

KIC 006611419

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})
006611419-01	OBS	No	263.221716	304.133118	1969.6	8.228	16.3	7.7	0.67	4588	3.72	0.36
006611419-02	OBS	No	416.564131	515.663760	1829.5	15.773	13.3	6.3	0.67	4588	2.73	0.20
006611419-03	OBS	No	289.108928	320.659724	1971.9	9.268	12.0	7.2	0.67	4588	3.04	0.32
006611419-04	OBS	No	501.197979	527.211100	2676.7	10.352	11.8	9.4	0.67	4588	3.34	0.15
006611419-05	OBS	No	244.929148	163.715575	1413.4	6.881	9.1	6.9	0.67	4588	2.59	0.40

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006611419-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006611419-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006611419-03	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—CENT_FEW_DIFFS—HALO_GHOST
006611419-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—CENT_KIC_POS
006611419-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

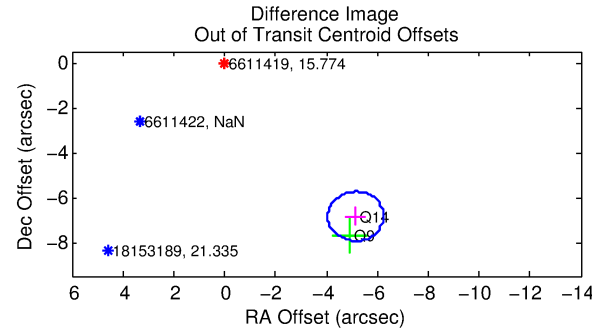
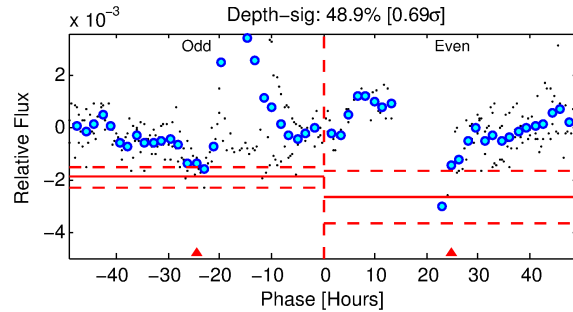
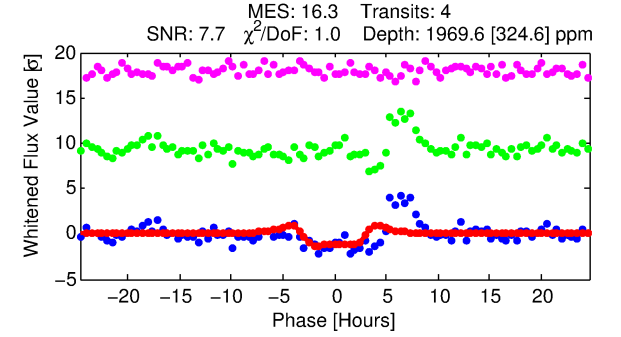
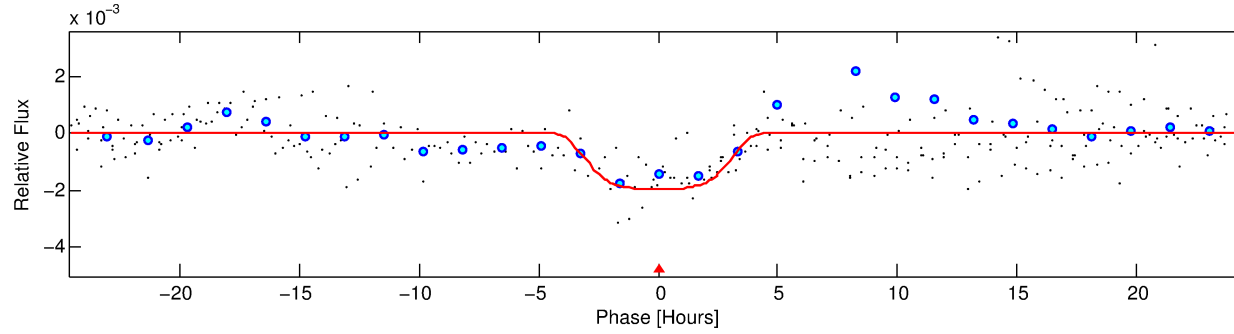
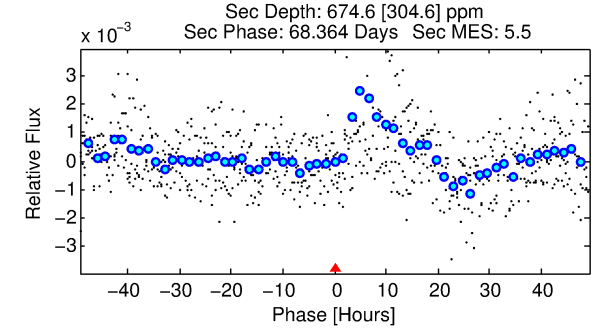
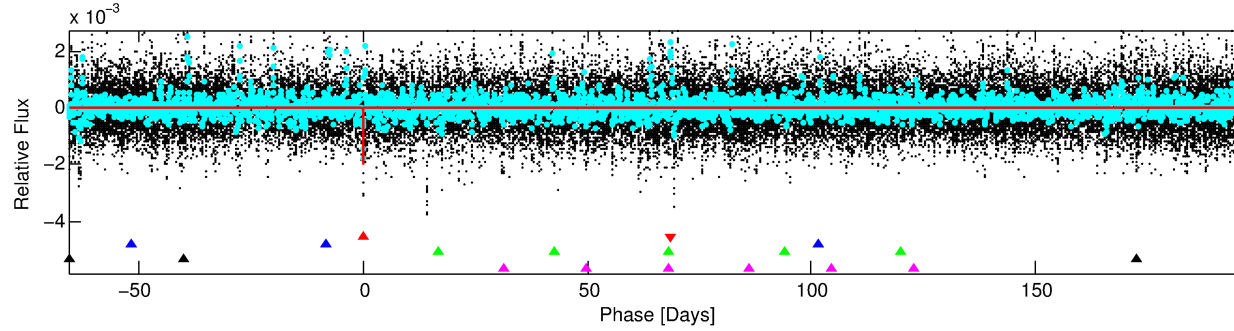
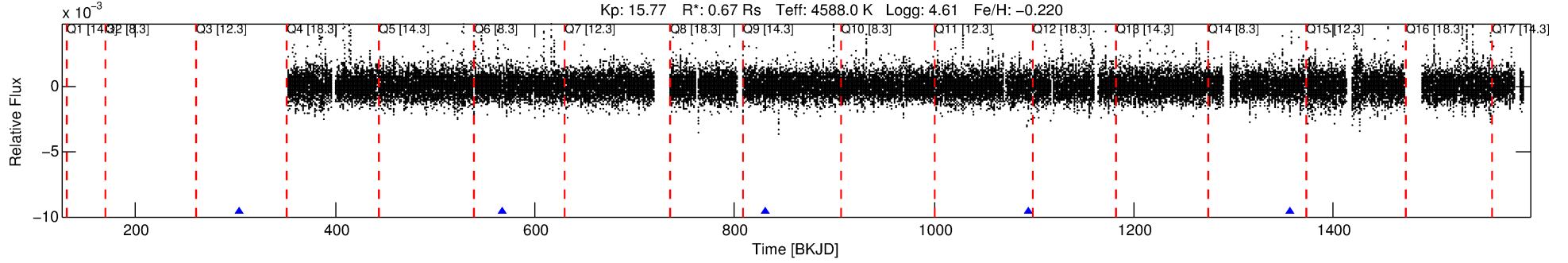
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006611419-01

No Significant Match Found

DV One-Page Summary

KIC: 6611419 Candidate: 1 of 5 Period: 263.222 d



DV Fit Results:

Period = 263.22172 [0.00775] d
Epoch = 304.1331 [0.0226] BKJD
Rp/R* = 0.0512 [0.0056]
a/R* = 126.61 [25.15]
b = 0.91 [0.04]
Seff = 0.36 [0.06]
Teq = 198 [9] K
Rp = 3.72 [0.53] Re
a = 0.6986 [0.0498] AU
Ag = 13088.17 [6704.58] [1.95σ]
Teffp = 3268 [427] K [7.19σ]

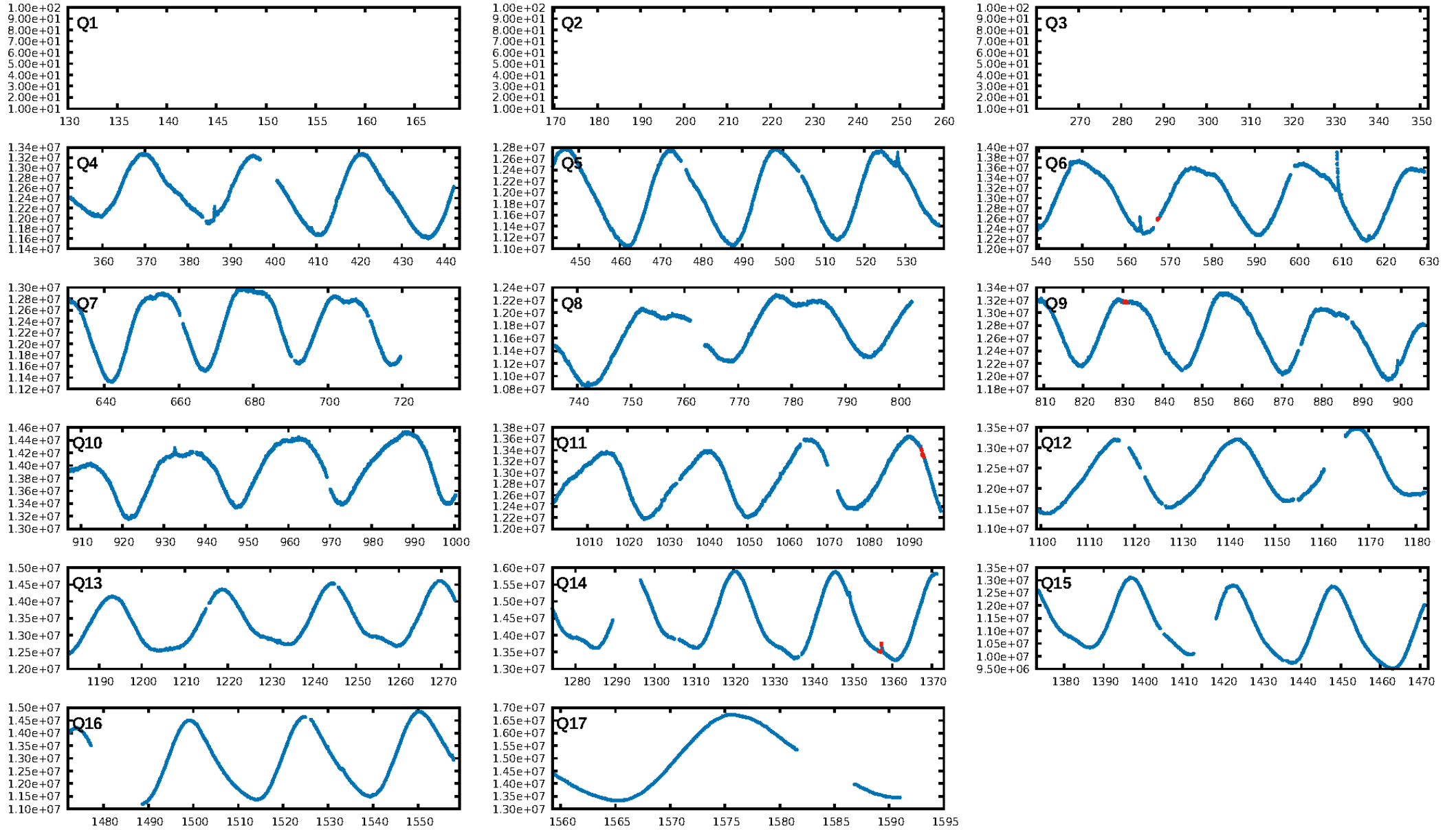
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [40.93σ]
LongPeriod-sig: 100.0% [50.13σ]
ModelChiSquare2-sig: 23.4%
ModelChiSquareGof-sig: 99.7%
Bootstrap-pfa: 8.74e-27
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.1831
Centroid-sig: 16.2%
Centroid-so: 3.020 arcsec [2.53σ]
OotOffset-rm: 8.563 arcsec [23.42σ]
KicOffset-rm: 0.265 arcsec [0.77σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

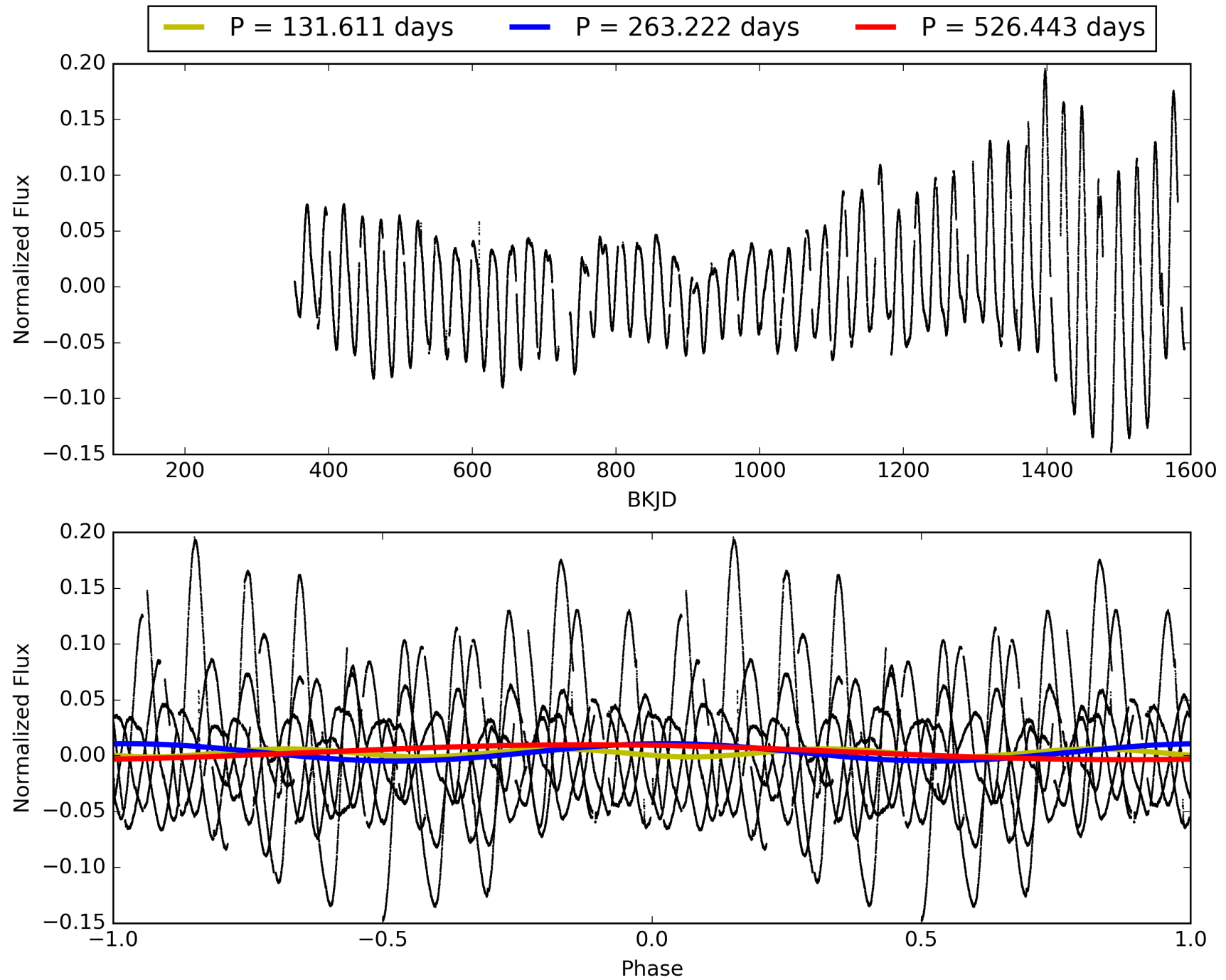
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006611419-01, PDC Light Curves

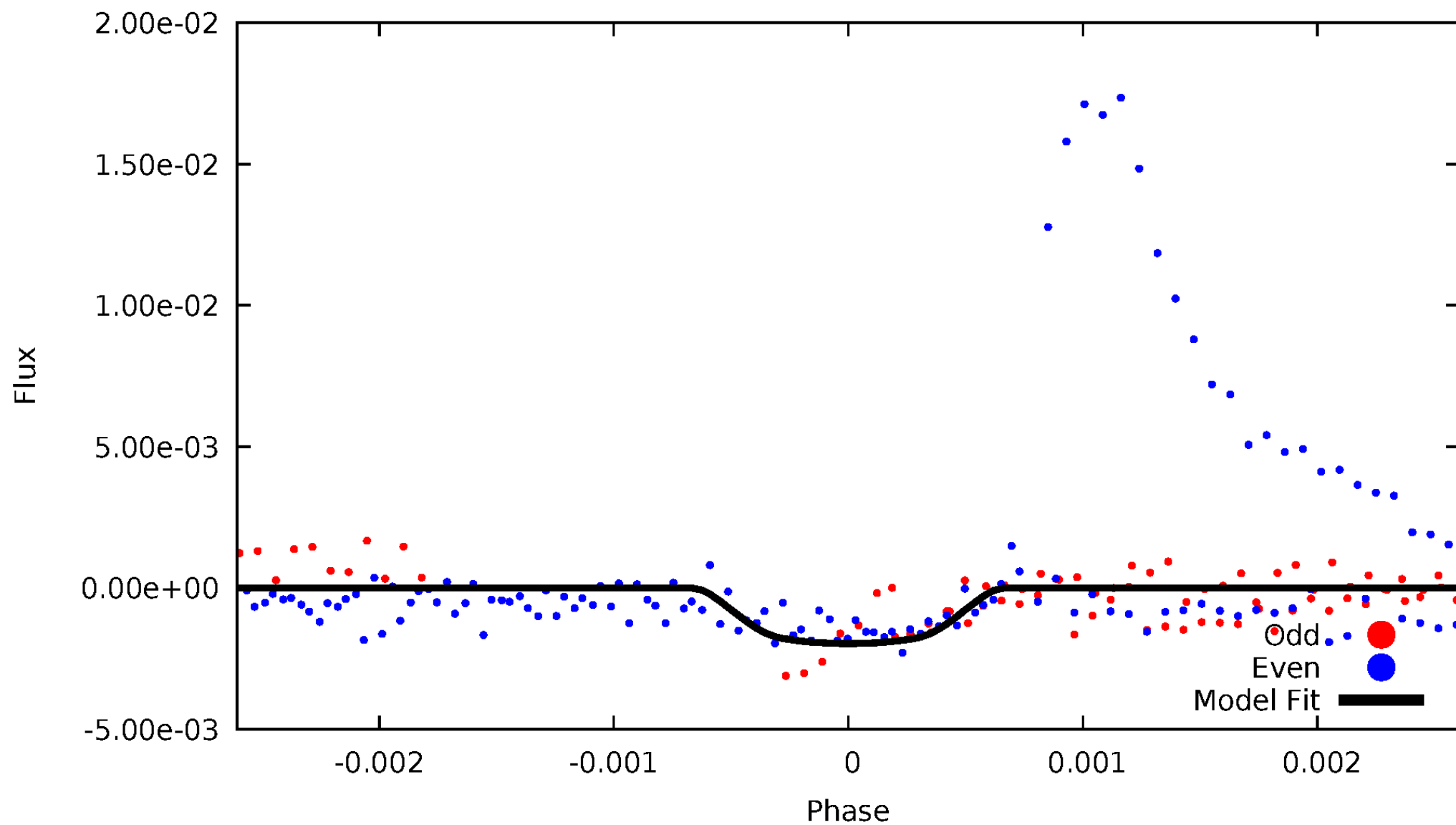


TCE 006611419-01



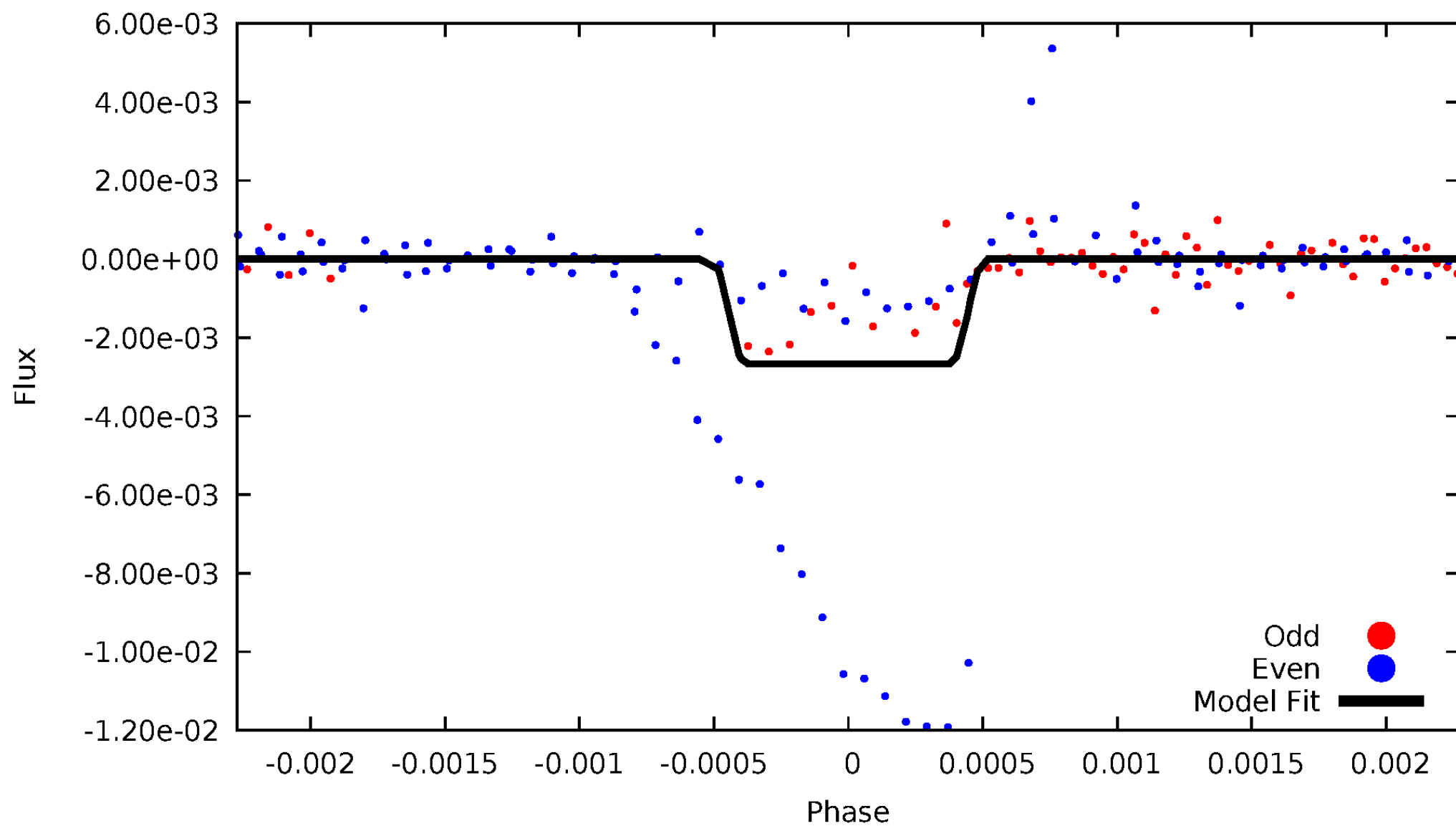
DV Odd/Even

TCE 006611419-01



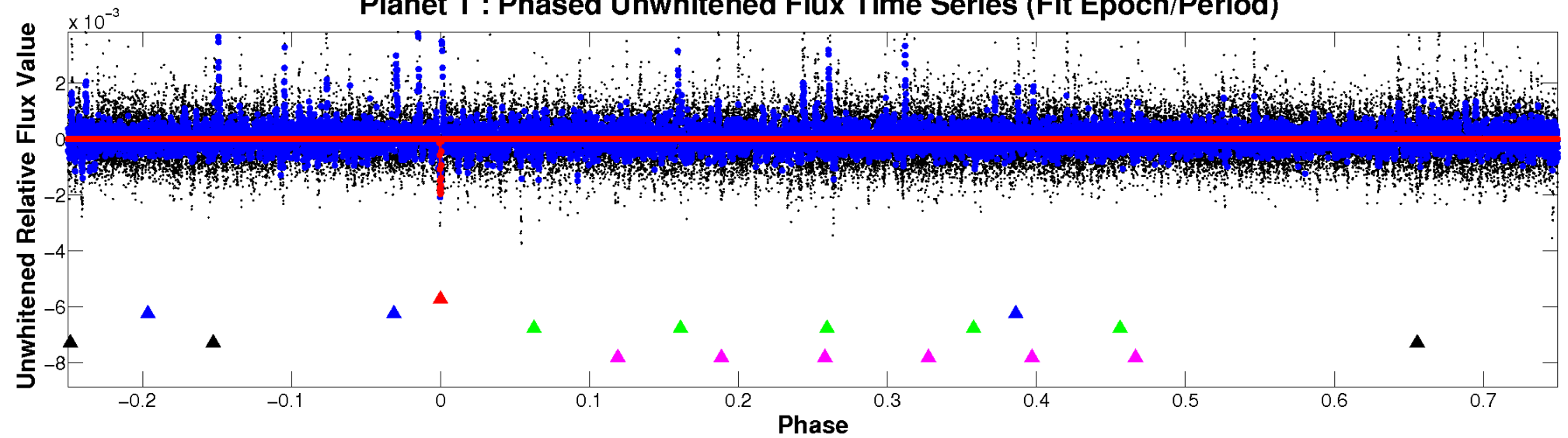
ALT Odd/Even

TCE 006611419-01

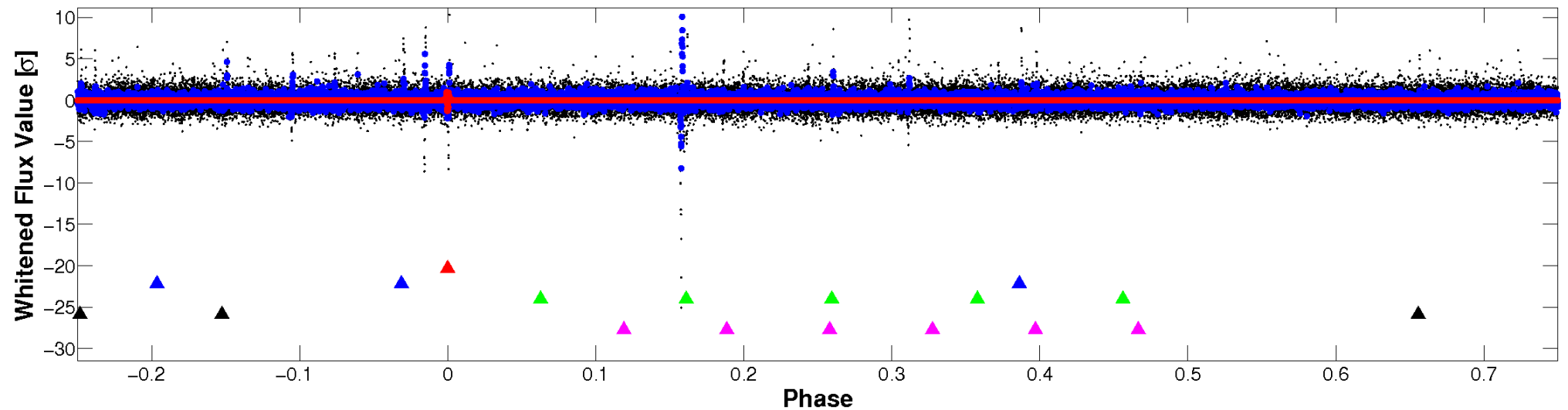


Non-Whitened Vs. Whitened Light Curve

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

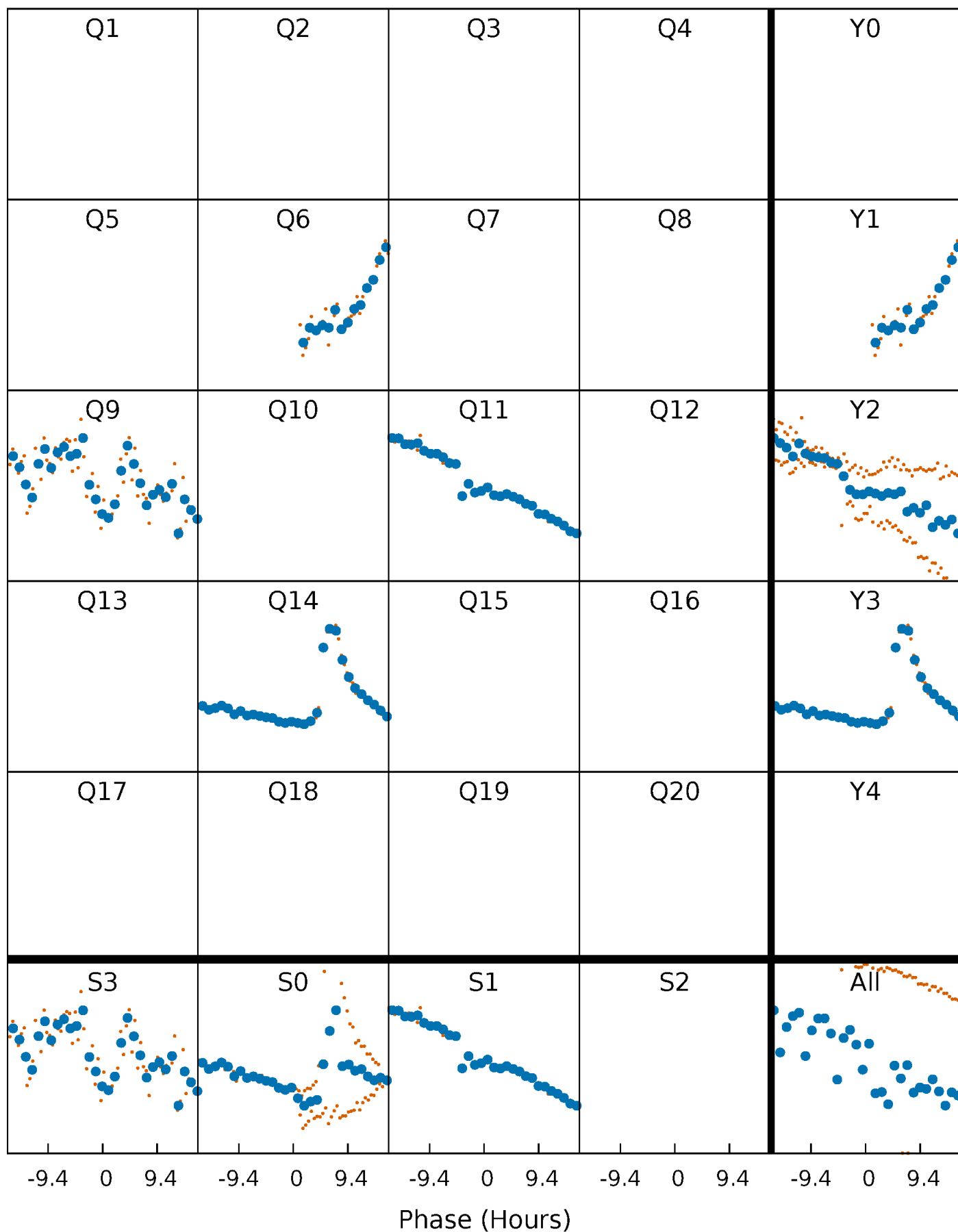


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



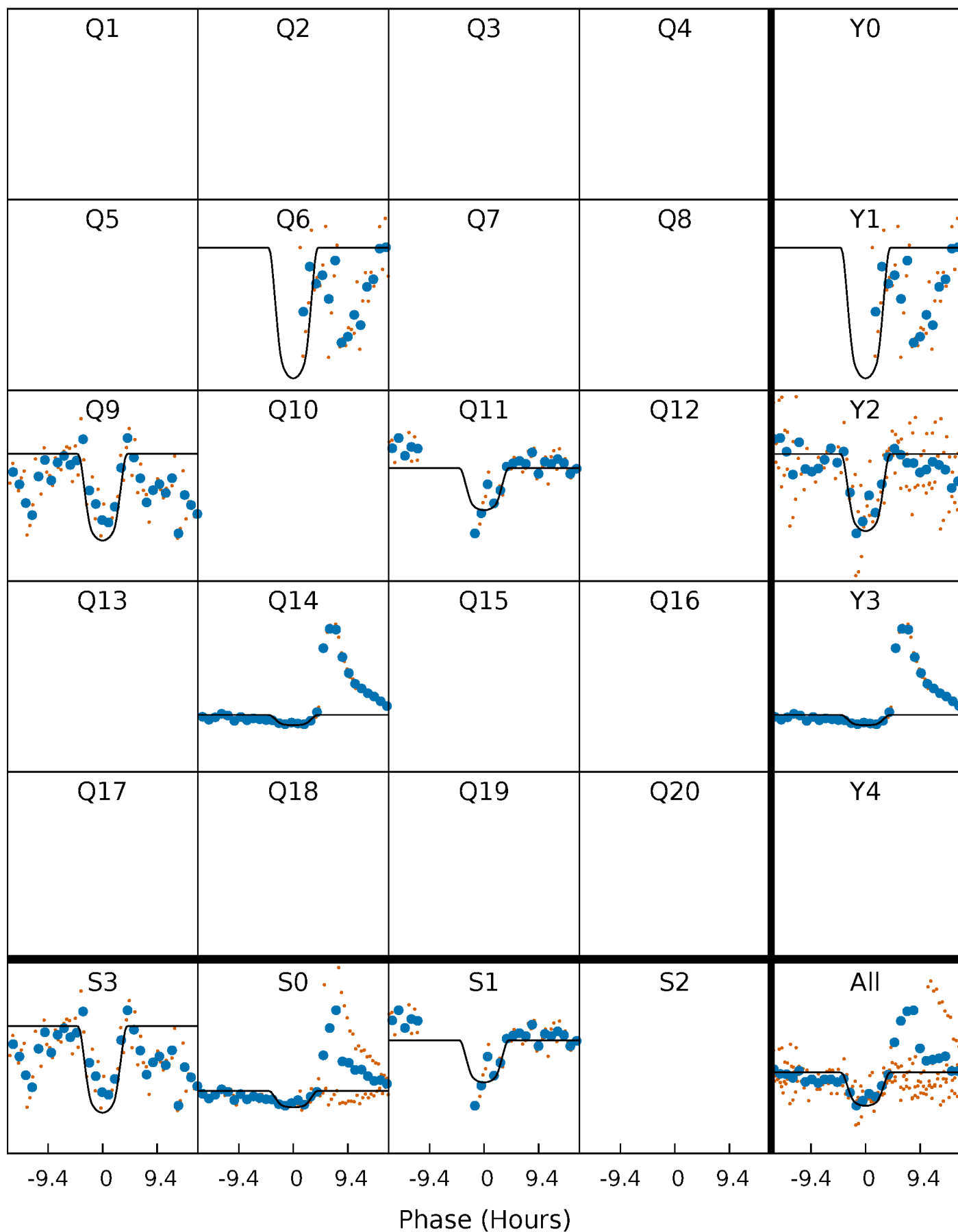
PDC Quarter-Phased Transit Curves

TCE 006611419-01 P=263.221716 Days $T_0=304.133119$ (BKJD)



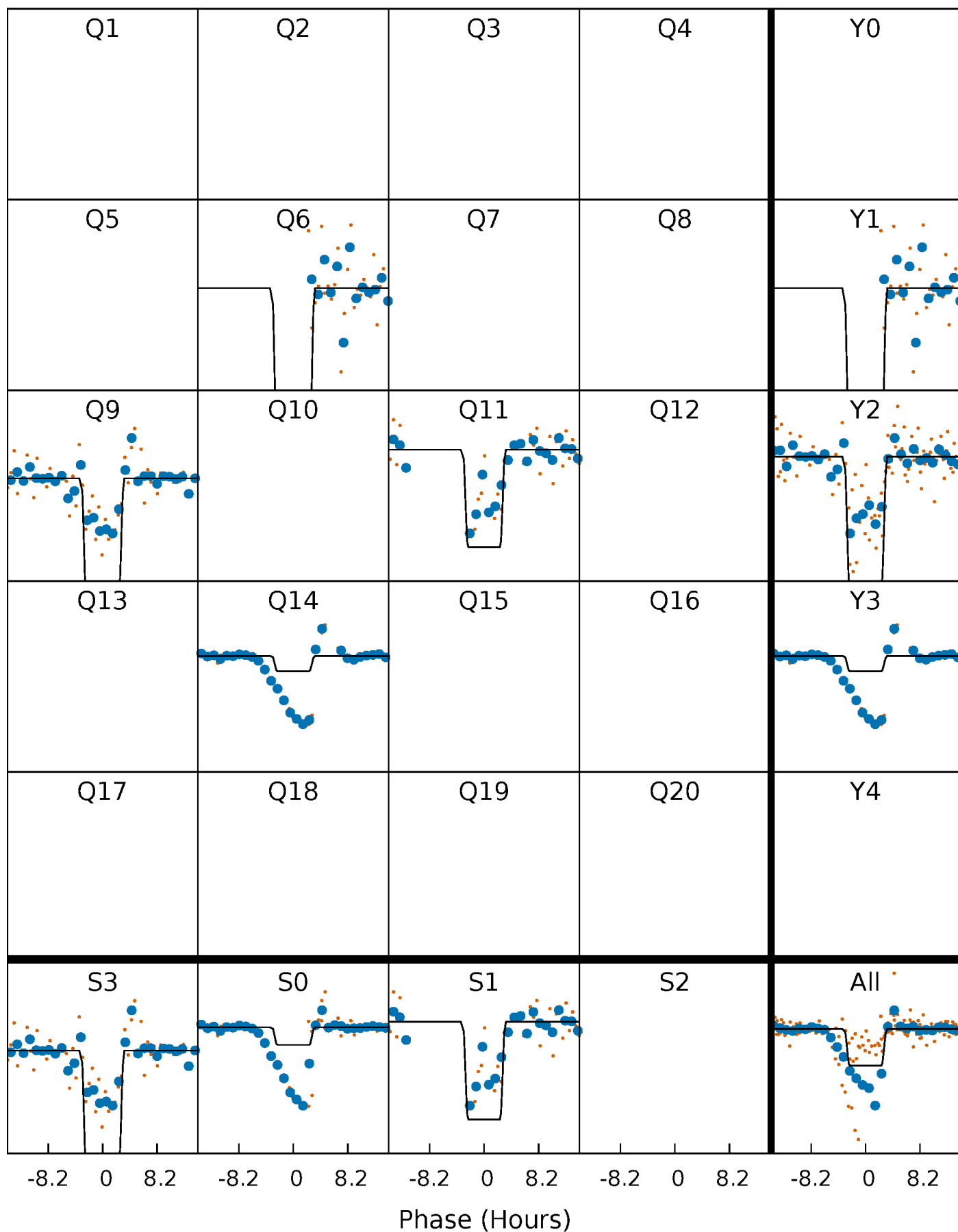
DV Quarter-Phased Transit Curves

TCE 006611419-01 P=263.221716 Days $T_0=304.133119$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

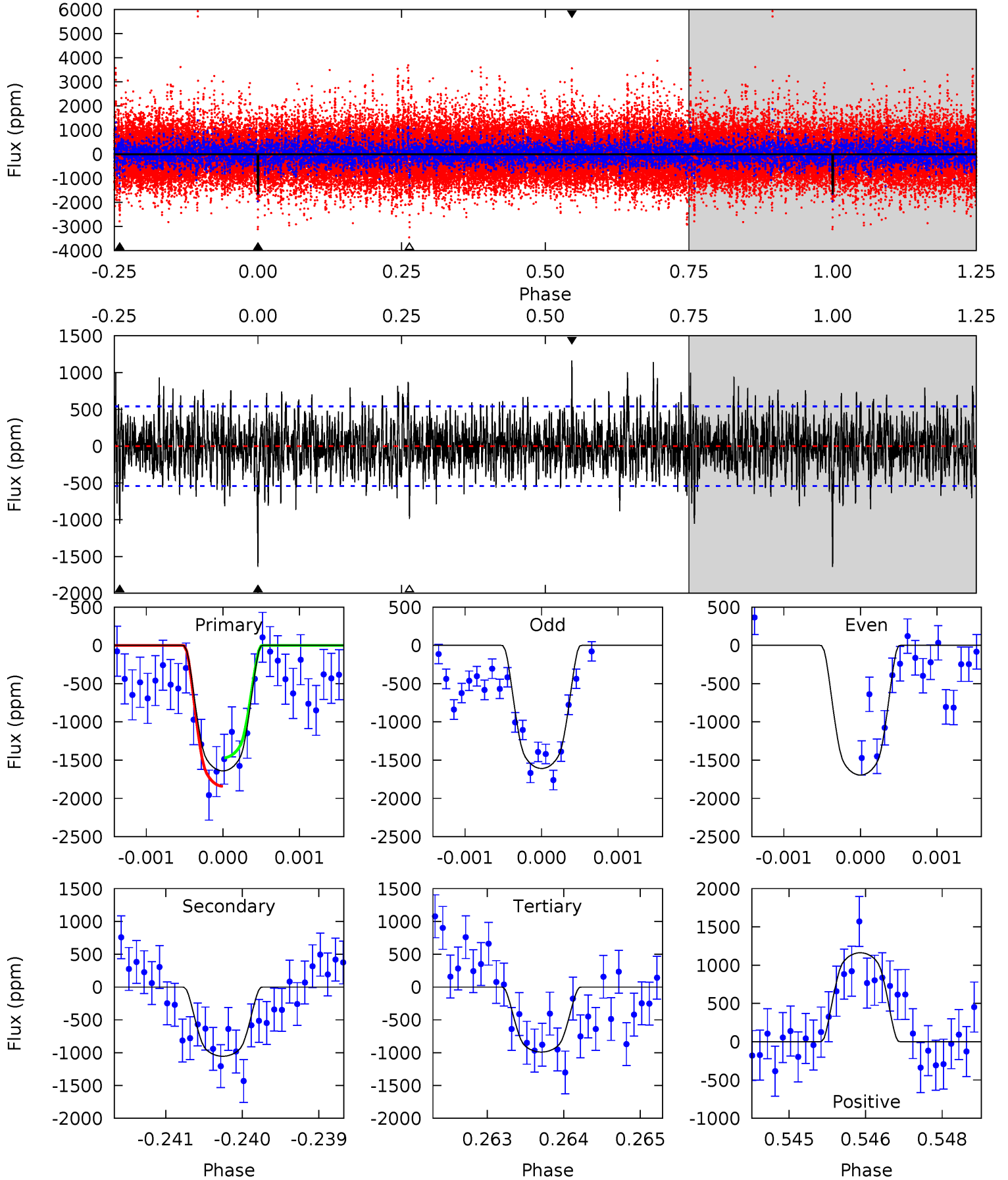
TCE 006611419-01 P=263.259176 Days $T_0=304.048815$ (BKJD)



DV Model-Shift Uniqueness Test

006611419-01, P = 263.221716 Days, E = 304.133119 Days

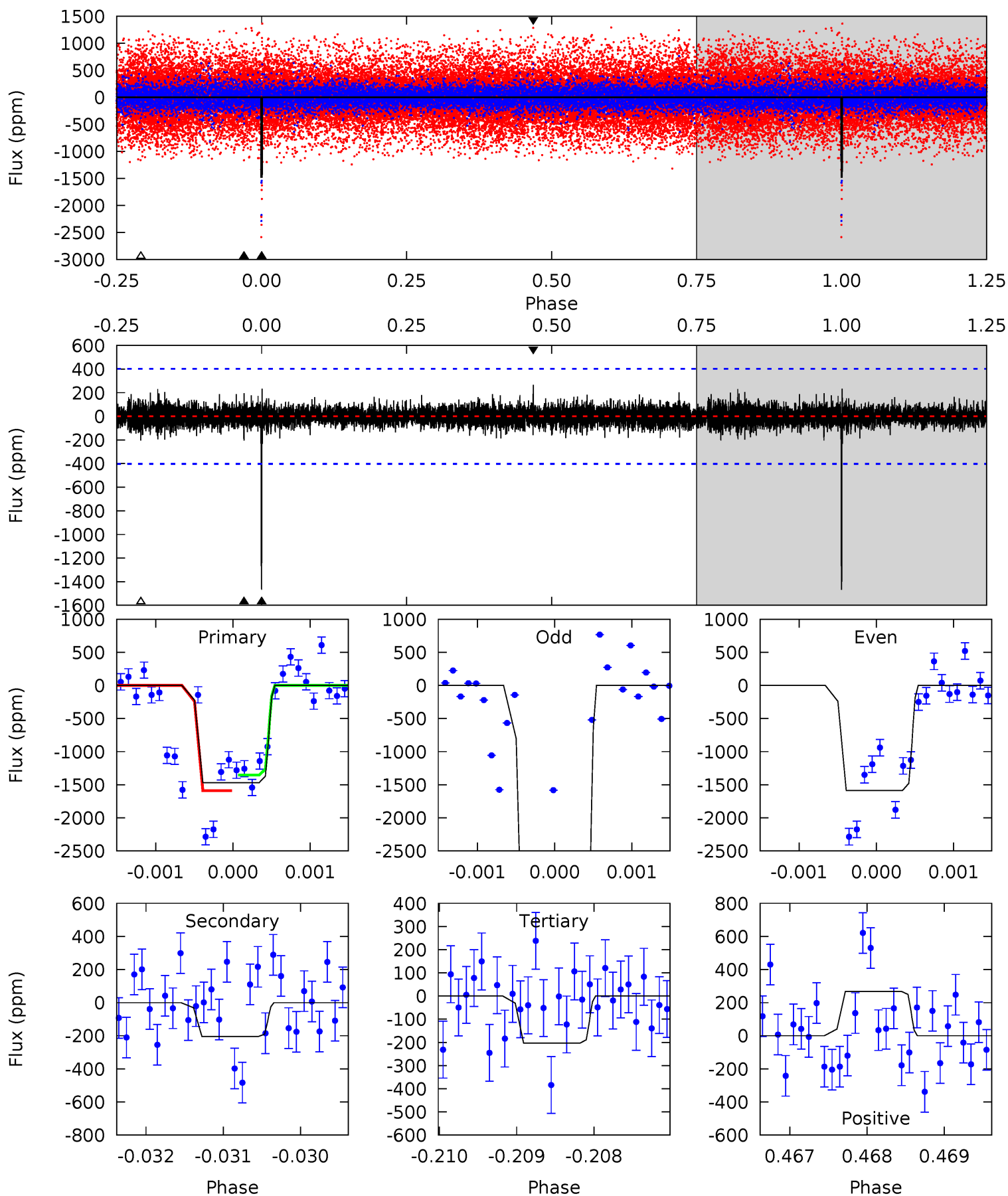
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.4	10.5	9.89	11.6	5.40	3.21	2.68	6.48	4.77	0.64	-1.07	0.35	0.96	0.41	1.81



