

KIC 002285586

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})
002285586-01	OBS	No	0.521878	131.543863	34.3	1.552	9.1	7.7	1.62	6859	1.10	25302.57
002285586-02	OBS	No	0.522039	131.853463	58.9	1.971	9.0	6.7	1.62	6859	1.45	25292.14
002285586-03	OBS	No	28.487127	145.268947	1073.3	5.059	8.3	7.6	1.62	6859	9.94	122.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002285586-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
002285586-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SAME_NTL_PERIOD
002285586-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT

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

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

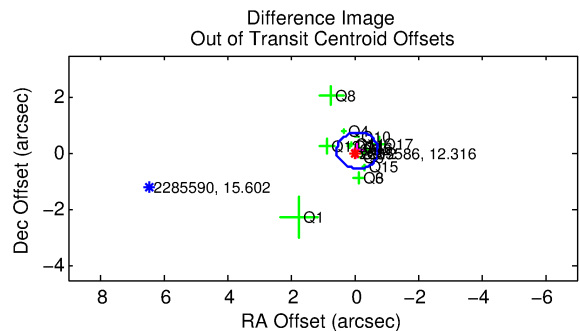
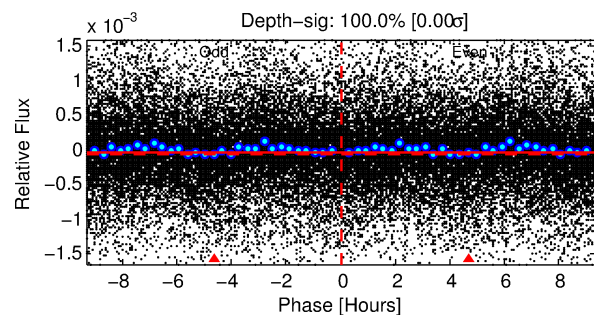
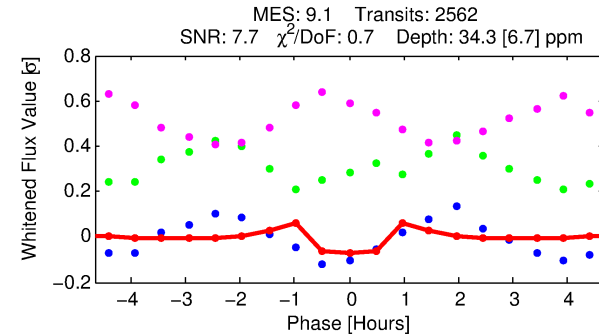
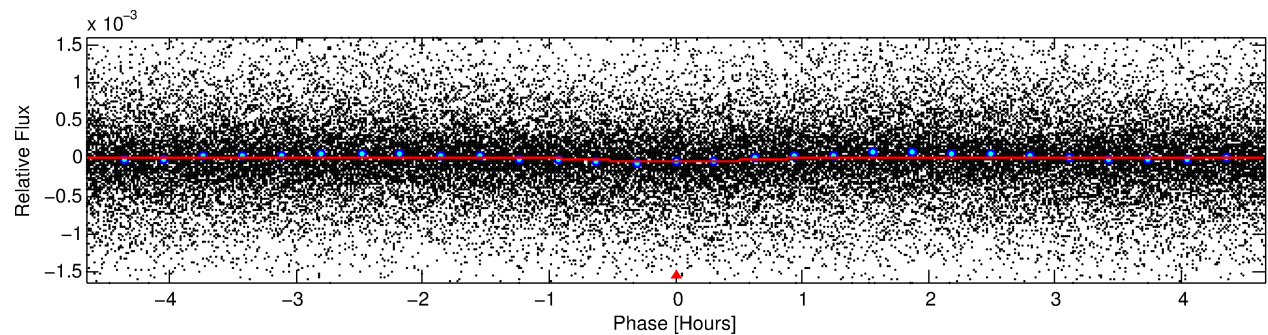
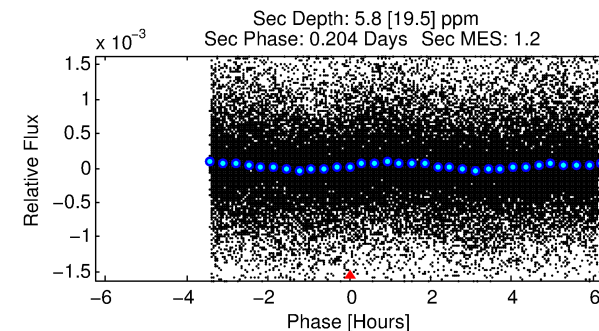
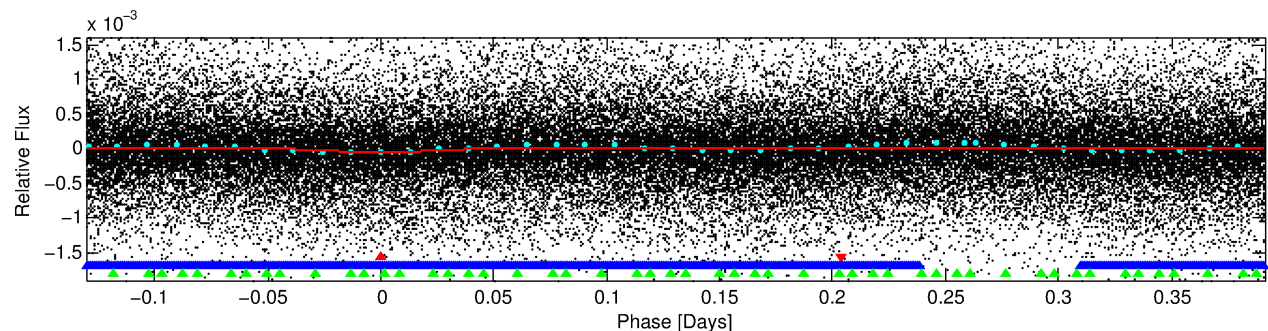
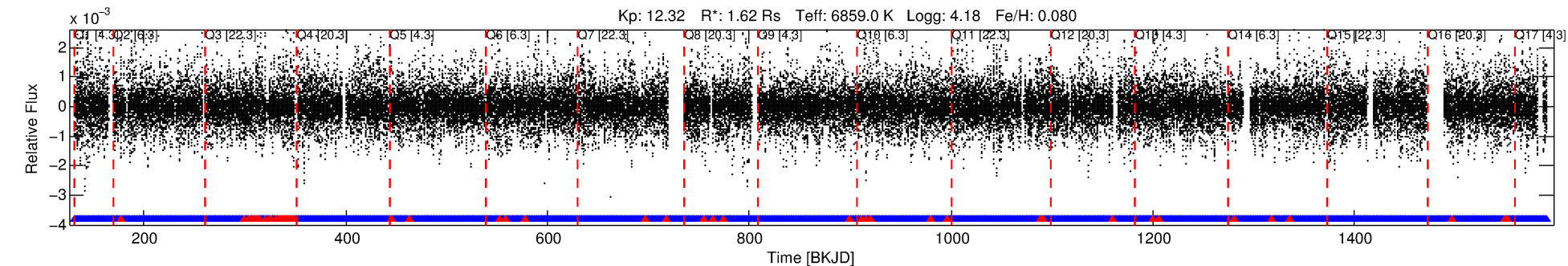
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 002285586-01

No Significant Match Found

DV One-Page Summary

KIC: 2285586 Candidate: 1 of 3 Period: 0.522 d



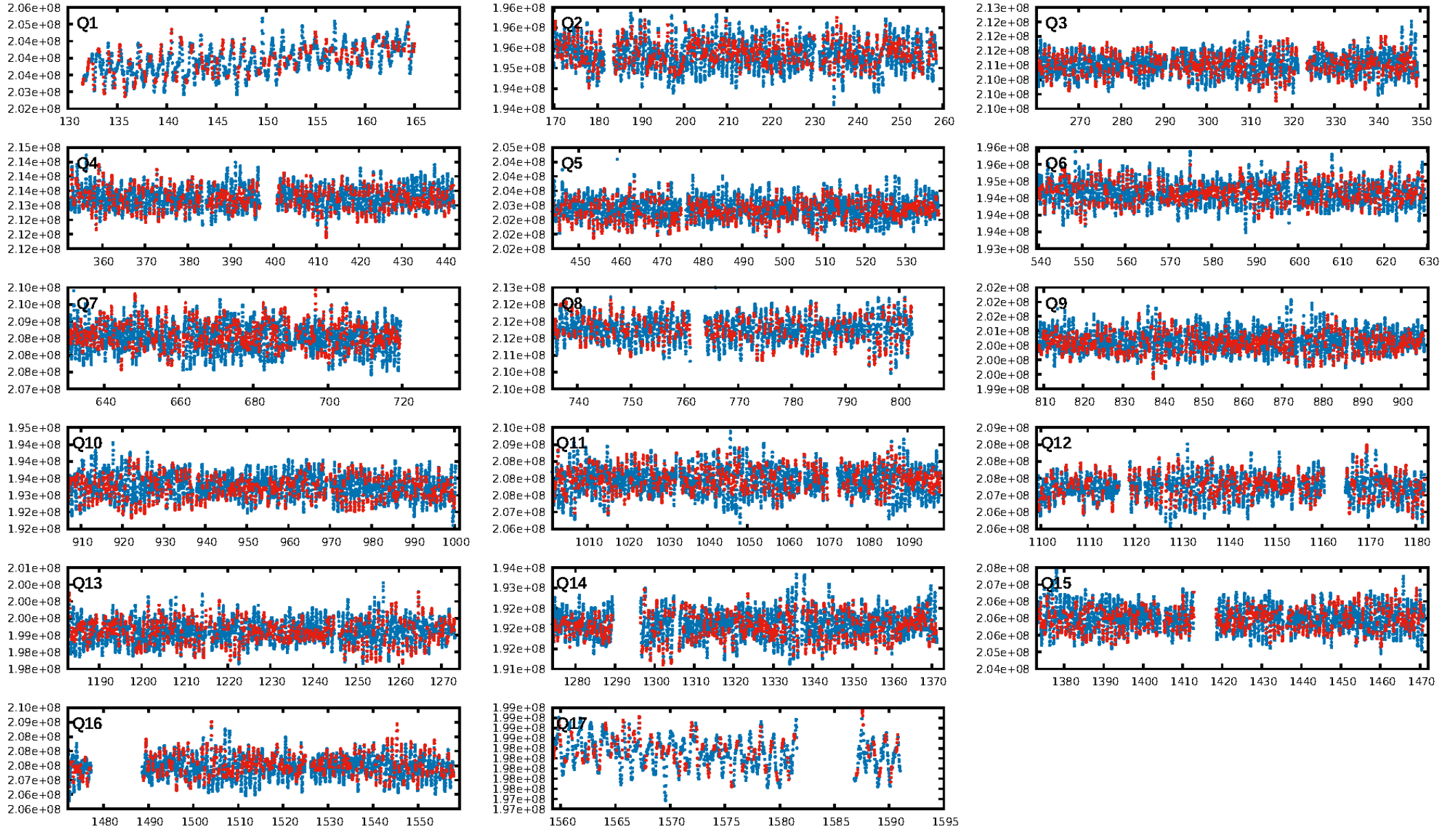
DV Fit Results:

Period = 0.52188 [0.00002] d
Epoch = 131.5439 [0.0015] BKJD
Rp/R* = 0.0063 [0.0015]
a/R* = 1.50 [1.09]
b = 0.90 [0.29]
Seff = 25302.57 [10785.22]
Teff = 3216 [343] K
Rp = 1.10 [0.45] Re
a = 0.0143 [0.0039] AU
Ag = 0.54 [1.83] [-0.25 σ]
Teffp = 4256 [3616] K [0.29 σ]

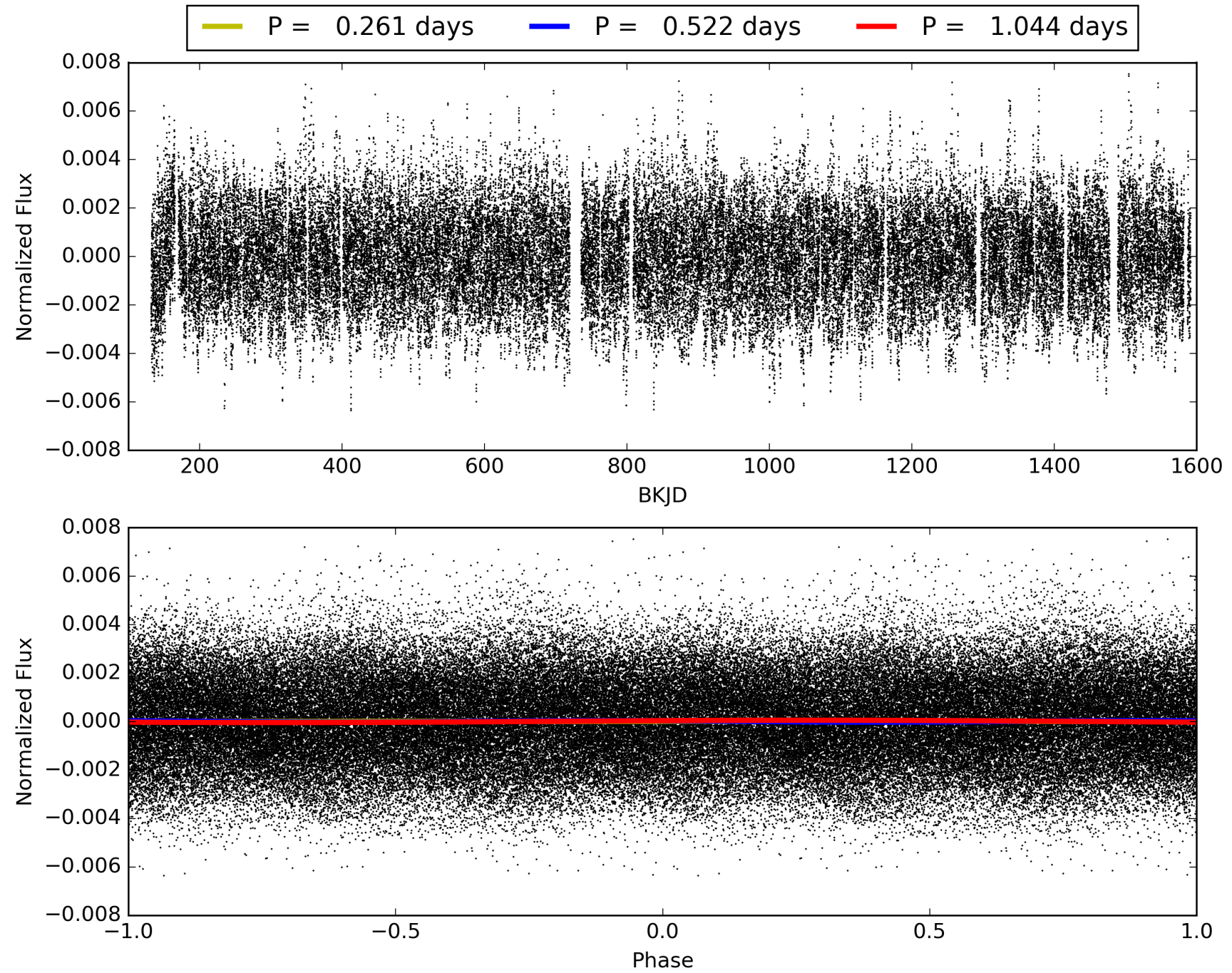
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.1% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.17e-18
RollingBand-fgt: 0.97 [2370/2446]
GhostDiagnostic-chr: -107.8
Centroid-sig: 0.3%
Centroid-so: 1.304 arcsec [1.71 σ]
OotOffset-rm: 0.152 arcsec [0.70 σ]
KicOffset-rm: 0.070 arcsec [0.31 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.47 [8/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 002285586-01, PDC Light Curves

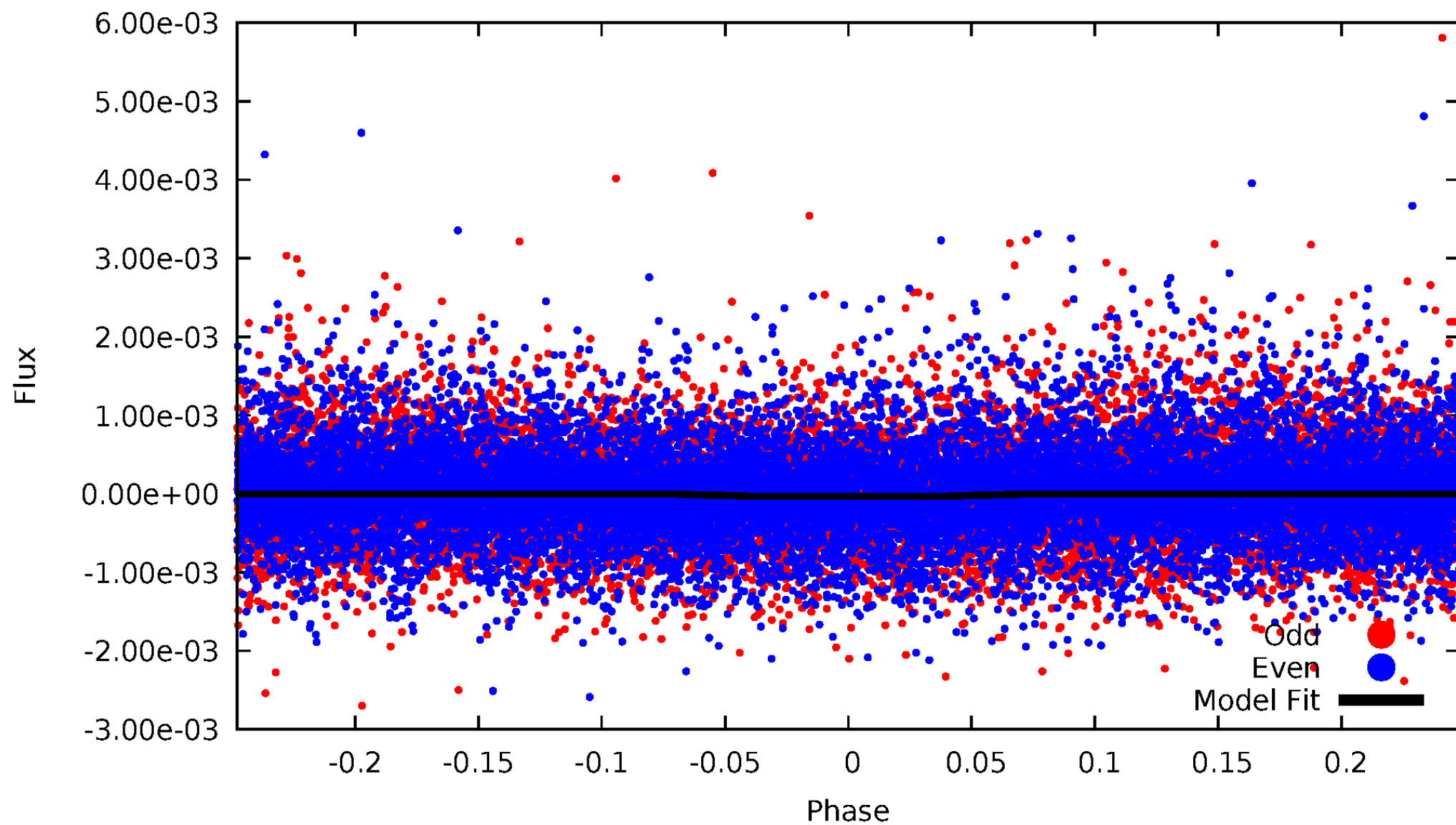


TCE 002285586-01



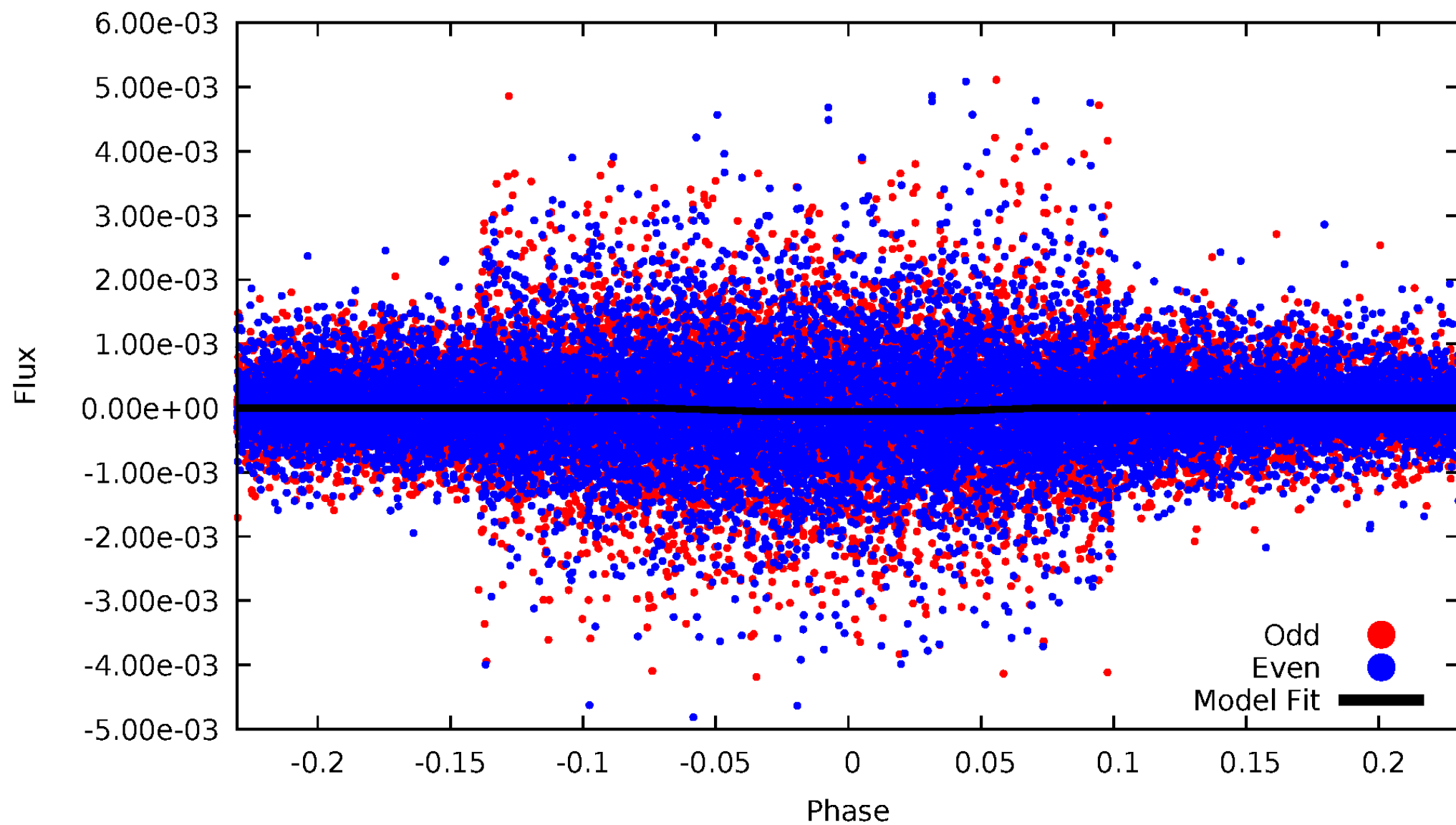
DV Odd/Even

TCE 002285586-01



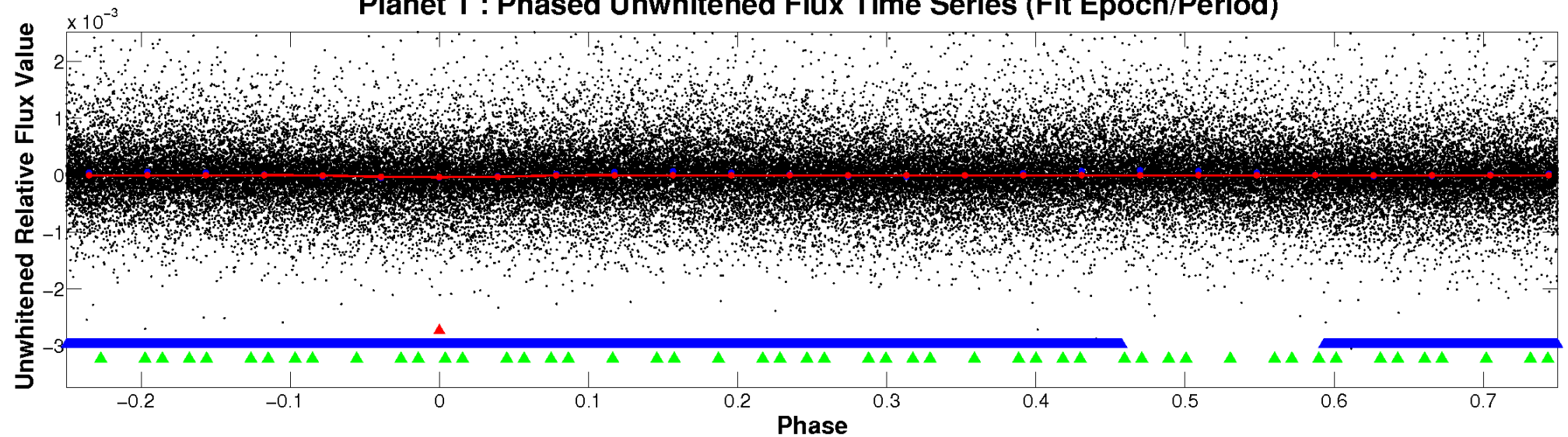
ALT Odd/Even

TCE 002285586-01

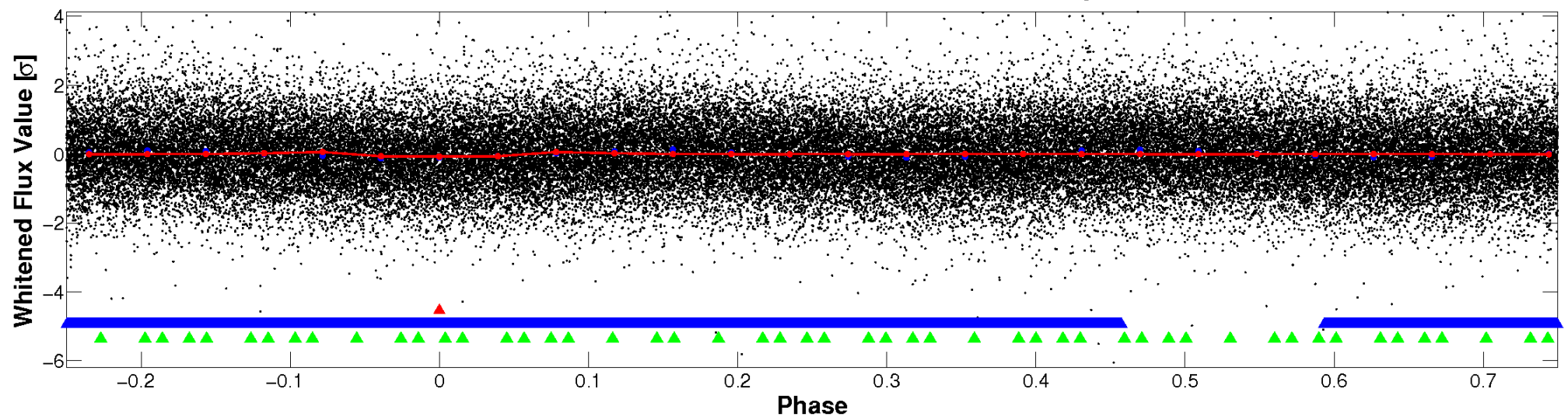


Non-Whitened Vs. Whitened Light Curve

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

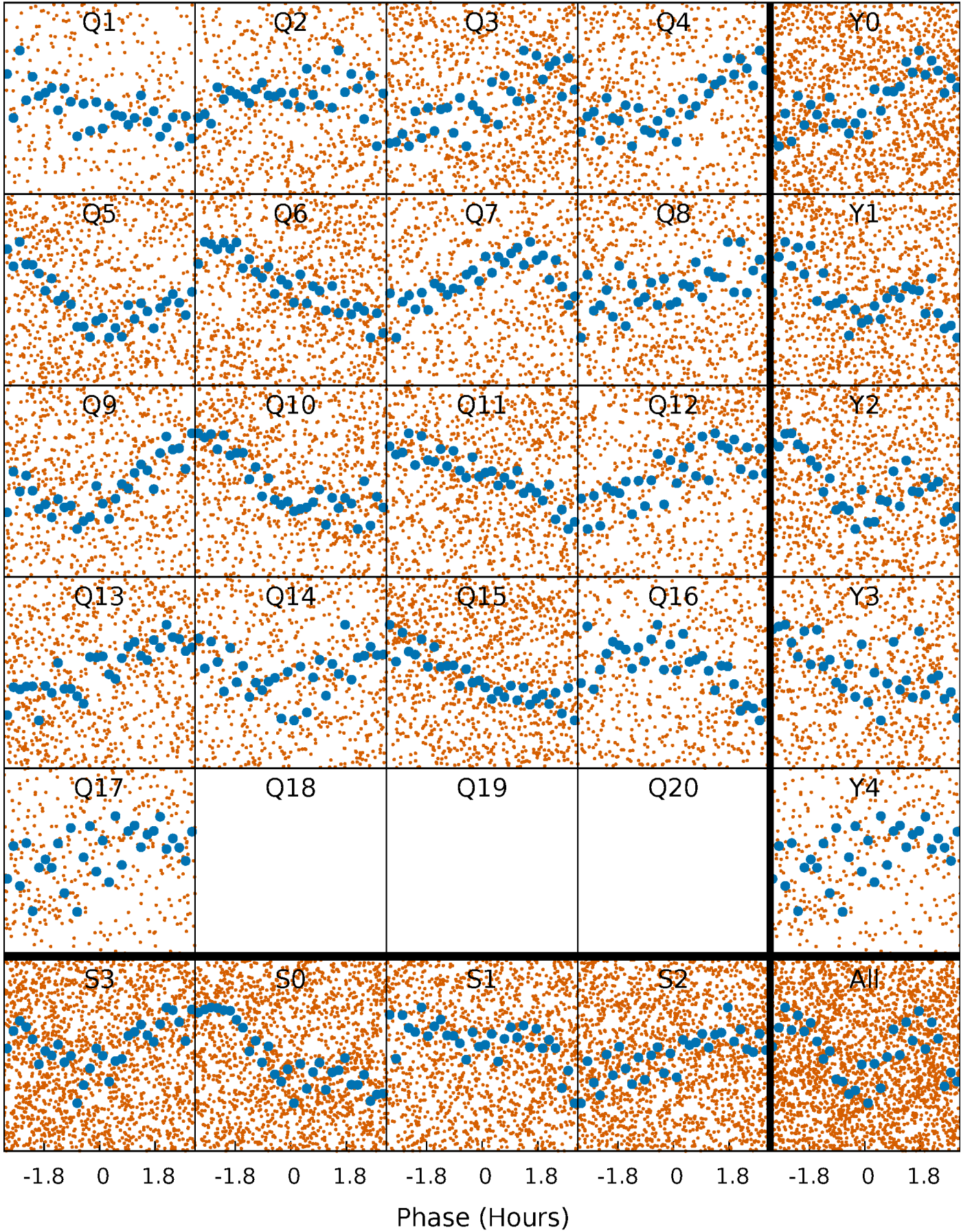


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



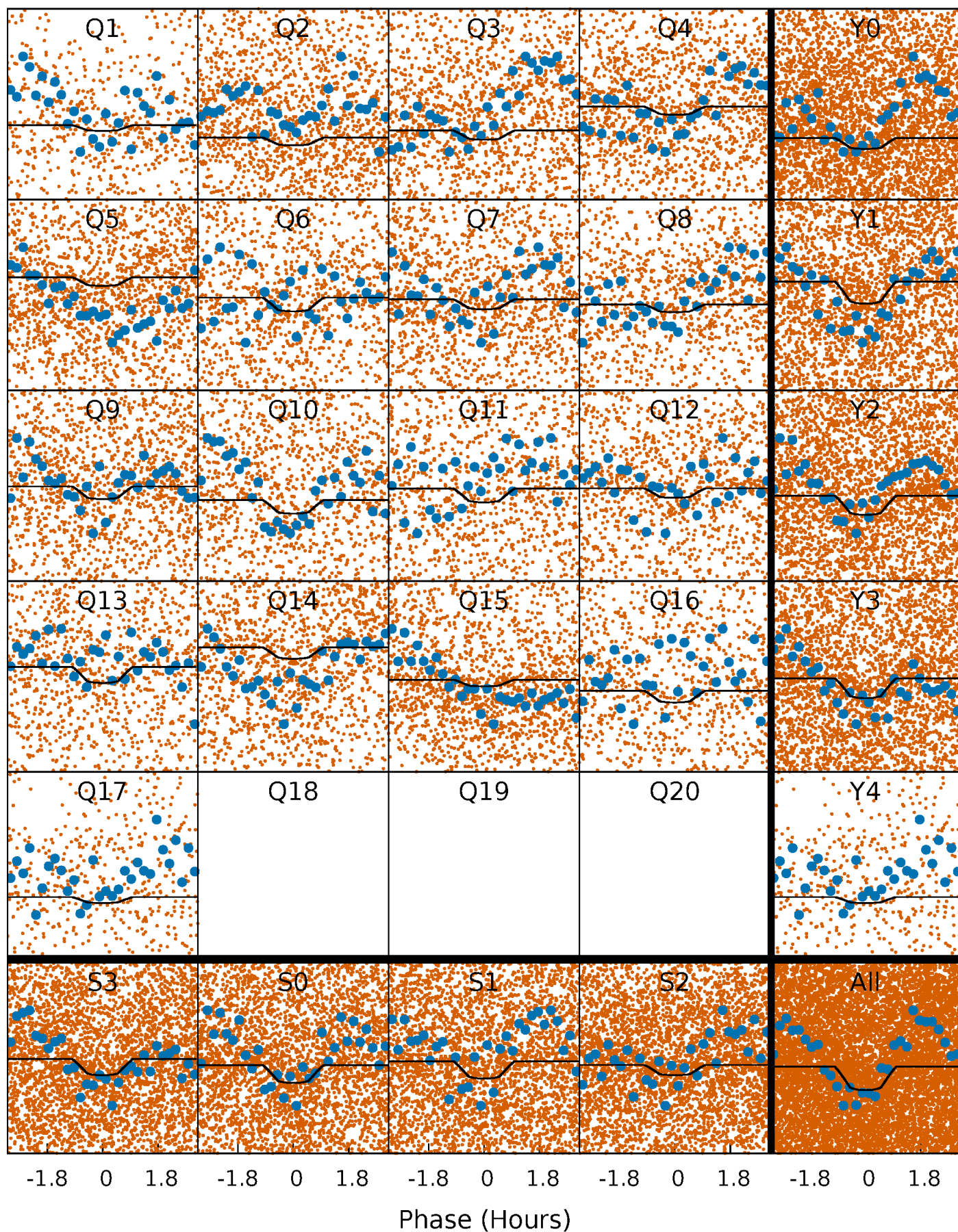
PDC Quarter-Phased Transit Curves

TCE 002285586-01 P= 0.521878 Days $T_0=131.543863$ (BKJD)



