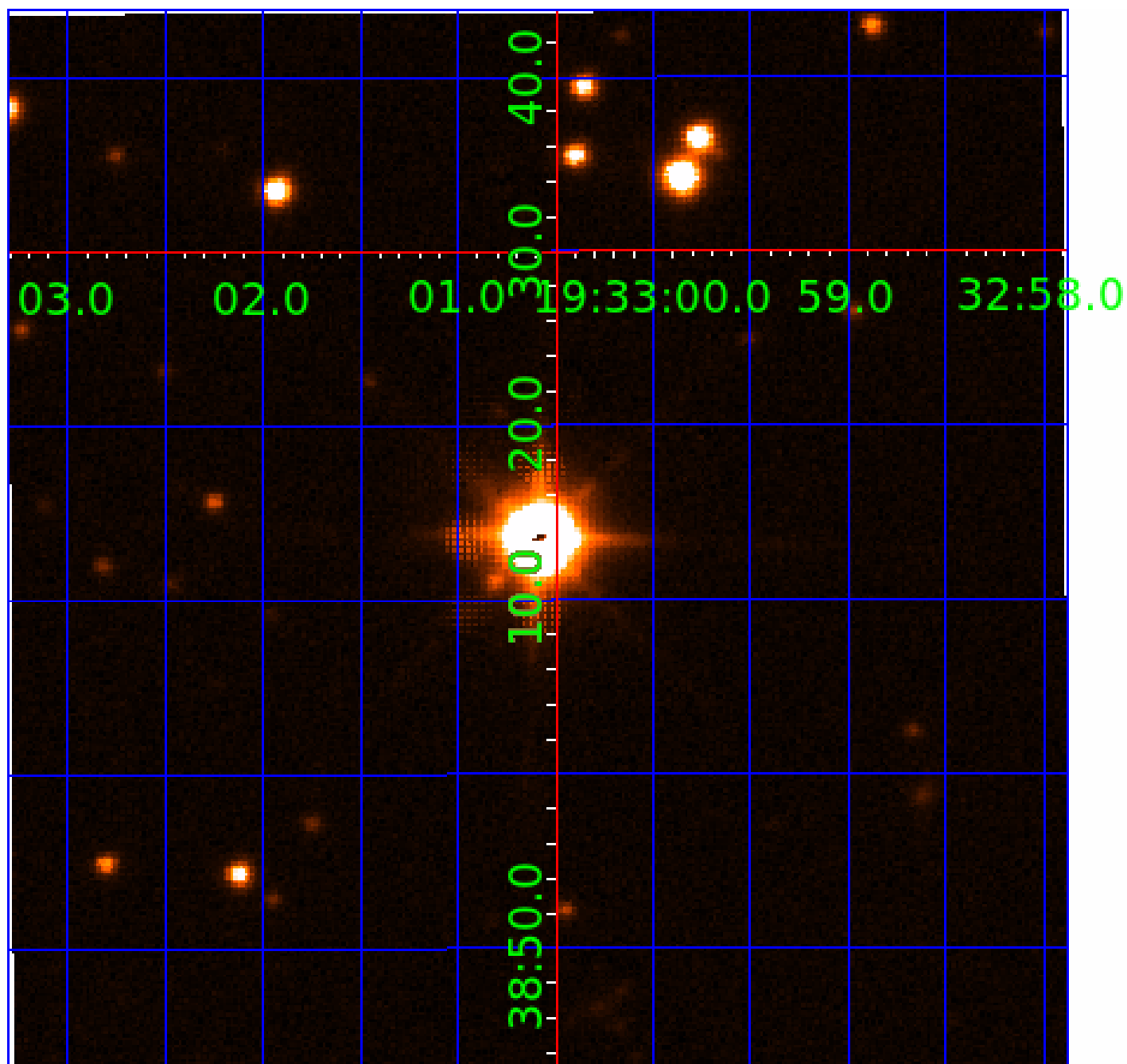


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006289468

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})
006289468-01	OBS	No	0.616141	131.518913	30.3	4.625	11.6	12.0	6.49	8173	3.63	0.00
006289468-02	OBS	No	10.442974	134.346905	877.1	0.539	13.4	19.4	6.49	8173	23.03	9395.22
006289468-03	OBS	No	15.154561	143.986229	549.9	2.558	9.9	20.6	6.49	8173	16.01	5718.49
006289468-04	OBS	No	6.433770	133.885937	277.6	1.887	12.0	13.9	6.49	8173	11.20	17921.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006289468-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
006289468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

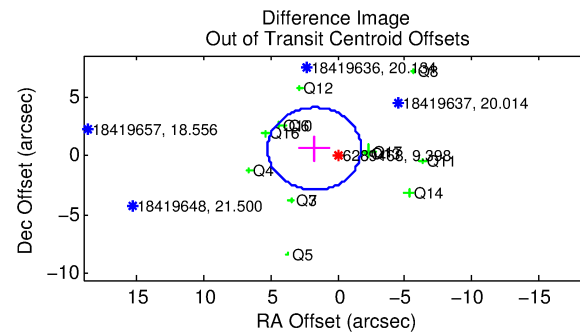
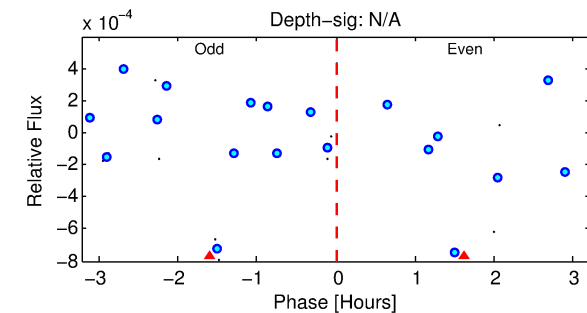
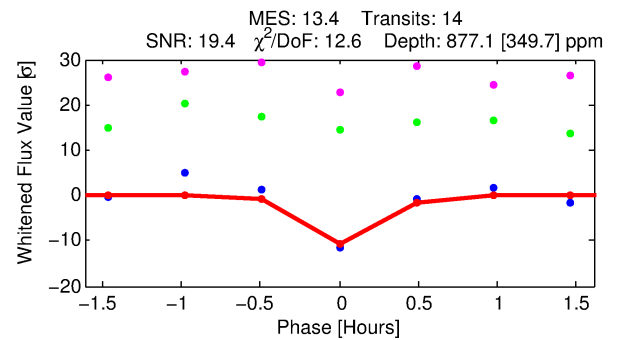
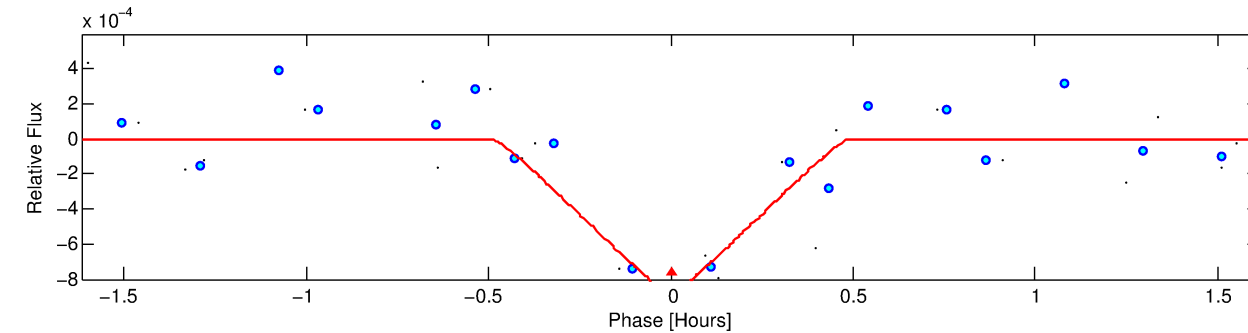
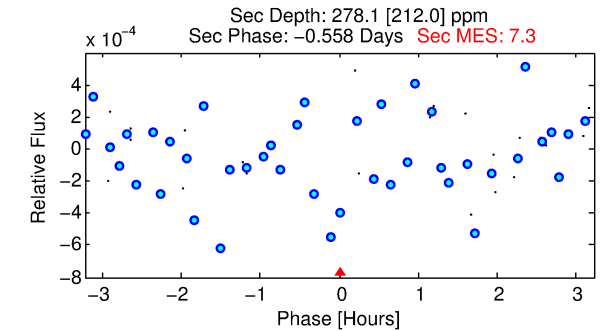
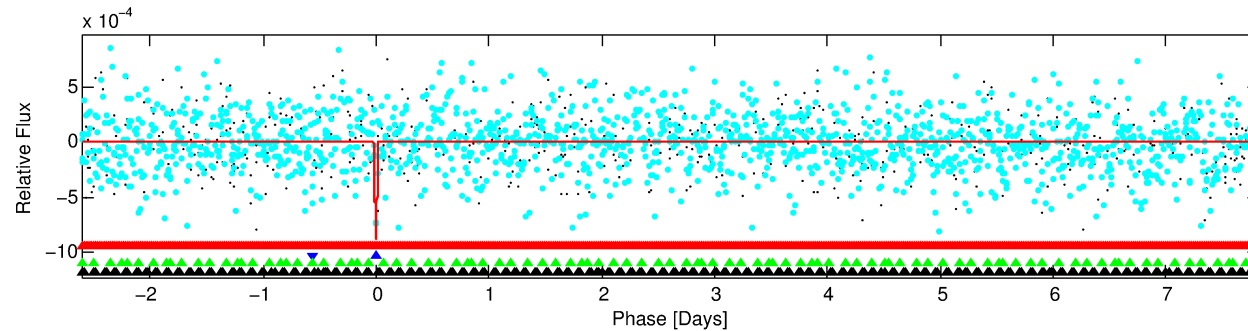
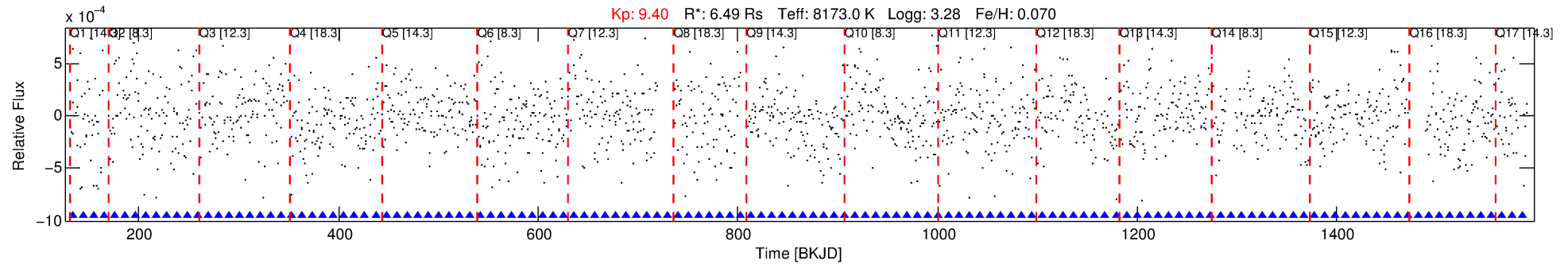
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006289468-02

No Significant Match Found

DV One-Page Summary

KIC: 6289468 Candidate: 2 of 4 Period: 10.443 d



DV Fit Results:

Period = 10.44297 [0.00005] d
Epoch = 134.3469 [0.0029] BKJD
Rp/R* = 0.0325 [0.0480]
a/R* = 84.80 [691.92]
b = 0.86 [2.51]
Seff = 9395.22 [5067.55]
Teq = 2510 [339] K
Rp = 23.03 [35.03] Re
a = 0.1339 [0.0458] AU
Ag = 5.17 [16.00] [0.26] σ
Teffp = 5854 [4461] K [0.75] σ

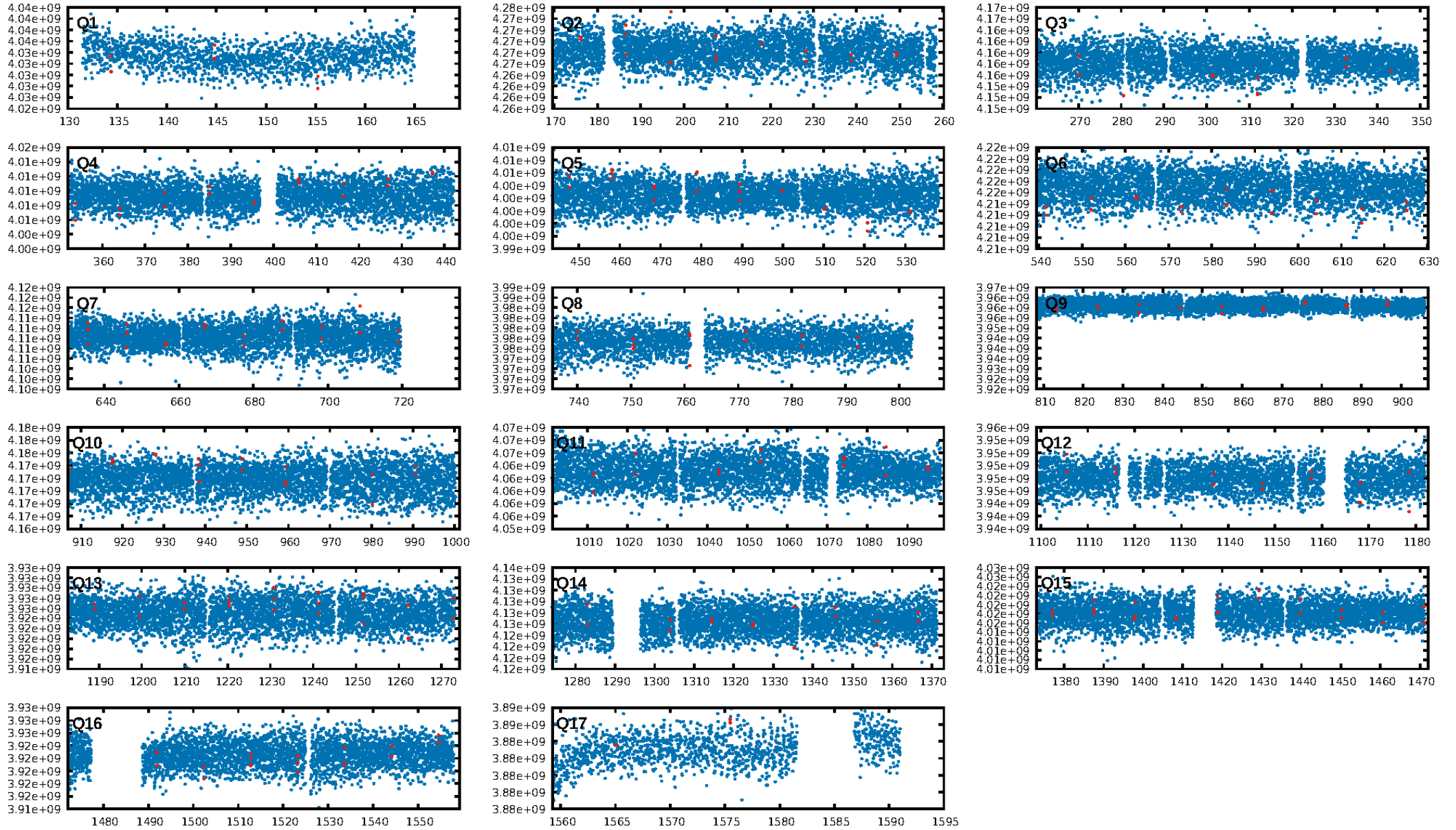
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [49.03] σ
LongPeriod-sig: 100.0% [43.26] σ
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 7.64e-09
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: N/A
Centroid-sig: 36.6%
Centroid-so: 0.165 arcsec [1.57] σ
OotOffset-rm: 1.849 arcsec [1.59] σ
OotOffset-st: 3/3/4/3 [13]
KicOffset-rm: 1.840 arcsec [1.54] σ
KicOffset-st: 3/3/4/3 [13]
DiffImageQuality-fgm: 0.00 [0/13]
DiffImageOverlap-fno: 0.00 [0/16]

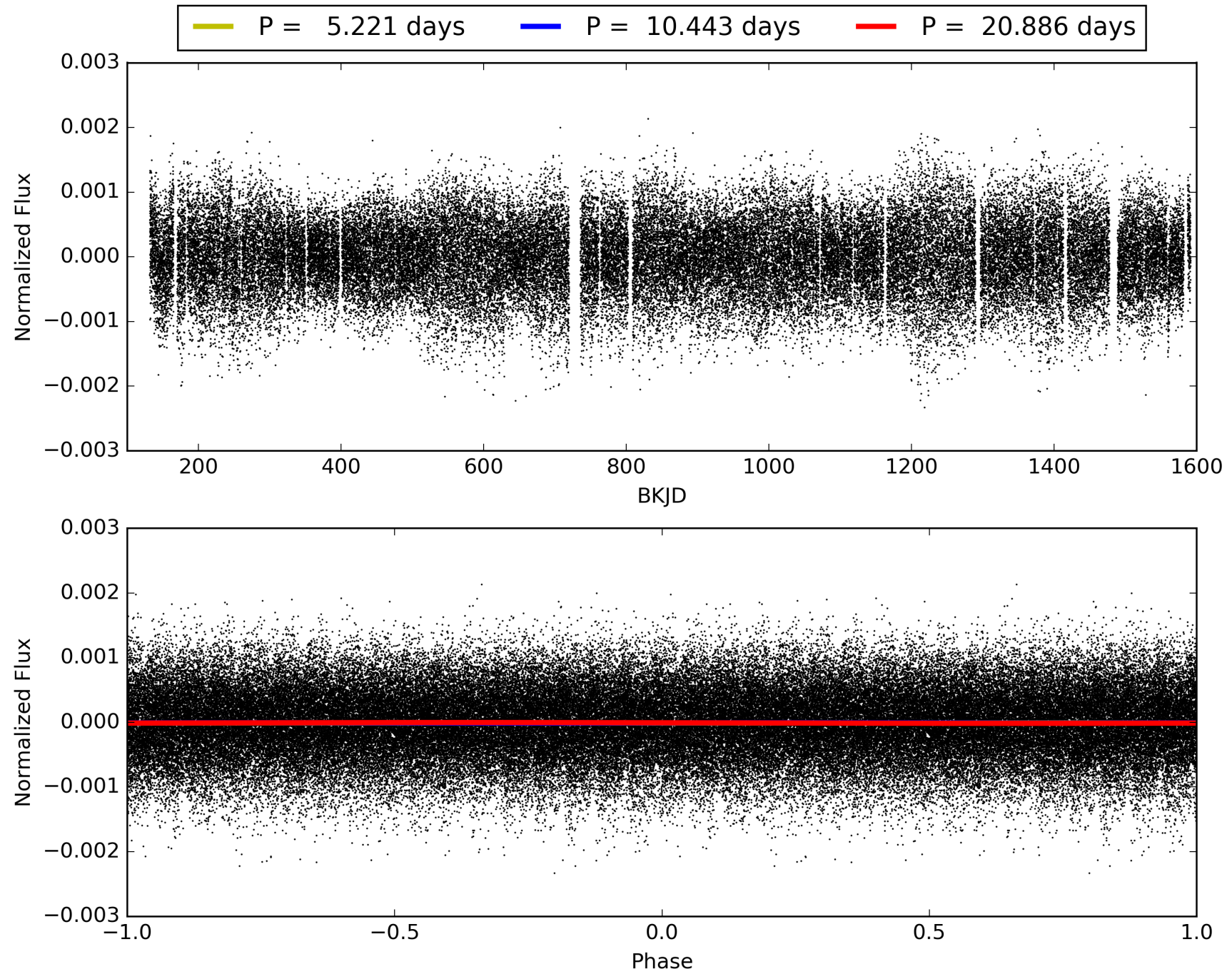
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 12:47:27 Z

