

KIC 011186775

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})
011186775-01	OBS	No	400.103686	275.454263	1918.0	31.236	14.3	6.6	1.06	6190	5.64	1.41
011186775-02	OBS	No	478.347195	534.193598	1197.3	3.694	14.9	8.7	1.06	6190	3.69	1.11
011186775-03	OBS	No	442.406781	544.275608	984.9	8.576	17.5	6.0	1.06	6190	3.37	1.24
011186775-04	OBS	No	542.549173	369.227761	892.1	10.656	11.1	6.5	1.06	6190	3.34	0.94
011186775-05	OBS	No	466.107146	493.330360	661.4	4.430	16.3	6.1	1.06	6190	2.73	1.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011186775-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—HALO_GHOST
011186775-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011186775-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011186775-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011186775-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—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.

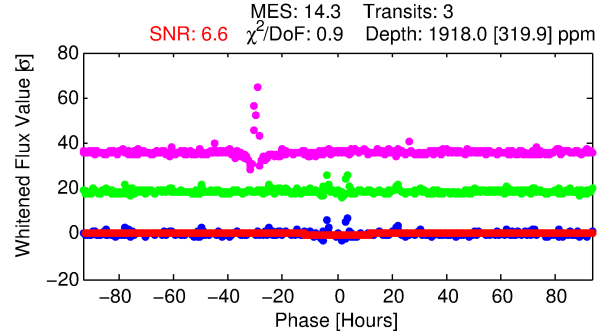
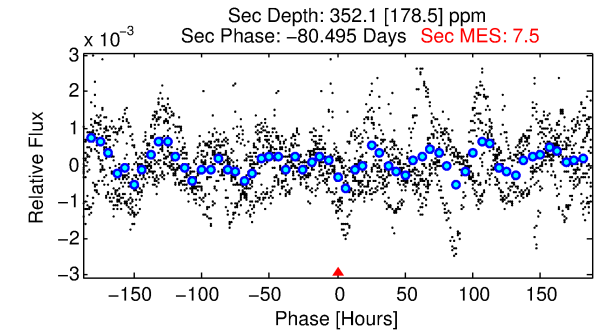
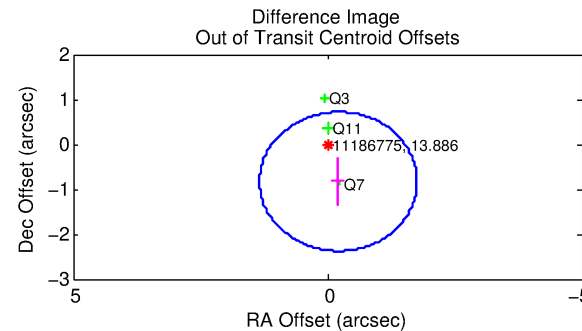
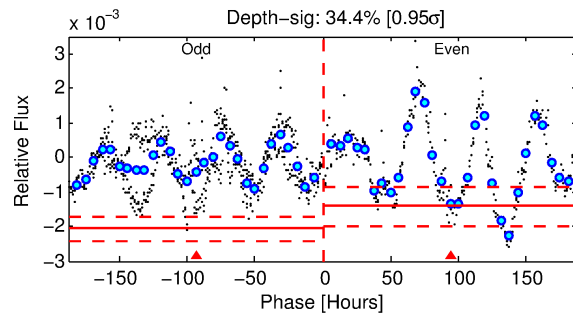
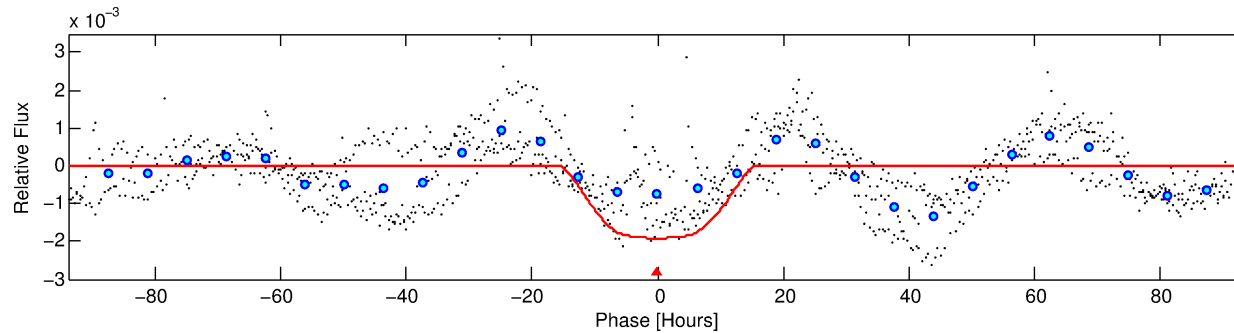
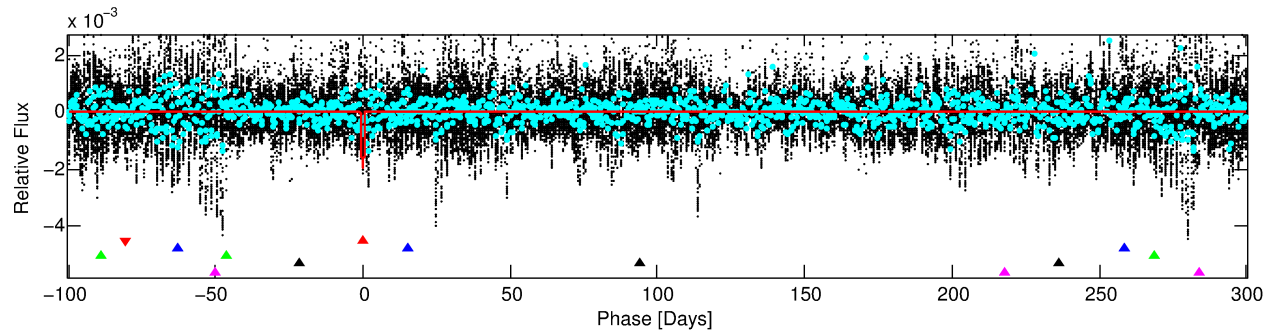
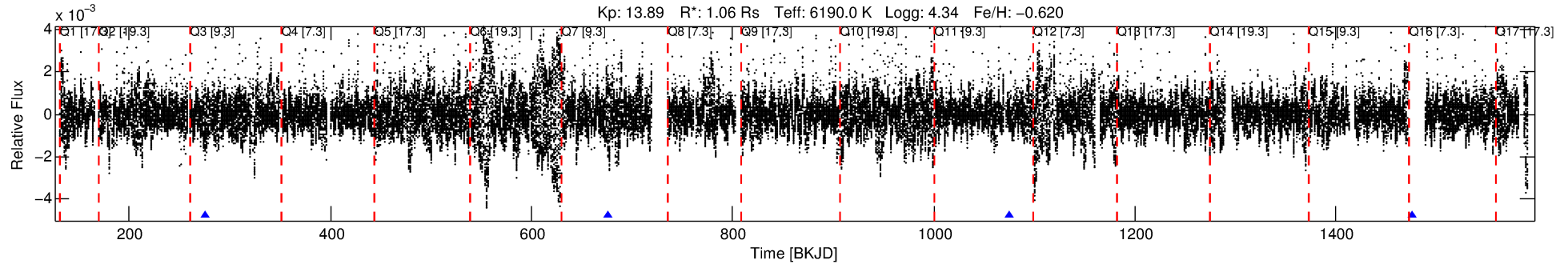
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011186775-01

No Significant Match Found

DV One-Page Summary

KIC: 11186775 Candidate: 1 of 5 Period: 400.104 d



DV Fit Results:

Period = 400.10369 [0.02598] d
Epoch = 275.4543 [0.0344] BKJD
Rp/R* = 0.0490 [0.0043]
a/R* = 46.24 [3.15]
b = 0.94 [0.01]
Seff = 1.41 [0.49]
Teq = 278 [24] K
Rp = 5.64 [1.61] Re
a = 1.0192 [0.2299] AU
Ag = 6317.50 [3959.92] [1.60 σ]
Teffp = 3832 [527] K [6.74 σ]

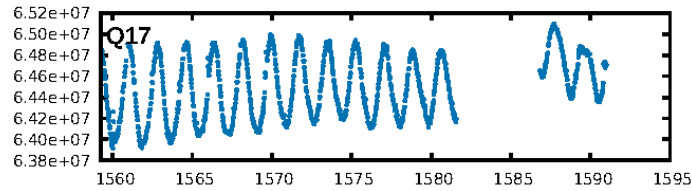
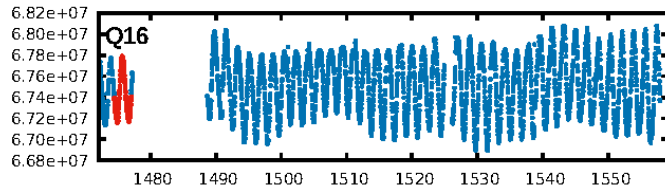
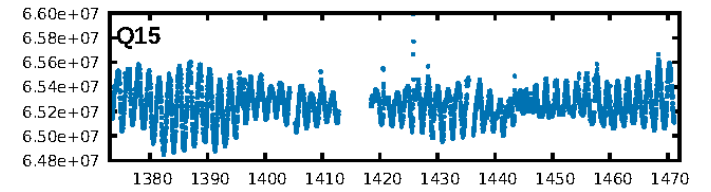
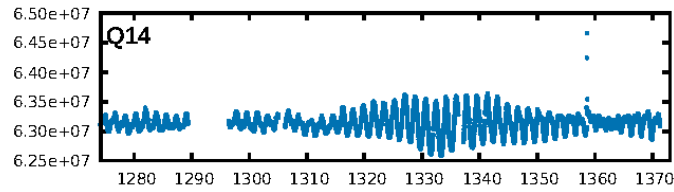
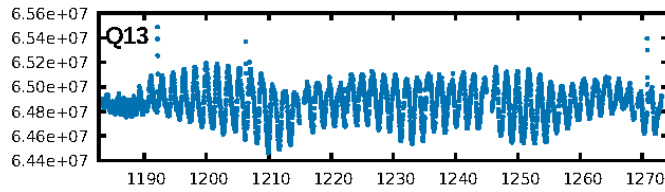
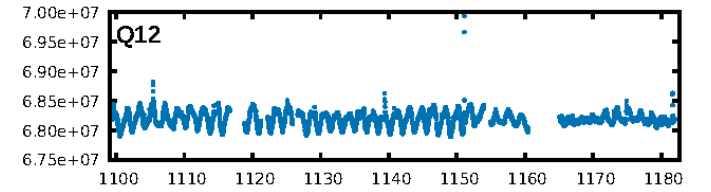
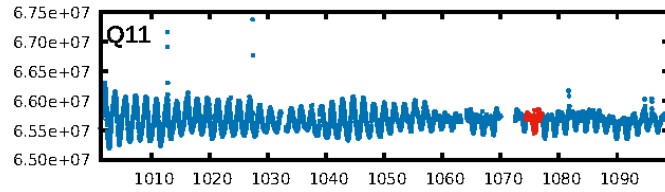
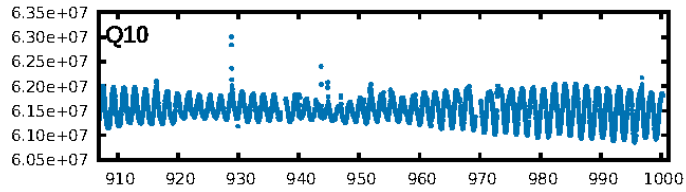
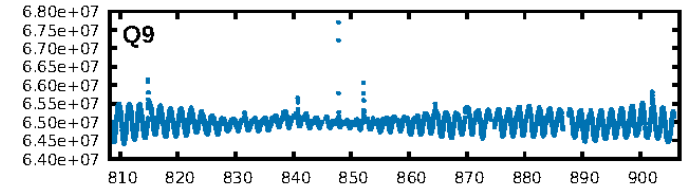
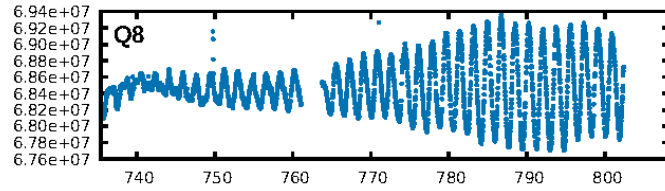
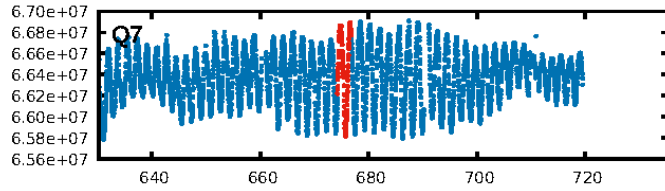
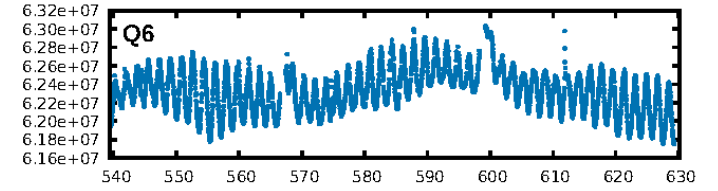
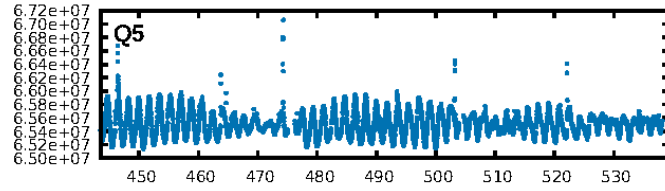
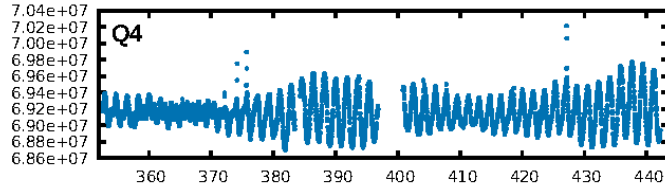
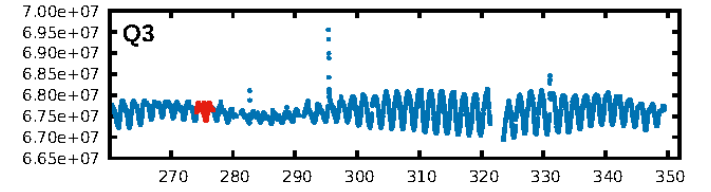
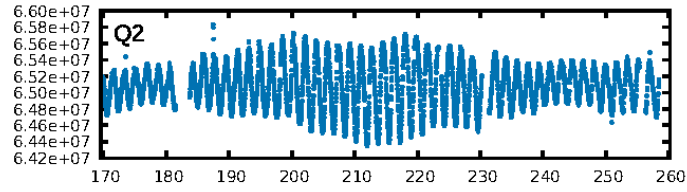
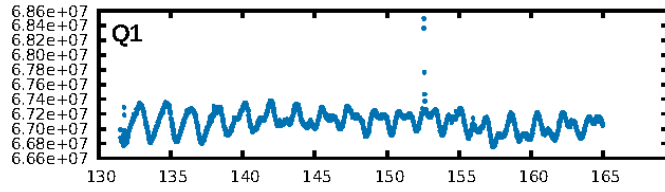
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [31.34 σ]
ModelChiSquare2-sig: 70.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.03e-13
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.03545
Centroid-sig: 5.5%
Centroid-so: 0.231 arcsec [1.81 σ]
OotOffset-rm: 0.859 arcsec [1.66 σ]
KicOffset-rm: 0.824 arcsec [1.61 σ]
OotOffset-st: 0/3/0/0 [3]
KicOffset-st: 0/3/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

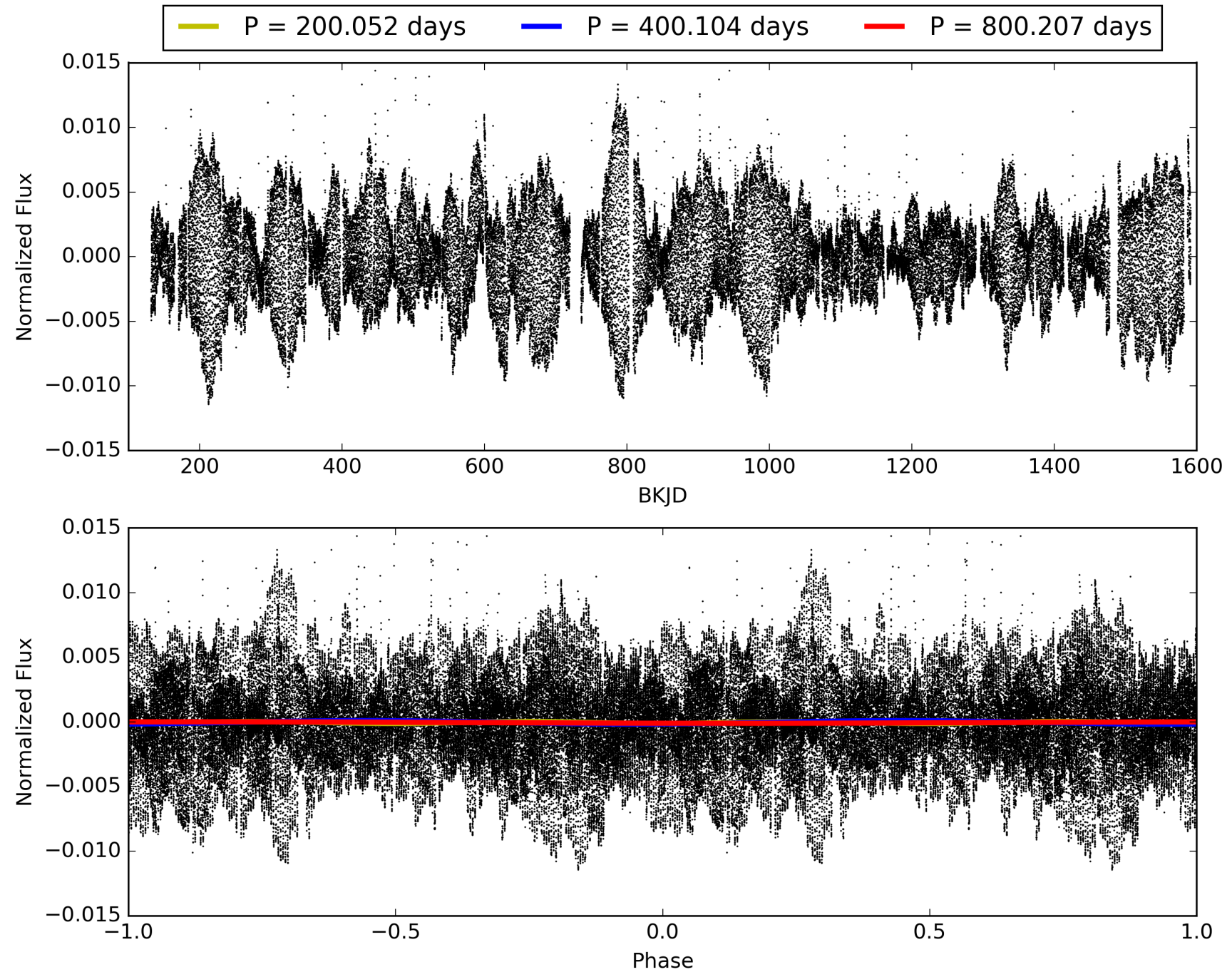
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:46:27 Z

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

TCE 011186775-01, PDC Light Curves

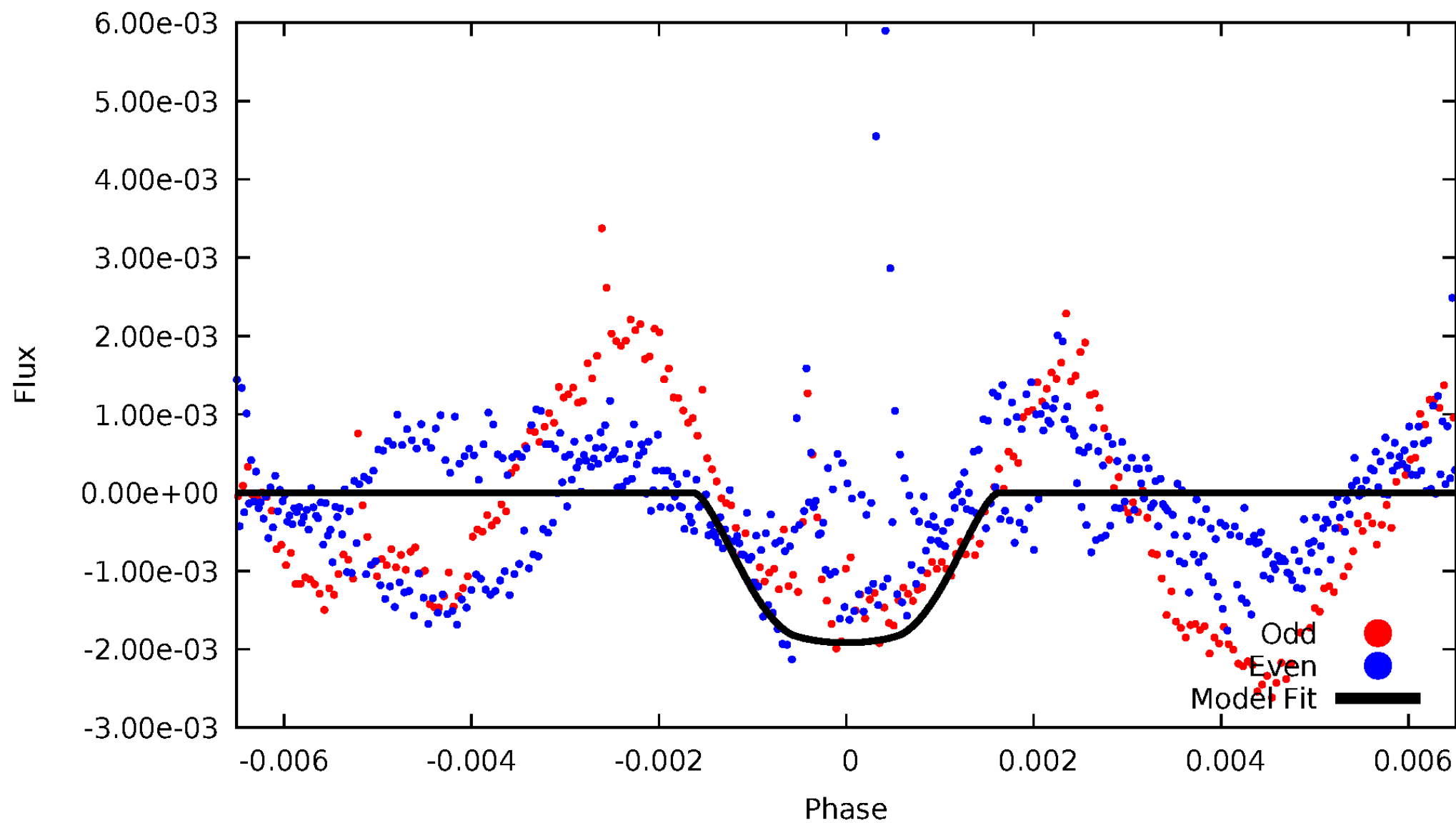


TCE 011186775-01



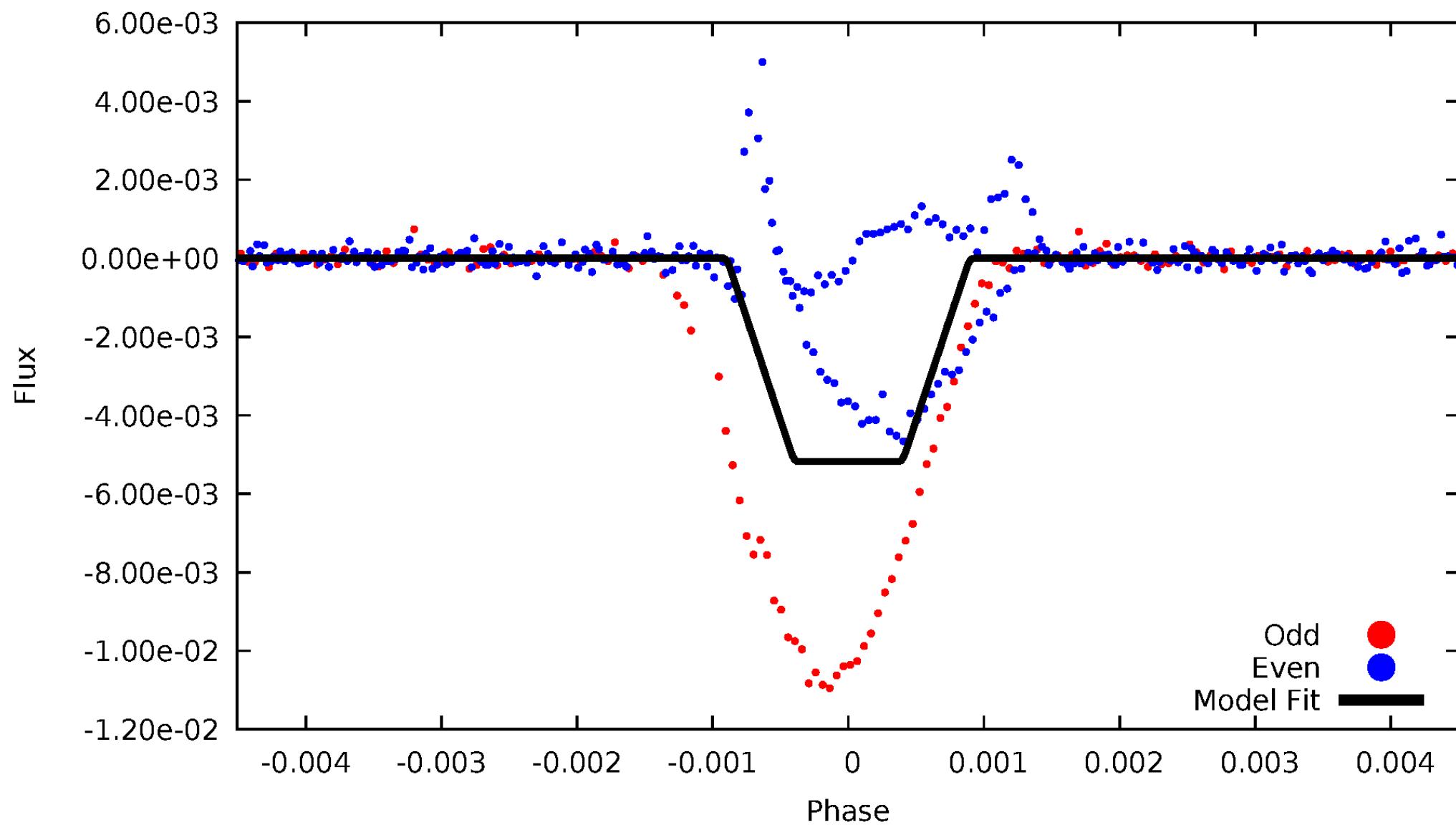
DV Odd/Even

TCE 011186775-01



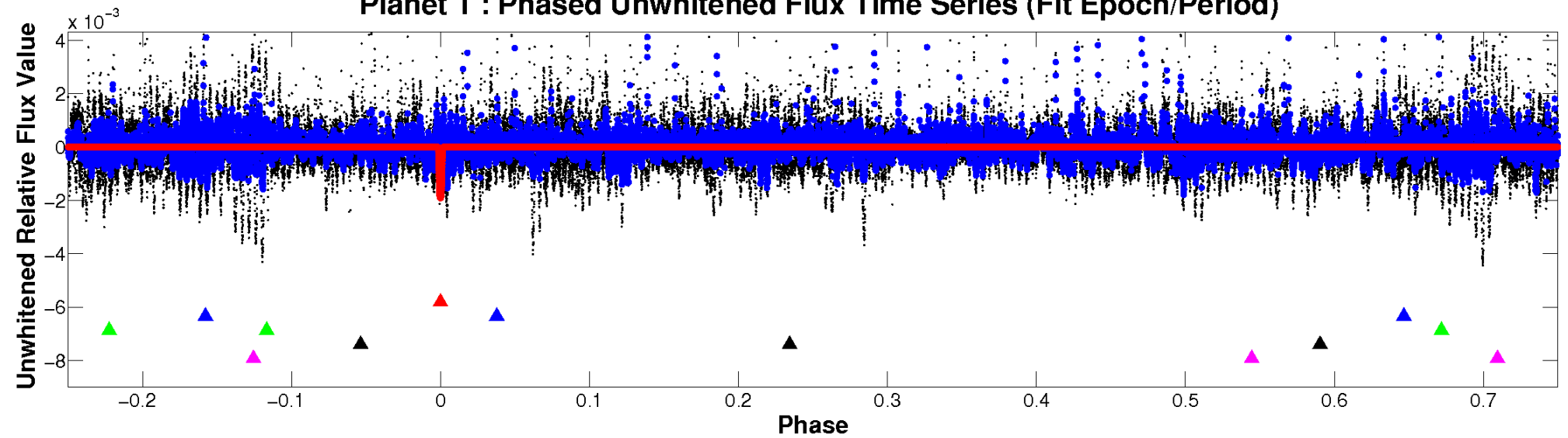
ALT Odd/Even

TCE 011186775-01

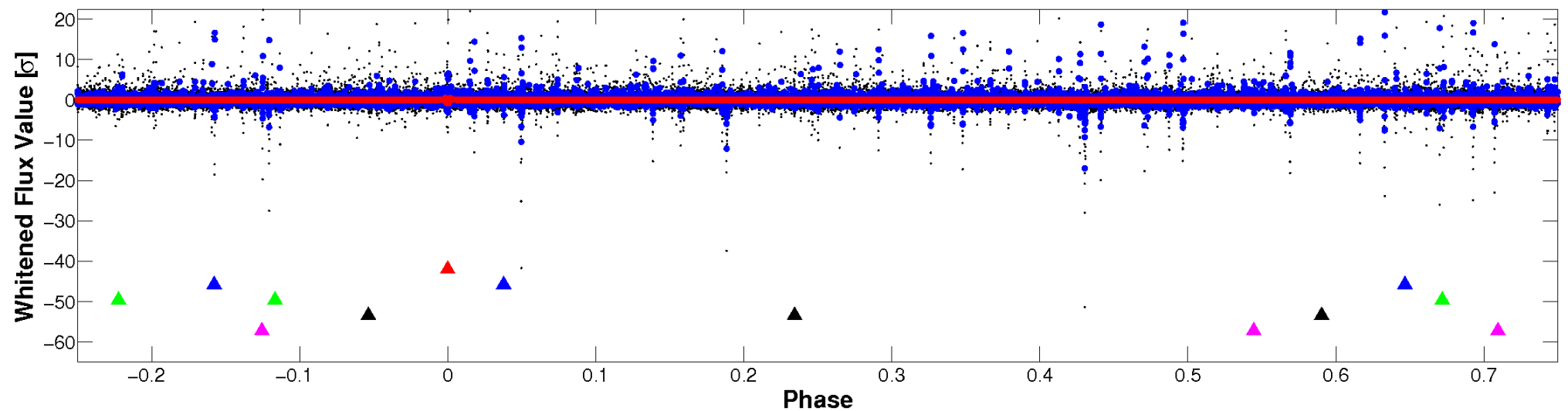


Non-Whitened Vs. Whitened Light Curve

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

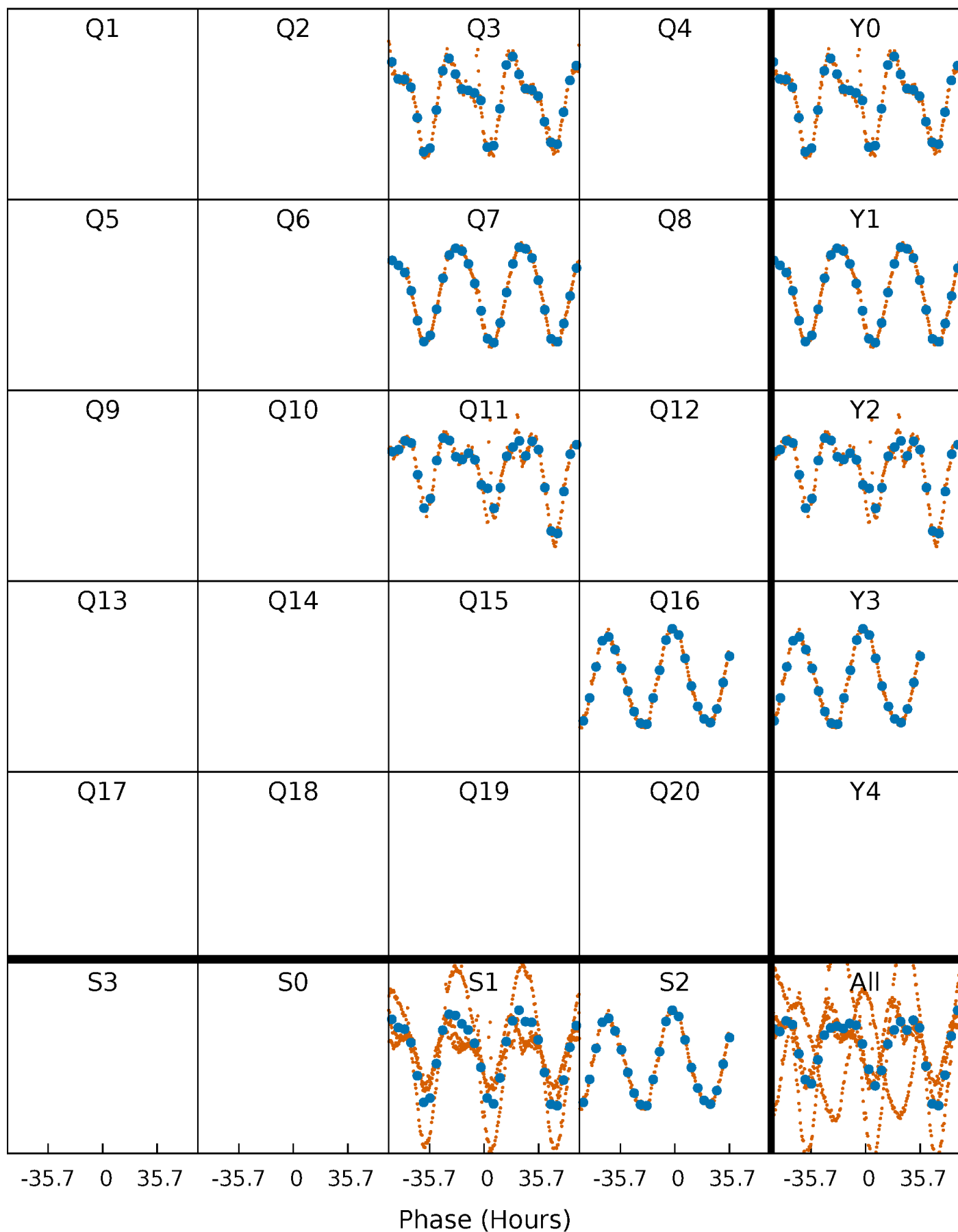


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



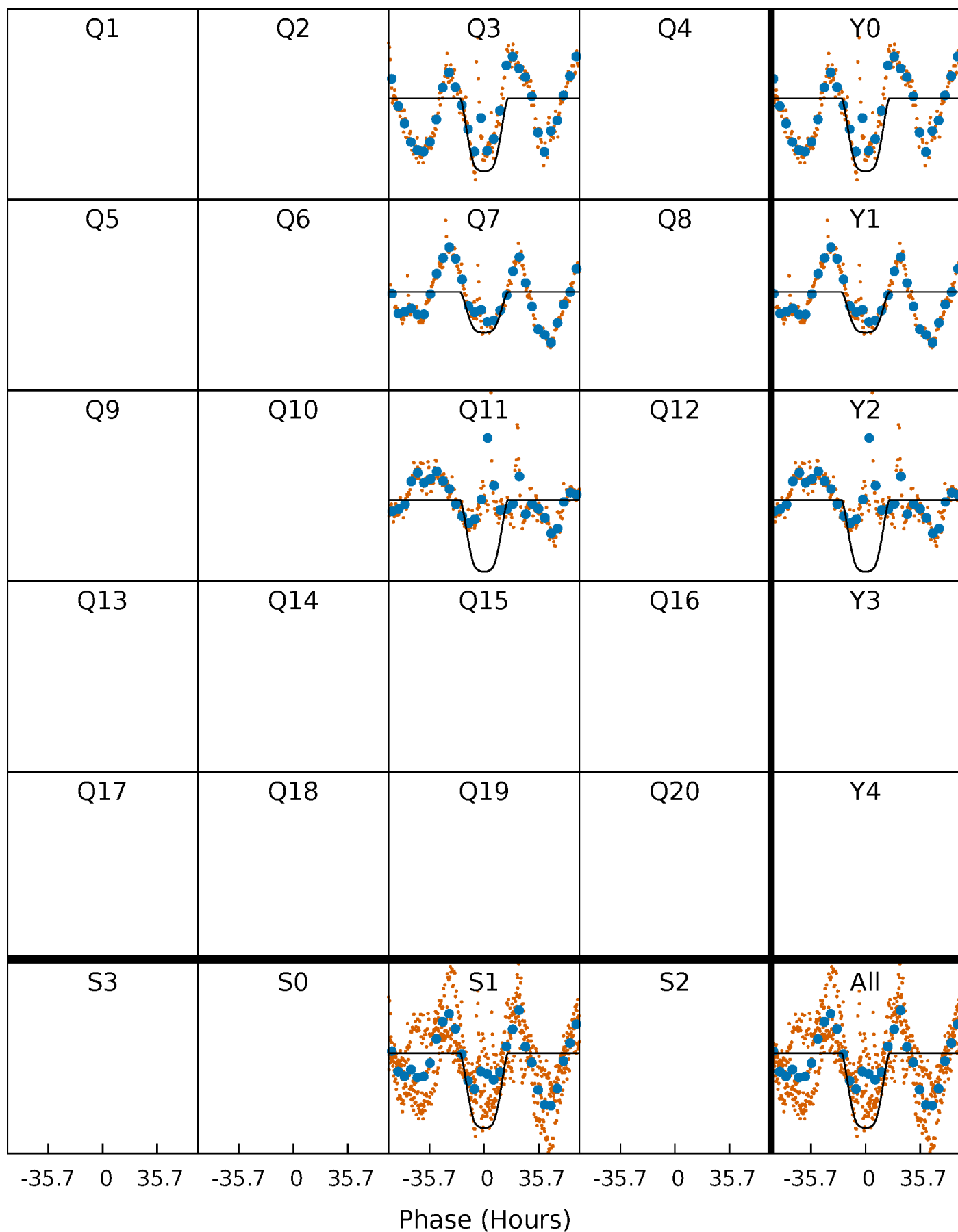
PDC Quarter-Phased Transit Curves

TCE 011186775-01 P=400.103686 Days $T_0=275.454263$ (BKJD)



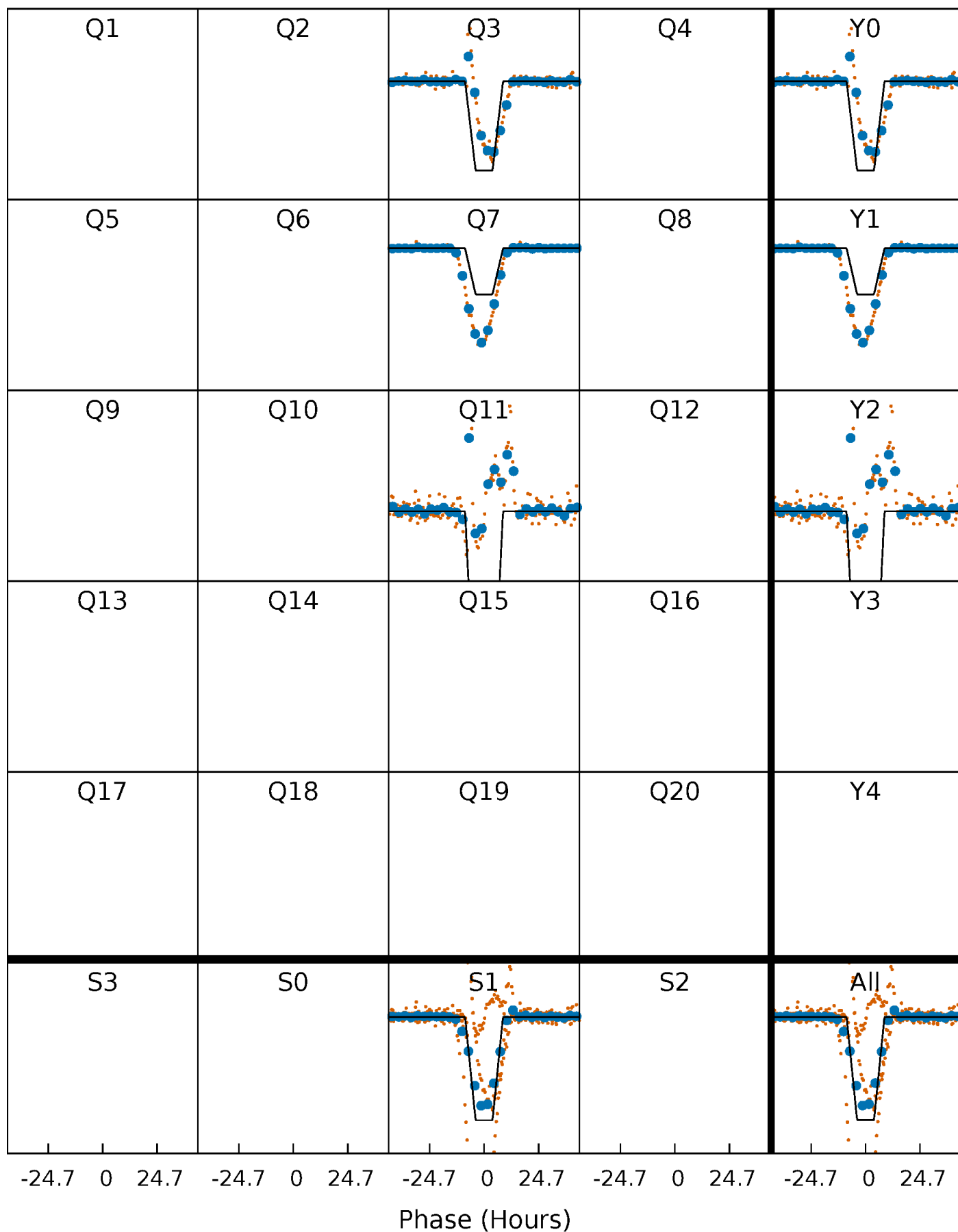
DV Quarter-Phased Transit Curves

TCE 011186775-01 P=400.103686 Days $T_0=275.454263$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

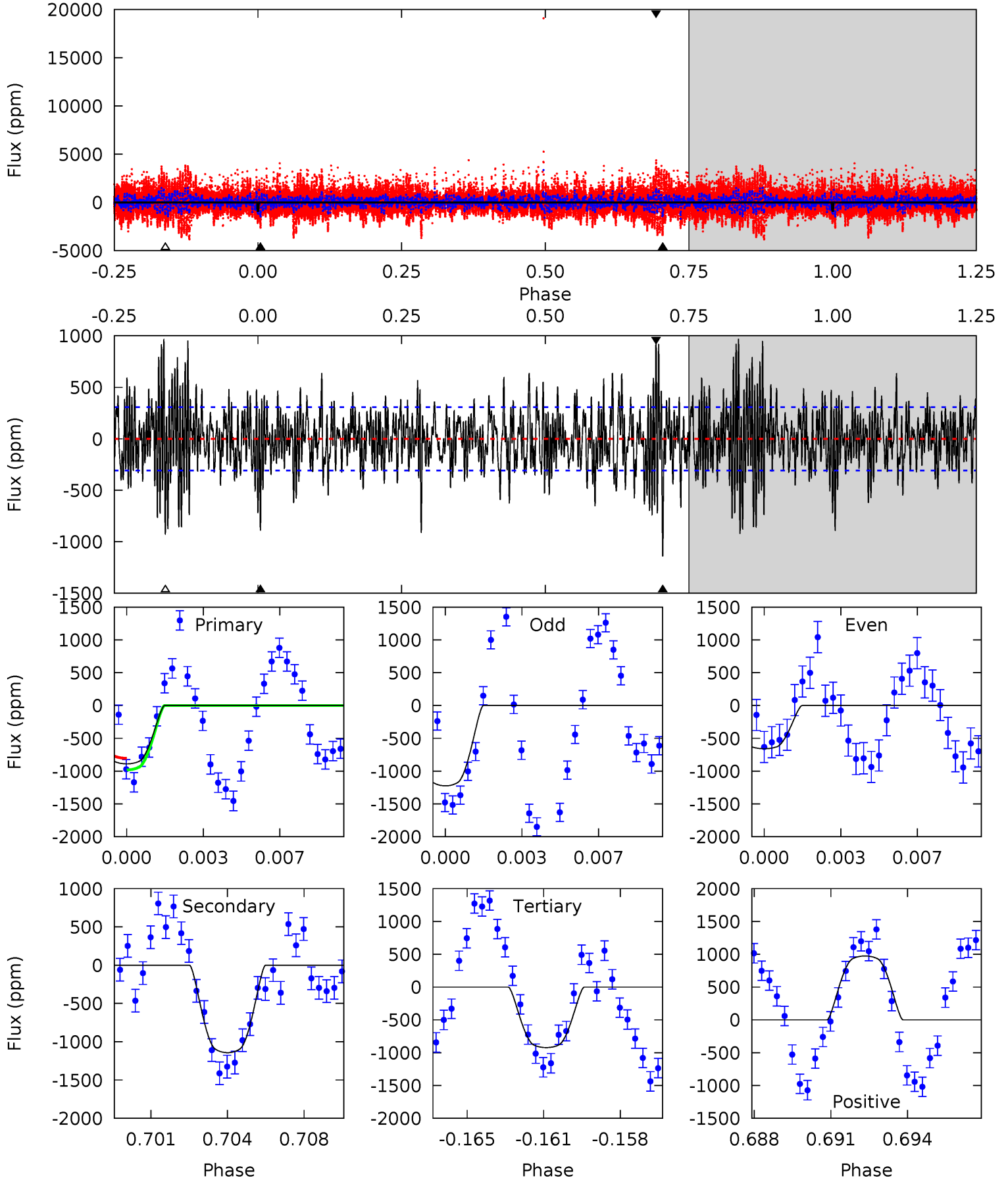
TCE 011186775-01 P=400.266196 Days $T_0=275.550017$ (BKJD)



