

KIC 003119250

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})
003119250-01	OBS	No	349.533364	221.602858	434.1	2.421	14.2	4.0	0.74	5522	1.59	0.61
003119250-02	OBS	No	448.502126	511.586270	694.7	3.953	14.4	5.7	0.74	5522	1.99	0.44
003119250-03	OBS	No	366.294483	141.715562	860.1	2.721	14.7	7.2	0.74	5522	2.31	0.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003119250-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003119250-02	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
003119250-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—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.

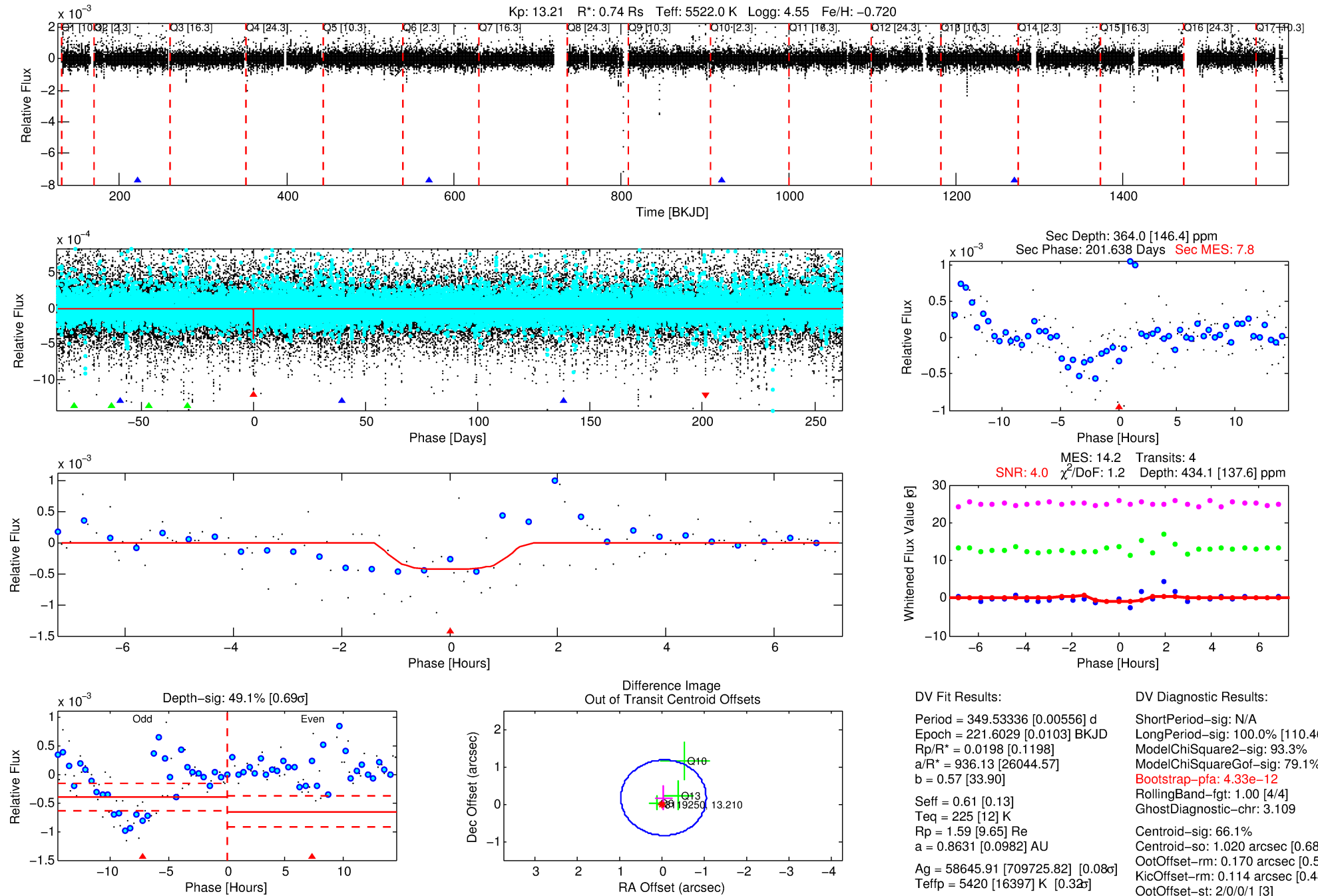
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003119250-01

No Significant Match Found

DV One-Page Summary

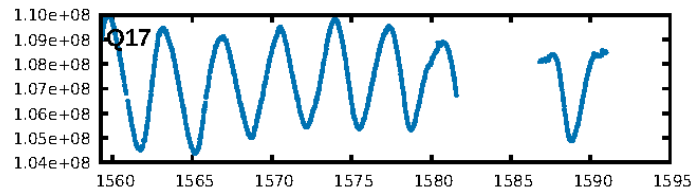
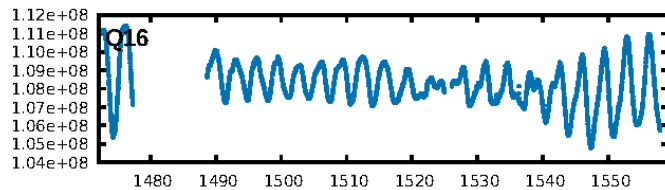
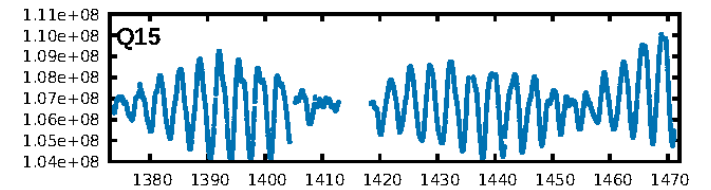
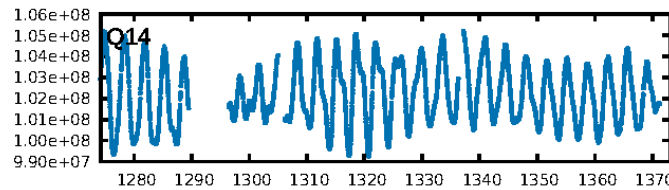
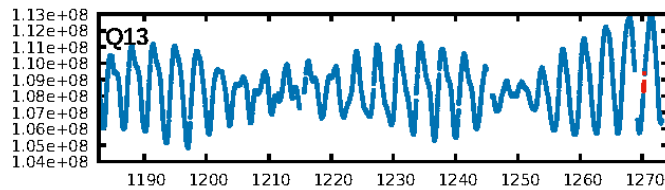
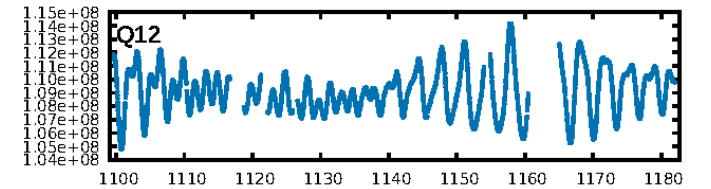
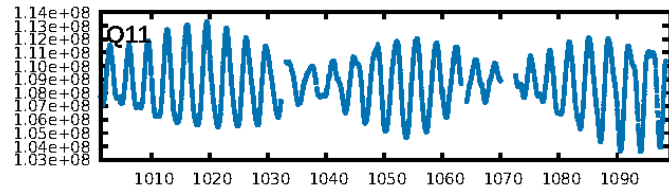
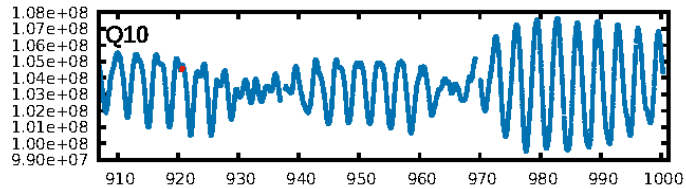
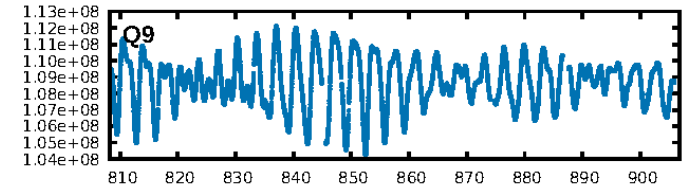
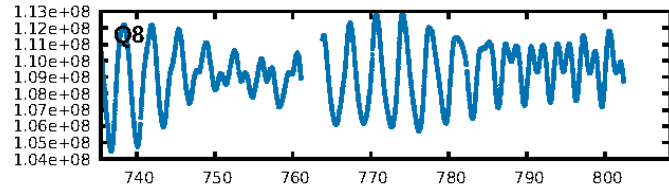
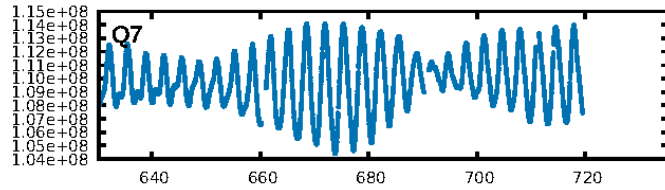
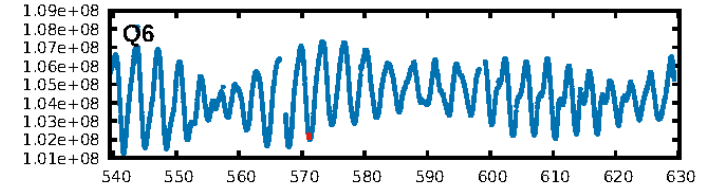
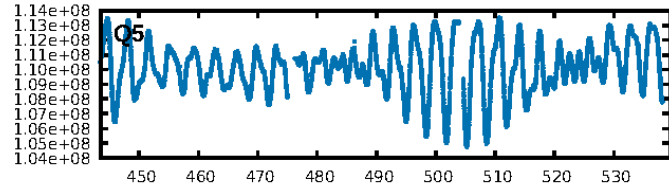
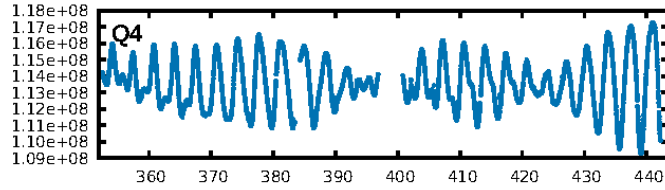
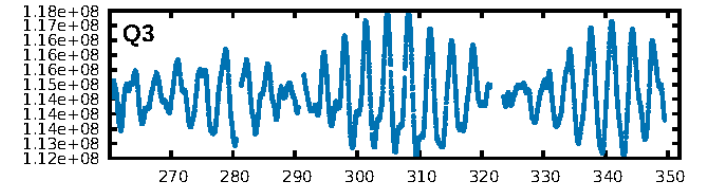
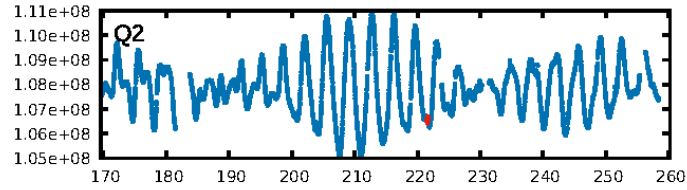
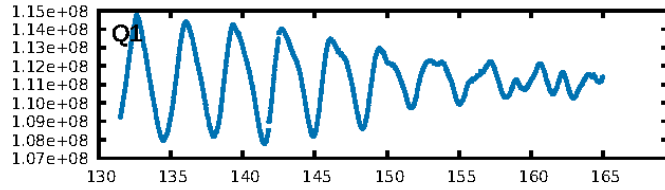
KIC: 3119250 Candidate: 1 of 3 Period: 349.533 d



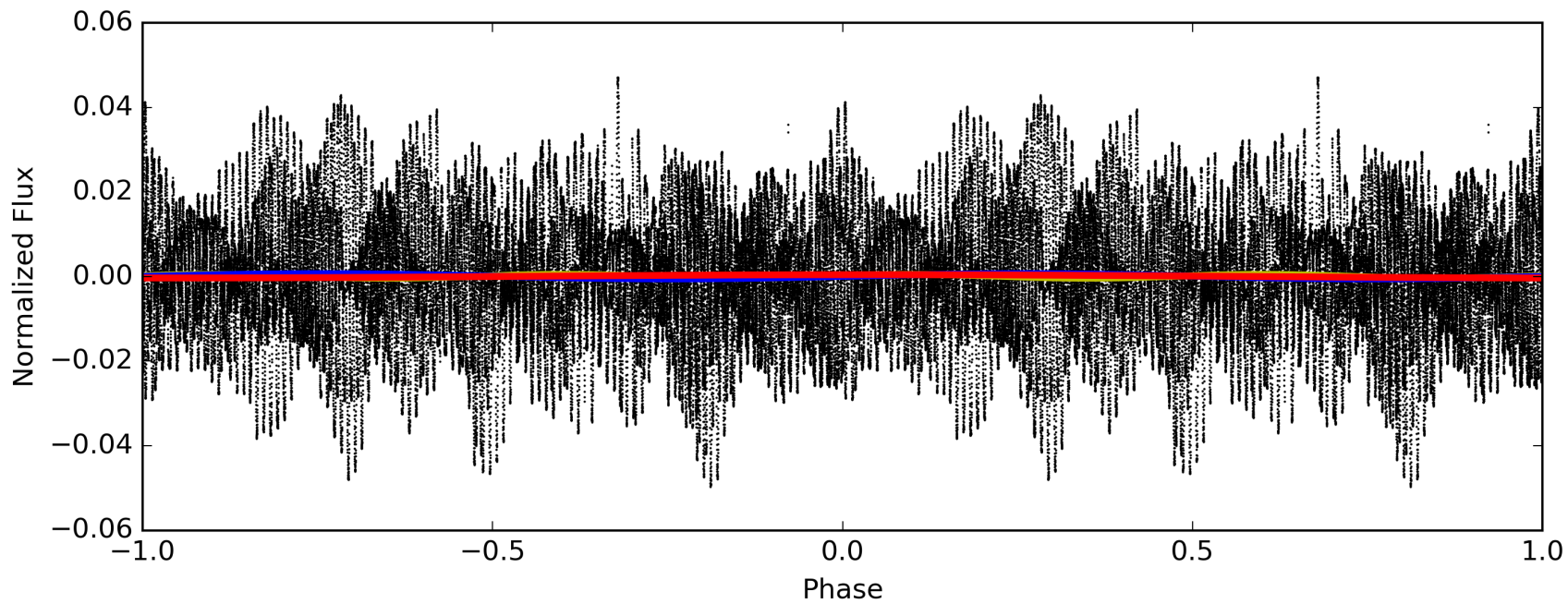
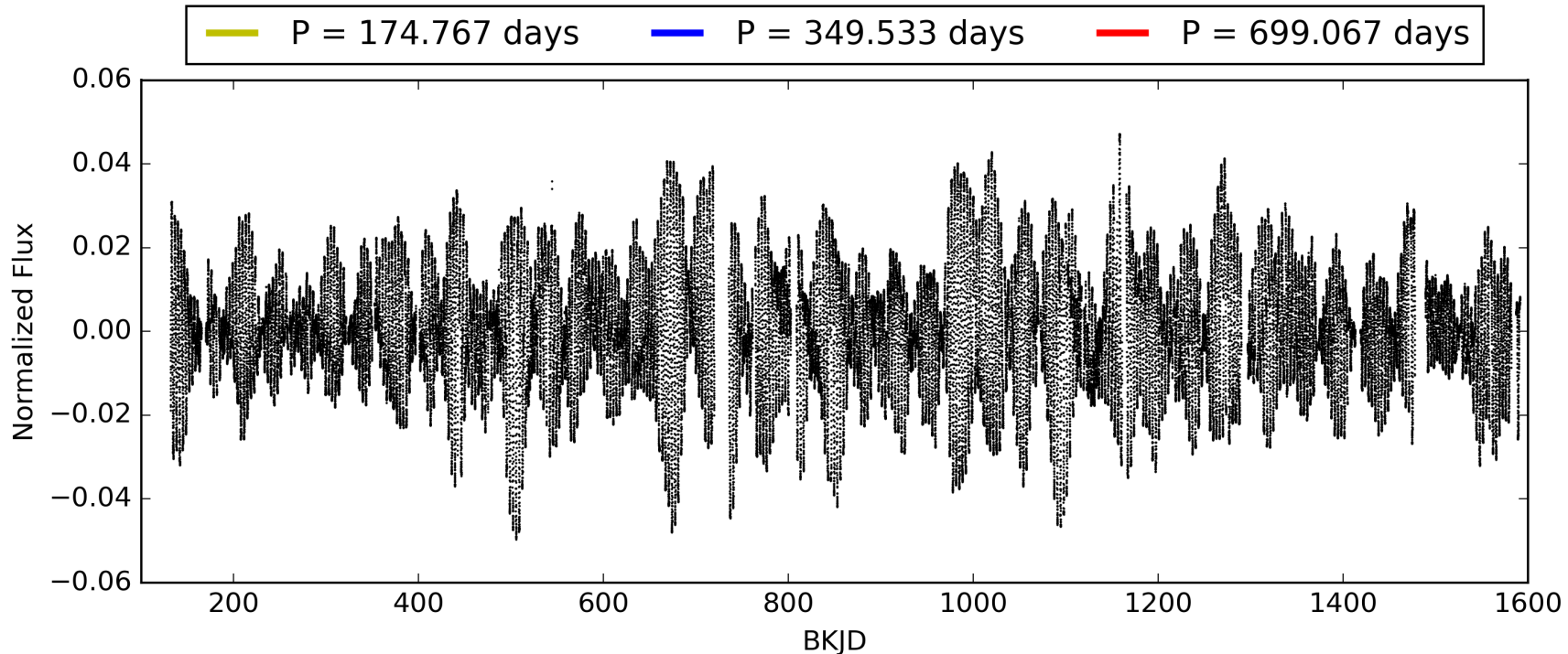
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 003119250-01, PDC Light Curves

