

KIC 005879187

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})
005879187-01	OBS	No	0.906825	132.272824	92.0	2.390	12.5	13.3	2.07	7505	2.30	25672.72
005879187-02	OBS	No	0.604532	131.679280	85.7	1.844	10.9	11.1	2.07	7505	2.22	44083.60
005879187-03	OBS	No	0.604525	131.979392	47.5	2.731	9.0	6.5	2.07	7505	1.47	44084.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879187-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005879187-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005879187-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD

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

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

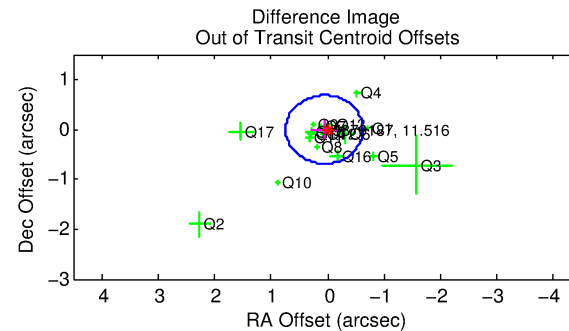
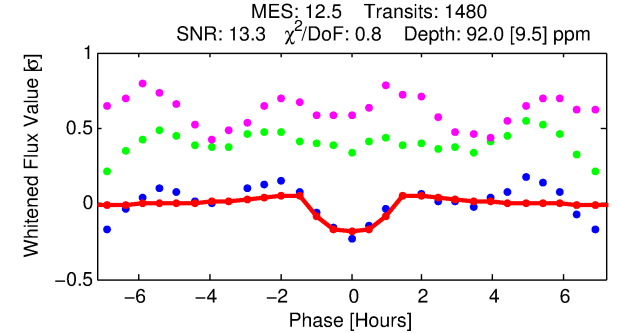
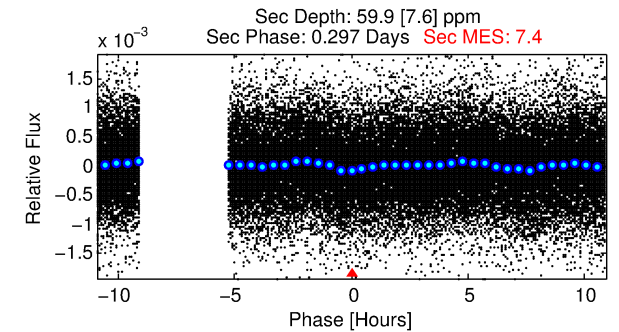
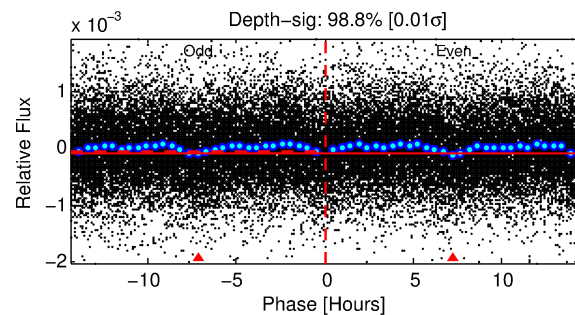
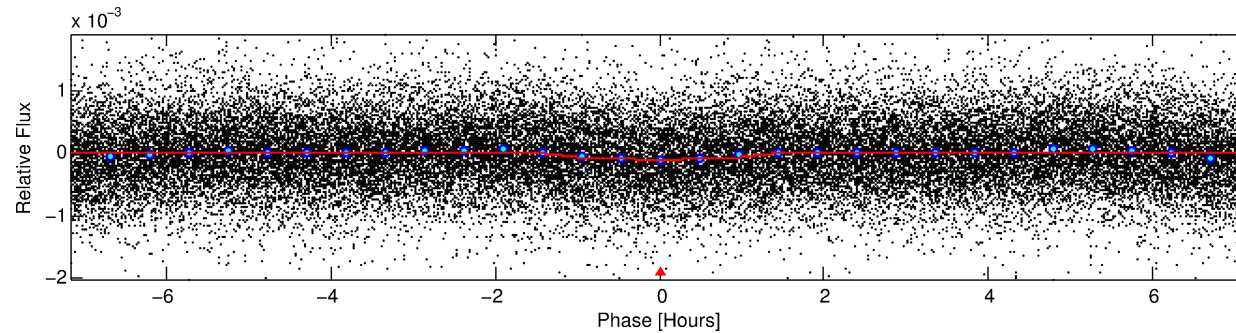
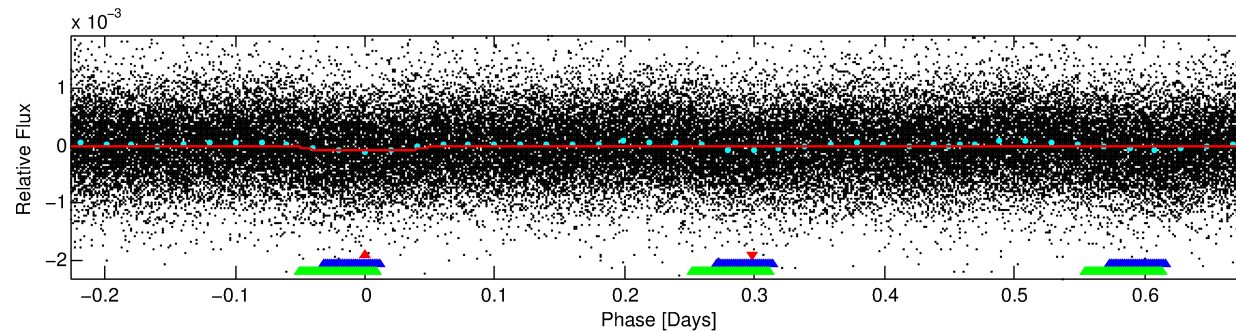
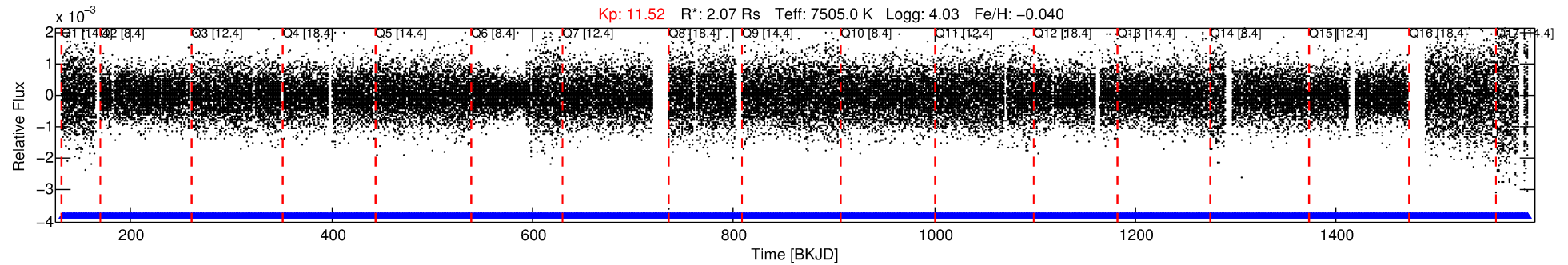
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879187-01

No Significant Match Found

DV One-Page Summary

KIC: 5879187 Candidate: 1 of 3 Period: 0.907 d



DV Fit Results:

Period = 0.90682 [0.00001] d
Epoch = 132.2728 [0.0020] BKJD
Rp/R* = 0.0102 [0.0034]
a/R* = 1.62 [2.21]
b = 0.90 [0.46]
Seff = 25672.73 [5481.37]
Teq = 3228 [172] K
Rp = 2.30 [0.87] Re
a = 0.0218 [0.0031] AU
Ag = 2.95 [2.13] [0.92 σ]
Teffp = 6543 [1128] K [2.90 σ]

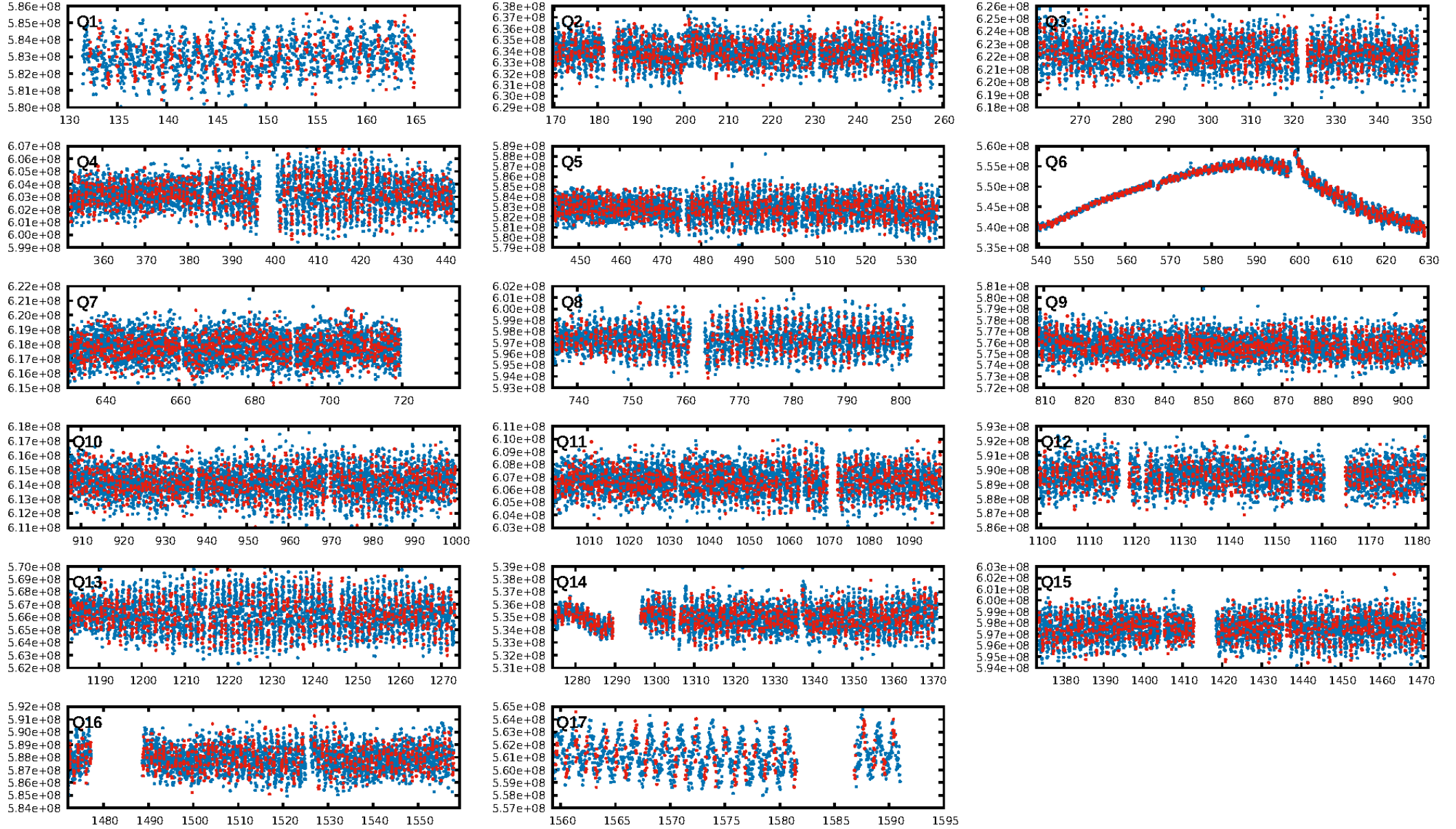
DV Diagnostic Results:

ShortPeriod-sig: 98.4% [2.40 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.93e-32
RollingBand-fgt: 1.00 [1413/1413]
GhostDiagnostic-chr: 1.222
Centroid-sig: N/A
Centroid-so: 0.066 arcsec [0.61 σ]
OotOffset-rm: 0.058 arcsec [0.25 σ]
KicOffset-rm: 0.088 arcsec [0.54 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.88 [15/17]
DiffImageOverlap-fno: 0.00 [0/17]

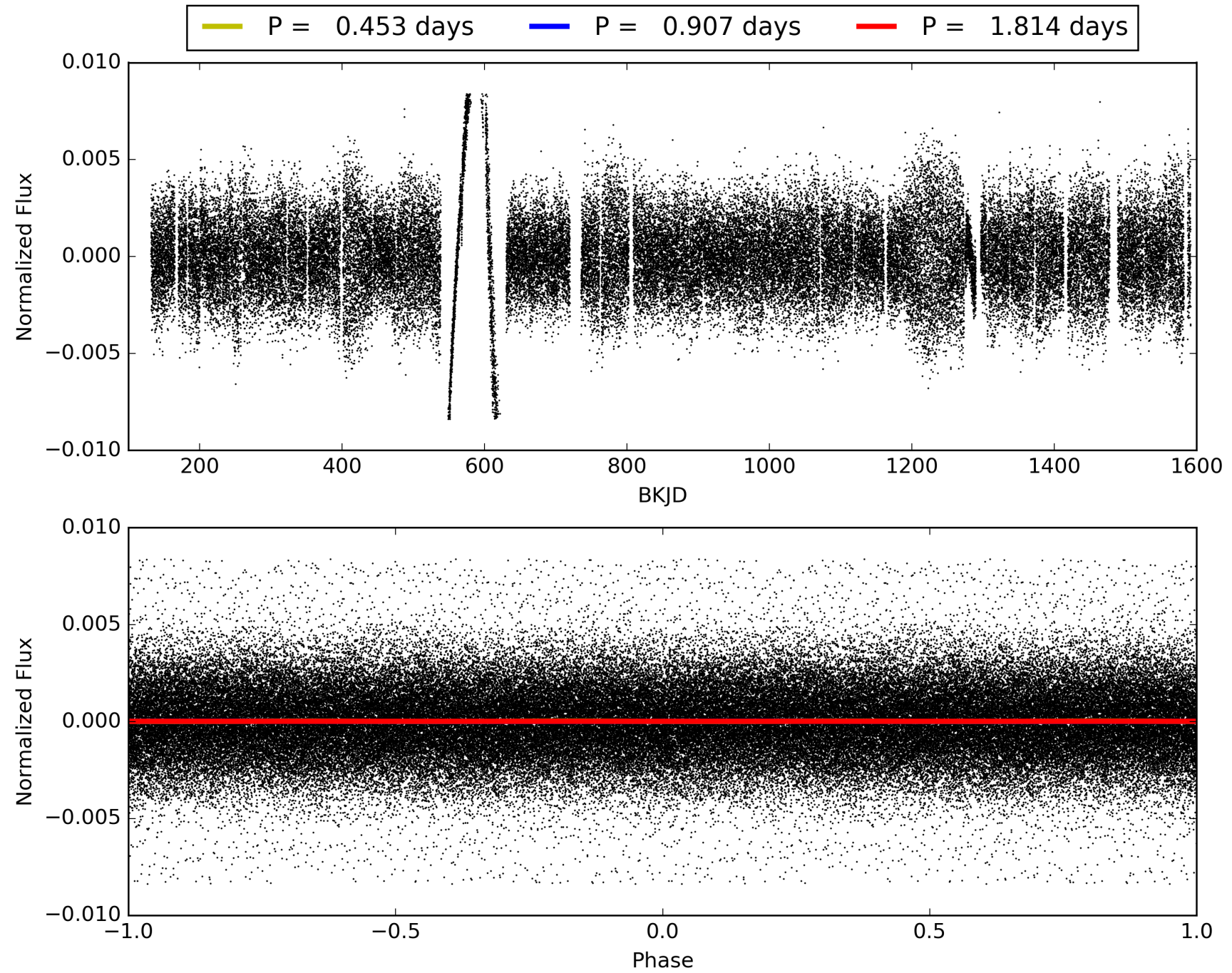
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:46:08 Z

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

TCE 005879187-01, PDC Light Curves

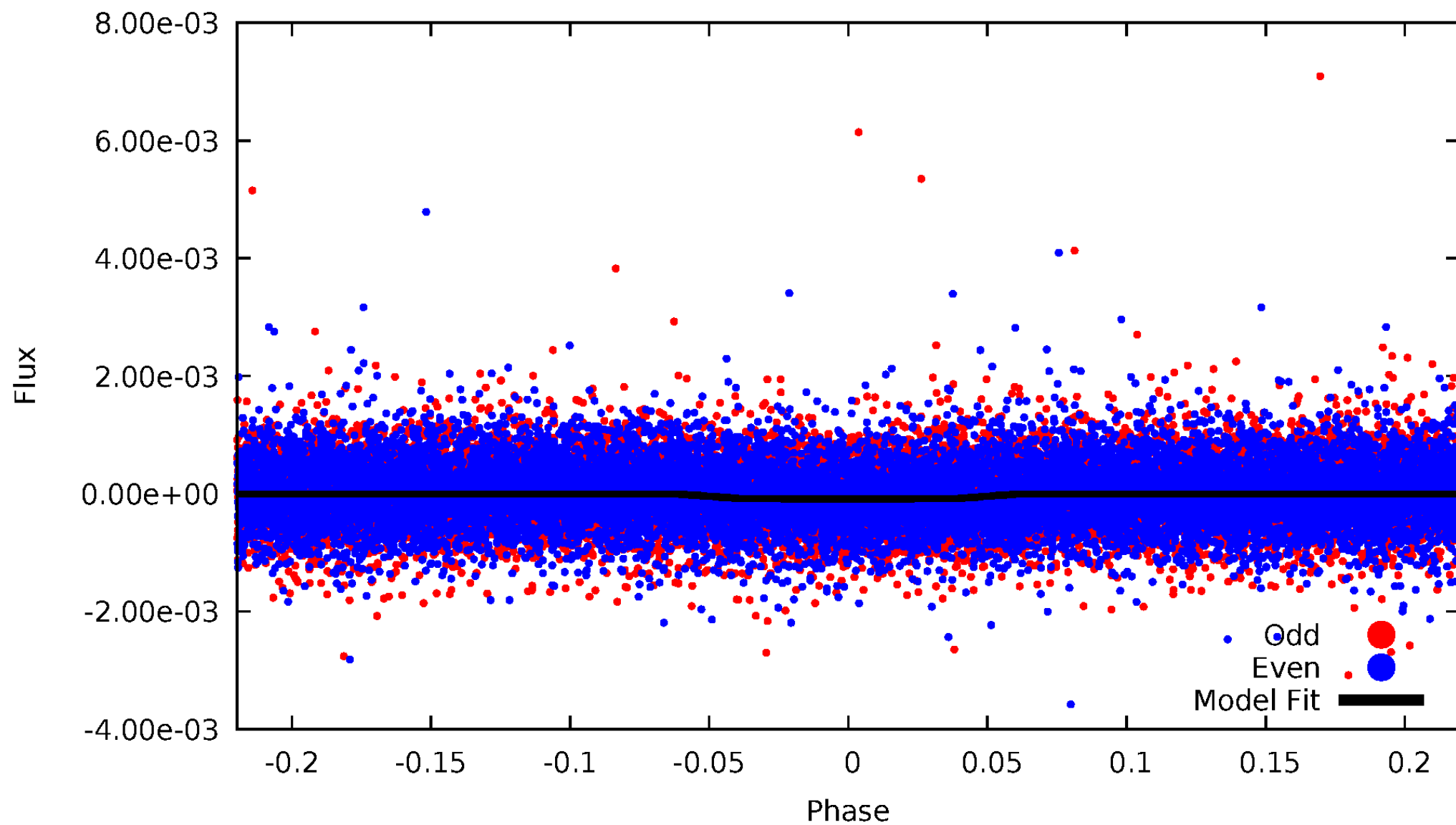


TCE 005879187-01



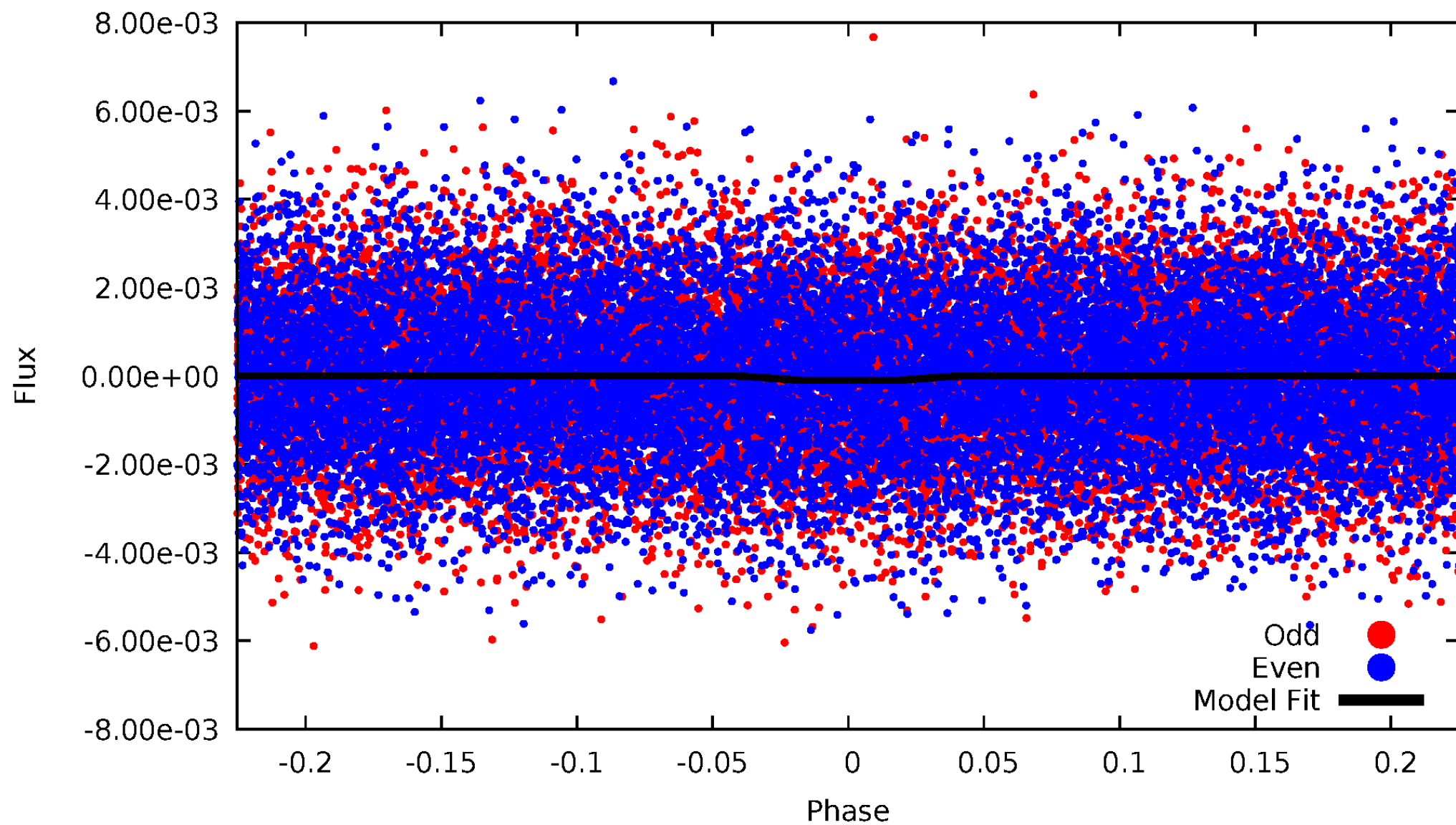
DV Odd/Even

TCE 005879187-01

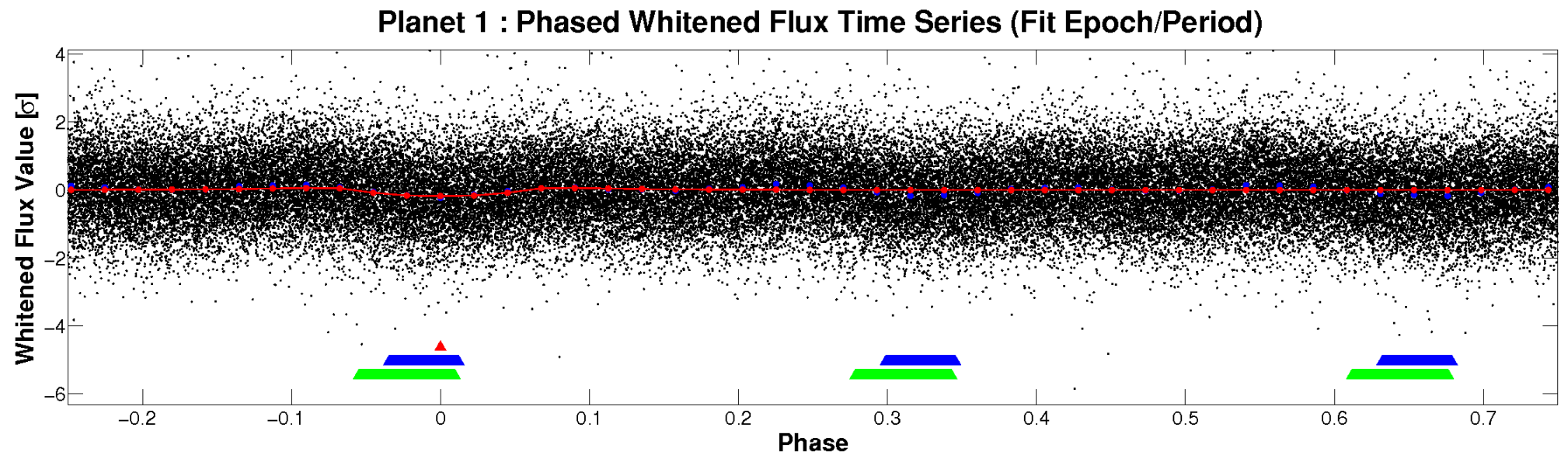
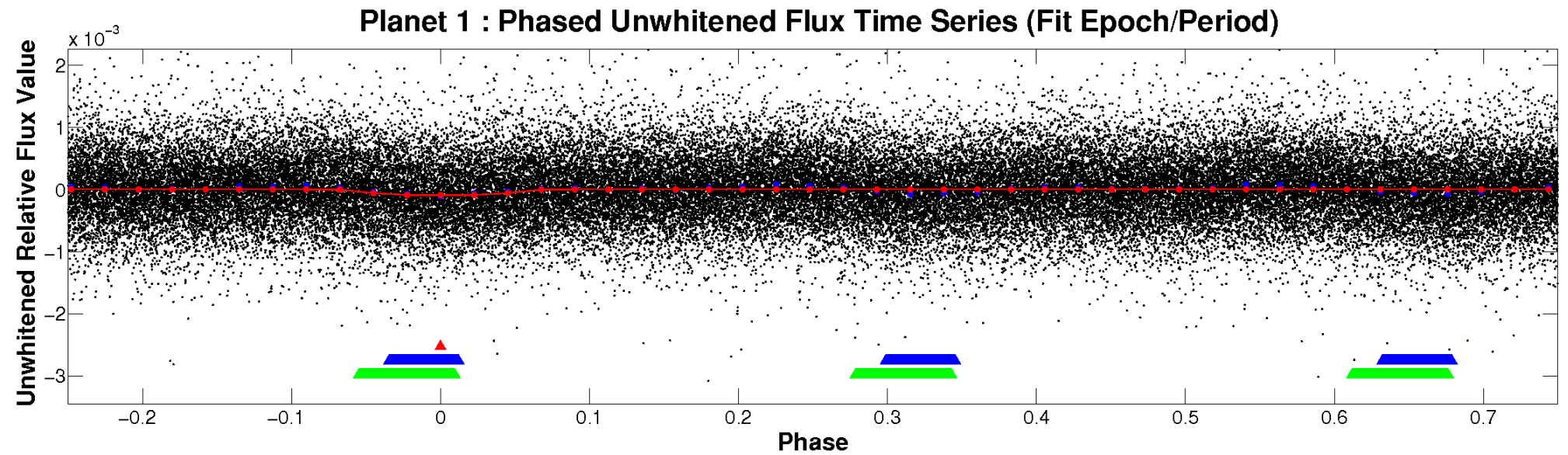


