

KIC 007585445

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})
007585445-01	OBS	No	1.332387	132.316880	165.5	3.722	13.0	12.9	2.15	7723	3.19	18457.07
007585445-02	OBS	No	1.332332	132.776245	133.6	4.820	12.4	12.1	2.15	7723	2.90	18458.10
007585445-03	OBS	No	1.332344	131.904021	168.7	4.027	13.7	15.7	2.15	7723	3.28	18457.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007585445-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007585445-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD
007585445-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_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.

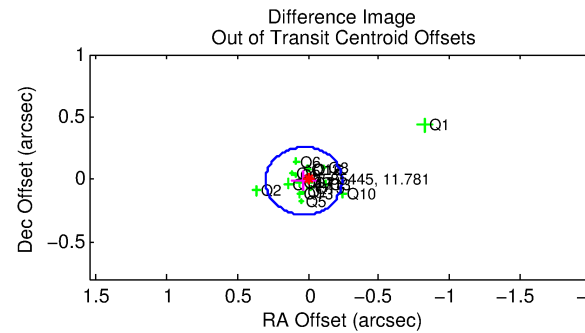
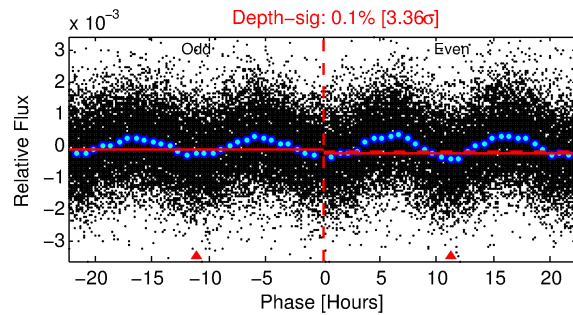
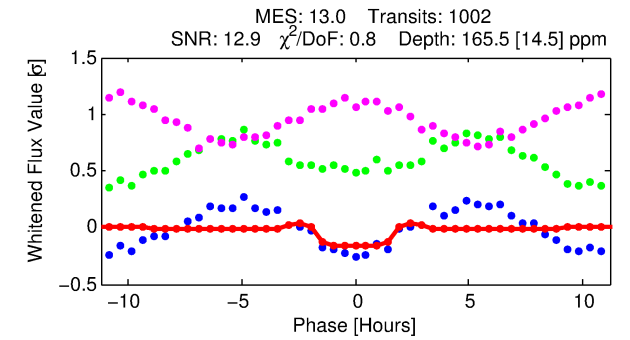
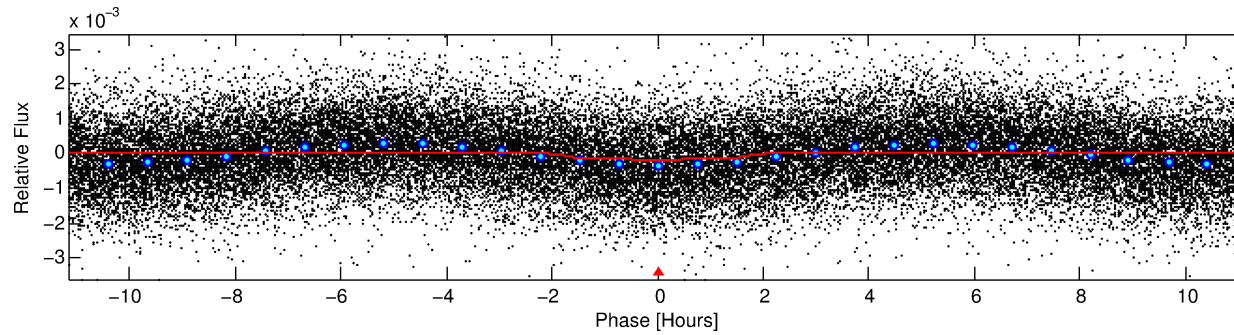
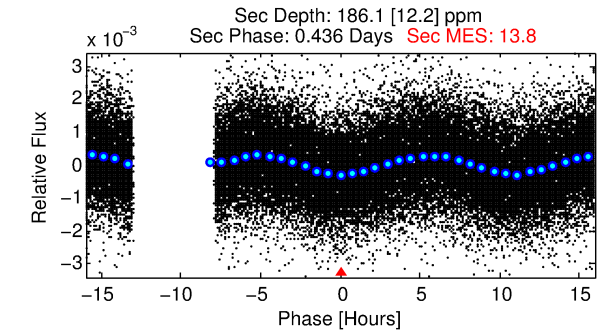
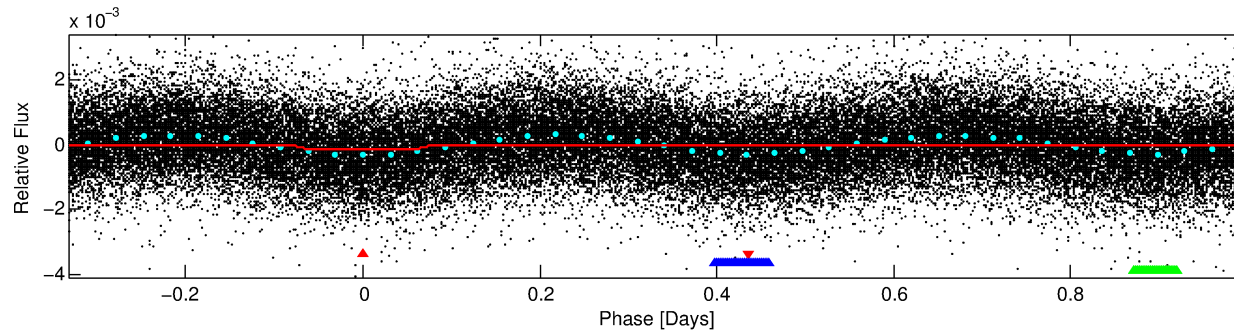
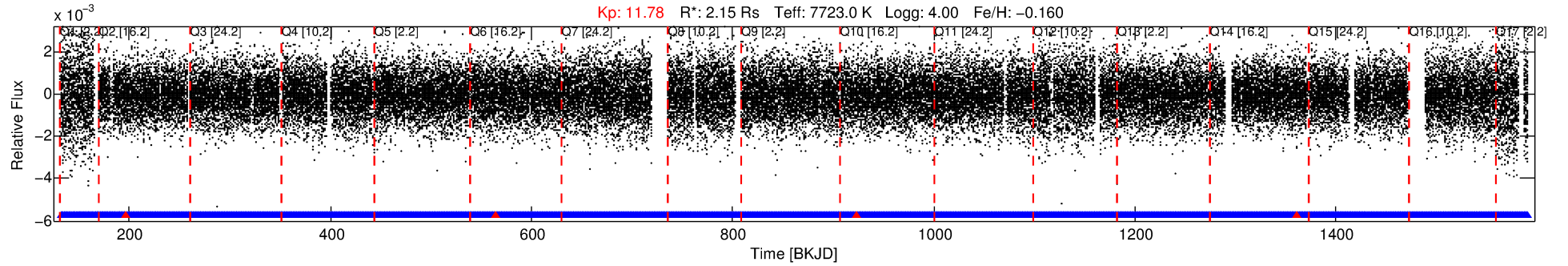
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007585445-01

No Significant Match Found

DV One-Page Summary

KIC: 7585445 Candidate: 1 of 3 Period: 1.332 d



DV Fit Results:

Period = 1.33239 [0.00001] d
Epoch = 132.3169 [0.0030] BKJD
 $R_p/R^* = 0.0136$ [0.0044]
 $a/R^* = 1.65$ [1.95]
 $b = 0.88$ [0.47]
 $S_{\text{eff}} = 18457.07$ [7672.60]
 $T_{\text{eq}} = 2972$ [309] K
 $R_p = 3.20$ [1.37] R_e
 $a = 0.0283$ [0.0071] AU
 $A_g = 8.04$ [6.03] [1.17σ]
 $T_{\text{eff}} = 7739$ [1288] K [3.60σ]

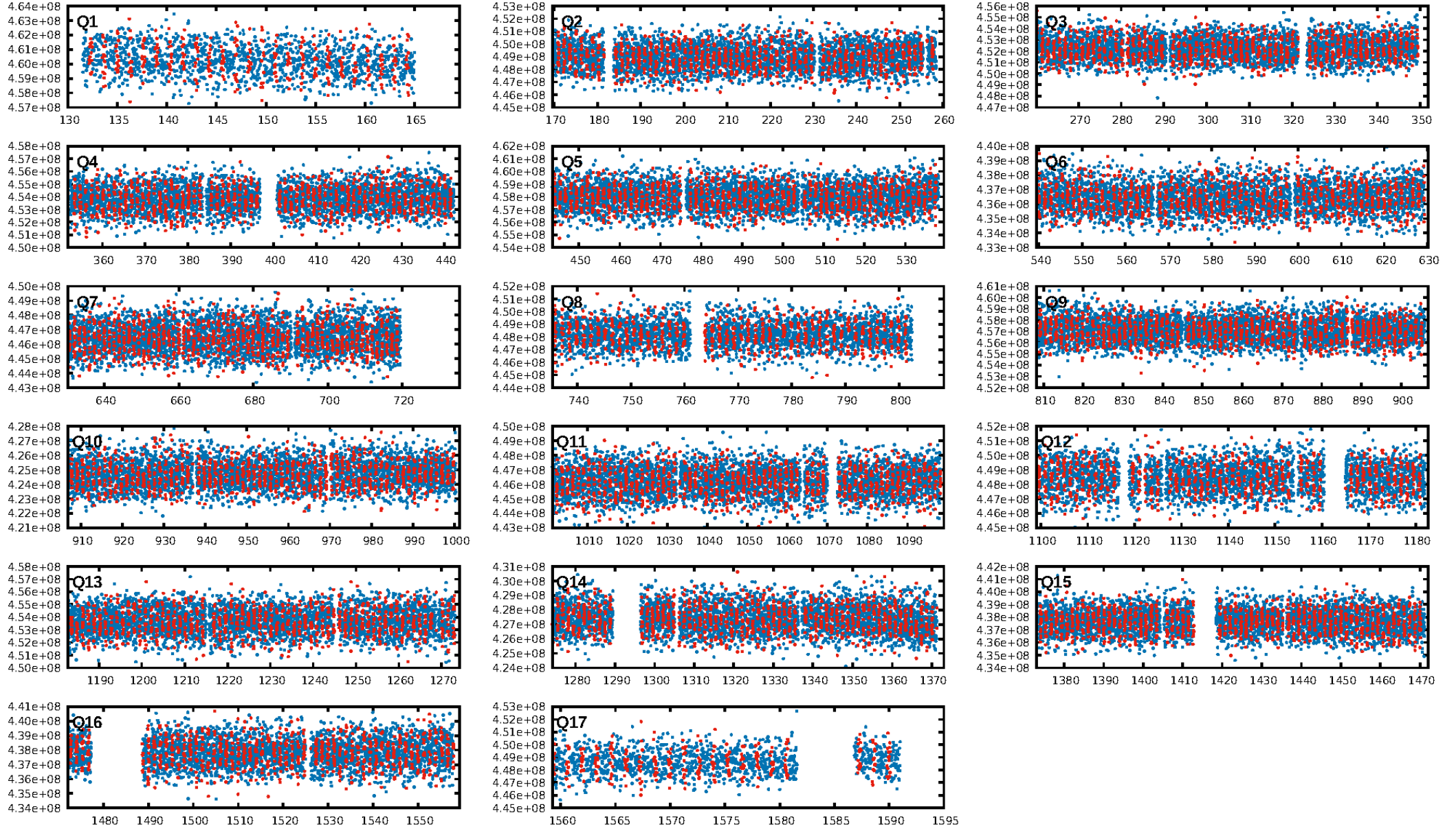
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [953/957]
GhostDiagnostic-chr: 1.18
Centroid-sig: 11.8%
Centroid-so: 0.186 arcsec [2.33σ]
OotOffset-rm: 0.036 arcsec [0.39σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.049 arcsec [0.61σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

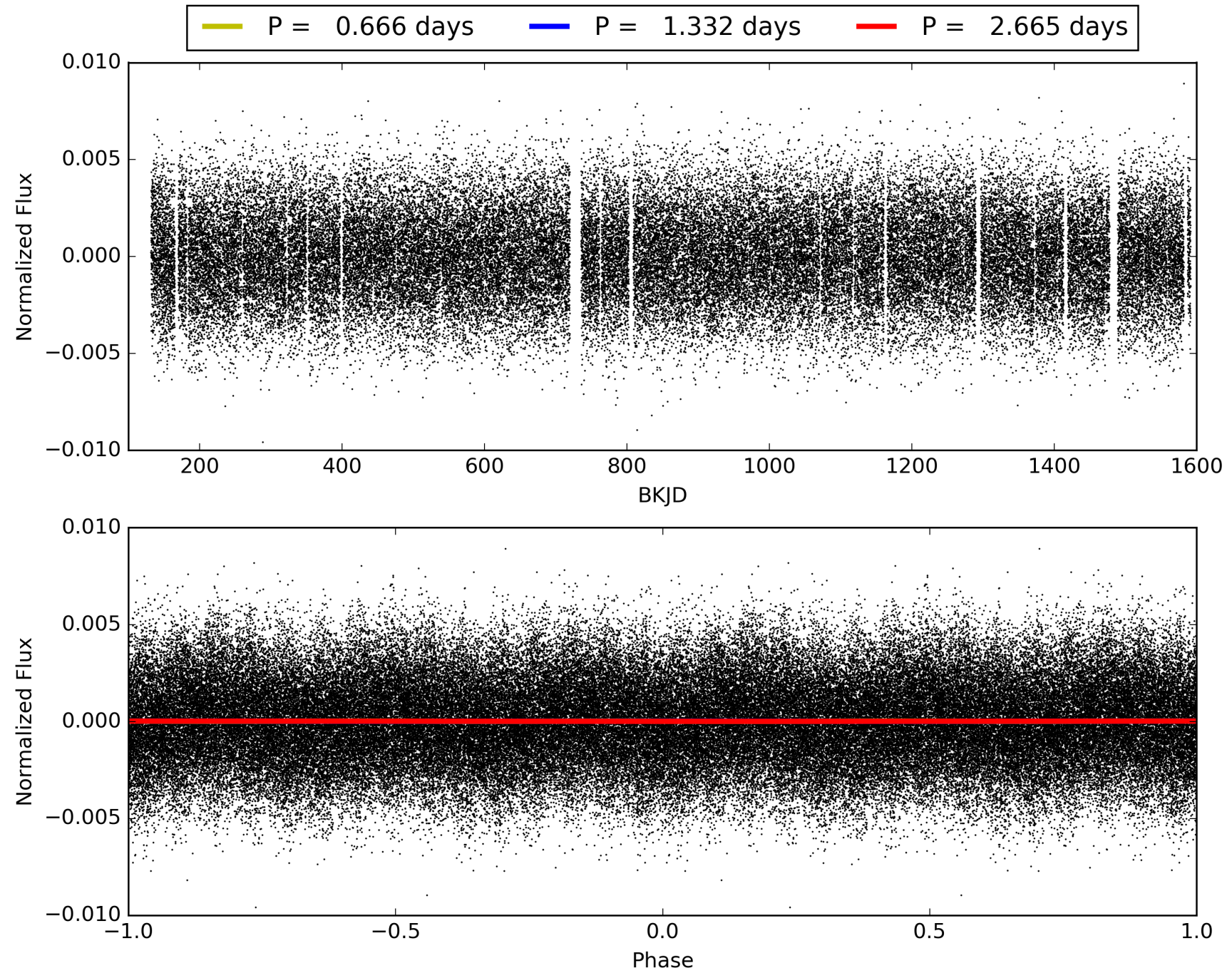
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 04:51:18 Z

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

TCE 007585445-01, PDC Light Curves

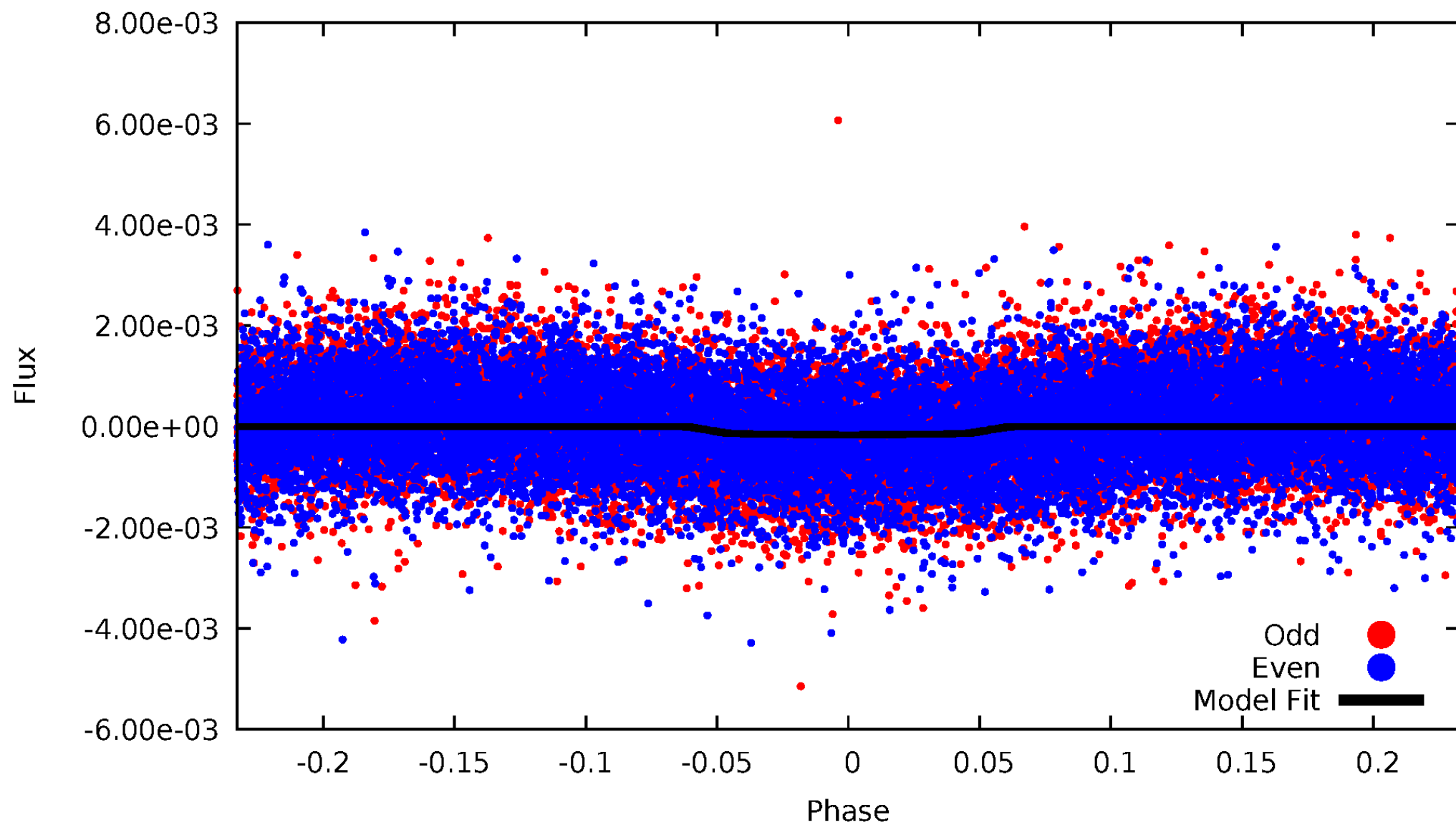


TCE 007585445-01



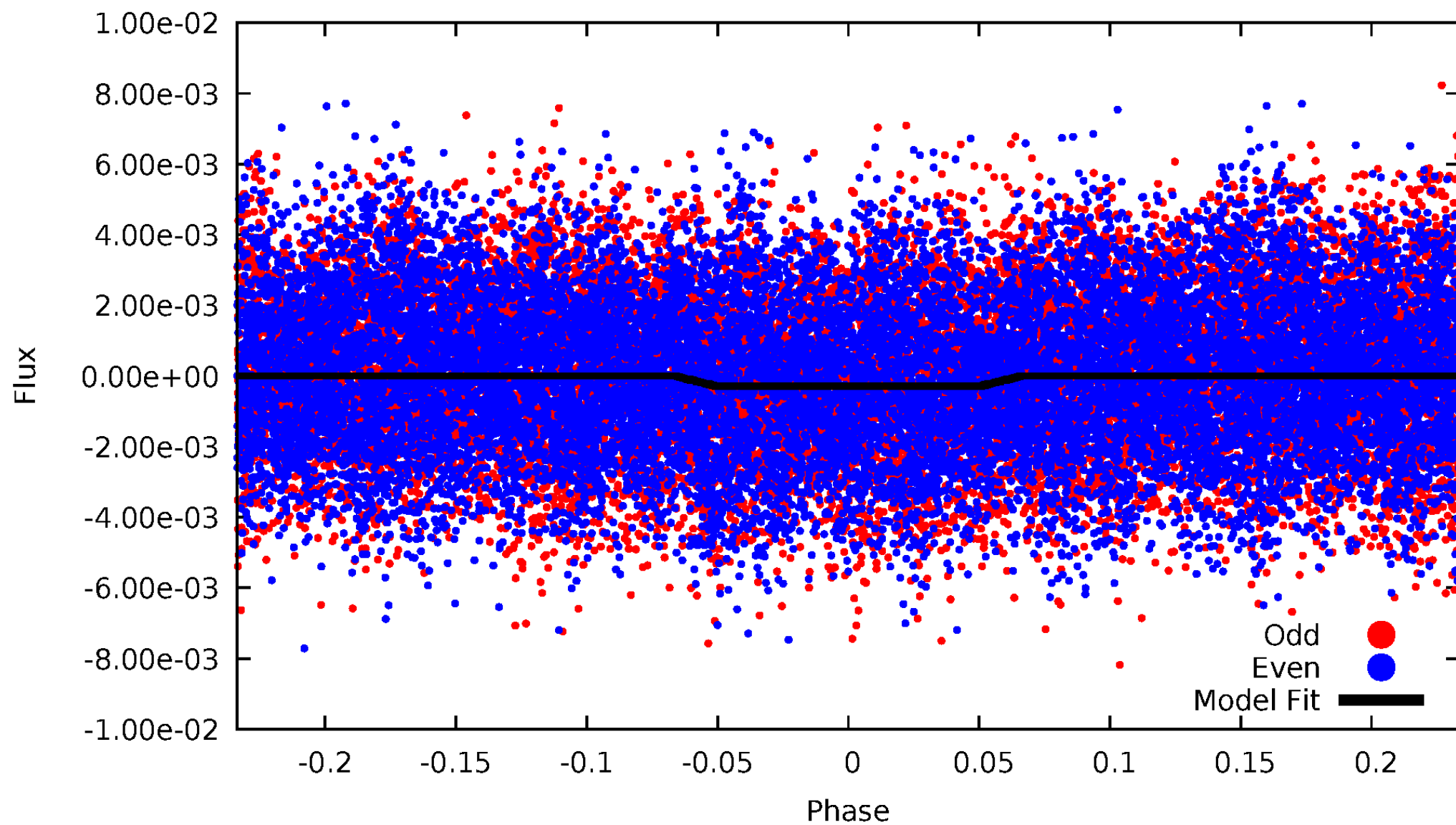
DV Odd/Even

TCE 007585445-01

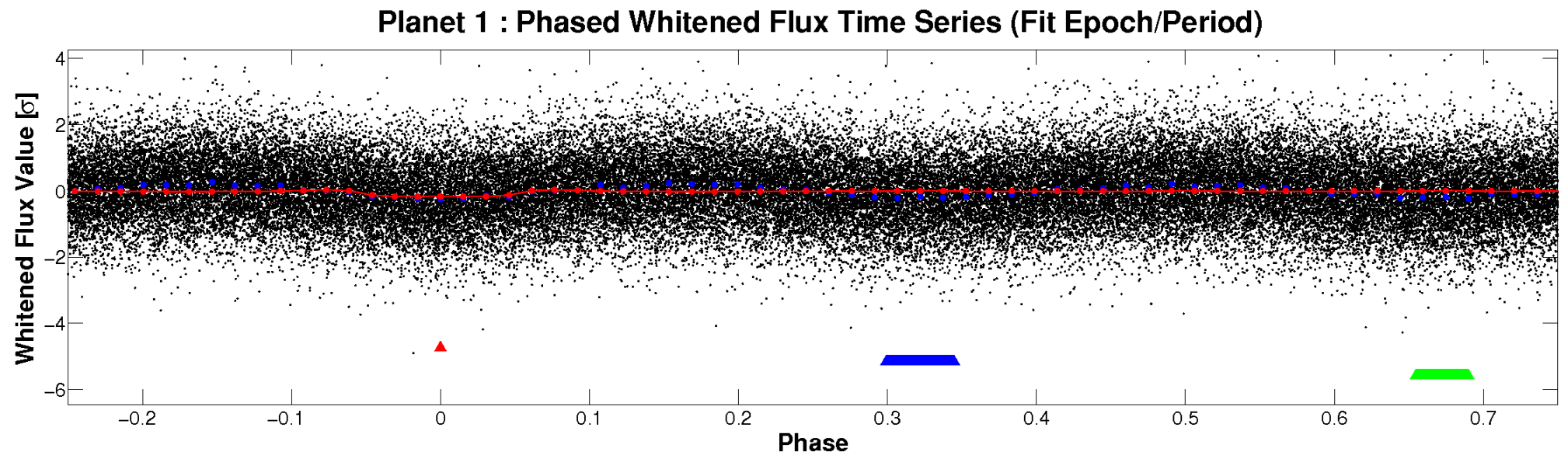
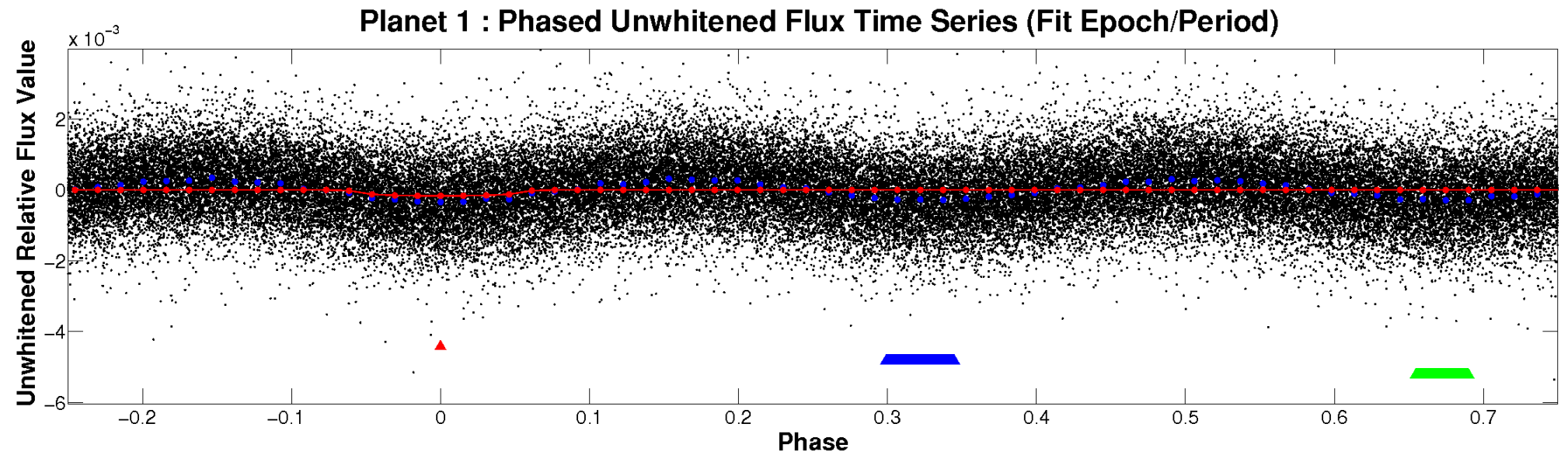


