

KIC 007750740

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})
007750740-01	OBS	6162.01	5.874197	134.318781	205115.6	4.257	10478.6	7434.9	1.08	6103	74.24	362.15
007750740-02	OBS	No	2.937097	134.319372	16990.8	4.114	915.9	868.4	1.08	6103	24.50	912.56
007750740-03	OBS	No	505.240205	436.372898	1698.9	3.500	12.8	-1.0	1.08	6103	4.47	0.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007750740-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
007750740-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007750740-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

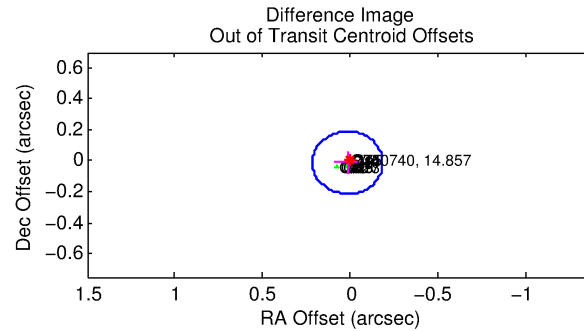
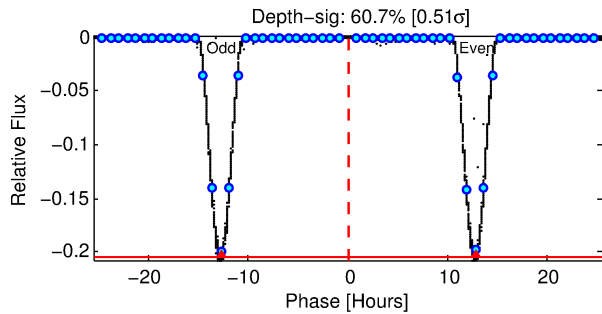
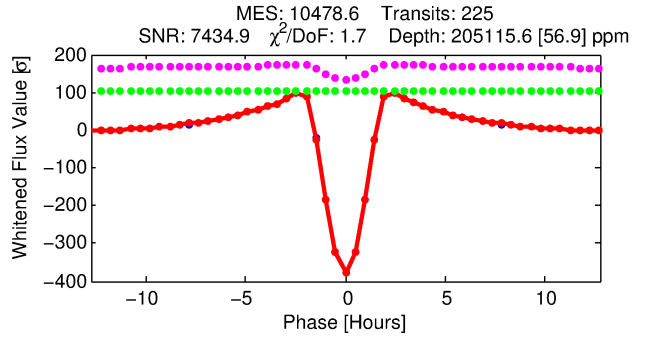
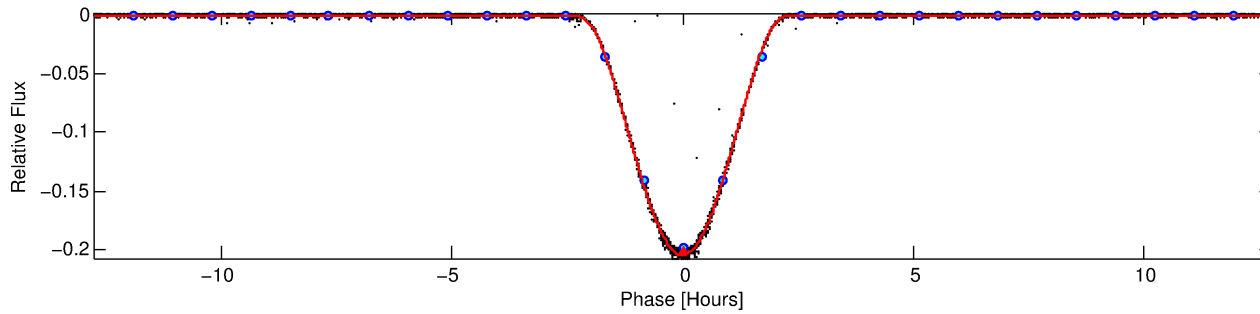
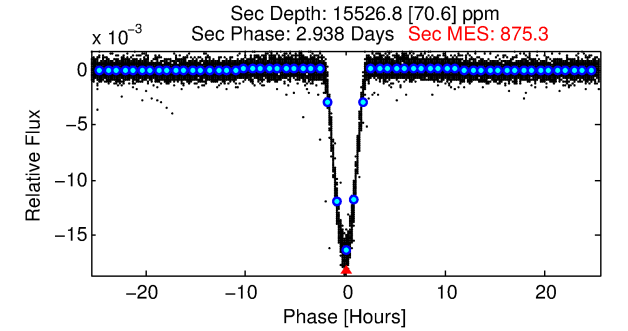
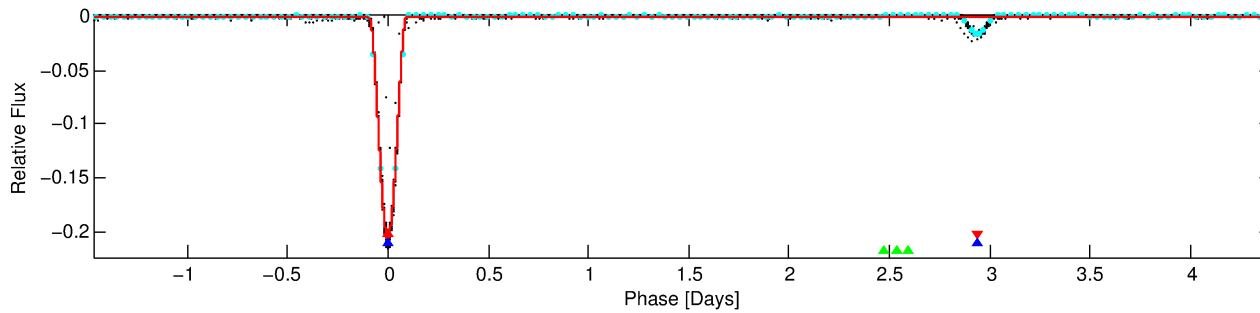
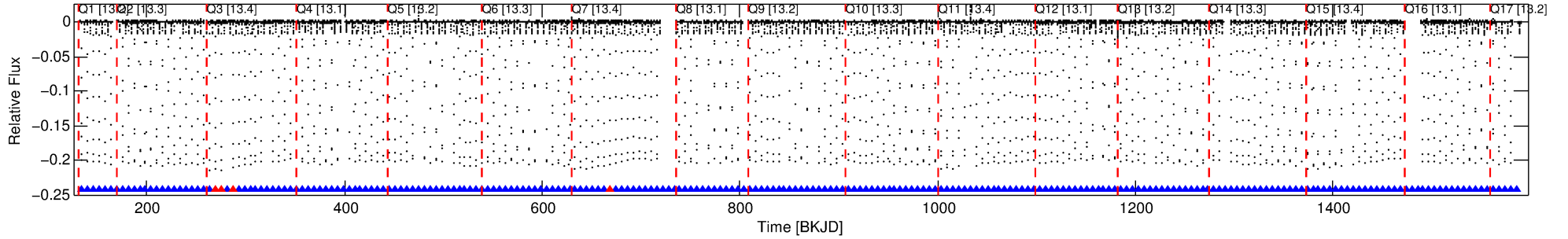
Ephemeris Match Information For 007750740-01

No Significant Match Found

DV One-Page Summary

KIC: 7750740 Candidate: 1 of 3 Period: 5.874 d
KOI: K06162.01 Corr: 0.999

Kp: 14.86 R*: 1.08 Rs Teff: 6103.0 K Logg: 4.36 Fe/H: -0.220



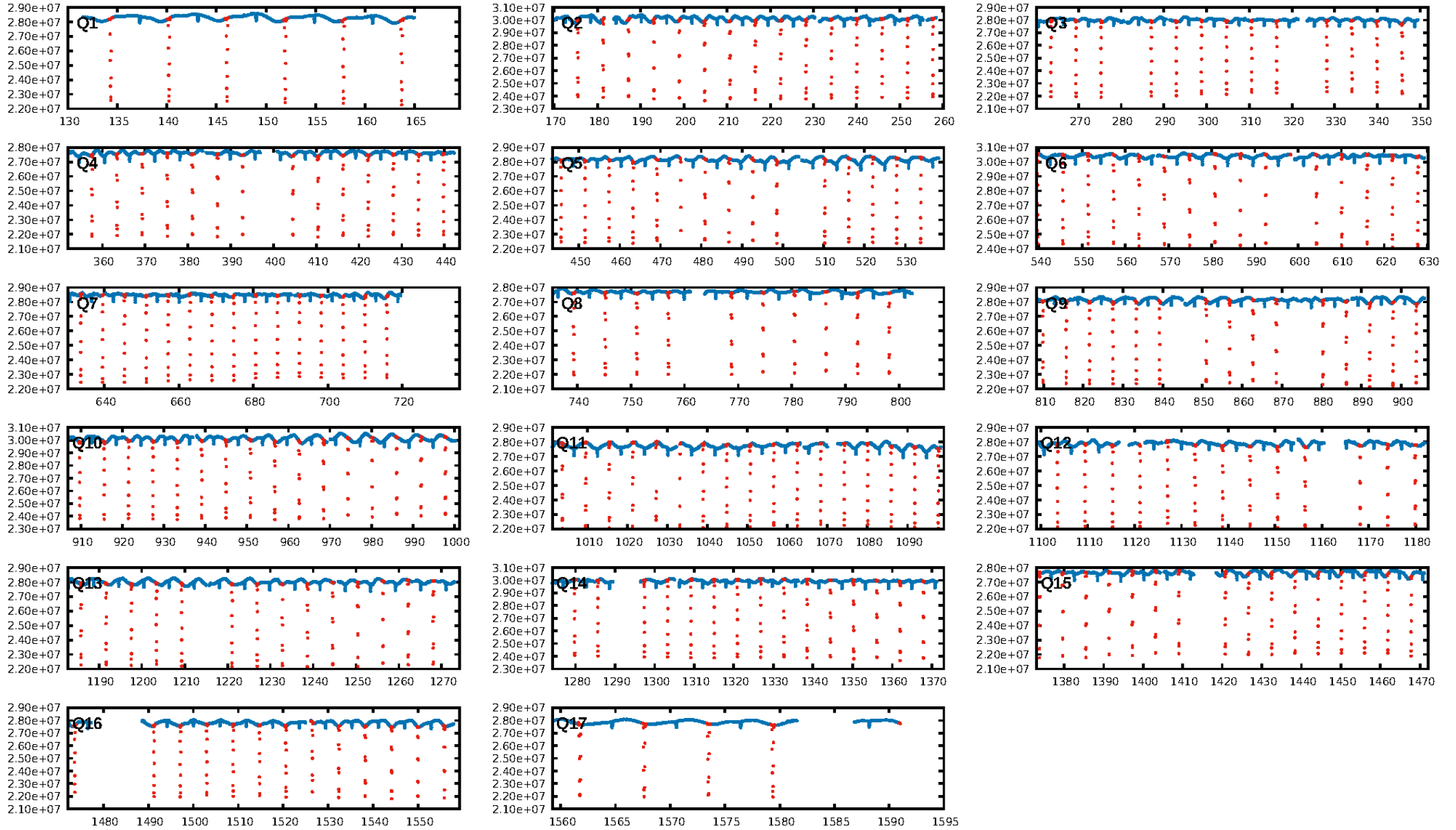
DV Fit Results:

Period = 5.87420 [0.00000] d
Epoch = 134.3188 [0.0000] BKJD
Rp/R* = 0.6282 [0.0073]
a/R* = 14.37 [0.03]
b = 0.90 [0.01]
Seff = 362.15 [143.39]
Teq = 1112 [110] K
Rp = 74.24 [22.91] Re
a = 0.0634 [0.0163] AU
Ag = 6.24 [2.32] [2.26σ]
Teffp = 2718 [96] K [11.00σ]

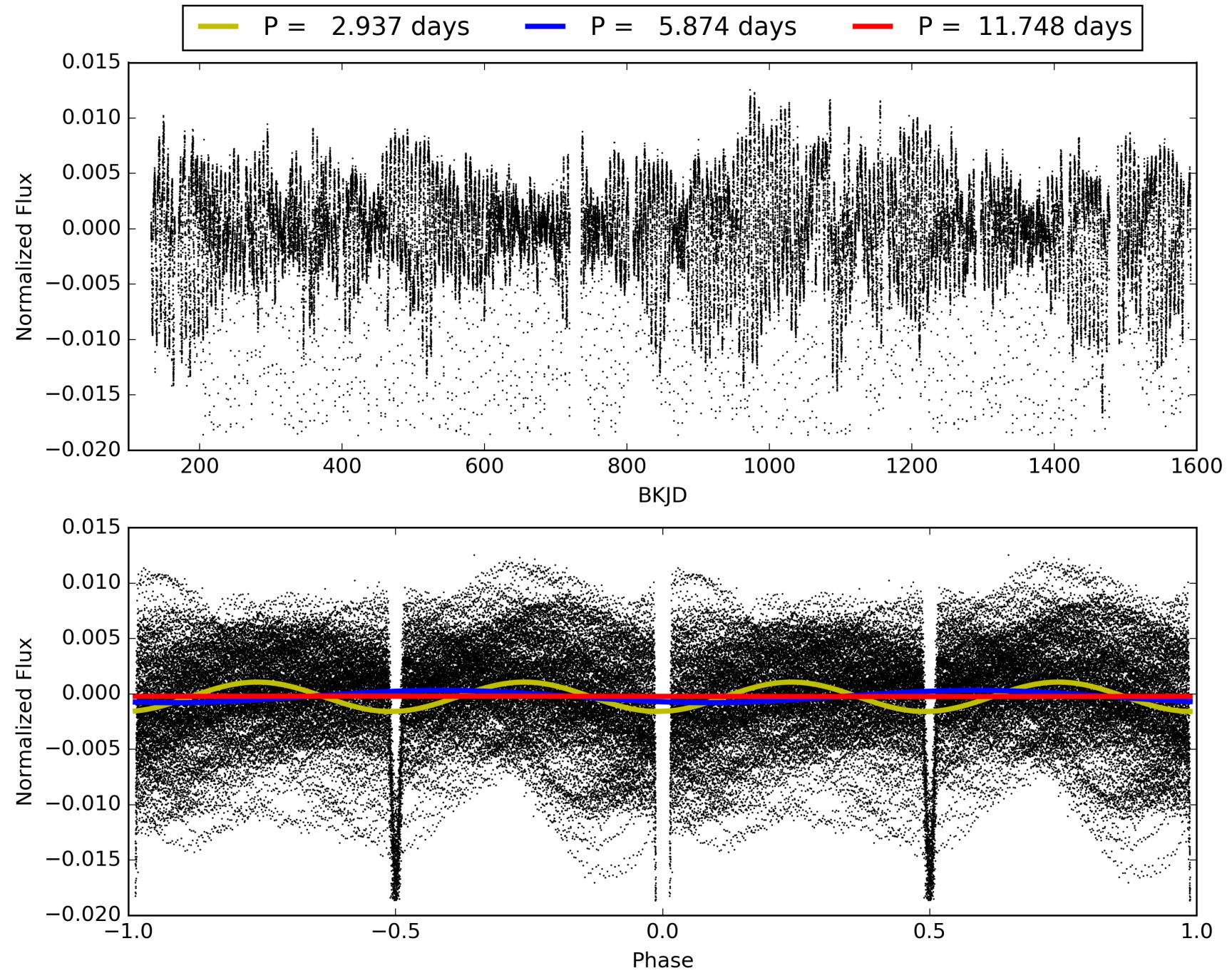
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.91σ]
LongPeriod-sig: 100.0% [2174.60σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [211/215]
GhostDiagnostic-chr: 2.704
Centroid-sig: 0.0%
Centroid-so: 0.049 arcsec [39.89σ]
OotOffset-rm: 0.021 arcsec [0.31σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.024 arcsec [0.35σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007750740-01, PDC Light Curves

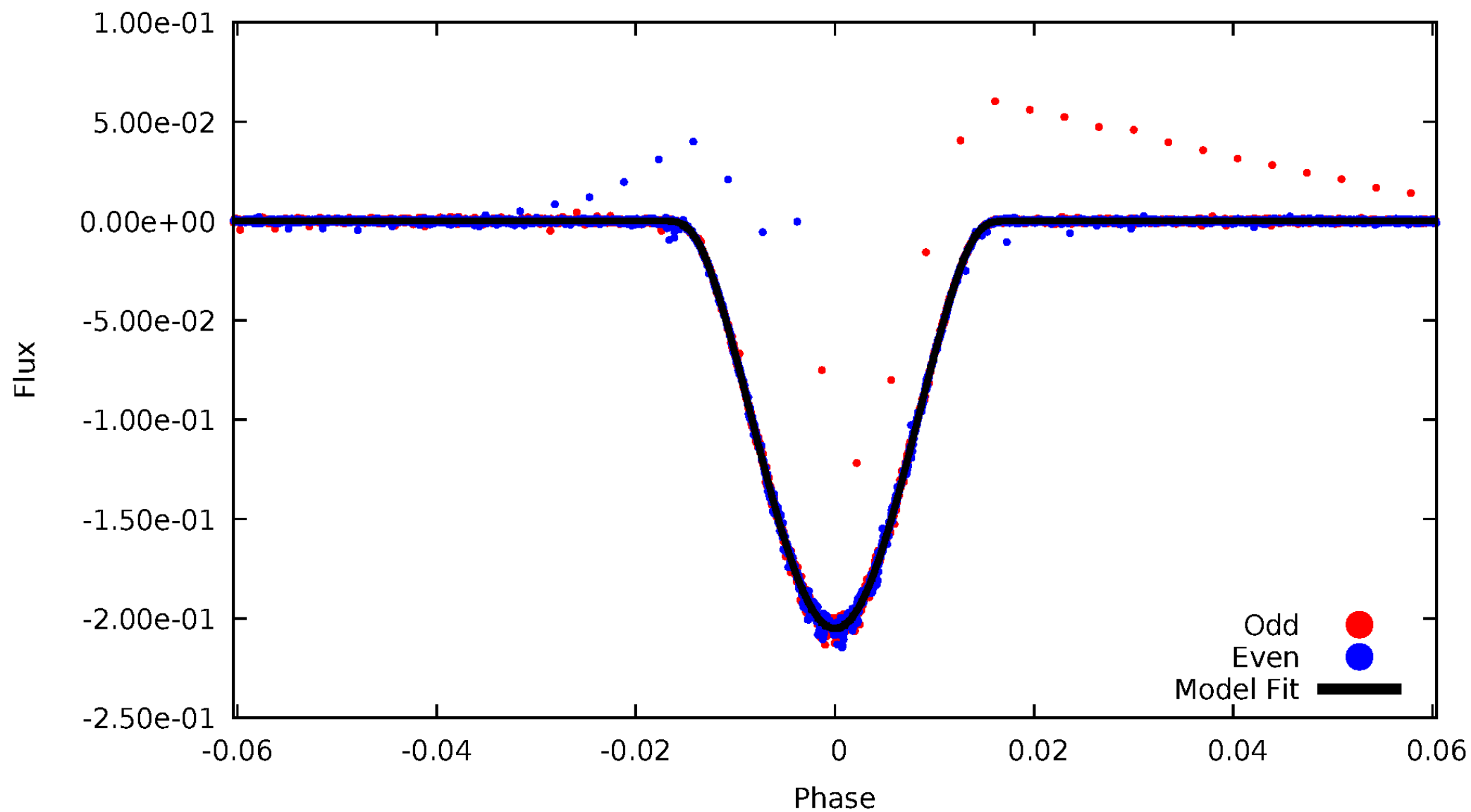


TCE 007750740-01



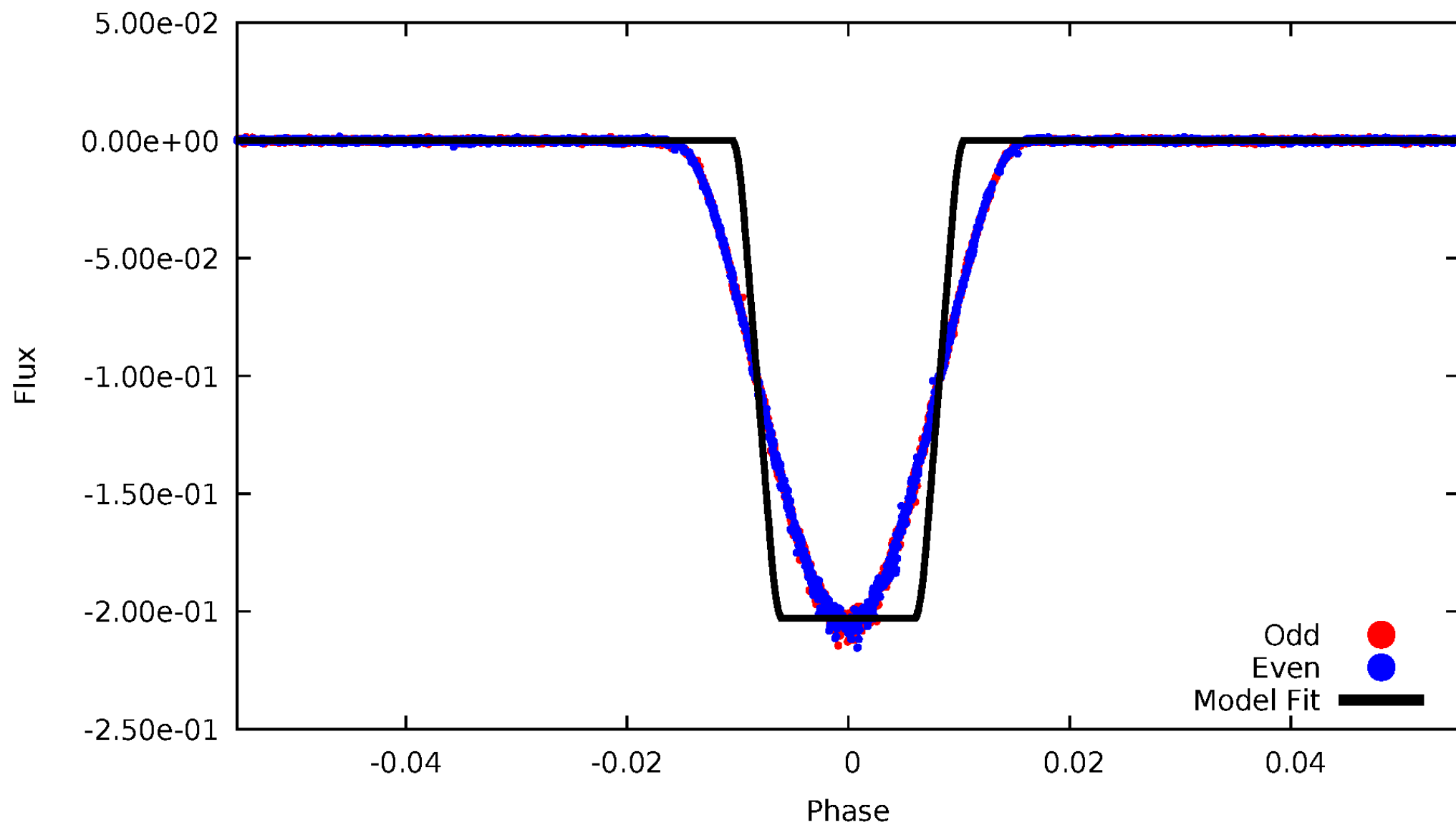
DV Odd/Even

TCE 007750740-01



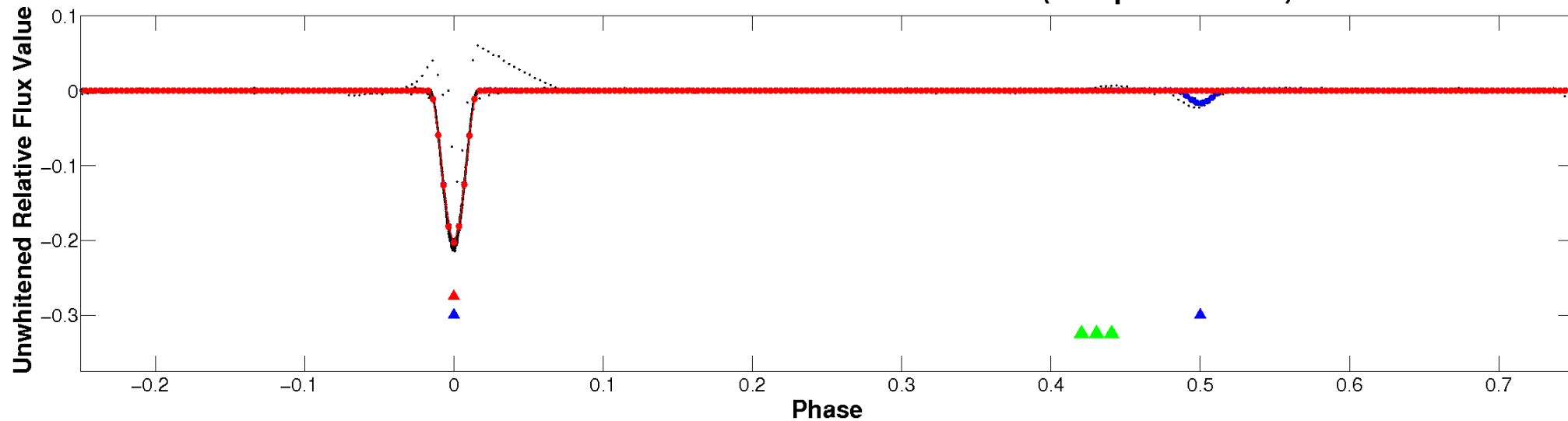
ALT Odd/Even

TCE 007750740-01

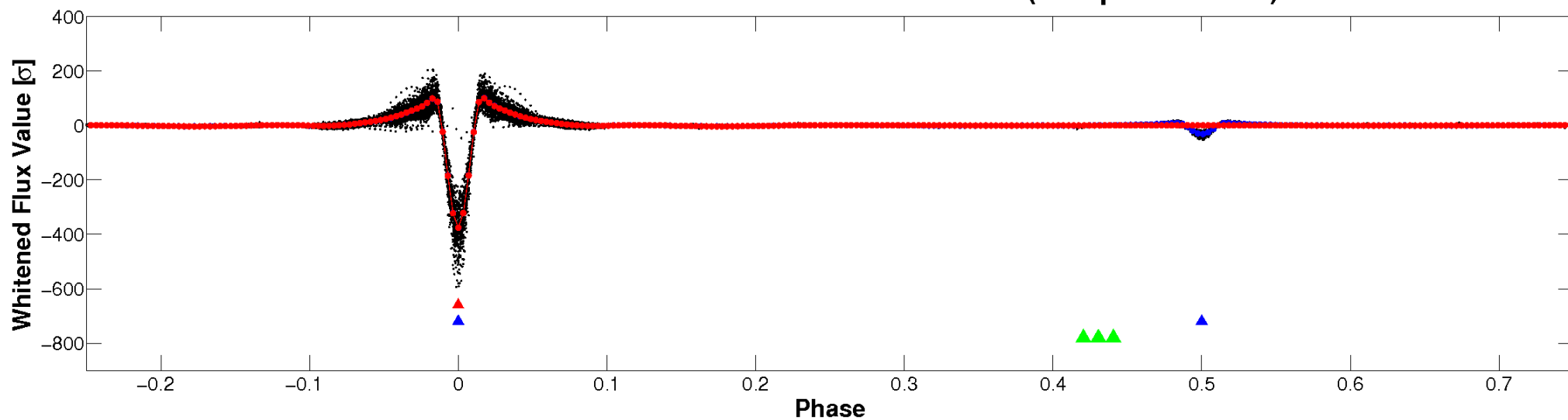


Non-Whitened Vs. Whitened Light Curve

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

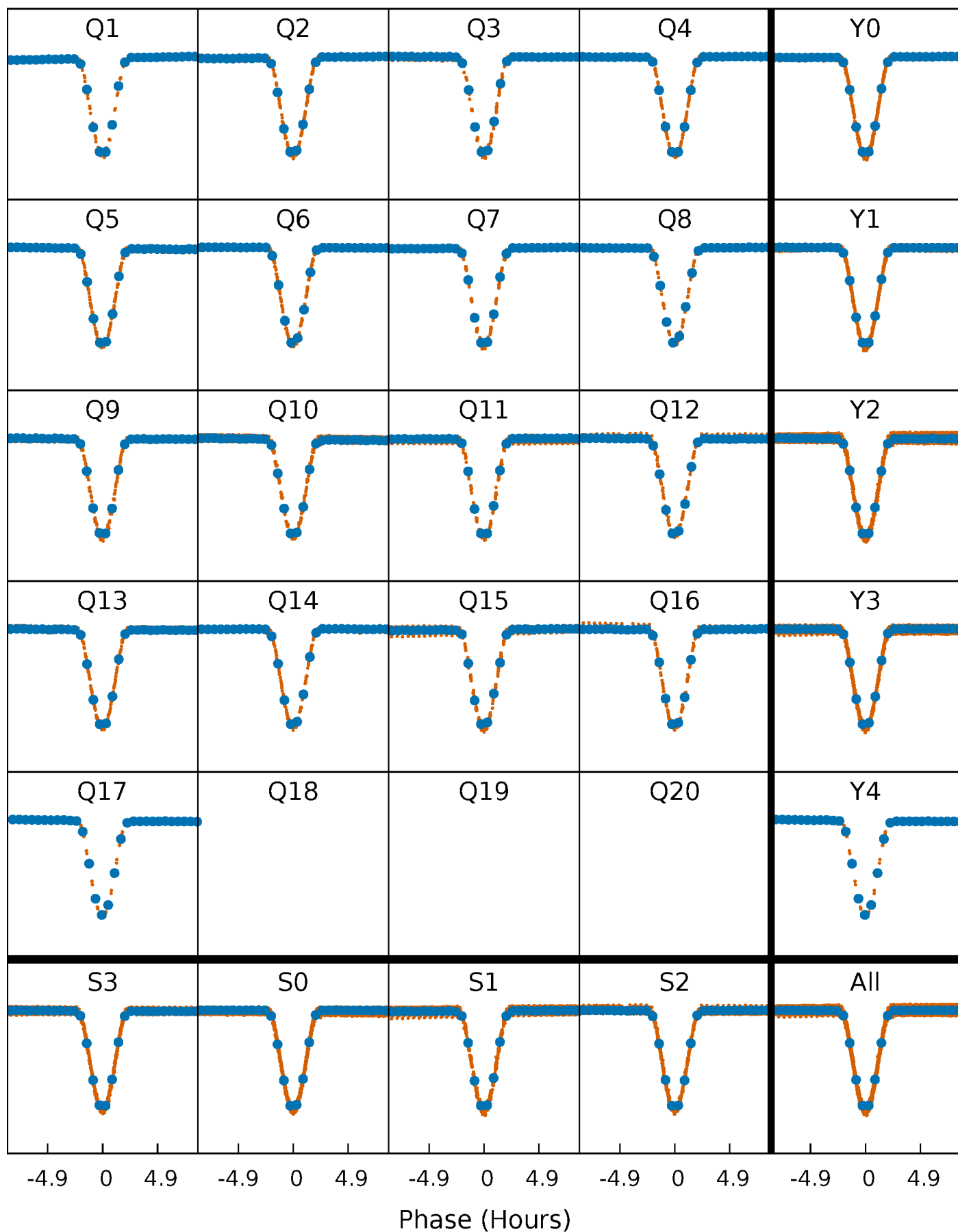


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



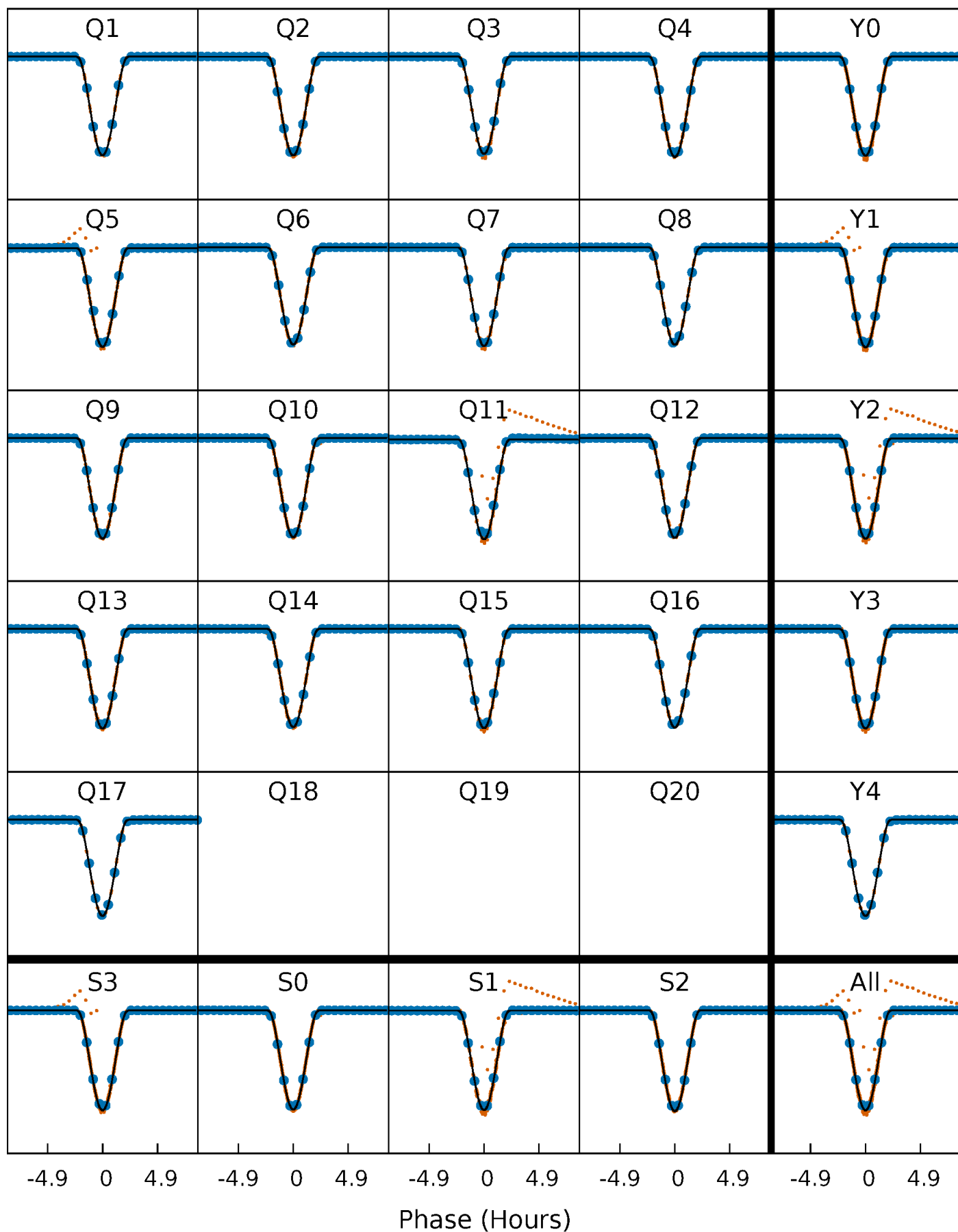
PDC Quarter-Phased Transit Curves

TCE 007750740-01 P= 5.874197 Days $T_0=134.318781$ (BKJD)



