

KIC 005768927

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})
005768927-01	OBS	6135.01	4.390514	132.550947	46727.9	2.963	4135.6	3836.6	1.45	6081	44.20	911.63
005768927-02	OBS	No	4.390516	134.746101	1544.2	2.812	139.3	151.2	1.45	6081	10.46	911.63
005768927-03	OBS	No	261.233950	351.840498	1365.1	7.815	11.7	8.0	1.45	6081	10.19	3.92

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005768927-01	OBS	FP	0.02	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
005768927-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
005768927-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—CENT_FEW_DIFFS—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.

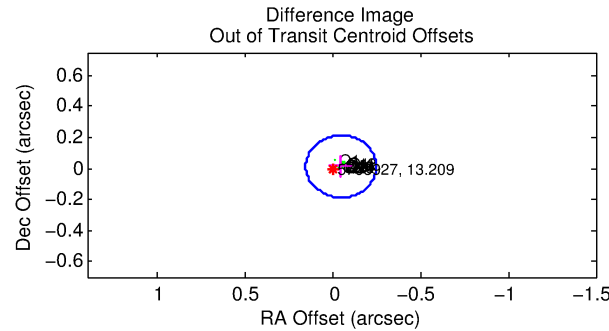
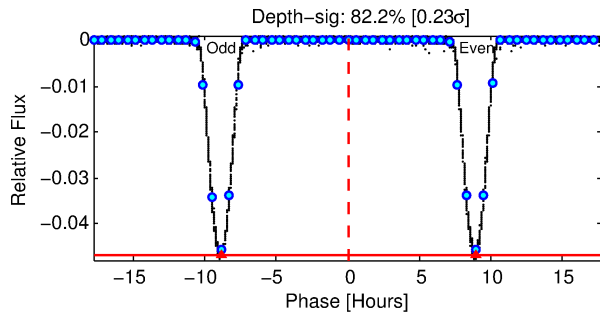
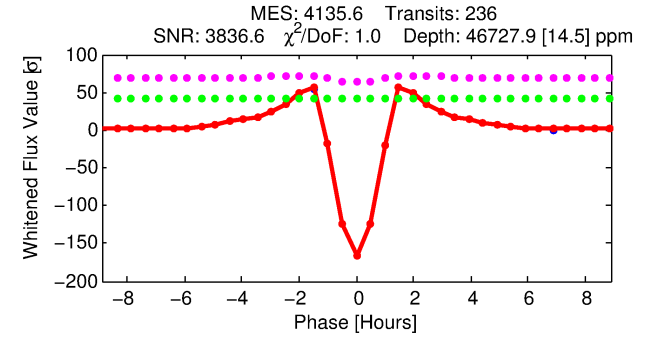
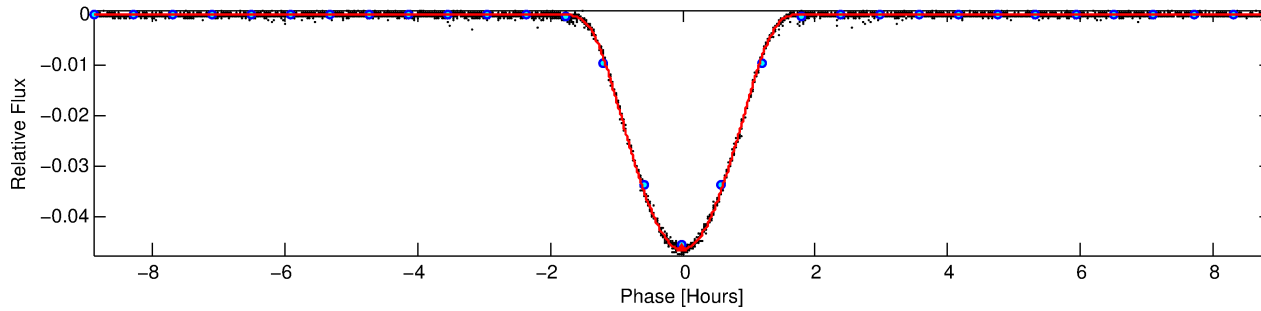
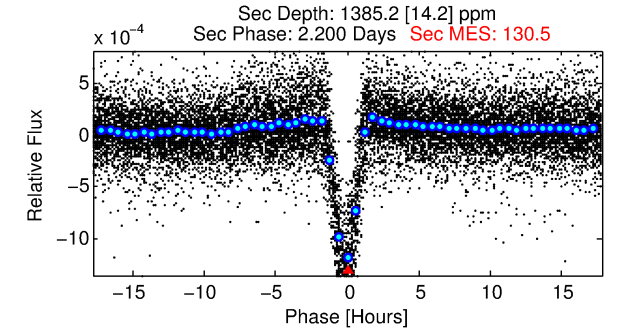
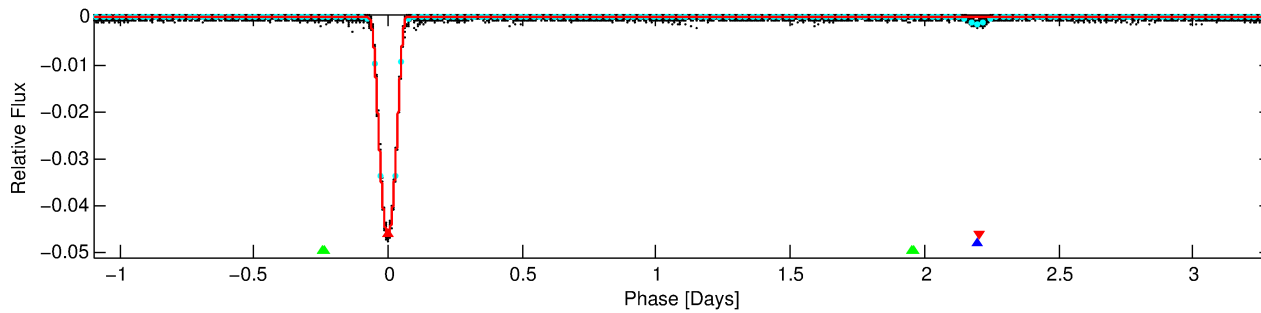
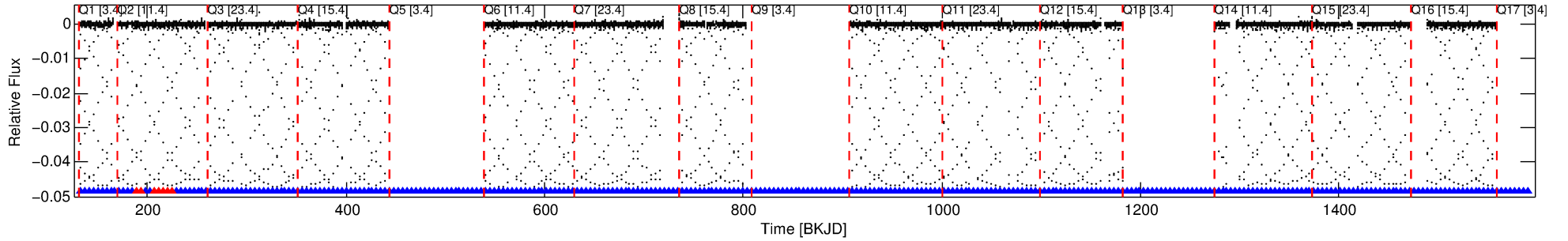
Ephemeris Match Information For 005768927-01

No Significant Match Found

DV One-Page Summary

KIC: 5768927 Candidate: 1 of 3 Period: 4.391 d
KOI: K06135.01 Corr: 0.998

Kp: 13.21 R*: 1.45 Rs Teff: 6081.0 K Logg: 4.13 Fe/H: -0.160



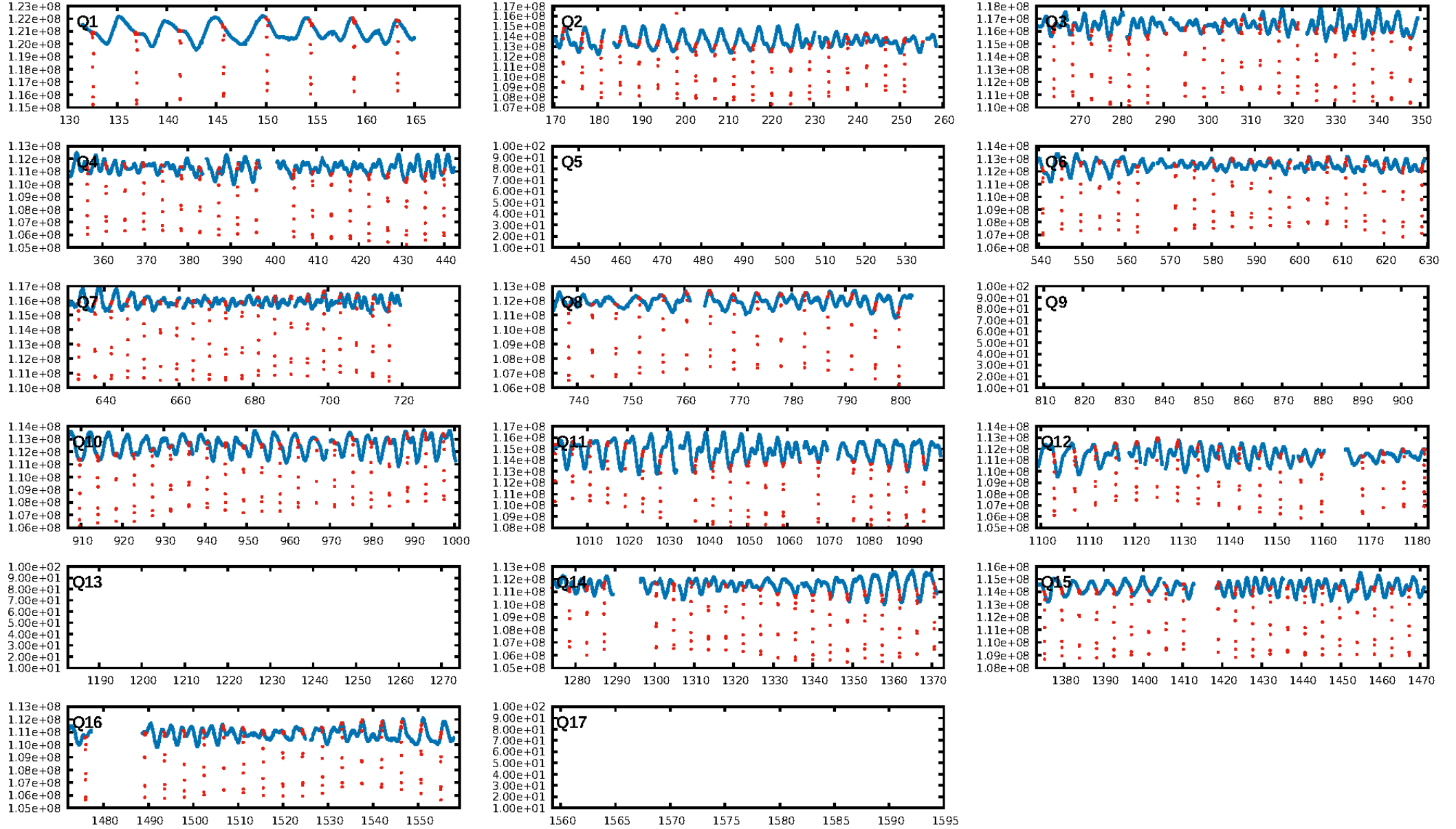
DV Fit Results:

Period = 4.39051 [0.00000] d
Epoch = 132.5509 [0.0000] BKJD
Rp/R* = 0.2785 [0.0019]
a/R* = 10.26 [0.01]
b = 0.91 [0.00]
Seff = 911.63 [458.08]
Teq = 1401 [176] K
Rp = 44.20 [14.11] Re
a = 0.0533 [0.0163] AU
Ag = 1.11 [0.54] [0.20σ]
Teffp = 2223 [68] K [4.36σ]

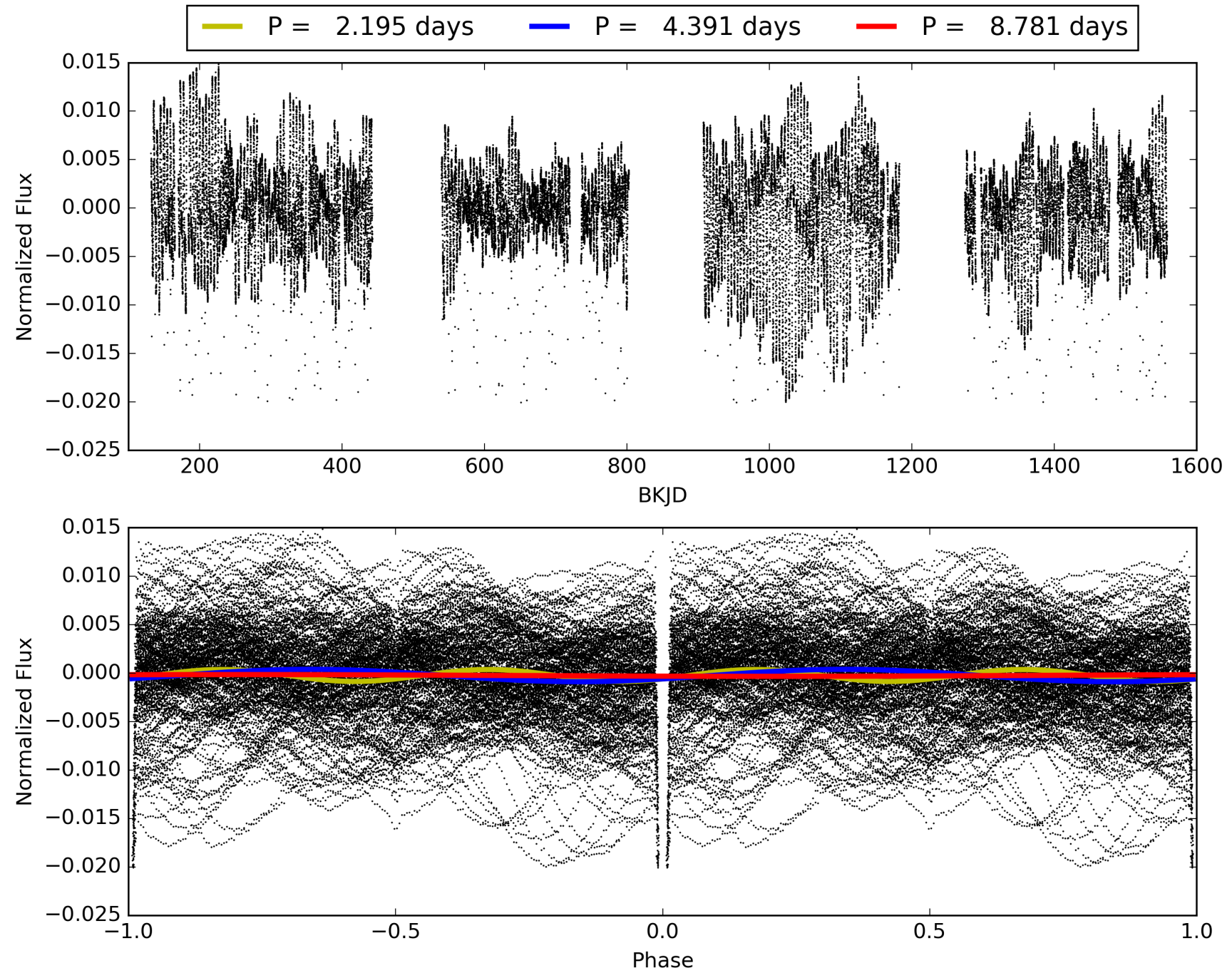
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.97 [221/228]
GhostDiagnostic-chr: 4.646
Centroid-sig: 0.0%
Centroid-so: 0.153 arcsec [55.80σ]
OotOffset-rm: 0.048 arcsec [0.72σ]
KicOffset-rm: 0.094 arcsec [1.34σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 1.00 [13/13]