ALT Odd/Even

TCE 007585445-01

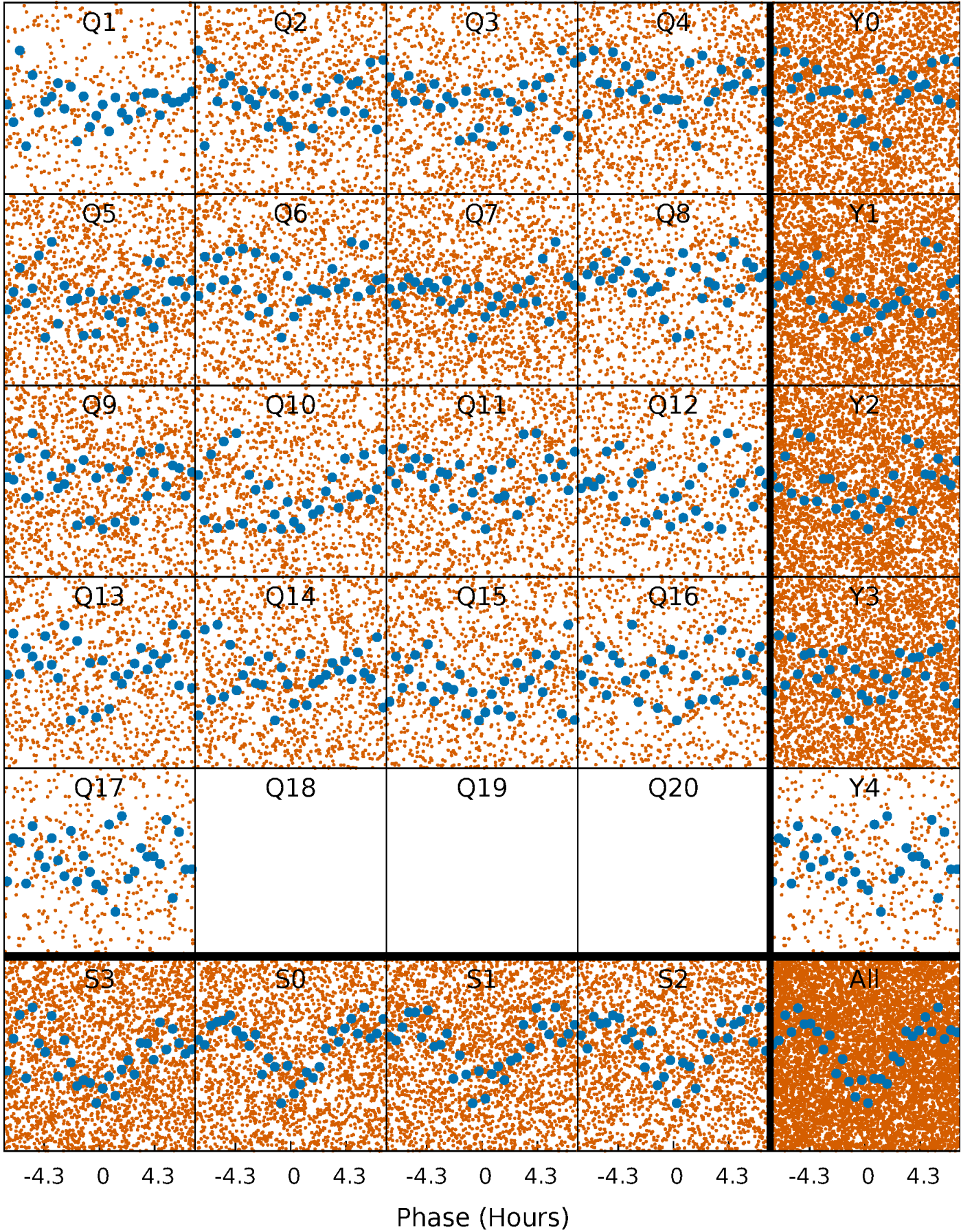


Non-Whitened Vs. Whitened Light Curve



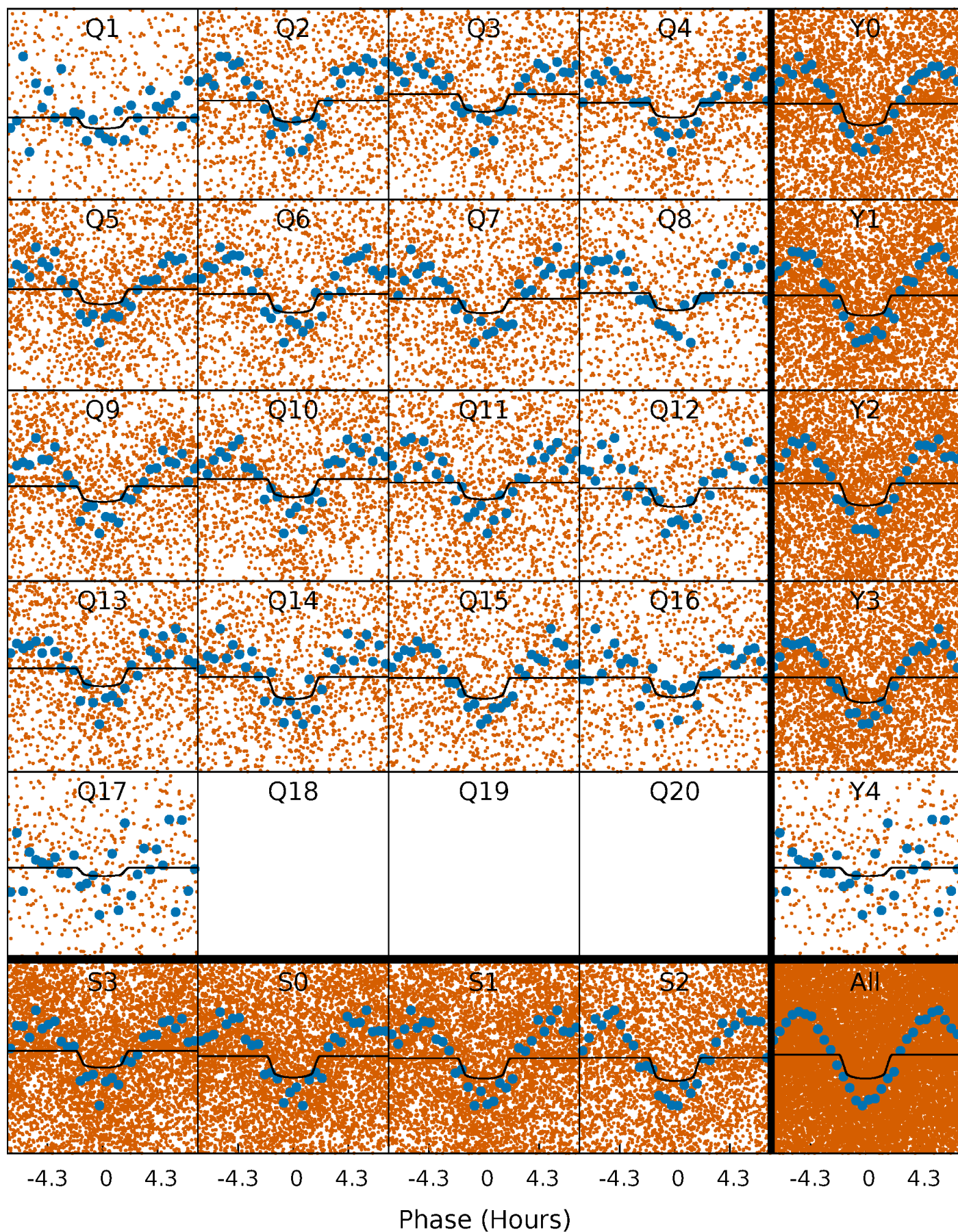
PDC Quarter-Phased Transit Curves

TCE 007585445-01 P= 1.332387 Days $T_0=132.316880$ (BKJD)



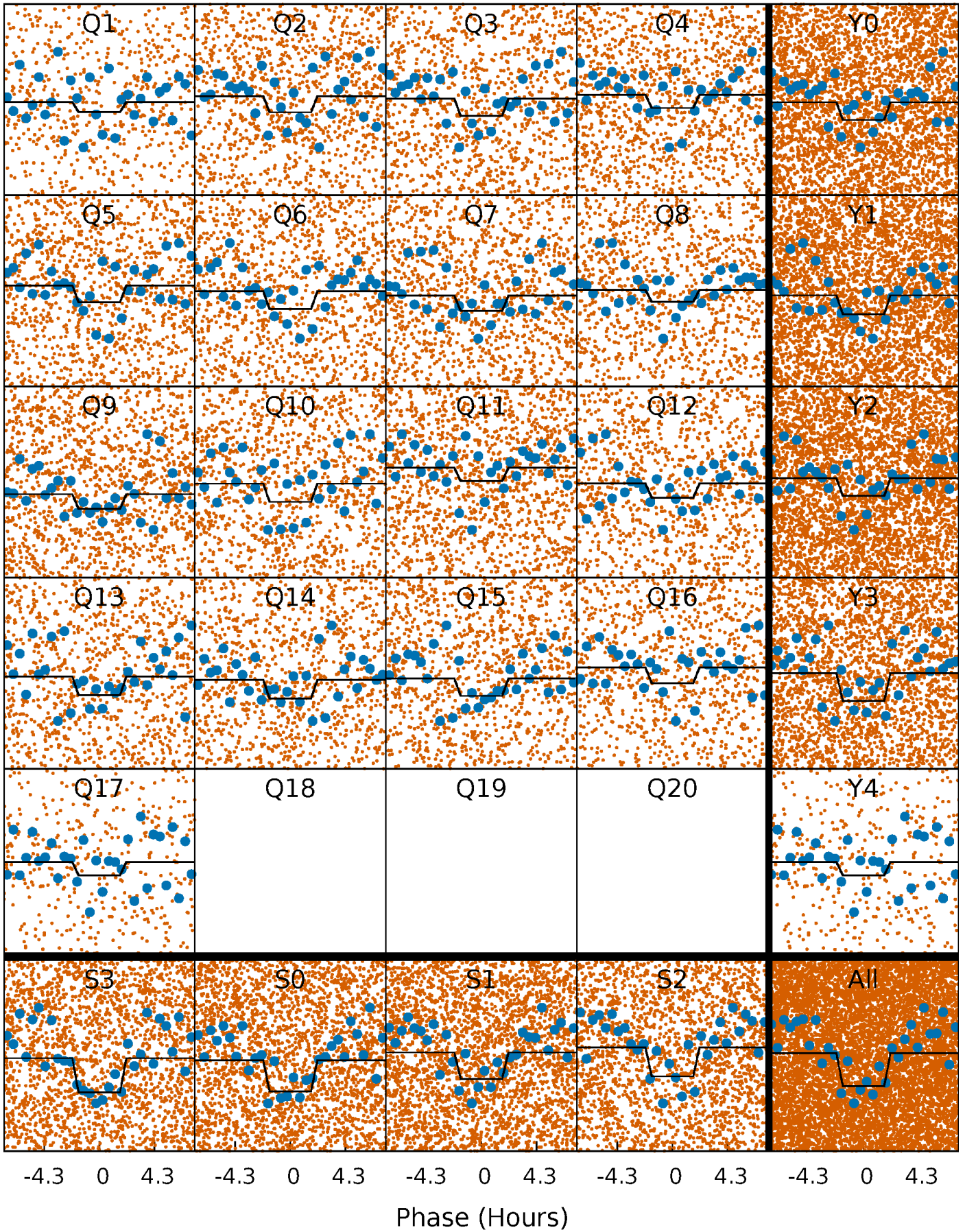
DV Quarter-Phased Transit Curves

TCE 007585445-01 P= 1.332387 Days $T_0=132.316880$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

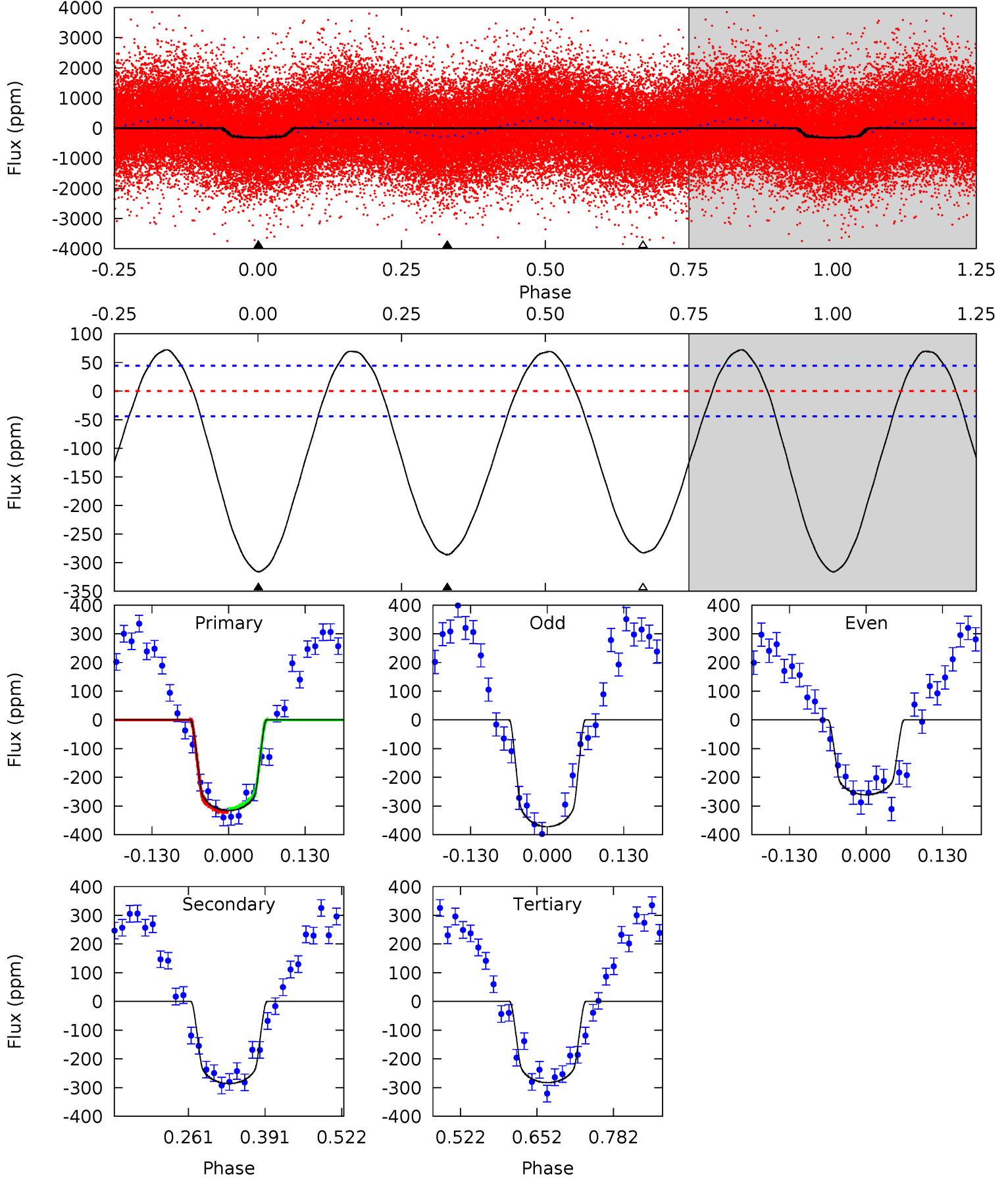
TCE 007585445-01 P= 1.332393 Days $T_0=132.322080$ (BKJD)



DV Model-Shift Uniqueness Test

007585445-01, P = 1.332387 Days, E = 130.984493 Days

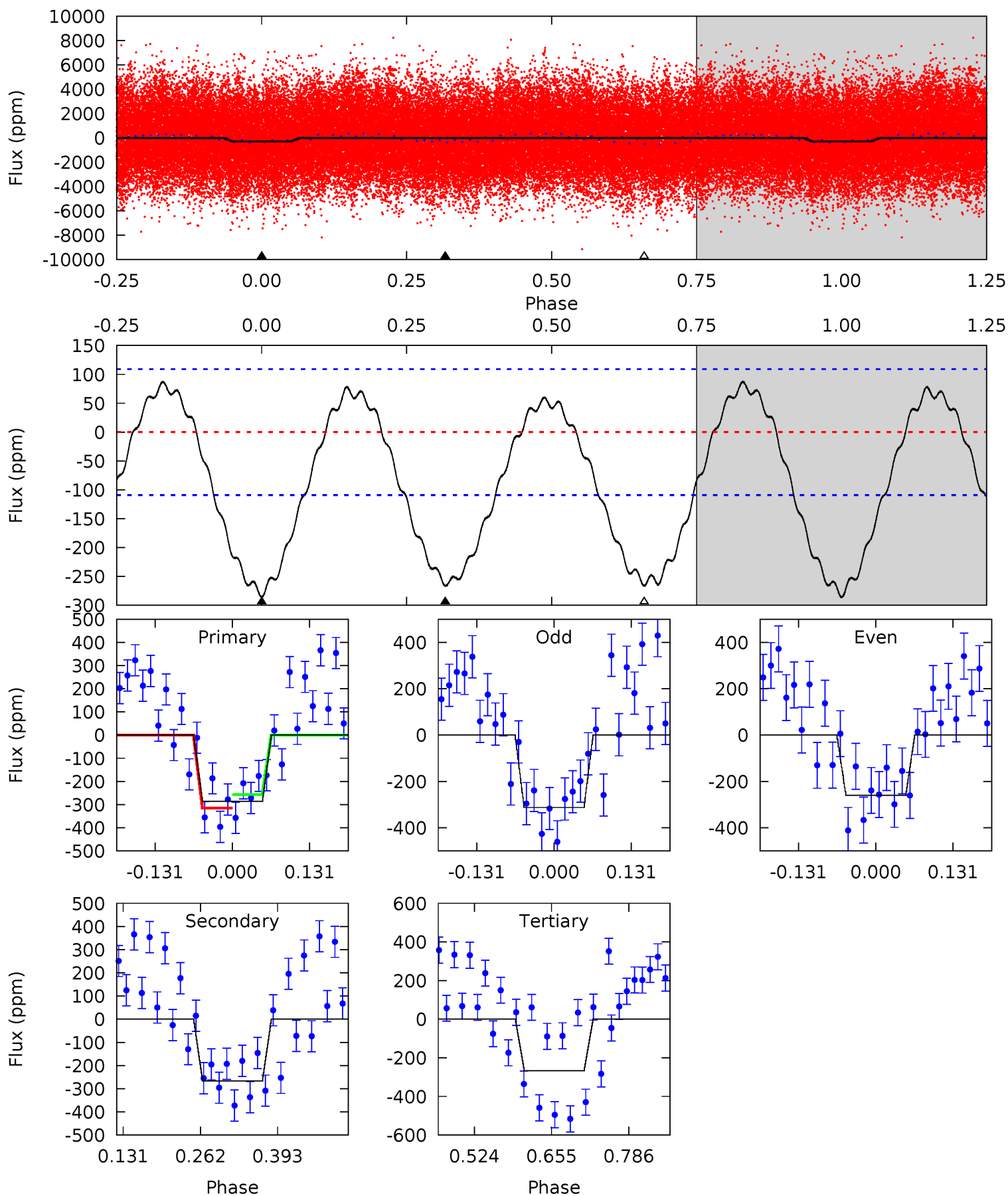
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.2	29.2	28.8	0	4.51	1.51	13.1	3.40	32.2	0.34	29.2	5.72	0.99	0.19	0.68



Alt Model-Shift Uniqueness Test

007585445-01, P = 1.332393 Days, E = 130.989687 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.8	11.0	11.0	0	4.51	1.51	4.96	0.81	11.8	0.01	11.0	1.08	1.03	0.23	1.21



Stellar Parameters For KIC 007585445

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7723^{+211}_{-316}	$4.003^{+0.216}_{-0.144}$	$-0.160^{+0.200}_{-0.350}$	$2.155^{+0.502}_{-0.614}$	$1.703^{+0.198}_{-0.322}$	$0.239^{+0.301}_{-0.100}$
	+3%/-4%	+5%/-4%	+125%/-219%	+23%/-28%	+12%/-19%	+126%/-42%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007585445-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-286 ± 10	$3.11^{+1.18}_{-1.04}$	4114^{+309}_{-333}	8764^{+3178}_{-1486}	13^{+17}_{-6}
Alt.	-267 ± 24	$3.86^{+1.18}_{-1.10}$	4104^{+301}_{-327}	7410^{+1609}_{-980}	$7.781^{+7.185}_{-3.105}$

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

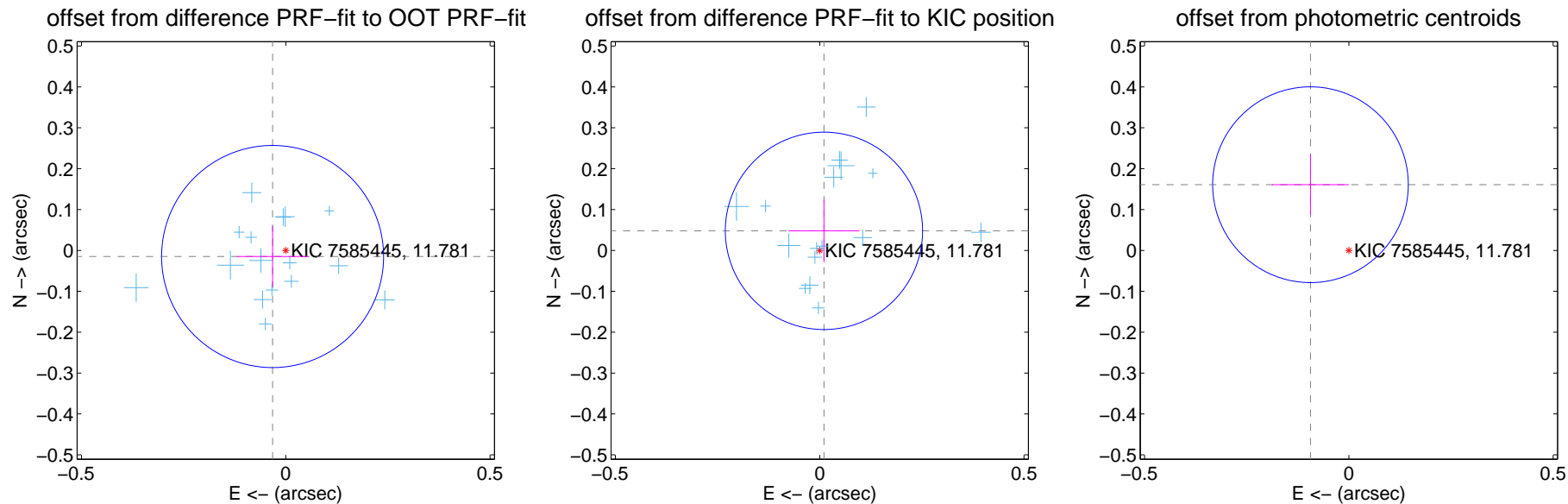
DV Centroid Data

Supplemental centroid analysis for 007585445-01. **Kepler magnitude: 11.78.** Transit SNR 12.85

There are 17 quarters with good PRF difference image offsets

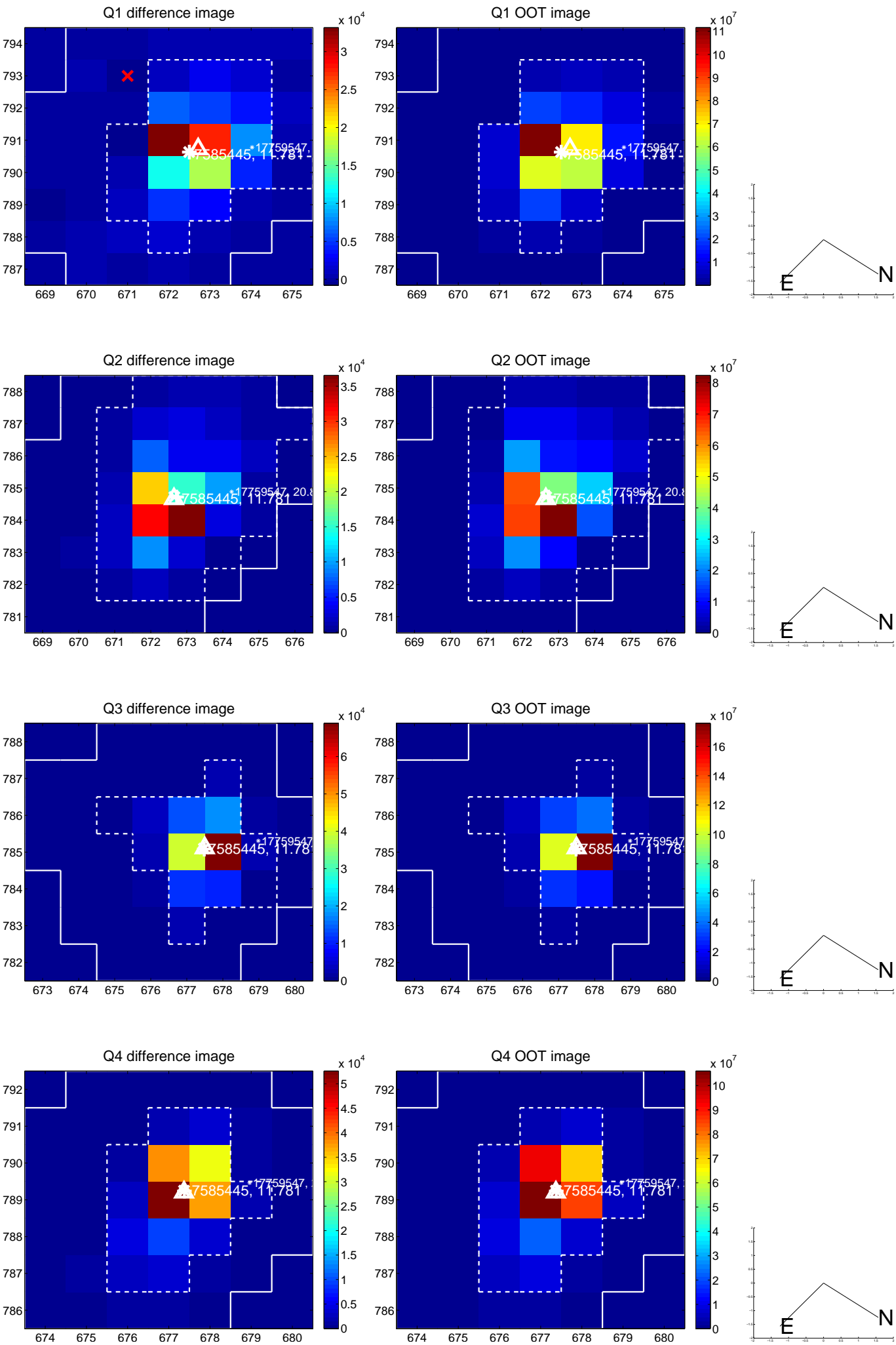
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.036 ± 0.091	0.39	0.032 ± 0.087	-0.015 ± 0.074
PRF-fit source offset from KIC position	0.049 ± 0.080	0.61	-0.010 ± 0.087	0.048 ± 0.077
photometric centroid source offset	0.19 ± 0.08	2.33	0.09 ± 0.09	0.16 ± 0.07