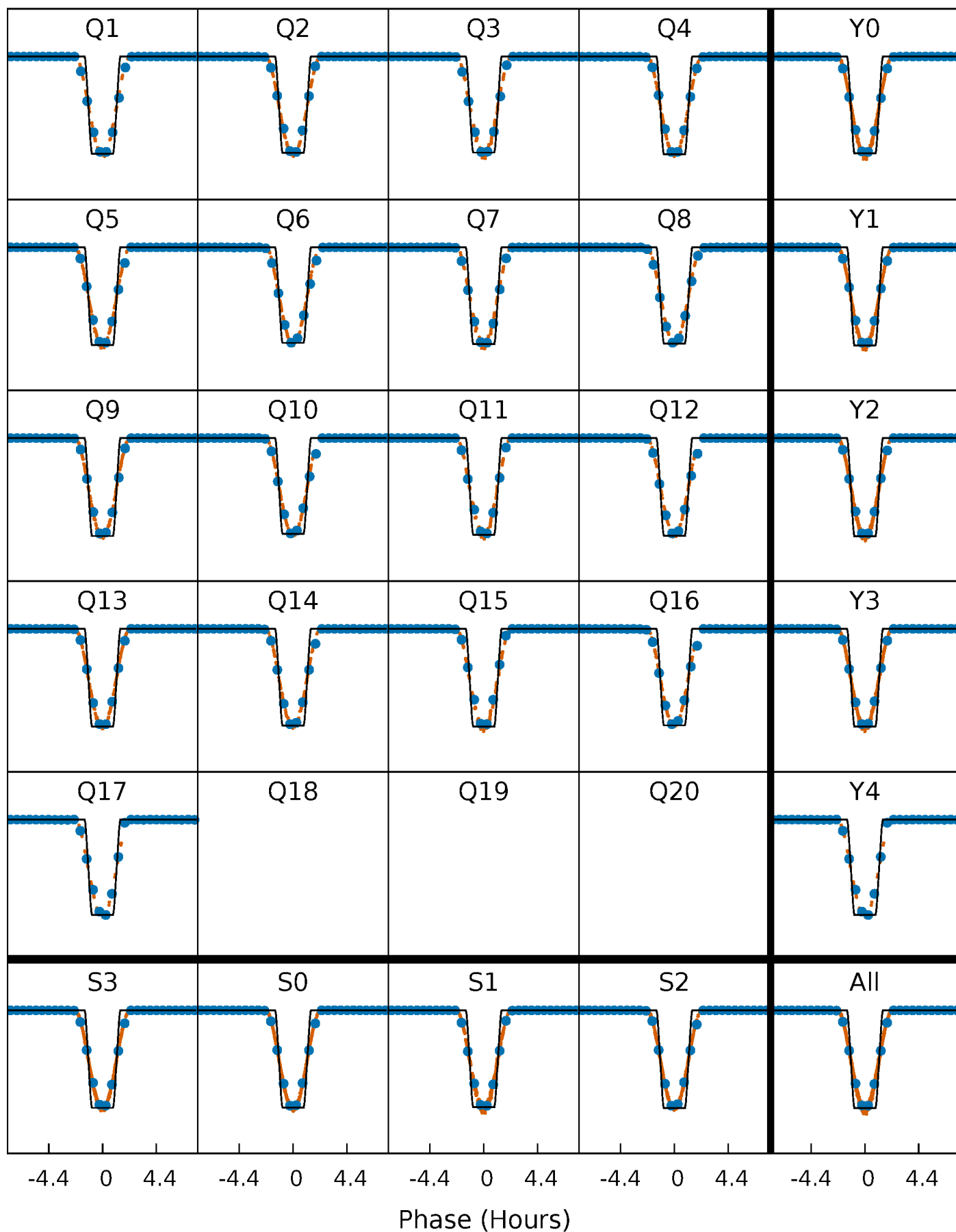
DV Quarter-Phased Transit Curves

TCE 007750740-01 P= 5.874197 Days $T_0=134.318781$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

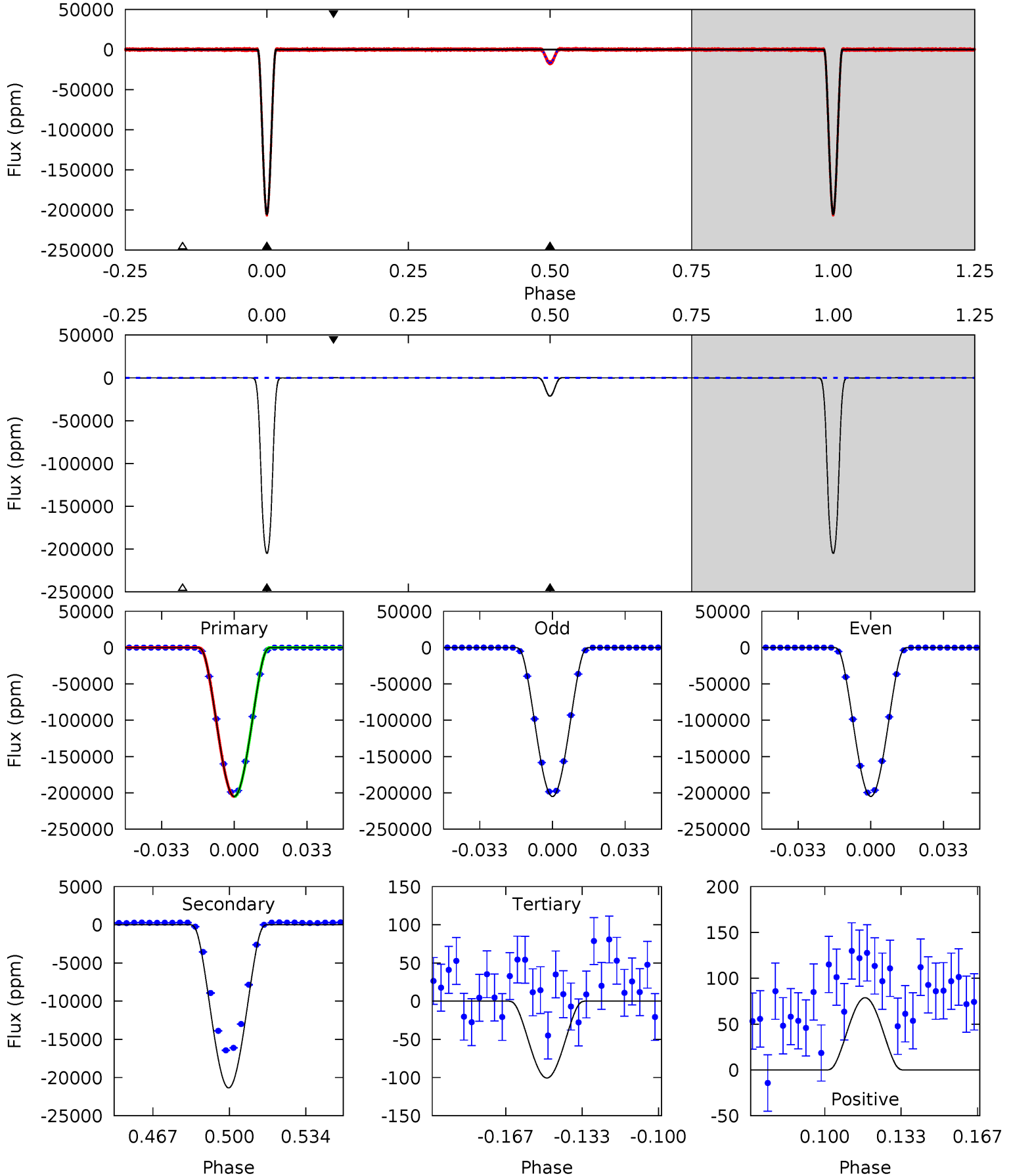
TCE 007750740-01 P= 5.874201 Days $T_0=134.318326$ (BKJD)



DV Model-Shift Uniqueness Test

007750740-01, P = 5.874197 Days, E = 128.444584 Days

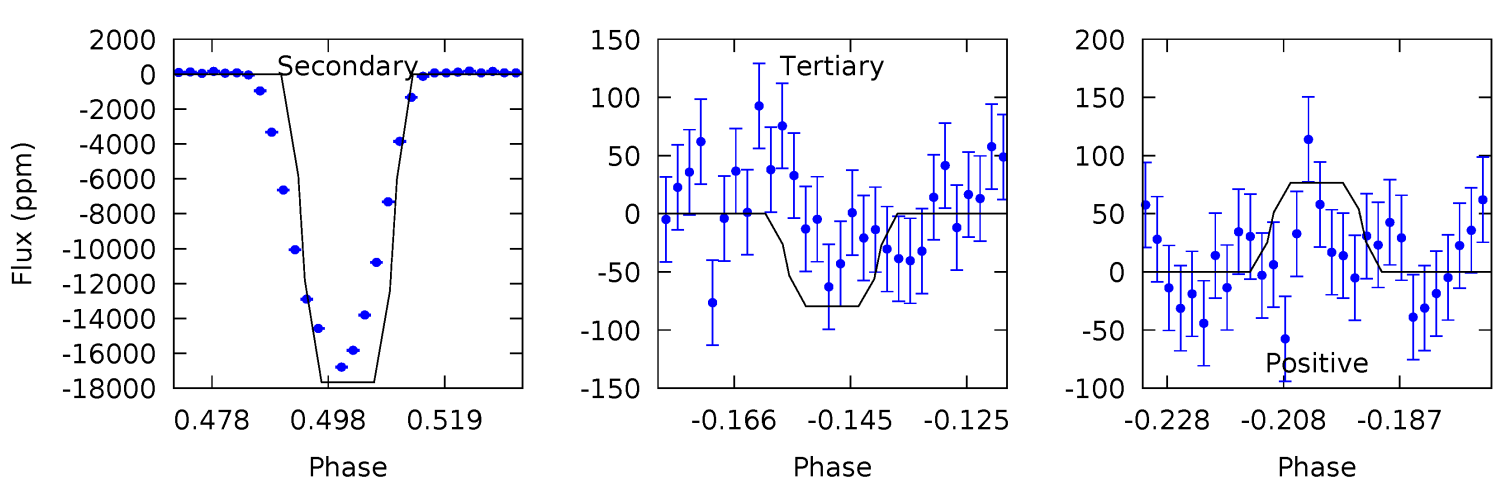
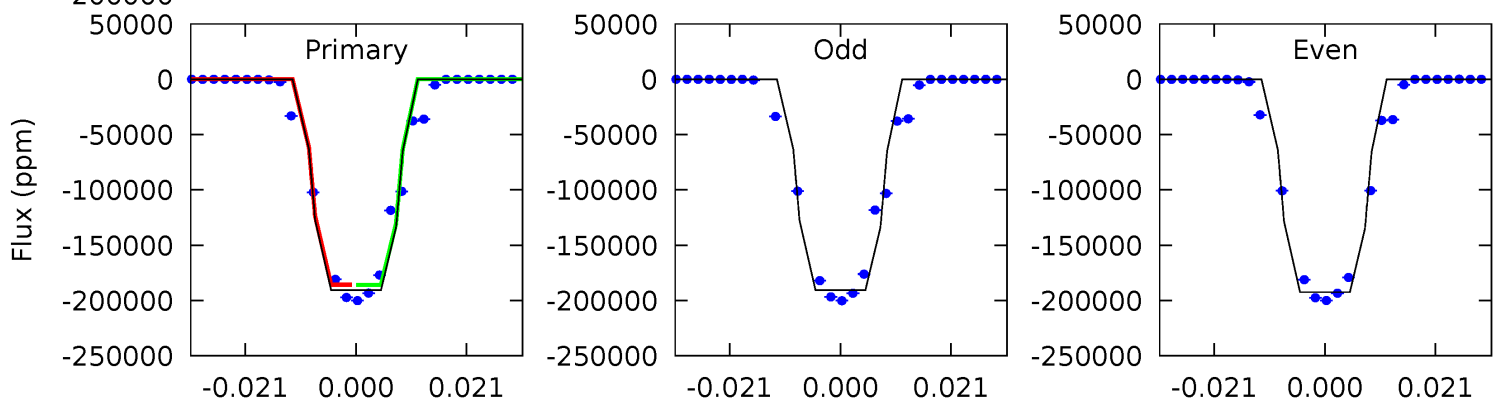
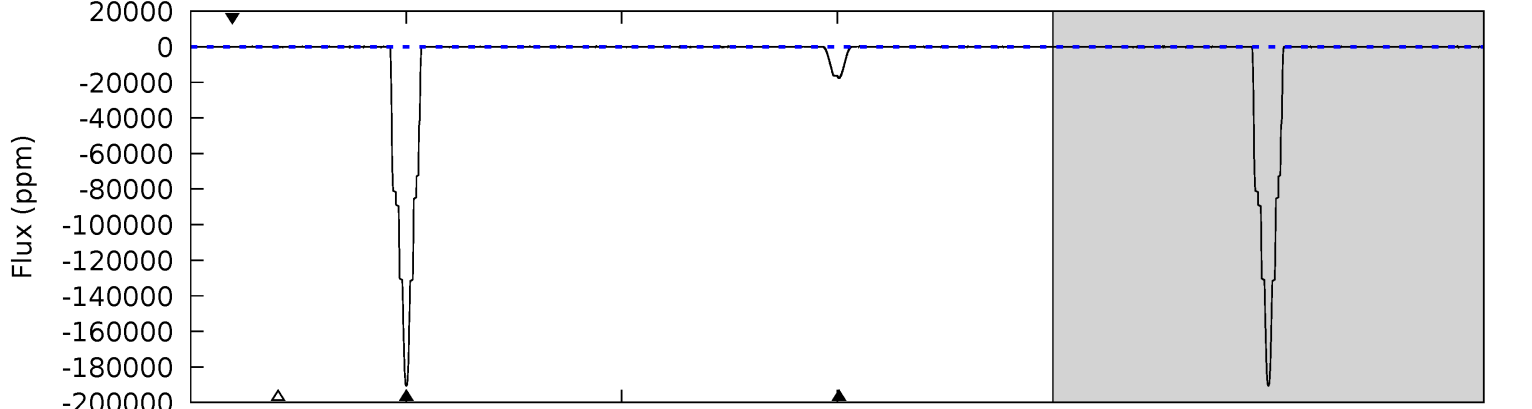
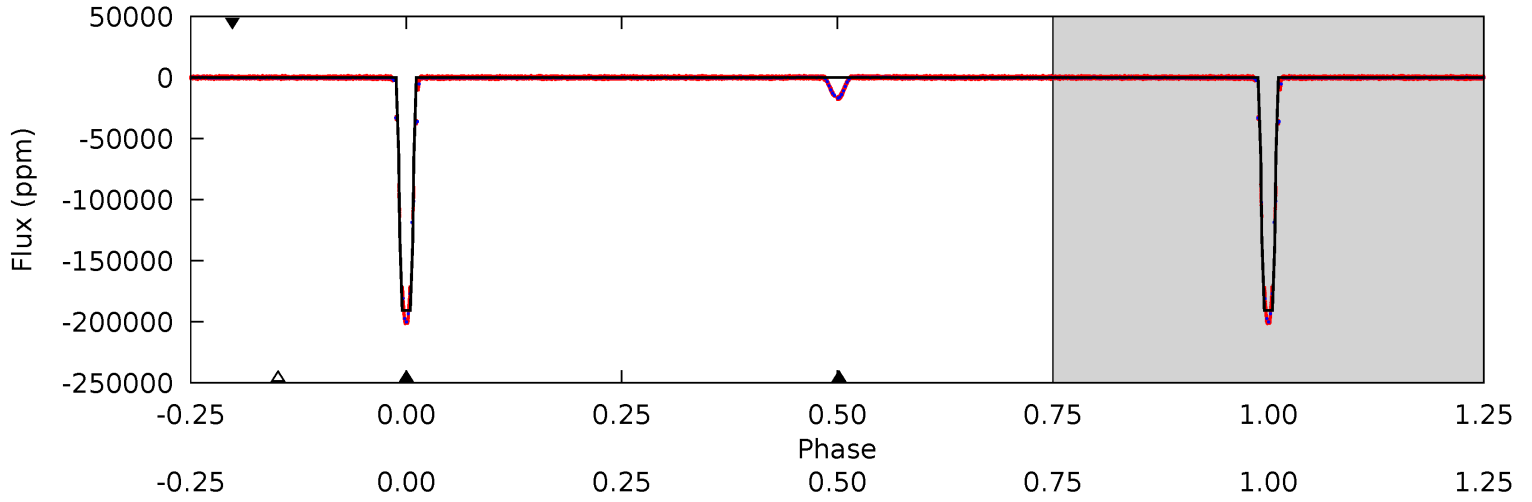
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17883	1863	8.78	6.88	4.79	2.13	7.72	17874	17876	1854	1856	5.83	1.00	0.00	6.56



Alt Model-Shift Uniqueness Test

007750740-01, P = 5.874201 Days, E = 128.444125 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8270	766.3	3.45	3.32	4.88	2.31	1.65	8267	8267	762.8	762.9	35.8	1.00	0.00	0



Stellar Parameters For KIC 007750740

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6103^{+190}_{-212}	$4.363^{+0.124}_{-0.201}$	$-0.220^{+0.300}_{-0.300}$	$1.083^{+0.334}_{-0.180}$	$0.987^{+0.153}_{-0.111}$	$1.094^{+0.633}_{-0.540}$
	+3%/-3%	+3%/-5%	+136%/-136%	+31%/-17%	+16%/-11%	+58%/-49%
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 007750740-01 / KOI 6162.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-21349 ± 11	$75.10^{+13.09}_{-7.70}$	1568^{+122}_{-96}	3436^{+75}_{-72}	$8.559^{+1.886}_{-2.219}$
Alt.	-17661 ± 23	$53.54^{+9.08}_{-5.45}$	1562^{+115}_{-95}	3719^{+82}_{-82}	14^{+3}_{-3}

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 $A_{obs} \gg 1.0$

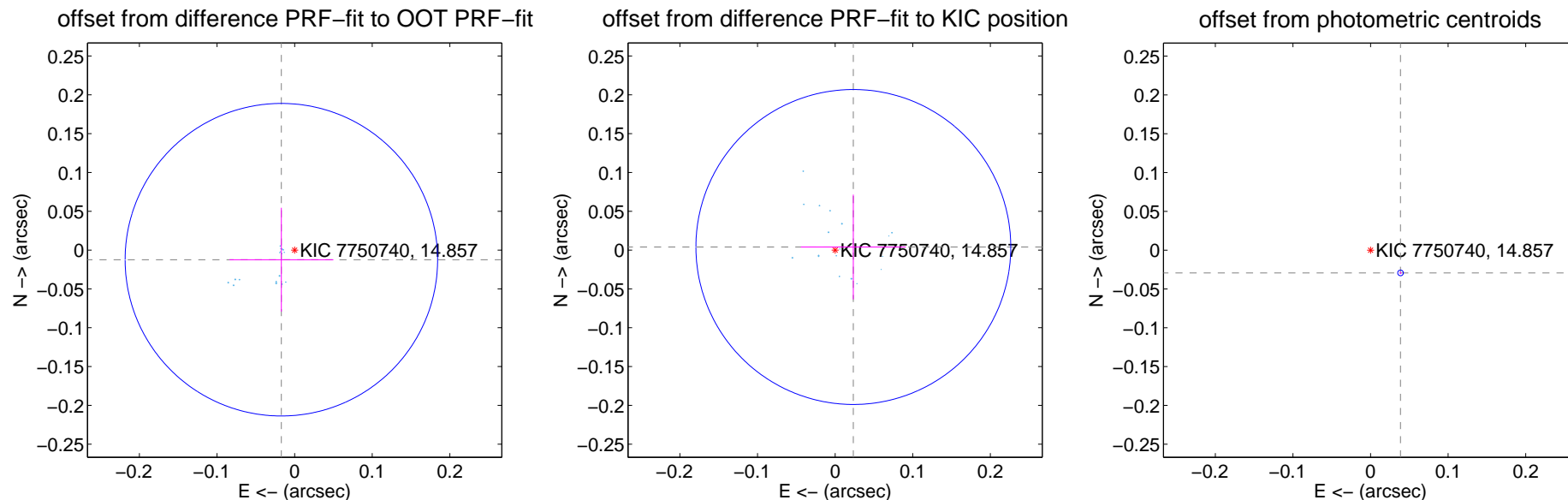
DV Centroid Data

Supplemental centroid analysis for 007750740-01. Kepler magnitude: 14.86. Transit SNR 7434.93

There are 17 quarters with good PRF difference image offsets

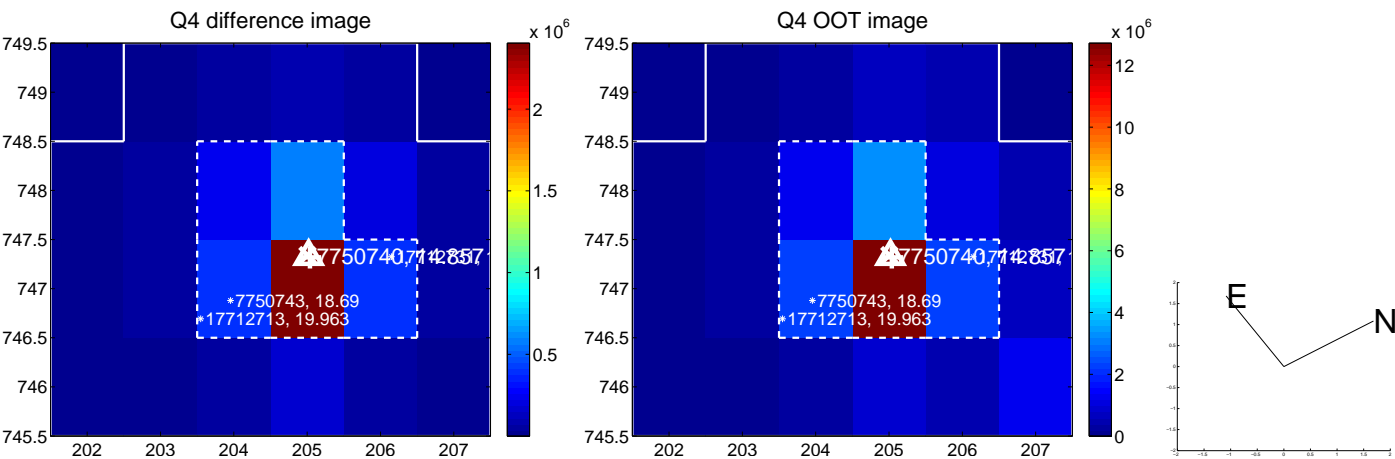
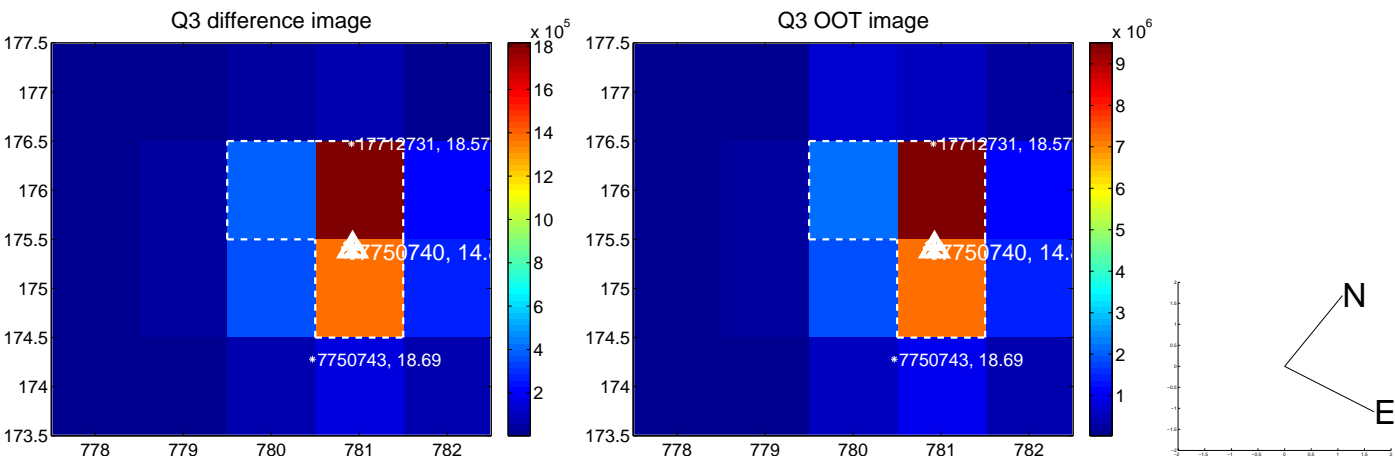
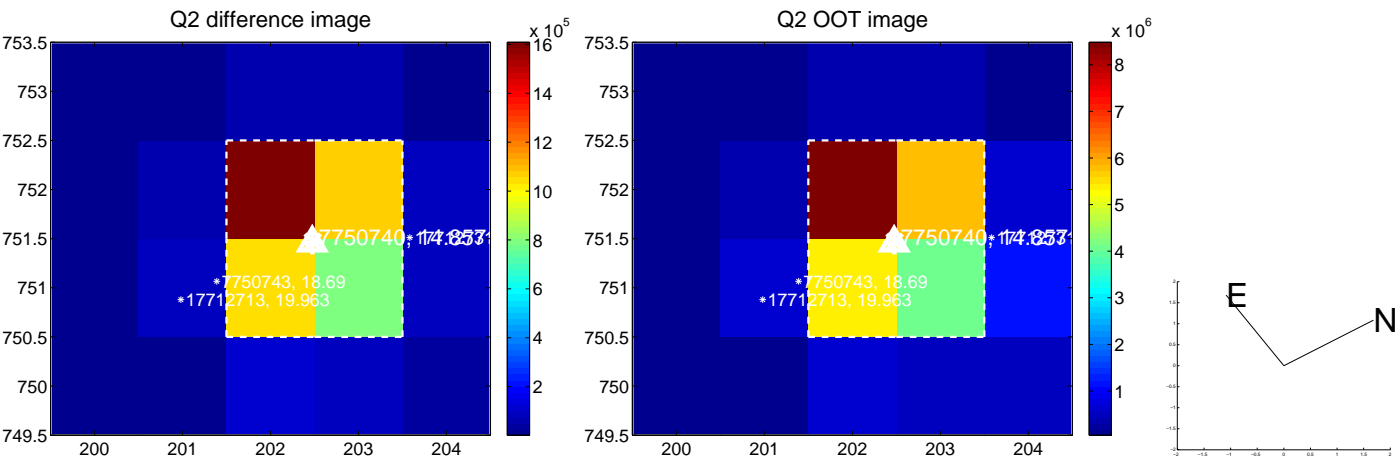
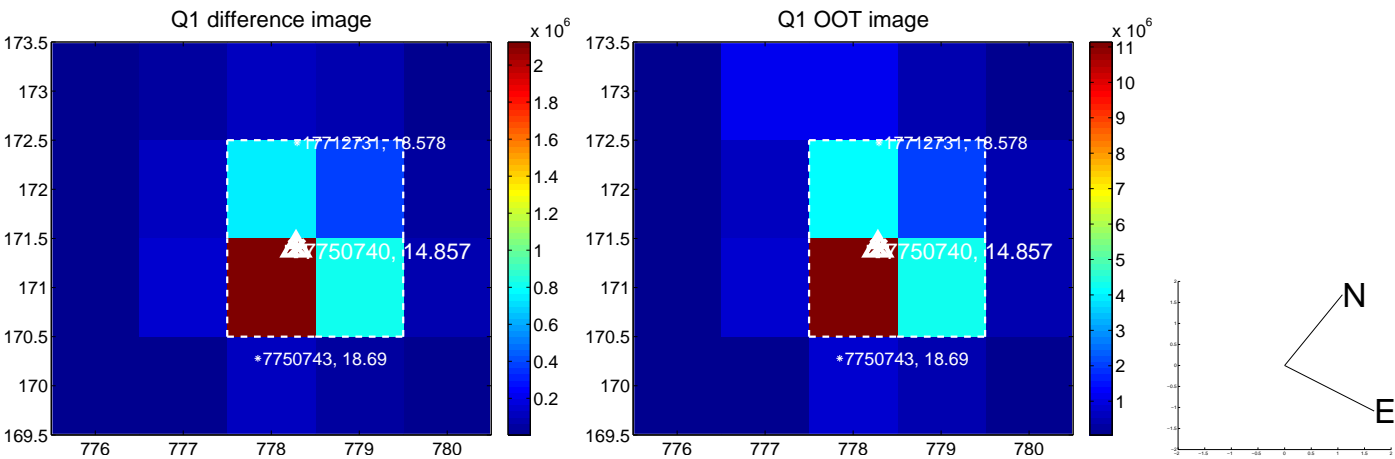
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.021 ± 0.067	0.31	0.017 ± 0.067	-0.012 ± 0.067
PRF-fit source offset from KIC position	0.024 ± 0.068	0.35	-0.023 ± 0.068	0.004 ± 0.067
photometric centroid source offset	0.05 ± 0.00	39.89	-0.04 ± 0.00	-0.03 ± 0.00