Alt Model-Shift Uniqueness Test

006611419-01, P = 263.259176 Days, E = 304.048815 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.9	2.78	2.76	3.63	5.46	3.30	0.65	17.2	16.3	0.02	-0.85	31.7	2.32	0.15	1.59



Stellar Parameters For KIC 006611419

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4588^{+165}_{-165}	$4.608^{+0.052}_{-0.028}$	$-0.220^{+0.300}_{-0.300}$	$0.666^{+0.054}_{-0.059}$	$0.656^{+0.075}_{-0.054}$	$3.134^{+0.726}_{-0.407}$
	+4%/-4%	+1%/-1%	+136%/-136%	+8%/-9%	+11%/-8%	+23%/-13%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006611419-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1055 ± 100	$3.69^{+0.48}_{-0.40}$	274^{+11}_{-11}	3878^{+202}_{-194}	20974^{+6091}_{-4647}
Alt.	-205 ± 74	$3.70^{+0.47}_{-0.44}$	275^{+11}_{-12}	2995^{+195}_{-195}	4046^{+1710}_{-1501}

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 $A_{obs} \gg 1.0$

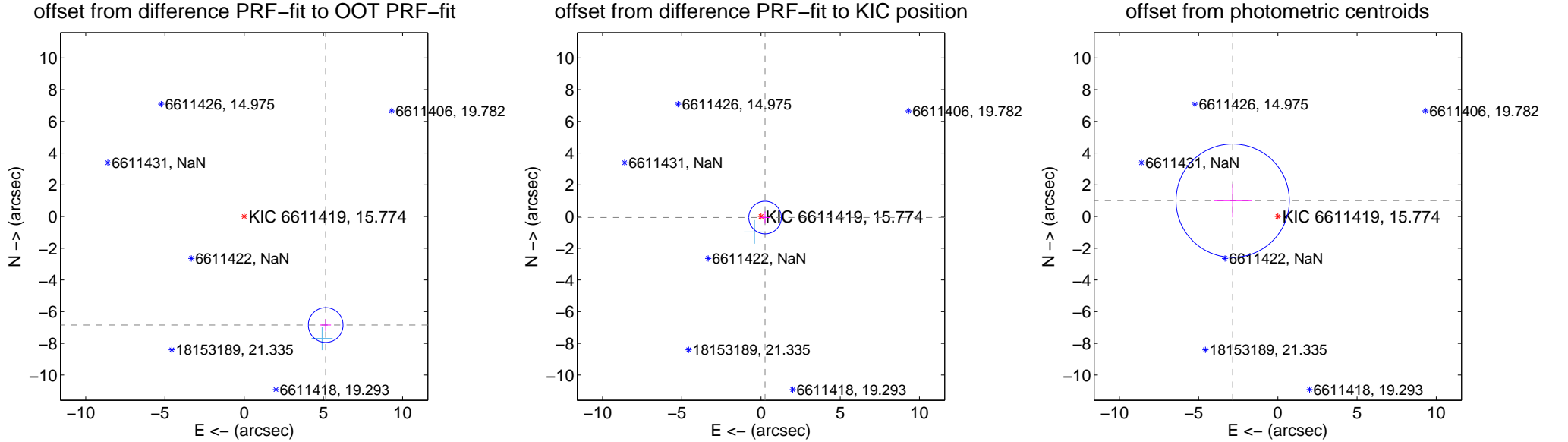
DV Centroid Data

Supplemental centroid analysis for 006611419-01. Kepler magnitude: 15.77. Transit SNR 7.67

There are 2 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 8.36 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.563 ± 0.366	23.42	-5.145 ± 0.341	-6.845 ± 0.379
PRF-fit source offset from KIC position	0.265 ± 0.343	0.77	-0.257 ± 0.341	-0.064 ± 0.379
photometric centroid source offset	3.02 ± 1.19	2.53	2.85 ± 1.21	1.00 ± 1.05

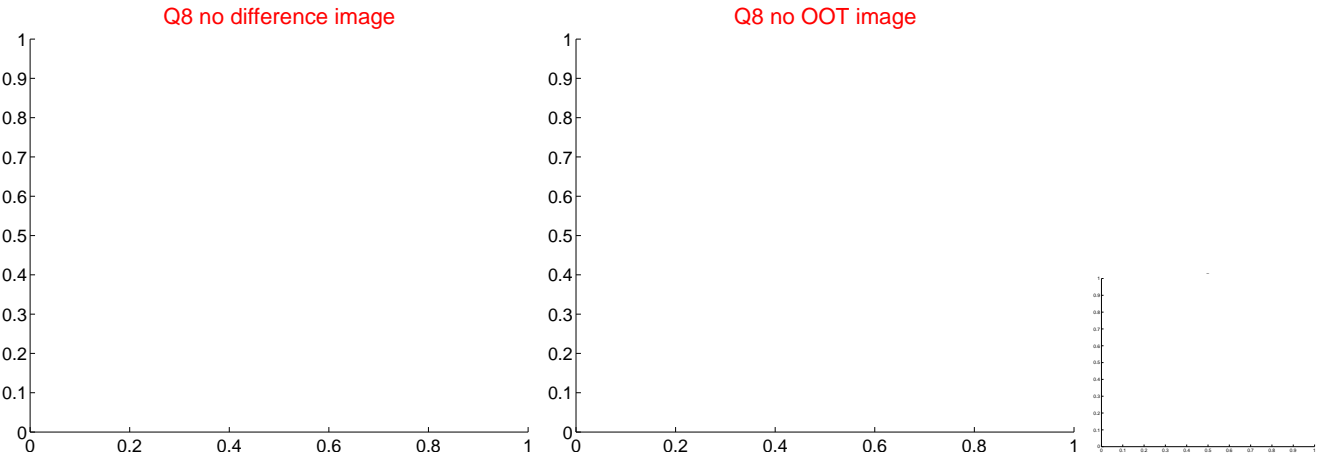
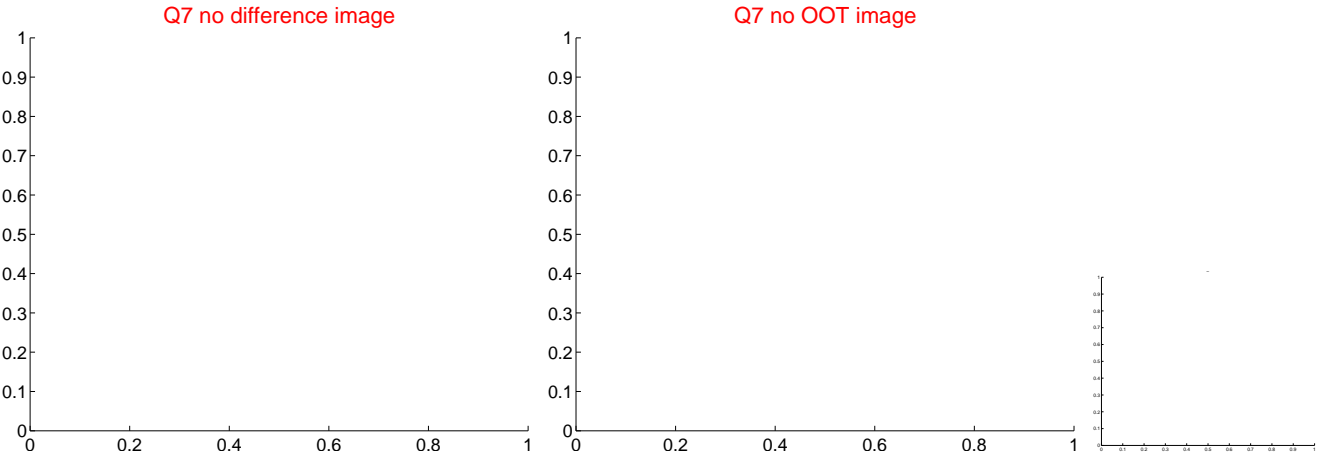
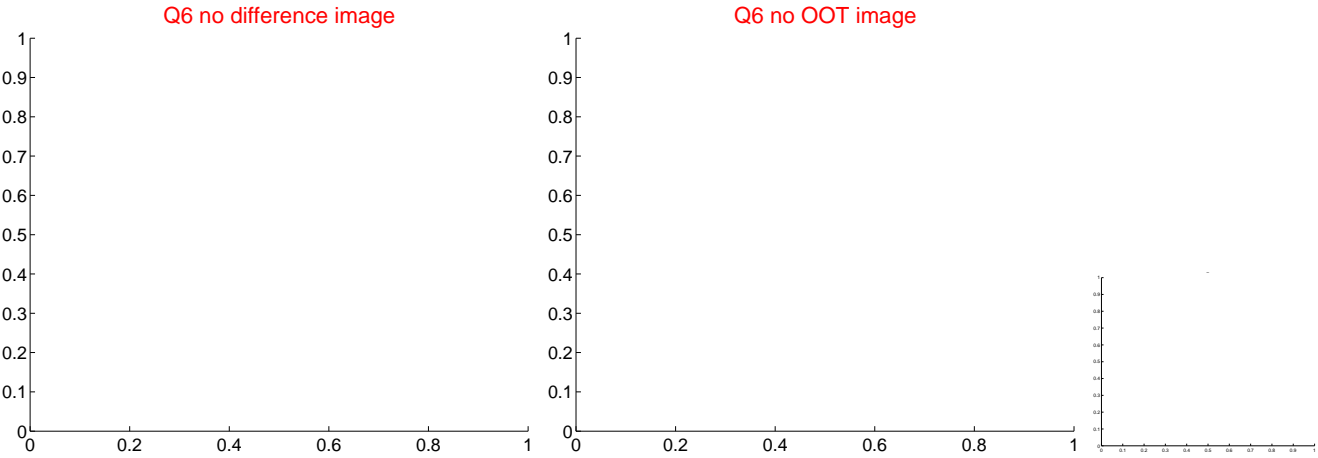
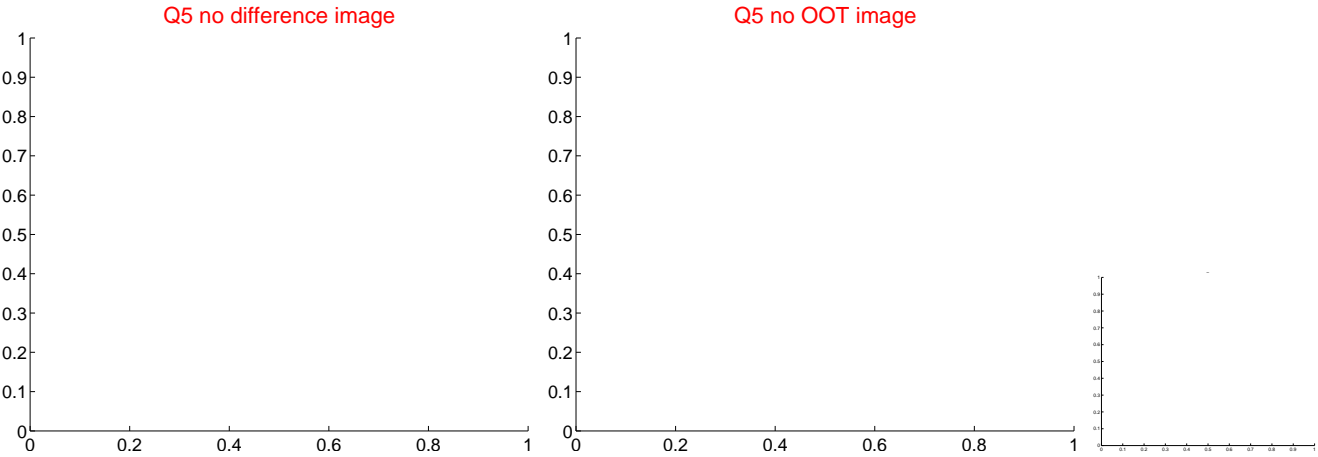


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

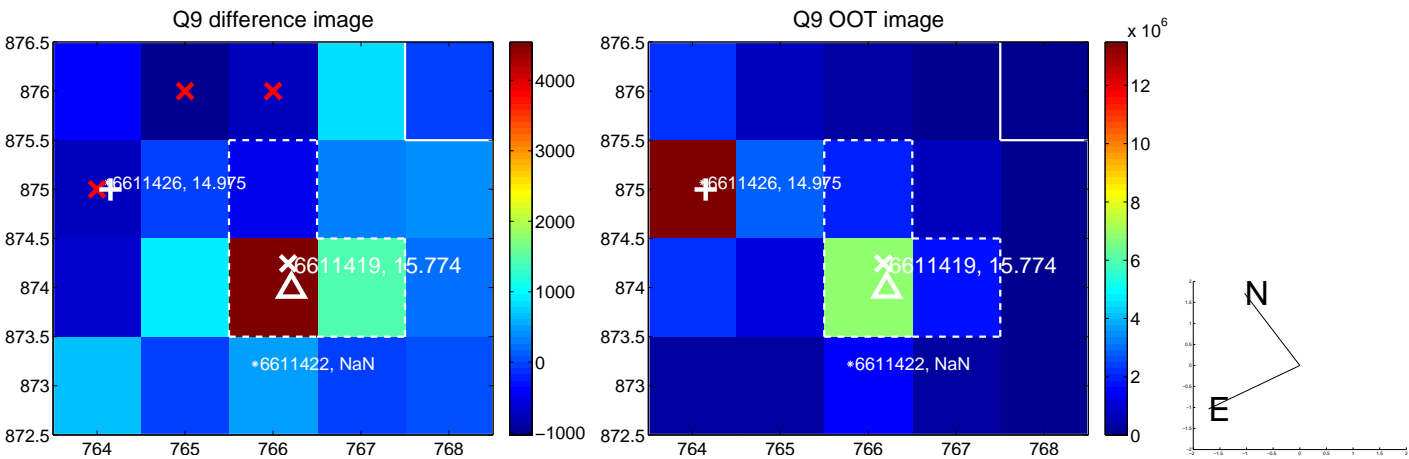
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



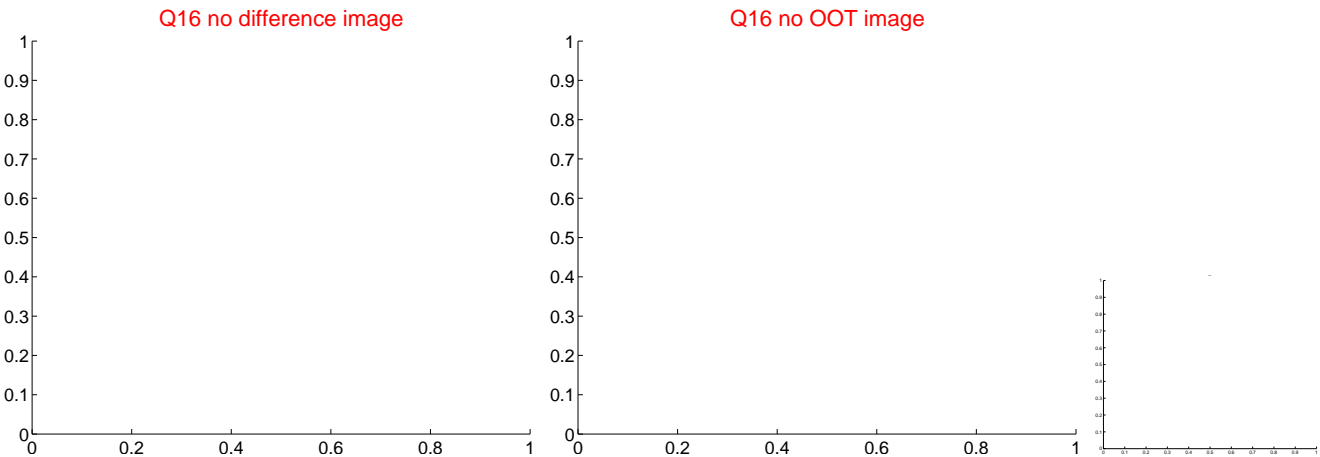
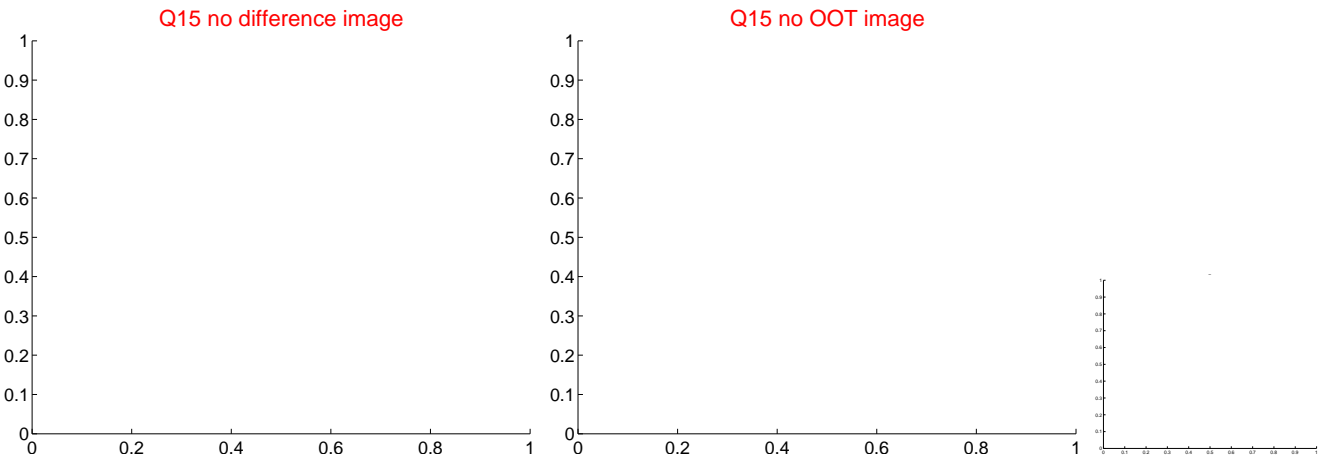
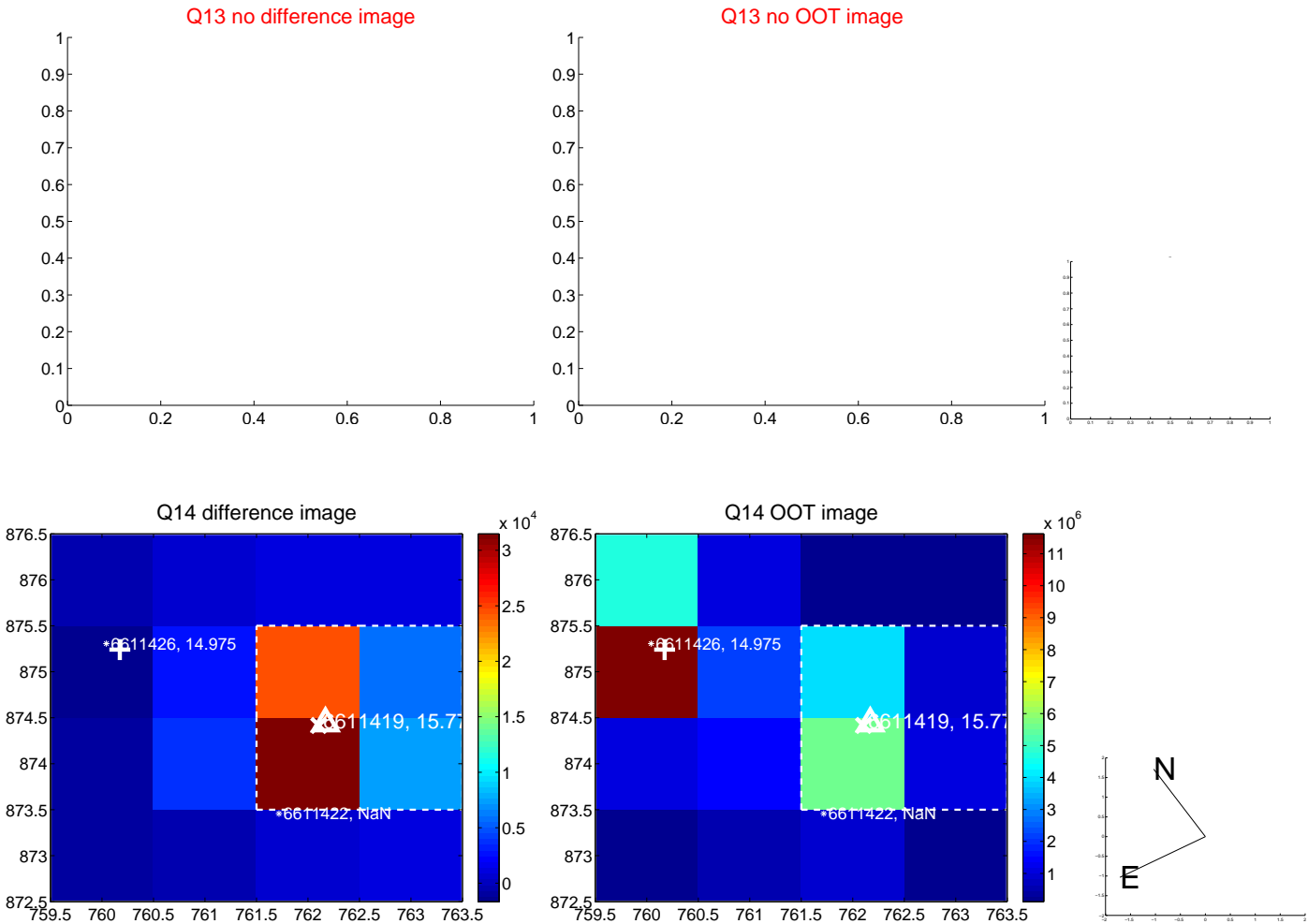
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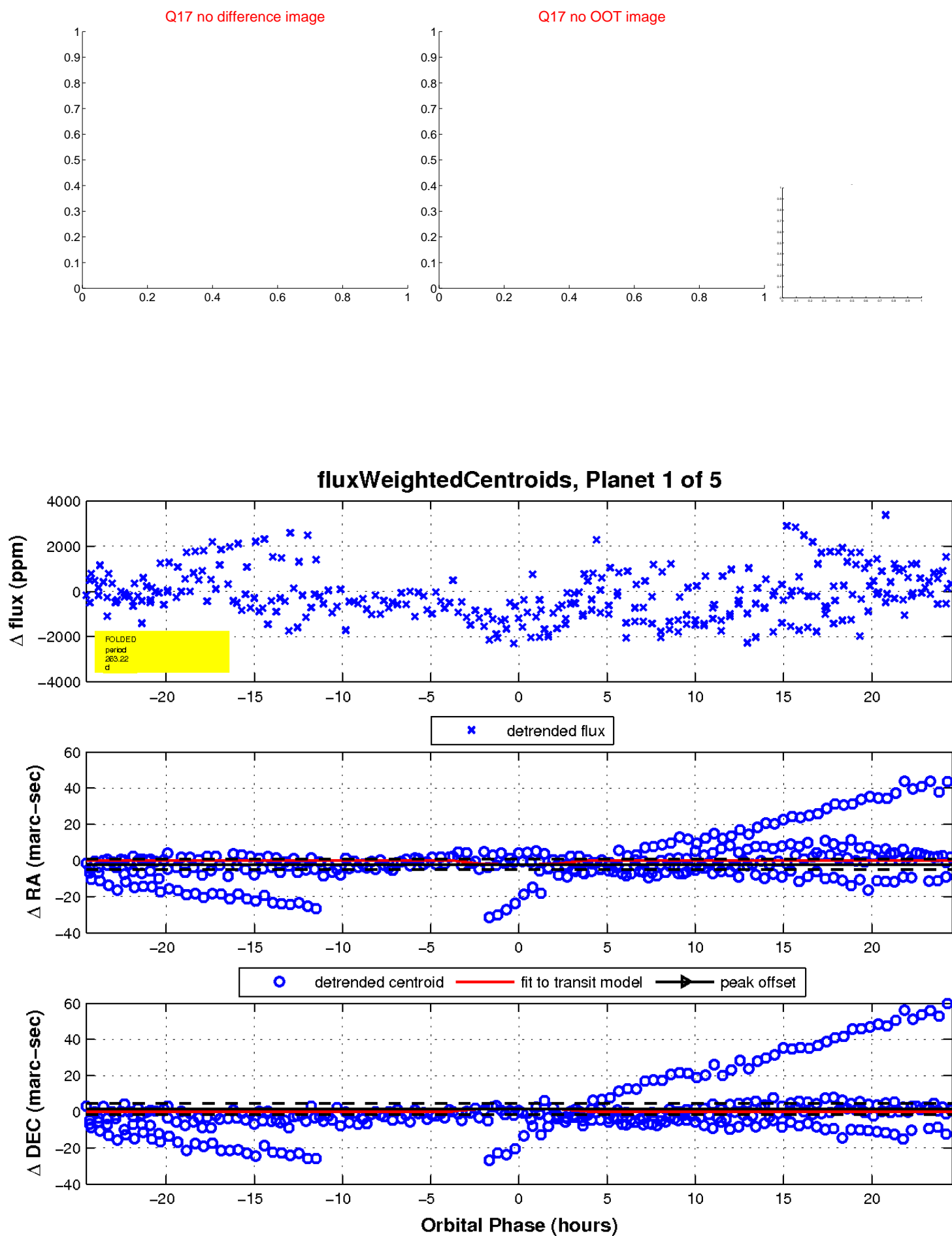
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



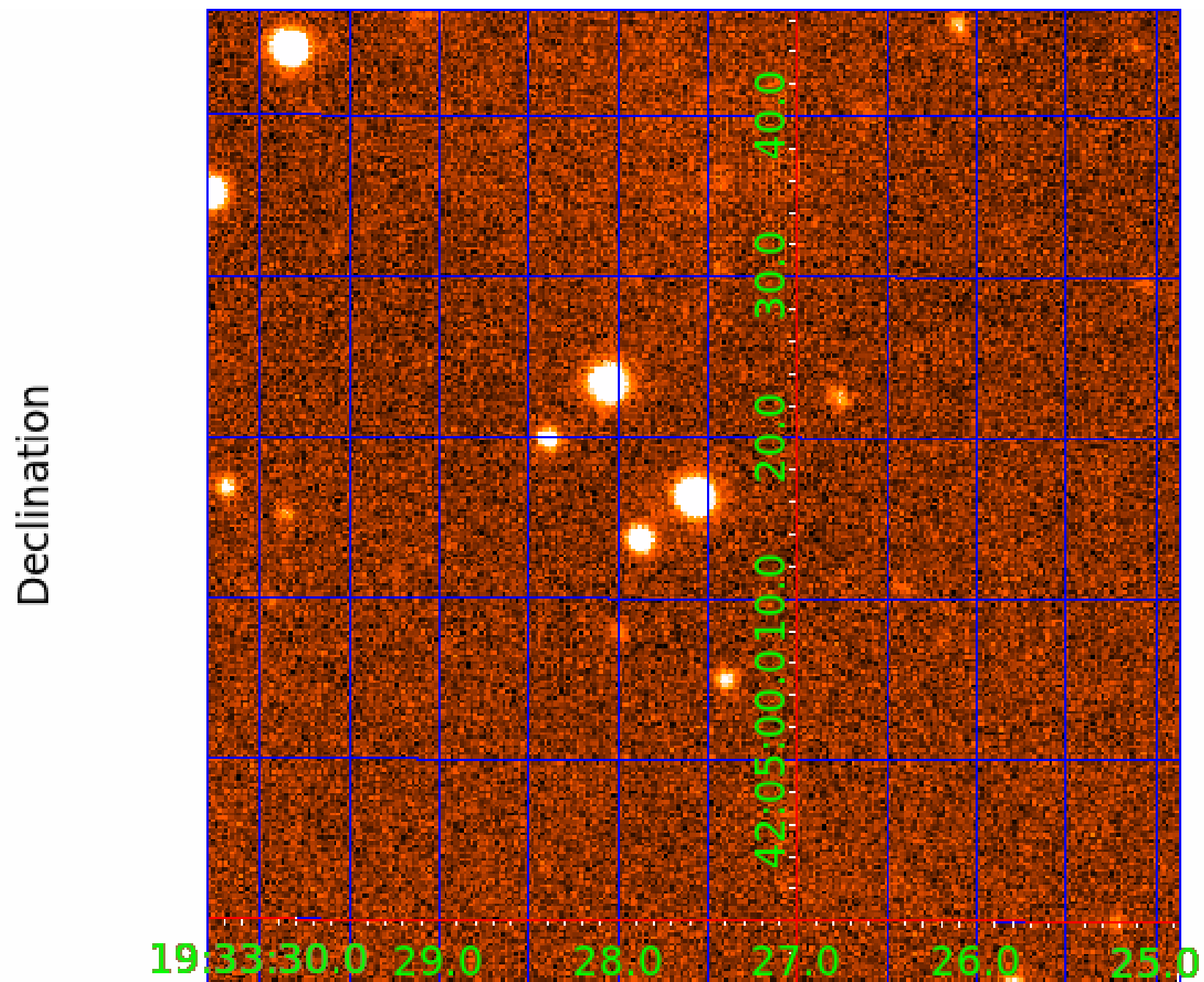
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006611419

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})
006611419-01	OBS	No	263.221716	304.133118	1969.6	8.228	16.3	7.7	0.67	4588	3.72	0.36
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006611419-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006611419-03	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—CENT_FEW_DIFFS—HALO_GHOST
006611419-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—CENT_KIC_POS
006611419-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

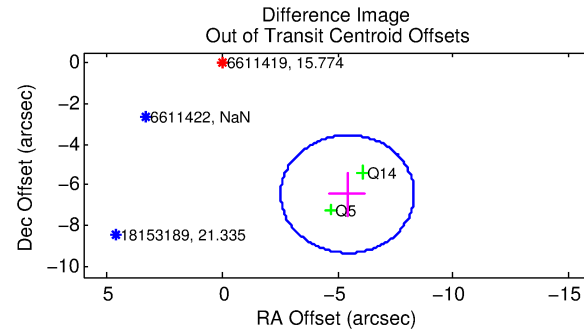
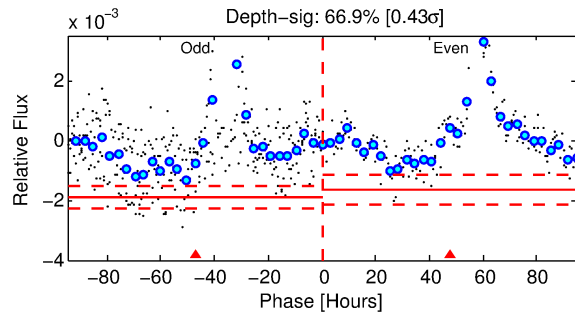
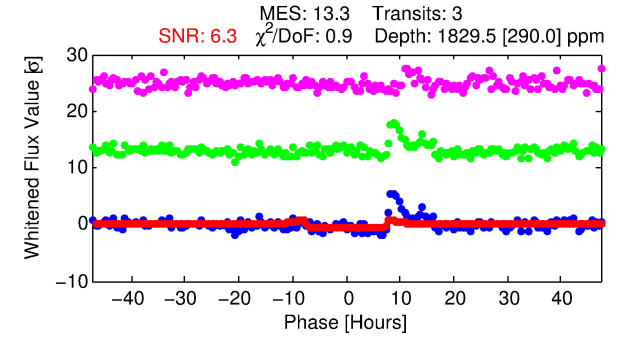
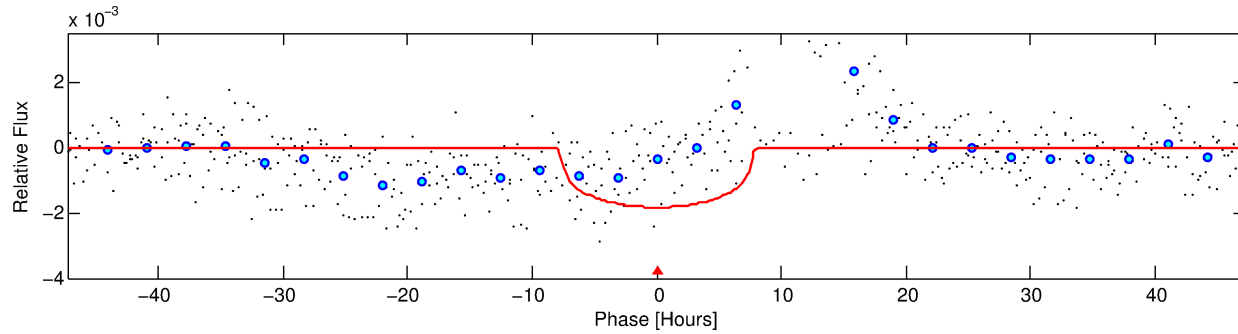
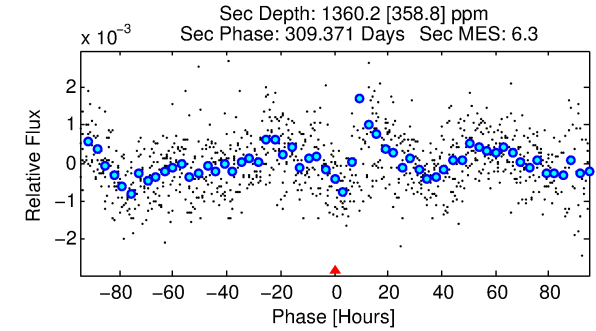
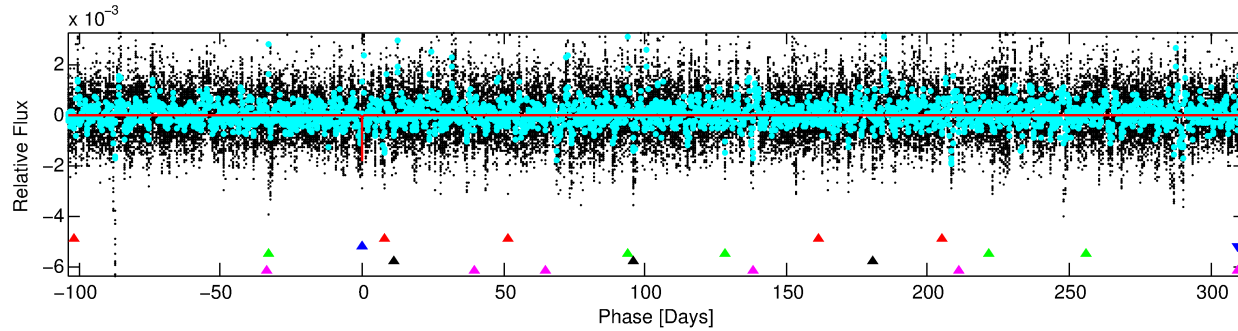
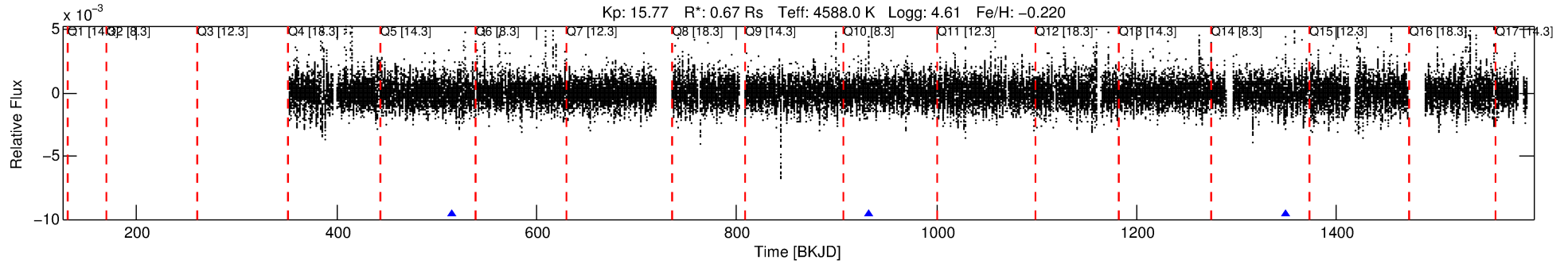
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006611419-02

No Significant Match Found

DV One-Page Summary

KIC: 6611419 Candidate: 2 of 5 Period: 416.564 d



DV Fit Results:

Period = 416.56413 [0.00906] d
Epoch = 515.6638 [0.0122] BKJD
Rp/R* = 0.0376 [0.0141]
a/R* = 207.31 [232.45]
b = 0.14 [7.66]
Seff = 0.20 [0.03]
Teq = 170 [7] K
Rp = 2.74 [1.05] Re
a = 0.9487 [0.0676] AU
Ag = 90011.97 [71972.67] [1.25 σ]
Teffp = 4542 [916] K [4.78 σ]

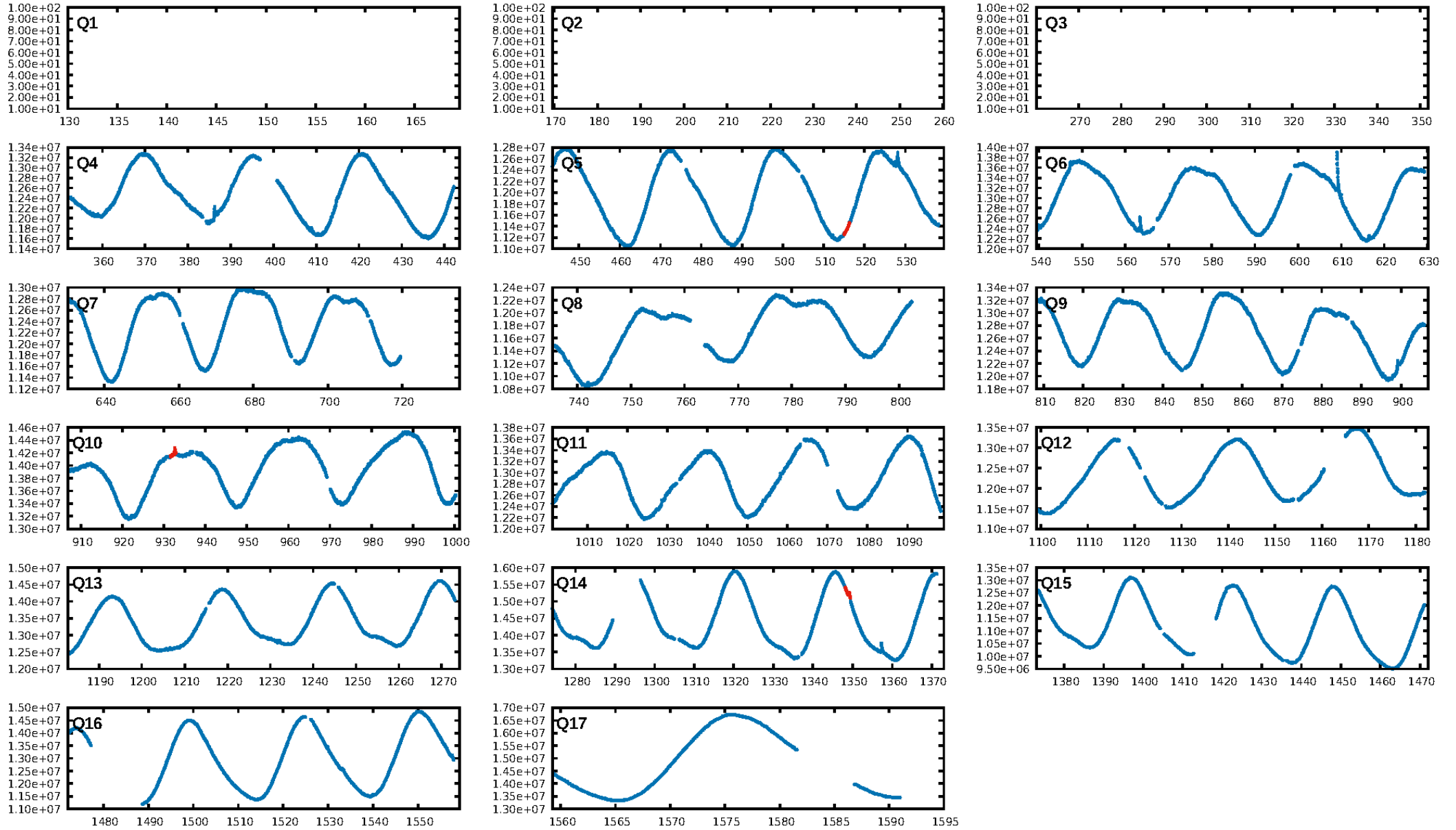
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [167.21 σ]
LongPeriod-sig: 100.0% [107.66 σ]
ModelChiSquare2-sig: 0.3%
ModelChiSquareGof-sig: 95.0%
Bootstrap-pfa: 8.65e-18
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 963.9
Centroid-sig: 0.3%
Centroid-so: 3.469 arcsec [2.01 σ]
OotOffset-rm: 8.420 arcsec [8.75 σ]
KicOffset-rm: 0.454 arcsec [0.43 σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
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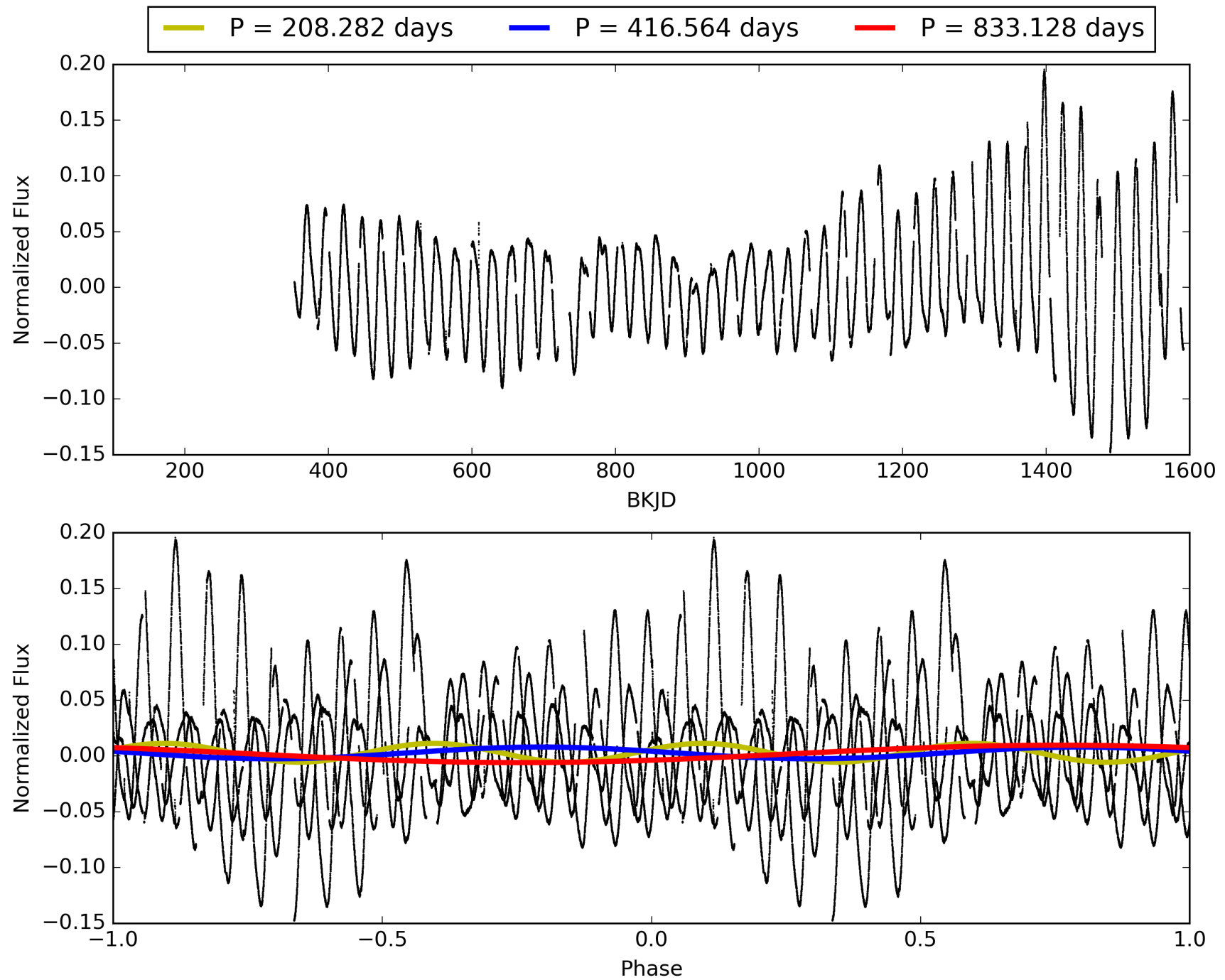
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:38:16 Z