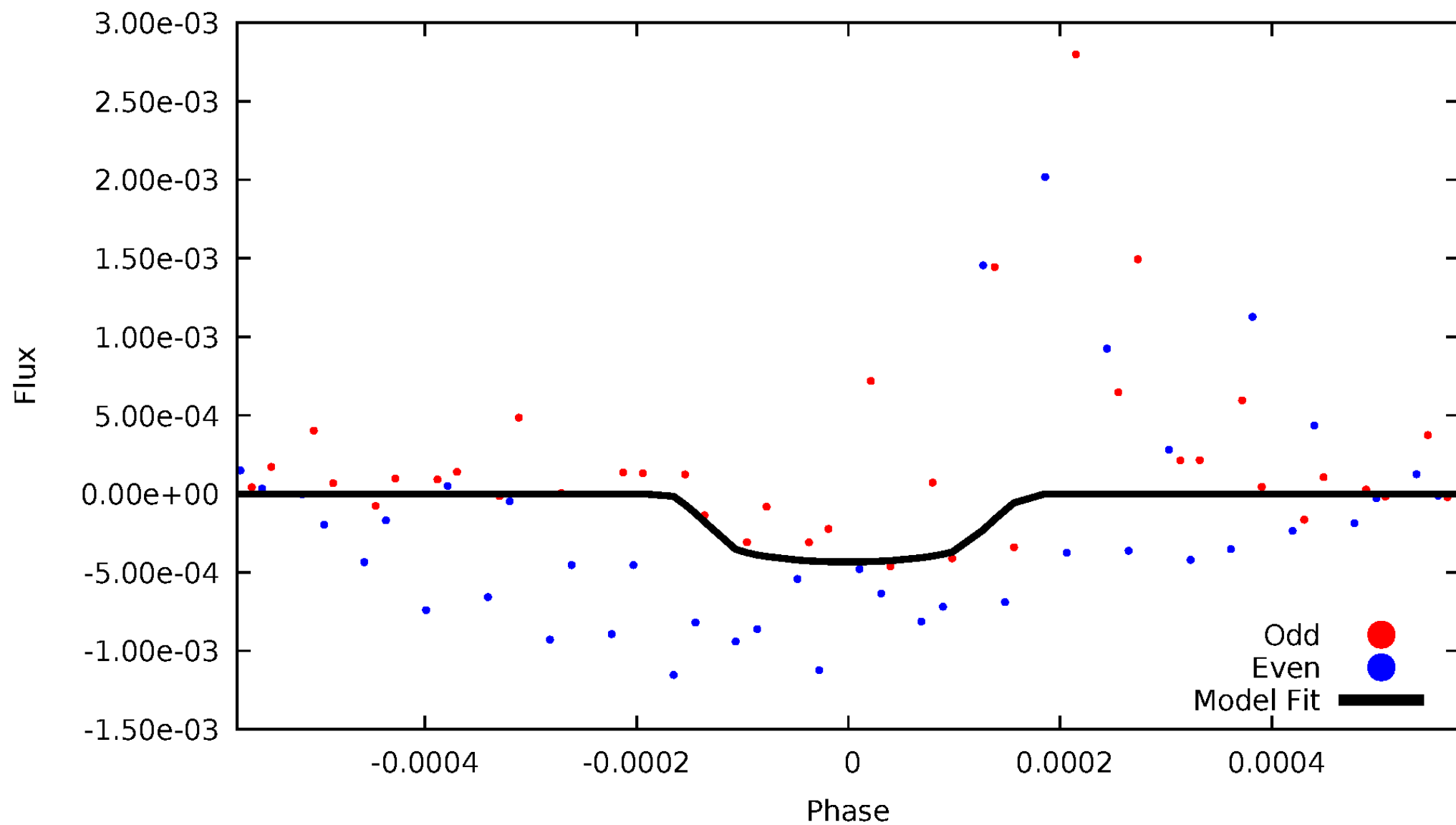


TCE 003119250-01



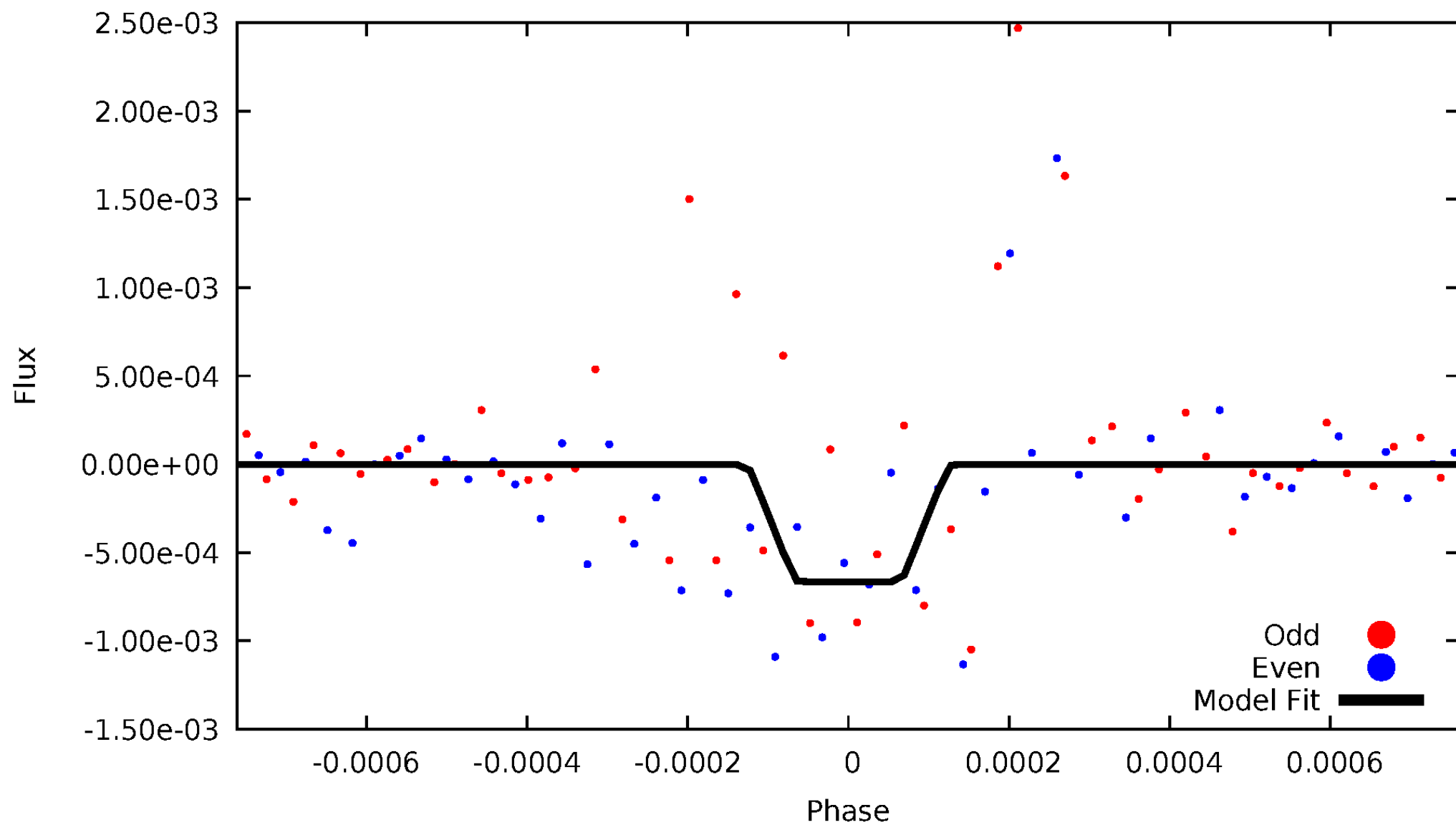
DV Odd/Even

TCE 003119250-01



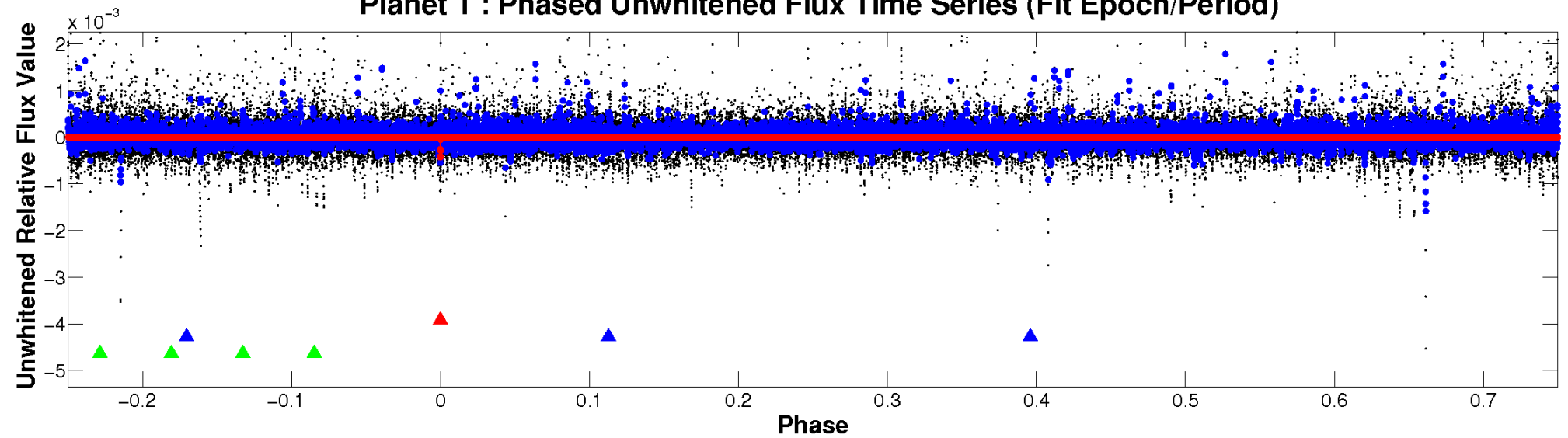
ALT Odd/Even

TCE 003119250-01

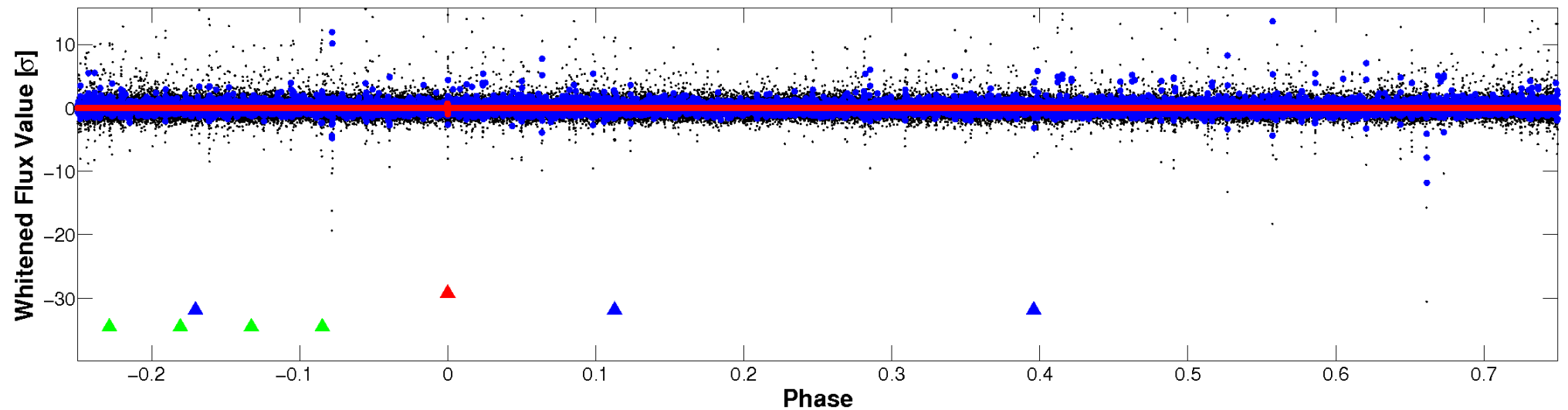


Non-Whitened Vs. Whitened Light Curve

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

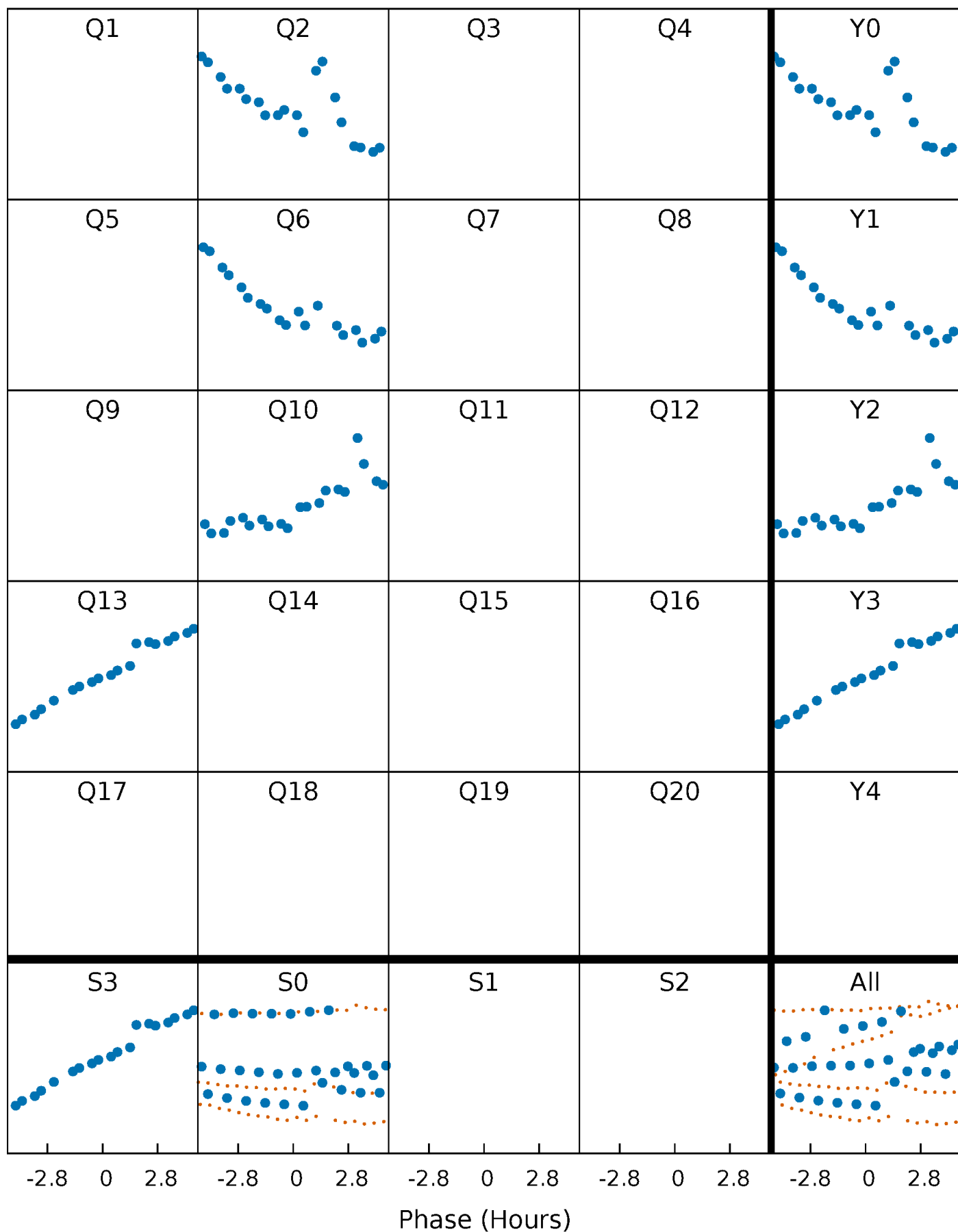


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



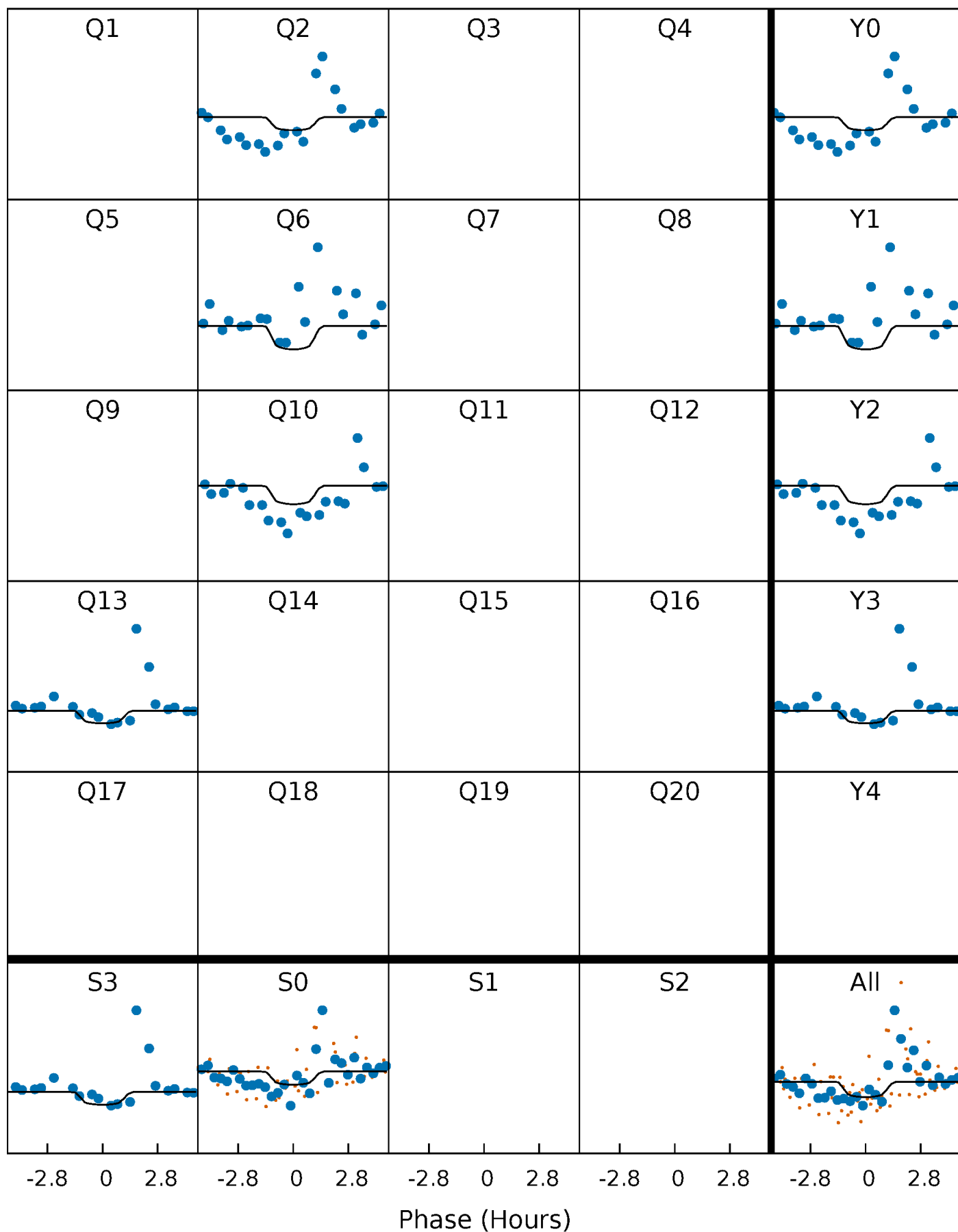
PDC Quarter-Phased Transit Curves

TCE 003119250-01 P=349.533364 Days $T_0=221.602858$ (BKJD)



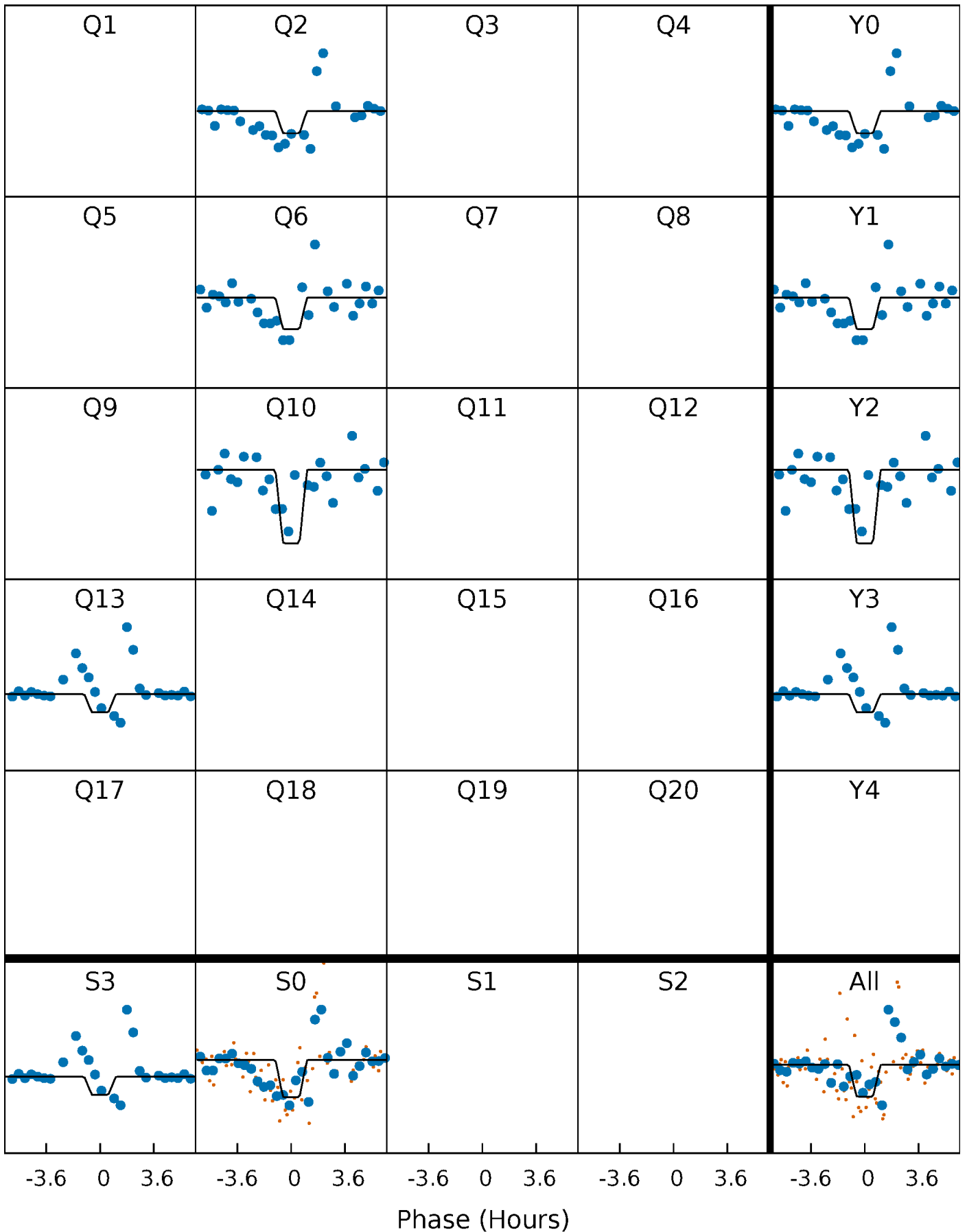
DV Quarter-Phased Transit Curves

TCE 003119250-01 P=349.533364 Days $T_0=221.602858$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

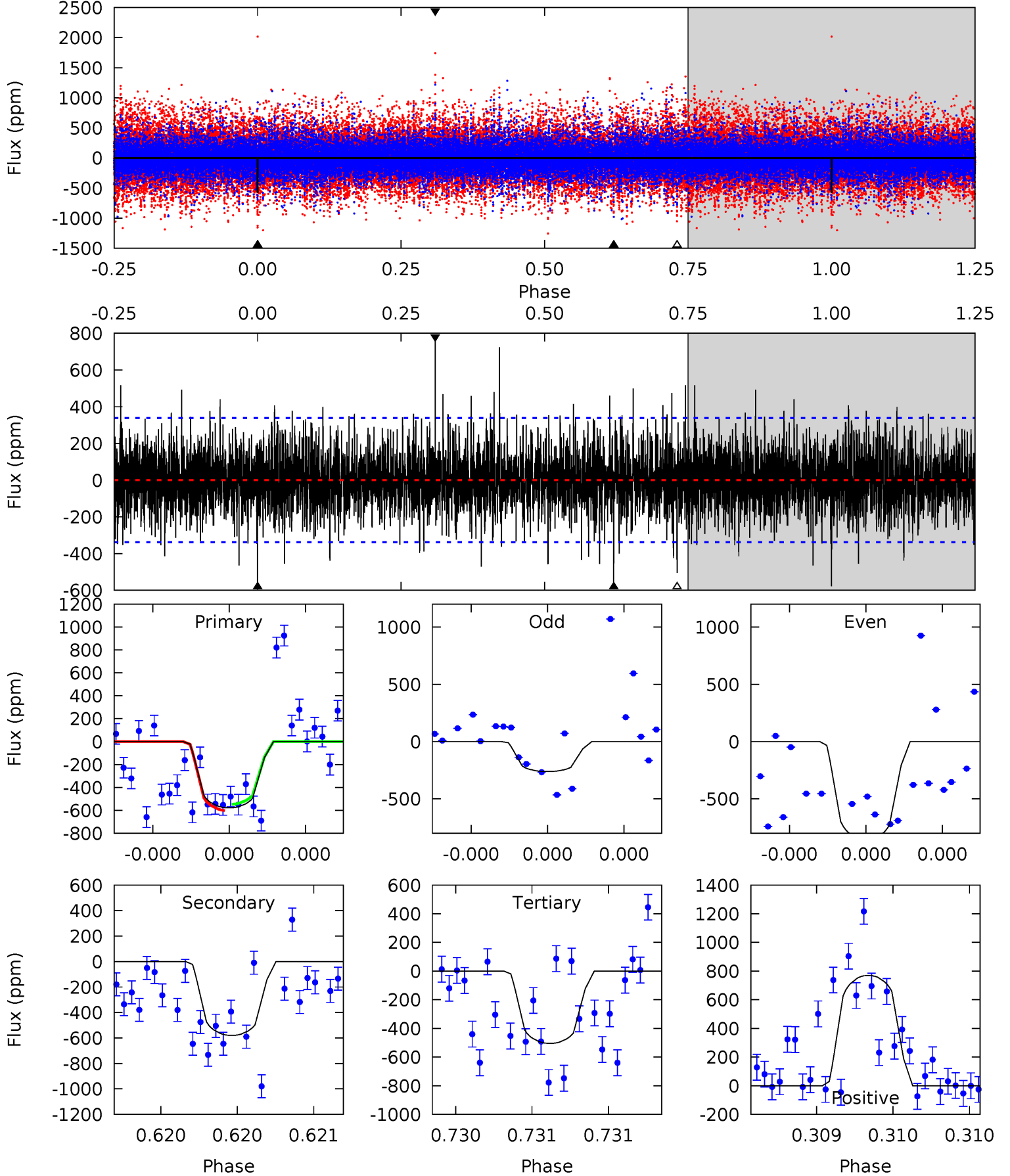
TCE 003119250-01 P=349.542410 Days $T_0=221.577025$ (BKJD)