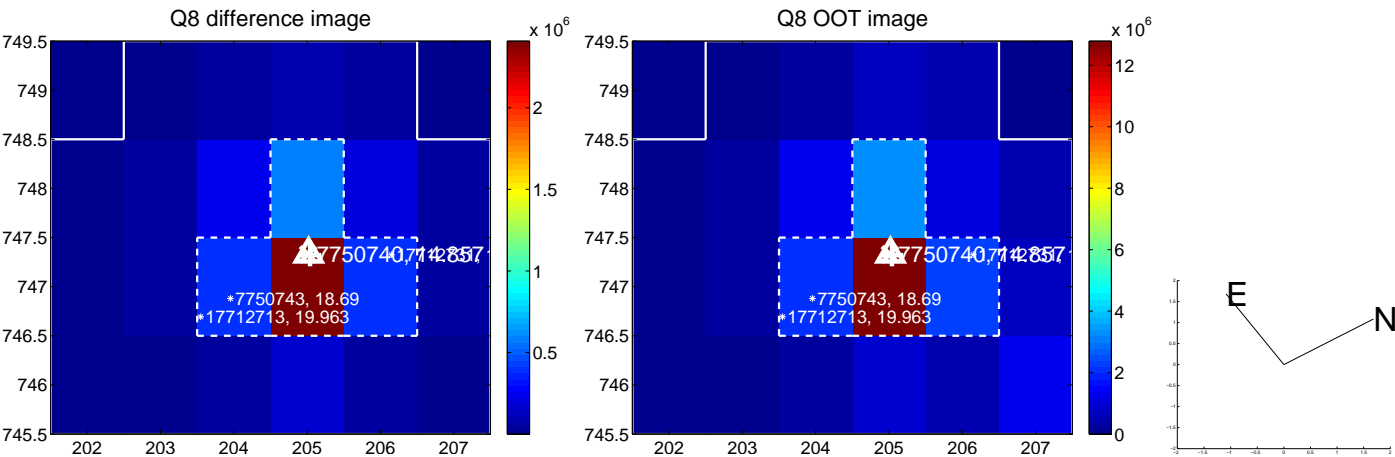
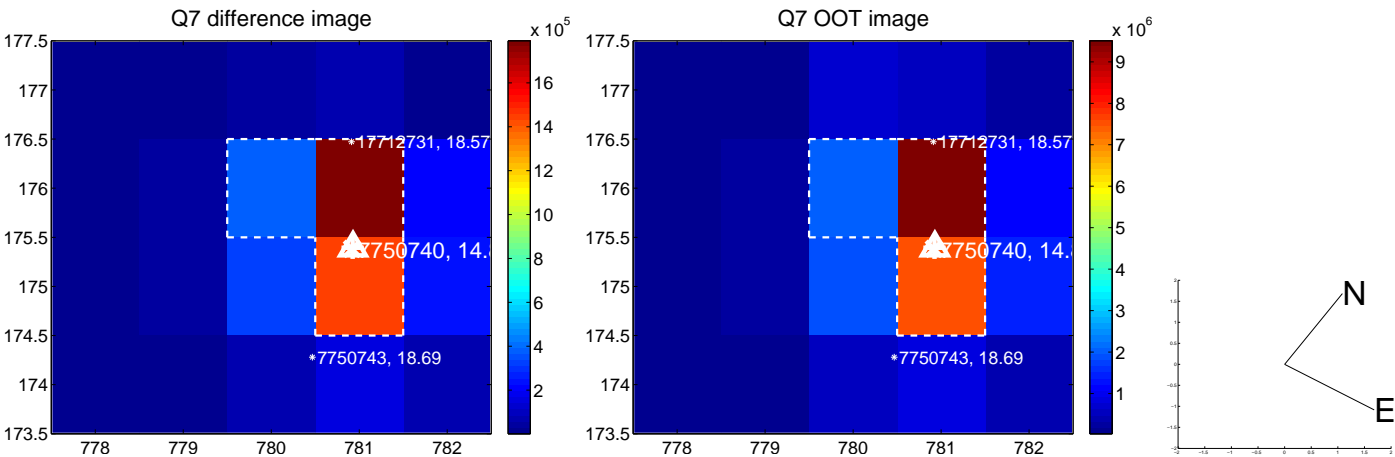
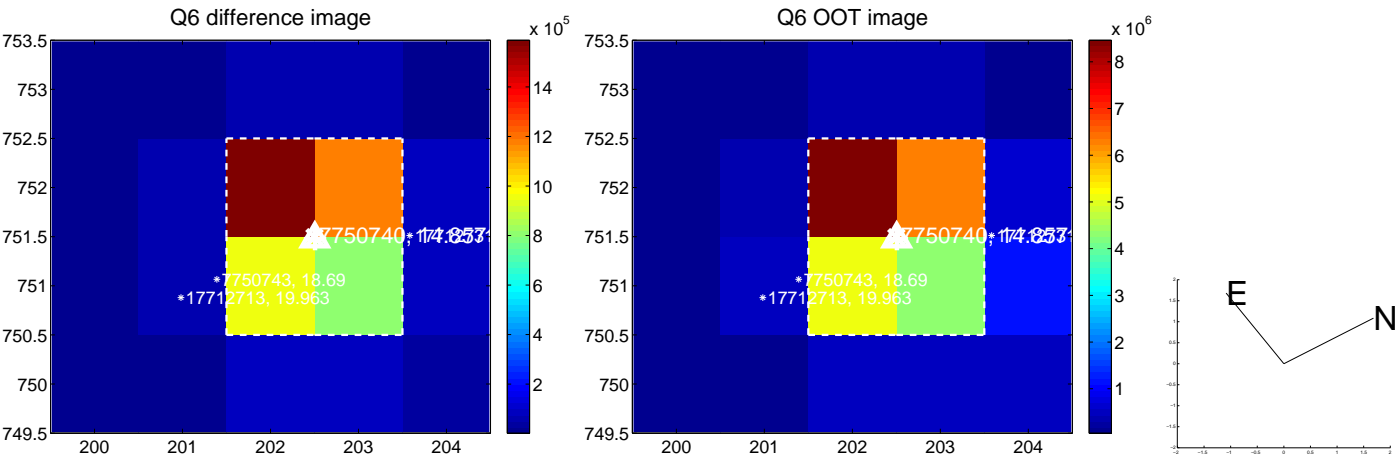
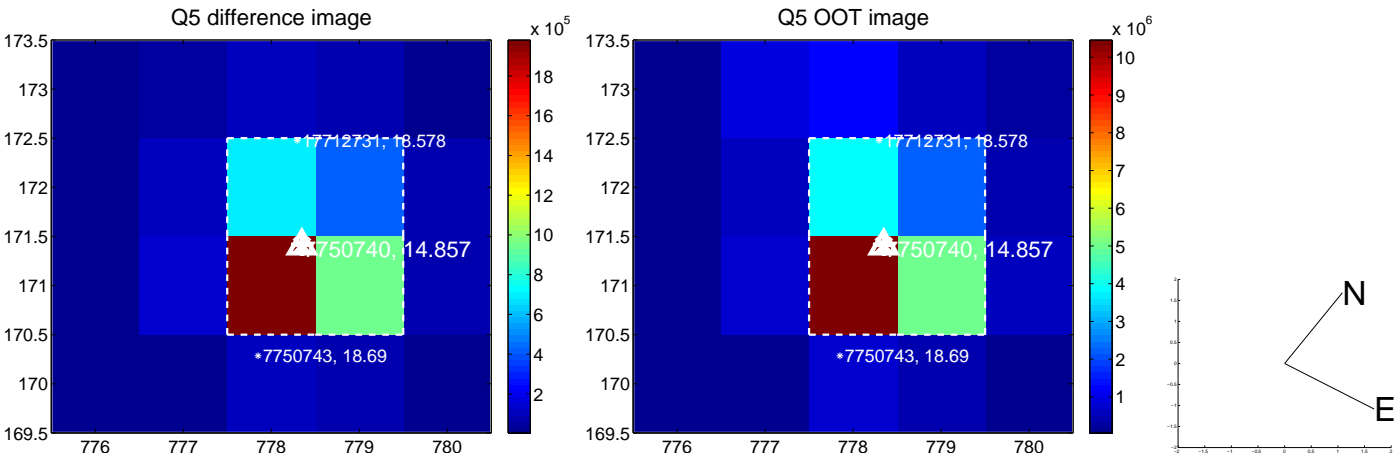


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

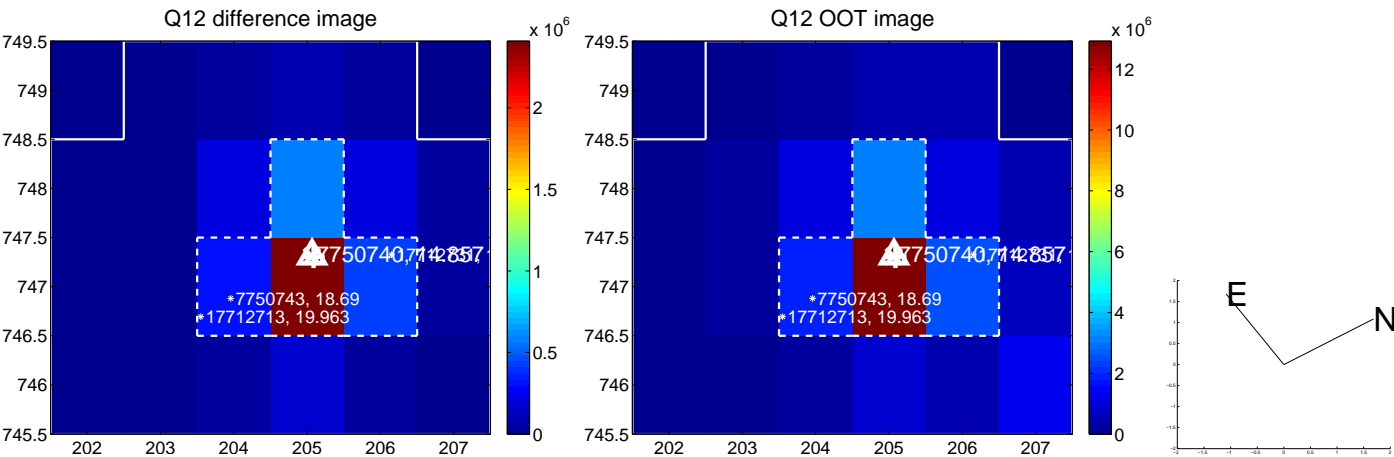
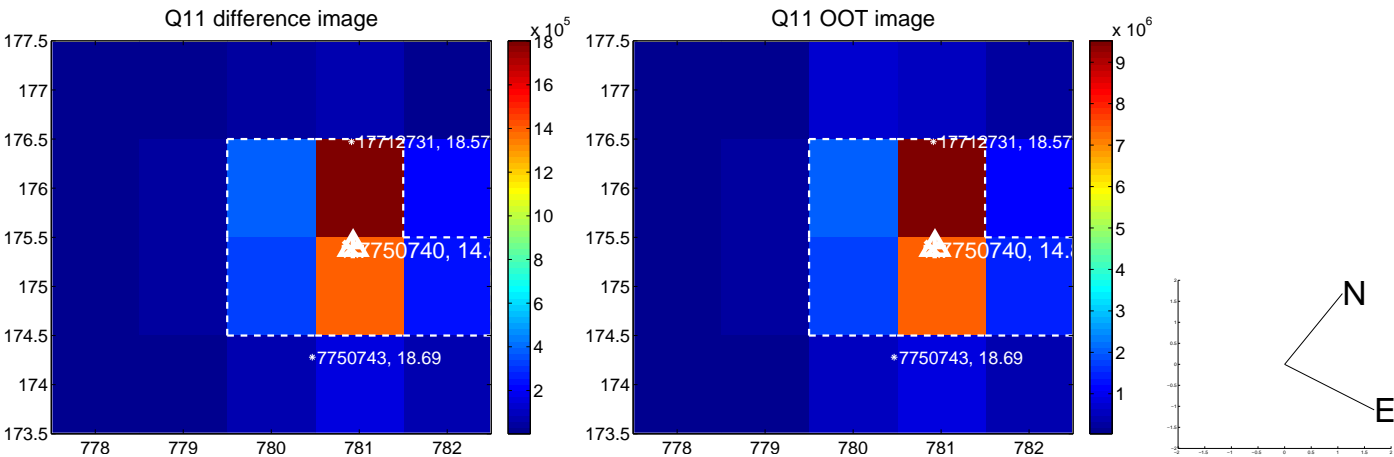
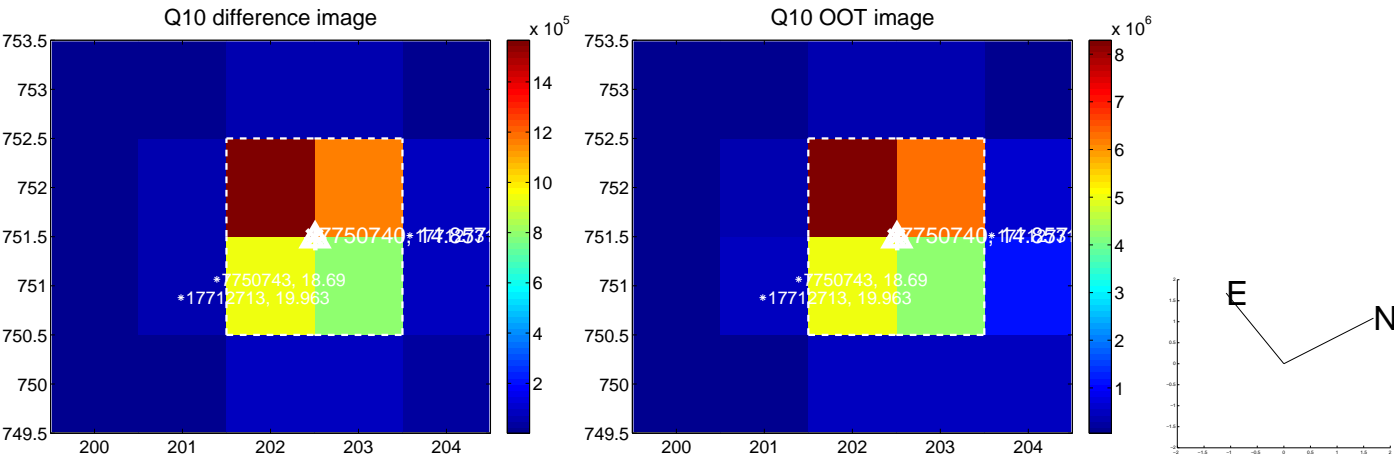
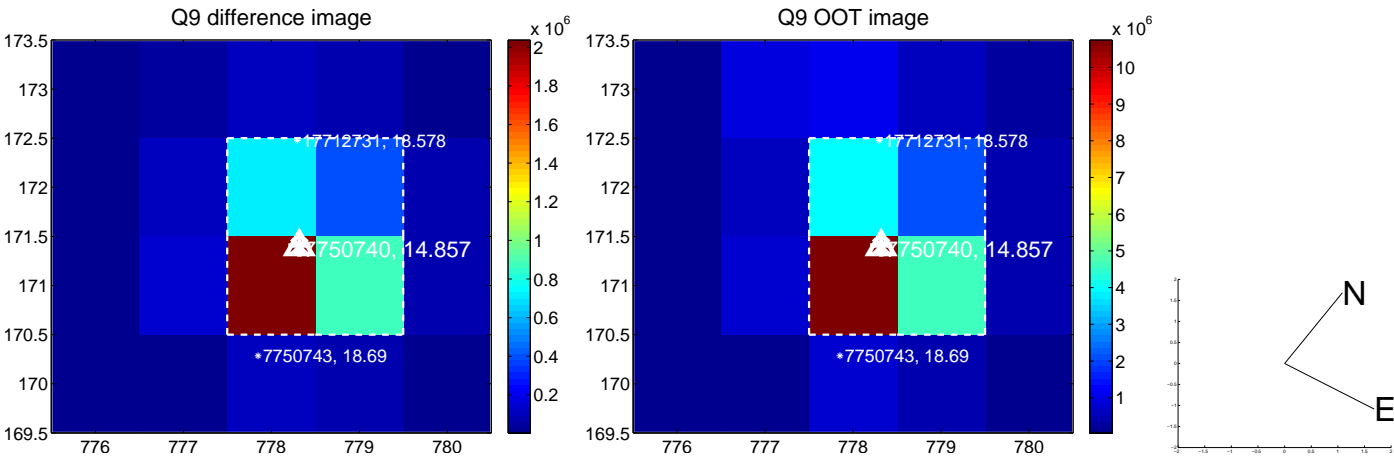
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



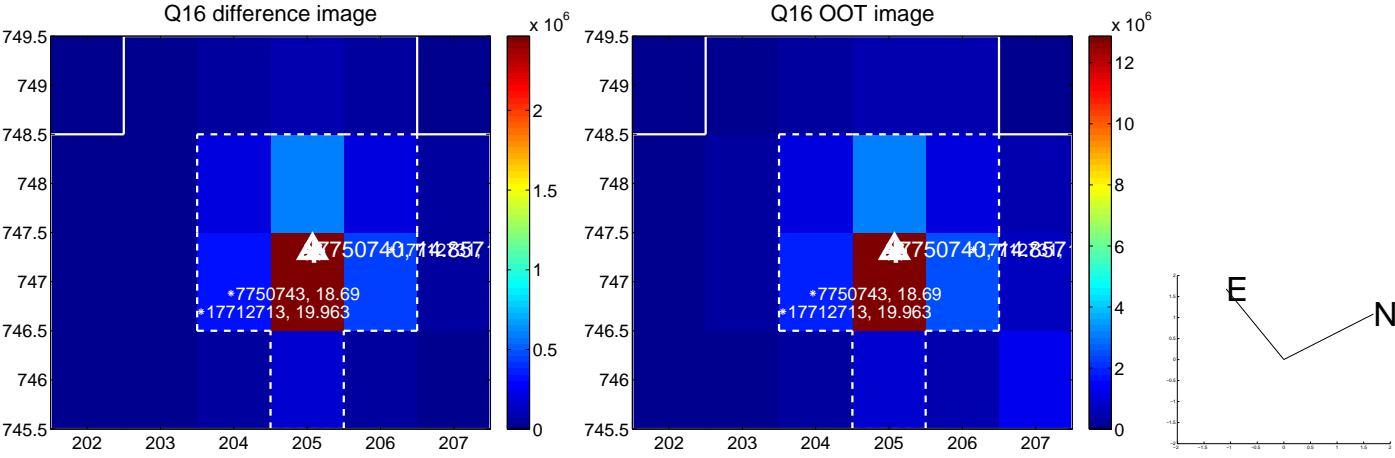
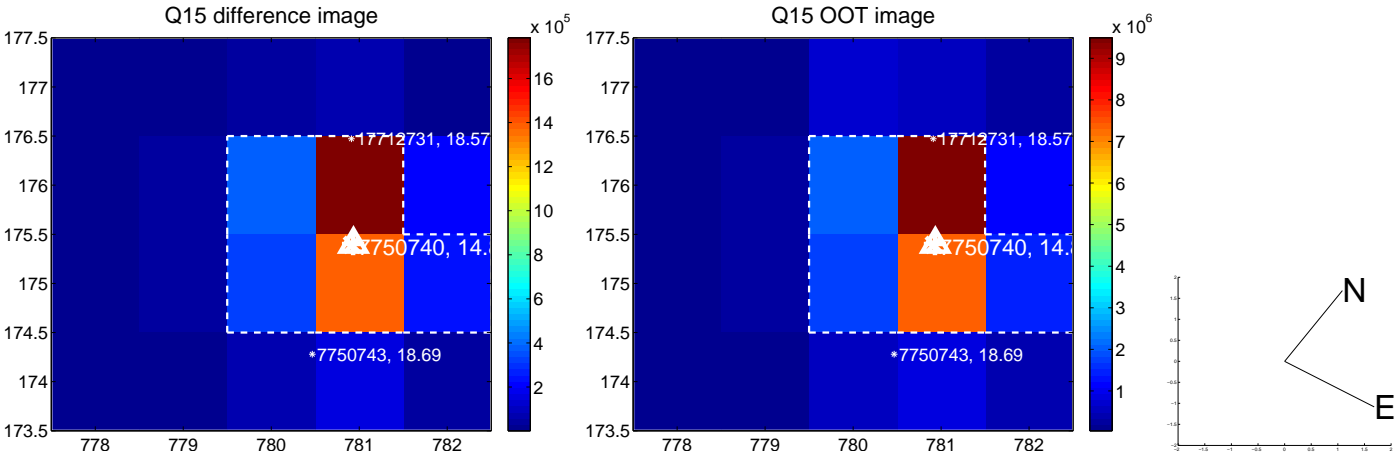
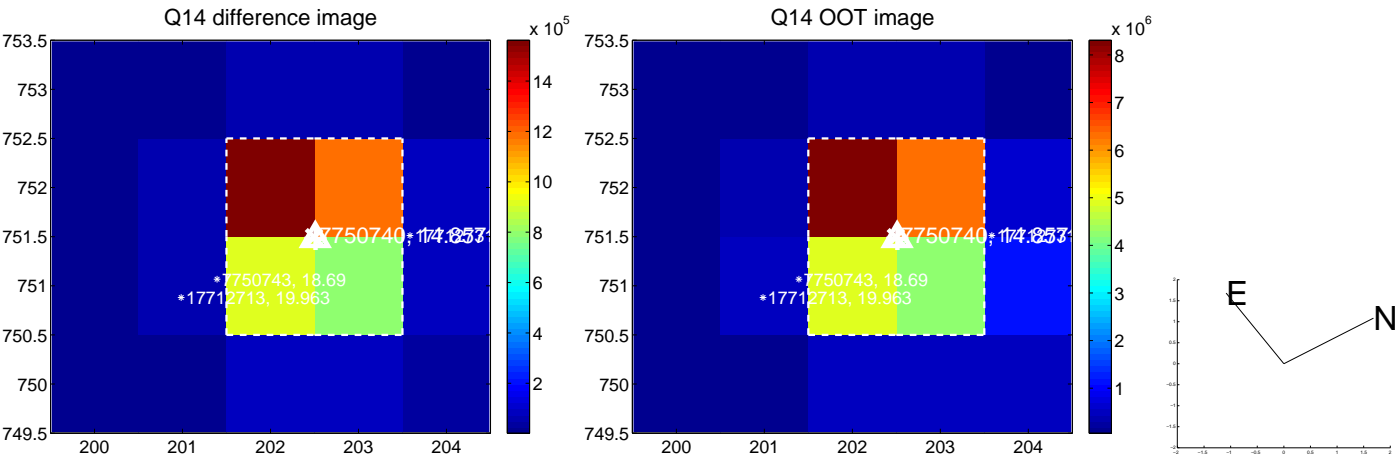
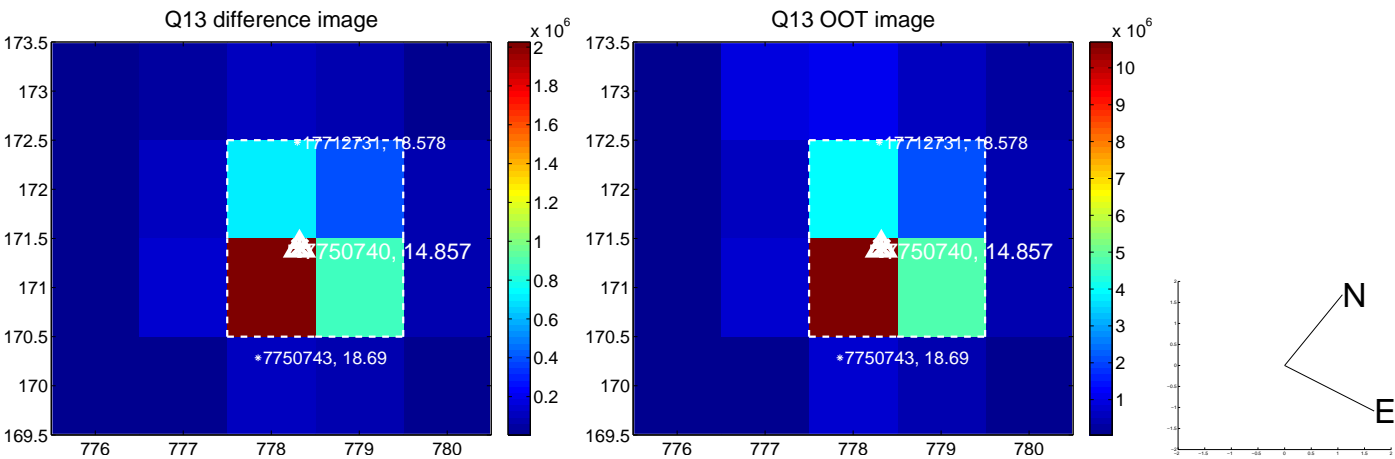
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



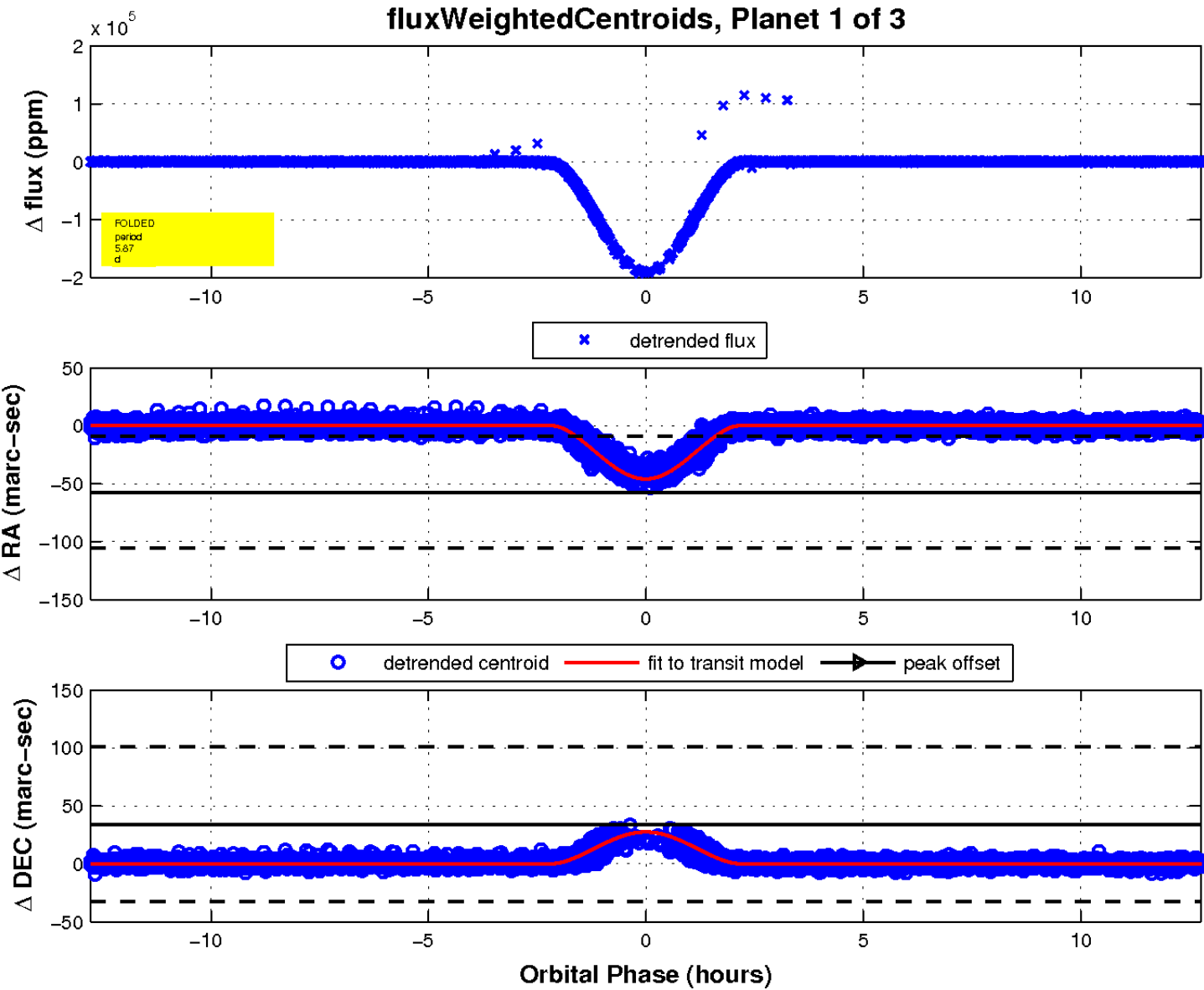
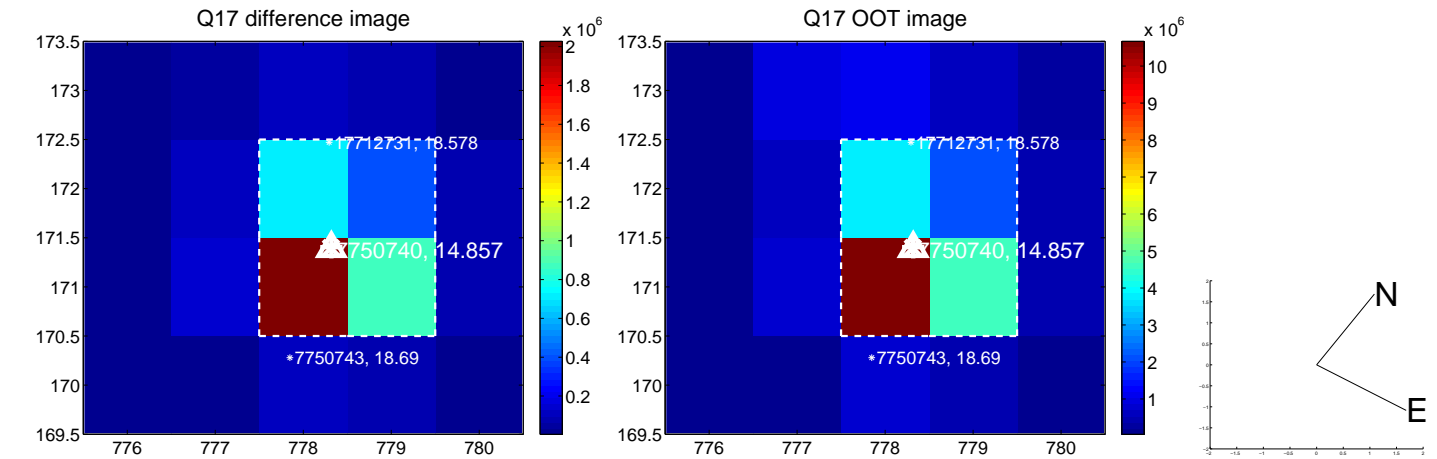
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

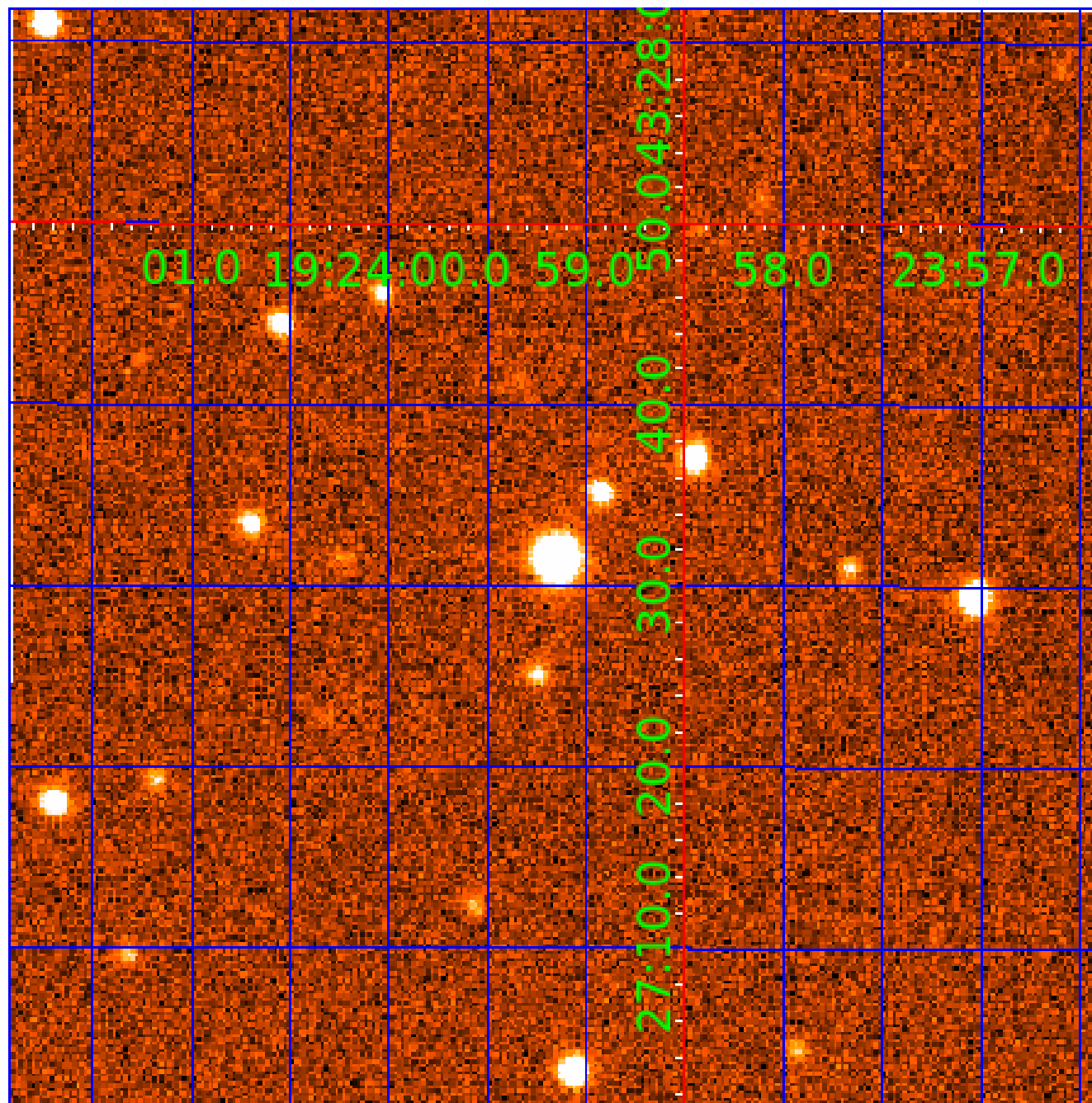


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007750740

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})
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007750740-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
007750740-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007750740-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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 007750740-02

