

KIC 003635233

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})
003635233-01	OBS	No	3.743115	132.527895	50.8	7.737	13.5	11.1	1.00	5780	0.85	449.05
003635233-02	OBS	No	3.743786	134.417207	32.2	16.449	10.2	7.4	1.00	5780	0.63	448.94
003635233-03	OBS	No	1.247672	131.641748	82.2	12.676	10.2	14.1	1.00	5780	0.91	1942.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003635233-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
003635233-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_KIC_POS
003635233-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

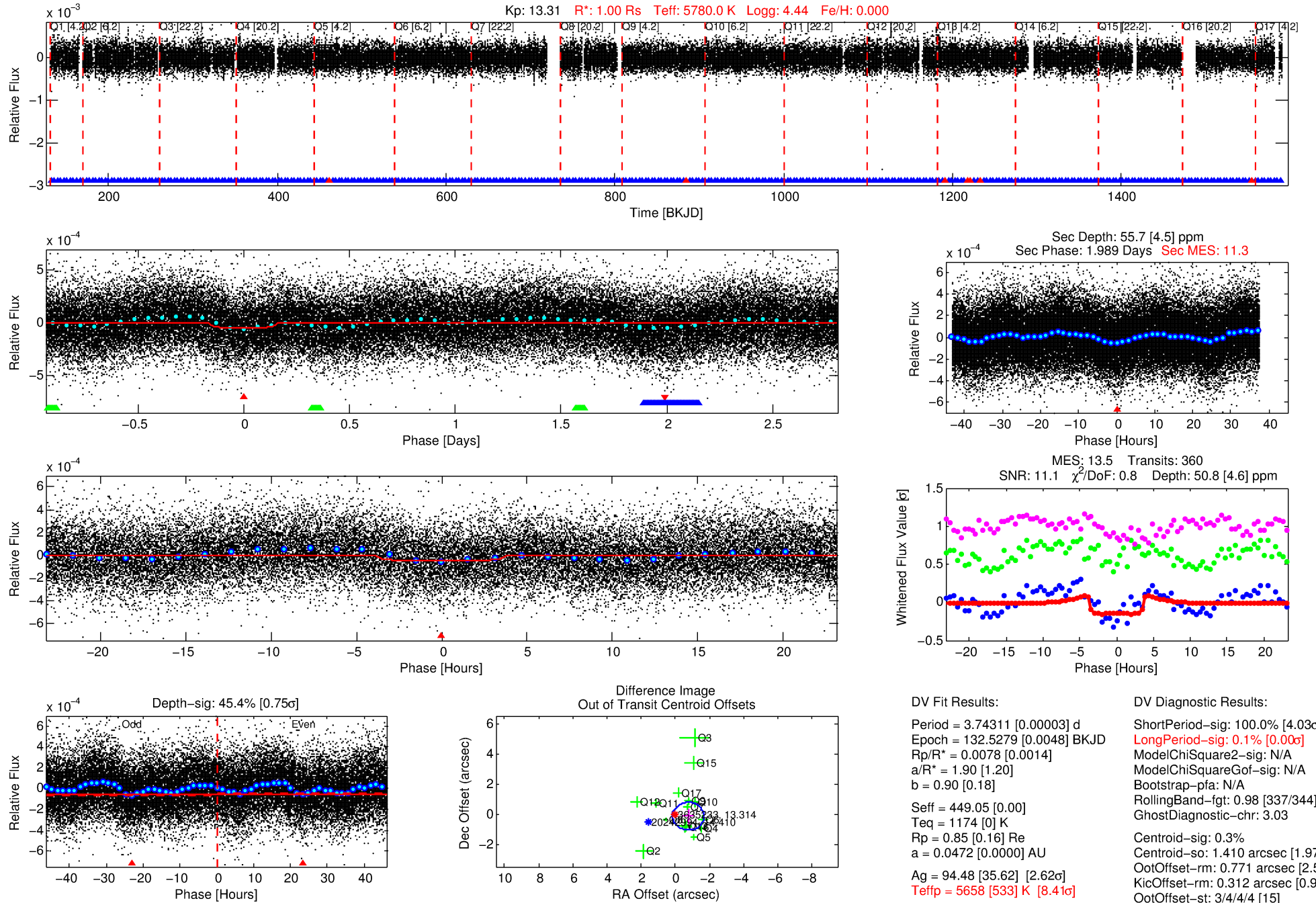
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003635233-01

No Significant Match Found

DV One-Page Summary

KIC: 3635233 Candidate: 1 of 3 Period: 3.743 d



DV Fit Results:

Period = 3.74311 [0.00003] d
Epoch = 132.5279 [0.0048] BKJD
 $R_p/R^* = 0.0078$ [0.0014]
 $a/R^* = 1.90$ [1.20]
 $b = 0.90$ [0.18]
 $\text{Seff} = 449.05$ [0.00]
 $T_{\text{eq}} = 1174$ [0] K
 $R_p = 0.85$ [0.16] R_e
 $a = 0.0472$ [0.0000] AU
 $A_g = 94.48$ [35.62] [2.62 σ]
 $T_{\text{eff}} = 5658$ [533] K [8.41 σ]

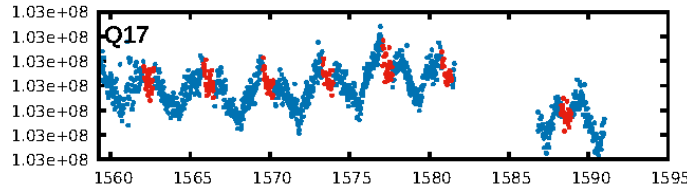
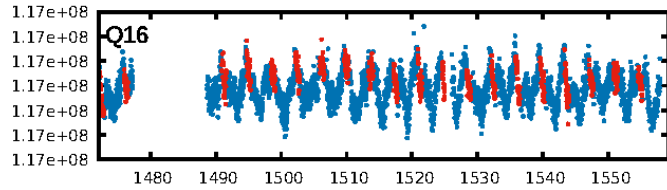
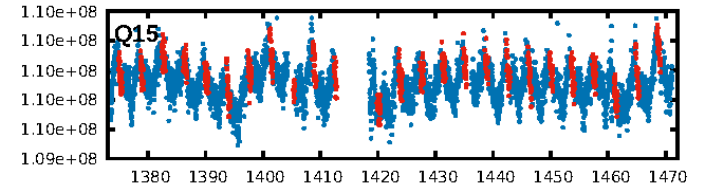
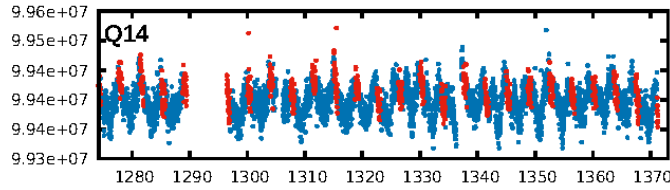
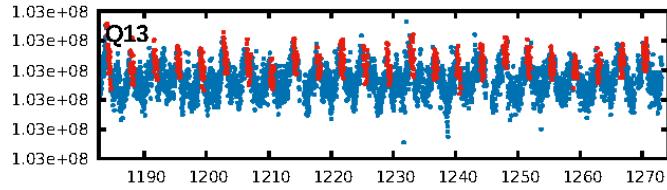
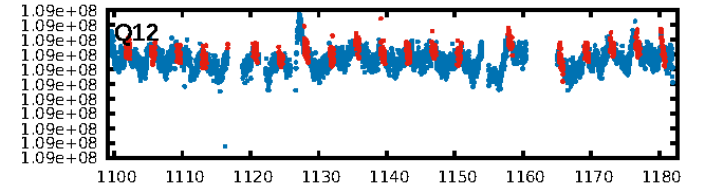
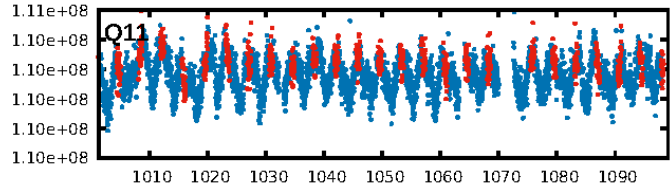
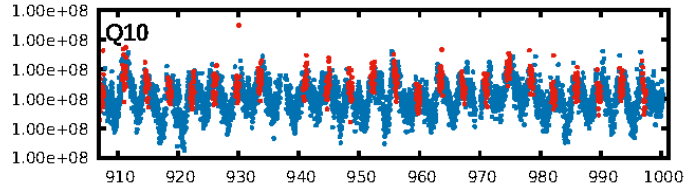
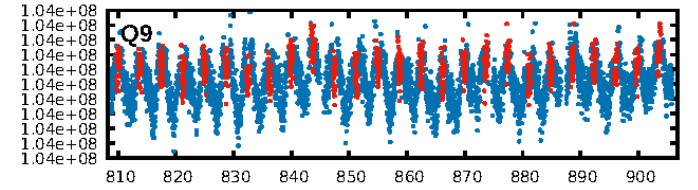
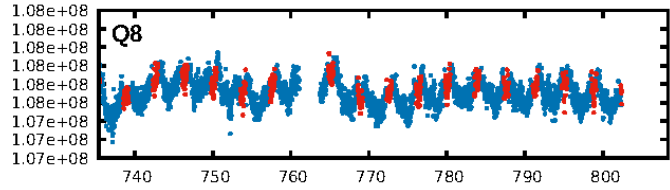
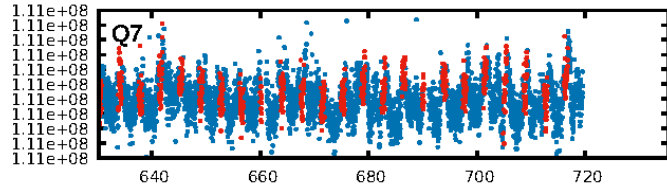
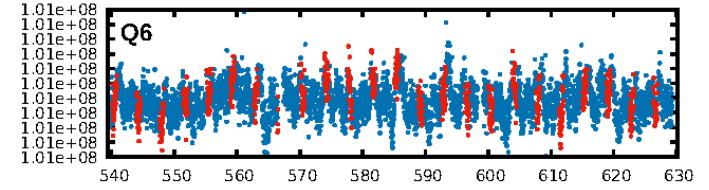
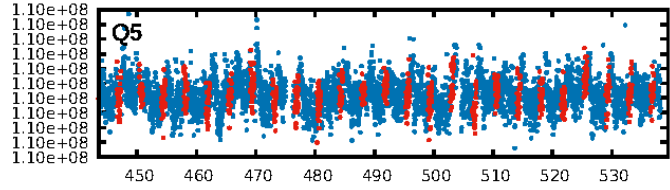
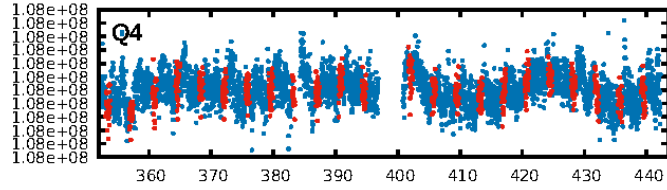
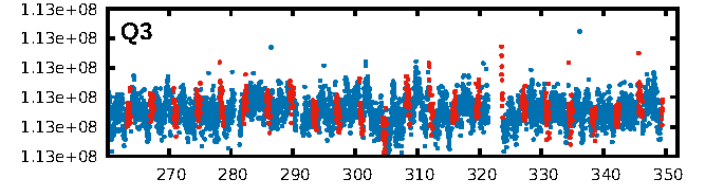
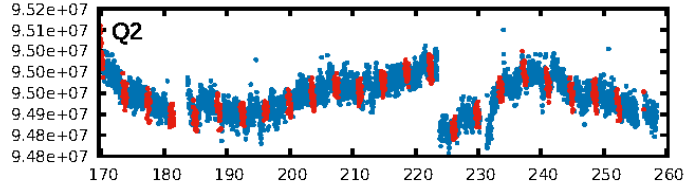
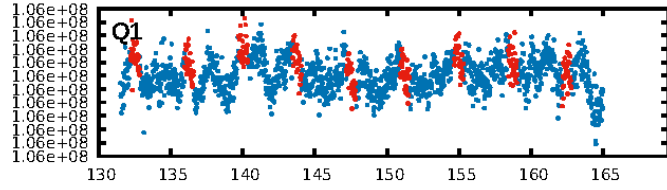
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [4.03 σ]
LongPeriod-sig: 0.1% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [337/344]
GhostDiagnostic-chr: 3.03
Centroid-sig: 0.3%
Centroid-so: 1.410 arcsec [1.97 σ]
OotOffset-rm: 0.771 arcsec [2.50 σ]
OotOffset-st: 3/4/4/4 [15]
KicOffset-rm: 0.312 arcsec [0.91 σ]
KicOffset-st: 3/4/4/4 [15]
DiffImageQuality-fgm: 0.67 [10/15]
DiffImageOverlap-fno: 0.00 [0/17]

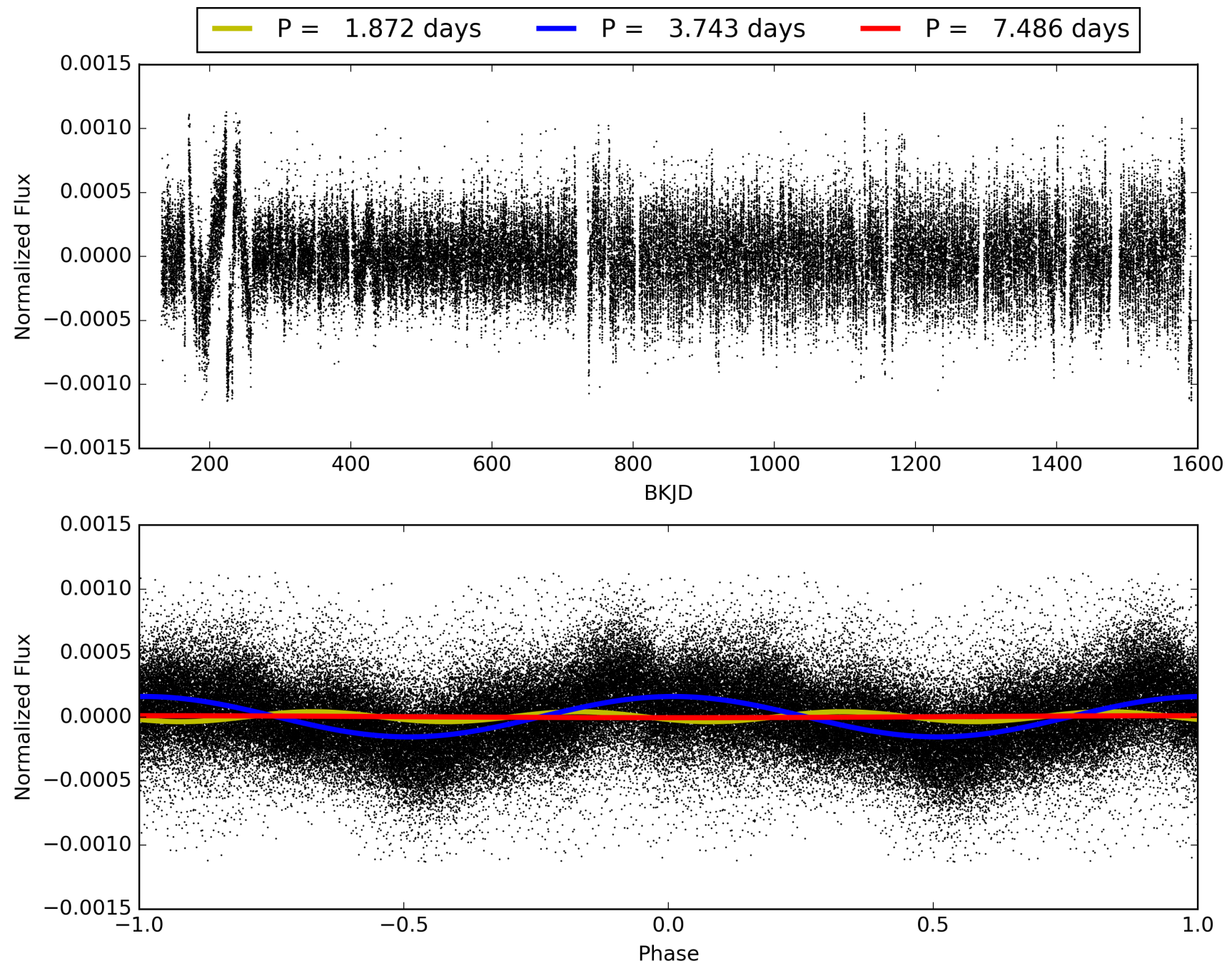
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 04:19:56 Z

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

TCE 003635233-01, PDC Light Curves

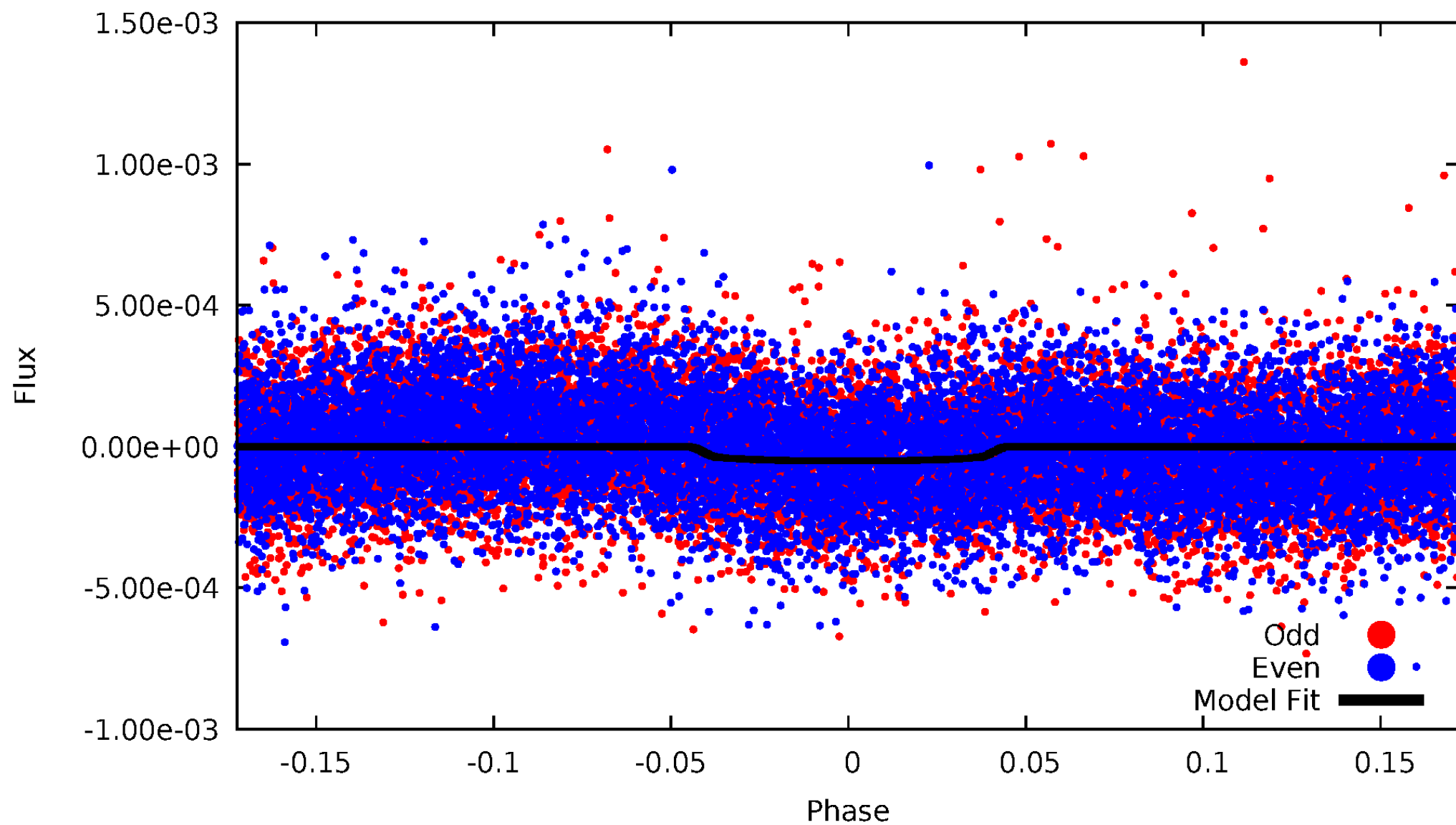


TCE 003635233-01



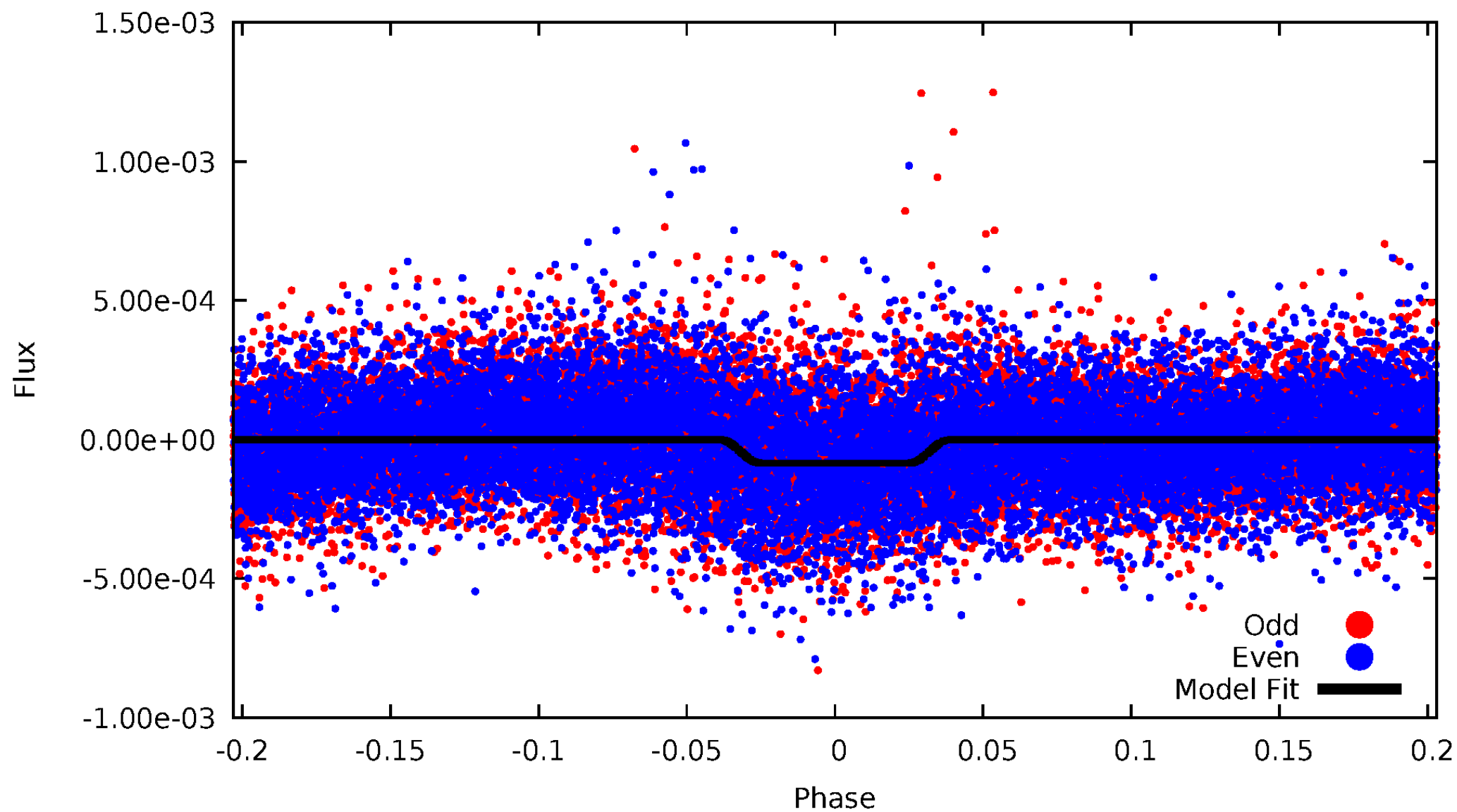
DV Odd/Even

TCE 003635233-01

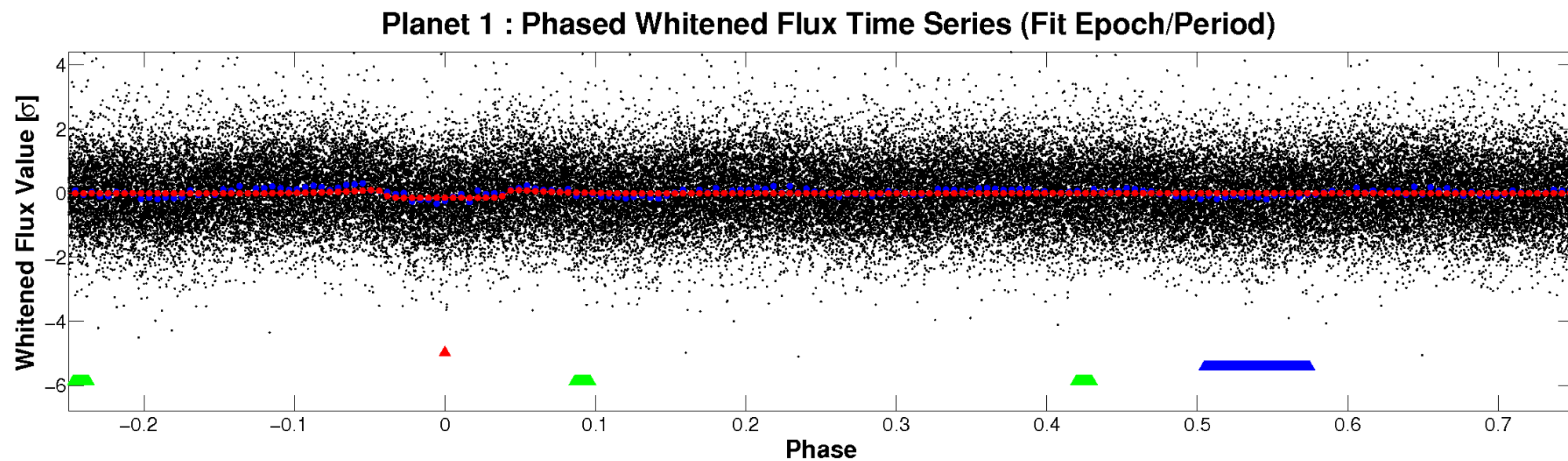
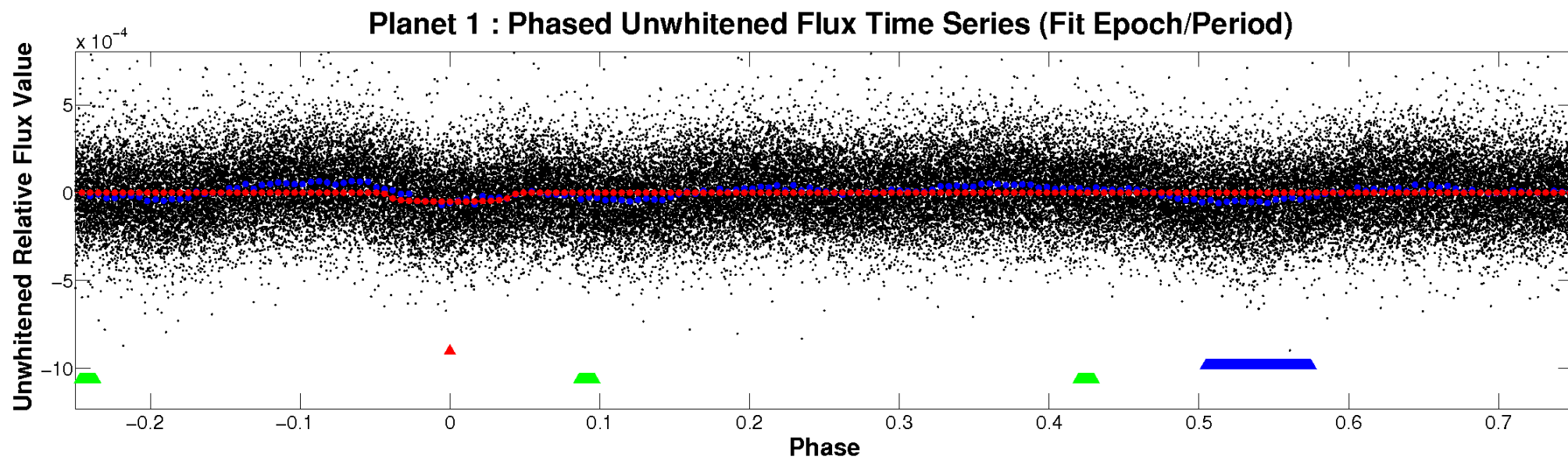