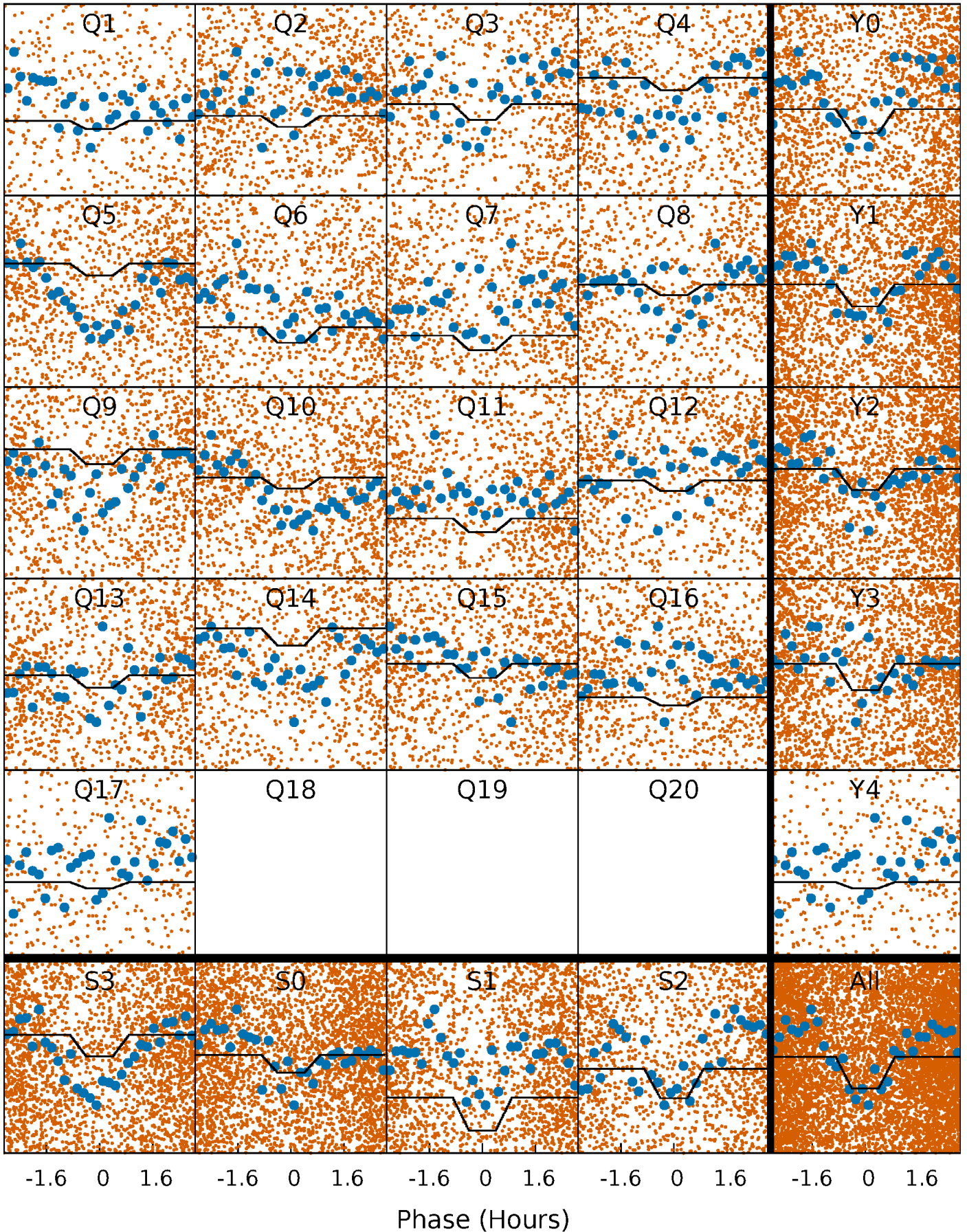
DV Quarter-Phased Transit Curves

TCE 002285586-01 P= 0.521878 Days $T_0=131.543863$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

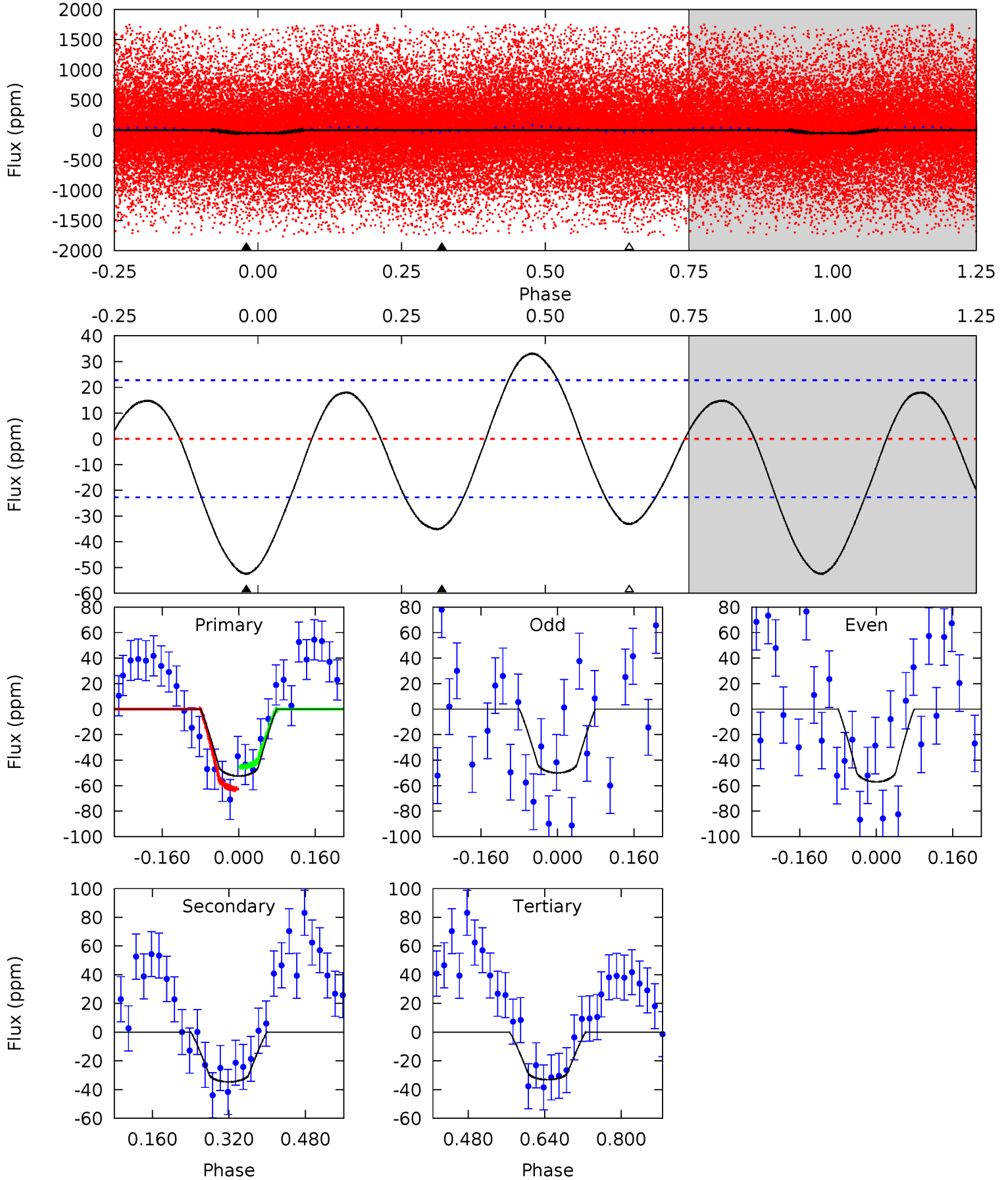
TCE 002285586-01 P= 0.521869 Days $T_0=131.543876$ (BKJD)



DV Model-Shift Uniqueness Test

002285586-01, P = 0.521878 Days, E = 131.021985 Days

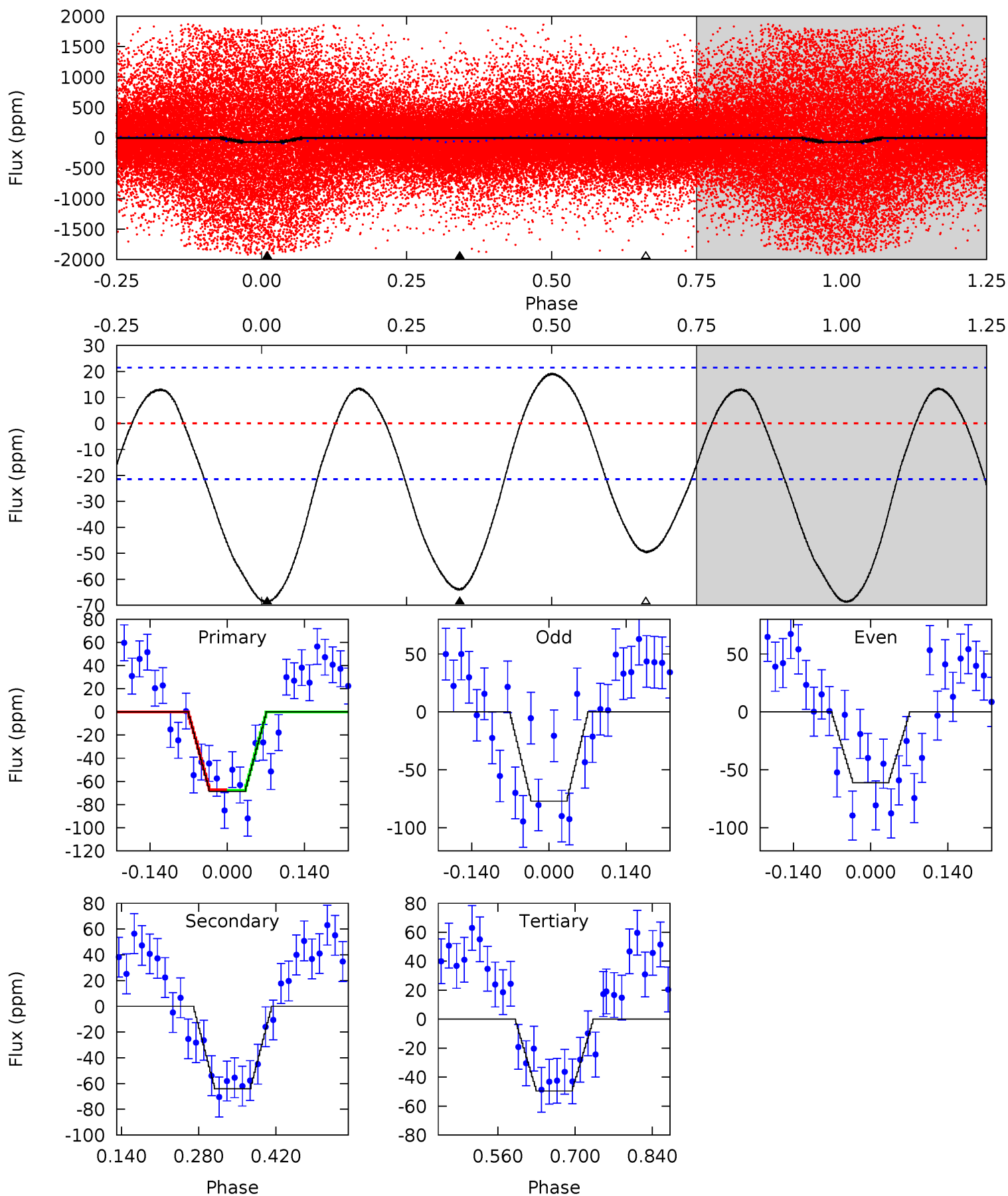
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	6.80	6.49	0	4.47	1.41	4.03	3.80	10.3	0.30	6.80	0.69	0.94	0.39	1.71



Alt Model-Shift Uniqueness Test

002285586-01, P = 0.521869 Days, E = 131.022007 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.4	13.4	10.4	0	4.49	1.48	4.93	4.00	14.4	3.03	13.4	1.66	0.84	0.22	0.07



Stellar Parameters For KIC 002285586

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6859^{+189}_{-307}	$4.178^{+0.112}_{-0.208}$	$0.080^{+0.200}_{-0.350}$	$1.618^{+0.530}_{-0.309}$	$1.440^{+0.218}_{-0.239}$	$0.479^{+0.306}_{-0.250}$
	+3%/-4%	+3%/-5%	+250%/-438%	+33%/-19%	+15%/-17%	+64%/-52%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 002285586-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-35 ± 5	$1.16^{+0.31}_{-0.32}$	4539^{+350}_{-300}	6375^{+1209}_{-818}	$2.977^{+2.444}_{-1.238}$
Alt.	-64 ± 5	$1.35^{+0.34}_{-0.30}$	4518^{+368}_{-294}	6875^{+1074}_{-725}	$3.945^{+2.381}_{-1.458}$

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 $A_{obs} \gg 1.0$

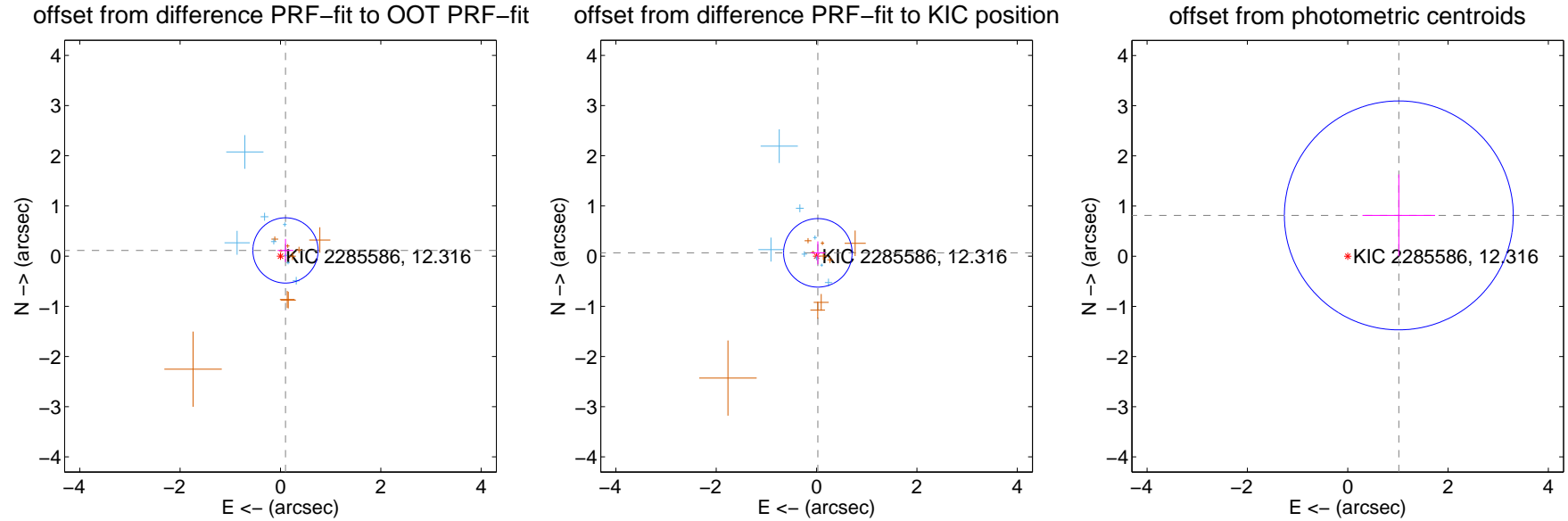
DV Centroid Data

Supplemental centroid analysis for 002285586-01. Kepler magnitude: 12.32. Transit SNR 7.69

There are 8 quarters with good PRF difference image offsets

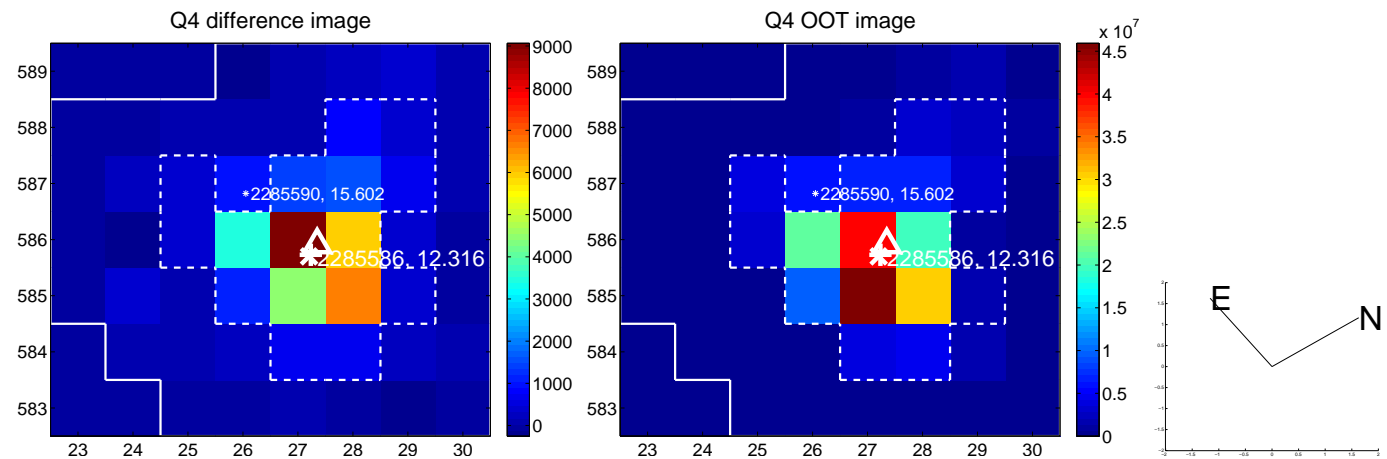
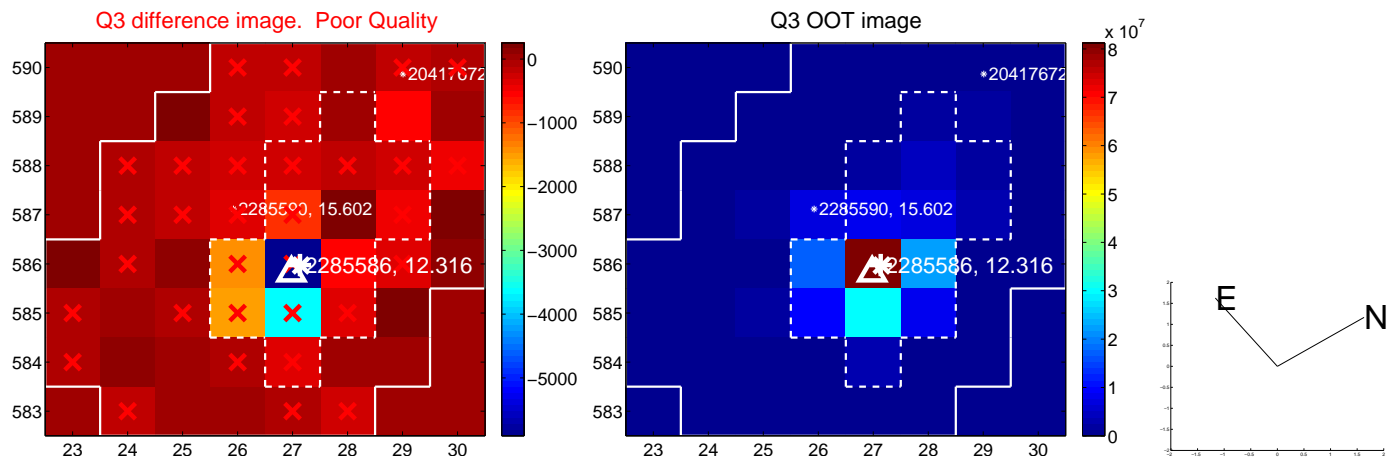
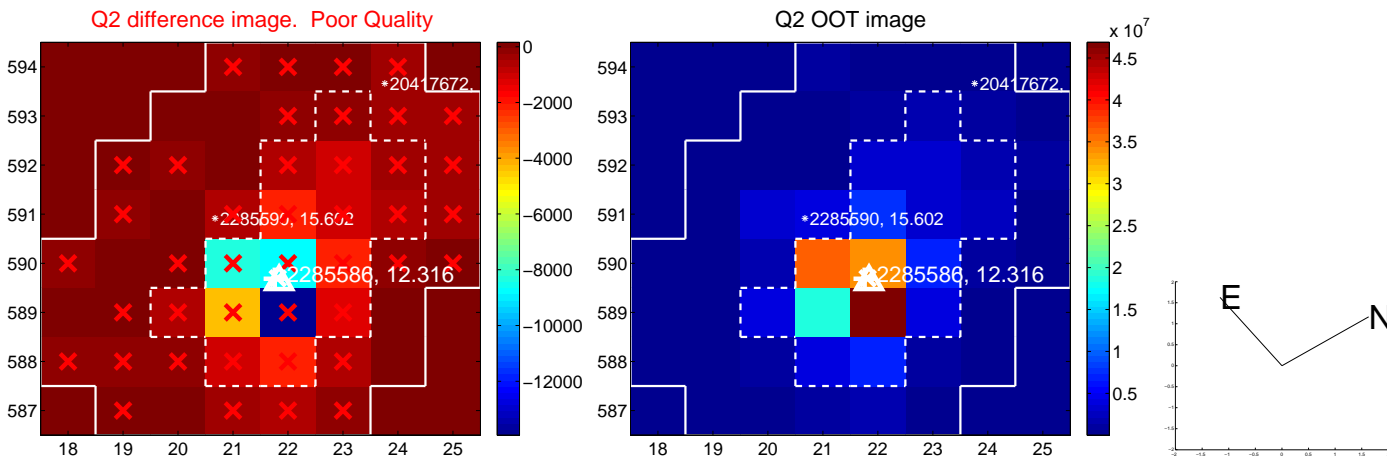
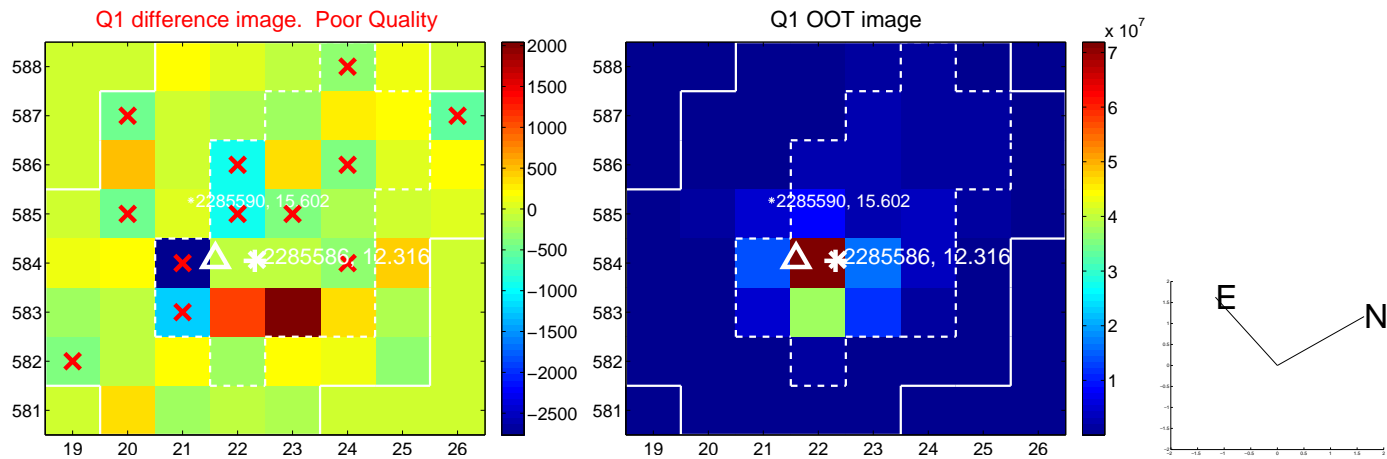
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.152 ± 0.217	0.70	-0.100 ± 0.157	0.114 ± 0.229
PRF-fit source offset from KIC position	0.070 ± 0.228	0.31	-0.026 ± 0.144	0.065 ± 0.228
photometric centroid source offset	1.30 ± 0.76	1.71	-1.02 ± 0.72	0.81 ± 0.81