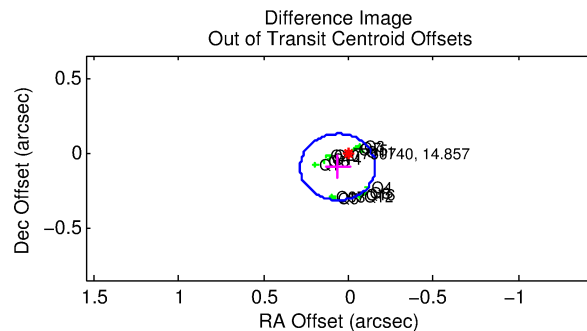
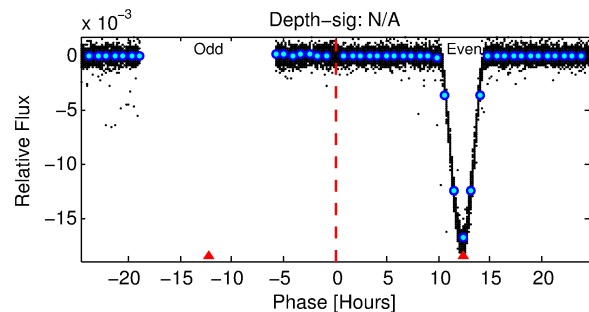
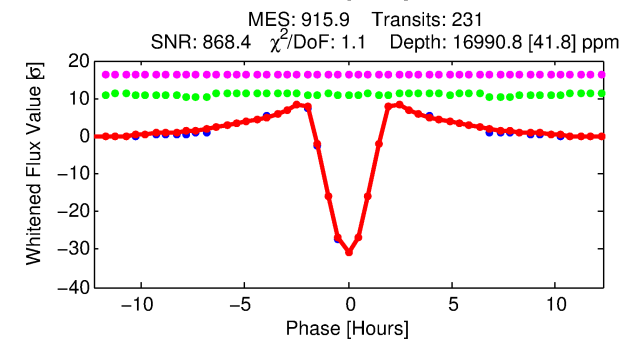
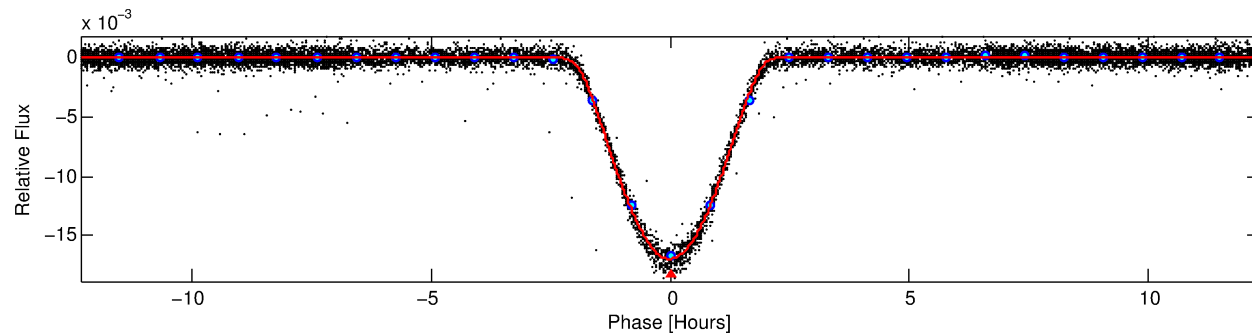
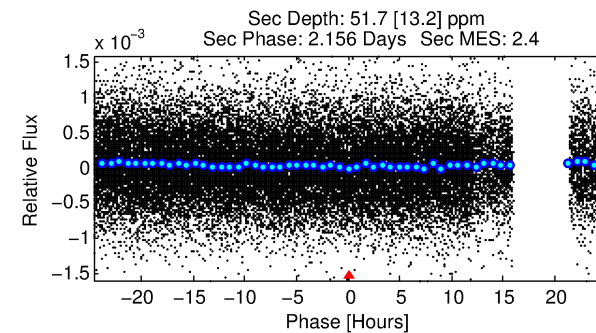
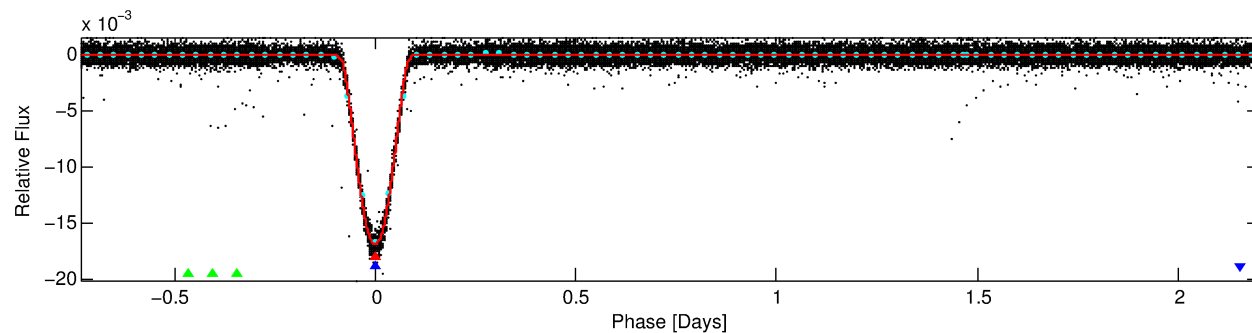
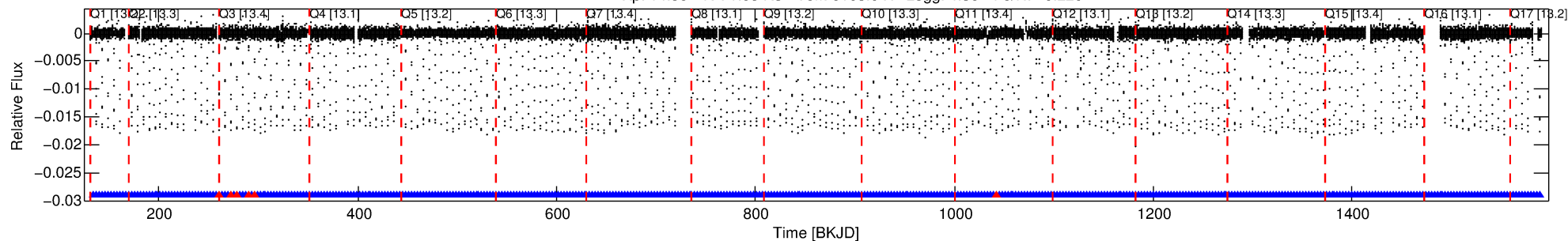
No Significant Match Found

DV One-Page Summary

KIC: 7750740 Candidate: 2 of 3 Period: 2.937 d

KOI: K06162 Corr: No Ephemeris Match

Kp: 14.86 R*: 1.08 Rs Teff: 6103.0 K Logg: 4.36 Fe/H: -0.220



DV Fit Results:

Period = 2.93710 [0.00000] d
Epoch = 134.3194 [0.0001] BKJD
Rp/R* = 0.2073 [0.0131]
a/R* = 3.87 [0.02]
b = 1.00 [0.02]
Seff = 912.56 [361.33]
Teq = 1401 [139] K
Rp = 24.50 [7.71] Re
a = 0.0400 [0.0103] AU
Ag = 0.08 [0.04] [-26.16σ]
Teffp = 1136 [90] K [-1.60σ]

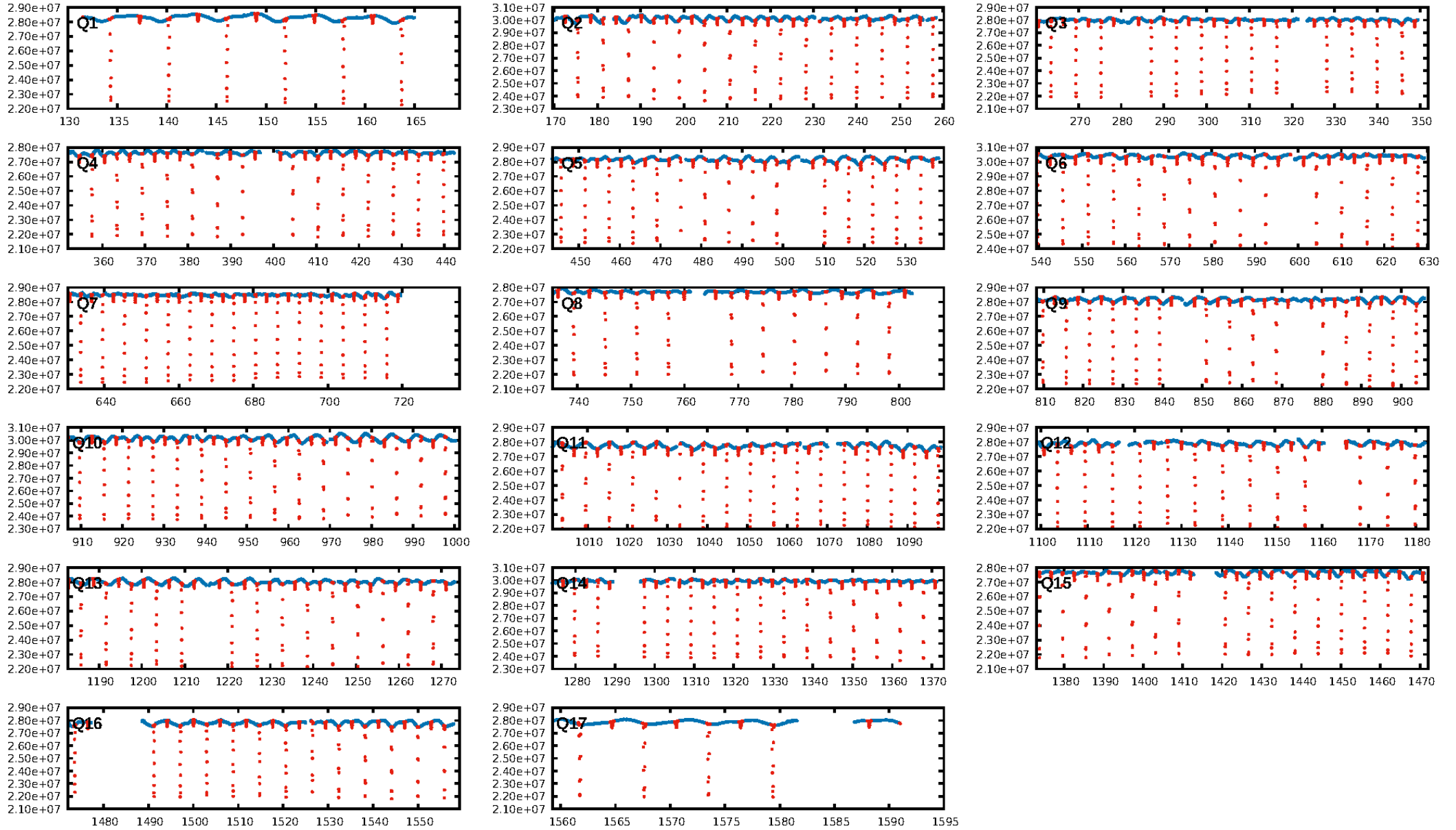
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [11.91σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.97 [216/222]
GhostDiagnostic-chr: 2.06
Centroid-sig: 0.0%
Centroid-so: 0.131 arcsec [13.81σ]
OotOffset-rm: 0.115 arcsec [1.56σ]
KicOffset-rm: 0.083 arcsec [1.11σ]
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]

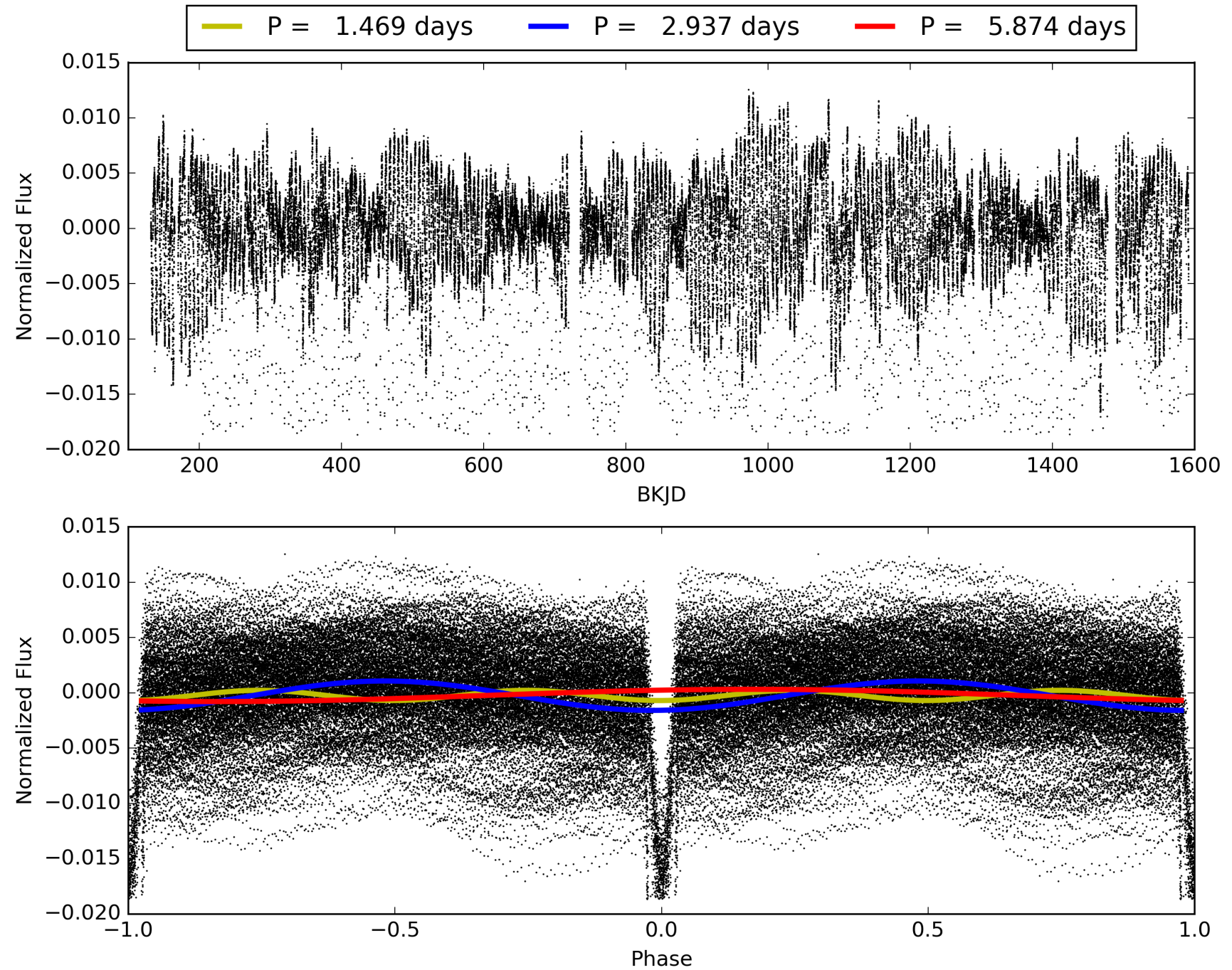
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007750740-02, PDC Light Curves

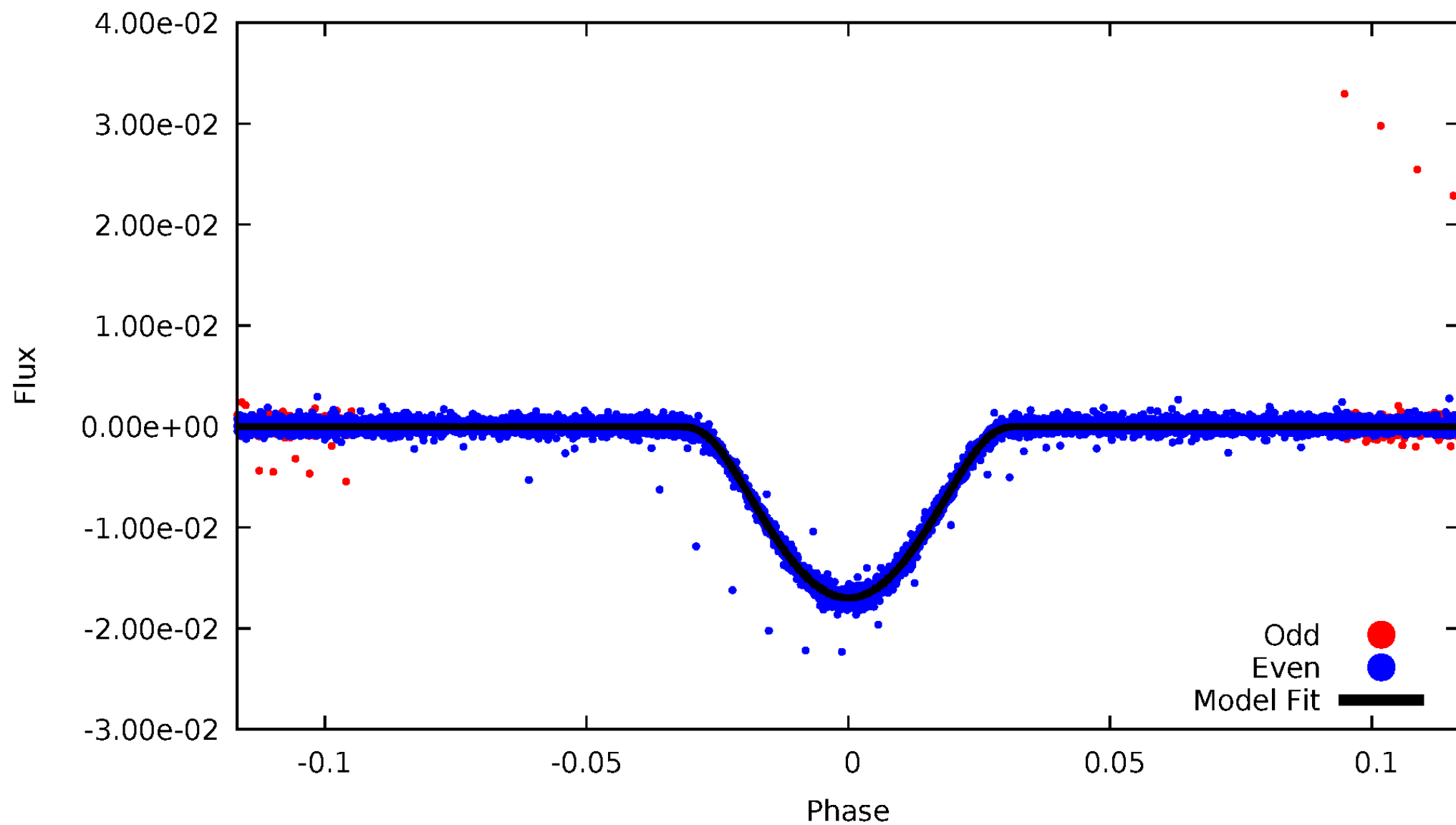


TCE 007750740-02



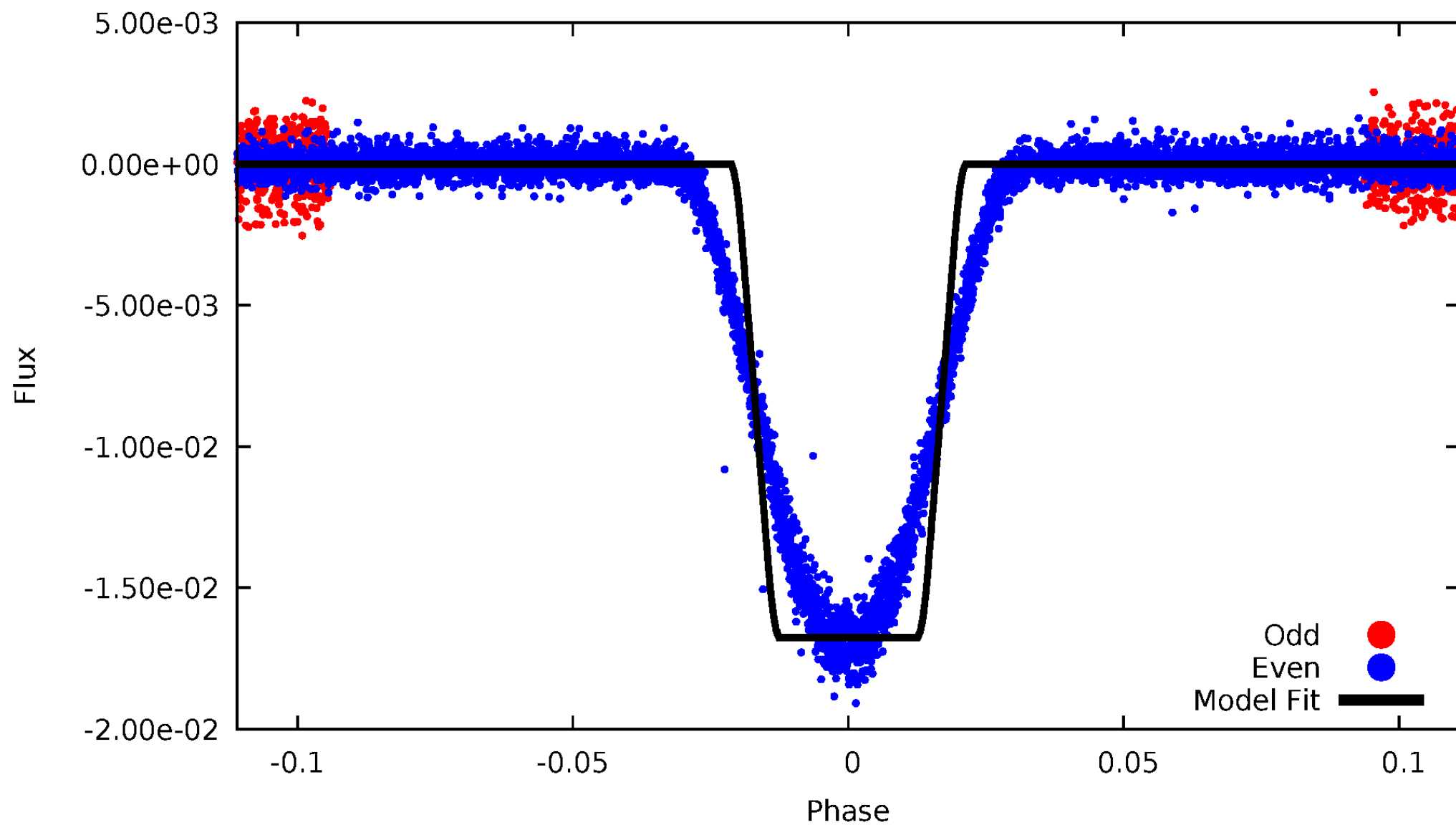
DV Odd/Even

TCE 007750740-02



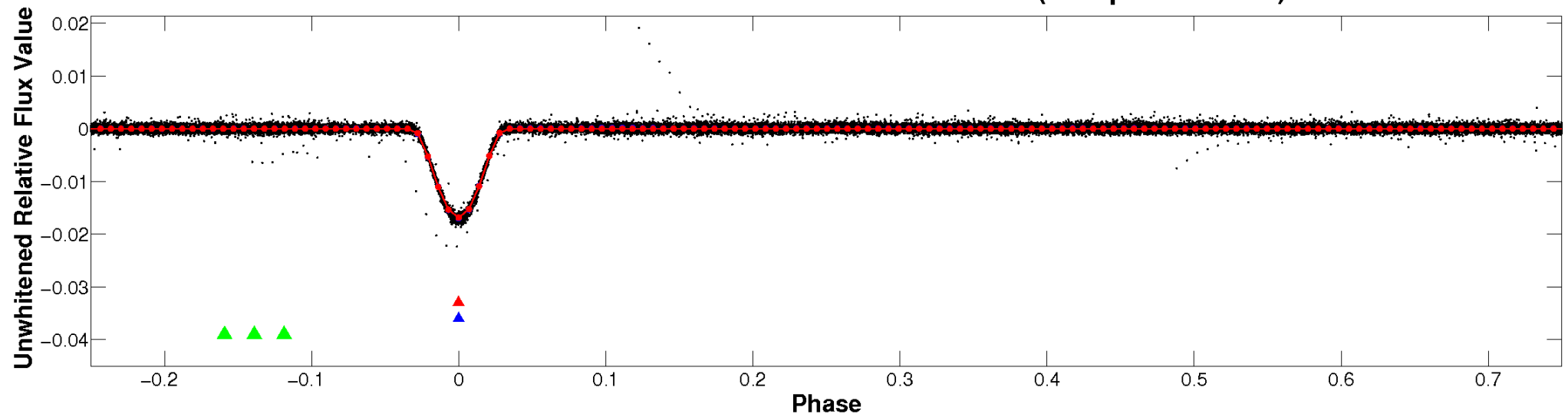
ALT Odd/Even

TCE 007750740-02

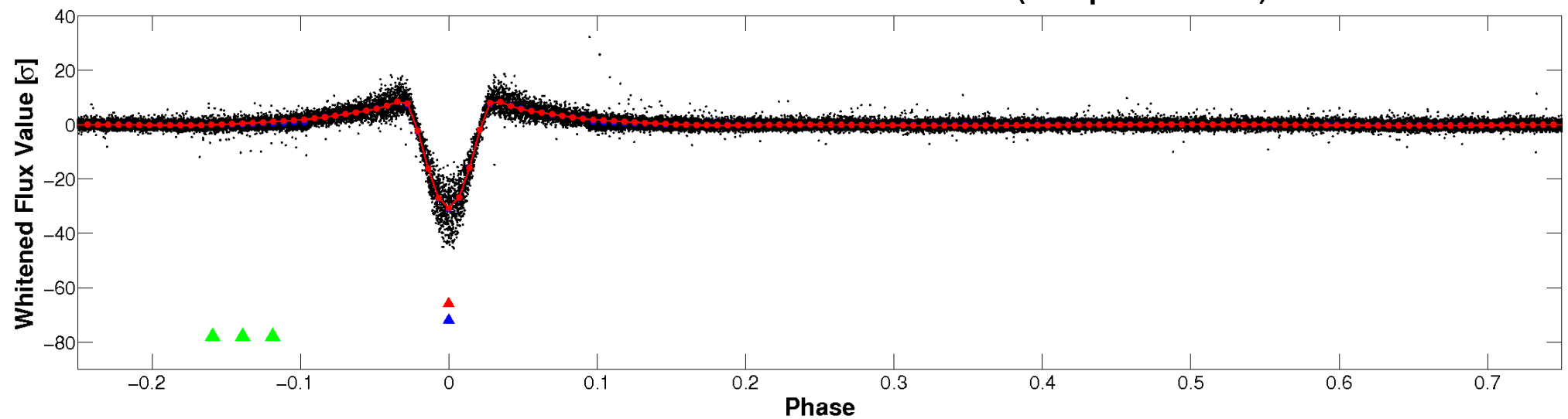


Non-Whitened Vs. Whitened Light Curve

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

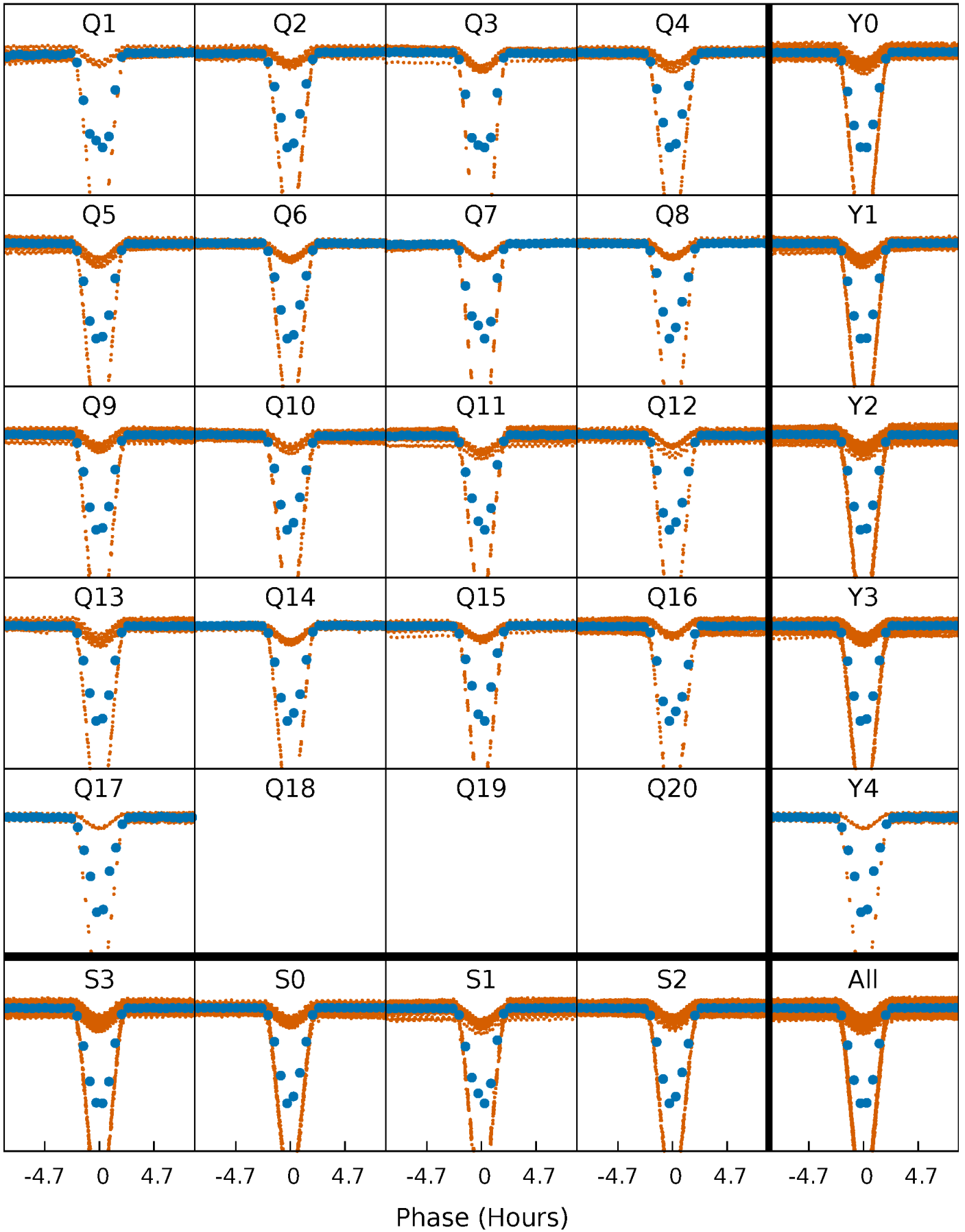


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



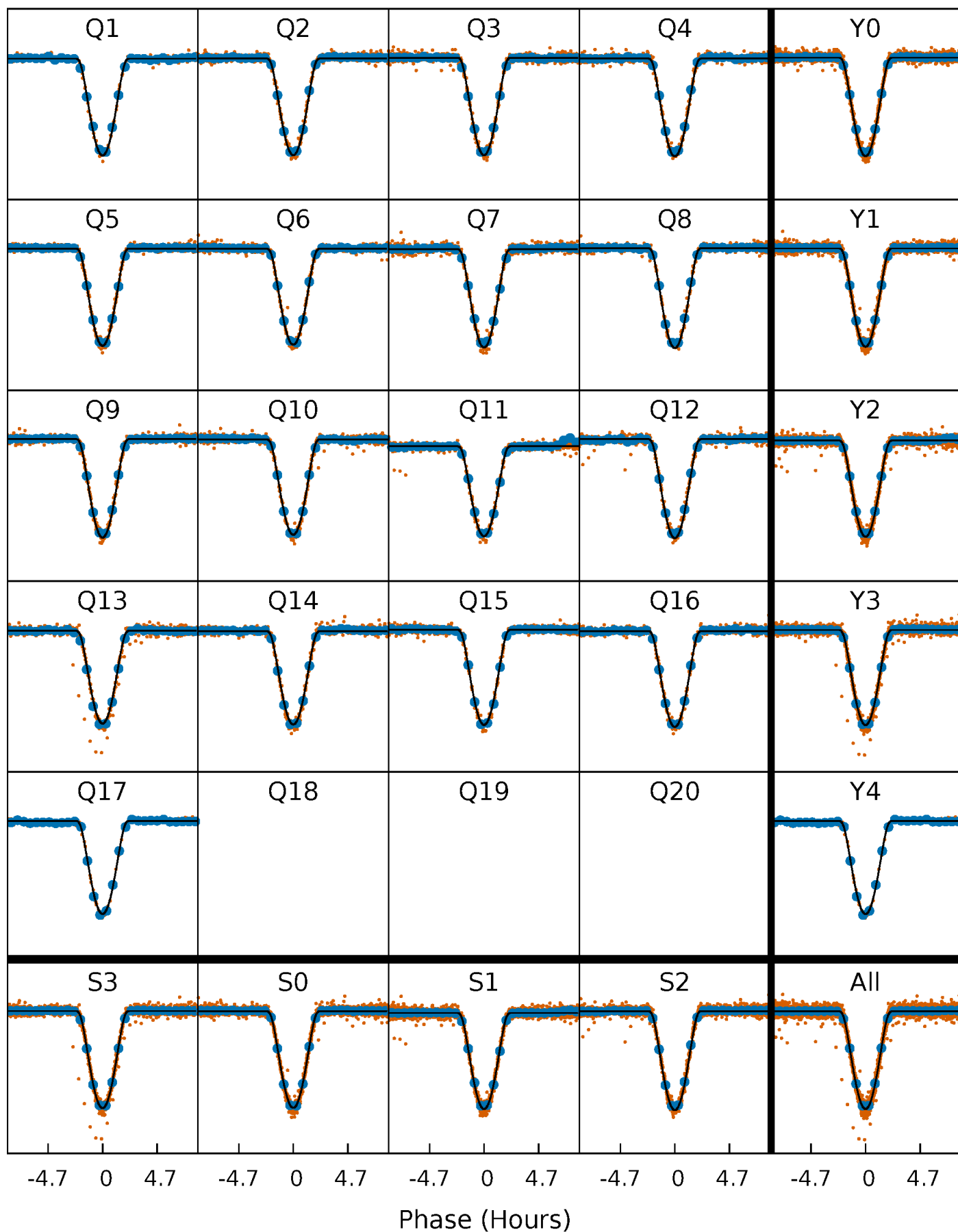
PDC Quarter-Phased Transit Curves

TCE 007750740-02 P= 2.937097 Days $T_0=134.319372$ (BKJD)