TCE 005768927-01, PDC Light Curves

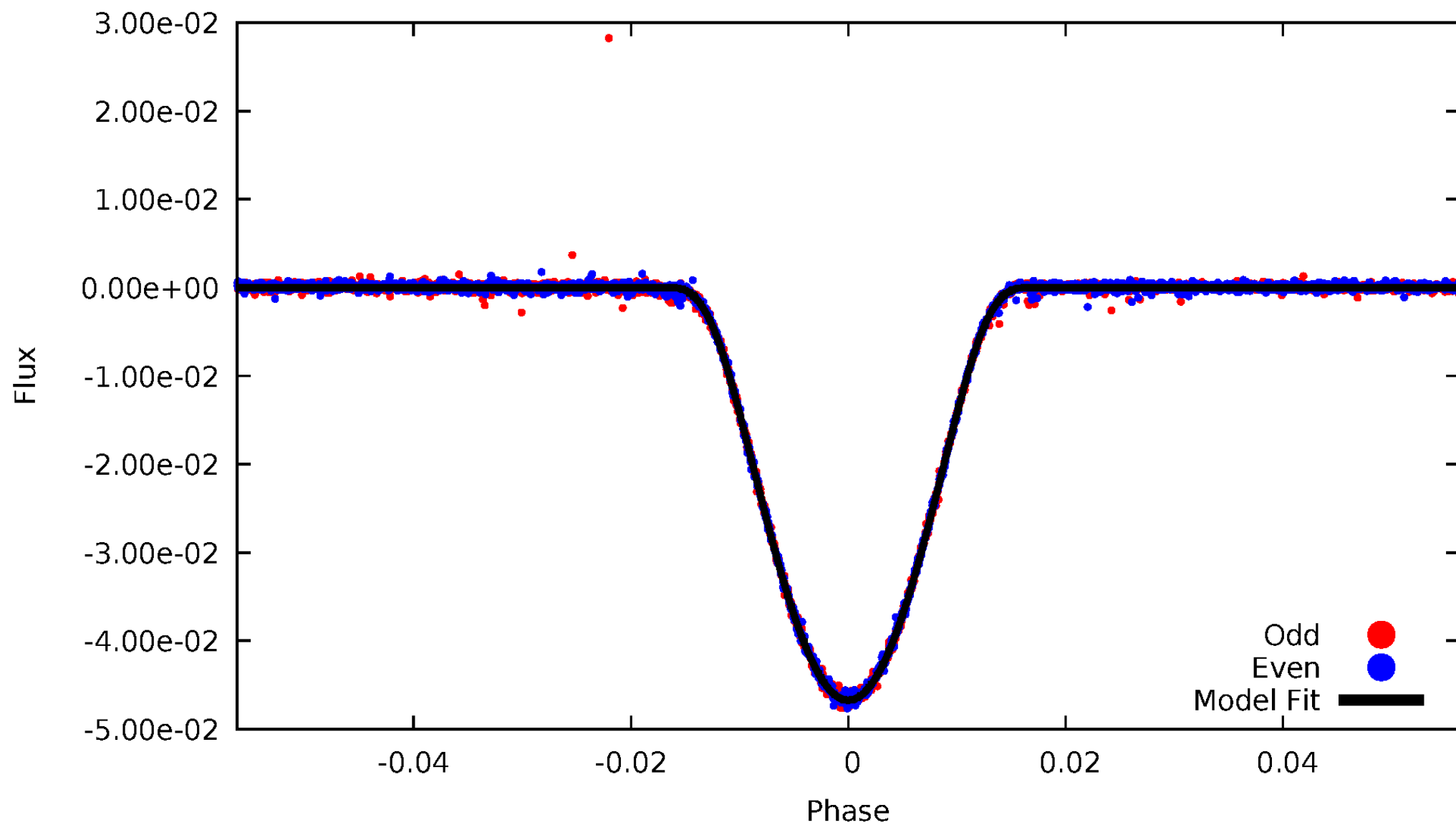


TCE 005768927-01



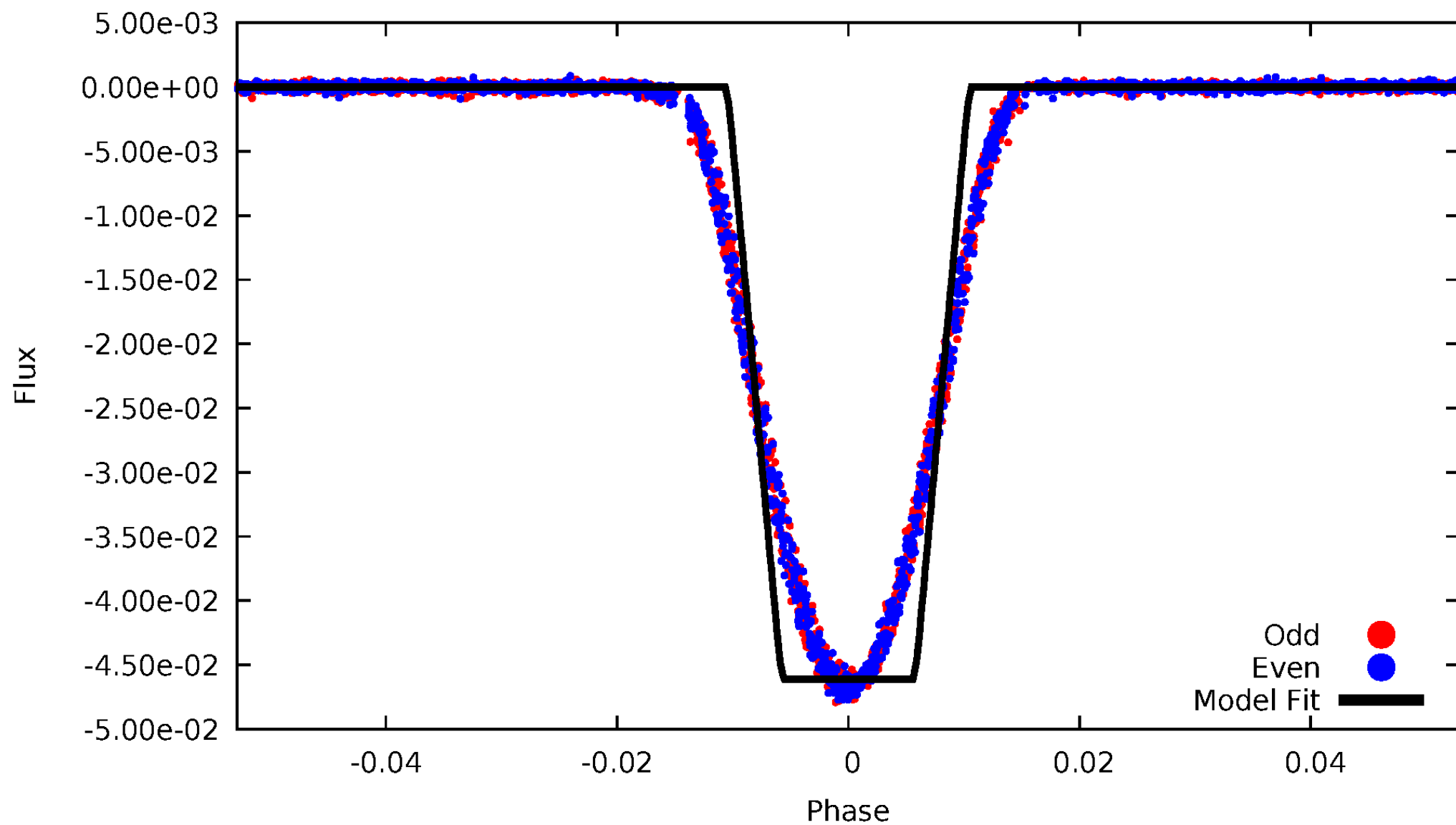
DV Odd/Even

TCE 005768927-01



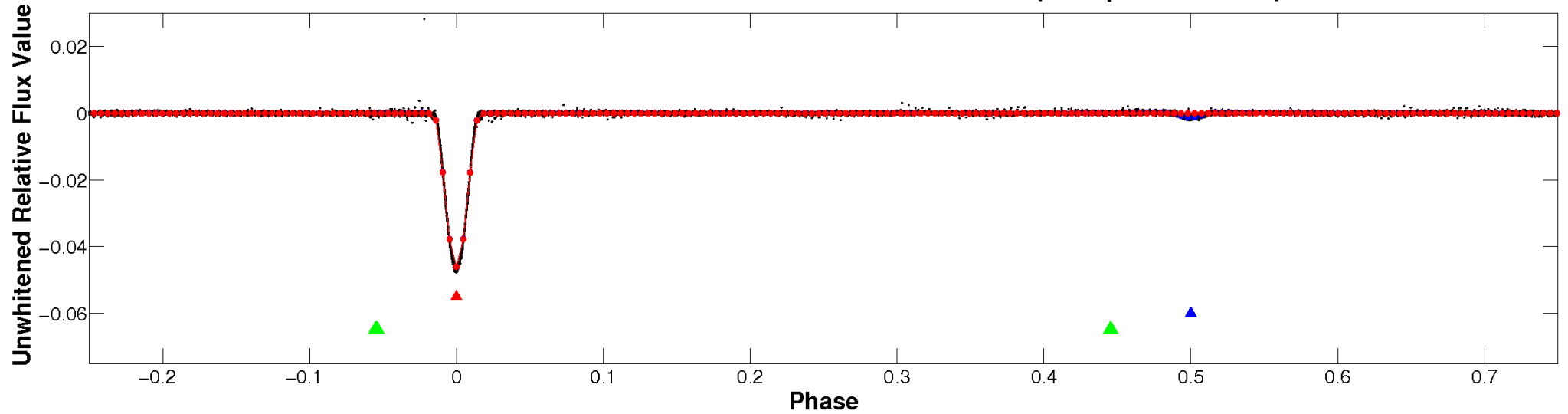
ALT Odd/Even

TCE 005768927-01

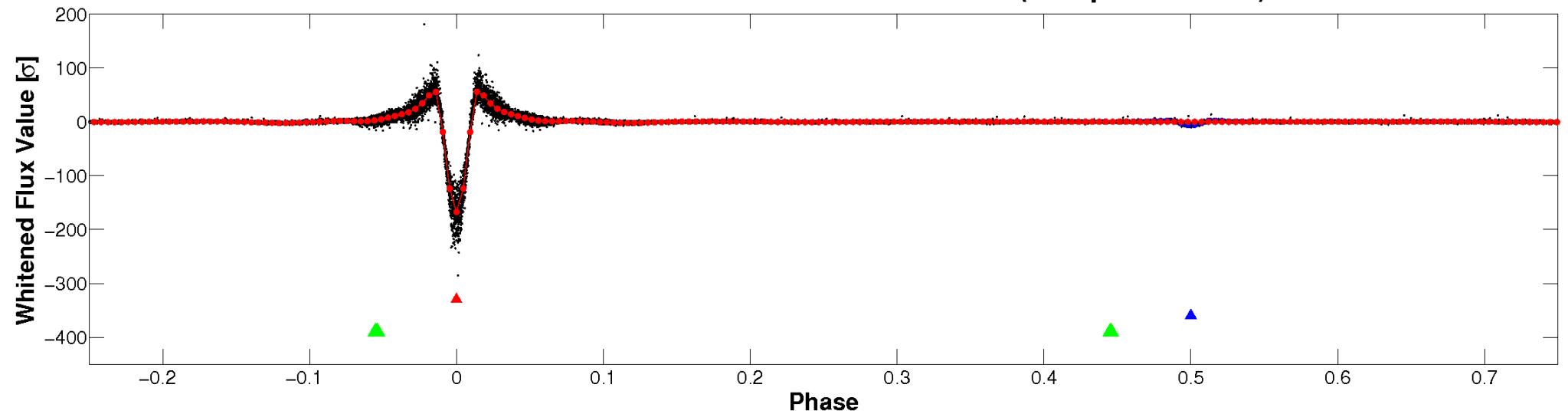


Non-Whitened Vs. Whitened Light Curve

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

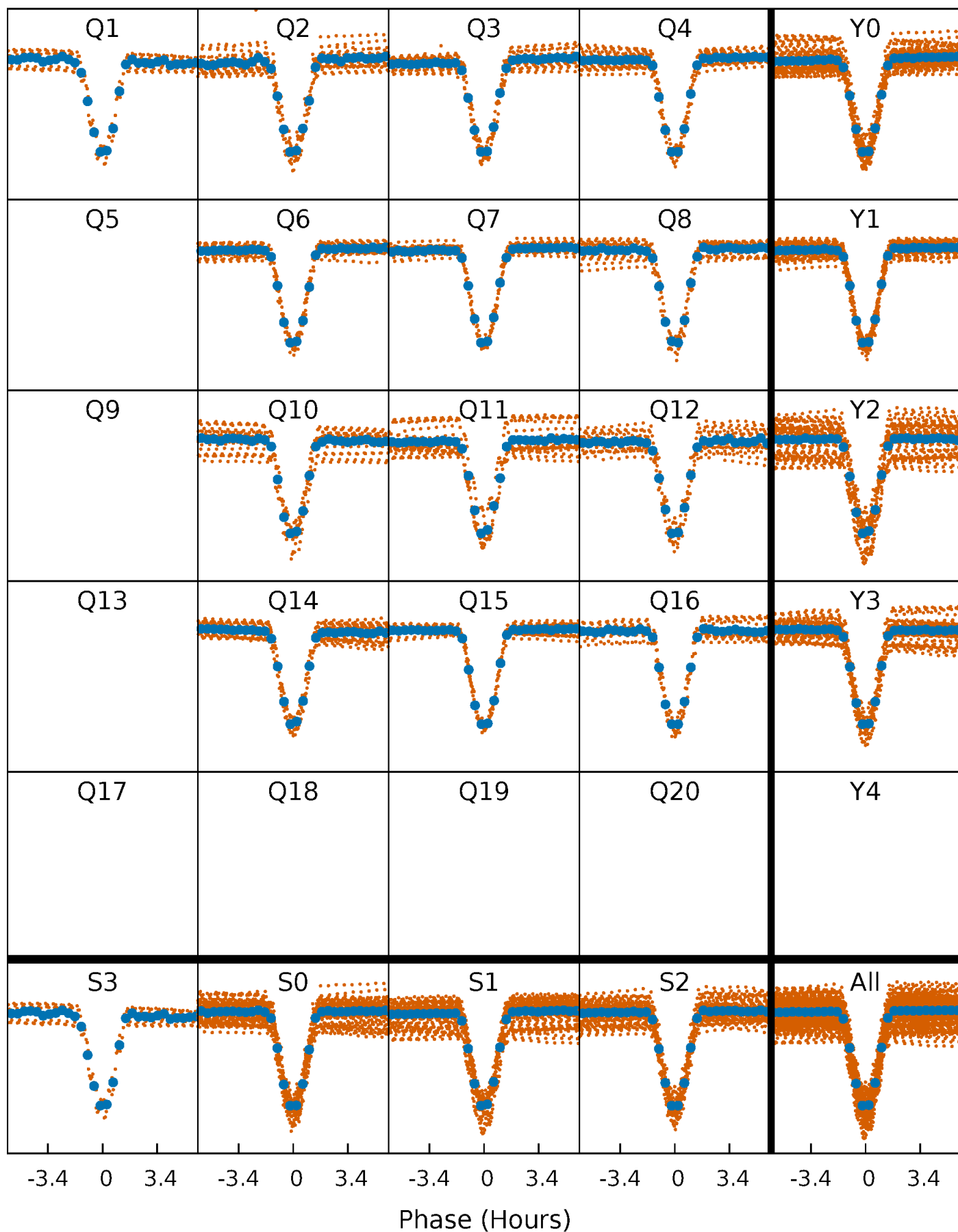


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



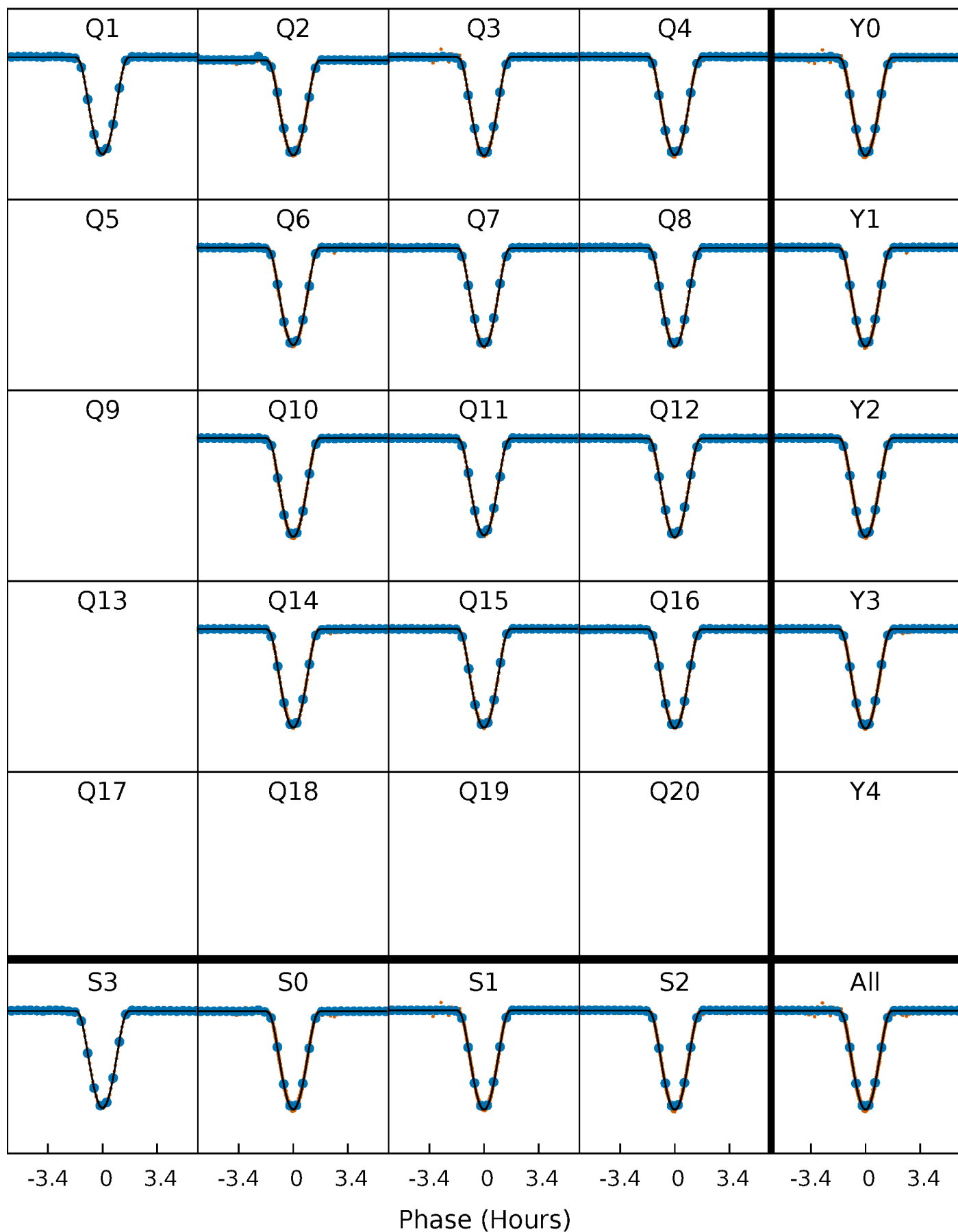
PDC Quarter-Phased Transit Curves

TCE 005768927-01 P= 4.390514 Days $T_0=132.550947$ (BKJD)



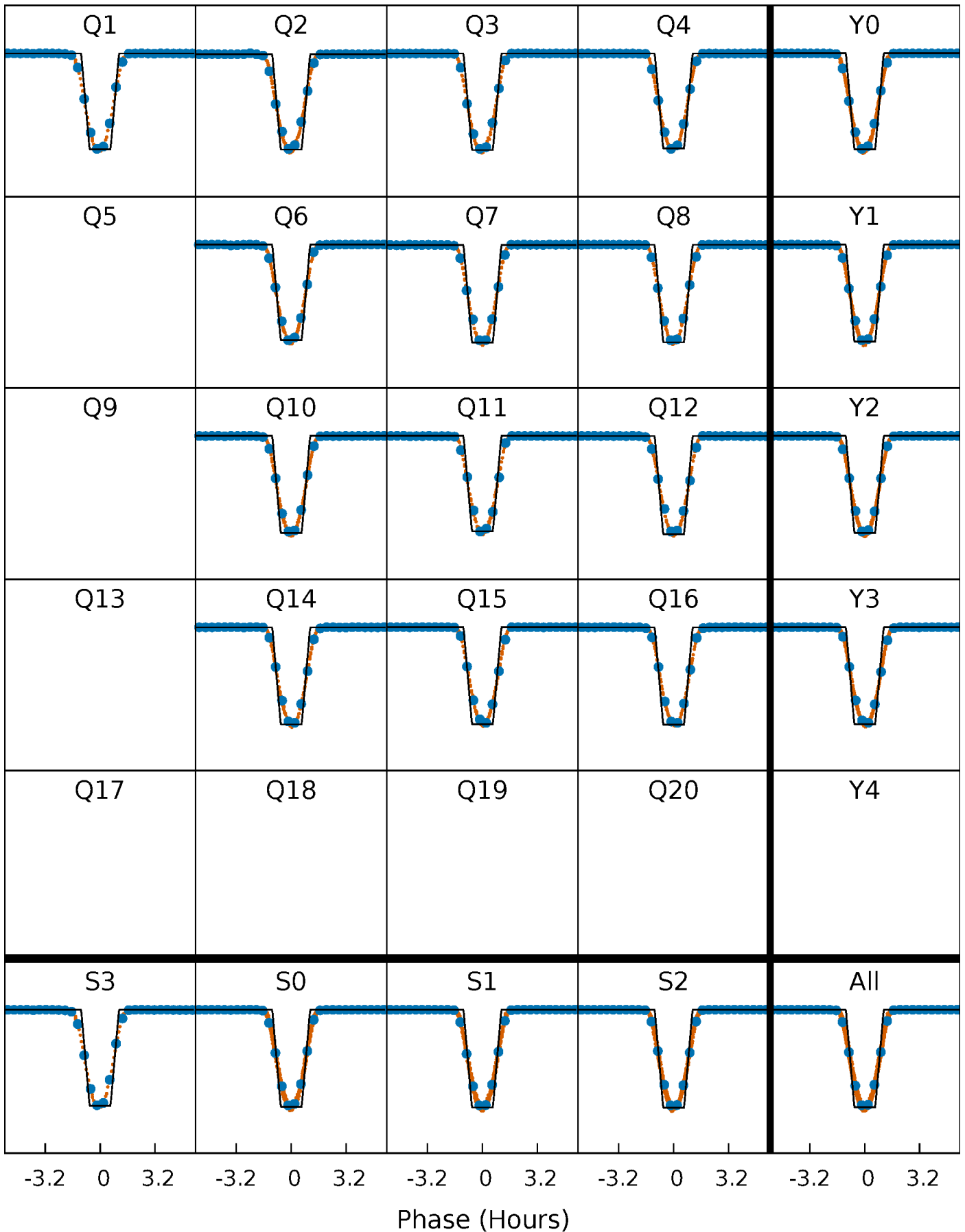
DV Quarter-Phased Transit Curves

TCE 005768927-01 P= 4.390514 Days $T_0=132.550947$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

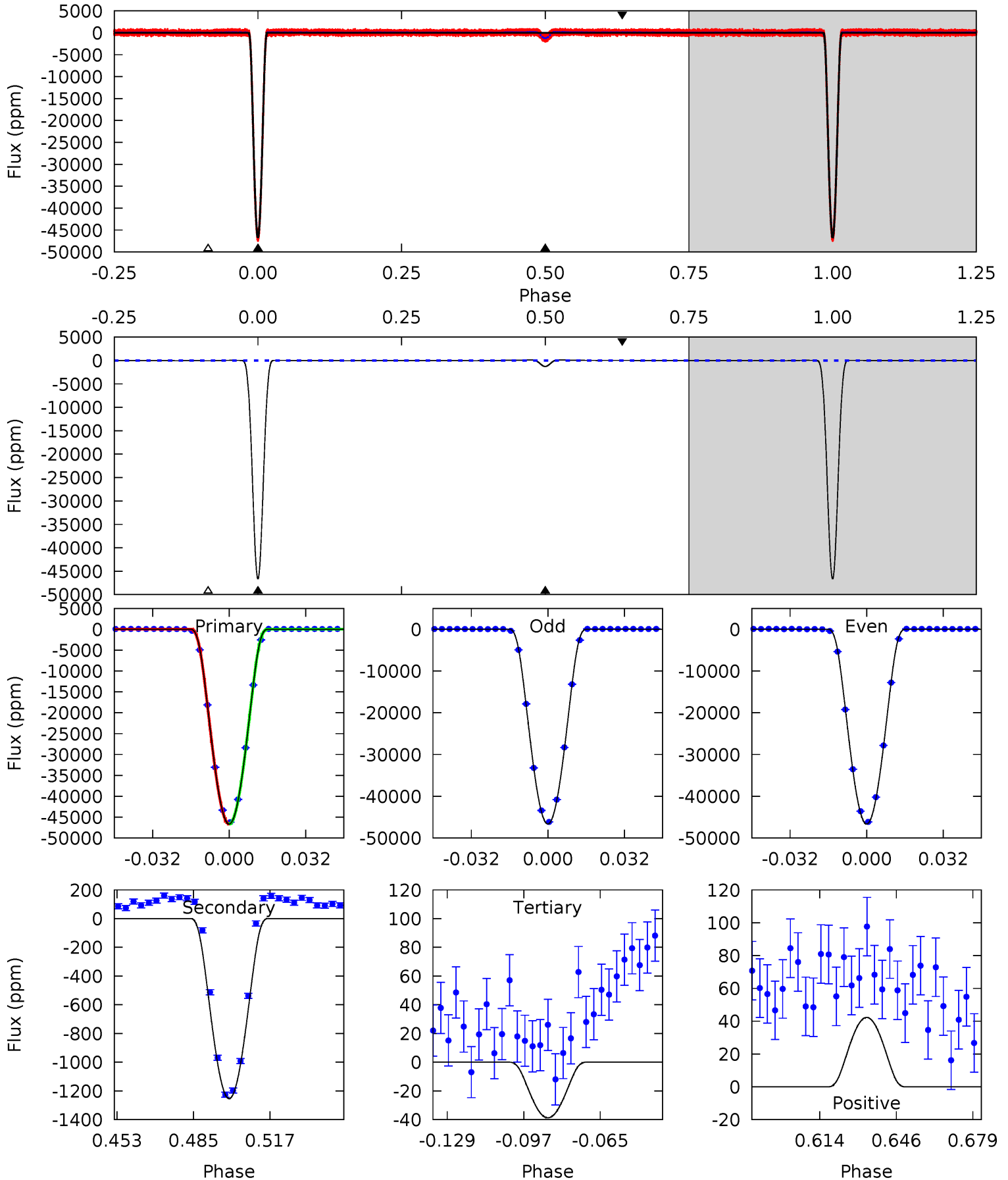
TCE 005768927-01 P= 4.390499 Days $T_0=132.553401$ (BKJD)



DV Model-Shift Uniqueness Test

005768927-01, P = 4.390514 Days, E = 128.160433 Days

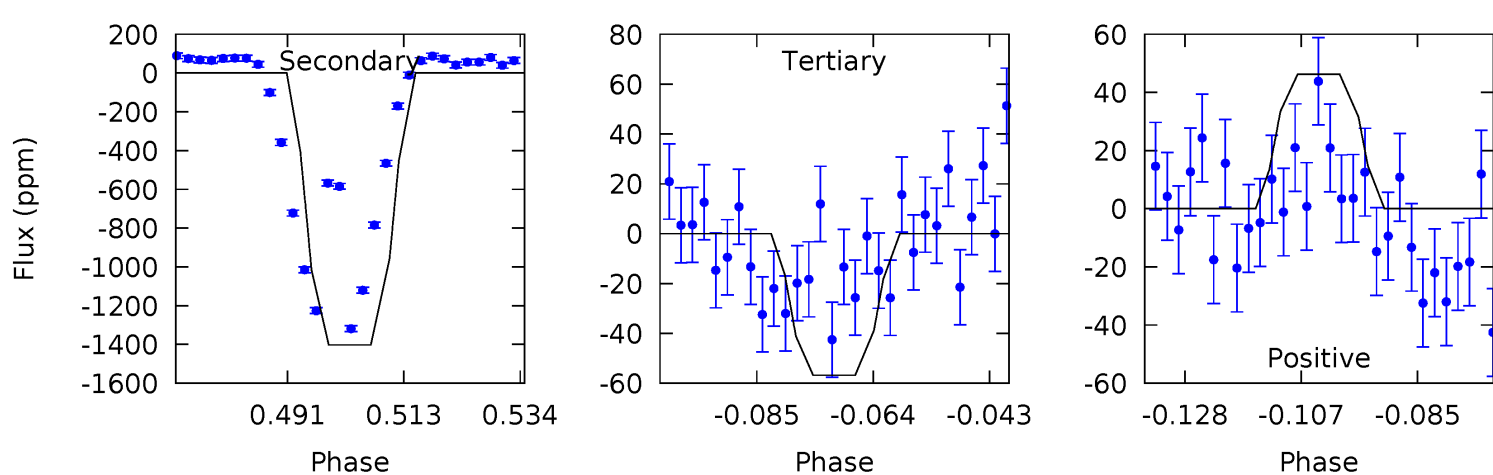
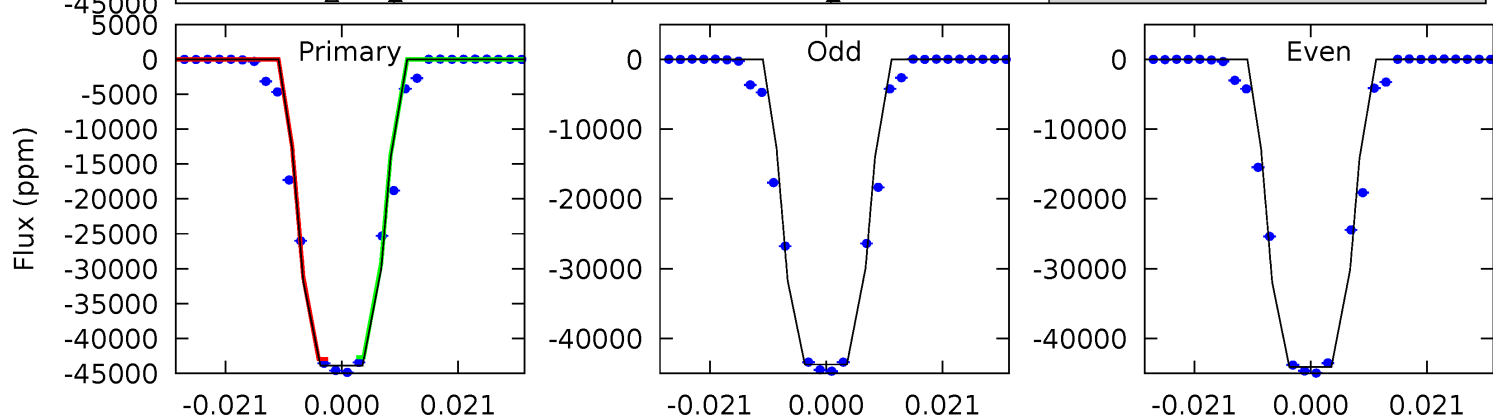
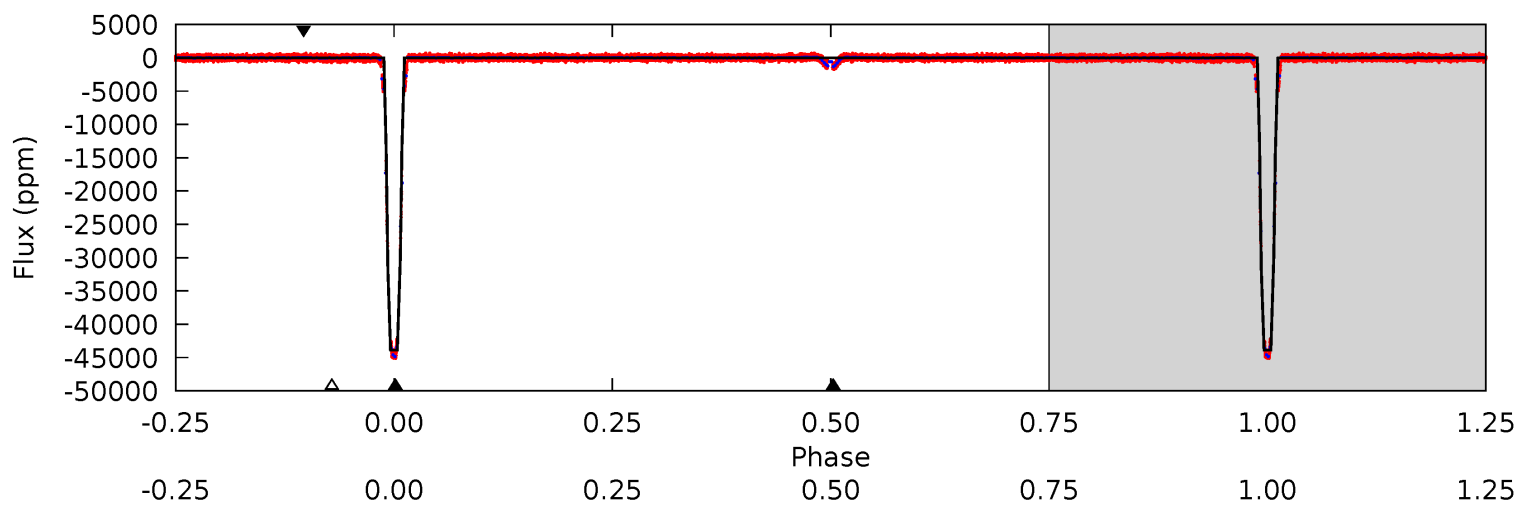
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8353	224.5	6.94	7.57	4.80	2.14	5.12	8346	8346	217.6	217.0	0.98	1.00	0.00	1.15



Alt Model-Shift Uniqueness Test

005768927-01, P = 4.390499 Days, E = 128.162902 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3247	103.7	4.20	3.42	4.88	2.30	1.41	3243	3244	99.5	100.3	12.6	1.00	0.00	0



Stellar Parameters For KIC 005768927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6081^{+165}_{-183}	$4.133^{+0.286}_{-0.154}$	$-0.160^{+0.300}_{-0.300}$	$1.454^{+0.422}_{-0.464}$	$1.046^{+0.163}_{-0.148}$	$0.480^{+0.793}_{-0.228}$
	+3%/-3%	+7%/-4%	+188%/-188%	+29%/-32%	+16%/-14%	+165%/-48%
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 005768927-01 / KOI 6135.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1254 ± 6	$43.22^{+7.27}_{-7.46}$	1928^{+166}_{-167}	2750^{+67}_{-64}	$1.048^{+0.463}_{-0.261}$
Alt.	-1402 ± 14	$33.35^{+5.51}_{-5.41}$	1935^{+150}_{-169}	3076^{+58}_{-58}	$2.009^{+0.738}_{-0.489}$

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

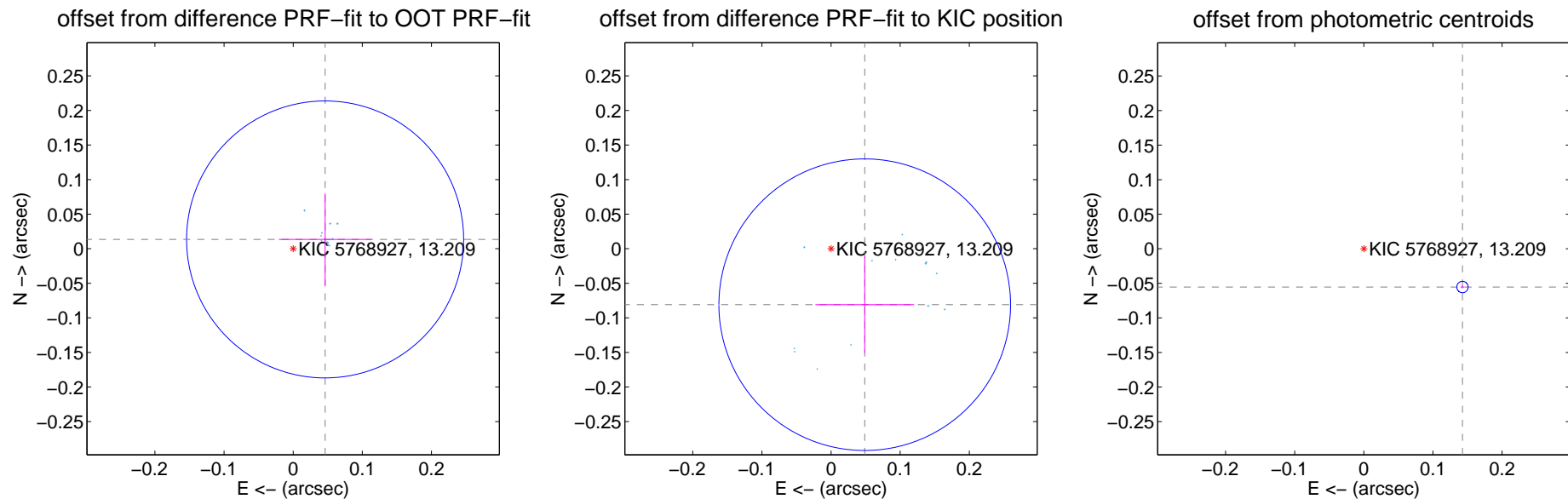
DV Centroid Data

Supplemental centroid analysis for 005768927-01. Kepler magnitude: 13.21. Transit SNR 3836.56