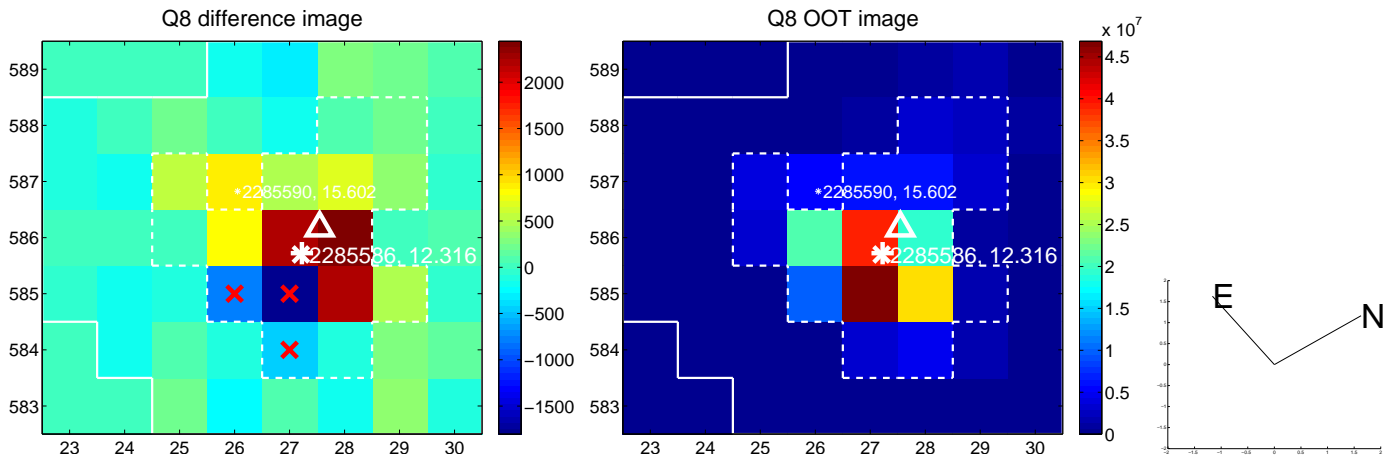
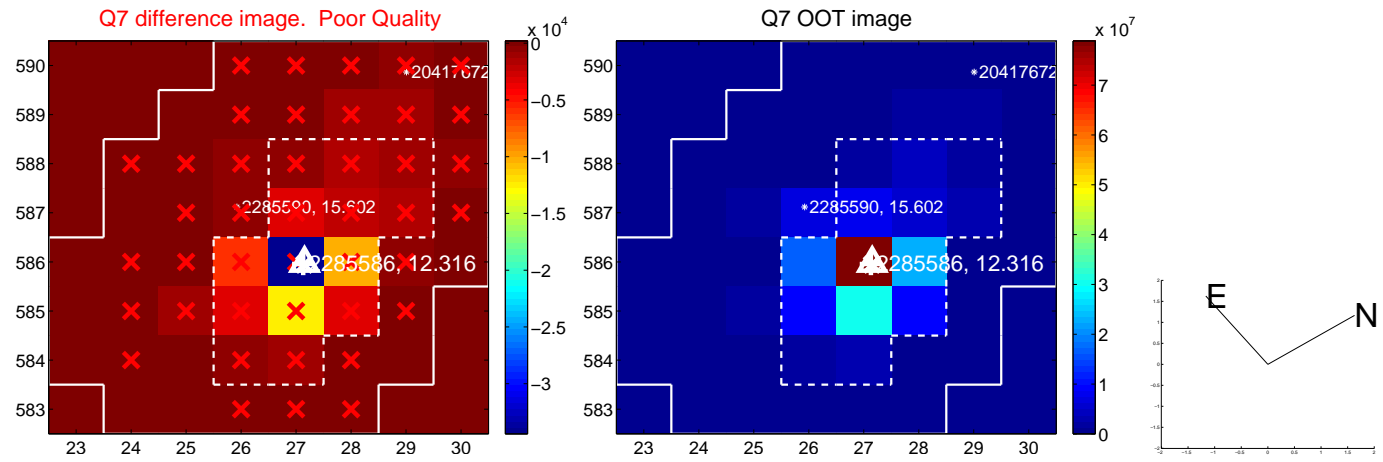
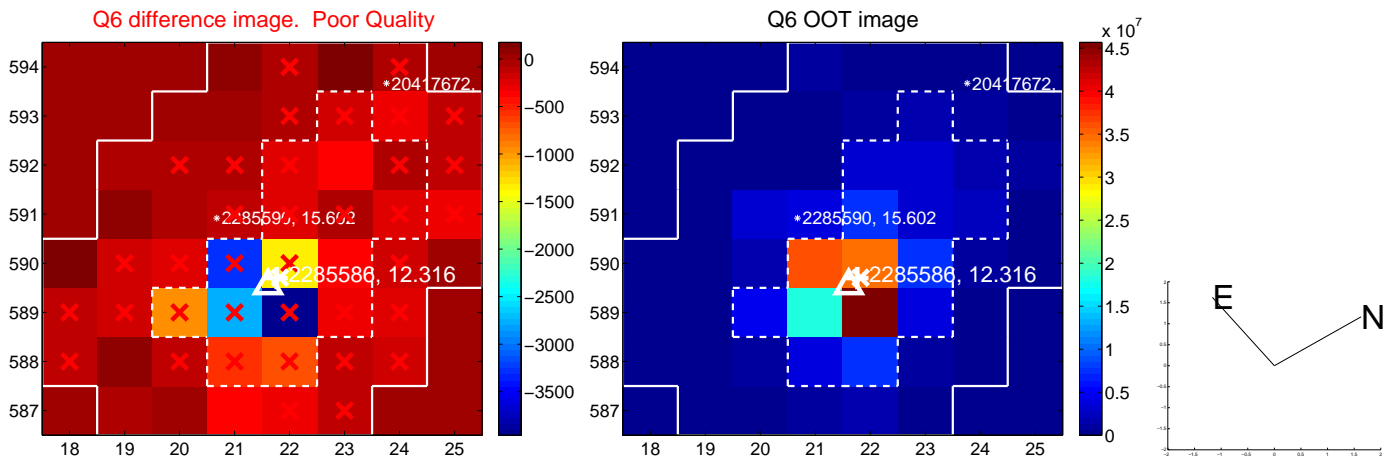
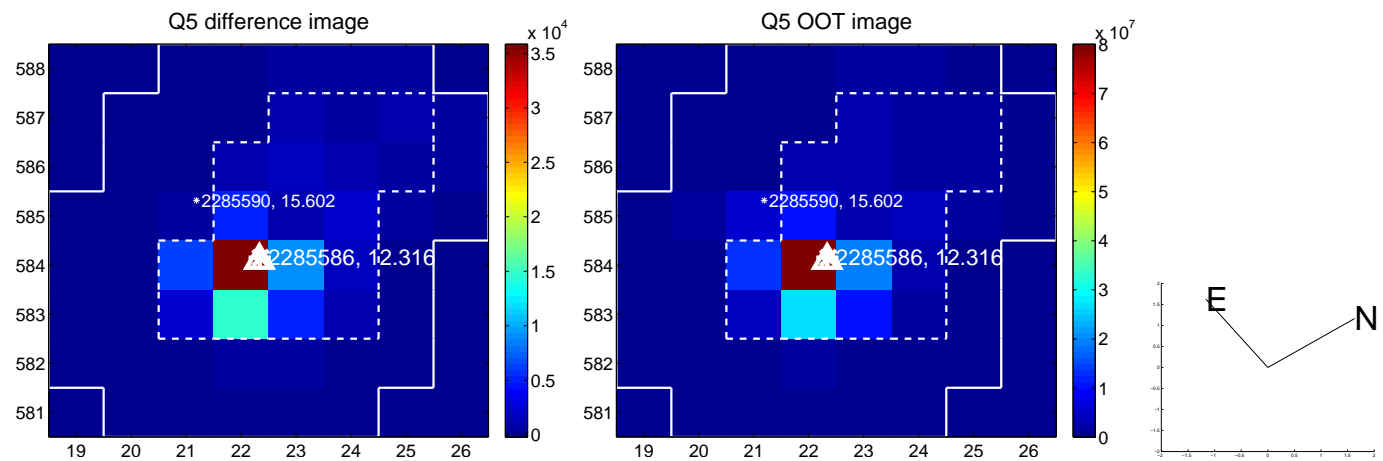


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

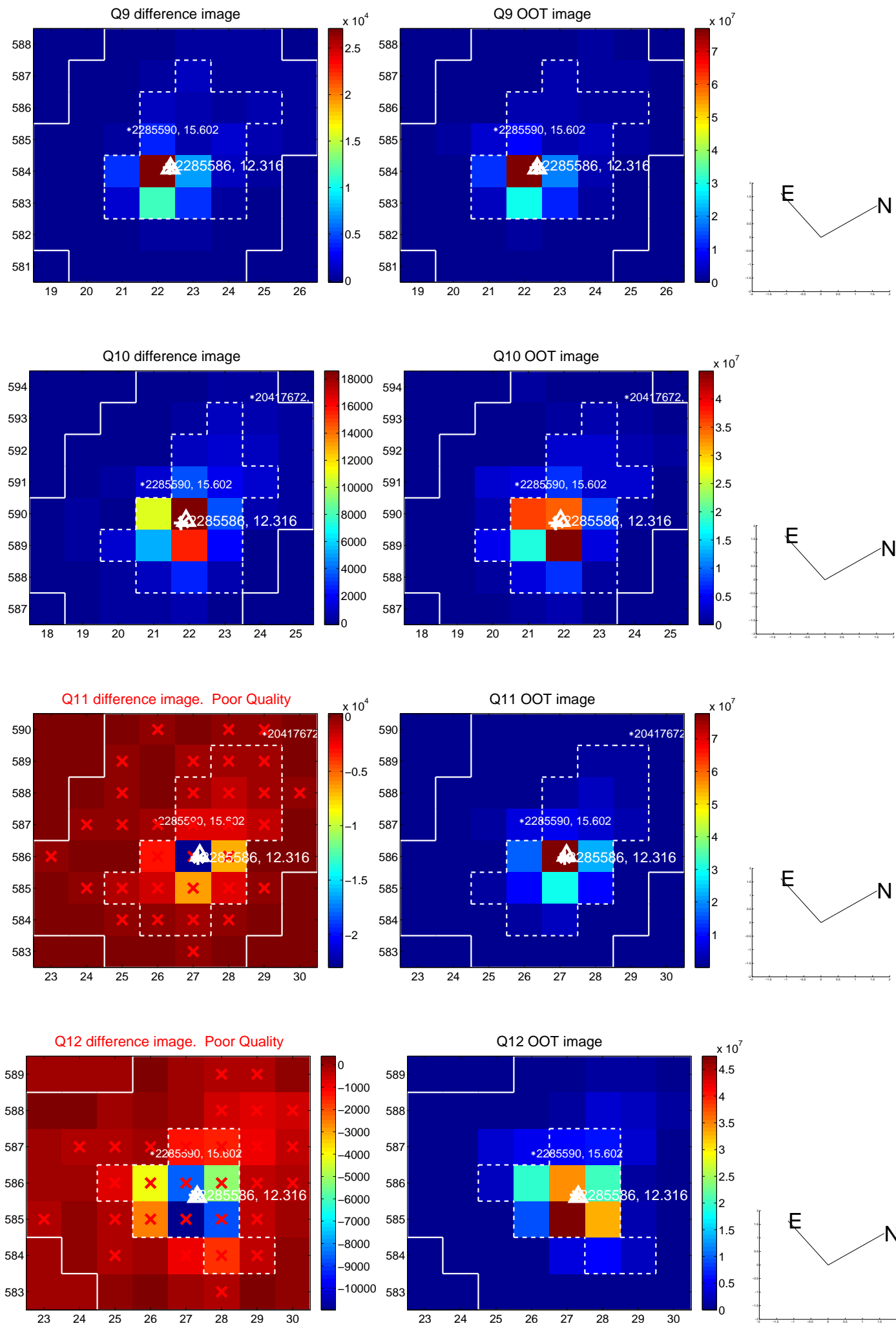
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



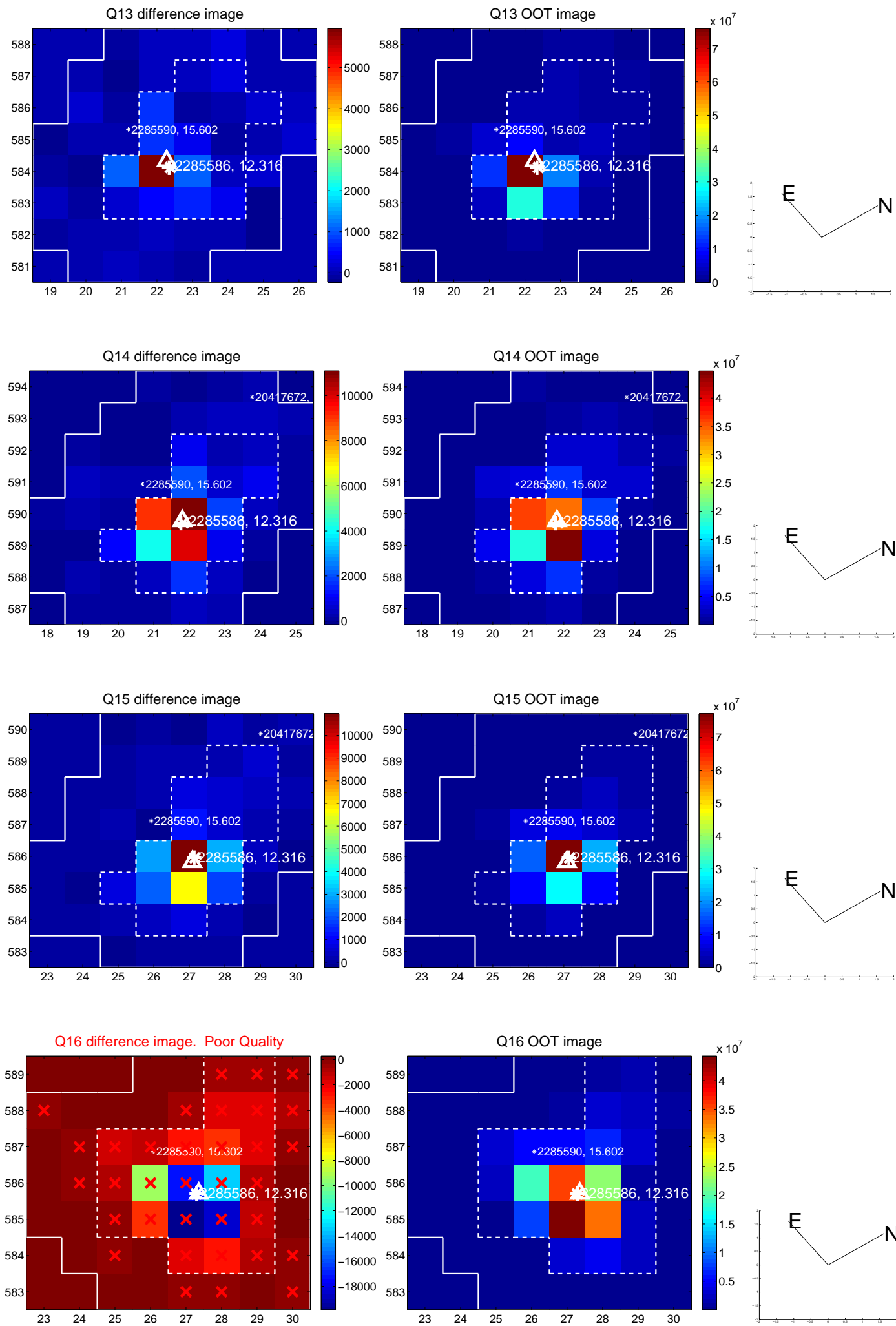
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



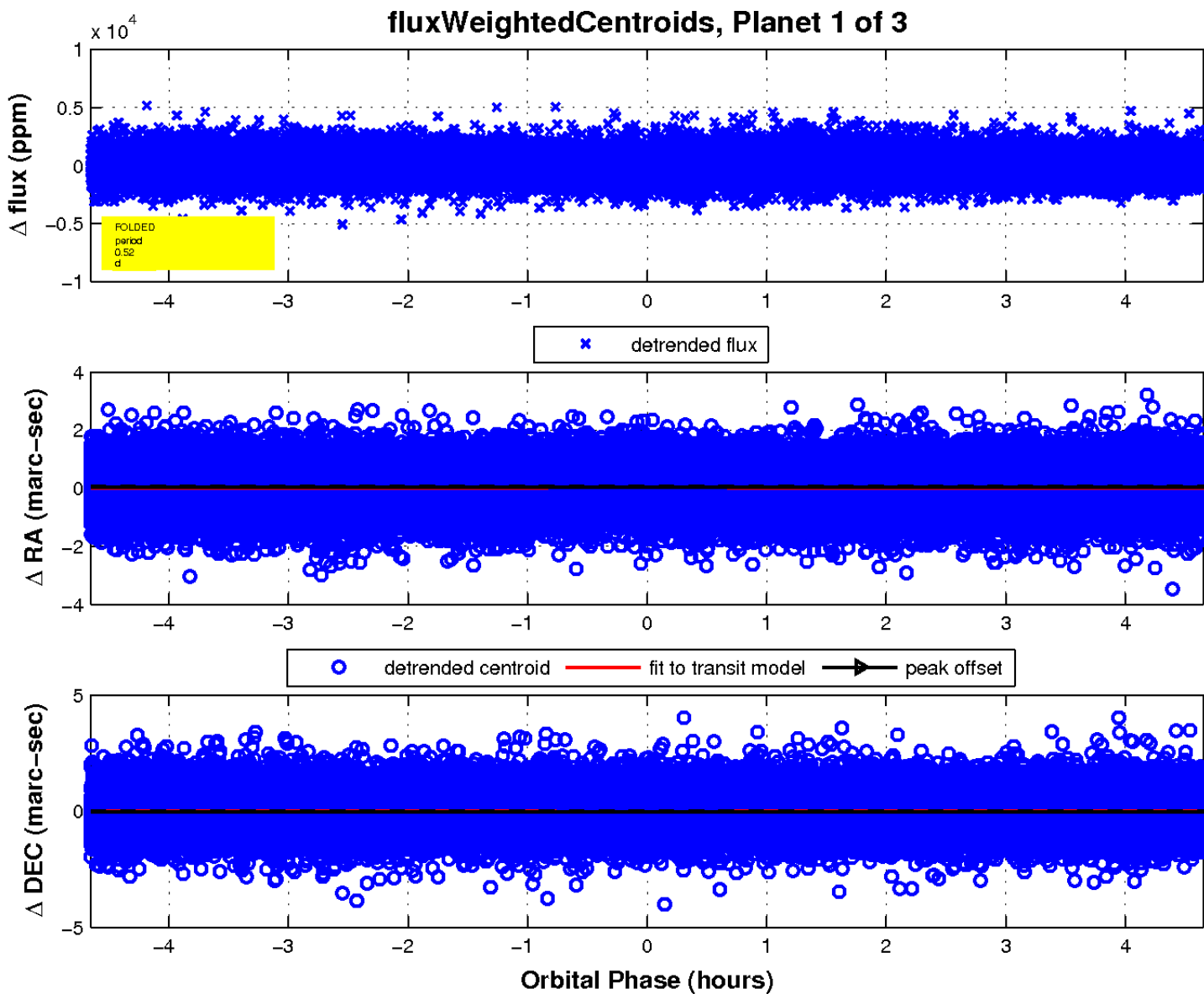
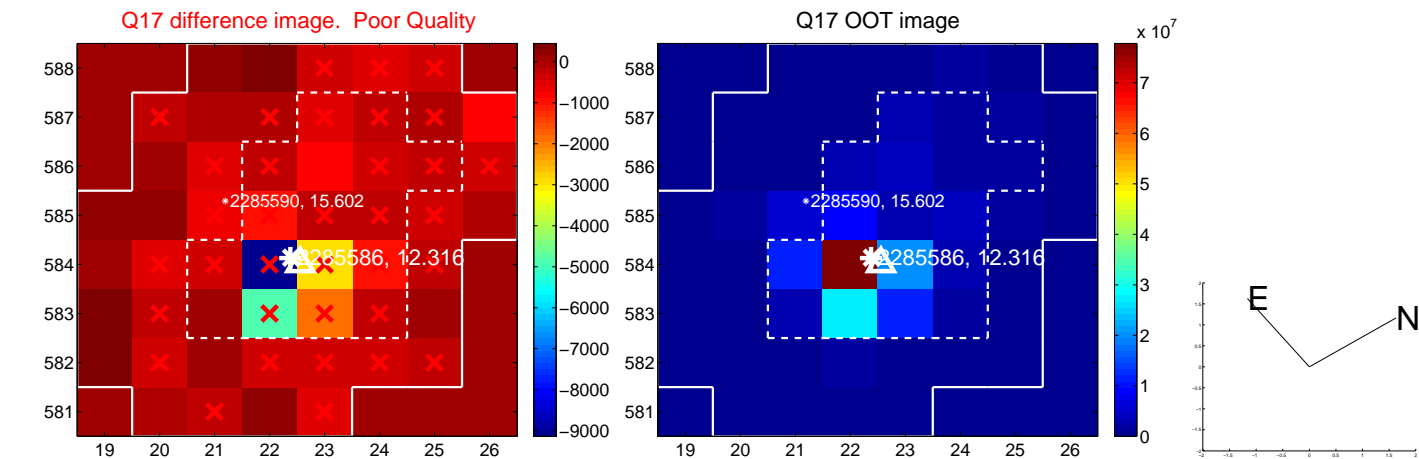
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



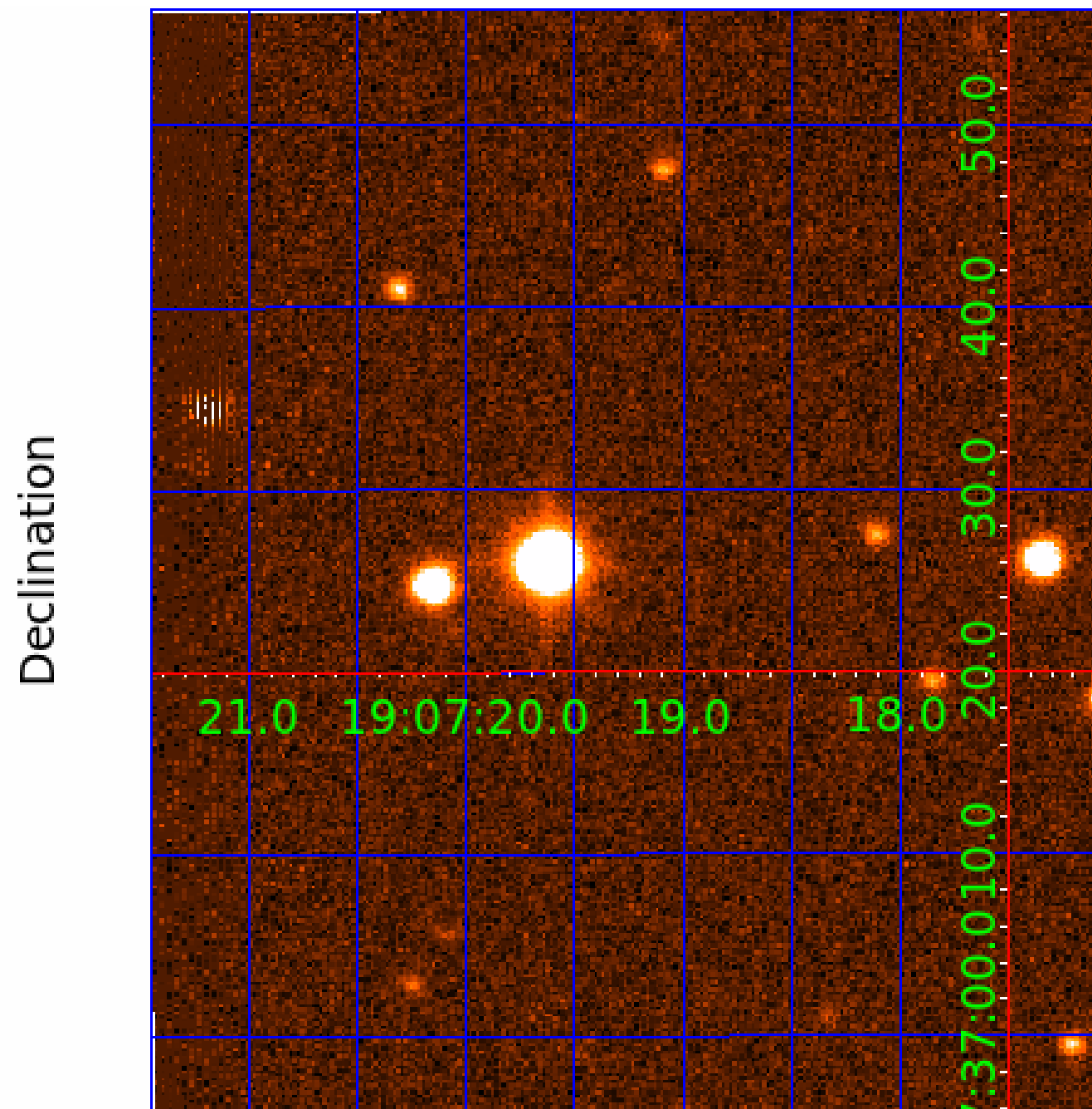
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 002285586

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})
002285586-01	OBS	No	0.521878	131.543863	34.3	1.552	9.1	7.7	1.62	6859	1.10	25302.57
002285586-02	OBS	No	0.522039	131.853463	58.9	1.971	9.0	6.7	1.62	6859	1.45	25292.14
002285586-03	OBS	No	28.487127	145.268947	1073.3	5.059	8.3	7.6	1.62	6859	9.94	122.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002285586-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
002285586-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SAME_NTL_PERIOD
002285586-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT

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

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

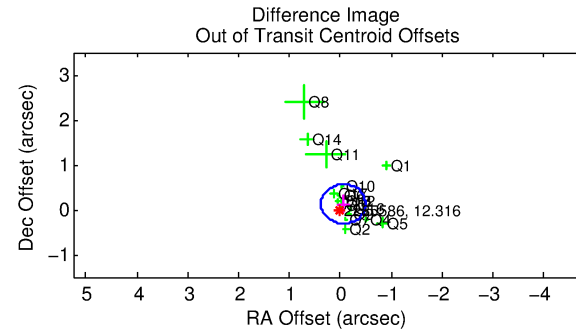
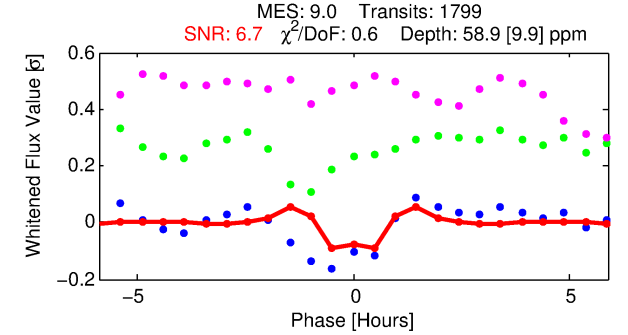
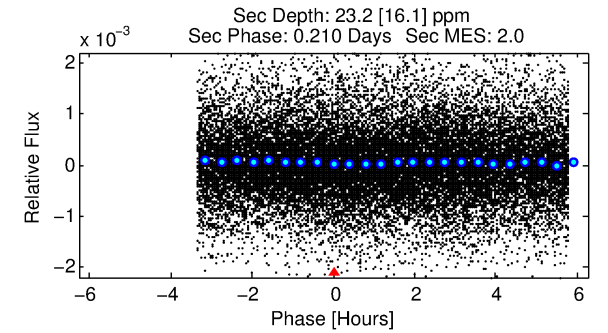
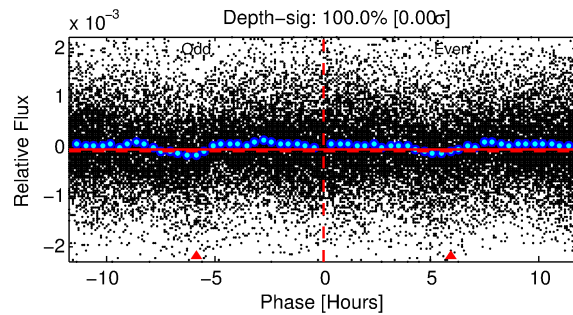
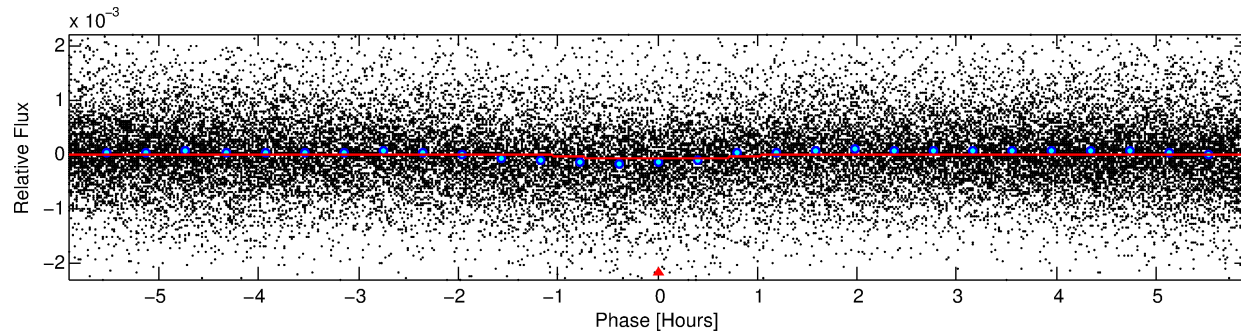
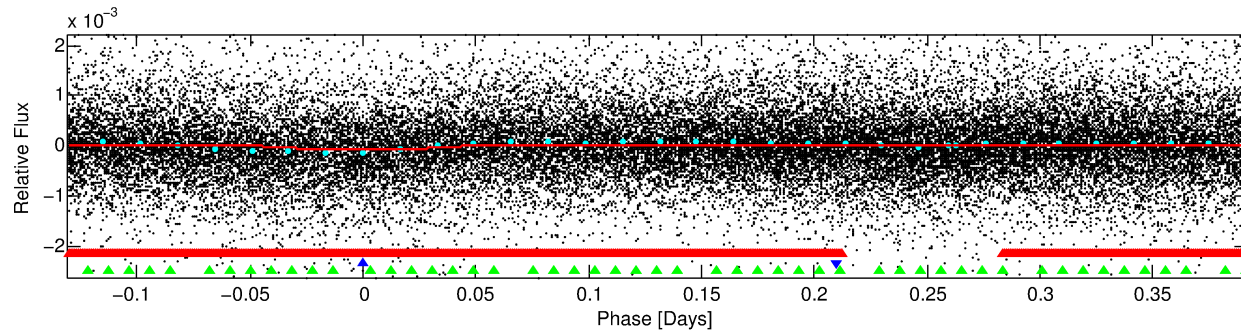
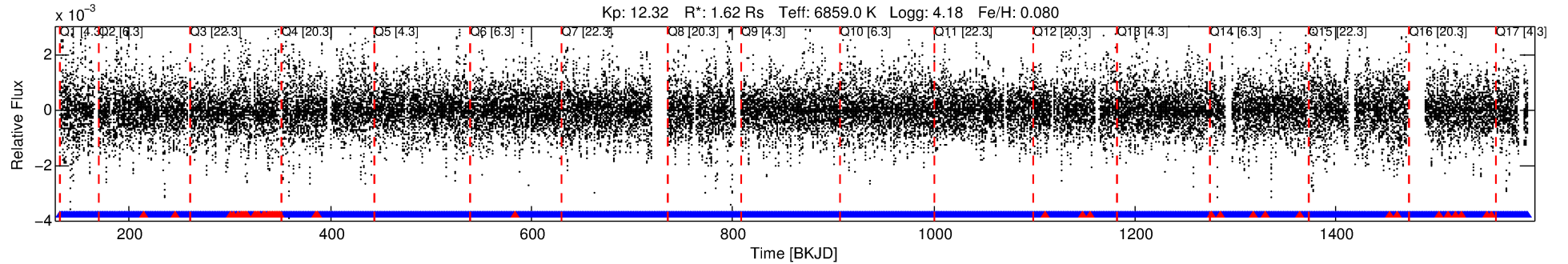
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 002285586-02

No Significant Match Found

DV One-Page Summary

KIC: 2285586 Candidate: 2 of 3 Period: 0.522 d



DV Fit Results:

Period = 0.52204 [0.00001] d
Epoch = 131.8535 [0.0017] BKJD
Rp/R* = 0.0082 [0.0026]
a/R* = 1.31 [0.99]
b = 0.90 [0.38]
Seff = 25292.14 [10780.78]
Teq = 3216 [343] K
Rp = 1.45 [0.66] Re
a = 0.0143 [0.0039] AU
Ag = 1.25 [1.27] [0.20σ]
Teffp = 5258 [1252] K [1.57σ]