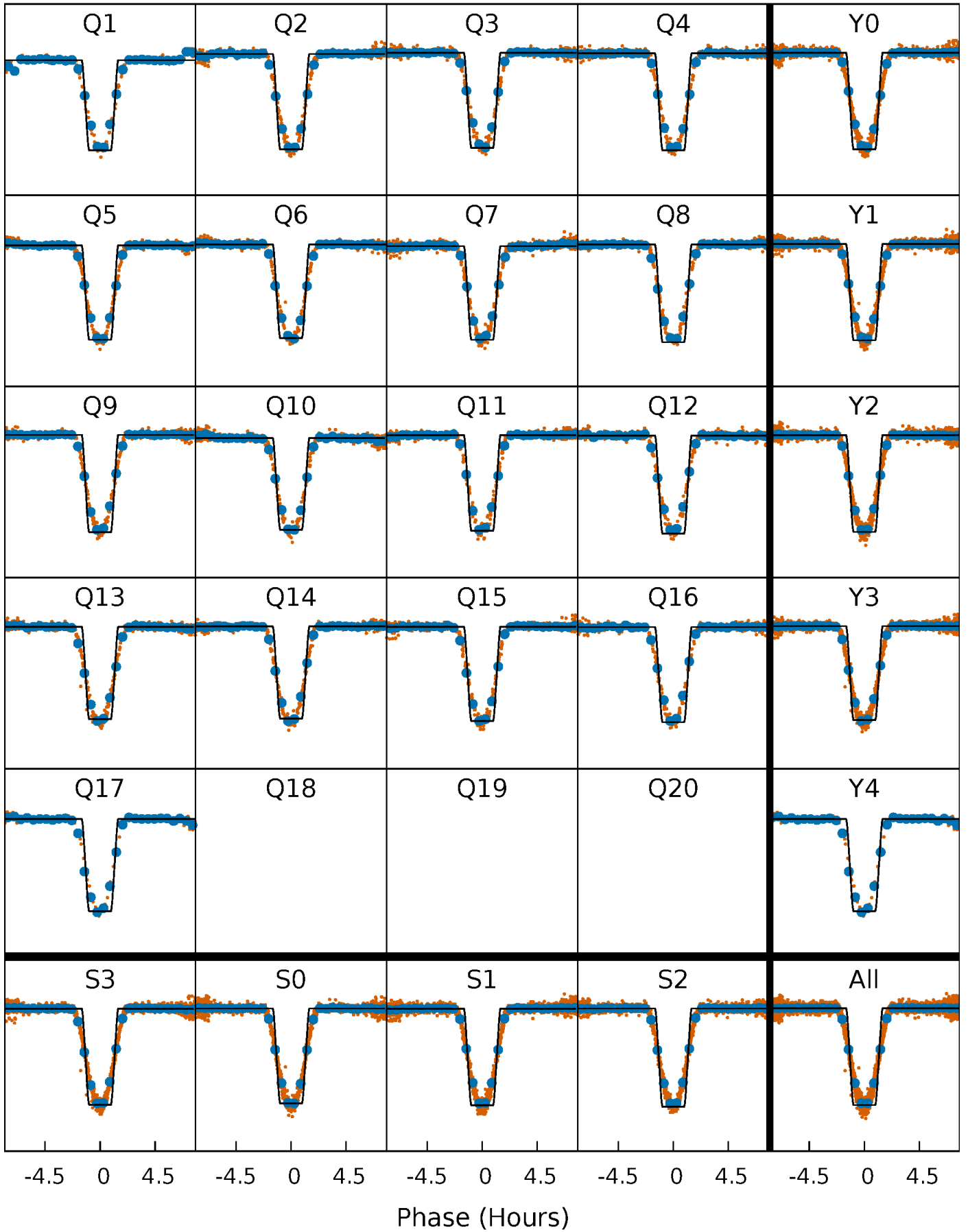
DV Quarter-Phased Transit Curves

TCE 007750740-02 P= 2.937097 Days $T_0=134.319372$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

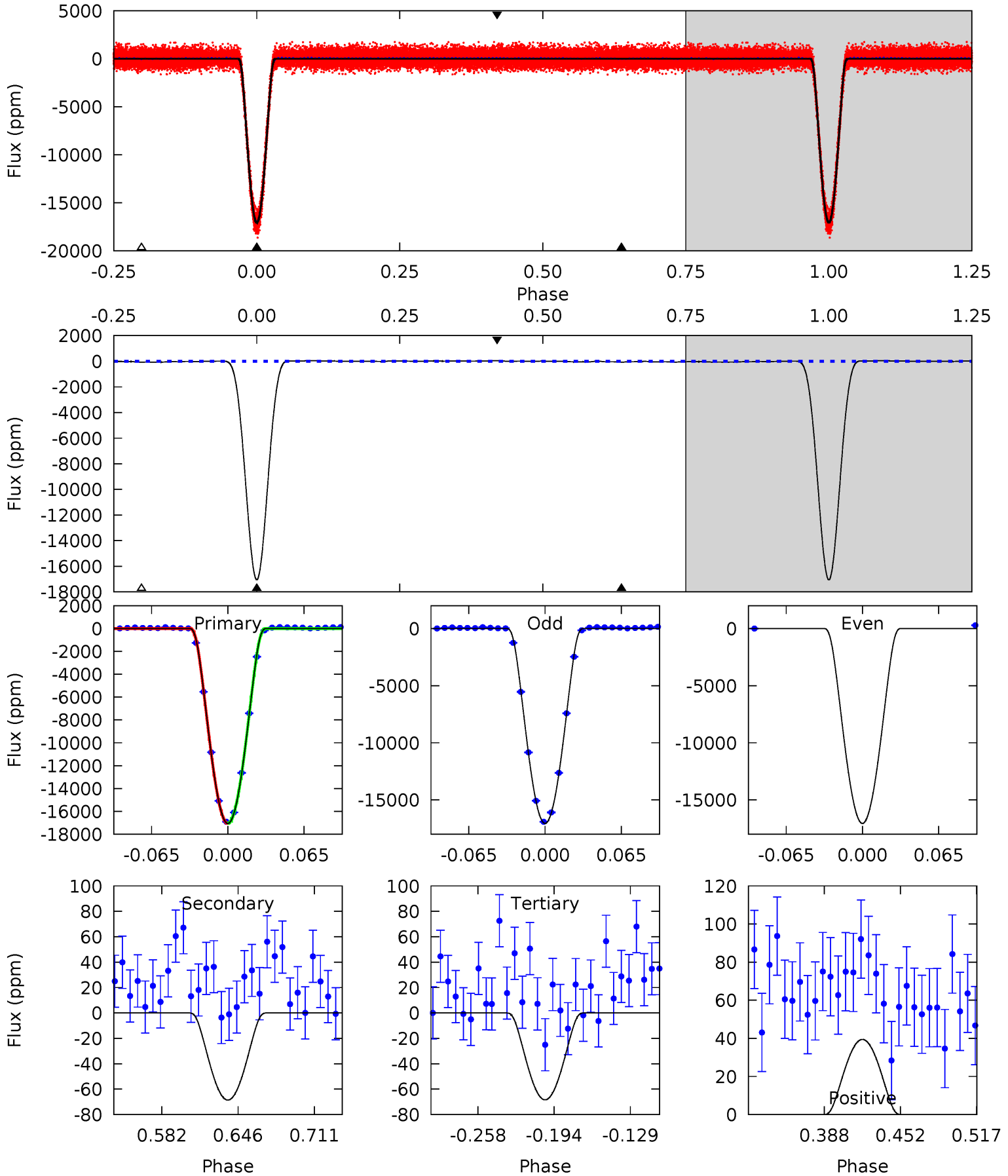
TCE 007750740-02 P= 2.937107 Days $T_0=134.317043$ (BKJD)



DV Model-Shift Uniqueness Test

007750740-02, P = 2.937097 Days, E = 131.382275 Days

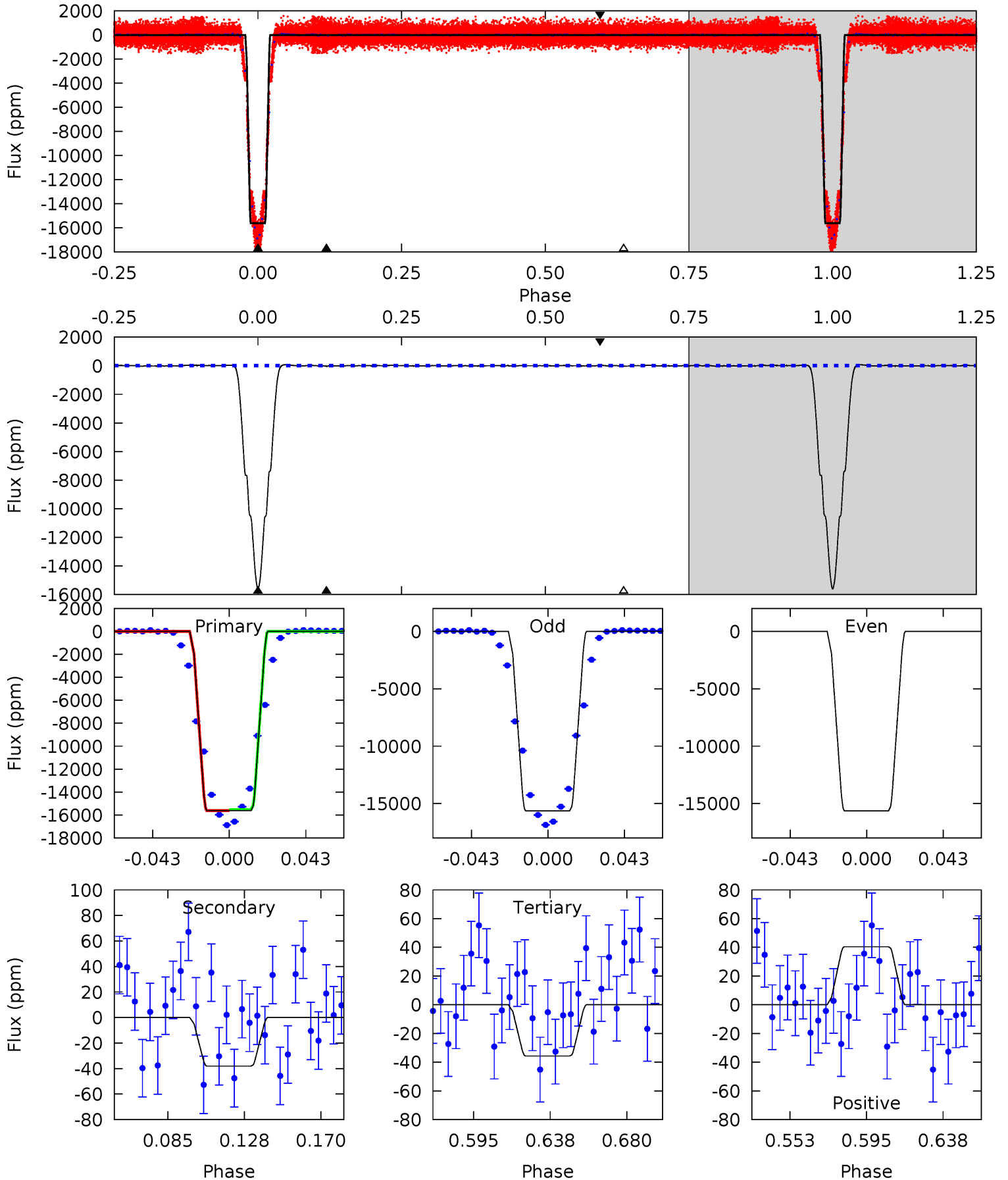
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1793	7.21	7.19	4.15	4.66	1.85	3.02	1785	1788	0.02	3.06	0	1.00	0.00	0.50



Alt Model-Shift Uniqueness Test

007750740-02, P = 2.937107 Days, E = 131.379936 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1327	3.24	3.03	3.44	4.74	2.03	1.28	1324	1323	0.20	-0.20	0	1.00	0.00	3.21



Stellar Parameters For KIC 007750740

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6103^{+190}_{-212}	$4.363^{+0.124}_{-0.201}$	$-0.220^{+0.300}_{-0.300}$	$1.083^{+0.334}_{-0.180}$	$0.987^{+0.153}_{-0.111}$	$1.094^{+0.633}_{-0.540}$
	+3%/-3%	+3%/-5%	+136%/-136%	+31%/-17%	+16%/-11%	+58%/-49%
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 007750740-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-69 ± 10	$24.84^{+4.27}_{-3.12}$	1974^{+147}_{-123}	-2369^{+106}_{-114}	$0.096^{+0.032}_{-0.028}$
Alt.	-38 ± 12	$15.57^{+3.22}_{-2.14}$	1977^{+146}_{-128}	-2304^{+181}_{-146}	$0.133^{+0.072}_{-0.052}$

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

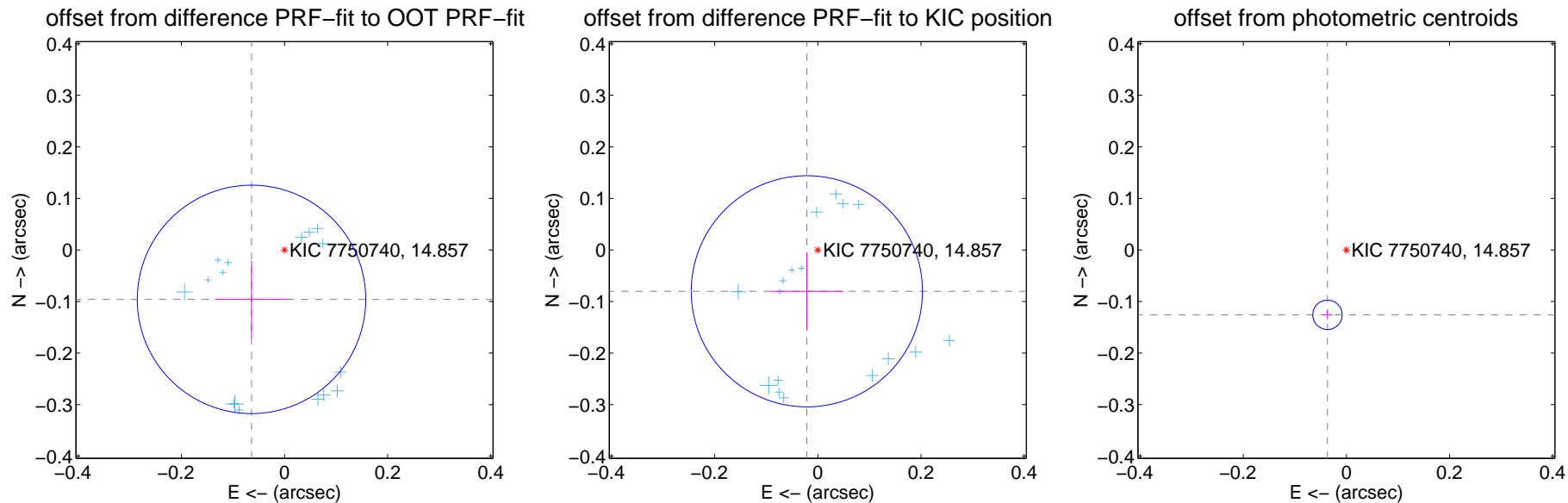
DV Centroid Data

Supplemental centroid analysis for 007750740-02. Kepler magnitude: 14.86. Transit SNR 868.38

There are 17 quarters with good PRF difference image offsets

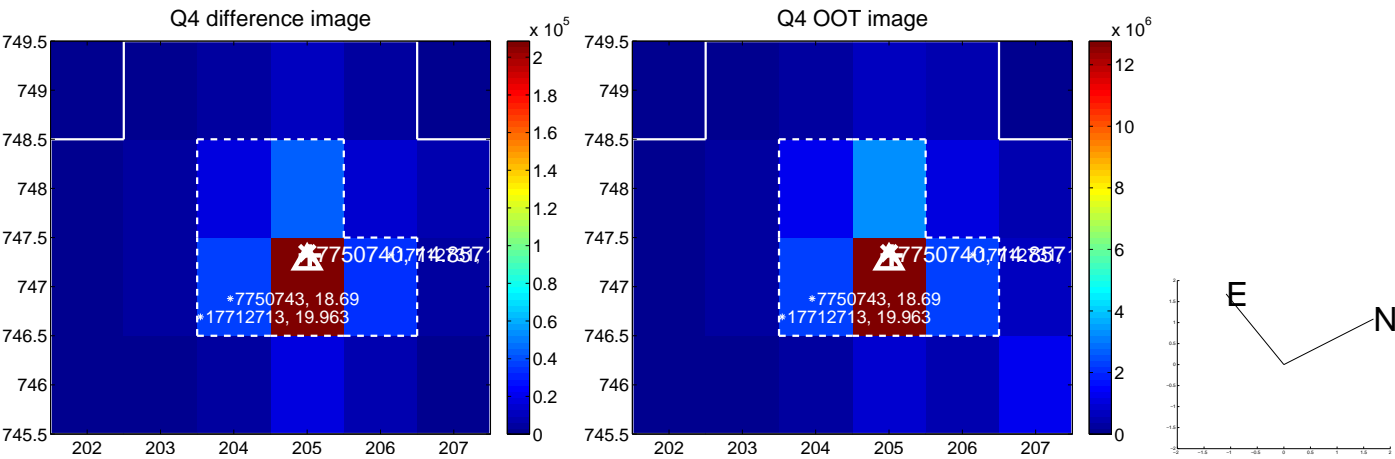
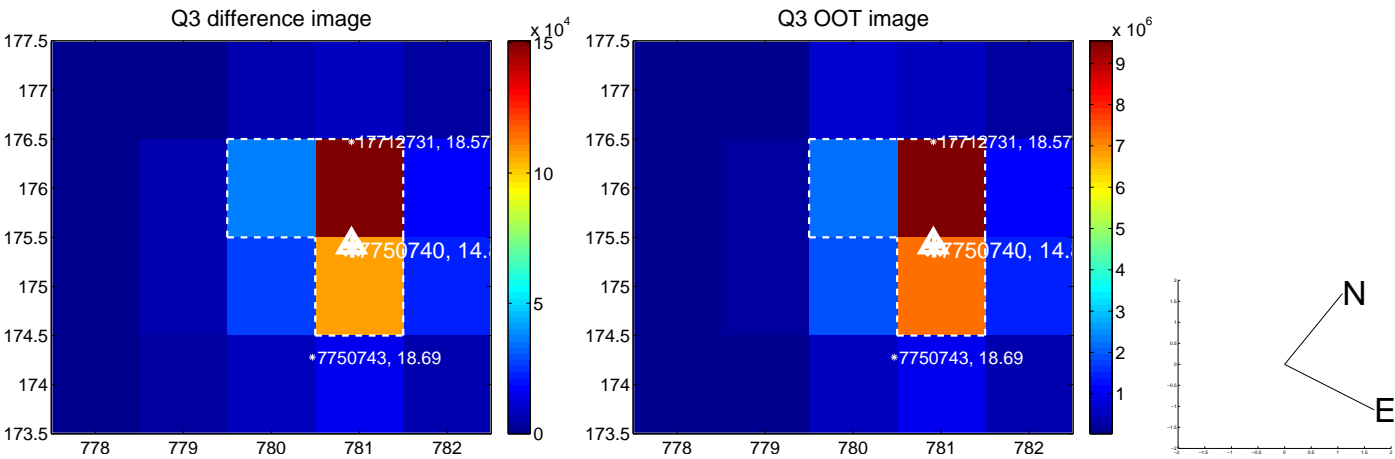
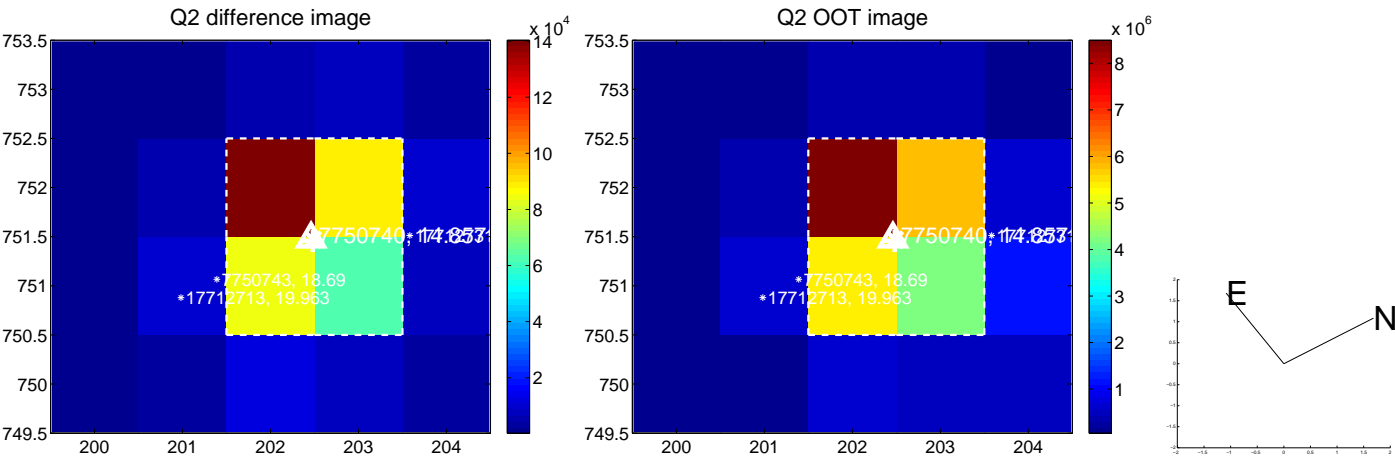
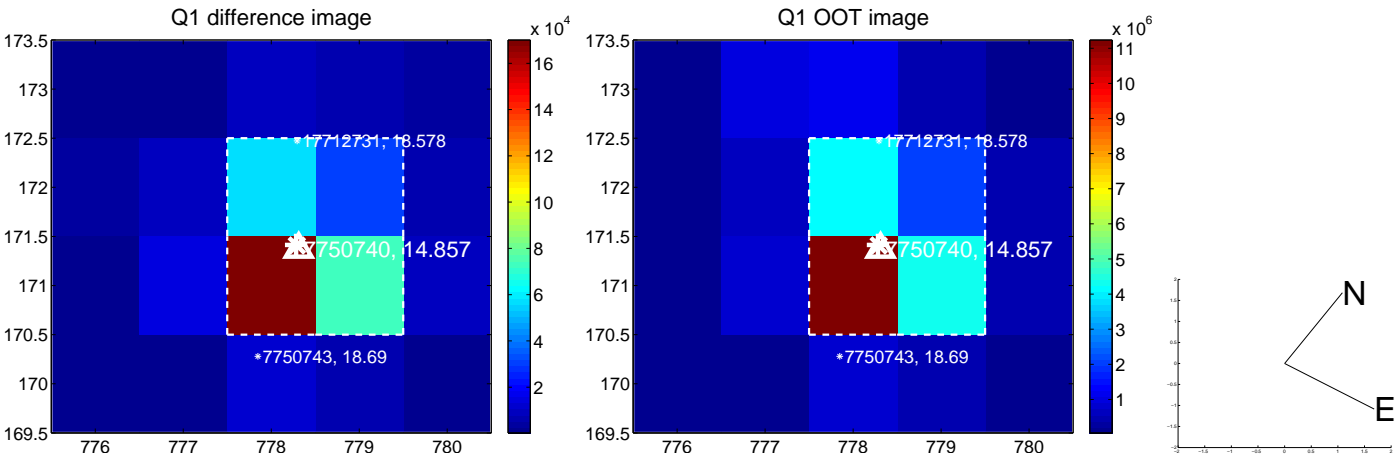
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.115 ± 0.074	1.56	0.064 ± 0.071	-0.096 ± 0.075
PRF-fit source offset from KIC position	0.083 ± 0.075	1.11	0.021 ± 0.071	-0.080 ± 0.075
photometric centroid source offset	0.13 ± 0.01	13.81	0.04 ± 0.01	-0.13 ± 0.01

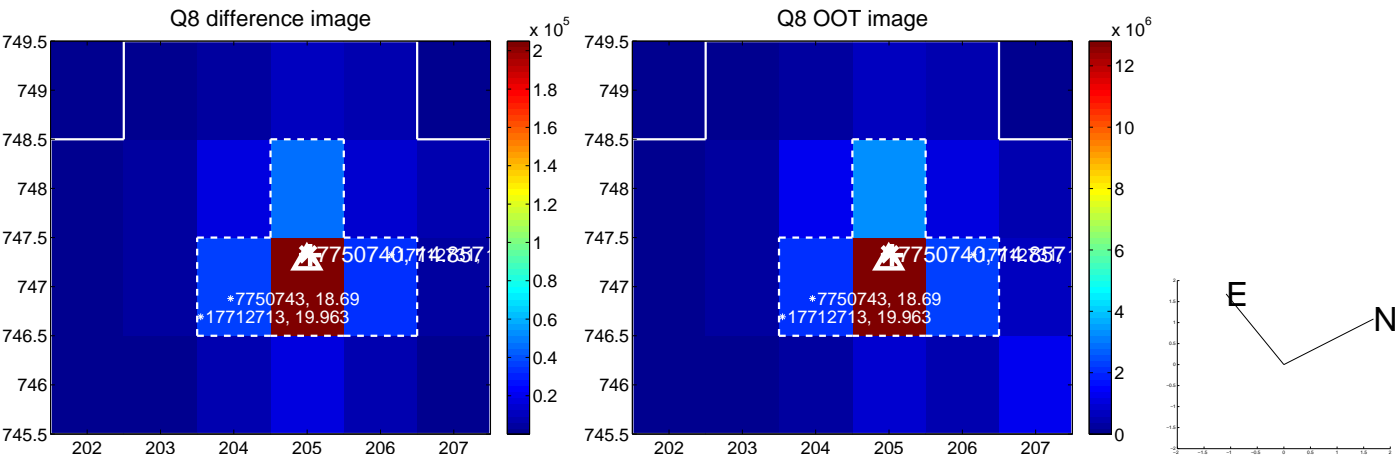
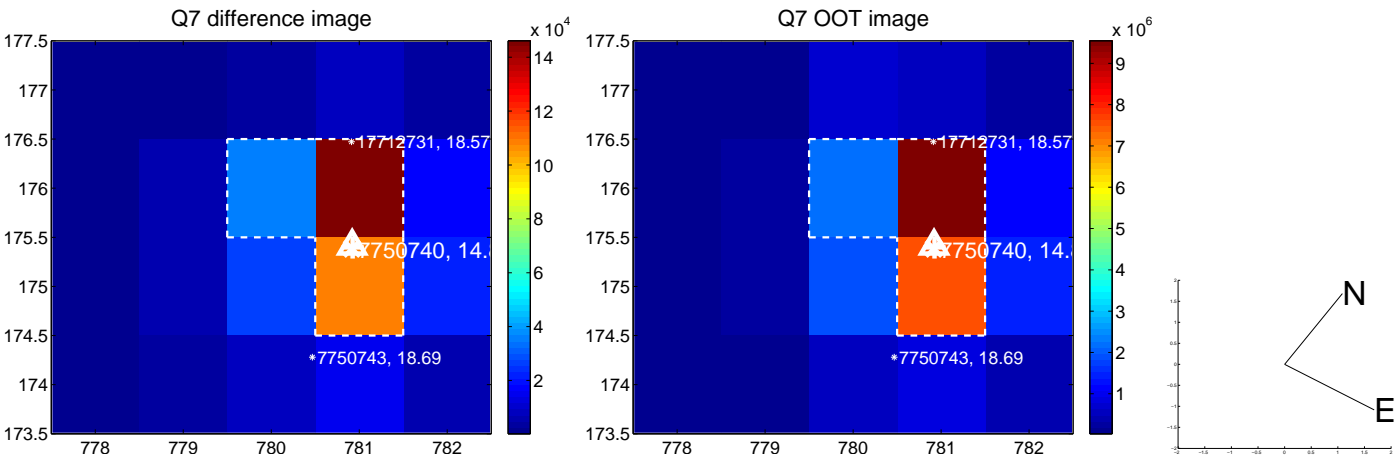
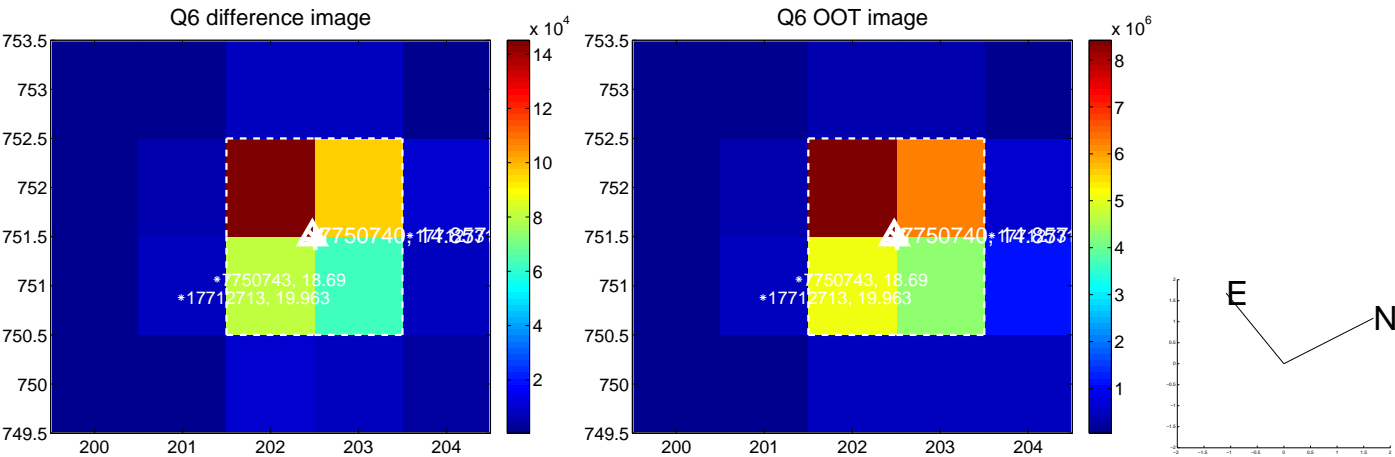
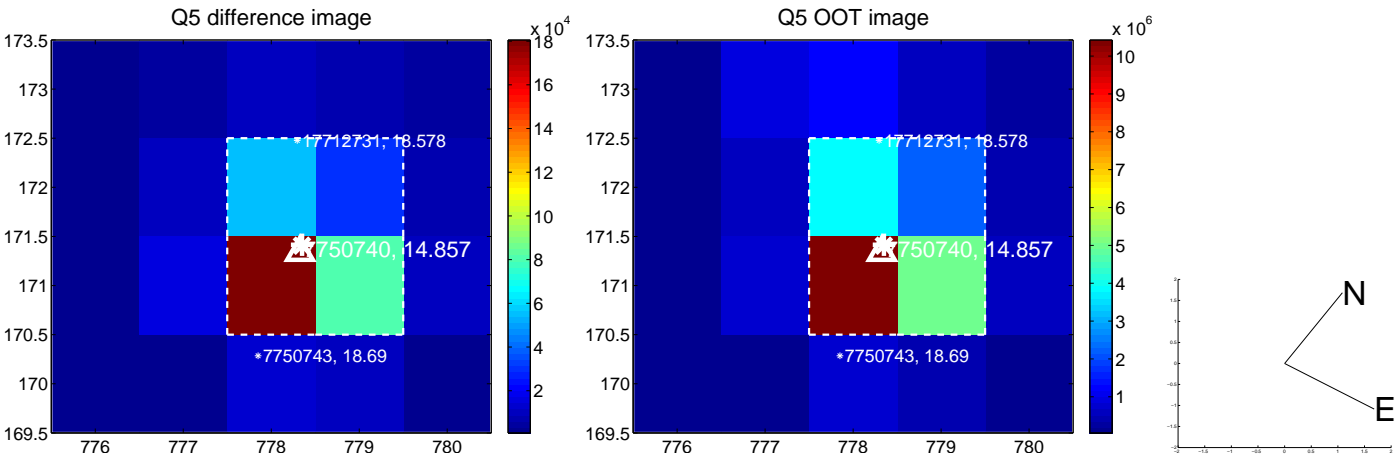