There are 13 quarters with good PRF difference image offsets

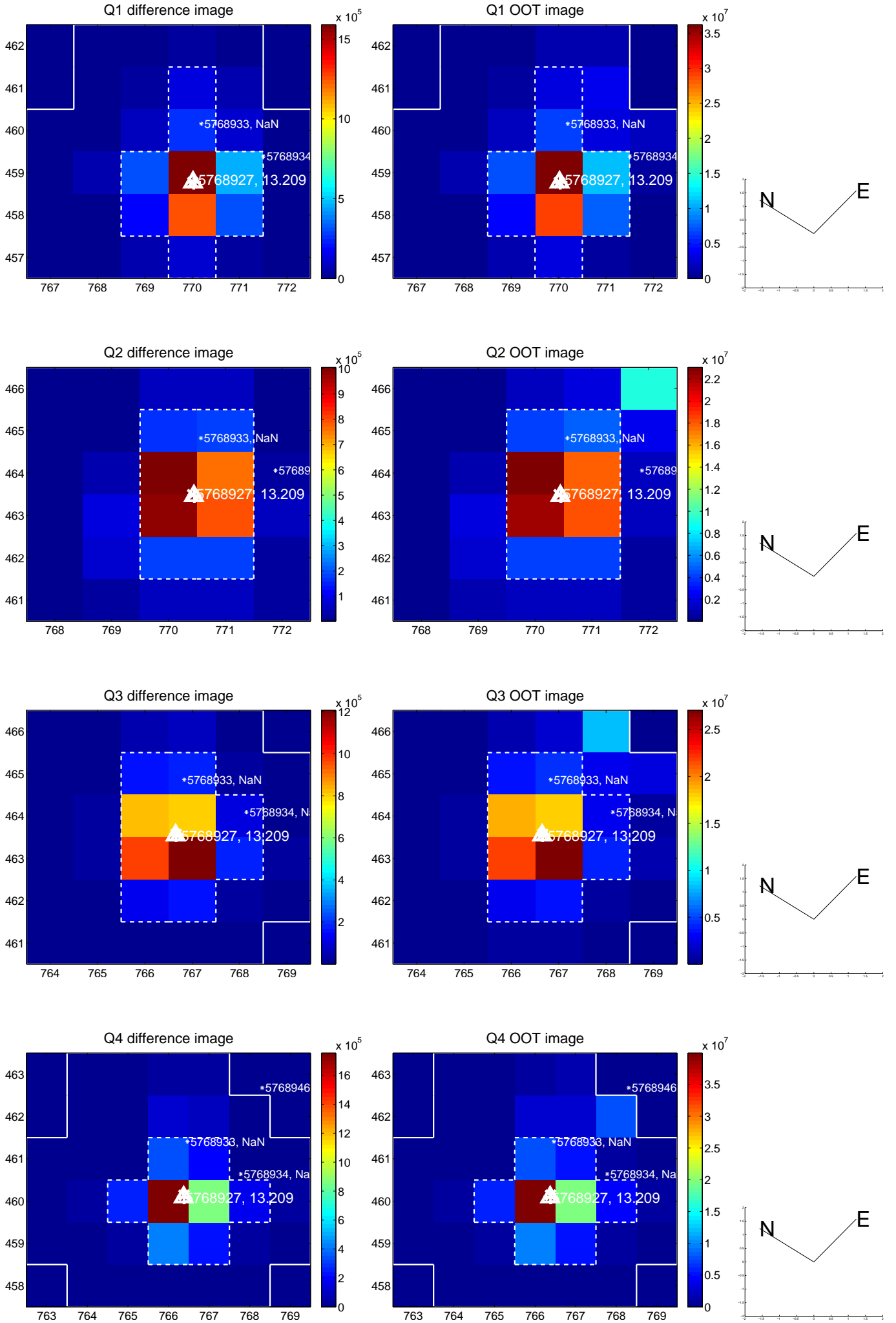
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.048 ± 0.067	0.72	-0.046 ± 0.067	0.013 ± 0.067
PRF-fit source offset from KIC position	0.094 ± 0.070	1.34	-0.049 ± 0.071	-0.081 ± 0.070
photometric centroid source offset	0.15 ± 0.00	55.80	-0.14 ± 0.00	-0.06 ± 0.00

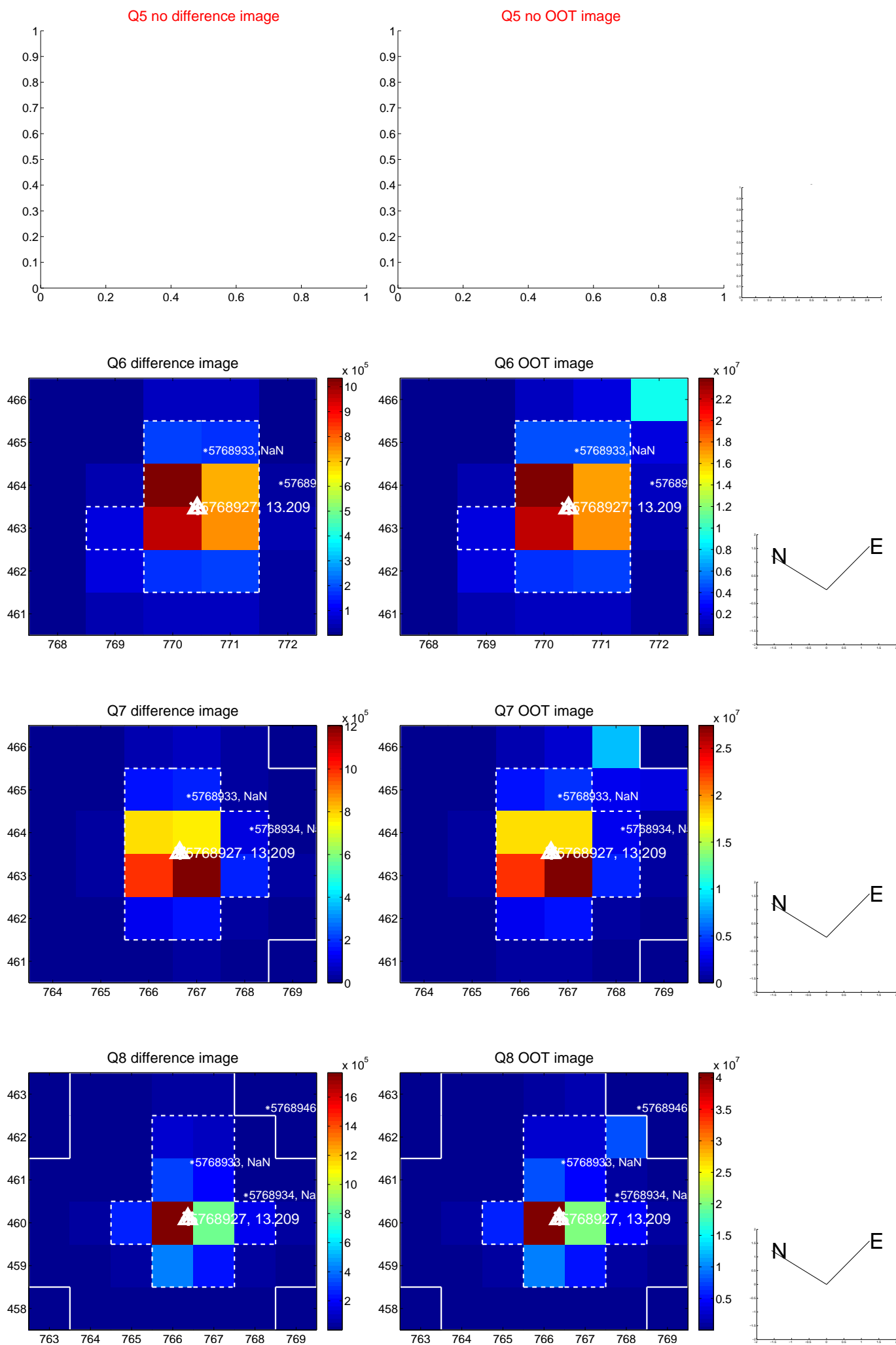


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

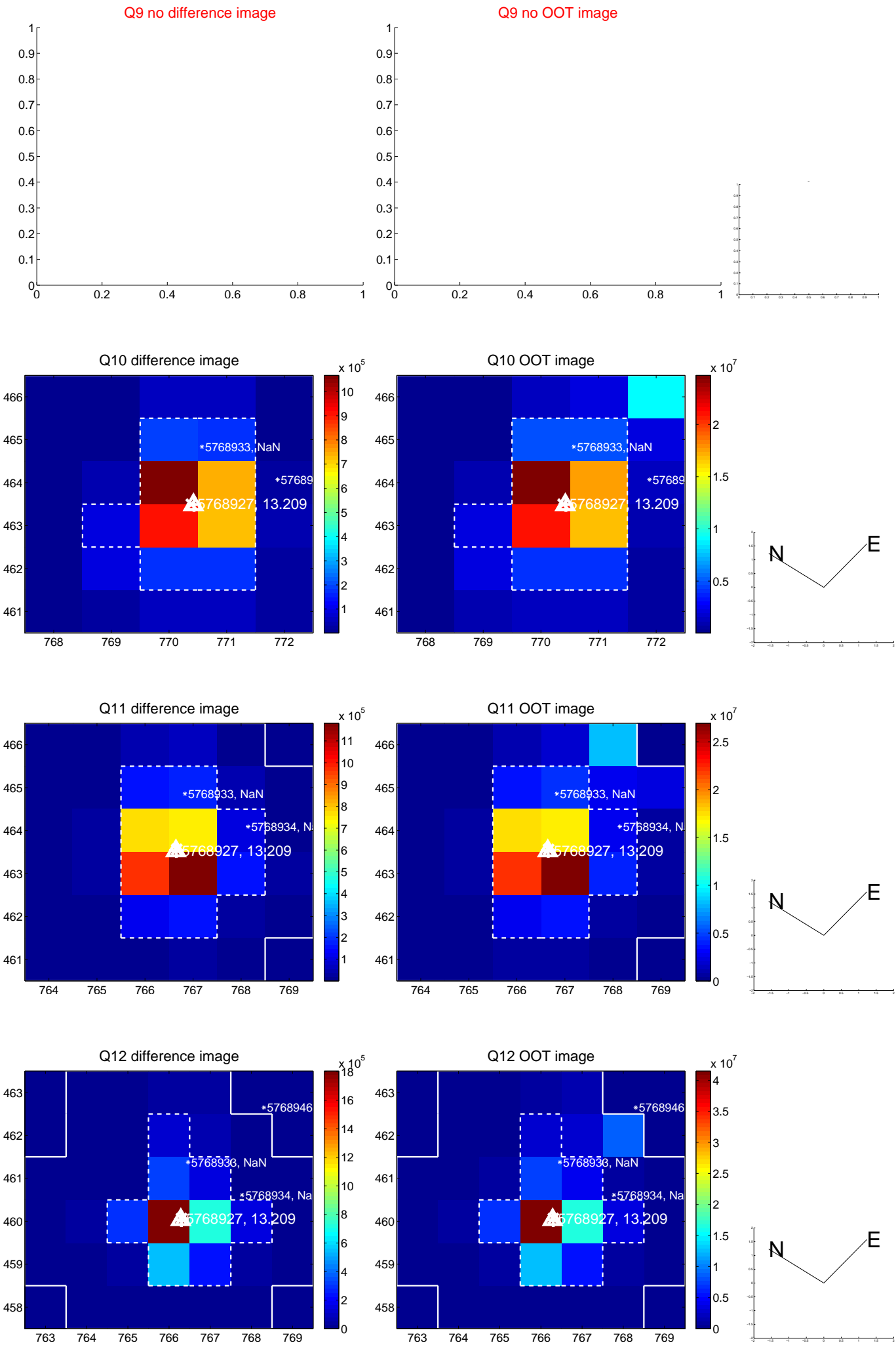
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



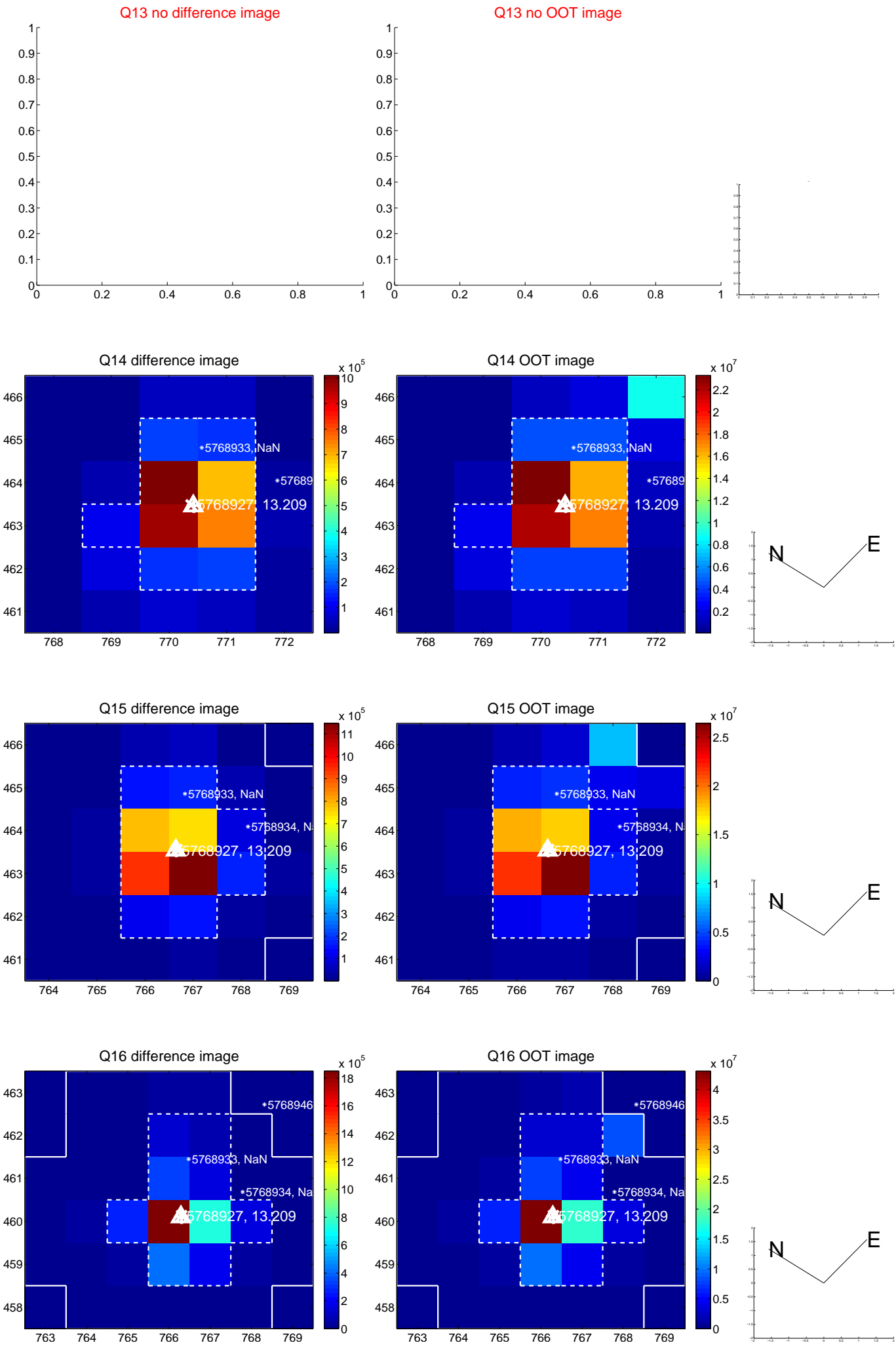
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



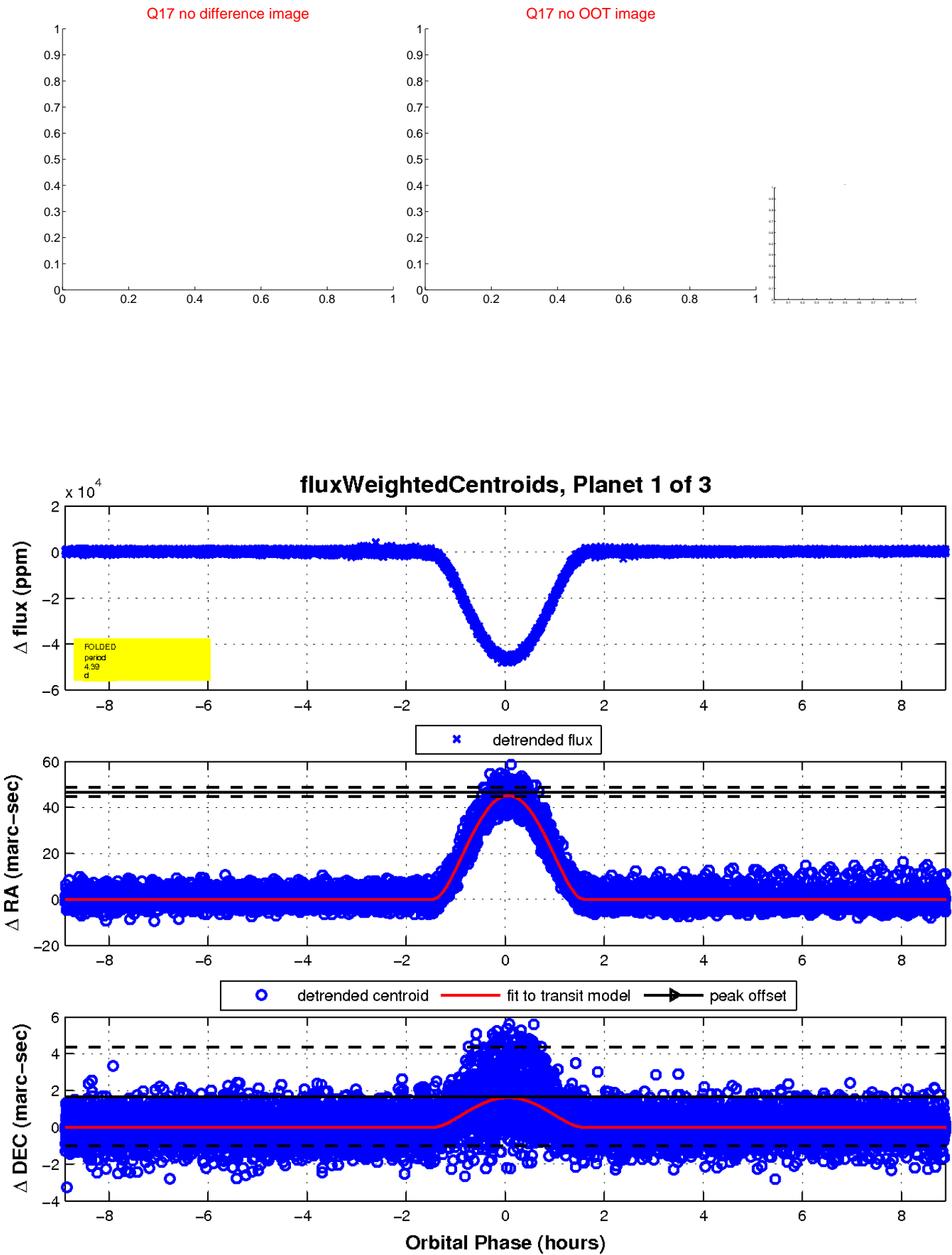
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

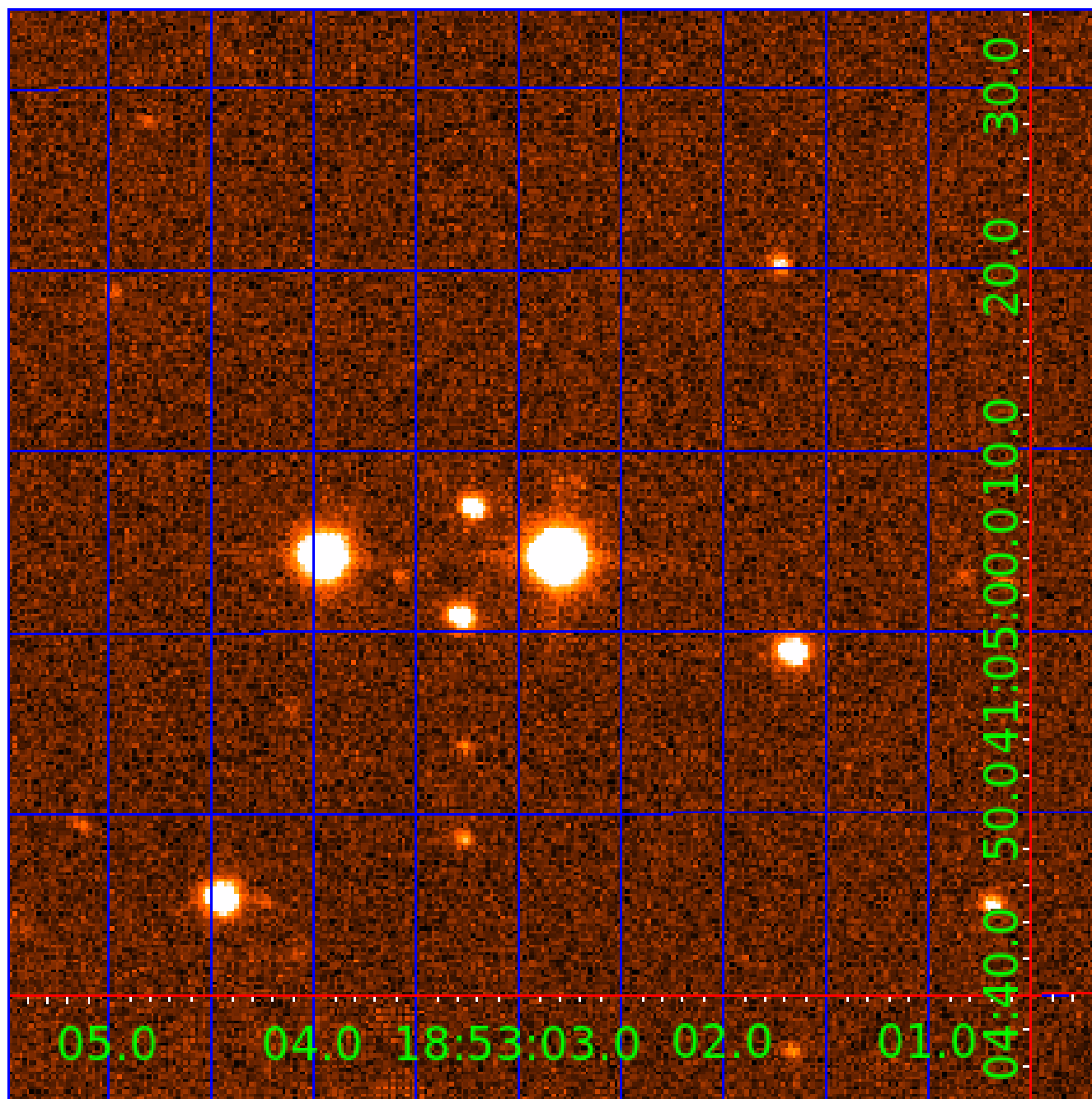


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005768927

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})
005768927-01	OBS	6135.01	4.390514	132.550947	46727.9	2.963	4135.6	3836.6	1.45	6081	44.20	911.63
005768927-02	OBS	No	4.390516	134.746101	1544.2	2.812	139.3	151.2	1.45	6081	10.46	911.63
005768927-03	OBS	No	261.233950	351.840498	1365.1	7.815	11.7	8.0	1.45	6081	10.19	3.92

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005768927-01	OBS	FP	0.02	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
005768927-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
005768927-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—CENT_FEW_DIFFS—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.

