

KIC 007467518

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})
007467518-01	OBS	No	1.711766	132.999378	55.7	5.486	9.1	9.6	2.73	7663	2.36	18775.04
007467518-02	OBS	No	4.032674	135.355788	113.7	3.771	7.6	9.1	2.73	7663	3.37	5989.39
007467518-03	OBS	No	227.497501	138.726102	885.3	3.260	7.4	8.3	2.73	7663	9.07	27.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007467518-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007467518-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007467518-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

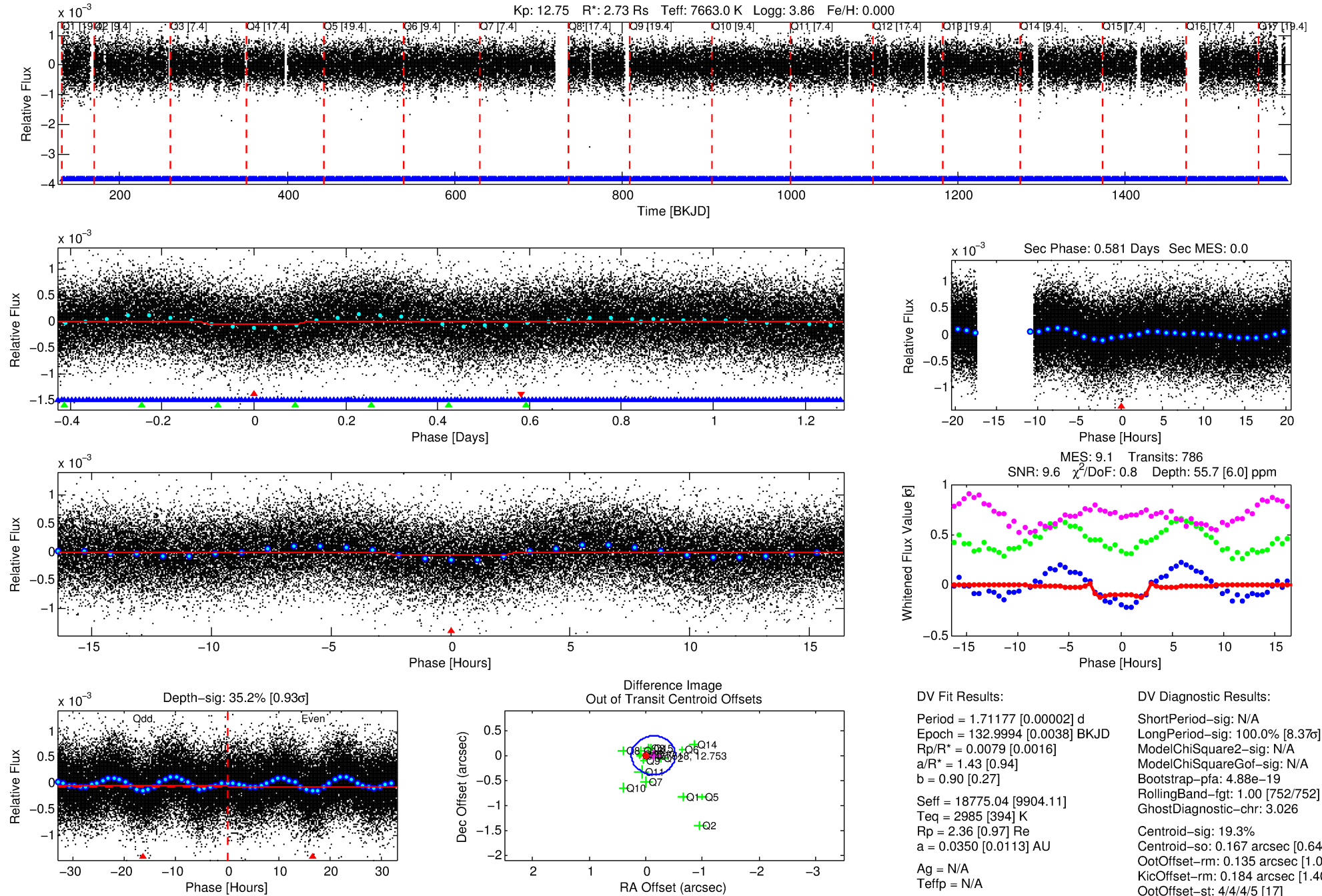
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007467518-01

No Significant Match Found

DV One-Page Summary

KIC: 7467518 Candidate: 1 of 3 Period: 1.712 d



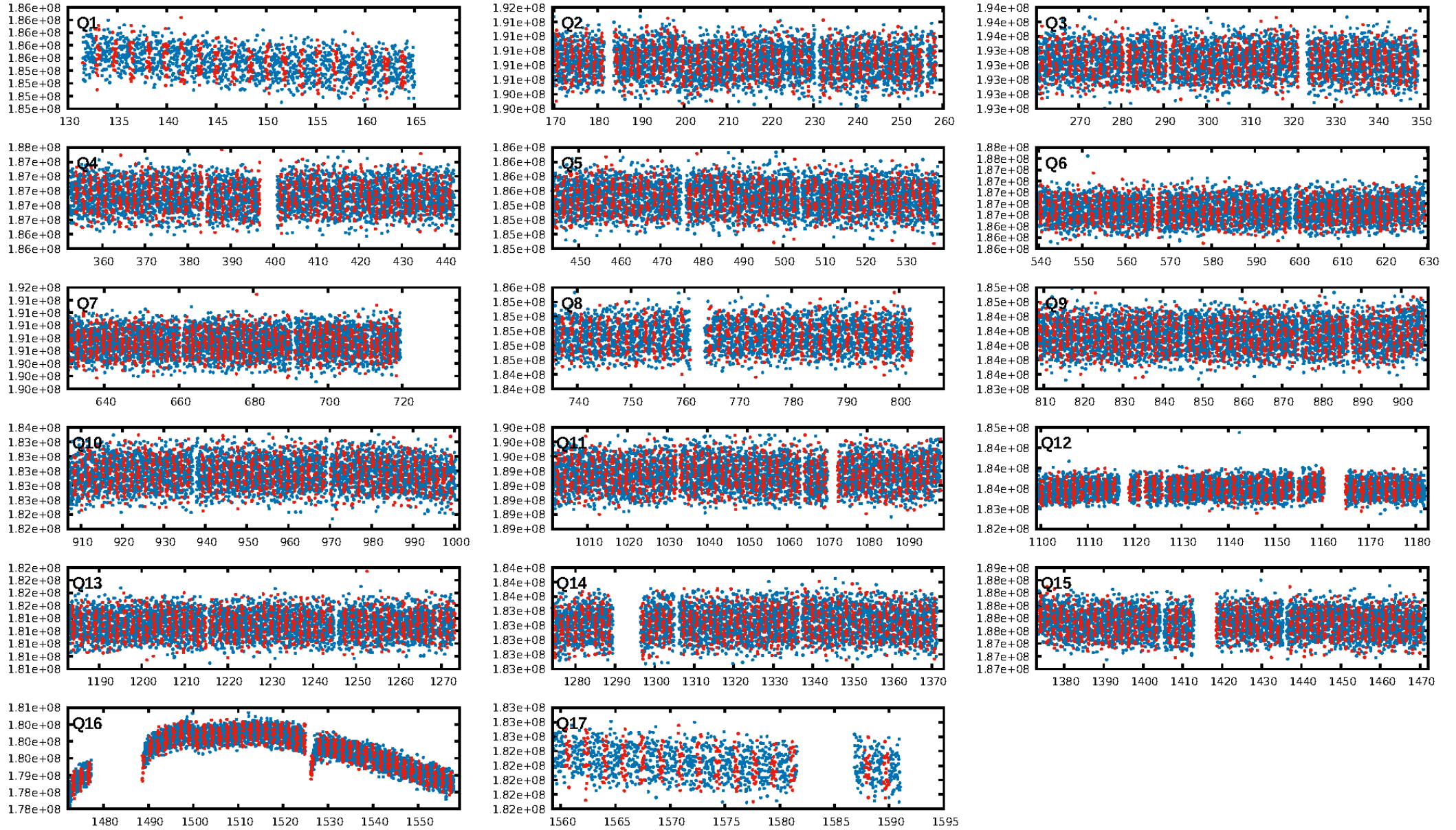
DV Fit Results:

Period = 1.71177 [0.00002] d
Epoch = 132.9994 [0.0038] BKJD
Rp/R* = 0.0079 [0.0016]
a/R* = 1.43 [0.94]
b = 0.90 [0.27]
Seff = 18775.04 [9904.11]
Teq = 2985 [394] K
Rp = 2.36 [0.97] Re
a = 0.0350 [0.0113] AU
Ag = N/A
Teffp = N/A

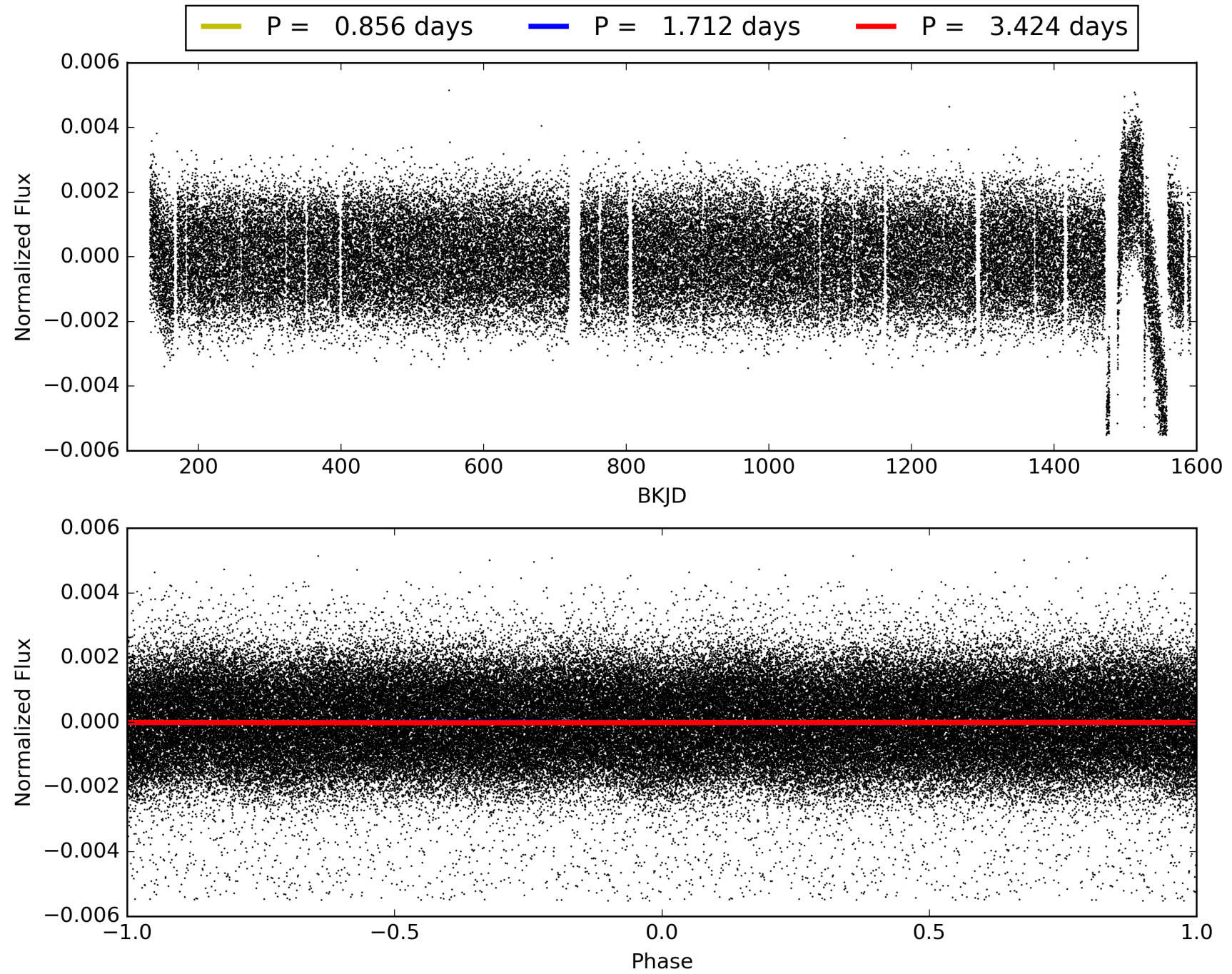
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [8.37 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.88e-19
RollingBand-fgt: 1.00 [752/752]
GhostDiagnostic-chr: 3.026
Centroid-sig: 19.3%
Centroid-so: 0.167 arcsec [0.64 σ]
OotOffset-rm: 0.135 arcsec [1.04 σ]
KicOffset-rm: 0.184 arcsec [1.40 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007467518-01, PDC Light Curves

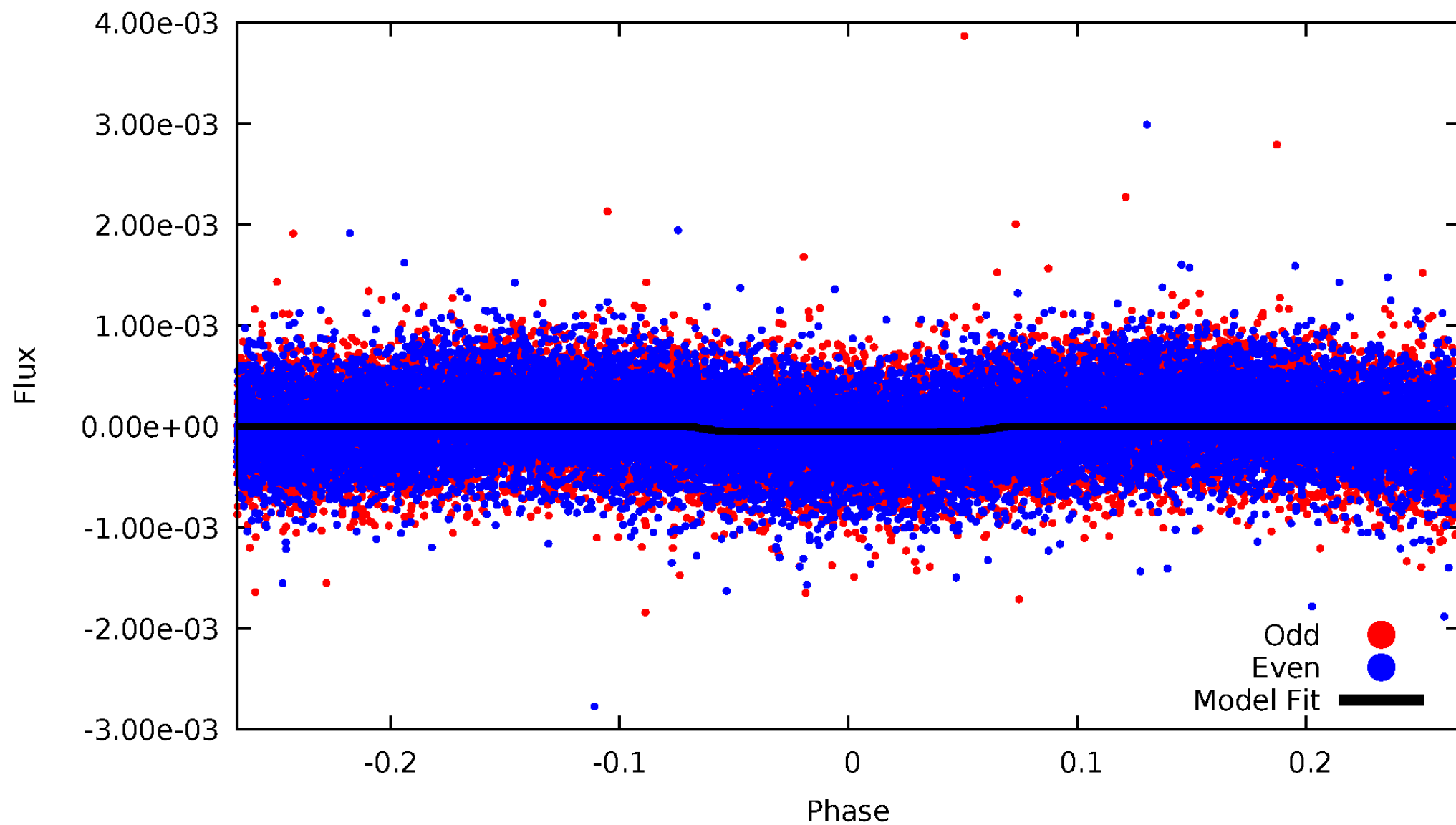


TCE 007467518-01



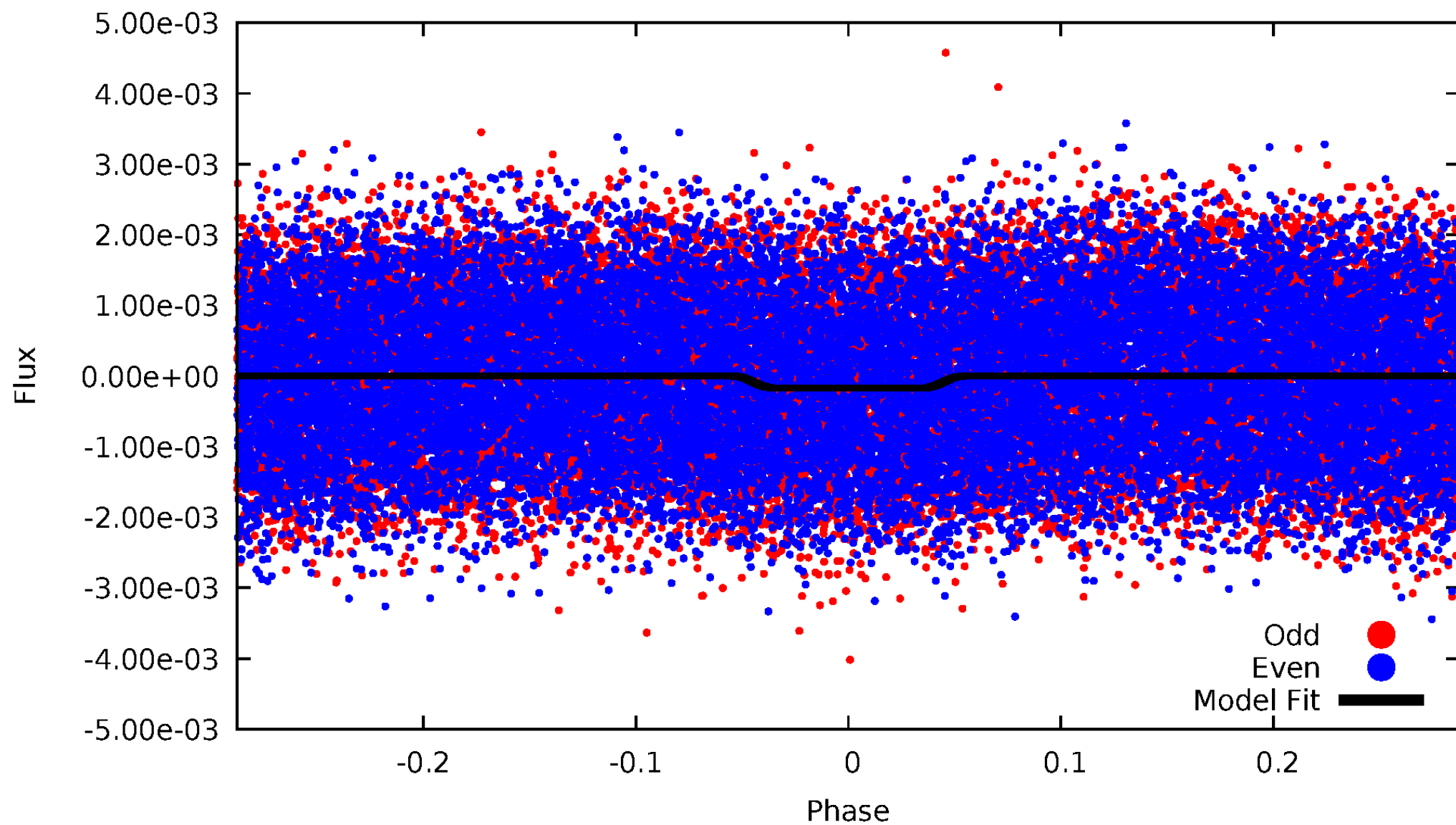
DV Odd/Even

TCE 007467518-01



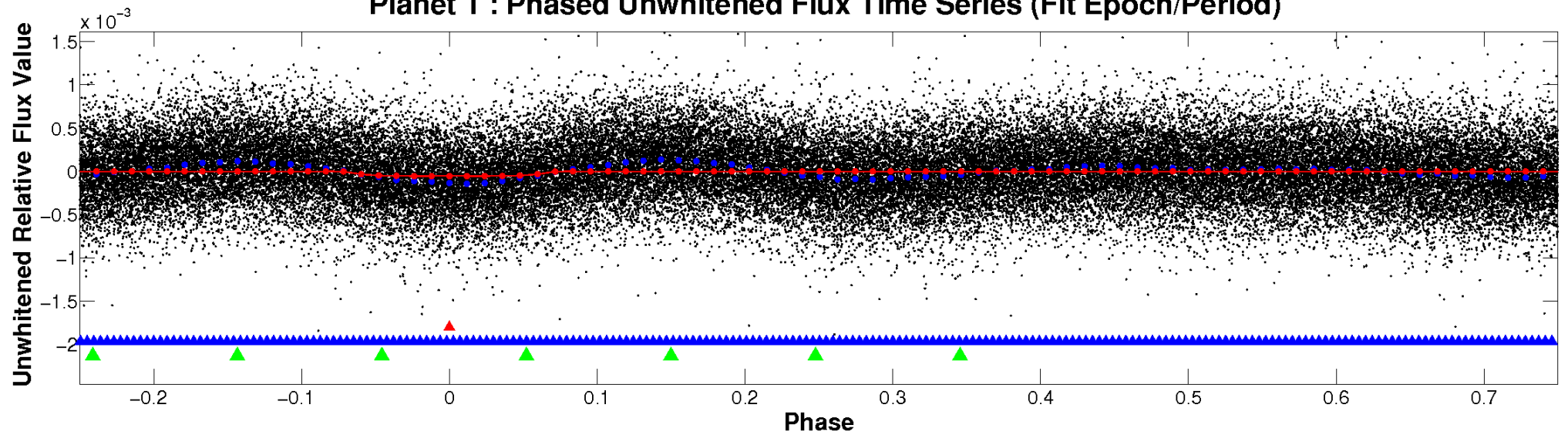
ALT Odd/Even

TCE 007467518-01

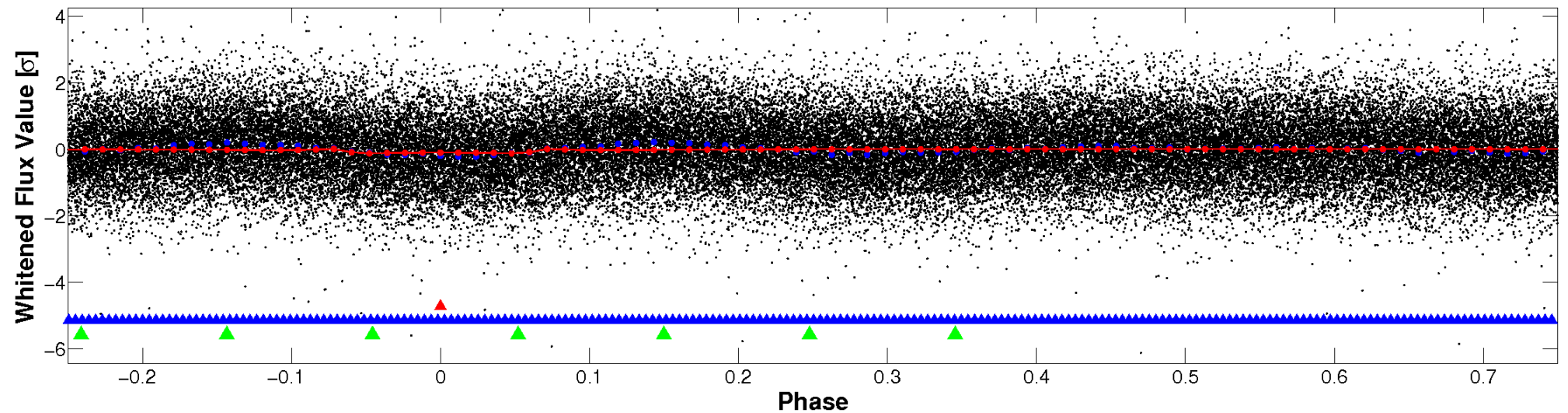


Non-Whitened Vs. Whitened Light Curve

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

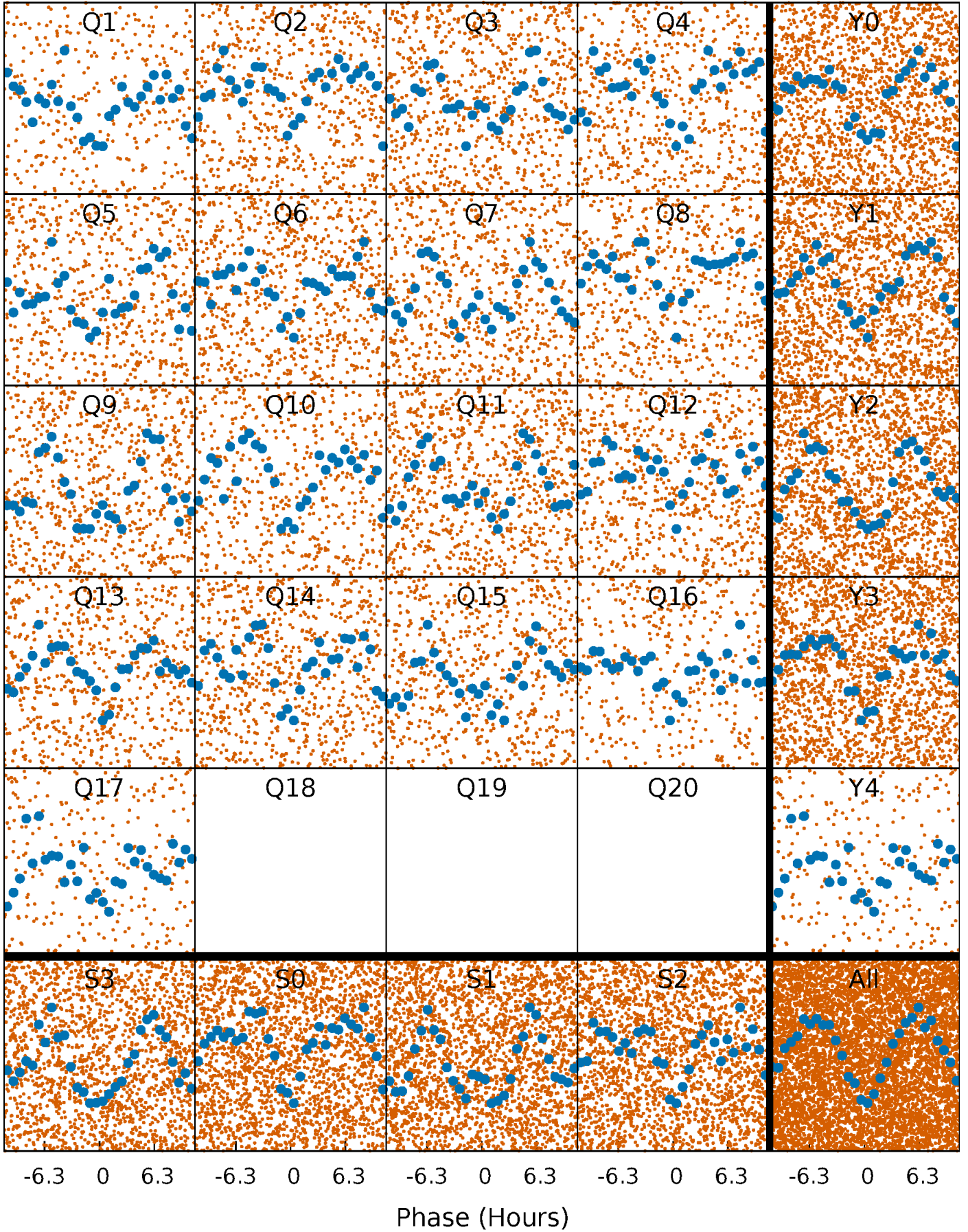


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



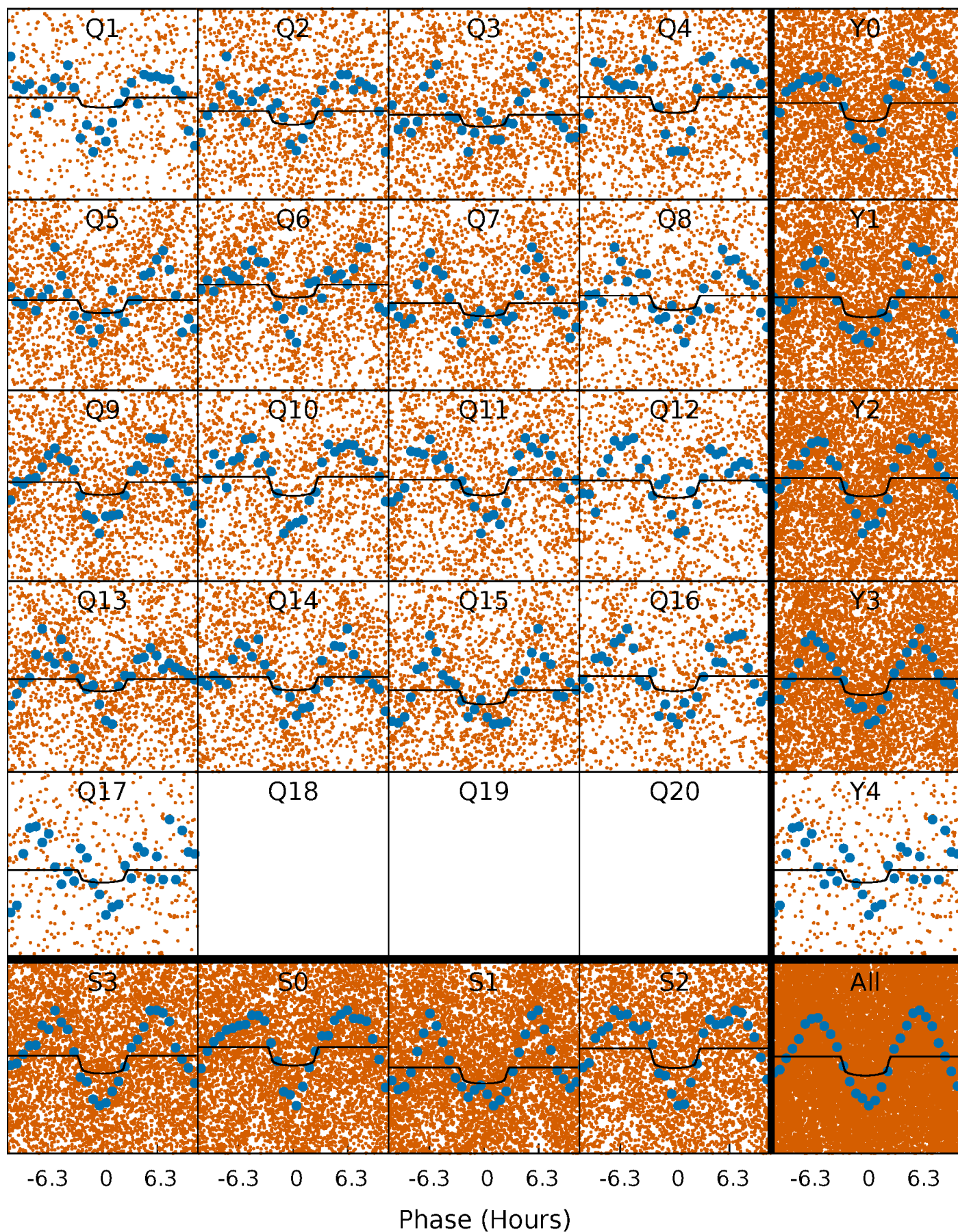
PDC Quarter-Phased Transit Curves

TCE 007467518-01 P= 1.711766 Days $T_0=132.999378$ (BKJD)