ALT Odd/Even

TCE 003635233-01

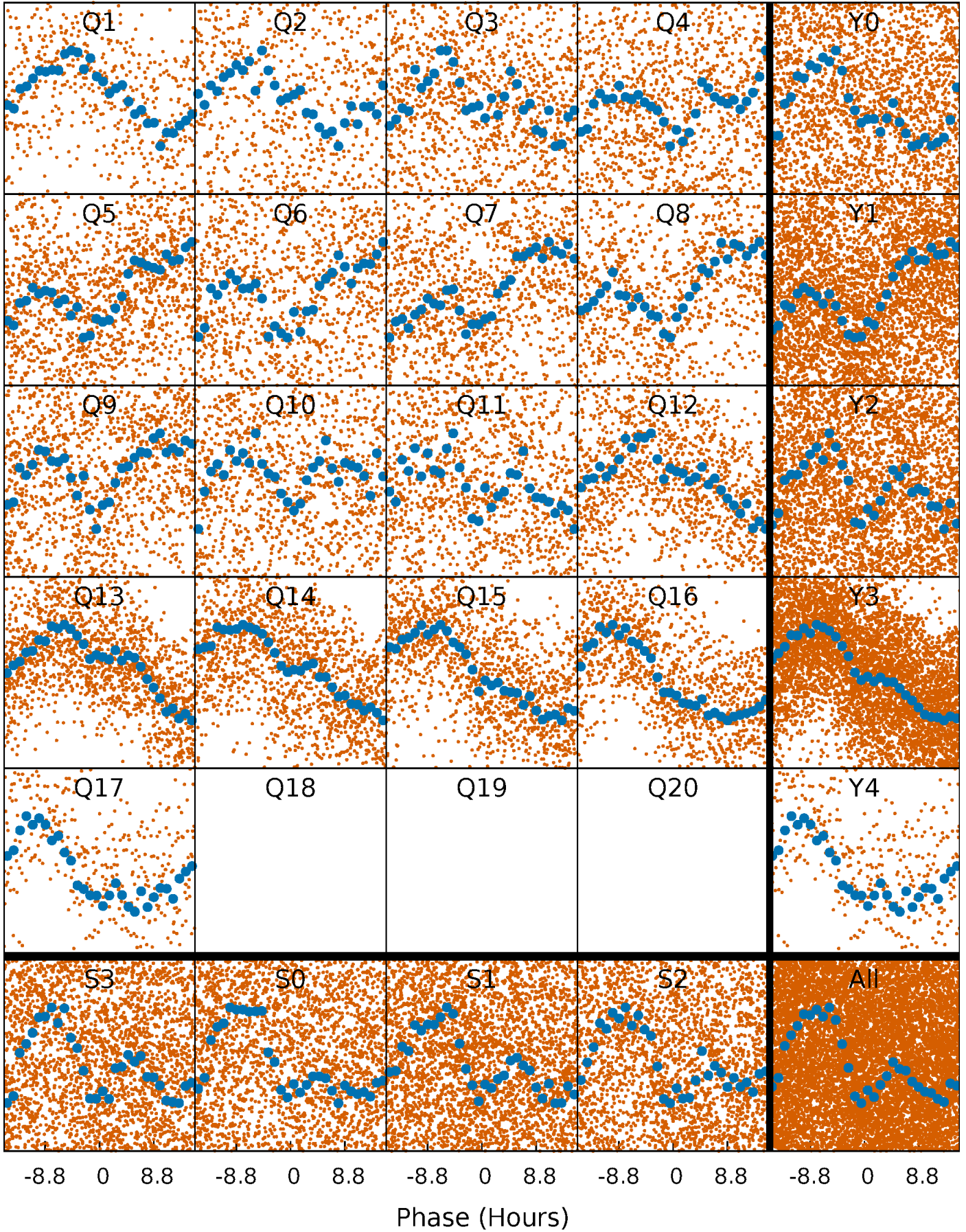


Non-Whitened Vs. Whitened Light Curve



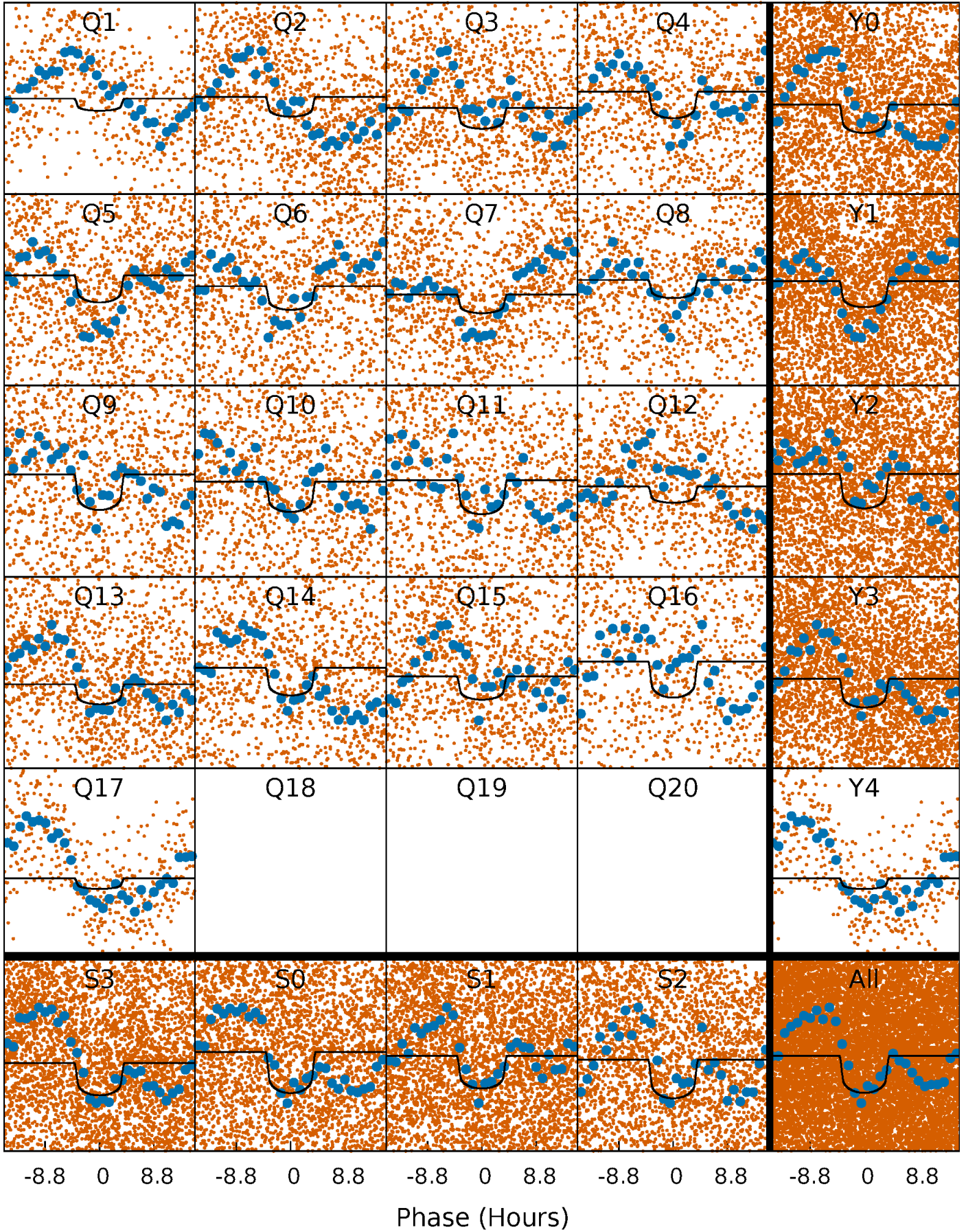
PDC Quarter-Phased Transit Curves

TCE 003635233-01 P= 3.743115 Days $T_0=132.527895$ (BKJD)



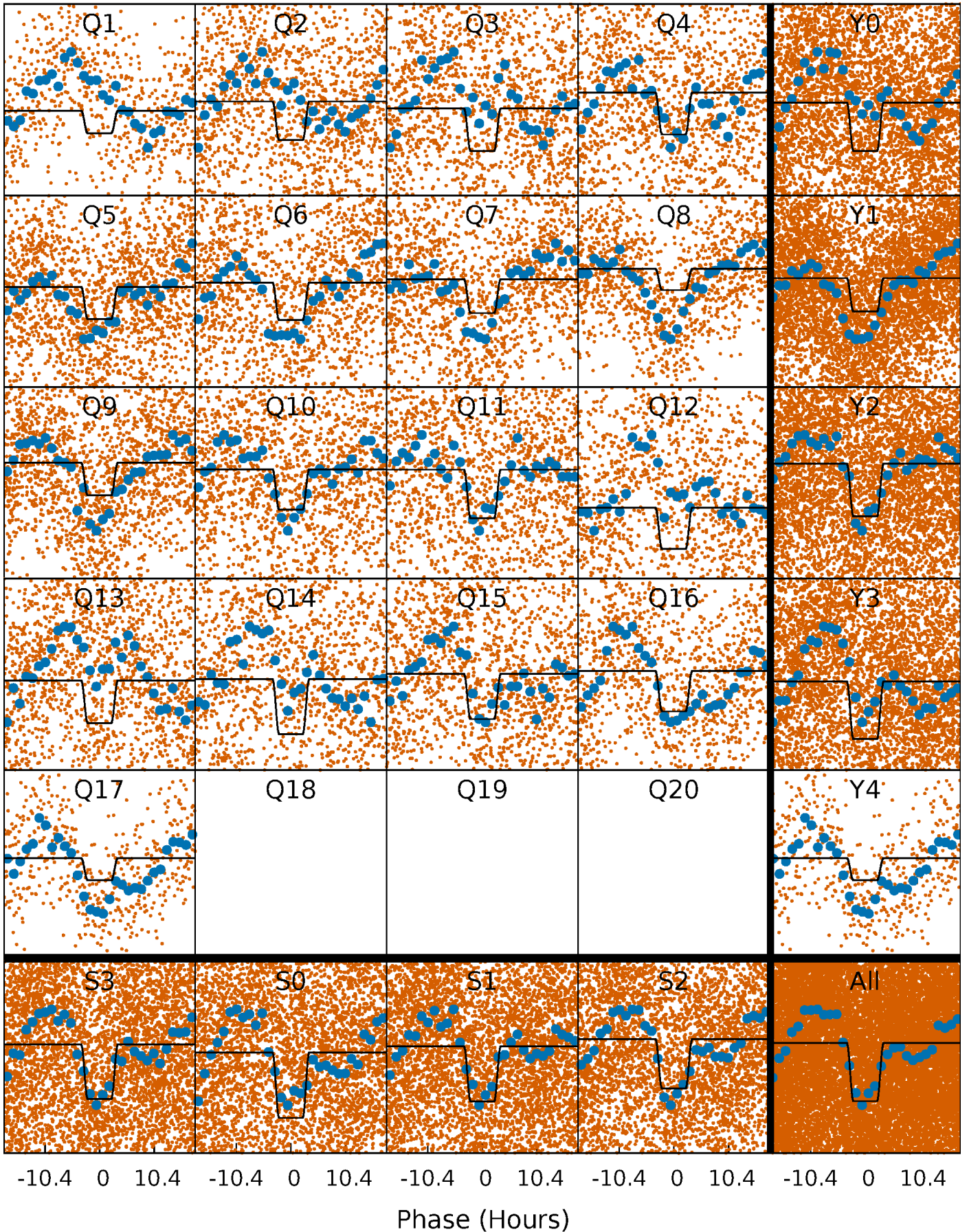
DV Quarter-Phased Transit Curves

TCE 003635233-01 P= 3.743115 Days $T_0=132.527895$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

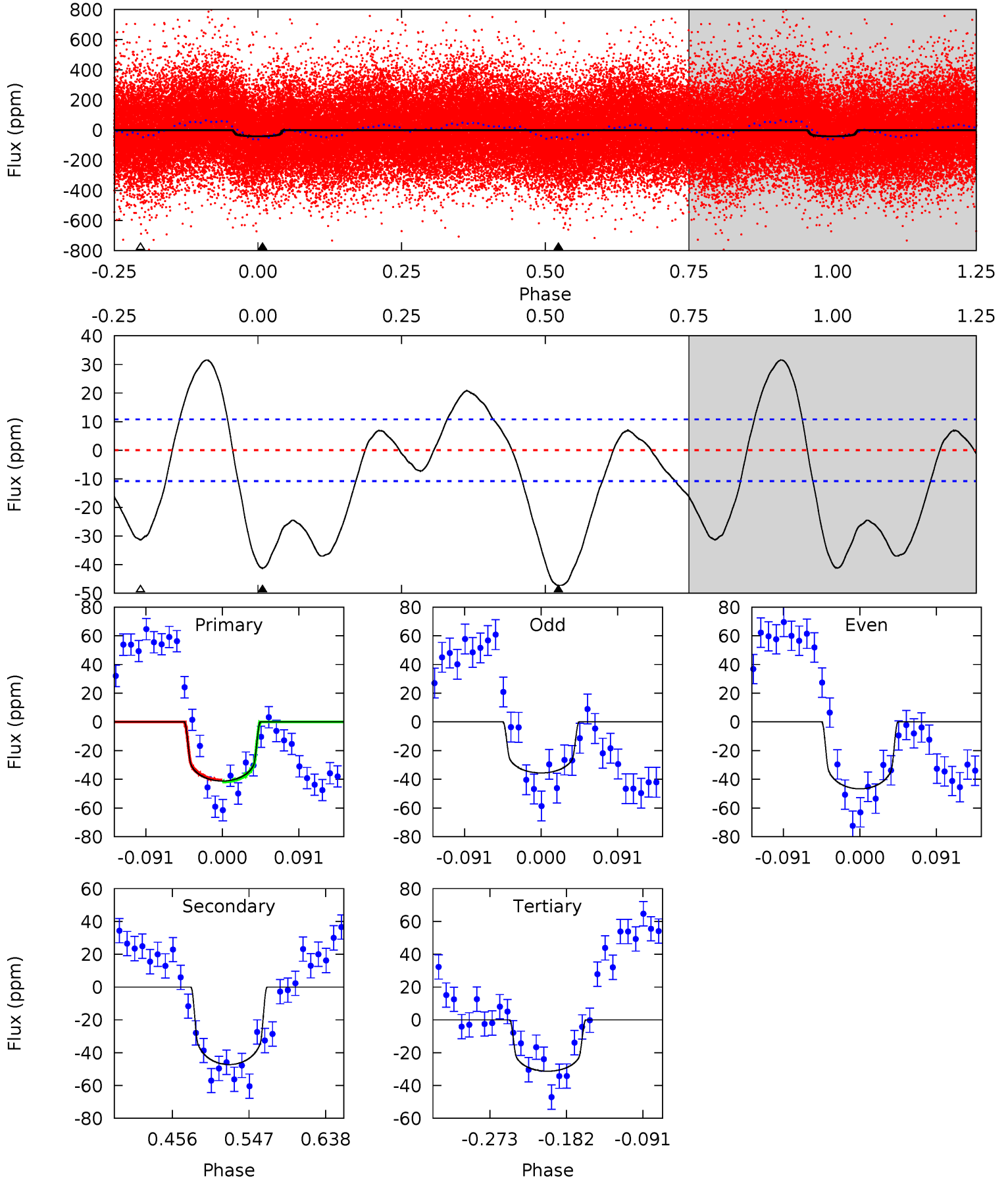
TCE 003635233-01 P= 3.742969 Days $T_0=132.565631$ (BKJD)



DV Model-Shift Uniqueness Test

003635233-01, P = 3.743115 Days, E = 128.784780 Days

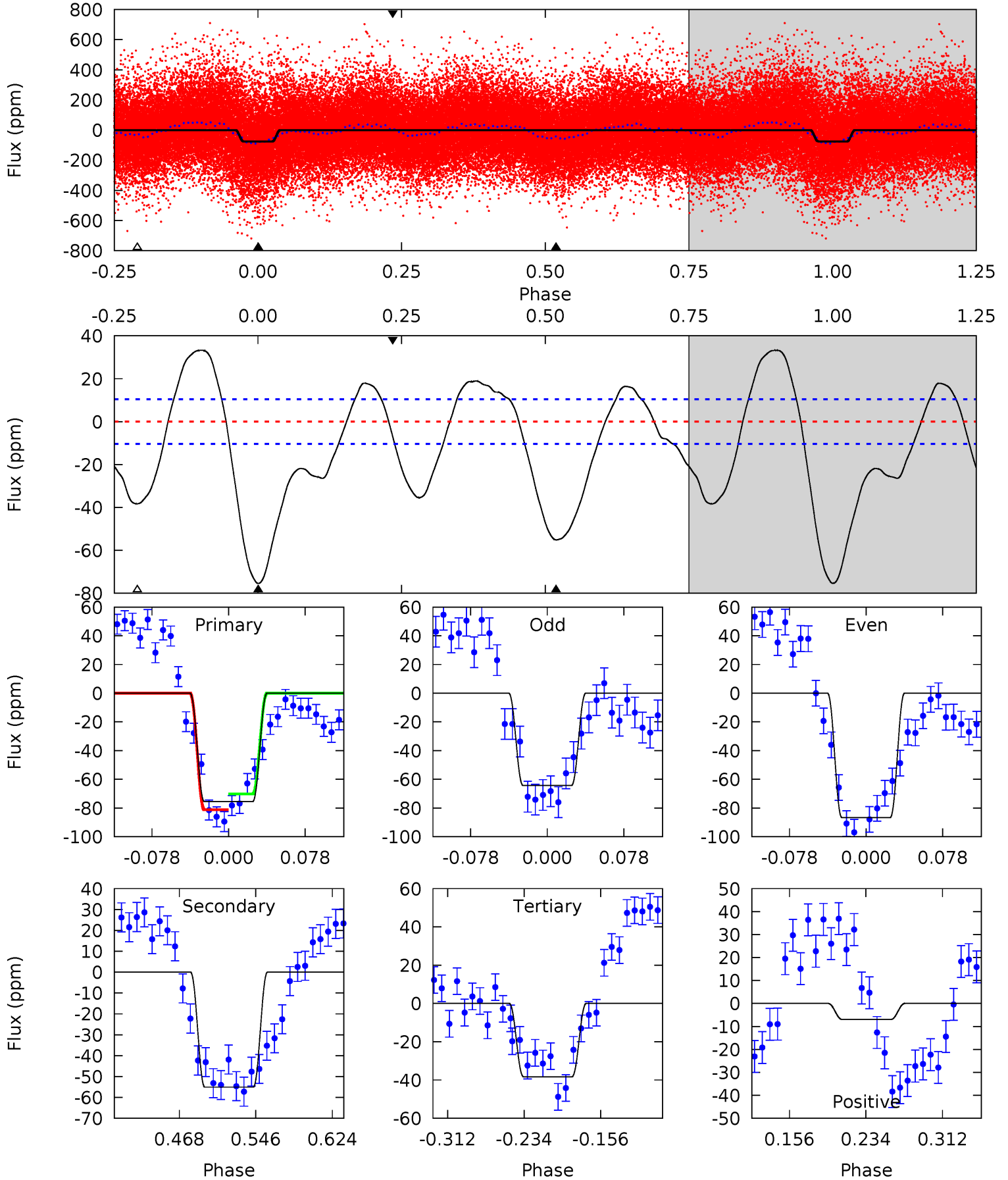
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.5	20.0	13.3	0	4.58	1.69	7.32	4.20	17.5	6.76	20.0	2.35	1.00	0.40	0.27



Alt Model-Shift Uniqueness Test

003635233-01, P = 3.742969 Days, E = 128.822662 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.5	24.5	17.0	-3.11	4.62	1.76	9.04	16.5	36.6	7.46	27.6	4.96	1.02	0.31	2.44



Stellar Parameters For KIC 003635233

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

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

Secondary Eclipse Parameters for KIC 003635233-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-47 ± 2	$0.86^{+0.17}_{-0.17}$	1642^{+73}_{-73}	5427^{+560}_{-437}	79^{+41}_{-25}
Alt.	-55 ± 2	$1.00^{+0.18}_{-0.16}$	1641^{+75}_{-69}	5218^{+455}_{-340}	67^{+26}_{-20}

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

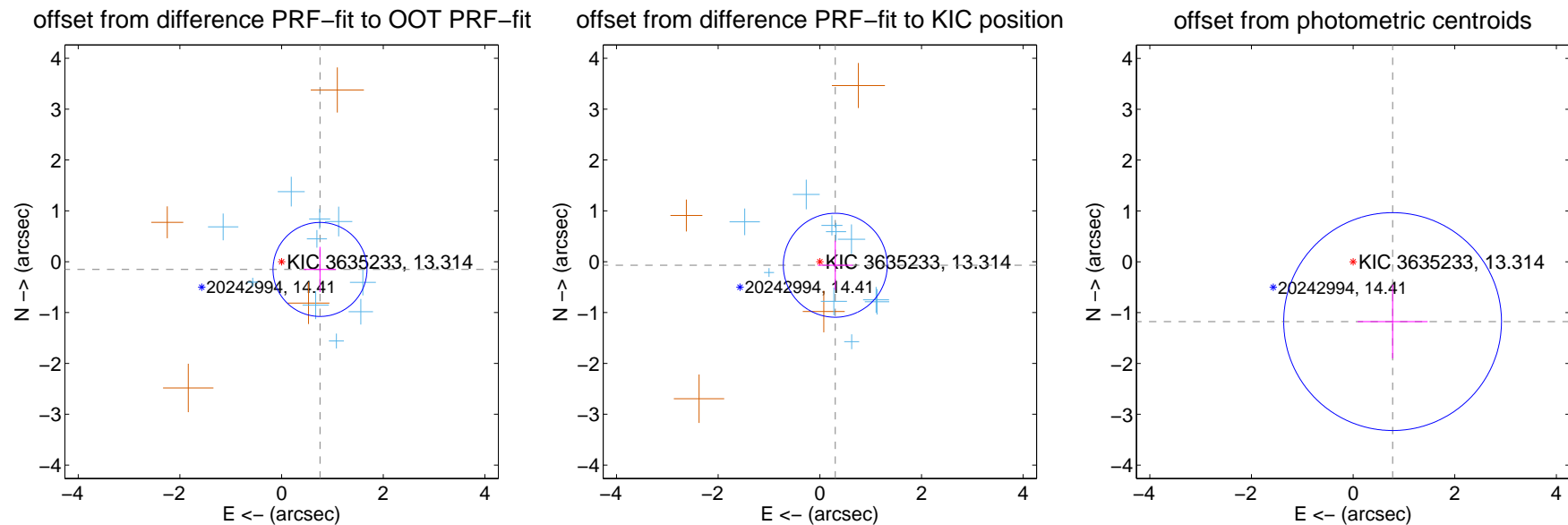
DV Centroid Data

Supplemental centroid analysis for 003635233-01. Kepler magnitude: 13.31. Transit SNR 11.08

There are 10 quarters with good PRF difference image offsets

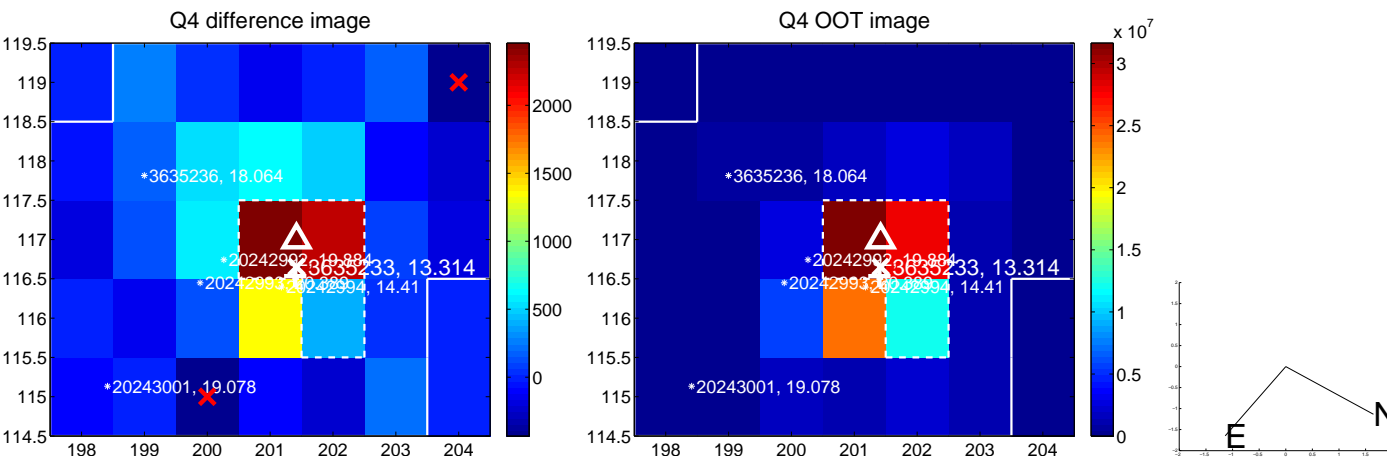
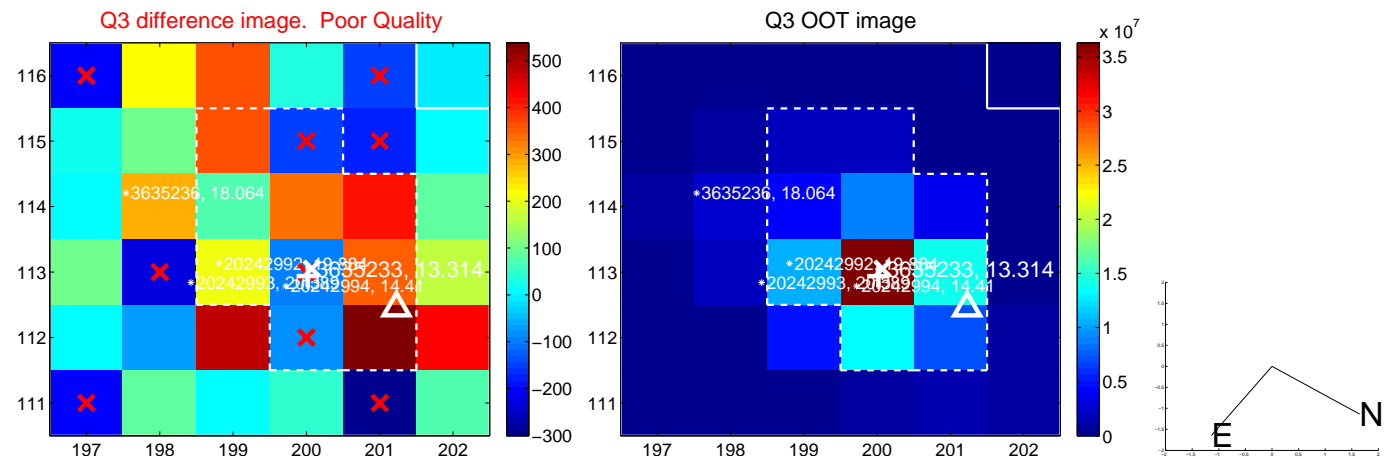
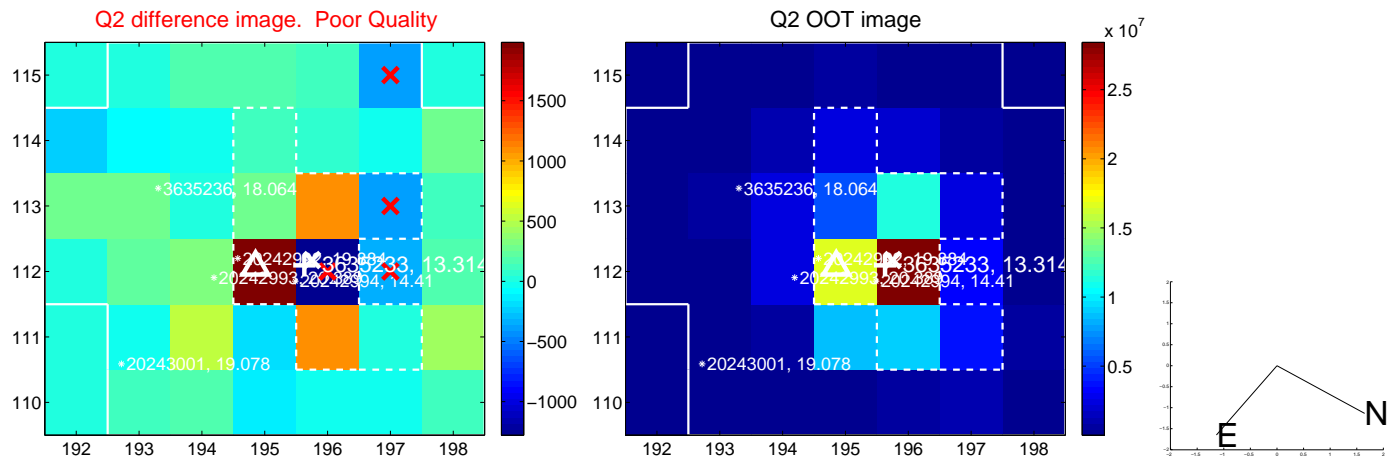
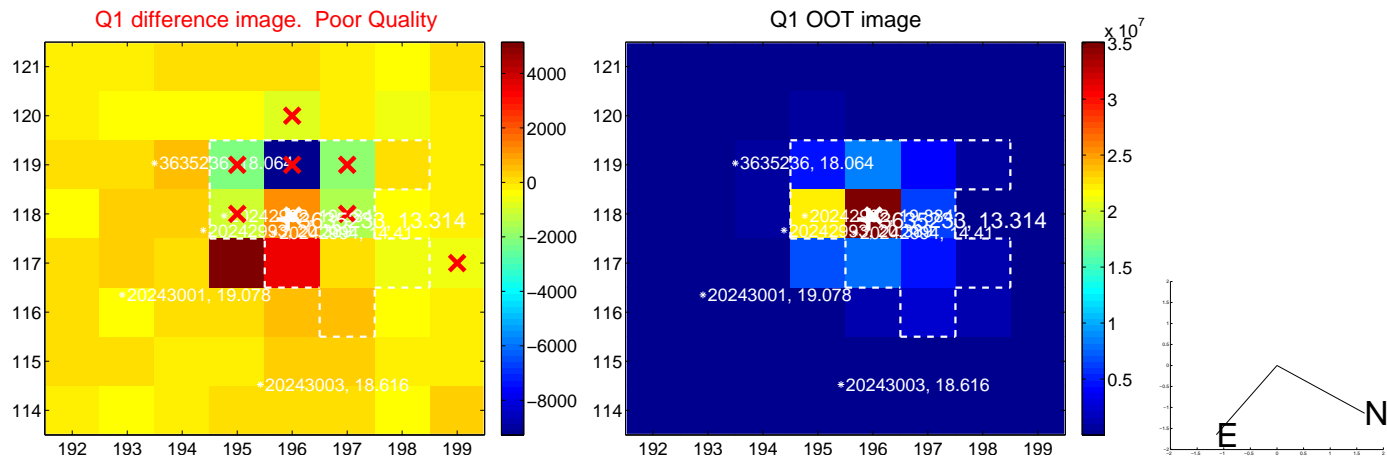
The direct PRF centroid is offset from the target star catalog position by about 0.46 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.771 ± 0.308	2.50	-0.756 ± 0.314	-0.152 ± 0.444
PRF-fit source offset from KIC position	0.312 ± 0.341	0.91	-0.304 ± 0.344	-0.070 ± 0.483
photometric centroid source offset	1.41 ± 0.71	1.97	-0.78 ± 0.69	-1.18 ± 0.72