ALT Odd/Even

TCE 005879187-01

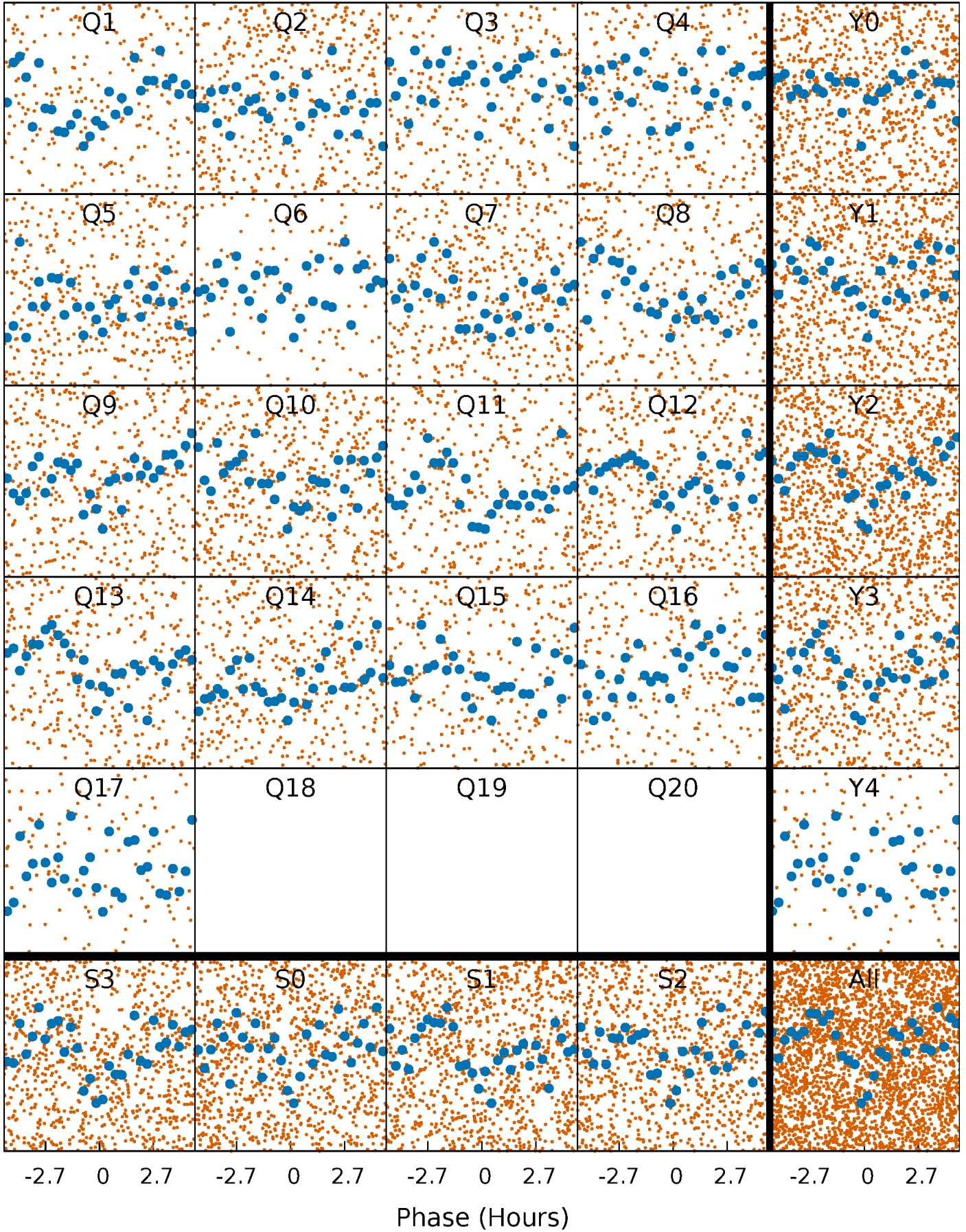


Non-Whitened Vs. Whitened Light Curve



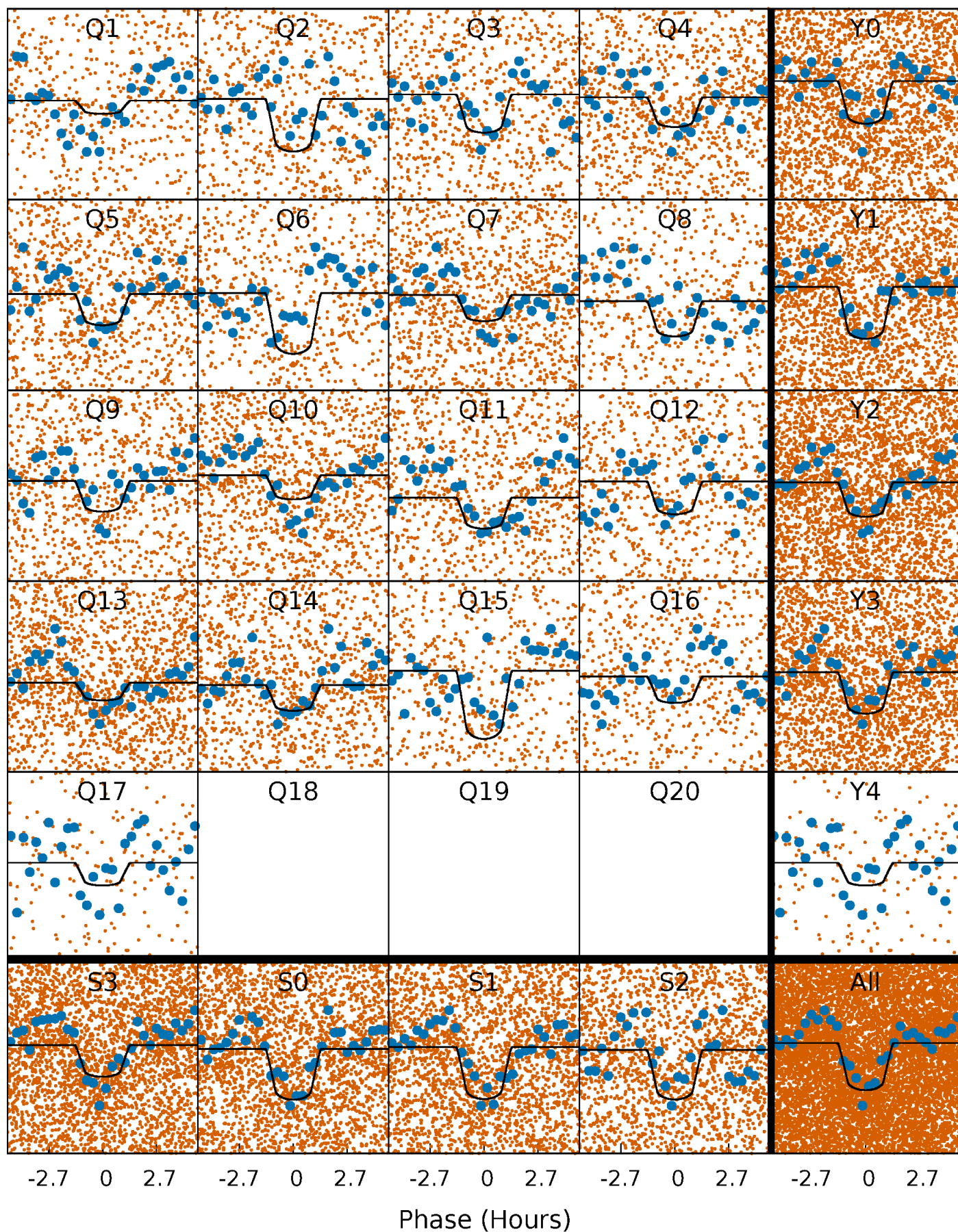
PDC Quarter-Phased Transit Curves

TCE 005879187-01 P= 0.906825 Days $T_0=132.272824$ (BKJD)



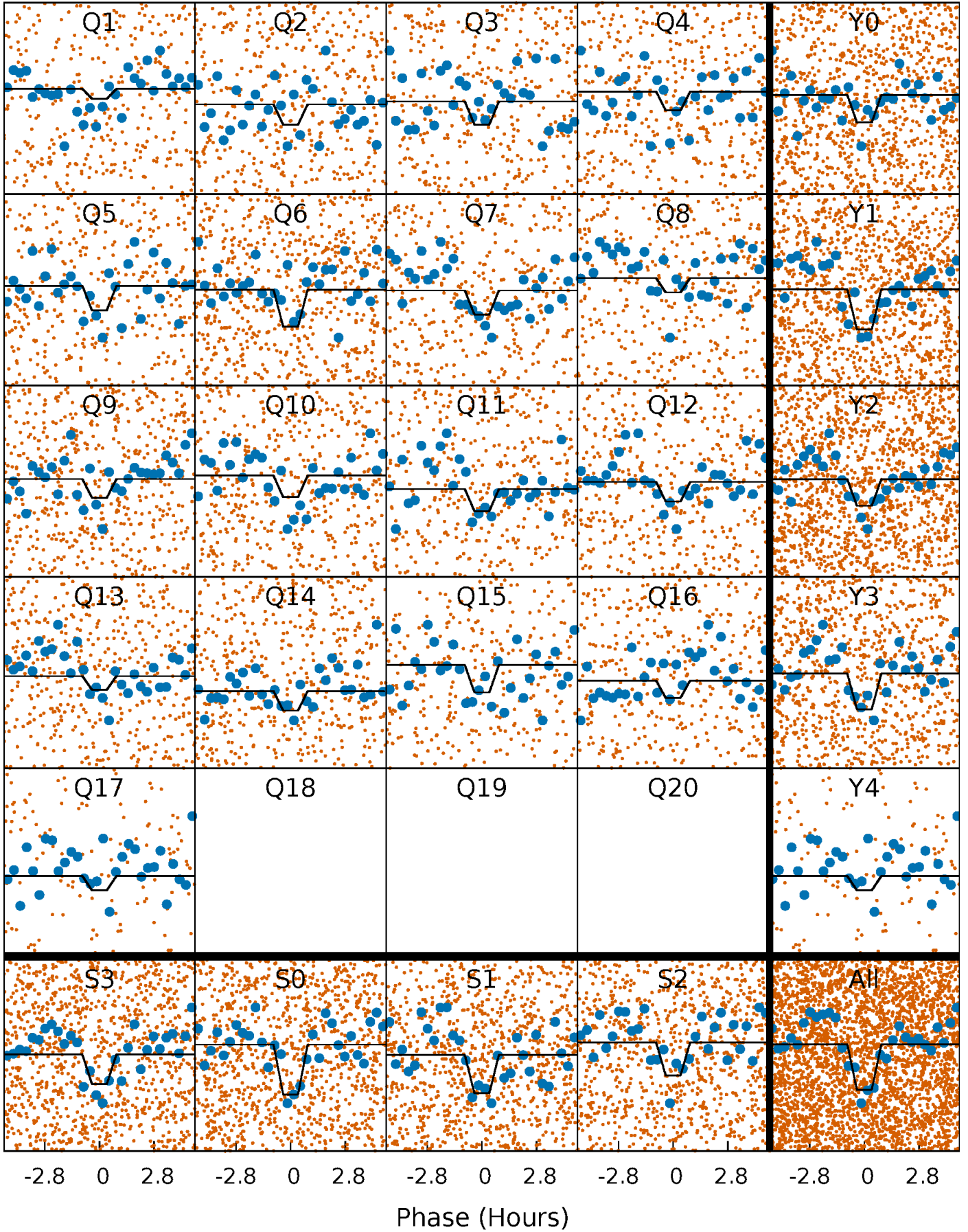
DV Quarter-Phased Transit Curves

TCE 005879187-01 P= 0.906825 Days $T_0=132.272824$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

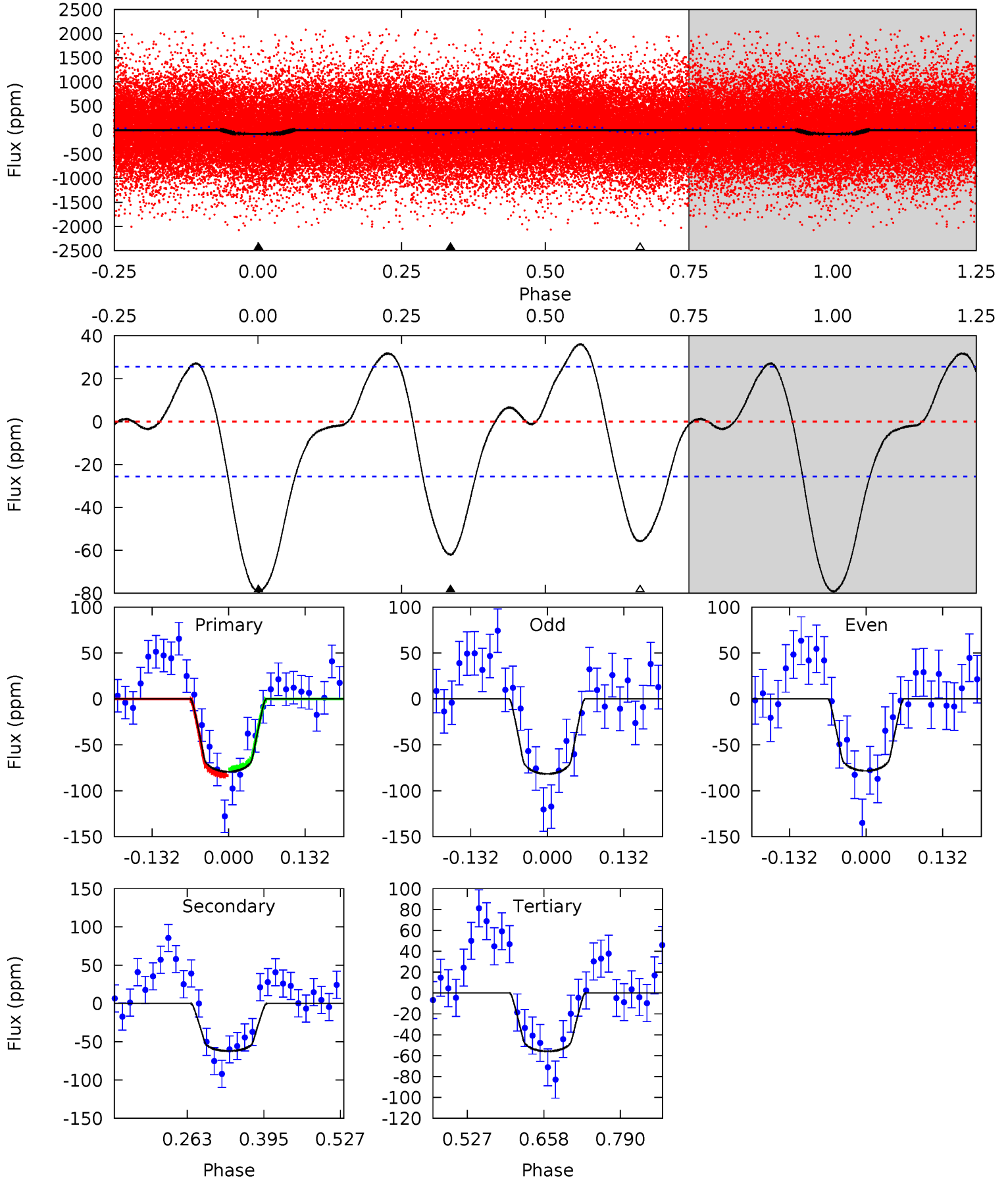
TCE 005879187-01 P= 0.906821 Days $T_0=132.272459$ (BKJD)



DV Model-Shift Uniqueness Test

005879187-01, P = 0.906825 Days, E = 131.365999 Days

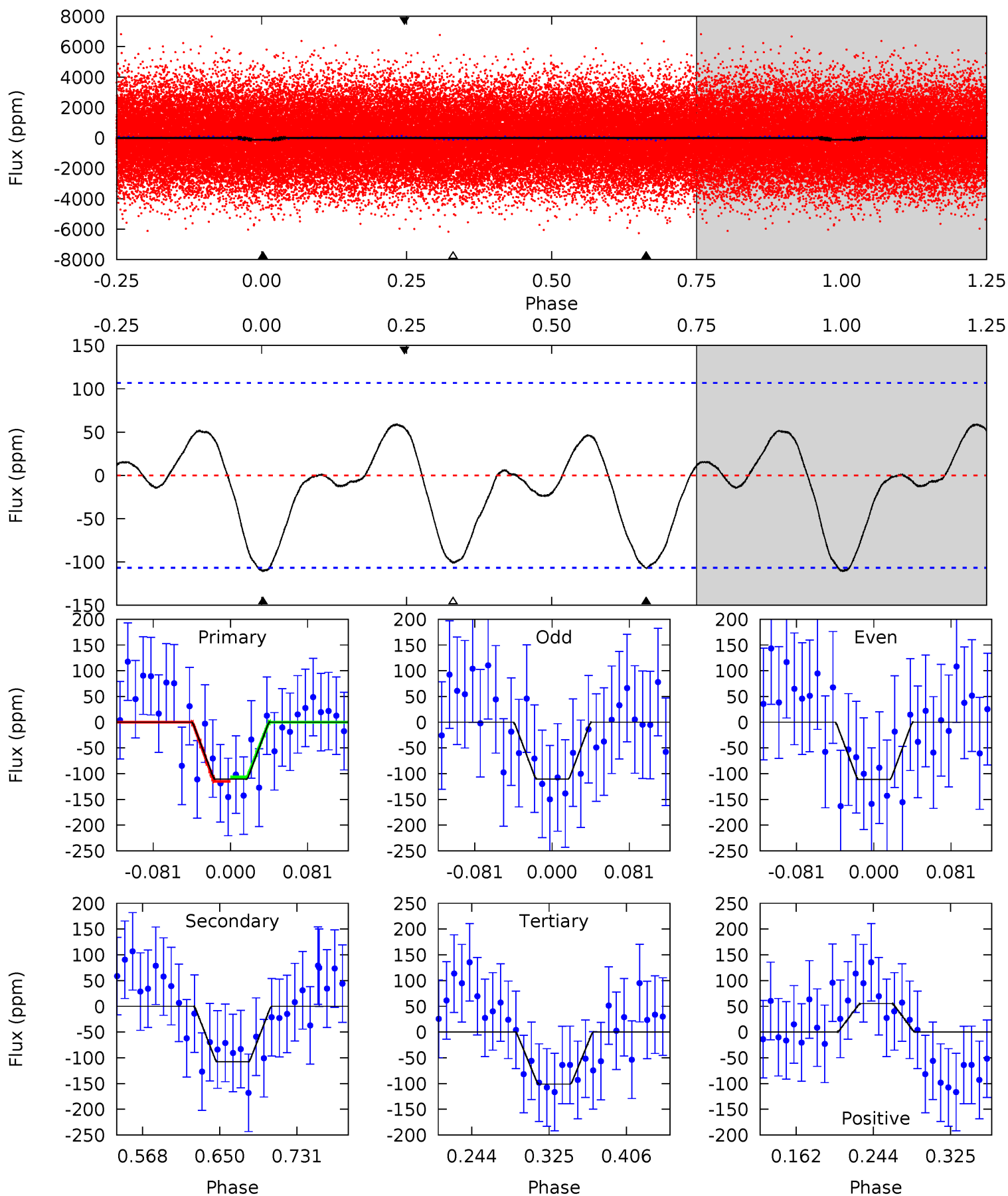
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.0	10.9	9.83	0	4.51	1.51	4.31	4.13	14.0	1.10	10.9	0.29	0.98	0.31	0.63



Alt Model-Shift Uniqueness Test

005879187-01, P = 0.906821 Days, E = 131.365638 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.77	4.64	4.36	2.39	4.61	1.74	1.66	0.42	2.39	0.28	2.25	0.01	1.22	0.35	0.19



Stellar Parameters For KIC 005879187

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7505^{+82}_{-75}	$4.031^{+0.115}_{-0.103}$	$-0.040^{+0.150}_{-0.150}$	$2.074^{+0.348}_{-0.313}$	$1.682^{+0.151}_{-0.136}$	$0.266^{+0.138}_{-0.091}$
	+1%/-1%	+3%/-3%	+375%/-375%	+17%/-15%	+9%/-8%	+52%/-34%
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 005879187-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-62 ± 6	$2.30^{+0.82}_{-0.74}$	4503^{+191}_{-181}	6294^{+1686}_{-912}	$3.049^{+3.823}_{-1.404}$
Alt.	-107 ± 23	$2.25^{+0.85}_{-0.80}$	4505^{+178}_{-177}	7564^{+2635}_{-1476}	$5.473^{+7.639}_{-2.802}$

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 $A_{obs} \gg 1.0$

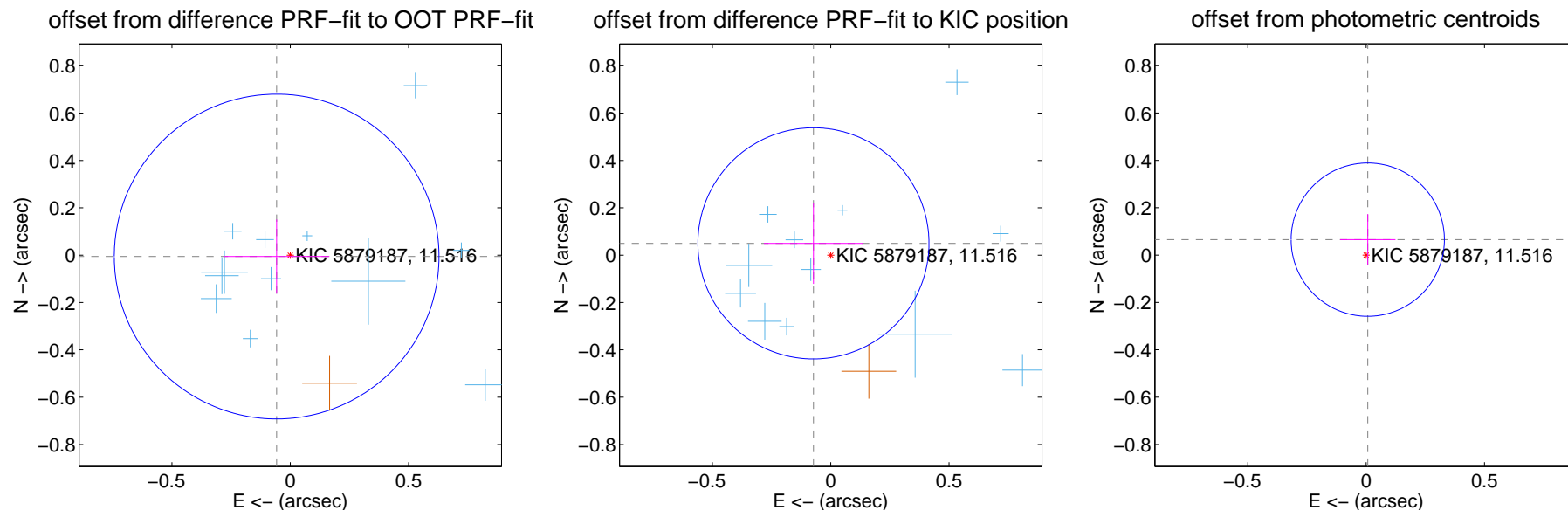
DV Centroid Data

Supplemental centroid analysis for 005879187-01. **Kepler magnitude: 11.52.** Transit SNR 13.27

There are 15 quarters with good PRF difference image offsets

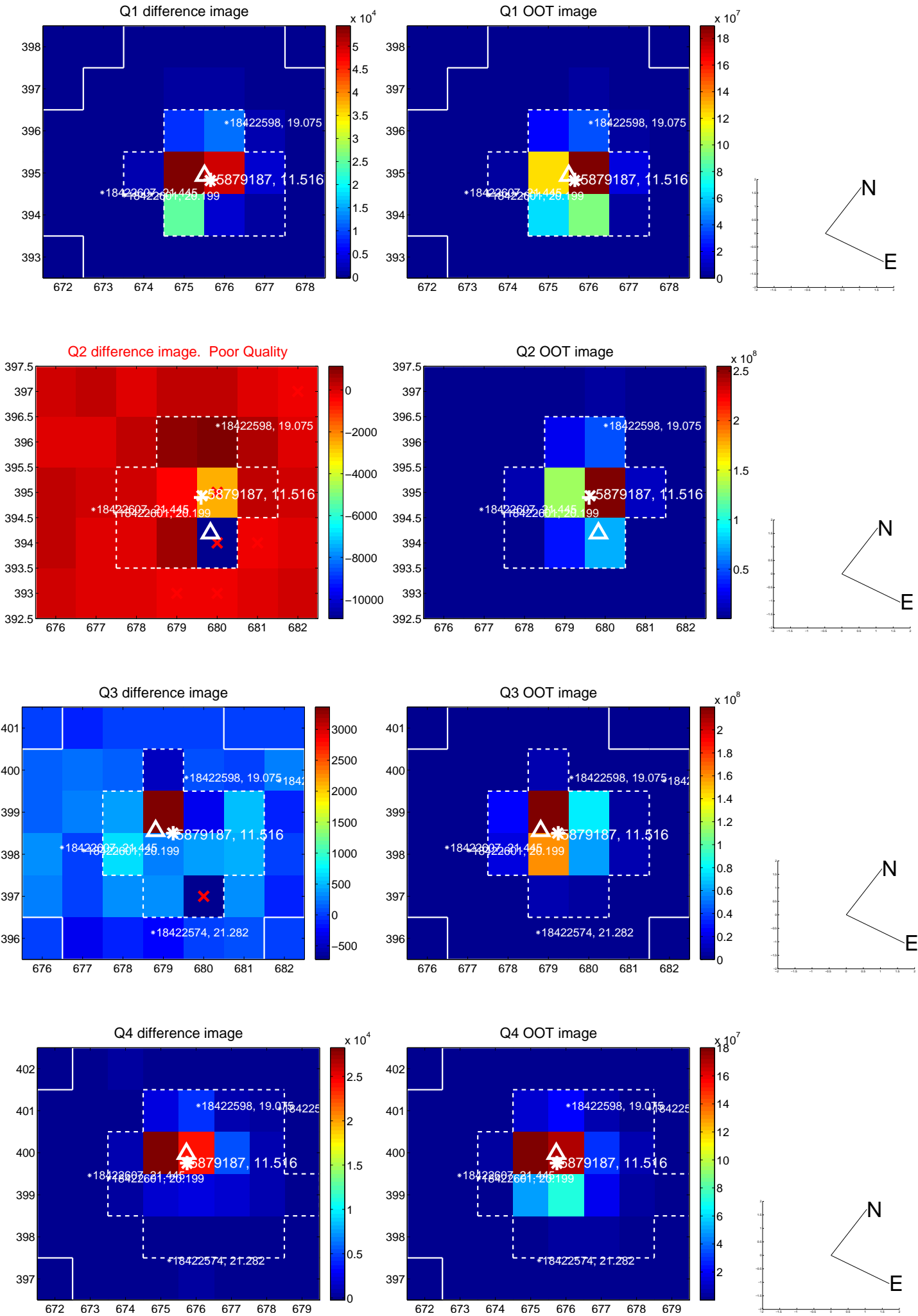
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.058 ± 0.229	0.25	0.058 ± 0.223	-0.006 ± 0.156
PRF-fit source offset from KIC position	0.088 ± 0.163	0.54	0.073 ± 0.209	0.050 ± 0.171
photometric centroid source offset	0.07 ± 0.11	0.61	-0.01 ± 0.12	0.07 ± 0.11