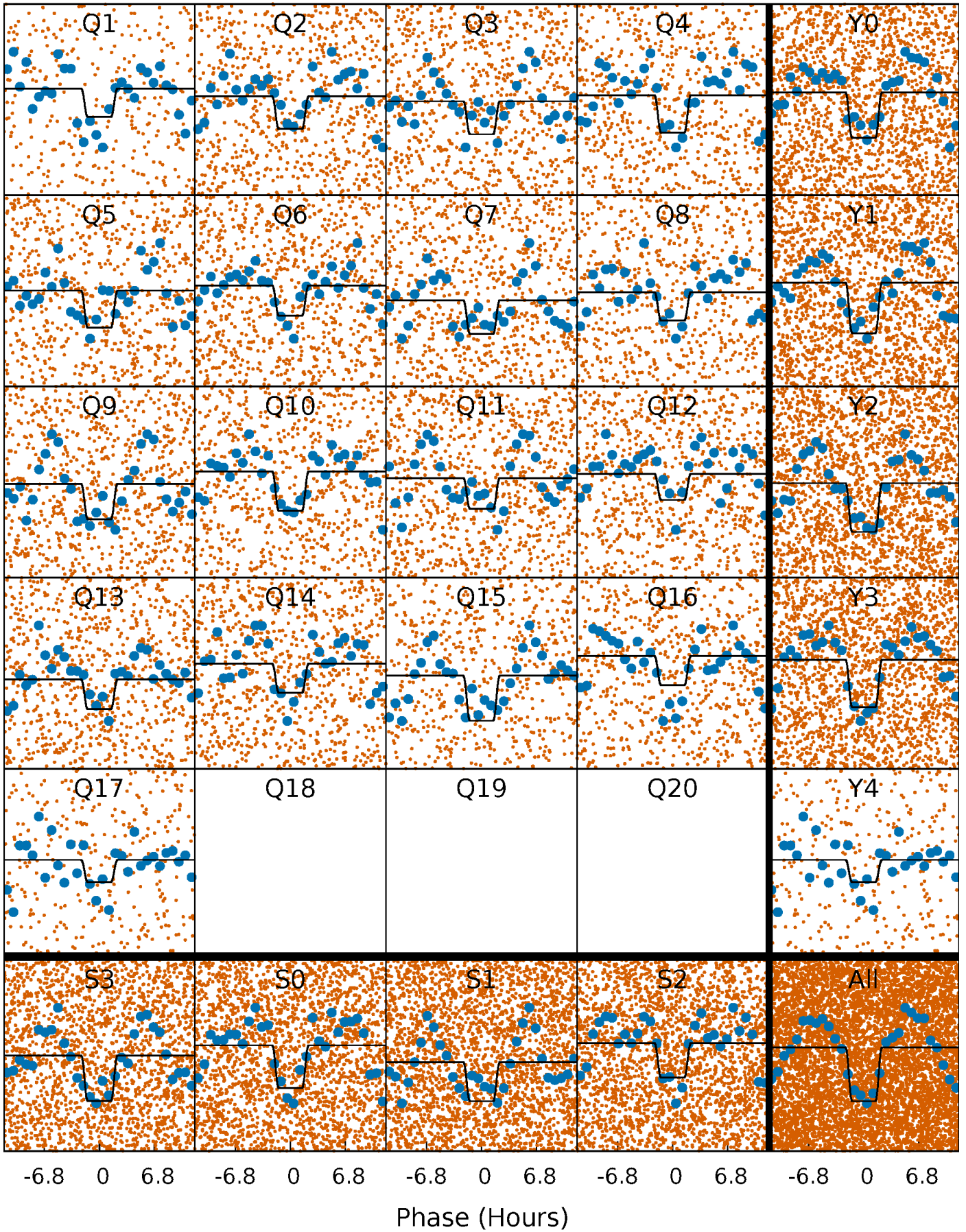
DV Quarter-Phased Transit Curves

TCE 007467518-01 P= 1.711766 Days $T_0=132.999378$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

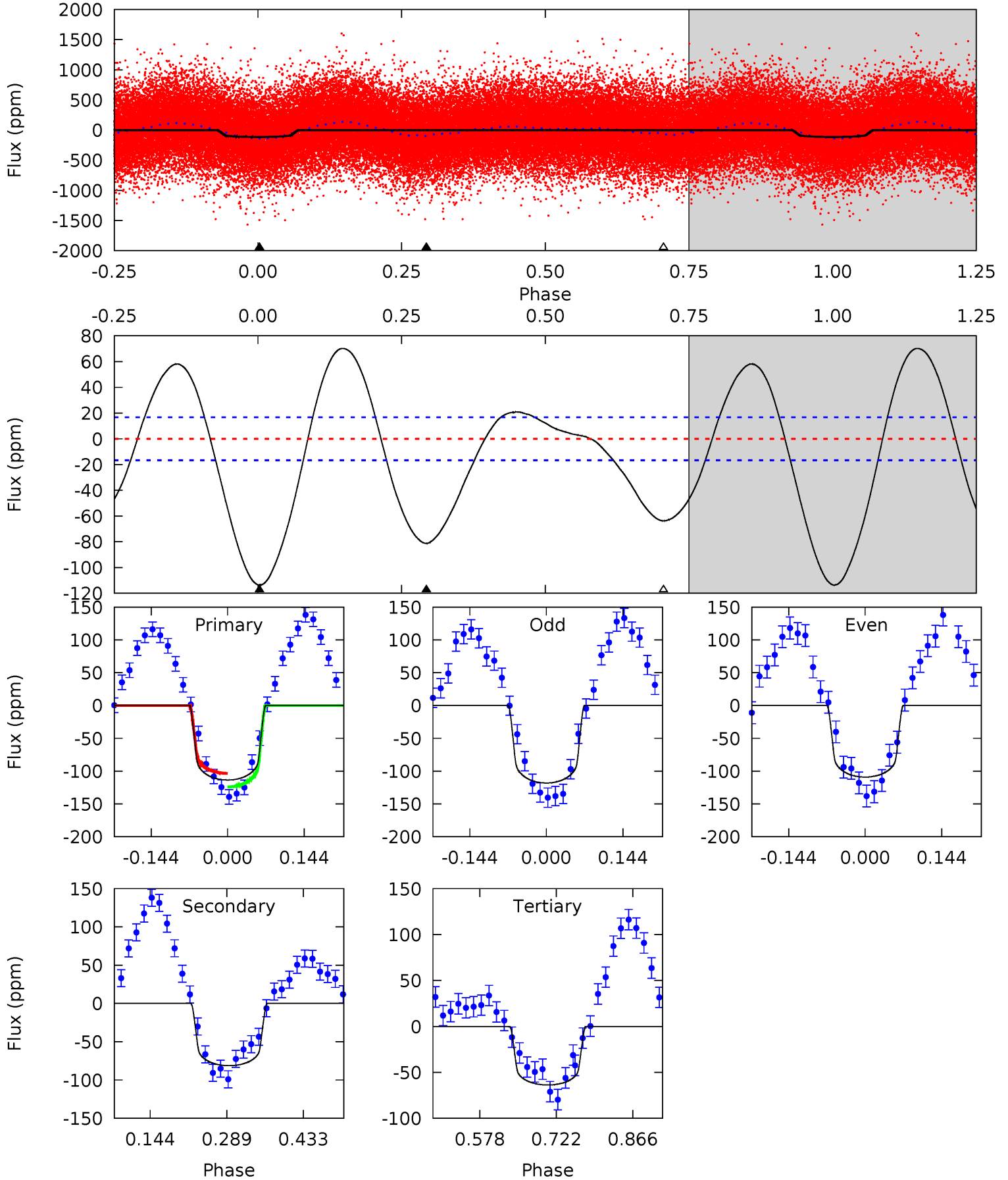
TCE 007467518-01 P= 1.711778 Days $T_0=133.000128$ (BKJD)



DV Model-Shift Uniqueness Test

007467518-01, P = 1.711766 Days, E = 131.287612 Days

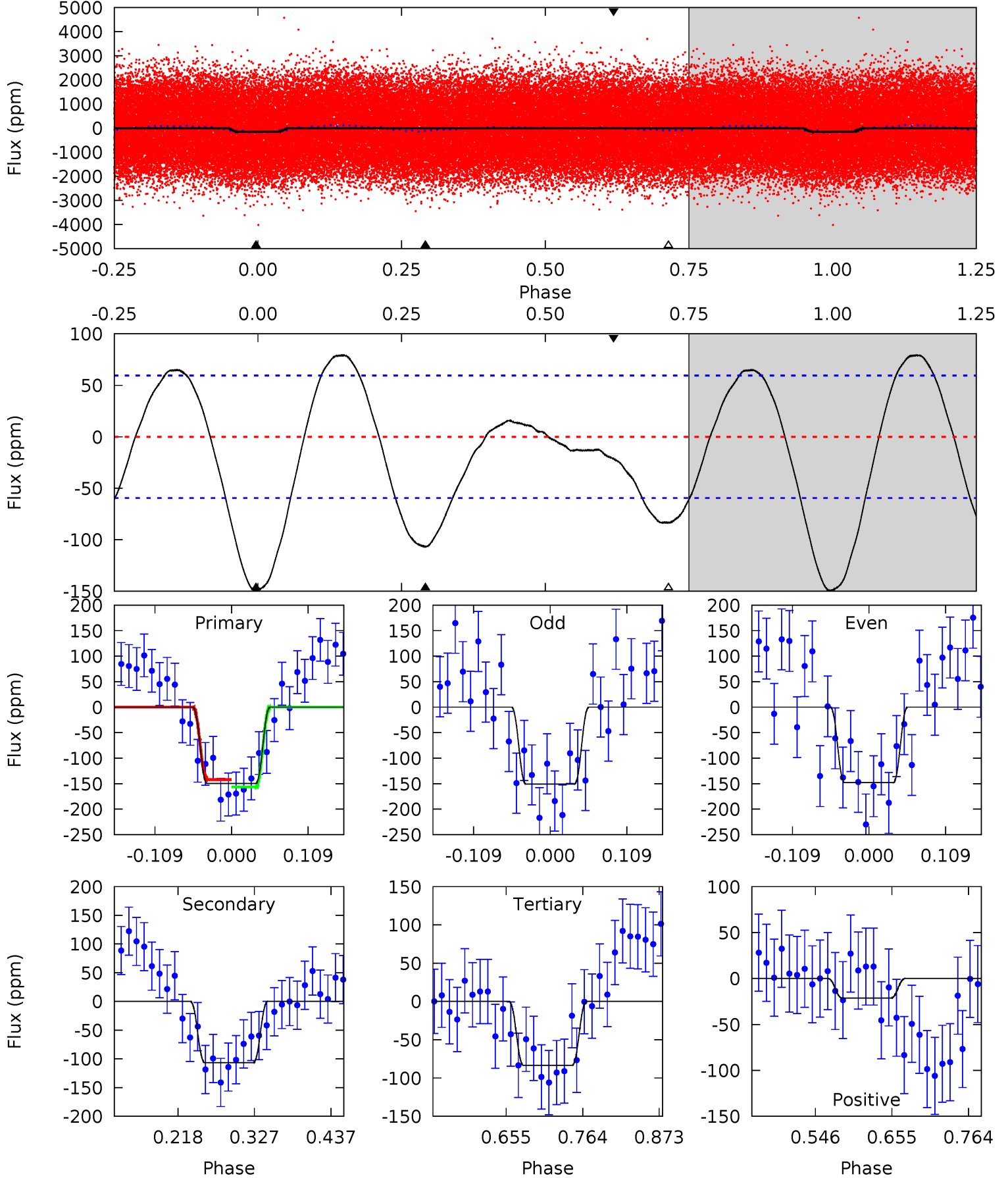
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.5	21.8	17.1	0	4.49	1.46	9.11	13.4	30.5	4.70	21.8	1.22	0.98	0.38	2.75



Alt Model-Shift Uniqueness Test

007467518-01, P = 1.711778 Days, E = 131.288350 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.4	8.16	6.38	-1.63	4.55	1.60	3.63	5.04	13.1	1.78	9.79	0.10	1.08	0.35	0.55



Stellar Parameters For KIC 007467518

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7663^{+214}_{-322}	$3.856^{+0.287}_{-0.123}$	$0.000^{+0.200}_{-0.350}$	$2.726^{+0.446}_{-0.967}$	$1.945^{+0.110}_{-0.439}$	$0.135^{+0.297}_{-0.043}$
	+3%/-4%	+7%/-3%	+inf%/-inf%	+16%/-35%	+6%/-23%	+220%/-32%
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 007467518-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-81 ± 4	$2.20^{+0.66}_{-0.56}$	4116^{+275}_{-364}	8254^{+1488}_{-991}	11^{+8}_{-4}
Alt.	-107 ± 13	$3.72^{+0.80}_{-0.77}$	4086^{+316}_{-347}	6552^{+619}_{-496}	$5.069^{+2.875}_{-1.612}$

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

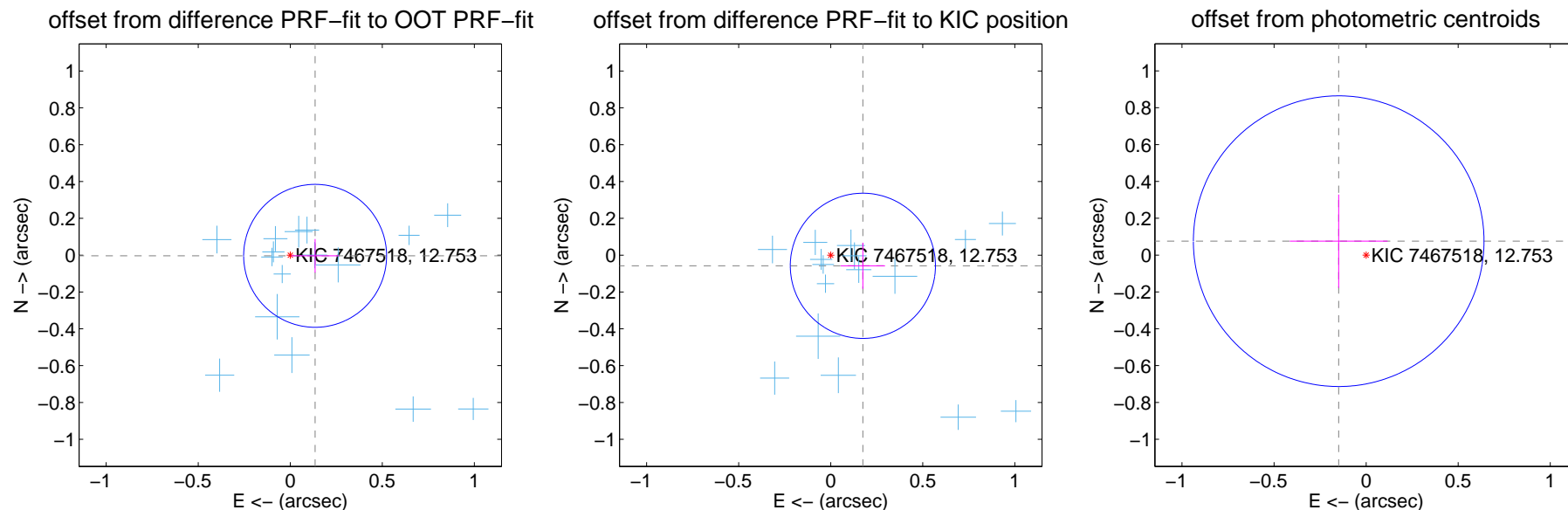
DV Centroid Data

Supplemental centroid analysis for 007467518-01. Kepler magnitude: 12.75. Transit SNR 9.56

There are 17 quarters with good PRF difference image offsets

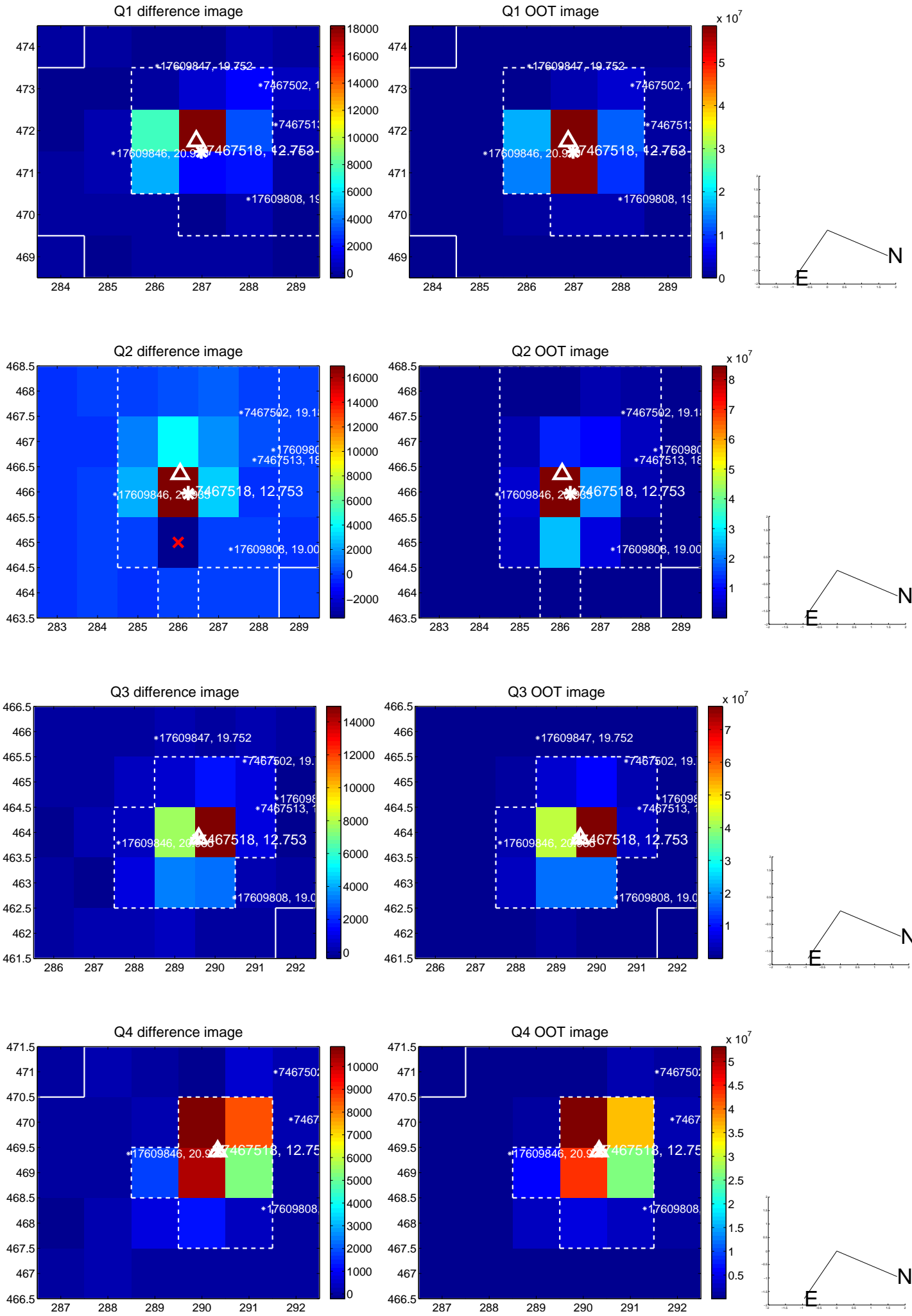
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.135 ± 0.129	1.04	-0.135 ± 0.129	-0.004 ± 0.092
PRF-fit source offset from KIC position	0.184 ± 0.131	1.40	-0.175 ± 0.121	-0.058 ± 0.125
photometric centroid source offset	0.17 ± 0.26	0.64	0.15 ± 0.27	0.08 ± 0.25

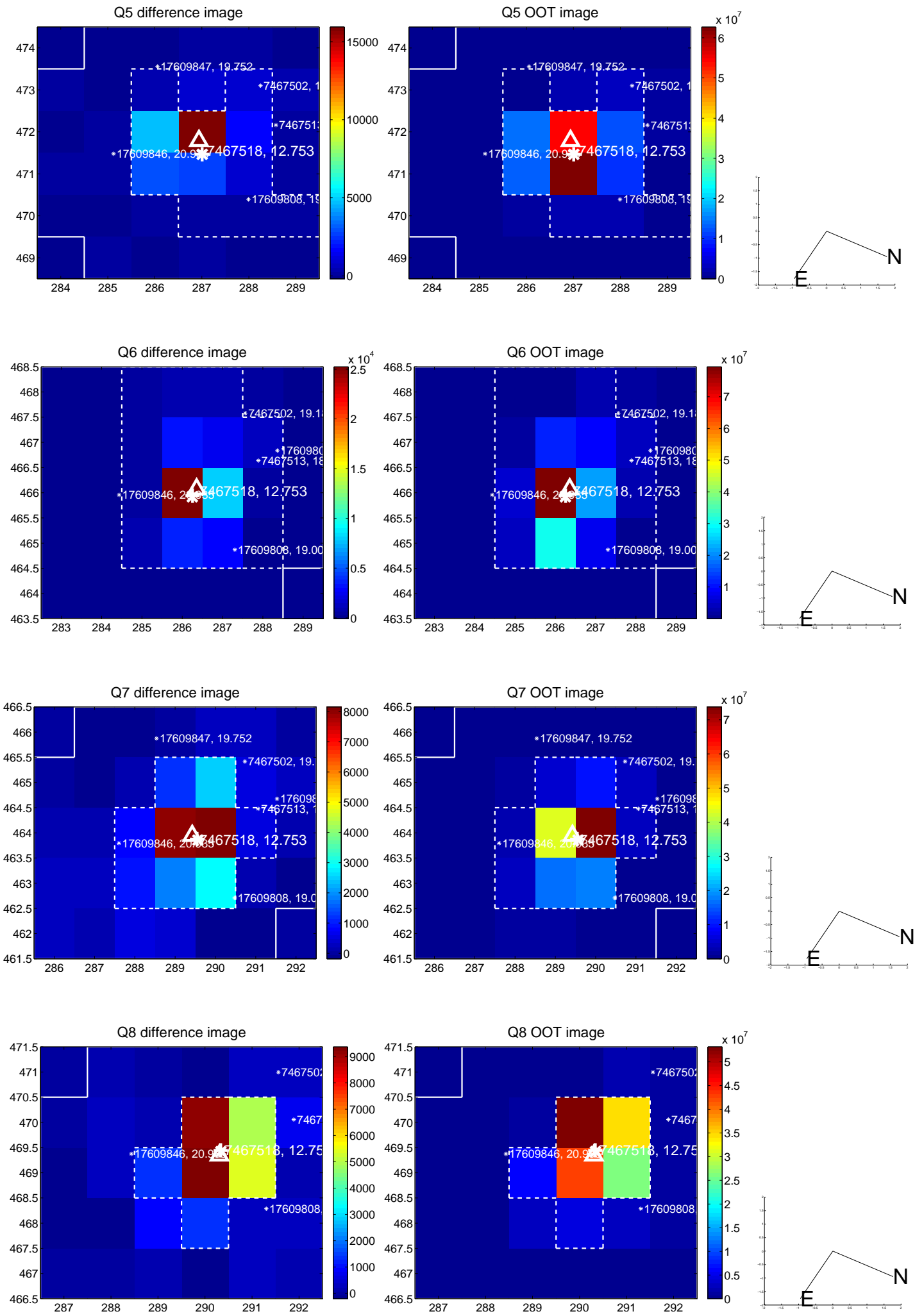


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

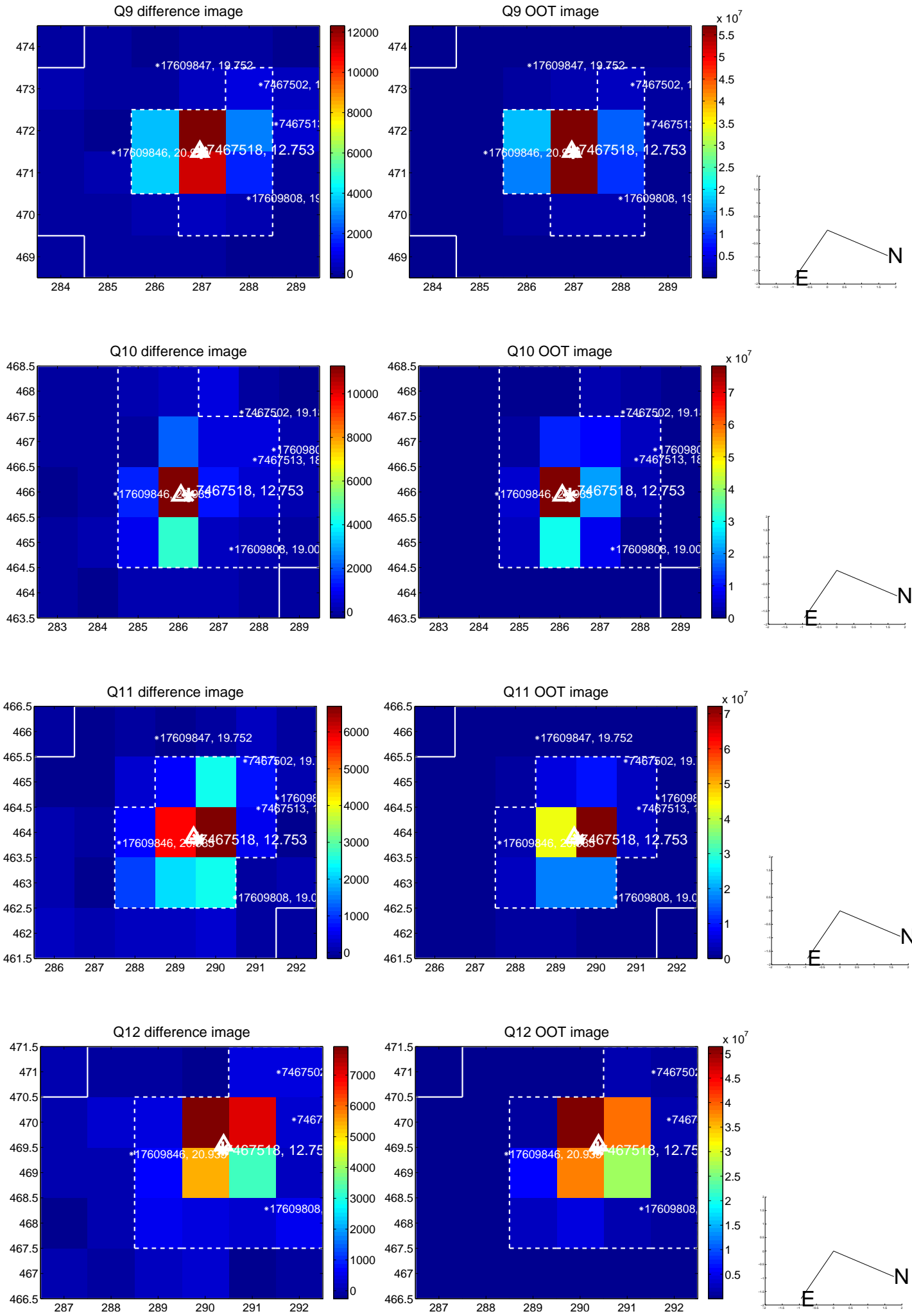
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



