

KIC 011924179

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})
011924179-01	OBS	No	316.245230	279.194586	1056.2	4.441	17.6	7.1	1.25	6106	4.20	2.53
011924179-02	OBS	No	261.312390	320.064918	1267.1	3.173	15.5	9.4	1.25	6106	4.46	3.26
011924179-03	OBS	No	190.672041	169.161027	690.8	2.349	11.7	5.3	1.25	6106	3.57	4.96

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011924179-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011924179-02	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—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011924179-03	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—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

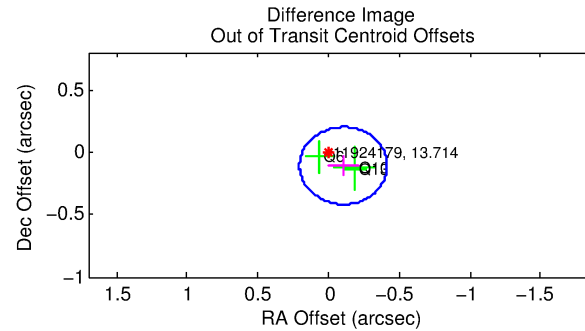
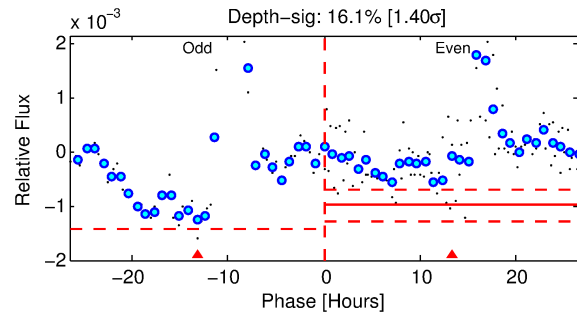
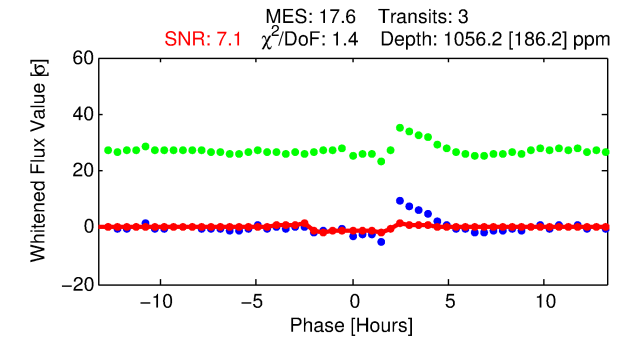
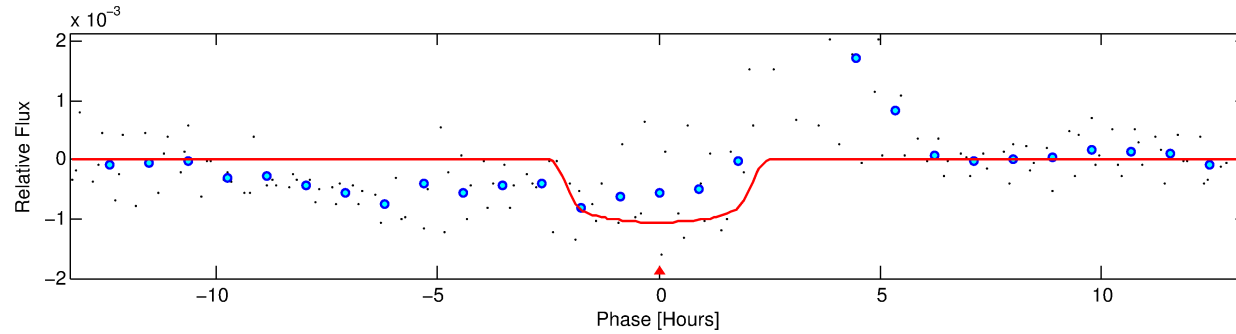
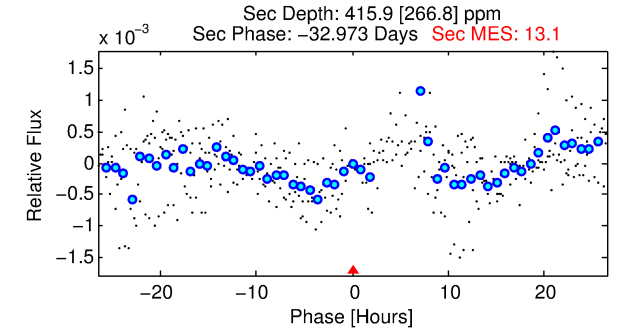
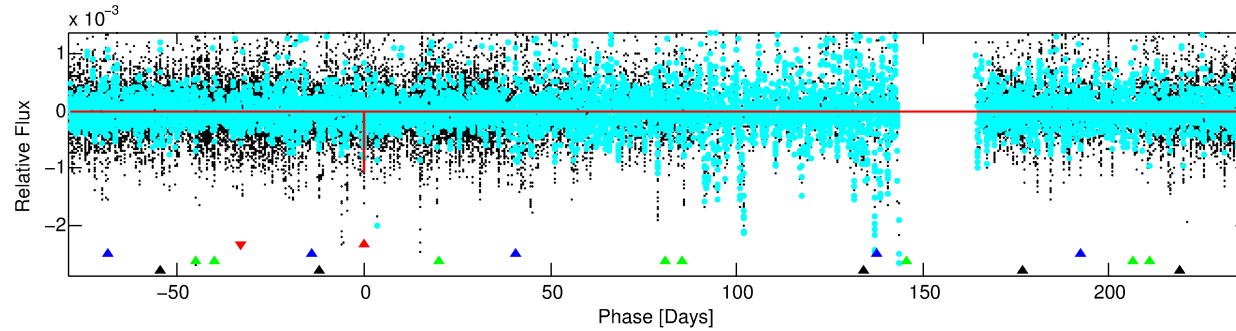
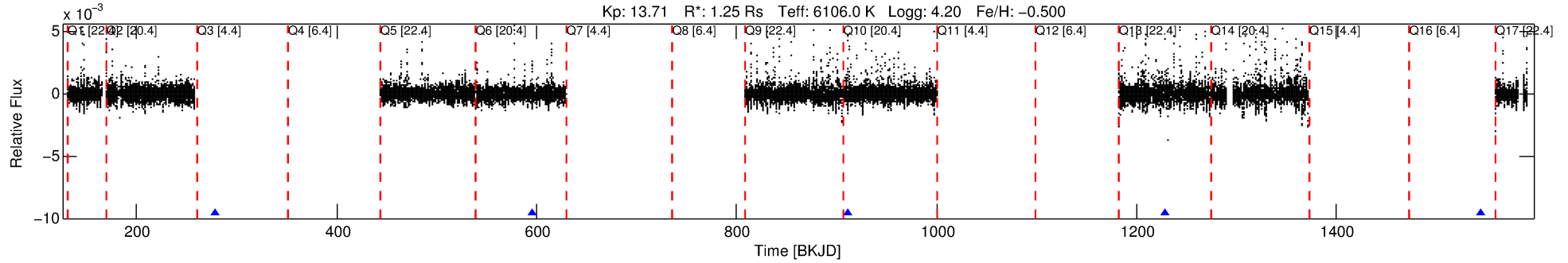
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011924179-01

No Significant Match Found

DV One-Page Summary

KIC: 11924179 Candidate: 1 of 4 Period: 316.245 d



DV Fit Results:

Period = 316.24523 [0.00483] d
Epoch = 279.1946 [0.0099] BKJD
Rp/R* = 0.0308 [0.0235]
a/R* = 486.10 [1847.22]
b = 0.51 [5.47]
Seff = 2.53 [1.22]
Teq = 321 [39] K
Rp = 4.19 [3.44] Re
a = 0.8776 [0.2531] AU
Ag = 10016.88 [17230.43] [0.58 σ]
Teffp = 4972 [2068] K [2.25 σ]

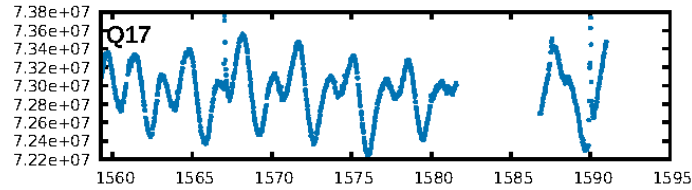
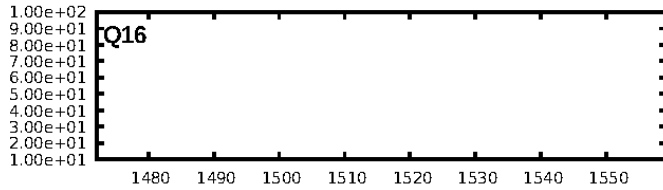
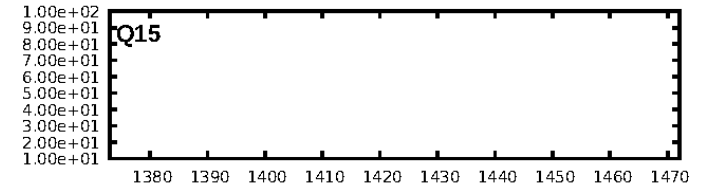
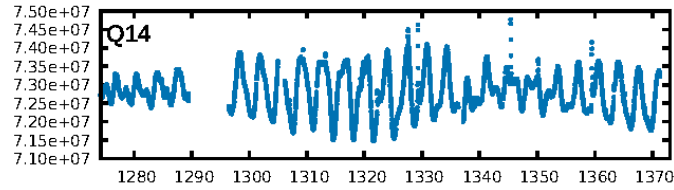
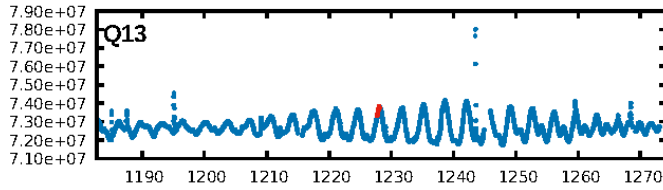
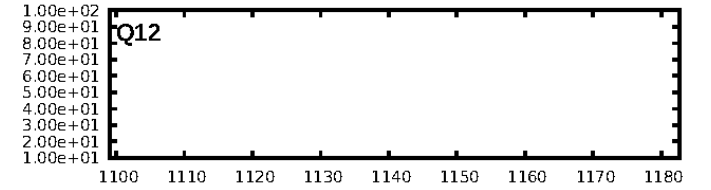
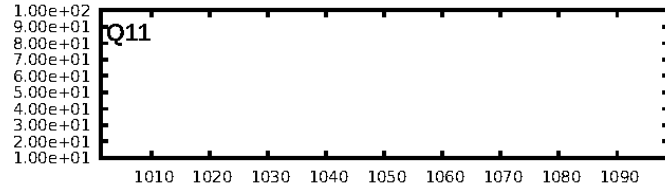
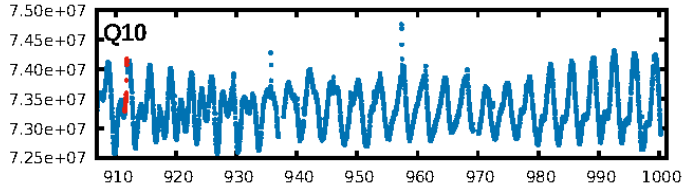
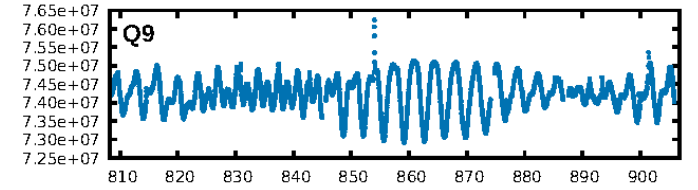
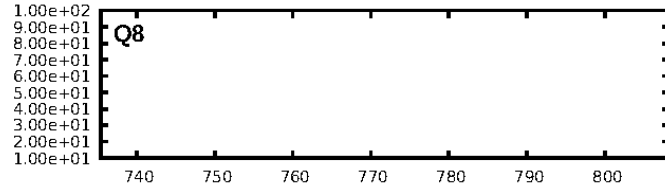
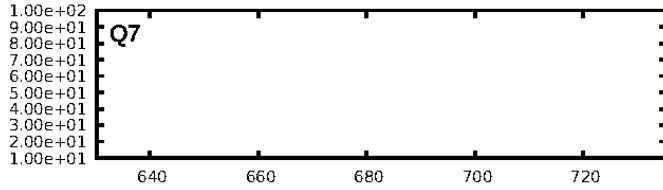
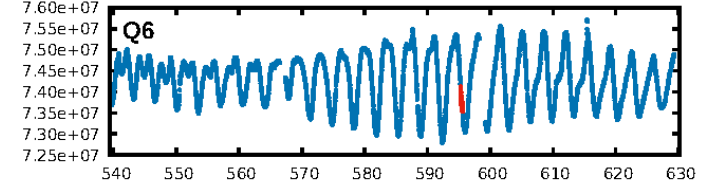
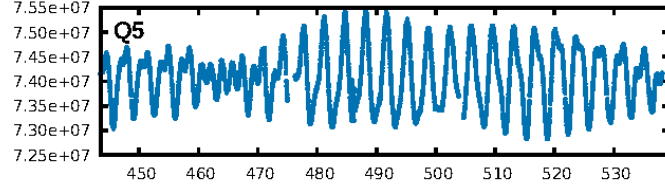
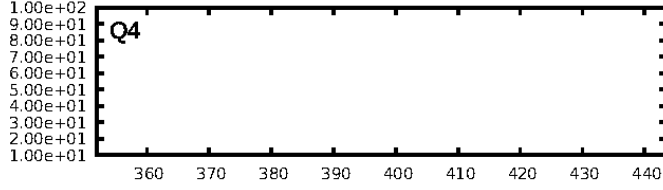
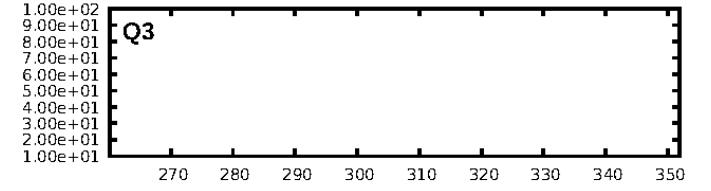
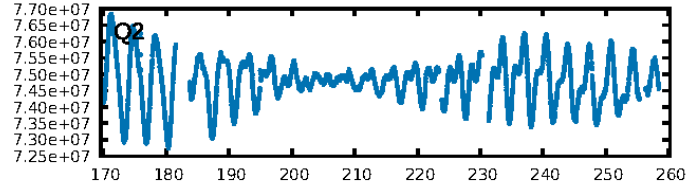
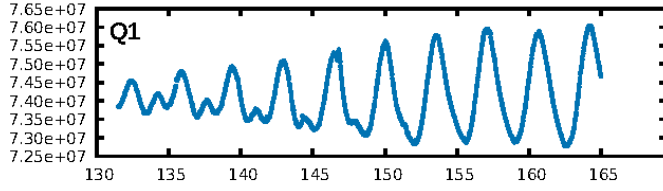
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [176.45 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 8.5%
ModelChiSquareGof-sig: 89.2%
Bootstrap-pfa: 5.13e-16
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.06739
Centroid-sig: 34.4%
Centroid-so: 0.671 arcsec [1.03 σ]
OotOffset-rm: 0.150 arcsec [1.46 σ]
OotOffset-st: 2/0/0/1 [3]
KicOffset-rm: 0.182 arcsec [1.35 σ]
KicOffset-st: 2/0/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

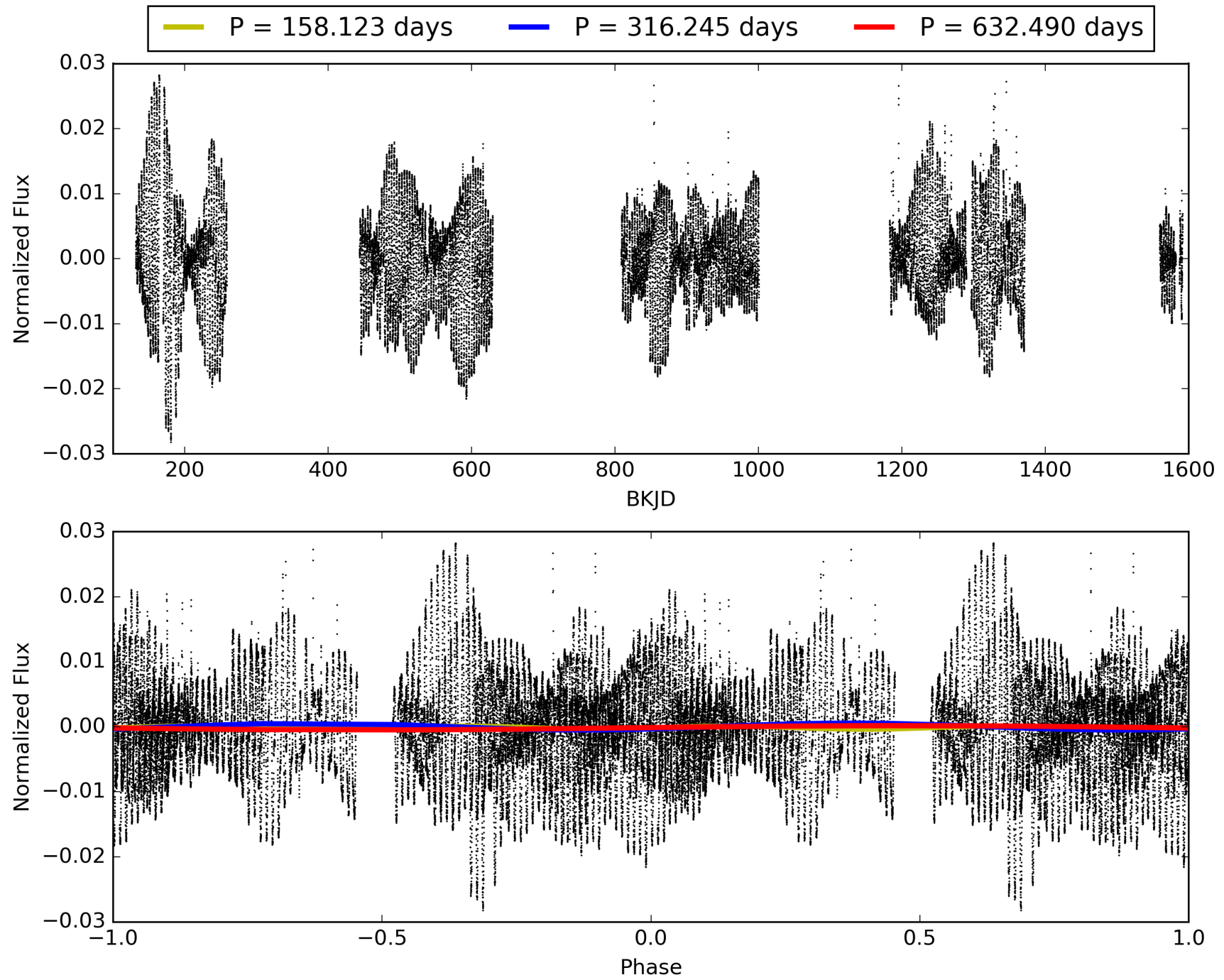
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 03:39:38 Z