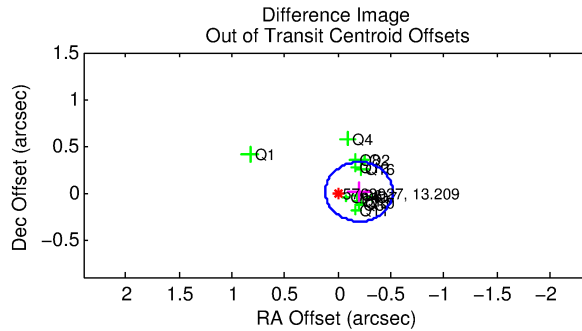
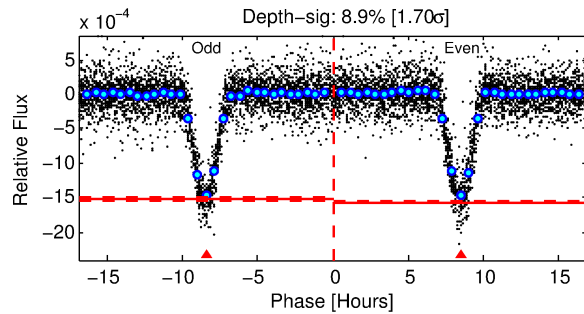
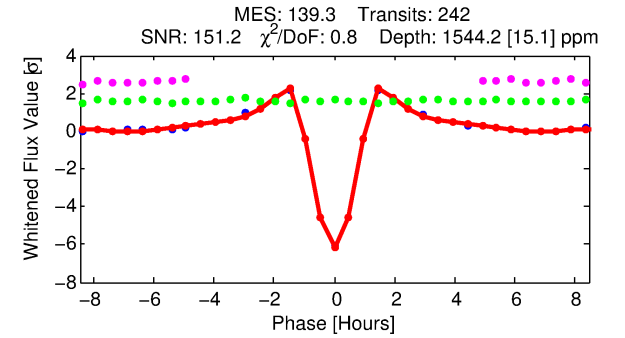
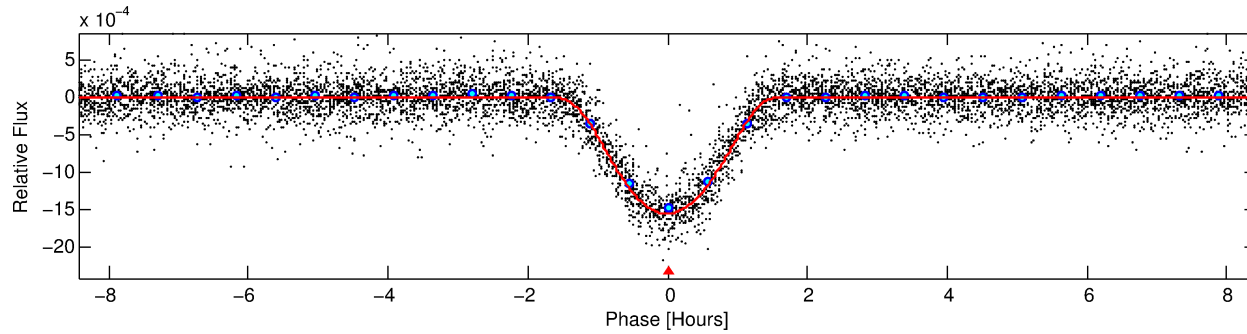
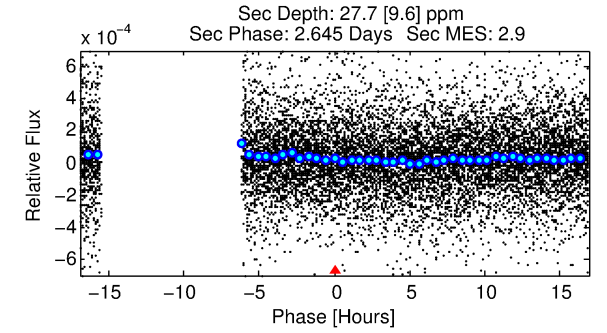
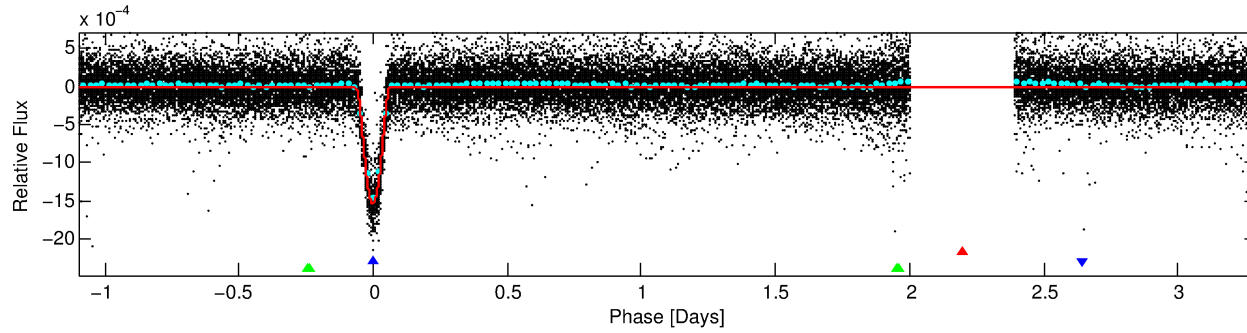
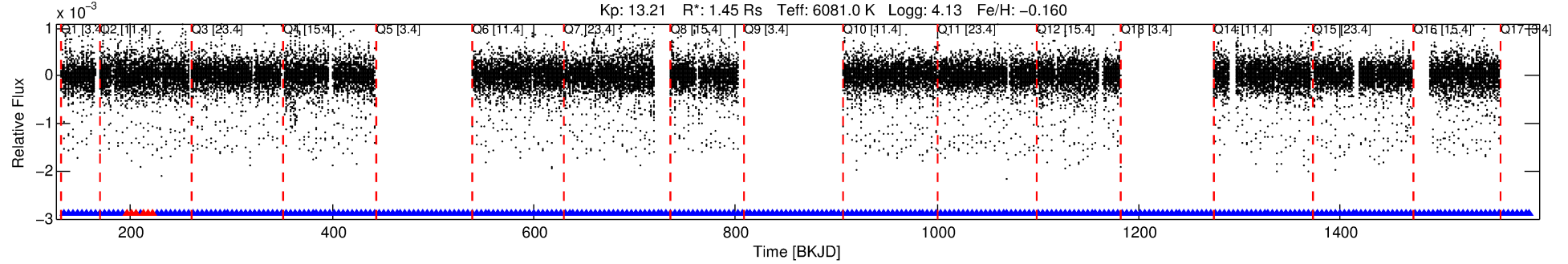
Ephemeris Match Information For 005768927-02

No Significant Match Found

DV One-Page Summary

KIC: 5768927 Candidate: 2 of 3 Period: 4.391 d
KOI: K06135 Corr: No Ephemeris Match

Kp: 13.21 R*: 1.45 Rs Teff: 6081.0 K Logg: 4.13 Fe/H: -0.160



DV Fit Results:

Period = 4.39052 [0.00000] d
Epoch = 134.7461 [0.0003] BKJD
Rp/R* = 0.0659 [0.0127]
a/R* = 4.64 [0.20]
b = 1.00 [0.02]
Seff = 911.63 [458.08]
Teq = 1401 [176] K
Rp = 10.46 [3.90] Re
a = 0.0533 [0.0163] AU
Ag = 0.40 [0.28] [-2.15σ]
Teffp = 1718 [228] K [1.10σ]

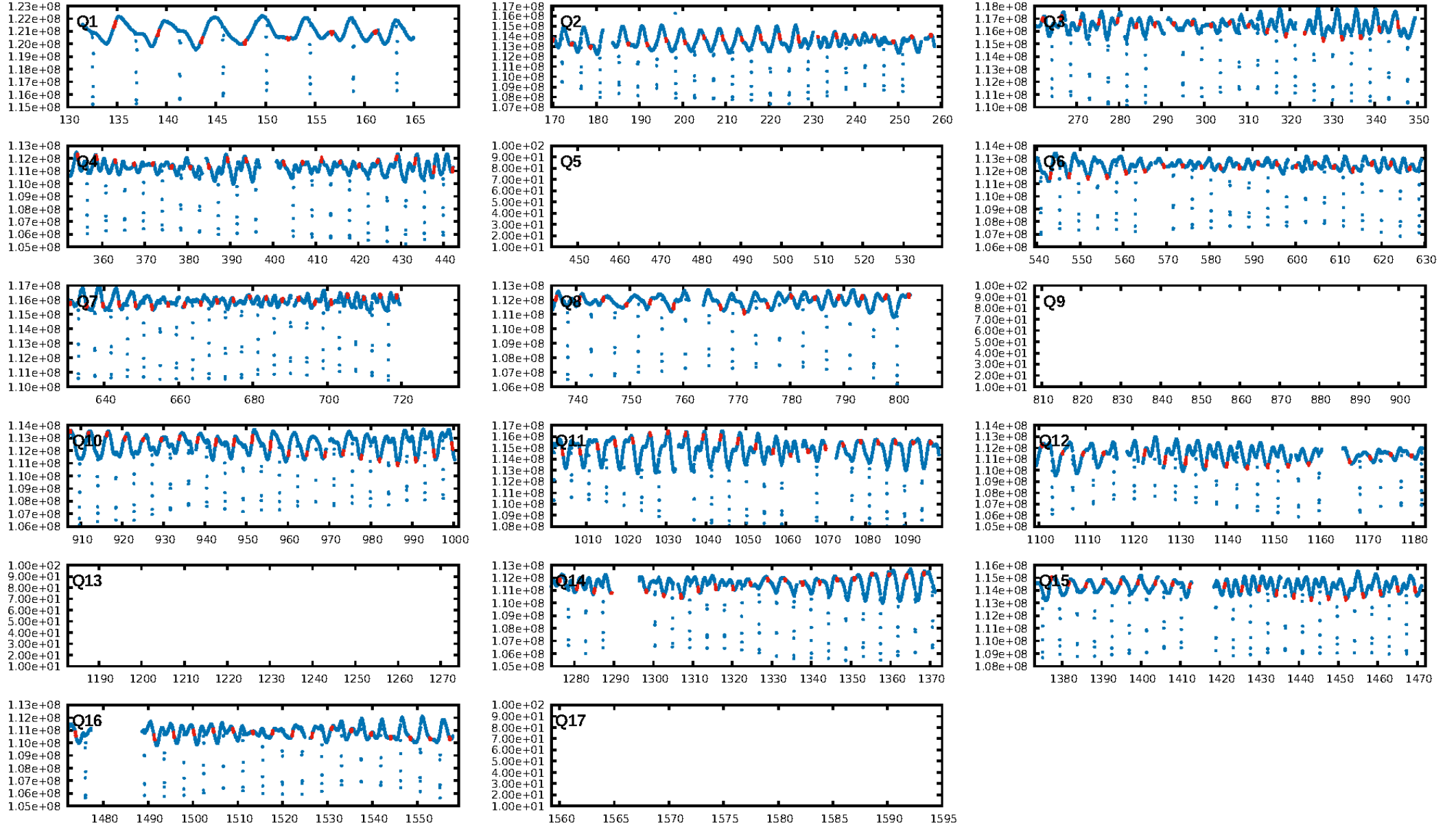
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [742.21σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.97 [229/235]
GhostDiagnostic-chr: 3.789
Centroid-sig: 0.0%
Centroid-so: 0.341 arcsec [4.20σ]
OotOffset-rm: 0.200 arcsec [1.89σ]
KicOffset-rm: 0.262 arcsec [2.59σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 1.00 [13/13]

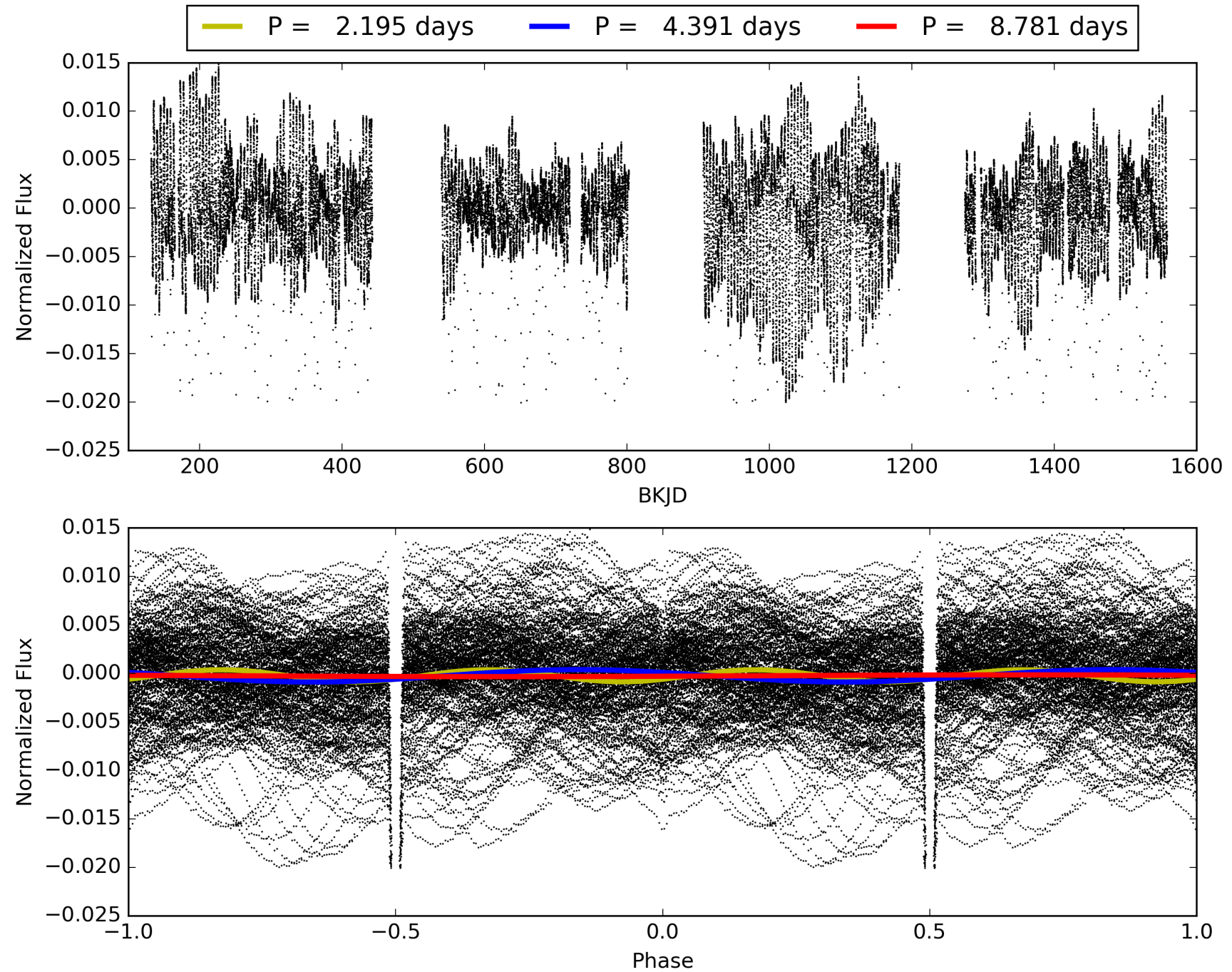
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 07:53:39 Z

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

TCE 005768927-02, PDC Light Curves

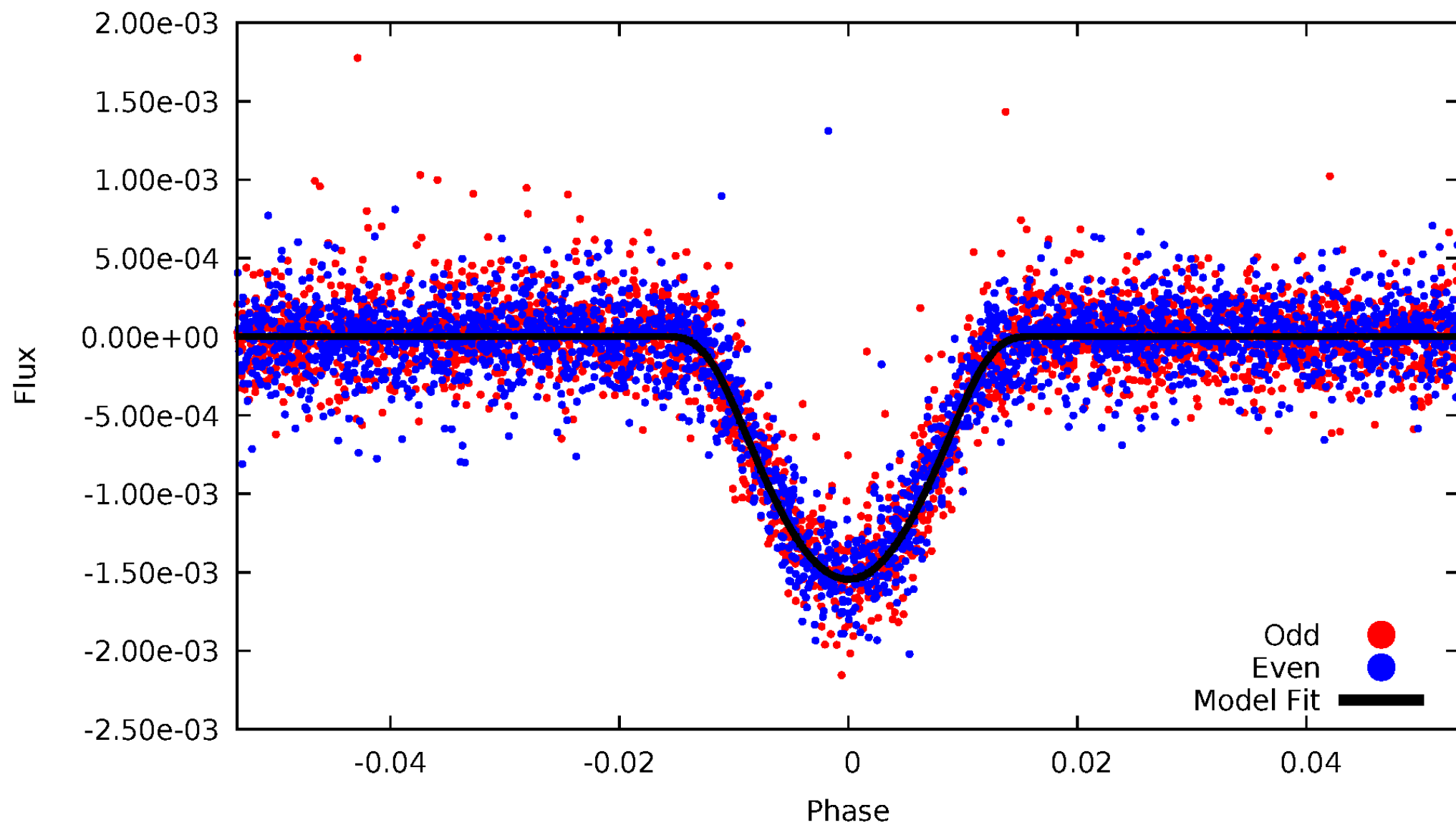


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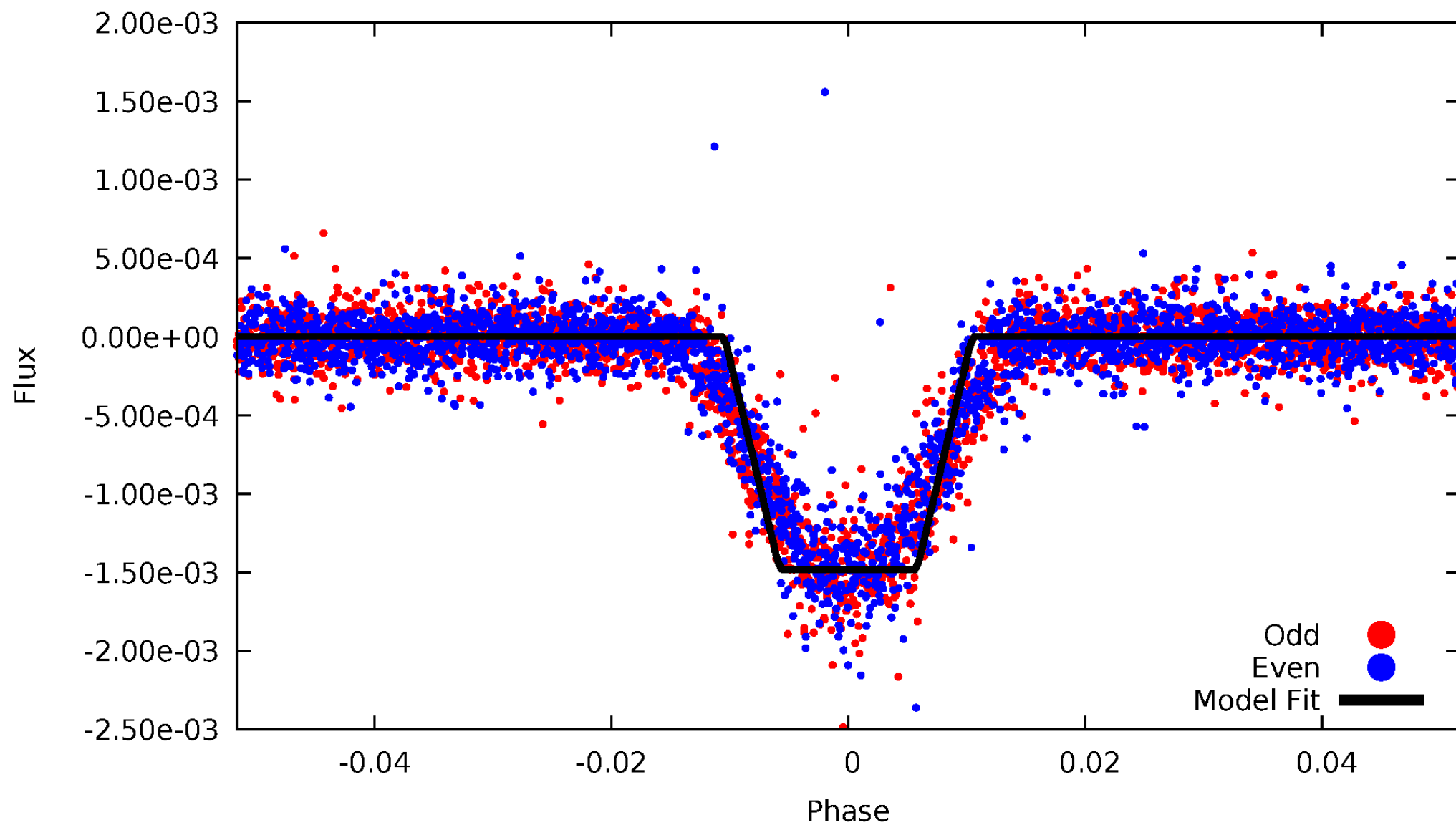
DV Odd/Even