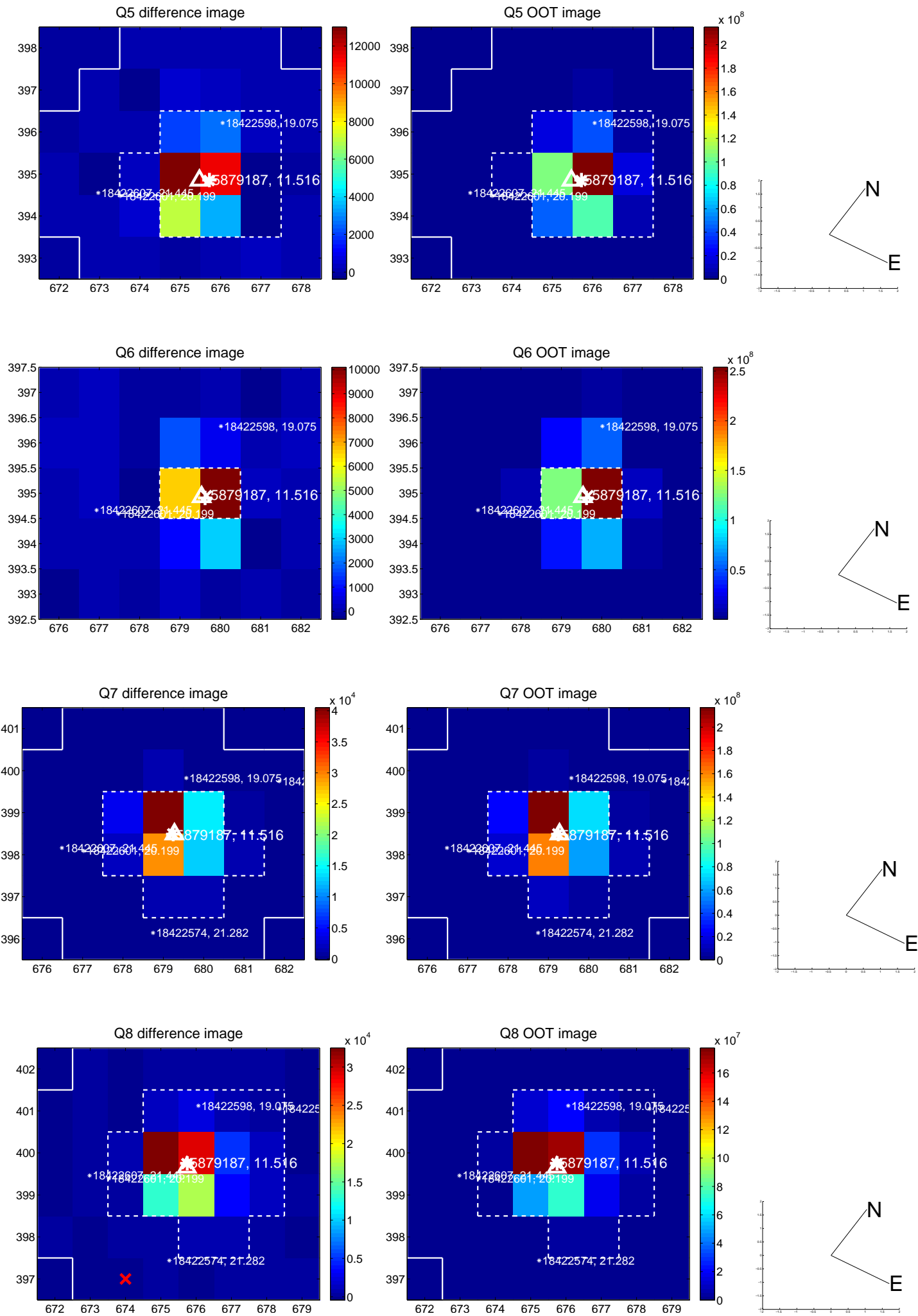


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

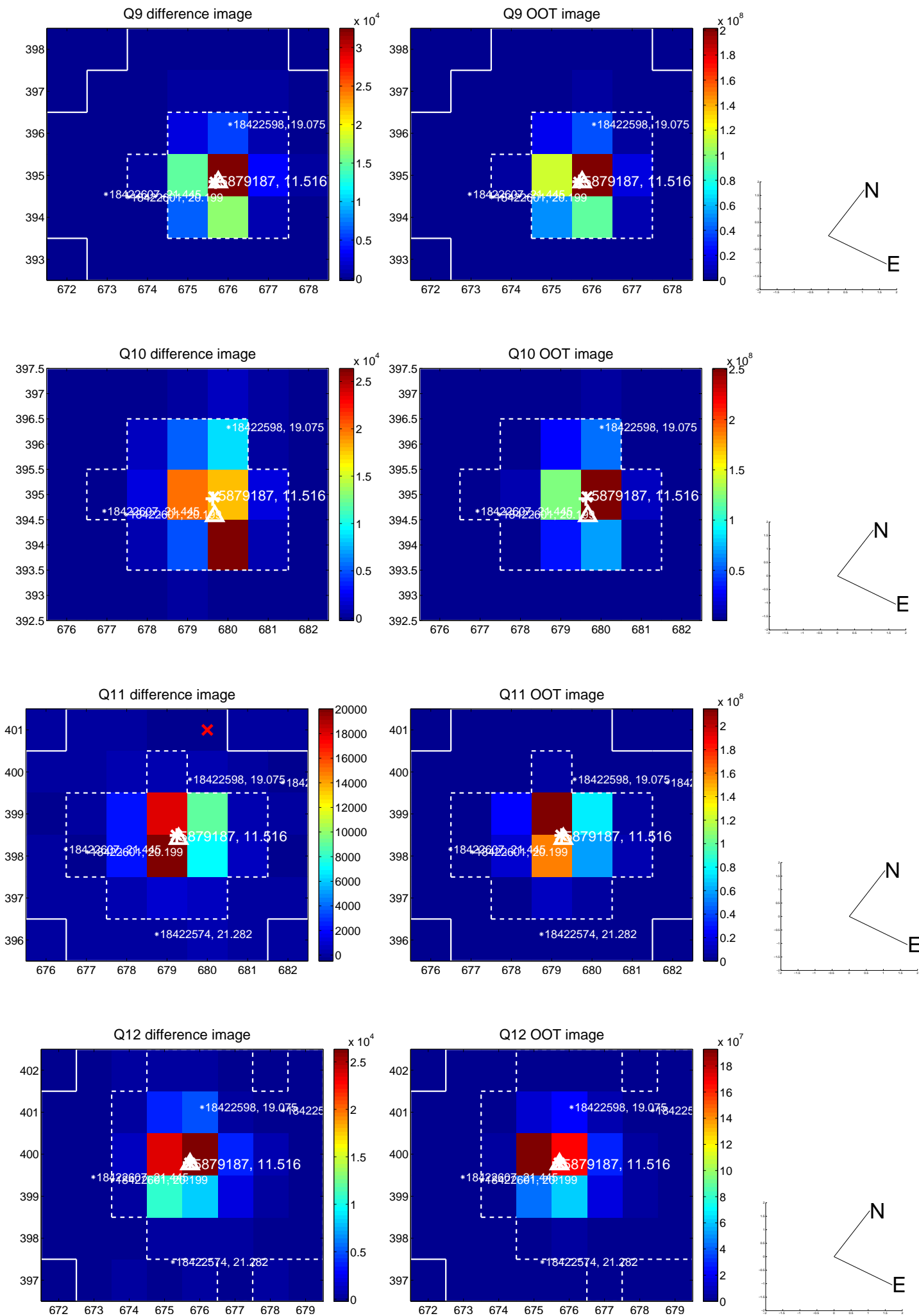
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



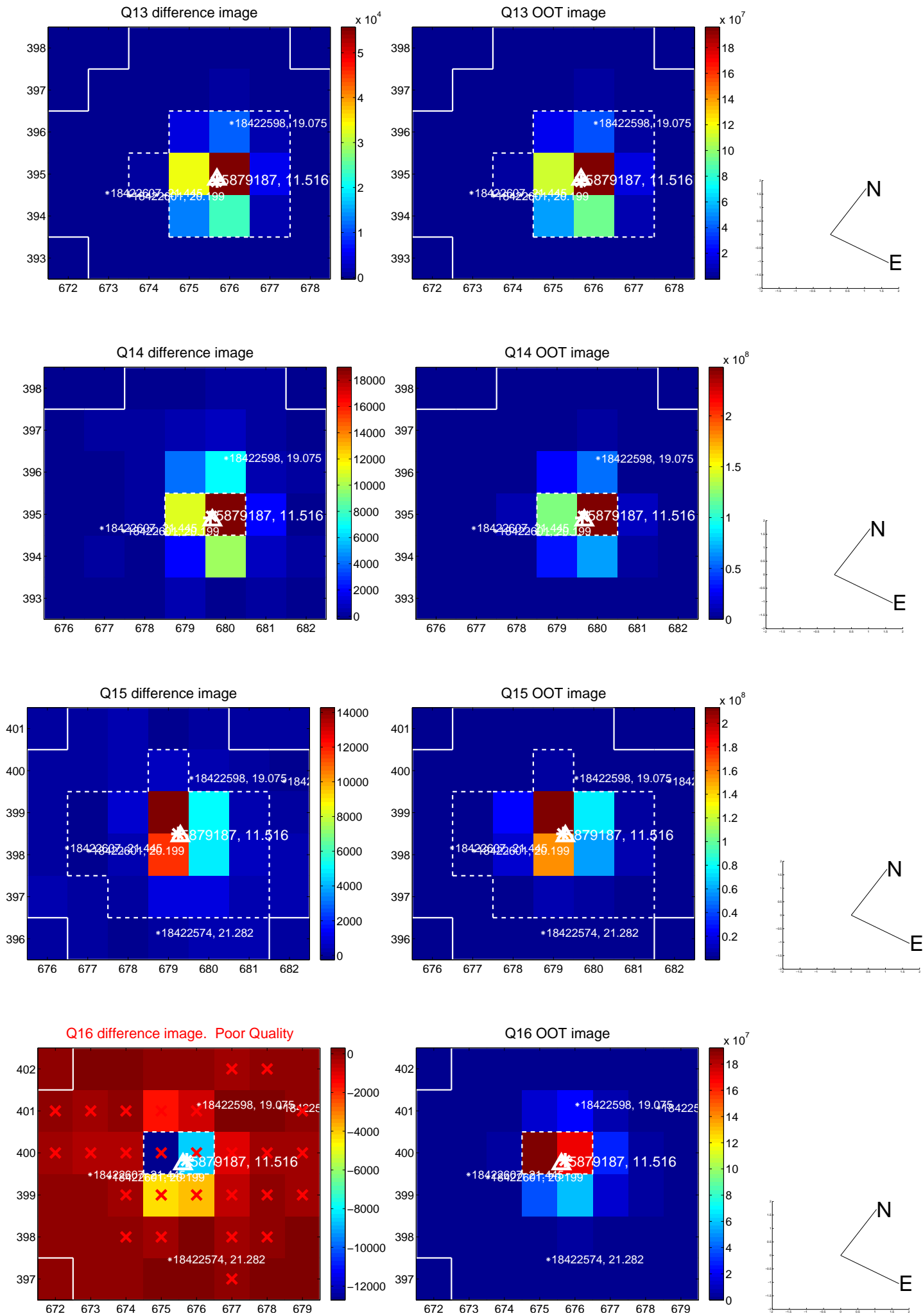
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



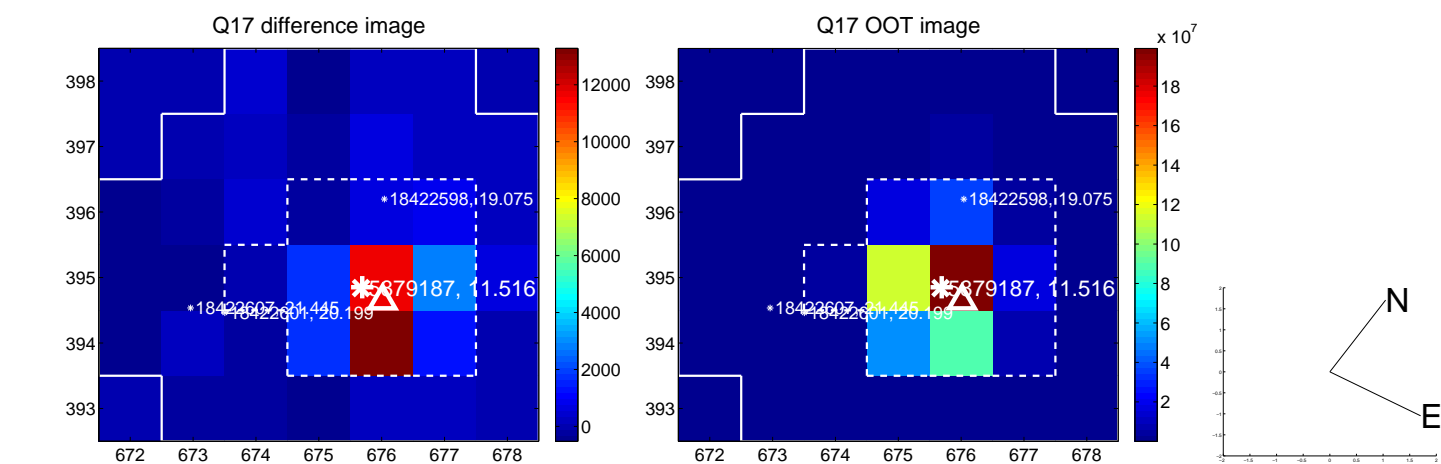
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



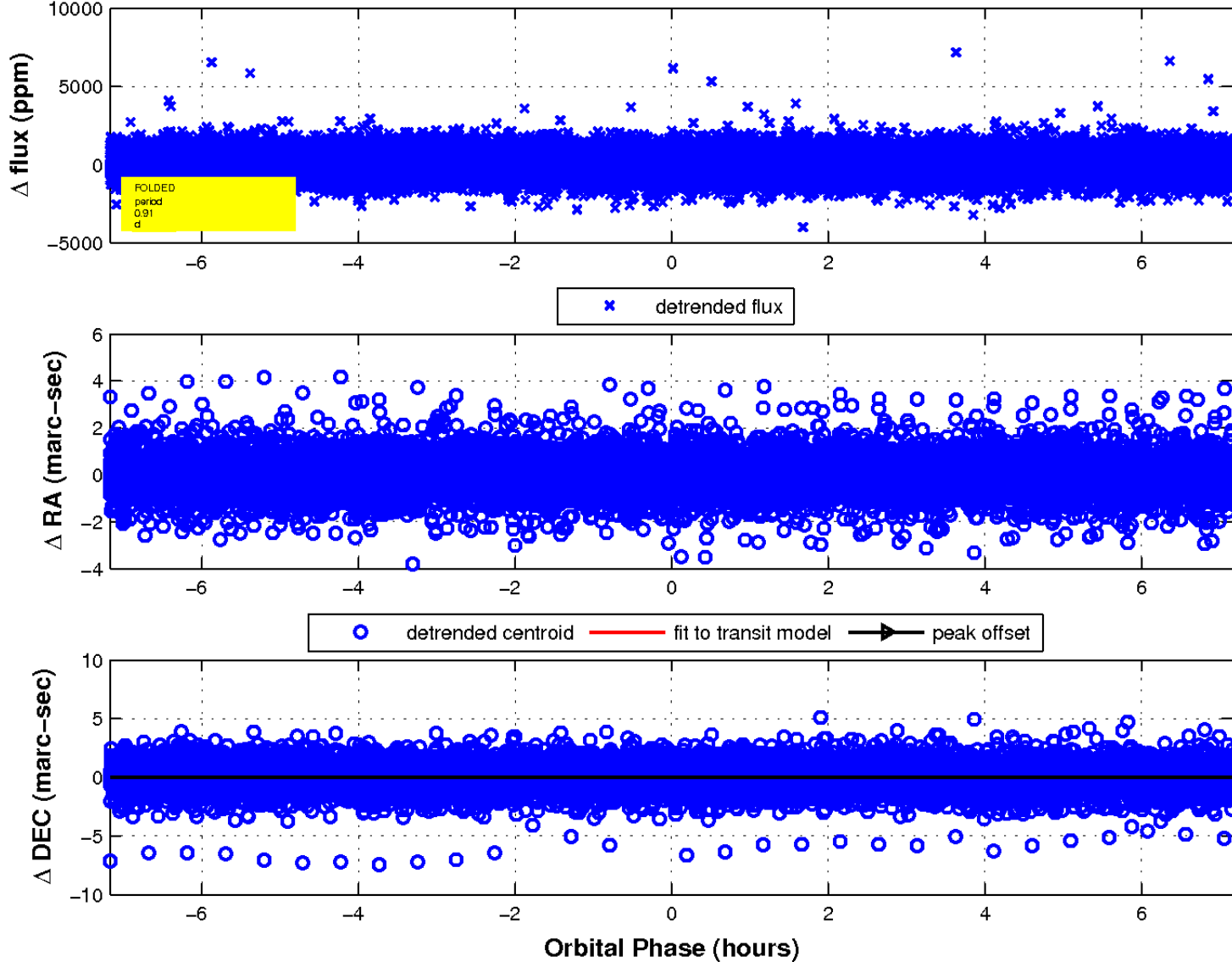
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

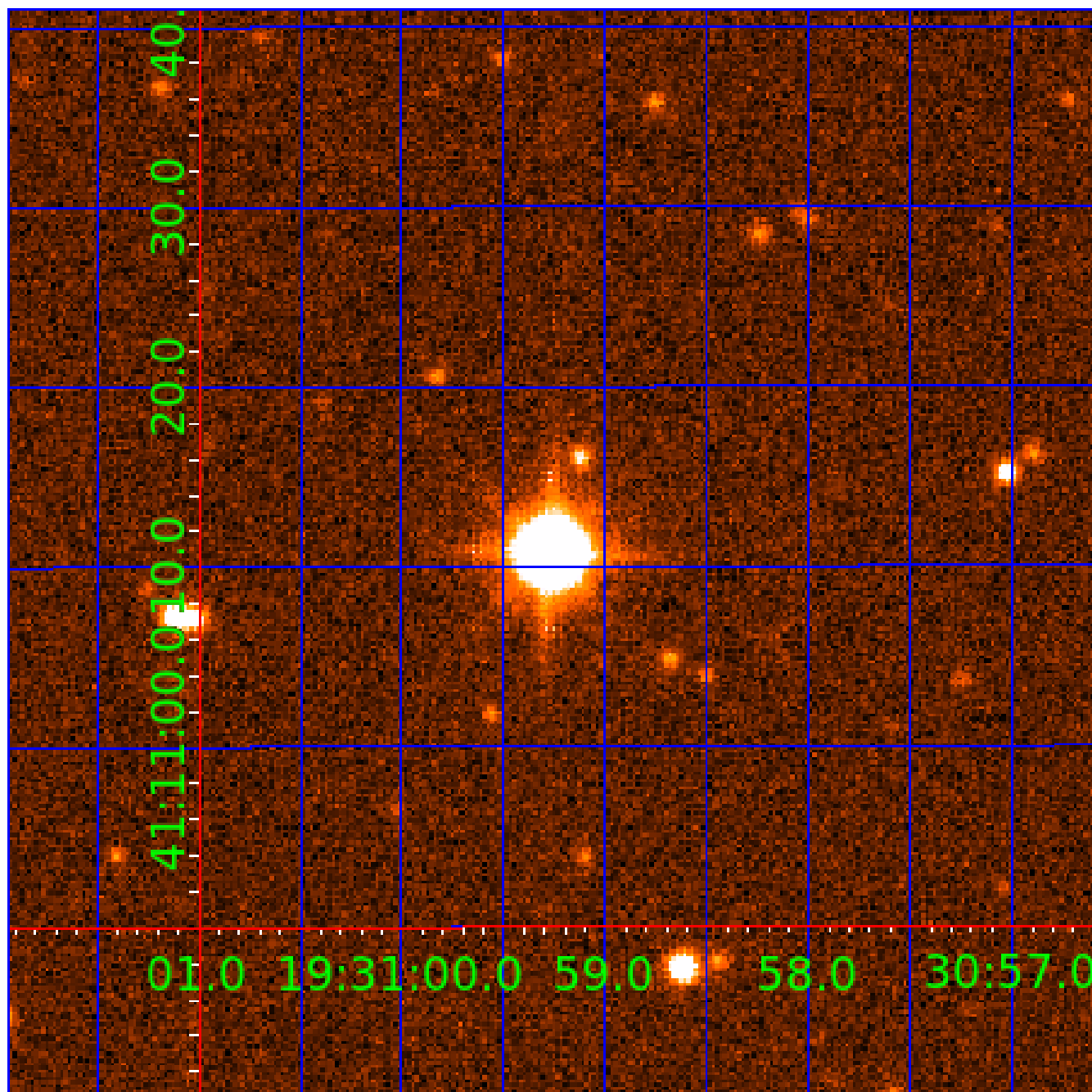


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 005879187

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})
005879187-01	OBS	No	0.906825	132.272824	92.0	2.390	12.5	13.3	2.07	7505	2.30	25672.72
005879187-02	OBS	No	0.604532	131.679280	85.7	1.844	10.9	11.1	2.07	7505	2.22	44083.60
005879187-03	OBS	No	0.604525	131.979392	47.5	2.731	9.0	6.5	2.07	7505	1.47	44084.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879187-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005879187-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005879187-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD

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

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

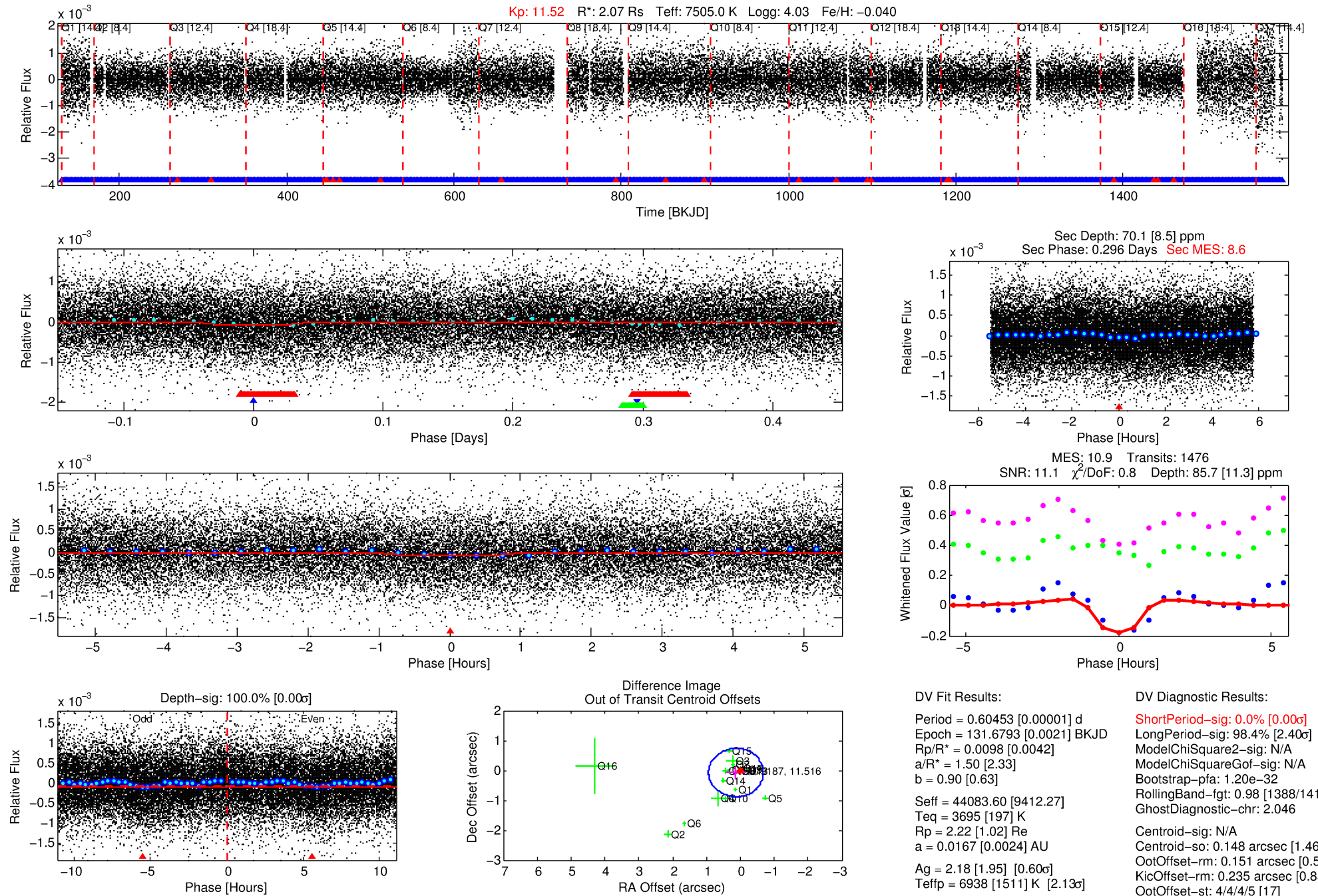
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879187-02