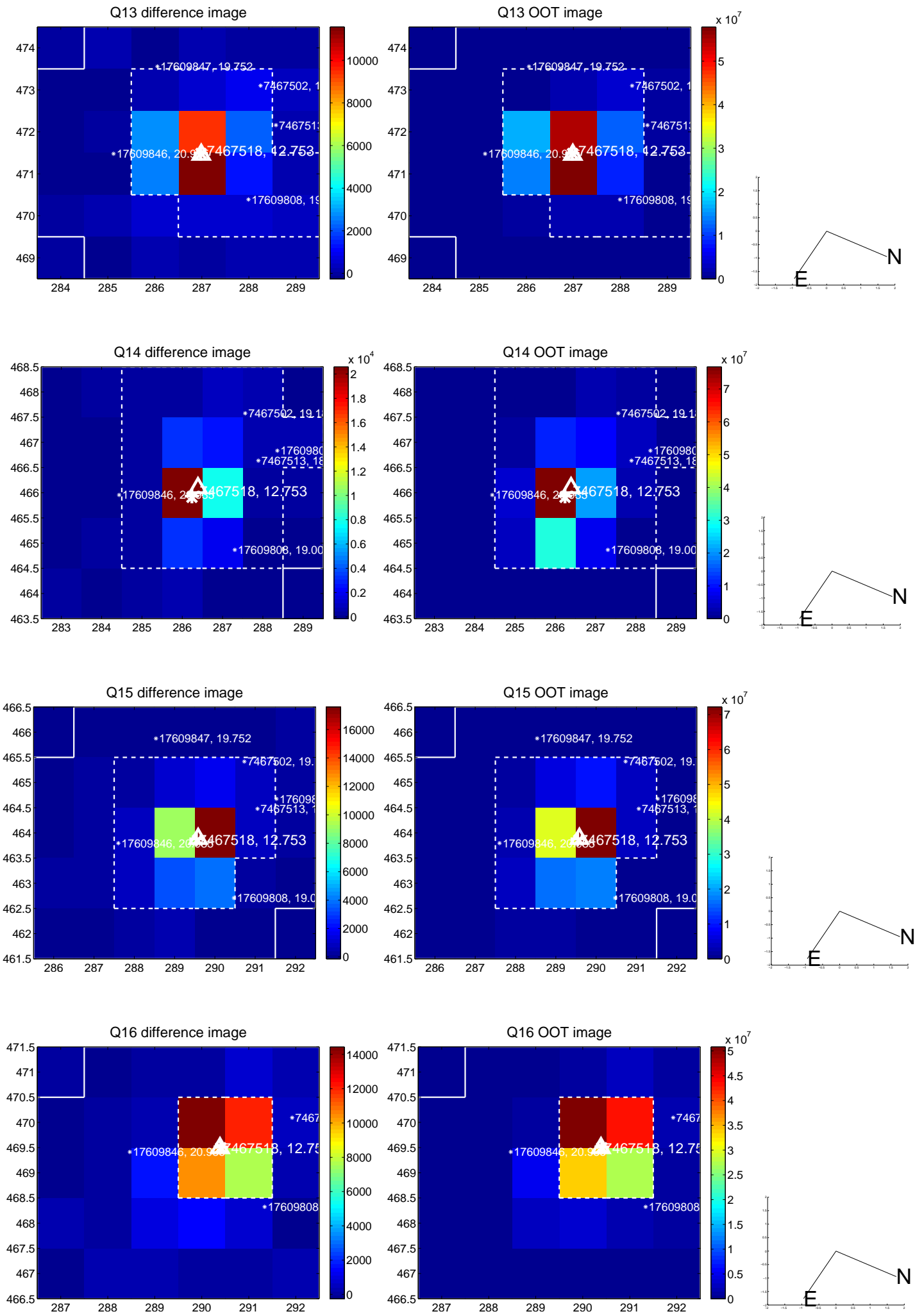
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



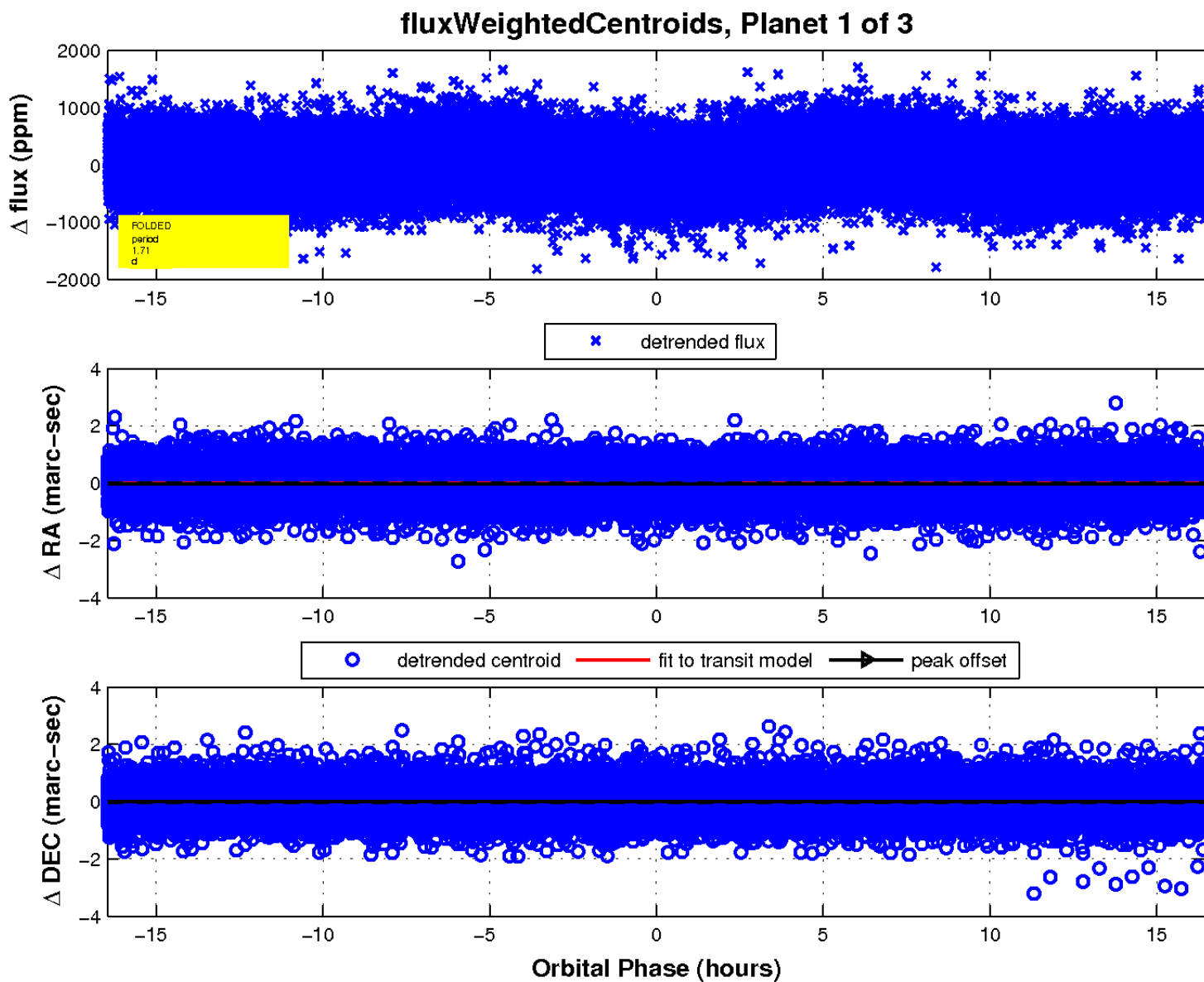
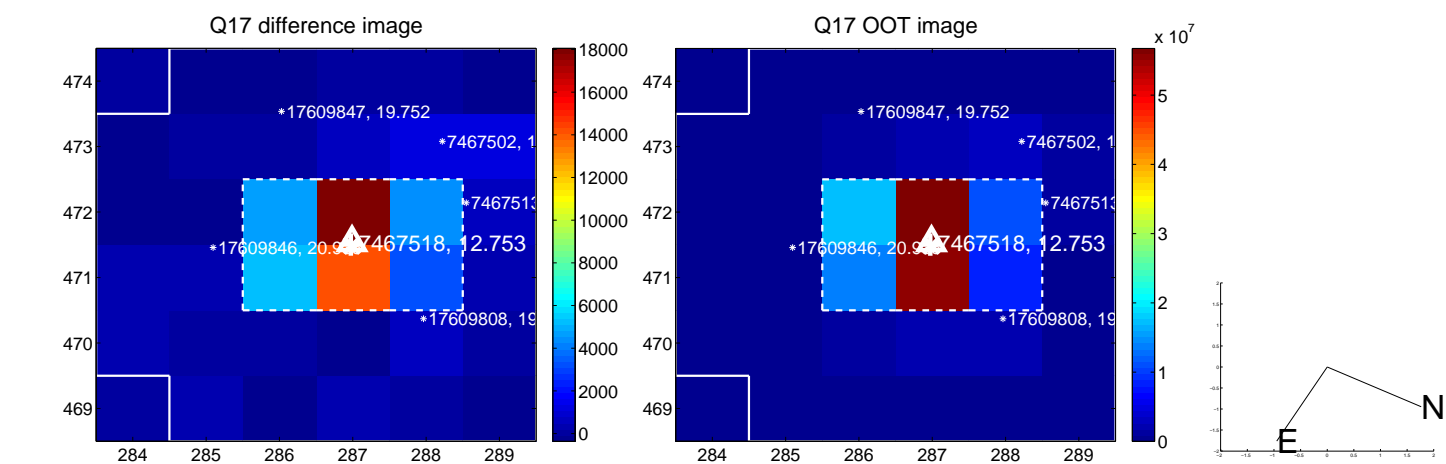
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

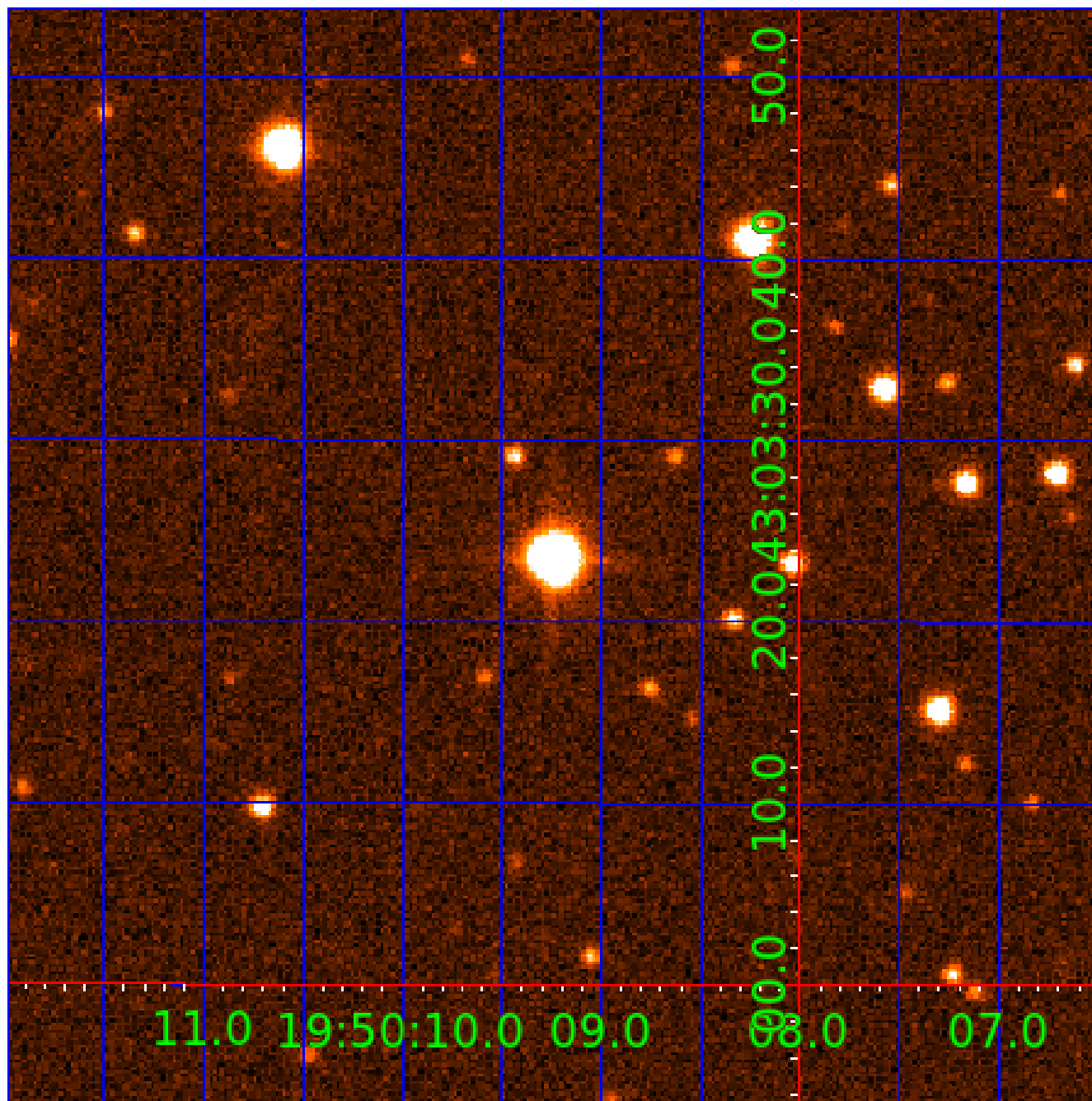


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007467518

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})
007467518-01	OBS	No	1.711766	132.999378	55.7	5.486	9.1	9.6	2.73	7663	2.36	18775.04
007467518-02	OBS	No	4.032674	135.355788	113.7	3.771	7.6	9.1	2.73	7663	3.37	5989.39
007467518-03	OBS	No	227.497501	138.726102	885.3	3.260	7.4	8.3	2.73	7663	9.07	27.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007467518-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007467518-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007467518-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

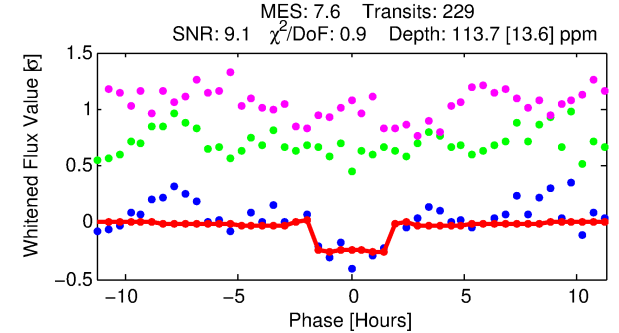
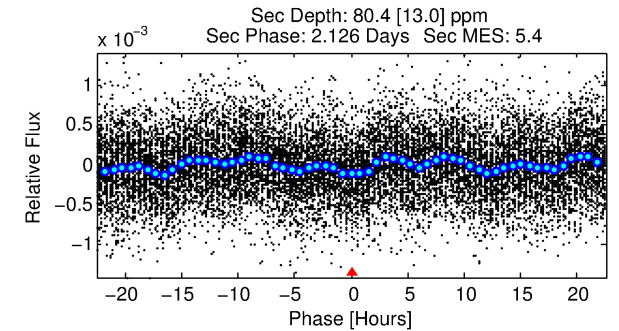
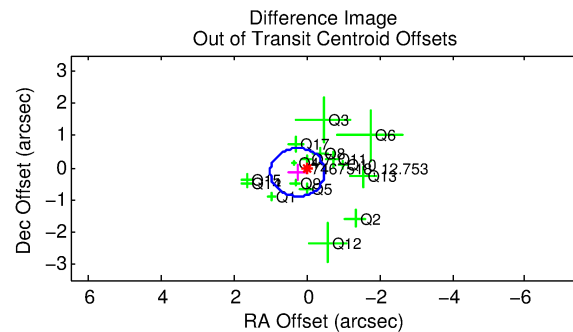
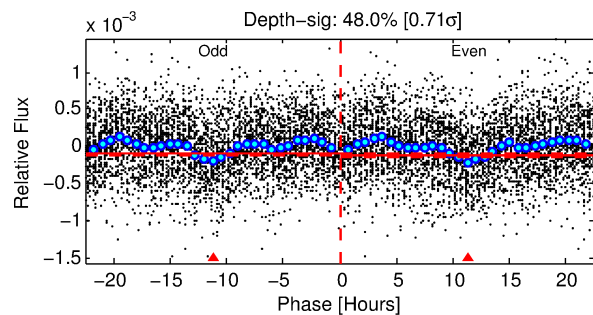
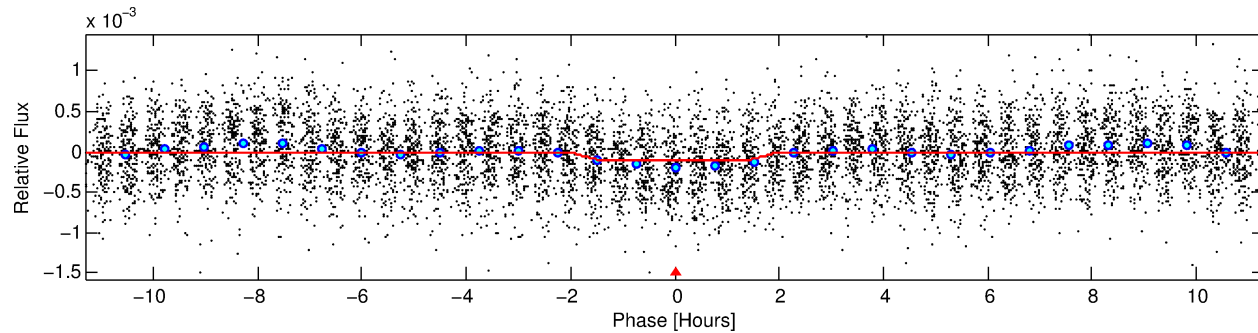
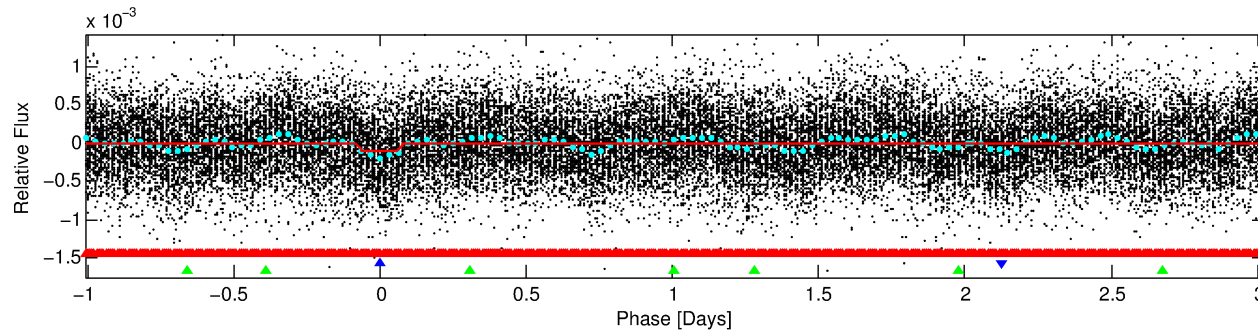
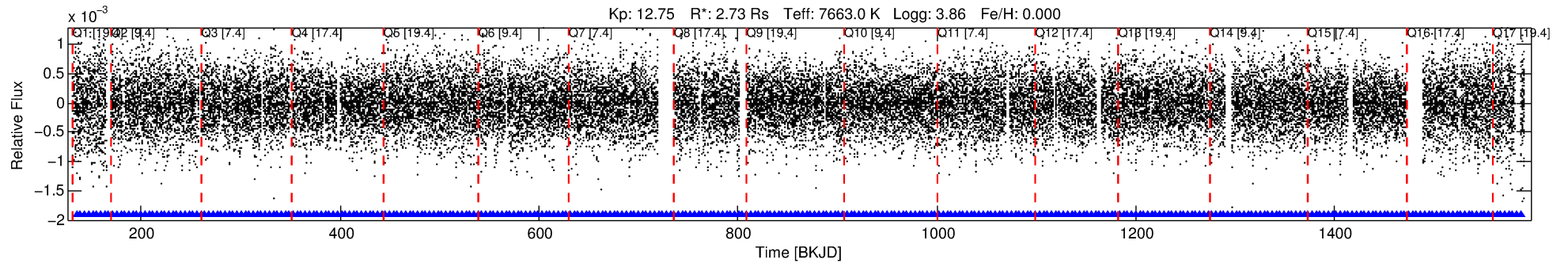
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007467518-02

No Significant Match Found

DV One-Page Summary

KIC: 7467518 Candidate: 2 of 3 Period: 4.033 d



DV Fit Results:

Period = 4.03267 [0.00003] d
Epoch = 135.3558 [0.0049] BKJD
Rp/R* = 0.0113 [0.0029]
a/R* = 3.88 [5.69]
b = 0.90 [0.33]
Seff = 5989.39 [3159.49]
Teq = 2243 [296] K
Rp = 3.37 [1.47] Re
a = 0.0619 [0.0200] AU
Ag = 14.92 [10.89] [1.28σ]
Teffp = 6816 [951] K [4.59σ]

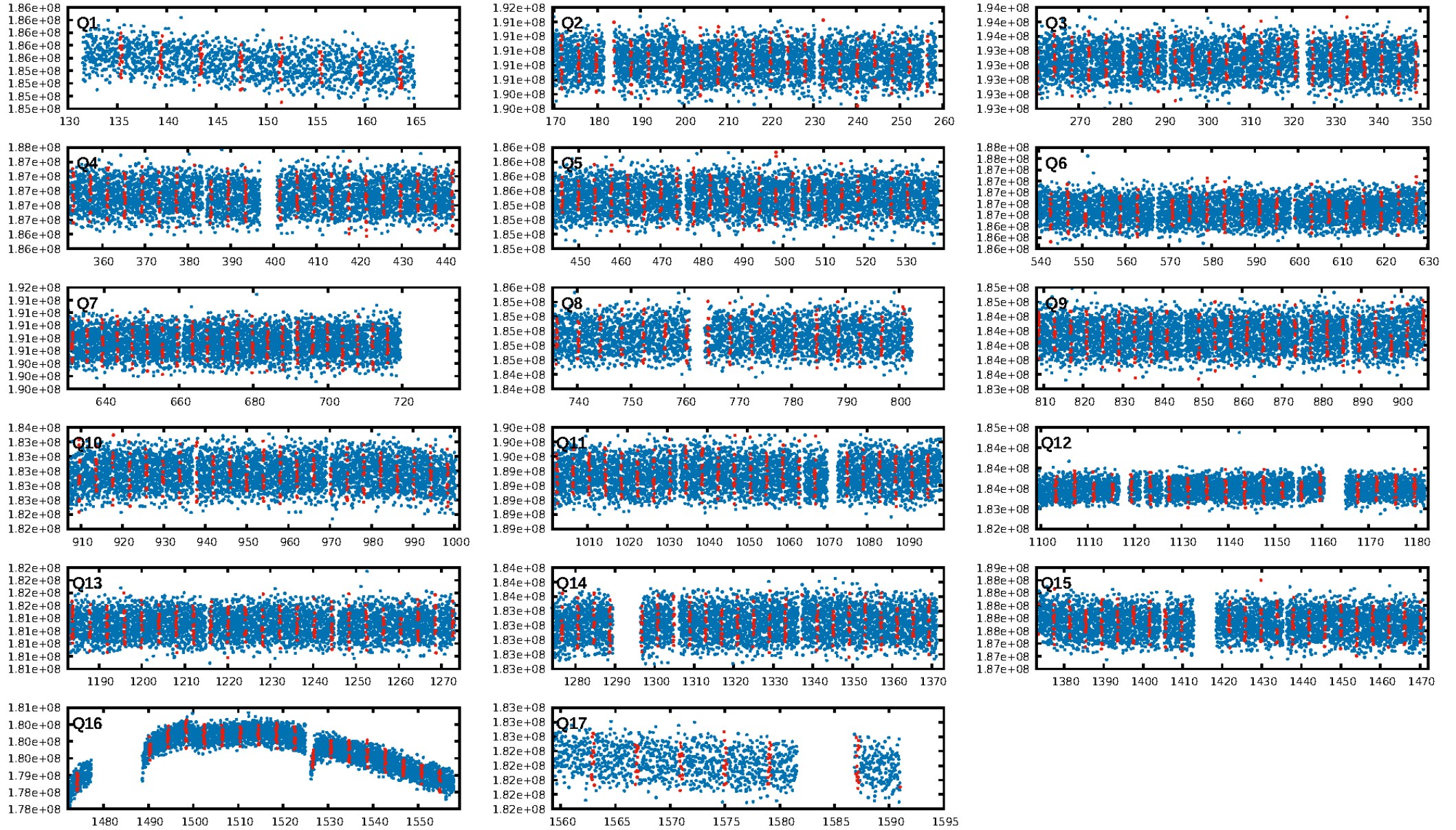
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [8.37σ]
LongPeriod-sig: 100.0% [1075.93σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.56e-13
RollingBand-fgt: 1.00 [219/219]
GhostDiagnostic-chr: 3.111
Centroid-sig: 0.2%
Centroid-so: 0.541 arcsec [2.34σ]
OotOffset-rm: 0.294 arcsec [1.18σ]
KicOffset-rm: 0.301 arcsec [1.19σ]
OotOffset-st: 4/4/3/5 [16]
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DiffImageQuality-fgm: 0.81 [13/16]
DiffImageOverlap-fno: 1.00 [17/17]

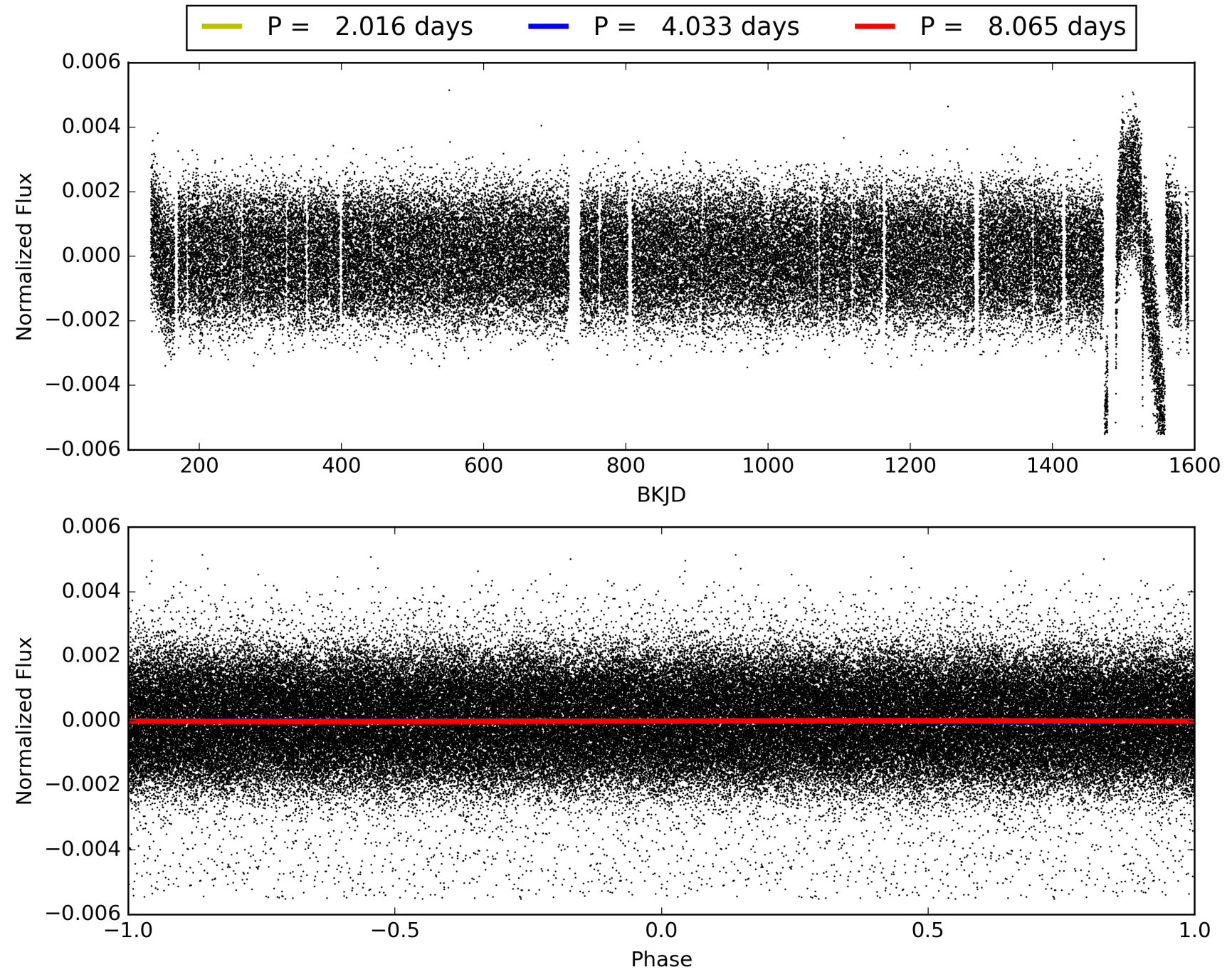
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 12:24:49 Z