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

TCE 011924179-01, PDC Light Curves

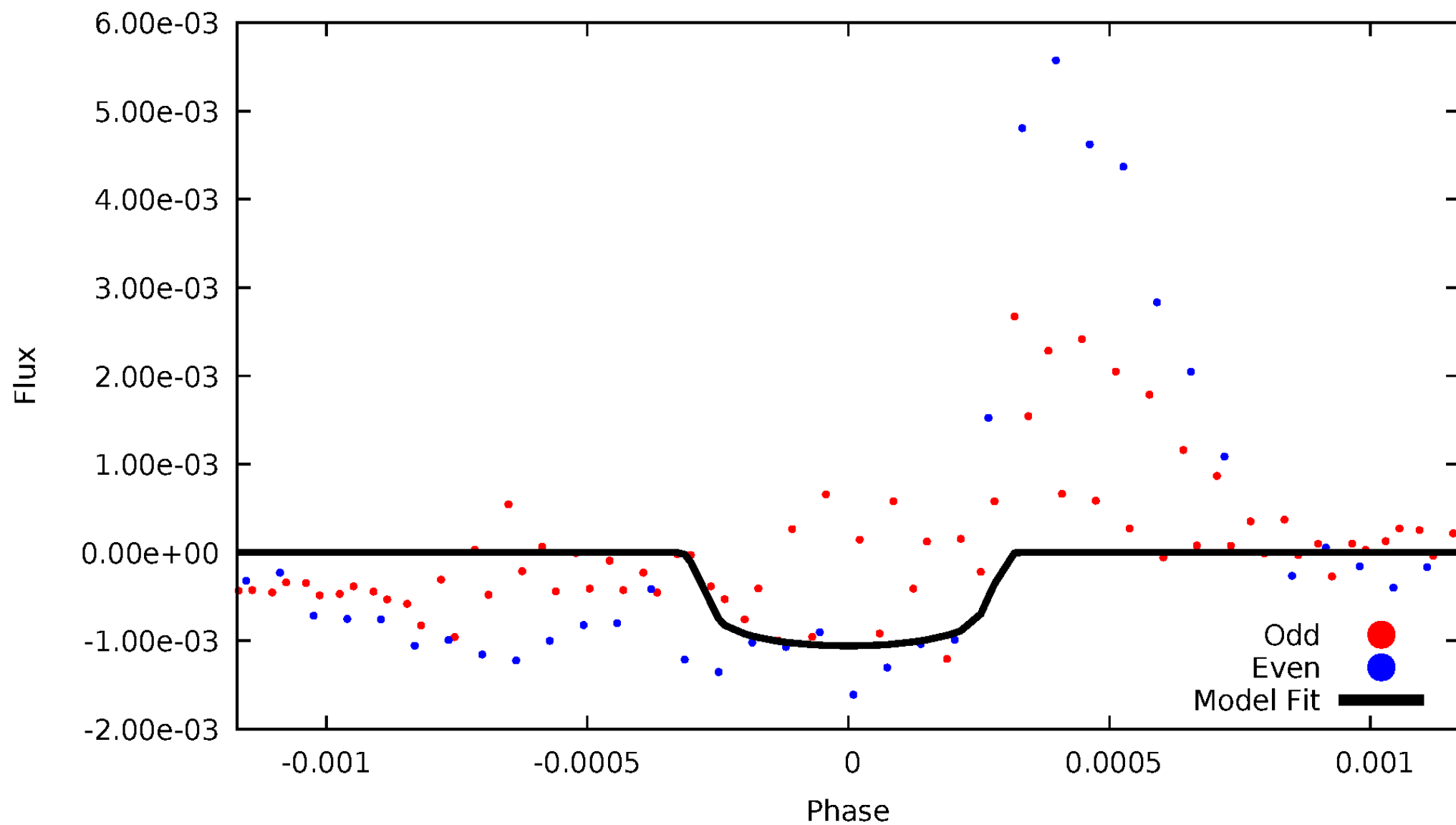


TCE 011924179-01



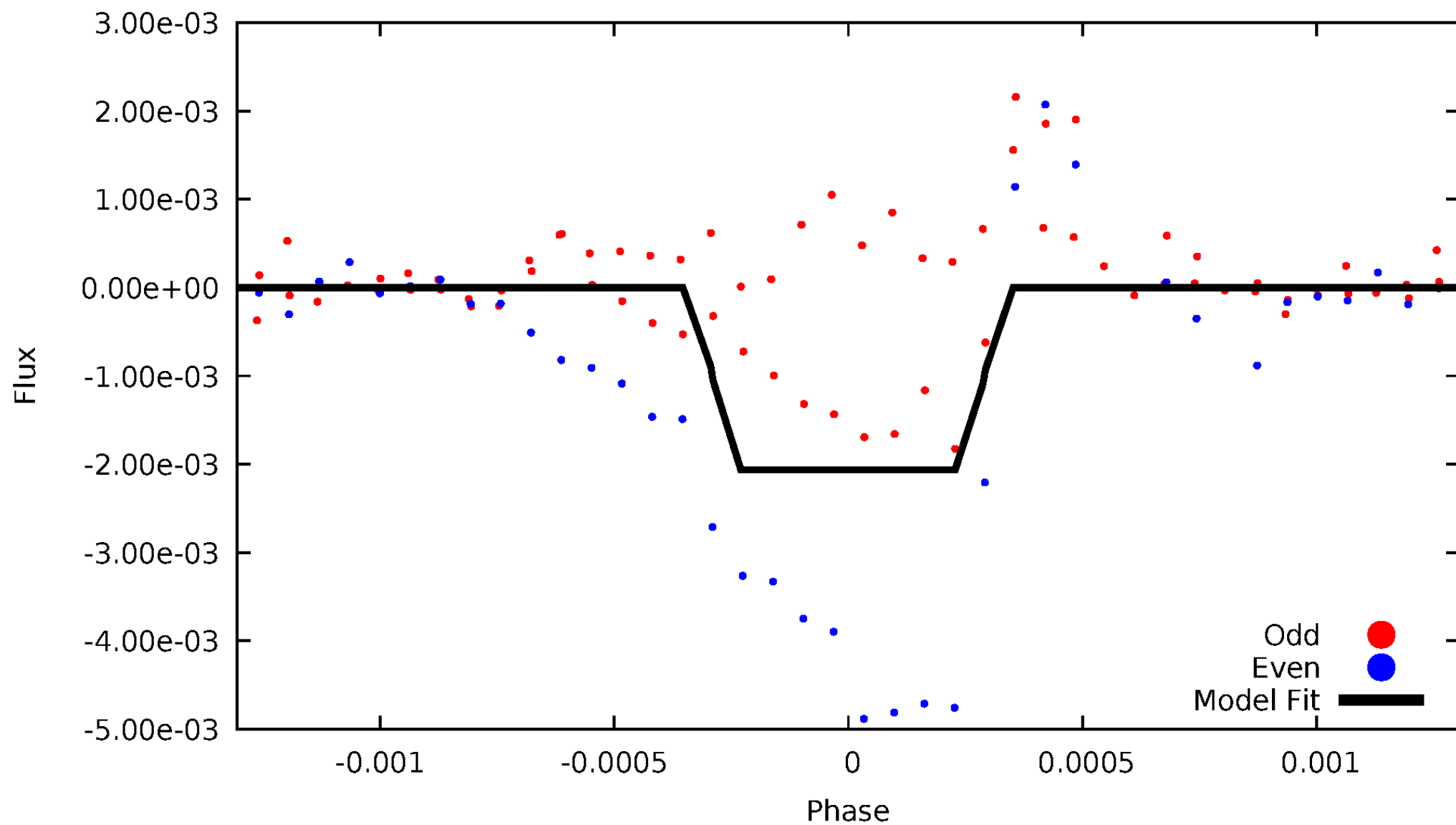
DV Odd/Even

TCE 011924179-01



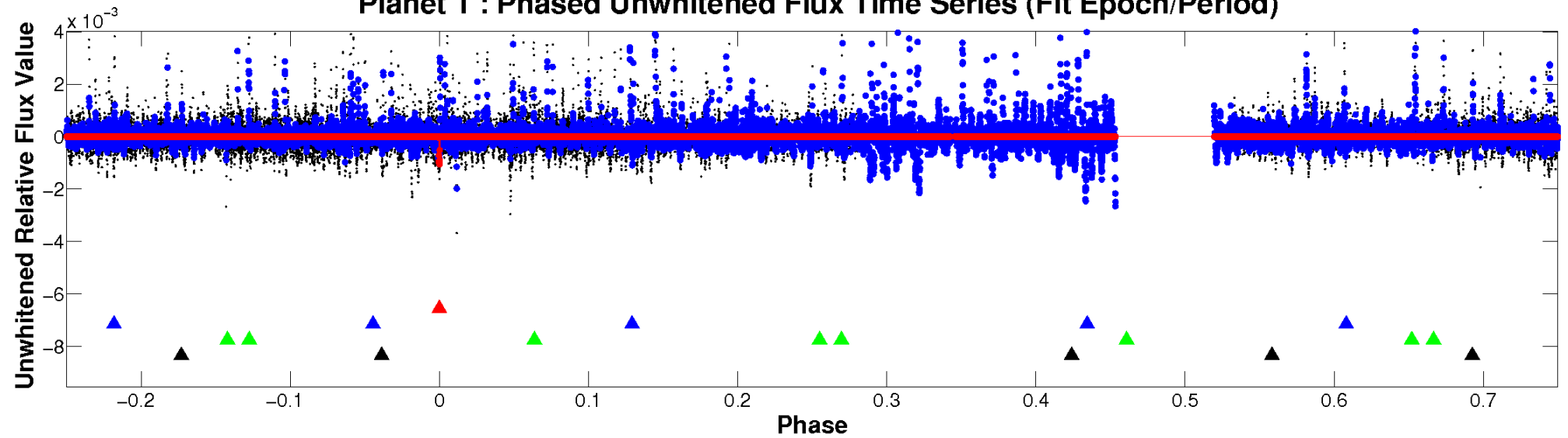
ALT Odd/Even

TCE 011924179-01

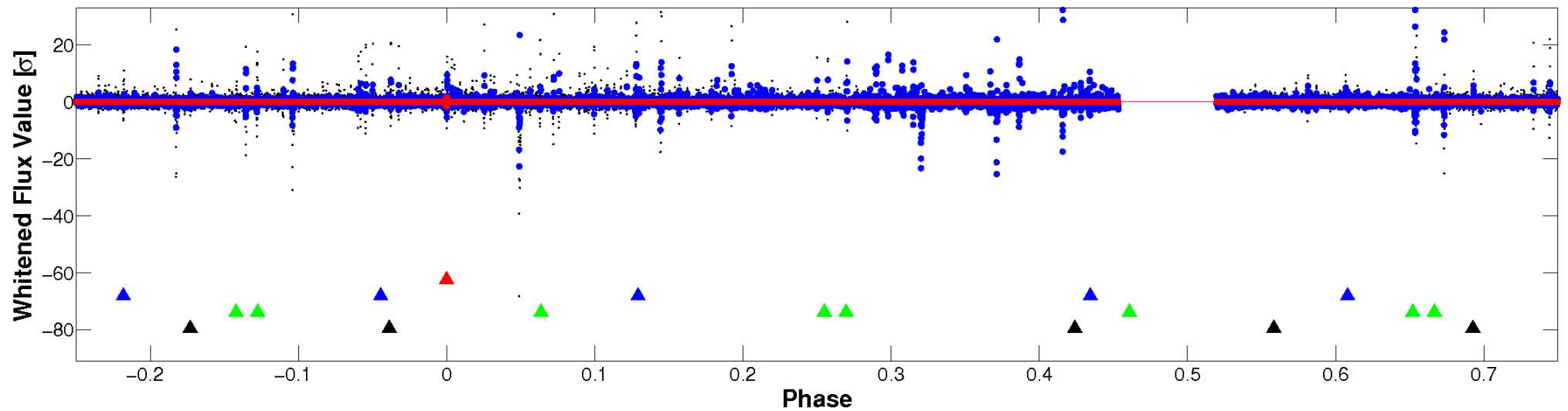


Non-Whitened Vs. Whitened Light Curve

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

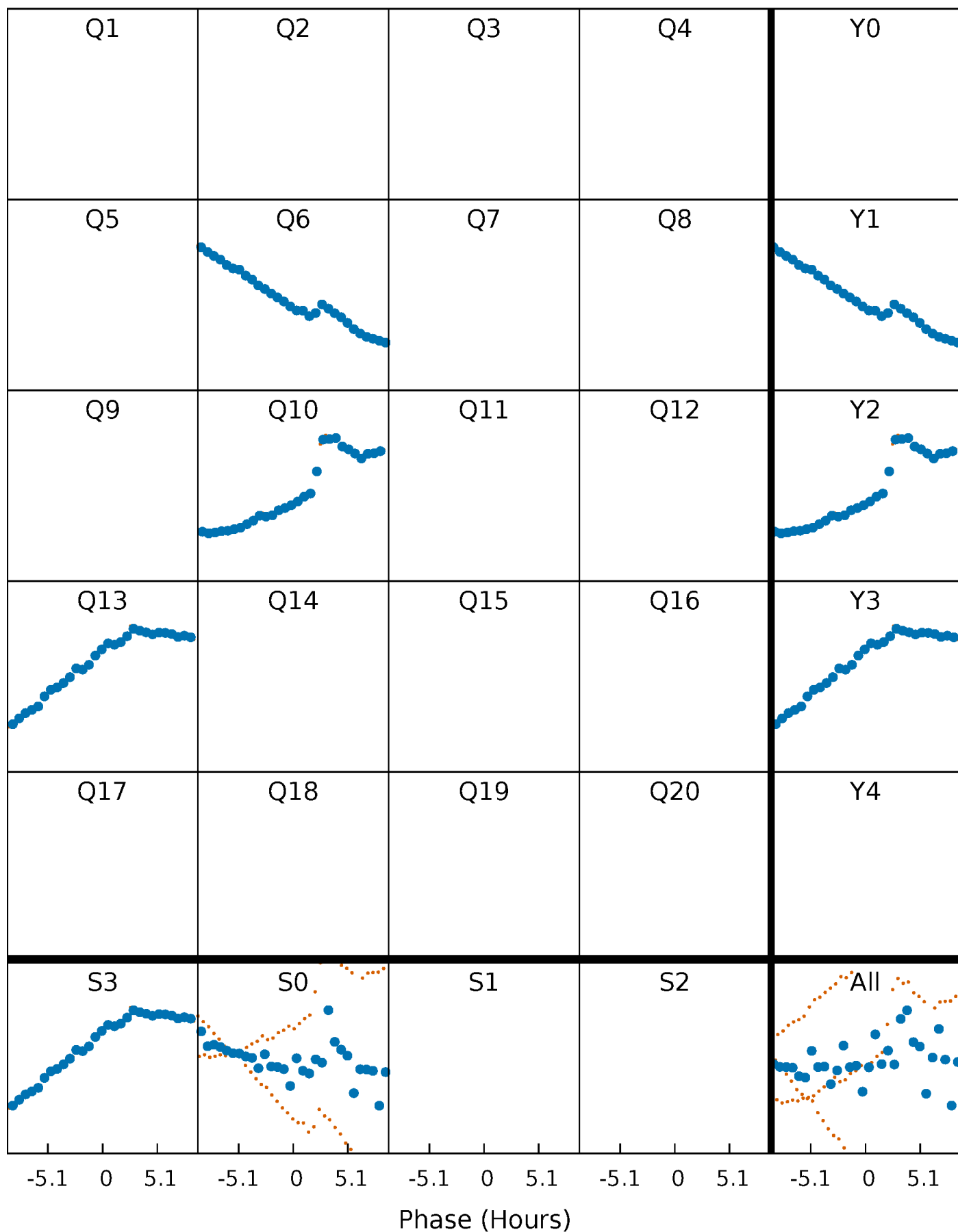


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



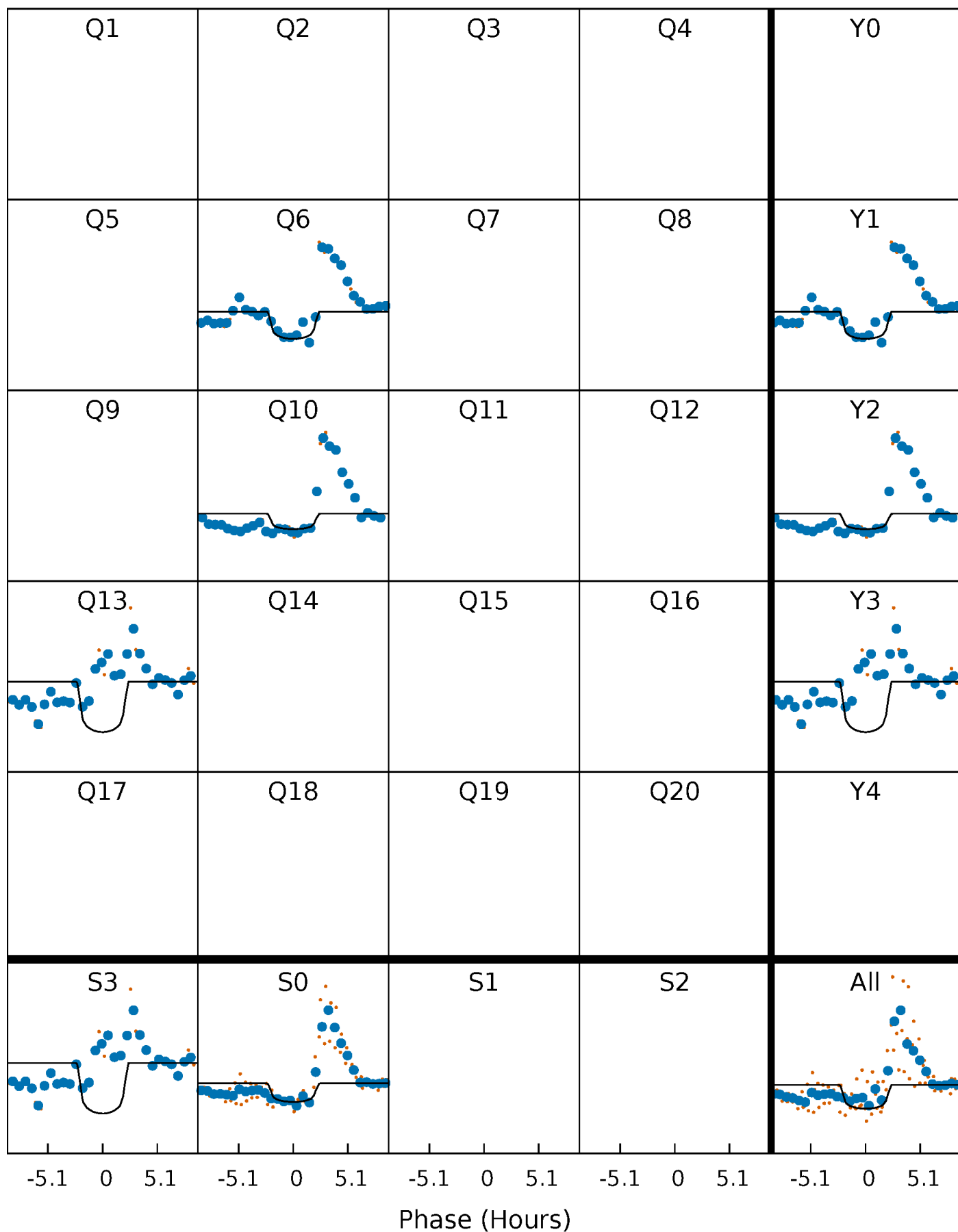
PDC Quarter-Phased Transit Curves

TCE 011924179-01 P=316.245230 Days $T_0=279.194586$ (BKJD)



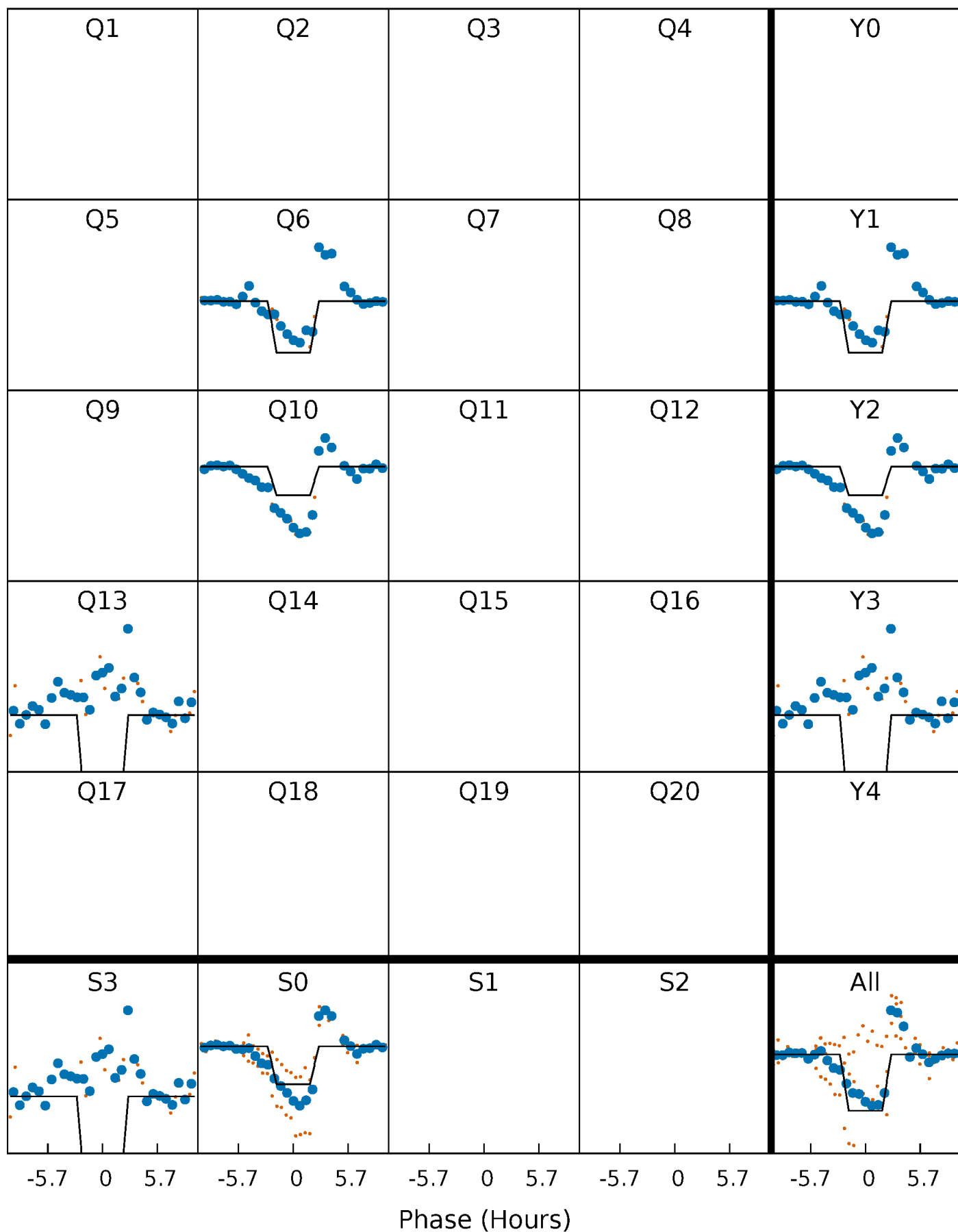
DV Quarter-Phased Transit Curves

TCE 011924179-01 P=316.245230 Days $T_0=279.194586$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

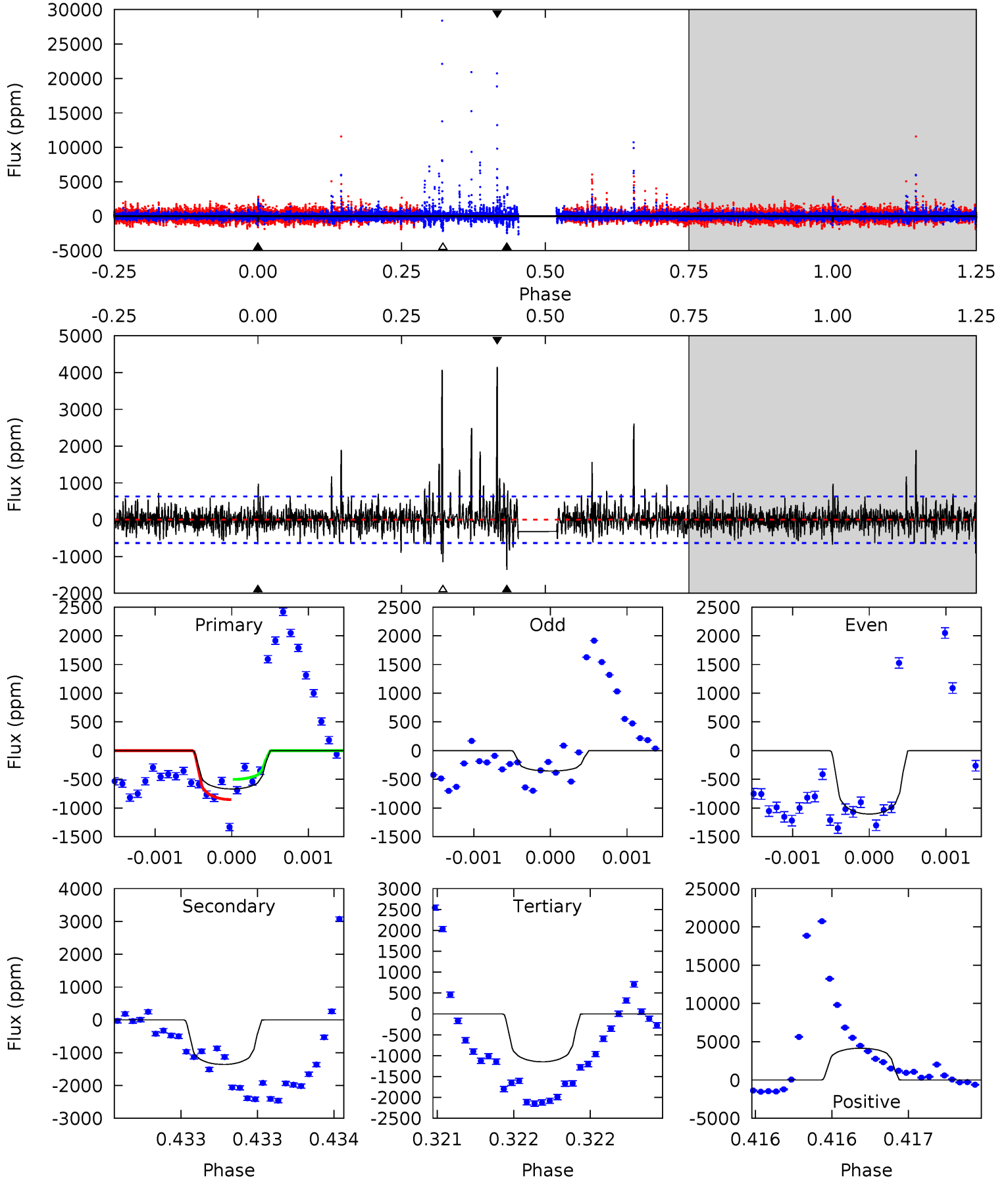
TCE 011924179-01 P=316.250208 Days $T_0=279.177253$ (BKJD)



DV Model-Shift Uniqueness Test

011924179-01, P = 316.245230 Days, E = 279.194586 Days

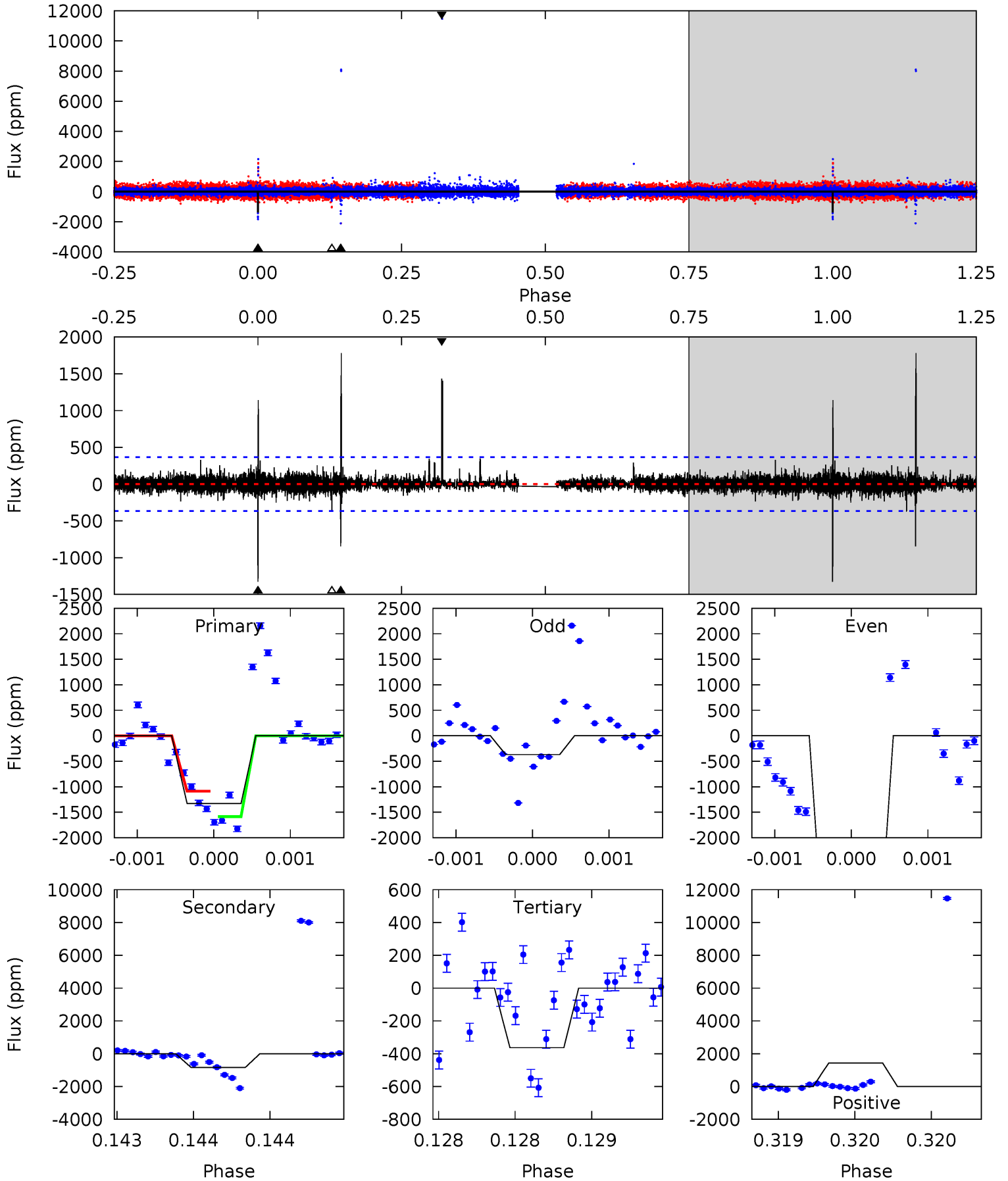
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.83	11.8	10.00	36.1	5.53	3.42	2.43	-4.17	-30.3	1.85	-24.3	2.90	0.68	0.75	1.50



Alt Model-Shift Uniqueness Test

011924179-01, P = 316.250208 Days, E = 279.177253 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.1	12.8	5.48	21.7	5.53	3.41	0.94	14.6	-1.59	7.29	-8.89	45.7	1.26	0.57	3.56



Stellar Parameters For KIC 011924179

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6106^{+215}_{-215}	$4.199^{+0.270}_{-0.180}$	$-0.500^{+0.300}_{-0.300}$	$1.250^{+0.341}_{-0.376}$	$0.900^{+0.139}_{-0.093}$	$0.649^{+1.042}_{-0.307}$
	+4%/-4%	+6%/-4%	+60%/-60%	+27%/-30%	+15%/-10%	+160%/-47%
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 011924179-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1361 ± 115	$4.44^{+3.14}_{-2.58}$	447^{+37}_{-42}	6398^{+4950}_{-1306}	$29376^{+143817}_{-19113}$
Alt.	-845 ± 66	$6.18^{+3.47}_{-3.08}$	449^{+37}_{-39}	4956^{+1792}_{-731}	9395^{+29195}_{-5507}

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 $A_{obs} \gg 1.0$

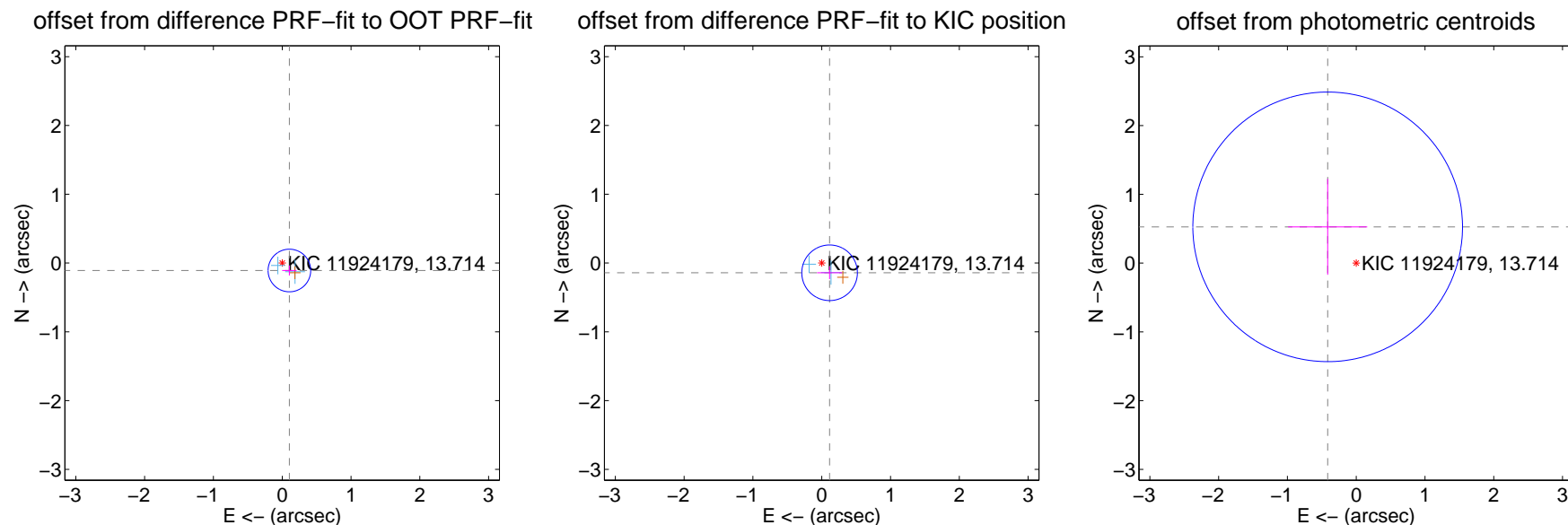
DV Centroid Data

Supplemental centroid analysis for 011924179-01. Kepler magnitude: 13.71. Transit SNR 7.07

There are 2 quarters with good PRF difference image offsets

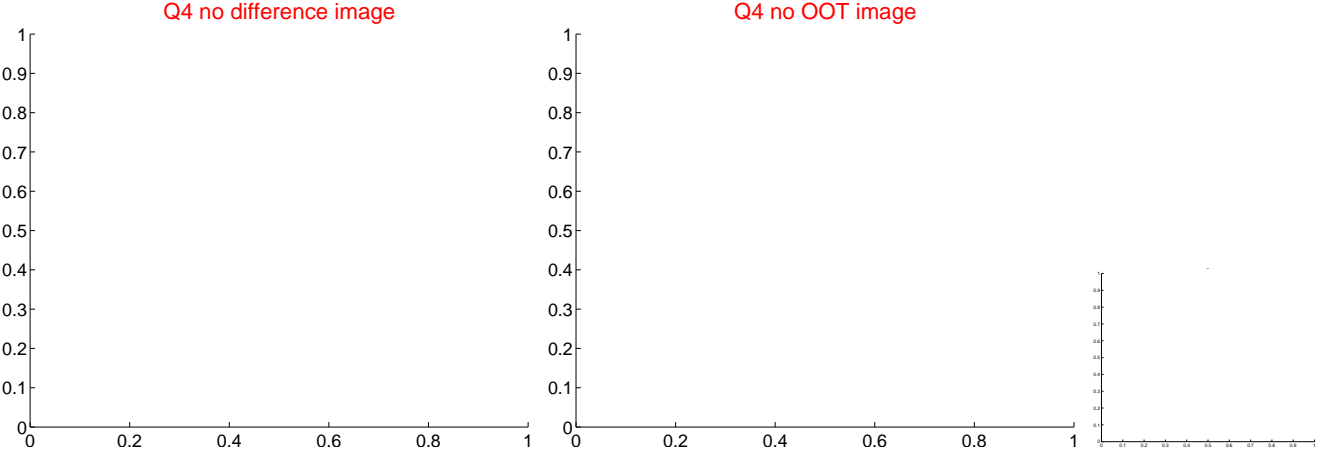
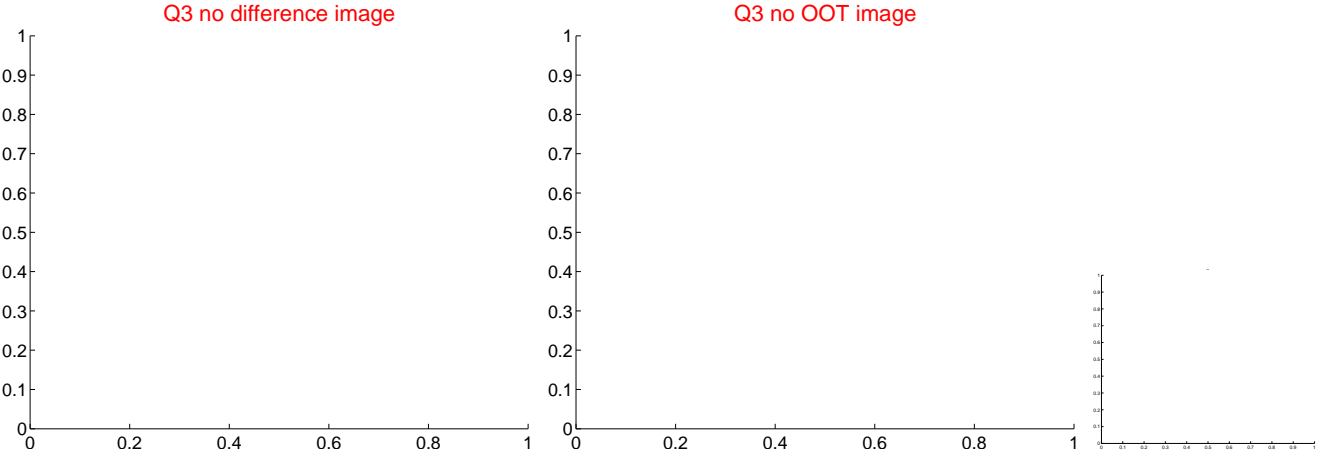
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.150 ± 0.103	1.46	-0.104 ± 0.105	-0.108 ± 0.074
PRF-fit source offset from KIC position	0.182 ± 0.135	1.35	-0.115 ± 0.182	-0.142 ± 0.092
photometric centroid source offset	0.67 ± 0.65	1.03	0.41 ± 0.58	0.53 ± 0.70