No Significant Match Found

DV One-Page Summary

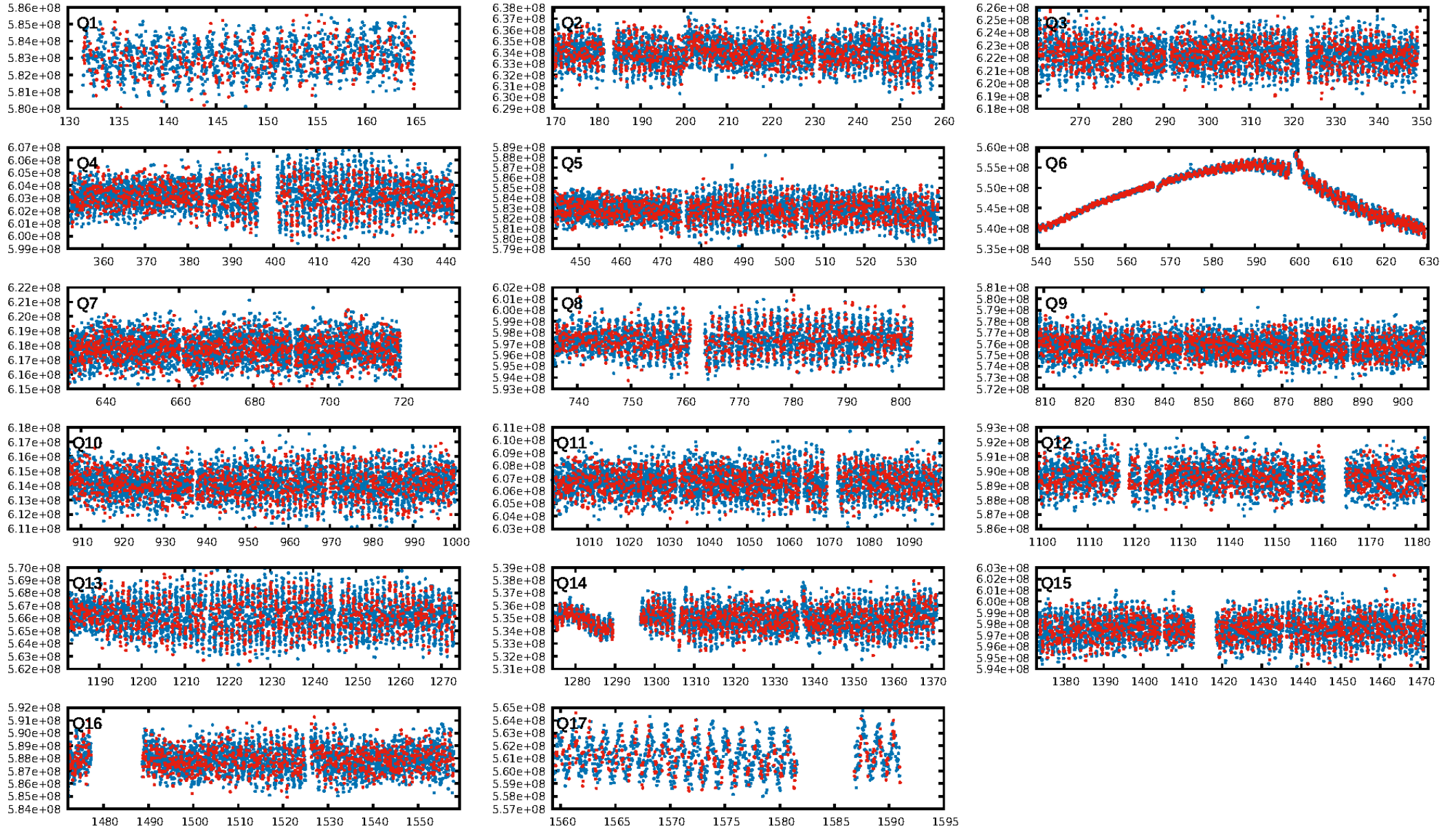
KIC: 5879187 Candidate: 2 of 3 Period: 0.605 d



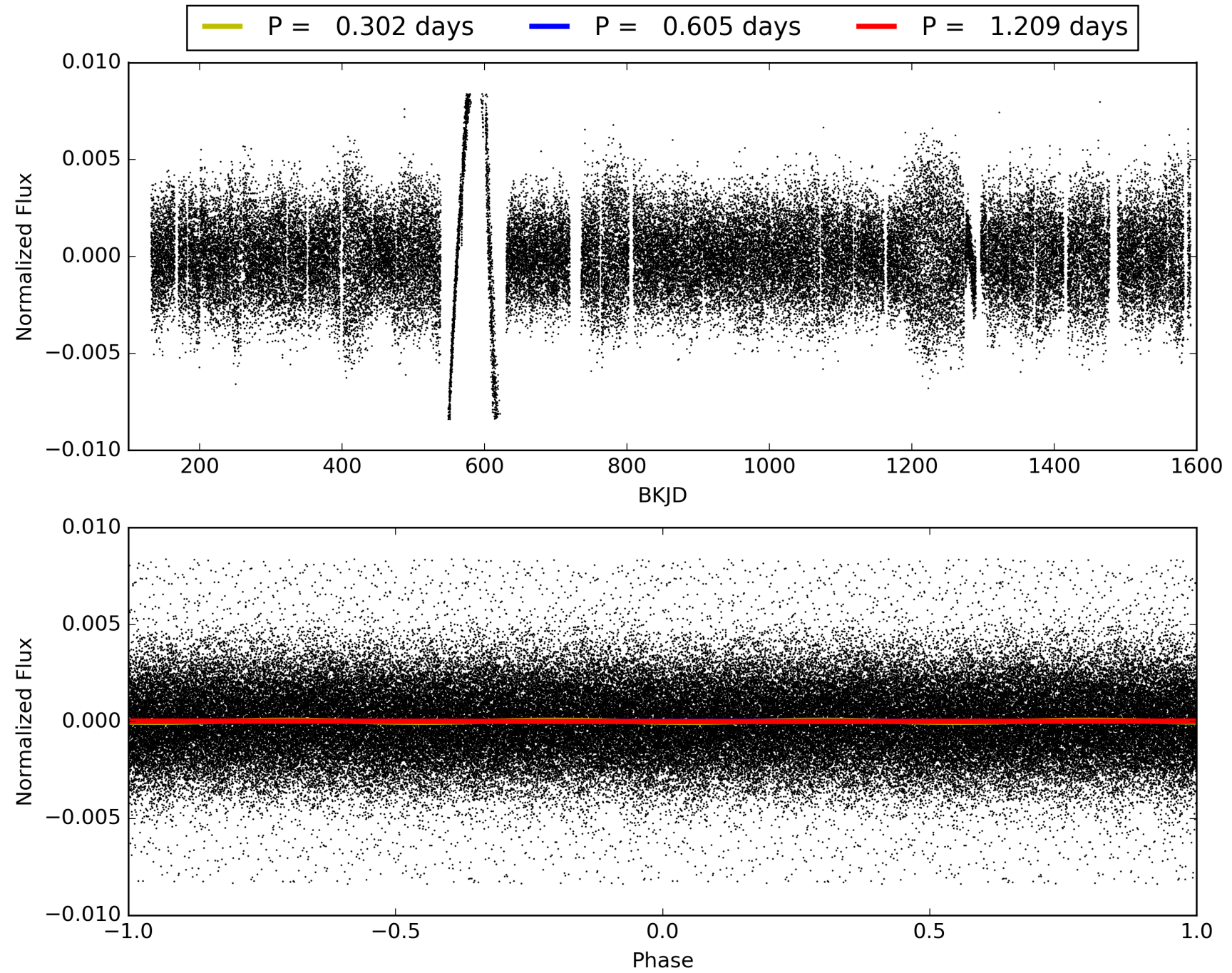
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:46:19 Z

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

TCE 005879187-02, PDC Light Curves

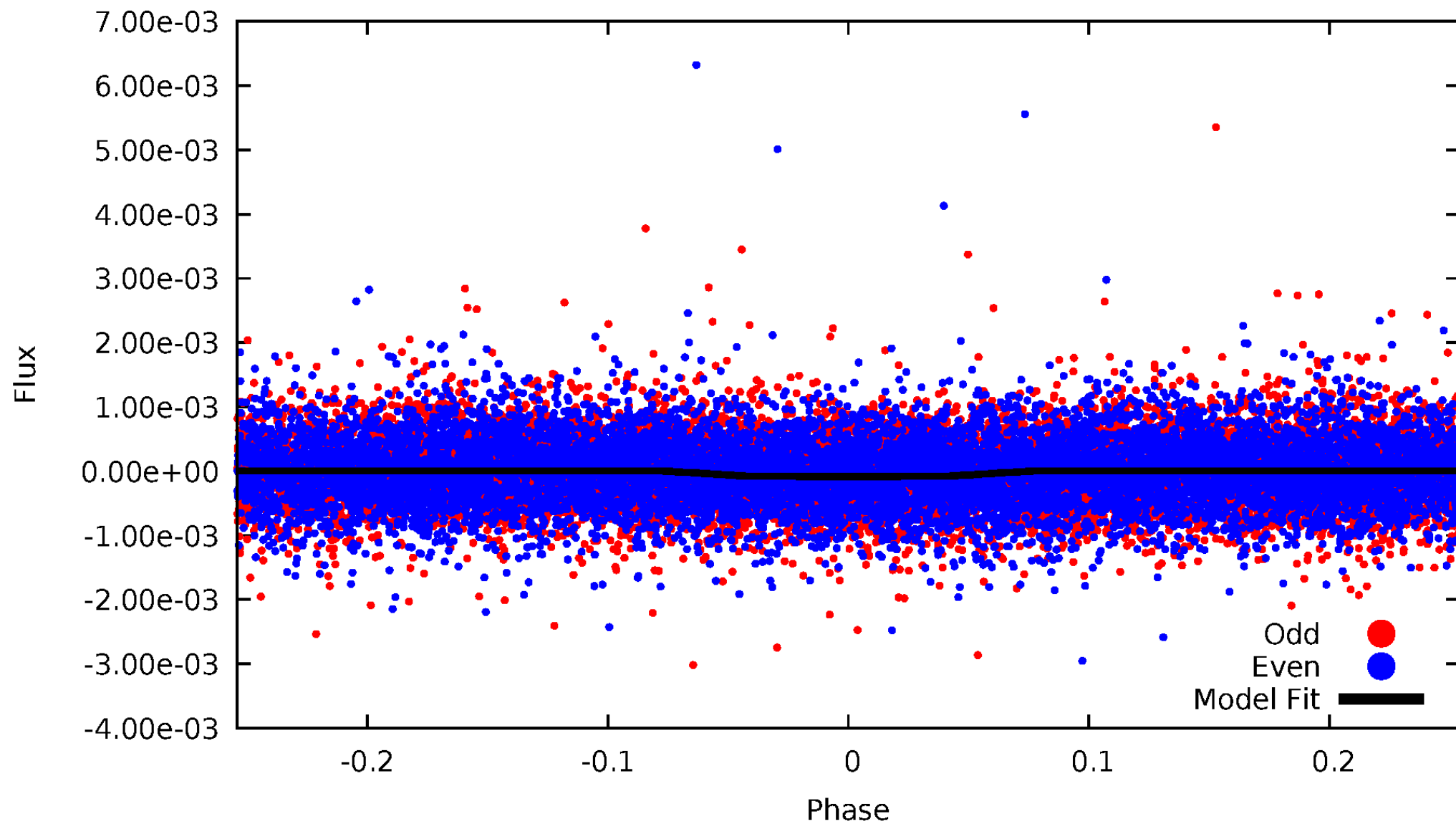


TCE 005879187-02



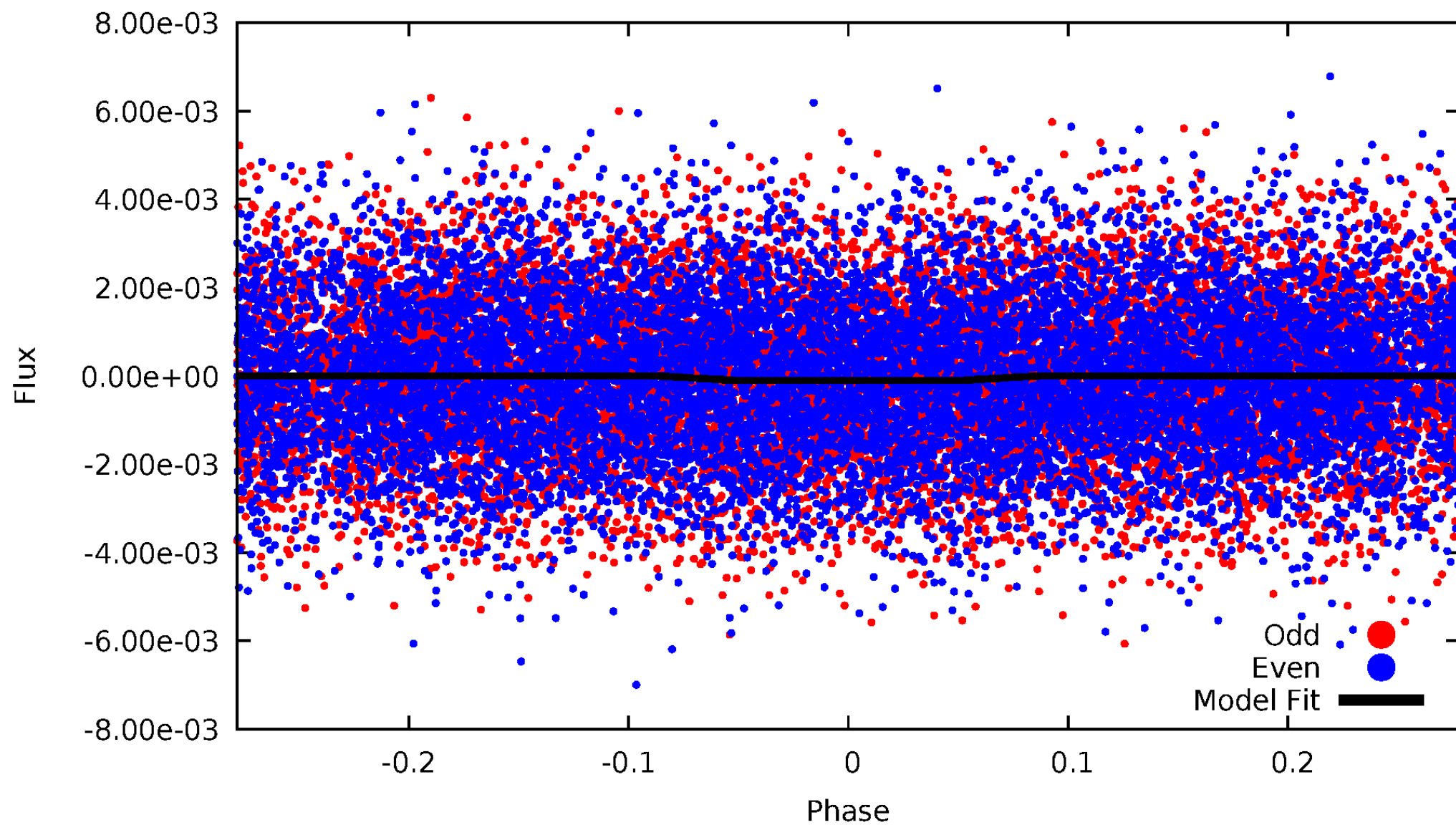
DV Odd/Even

TCE 005879187-02



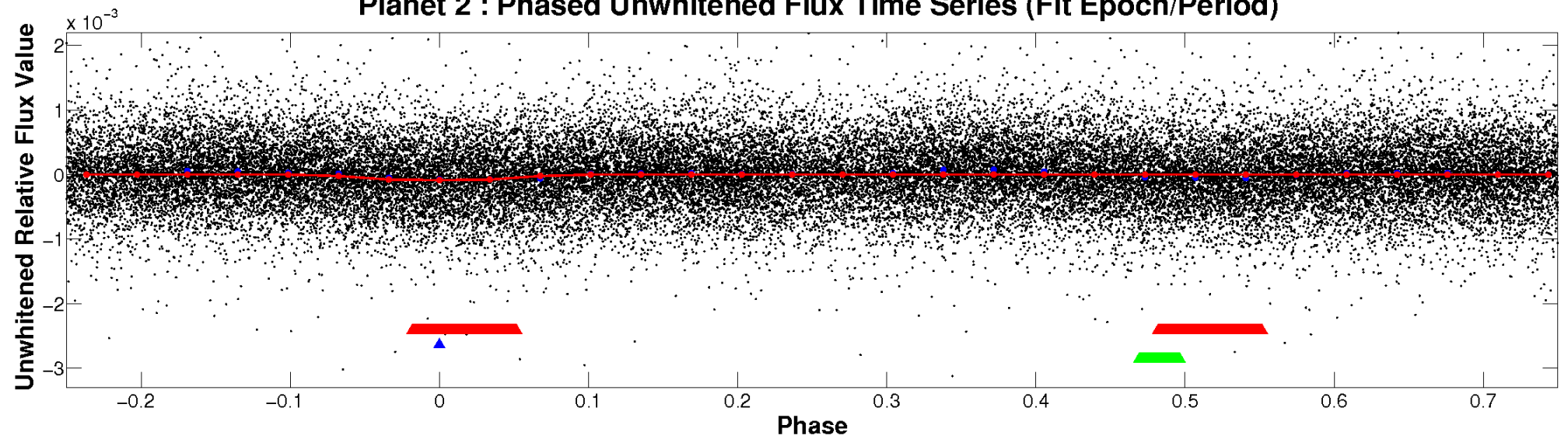
ALT Odd/Even

TCE 005879187-02

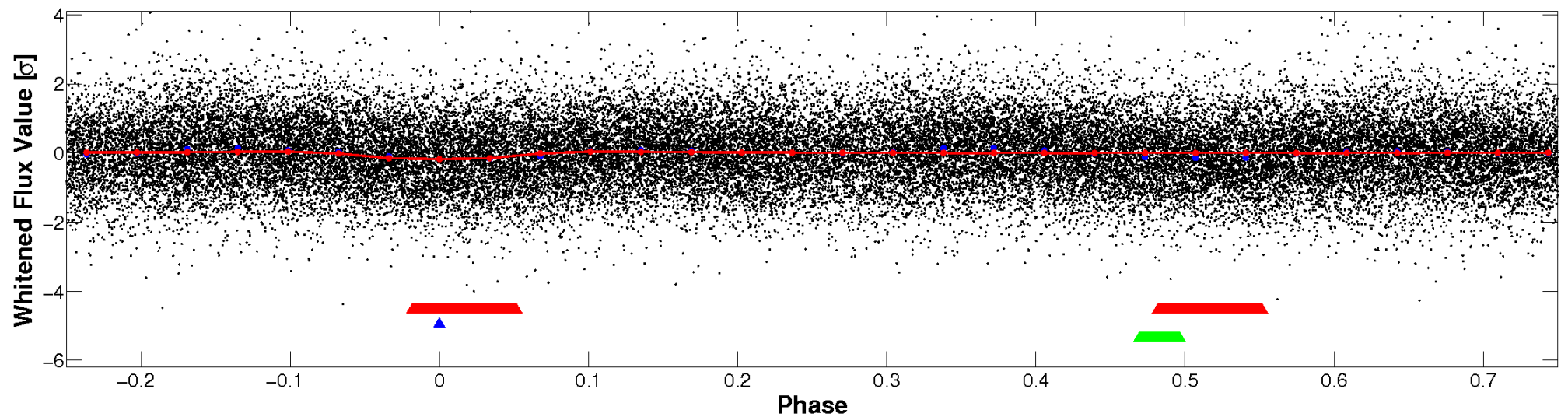


Non-Whitened Vs. Whitened Light Curve

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

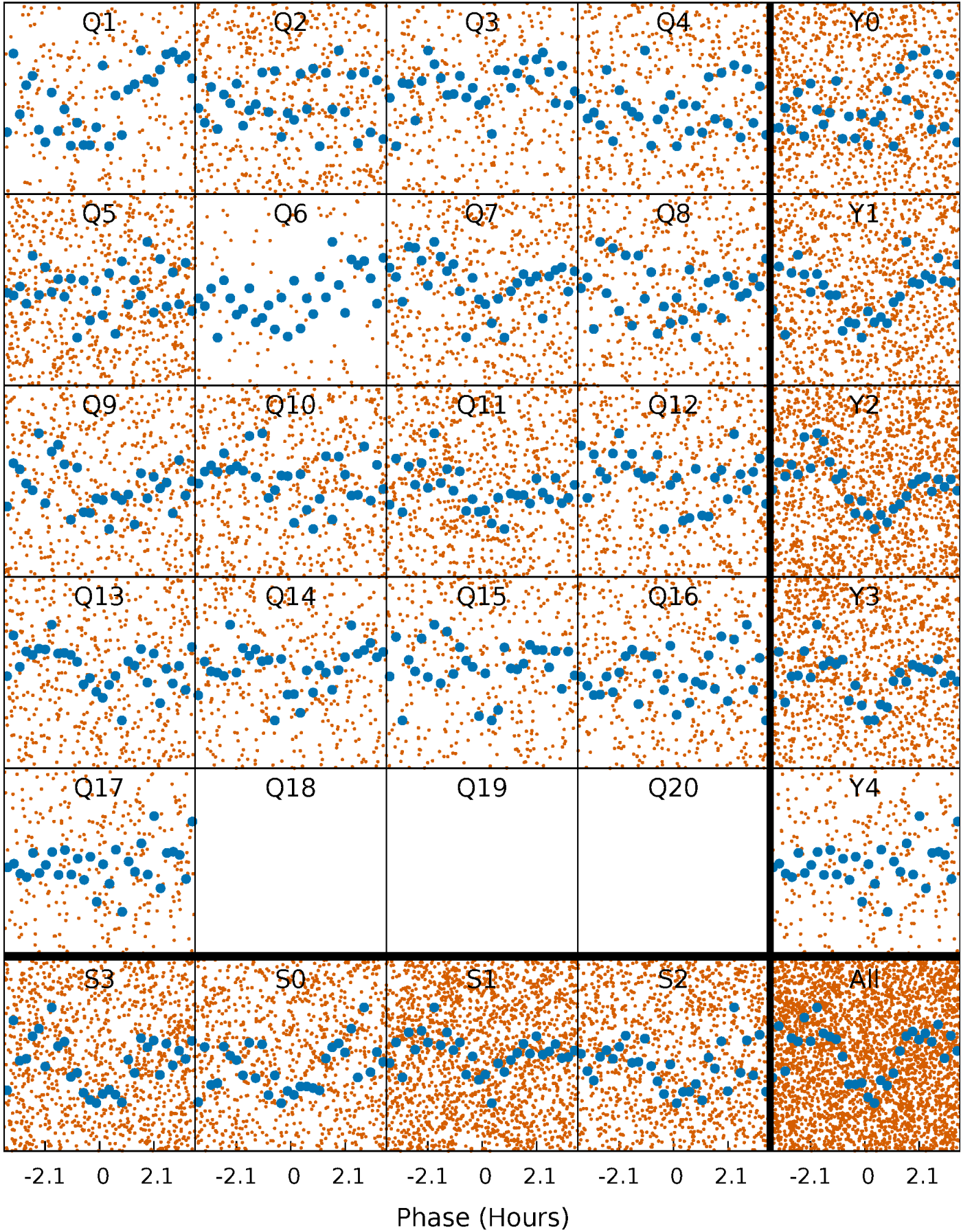


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



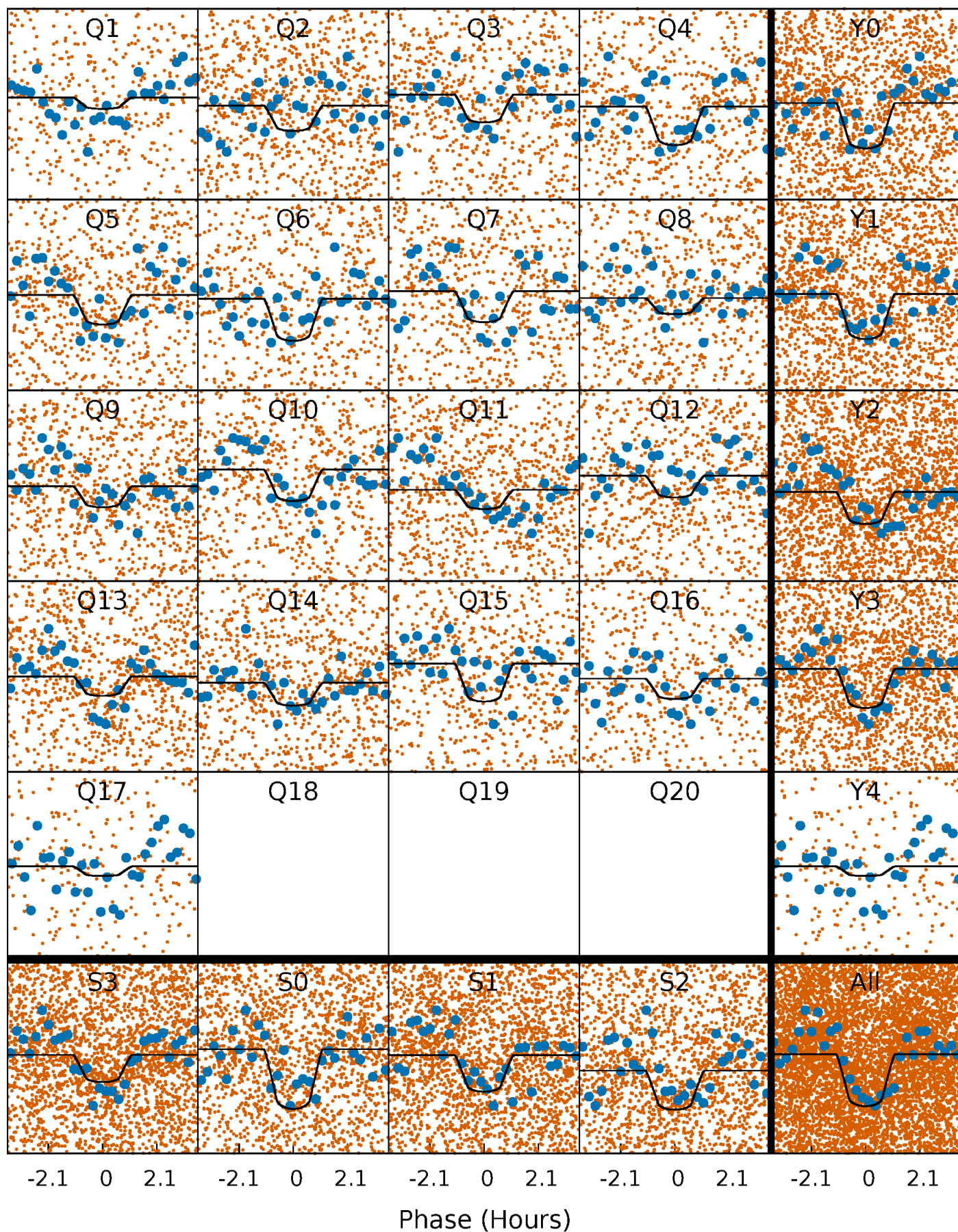
PDC Quarter-Phased Transit Curves

TCE 005879187-02 P= 0.604532 Days $T_0=131.679280$ (BKJD)