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

TCE 007467518-02, PDC Light Curves

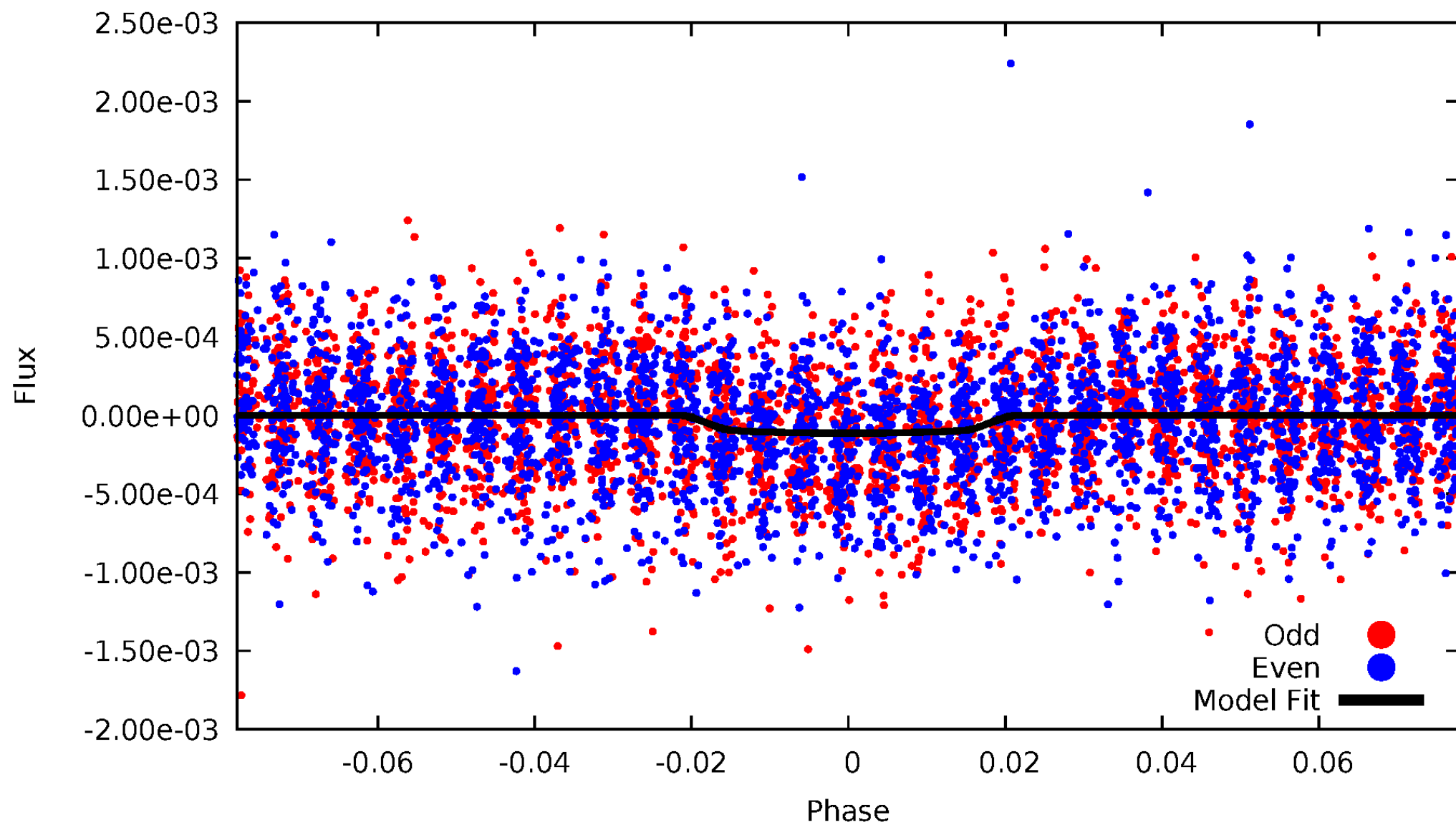


TCE 007467518-02



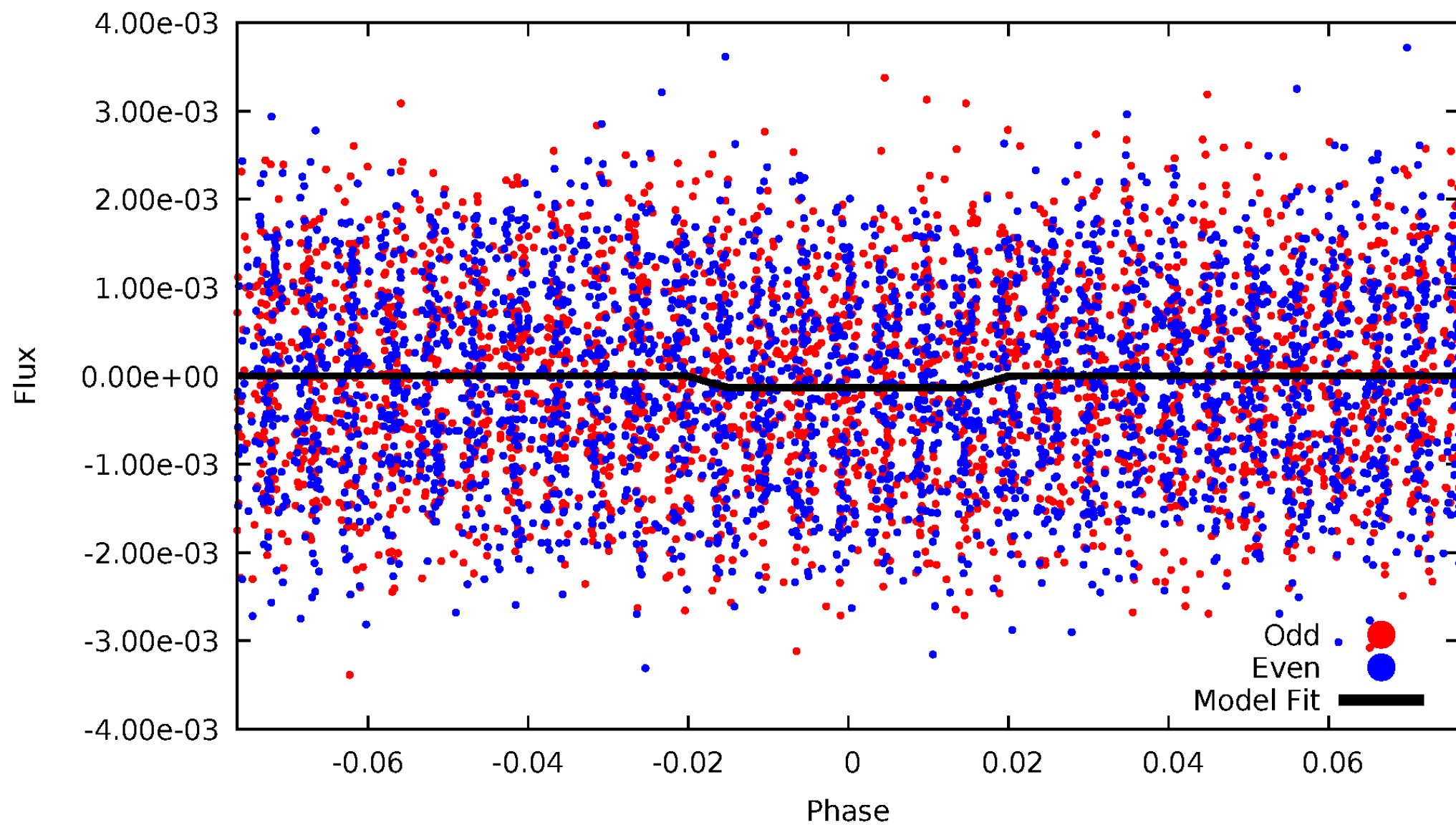
DV Odd/Even

TCE 007467518-02



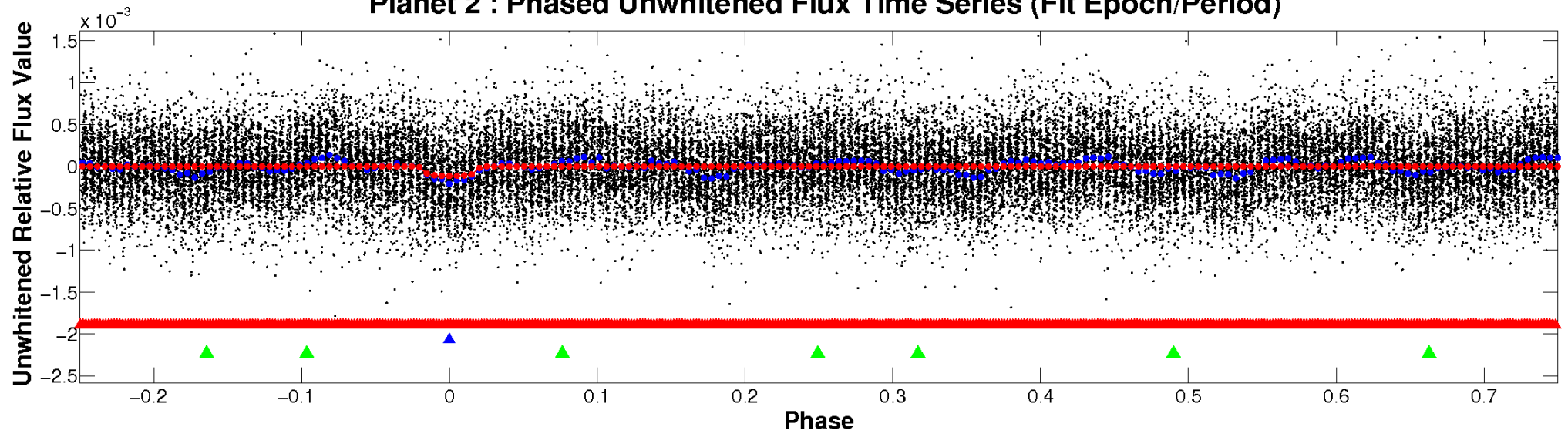
ALT Odd/Even

TCE 007467518-02

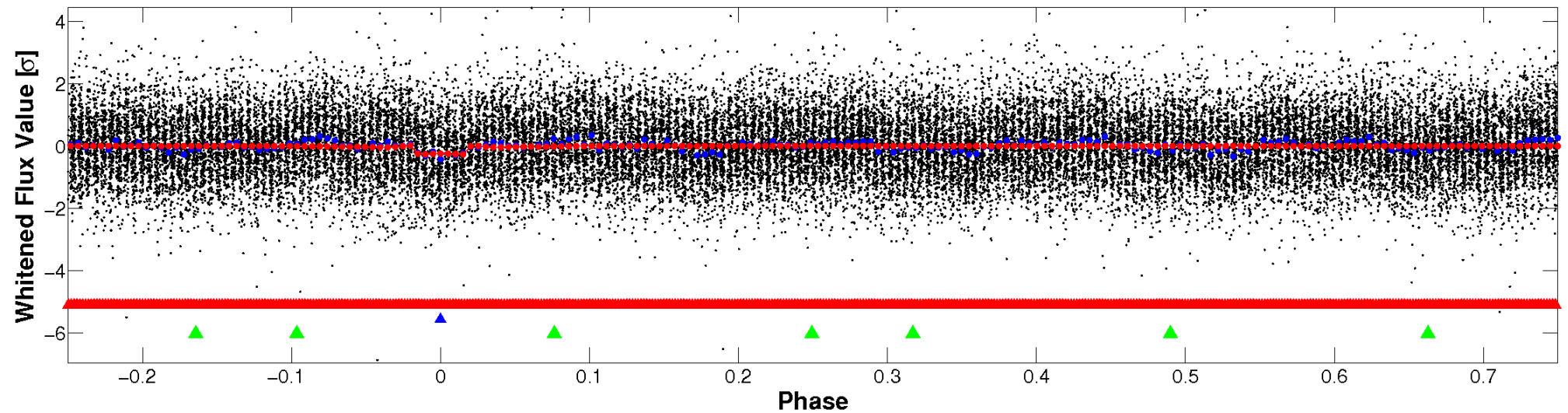


Non-Whitened Vs. Whitened Light Curve

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

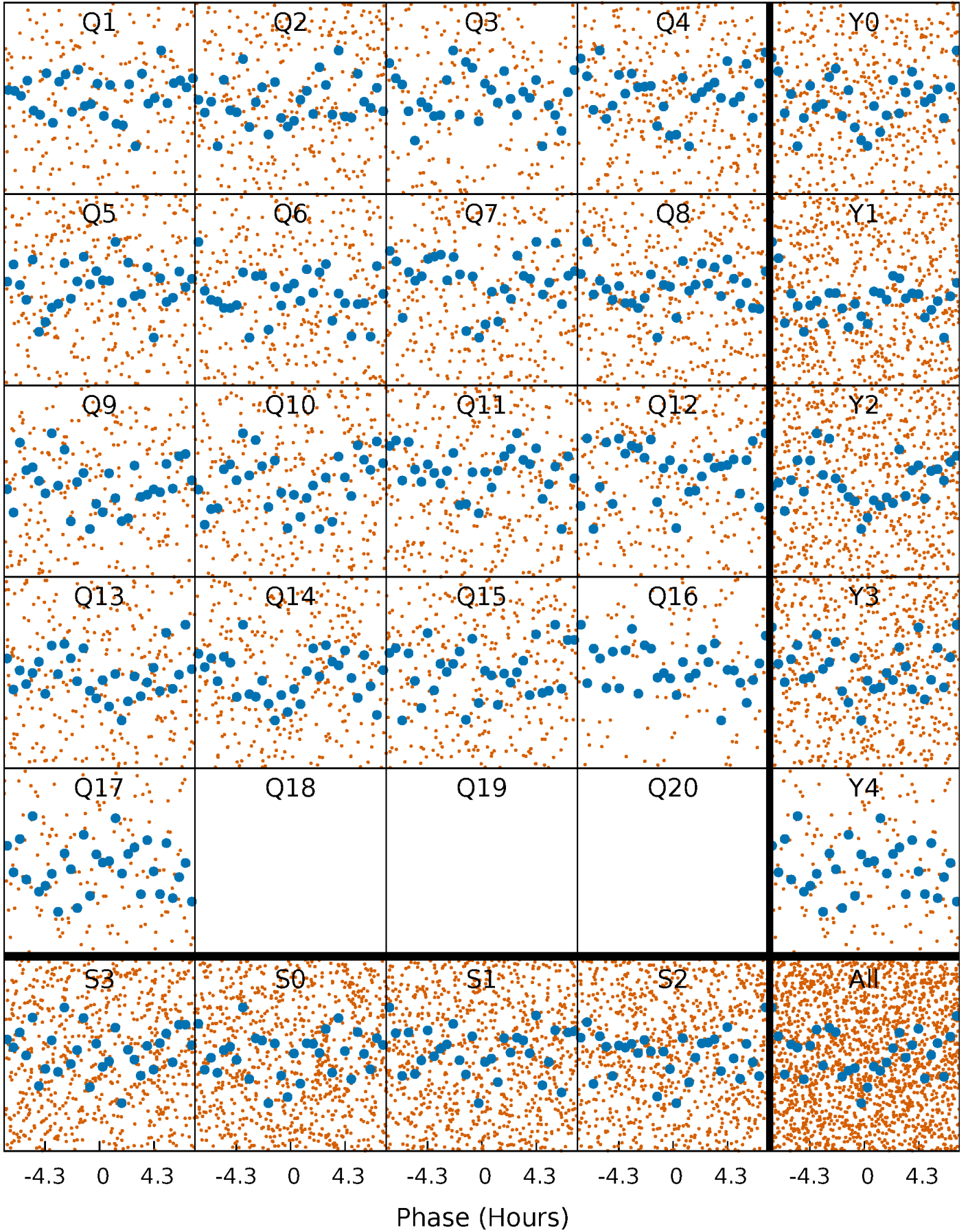


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



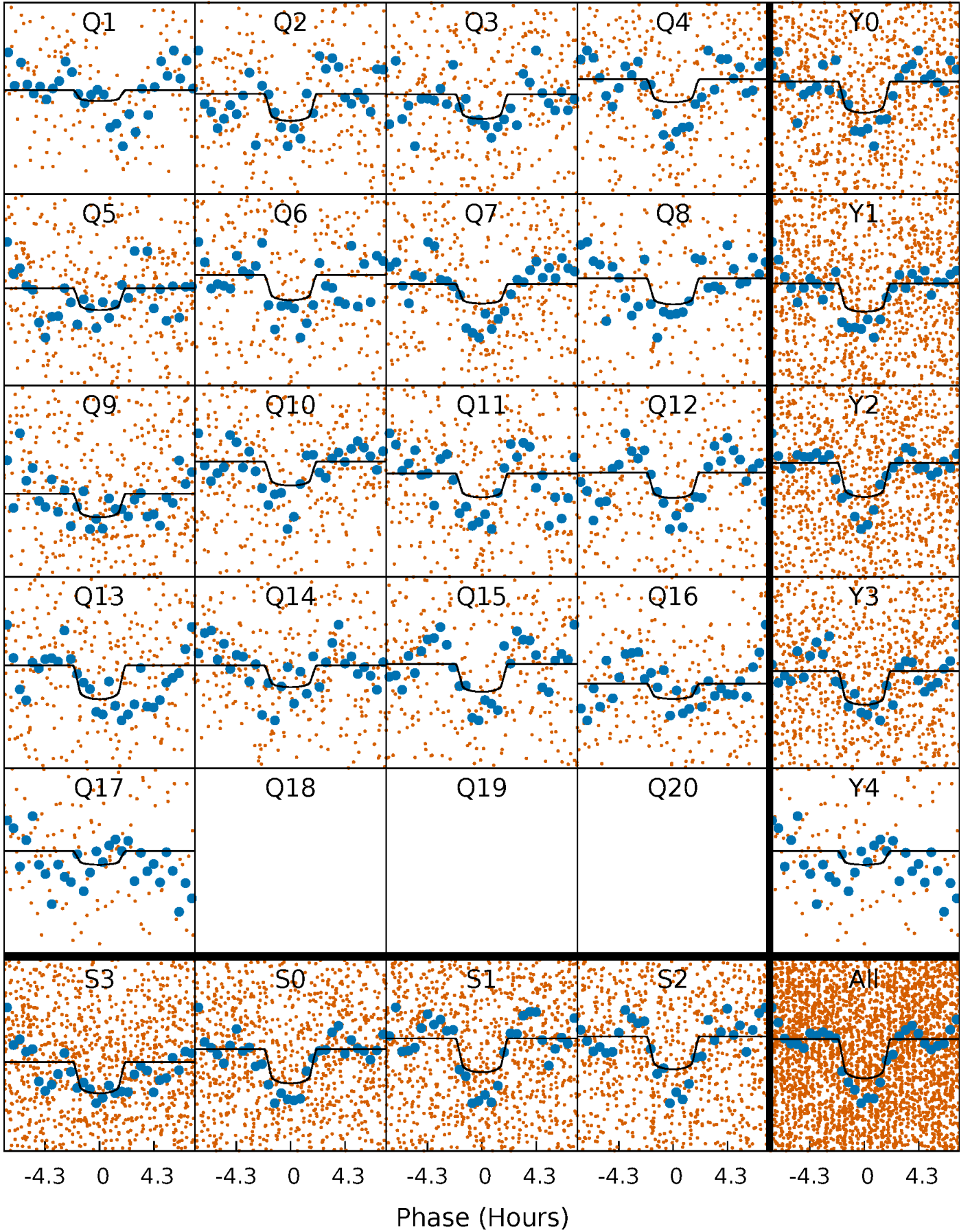
PDC Quarter-Phased Transit Curves

TCE 007467518-02 P= 4.032674 Days $T_0=135.355788$ (BKJD)



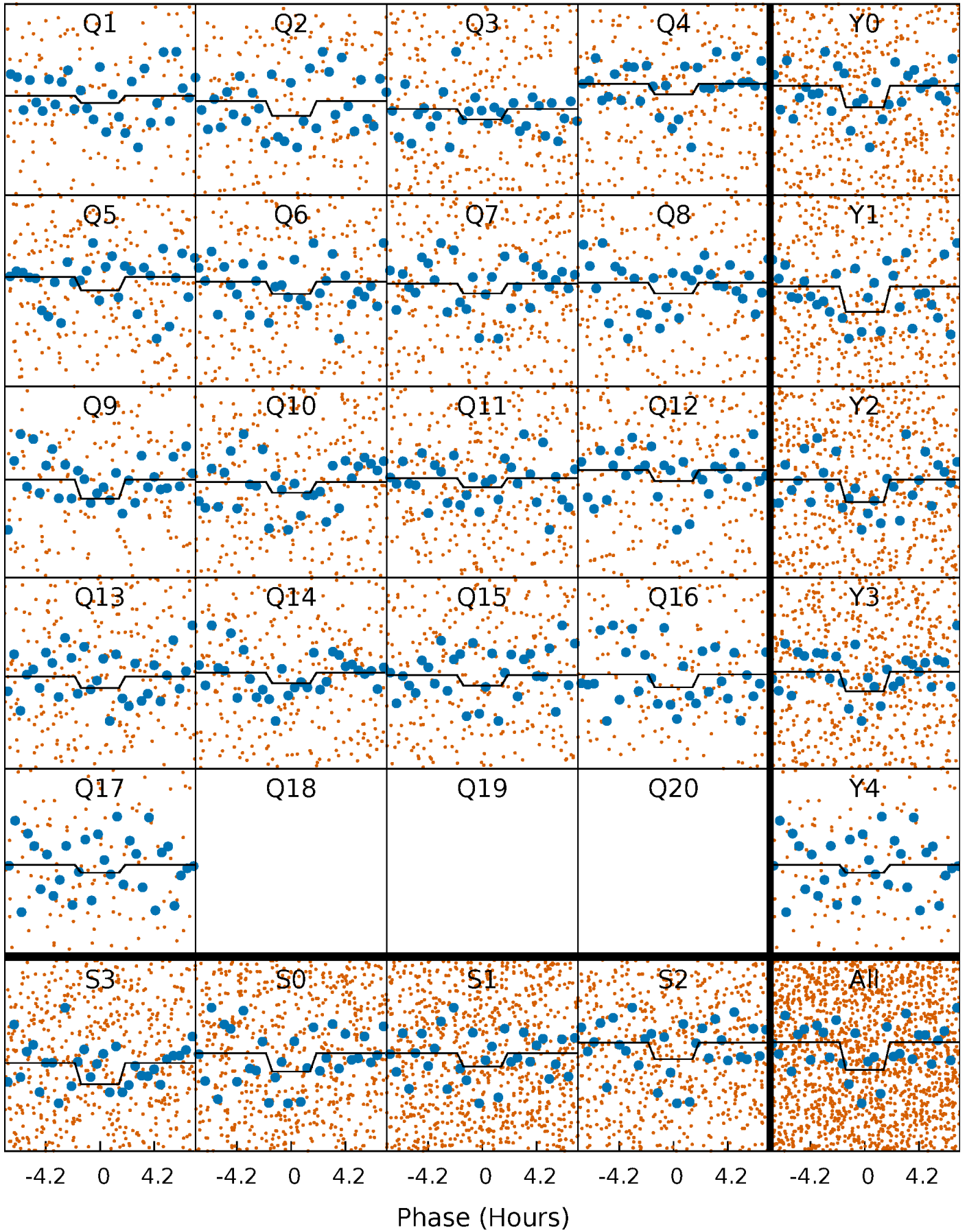
DV Quarter-Phased Transit Curves

TCE 007467518-02 P= 4.032674 Days $T_0=135.355788$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

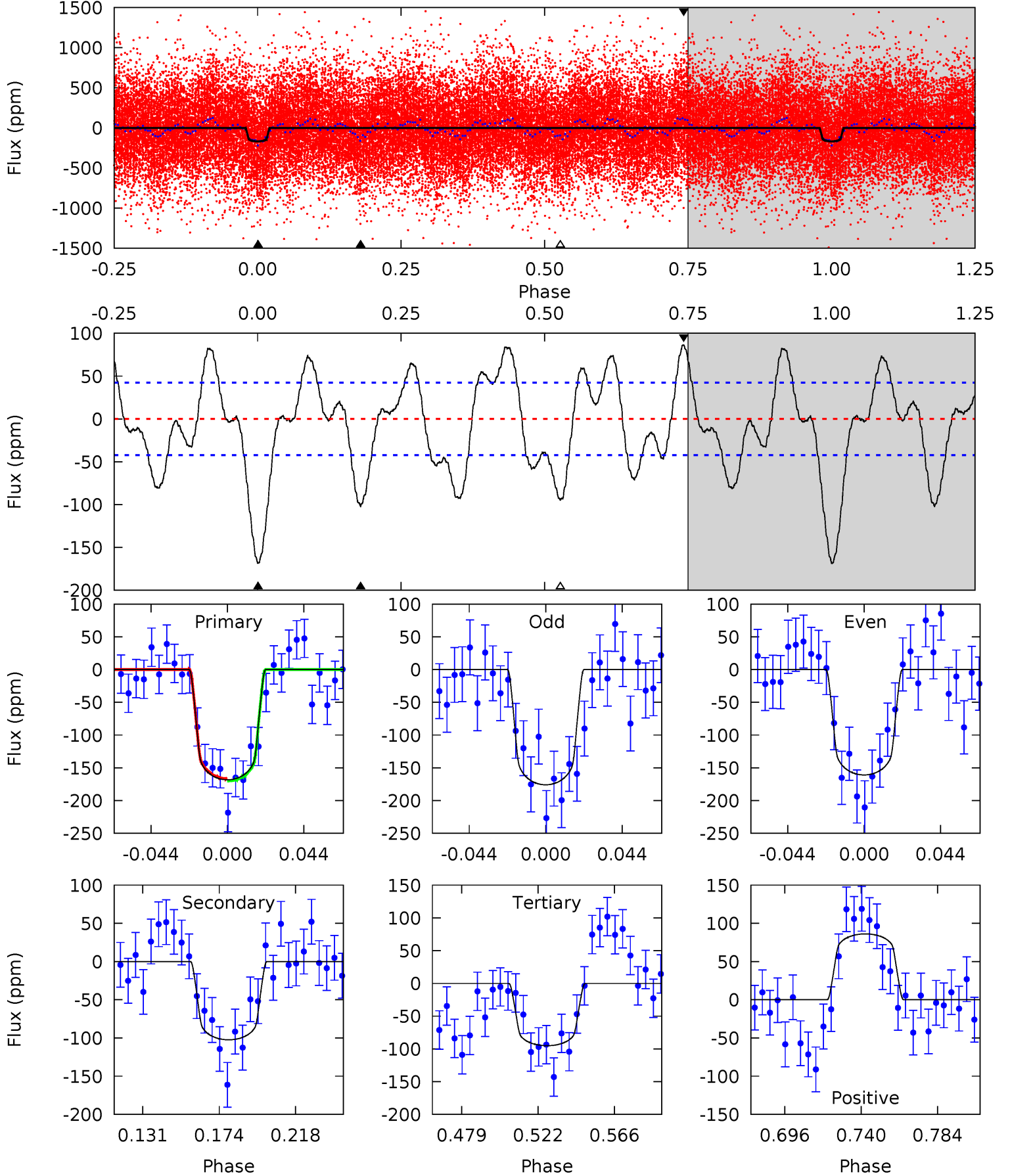
TCE 007467518-02 P= 4.032667 Days $T_0=135.356971$ (BKJD)



DV Model-Shift Uniqueness Test

007467518-02, P = 4.032674 Days, E = 131.323114 Days

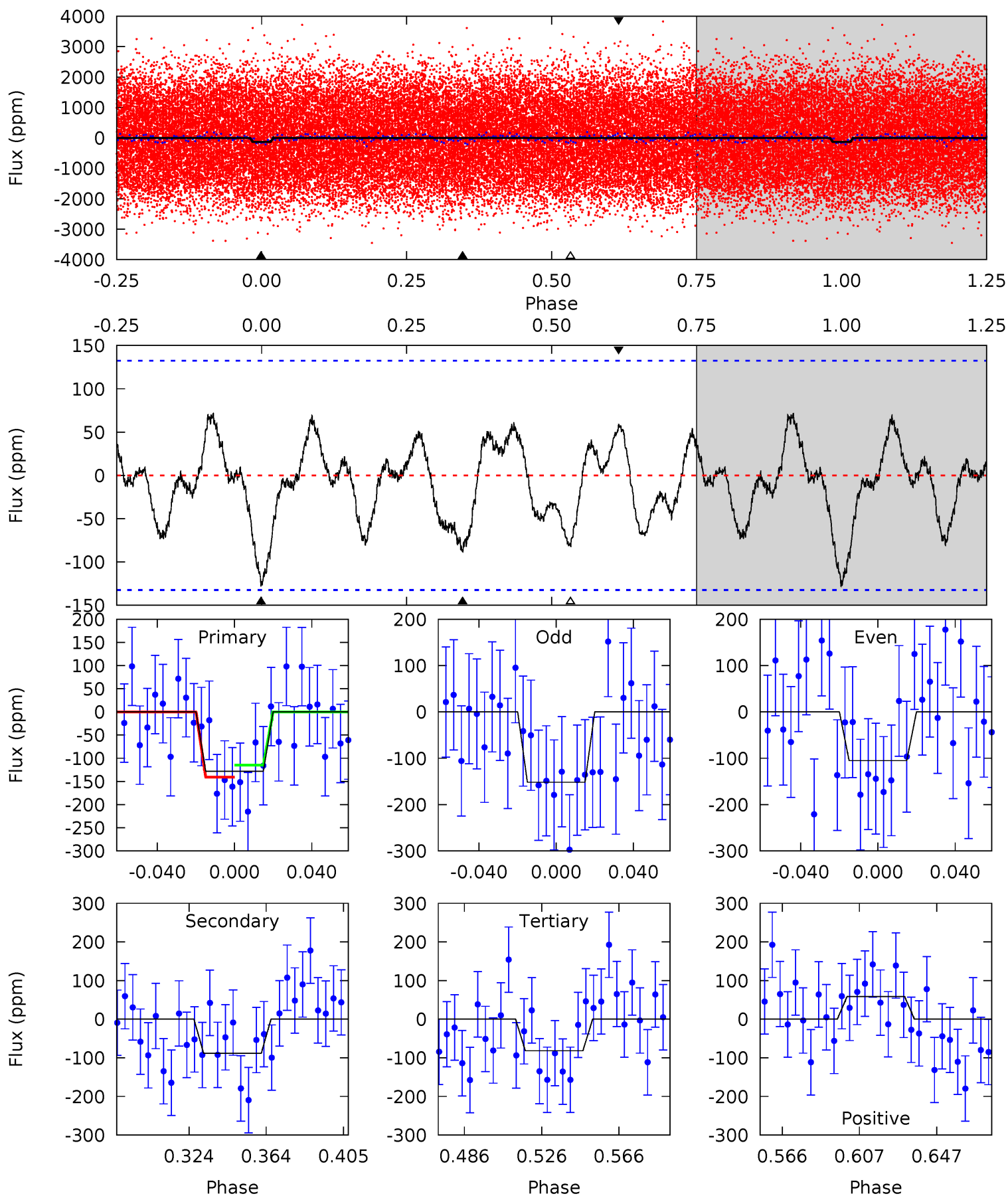
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.9	11.5	10.7	9.66	4.74	2.02	5.42	8.20	9.21	0.81	1.82	0.84	0.88	0.34	0.19