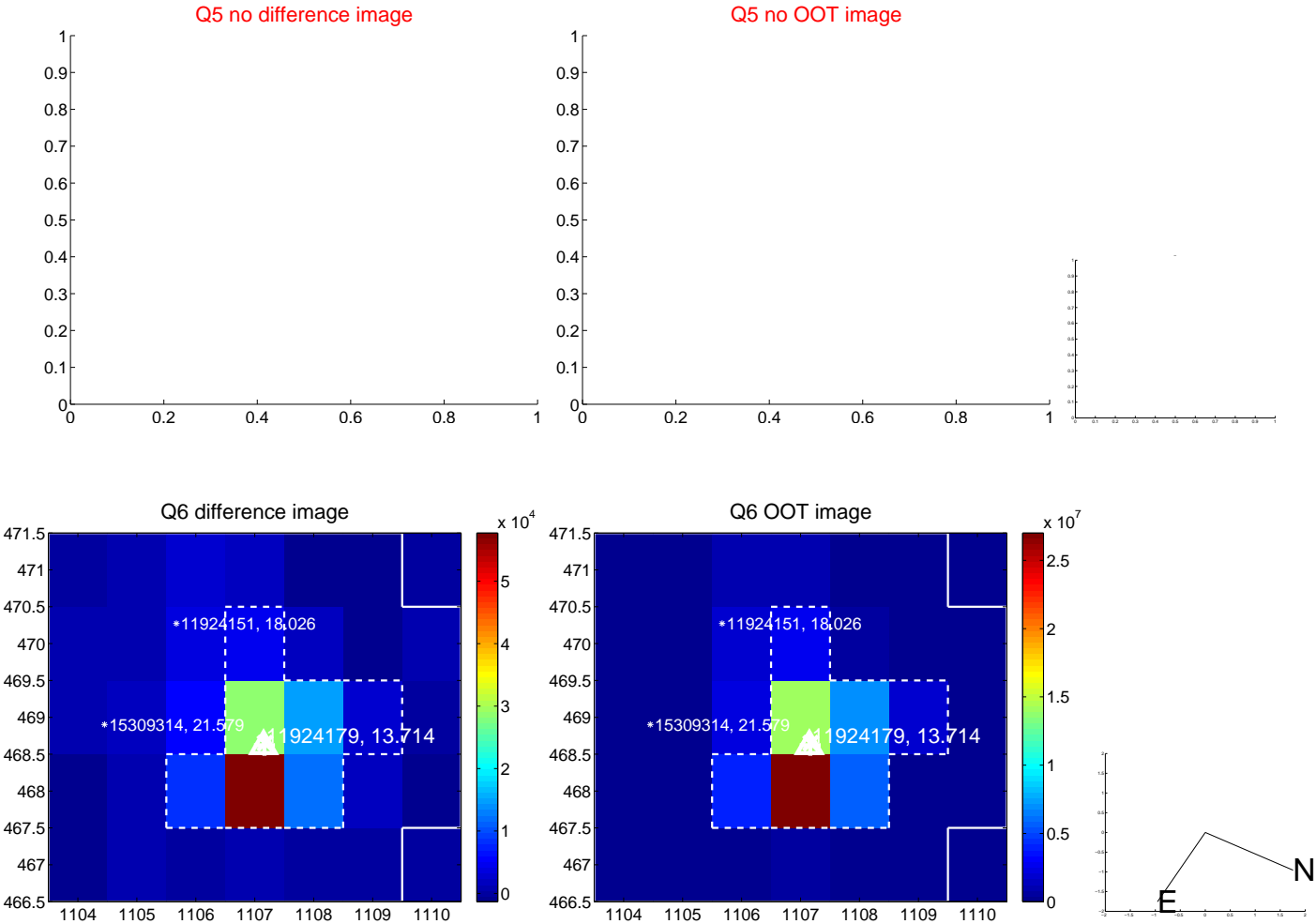


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

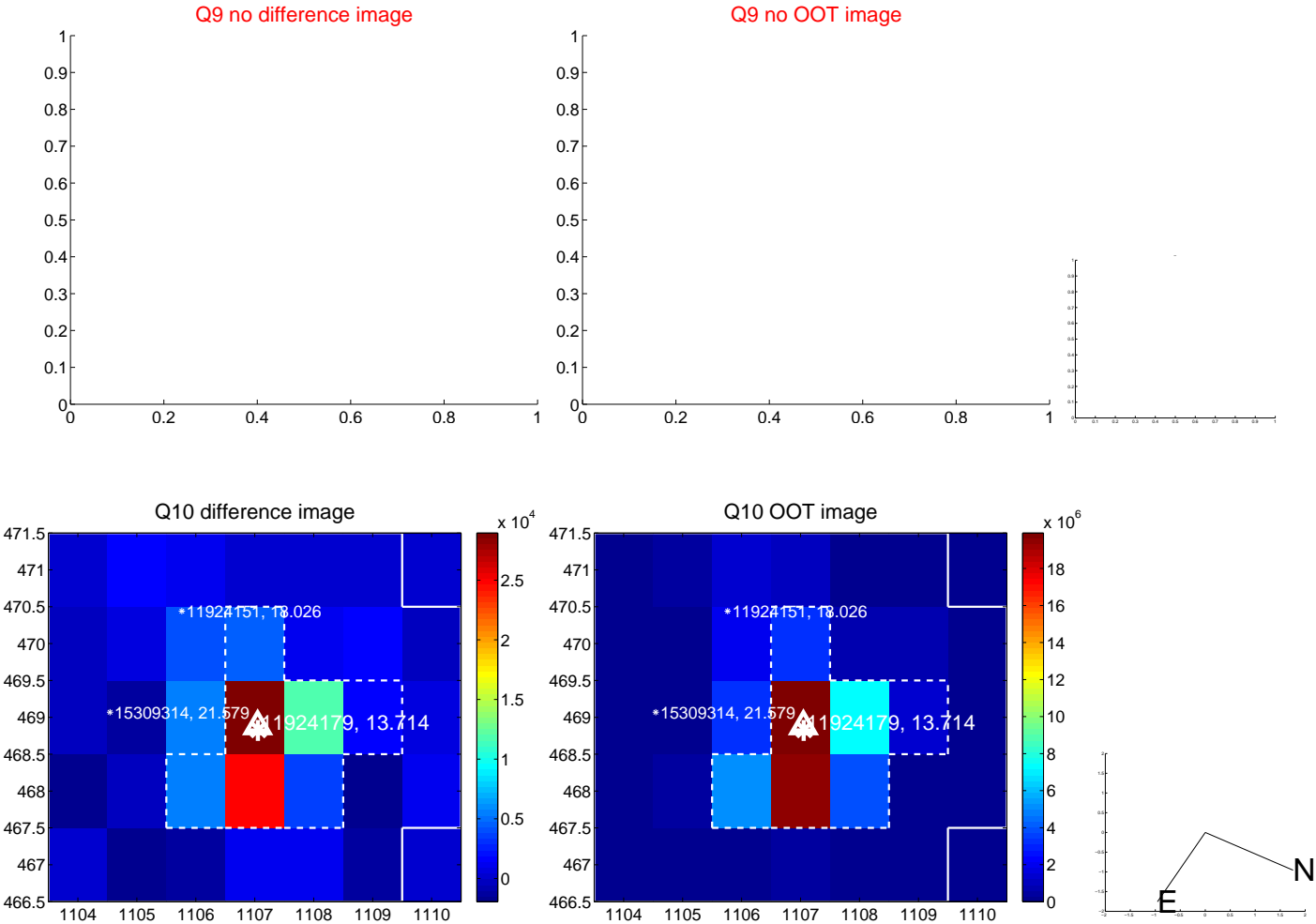
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



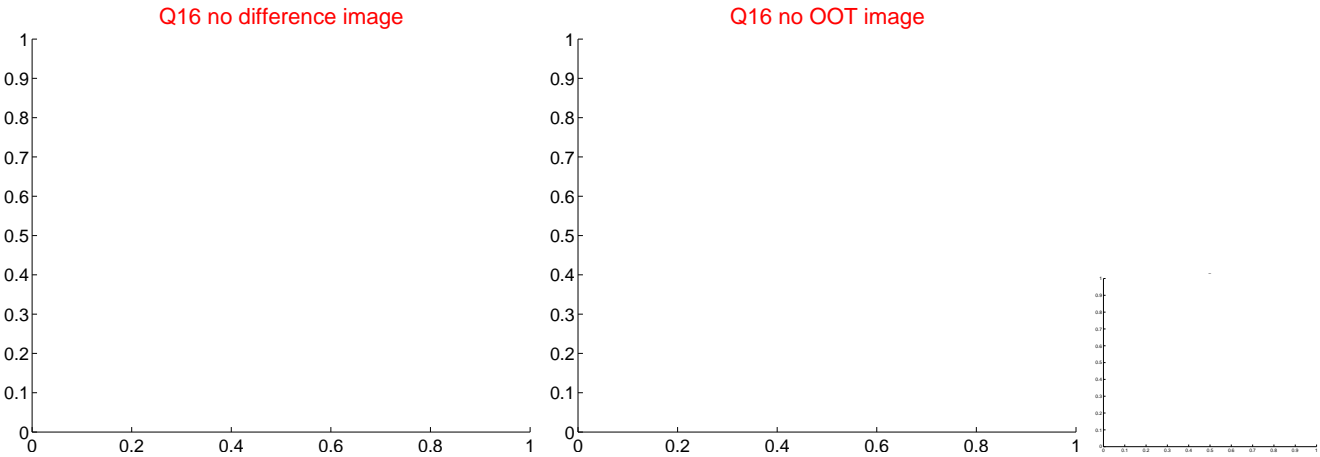
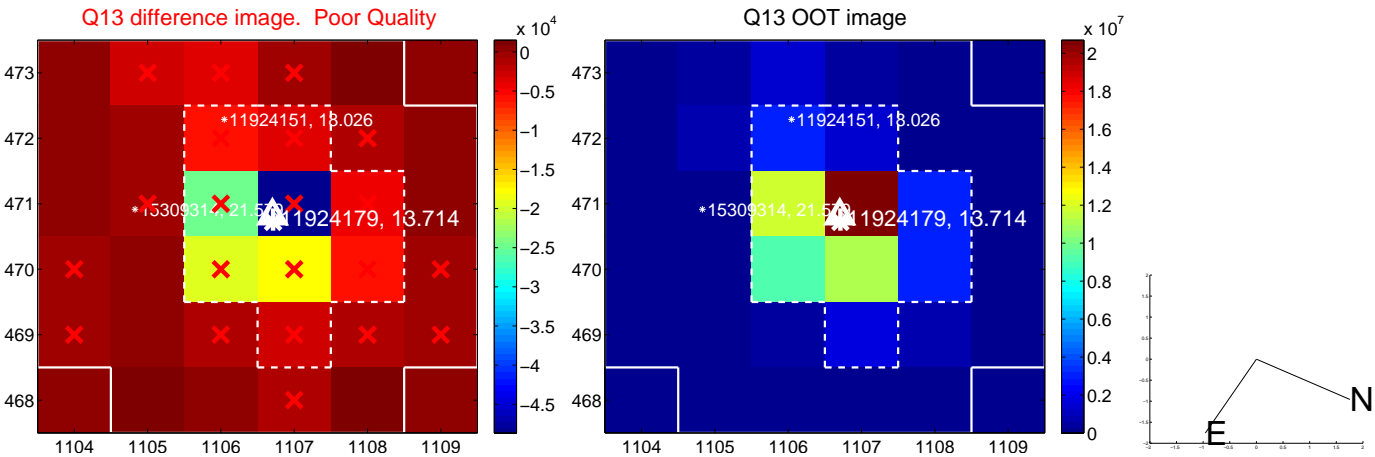
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



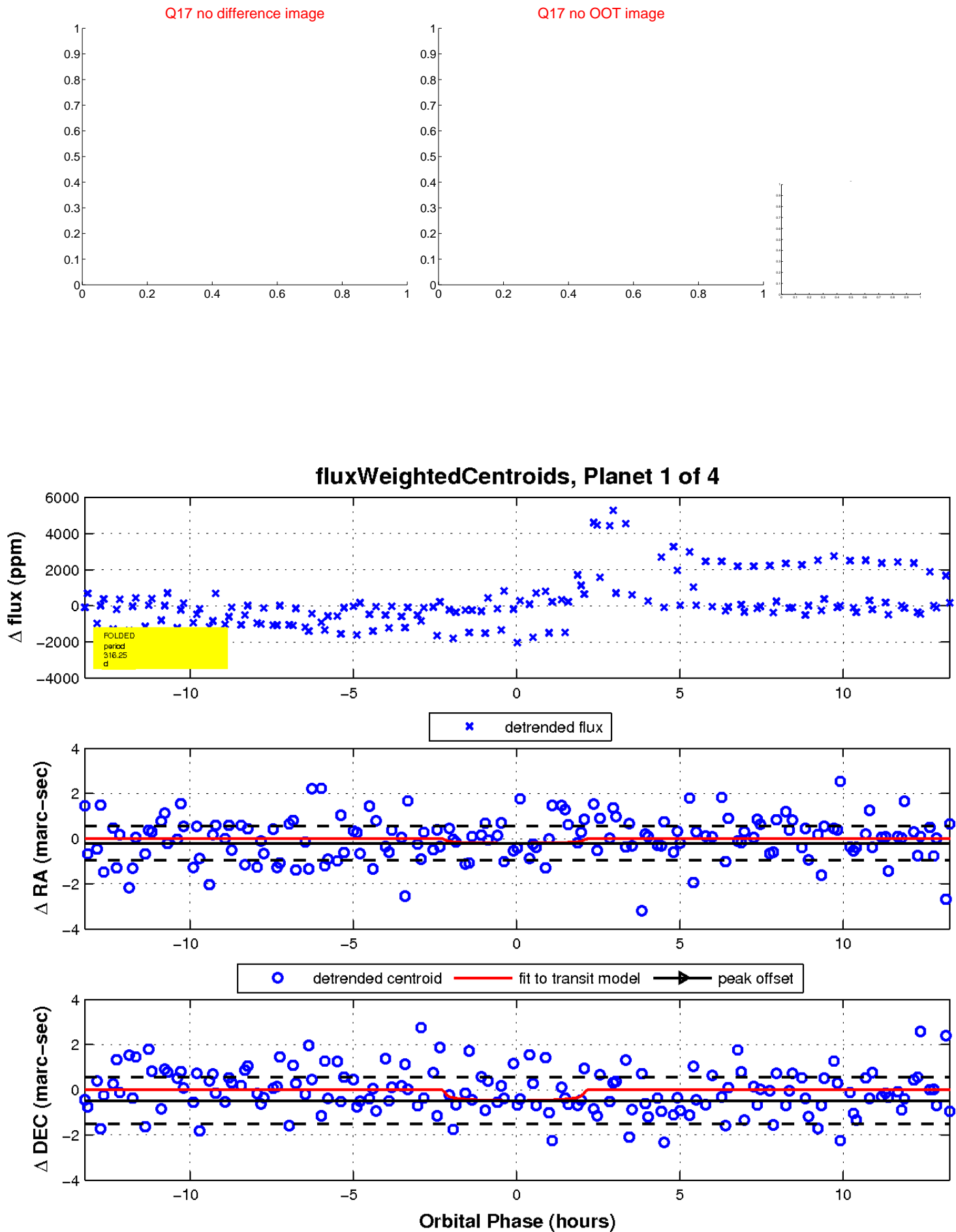
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

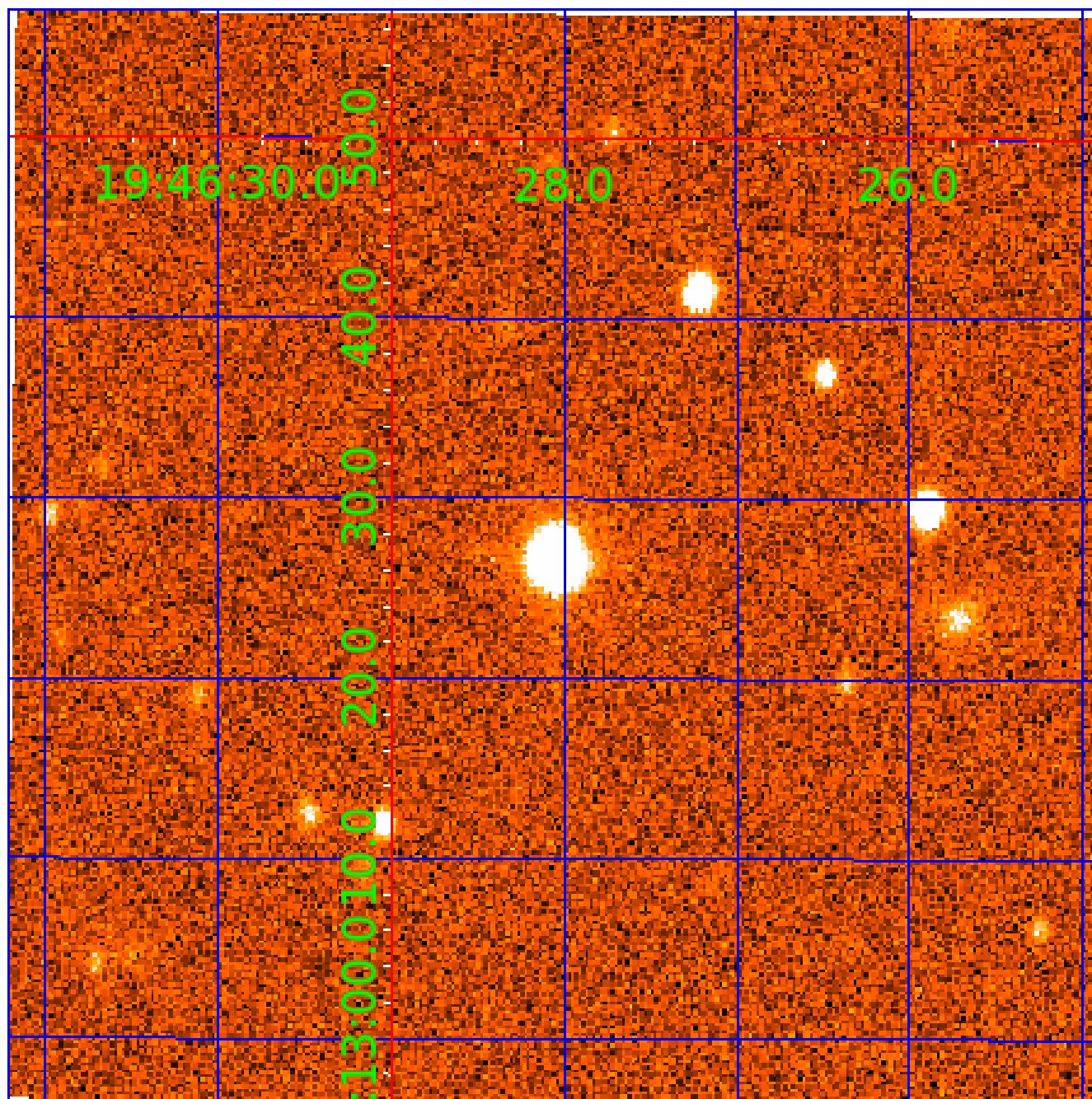


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011924179

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})
011924179-01	OBS	No	316.245230	279.194586	1056.2	4.441	17.6	7.1	1.25	6106	4.20	2.53
011924179-02	OBS	No	261.312390	320.064918	1267.1	3.173	15.5	9.4	1.25	6106	4.46	3.26
011924179-03	OBS	No	190.672041	169.161027	690.8	2.349	11.7	5.3	1.25	6106	3.57	4.96

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011924179-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011924179-02	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—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011924179-03	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—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

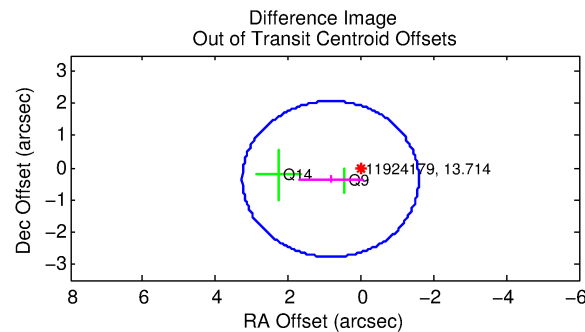
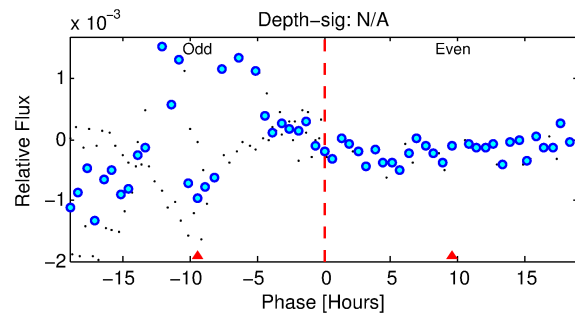
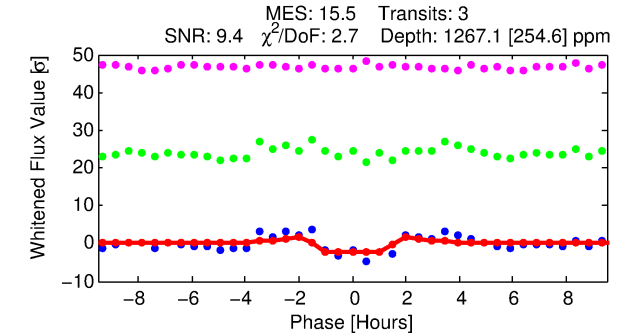
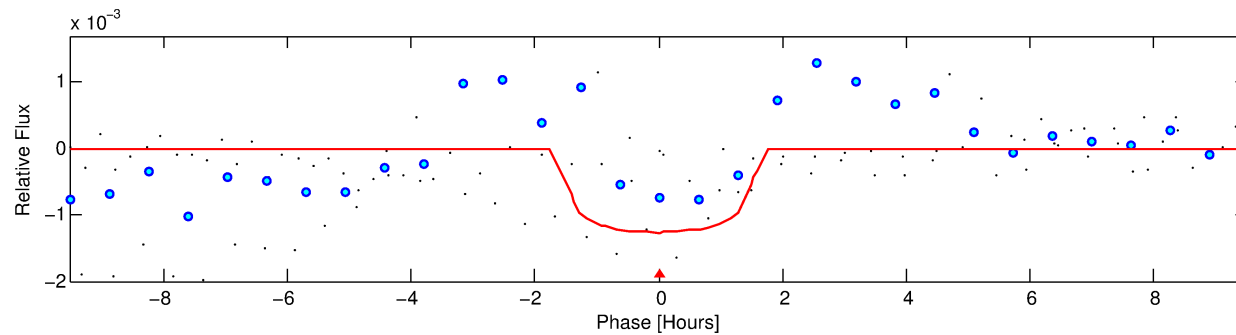
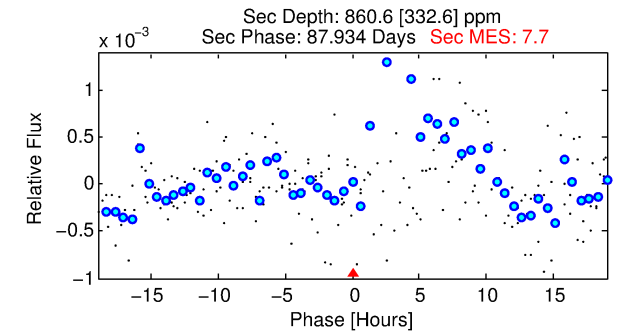
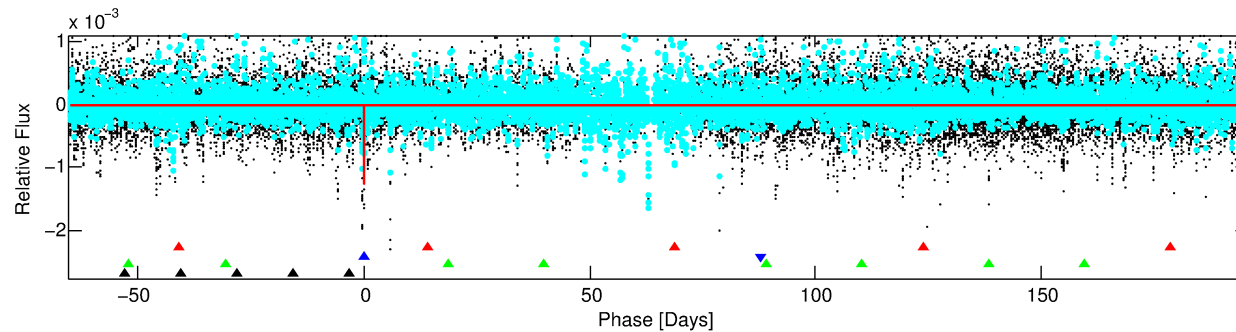
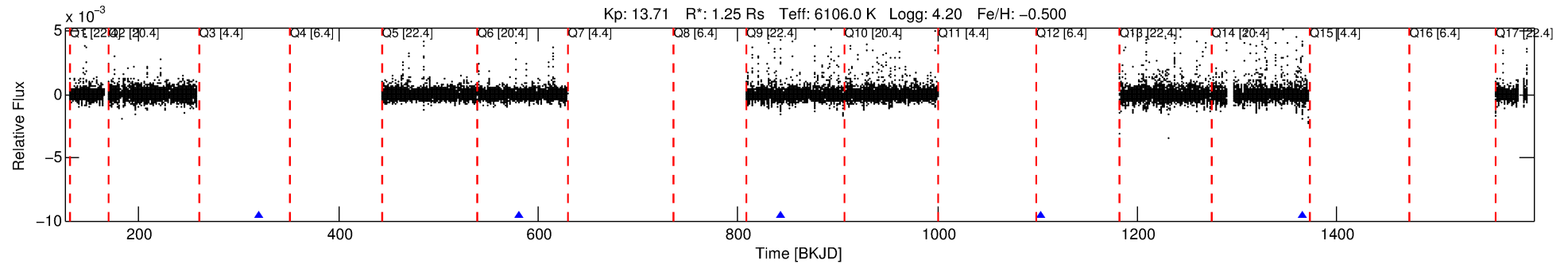
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011924179-02

No Significant Match Found

DV One-Page Summary

KIC: 11924179 Candidate: 2 of 4 Period: 261.312 d



DV Fit Results:

Period = 261.31239 [0.00287] d
Epoch = 320.0649 [0.0090] BKJD
Rp/R* = 0.0327 [0.0602]
a/R* = 649.68 [5942.07]
b = 0.01 [1441.25]
Seff = 3.26 [1.57]
Teq = 343 [41] K
Rp = 4.46 [8.31] Re
a = 0.7728 [0.2229] AU
Ag = 14227.43 [53061.95] [0.27 σ]
Teffp = 5785 [5356] K [1.02 σ]