DV Model-Shift Uniqueness Test

003119250-01, P = 349.533364 Days, E = 221.602858 Days

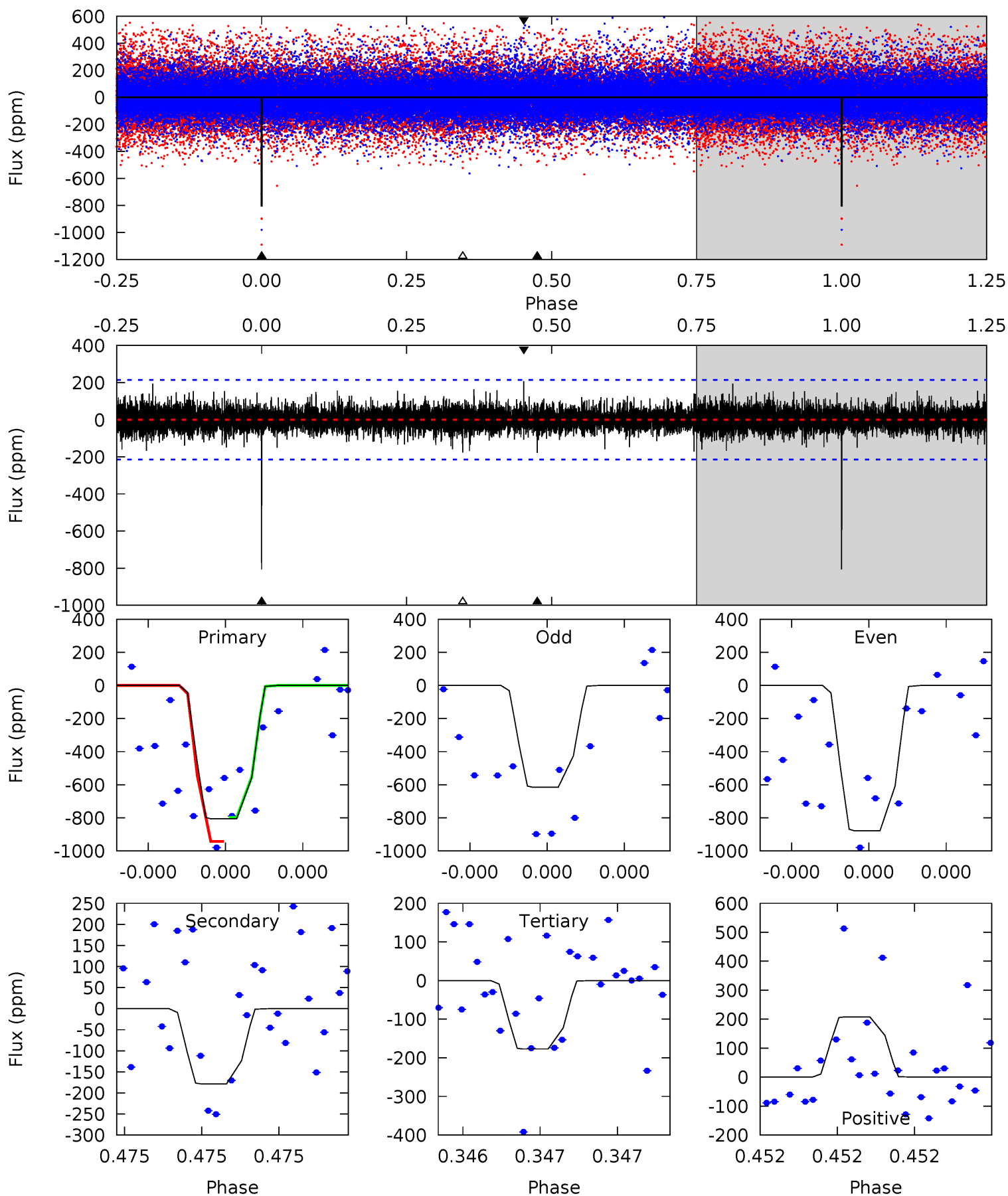
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.65	9.68	8.42	12.9	5.65	3.60	2.03	1.23	-3.20	1.26	-3.17	4.66	0.97	0.57	0.45



Alt Model-Shift Uniqueness Test

003119250-01, P = 349.542410 Days, E = 221.577025 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.4	4.74	4.70	5.52	5.69	3.66	0.97	16.7	15.9	0.03	-0.78	3.50	1.11	0.20	1.79



Stellar Parameters For KIC 003119250

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5522^{+165}_{-148}	$4.548^{+0.093}_{-0.085}$	$-0.720^{+0.300}_{-0.300}$	$0.738^{+0.098}_{-0.081}$	$0.703^{+0.087}_{-0.035}$	$2.458^{+0.894}_{-0.655}$
	+3%/-3%	+2%/-2%	+42%/-42%	+13%/-11%	+12%/-5%	+36%/-27%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003119250-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-580 ± 60	$7.02^{+6.88}_{-4.94}$	315^{+13}_{-13}	3407^{+1890}_{-613}	4993^{+50392}_{-3772}
Alt.	-178 ± 38	$7.38^{+8.30}_{-5.09}$	314^{+15}_{-13}	2842^{+1275}_{-496}	1318^{+12896}_{-1026}

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 $A_{obs} \gg 1.0$

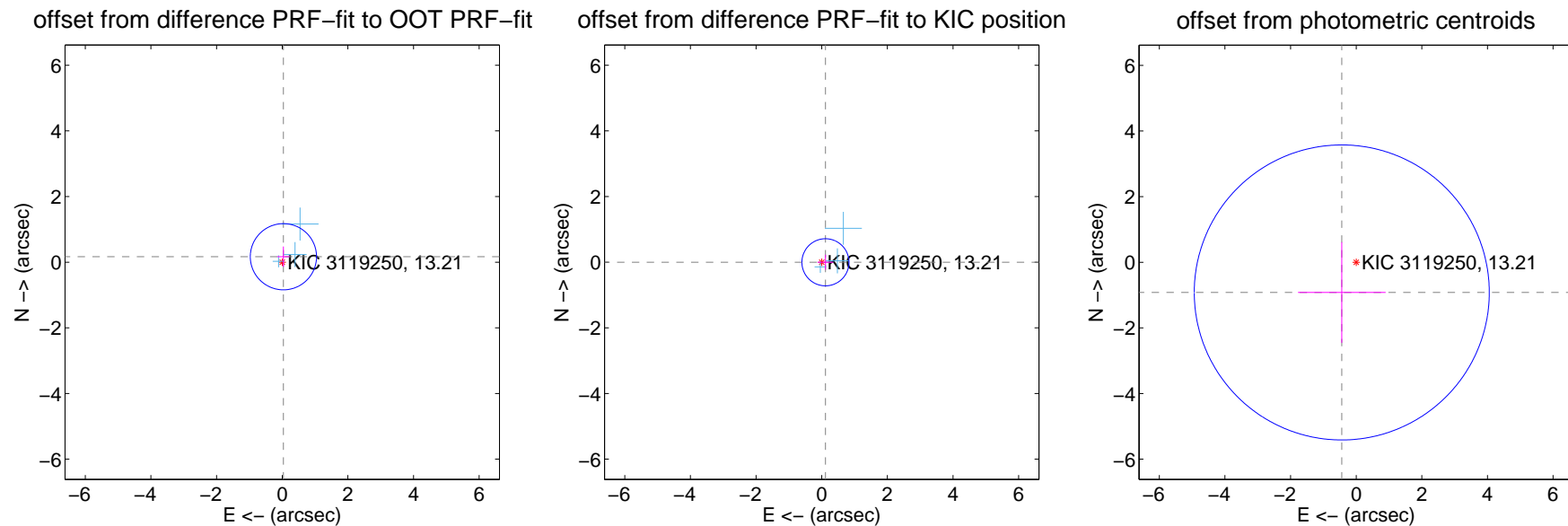
DV Centroid Data

Supplemental centroid analysis for 003119250-01. Kepler magnitude: 13.21. Transit SNR 4.01

There are 3 quarters with good PRF difference image offsets

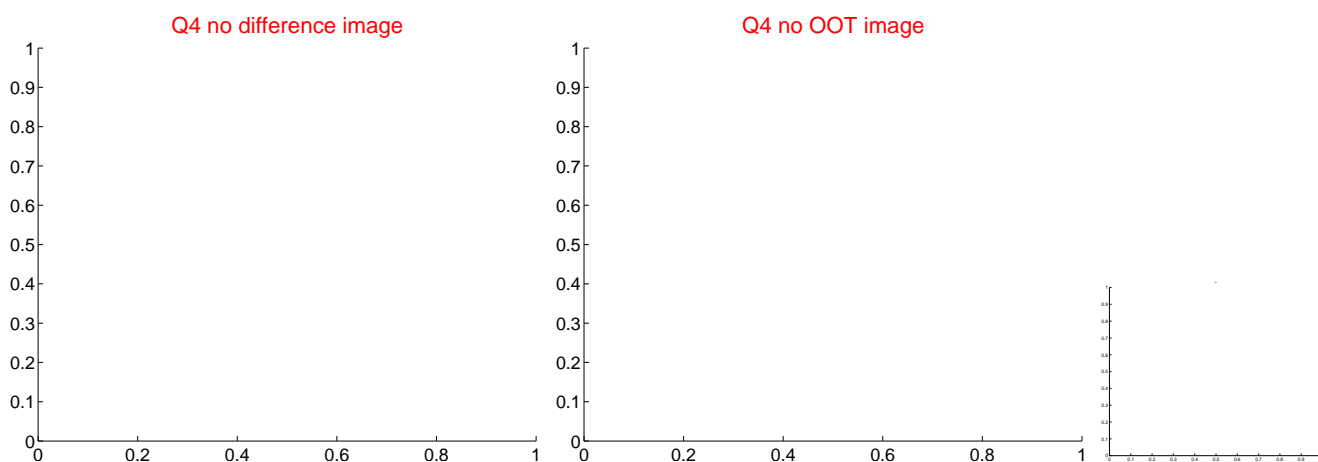
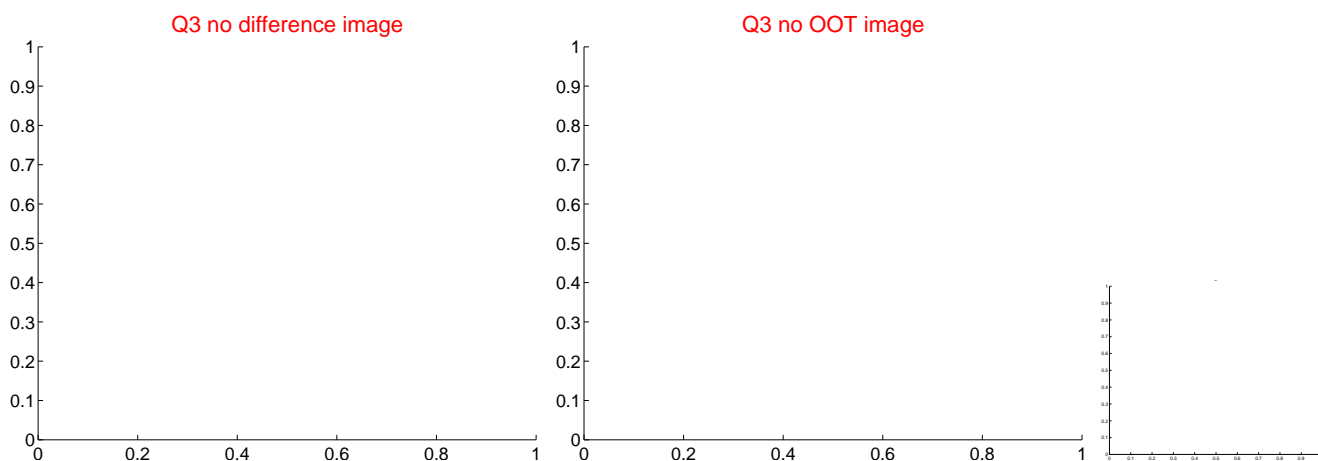
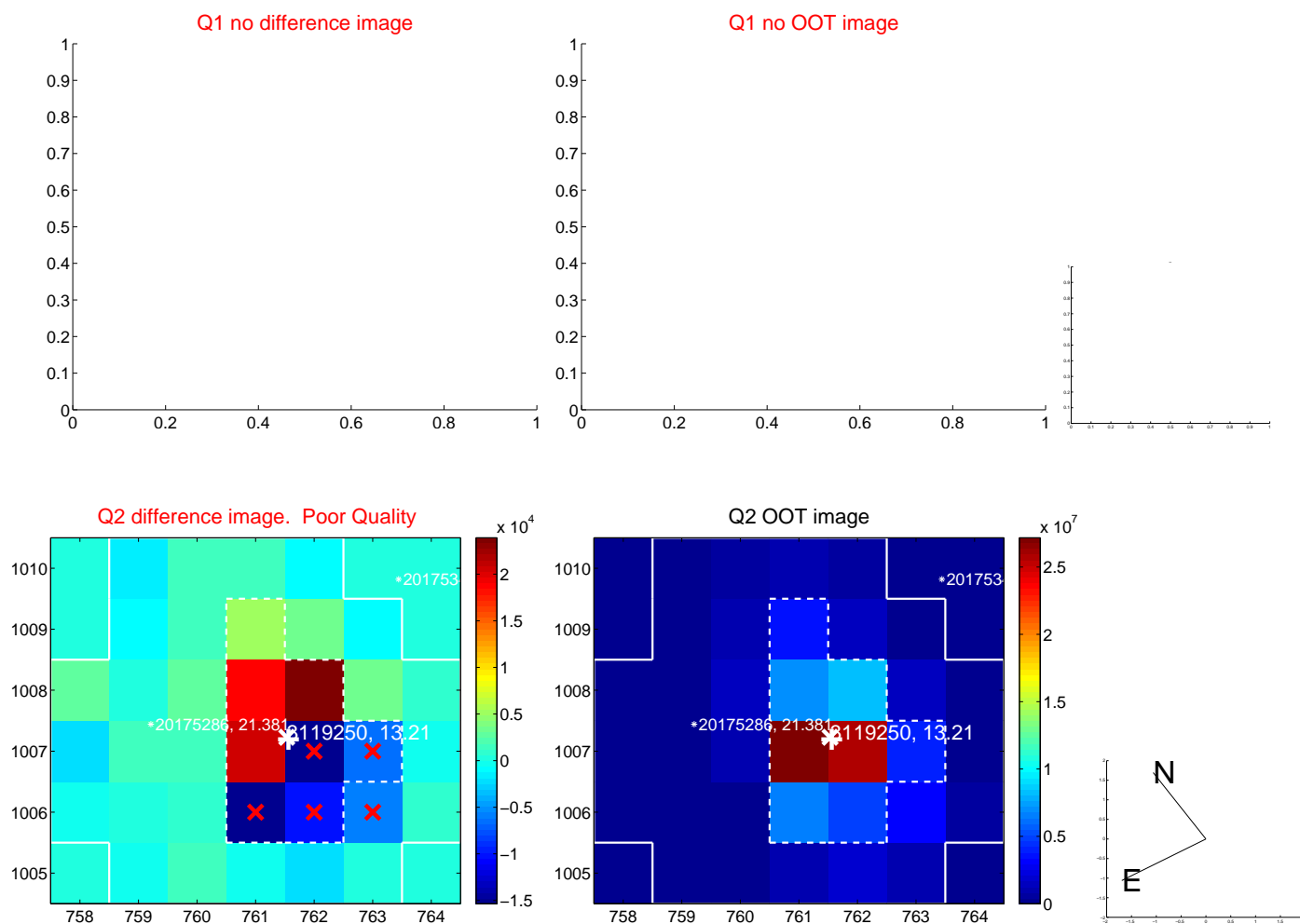
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.170 ± 0.336	0.51	-0.036 ± 0.189	0.167 ± 0.310
PRF-fit source offset from KIC position	0.114 ± 0.239	0.48	-0.114 ± 0.239	-0.003 ± 0.229
photometric centroid source offset	1.02 ± 1.50	0.68	0.44 ± 1.34	-0.92 ± 1.53



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.

