

KIC 007938468

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})
007938468-01	OBS	6933.01	7.226850	136.146006	645208.8	12.000	952.0	-1.0	1.36	6270	9.26	458.20
007938468-02	OBS	No	7.226870	136.962479	2145.2	5.629	574.4	56.0	1.36	6270	11.56	458.20
007938468-03	OBS	No	7.226839	135.372937	1827.4	15.000	452.3	-1.0	1.36	6270	5.83	458.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007938468-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—MOD_SEC_ALT—MOD_ODDEVEN_ALT—CENT_NOFITS
007938468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—RESIDUAL_TCE—CENT_FEW_DIFFS
007938468-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_ALT—RESIDUAL_TCE—CENT_NOFITS—HALO_GHOST

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 007938468-01

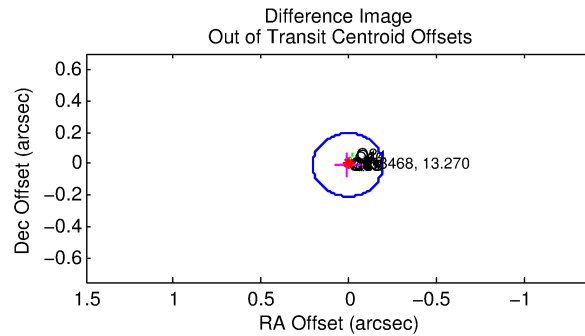
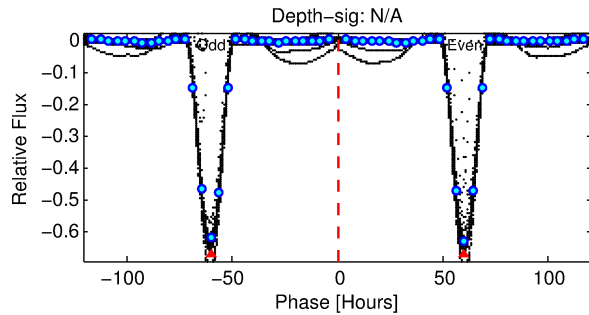
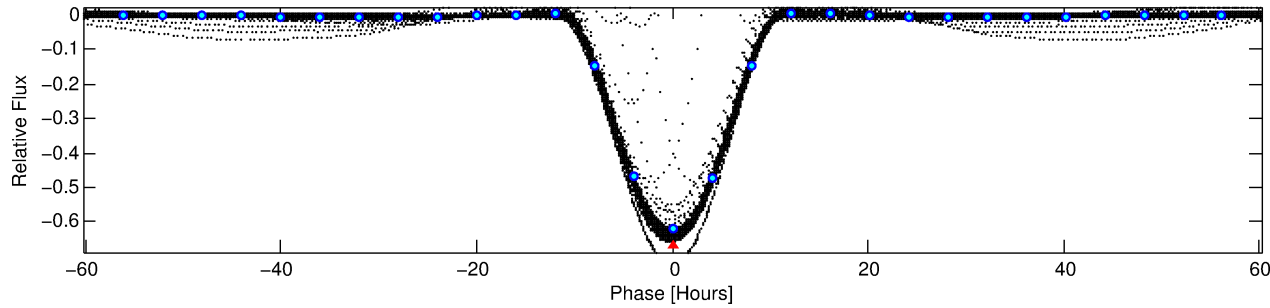
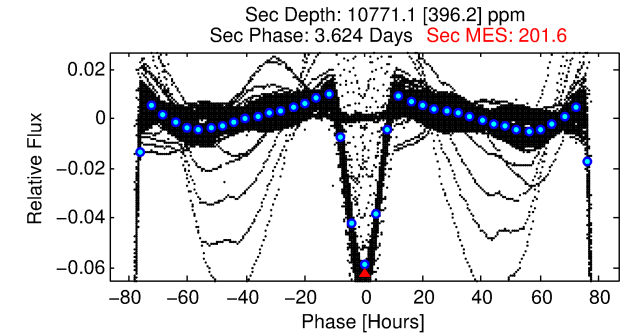
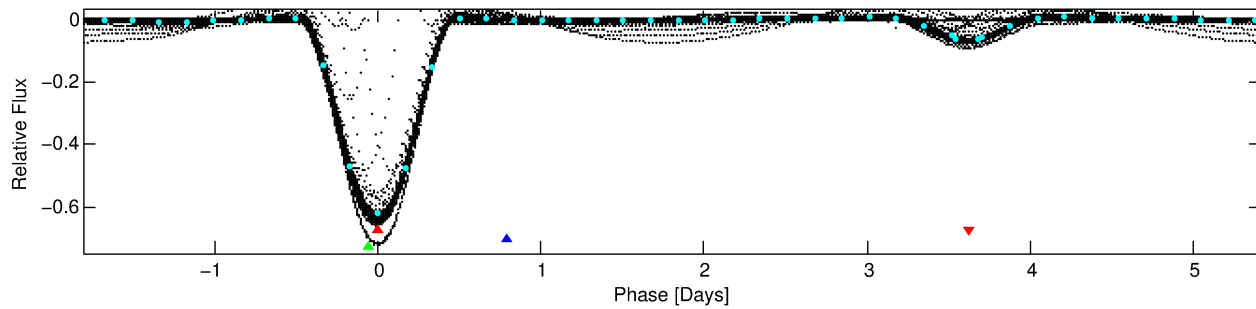
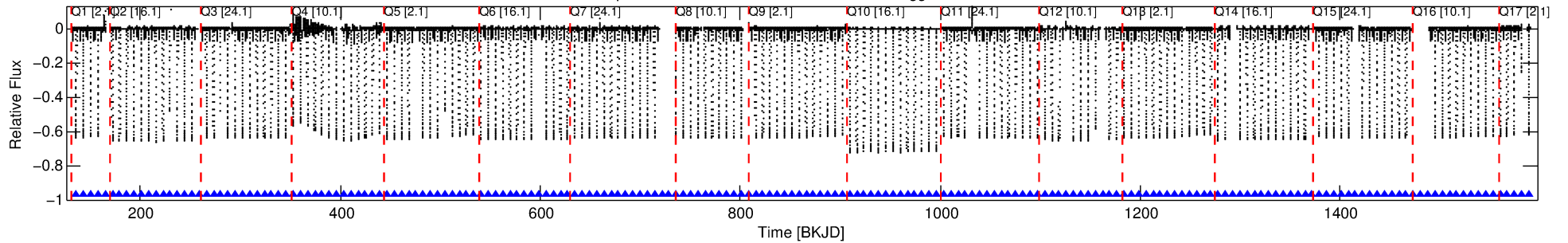
No Significant Match Found

DV One-Page Summary

KIC: 7938468 Candidate: 1 of 3 Period: 7.227 d

KOI: K06933 Corr: No Ephemeris Match

Kp: 13.27 R*: 1.36 Rs Teff: 6270.0 K Logg: 4.20 Fe/H: -0.220



TPS TCE Results:

Period = 7.22685 d
Epoch = 136.1460 BKJD

DV fit results are unavailable

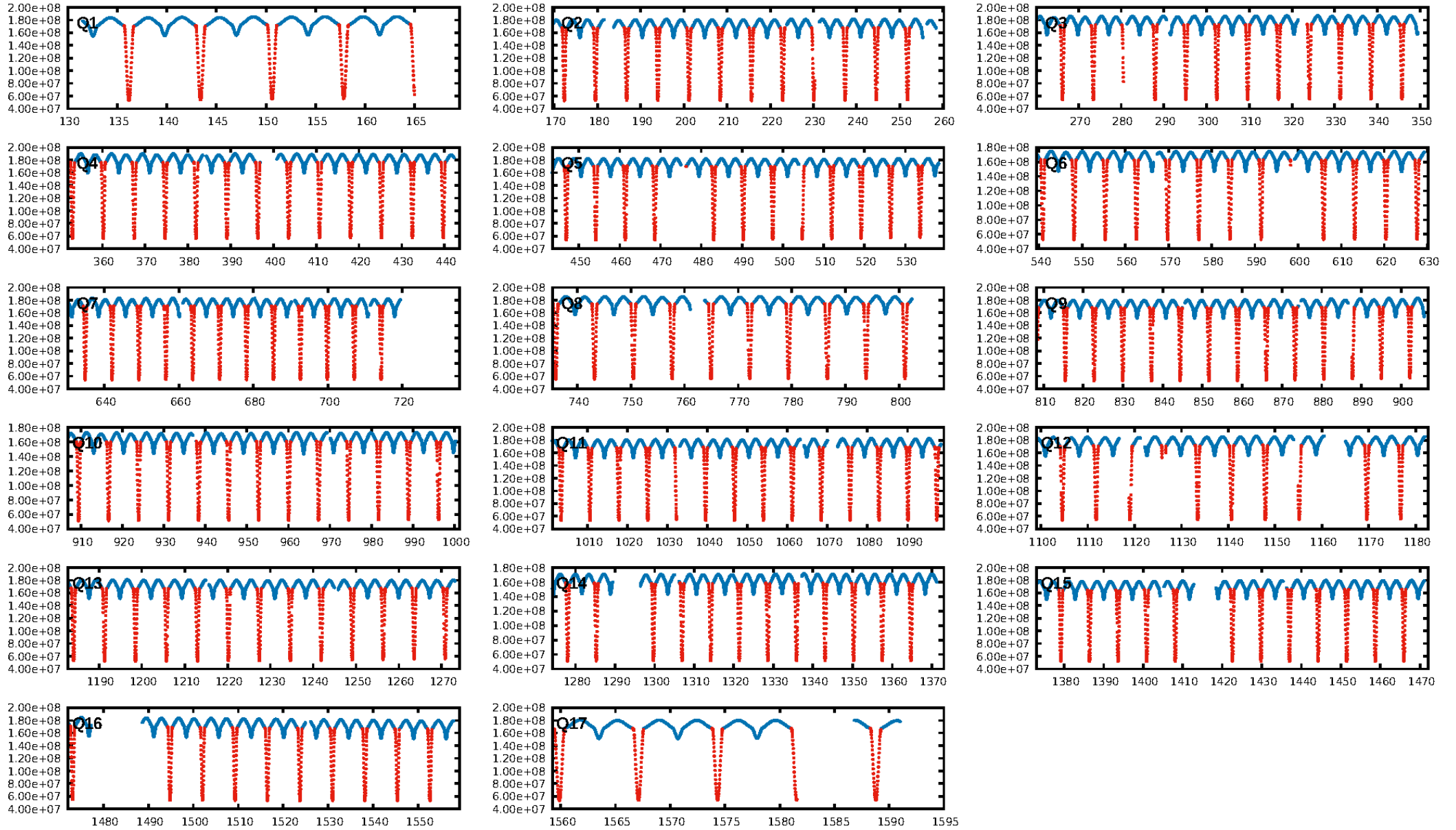
DV Diagnostic Results:

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: 1.00 [181/181]
GhostDiagnostic-chr: 1.542
Centroid-sig: N/A
Centroid-so: 0.118 arcsec [453.72 σ]
OotOffset-rm: 0.009 arcsec [0.14 σ]
KicOffset-rm: 0.088 arcsec [1.25 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]

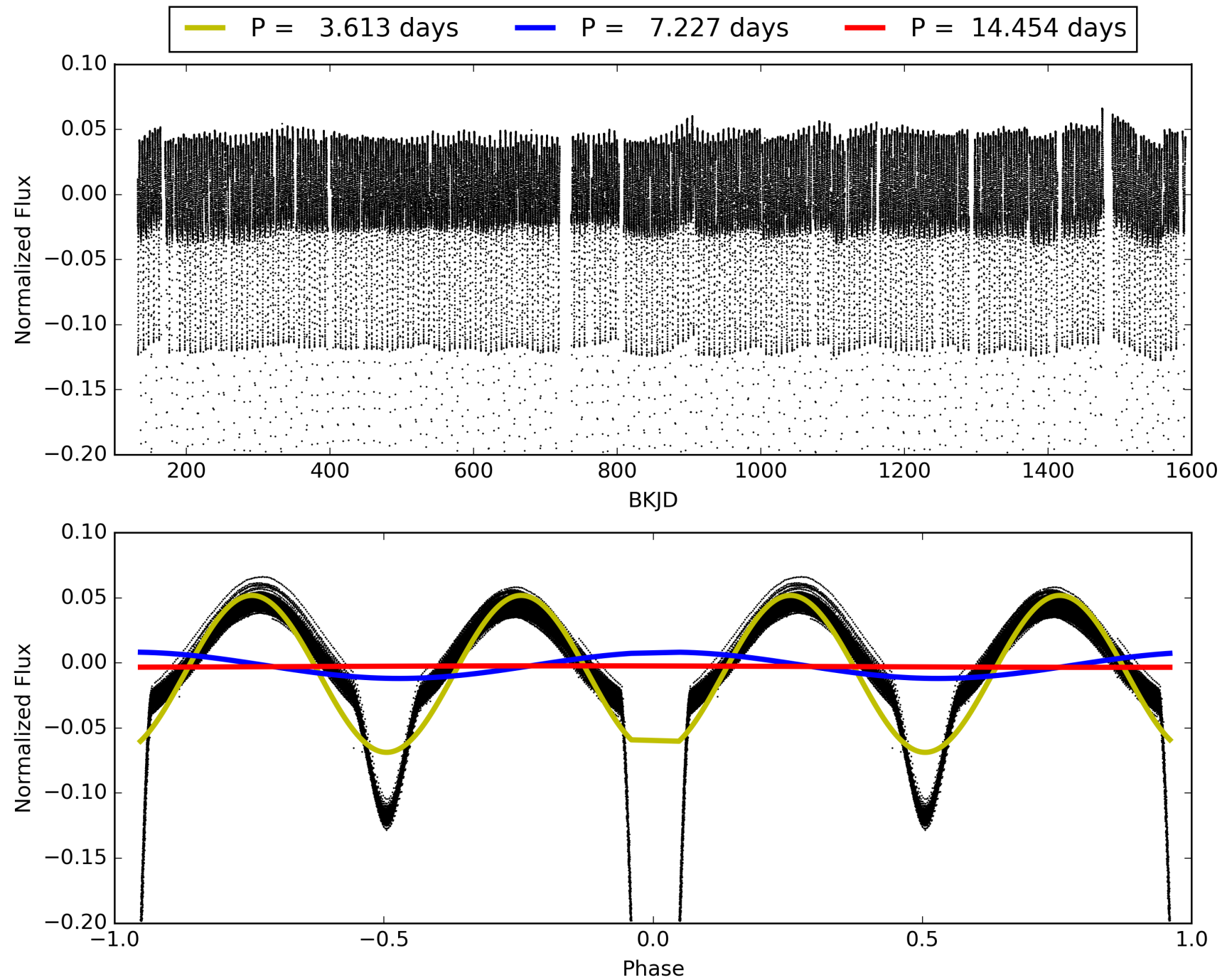
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:43:15 Z

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

TCE 007938468-01, PDC Light Curves

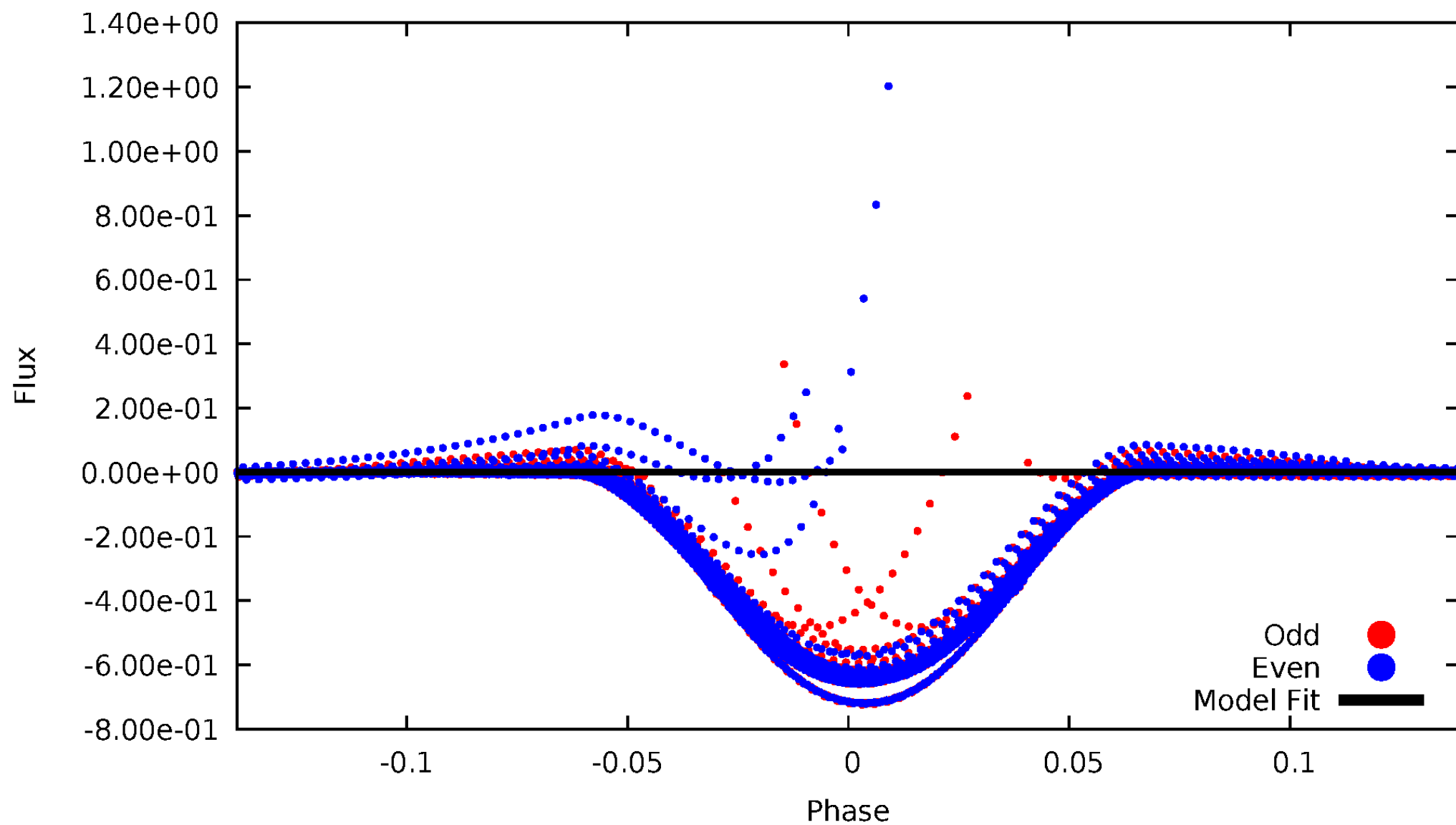


TCE 007938468-01



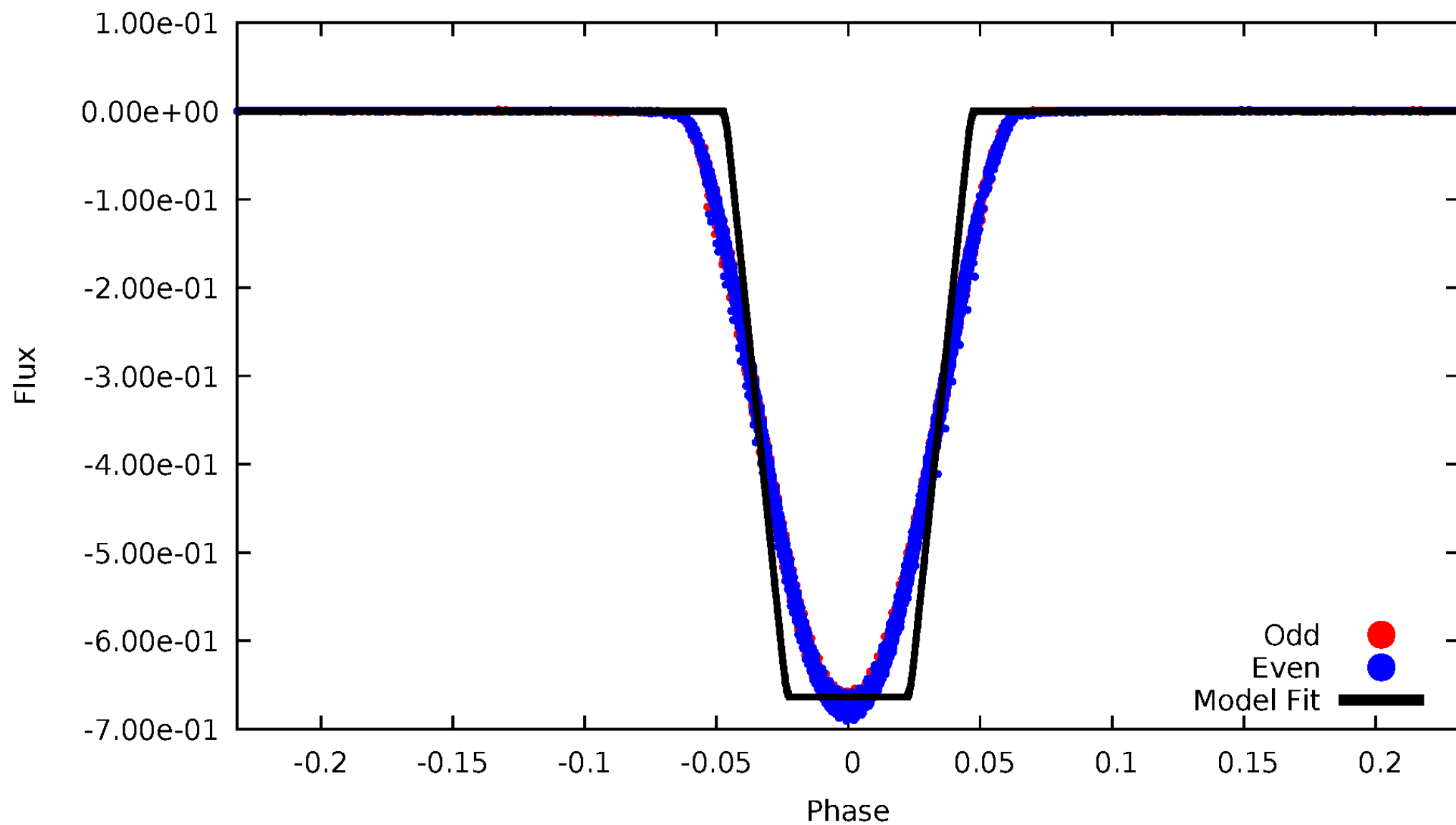
DV Odd/Even

TCE 007938468-01



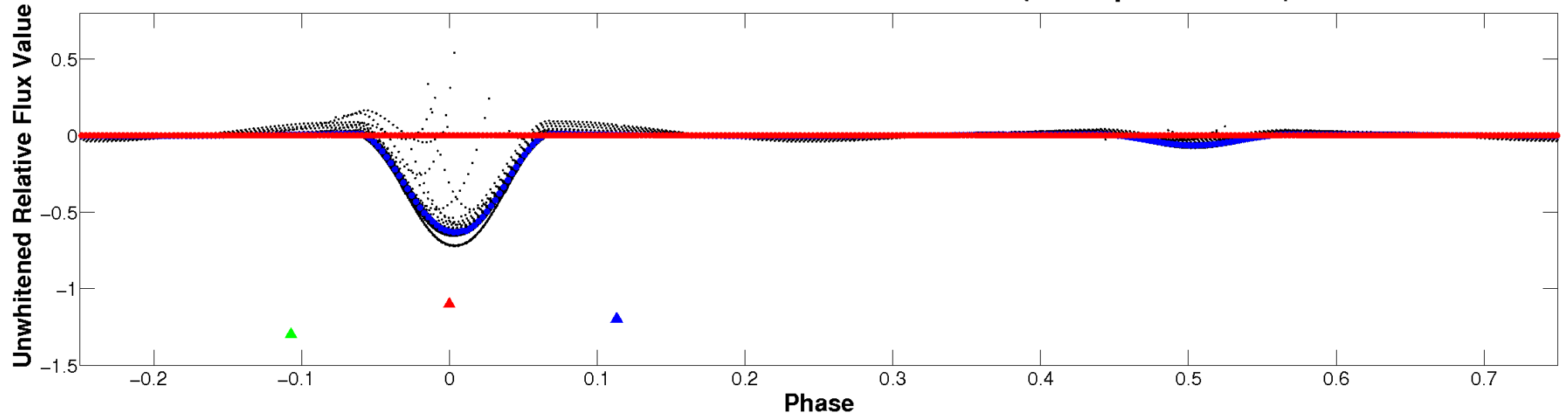
ALT Odd/Even

TCE 007938468-01



Non-Whitened Vs. Whitened Light Curve

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

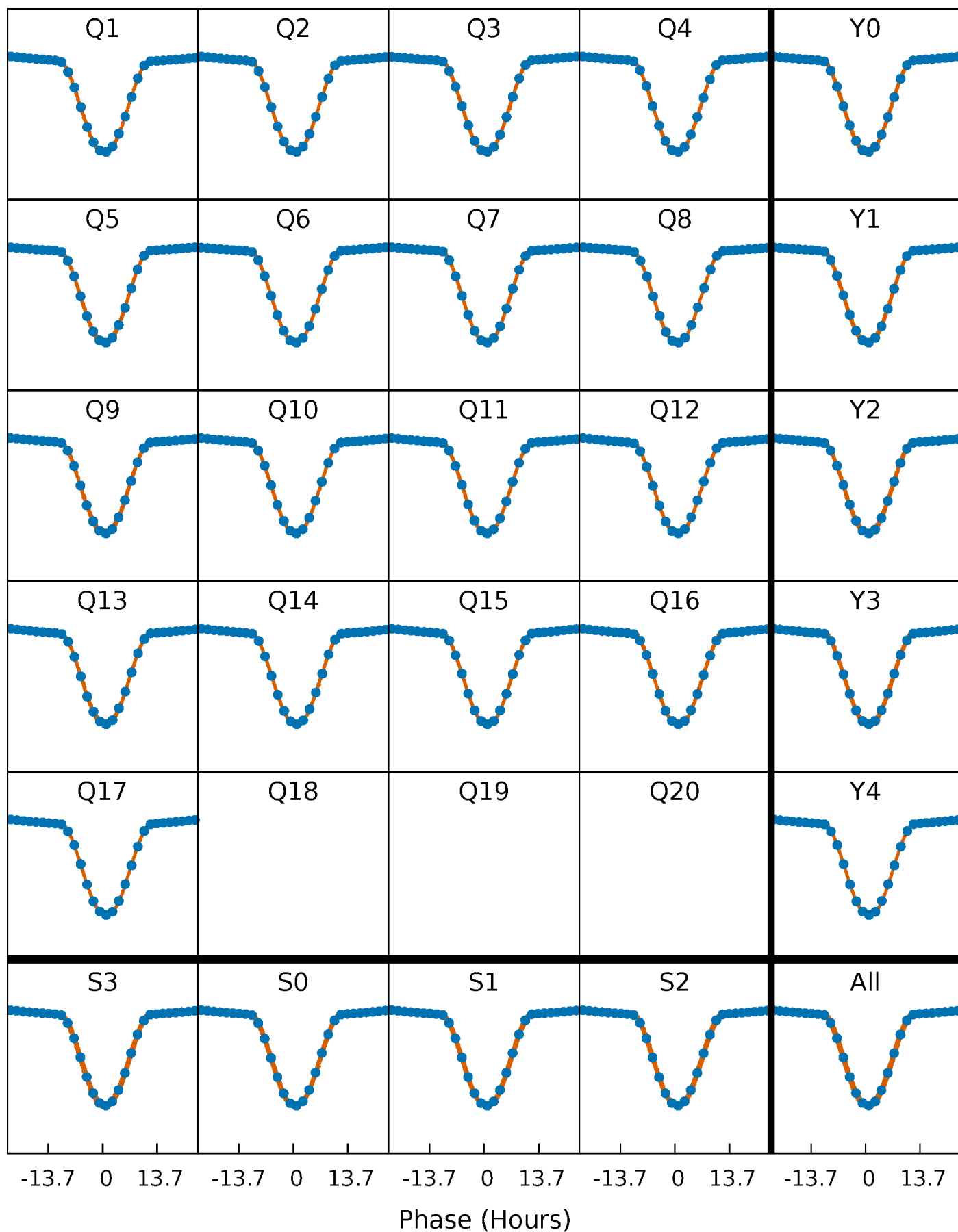


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



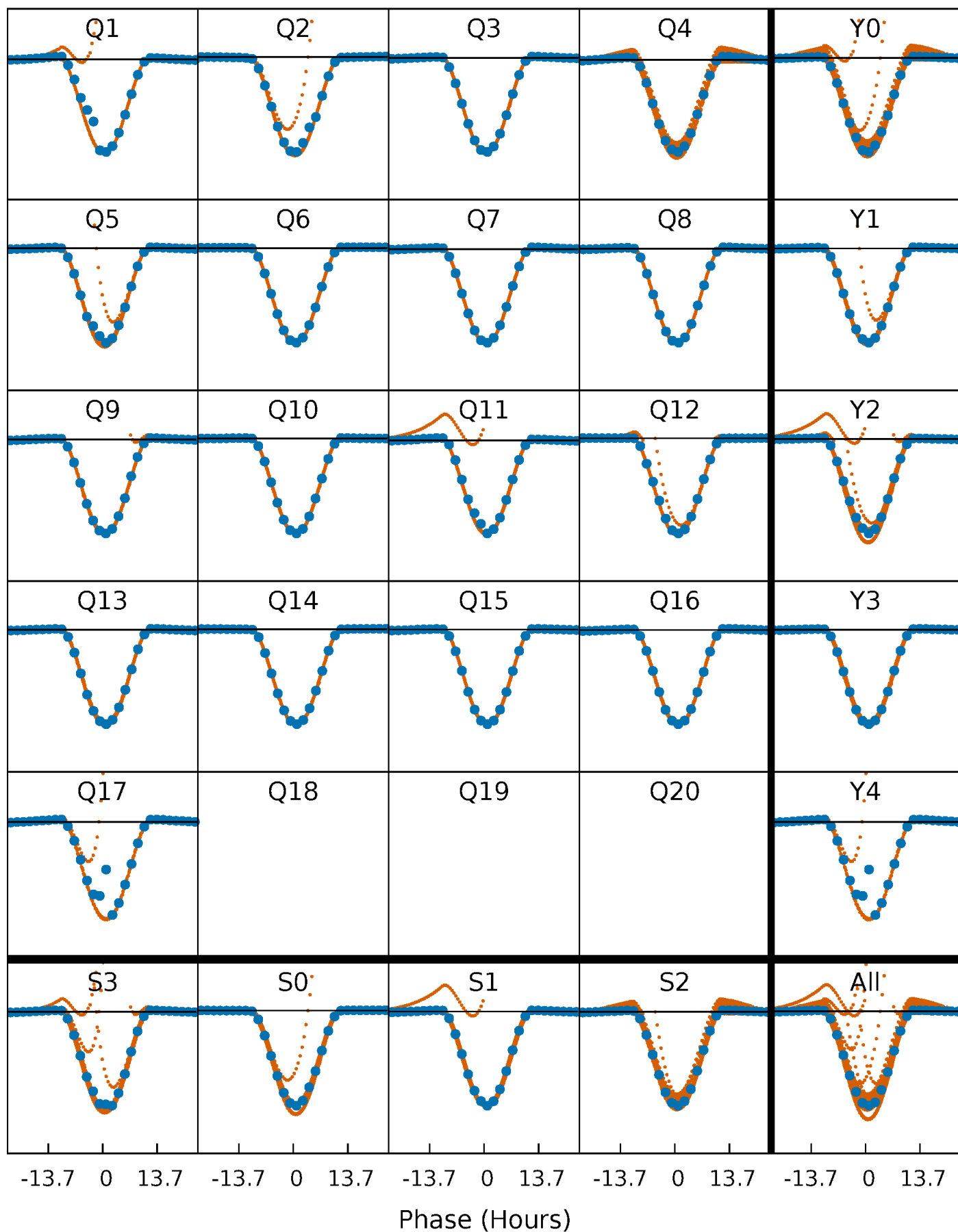
PDC Quarter-Phased Transit Curves

TCE 007938468-01 P= 7.226850 Days $T_0=136.146006$ (BKJD)