DV Model-Shift Uniqueness Test

011186775-01, P = 400.103686 Days, E = 275.454263 Days

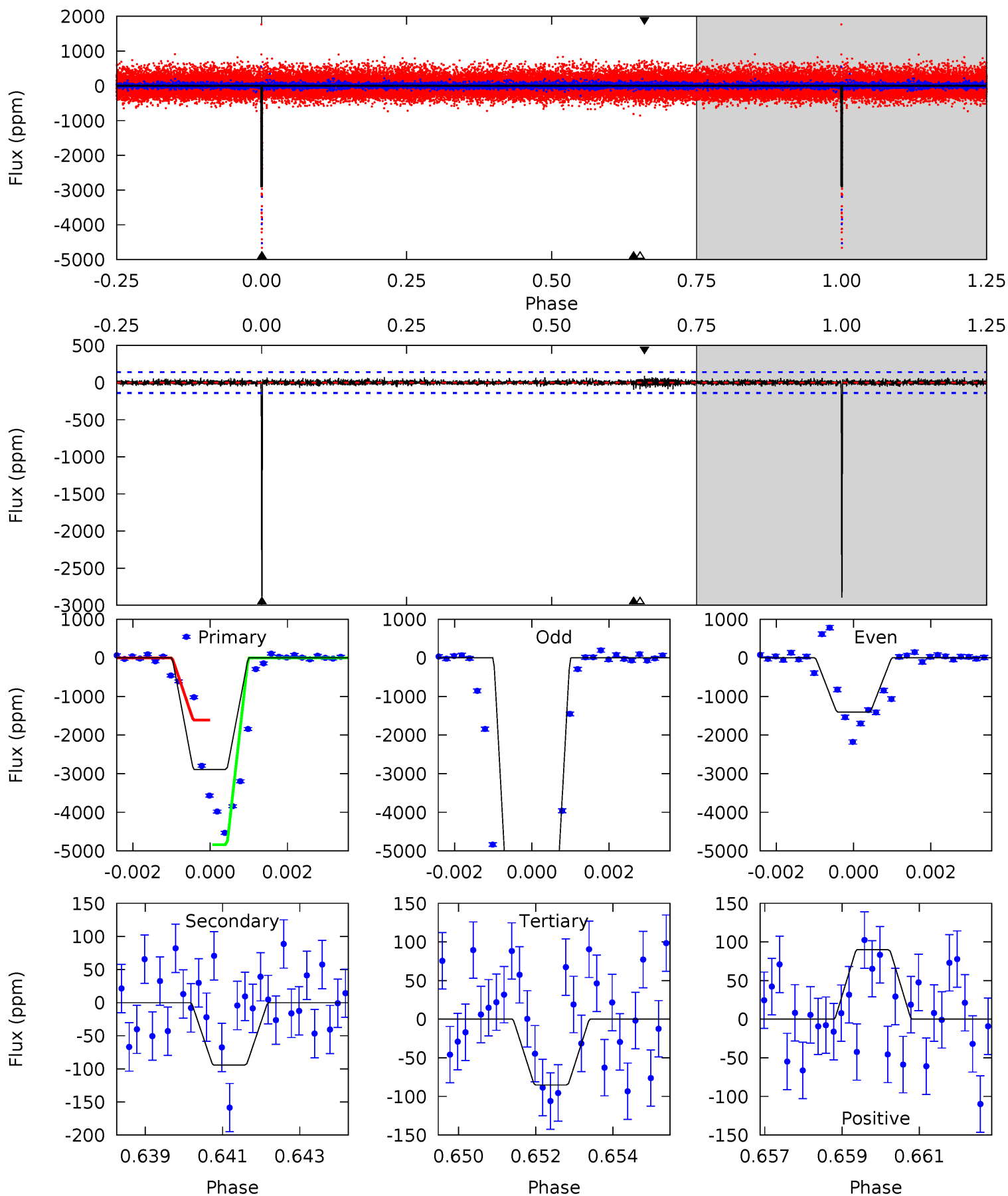
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.1	19.4	15.7	16.5	5.24	2.94	4.52	-0.56	-1.42	3.74	2.88	4.10	0.66	0.46	1.51



Alt Model-Shift Uniqueness Test

011186775-01, P = 400.266196 Days, E = 275.550017 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
110.4	3.60	3.25	3.43	5.34	3.12	0.62	107.1	107.0	0.35	0.17	233.2	1.37	0.03	61.1



Stellar Parameters For KIC 011186775

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6190^{+168}_{-186}	$4.336^{+0.175}_{-0.175}$	$-0.620^{+0.300}_{-0.300}$	$1.056^{+0.287}_{-0.191}$	$0.881^{+0.114}_{-0.076}$	$1.055^{+0.816}_{-0.503}$
	+3%/-3%	+4%/-4%	+48%/-48%	+27%/-18%	+13%/-9%	+77%/-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 011186775-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1143 ± 59	$5.65^{+1.11}_{-0.79}$	388^{+28}_{-24}	5197^{+250}_{-239}	20700^{+6756}_{-6009}
Alt.	-94 ± 26	$8.28^{+1.37}_{-0.98}$	387^{+30}_{-25}	2949^{+136}_{-131}	766^{+330}_{-259}

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

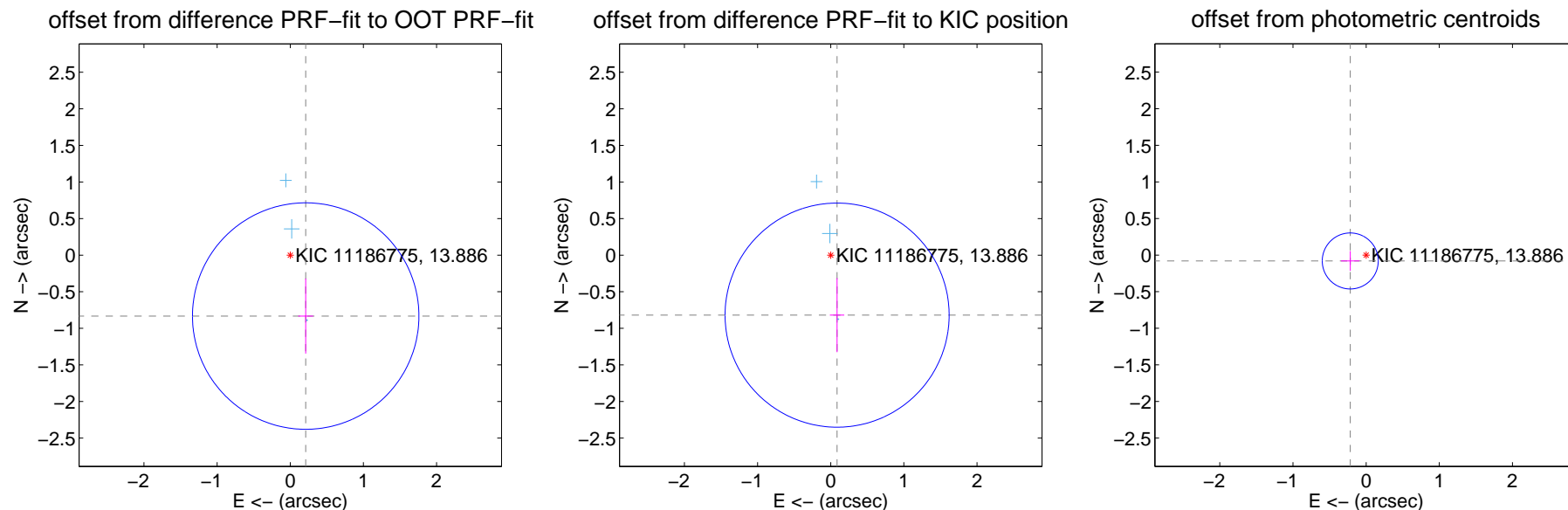
DV Centroid Data

Supplemental centroid analysis for 011186775-01. Kepler magnitude: 13.89. Transit SNR 6.62

There are 3 quarters with good PRF difference image offsets

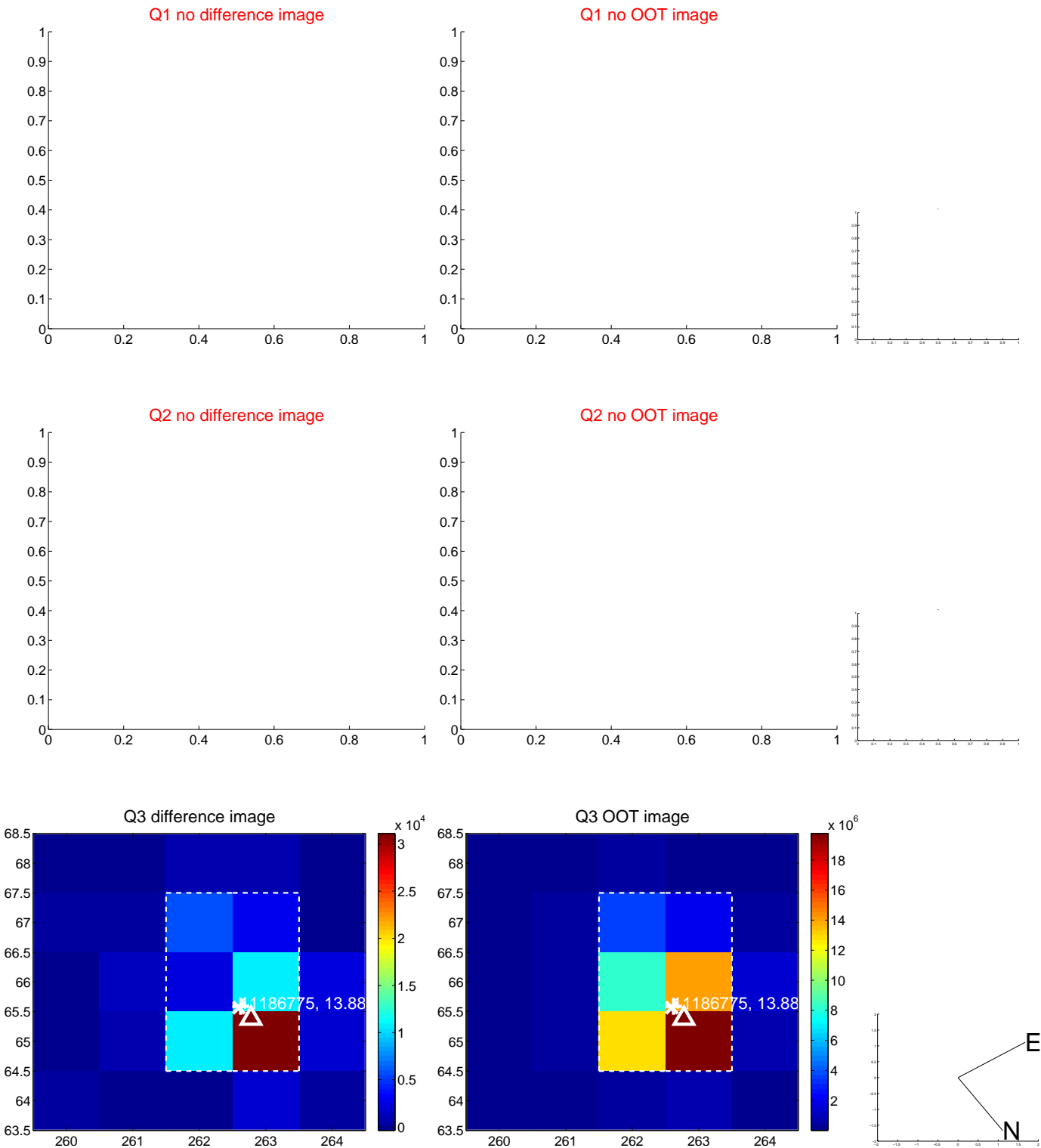
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.859 ± 0.516	1.66	-0.211 ± 0.102	-0.832 ± 0.513
PRF-fit source offset from KIC position	0.824 ± 0.510	1.61	-0.087 ± 0.099	-0.820 ± 0.506
photometric centroid source offset	0.23 ± 0.13	1.81	0.22 ± 0.13	-0.08 ± 0.14



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.



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Q5 no difference image



Q5 no OOT image



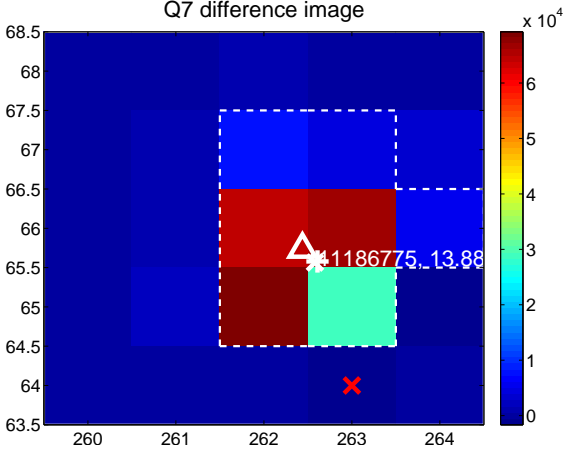
Q6 no difference image



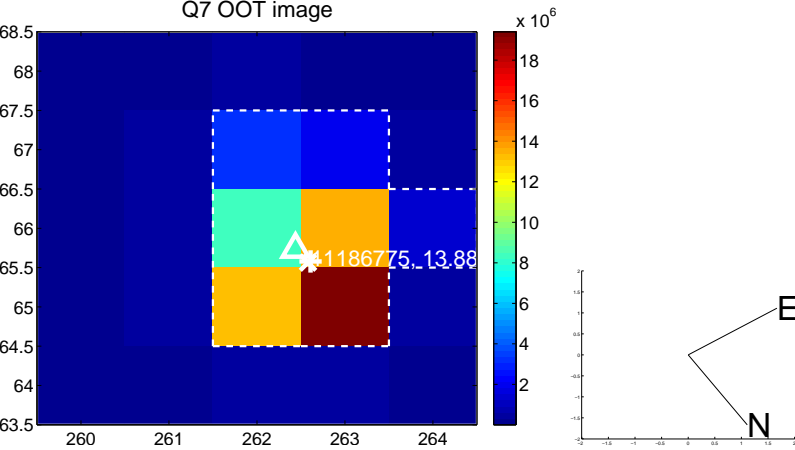
Q6 no OOT image



Q7 difference image



Q7 OOT image



Q8 no difference image



Q8 no OOT image



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

Q9 no difference image



Q9 no OOT image



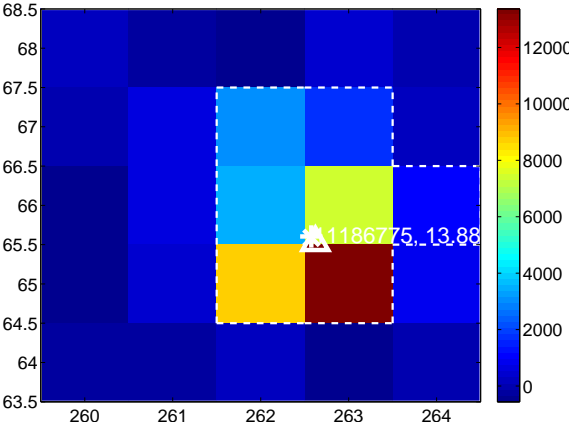
Q10 no difference image



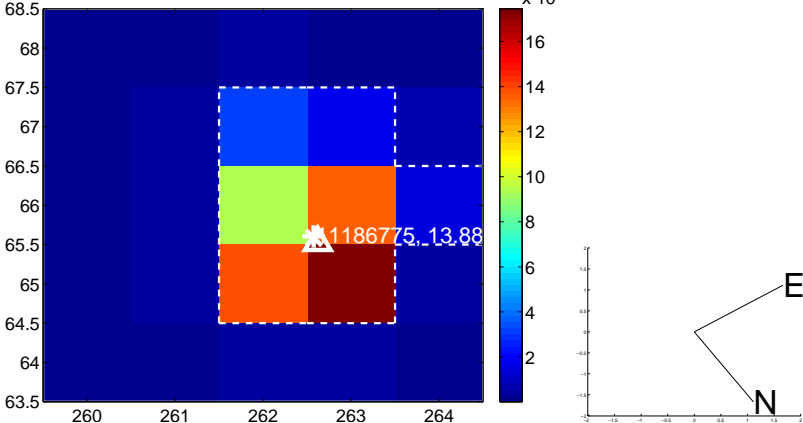
Q10 no OOT image



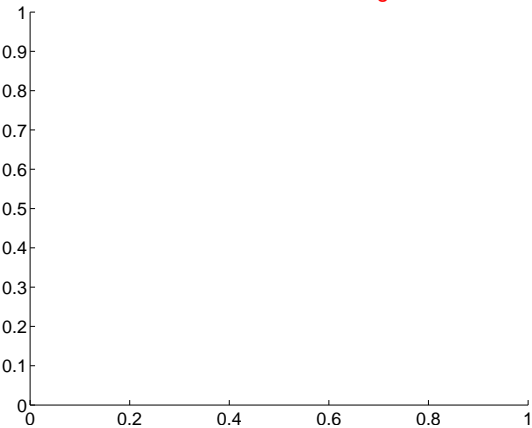
Q11 difference image



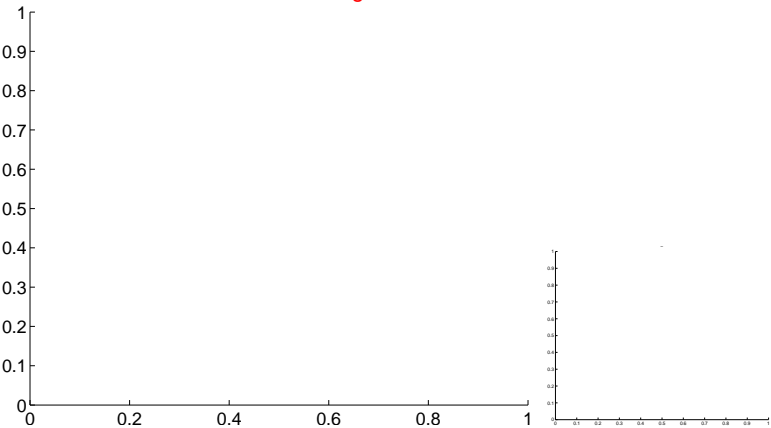
Q11 OOT image



Q12 no difference image



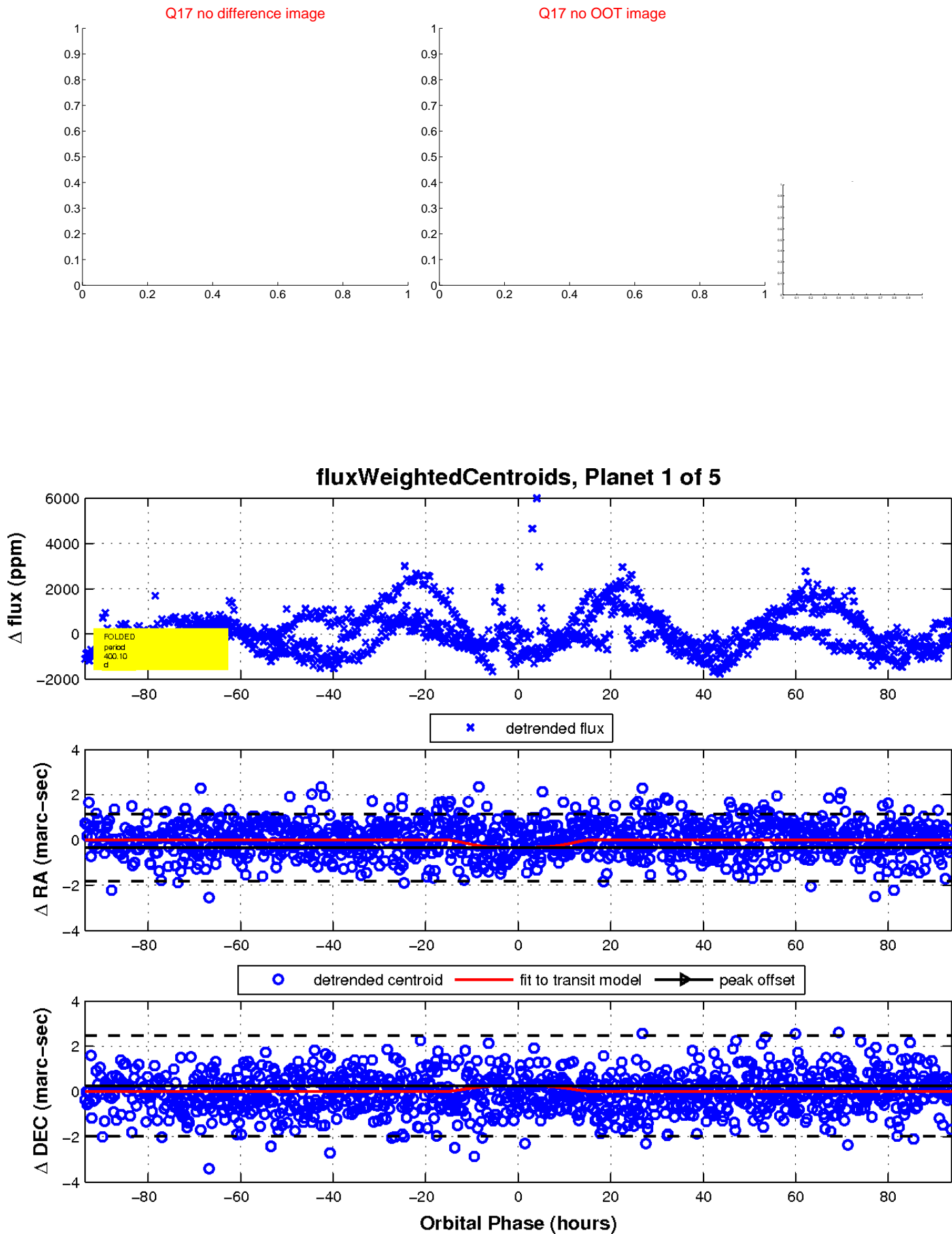
Q12 no OOT image



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

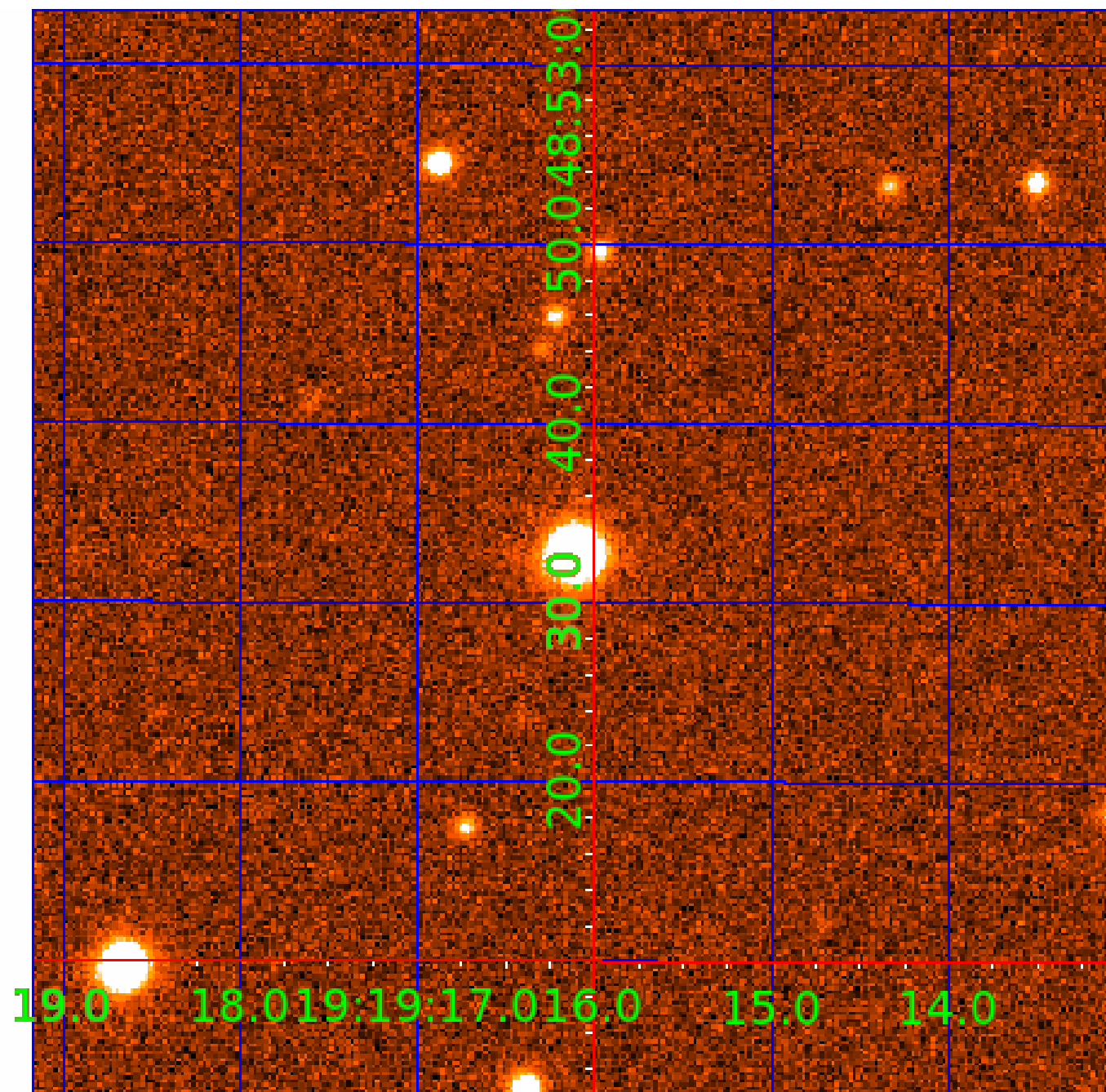


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011186775

Q1-17 DR25 TCE Parameters

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011186775-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011186775-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—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.

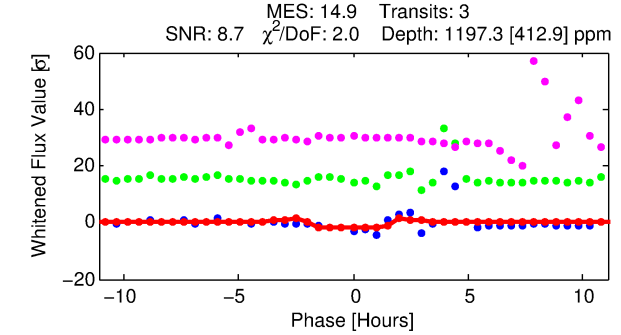
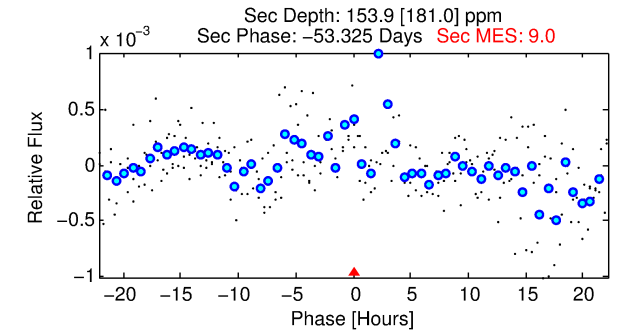
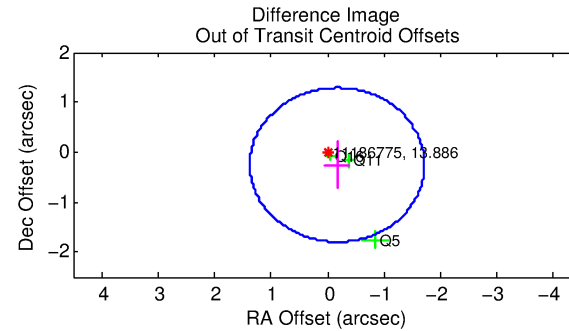
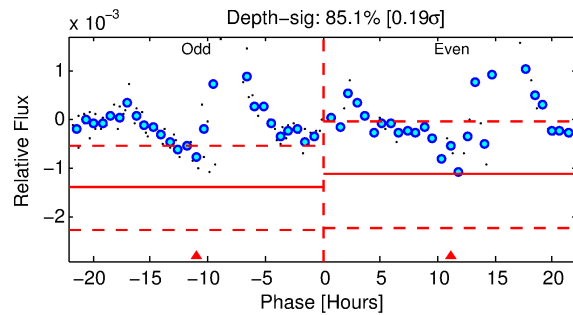
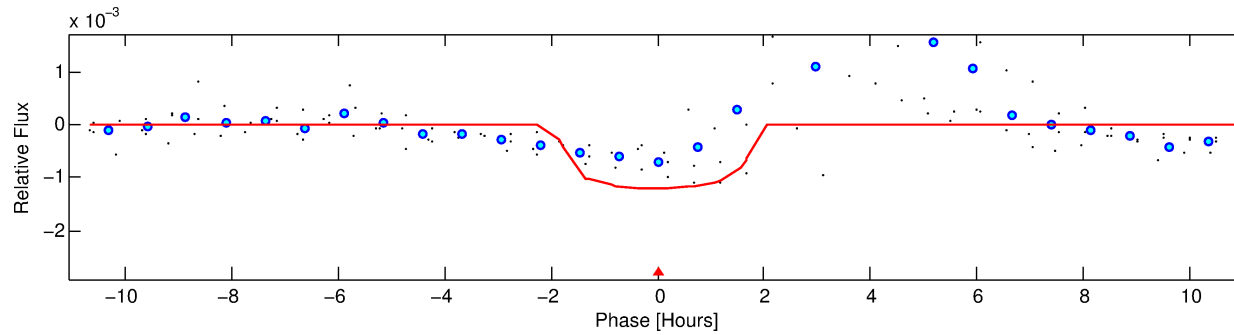
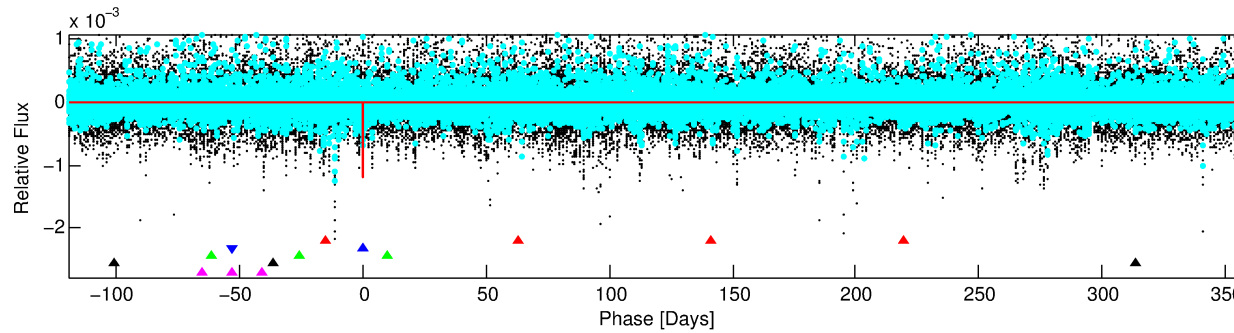
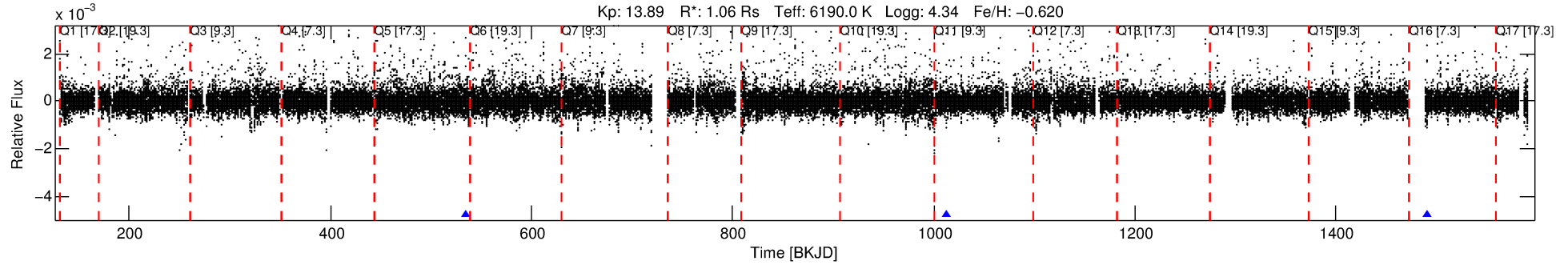
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011186775-02

No Significant Match Found

DV One-Page Summary

KIC: 11186775 Candidate: 2 of 5 Period: 478.347 d



DV Fit Results:

Period = 478.34720 [0.00809] d
Epoch = 534.1936 [0.0135] BKJD
Rp/R* = 0.0320 [0.1183]
a/R* = 994.91 [19024.95]
b = 0.23 [78.61]
Seff = 1.11 [0.38]
Teq = 262 [23] K
Rp = 3.69 [13.67] Re
a = 1.1481 [0.2589] AU
Ag = 8198.20 [61429.37] [0.13 σ]
Teffp = 3853 [7212] K [0.50 σ]

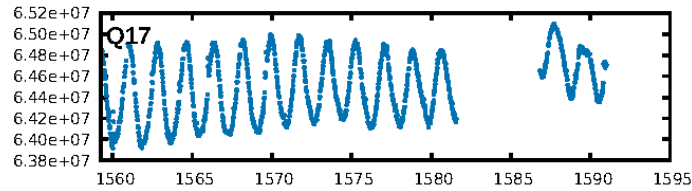
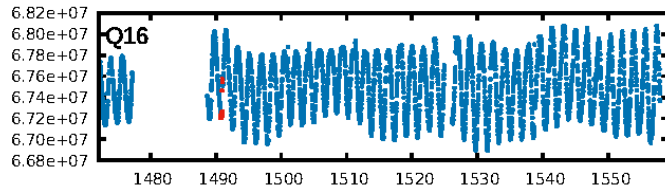
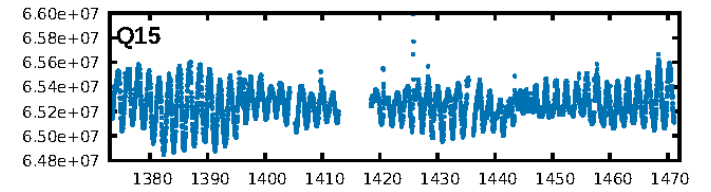
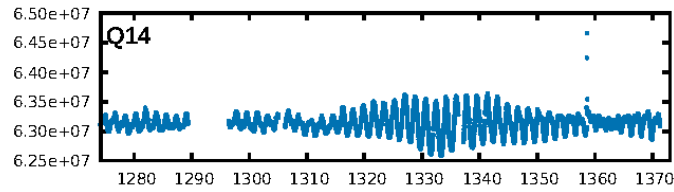
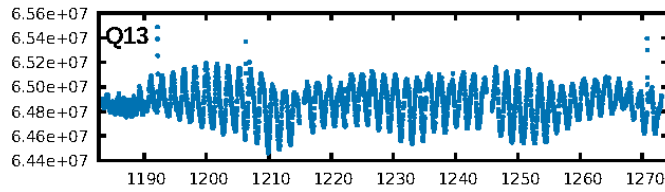
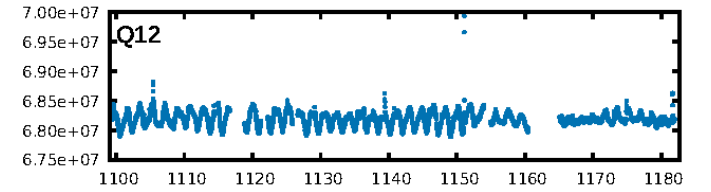
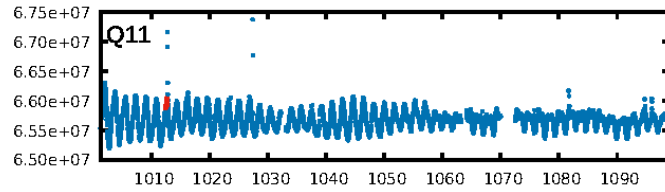
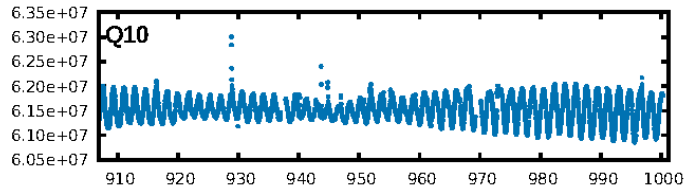
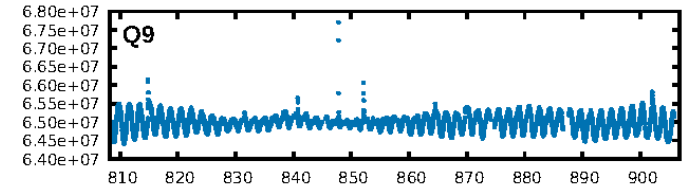
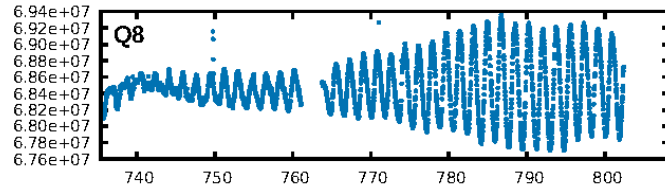
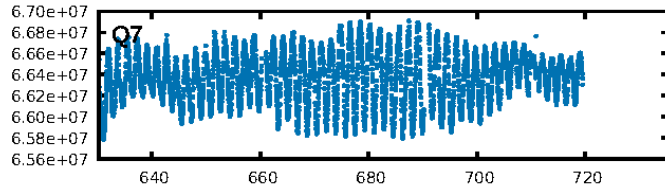
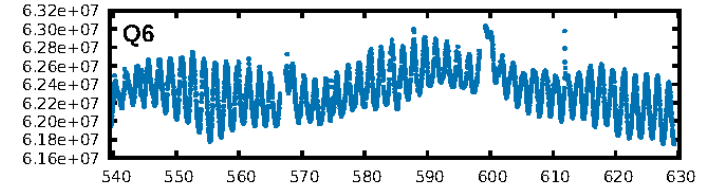
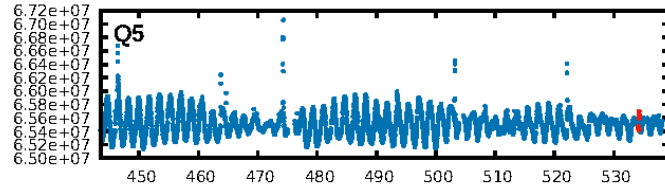
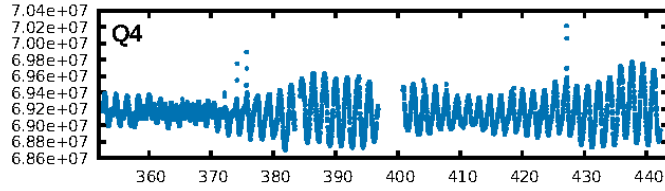
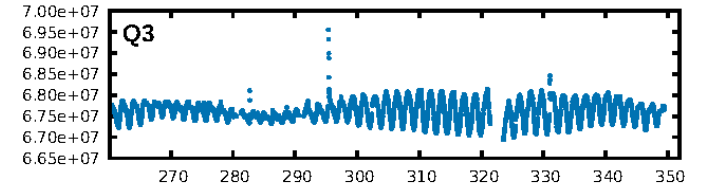
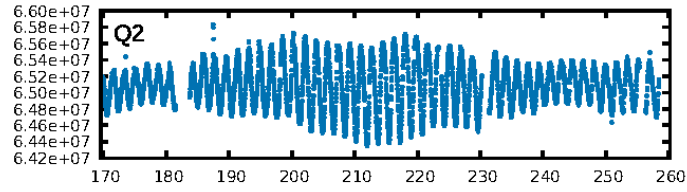
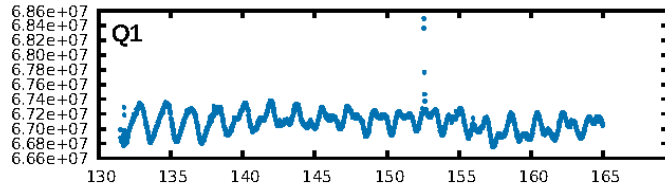
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [50.93 σ]
LongPeriod-sig: 100.0% [136.62 σ]
ModelChiSquare2-sig: 6.6%
ModelChiSquareGof-sig: 49.4%
Bootstrap-pfa: 3.02e-13
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.8519
Centroid-sig: 51.6%
Centroid-so: 0.377 arcsec [0.80 σ]
OotOffset-rm: 0.306 arcsec [0.59 σ]
KicOffset-rm: 0.333 arcsec [0.63 σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

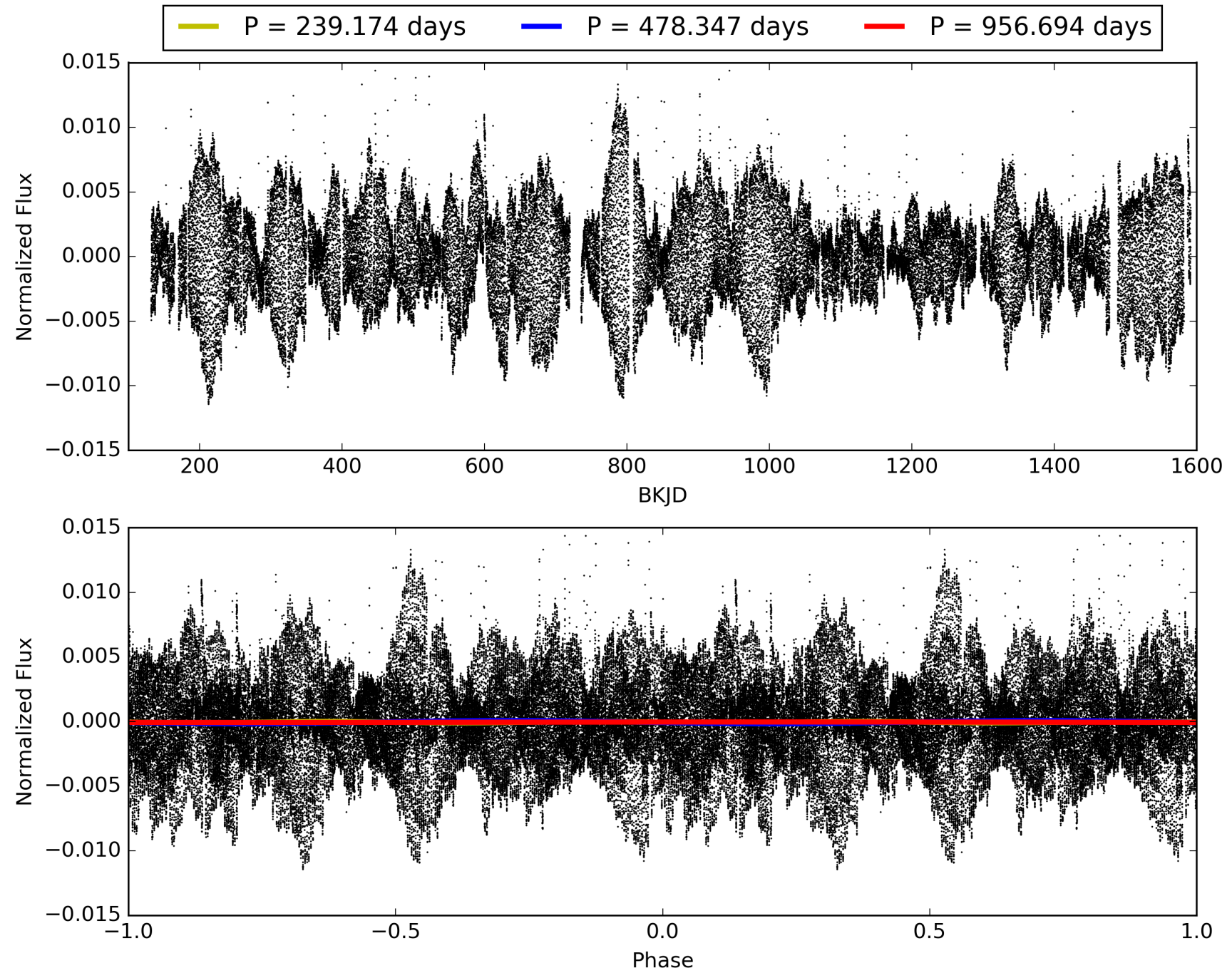
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:46:45 Z