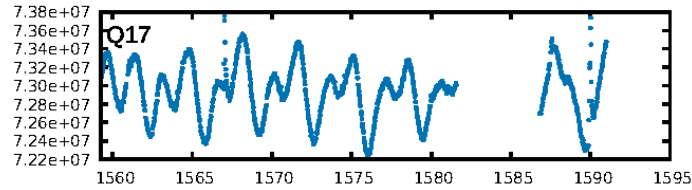
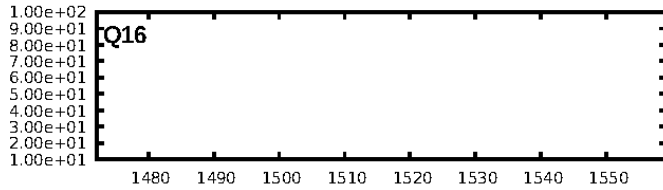
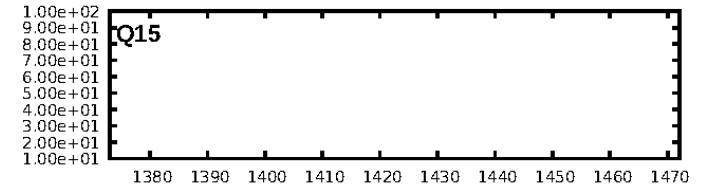
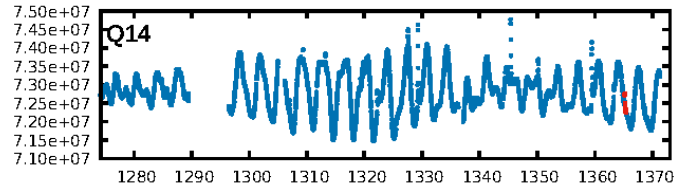
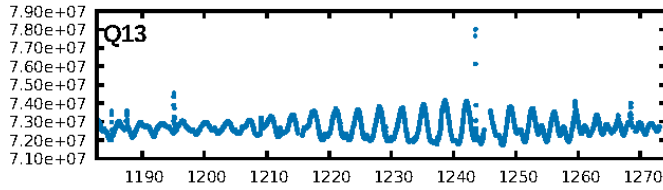
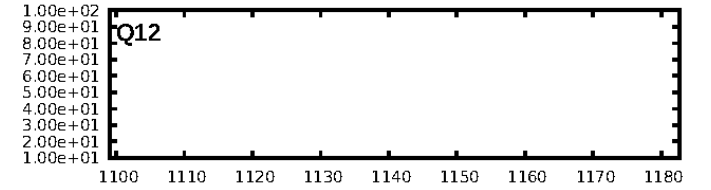
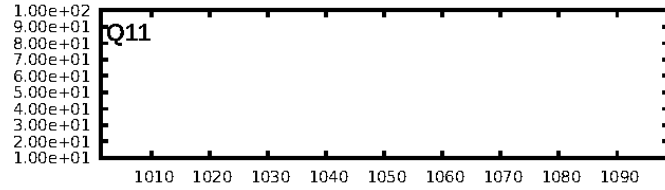
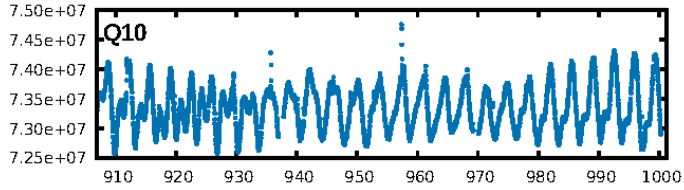
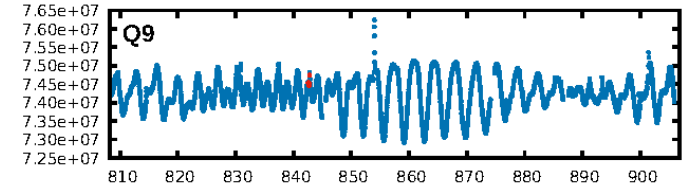
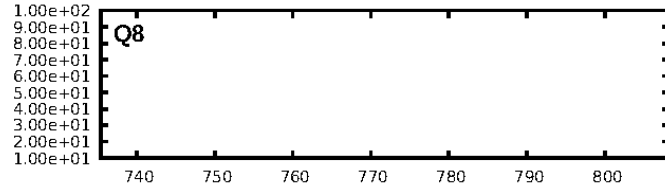
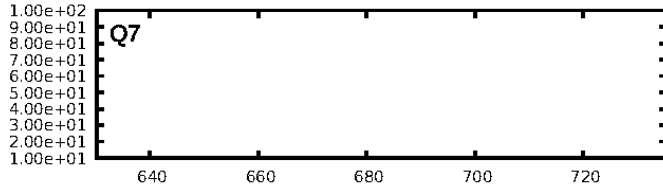
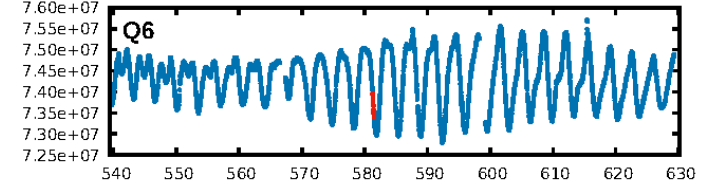
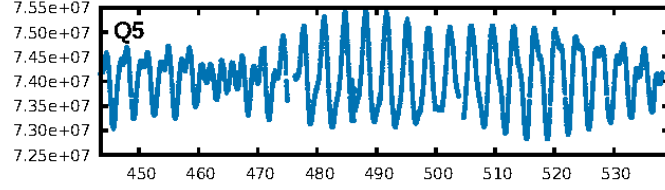
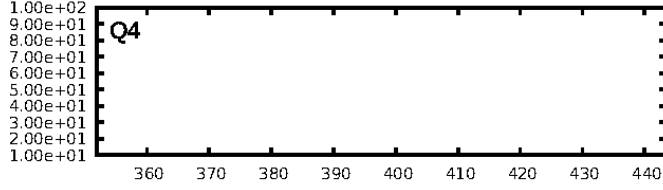
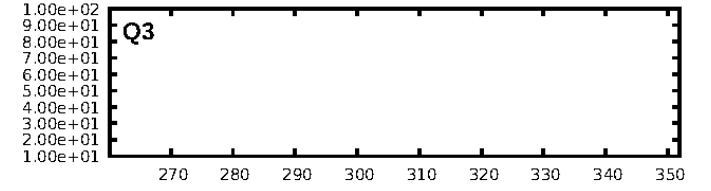
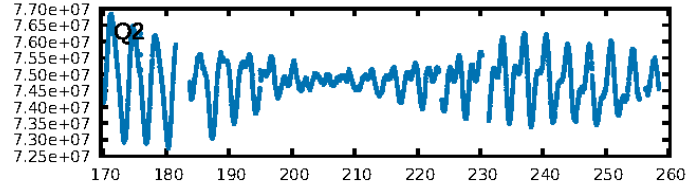
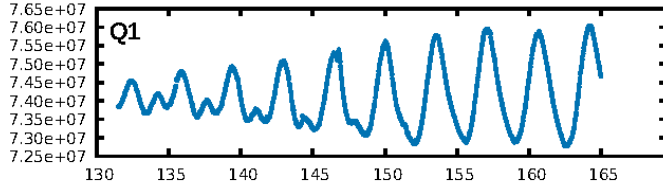
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [429.42 σ]
LongPeriod-sig: 100.0% [61.33 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.6%
Bootstrap-pfa: 7.34e-15
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -2.646
Centroid-sig: 40.9%
Centroid-so: 0.551 arcsec [0.82 σ]
OotOffset-rm: 0.909 arcsec [1.12 σ]
KicOffset-rm: 0.912 arcsec [1.06 σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

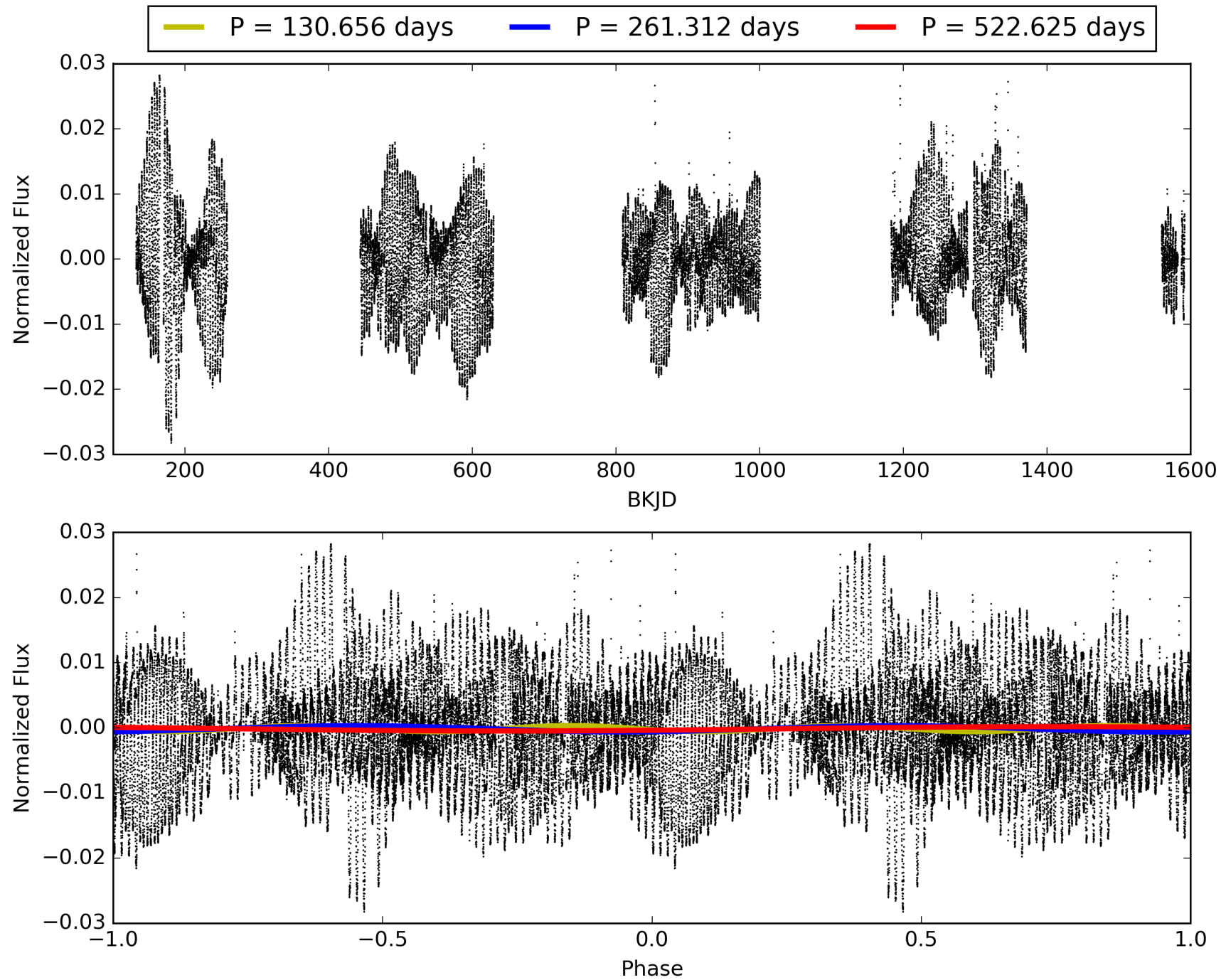
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 03:39:47 Z

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

TCE 011924179-02, PDC Light Curves

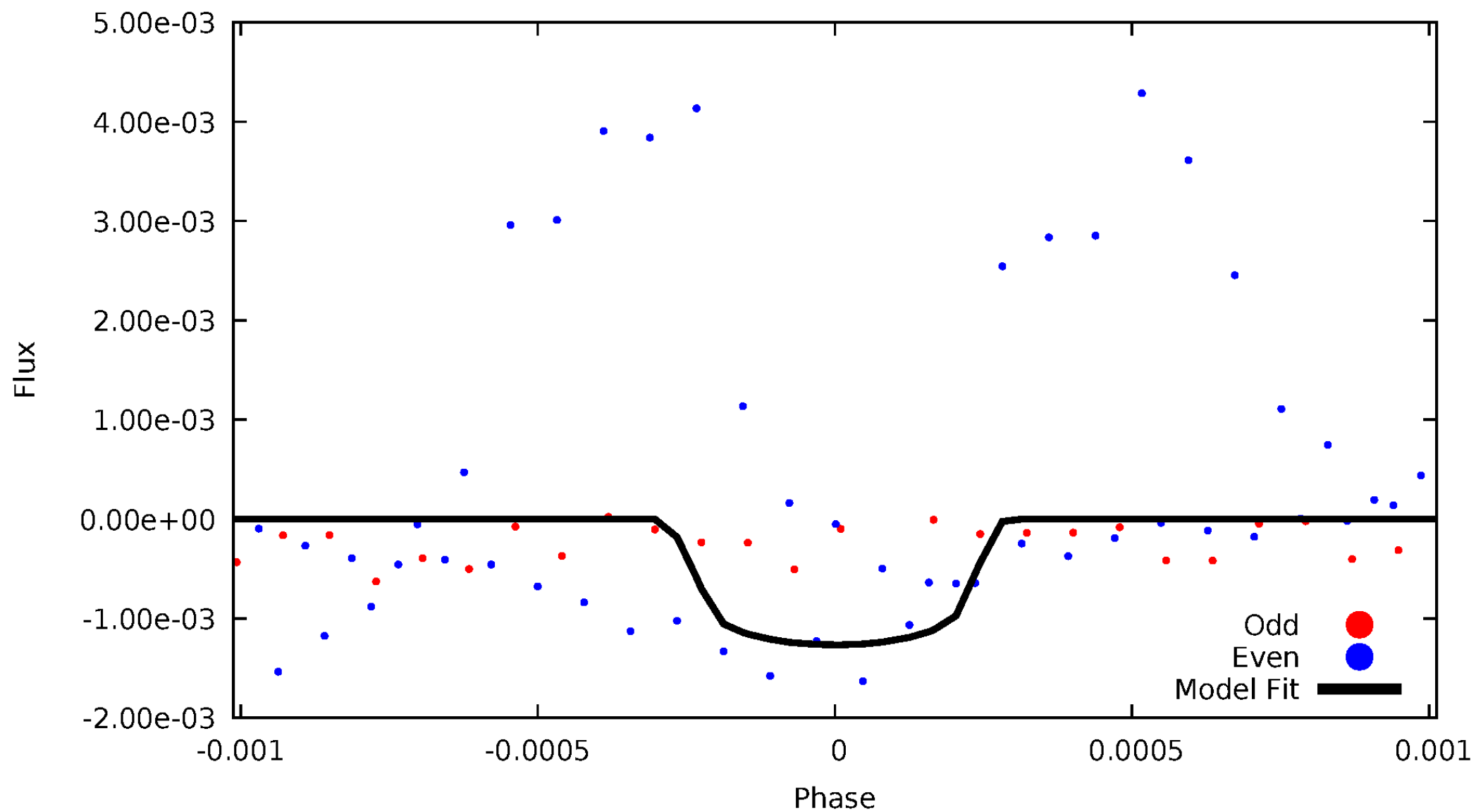


TCE 011924179-02



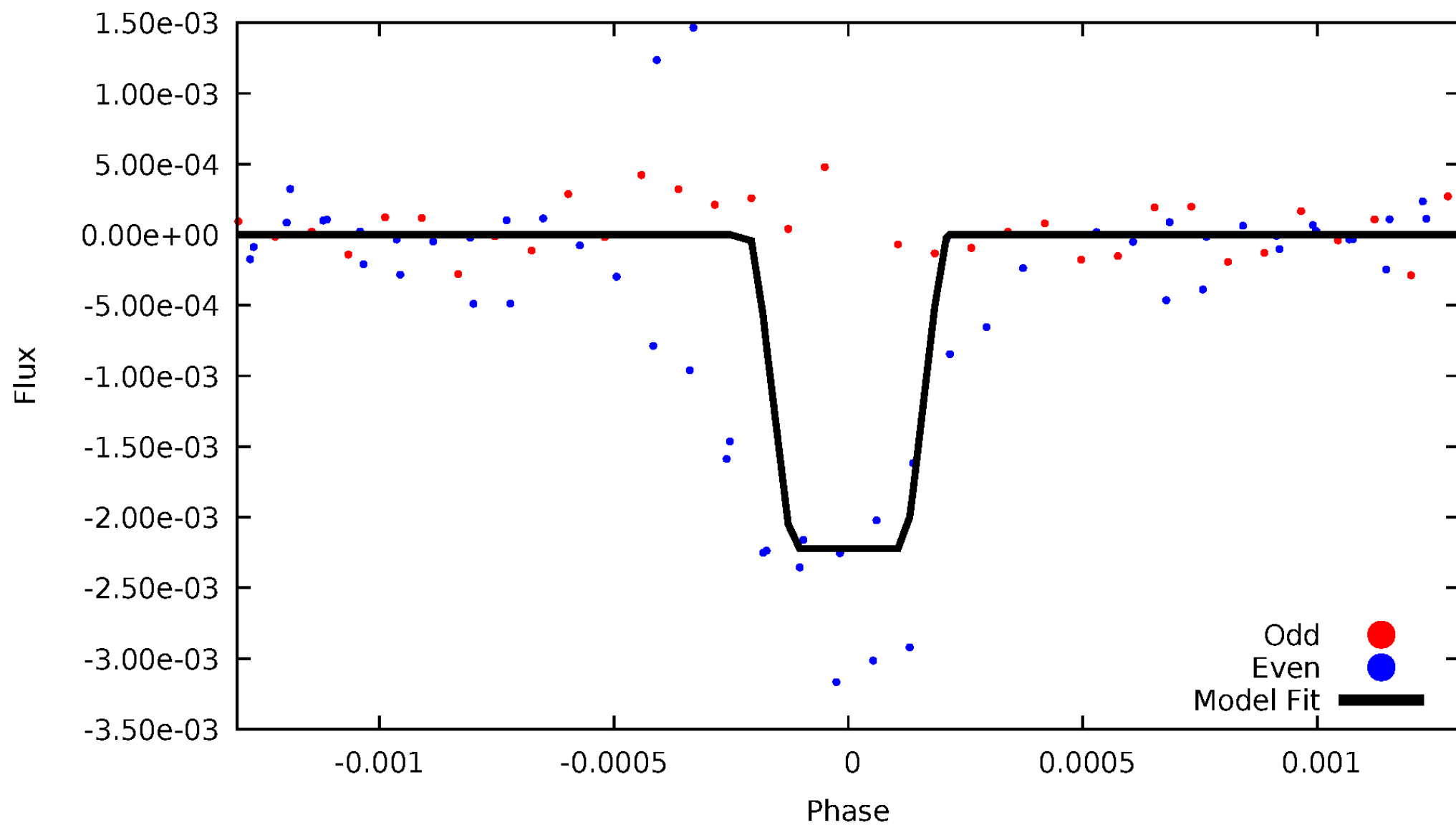
DV Odd/Even

TCE 011924179-02



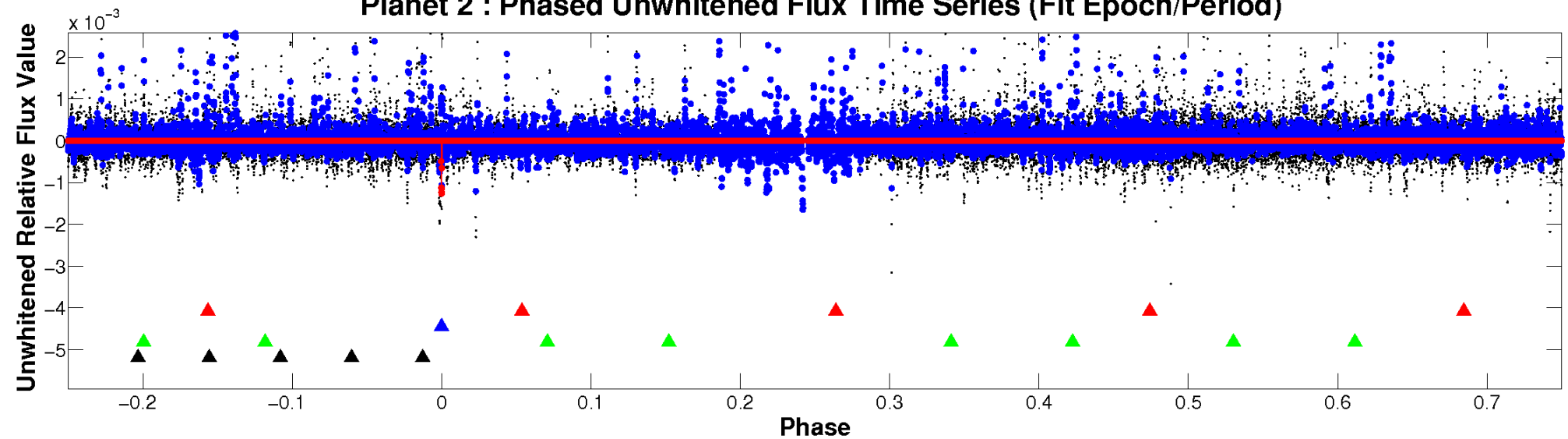
ALT Odd/Even

TCE 011924179-02

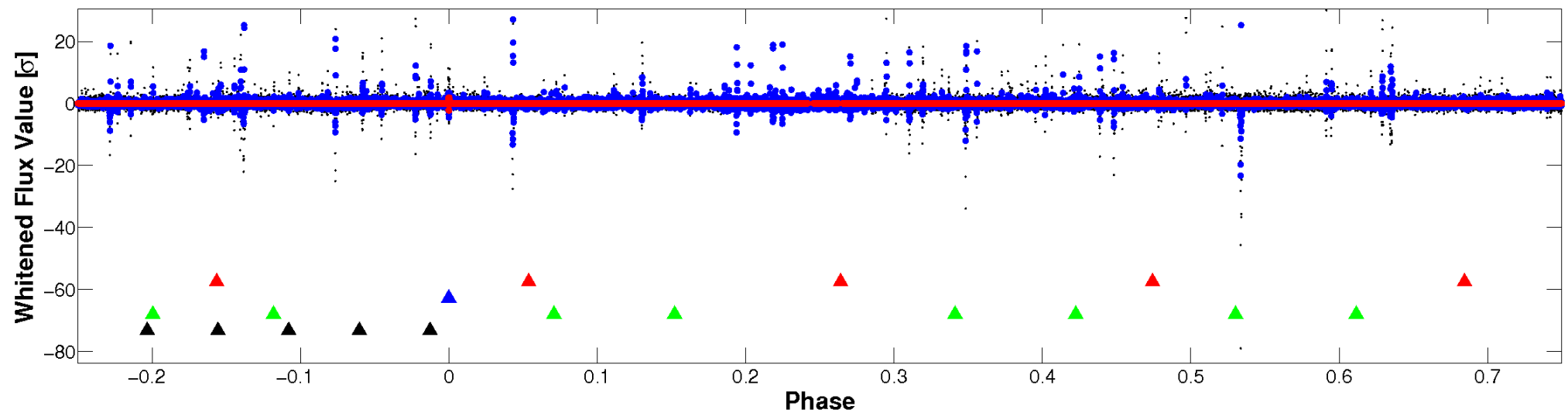


Non-Whitened Vs. Whitened Light Curve

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

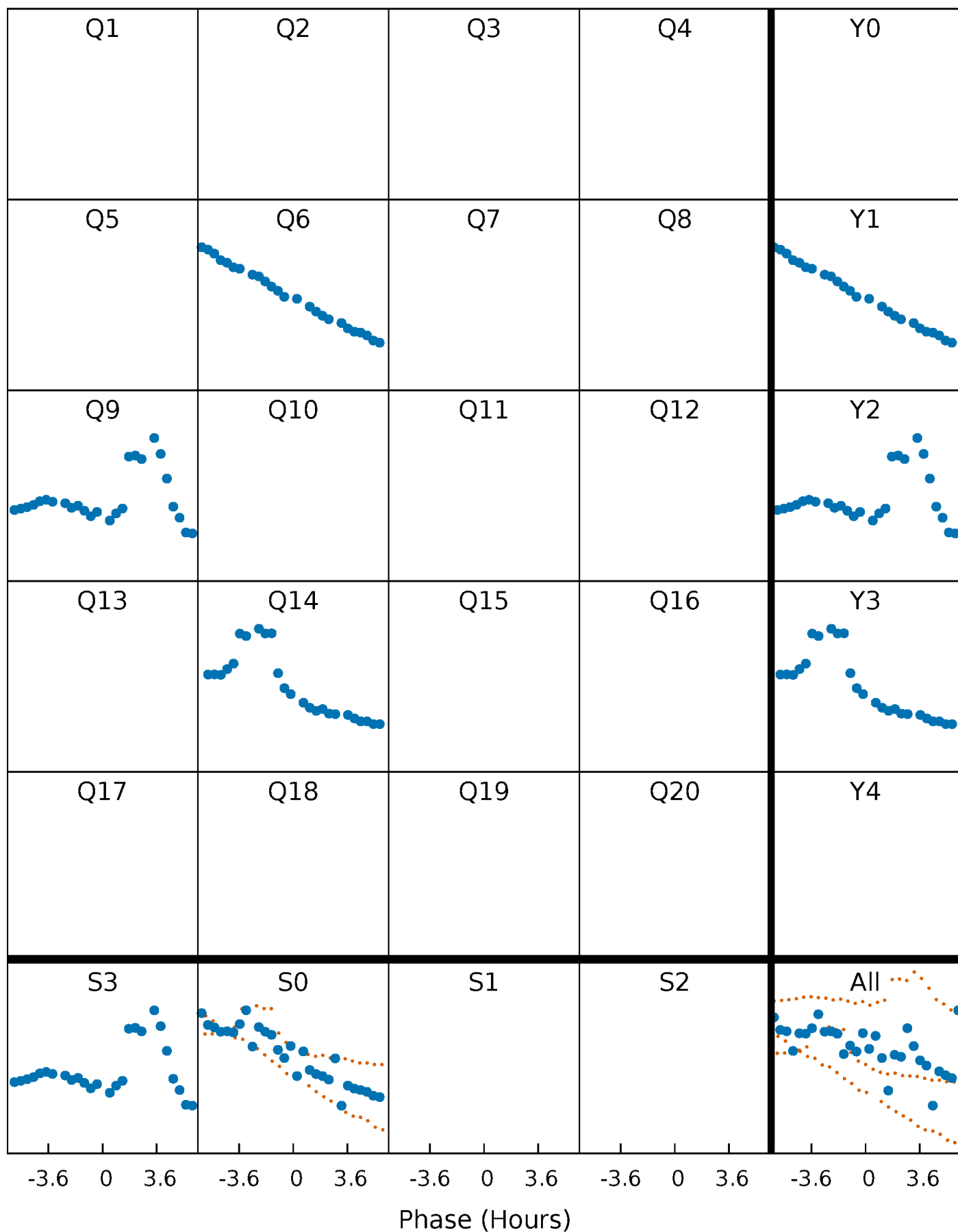


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



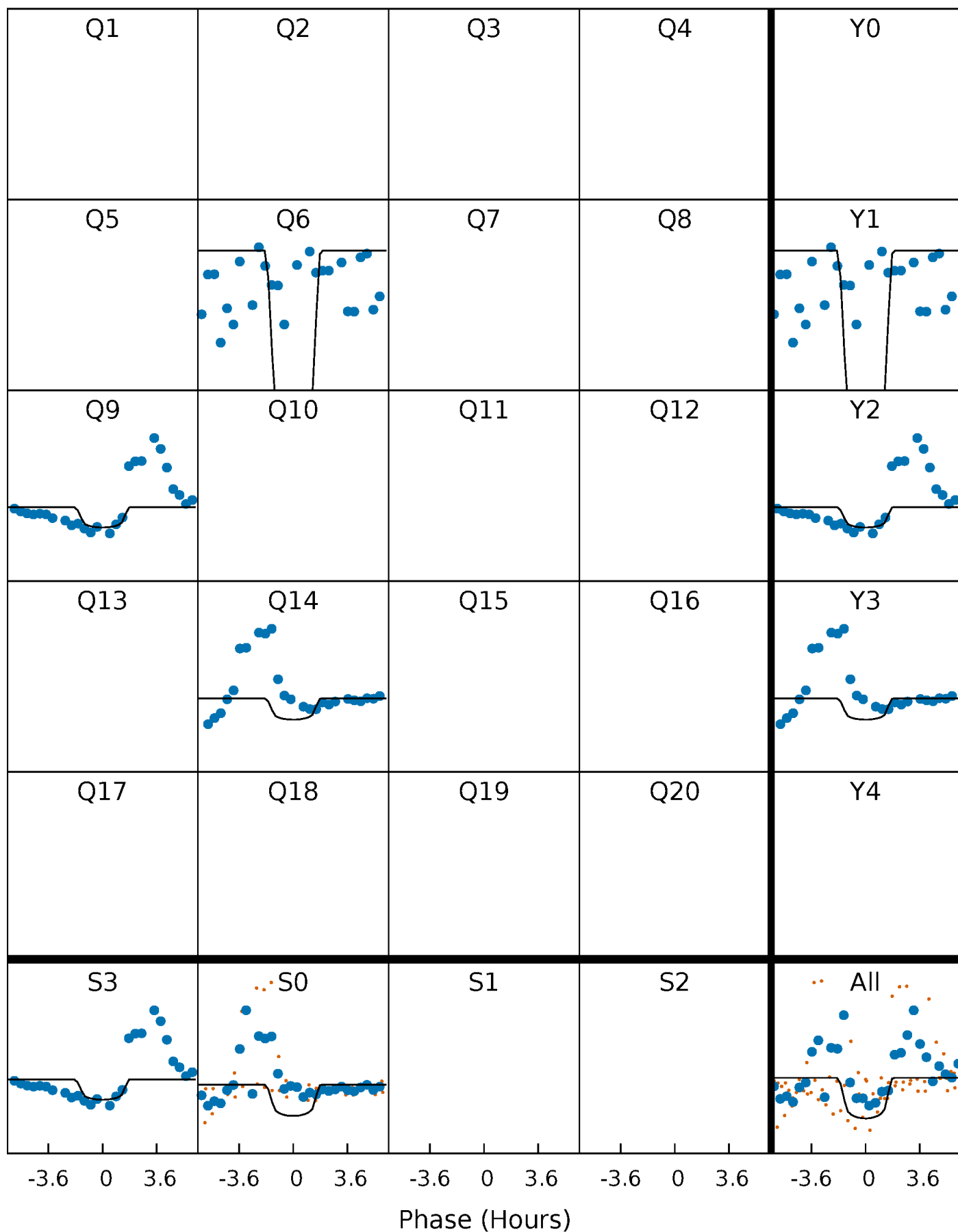
PDC Quarter-Phased Transit Curves

TCE 011924179-02 P=261.312390 Days $T_0=320.064918$ (BKJD)