Alt Model-Shift Uniqueness Test

007467518-02, P = 4.032667 Days, E = 131.324304 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.60	3.17	2.93	2.10	4.75	2.05	1.31	1.67	2.50	0.24	1.07	0.84	0.86	0.36	0.46



Stellar Parameters For KIC 007467518

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7663^{+214}_{-322}	$3.856^{+0.287}_{-0.123}$	$0.000^{+0.200}_{-0.350}$	$2.726^{+0.446}_{-0.967}$	$1.945^{+0.110}_{-0.439}$	$0.135^{+0.297}_{-0.043}$
	+3%/-4%	+7%/-3%	+inf%/-inf%	+16%/-35%	+6%/-23%	+220%/-32%
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 007467518-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-102 ± 9	$3.15^{+1.10}_{-0.94}$	3077^{+217}_{-283}	7118^{+1481}_{-916}	21^{+22}_{-9}
Alt.	-88 ± 28	$3.27^{+0.96}_{-1.01}$	3099^{+219}_{-264}	6751^{+1404}_{-944}	17^{+19}_{-8}

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 $A_{obs} \gg 1.0$

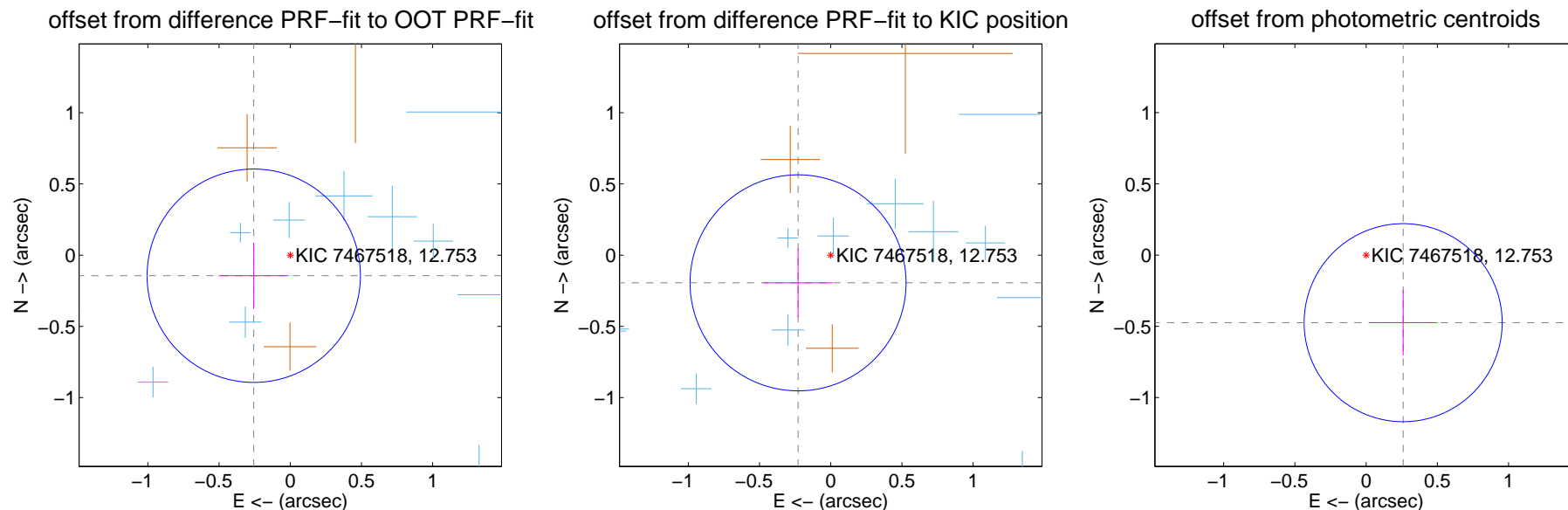
DV Centroid Data

Supplemental centroid analysis for 007467518-02. Kepler magnitude: 12.75. Transit SNR 9.15

There are 13 quarters with good PRF difference image offsets

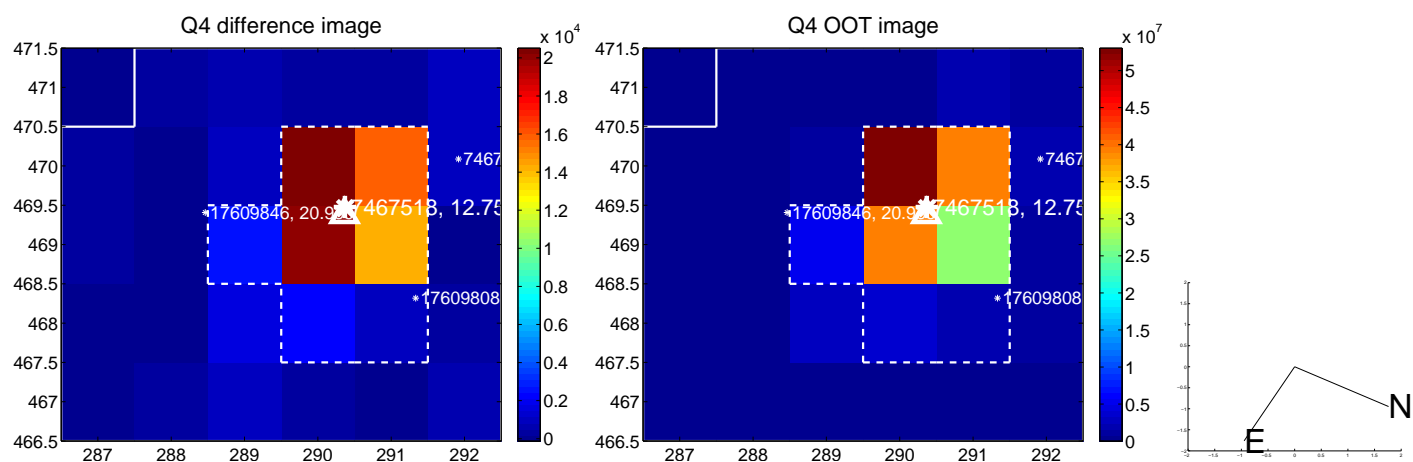
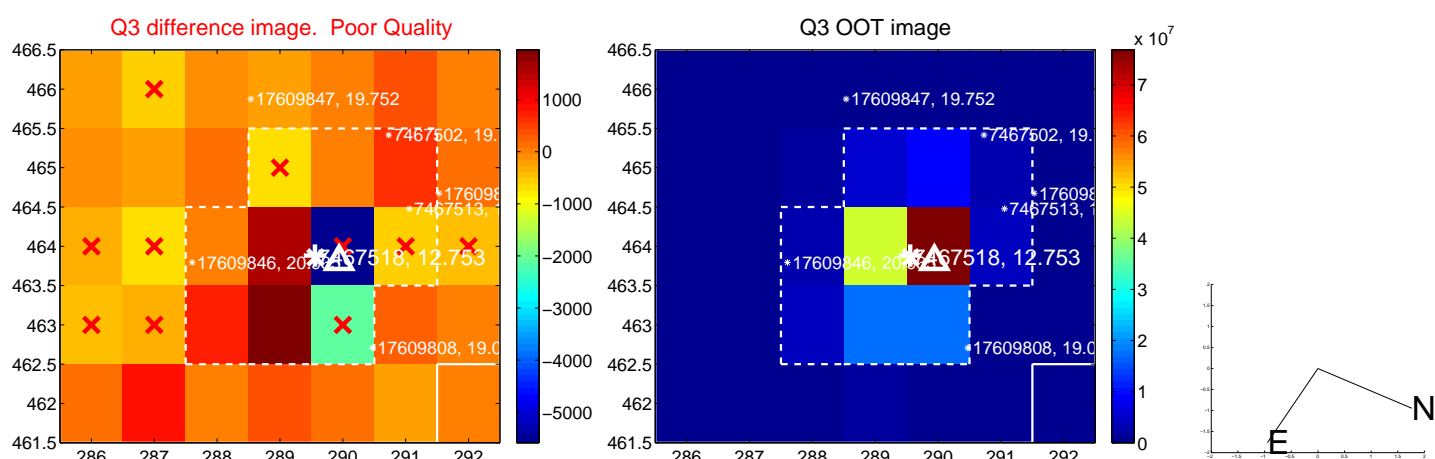
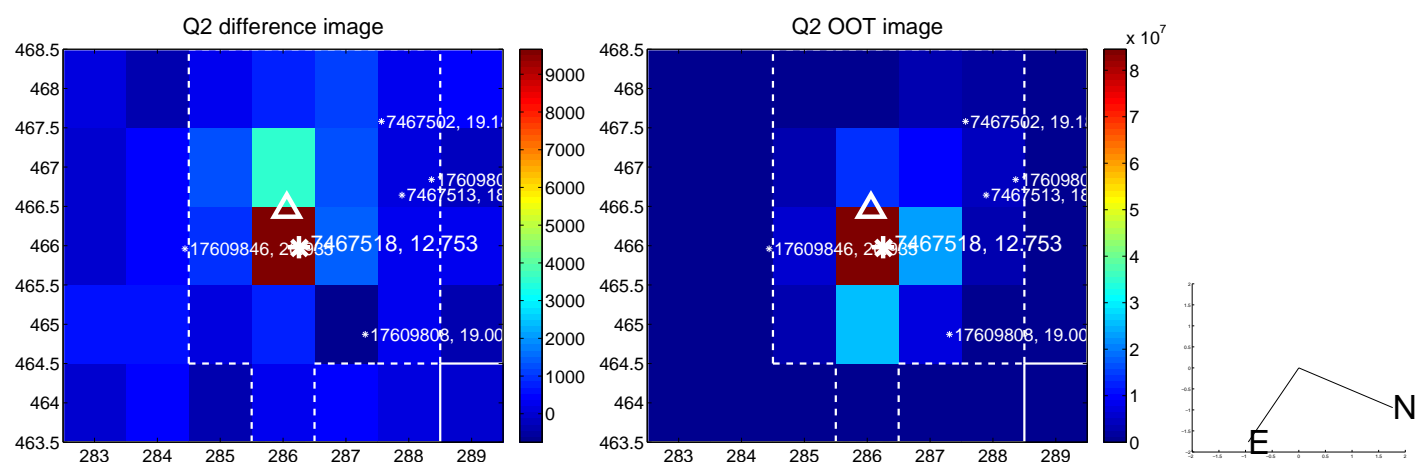
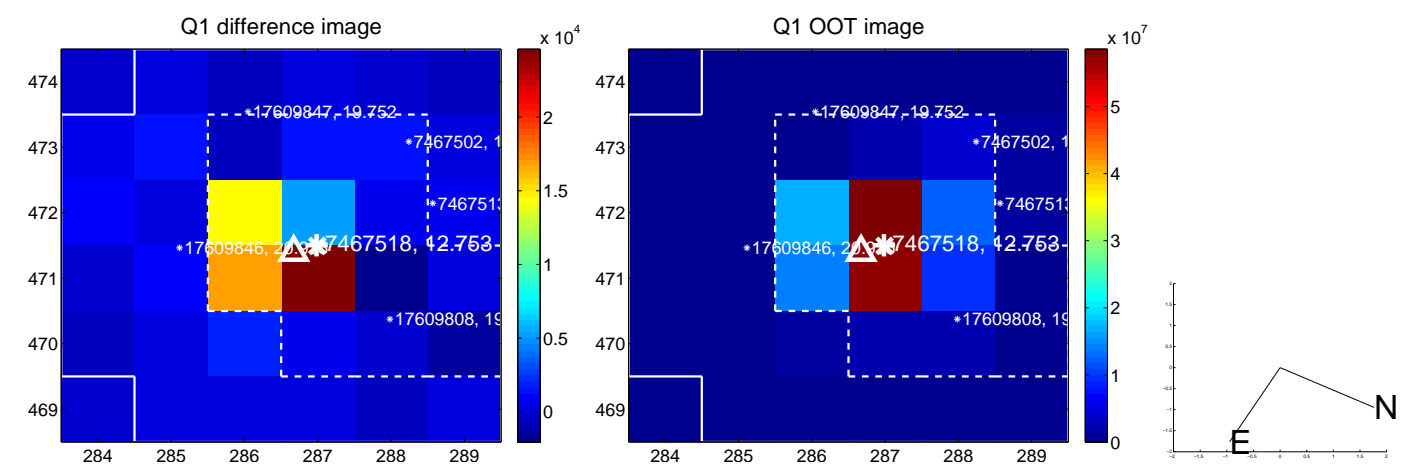
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.294 ± 0.250	1.18	0.256 ± 0.245	-0.144 ± 0.232
PRF-fit source offset from KIC position	0.301 ± 0.253	1.19	0.229 ± 0.243	-0.194 ± 0.242
photometric centroid source offset	0.54 ± 0.23	2.34	-0.26 ± 0.24	-0.47 ± 0.23

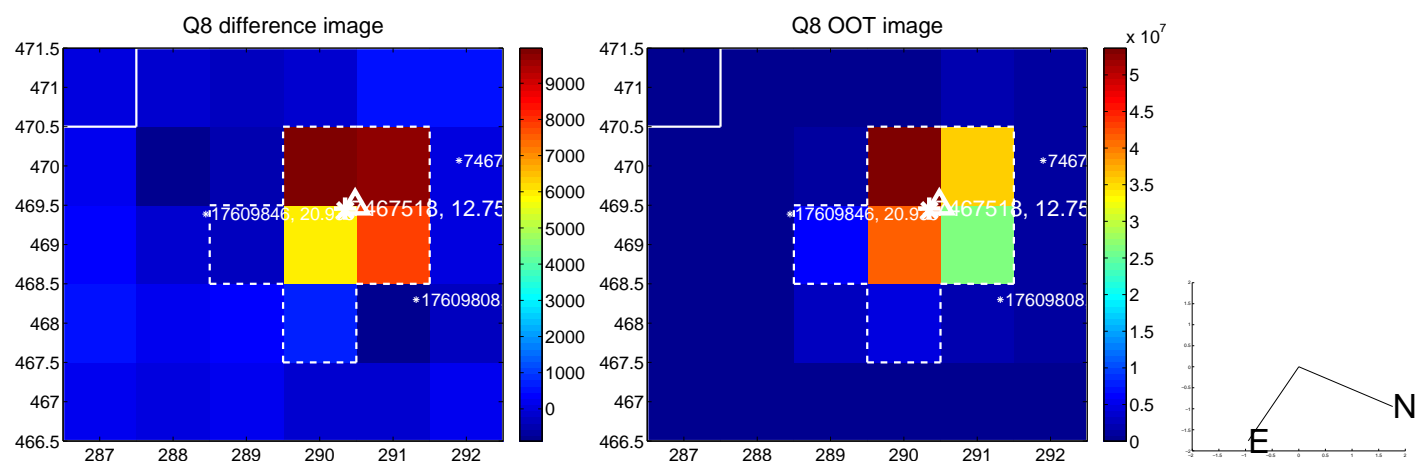
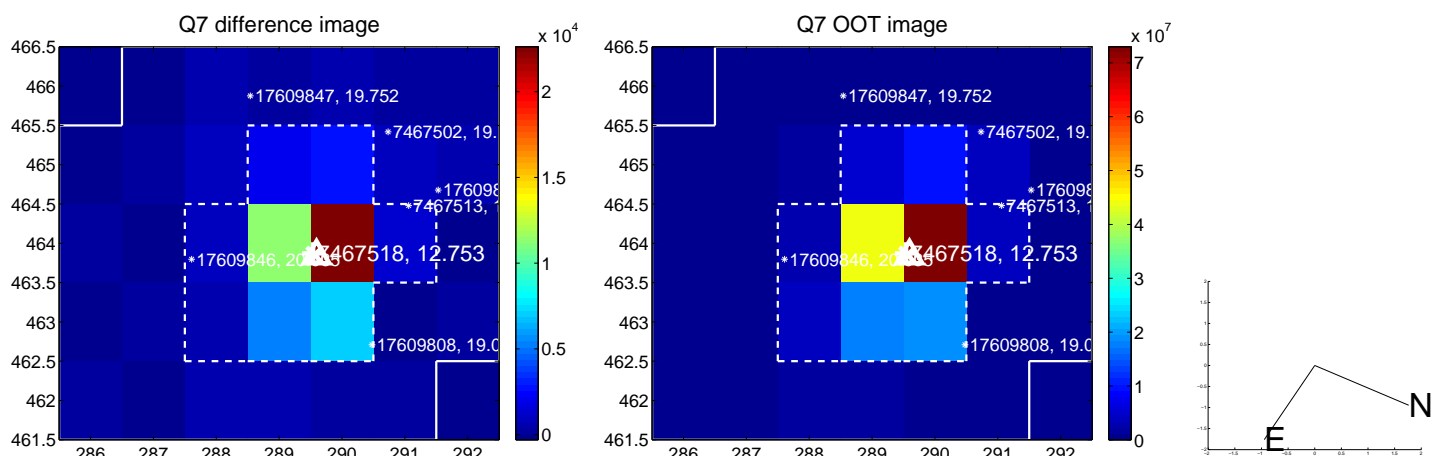
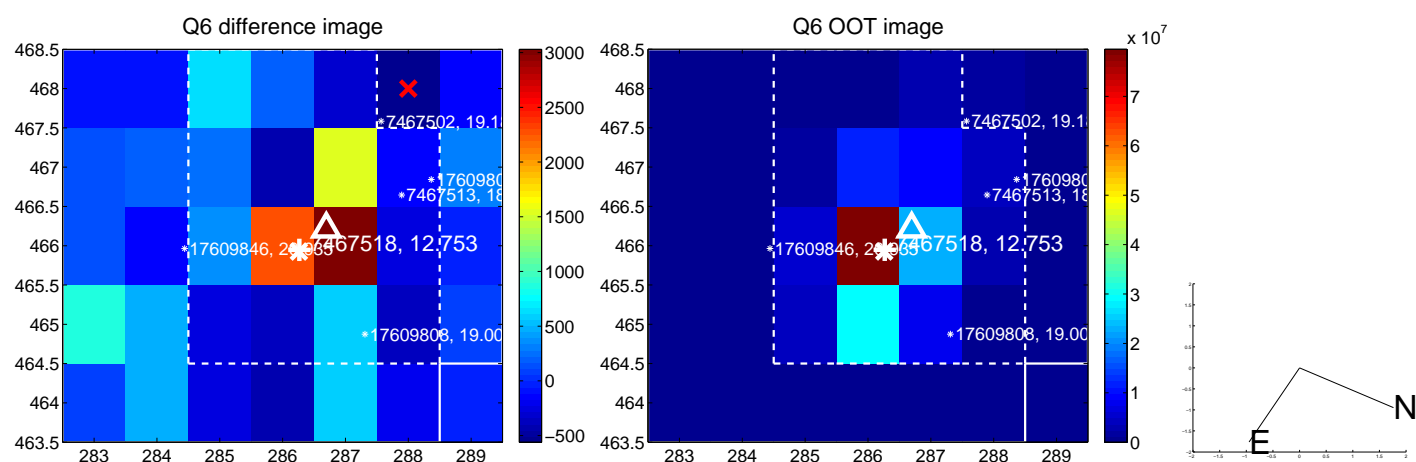
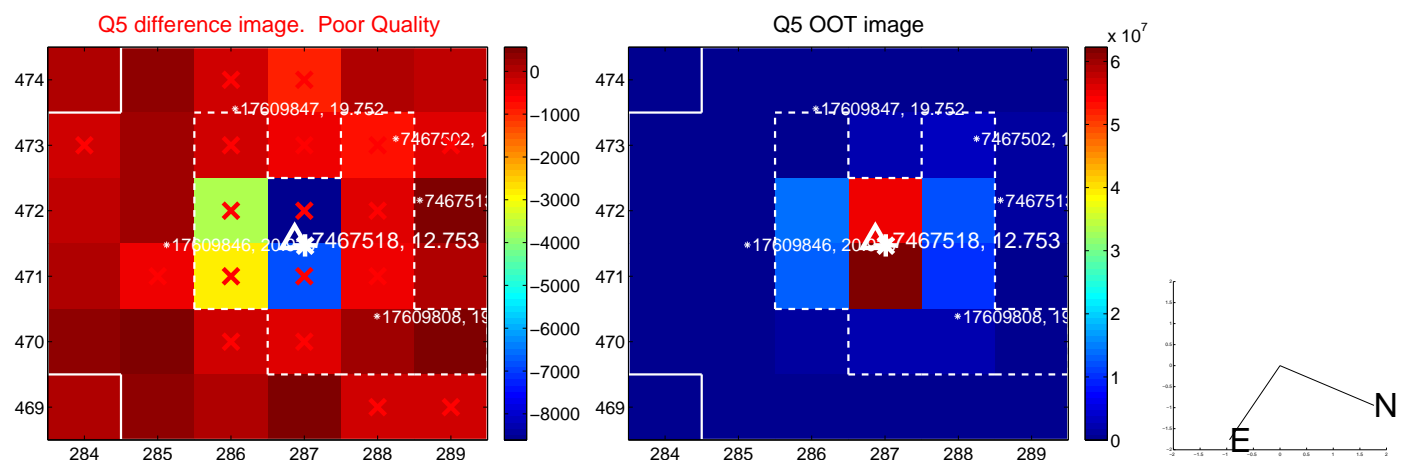


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

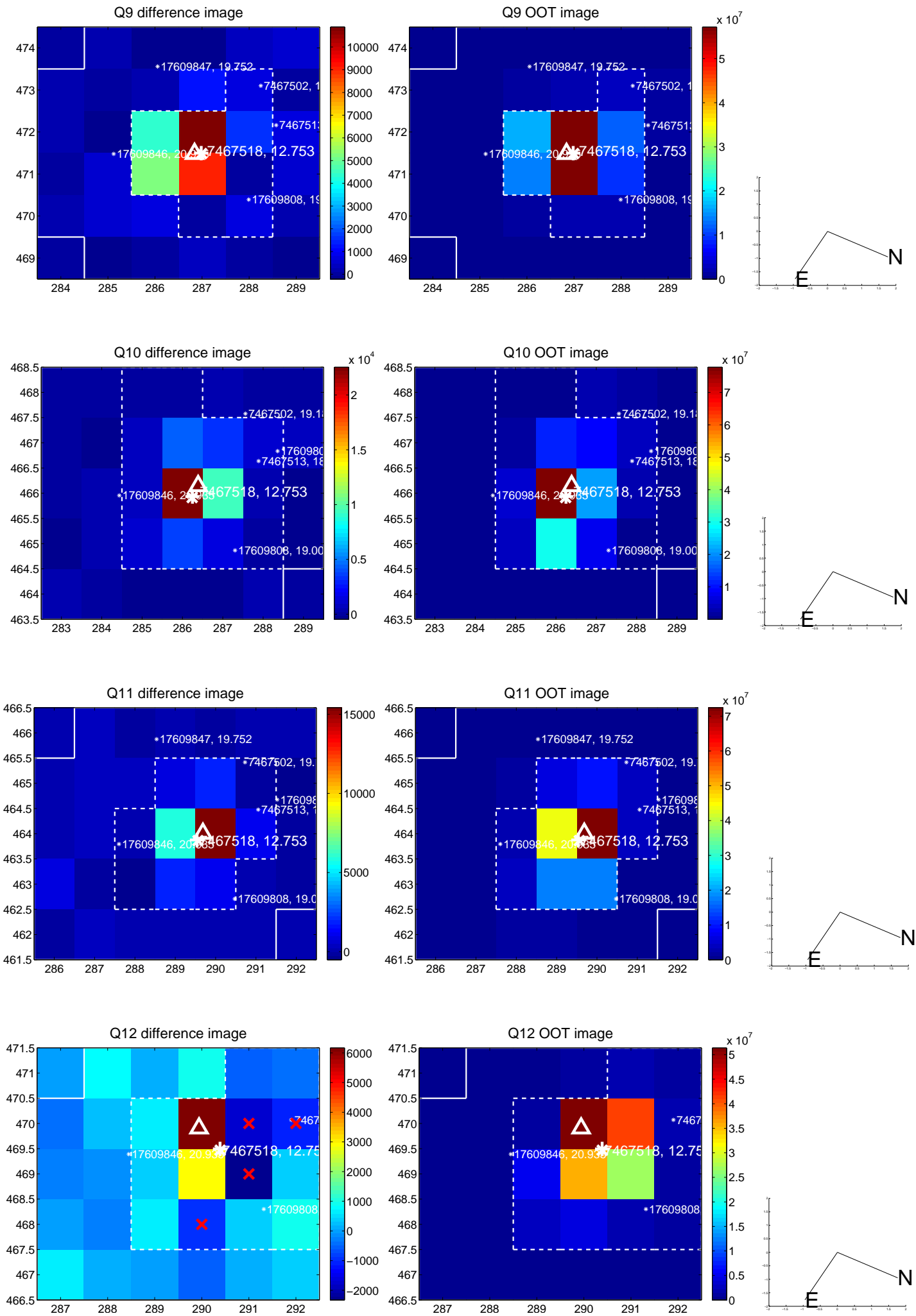
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



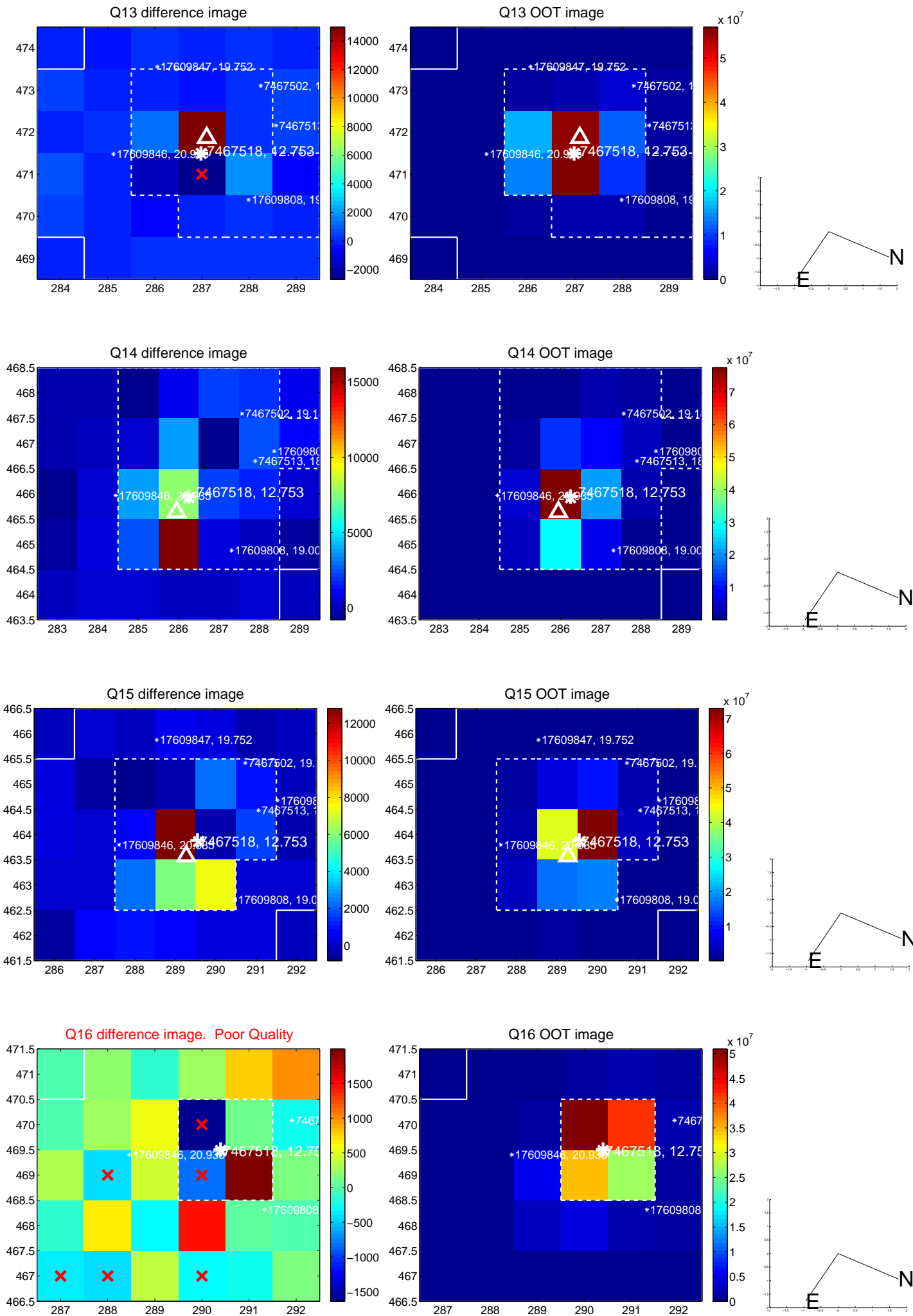
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