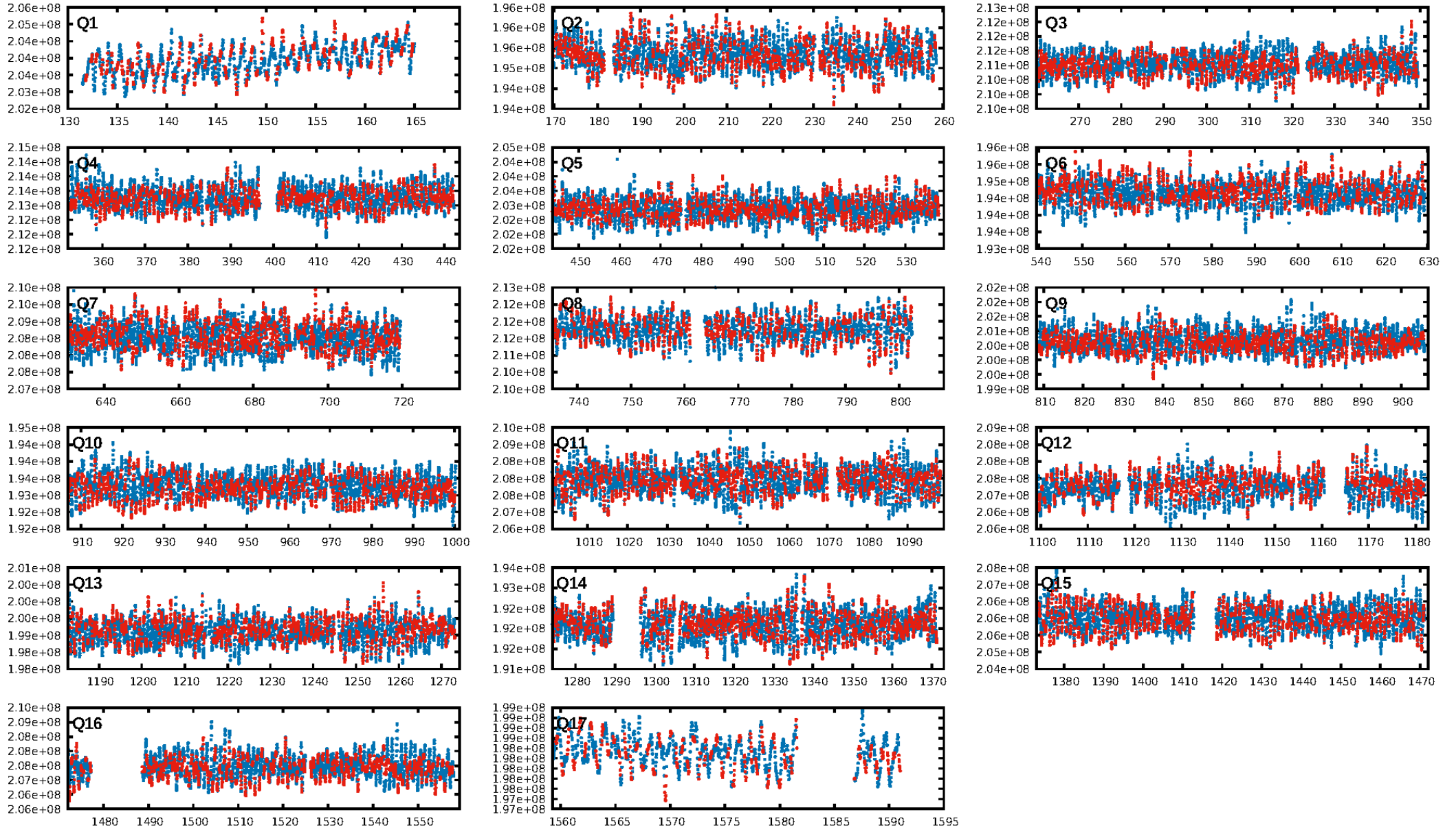
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: 100.0% [123.62σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.06e-18
RollingBand-fgt: 0.96 [1624/1684]
GhostDiagnostic-chr: 2.799
Centroid-sig: 26.3%
Centroid-so: 0.168 arcsec [0.40σ]
OotOffset-rm: 0.137 arcsec [0.94σ]
KicOffset-rm: 0.087 arcsec [0.46σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 0.00 [0/17]

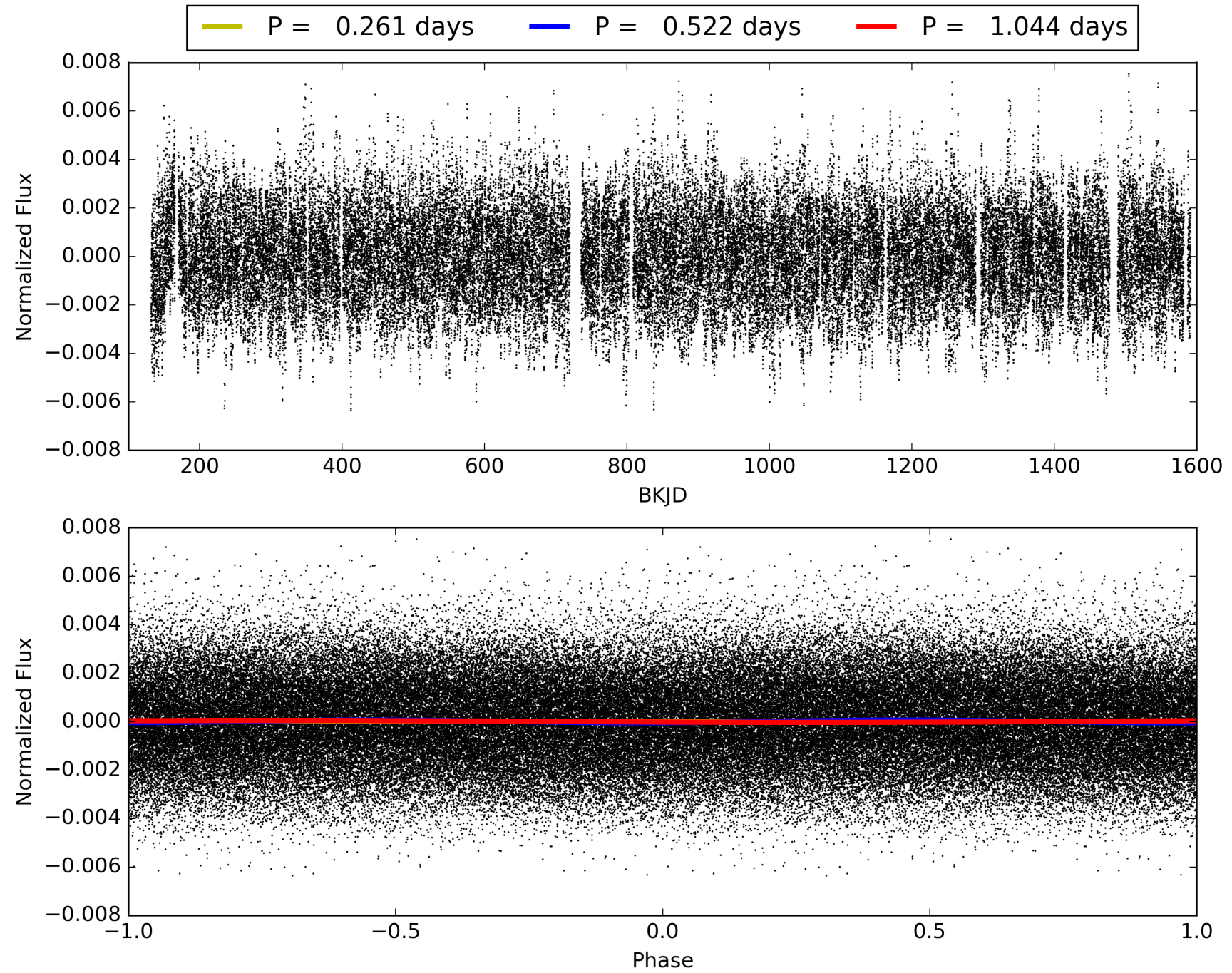
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 14:36:30 Z

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

TCE 002285586-02, PDC Light Curves

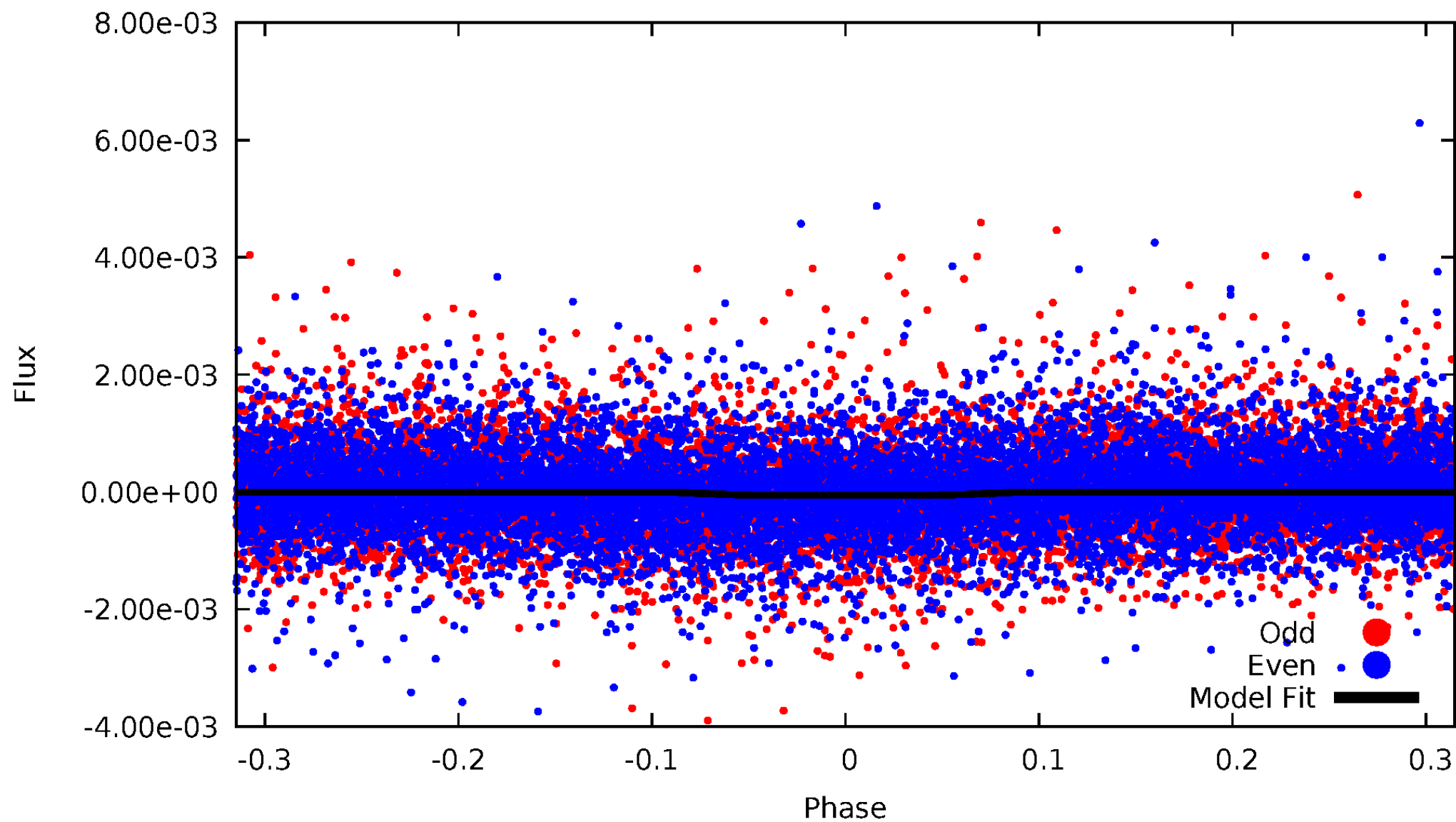


TCE 002285586-02



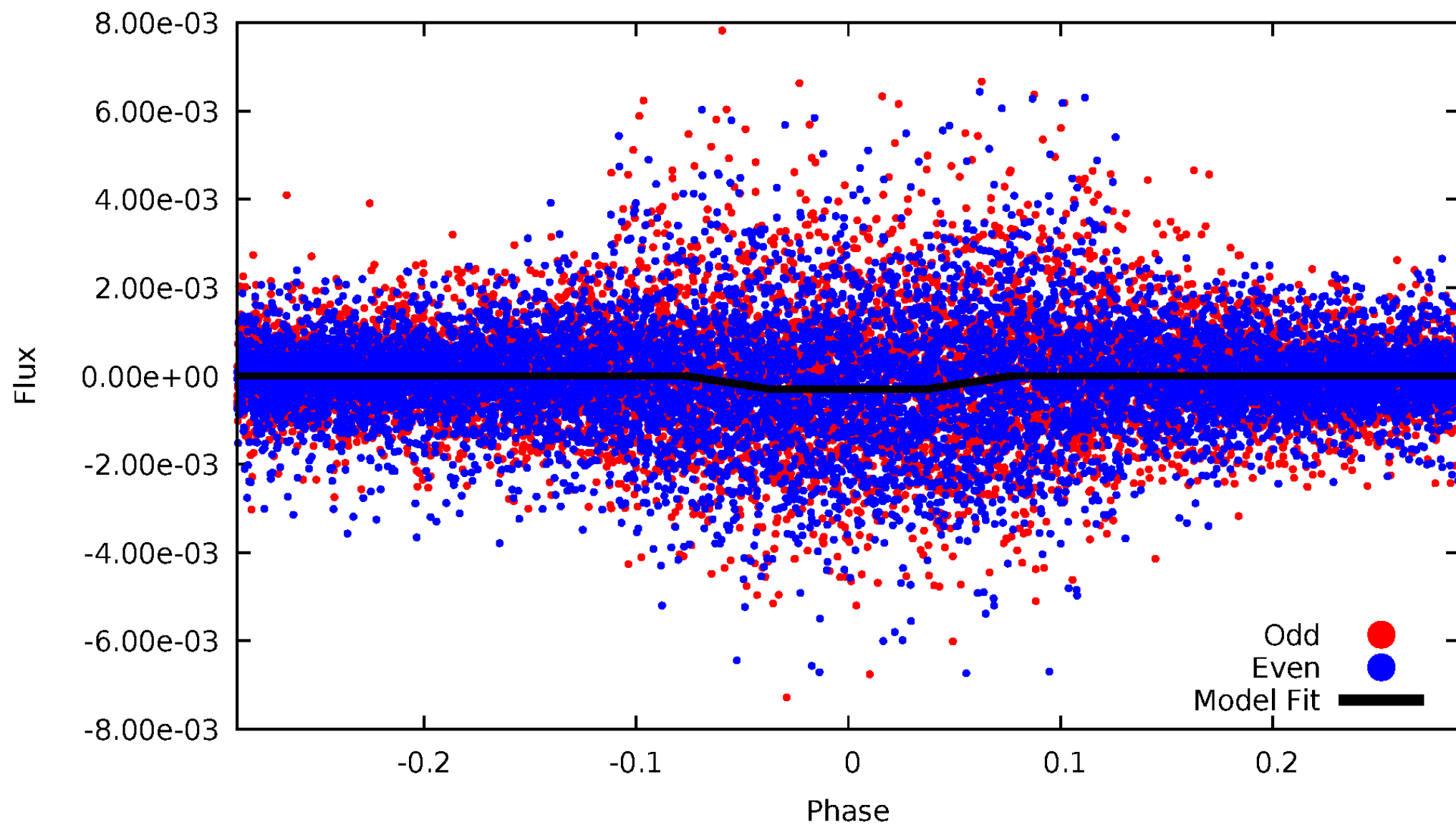
DV Odd/Even

TCE 002285586-02



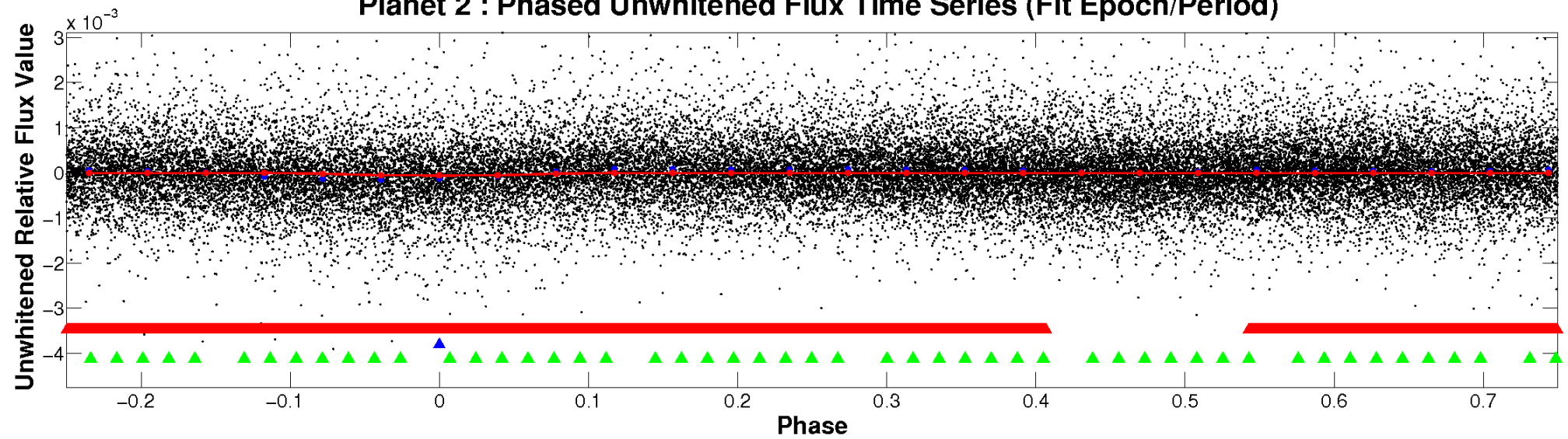
ALT Odd/Even

TCE 002285586-02

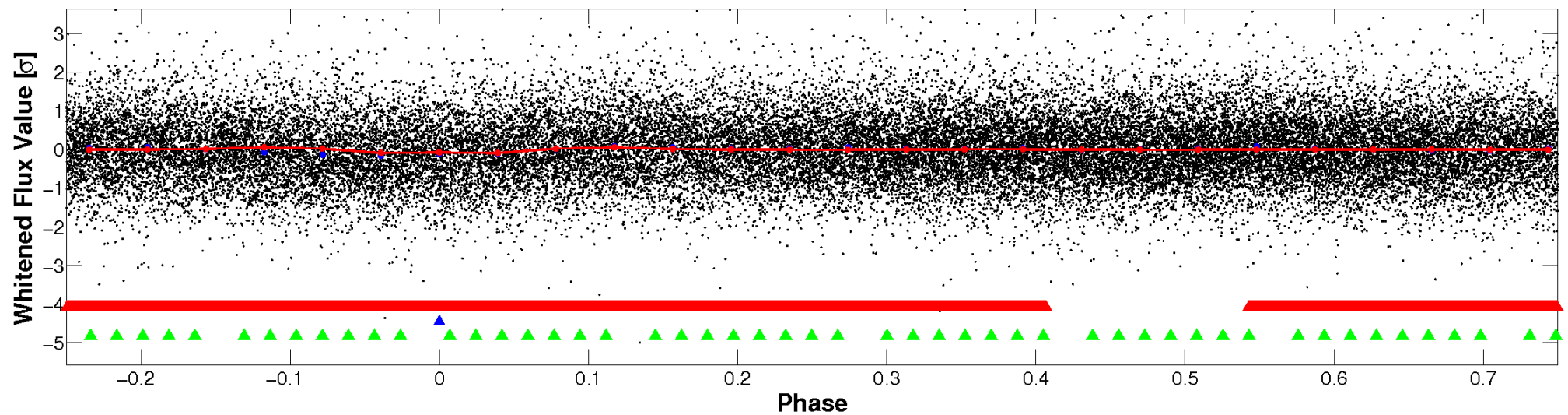


Non-Whitened Vs. Whitened Light Curve

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

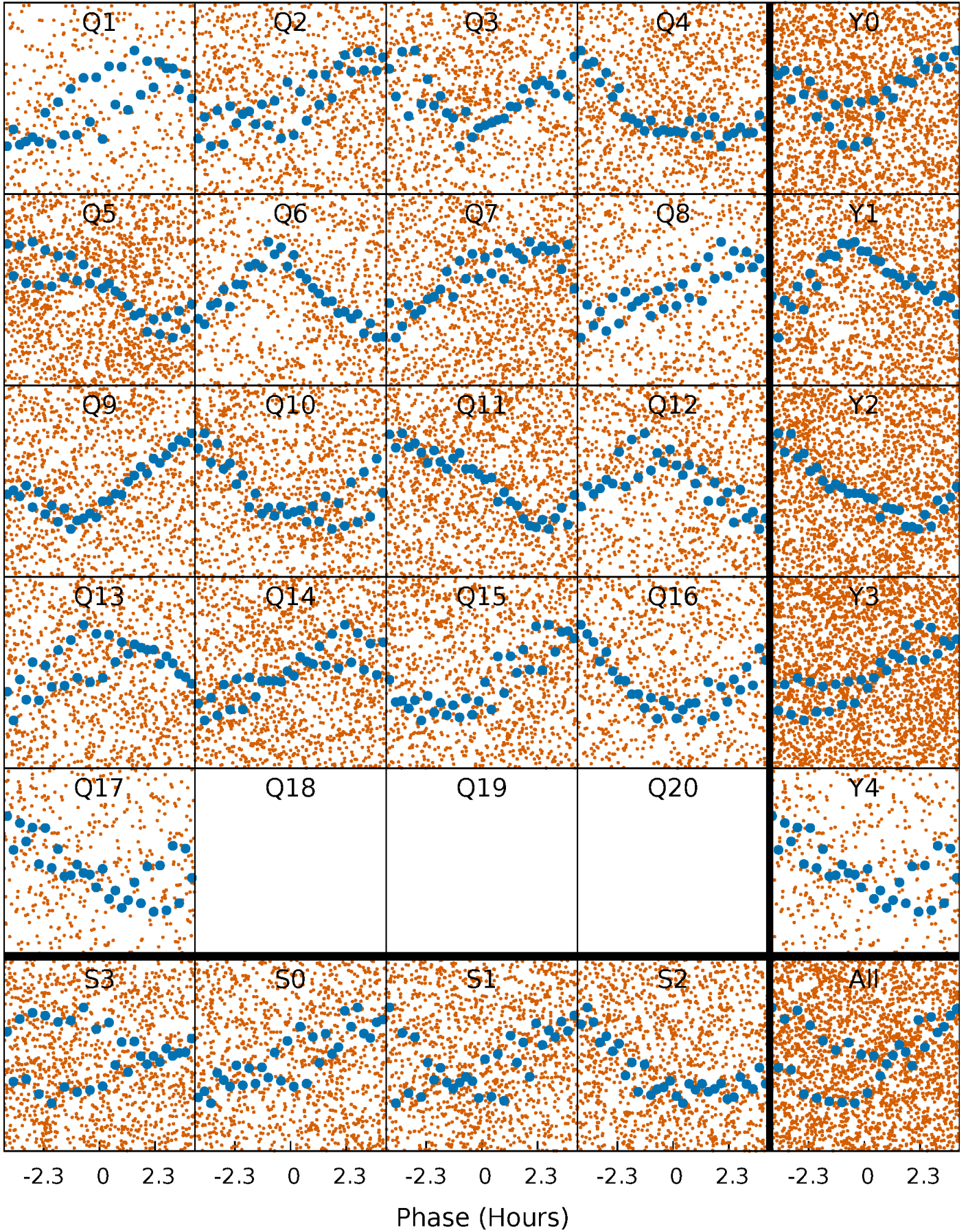


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



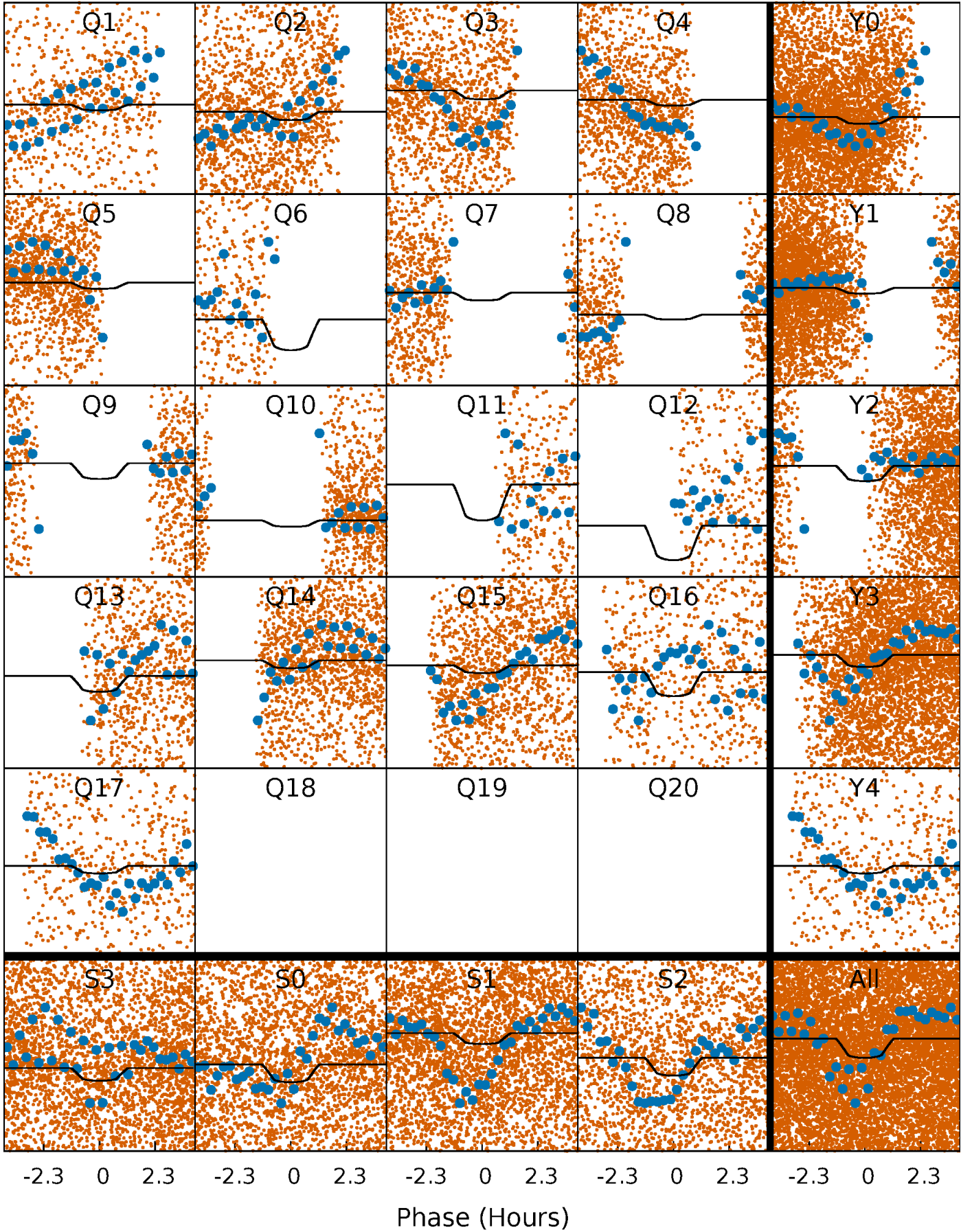
PDC Quarter-Phased Transit Curves

TCE 002285586-02 P= 0.522039 Days $T_0=131.853463$ (BKJD)



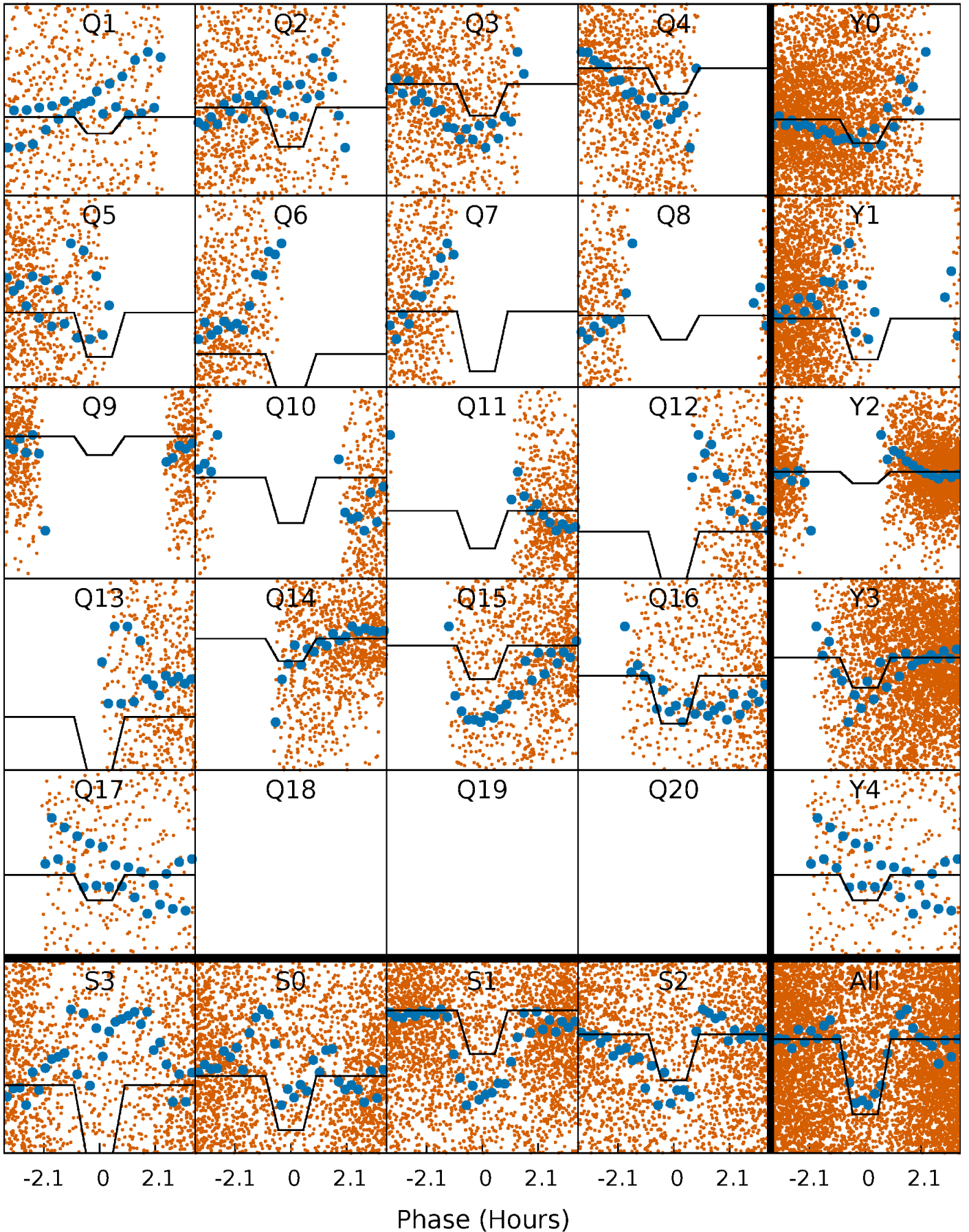
DV Quarter-Phased Transit Curves

TCE 002285586-02 P= 0.522039 Days $T_0=131.853463$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