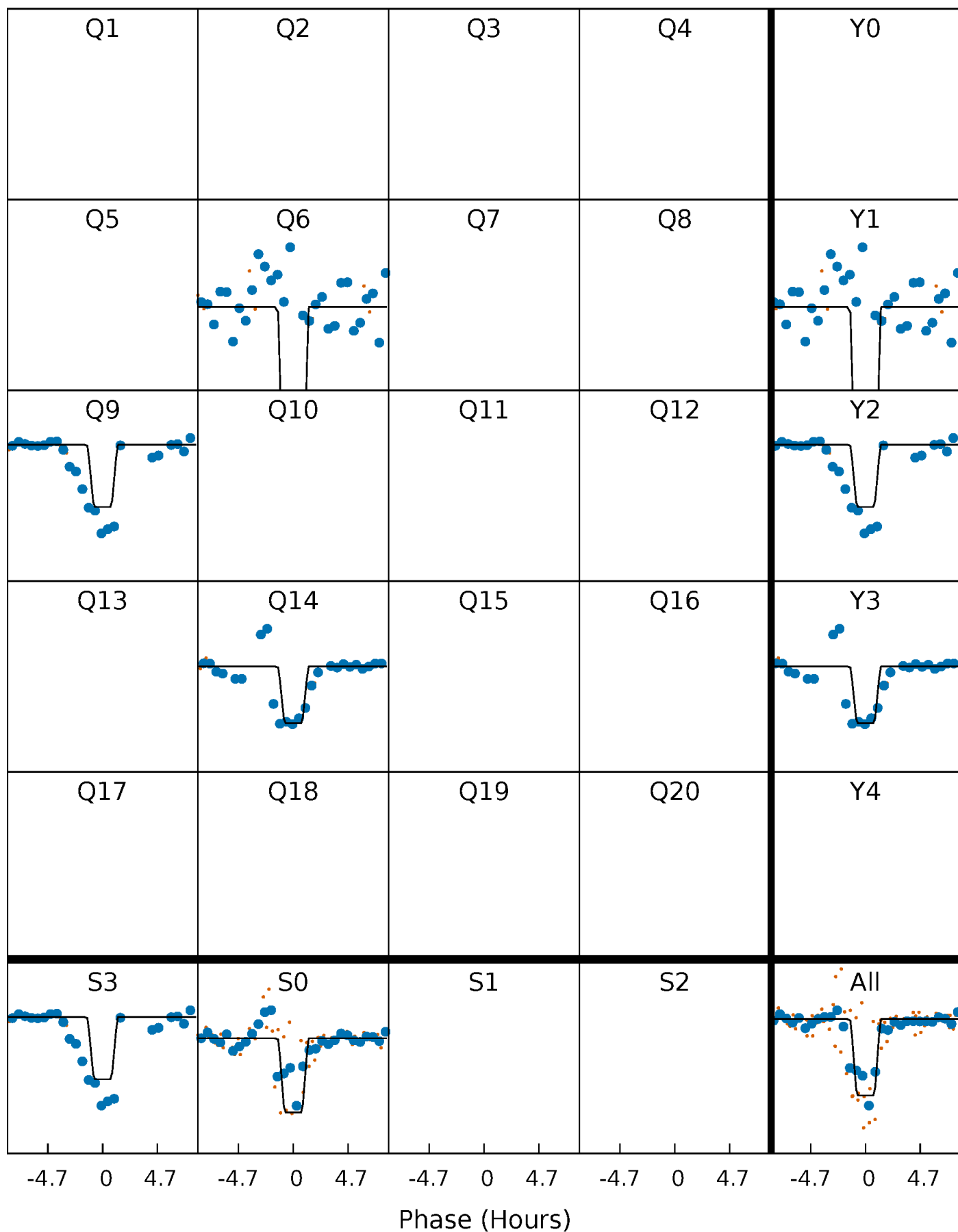
DV Quarter-Phased Transit Curves

TCE 011924179-02 P=261.312390 Days $T_0=320.064918$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

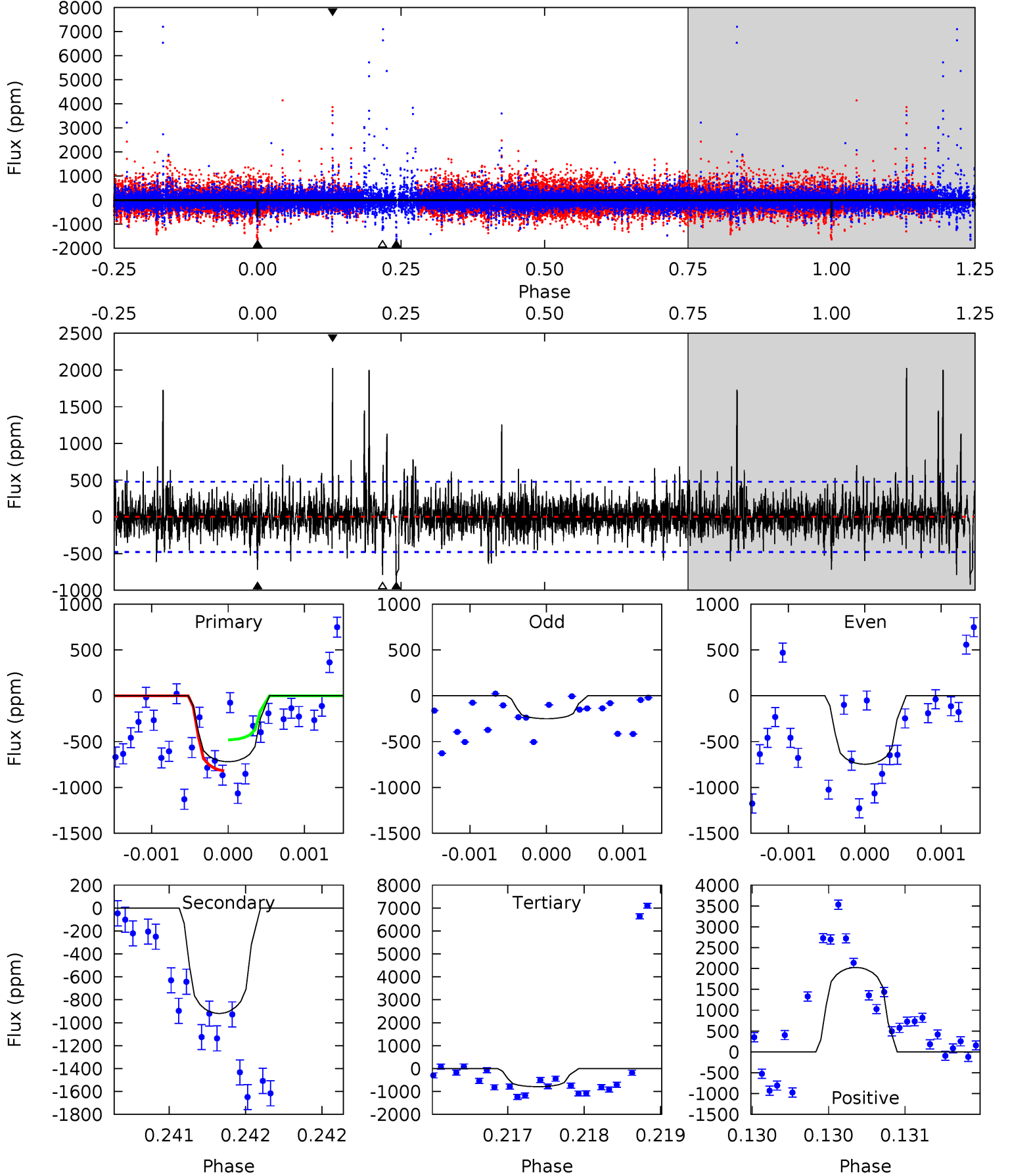
TCE 011924179-02 P=261.315662 Days $T_0=320.077369$ (BKJD)



DV Model-Shift Uniqueness Test

011924179-02, P = 261.312390 Days, E = 58.752528 Days

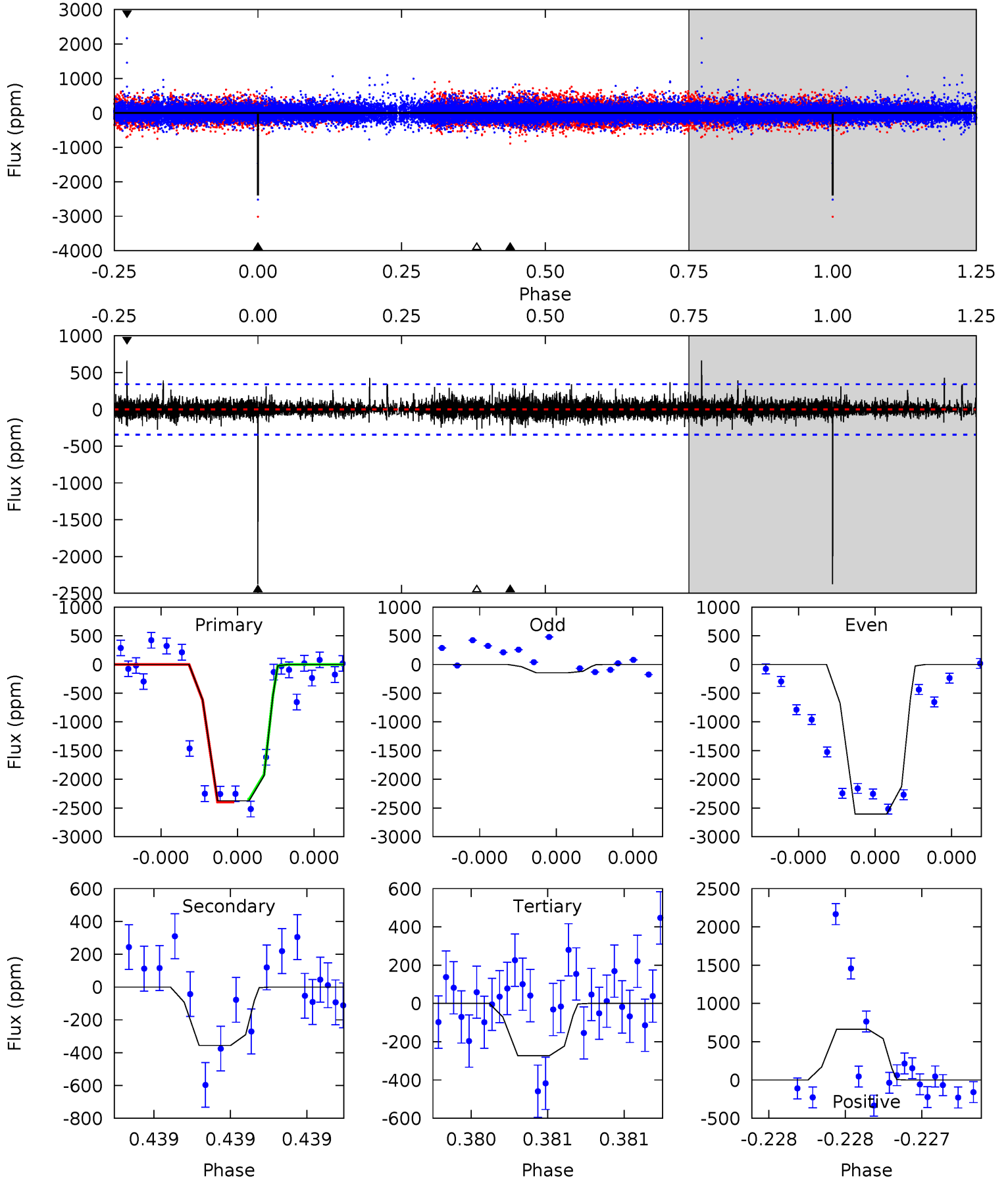
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.32	10.6	9.16	23.4	5.55	3.44	2.06	-0.83	-15.1	1.49	-12.8	1.97	1.72	0.69	1.89



Alt Model-Shift Uniqueness Test

011924179-02, P = 261.315662 Days, E = 58.761707 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.9	5.83	4.47	10.8	5.61	3.54	1.04	34.4	28.0	1.36	-5.01	23.1	0.76	0.22	0.38



Stellar Parameters For KIC 011924179

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6106^{+215}_{-215}	$4.199^{+0.270}_{-0.180}$	$-0.500^{+0.300}_{-0.300}$	$1.250^{+0.341}_{-0.376}$	$0.900^{+0.139}_{-0.093}$	$0.649^{+1.042}_{-0.307}$
	+4%/-4%	+6%/-4%	+60%/-60%	+27%/-30%	+15%/-10%	+160%/-47%
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 011924179-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-920 ± 86	$6.93^{+6.98}_{-4.48}$	477^{+41}_{-42}	4746^{+3382}_{-1020}	6428^{+45096}_{-4919}
Alt.	-356 ± 61	$8.96^{+7.99}_{-5.56}$	480^{+43}_{-42}	3717^{+1640}_{-638}	1543^{+9160}_{-1120}

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 $A_{obs} \gg 1.0$

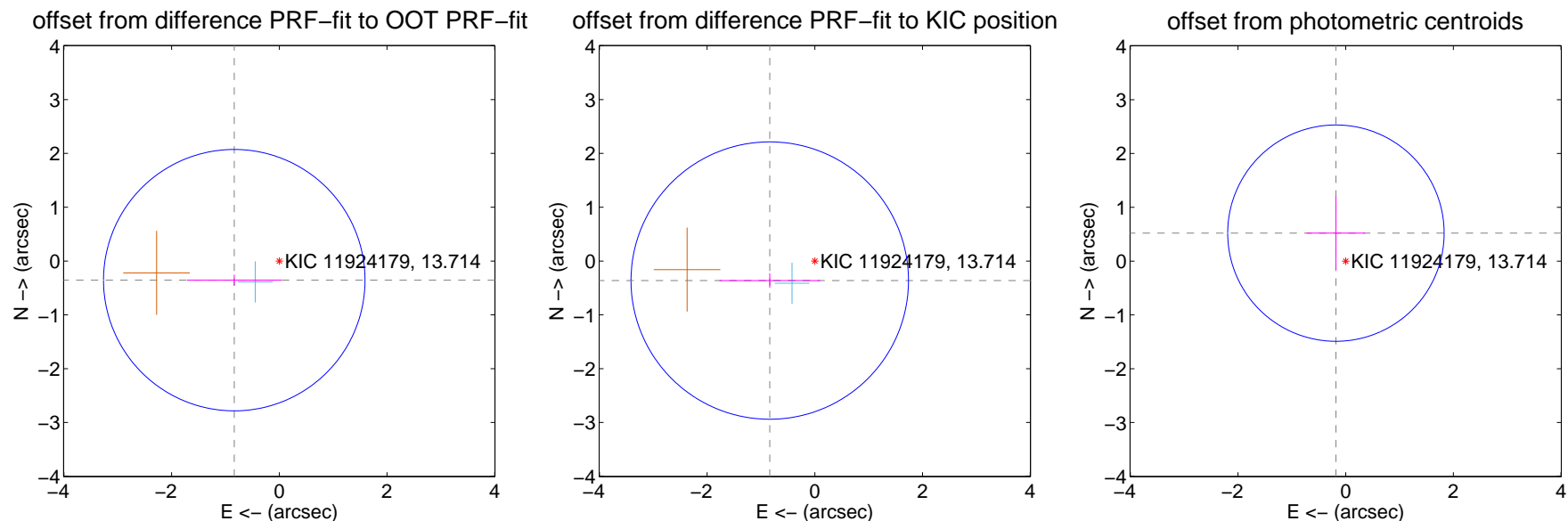
DV Centroid Data

Supplemental centroid analysis for 011924179-02. Kepler magnitude: 13.71. Transit SNR 9.38

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	0.909 ± 0.810	1.12	0.837 ± 0.879	-0.355 ± 0.102
PRF-fit source offset from KIC position	0.912 ± 0.859	1.06	0.837 ± 0.934	-0.363 ± 0.134
photometric centroid source offset	0.55 ± 0.67	0.82	0.18 ± 0.54	0.52 ± 0.68



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.

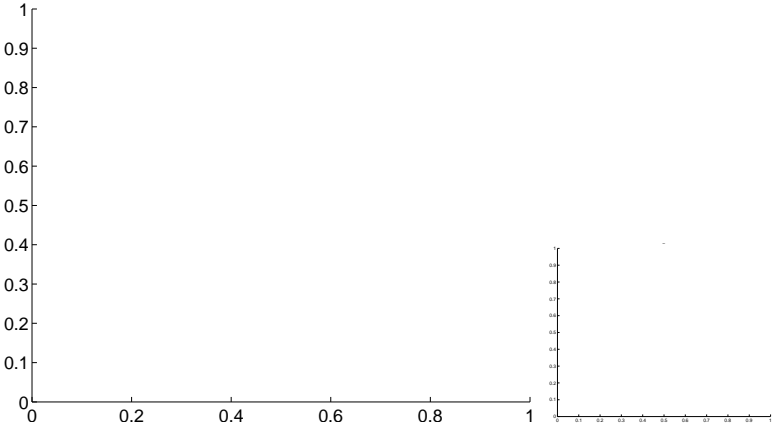


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

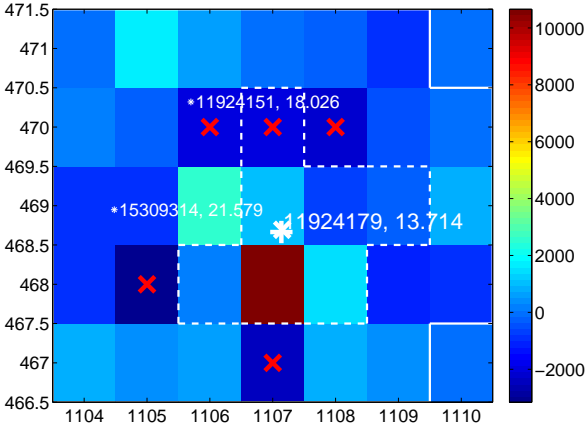
Q5 no difference image



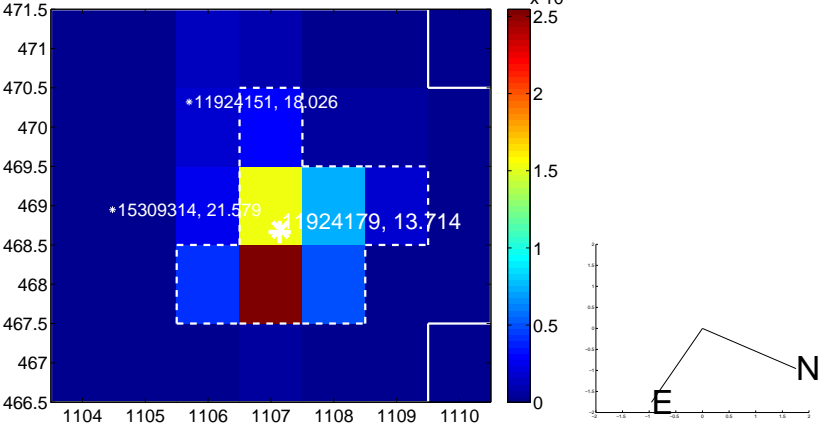
Q5 no OOT image



Q6 difference image. Poor Quality



Q6 OOT image



Q7 no difference image



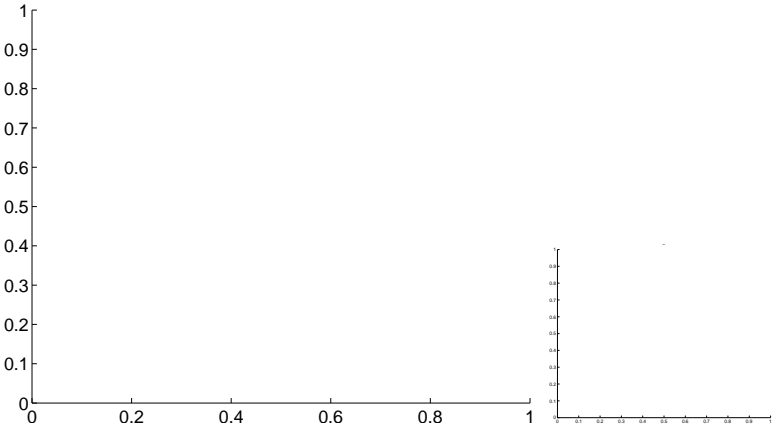
Q7 no OOT image



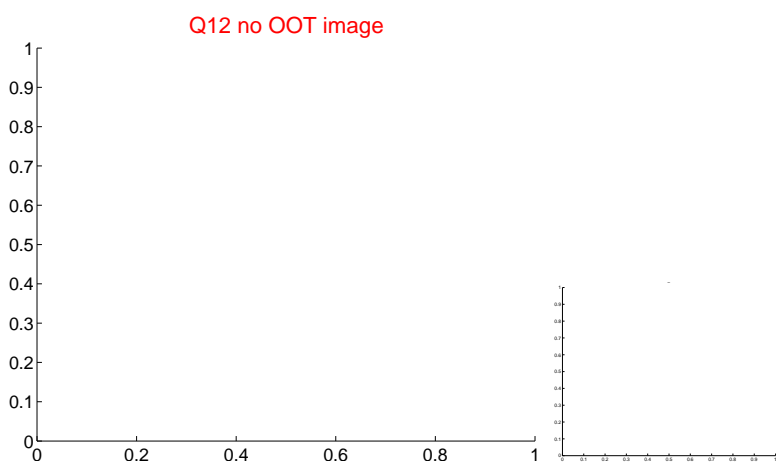
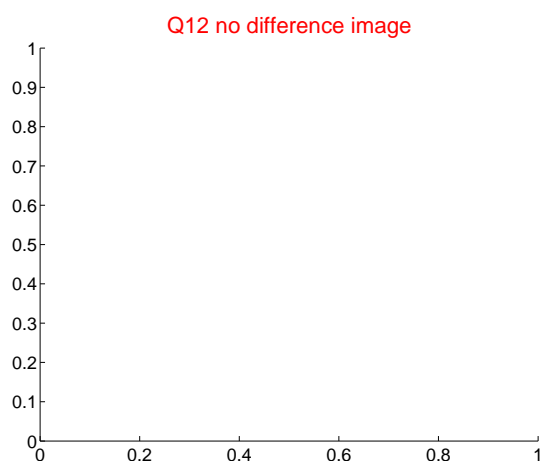
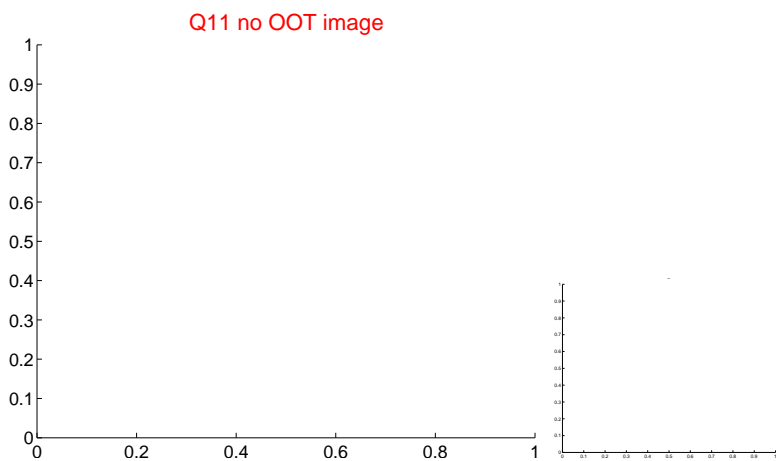
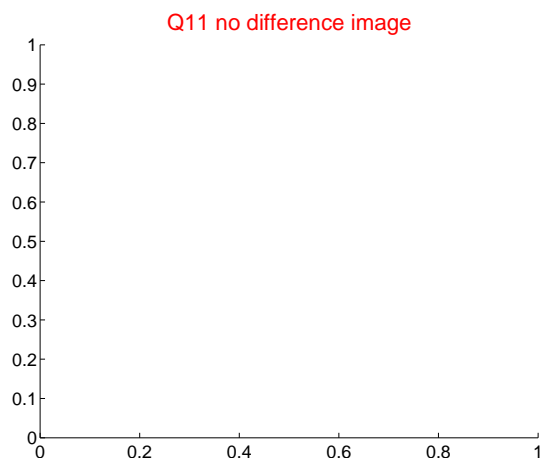
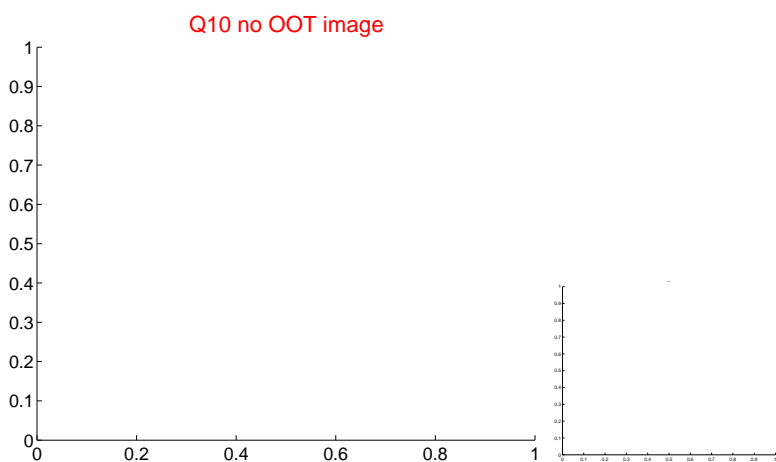
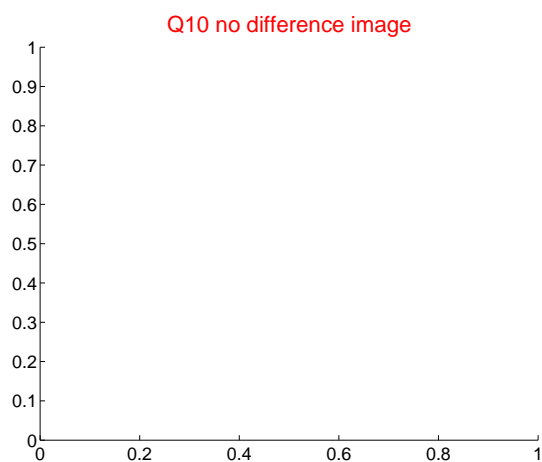
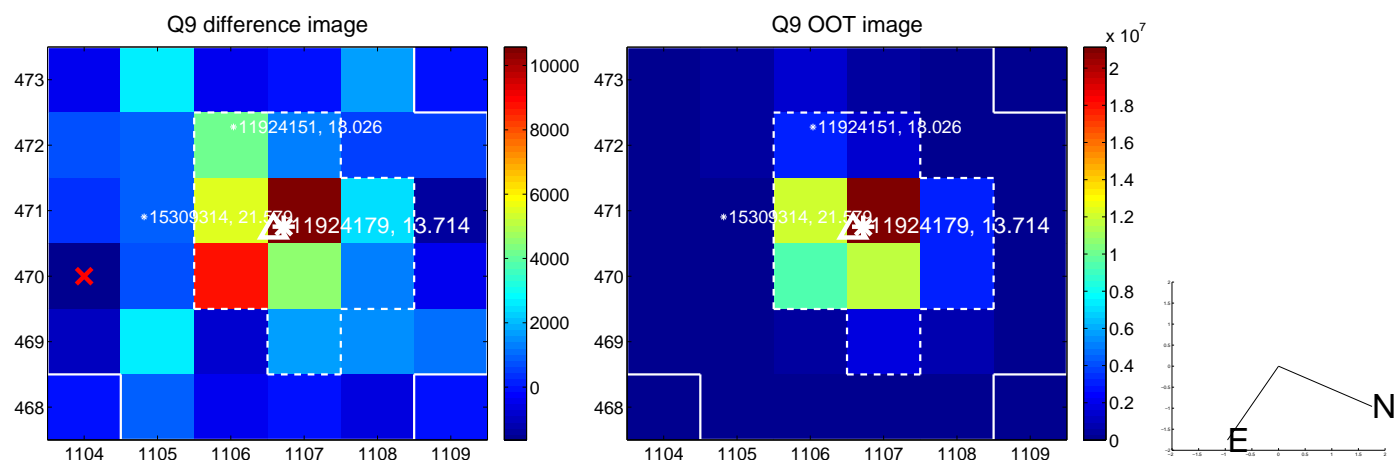
Q8 no difference image