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

TCE 006611419-02, PDC Light Curves

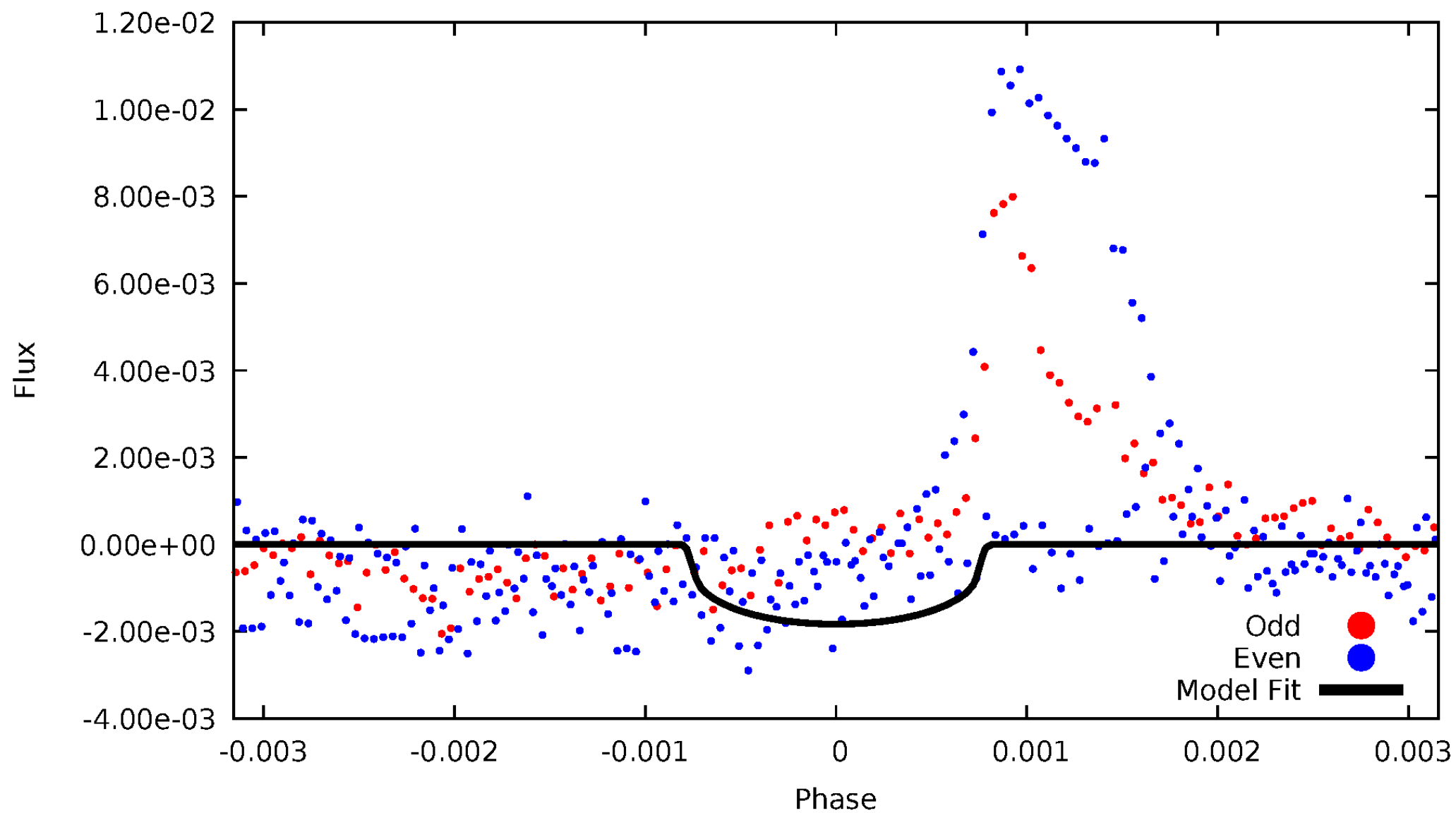


TCE 006611419-02



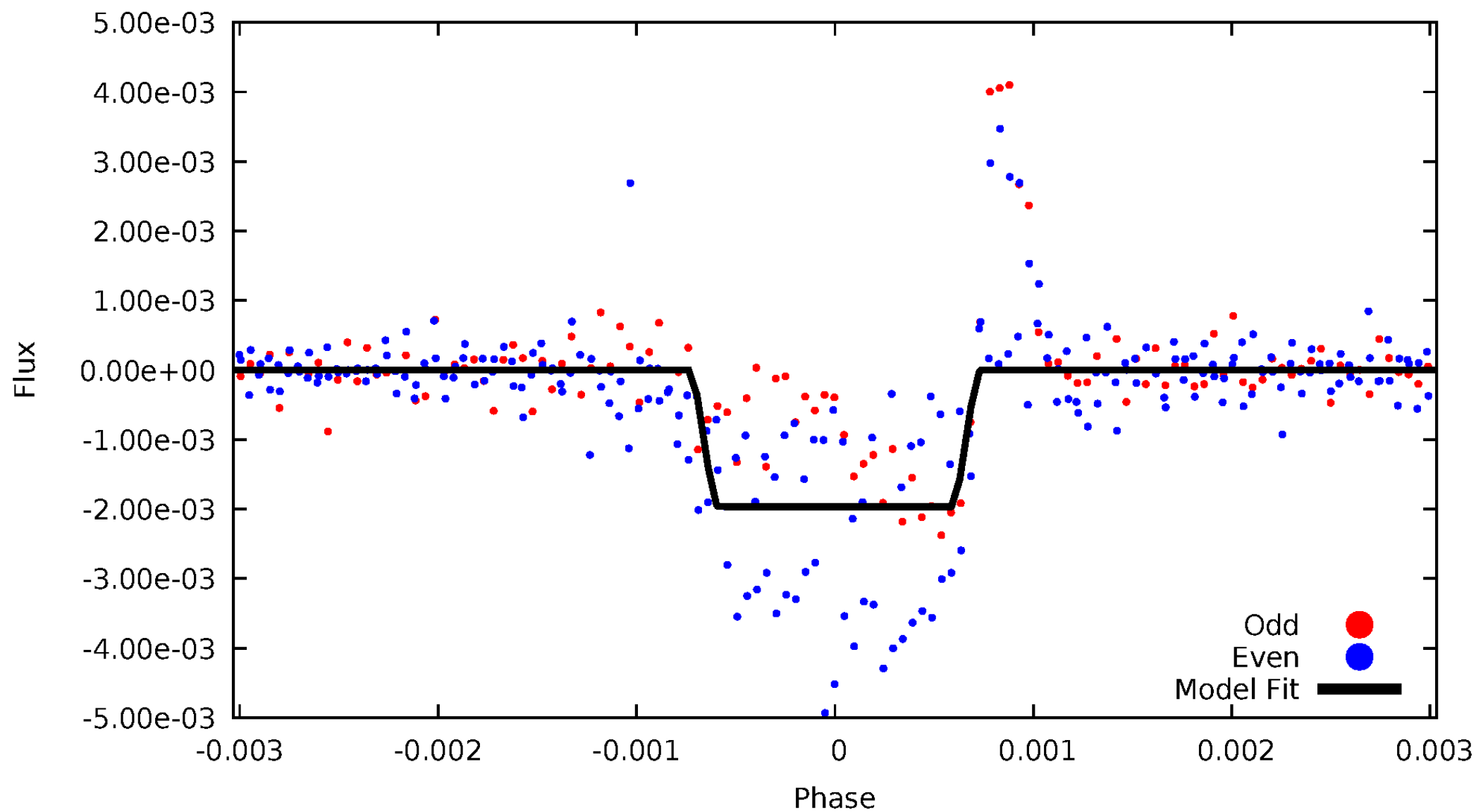
DV Odd/Even

TCE 006611419-02



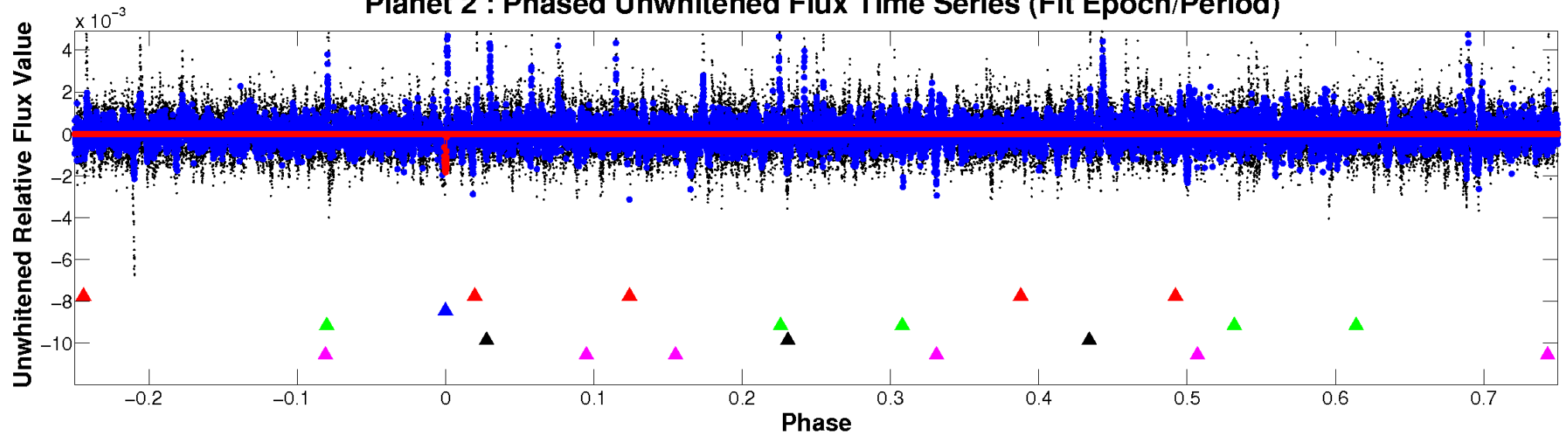
ALT Odd/Even

TCE 006611419-02

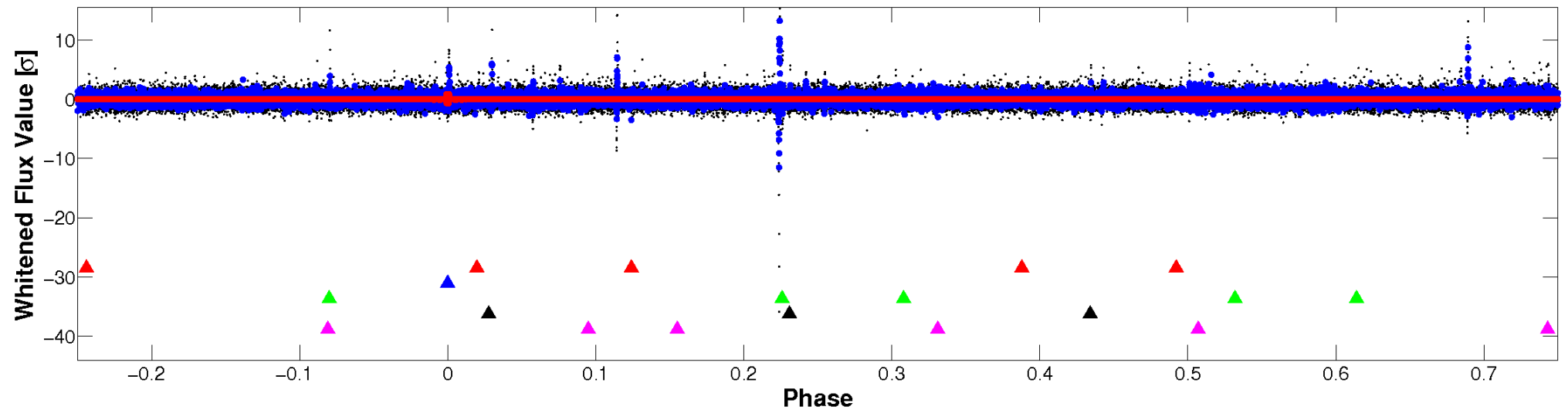


Non-Whitened Vs. Whitened Light Curve

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

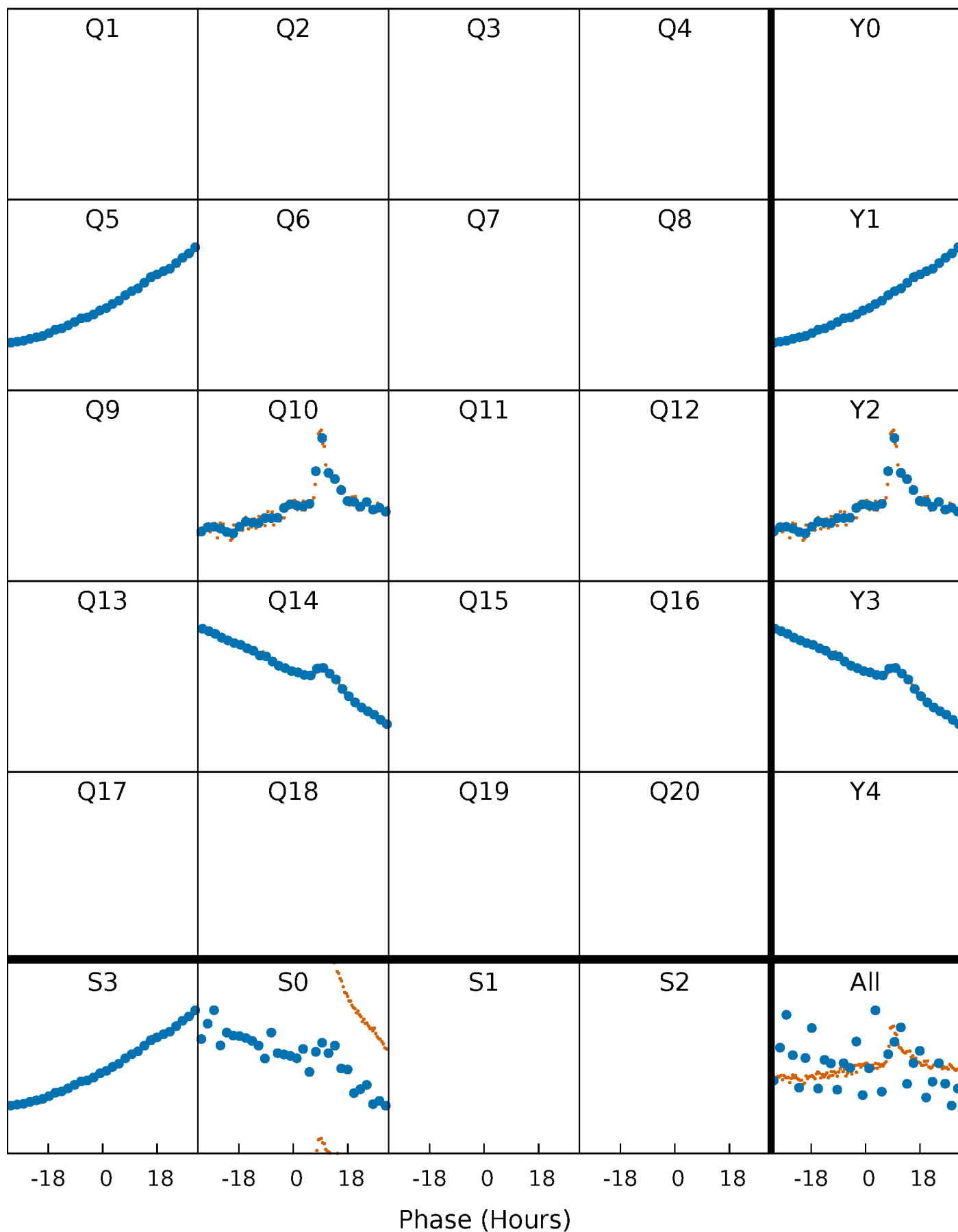


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



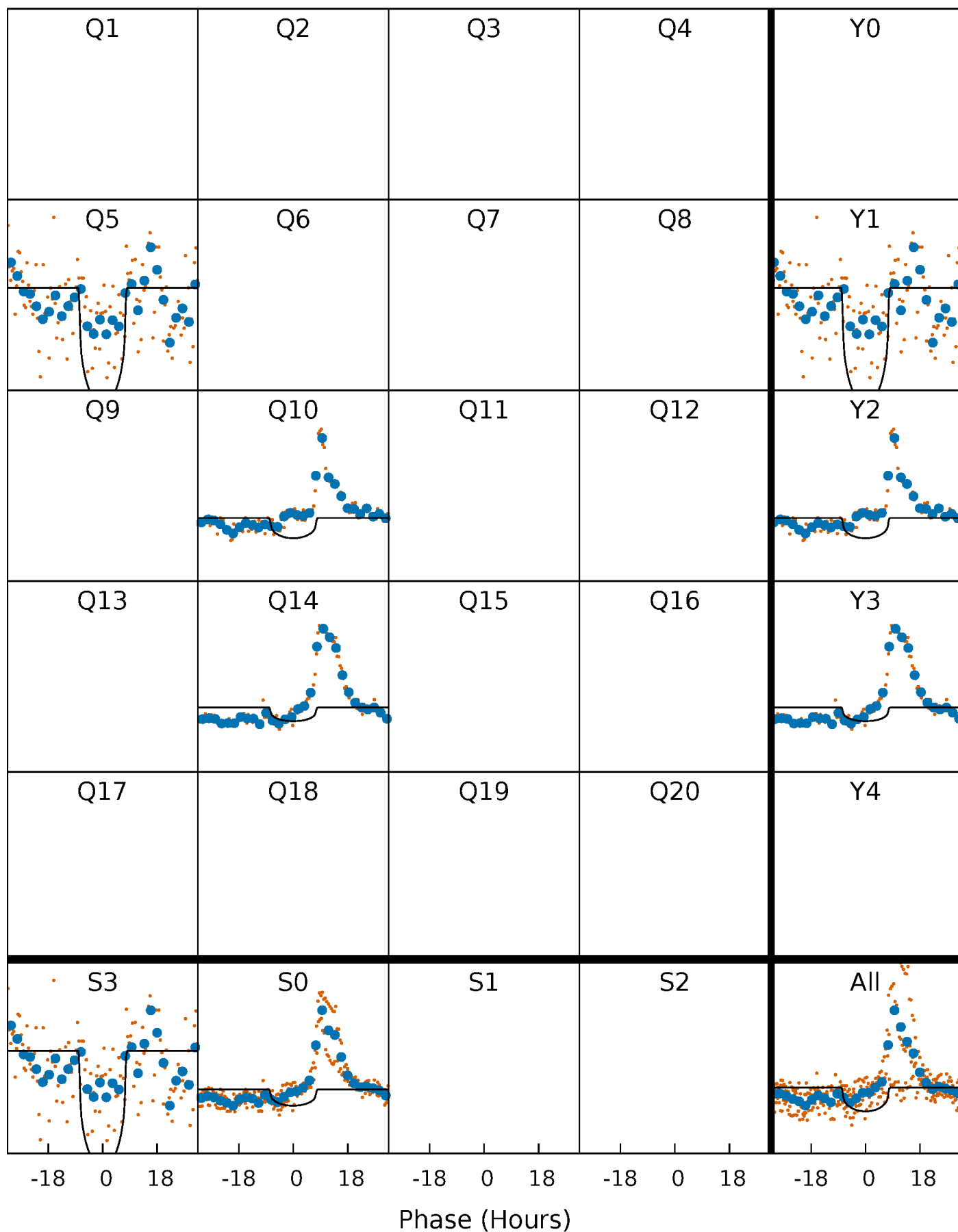
PDC Quarter-Phased Transit Curves

TCE 006611419-02 P=416.564130 Days $T_0=515.663760$ (BKJD)



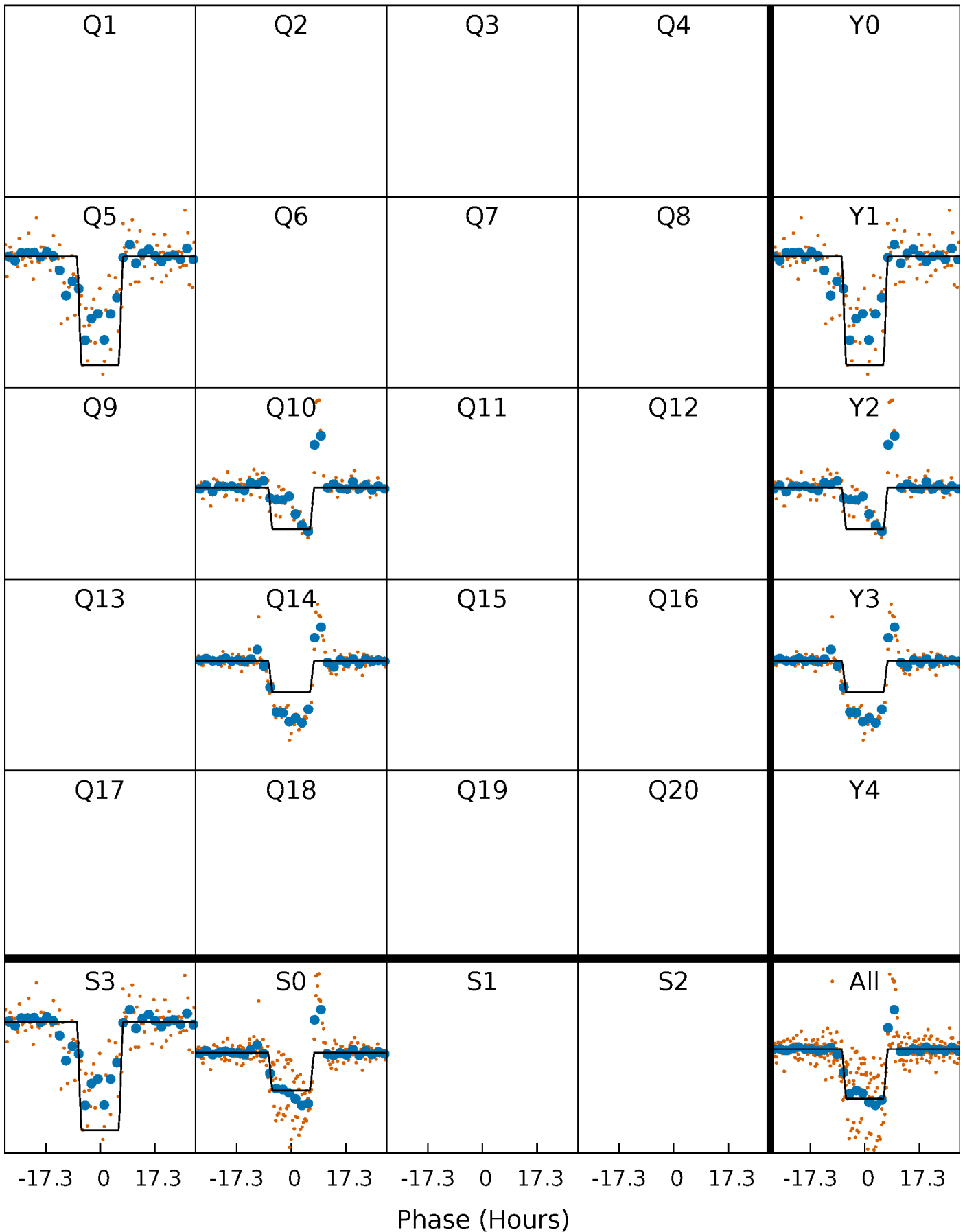
DV Quarter-Phased Transit Curves

TCE 006611419-02 P=416.564130 Days $T_0=515.663760$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

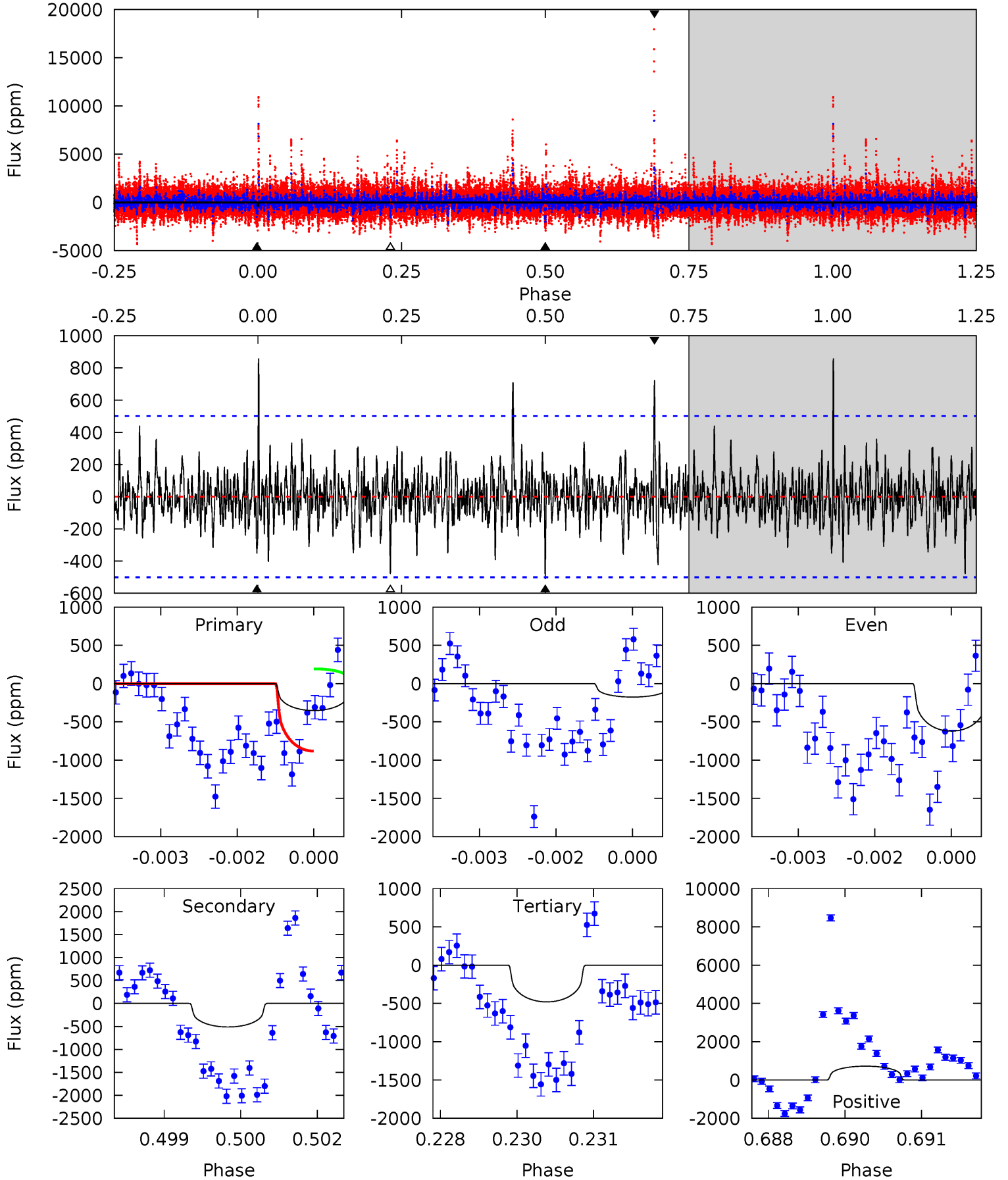
TCE 006611419-02 P=416.558554 Days $T_0=515.688600$ (BKJD)



DV Model-Shift Uniqueness Test

006611419-02, P = 416.564130 Days, E = 99.099630 Days

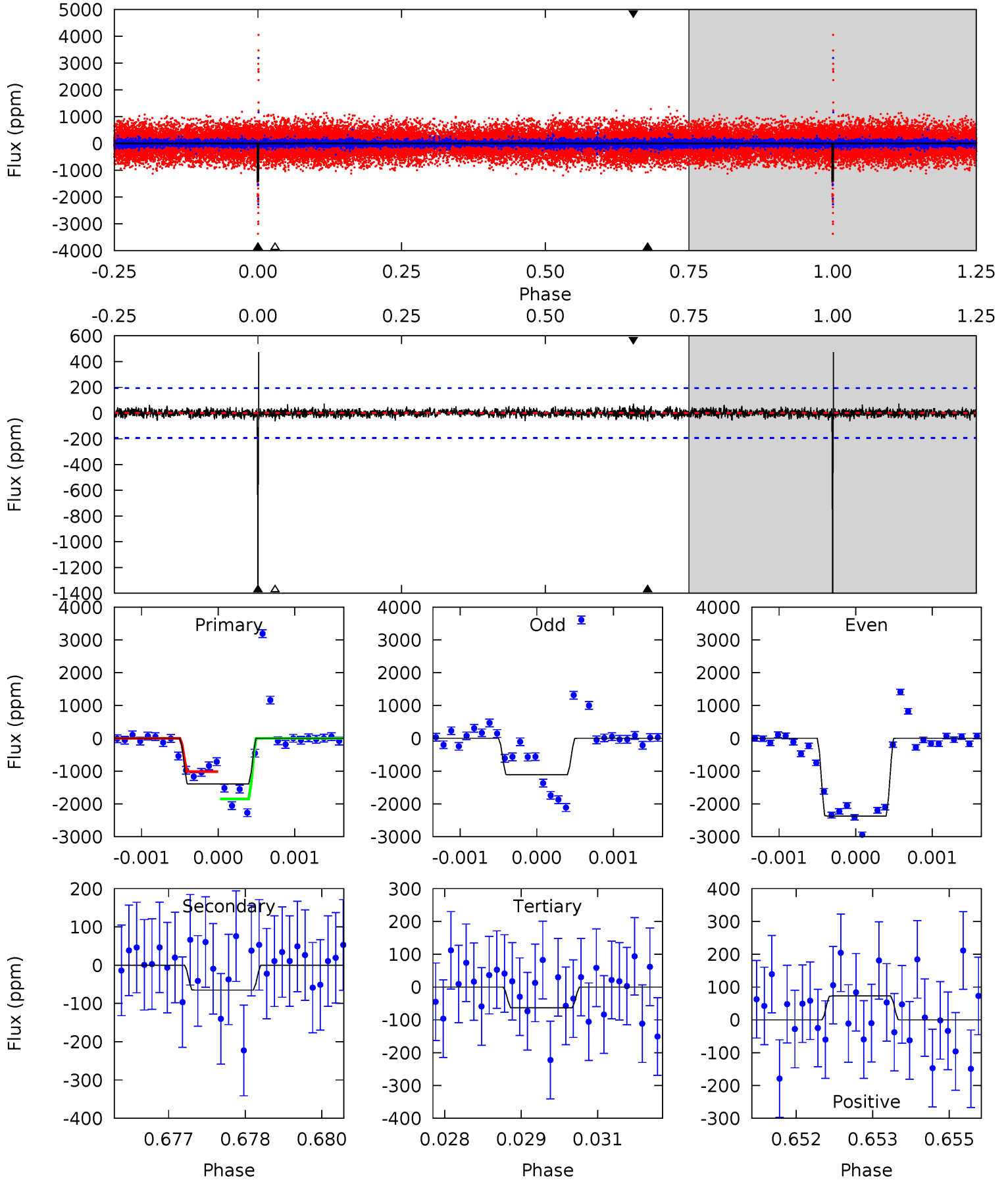
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.77	5.49	5.13	7.75	5.37	3.15	1.35	-1.37	-3.99	0.35	-2.27	2.14	0.61	0.63	3.75



Alt Model-Shift Uniqueness Test

006611419-02, P = 416.558554 Days, E = 99.130046 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.7	1.81	1.76	2.01	5.38	3.18	0.46	36.9	36.7	0.05	-0.21	20.9	1.63	0.25	0



Stellar Parameters For KIC 006611419

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4588^{+165}_{-165}	$4.608^{+0.052}_{-0.028}$	$-0.220^{+0.300}_{-0.300}$	$0.666^{+0.054}_{-0.059}$	$0.656^{+0.075}_{-0.054}$	$3.134^{+0.726}_{-0.407}$
	+4%/-4%	+1%/-1%	+136%/-136%	+8%/-9%	+11%/-8%	+23%/-13%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006611419-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-512 ± 93	$2.75^{+1.00}_{-0.99}$	236^{+10}_{-9}	3797^{+702}_{-393}	33915^{+51486}_{-16776}
Alt.	-65 ± 36	$3.17^{+1.02}_{-0.97}$	236^{+9}_{-10}	2667^{+343}_{-298}	3105^{+4659}_{-1870}

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 $A_{obs} \gg 1.0$

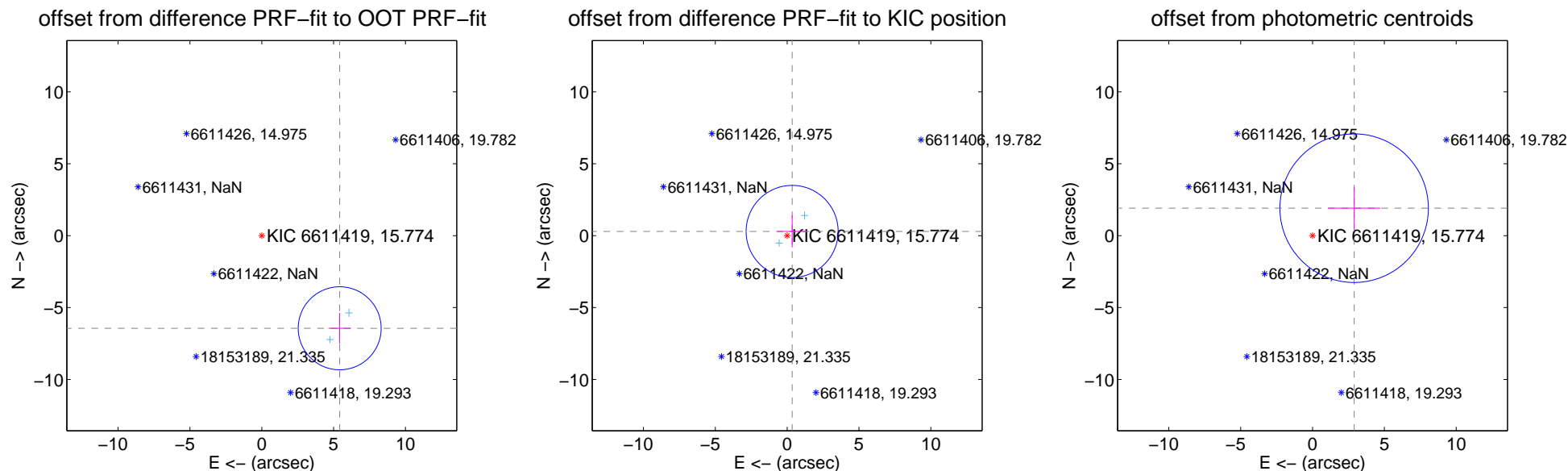
DV Centroid Data

Supplemental centroid analysis for 006611419-02. Kepler magnitude: 15.77. Transit SNR 6.34

There are 2 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 8.33 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.420 ± 0.962	8.75	-5.422 ± 0.777	-6.442 ± 1.074
PRF-fit source offset from KIC position	0.454 ± 1.067	0.43	-0.348 ± 1.038	0.292 ± 1.108
photometric centroid source offset	3.47 ± 1.72	2.01	-2.90 ± 1.82	1.91 ± 1.46

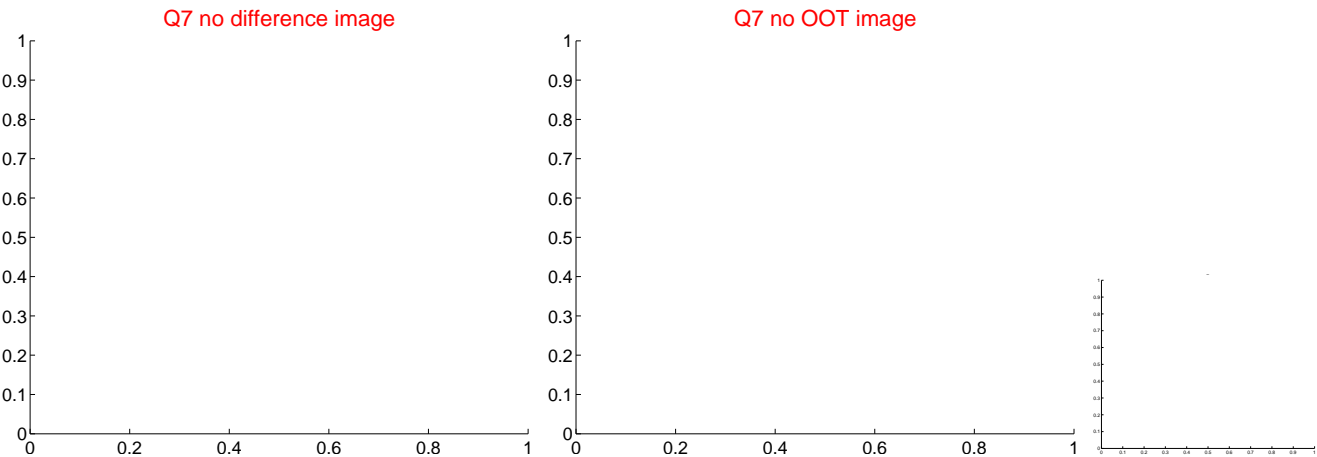
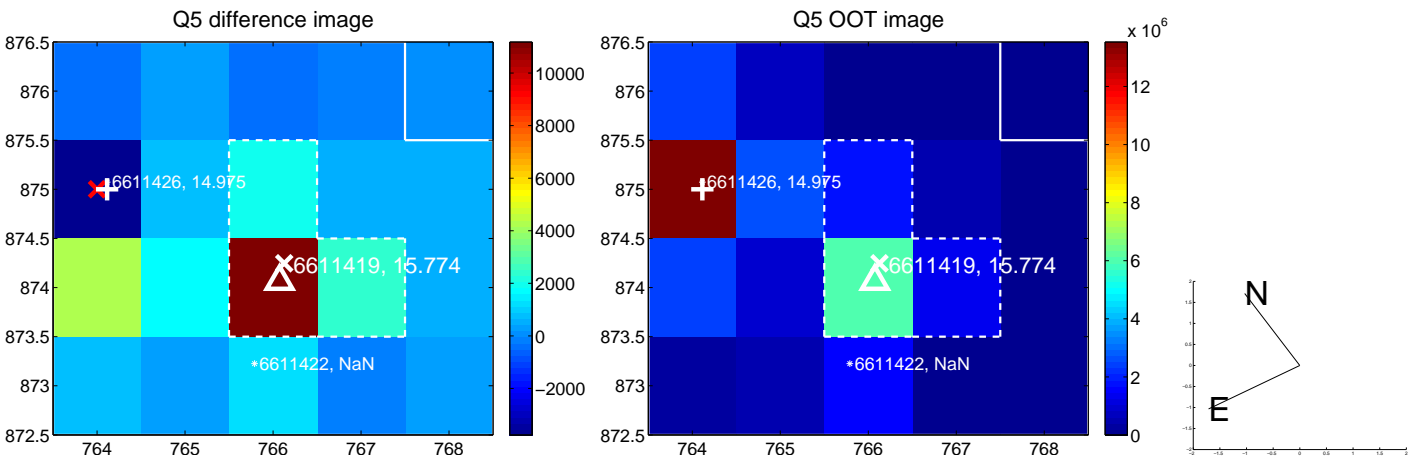


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

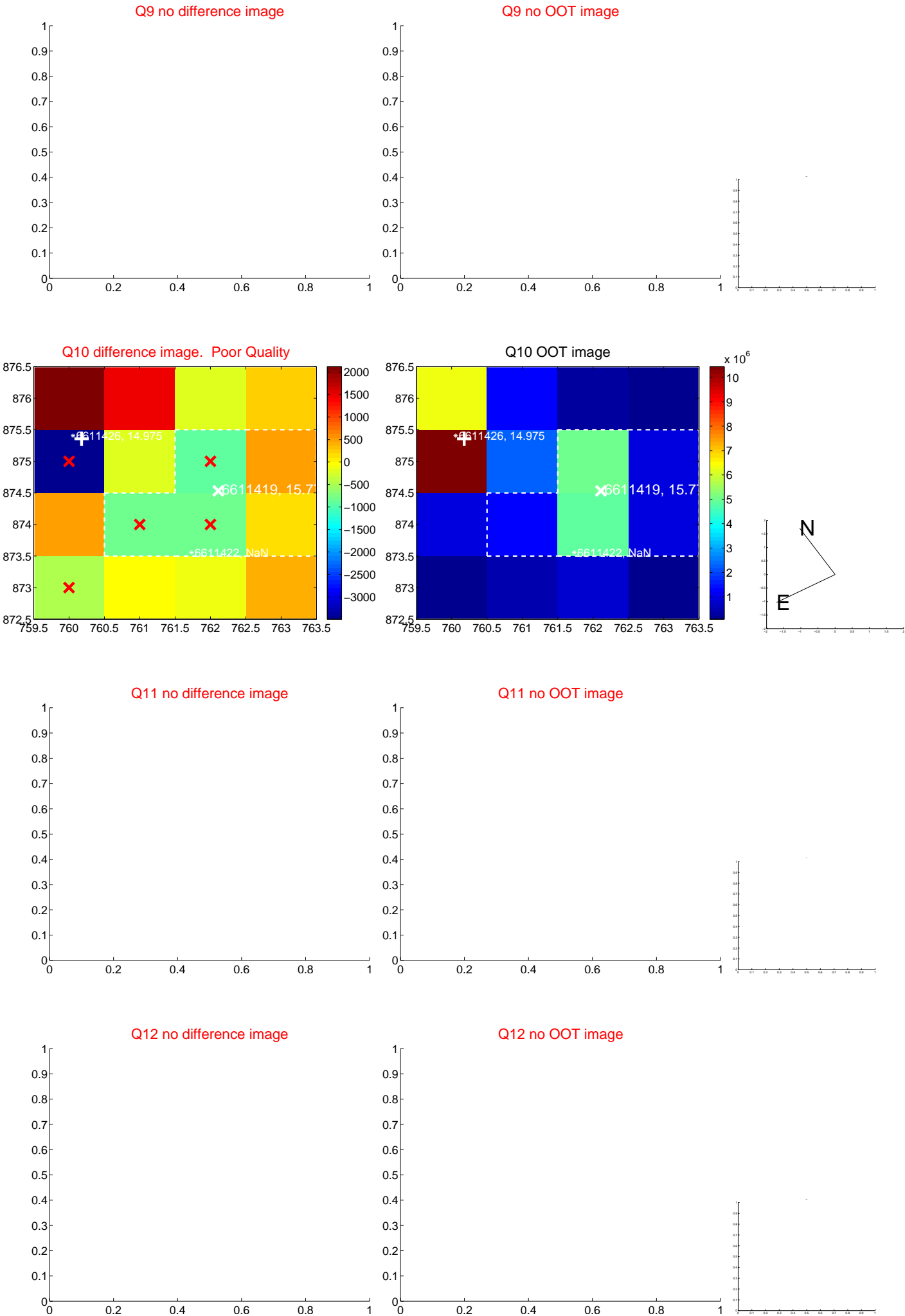
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