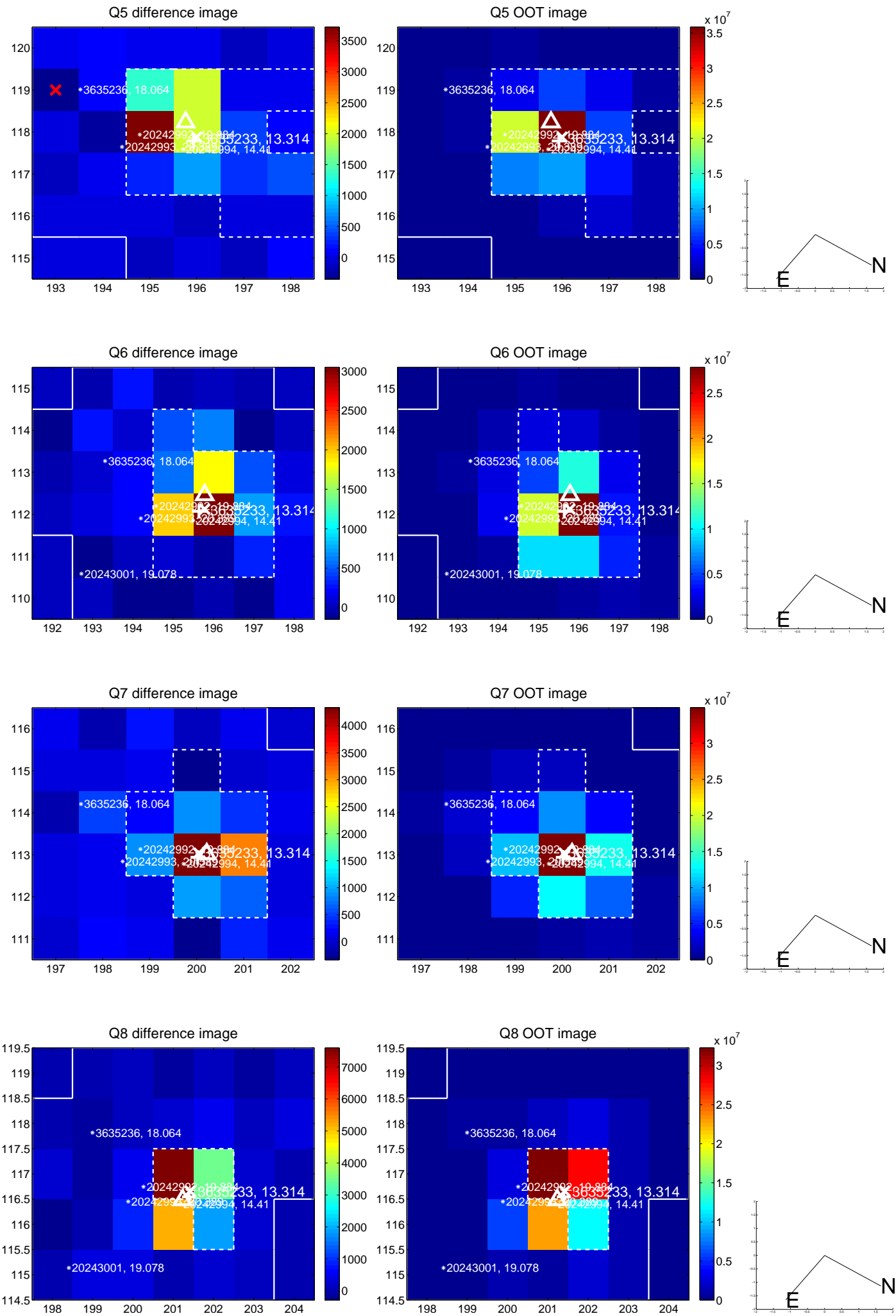


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

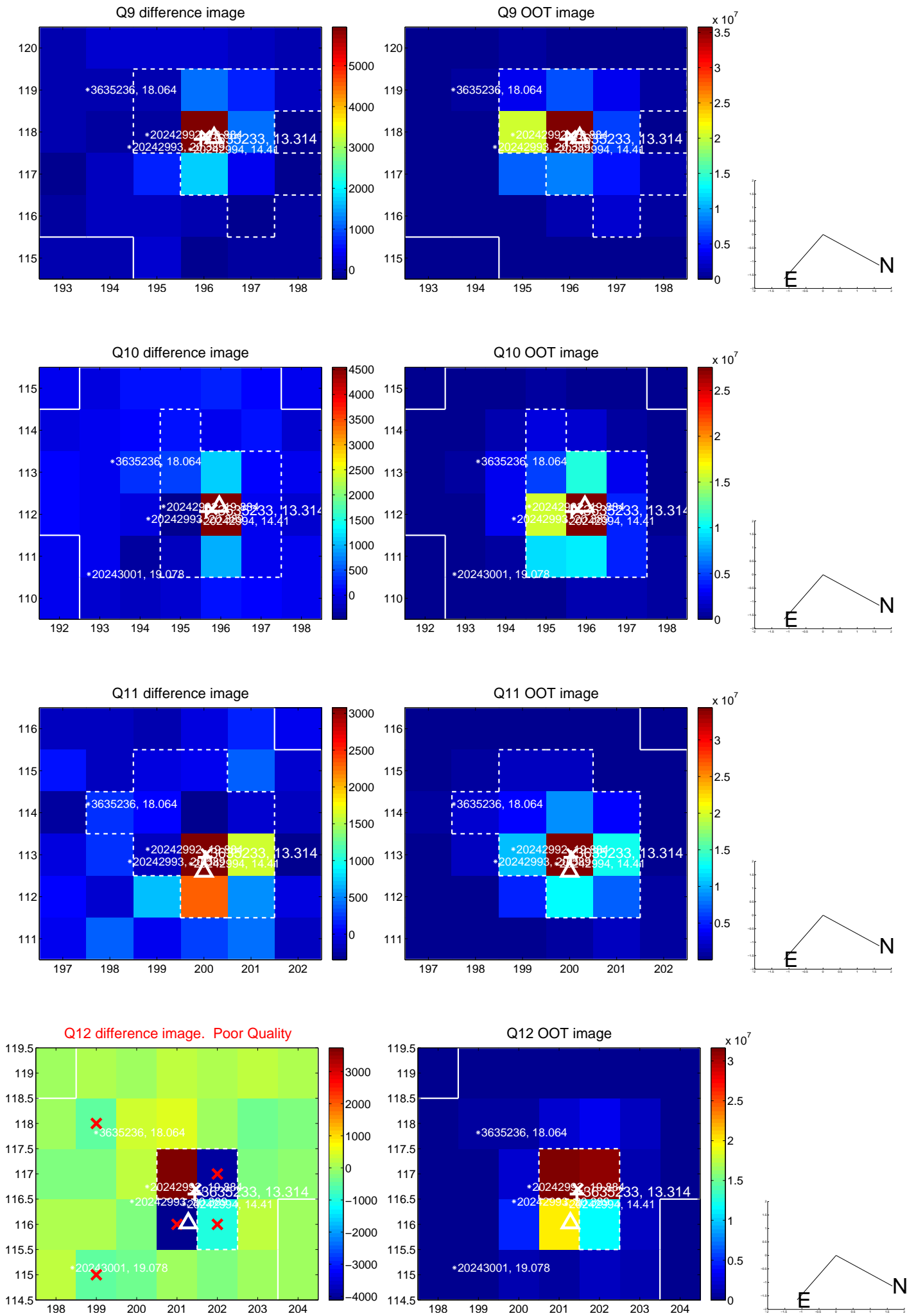
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



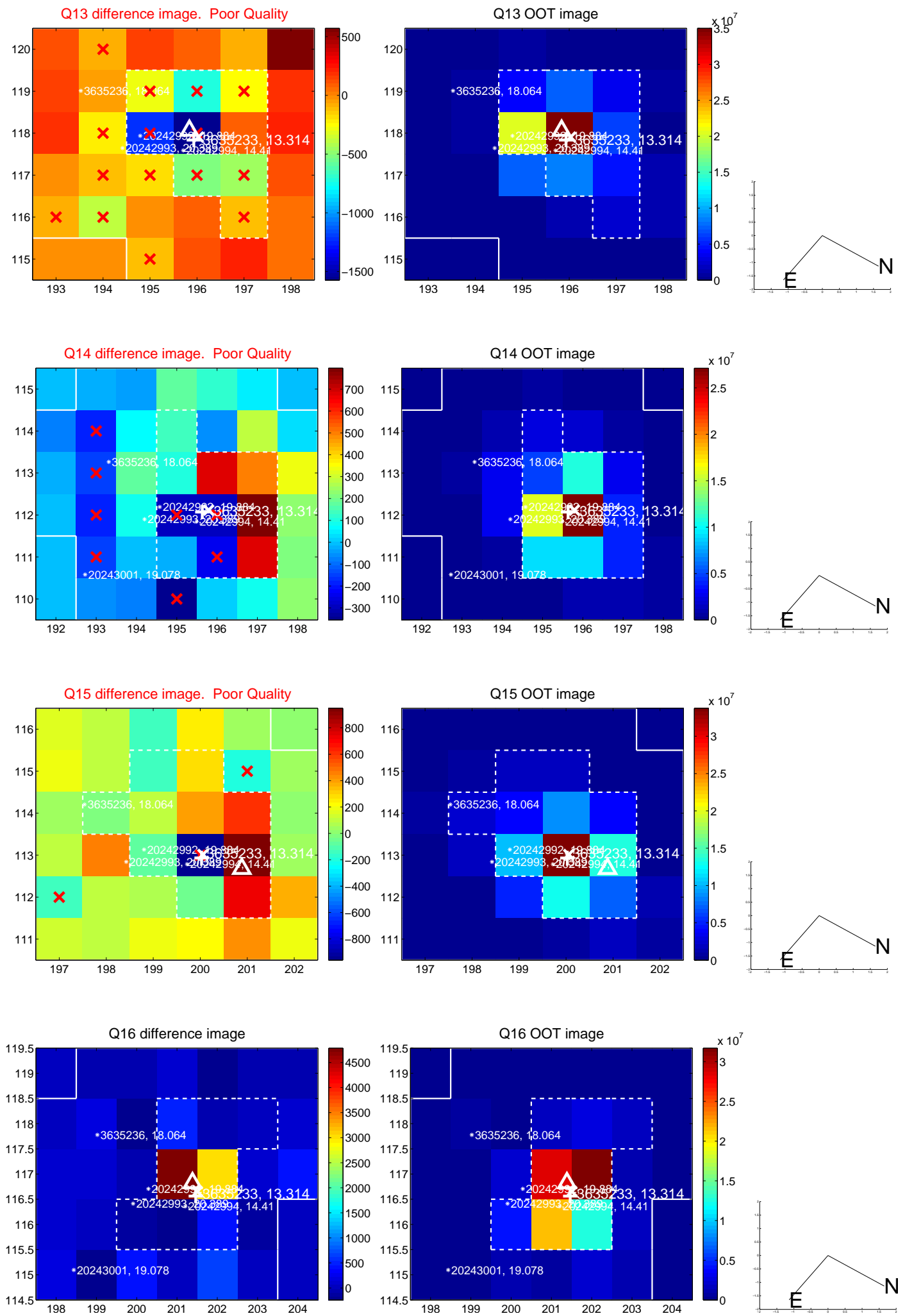
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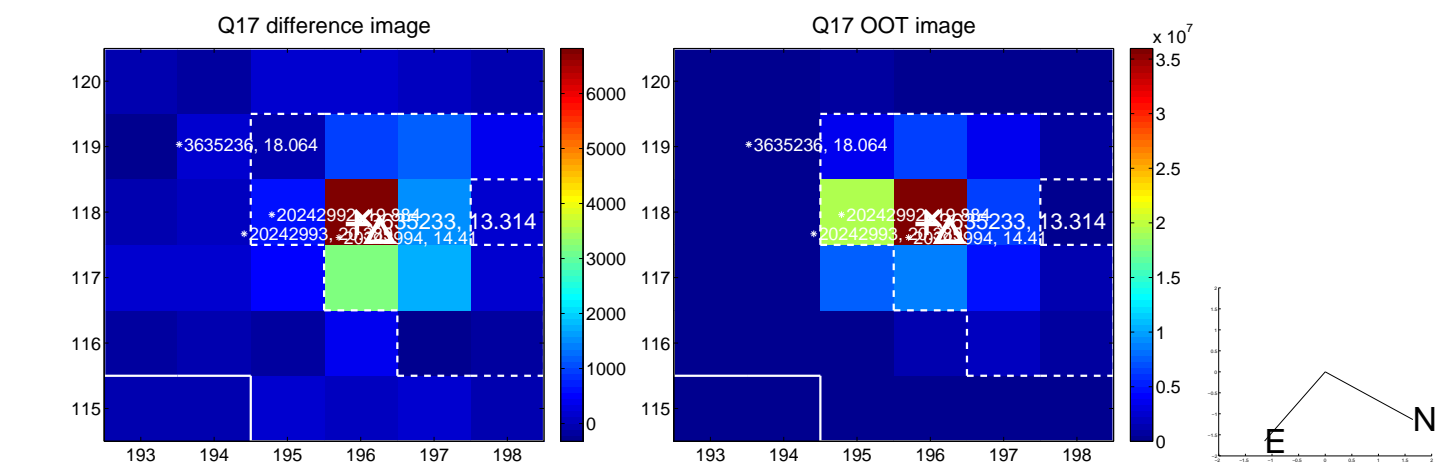
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



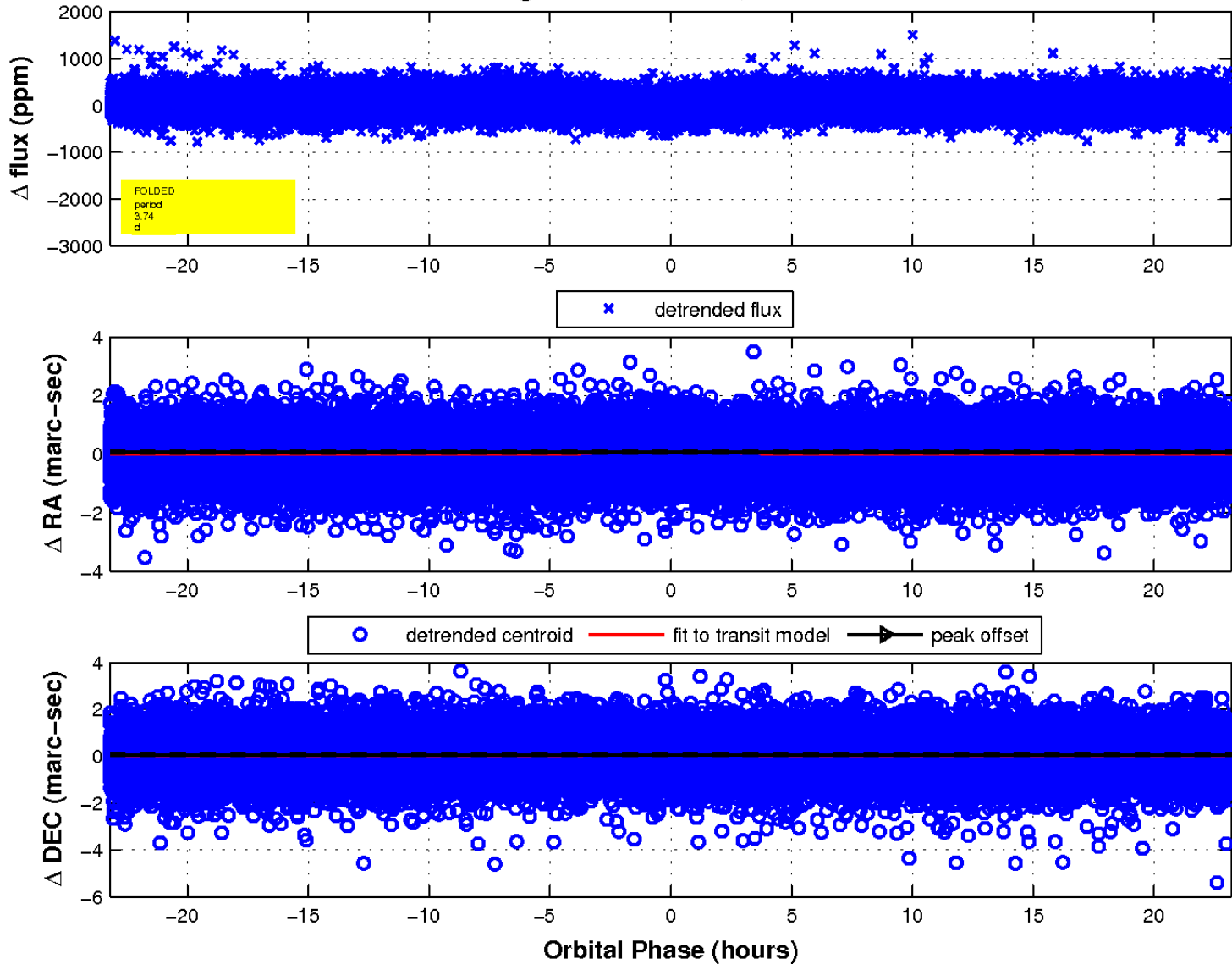
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

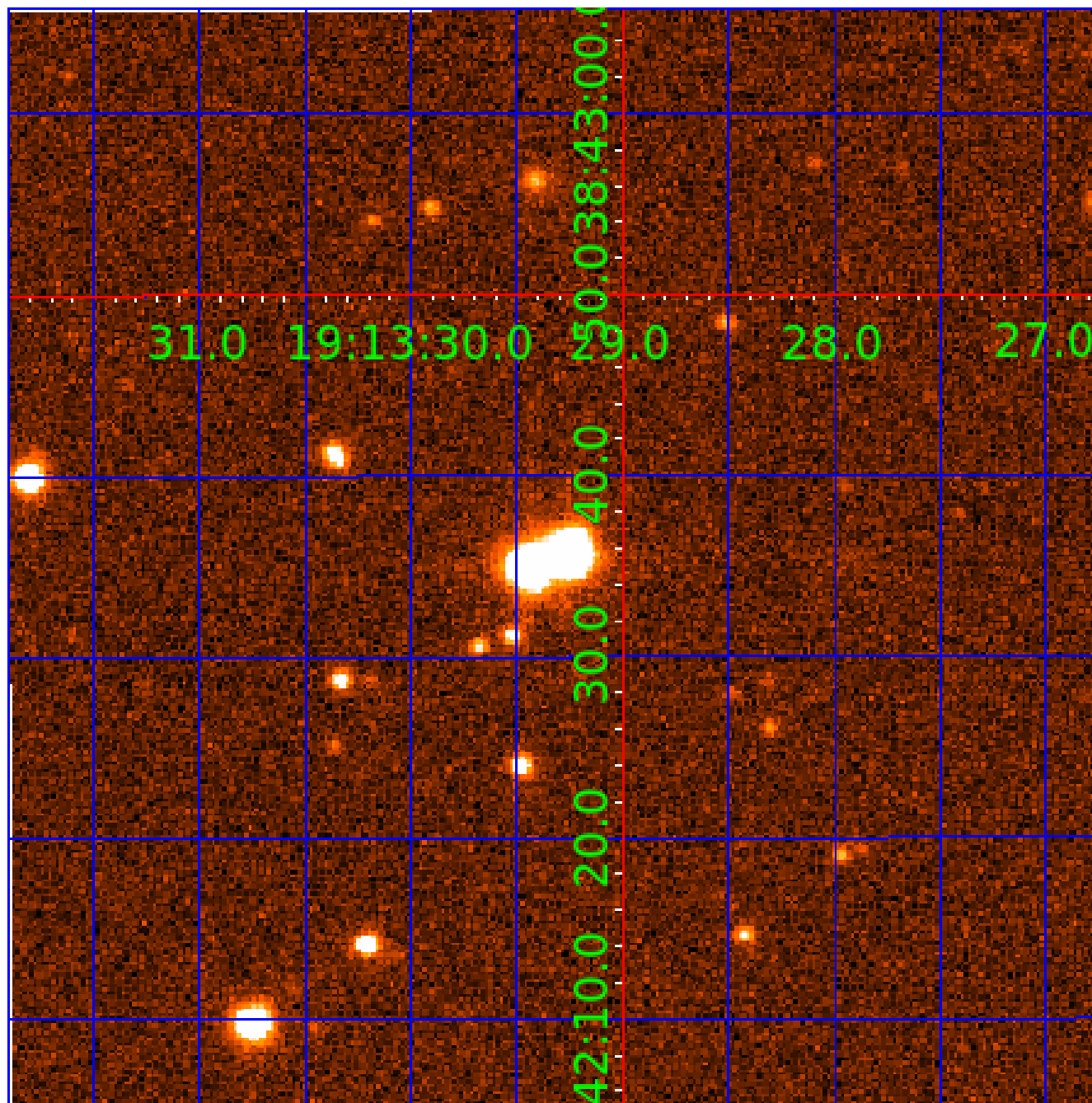


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 003635233

Q1-17 DR25 TCE Parameters

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Robovetter Results

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003635233-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_KIC_POS
003635233-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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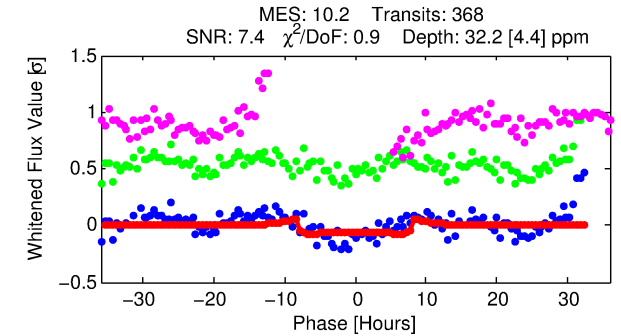
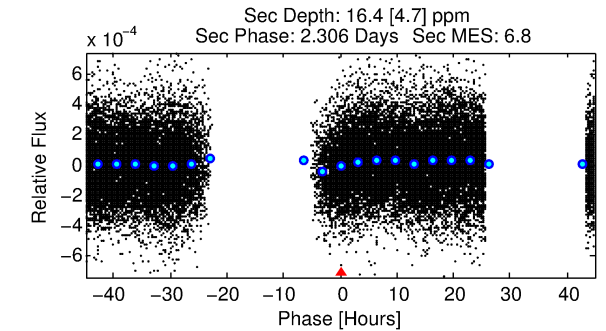
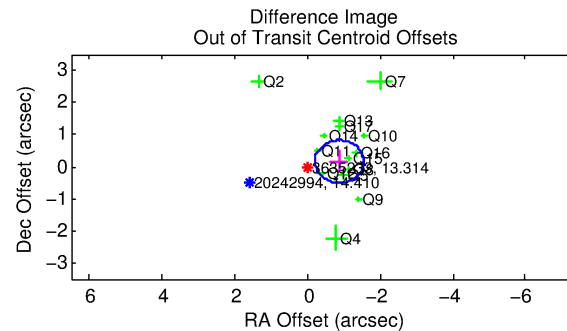
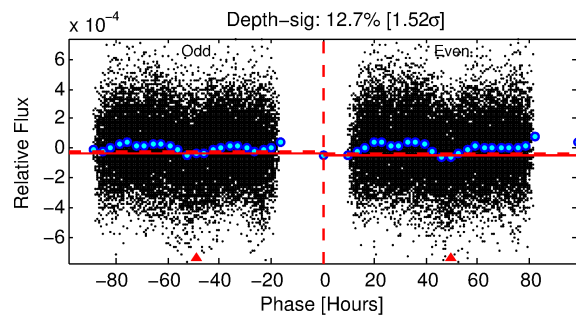
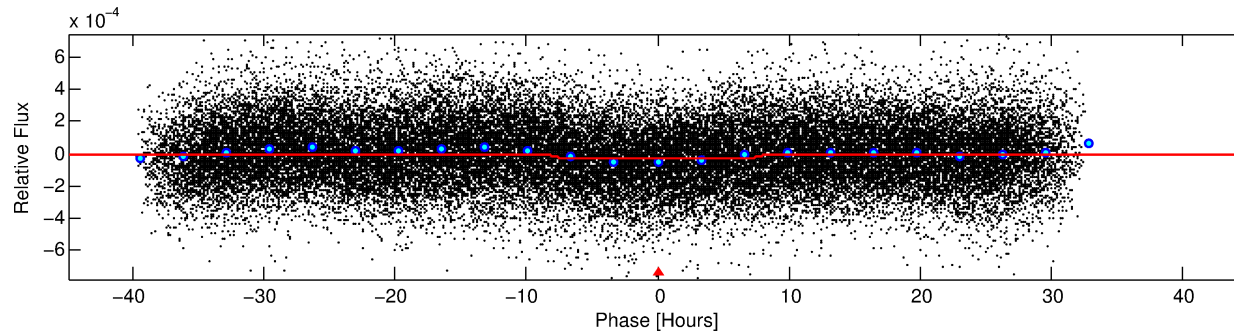
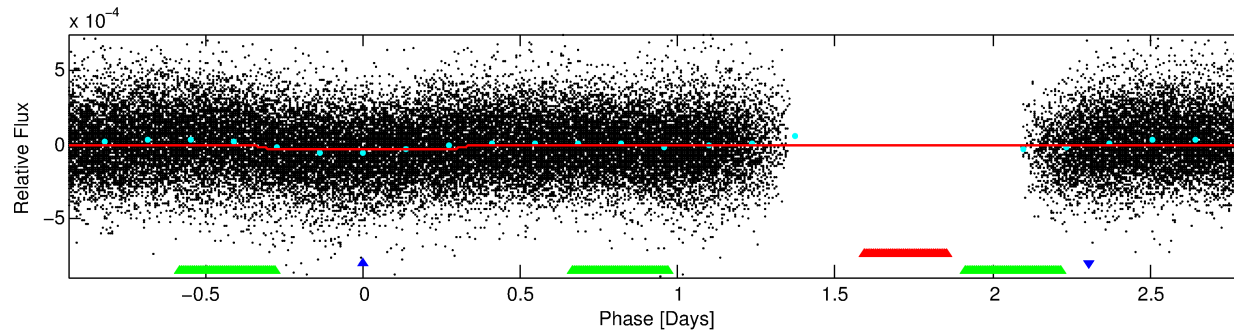
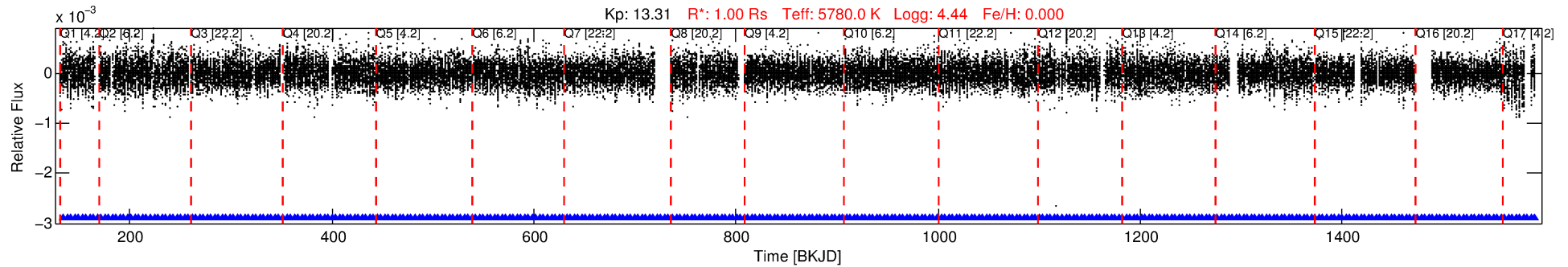
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003635233-02

No Significant Match Found

DV One-Page Summary

KIC: 3635233 Candidate: 2 of 3 Period: 3.744 d



DV Fit Results:

Period = 3.74379 [0.00005] d
Epoch = 134.4172 [0.0090] BKJD
 $R_p/R^* = 0.0058$ [0.0014]
 $a/R^* = 1.37$ [0.69]
 $b = 0.81$ [0.47]
 $\text{Seff} = 448.94$ [0.01]
 $T_{\text{eq}} = 1174$ [0] K
 $R_p = 0.63$ [0.15] R_e
 $a = 0.0472$ [0.0000] AU
 $A_g = 50.29$ [28.19] [1.75 σ]
 $T_{\text{eff}} = 4833$ [677] K [5.40 σ]

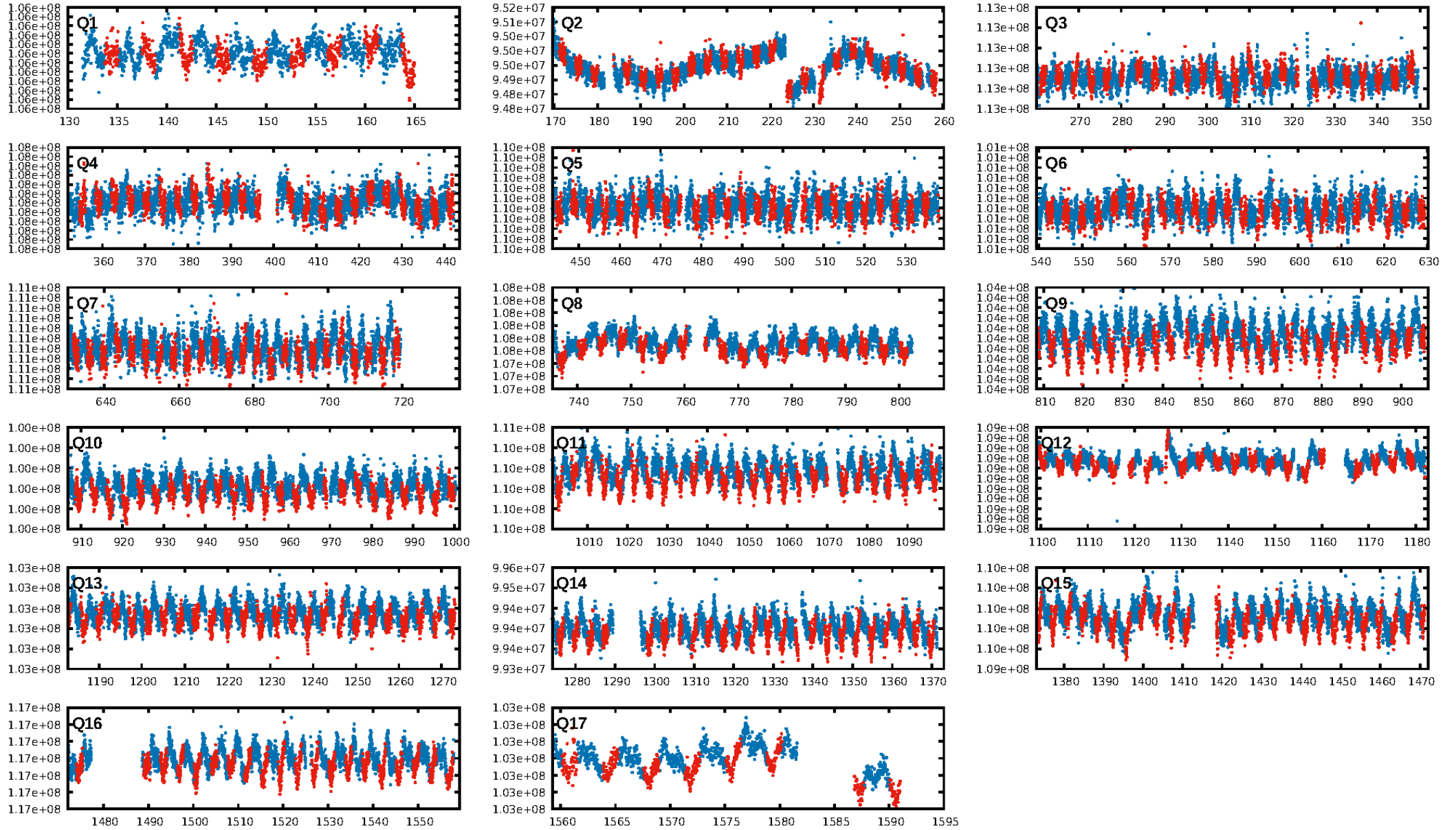
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [351/351]
GhostDiagnostic-chr: 1.599
Centroid-sig: 0.0%
Centroid-so: 4.582 arcsec [5.18 σ]
OotOffset-rm: 0.892 arcsec [4.02 σ]
KicOffset-rm: 0.522 arcsec [2.26 σ]
OotOffset-st: 3/3/4/4 [14]
KicOffset-st: 3/3/4/4 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 0.00 [0/17]