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

TCE 011186775-02, PDC Light Curves

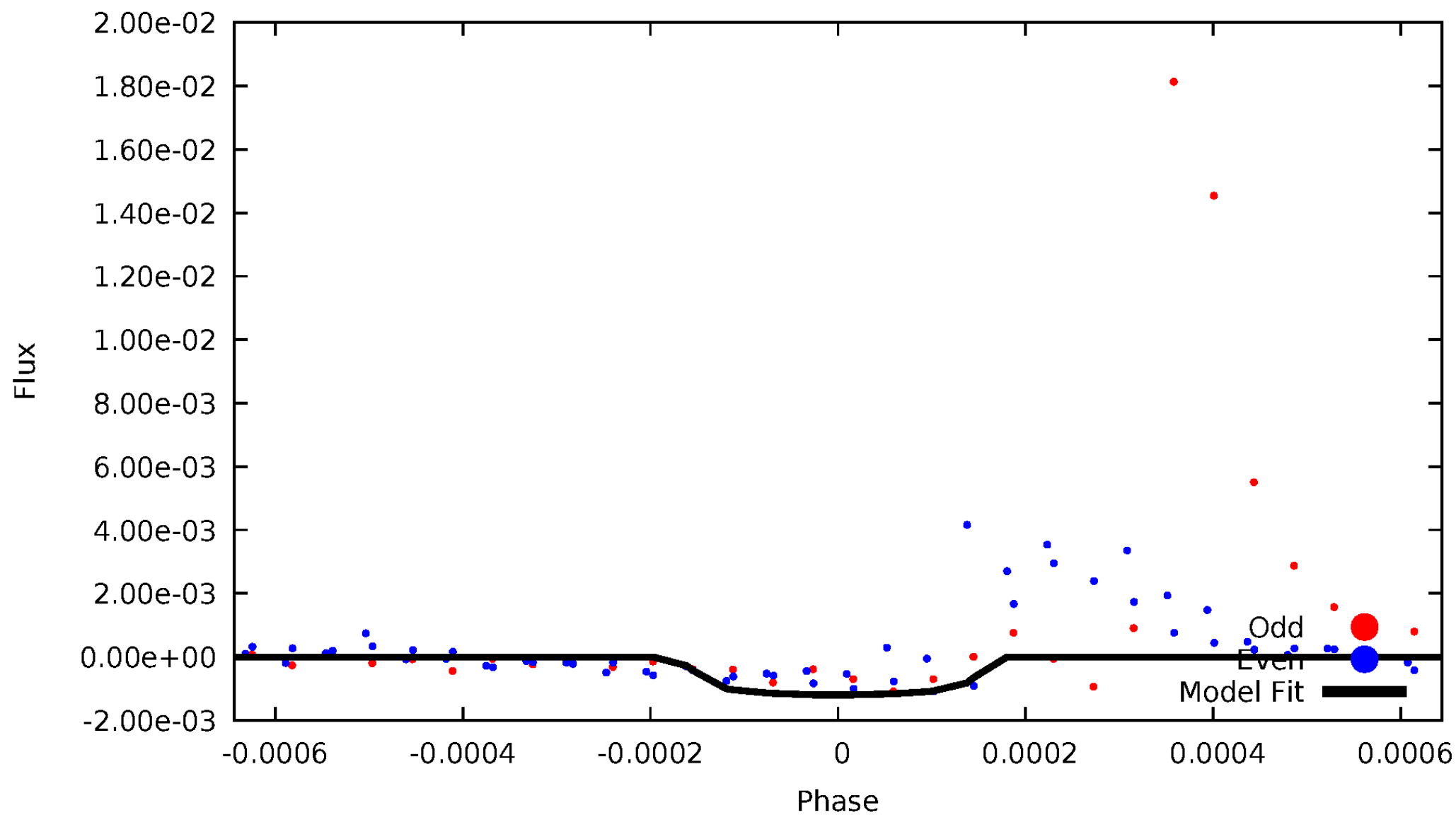


TCE 011186775-02



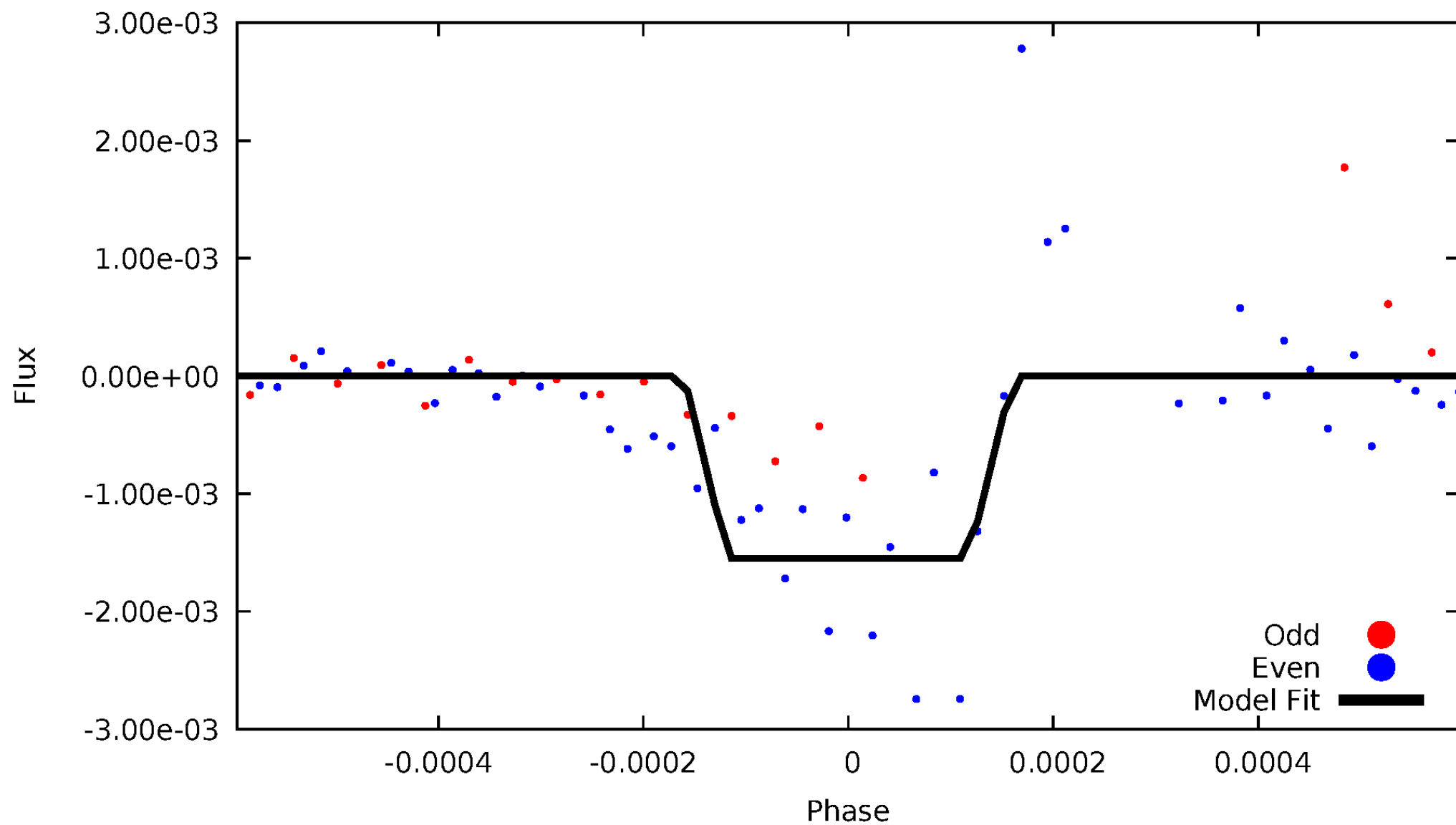
DV Odd/Even

TCE 011186775-02



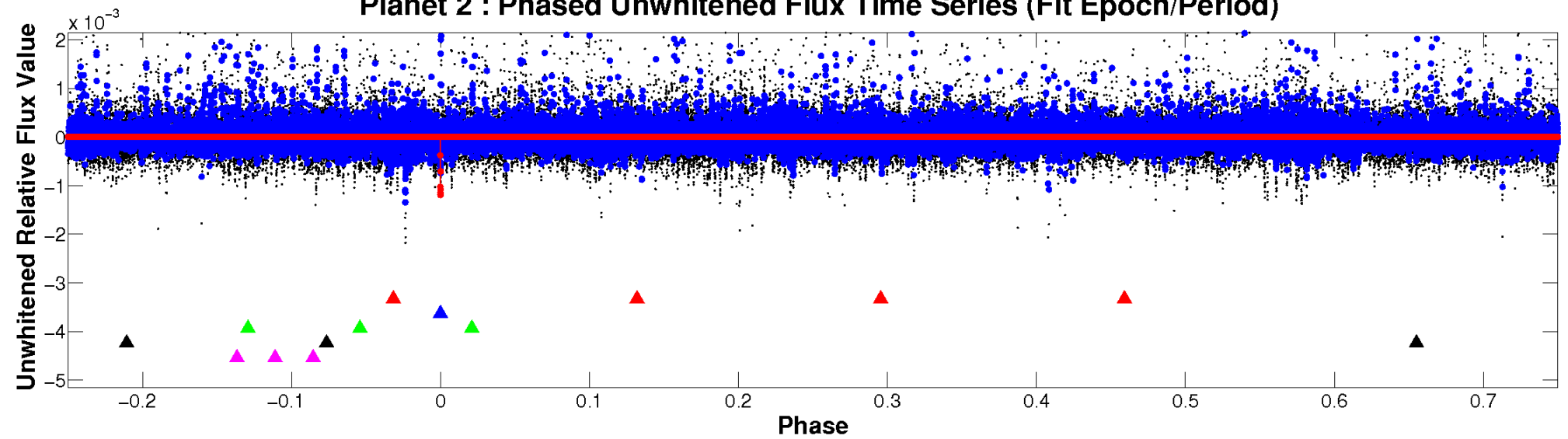
ALT Odd/Even

TCE 011186775-02

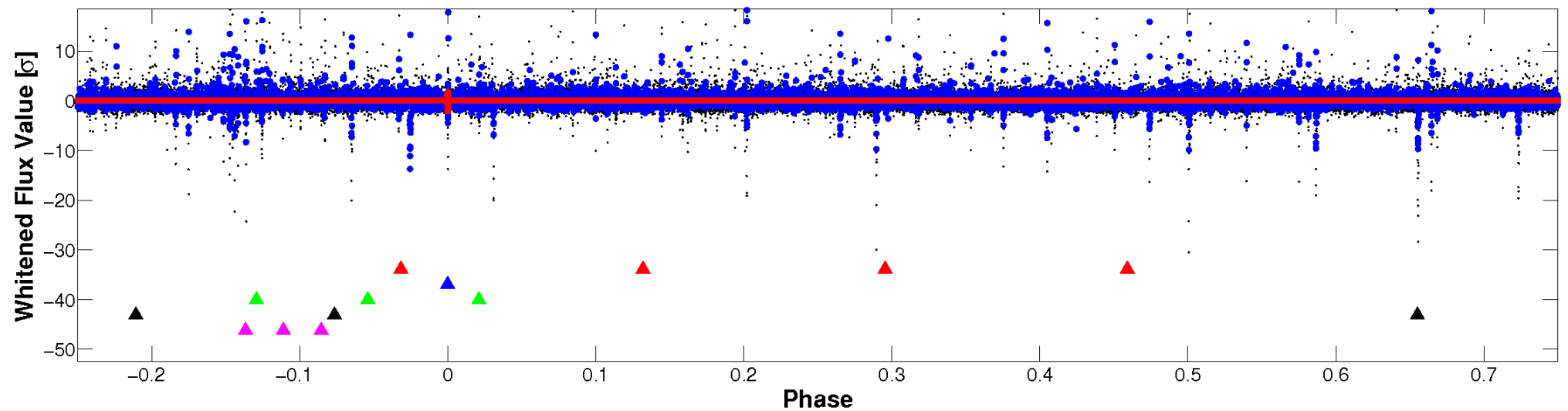


Non-Whitened Vs. Whitened Light Curve

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

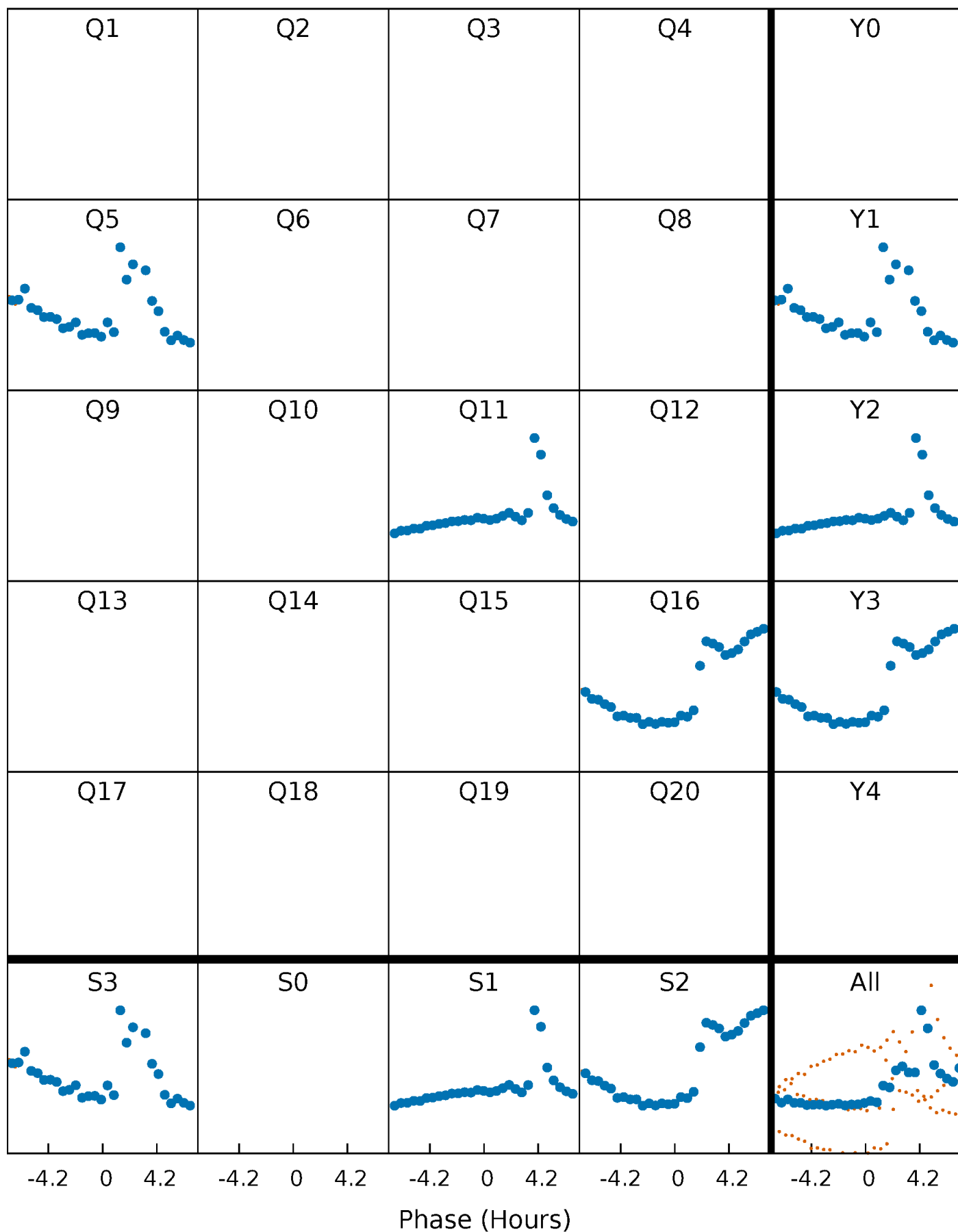


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



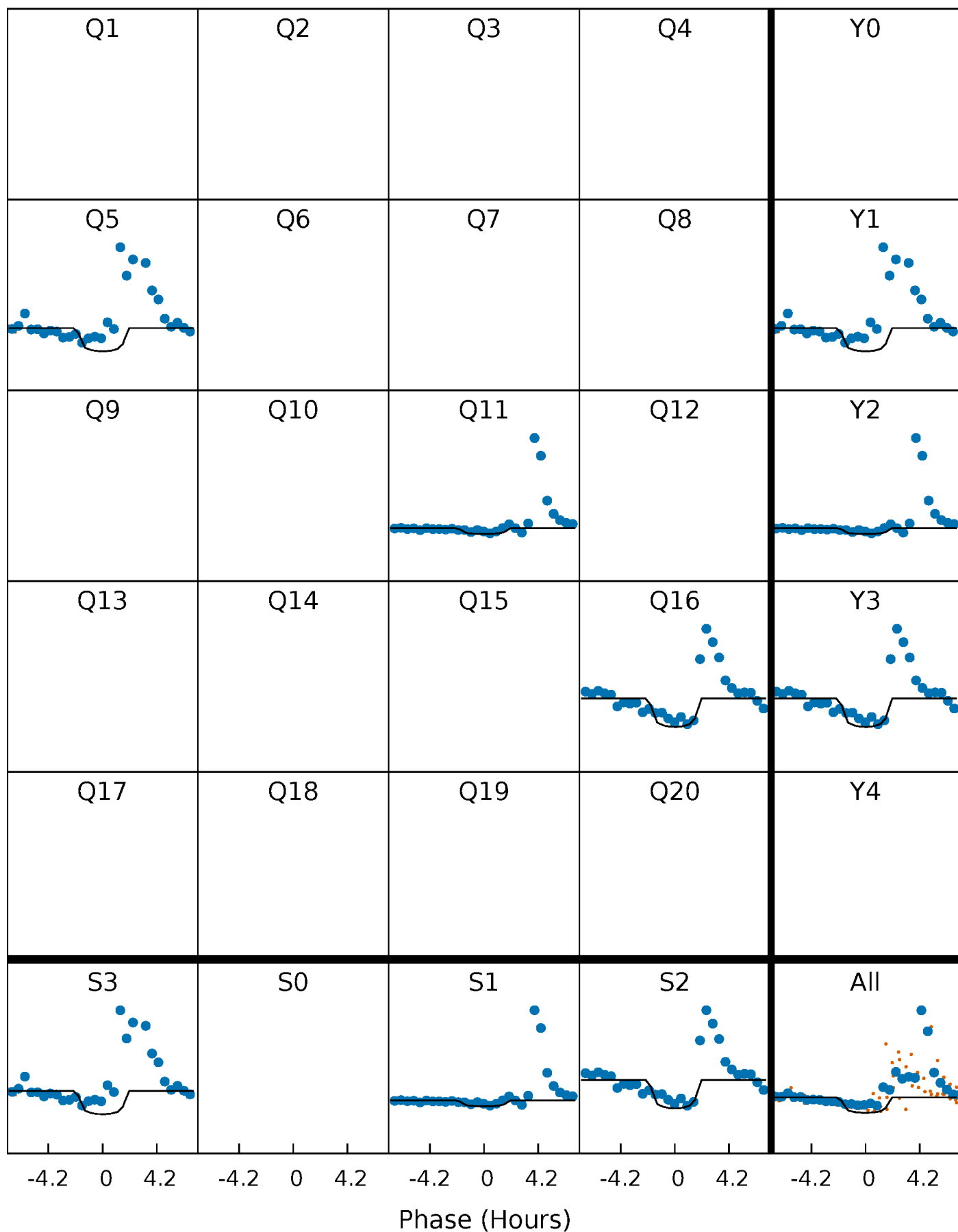
PDC Quarter-Phased Transit Curves

TCE 011186775-02 $P=478.347195$ Days $T_0=534.193598$ (BKJD)



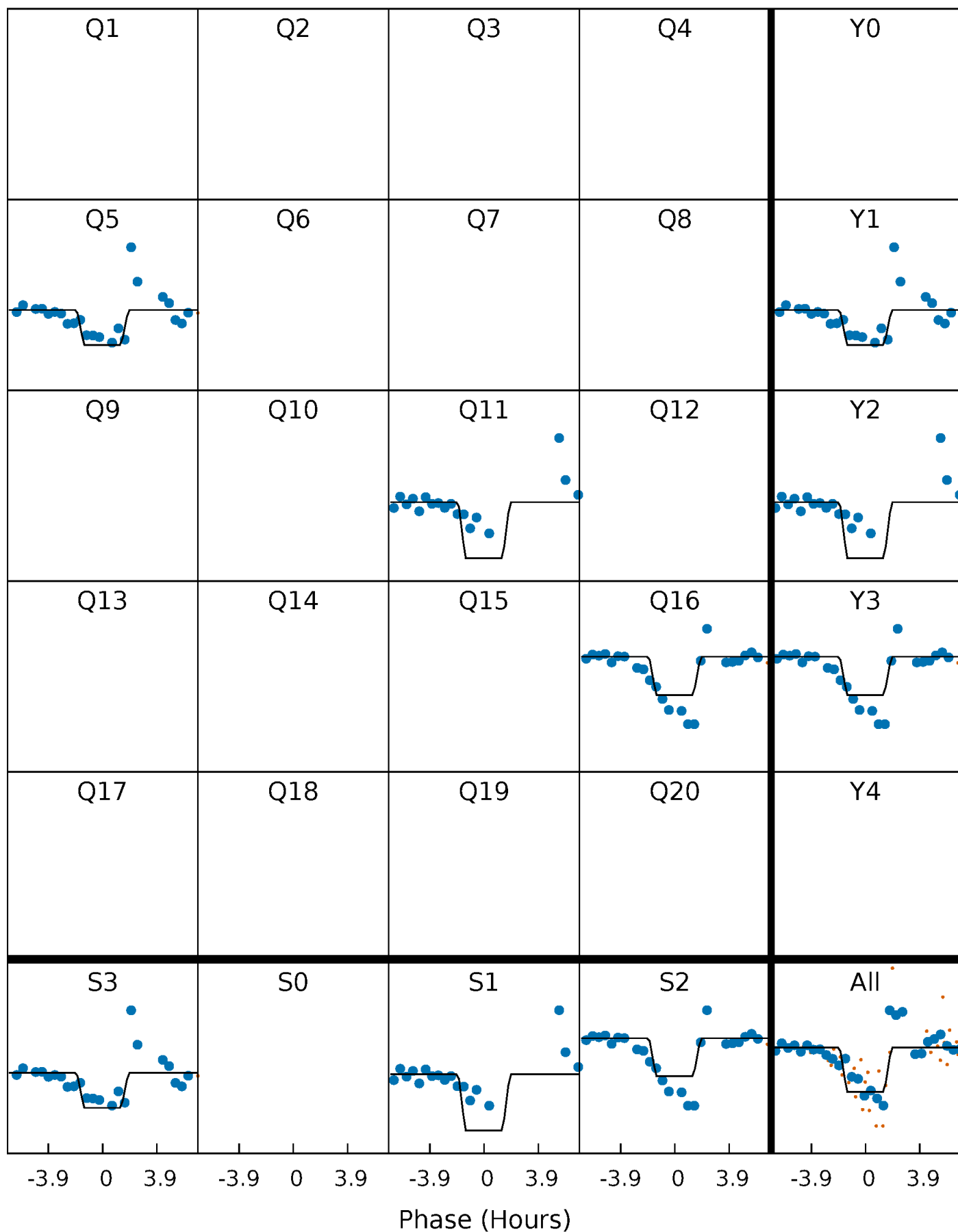
DV Quarter-Phased Transit Curves

TCE 011186775-02 P=478.347195 Days $T_0=534.193598$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

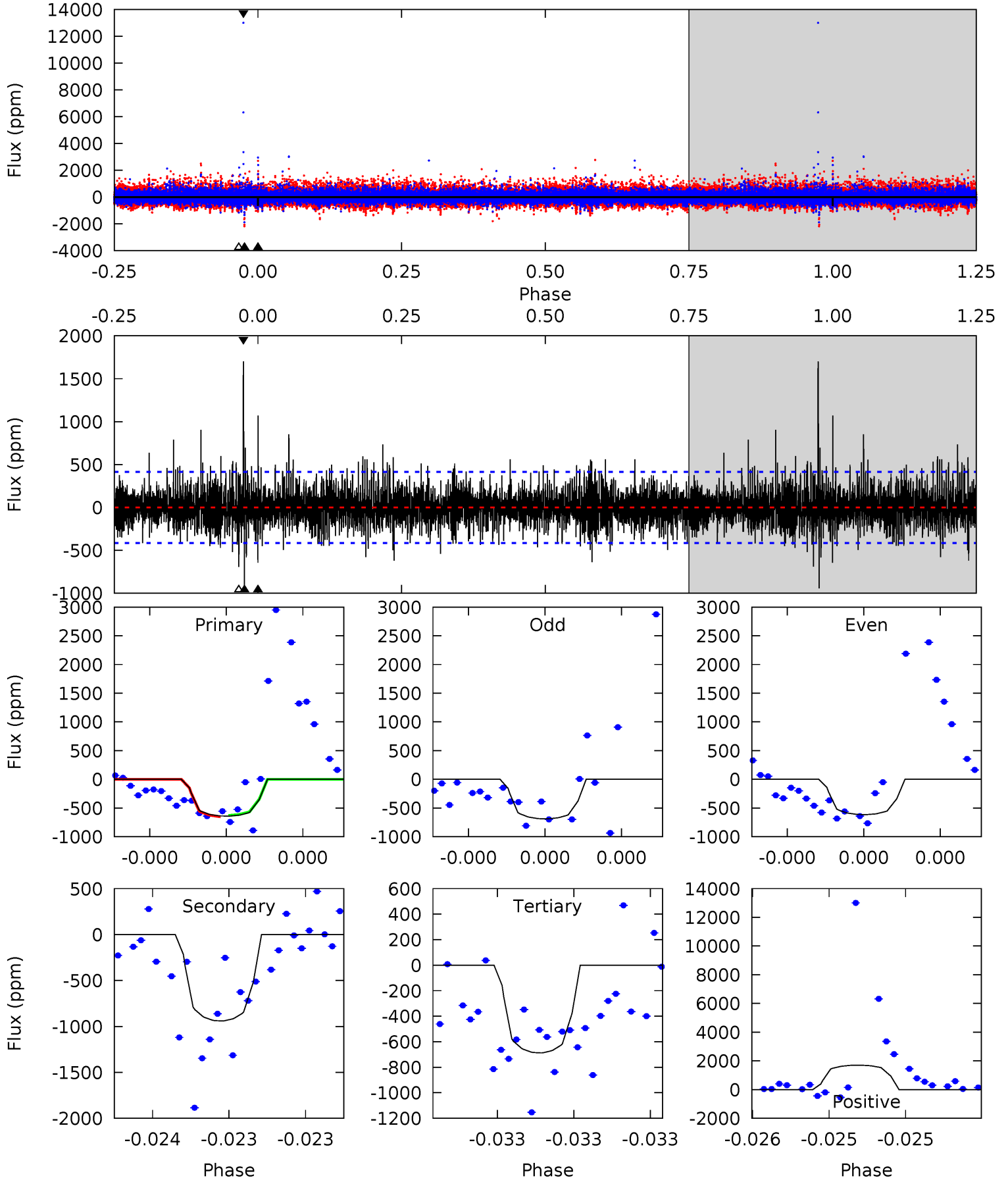
TCE 011186775-02 P=478.363262 Days $T_0=534.178492$ (BKJD)



DV Model-Shift Uniqueness Test

011186775-02, P = 478.347195 Days, E = 55.846403 Days

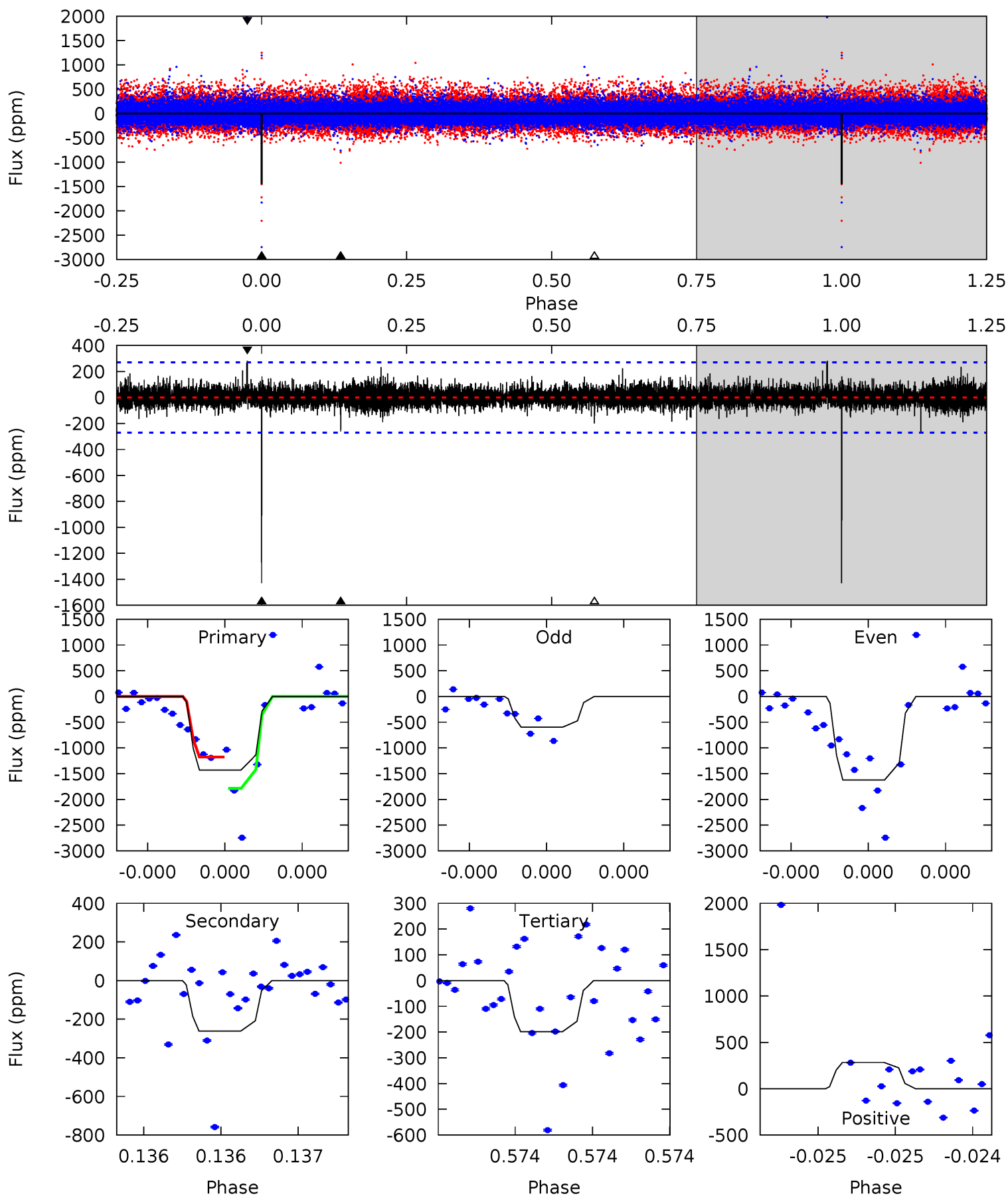
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.71	12.8	9.34	23.1	5.64	3.59	2.19	-0.63	-14.4	3.44	-10.3	0.33	0.70	0.64	0.15



Alt Model-Shift Uniqueness Test

011186775-02, P = 478.363262 Days, E = 55.815230 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.9	5.47	4.16	5.91	5.65	3.60	0.88	25.7	23.9	1.31	-0.44	9.73	1.12	0.17	6.39



Stellar Parameters For KIC 011186775

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6190^{+168}_{-186}	$4.336^{+0.175}_{-0.175}$	$-0.620^{+0.300}_{-0.300}$	$1.056^{+0.287}_{-0.191}$	$0.881^{+0.114}_{-0.076}$	$1.055^{+0.816}_{-0.503}$
	+3%/-3%	+4%/-4%	+48%/-48%	+27%/-18%	+13%/-9%	+77%/-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 011186775-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-941 ± 74	$10.58^{+11.17}_{-6.95}$	365^{+27}_{-23}	3920^{+2205}_{-773}	6278^{+46056}_{-4839}
Alt.	-262 ± 48	$11.33^{+11.35}_{-7.32}$	366^{+25}_{-23}	3115^{+1349}_{-523}	1419^{+10135}_{-1068}

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 $A_{obs} \gg 1.0$

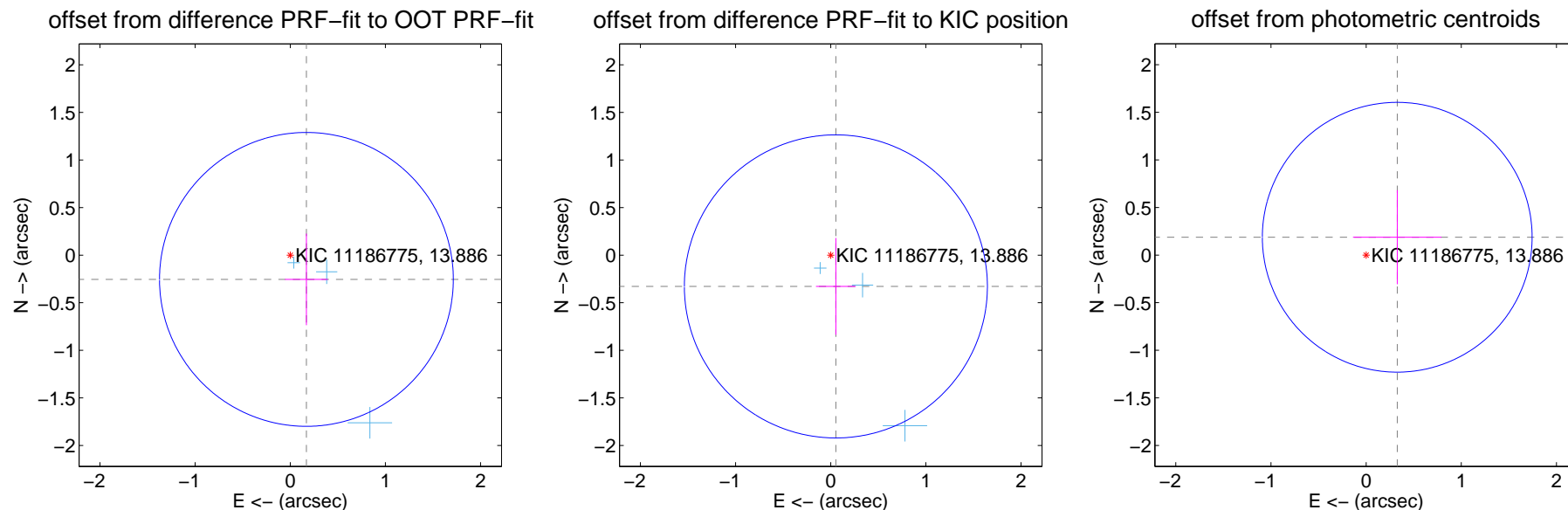
DV Centroid Data

Supplemental centroid analysis for 011186775-02. Kepler magnitude: 13.89. Transit SNR 8.66

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.306 ± 0.515	0.59	-0.170 ± 0.225	-0.255 ± 0.482
PRF-fit source offset from KIC position	0.333 ± 0.531	0.63	-0.054 ± 0.209	-0.328 ± 0.508
photometric centroid source offset	0.38 ± 0.47	0.80	-0.33 ± 0.47	0.19 ± 0.49

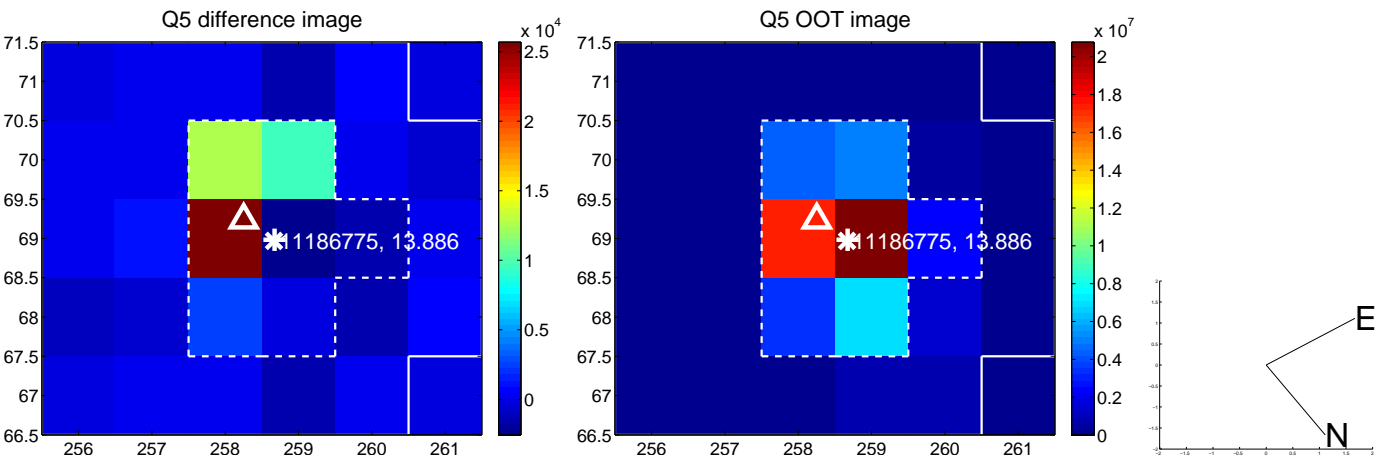


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

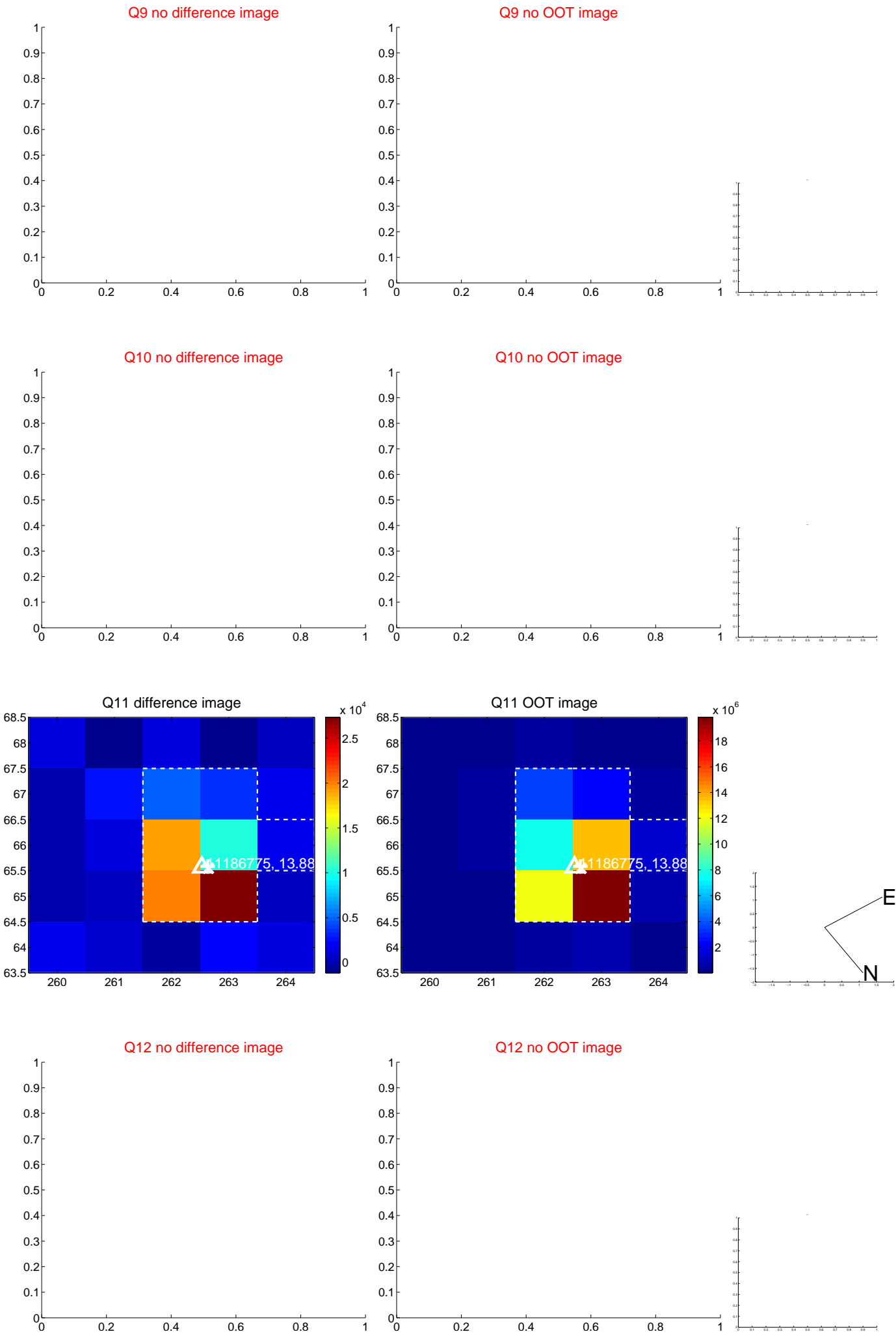
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