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

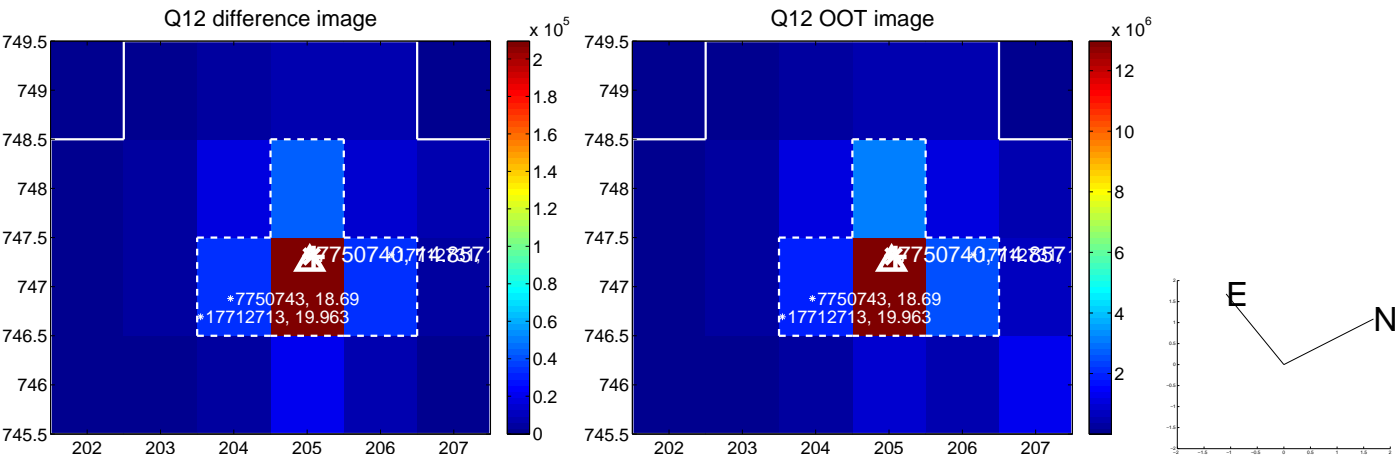
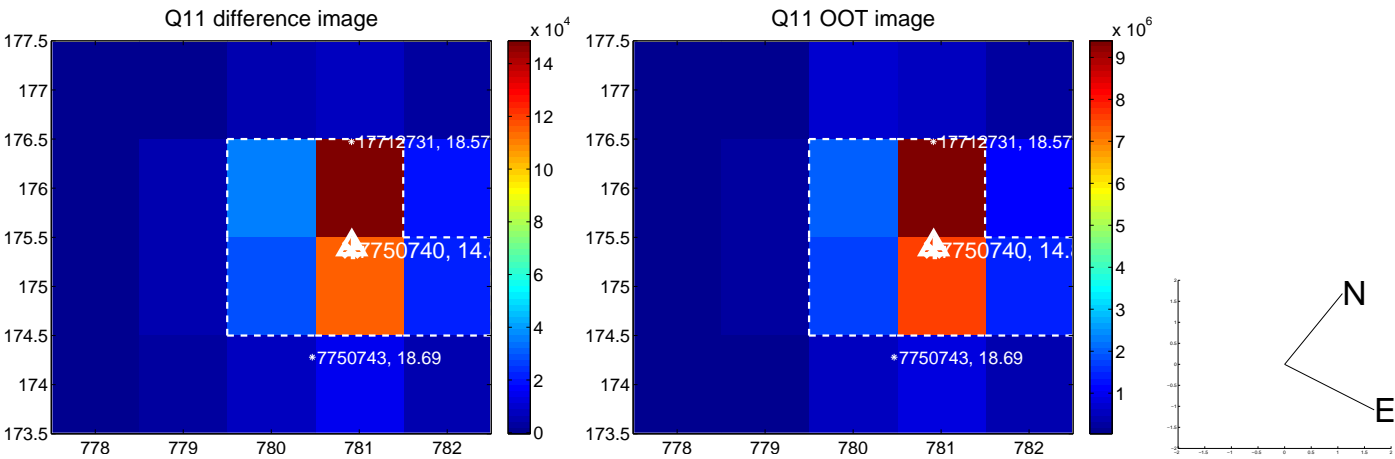
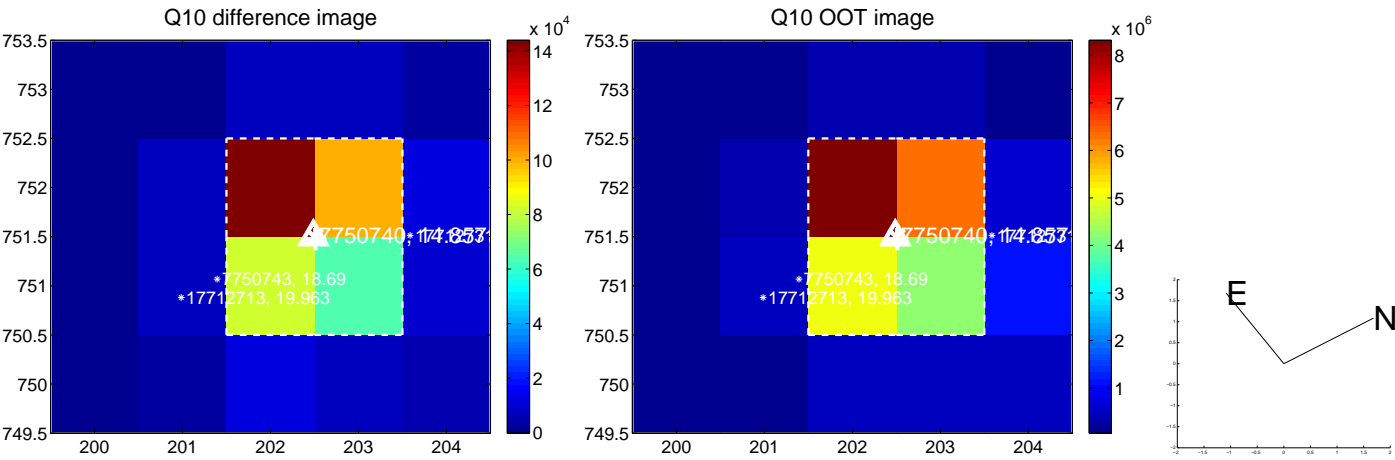
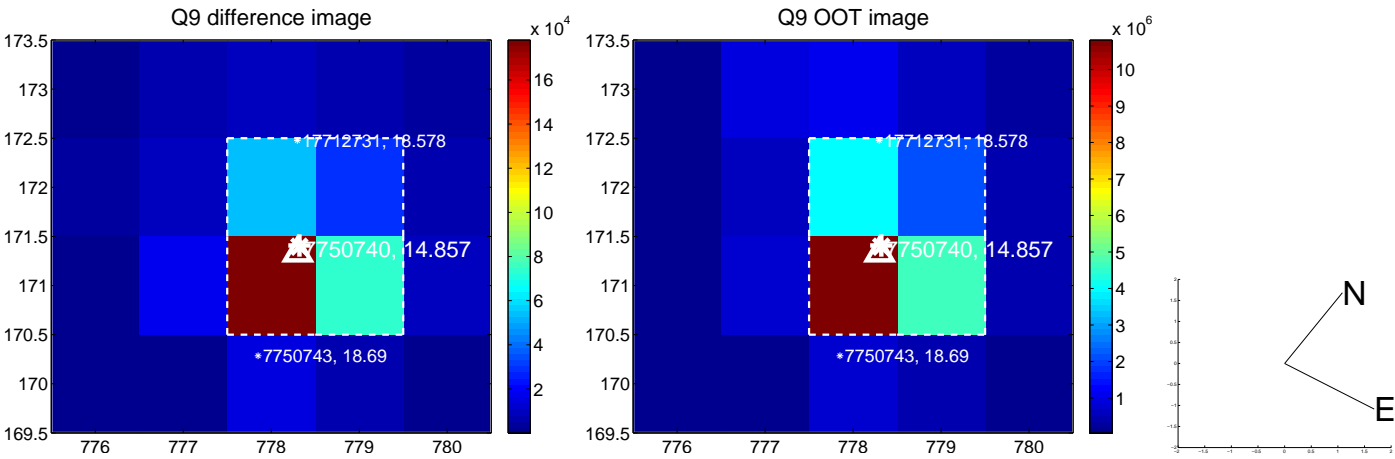
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



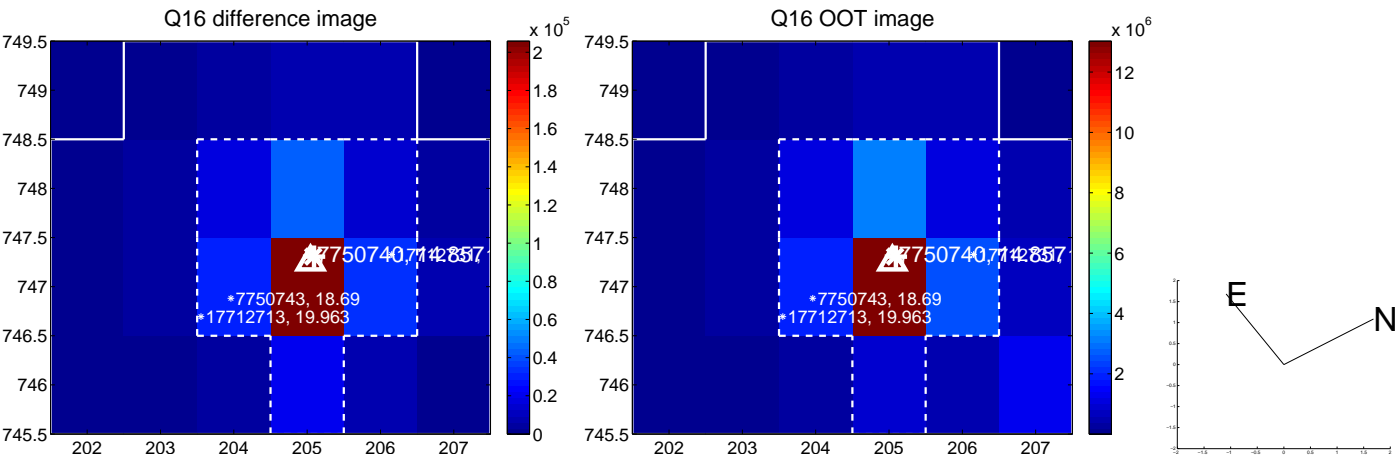
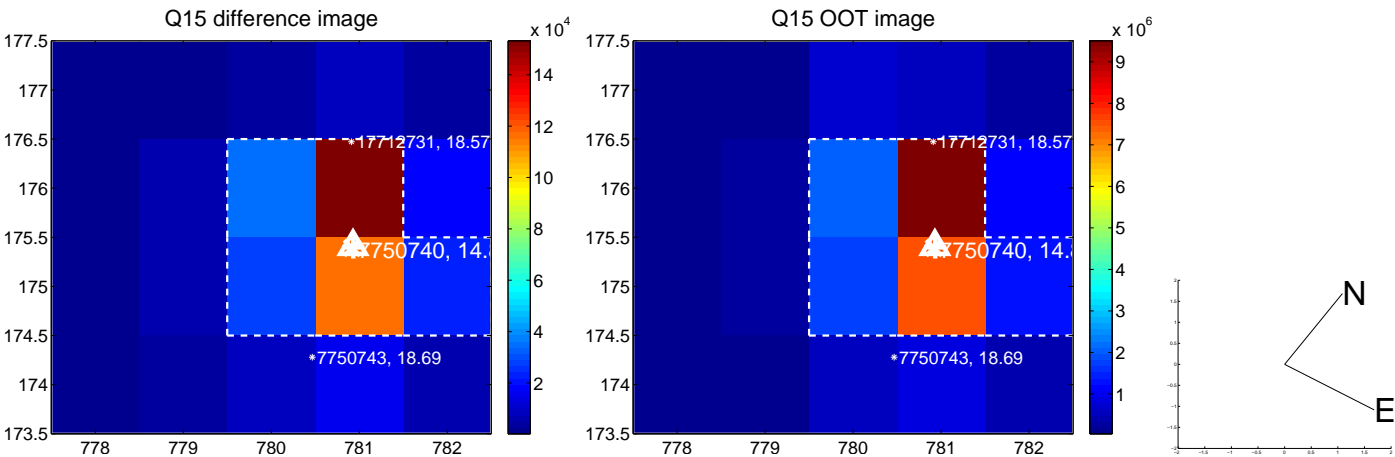
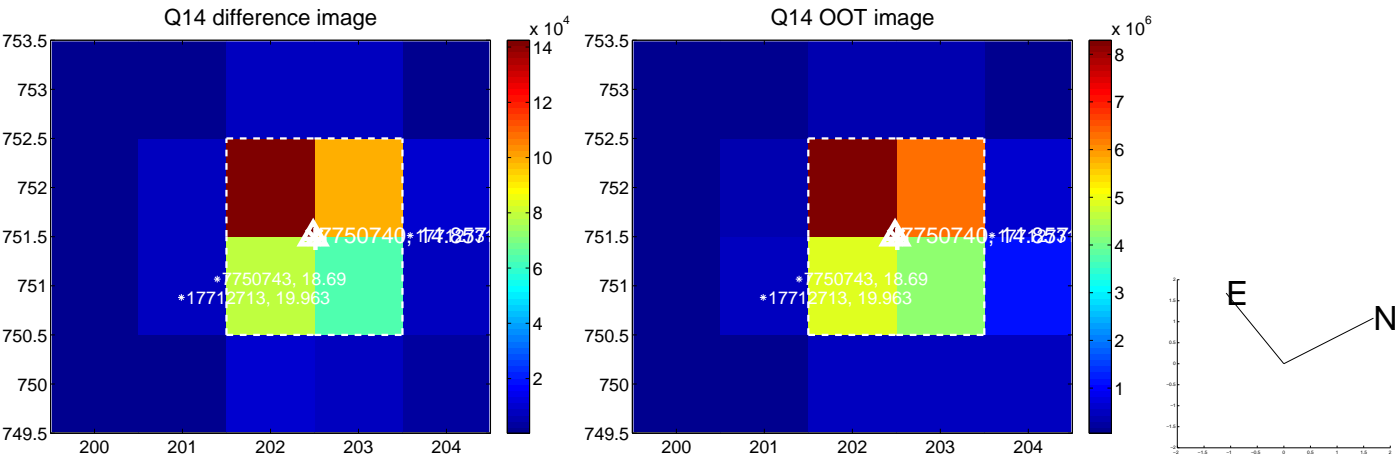
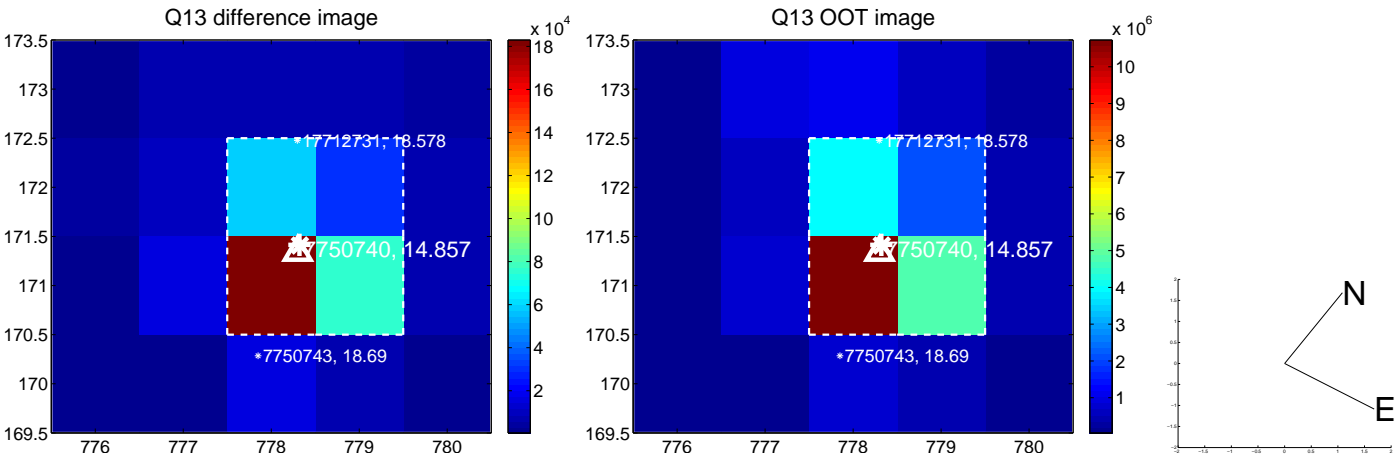
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



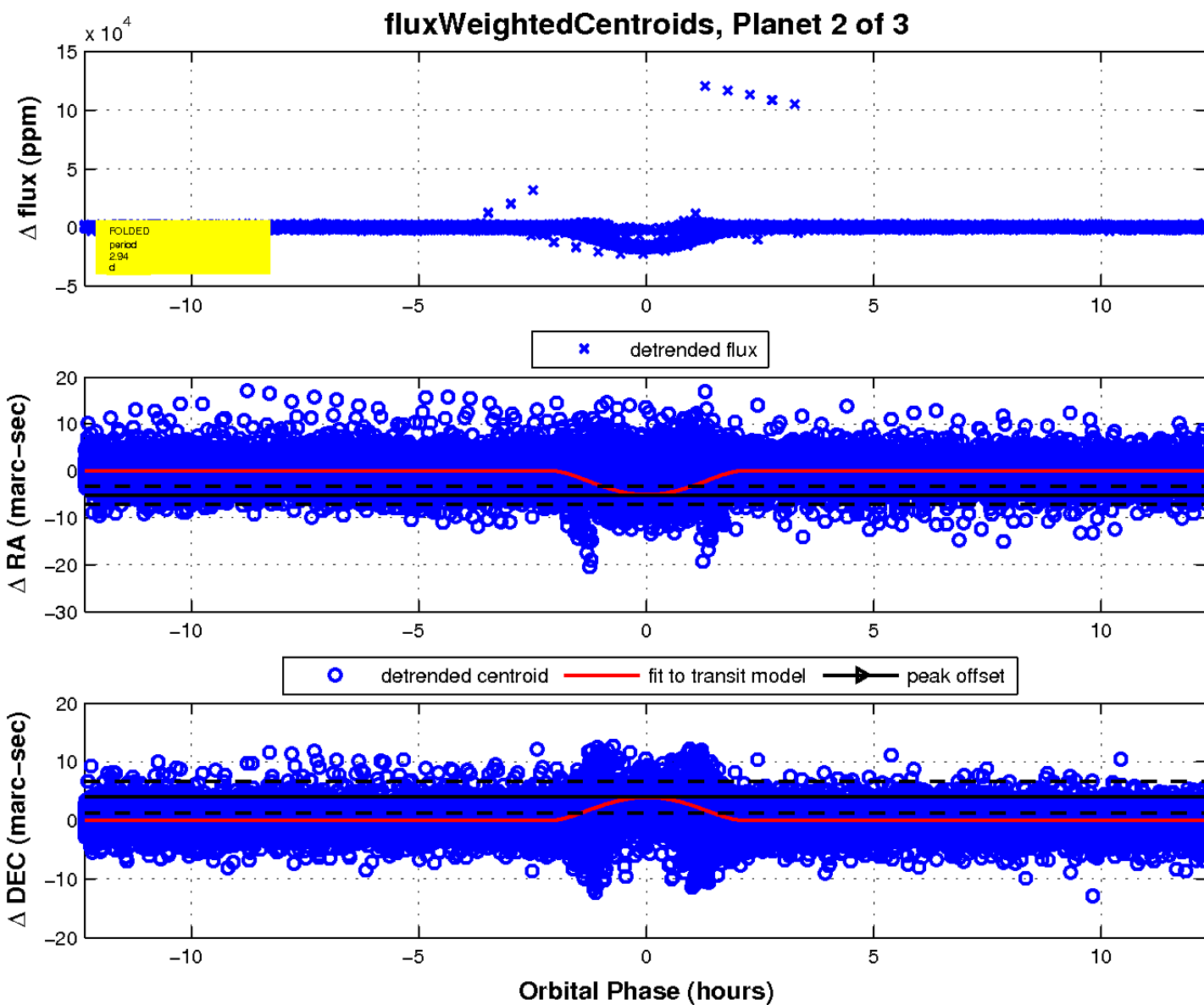
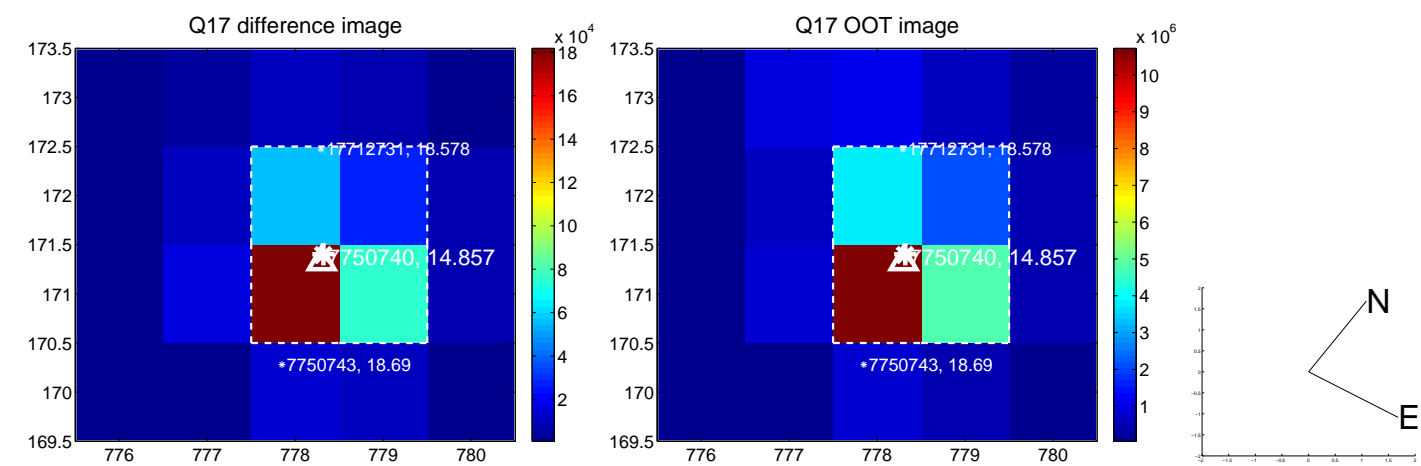
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

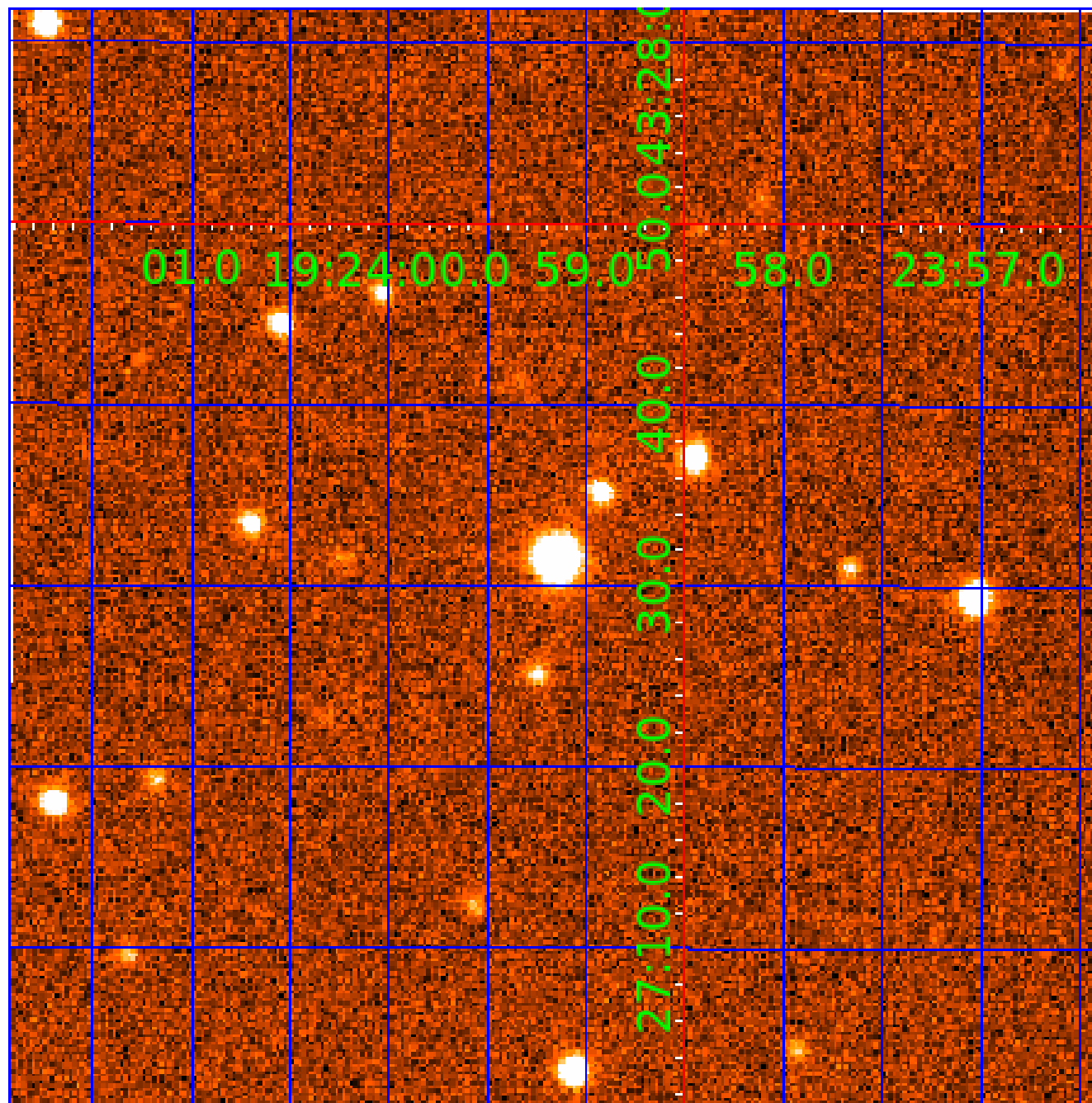


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007750740

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})
007750740-01	OBS	6162.01	5.874197	134.318781	205115.6	4.257	10478.6	7434.9	1.08	6103	74.24	362.15
007750740-02	OBS	No	2.937097	134.319372	16990.8	4.114	915.9	868.4	1.08	6103	24.50	912.56
007750740-03	OBS	No	505.240205	436.372898	1698.9	3.500	12.8	-1.0	1.08	6103	4.47	0.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007750740-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
007750740-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007750740-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