TCE 005768927-02



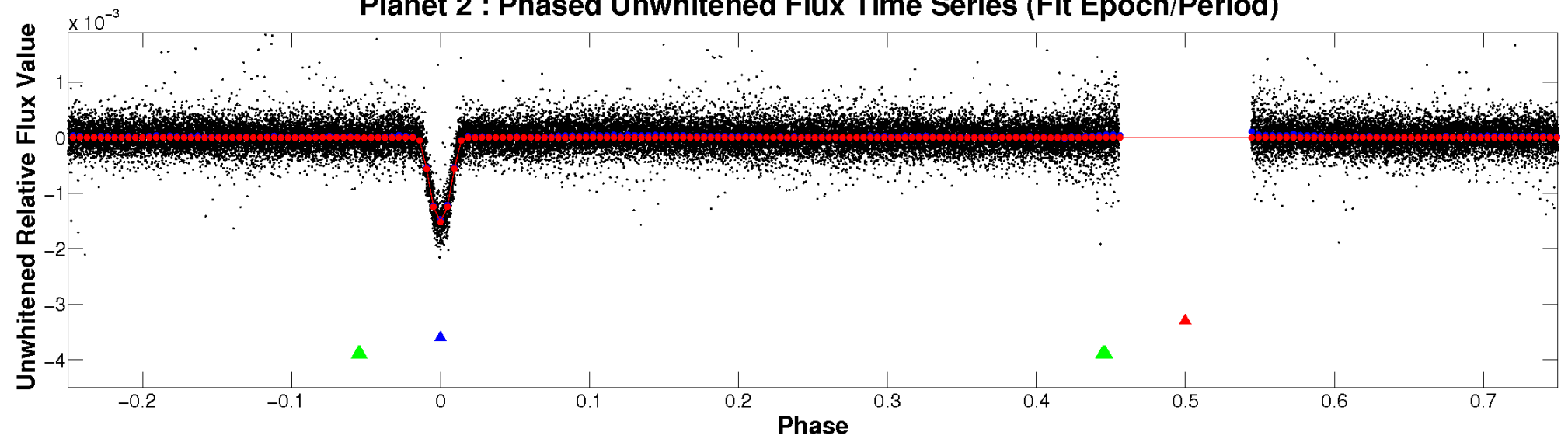
ALT Odd/Even

TCE 005768927-02

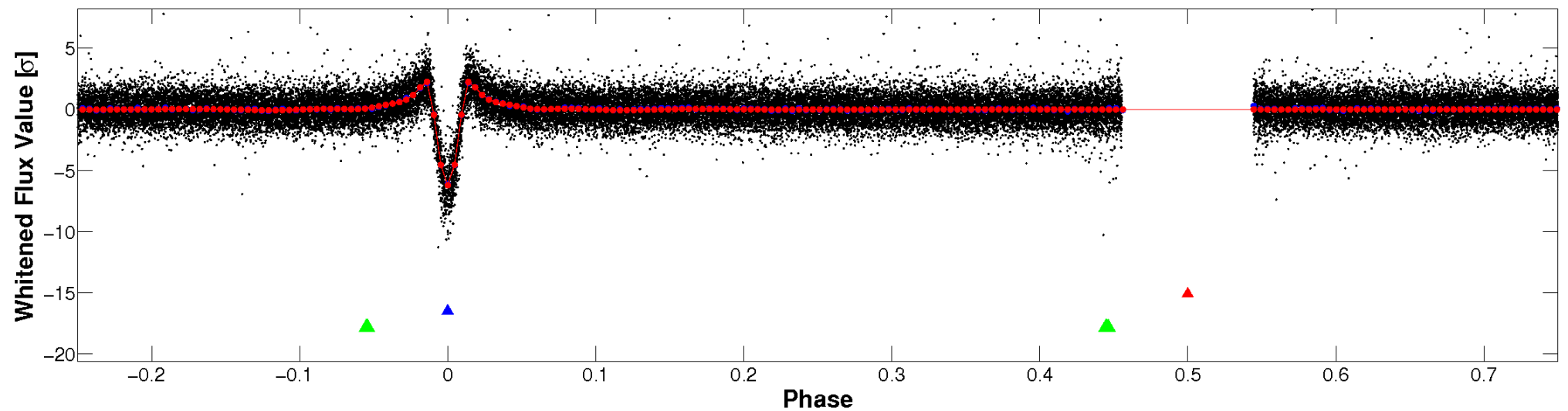


Non-Whitened Vs. Whitened Light Curve

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

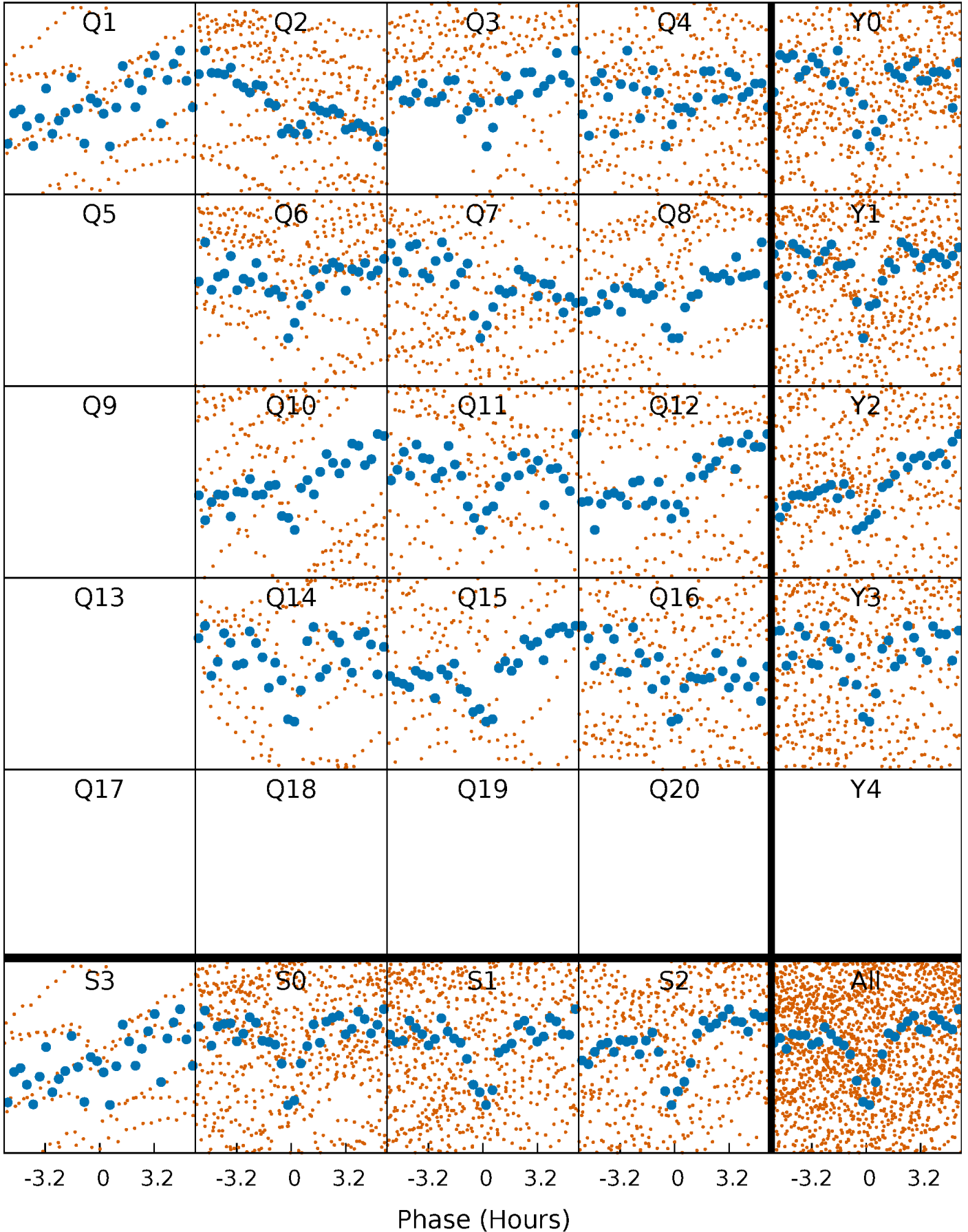


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



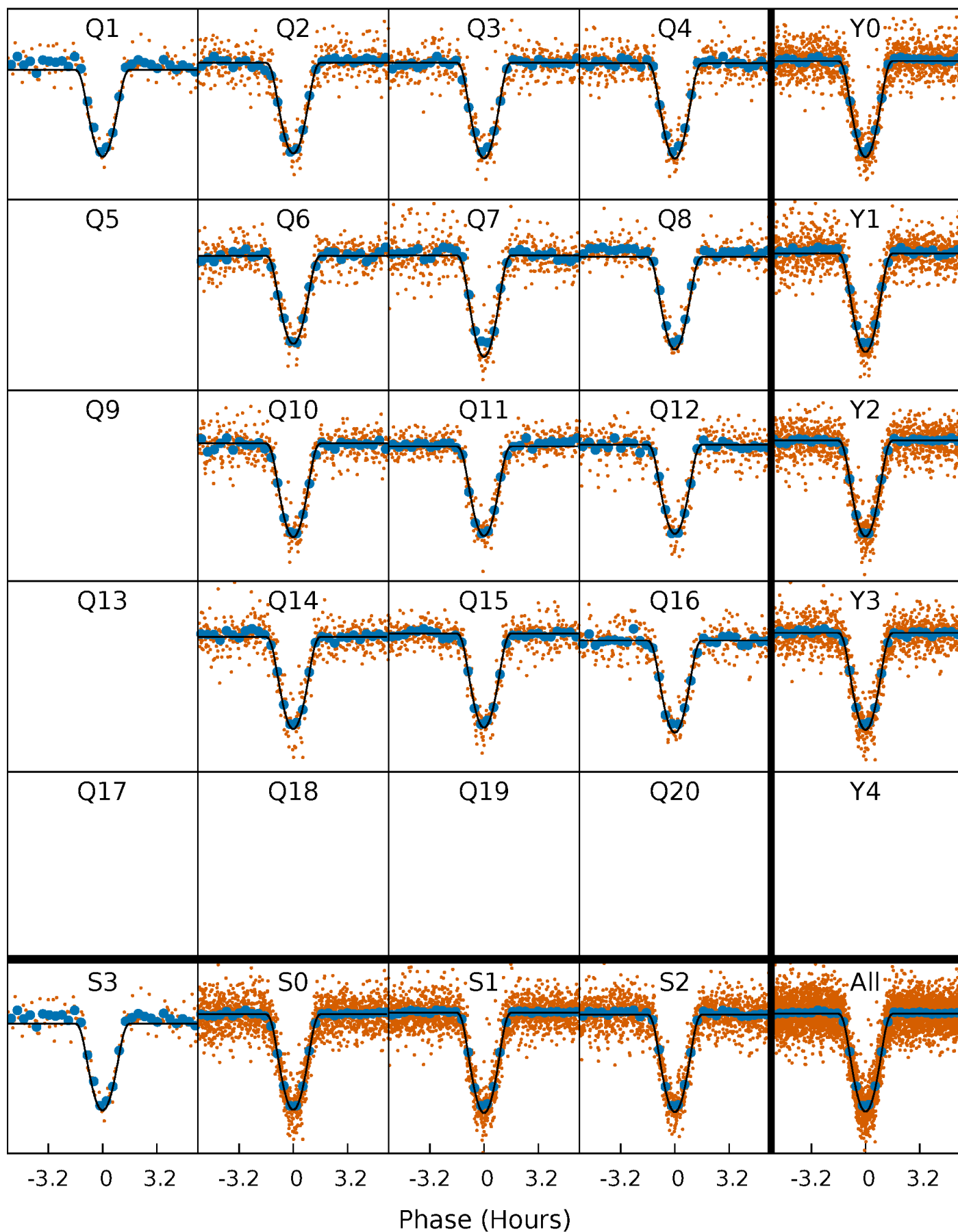
PDC Quarter-Phased Transit Curves

TCE 005768927-02 P= 4.390516 Days $T_0=134.746101$ (BKJD)



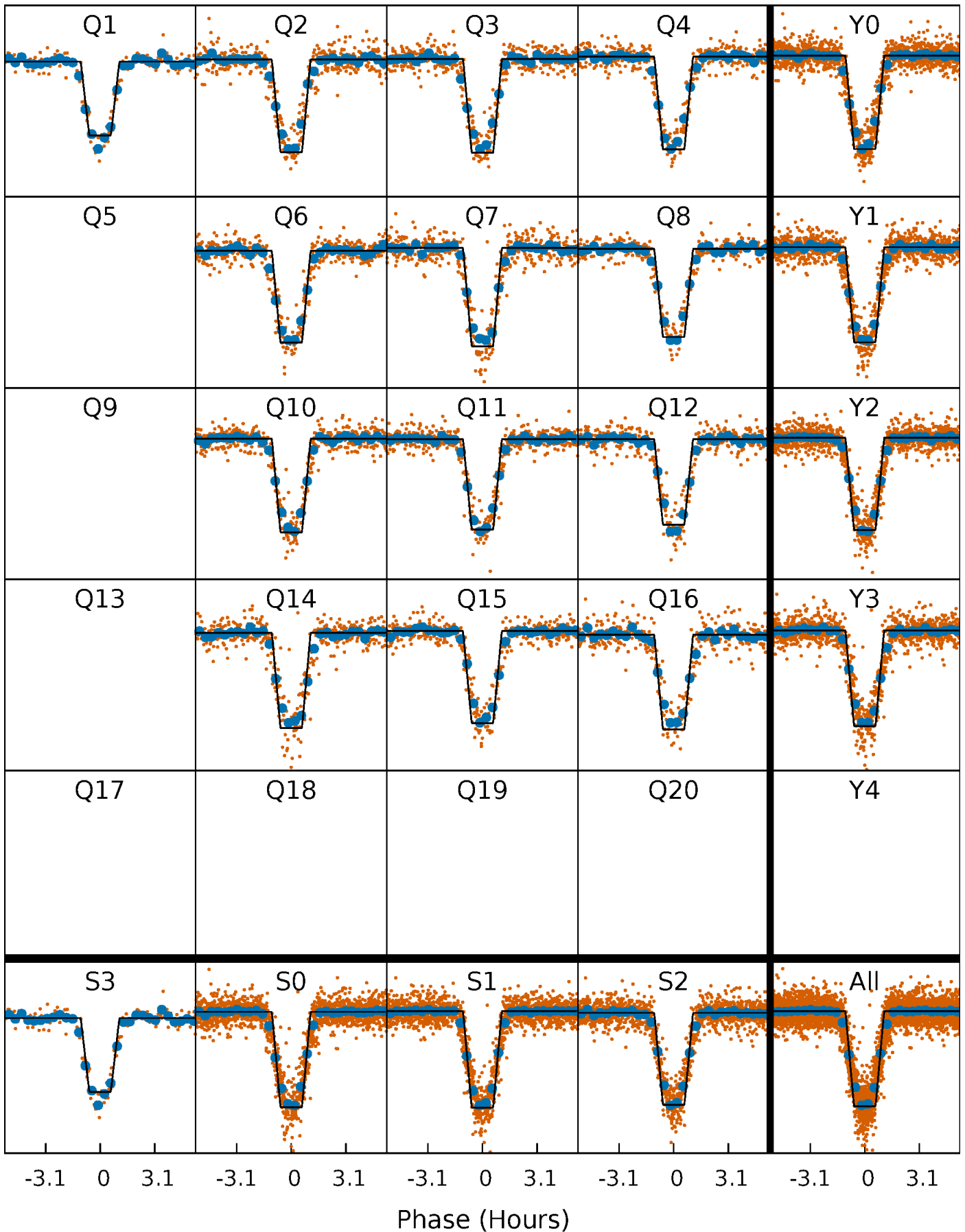
DV Quarter-Phased Transit Curves

TCE 005768927-02 P= 4.390516 Days $T_0=134.746101$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

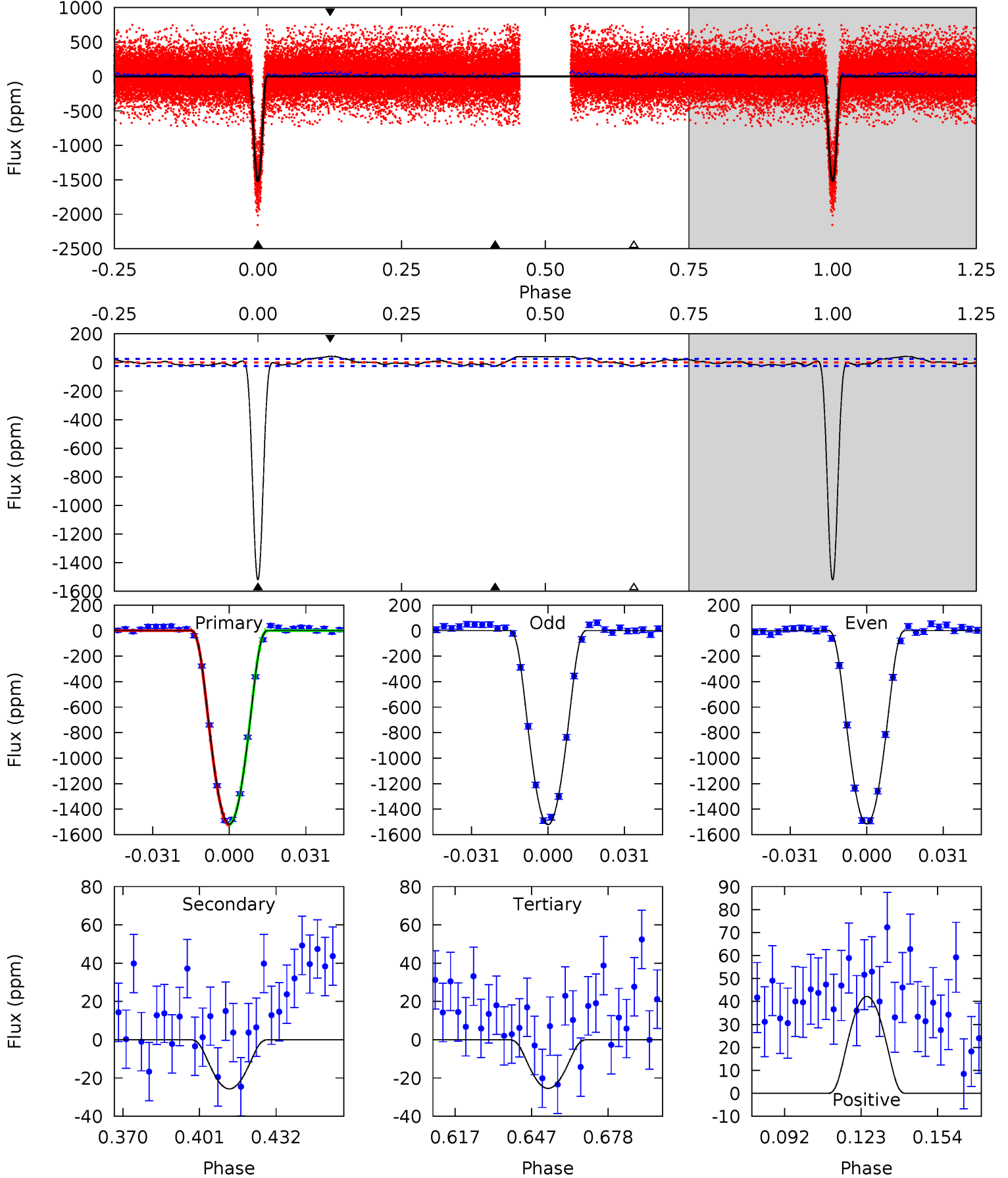
TCE 005768927-02 $P = 4.390499$ Days $T_0 = 134.749157$ (BKJD)



DV Model-Shift Uniqueness Test

005768927-02, P = 4.390516 Days, E = 130.355585 Days

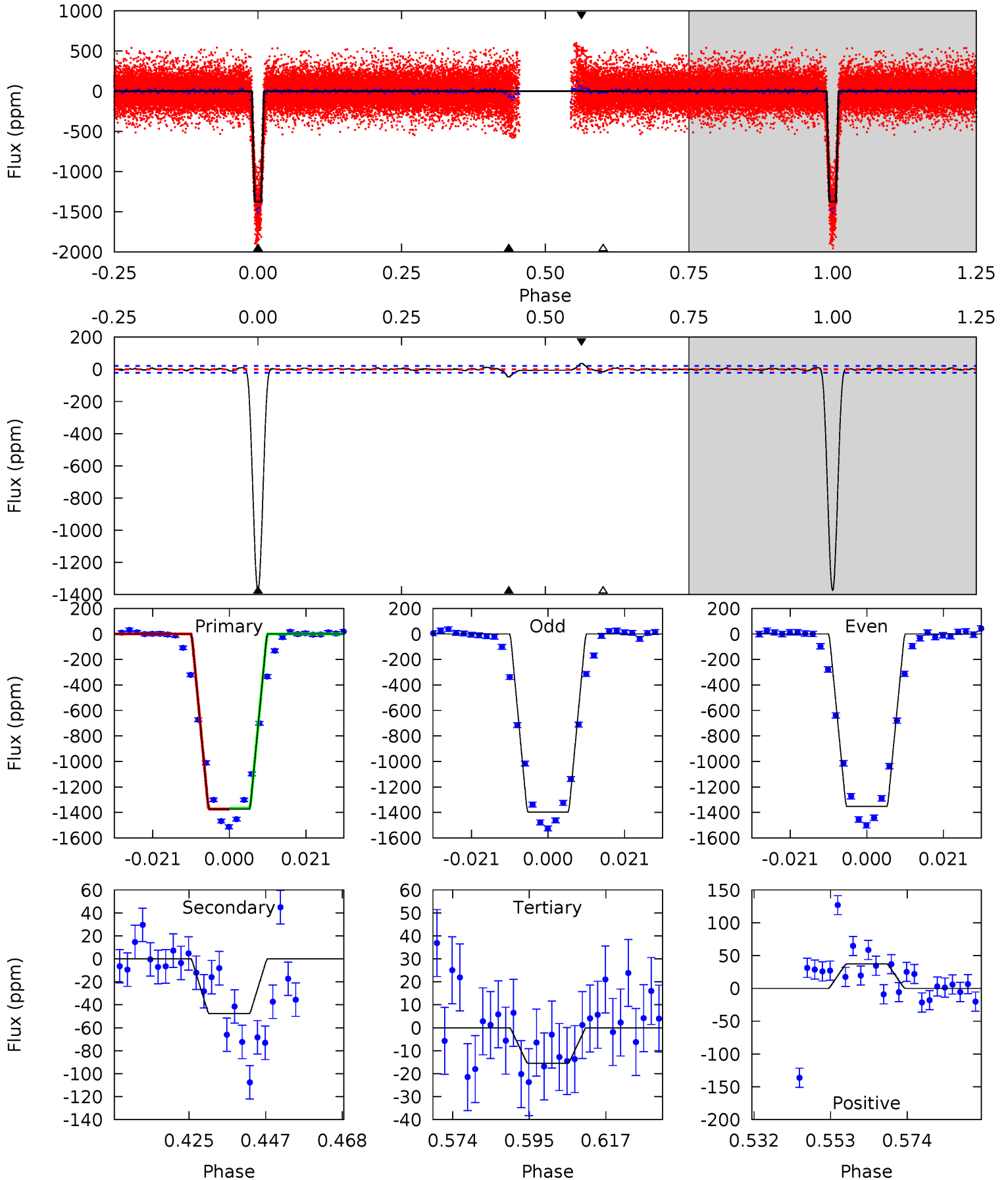
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
291.6	4.93	4.89	8.10	4.81	2.16	3.28	286.7	283.5	0.05	-3.16	0.56	1.00	0.03	1.01



Alt Model-Shift Uniqueness Test

005768927-02, P = 4.390499 Days, E = 130.358658 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
315.3	10.9	3.54	8.56	4.88	2.30	1.29	311.8	306.8	7.39	2.38	4.94	1.00	0.03	0.77



Stellar Parameters For KIC 005768927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6081^{+165}_{-183}	$4.133^{+0.286}_{-0.154}$	$-0.160^{+0.300}_{-0.300}$	$1.454^{+0.422}_{-0.464}$	$1.046^{+0.163}_{-0.148}$	$0.480^{+0.793}_{-0.228}$
	+3%/-3%	+7%/-4%	+188%/-188%	+29%/-32%	+16%/-14%	+165%/-48%
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 005768927-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-26 ± 5	$9.97^{+2.81}_{-2.42}$	1925^{+166}_{-160}	2146^{+332}_{-4239}	$0.395^{+0.322}_{-0.159}$
Alt.	-48 ± 4	$5.91^{+2.24}_{-2.05}$	1938^{+137}_{-170}	3097^{+448}_{-300}	$2.168^{+2.834}_{-1.043}$

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

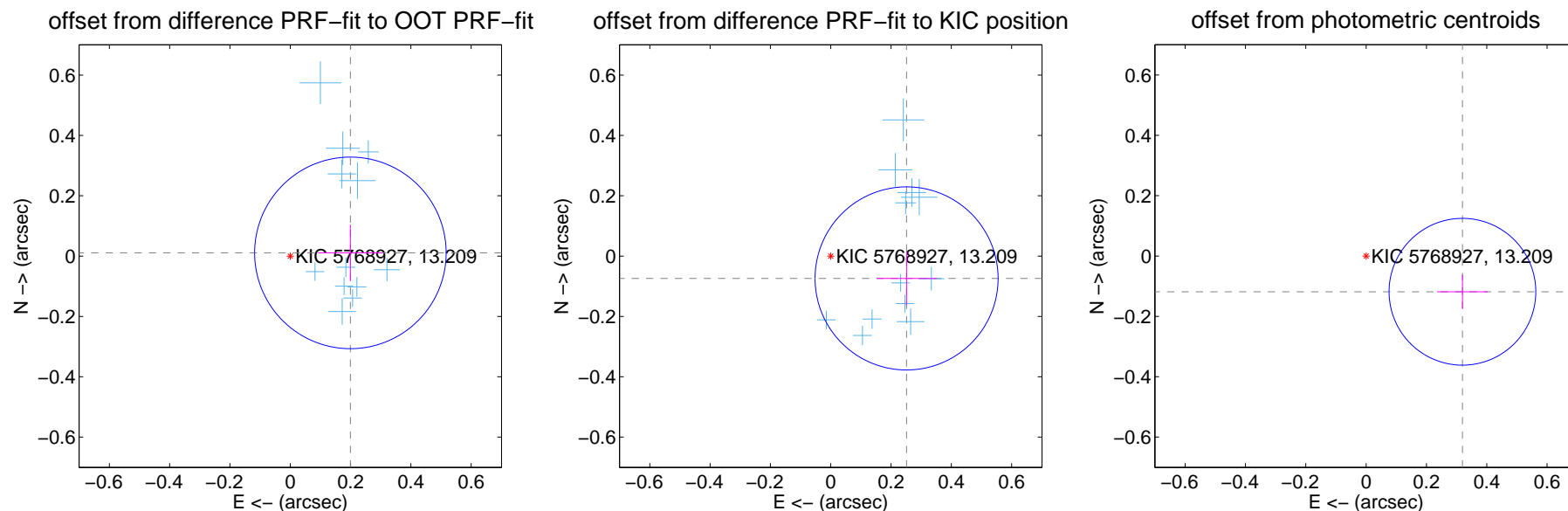
DV Centroid Data

Supplemental centroid analysis for 005768927-02. Kepler magnitude: 13.21. Transit SNR 151.17

There are 13 quarters with good PRF difference image offsets

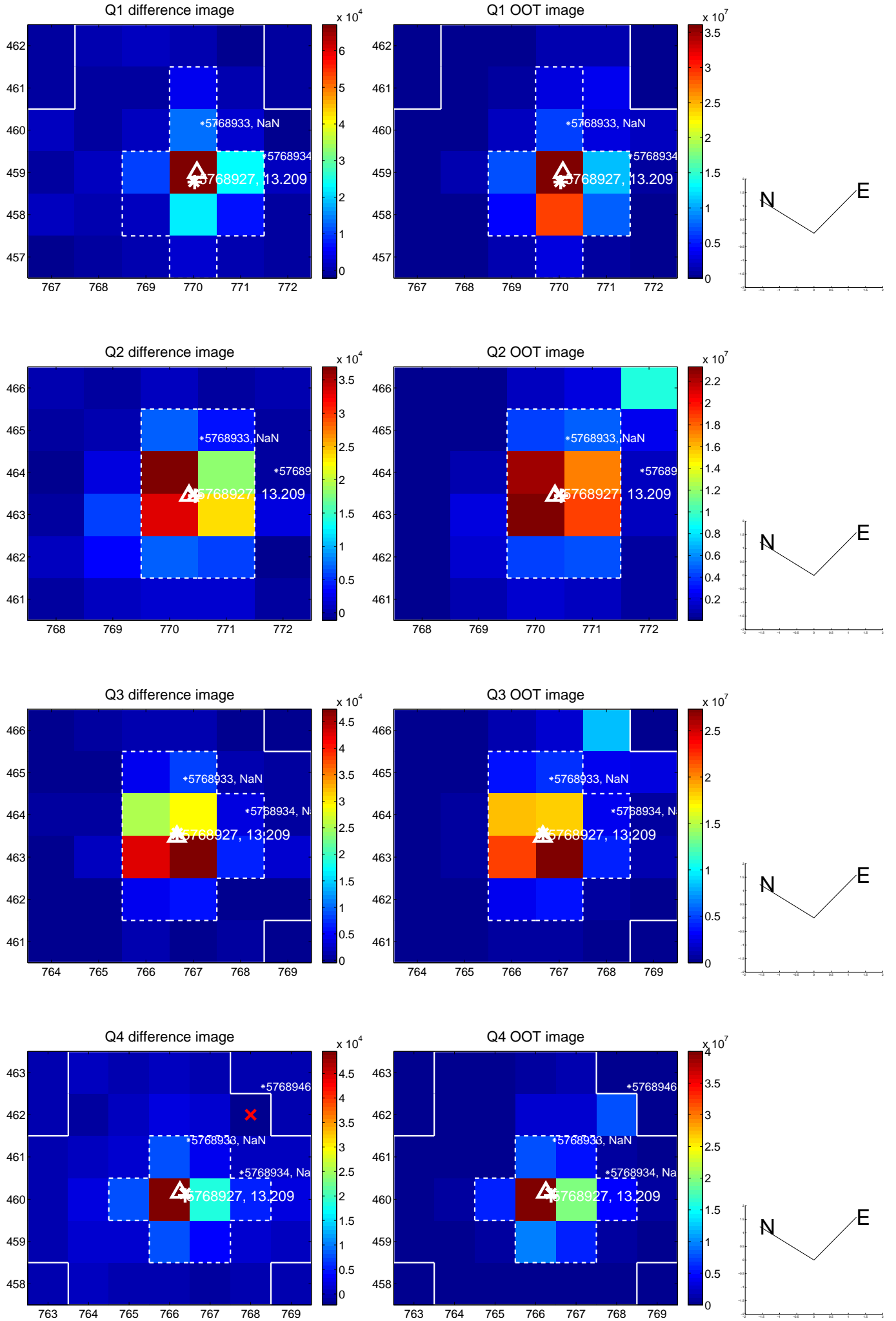
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.200 ± 0.106	1.89	-0.199 ± 0.107	0.011 ± 0.093
PRF-fit source offset from KIC position	0.262 ± 0.101	2.59	-0.252 ± 0.099	-0.074 ± 0.089
photometric centroid source offset	0.34 ± 0.08	4.20	-0.32 ± 0.08	-0.12 ± 0.06