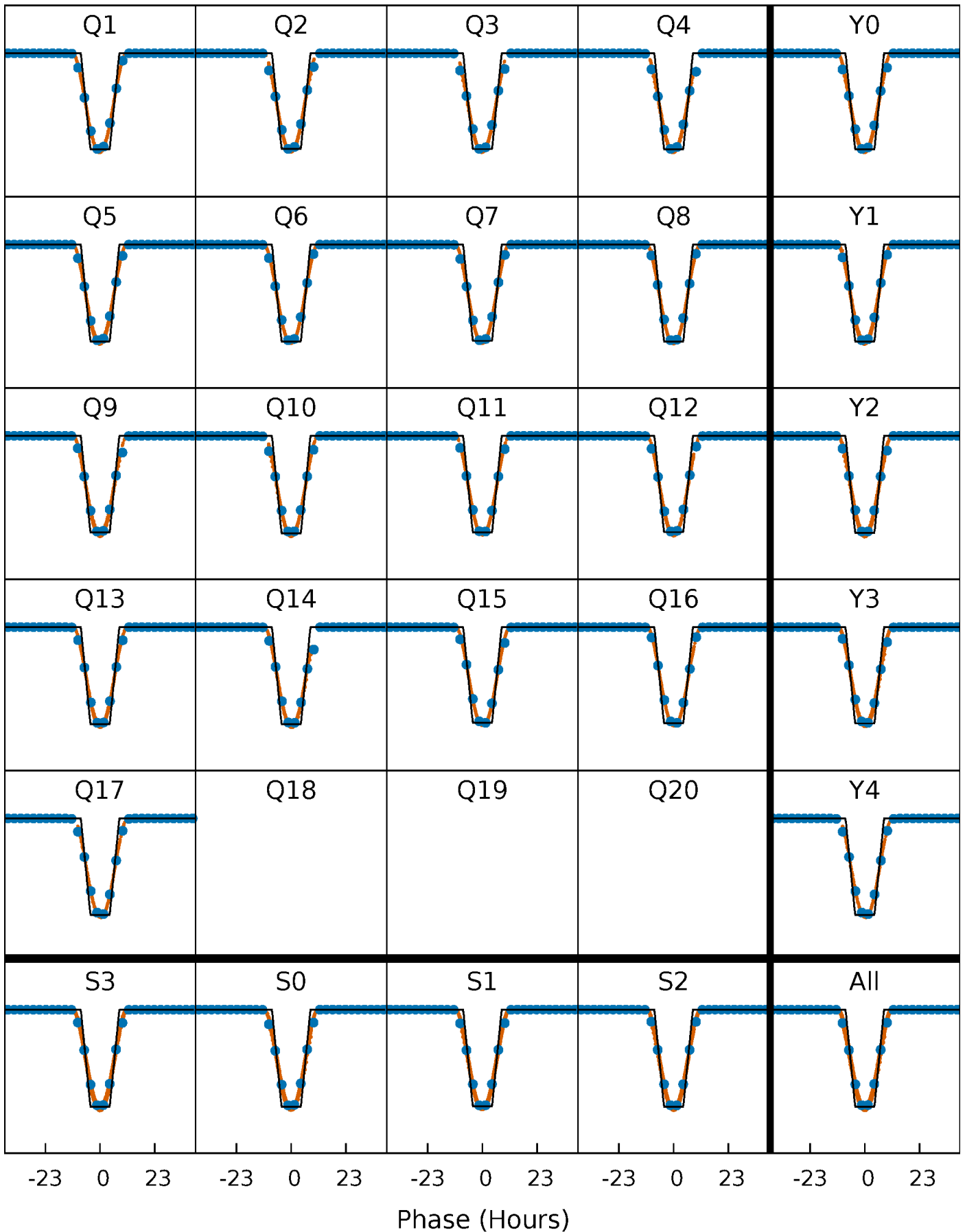
DV Quarter-Phased Transit Curves

TCE 007938468-01 P= 7.226850 Days $T_0=136.146006$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

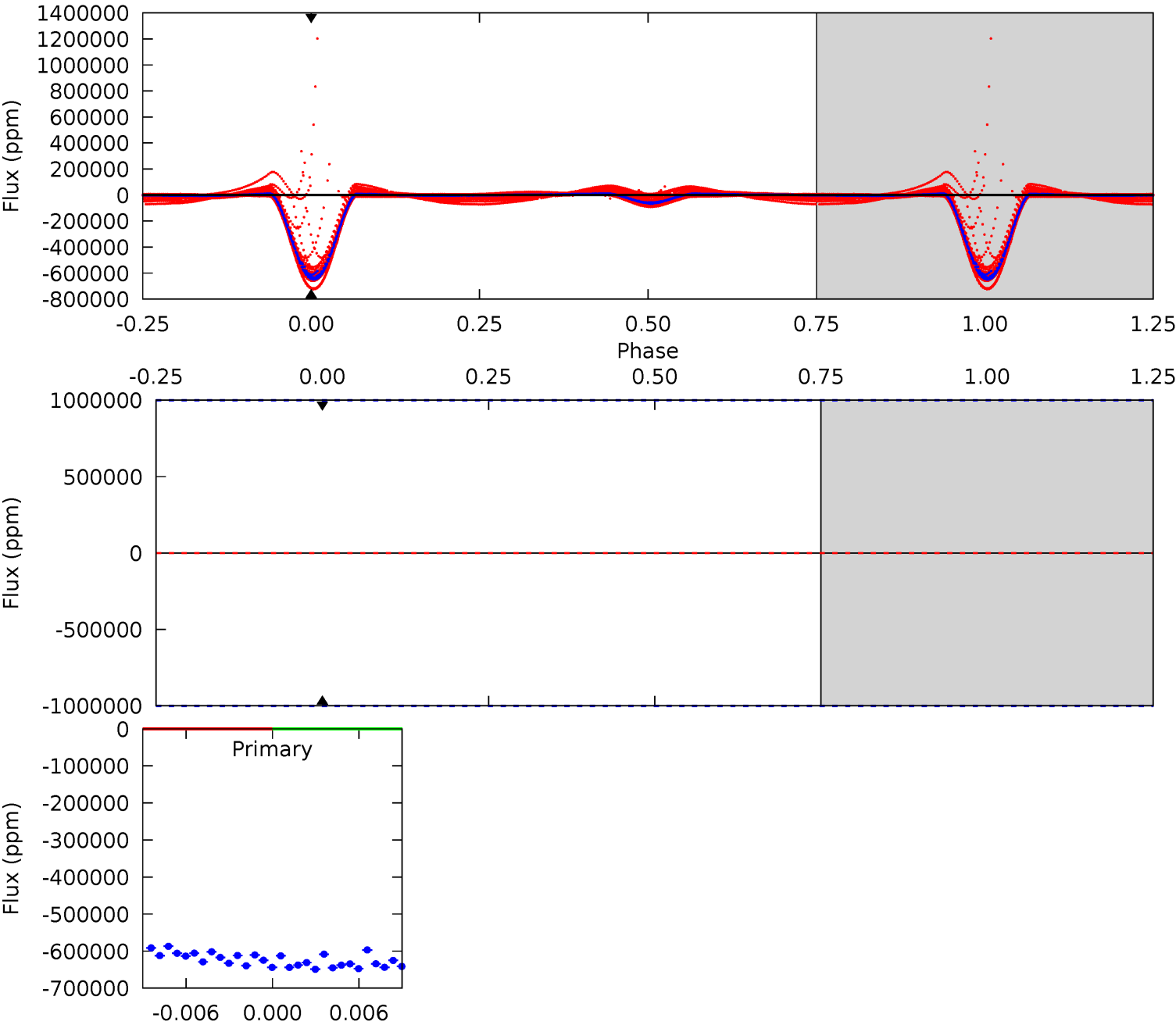
TCE 007938468-01 P= 7.226850 Days $T_0=136.172618$ (BKJD)



DV Model-Shift Uniqueness Test

007938468-01, P = 7.226850 Days, E = 128.919156 Days

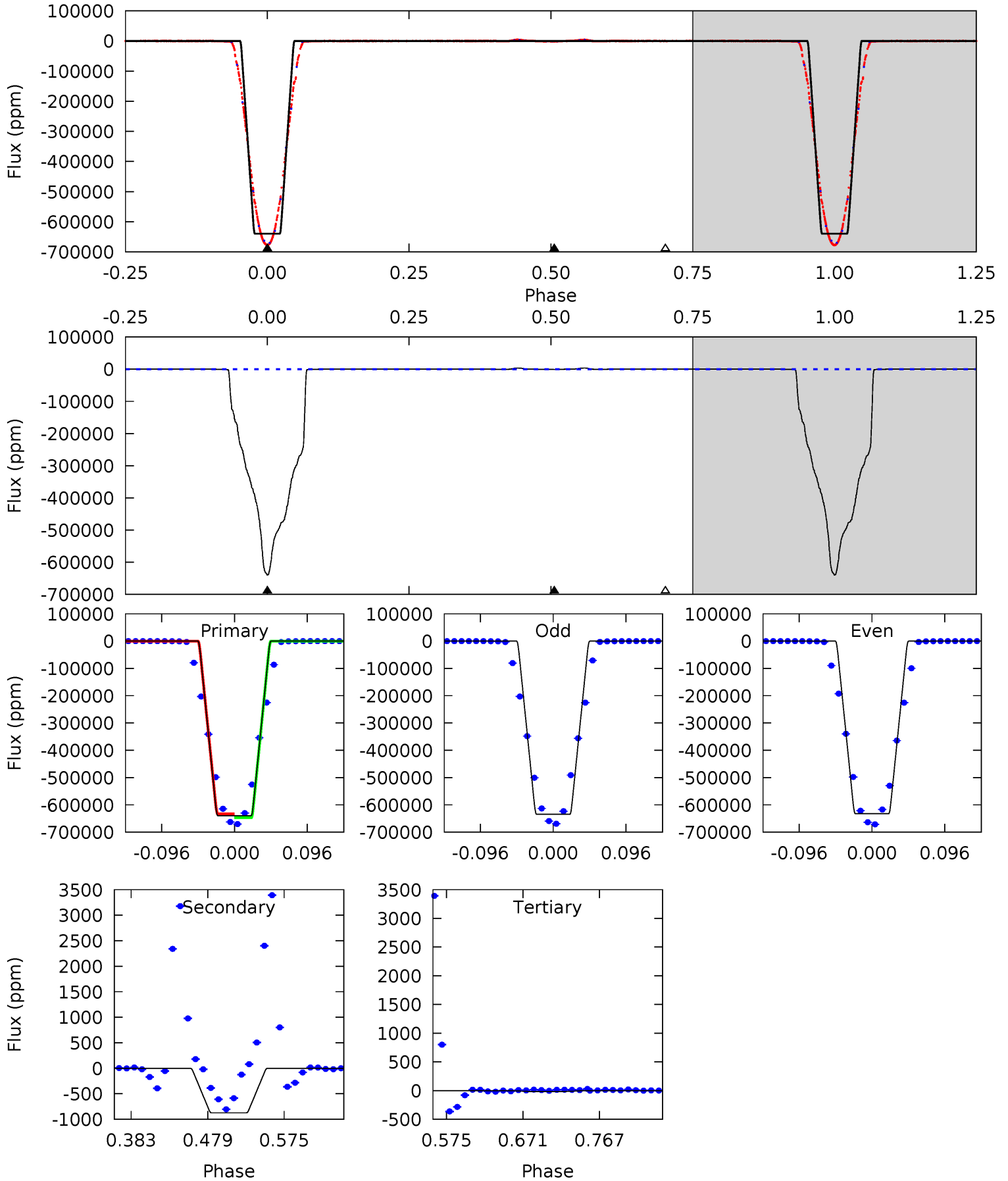
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007938468-01, P = 7.226850 Days, E = 128.945768 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
79488	108.5	1.88	0	4.57	1.67	3.14	79486	79488	106.7	108.5	117.8	1.00	0.01	0



Stellar Parameters For KIC 007938468

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6270^{+188}_{-206}	$4.199^{+0.209}_{-0.171}$	$-0.220^{+0.300}_{-0.300}$	$1.360^{+0.395}_{-0.323}$	$1.064^{+0.185}_{-0.123}$	$0.596^{+0.628}_{-0.311}$
	+3%/-3%	+5%/-4%	+136%/-136%	+29%/-24%	+17%/-12%	+105%/-52%
Source	PHO1	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 007938468-01 / KOI 6933.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$13.80^{+13.50}_{-9.48}$	1632^{+124}_{-119}	2665^{+16625}_{-21038}	$1.958^{+2759.195}_{-2912.419}$
Alt.	-873 ± 8	$120.29^{+25.34}_{-21.34}$	1635^{+133}_{-120}	-2037^{+337}_{-154}	$0.188^{+0.092}_{-0.057}$

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

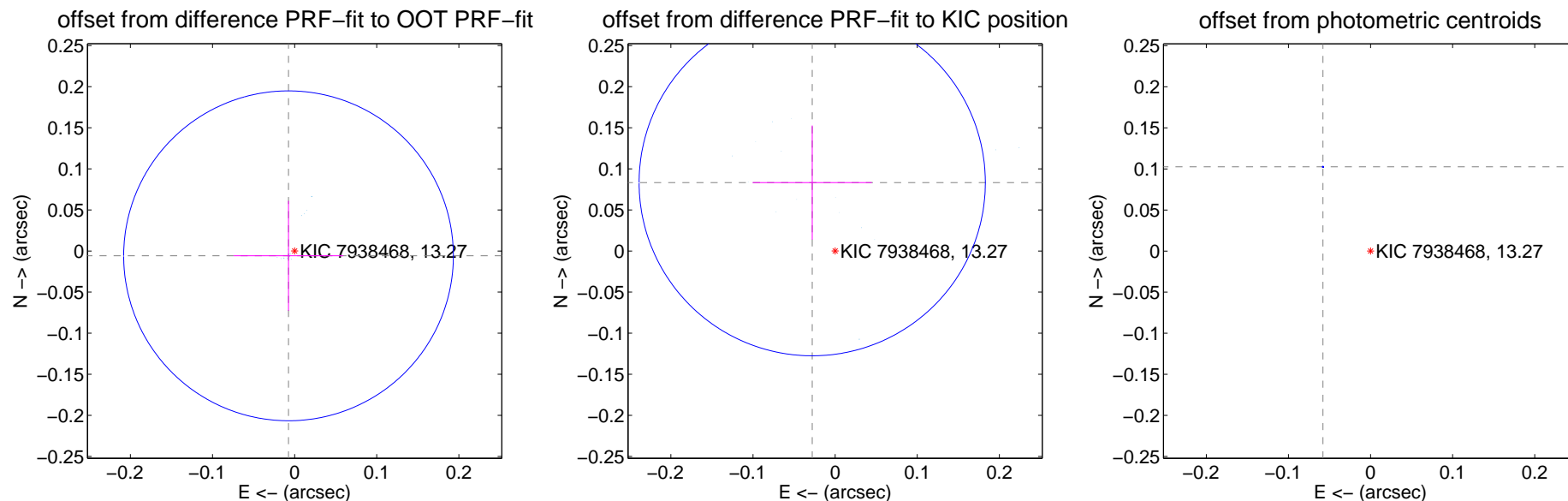
DV Centroid Data

Supplemental centroid analysis for 007938468-01. Kepler magnitude: 13.27. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

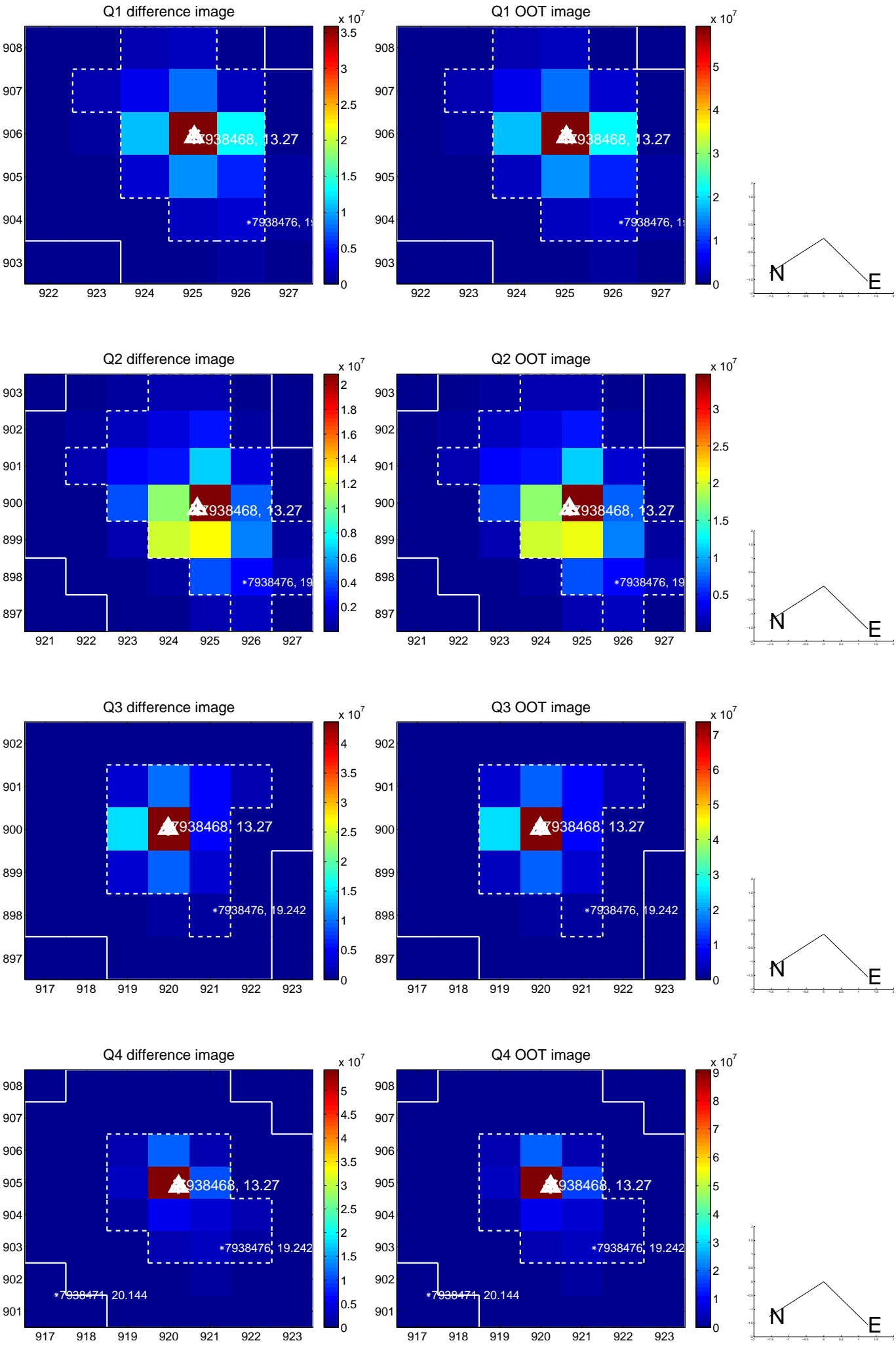
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.009 ± 0.067	0.14	0.007 ± 0.067	-0.006 ± 0.067
PRF-fit source offset from KIC position	0.088 ± 0.070	1.25	0.028 ± 0.073	0.083 ± 0.069
photometric centroid source offset	0.12 ± 0.00	453.72	0.06 ± 0.00	0.10 ± 0.00

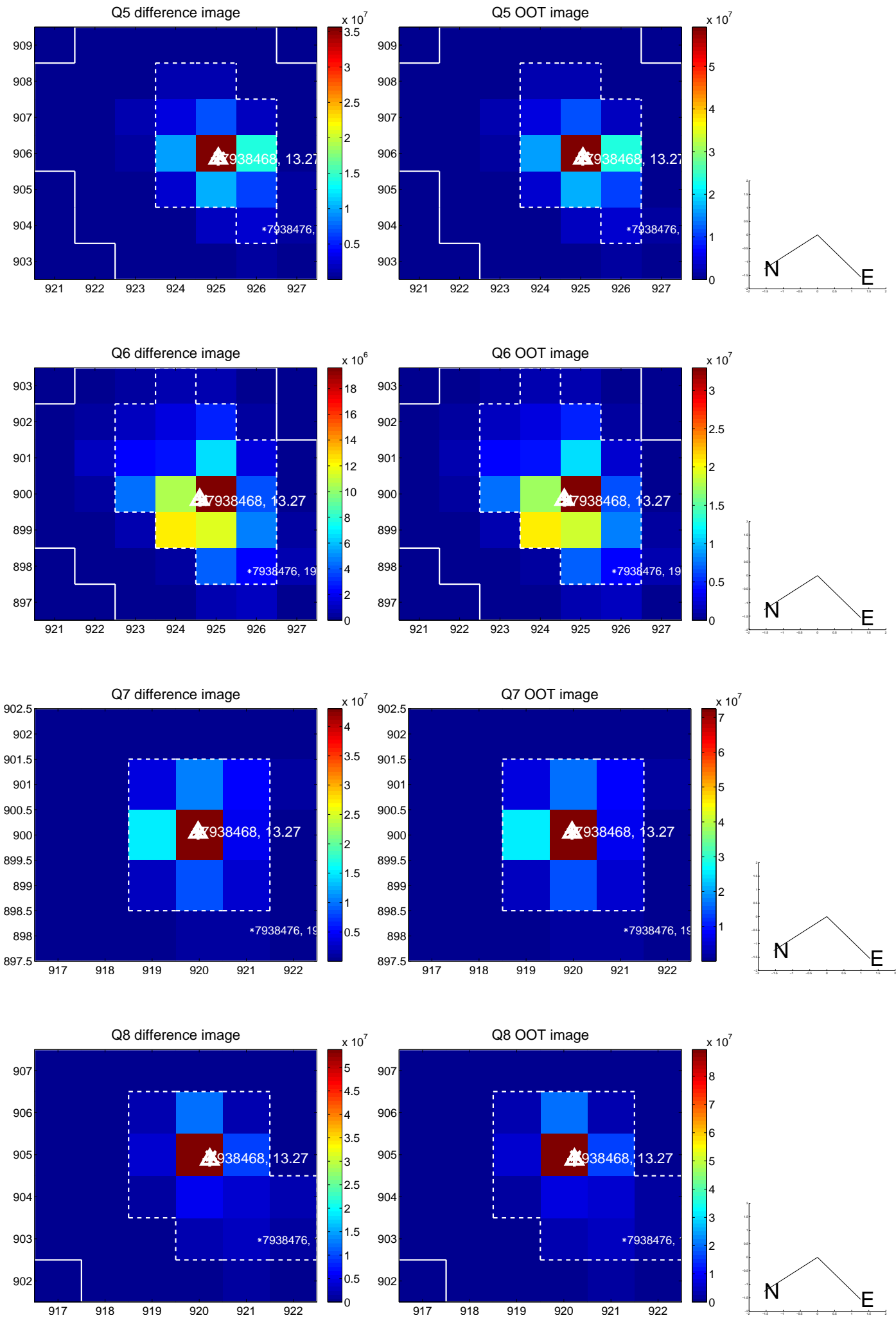


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

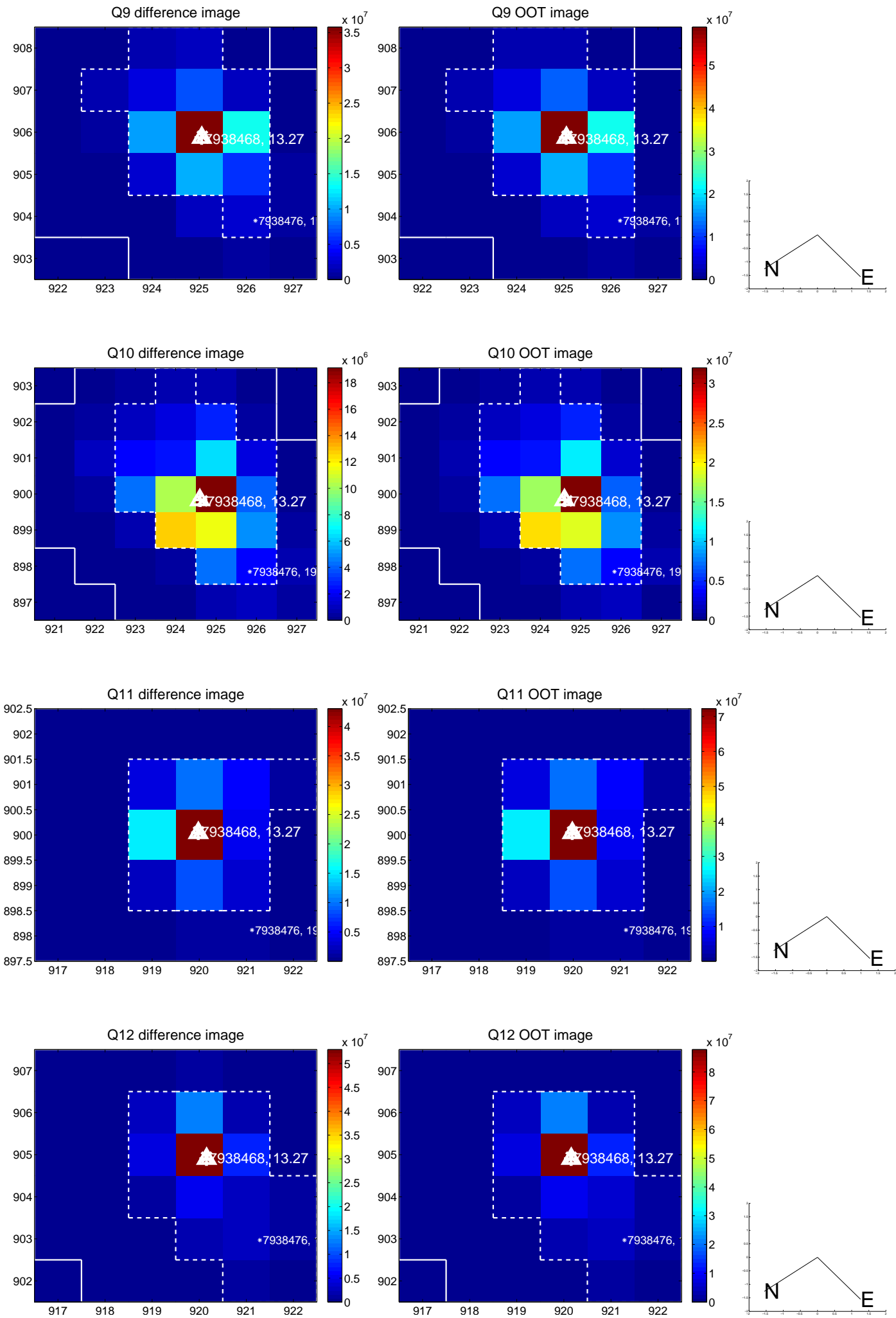
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