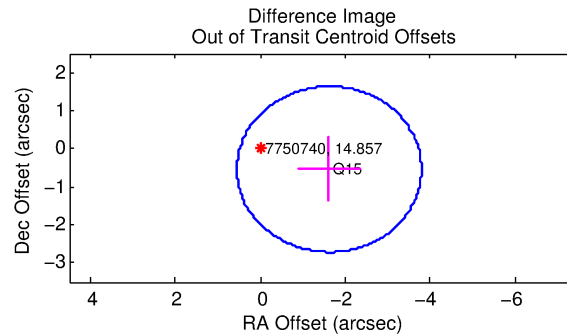
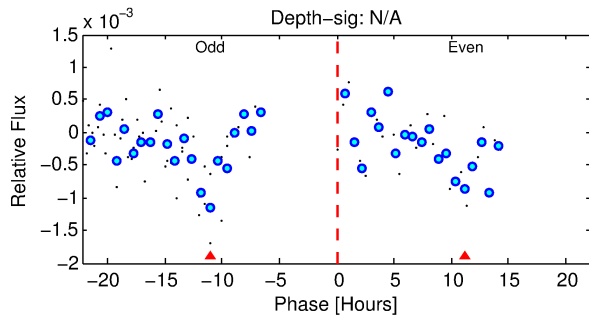
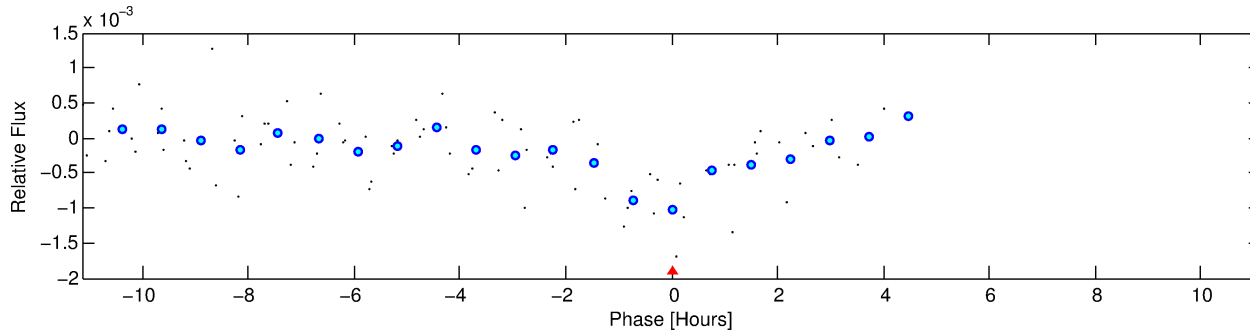
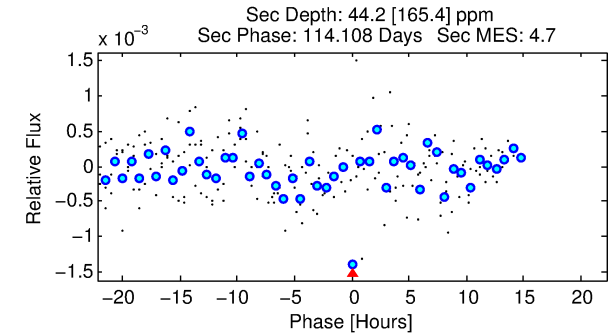
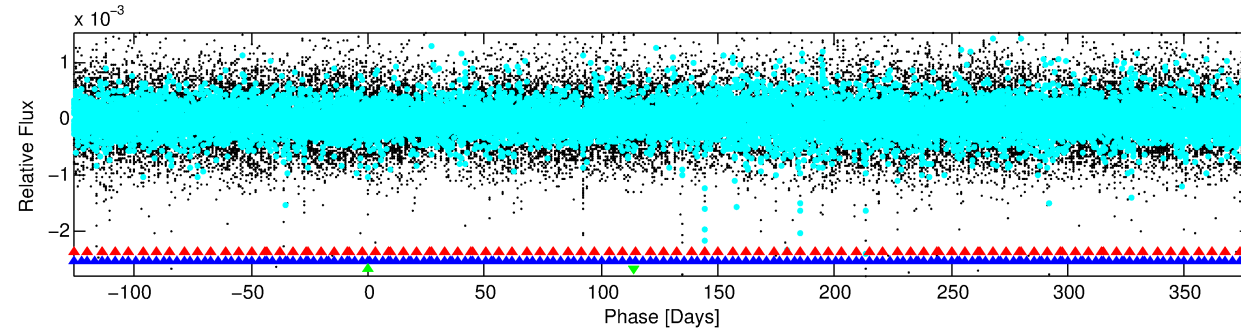
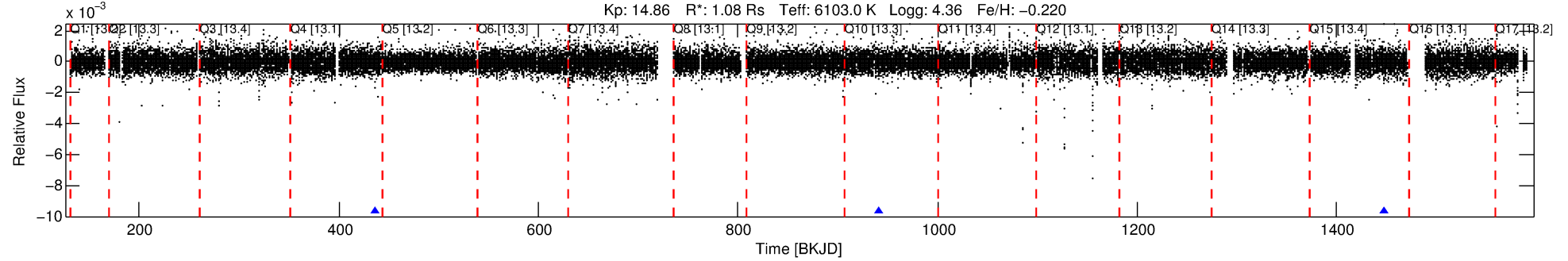
Ephemeris Match Information For 007750740-03

No Significant Match Found

DV One-Page Summary

KIC: 7750740 Candidate: 3 of 3 Period: 505.240 d
KOI: K06162 Corr: No Ephemeris Match

Kp: 14.86 R*: 1.08 Rs Teff: 6103.0 K Logg: 4.36 Fe/H: -0.220



TPS TCE Results:

Period = 505.24020 d
Epoch = 436.3729 BKJD

DV fit results are unavailable

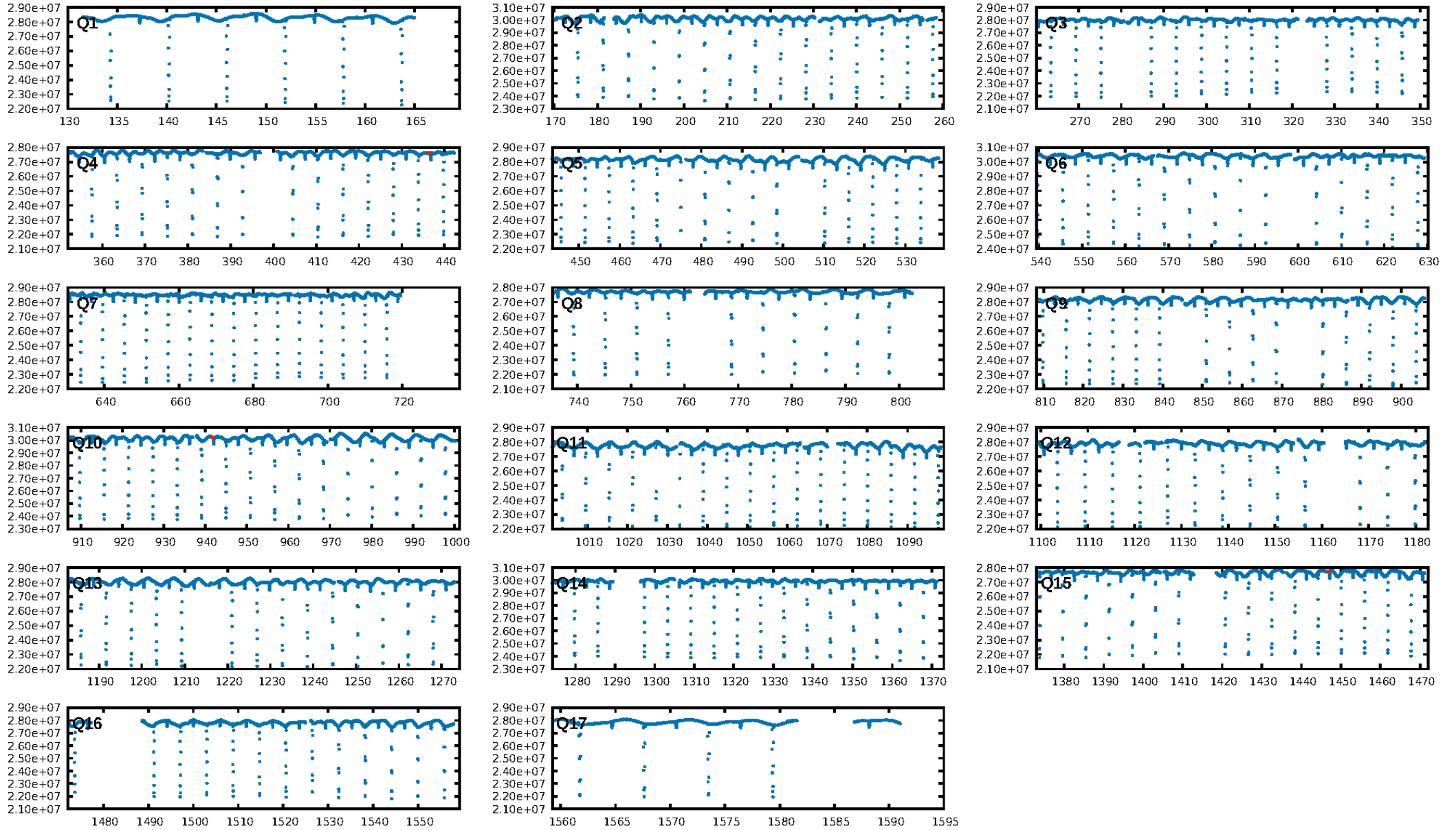
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [2174.60σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.2162
Centroid-sig: 5.6%
Centroid-so: 2.480 arcsec [1.48σ]
OotOffset-rm: 1.716 arcsec [2.37σ]
KicOffset-rm: 1.706 arcsec [2.36σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 0.00 [0/2]

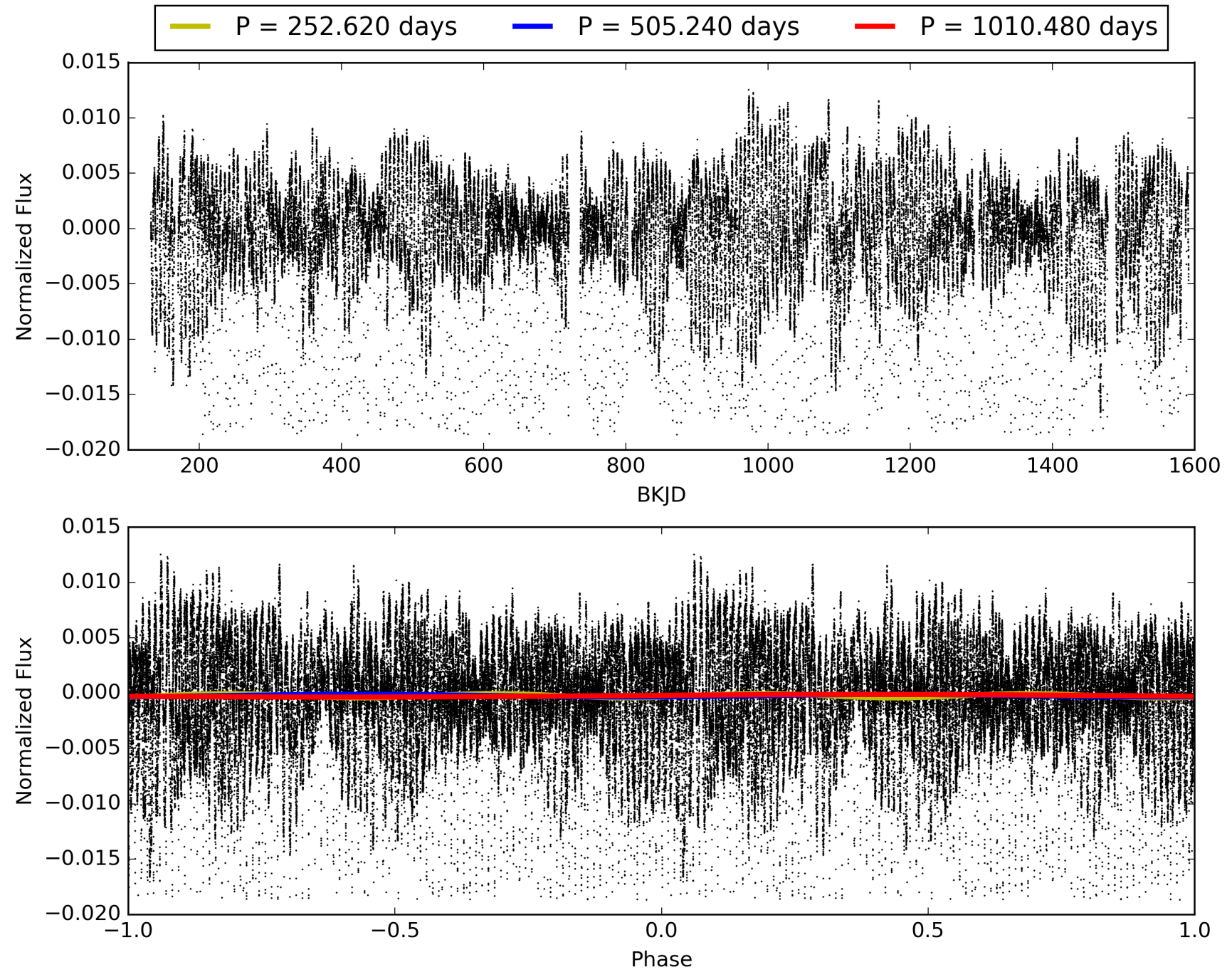
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:18:20 Z

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

TCE 007750740-03, PDC Light Curves

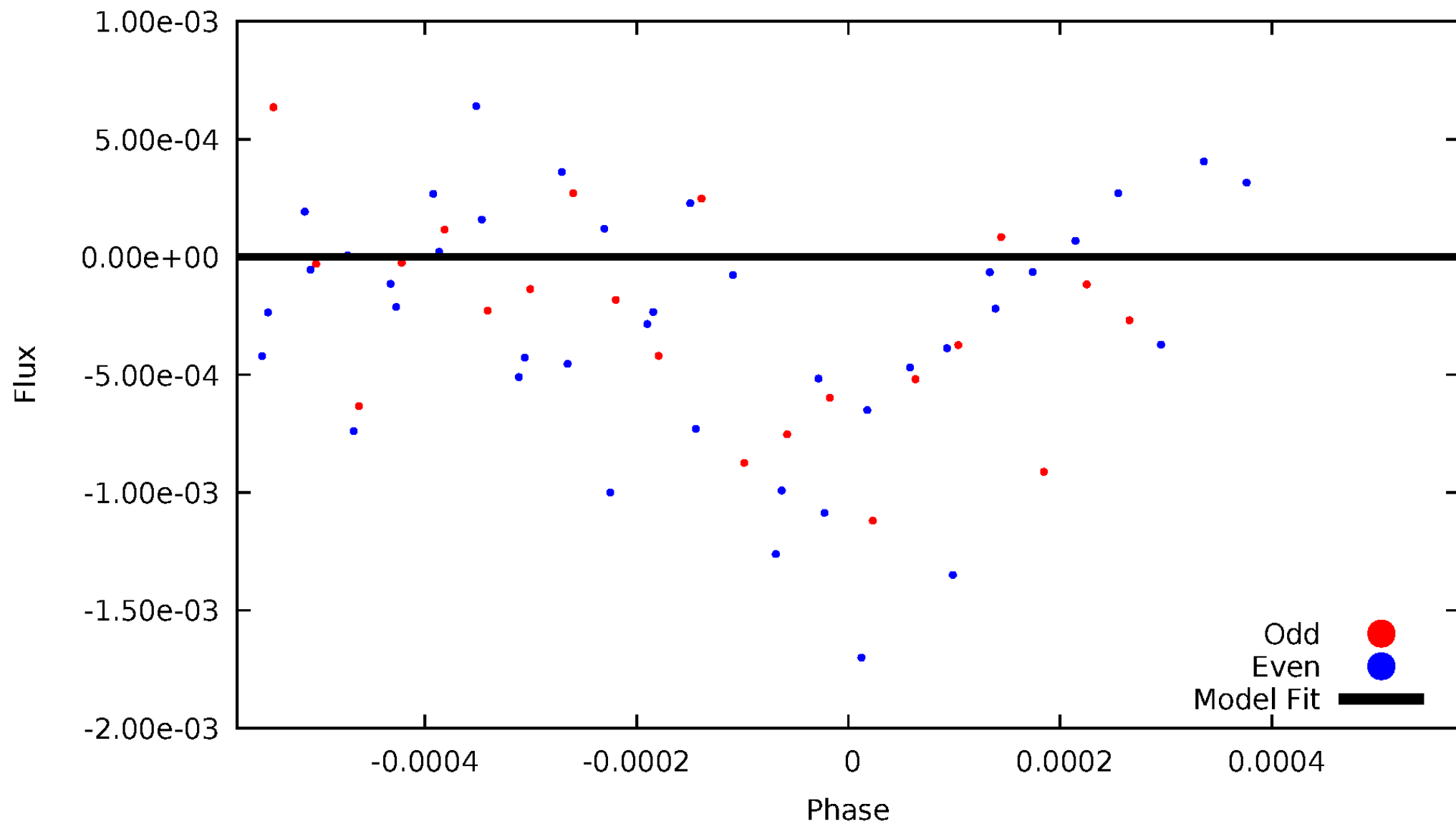


TCE 007750740-03



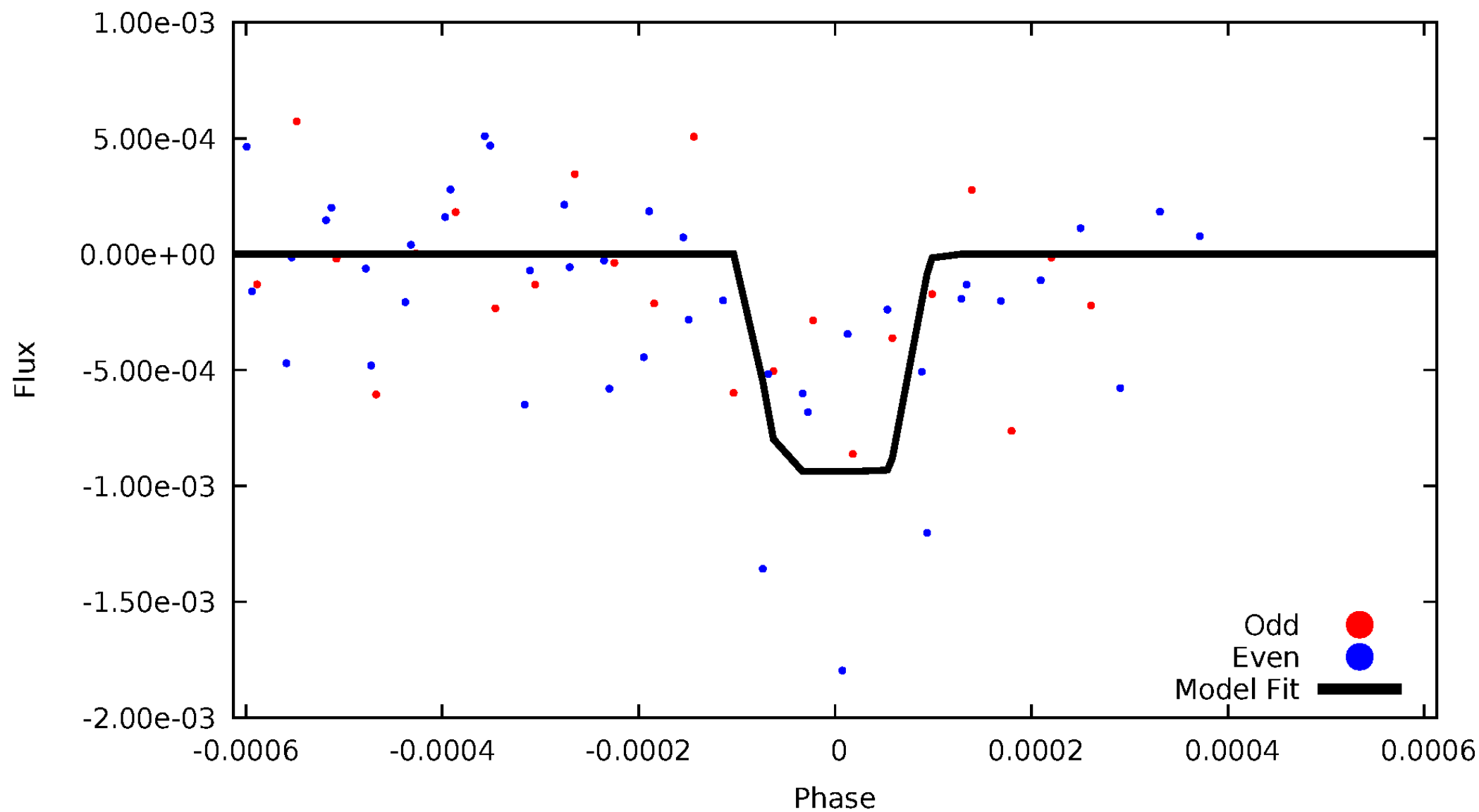
DV Odd/Even

TCE 007750740-03

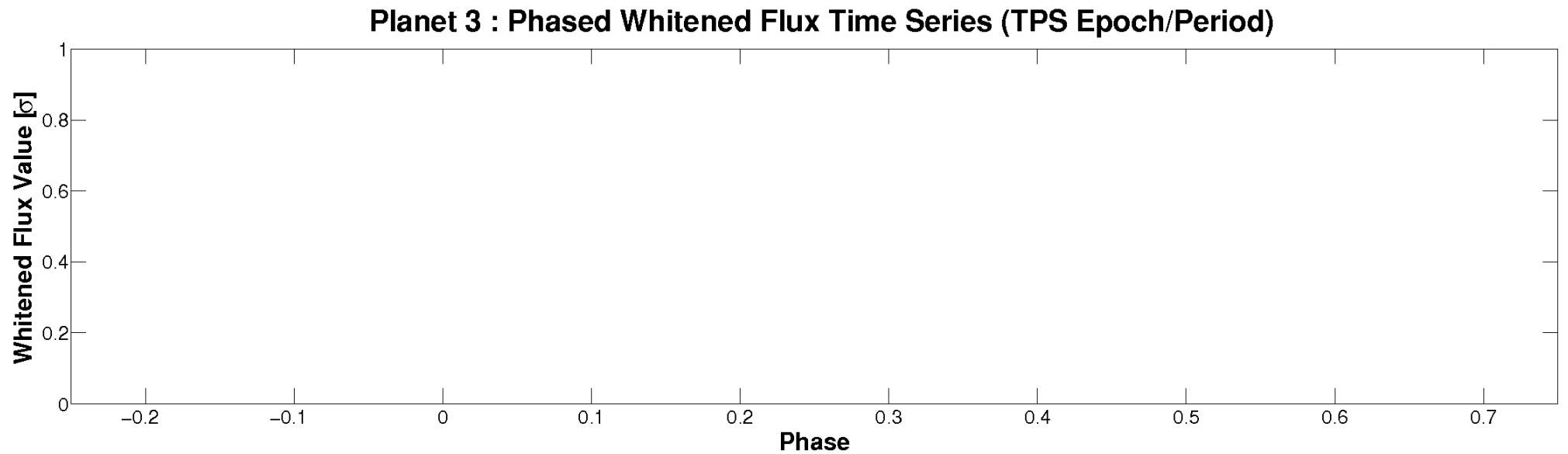
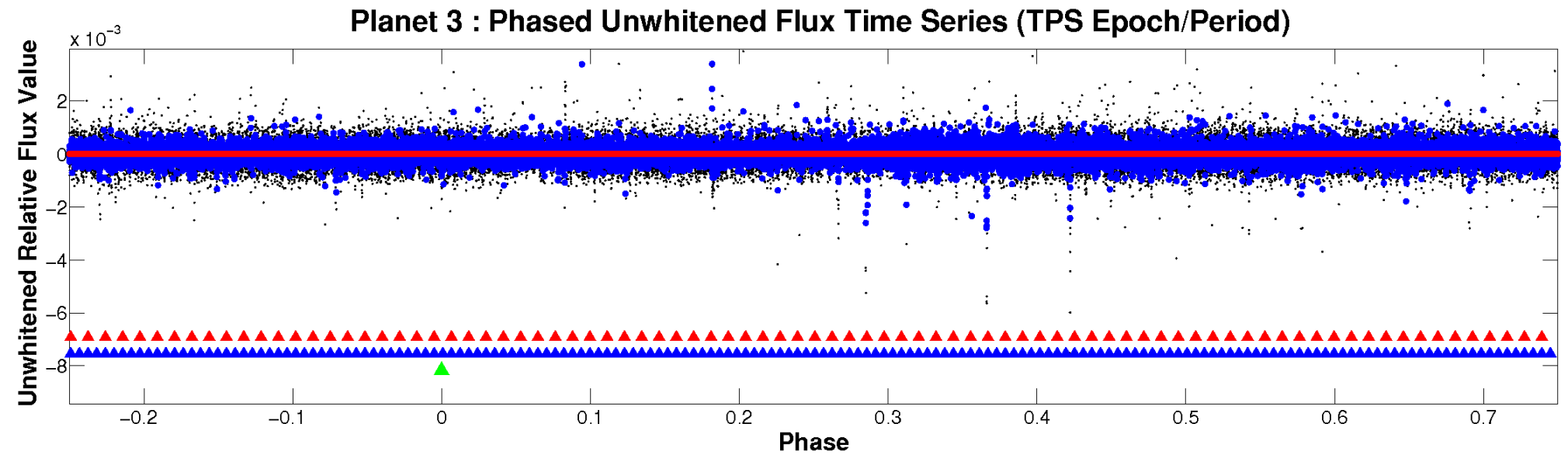


ALT Odd/Even

TCE 007750740-03

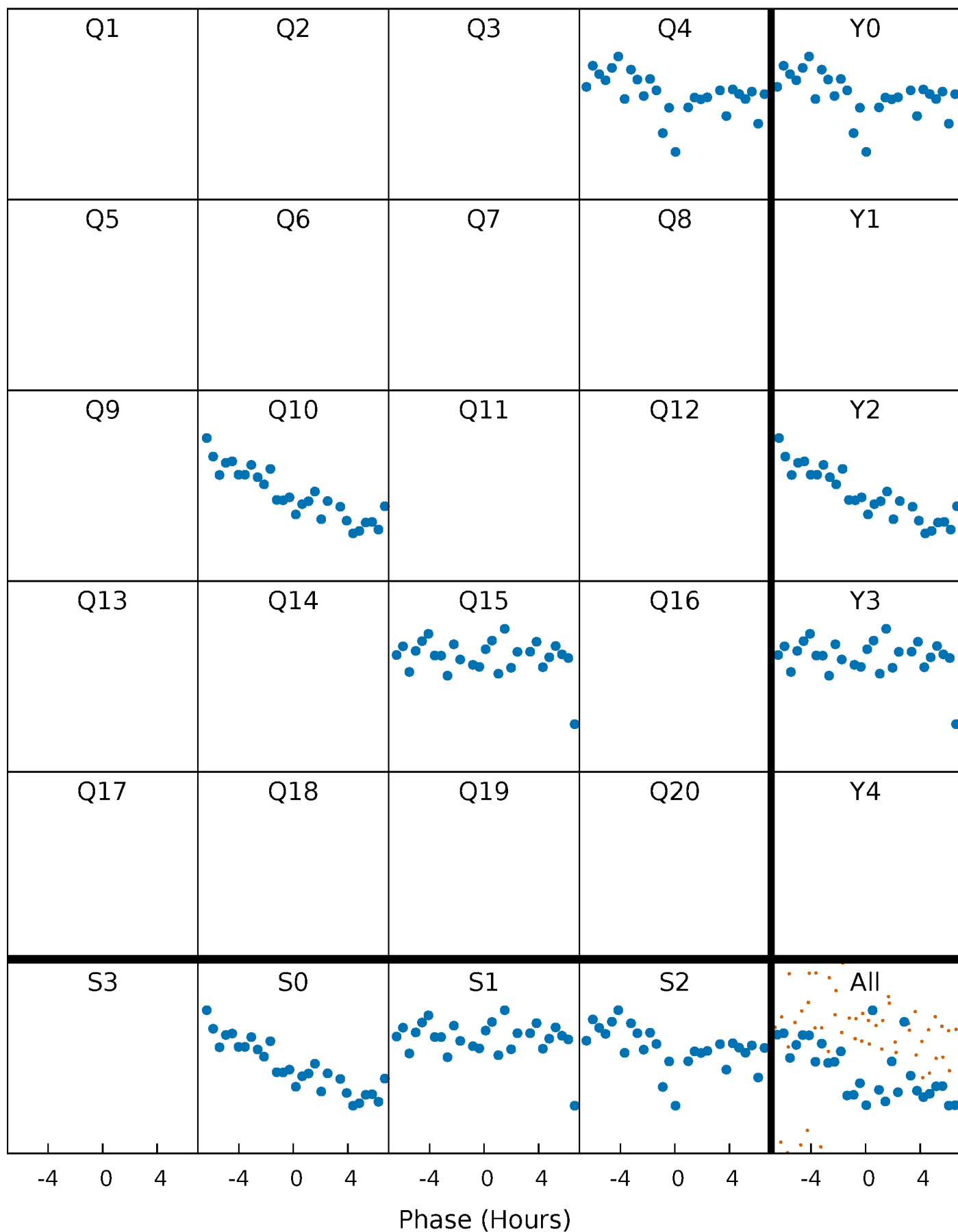


Non-Whitened Vs. Whitened Light Curve



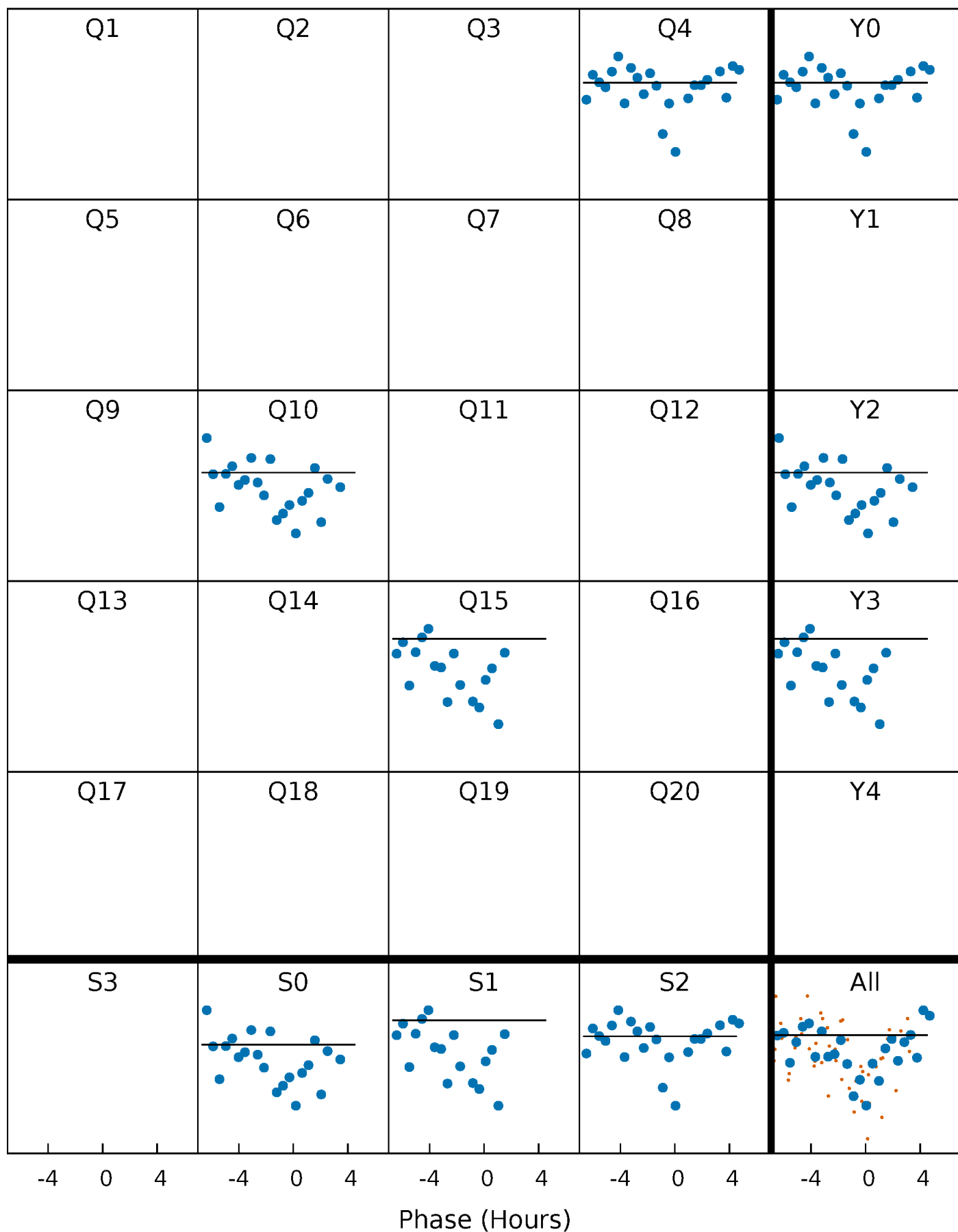
PDC Quarter-Phased Transit Curves

TCE 007750740-03 P=505.240205 Days $T_0=436.372898$ (BKJD)