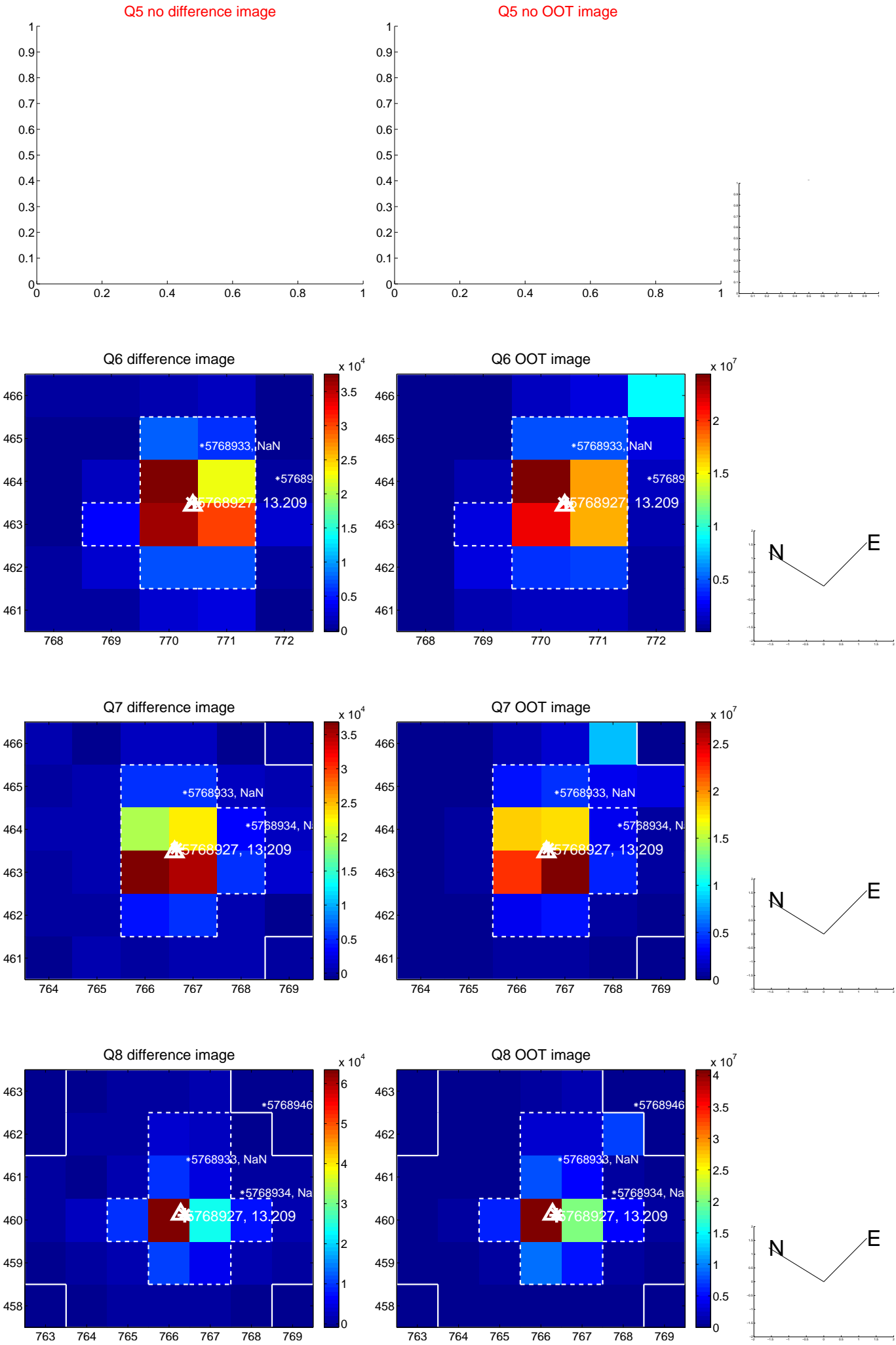


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

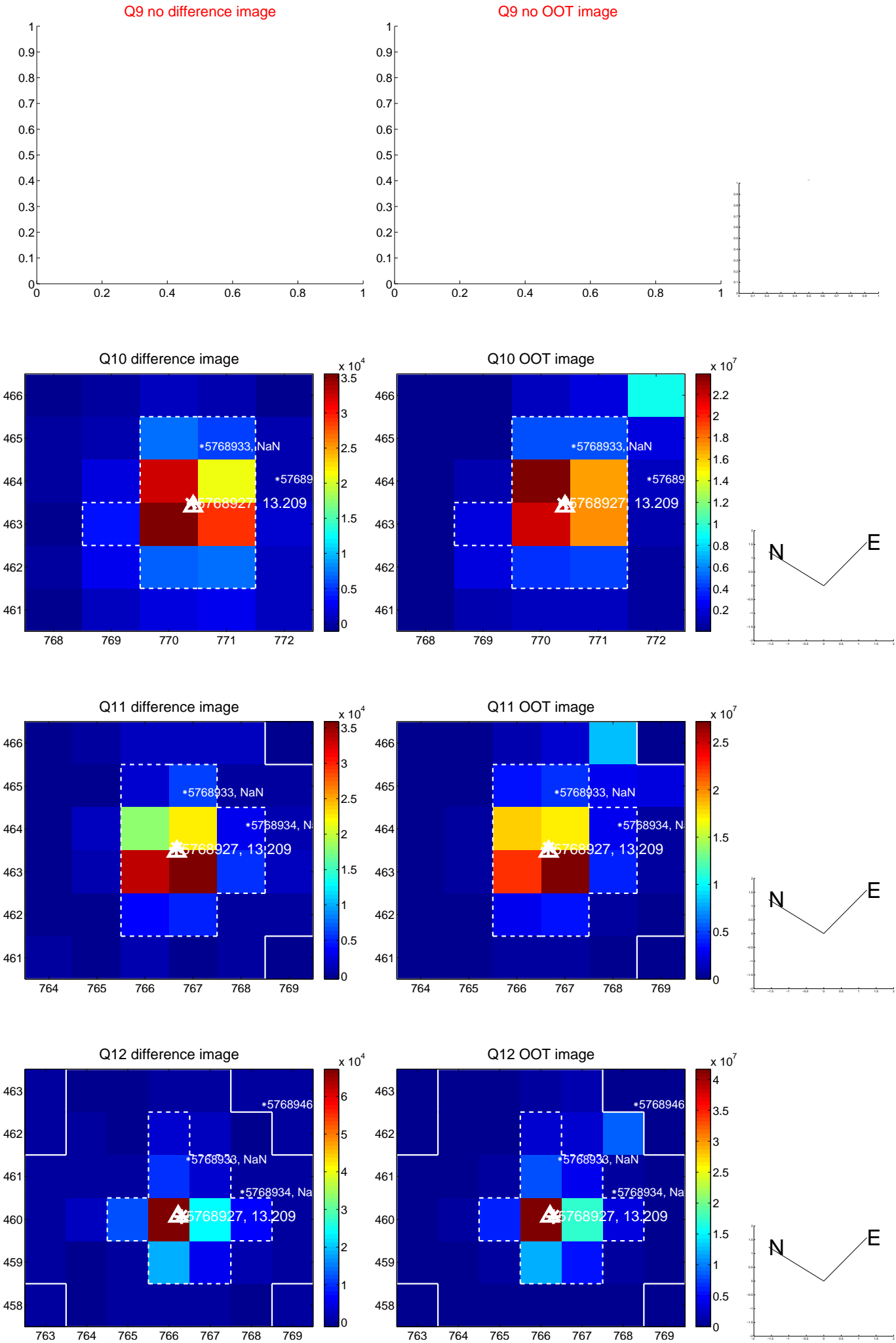
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



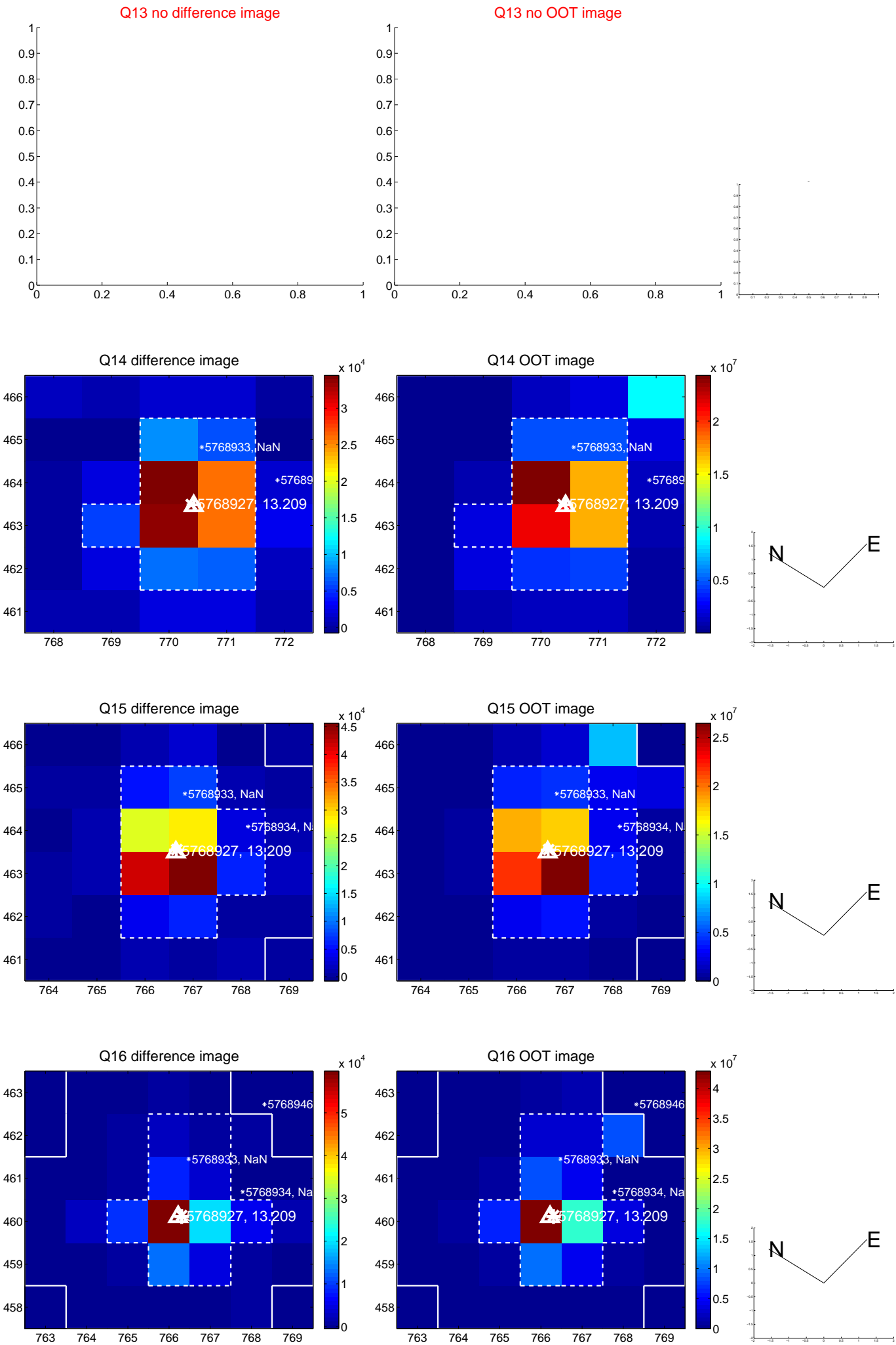
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



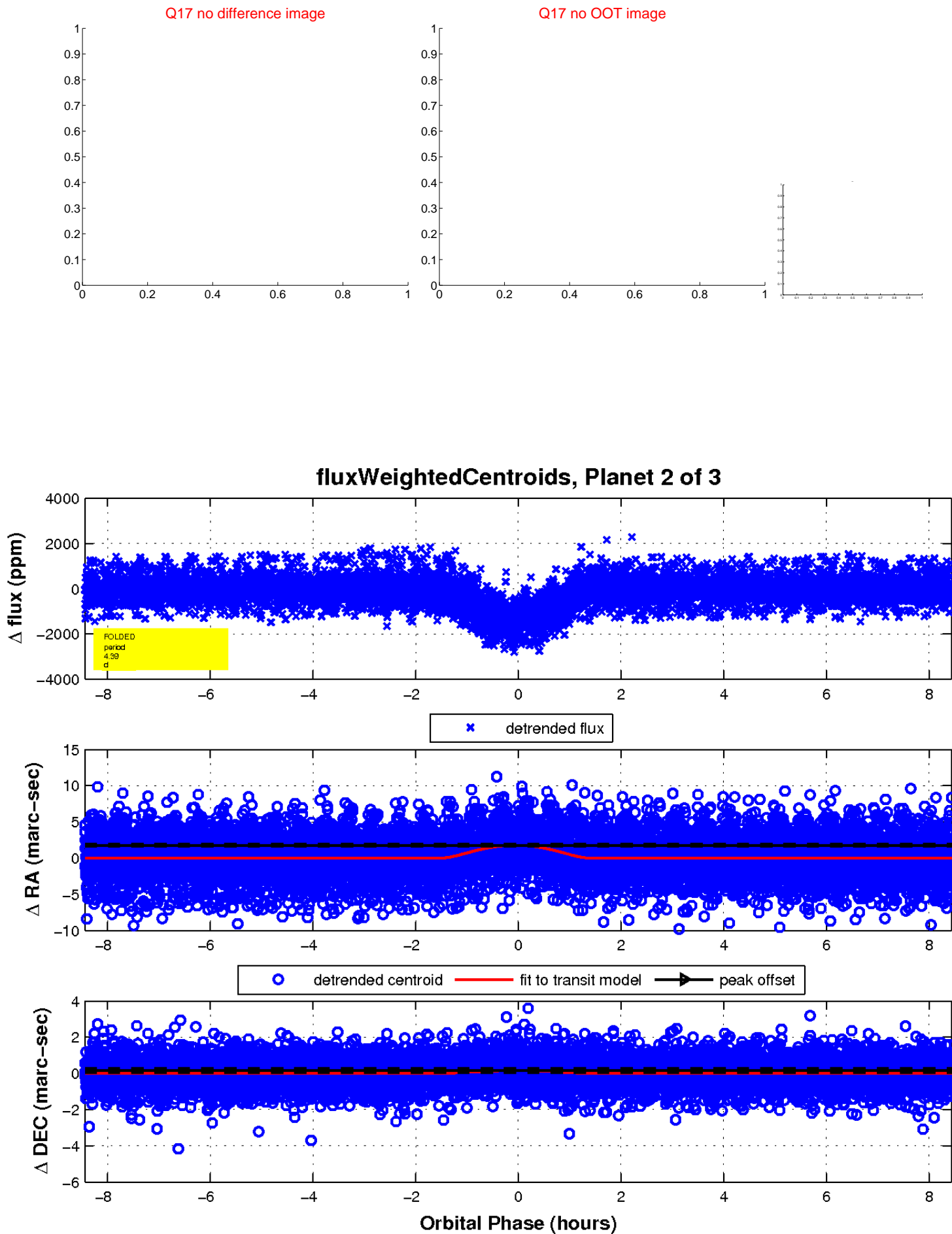
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

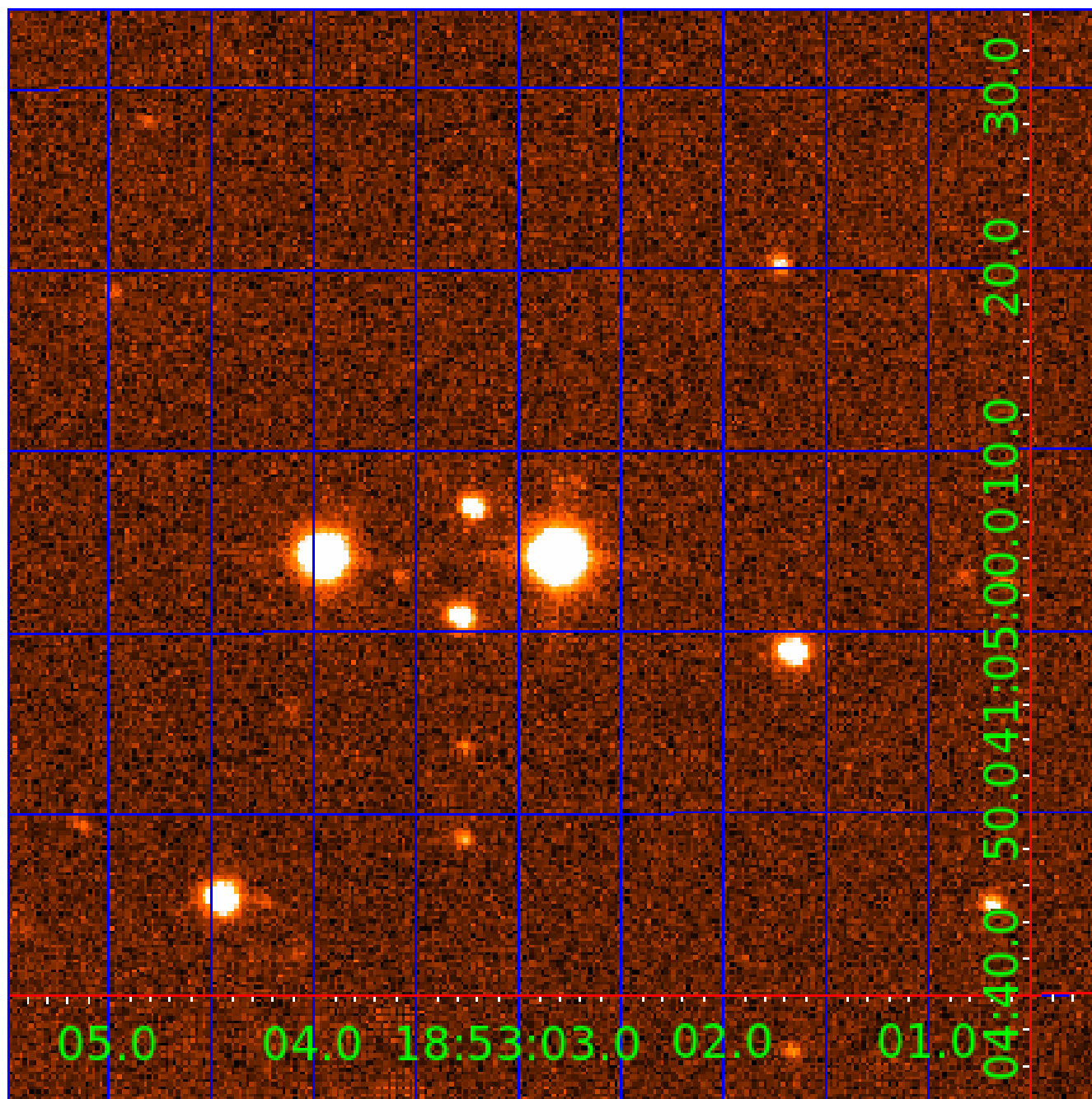


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005768927

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})
005768927-01	OBS	6135.01	4.390514	132.550947	46727.9	2.963	4135.6	3836.6	1.45	6081	44.20	911.63
005768927-02	OBS	No	4.390516	134.746101	1544.2	2.812	139.3	151.2	1.45	6081	10.46	911.63
005768927-03	OBS	No	261.233950	351.840498	1365.1	7.815	11.7	8.0	1.45	6081	10.19	3.92

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005768927-01	OBS	FP	0.02	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
005768927-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
005768927-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—CENT_FEW_DIFFS—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.

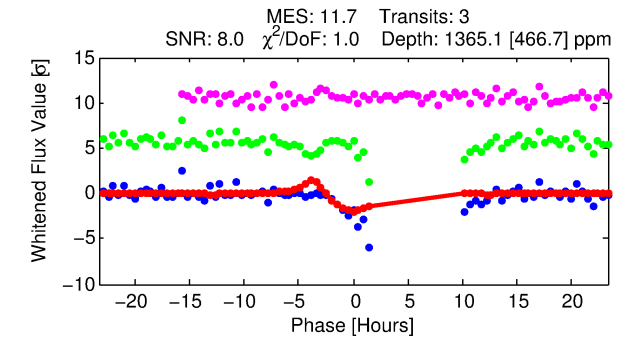
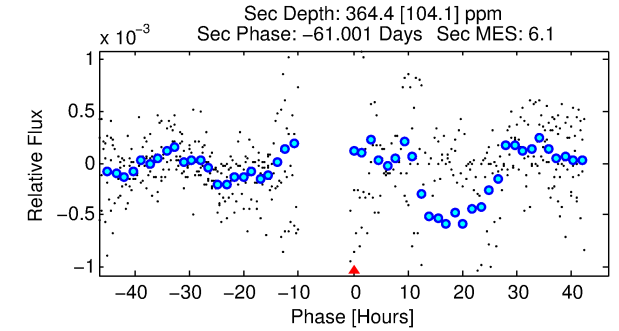
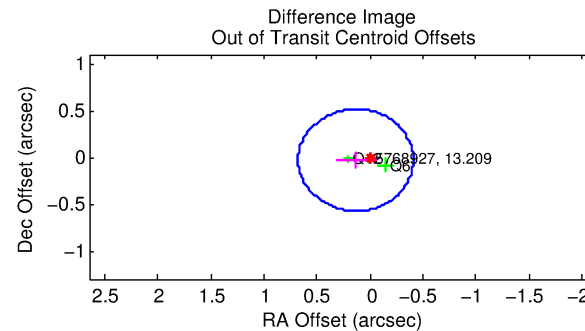
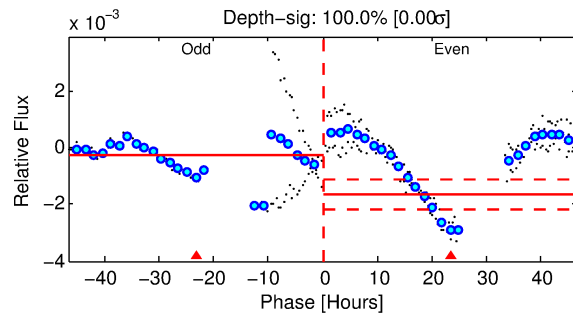
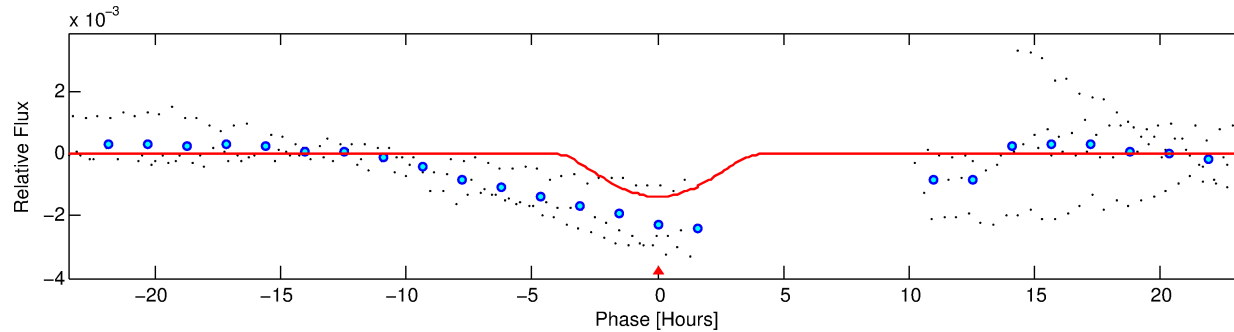
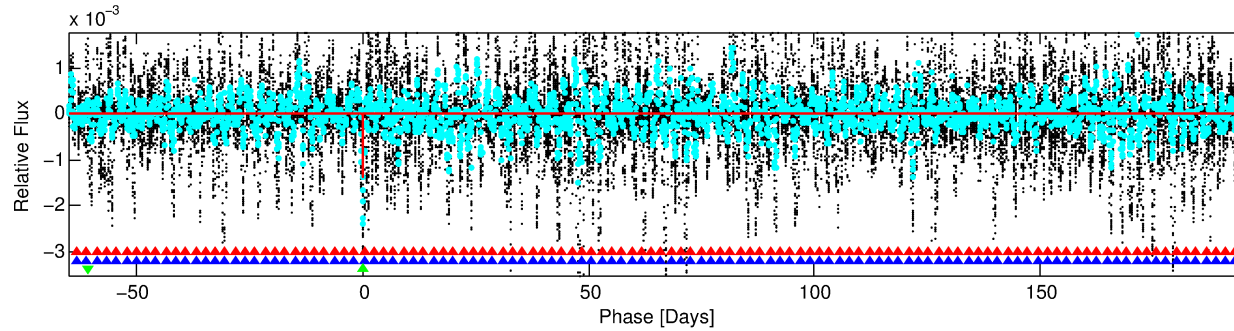
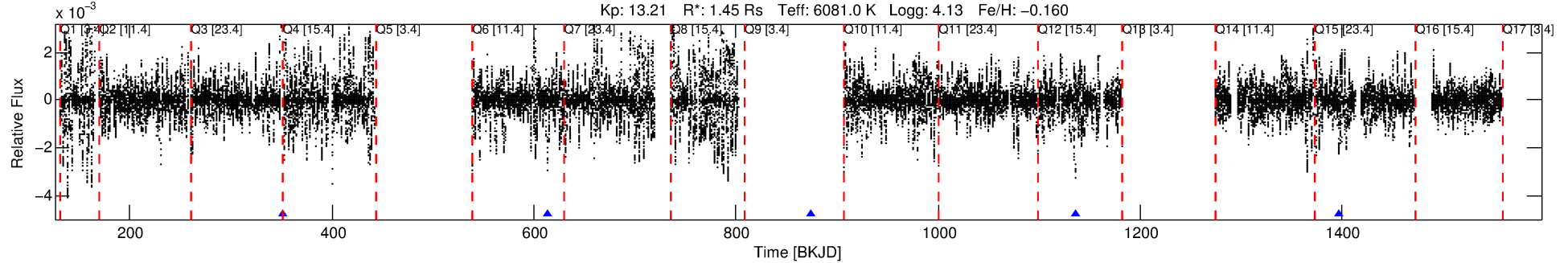
Ephemeris Match Information For 005768927-03

No Significant Match Found

DV One-Page Summary

KIC: 5768927 Candidate: 3 of 3 Period: 261.234 d
KOI: K06135 Corr: No Ephemeris Match

Kp: 13.21 R*: 1.45 Rs Teff: 6081.0 K Logg: 4.13 Fe/H: -0.160



DV Fit Results:

Period = 261.23395 [0.00667] d
Epoch = 351.8405 [0.0255] BKJD
Rp/R* = 0.0642 [0.1318]
a/R* = 93.02 [42.92]
b = 1.00 [0.18]
Seff = 3.92 [1.97]
Teq = 359 [45] K
Rp = 10.19 [21.16] Re
a = 0.8124 [0.2483] AU
Ag = 1273.89 [5276.50] [0.24σ]
Teffp = 3315 [3410] K [0.87σ]