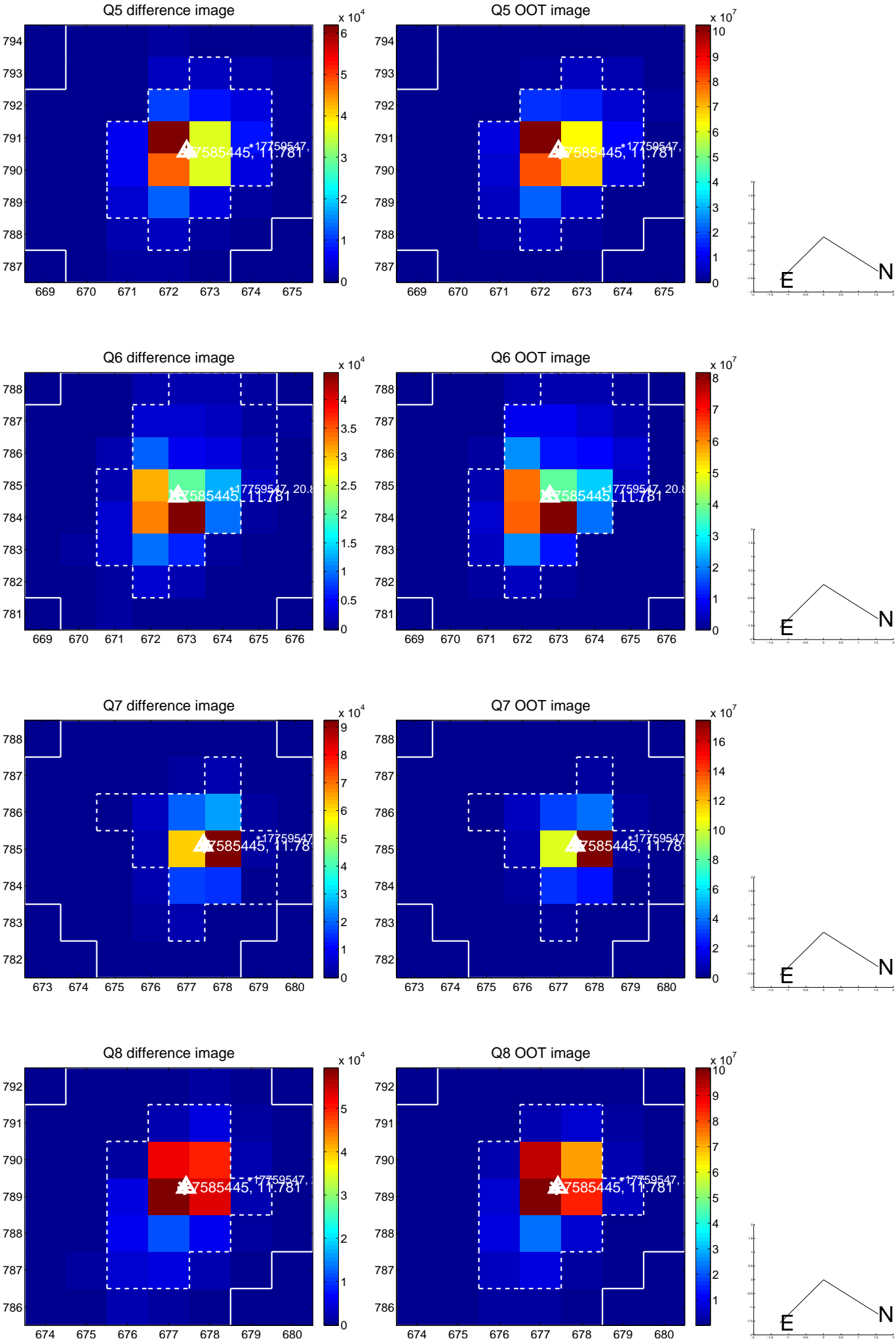


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

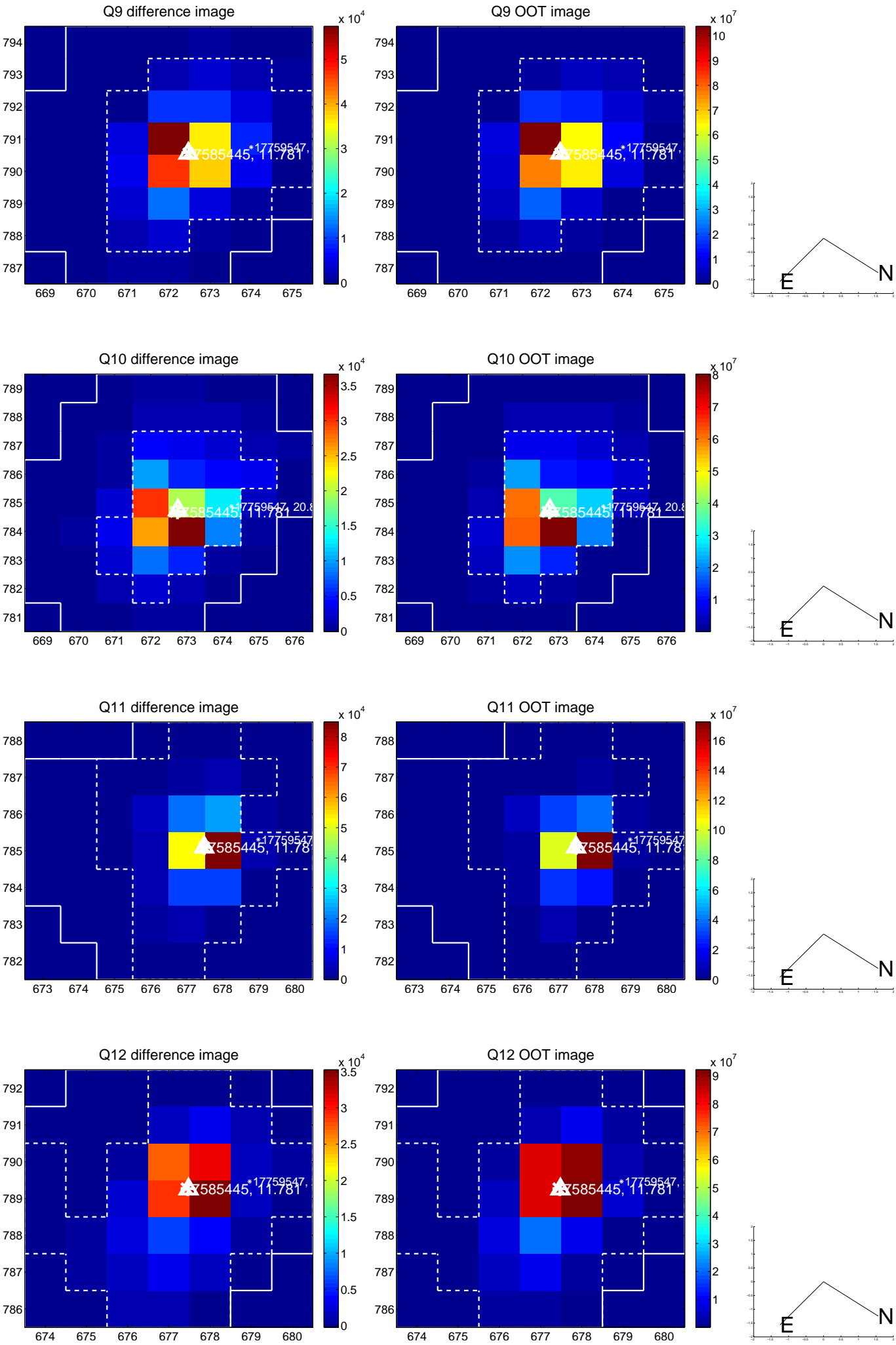
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



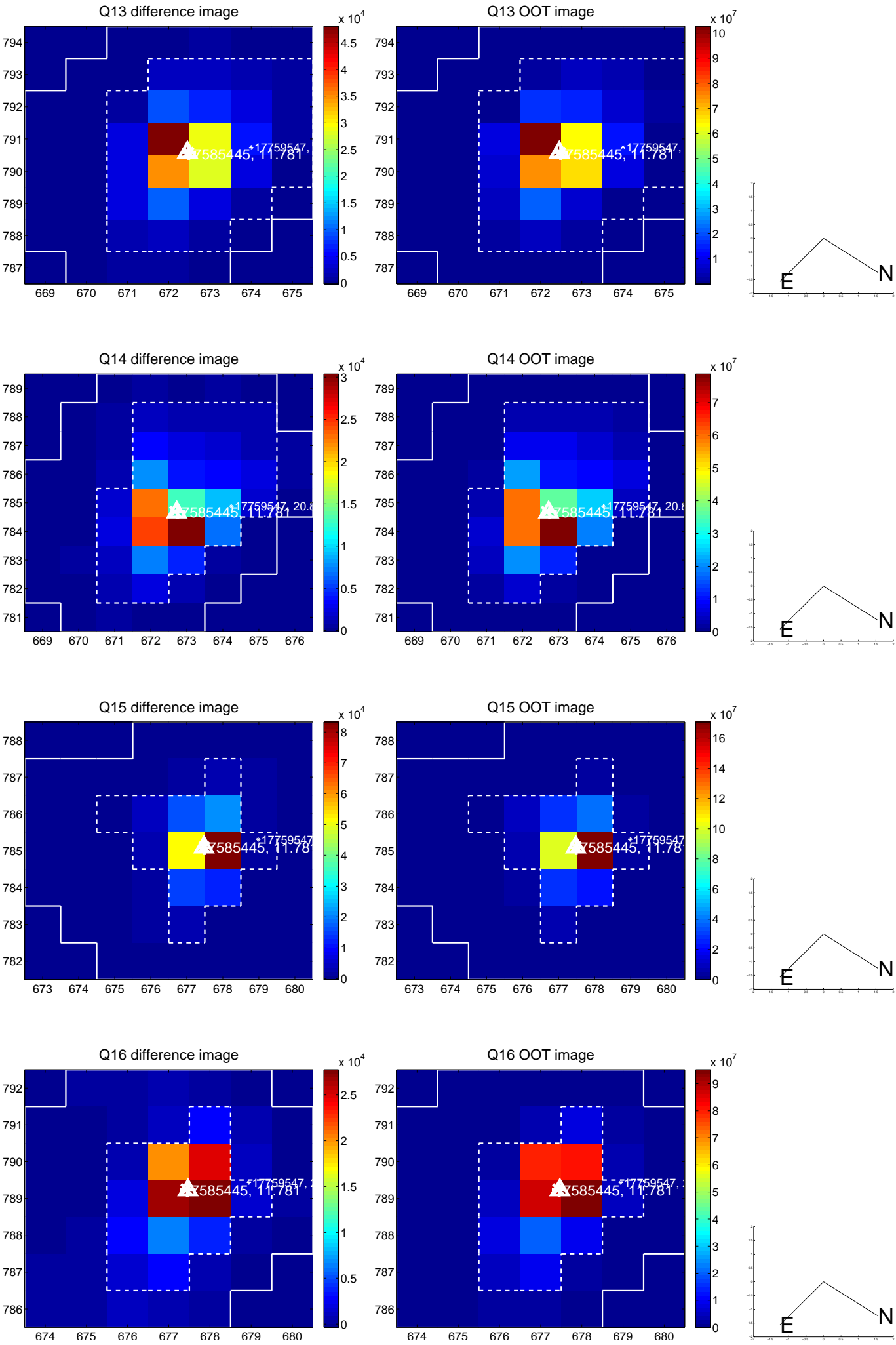
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



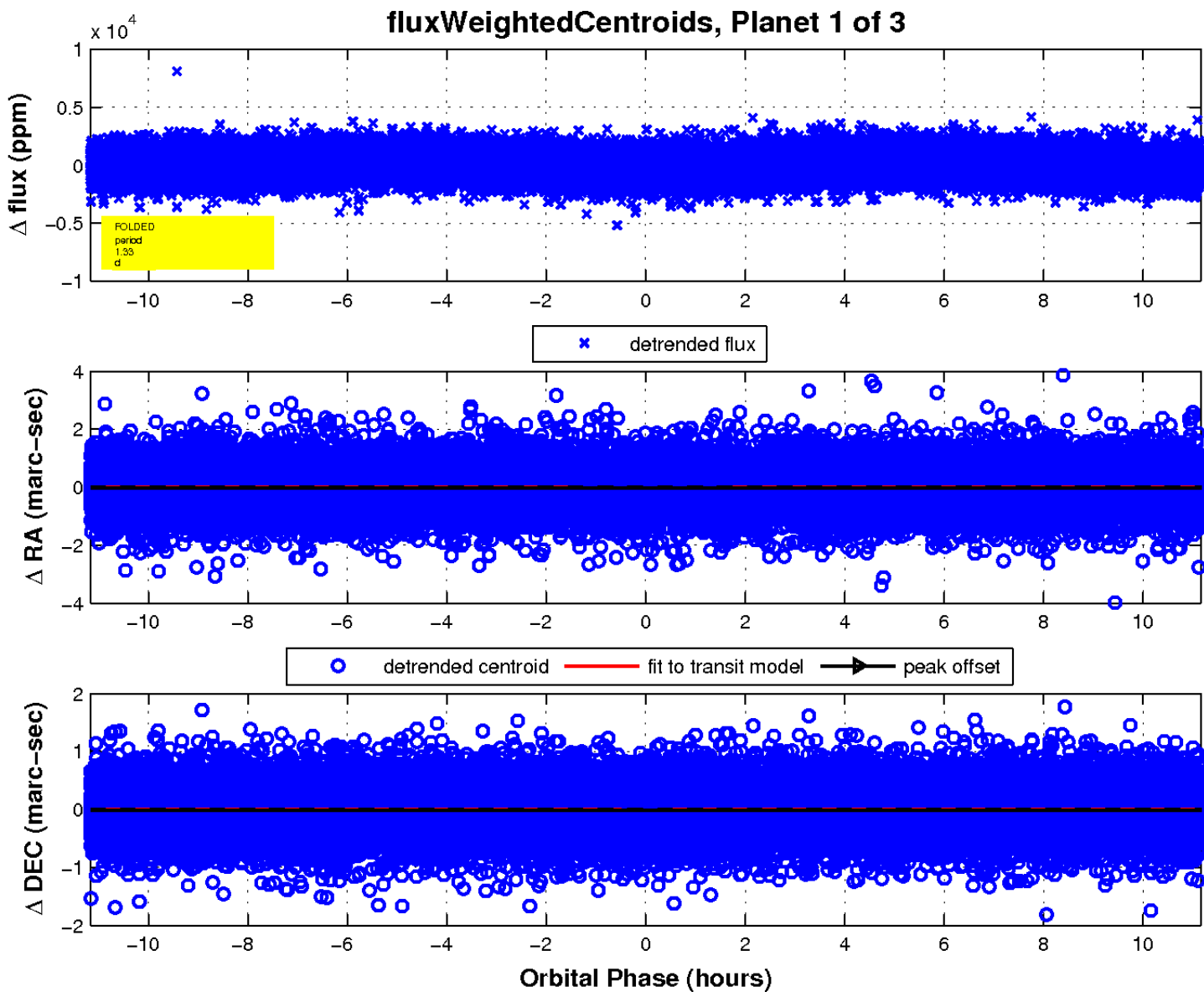
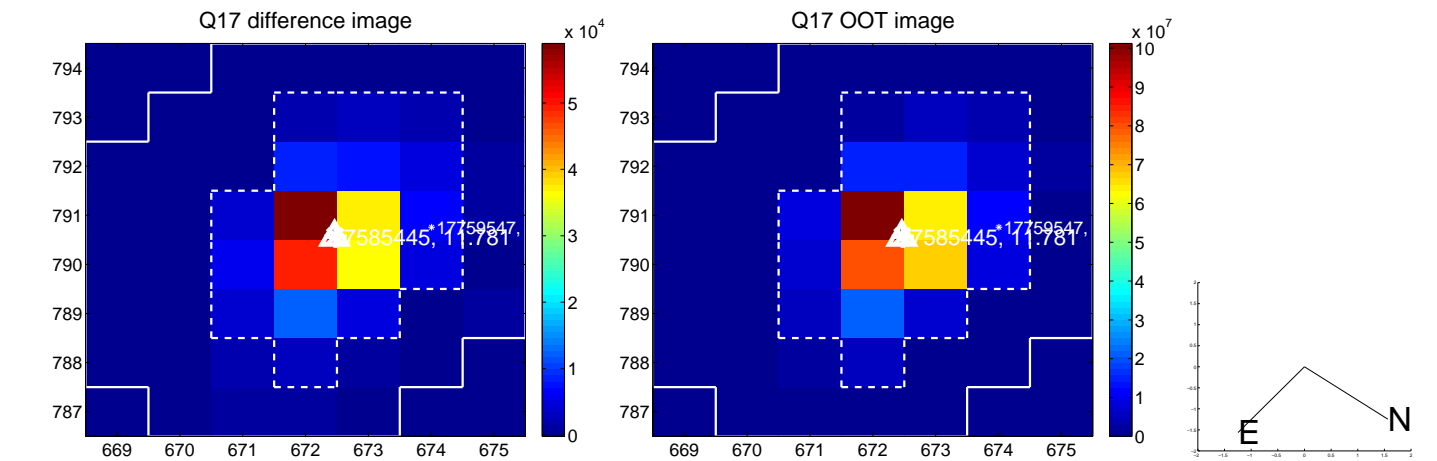
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

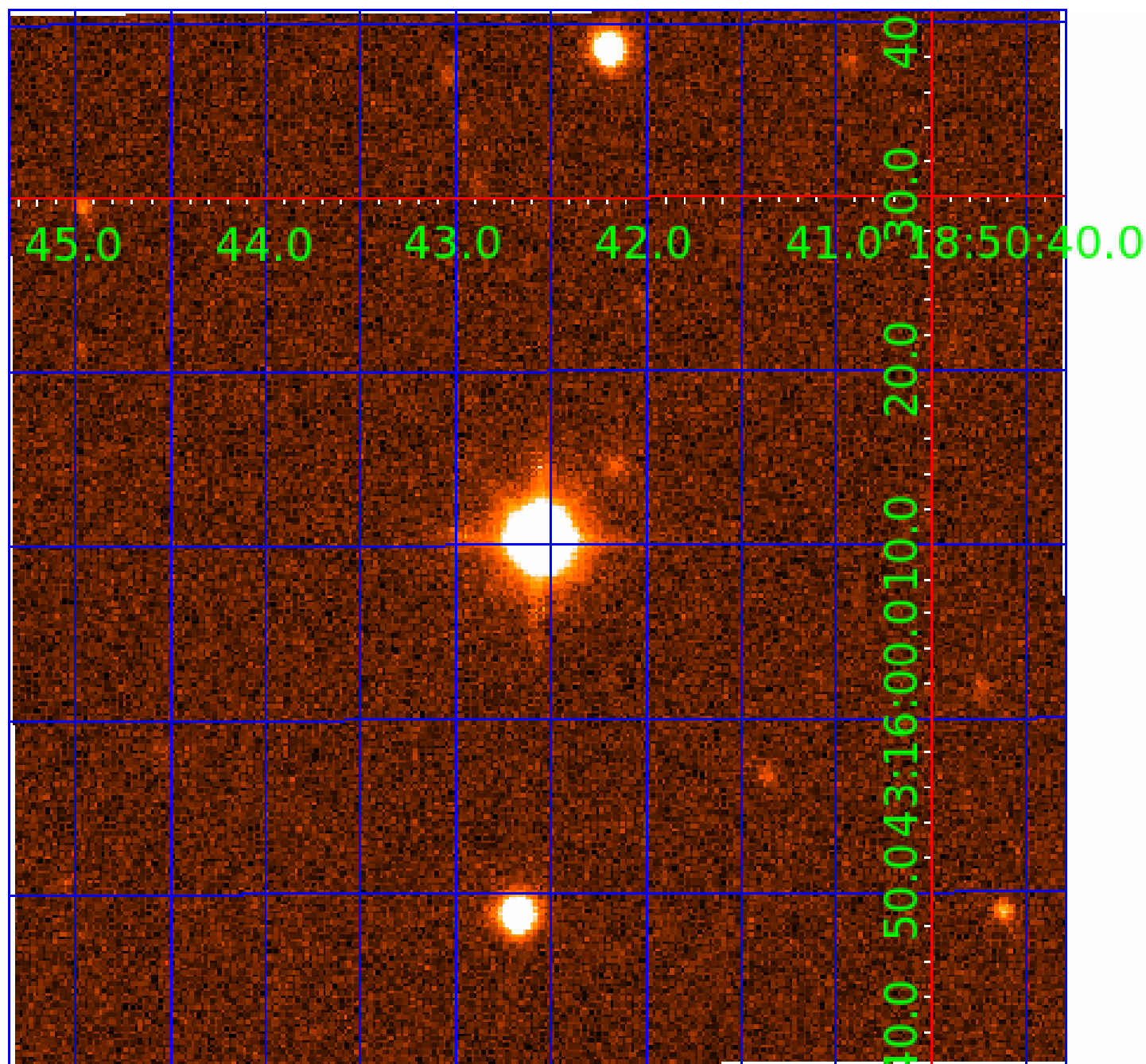


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007585445

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})
007585445-01	OBS	No	1.332387	132.316880	165.5	3.722	13.0	12.9	2.15	7723	3.19	18457.07
007585445-02	OBS	No	1.332332	132.776245	133.6	4.820	12.4	12.1	2.15	7723	2.90	18458.10
007585445-03	OBS	No	1.332344	131.904021	168.7	4.027	13.7	15.7	2.15	7723	3.28	18457.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007585445-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007585445-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD
007585445-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_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.

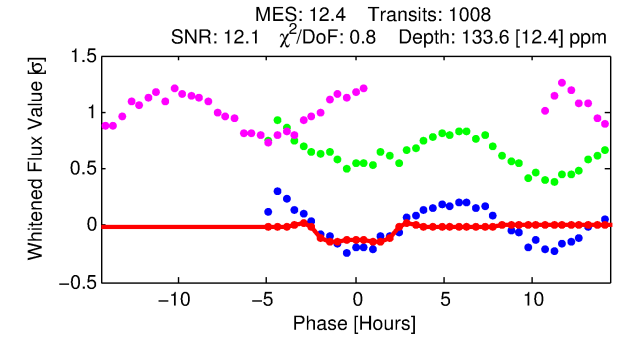
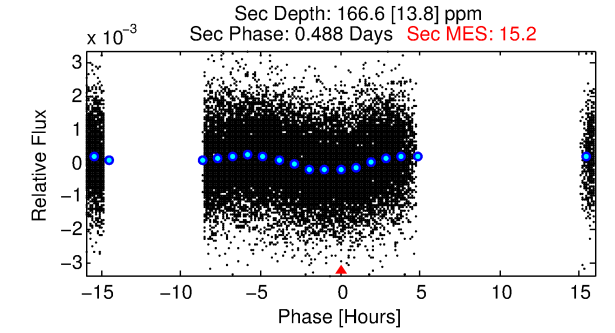
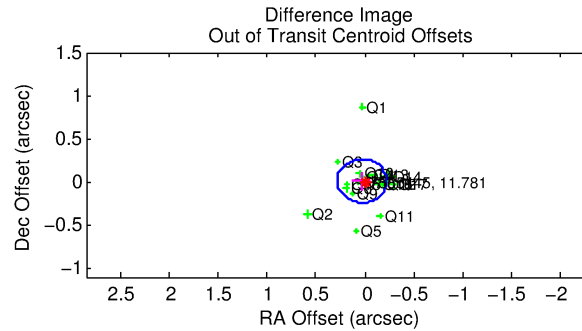
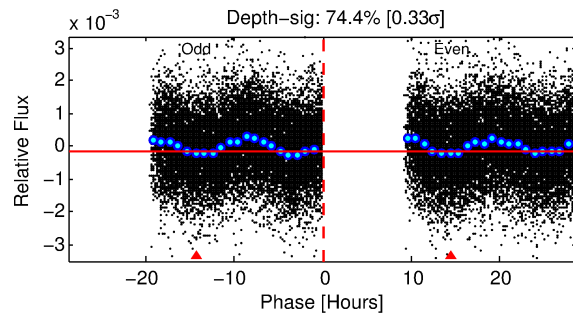
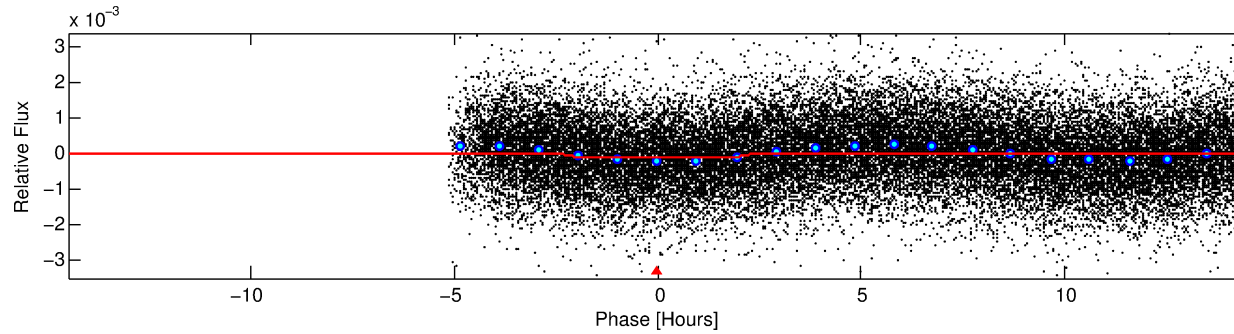
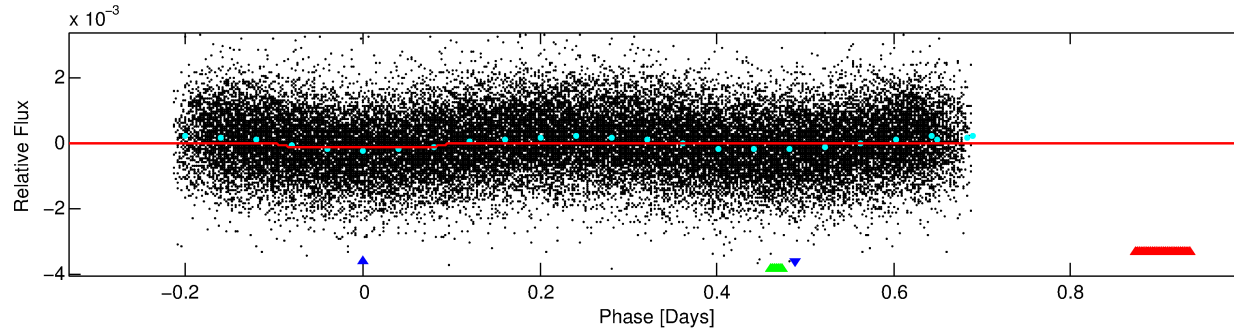
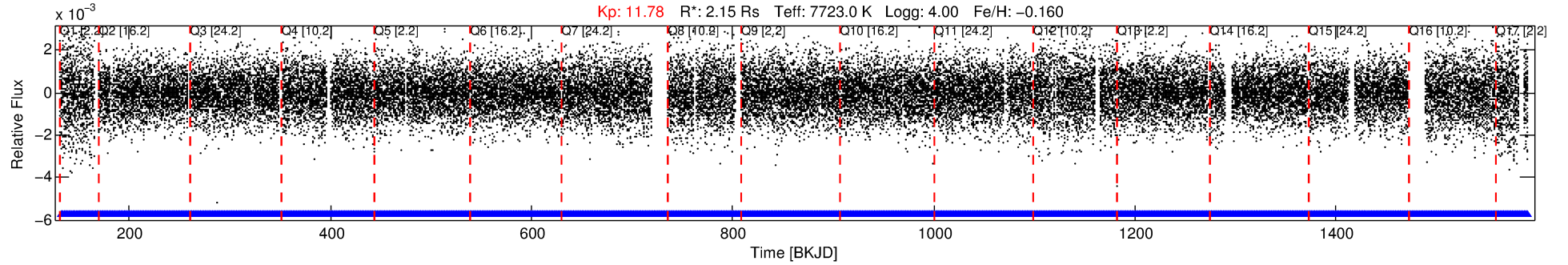
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007585445-02

No Significant Match Found

DV One-Page Summary

KIC: 7585445 Candidate: 2 of 3 Period: 1.332 d



DV Fit Results:

Period = 1.33233 [0.00001] d
Epoch = 132.7762 [0.0041] BKJD
Rp/R* = 0.0124 [0.0032]
a/R* = 1.36 [0.97]
b = 0.90 [0.34]
Seff = 18458.10 [7673.03]
Teq = 2972 [309] K
Rp = 2.90 [1.13] Re
a = 0.0283 [0.0071] AU
Ag = 8.71 [5.71] [1.35 σ]
Teffp = 7895 [1100] K [4.31 σ]

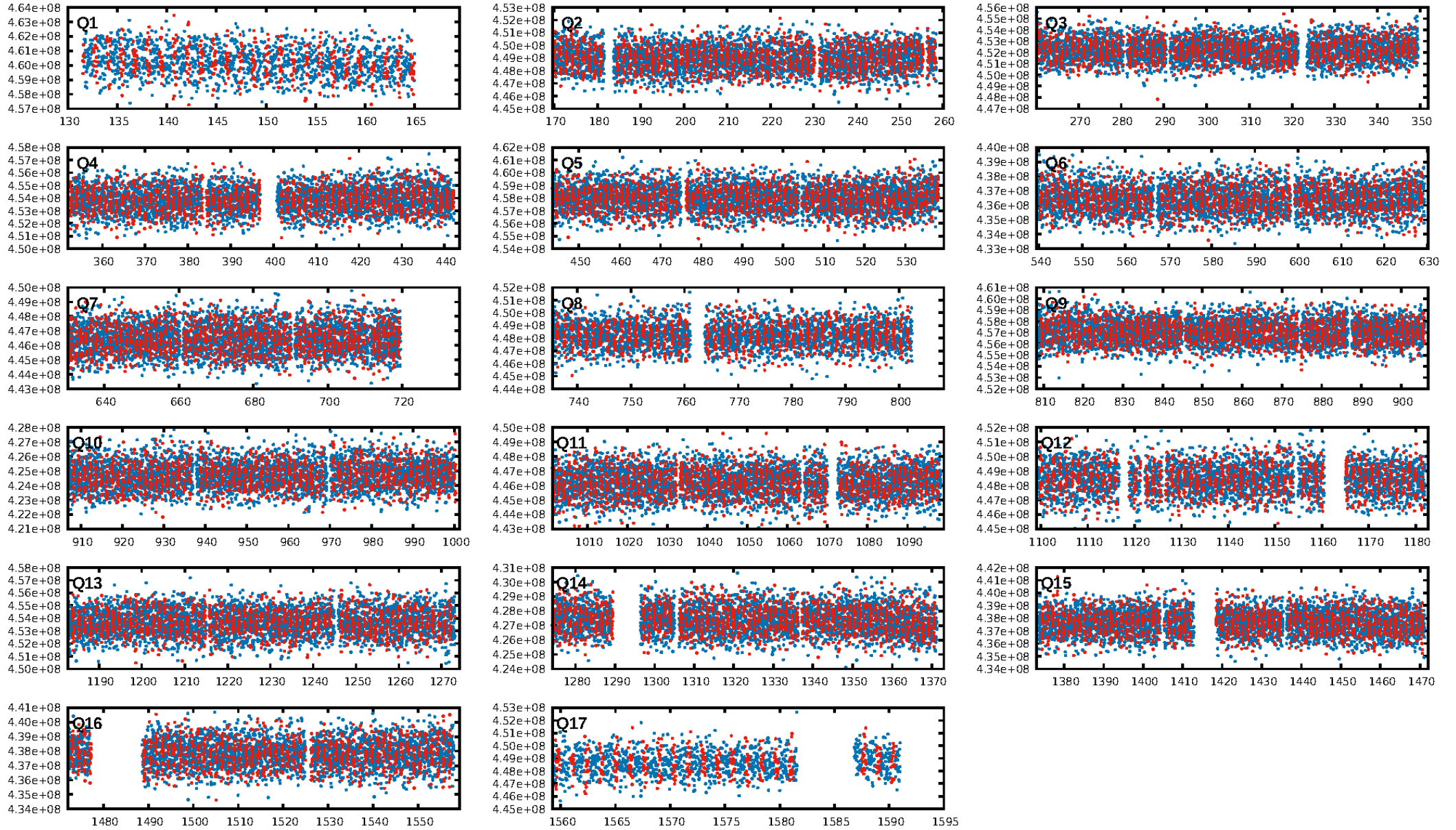
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [962/962]
GhostDiagnostic-chr: 0.9049
Centroid-sig: 2.8%
Centroid-so: 0.229 arcsec [2.76 σ]
OotOffset-rm: 0.035 arcsec [0.41 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.090 arcsec [0.84 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