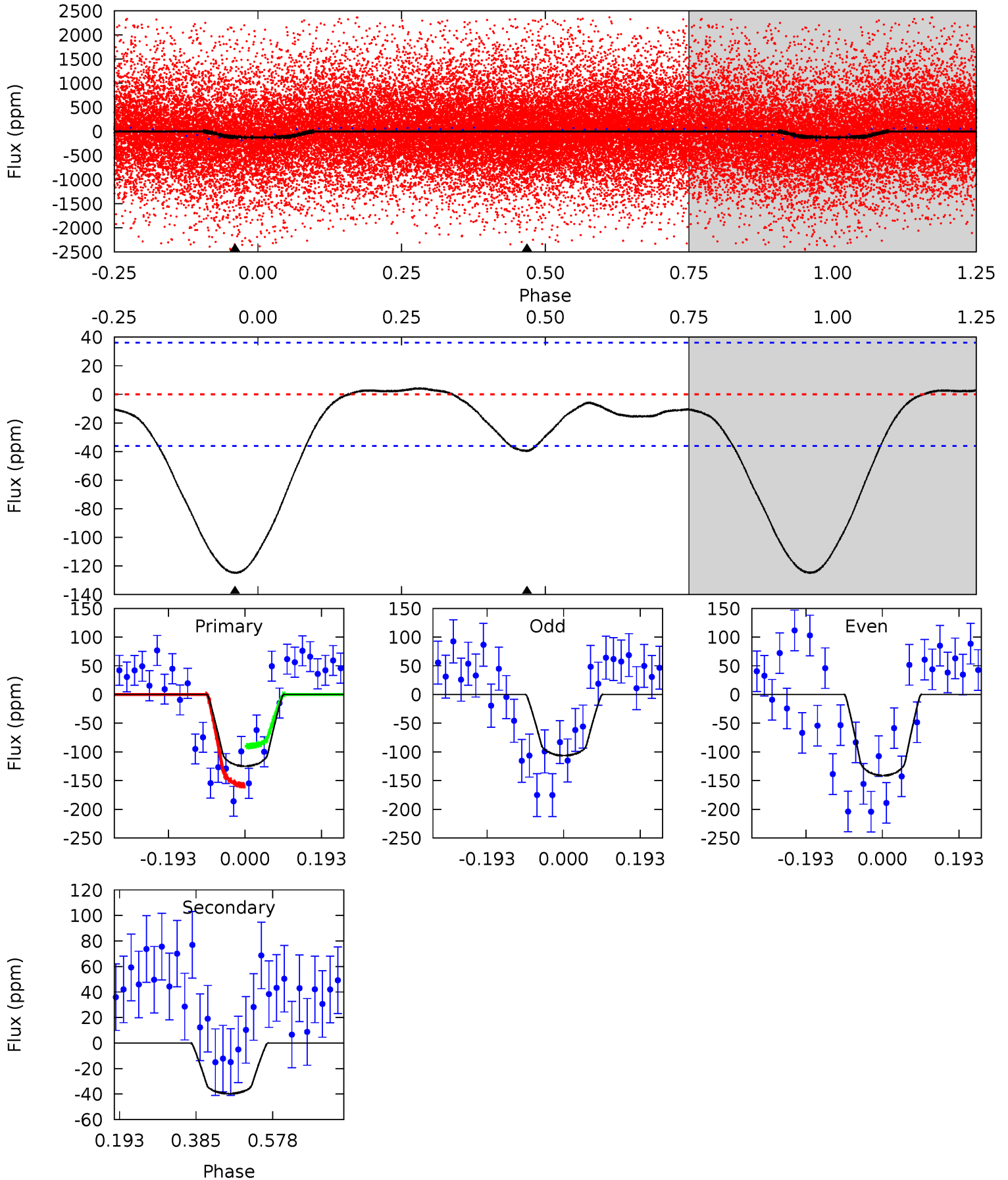
TCE 002285586-02 P= 0.522024 Days $T_0=131.856703$ (BKJD)



DV Model-Shift Uniqueness Test

002285586-02, P = 0.522039 Days, E = 131.331424 Days

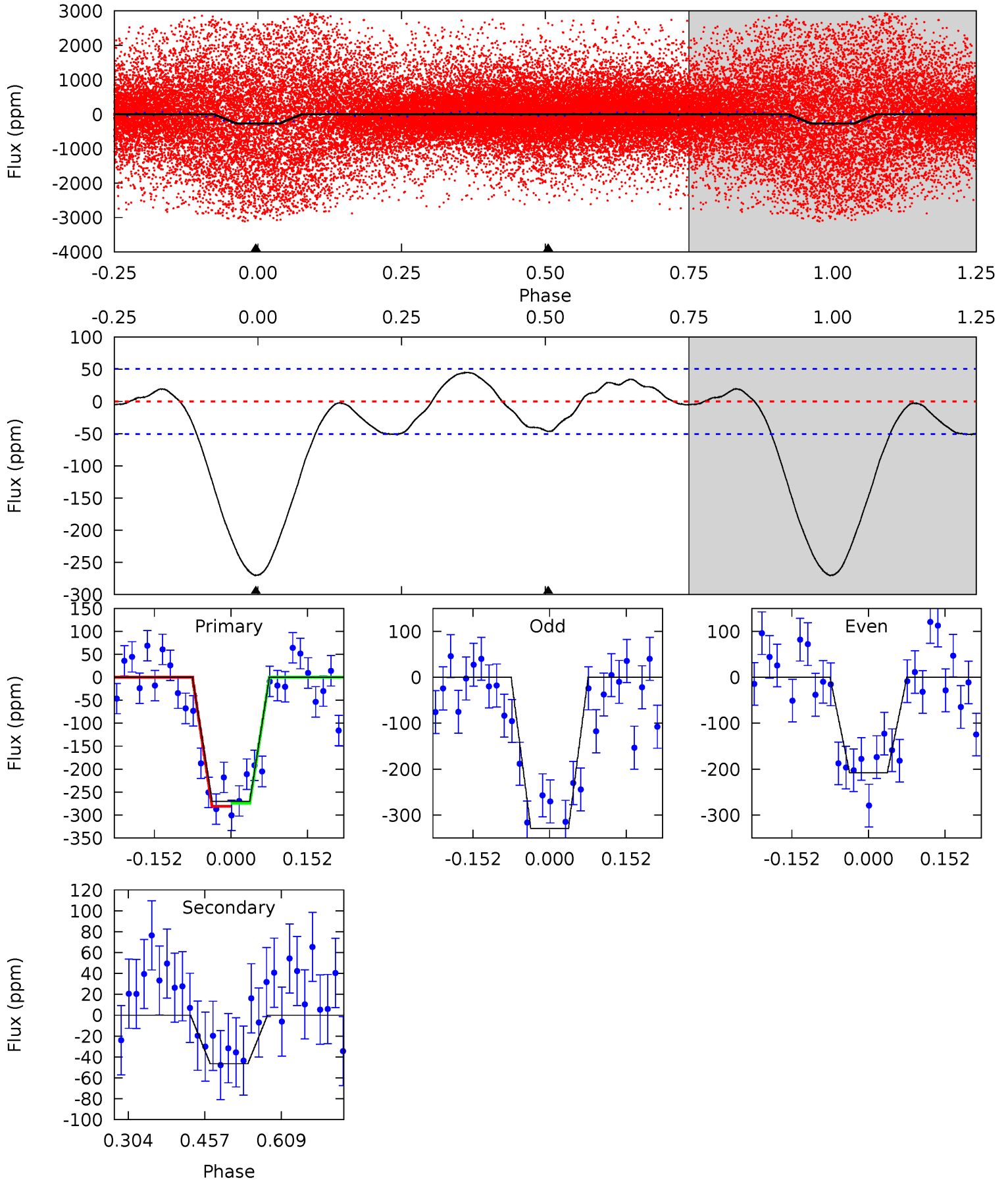
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.3	4.86	0	0	4.43	1.30	0.95	15.3	15.3	4.86	4.86	2.14	1.00	0.03	0



Alt Model-Shift Uniqueness Test

002285586-02, P = 0.522024 Days, E = 131.334679 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.9	4.10	0	0	4.48	1.43	2.31	23.9	23.9	4.10	4.10	5.33	1.11	0.14	0



Stellar Parameters For KIC 002285586

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6859^{+189}_{-307}	$4.178^{+0.112}_{-0.208}$	$0.080^{+0.200}_{-0.350}$	$1.618^{+0.530}_{-0.309}$	$1.440^{+0.218}_{-0.239}$	$0.479^{+0.306}_{-0.250}$
	+3%/-4%	+3%/-5%	+250%/-438%	+33%/-19%	+15%/-17%	+64%/-52%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 002285586-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-40 ± 8	$1.49^{+0.55}_{-0.50}$	4523^{+388}_{-294}	5680^{+1514}_{-896}	$1.949^{+2.532}_{-0.935}$
Alt.	-47 ± 11	$3.09^{+0.69}_{-0.58}$	4542^{+365}_{-302}	3807^{+582}_{-961}	$0.531^{+0.293}_{-0.199}$

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 $A_{obs} \gg 1.0$

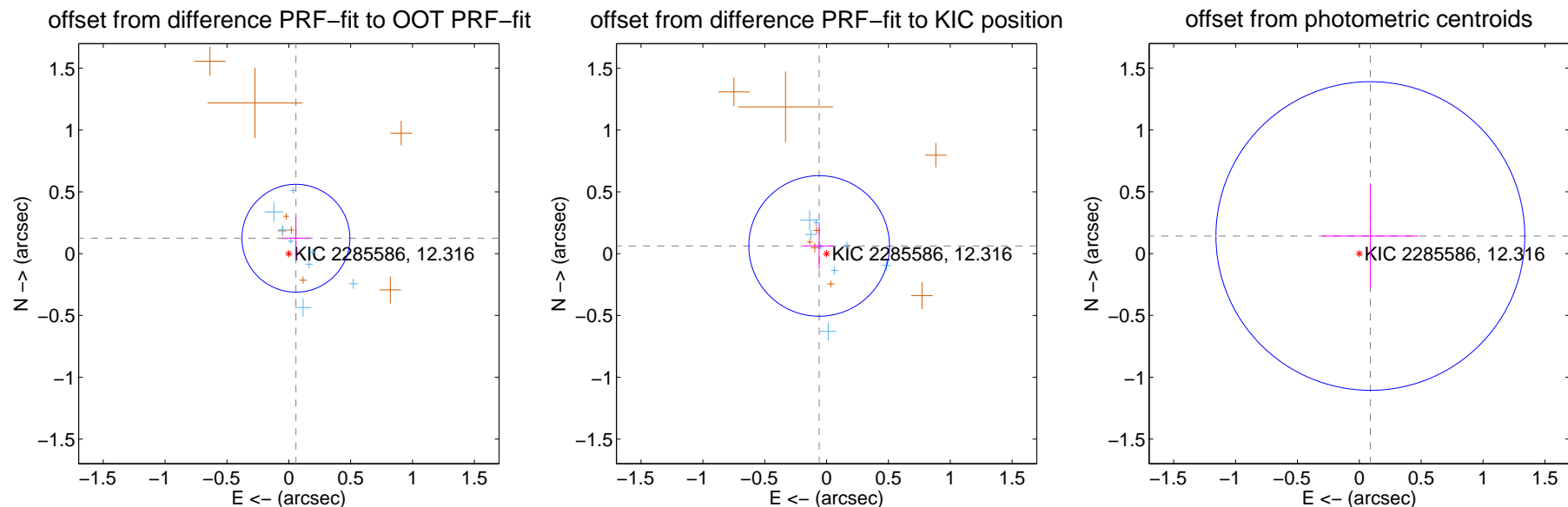
DV Centroid Data

Supplemental centroid analysis for 002285586-02. Kepler magnitude: 12.32. Transit SNR 6.66

There are 9 quarters with good PRF difference image offsets

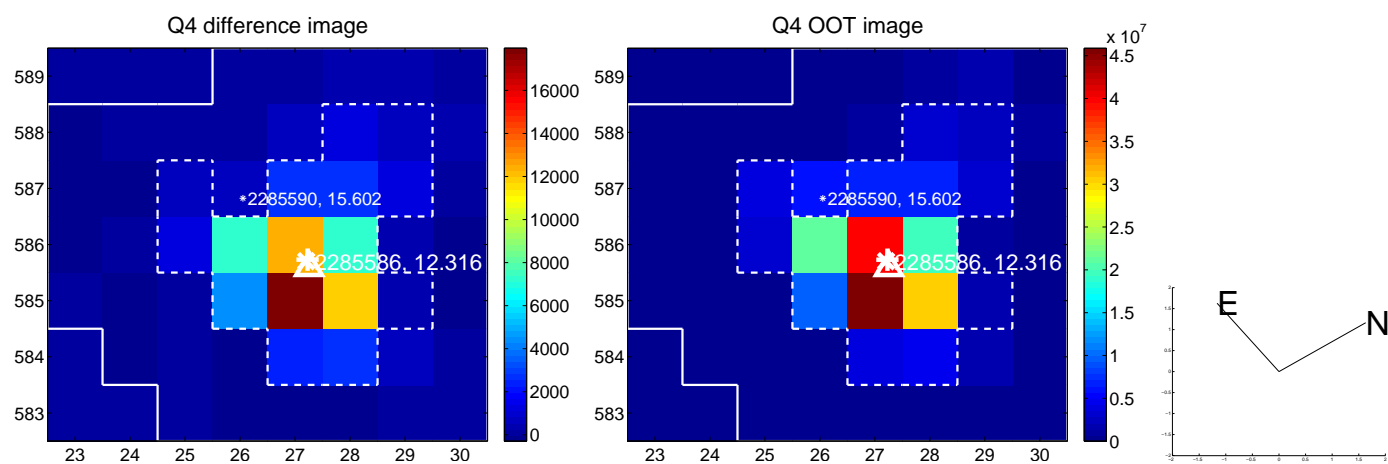
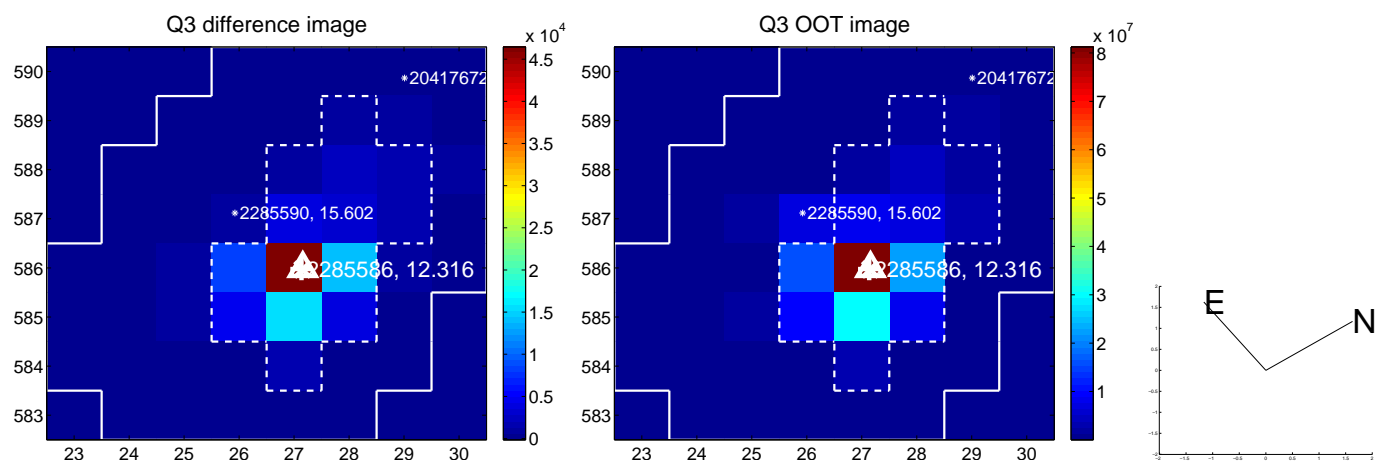
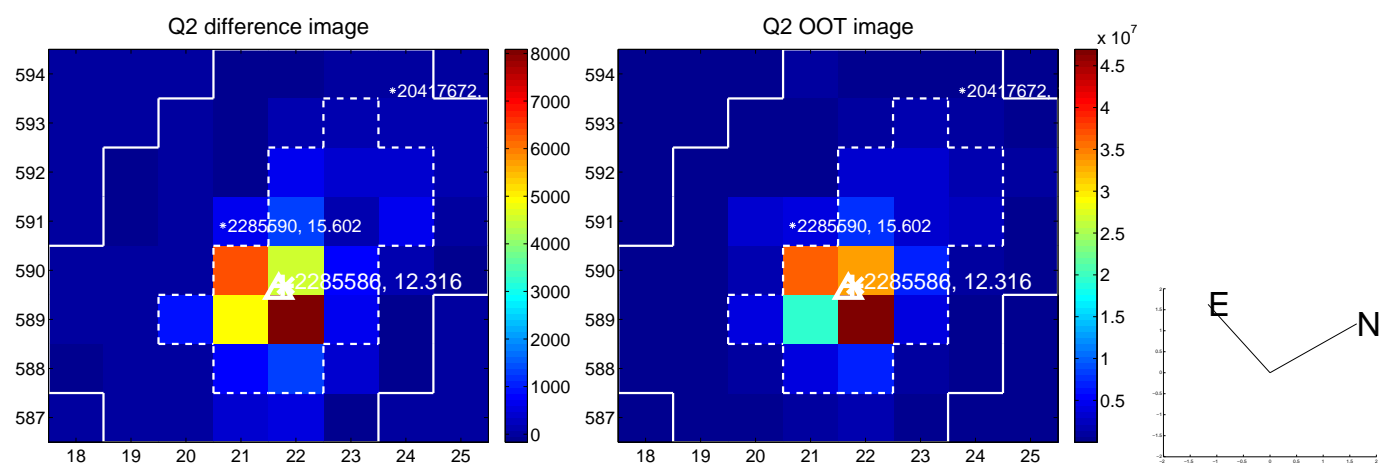
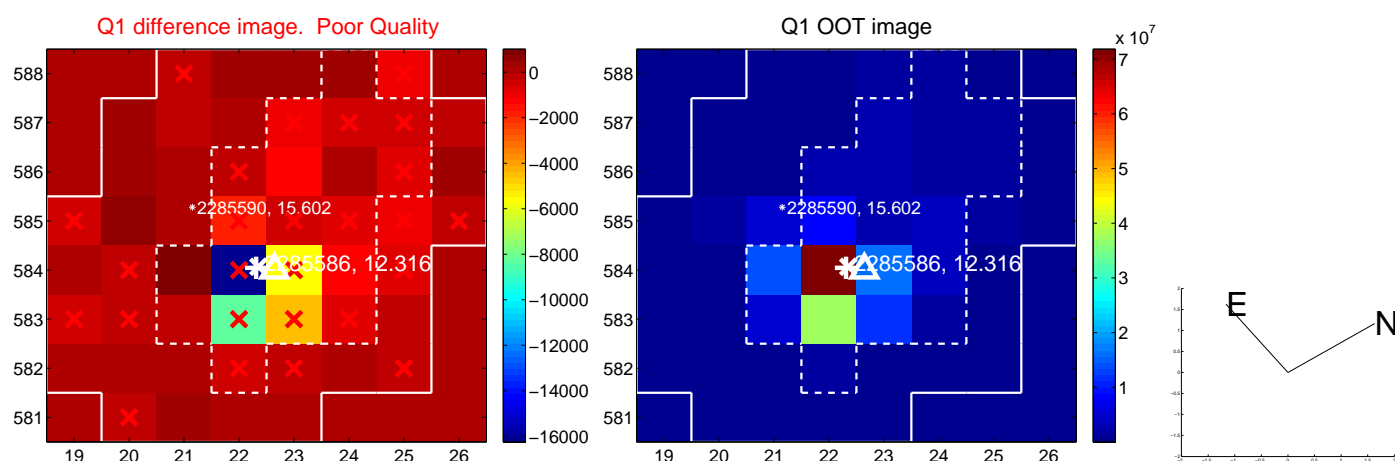
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.137 ± 0.145	0.94	-0.057 ± 0.115	0.125 ± 0.173
PRF-fit source offset from KIC position	0.087 ± 0.190	0.46	0.060 ± 0.120	0.062 ± 0.189
photometric centroid source offset	0.17 ± 0.42	0.40	-0.09 ± 0.39	0.14 ± 0.43

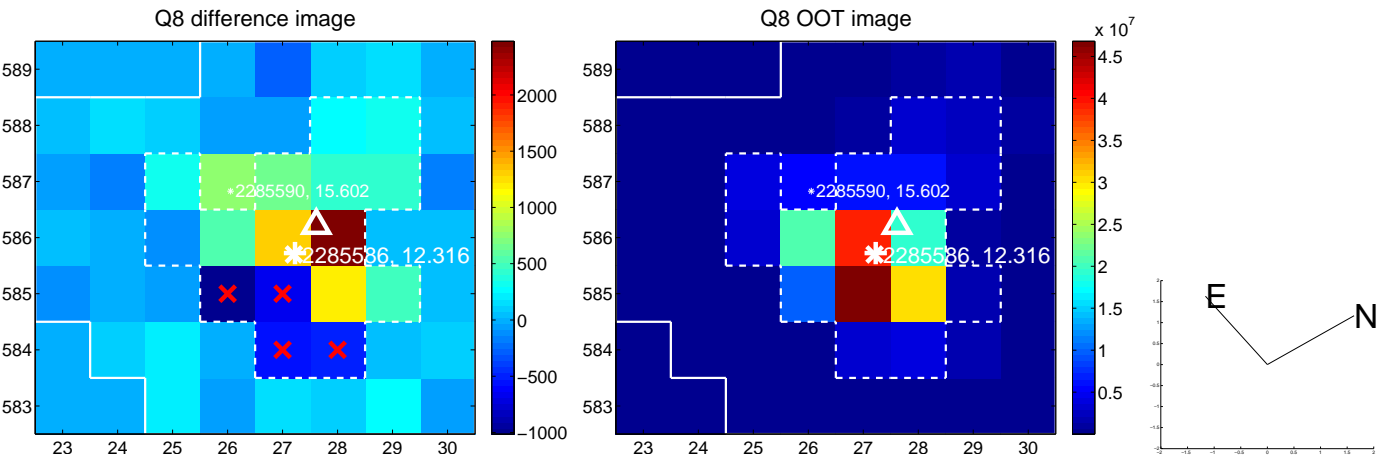
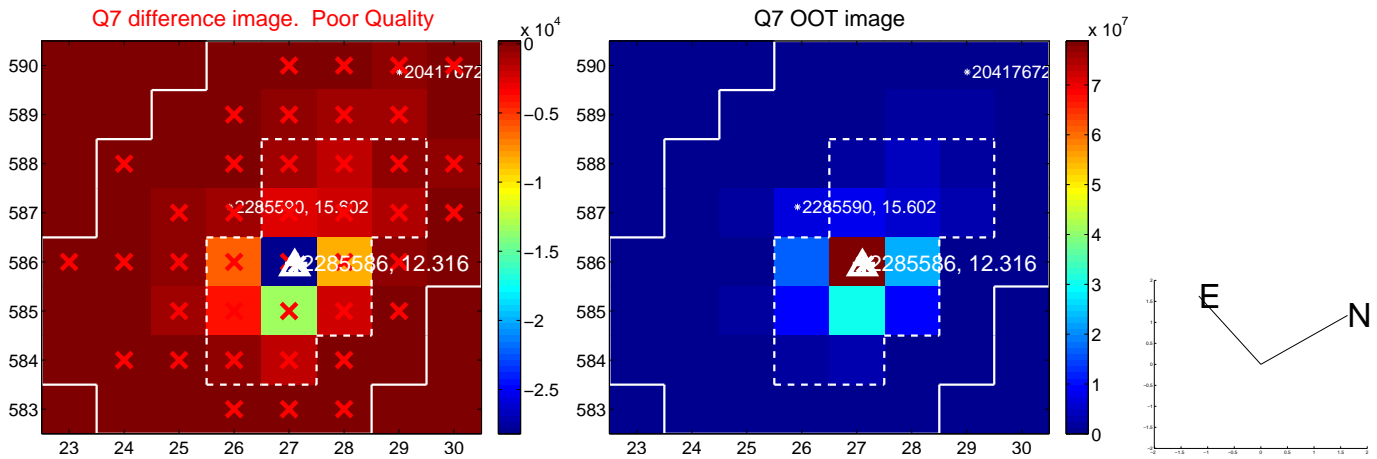
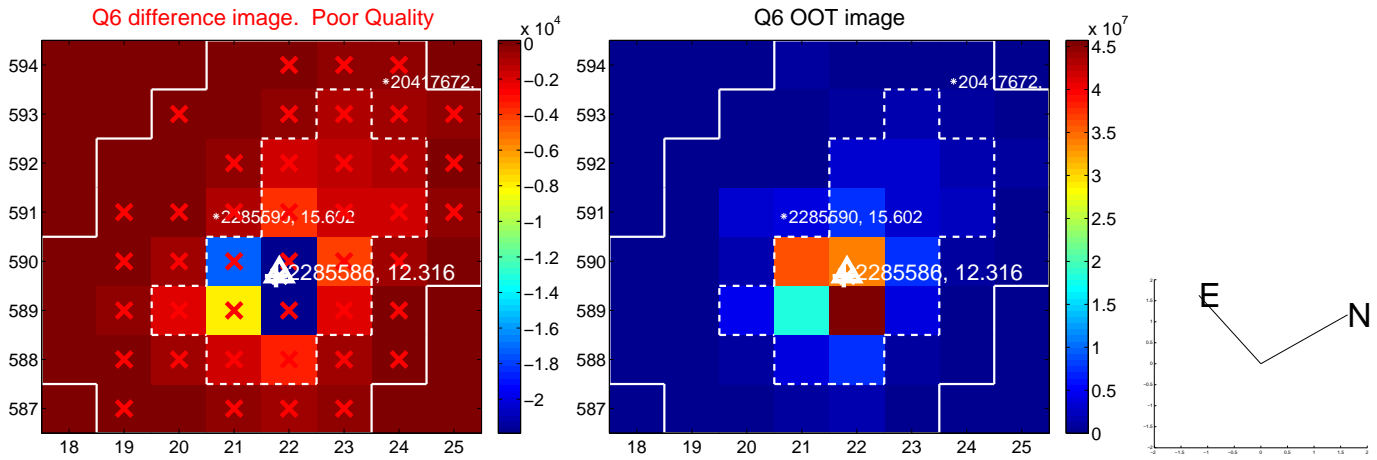
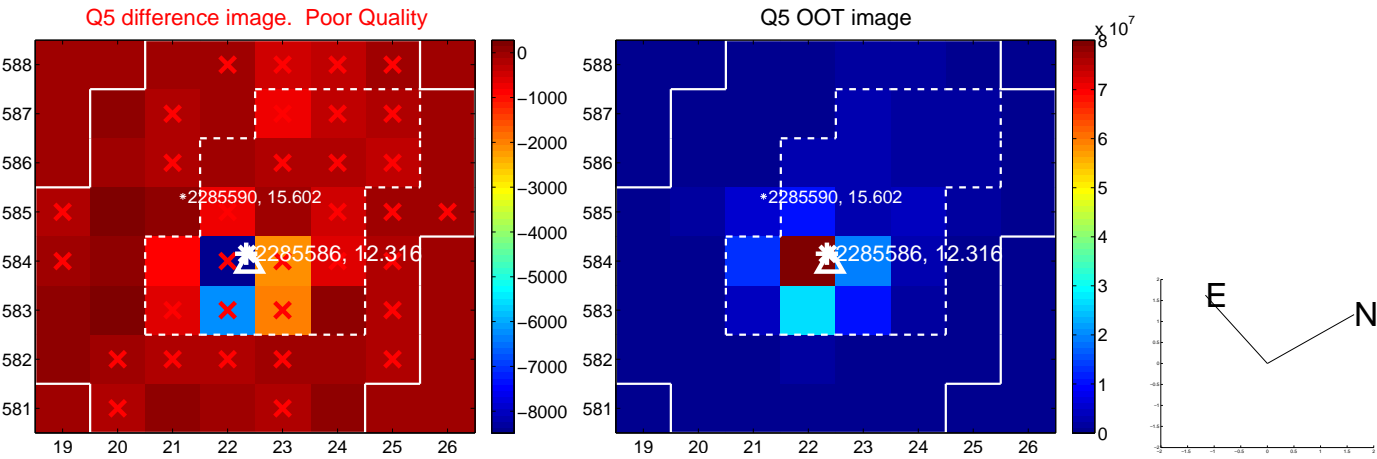