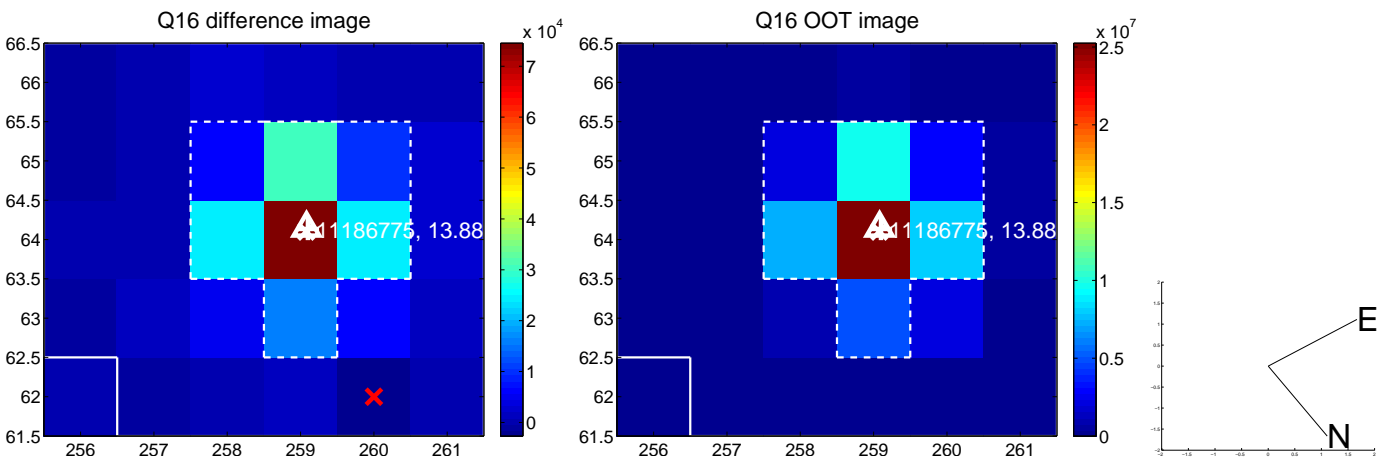
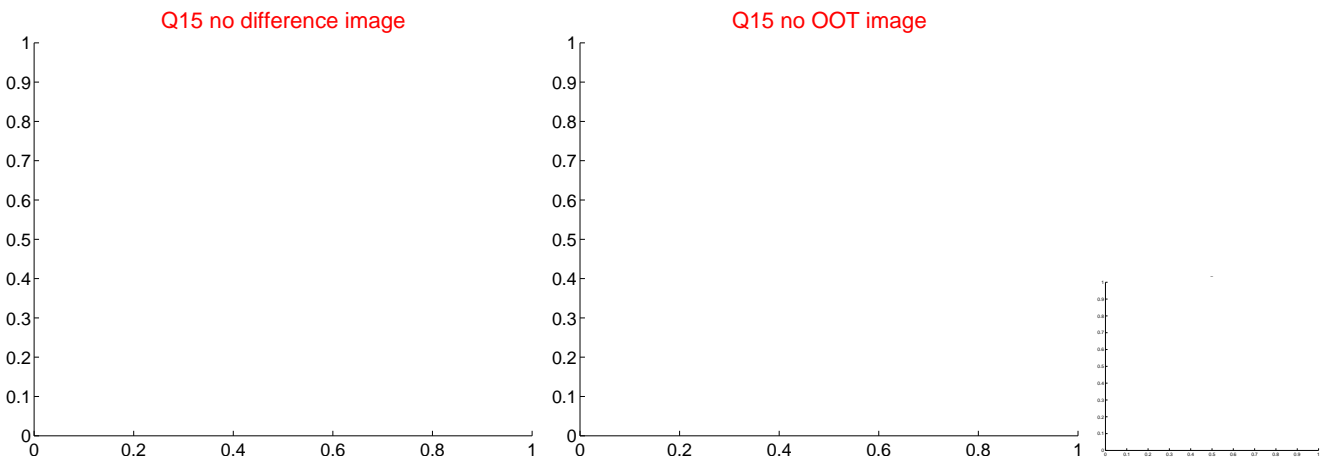
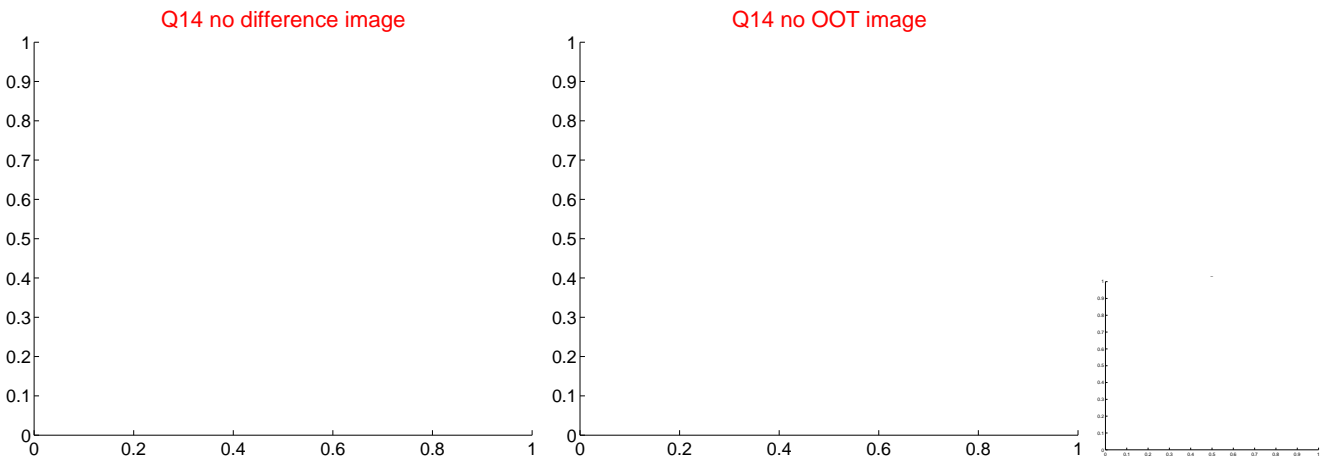
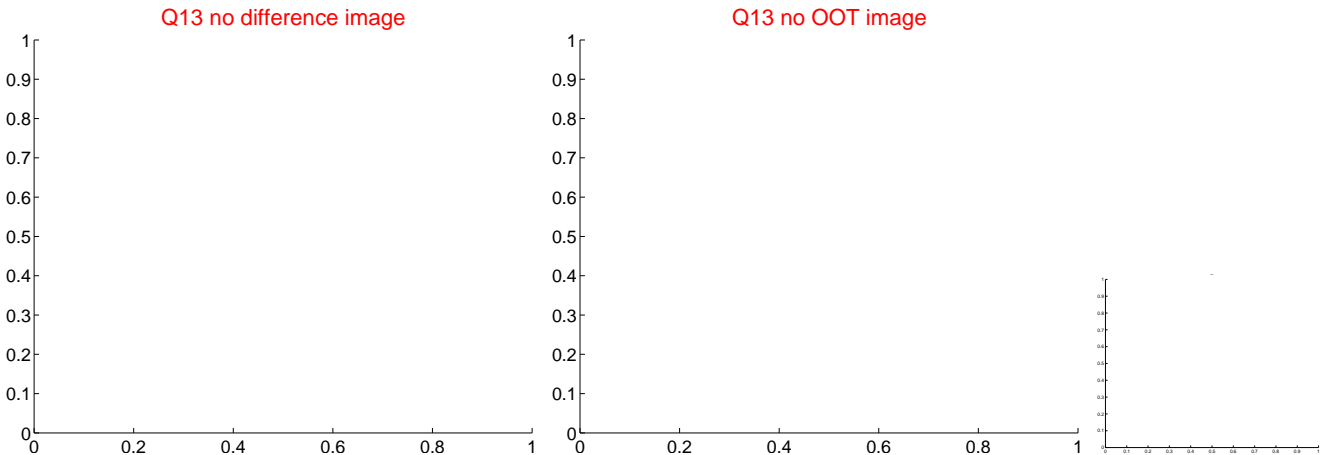
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



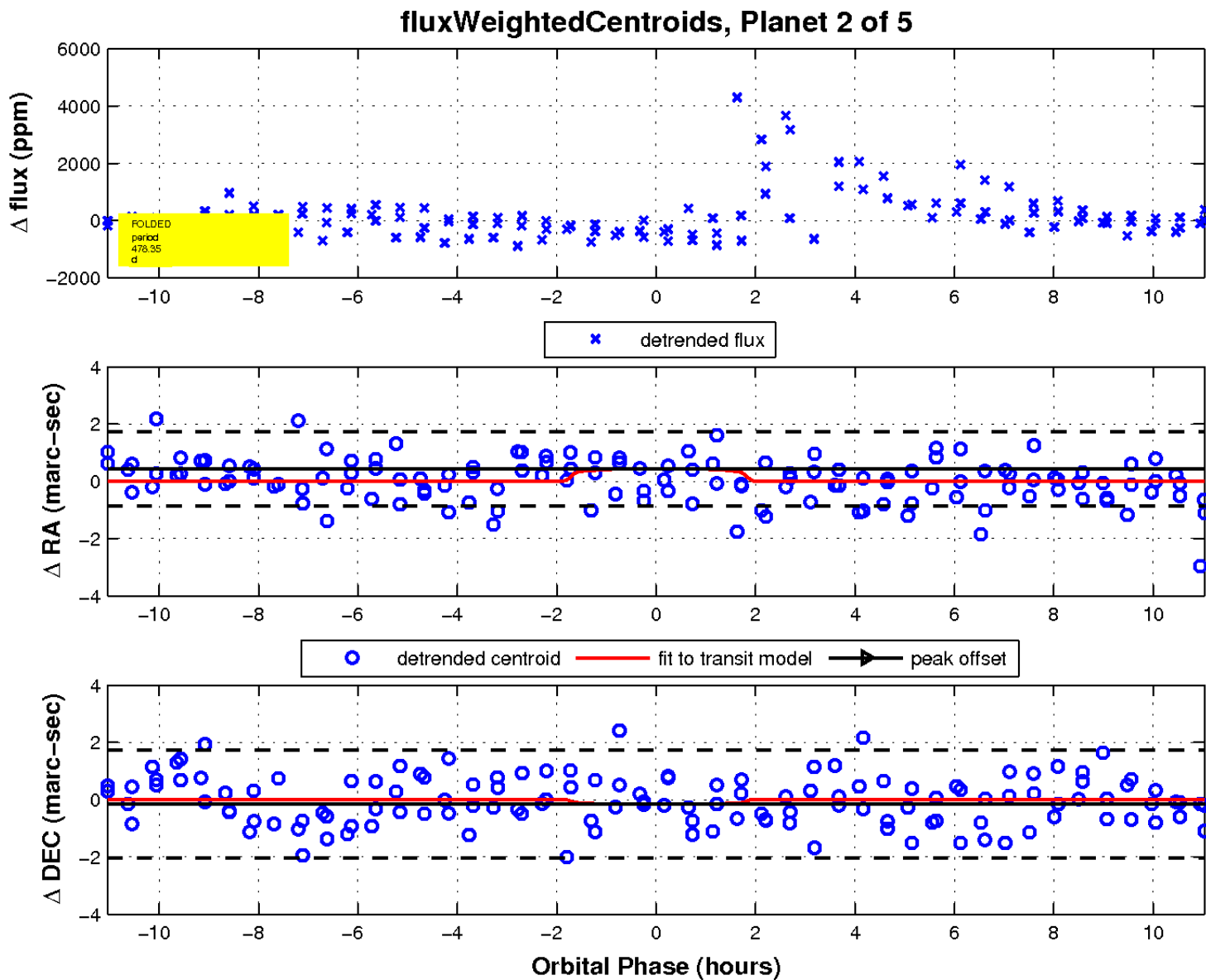
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

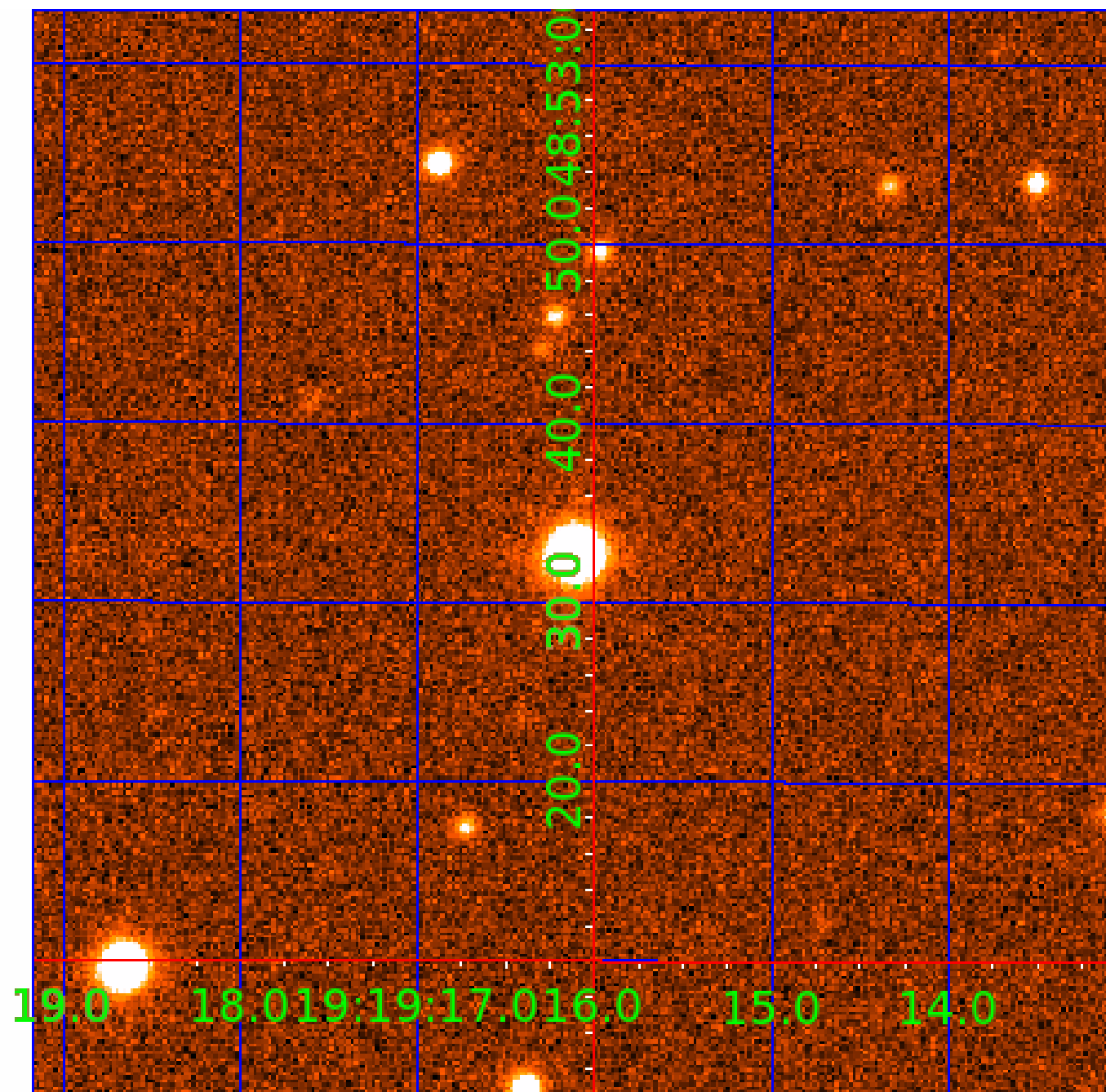


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011186775

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})
011186775-01	OBS	No	400.103686	275.454263	1918.0	31.236	14.3	6.6	1.06	6190	5.64	1.41
011186775-02	OBS	No	478.347195	534.193598	1197.3	3.694	14.9	8.7	1.06	6190	3.69	1.11
011186775-03	OBS	No	442.406781	544.275608	984.9	8.576	17.5	6.0	1.06	6190	3.37	1.24
011186775-04	OBS	No	542.549173	369.227761	892.1	10.656	11.1	6.5	1.06	6190	3.34	0.94
011186775-05	OBS	No	466.107146	493.330360	661.4	4.430	16.3	6.1	1.06	6190	2.73	1.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011186775-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—HALO_GHOST
011186775-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011186775-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011186775-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011186775-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—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.

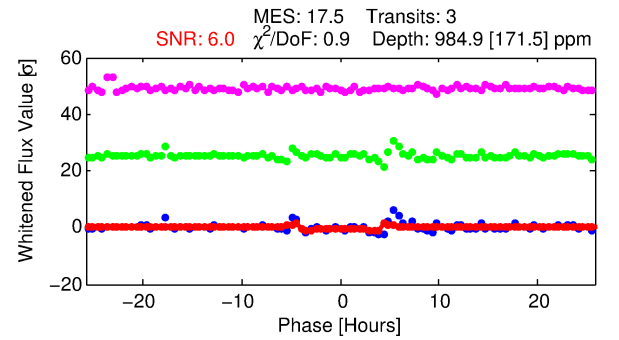
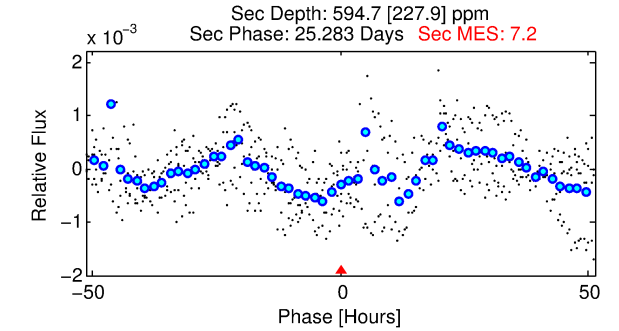
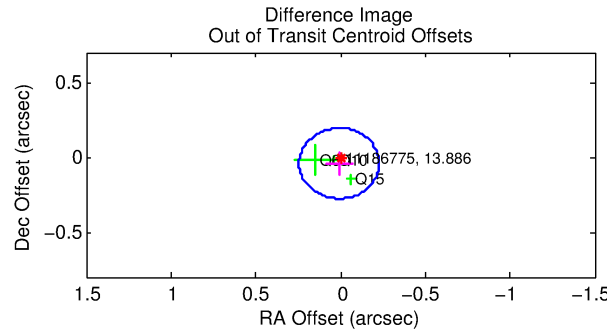
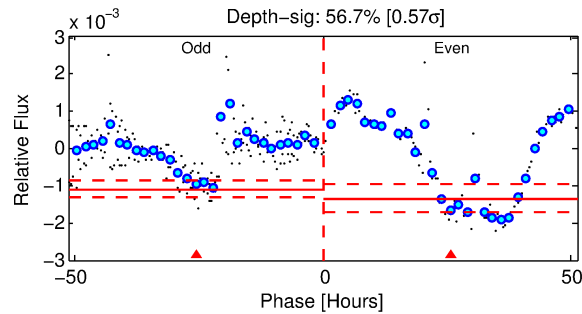
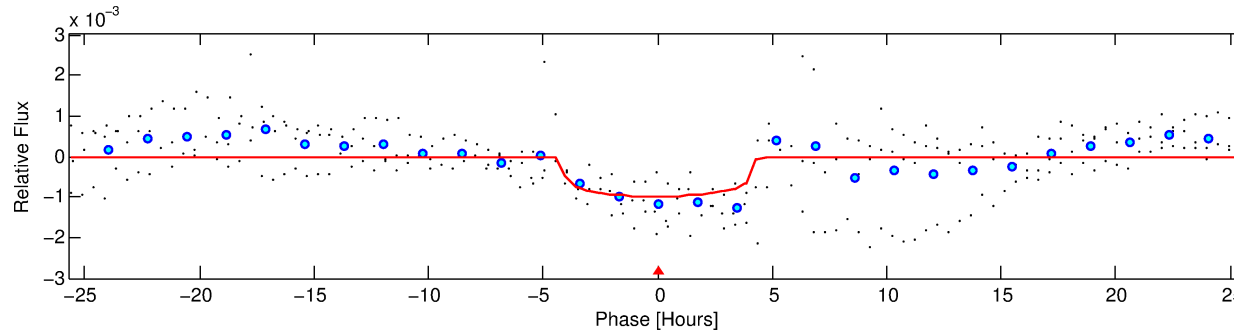
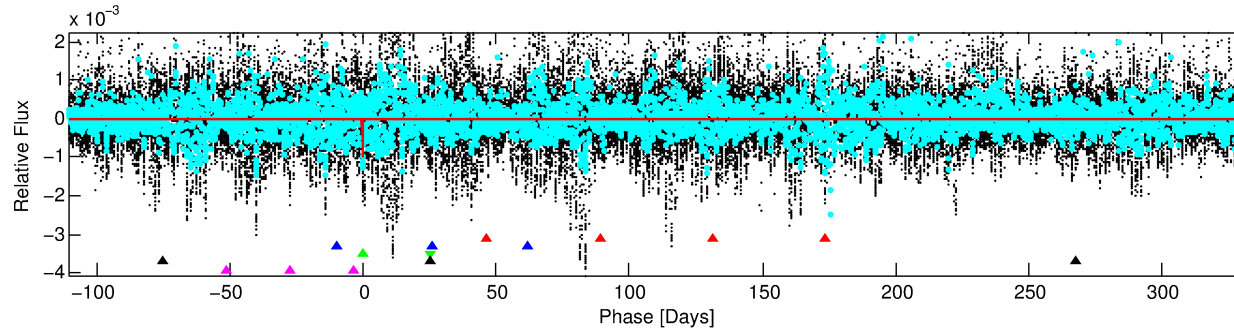
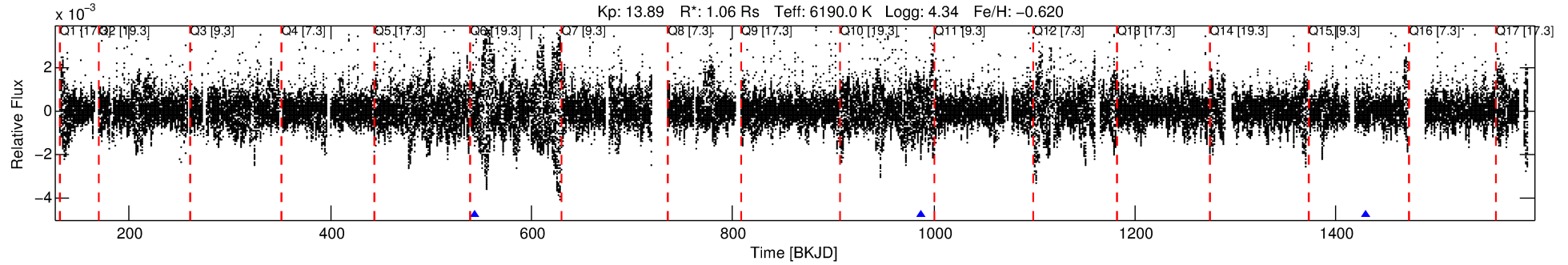
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011186775-03

No Significant Match Found

DV One-Page Summary

KIC: 11186775 Candidate: 3 of 5 Period: 442.407 d



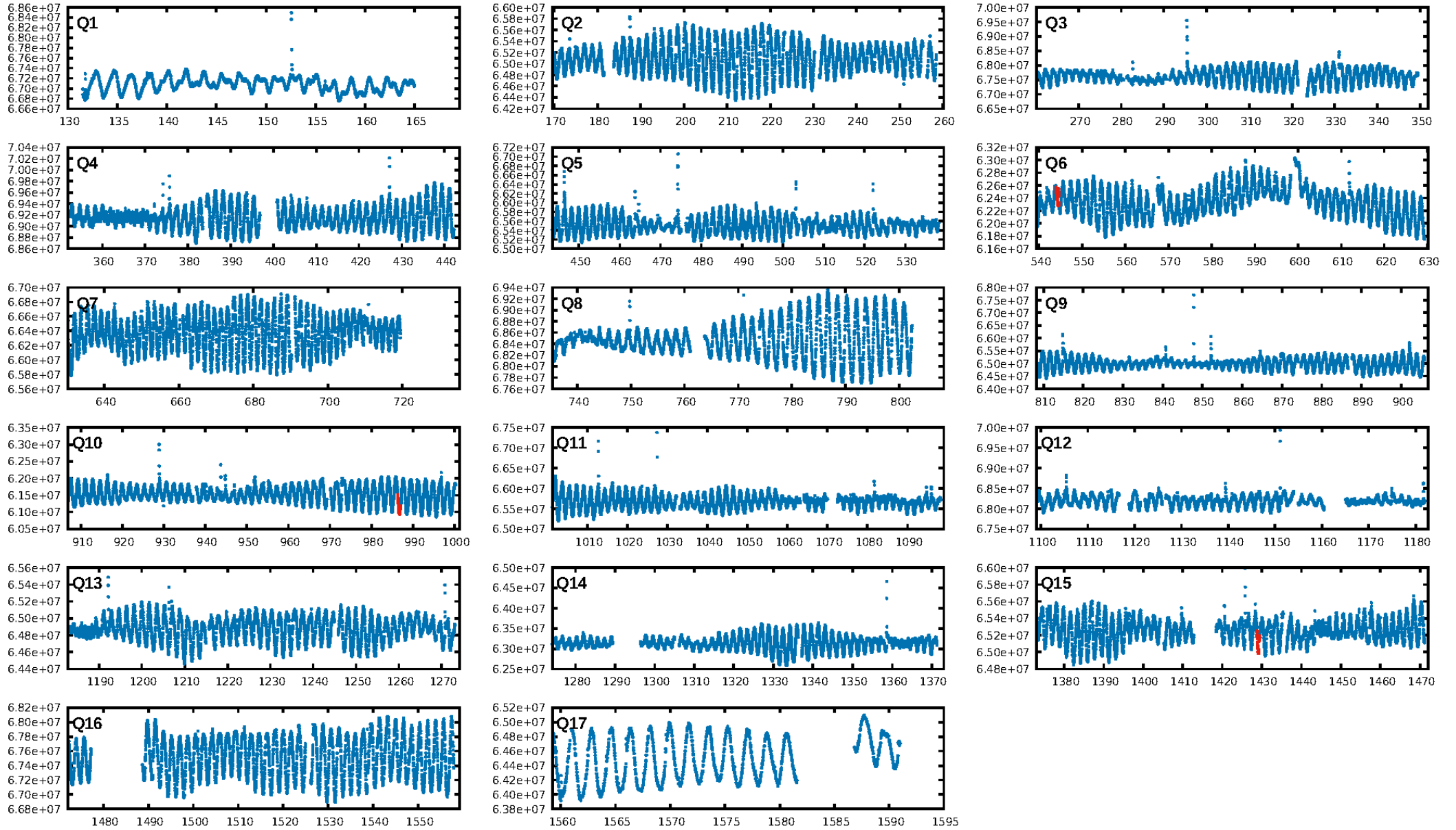
DV Fit Results:

Period = 442.40678 [0.00507] d
Epoch = 544.2756 [0.0067] BKJD
Rp/R* = 0.0292 [0.0113]
a/R* = 381.60 [704.62]
b = 0.35 [4.67]
Seff = 1.24 [0.43]
Teff = 269 [23] K
Rp = 3.37 [1.59] Re
a = 1.0898 [0.2458] AU
Ag = 34267.56 [31519.09] [1.09 σ]
Teffp = 5655 [1229] K [4.38 σ]

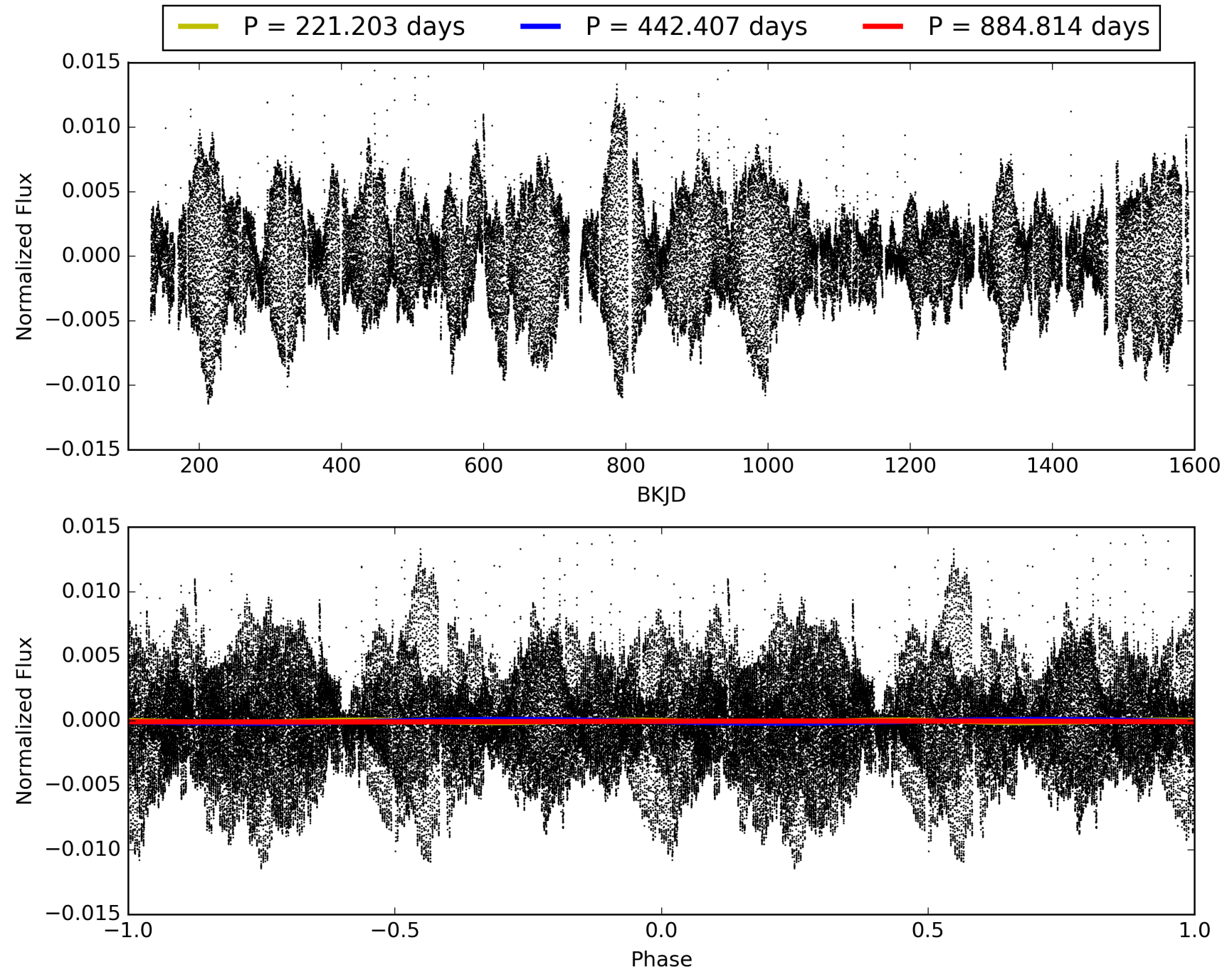
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [31.34 σ]
LongPeriod-sig: 100.0% [58.93 σ]
ModelChiSquare2-sig: 41.3%
ModelChiSquareGof-sig: 94.2%
Bootstrap-pfa: 2.99e-15
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.387
Centroid-sig: 4.1%
Centroid-so: 0.393 arcsec [1.16 σ]
OotOffset-rm: 0.043 arcsec [0.54 σ]
OotOffset-st: 2/1/0/0 [3]
KicOffset-rm: 0.048 arcsec [0.52 σ]
KicOffset-st: 2/1/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 011186775-03, PDC Light Curves

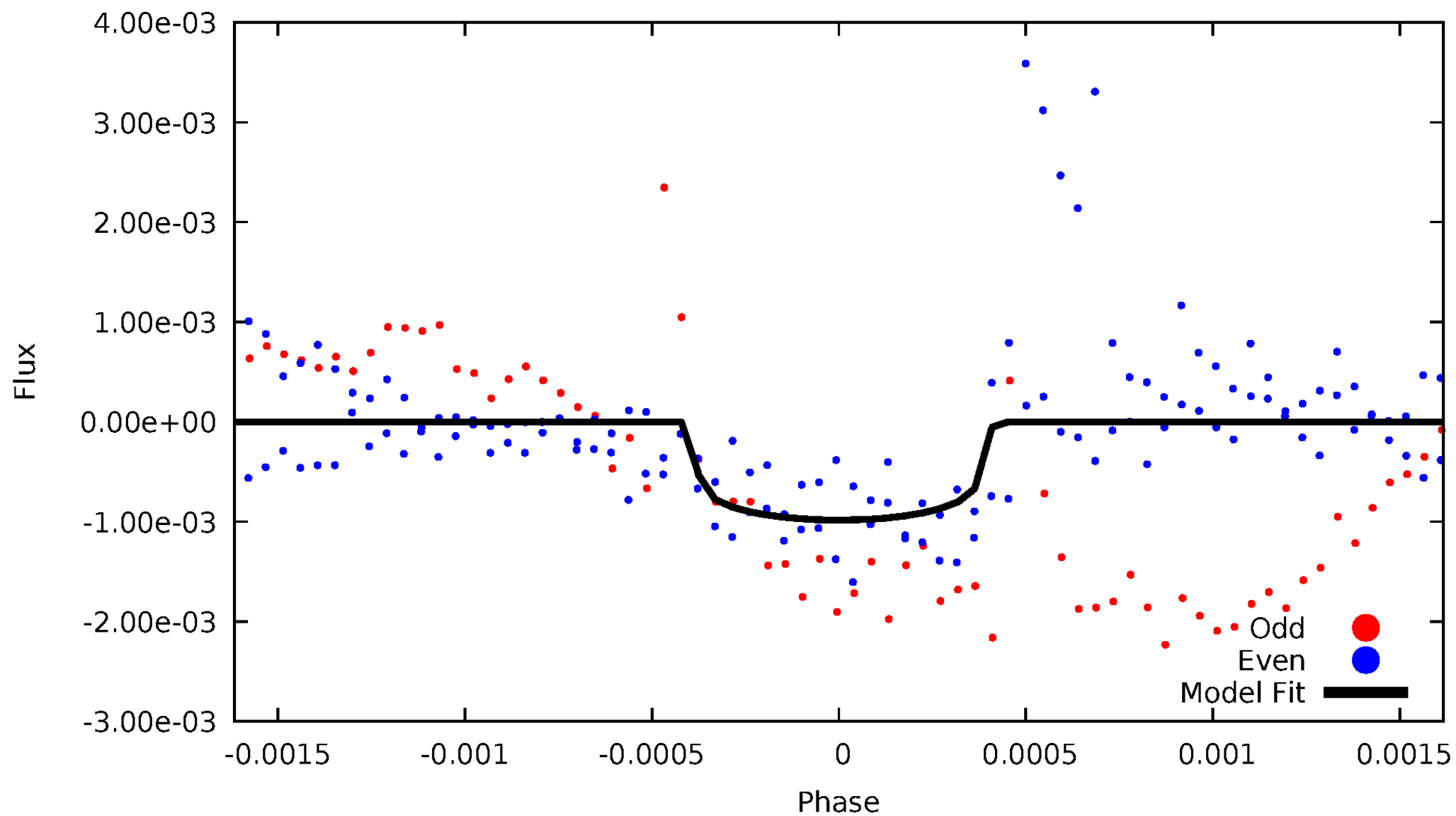


TCE 011186775-03



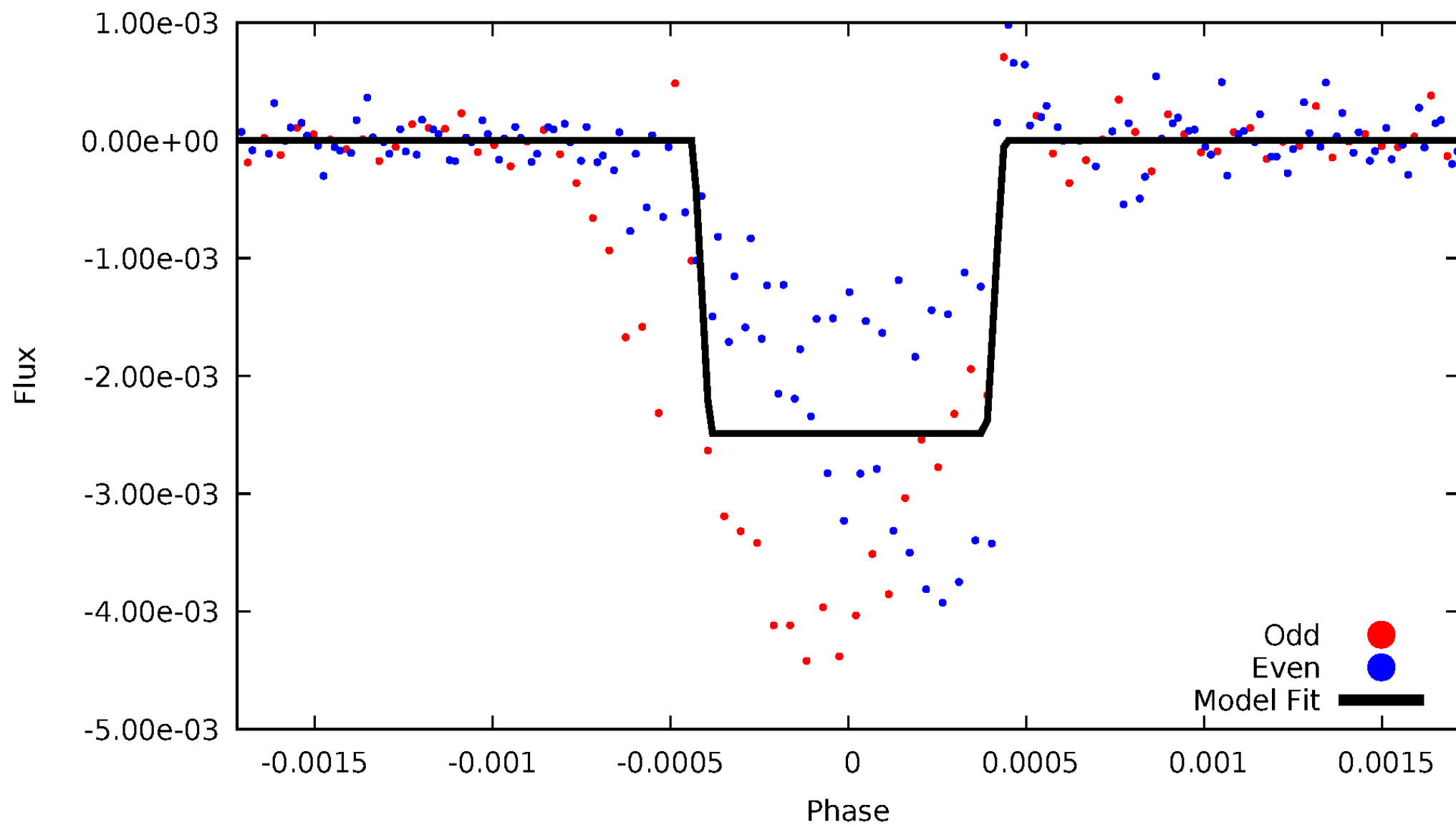
DV Odd/Even

TCE 011186775-03



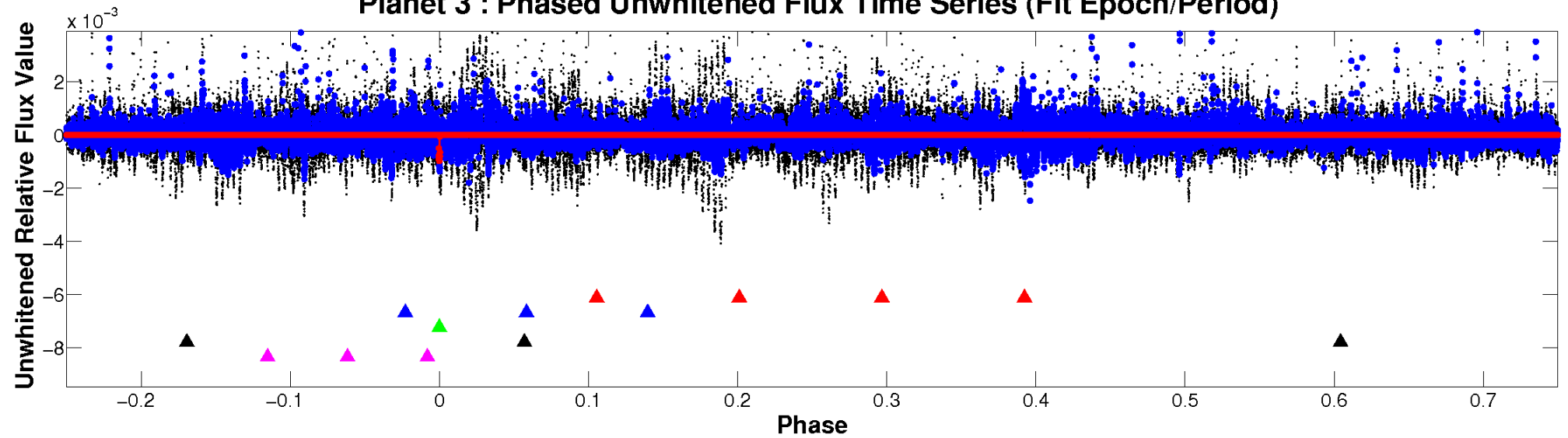
ALT Odd/Even

TCE 011186775-03

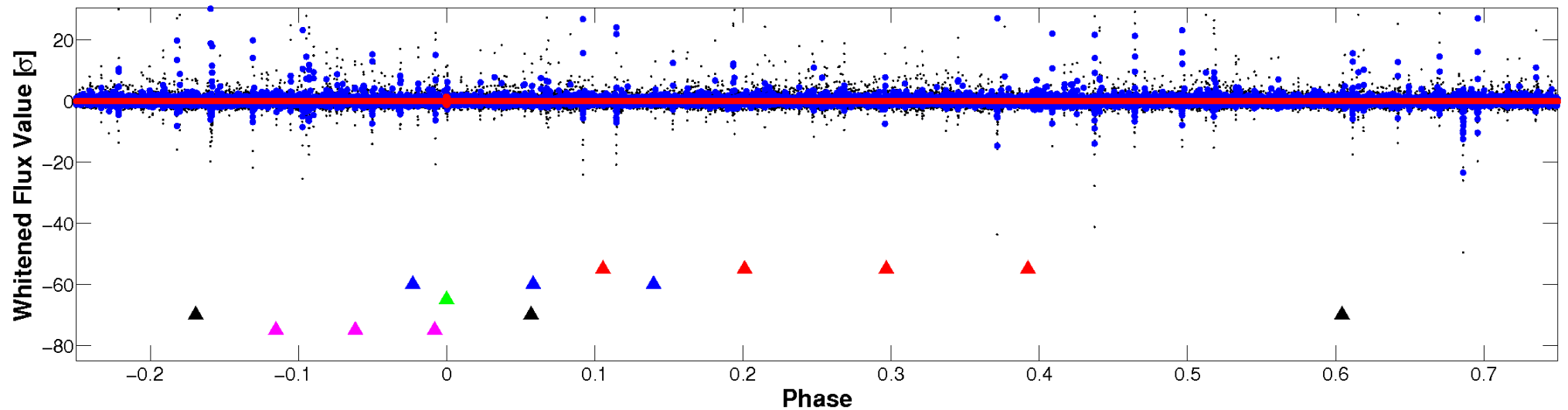


Non-Whitened Vs. Whitened Light Curve

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

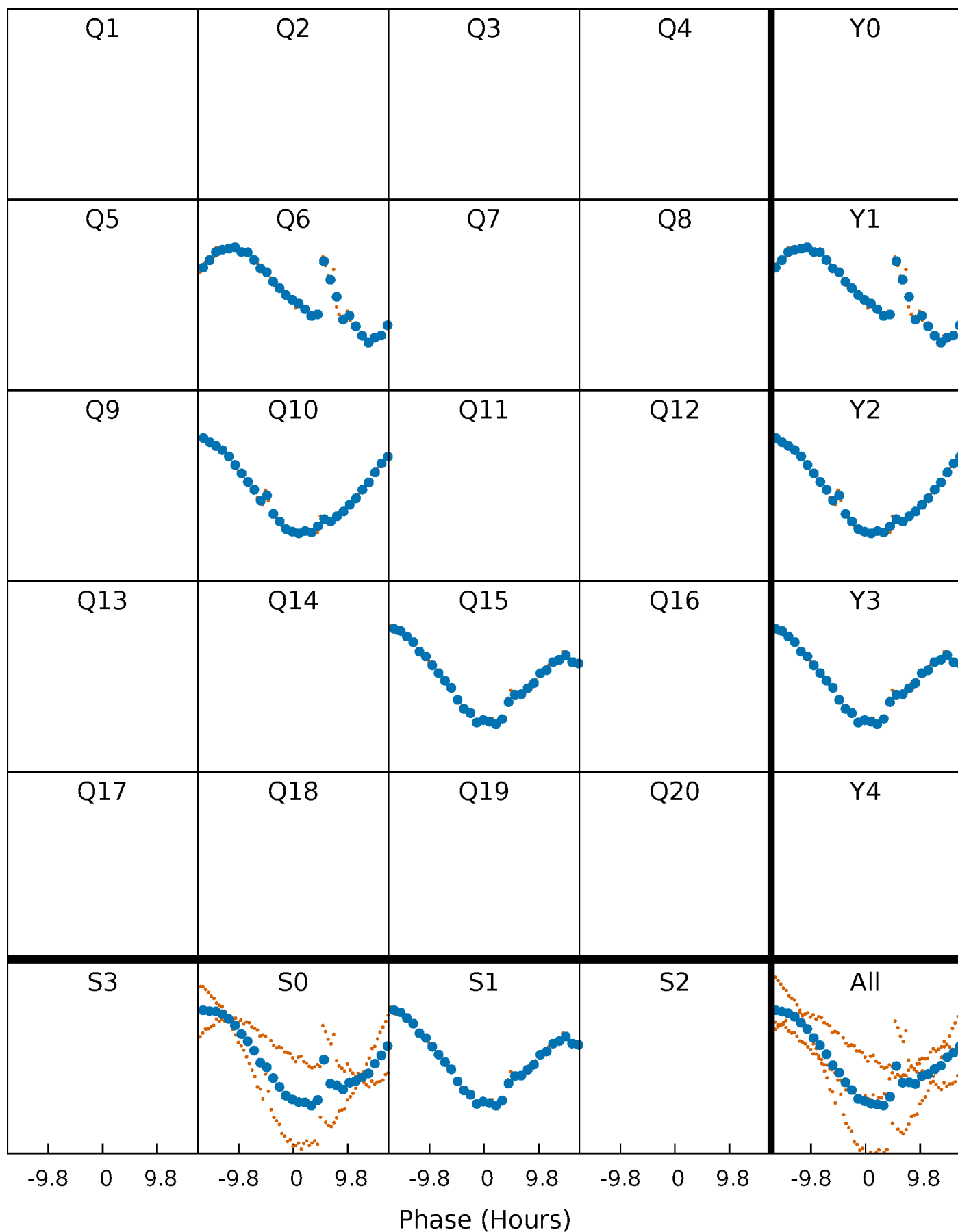


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011186775-03 P=442.406781 Days $T_0=544.275608$ (BKJD)