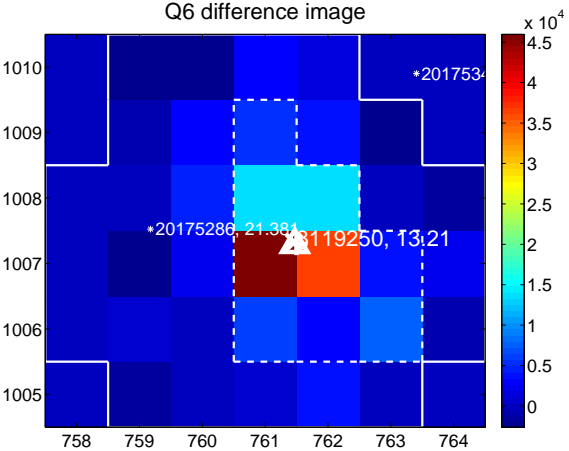
Q5 no difference image



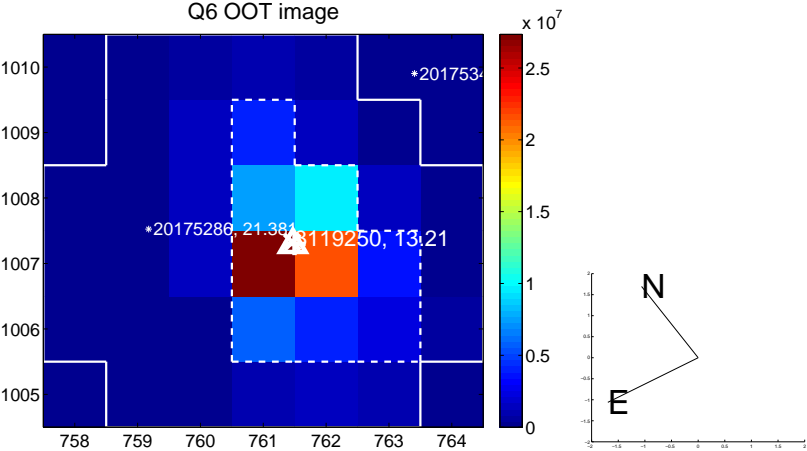
Q5 no OOT image



Q6 difference image



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.

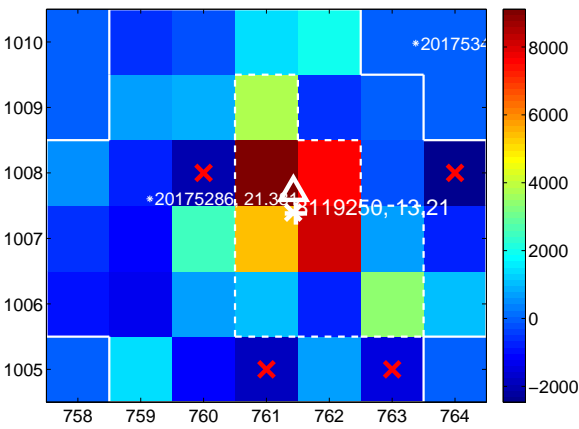
Q9 no difference image



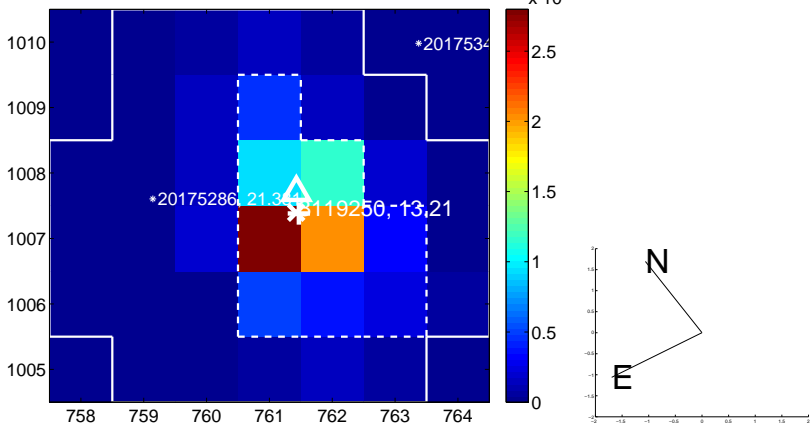
Q9 no OOT image



Q10 difference image



Q10 OOT image



Q11 no difference image



Q11 no OOT image



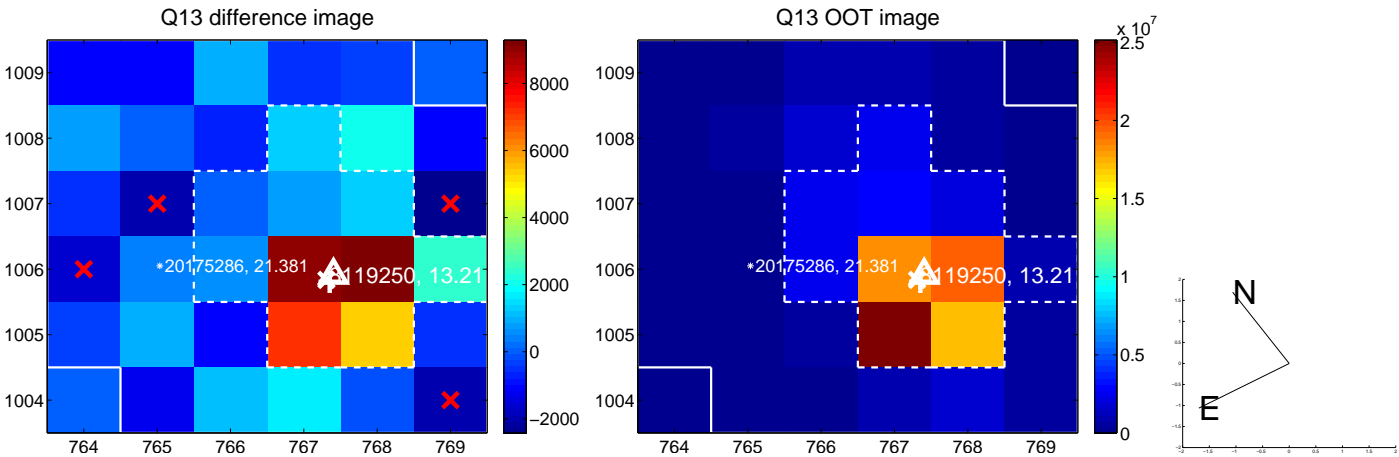
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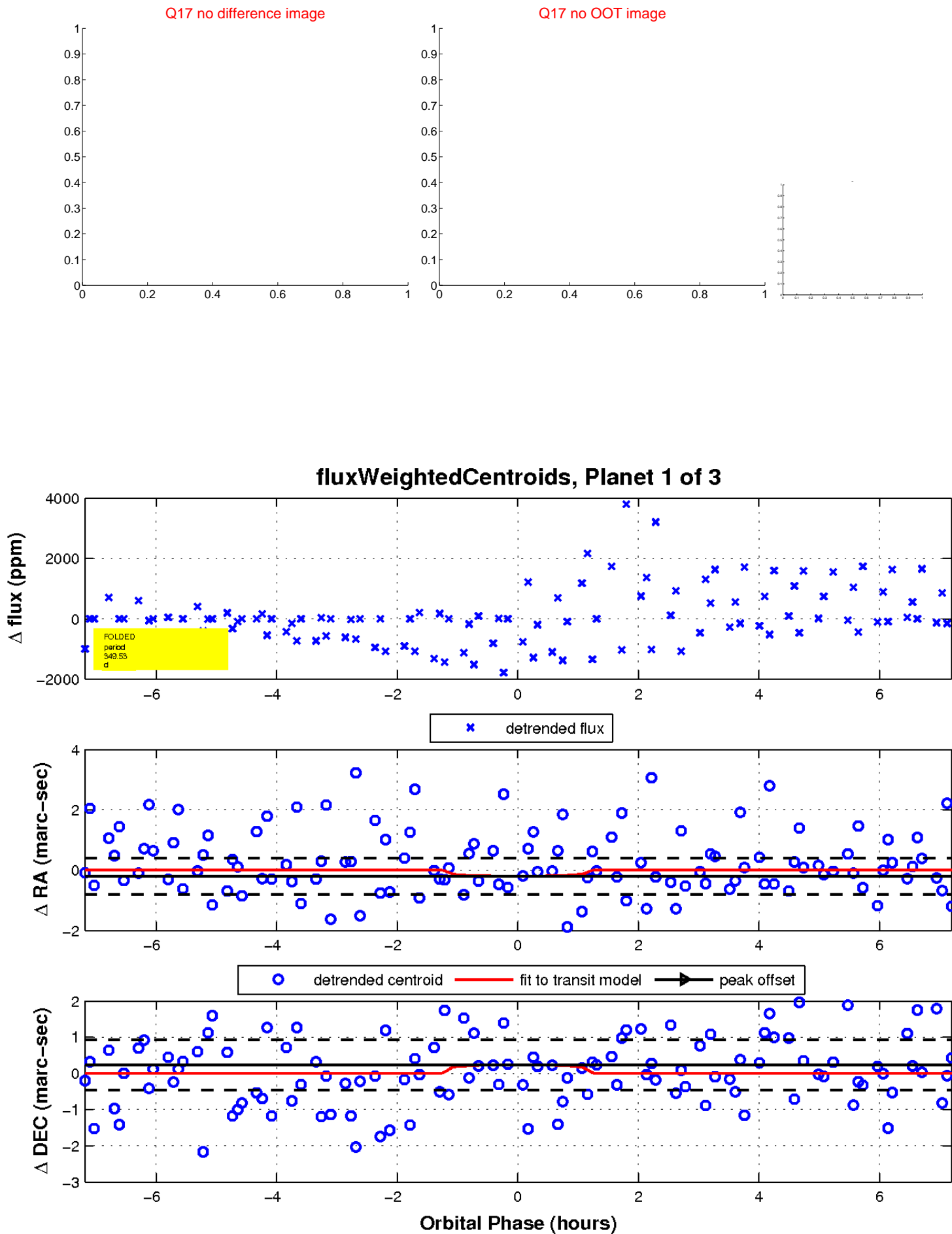
Q12 no OOT image



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

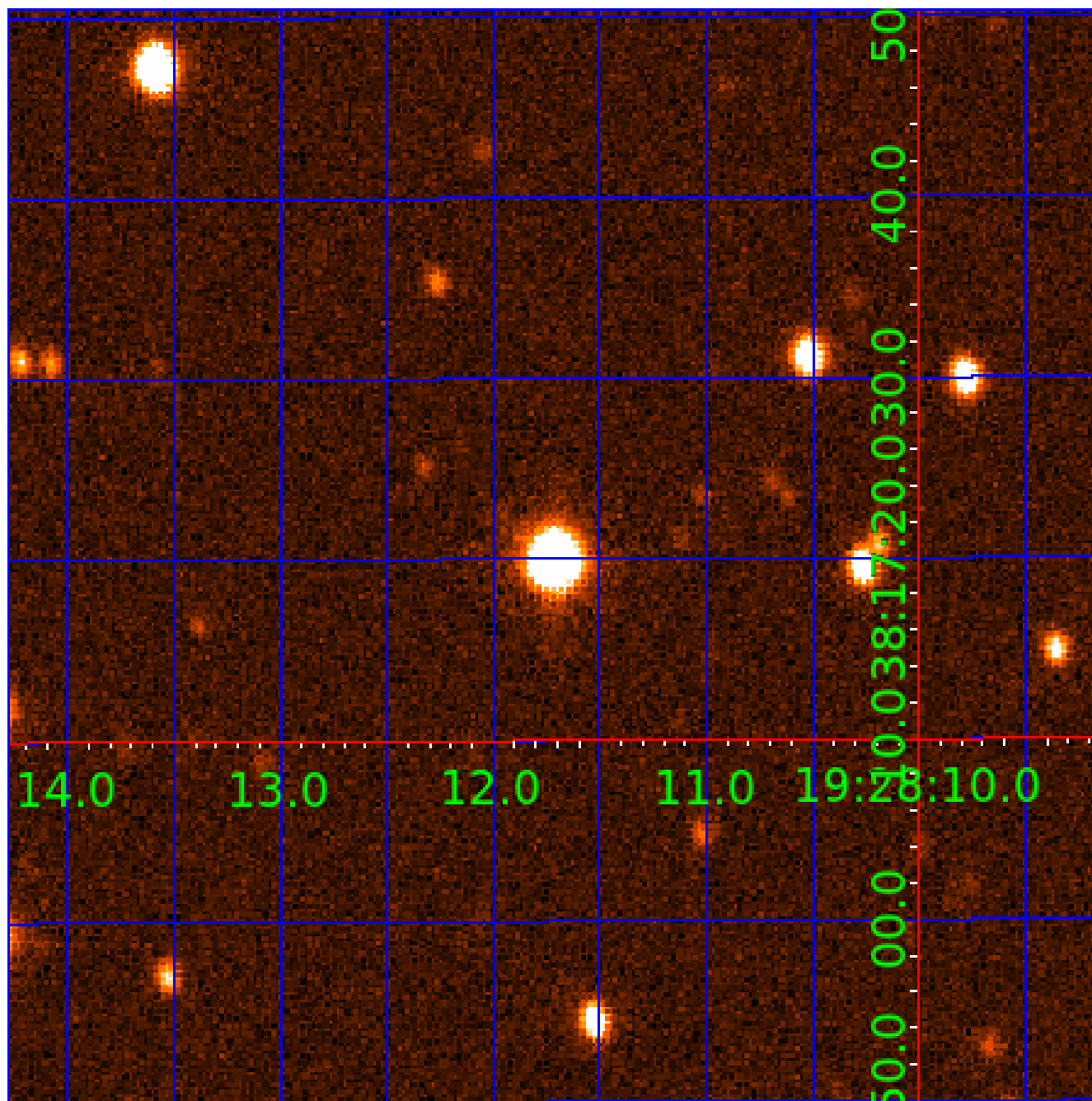


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UKIRT Image

Declination



KIC 003119250

Q1-17 DR25 TCE Parameters

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003119250-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

