

KIC 006804957

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})
006804957-01	OBS	No	0.554175	131.781145	544.2	1.272	18.3	20.5	1.31	6233	3.62	12852.77
006804957-02	OBS	No	0.554193	131.632507	650.2	1.402	19.7	24.0	1.31	6233	3.95	12852.22
006804957-03	OBS	No	0.554181	132.051619	263.3	1.500	19.6	-1.0	1.31	6233	2.14	12852.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006804957-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
006804957-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006804957-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

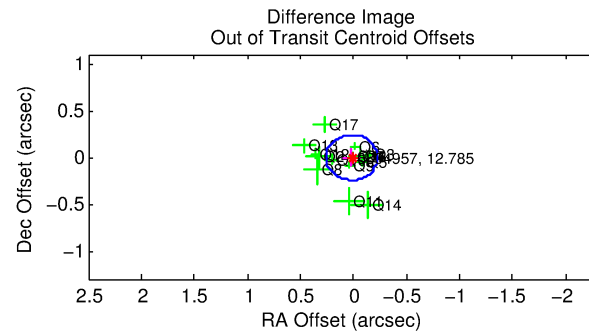
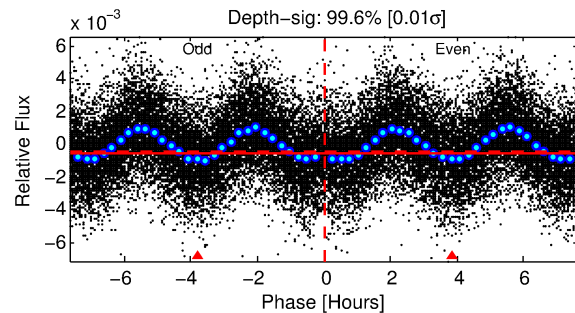
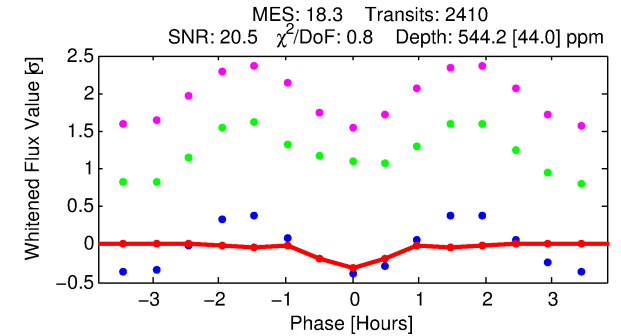
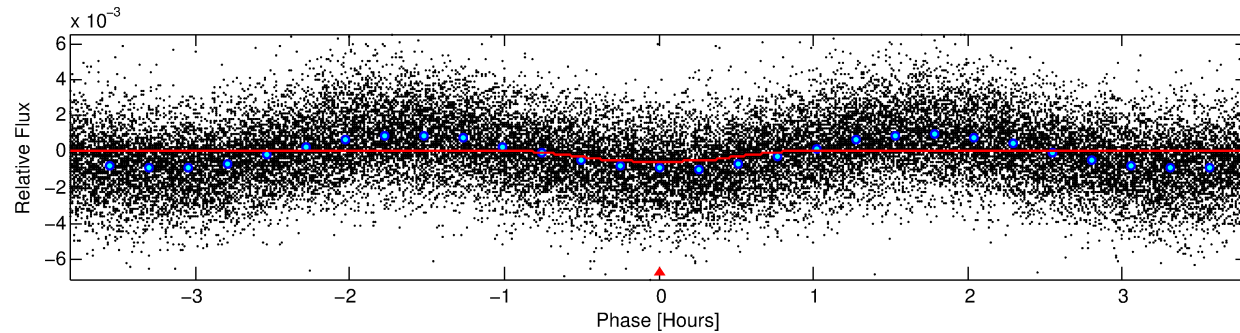
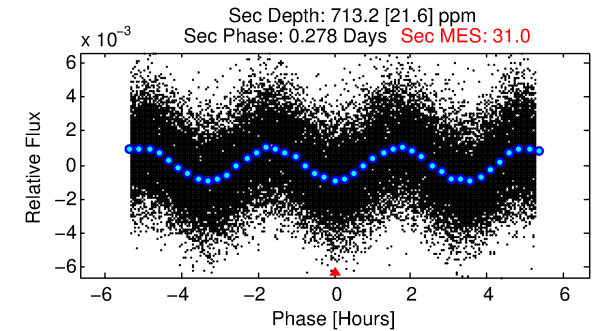
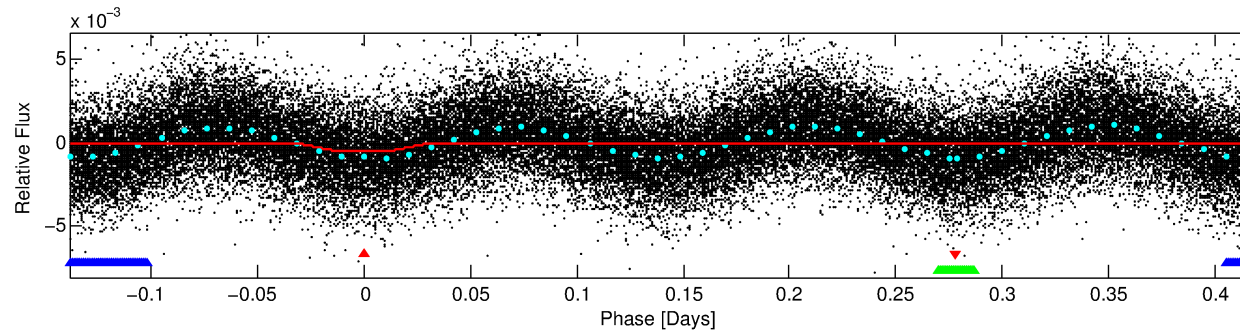
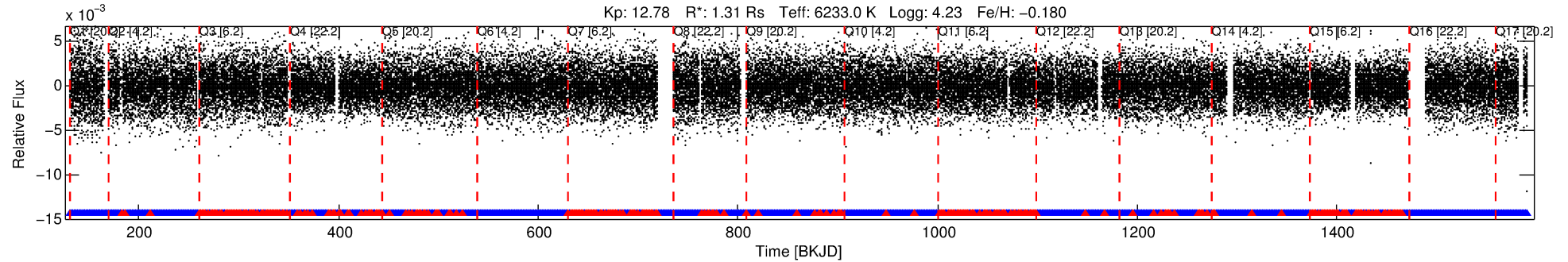
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006804957-01

No Significant Match Found

DV One-Page Summary

KIC: 6804957 Candidate: 1 of 3 Period: 0.554 d



DV Fit Results:

Period = 0.55418 [0.00001] d
Epoch = 131.7811 [0.0010] BKJD
Rp/R* = 0.0253 [0.0065]
a/R* = 1.88 [1.82]
b = 0.90 [0.29]
Seff = 12852.77 [4932.39]
Teff = 2715 [260] K
Rp = 3.62 [1.46] Re
a = 0.0135 [0.0034] AU
Ag = 5.43 [3.40] [1.30σ]
Teffp = 6409 [865] K [4.09σ]

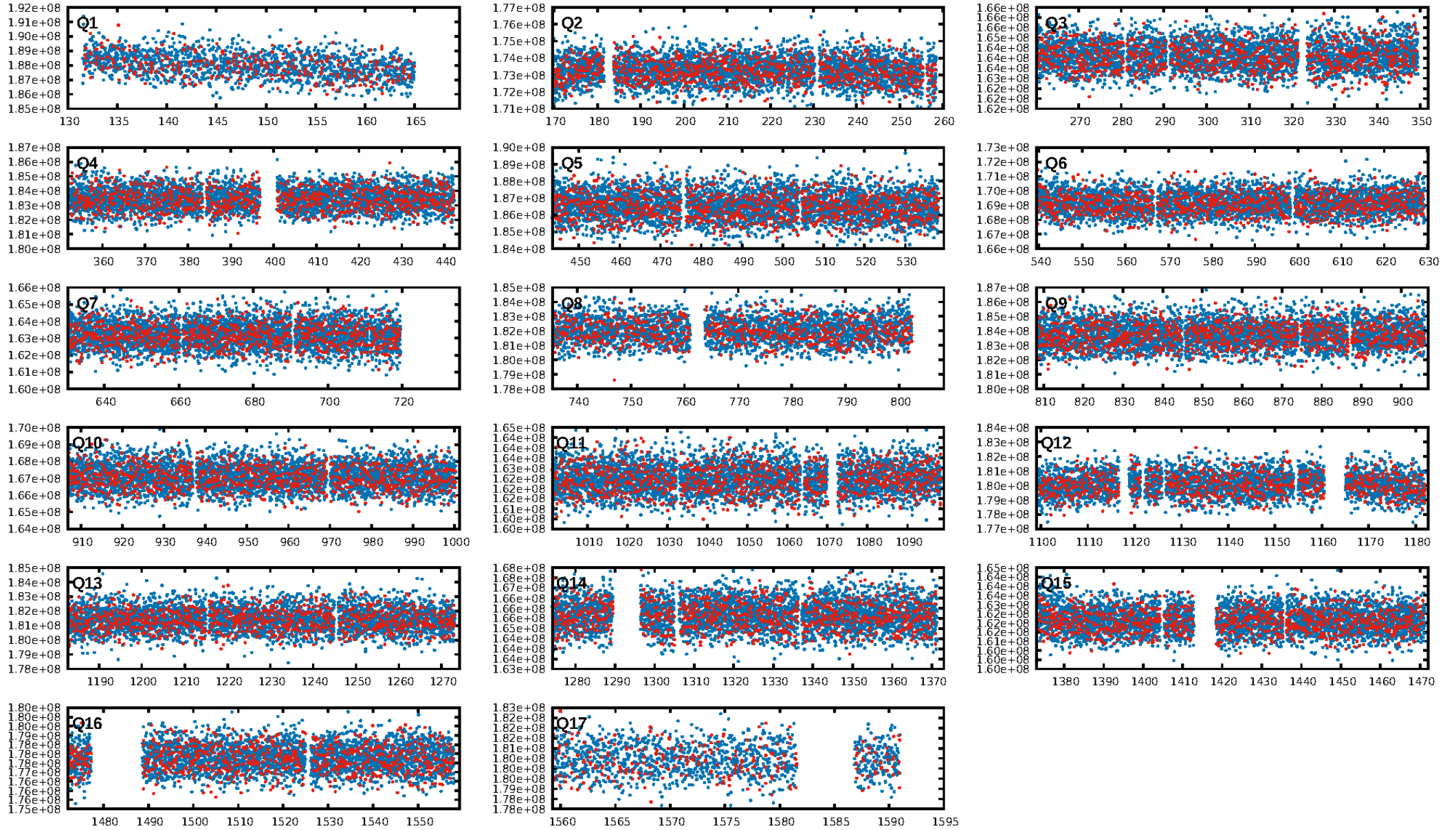
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.85 [1946/2301]
GhostDiagnostic-chr: 0.6375
Centroid-sig: 11.9%
Centroid-so: 0.150 arcsec [3.26σ]
OotOffset-rm: 0.015 arcsec [0.19σ]
KicOffset-rm: 0.152 arcsec [1.97σ]
OotOffset-st: 4/3/4/4 [15]
KicOffset-st: 4/3/4/4 [15]
DiffImageQuality-fgm: 1.00 [15/15]
DiffImageOverlap-fno: 0.00 [0/17]

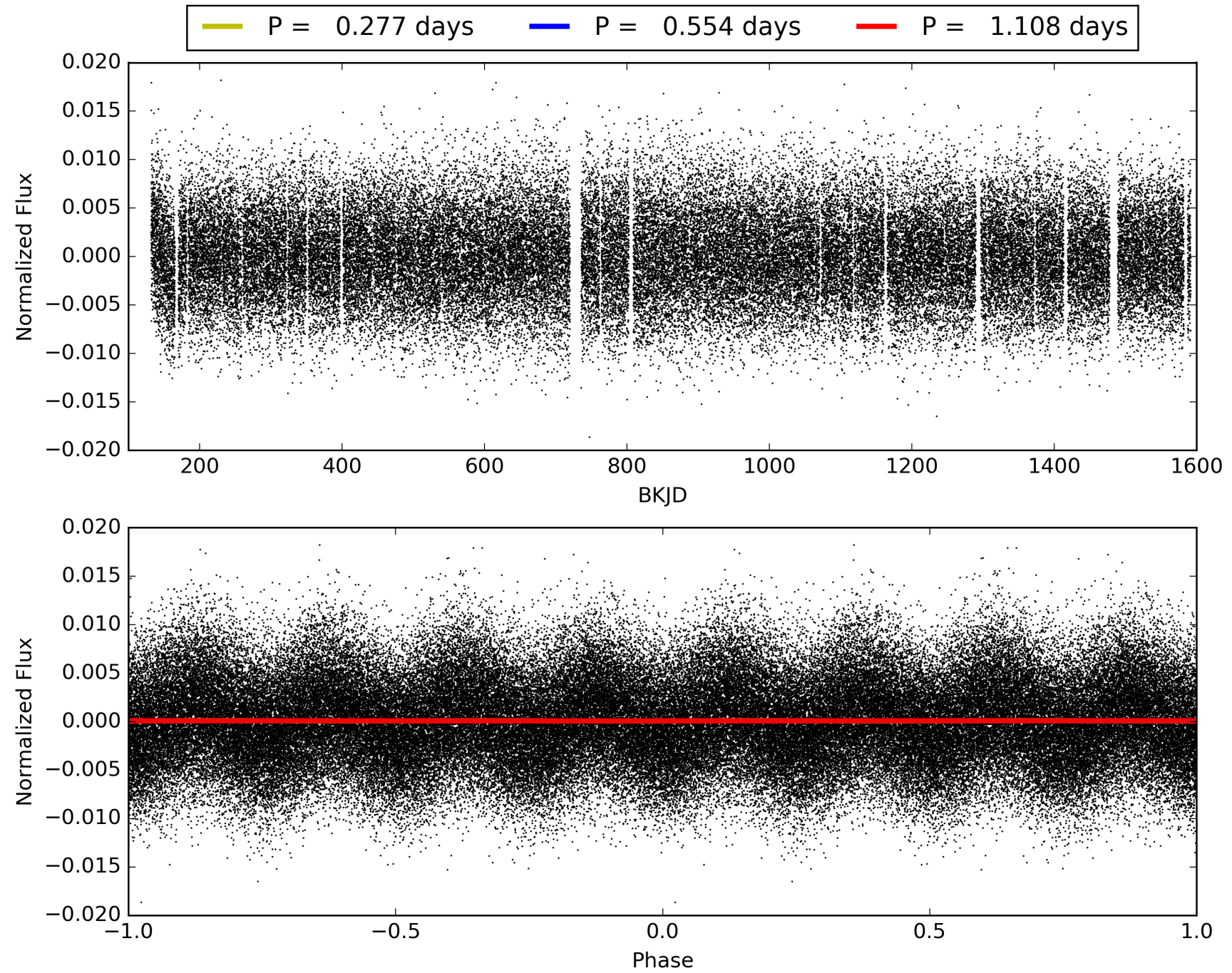
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:35:30 Z

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

TCE 006804957-01, PDC Light Curves

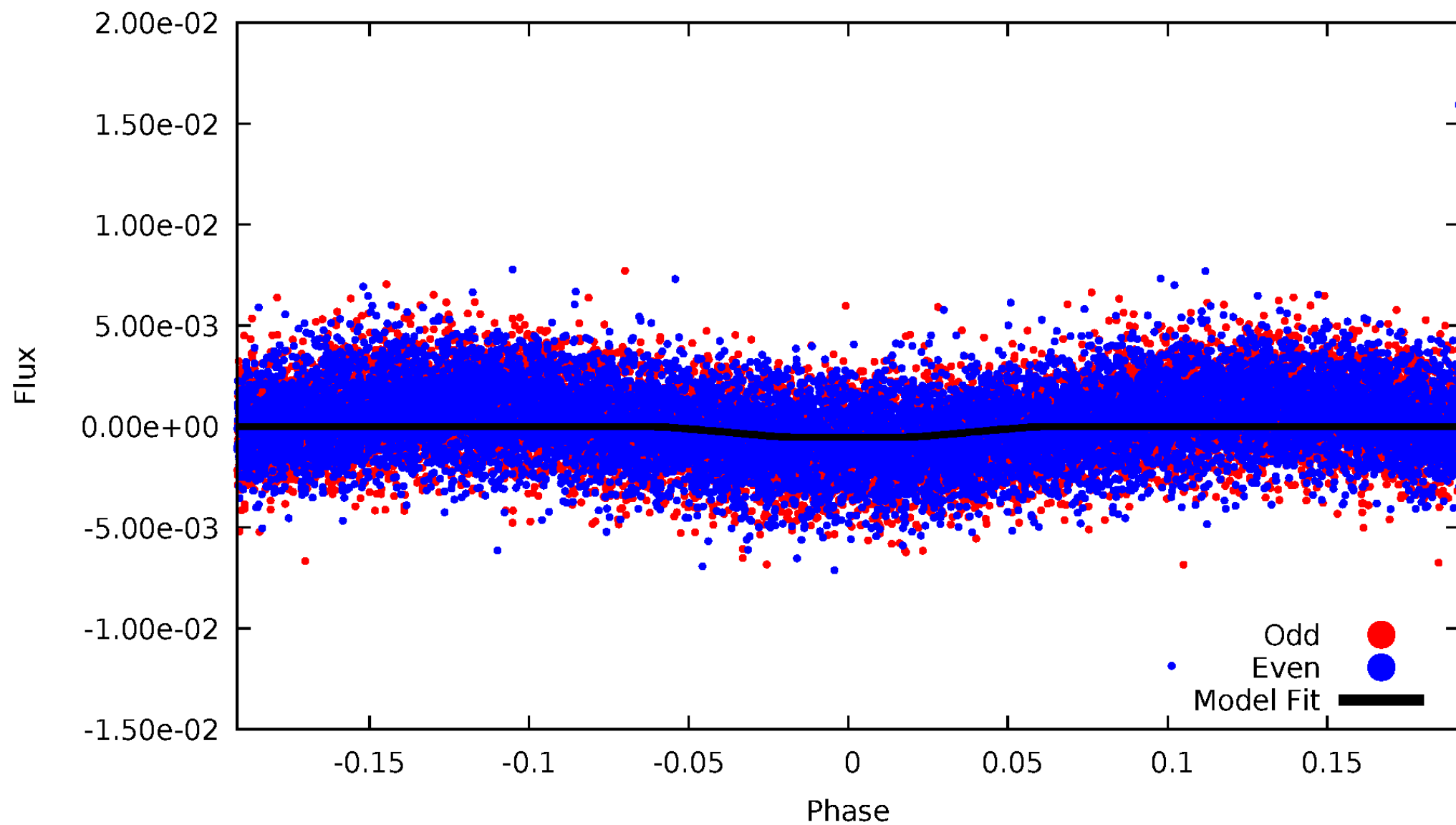


TCE 006804957-01



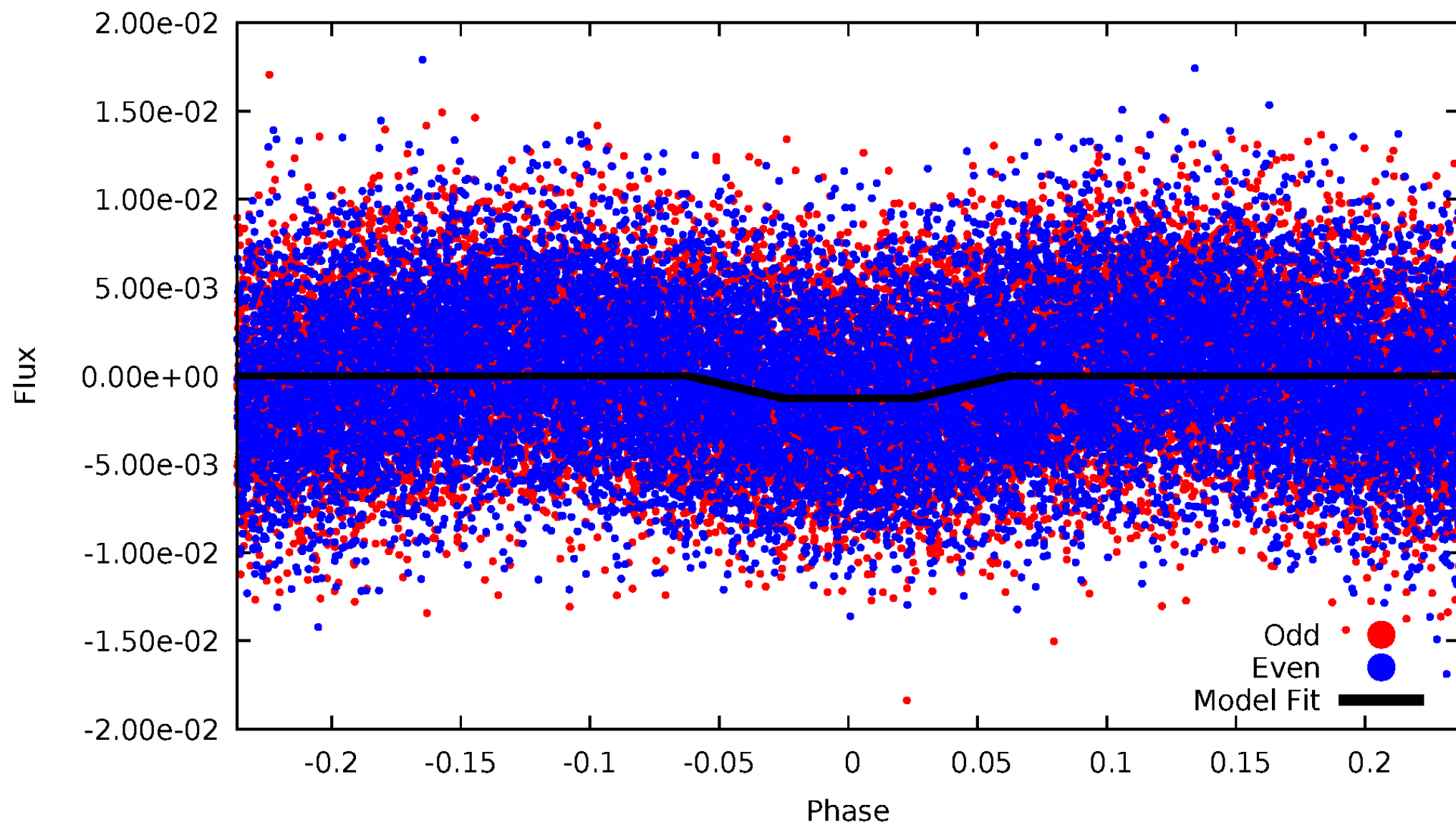
DV Odd/Even

TCE 006804957-01

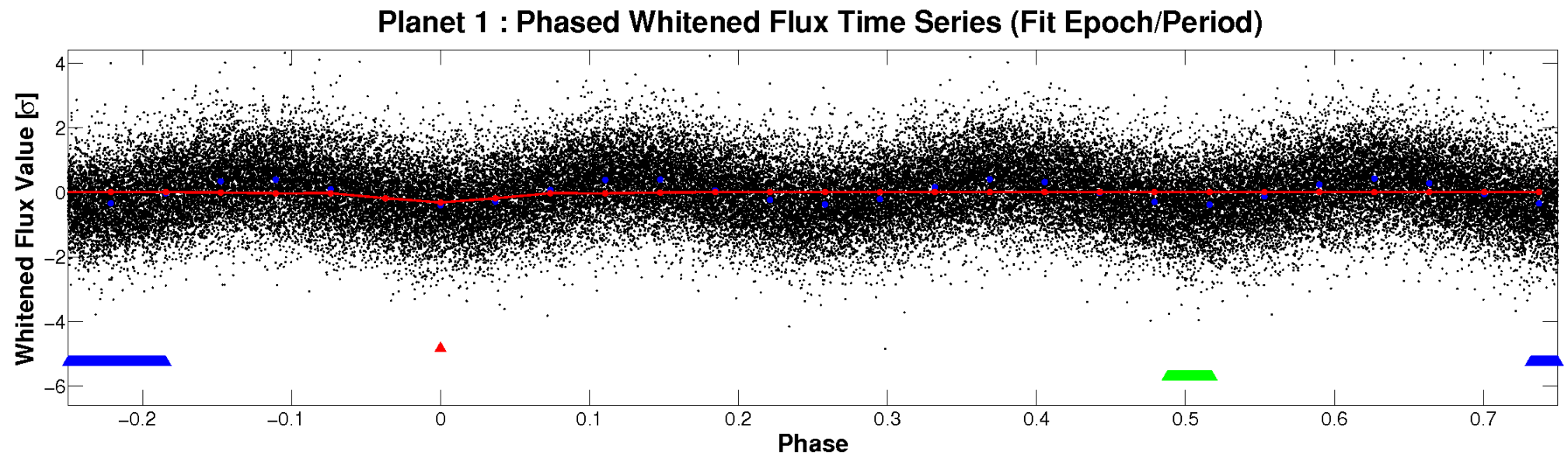
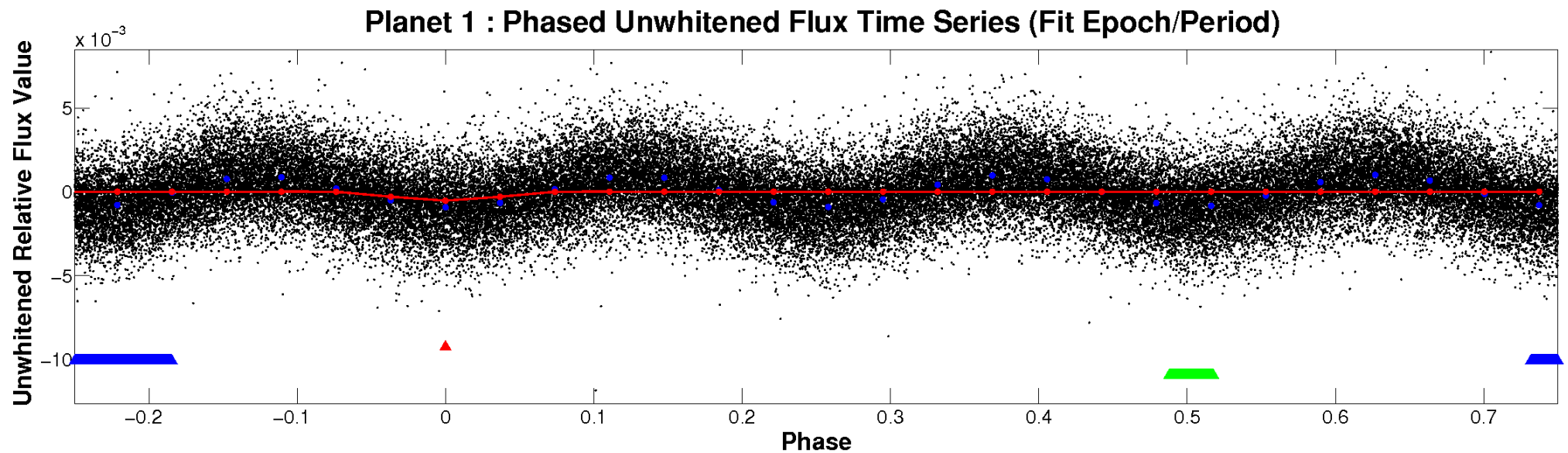