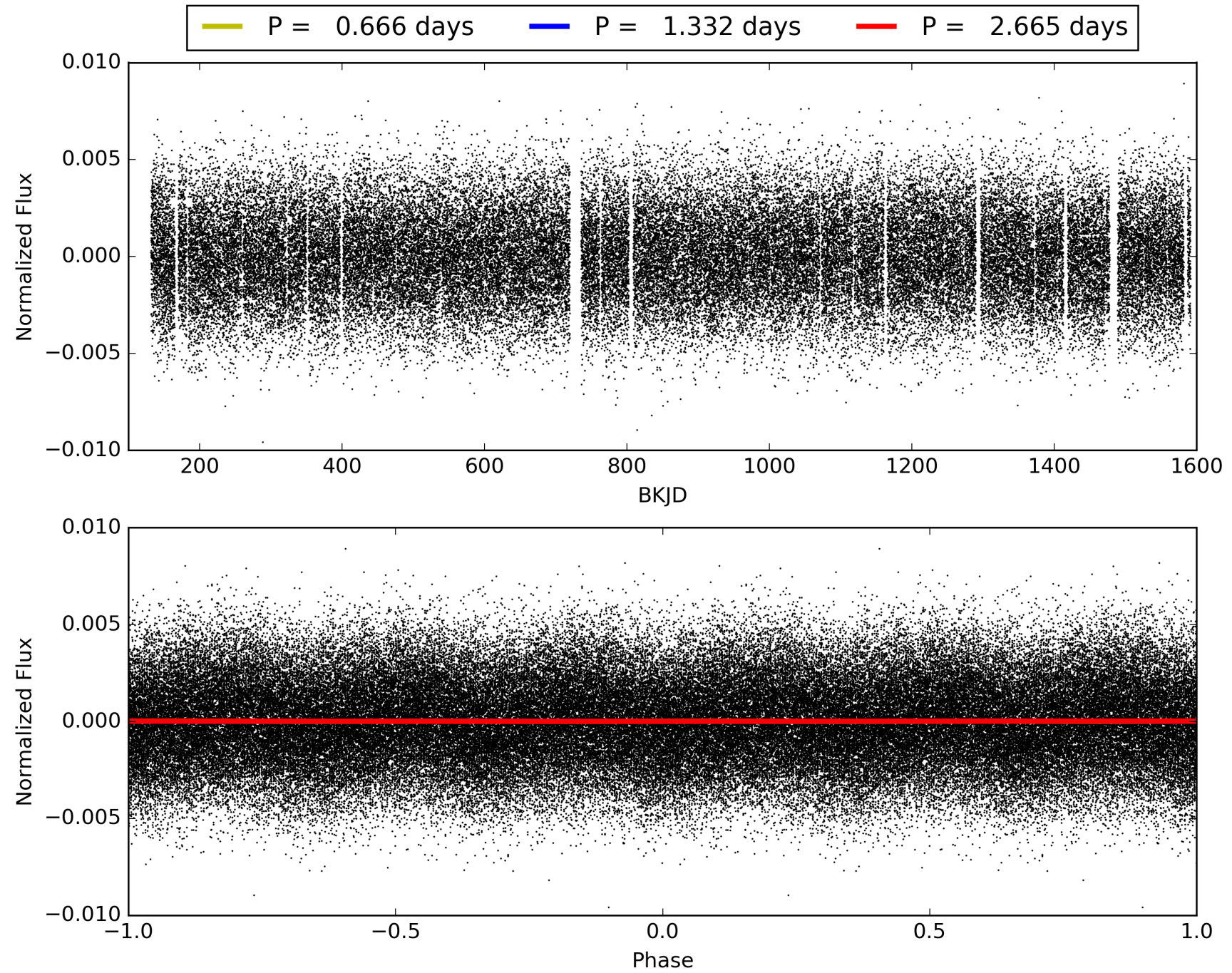
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 04:51:29 Z

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

TCE 007585445-02, PDC Light Curves

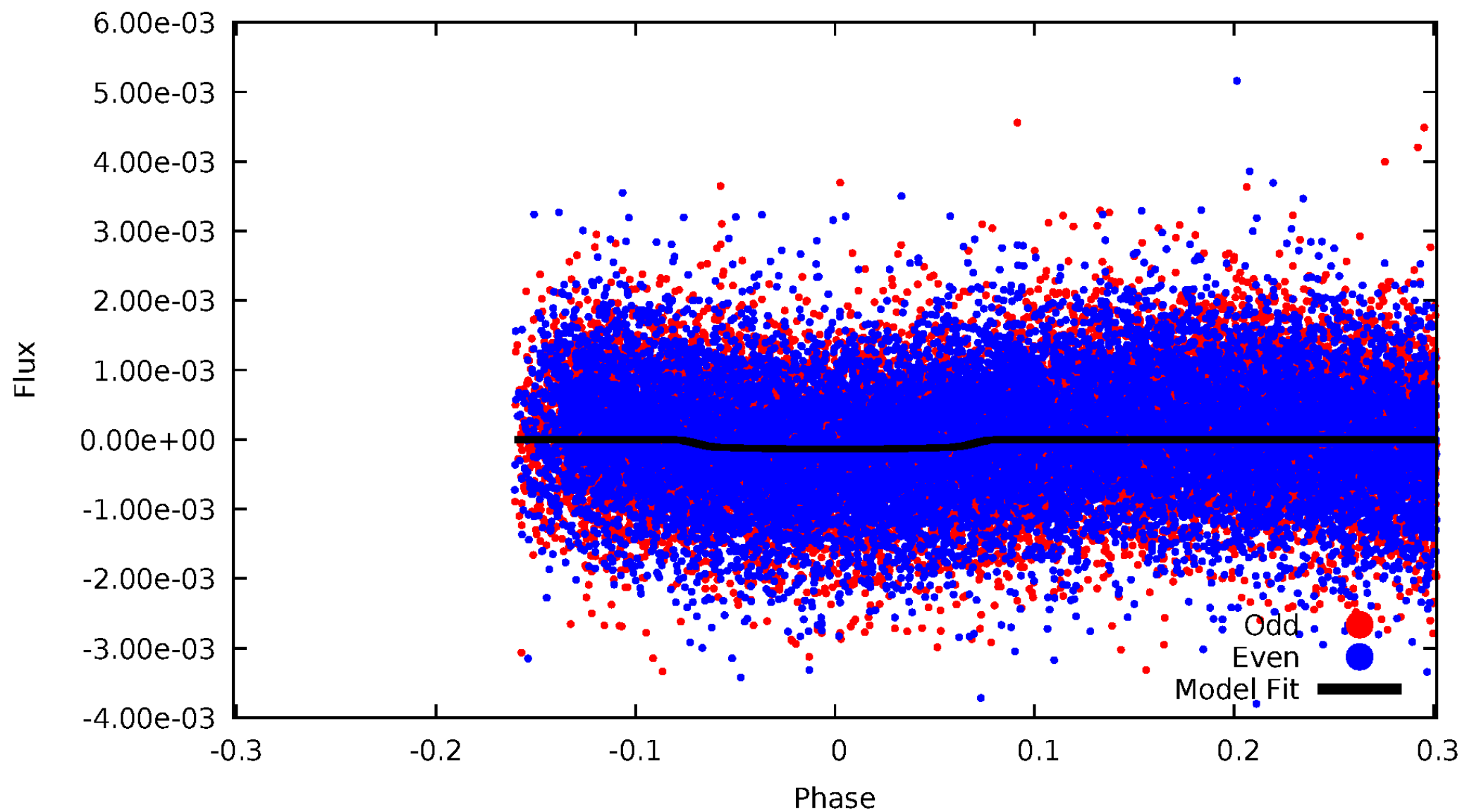


TCE 007585445-02



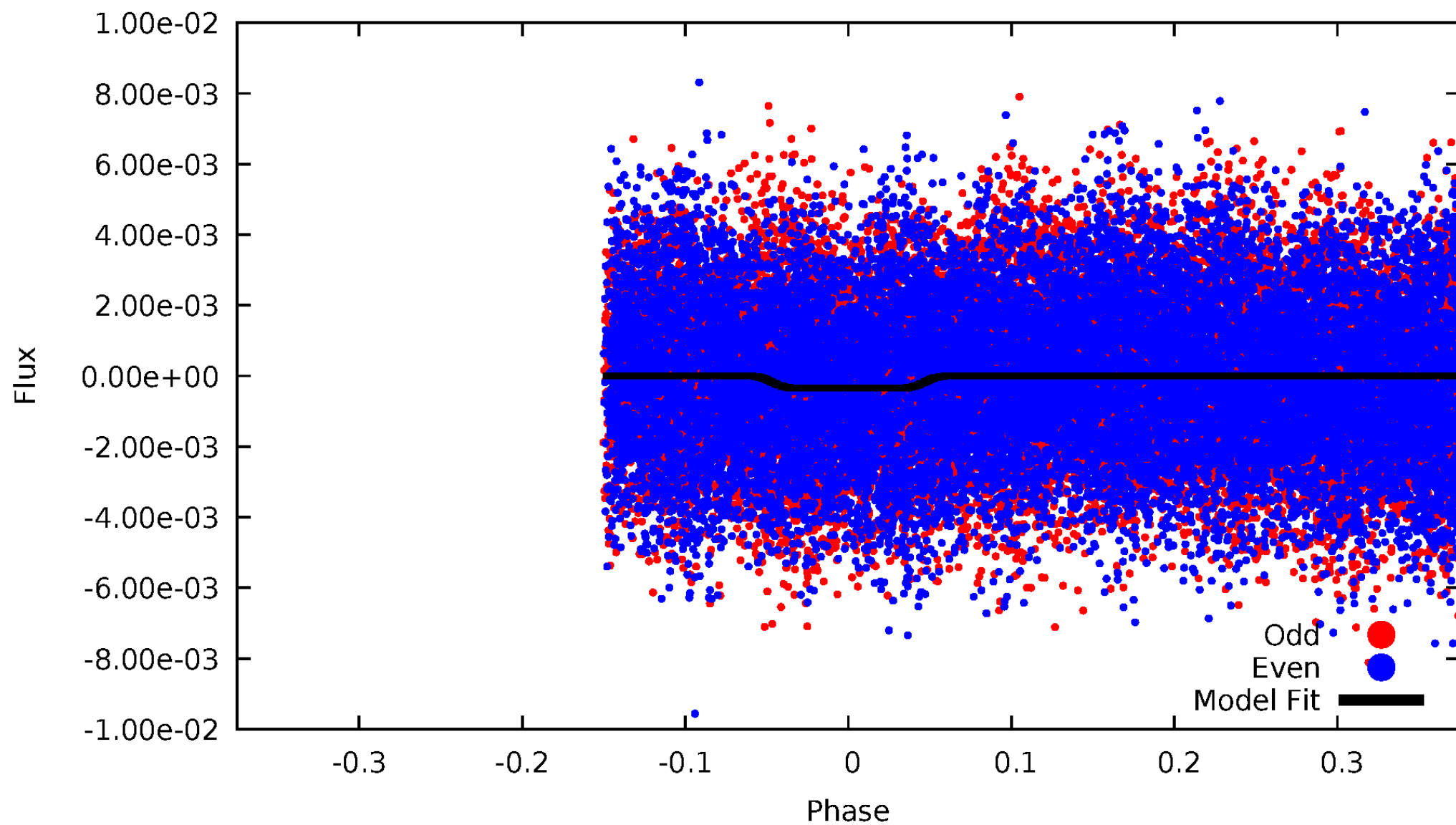
DV Odd/Even

TCE 007585445-02



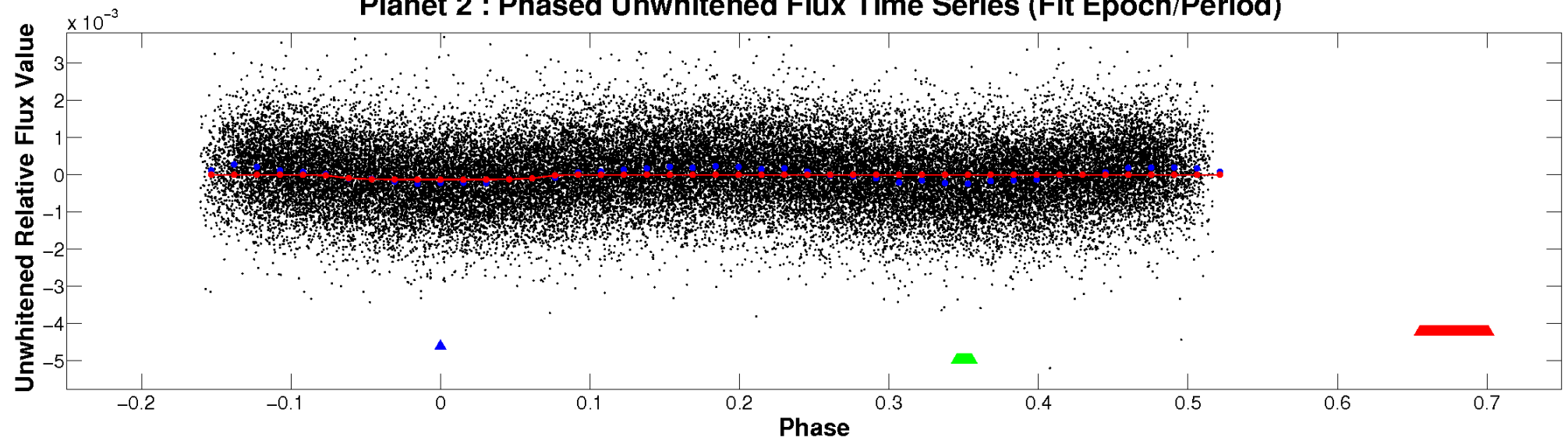
ALT Odd/Even

TCE 007585445-02

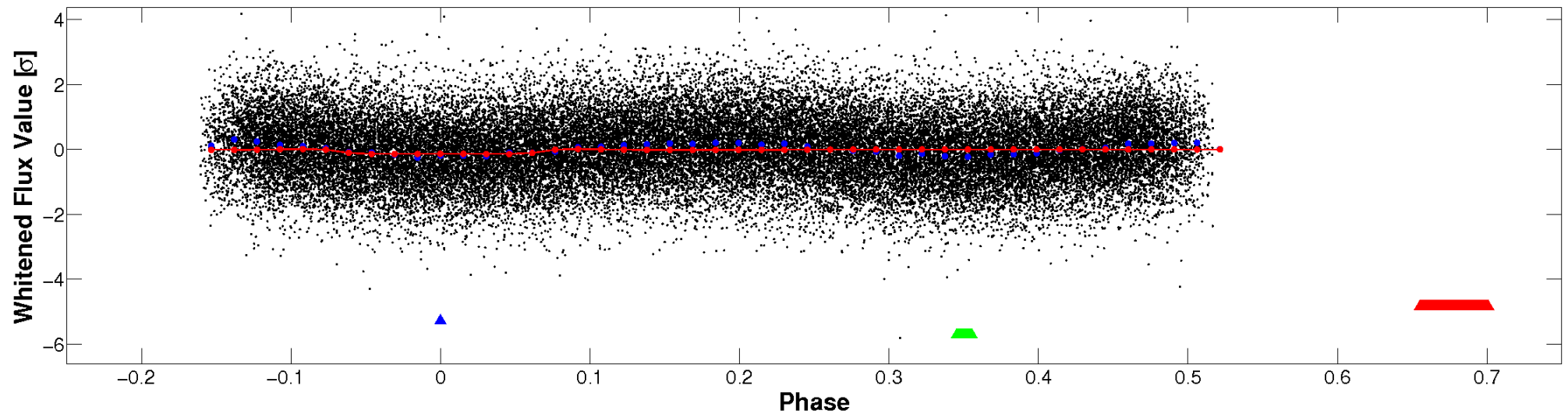


Non-Whitened Vs. Whitened Light Curve

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

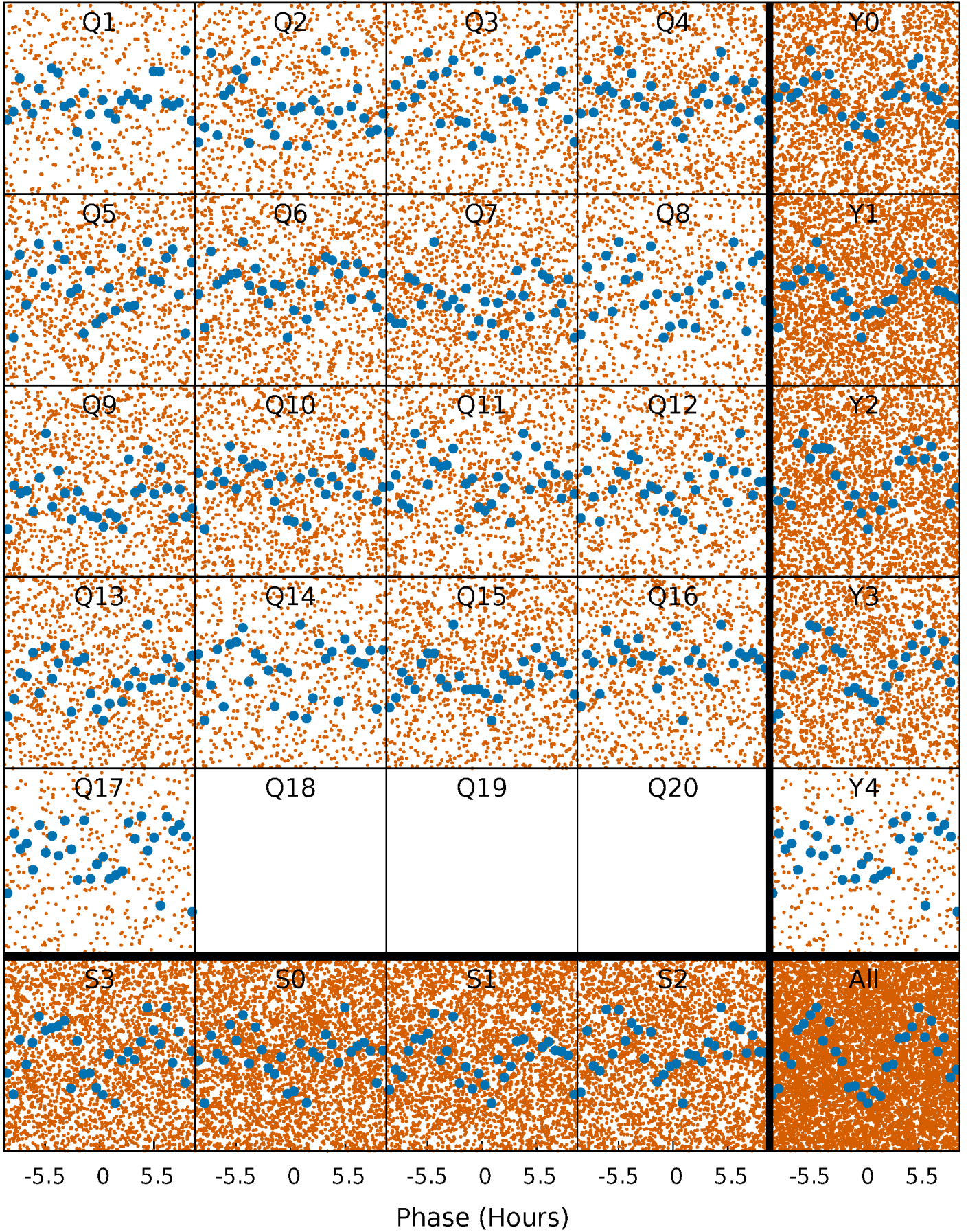


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



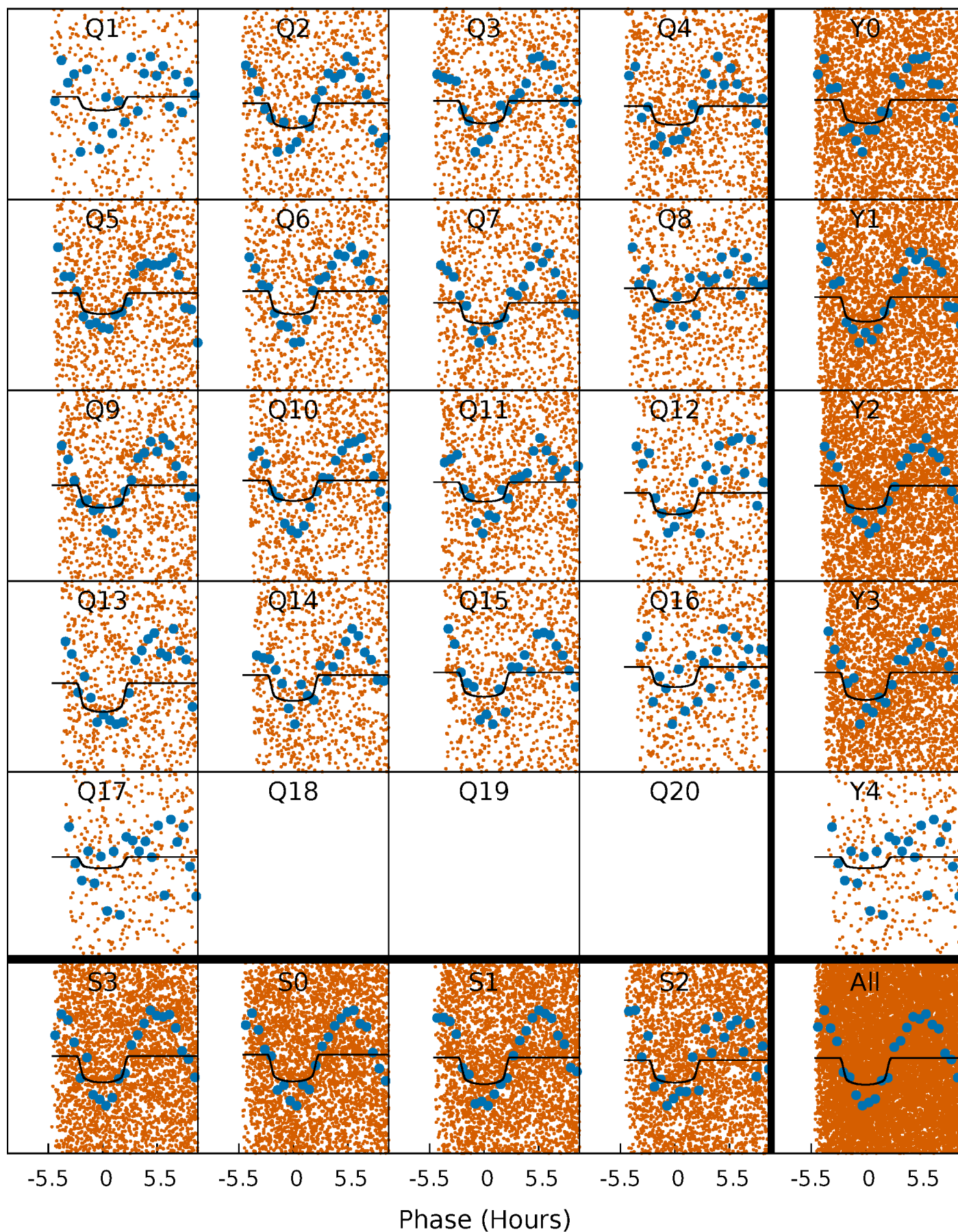
PDC Quarter-Phased Transit Curves

TCE 007585445-02 P= 1.332332 Days $T_0=132.776245$ (BKJD)



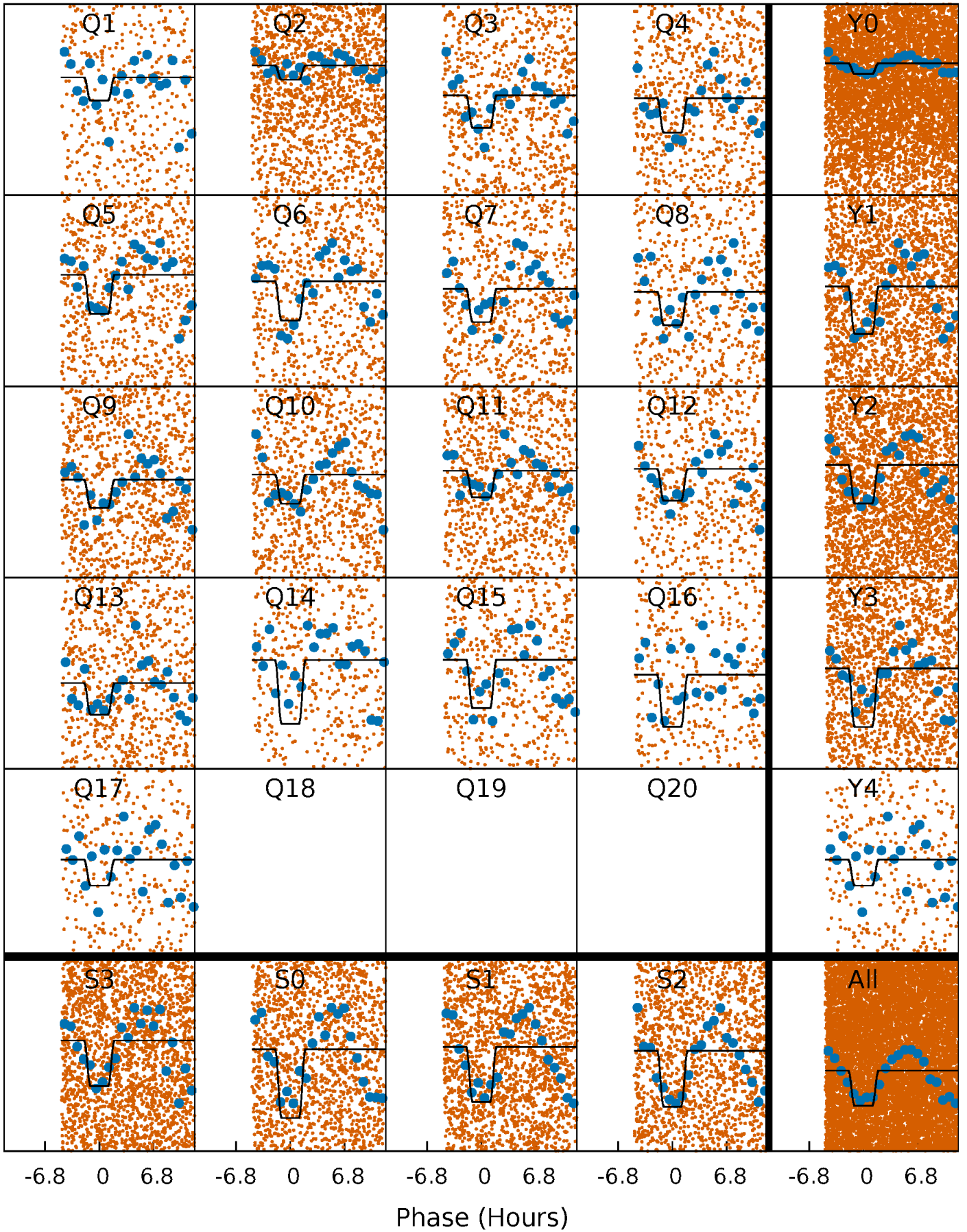
DV Quarter-Phased Transit Curves

TCE 007585445-02 P= 1.332332 Days $T_0=132.776245$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