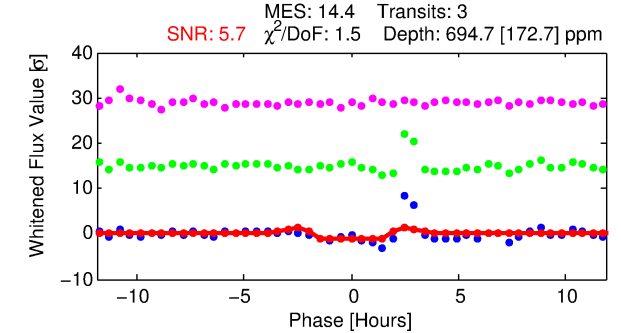
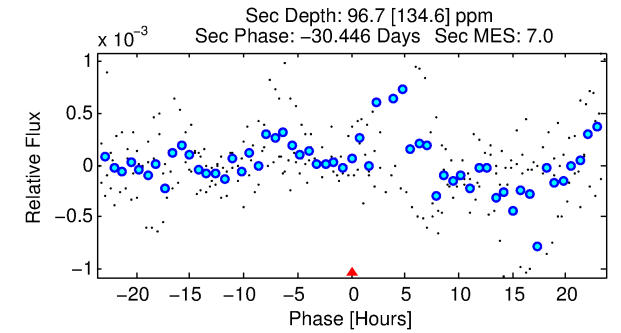
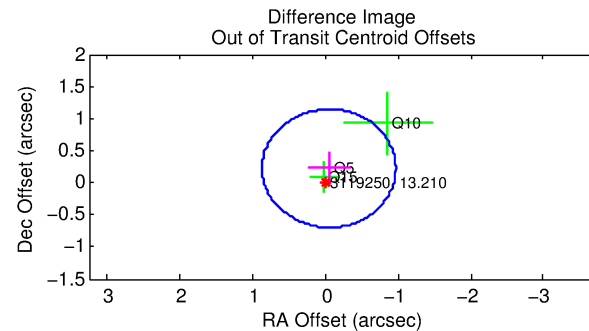
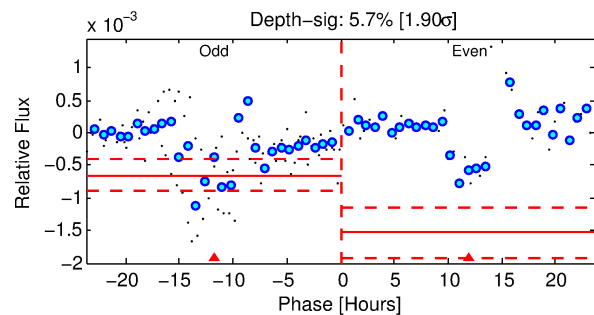
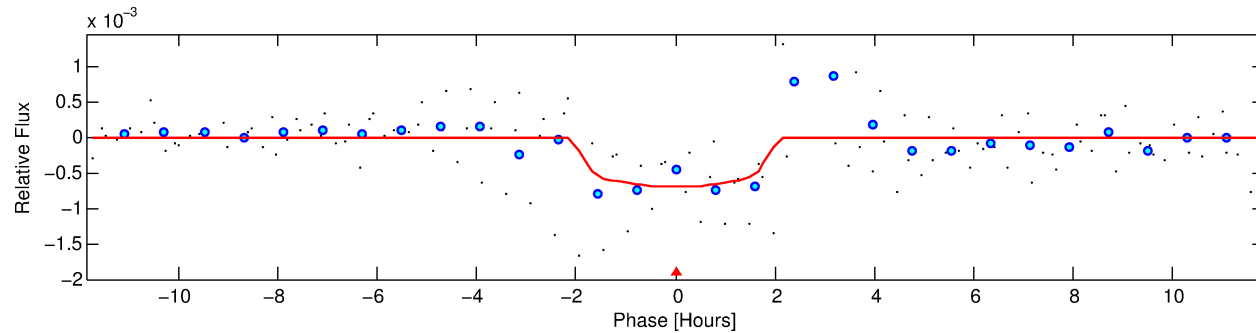
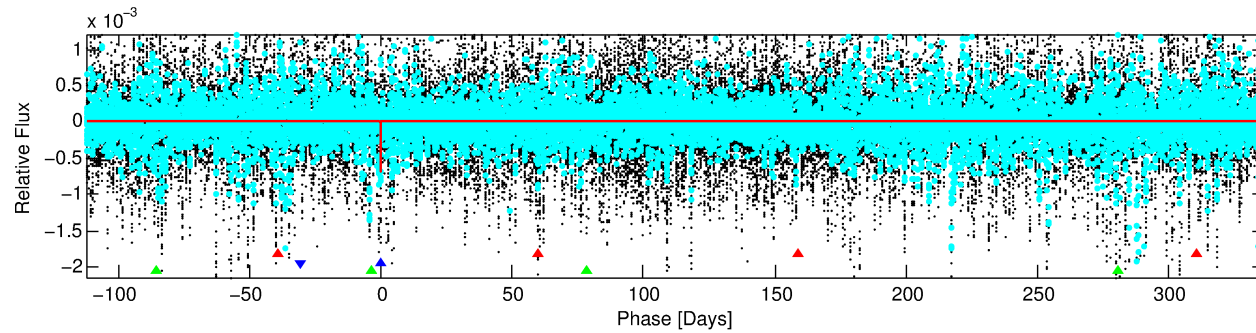
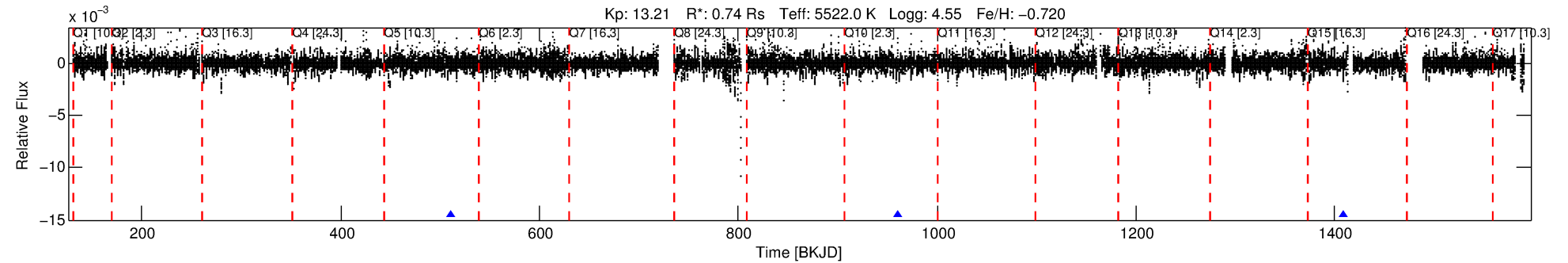
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003119250-02

No Significant Match Found

DV One-Page Summary

KIC: 3119250 Candidate: 2 of 3 Period: 448.502 d



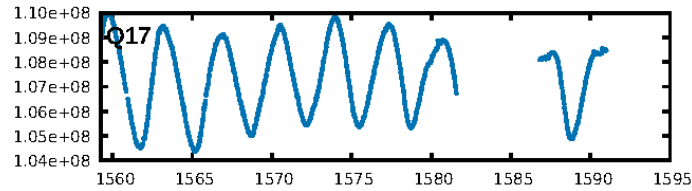
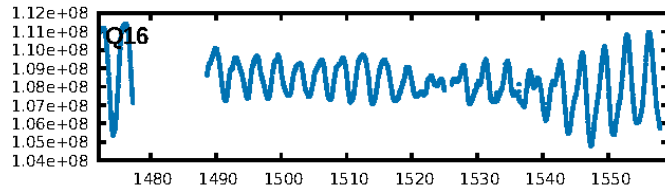
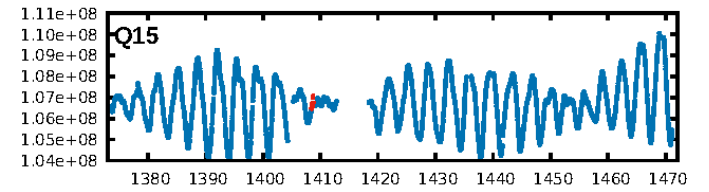
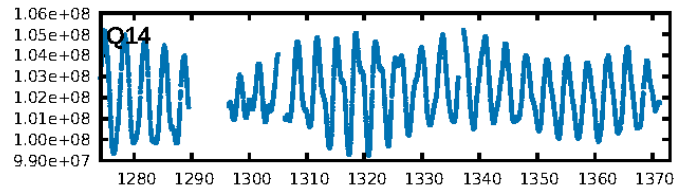
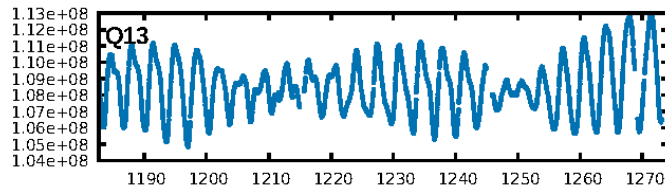
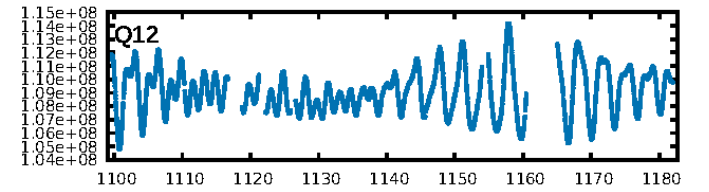
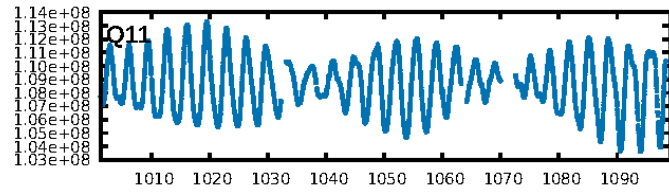
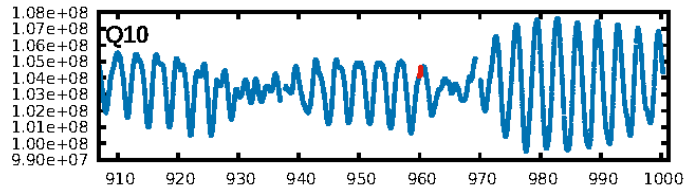
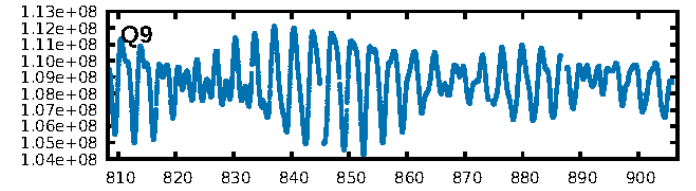
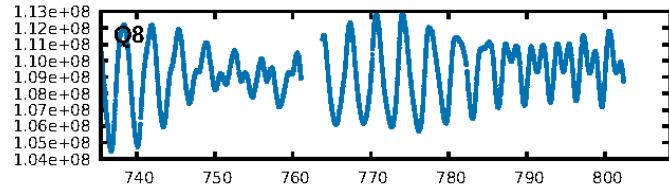
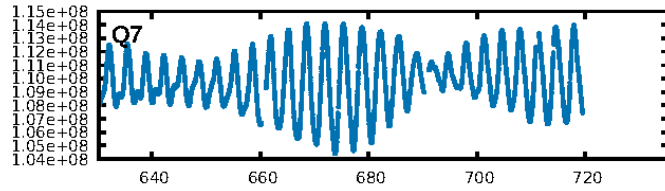
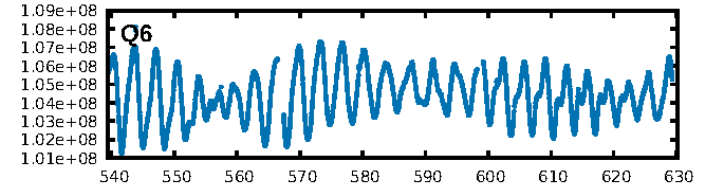
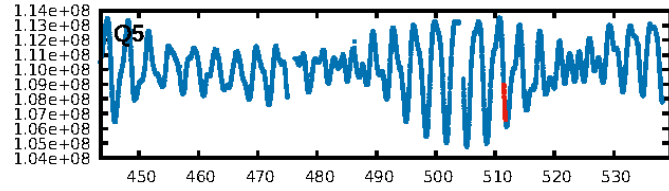
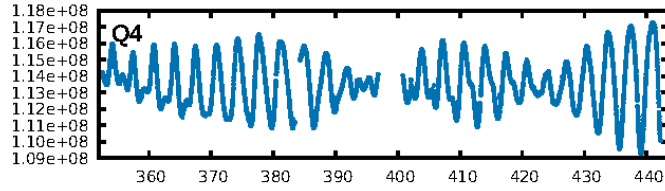
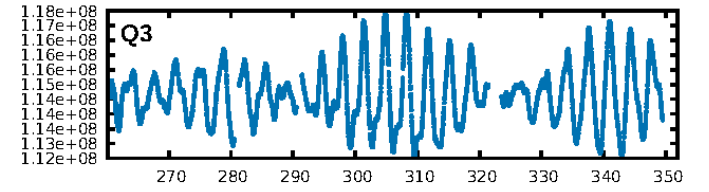
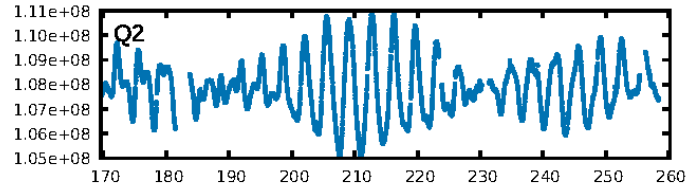
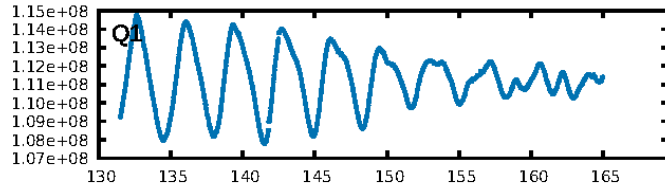
DV Fit Results:

Period = 448.50213 [0.00784] d
Epoch = 511.5863 [0.0082] BKJD
Rp/R* = 0.0246 [0.0544]
a/R* = 789.21 [7879.43]
b = 0.47 [16.69]
Seff = 0.44 [0.09]
Teq = 207 [11] K
Rp = 1.99 [4.39] Re
a = 1.0192 [0.1159] AU
Ag = 14029.92 [64959.35] [0.22σ]
Teffp = 3488 [4036] K [0.81σ]