ALT Odd/Even

TCE 006804957-01

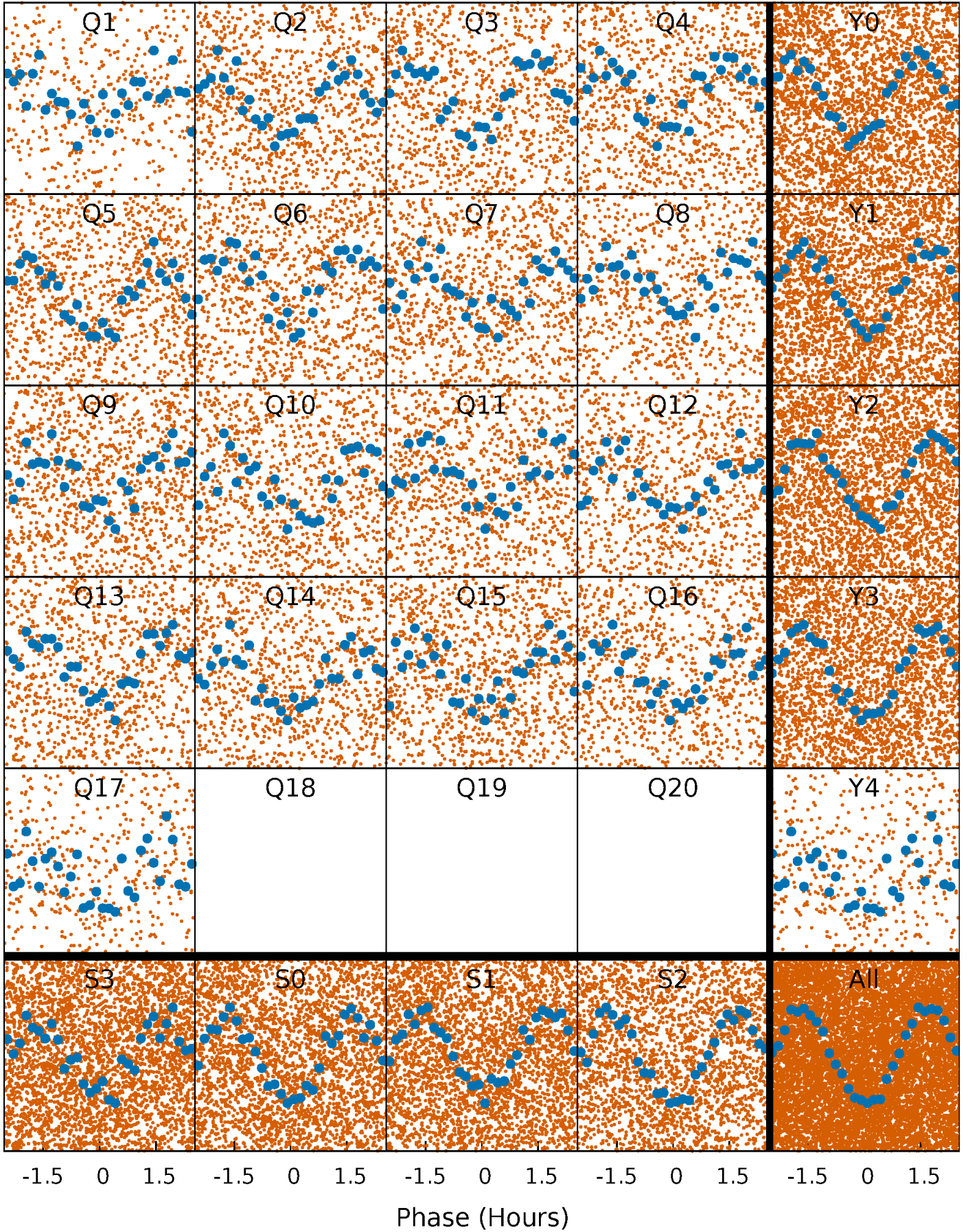


Non-Whitened Vs. Whitened Light Curve



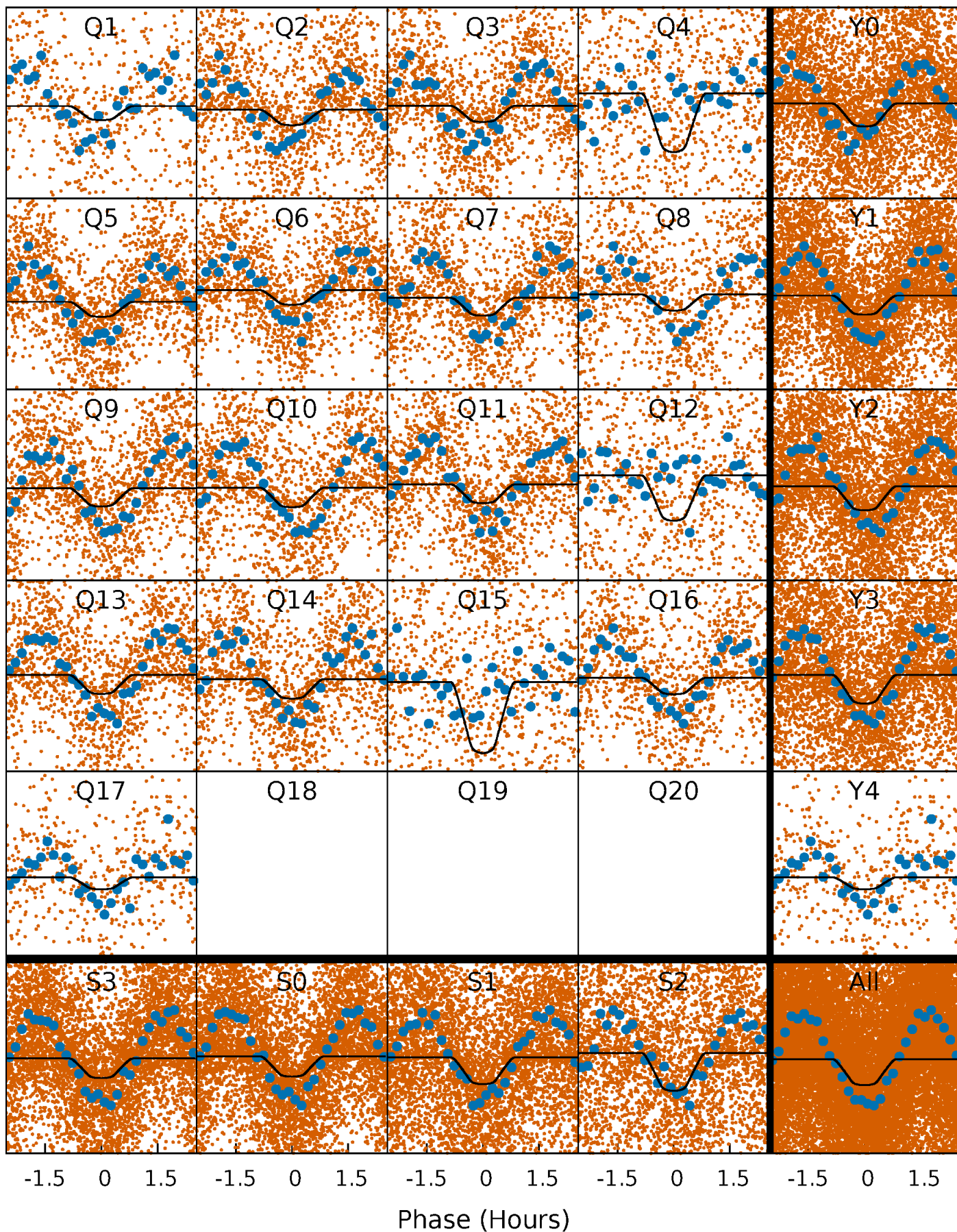
PDC Quarter-Phased Transit Curves

TCE 006804957-01 P= 0.554175 Days $T_0=131.781145$ (BKJD)



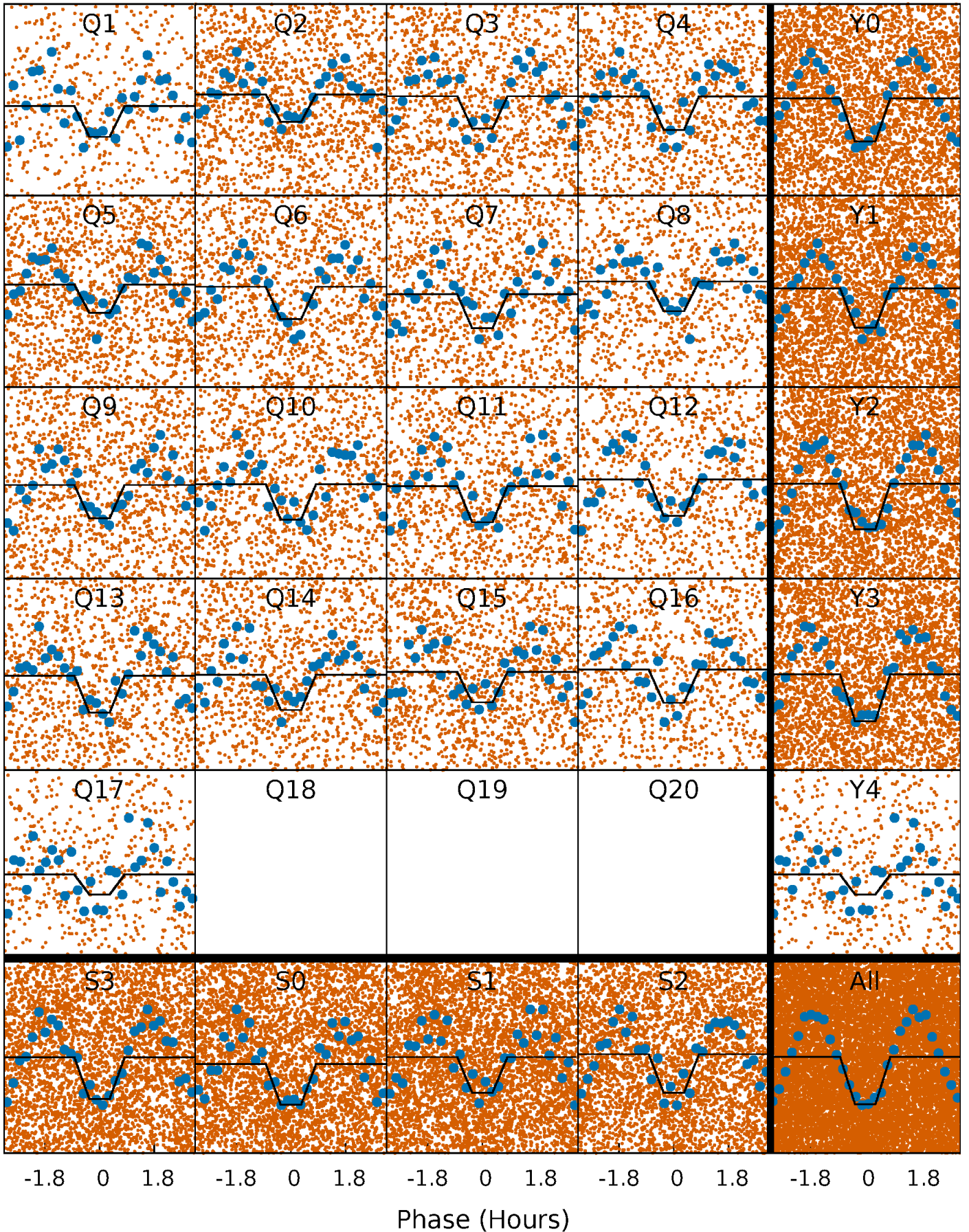
DV Quarter-Phased Transit Curves

TCE 006804957-01 P= 0.554175 Days $T_0=131.781145$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

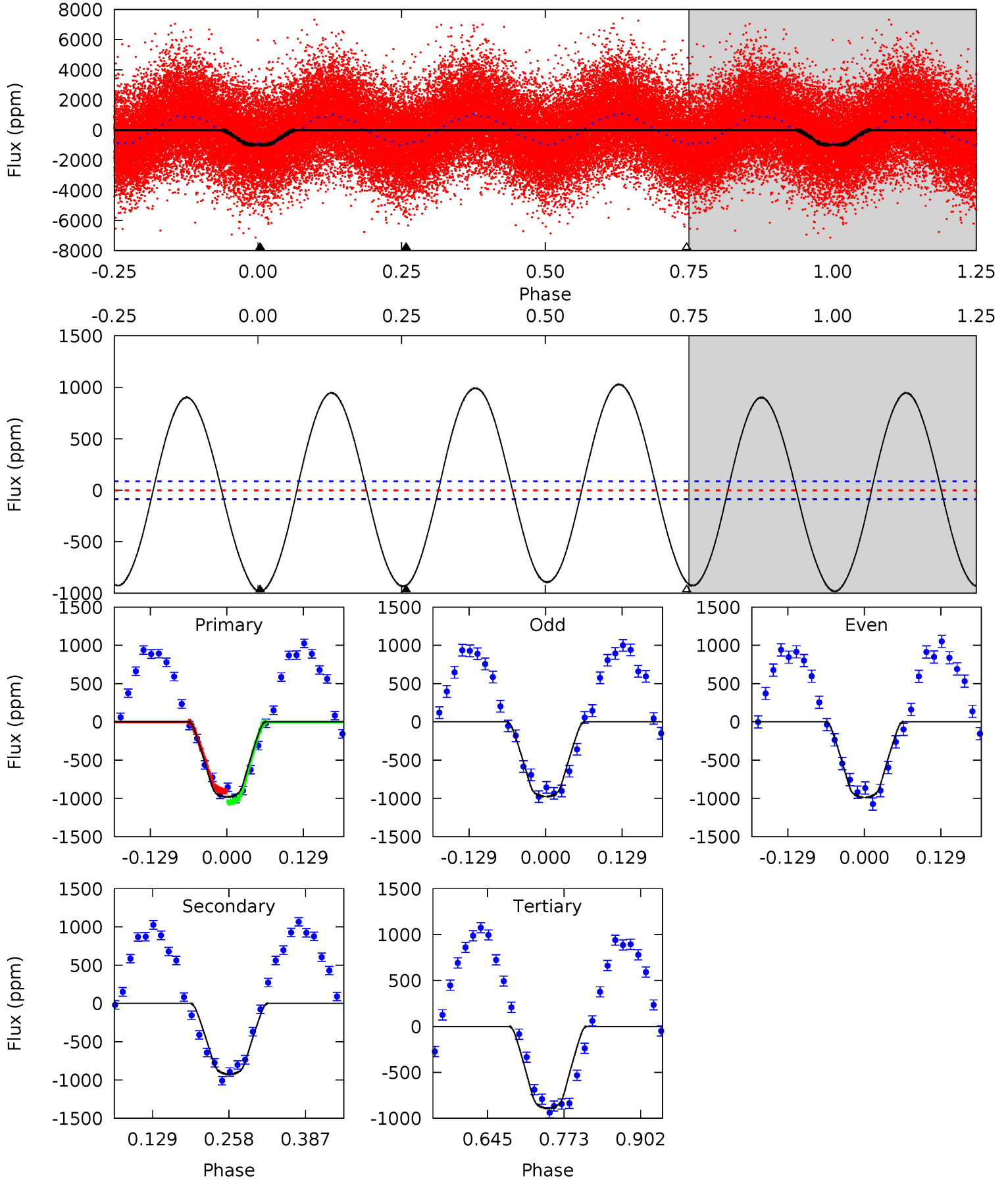
TCE 006804957-01 P= 0.554181 Days $T_0=131.774644$ (BKJD)



DV Model-Shift Uniqueness Test

006804957-01, P = 0.554175 Days, E = 131.226970 Days

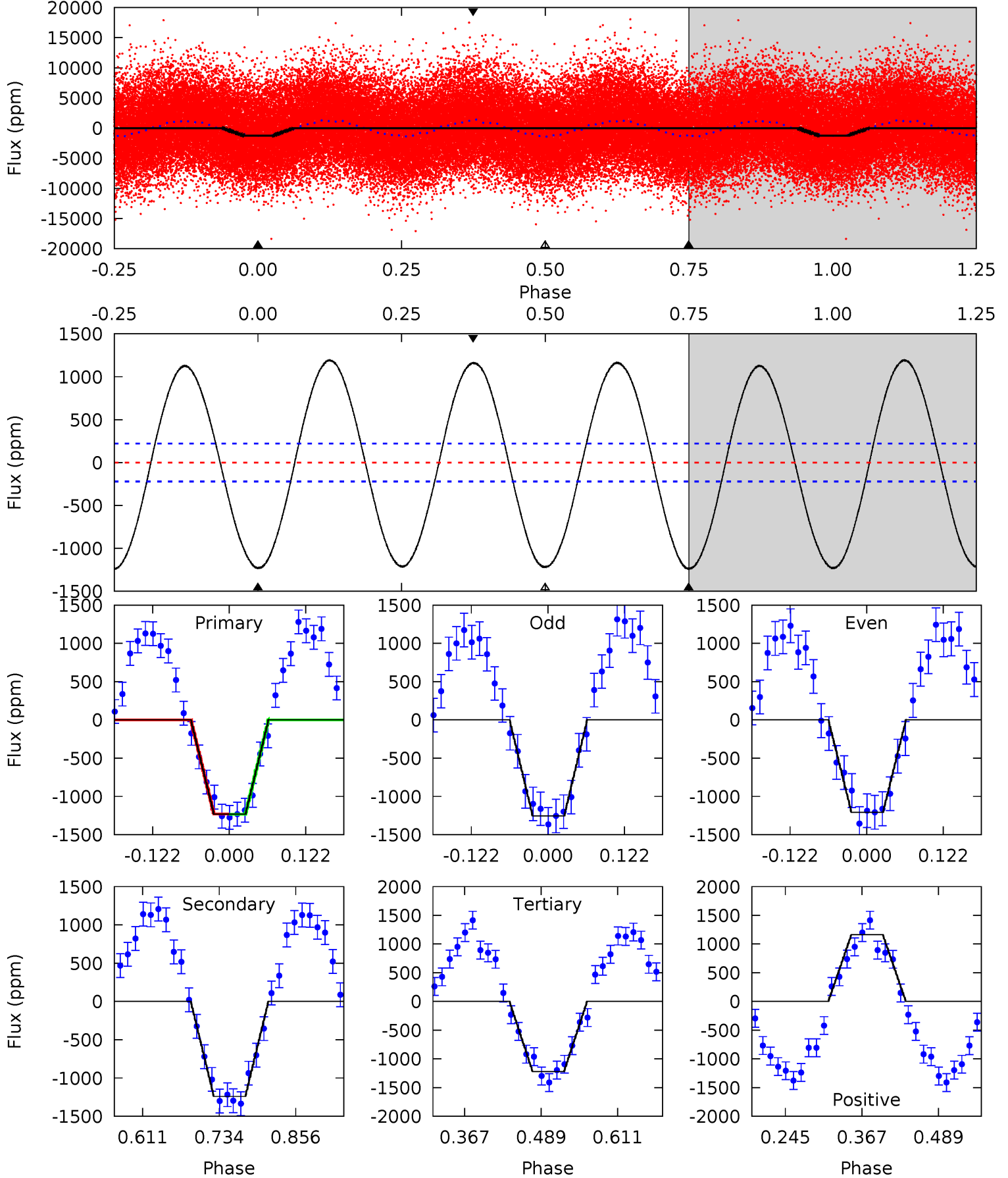
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
50.7	47.8	46.0	0	4.51	1.52	34.4	4.62	50.7	1.72	47.8	0.31	1.03	0.51	4.01



Alt Model-Shift Uniqueness Test

006804957-01, P = 0.554181 Days, E = 131.220463 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.2	25.4	24.9	23.7	4.52	1.55	17.4	0.26	1.42	0.44	1.61	0.49	0.97	0.49	0.06



Stellar Parameters For KIC 006804957

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6233^{+197}_{-241}	$4.227^{+0.185}_{-0.185}$	$-0.180^{+0.250}_{-0.300}$	$1.313^{+0.407}_{-0.305}$	$1.060^{+0.181}_{-0.131}$	$0.659^{+0.623}_{-0.316}$
	+3%/-4%	+4%/-4%	+139%/-167%	+31%/-23%	+17%/-12%	+94%/-48%
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 006804957-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-925 ± 19	$3.69^{+1.18}_{-1.05}$	3801^{+296}_{-256}	6681^{+1428}_{-778}	$6.899^{+6.308}_{-2.876}$
Alt.	-1241 ± 49	$5.08^{+1.34}_{-1.17}$	3771^{+331}_{-274}	6079^{+811}_{-541}	$4.787^{+3.236}_{-1.760}$

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 $A_{obs} \gg 1.0$

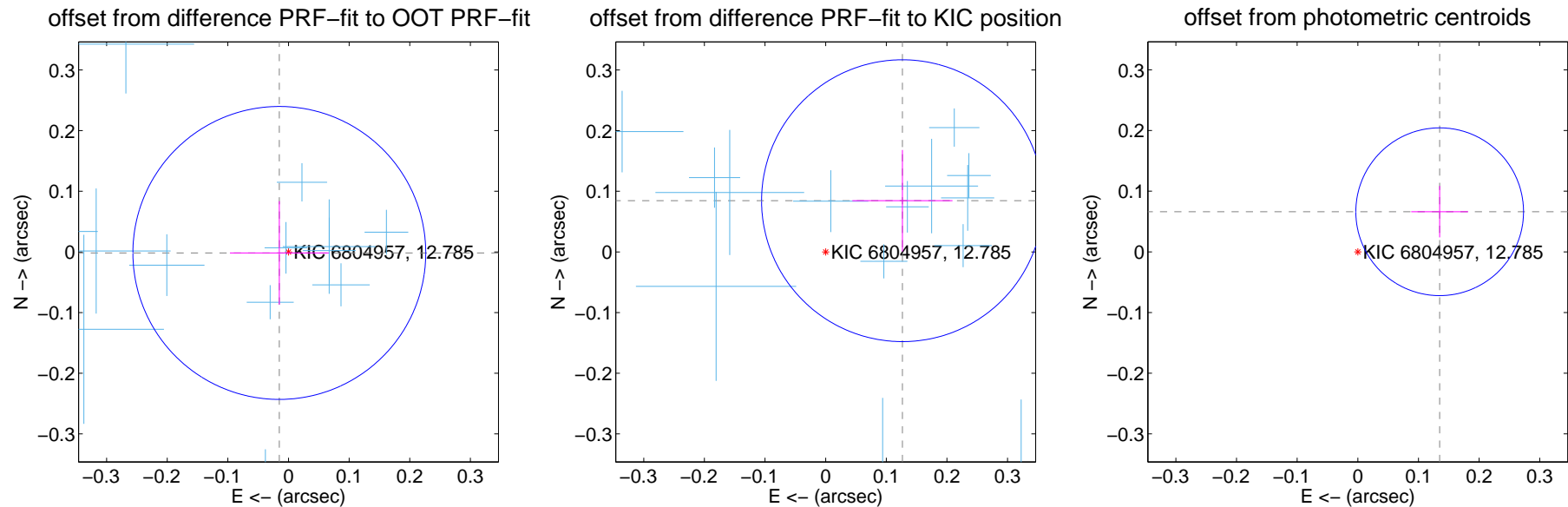
DV Centroid Data

Supplemental centroid analysis for 006804957-01. Kepler magnitude: 12.79. Transit SNR 20.52

There are 15 quarters with good PRF difference image offsets

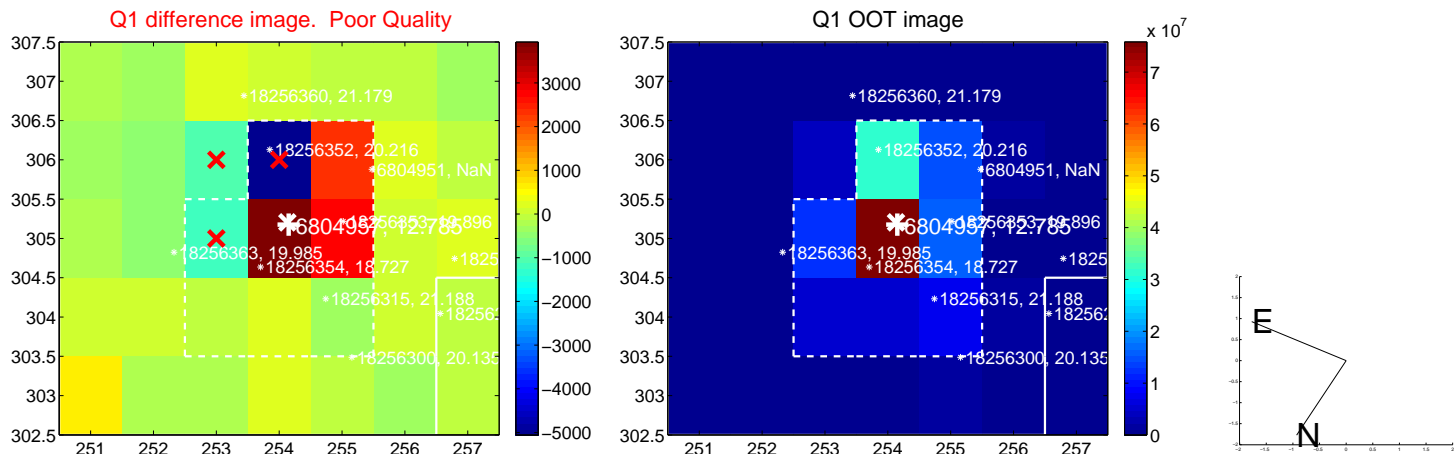
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.015 ± 0.080	0.19	0.015 ± 0.082	-0.002 ± 0.085
PRF-fit source offset from KIC position	0.152 ± 0.077	1.97	-0.127 ± 0.083	0.084 ± 0.084
photometric centroid source offset	0.15 ± 0.05	3.26	-0.13 ± 0.05	0.07 ± 0.04