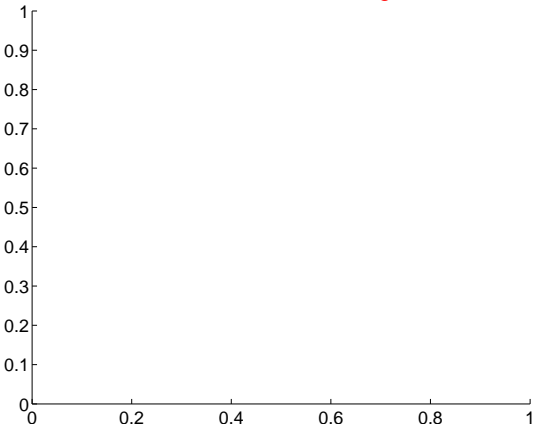


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

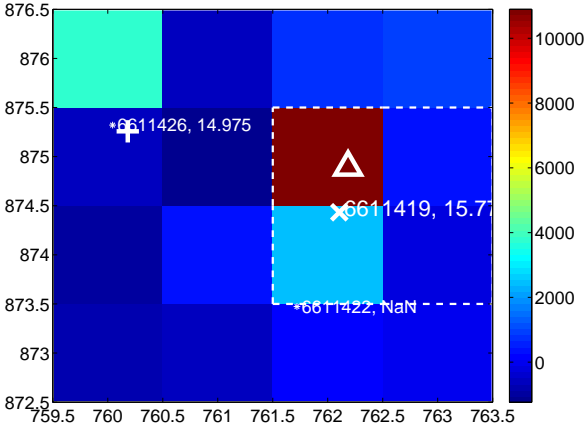
Q13 no difference image



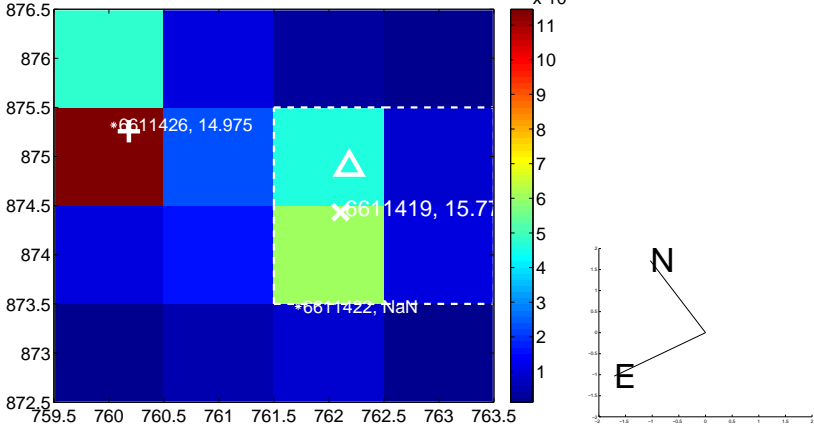
Q13 no OOT image



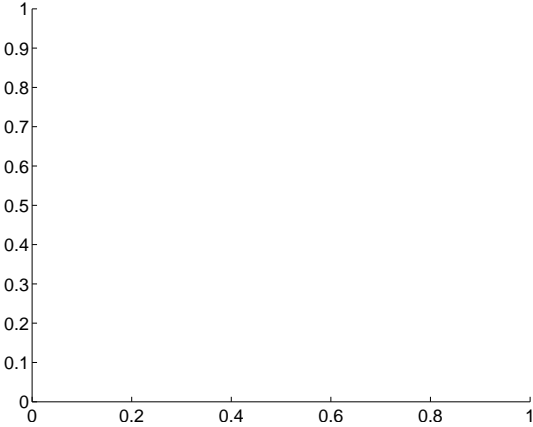
Q14 difference image



Q14 OOT image



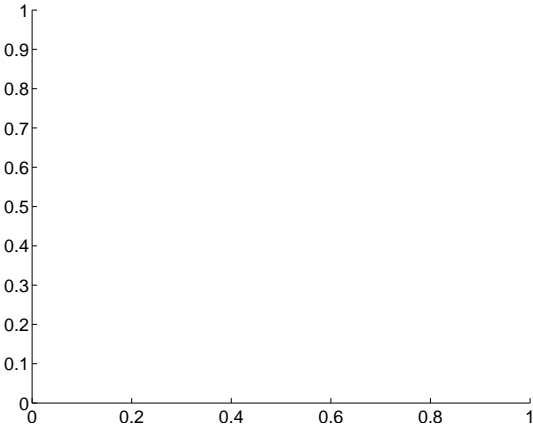
Q15 no difference image



Q15 no OOT image



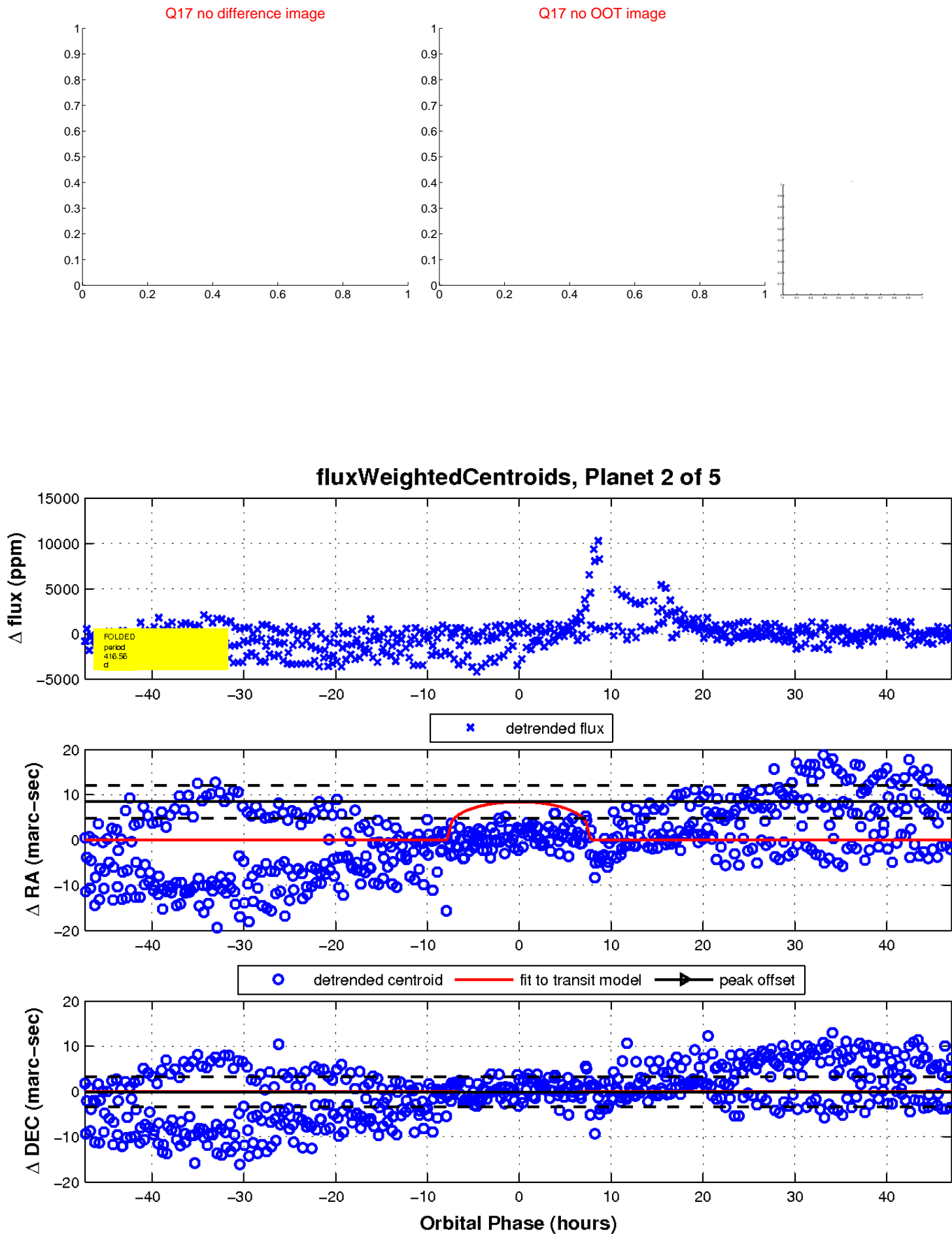
Q16 no difference image



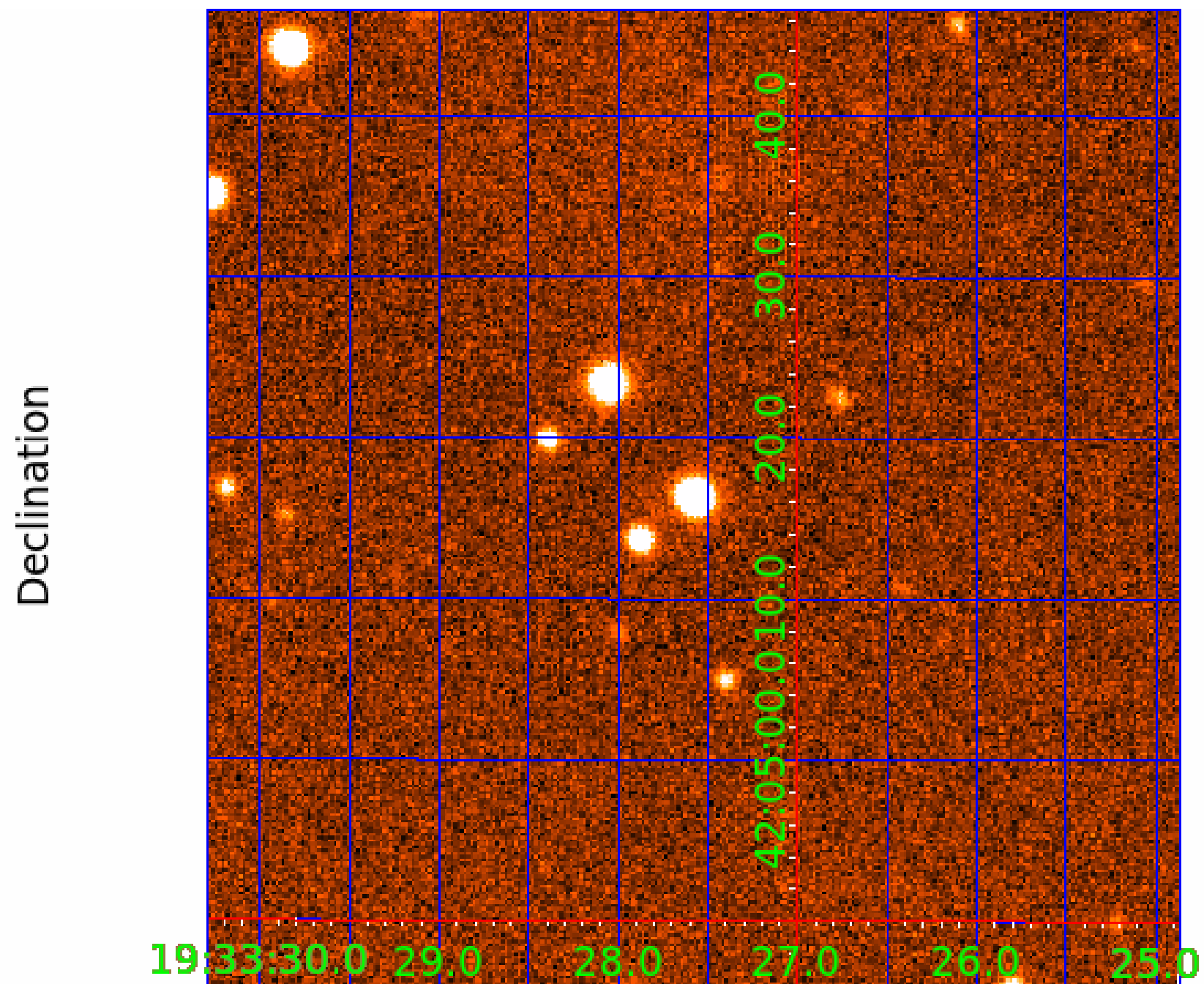
Q16 no OOT image



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



UKIRT Image



KIC 006611419

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})
006611419-01	OBS	No	263.221716	304.133118	1969.6	8.228	16.3	7.7	0.67	4588	3.72	0.36
006611419-02	OBS	No	416.564131	515.663760	1829.5	15.773	13.3	6.3	0.67	4588	2.73	0.20
006611419-03	OBS	No	289.108928	320.659724	1971.9	9.268	12.0	7.2	0.67	4588	3.04	0.32
006611419-04	OBS	No	501.197979	527.211100	2676.7	10.352	11.8	9.4	0.67	4588	3.34	0.15
006611419-05	OBS	No	244.929148	163.715575	1413.4	6.881	9.1	6.9	0.67	4588	2.59	0.40

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006611419-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006611419-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006611419-03	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—CENT_FEW_DIFFS—HALO_GHOST
006611419-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—CENT_KIC_POS
006611419-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

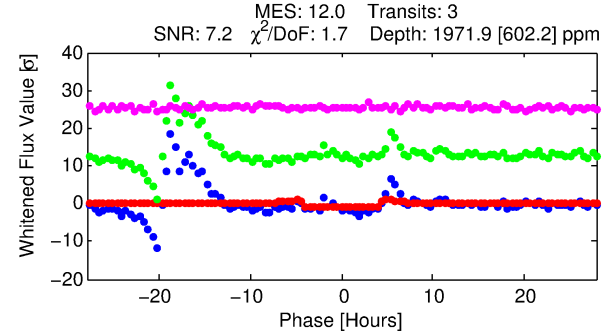
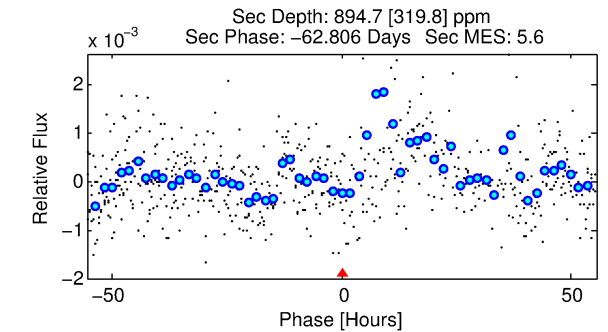
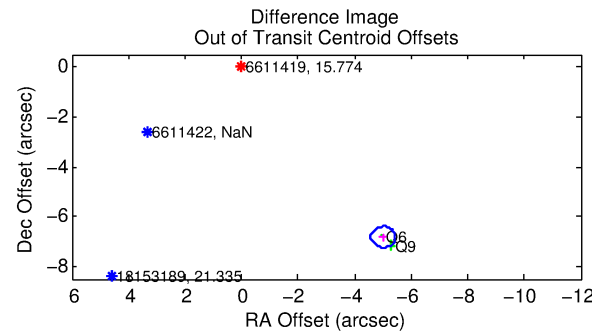
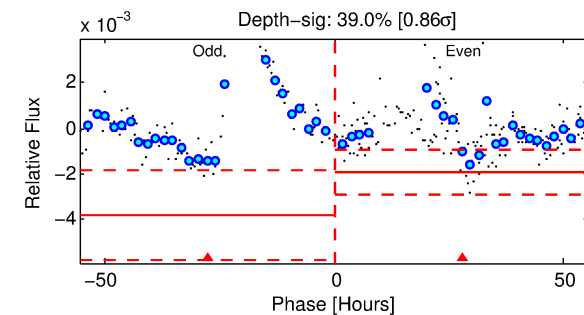
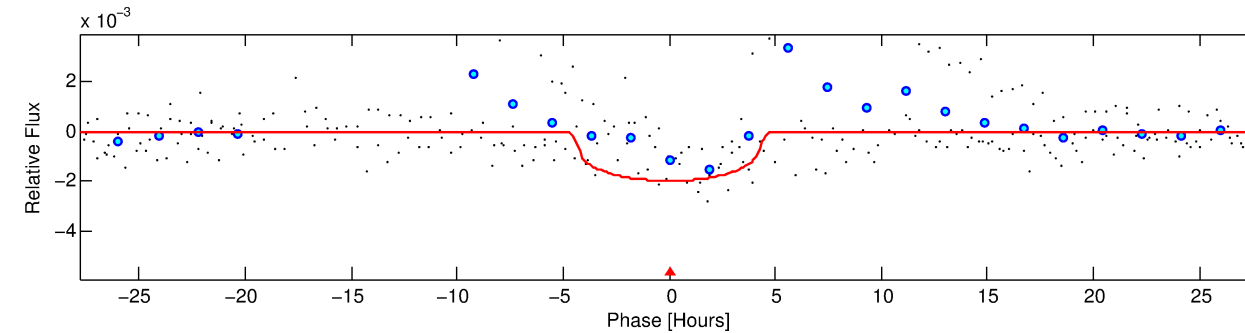
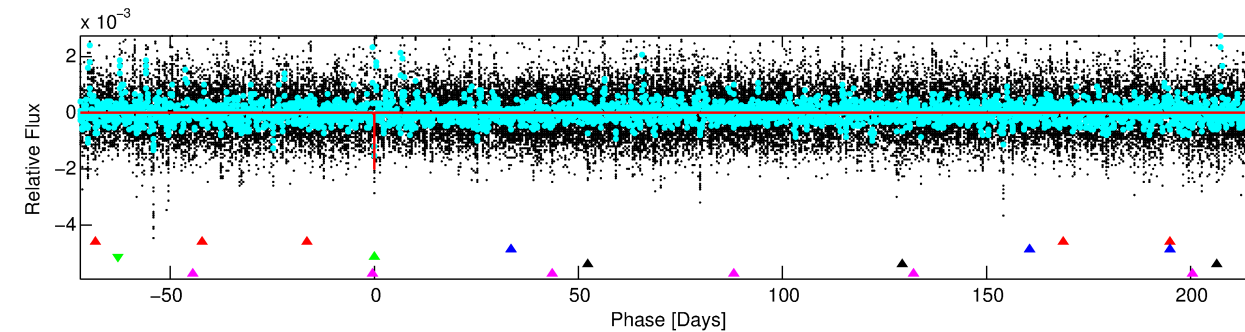
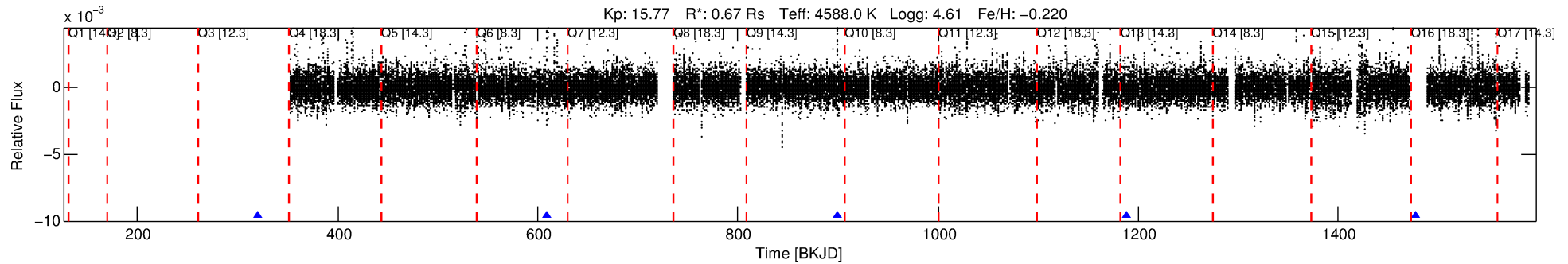
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006611419-03

No Significant Match Found

DV One-Page Summary

KIC: 6611419 Candidate: 3 of 5 Period: 289.109 d



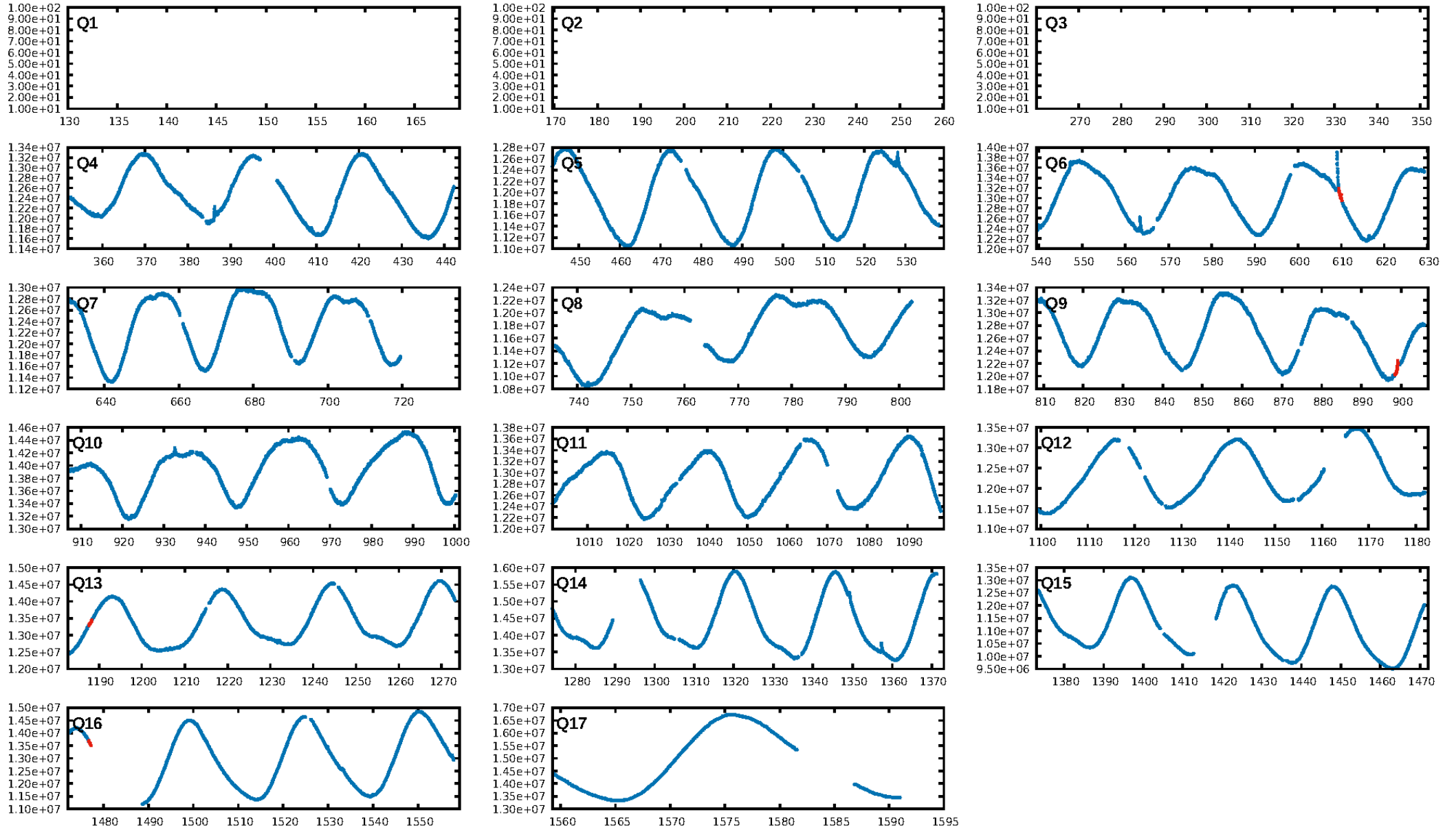
DV Fit Results:

Period = 289.10893 [0.01394] d
Epoch = 320.6597 [0.0309] BKJD
Rp/R* = 0.0418 [0.0337]
a/R* = 203.75 [491.43]
b = 0.60 [2.68]
Seff = 0.32 [0.06]
Teq = 192 [8] K
Rp = 3.04 [2.47] Re
a = 0.7437 [0.0530] AU
Ag = 29481.74 [48796.51] [0.60 σ]
Teffp = 3881 [1609] K [2.29 σ]

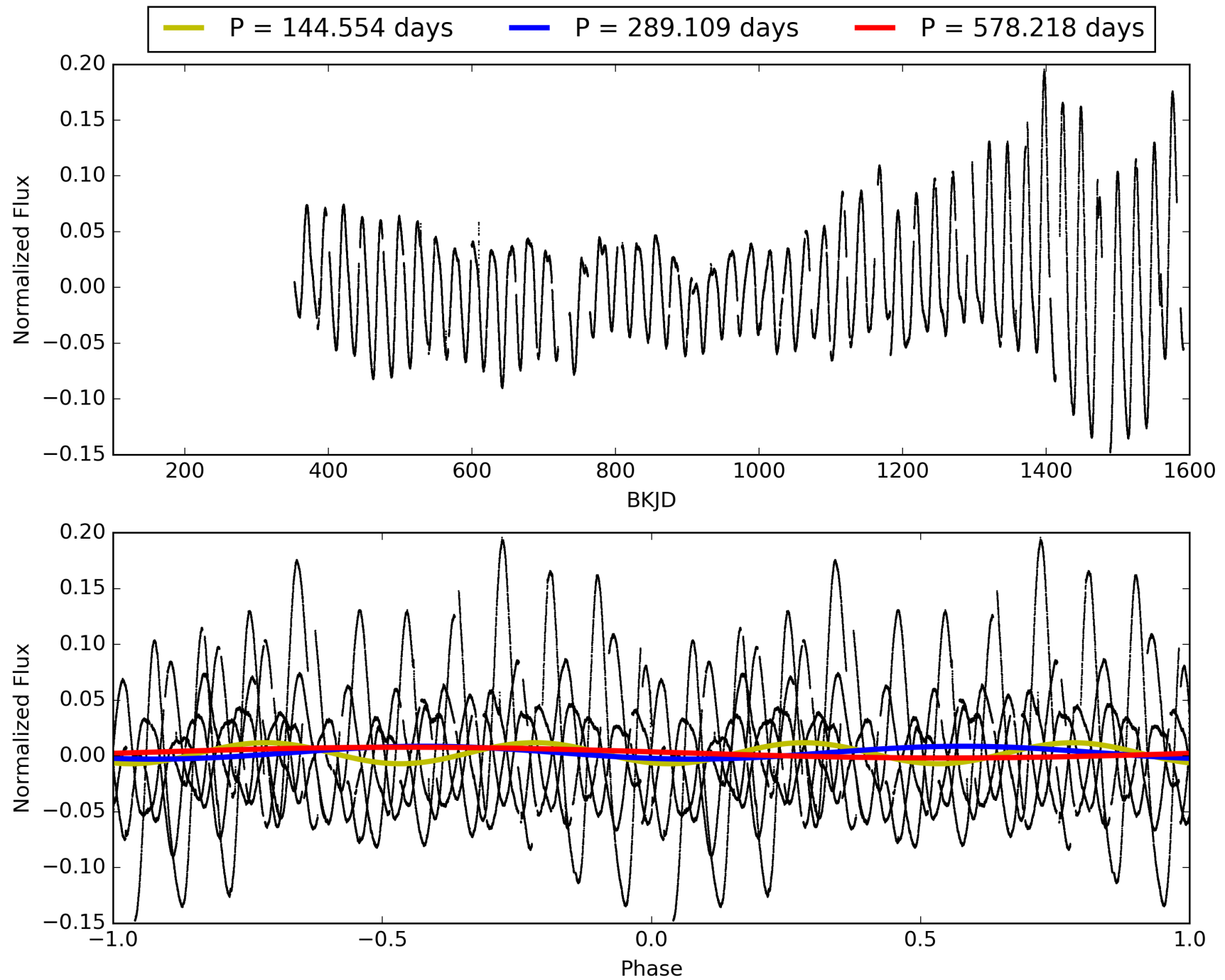
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [50.13 σ]
LongPeriod-sig: 100.0% [167.21 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 3.8%
Bootstrap-pfa: 9.86e-17
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.08615
Centroid-sig: 72.9%
Centroid-so: 2.547 arcsec [2.13 σ]
OotOffset-rm: 8.457 arcsec [60.10 σ]
KicOffset-rm: 0.045 arcsec [0.38 σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 0.50 [1/2]

TCE 006611419-03, PDC Light Curves

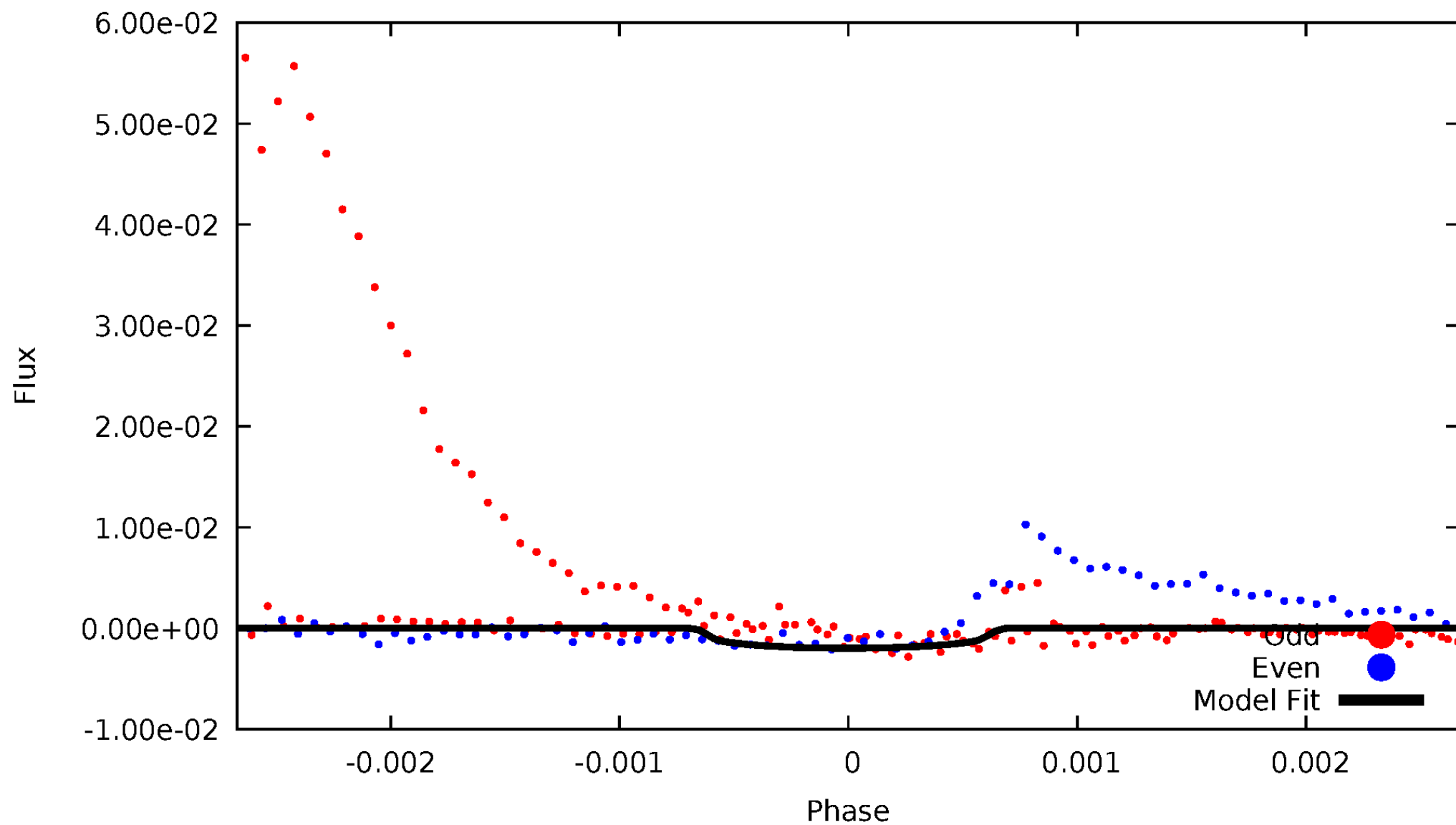


TCE 006611419-03



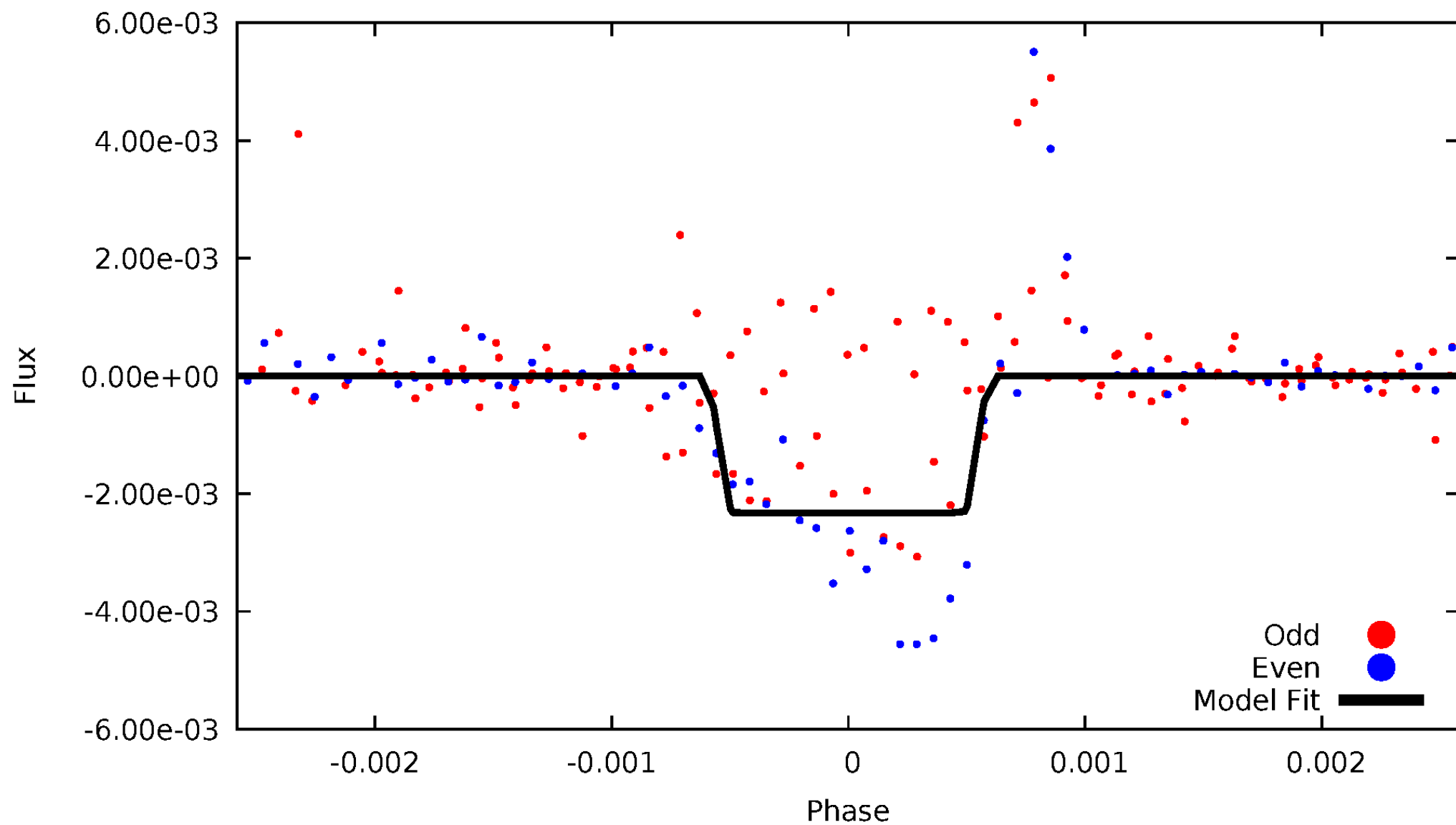
DV Odd/Even

TCE 006611419-03



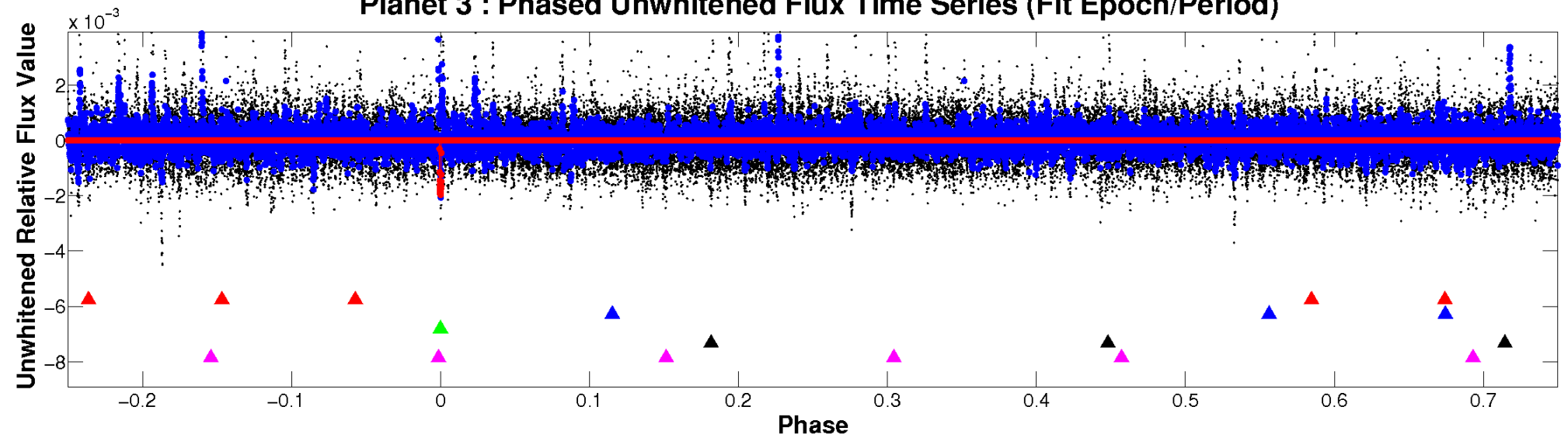
ALT Odd/Even

TCE 006611419-03

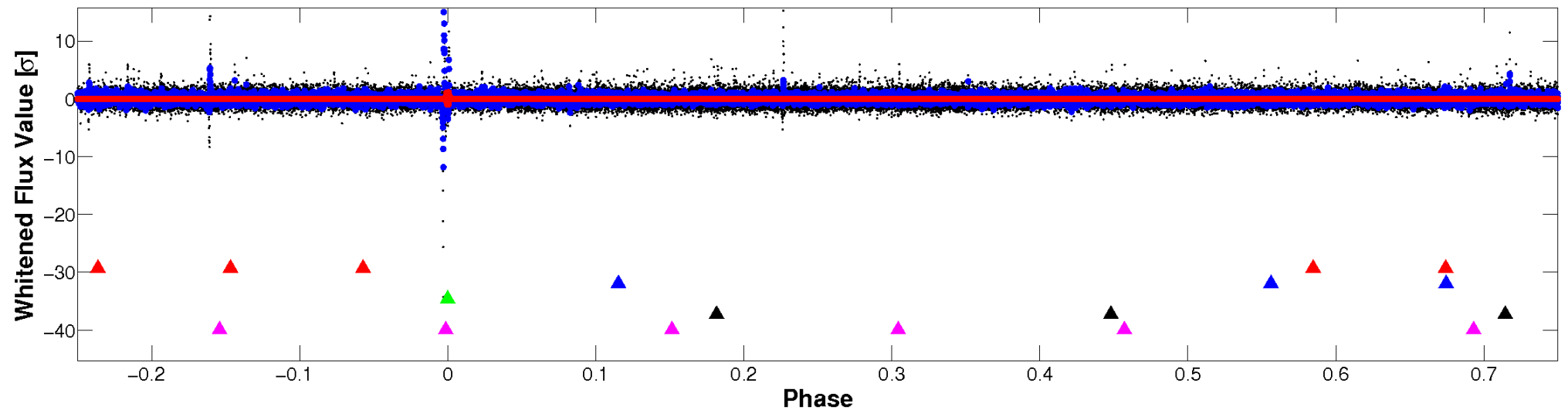


Non-Whitened Vs. Whitened Light Curve

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

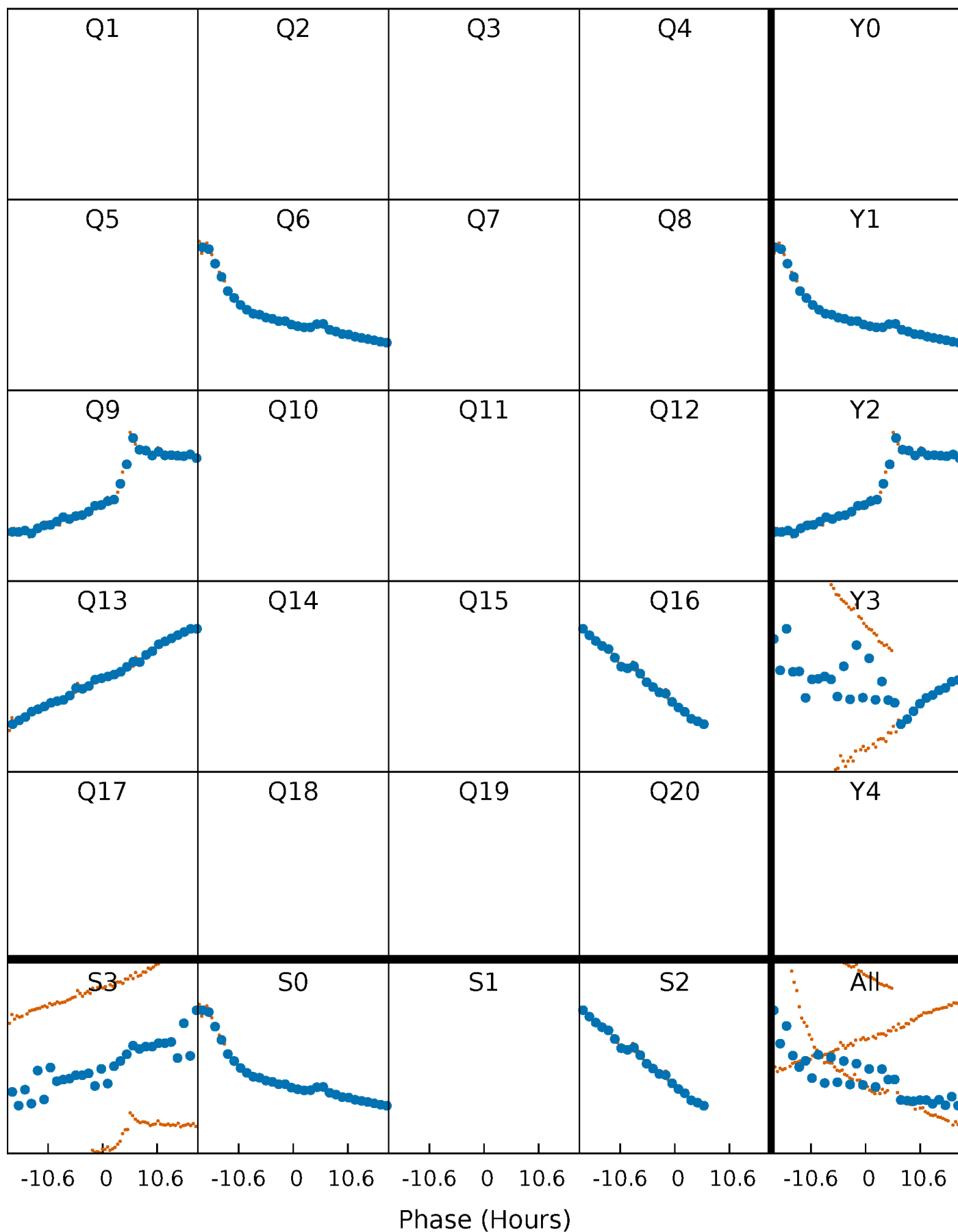


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



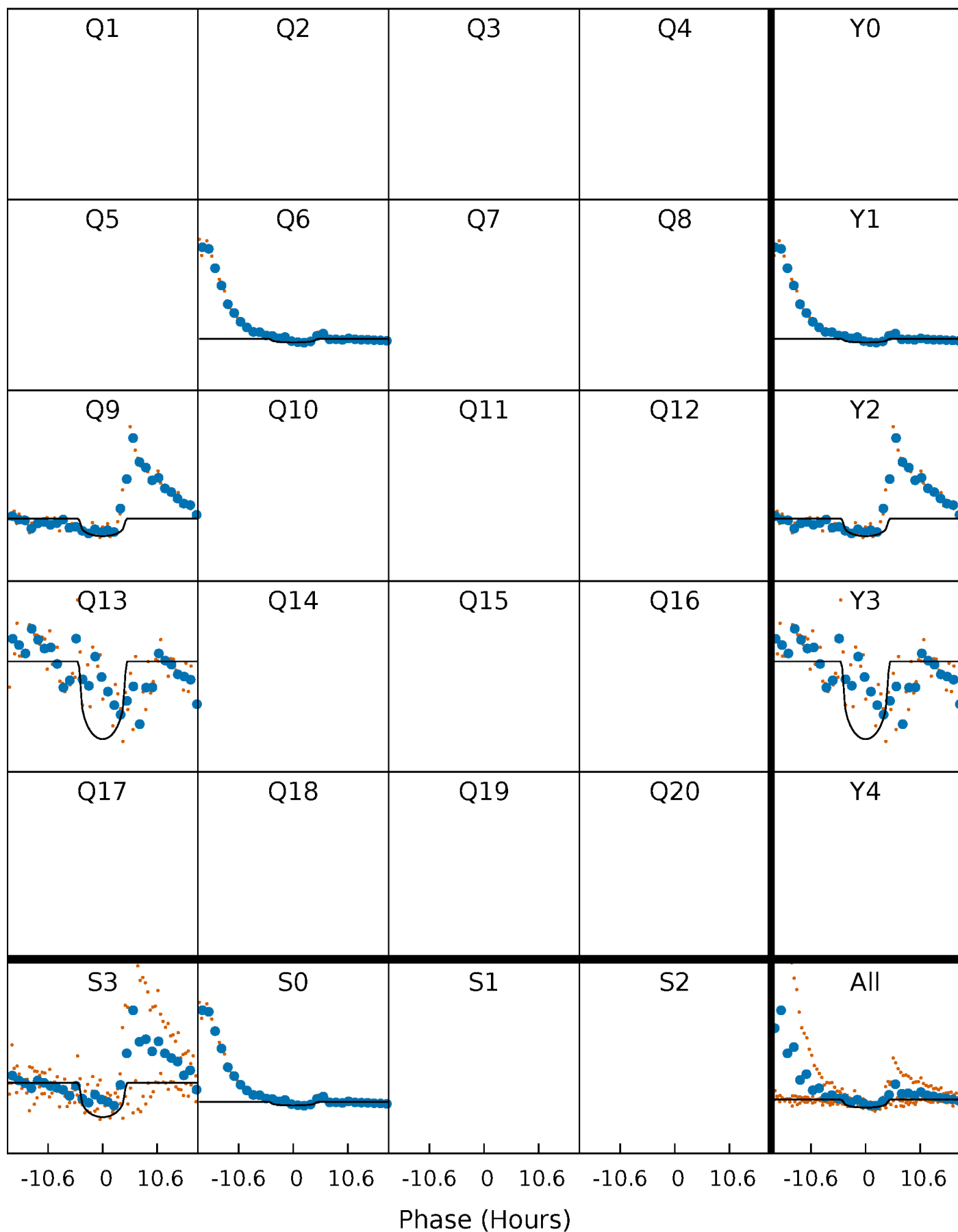
PDC Quarter-Phased Transit Curves

TCE 006611419-03 $P=289.108928$ Days $T_0=320.659724$ (BKJD)



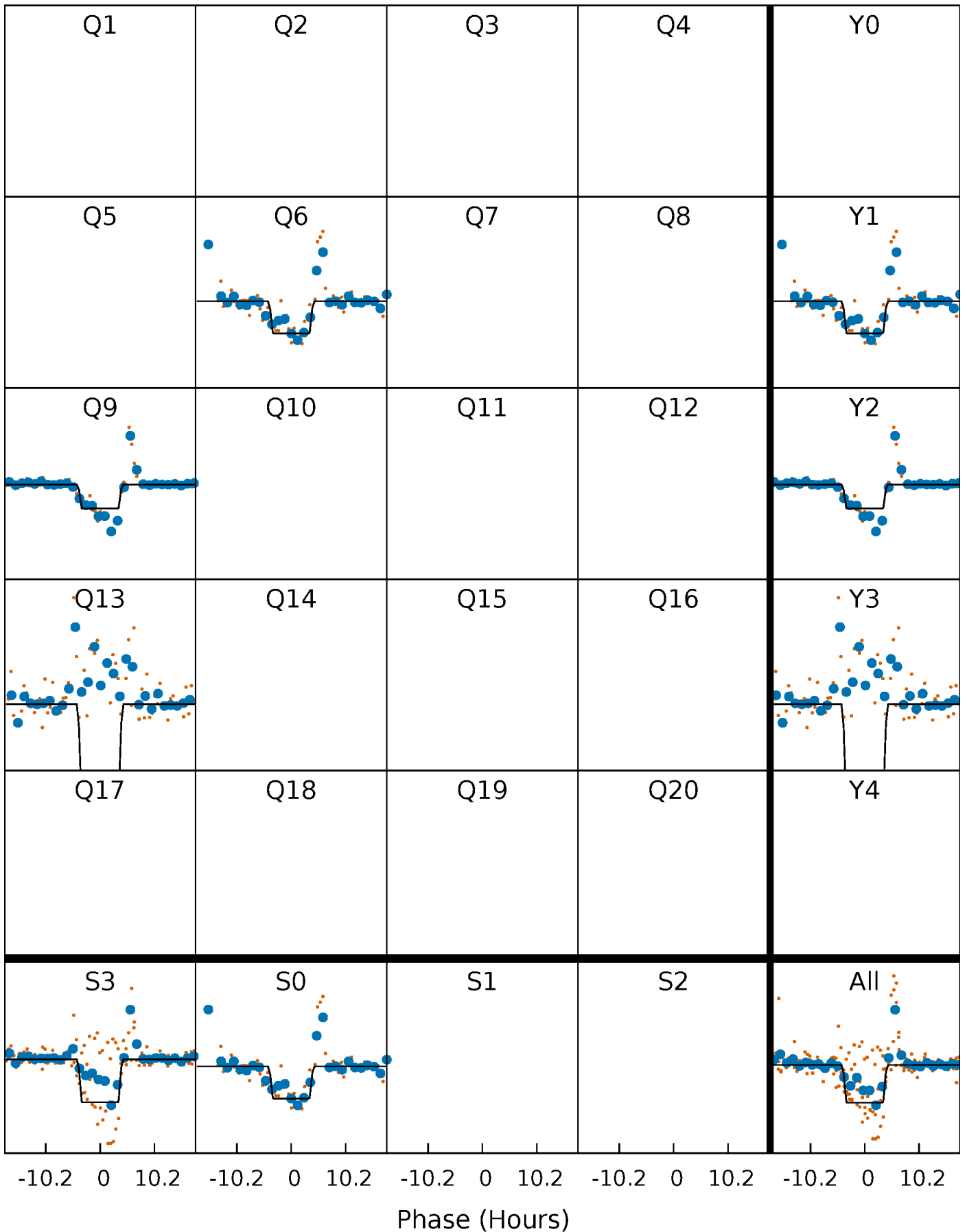
DV Quarter-Phased Transit Curves

TCE 006611419-03 $P=289.108928$ Days $T_0=320.659724$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