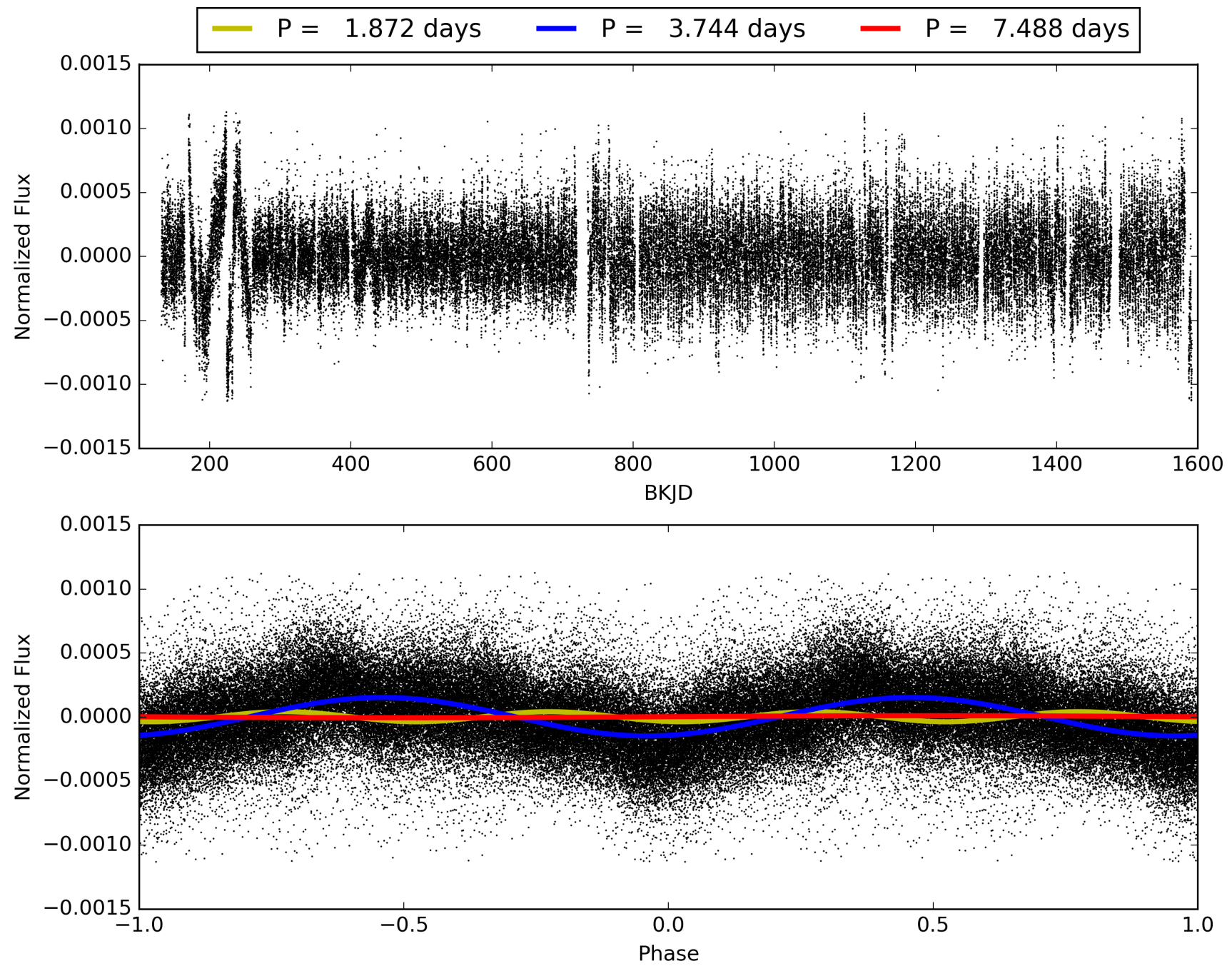
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 04:20:07 Z

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

TCE 003635233-02, PDC Light Curves

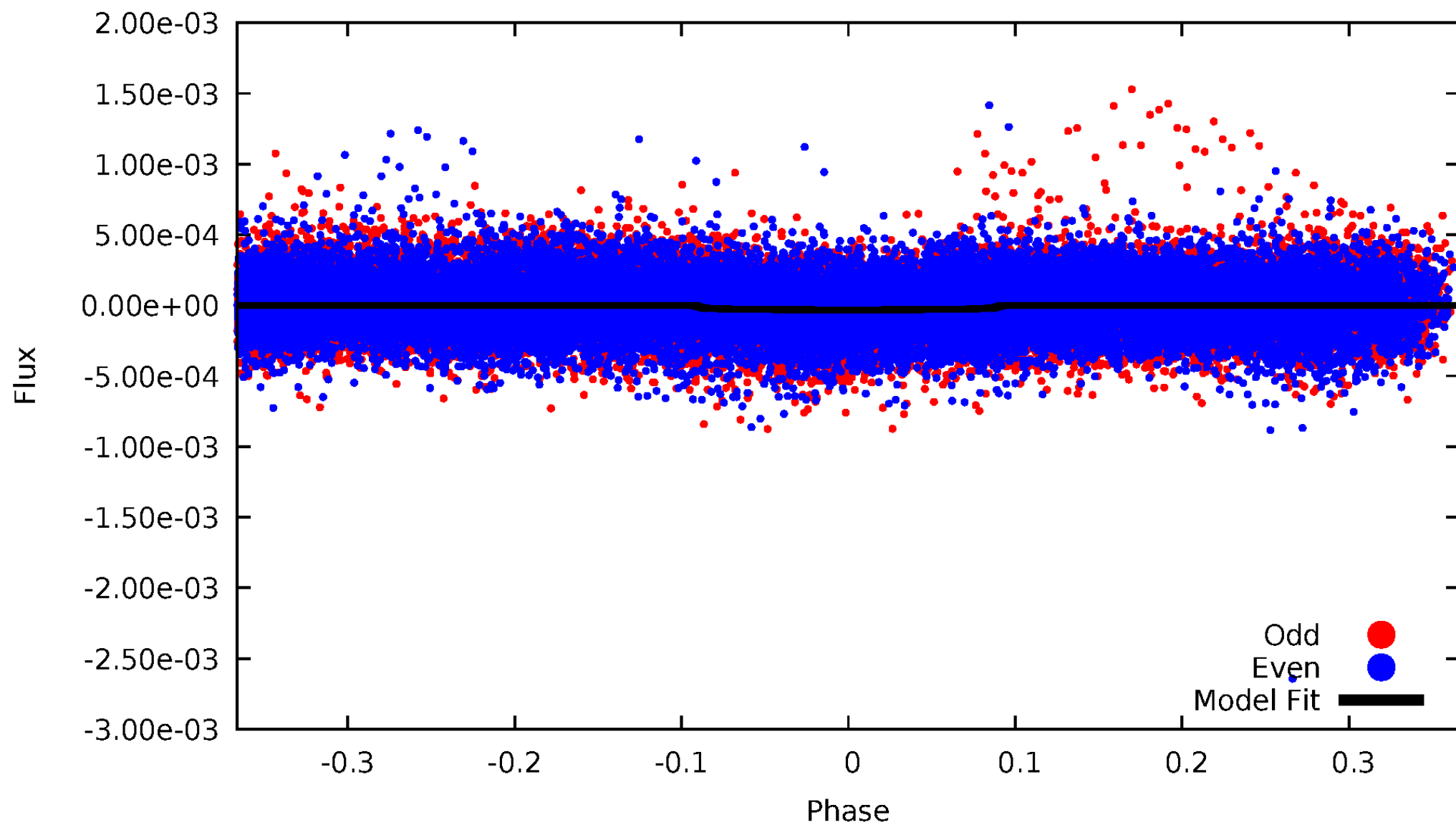


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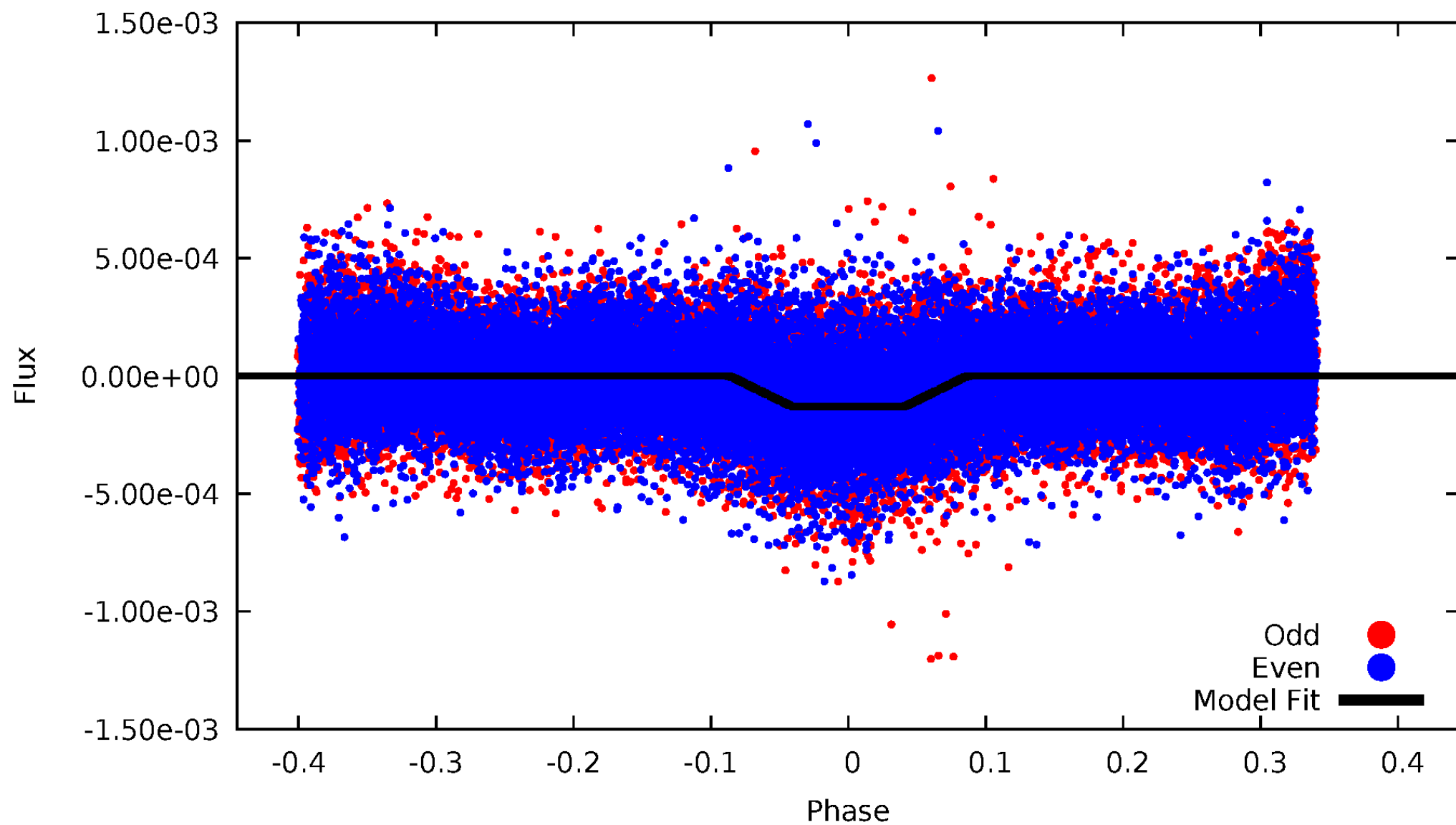
DV Odd/Even

TCE 003635233-02



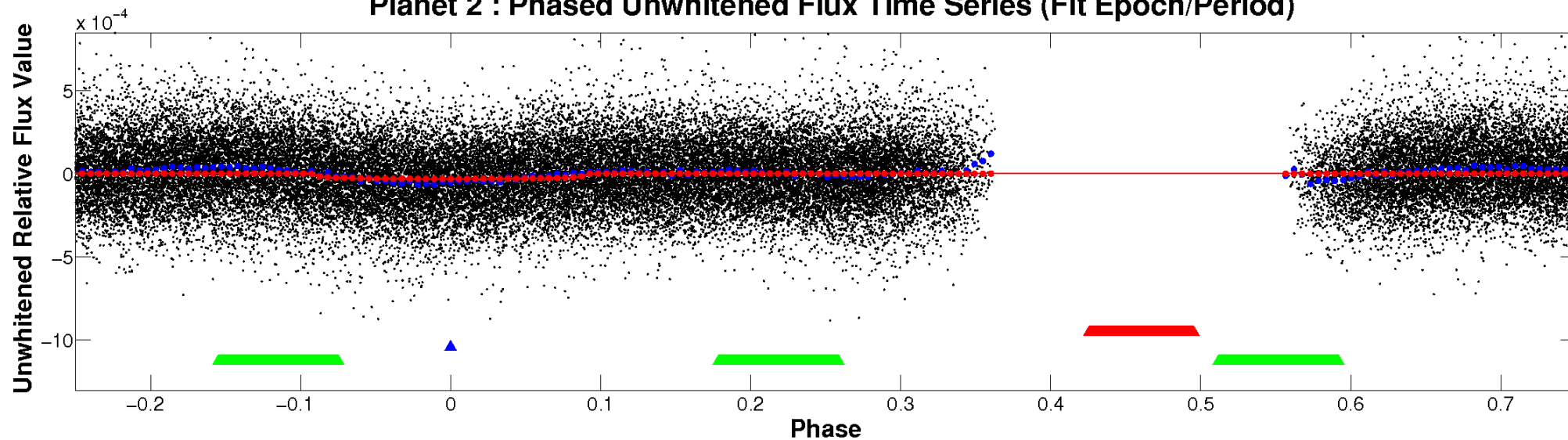
ALT Odd/Even

TCE 003635233-02

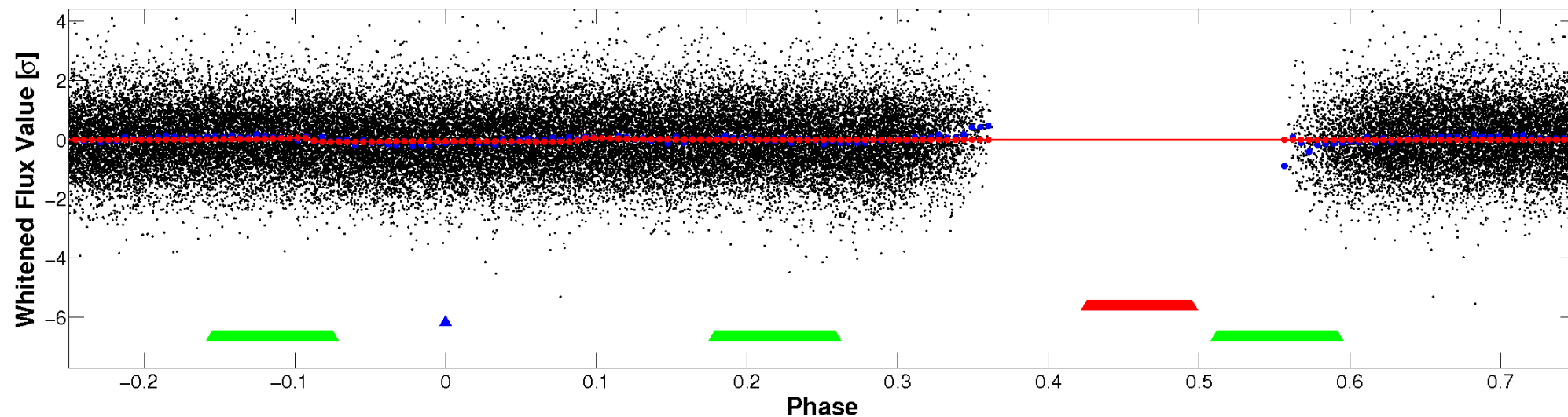


Non-Whitened Vs. Whitened Light Curve

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

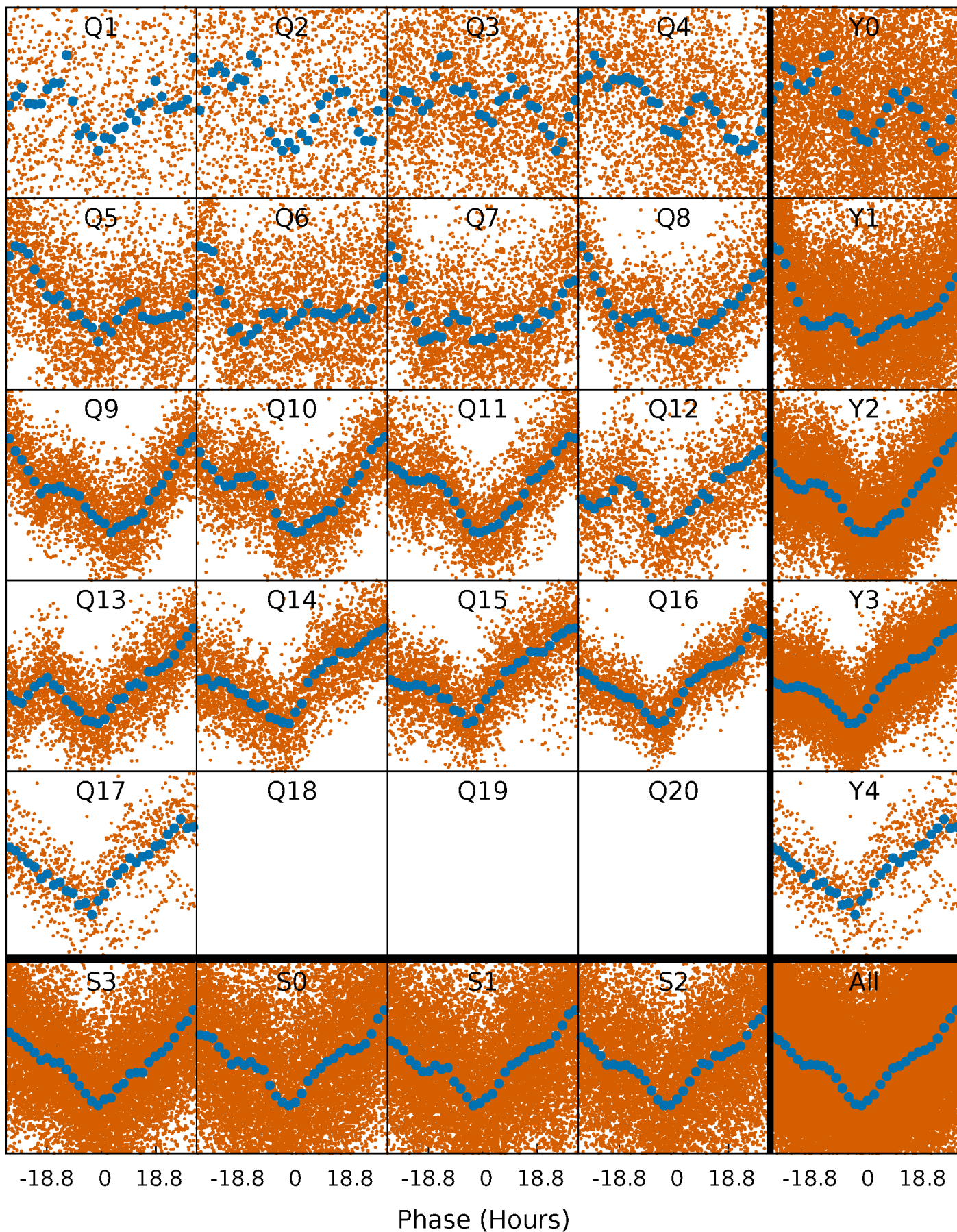


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



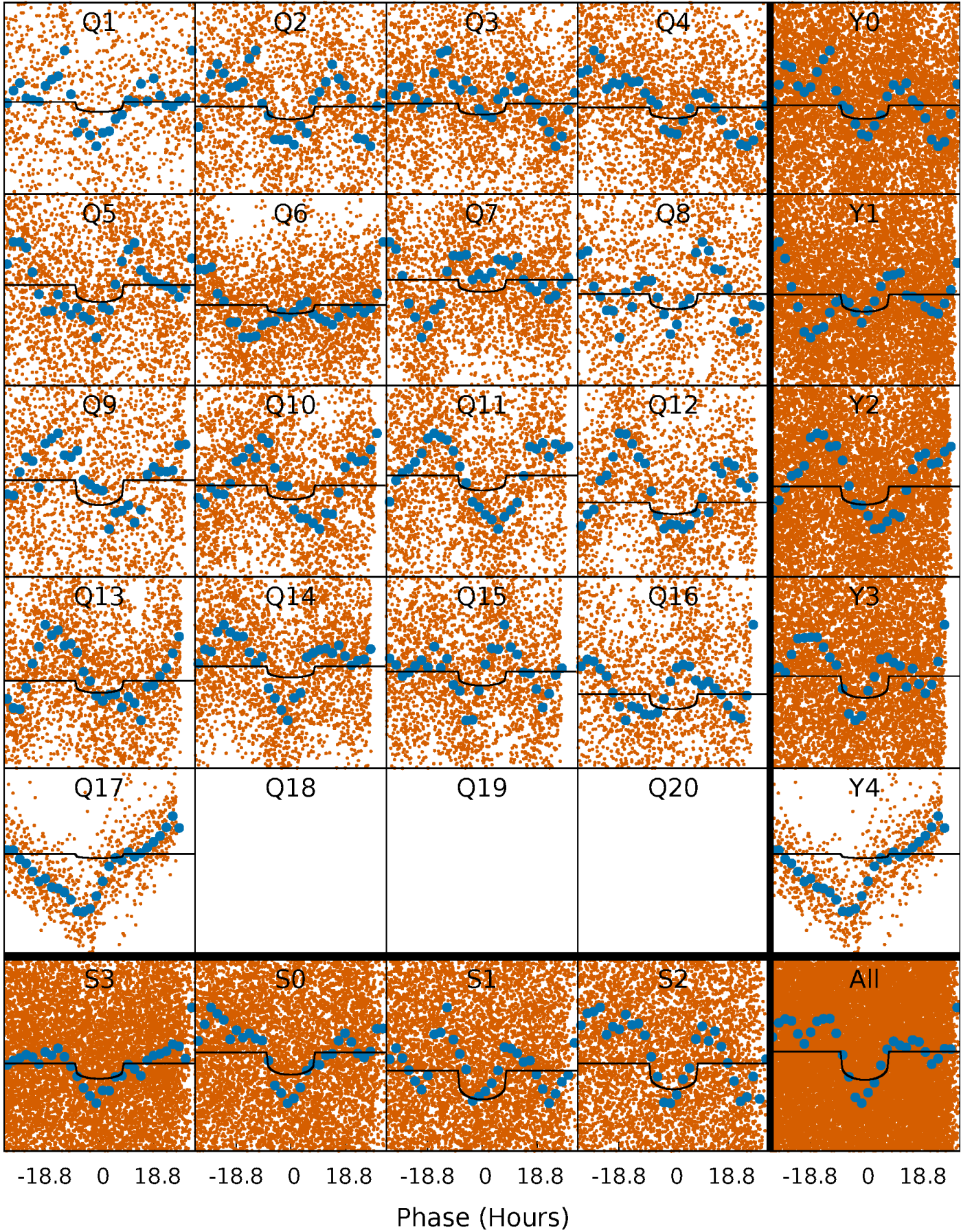
PDC Quarter-Phased Transit Curves

TCE 003635233-02 P= 3.743786 Days $T_0=134.417207$ (BKJD)



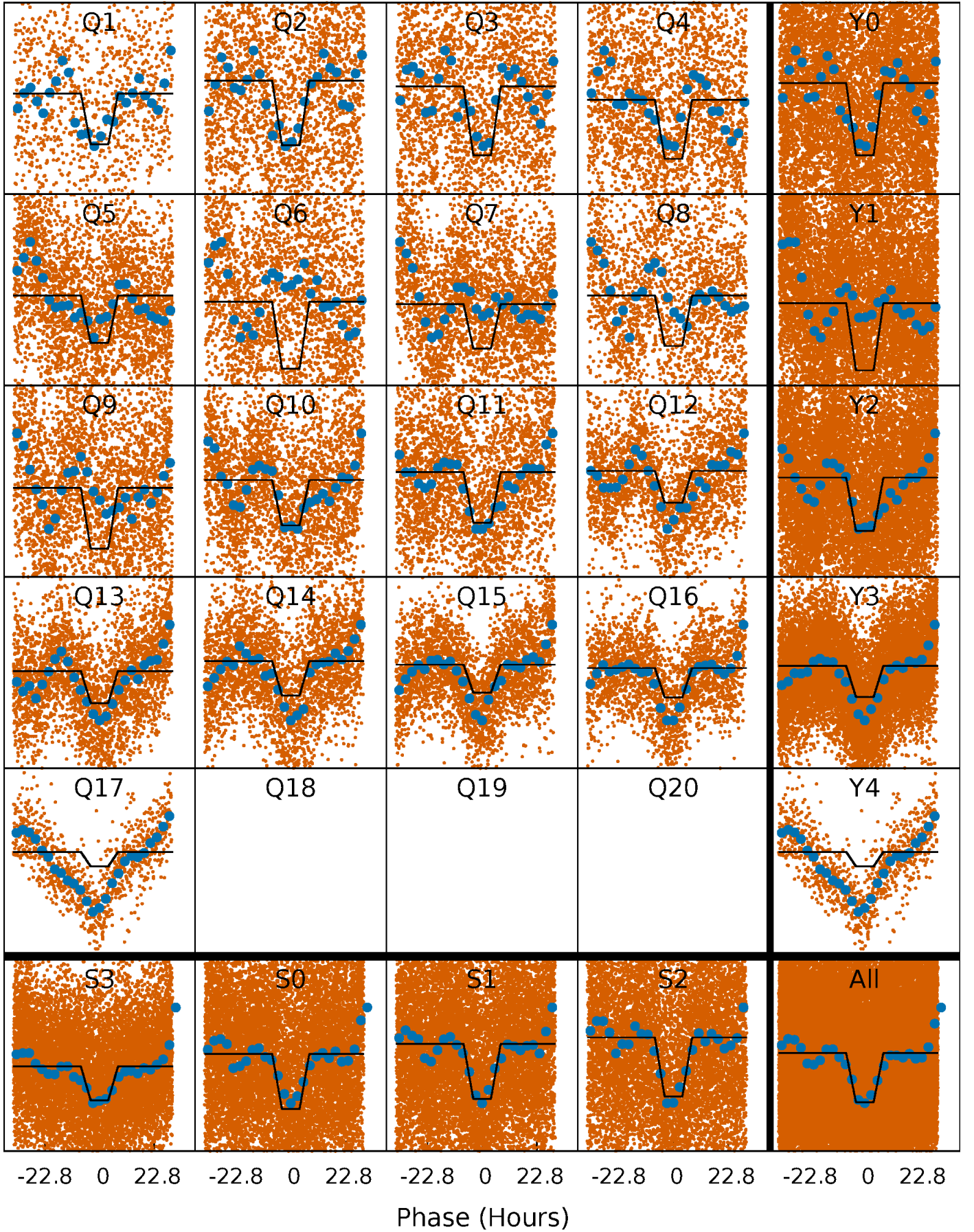
DV Quarter-Phased Transit Curves

TCE 003635233-02 $P = 3.743786$ Days $T_0 = 134.417207$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

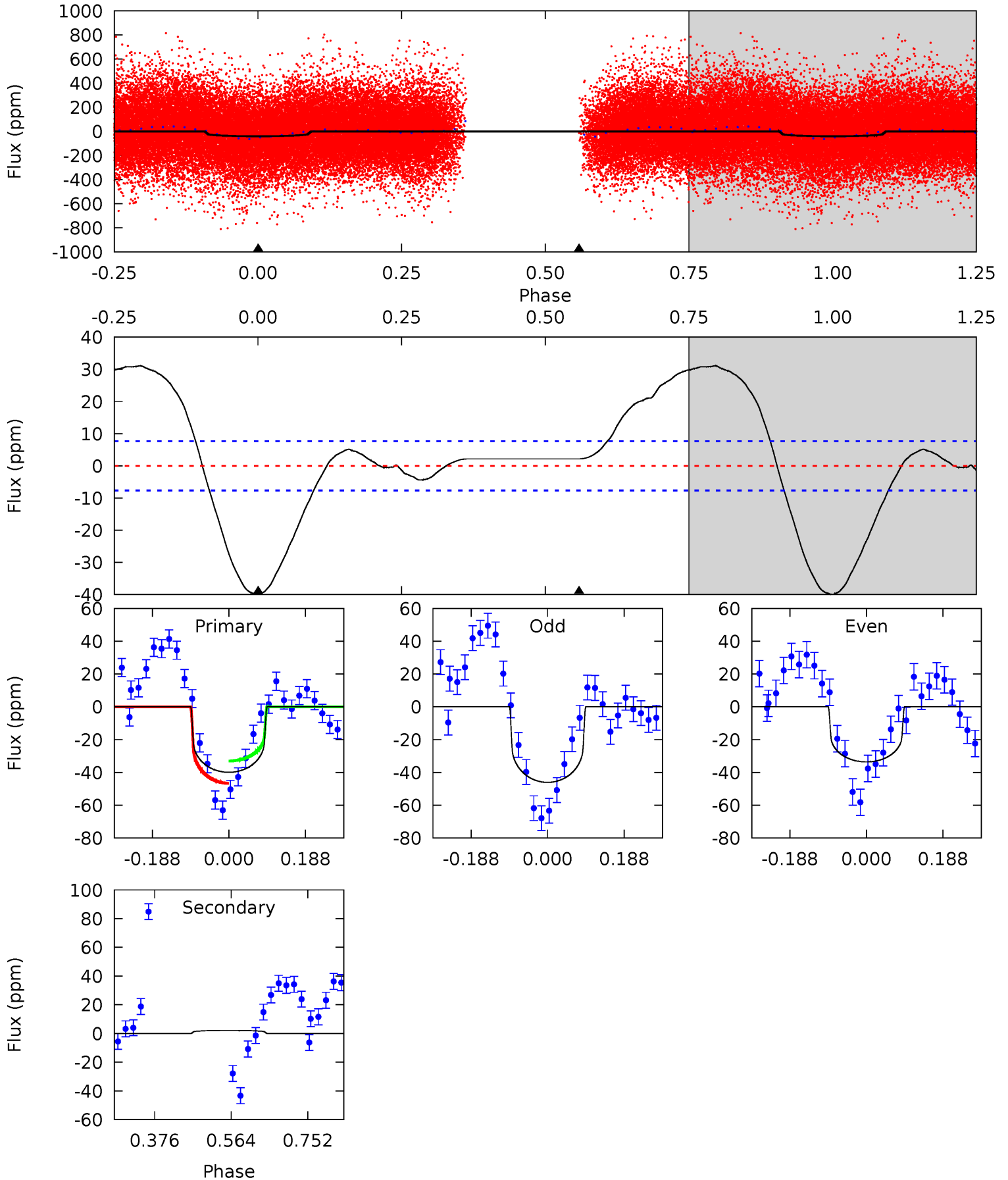
TCE 003635233-02 P= 3.743176 Days $T_0=134.499292$ (BKJD)