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

TCE 006289468-02, PDC Light Curves

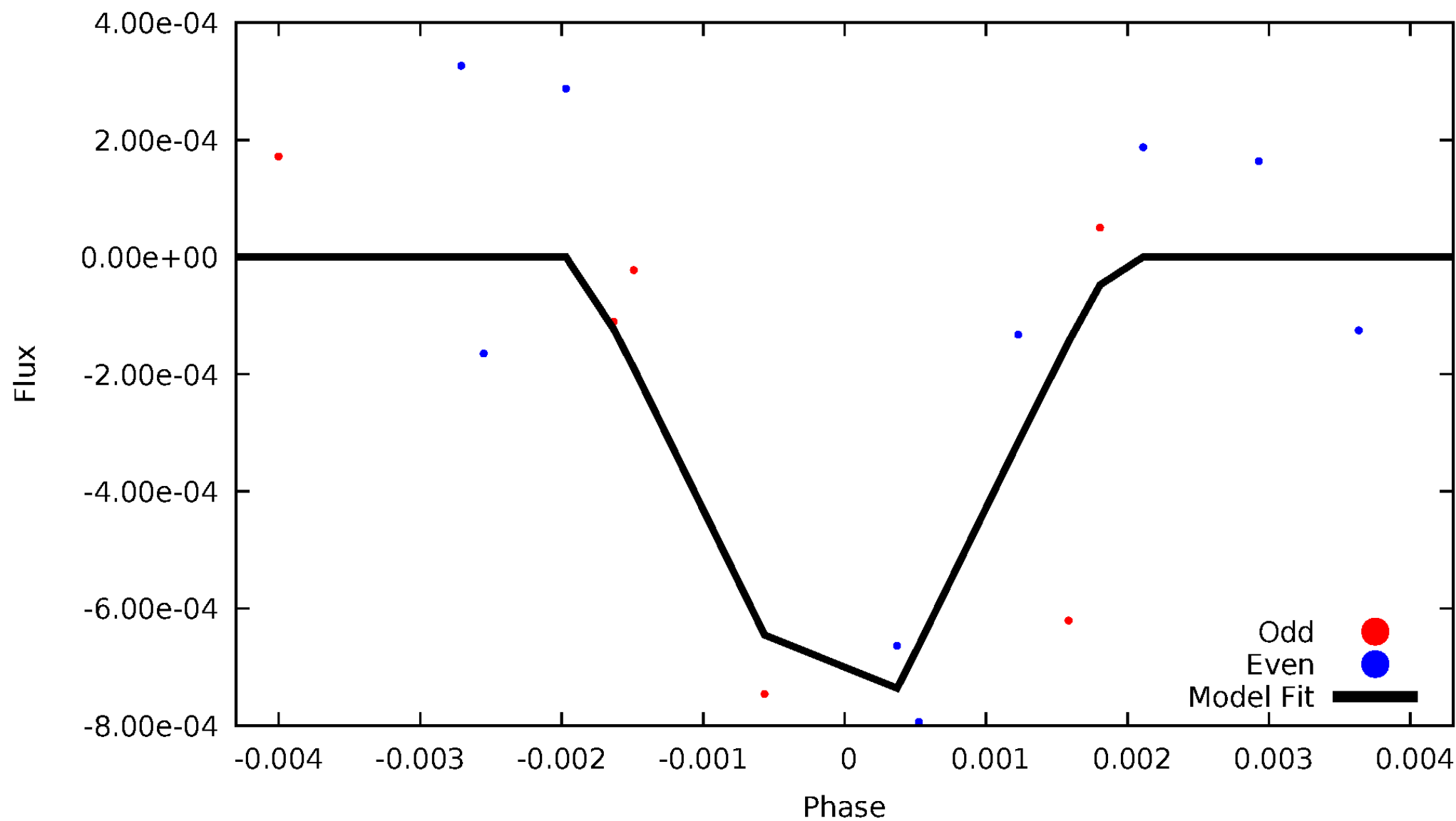


TCE 006289468-02



DV Odd/Even

TCE 006289468-02

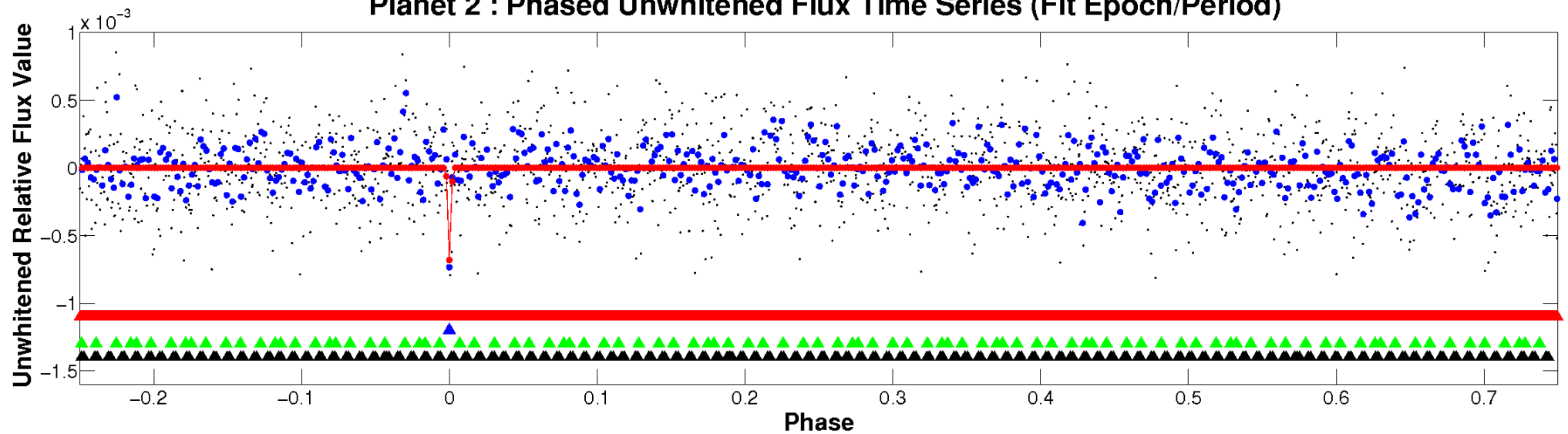


ALT Odd/Even

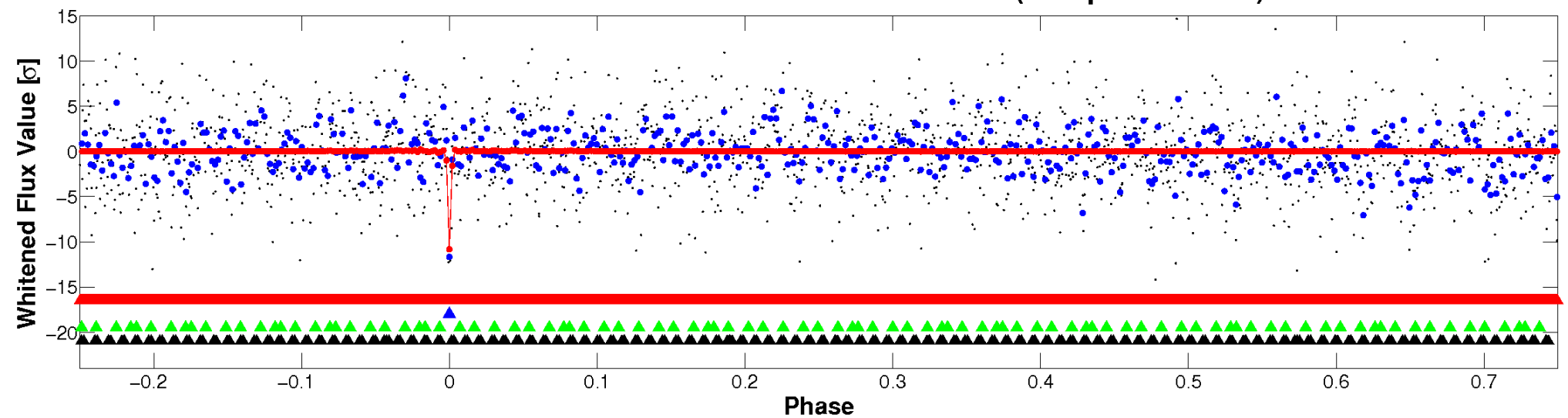
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

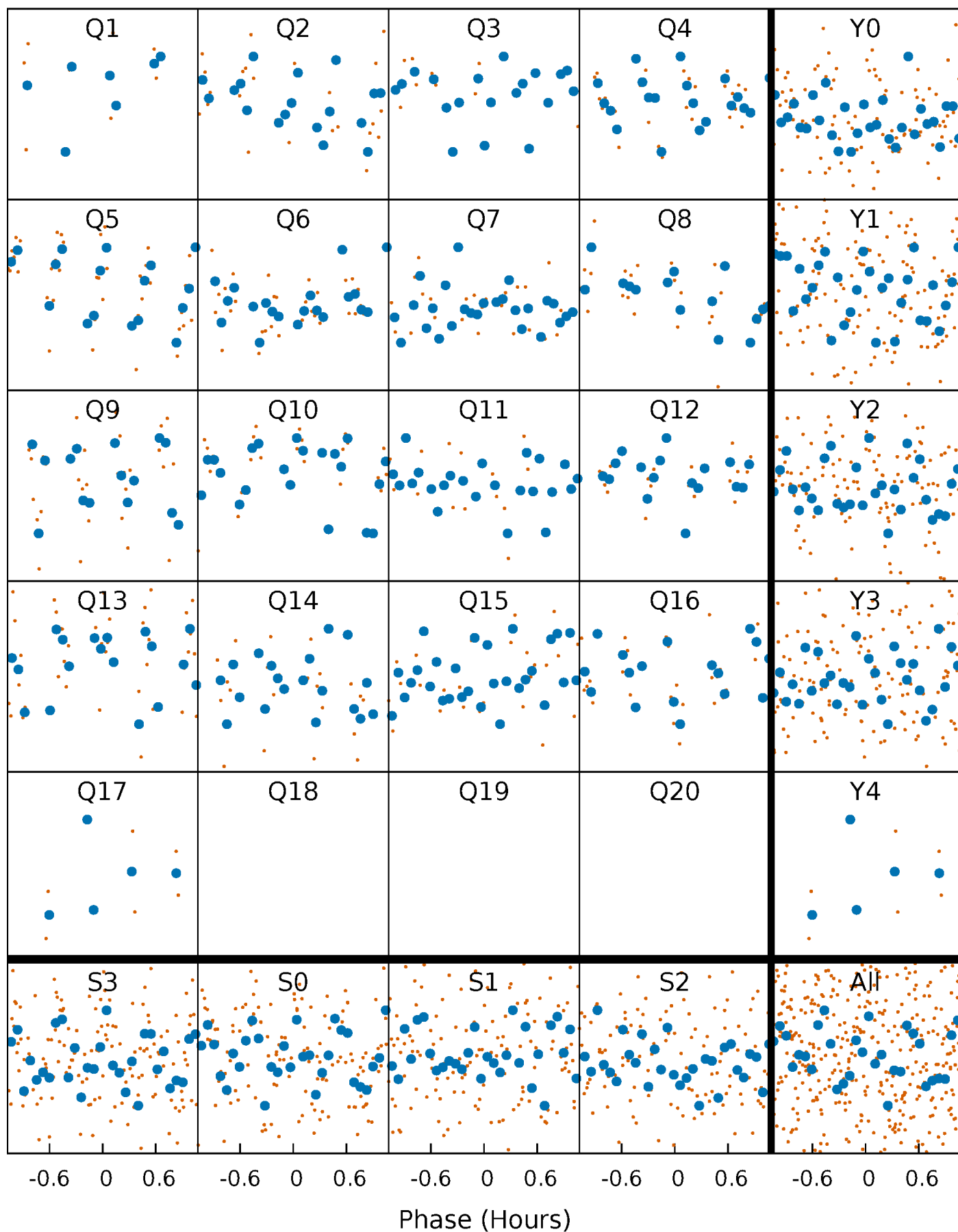


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



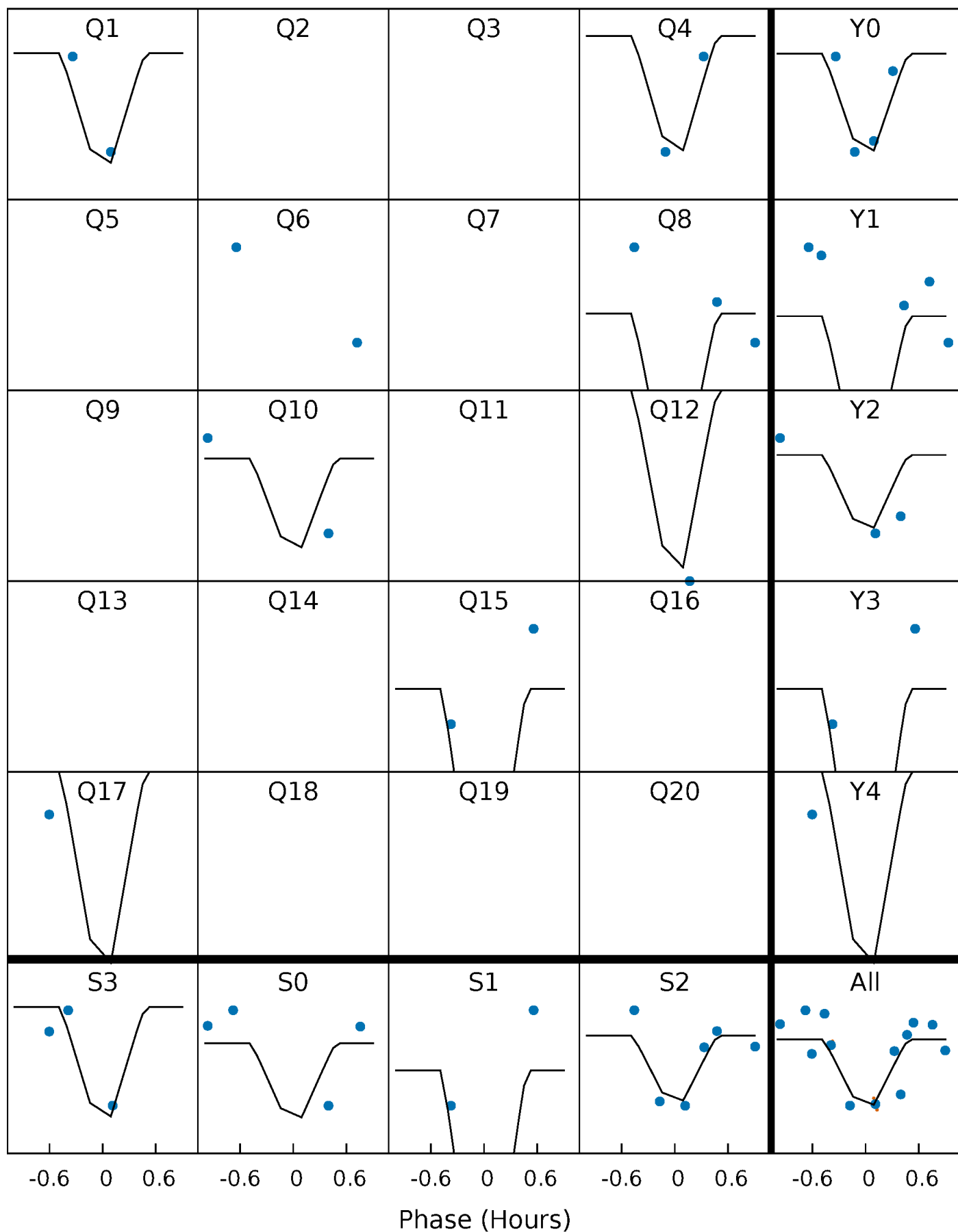
PDC Quarter-Phased Transit Curves

TCE 006289468-02 P= 10.442974 Days $T_0=134.346905$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006289468-02 P= 10.442974 Days $T_0=134.346905$ (BKJD)

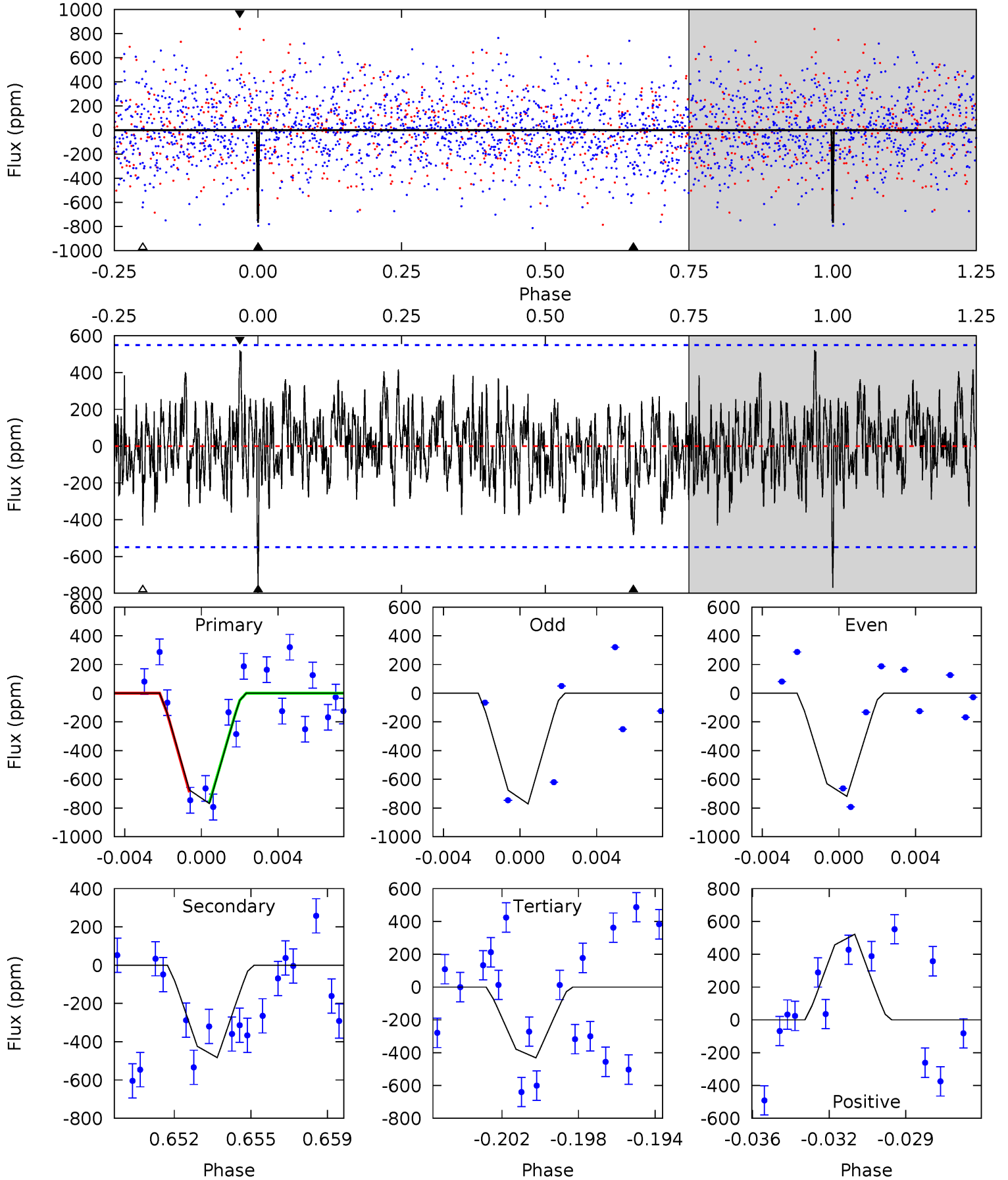


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006289468-02, P = 10.442974 Days, E = 123.903931 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.31	4.59	4.10	4.96	5.22	2.91	1.48	3.21	2.35	0.49	-0.37	0.25	0	0.40	0.26



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006289468

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8173^{+145}_{-178}	$3.281^{+0.307}_{-0.102}$	$0.070^{+0.150}_{-0.050}$	$6.492^{+1.205}_{-2.410}$	$2.933^{+0.185}_{-0.402}$	$0.015^{+0.032}_{-0.005}$
	+2%/-2%	+9%/-3%	+214%/-71%	+19%/-37%	+6%/-14%	+210%/-31%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 006289468-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-483 \pm 105	$31.65^{+25.50}_{-20.65}$	3454^{+198}_{-338}	5361^{+3998}_{-1322}	$4.728^{+34.714}_{-3.379}$
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 $A_{\text{obs}} \gg 1.0$

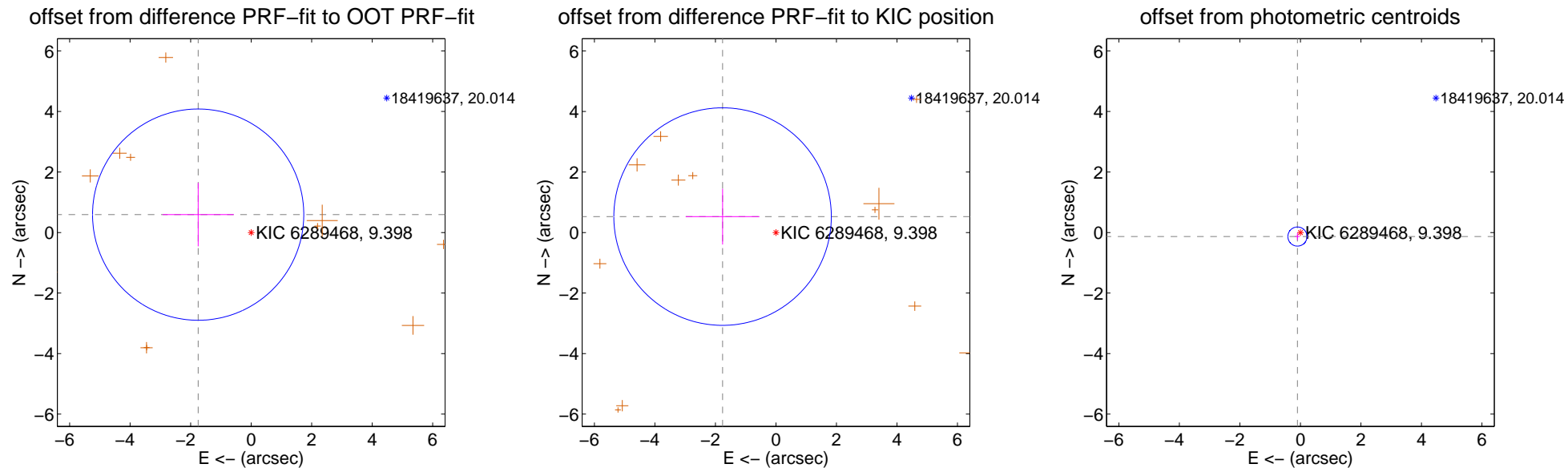
DV Centroid Data

Supplemental centroid analysis for 006289468-02. **Kepler magnitude: 9.40.** Transit SNR 19.40

There are 0 quarters with good PRF difference image offsets

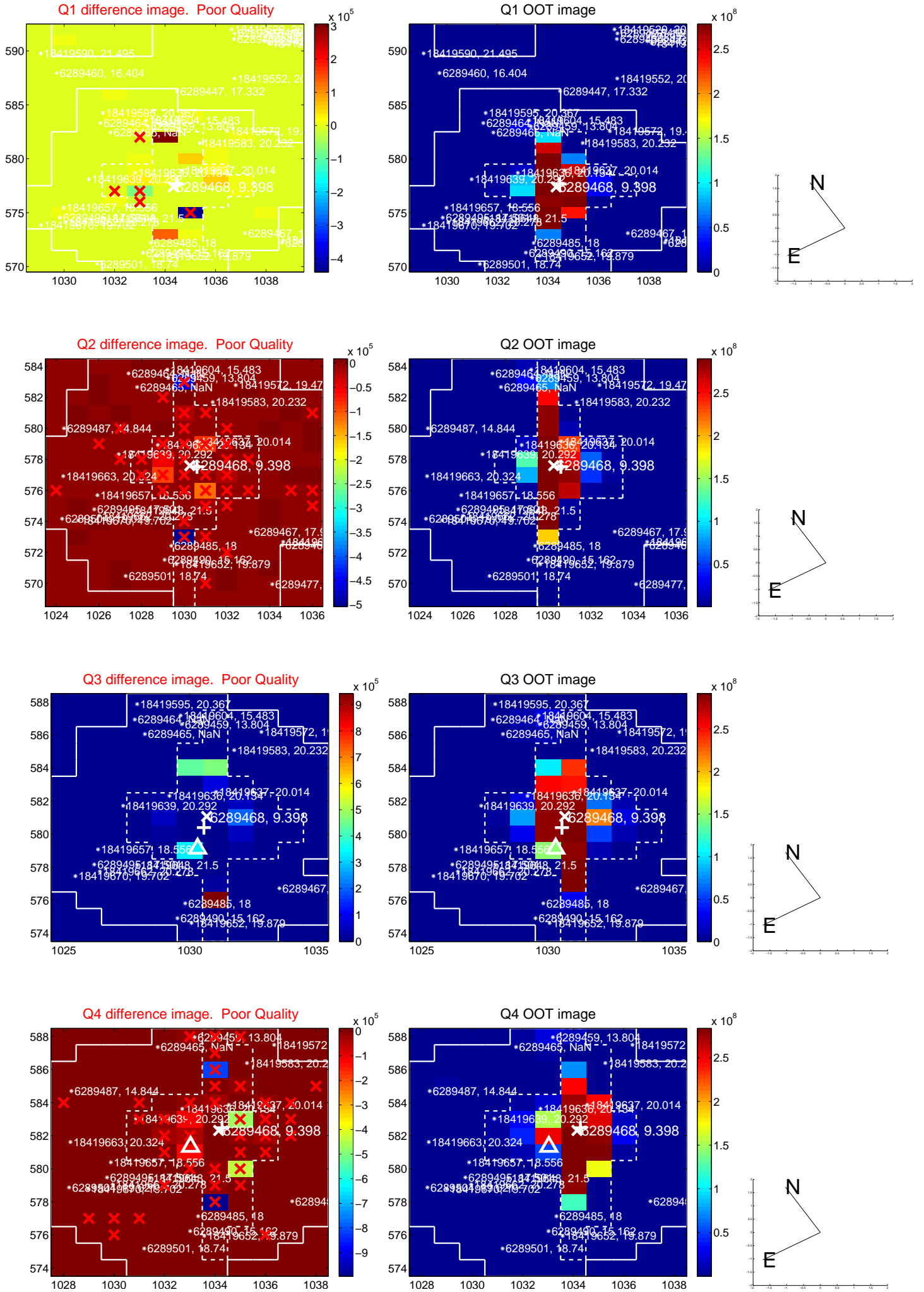
The direct PRF centroid is offset from the target star catalog position by about 1.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.849 ± 1.163	1.59	1.752 ± 1.176	0.591 ± 1.048
PRF-fit source offset from KIC position	1.840 ± 1.198	1.54	1.764 ± 1.220	0.527 ± 0.921
photometric centroid source offset	0.16 ± 0.11	1.57	0.10 ± 0.08	-0.13 ± 0.12