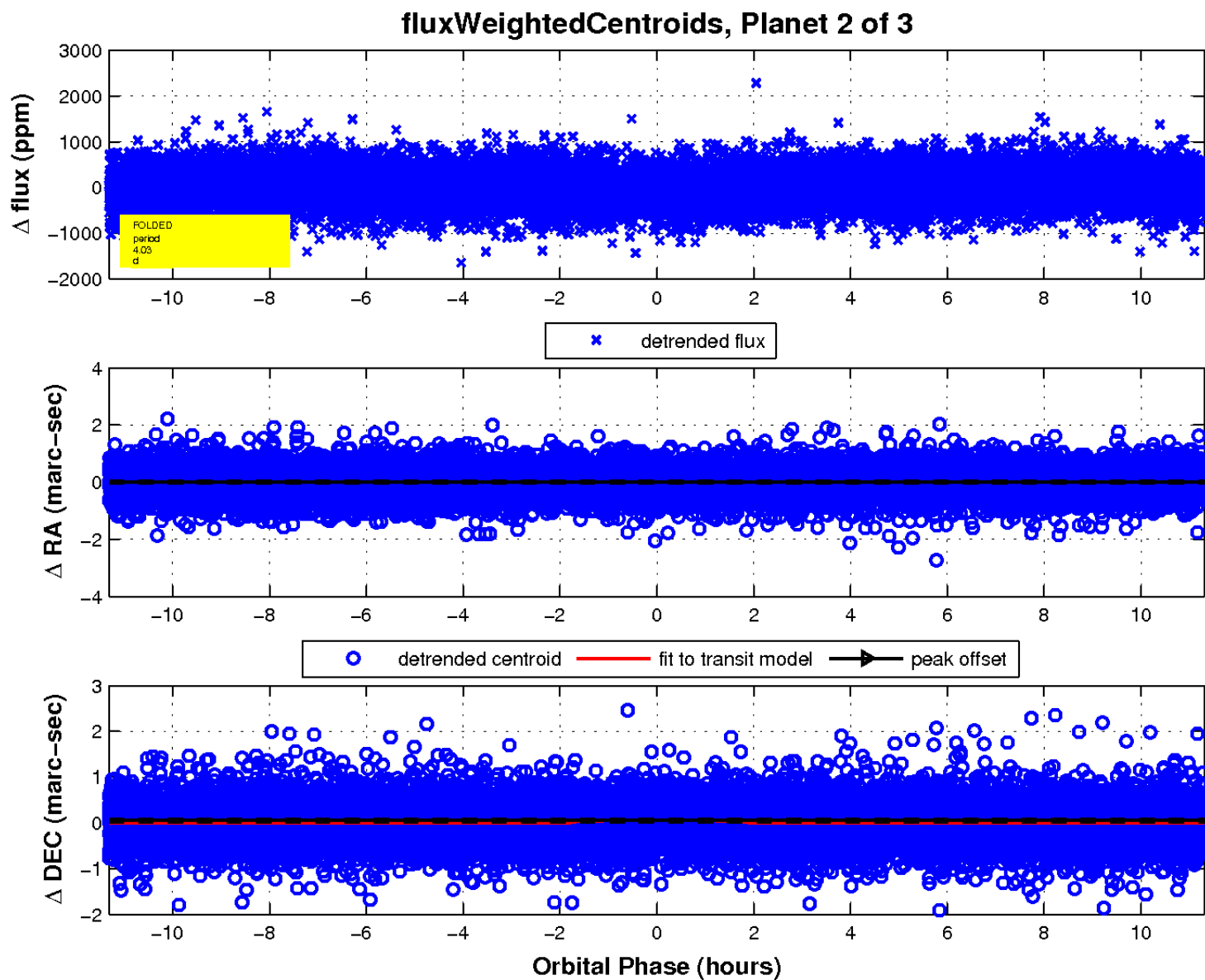
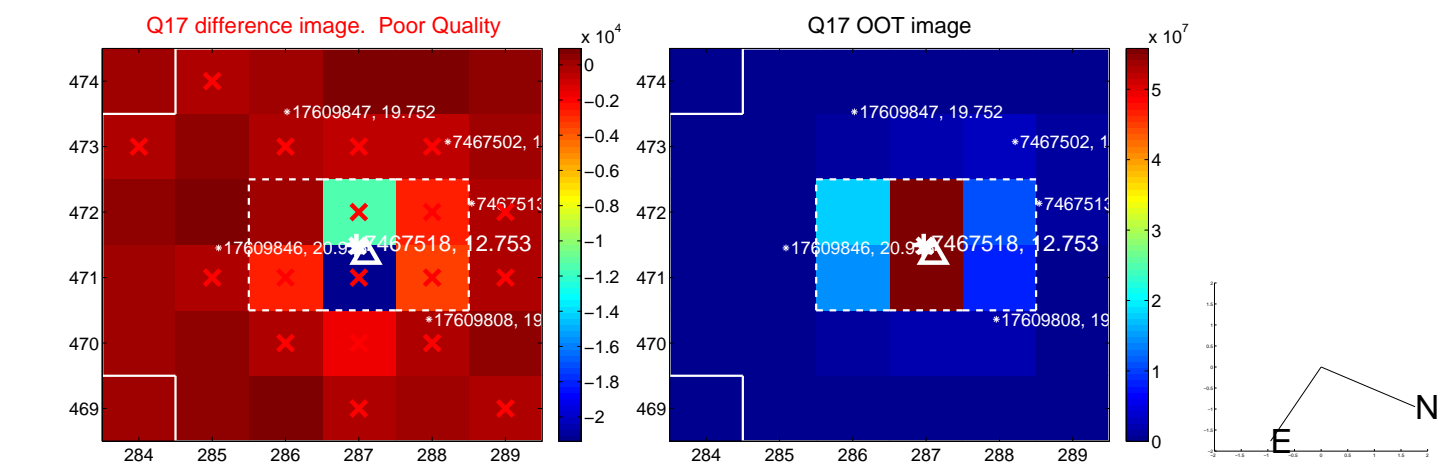
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

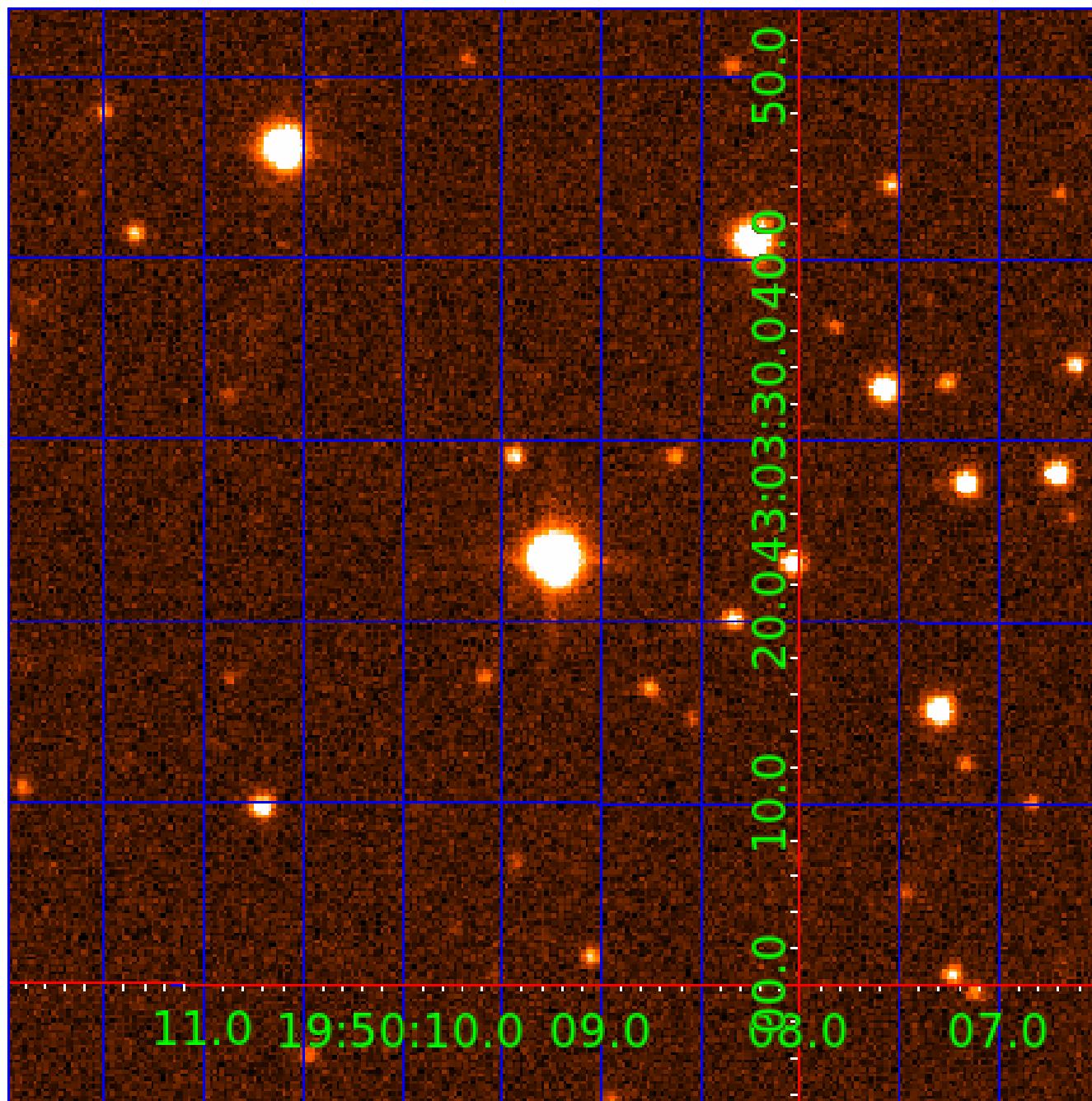


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007467518

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})
007467518-01	OBS	No	1.711766	132.999378	55.7	5.486	9.1	9.6	2.73	7663	2.36	18775.04
007467518-02	OBS	No	4.032674	135.355788	113.7	3.771	7.6	9.1	2.73	7663	3.37	5989.39
007467518-03	OBS	No	227.497501	138.726102	885.3	3.260	7.4	8.3	2.73	7663	9.07	27.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007467518-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007467518-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007467518-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

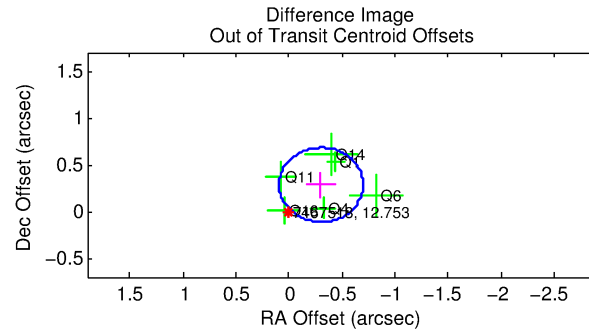
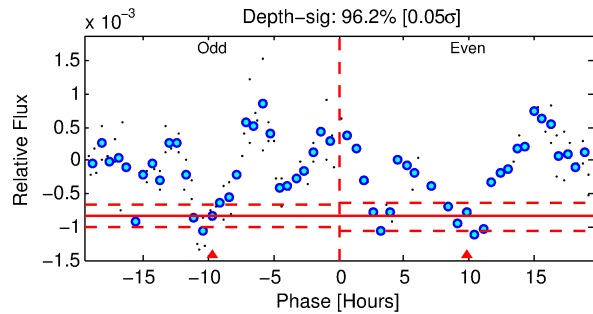
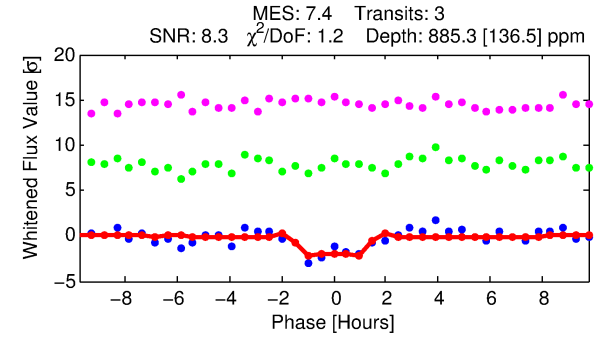
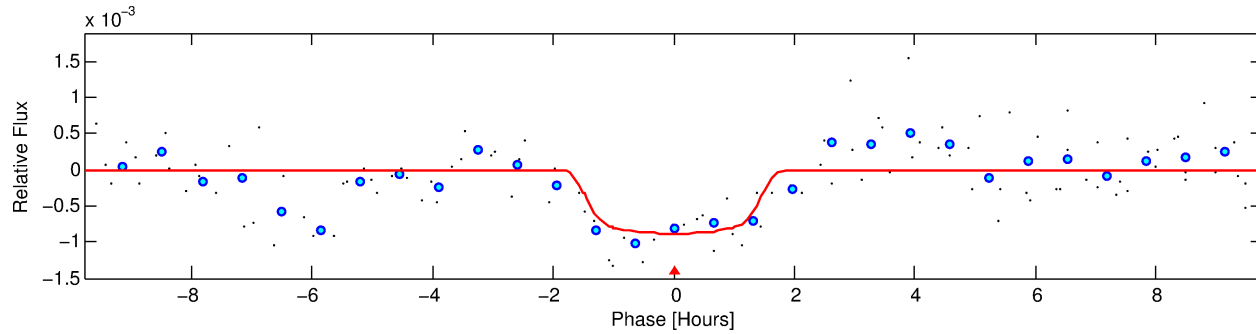
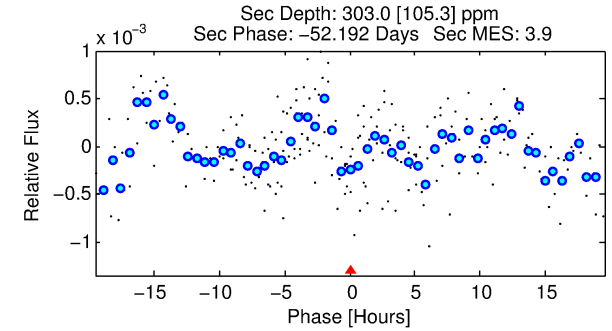
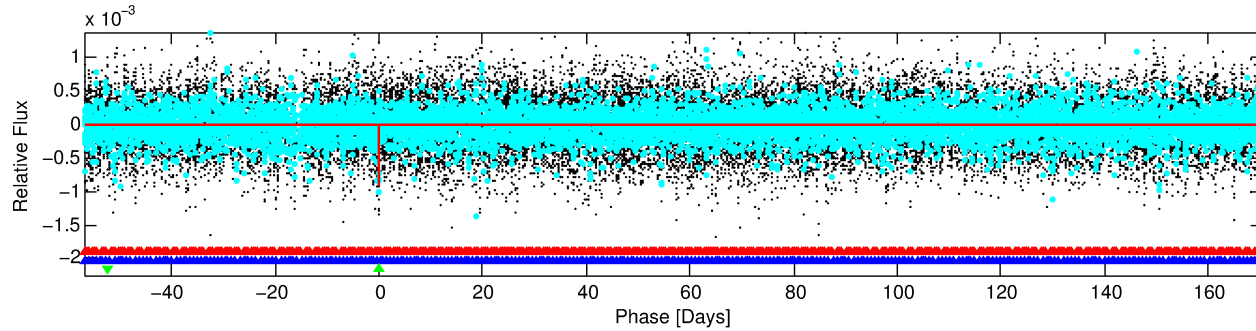
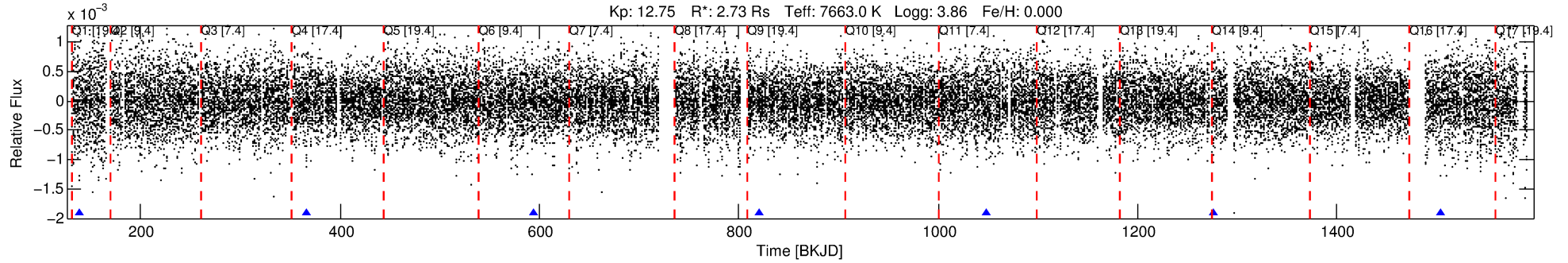
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007467518-03

No Significant Match Found

DV One-Page Summary

KIC: 7467518 Candidate: 3 of 3 Period: 227.498 d



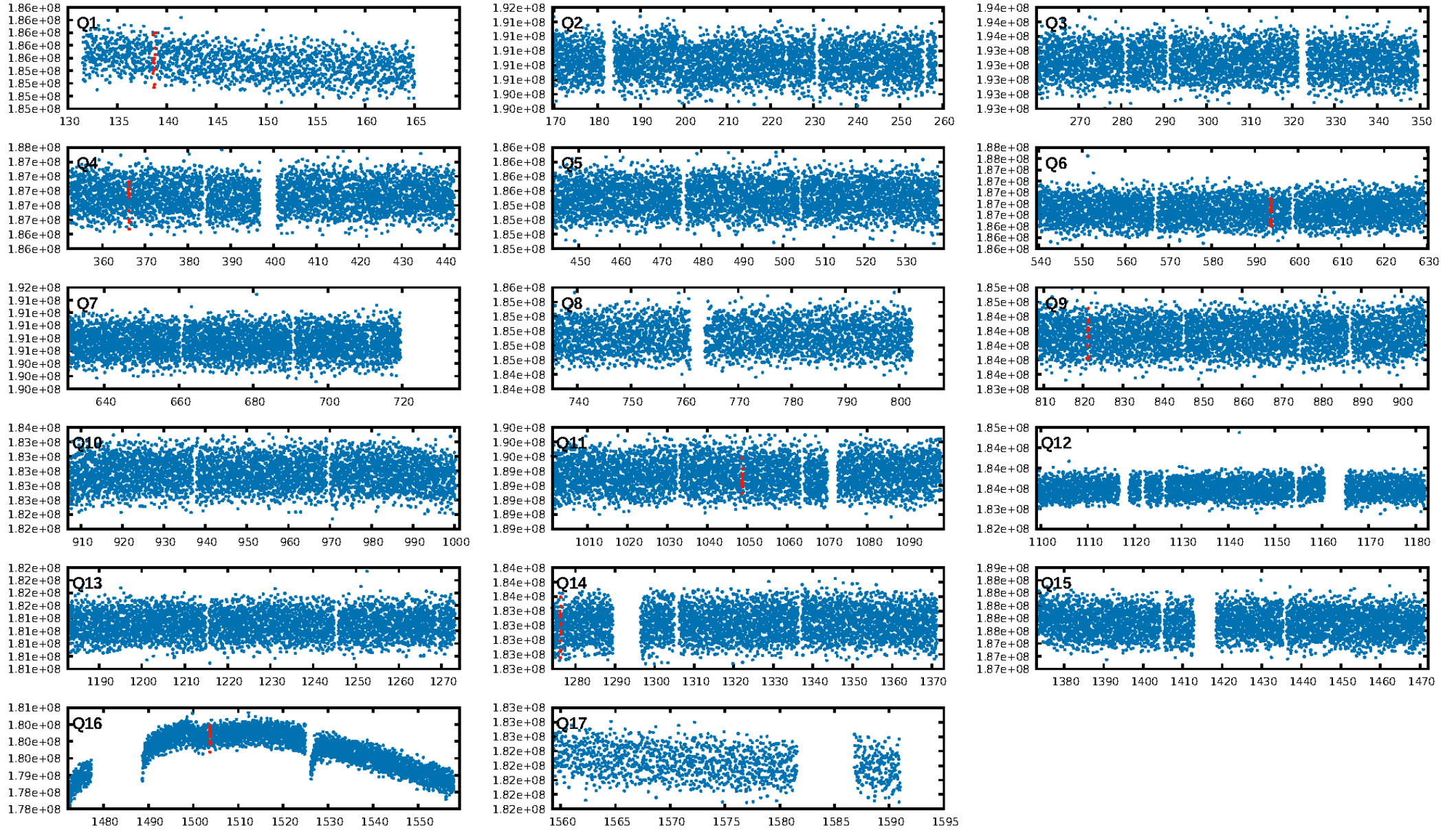
DV Fit Results:

Period = 227.49750 [0.00162] d
Epoch = 138.7261 [0.0059] BKJD
Rp/R* = 0.0305 [0.0146]
a/R* = 322.08 [913.64]
b = 0.83 [1.04]
Seff = 27.68 [14.60]
Teff = 585 [77] K
Rp = 9.07 [5.42] Re
a = 0.9107 [0.2943] AU
Ag = 1678.68 [1908.61] [0.88σ]
Teffp = 5788 [1498] K [3.47σ]

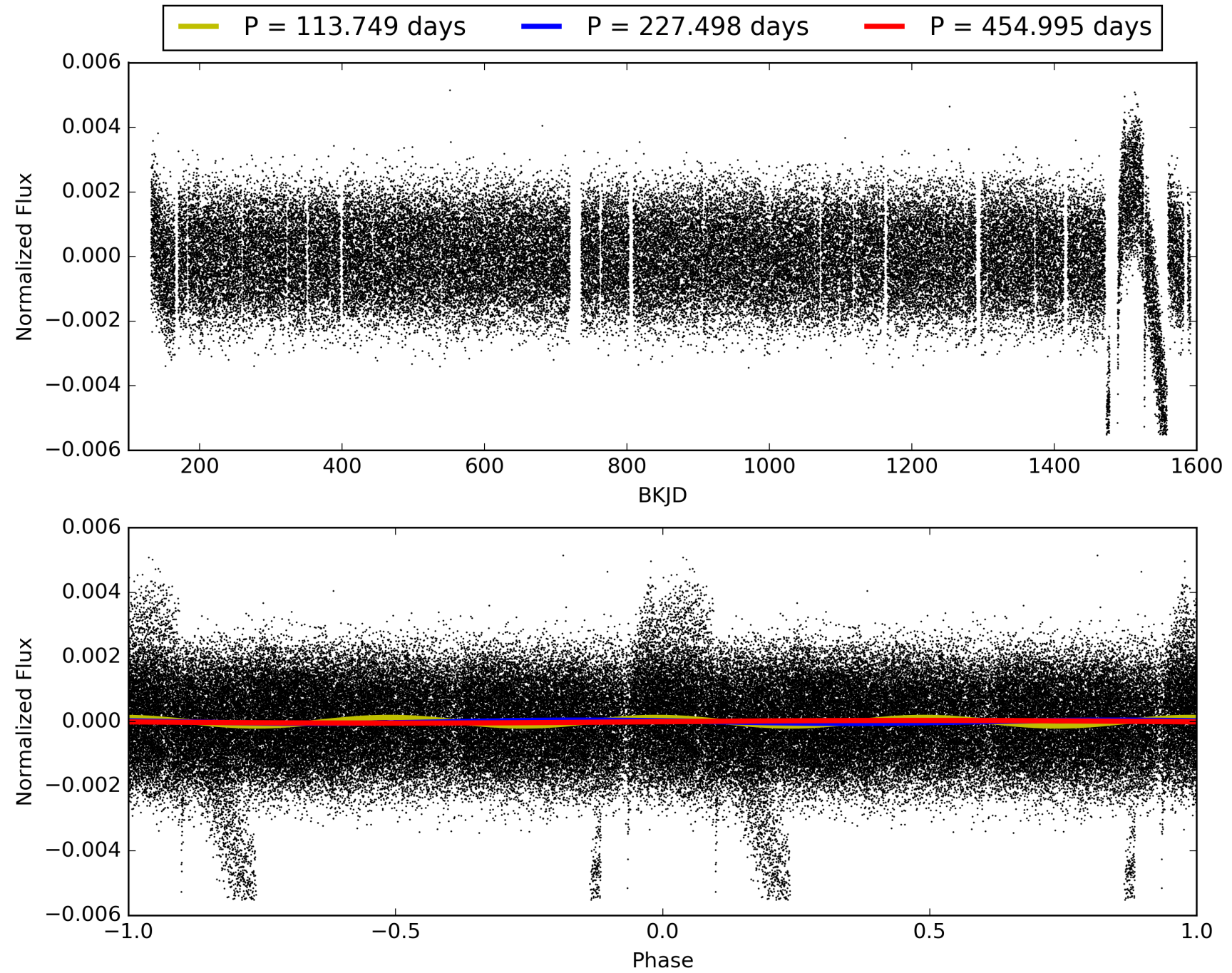
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [1075.93σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 48.1%
ModelChiSquareGof-sig: 94.9%
Bootstrap-pfa: 5.27e-10
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: 0.5786
Centroid-sig: 8.0%
Centroid-so: 0.206 arcsec [0.99σ]
OotOffset-rm: 0.417 arcsec [3.15σ]
OotOffset-st: 2/1/2/1 [6]
KicOffset-rm: 0.409 arcsec [2.95σ]
KicOffset-st: 2/1/2/1 [6]
DiffImageQuality-fgm: 0.83 [5/6]
DiffImageOverlap-fno: 0.14 [1/7]