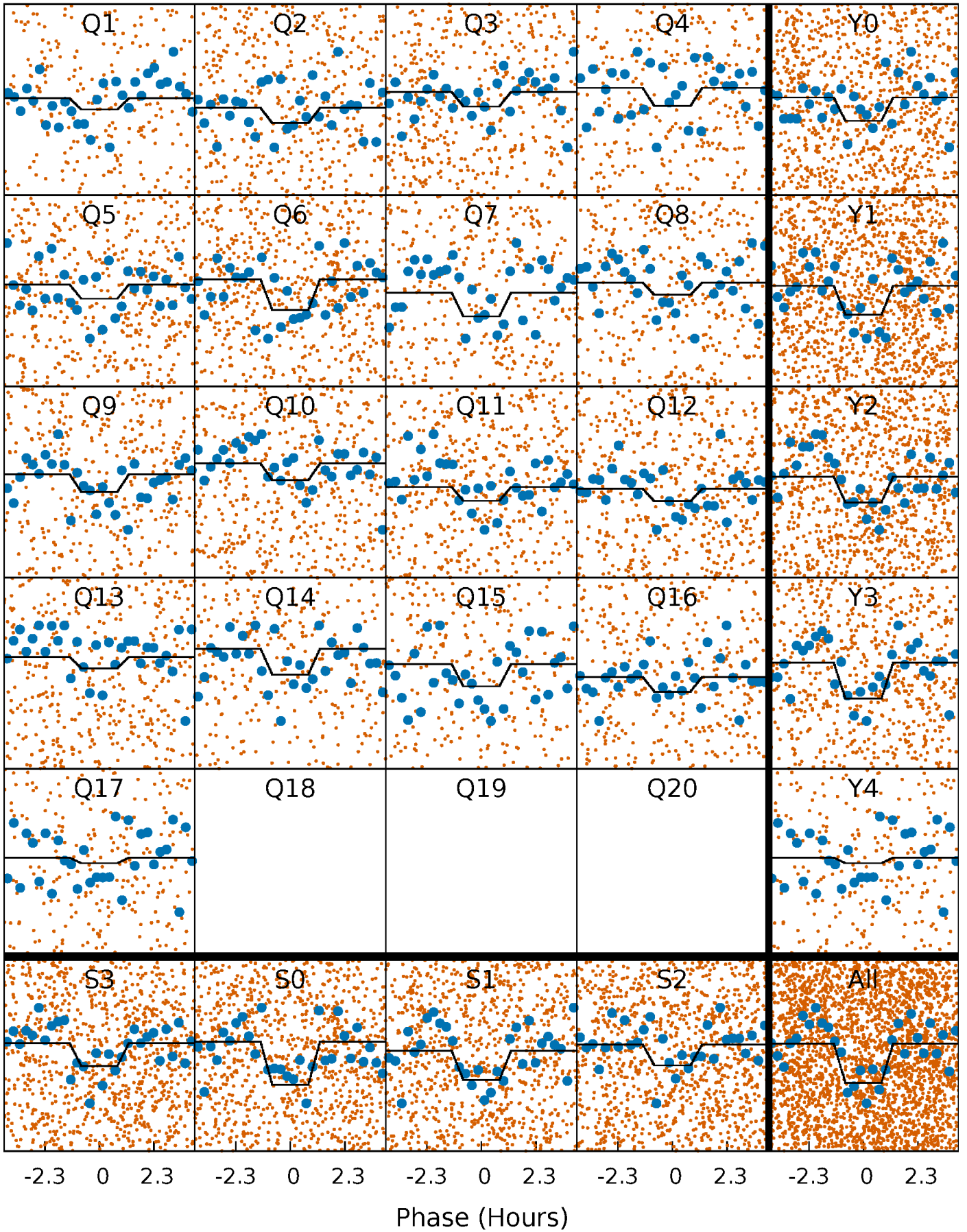
DV Quarter-Phased Transit Curves

TCE 005879187-02 P= 0.604532 Days $T_0=131.679280$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

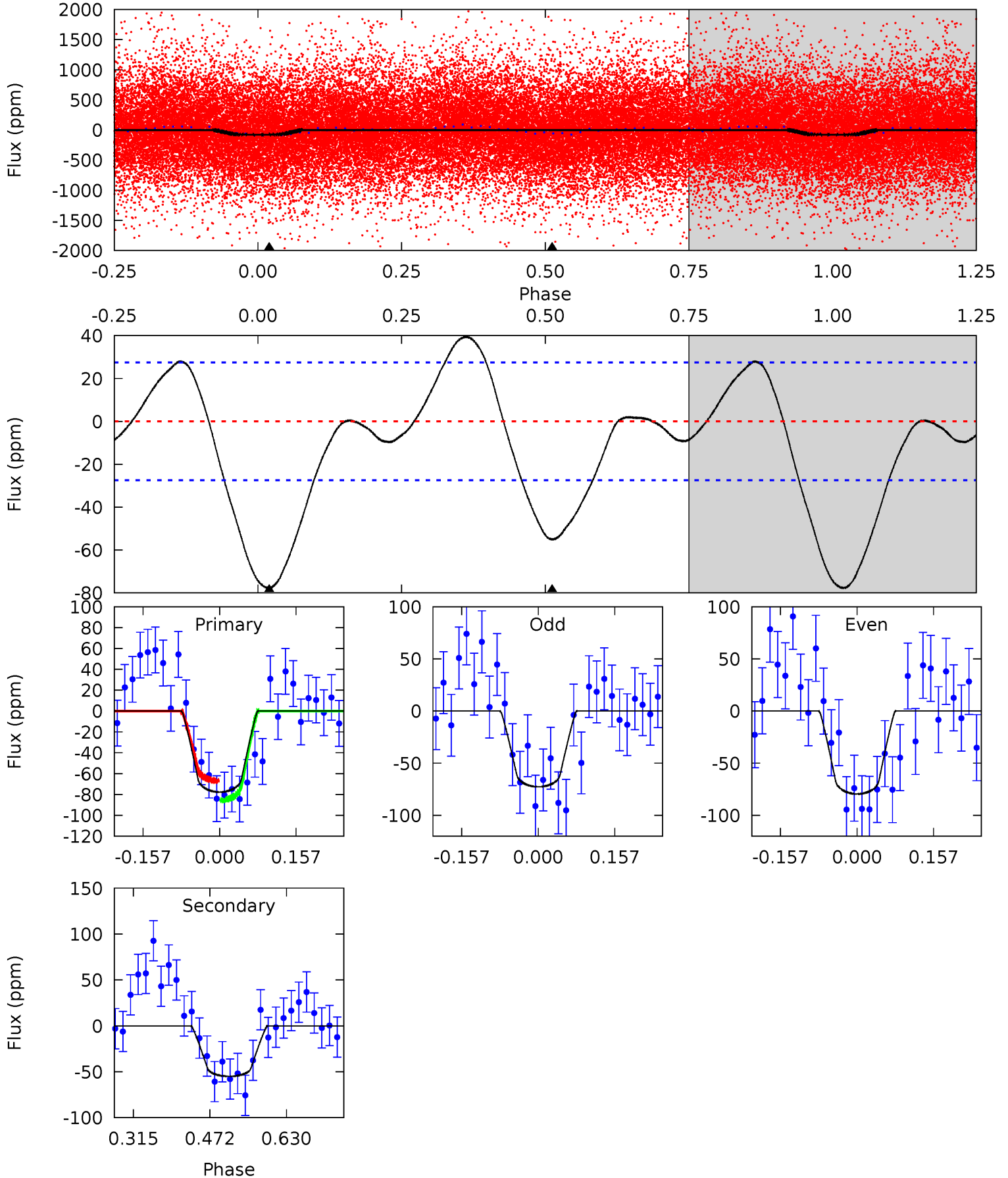
TCE 005879187-02 P= 0.604541 Days $T_0=131.674399$ (BKJD)



DV Model-Shift Uniqueness Test

005879187-02, P = 0.604532 Days, E = 131.074748 Days

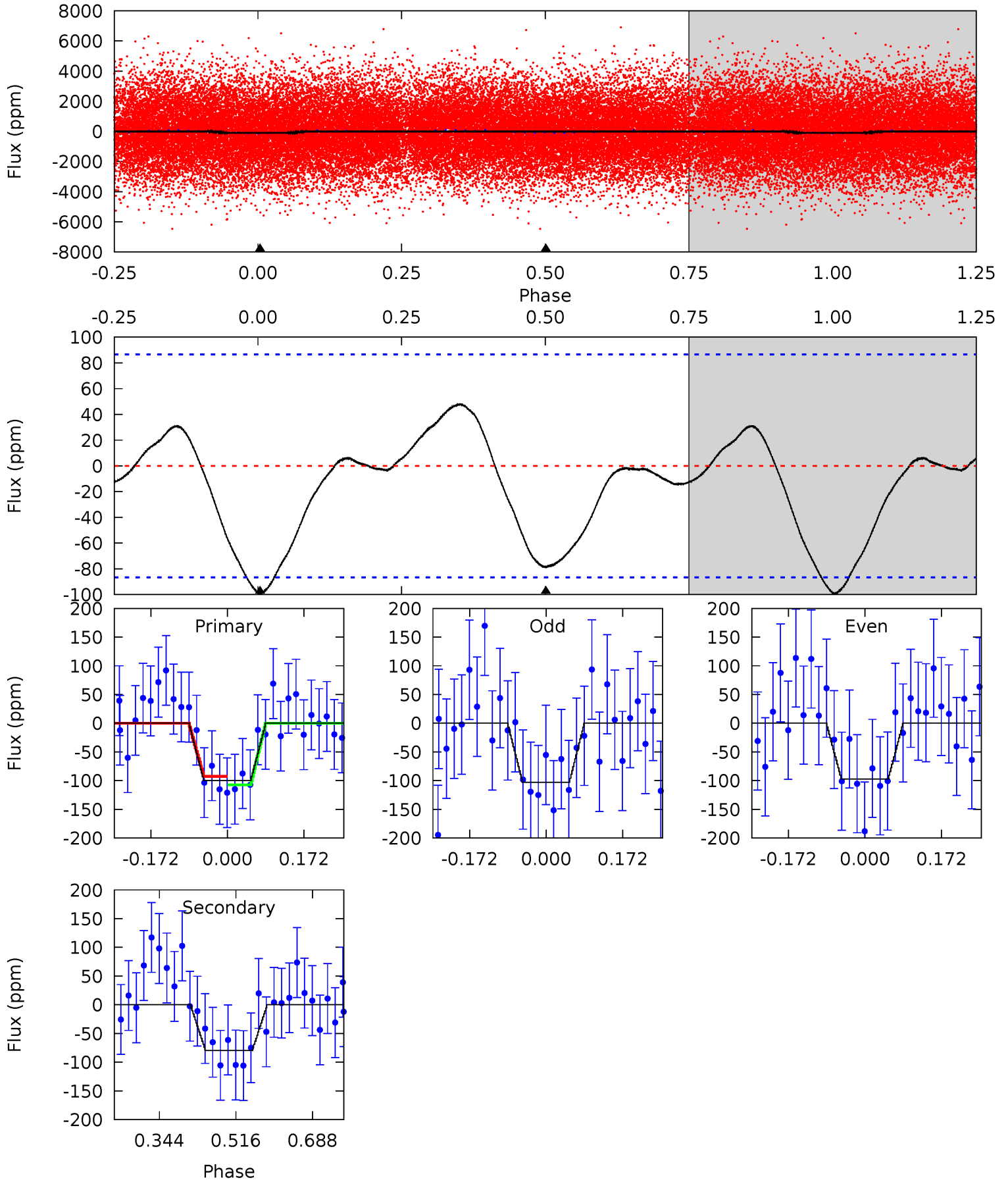
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	8.95	0	0	4.47	1.41	2.28	12.6	12.6	8.95	8.95	0.56	1.02	0.34	1.51



Alt Model-Shift Uniqueness Test

005879187-02, P = 0.604541 Days, E = 131.069858 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.14	4.08	0	0	4.45	1.37	0.78	5.14	5.14	4.08	4.08	0.15	0.83	0.33	0.38



Stellar Parameters For KIC 005879187

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7505^{+82}_{-75}	$4.031^{+0.115}_{-0.103}$	$-0.040^{+0.150}_{-0.150}$	$2.074^{+0.348}_{-0.313}$	$1.682^{+0.151}_{-0.136}$	$0.266^{+0.138}_{-0.091}$
	+1%/-1%	+3%/-3%	+375%/-375%	+17%/-15%	+9%/-8%	+52%/-34%
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 005879187-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-55 ± 6	$2.17^{+0.96}_{-0.84}$	5163^{+214}_{-210}	6169^{+2382}_{-1230}	$1.761^{+3.121}_{-0.896}$
Alt.	-79 ± 19	$2.28^{+0.95}_{-1.00}$	5163^{+208}_{-201}	6726^{+3097}_{-1351}	$2.351^{+4.860}_{-1.235}$

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 $A_{obs} \gg 1.0$

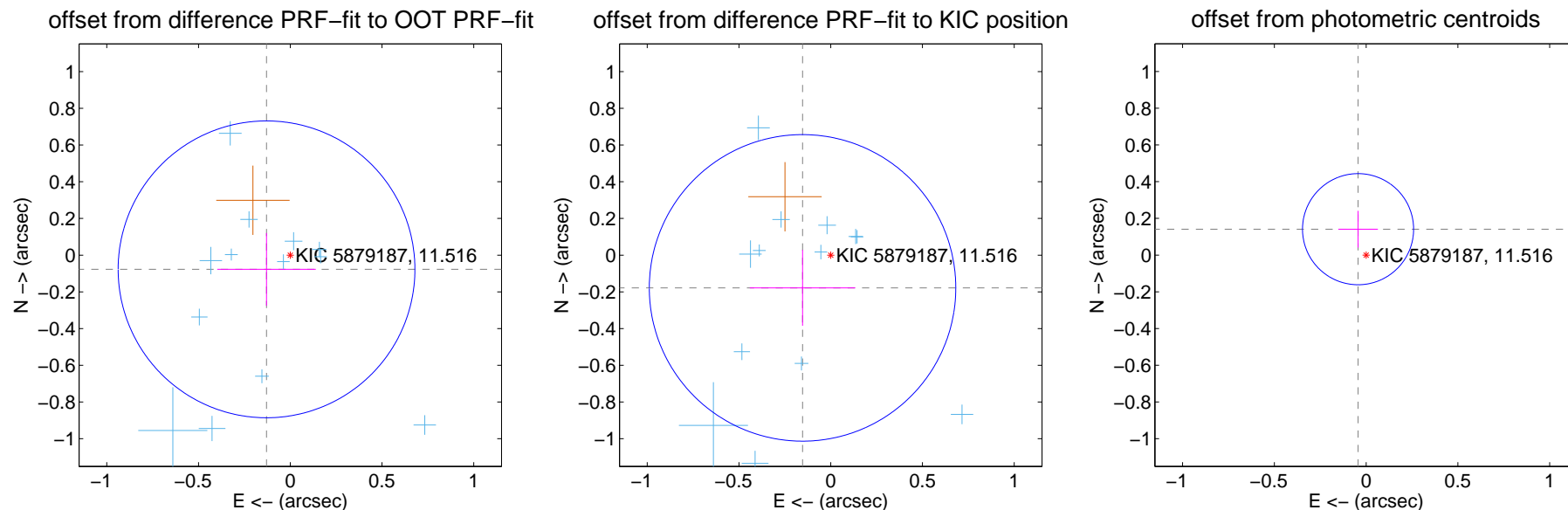
DV Centroid Data

Supplemental centroid analysis for 005879187-02. **Kepler magnitude: 11.52.** Transit SNR 11.11

There are 14 quarters with good PRF difference image offsets

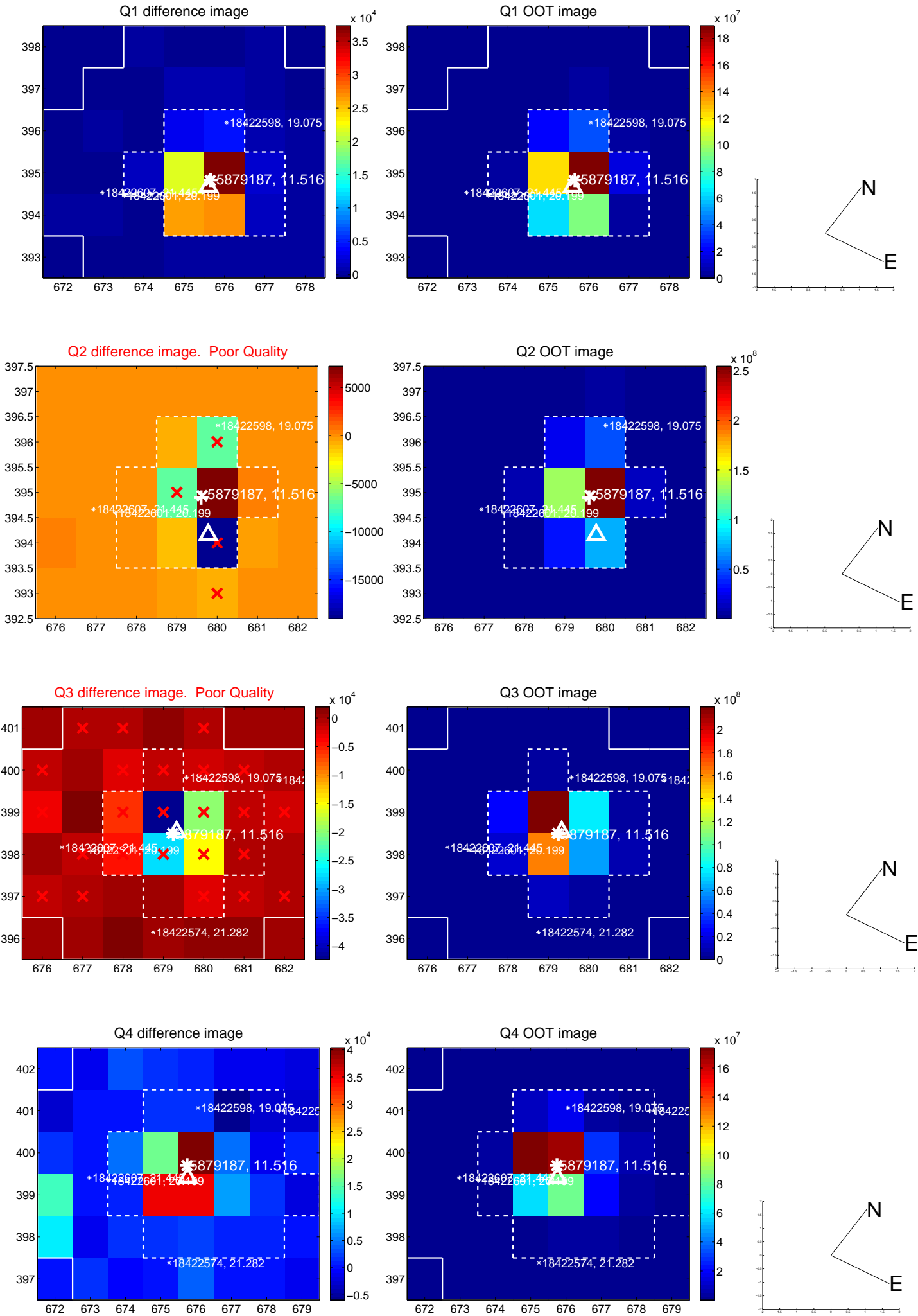
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.151 ± 0.270	0.56	0.129 ± 0.269	-0.077 ± 0.198
PRF-fit source offset from KIC position	0.235 ± 0.278	0.85	0.154 ± 0.287	-0.178 ± 0.207
photometric centroid source offset	0.15 ± 0.10	1.46	0.04 ± 0.11	0.14 ± 0.10

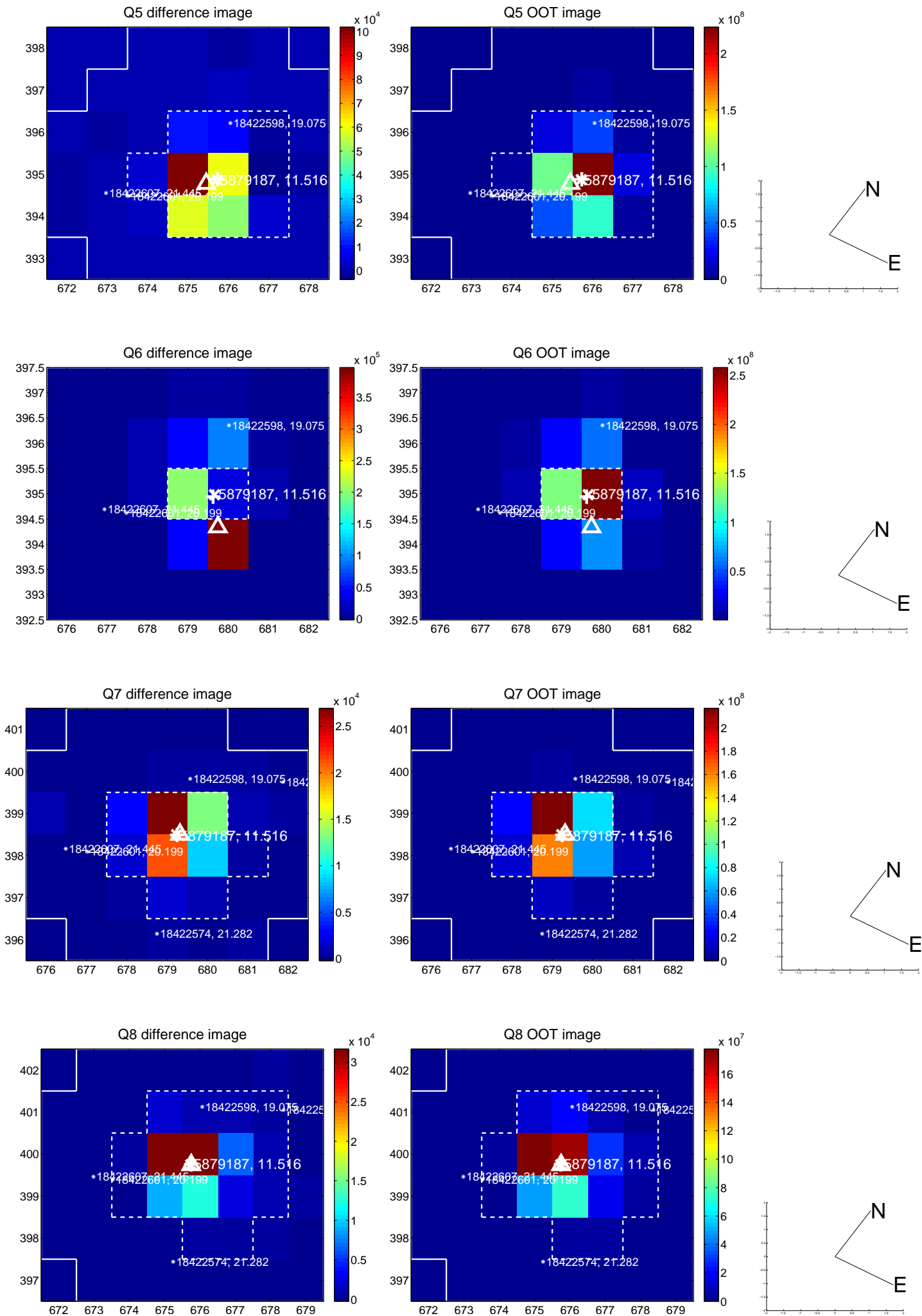


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

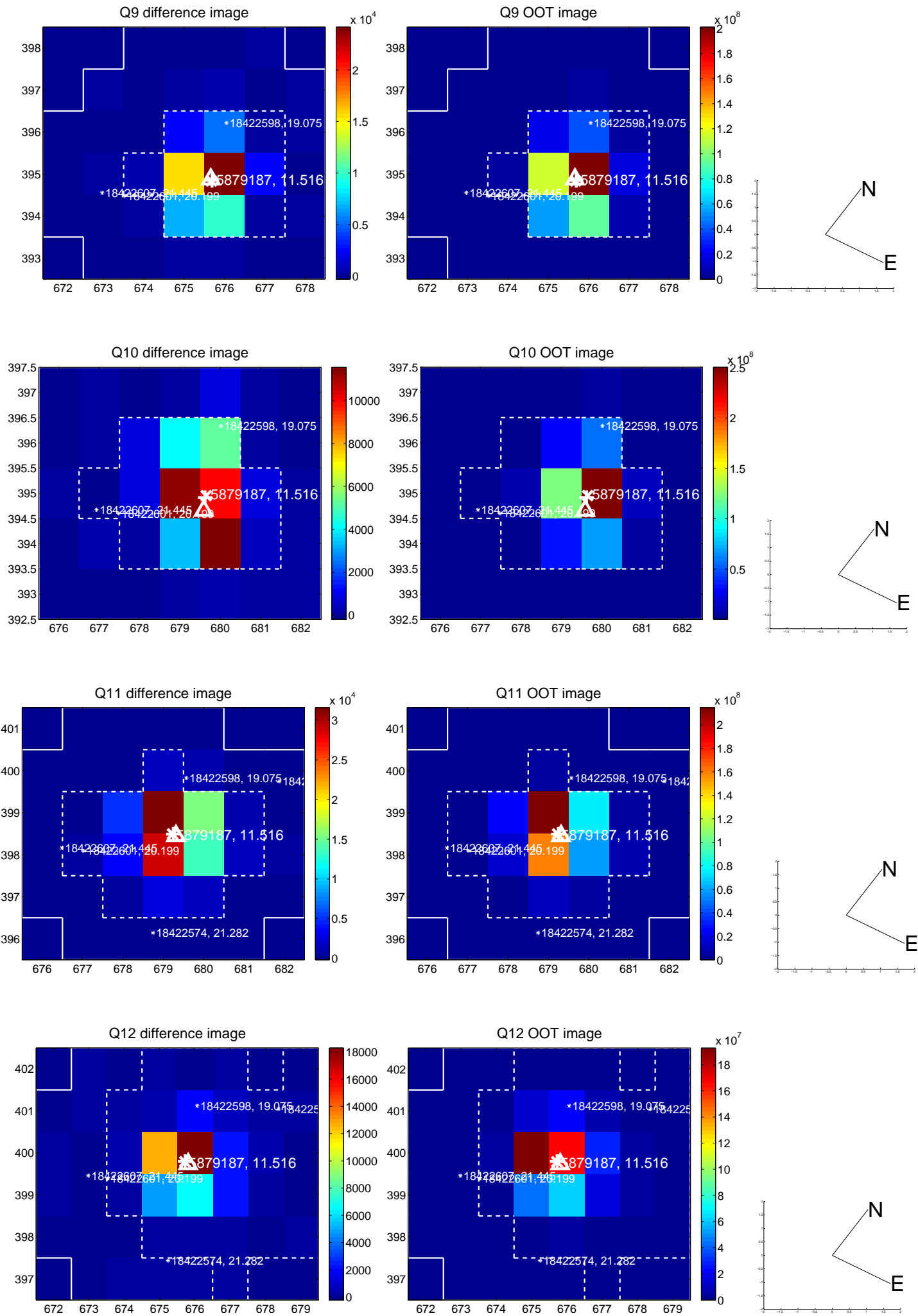
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