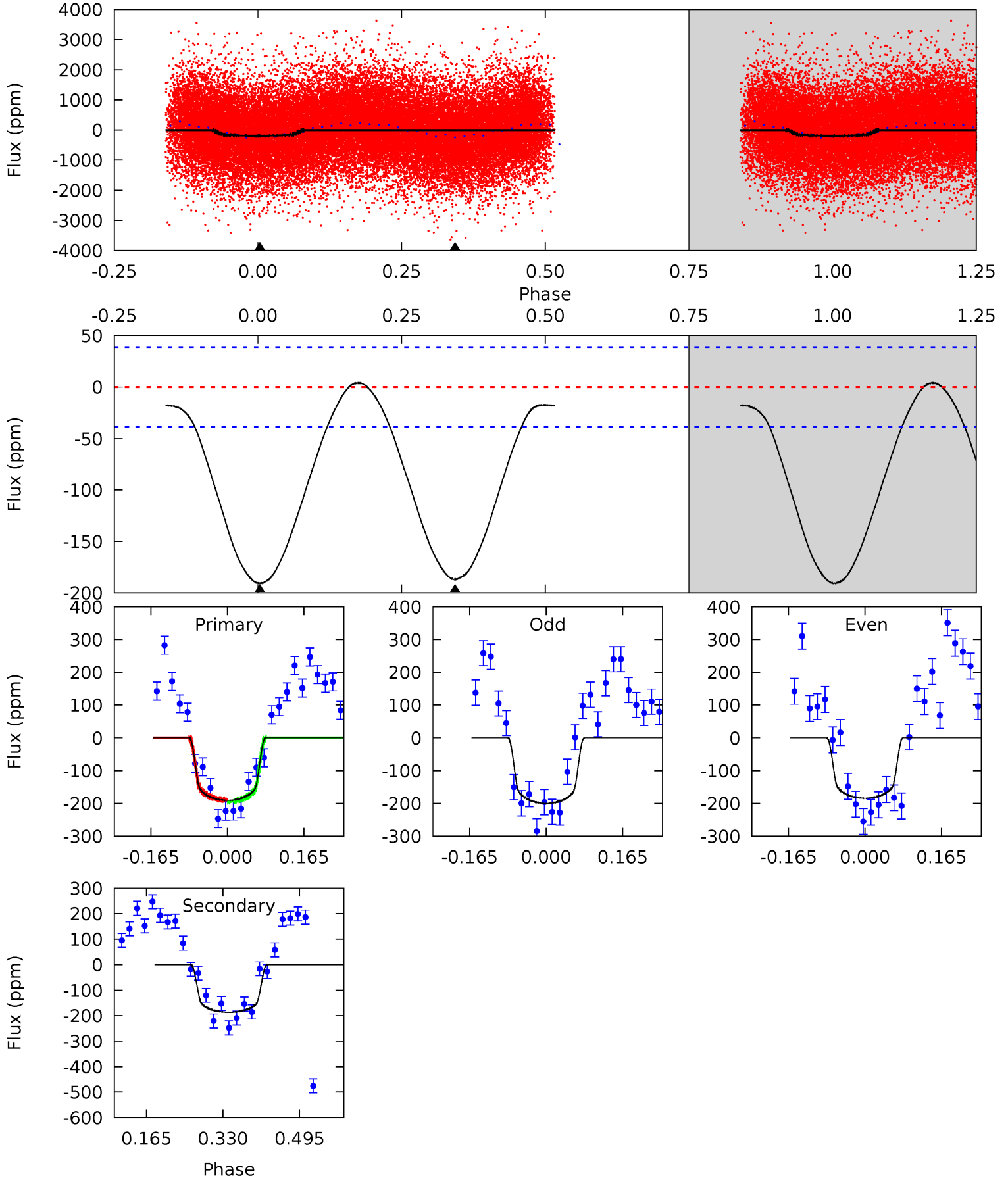
TCE 007585445-02 P= 1.332378 Days $T_0=132.760697$ (BKJD)



DV Model-Shift Uniqueness Test

007585445-02, P = 1.332332 Days, E = 131.443913 Days

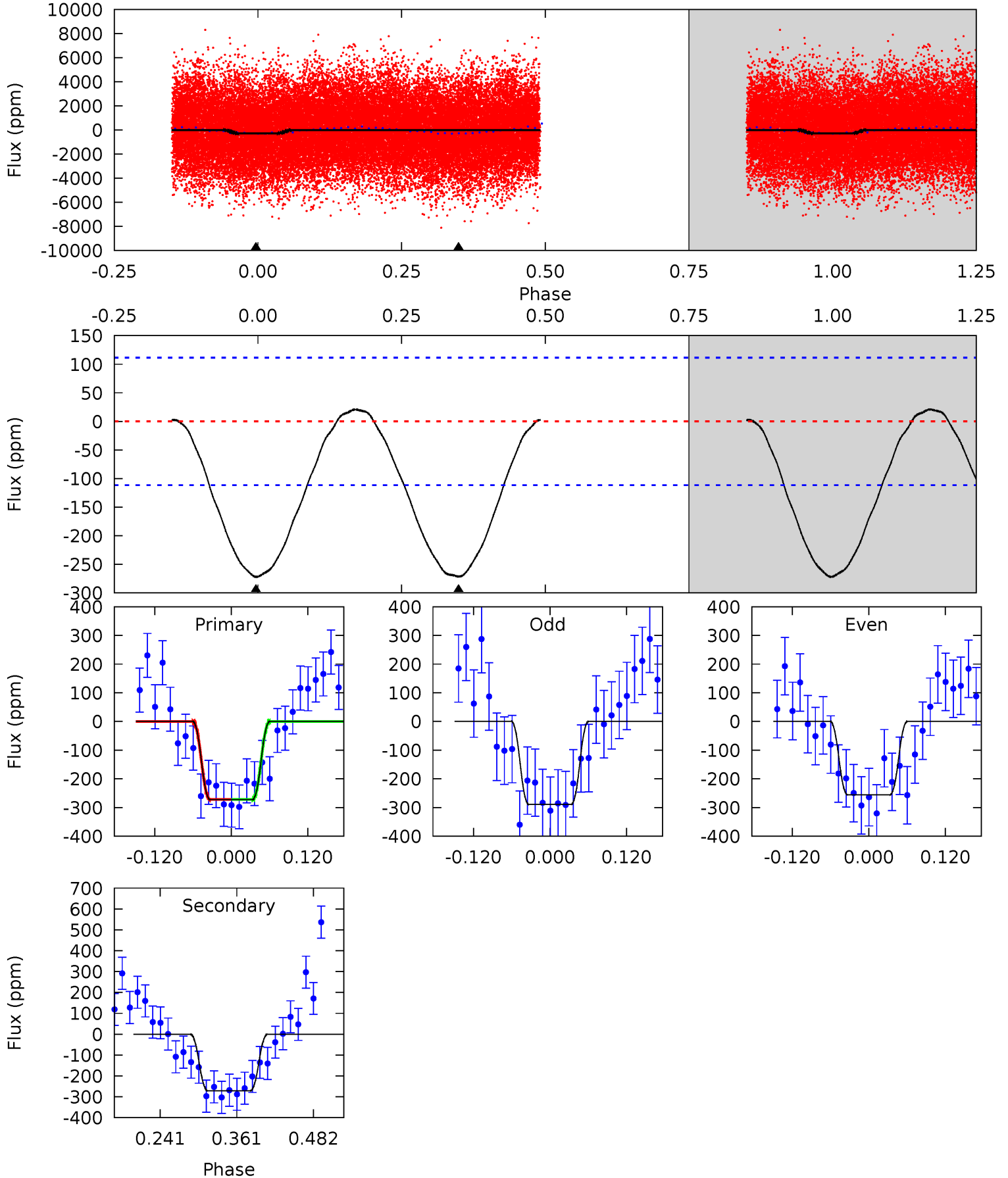
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.9	21.5	0	0	4.46	1.39	0.95	21.9	21.9	21.5	21.5	0.90	1.03	0.02	0.26



Alt Model-Shift Uniqueness Test

007585445-02, P = 1.332378 Days, E = 131.428319 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.0	11.0	0	0	4.53	1.55	0.70	11.0	11.0	11.0	11.0	0.69	1.10	0.07	0.01



Stellar Parameters For KIC 007585445

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7723^{+211}_{-316}	$4.003^{+0.216}_{-0.144}$	$-0.160^{+0.200}_{-0.350}$	$2.155^{+0.502}_{-0.614}$	$1.703^{+0.198}_{-0.322}$	$0.239^{+0.301}_{-0.100}$
	+3%/-4%	+5%/-4%	+125%/-219%	+23%/-28%	+12%/-19%	+126%/-42%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007585445-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-187 ± 9	$2.79^{+0.88}_{-0.83}$	4130^{+287}_{-348}	8133^{+1989}_{-1145}	10^{+10}_{-4}
Alt.	-271 ± 25	$4.23^{+1.02}_{-0.91}$	4115^{+281}_{-341}	7069^{+964}_{-680}	$6.554^{+4.136}_{-2.288}$

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 $A_{obs} \gg 1.0$

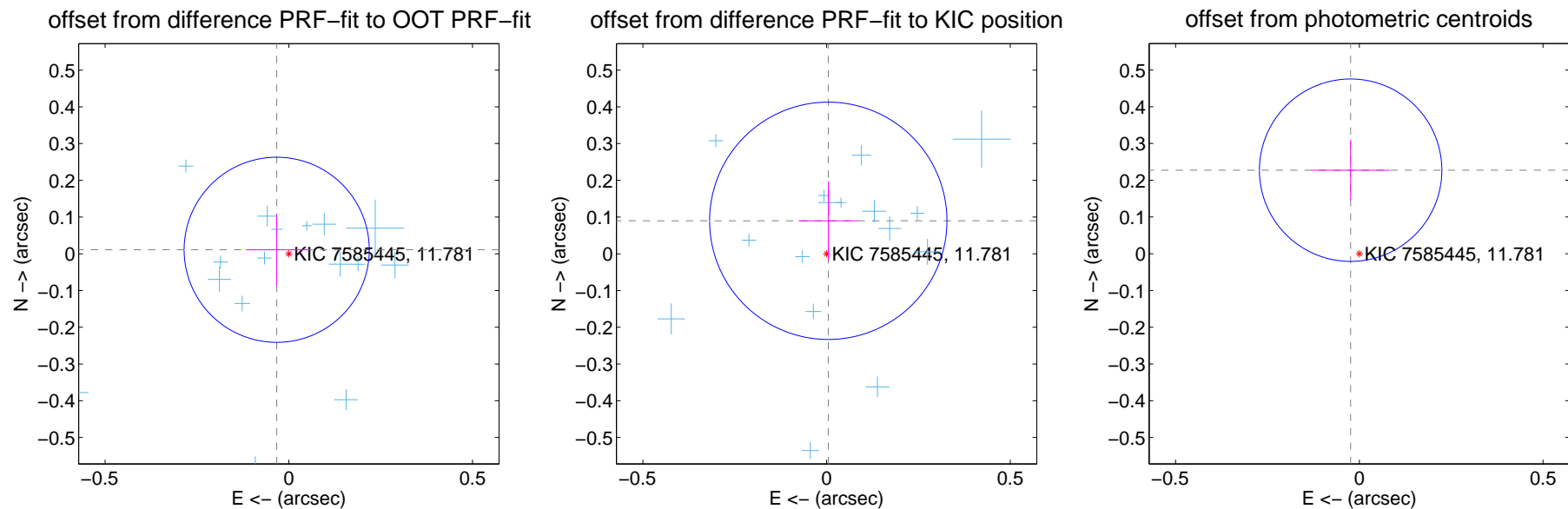
DV Centroid Data

Supplemental centroid analysis for 007585445-02. **Kepler magnitude: 11.78.** Transit SNR 12.06

There are 17 quarters with good PRF difference image offsets

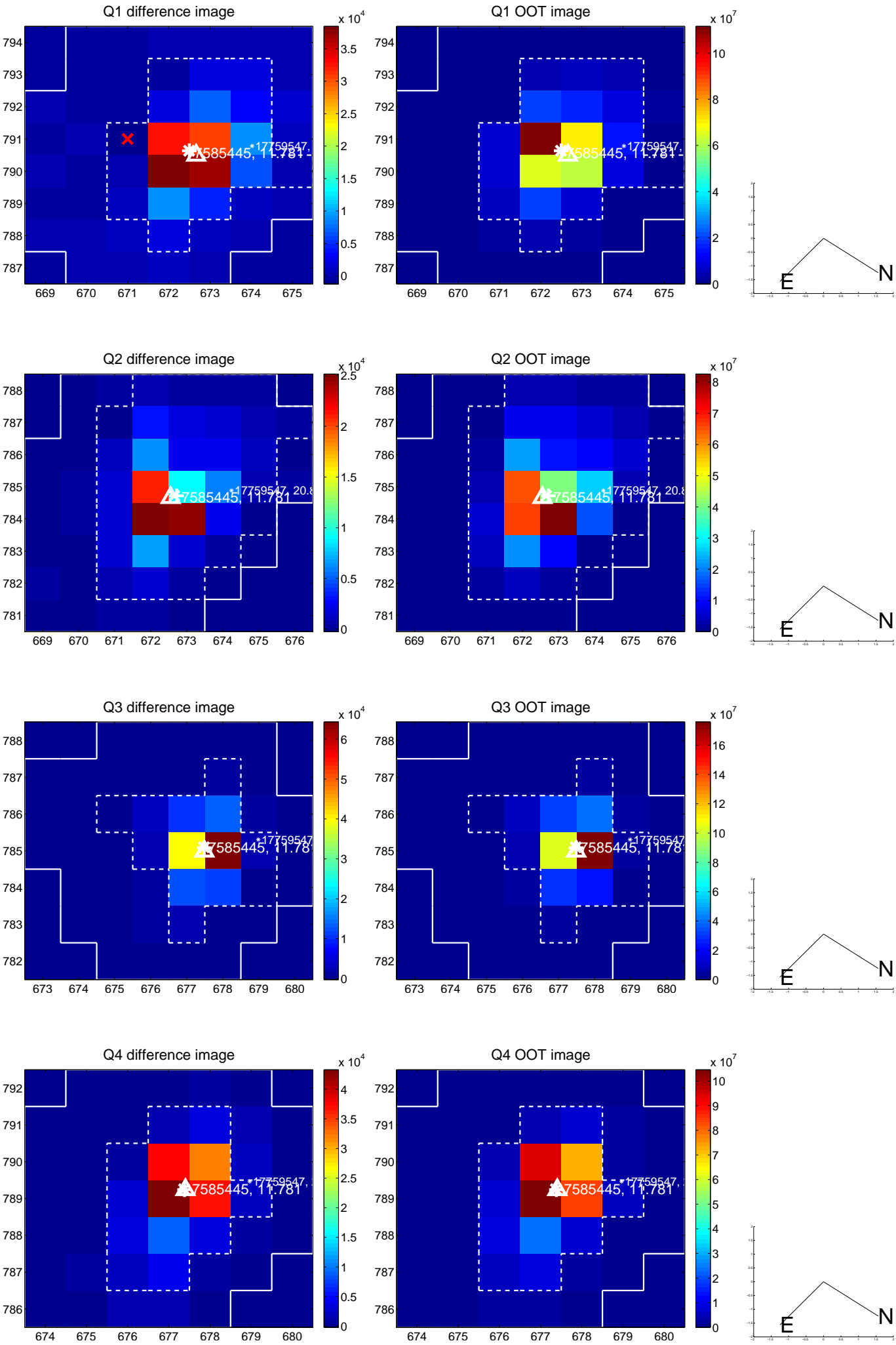
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.035 ± 0.084	0.41	0.033 ± 0.084	0.011 ± 0.097
PRF-fit source offset from KIC position	0.090 ± 0.108	0.84	-0.005 ± 0.081	0.090 ± 0.108
photometric centroid source offset	0.23 ± 0.08	2.76	0.02 ± 0.11	0.23 ± 0.08

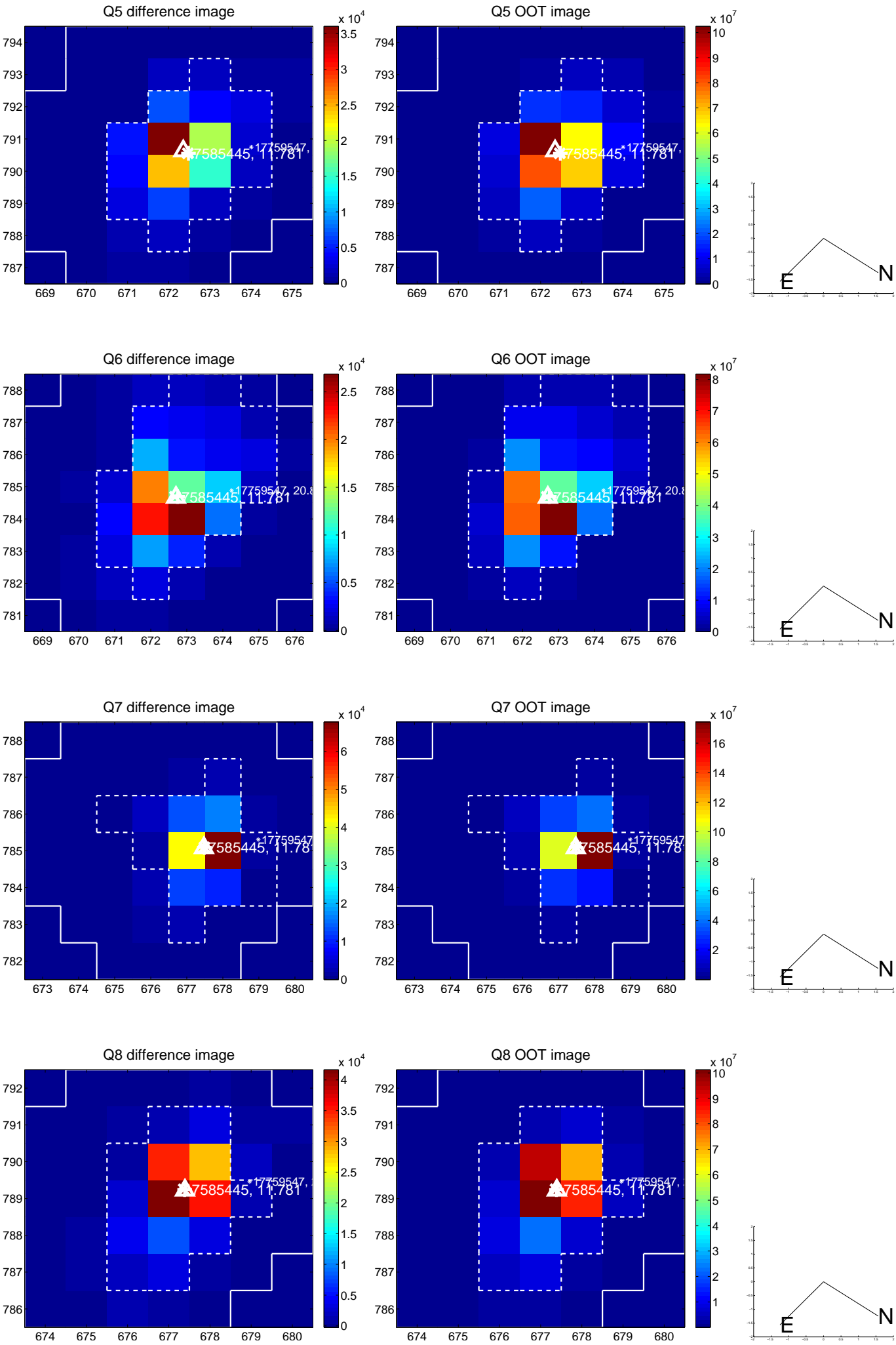


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

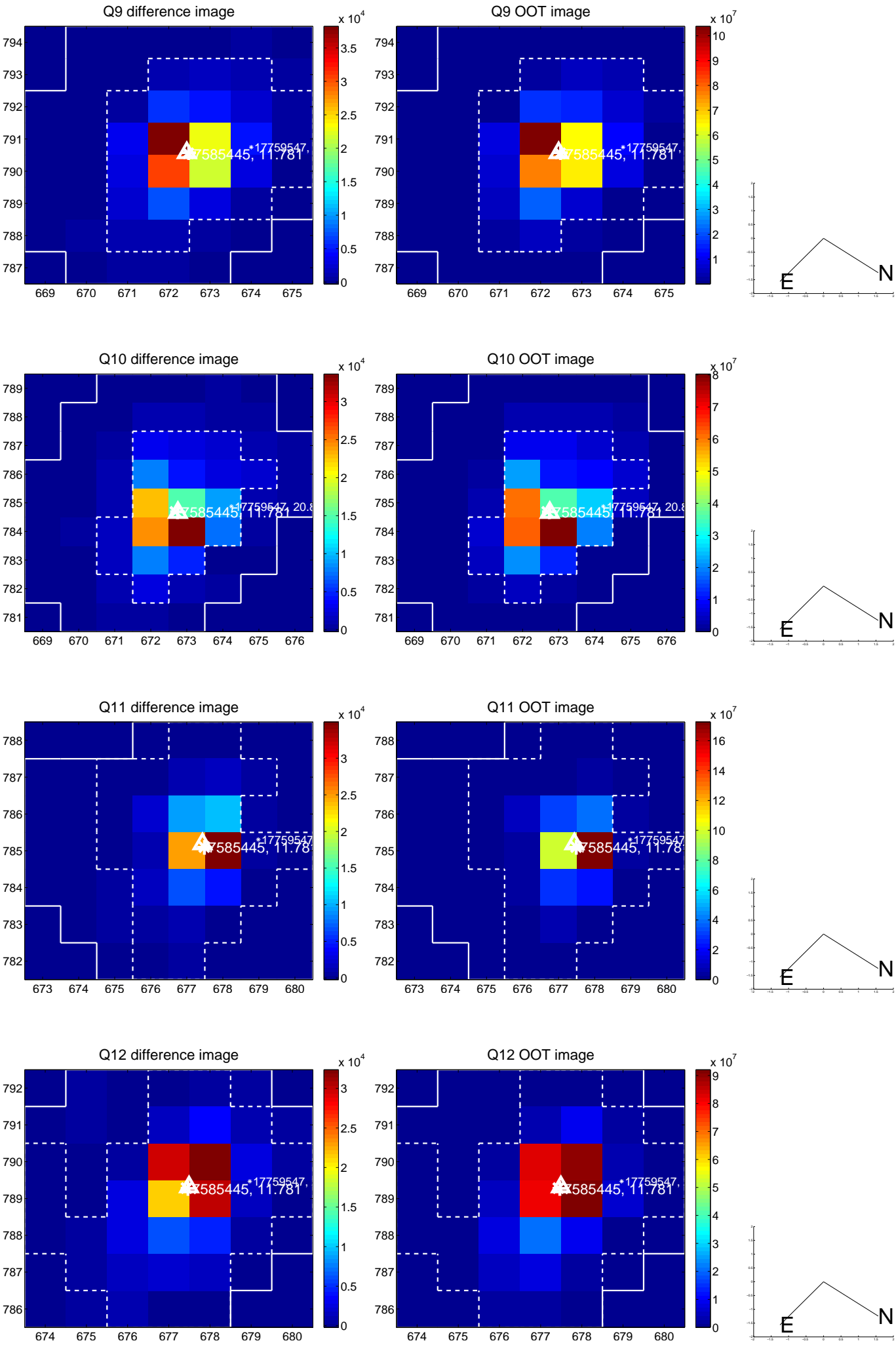
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



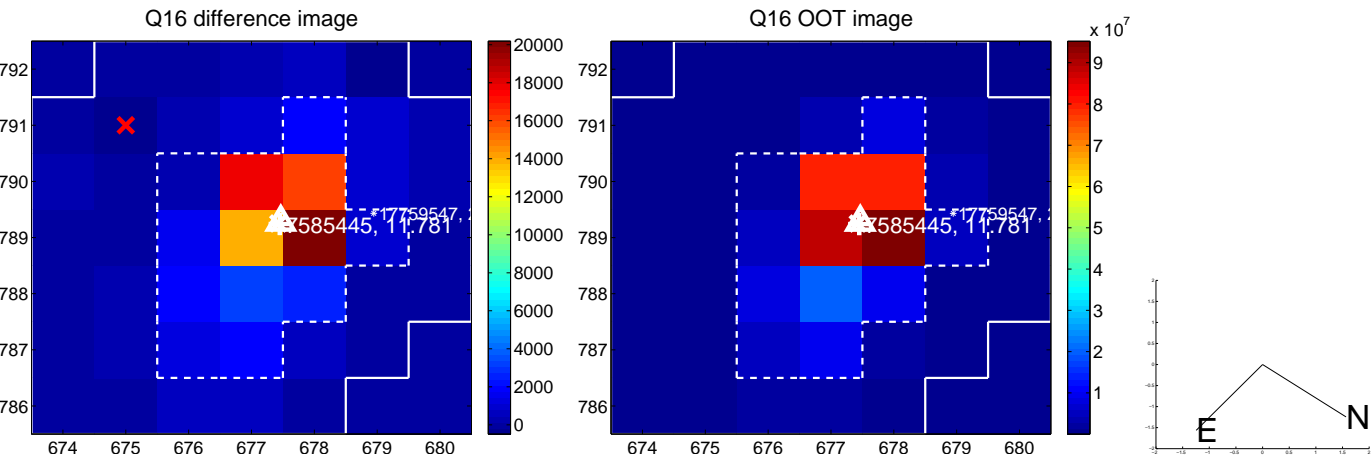
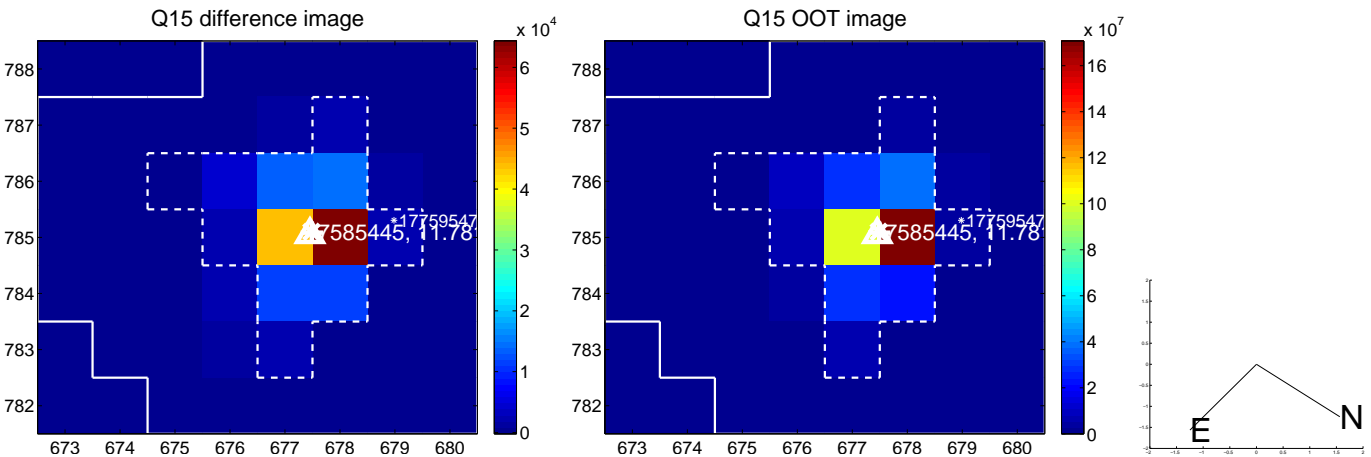
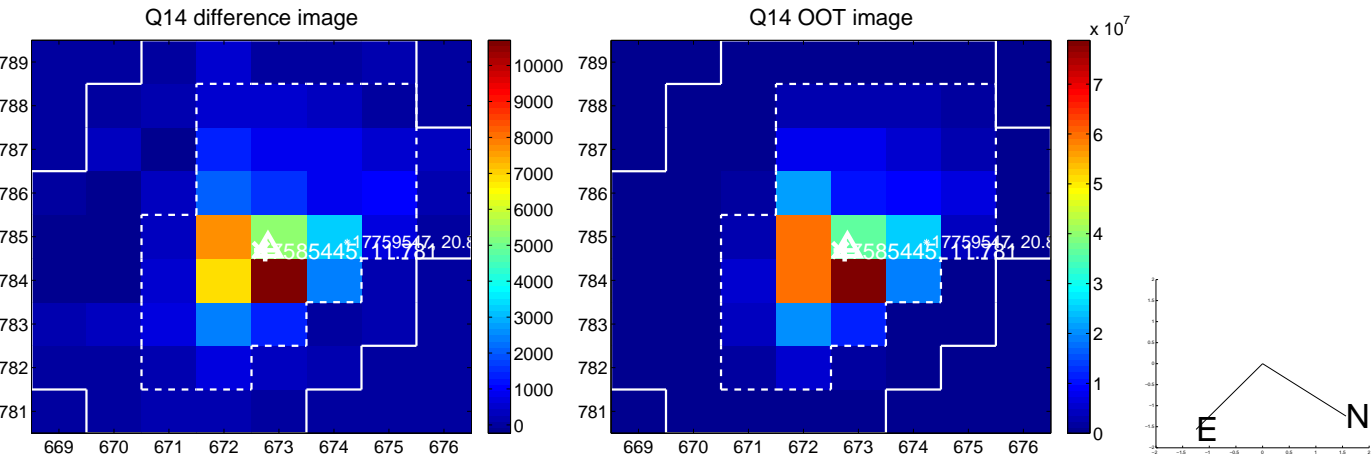
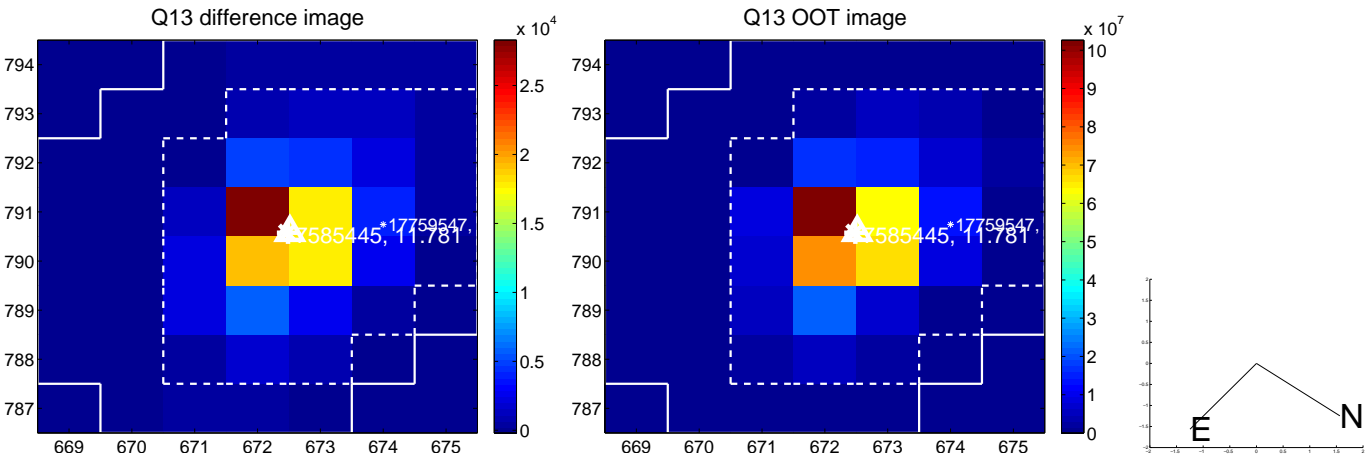
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