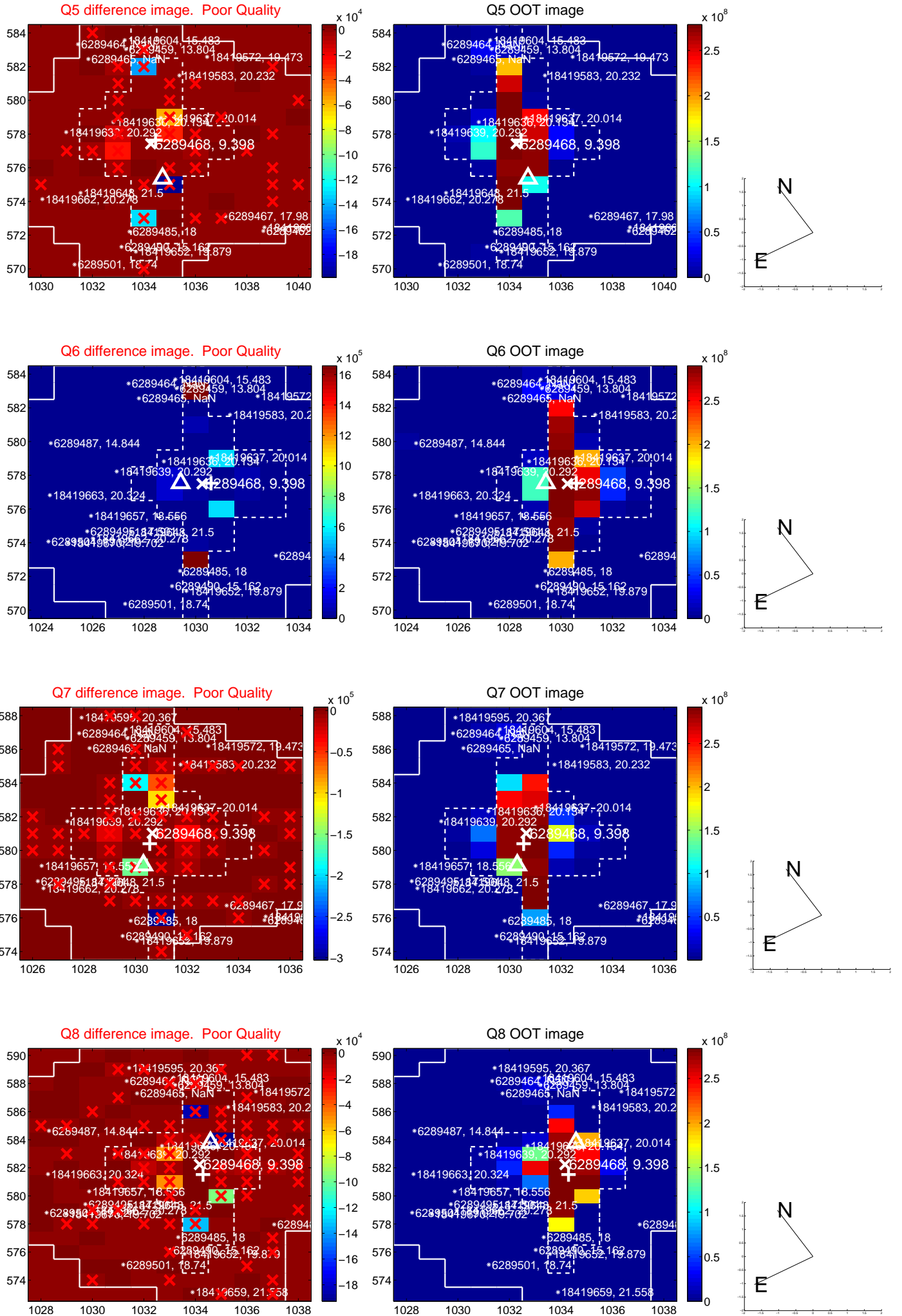


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

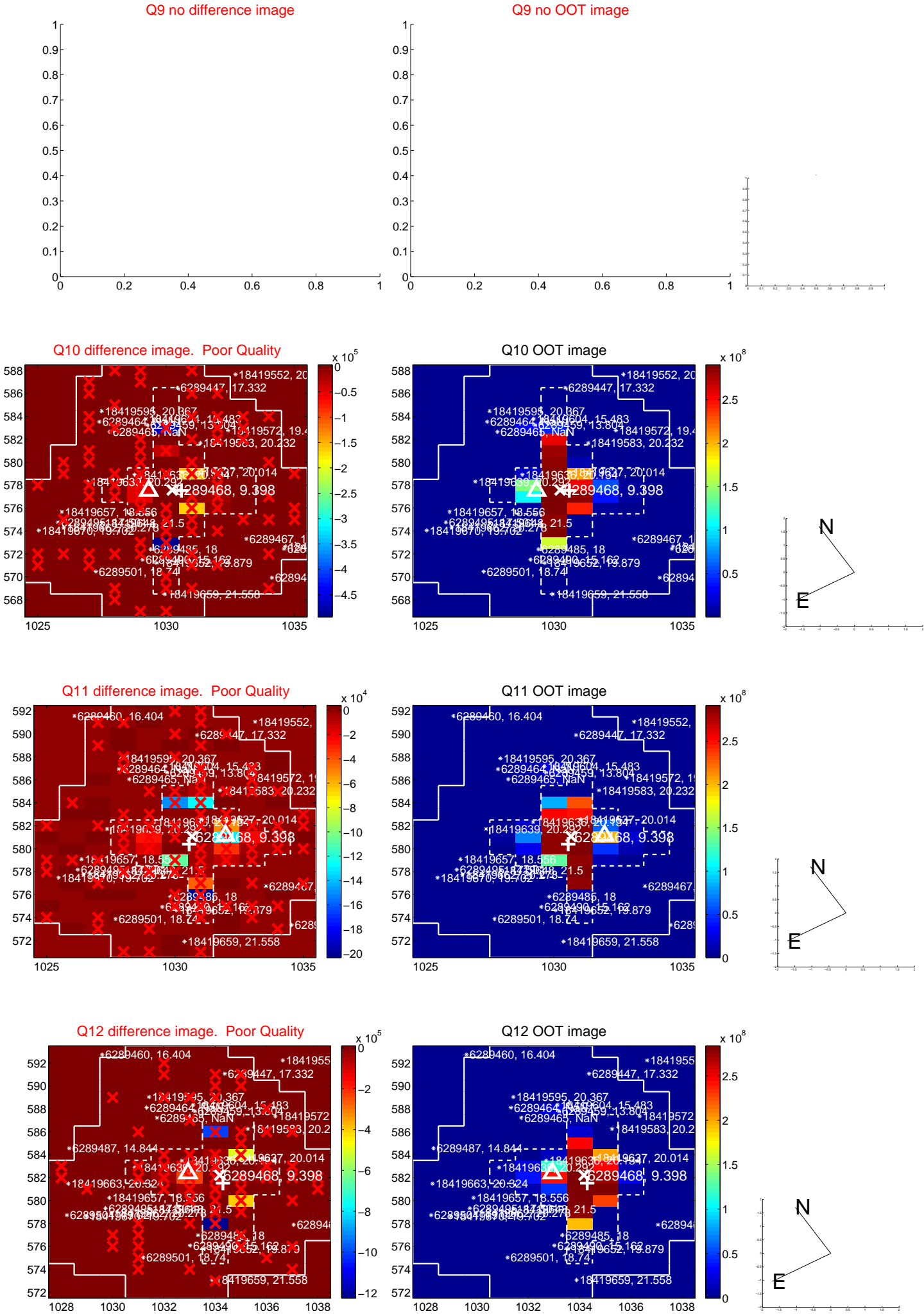
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



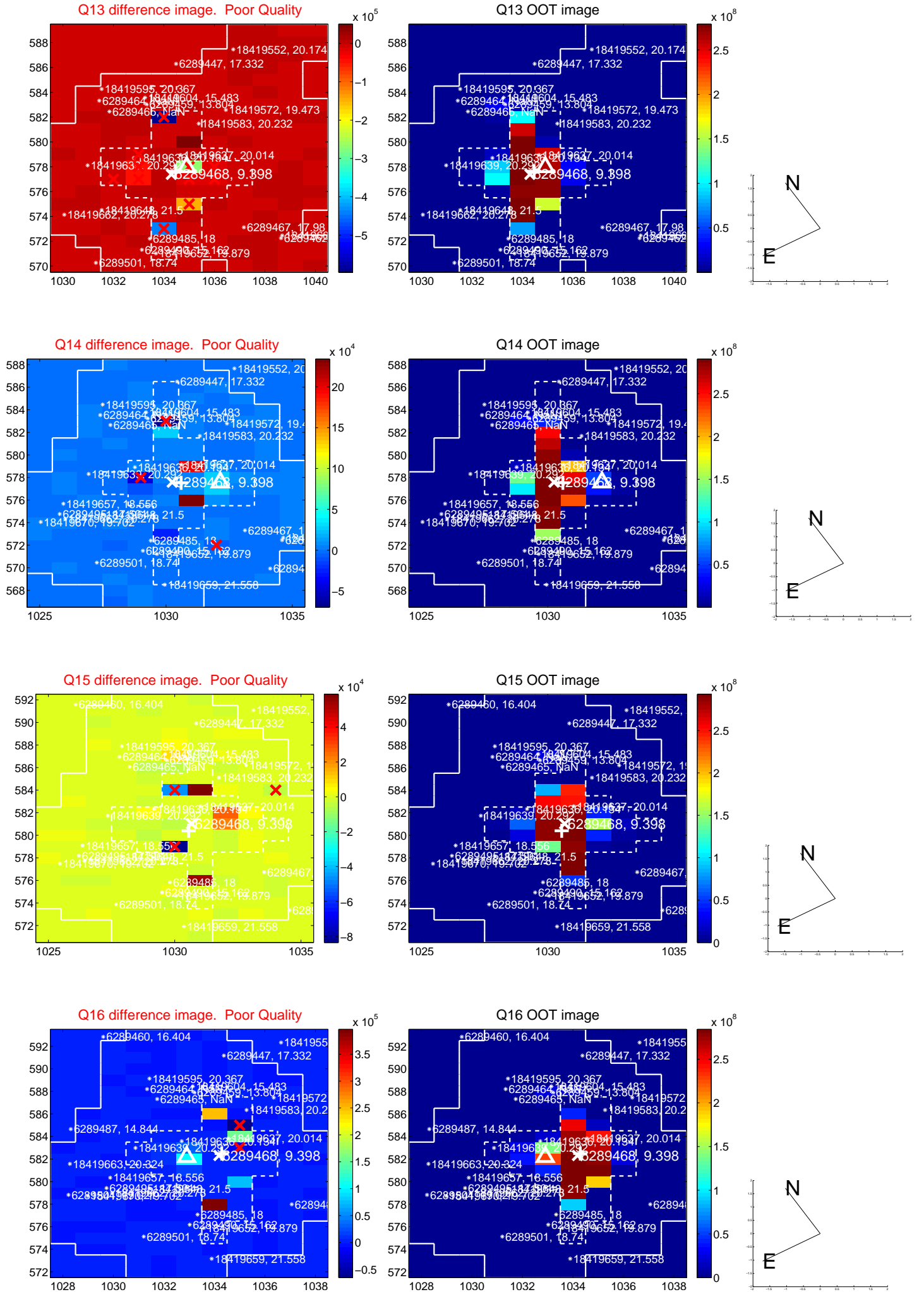
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



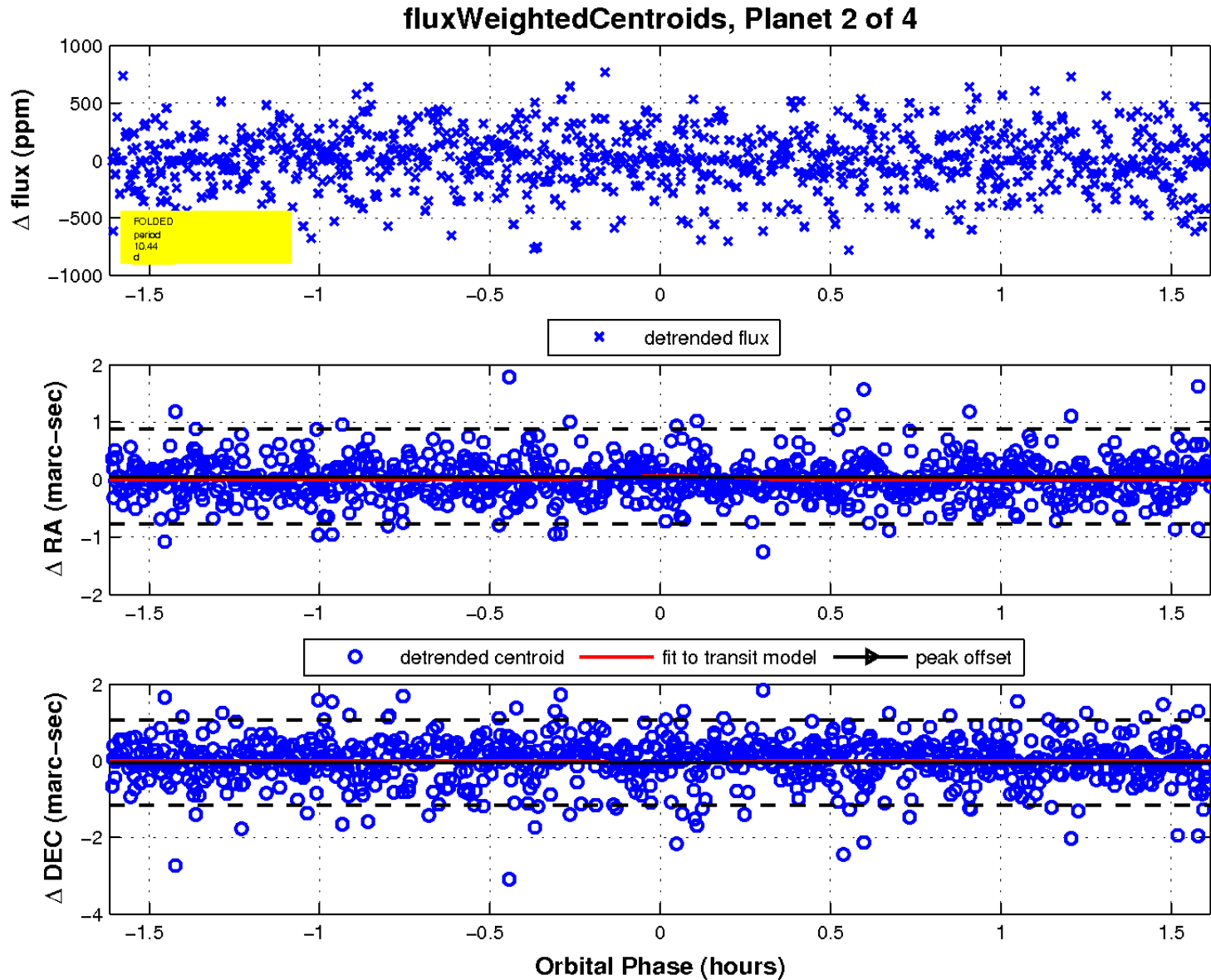
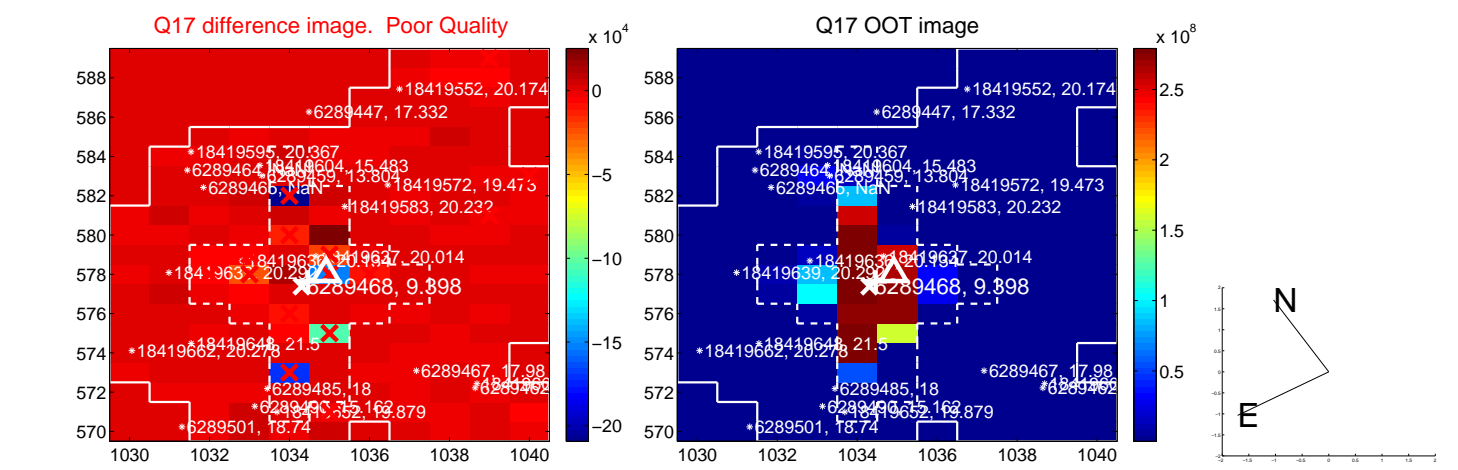
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

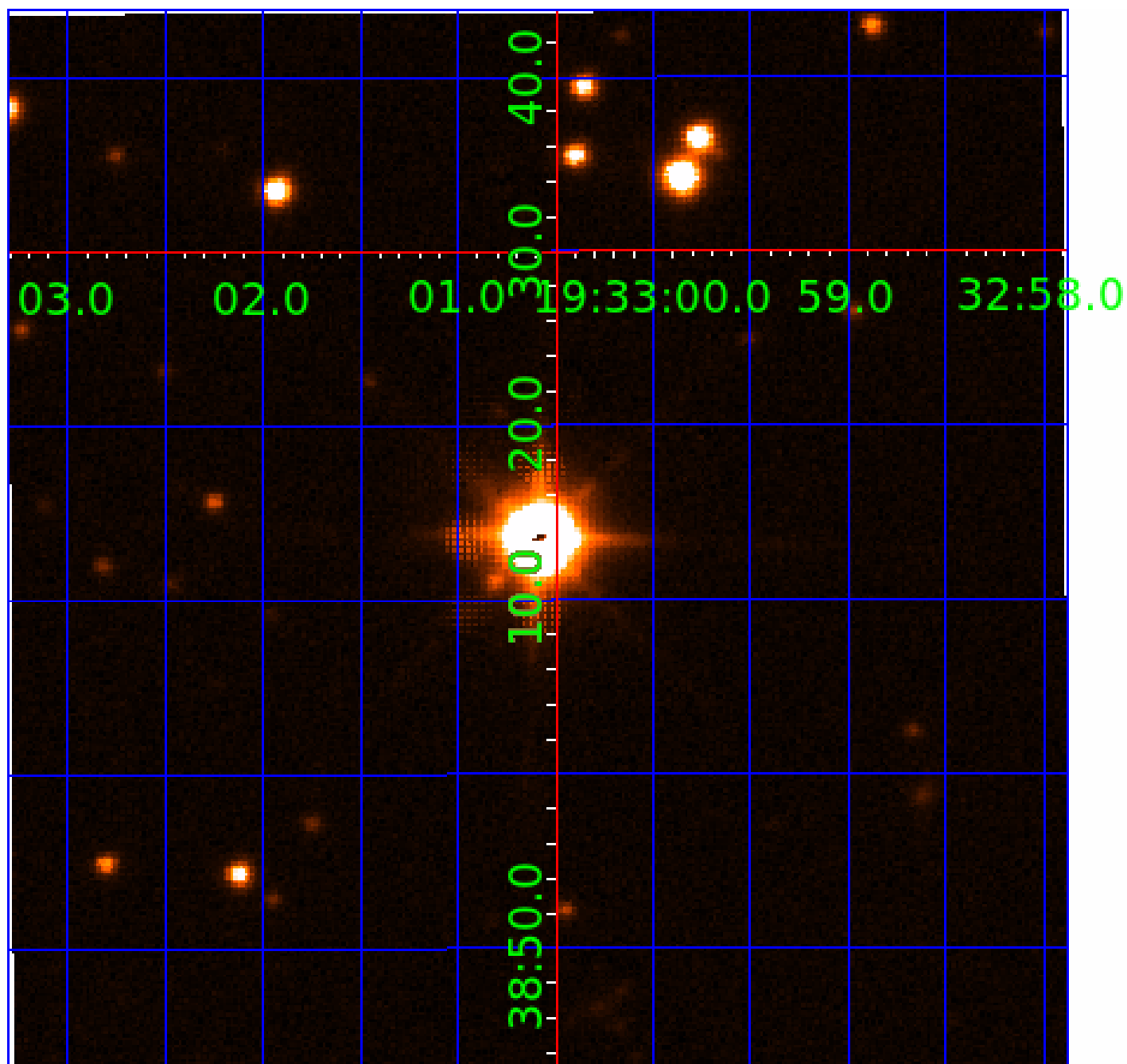


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006289468

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})
006289468-01	OBS	No	0.616141	131.518913	30.3	4.625	11.6	12.0	6.49	8173	3.63	0.00
006289468-02	OBS	No	10.442974	134.346905	877.1	0.539	13.4	19.4	6.49	8173	23.03	9395.22
006289468-03	OBS	No	15.154561	143.986229	549.9	2.558	9.9	20.6	6.49	8173	16.01	5718.49
006289468-04	OBS	No	6.433770	133.885937	277.6	1.887	12.0	13.9	6.49	8173	11.20	17921.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006289468-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
006289468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