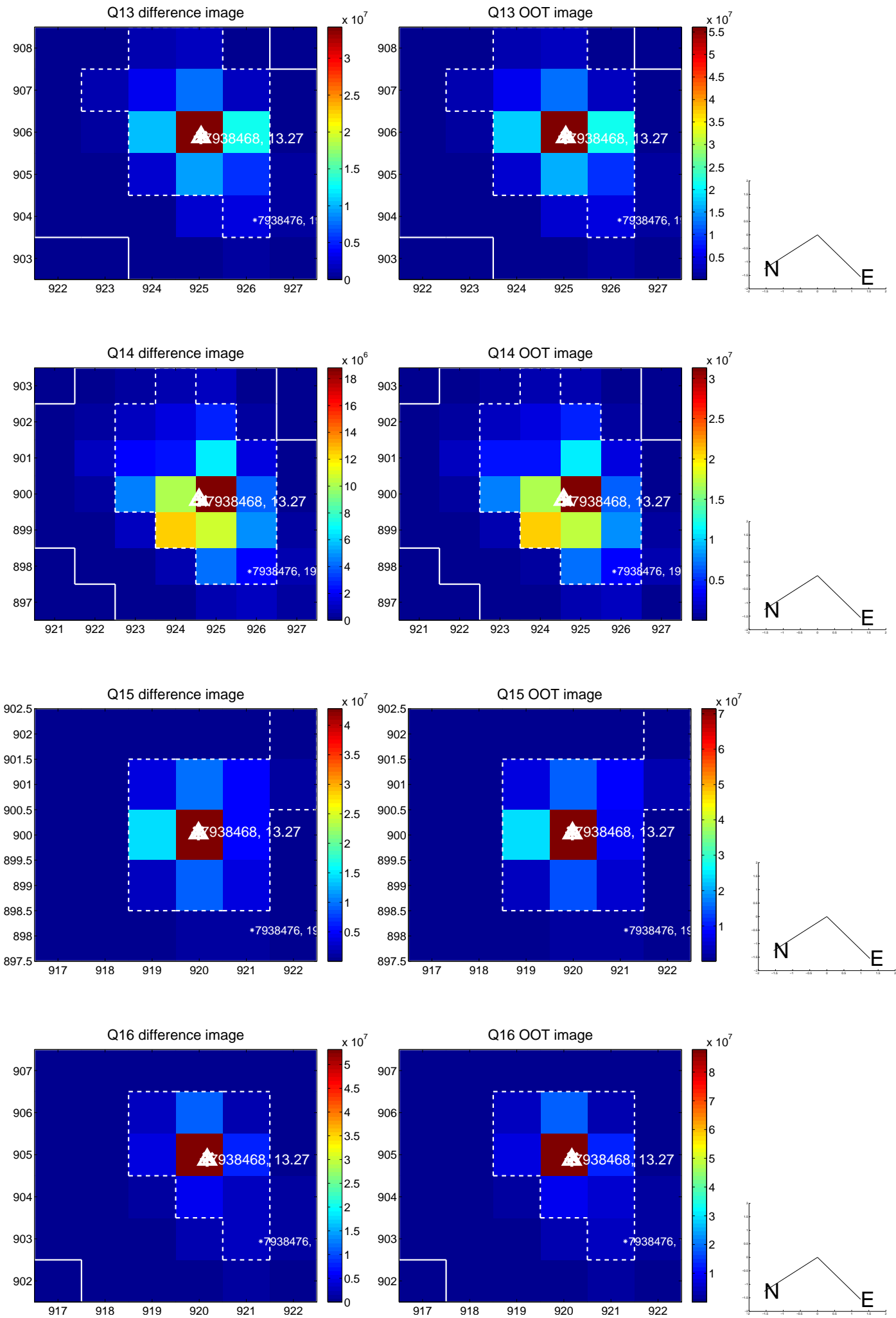
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



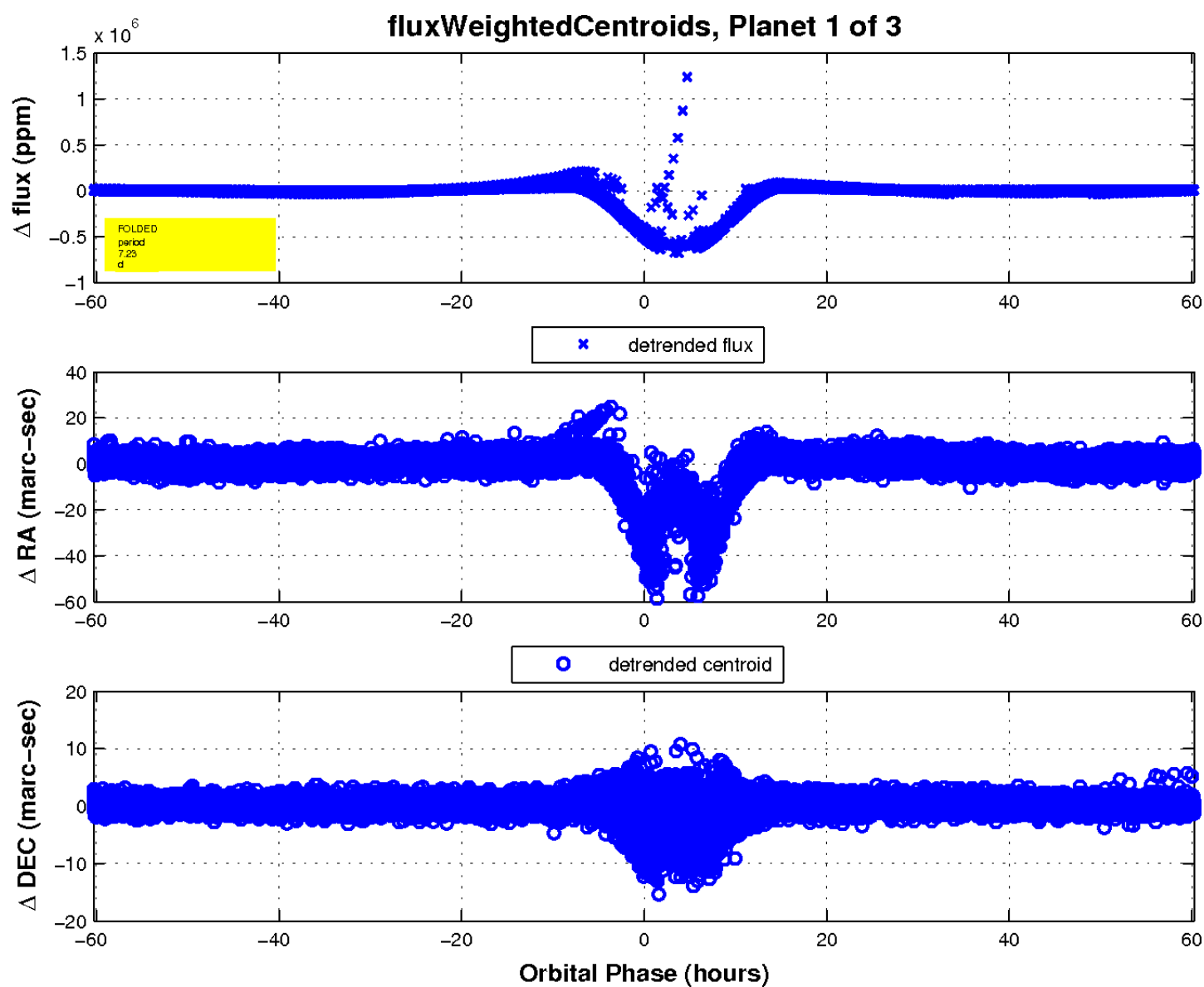
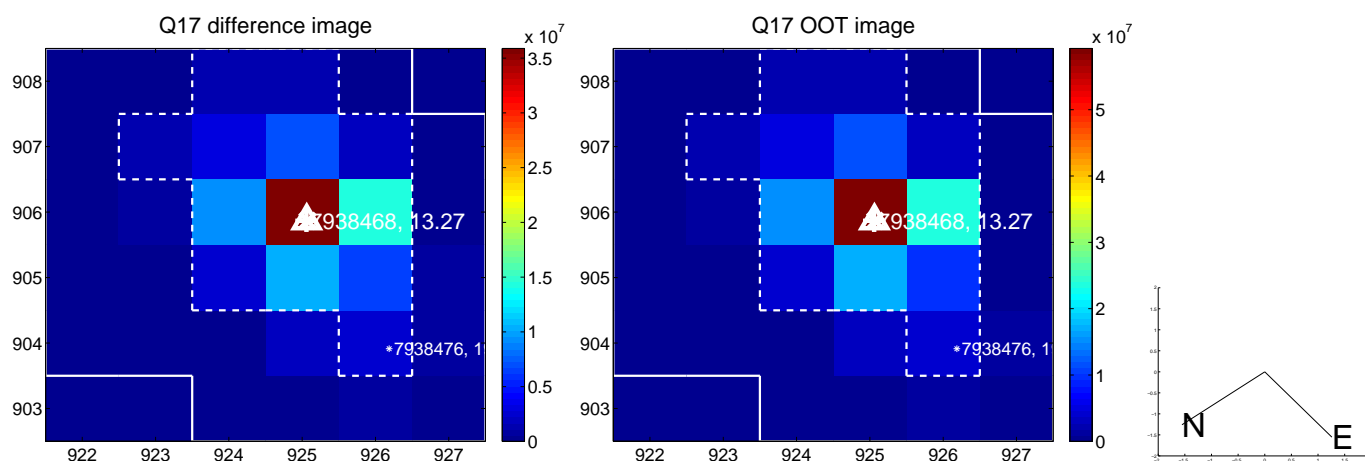
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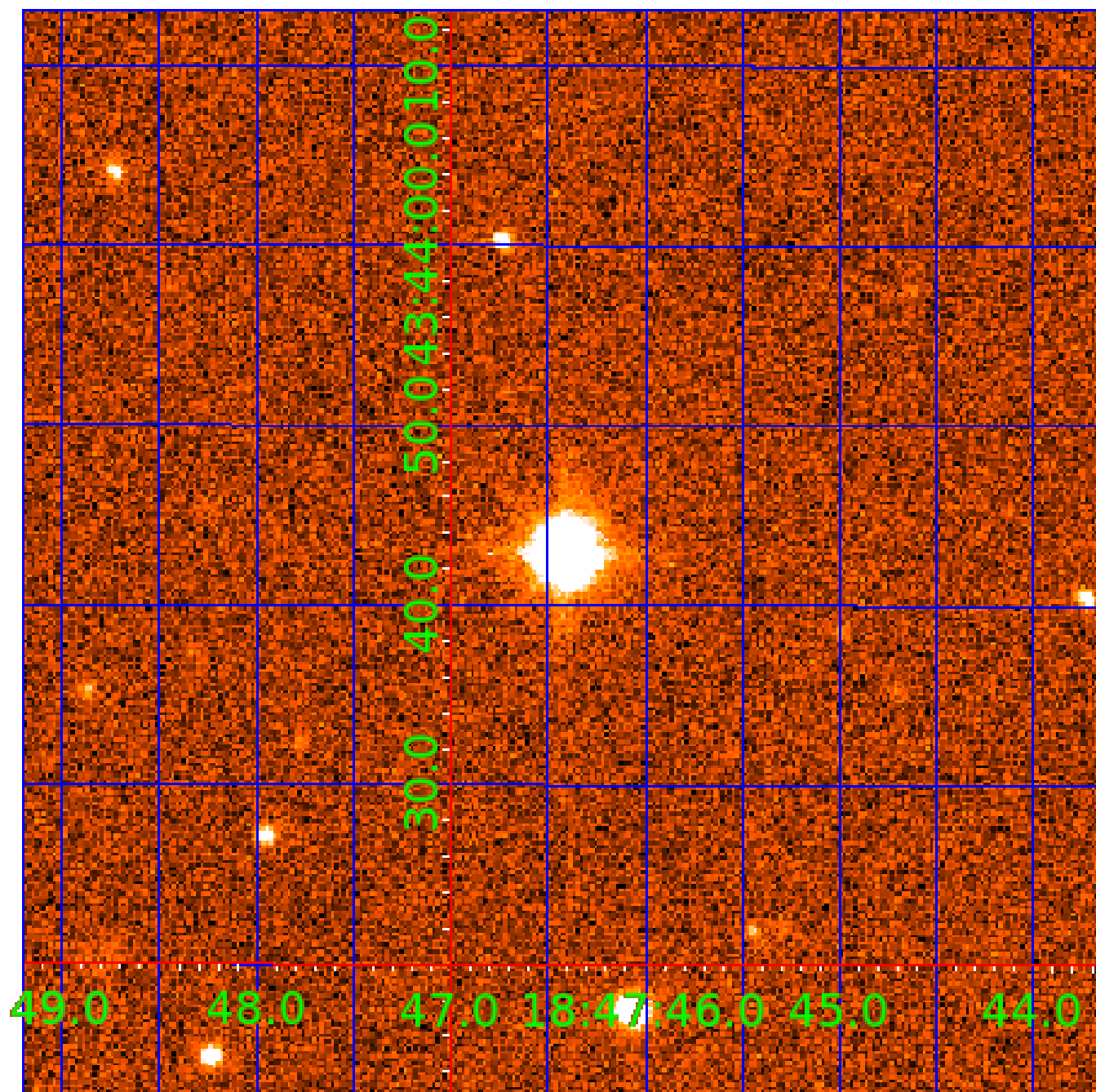


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



UKIRT Image

Declination



KIC 007938468

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})
007938468-01	OBS	6933.01	7.226850	136.146006	645208.8	12.000	952.0	-1.0	1.36	6270	9.26	458.20
007938468-02	OBS	No	7.226870	136.962479	2145.2	5.629	574.4	56.0	1.36	6270	11.56	458.20
007938468-03	OBS	No	7.226839	135.372937	1827.4	15.000	452.3	-1.0	1.36	6270	5.83	458.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007938468-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—MOD_SEC_ALT—MOD_ODDEVEN_ALT—CENT_NOFITS
007938468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—RESIDUAL_TCE—CENT_FEW_DIFFS
007938468-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_ALT—RESIDUAL_TCE—CENT_NOFITS—HALO_GHOST

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.

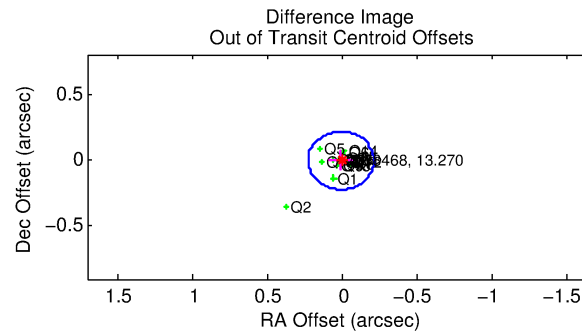
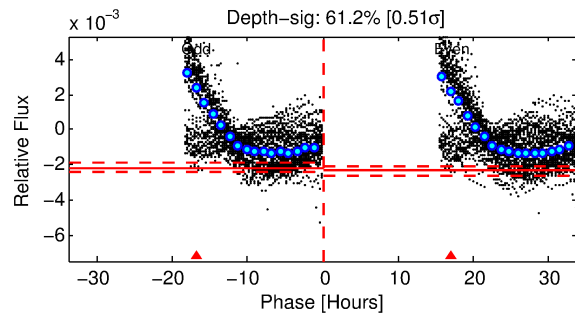
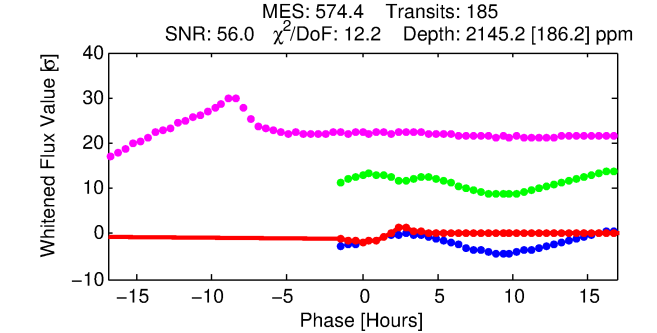
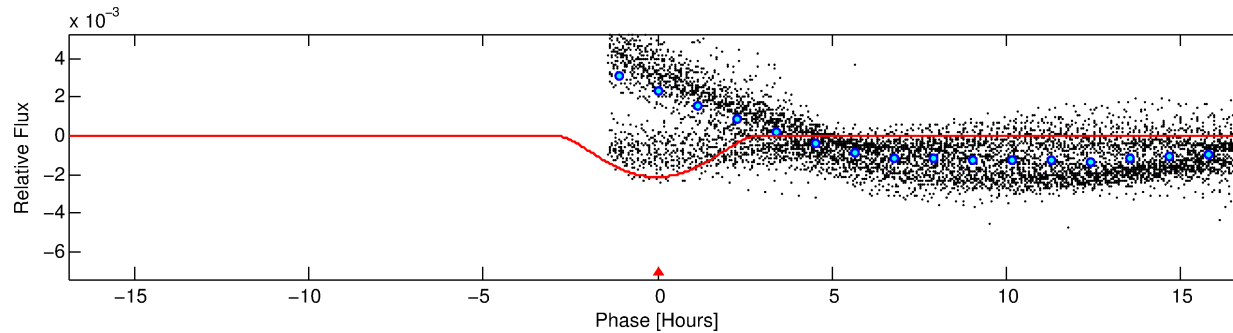
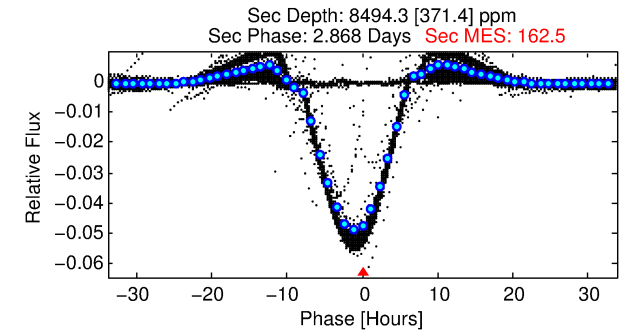
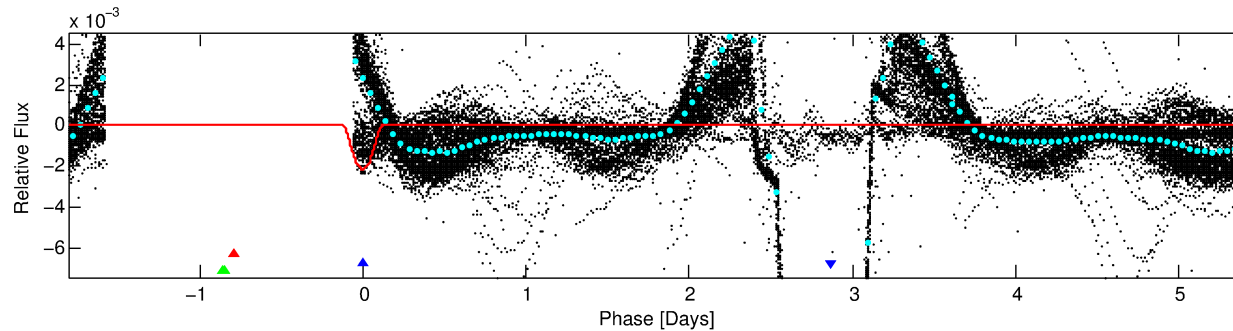
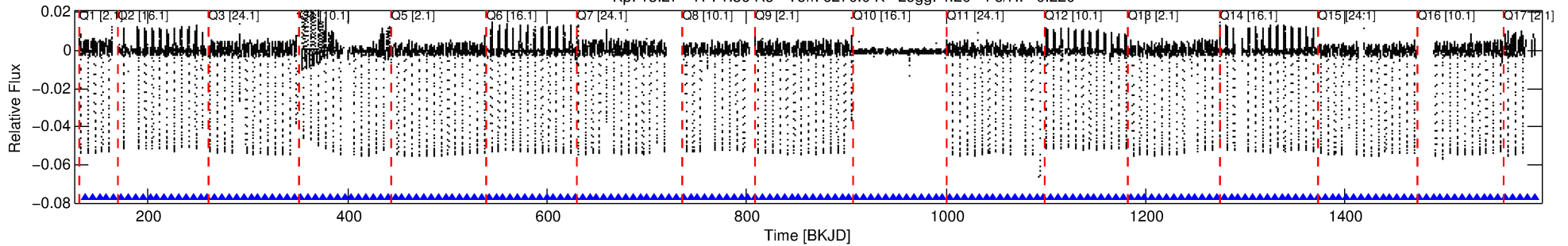
Ephemeris Match Information For 007938468-02

No Significant Match Found

DV One-Page Summary

KIC: 7938468 Candidate: 2 of 3 Period: 7.227 d
KOI: K06933 Corr: No Ephemeris Match

Kp: 13.27 R*: 1.36 Rs Teff: 6270.0 K Logg: 4.20 Fe/H: -0.220



DV Fit Results:

Period = 7.22687 [0.00005] d
Epoch = 136.9625 [0.0072] BKJD
Rp/R* = 0.0779 [0.0607]
a/R* = 4.11 [0.71]
b = 1.00 [0.09]
Seff = 458.20 [181.95]
Teff = 1180 [117] K
Rp = 11.56 [9.61] Re
a = 0.0748 [0.0188] AU
Ag = 195.55 [313.55] [0.62σ]
Teffp = 6821 [2668] K [2.11σ]

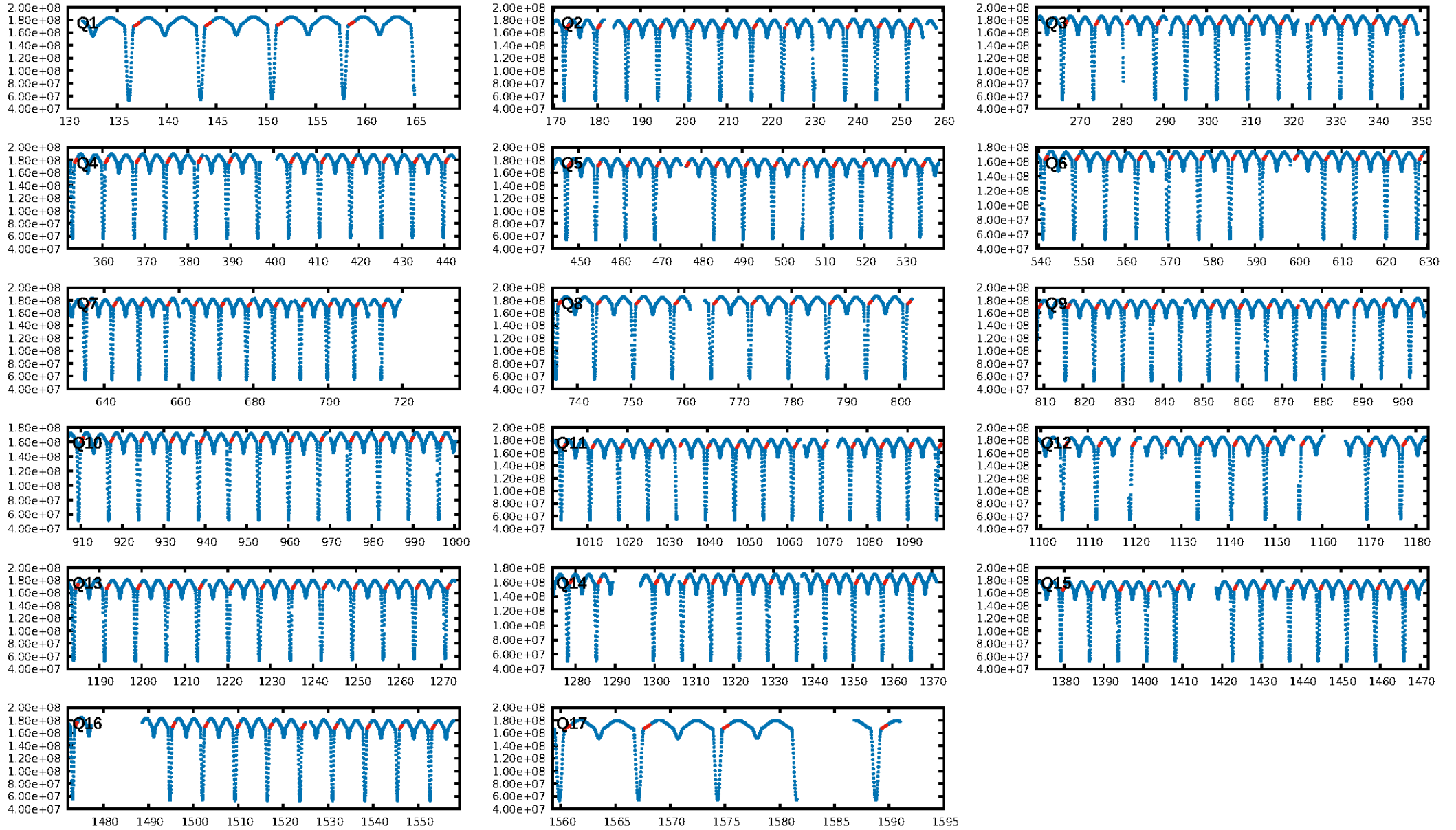
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [177/177]
GhostDiagnostic-chr: -0.9445
Centroid-sig: N/A
Centroid-so: 0.016 arcsec [0.38σ]
OotOffset-rm: 0.006 arcsec [0.08σ]
KicOffset-rm: 0.091 arcsec [1.23σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.00 [0/17]