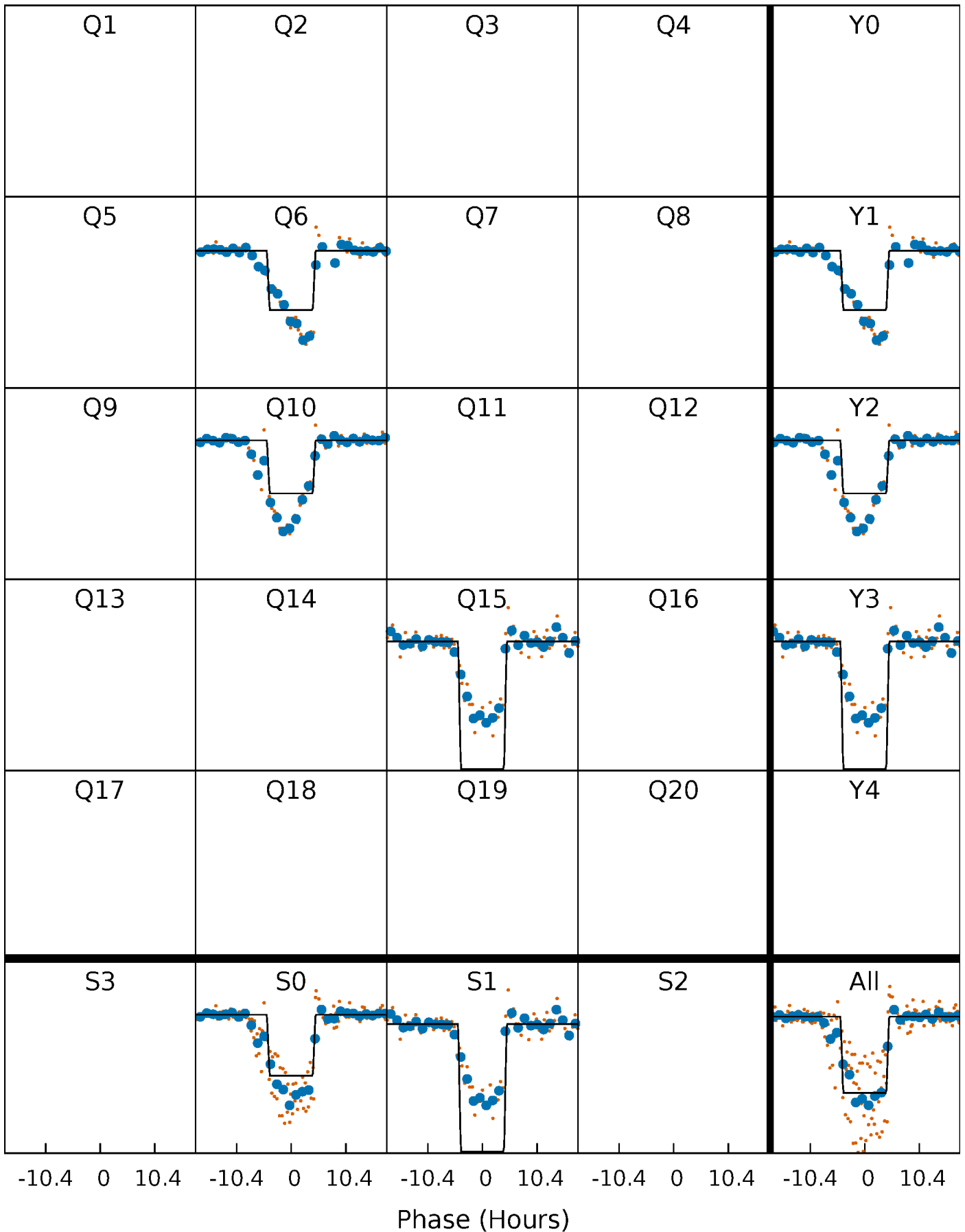
DV Quarter-Phased Transit Curves

TCE 011186775-03 $P=442.406781$ Days $T_0=544.275608$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

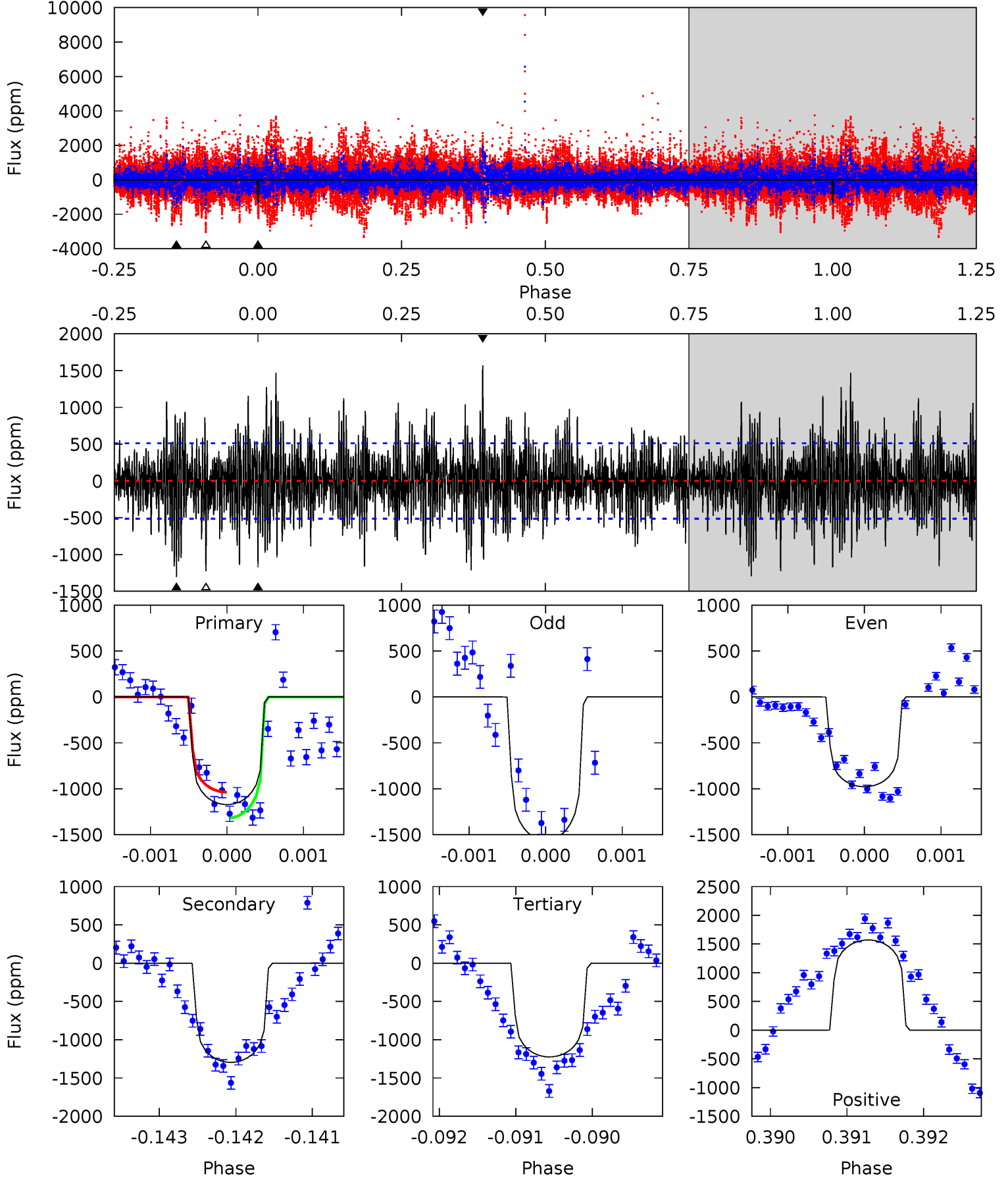
TCE 011186775-03 $P=442.393385$ Days $T_0=544.297917$ (BKJD)



DV Model-Shift Uniqueness Test

011186775-03, P = 442.406781 Days, E = 101.868827 Days

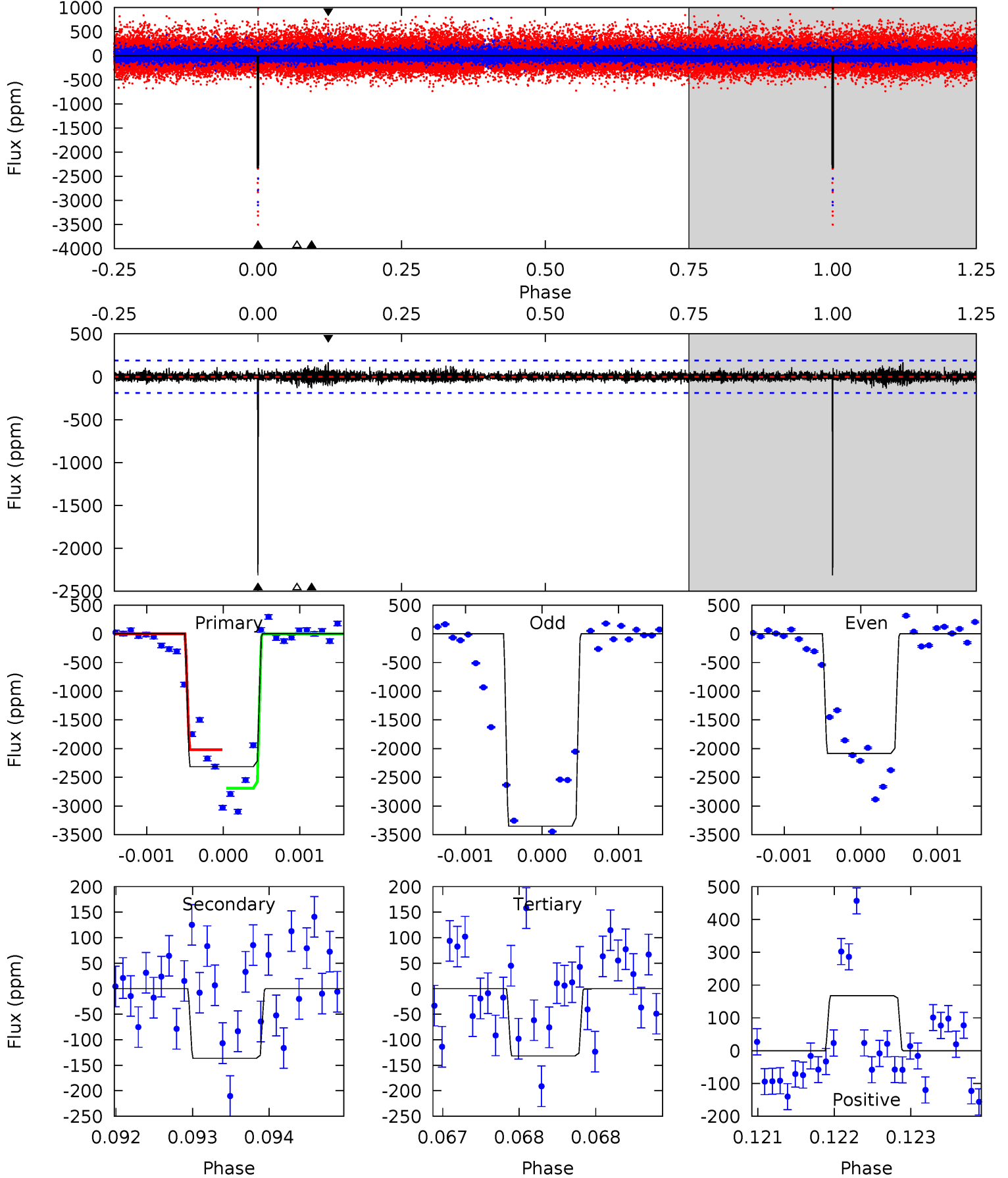
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.5	13.9	13.1	16.8	5.48	3.34	3.81	-0.56	-4.26	0.76	-2.94	2.63	0.94	0.55	1.51



Alt Model-Shift Uniqueness Test

011186775-03, P = 442.393385 Days, E = 101.904532 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
67.1	3.96	3.82	4.86	5.47	3.33	0.74	63.3	62.3	0.13	-0.90	24.6	0.89	0.07	9.76



Stellar Parameters For KIC 011186775

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6190^{+168}_{-186}	$4.336^{+0.175}_{-0.175}$	$-0.620^{+0.300}_{-0.300}$	$1.056^{+0.287}_{-0.191}$	$0.881^{+0.114}_{-0.076}$	$1.055^{+0.816}_{-0.503}$
	+3%/-3%	+4%/-4%	+48%/-48%	+27%/-18%	+13%/-9%	+77%/-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 011186775-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1296 ± 94	$3.35^{+1.48}_{-1.25}$	377^{+27}_{-25}	6910^{+2281}_{-1092}	$74346^{+120946}_{-38171}$
Alt.	-136 ± 34	$5.72^{+1.55}_{-1.39}$	375^{+25}_{-23}	3492^{+342}_{-264}	2747^{+2268}_{-1188}

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 $A_{obs} \gg 1.0$

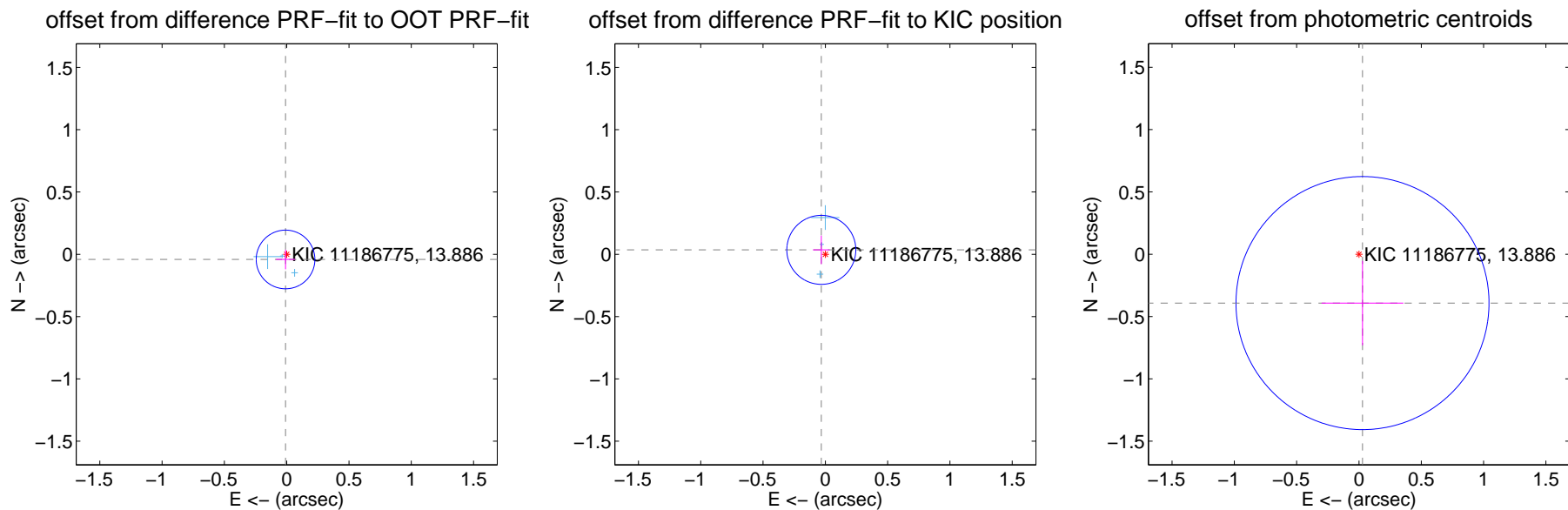
DV Centroid Data

Supplemental centroid analysis for 011186775-03. Kepler magnitude: 13.89. Transit SNR 5.96

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.043 ± 0.078	0.54	0.009 ± 0.077	-0.041 ± 0.079
PRF-fit source offset from KIC position	0.048 ± 0.092	0.52	0.032 ± 0.067	0.036 ± 0.114
photometric centroid source offset	0.39 ± 0.34	1.16	-0.03 ± 0.33	-0.39 ± 0.34

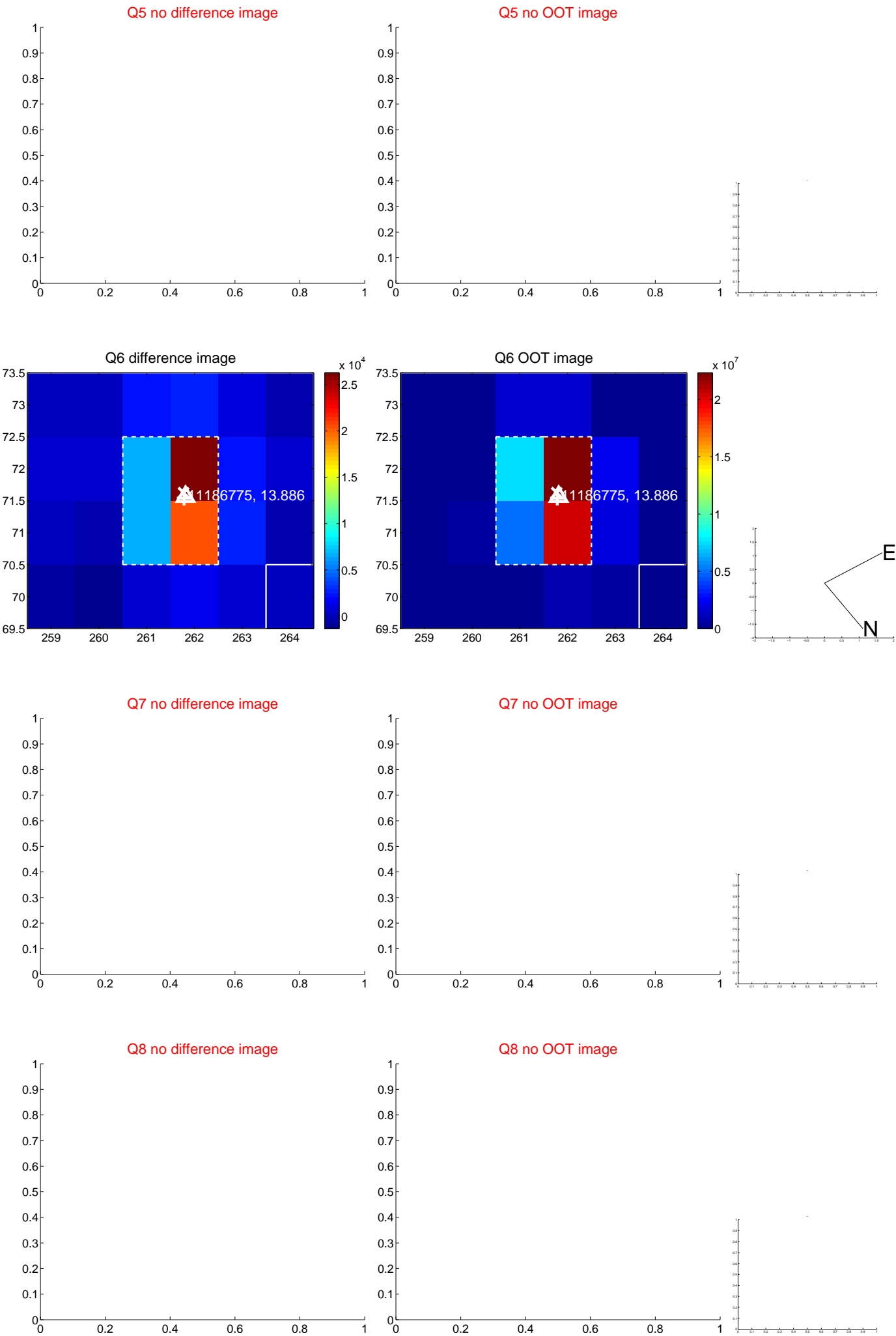


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

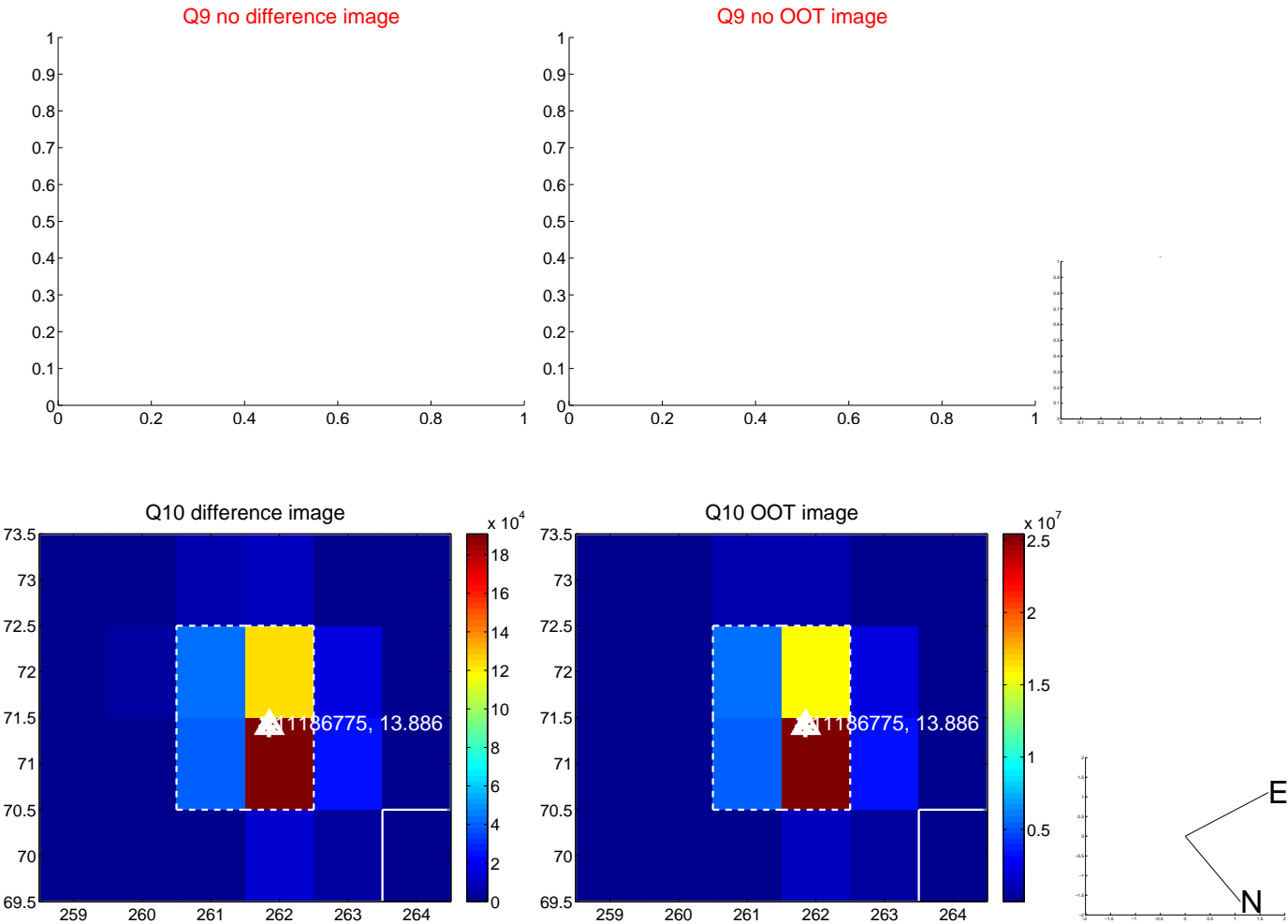
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



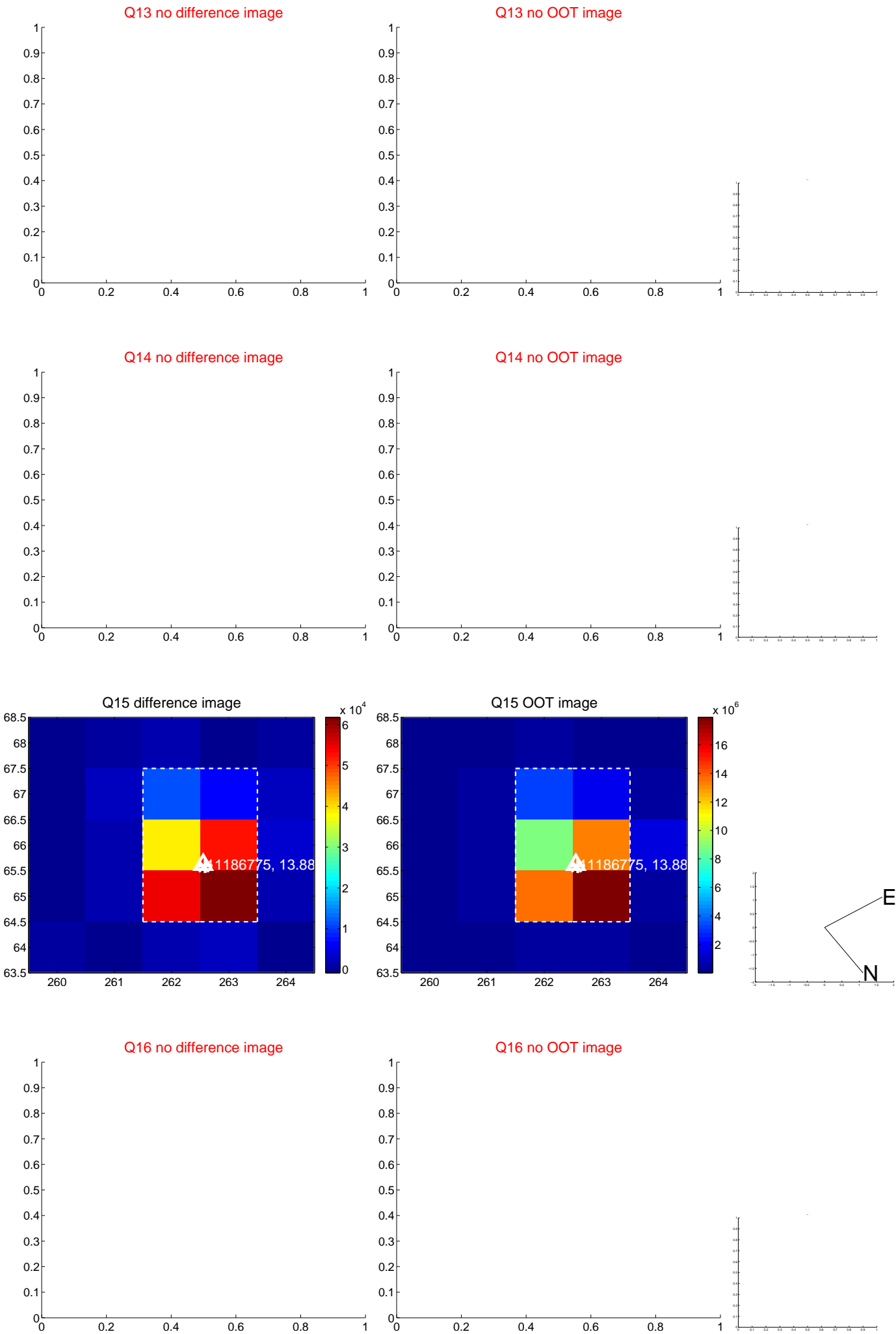
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



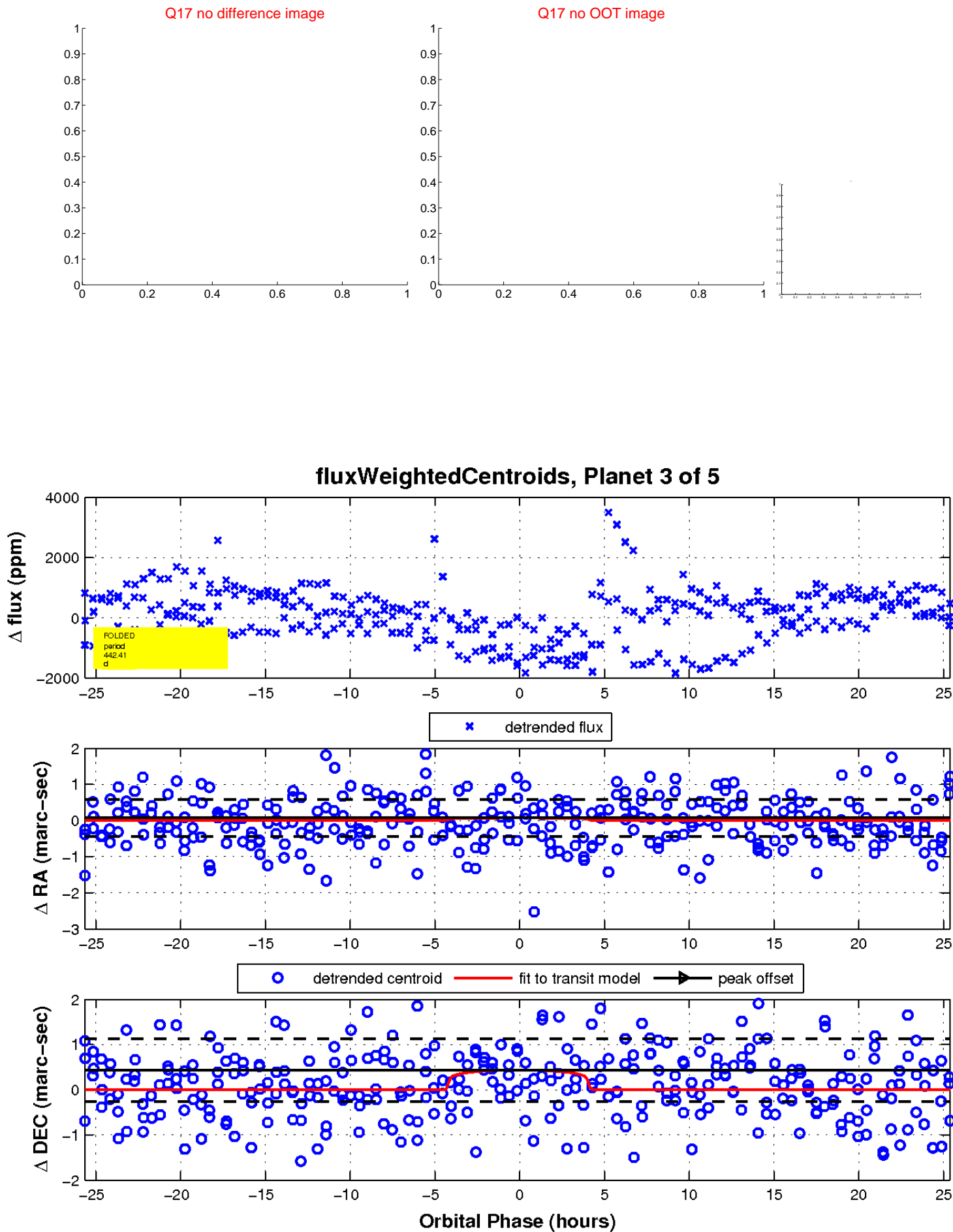
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

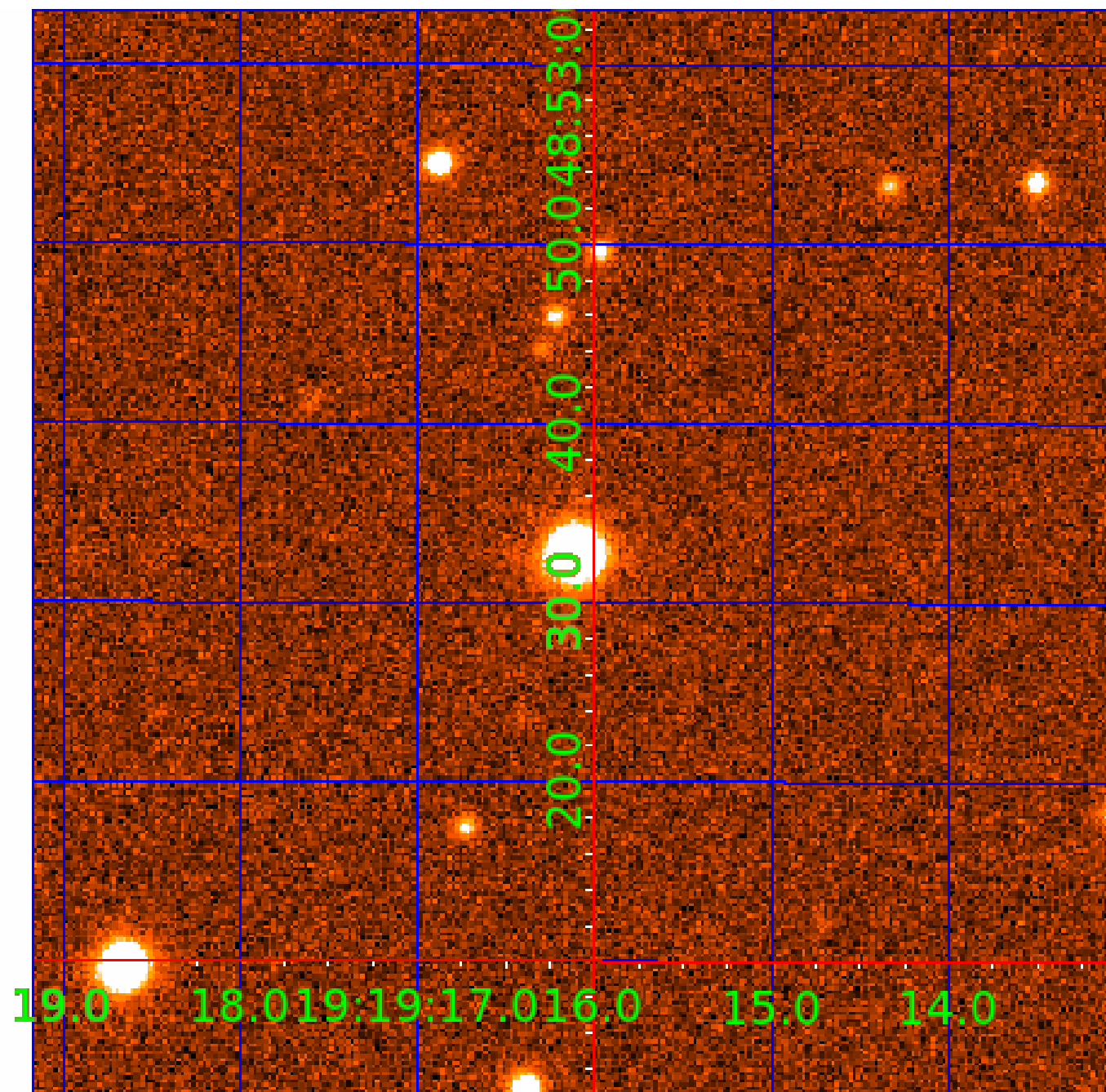


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011186775

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})
011186775-01	OBS	No	400.103686	275.454263	1918.0	31.236	14.3	6.6	1.06	6190	5.64	1.41
011186775-02	OBS	No	478.347195	534.193598	1197.3	3.694	14.9	8.7	1.06	6190	3.69	1.11
011186775-03	OBS	No	442.406781	544.275608	984.9	8.576	17.5	6.0	1.06	6190	3.37	1.24
011186775-04	OBS	No	542.549173	369.227761	892.1	10.656	11.1	6.5	1.06	6190	3.34	0.94
011186775-05	OBS	No	466.107146	493.330360	661.4	4.430	16.3	6.1	1.06	6190	2.73	1.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011186775-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—HALO_GHOST
011186775-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011186775-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011186775-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011186775-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—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.

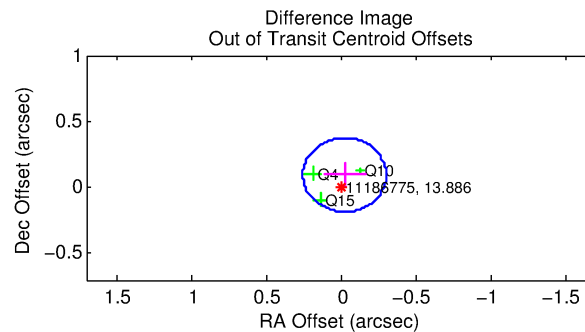
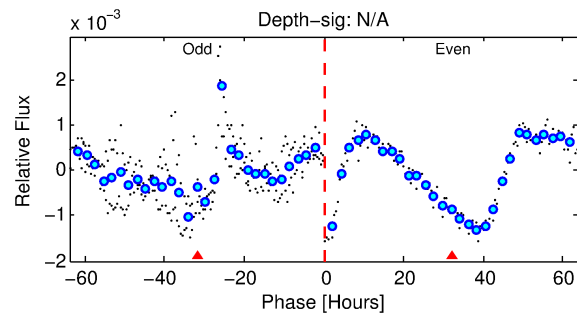
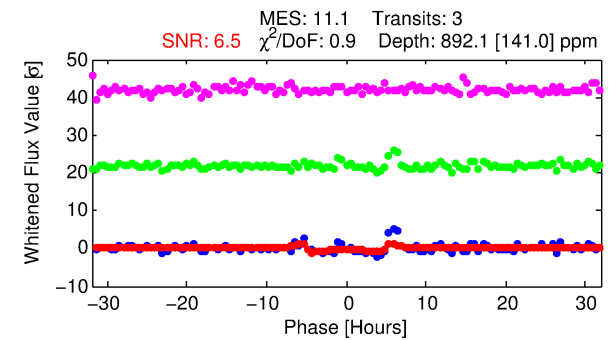
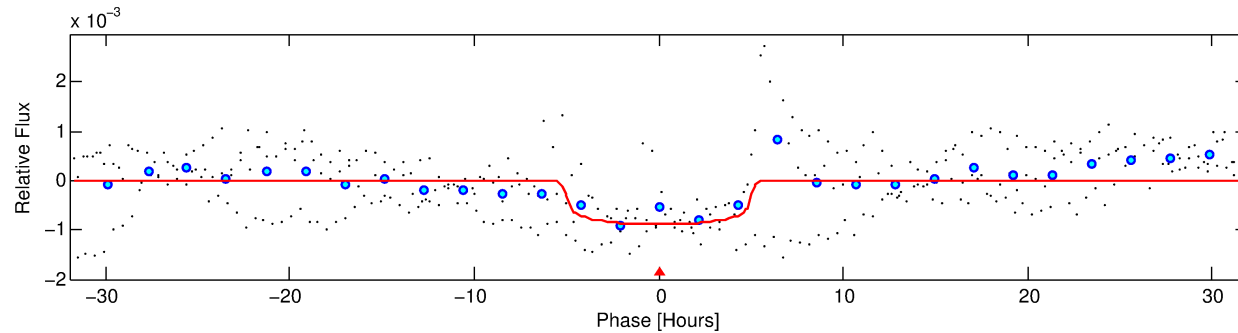
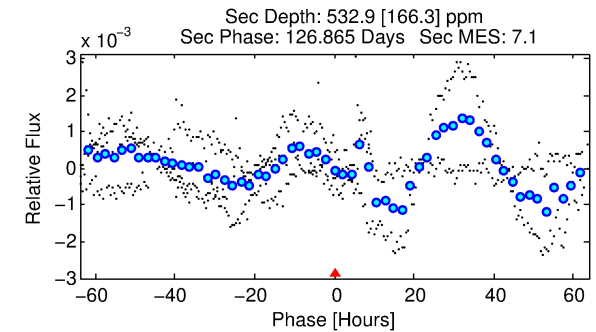
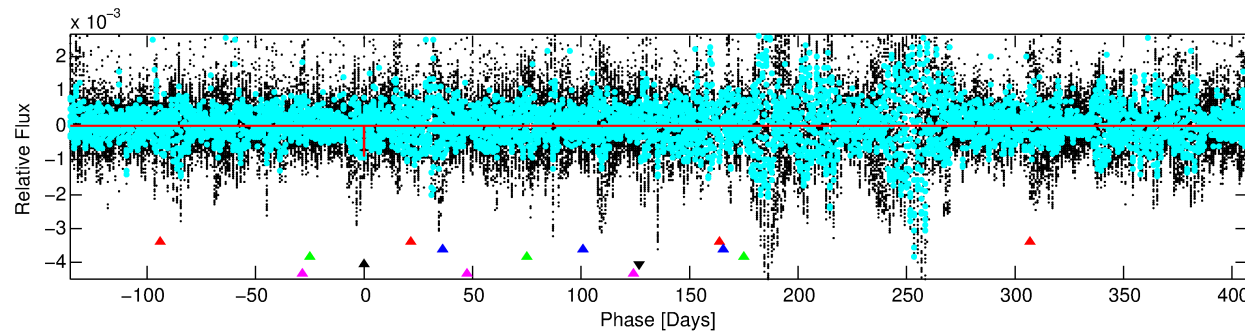
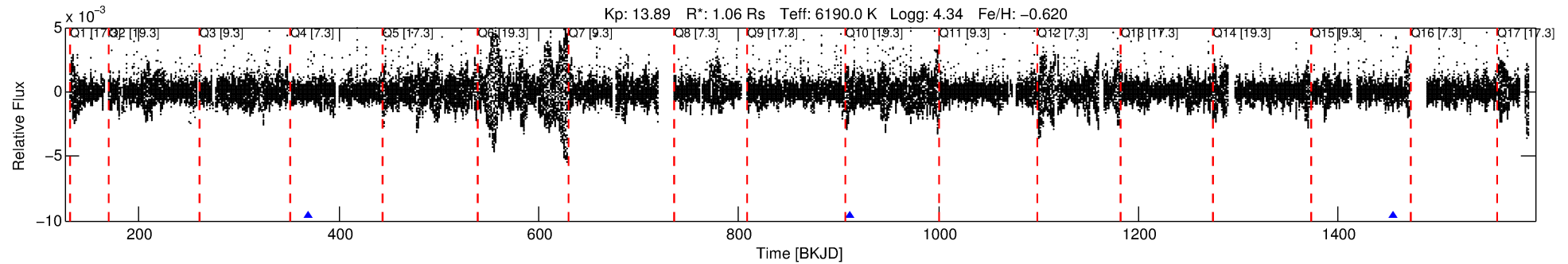
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011186775-04

No Significant Match Found

DV One-Page Summary

KIC: 11186775 Candidate: 4 of 5 Period: 542.549 d



DV Fit Results:

Period = 542.54917 [0.00509] d
Epoch = 369.2278 [0.0068] BKJD
Rp/R* = 0.0290 [0.0045]
a/R* = 307.48 [191.64]
b = 0.66 [0.54]
Seff = 0.94 [0.33]
Teq = 251 [22] K
Rp = 3.34 [1.05] Re
a = 1.2486 [0.2816] AU
Ag = 40925.34 [22404.07] [1.83] σ
Teffp = 5523 [631] K [8.34] σ