DV Model-Shift Uniqueness Test

003635233-02, P = 3.743786 Days, E = 130.673421 Days

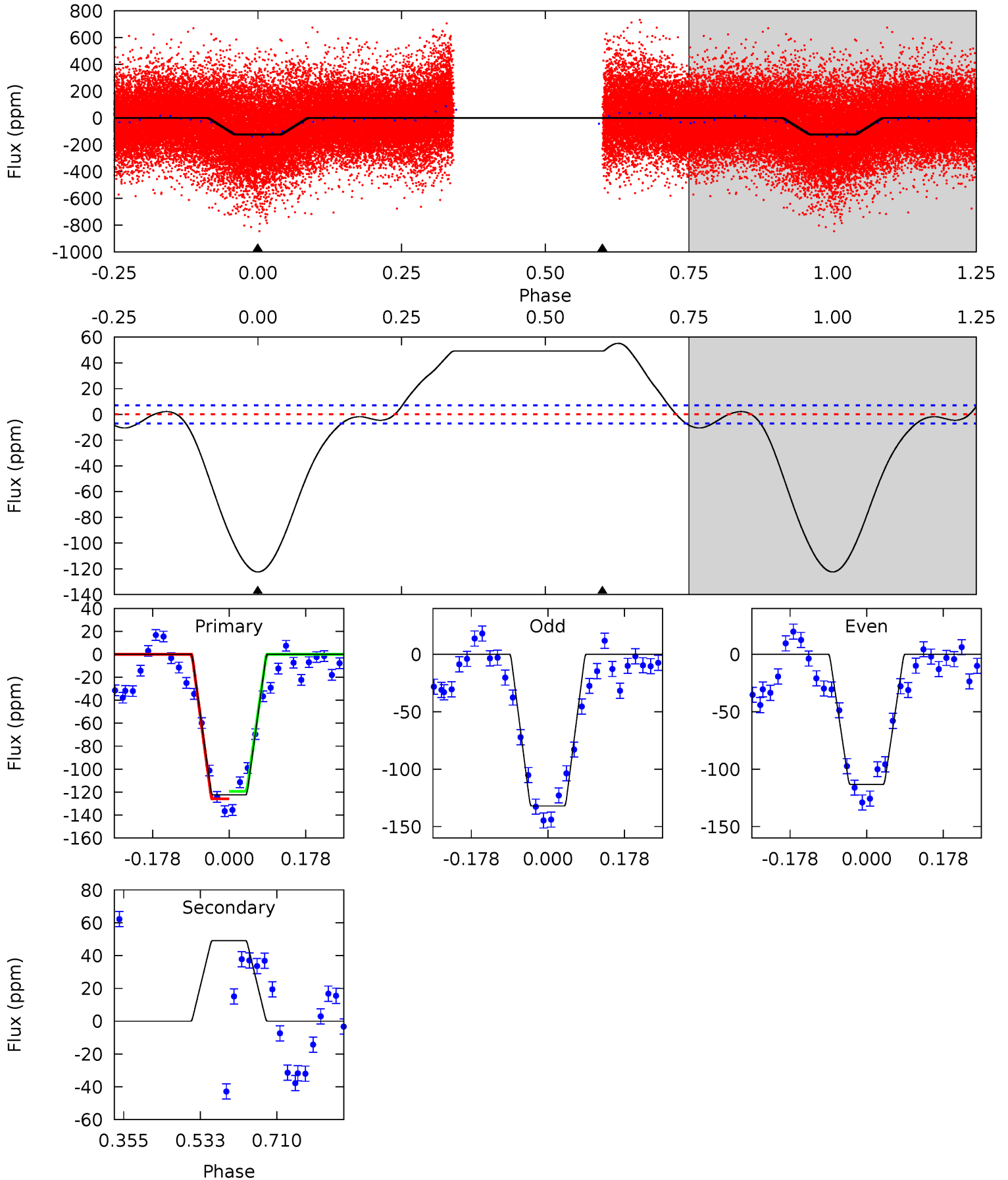
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.1	-1.24	0	0	4.43	1.32	8.64	23.1	23.1	-1.24	-1.24	3.60	1.25	0.44	3.86



Alt Model-Shift Uniqueness Test

003635233-02, P = 3.743176 Days, E = 130.756116 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
77.4	-31.0	0	0	4.44	1.35	11.3	77.4	77.4	-31.0	-31.0	5.90	1.07	0.31	2.15



Stellar Parameters For KIC 003635233

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

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

Secondary Eclipse Parameters for KIC 003635233-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	2 ± 2	$0.63^{+0.17}_{-0.14}$	1640^{+82}_{-77}	-3413^{+709}_{-456}	$-5.969^{+4.992}_{-8.123}$
Alt.	49 ± 2	$1.26^{+0.18}_{-0.19}$	1644^{+76}_{-79}	-4676^{+251}_{-283}	$-38.533^{+9.595}_{-13.840}$

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

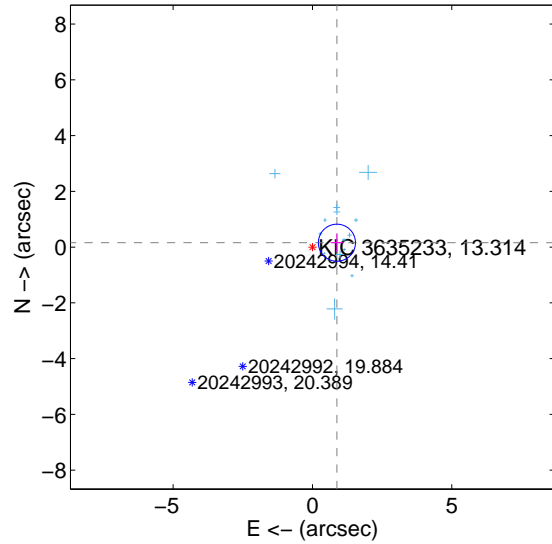
Supplemental centroid analysis for 003635233-02. Kepler magnitude: 13.31. Transit SNR 7.43

There are 14 quarters with good PRF difference image offsets

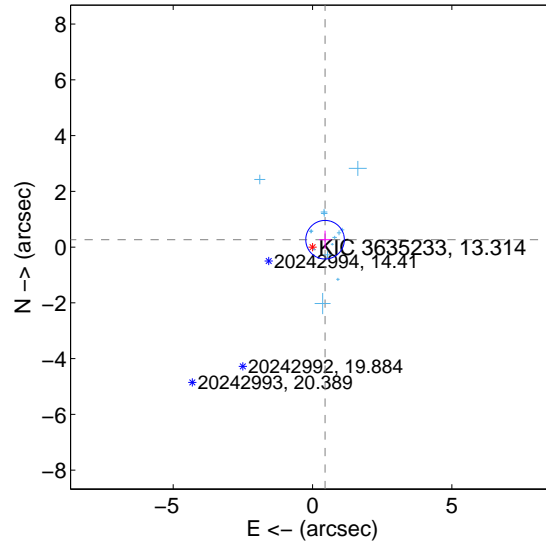
The direct PRF centroid is offset from the target star catalog position by about 0.46 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.892 ± 0.222	4.02	-0.878 ± 0.228	0.157 ± 0.328
PRF-fit source offset from KIC position	0.522 ± 0.231	2.26	-0.449 ± 0.210	0.265 ± 0.325
photometric centroid source offset	4.58 ± 0.88	5.18	-3.04 ± 0.88	3.42 ± 0.89

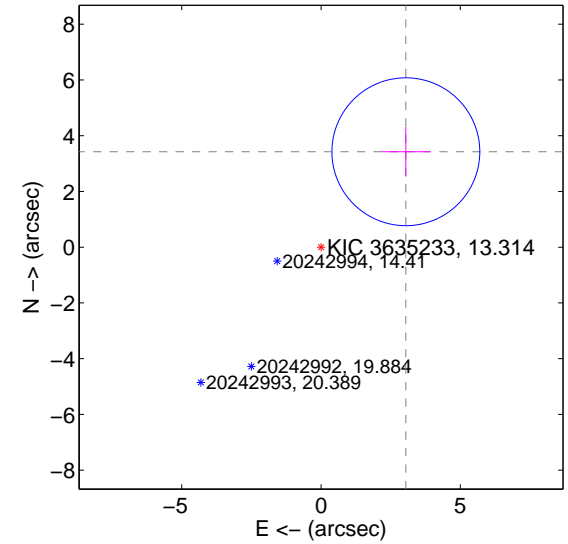
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

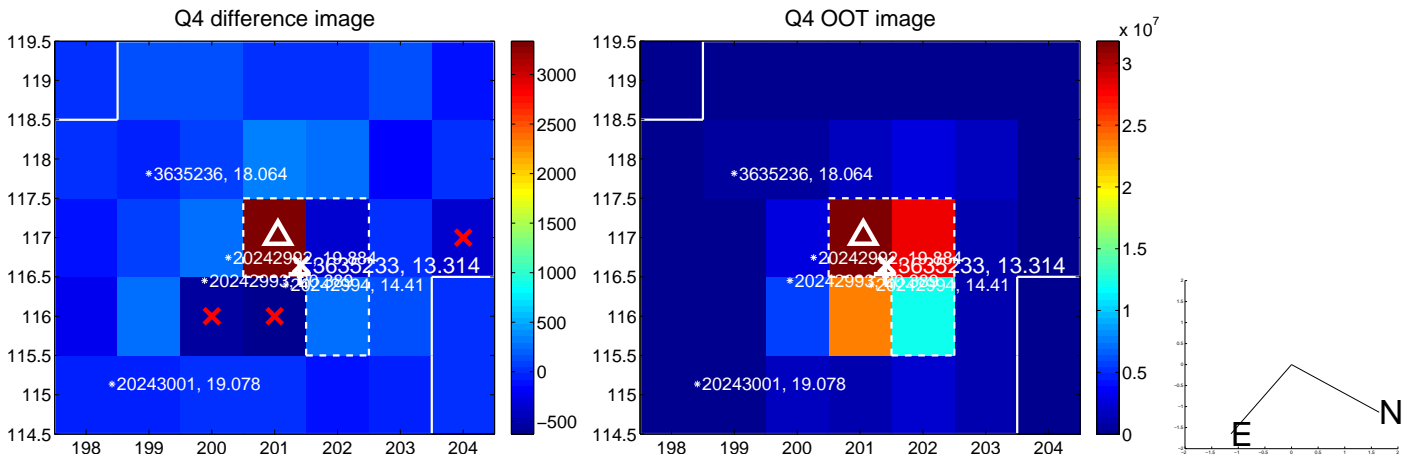
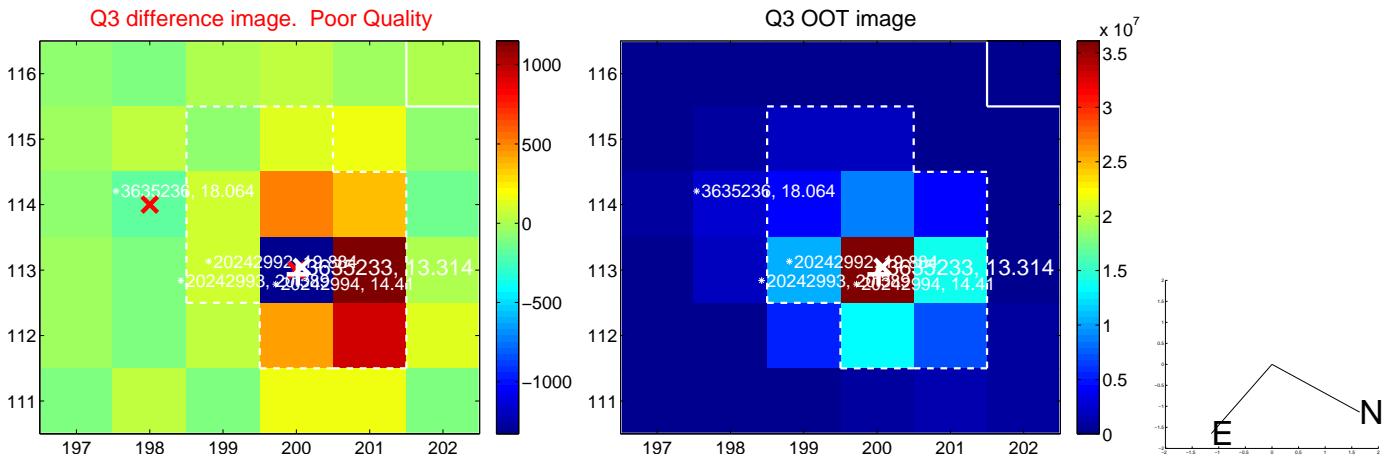
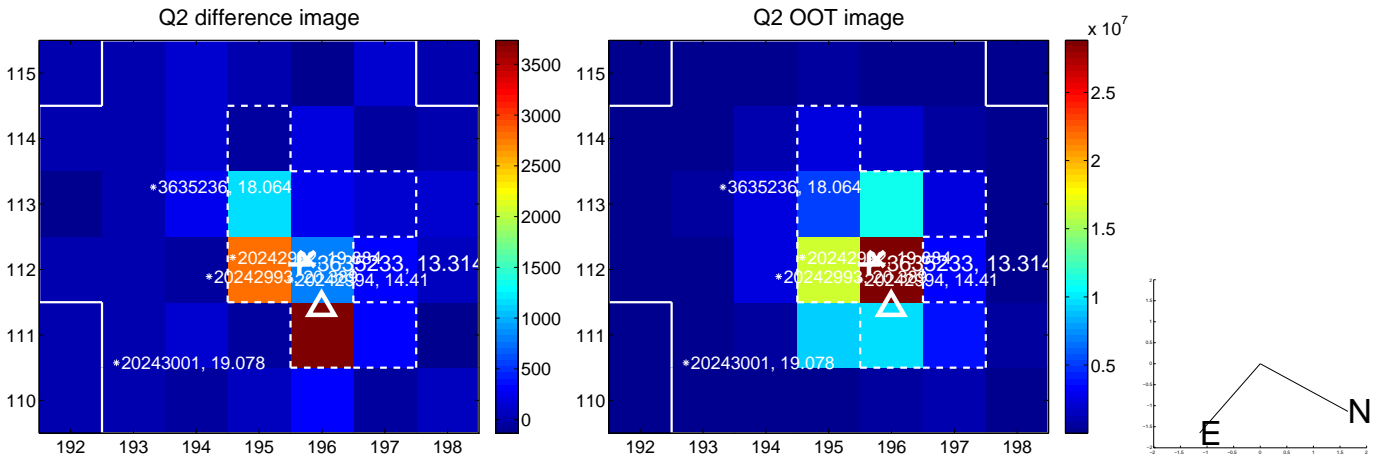
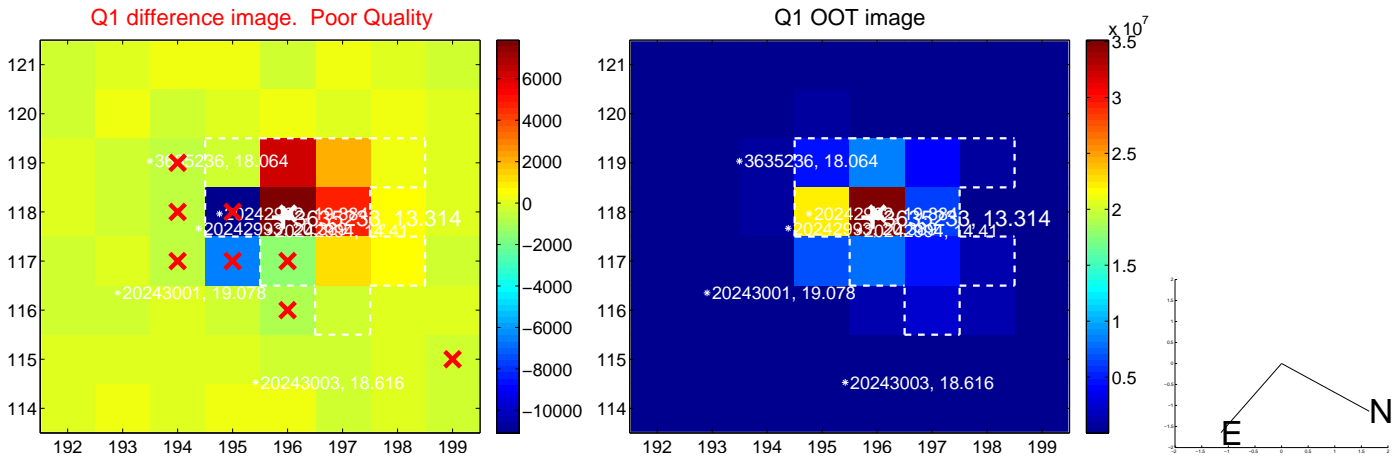


offset from photometric centroids

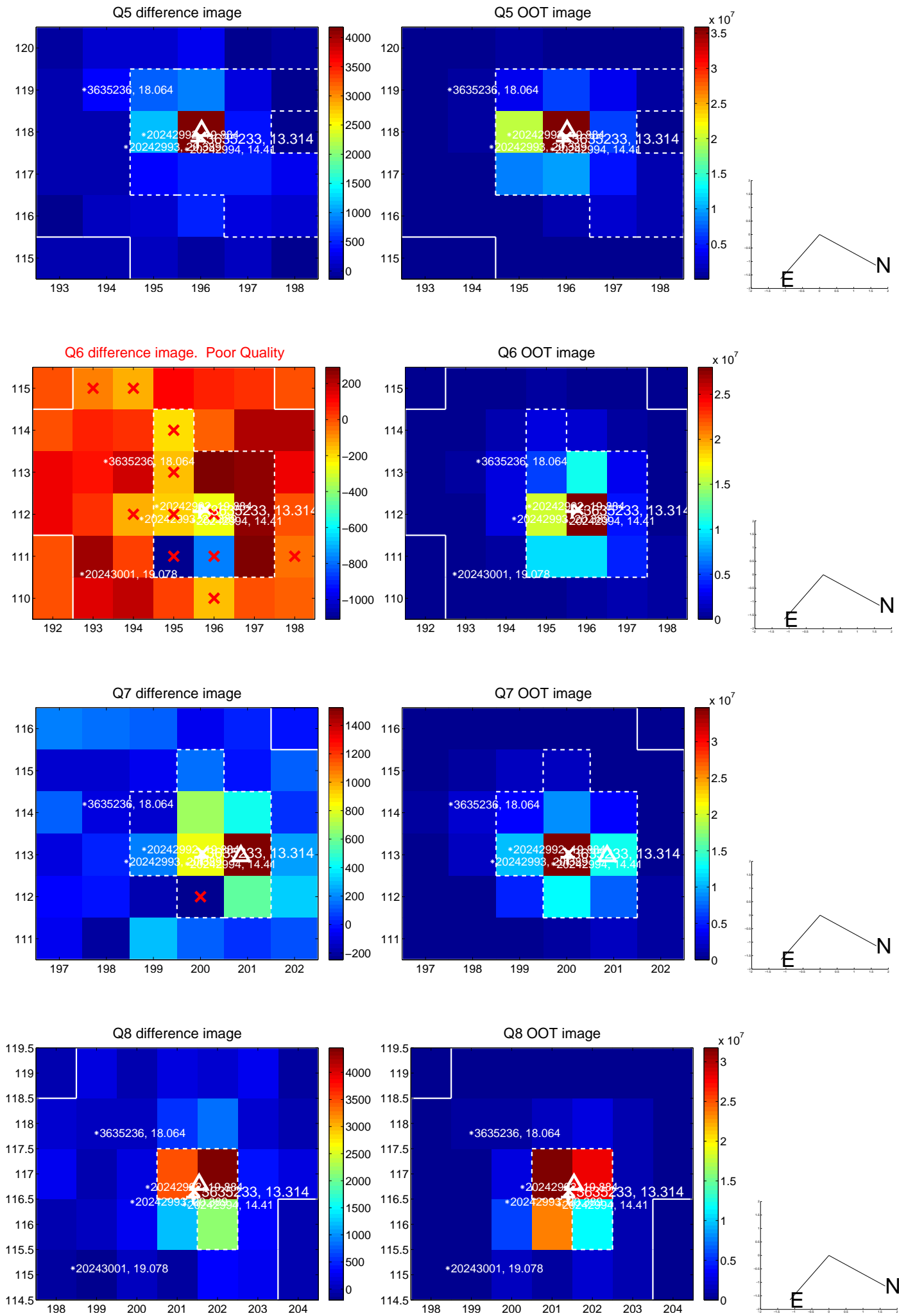


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

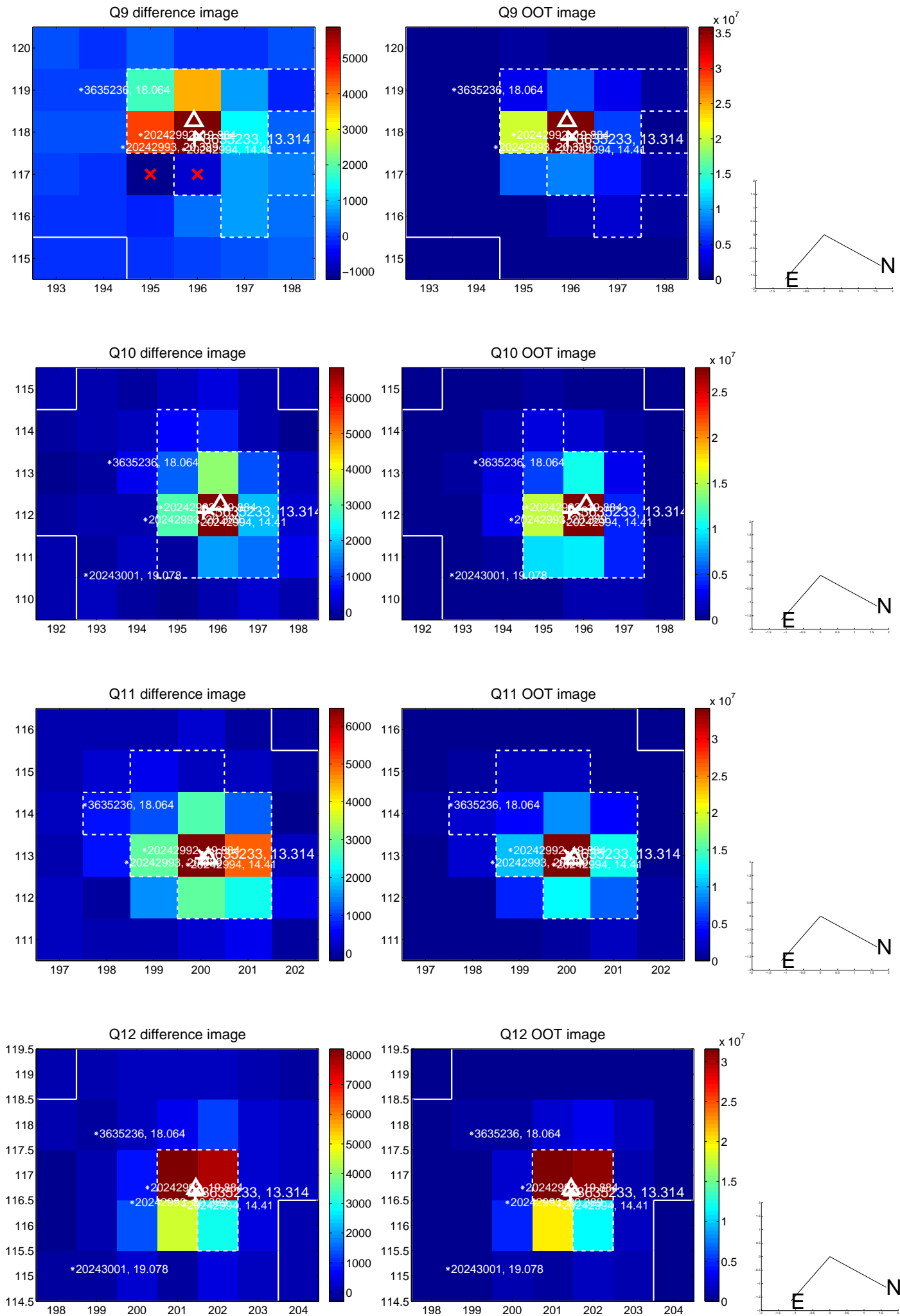
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



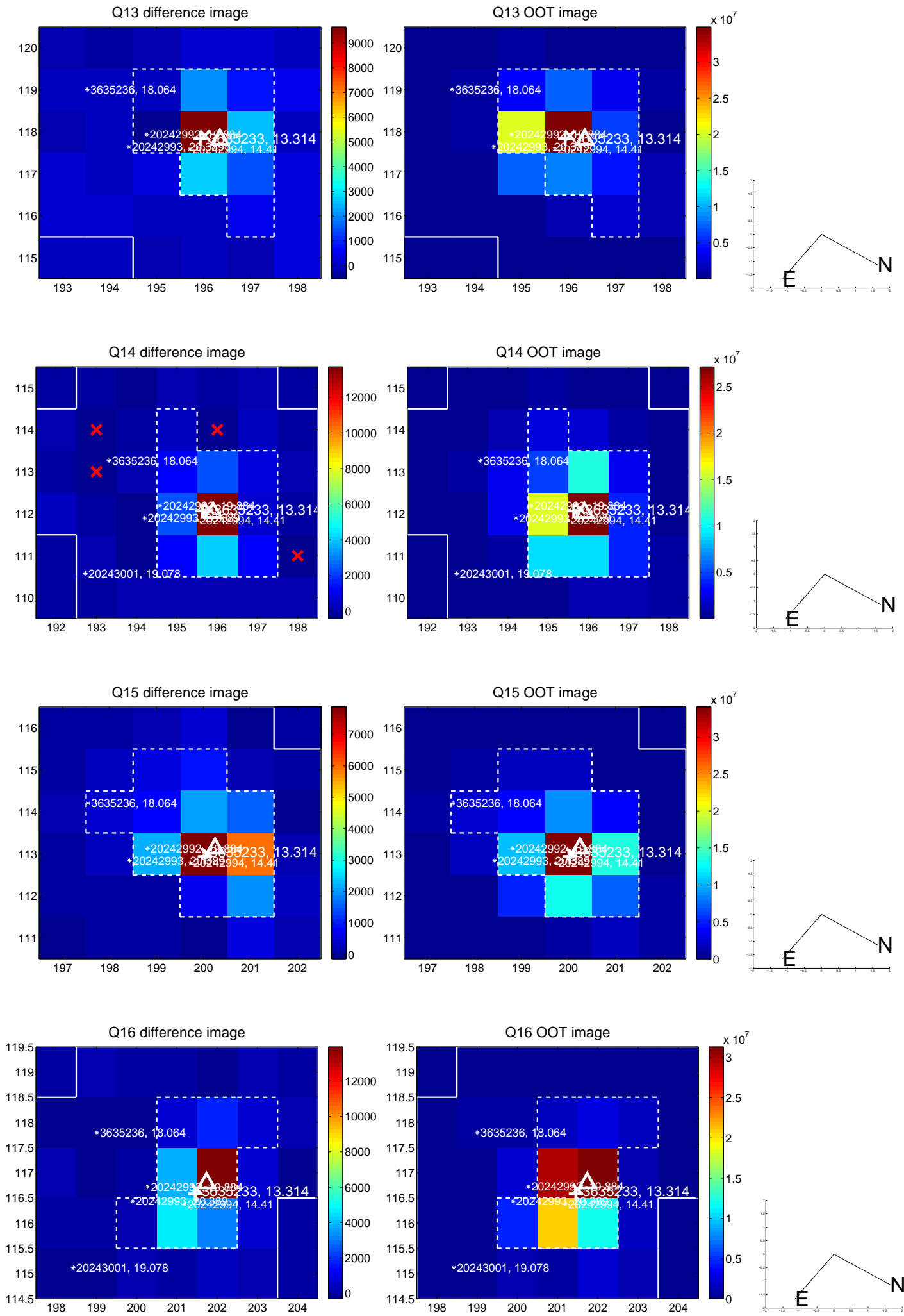
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