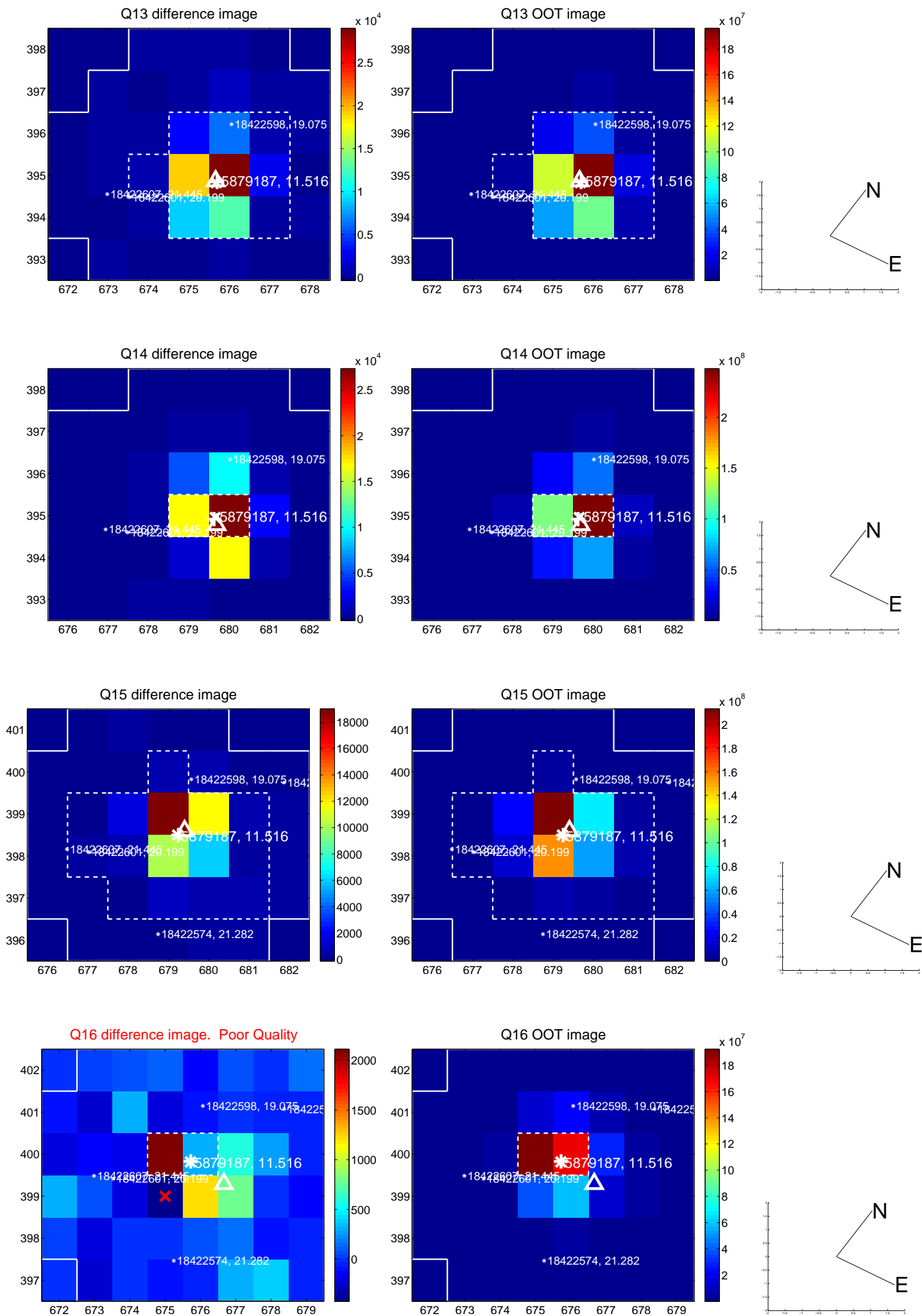
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



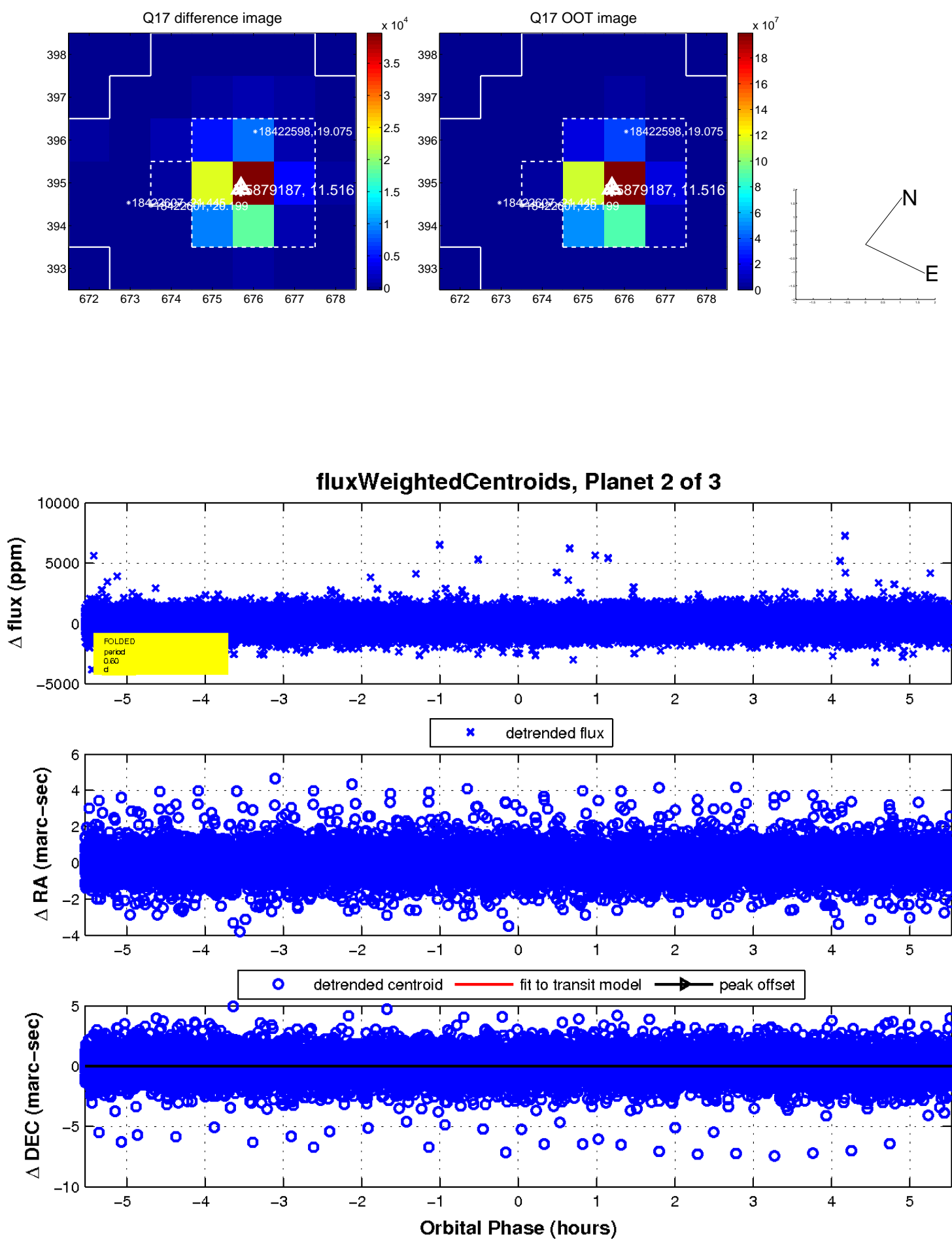
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

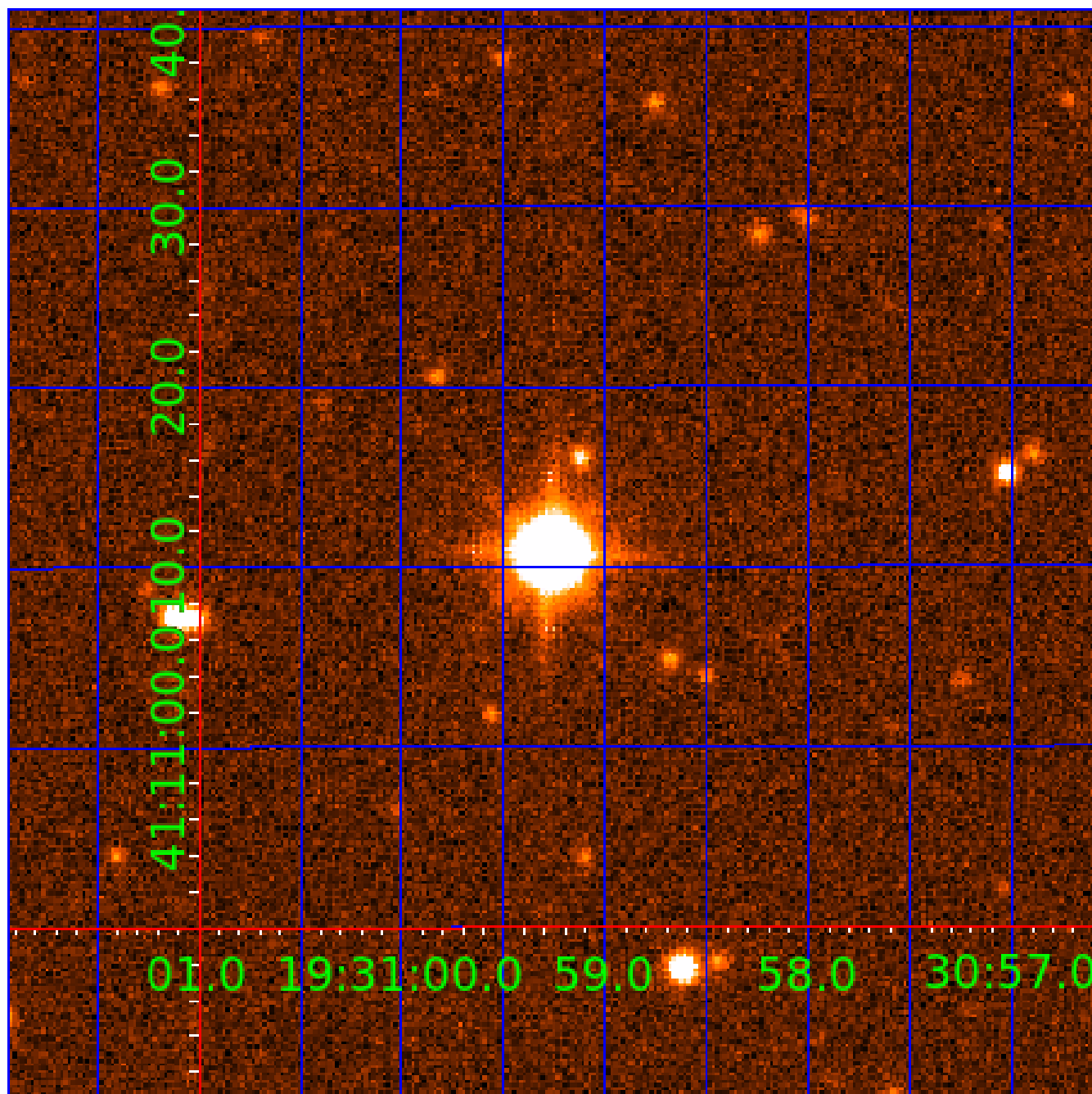


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005879187

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})
005879187-01	OBS	No	0.906825	132.272824	92.0	2.390	12.5	13.3	2.07	7505	2.30	25672.72
005879187-02	OBS	No	0.604532	131.679280	85.7	1.844	10.9	11.1	2.07	7505	2.22	44083.60
005879187-03	OBS	No	0.604525	131.979392	47.5	2.731	9.0	6.5	2.07	7505	1.47	44084.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879187-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005879187-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005879187-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD

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

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

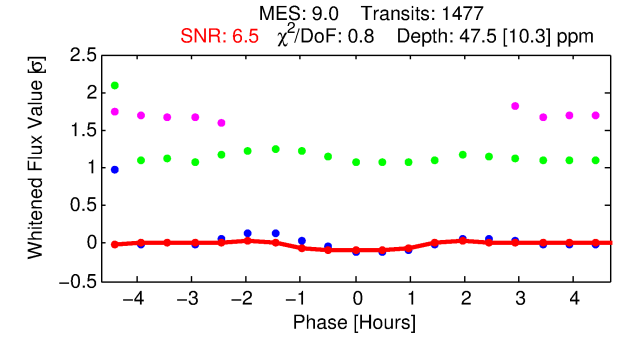
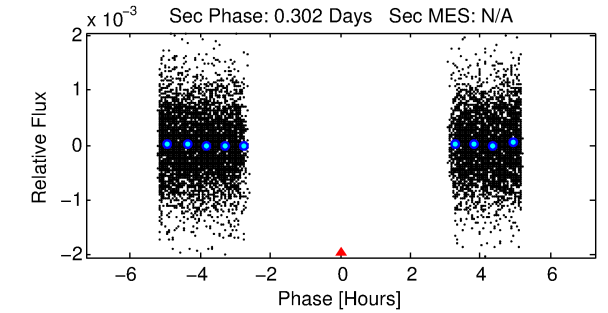
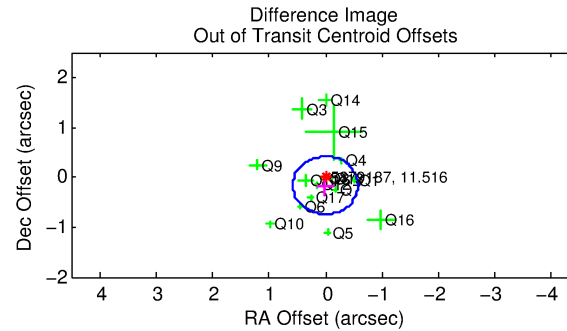
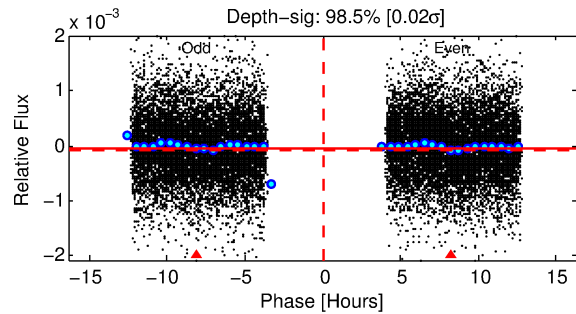
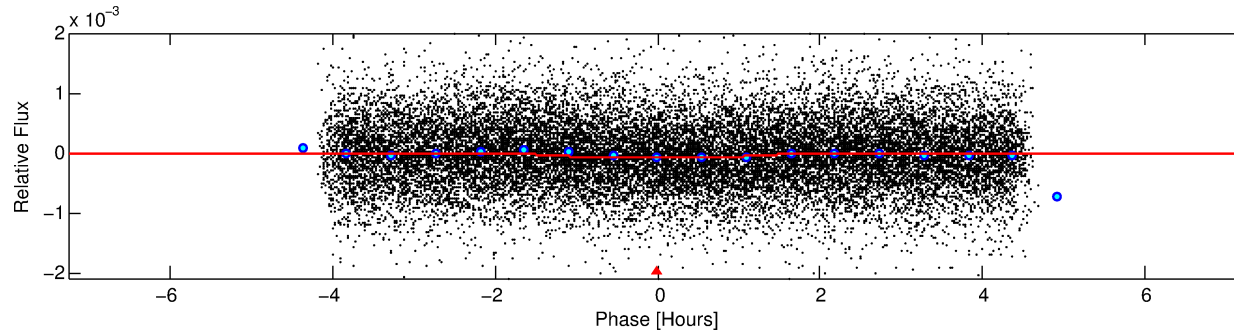
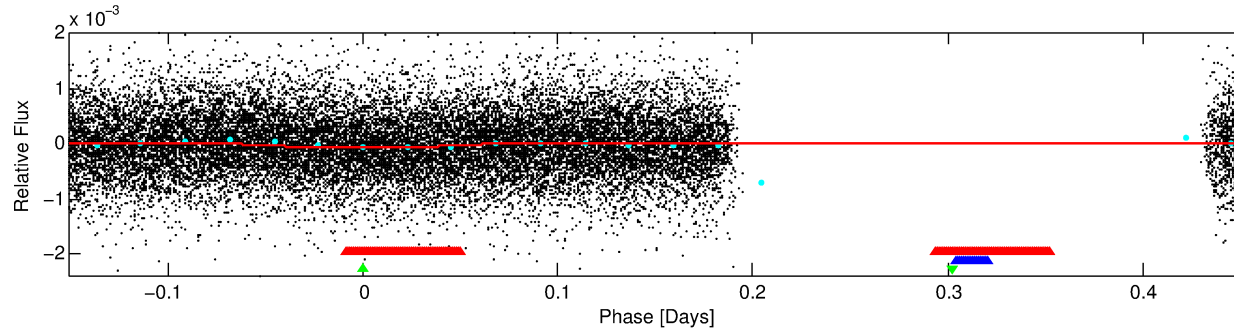
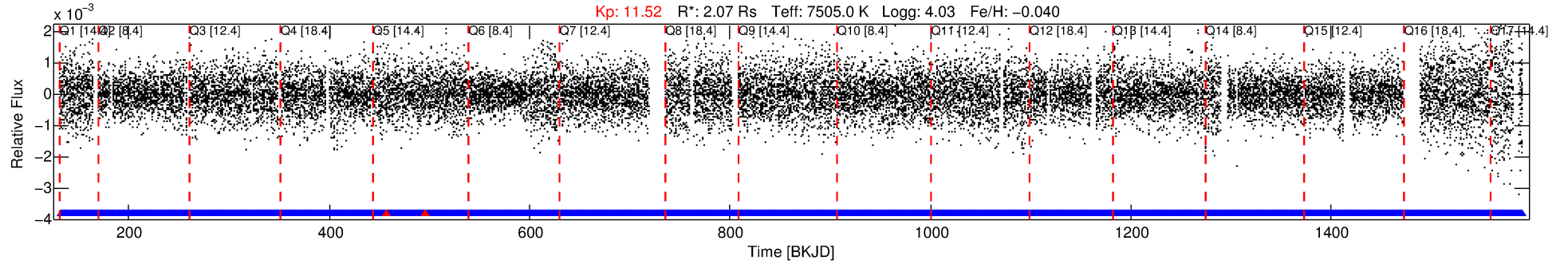
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879187-03

No Significant Match Found

DV One-Page Summary

KIC: 5879187 Candidate: 3 of 3 Period: 0.605 d



DV Fit Results:

Period = 0.60453 [0.00002] d
Epoch = 131.9794 [0.0044] BKJD
Rp/R* = 0.0065 [0.0057]
a/R* = 1.73 [6.24]
b = 0.34 [14.14]
Seff = 44084.26 [9412.41]
Teq = 3695 [197] K
Rp = 1.47 [1.32] Re
a = 0.0167 [0.0024] AU

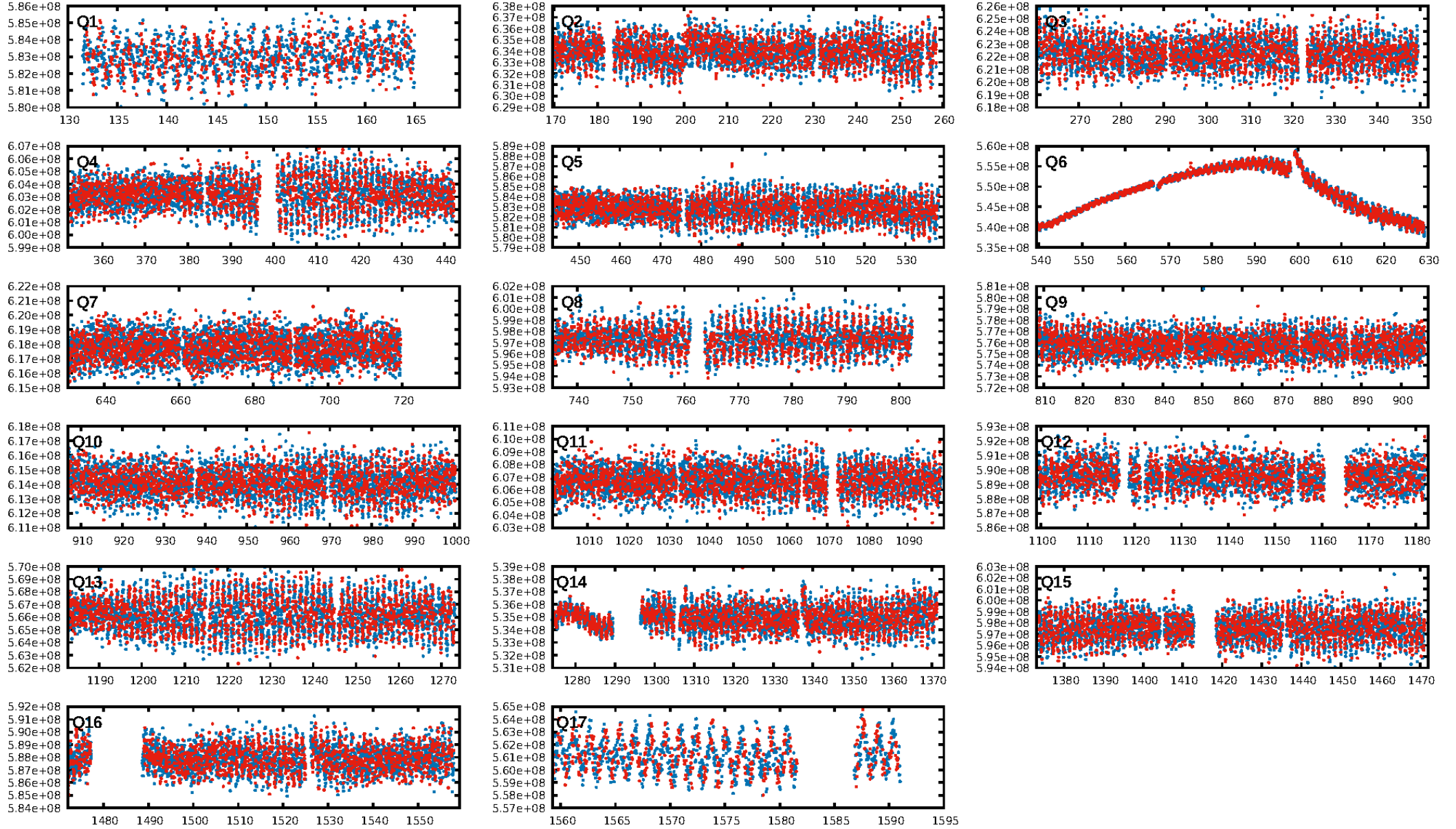
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.83e-24
RollingBand-fgt: 1.00 [1407/1409]
GhostDiagnostic-chr: 3.684
Centroid-sig: N/A
Centroid-so: 0.119 arcsec [0.75σ]
OotOffset-rm: 0.163 arcsec [0.85σ]
KicOffset-rm: 0.099 arcsec [0.53σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.88 [14/16]
DiffImageOverlap-fno: 0.00 [0/17]

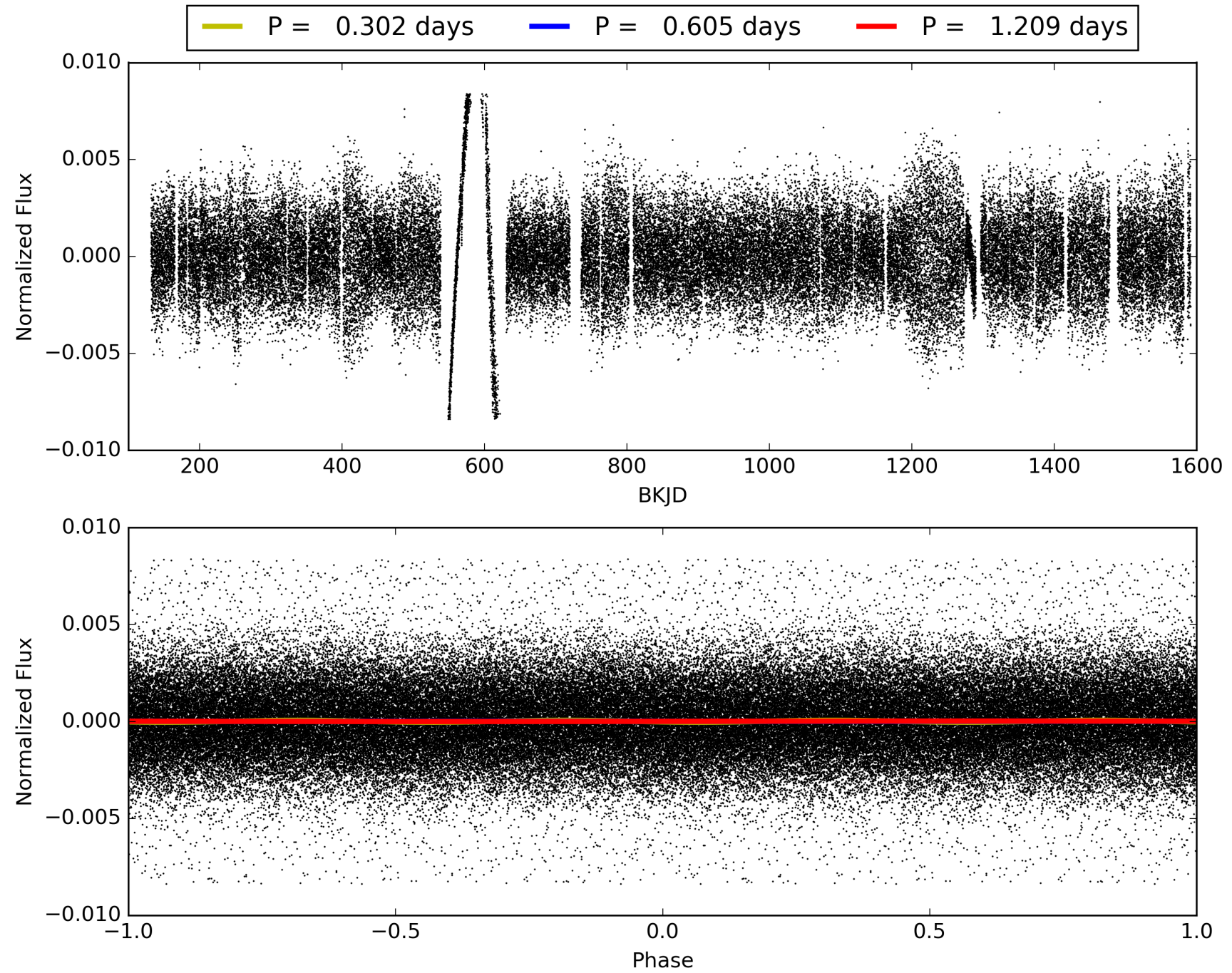
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:46:29 Z