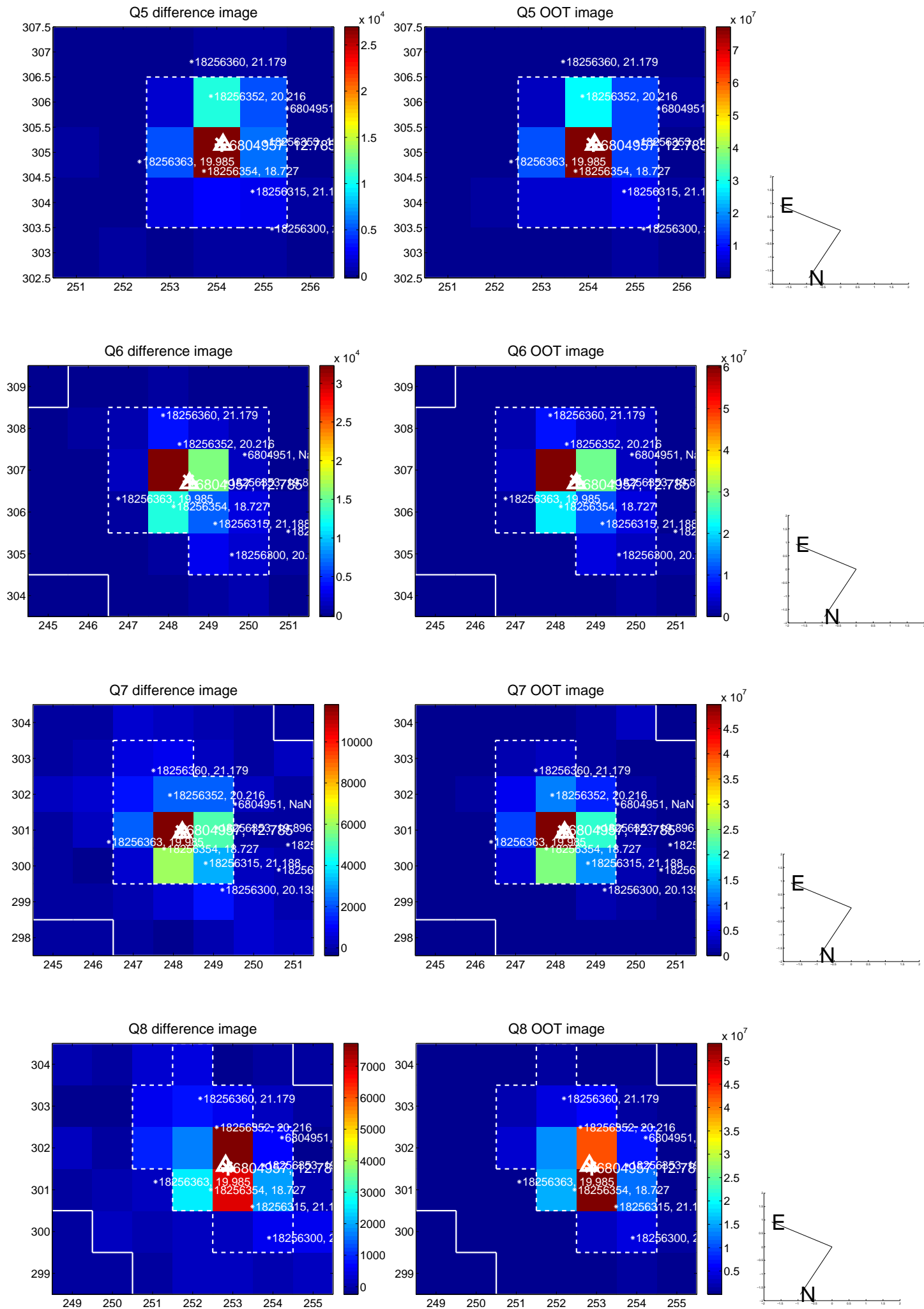


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

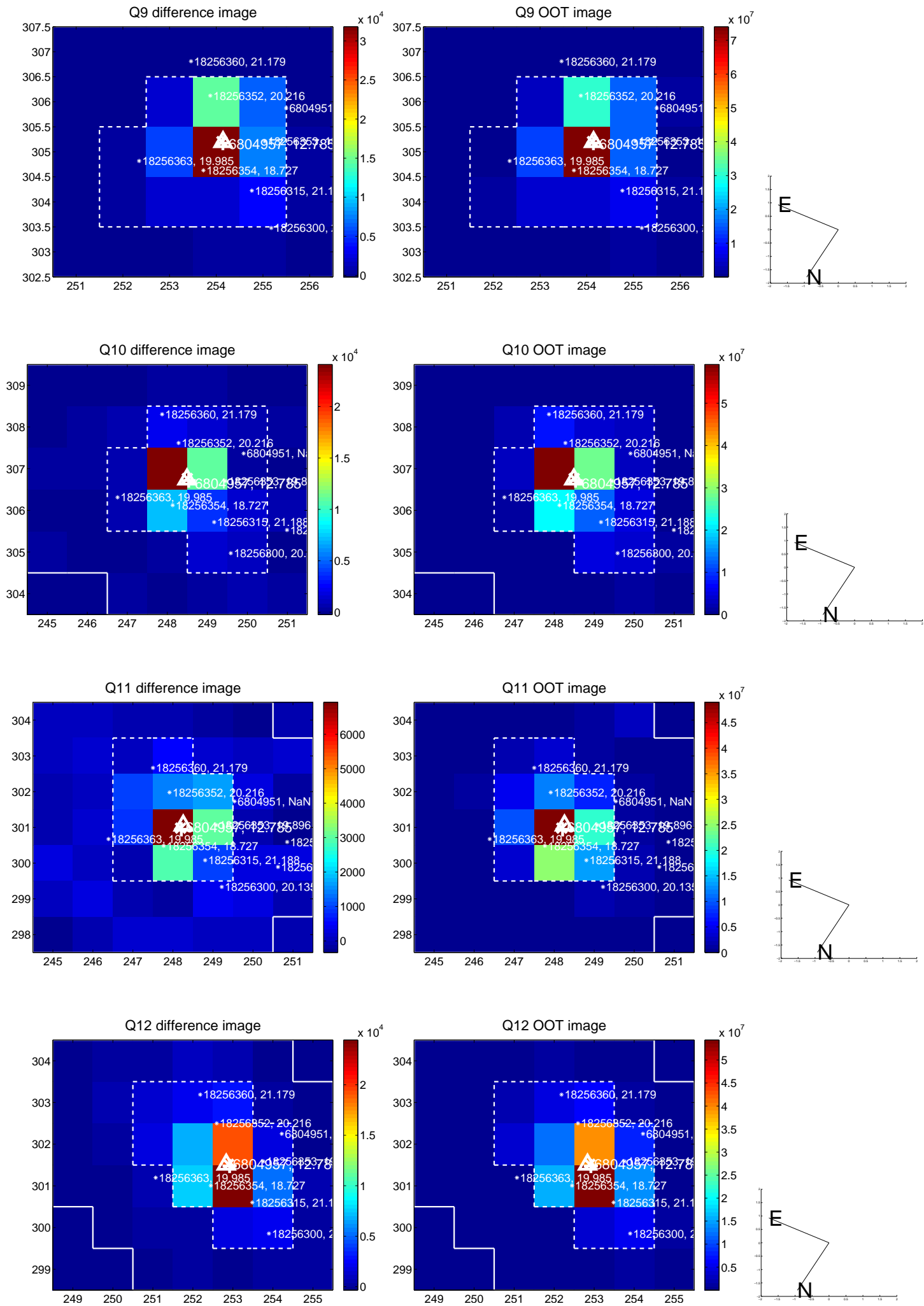
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



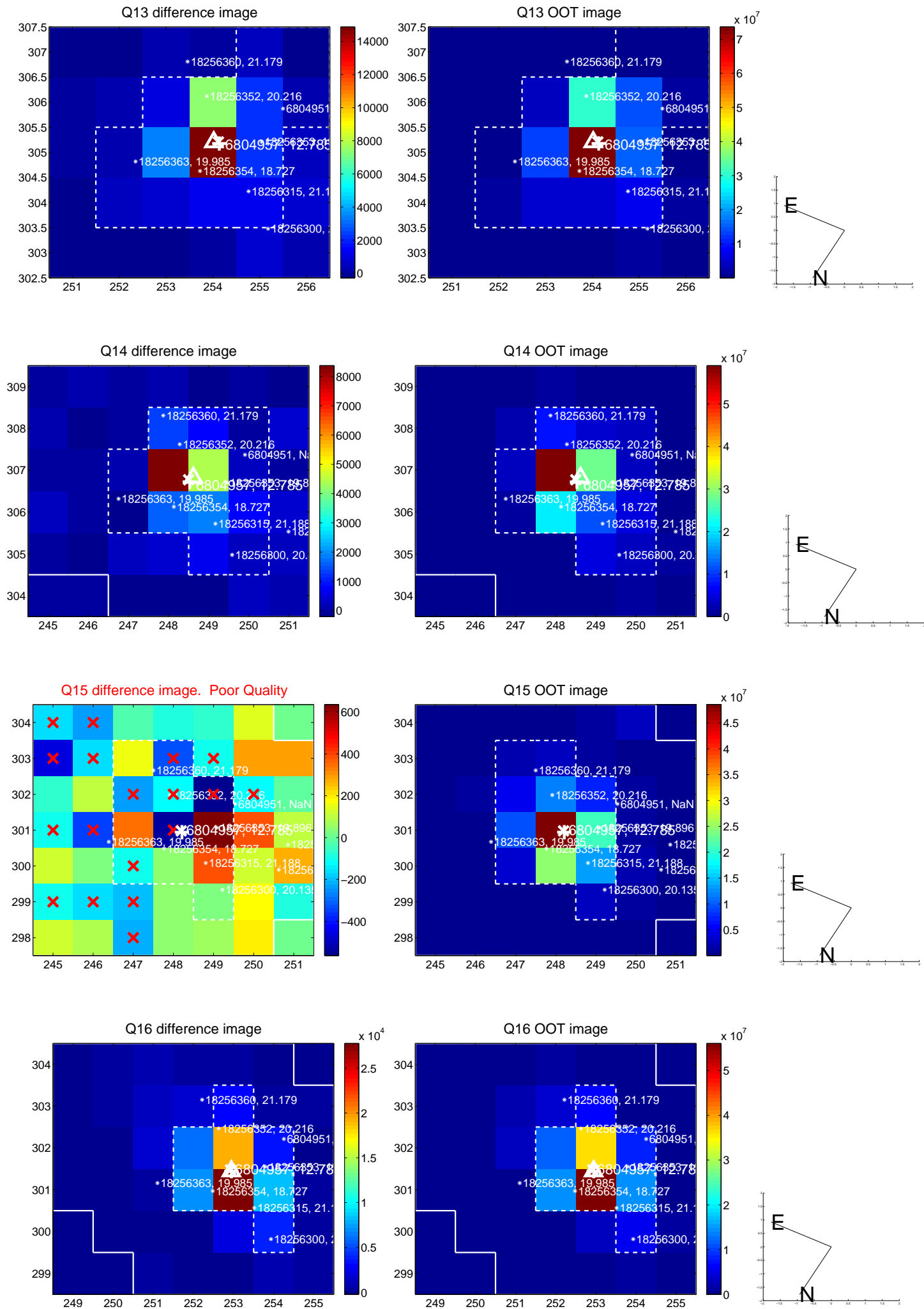
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



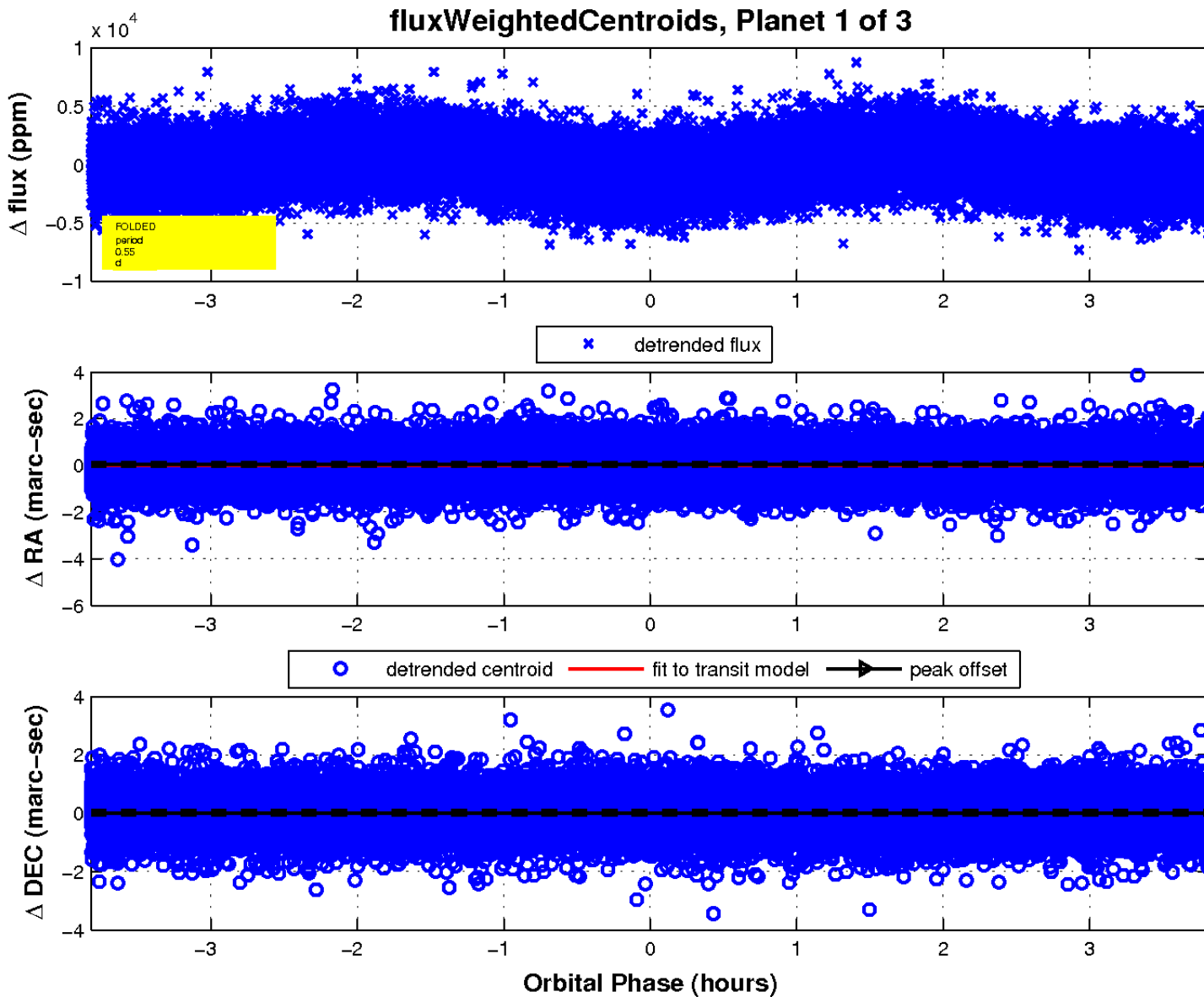
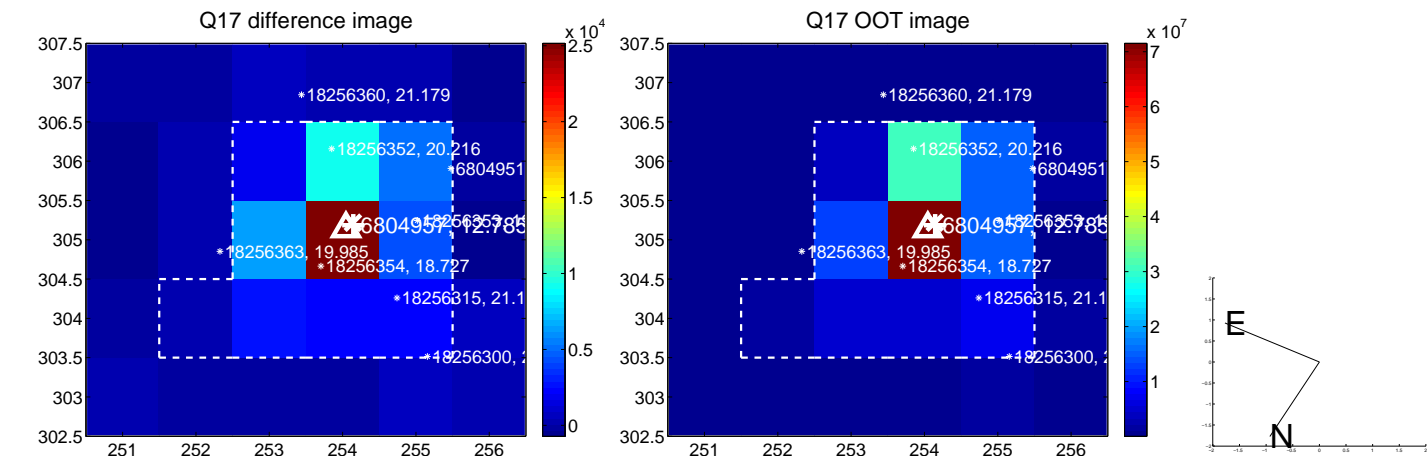
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

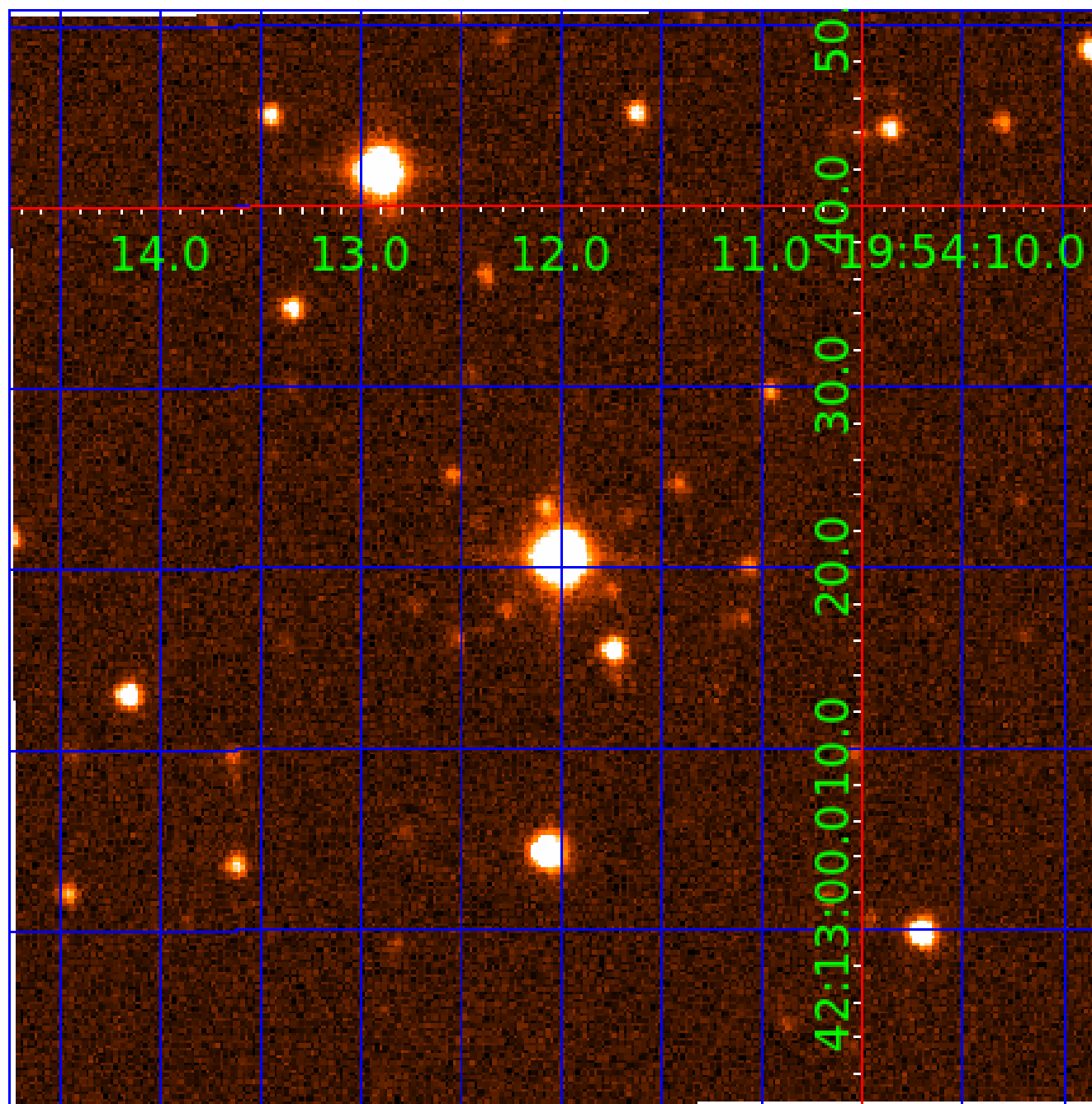


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006804957

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})
006804957-01	OBS	No	0.554175	131.781145	544.2	1.272	18.3	20.5	1.31	6233	3.62	12852.77
006804957-02	OBS	No	0.554193	131.632507	650.2	1.402	19.7	24.0	1.31	6233	3.95	12852.22
006804957-03	OBS	No	0.554181	132.051619	263.3	1.500	19.6	-1.0	1.31	6233	2.14	12852.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006804957-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
006804957-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006804957-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

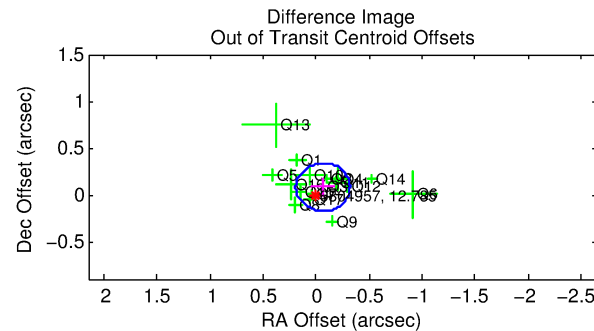
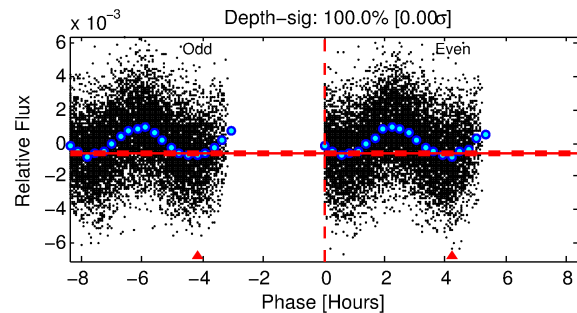
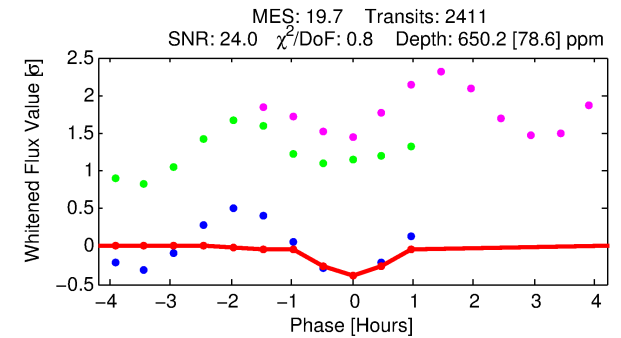
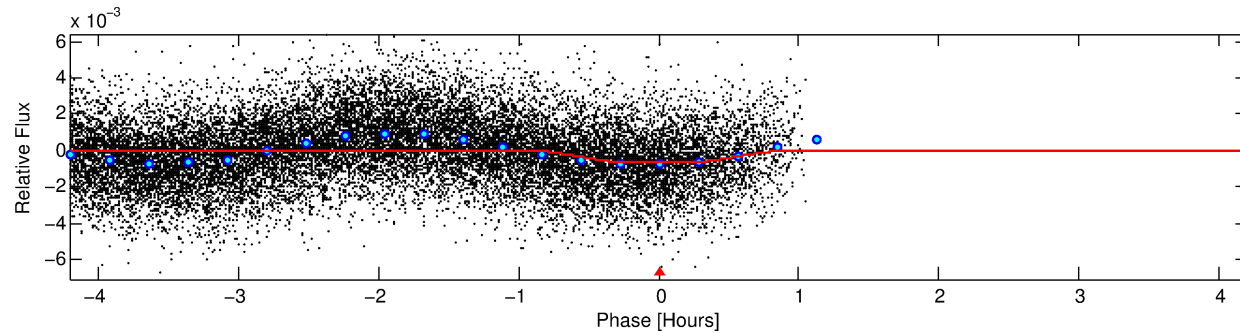
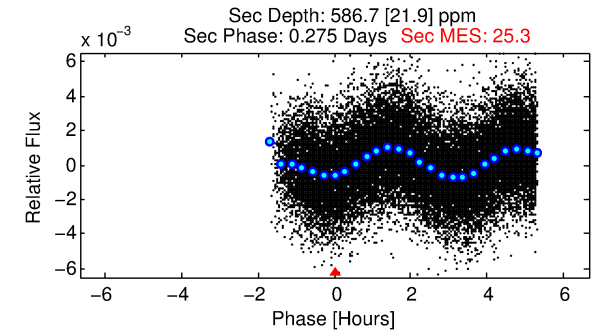
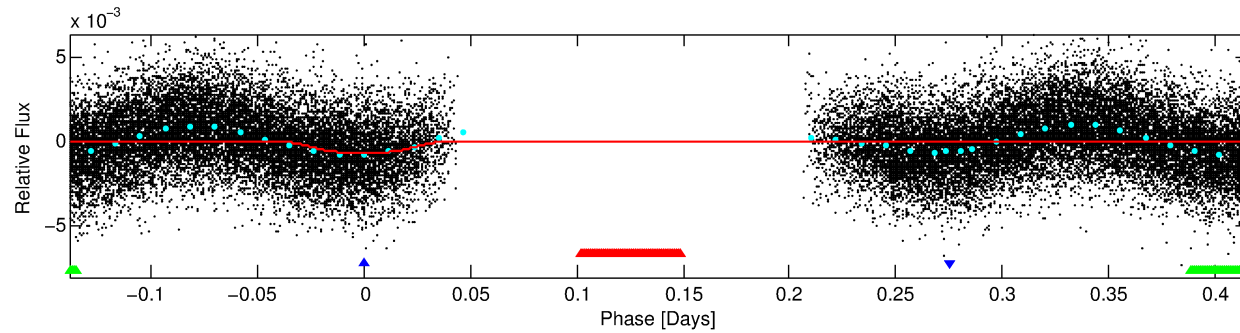
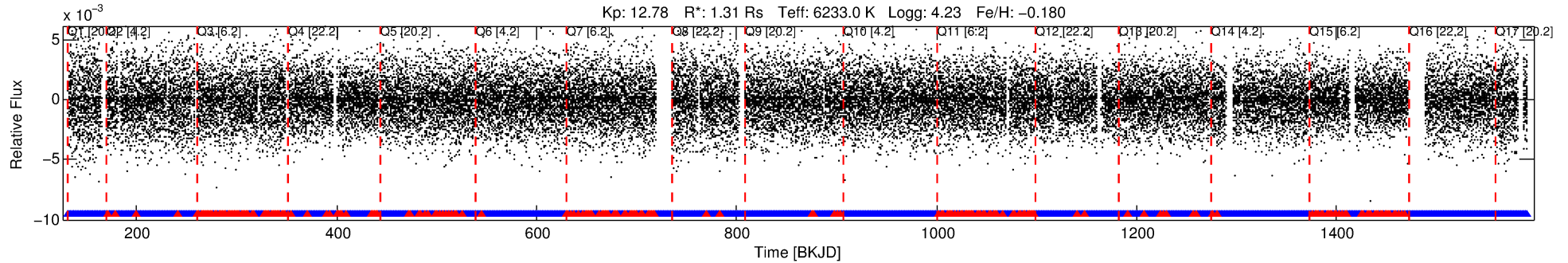
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006804957-02

No Significant Match Found

DV One-Page Summary

KIC: 6804957 Candidate: 2 of 3 Period: 0.554 d



DV Fit Results:

Period = 0.55419 [0.00001] d
Epoch = 131.6325 [0.0013] BKJD
Rp/R* = 0.0276 [0.0058]
a/R* = 1.77 [1.27]
b = 0.90 [0.23]
Seff = 12852.22 [4932.18]
Teq = 2715 [260] K
Rp = 3.95 [1.48] Re
a = 0.0135 [0.0034] AU
Ag = 3.75 [2.06] [1.34σ]
Teffp = 5843 [654] K [4.44σ]

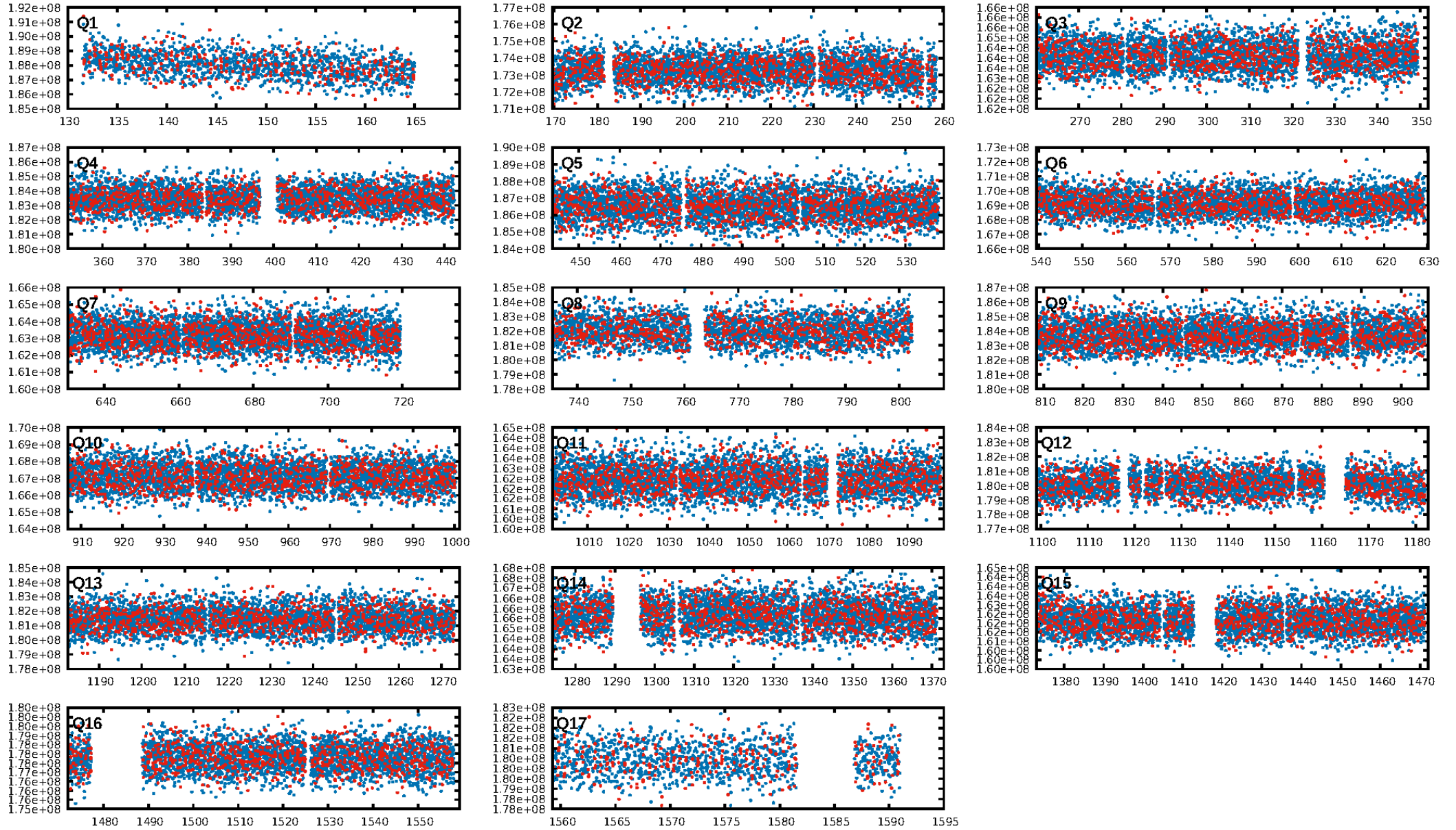
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.89 [2043/2303]
GhostDiagnostic-chr: -0.8554
Centroid-sig: 1.4%
Centroid-so: 0.180 arcsec [4.92σ]
OotOffset-rm: 0.104 arcsec [1.21σ]
KicOffset-rm: 0.261 arcsec [2.82σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.88 [15/17]
DiffImageOverlap-fno: 0.00 [0/17]