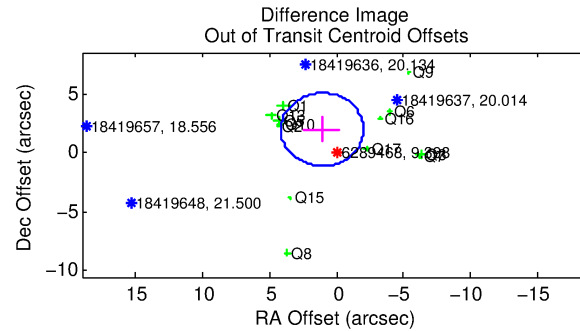
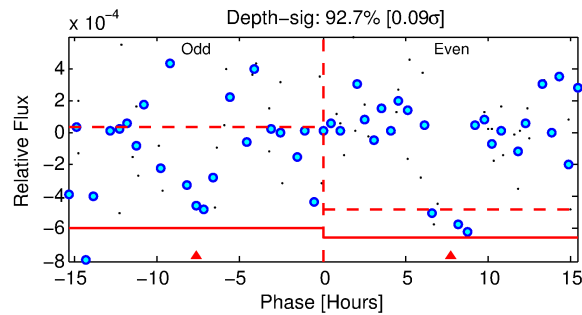
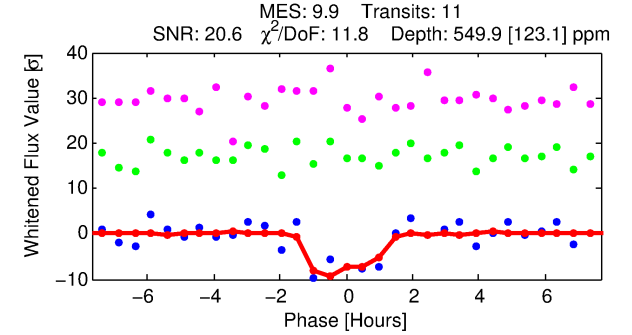
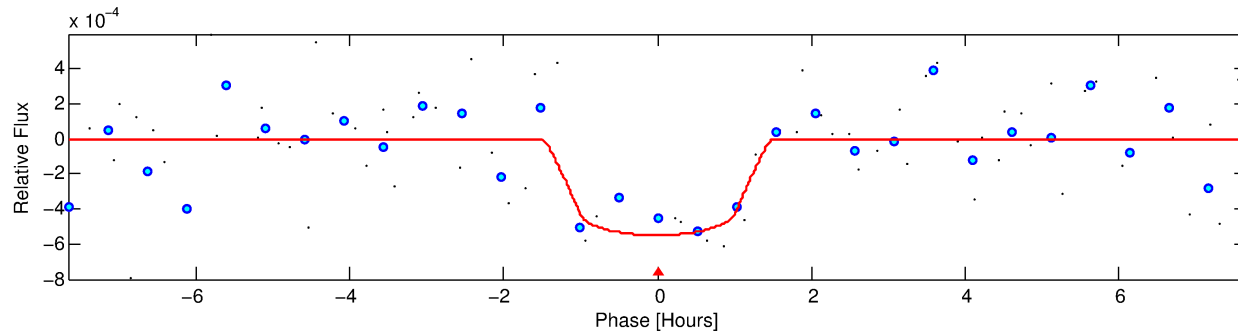
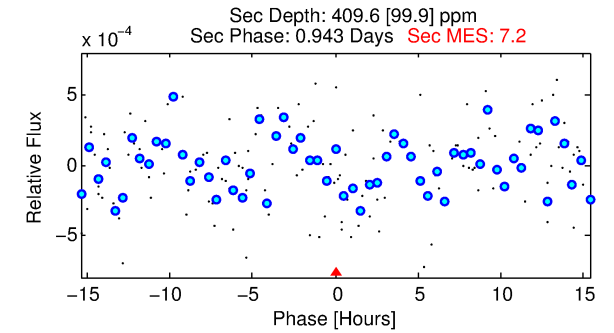
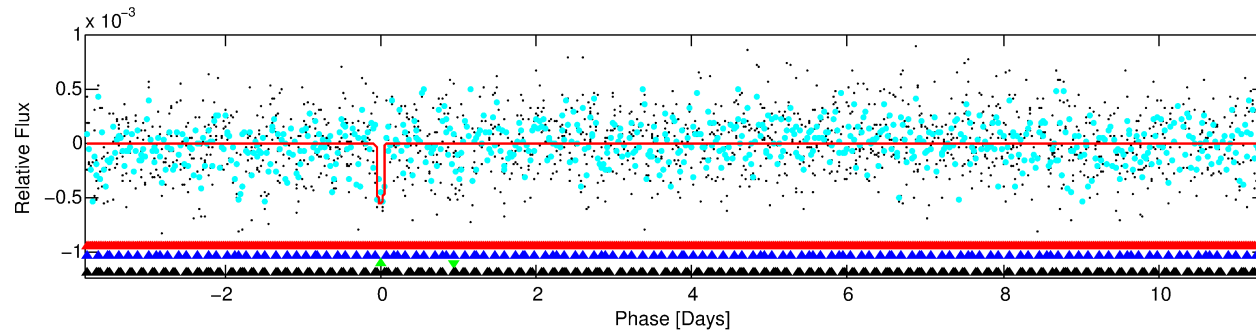
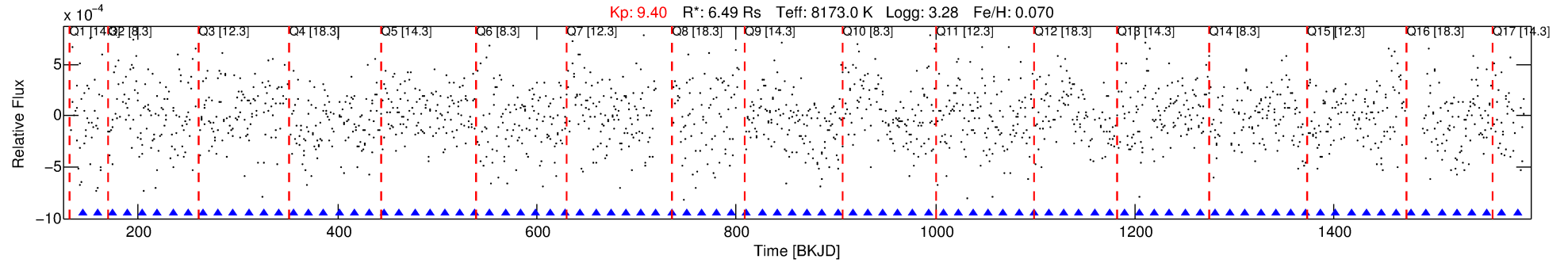
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006289468-03

No Significant Match Found

DV One-Page Summary

KIC: 6289468 Candidate: 3 of 4 Period: 15.155 d



DV Fit Results:

Period = 15.15456 [0.00030] d
Epoch = 143.9862 [0.0085] BKJD
Rp/R* = 0.0226 [0.1224]
a/R* = 37.38 [1129.35]
b = 0.60 [32.61]
Seff = 5718.49 [3084.41]
Teff = 2217 [299] K
Rp = 16.01 [86.95] Re
a = 0.1717 [0.0587] AU
Ag = 25.89 [280.92] [0.09 σ]
Teffp = 7734 [20951] K [0.26 σ]

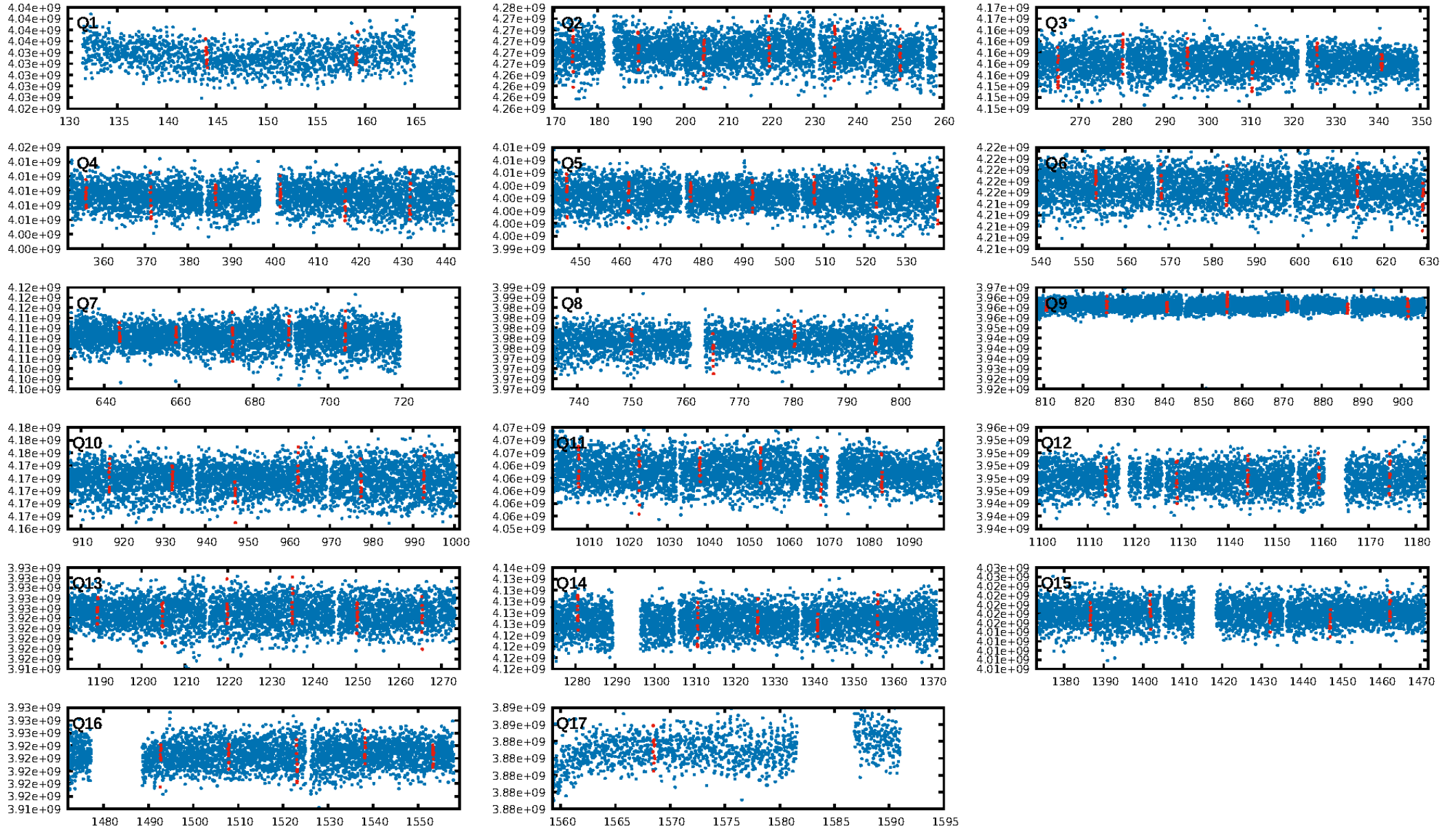
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [43.26 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.89e-06
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: N/A
Centroid-sig: 62.8%
Centroid-so: 0.190 arcsec [1.94 σ]
OotOffset-rm: 2.246 arcsec [2.18 σ]
KicOffset-rm: 2.192 arcsec [2.02 σ]
OotOffset-st: 3/3/2/5 [13]
KicOffset-st: 3/3/2/5 [13]
DiffImageQuality-fgm: 0.08 [1/13]
DiffImageOverlap-fno: 0.00 [0/17]

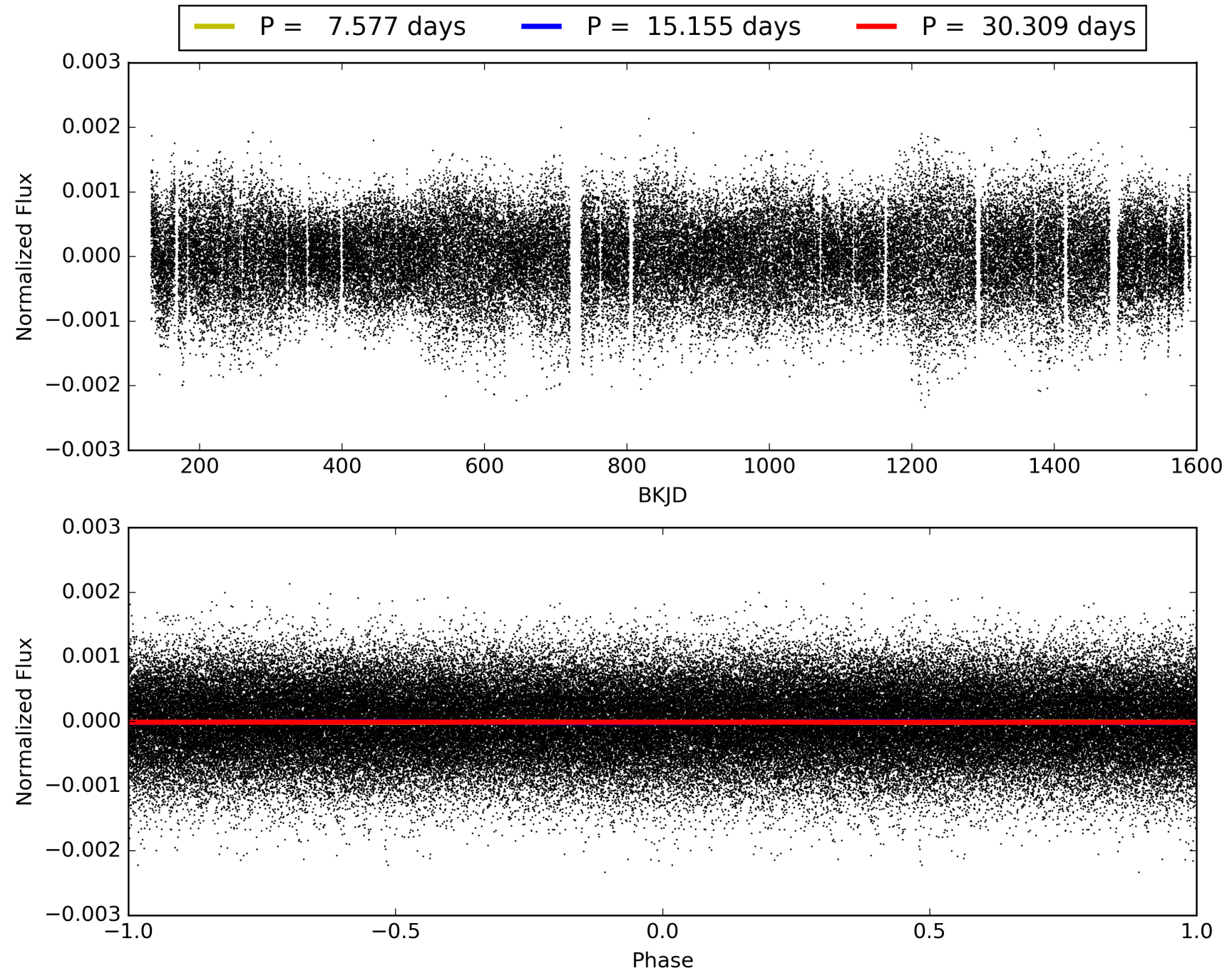
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 12:47:30 Z

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

TCE 006289468-03, PDC Light Curves

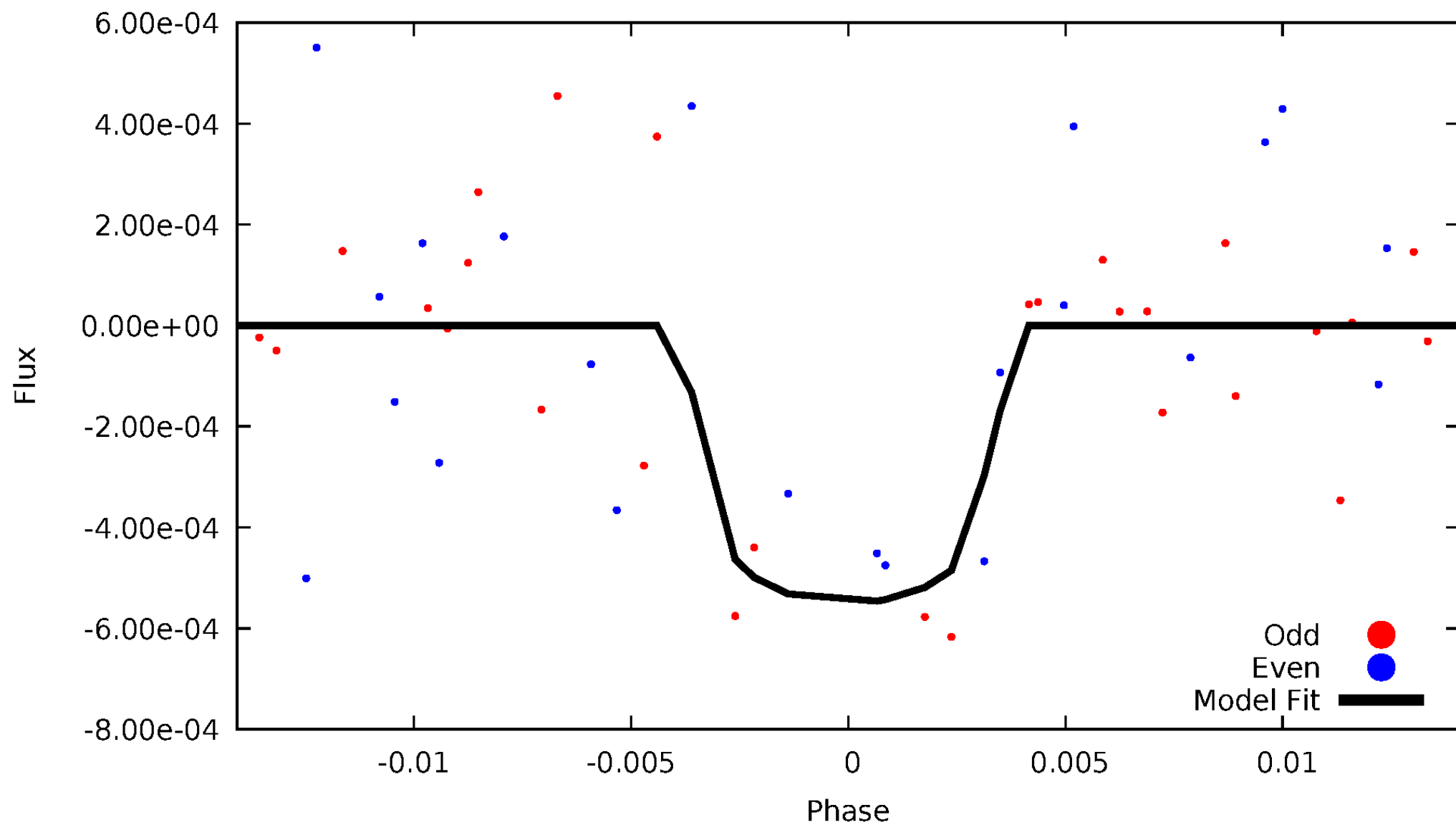


TCE 006289468-03



DV Odd/Even

TCE 006289468-03

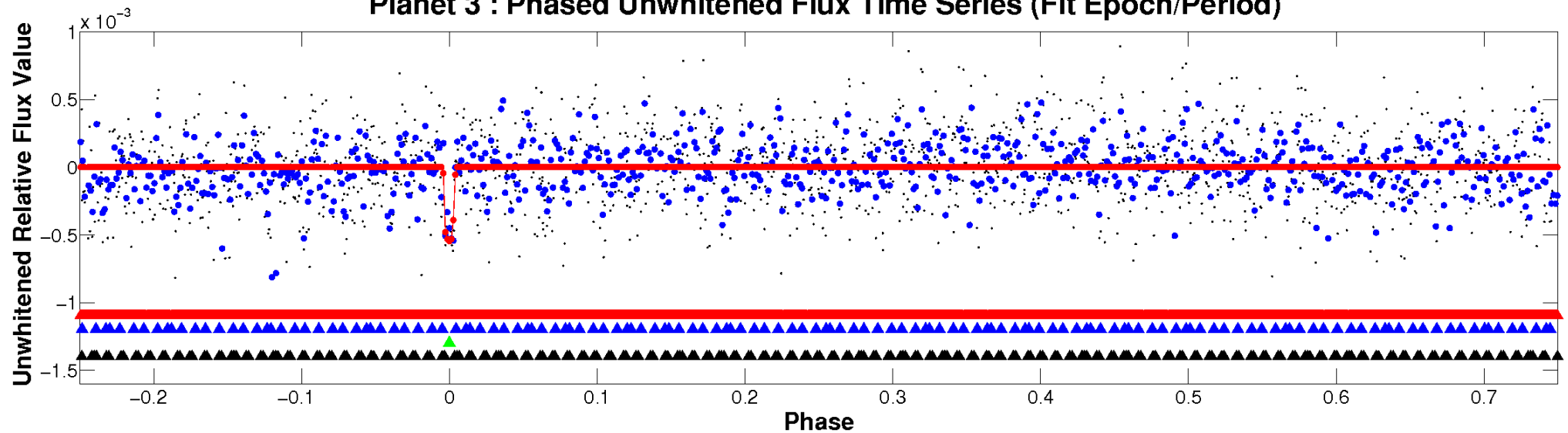


ALT Odd/Even

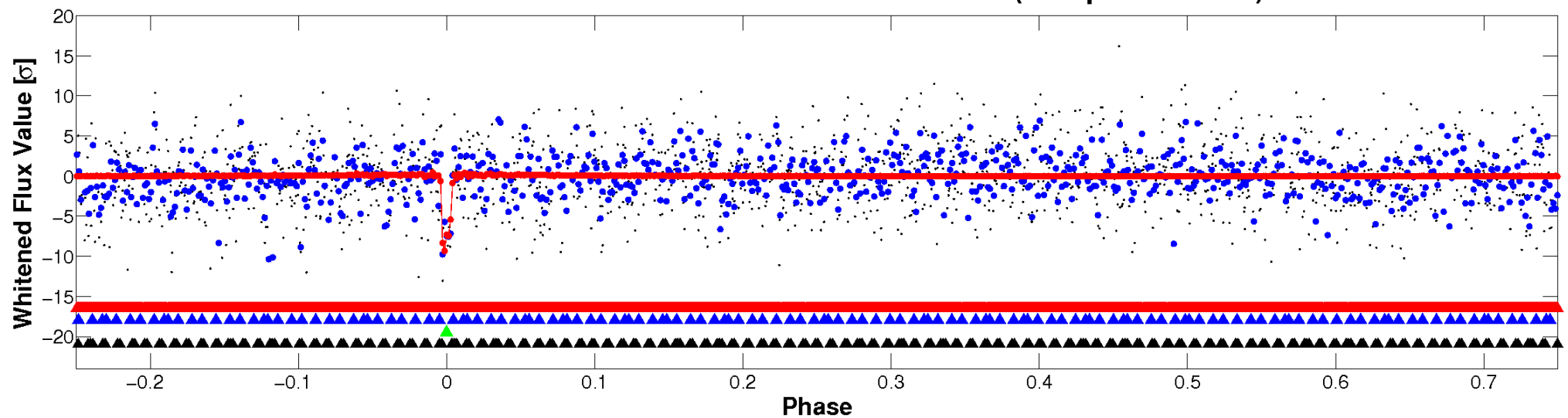
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