TCE 007467518-03, PDC Light Curves

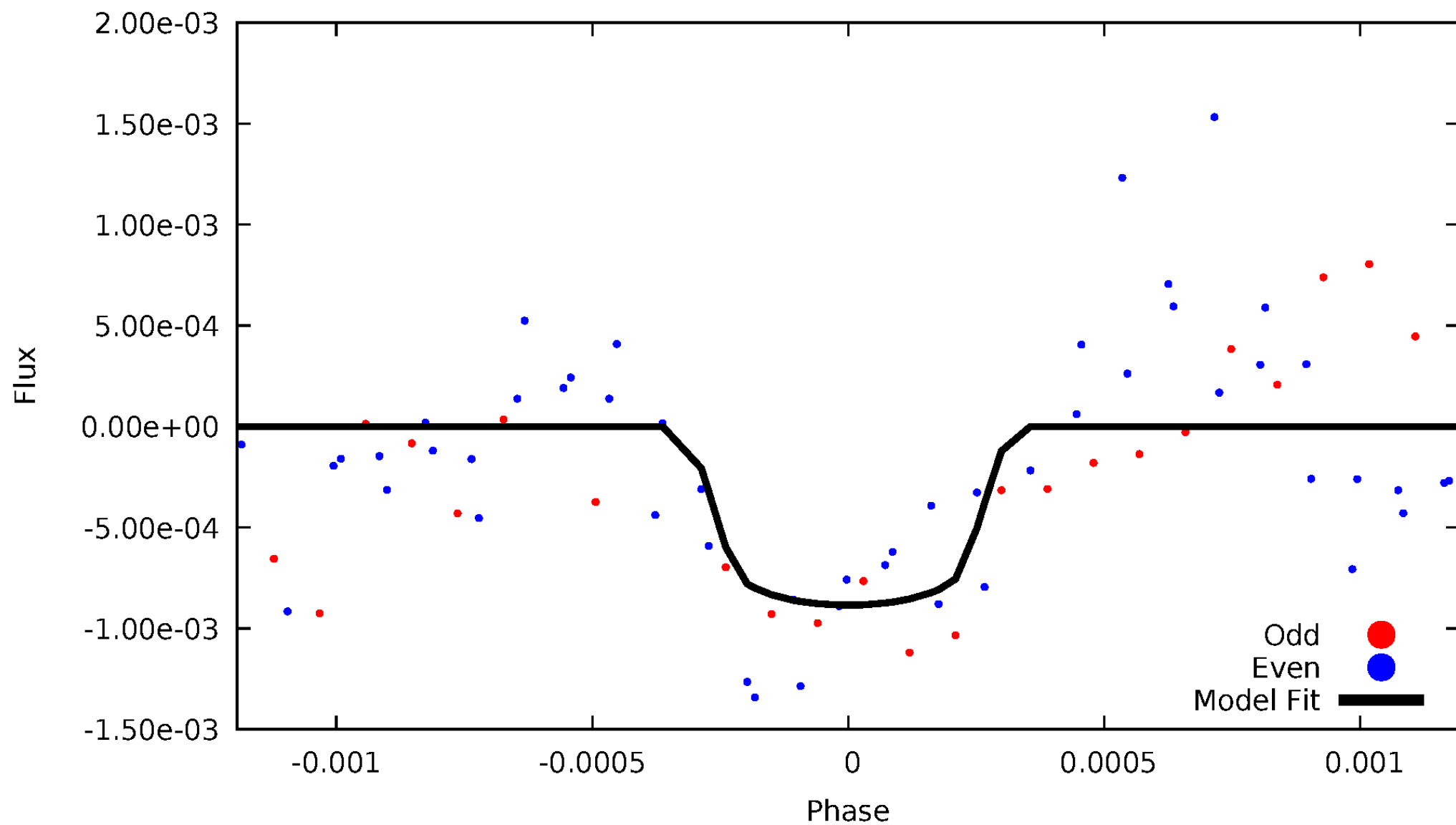


TCE 007467518-03



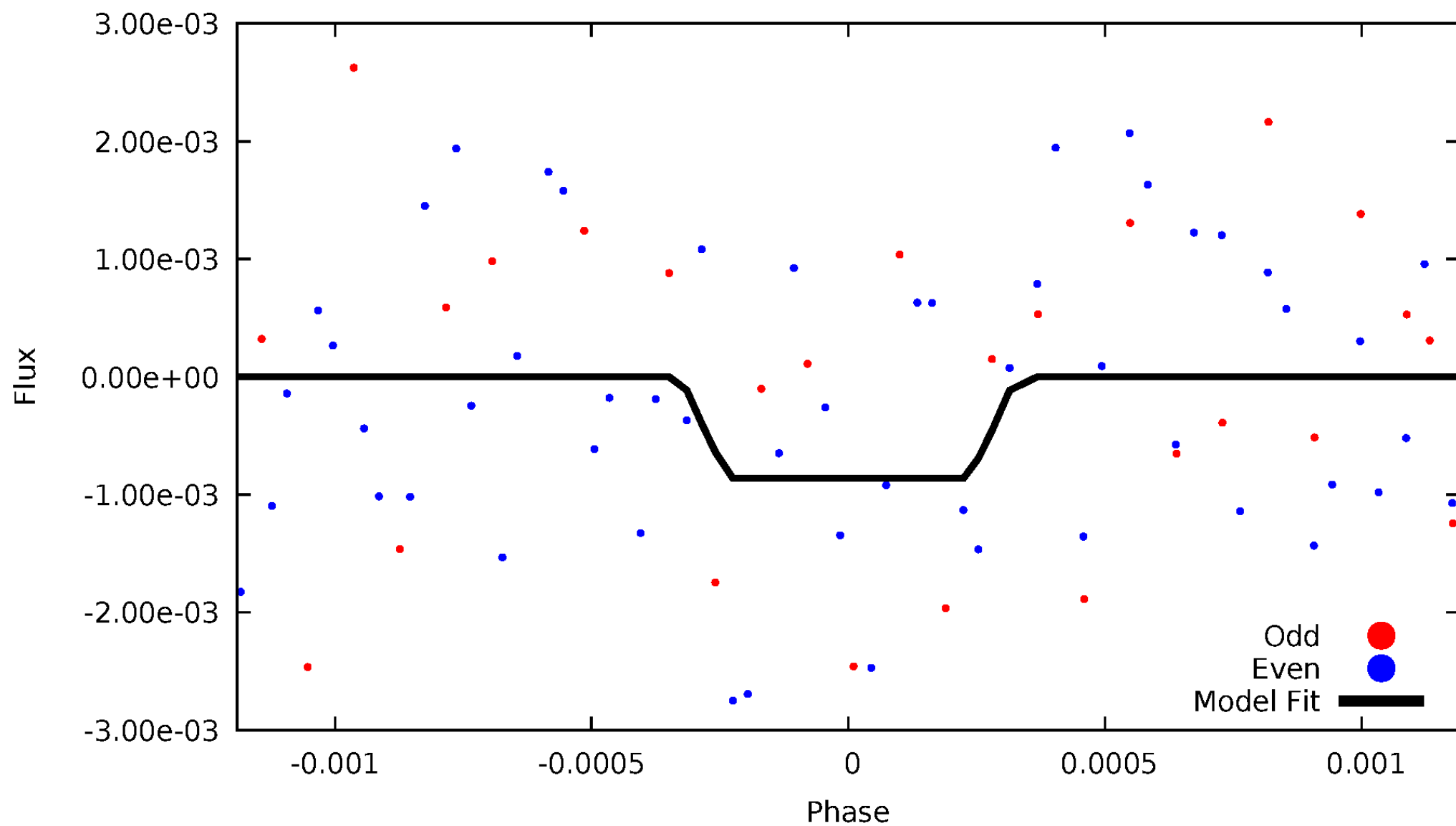
DV Odd/Even

TCE 007467518-03



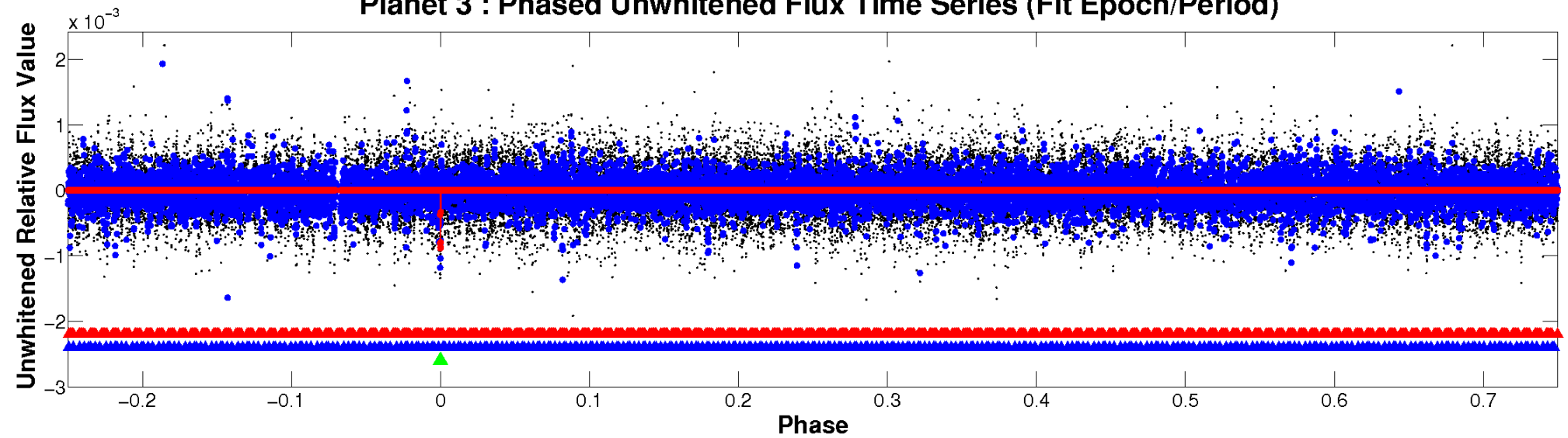
ALT Odd/Even

TCE 007467518-03

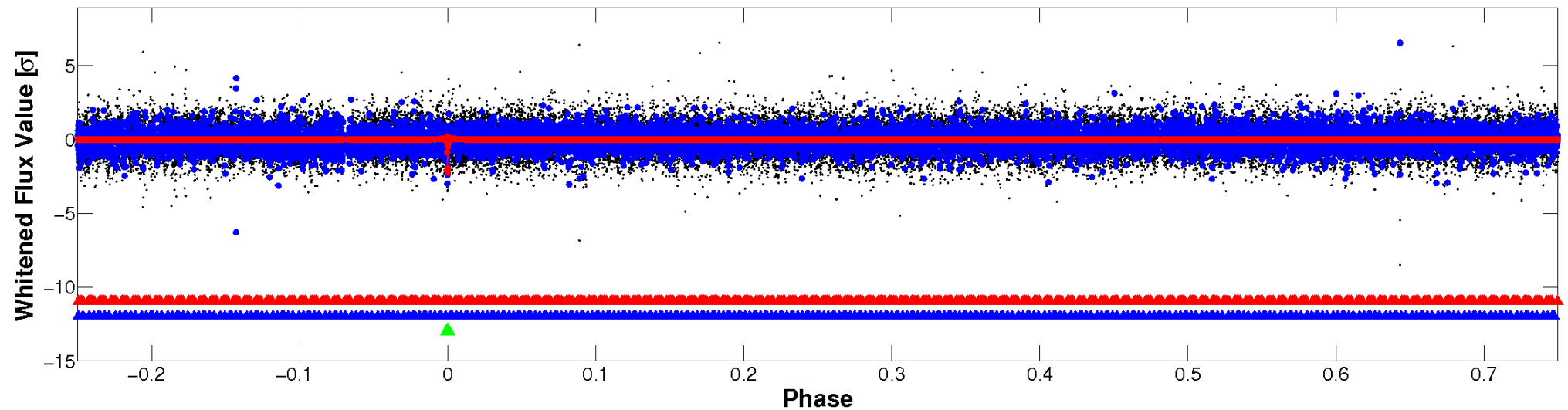


Non-Whitened Vs. Whitened Light Curve

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

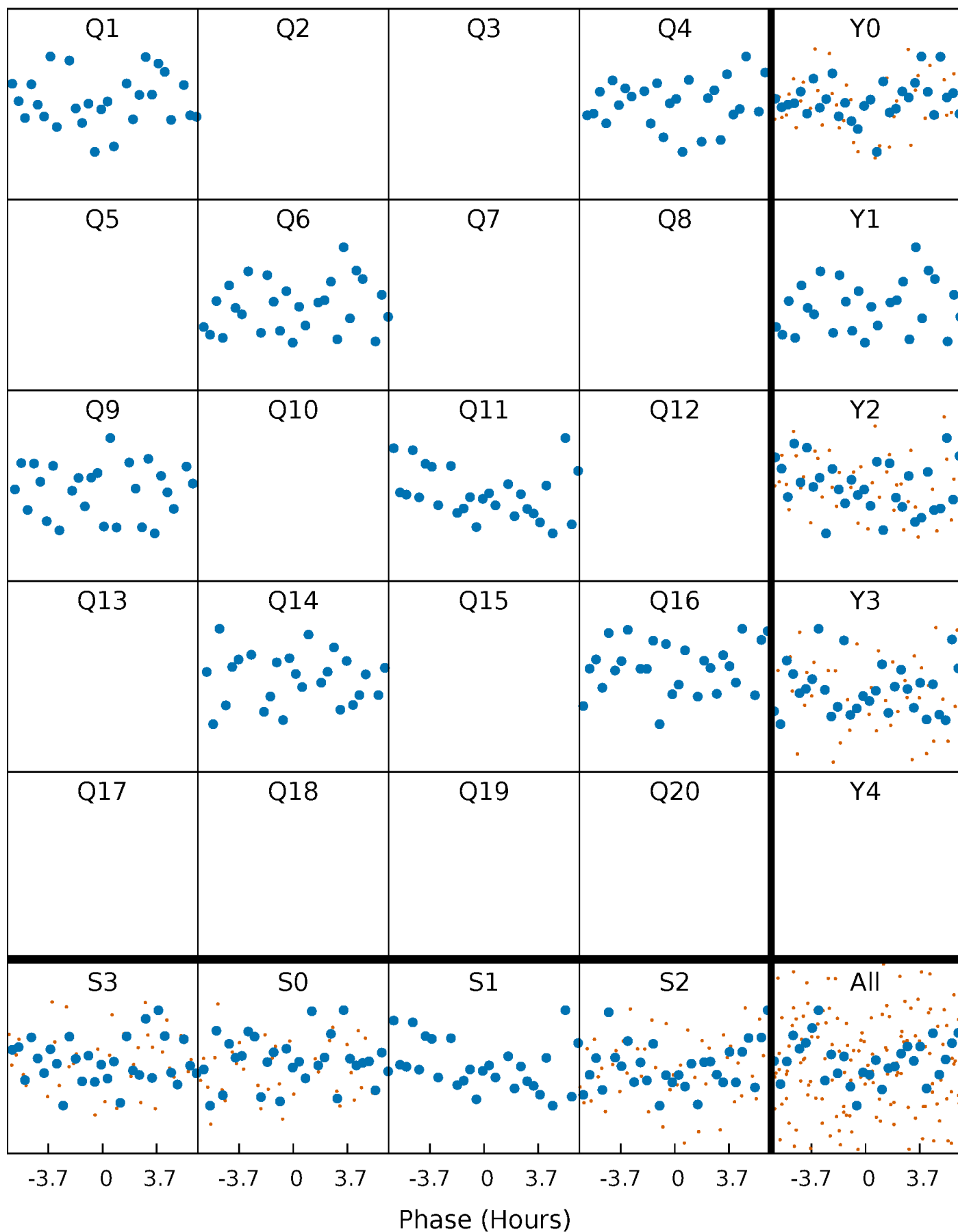


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



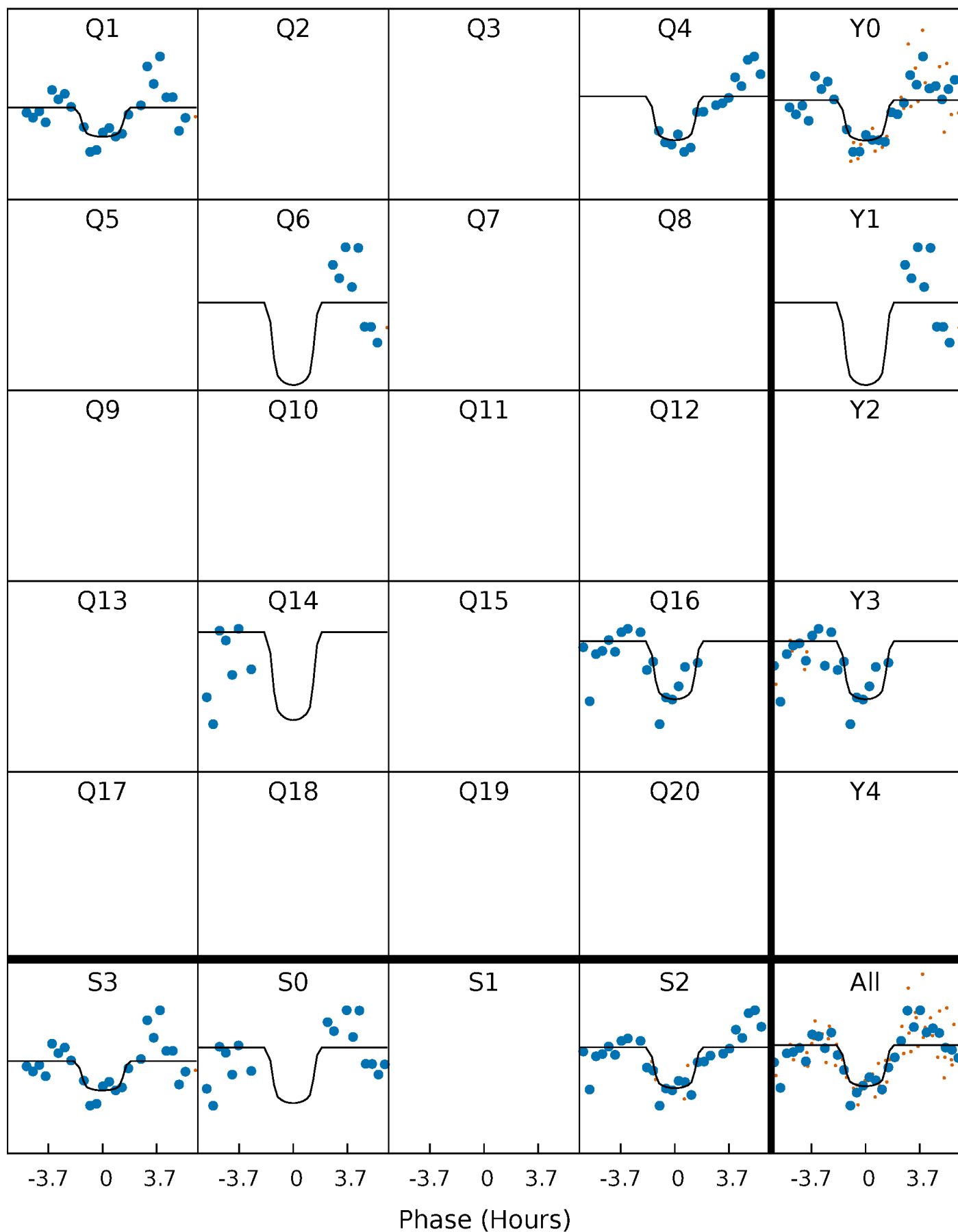
PDC Quarter-Phased Transit Curves

TCE 007467518-03 P=227.497501 Days $T_0=138.726102$ (BKJD)



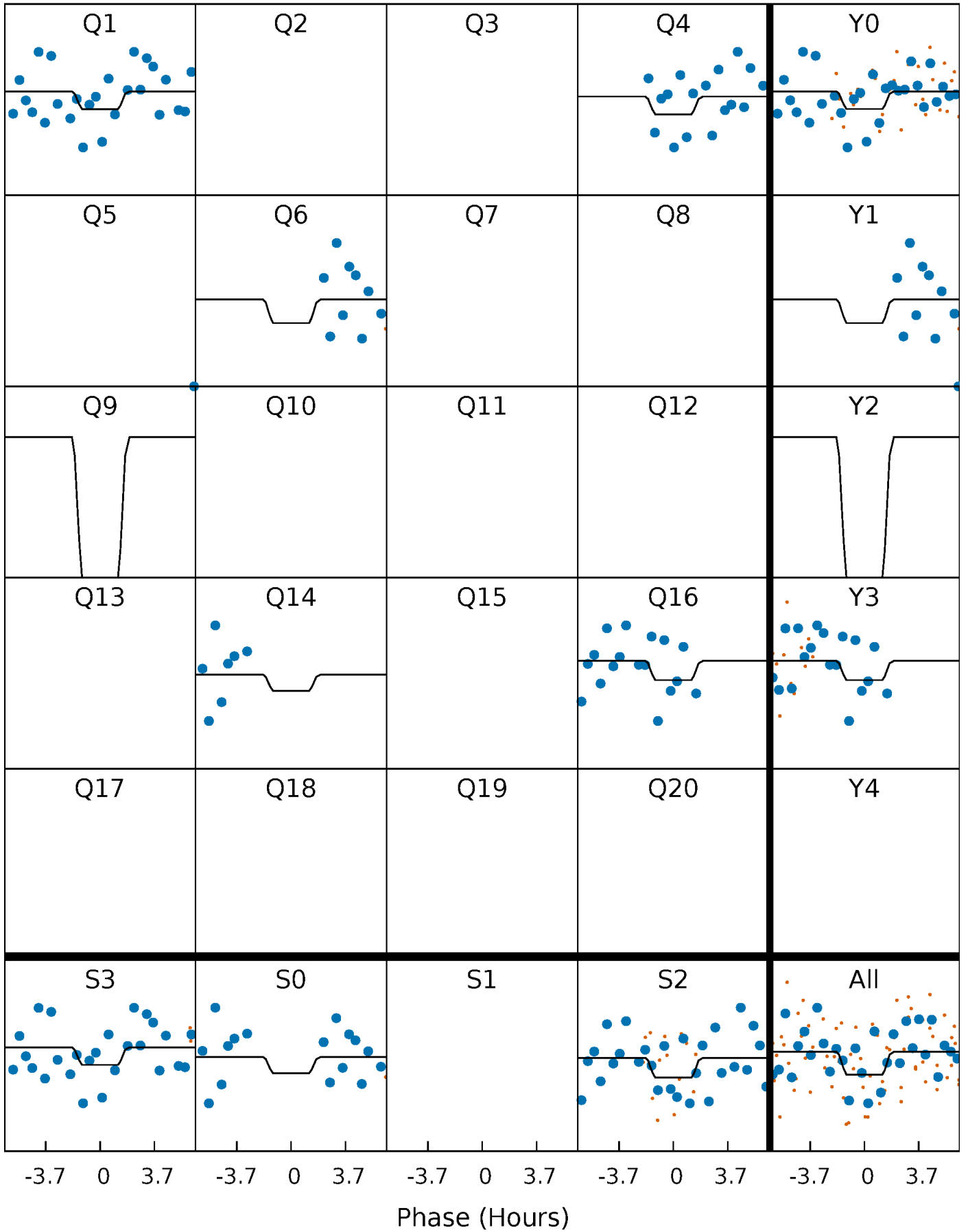
DV Quarter-Phased Transit Curves

TCE 007467518-03 P=227.497501 Days $T_0=138.726102$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

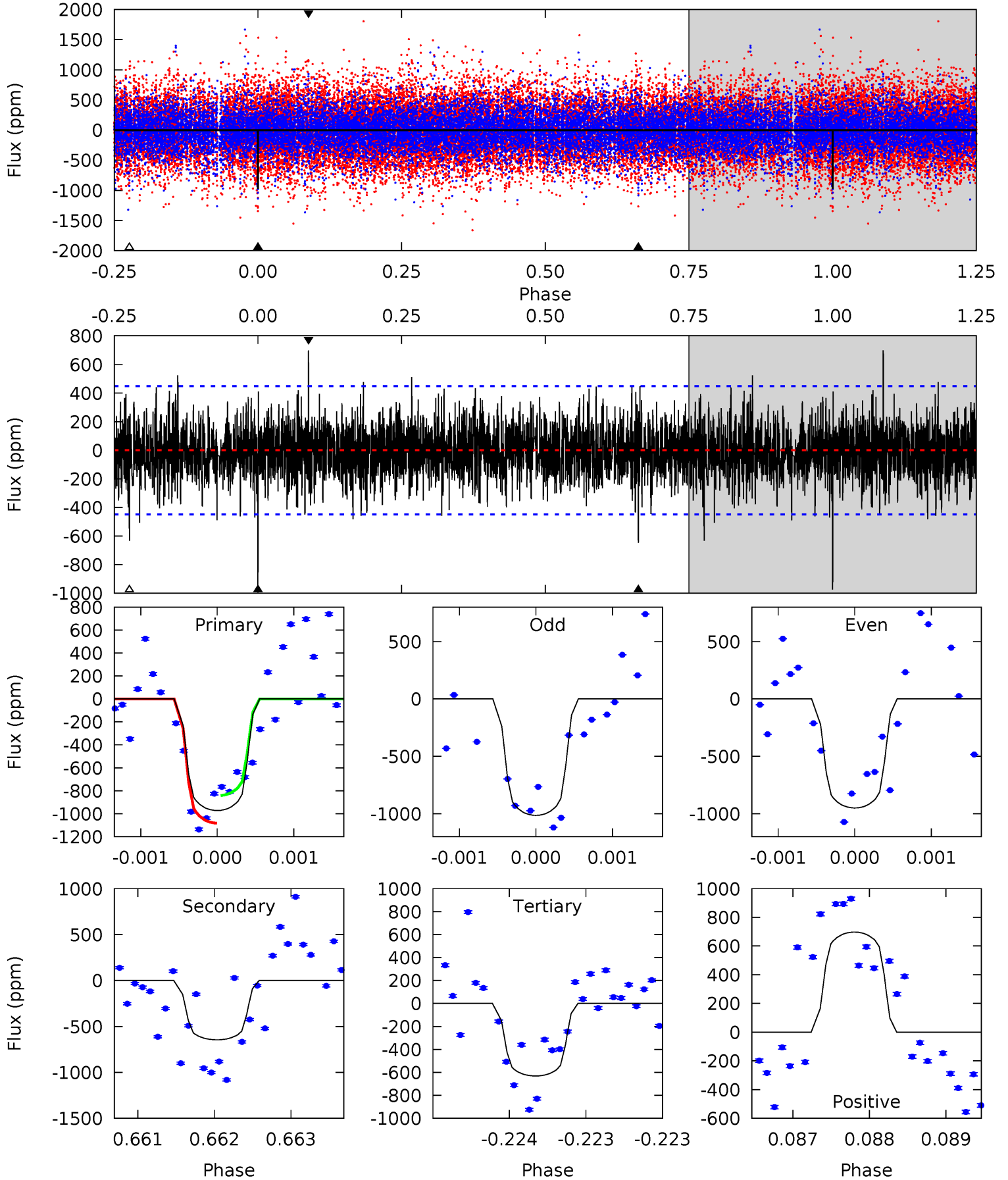
TCE 007467518-03 P=227.492440 Days $T_0=138.756063$ (BKJD)



DV Model-Shift Uniqueness Test

007467518-03, P = 227.497501 Days, E = 138.726102 Days

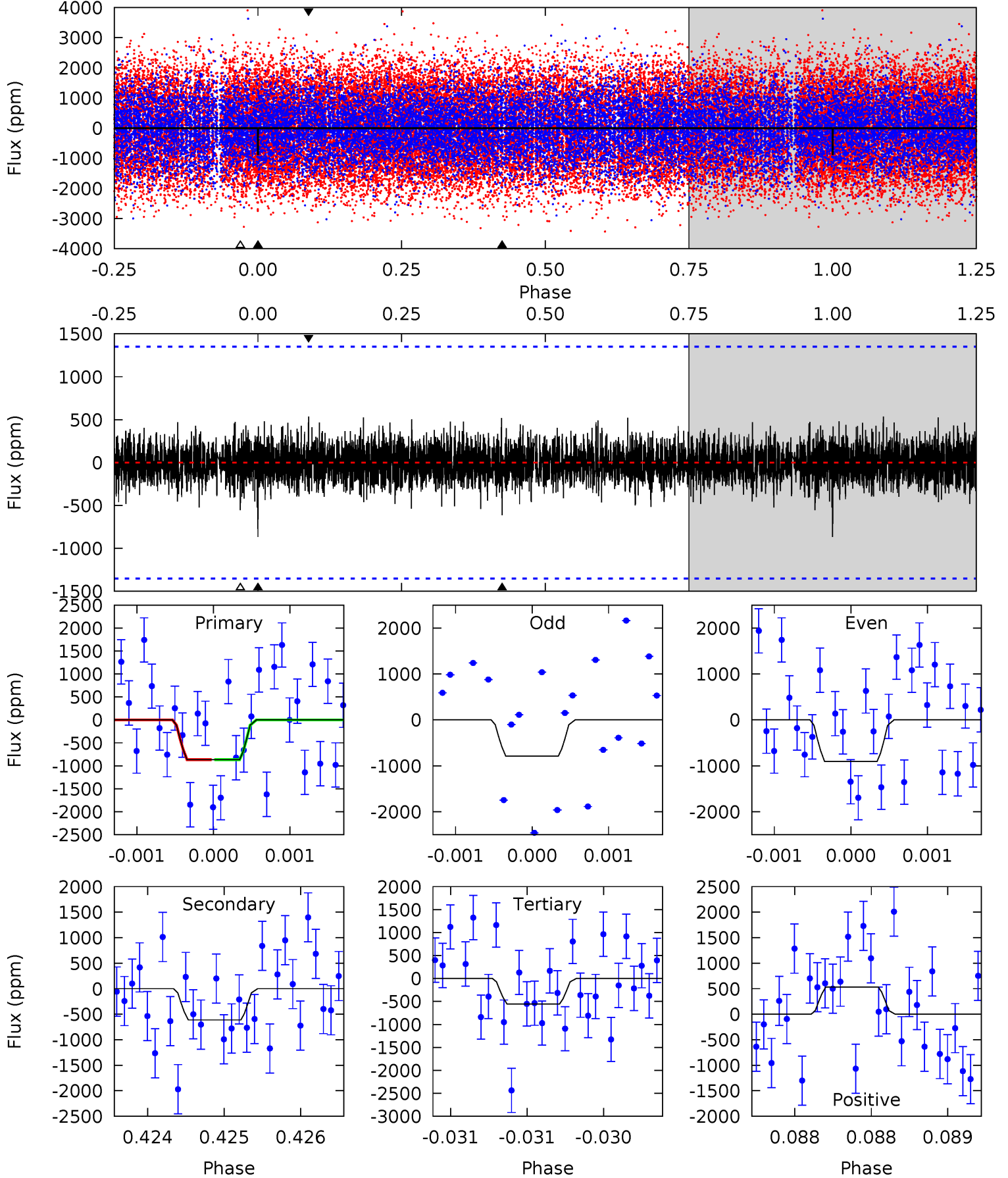
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.0	7.97	7.79	8.60	5.53	3.41	1.77	4.21	3.39	0.18	-0.64	0.38	0.96	0.42	1.48



Alt Model-Shift Uniqueness Test

007467518-03, P = 227.492440 Days, E = 138.756063 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.54	2.51	2.26	2.18	5.53	3.41	0.61	1.28	1.36	0.25	0.33	0.23	1.10	0.38	0.00



Stellar Parameters For KIC 007467518

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7663^{+214}_{-322}	$3.856^{+0.287}_{-0.123}$	$0.000^{+0.200}_{-0.350}$	$2.726^{+0.446}_{-0.967}$	$1.945^{+0.110}_{-0.439}$	$0.135^{+0.297}_{-0.043}$
	+3%/-4%	+7%/-3%	+inf%/-inf%	+16%/-35%	+6%/-23%	+220%/-32%
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 007467518-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-646 ± 81	$8.55^{+4.98}_{-4.01}$	804^{+56}_{-73}	6841^{+3100}_{-1305}	3814^{+9970}_{-2211}
Alt.	-613 ± 244	$8.45^{+4.43}_{-3.99}$	806^{+47}_{-73}	6660^{+3274}_{-1295}	3636^{+9369}_{-2270}