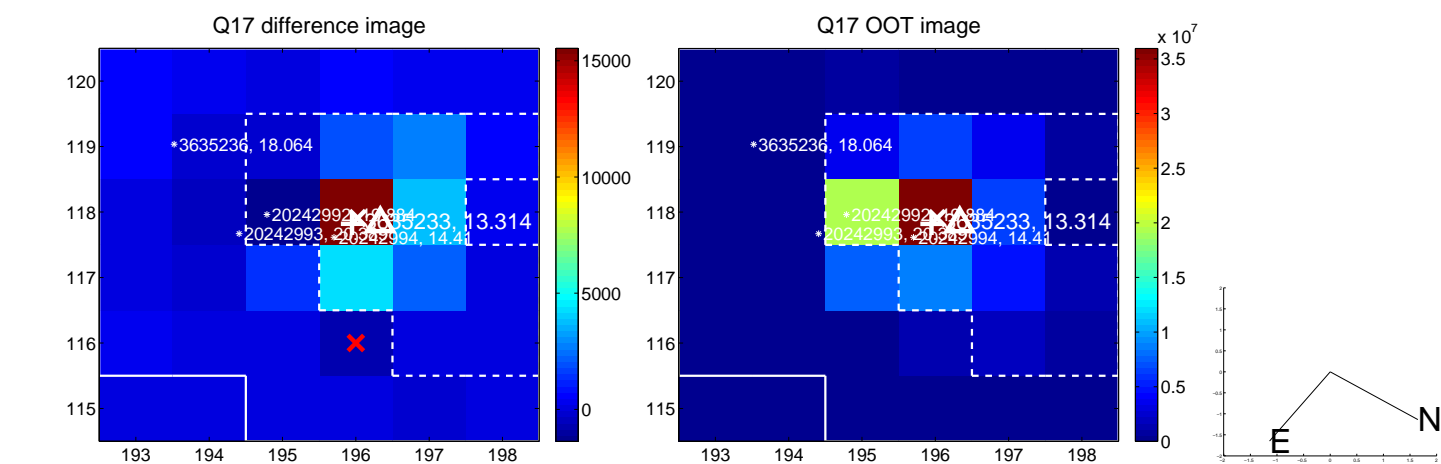
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



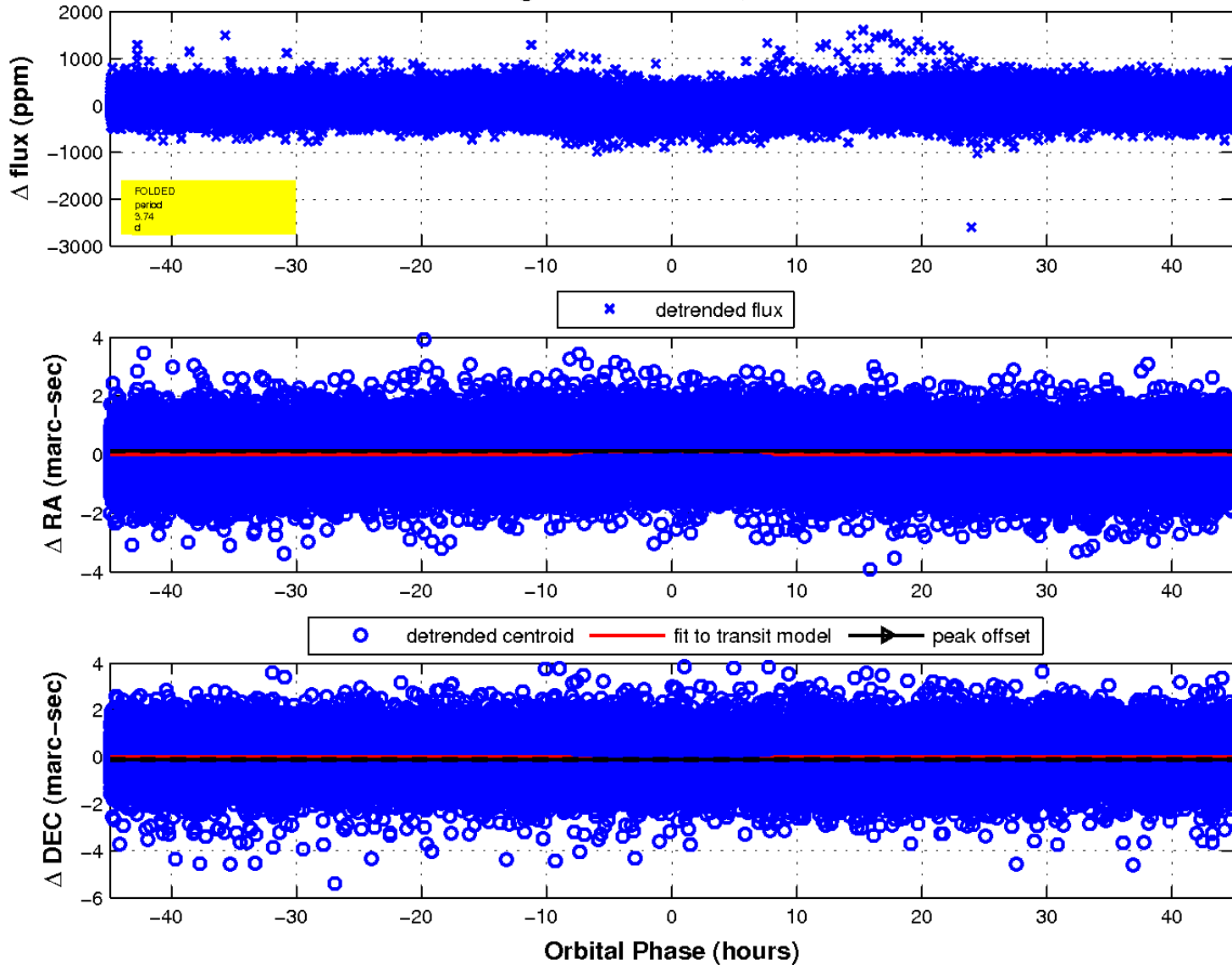
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

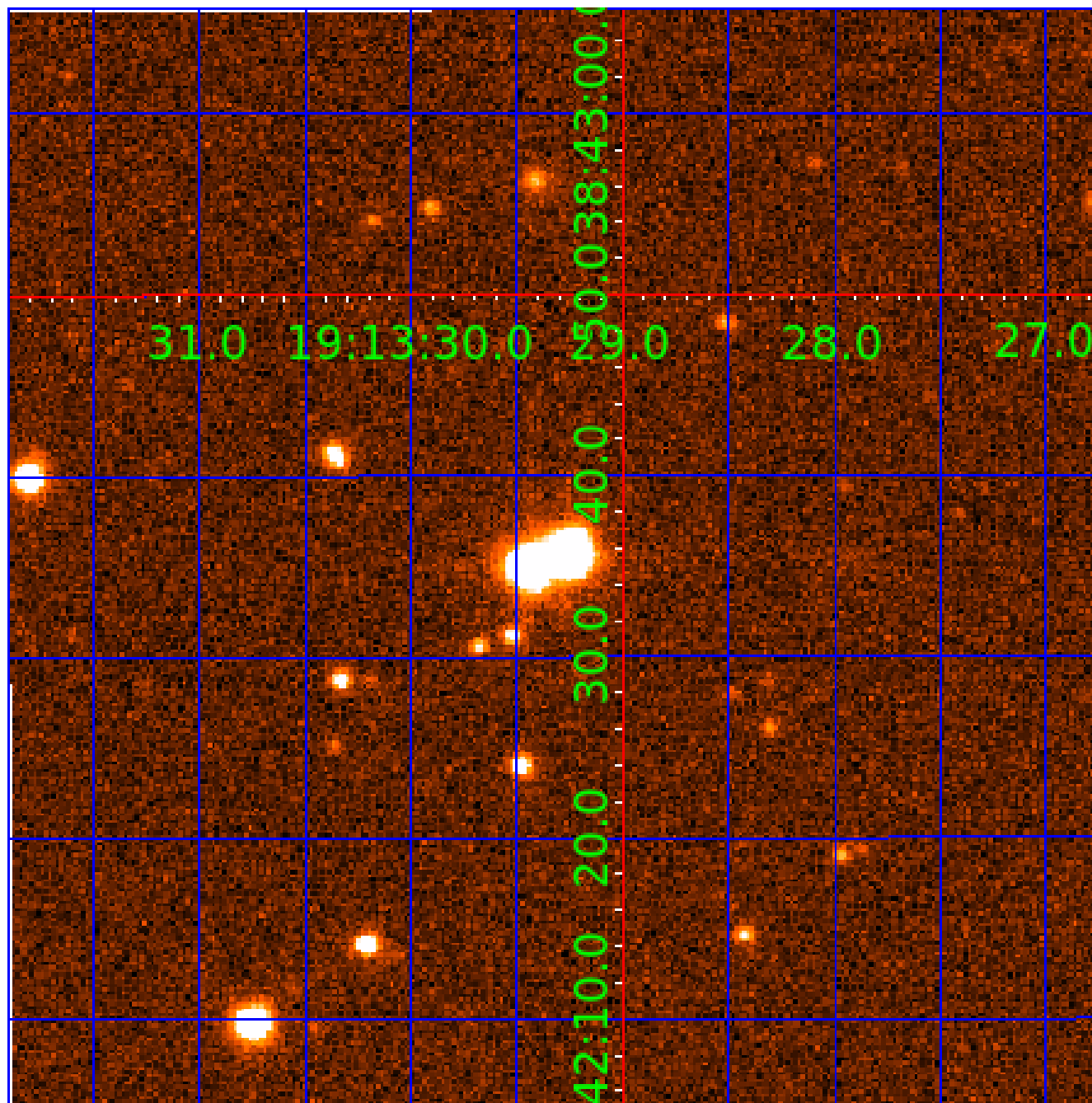


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 003635233

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})
003635233-01	OBS	No	3.743115	132.527895	50.8	7.737	13.5	11.1	1.00	5780	0.85	449.05
003635233-02	OBS	No	3.743786	134.417207	32.2	16.449	10.2	7.4	1.00	5780	0.63	448.94
003635233-03	OBS	No	1.247672	131.641748	82.2	12.676	10.2	14.1	1.00	5780	0.91	1942.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003635233-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
003635233-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_KIC_POS
003635233-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

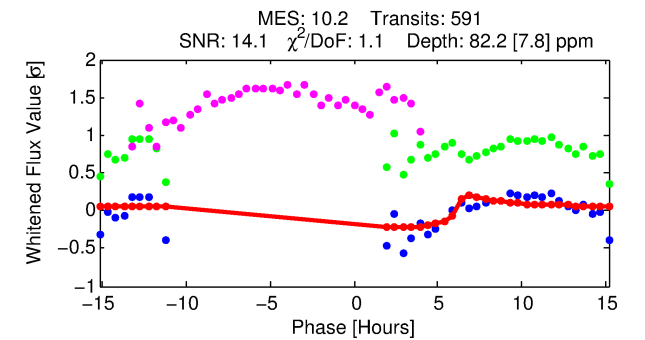
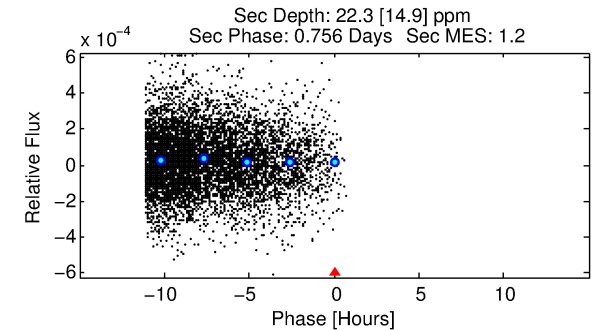
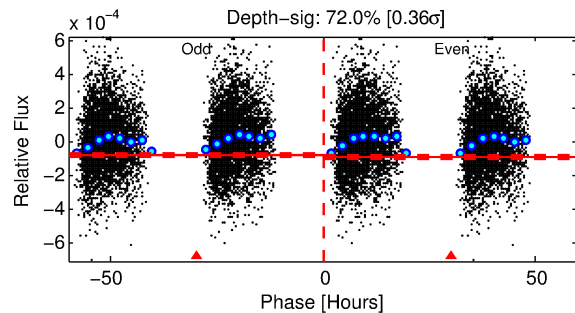
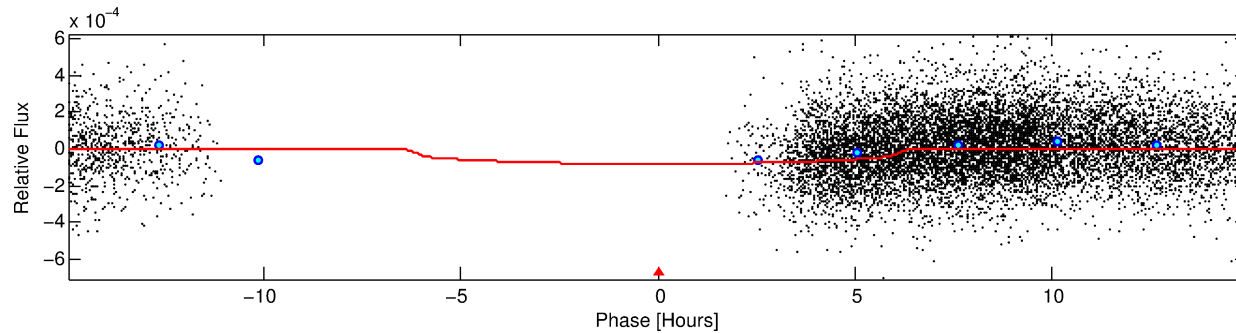
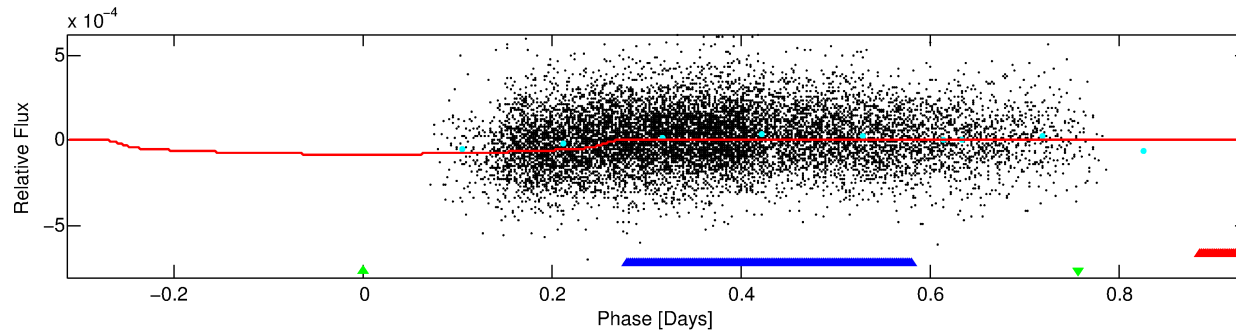
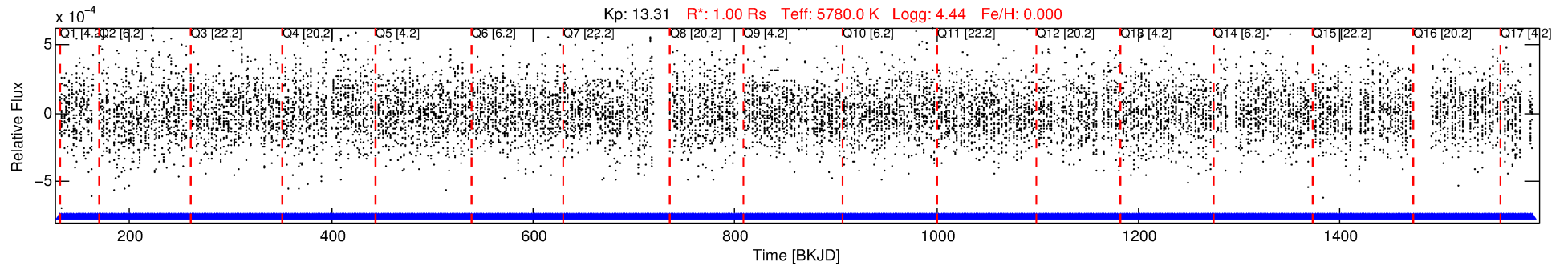
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003635233-03

No Significant Match Found

DV One-Page Summary

KIC: 3635233 Candidate: 3 of 3 Period: 1.248 d



DV Fit Results:

Period = 1.24767 [0.00001] d
Epoch = 131.6417 [0.0245] BKJD
Rp/R* = 0.0084 [0.0034]
a/R* = 1.03 [0.14]
b = 0.38 [4.19]
Seff = 1943.00 [0.02]
Teq = 1693 [0] K
Rp = 0.91 [0.38] Re
a = 0.0227 [0.0000] AU
Ag = 7.58 [8.03] [0.82 σ]
Teffp = 4343 [1150] K [2.30 σ]

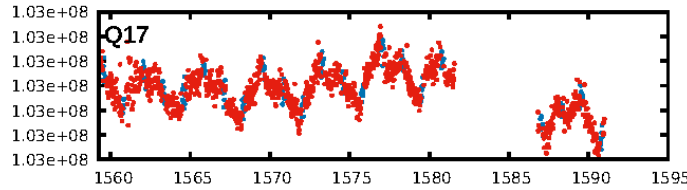
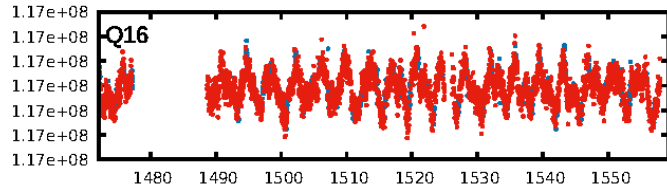
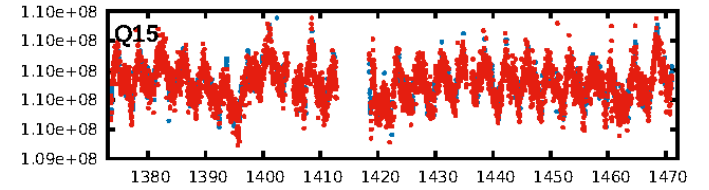
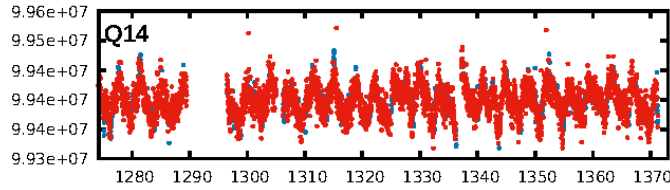
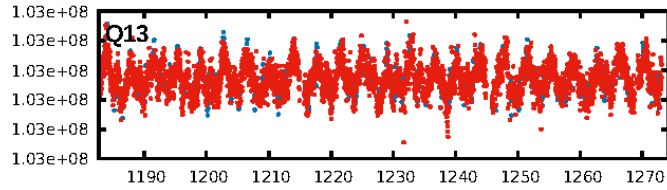
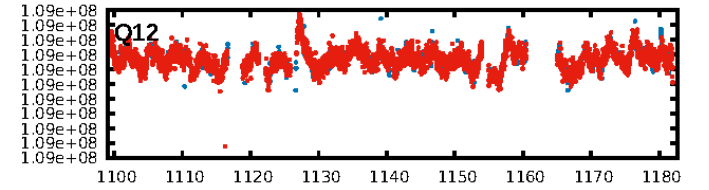
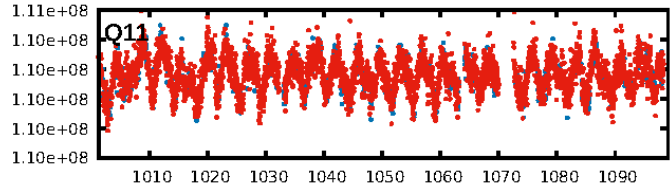
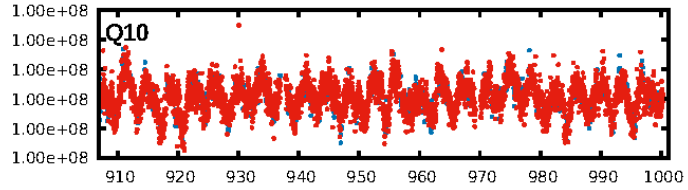
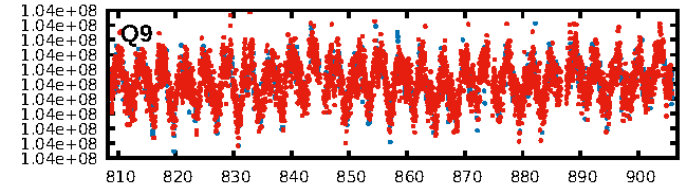
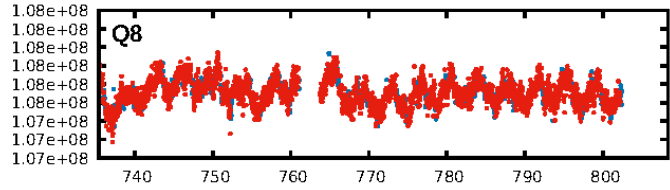
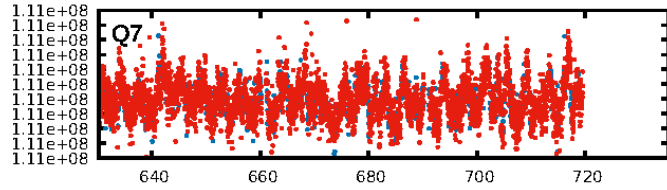
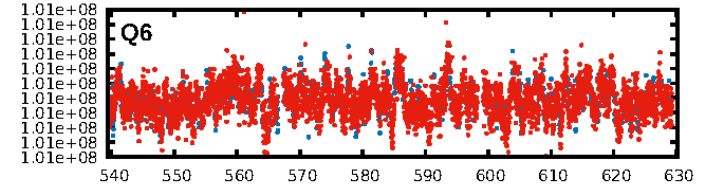
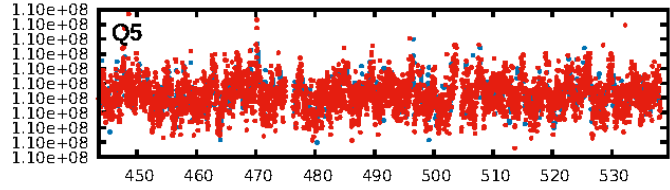
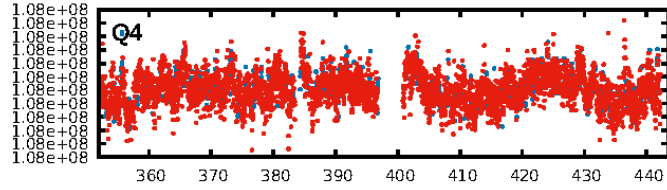
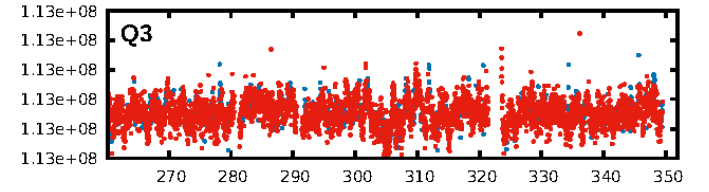
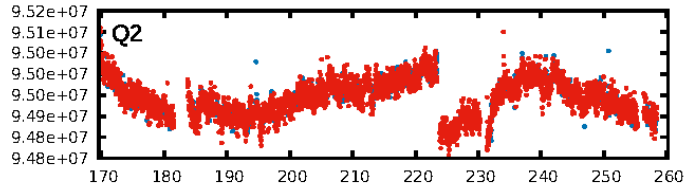
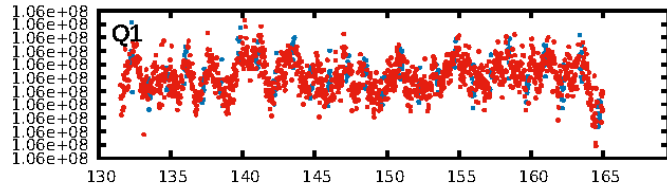
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [4.03 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [566/566]
GhostDiagnostic-chr: 1.289
Centroid-sig: 0.0%
Centroid-so: 0.329 arcsec [1.64 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/17]

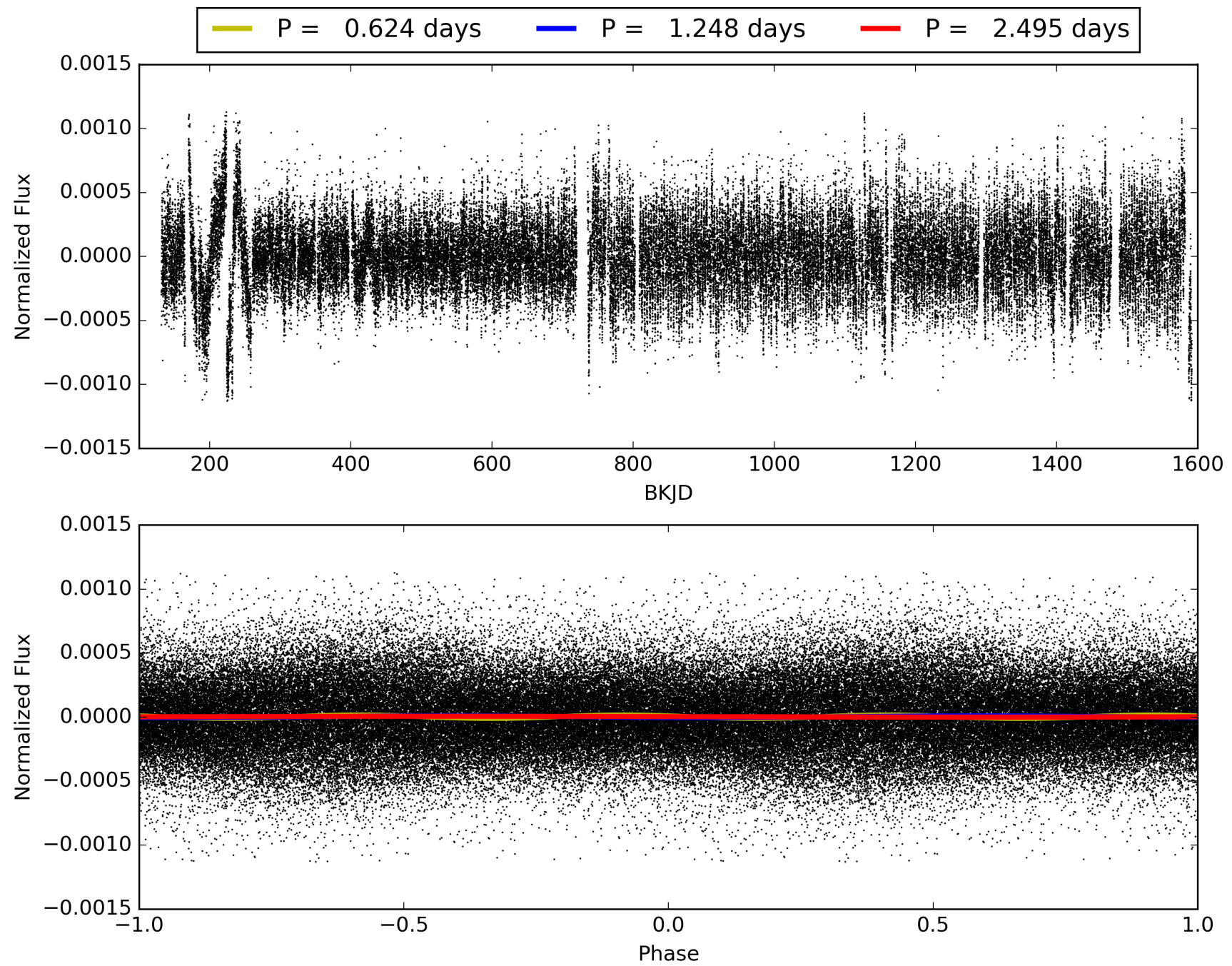
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 04:20:30 Z