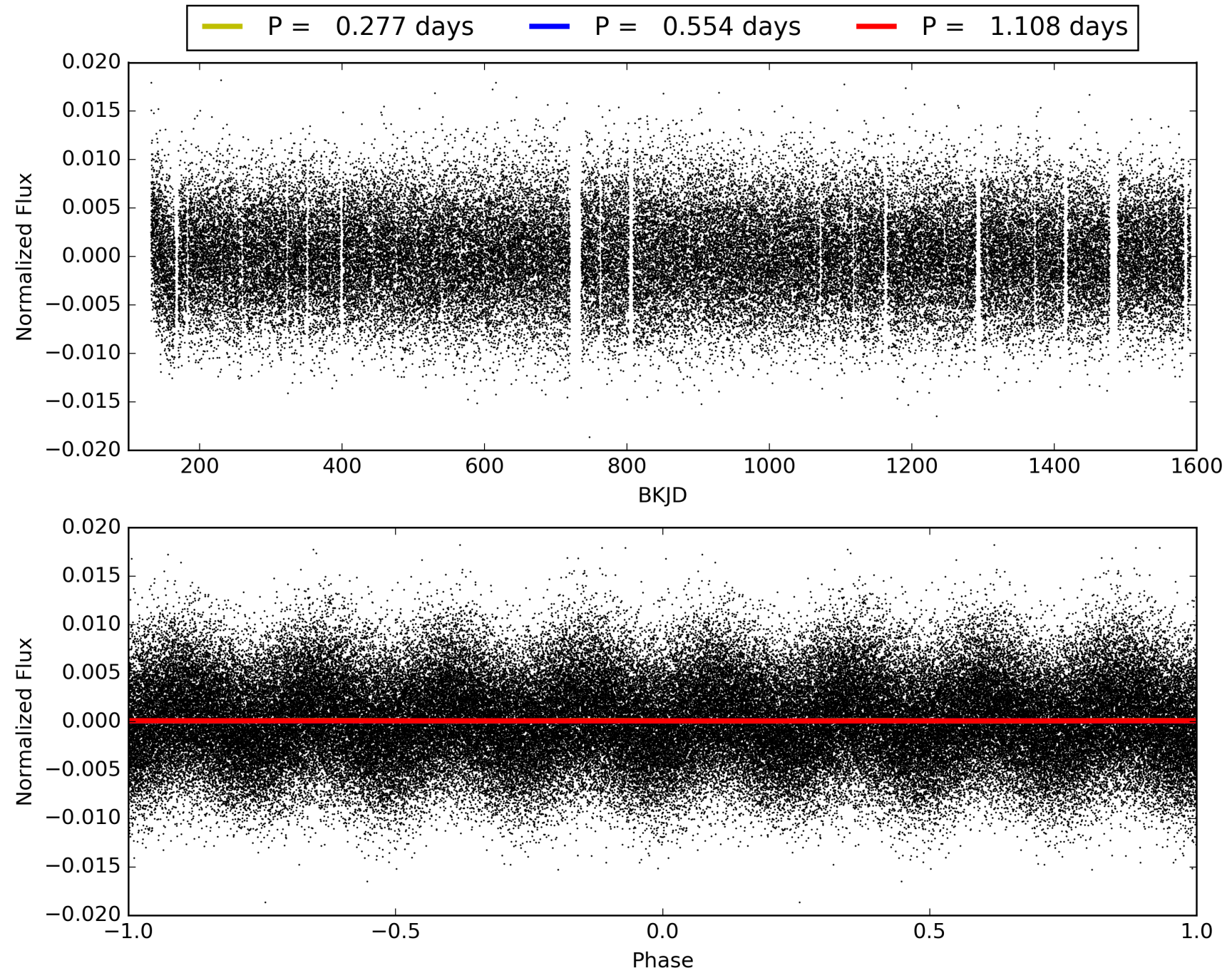
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:35:41 Z

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

TCE 006804957-02, PDC Light Curves

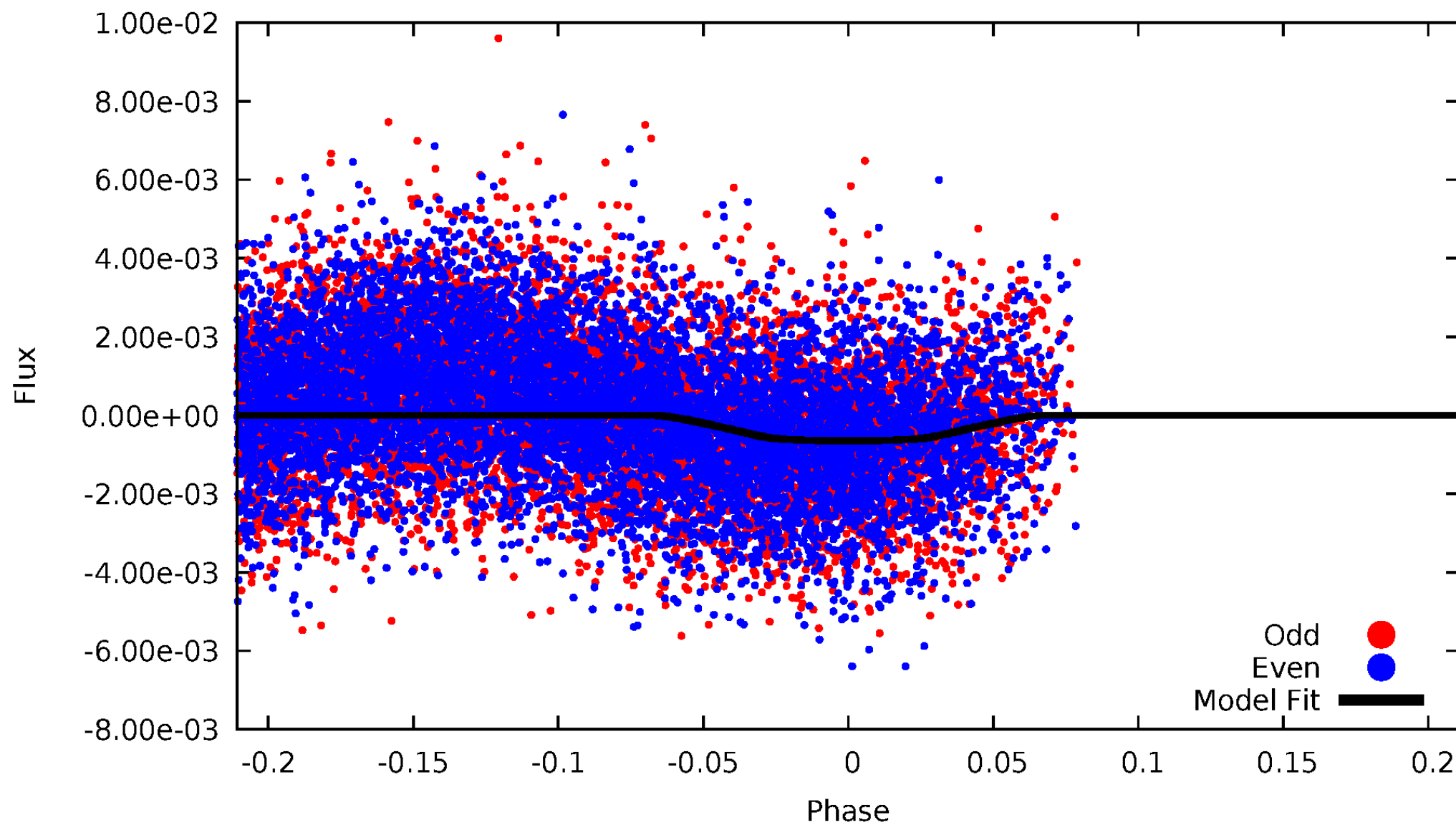


TCE 006804957-02



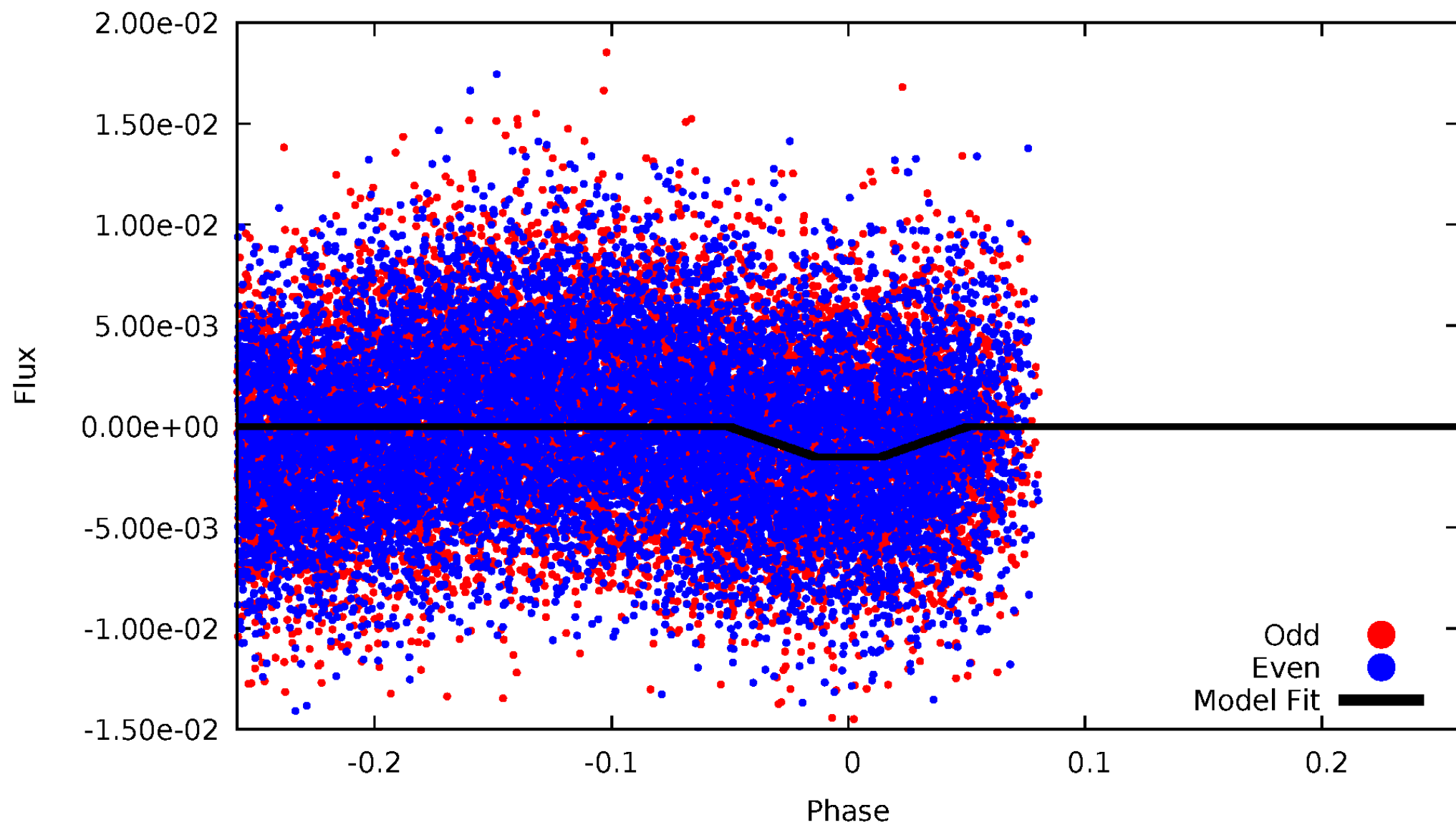
DV Odd/Even

TCE 006804957-02



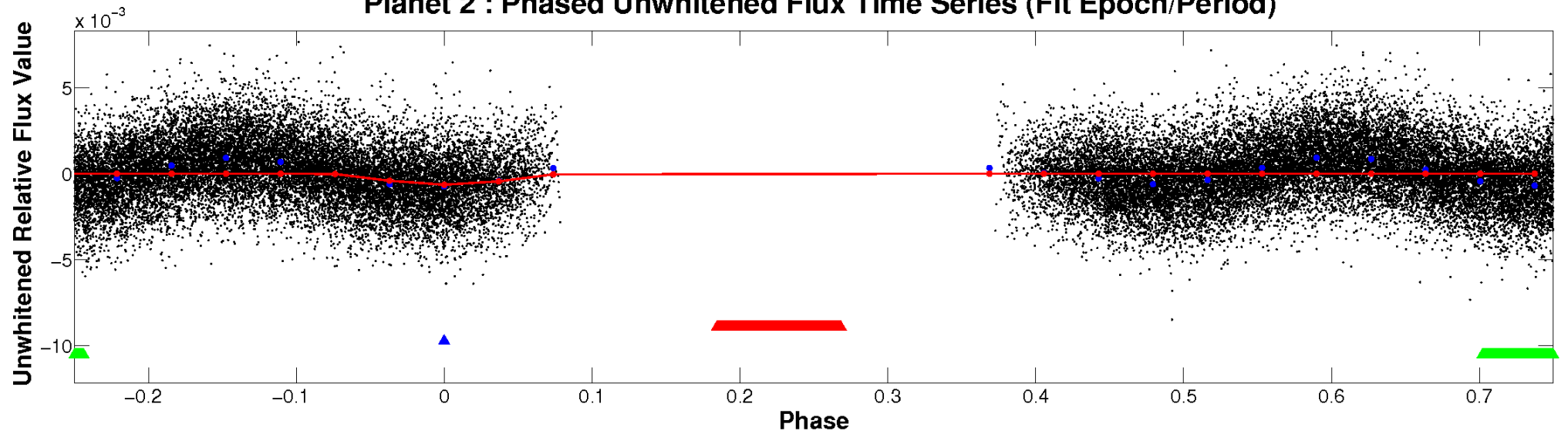
ALT Odd/Even

TCE 006804957-02

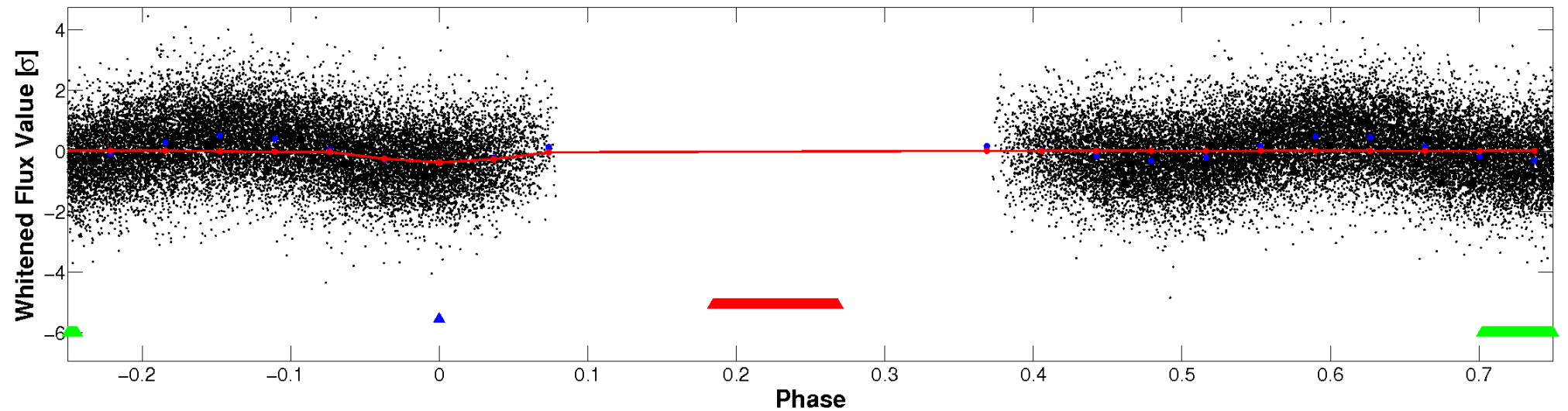


Non-Whitened Vs. Whitened Light Curve

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

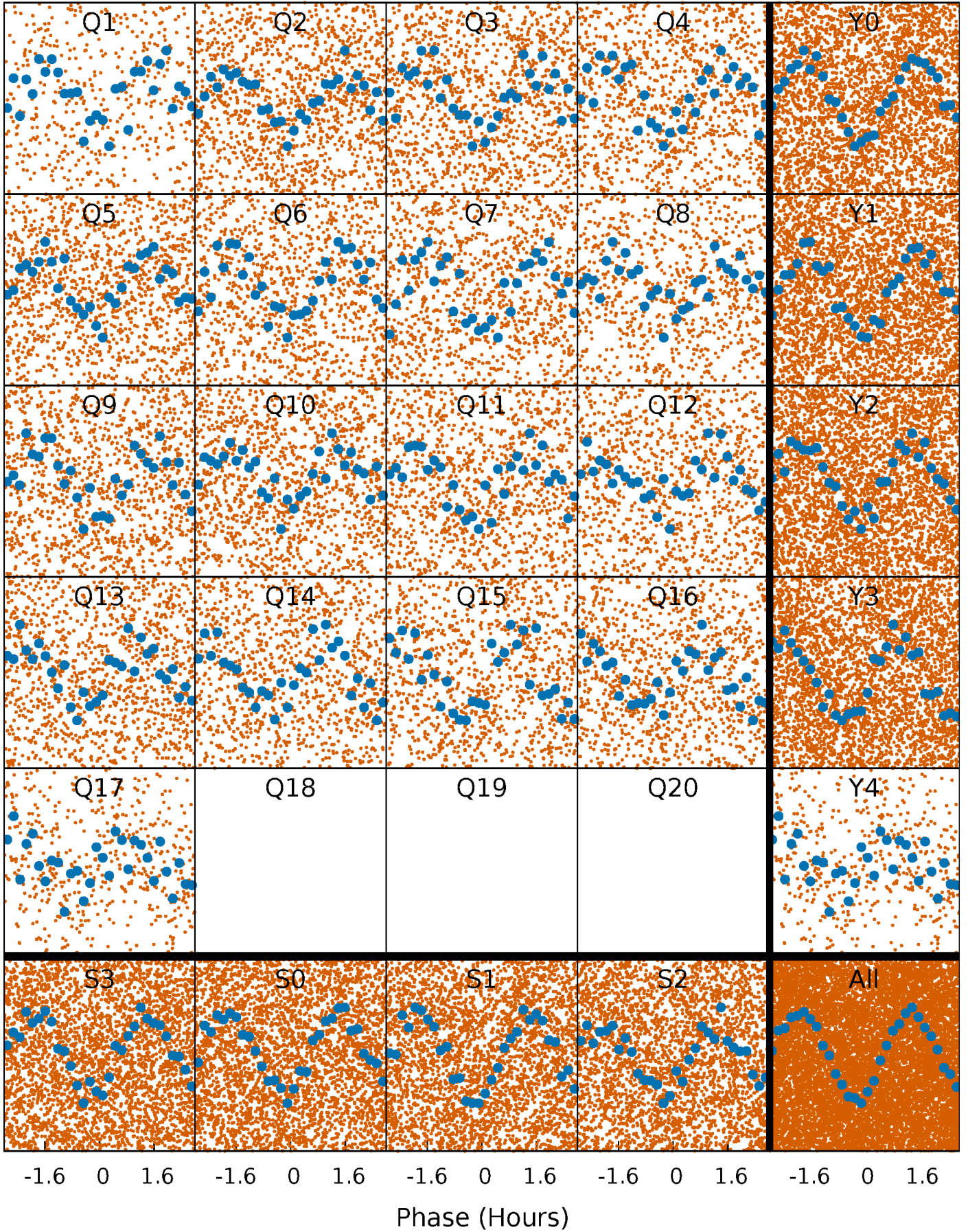


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



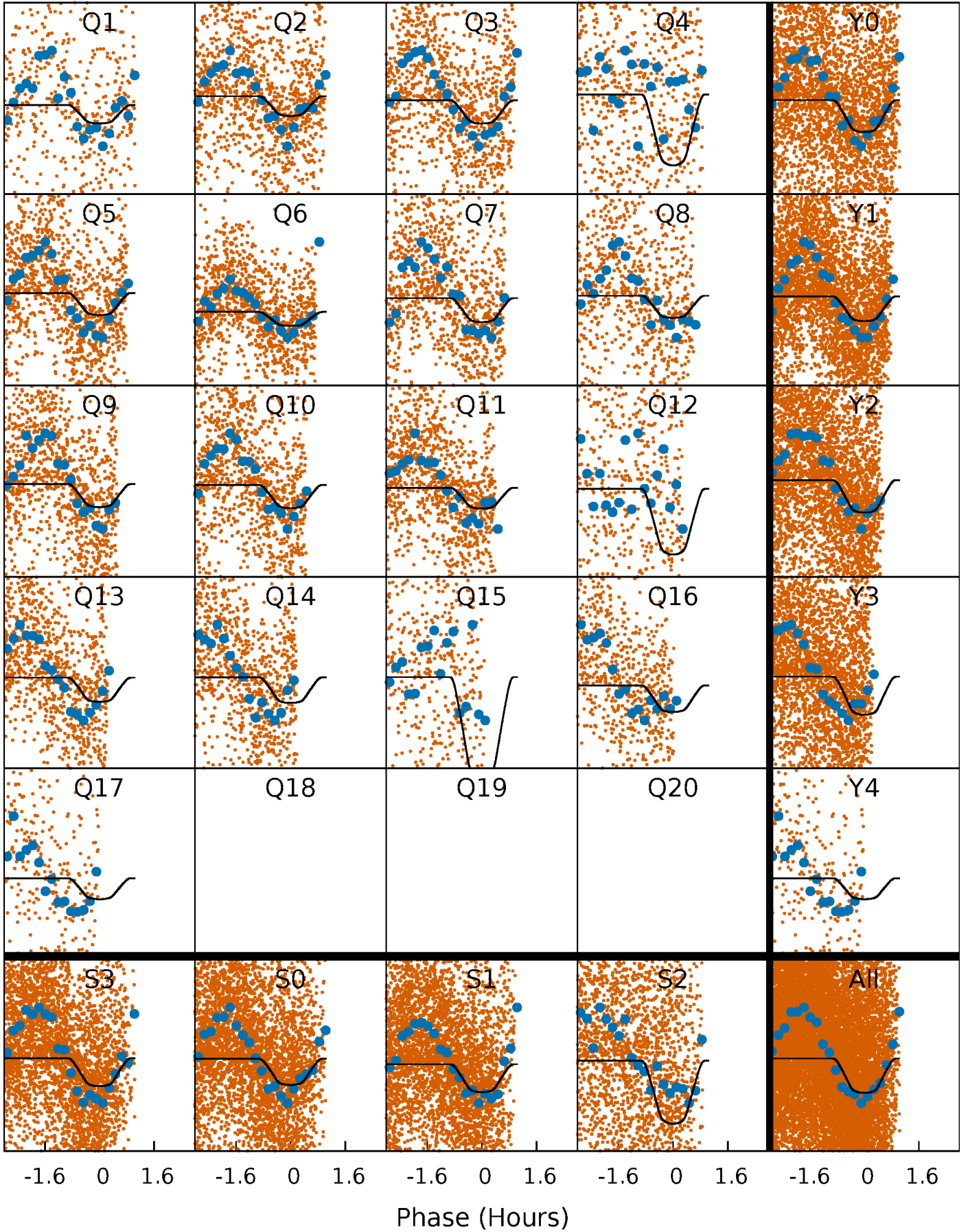
PDC Quarter-Phased Transit Curves

TCE 006804957-02 P= 0.554193 Days $T_0=131.632507$ (BKJD)



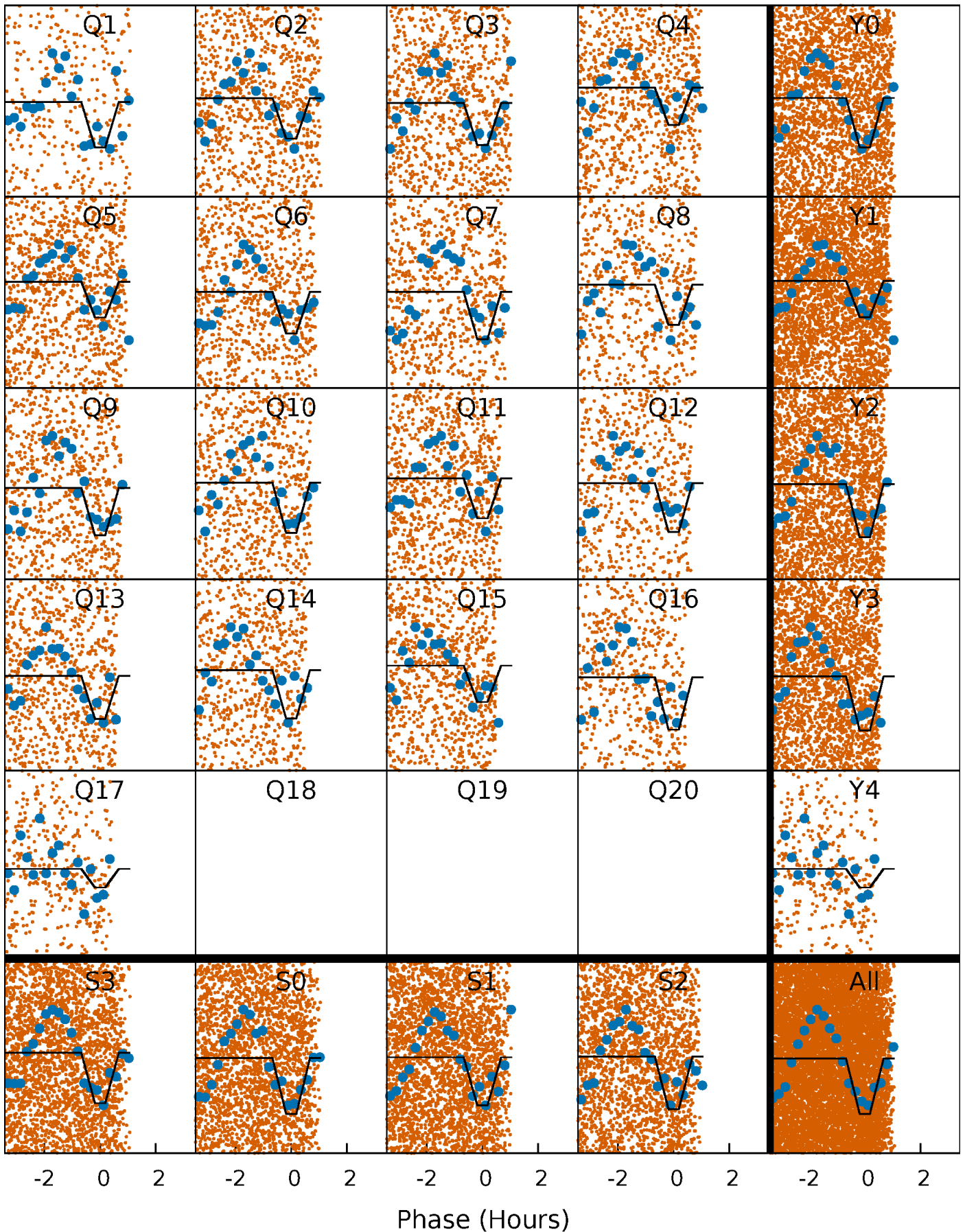
DV Quarter-Phased Transit Curves

TCE 006804957-02 P= 0.554193 Days $T_0=131.632507$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