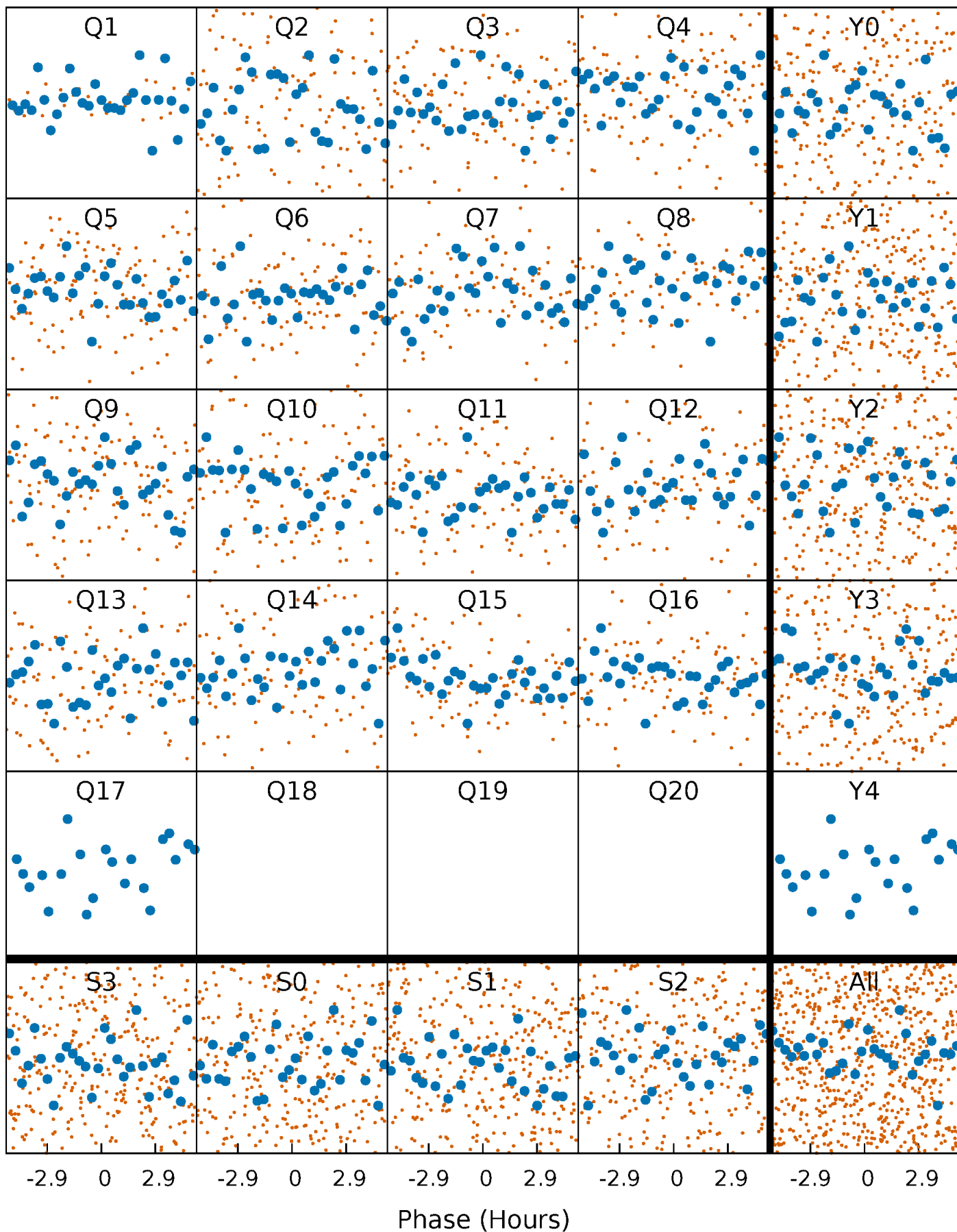


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



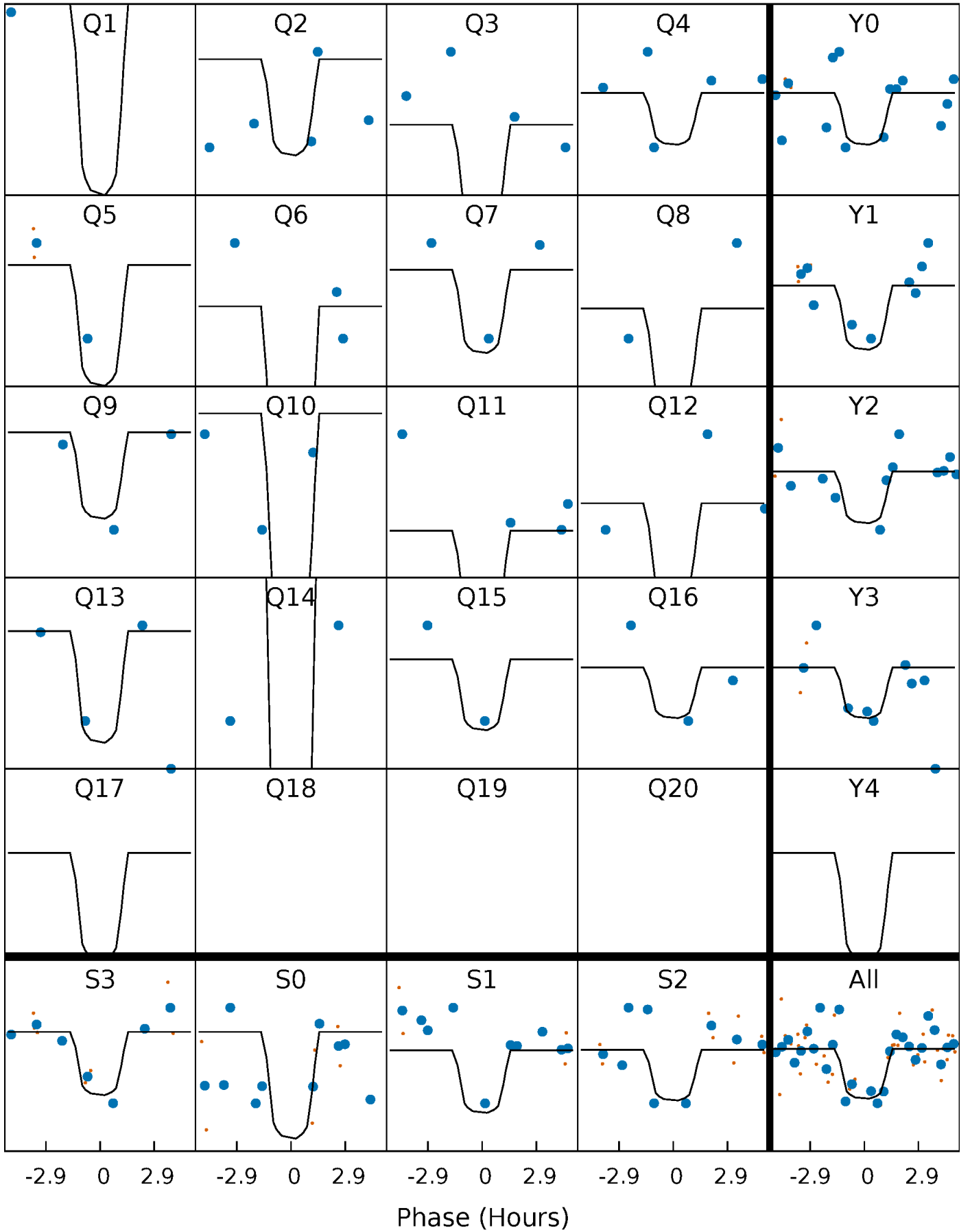
PDC Quarter-Phased Transit Curves

TCE 006289468-03 P= 15.154561 Days $T_0=143.986229$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006289468-03 P= 15.154561 Days $T_0=143.986229$ (BKJD)

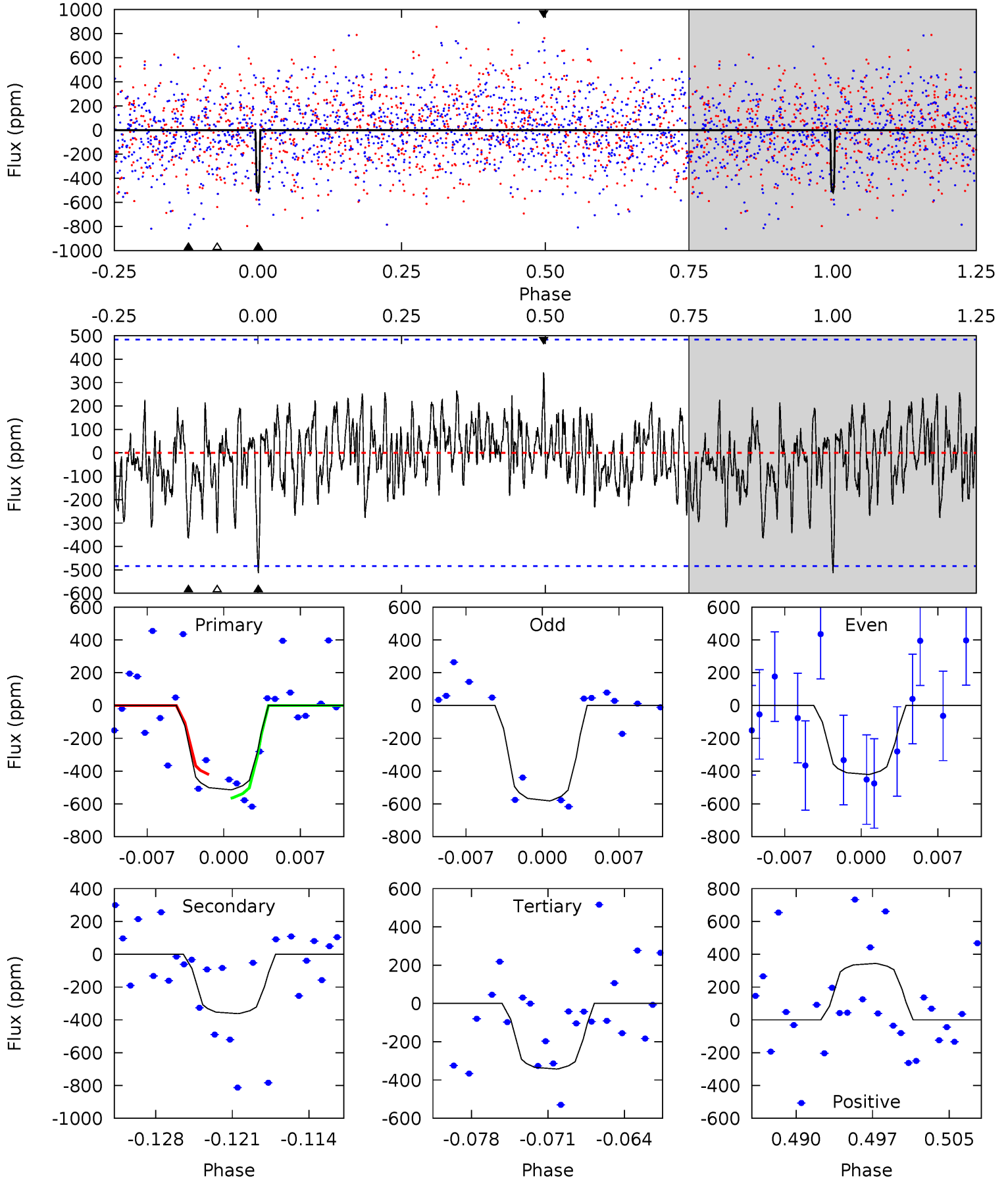


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006289468-03, P = 15.154561 Days, E = 128.831668 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.41	3.81	3.61	3.62	5.09	2.69	1.18	1.81	1.79	0.20	0.19	0.85	0	0.40	0.74



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006289468

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8173^{+145}_{-178}	$3.281^{+0.307}_{-0.102}$	$0.070^{+0.150}_{-0.050}$	$6.492^{+1.205}_{-2.410}$	$2.933^{+0.185}_{-0.402}$	$0.015^{+0.032}_{-0.005}$
	+2%/-2%	+9%/-3%	+214%/-71%	+19%/-37%	+6%/-14%	+210%/-31%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 006289468-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-362 ± 95	$60.27^{+65.44}_{-43.08}$	3043^{+176}_{-294}	3756^{+2858}_{-1299}	$1.534^{+16.011}_{-1.175}$
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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

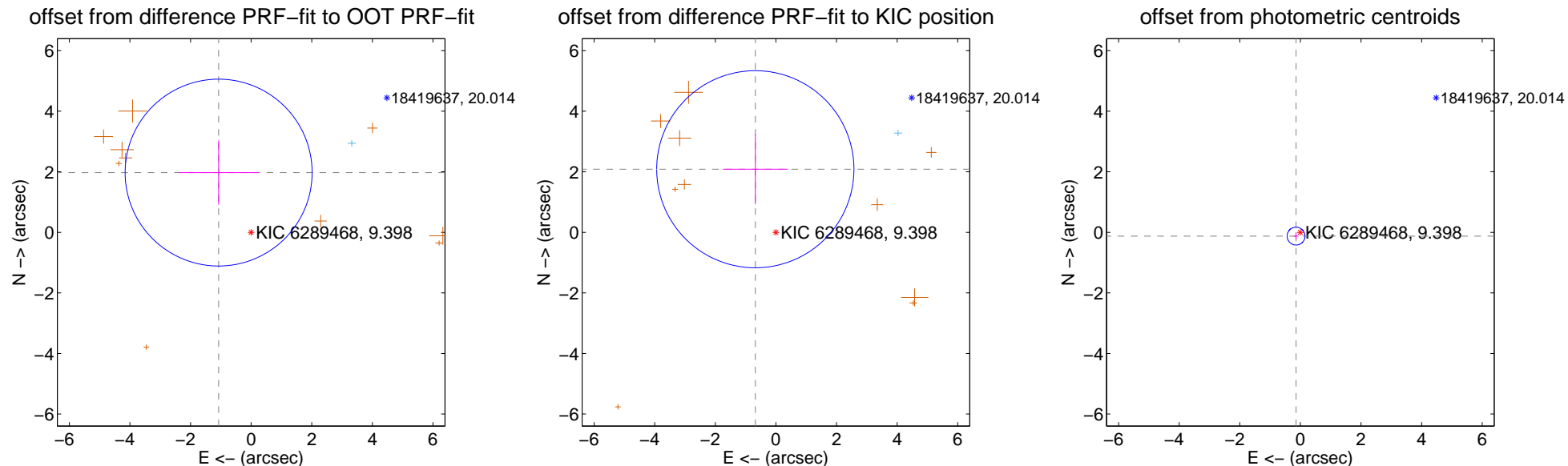
DV Centroid Data

Supplemental centroid analysis for 006289468-03. **Kepler magnitude: 9.40.** Transit SNR 20.55

There are 1 quarters with good PRF difference image offsets

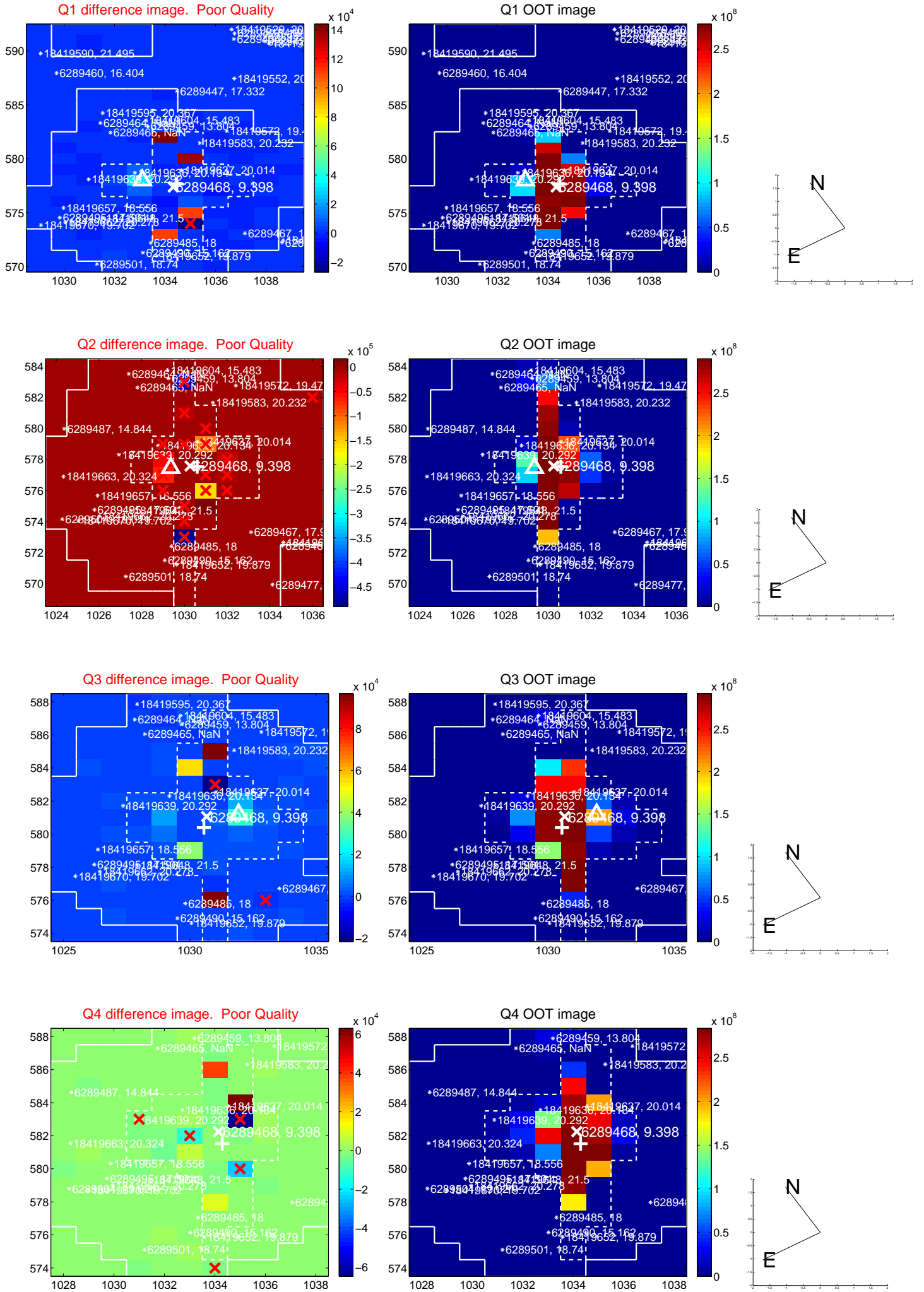
The direct PRF centroid is offset from the target star catalog position by about 1.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.246 ± 1.028	2.18	1.074 ± 1.316	1.973 ± 1.061
PRF-fit source offset from KIC position	2.192 ± 1.085	2.02	0.680 ± 1.072	2.084 ± 1.158
photometric centroid source offset	0.19 ± 0.10	1.94	0.14 ± 0.08	-0.12 ± 0.12

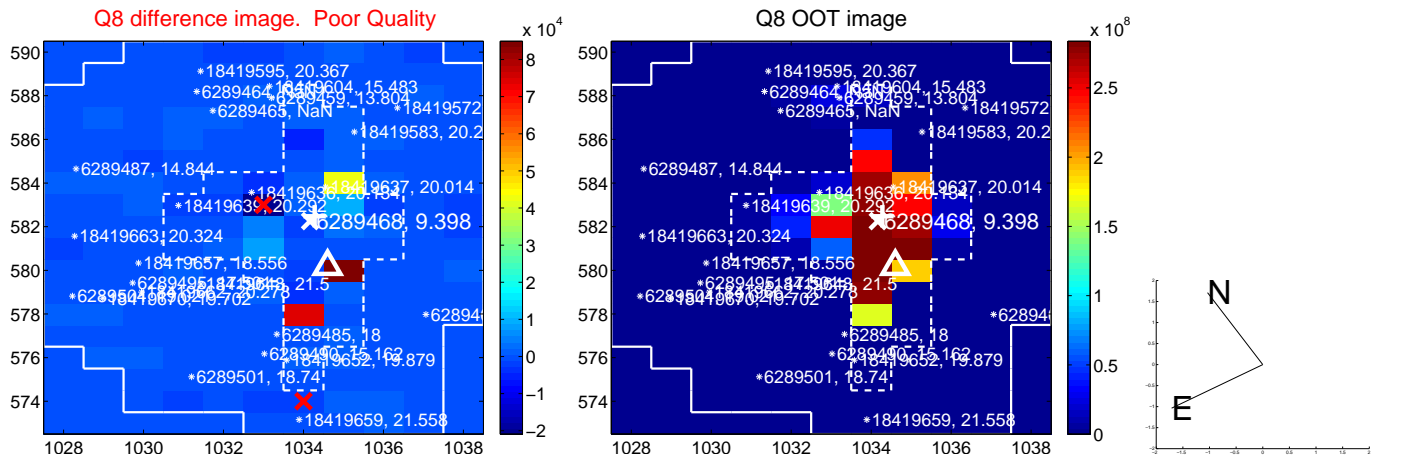
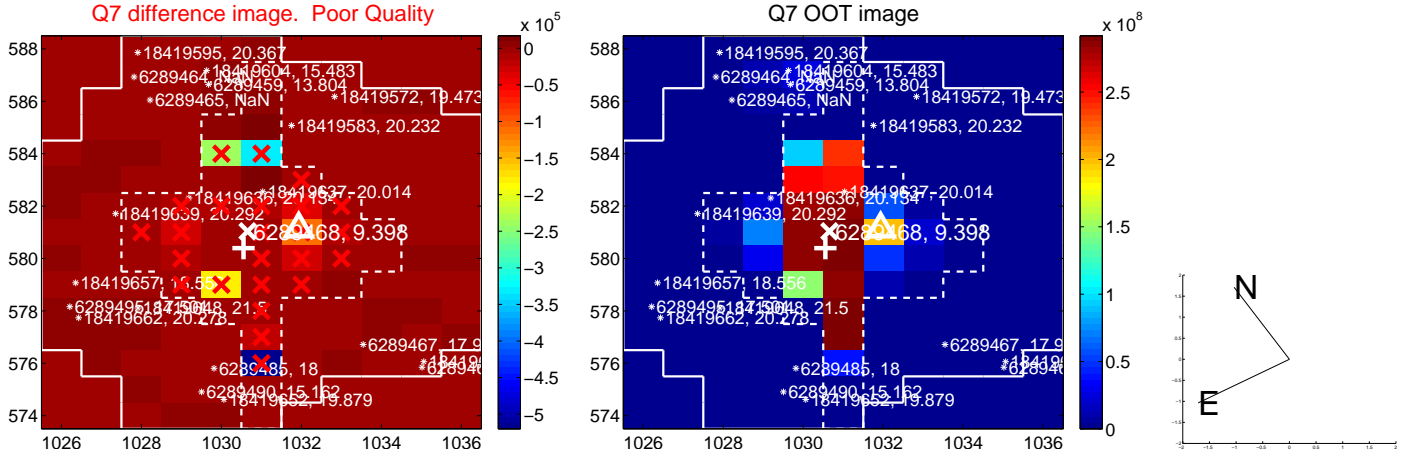
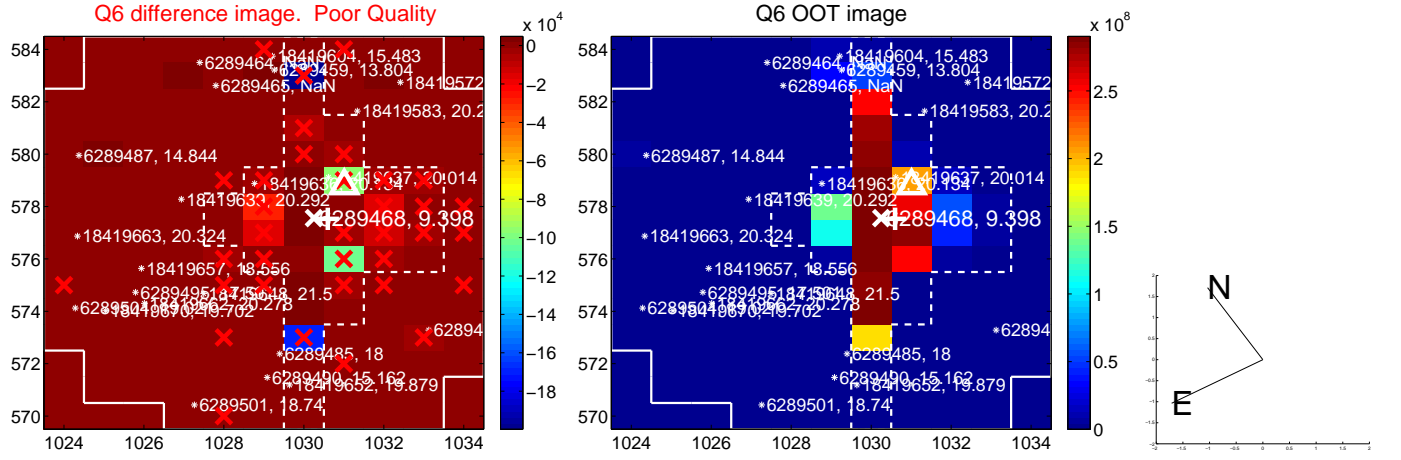
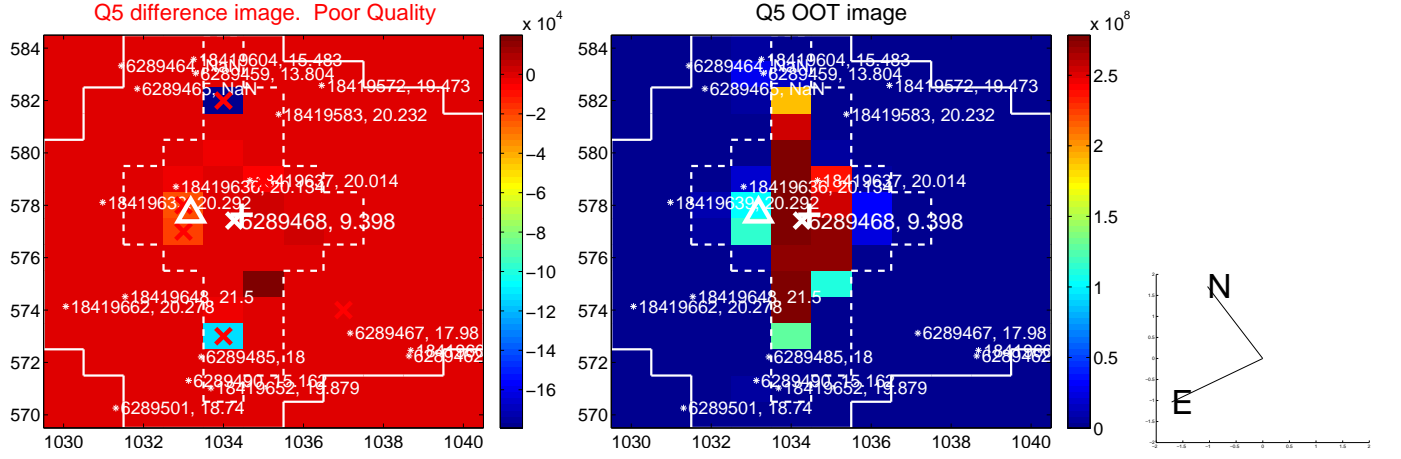