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

TCE 003635233-03, PDC Light Curves

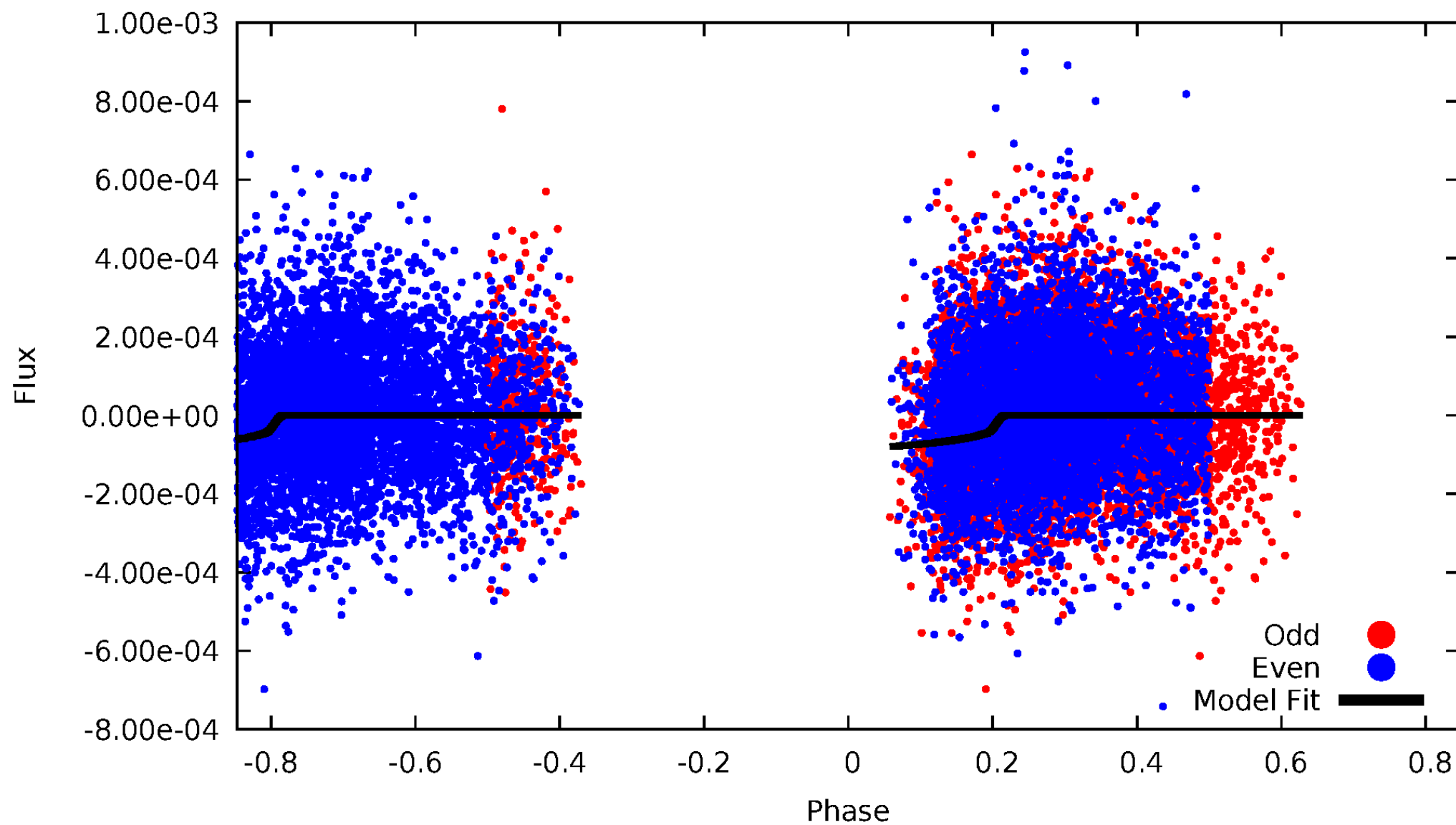


TCE 003635233-03



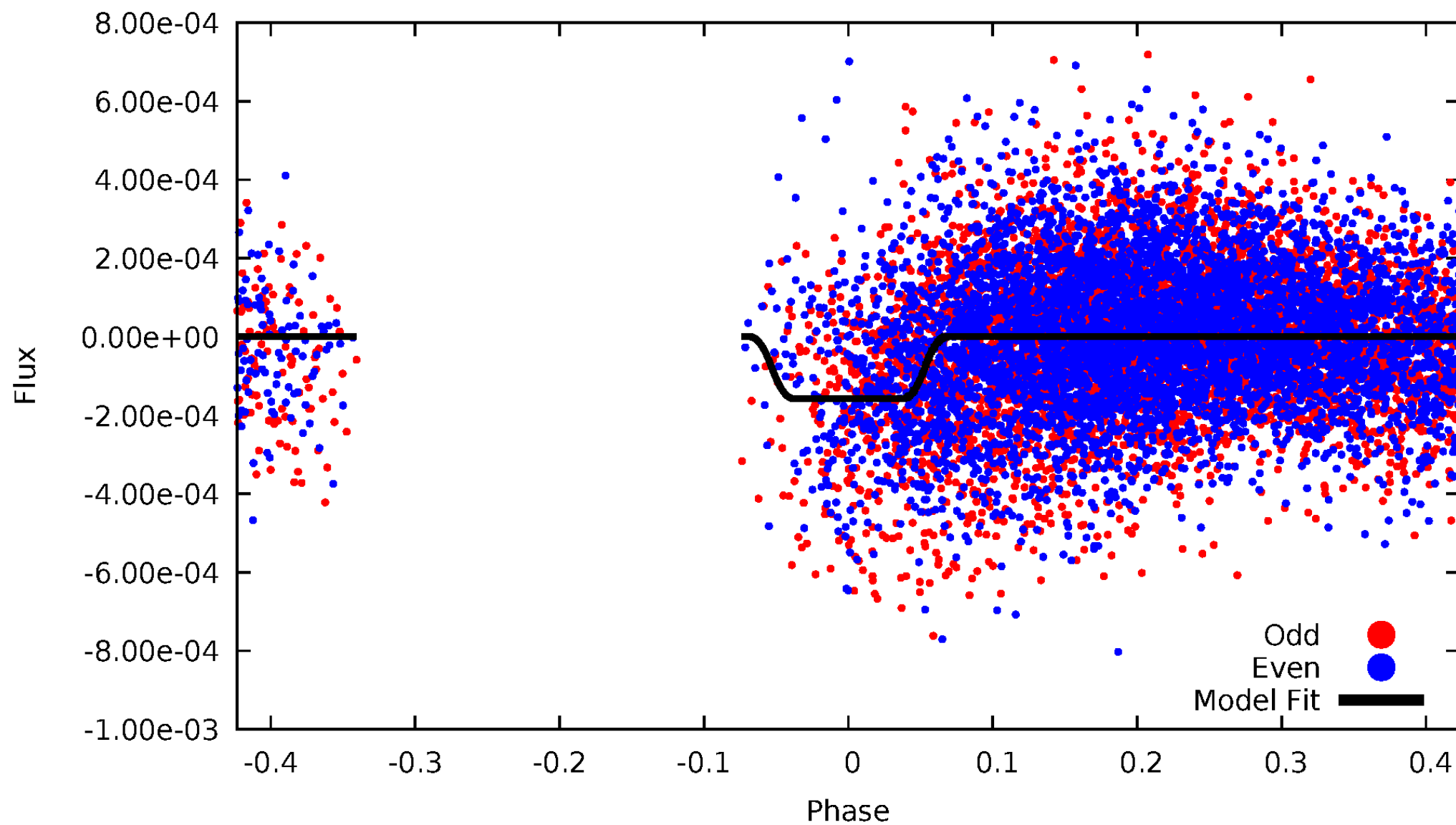
DV Odd/Even

TCE 003635233-03



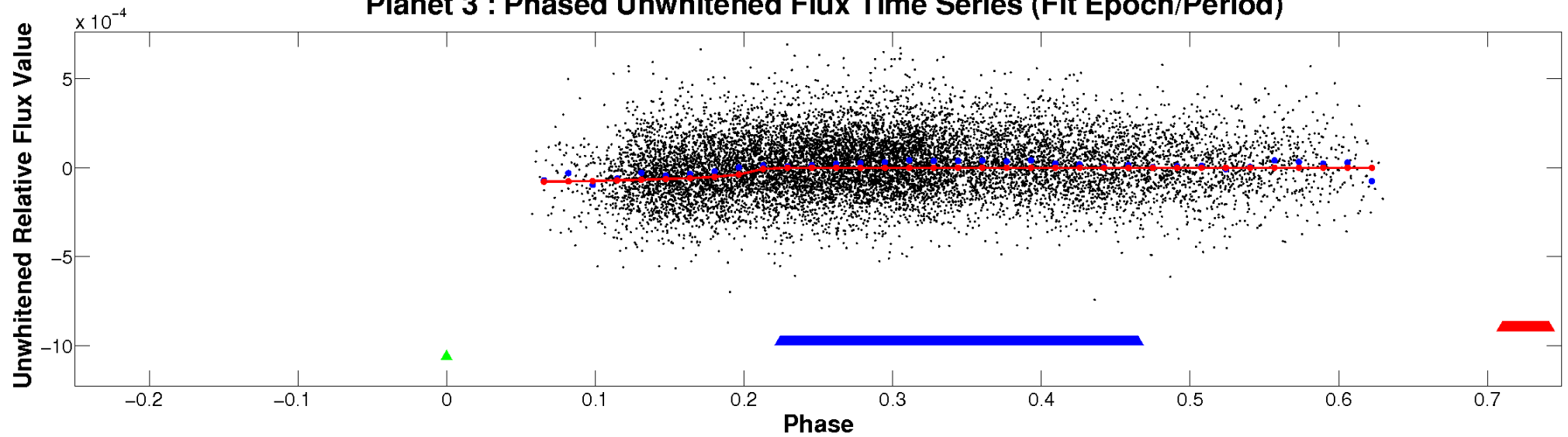
ALT Odd/Even

TCE 003635233-03

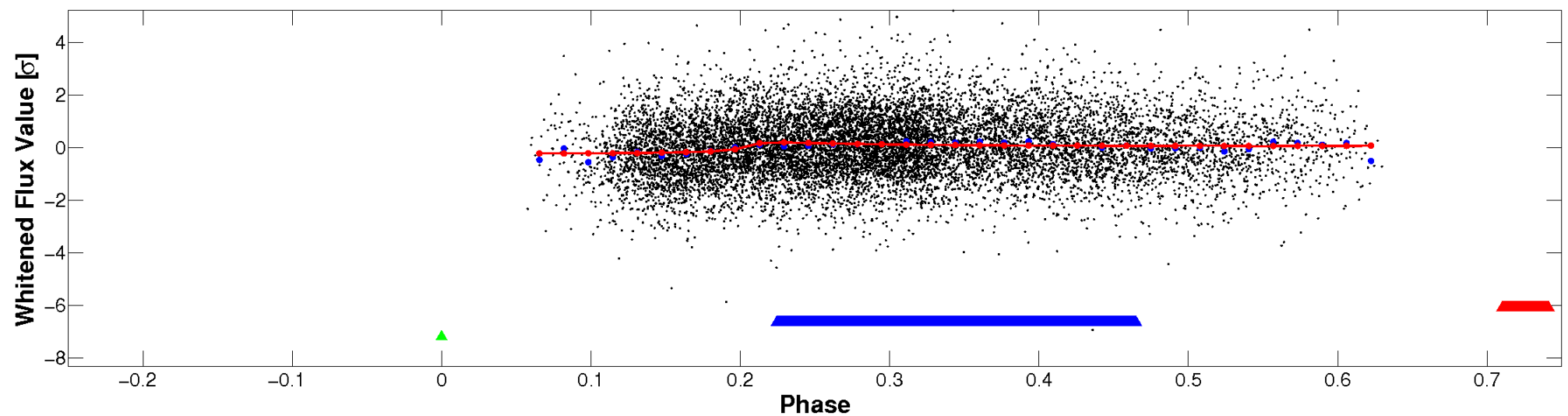


Non-Whitened Vs. Whitened Light Curve

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

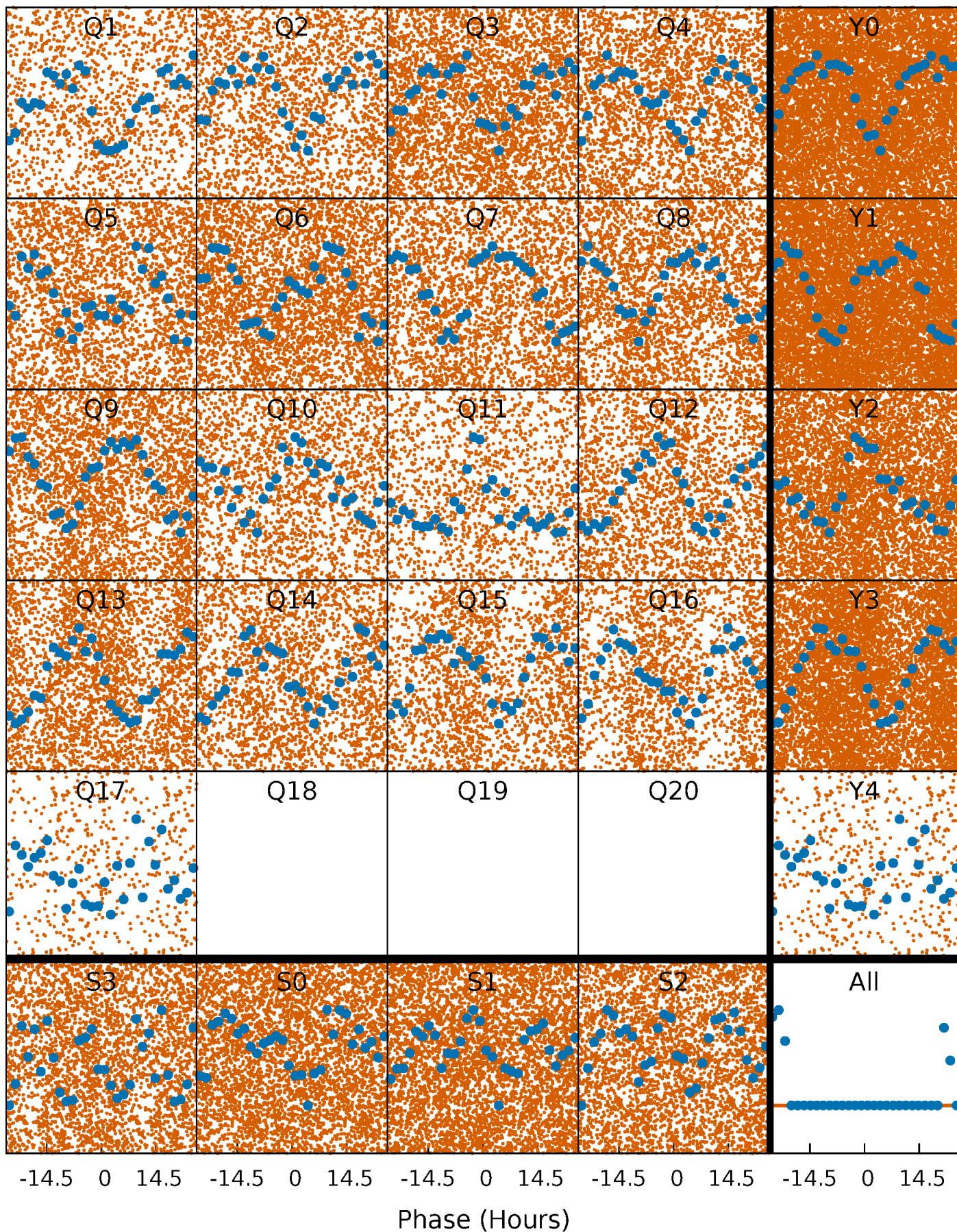


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



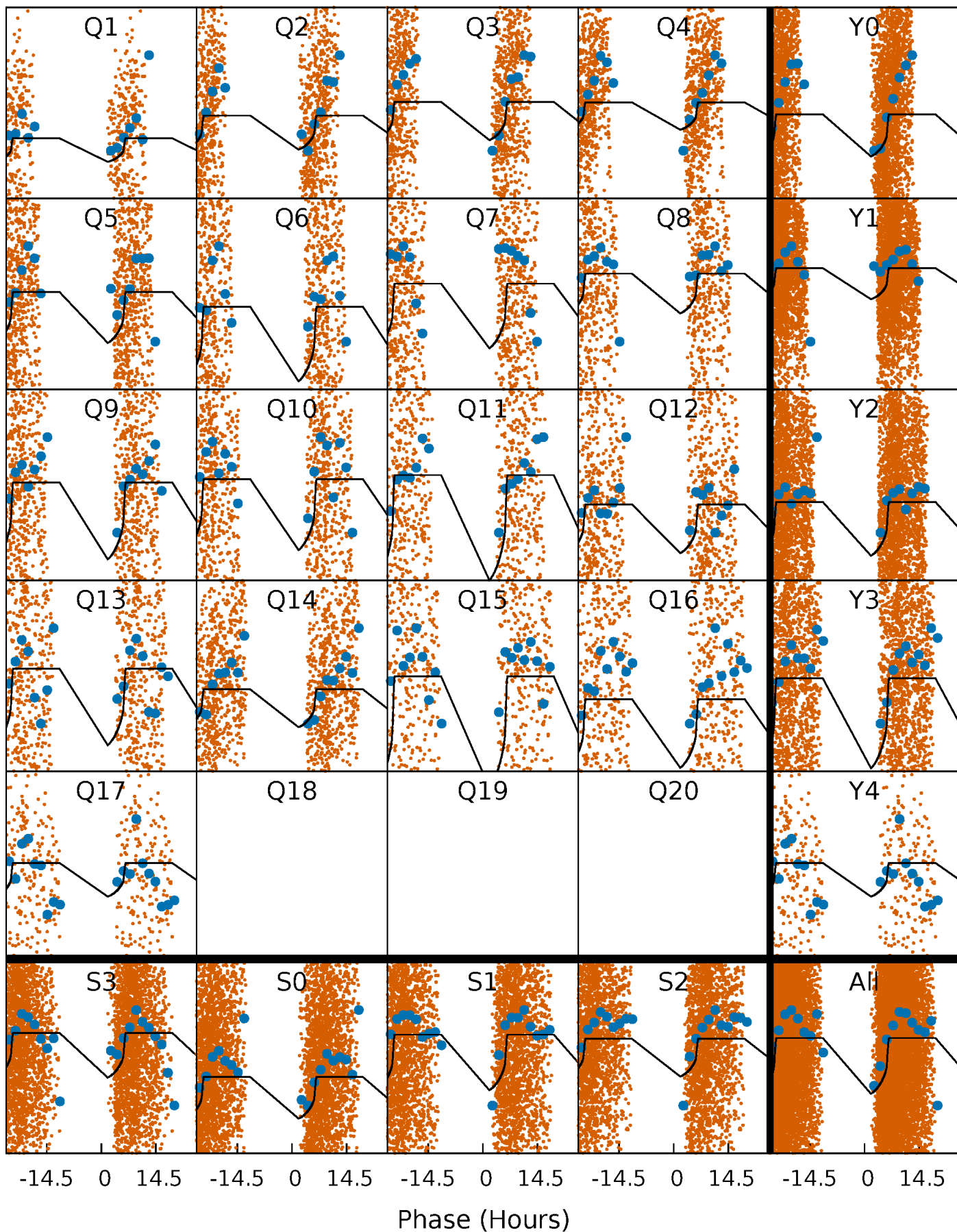
PDC Quarter-Phased Transit Curves

TCE 003635233-03 P= 1.247672 Days $T_0=131.641748$ (BKJD)



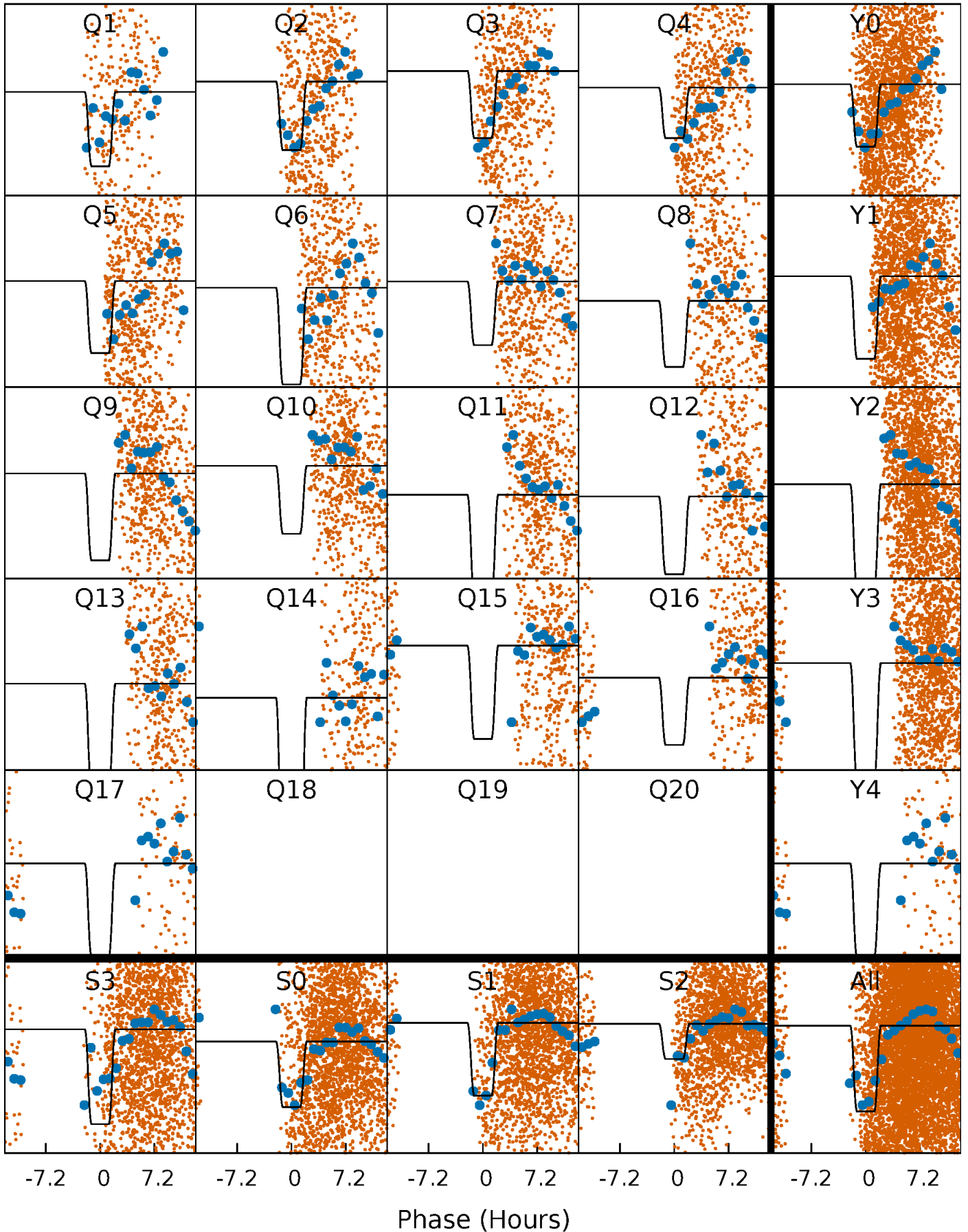
DV Quarter-Phased Transit Curves

TCE 003635233-03 P= 1.247672 Days $T_0=131.641748$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

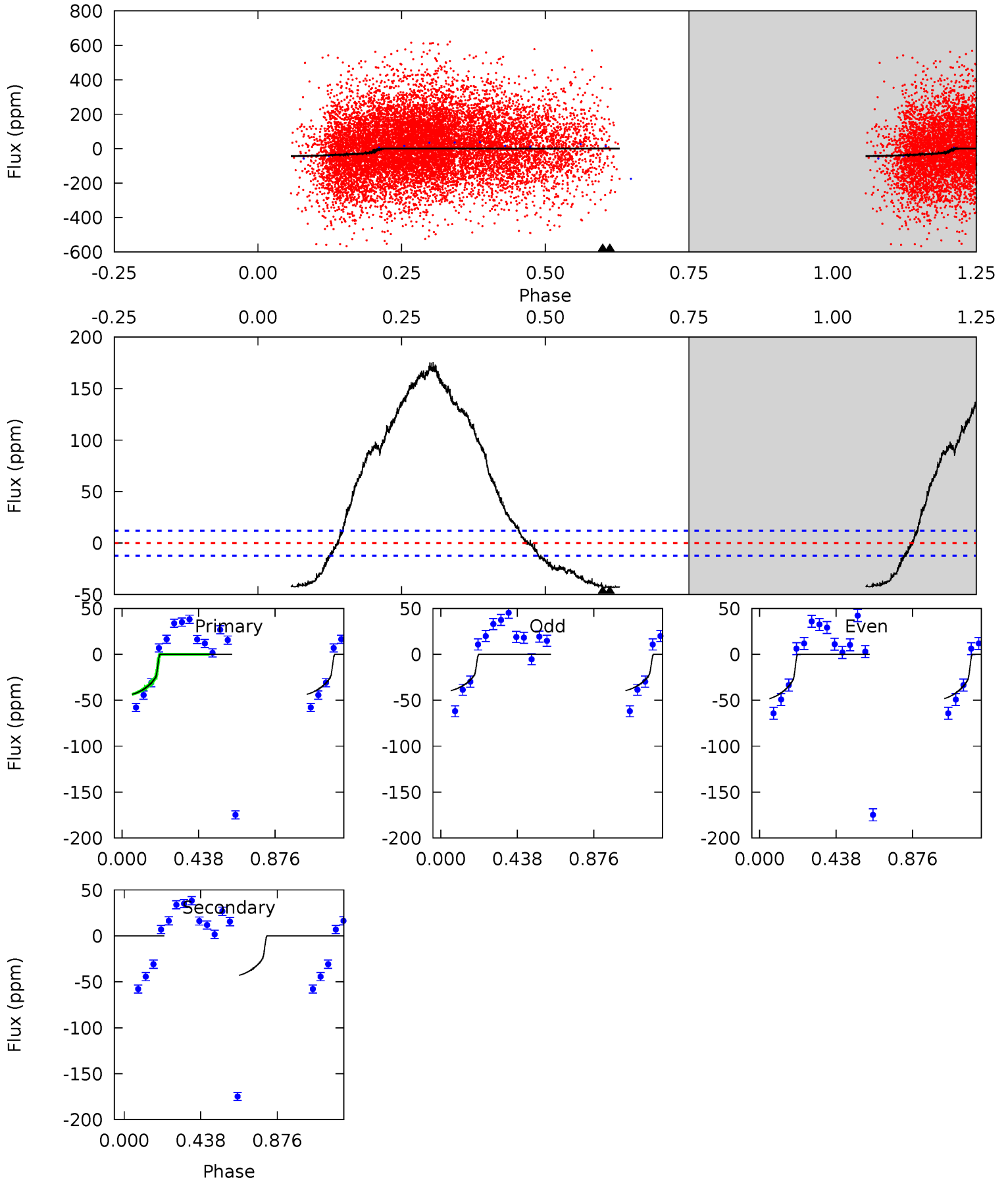
TCE 003635233-03 $P = 1.247497$ Days $T_0 = 131.806184$ (BKJD)



DV Model-Shift Uniqueness Test

003635233-03, P = 1.247672 Days, E = 131.641748 Days

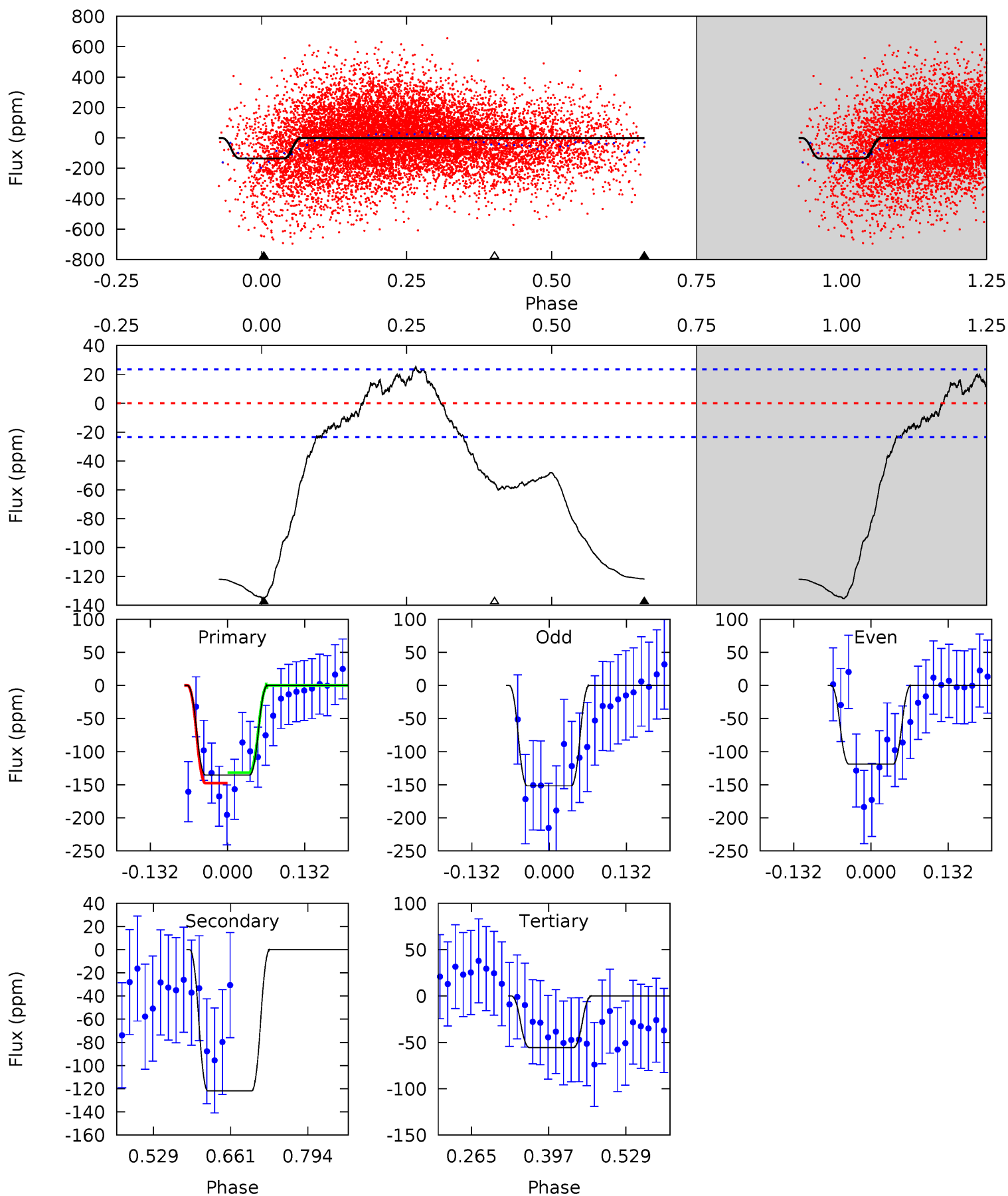
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.3	15.1	0	0	4.24	0.78	7.63	15.3	15.3	15.1	15.1	1.53	0.79	0.80	0



Alt Model-Shift Uniqueness Test

003635233-03, P = 1.247497 Days, E = 130.558687 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.9	23.3	10.6	0	4.51	1.51	5.26	15.3	25.9	12.7	23.3	3.13	1.04	0.16	1.14



Stellar Parameters For KIC 003635233

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

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

Secondary Eclipse Parameters for KIC 003635233-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-43 ± 3	$0.90^{+0.39}_{-0.36}$	2366^{+114}_{-118}	5174^{+1452}_{-742}	15^{+27}_{-8}
Alt.	-122 ± 5	$1.38^{+0.40}_{-0.41}$	2371^{+106}_{-116}	5407^{+989}_{-579}	18^{+18}_{-7}

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 $A_{obs} \gg 1.0$

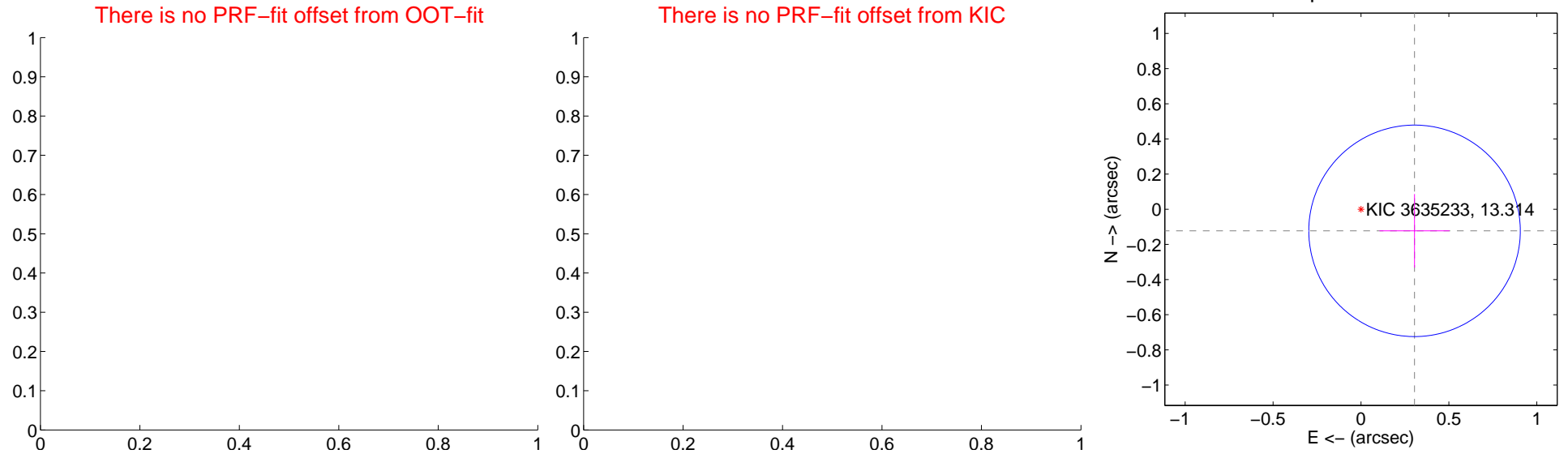
DV Centroid Data

Supplemental centroid analysis for 003635233-03. Kepler magnitude: 13.31. Transit SNR 14.06