Q8 no OOT image



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

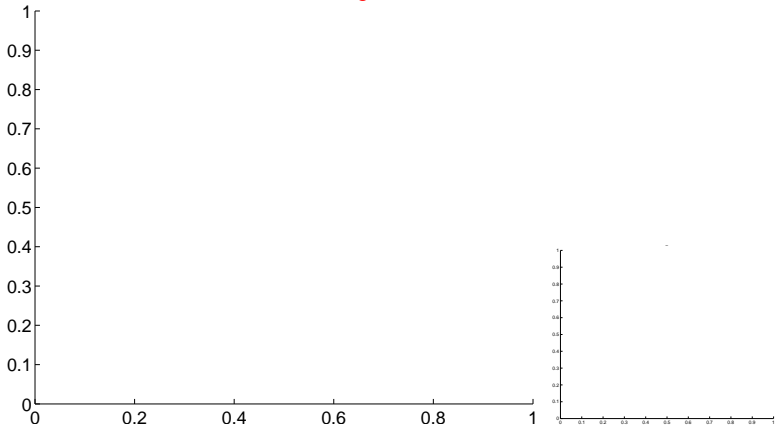


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

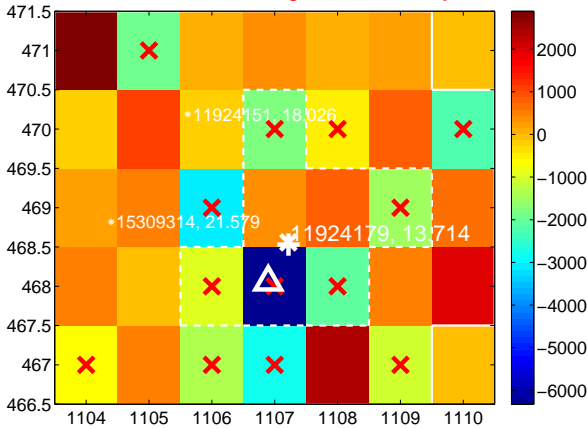
Q13 no difference image



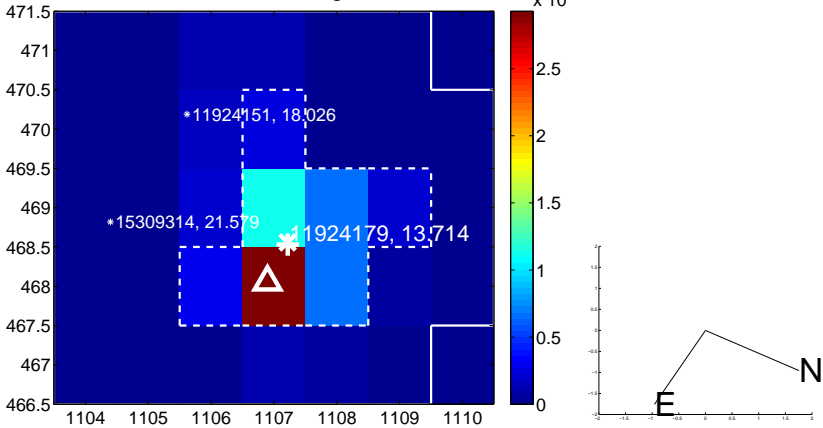
Q13 no OOT image



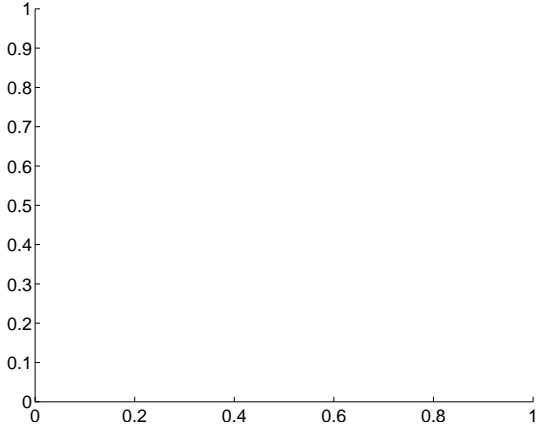
Q14 difference image. Poor Quality



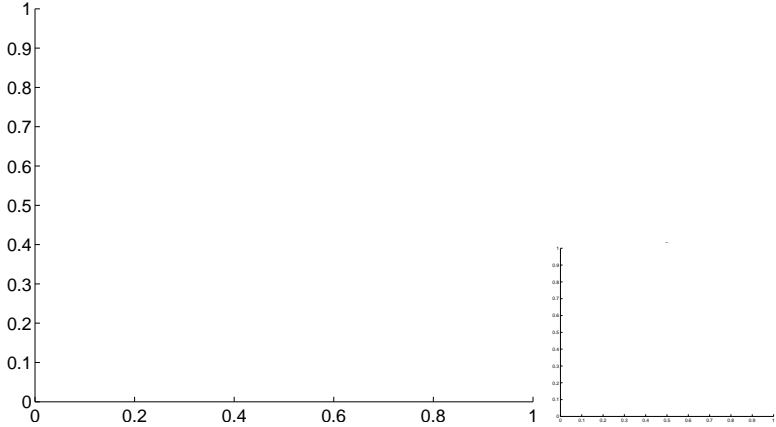
Q14 OOT image



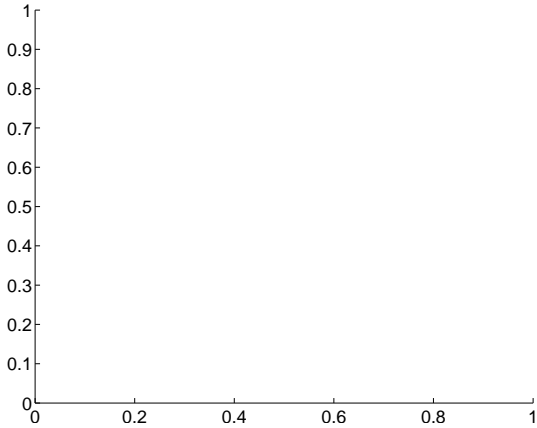
Q15 no difference image



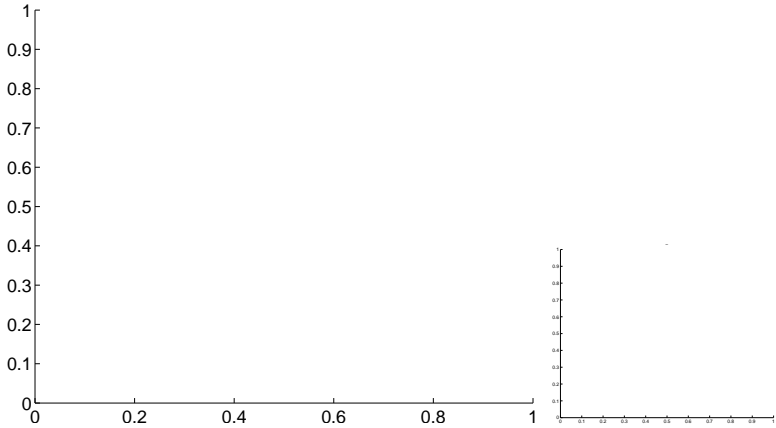
Q15 no OOT image



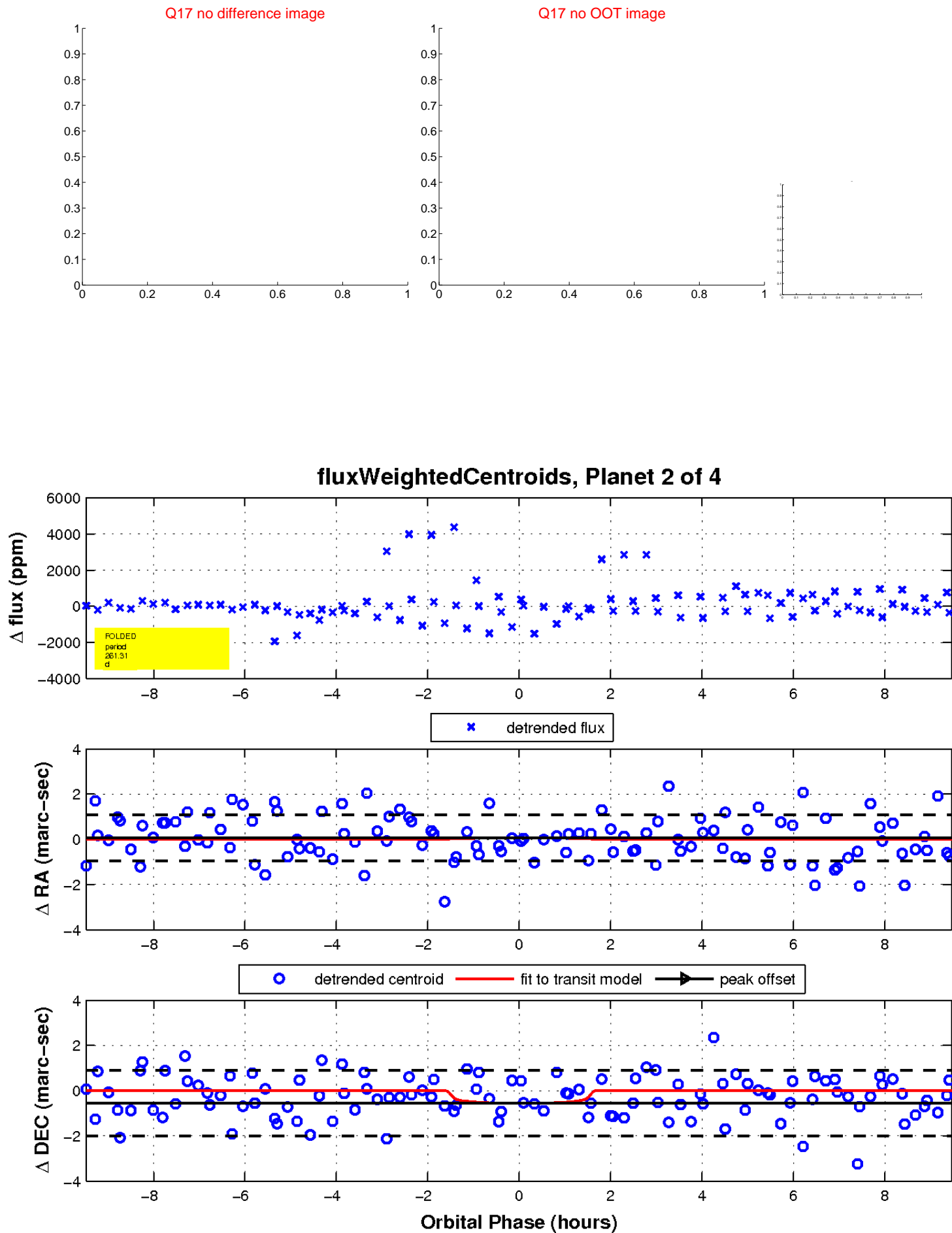
Q16 no difference image



Q16 no OOT image

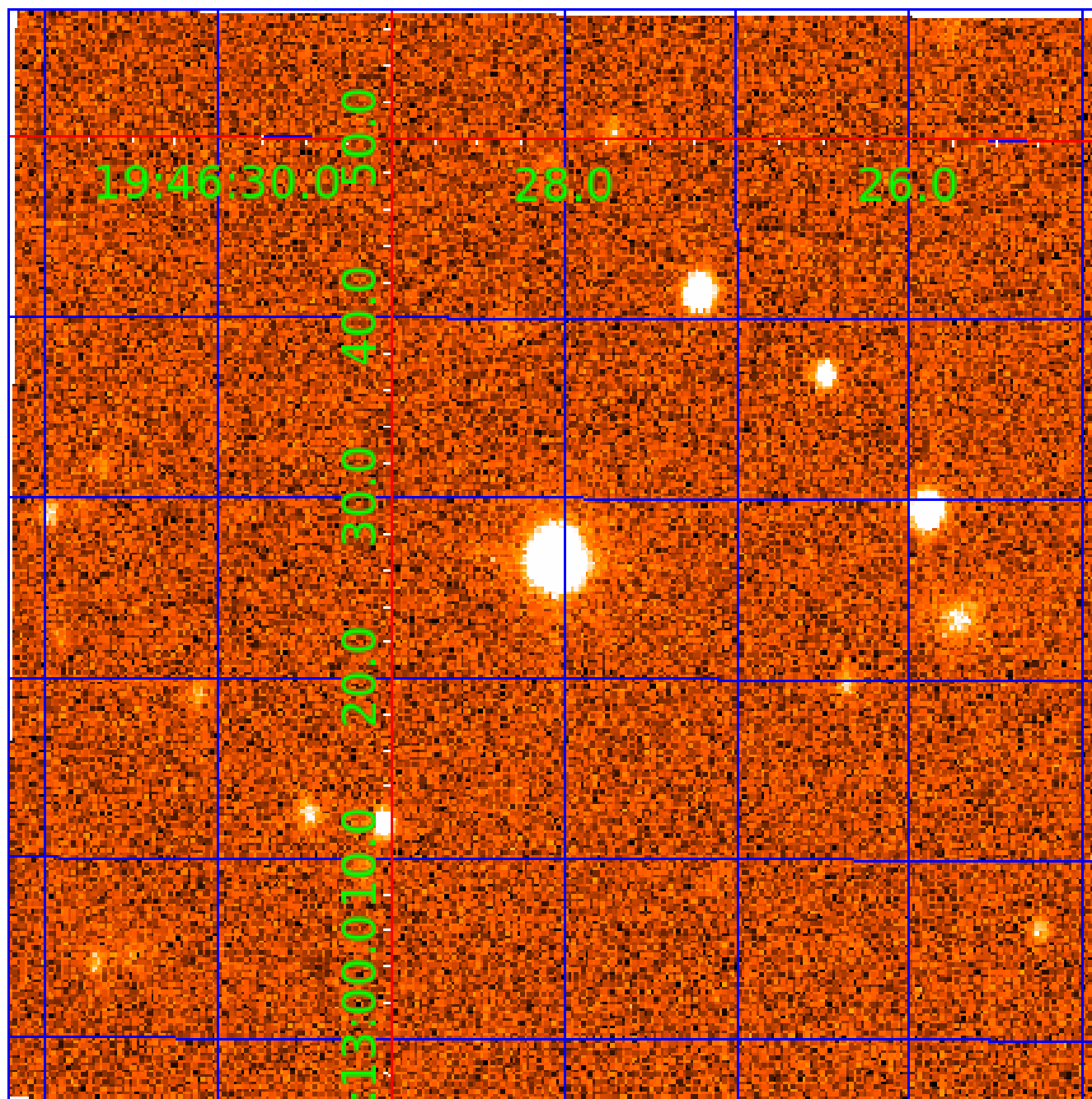


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011924179

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})
011924179-01	OBS	No	316.245230	279.194586	1056.2	4.441	17.6	7.1	1.25	6106	4.20	2.53
011924179-02	OBS	No	261.312390	320.064918	1267.1	3.173	15.5	9.4	1.25	6106	4.46	3.26
011924179-03	OBS	No	190.672041	169.161027	690.8	2.349	11.7	5.3	1.25	6106	3.57	4.96

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011924179-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011924179-02	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—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011924179-03	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—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

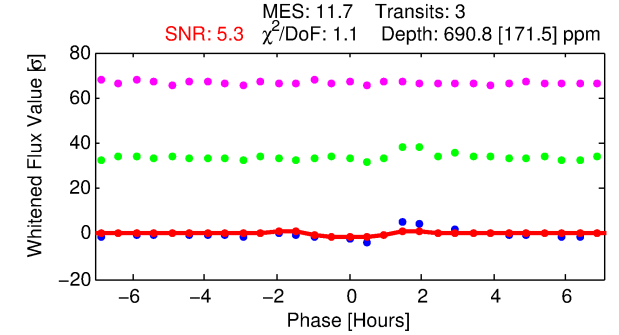
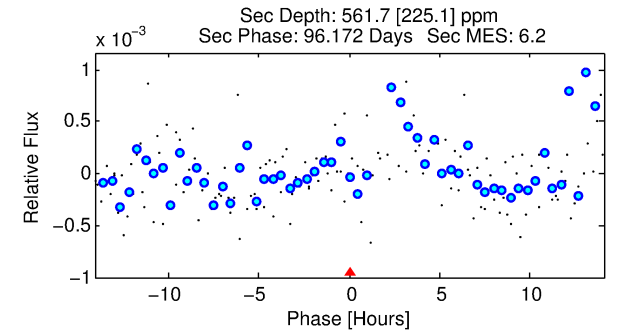
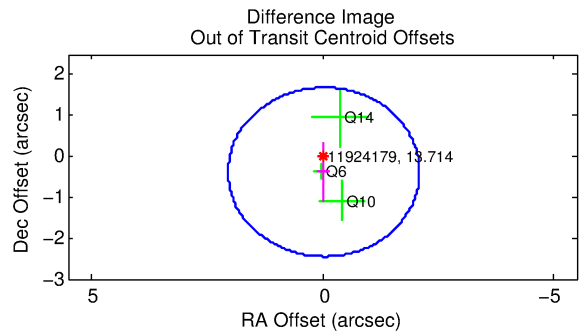
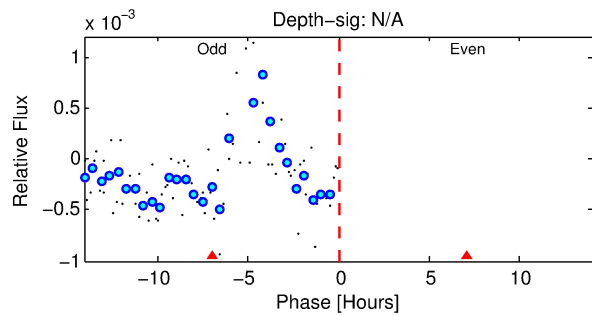
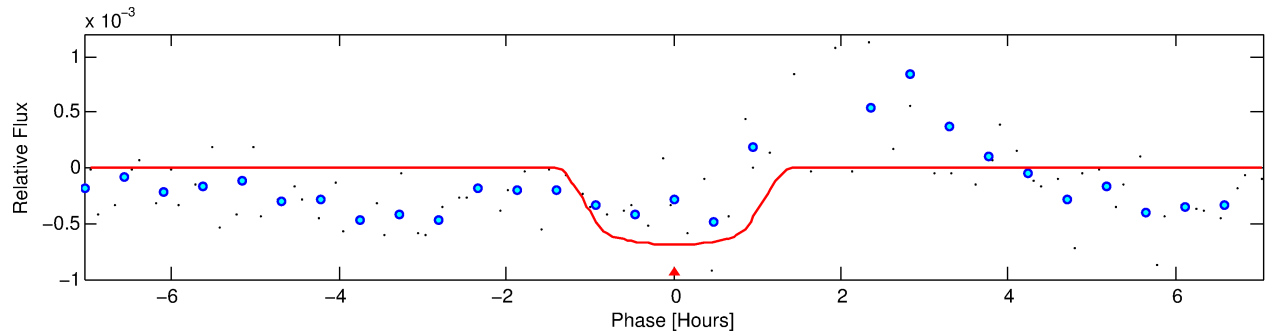
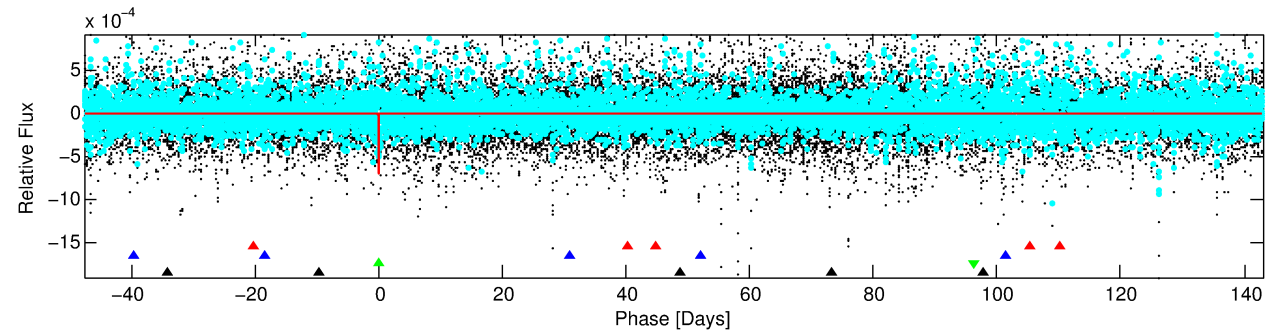
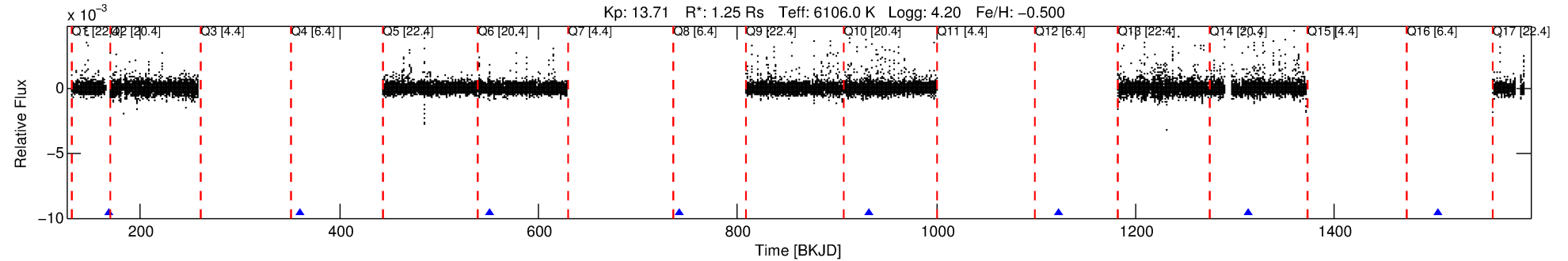
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011924179-03

No Significant Match Found

DV One-Page Summary

KIC: 11924179 Candidate: 3 of 4 Period: 190.672 d



DV Fit Results:

Period = 190.67204 [0.00280] d
Epoch = 169.1610 [0.0110] BKJD
Rp/R* = 0.0262 [0.0478]
a/R* = 435.71 [4128.05]
b = 0.75 [5.61]
Seff = 4.96 [2.39]
Teq = 381 [46] K
Rp = 3.57 [6.60] Re
a = 0.6264 [0.1806] AU
Ag = 9520.43 [35241.76] [0.27σ]
Teffp = 5812 [5340] K [1.02σ]

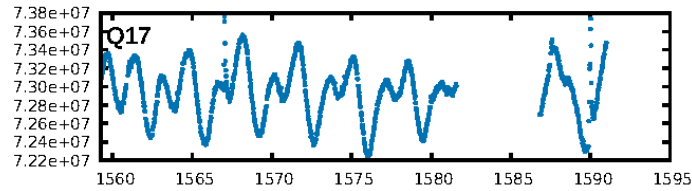
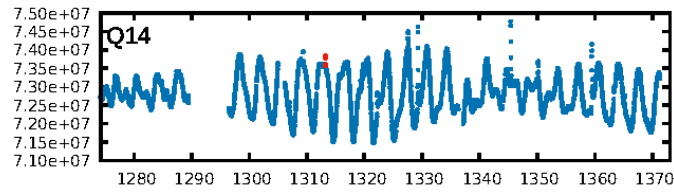
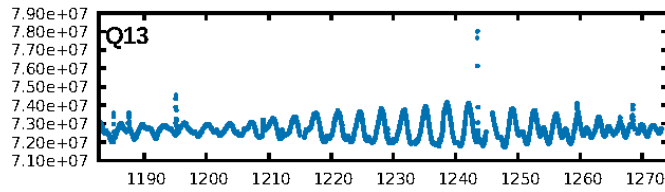
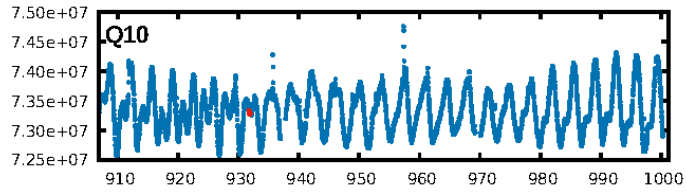
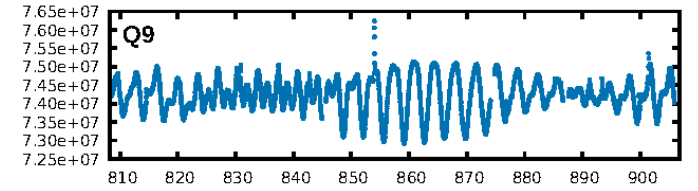
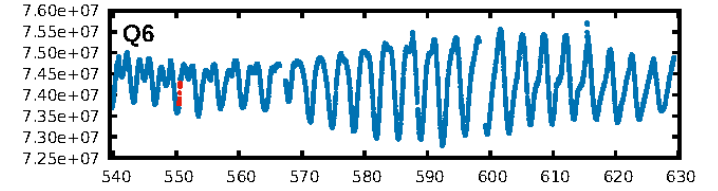
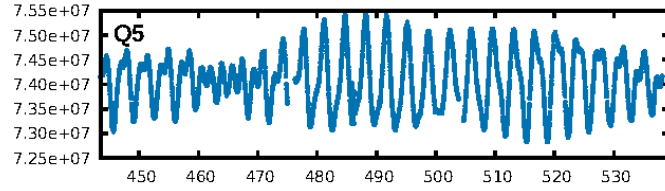
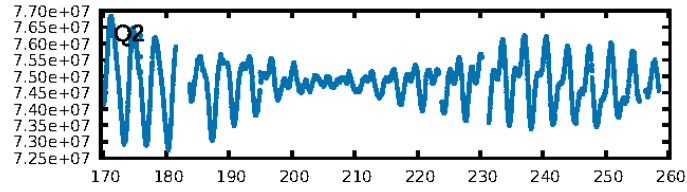
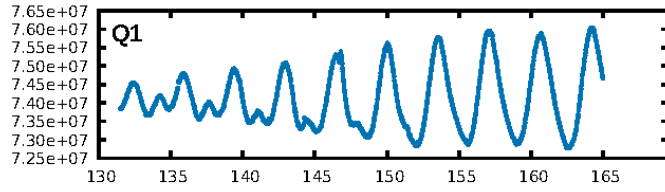
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [429.42σ]
ModelChiSquare2-sig: 20.9%
ModelChiSquareGof-sig: 97.4%
Bootstrap-pfa: 3.62e-11
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 4.017
Centroid-sig: 4.0%
Centroid-so: 2.452 arcsec [1.66σ]
OotOffset-rm: 0.383 arcsec [0.56σ]
KicOffset-rm: 0.402 arcsec [1.30σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