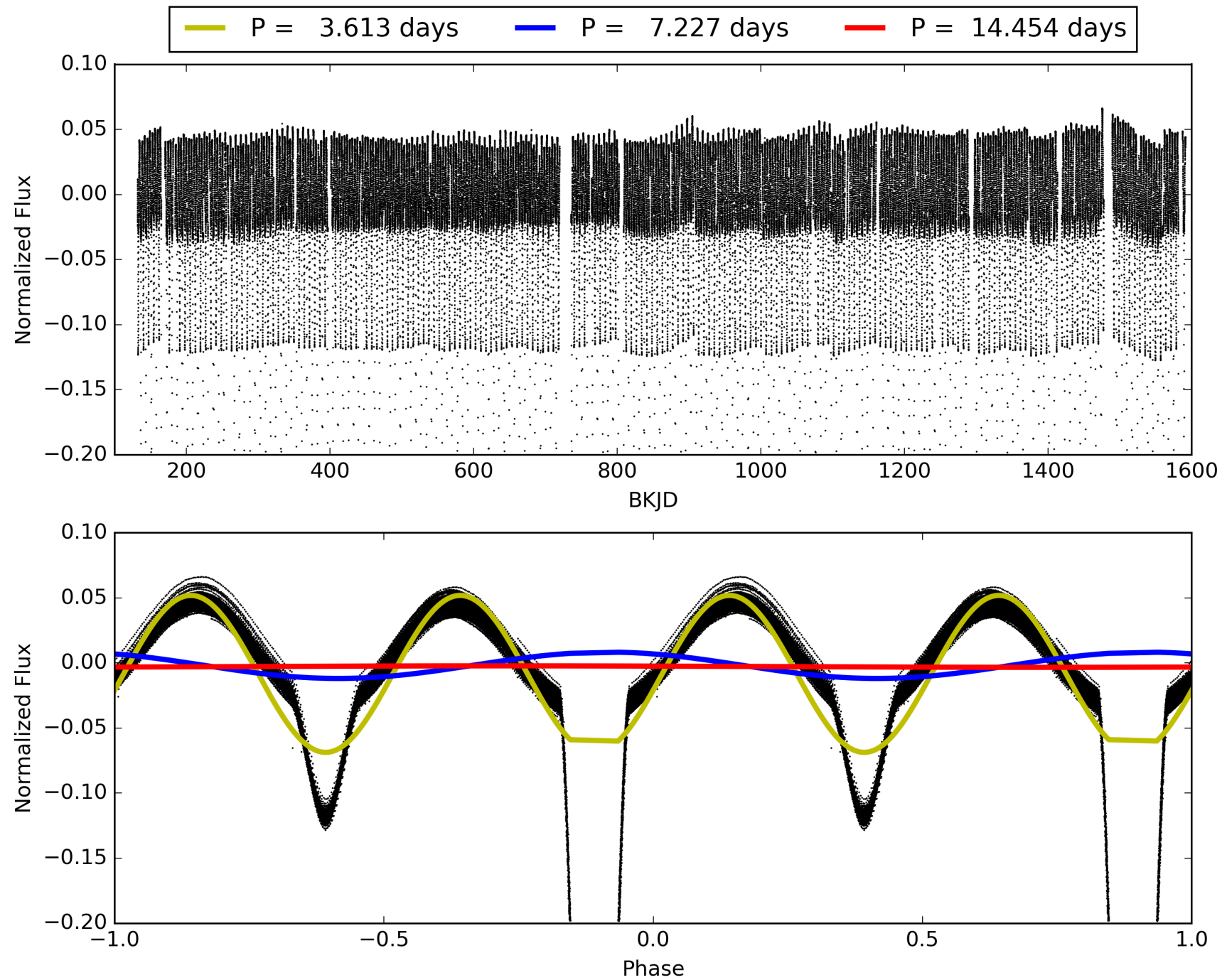
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:43:22 Z

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

TCE 007938468-02, PDC Light Curves

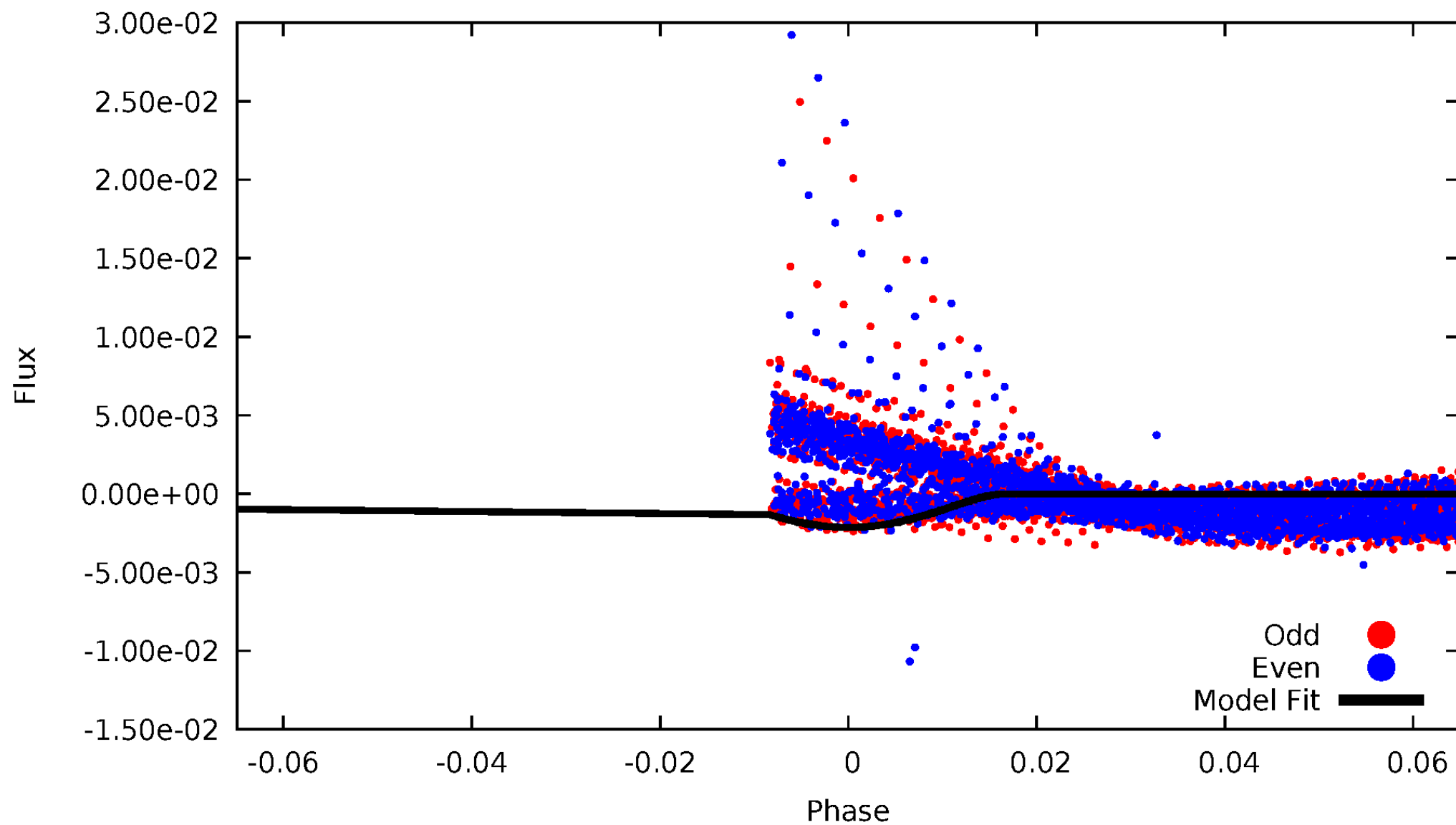


TCE 007938468-02



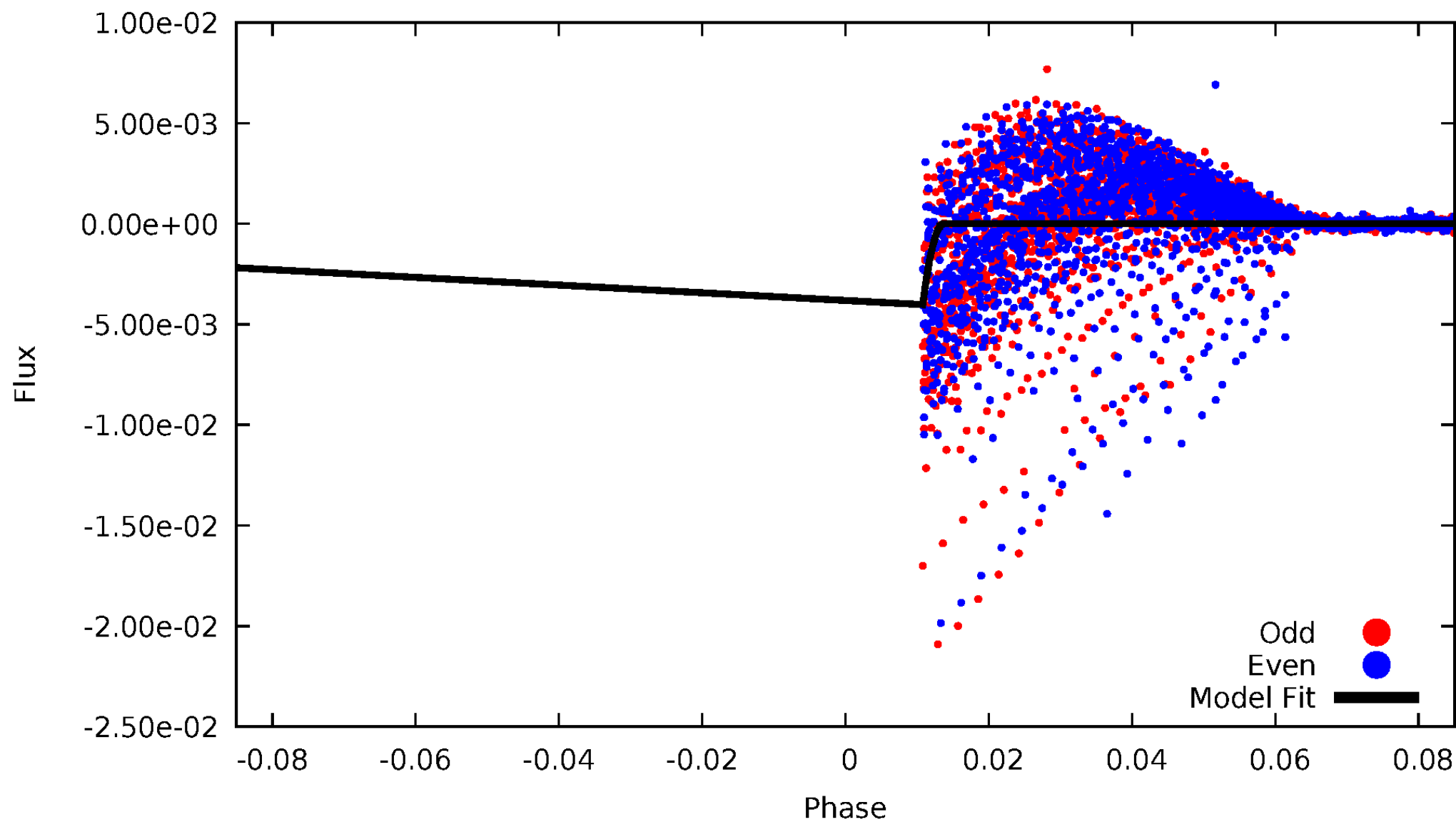
DV Odd/Even

TCE 007938468-02



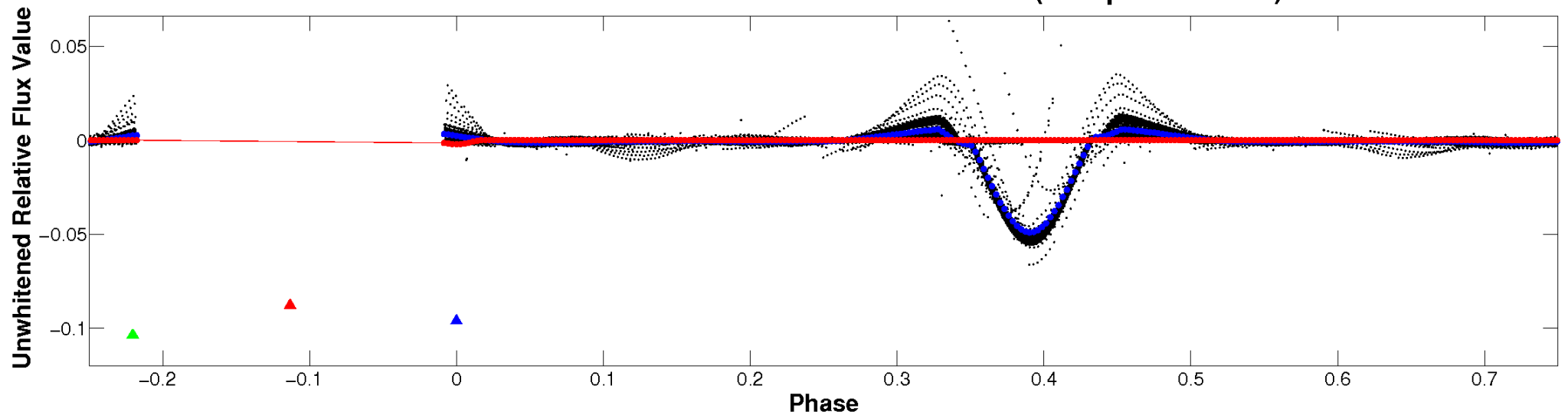
ALT Odd/Even

TCE 007938468-02

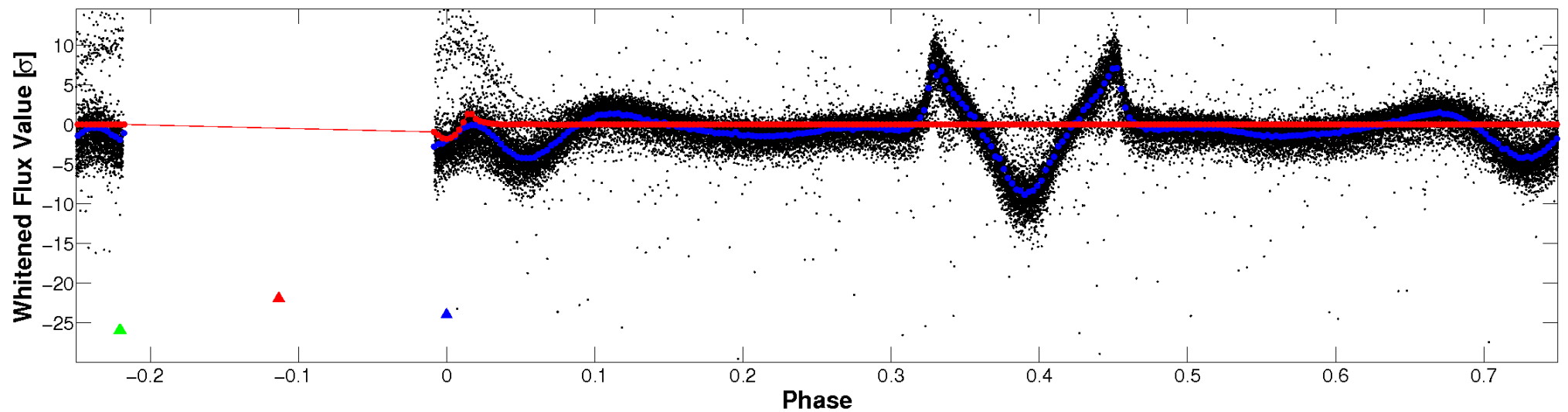


Non-Whitened Vs. Whitened Light Curve

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

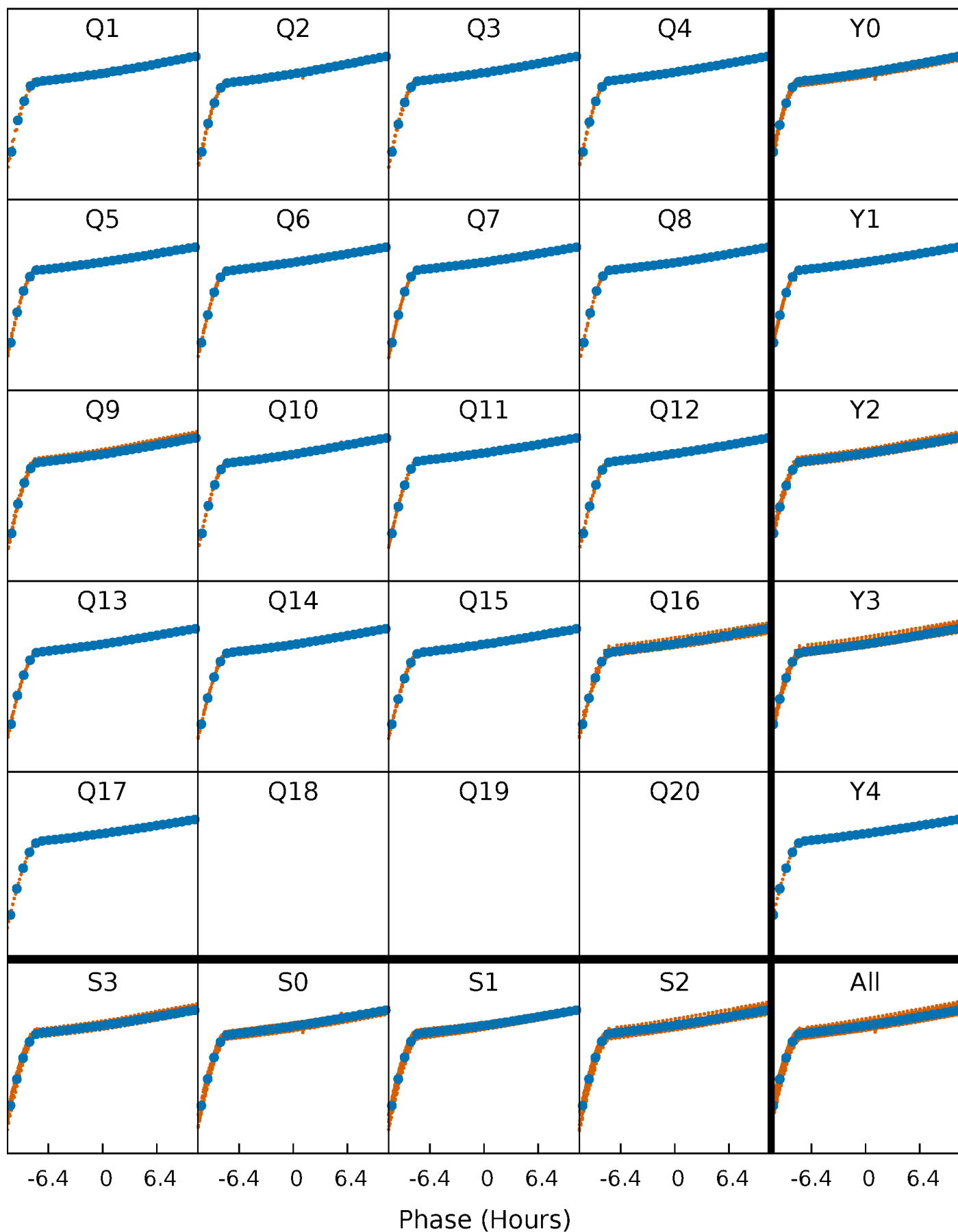


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



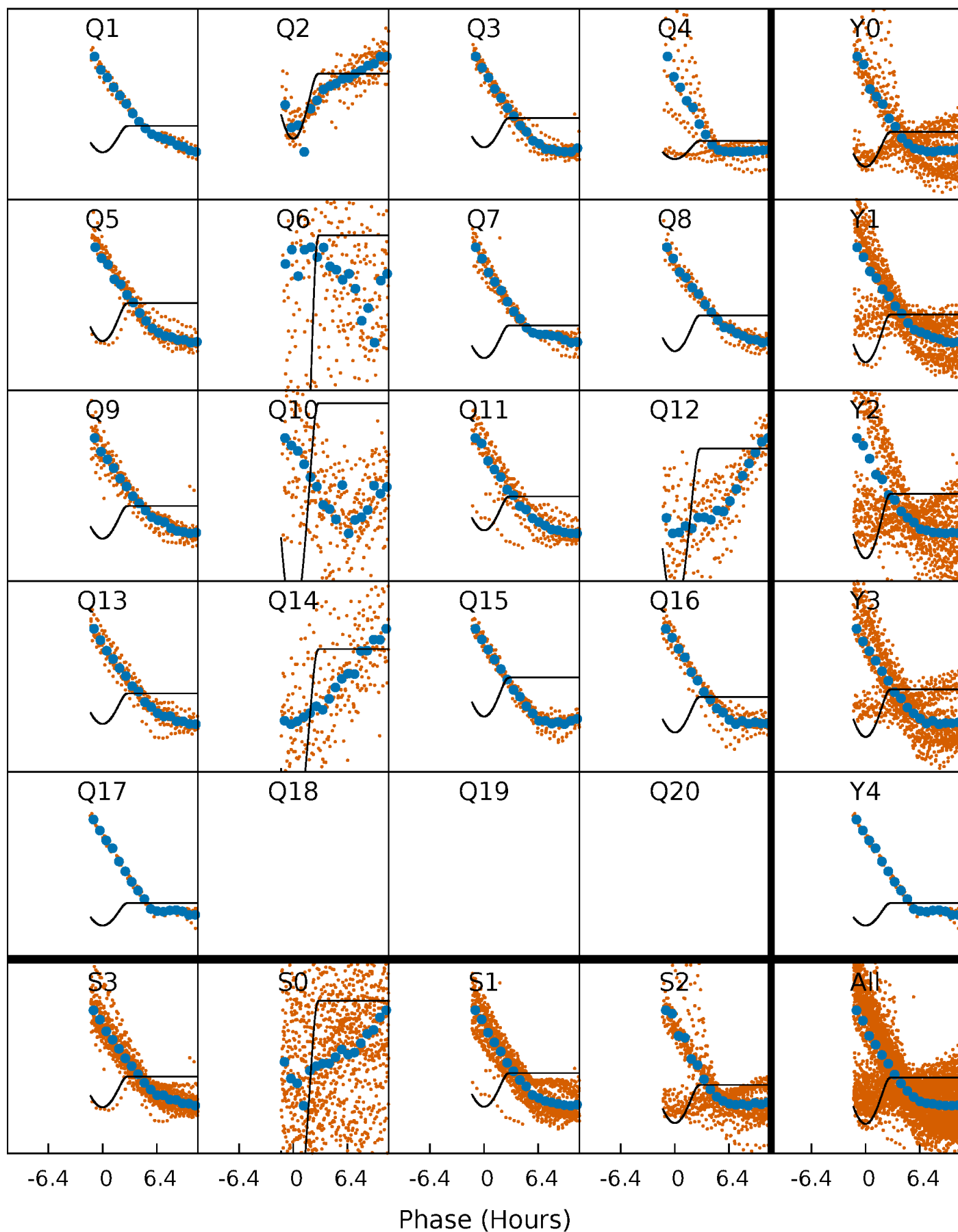
PDC Quarter-Phased Transit Curves

TCE 007938468-02 P= 7.226870 Days $T_0=136.962479$ (BKJD)



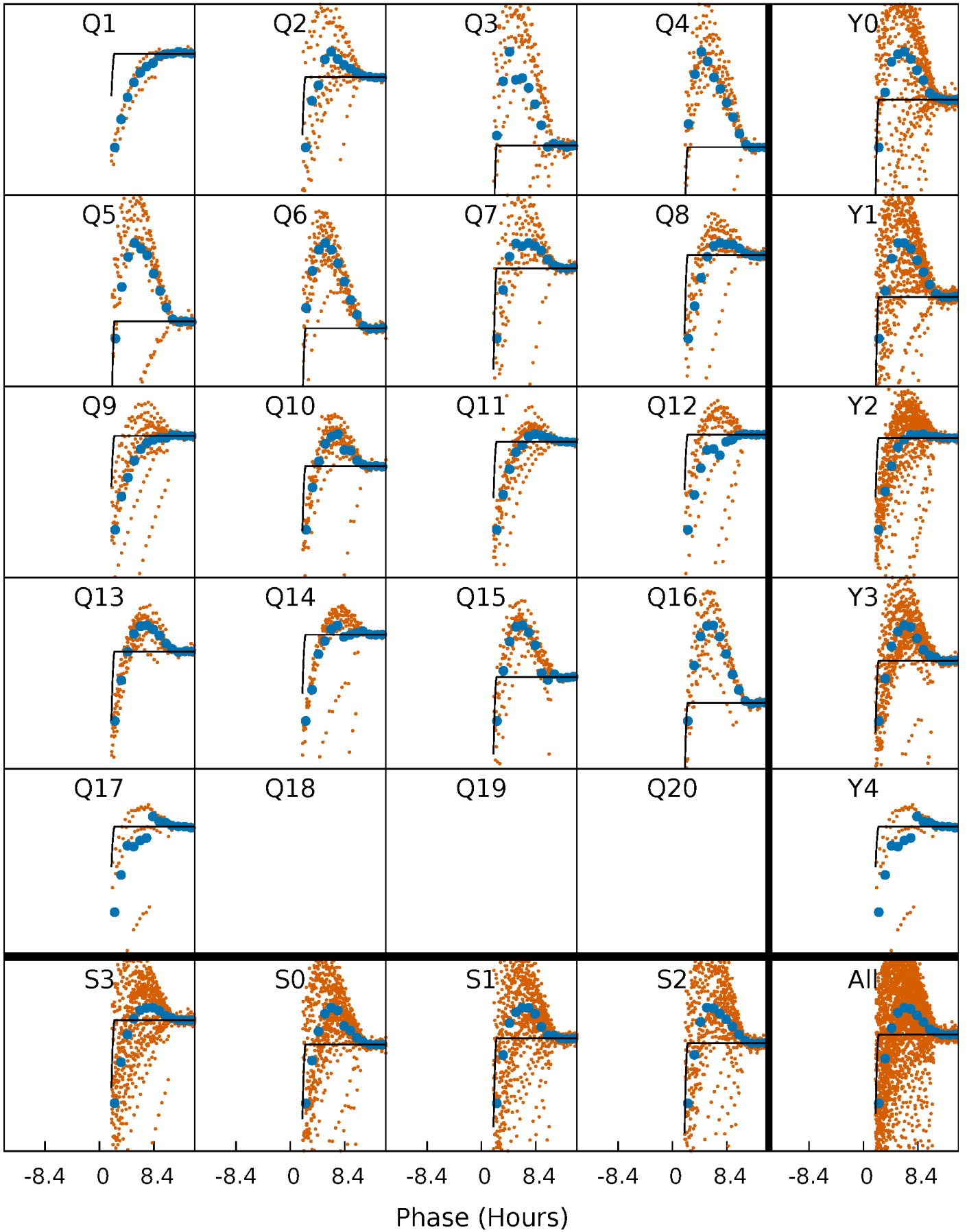
DV Quarter-Phased Transit Curves

TCE 007938468-02 P= 7.226870 Days $T_0=136.962479$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

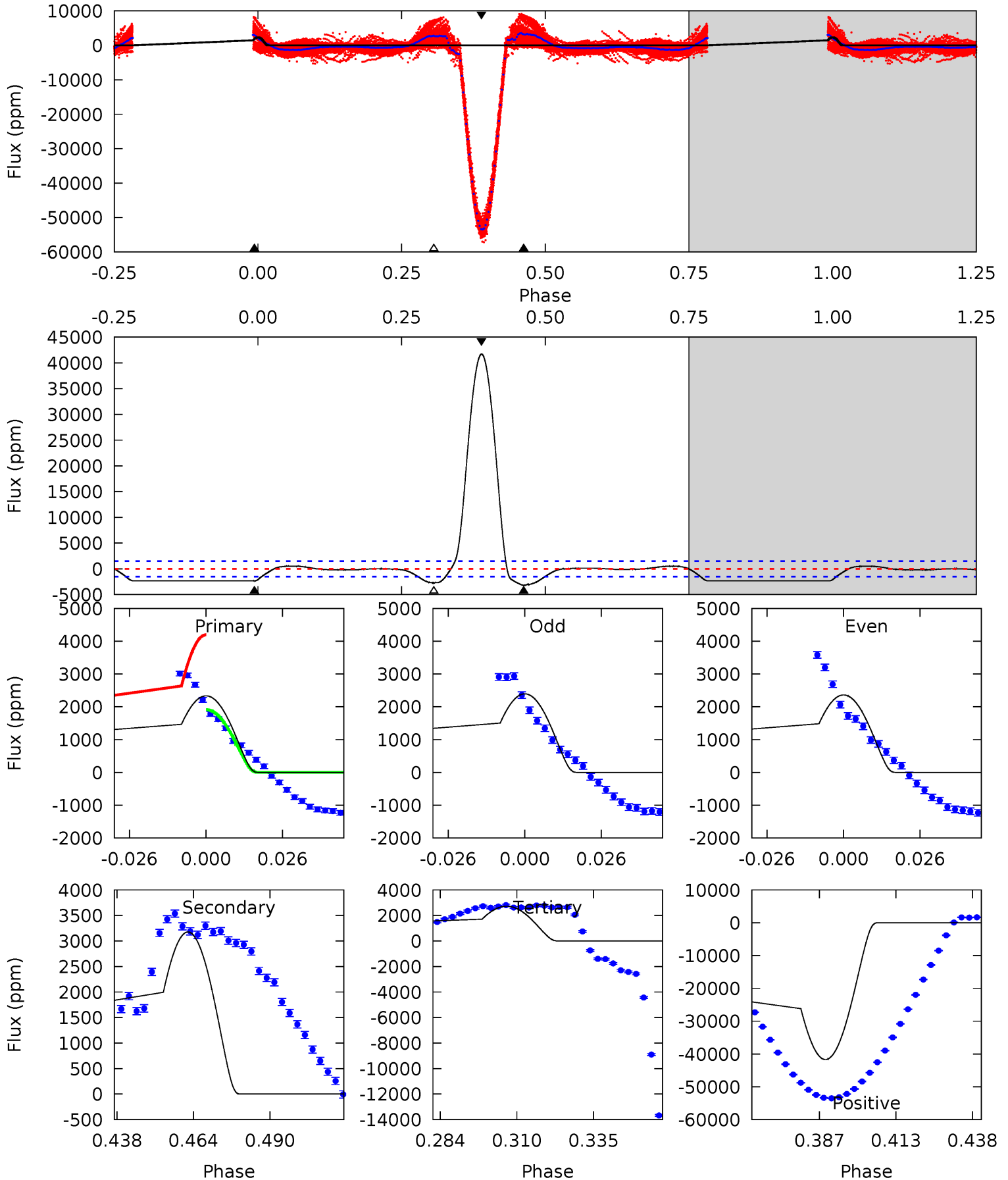
TCE 007938468-02 P= 7.226850 Days $T_0=136.828374$ (BKJD)