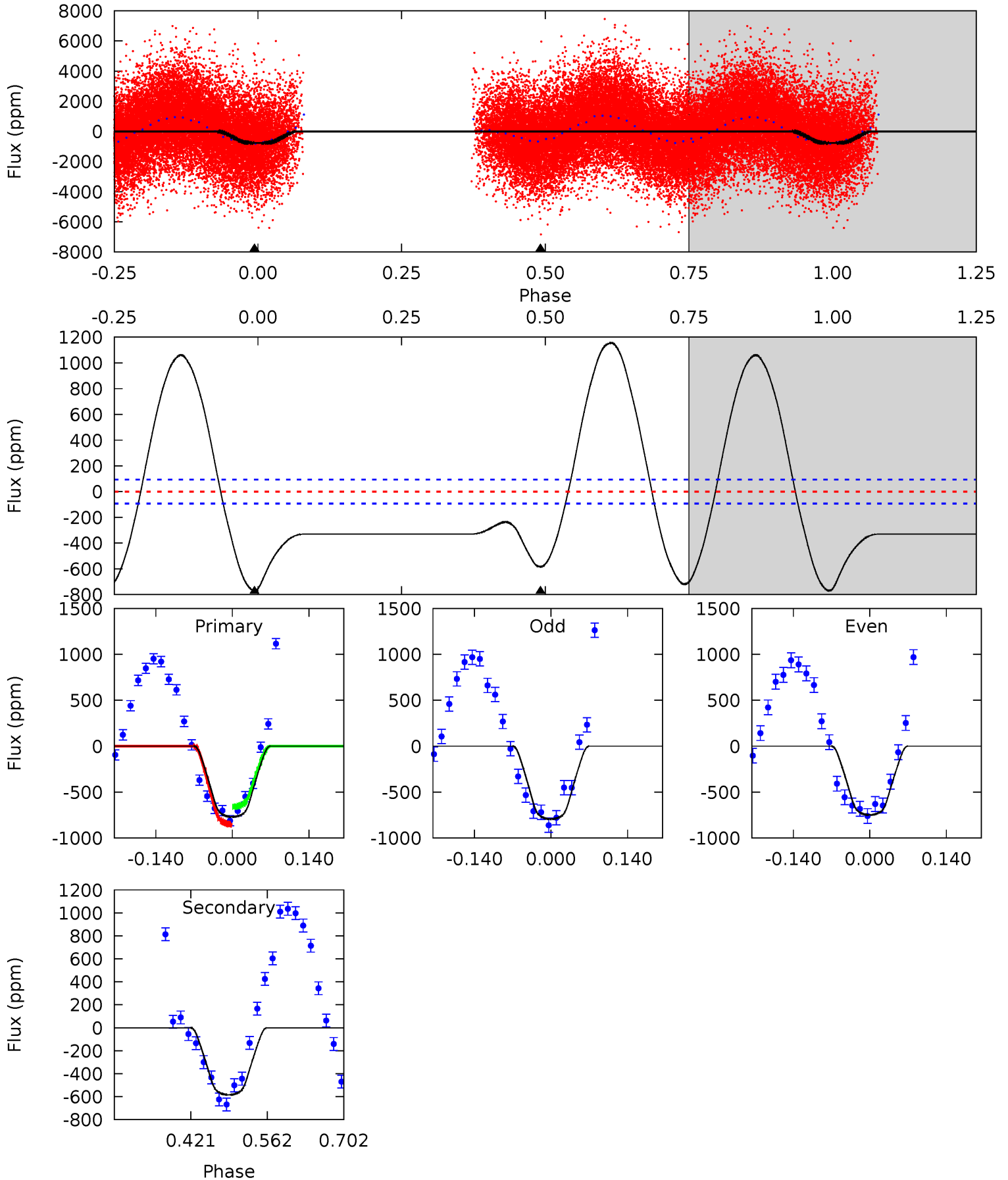
TCE 006804957-02 P= 0.554186 Days $T_0=131.631689$ (BKJD)



DV Model-Shift Uniqueness Test

006804957-02, P = 0.554193 Days, E = 131.078314 Days

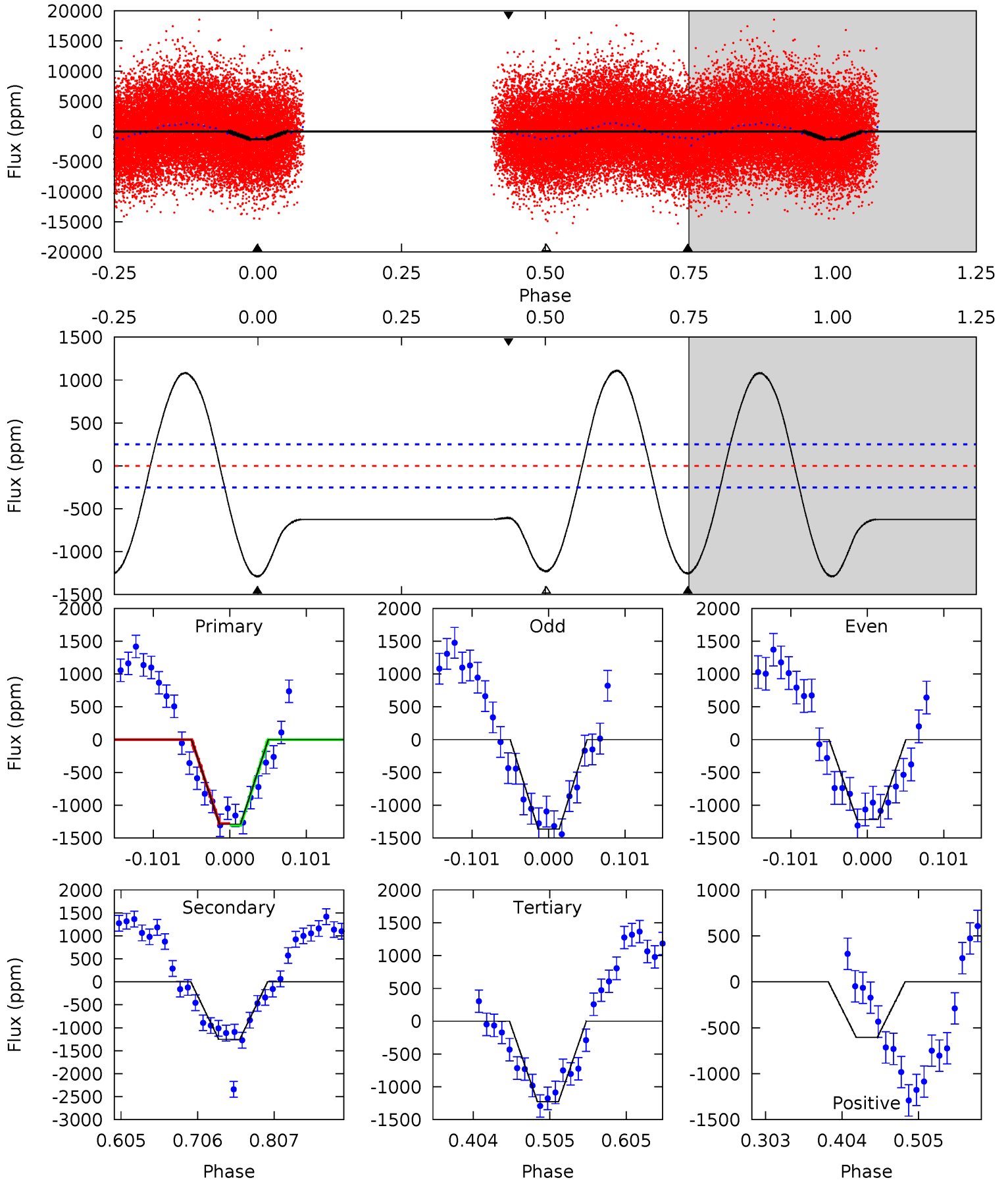
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
37.4	28.4	0	0	4.49	1.47	28.4	37.4	37.4	28.4	28.4	1.11	0.99	0.60	4.75



Alt Model-Shift Uniqueness Test

006804957-02, P = 0.554186 Days, E = 131.077503 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.4	22.7	22.3	-11.0	4.56	1.64	16.5	1.11	34.4	0.46	33.7	1.30	0.93	0.46	0.28



Stellar Parameters For KIC 006804957

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6233^{+197}_{-241}	$4.227^{+0.185}_{-0.185}$	$-0.180^{+0.250}_{-0.300}$	$1.313^{+0.407}_{-0.305}$	$1.060^{+0.181}_{-0.131}$	$0.659^{+0.623}_{-0.316}$
	+3%/-4%	+4%/-4%	+139%/-167%	+31%/-23%	+17%/-12%	+94%/-48%
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 006804957-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-584 ± 21	$3.97^{+1.16}_{-0.93}$	3781^{+288}_{-280}	5689^{+738}_{-581}	$3.700^{+2.650}_{-1.445}$
Alt.	-1253 ± 55	$5.65^{+1.22}_{-1.11}$	3790^{+310}_{-260}	5820^{+519}_{-456}	$3.968^{+1.960}_{-1.271}$

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

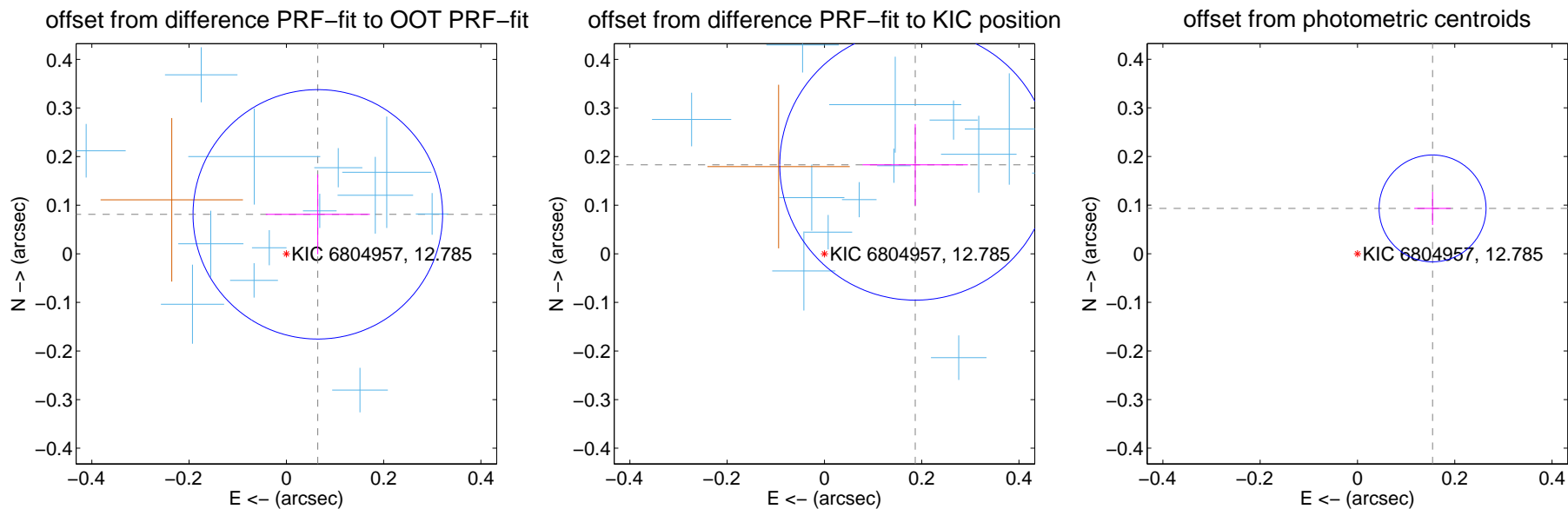
DV Centroid Data

Supplemental centroid analysis for 006804957-02. Kepler magnitude: 12.79. Transit SNR 23.97

There are 15 quarters with good PRF difference image offsets

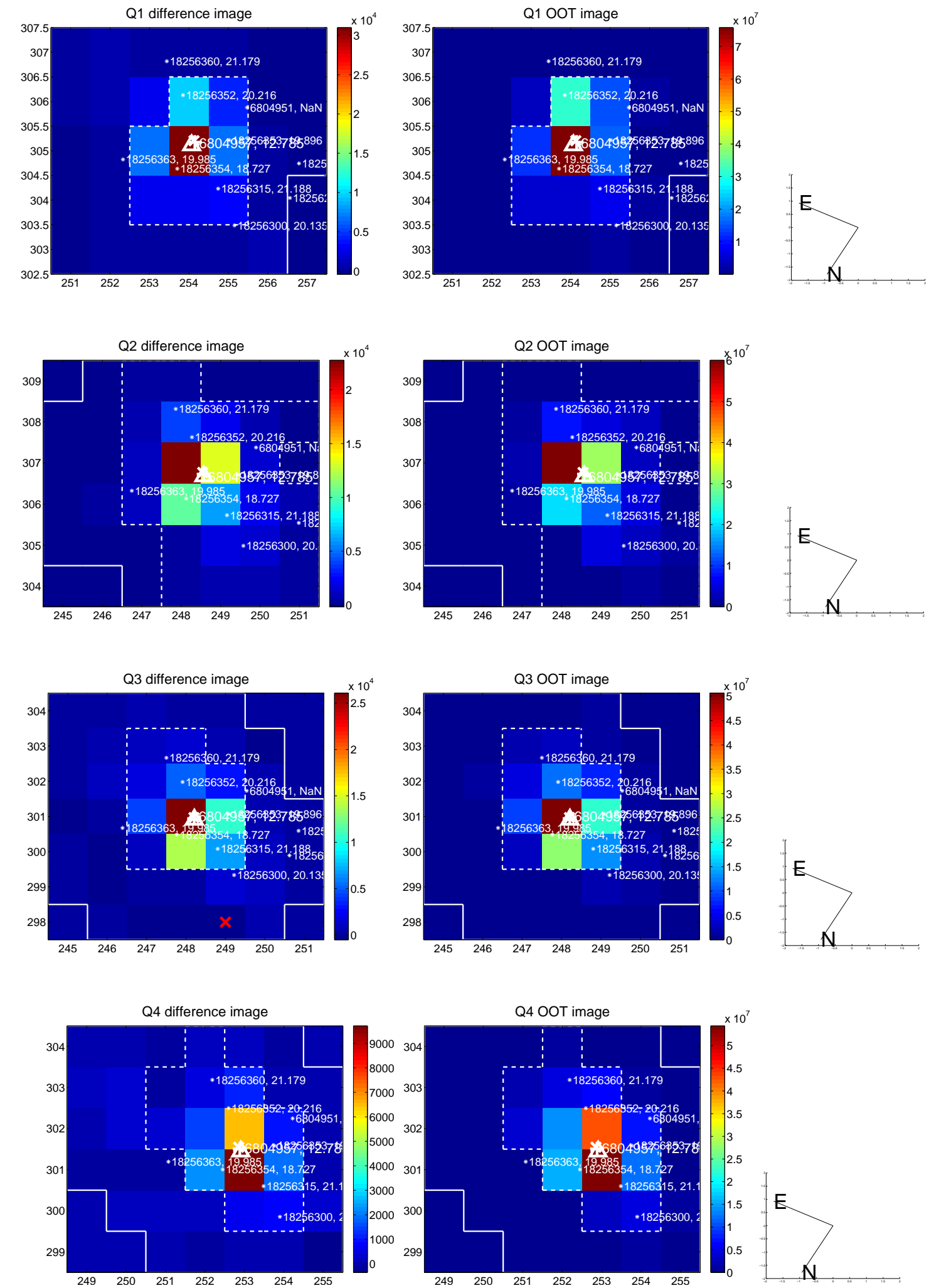
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.104 ± 0.086	1.21	-0.065 ± 0.107	0.081 ± 0.082
PRF-fit source offset from KIC position	0.261 ± 0.093	2.82	-0.187 ± 0.108	0.183 ± 0.084
photometric centroid source offset	0.18 ± 0.04	4.92	-0.15 ± 0.04	0.09 ± 0.03

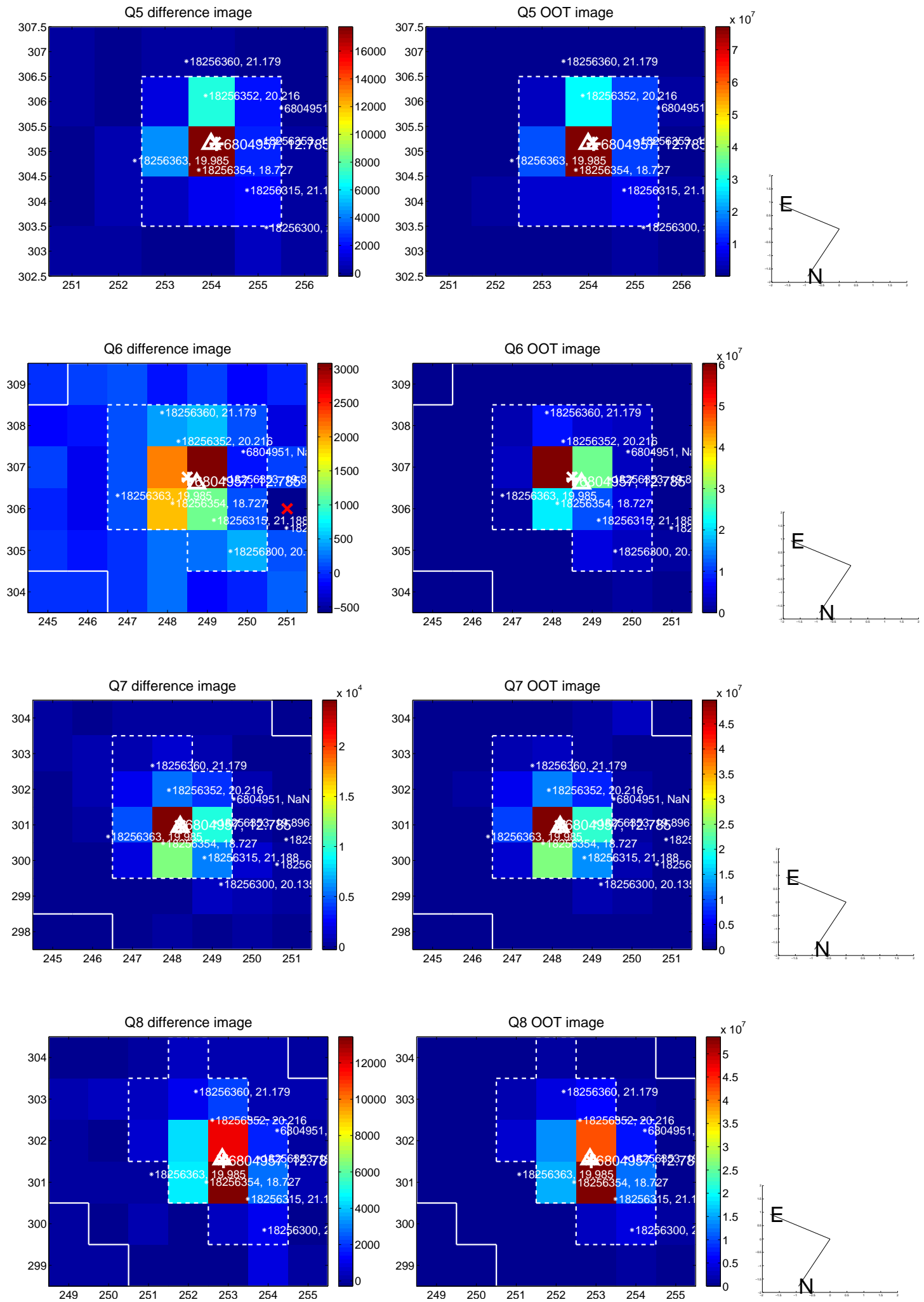


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

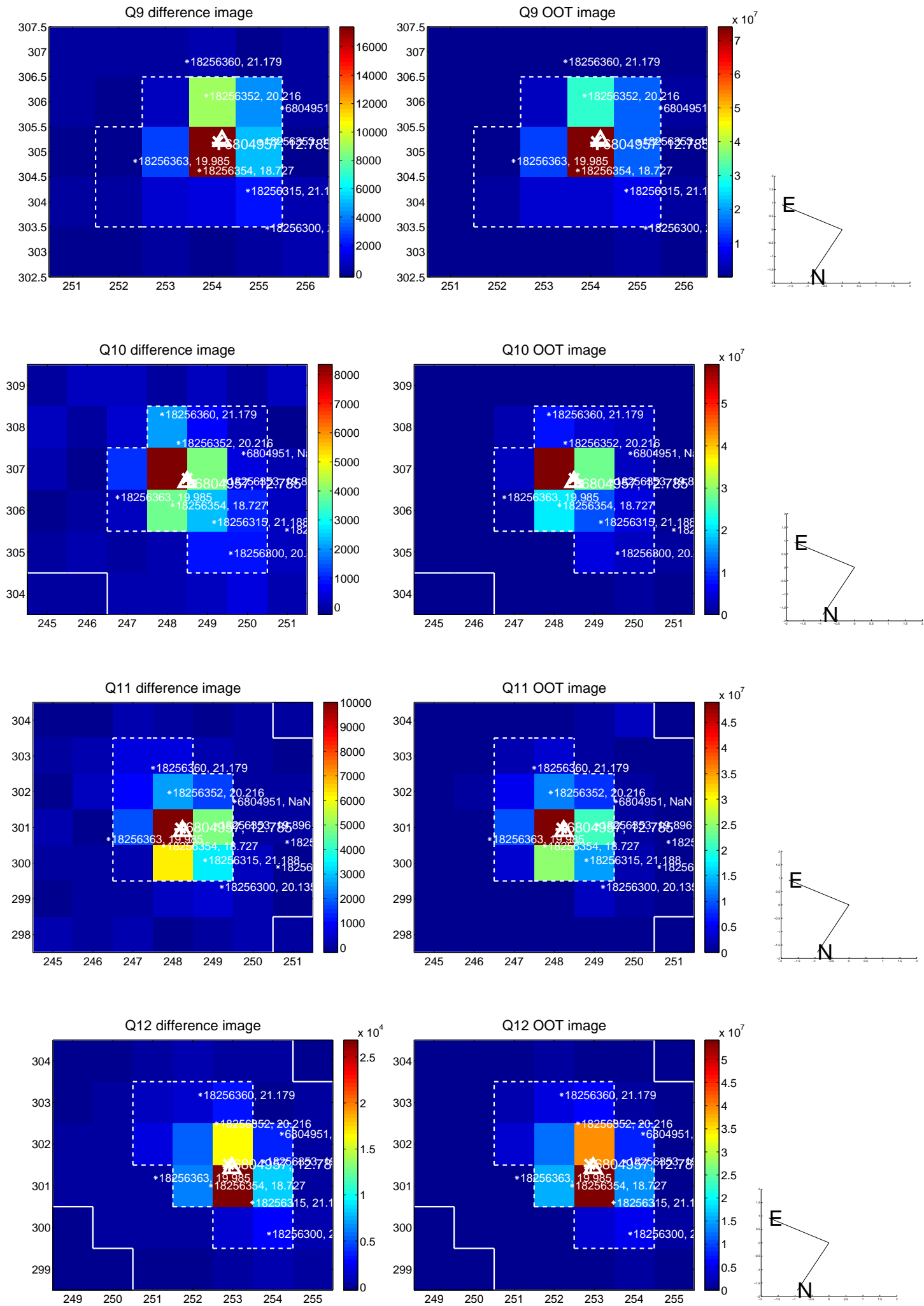
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



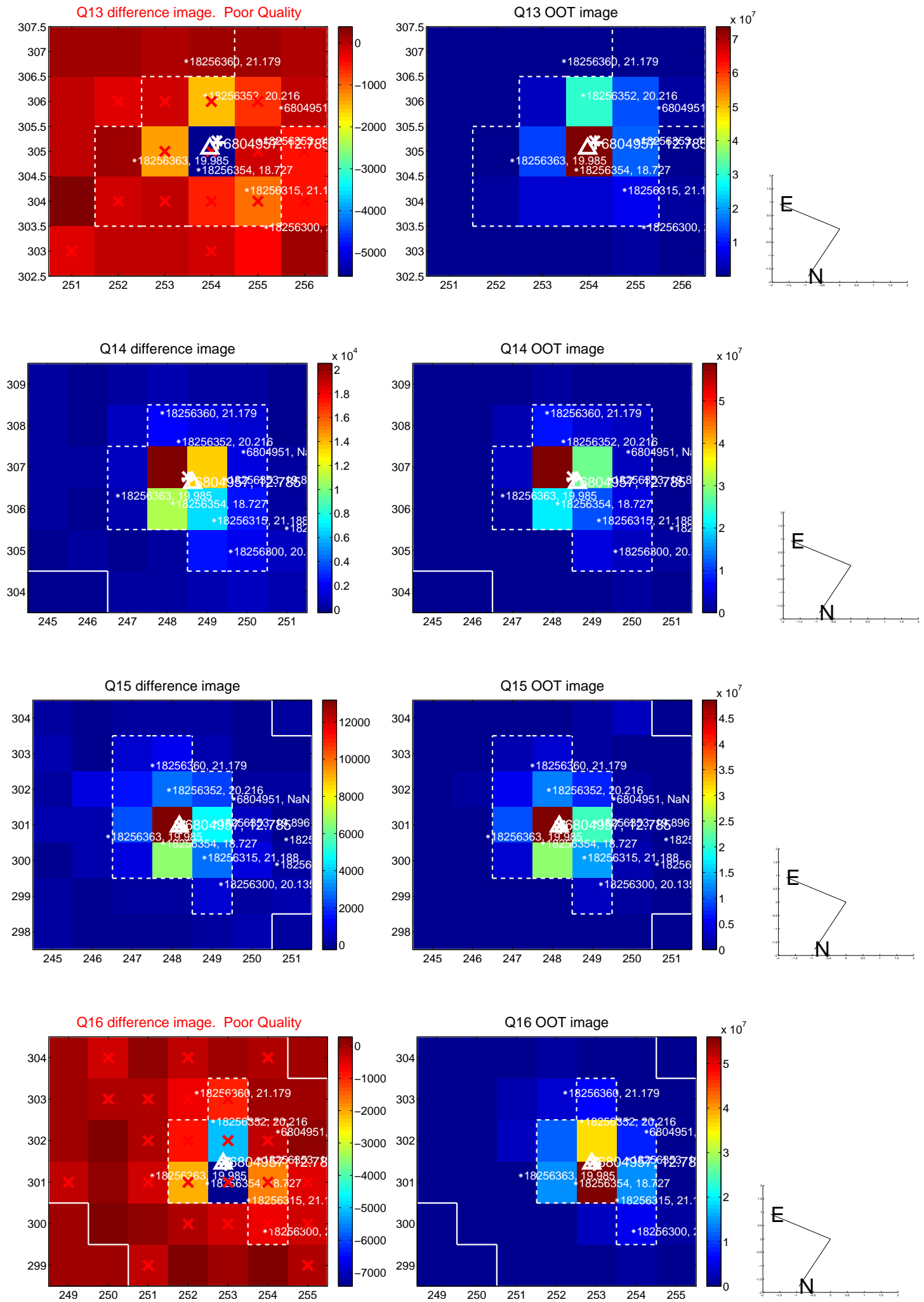
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