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

TCE 005879187-03, PDC Light Curves

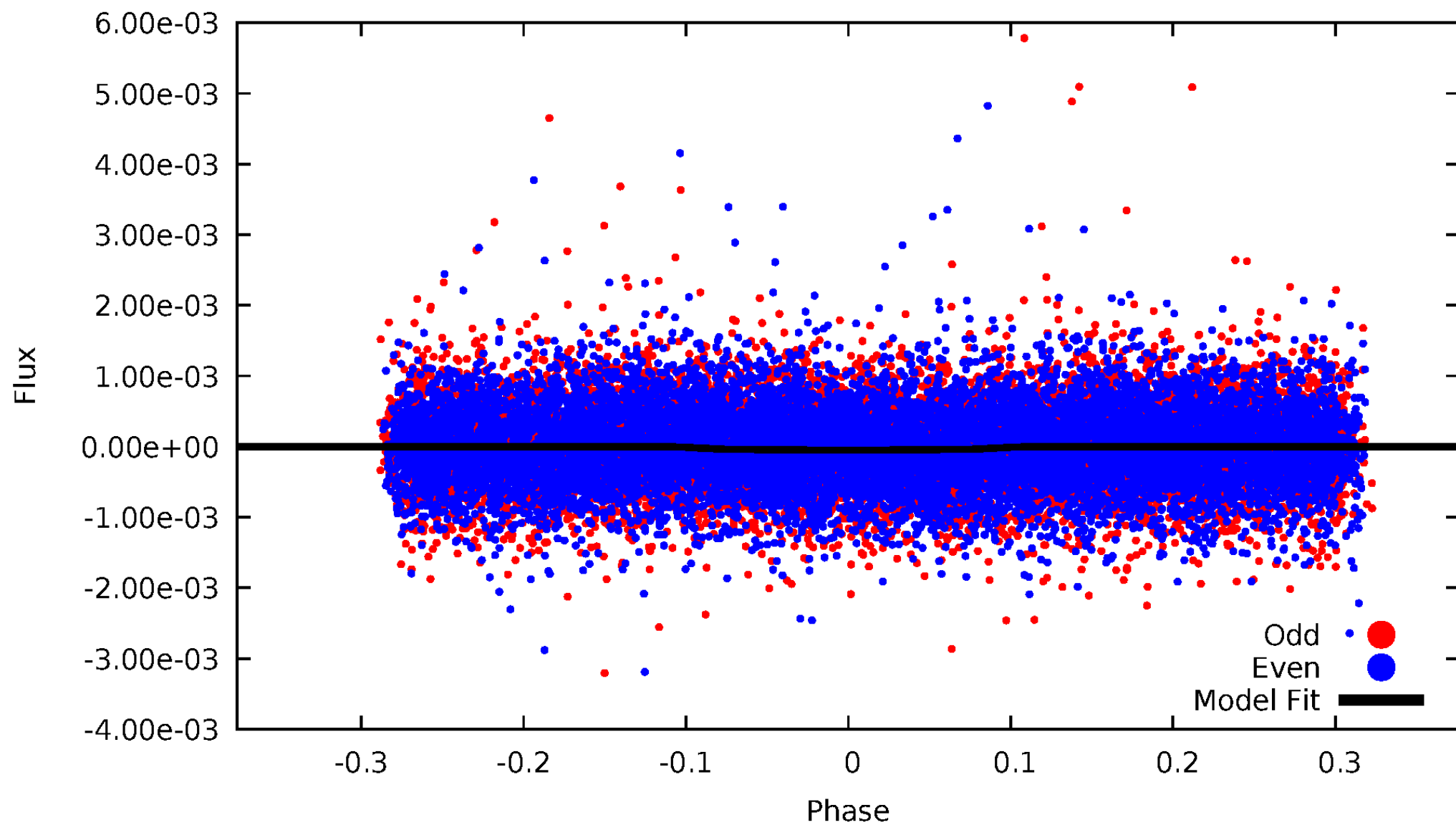


TCE 005879187-03



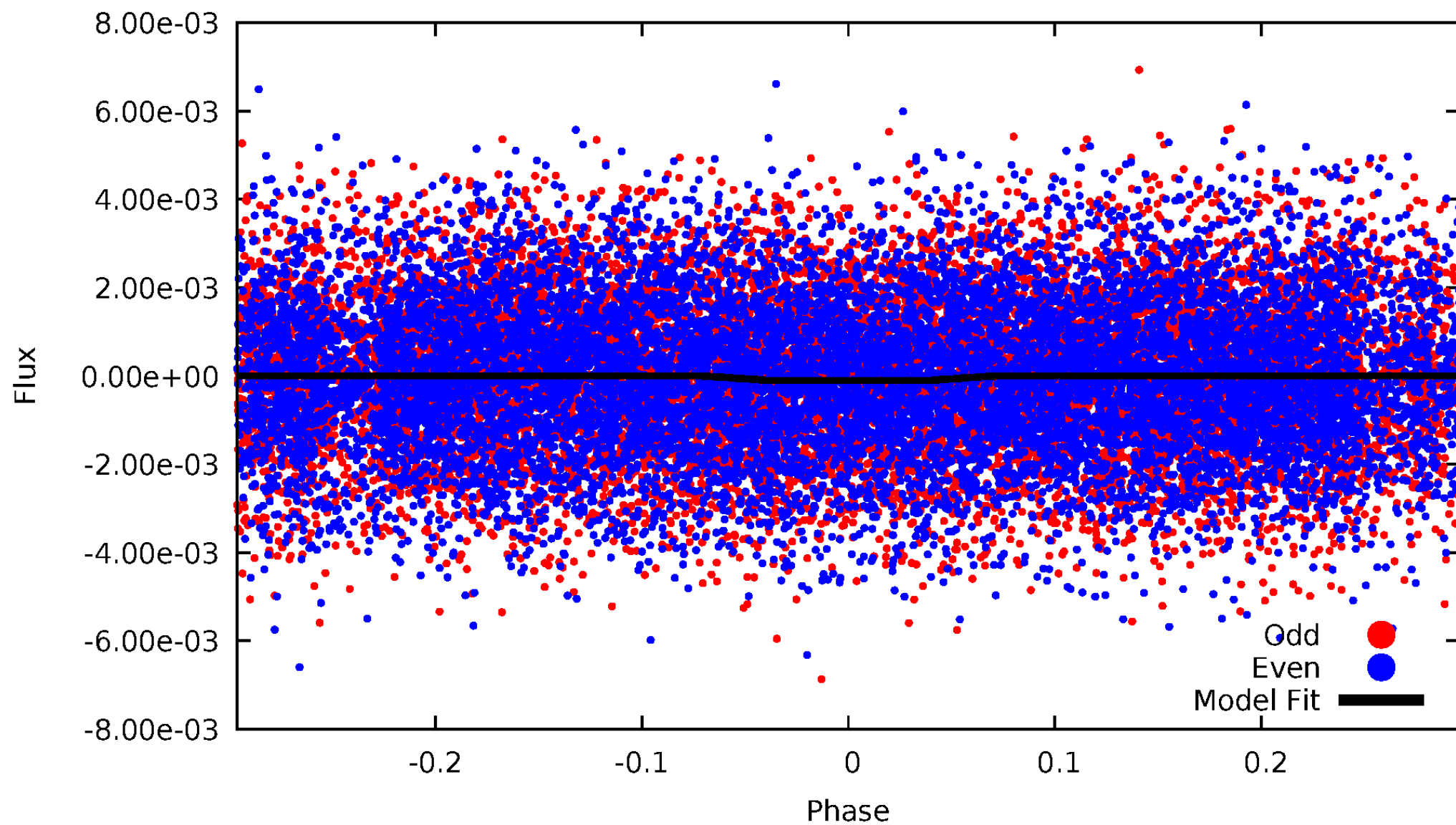
DV Odd/Even

TCE 005879187-03



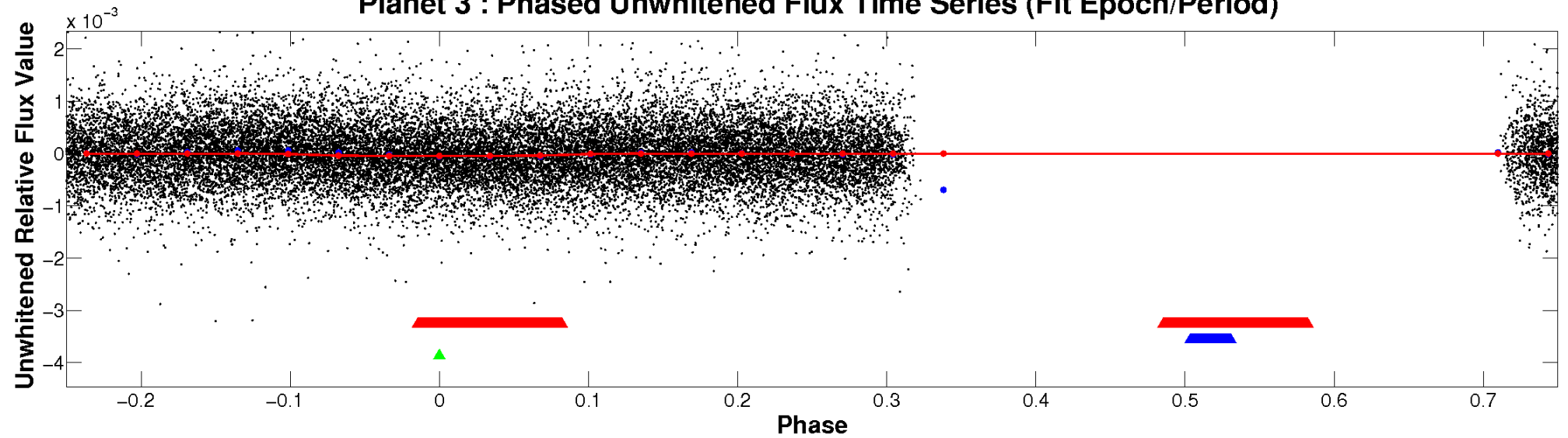
ALT Odd/Even

TCE 005879187-03

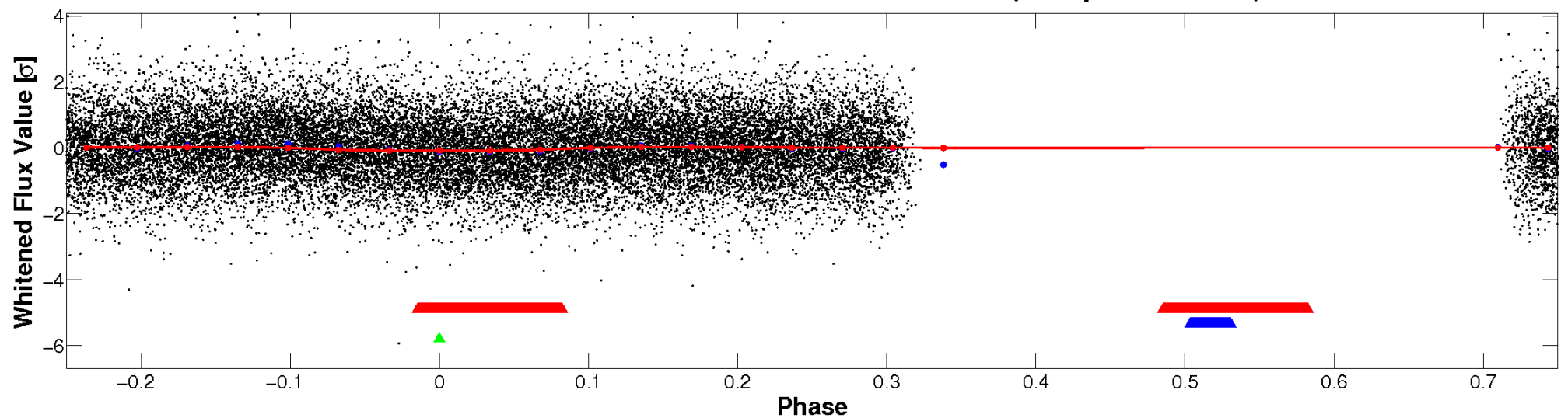


Non-Whitened Vs. Whitened Light Curve

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

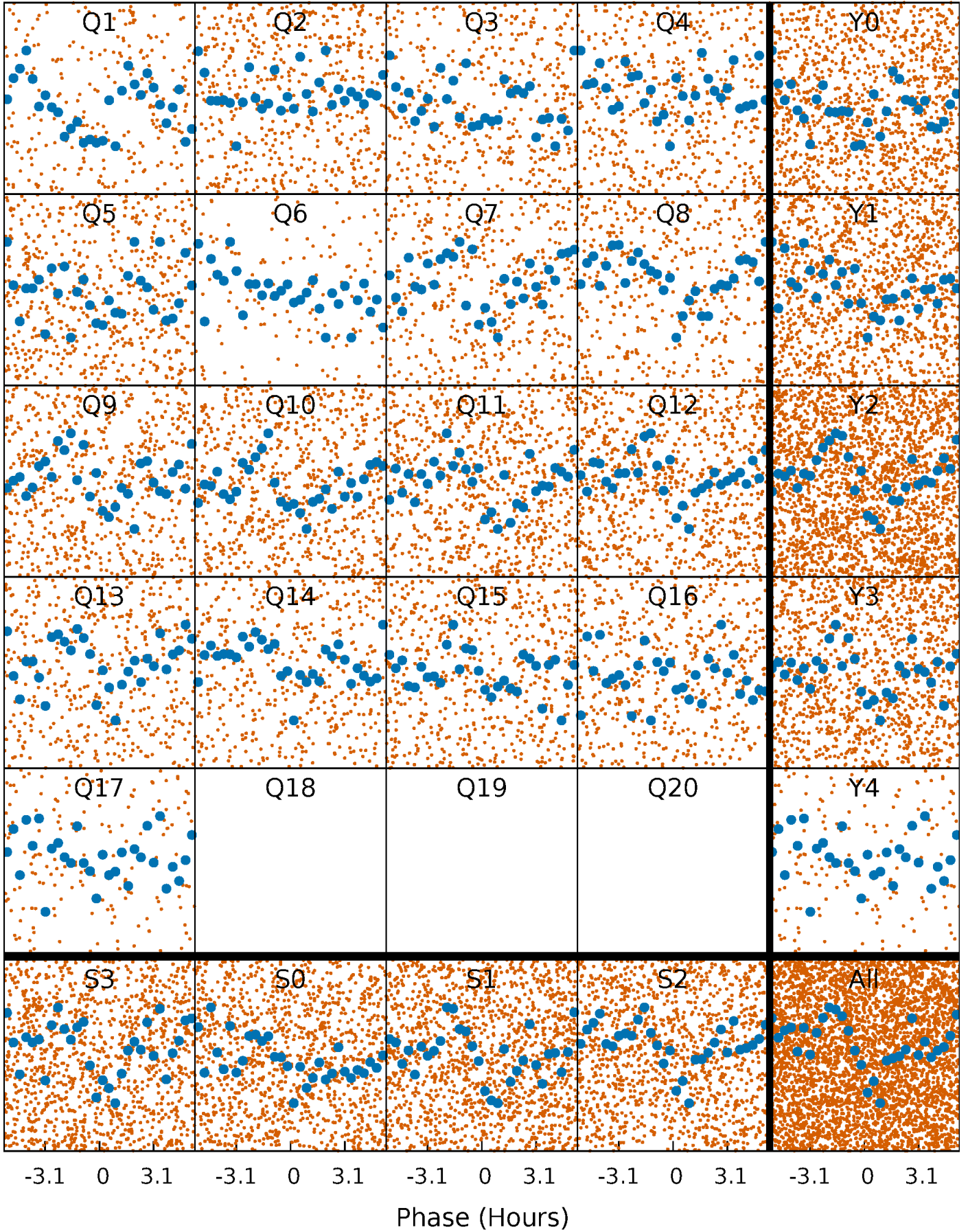


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



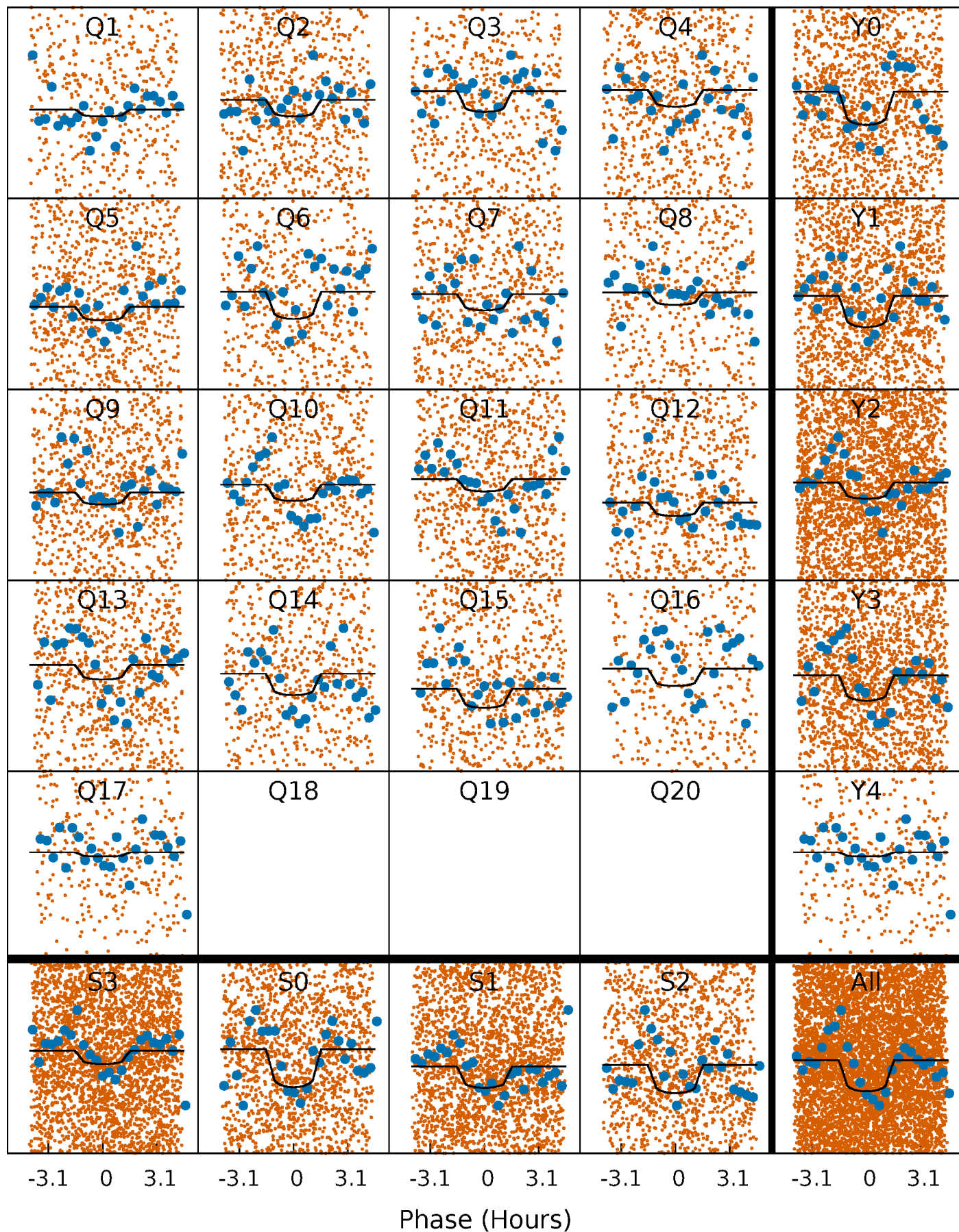
PDC Quarter-Phased Transit Curves

TCE 005879187-03 P= 0.604525 Days $T_0=131.979392$ (BKJD)



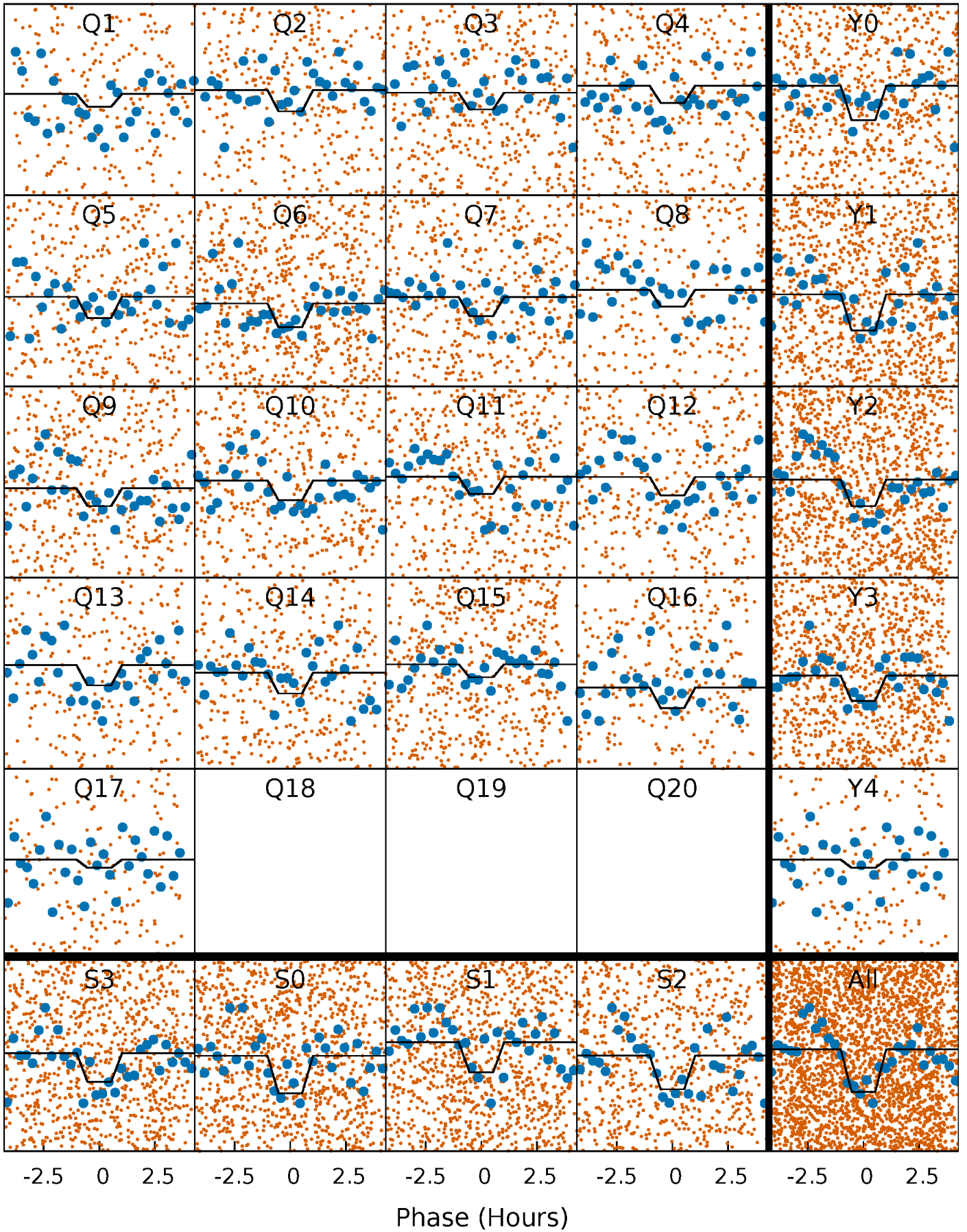
DV Quarter-Phased Transit Curves

TCE 005879187-03 P= 0.604525 Days $T_0=131.979392$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

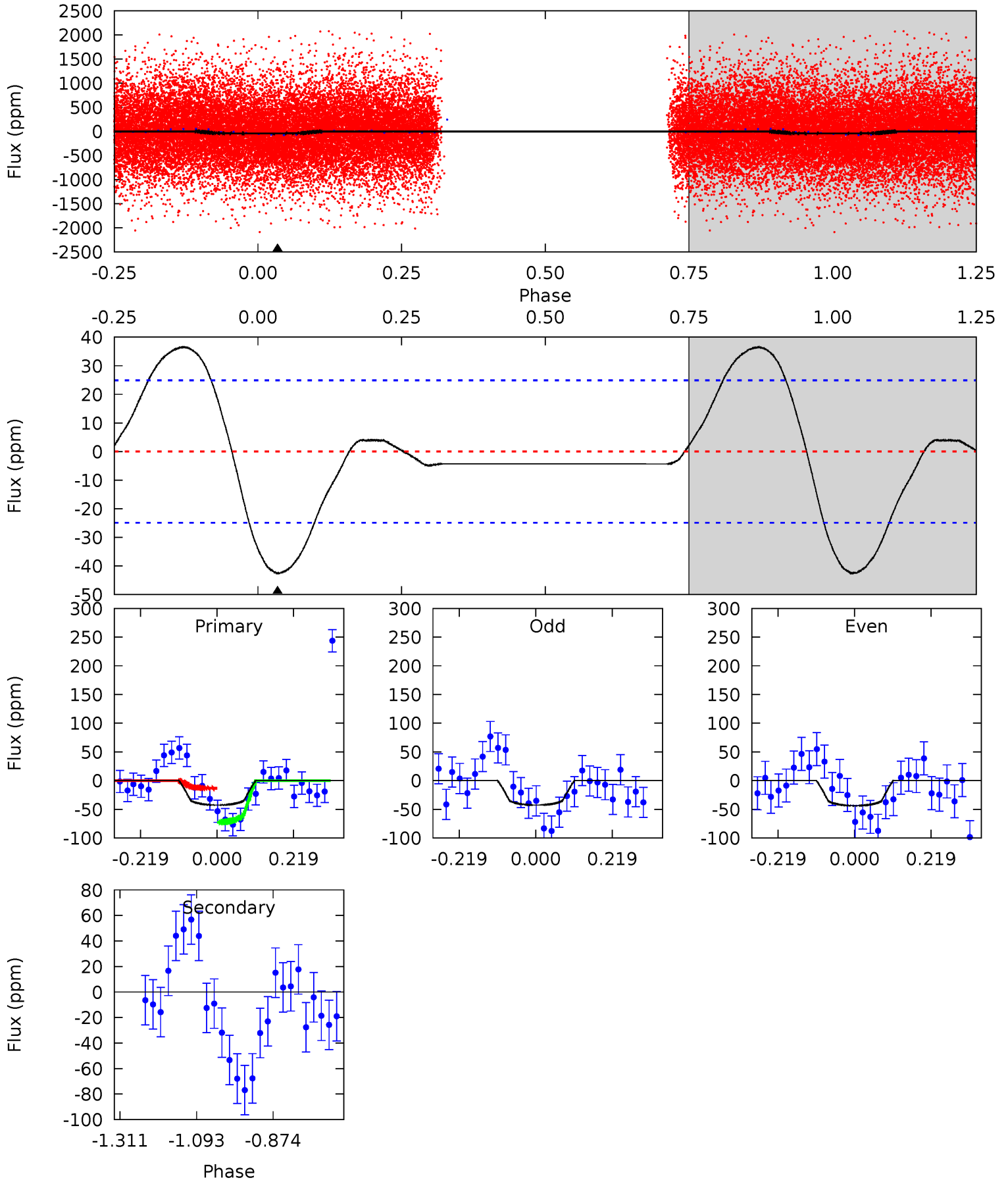
TCE 005879187-03 P= 0.604548 Days $T_0=131.967166$ (BKJD)