DV Model-Shift Uniqueness Test

007938468-02, P = 7.226870 Days, E = 129.735609 Days

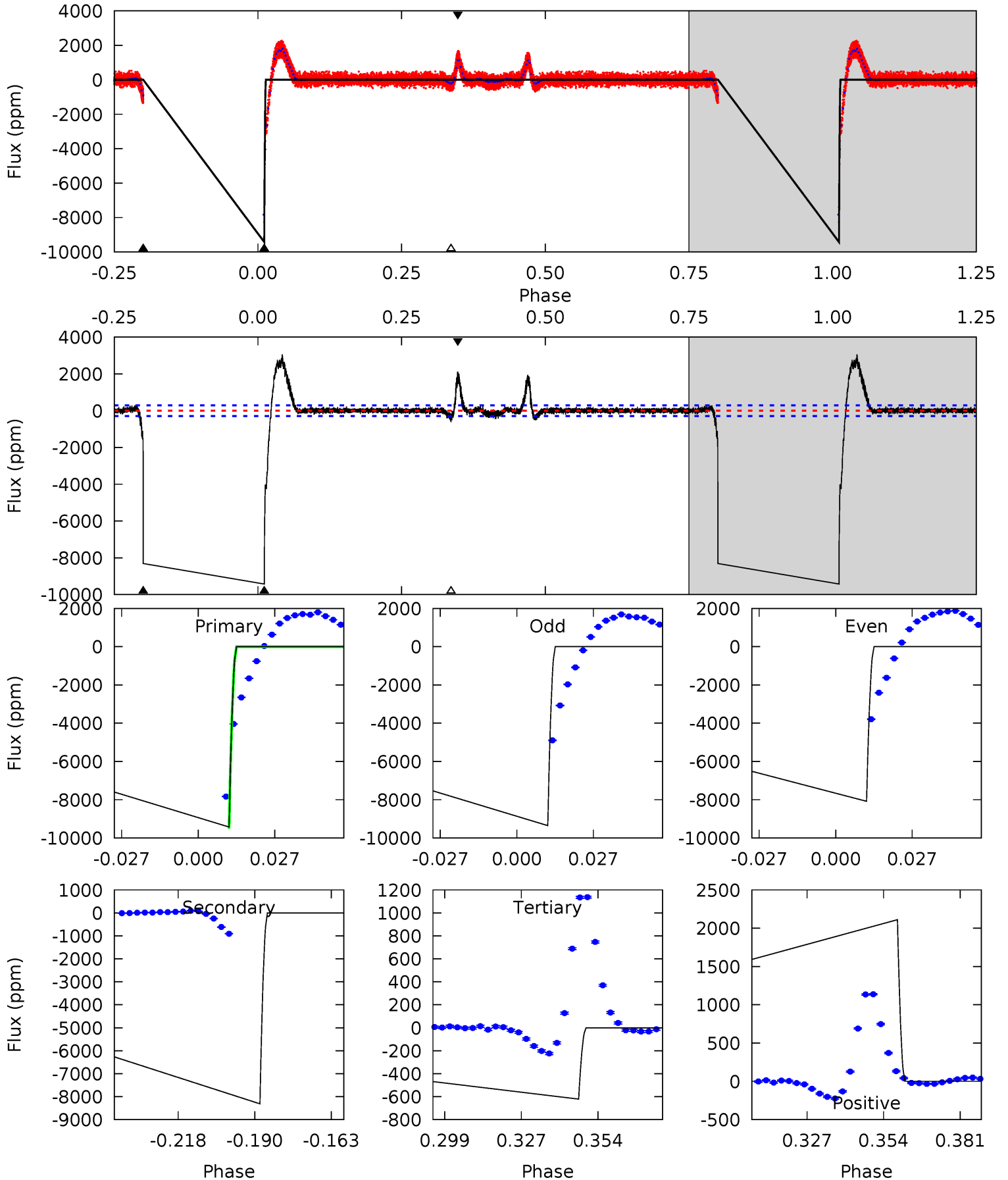
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.57	10.3	8.83	135.3	4.84	2.23	29.6	-1.25	-127.8	1.48	-125.0	0.05	0.82	0.93	4.73



Alt Model-Shift Uniqueness Test

007938468-02, P = 7.226850 Days, E = 129.601524 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
157.4	138.8	10.4	35.3	4.83	2.21	4.81	147.0	122.1	128.4	103.5	11.1	1.00	0.24	0



Stellar Parameters For KIC 007938468

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6270^{+188}_{-206}	$4.199^{+0.209}_{-0.171}$	$-0.220^{+0.300}_{-0.300}$	$1.360^{+0.395}_{-0.323}$	$1.064^{+0.185}_{-0.123}$	$0.596^{+0.628}_{-0.311}$
	+3%/-3%	+5%/-4%	+136%/-136%	+29%/-24%	+17%/-12%	+105%/-52%
Source	PHO1	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 007938468-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3176 ± 308	$12.59^{+9.17}_{-7.22}$	1645^{+123}_{-128}	5169^{+2806}_{-999}	63^{+283}_{-41}
Alt.	-8311 ± 60	$14.36^{+9.30}_{-8.02}$	1643^{+132}_{-124}	5980^{+3834}_{-1090}	124^{+564}_{-78}

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

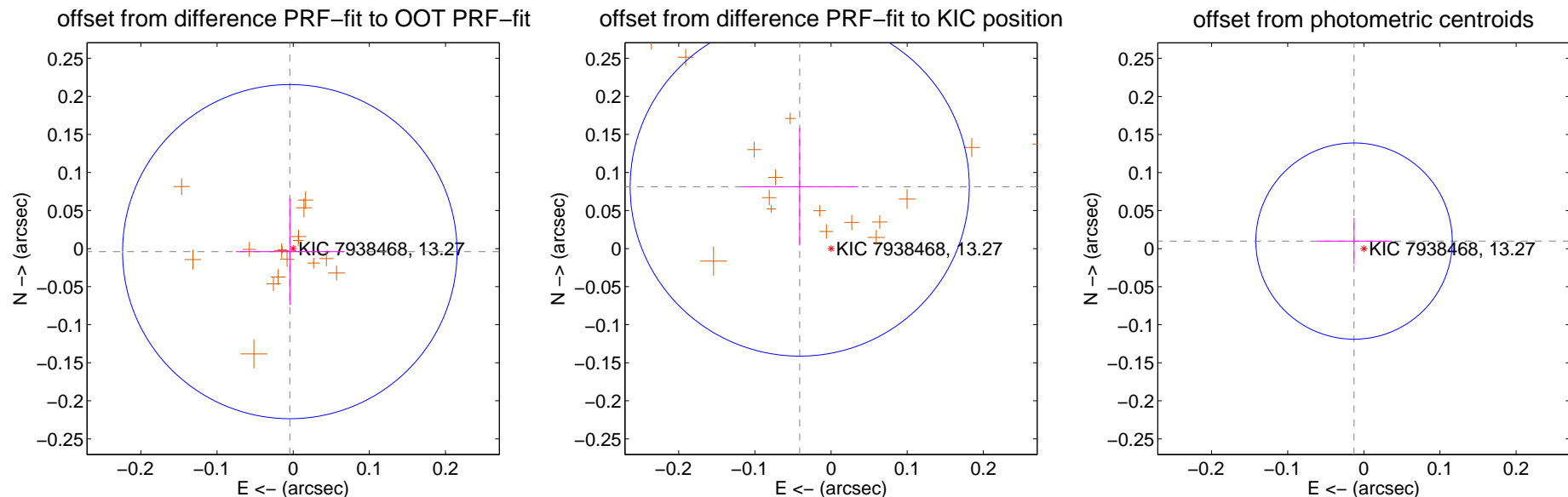
DV Centroid Data

Supplemental centroid analysis for 007938468-02. Kepler magnitude: 13.27. Transit SNR 56.02

There are 0 quarters with good PRF difference image offsets

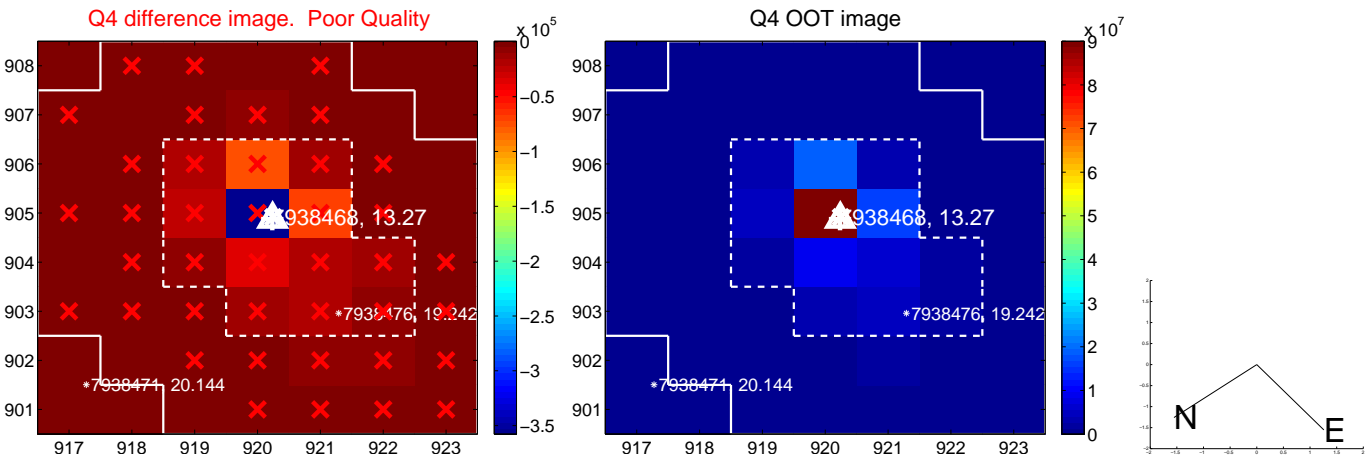
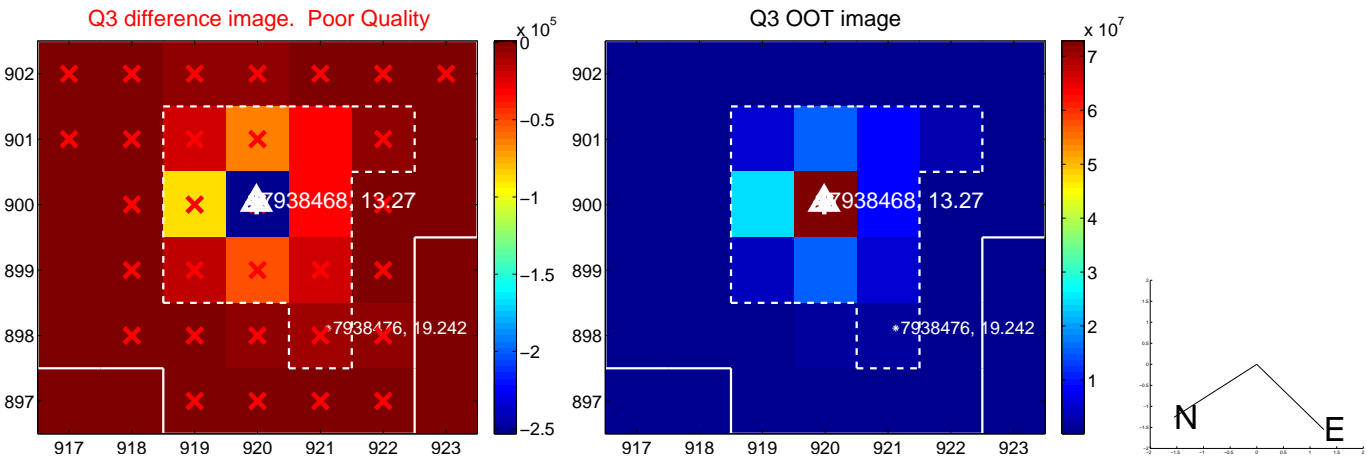
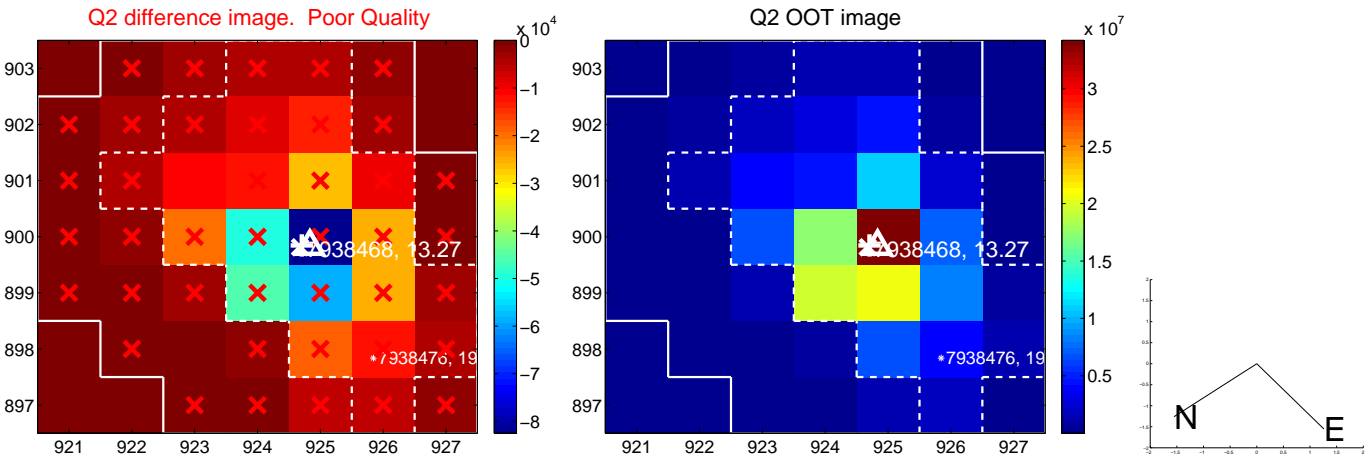
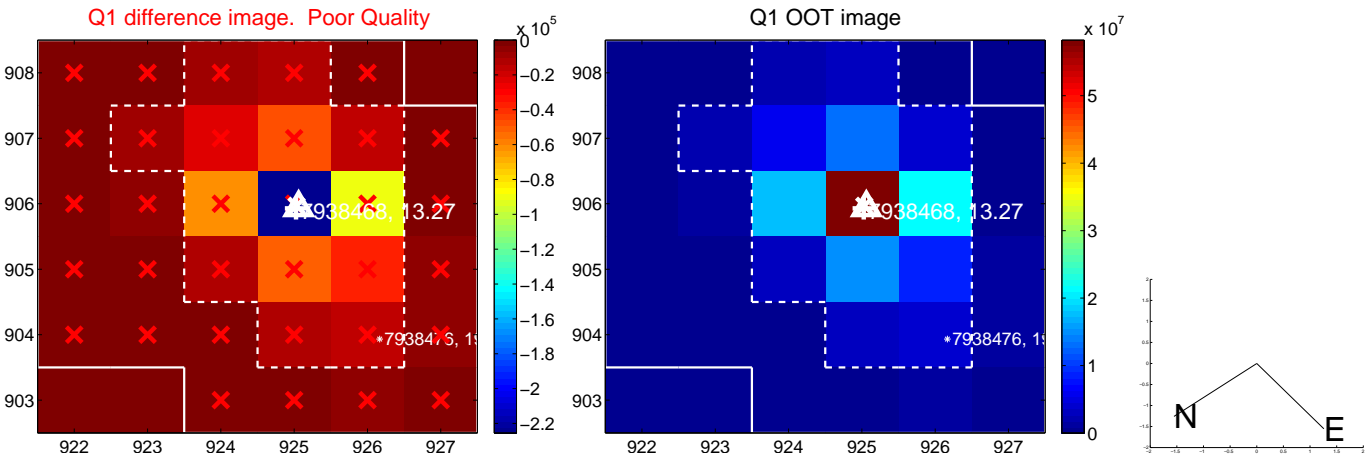
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.006 ± 0.073	0.08	0.004 ± 0.071	-0.004 ± 0.070
PRF-fit source offset from KIC position	0.091 ± 0.074	1.23	0.041 ± 0.076	0.081 ± 0.077
photometric centroid source offset	0.02 ± 0.04	0.38	0.01 ± 0.05	0.01 ± 0.03

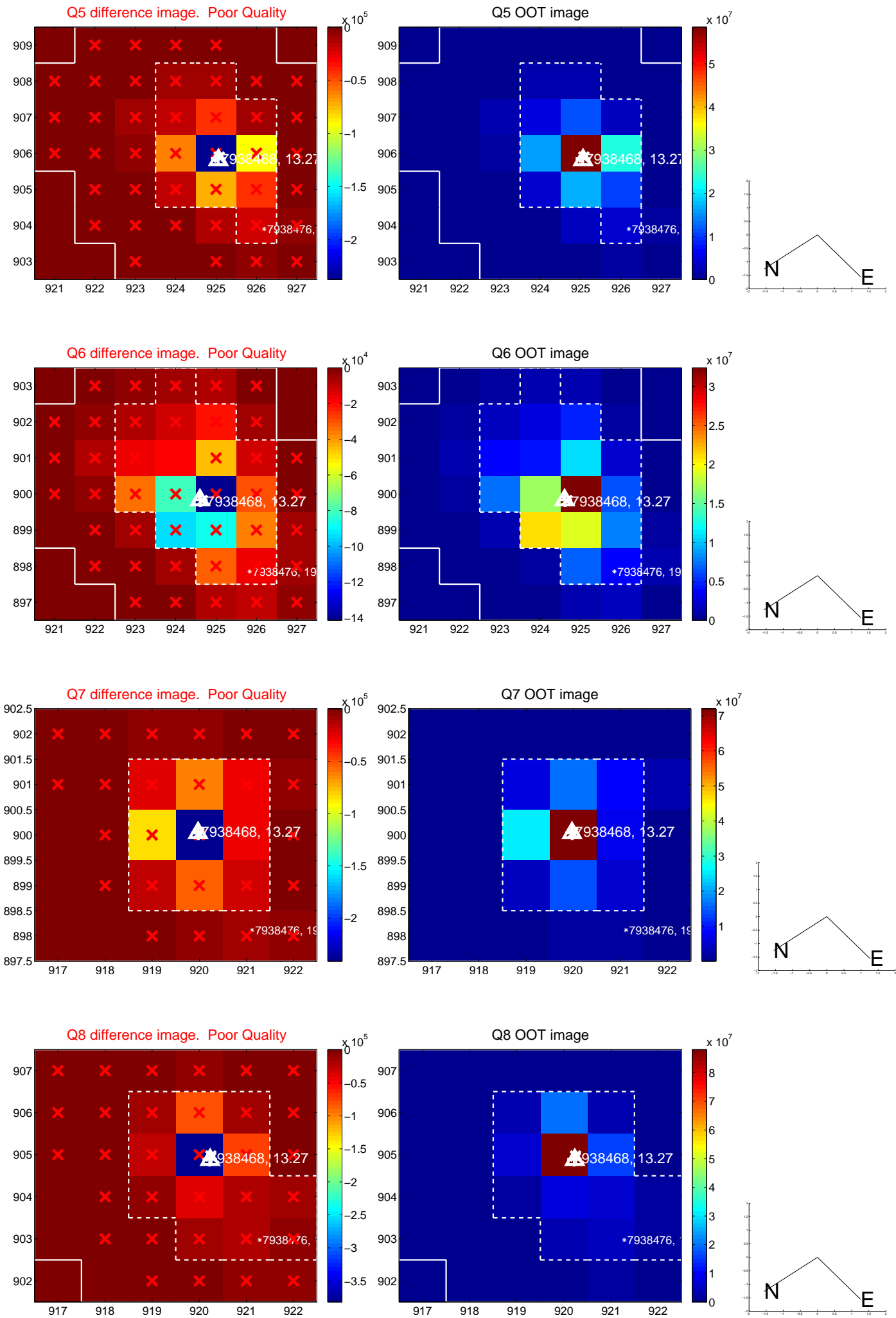


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

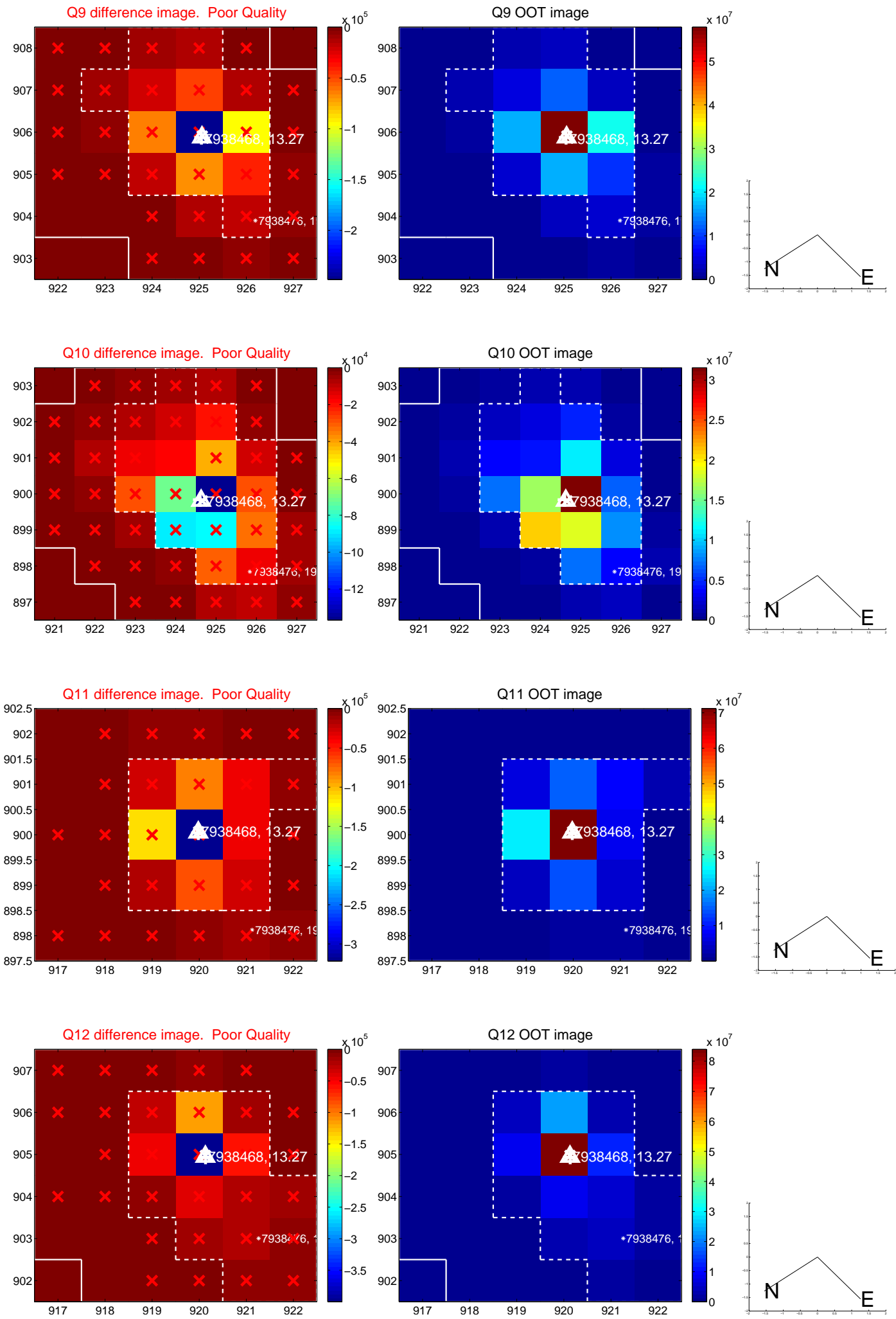
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



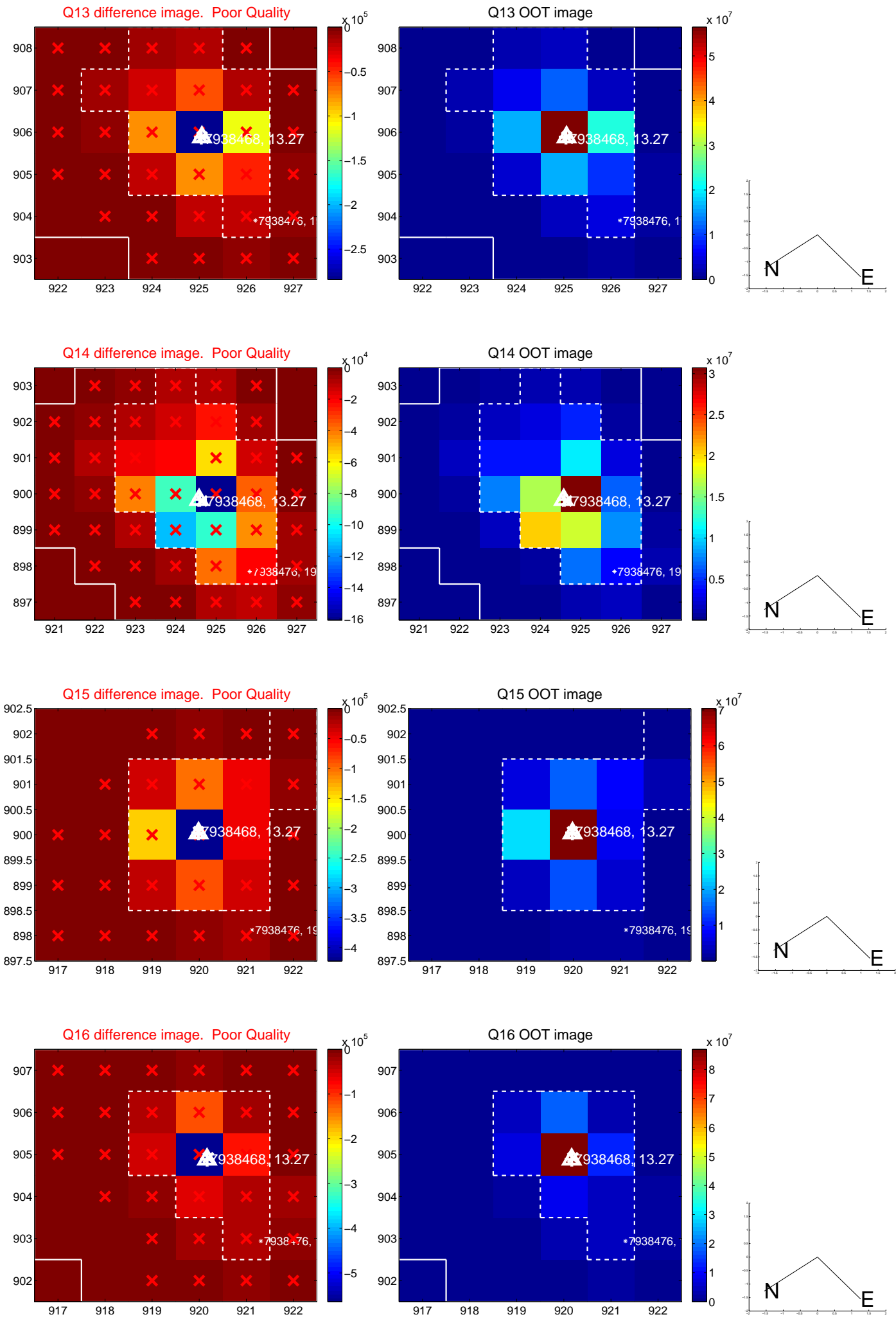
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