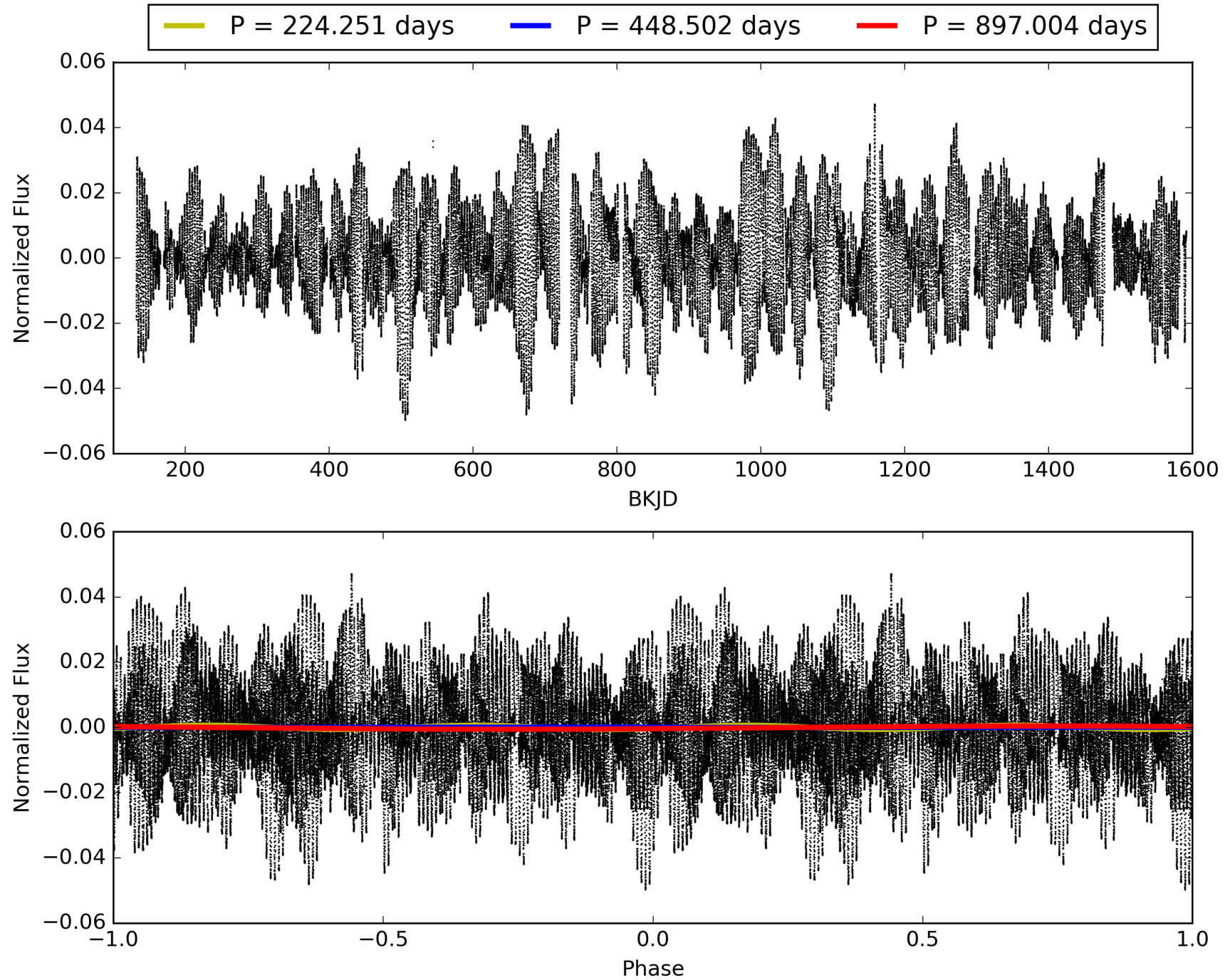
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [411.13σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.6%
ModelChiSquareGof-sig: 26.0%
Bootstrap-pfa: 1.04e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.564
Centroid-sig: 4.0%
Centroid-so: 1.931 arcsec [1.81σ]
OotOffset-rm: 0.229 arcsec [0.75σ]
KicOffset-rm: 0.092 arcsec [0.39σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 003119250-02, PDC Light Curves