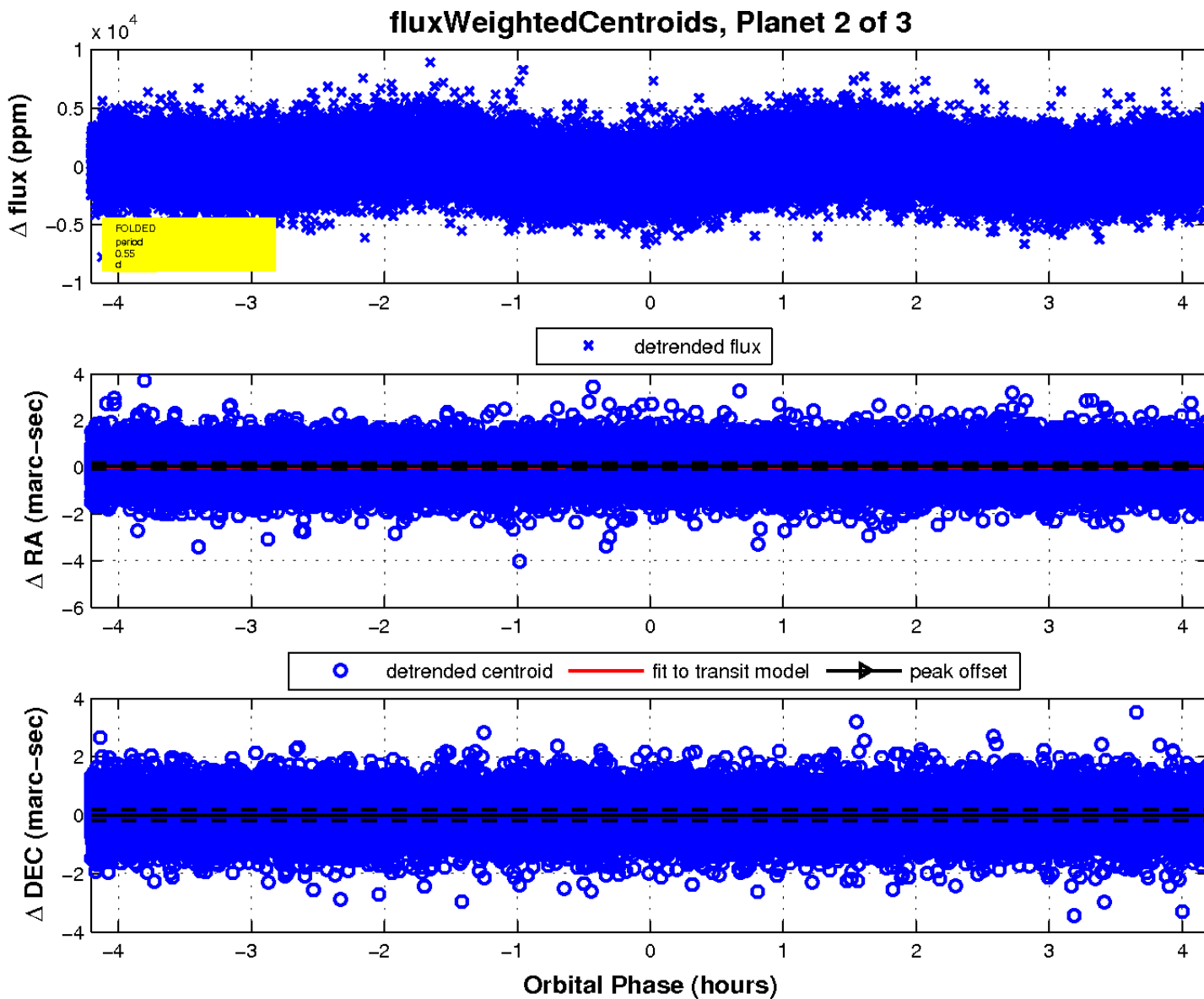
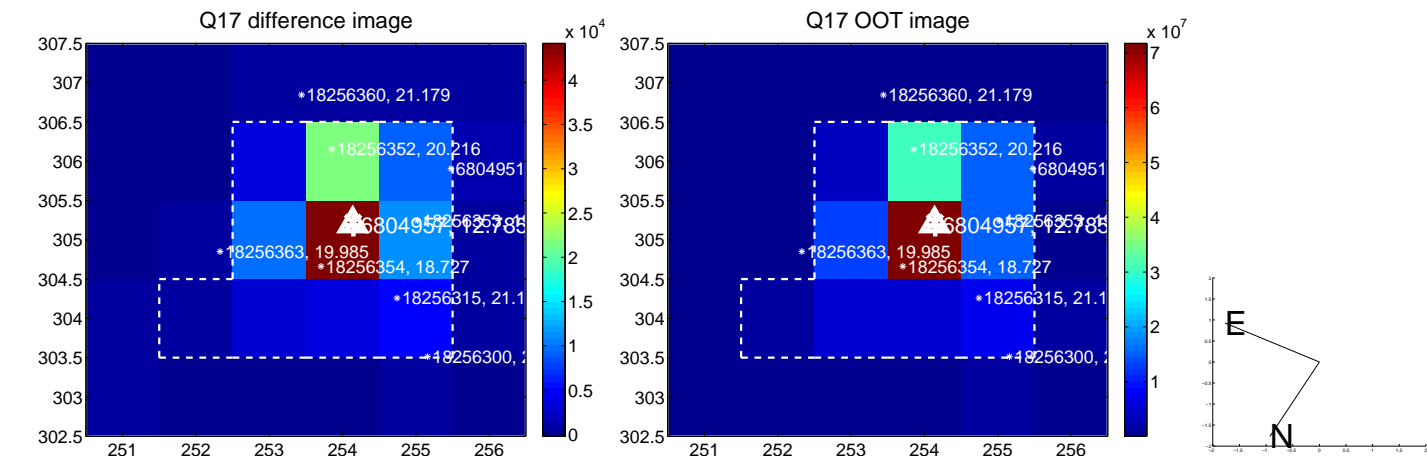
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

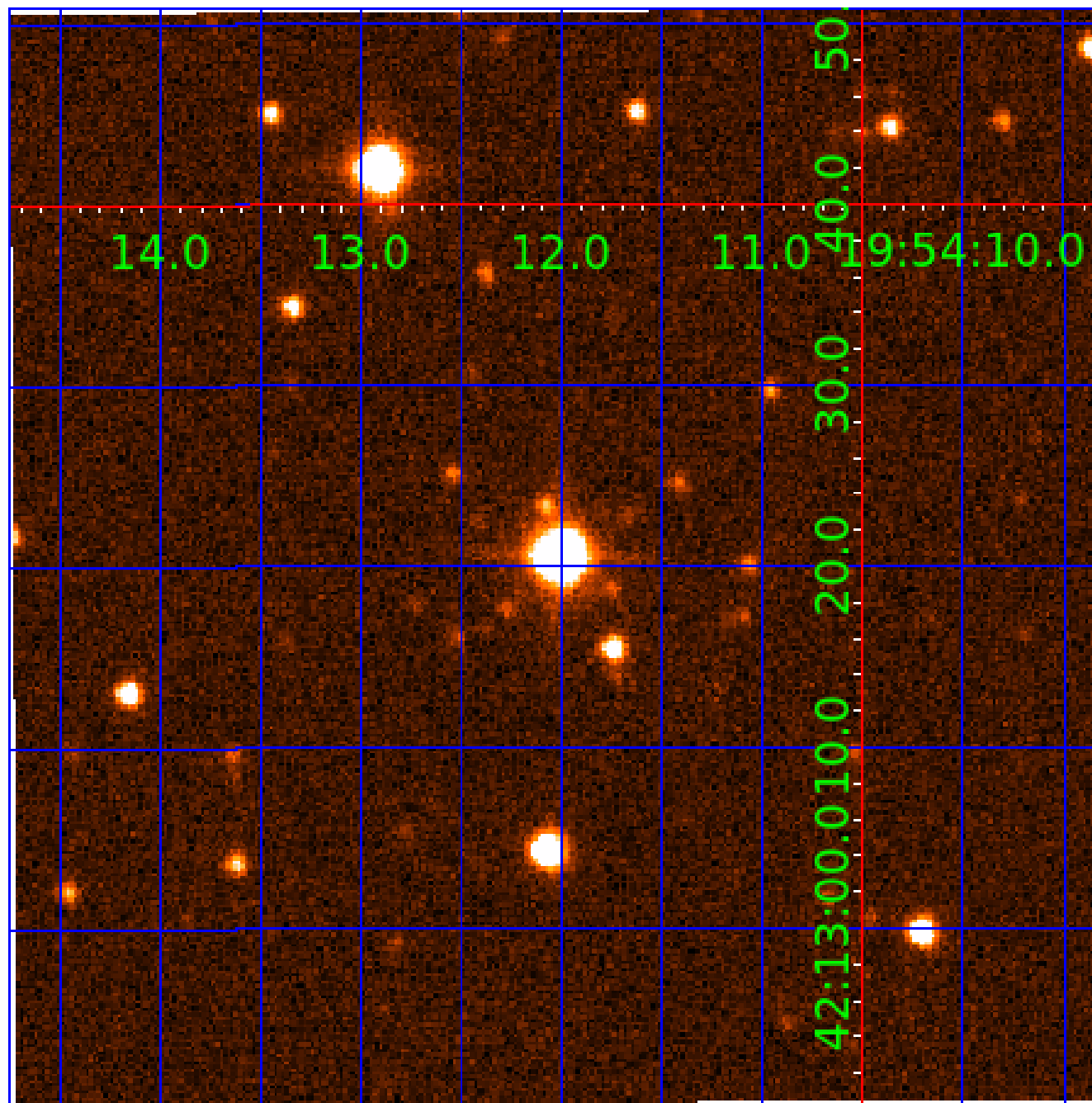


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006804957

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})
006804957-01	OBS	No	0.554175	131.781145	544.2	1.272	18.3	20.5	1.31	6233	3.62	12852.77
006804957-02	OBS	No	0.554193	131.632507	650.2	1.402	19.7	24.0	1.31	6233	3.95	12852.22
006804957-03	OBS	No	0.554181	132.051619	263.3	1.500	19.6	-1.0	1.31	6233	2.14	12852.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006804957-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
006804957-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006804957-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

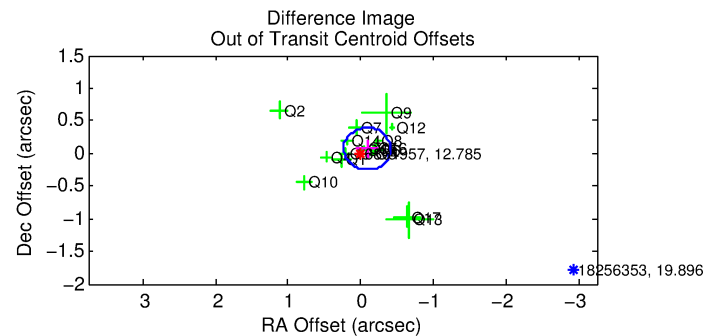
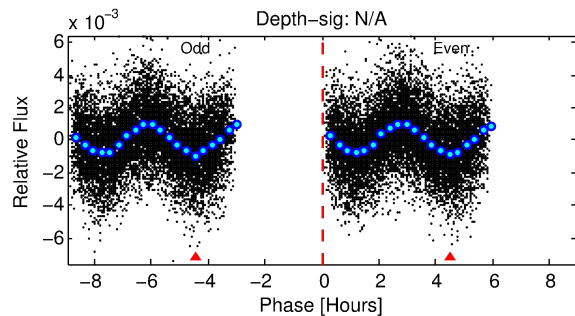
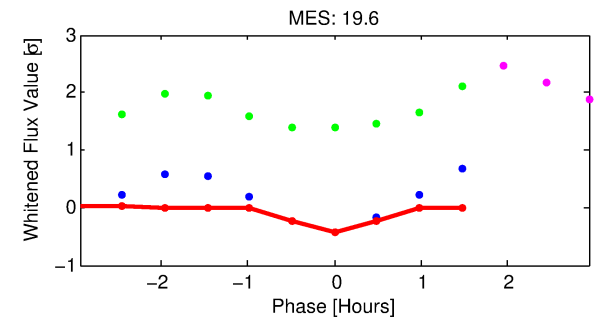
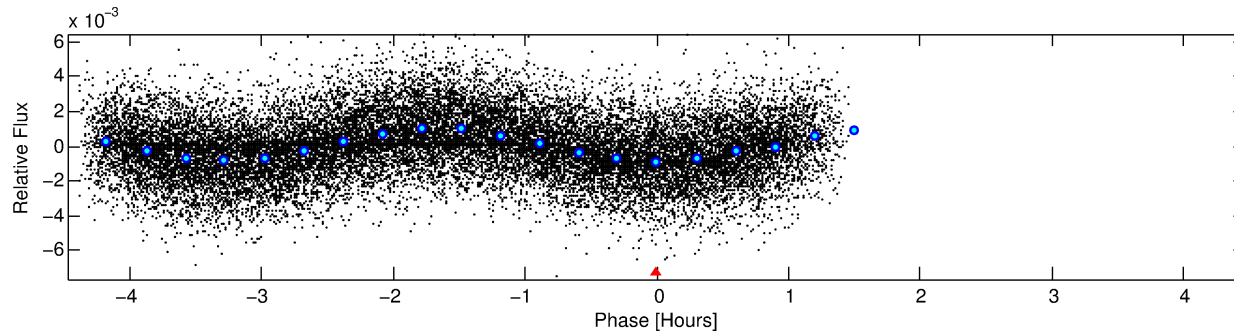
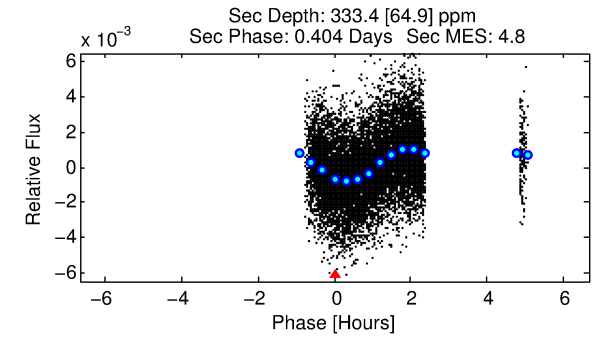
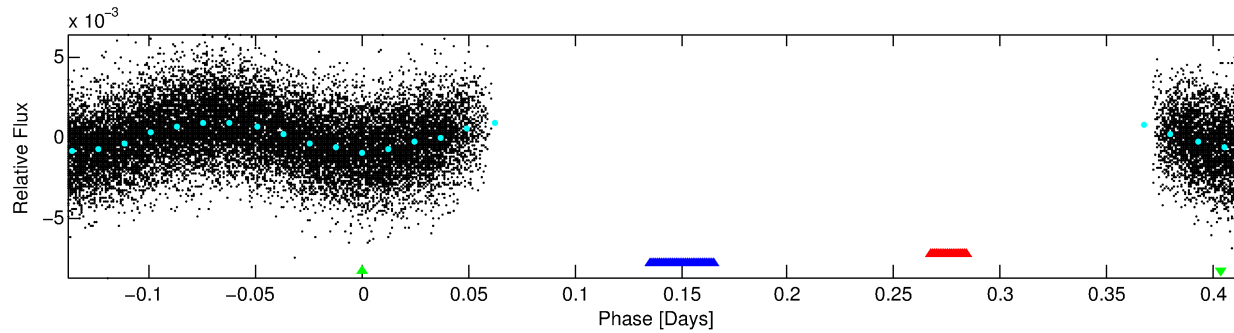
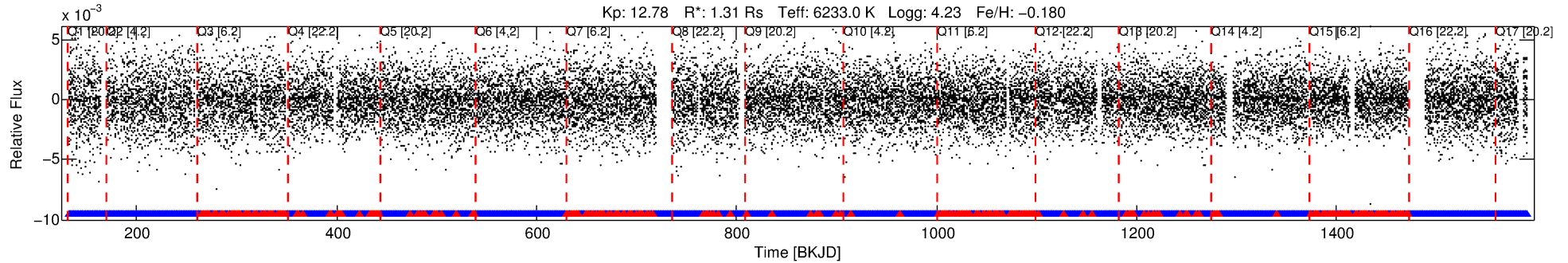
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006804957-03

No Significant Match Found

DV One-Page Summary

KIC: 6804957 Candidate: 3 of 3 Period: 0.554 d



TPS TCE Results:

Period = 0.55418 d
Epoch = 132.0516 BKJD

DV fit results are unavailable

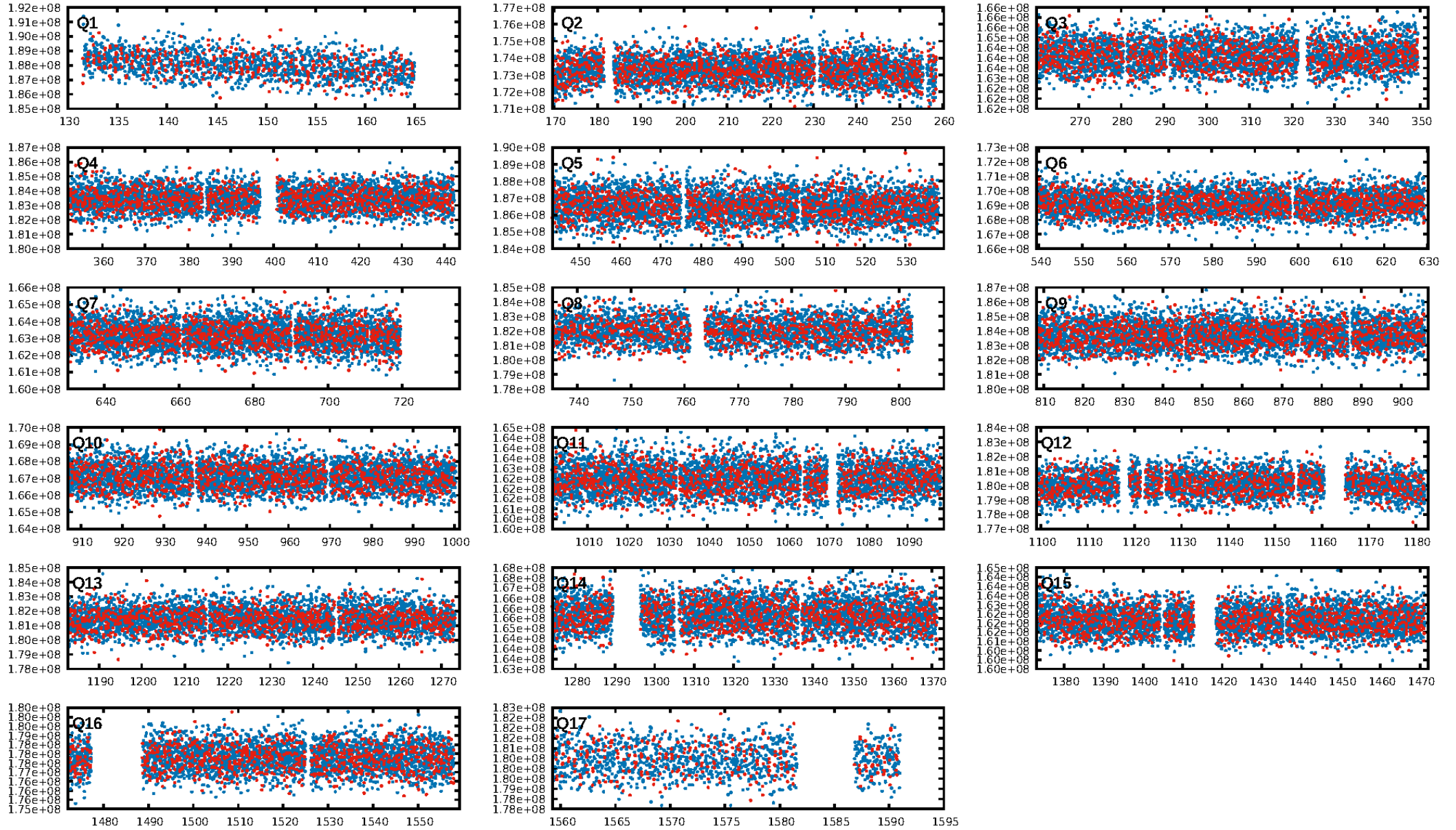
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.87 [2001/2308]
GhostDiagnostic-chr: -0.4423
Centroid-sig: 3.5%
Centroid-so: 0.127 arcsec [6.08σ]
OotOffset-rm: 0.111 arcsec [1.04σ]
KicOffset-rm: 0.270 arcsec [2.45σ]
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]

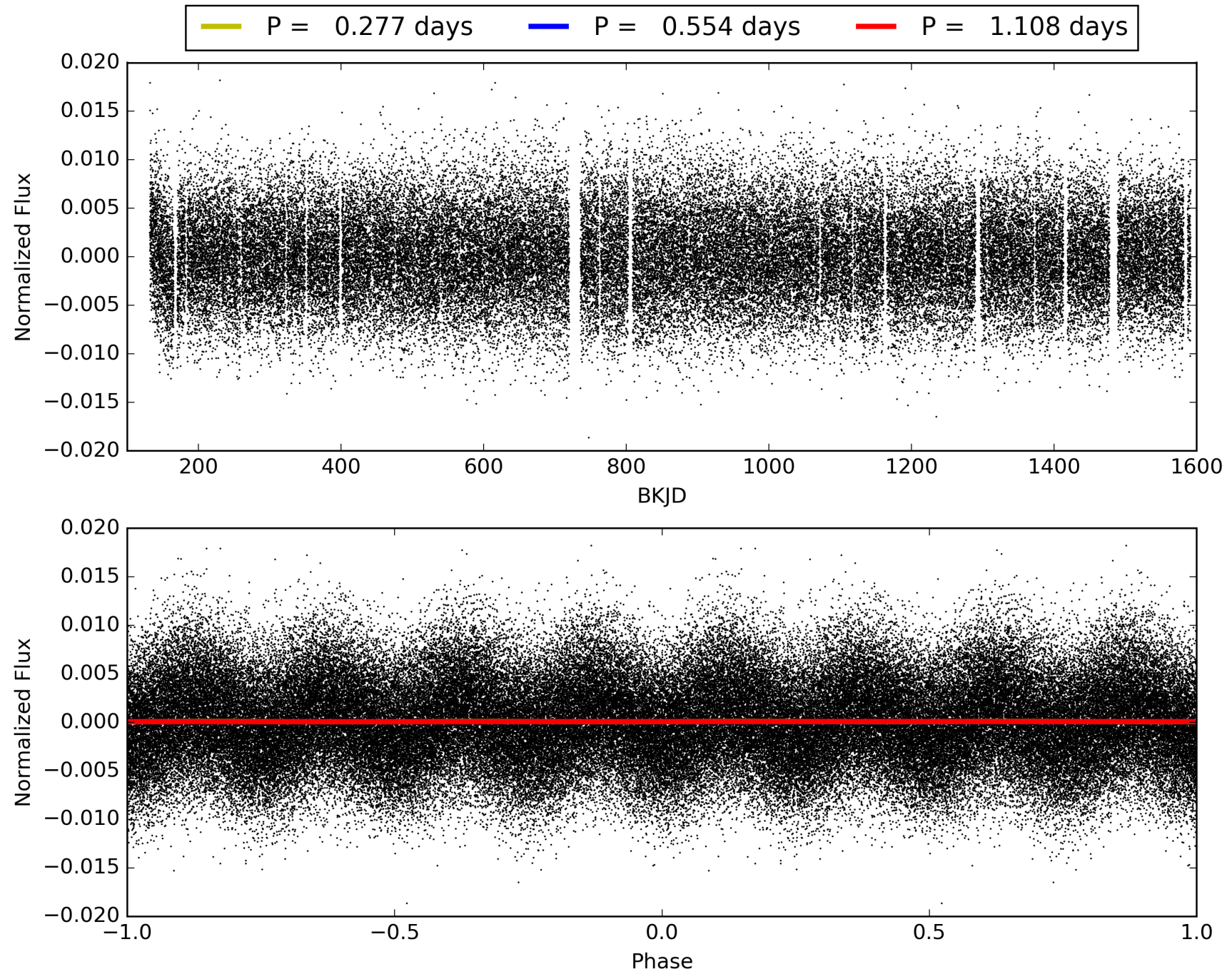
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:35:49 Z