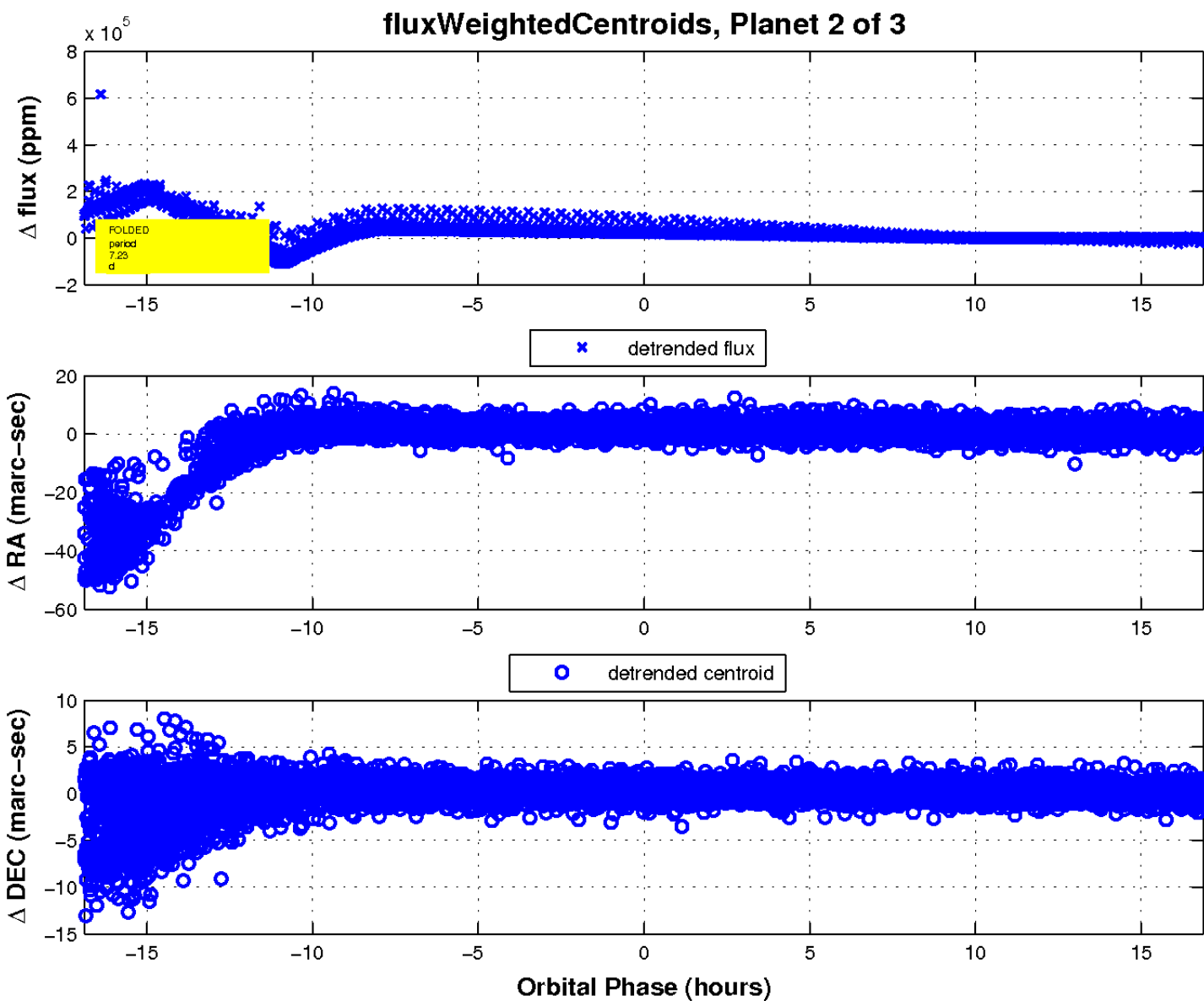
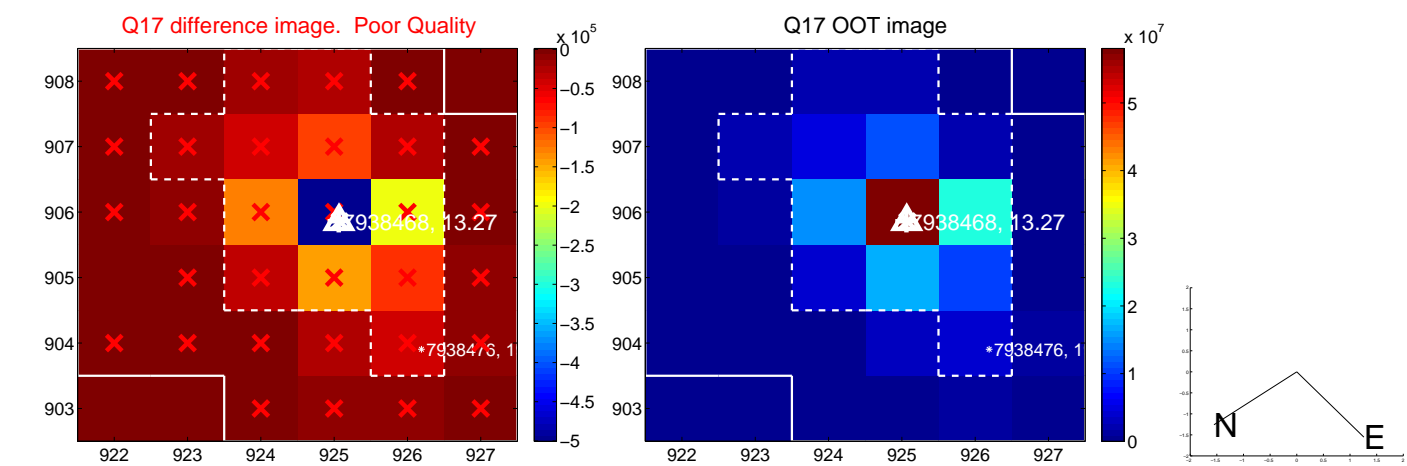
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

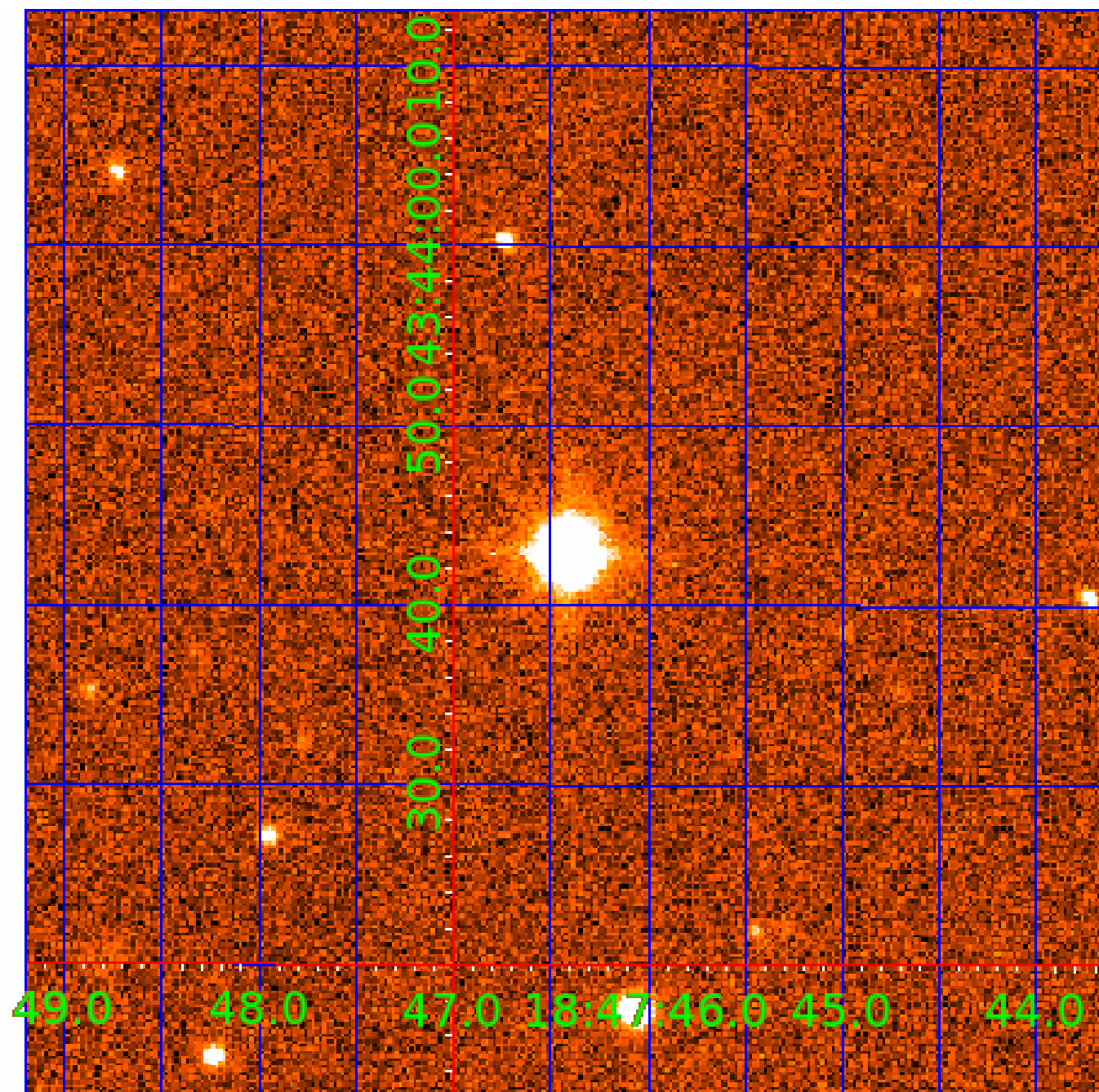


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007938468

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})
007938468-01	OBS	6933.01	7.226850	136.146006	645208.8	12.000	952.0	-1.0	1.36	6270	9.26	458.20
007938468-02	OBS	No	7.226870	136.962479	2145.2	5.629	574.4	56.0	1.36	6270	11.56	458.20
007938468-03	OBS	No	7.226839	135.372937	1827.4	15.000	452.3	-1.0	1.36	6270	5.83	458.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007938468-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—MOD_SEC_ALT—MOD_ODDEVEN_ALT—CENT_NOFITS
007938468-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—RESIDUAL_TCE—CENT_FEW_DIFFS
007938468-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_ALT—RESIDUAL_TCE—CENT_NOFITS—HALO_GHOST

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.

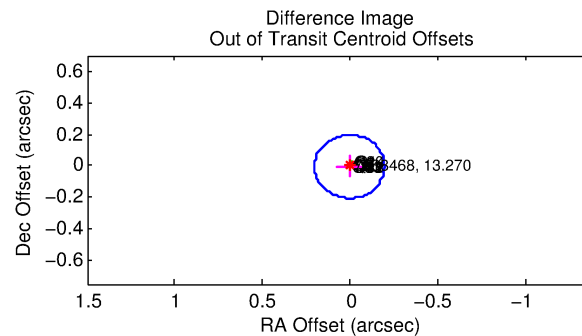
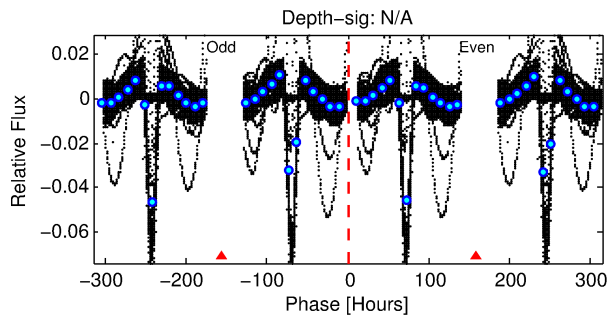
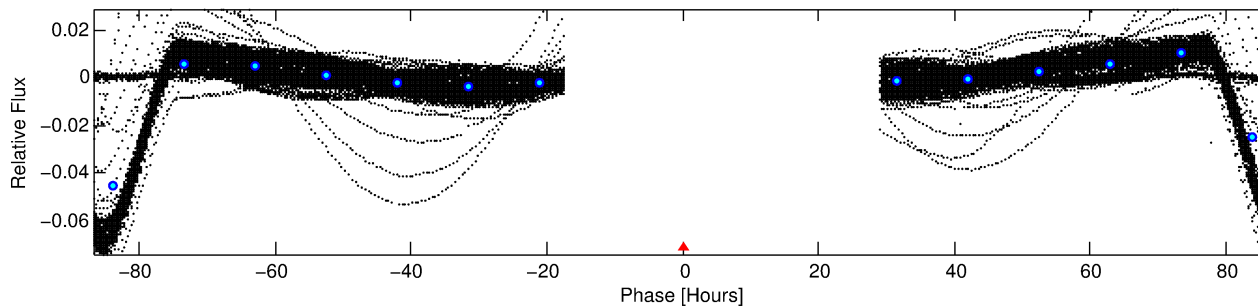
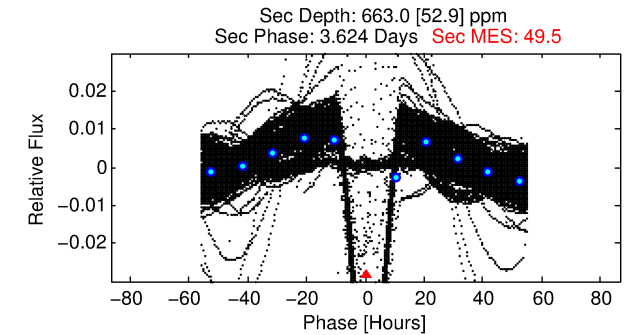
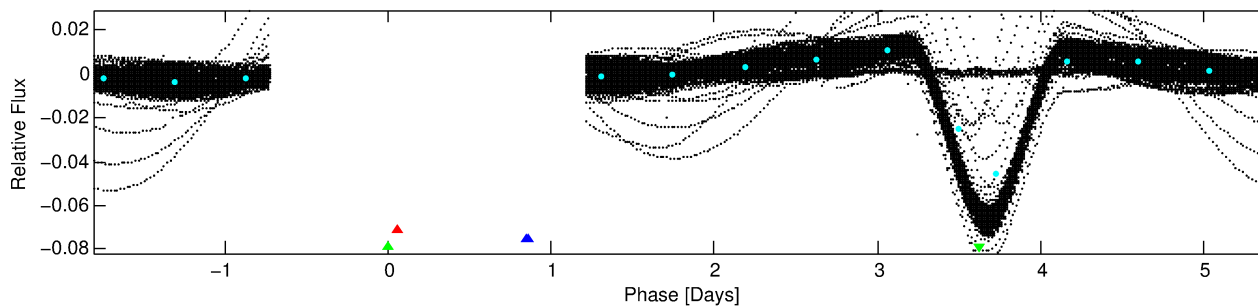
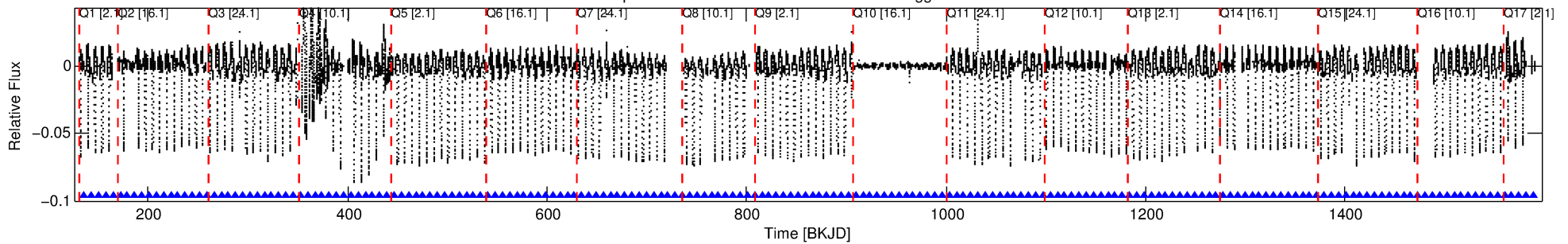
Ephemeris Match Information For 007938468-03

No Significant Match Found

DV One-Page Summary

KIC: 7938468 Candidate: 3 of 3 Period: 7.227 d
KOI: K06933 Corr: No Ephemeris Match

Kp: 13.27 R*: 1.36 Rs Teff: 6270.0 K Logg: 4.20 Fe/H: -0.220



TPS TCE Results:

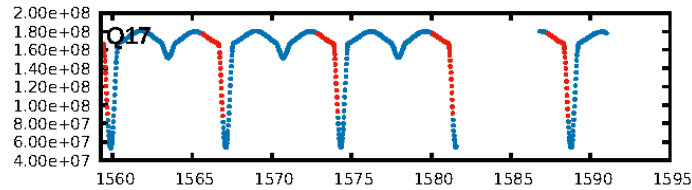
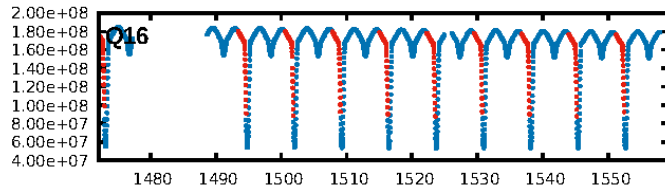
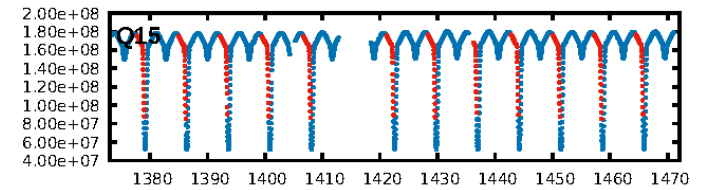
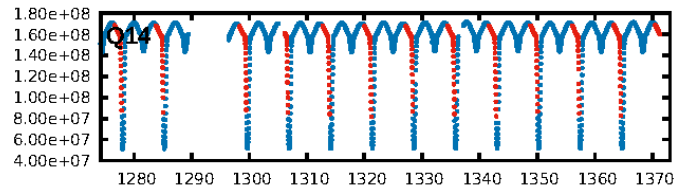
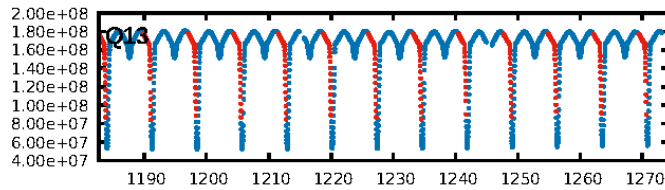
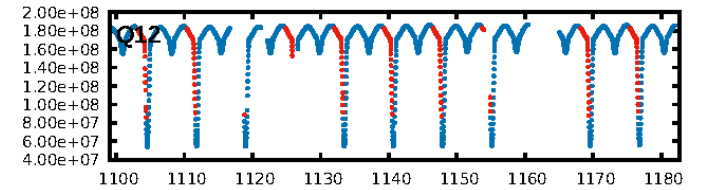
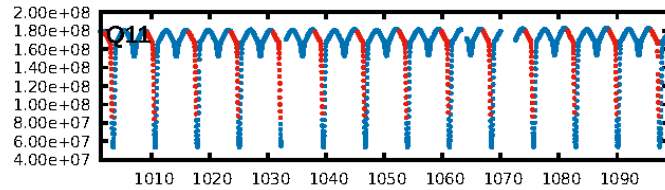
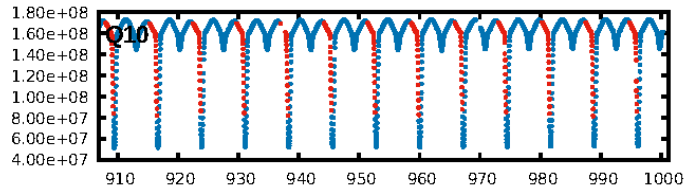
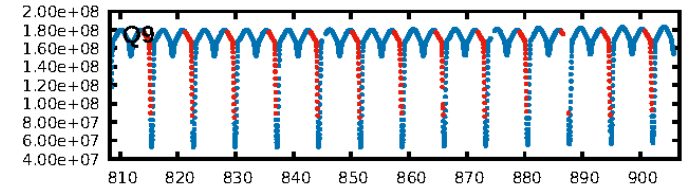
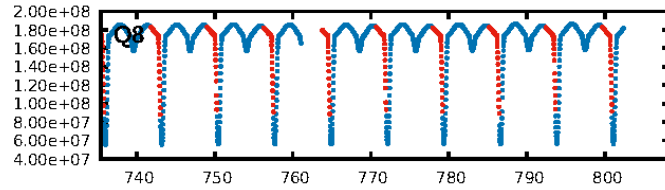
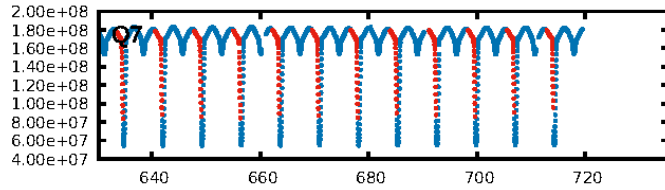
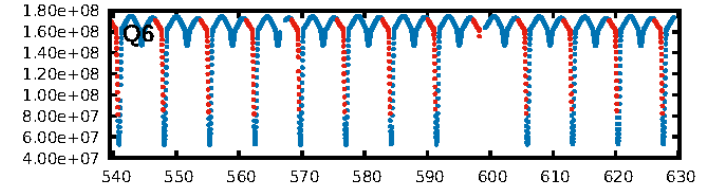
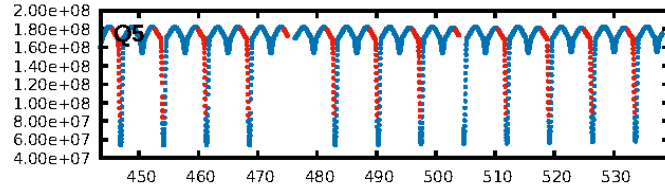
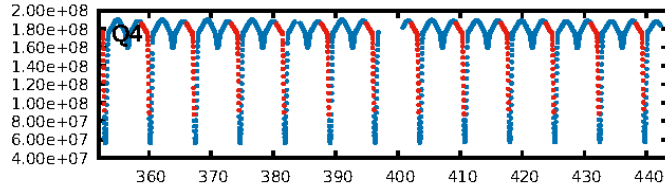
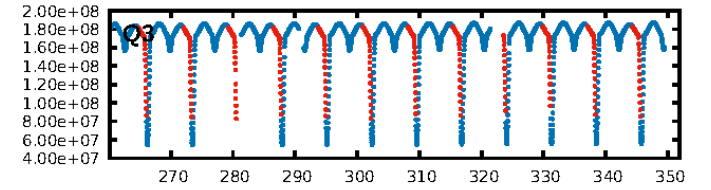
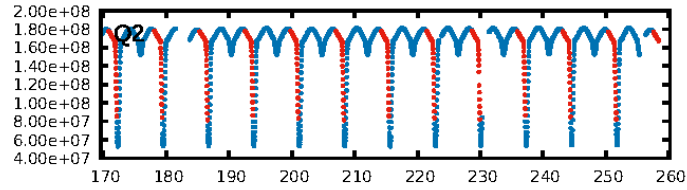
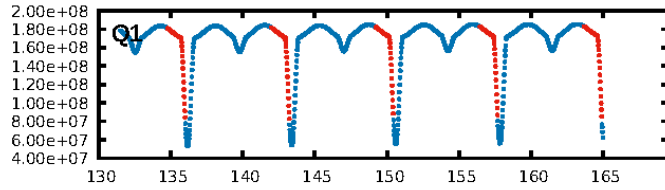
Period = 7.22684 d
Epoch = 135.3729 BKJD

DV fit results are unavailable

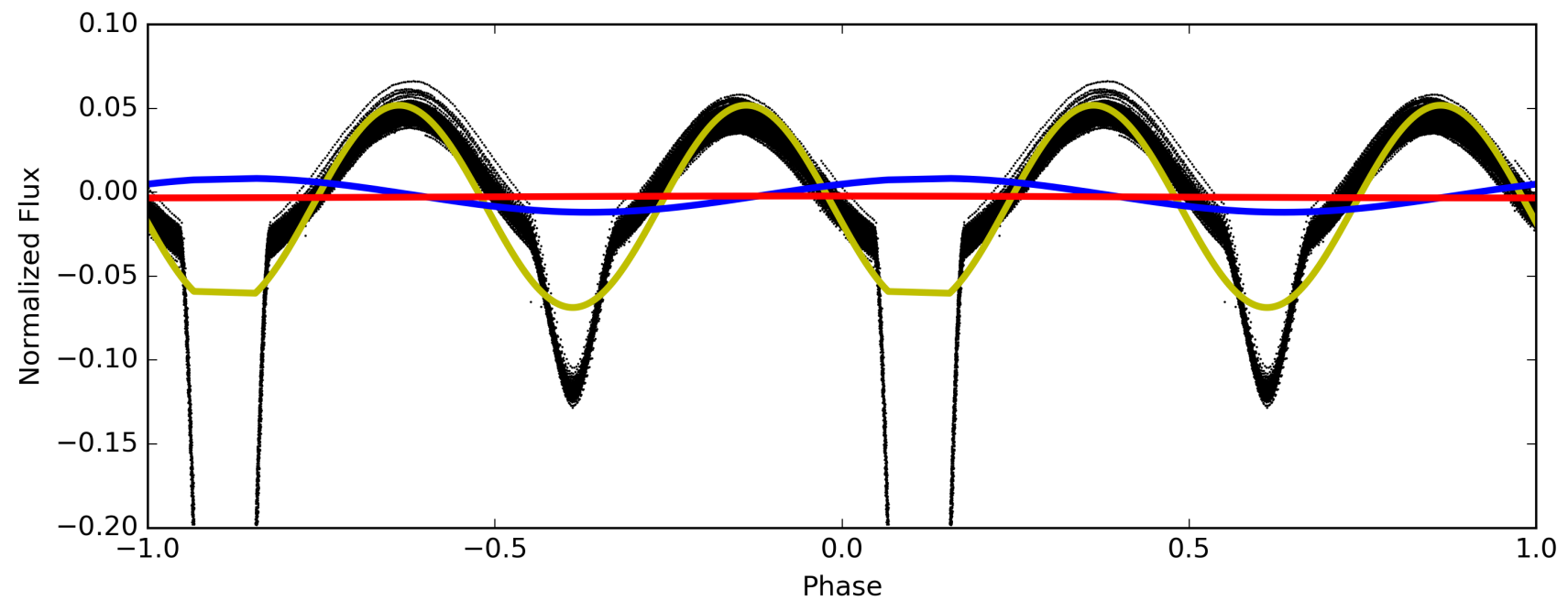
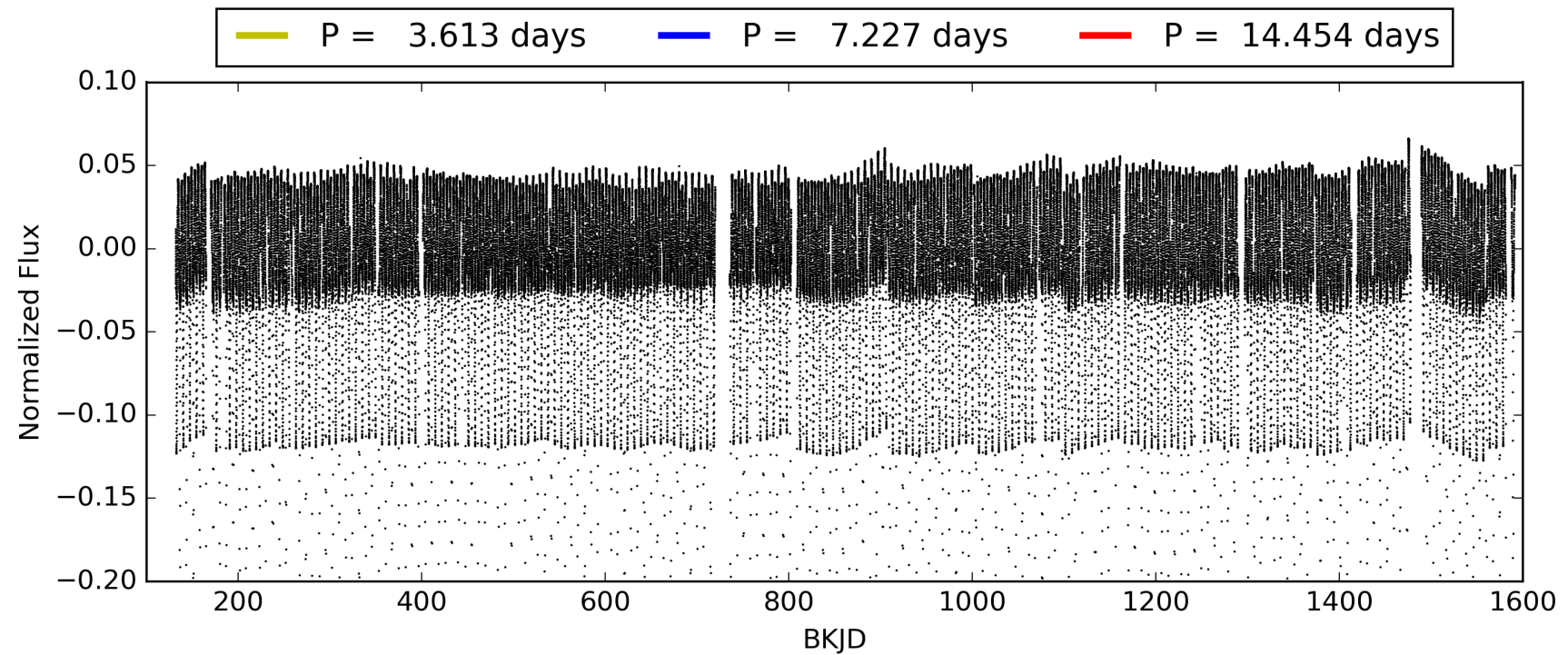
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [174/174]
GhostDiagnostic-chr: -0.2478
Centroid-sig: N/A
Centroid-so: 0.104 arcsec [75.79σ]
OotOffset-rm: 0.007 arcsec [0.10σ]
KicOffset-rm: 0.089 arcsec [1.27σ]
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]