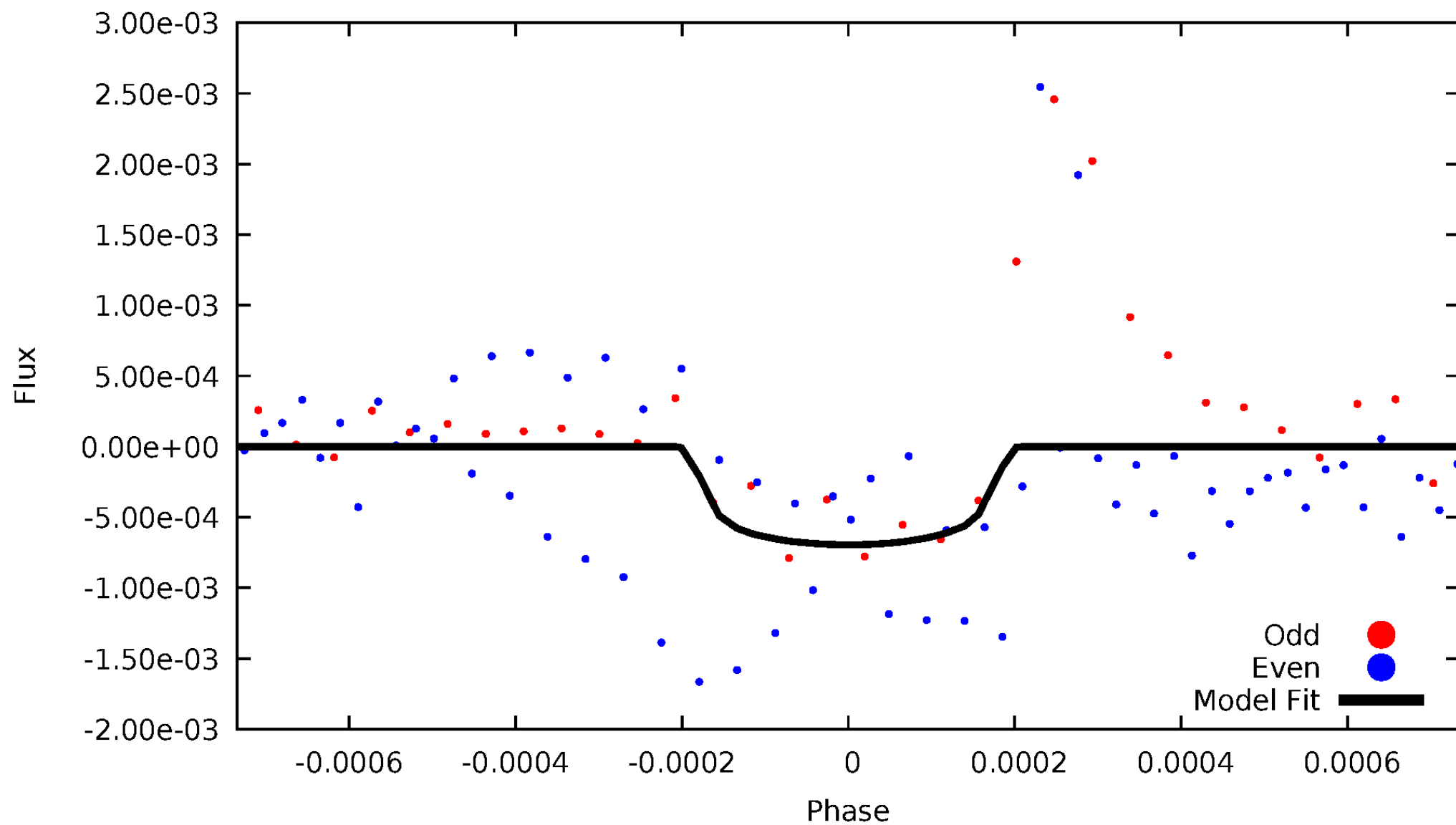


TCE 003119250-02



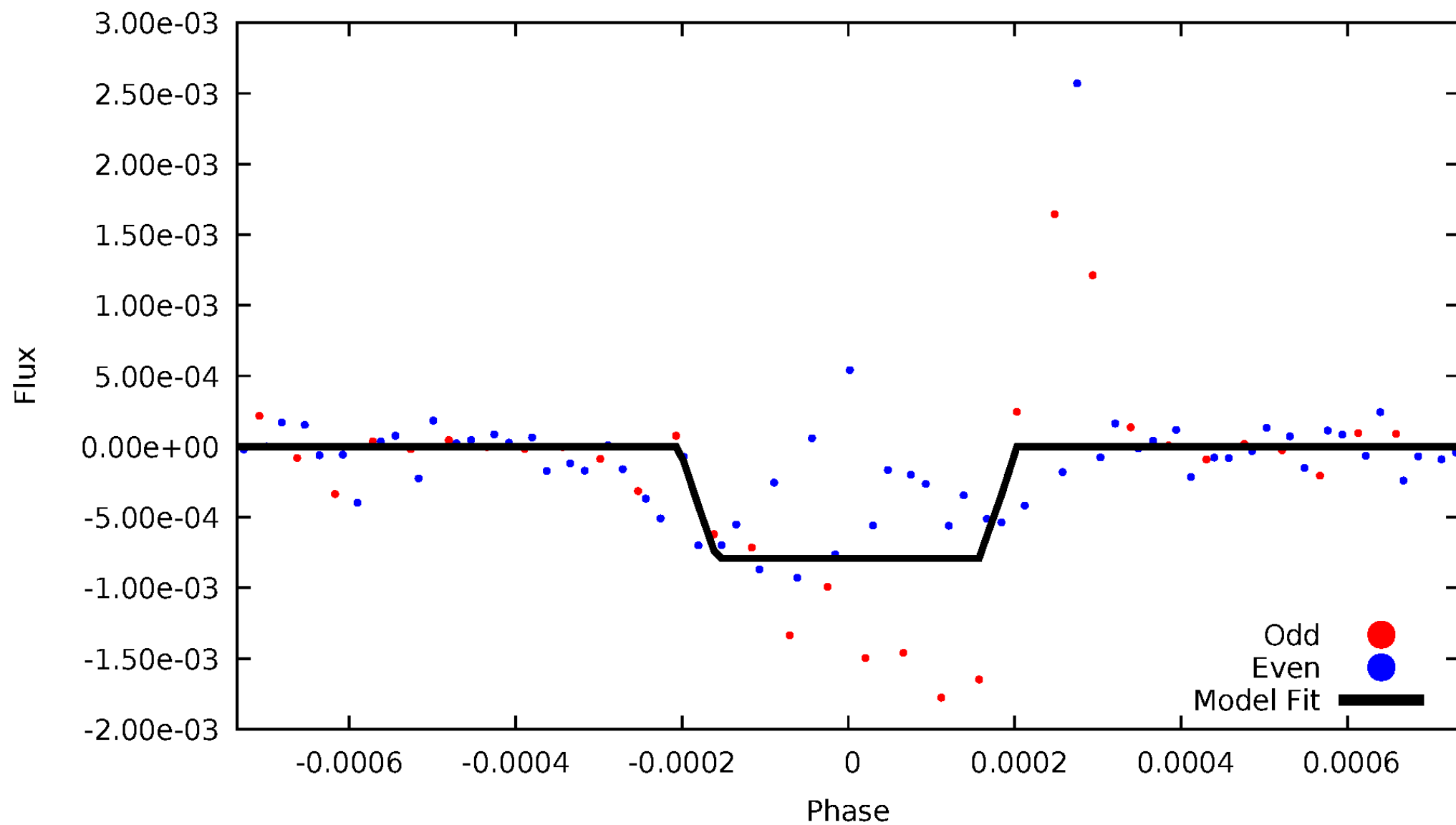
DV Odd/Even

TCE 003119250-02



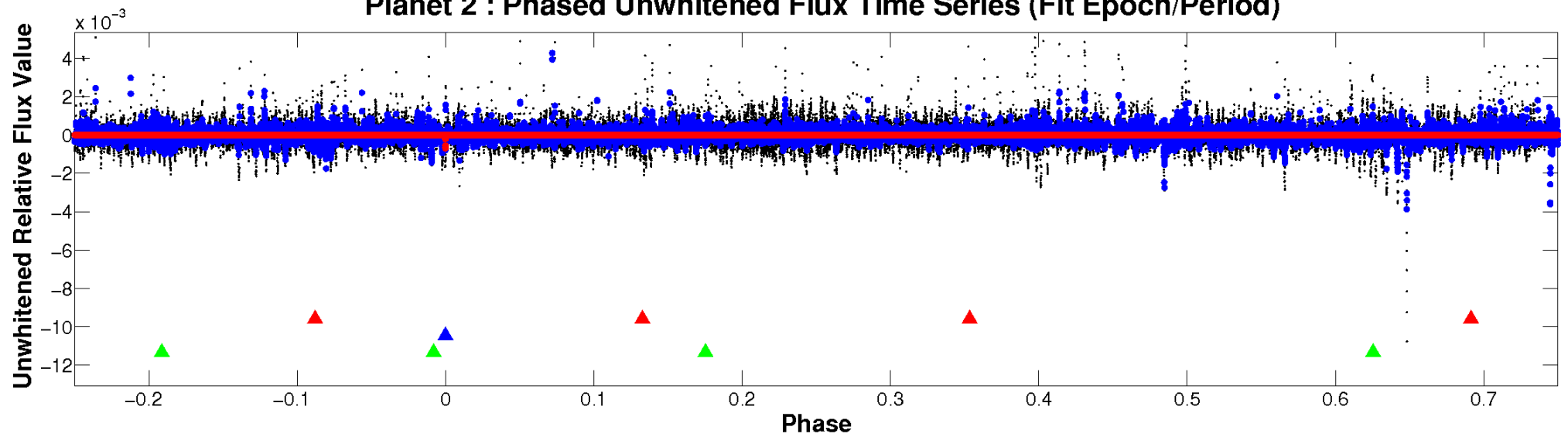
ALT Odd/Even

TCE 003119250-02

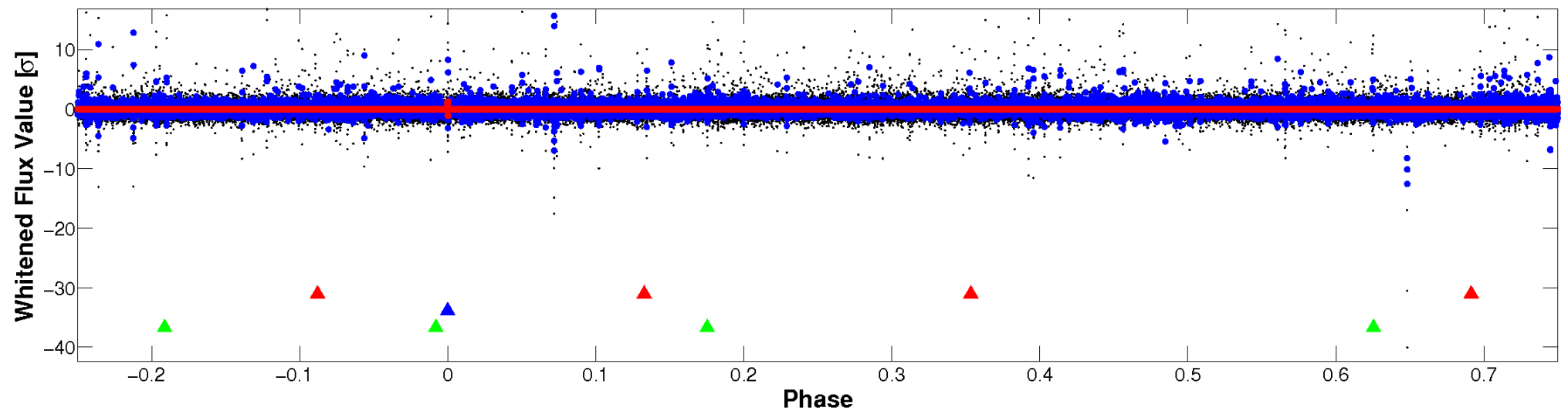


Non-Whitened Vs. Whitened Light Curve

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

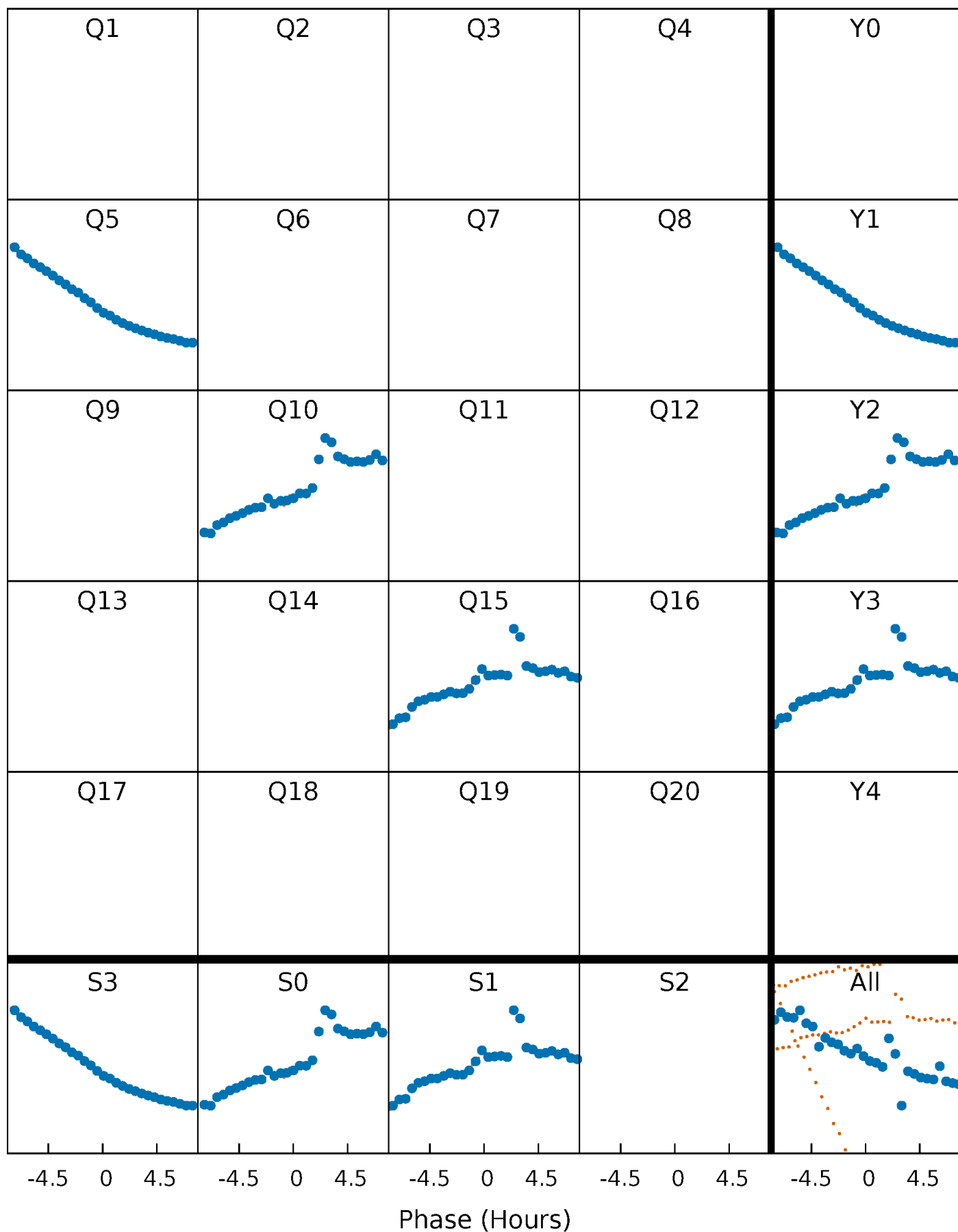


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



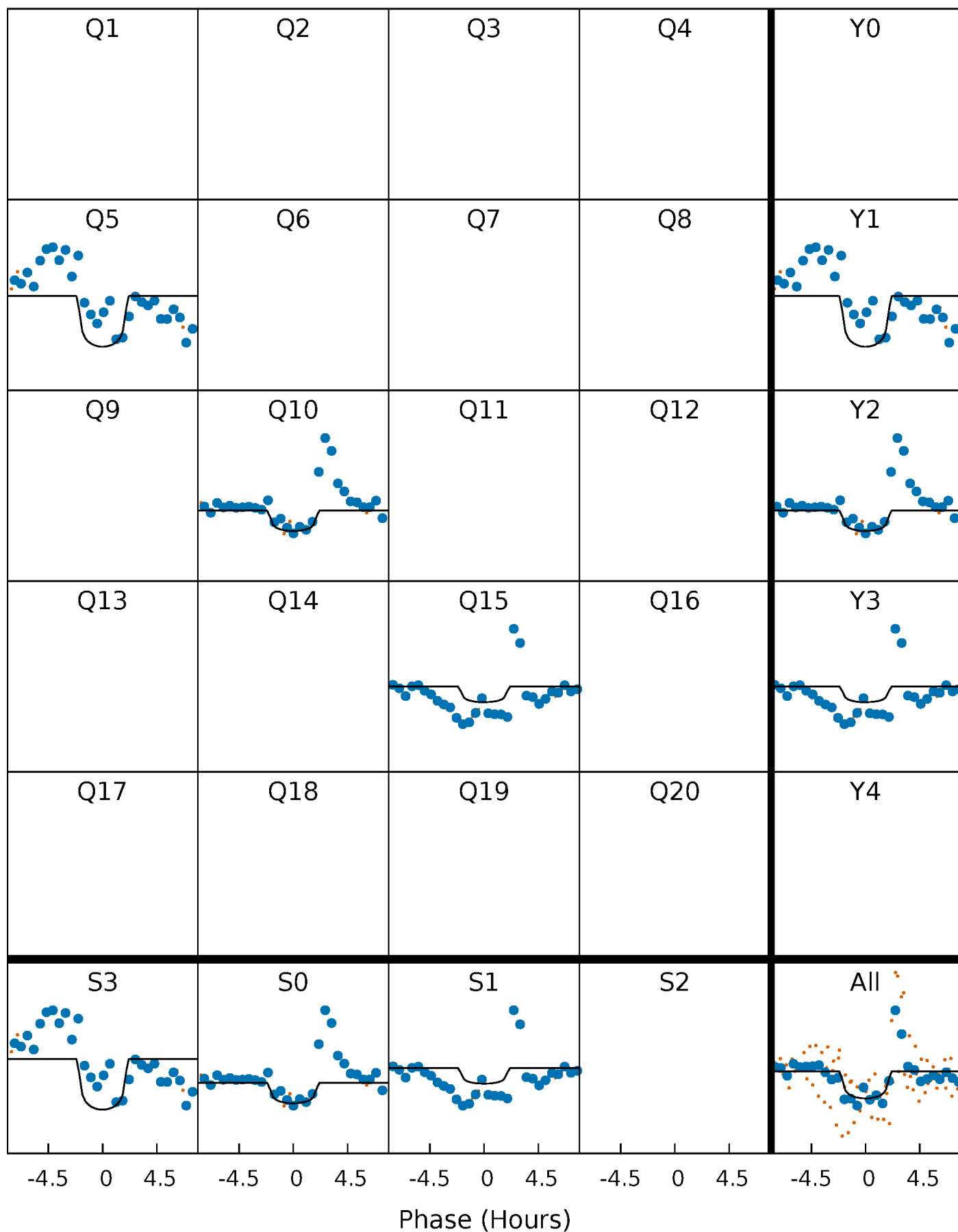