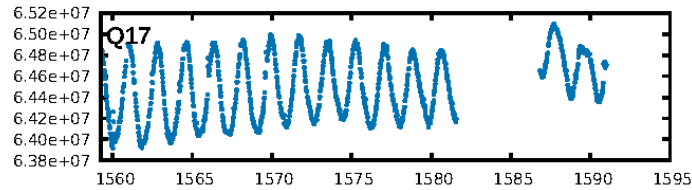
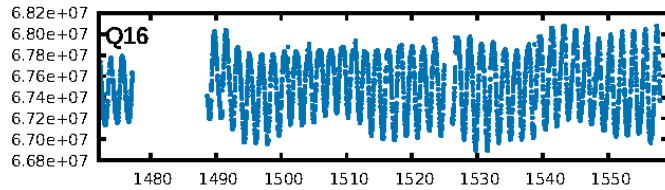
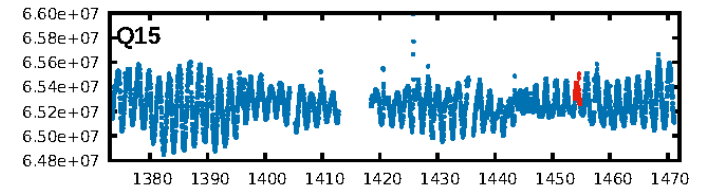
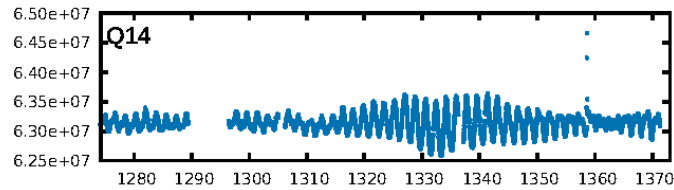
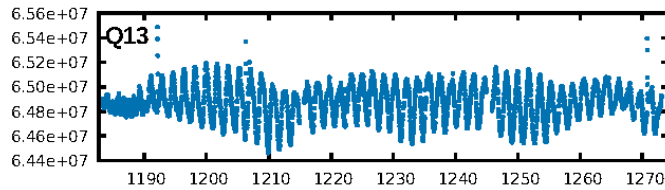
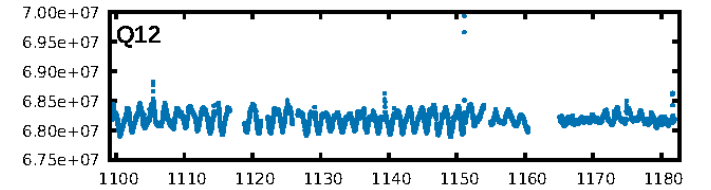
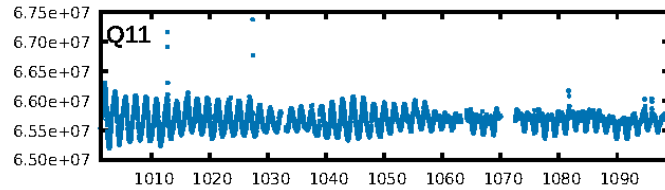
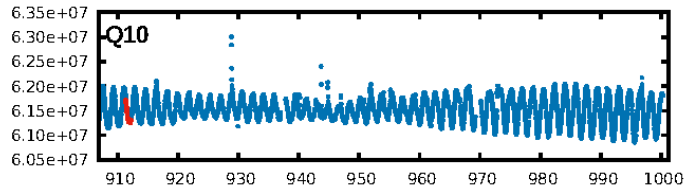
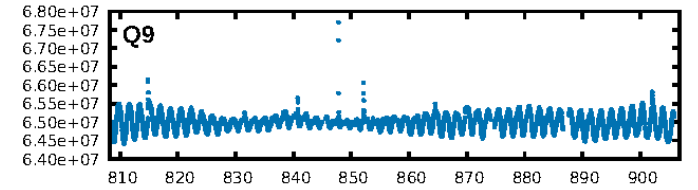
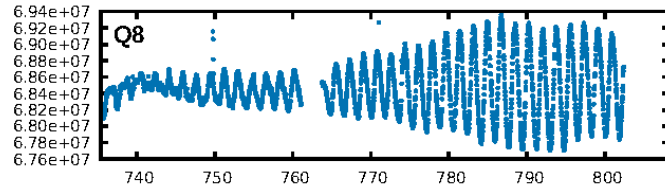
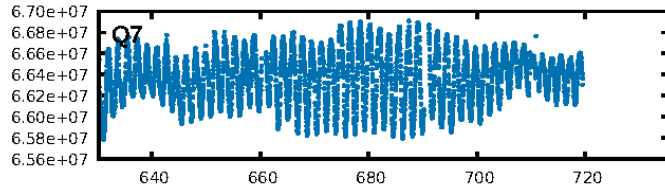
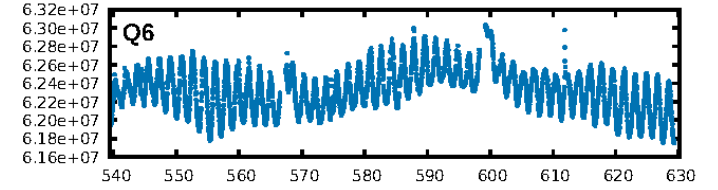
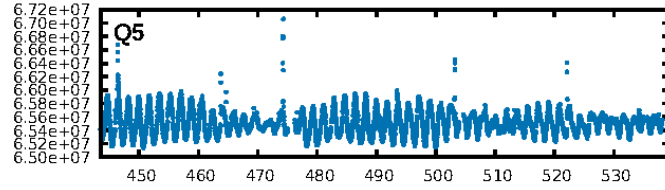
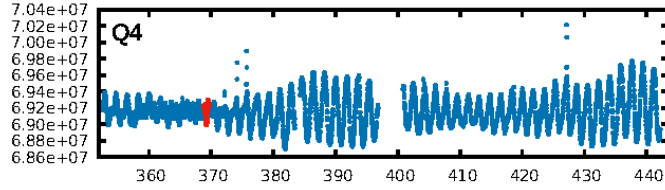
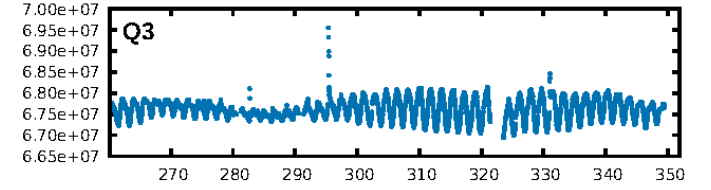
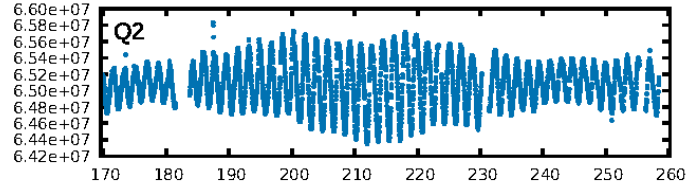
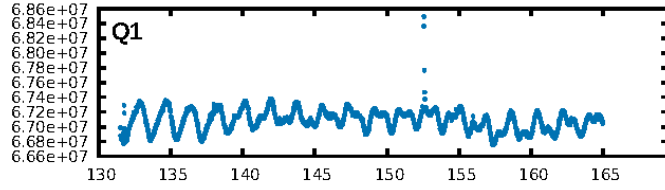
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [136.62] σ
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.3%
ModelChiSquareGof-sig: 98.9%
Bootstrap-pfa: 1.89e-08
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 2.679
Centroid-sig: 76.1%
Centroid-so: 0.239 arcsec [0.67] σ
OotOffset-rm: 0.099 arcsec [1.06] σ
KicOffset-rm: 0.242 arcsec [1.79] σ
OotOffset-st: 1/1/1/0 [3]
KicOffset-st: 1/1/1/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

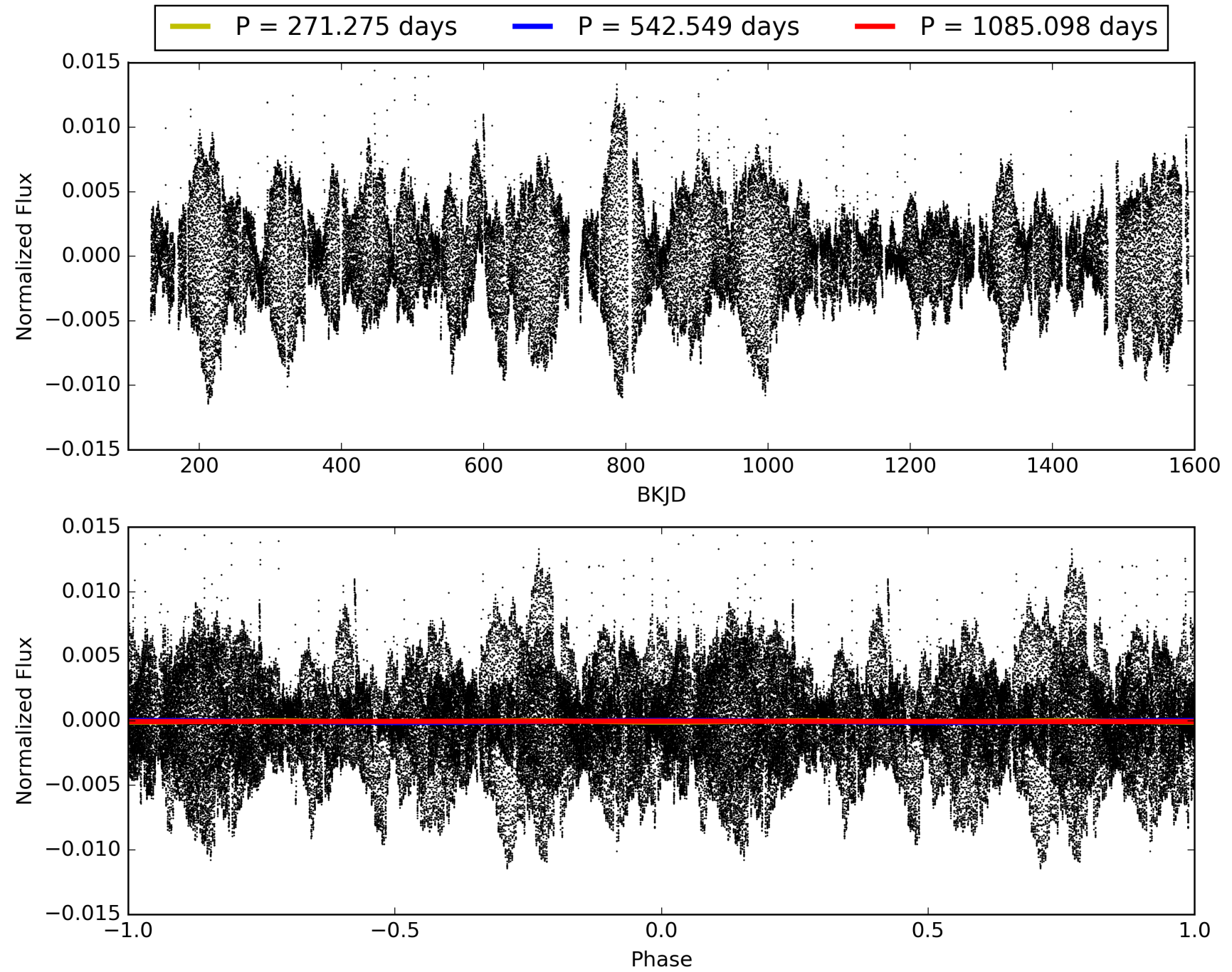
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:47:08 Z

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

TCE 011186775-04, PDC Light Curves

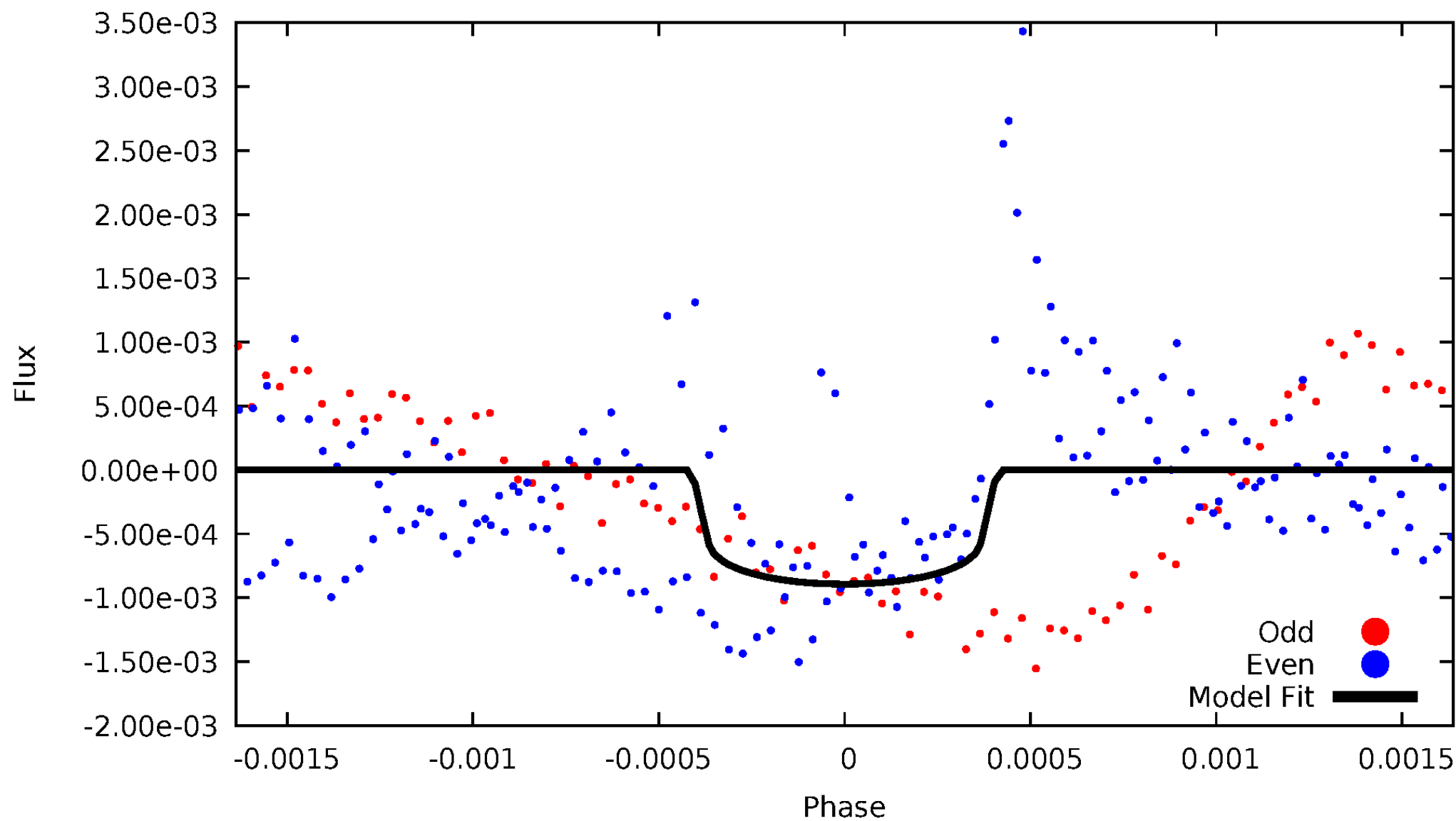


TCE 011186775-04



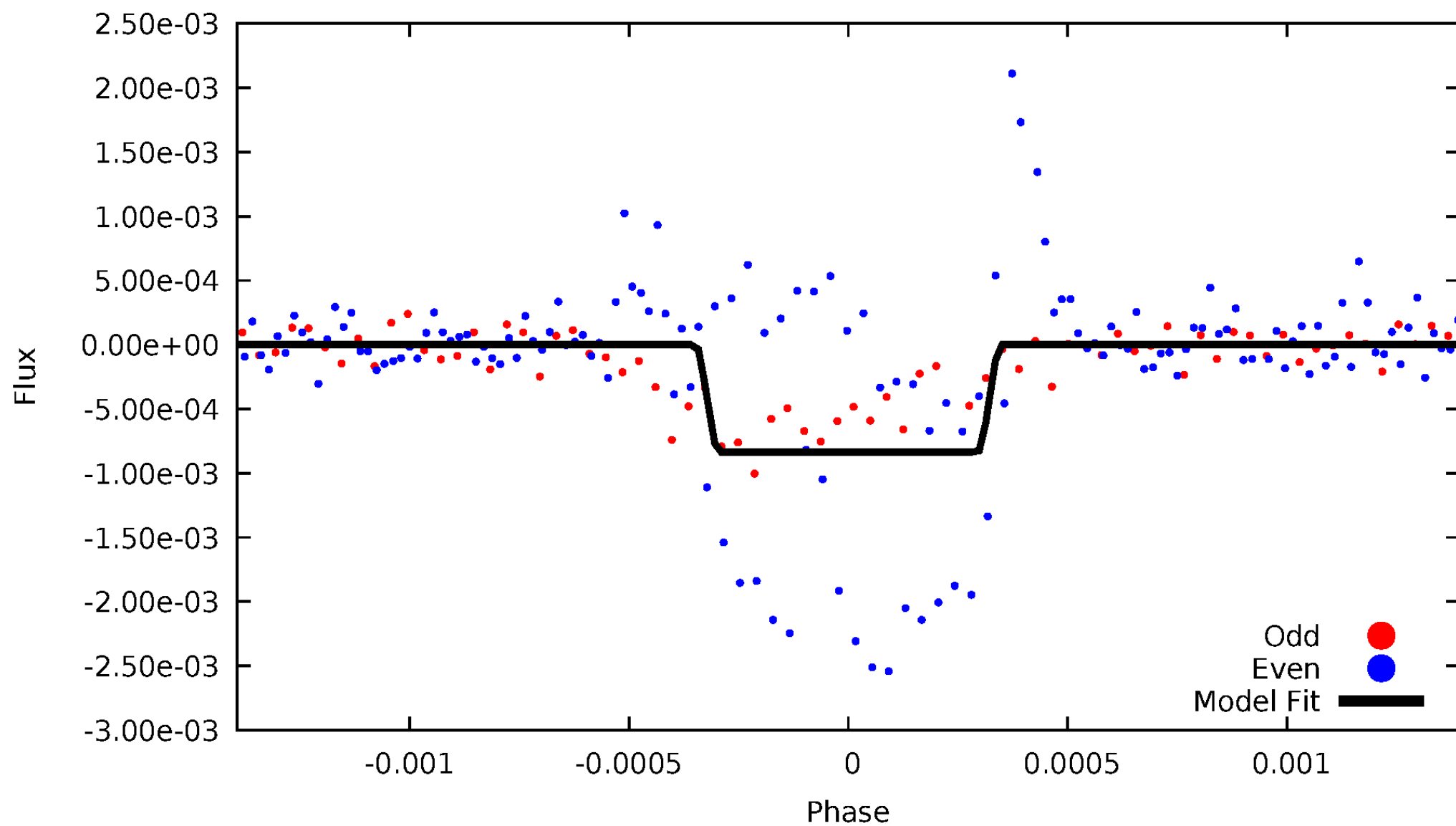
DV Odd/Even

TCE 011186775-04



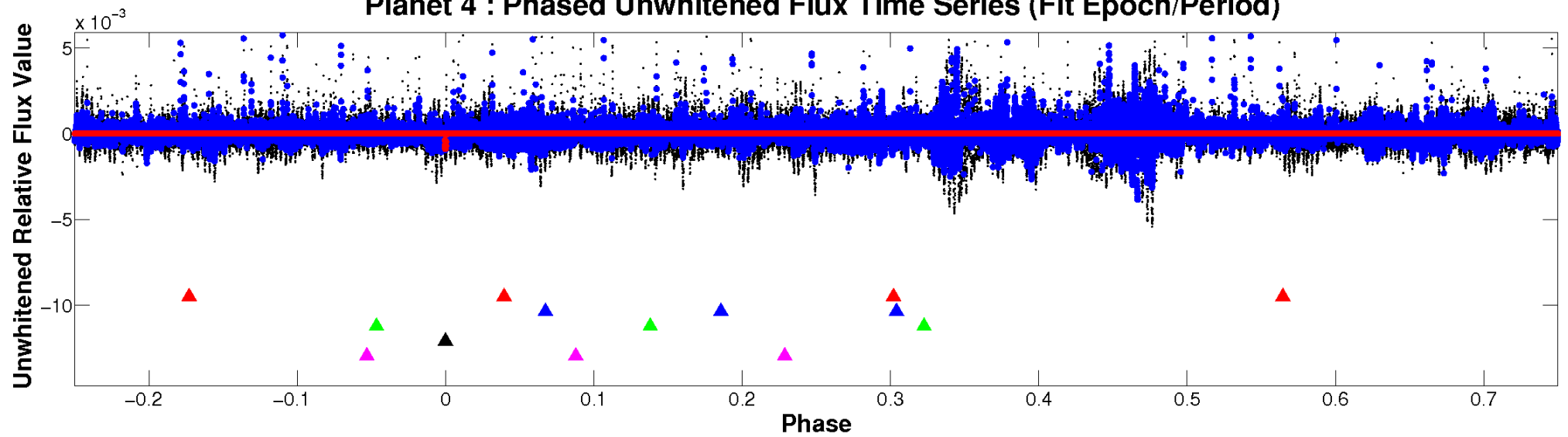
ALT Odd/Even

TCE 011186775-04

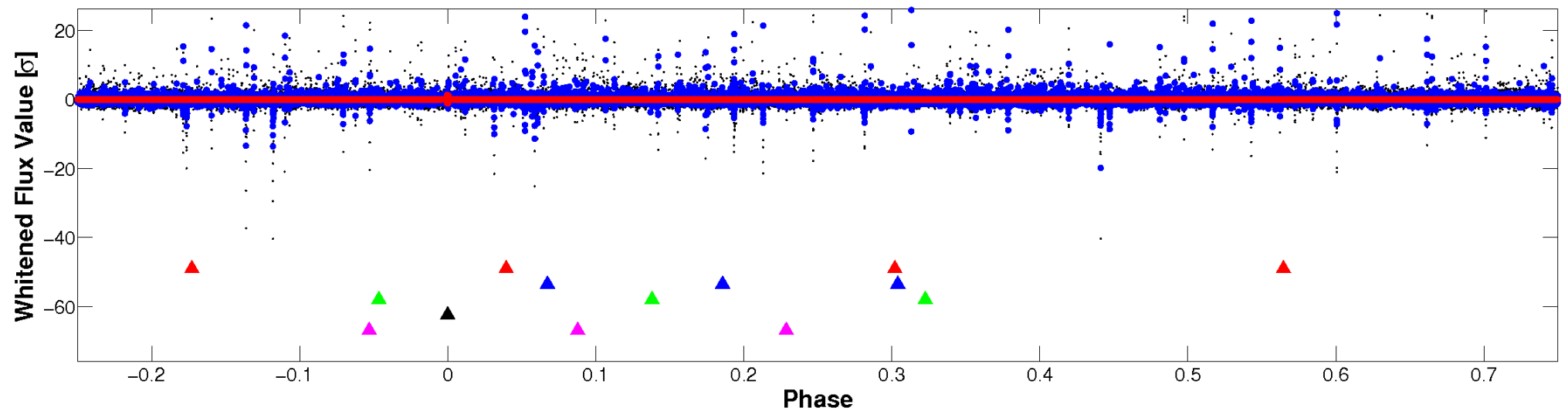


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

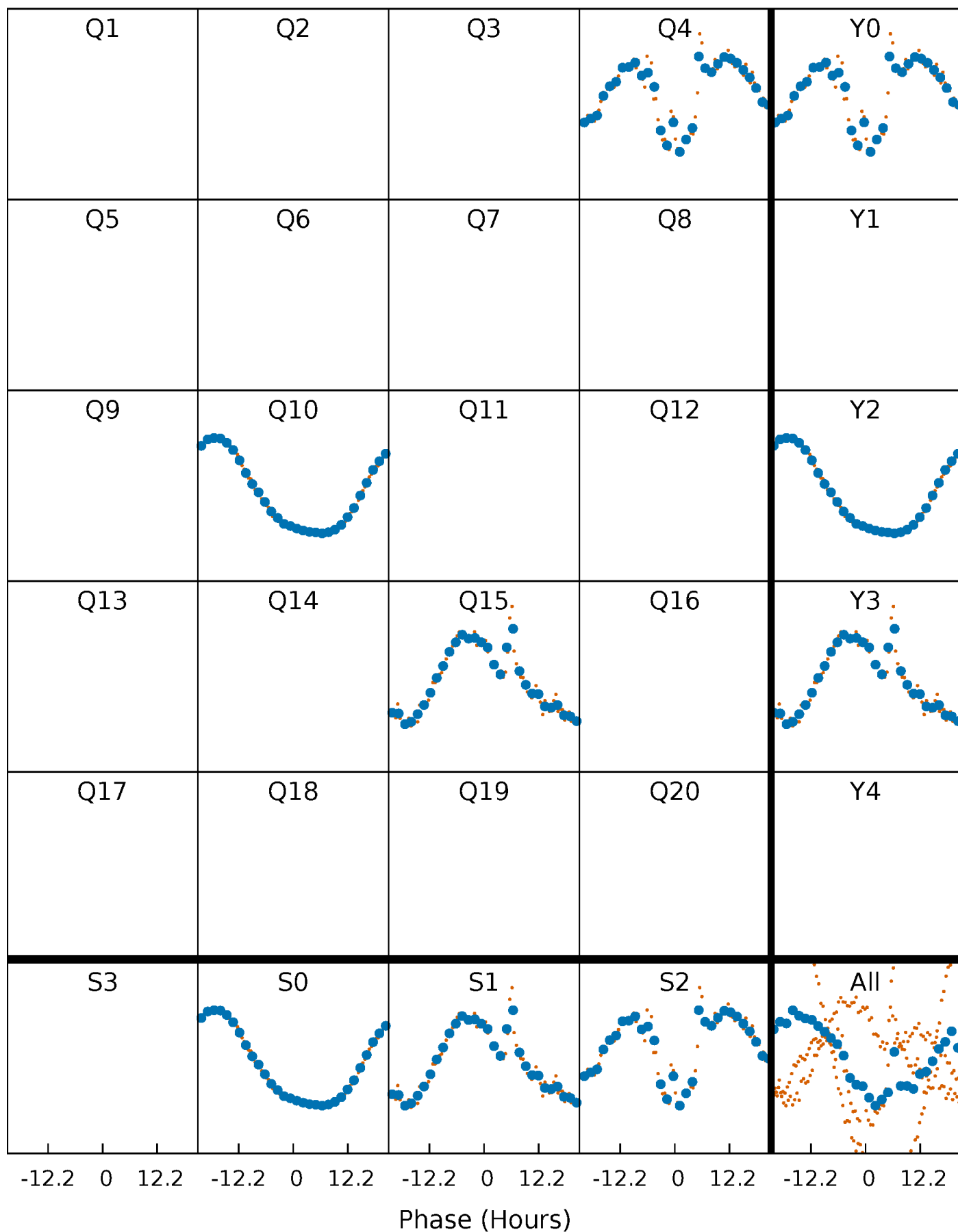


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



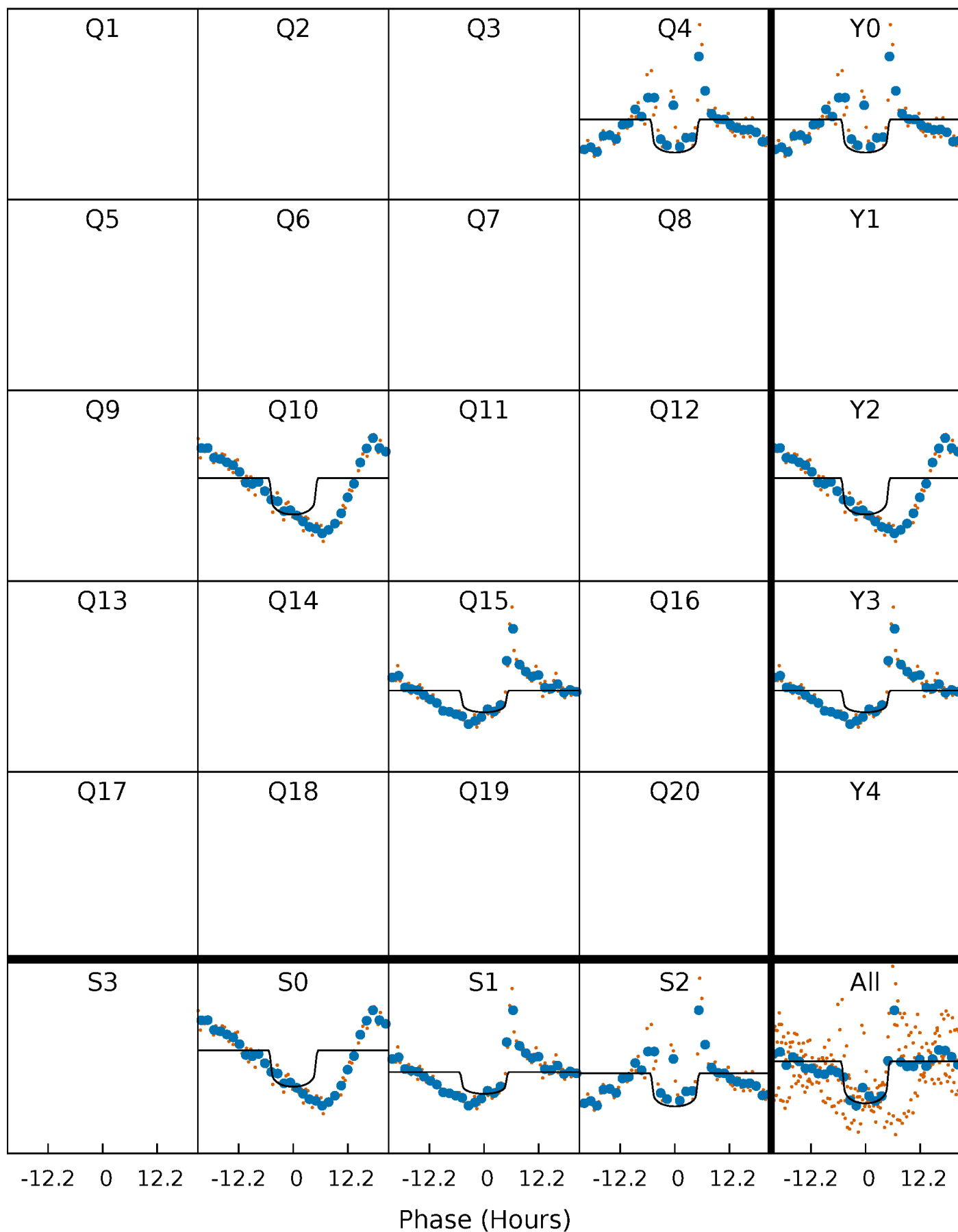
PDC Quarter-Phased Transit Curves

TCE 011186775-04 P=542.549173 Days $T_0=369.227761$ (BKJD)



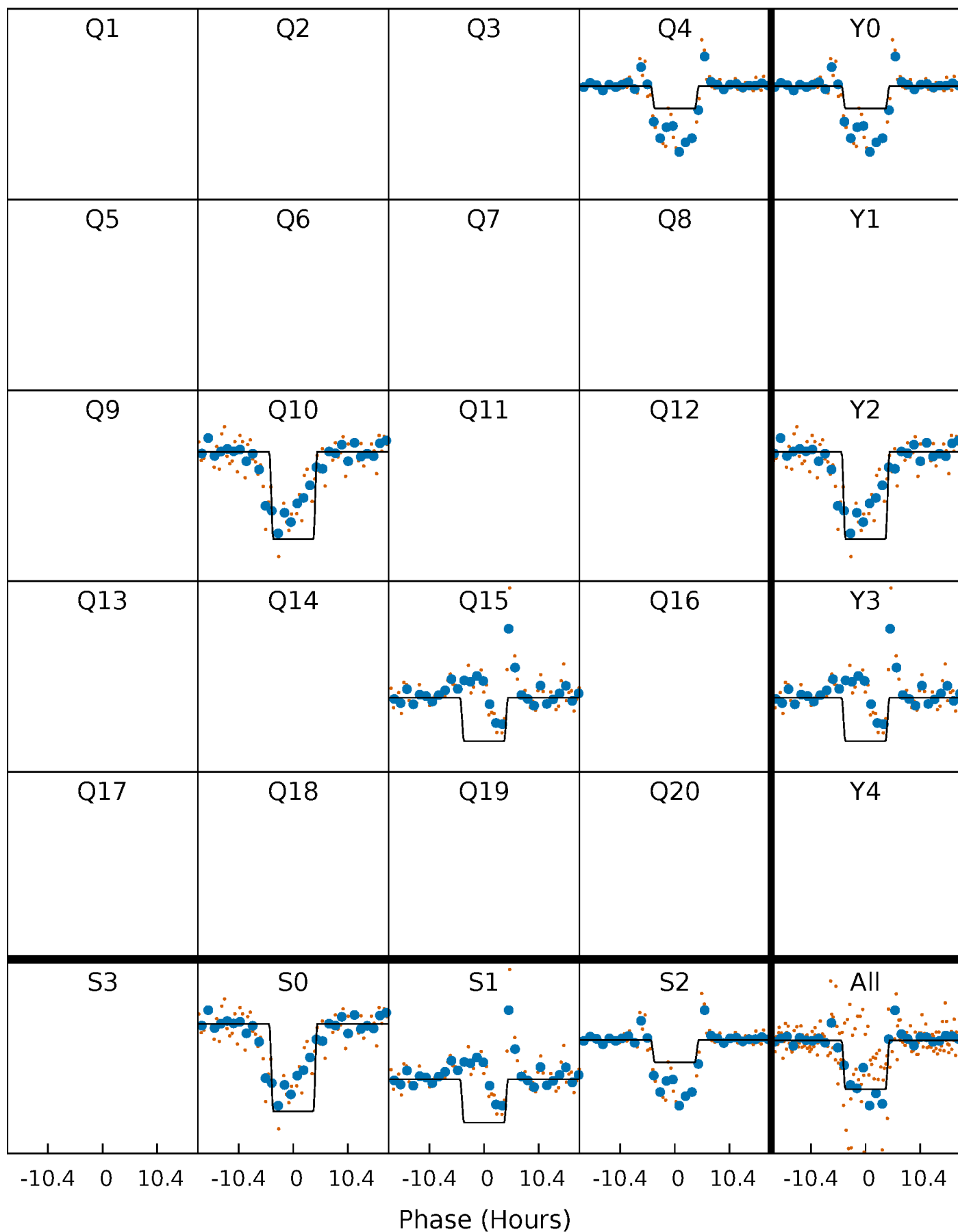
DV Quarter-Phased Transit Curves

TCE 011186775-04 $P=542.549173$ Days $T_0=369.227761$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

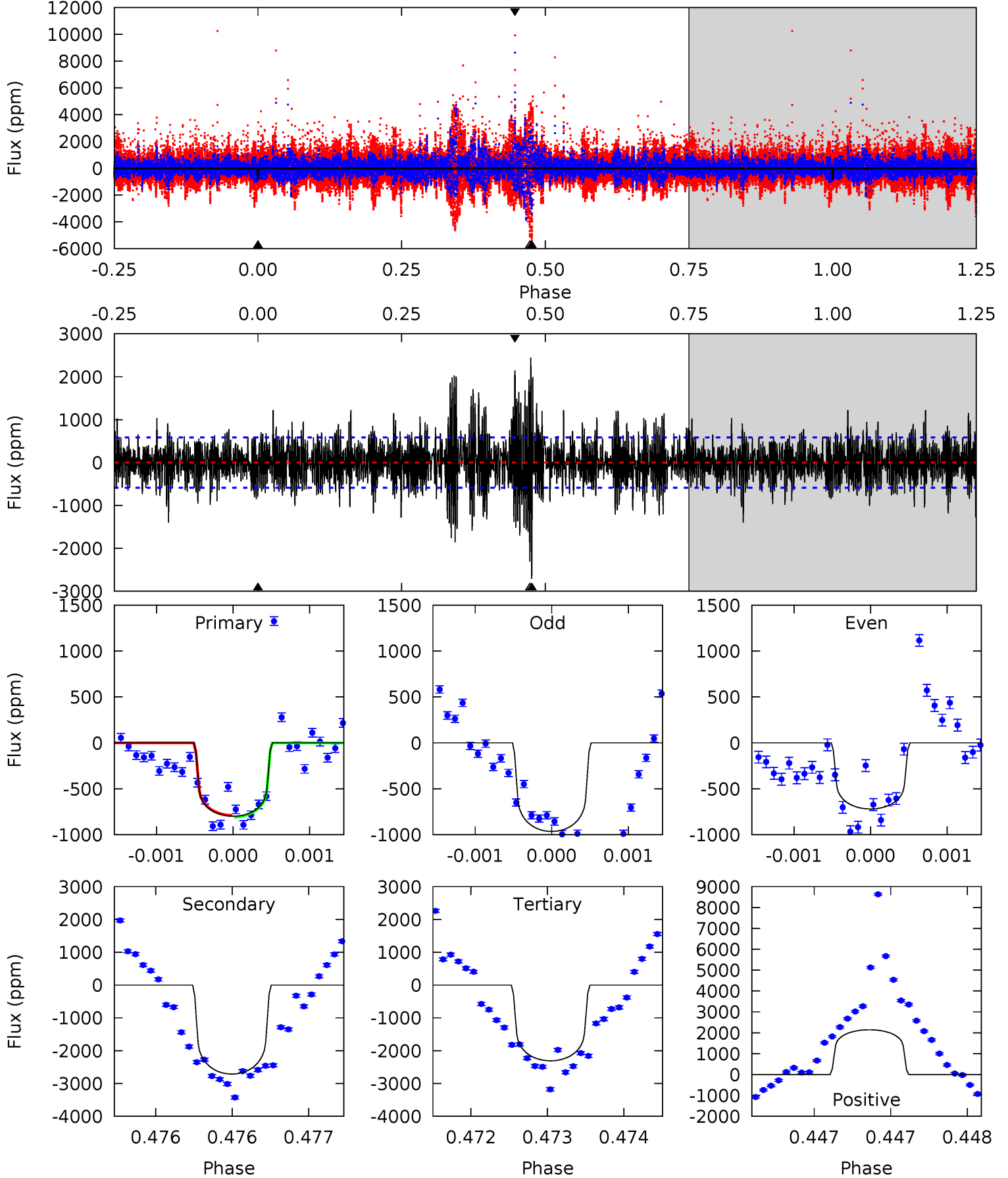
TCE 011186775-04 $P=542.558696$ Days $T_0=369.245787$ (BKJD)



DV Model-Shift Uniqueness Test

011186775-04, P = 542.549173 Days, E = 369.227761 Days

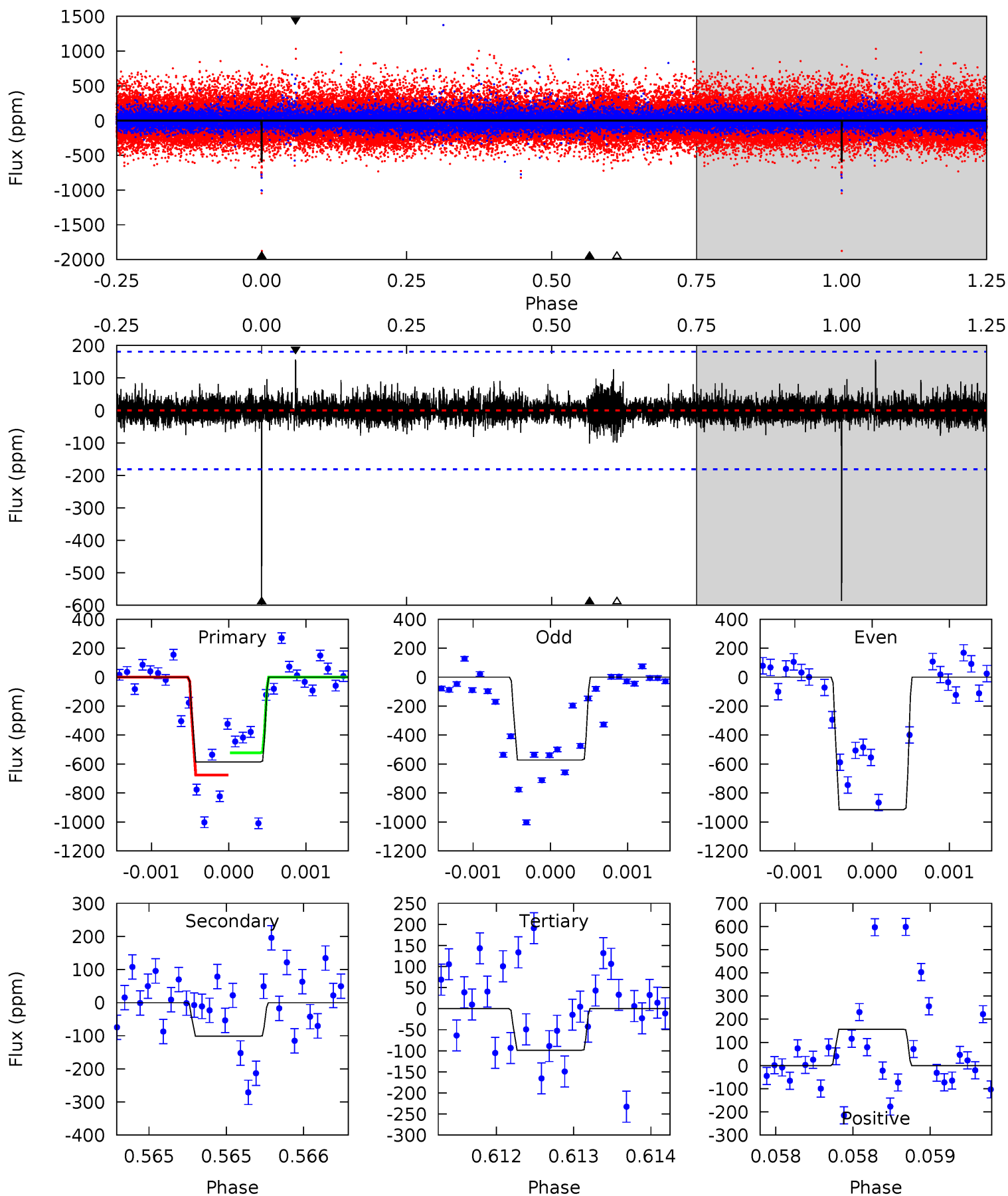
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.47	25.3	21.6	20.0	5.48	3.34	4.33	-14.1	-12.6	3.77	5.30	1.00	0.83	0.47	0.08



Alt Model-Shift Uniqueness Test

011186775-04, P = 542.558696 Days, E = 369.245787 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.9	3.10	3.01	4.77	5.52	3.40	0.64	14.9	13.1	0.09	-1.68	6.07	1.45	0.21	2.29



Stellar Parameters For KIC 011186775

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6190^{+168}_{-186}	$4.336^{+0.175}_{-0.175}$	$-0.620^{+0.300}_{-0.300}$	$1.056^{+0.287}_{-0.191}$	$0.881^{+0.114}_{-0.076}$	$1.055^{+0.816}_{-0.503}$
	+3%/-3%	+4%/-4%	+48%/-48%	+27%/-18%	+13%/-9%	+77%/-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 011186775-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-2711 ± 107	$3.36^{+0.74}_{-0.68}$	351^{+23}_{-23}	8606^{+1217}_{-777}	$205086^{+119515}_{-65323}$
Alt.	-102 ± 33	$3.32^{+0.73}_{-0.61}$	351^{+25}_{-22}	3949^{+336}_{-311}	7444^{+4689}_{-2996}

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

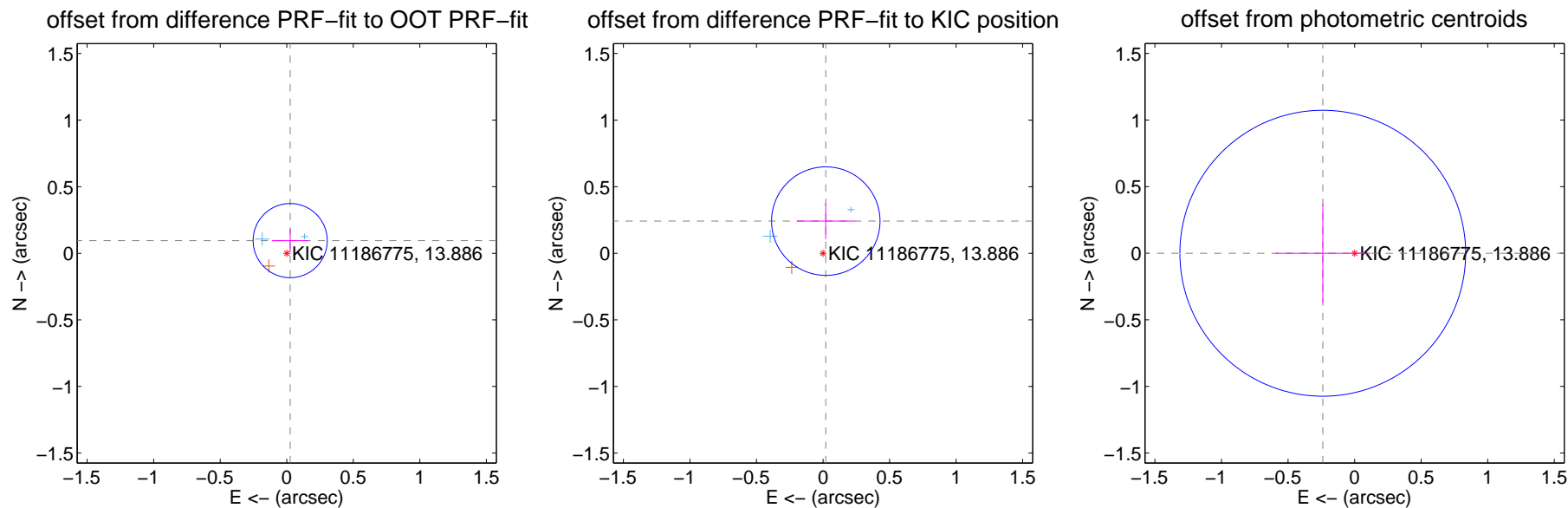
DV Centroid Data

Supplemental centroid analysis for 011186775-04. Kepler magnitude: 13.89. Transit SNR 6.49

There are 2 quarters with good PRF difference image offsets

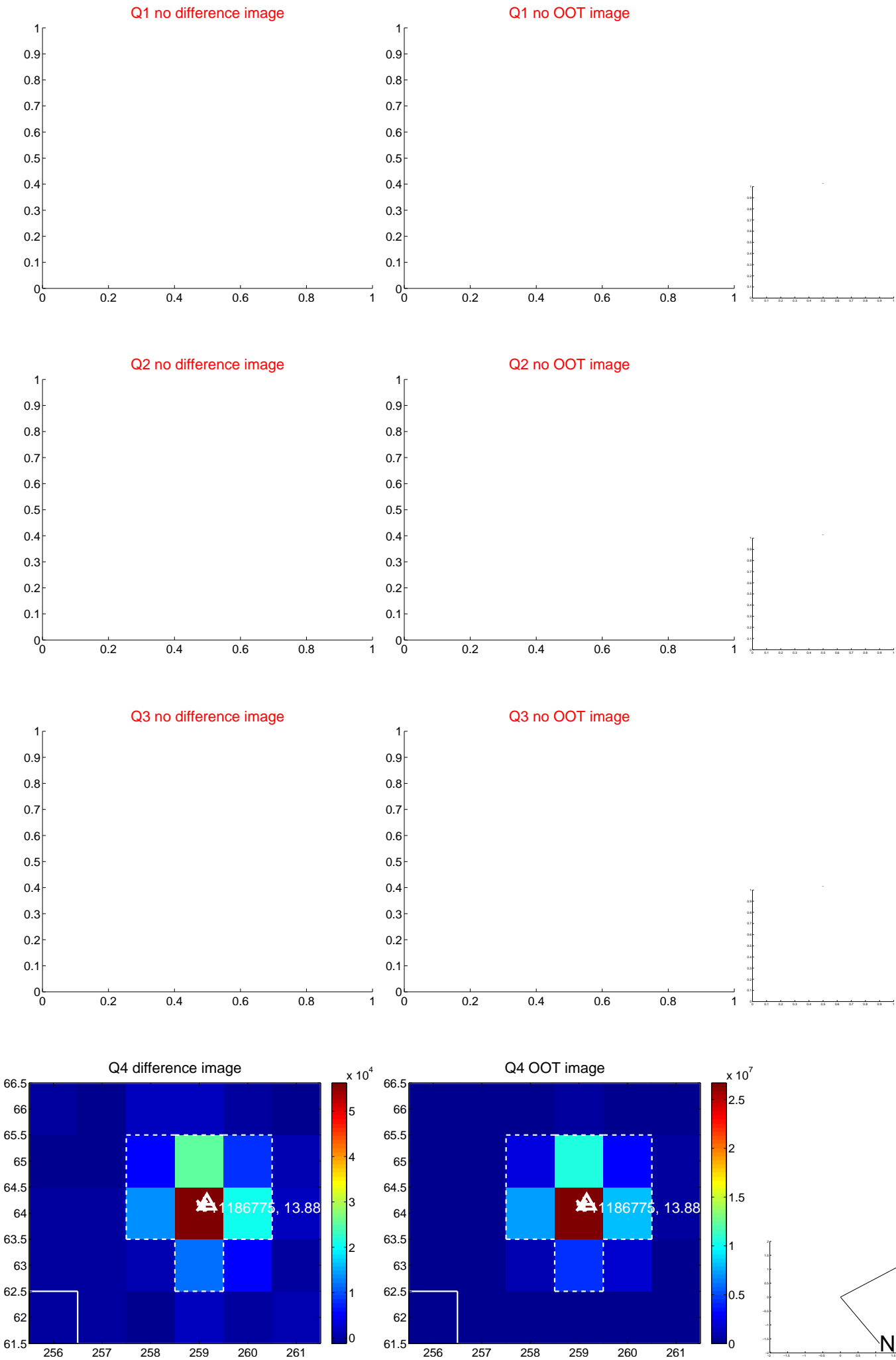
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.099 ± 0.093	1.06	-0.026 ± 0.138	0.095 ± 0.089
PRF-fit source offset from KIC position	0.242 ± 0.136	1.79	-0.021 ± 0.218	0.242 ± 0.135
photometric centroid source offset	0.24 ± 0.36	0.67	0.24 ± 0.36	-0.00 ± 0.37



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.