TCE 007938468-03, PDC Light Curves

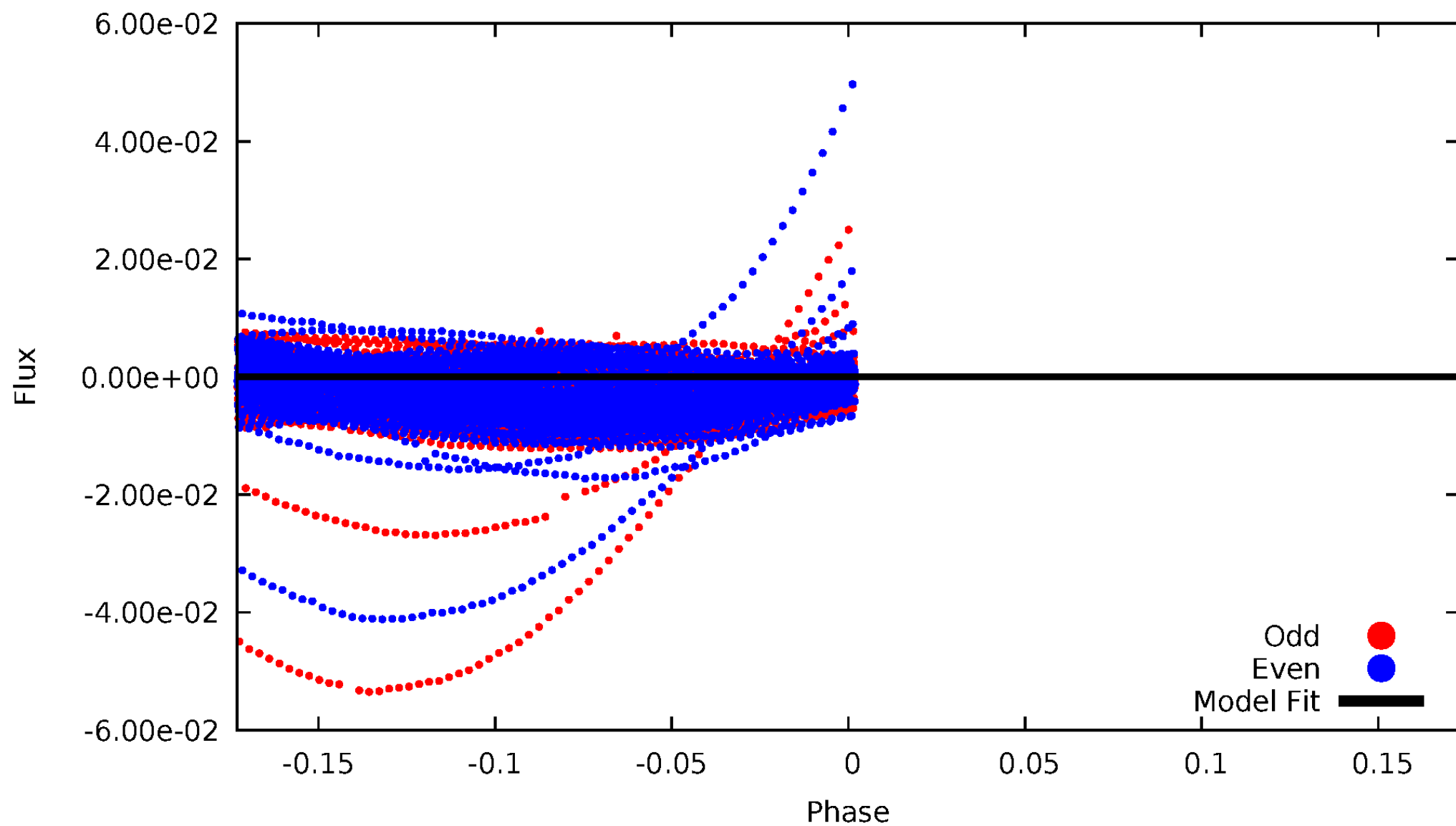


TCE 007938468-03



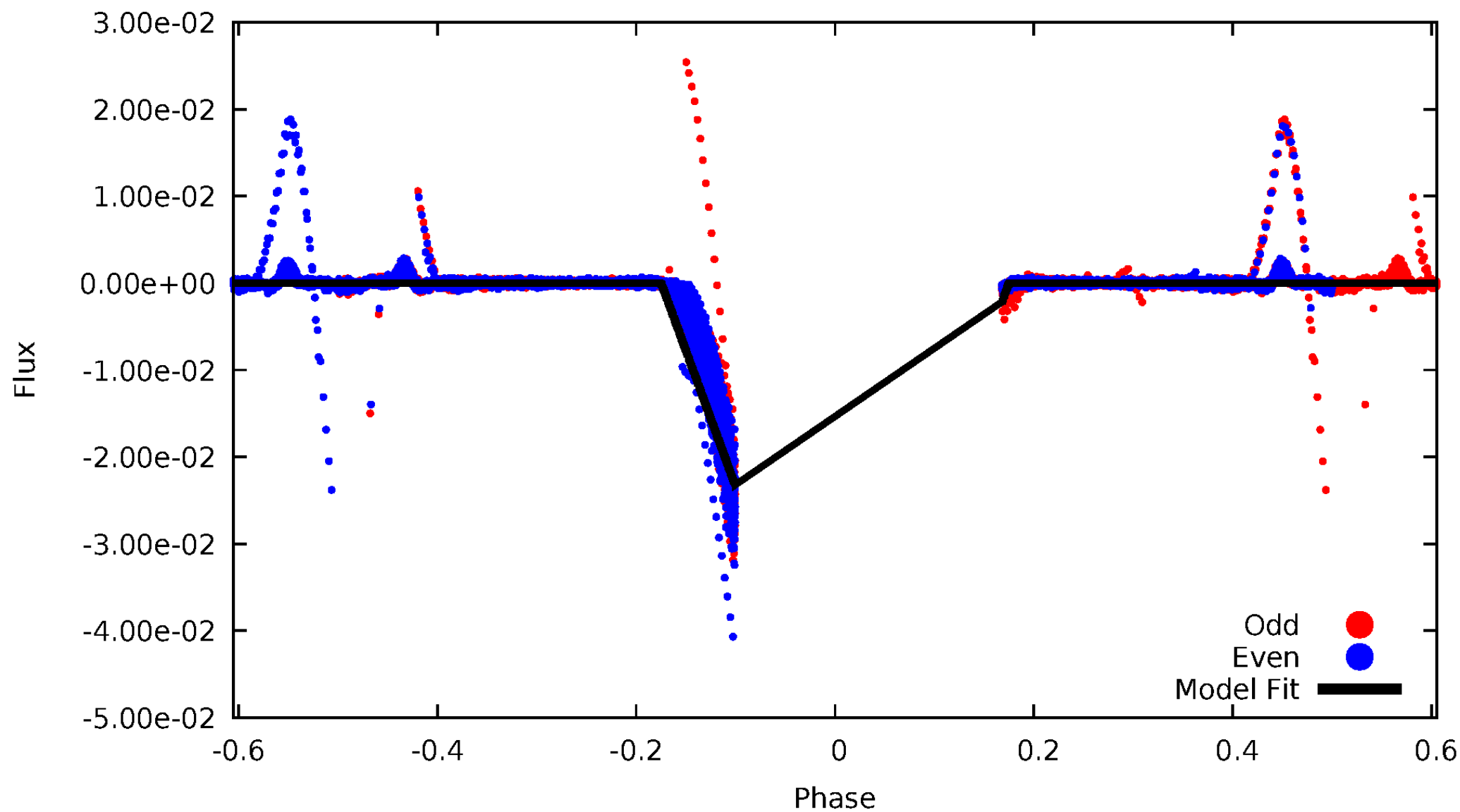
DV Odd/Even

TCE 007938468-03



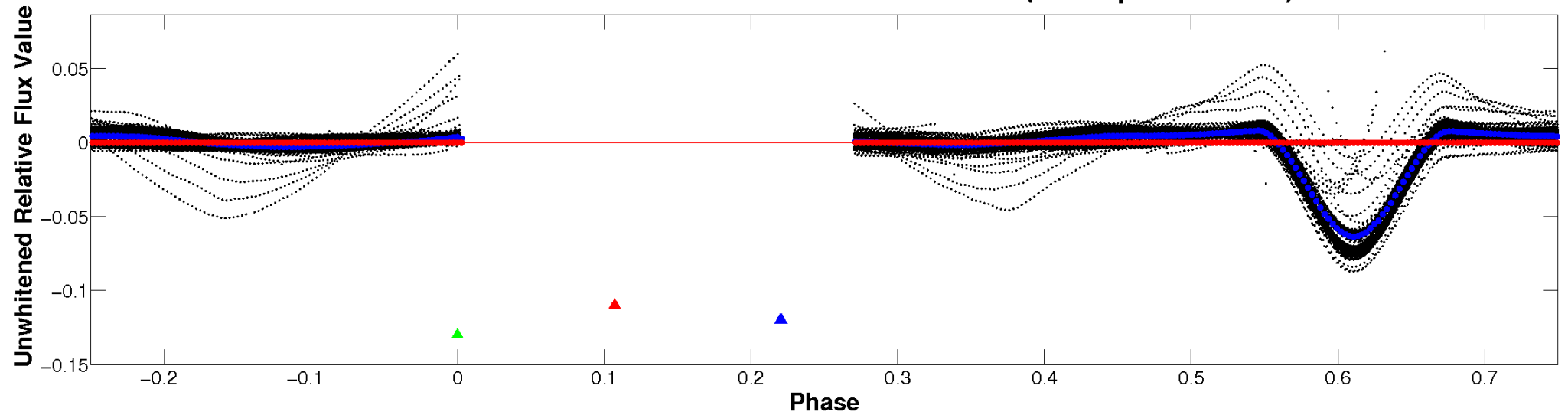
ALT Odd/Even

TCE 007938468-03

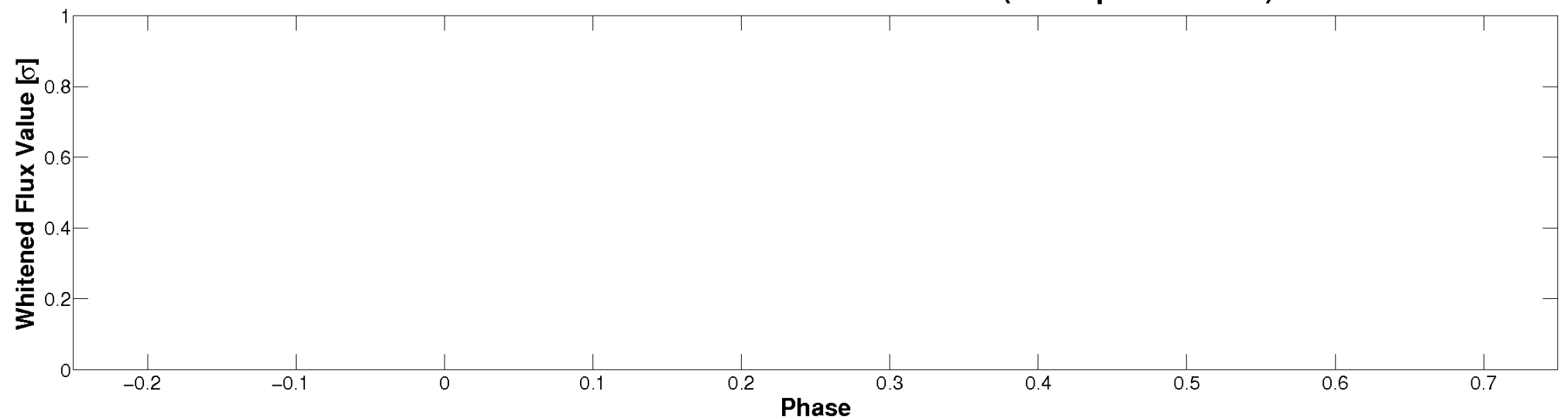


Non-Whitened Vs. Whitened Light Curve

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

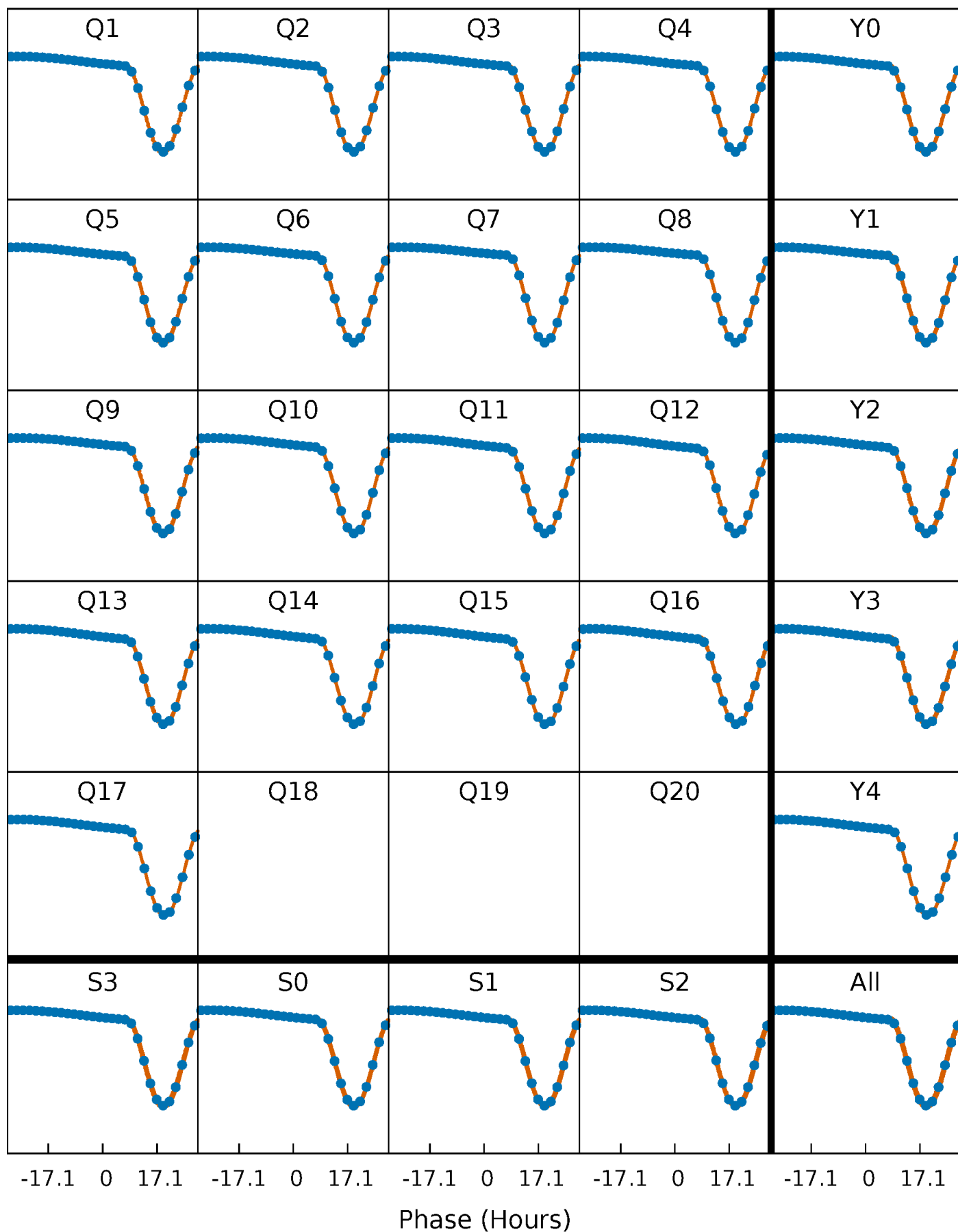


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



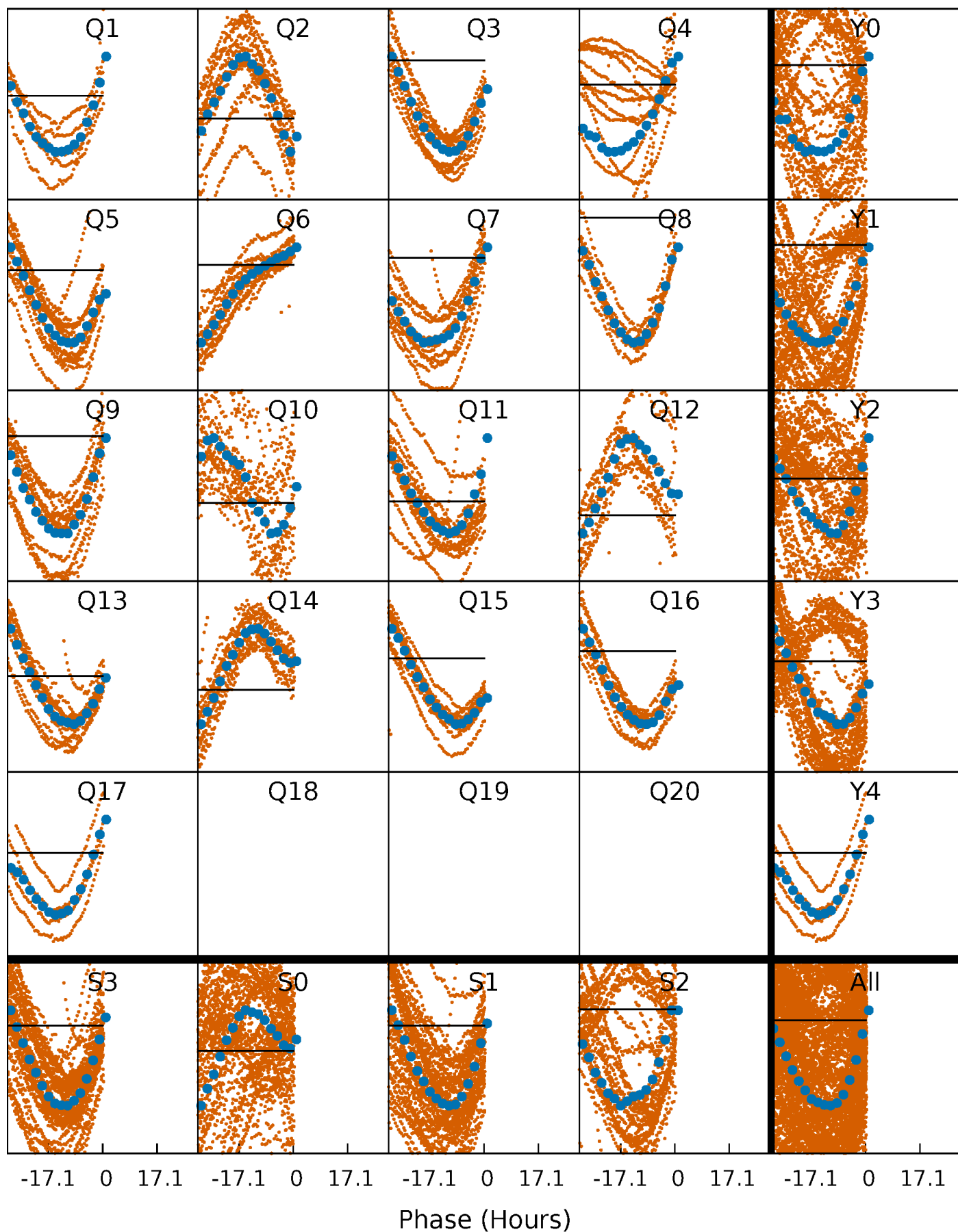
PDC Quarter-Phased Transit Curves

TCE 007938468-03 P= 7.226839 Days $T_0=135.372937$ (BKJD)



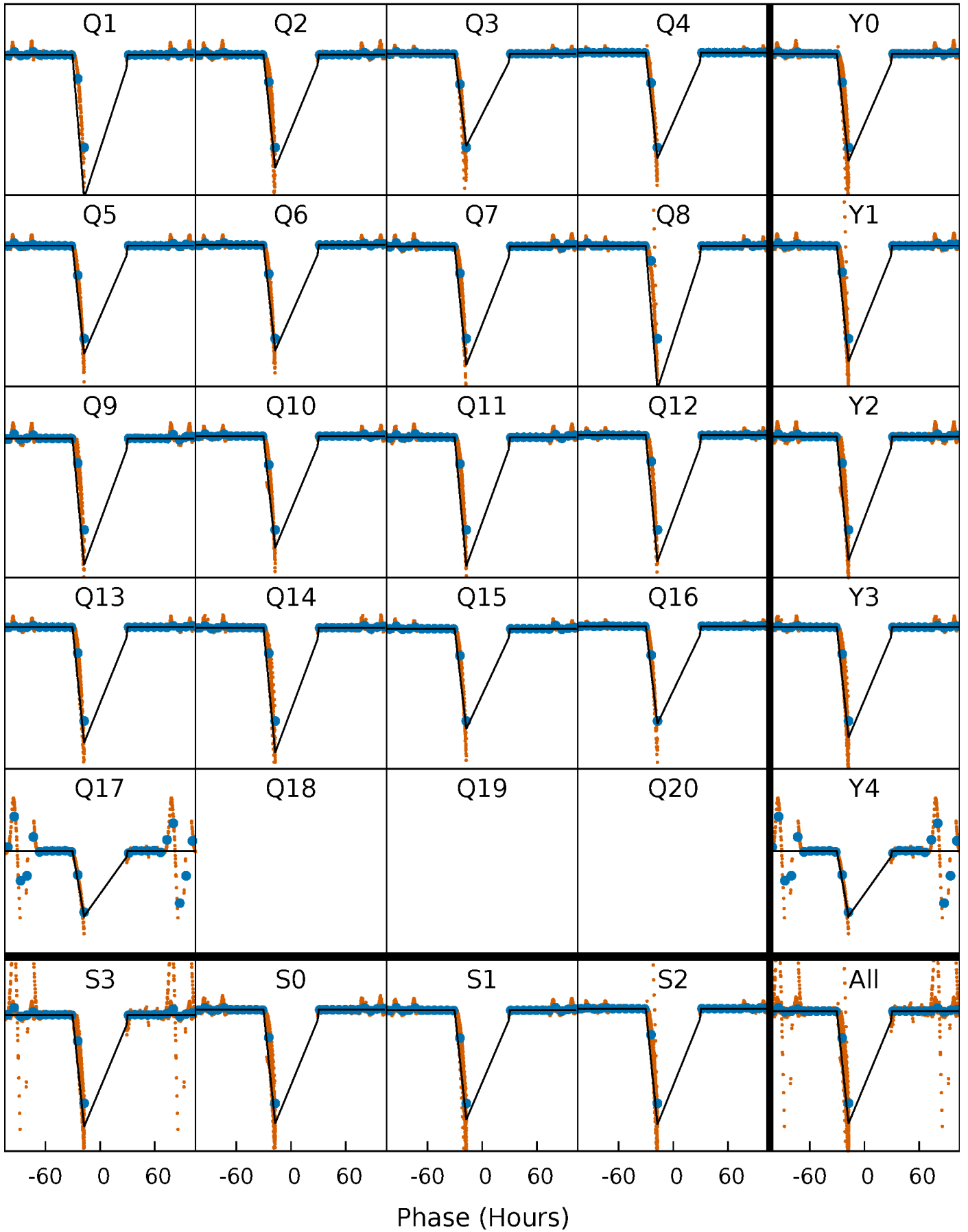
DV Quarter-Phased Transit Curves

TCE 007938468-03 $P = 7.226839$ Days $T_0 = 135.372937$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

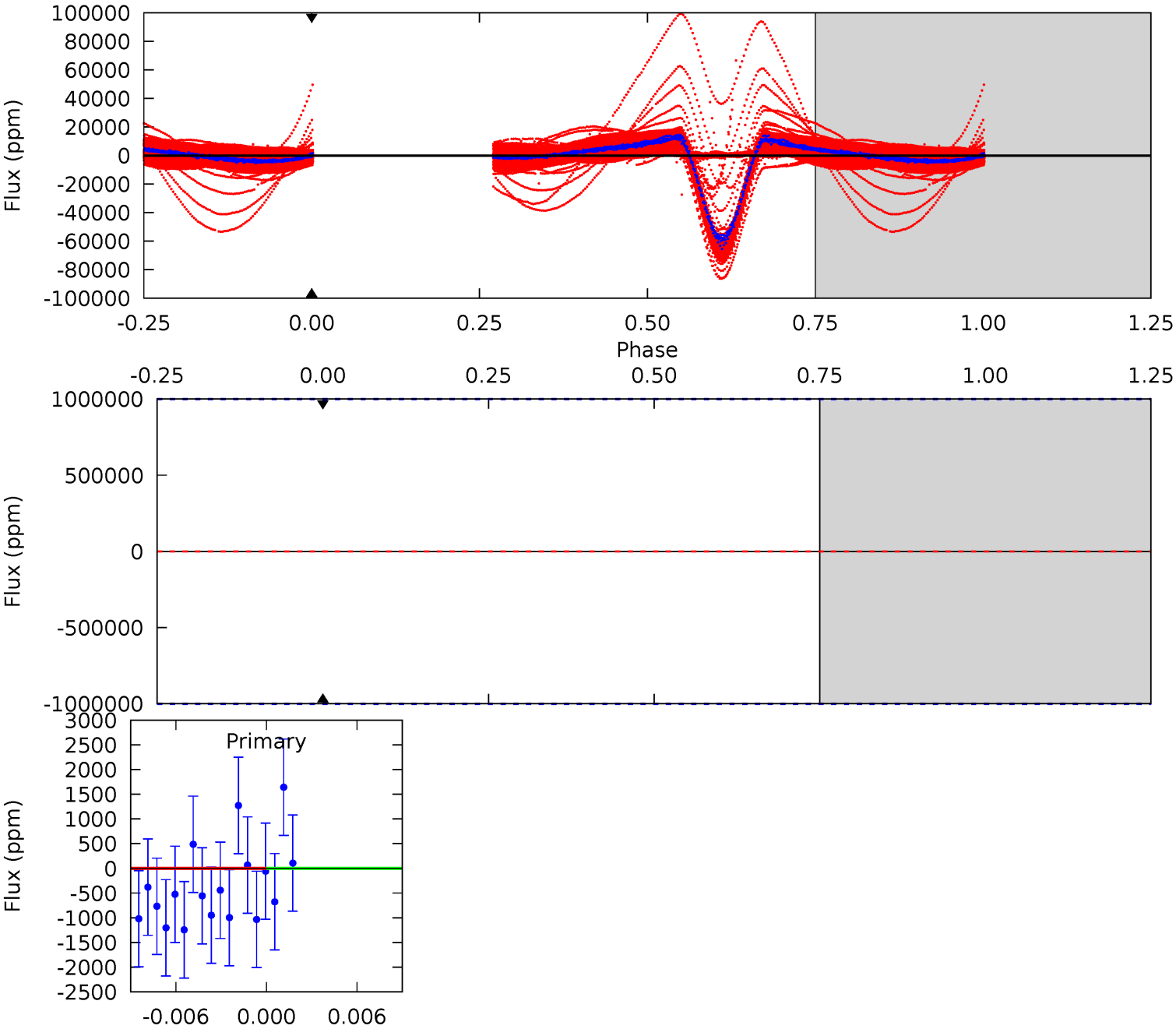
TCE 007938468-03 P= 7.226839 Days $T_0=136.113181$ (BKJD)