DV Model-Shift Uniqueness Test

005879187-03, P = 0.604525 Days, E = 131.374867 Days

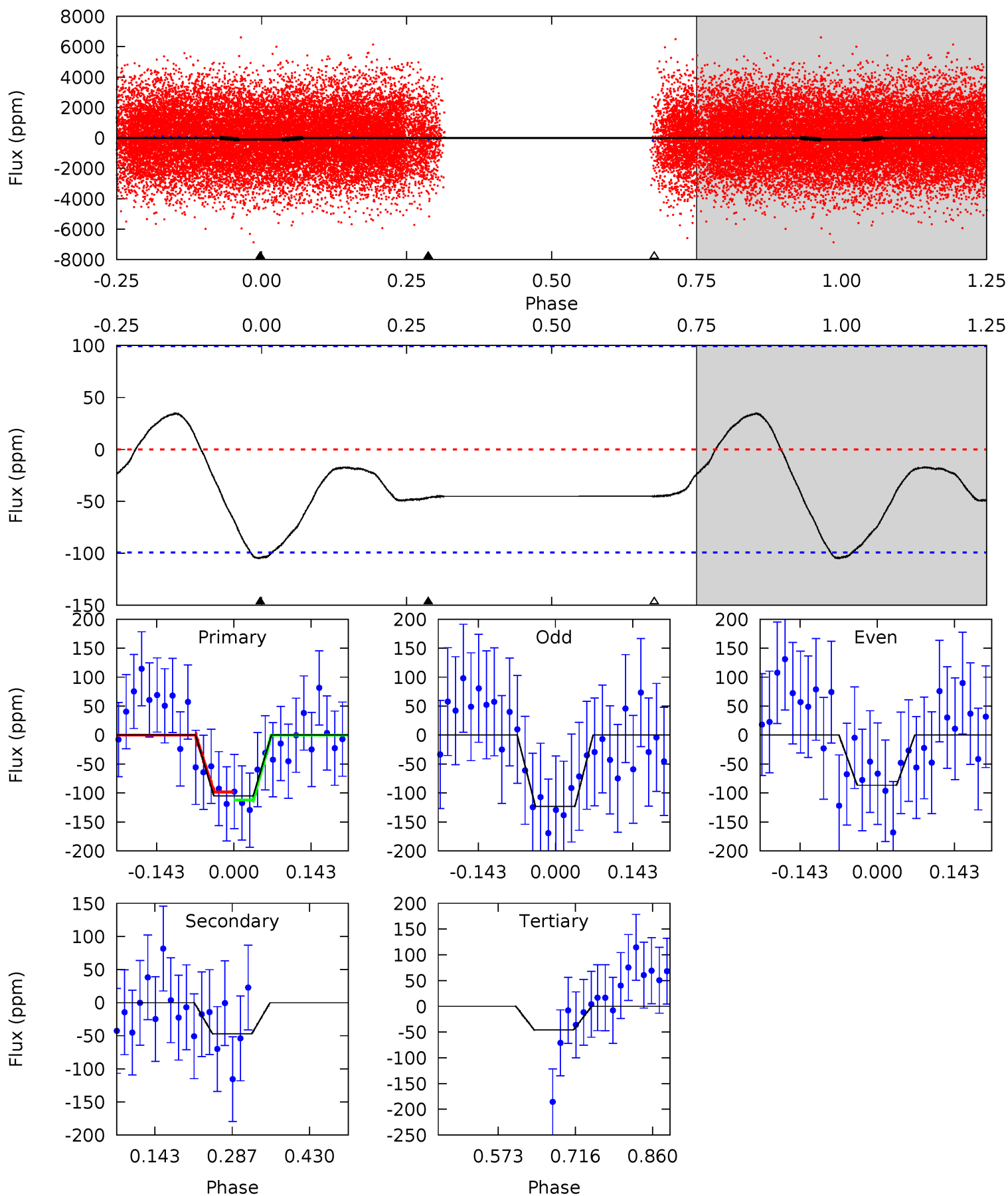
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.54	0	0	0	4.40	1.23	1.71	7.54	7.54	0	0	0.09	1.00	0.46	5.43



Alt Model-Shift Uniqueness Test

005879187-03, P = 0.604548 Days, E = 131.362618 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.75	2.12	2.06	0	4.49	1.46	1.31	2.69	4.75	0.06	2.12	0.83	1.18	0.25	0.31



Stellar Parameters For KIC 005879187

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7505^{+82}_{-75}	$4.031^{+0.115}_{-0.103}$	$-0.040^{+0.150}_{-0.150}$	$2.074^{+0.348}_{-0.313}$	$1.682^{+0.151}_{-0.136}$	$0.266^{+0.138}_{-0.091}$
	+1%/-1%	+3%/-3%	+375%/-375%	+17%/-15%	+9%/-8%	+52%/-34%
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 005879187-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 6	$1.66^{+1.29}_{-0.96}$	5164^{+213}_{-205}	-4365^{+8428}_{-874}	$0.004^{+0.489}_{-0.403}$
Alt.	-47 ± 22	$2.34^{+1.30}_{-1.23}$	5167^{+206}_{-211}	5647^{+3208}_{-1999}	$1.304^{+4.085}_{-0.897}$

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 $A_{obs} \gg 1.0$

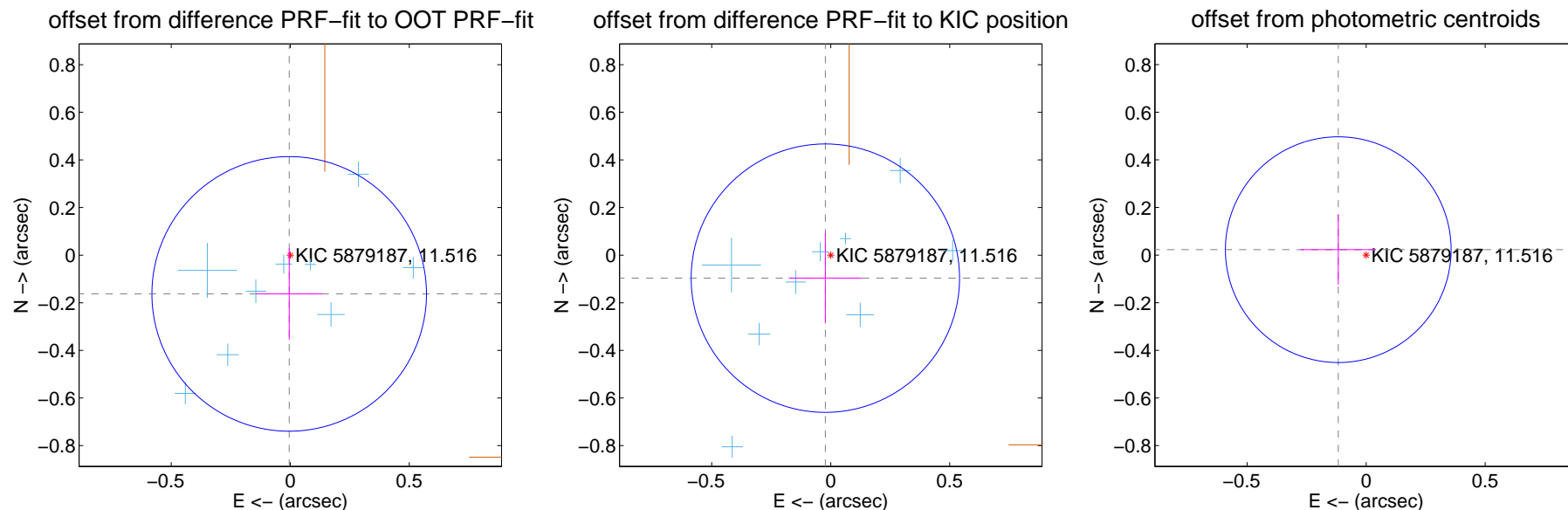
DV Centroid Data

Supplemental centroid analysis for 005879187-03. **Kepler magnitude: 11.52.** Transit SNR 6.52

There are 14 quarters with good PRF difference image offsets

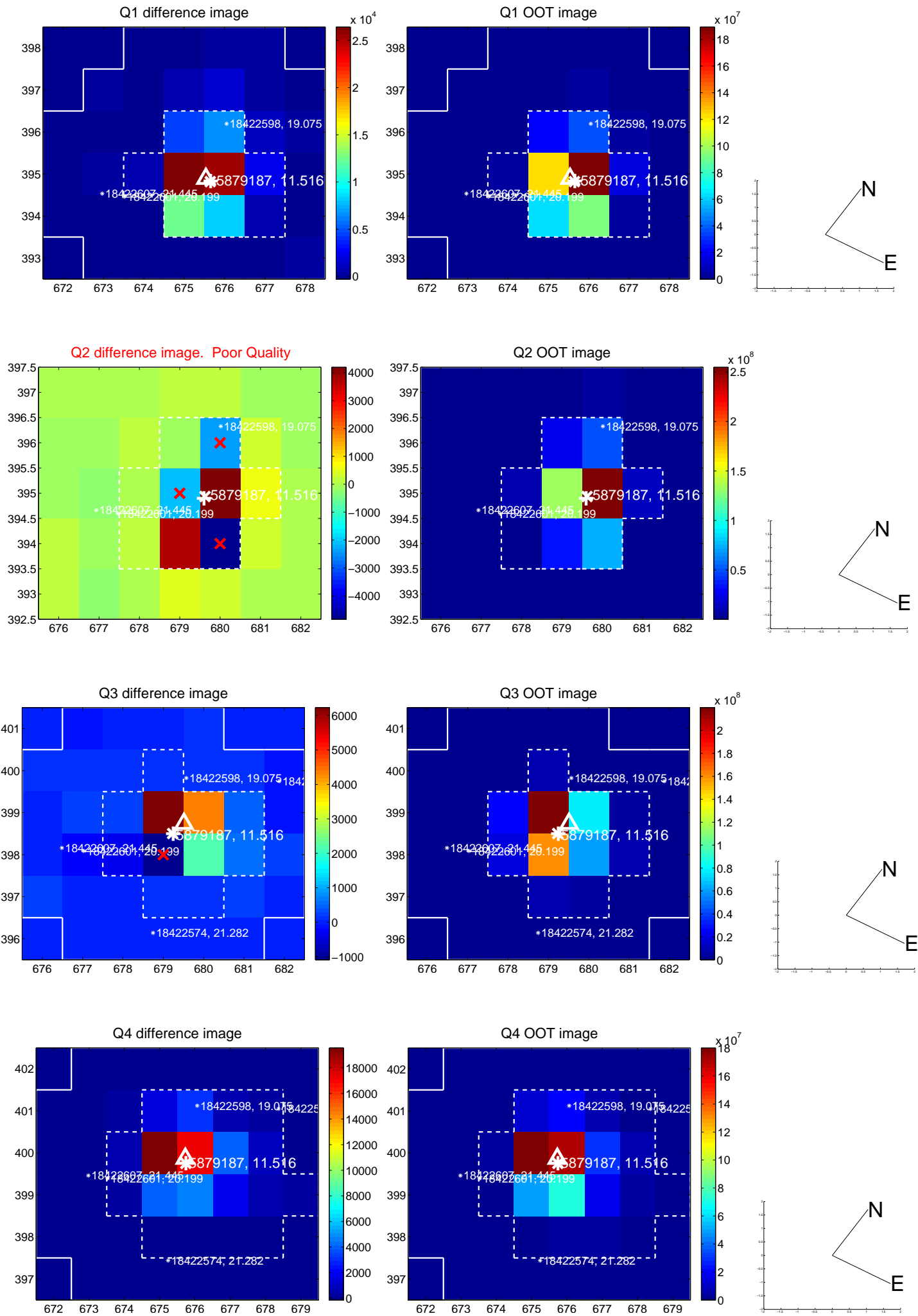
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.163 ± 0.192	0.85	0.005 ± 0.139	-0.163 ± 0.192
PRF-fit source offset from KIC position	0.099 ± 0.188	0.53	0.023 ± 0.154	-0.097 ± 0.190
photometric centroid source offset	0.12 ± 0.16	0.75	0.12 ± 0.16	0.02 ± 0.15

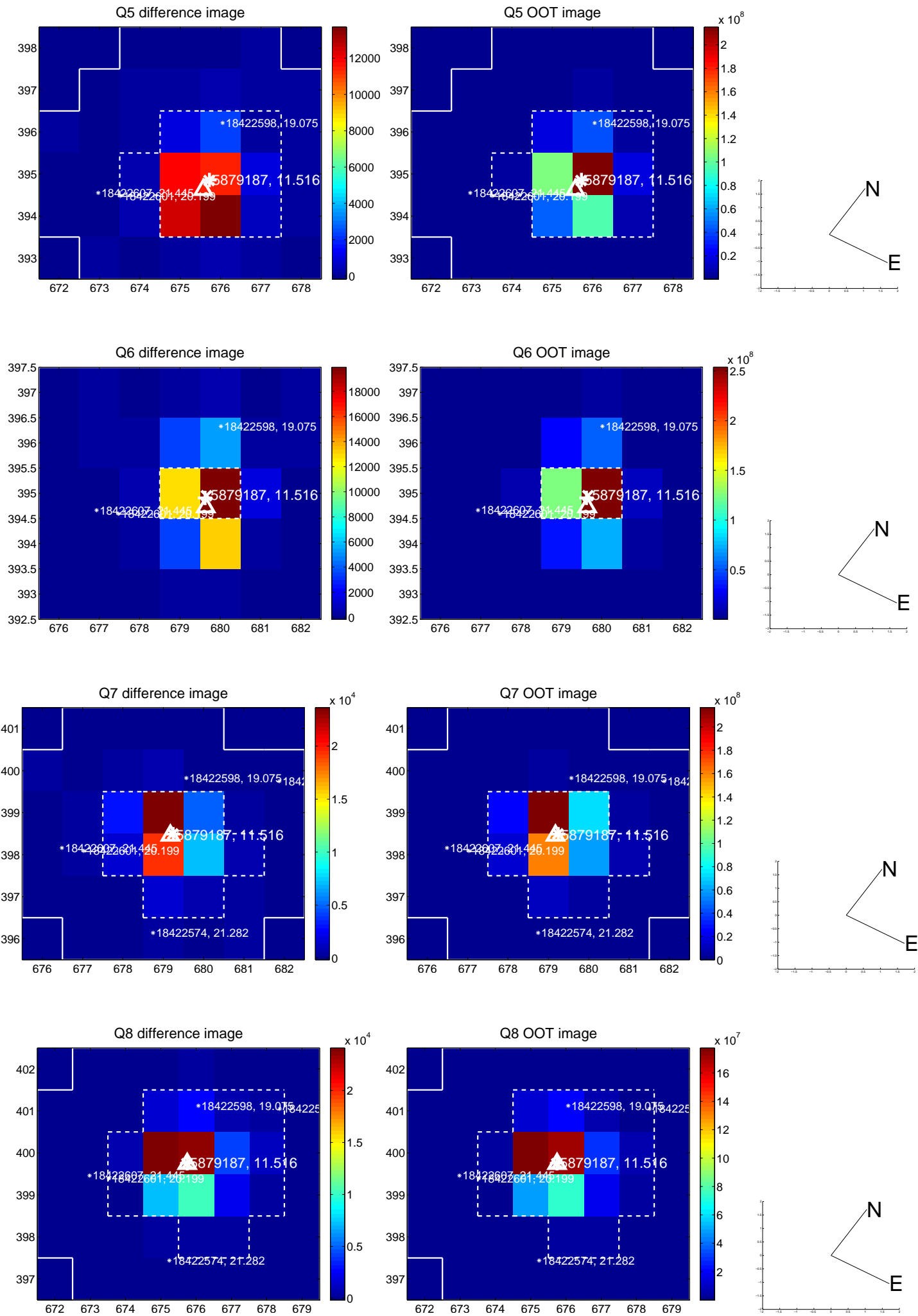


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

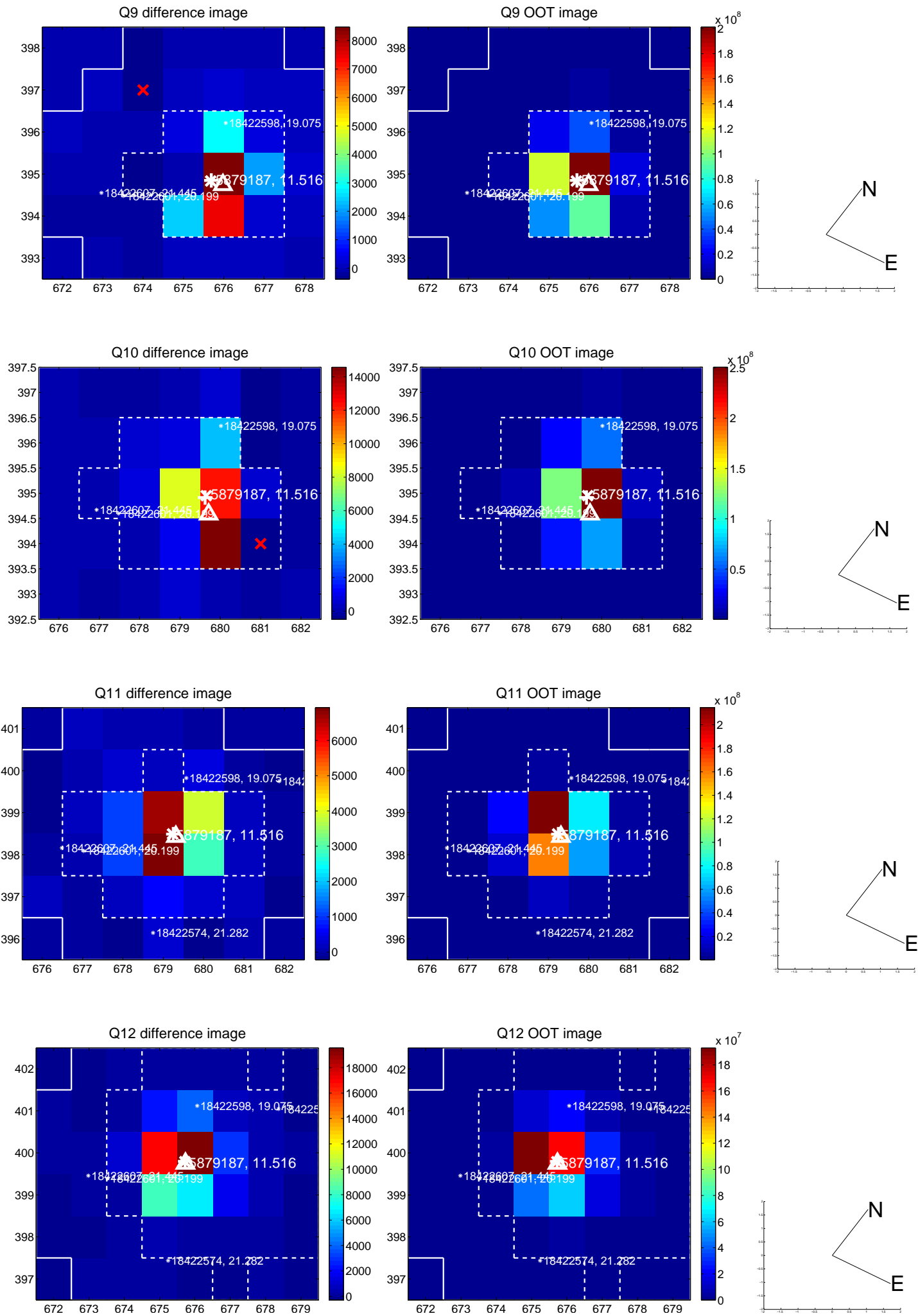
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



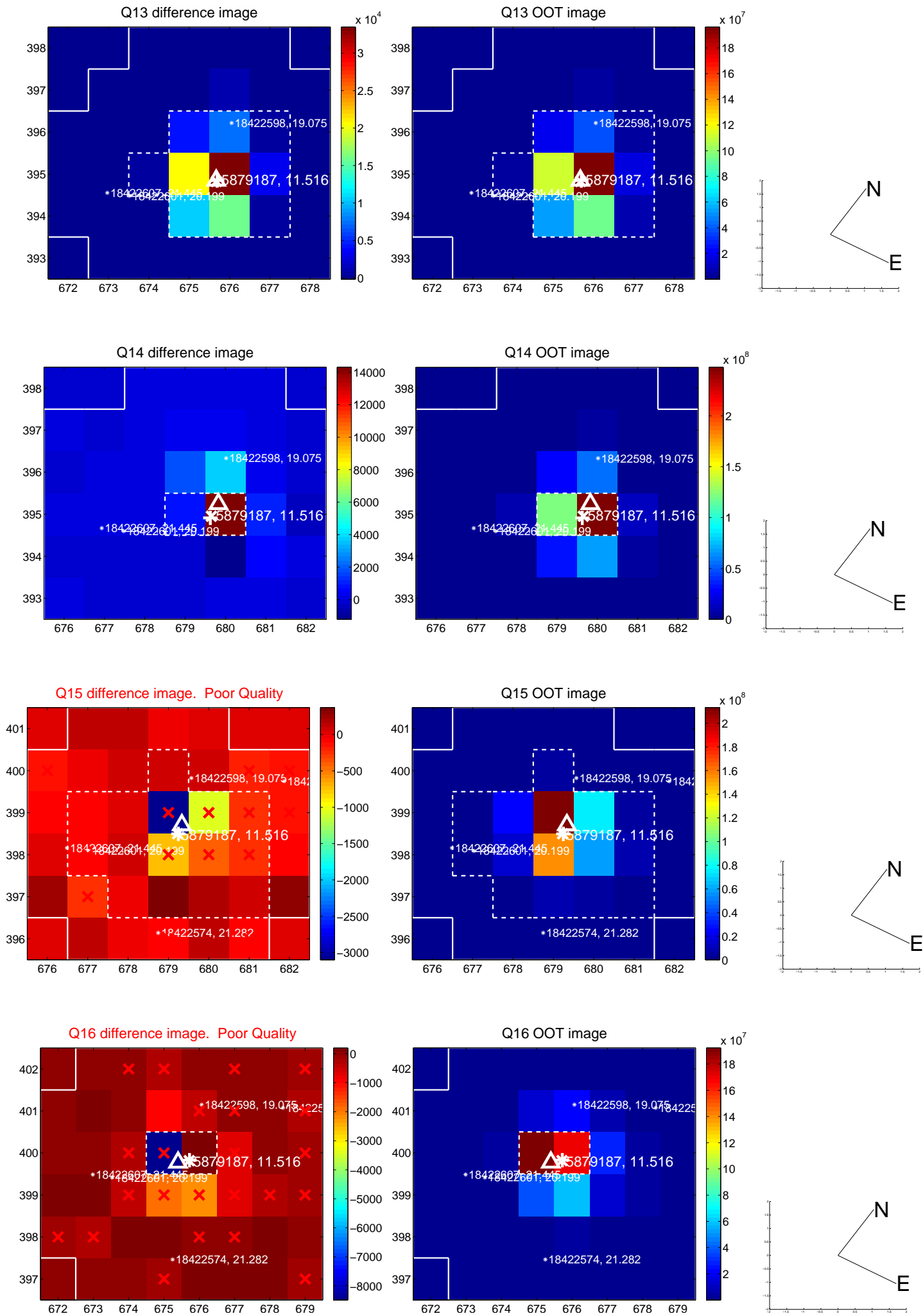
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



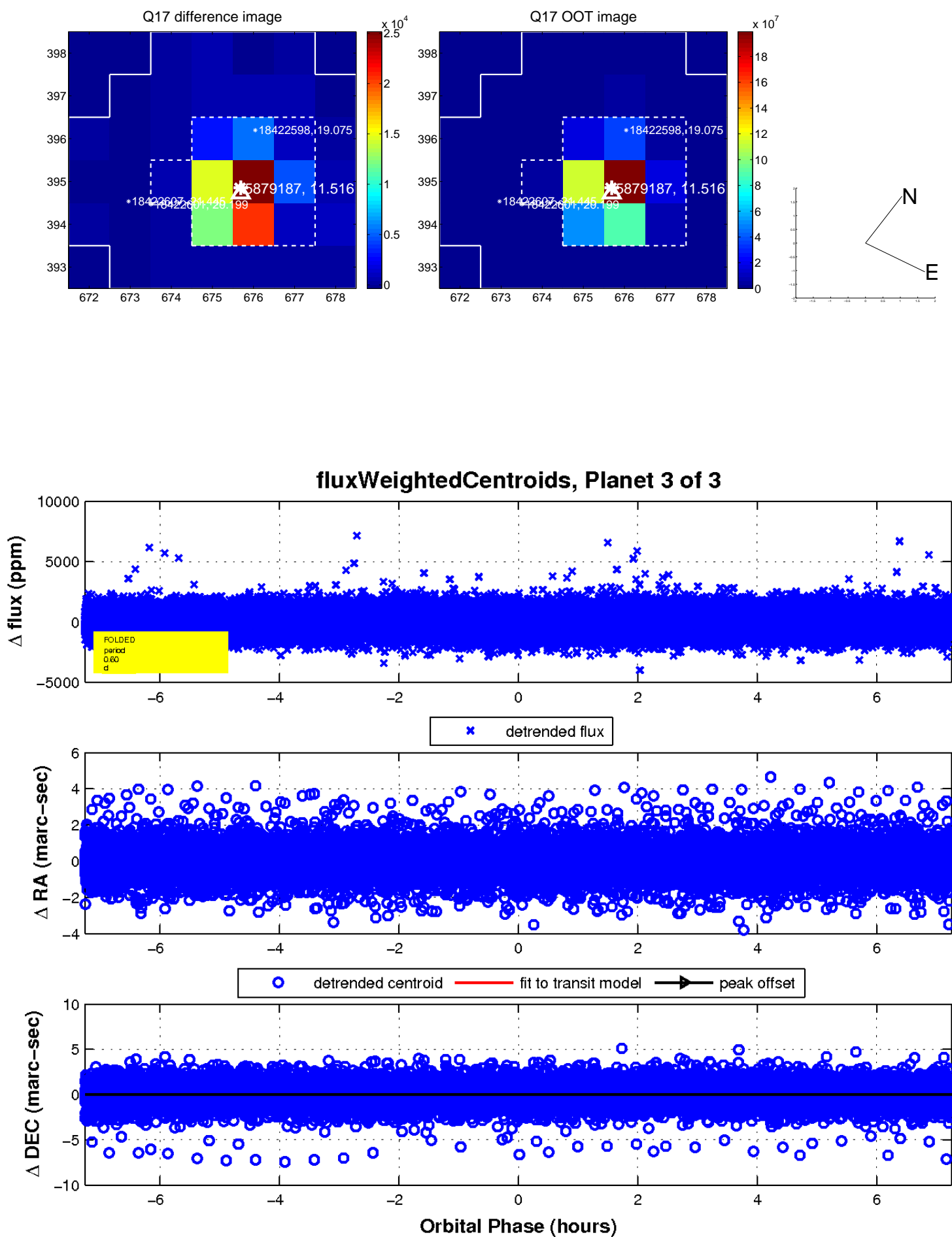
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