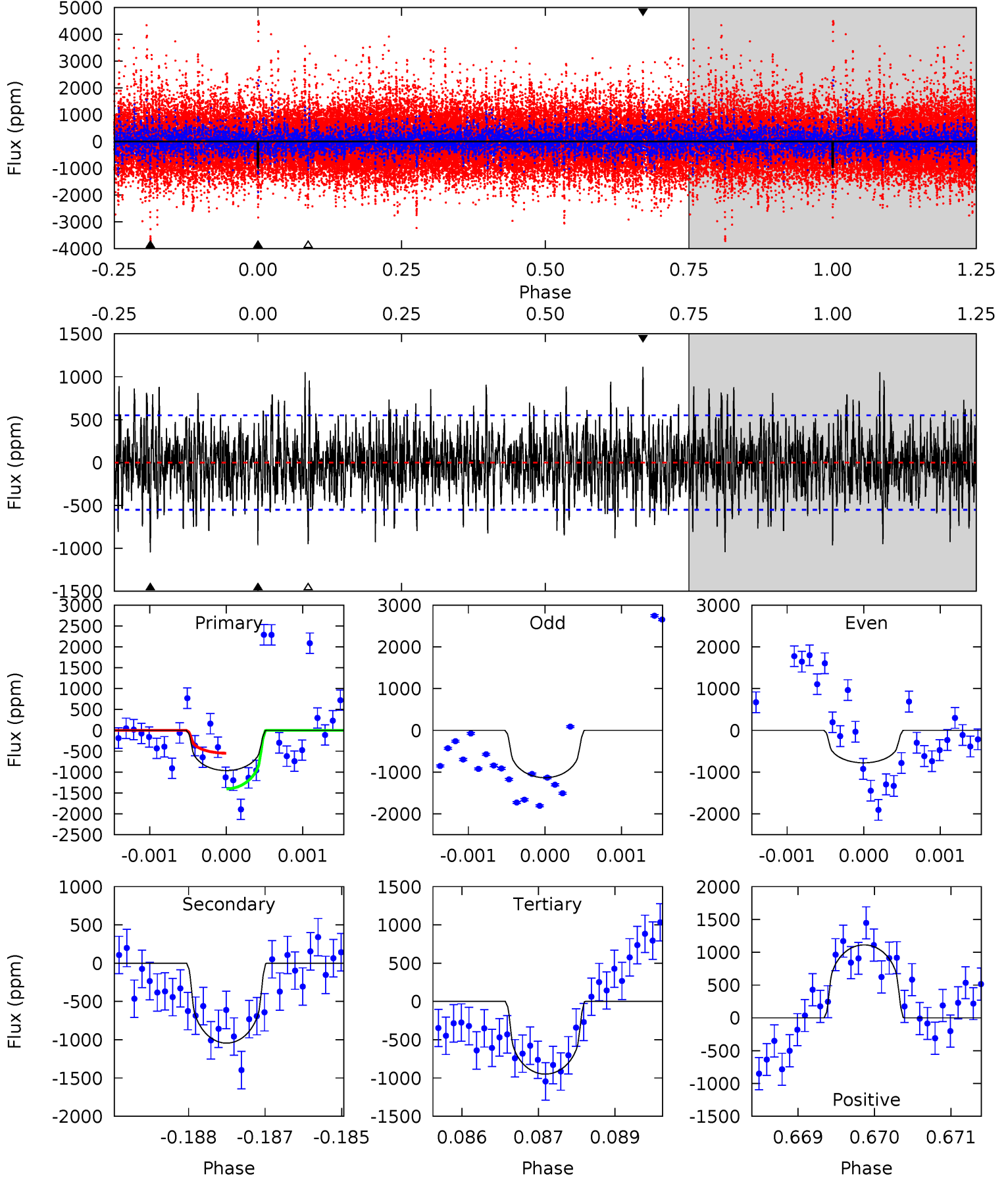
TCE 006611419-03 $P=289.114440$ Days $T_0=320.645970$ (BKJD)



DV Model-Shift Uniqueness Test

006611419-03, P = 289.108928 Days, E = 320.659724 Days

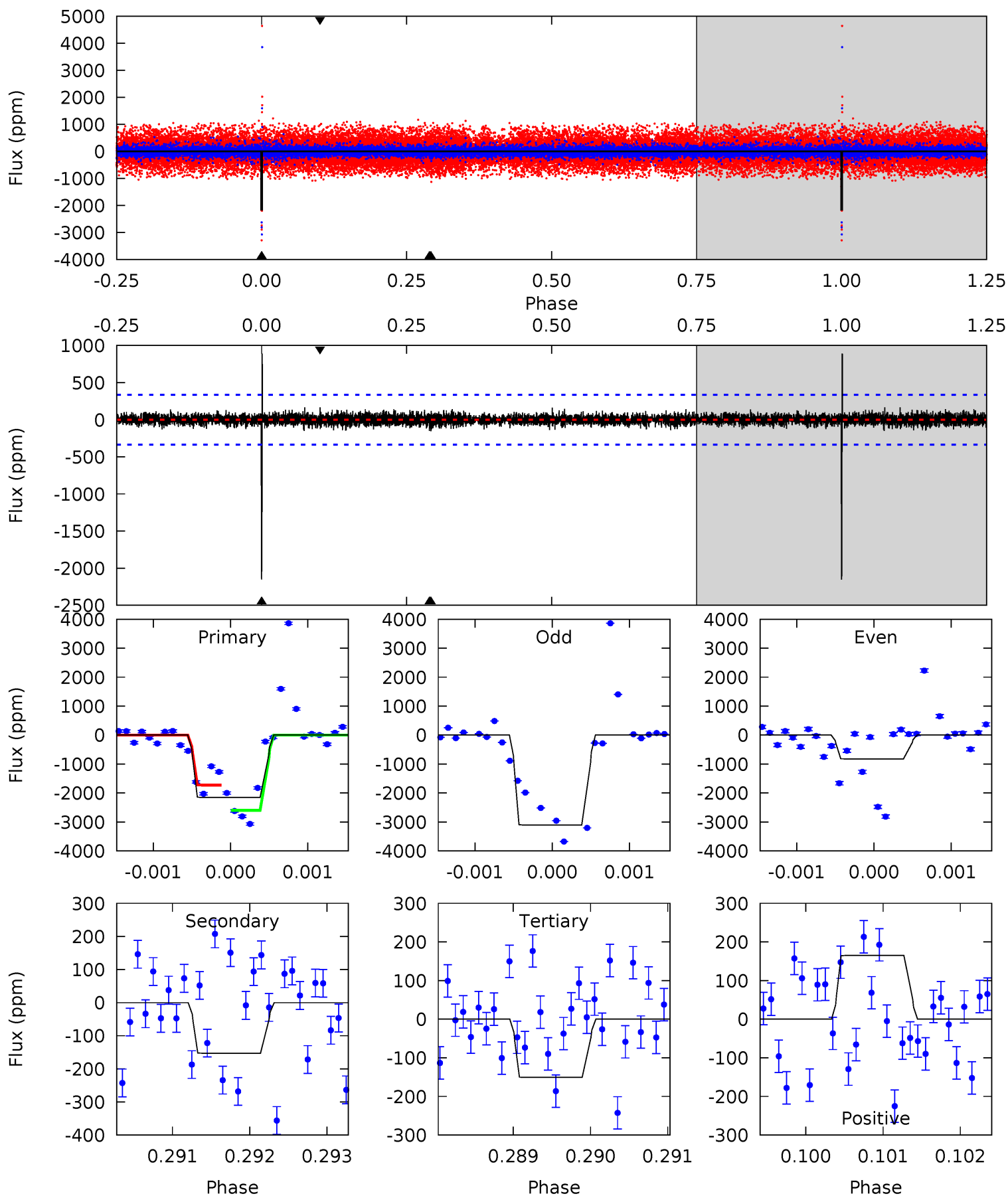
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.47	10.3	9.32	10.9	5.40	3.21	2.76	0.15	-1.45	0.93	-0.67	1.44	1.14	0.52	4.20



Alt Model-Shift Uniqueness Test

006611419-03, P = 289.114440 Days, E = 320.645970 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
34.8	2.47	2.44	2.67	5.43	3.26	0.60	32.4	32.1	0.03	-0.20	24.5	0.74	0.29	0



Stellar Parameters For KIC 006611419

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4588^{+165}_{-165}	$4.608^{+0.052}_{-0.028}$	$-0.220^{+0.300}_{-0.300}$	$0.666^{+0.054}_{-0.059}$	$0.656^{+0.075}_{-0.054}$	$3.134^{+0.726}_{-0.407}$
	+4%/-4%	+1%/-1%	+136%/-136%	+8%/-9%	+11%/-8%	+23%/-13%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006611419-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1044 ± 102	$3.37^{+2.16}_{-1.94}$	266^{+11}_{-10}	4018^{+1751}_{-648}	$28473^{+134430}_{-18069}$
Alt.	-153 ± 62	$3.75^{+2.29}_{-1.99}$	266^{+10}_{-10}	2869^{+721}_{-379}	3295^{+11601}_{-2196}

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 $A_{obs} \gg 1.0$

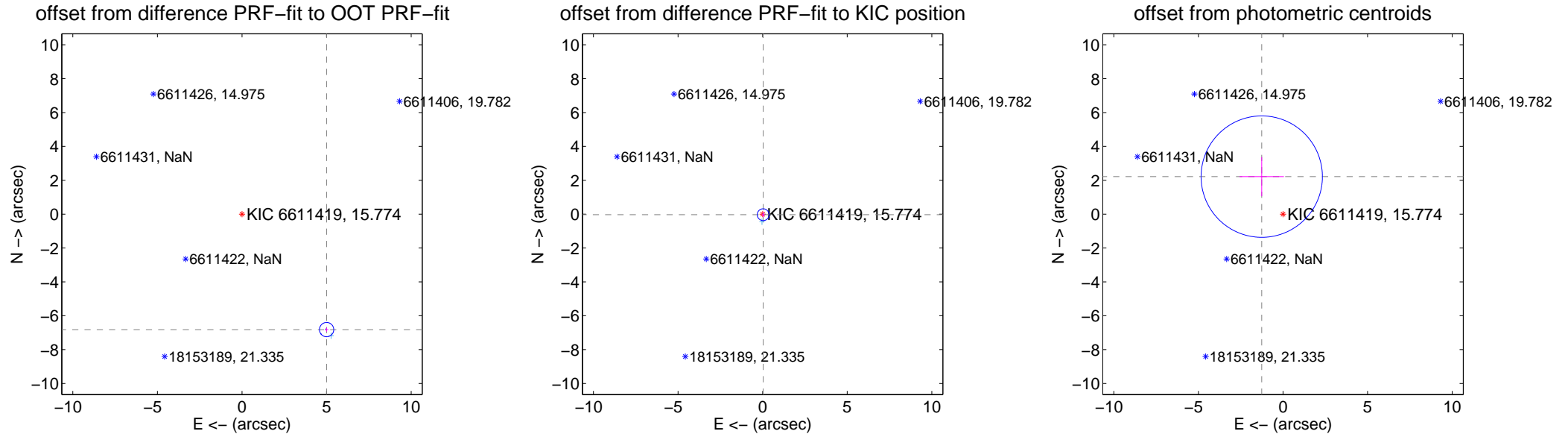
DV Centroid Data

Supplemental centroid analysis for 006611419-03. Kepler magnitude: 15.77. Transit SNR 7.16

There are 2 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 8.57 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.457 ± 0.141	60.10	-5.002 ± 0.103	-6.819 ± 0.117
PRF-fit source offset from KIC position	0.045 ± 0.116	0.38	-0.031 ± 0.075	-0.032 ± 0.145
photometric centroid source offset	2.55 ± 1.20	2.13	1.26 ± 1.31	2.22 ± 1.16

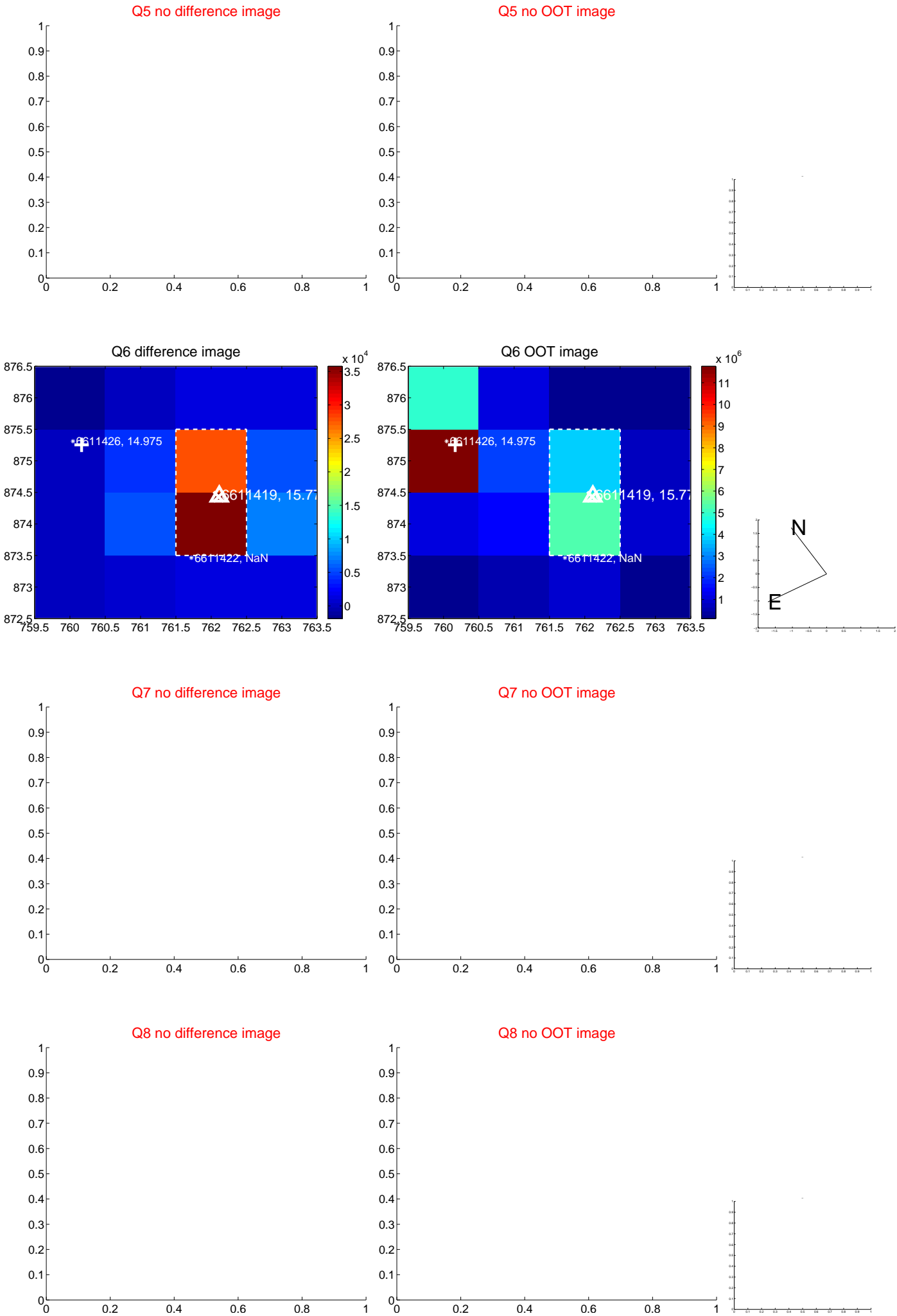


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

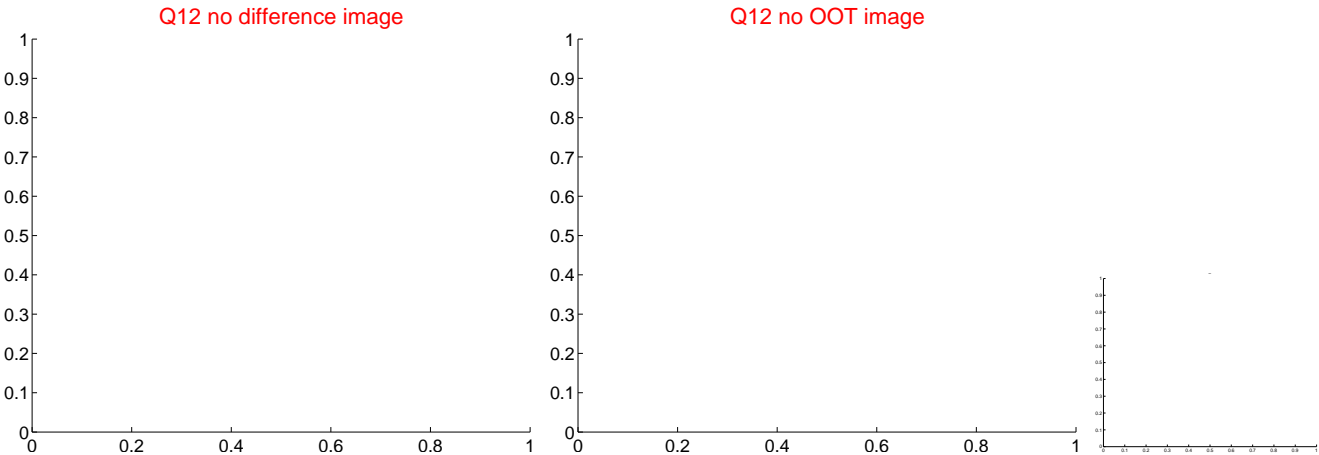
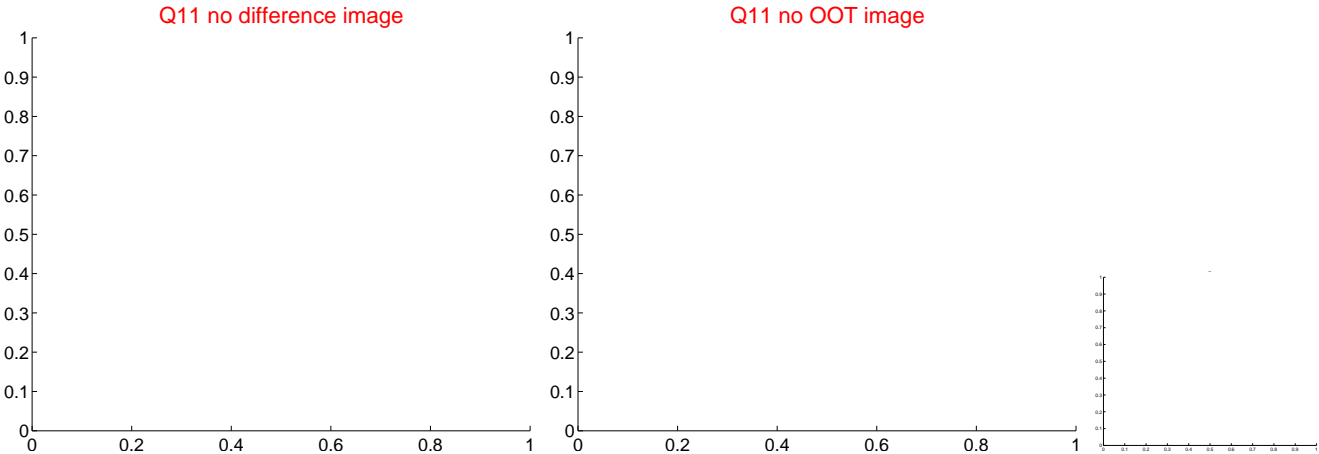
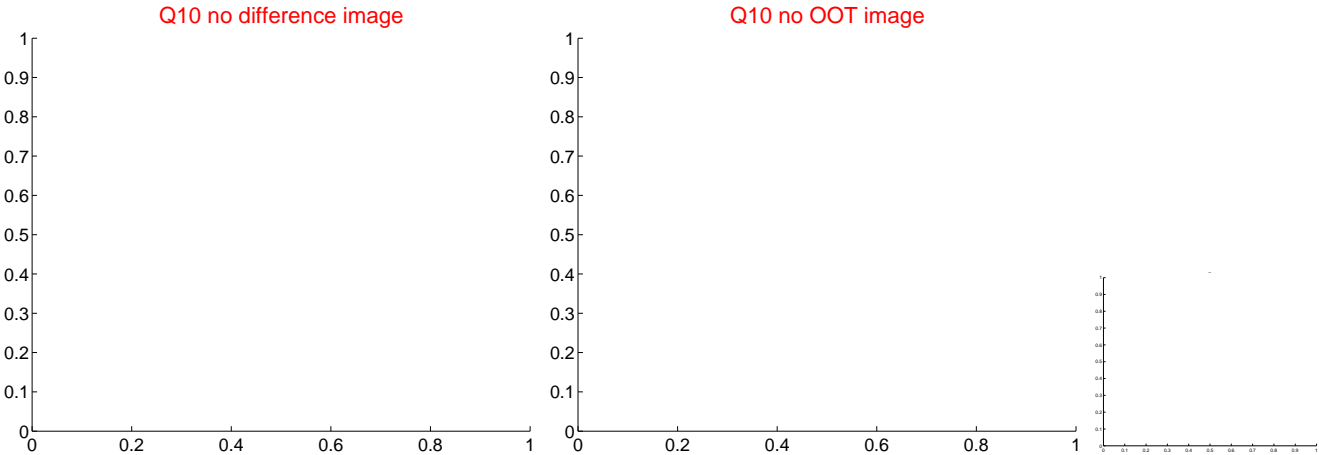
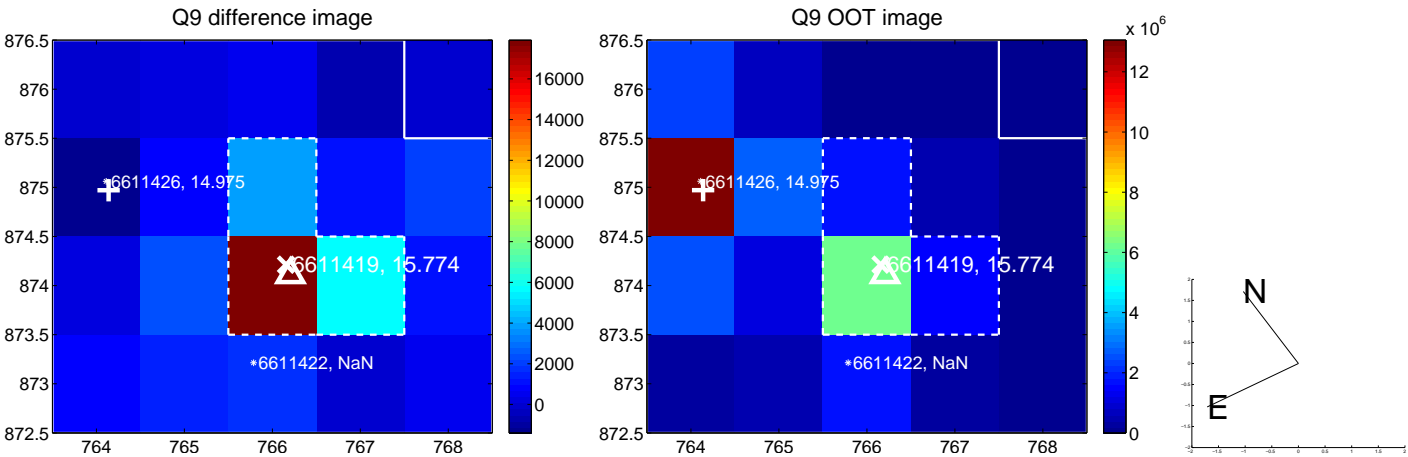
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



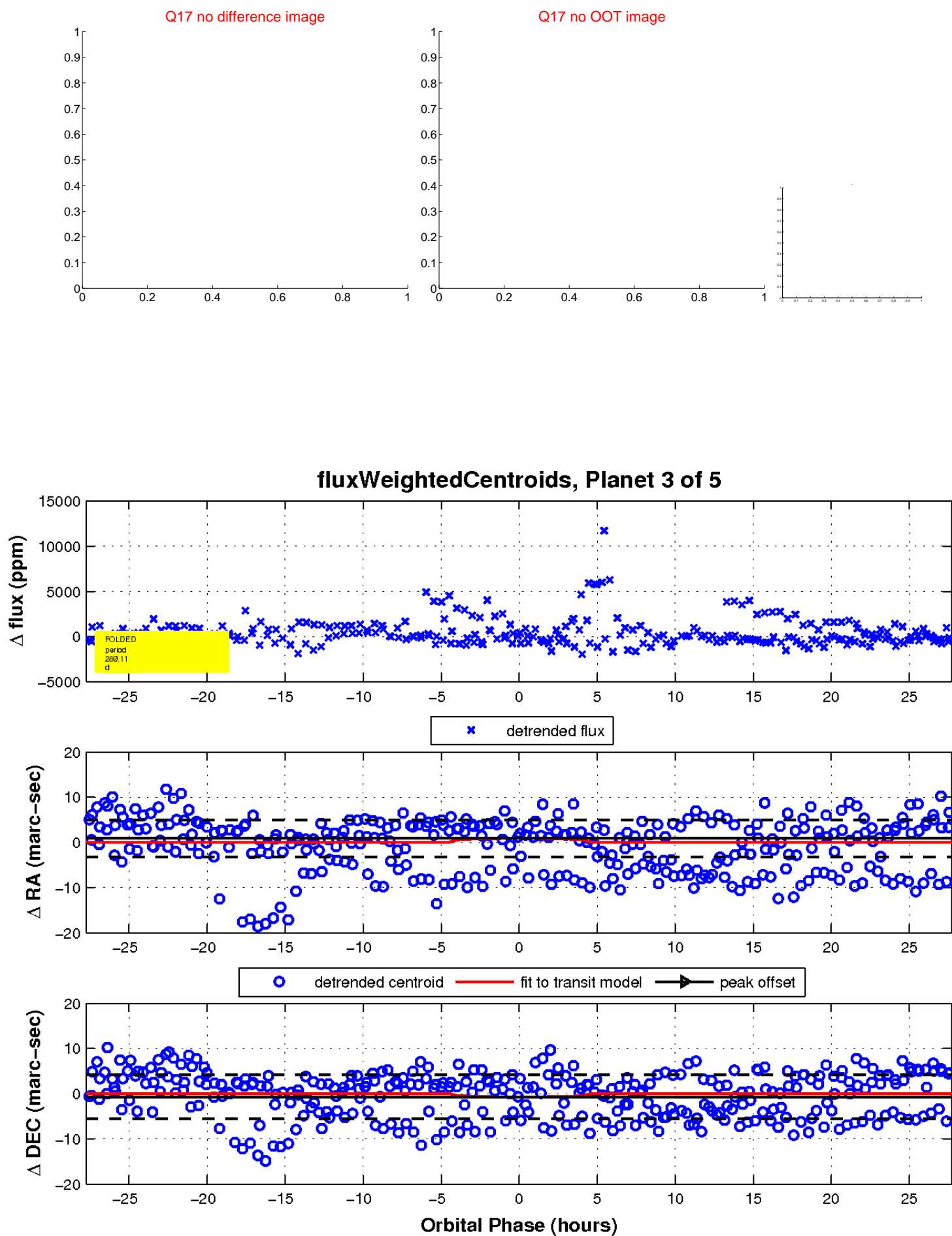
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



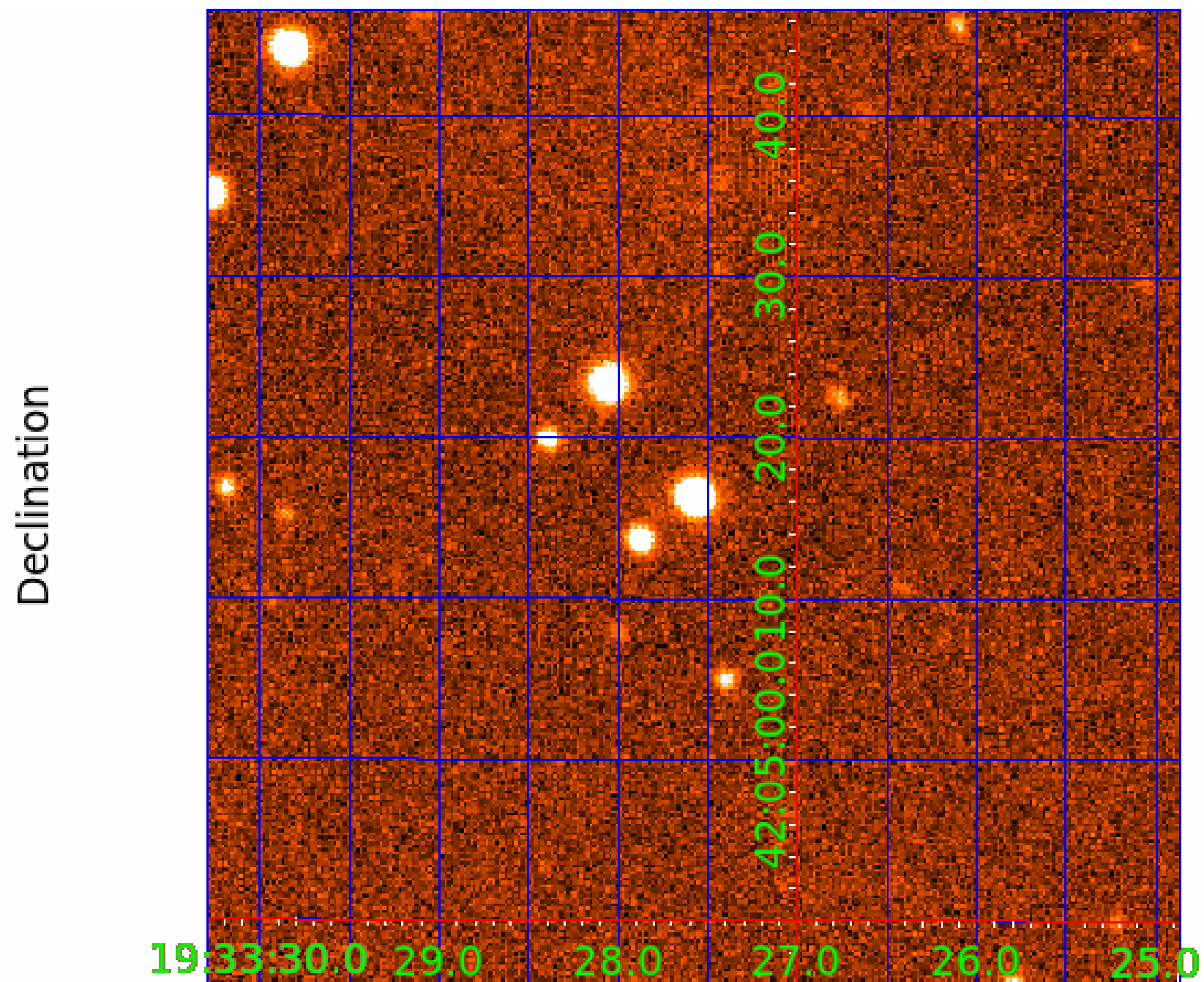
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006611419

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})
006611419-01	OBS	No	263.221716	304.133118	1969.6	8.228	16.3	7.7	0.67	4588	3.72	0.36
006611419-02	OBS	No	416.564131	515.663760	1829.5	15.773	13.3	6.3	0.67	4588	2.73	0.20
006611419-03	OBS	No	289.108928	320.659724	1971.9	9.268	12.0	7.2	0.67	4588	3.04	0.32
006611419-04	OBS	No	501.197979	527.211100	2676.7	10.352	11.8	9.4	0.67	4588	3.34	0.15
006611419-05	OBS	No	244.929148	163.715575	1413.4	6.881	9.1	6.9	0.67	4588	2.59	0.40

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006611419-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006611419-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006611419-03	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—CENT_FEW_DIFFS—HALO_GHOST
006611419-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—CENT_KIC_POS
006611419-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

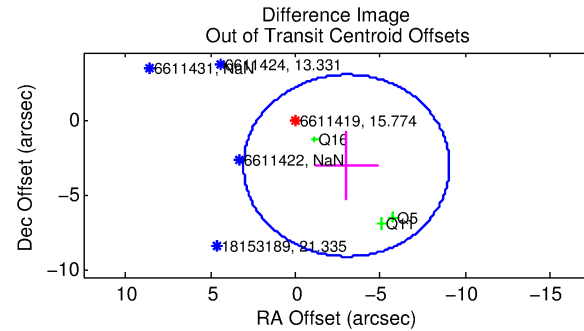
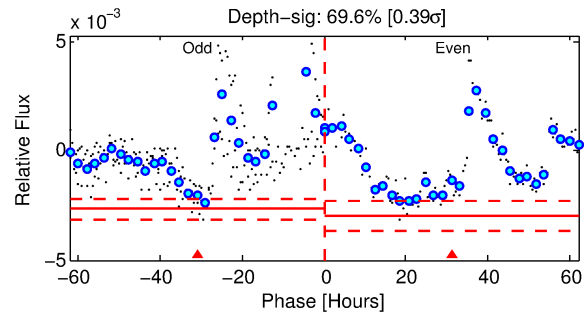
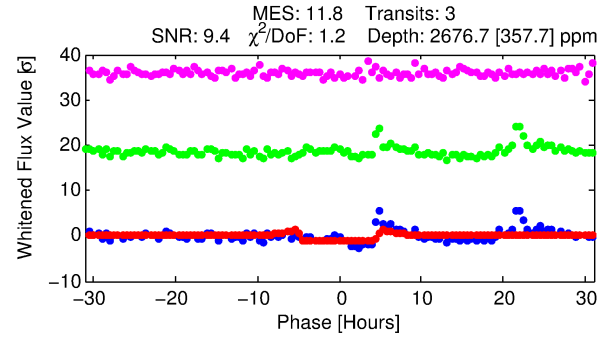
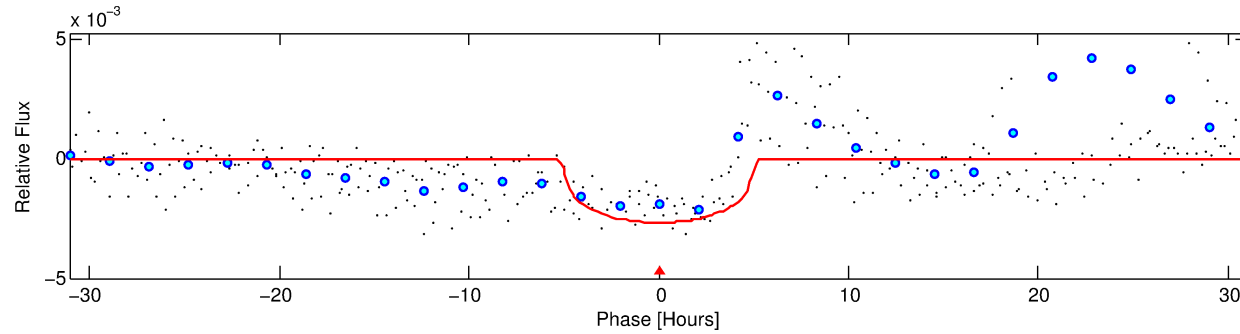
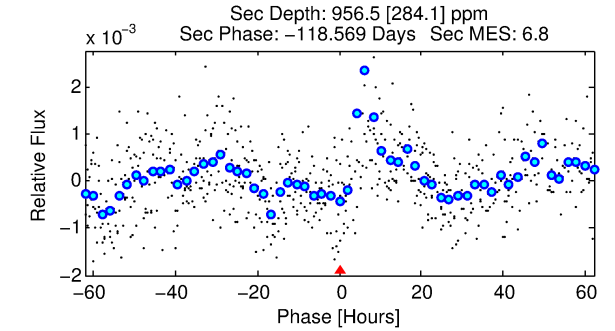
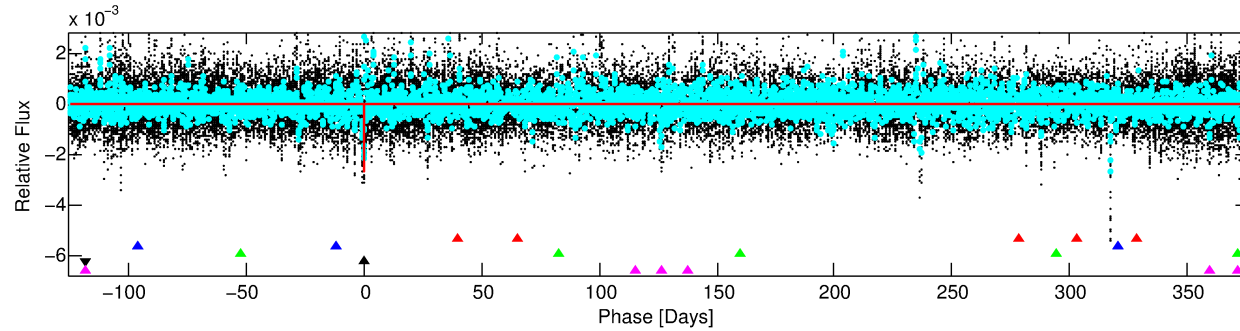
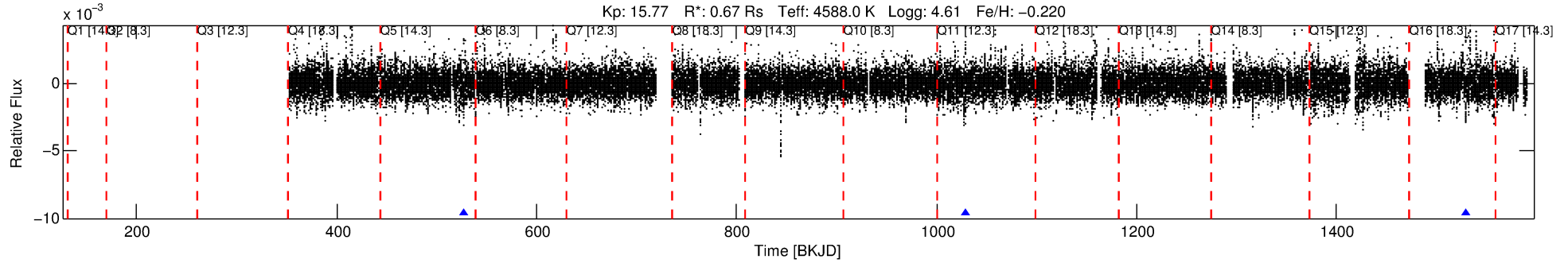
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006611419-04

No Significant Match Found

DV One-Page Summary

KIC: 6611419 Candidate: 4 of 5 Period: 501.198 d



DV Fit Results:

Period = 501.19798 [0.00666] d
Epoch = 527.2111 [0.0081] BKJD
Rp/R* = 0.0459 [0.0184]
a/R* = 374.08 [443.76]
b = 0.27 [4.19]
Seff = 0.15 [0.03]
Teq = 159 [7] K
Rp = 3.34 [1.37] Re
a = 1.0732 [0.0765] AU
Ag = 54407.96 [46767.84] [1.16 σ]
Teffp = 3765 [815] K [4.42 σ]

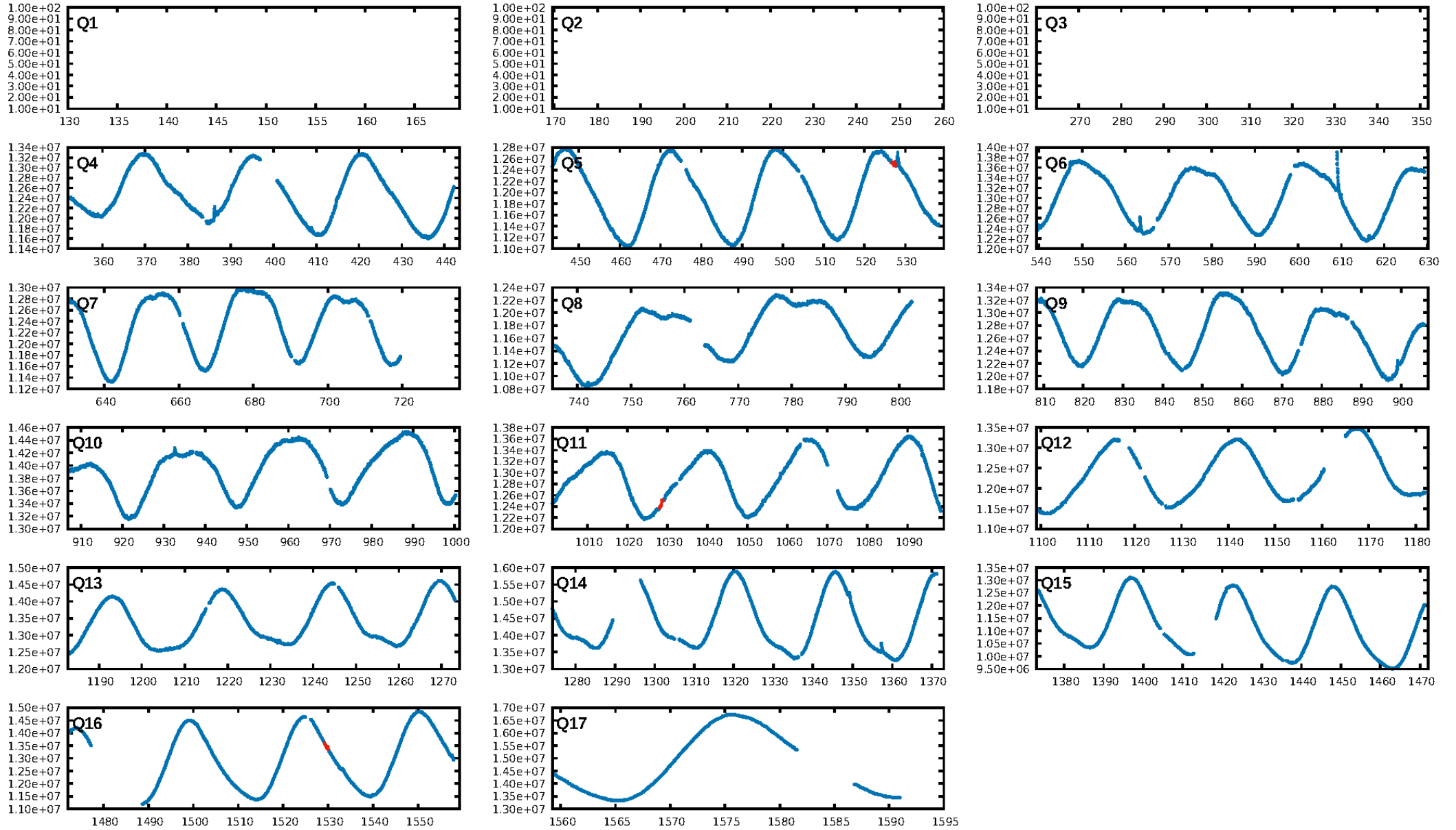
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [107.66 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 47.7%
ModelChiSquareGof-sig: 99.2%
Bootstrap-pfa: 1.23e-14
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.6015
Centroid-sig: 21.3%
Centroid-so: 1.352 arcsec [1.16 σ]
OotOffset-rm: 4.305 arcsec [2.13 σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-rm: 0.040 arcsec [0.23 σ]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