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

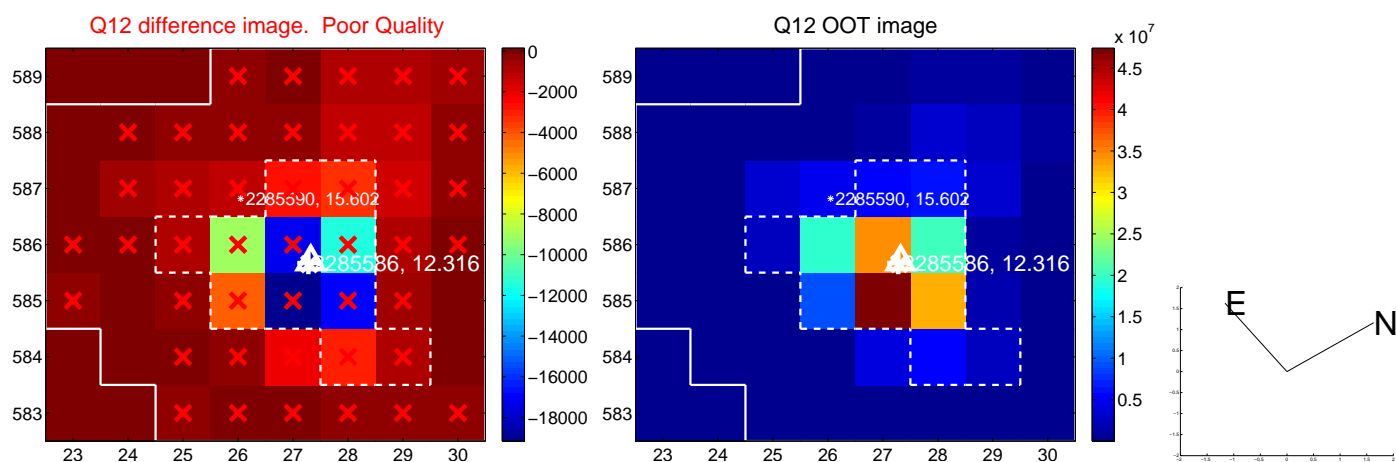
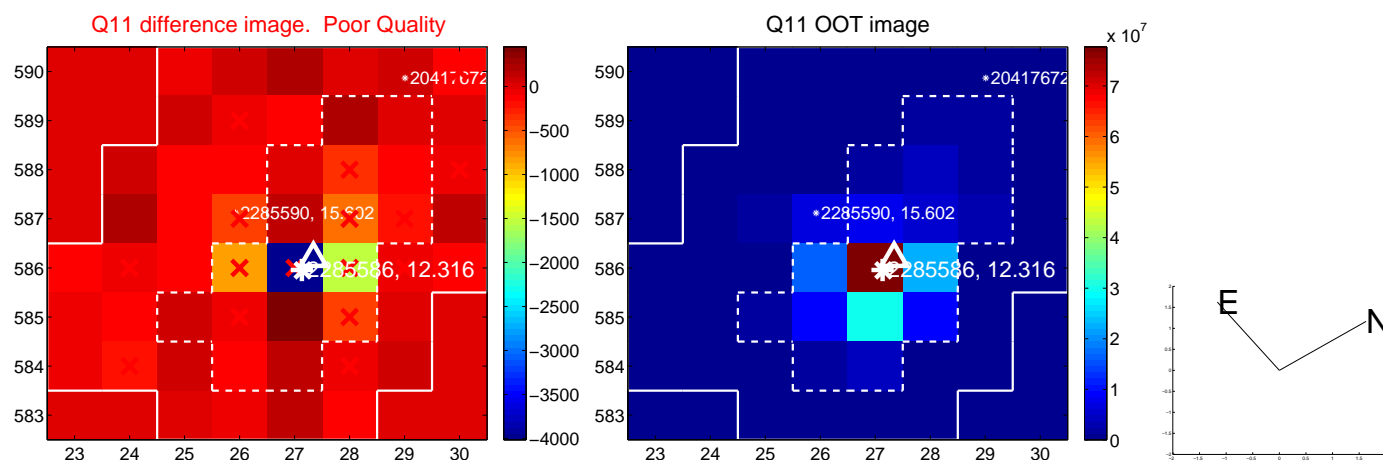
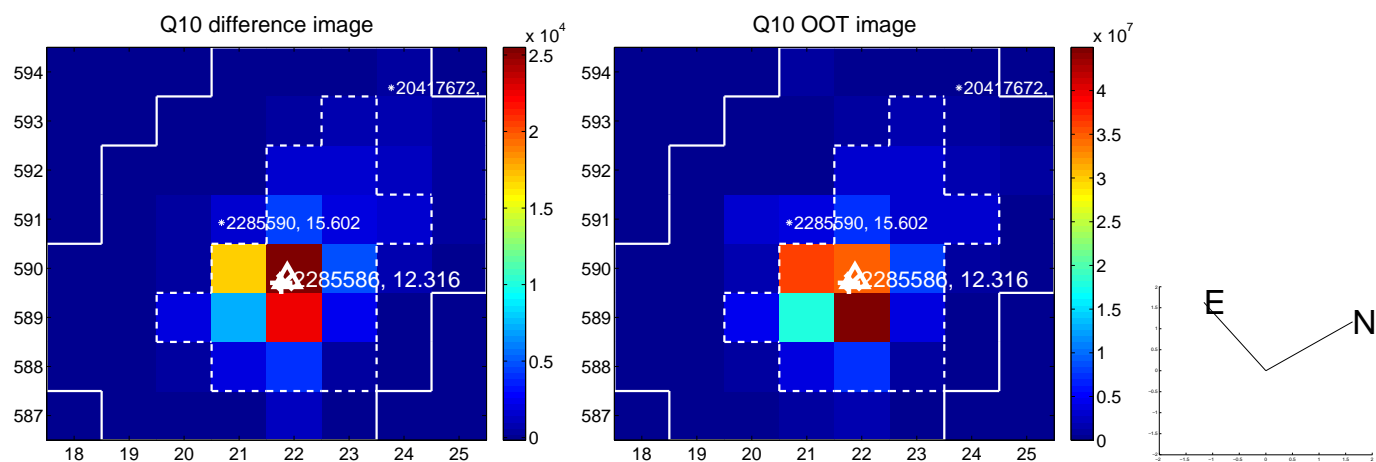
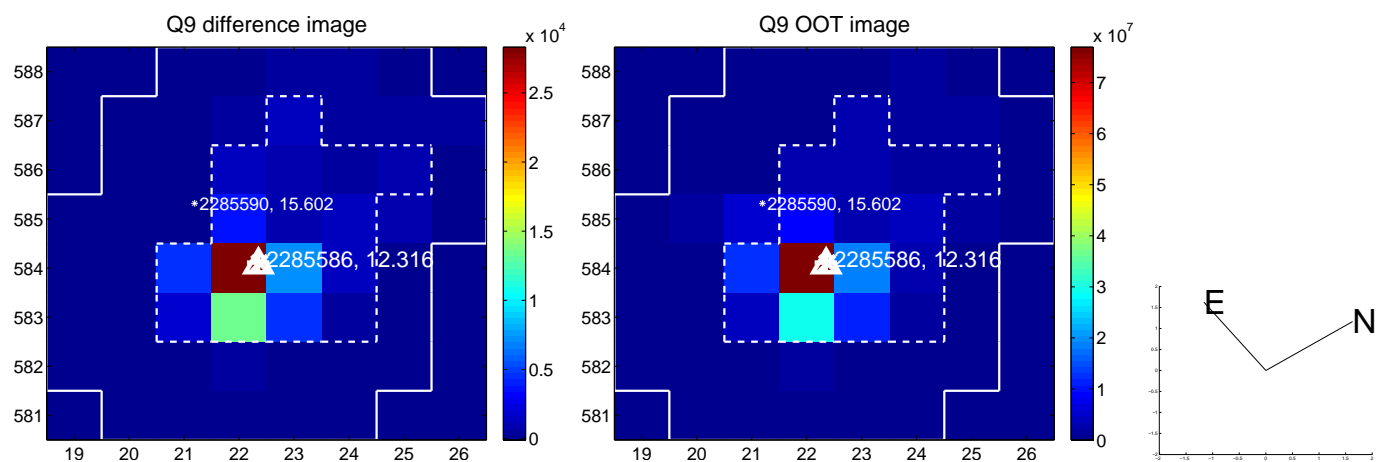
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



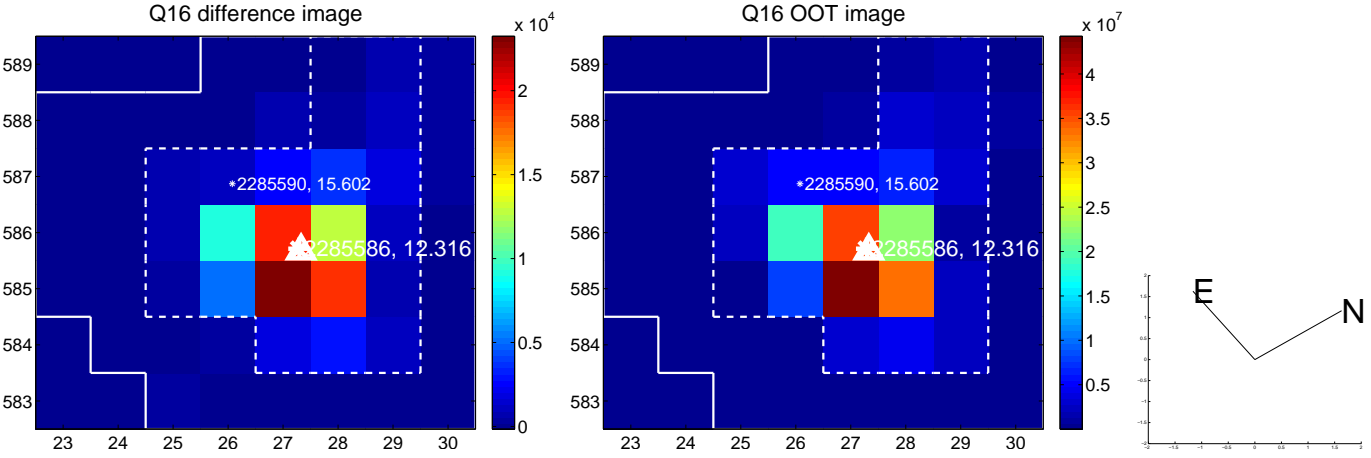
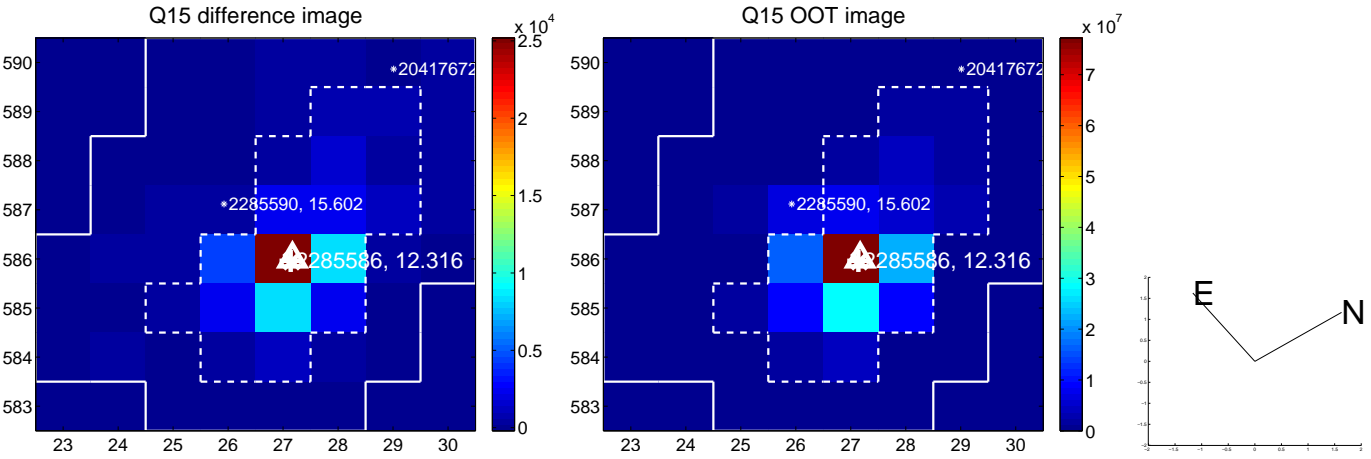
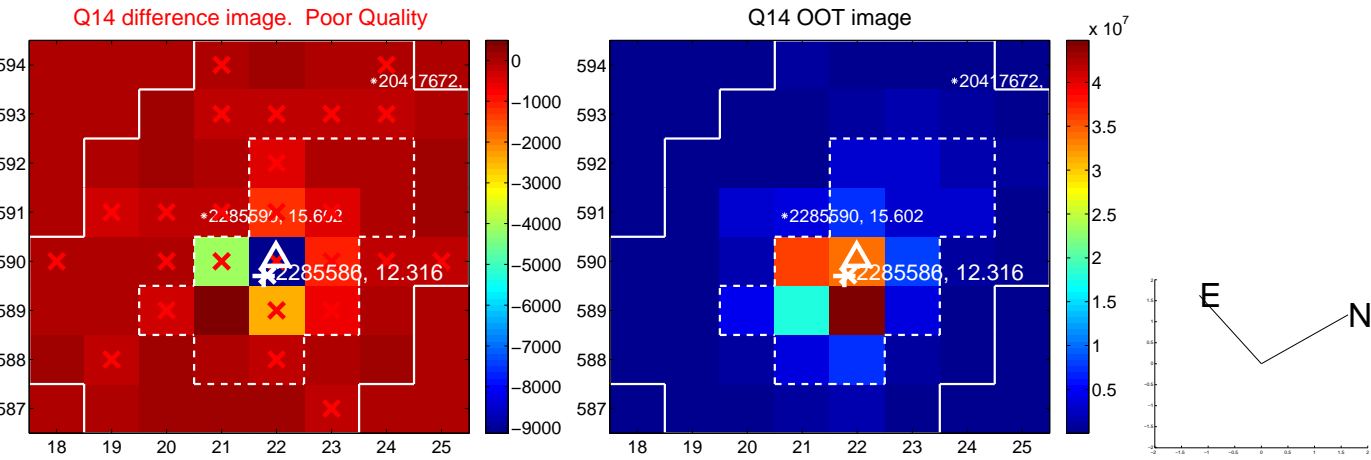
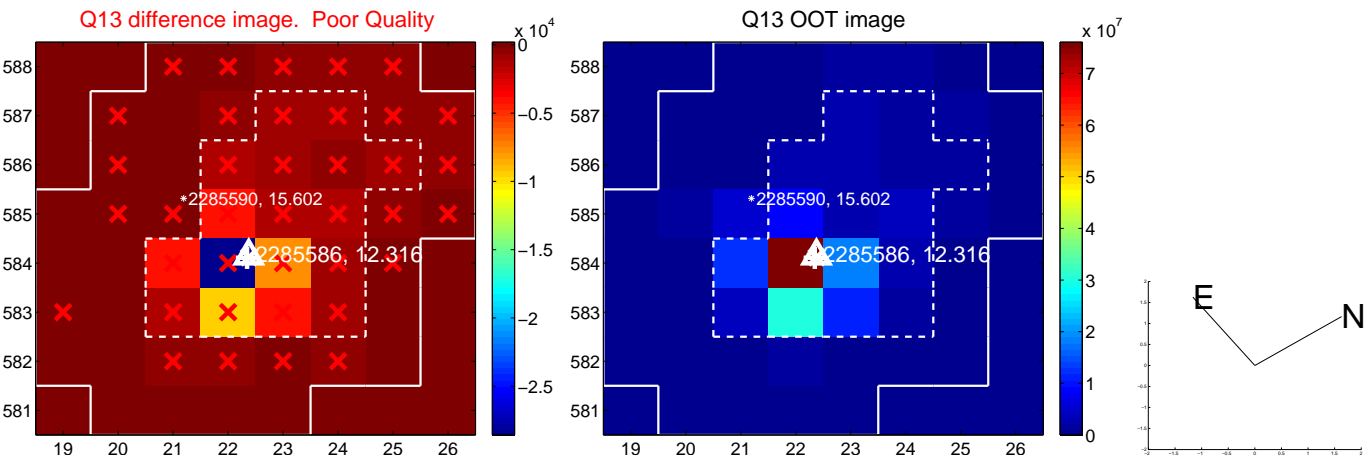
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



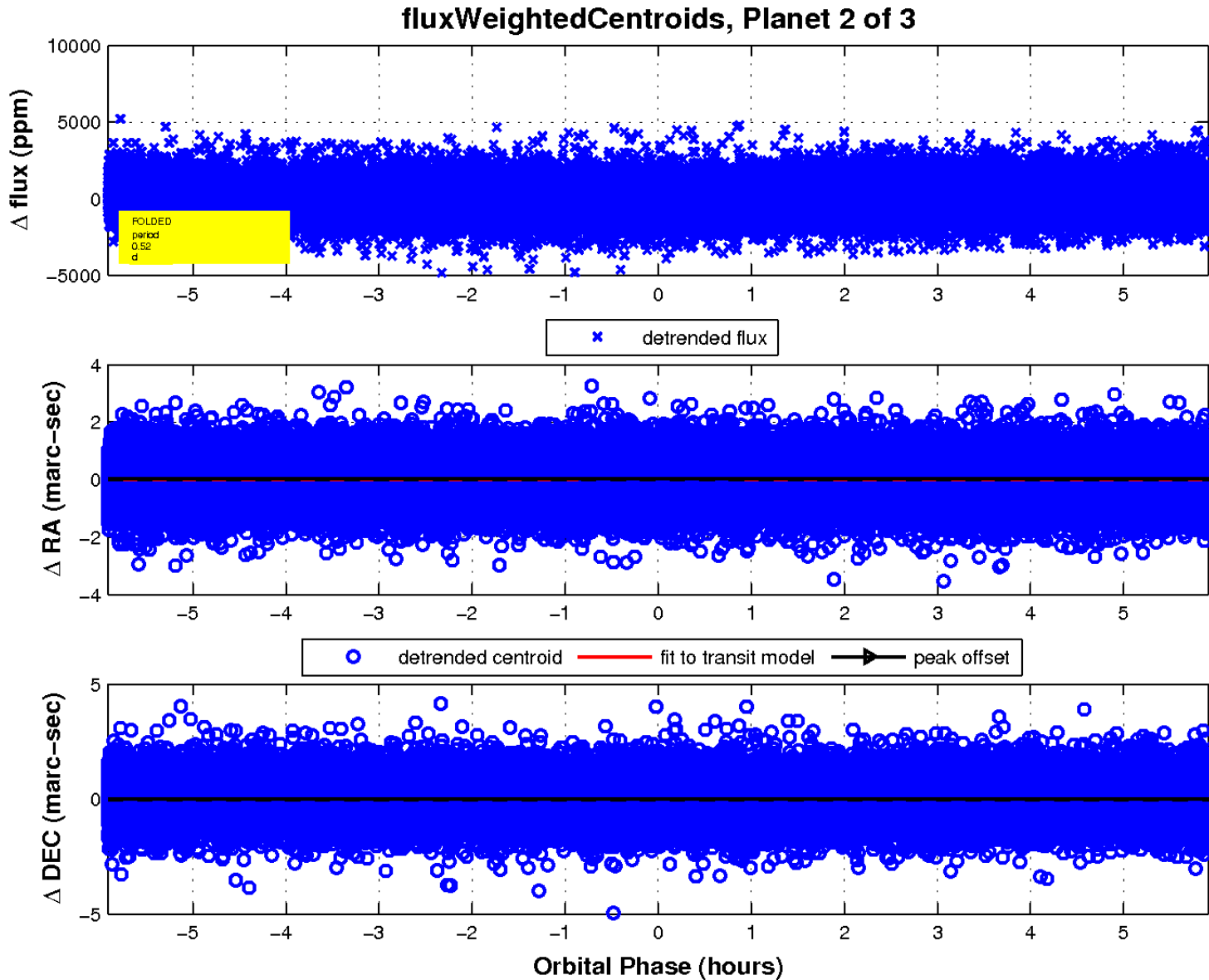
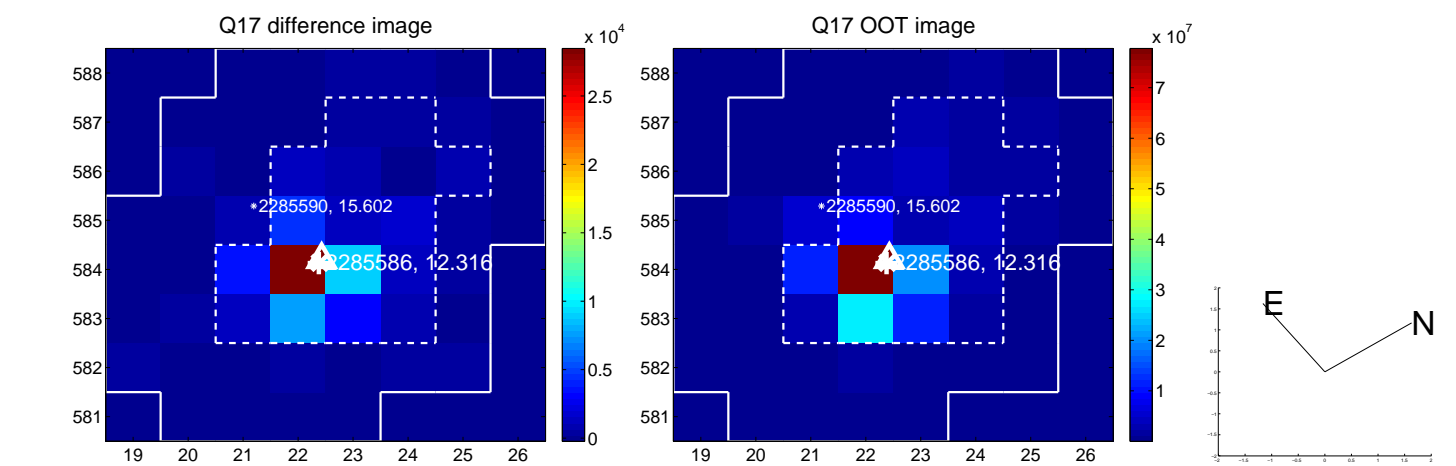
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



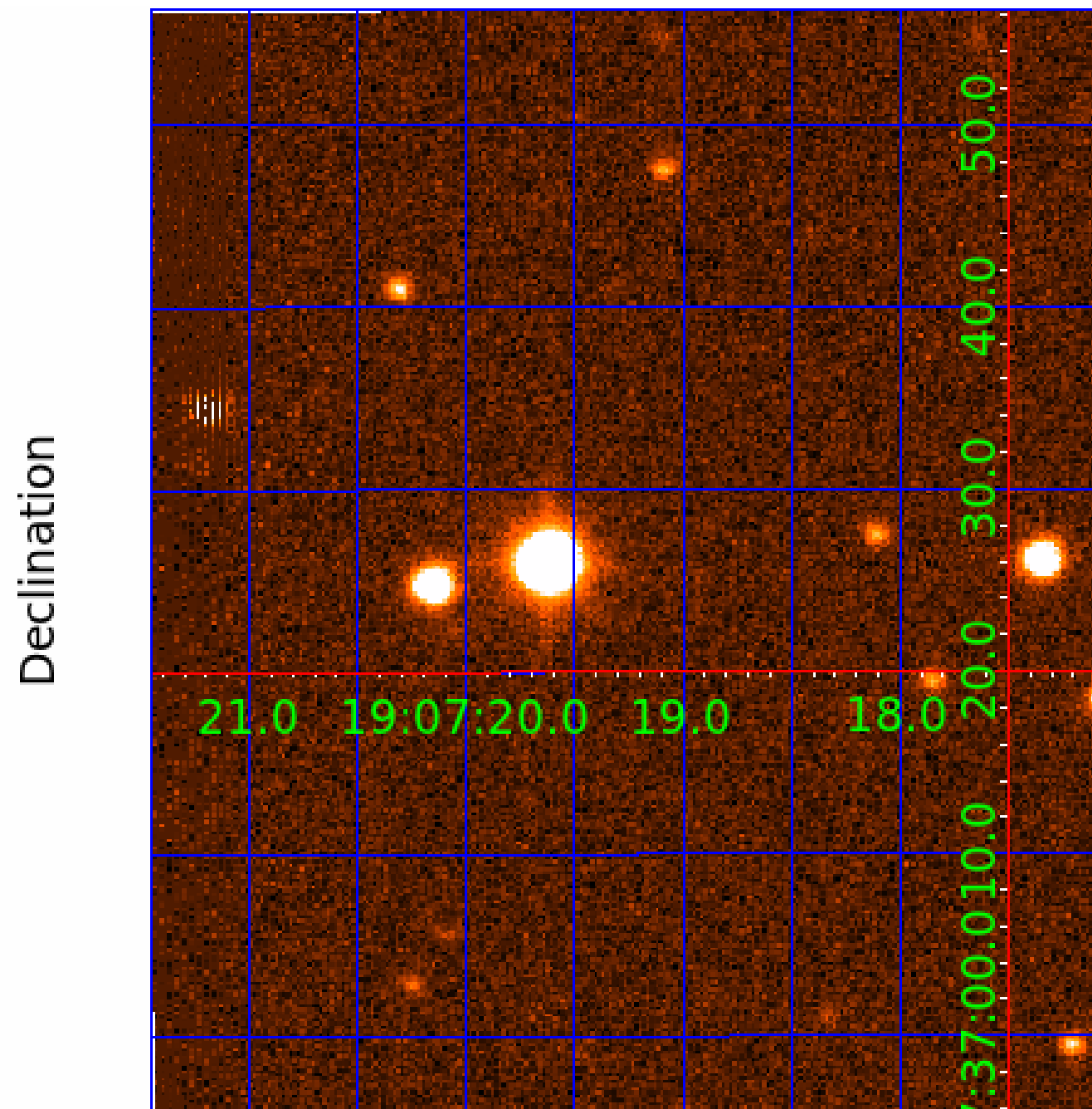
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 002285586

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})
002285586-01	OBS	No	0.521878	131.543863	34.3	1.552	9.1	7.7	1.62	6859	1.10	25302.57
002285586-02	OBS	No	0.522039	131.853463	58.9	1.971	9.0	6.7	1.62	6859	1.45	25292.14
002285586-03	OBS	No	28.487127	145.268947	1073.3	5.059	8.3	7.6	1.62	6859	9.94	122.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002285586-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
002285586-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SAME_NTL_PERIOD
002285586-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT

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

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

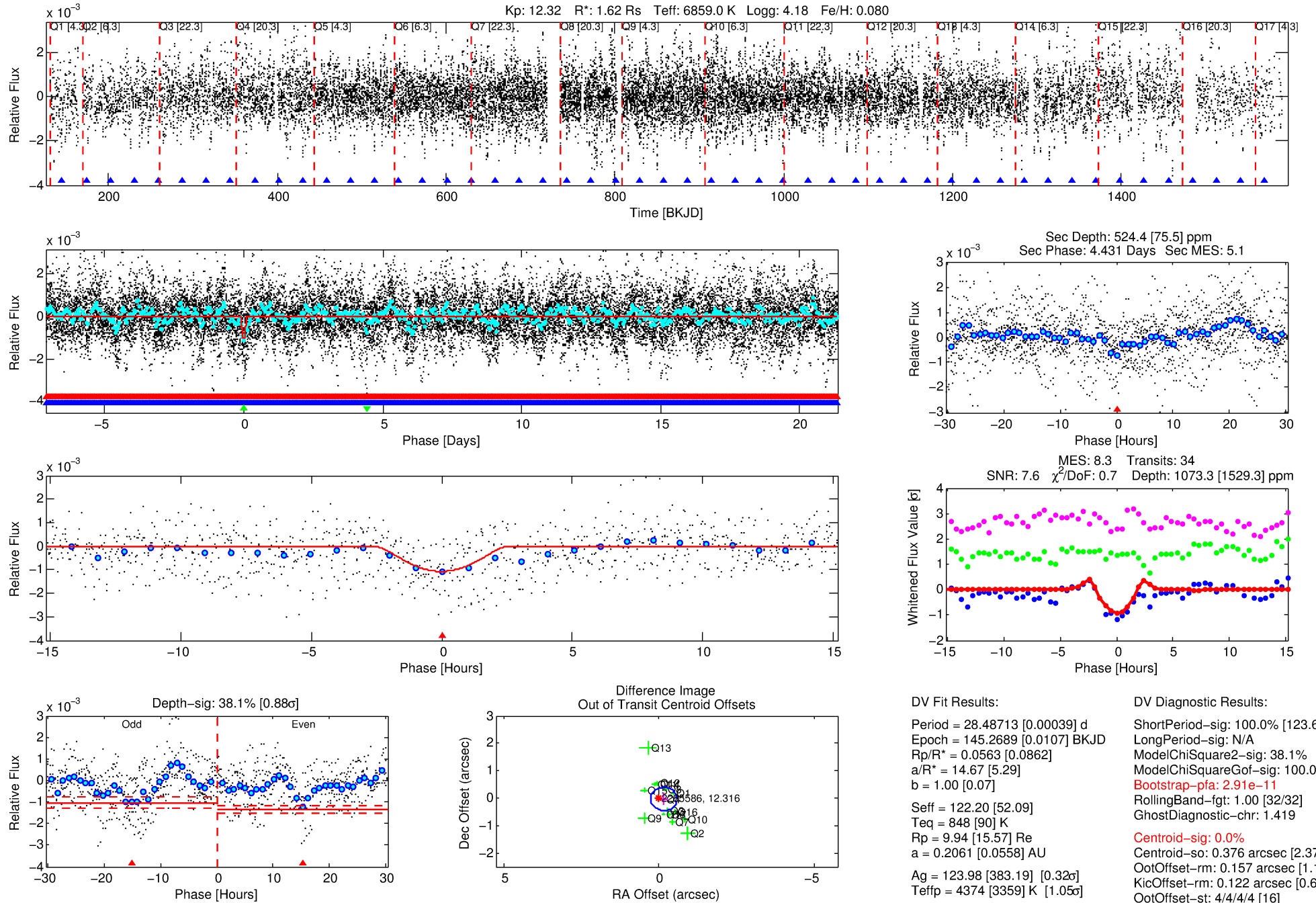
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 002285586-03

No Significant Match Found

DV One-Page Summary

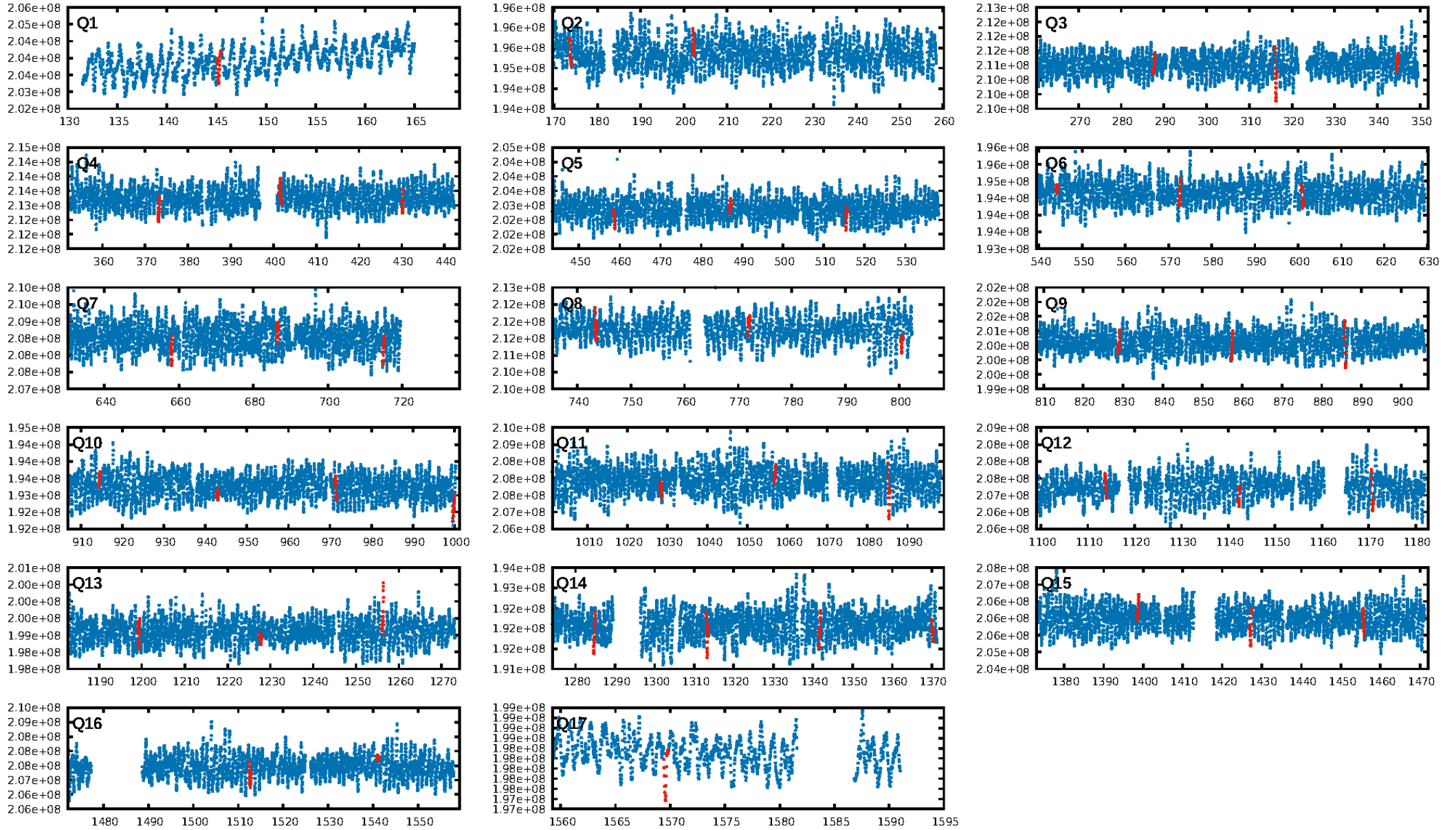
KIC: 2285586 Candidate: 3 of 3 Period: 28.487 d