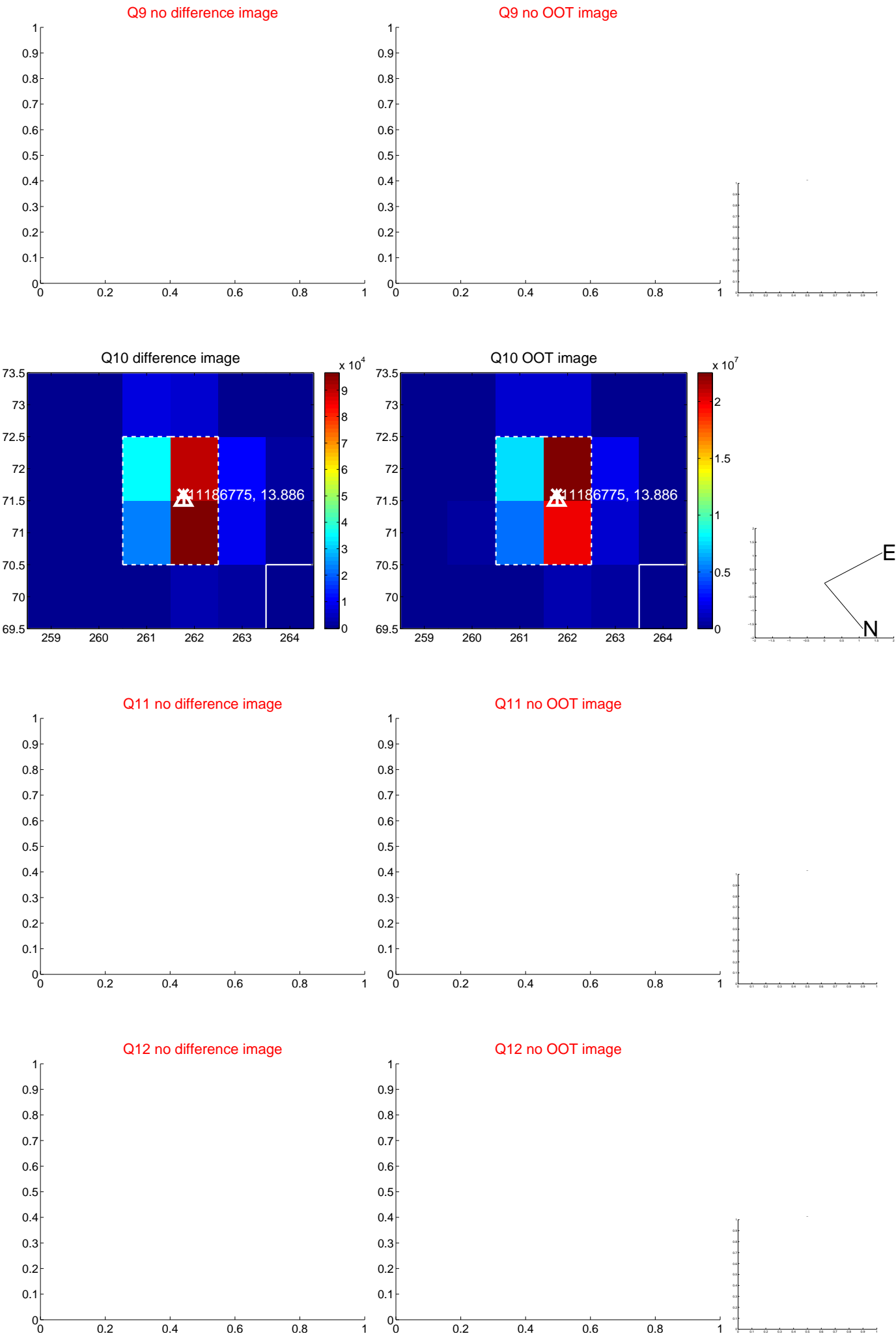
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



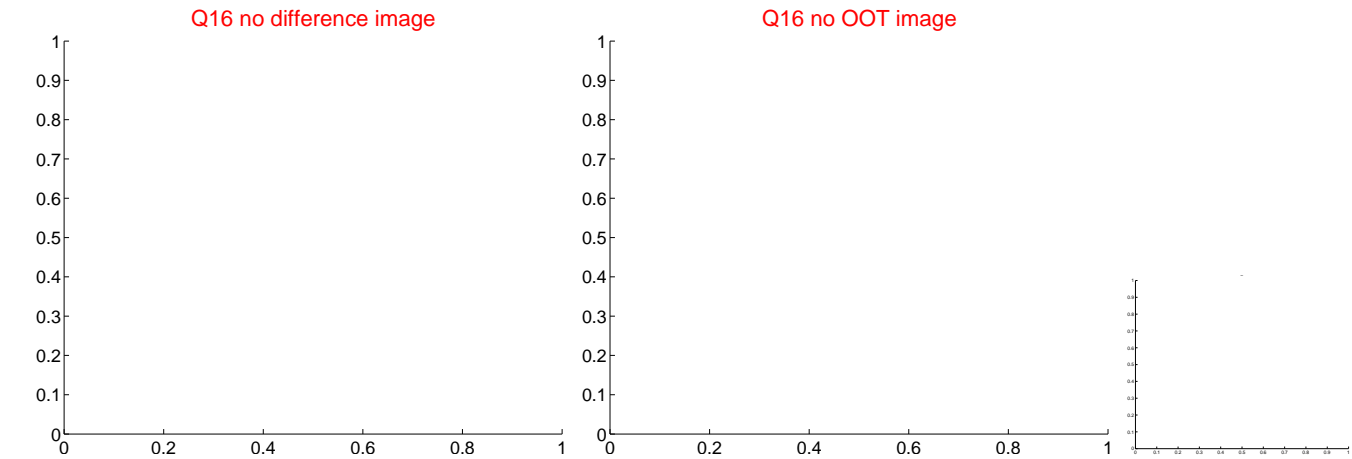
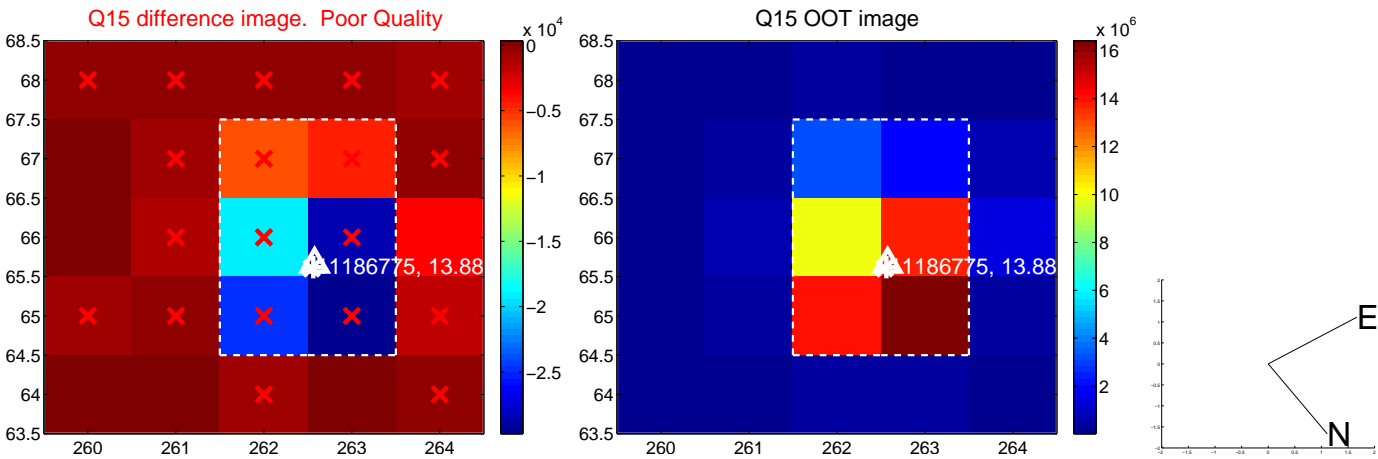
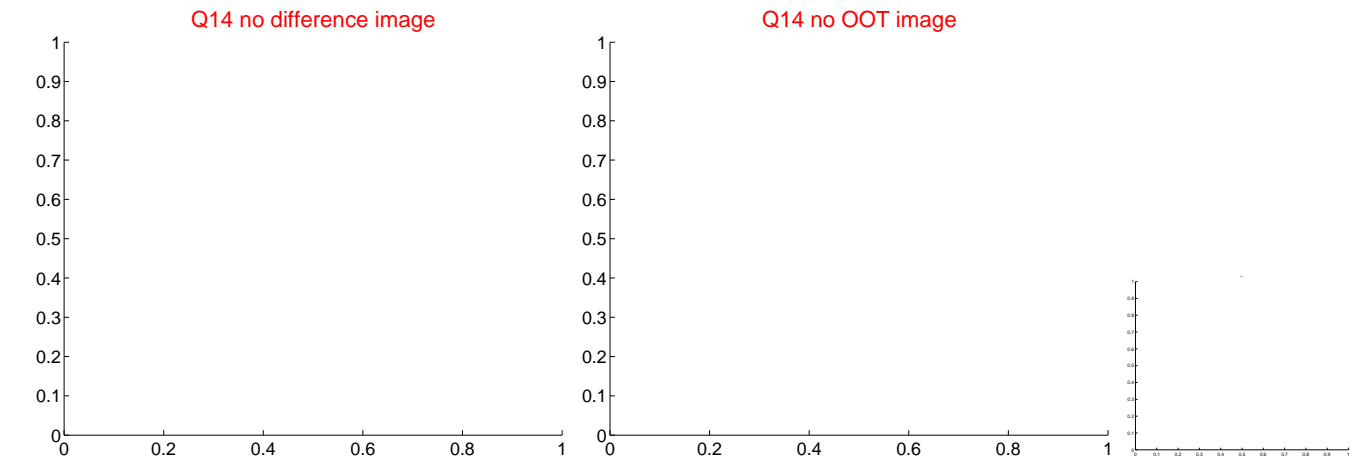
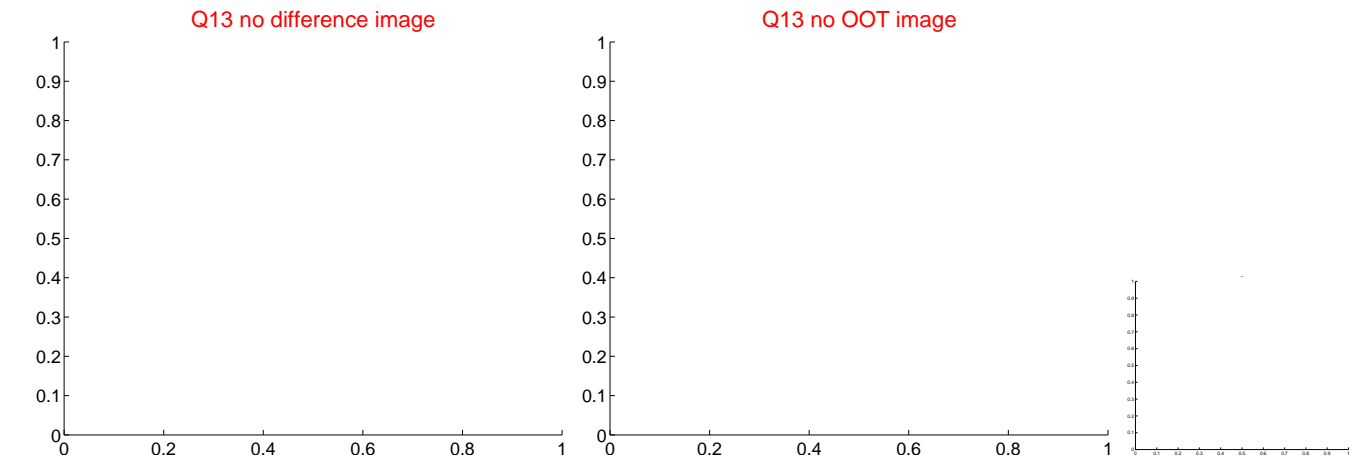
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



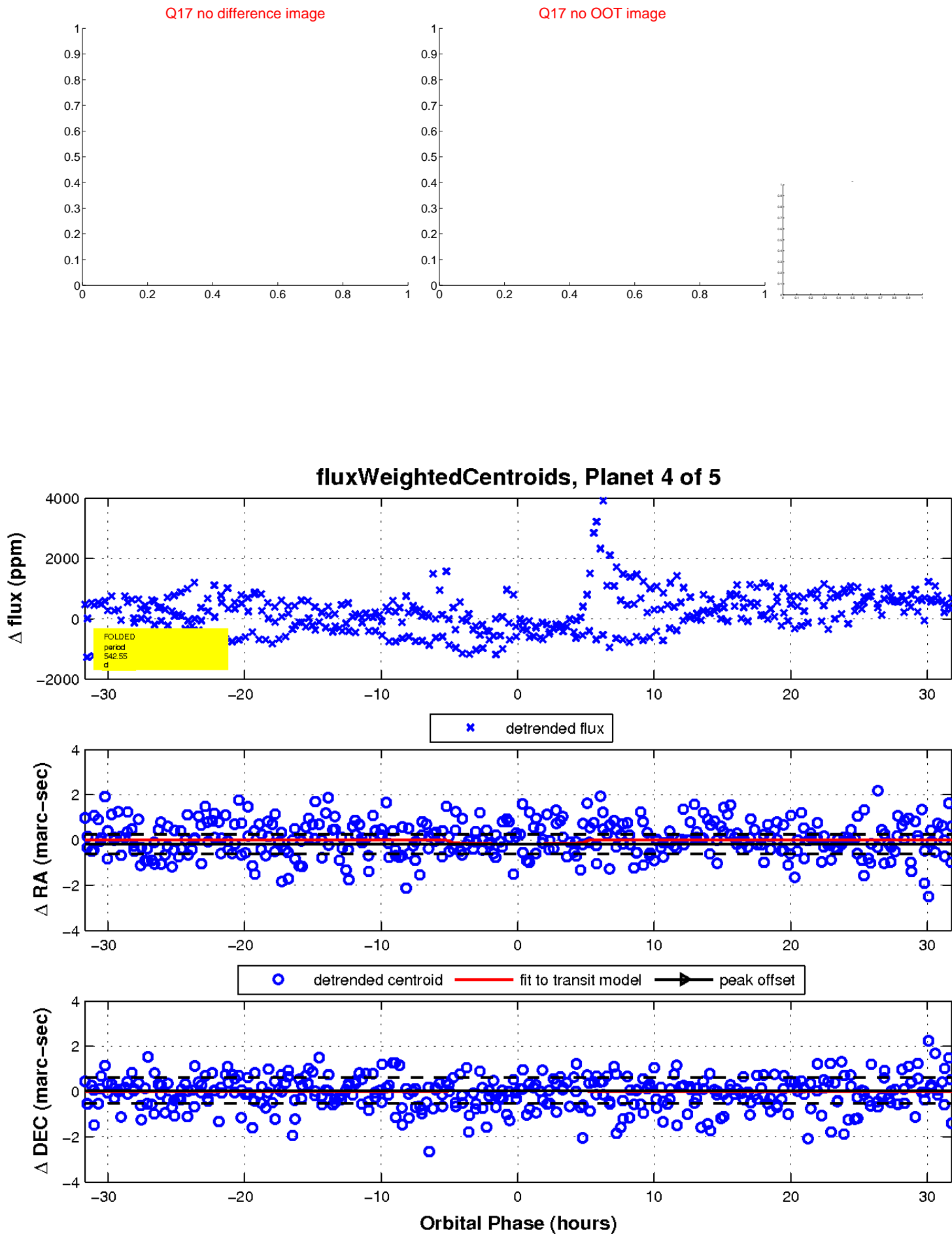
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

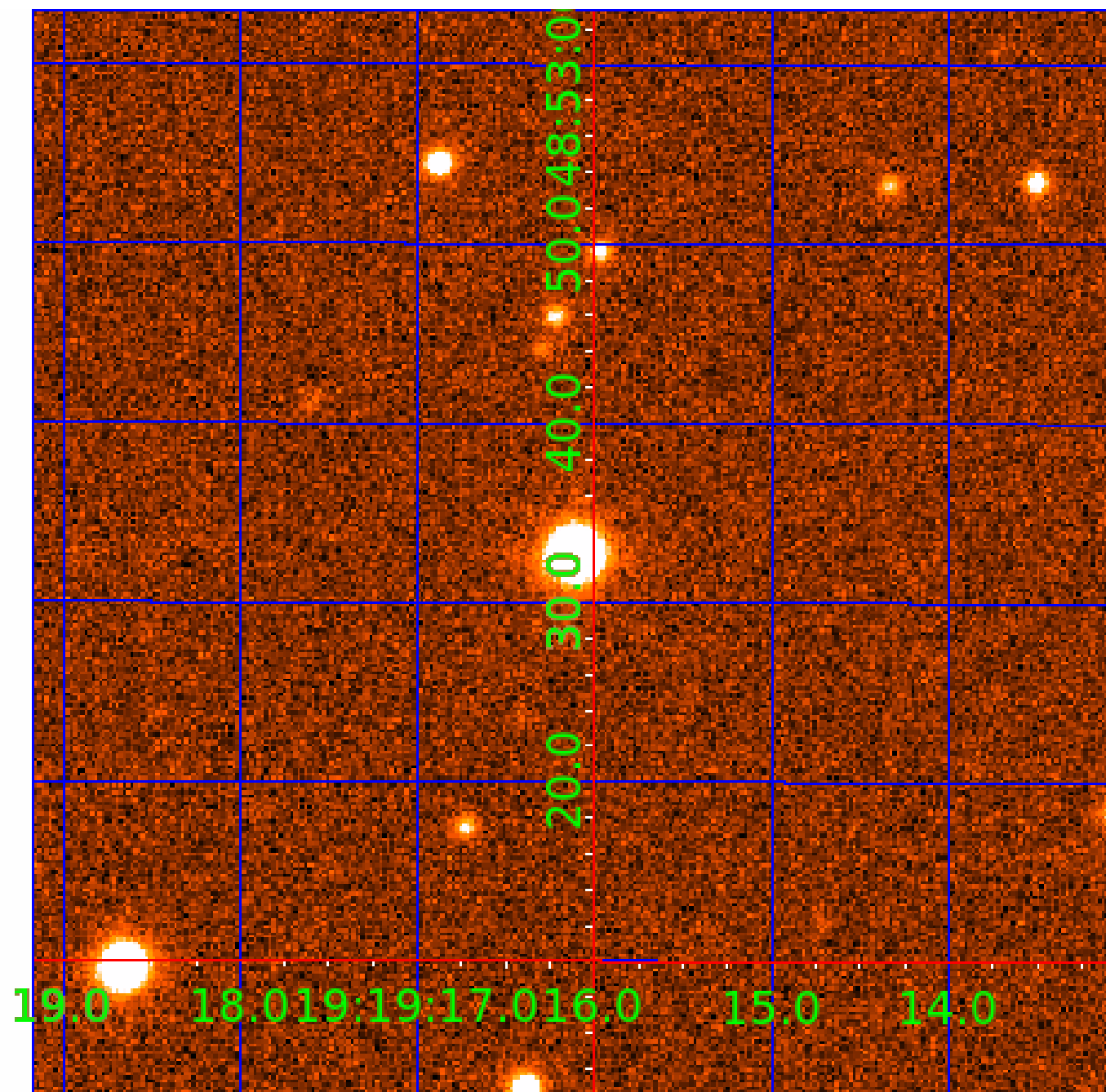


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011186775

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})
011186775-01	OBS	No	400.103686	275.454263	1918.0	31.236	14.3	6.6	1.06	6190	5.64	1.41
011186775-02	OBS	No	478.347195	534.193598	1197.3	3.694	14.9	8.7	1.06	6190	3.69	1.11
011186775-03	OBS	No	442.406781	544.275608	984.9	8.576	17.5	6.0	1.06	6190	3.37	1.24
011186775-04	OBS	No	542.549173	369.227761	892.1	10.656	11.1	6.5	1.06	6190	3.34	0.94
011186775-05	OBS	No	466.107146	493.330360	661.4	4.430	16.3	6.1	1.06	6190	2.73	1.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011186775-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—HALO_GHOST
011186775-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011186775-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011186775-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011186775-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—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.

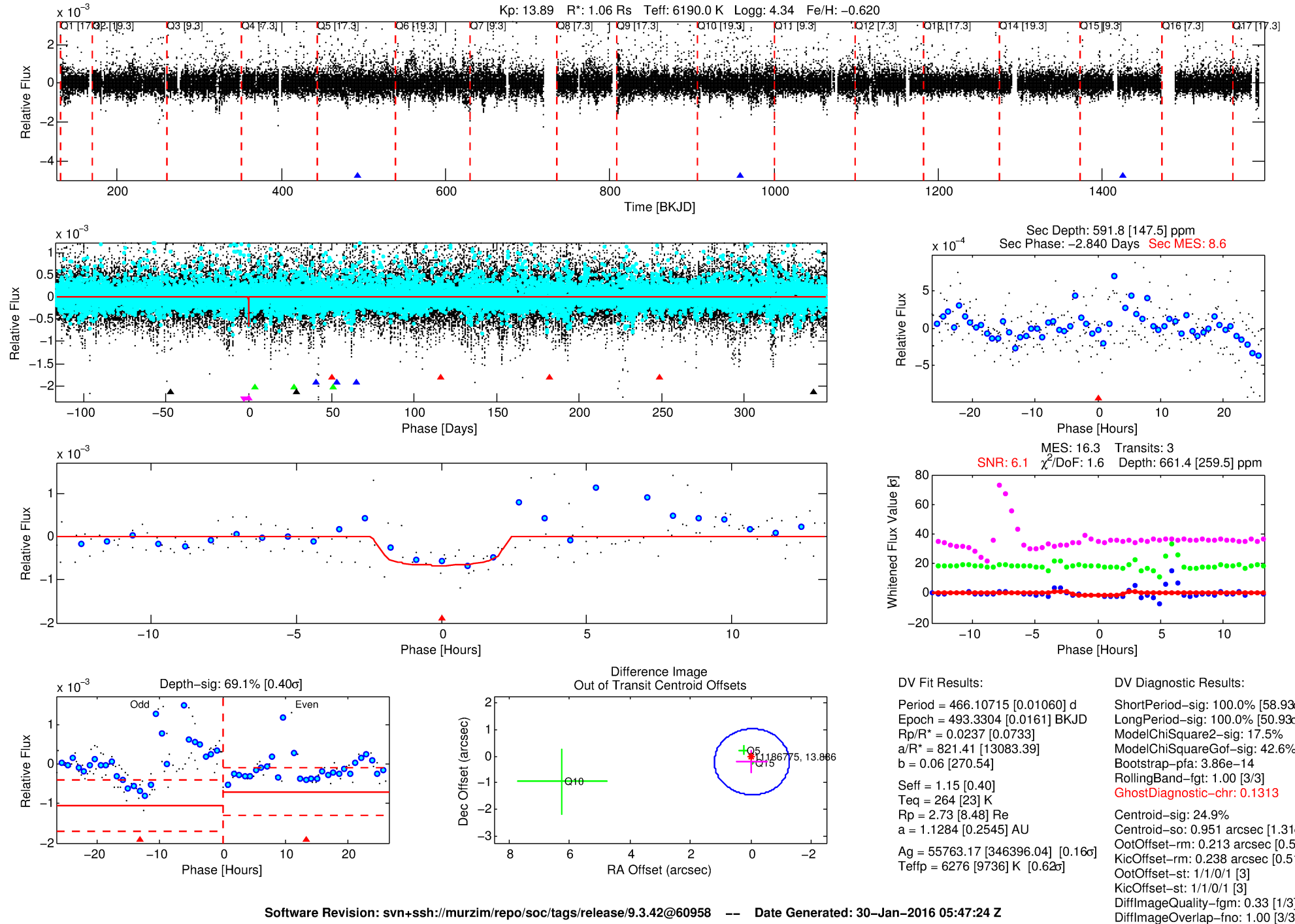
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011186775-05

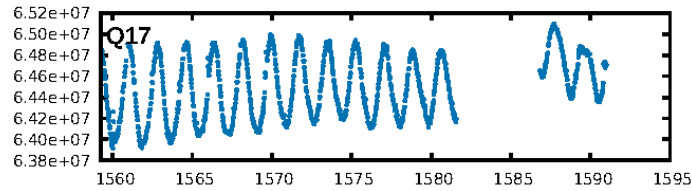
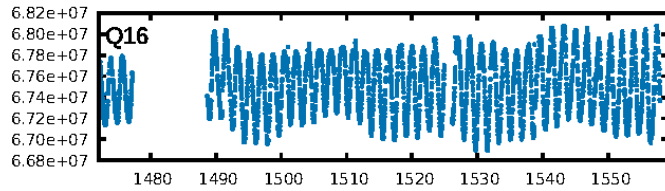
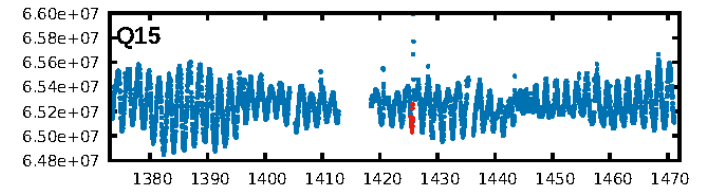
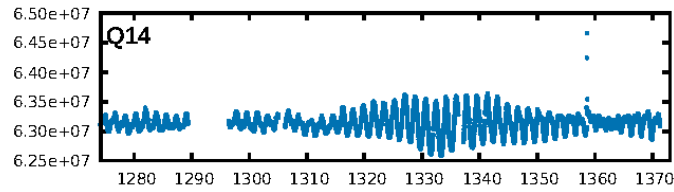
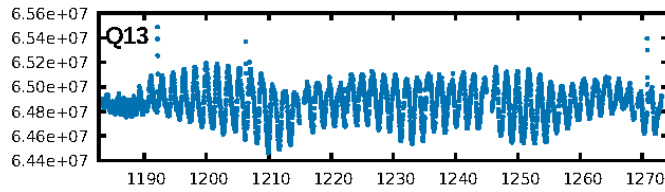
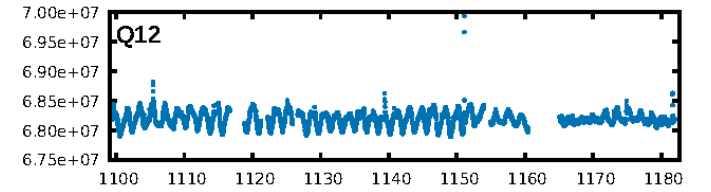
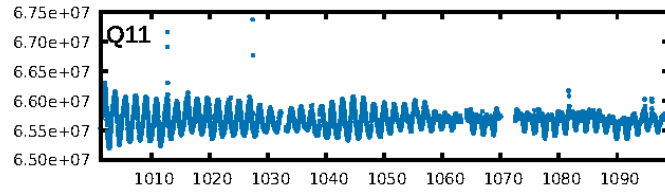
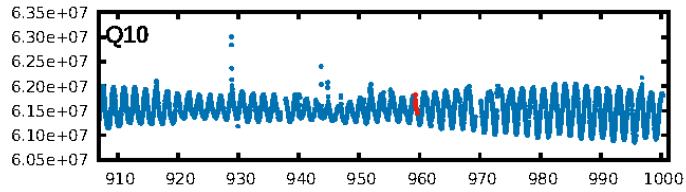
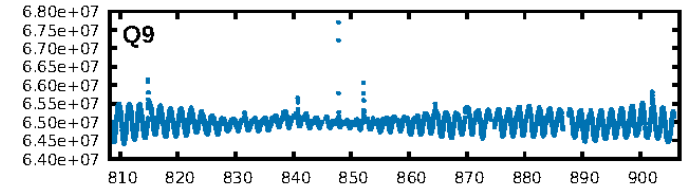
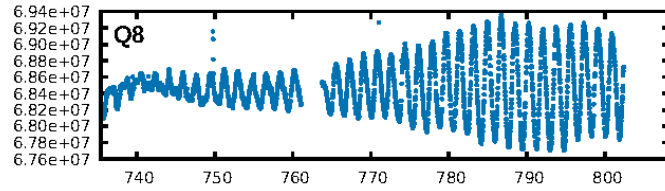
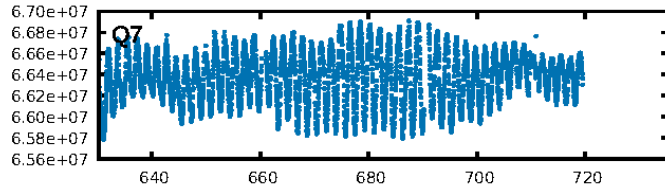
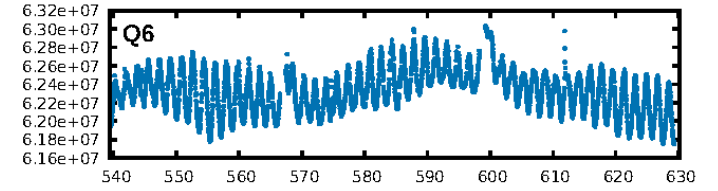
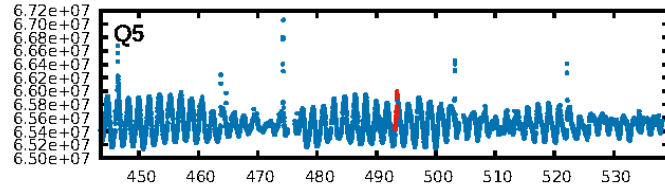
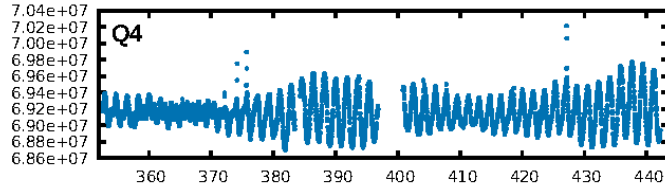
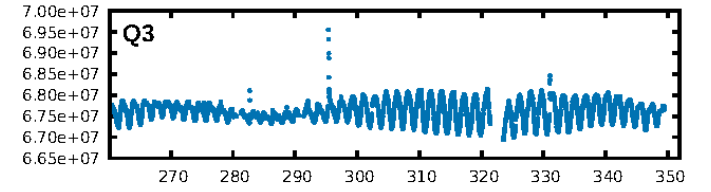
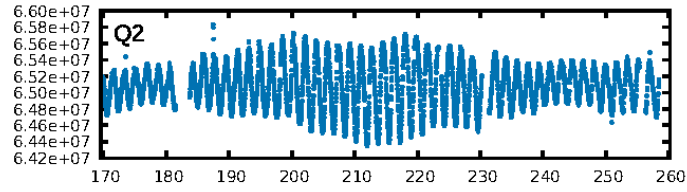
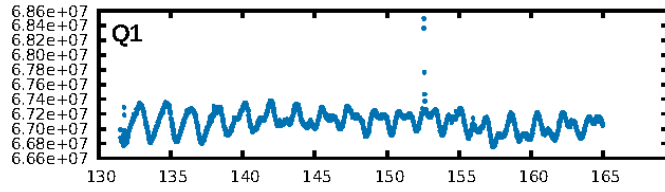
No Significant Match Found

DV One-Page Summary

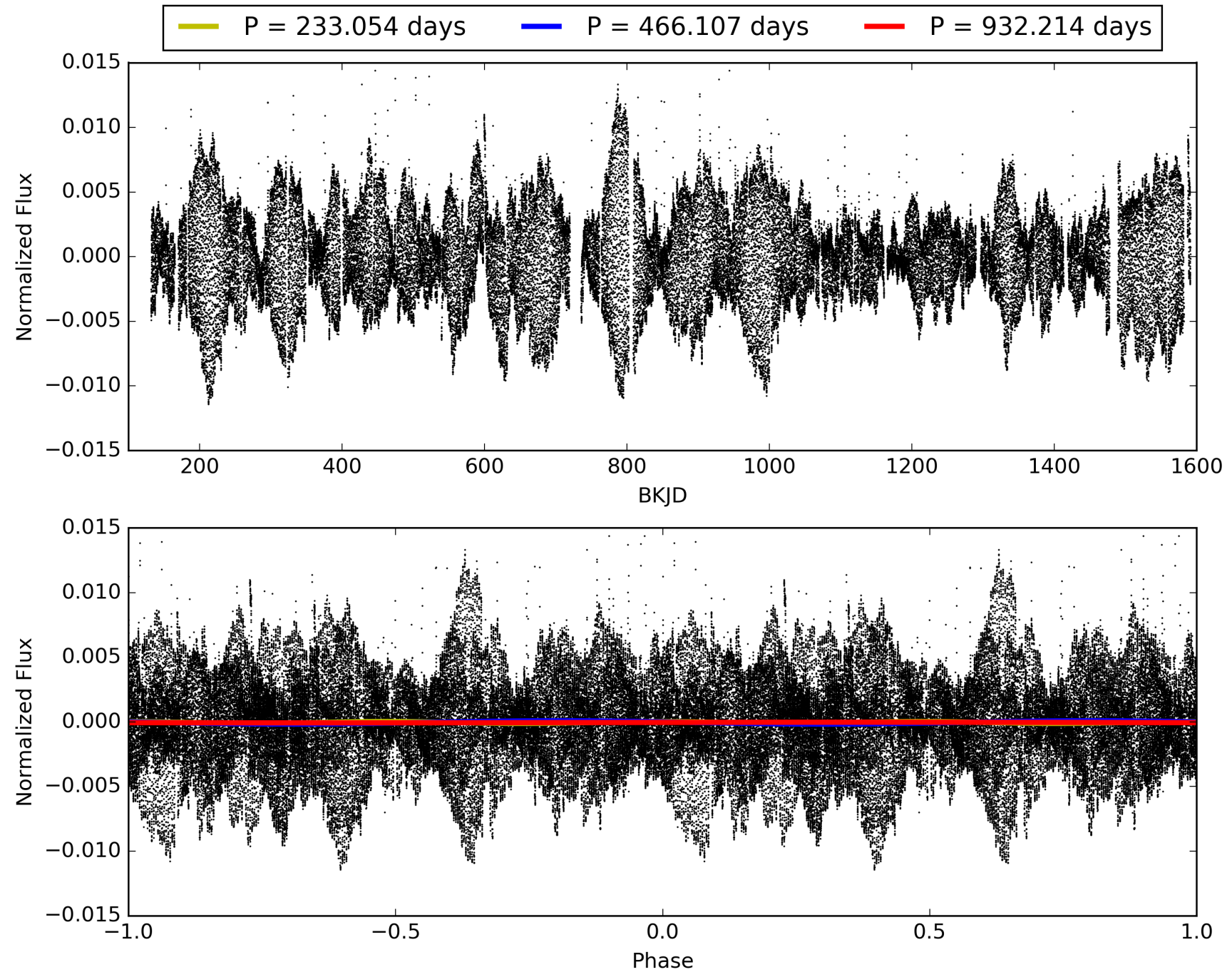
KIC: 11186775 Candidate: 5 of 5 Period: 466.107 d