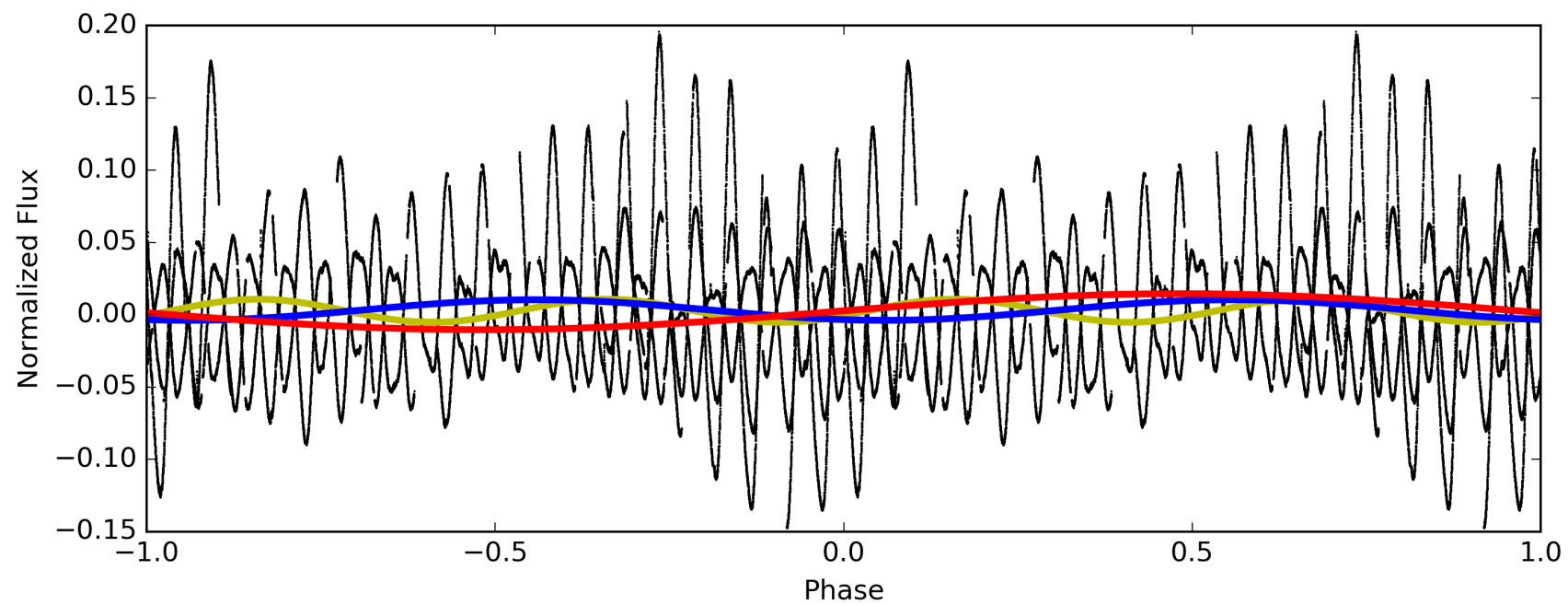
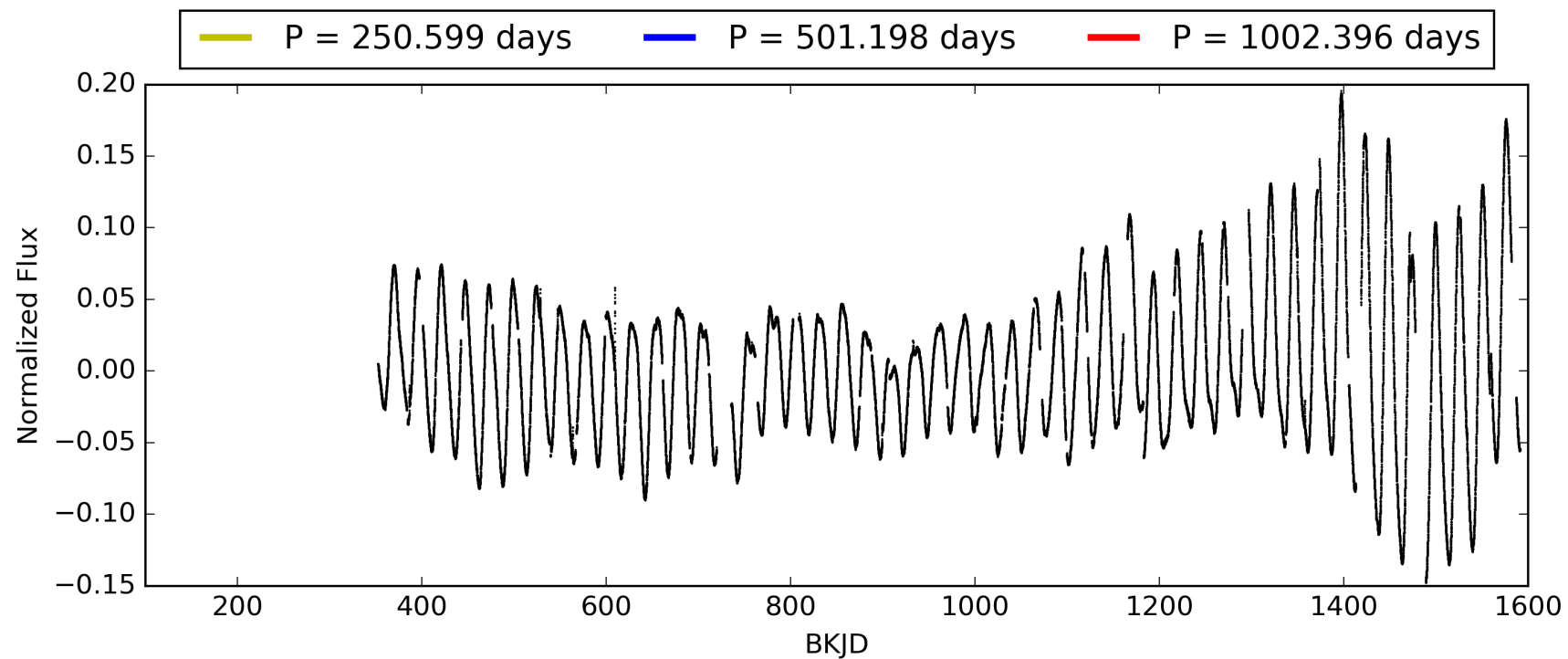
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:38:34 Z

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

TCE 006611419-04, PDC Light Curves

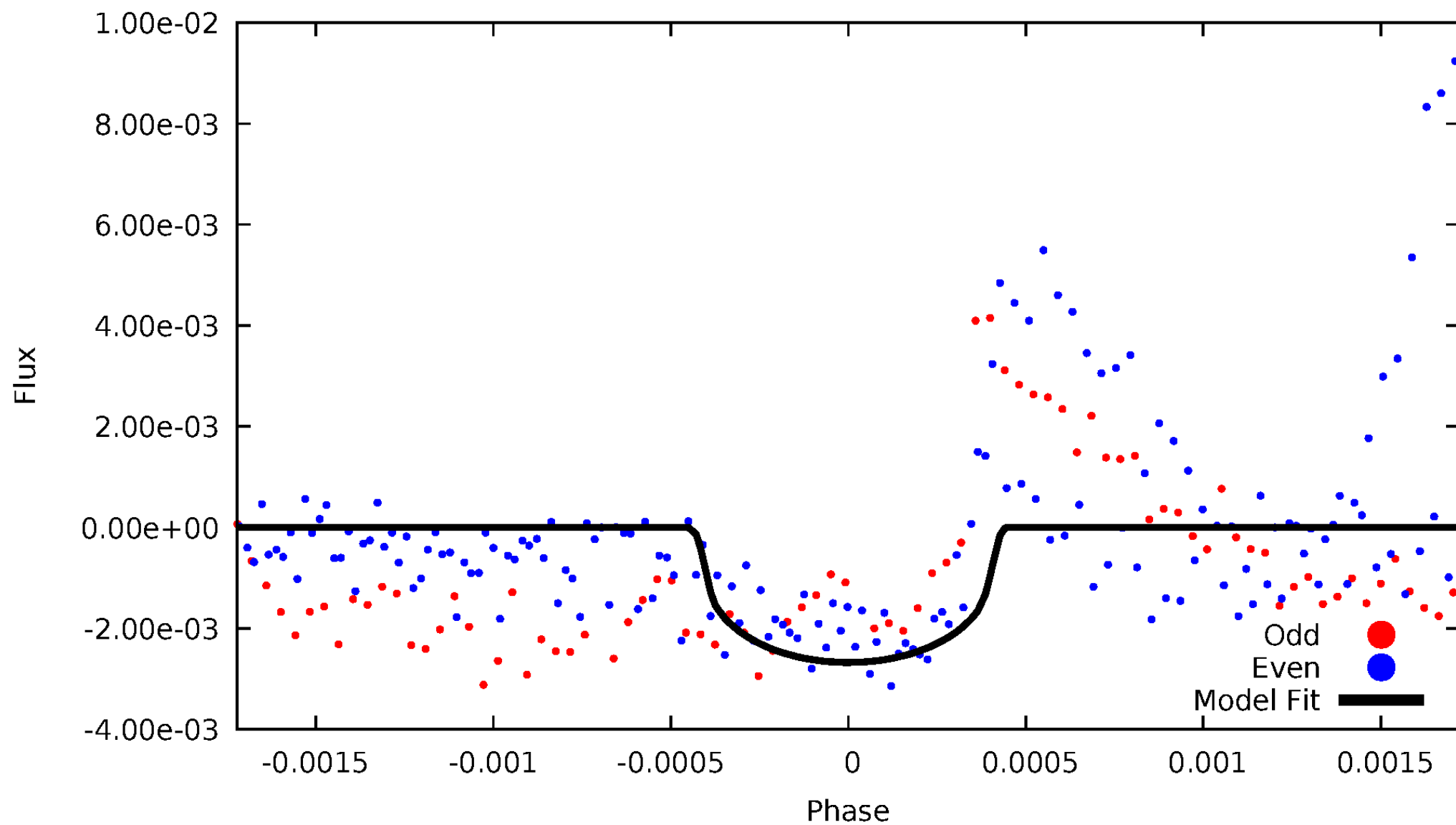


TCE 006611419-04



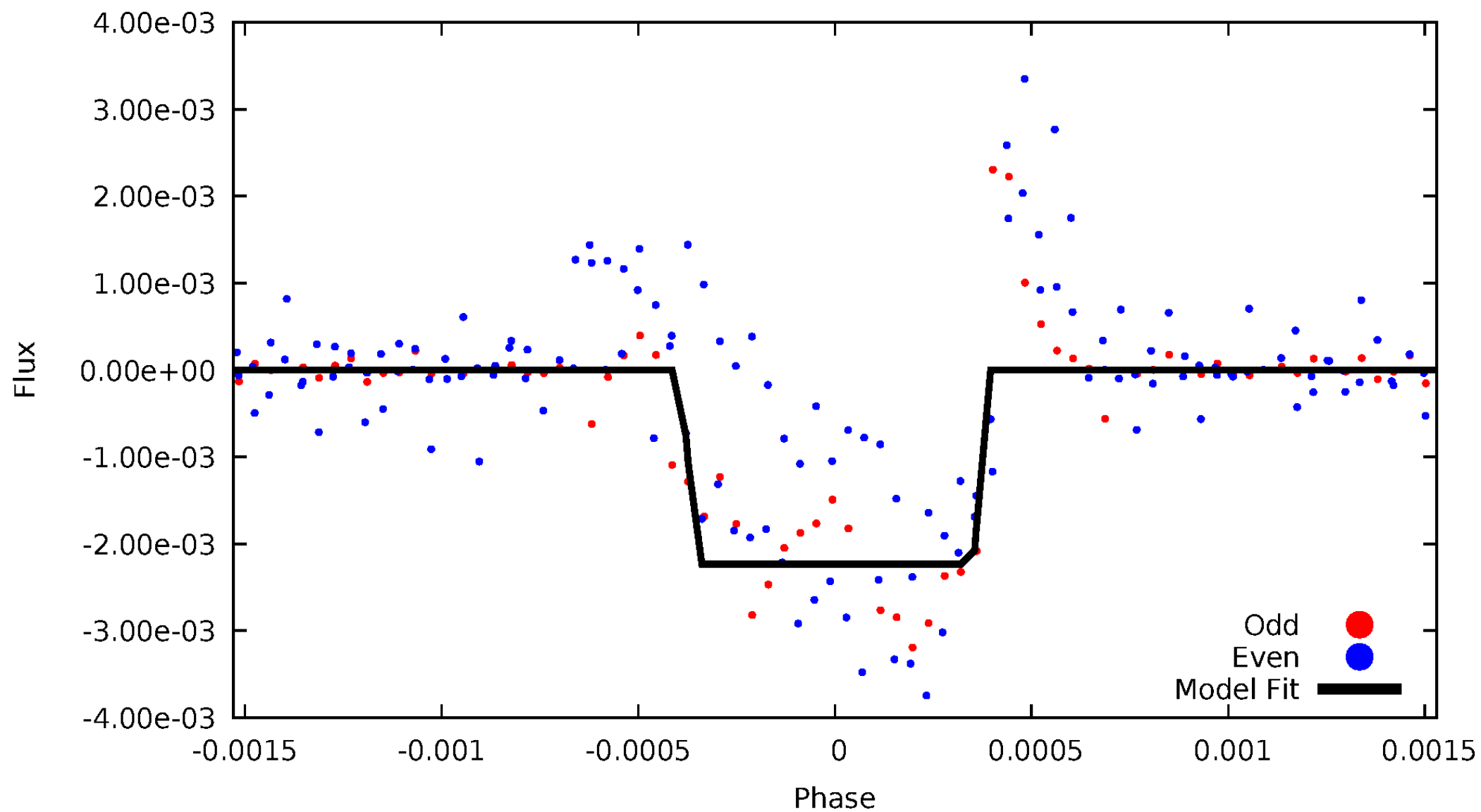
DV Odd/Even

TCE 006611419-04



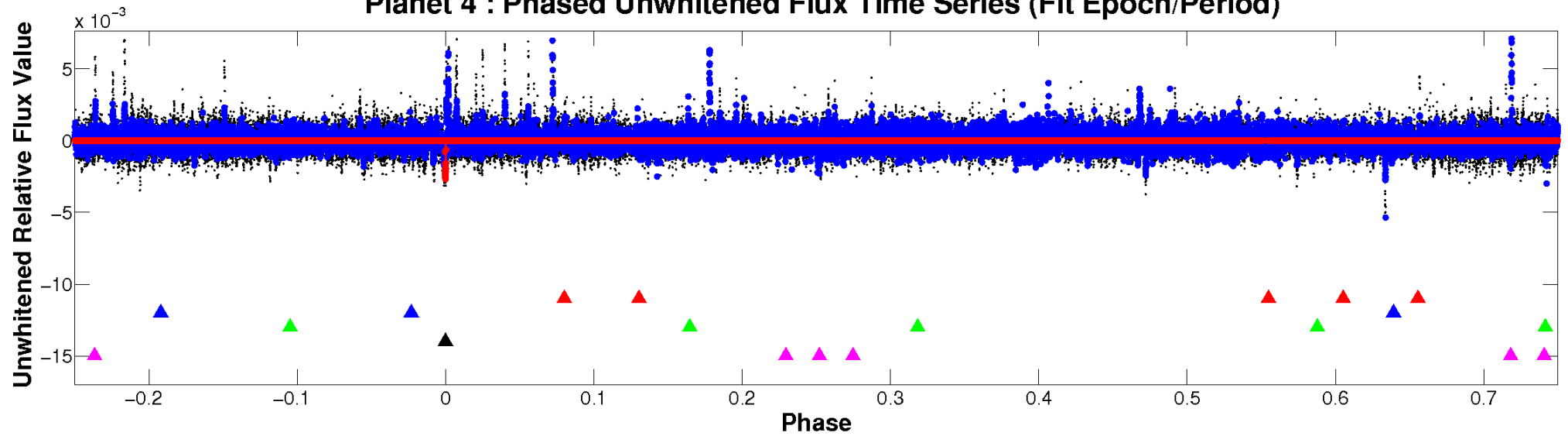
ALT Odd/Even

TCE 006611419-04

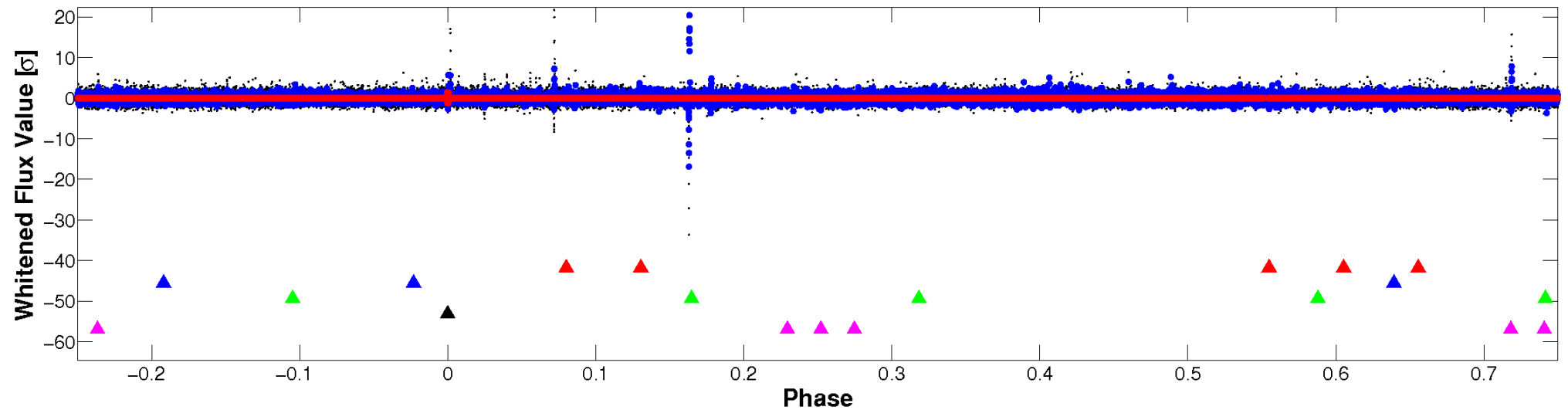


Non-Whitened Vs. Whitened Light Curve

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

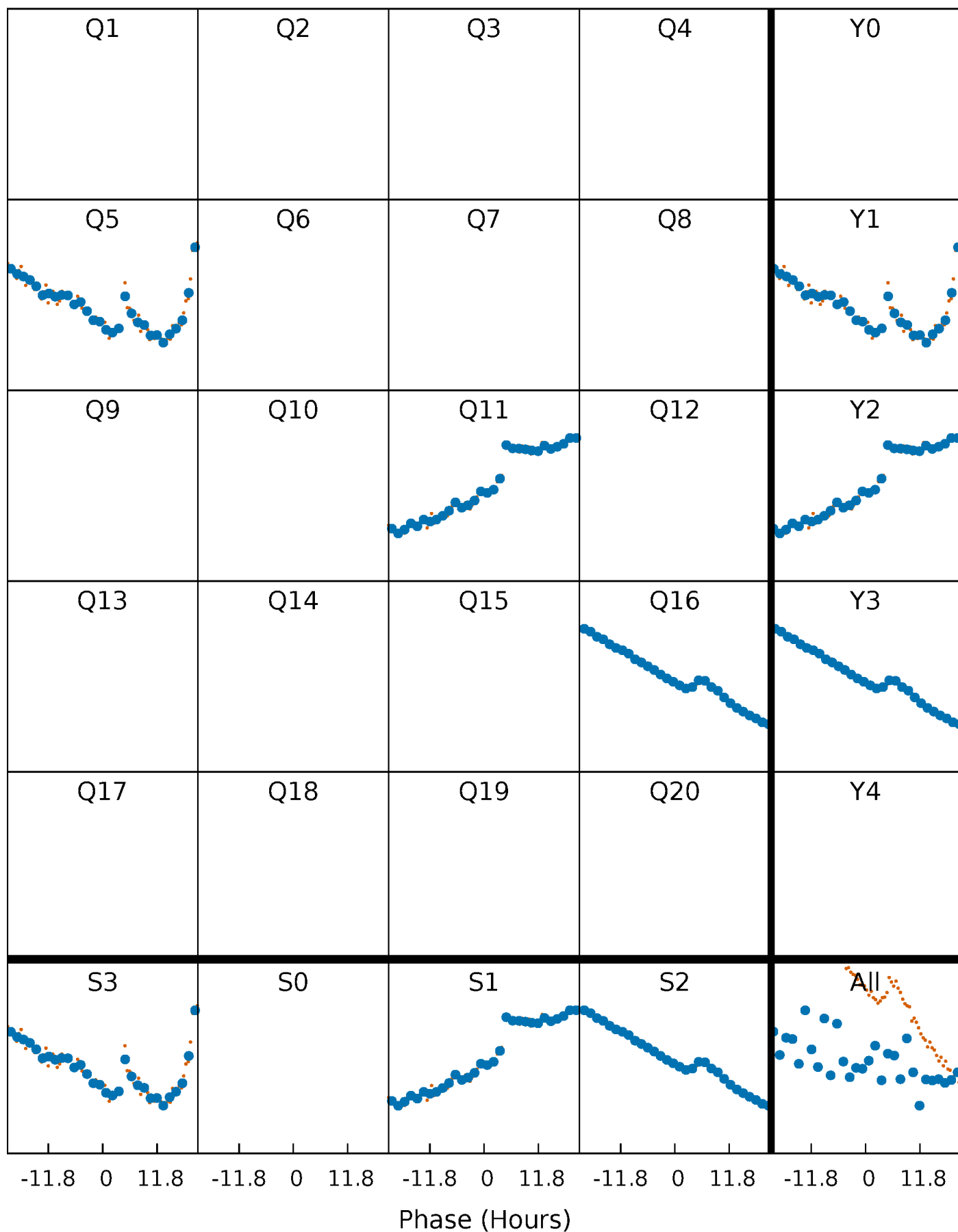


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



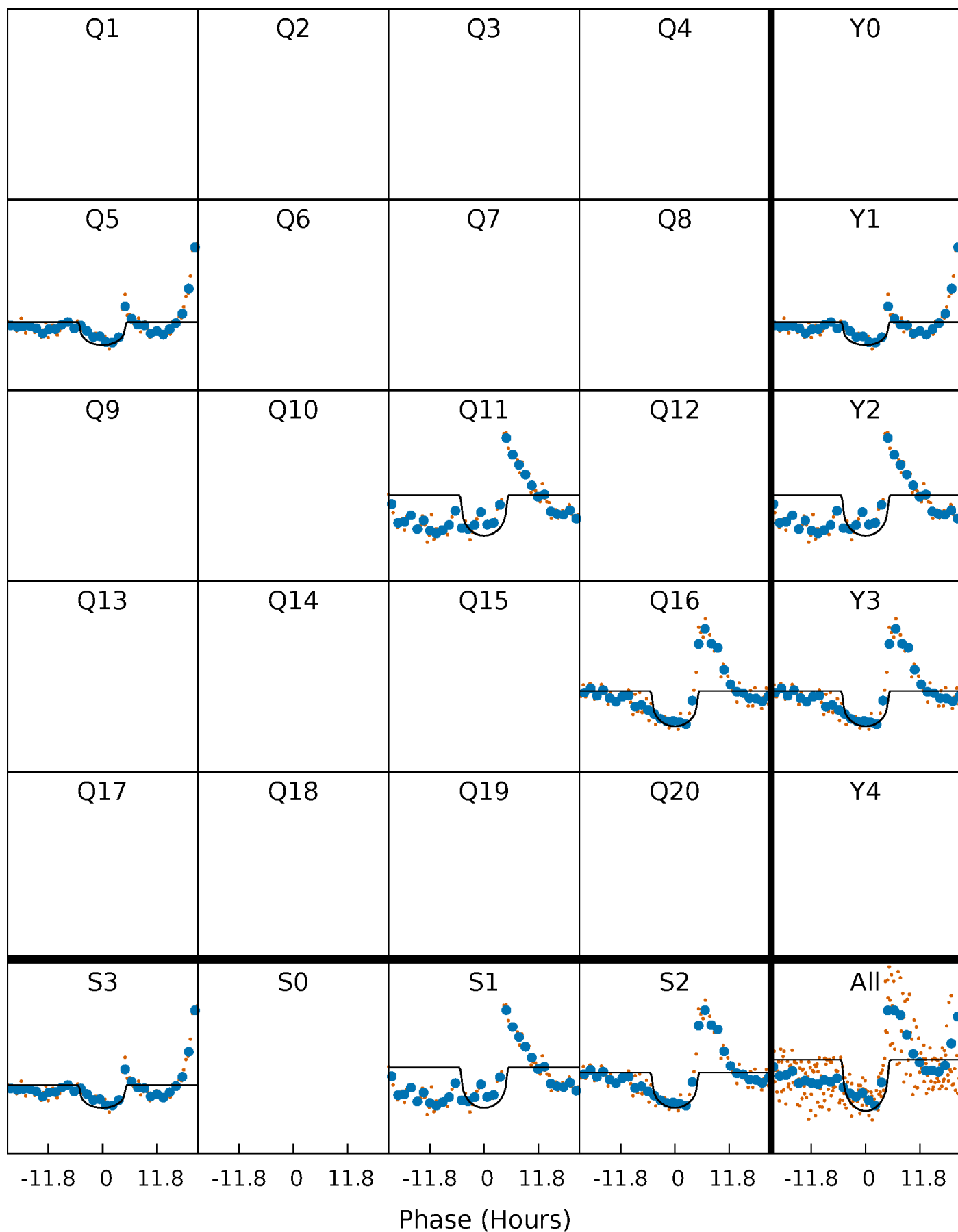
PDC Quarter-Phased Transit Curves

TCE 006611419-04 P=501.197979 Days $T_0=527.211100$ (BKJD)



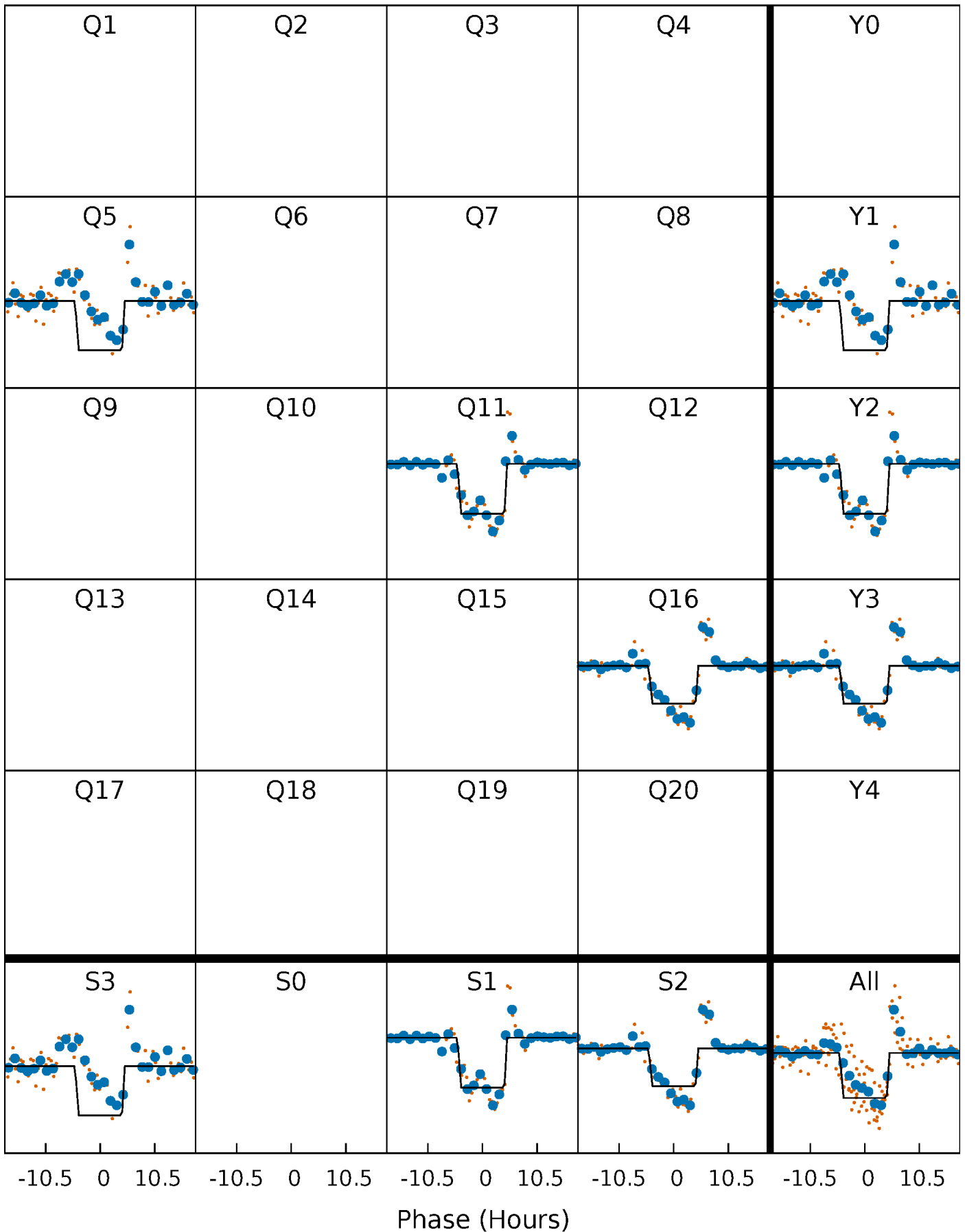
DV Quarter-Phased Transit Curves

TCE 006611419-04 P=501.197979 Days $T_0=527.211100$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

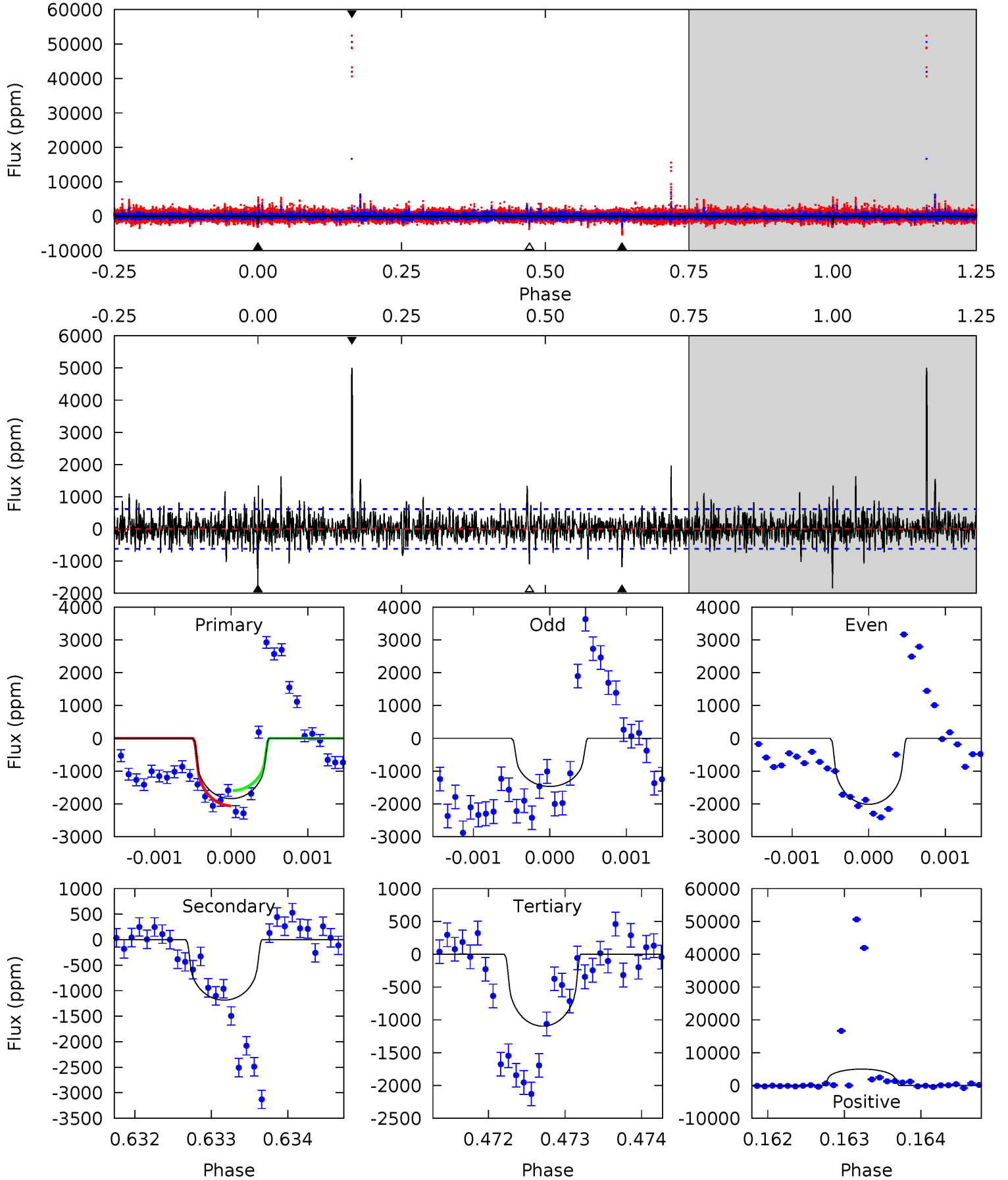
TCE 006611419-04 P=501.214793 Days $T_0=527.172801$ (BKJD)



DV Model-Shift Uniqueness Test

006611419-04, P = 501.197979 Days, E = 26.013121 Days

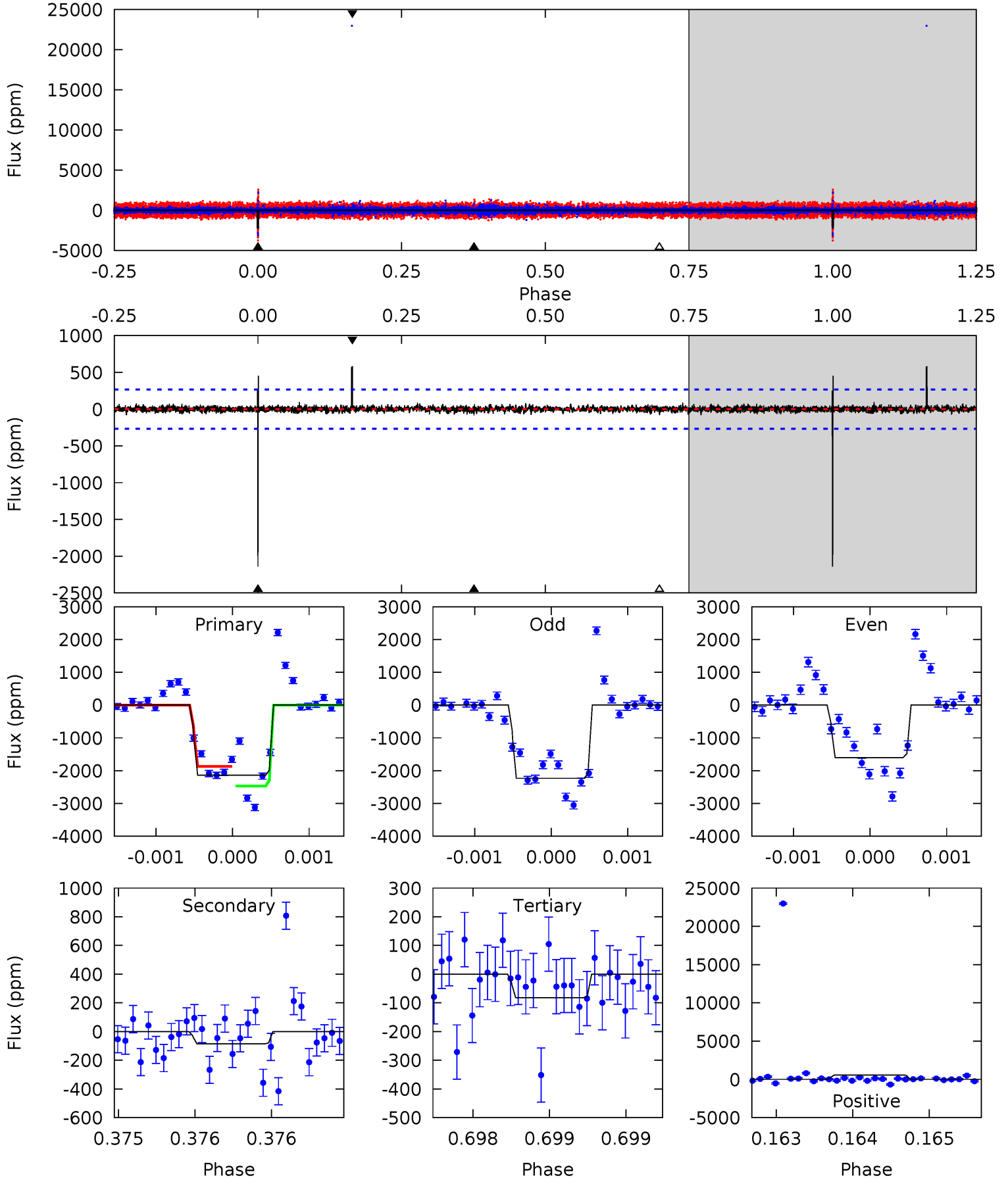
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.3	10.5	9.71	44.3	5.47	3.32	2.89	6.60	-28.0	0.79	-33.8	2.20	1.02	0.73	2.03



Alt Model-Shift Uniqueness Test

006611419-04, P = 501.214793 Days, E = 25.958008 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
44.1	1.77	1.69	12.1	5.50	3.37	0.55	42.5	32.1	0.08	-10.3	7.31	0.82	0.21	6.13



Stellar Parameters For KIC 006611419

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4588^{+165}_{-165}	$4.608^{+0.052}_{-0.028}$	$-0.220^{+0.300}_{-0.300}$	$0.666^{+0.054}_{-0.059}$	$0.656^{+0.075}_{-0.054}$	$3.134^{+0.726}_{-0.407}$
	+4%/-4%	+1%/-1%	+136%/-136%	+8%/-9%	+11%/-8%	+23%/-13%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006611419-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1185 ± 113	$3.35^{+1.37}_{-1.34}$	222^{+9}_{-8}	4120^{+949}_{-488}	$67560^{+118013}_{-33866}$
Alt.	-86 ± 48	$3.42^{+1.31}_{-1.35}$	221^{+8}_{-9}	2709^{+431}_{-327}	4381^{+8194}_{-2821}

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 $A_{obs} \gg 1.0$

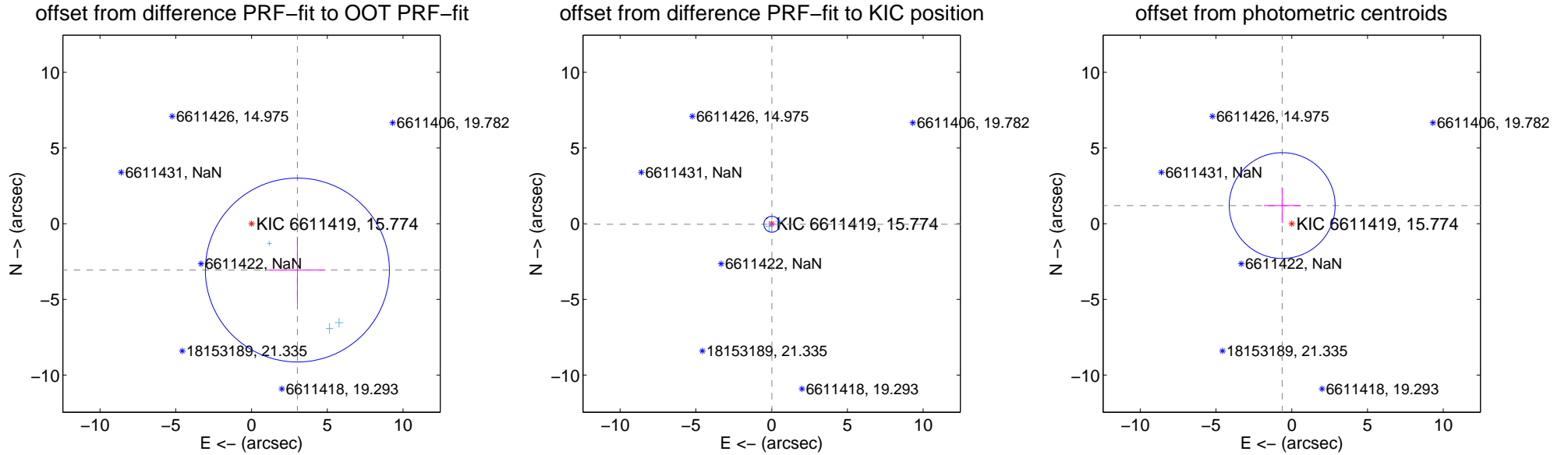
DV Centroid Data

Supplemental centroid analysis for 006611419-04. Kepler magnitude: 15.77. Transit SNR 9.35

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 1.74 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.305 ± 2.024	2.13	-3.026 ± 1.826	-3.063 ± 2.200
PRF-fit source offset from KIC position	0.040 ± 0.175	0.23	-0.013 ± 0.149	-0.038 ± 0.178
photometric centroid source offset	1.35 ± 1.16	1.16	0.63 ± 1.21	1.20 ± 1.15

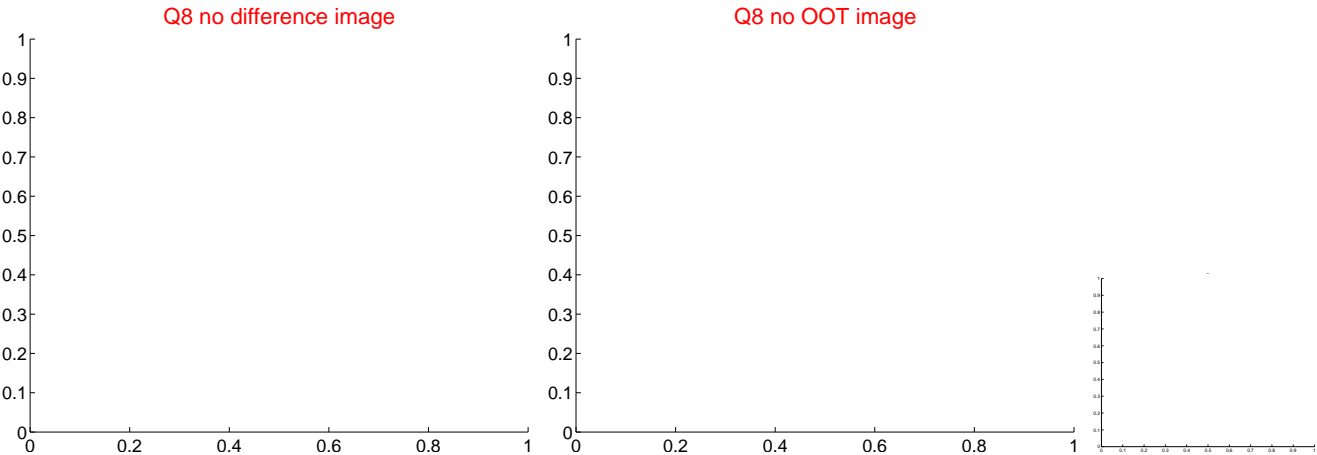
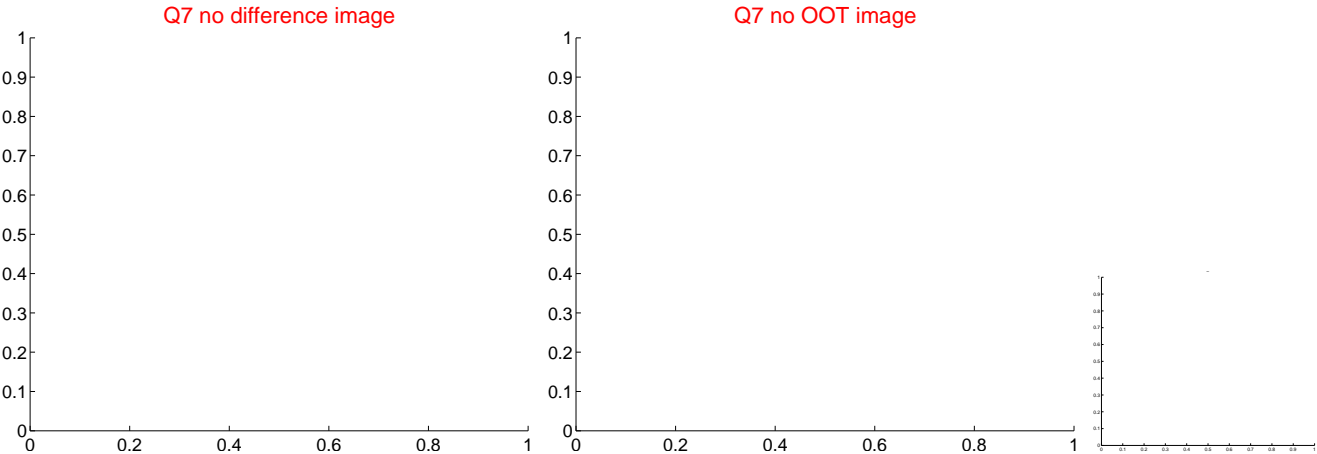
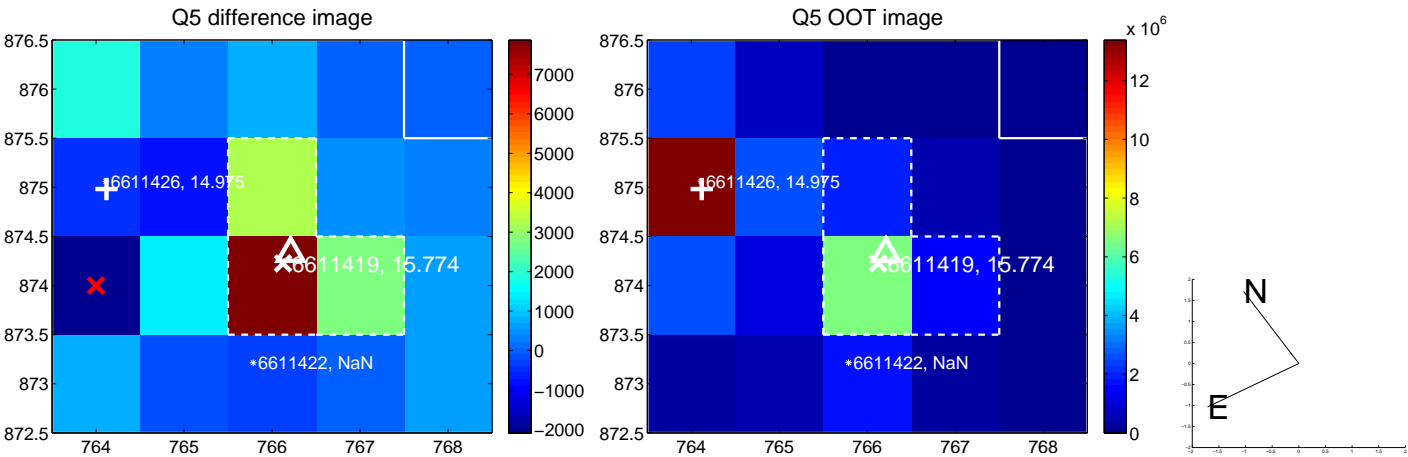