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

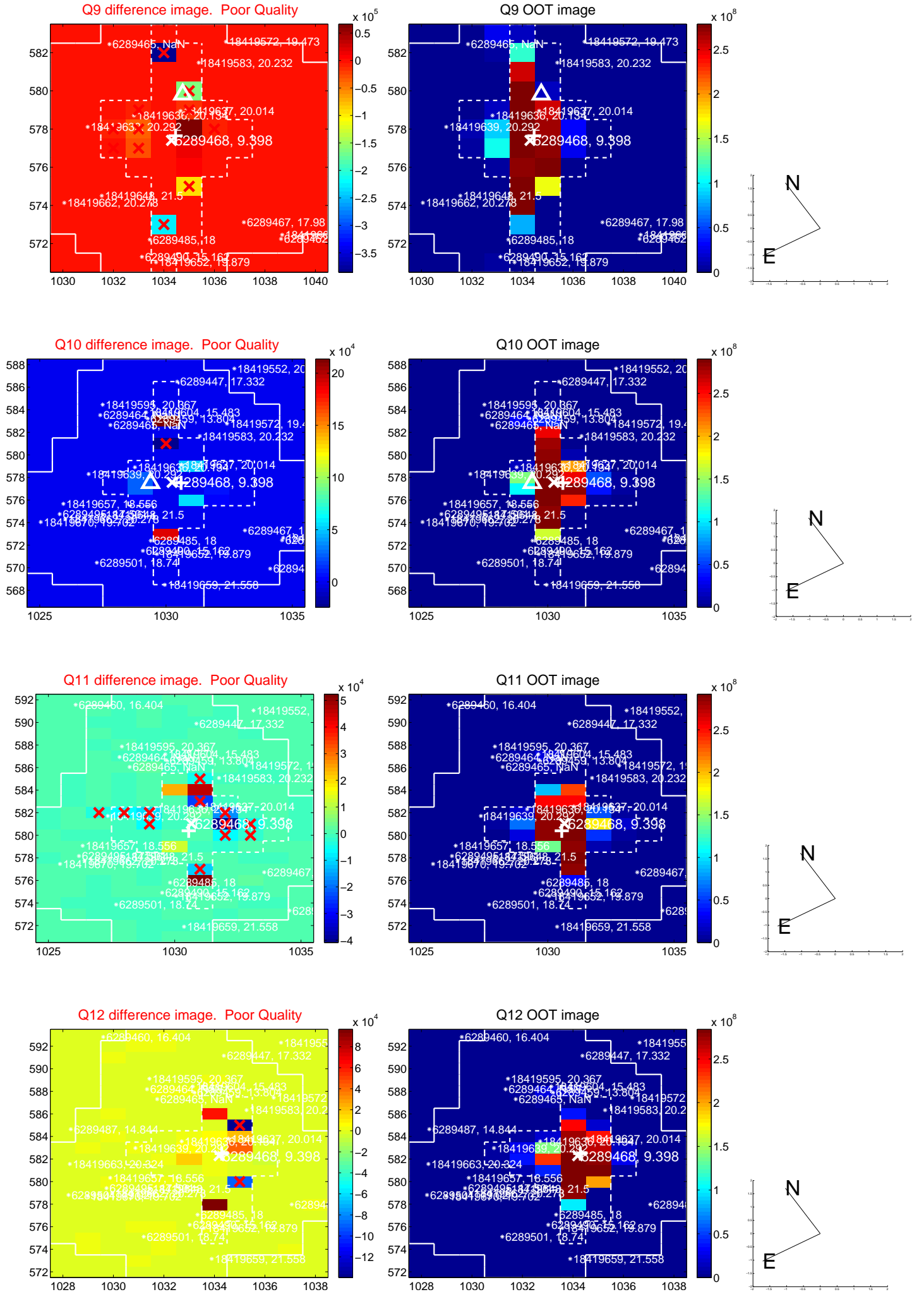
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



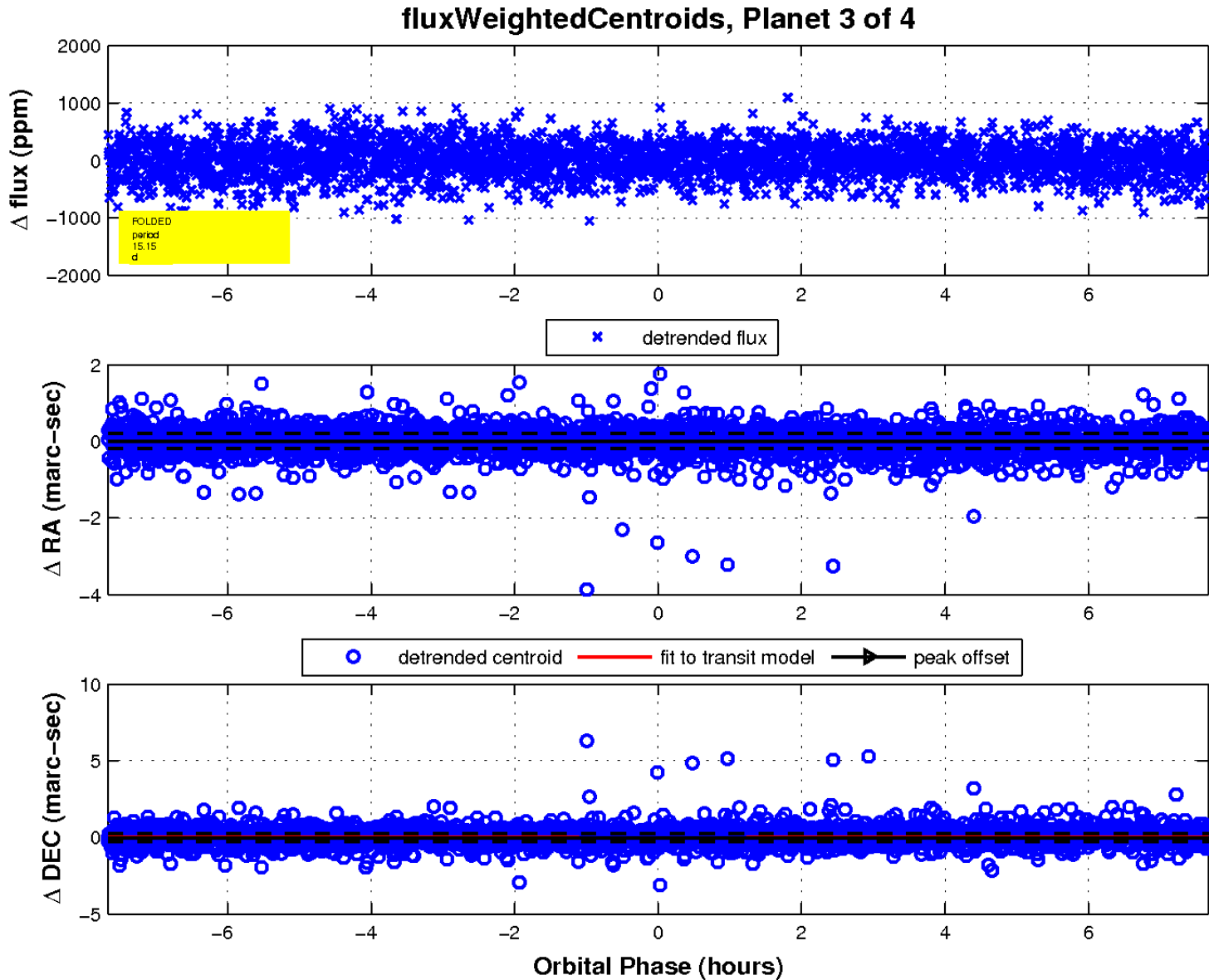
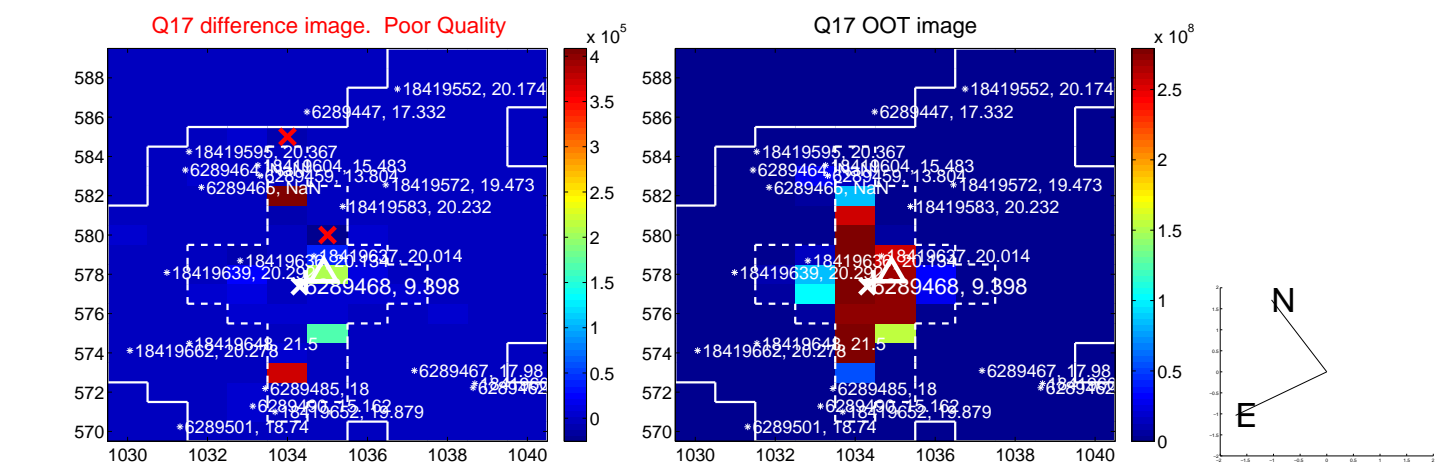
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

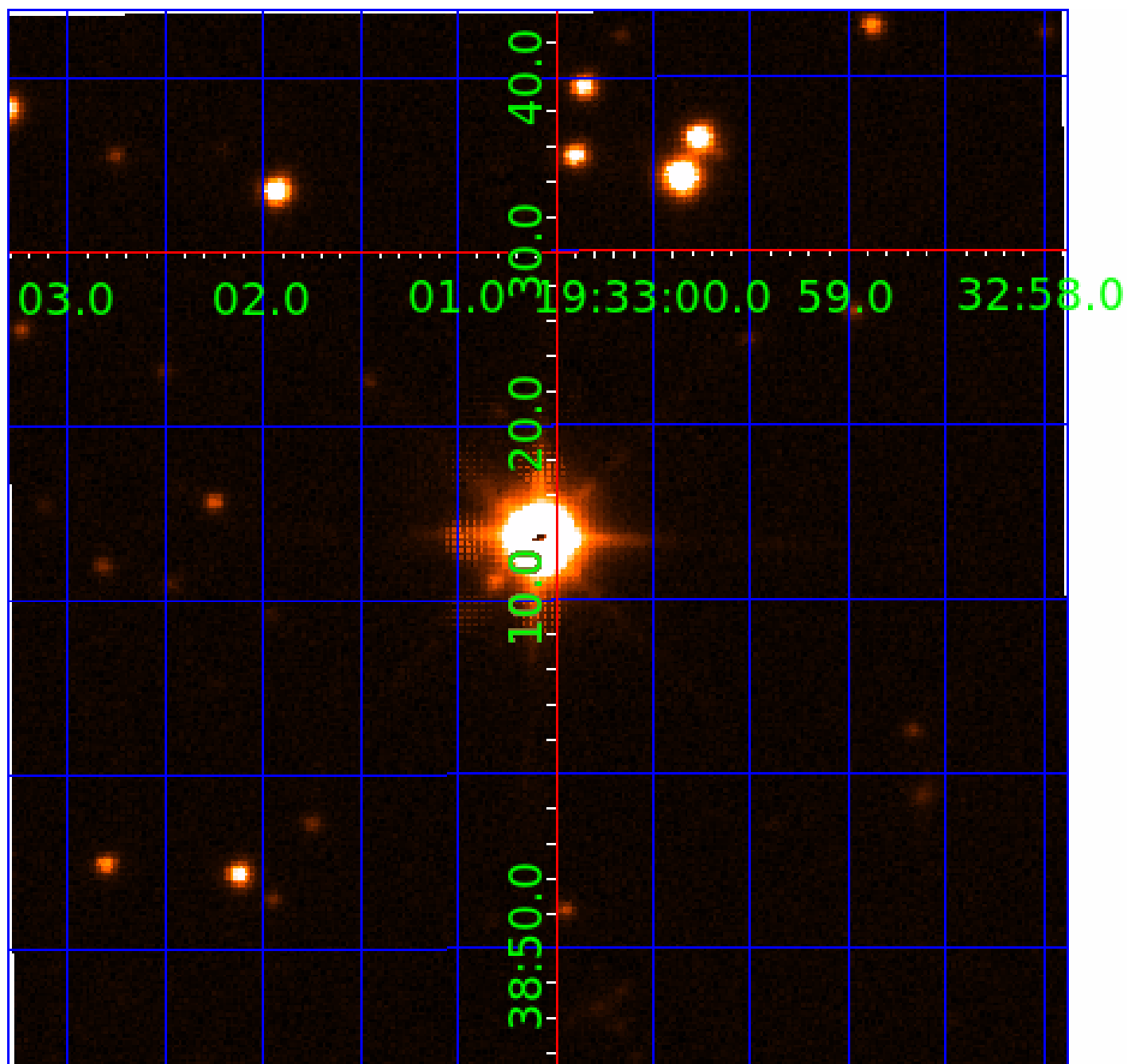


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006289468

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})
006289468-01	OBS	No	0.616141	131.518913	30.3	4.625	11.6	12.0	6.49	8173	3.63	0.00
006289468-02	OBS	No	10.442974	134.346905	877.1	0.539	13.4	19.4	6.49	8173	23.03	9395.22
006289468-03	OBS	No	15.154561	143.986229	549.9	2.558	9.9	20.6	6.49	8173	16.01	5718.49
006289468-04	OBS	No	6.433770	133.885937	277.6	1.887	12.0	13.9	6.49	8173	11.20	17921.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006289468-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
006289468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006289468-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

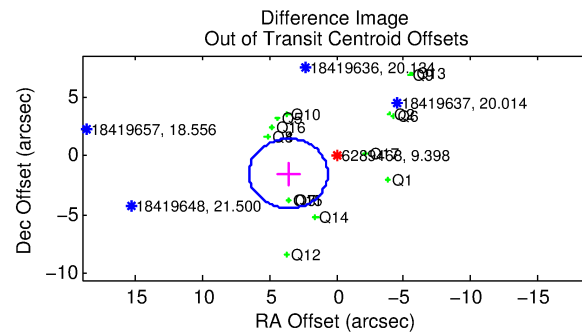
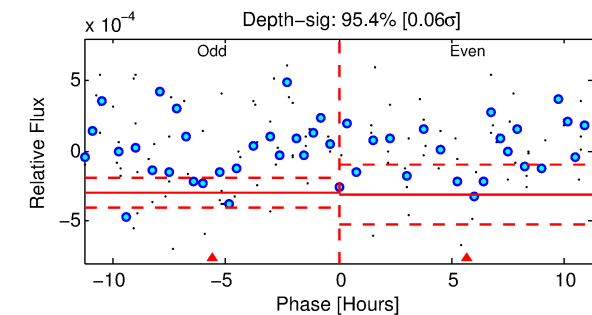
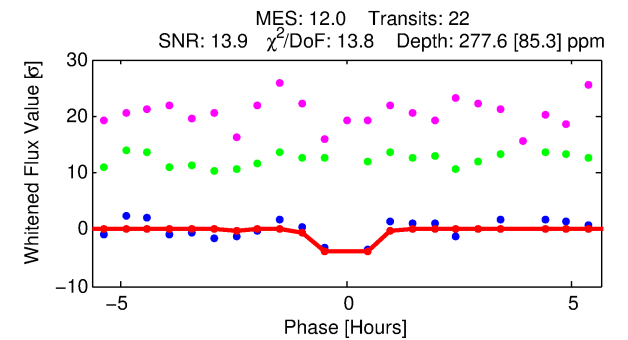
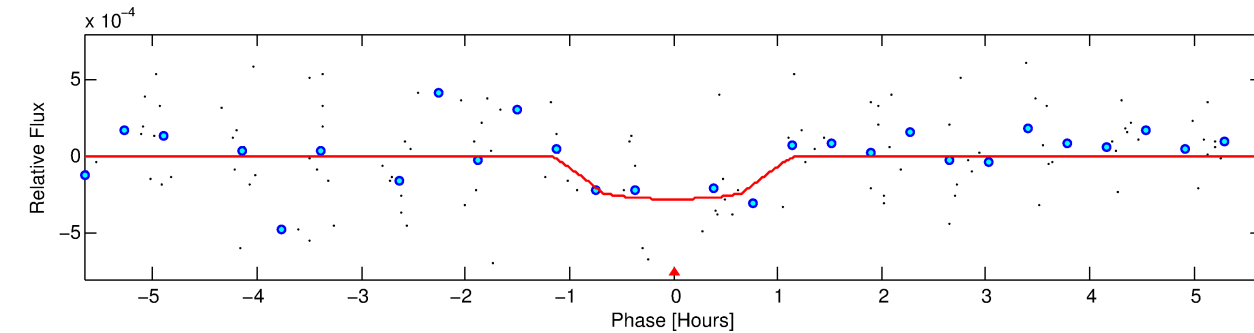
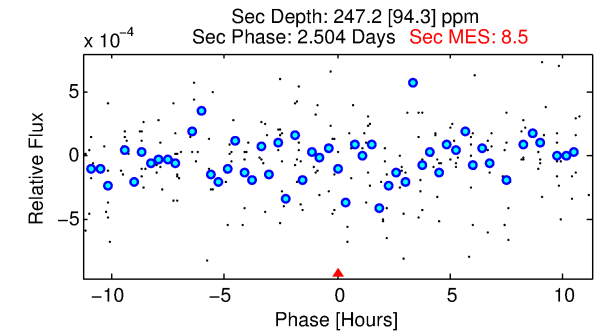
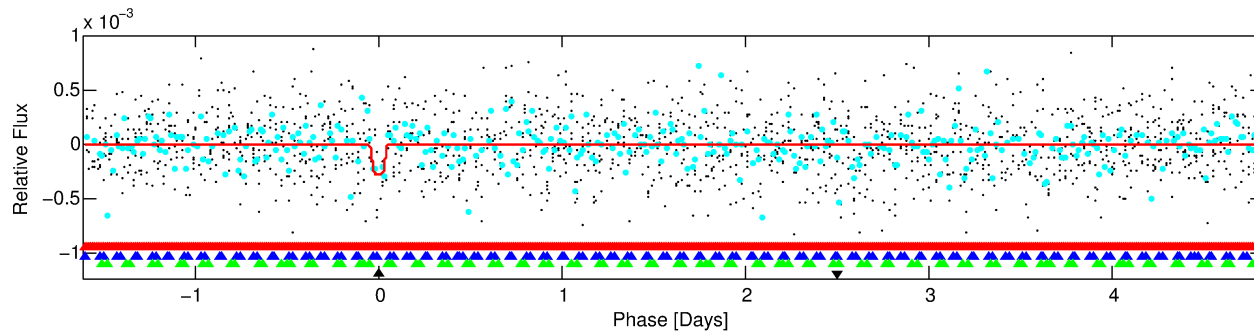
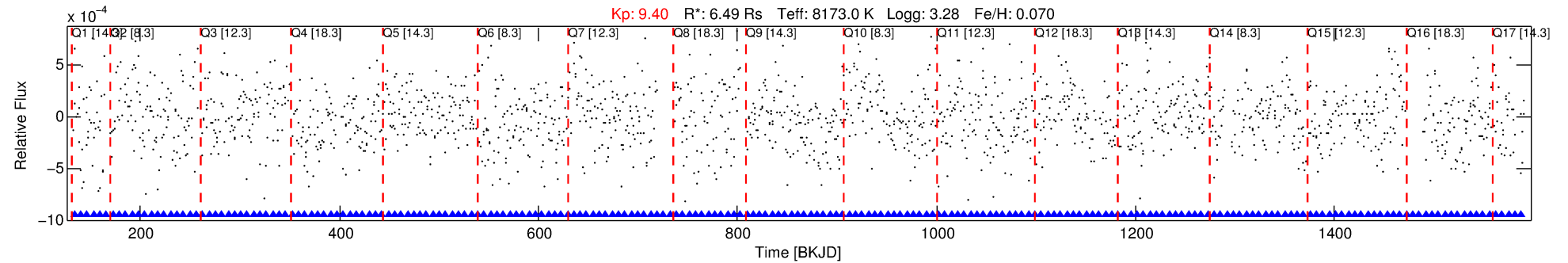
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006289468-04

No Significant Match Found

DV One-Page Summary

KIC: 6289468 Candidate: 4 of 4 Period: 6.434 d



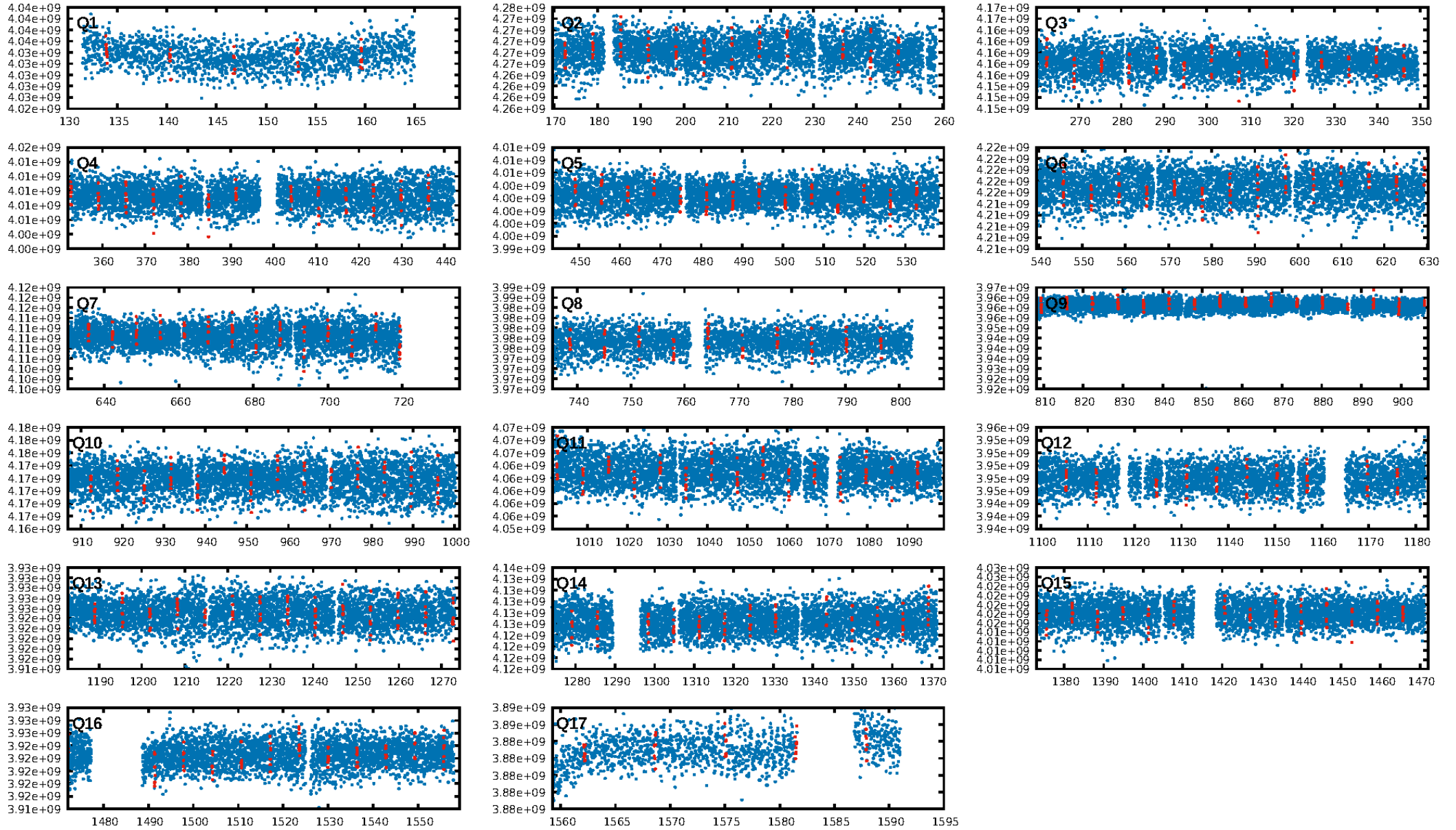
DV Fit Results:

Period = 6.43377 [0.00011] d
Epoch = 133.8859 [0.0153] BKJD
Rp/R* = 0.0158 [0.0419]
a/R* = 23.29 [338.57]
b = 0.48 [23.55]
Seff = 17921.95 [9666.66]
Teff = 2950 [398] K
Rp = 11.20 [29.98] Re
a = 0.0970 [0.0331] AU
Ag = 10.19 [54.45] [0.17 σ]
Teffp = 8150 [10832] K [0.48 σ]

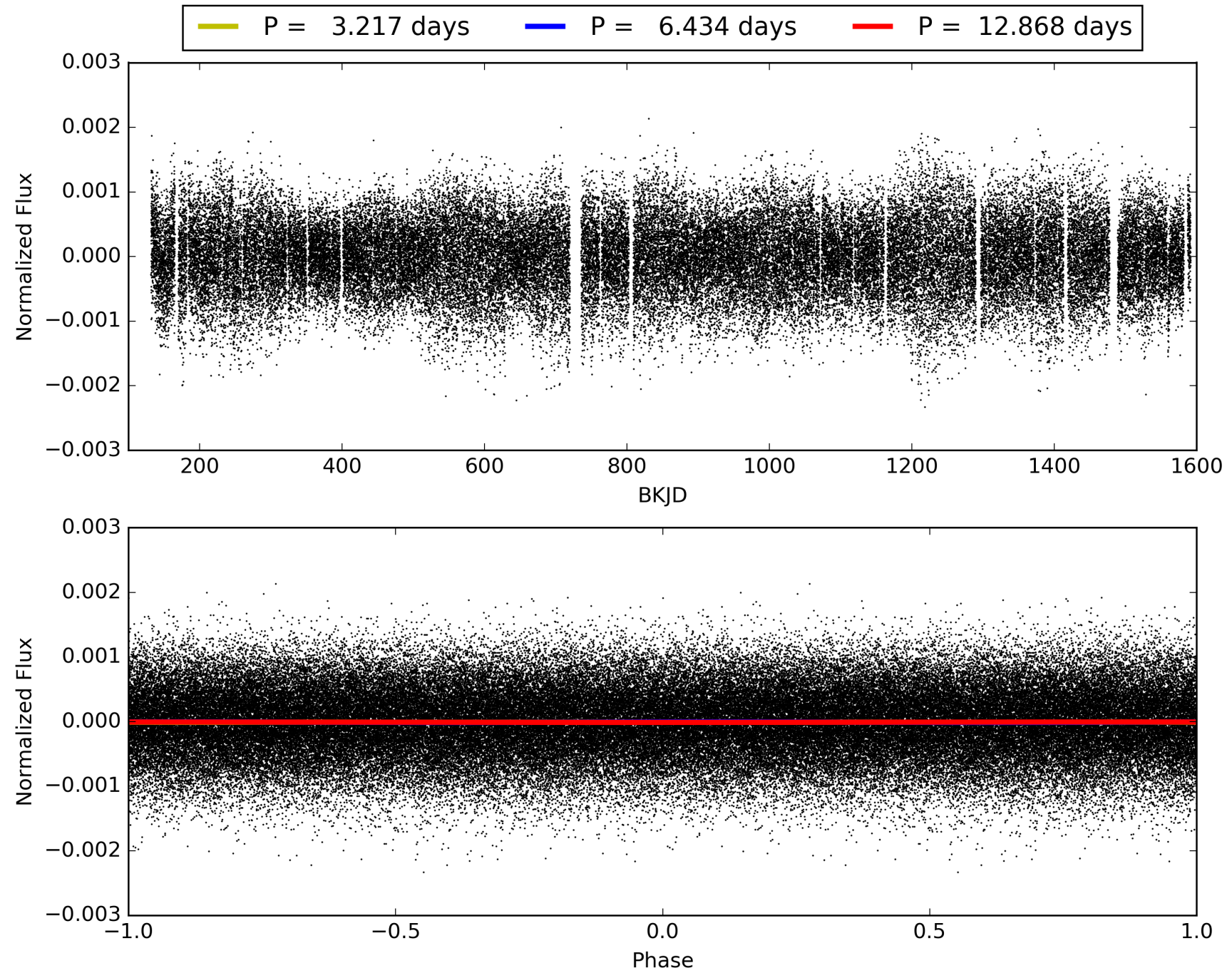
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [27.95 σ]
LongPeriod-sig: 100.0% [49.03 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 2.26e-07
RollingBand-fgt: 1.00 [22/22]
GhostDiagnostic-chr: N/A
Centroid-sig: 36.6%
Centroid-so: 0.127 arcsec [0.86 σ]
OotOffset-rm: 3.889 arcsec [3.97 σ]
KicOffset-rm: 6.044 arcsec [3.89 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006289468-04, PDC Light Curves

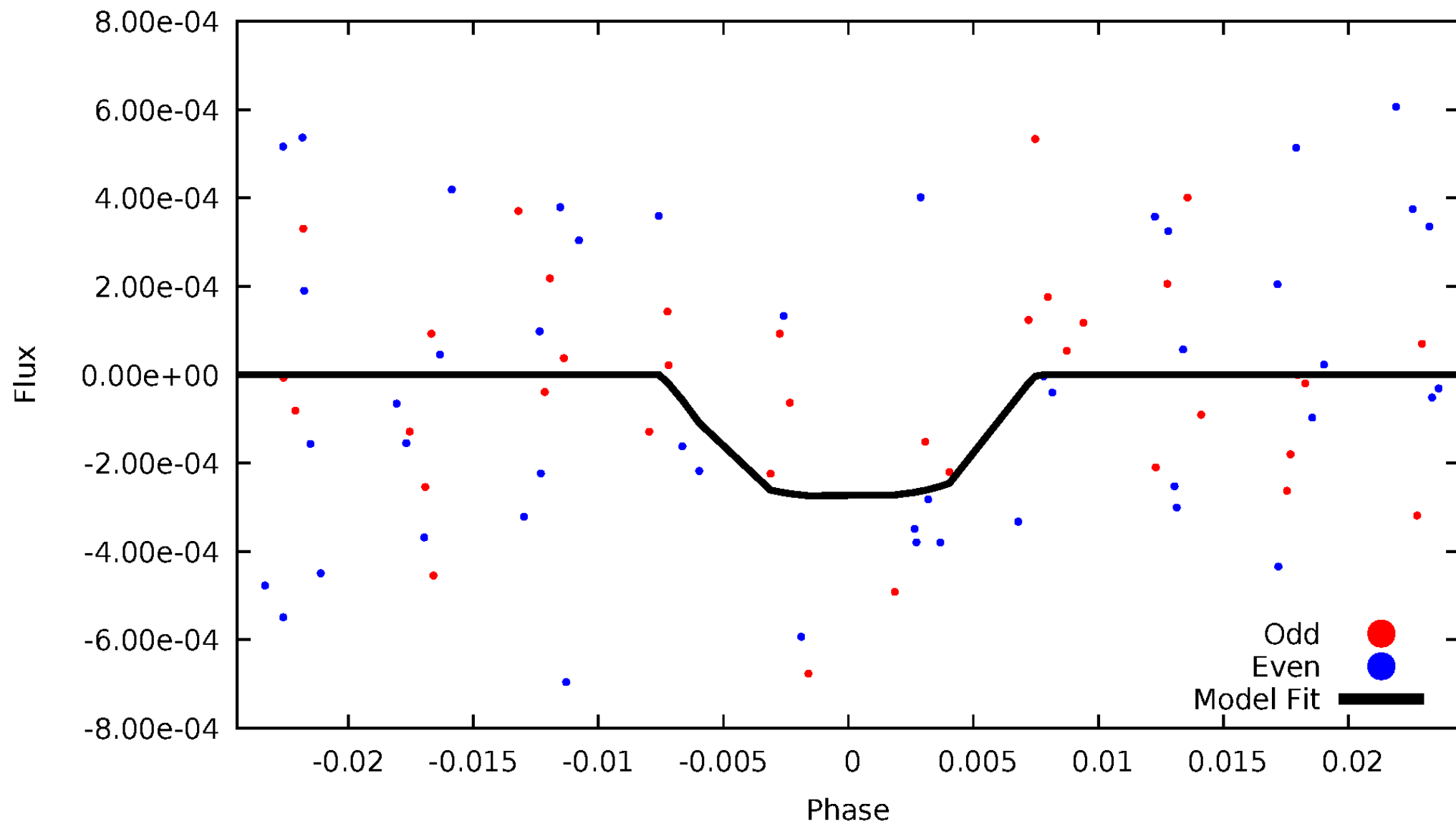


TCE 006289468-04



DV Odd/Even

TCE 006289468-04

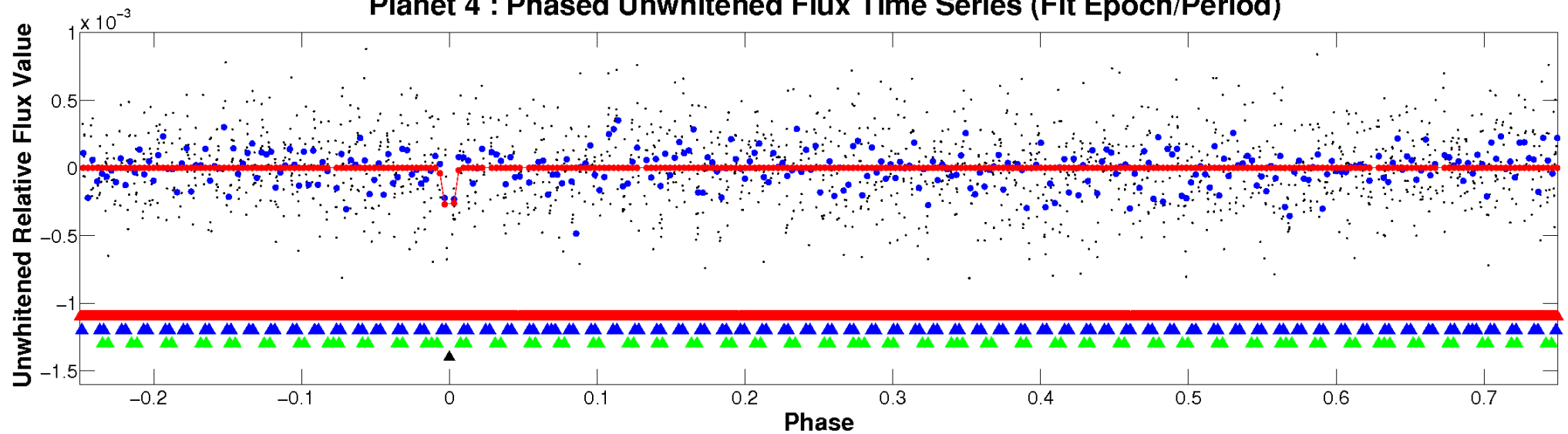


ALT Odd/Even

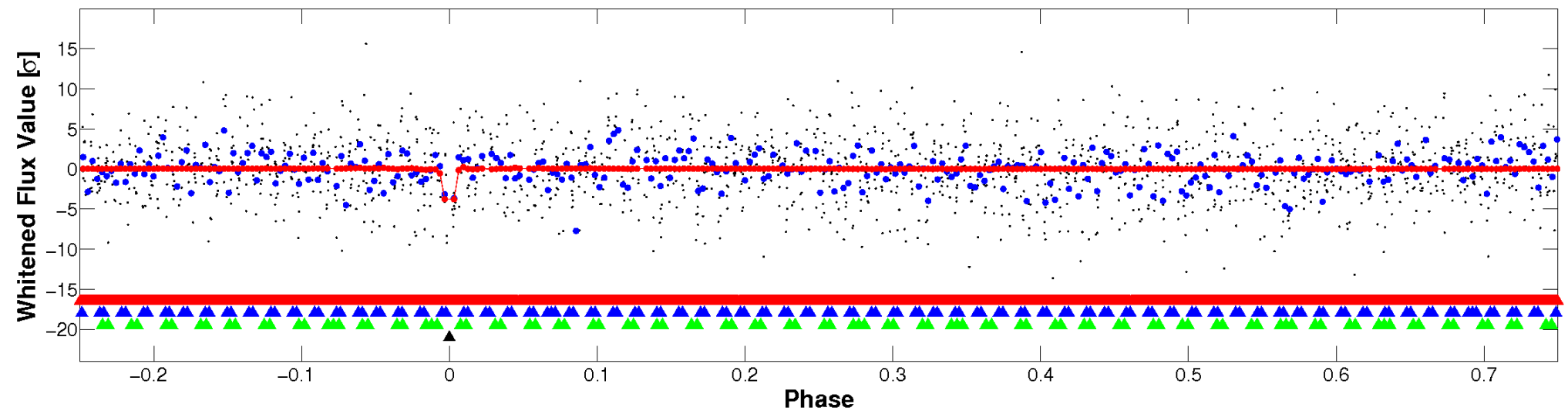
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

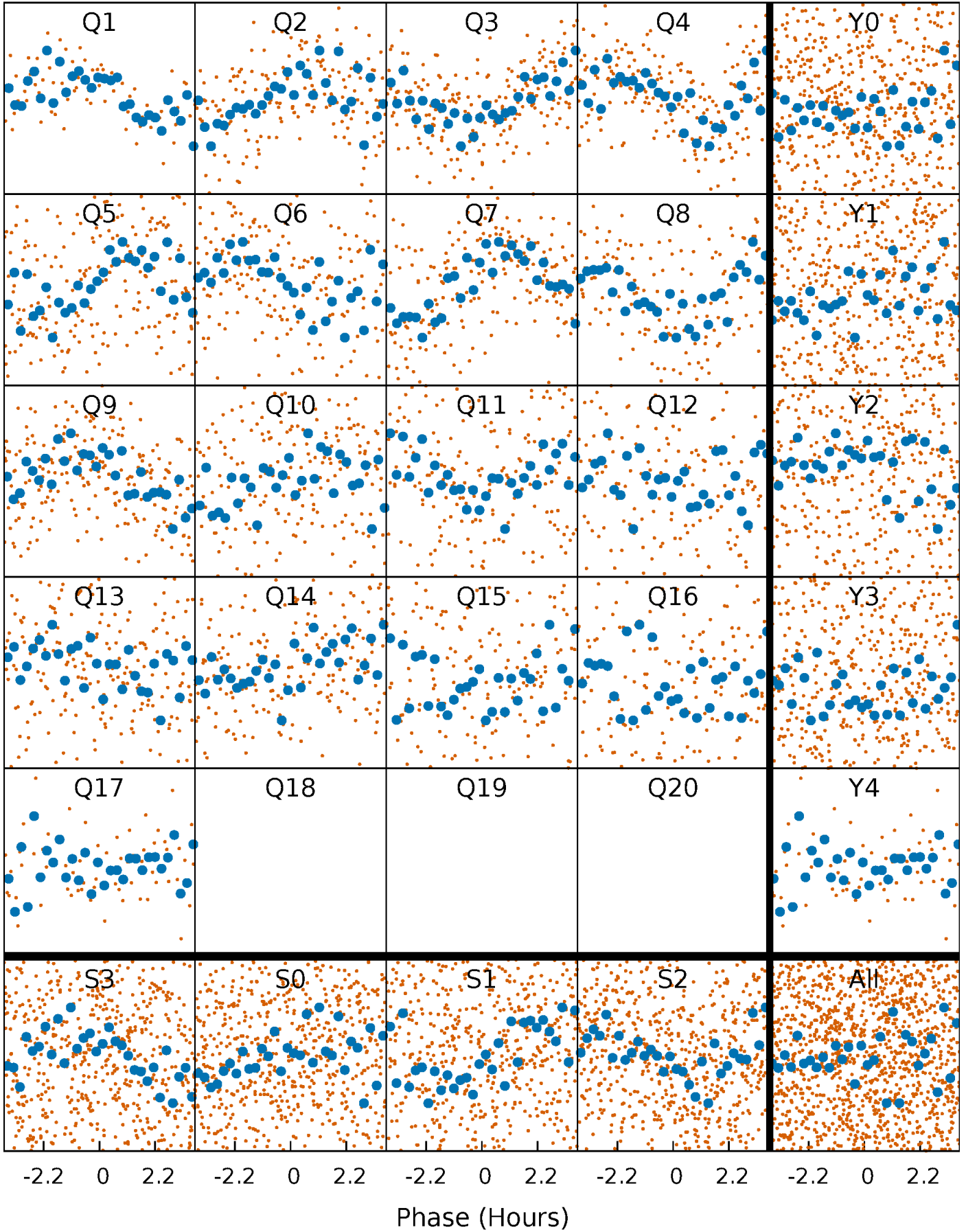


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



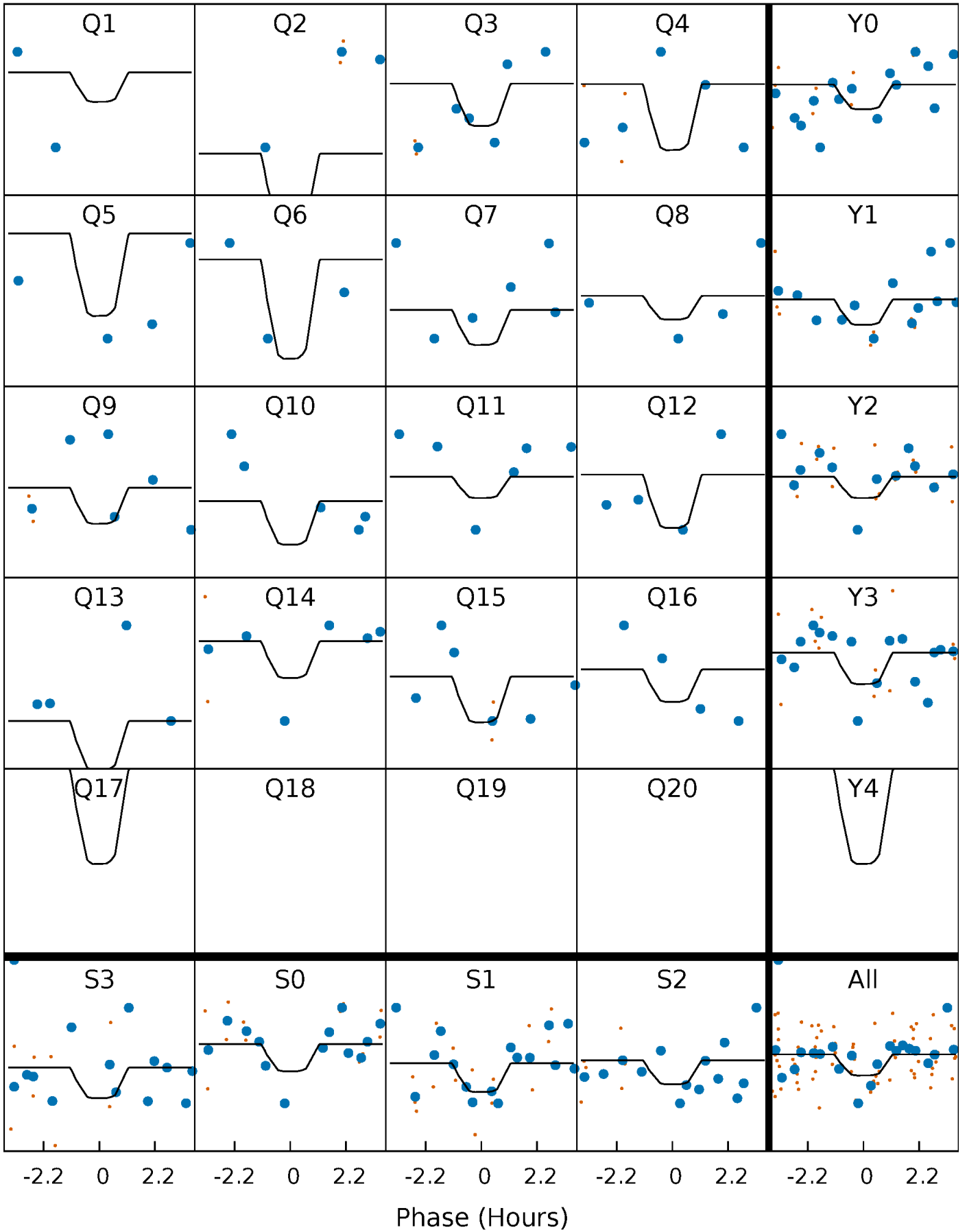
PDC Quarter-Phased Transit Curves

TCE 006289468-04 P= 6.433770 Days $T_0=133.885937$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006289468-04 P= 6.433770 Days $T_0=133.885937$ (BKJD)