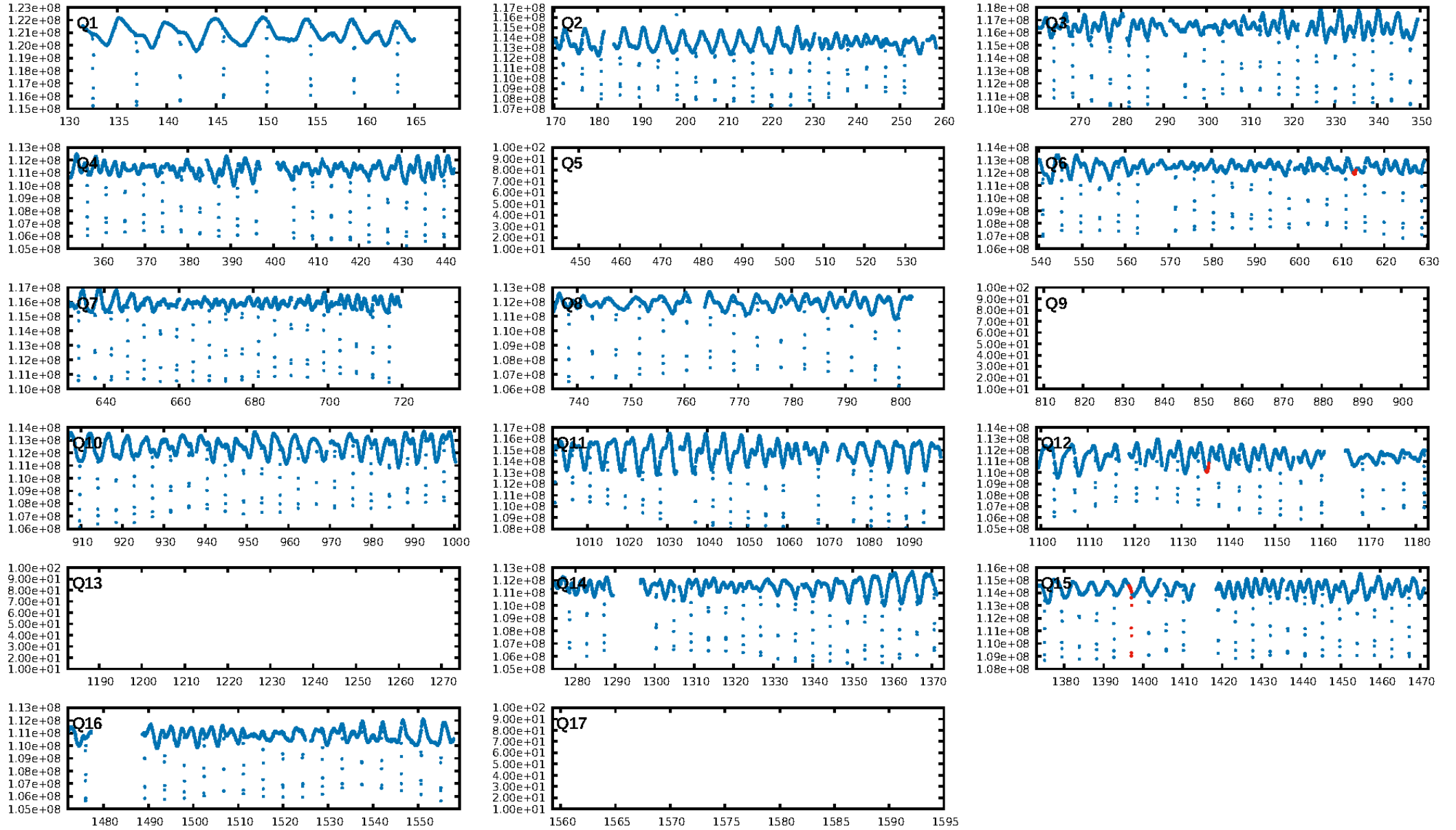
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [742.21σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 13.8%
ModelChiSquareGof-sig: 99.8%
Bootstrap-pfa: 1.66e-14
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.06854
Centroid-sig: 19.9%
Centroid-so: 0.915 arcsec [1.02σ]
OotOffset-rm: 0.138 arcsec [0.76σ]
KicOffset-rm: 0.144 arcsec [1.25σ]
OotOffset-st: 1/0/1/0 [2]
KicOffset-st: 1/0/1/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 0.00 [0/2]

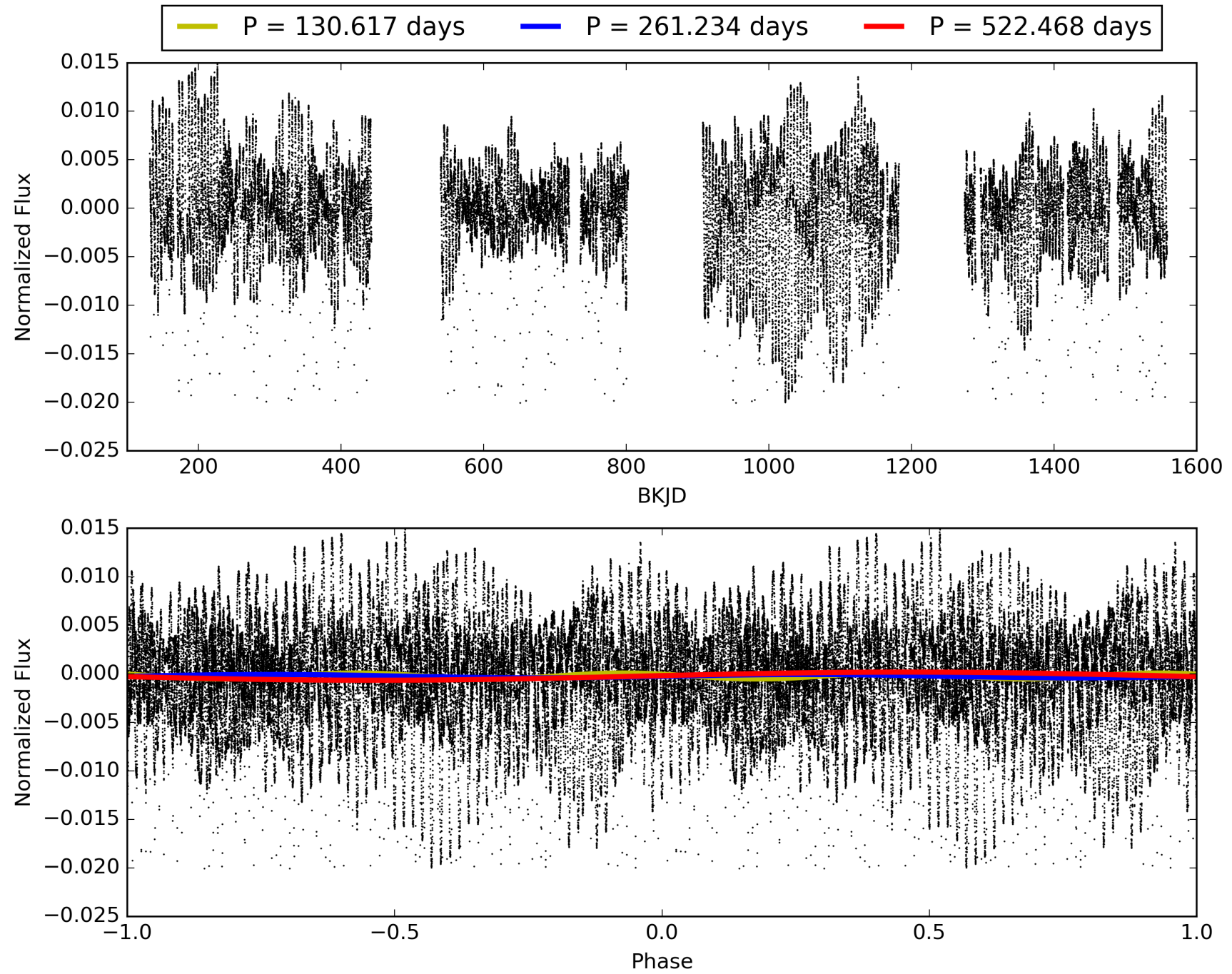
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 07:53:47 Z

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

TCE 005768927-03, PDC Light Curves

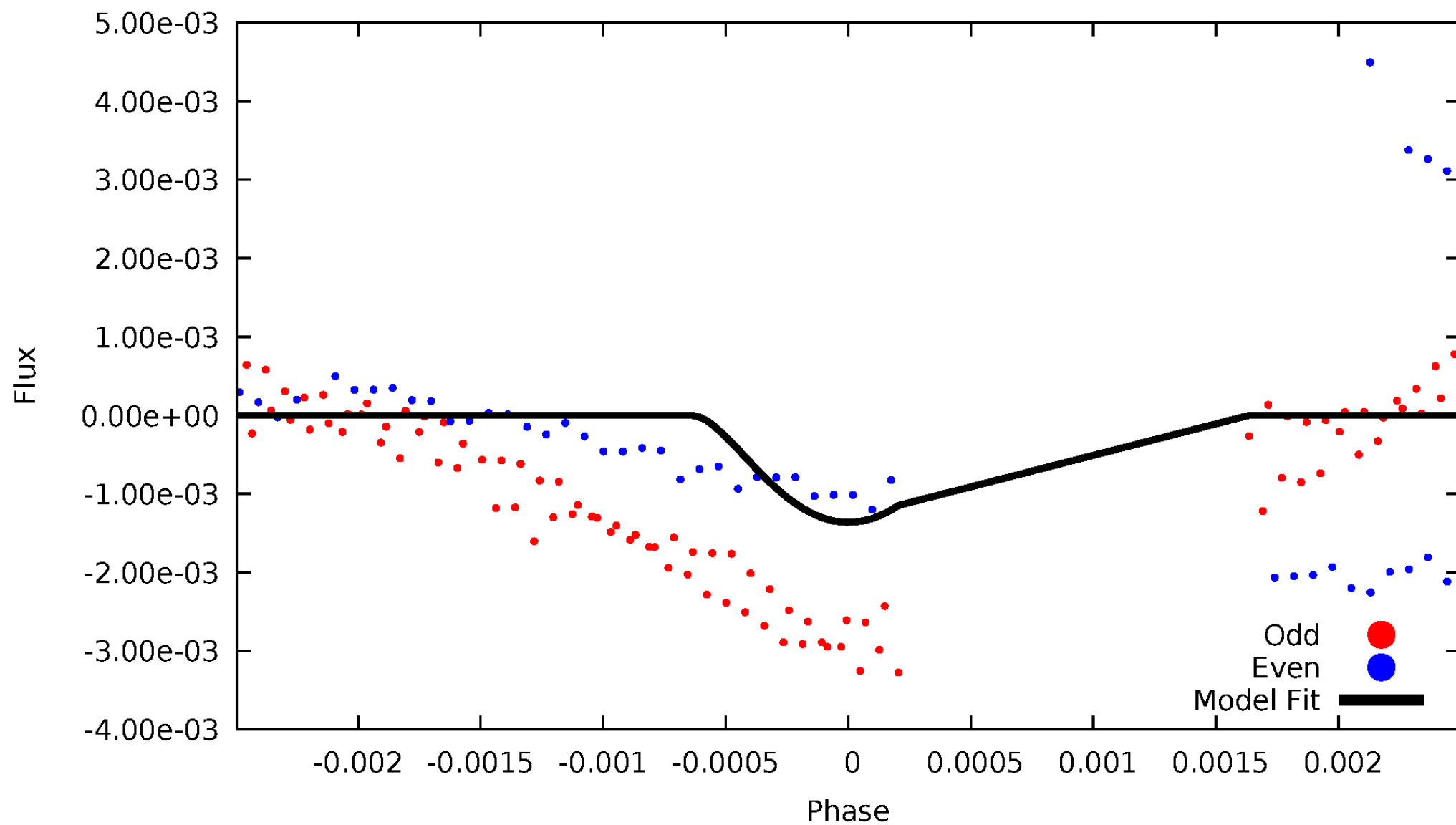


TCE 005768927-03



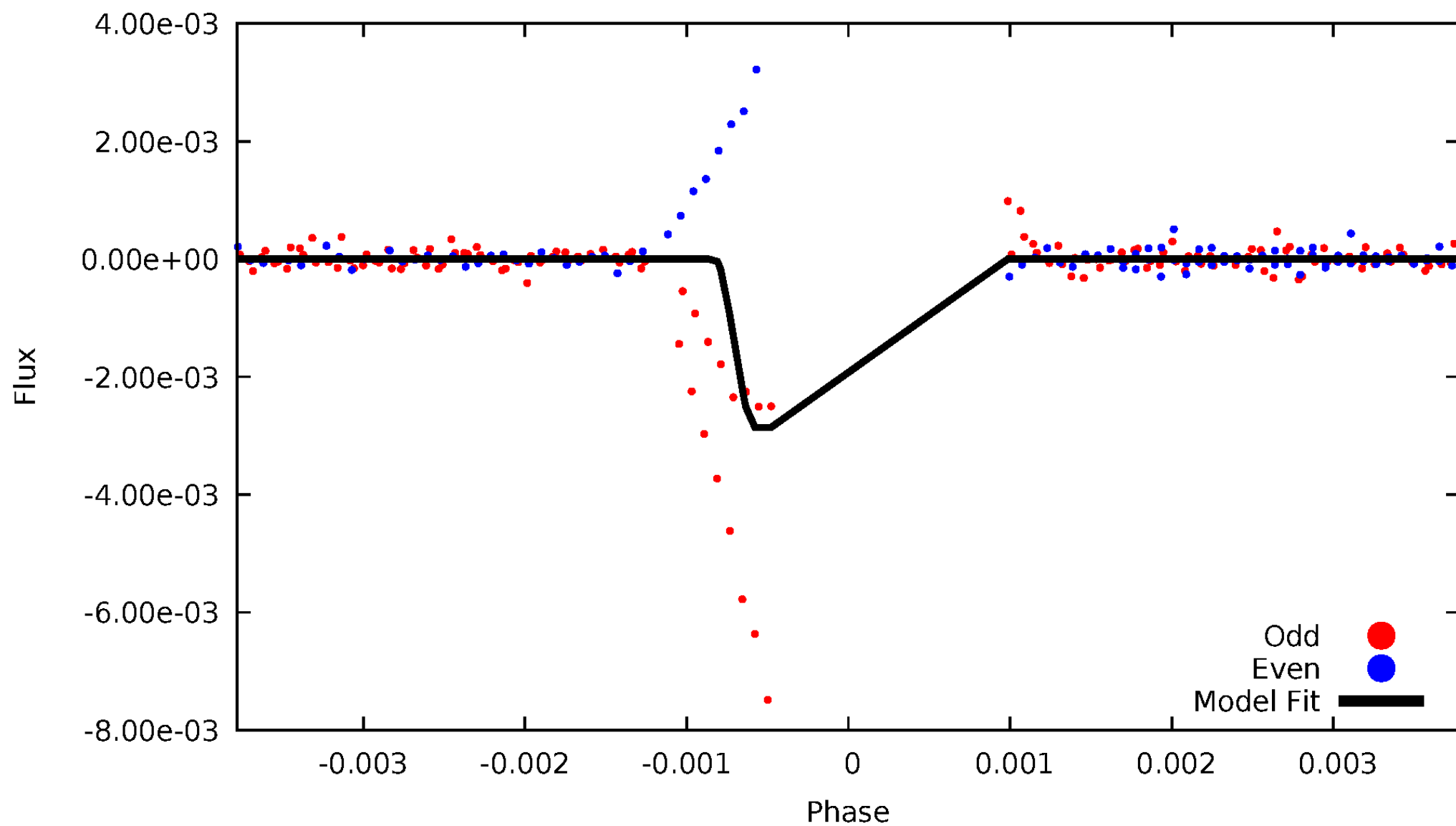
DV Odd/Even

TCE 005768927-03



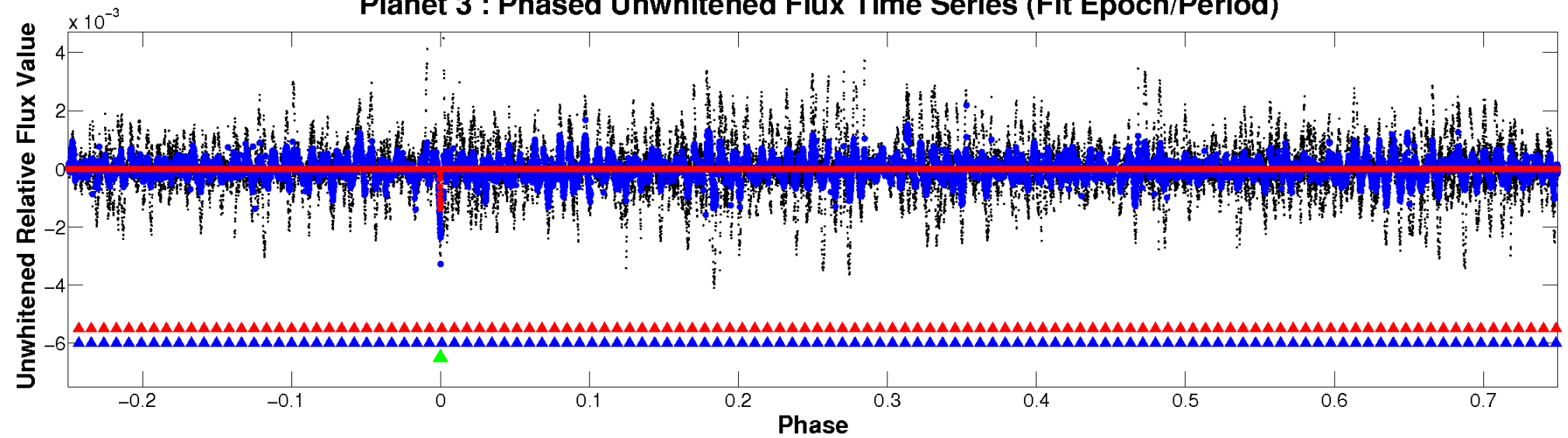
ALT Odd/Even

TCE 005768927-03

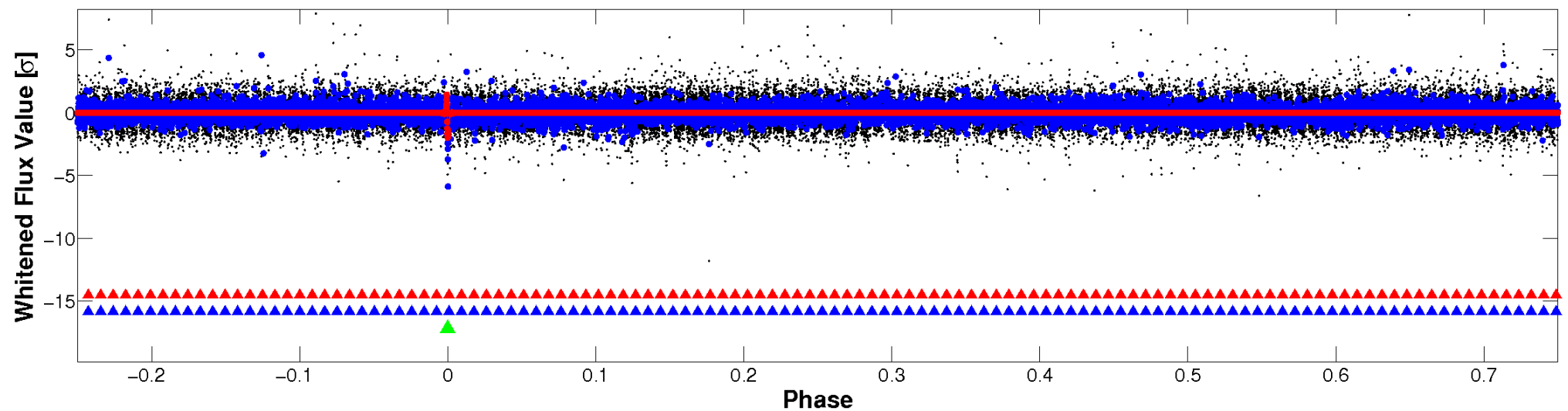


Non-Whitened Vs. Whitened Light Curve

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

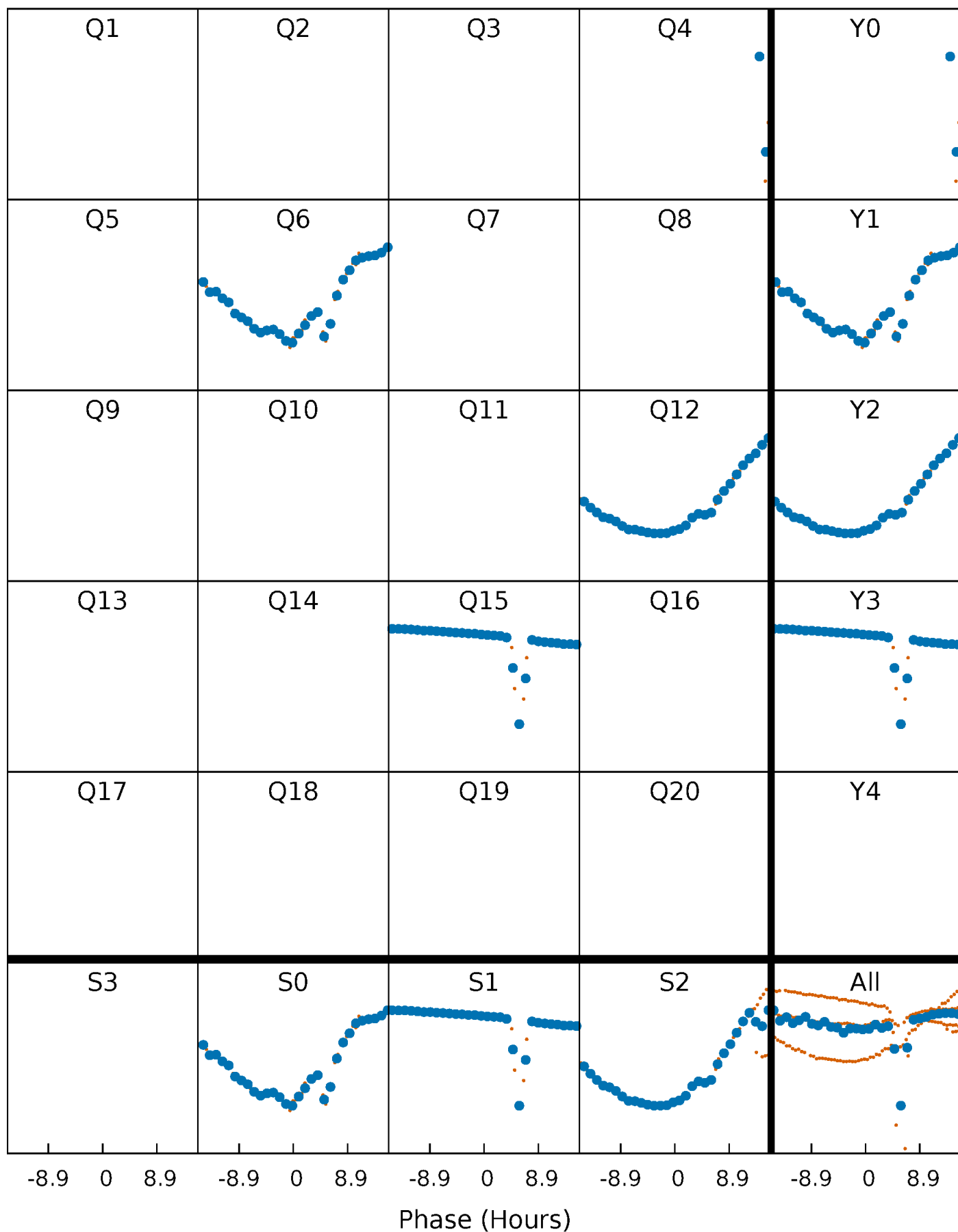


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



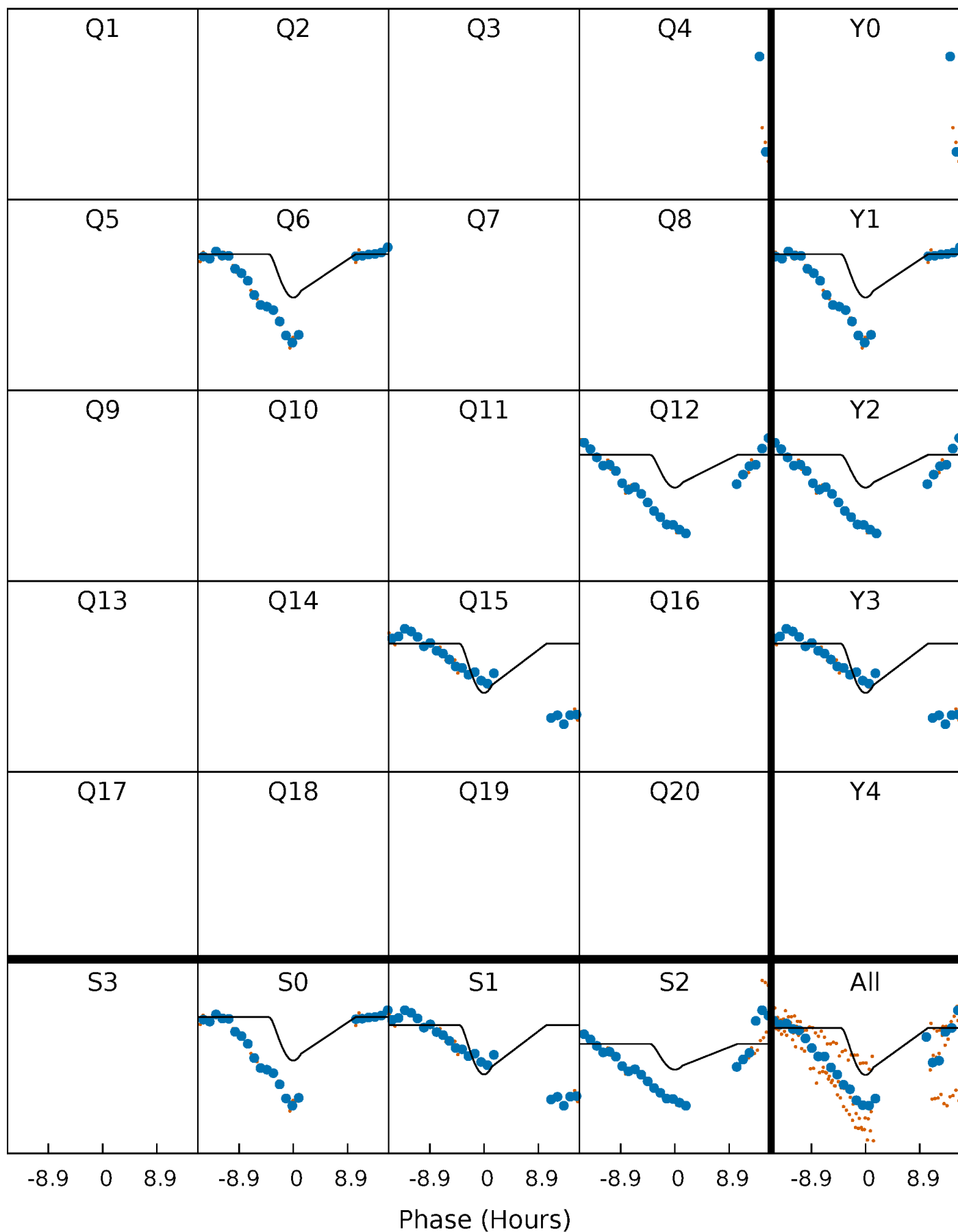
PDC Quarter-Phased Transit Curves

TCE 005768927-03 P=261.233950 Days $T_0=351.840498$ (BKJD)