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

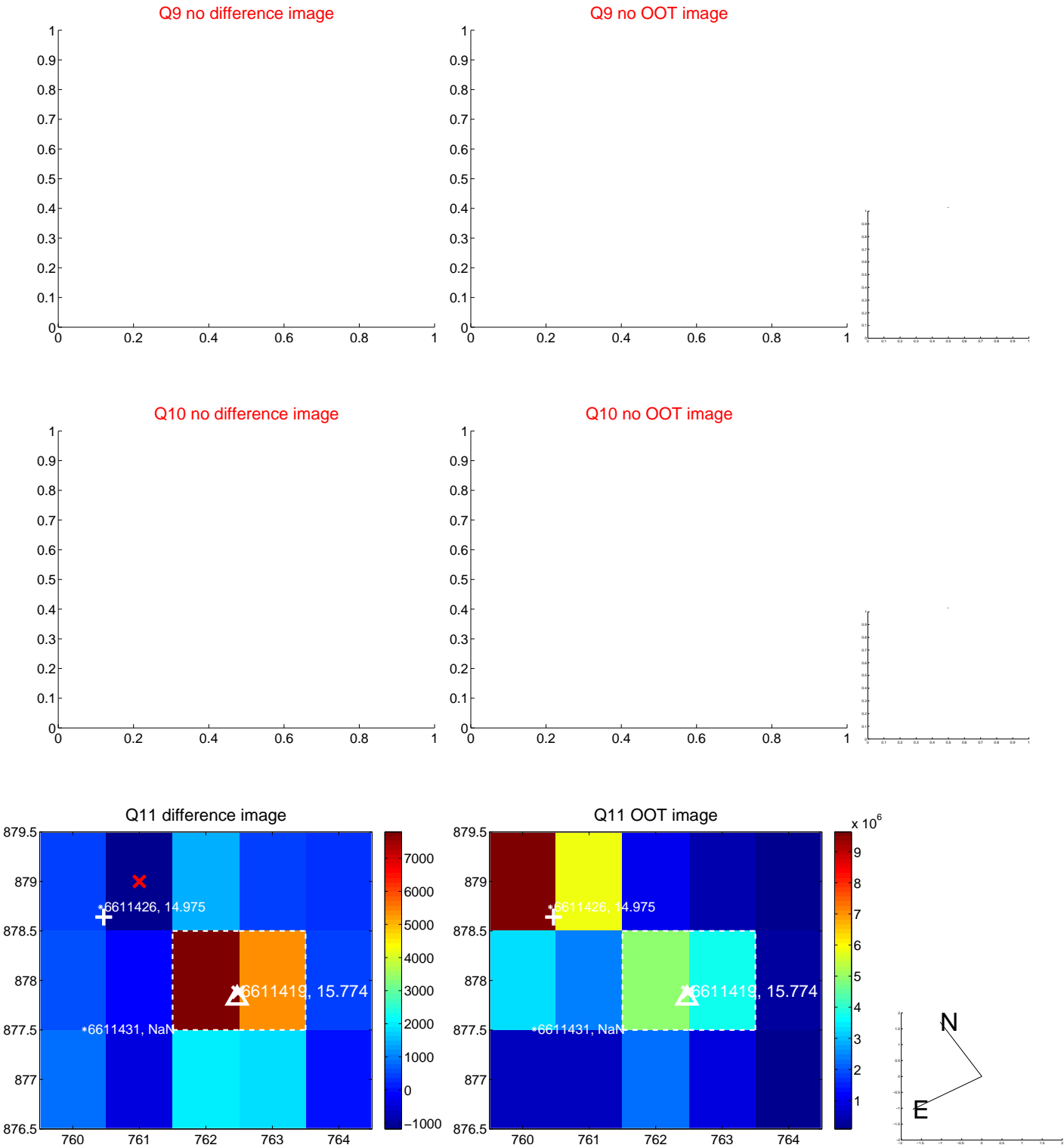
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



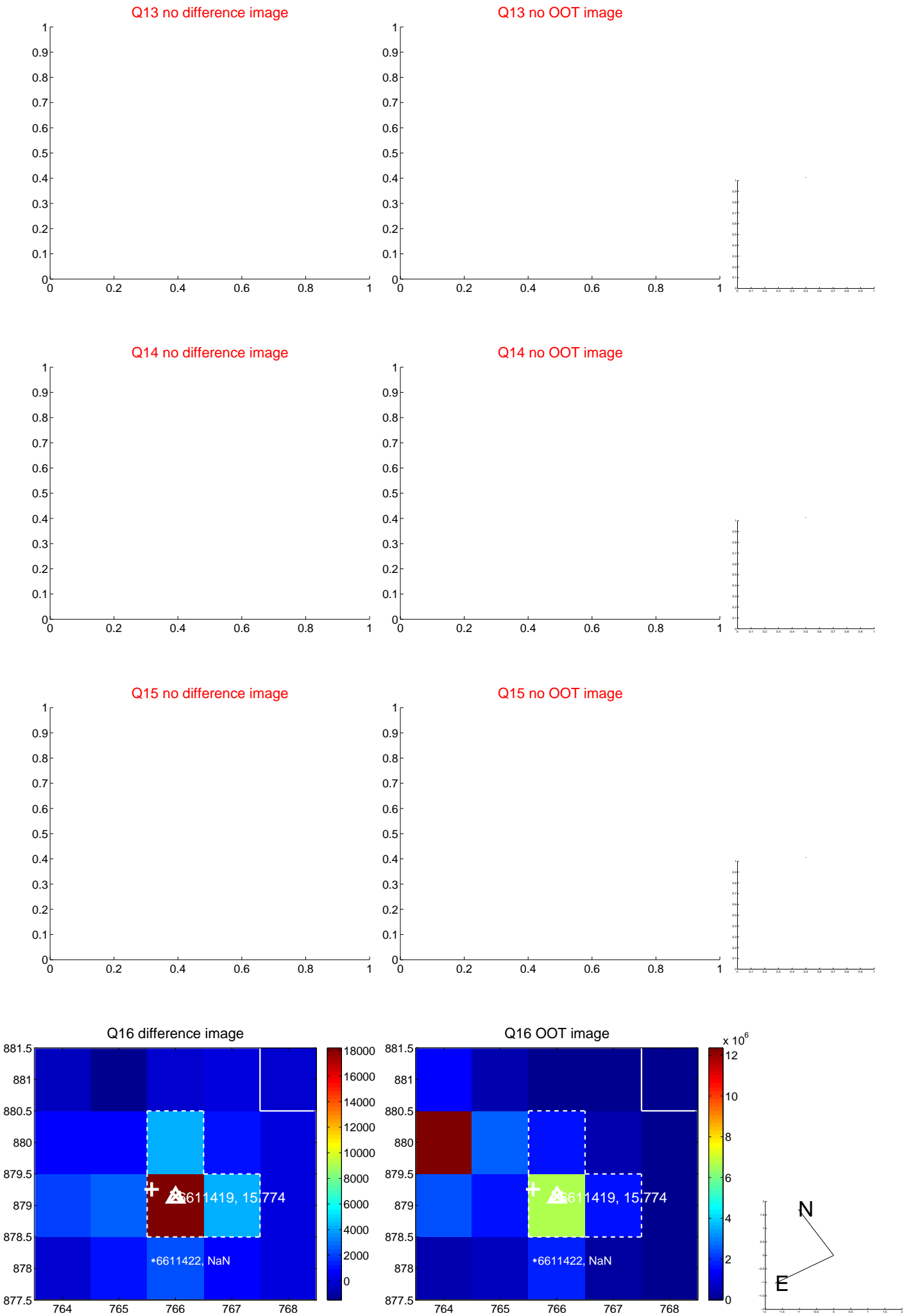
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



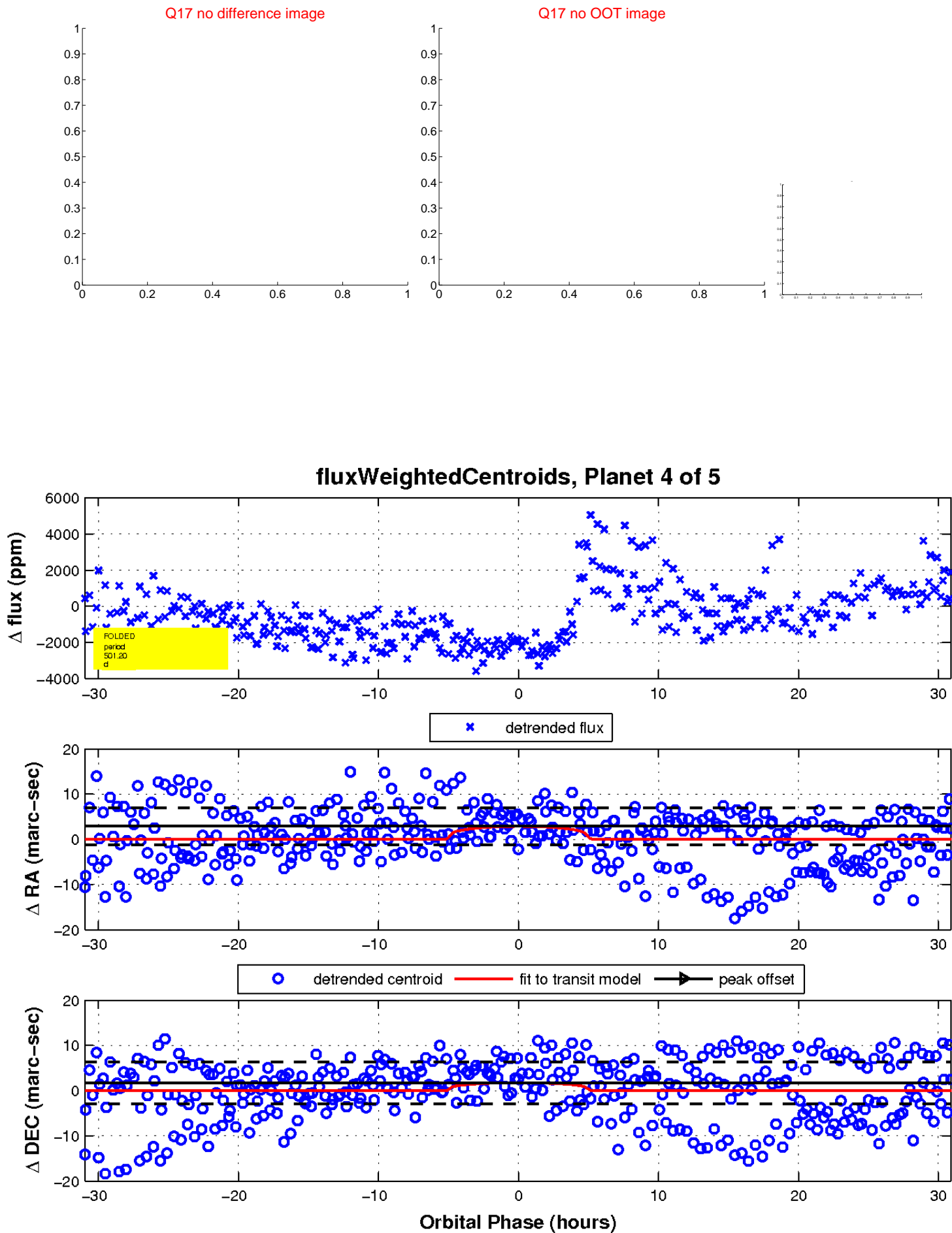
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



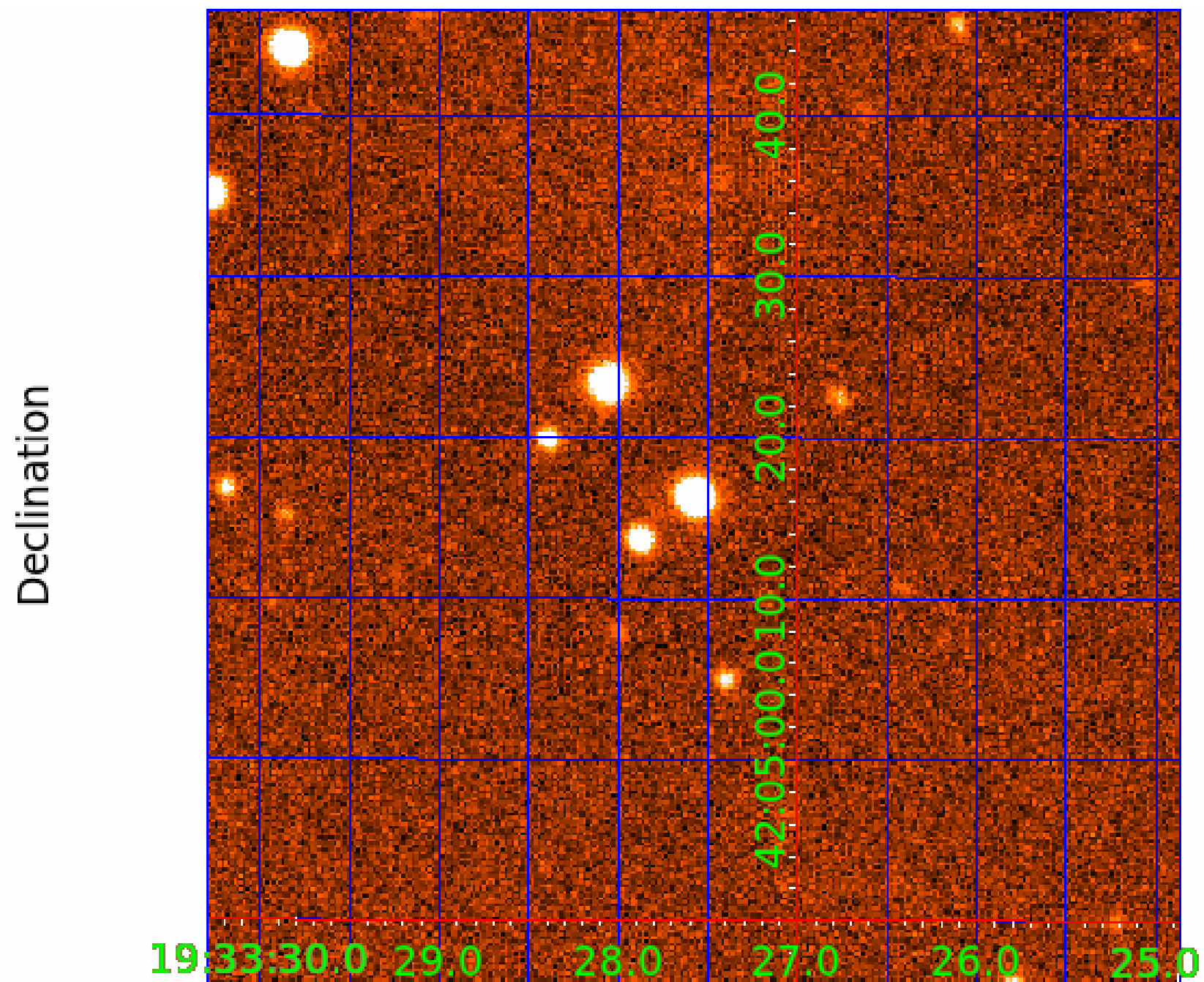
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006611419

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})
006611419-01	OBS	No	263.221716	304.133118	1969.6	8.228	16.3	7.7	0.67	4588	3.72	0.36
006611419-02	OBS	No	416.564131	515.663760	1829.5	15.773	13.3	6.3	0.67	4588	2.73	0.20
006611419-03	OBS	No	289.108928	320.659724	1971.9	9.268	12.0	7.2	0.67	4588	3.04	0.32
006611419-04	OBS	No	501.197979	527.211100	2676.7	10.352	11.8	9.4	0.67	4588	3.34	0.15
006611419-05	OBS	No	244.929148	163.715575	1413.4	6.881	9.1	6.9	0.67	4588	2.59	0.40

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006611419-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006611419-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006611419-03	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—CENT_FEW_DIFFS—HALO_GHOST
006611419-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—CENT_KIC_POS
006611419-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

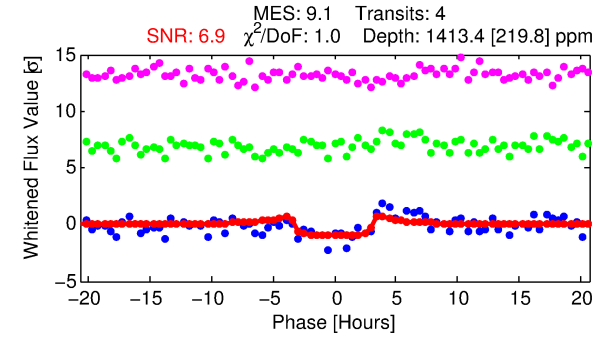
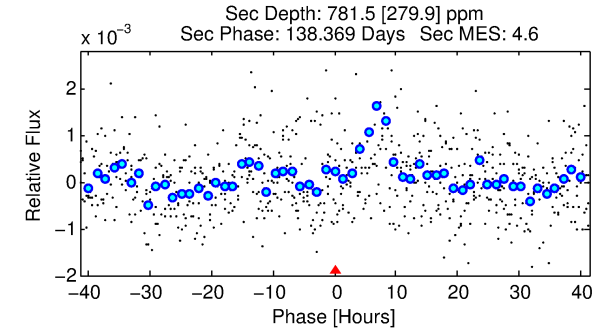
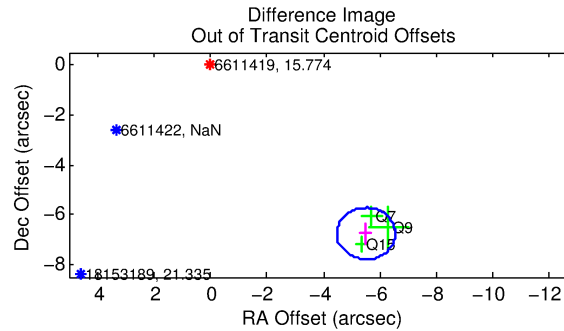
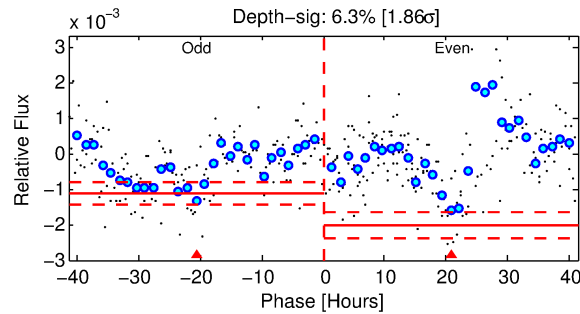
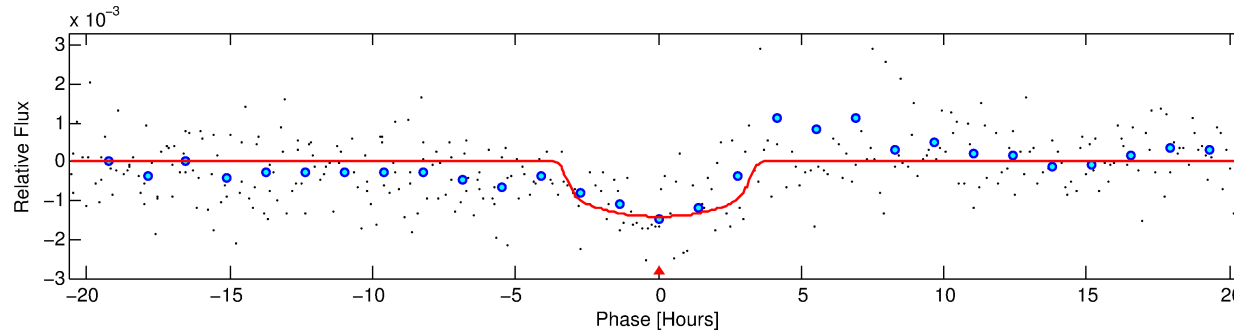
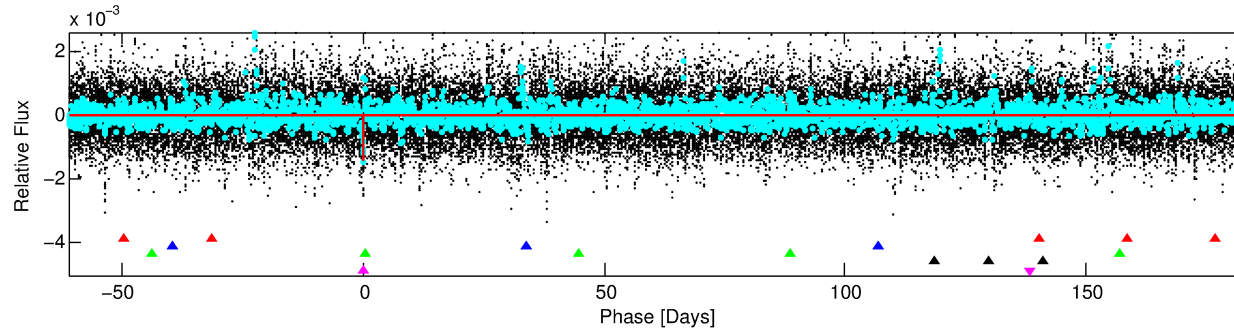
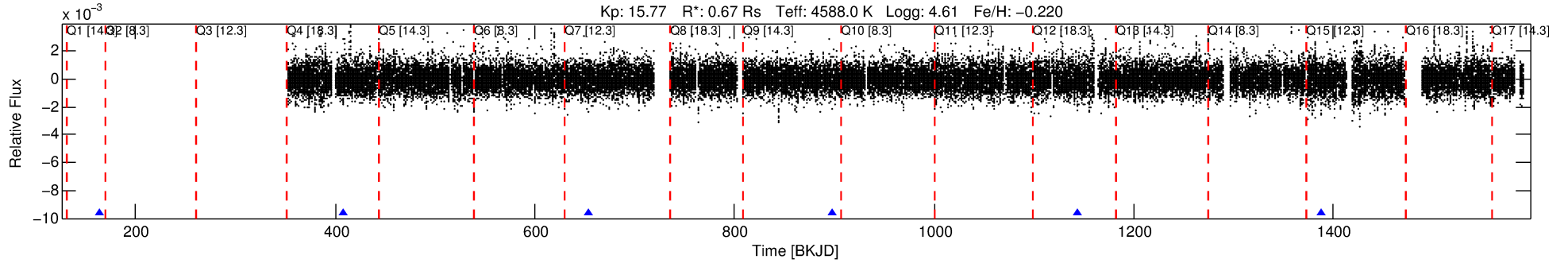
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006611419-05

No Significant Match Found

DV One-Page Summary

KIC: 6611419 Candidate: 5 of 5 Period: 244.929 d



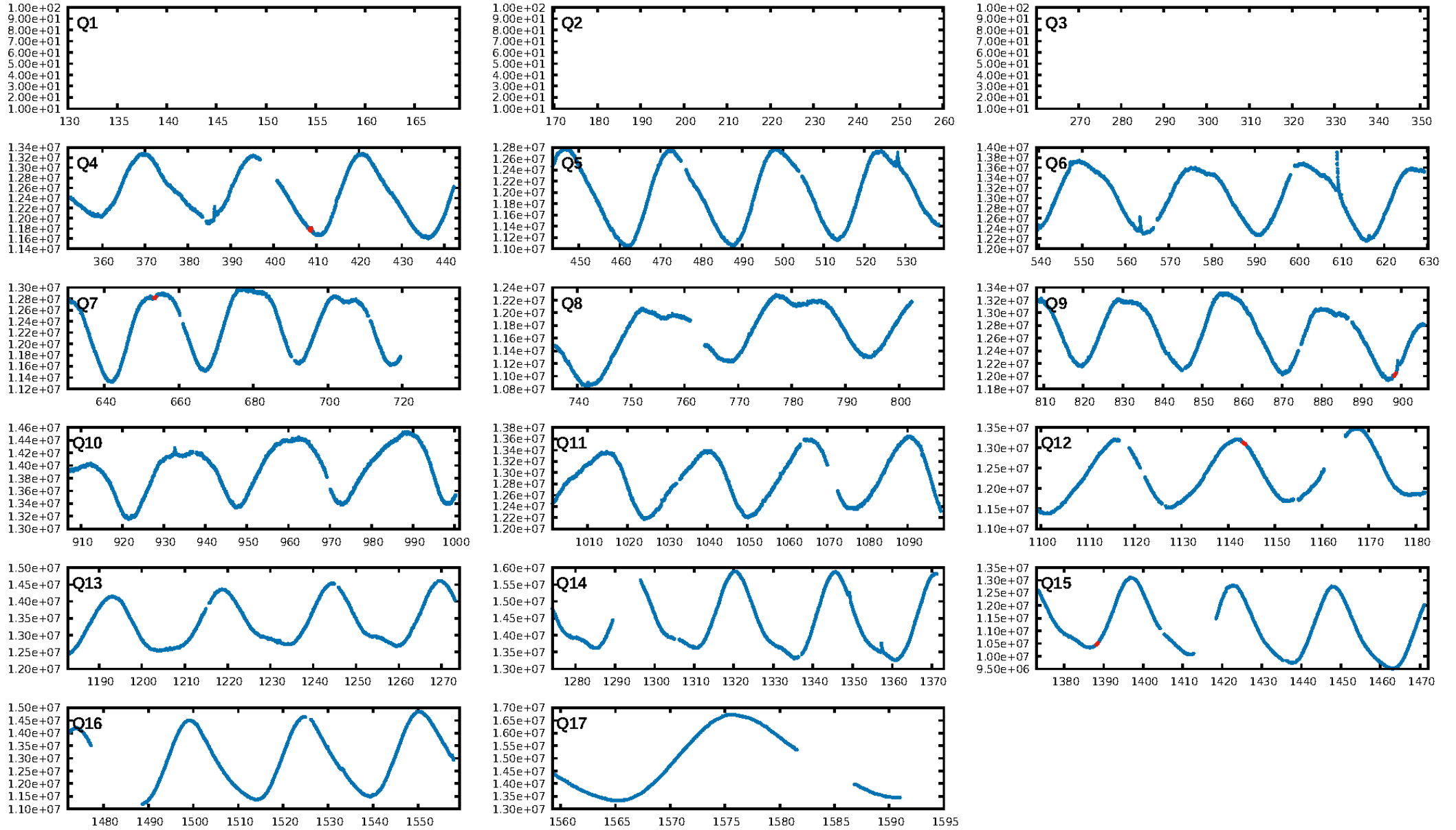
DV Fit Results:

Period = 244.92915 [0.00413] d
Epoch = 163.7156 [0.0134] BKJD
Rp/R* = 0.0356 [0.0253]
a/R* = 226.24 [494.73]
b = 0.62 [2.25]
Seff = 0.40 [0.07]
Teq = 202 [9] K
Rp = 2.59 [1.85] Re
a = 0.6658 [0.0475] AU
Ag = 28420.06 [41715.48] [0.68 σ]
Teffp = 4064 [1495] K [2.58 σ]

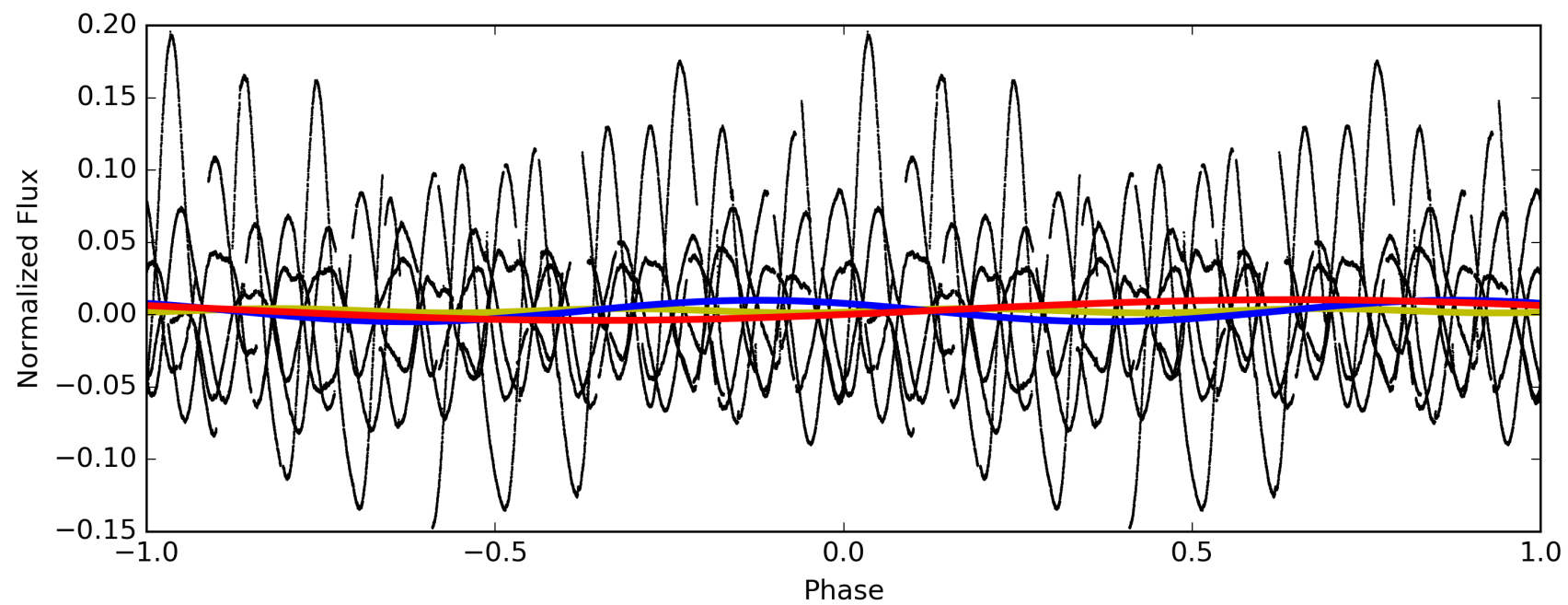
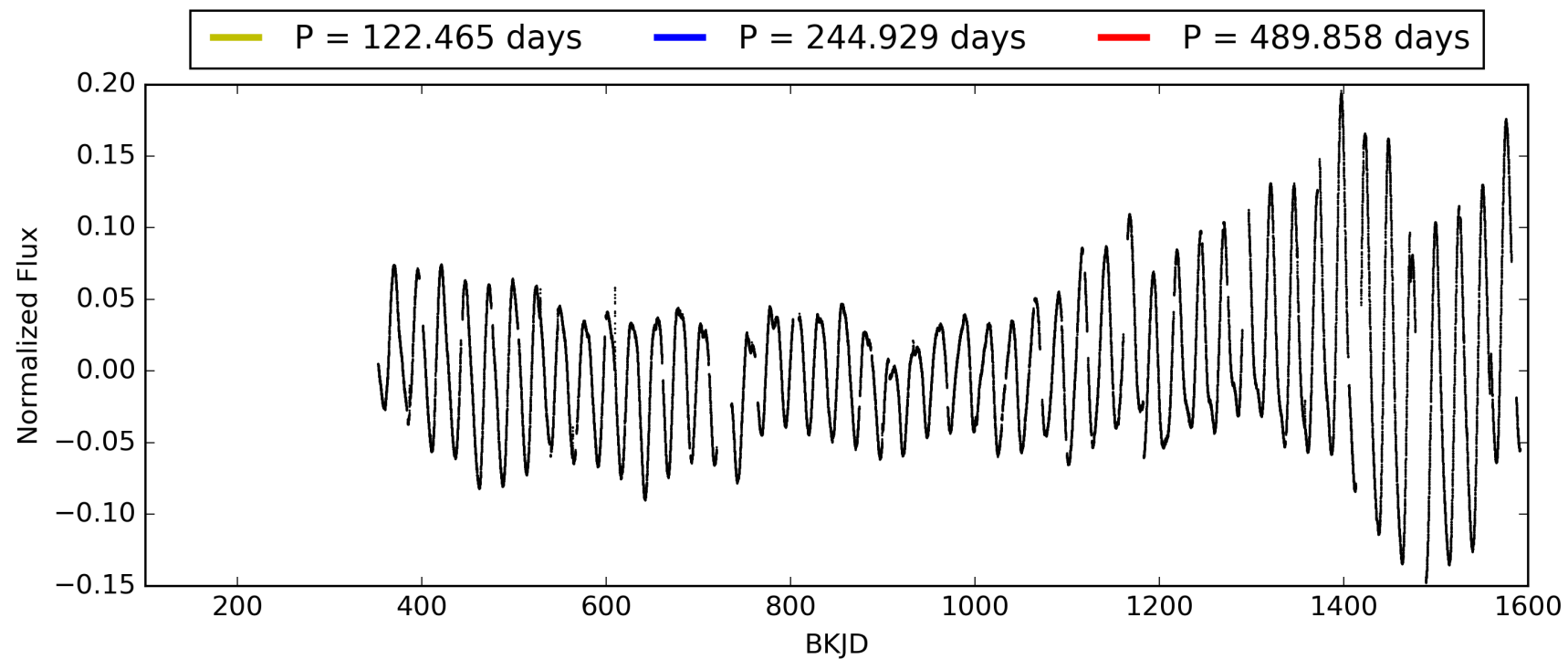
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [40.93 σ]
ModelChiSquare2-sig: 15.4%
ModelChiSquareGof-sig: 95.7%
Bootstrap-pfa: 1.76e-11
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.7476
Centroid-sig: 75.9%
Centroid-so: 2.308 arcsec [1.19 σ]
OotOffset-rm: 8.716 arcsec [25.28 σ]
KicOffset-rm: 0.337 arcsec [1.39 σ]
OotOffset-st: 0/2/0/1 [3]
KicOffset-st: 0/2/1/1 [4]
DiffImageQuality-fgm: 1.00 [4/4]
DiffImageOverlap-fno: 0.80 [4/5]