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

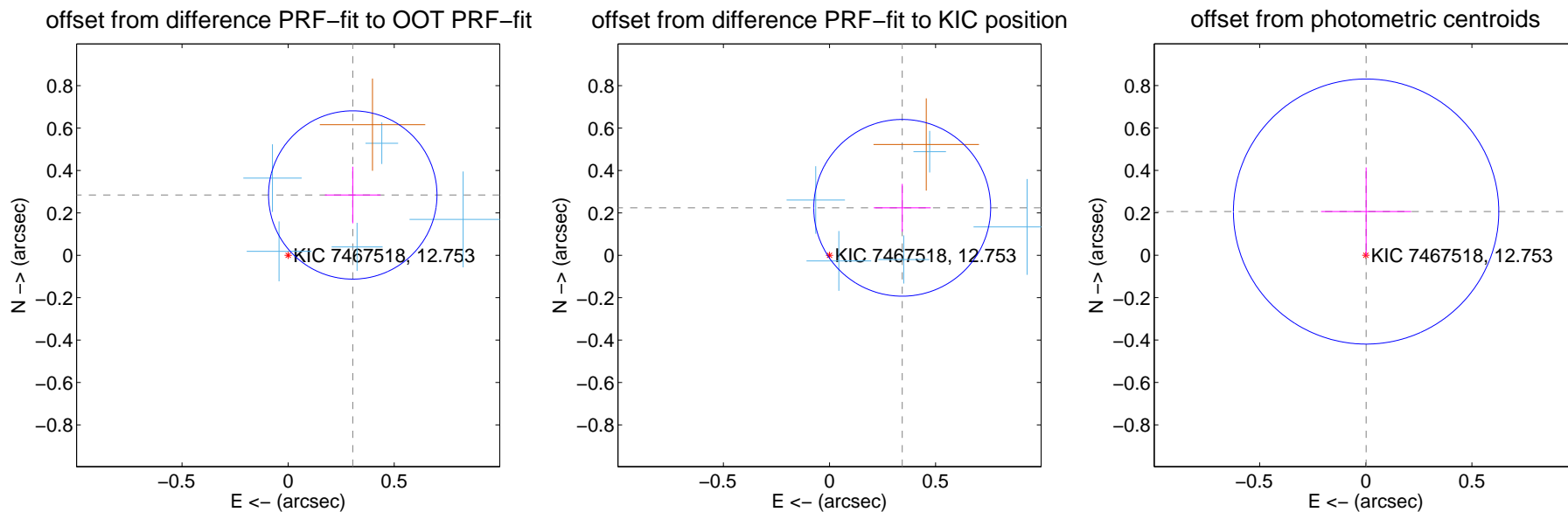
DV Centroid Data

Supplemental centroid analysis for 007467518-03. Kepler magnitude: 12.75. Transit SNR 8.27

There are 5 quarters with good PRF difference image offsets

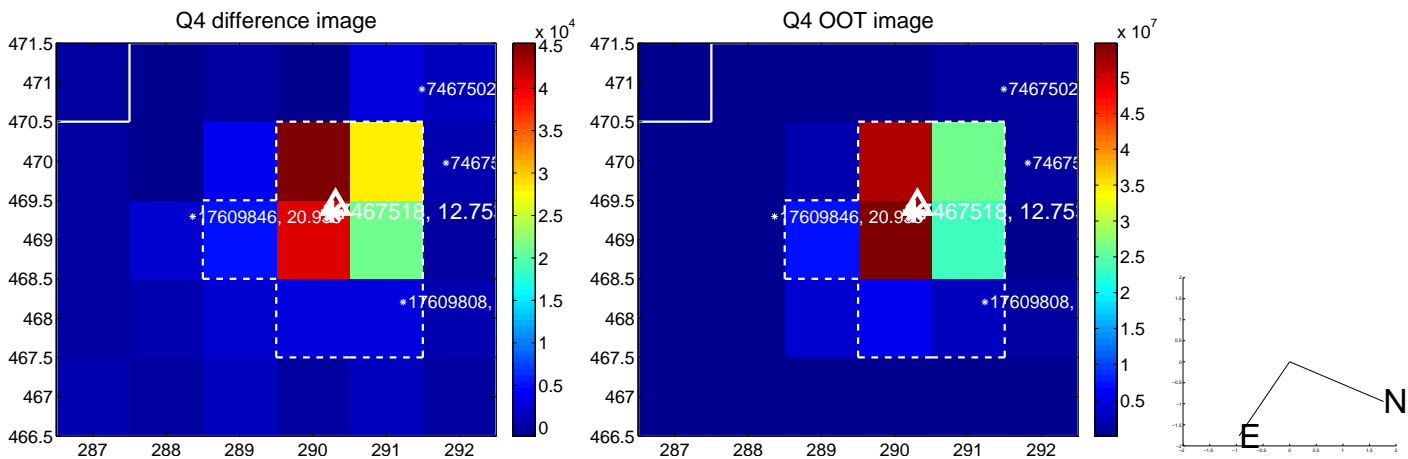
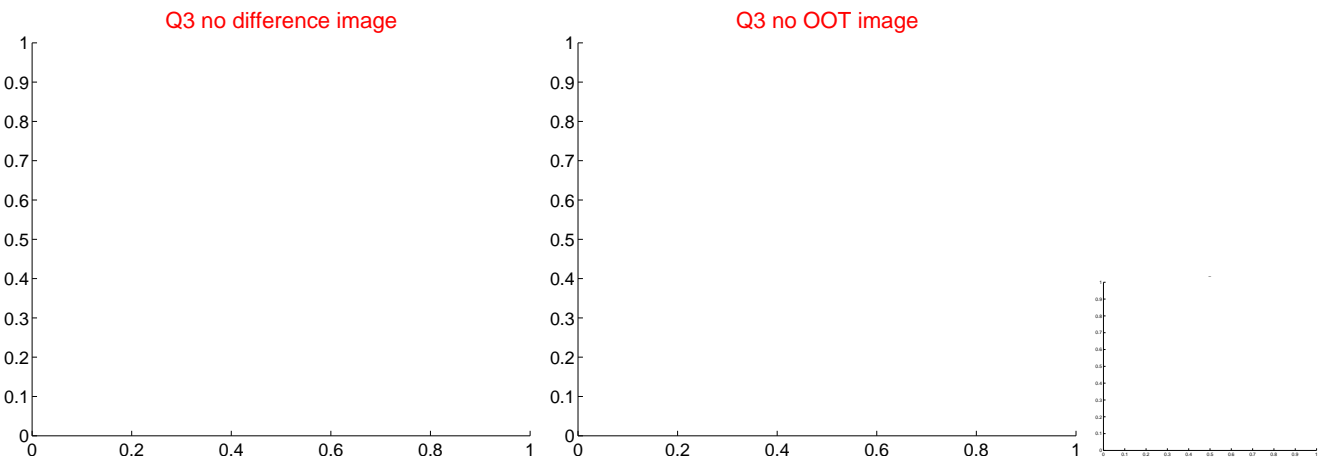
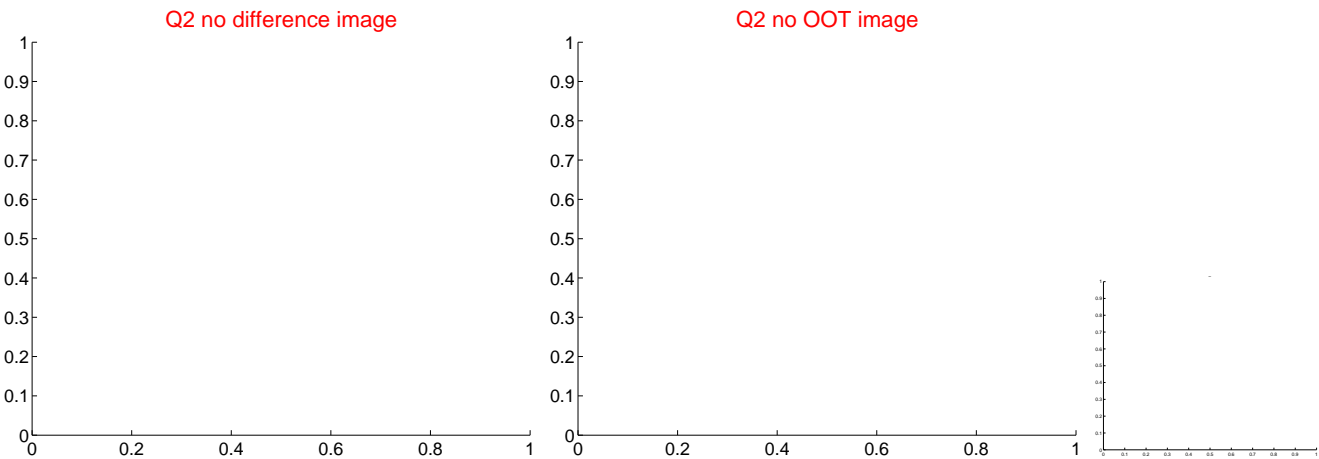
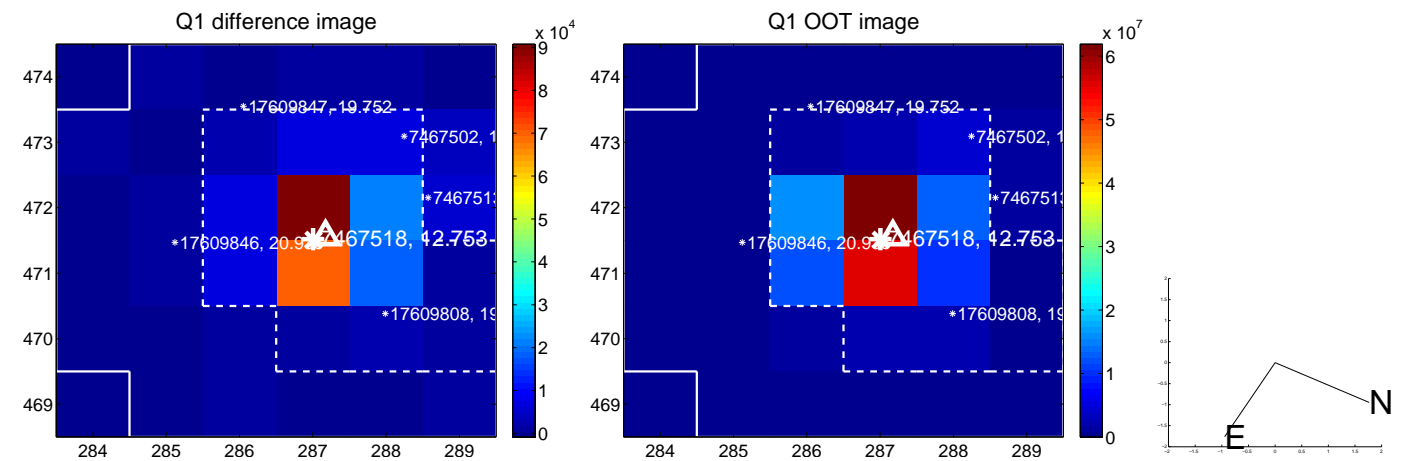
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.417 ± 0.132	3.15	-0.305 ± 0.131	0.284 ± 0.134
PRF-fit source offset from KIC position	0.409 ± 0.139	2.95	-0.343 ± 0.134	0.224 ± 0.113
photometric centroid source offset	0.21 ± 0.21	0.99	-0.00 ± 0.21	0.21 ± 0.21

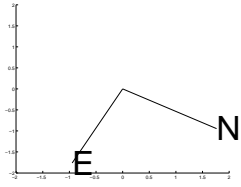
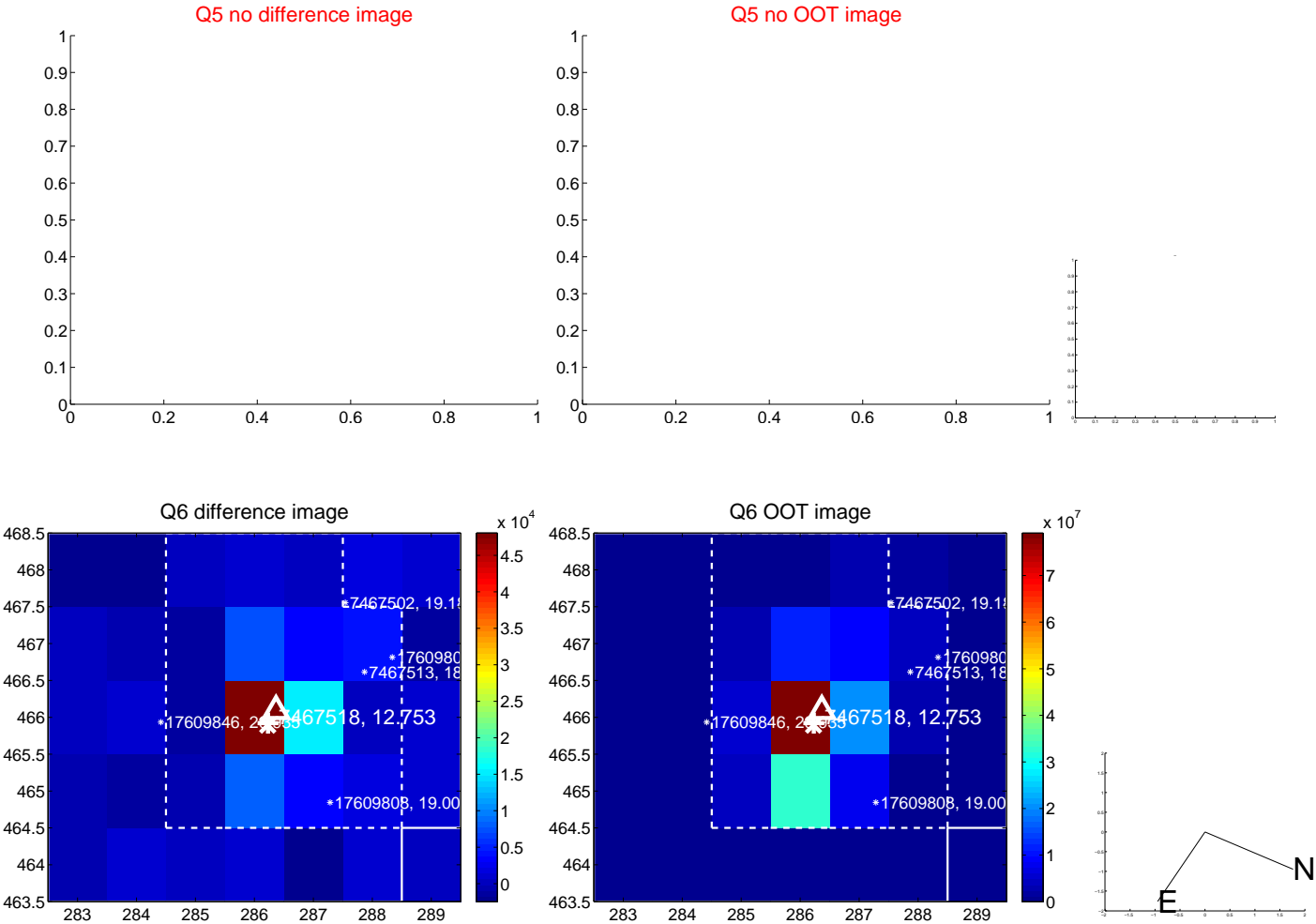


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

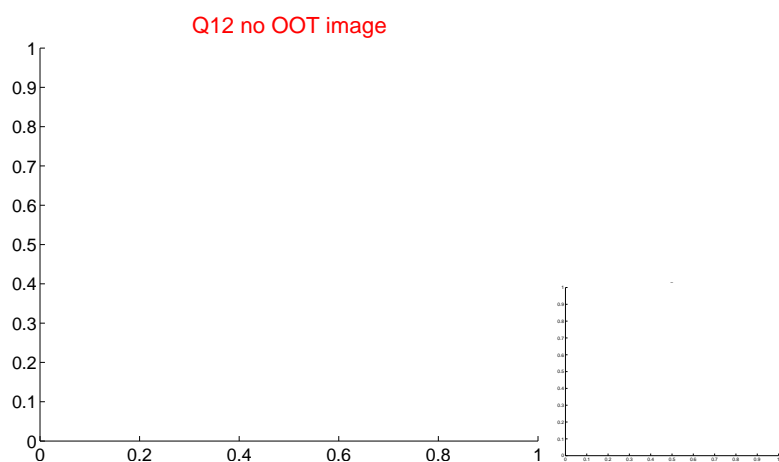
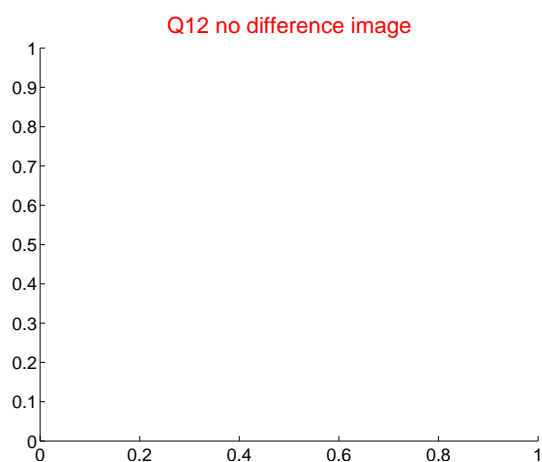
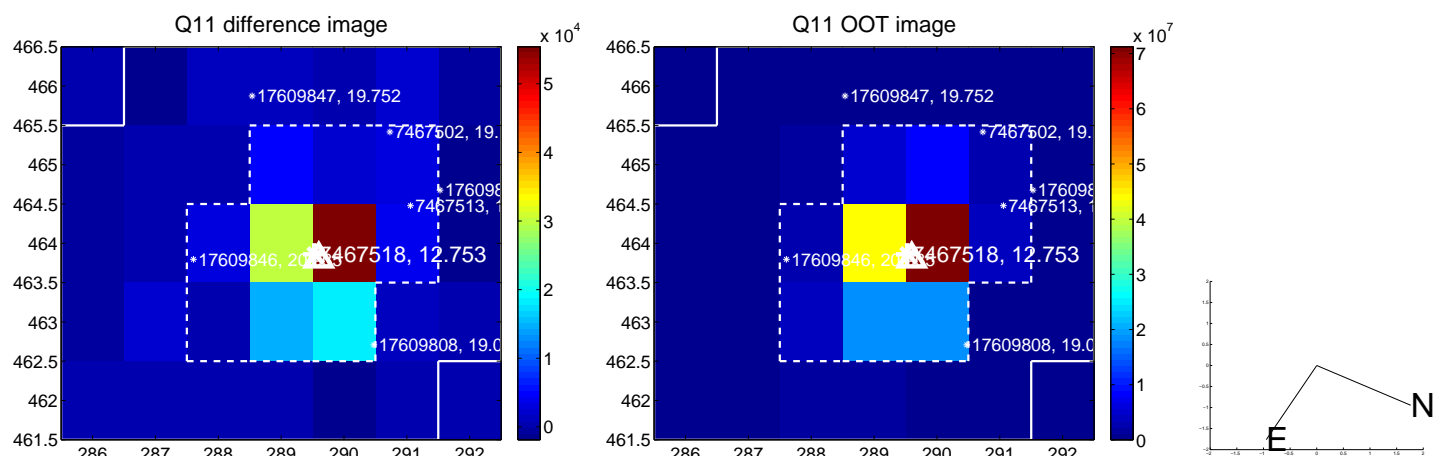
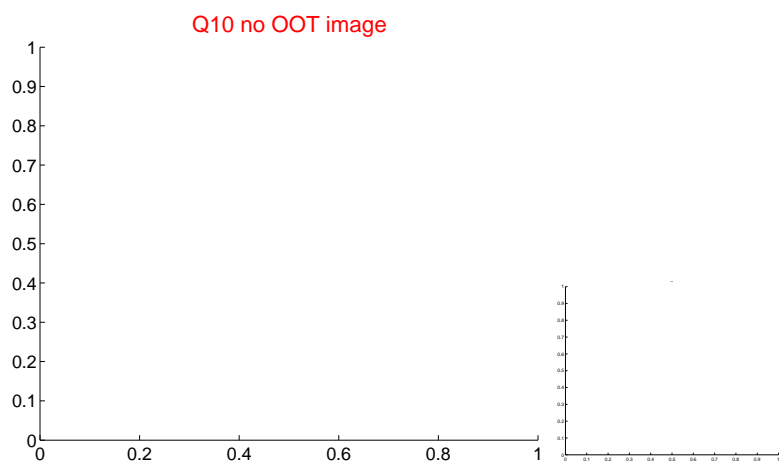
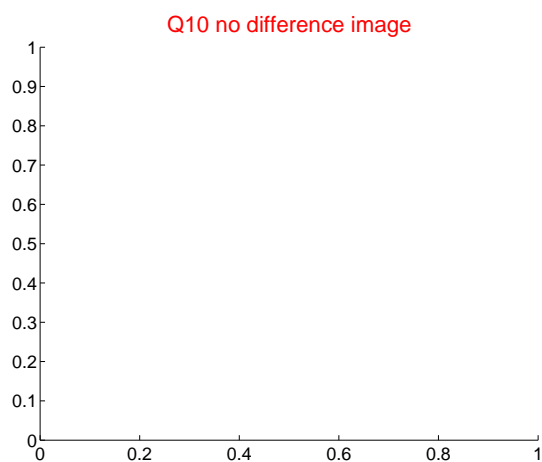
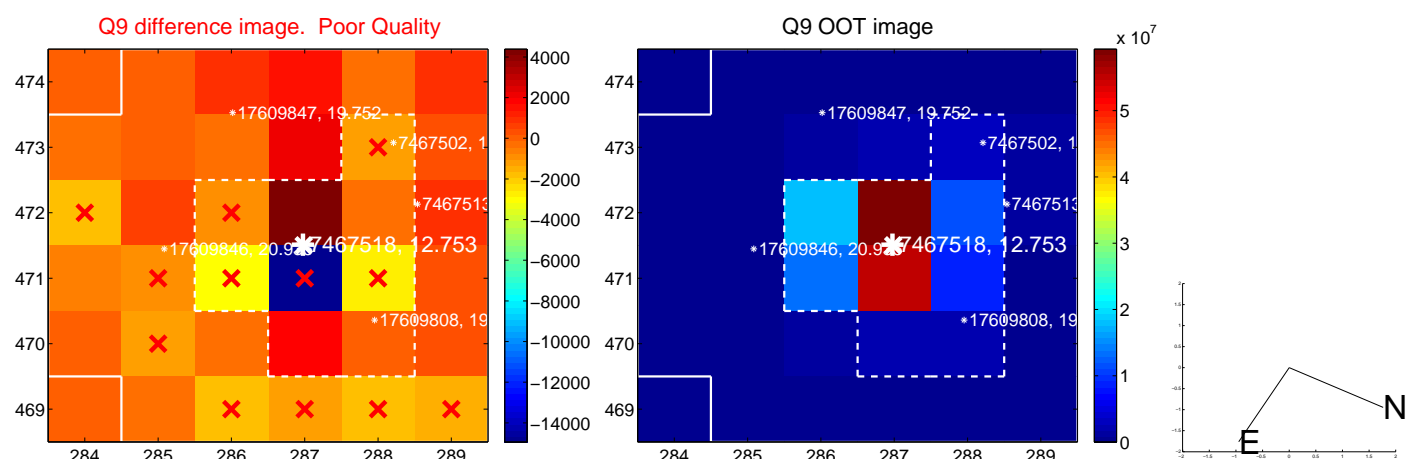
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



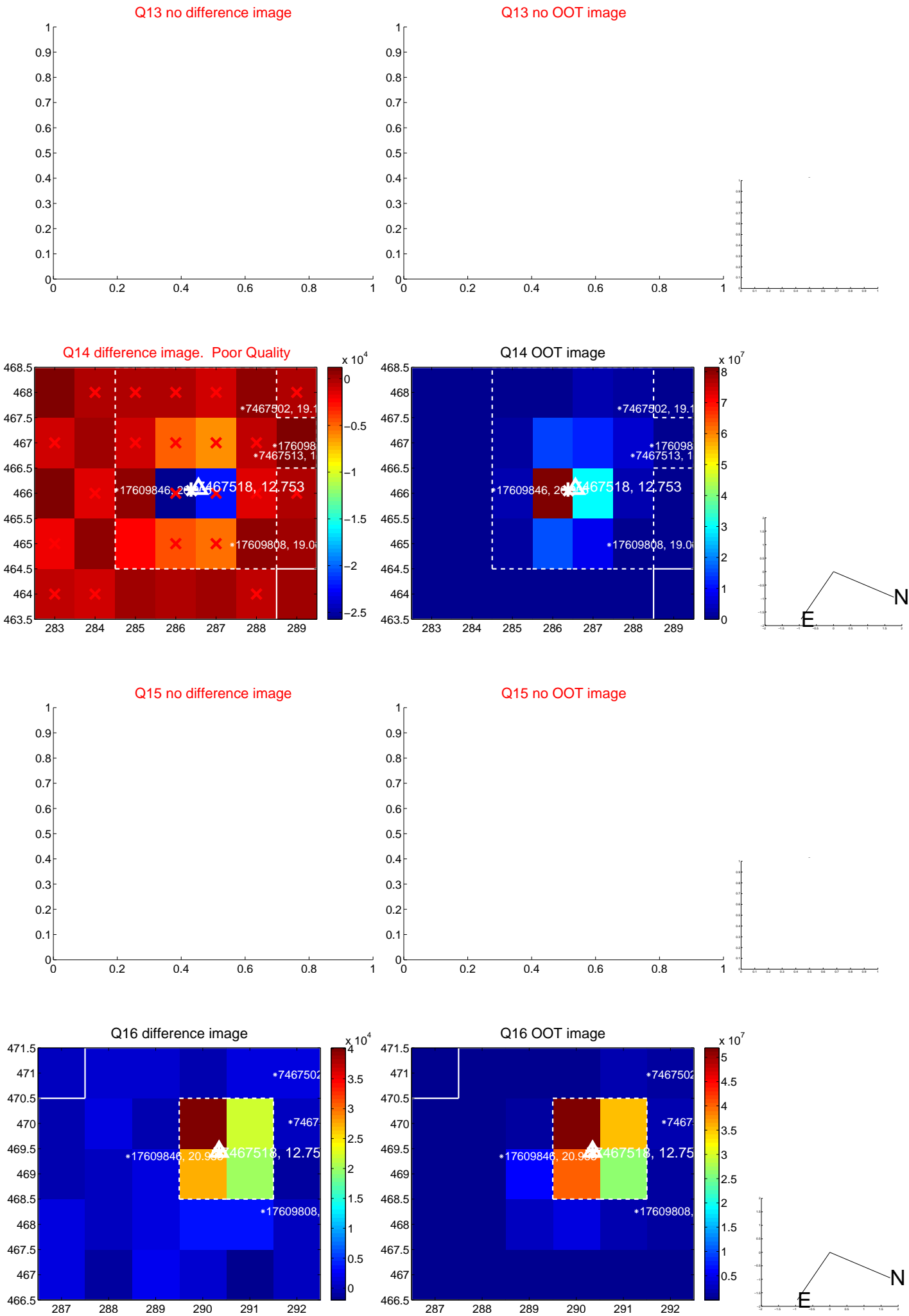
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



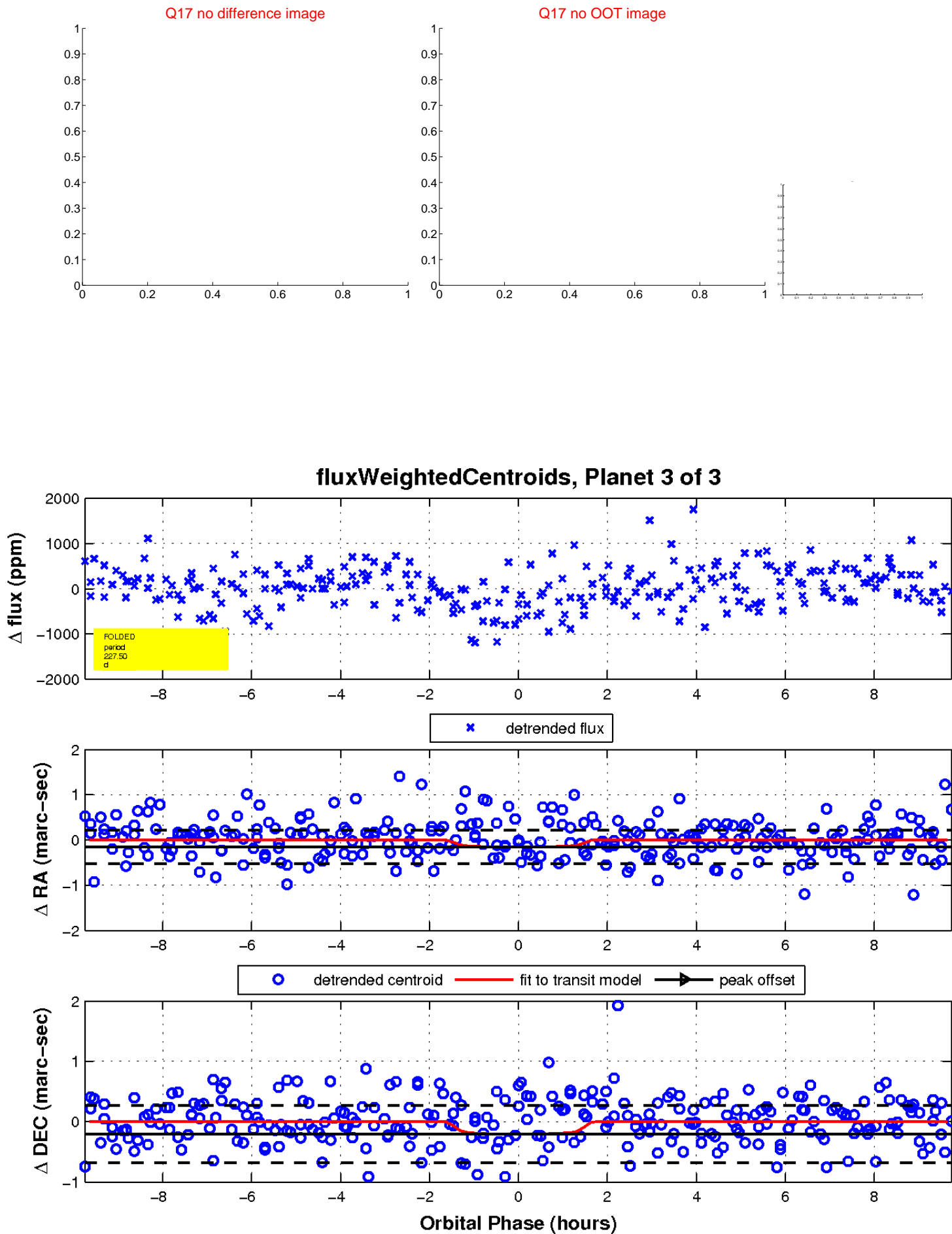
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