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

TCE 006804957-03, PDC Light Curves

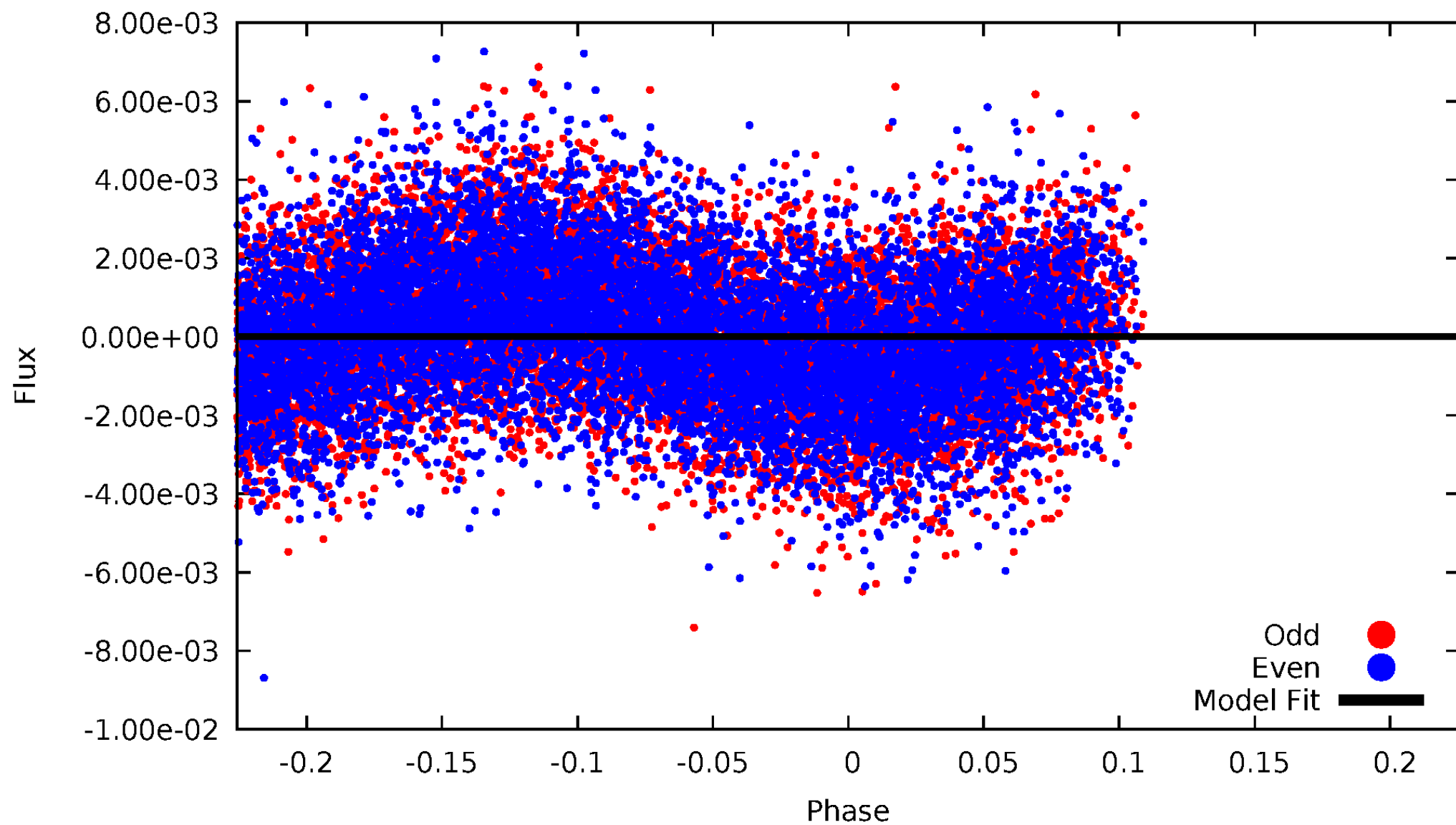


TCE 006804957-03



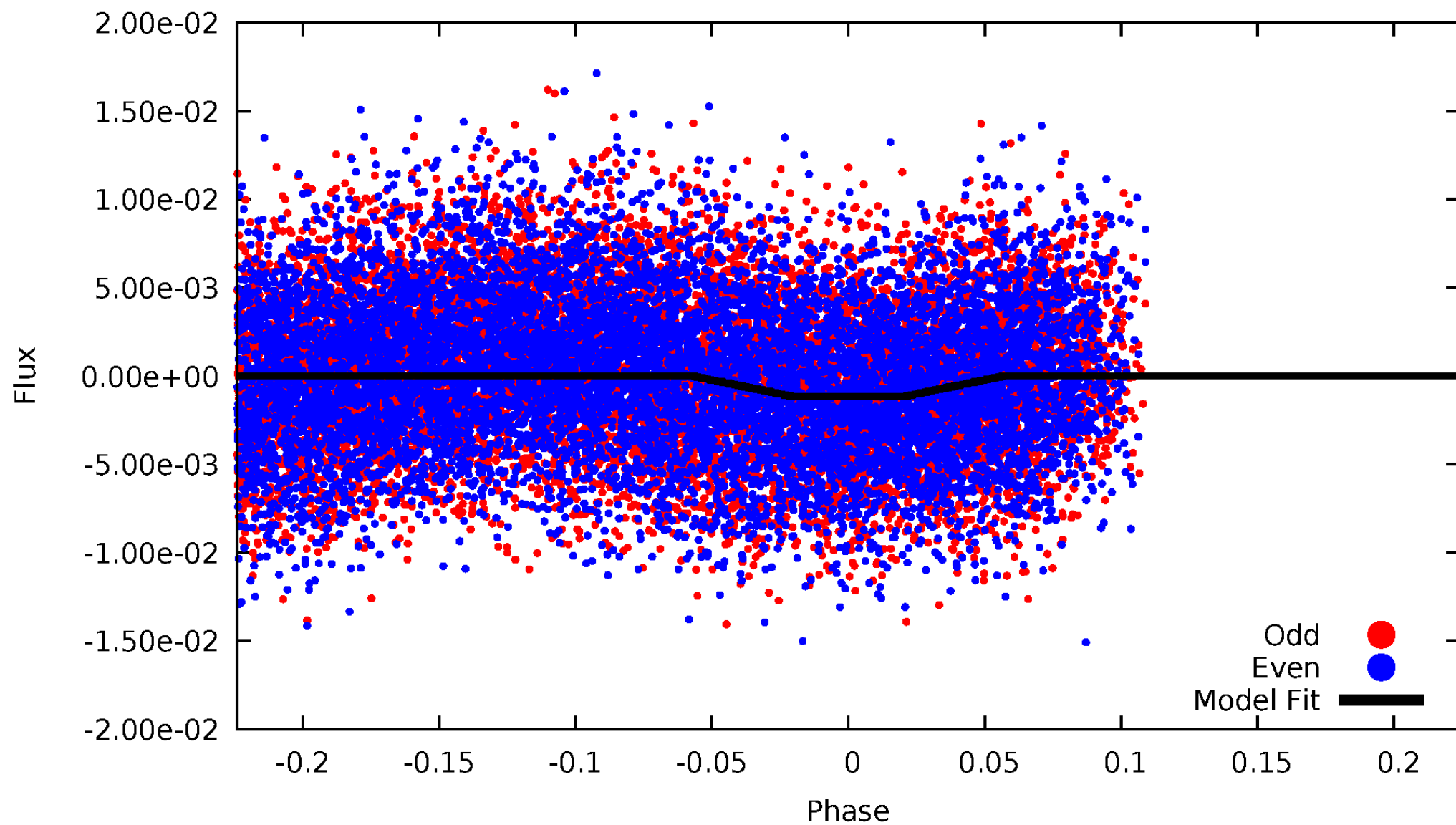
DV Odd/Even

TCE 006804957-03

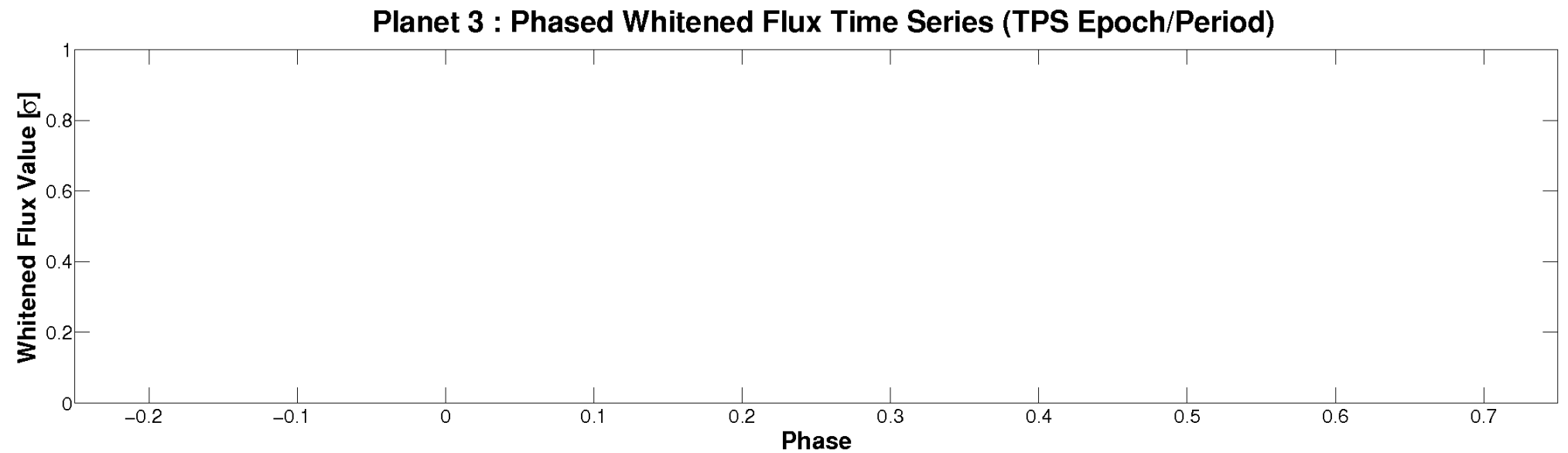
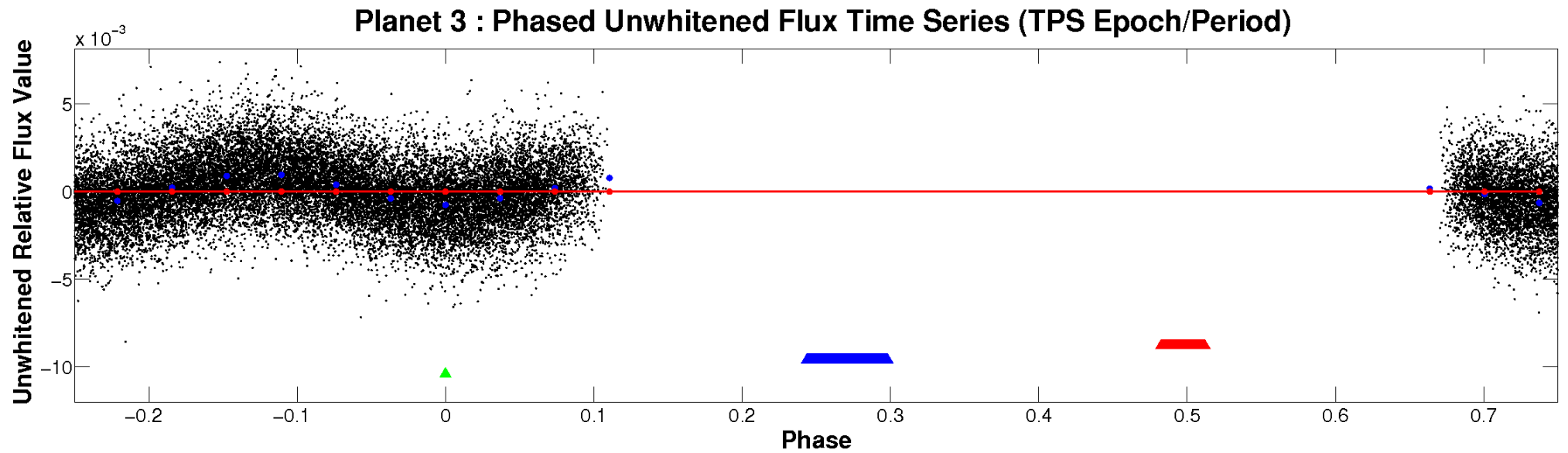


ALT Odd/Even

TCE 006804957-03

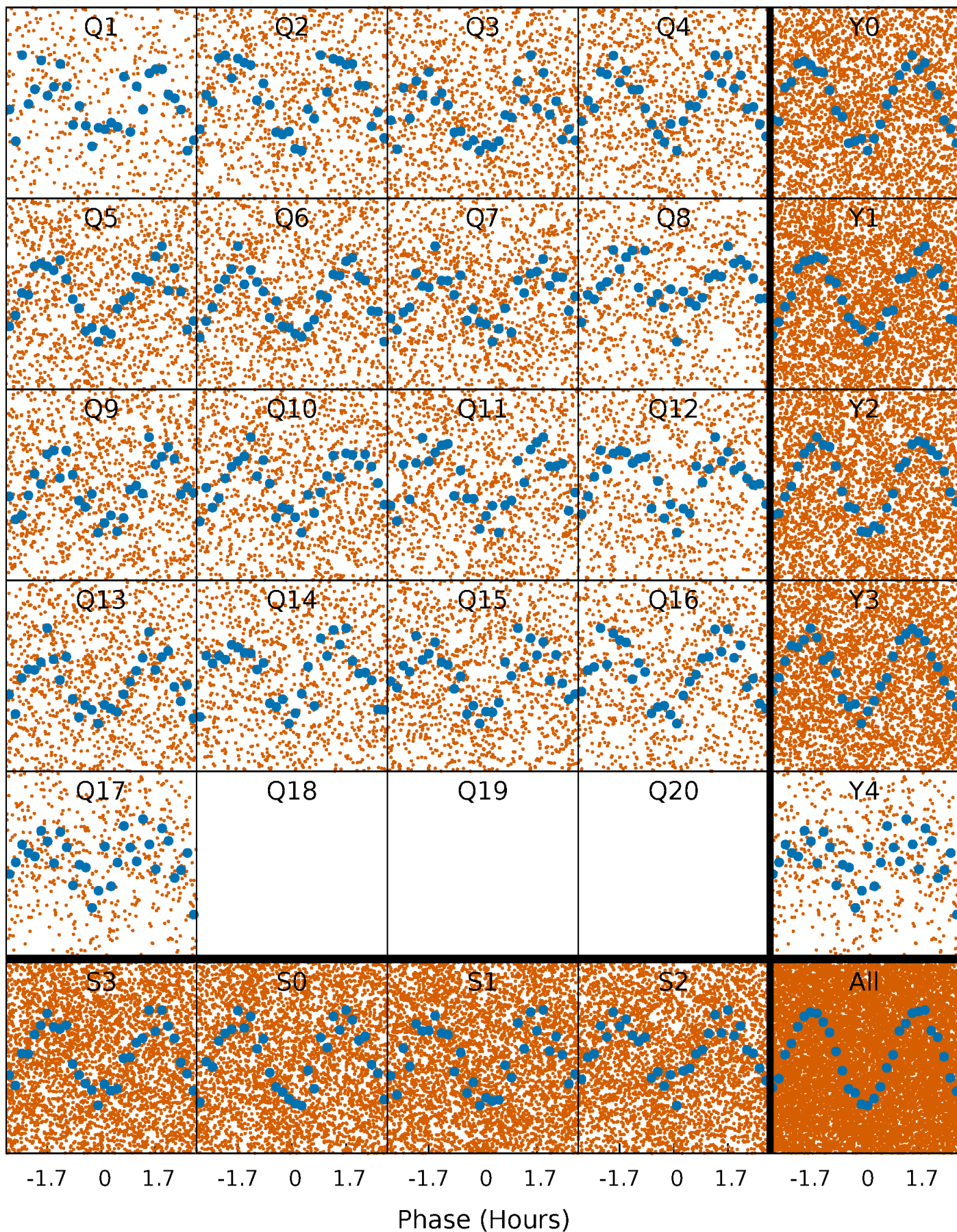


Non-Whitened Vs. Whitened Light Curve



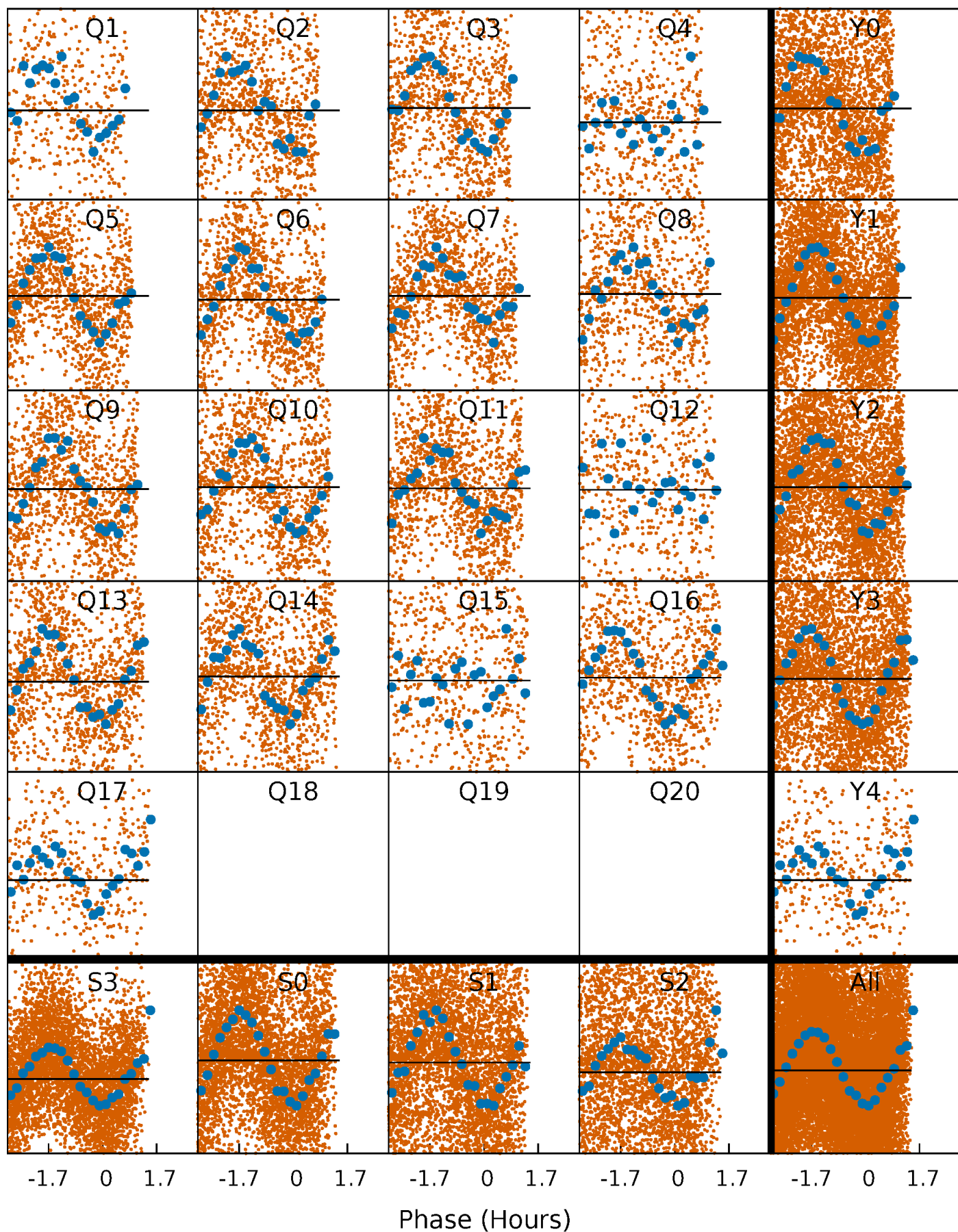
PDC Quarter-Phased Transit Curves

TCE 006804957-03 P= 0.554181 Days $T_0=132.051619$ (BKJD)



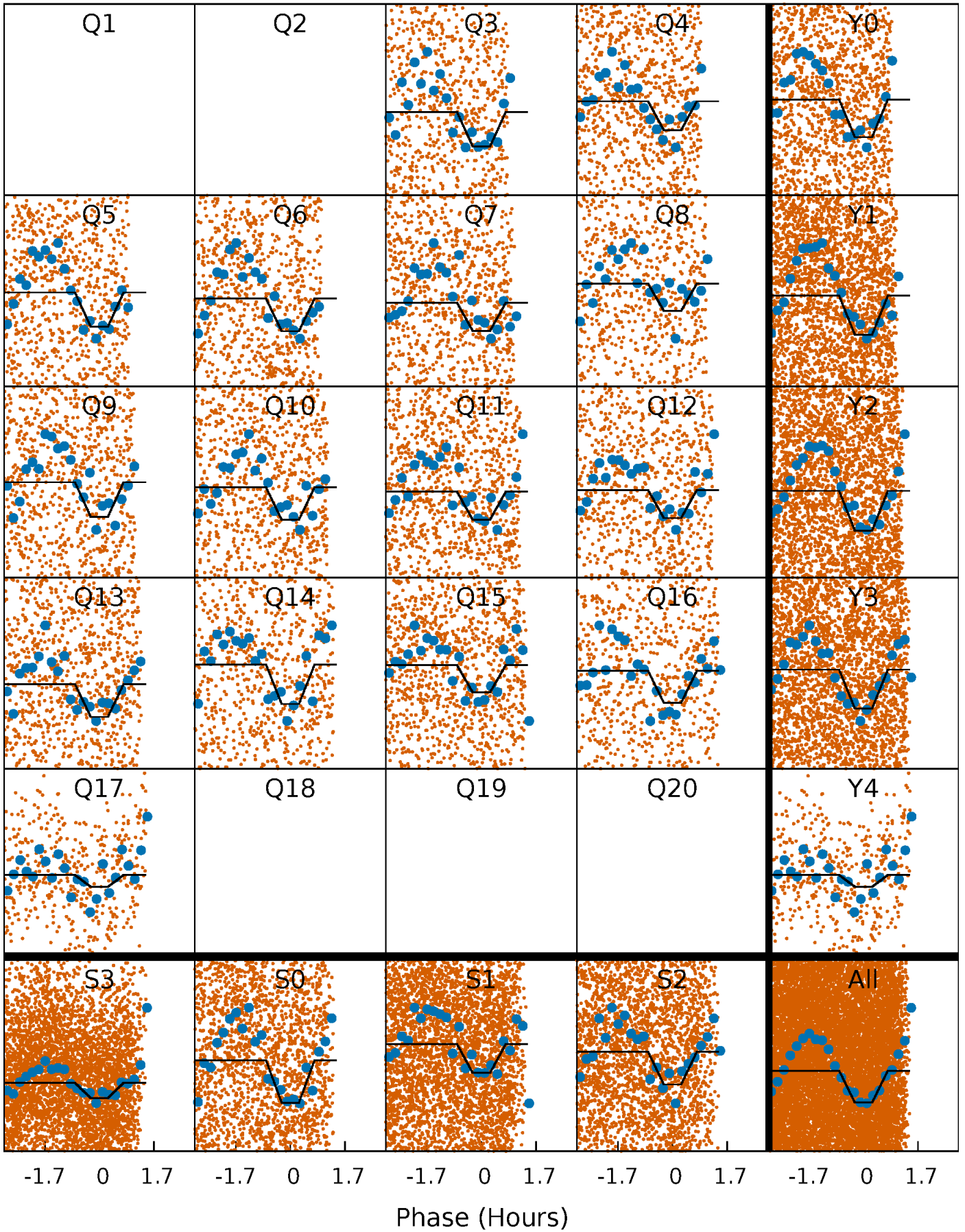
DV Quarter-Phased Transit Curves

TCE 006804957-03 P= 0.554181 Days $T_0=132.051619$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

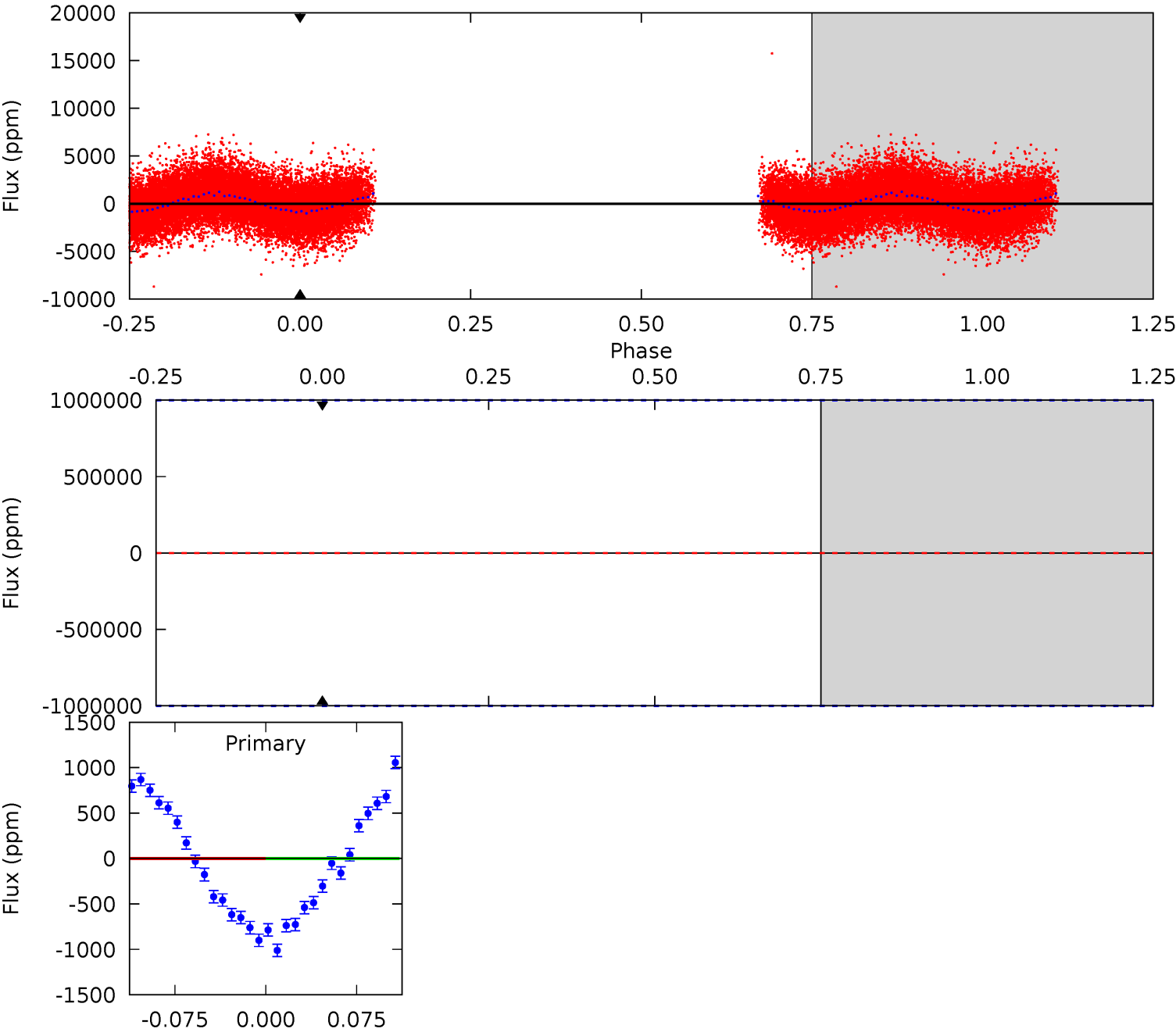
TCE 006804957-03 P= 0.554181 Days $T_0=132.051588$ (BKJD)



DV Model-Shift Uniqueness Test

006804957-03, P = 0.554181 Days, E = 131.497438 Days

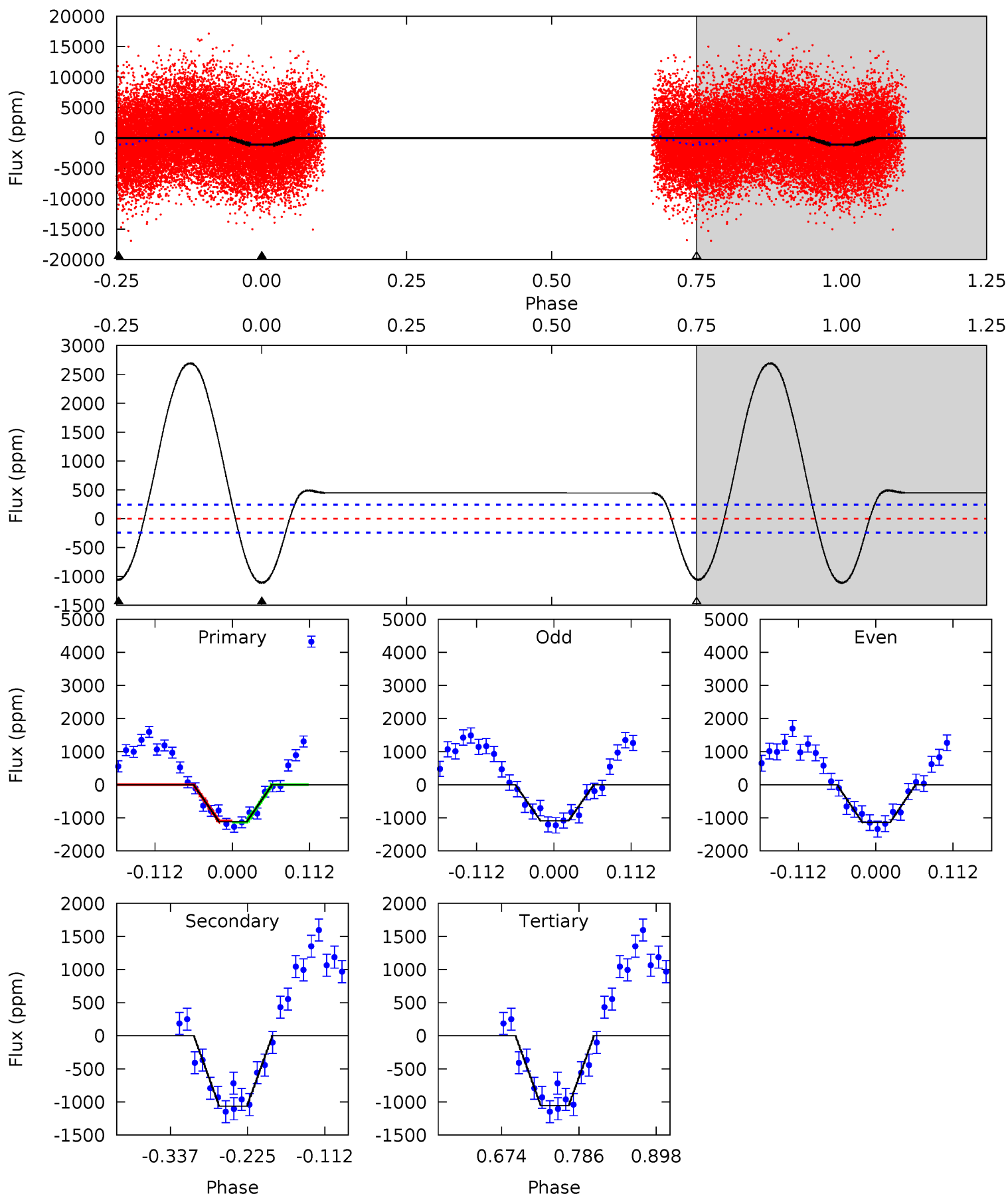
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006804957-03, P = 0.554181 Days, E = 132.051588 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.0	20.0	19.9	0	4.54	1.59	26.0	1.11	21.0	0.12	20.0	0.37	1.07	0.71	0.32



Stellar Parameters For KIC 006804957

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6233^{+197}_{-241}	$4.227^{+0.185}_{-0.185}$	$-0.180^{+0.250}_{-0.300}$	$1.313^{+0.407}_{-0.305}$	$1.060^{+0.181}_{-0.131}$	$0.659^{+0.623}_{-0.316}$
	+3%/-4%	+4%/-4%	+139%/-167%	+31%/-23%	+17%/-12%	+94%/-48%
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 006804957-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$10.22^{+10.93}_{-7.10}$	3794^{+281}_{-281}	-4051^{+31382}_{-23884}	$-0.315^{+191.928}_{-187.196}$
Alt.	-1062 ± 53	$11.36^{+10.76}_{-7.59}$	3776^{+306}_{-263}	3894^{+2942}_{-6829}	$0.833^{+6.631}_{-0.614}$