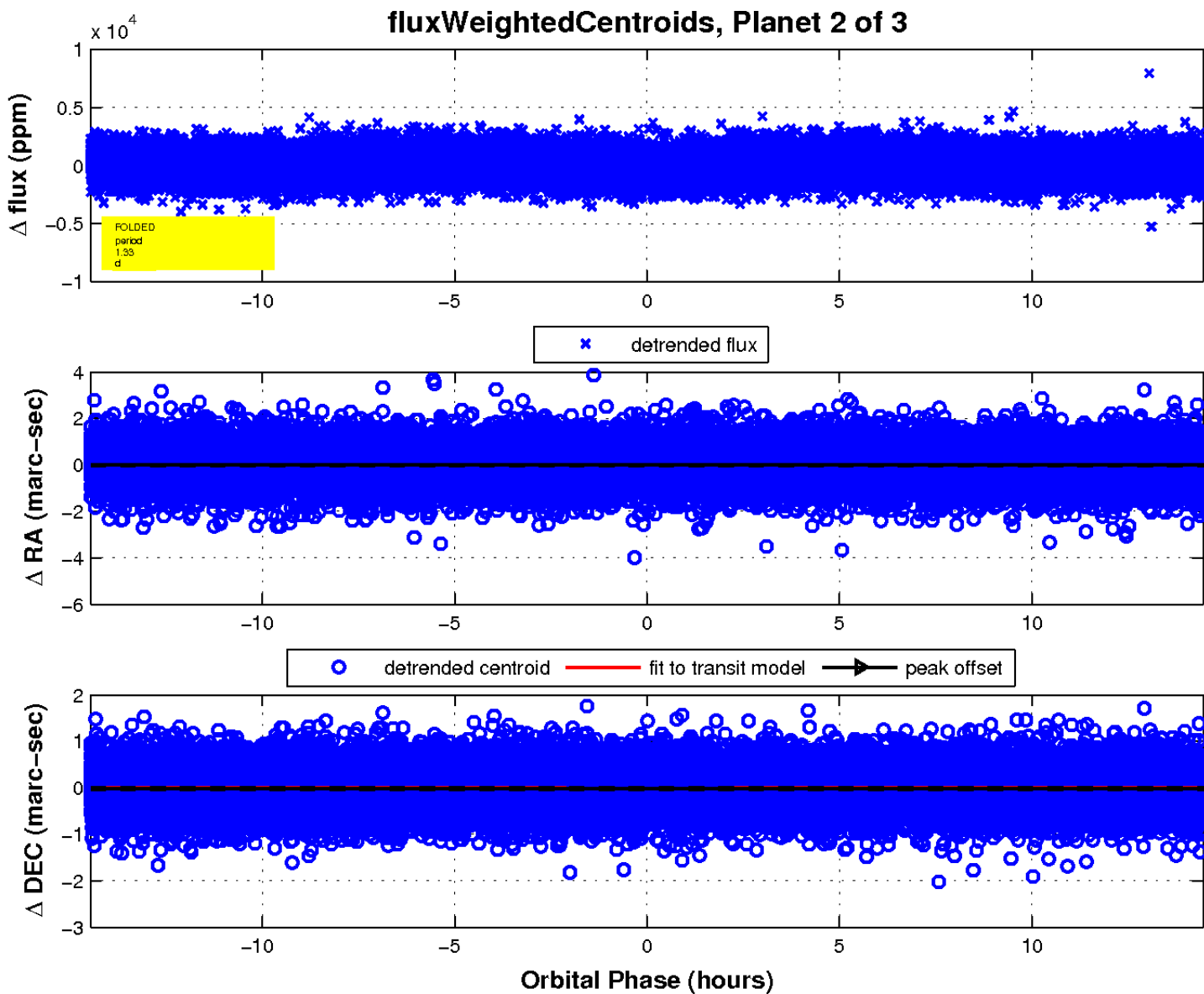
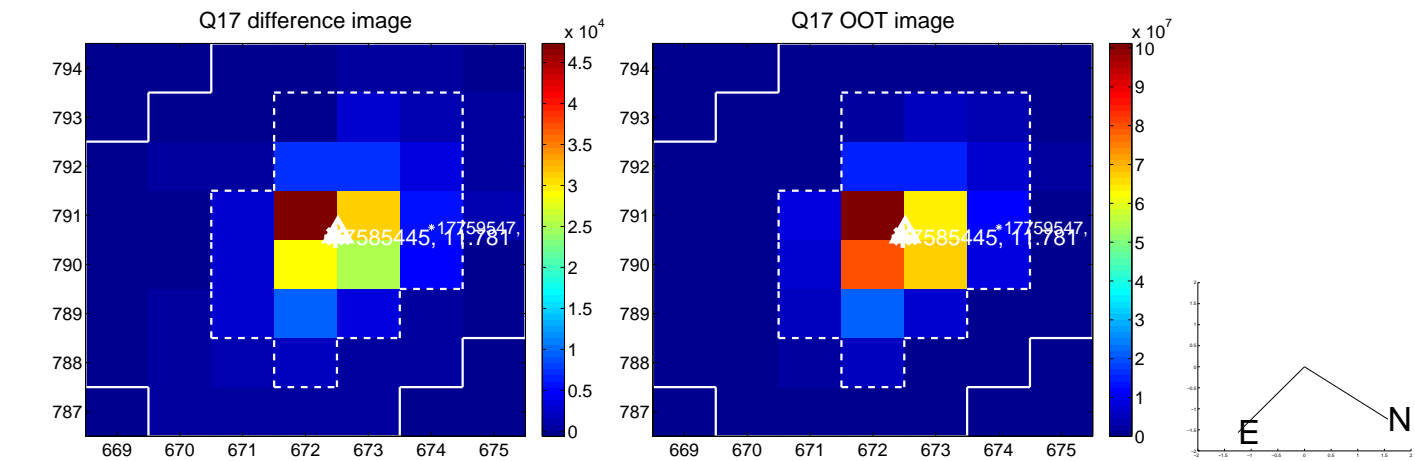
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

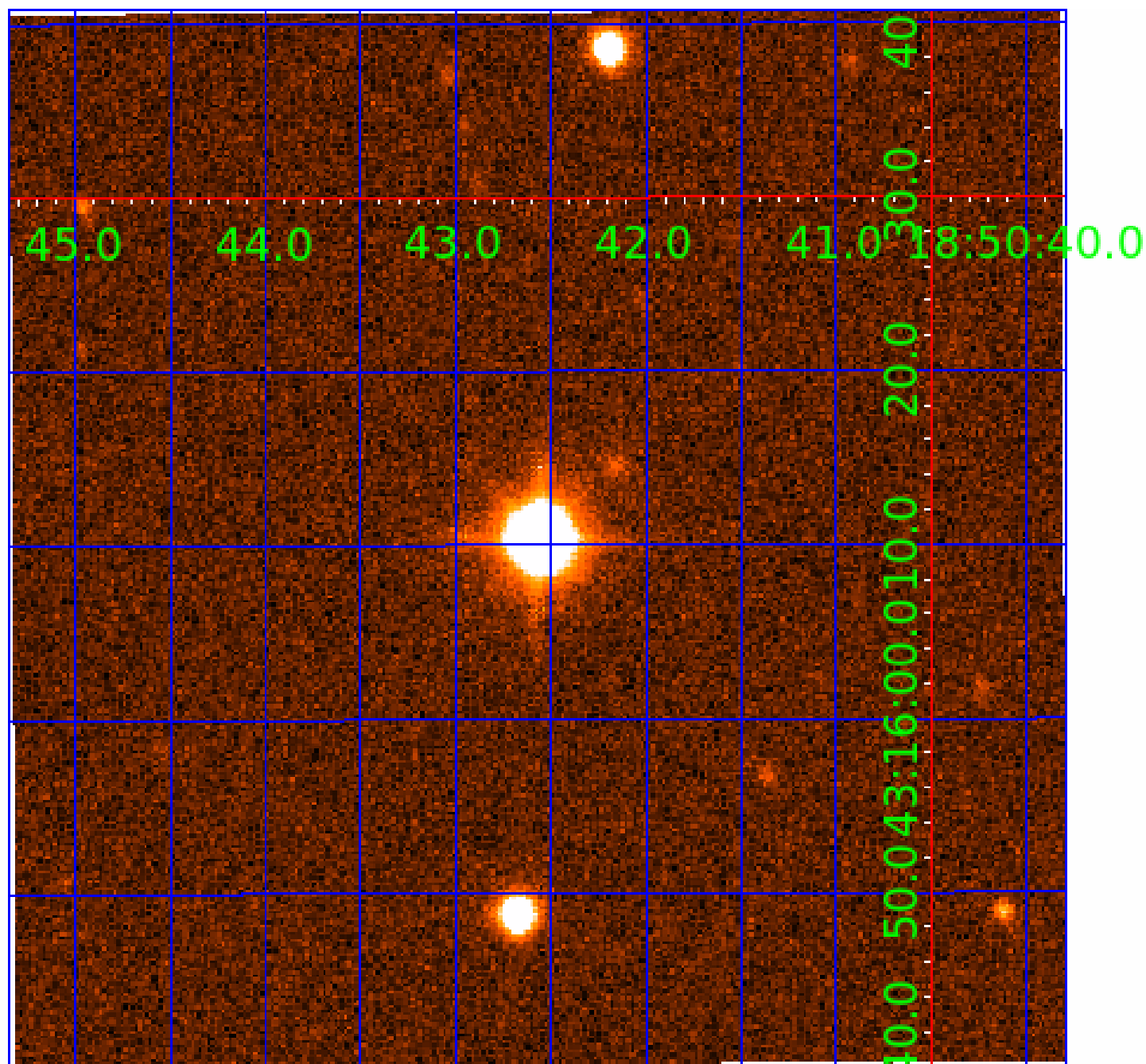


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007585445

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})
007585445-01	OBS	No	1.332387	132.316880	165.5	3.722	13.0	12.9	2.15	7723	3.19	18457.07
007585445-02	OBS	No	1.332332	132.776245	133.6	4.820	12.4	12.1	2.15	7723	2.90	18458.10
007585445-03	OBS	No	1.332344	131.904021	168.7	4.027	13.7	15.7	2.15	7723	3.28	18457.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007585445-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007585445-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD
007585445-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_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.

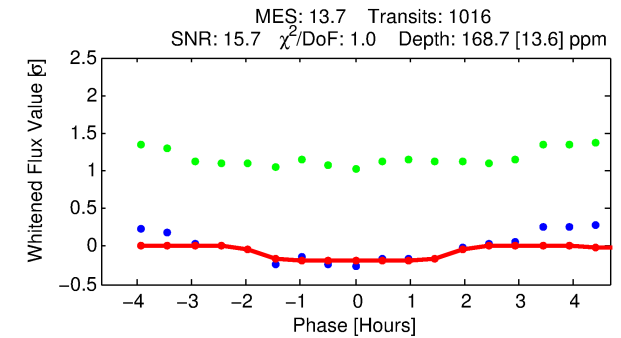
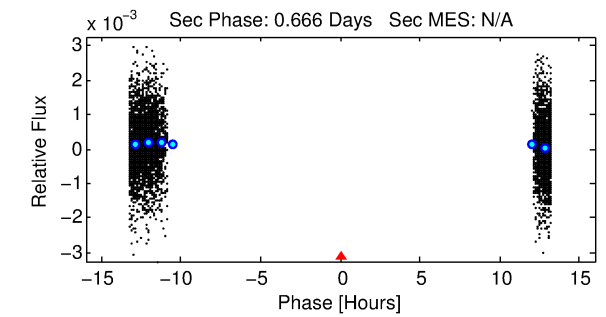
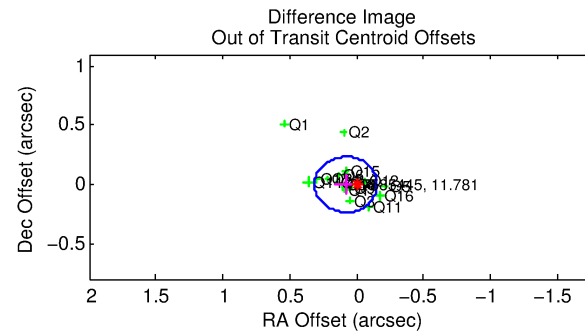
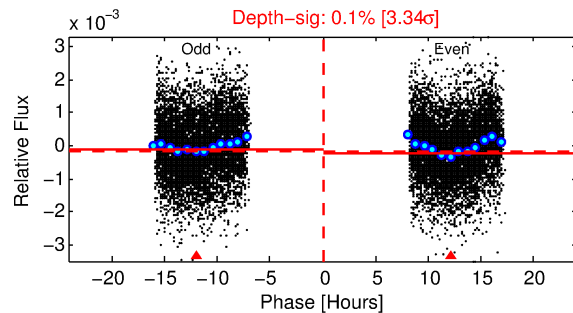
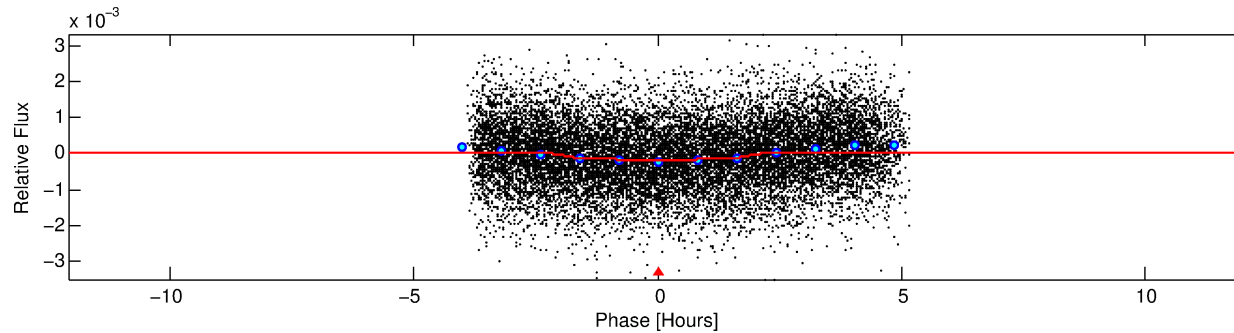
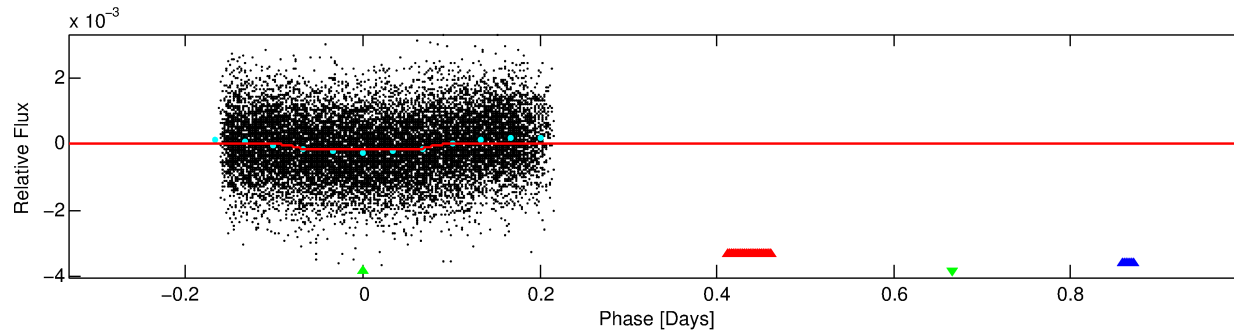
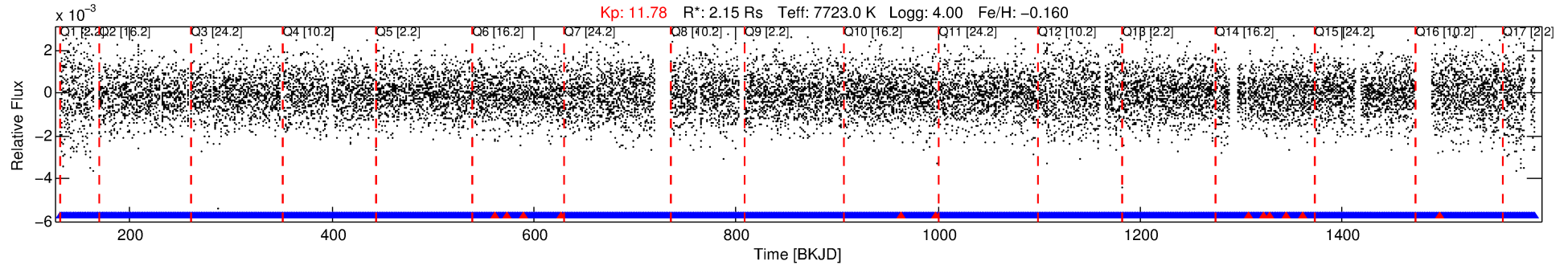
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007585445-03

No Significant Match Found

DV One-Page Summary

KIC: 7585445 Candidate: 3 of 3 Period: 1.332 d



DV Fit Results:

Period = 1.33234 [0.00001] d
Epoch = 131.9040 [0.0032] BKJD
Rp/R* = 0.0139 [0.0032]
a/R* = 1.49 [1.13]
b = 0.90 [0.28]
Seff = 18457.87 [7672.94]
Teq = 2972 [309] K
Rp = 3.28 [1.20] Re
a = 0.0283 [0.0071] AU

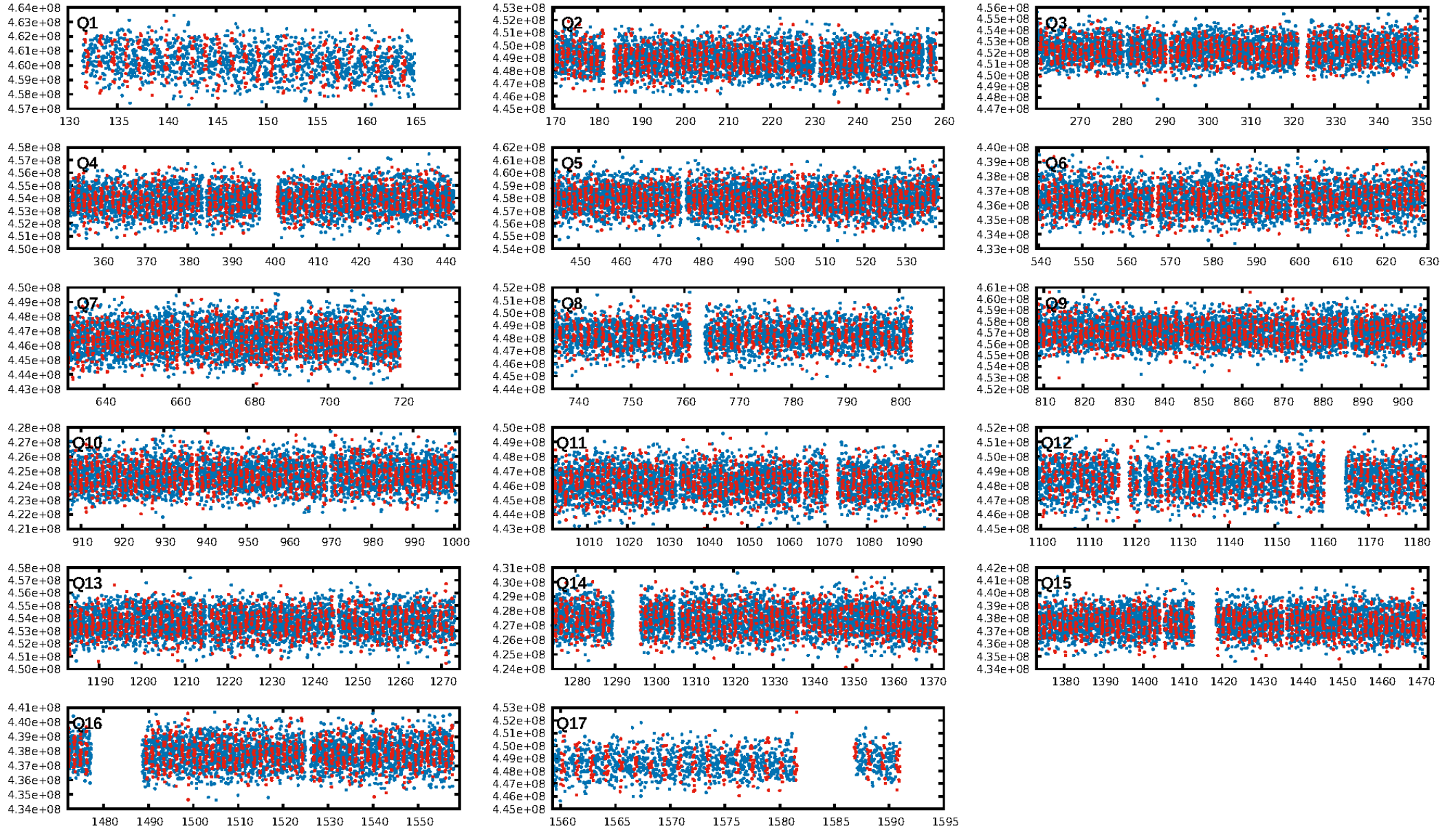
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.99 [958/970]
GhostDiagnostic-chr: 1.49
Centroid-sig: 35.2%
Centroid-so: 0.143 arcsec [1.90 σ]
OotOffset-rm: 0.084 arcsec [1.07 σ]
KicOffset-rm: 0.081 arcsec [0.93 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

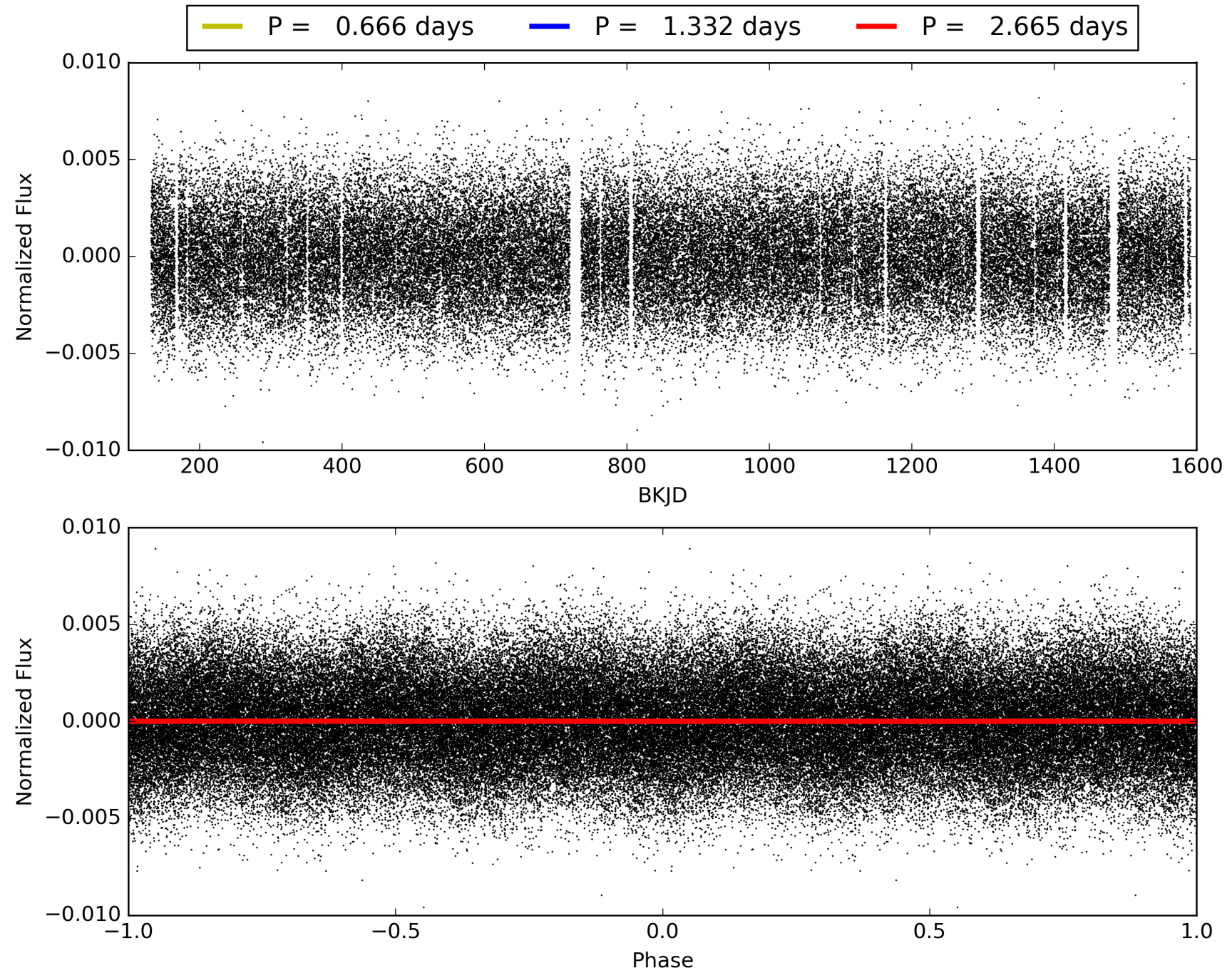
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 04:51:38 Z