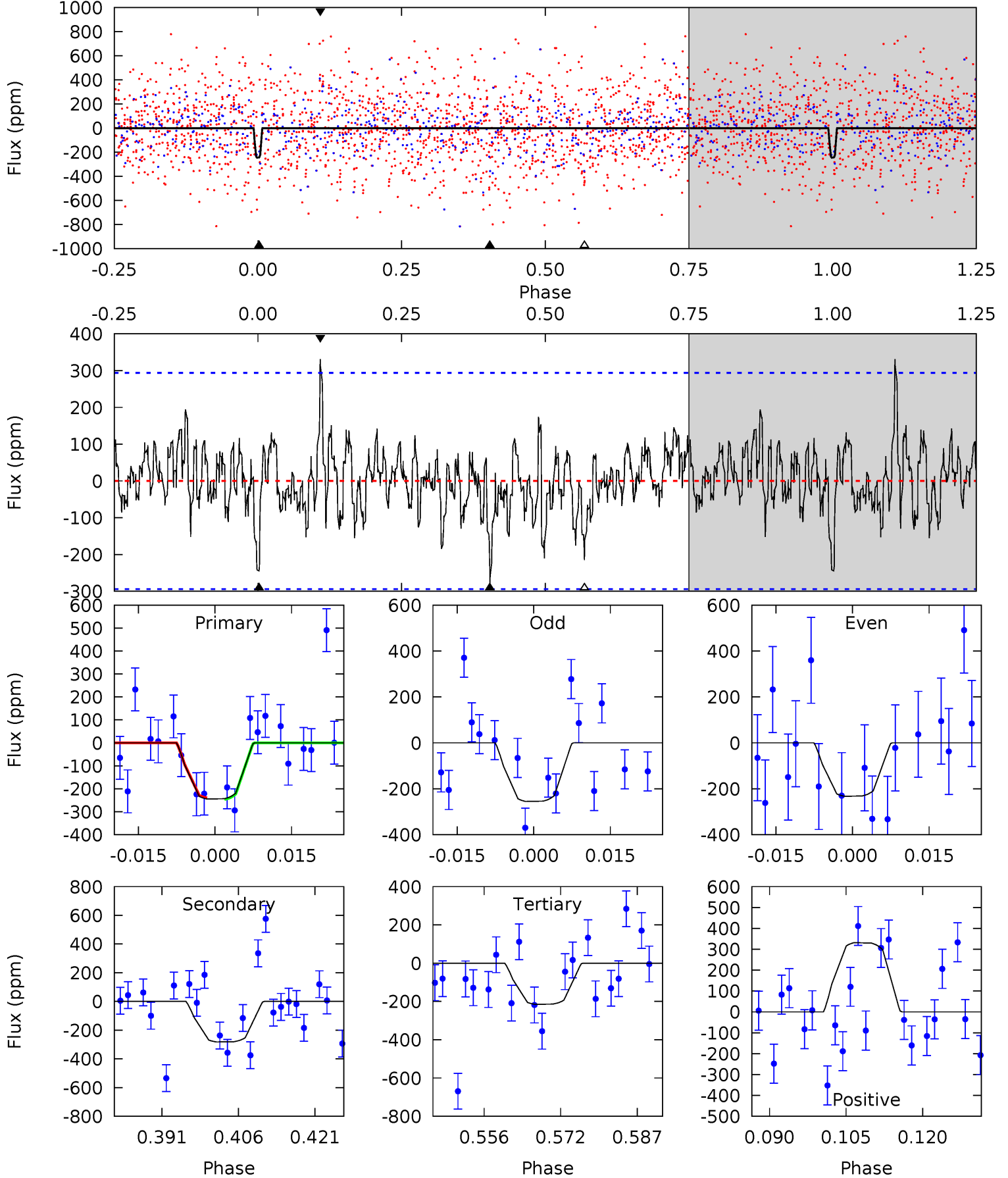


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006289468-04, P = 6.433770 Days, E = 127.452167 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.12	4.75	3.62	5.58	4.95	2.43	1.18	0.50	-1.46	1.13	-0.83	0.19	0	0.54	0.06



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006289468

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8173^{+145}_{-178}	$3.281^{+0.307}_{-0.102}$	$0.070^{+0.150}_{-0.050}$	$6.492^{+1.205}_{-2.410}$	$2.933^{+0.185}_{-0.402}$	$0.015^{+0.032}_{-0.005}$
	+2%/-2%	+9%/-3%	+214%/-71%	+19%/-37%	+6%/-14%	+210%/-31%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 006289468-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-282 ± 59	$22.88^{+25.50}_{-16.19}$	4064^{+243}_{-366}	5319^{+5957}_{-1674}	$2.674^{+26.972}_{-2.076}$
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 $A_{\text{obs}} \gg 1.0$

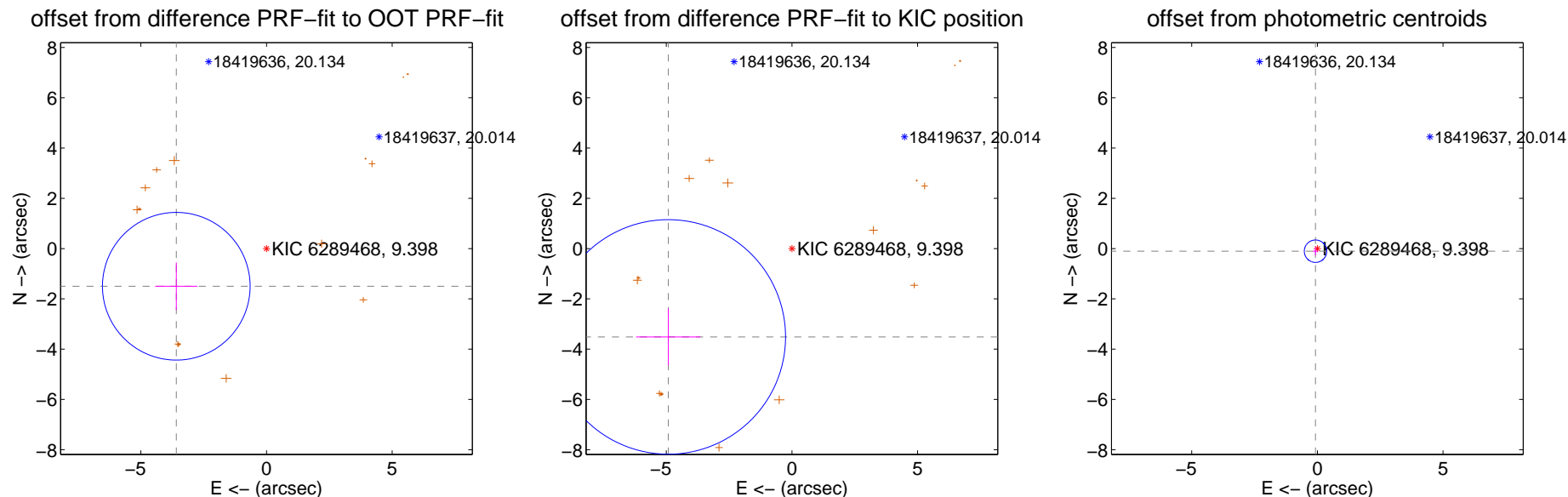
DV Centroid Data

Supplemental centroid analysis for 006289468-04. **Kepler magnitude: 9.40.** Transit SNR 13.92

There are 0 quarters with good PRF difference image offsets

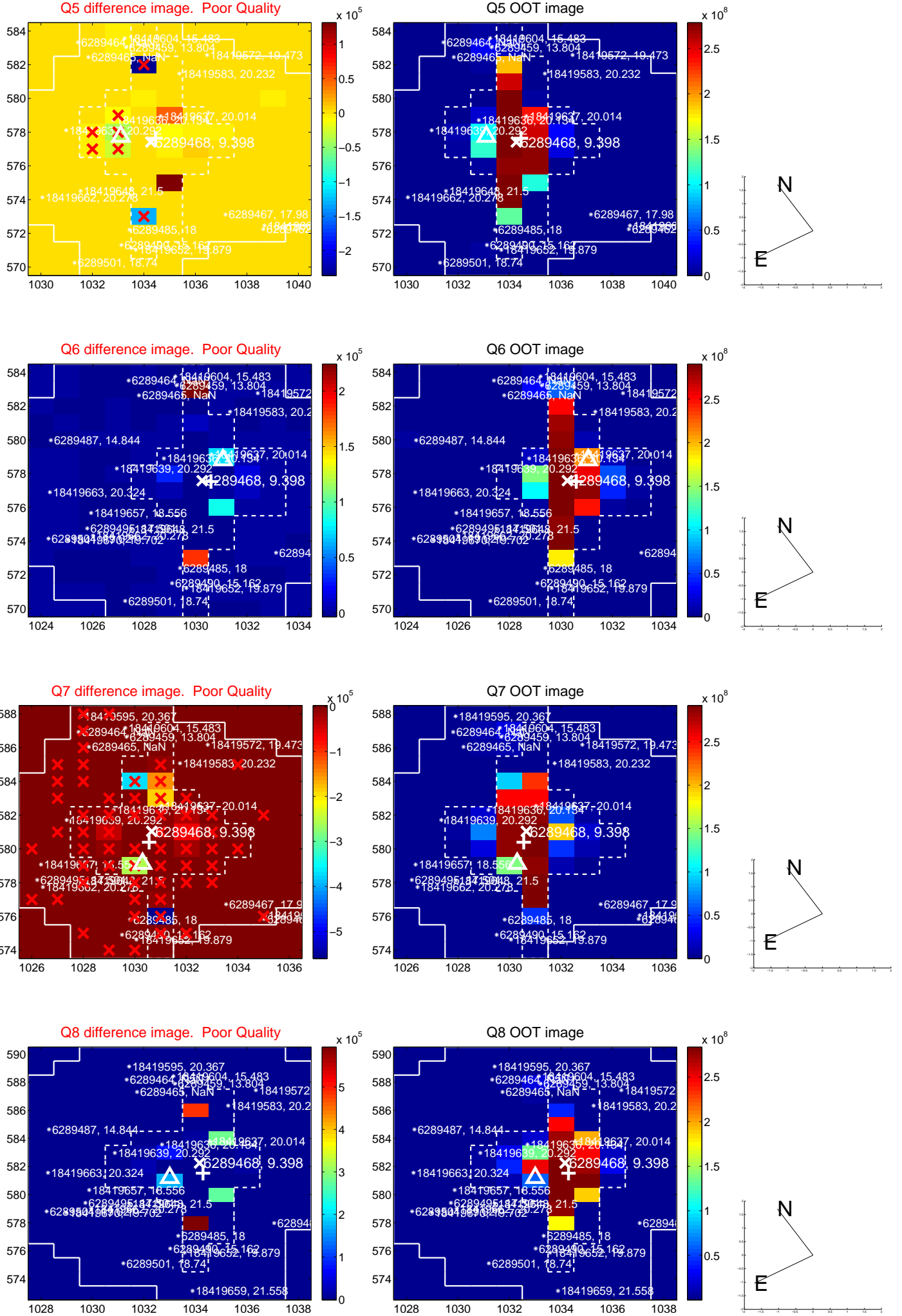
The direct PRF centroid is offset from the target star catalog position by about 1.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.889 ± 0.979	3.97	3.589 ± 0.845	-1.498 ± 0.946
PRF-fit source offset from KIC position	6.044 ± 1.554	3.89	4.918 ± 1.282	-3.513 ± 1.133
photometric centroid source offset	0.13 ± 0.15	0.86	0.07 ± 0.11	-0.10 ± 0.16

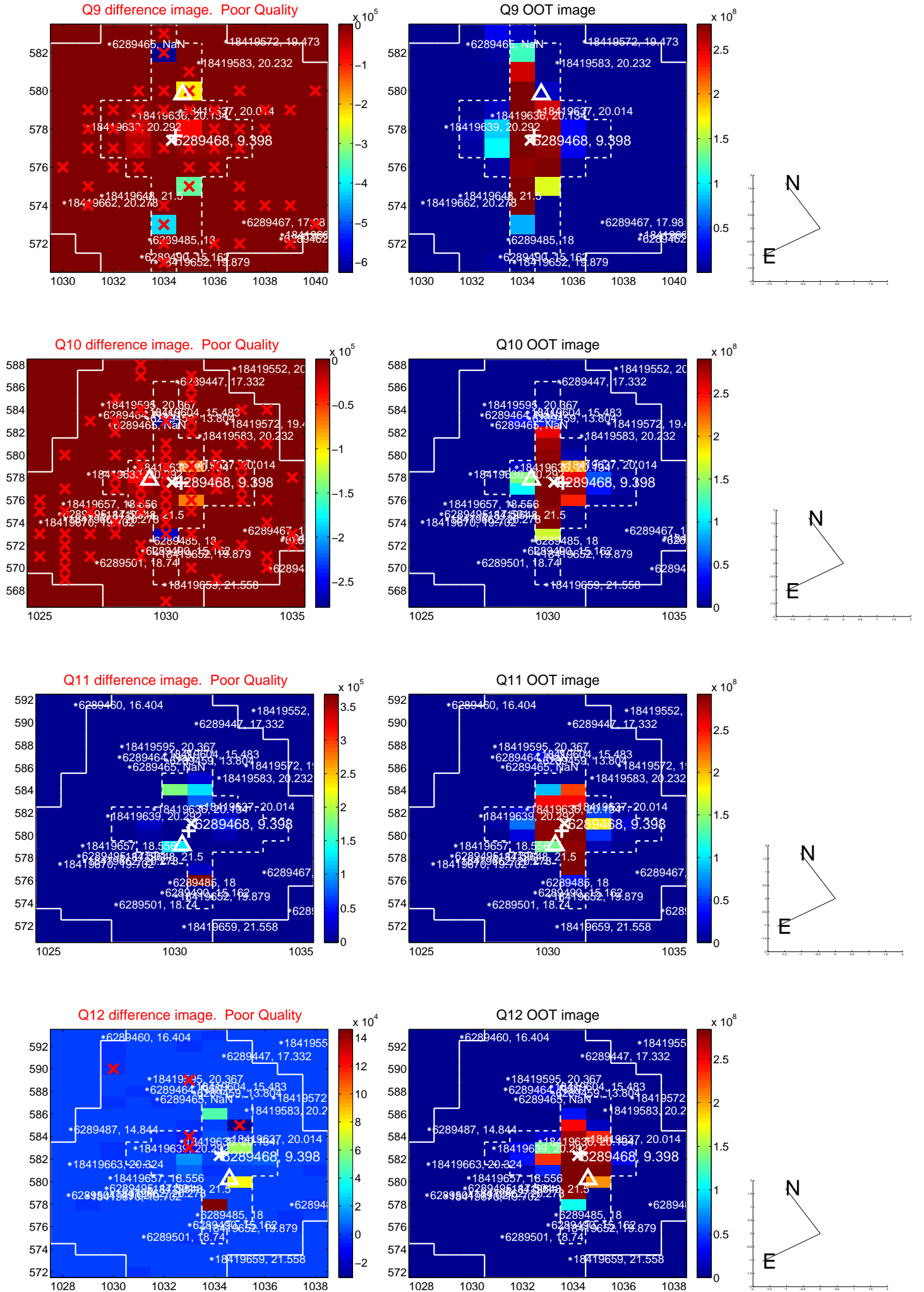


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

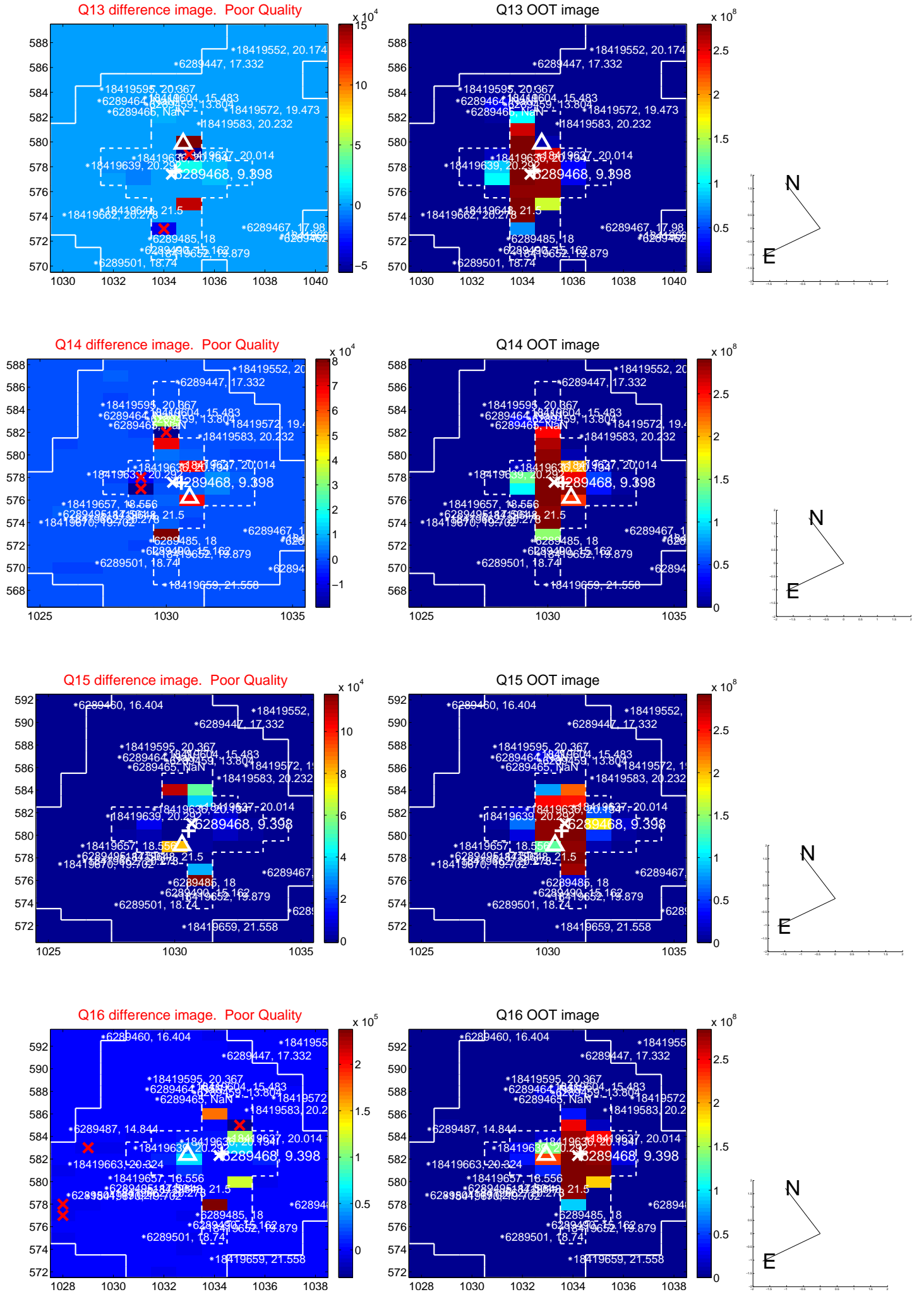
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



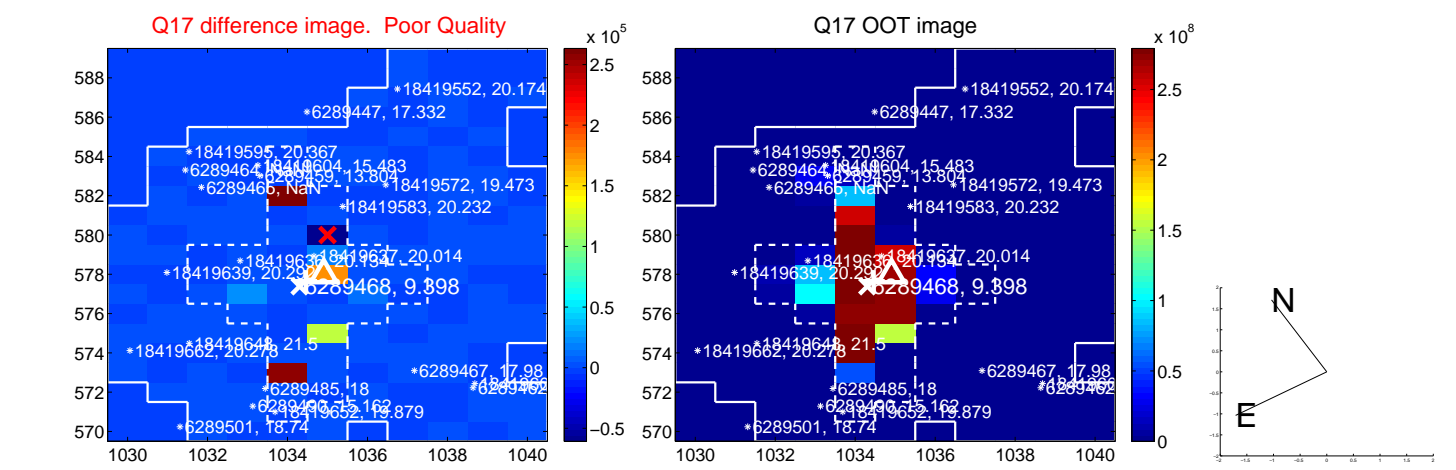
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



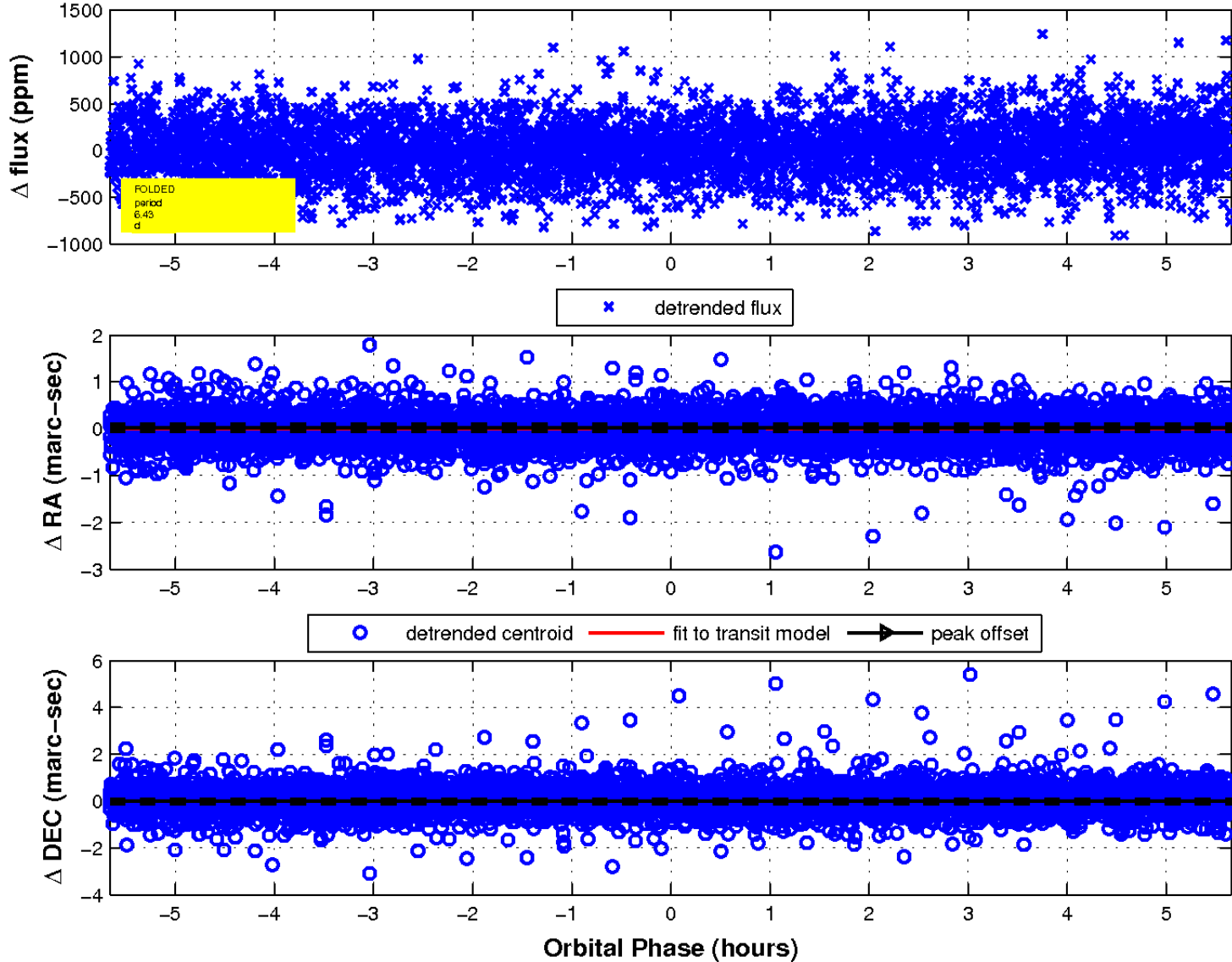
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 4 of 4



UKIRT Image

Declination