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

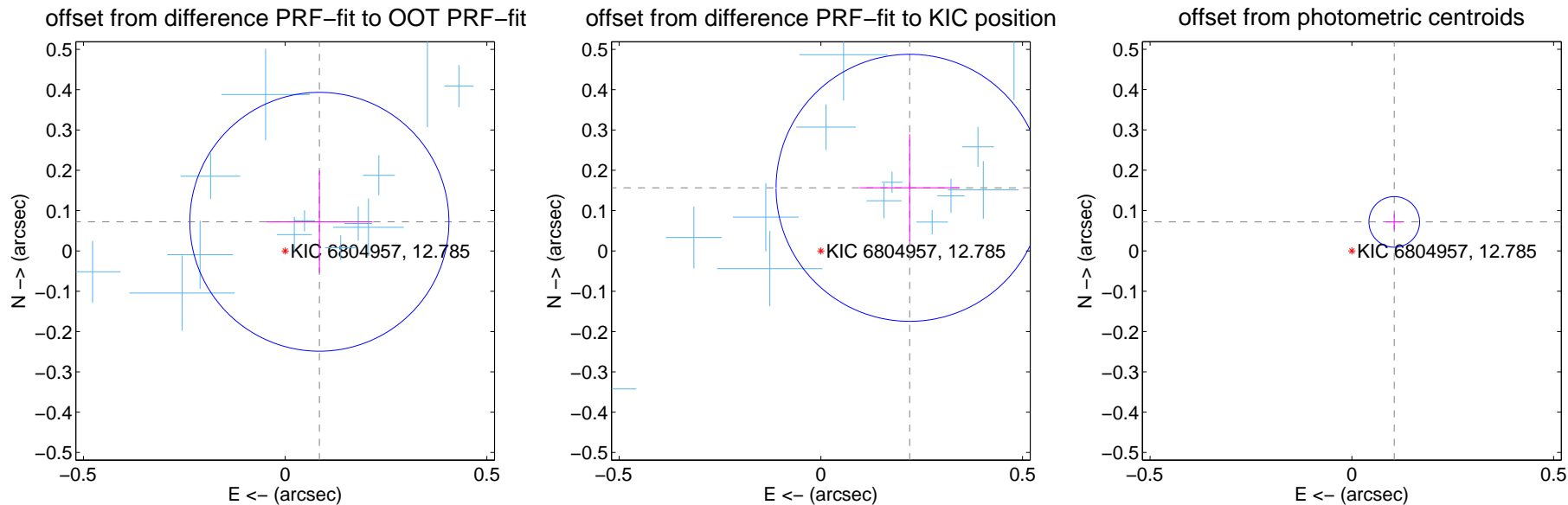
DV Centroid Data

Supplemental centroid analysis for 006804957-03. Kepler magnitude: 12.79. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

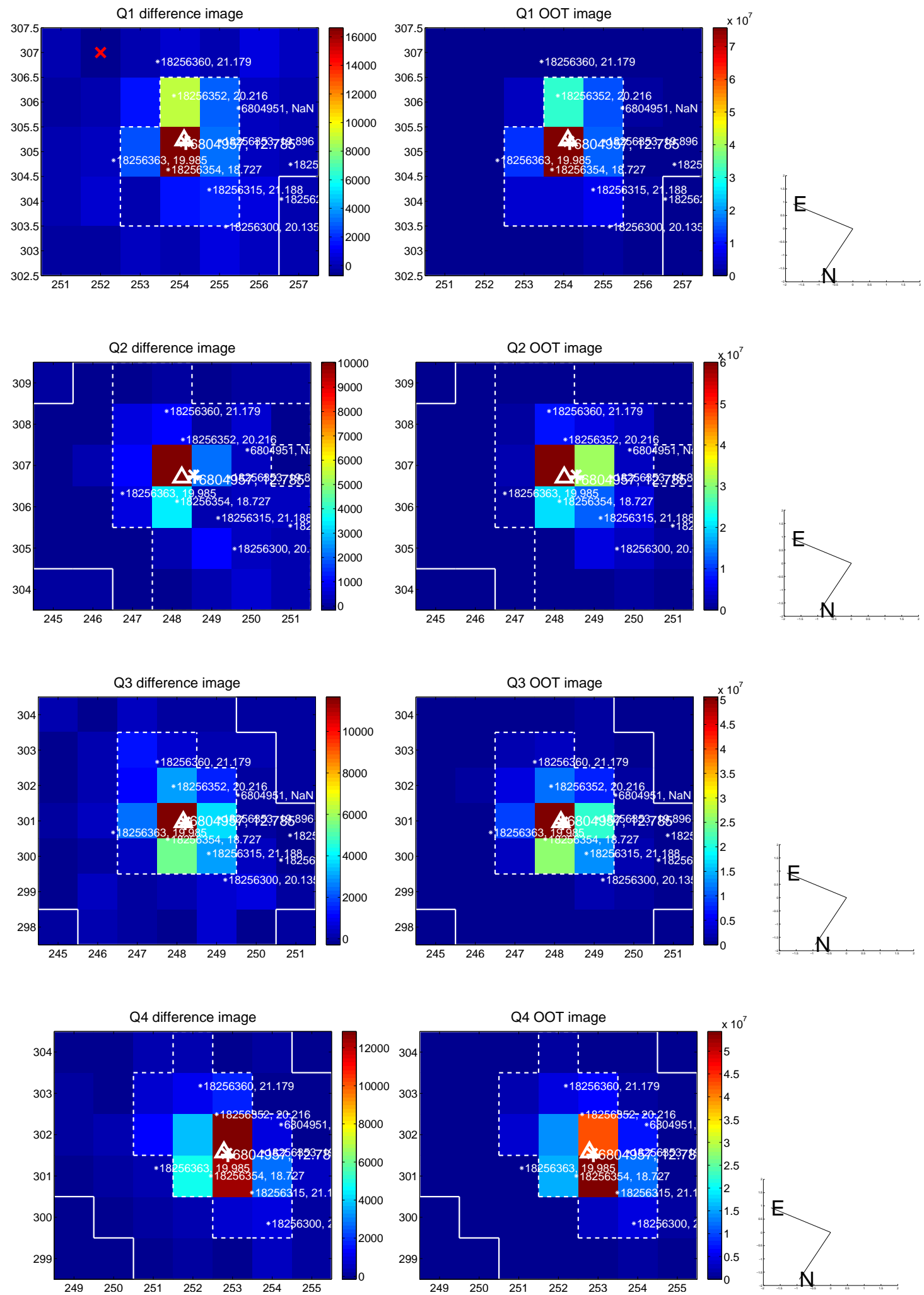
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.111 ± 0.107	1.04	-0.085 ± 0.132	0.072 ± 0.127
PRF-fit source offset from KIC position	0.270 ± 0.110	2.45	-0.220 ± 0.124	0.157 ± 0.133
photometric centroid source offset	0.13 ± 0.02	6.08	-0.11 ± 0.02	0.07 ± 0.02

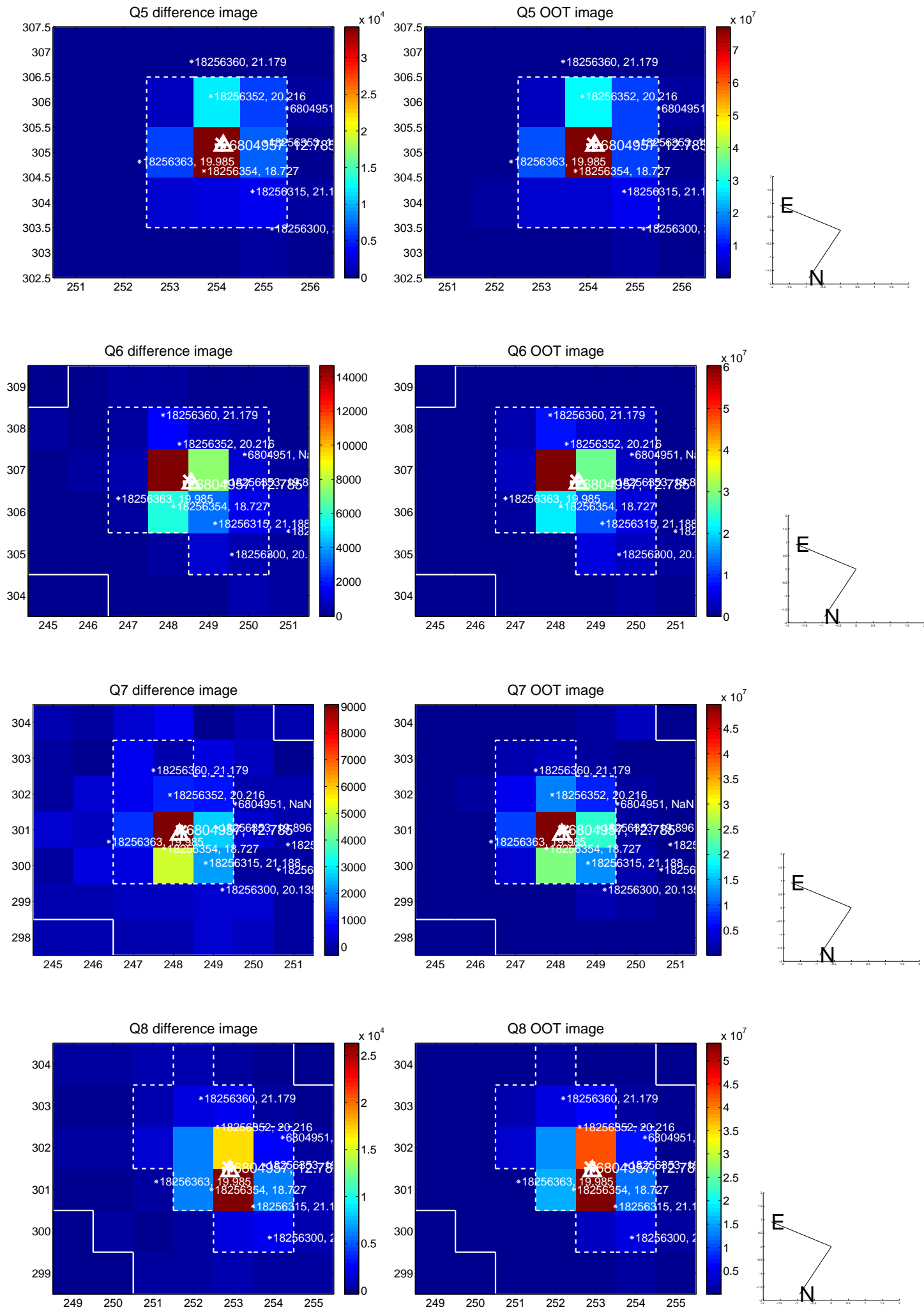


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

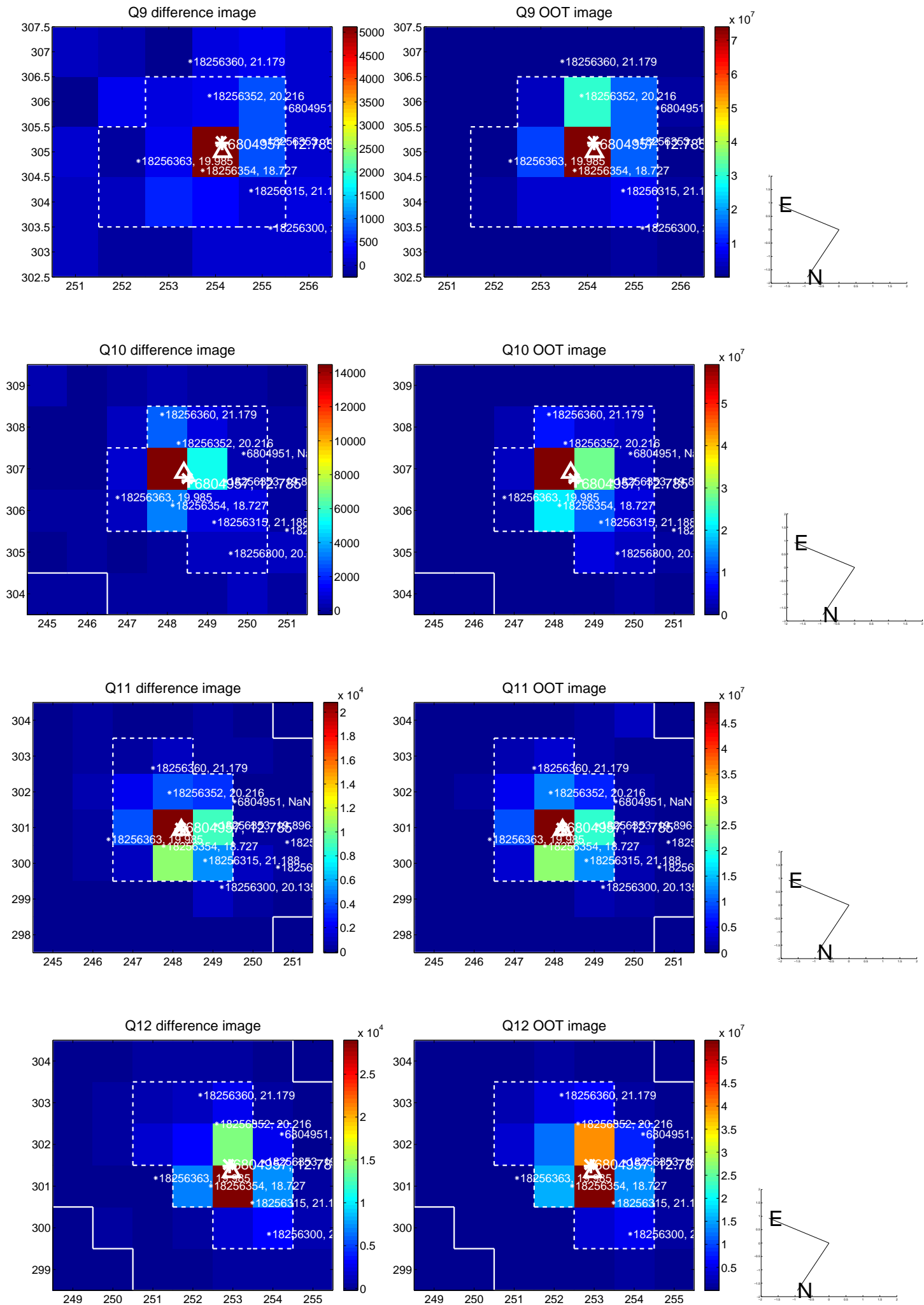
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



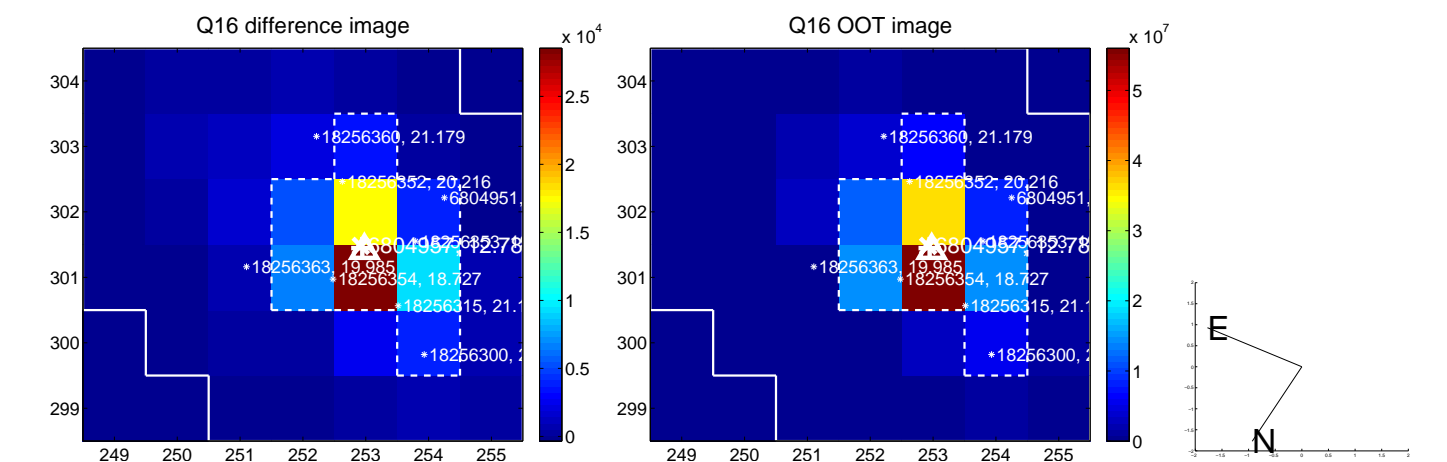
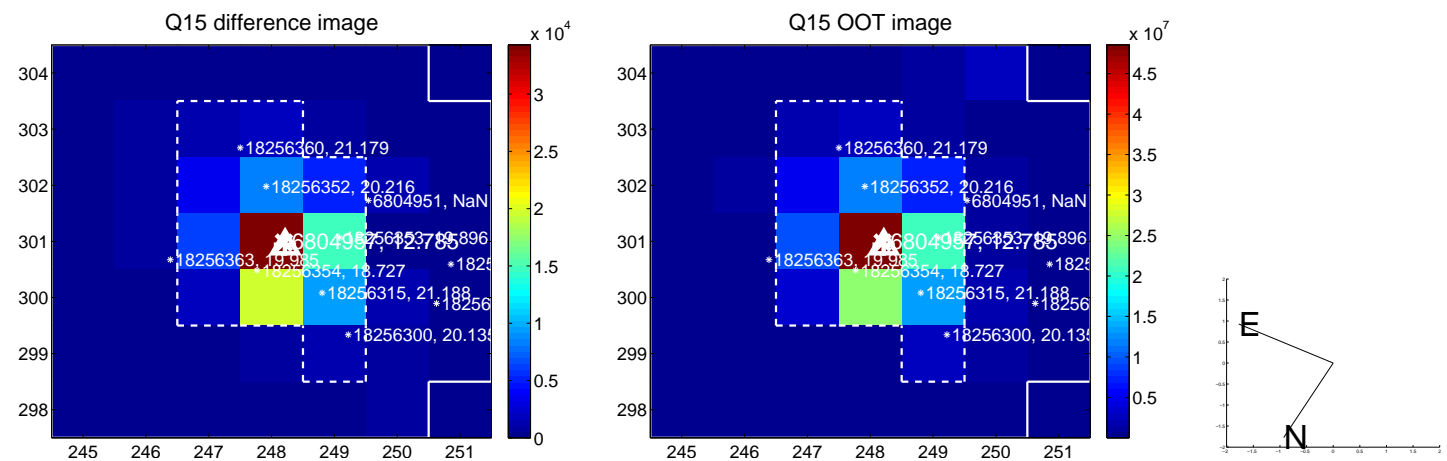
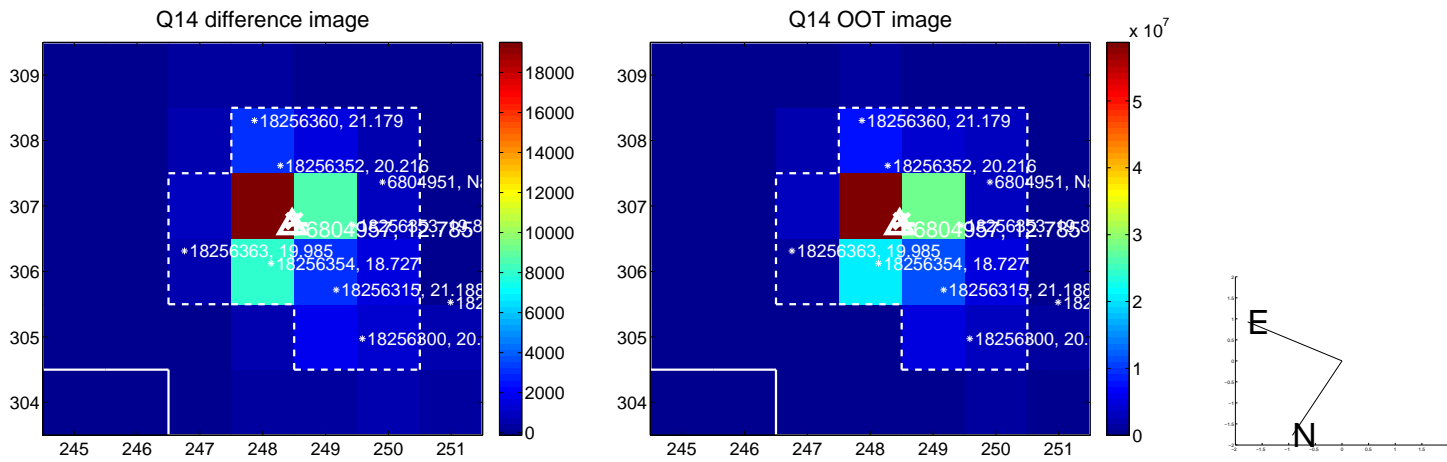
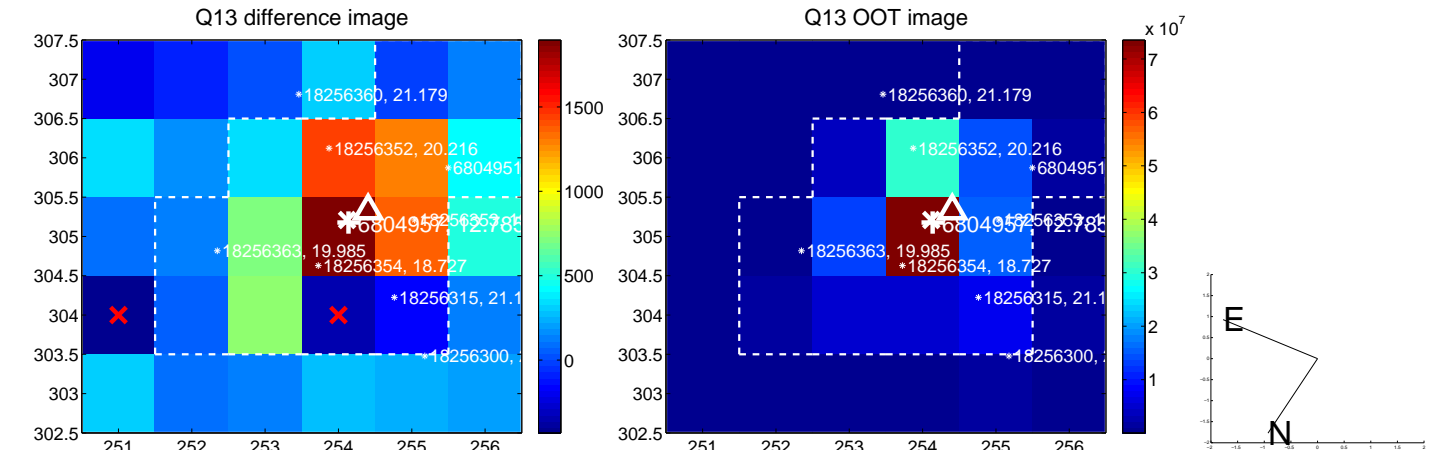
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



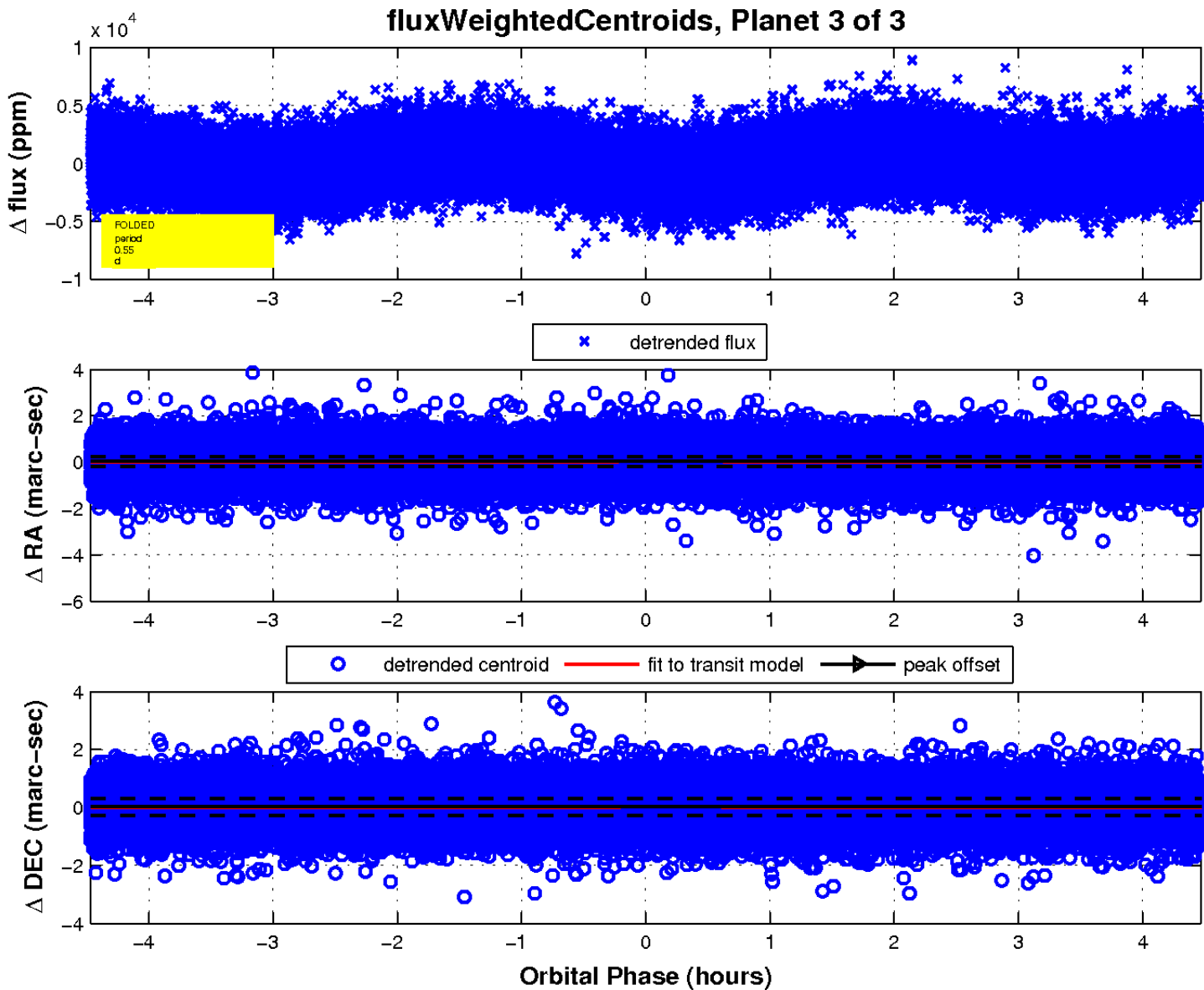
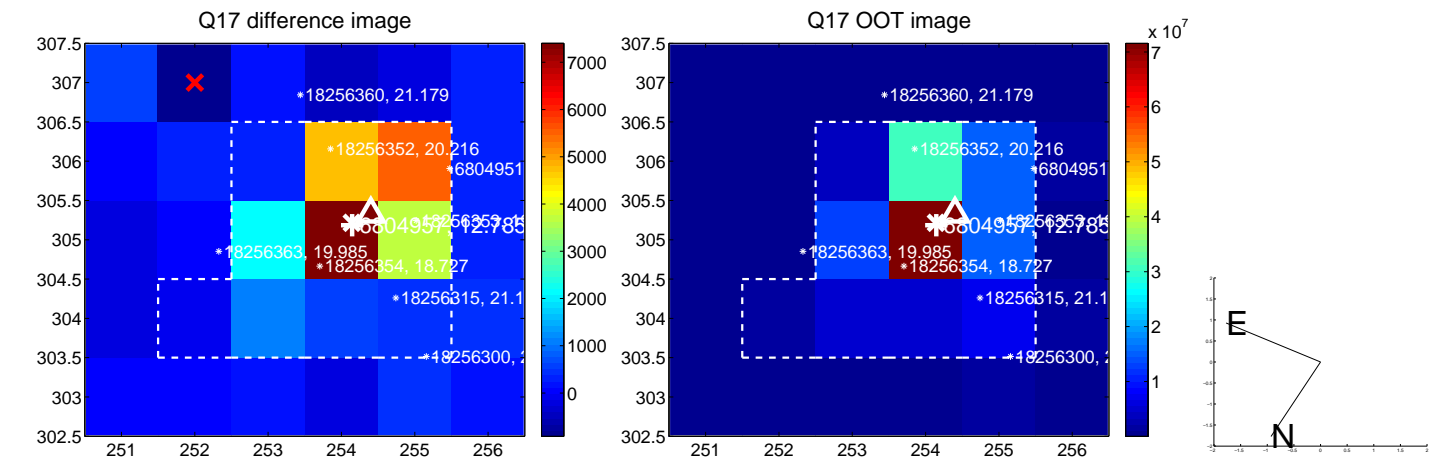
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