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

TCE 007585445-03, PDC Light Curves

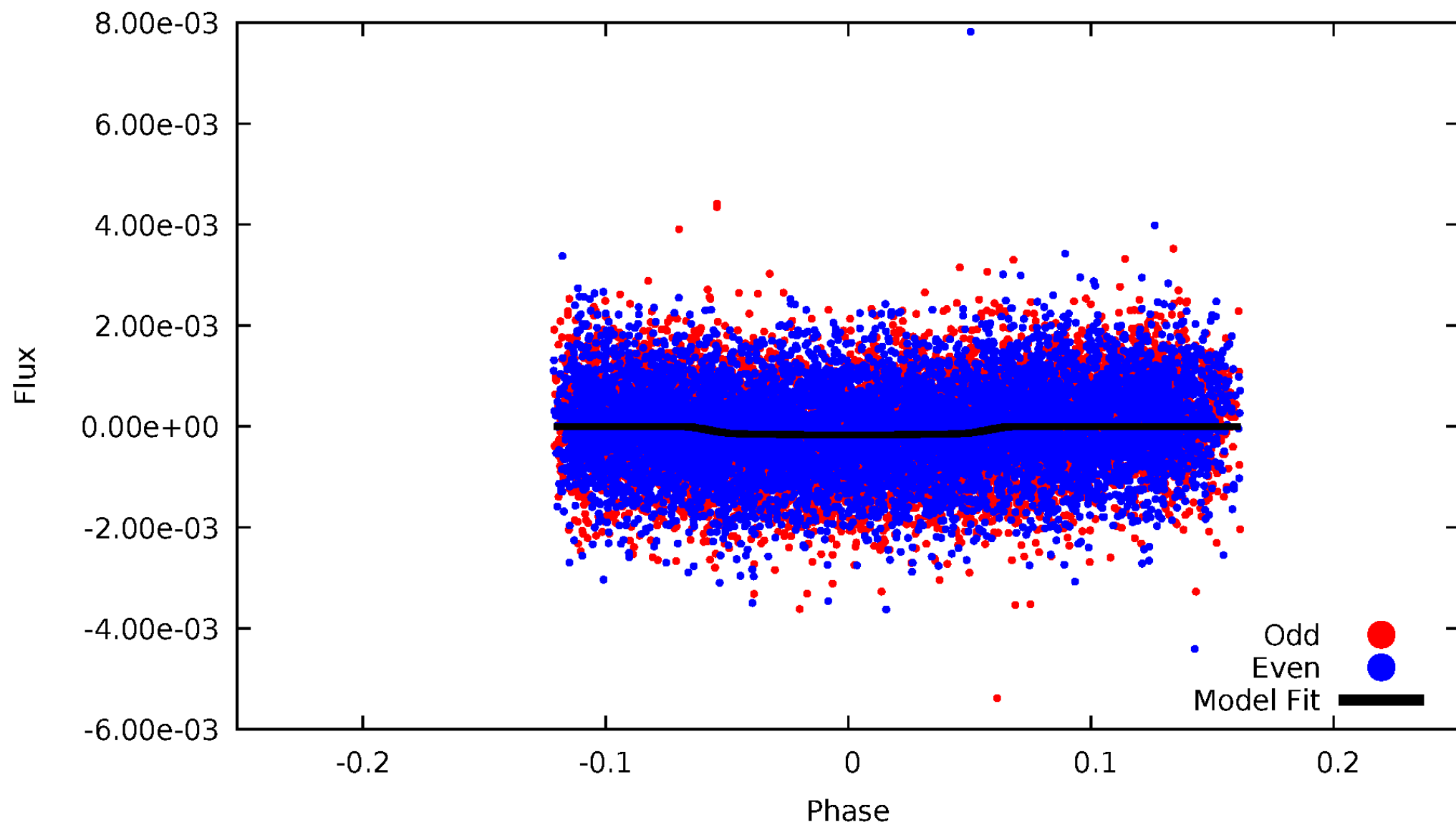


TCE 007585445-03



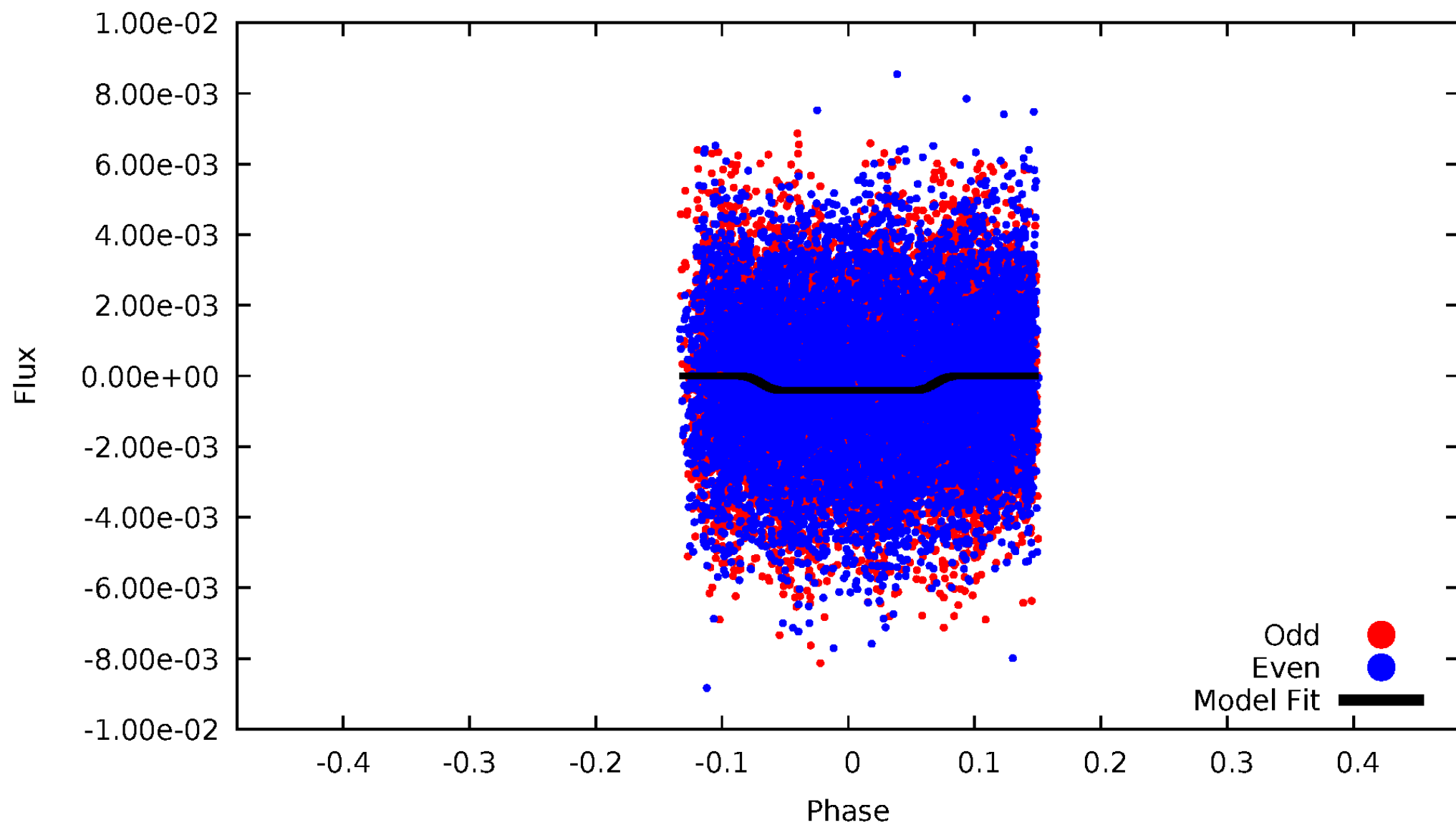
DV Odd/Even

TCE 007585445-03



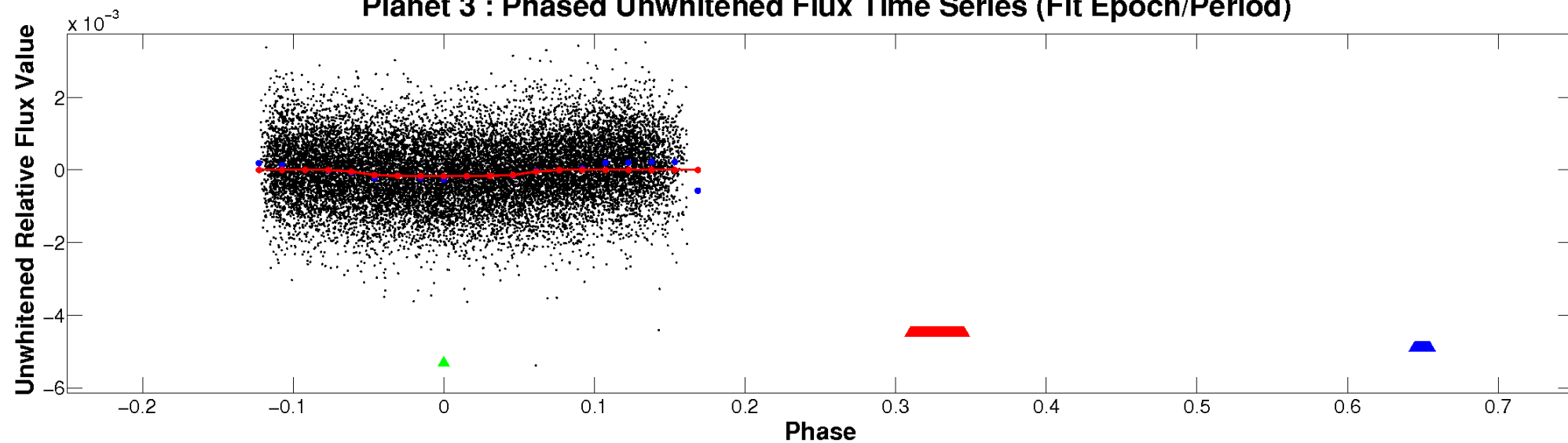
ALT Odd/Even

TCE 007585445-03

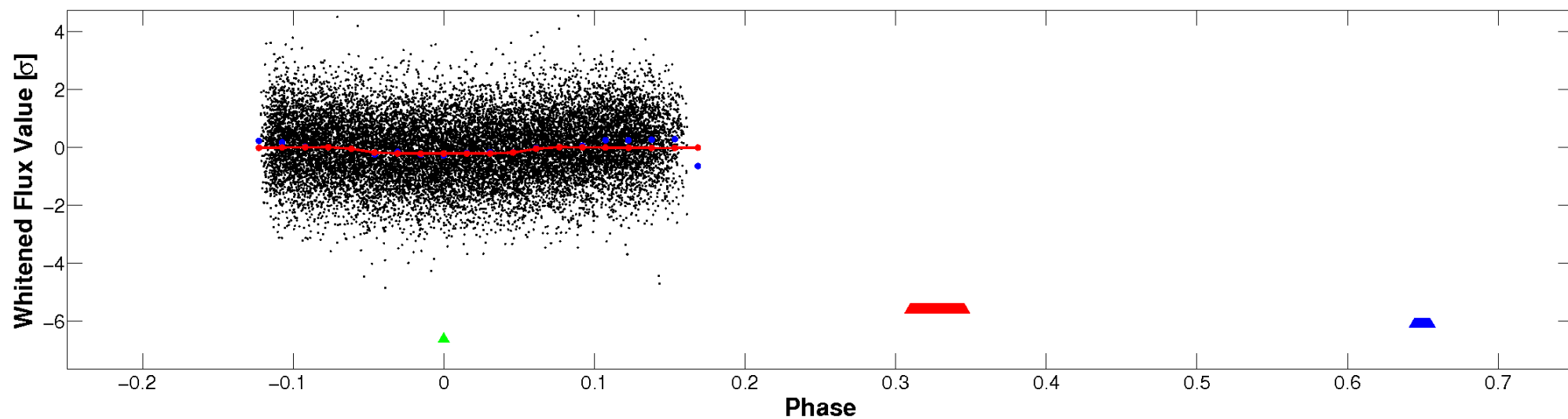


Non-Whitened Vs. Whitened Light Curve

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

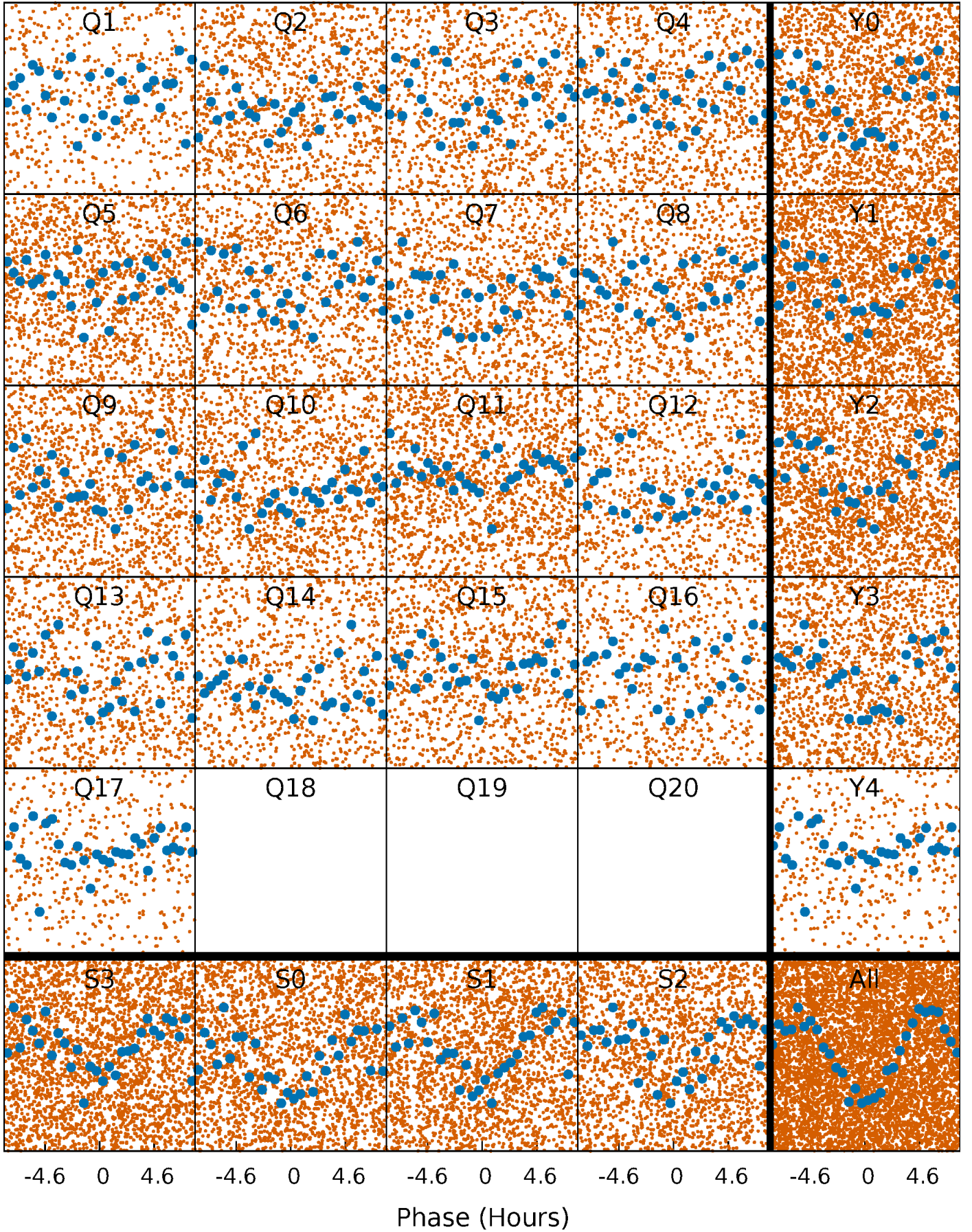


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



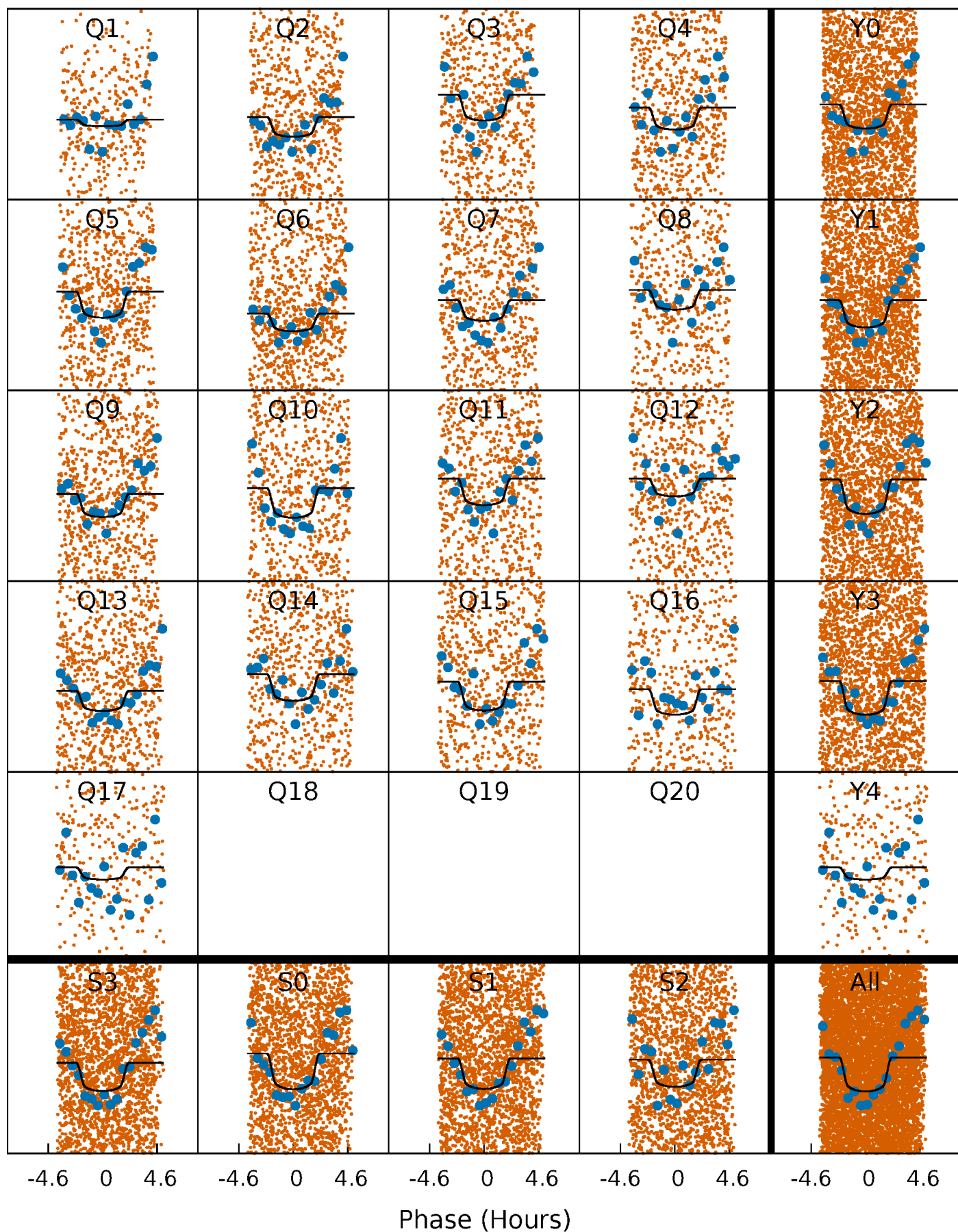
PDC Quarter-Phased Transit Curves

TCE 007585445-03 P= 1.332344 Days $T_0=131.904021$ (BKJD)



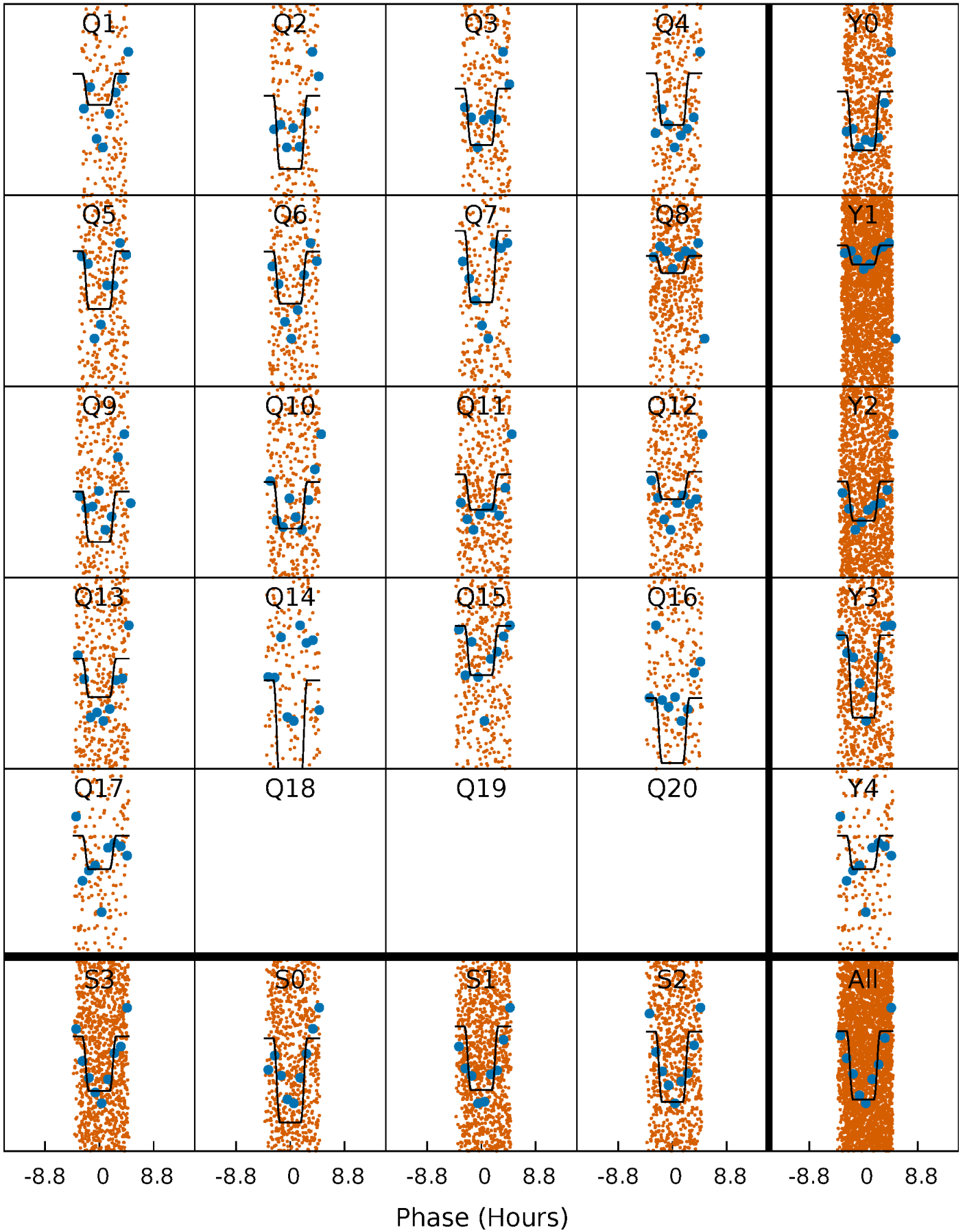
DV Quarter-Phased Transit Curves

TCE 007585445-03 $P = 1.332344$ Days $T_0 = 131.904021$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

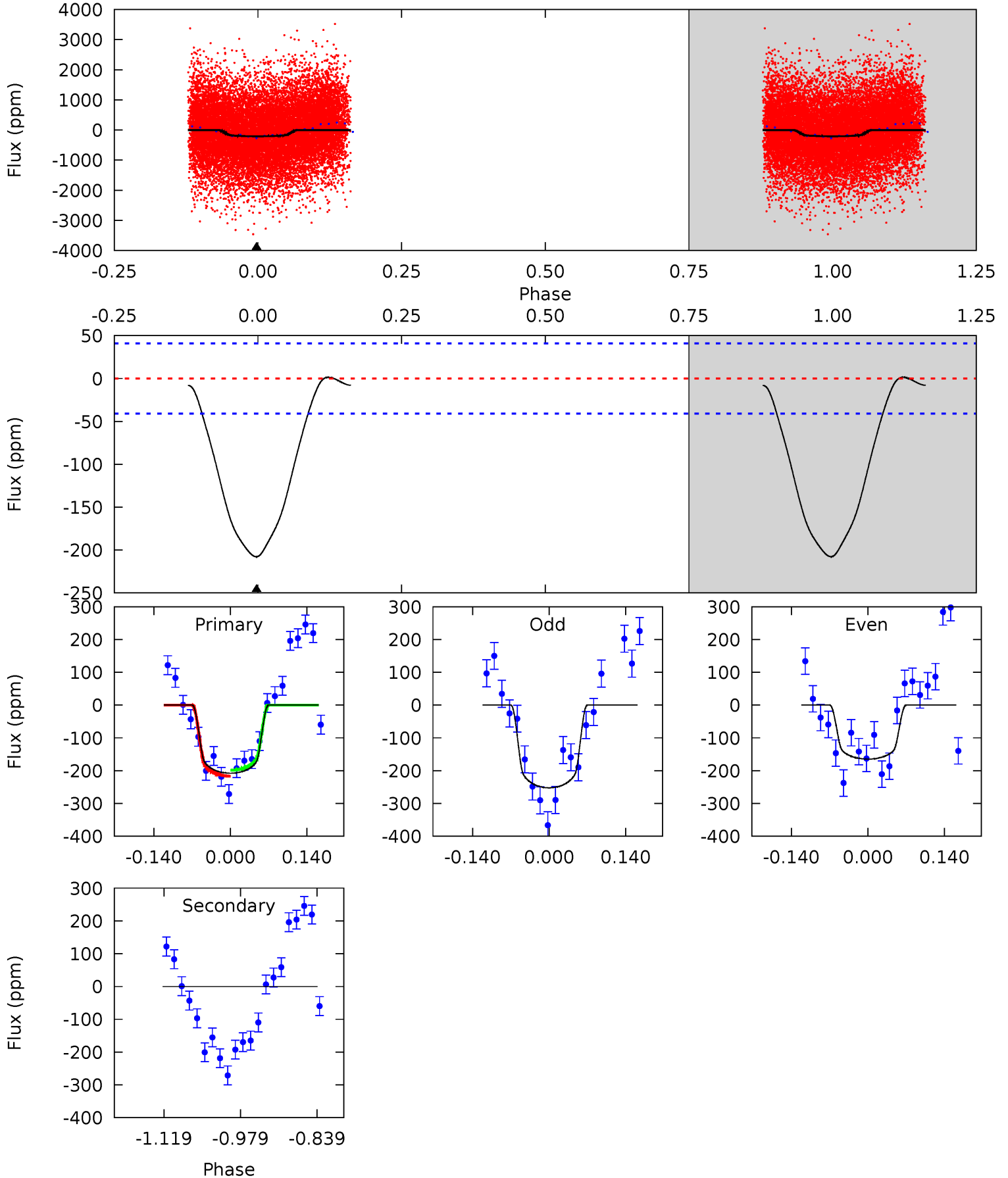
TCE 007585445-03 P= 1.332378 Days $T_0=131.882959$ (BKJD)



DV Model-Shift Uniqueness Test

007585445-03, P = 1.332344 Days, E = 130.571677 Days

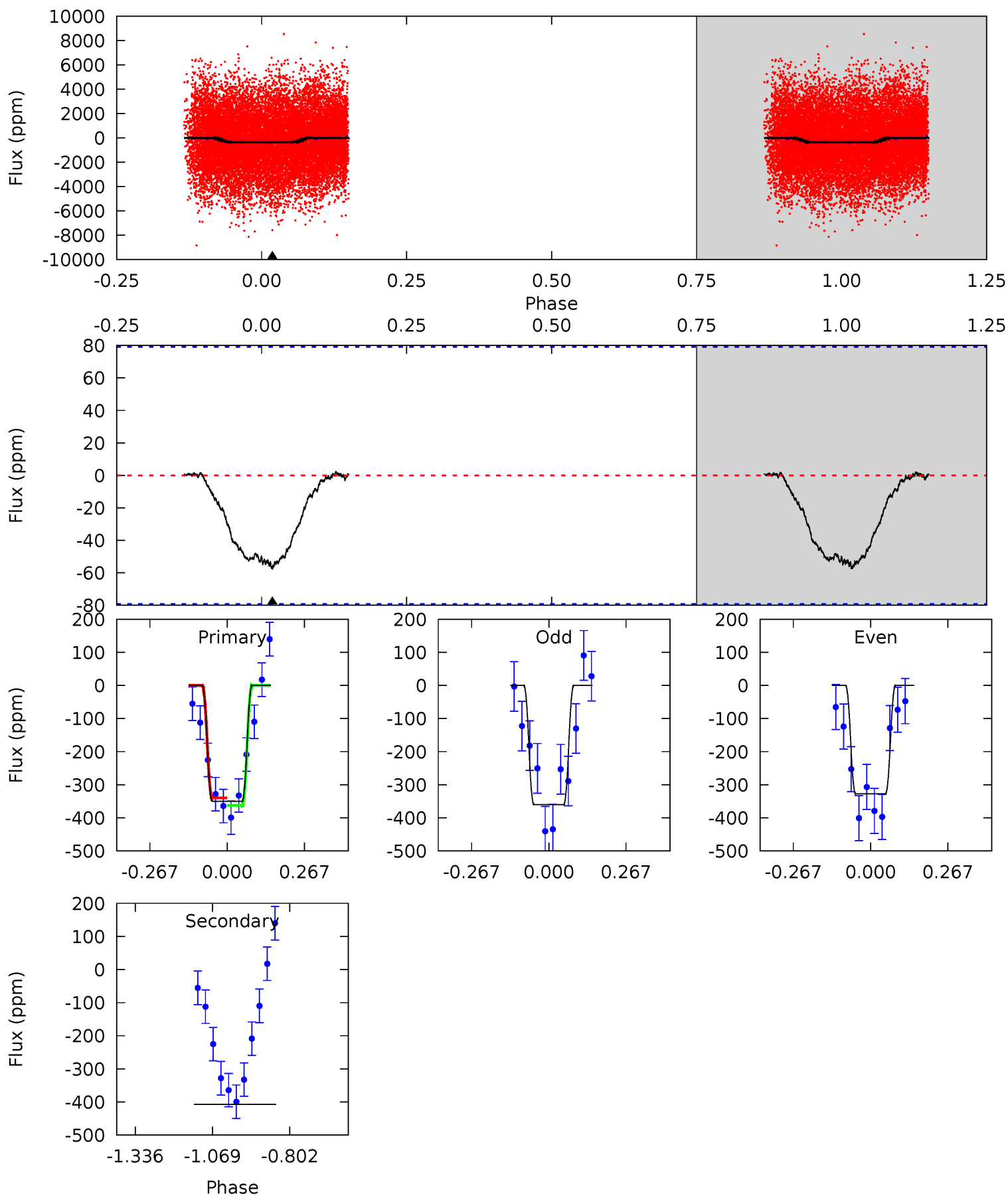
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.8	0	0	0	4.49	1.48	0.30	22.8	22.8	0	0	4.85	1.00	0.01	1.00



Alt Model-Shift Uniqueness Test

007585445-03, P = 1.332378 Days, E = 130.550581 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.16	0	0	0	4.35	1.11	0.05	3.16	3.16	0	0	0.15	0	0.04	0.70