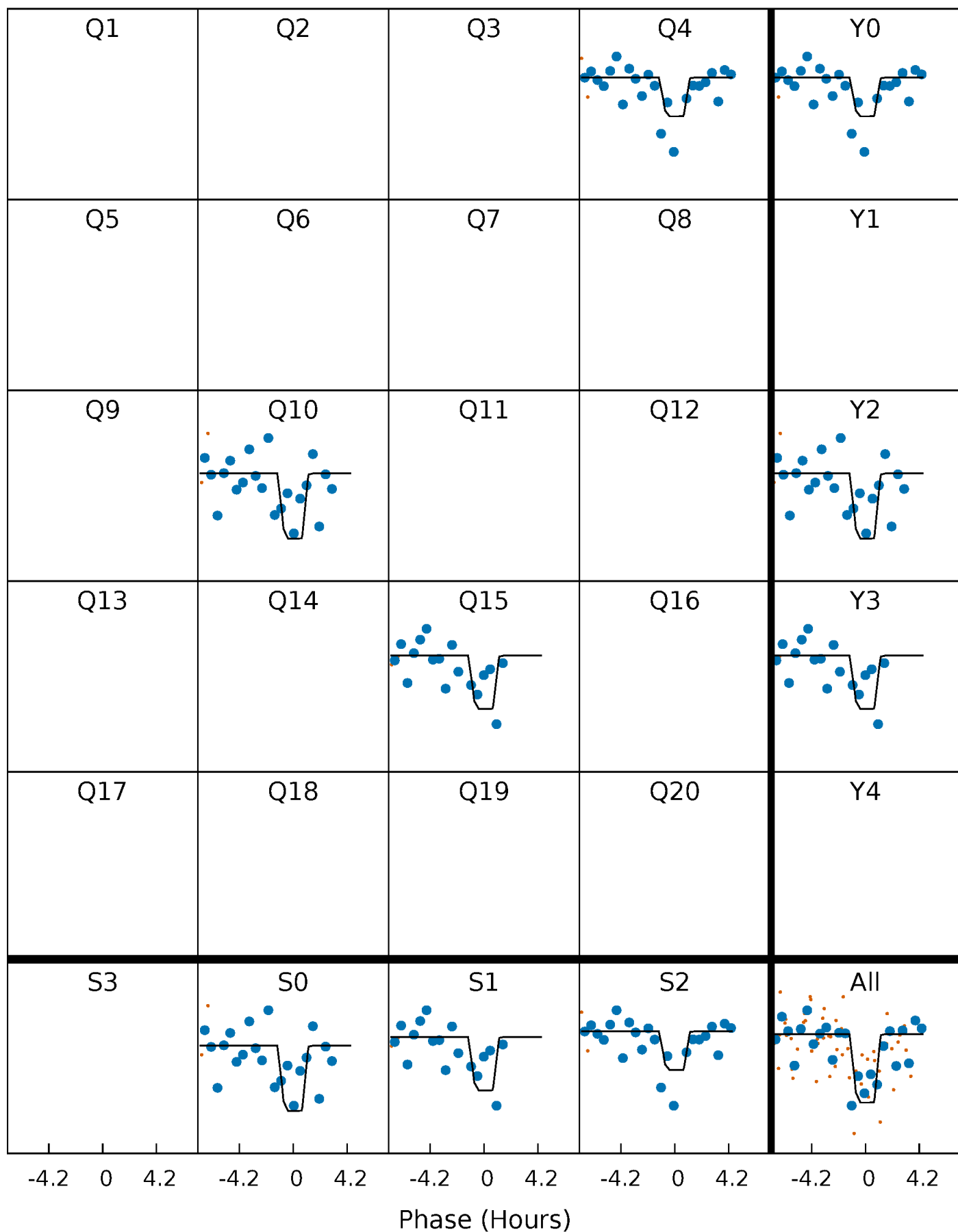
DV Quarter-Phased Transit Curves

TCE 007750740-03 P=505.240205 Days $T_0=436.372898$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

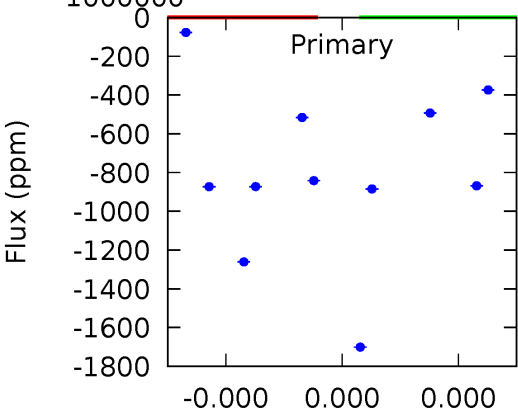
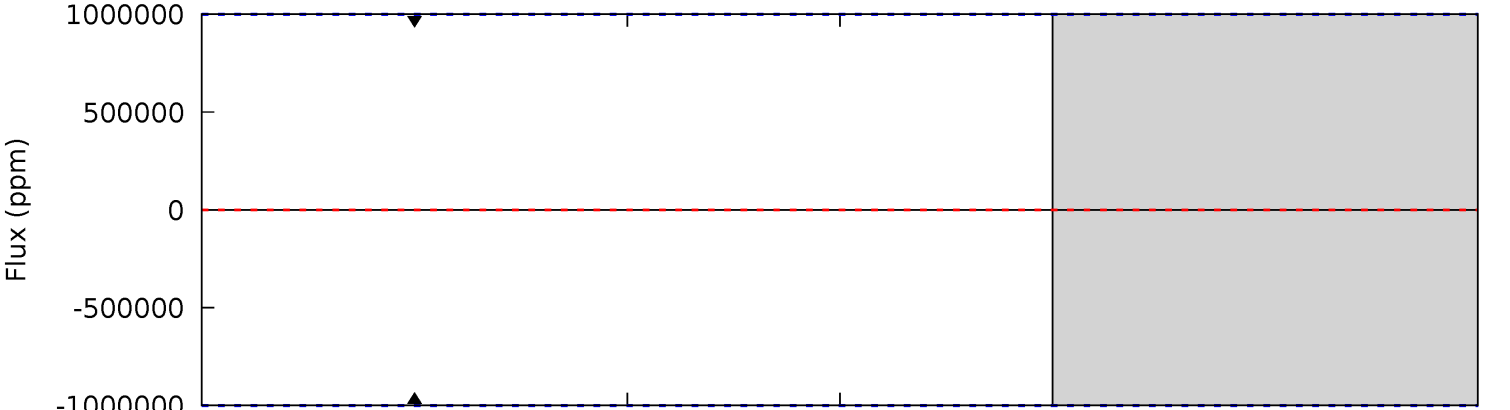
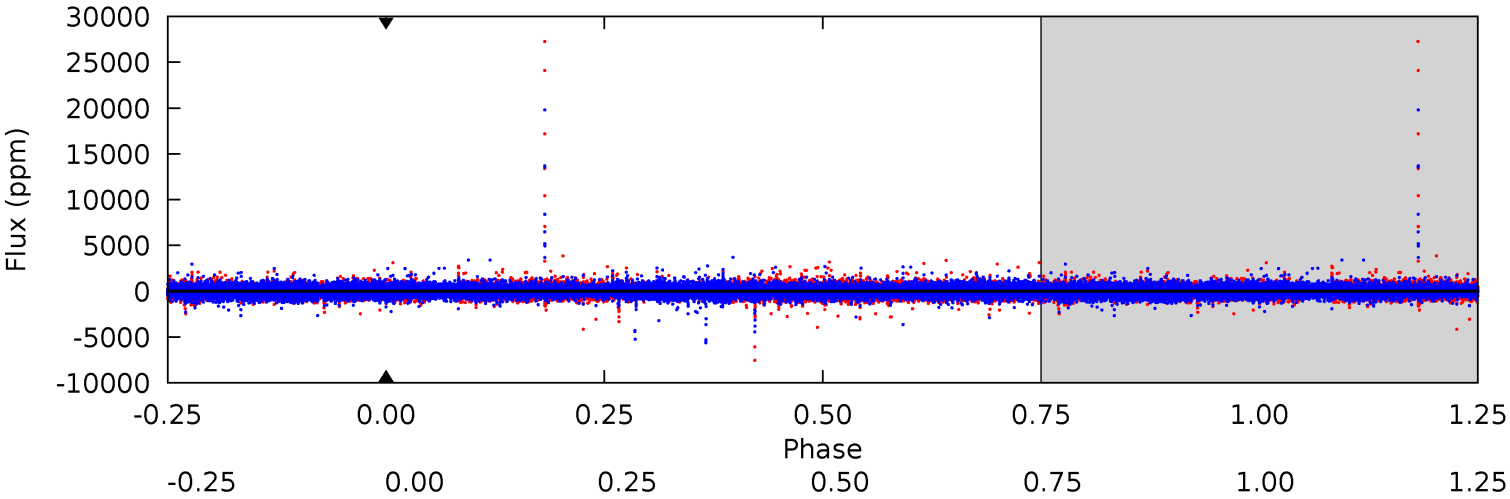
TCE 007750740-03 P=505.240205 Days $T_0=436.375414$ (BKJD)



DV Model-Shift Uniqueness Test

007750740-03, P = 505.240205 Days, E = 436.372898 Days

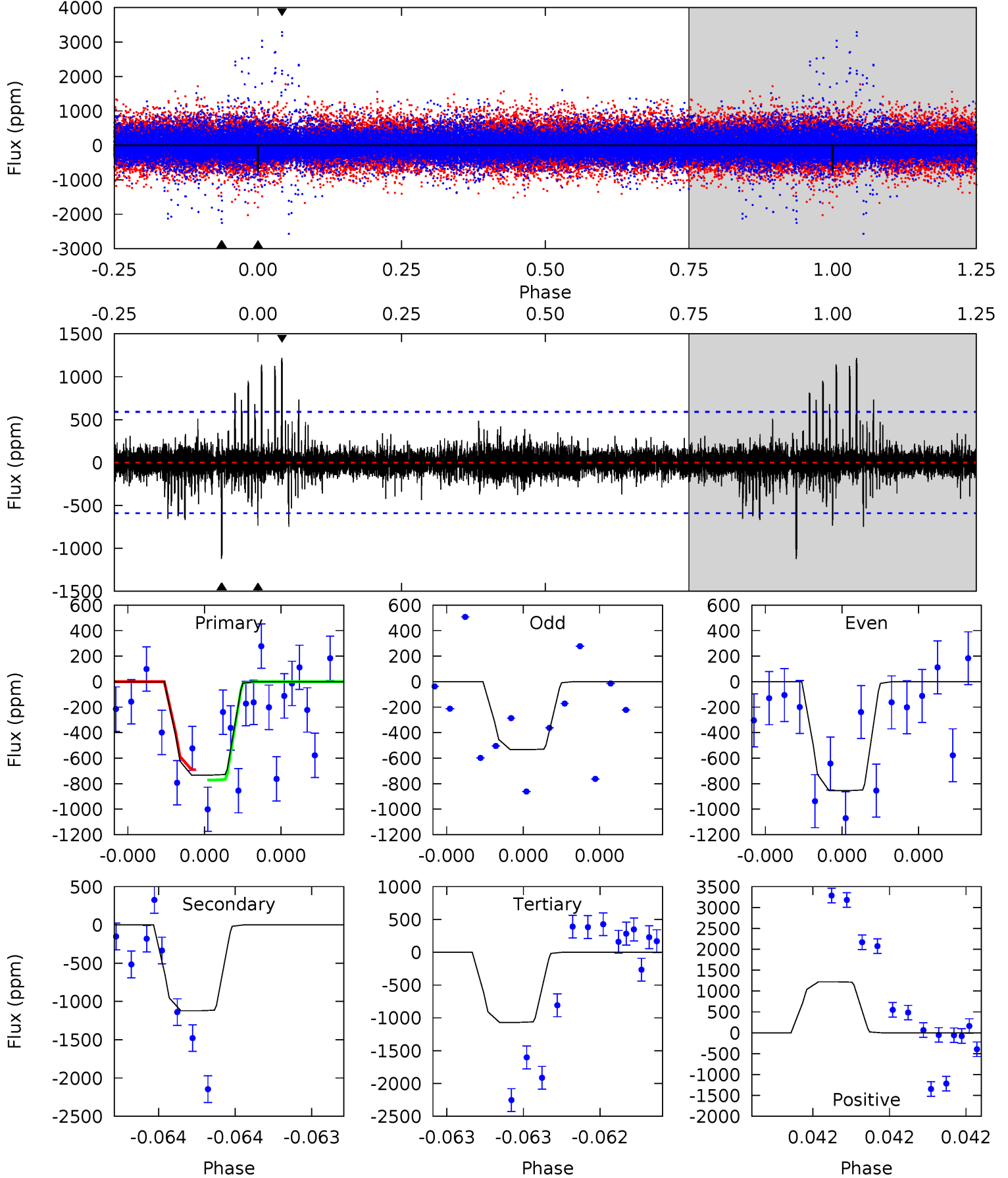
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007750740-03, P = 505.240205 Days, E = 436.375414 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.11	10.9	10.4	11.8	5.73	3.72	0.89	-3.26	-4.72	0.51	-0.95	1.59	1.51	0.52	0.37



Stellar Parameters For KIC 007750740

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6103^{+190}_{-212}	$4.363^{+0.124}_{-0.201}$	$-0.220^{+0.300}_{-0.300}$	$1.083^{+0.334}_{-0.180}$	$0.987^{+0.153}_{-0.111}$	$1.094^{+0.633}_{-0.540}$
	+3%/-3%	+3%/-5%	+136%/-136%	+31%/-17%	+16%/-11%	+58%/-49%
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 007750740-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$10.35^{+10.92}_{-6.99}$	355^{+29}_{-22}	-4886^{+24143}_{-13125}	$-18688.507^{+1322740.125}_{-1165075.503}$
Alt.	-1121 ± 103	$9.28^{+10.20}_{-6.39}$	354^{+27}_{-20}	4270^{+2947}_{-925}	11055^{+99901}_{-8574}

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

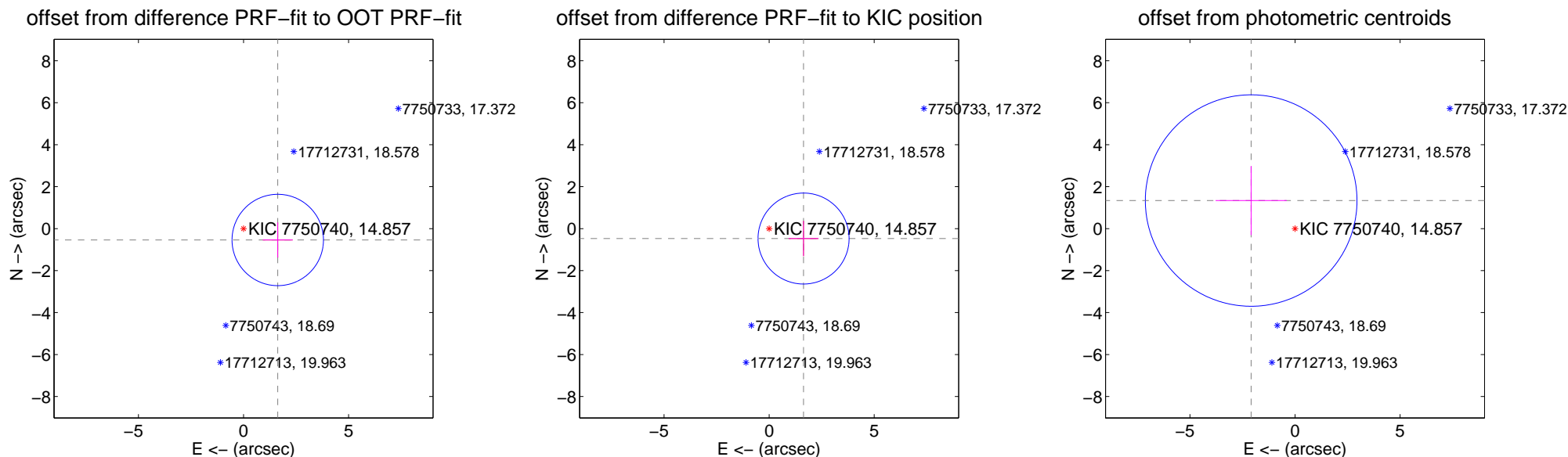
DV Centroid Data

Supplemental centroid analysis for 007750740-03. Kepler magnitude: 14.86. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.716 ± 0.725	2.37	-1.629 ± 0.712	-0.540 ± 0.838
PRF-fit source offset from KIC position	1.706 ± 0.722	2.36	-1.639 ± 0.712	-0.472 ± 0.838
photometric centroid source offset	2.48 ± 1.68	1.48	2.09 ± 1.69	1.34 ± 1.64



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.

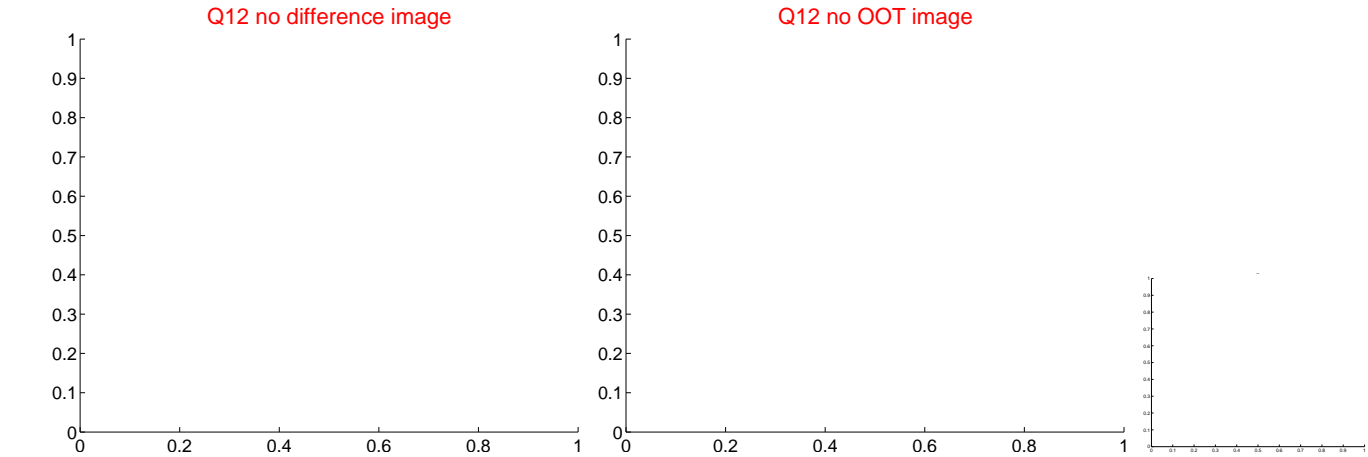
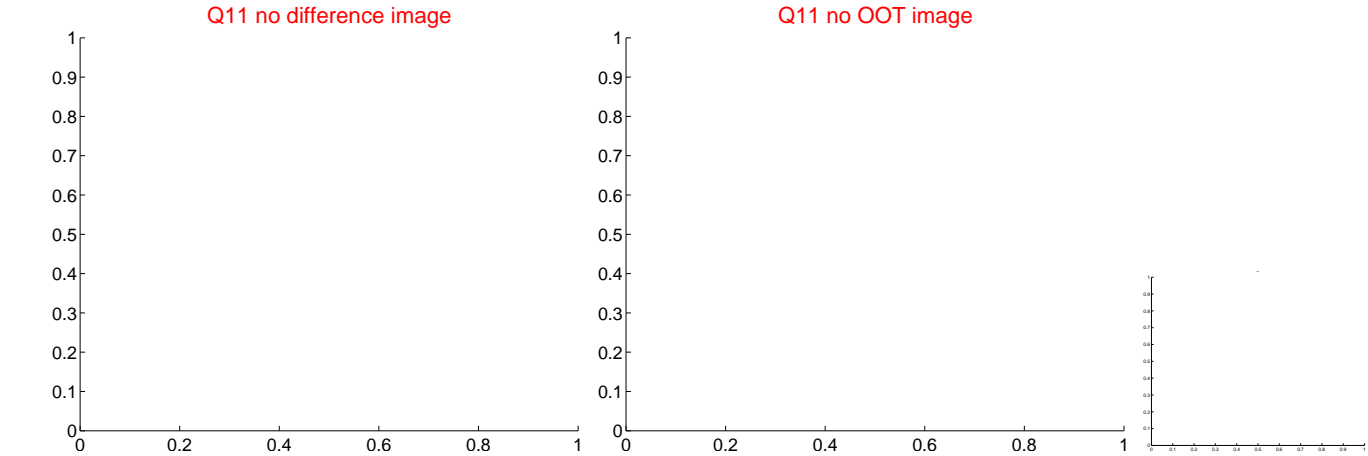
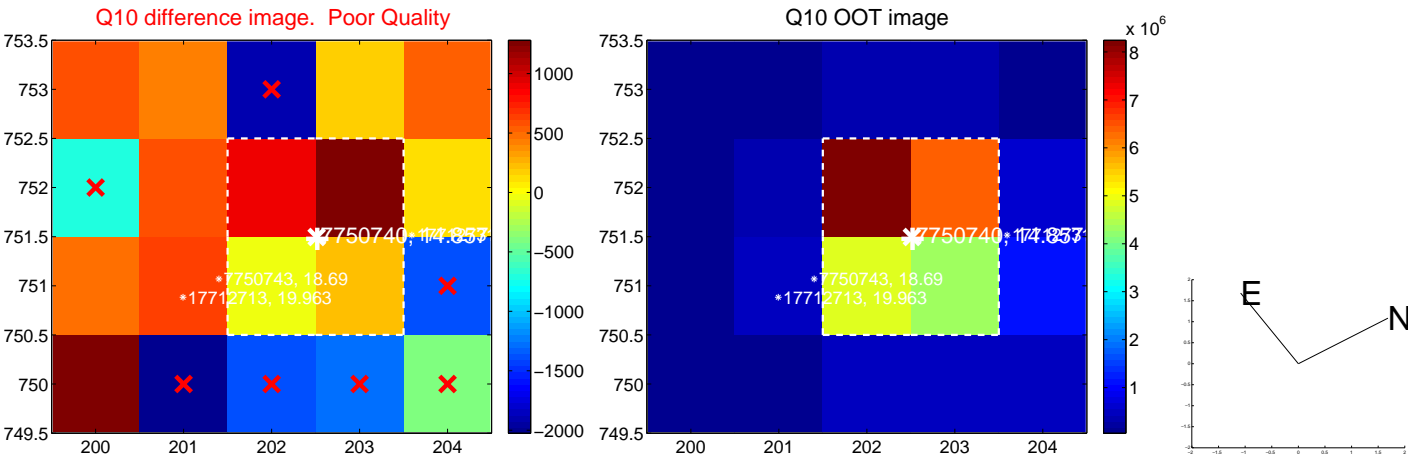
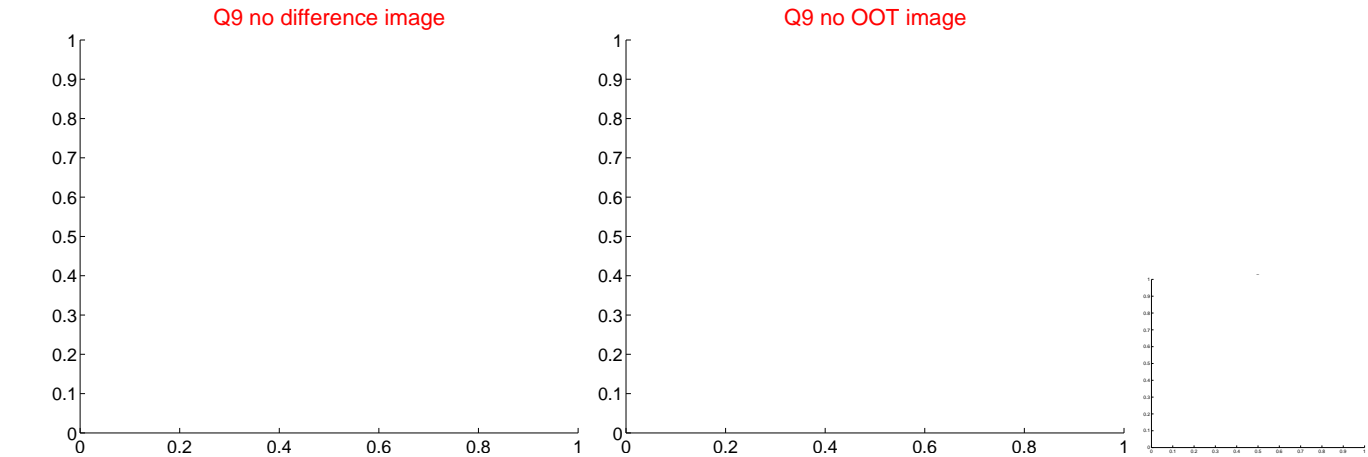
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



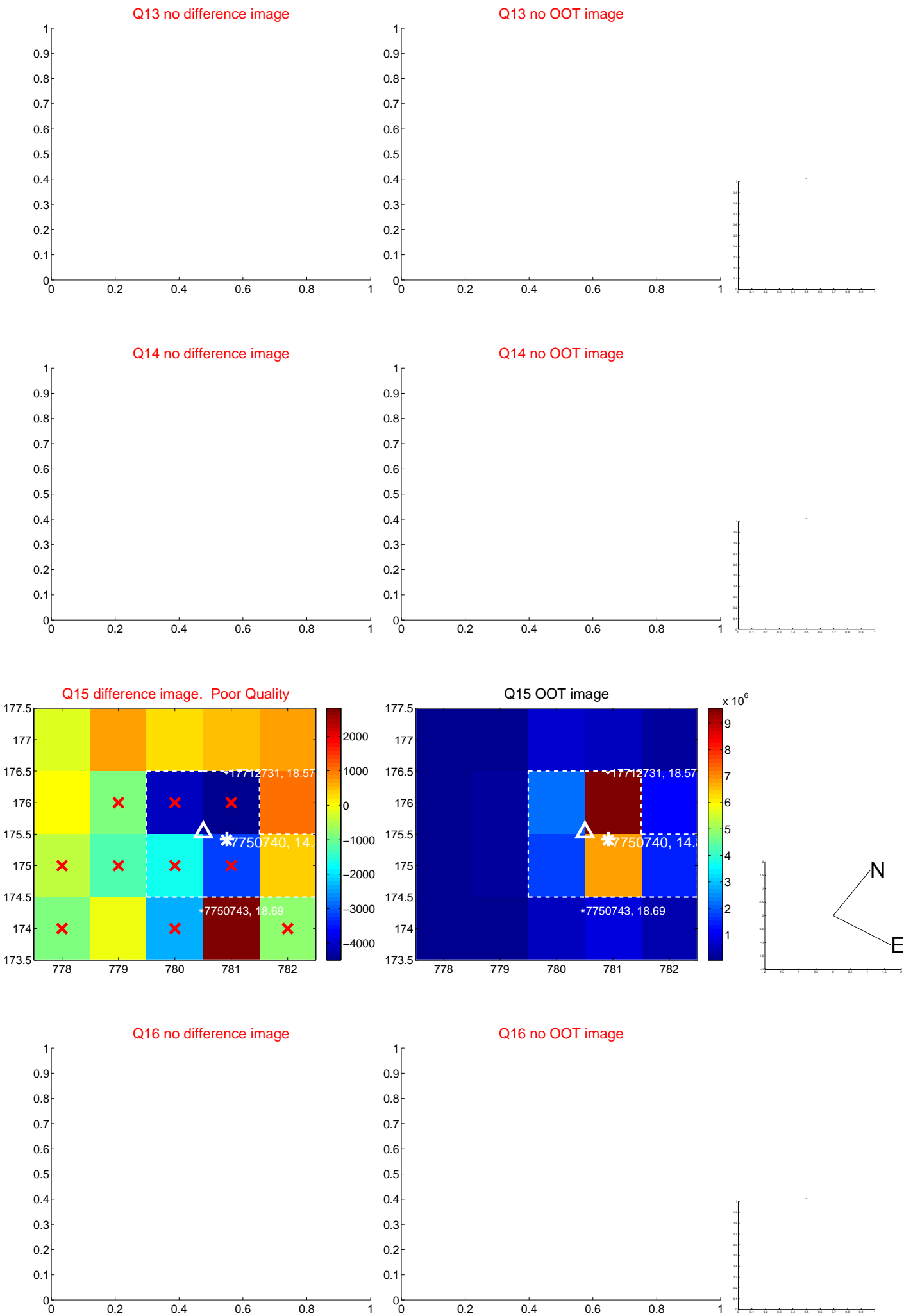
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



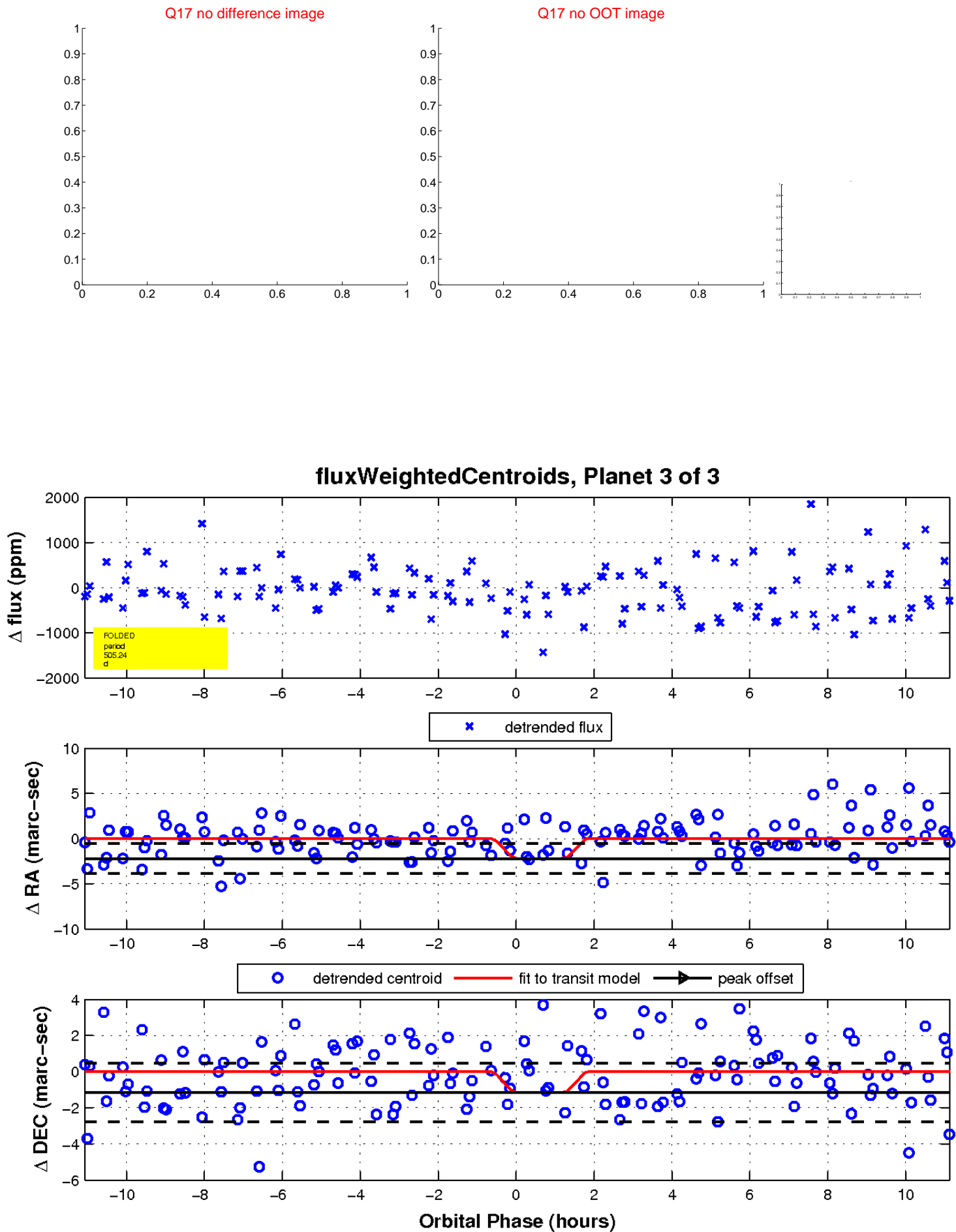
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