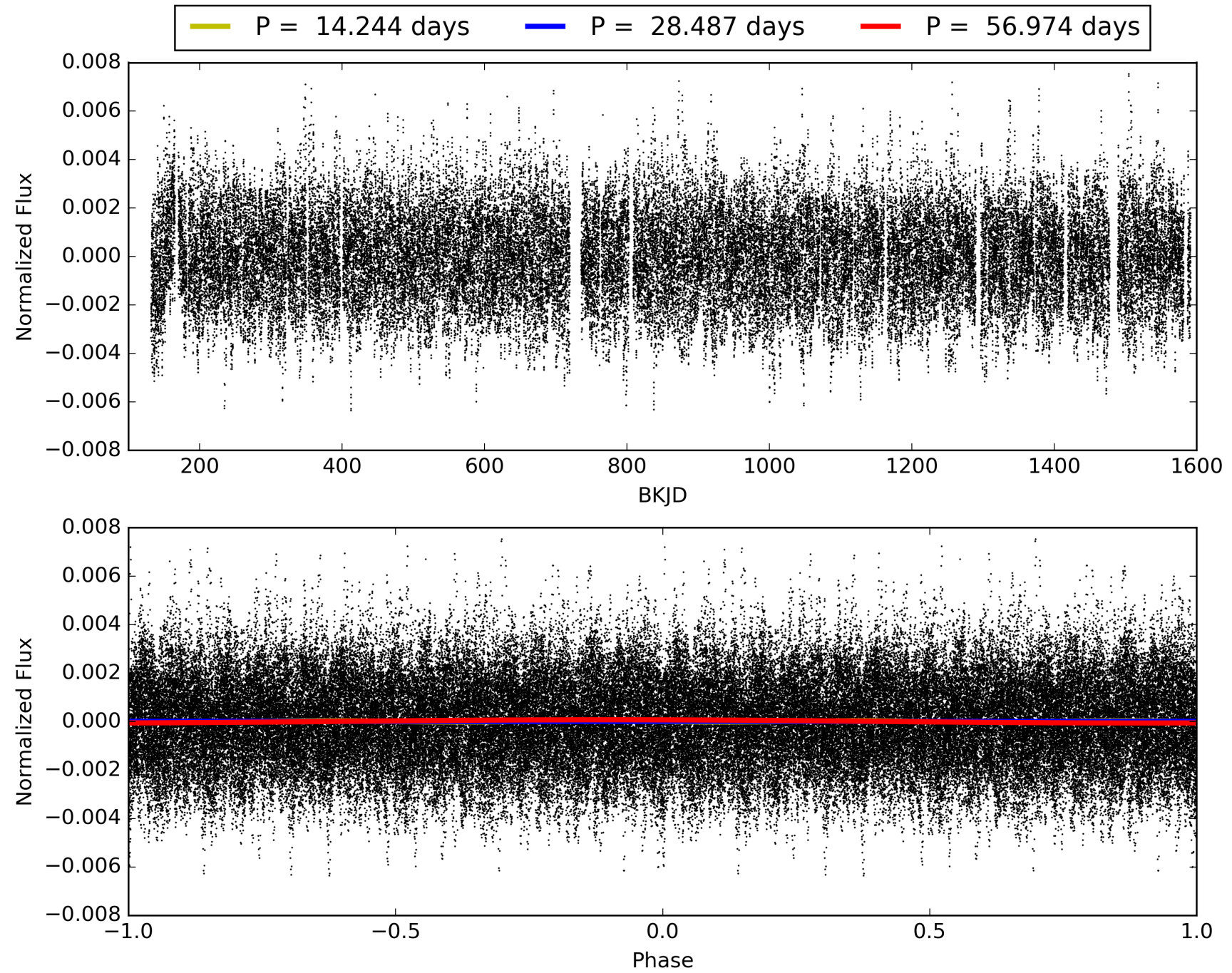
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 14:36:38 Z

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

TCE 002285586-03, PDC Light Curves

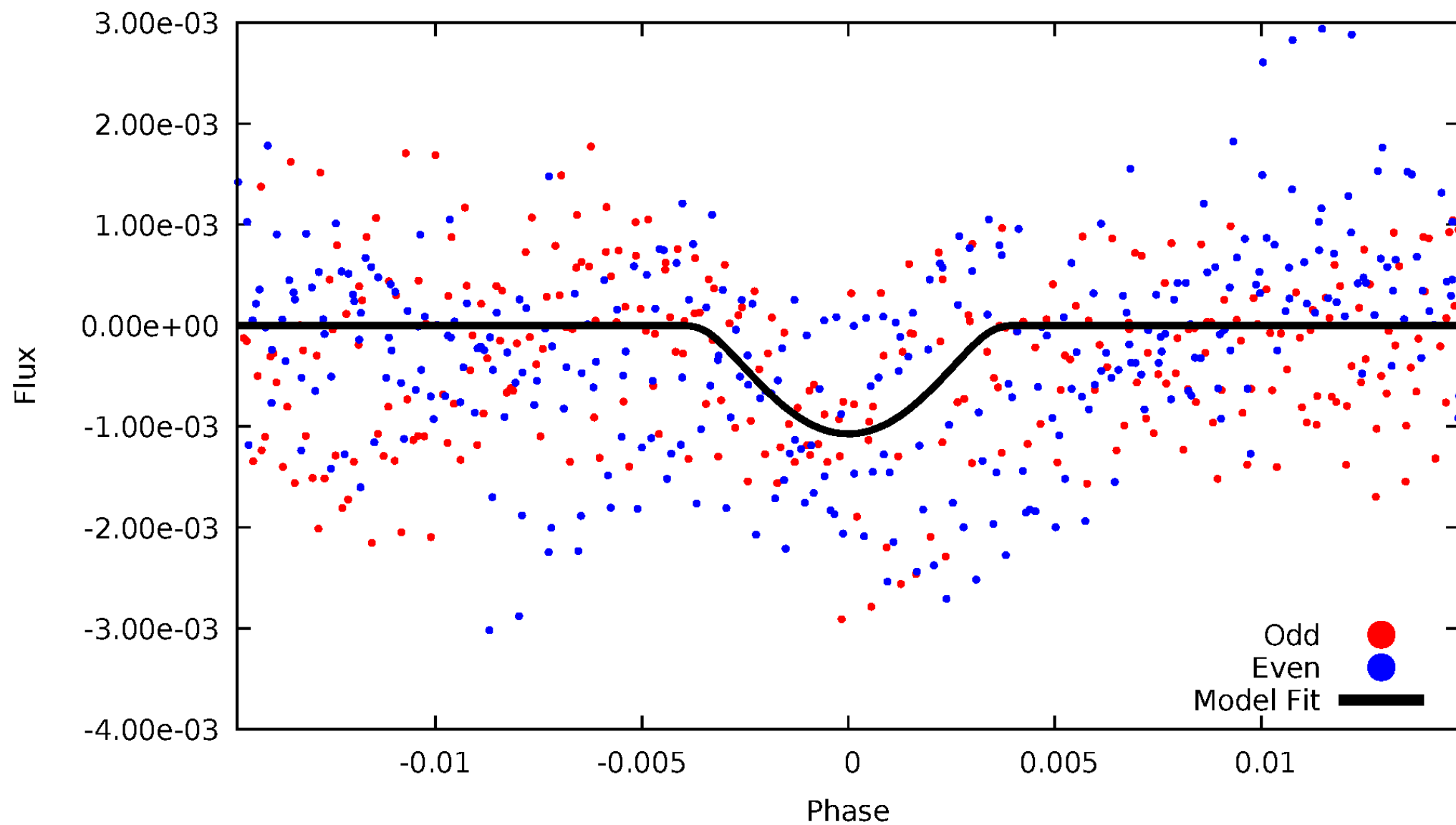


TCE 002285586-03



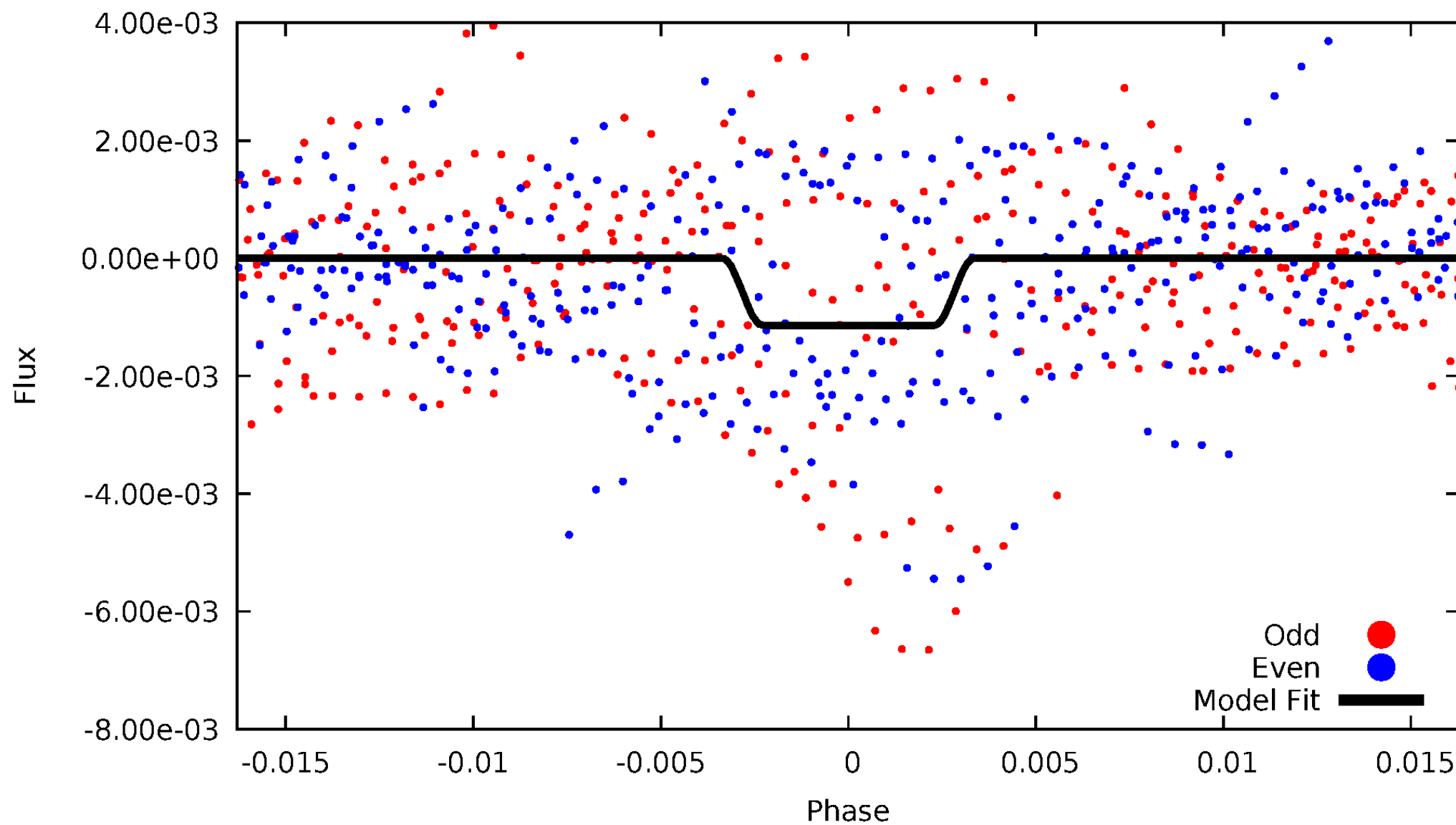
DV Odd/Even

TCE 002285586-03



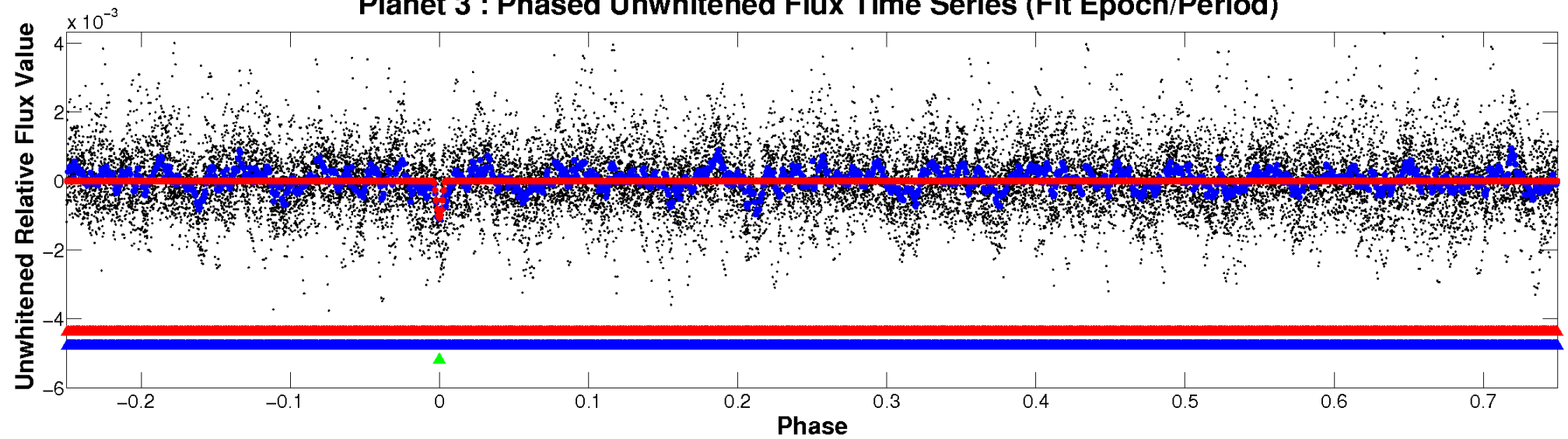
ALT Odd/Even

TCE 002285586-03

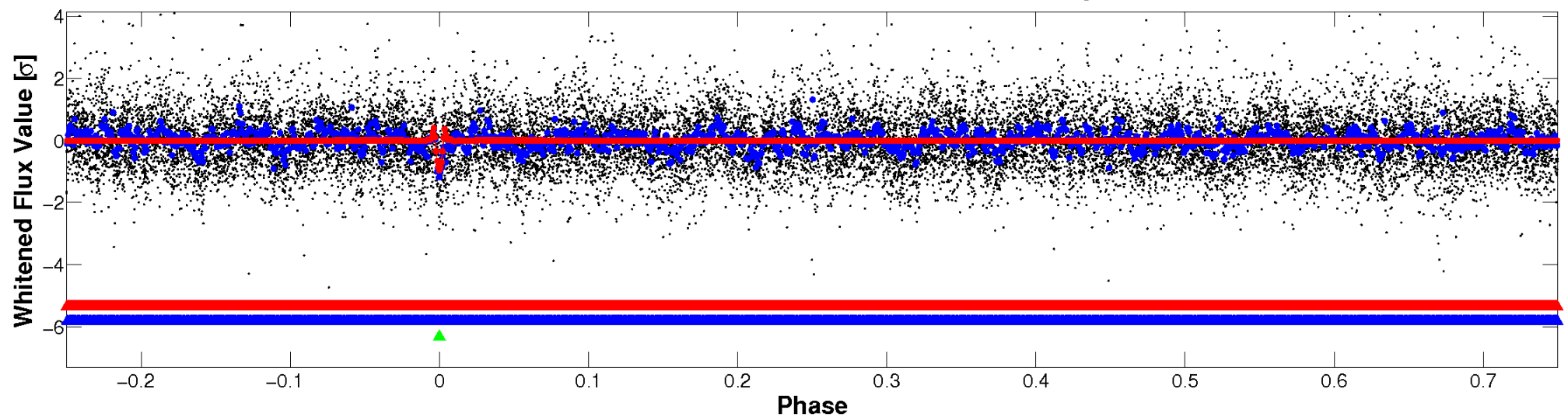


Non-Whitened Vs. Whitened Light Curve

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

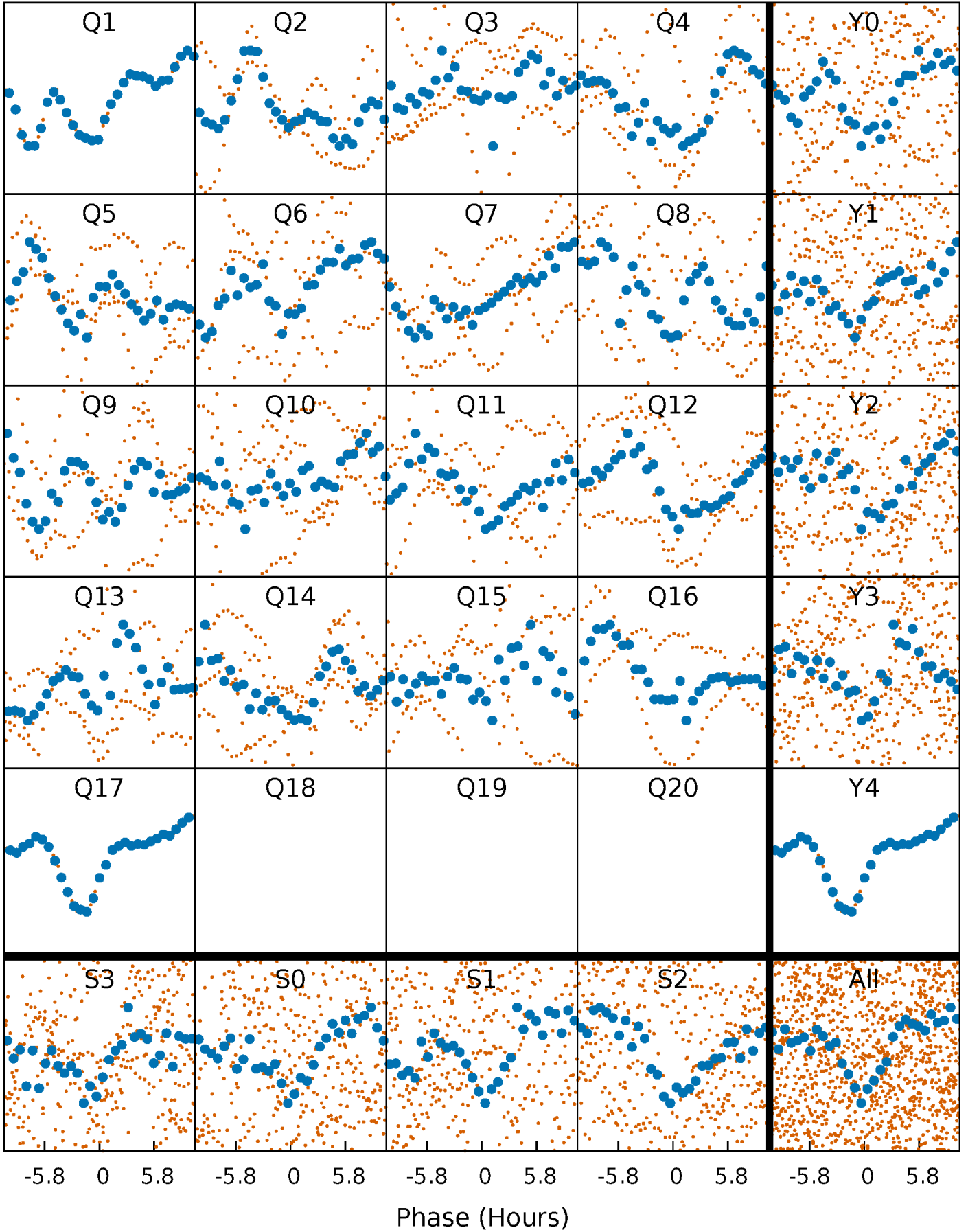


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



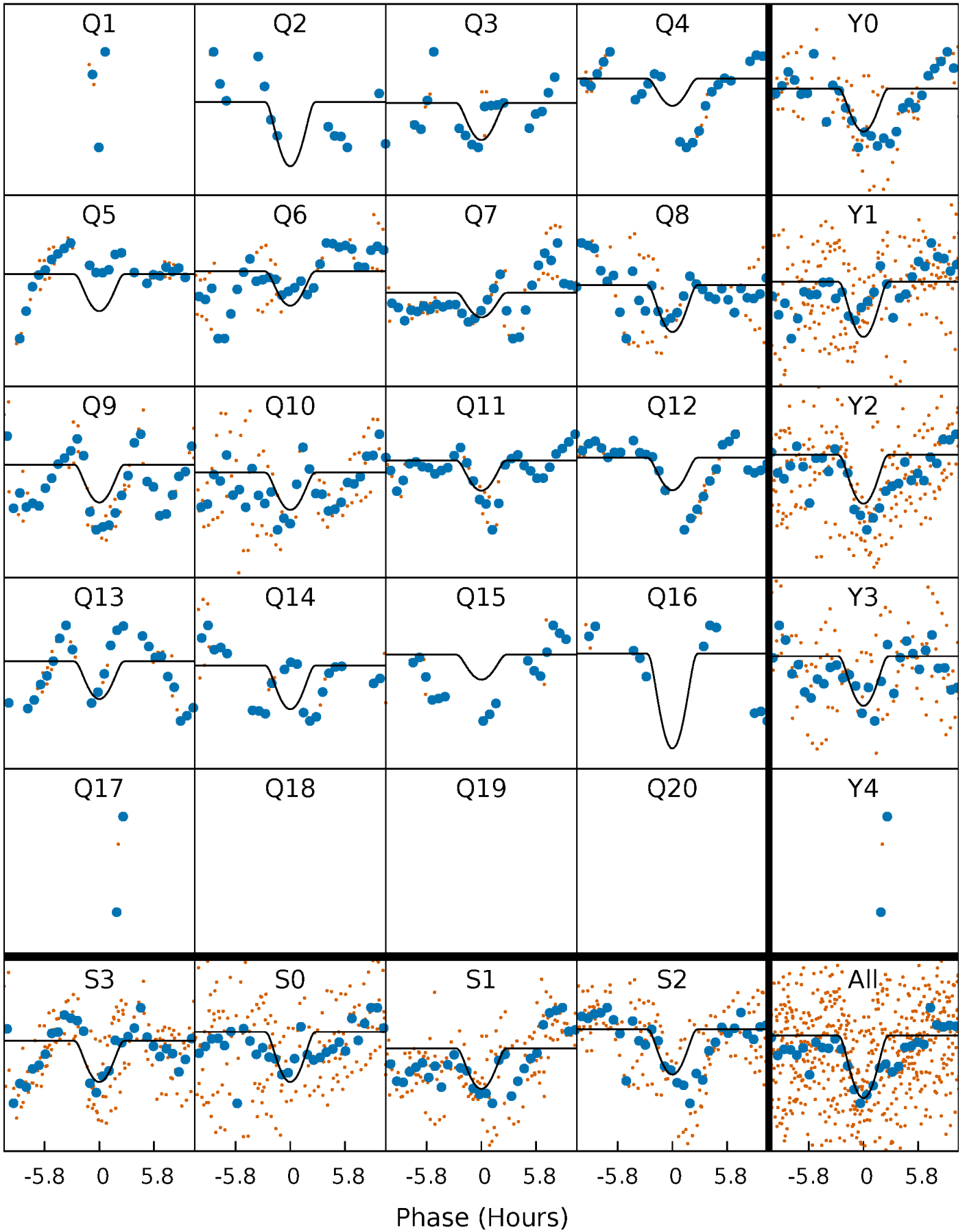
PDC Quarter-Phased Transit Curves

TCE 002285586-03 P= 28.487127 Days $T_0=145.268946$ (BKJD)



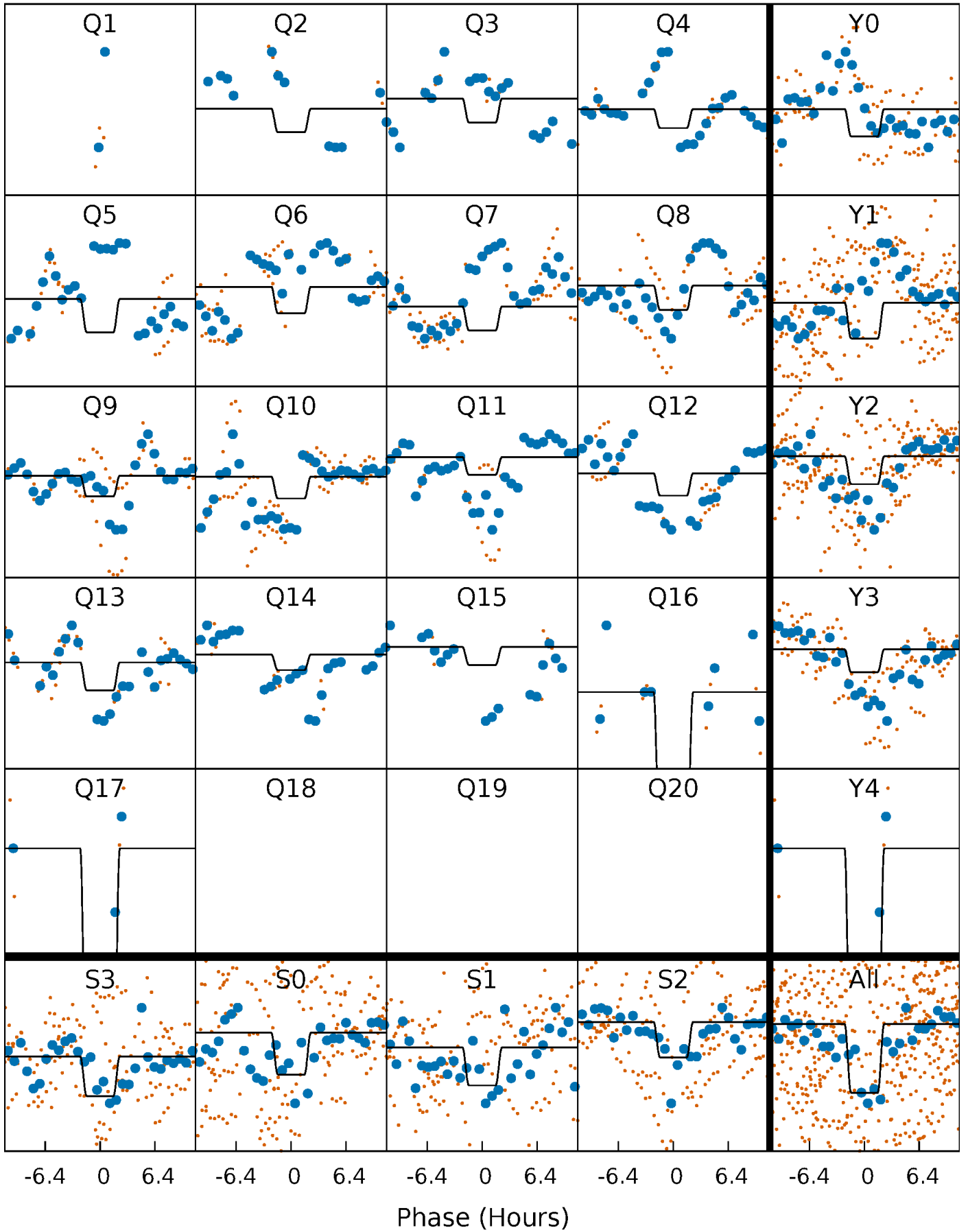
DV Quarter-Phased Transit Curves

TCE 002285586-03 P= 28.487127 Days $T_0=145.268946$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

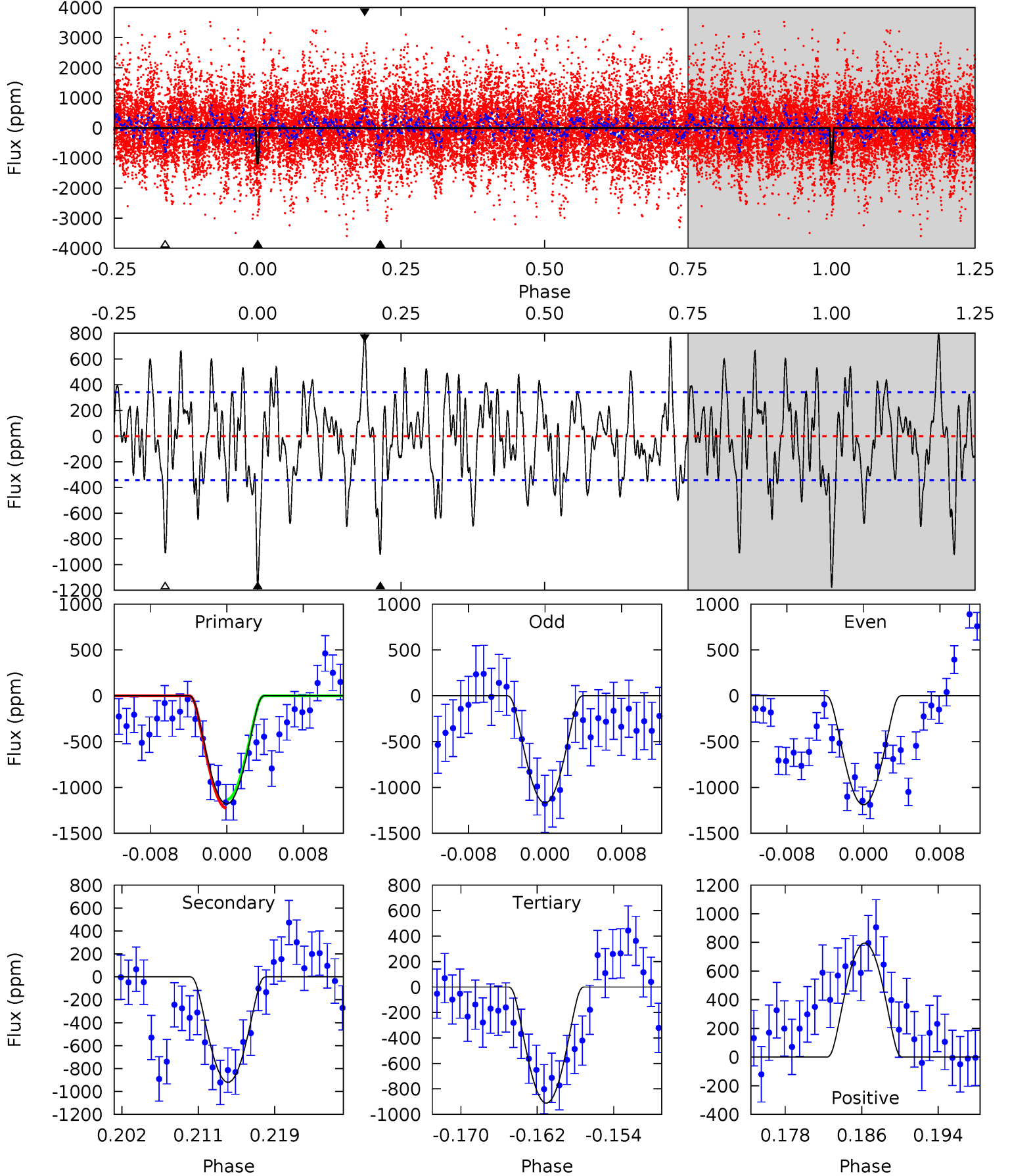
TCE 002285586-03 P= 28.487354 Days $T_0=145.247037$ (BKJD)