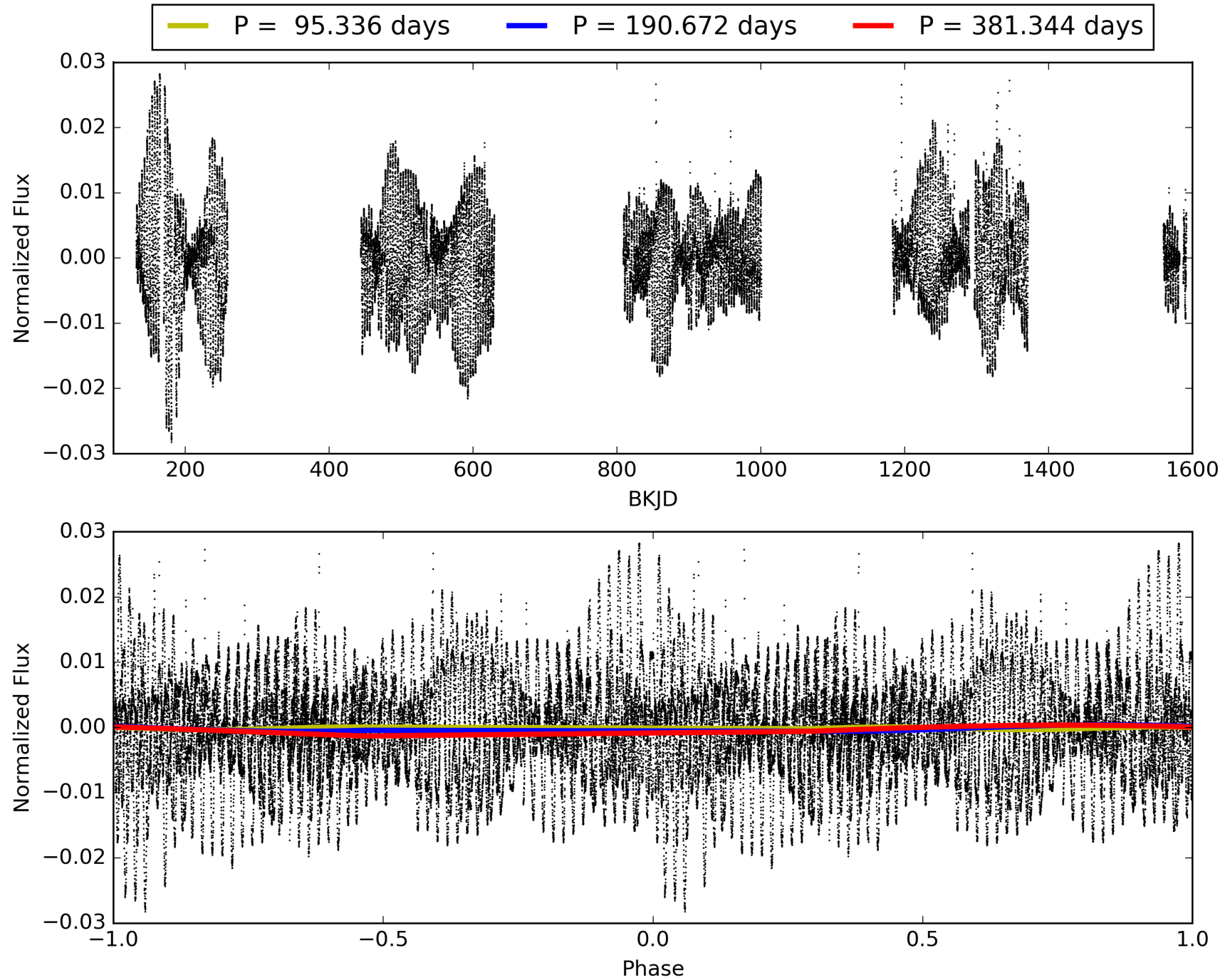
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 03:39:55 Z

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

TCE 011924179-03, PDC Light Curves

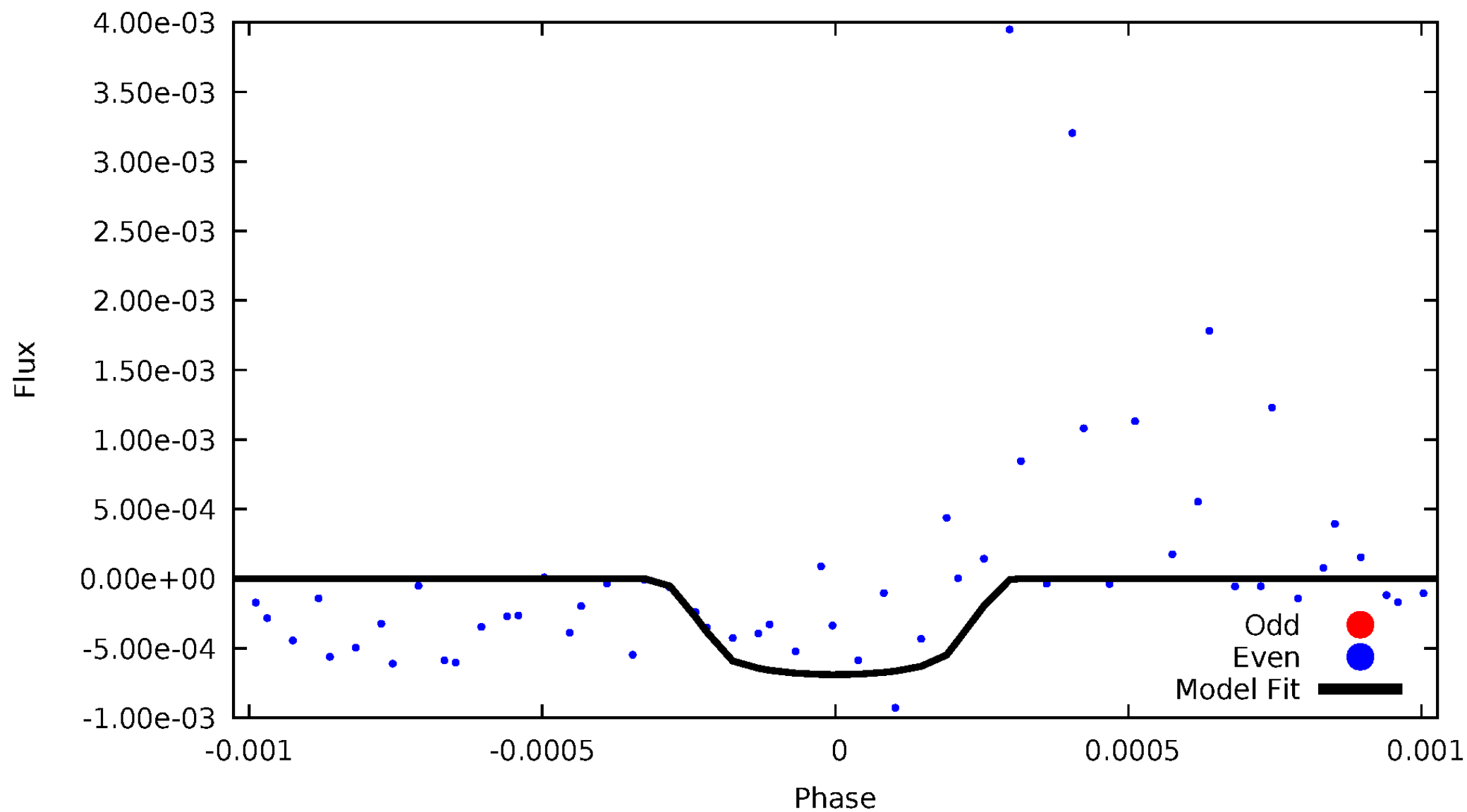


TCE 011924179-03



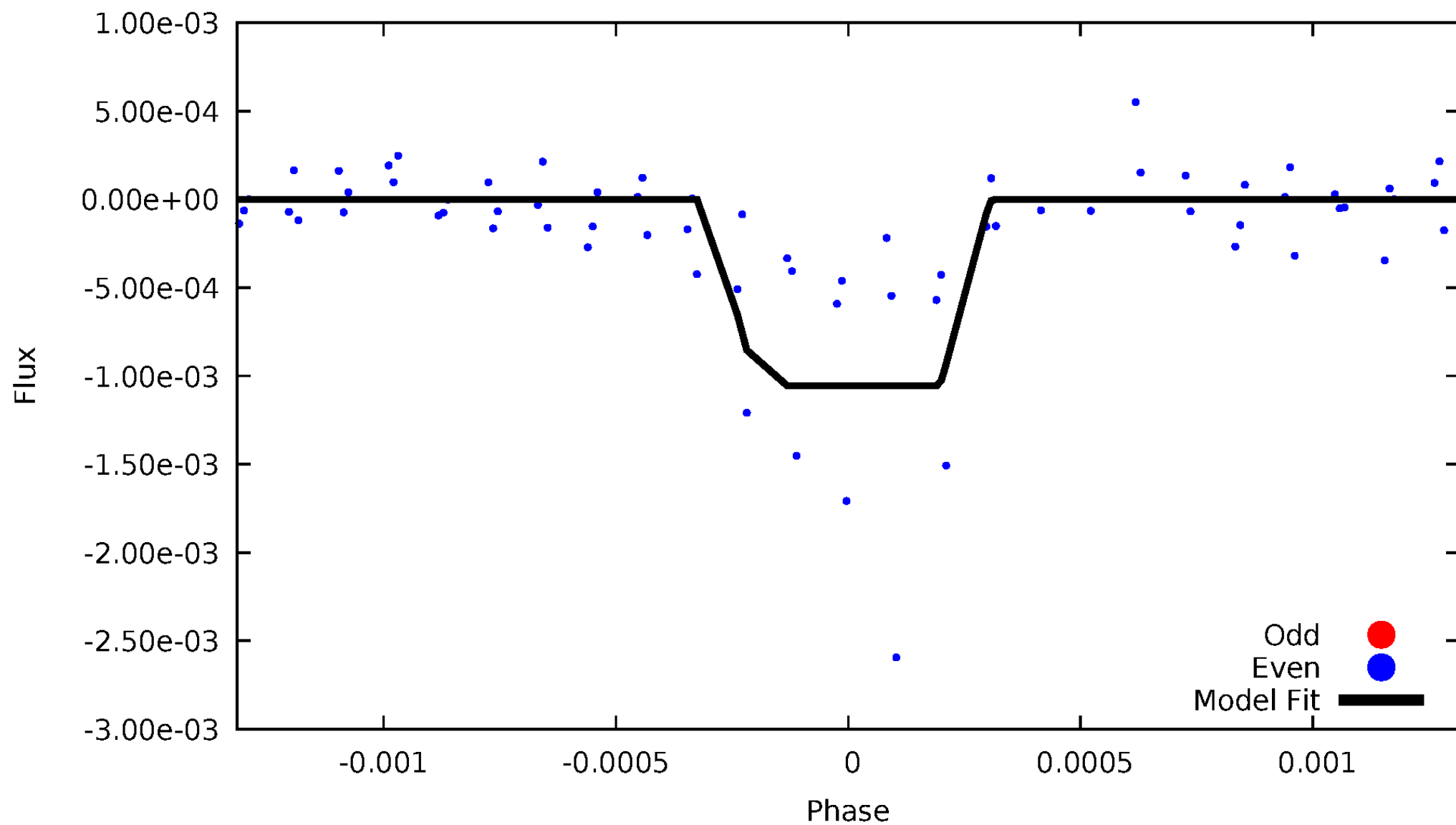
DV Odd/Even

TCE 011924179-03



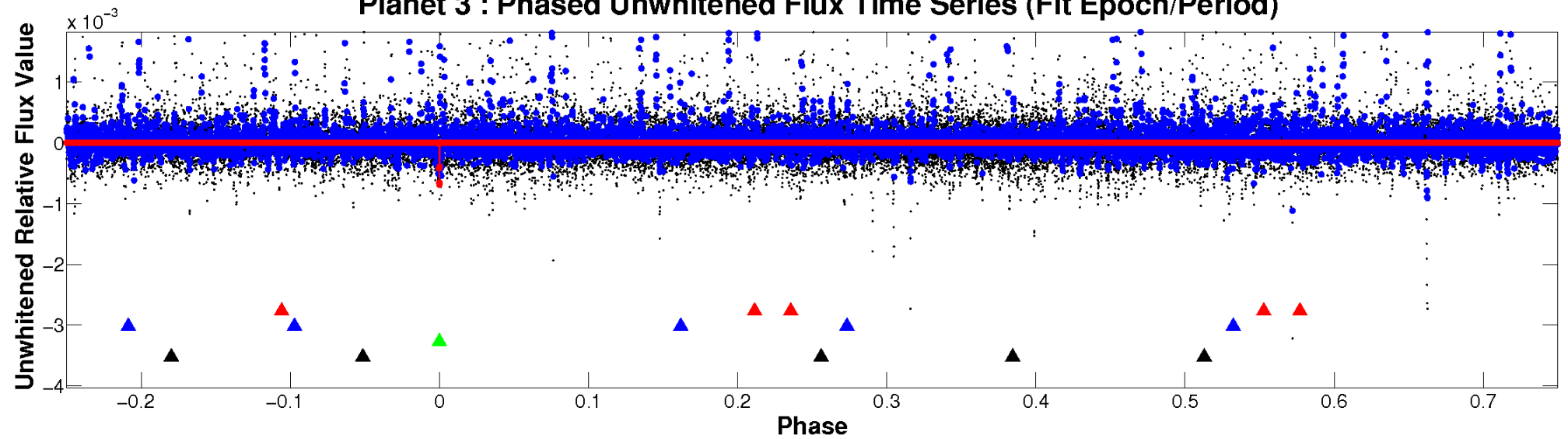
ALT Odd/Even

TCE 011924179-03

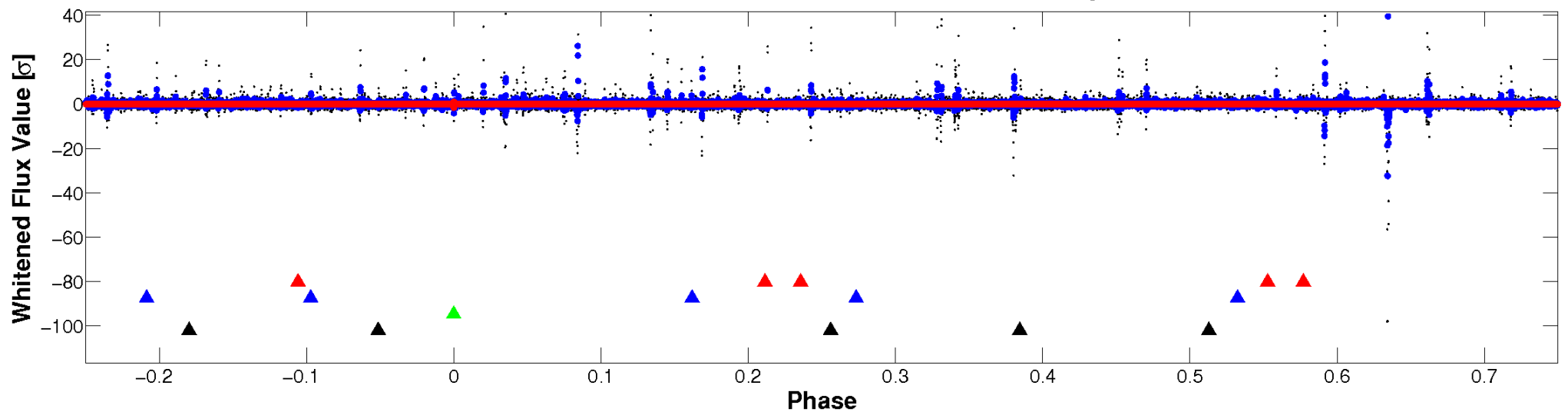


Non-Whitened Vs. Whitened Light Curve

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

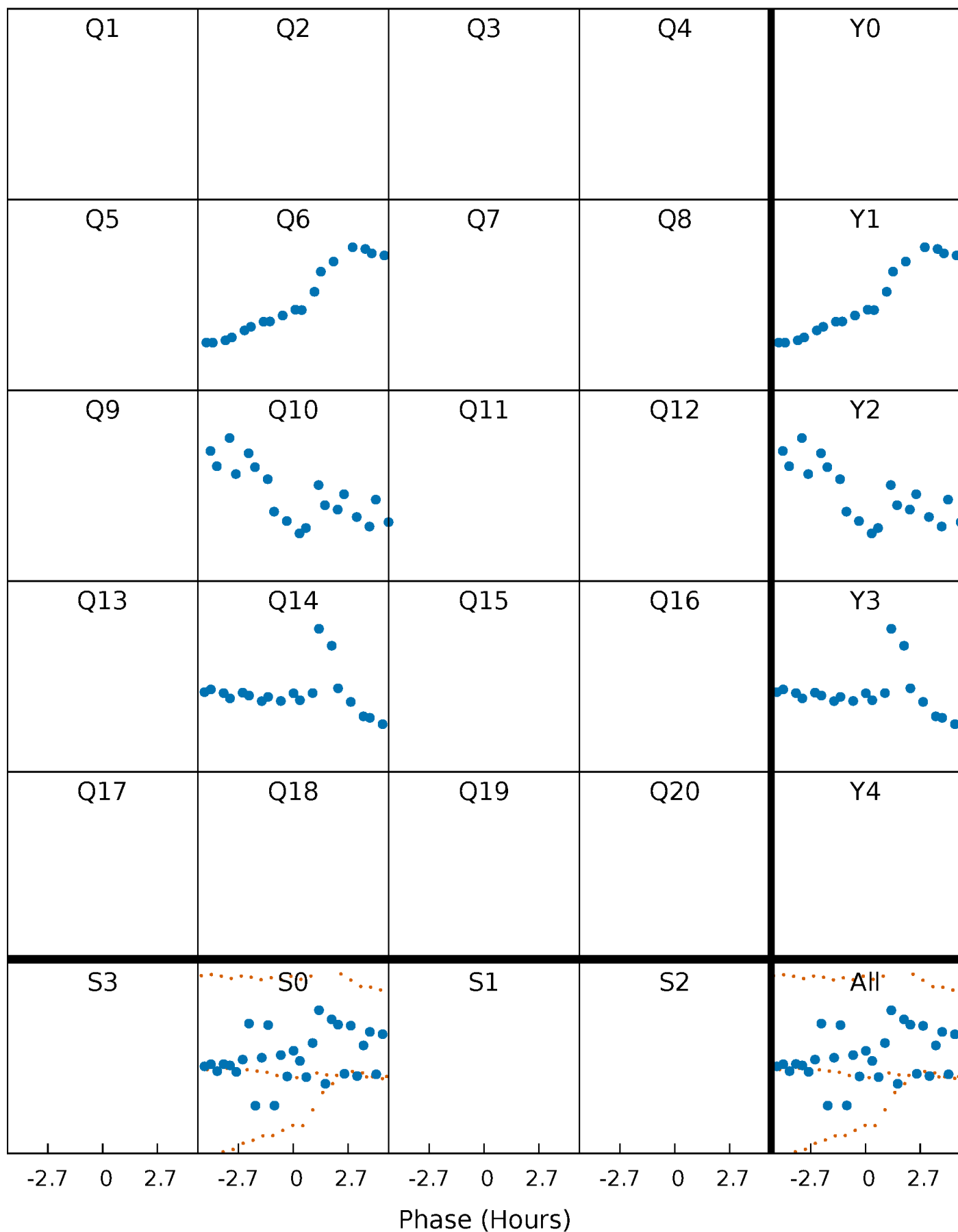


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



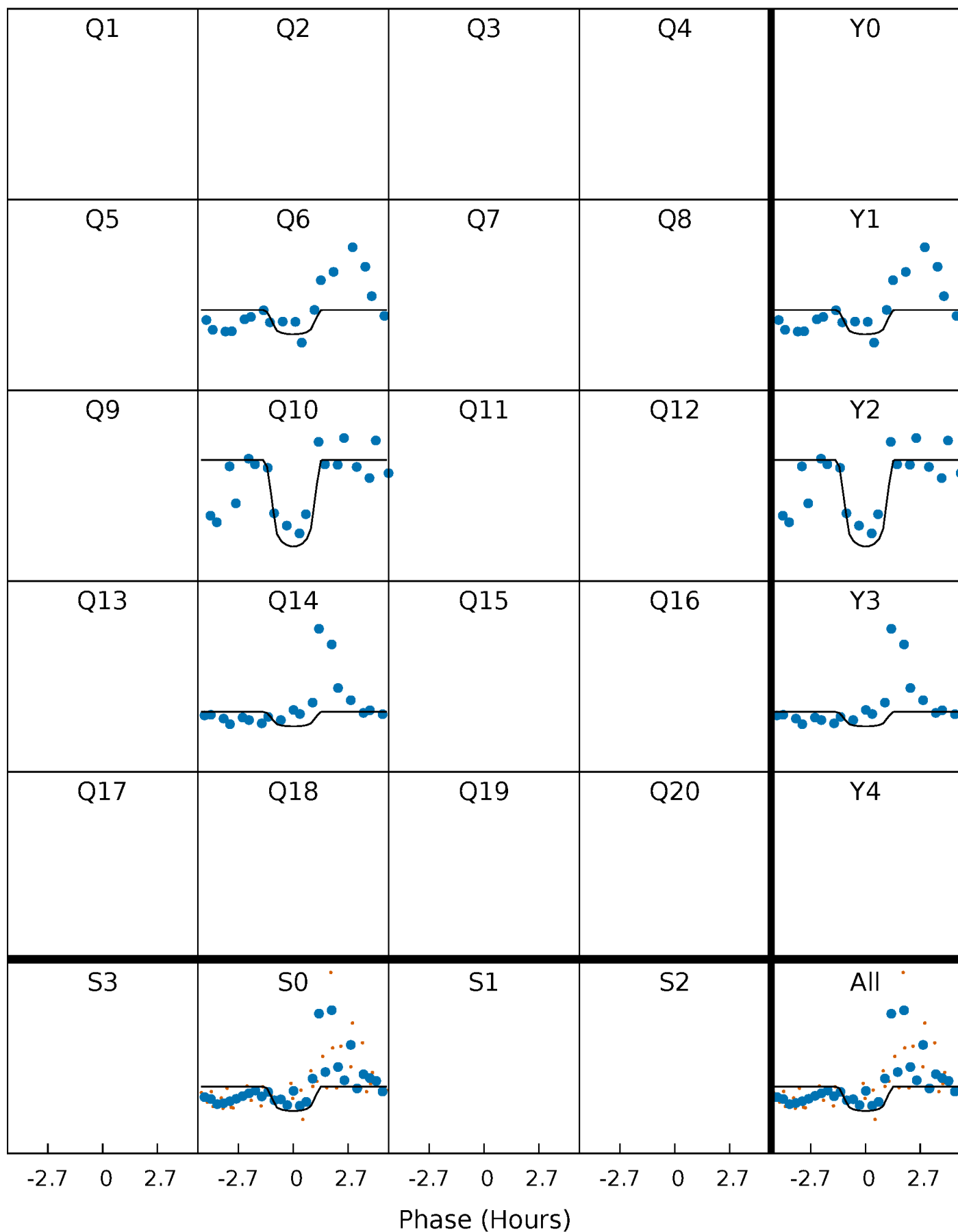
PDC Quarter-Phased Transit Curves

TCE 011924179-03 P=190.672041 Days $T_0=169.161027$ (BKJD)



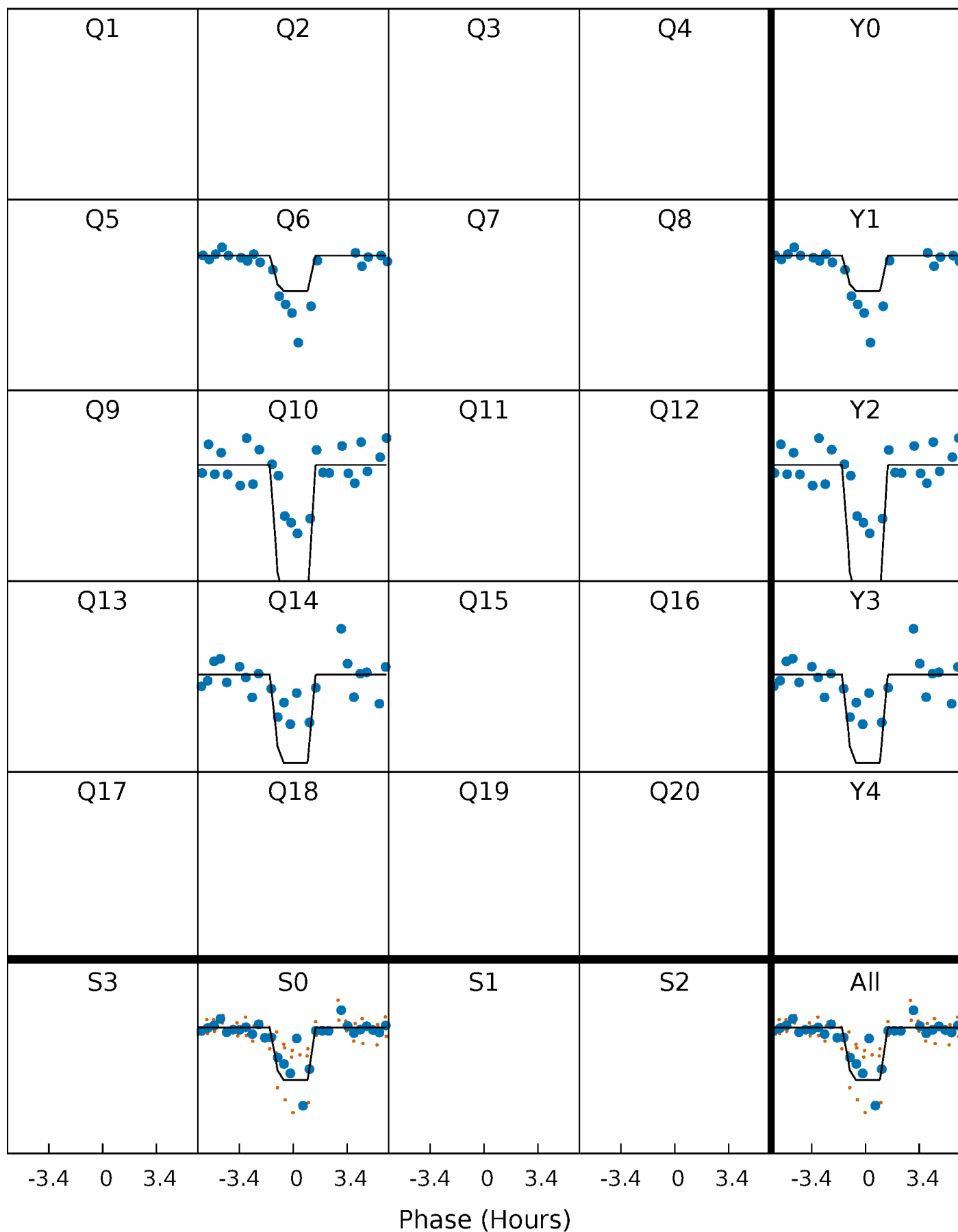
DV Quarter-Phased Transit Curves

TCE 011924179-03 P=190.672041 Days $T_0=169.161027$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

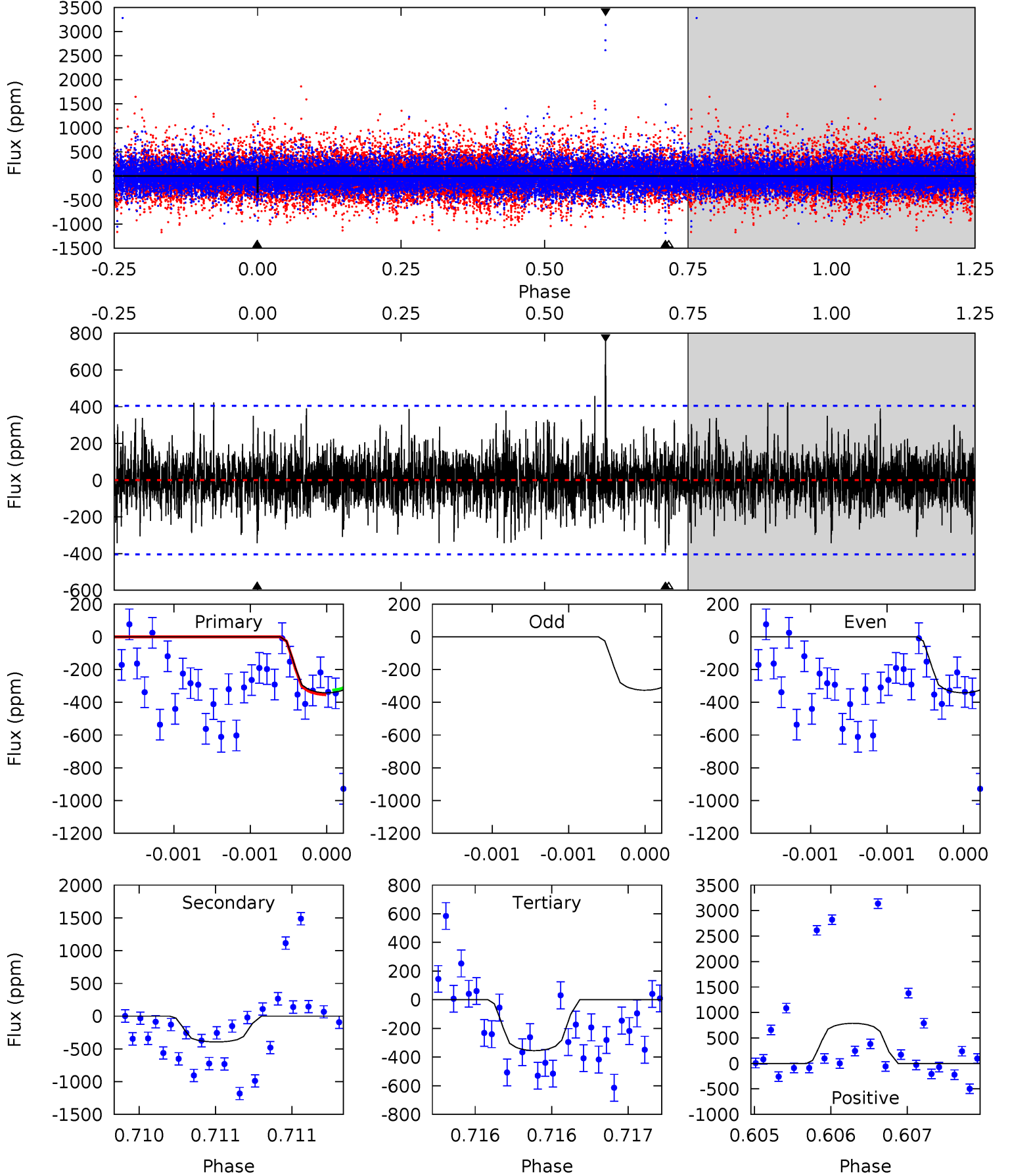
TCE 011924179-03 P=190.666989 Days $T_0=169.170940$ (BKJD)