DV Model-Shift Uniqueness Test

007938468-03, P = 7.226839 Days, E = 128.146098 Days

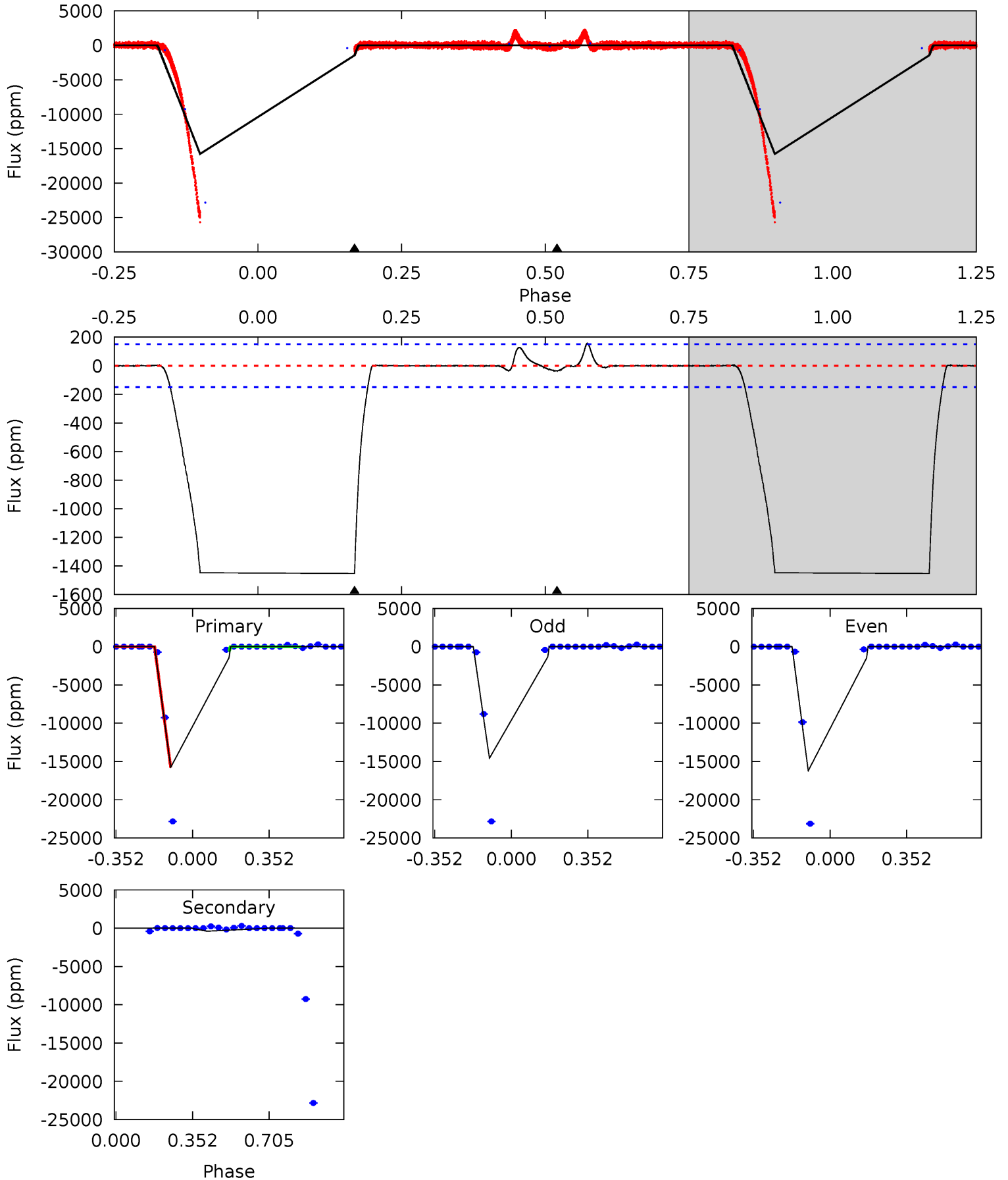
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007938468-03, P = 7.226839 Days, E = 128.886342 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.5	1.02	0	0	4.29	0.93	6.92	41.5	41.5	1.02	1.02	2.28	1.00	0.10	0



Stellar Parameters For KIC 007938468

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6270^{+188}_{-206}	$4.199^{+0.209}_{-0.171}$	$-0.220^{+0.300}_{-0.300}$	$1.360^{+0.395}_{-0.323}$	$1.064^{+0.185}_{-0.123}$	$0.596^{+0.628}_{-0.311}$
	+3%/-3%	+5%/-4%	+136%/-136%	+29%/-24%	+17%/-12%	+105%/-52%
Source	PHO1	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 007938468-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$12.31^{+12.30}_{-8.69}$	1638^{+122}_{-125}	4325^{+18419}_{-26129}	30^{+4018}_{-3339}
Alt.	-36 ± 35	$31.62^{+15.69}_{-15.01}$	1647^{+116}_{-126}	-2164^{+4172}_{-154}	$0.098^{+0.302}_{-0.099}$

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 $A_{obs} \gg 1.0$

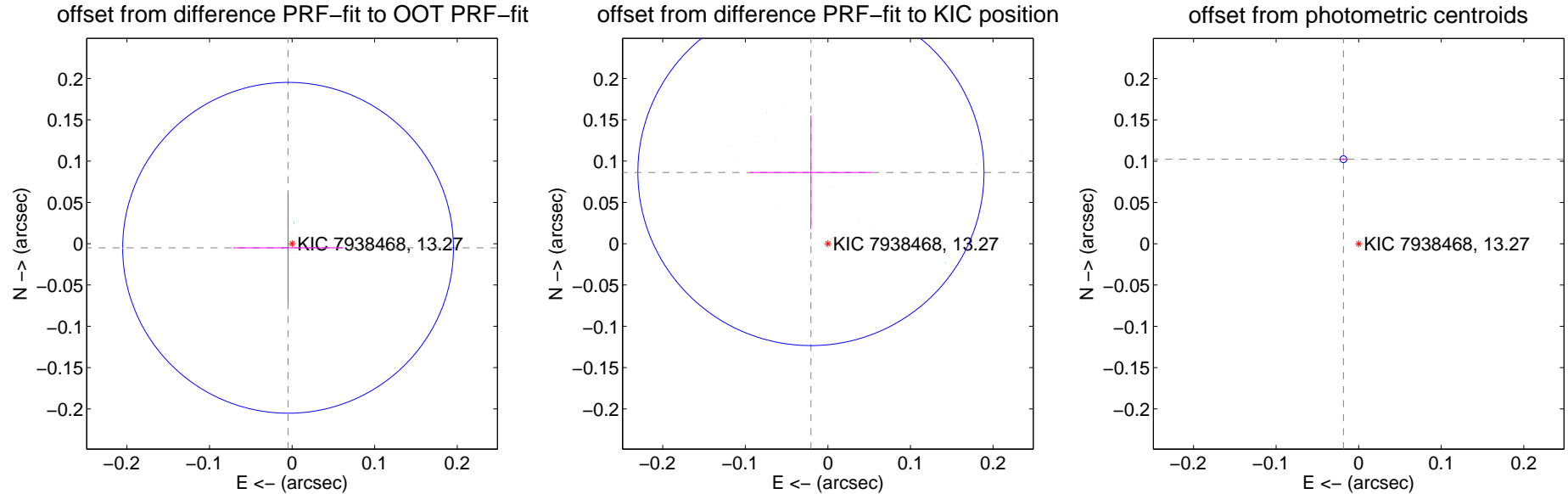
DV Centroid Data

Supplemental centroid analysis for 007938468-03. Kepler magnitude: 13.27. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

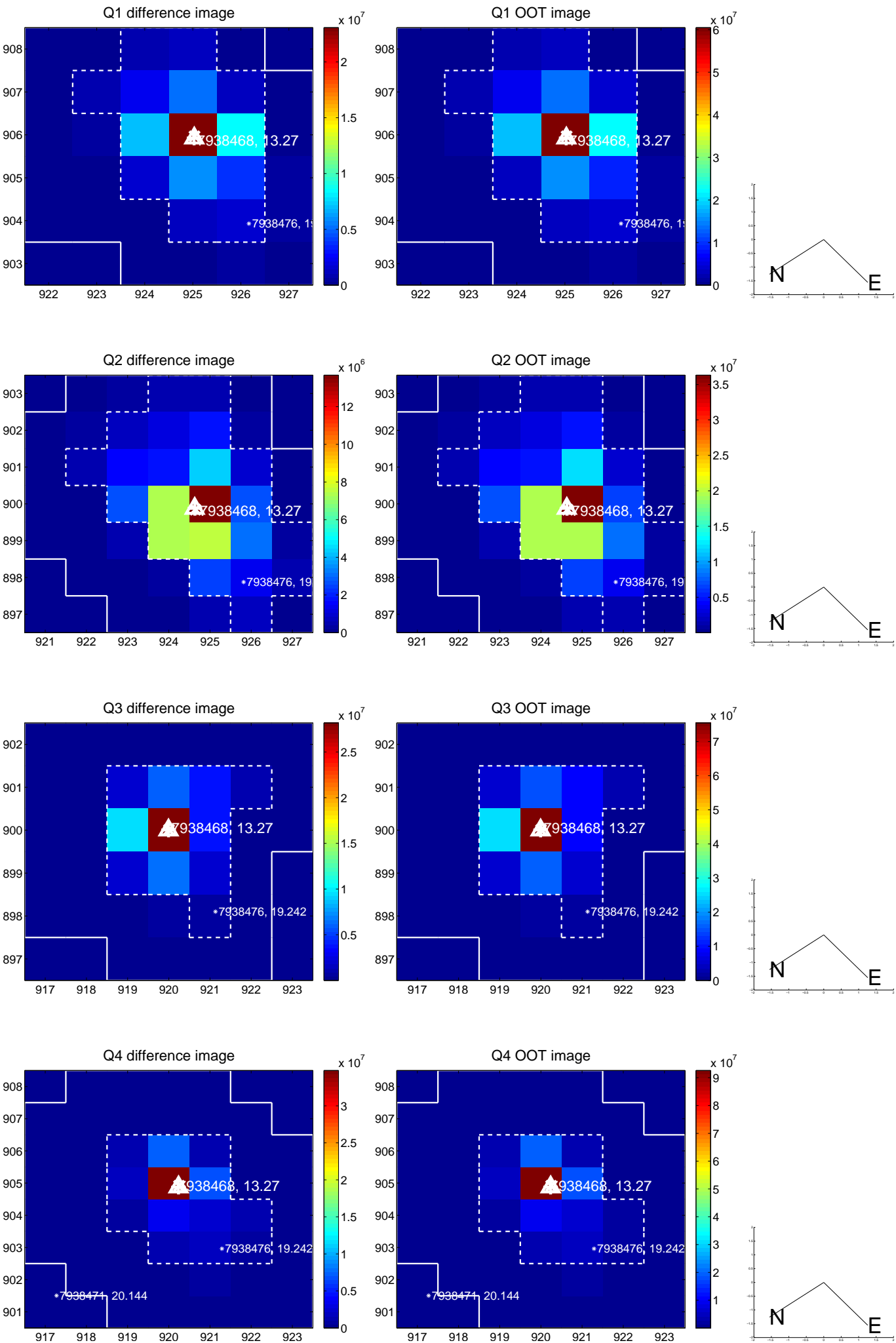
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.007 ± 0.067	0.10	0.005 ± 0.067	-0.005 ± 0.067
PRF-fit source offset from KIC position	0.089 ± 0.070	1.27	0.021 ± 0.074	0.086 ± 0.069
photometric centroid source offset	0.10 ± 0.00	75.79	0.02 ± 0.00	0.10 ± 0.00

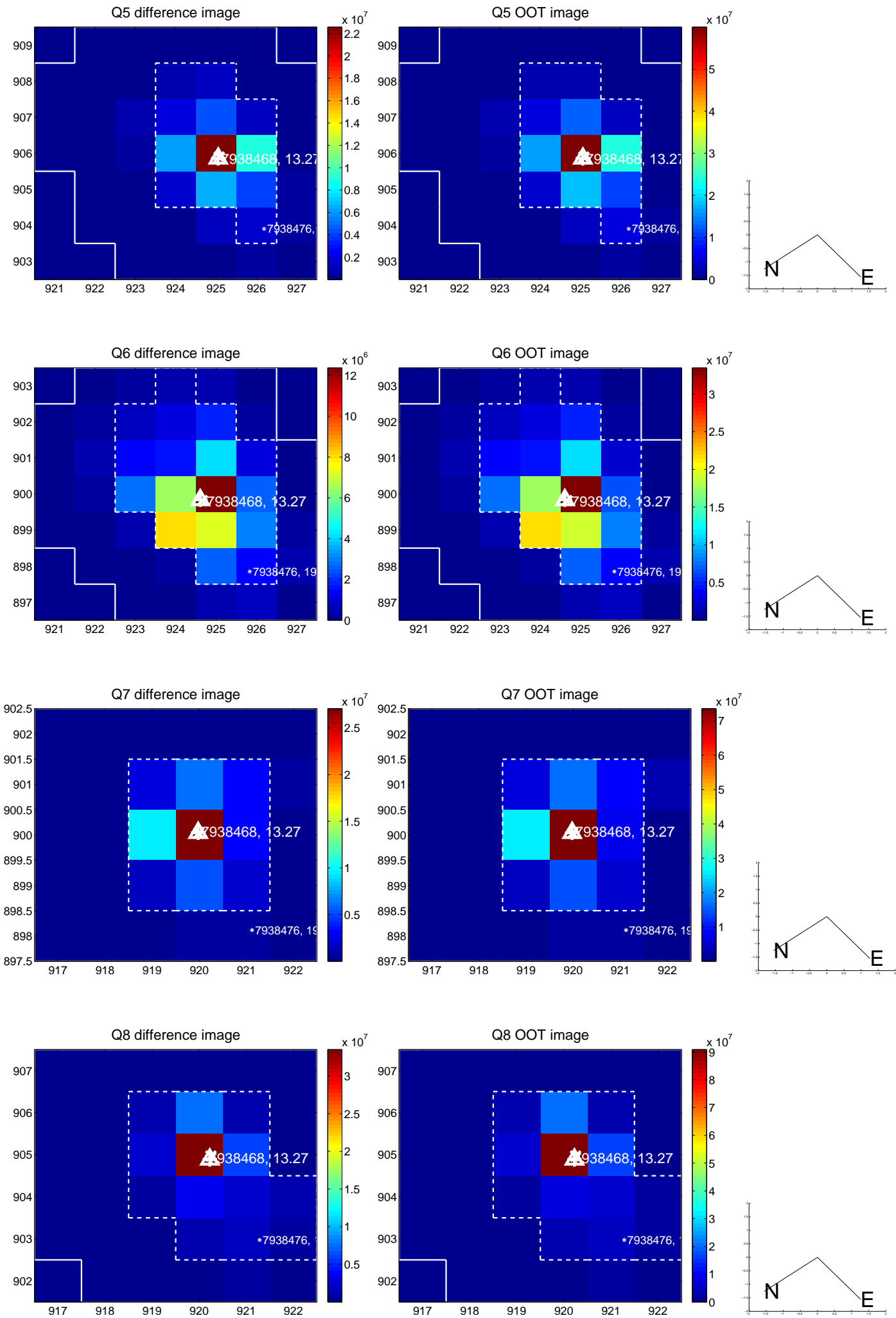


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

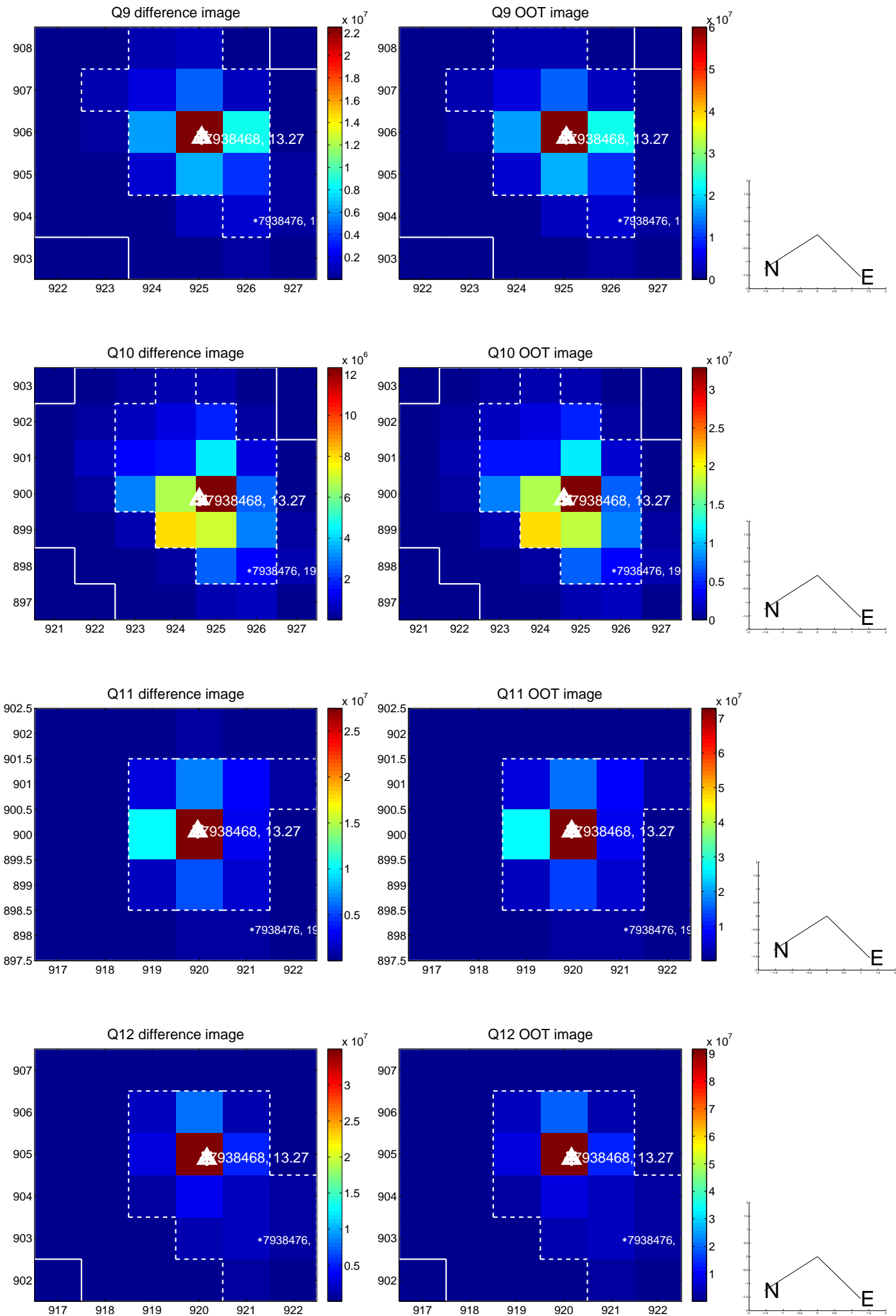
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



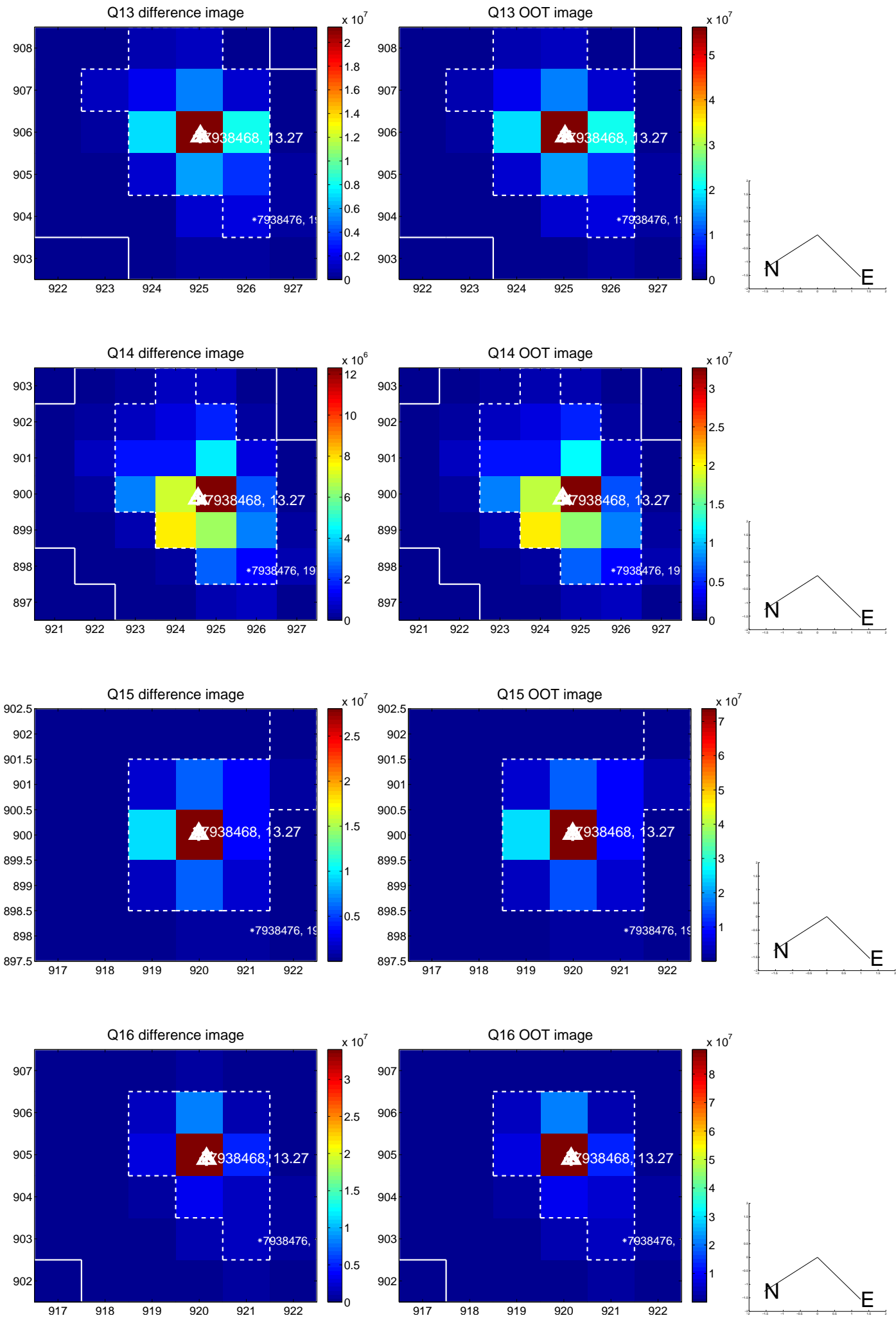
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



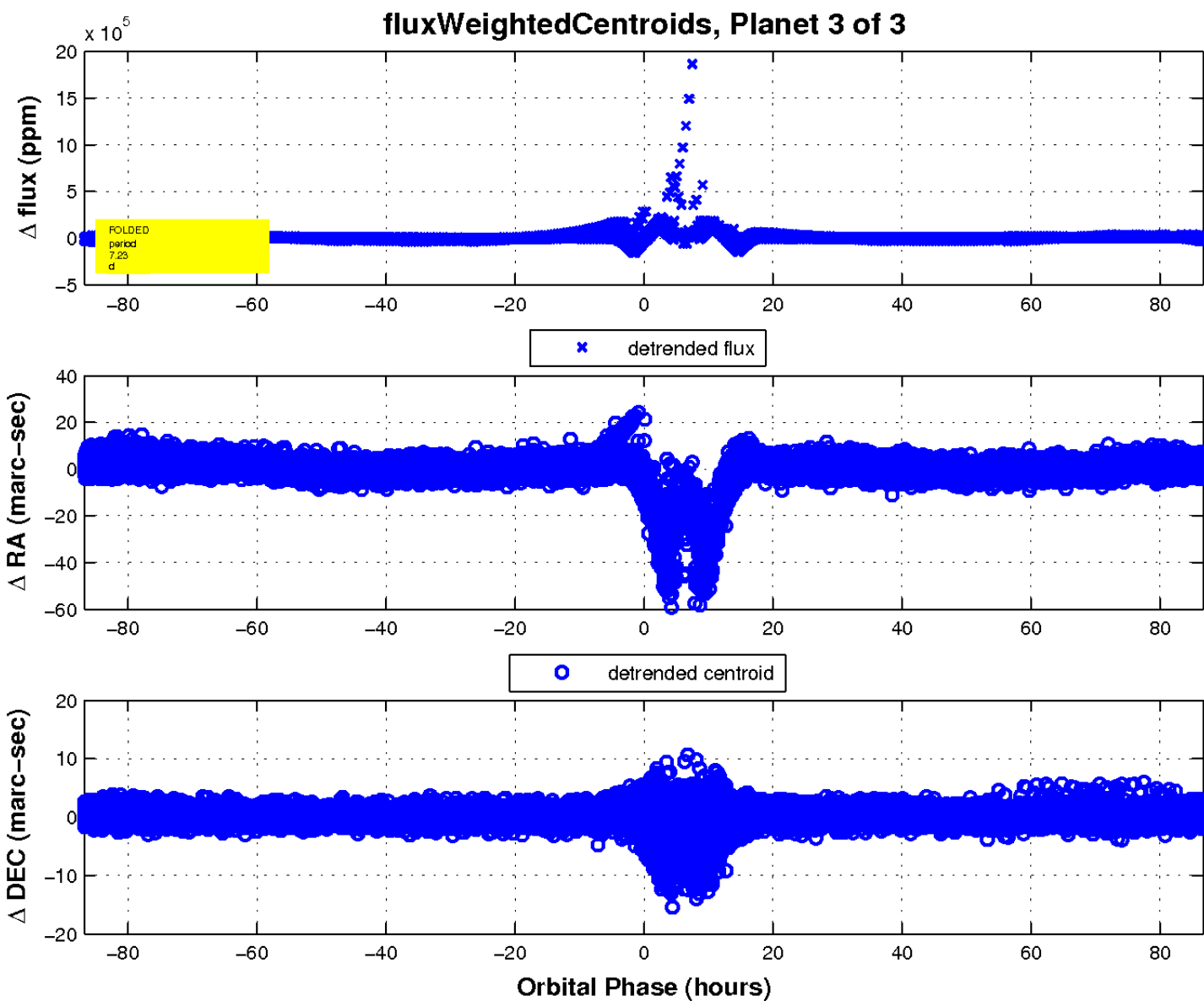
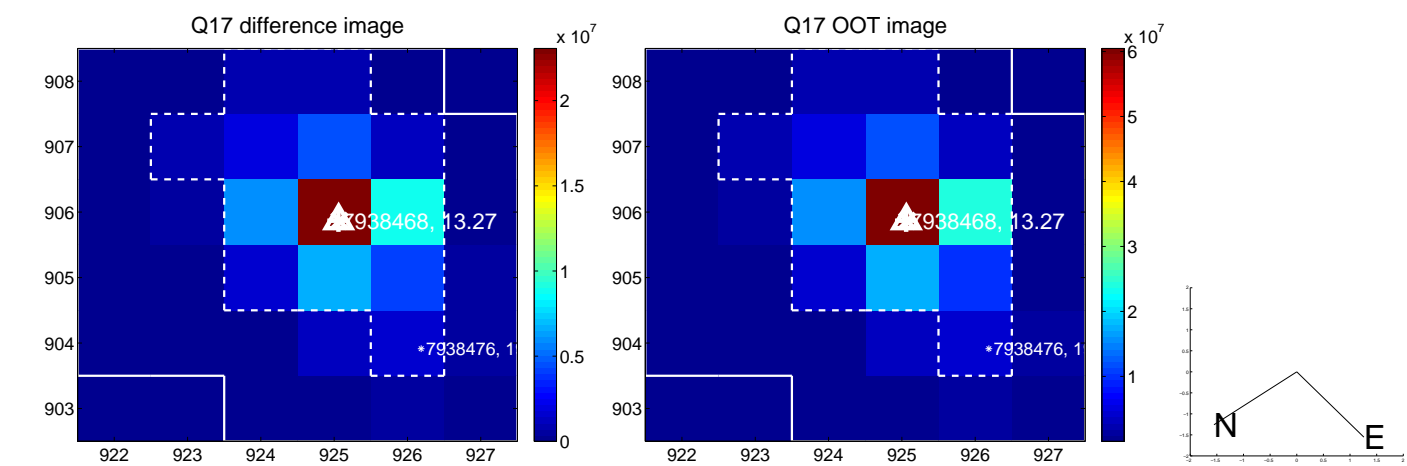
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