TCE 011186775-05, PDC Light Curves

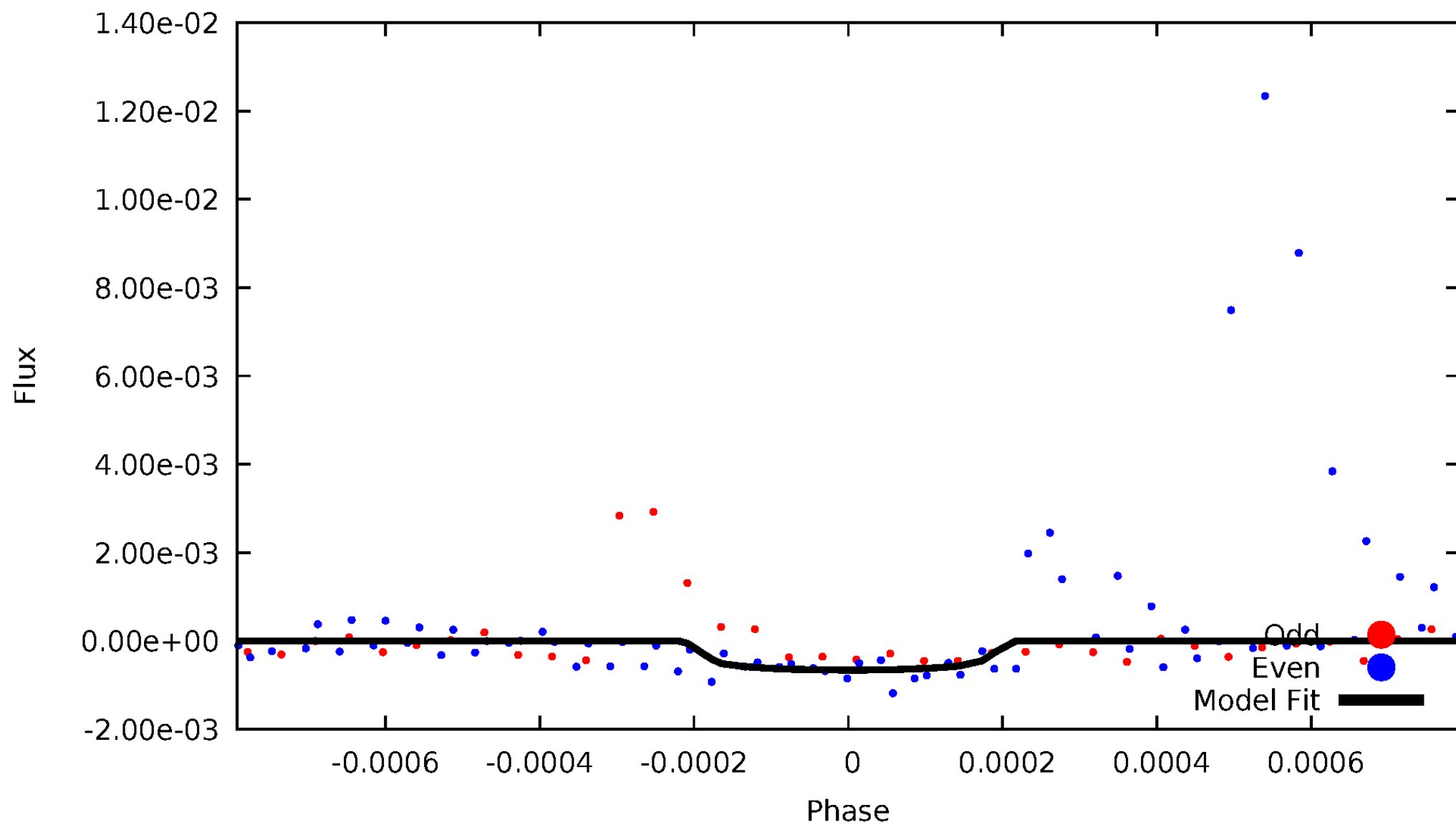


TCE 011186775-05



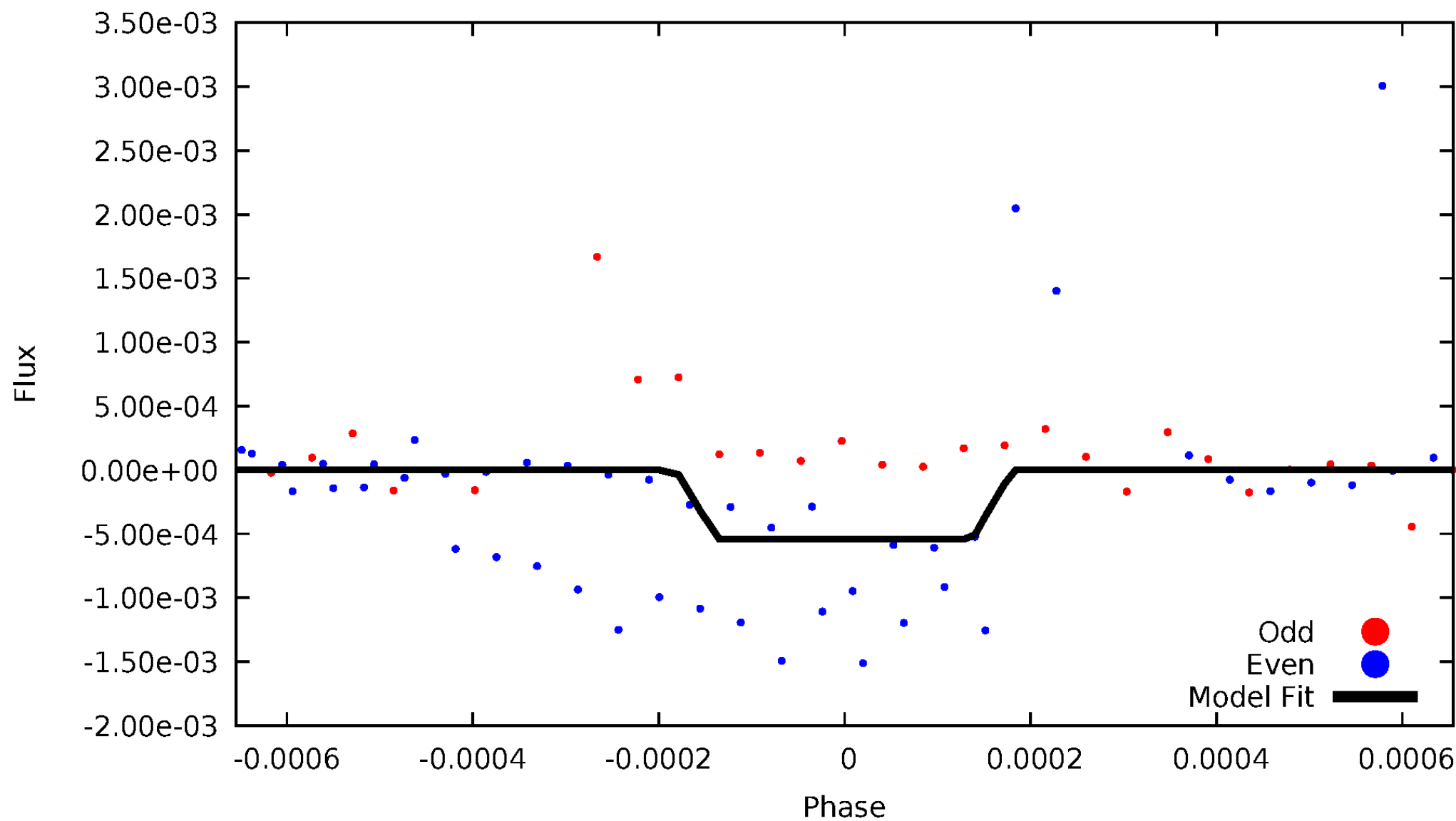
DV Odd/Even

TCE 011186775-05



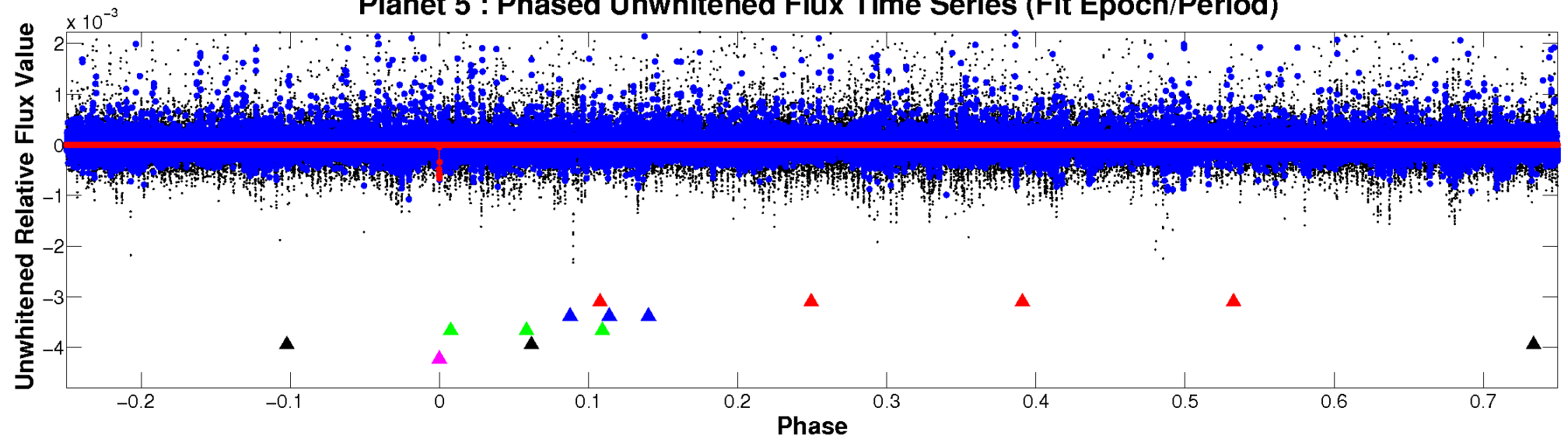
ALT Odd/Even

TCE 011186775-05

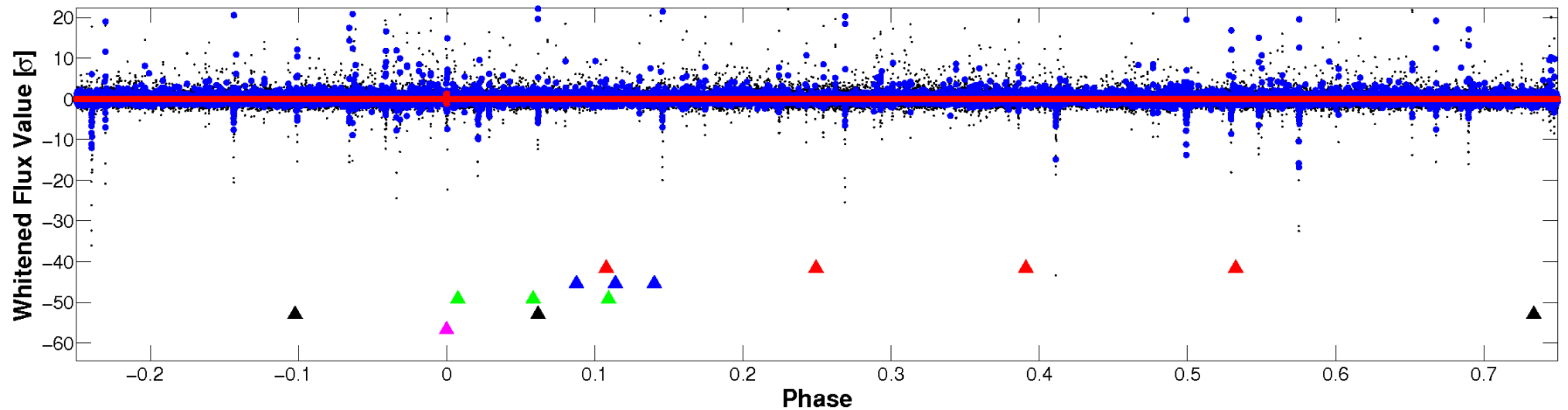


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

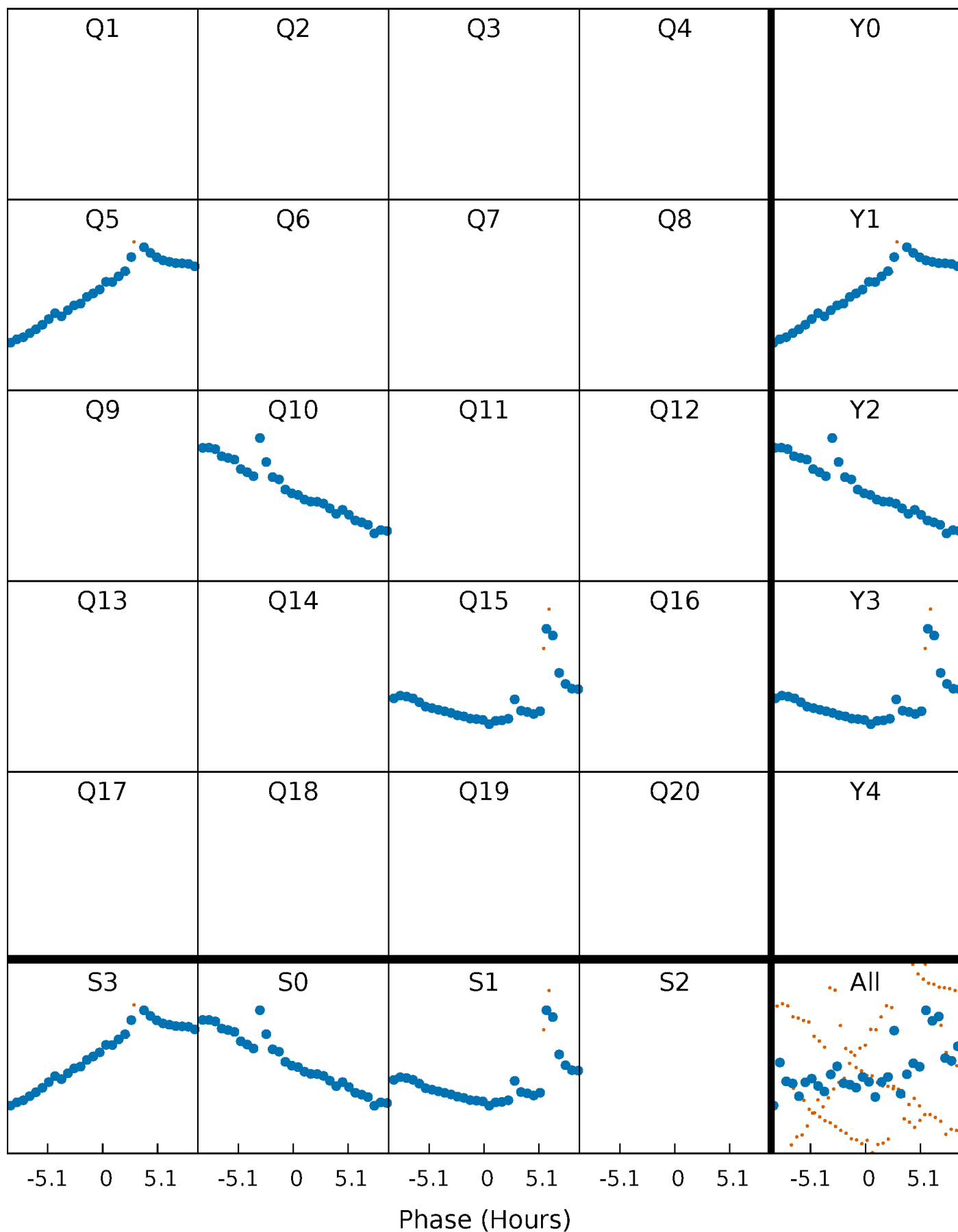


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



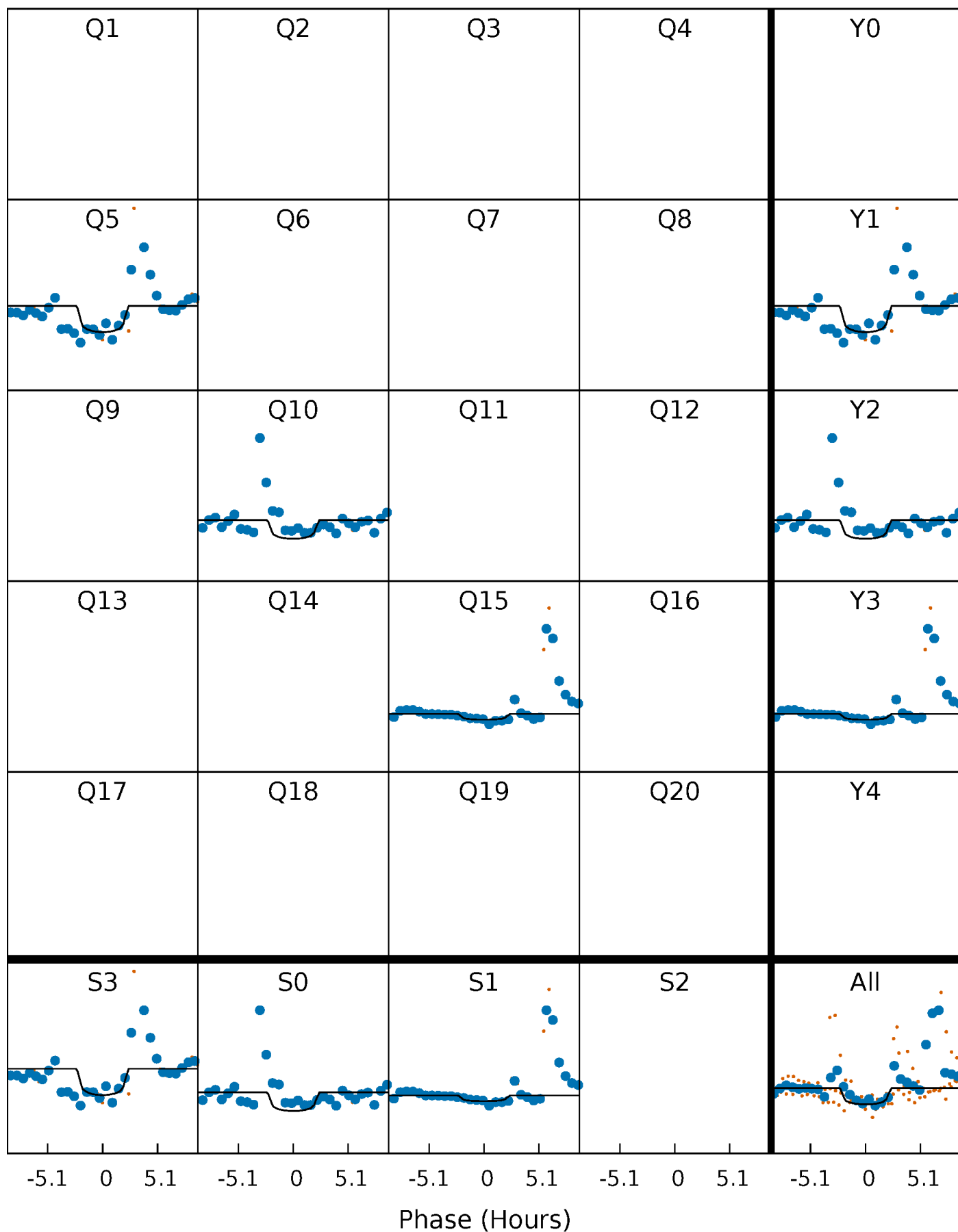
PDC Quarter-Phased Transit Curves

TCE 011186775-05 $P=466.107146$ Days $T_0=493.330360$ (BKJD)



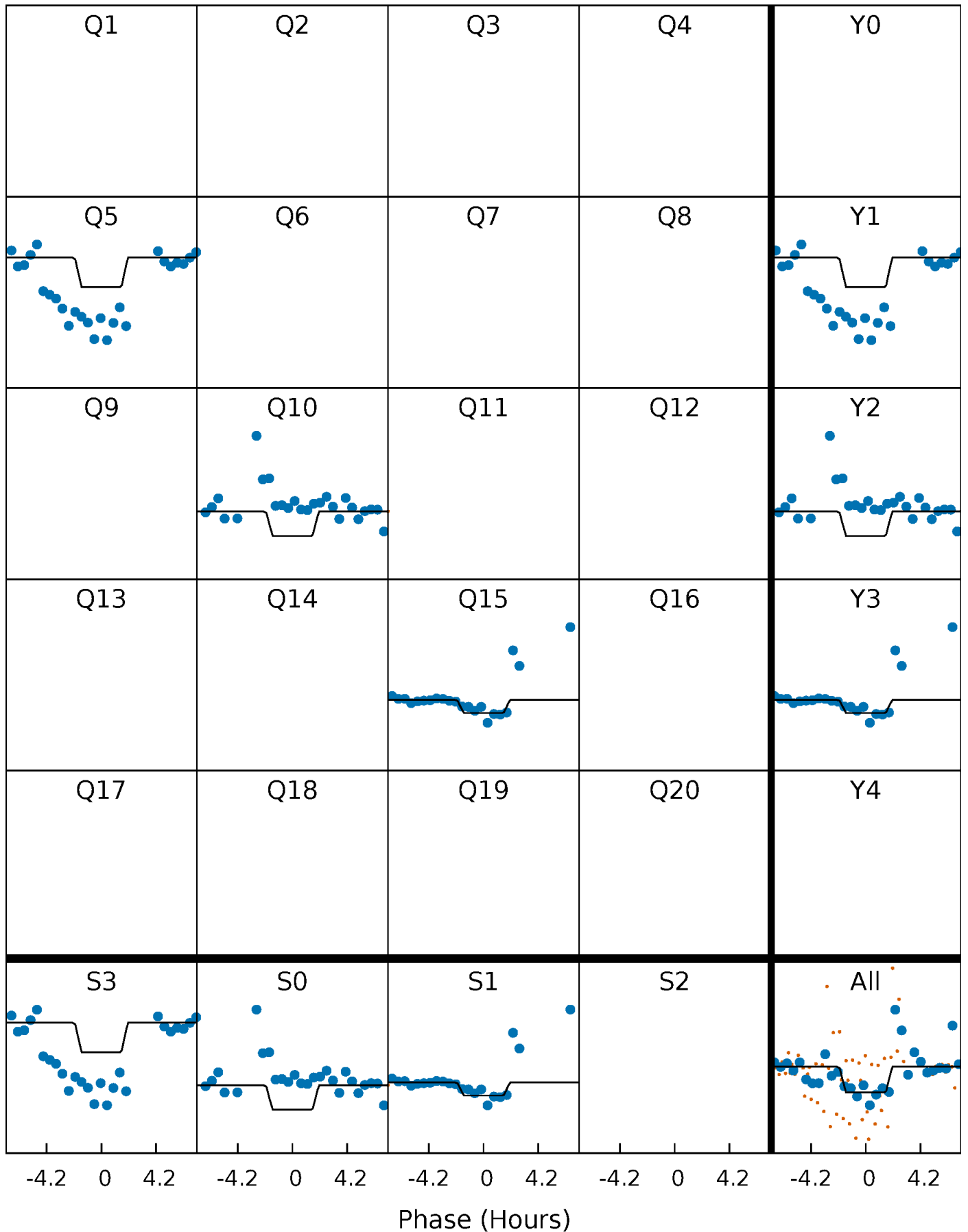
DV Quarter-Phased Transit Curves

TCE 011186775-05 $P=466.107146$ Days $T_0=493.330360$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

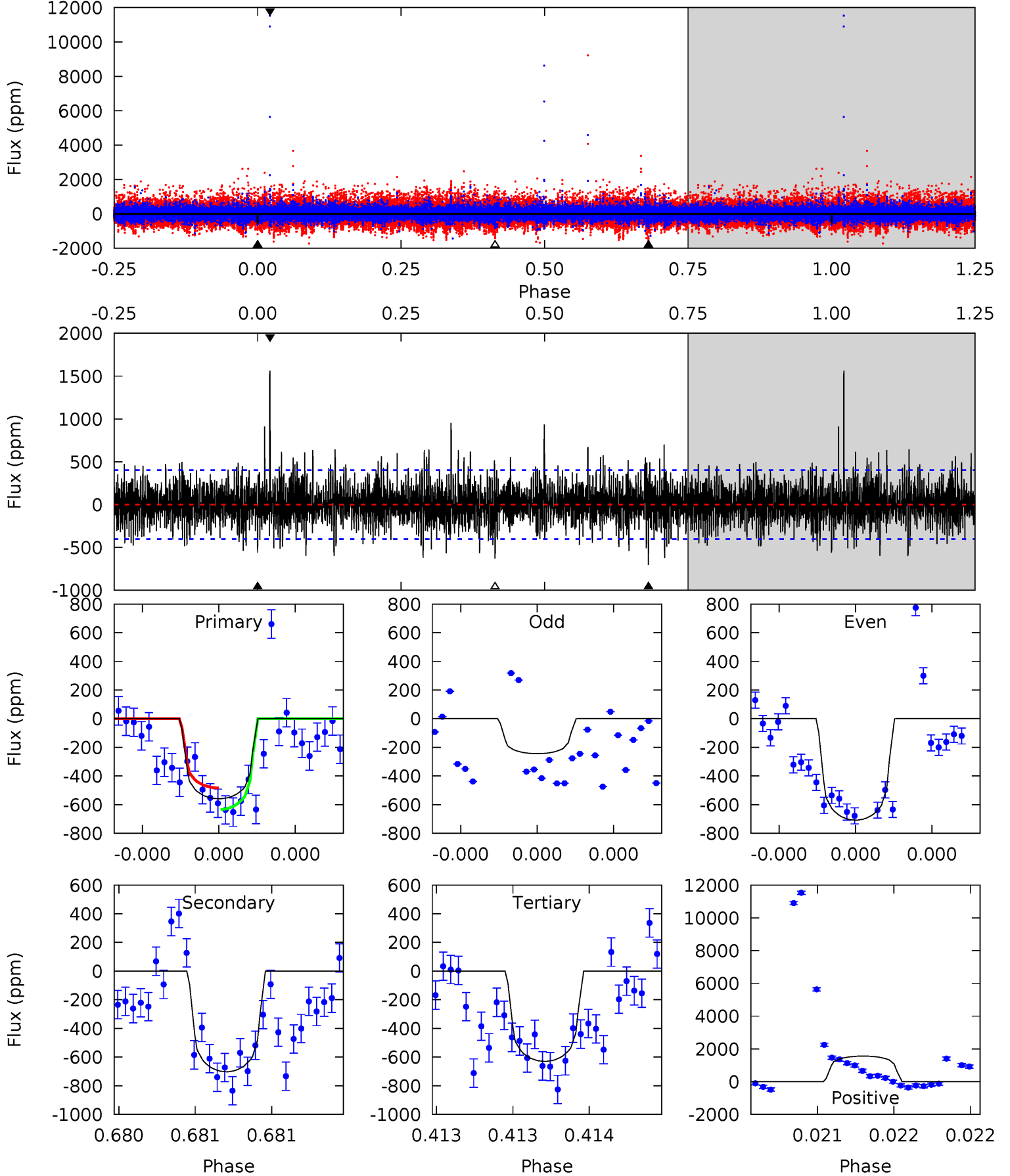
TCE 011186775-05 $P=466.103126$ Days $T_0=493.361190$ (BKJD)



DV Model-Shift Uniqueness Test

011186775-05, P = 466.107146 Days, E = 27.223214 Days

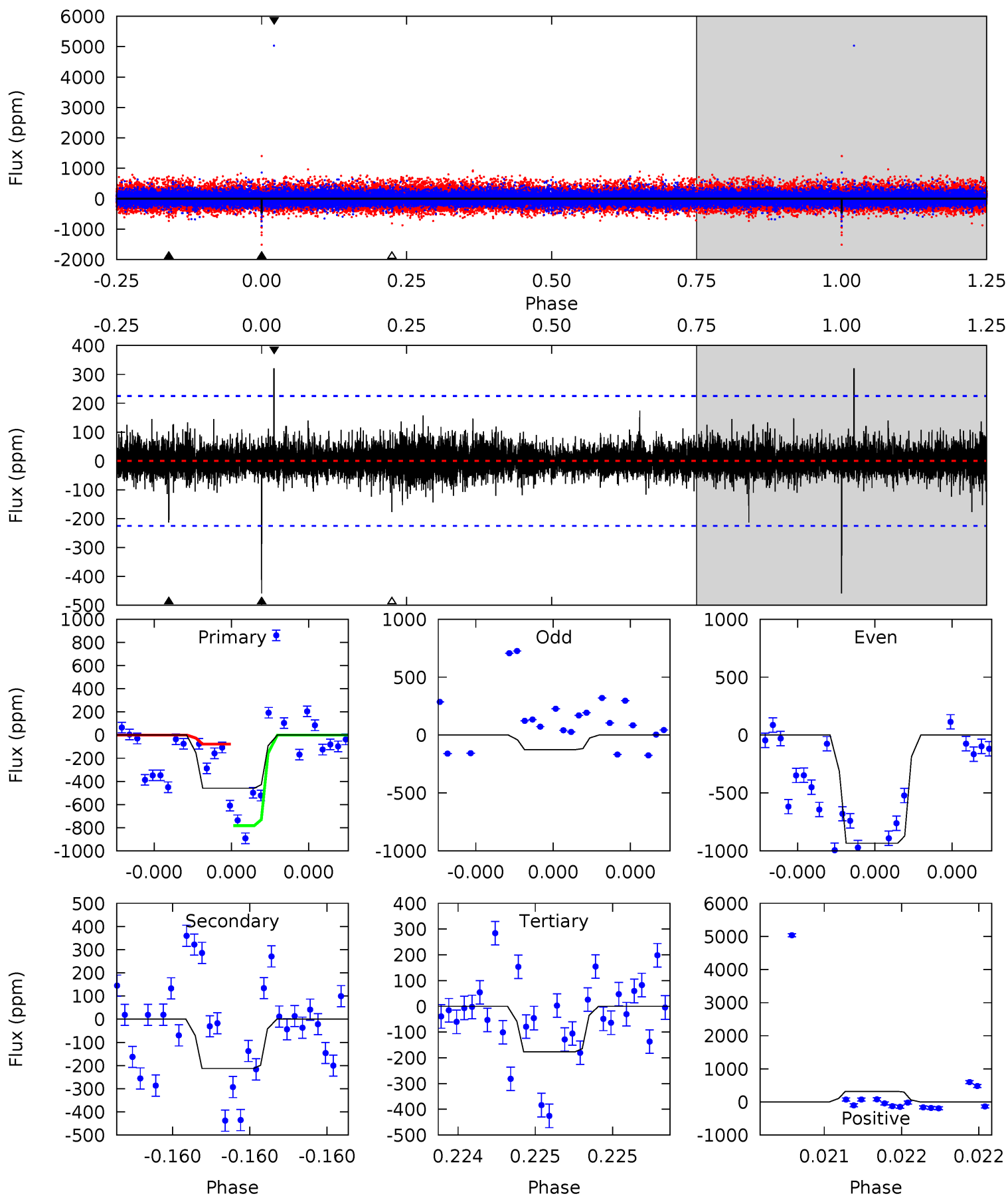
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.78	9.77	8.76	21.7	5.60	3.52	2.47	-0.98	-14.0	1.01	-12.0	2.19	0.80	0.69	1.06



Alt Model-Shift Uniqueness Test

011186775-05, P = 466.103126 Days, E = 27.258064 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.5	5.32	4.41	8.03	5.63	3.57	0.79	7.06	3.45	0.91	-2.70	9.97	1.07	0.41	8.35



Stellar Parameters For KIC 011186775

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6190^{+168}_{-186}	$4.336^{+0.175}_{-0.175}$	$-0.620^{+0.300}_{-0.300}$	$1.056^{+0.287}_{-0.191}$	$0.881^{+0.114}_{-0.076}$	$1.055^{+0.816}_{-0.503}$
	+3%/-3%	+4%/-4%	+48%/-48%	+27%/-18%	+13%/-9%	+77%/-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 011186775-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-702 ± 72	$6.72^{+6.96}_{-4.63}$	368^{+28}_{-21}	4372^{+3233}_{-930}	$10877^{+104298}_{-8138}$
Alt.	-213 ± 40	$6.62^{+6.99}_{-4.54}$	368^{+28}_{-23}	3567^{+2045}_{-690}	3432^{+28723}_{-2650}

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 $A_{obs} \gg 1.0$

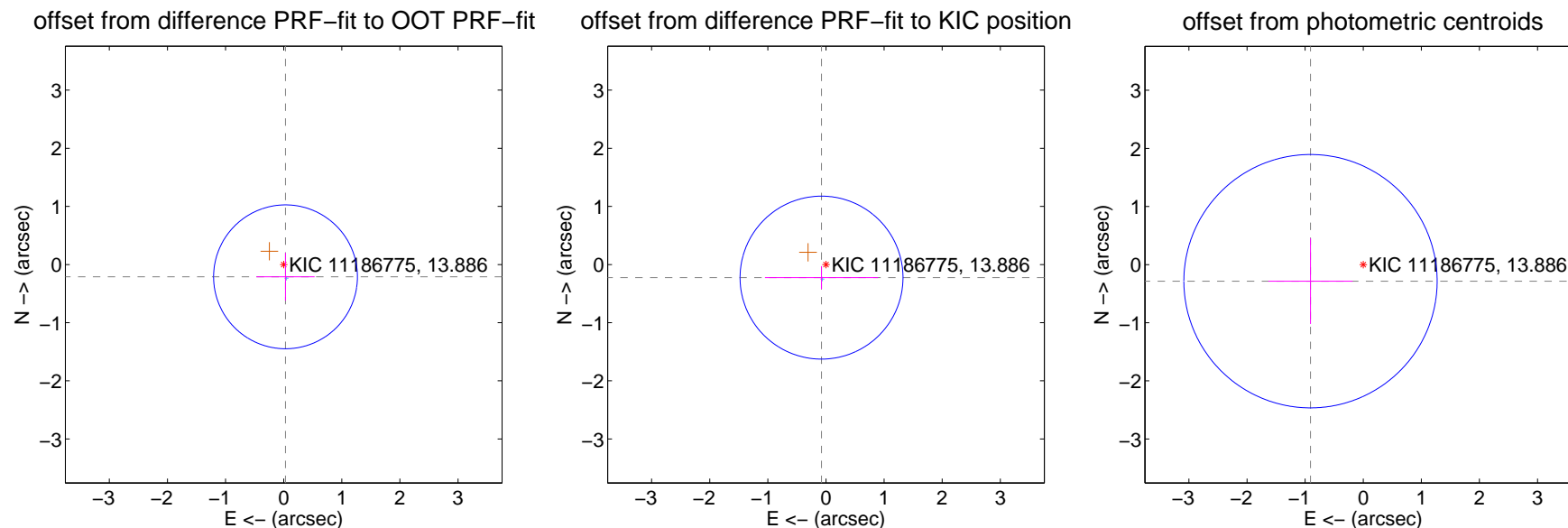
DV Centroid Data

Supplemental centroid analysis for 011186775-05. Kepler magnitude: 13.89. Transit SNR 6.07

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.213 ± 0.412	0.52	-0.031 ± 0.501	-0.211 ± 0.410
PRF-fit source offset from KIC position	0.238 ± 0.467	0.51	0.077 ± 0.973	-0.225 ± 0.197
photometric centroid source offset	0.95 ± 0.73	1.31	0.91 ± 0.73	-0.29 ± 0.74

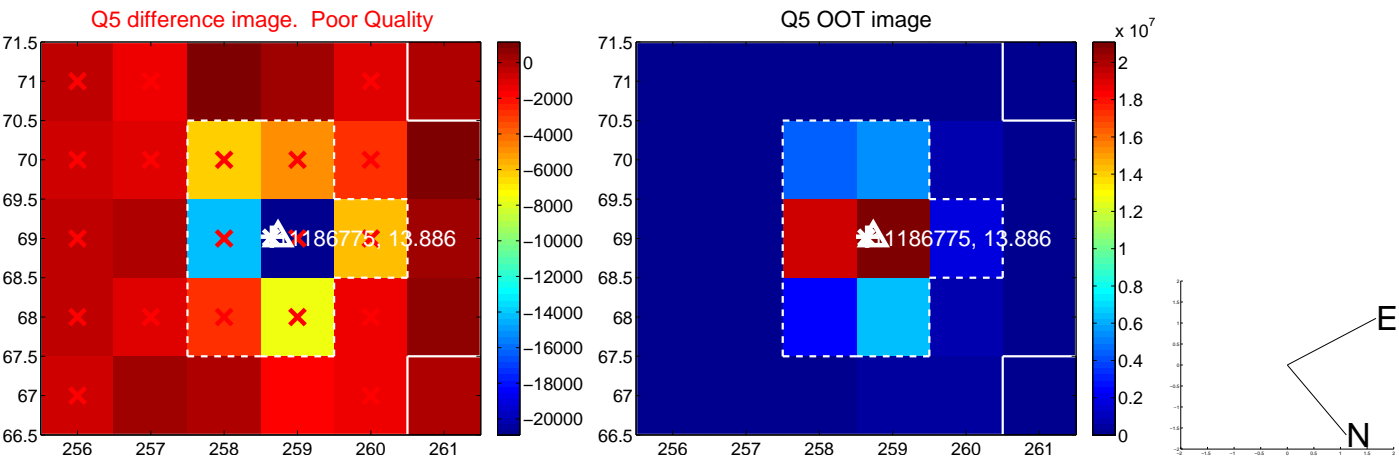


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

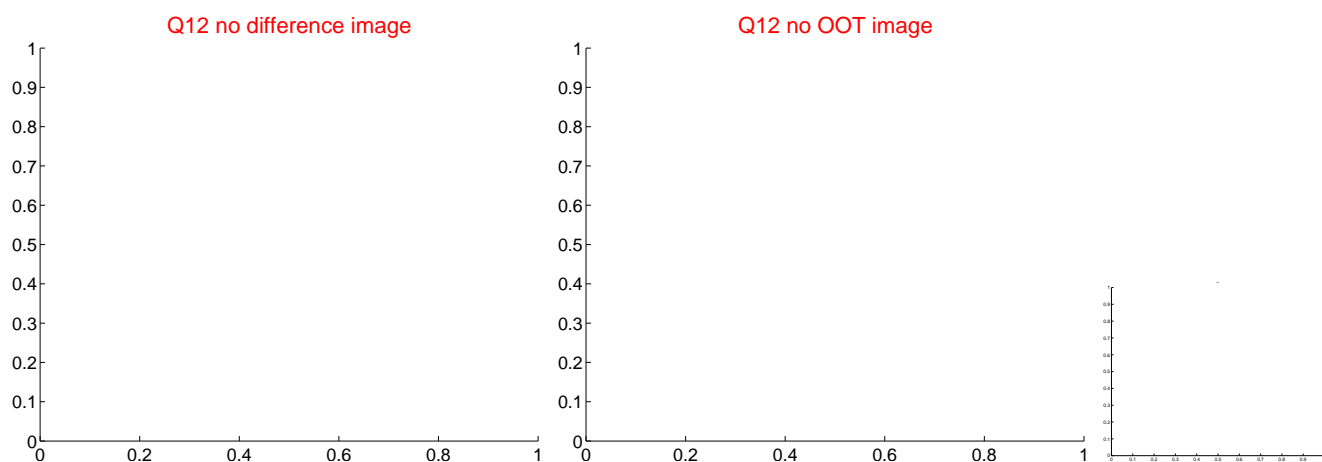
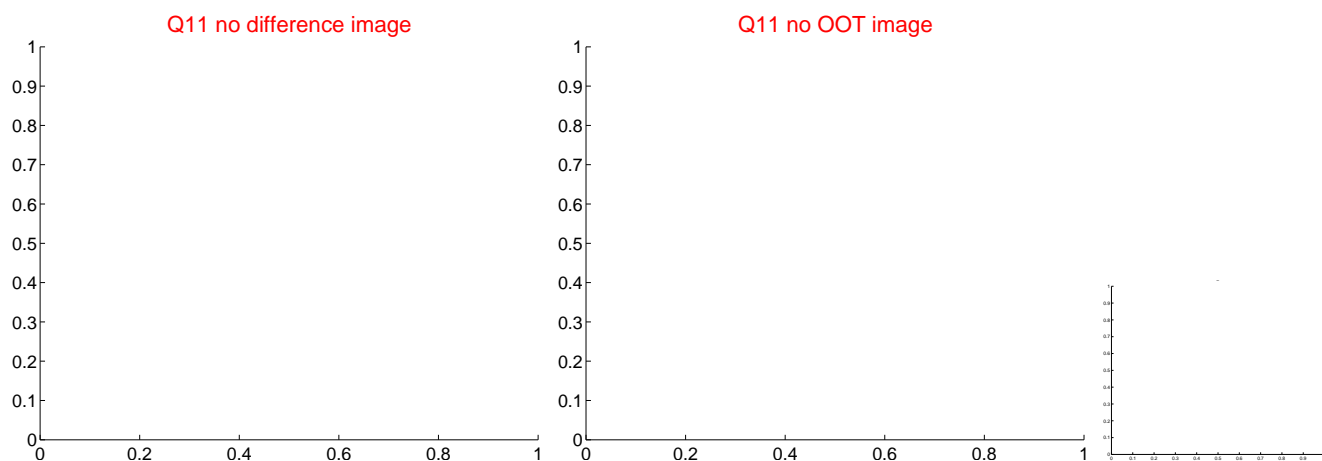
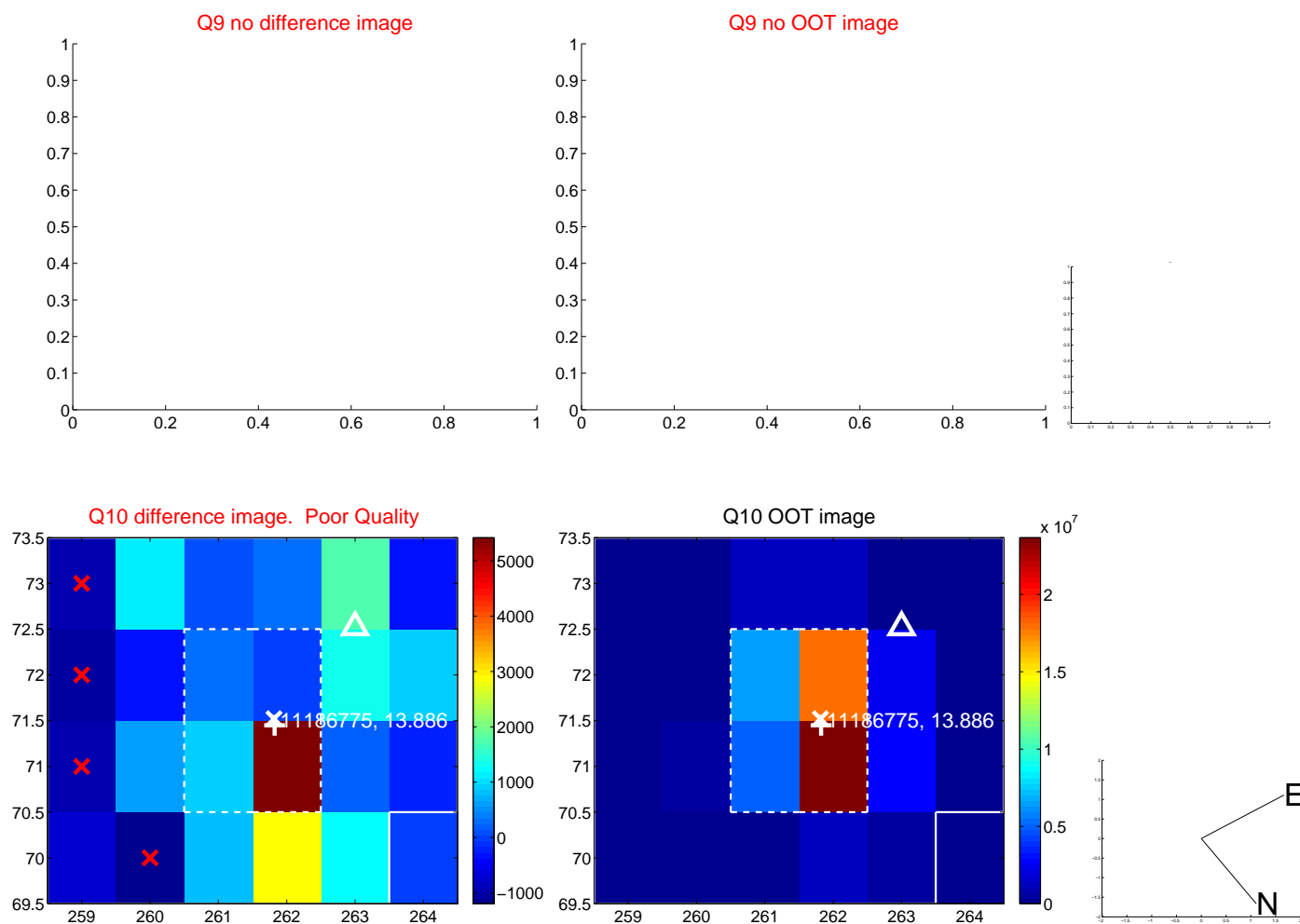
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



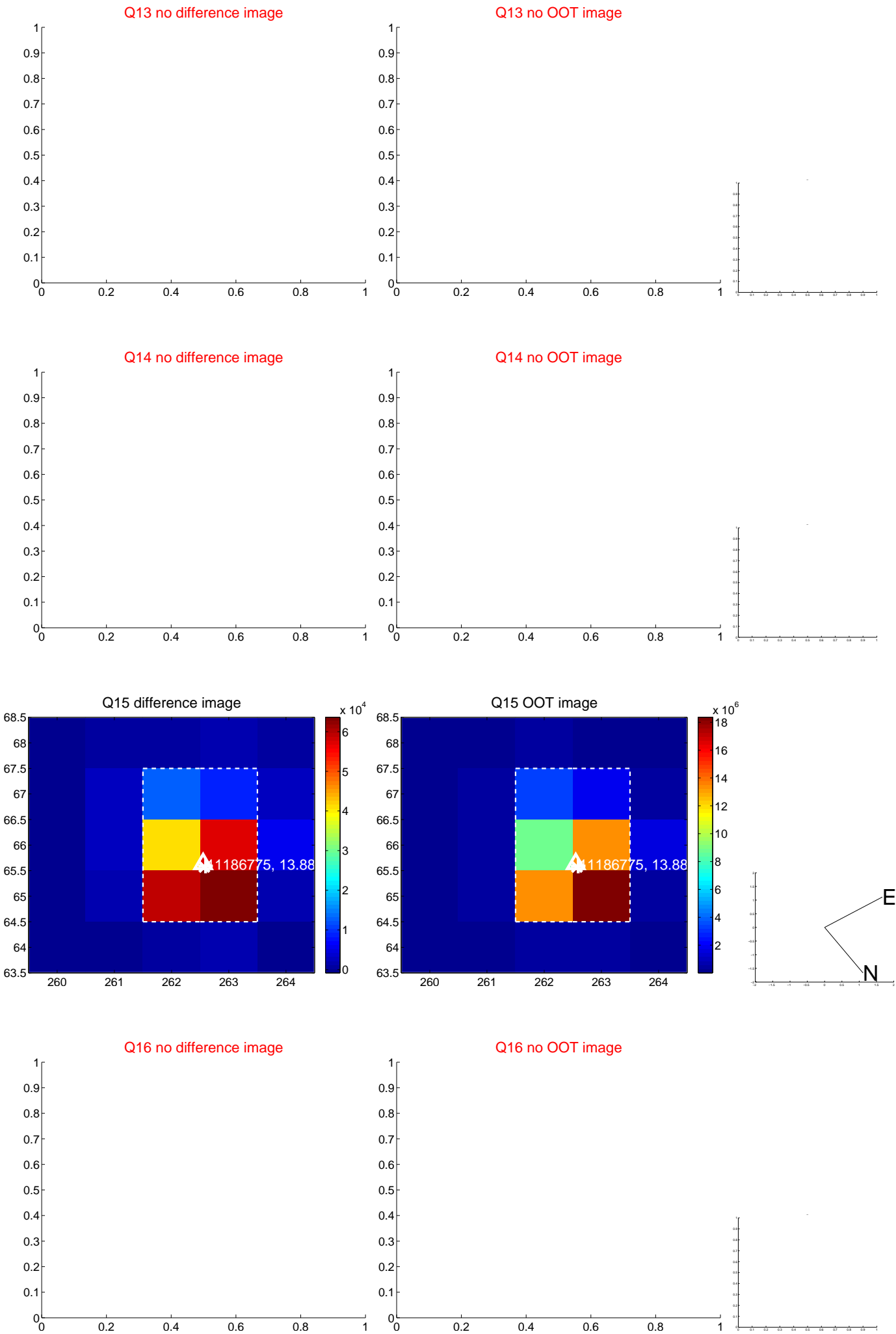
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



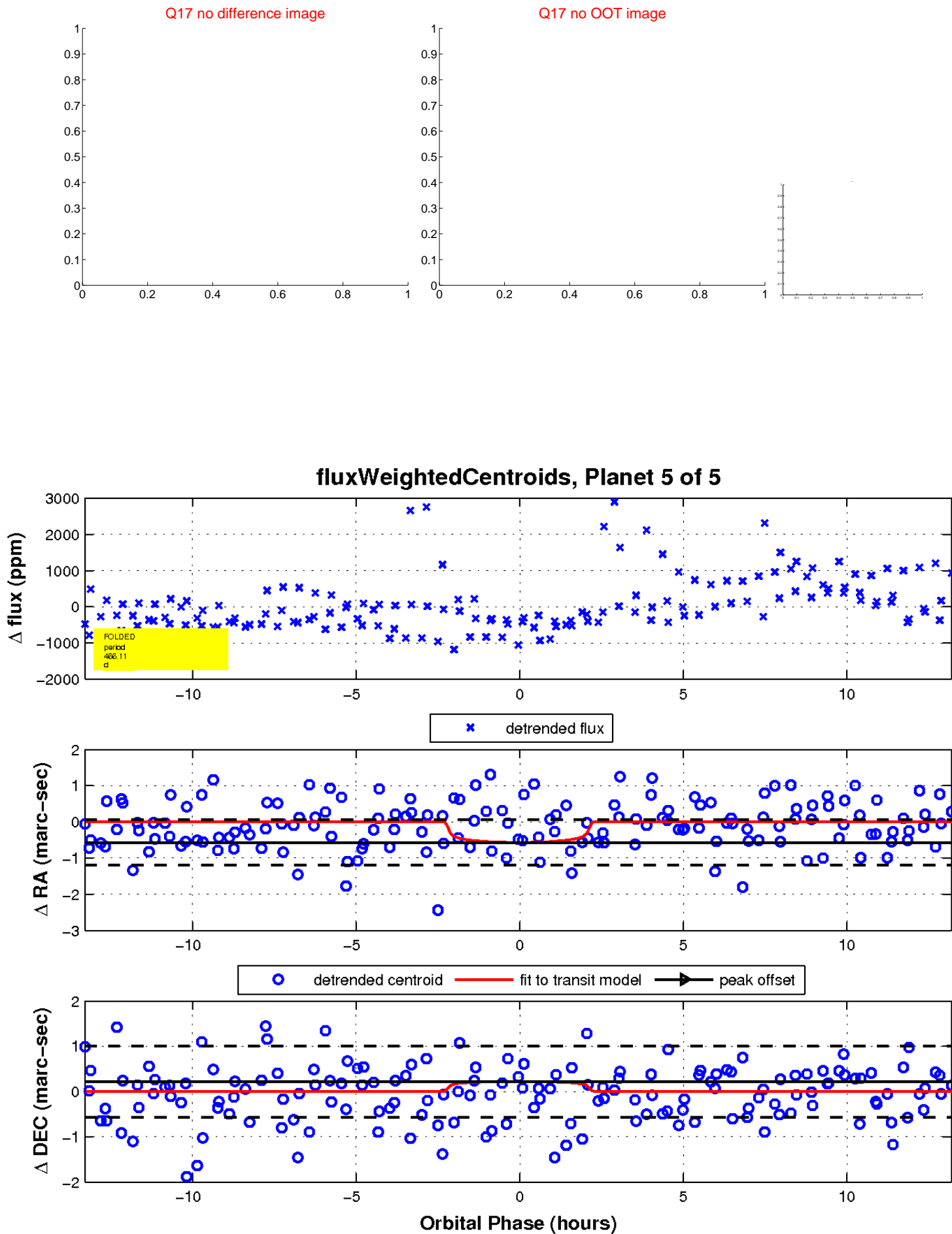
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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



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



UKIRT Image

Declination