DV Model-Shift Uniqueness Test

002285586-03, P = 28.487127 Days, E = 116.781819 Days

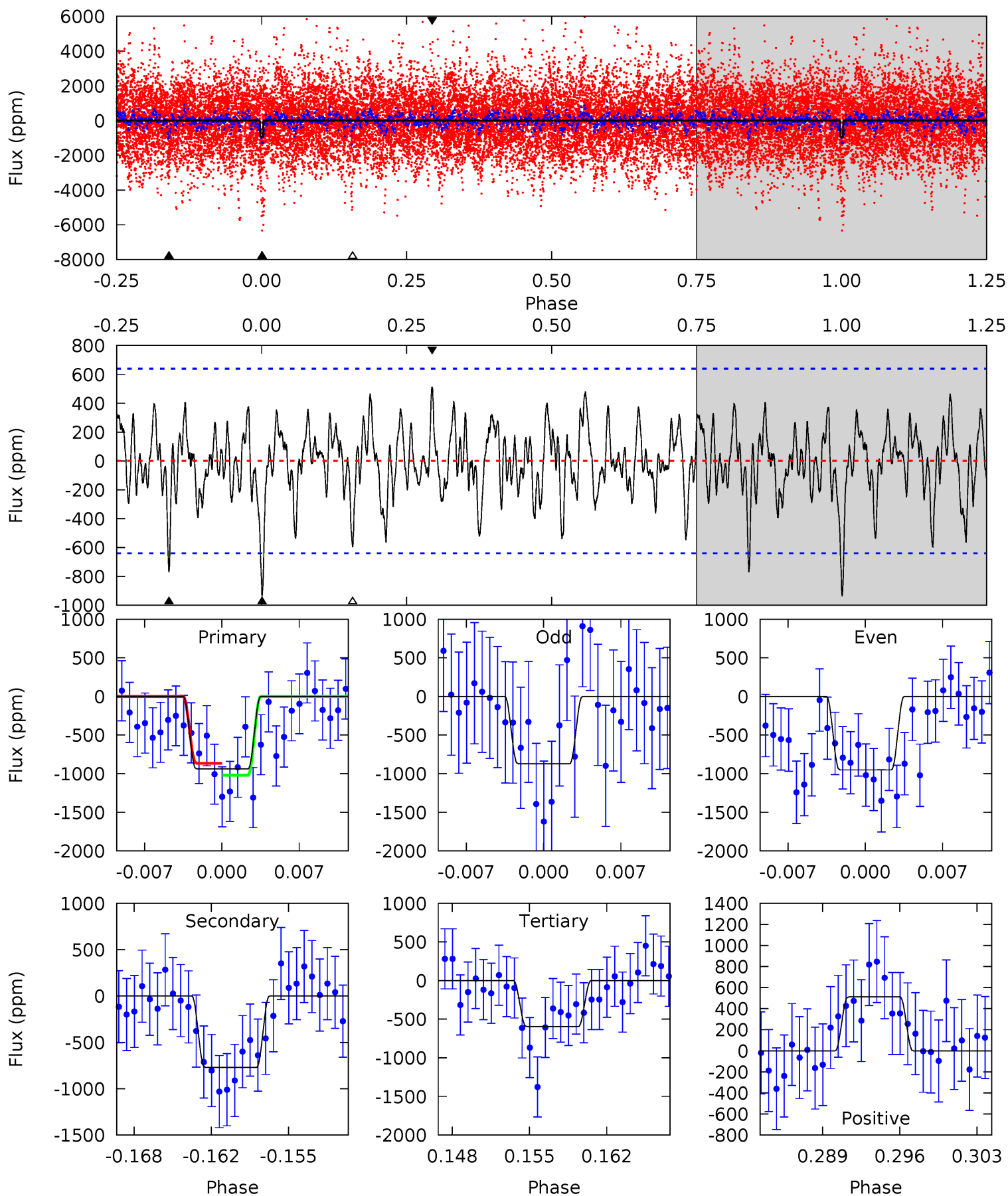
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.5	13.6	13.5	11.8	5.07	2.65	4.18	4.00	5.70	0.13	1.84	0.15	1.04	0.40	0.69



Alt Model-Shift Uniqueness Test

002285586-03, P = 28.487354 Days, E = 116.759683 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.48	6.14	4.77	4.08	5.10	2.71	1.58	2.72	3.40	1.37	2.06	0.31	0.83	0.35	0.62



Stellar Parameters For KIC 002285586

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6859^{+189}_{-307}	$4.178^{+0.112}_{-0.208}$	$0.080^{+0.200}_{-0.350}$	$1.618^{+0.530}_{-0.309}$	$1.440^{+0.218}_{-0.239}$	$0.479^{+0.306}_{-0.250}$
	+3%/-4%	+3%/-5%	+250%/-438%	+33%/-19%	+15%/-17%	+64%/-52%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 002285586-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-920 ± 67	$15.25^{+13.99}_{-10.08}$	1200^{+98}_{-84}	4313^{+2625}_{-853}	88^{+716}_{-63}
Alt.	-769 ± 125	$12.50^{+13.14}_{-9.08}$	1195^{+107}_{-76}	4487^{+3886}_{-1006}	110^{+1358}_{-83}

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 $A_{obs} \gg 1.0$

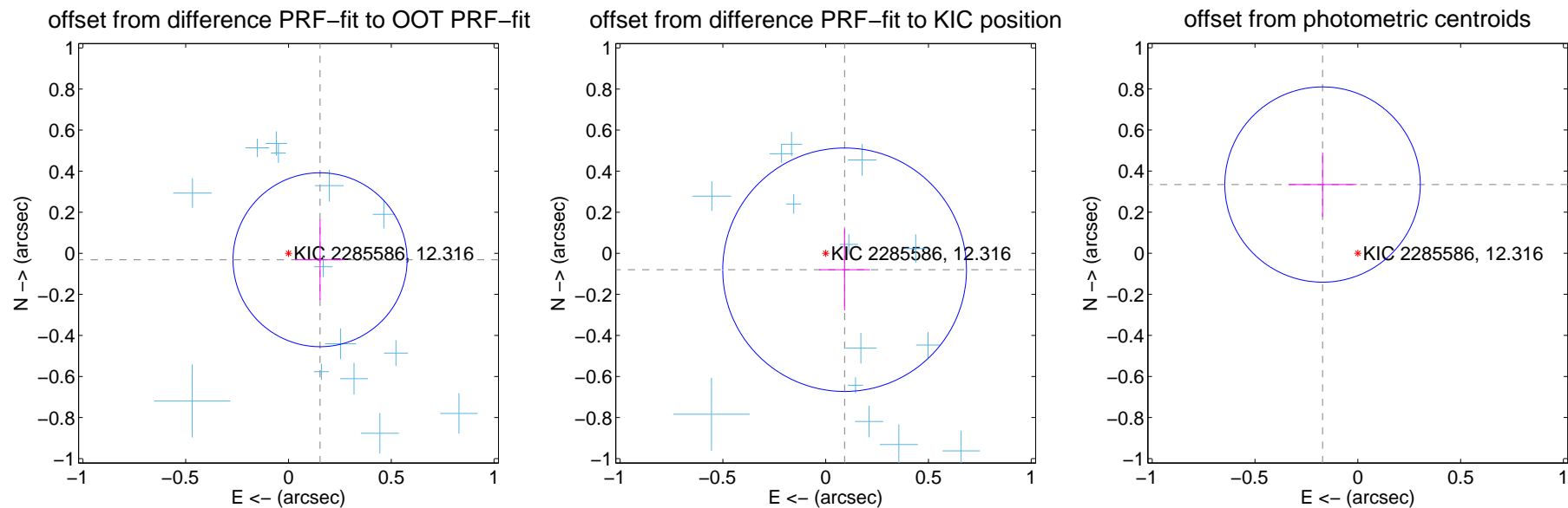
DV Centroid Data

Supplemental centroid analysis for 002285586-03. Kepler magnitude: 12.32. Transit SNR 7.61

There are 16 quarters with good PRF difference image offsets

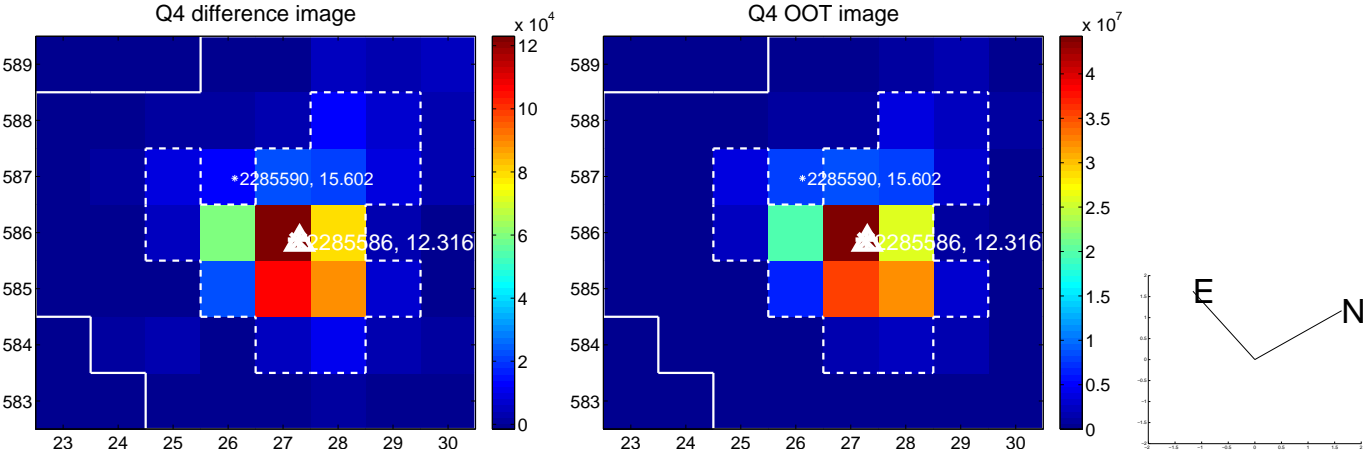
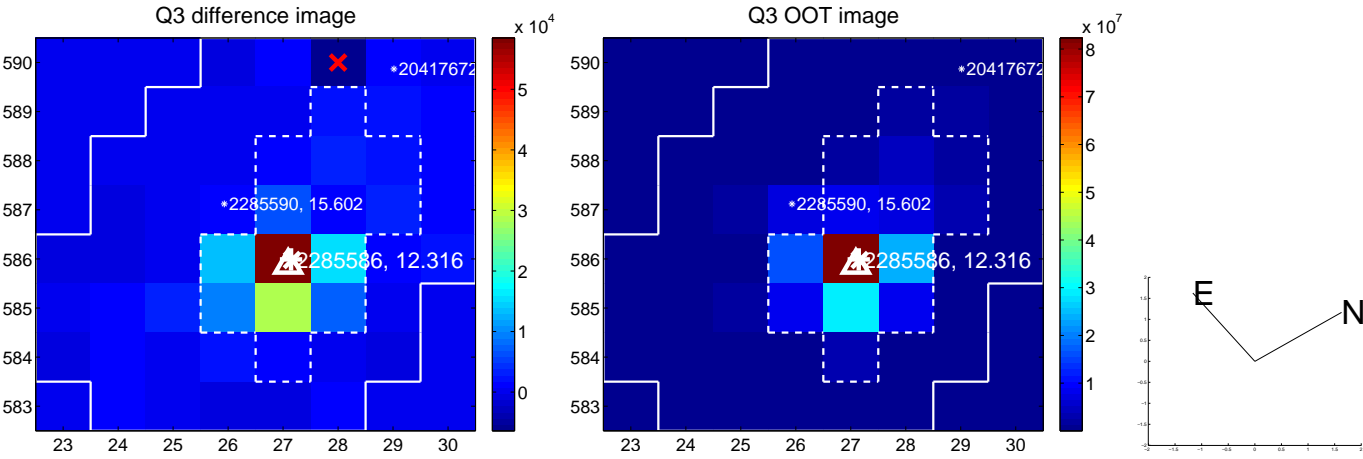
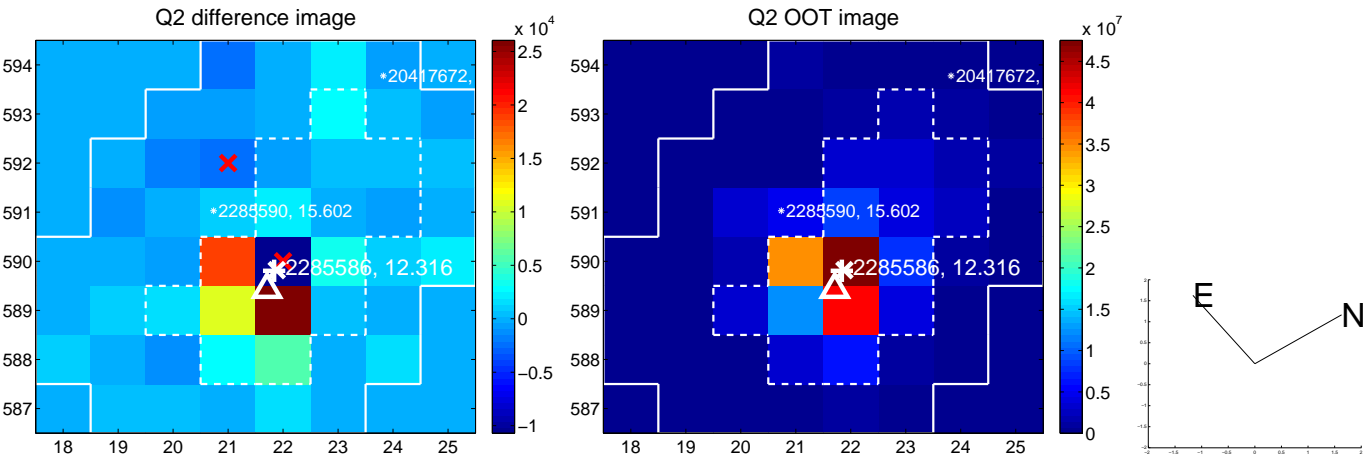
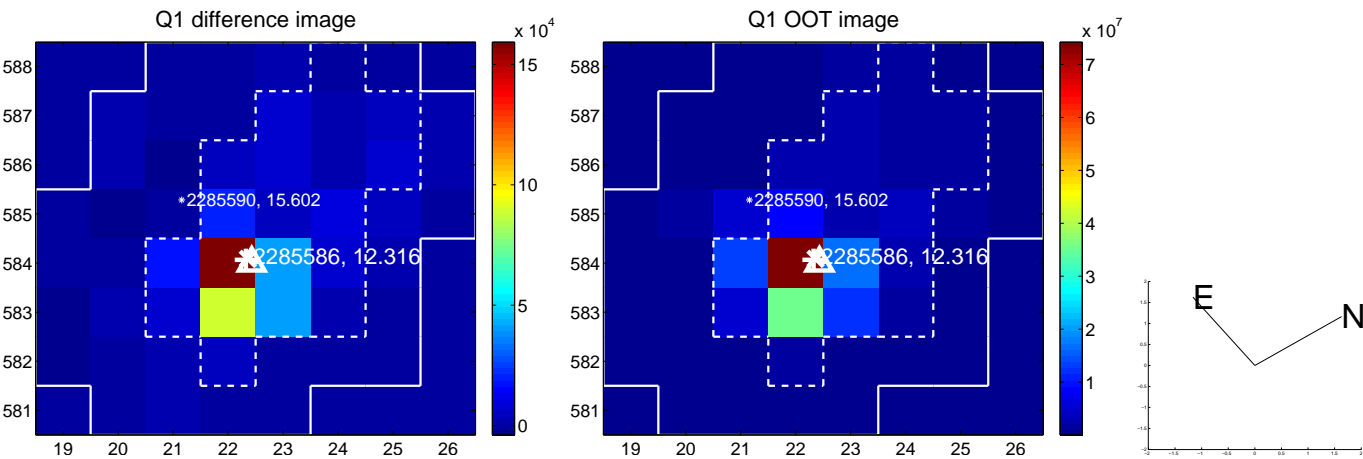
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.157 ± 0.141	1.11	-0.154 ± 0.120	-0.031 ± 0.195
PRF-fit source offset from KIC position	0.122 ± 0.198	0.62	-0.092 ± 0.124	-0.080 ± 0.198
photometric centroid source offset	0.38 ± 0.16	2.37	0.17 ± 0.17	0.33 ± 0.16

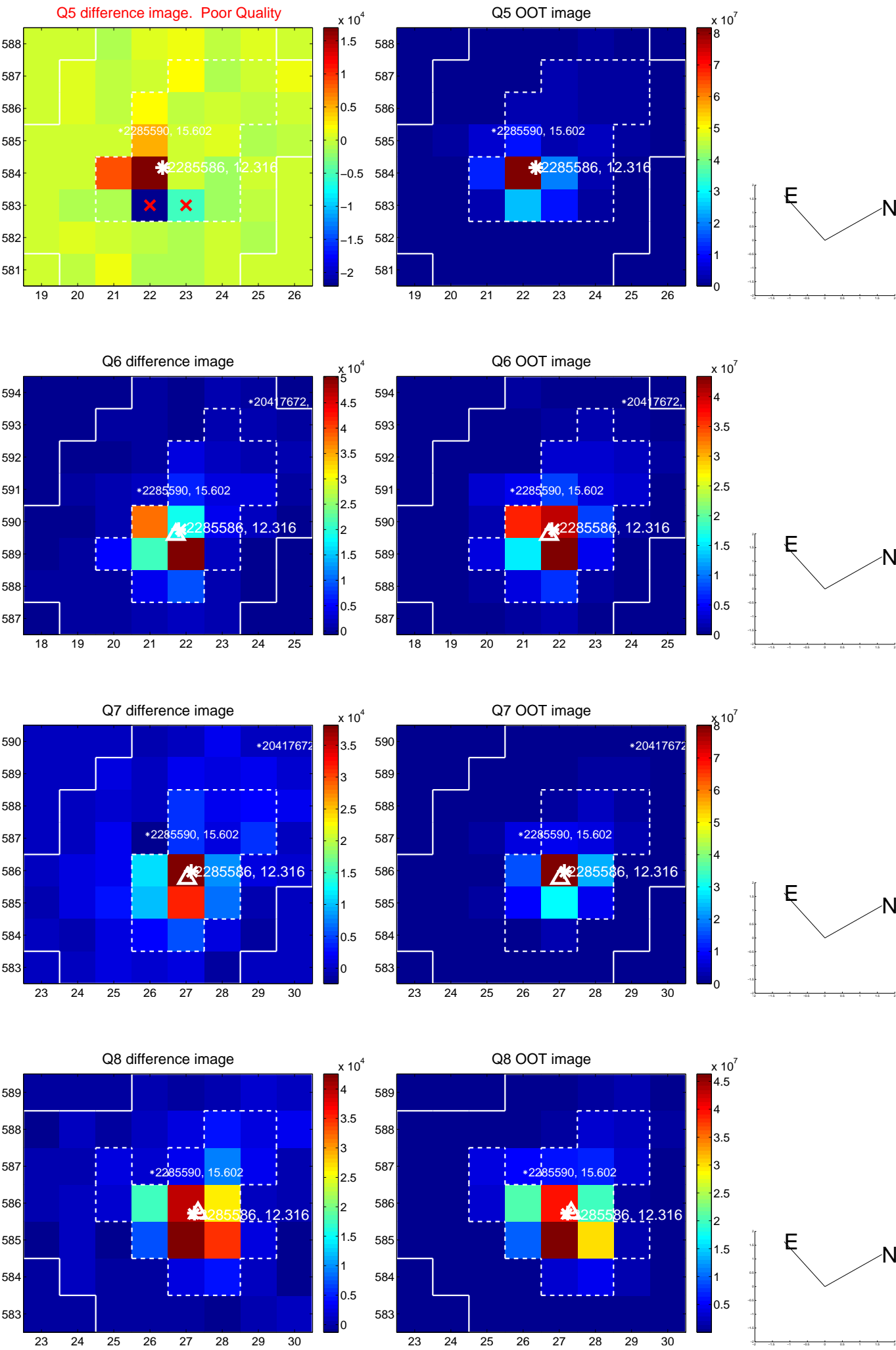


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

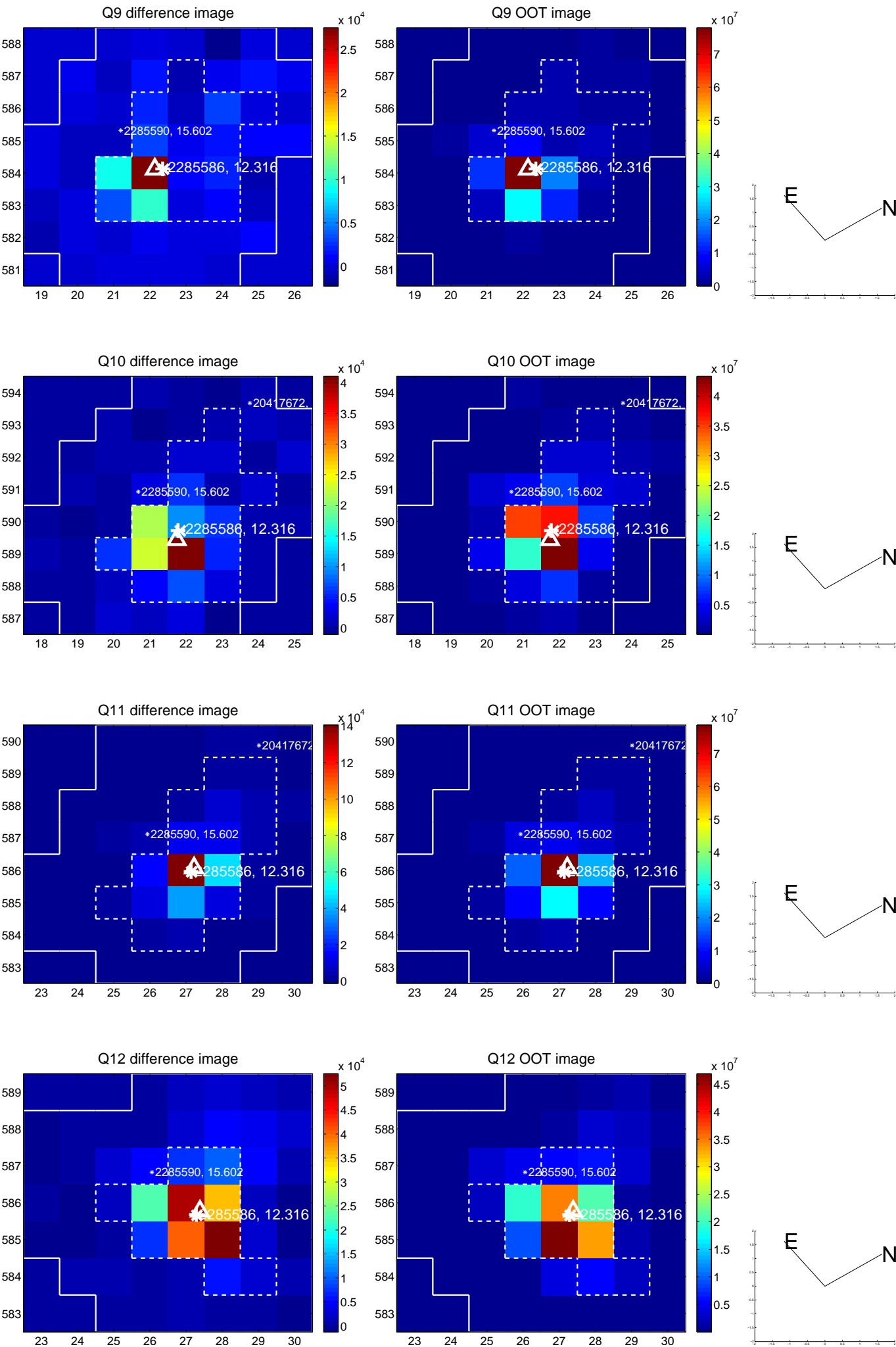
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



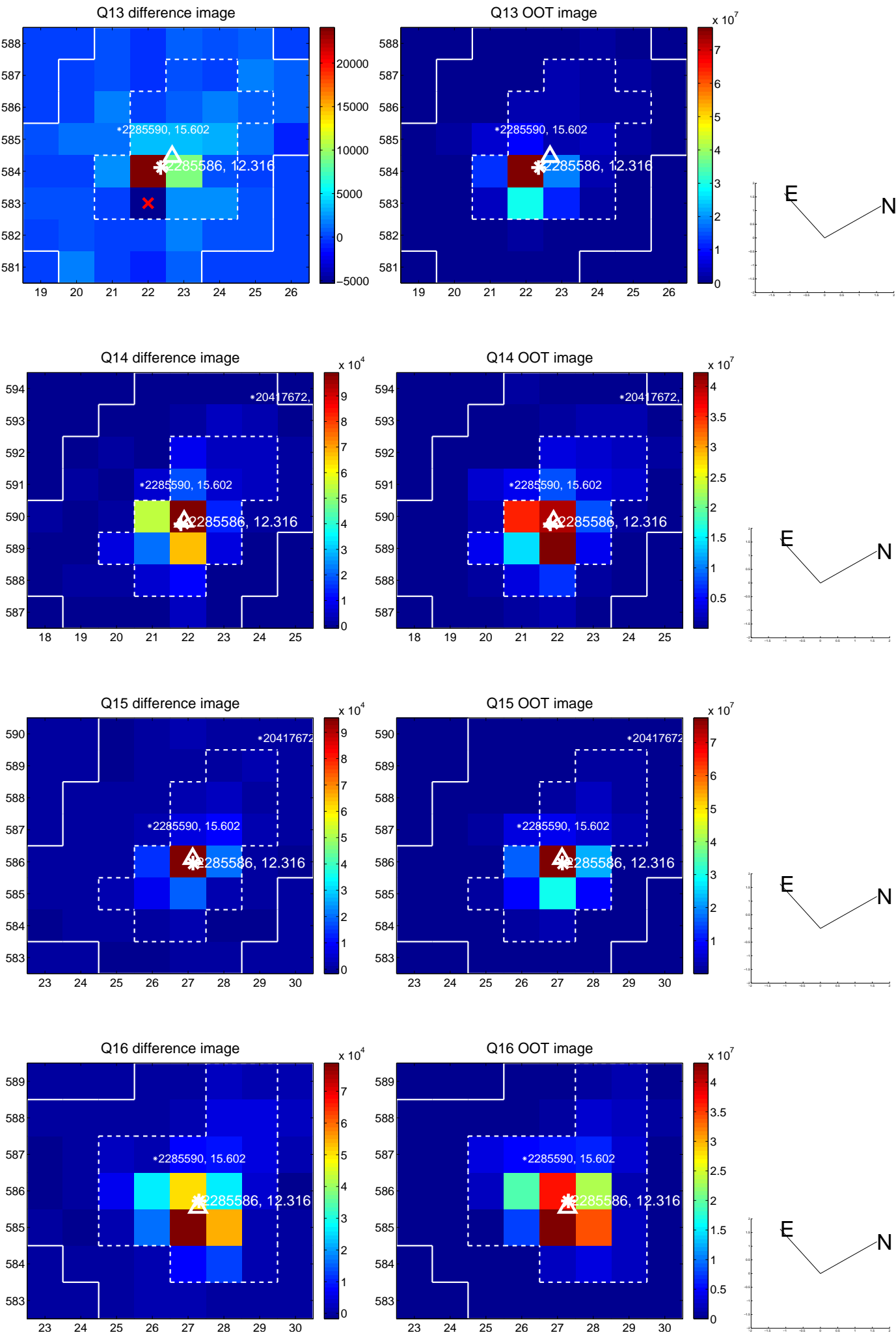
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



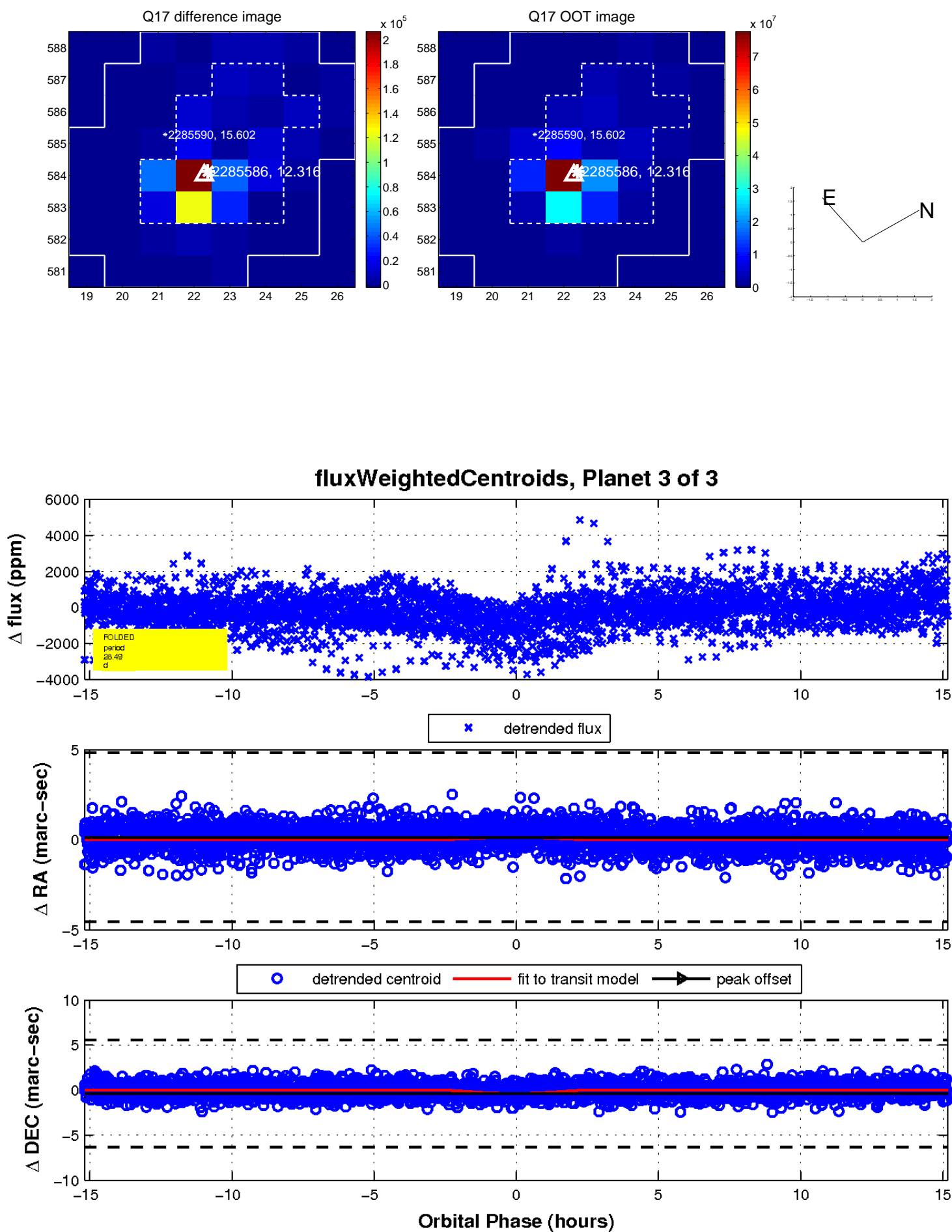
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