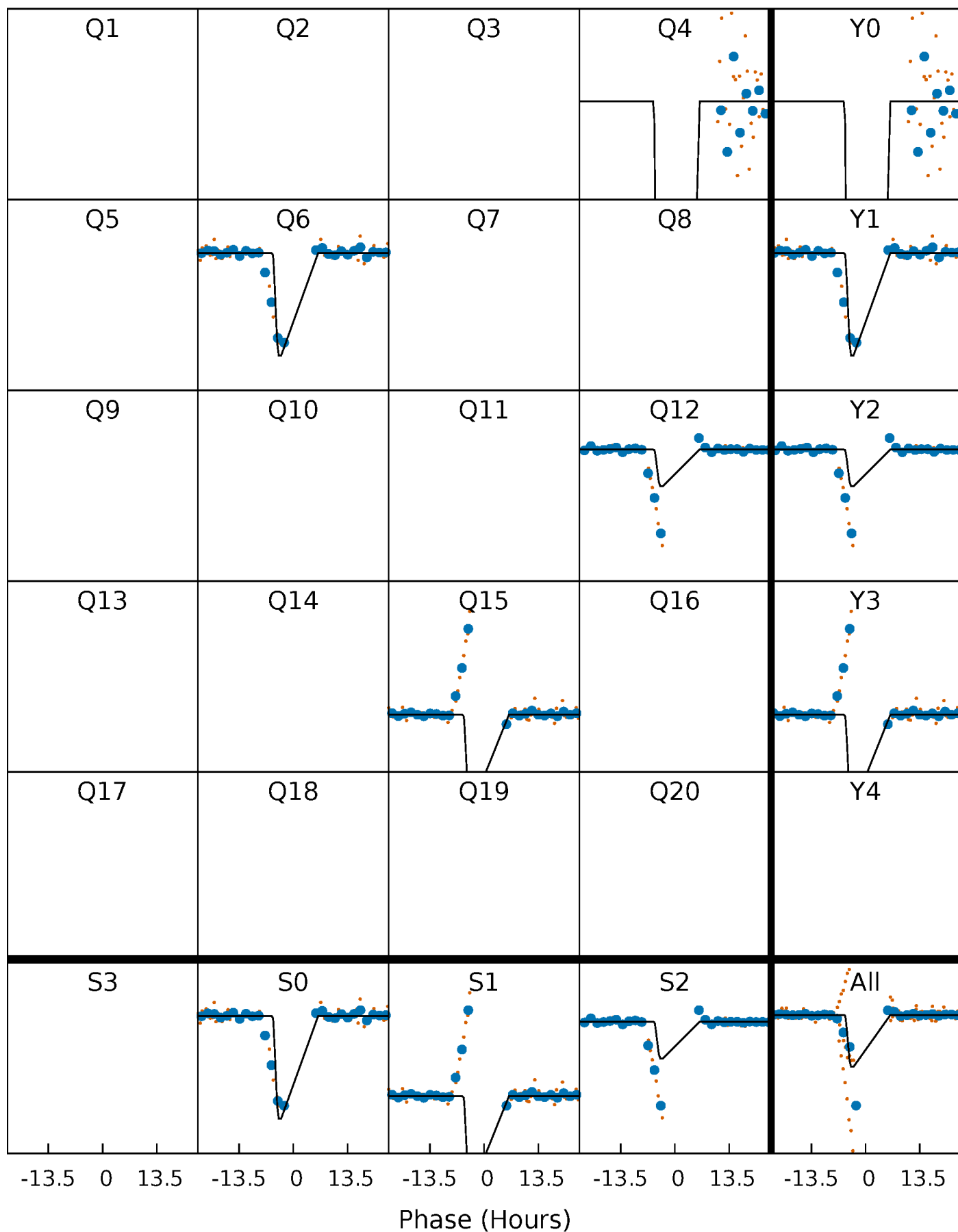
DV Quarter-Phased Transit Curves

TCE 005768927-03 $P=261.233950$ Days $T_0=351.840498$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

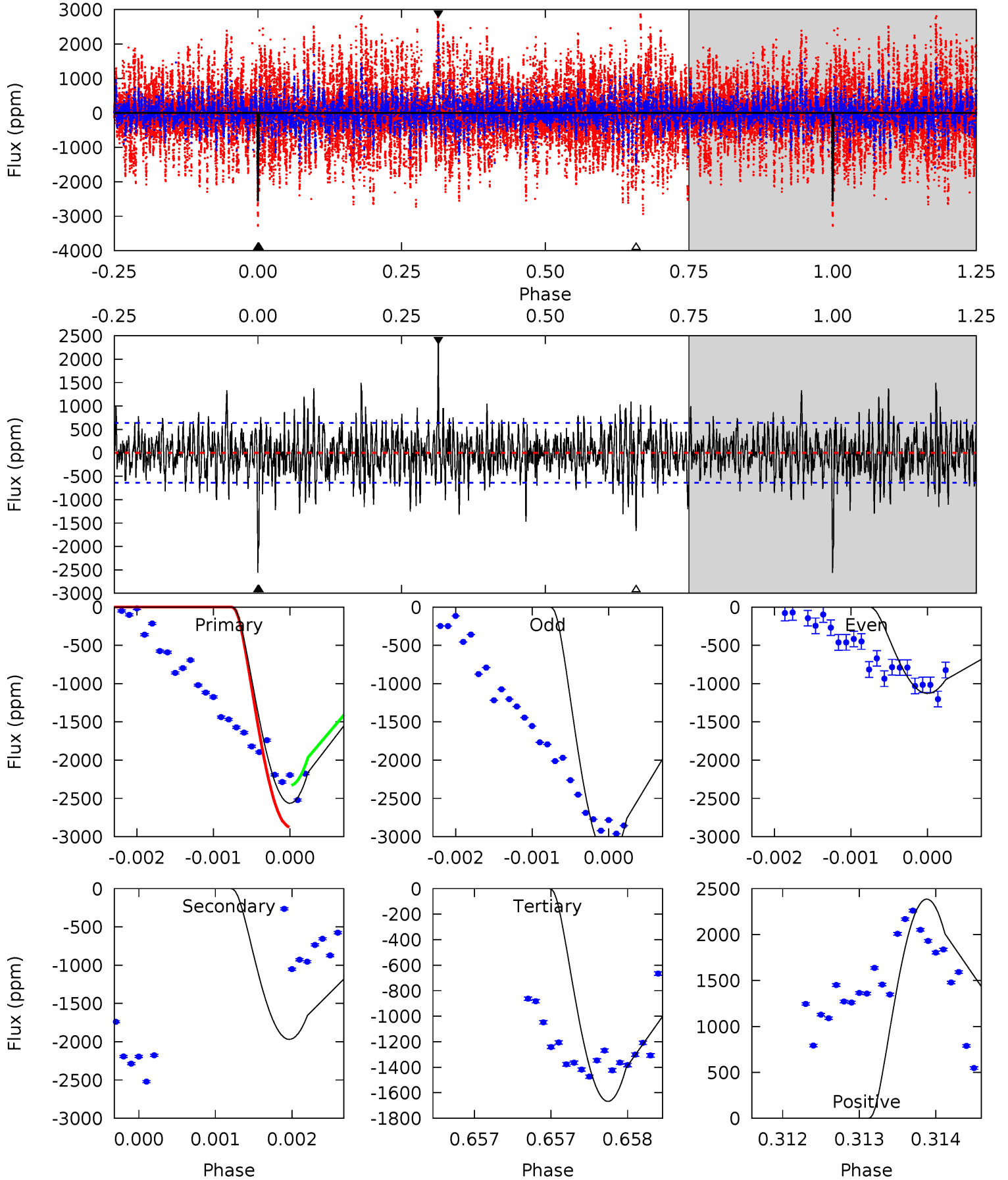
TCE 005768927-03 P=261.244194 Days $T_0=351.993646$ (BKJD)



DV Model-Shift Uniqueness Test

005768927-03, P = 261.233950 Days, E = 90.606548 Days

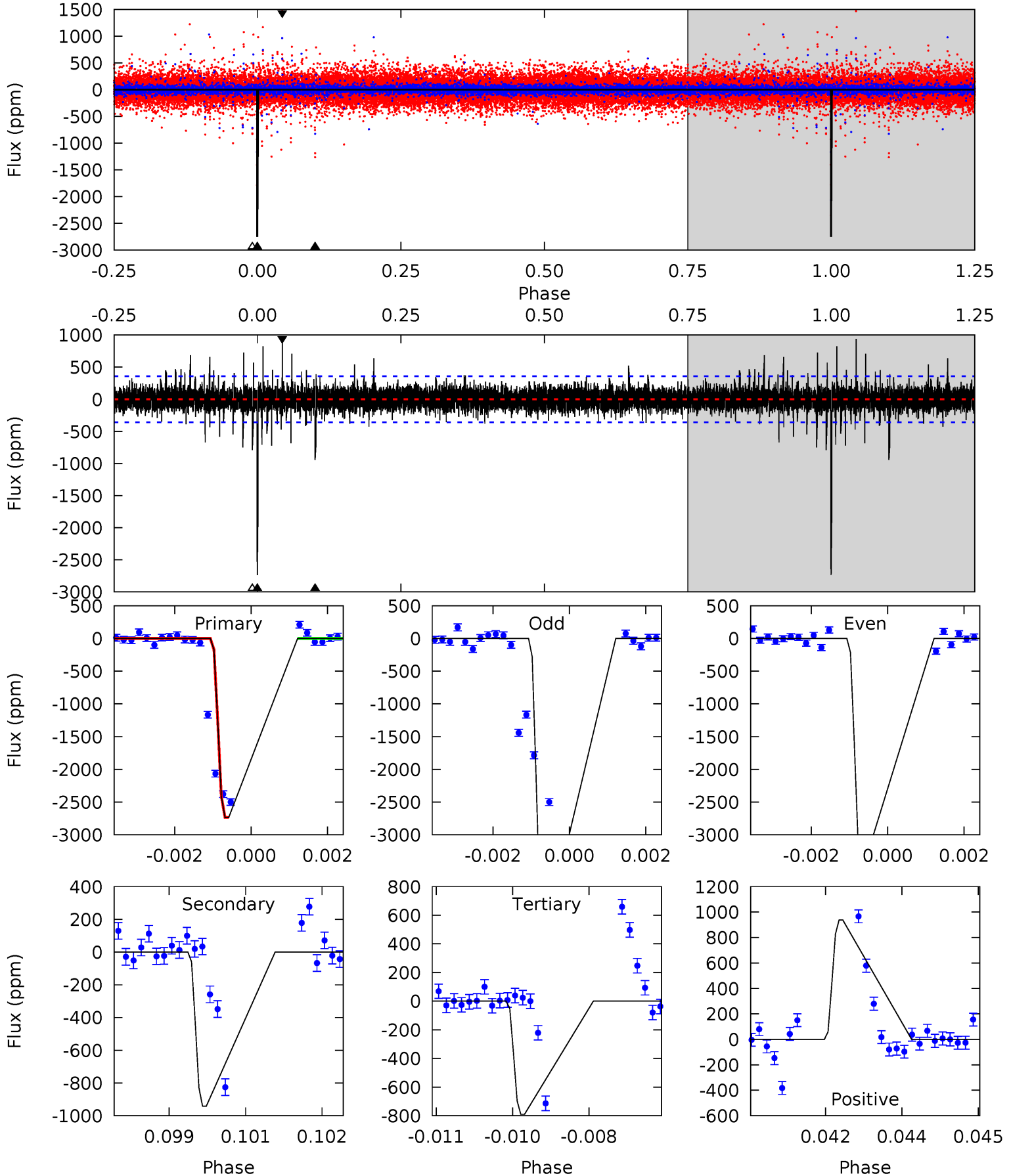
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.0	16.9	14.3	20.5	5.48	3.33	3.35	7.69	1.52	2.59	-3.58	8.12	0.85	0.48	1.87



Alt Model-Shift Uniqueness Test

005768927-03, P = 261.244194 Days, E = 90.749452 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.1	14.1	11.9	14.1	5.36	3.15	1.33	29.2	27.0	2.27	0.06	9.70	0	0.26	0



Stellar Parameters For KIC 005768927

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6081^{+165}_{-183}	$4.133^{+0.286}_{-0.154}$	$-0.160^{+0.300}_{-0.300}$	$1.454^{+0.422}_{-0.464}$	$1.046^{+0.163}_{-0.148}$	$0.480^{+0.793}_{-0.228}$
	+3%/-3%	+7%/-4%	+188%/-188%	+29%/-32%	+16%/-14%	+165%/-48%
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 005768927-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1969 ± 117	$18.17^{+18.69}_{-12.17}$	496^{+40}_{-42}	4028^{+2483}_{-788}	2223^{+18261}_{-1681}
Alt.	-942 ± 67	$17.18^{+15.81}_{-11.41}$	494^{+38}_{-45}	3620^{+1813}_{-653}	1181^{+9249}_{-878}

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

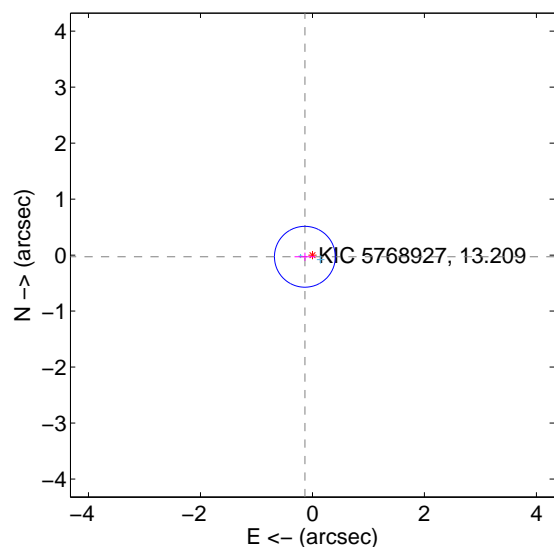
Supplemental centroid analysis for 005768927-03. Kepler magnitude: 13.21. Transit SNR 8.03

There are 2 quarters with good PRF difference image offsets

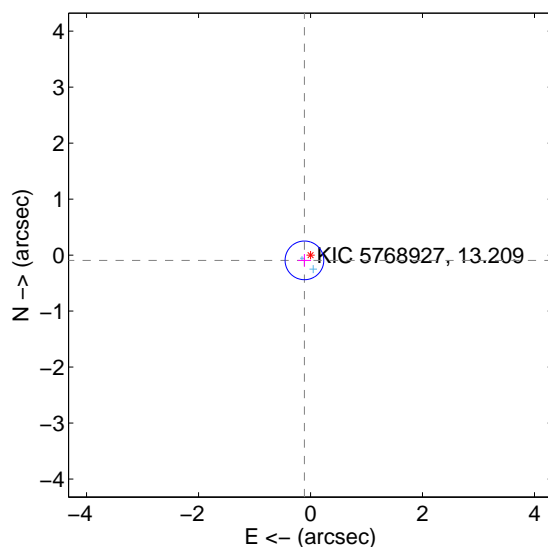
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.138 ± 0.181	0.76	0.135 ± 0.185	-0.030 ± 0.073
PRF-fit source offset from KIC position	0.144 ± 0.115	1.25	0.109 ± 0.117	-0.094 ± 0.113
photometric centroid source offset	0.91 ± 0.90	1.02	0.84 ± 0.96	-0.36 ± 0.38

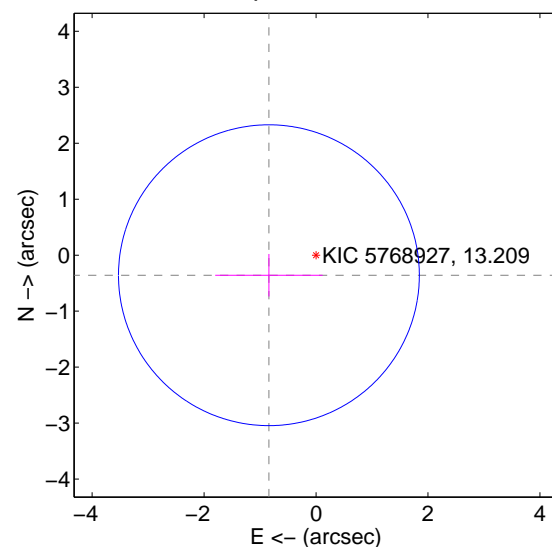
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

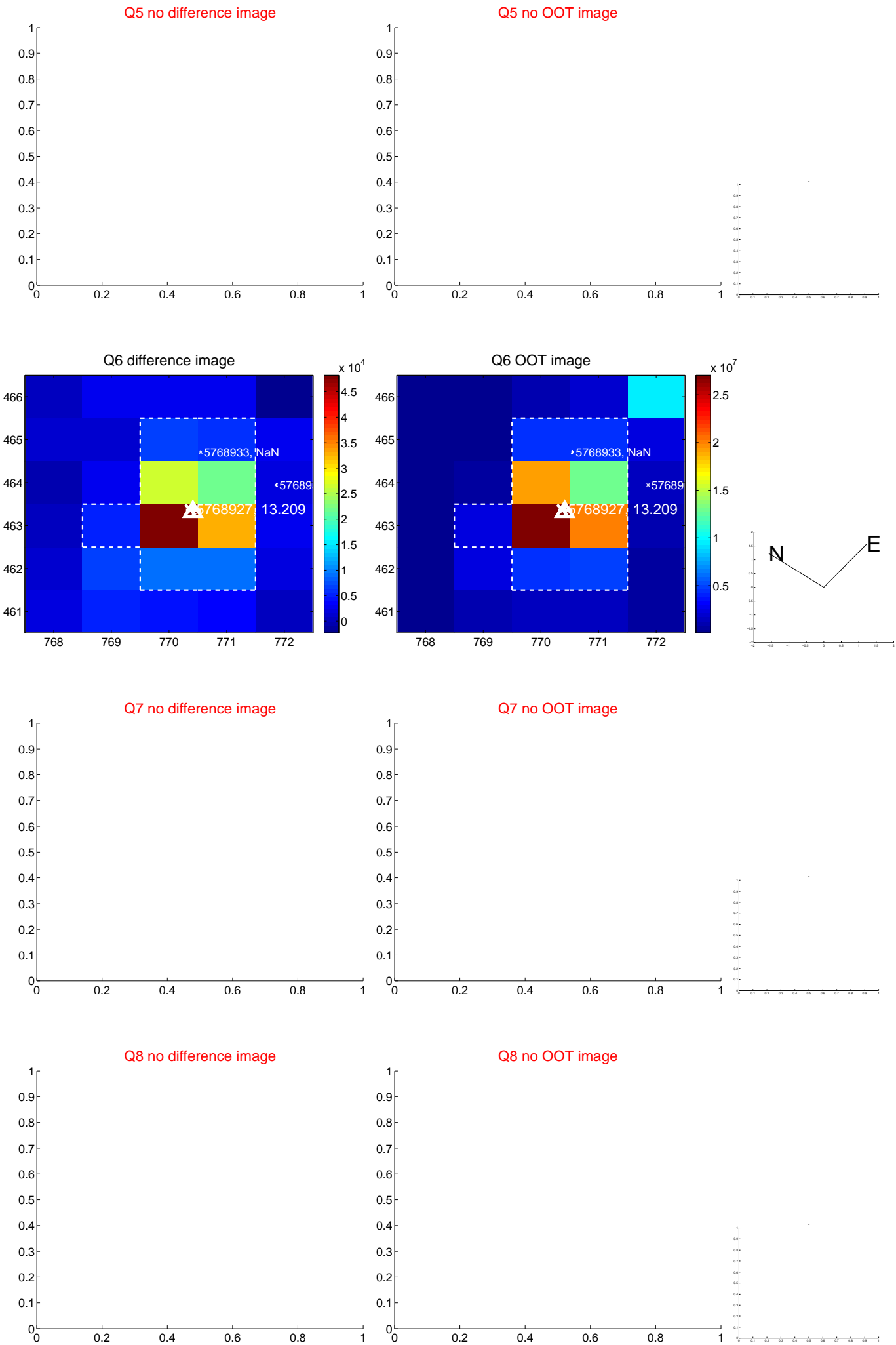


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

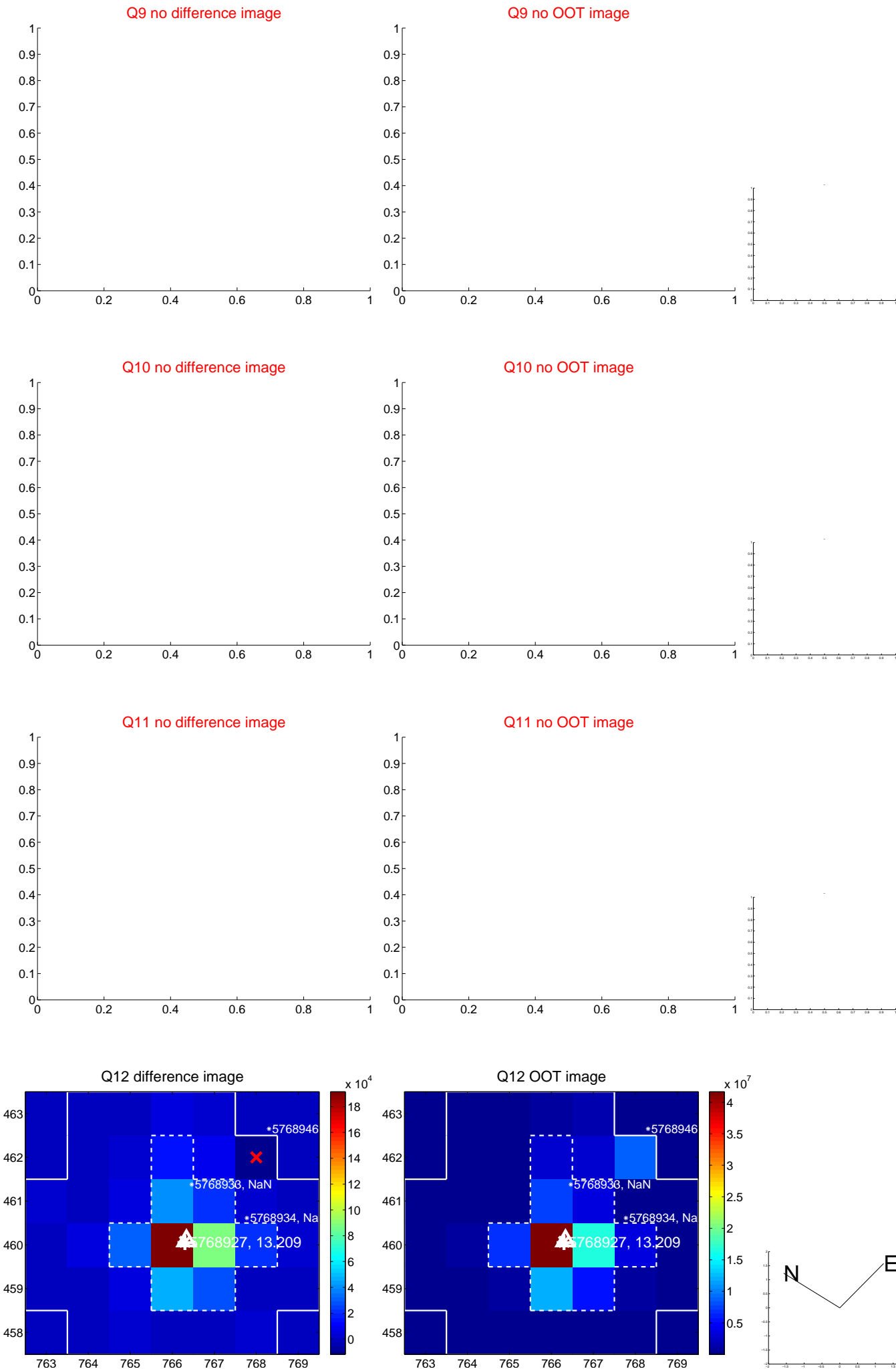
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



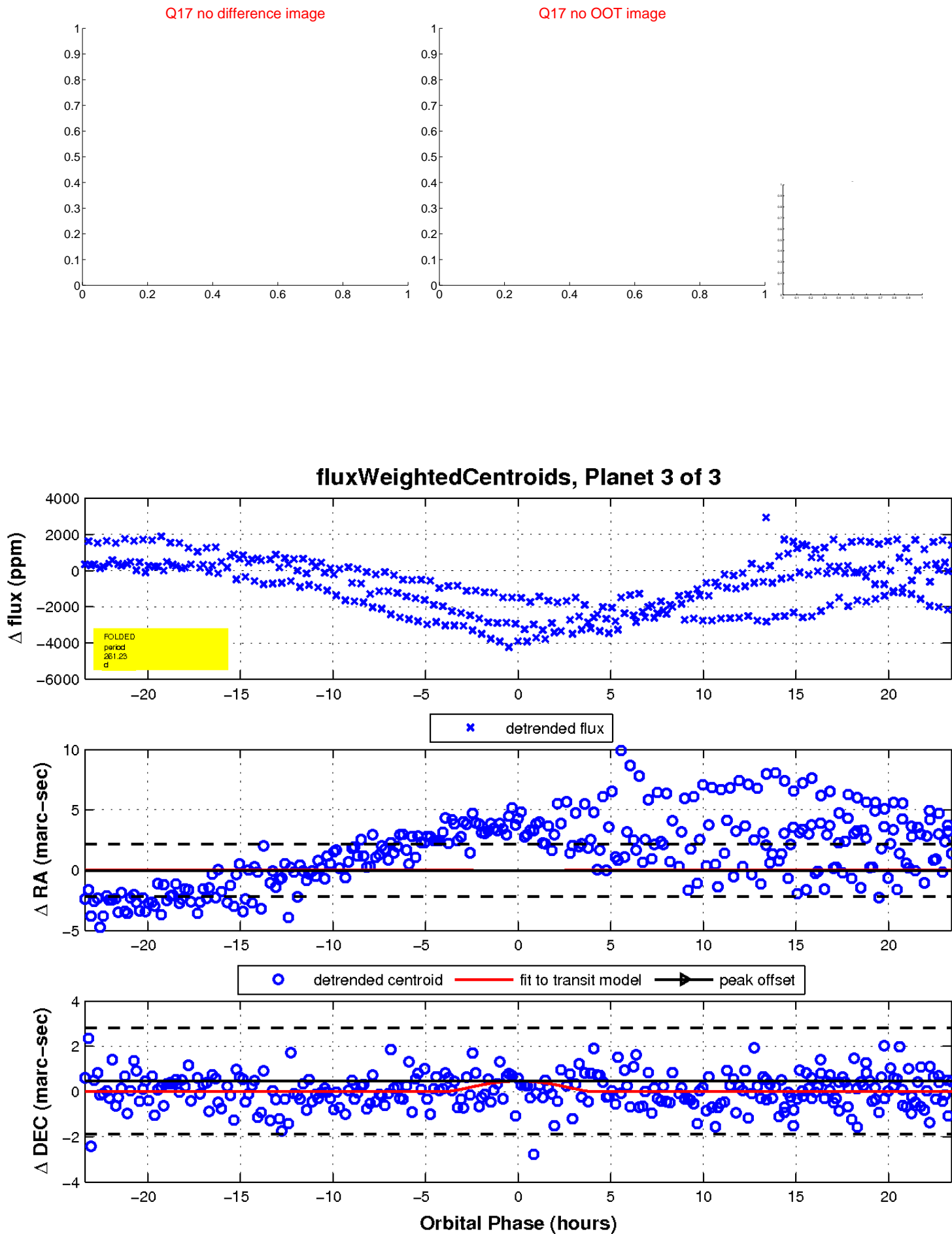
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