TCE 006611419-05, PDC Light Curves

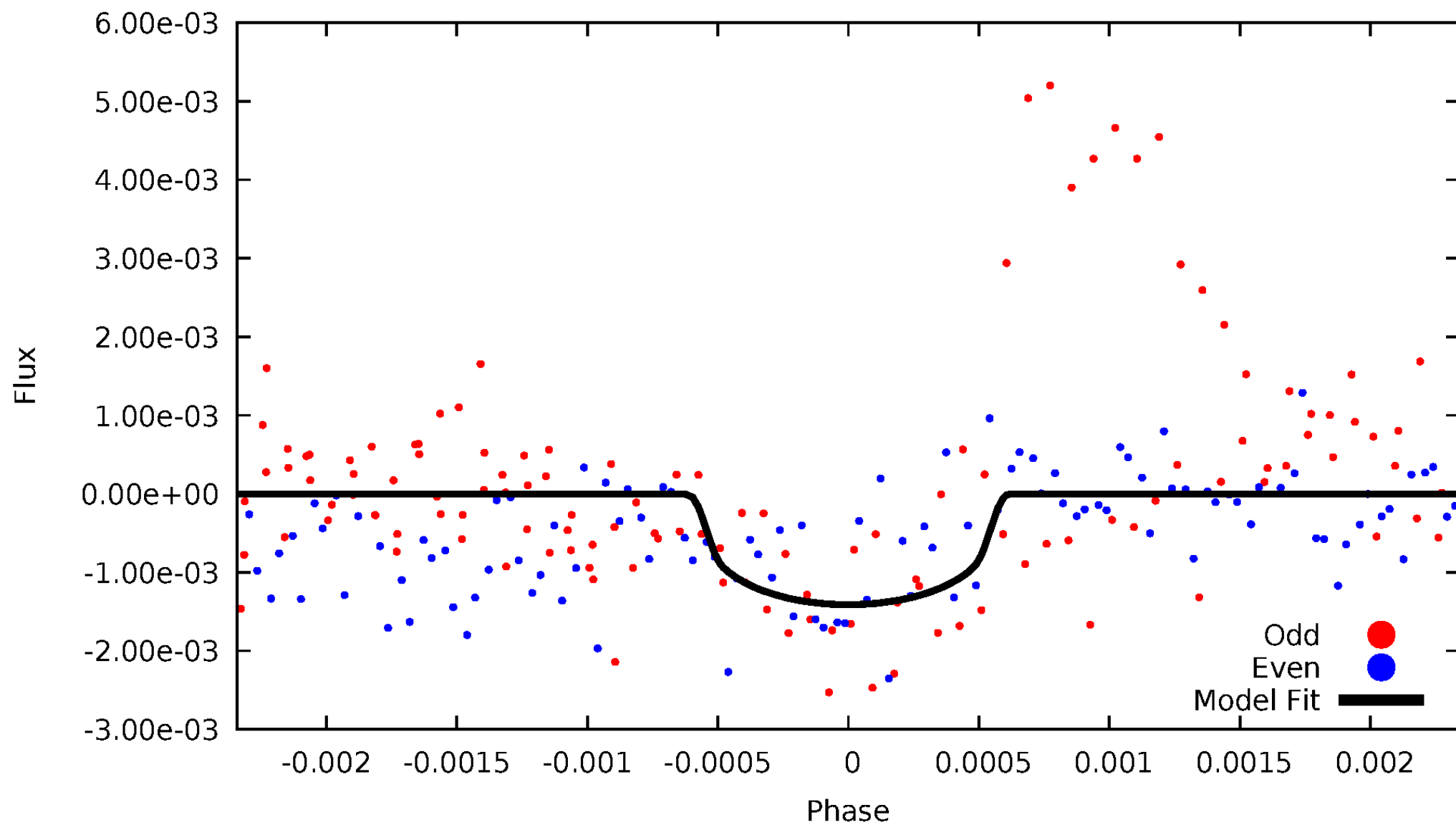


TCE 006611419-05



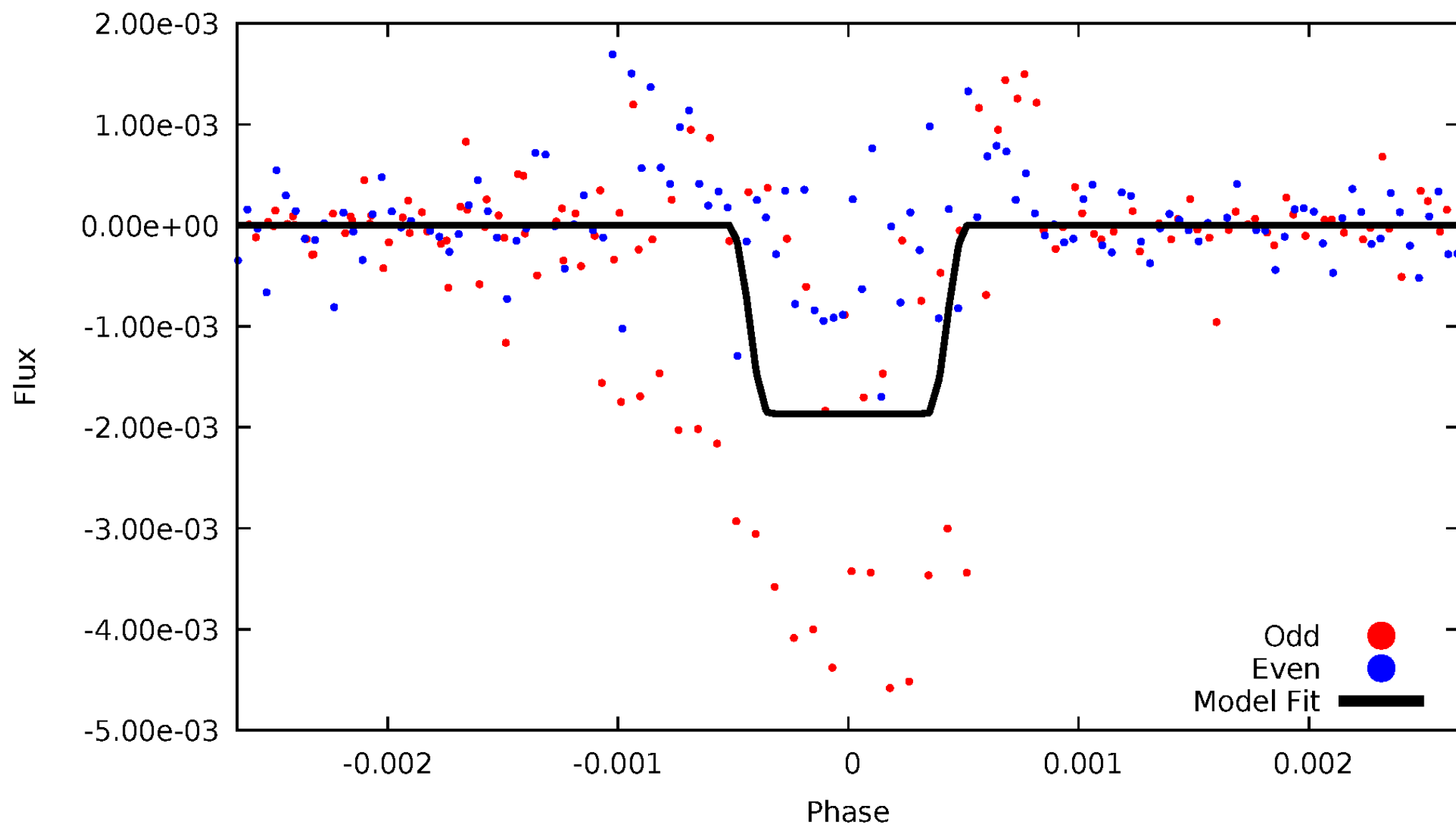
DV Odd/Even

TCE 006611419-05



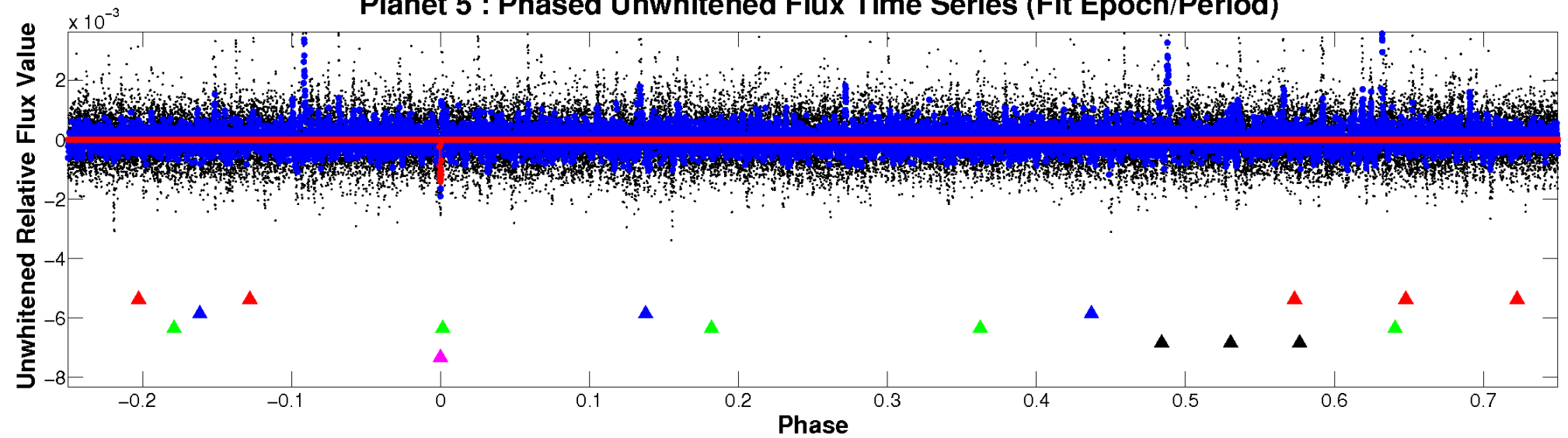
ALT Odd/Even

TCE 006611419-05

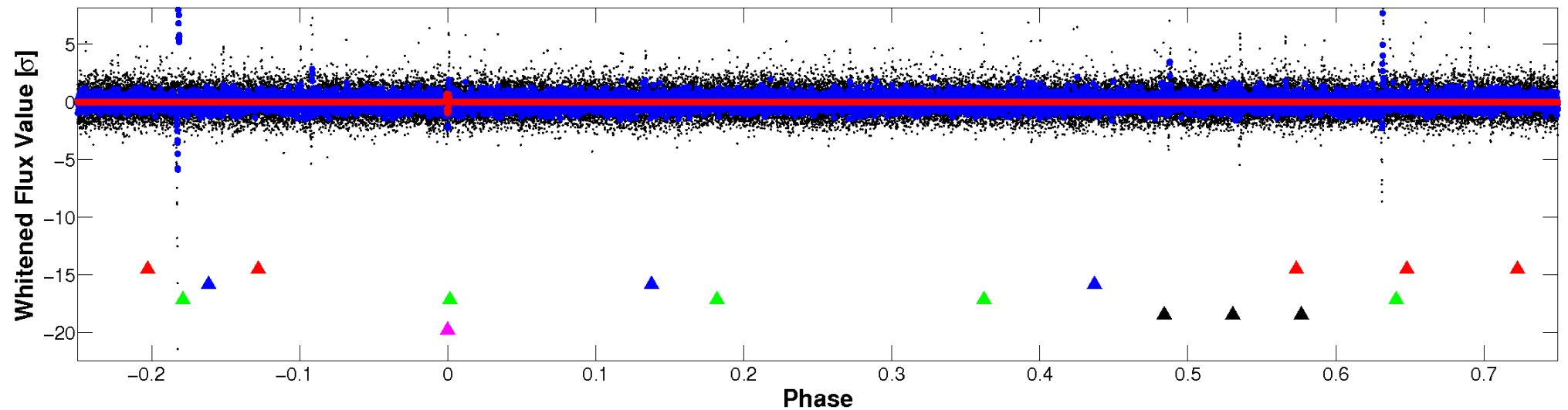


Non-Whitened Vs. Whitened Light Curve

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

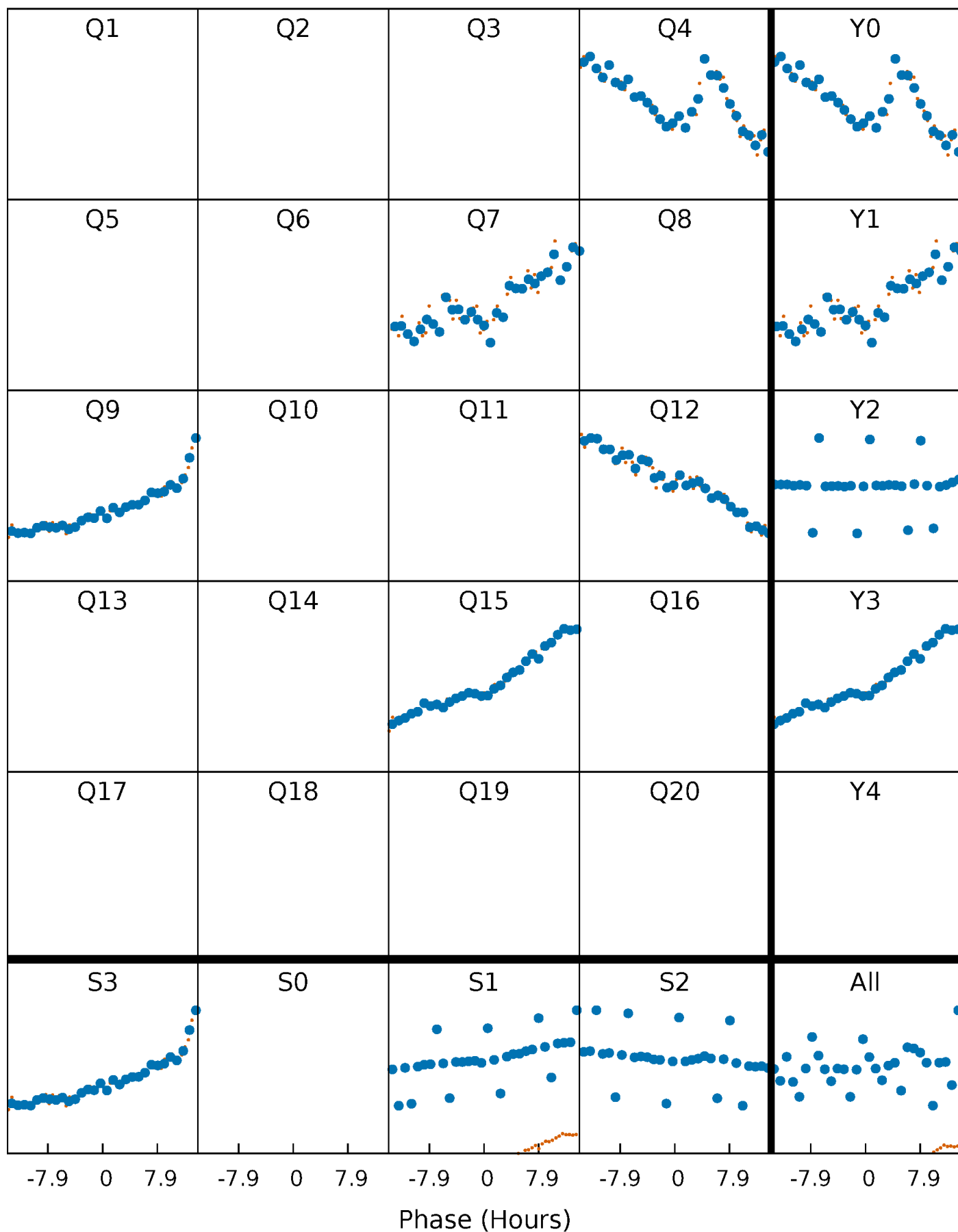


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



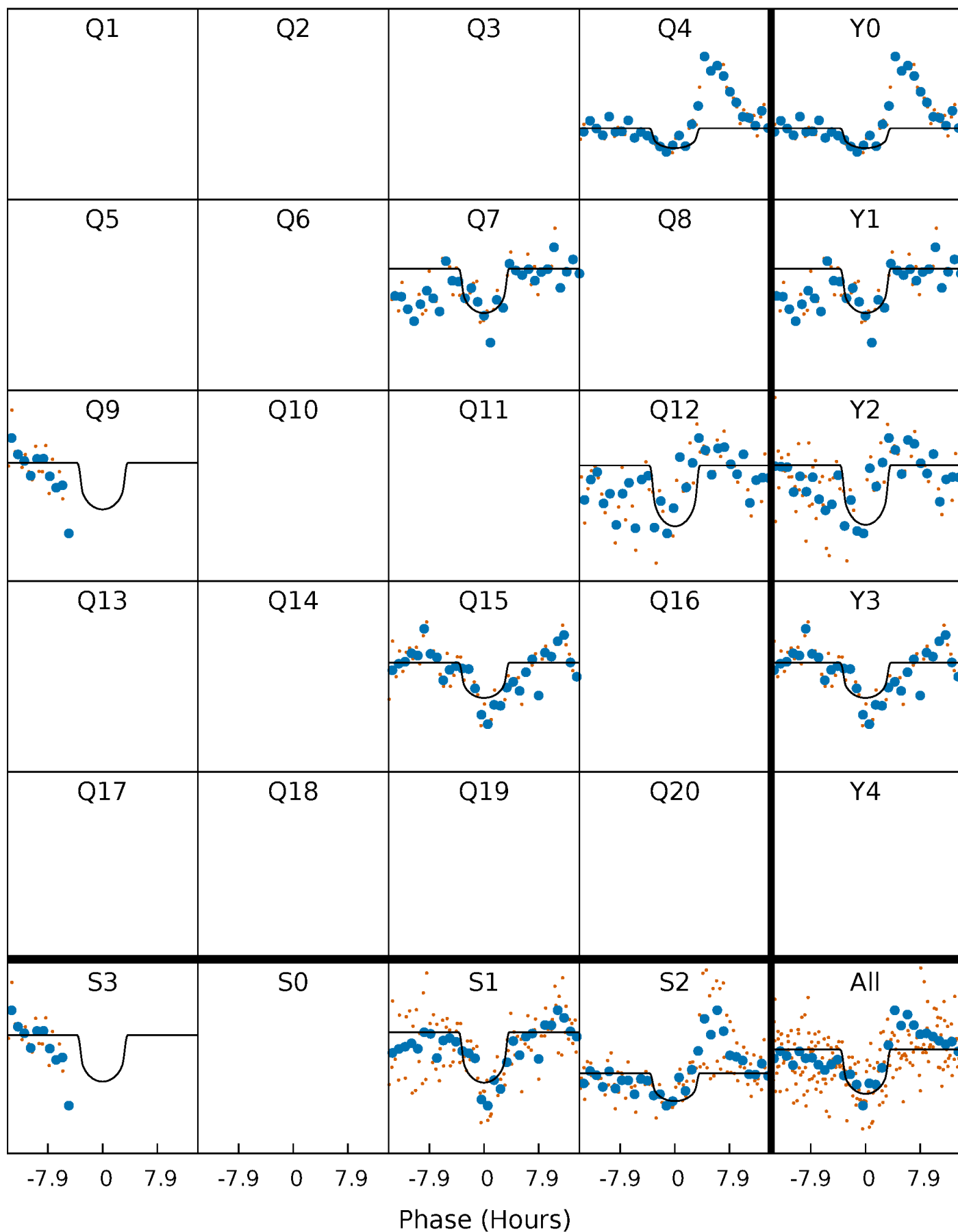
PDC Quarter-Phased Transit Curves

TCE 006611419-05 $P=244.929147$ Days $T_0=163.715575$ (BKJD)



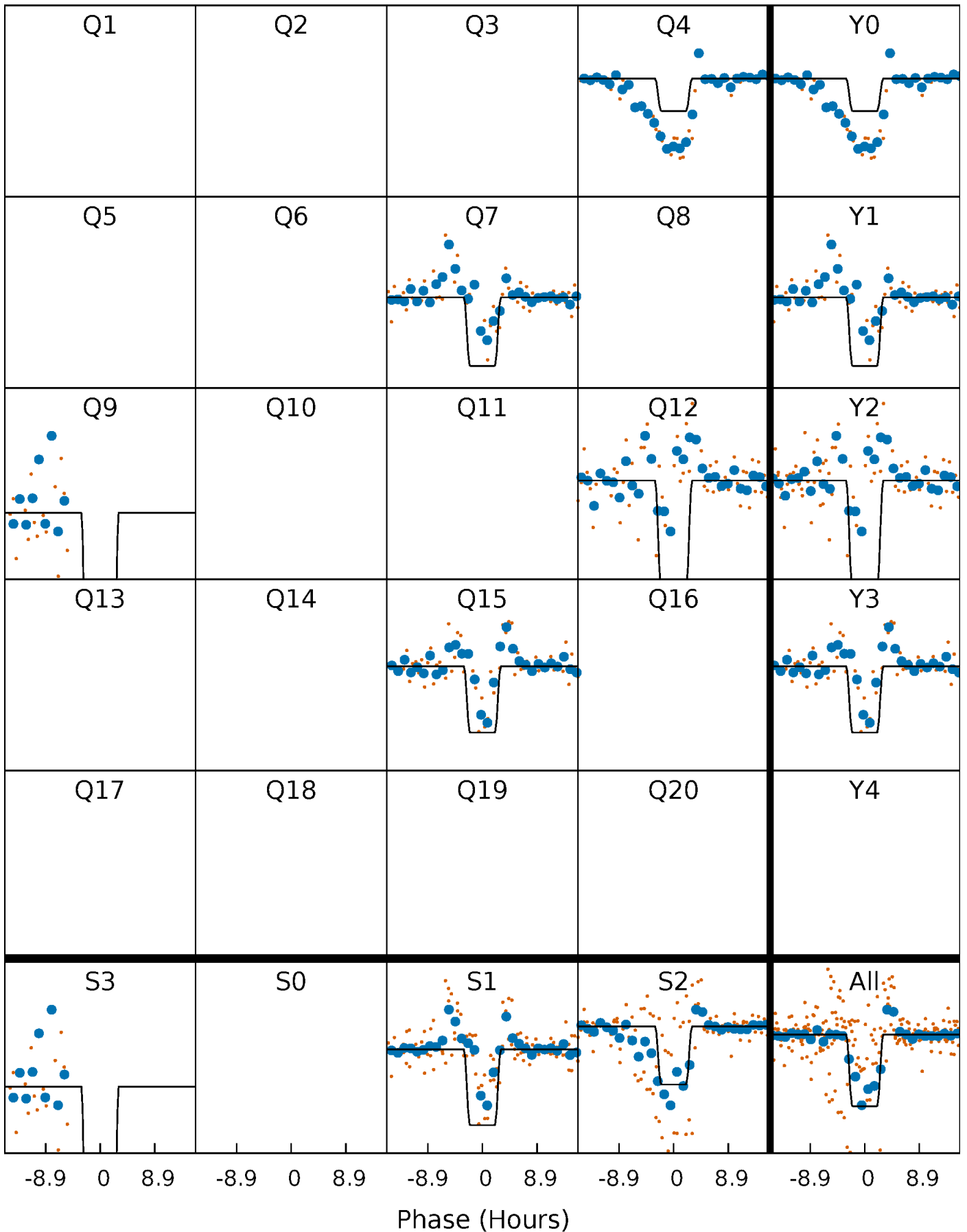
DV Quarter-Phased Transit Curves

TCE 006611419-05 $P=244.929147$ Days $T_0=163.715575$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

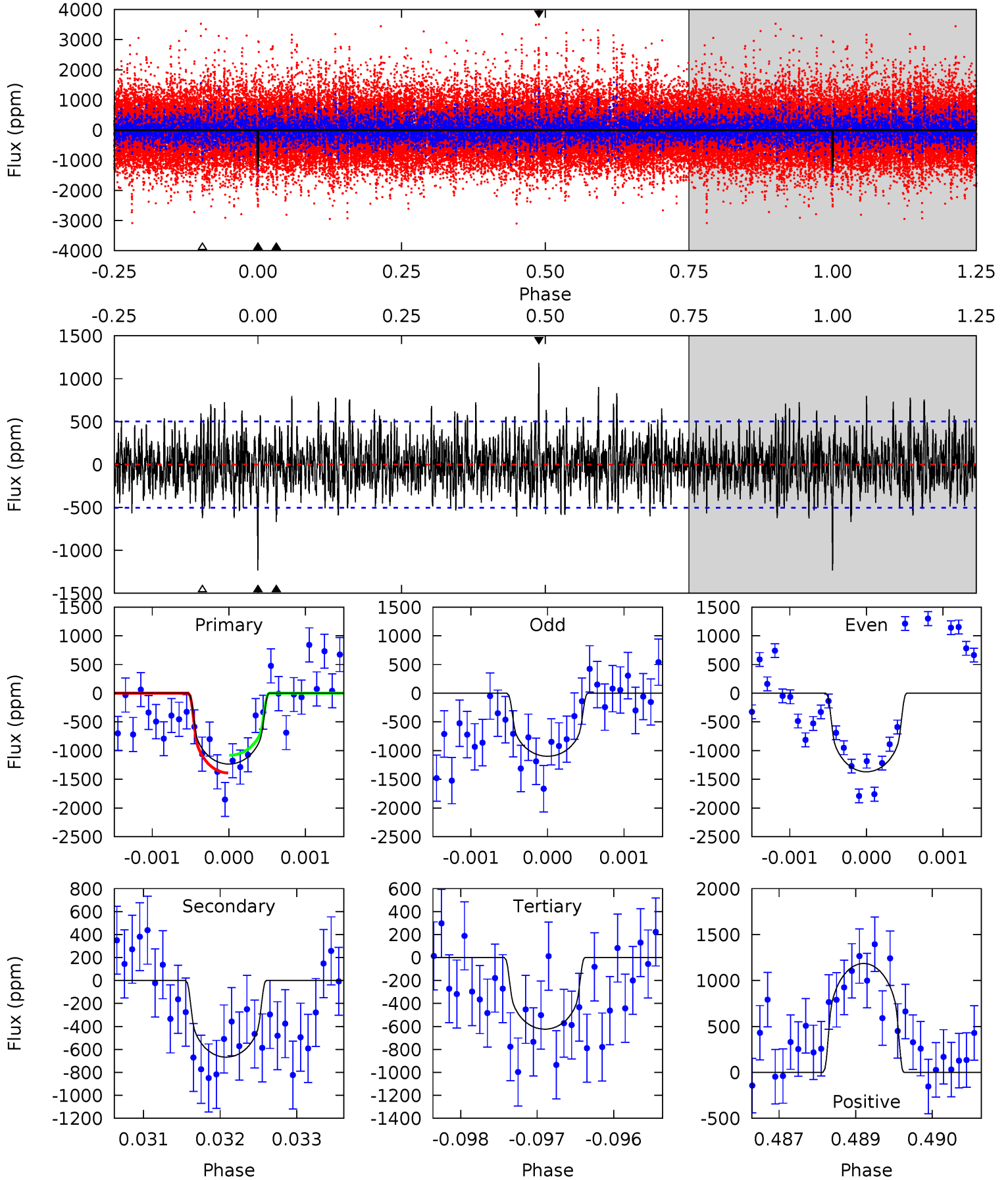
TCE 006611419-05 $P=244.930273$ Days $T_0=163.716298$ (BKJD)



DV Model-Shift Uniqueness Test

006611419-05, P = 244.929147 Days, E = 163.715575 Days

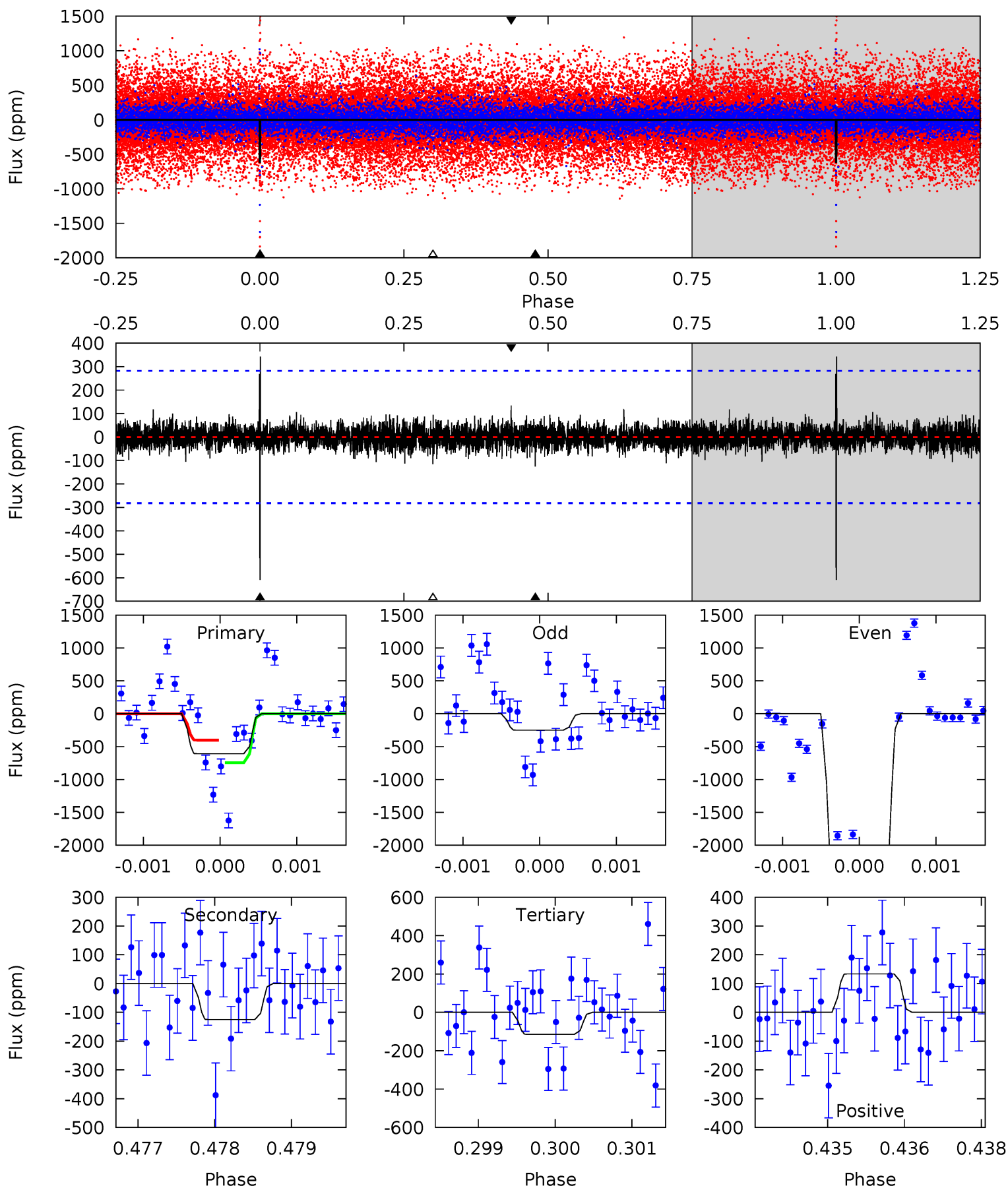
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.3	7.19	6.72	12.8	5.42	3.24	2.49	6.58	0.53	0.47	-5.58	1.37	1.01	0.49	1.66



Alt Model-Shift Uniqueness Test

006611419-05, P = 244.930273 Days, E = 163.716298 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	2.41	2.21	2.58	5.45	3.28	0.54	9.54	9.17	0.20	-0.17	25.3	2.08	0.36	3.24



Stellar Parameters For KIC 006611419

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4588^{+165}_{-165}	$4.608^{+0.052}_{-0.028}$	$-0.220^{+0.300}_{-0.300}$	$0.666^{+0.054}_{-0.059}$	$0.656^{+0.075}_{-0.054}$	$3.134^{+0.726}_{-0.407}$
	+4%/-4%	+1%/-1%	+136%/-136%	+8%/-9%	+11%/-8%	+23%/-13%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006611419-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-667 ± 93	$2.71^{+1.67}_{-1.55}$	281^{+11}_{-12}	3979^{+1599}_{-594}	21806^{+94144}_{-13448}
Alt.	-125 ± 52	$3.34^{+1.63}_{-1.70}$	281^{+11}_{-11}	2866^{+732}_{-359}	2519^{+9538}_{-1582}

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 $A_{obs} \gg 1.0$

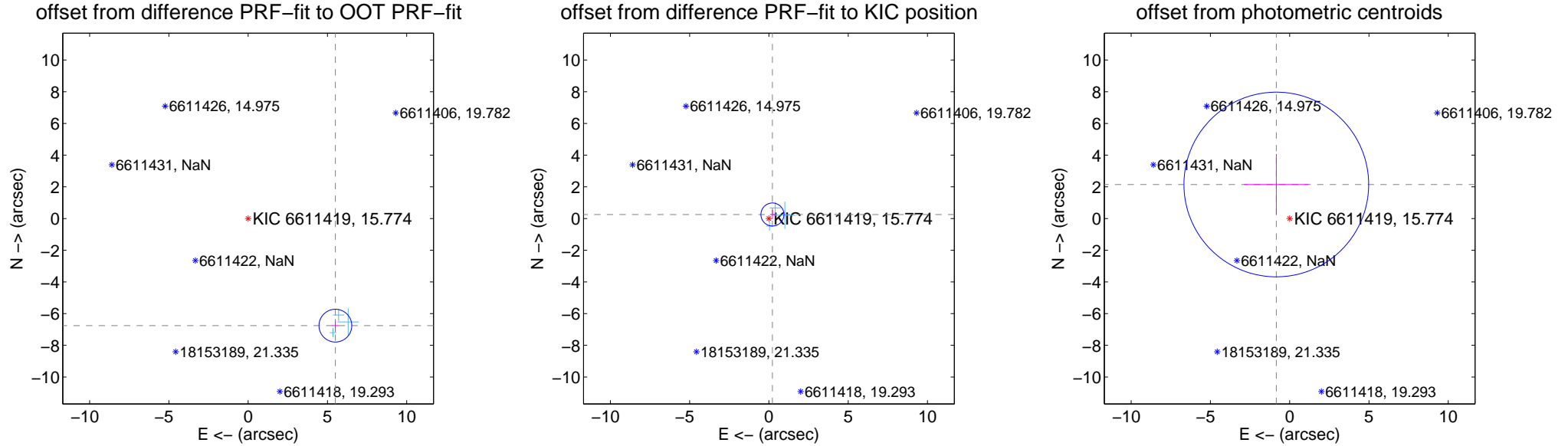
DV Centroid Data

Supplemental centroid analysis for 006611419-05. Kepler magnitude: 15.77. Transit SNR 6.93

There are 4 quarters with good PRF difference image offsets

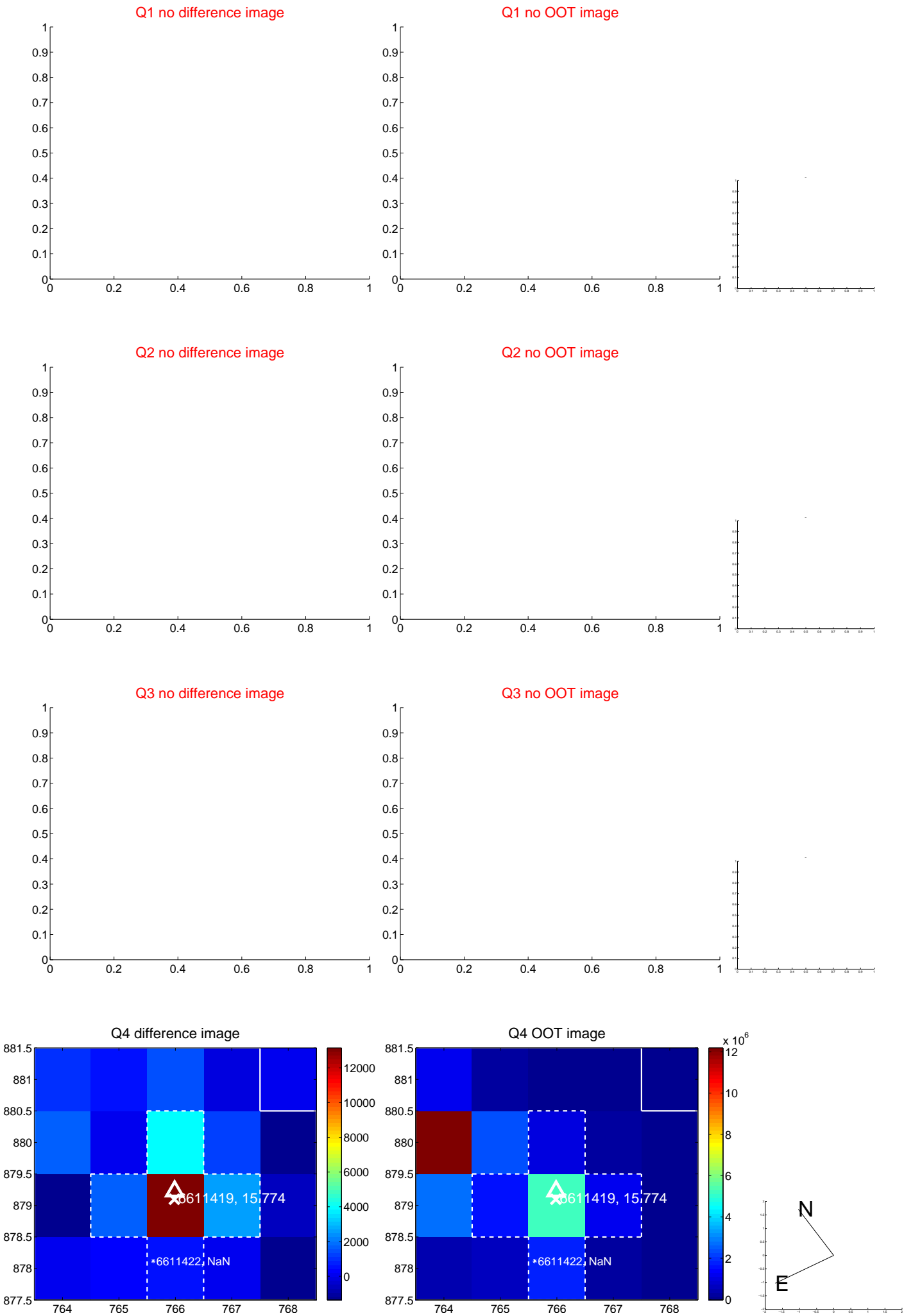
The OOT PRF centroid is offset from the target star catalog position by about 8.58 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.716 \pm 0.345	25.28	-5.503 \pm 0.215	-6.759 \pm 0.409
PRF-fit source offset from KIC position	0.337 \pm 0.242	1.39	-0.221 \pm 0.156	0.255 \pm 0.291
photometric centroid source offset	2.31 \pm 1.94	1.19	0.85 \pm 2.04	2.15 \pm 1.93

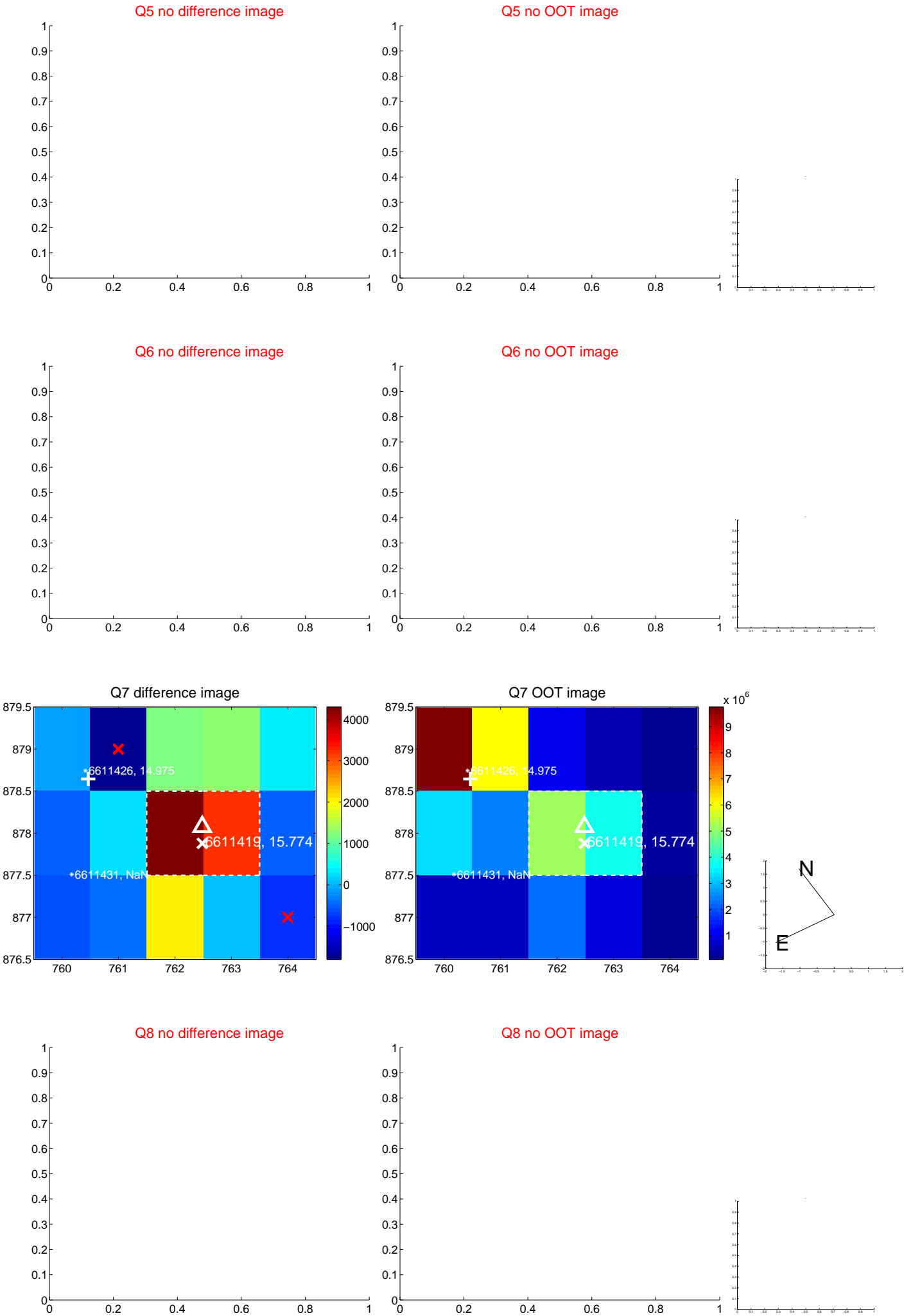


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

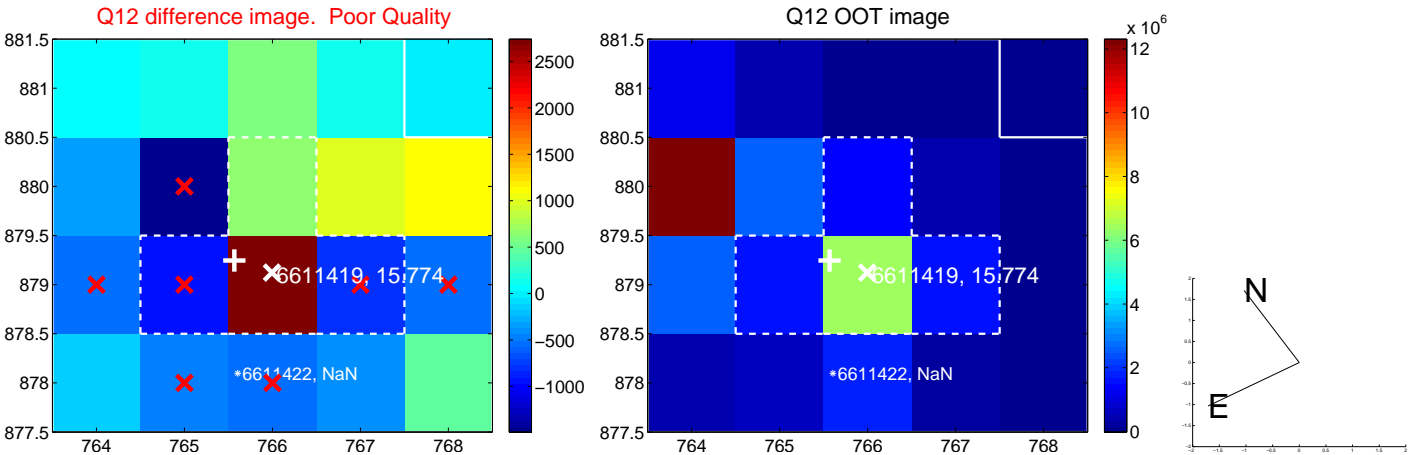
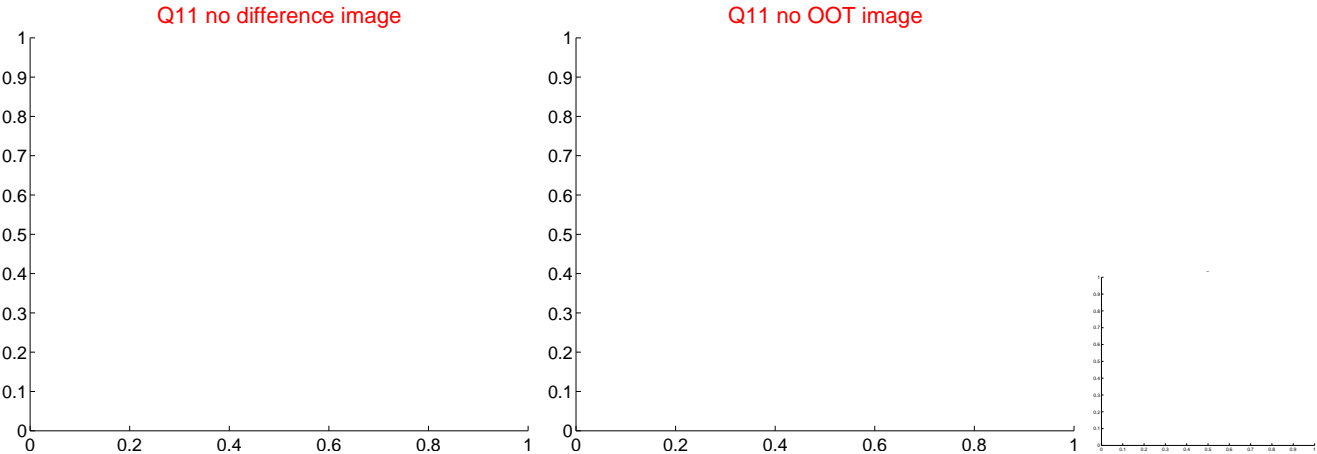
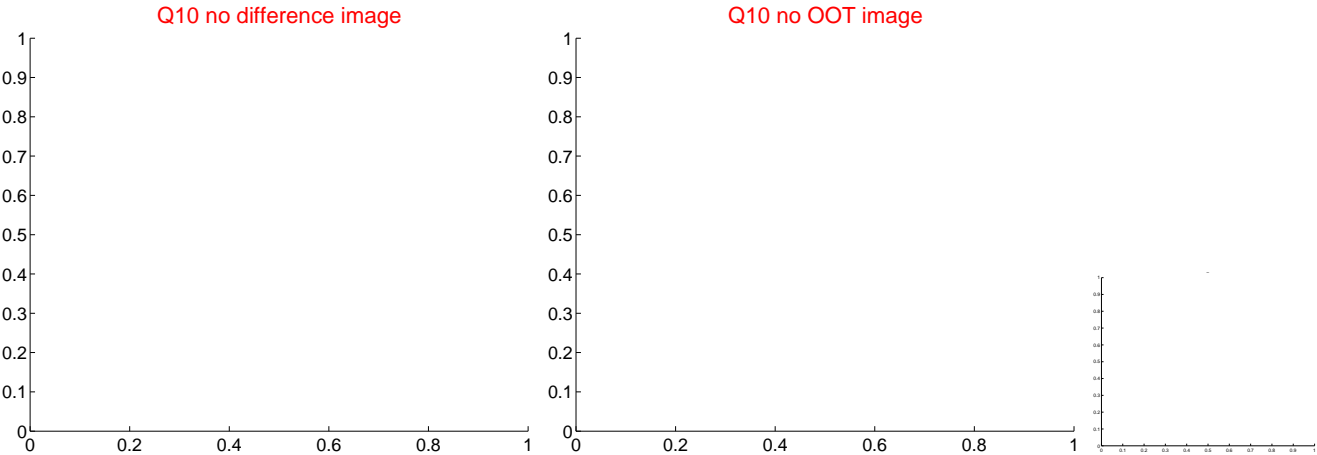
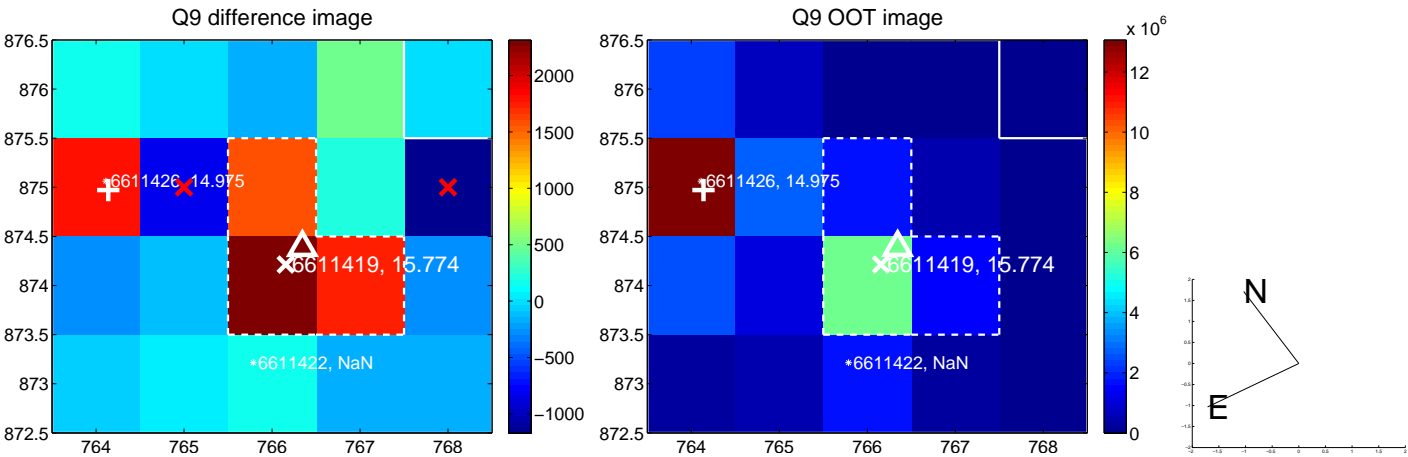
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



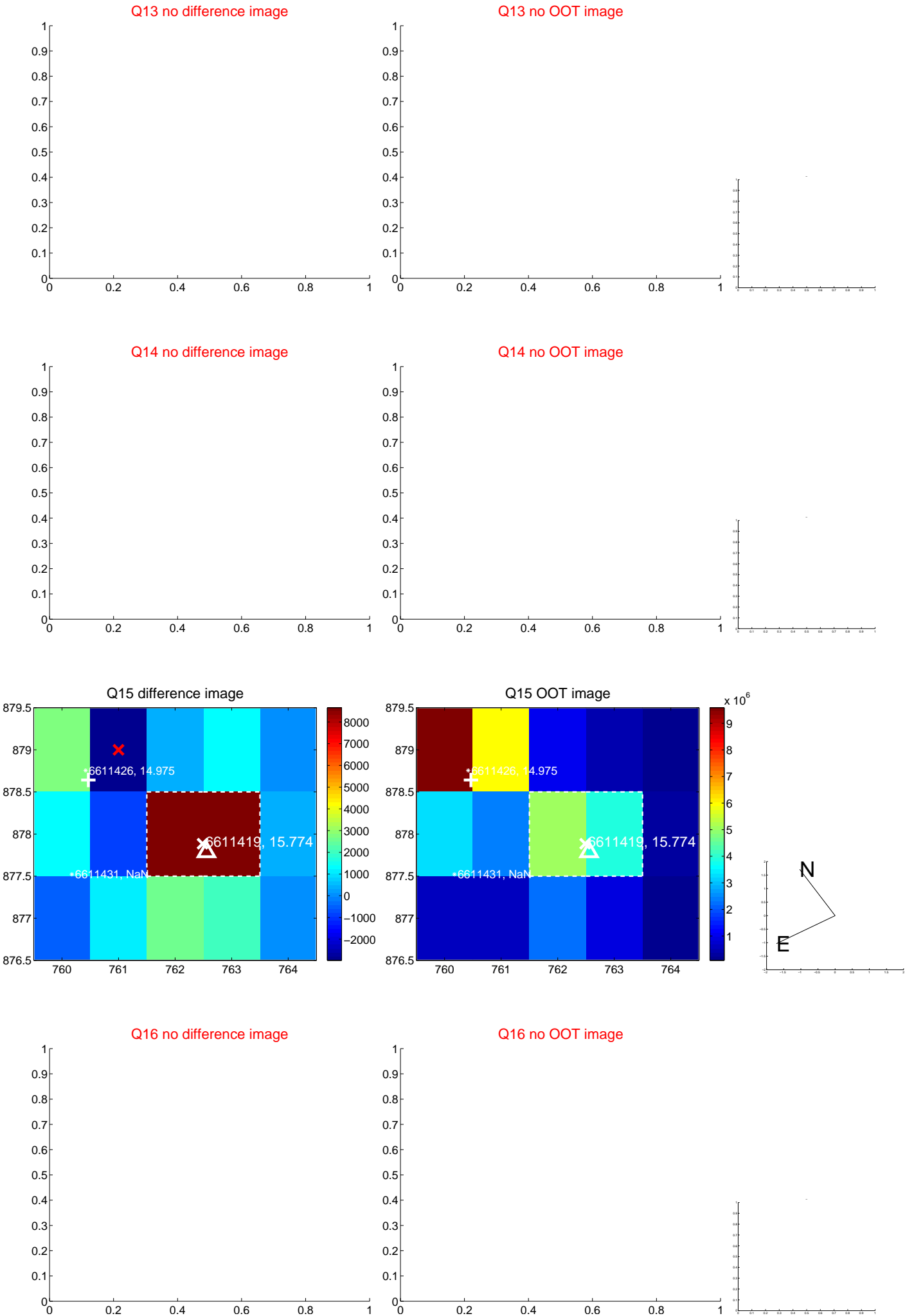
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



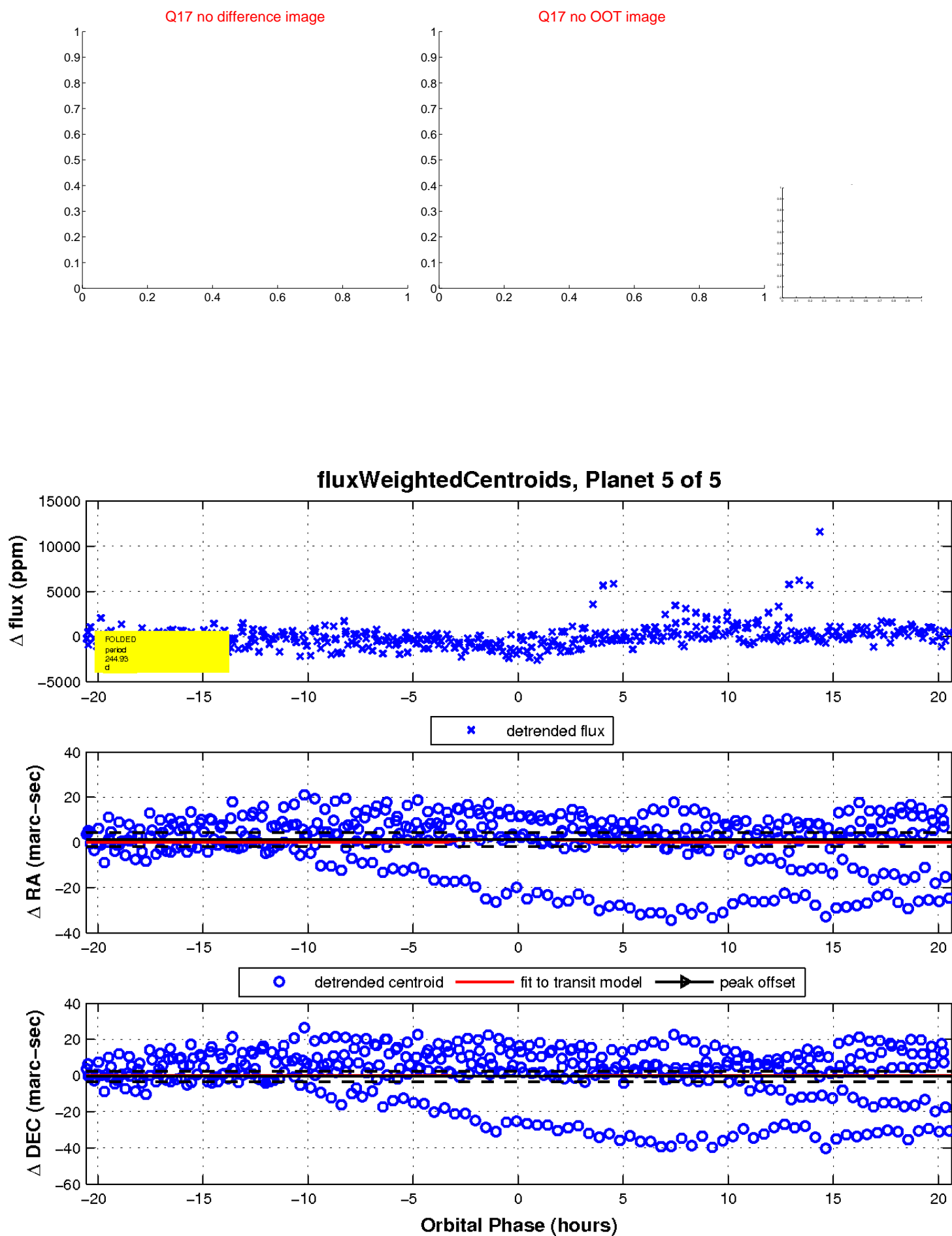
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