Stellar Parameters For KIC 007585445

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7723^{+211}_{-316}	$4.003^{+0.216}_{-0.144}$	$-0.160^{+0.200}_{-0.350}$	$2.155^{+0.502}_{-0.614}$	$1.703^{+0.198}_{-0.322}$	$0.239^{+0.301}_{-0.100}$
	+3%/-4%	+5%/-4%	+125%/-219%	+23%/-28%	+12%/-19%	+126%/-42%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007585445-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 9	$3.20^{+0.95}_{-0.81}$	4106^{+284}_{-291}	-3732^{+6847}_{-562}	$0.017^{+0.386}_{-0.396}$
Alt.	0 ± 18	$4.63^{+1.00}_{-0.84}$	4101^{+314}_{-296}	-3672^{+6827}_{-617}	$0.028^{+0.382}_{-0.405}$

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

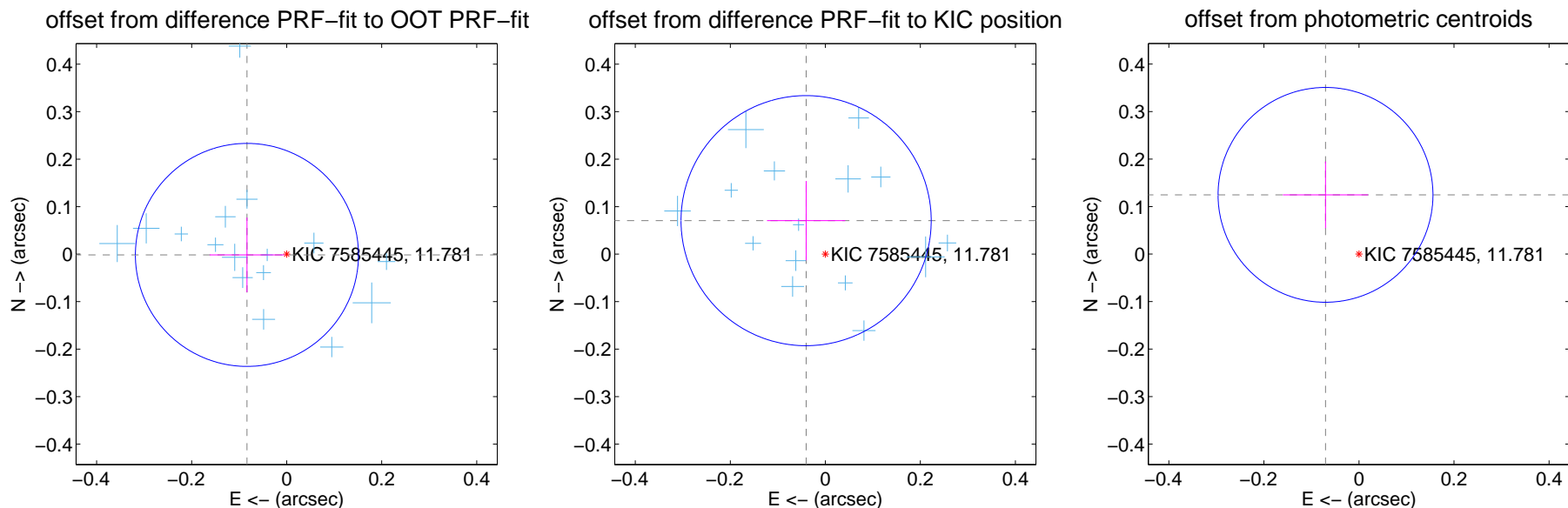
DV Centroid Data

Supplemental centroid analysis for 007585445-03. **Kepler magnitude: 11.78.** Transit SNR 15.66

There are 17 quarters with good PRF difference image offsets

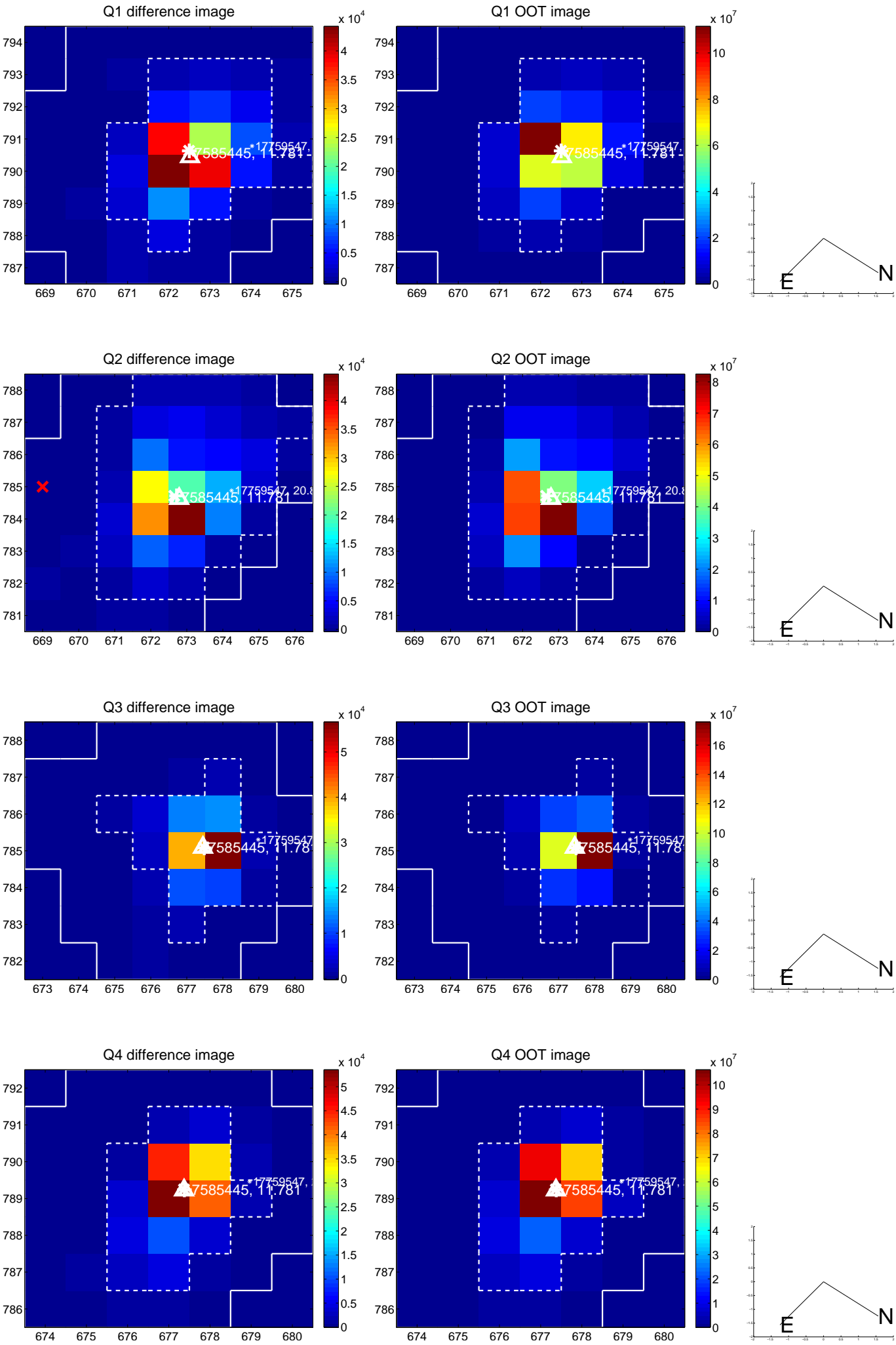
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.084 ± 0.078	1.07	0.084 ± 0.079	-0.002 ± 0.079
PRF-fit source offset from KIC position	0.081 ± 0.088	0.93	0.040 ± 0.082	0.071 ± 0.083
photometric centroid source offset	0.14 ± 0.08	1.90	0.07 ± 0.09	0.12 ± 0.07

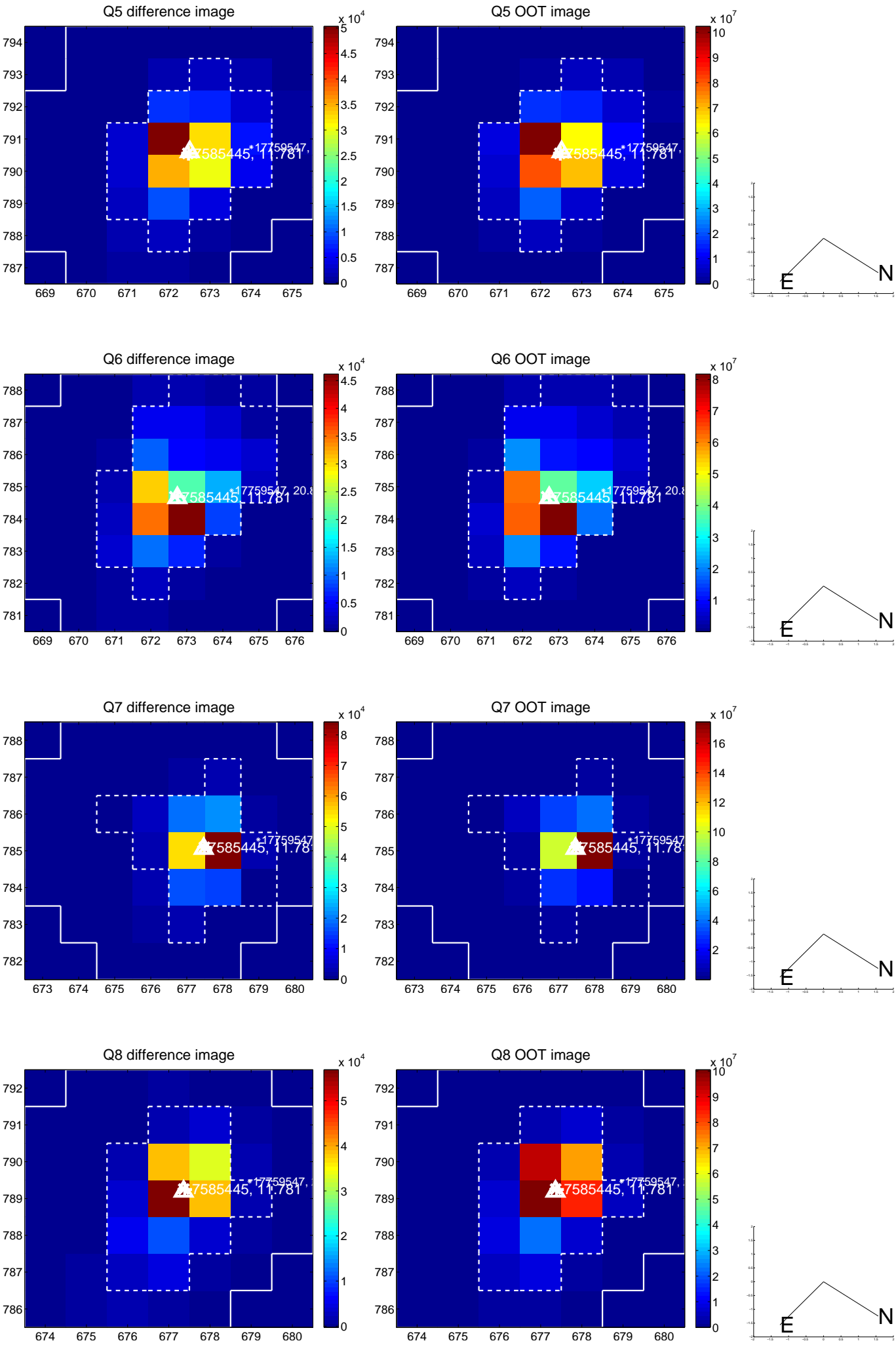


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

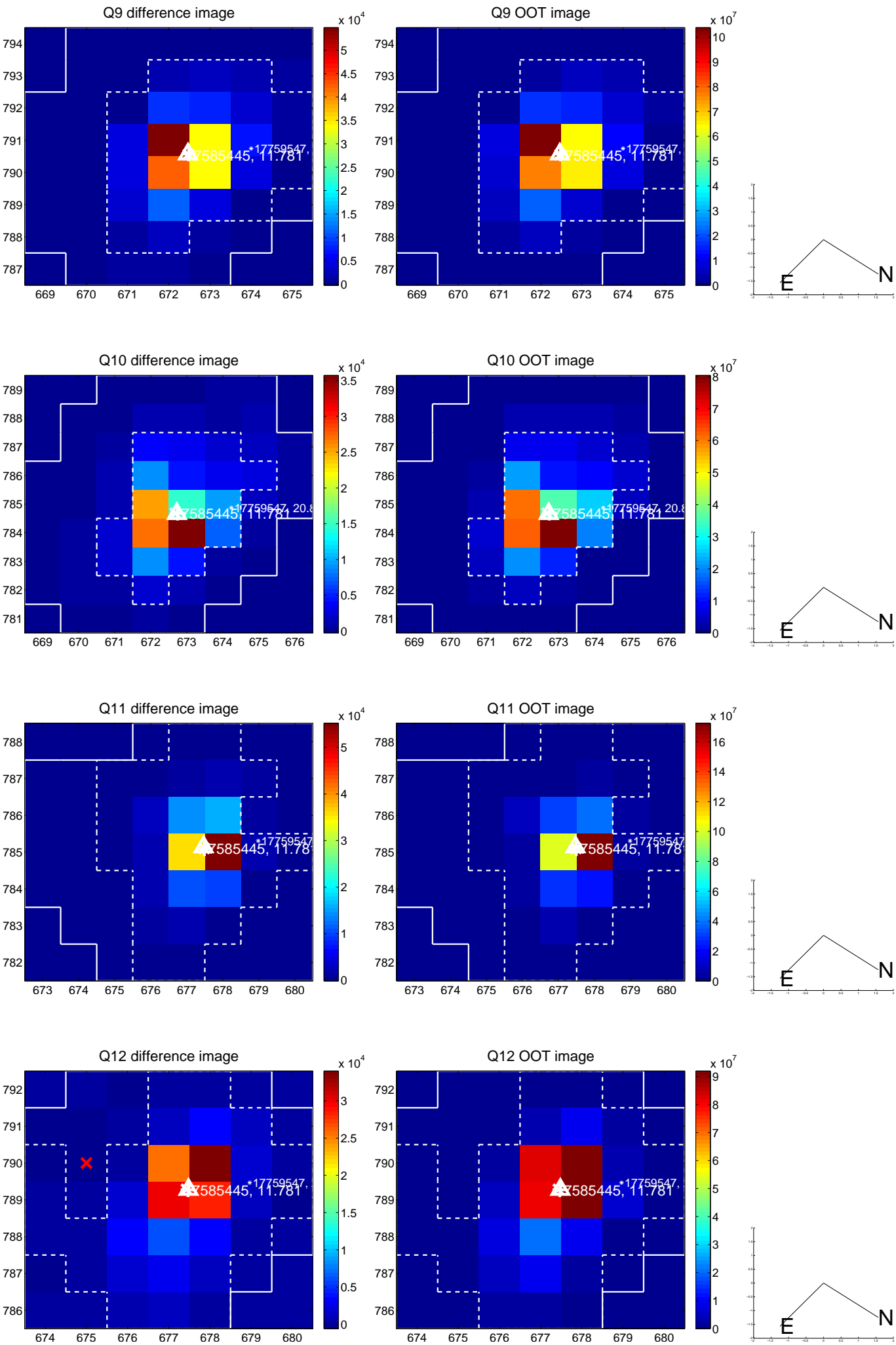
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



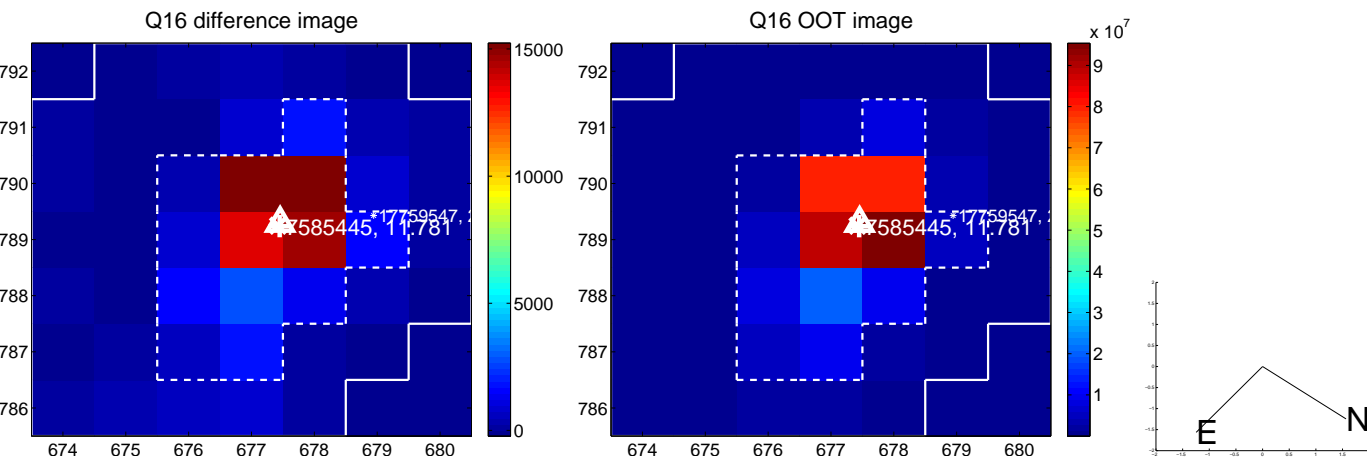
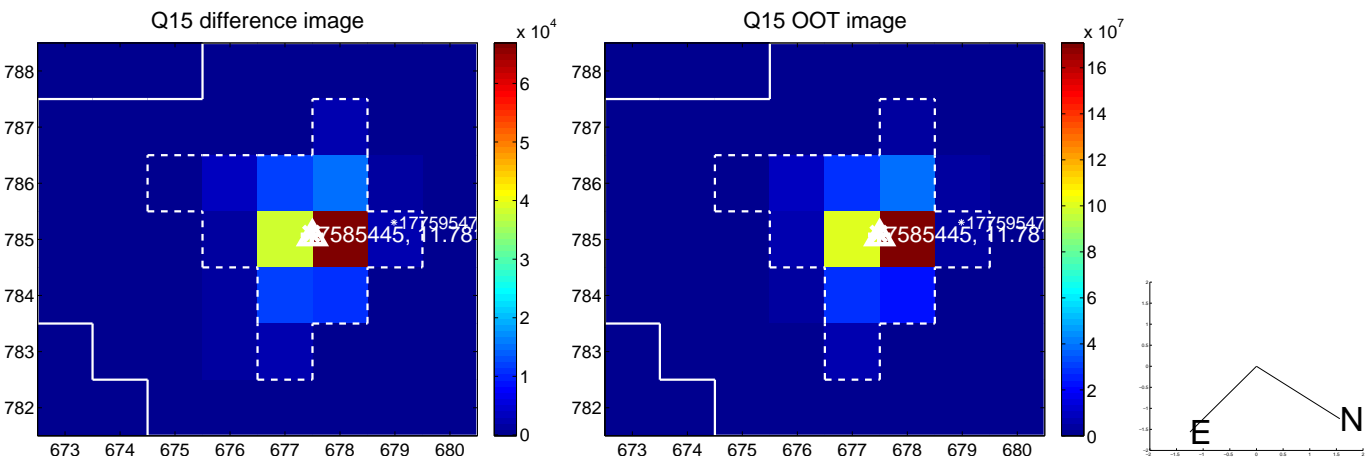
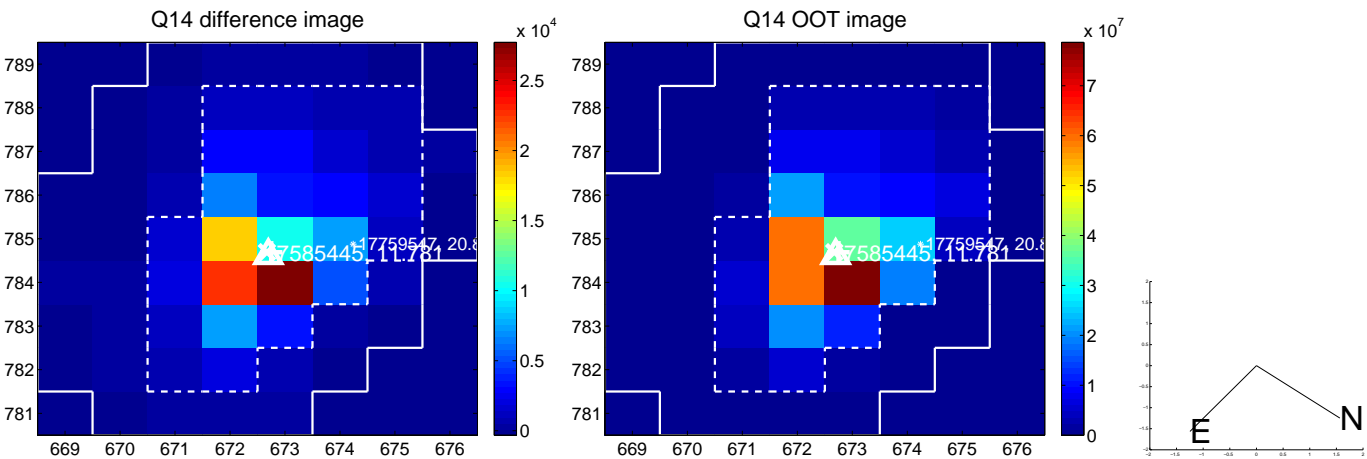
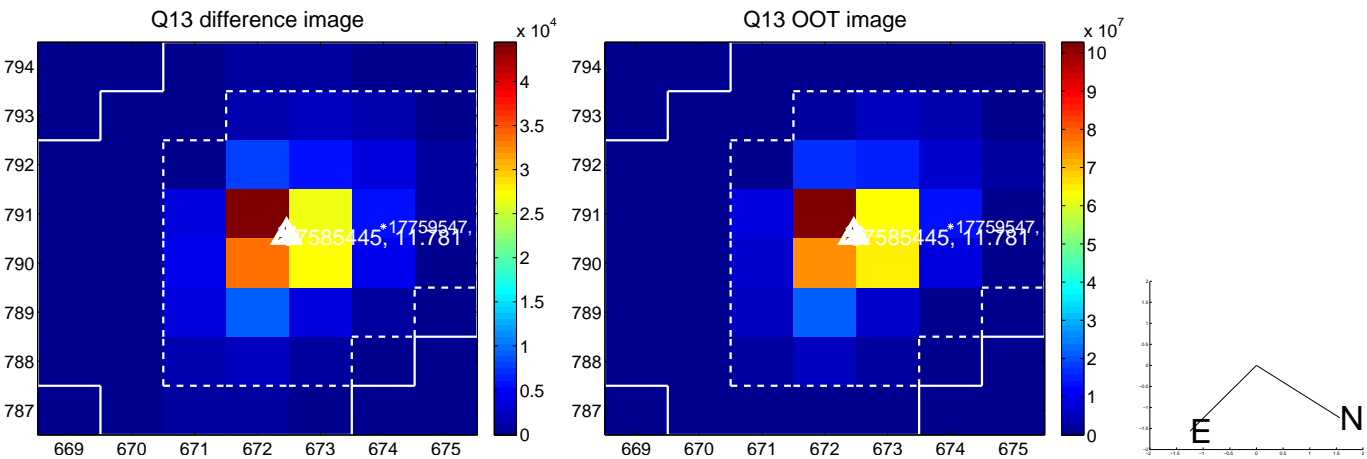
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



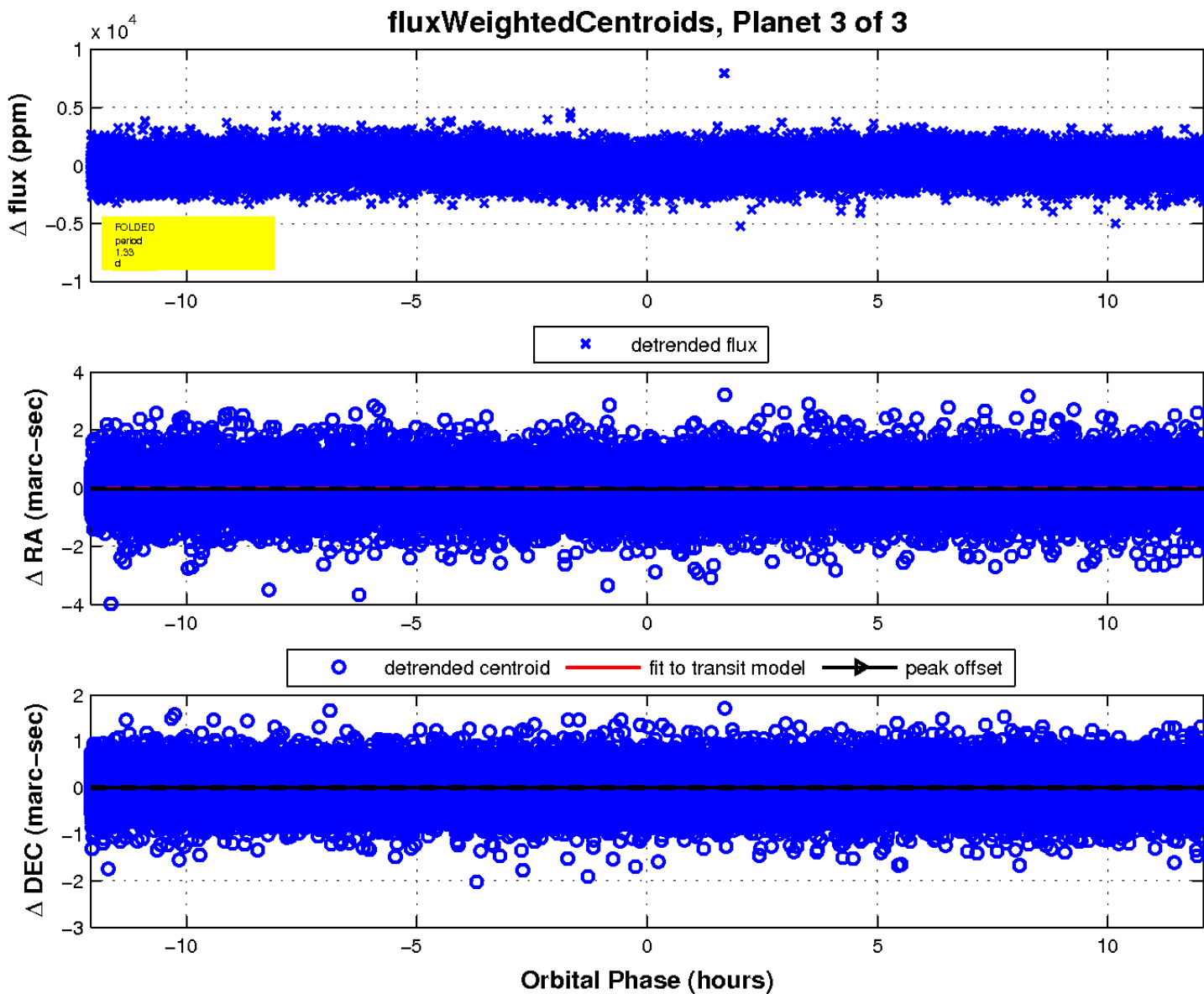
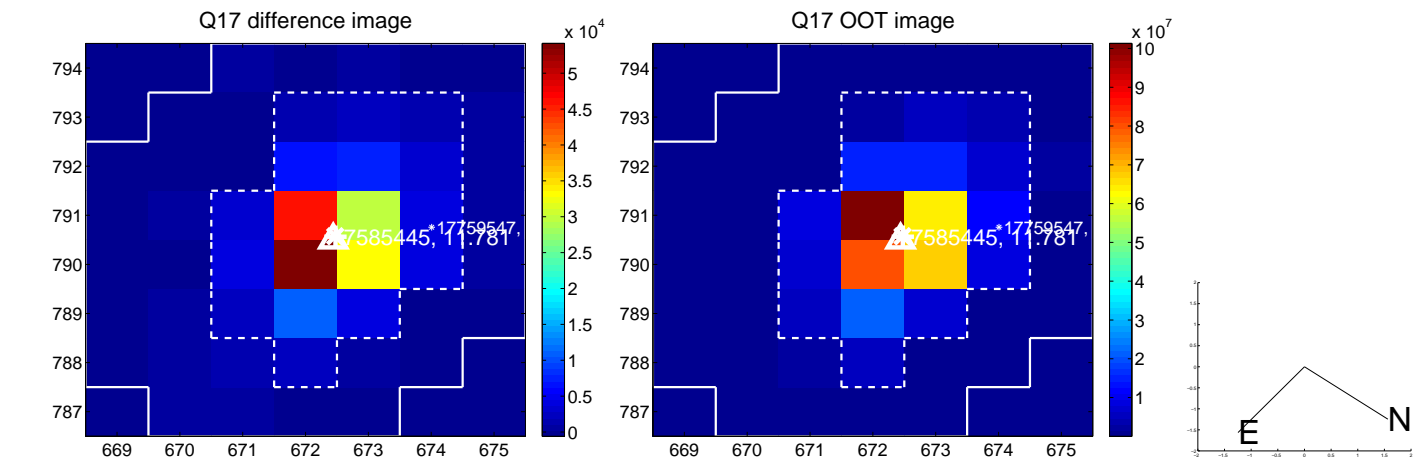
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