DV Model-Shift Uniqueness Test

011924179-03, P = 190.672041 Days, E = 169.161027 Days

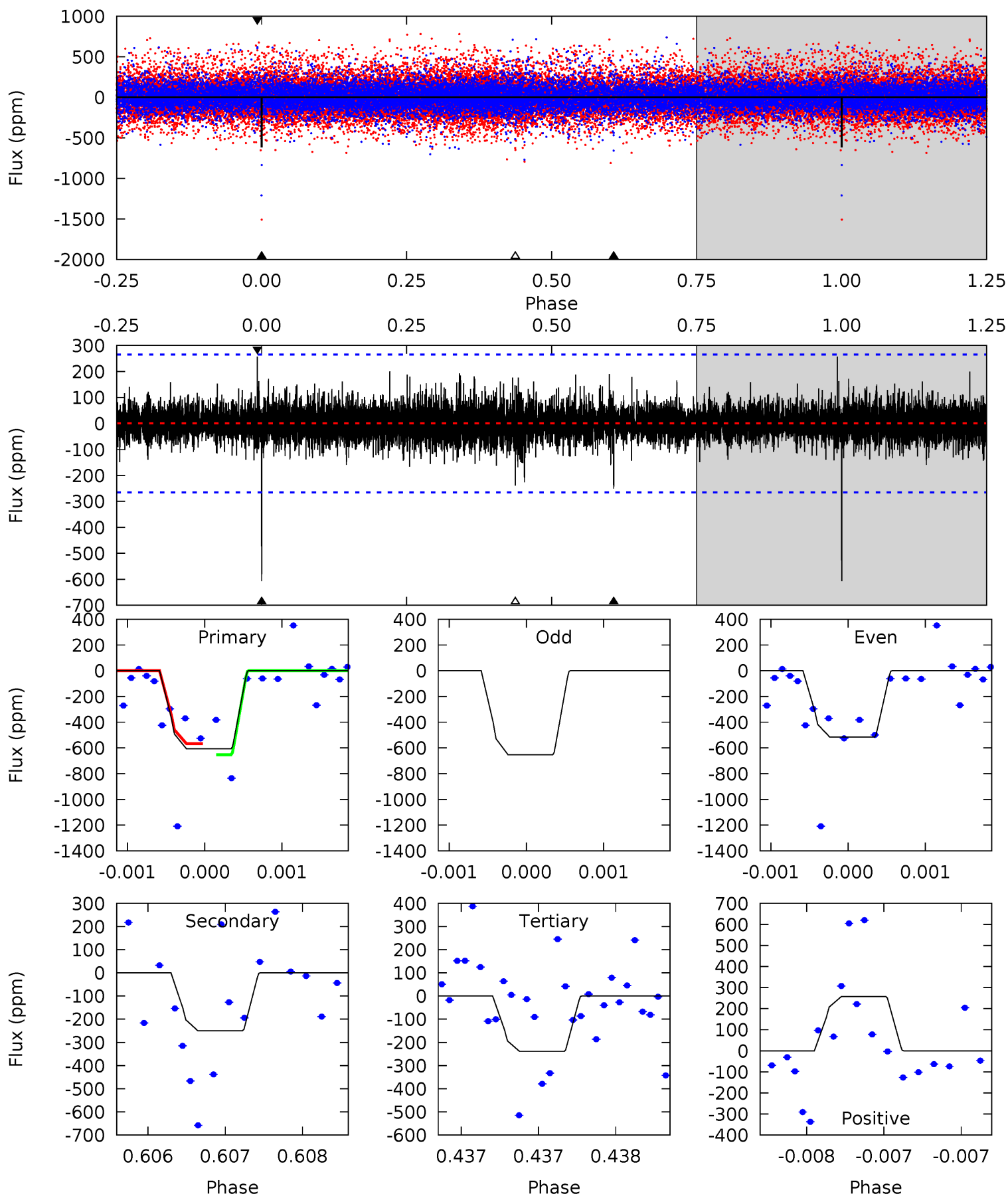
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.70	5.41	4.88	10.8	5.56	3.46	1.32	-0.18	-6.13	0.53	-5.42	0.13	0.69	0.67	0.19



Alt Model-Shift Uniqueness Test

011924179-03, P = 190.666989 Days, E = 169.170940 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	5.23	5.00	5.38	5.55	3.45	0.97	7.69	7.32	0.23	-0.14	1.67	1.94	0.30	0



Stellar Parameters For KIC 011924179

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6106^{+215}_{-215}	$4.199^{+0.270}_{-0.180}$	$-0.500^{+0.300}_{-0.300}$	$1.250^{+0.341}_{-0.376}$	$0.900^{+0.139}_{-0.093}$	$0.649^{+1.042}_{-0.307}$
	+4%/-4%	+6%/-4%	+60%/-60%	+27%/-30%	+15%/-10%	+160%/-47%
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 011924179-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-394 ± 73	$6.05^{+5.61}_{-3.95}$	528^{+45}_{-44}	4267^{+2557}_{-847}	2282^{+15556}_{-1667}
Alt.	-250 ± 48	$6.05^{+5.71}_{-3.82}$	530^{+40}_{-49}	3948^{+2065}_{-784}	1508^{+9644}_{-1130}

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

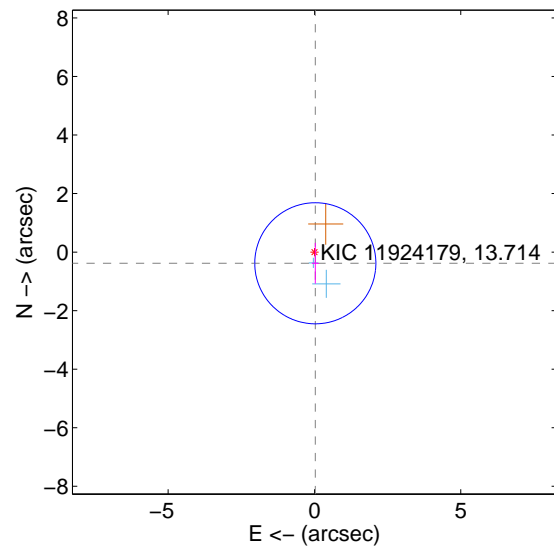
Supplemental centroid analysis for 011924179-03. Kepler magnitude: 13.71. Transit SNR 5.26

There are 2 quarters with good PRF difference image offsets

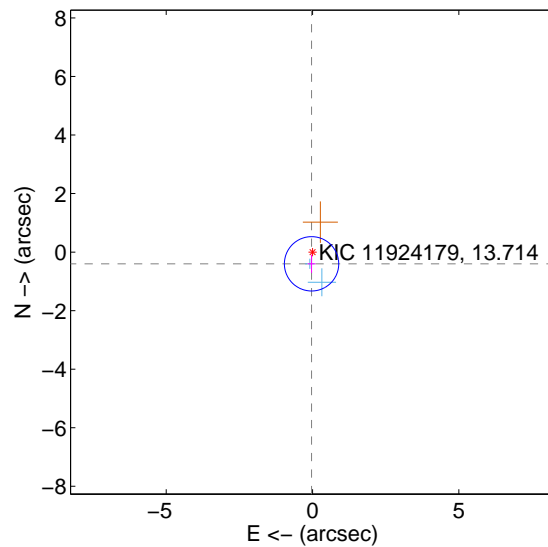
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.383 ± 0.690	0.56	-0.030 ± 0.118	-0.382 ± 0.698
PRF-fit source offset from KIC position	0.402 ± 0.309	1.30	0.033 ± 0.133	-0.401 ± 0.310
photometric centroid source offset	2.45 ± 1.48	1.66	-0.43 ± 1.17	-2.41 ± 1.49

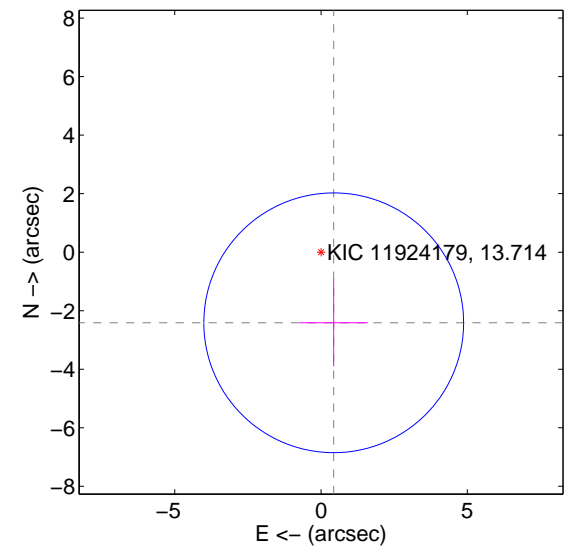
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

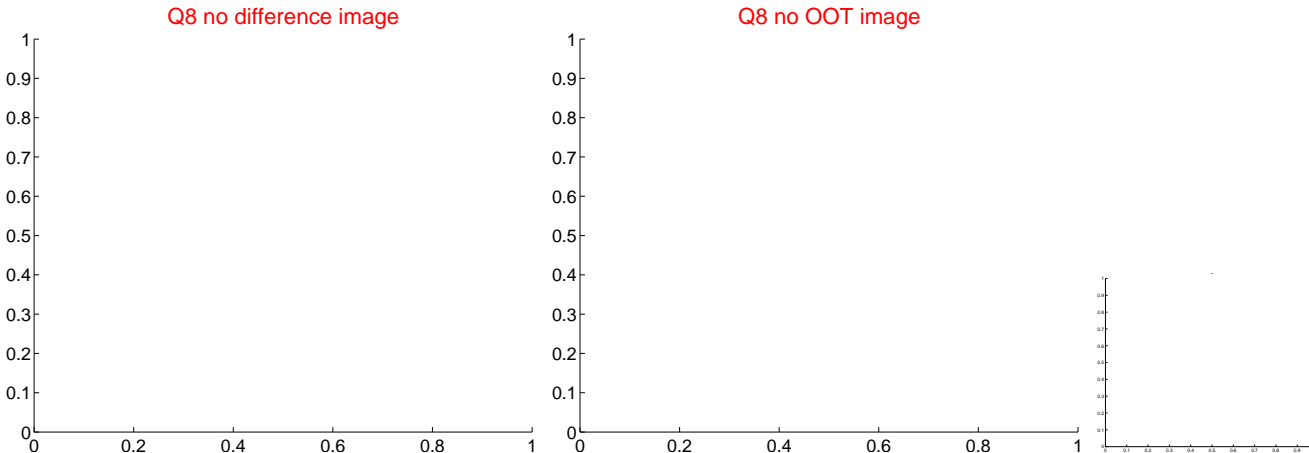
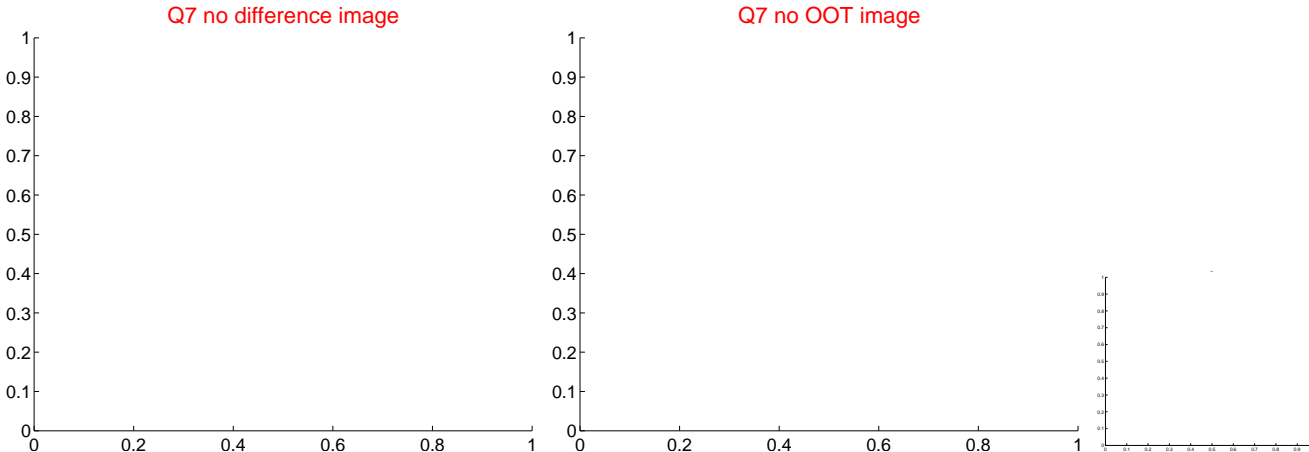
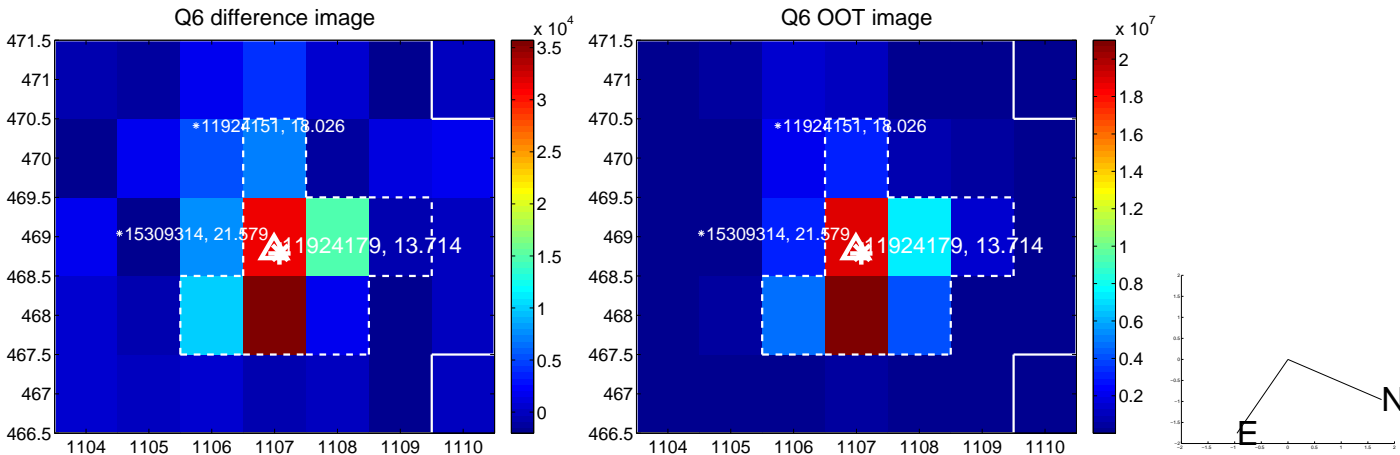
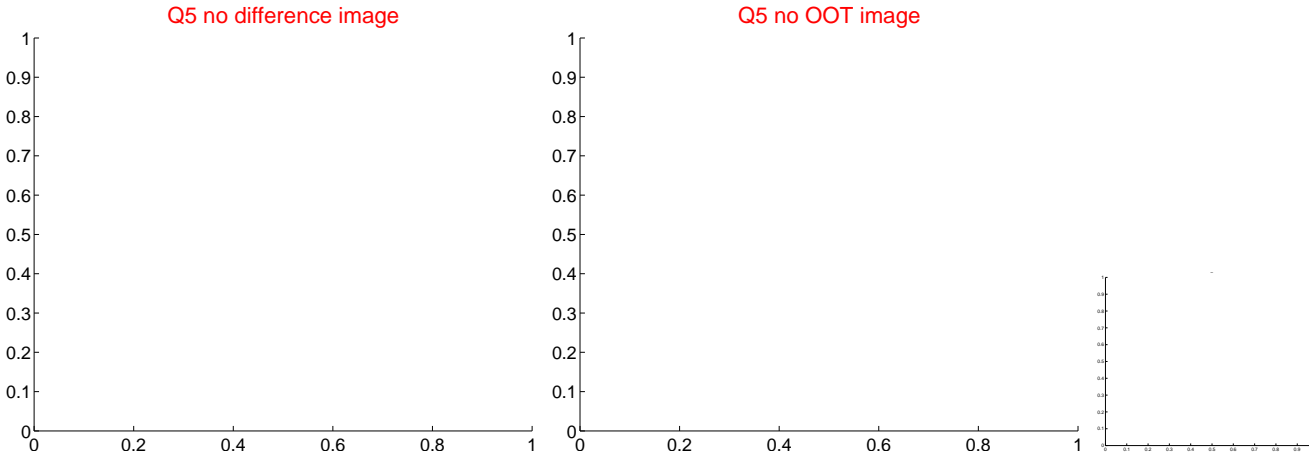


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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



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

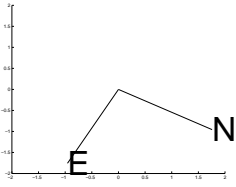
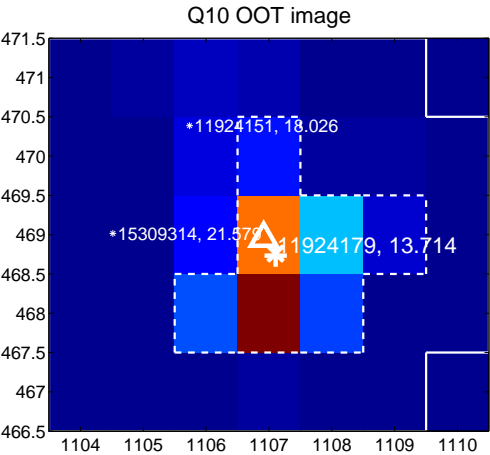
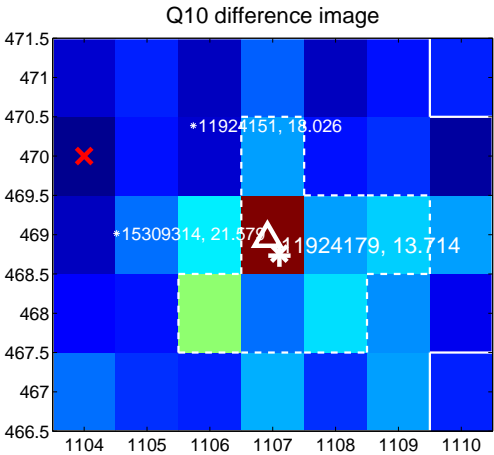


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

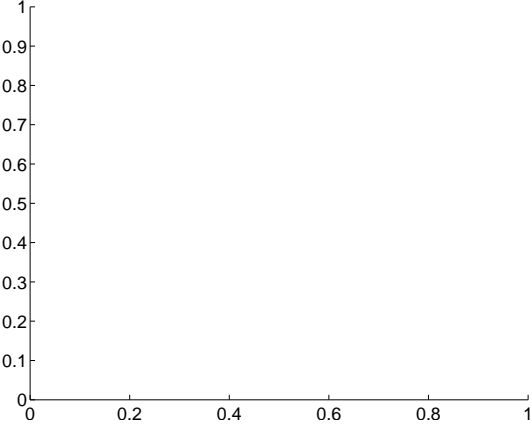
Q9 no difference image



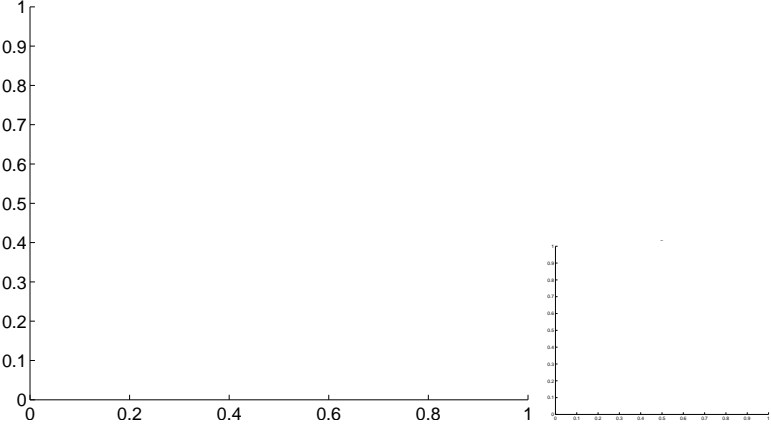
Q9 no OOT image



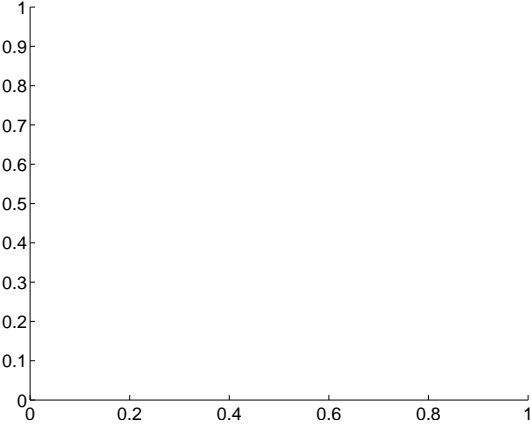
Q11 no difference image



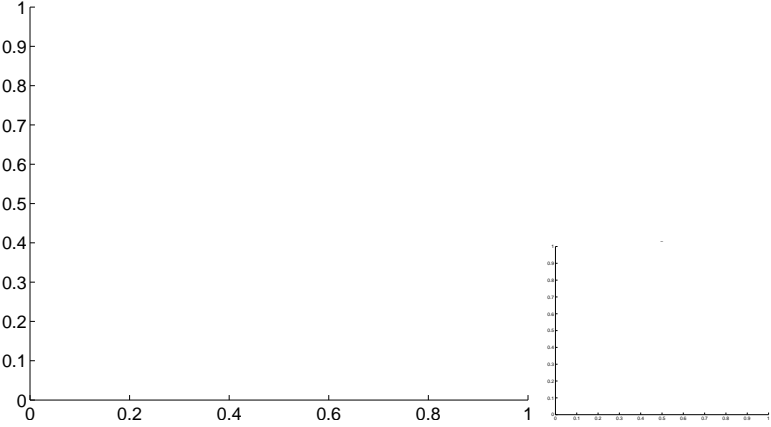
Q11 no OOT image



Q12 no difference image



Q12 no OOT image



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

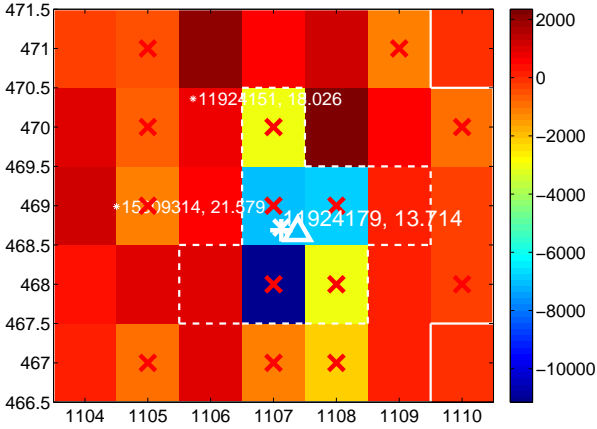
Q13 no difference image



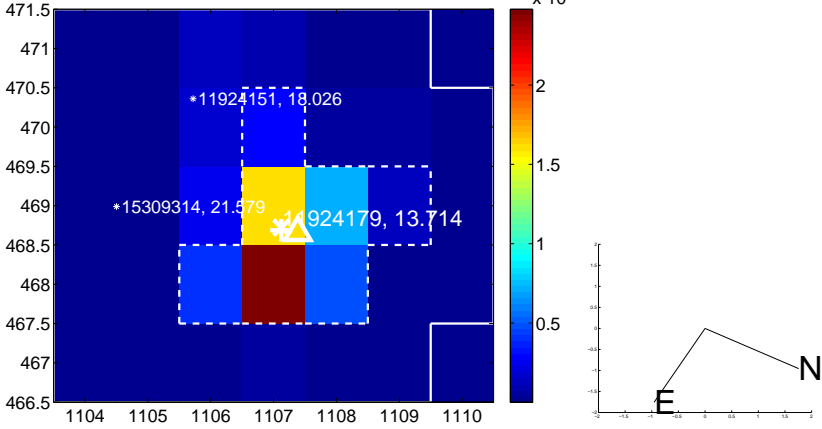
Q13 no OOT image



Q14 difference image. Poor Quality



Q14 OOT image



Q15 no difference image



Q15 no OOT image



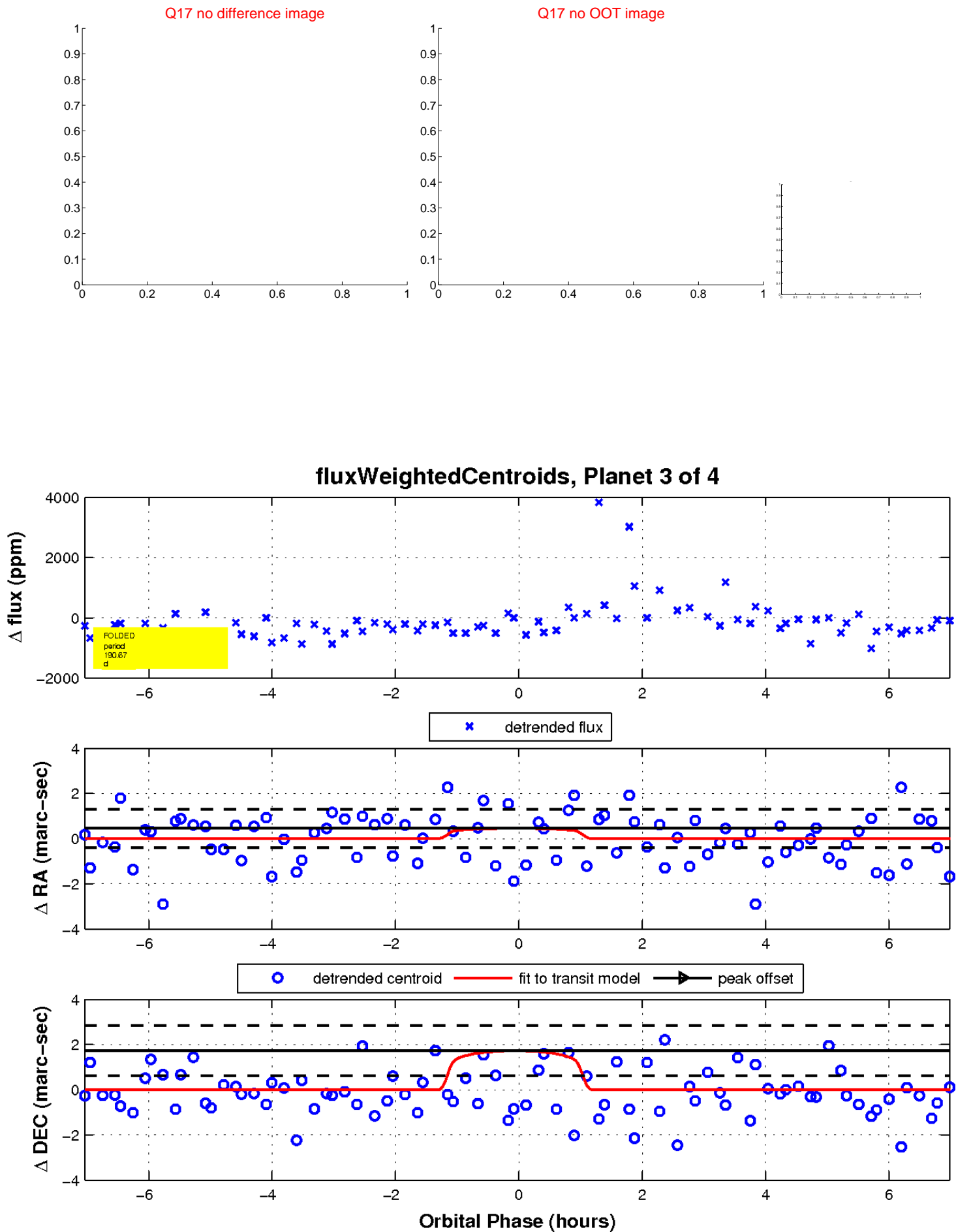
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