There are 0 quarters with good PRF difference image offsets

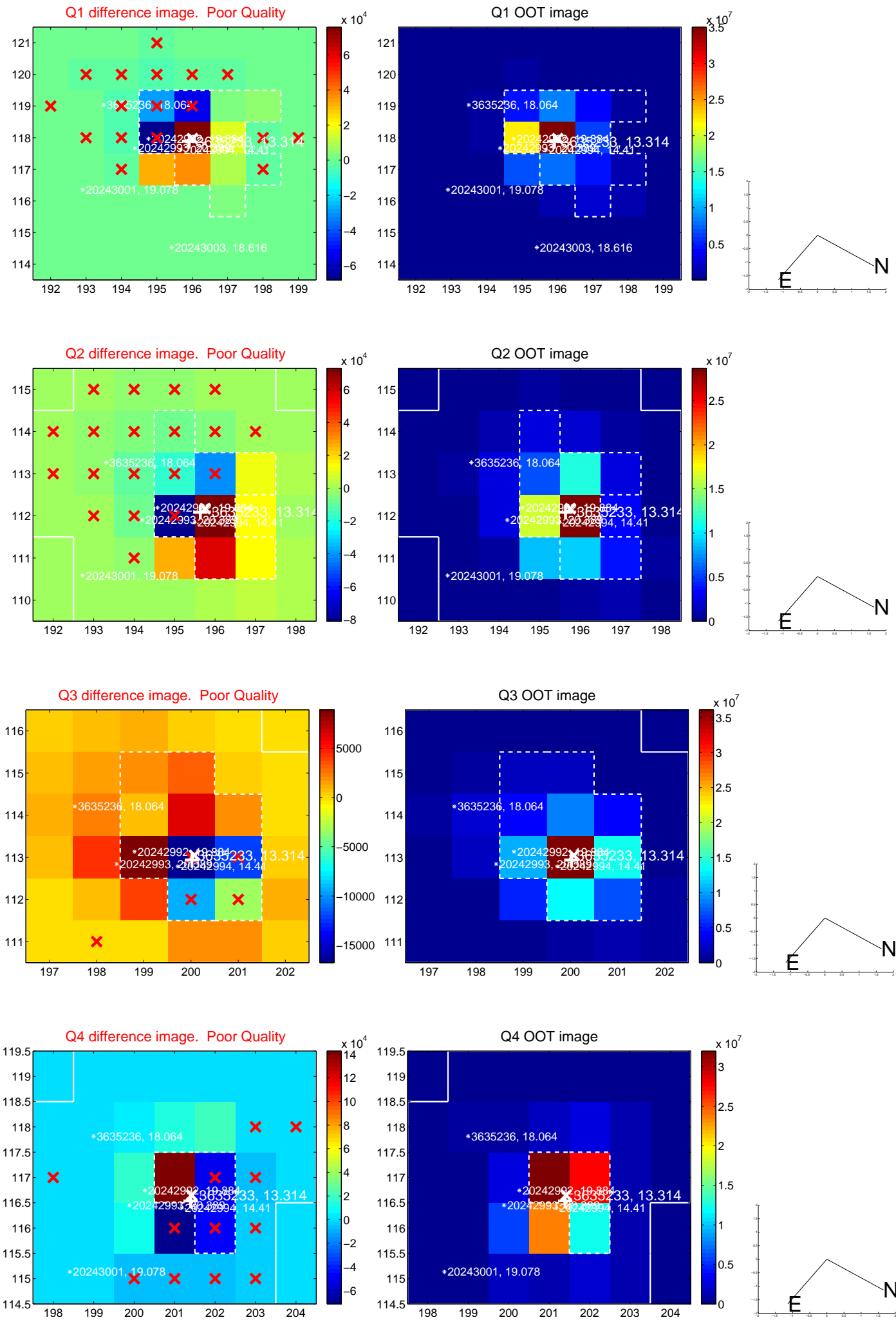
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	0.33 ± 0.20	1.64	-0.30 ± 0.20	-0.12 ± 0.21

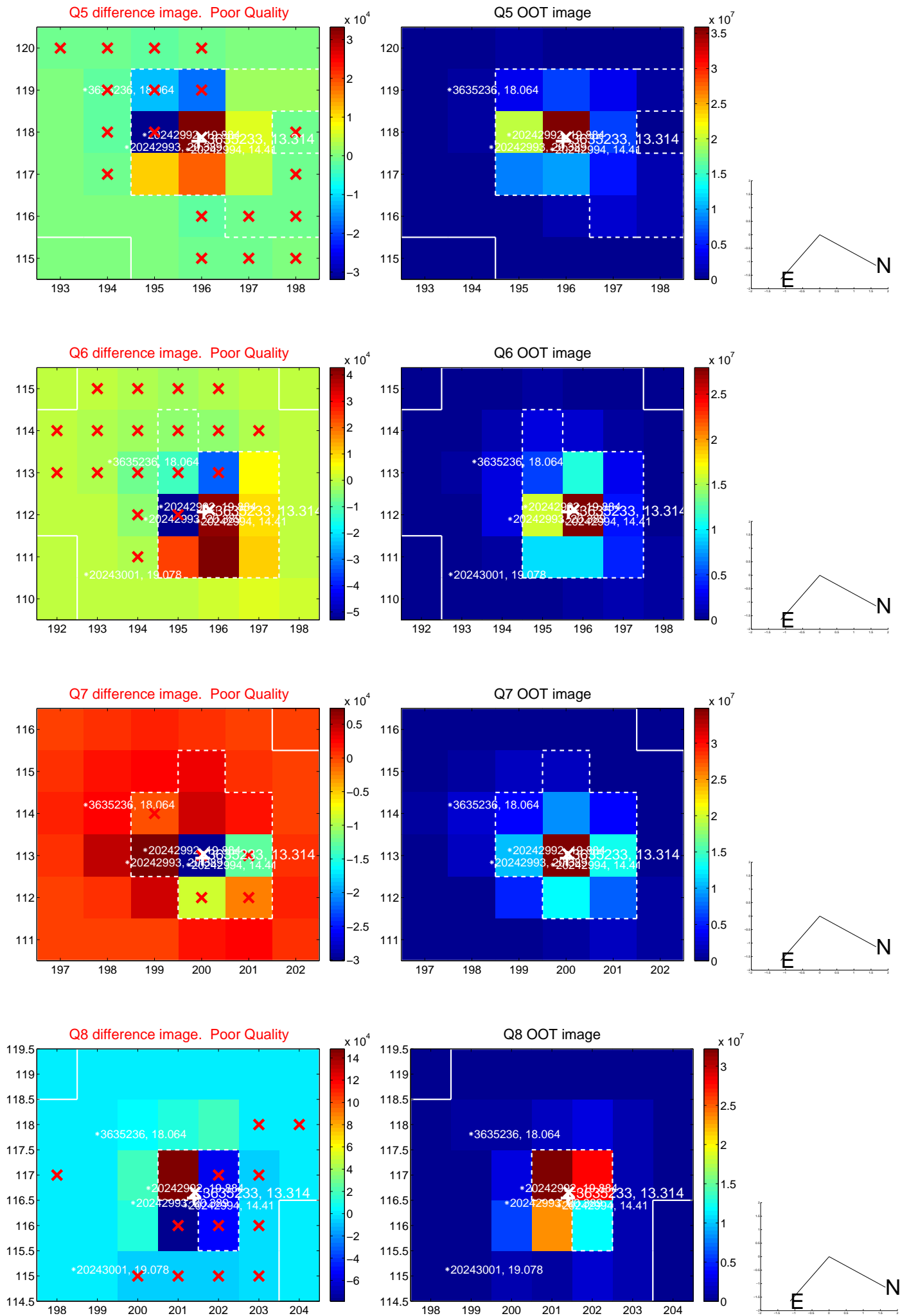


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

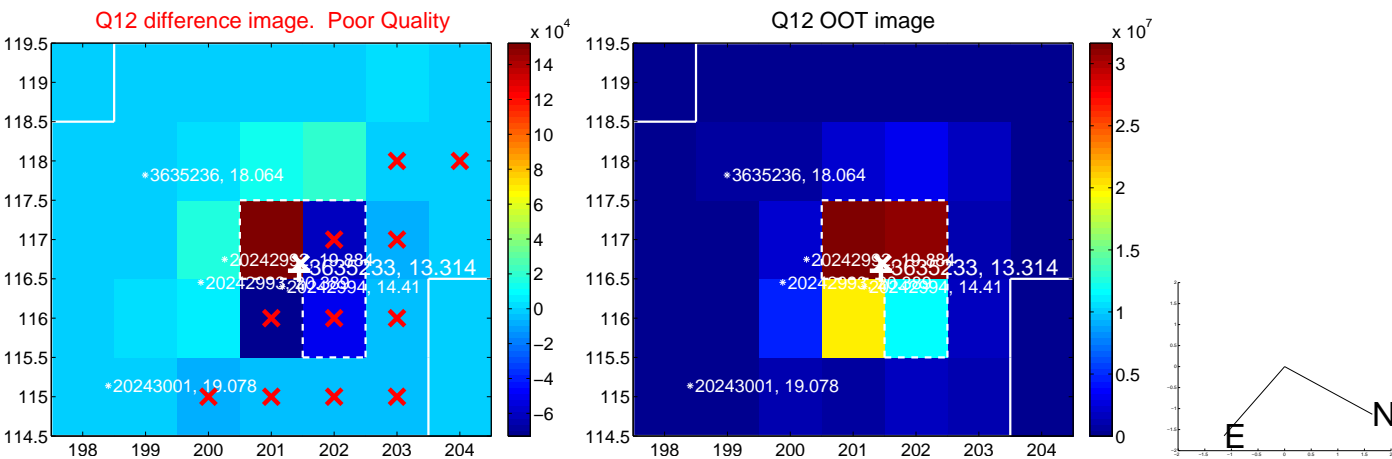
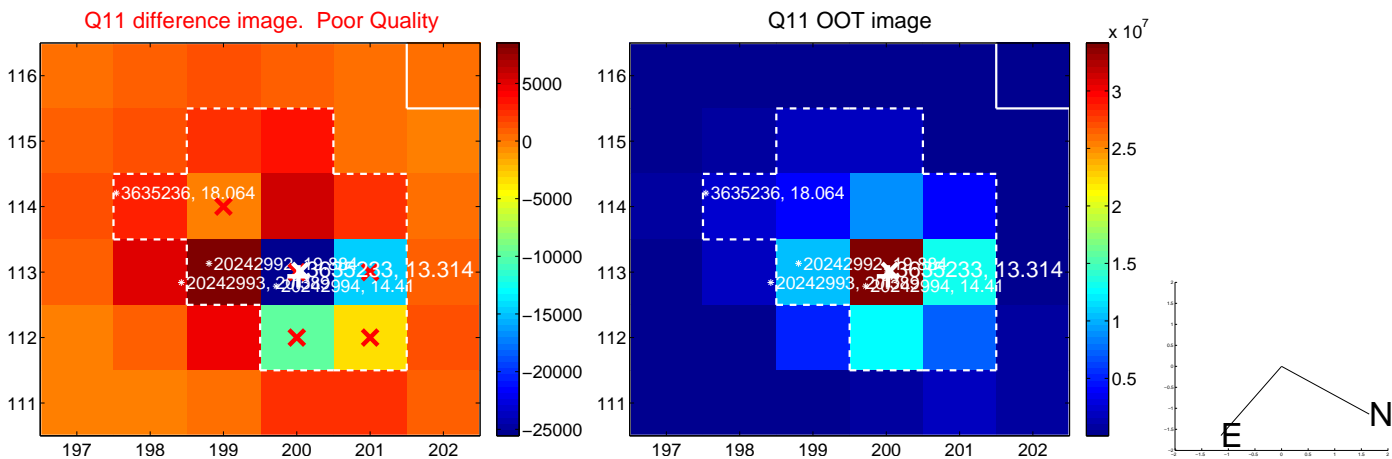
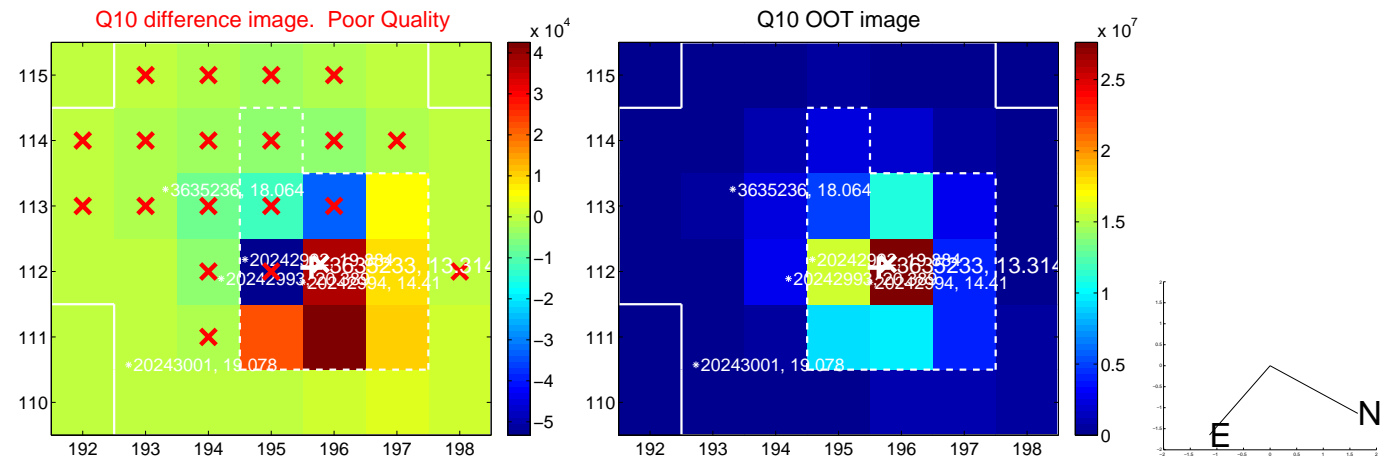
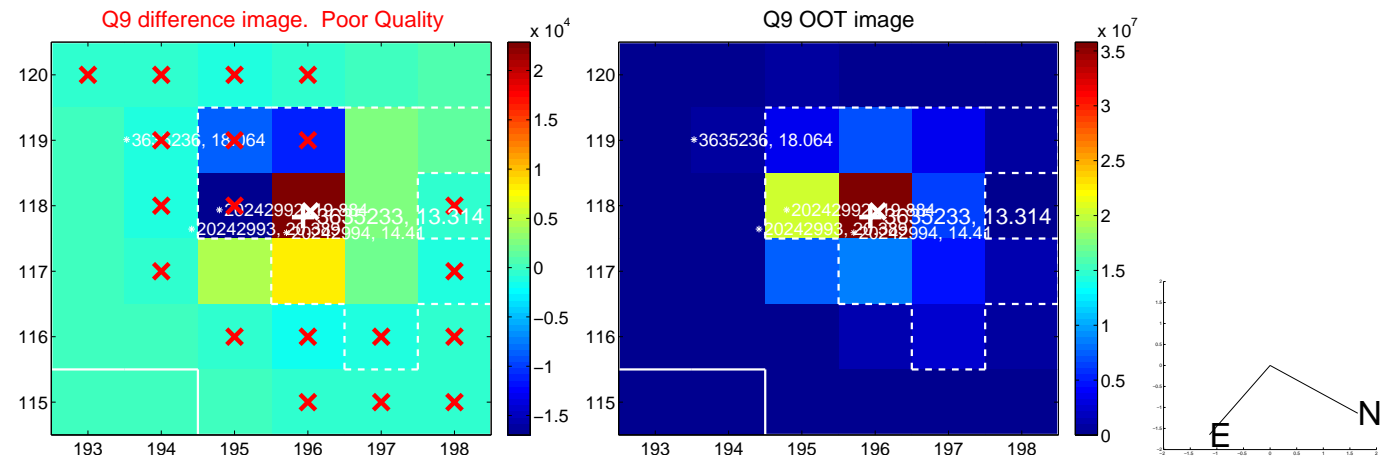
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



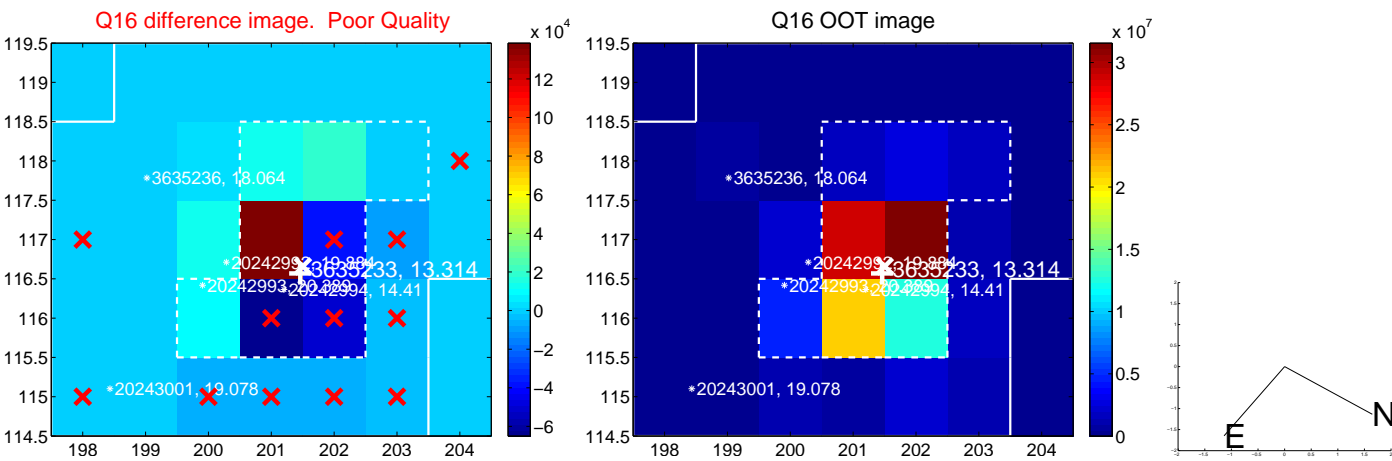
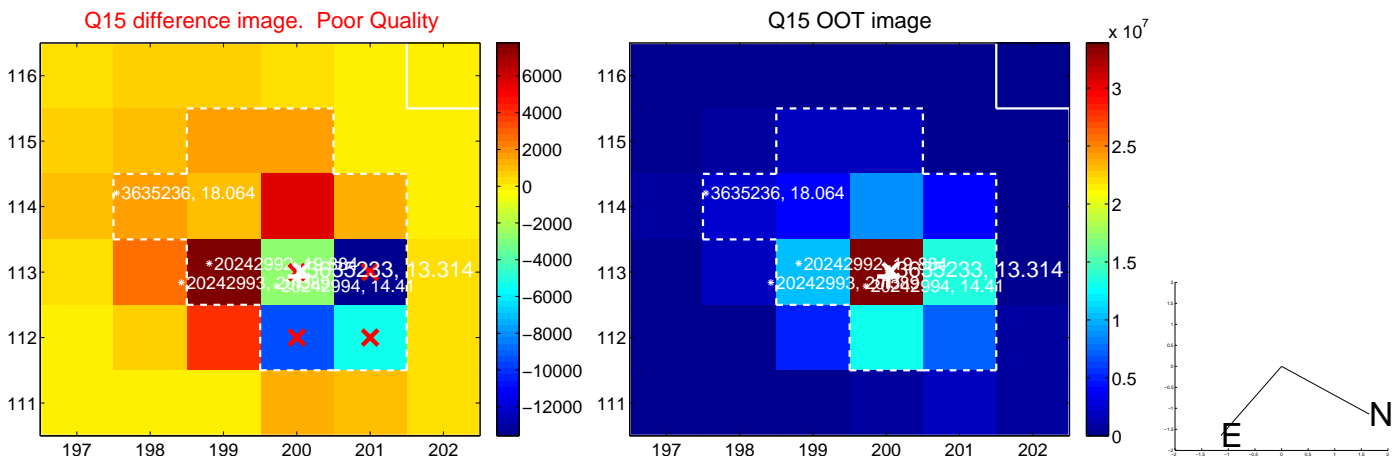
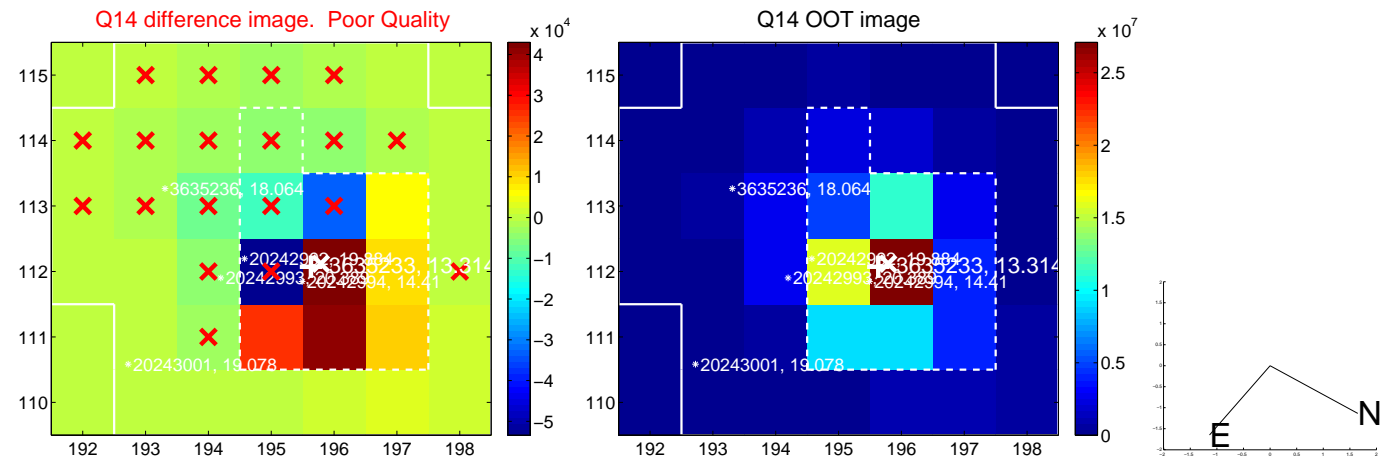
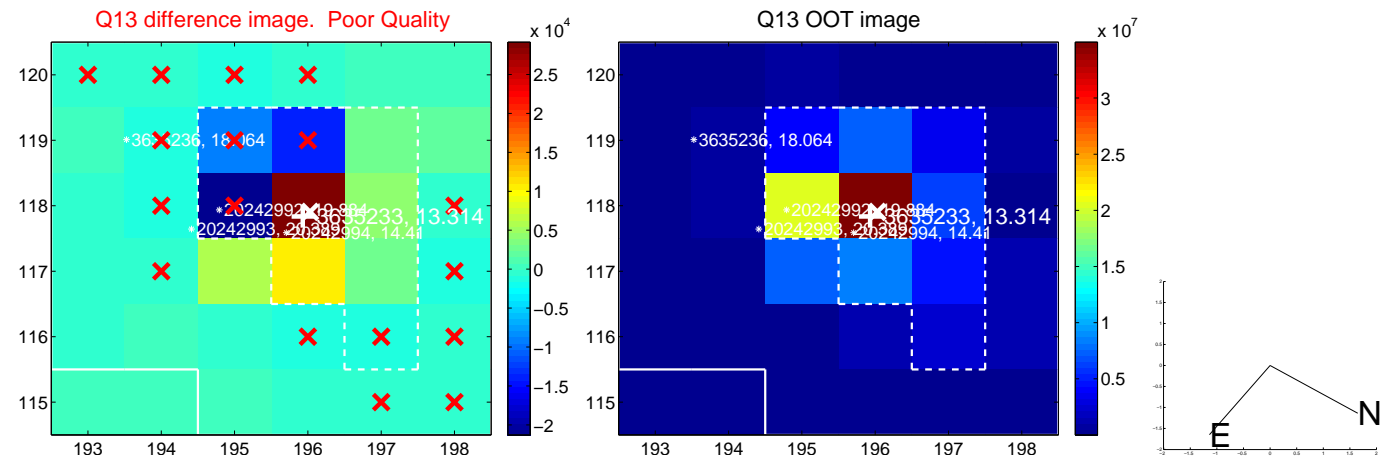
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



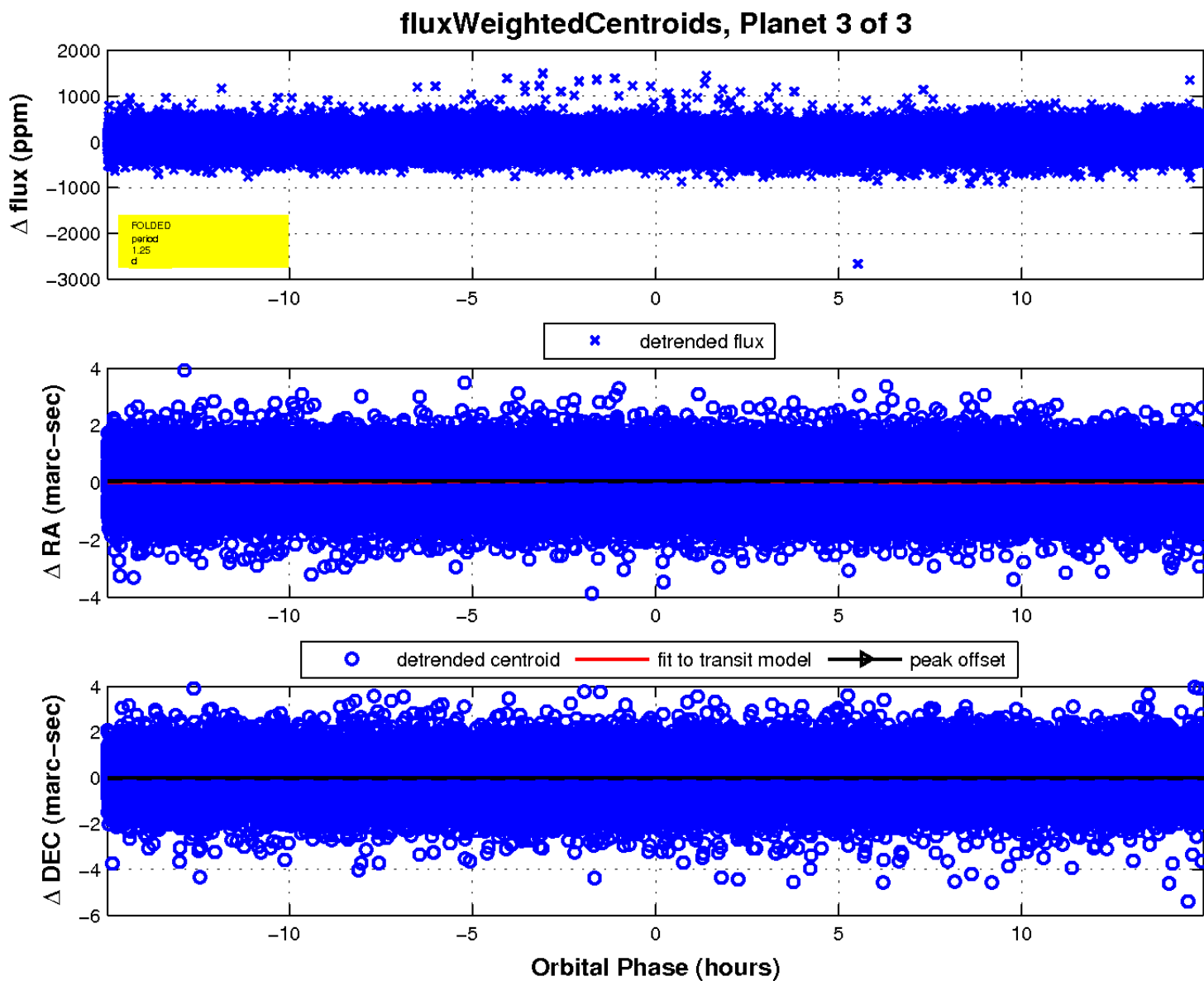
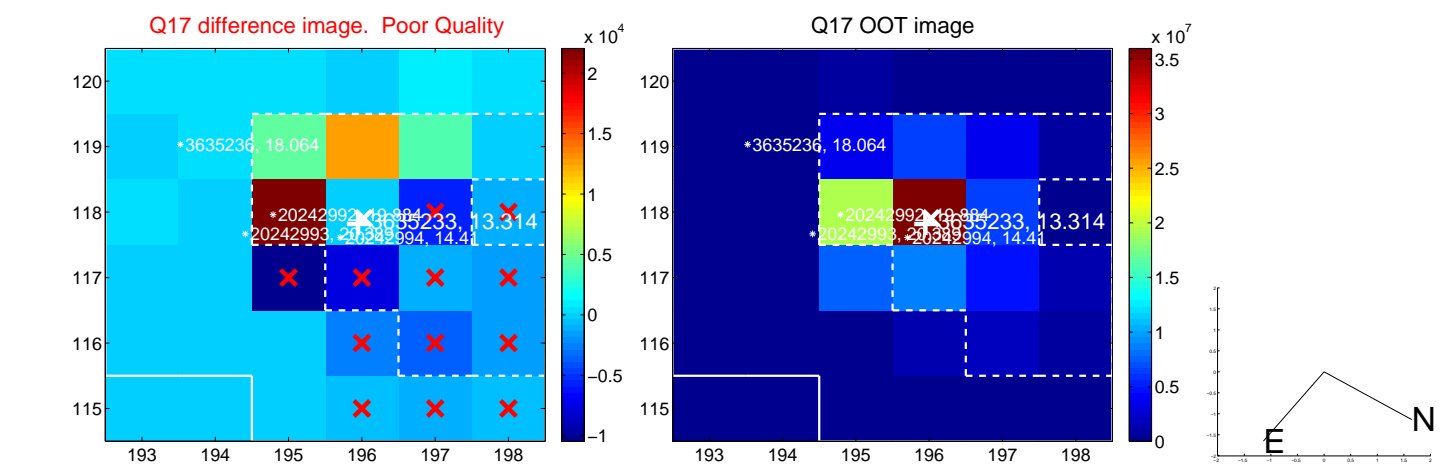
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