PDC Quarter-Phased Transit Curves

TCE 003119250-02 P=448.502126 Days $T_0=511.586270$ (BKJD)



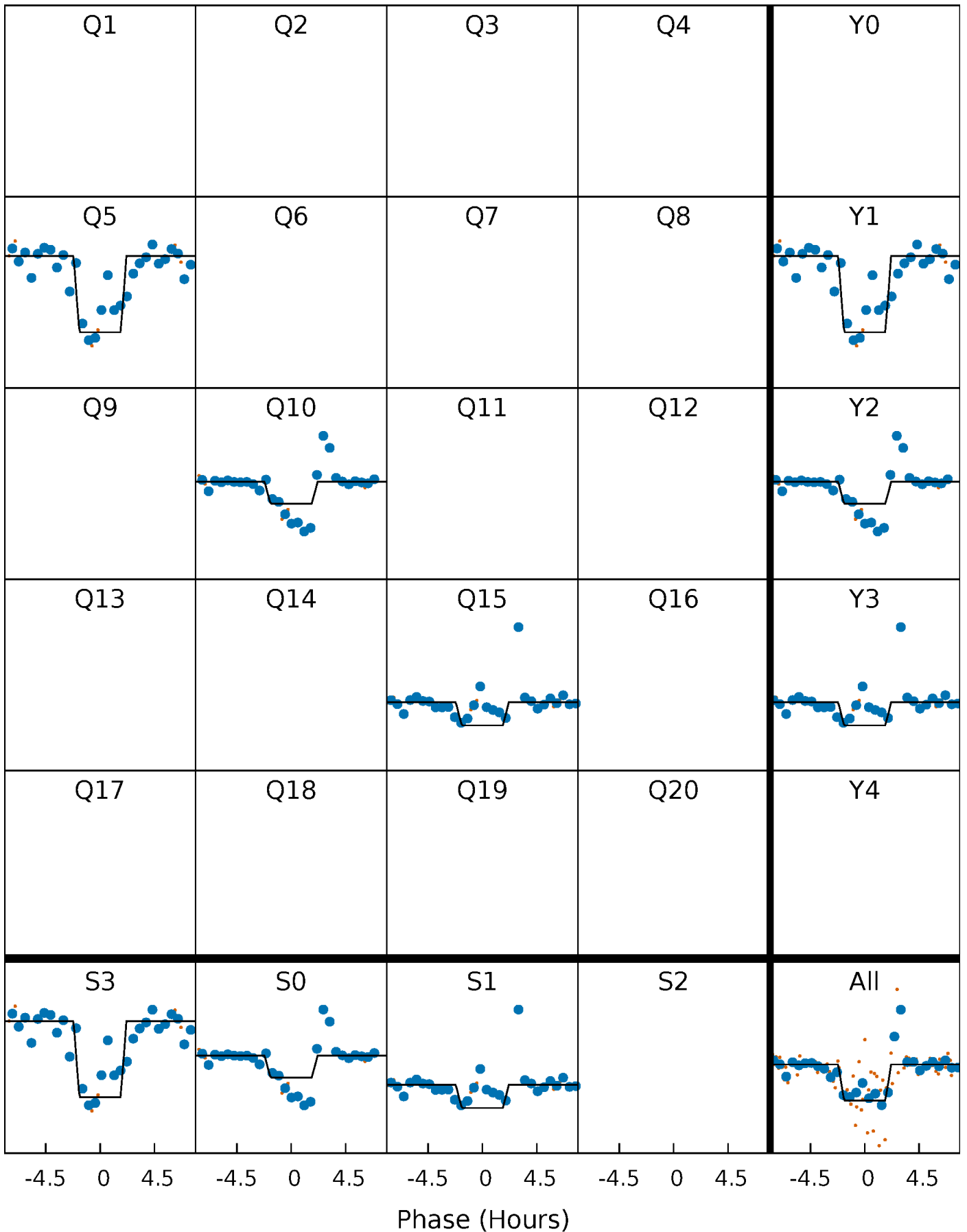
DV Quarter-Phased Transit Curves

TCE 003119250-02 P=448.502126 Days $T_0=511.586270$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

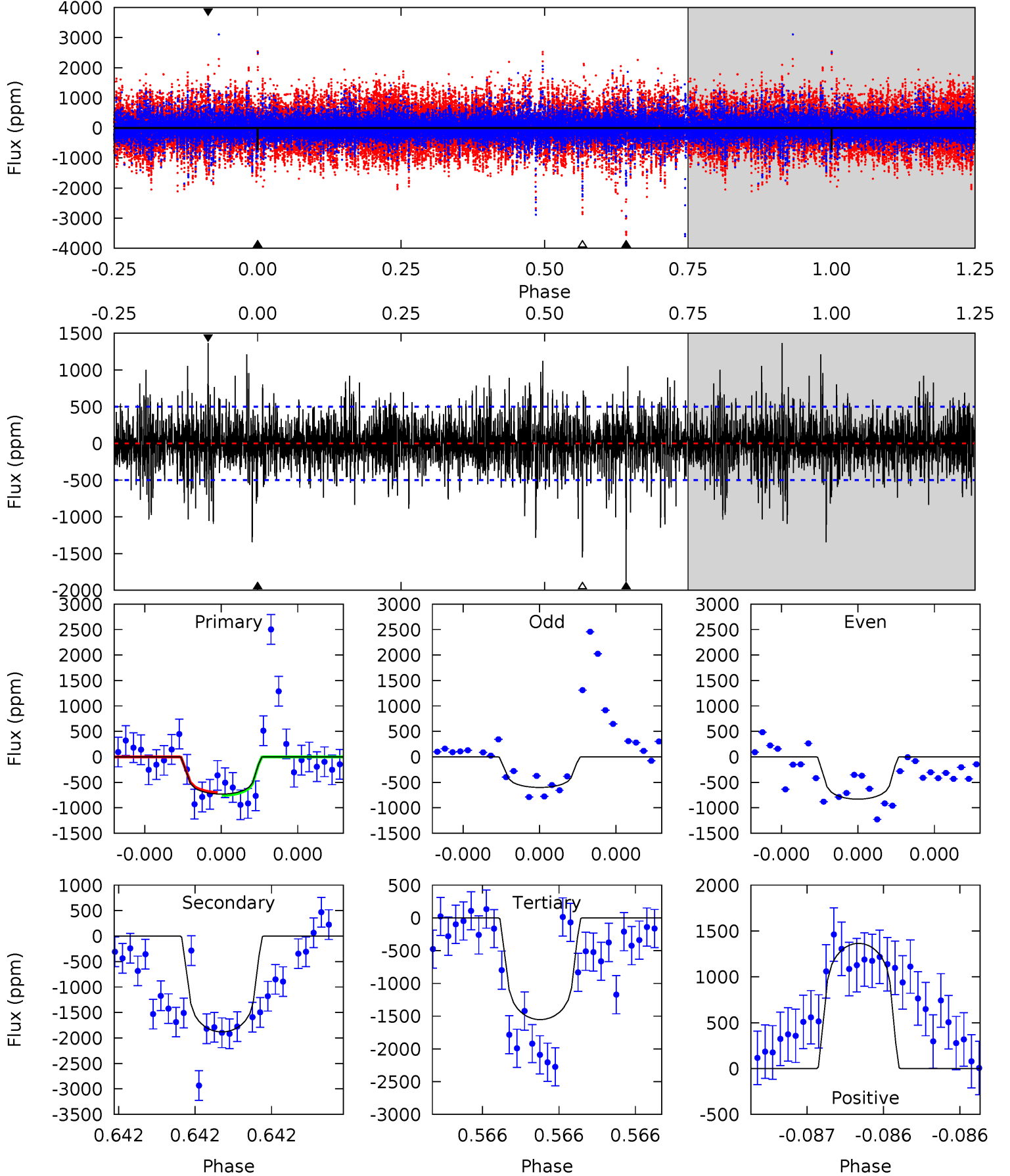
TCE 003119250-02 P=448.503020 Days $T_0=511.584996$ (BKJD)



DV Model-Shift Uniqueness Test

003119250-02, P = 448.502126 Days, E = 63.084144 Days

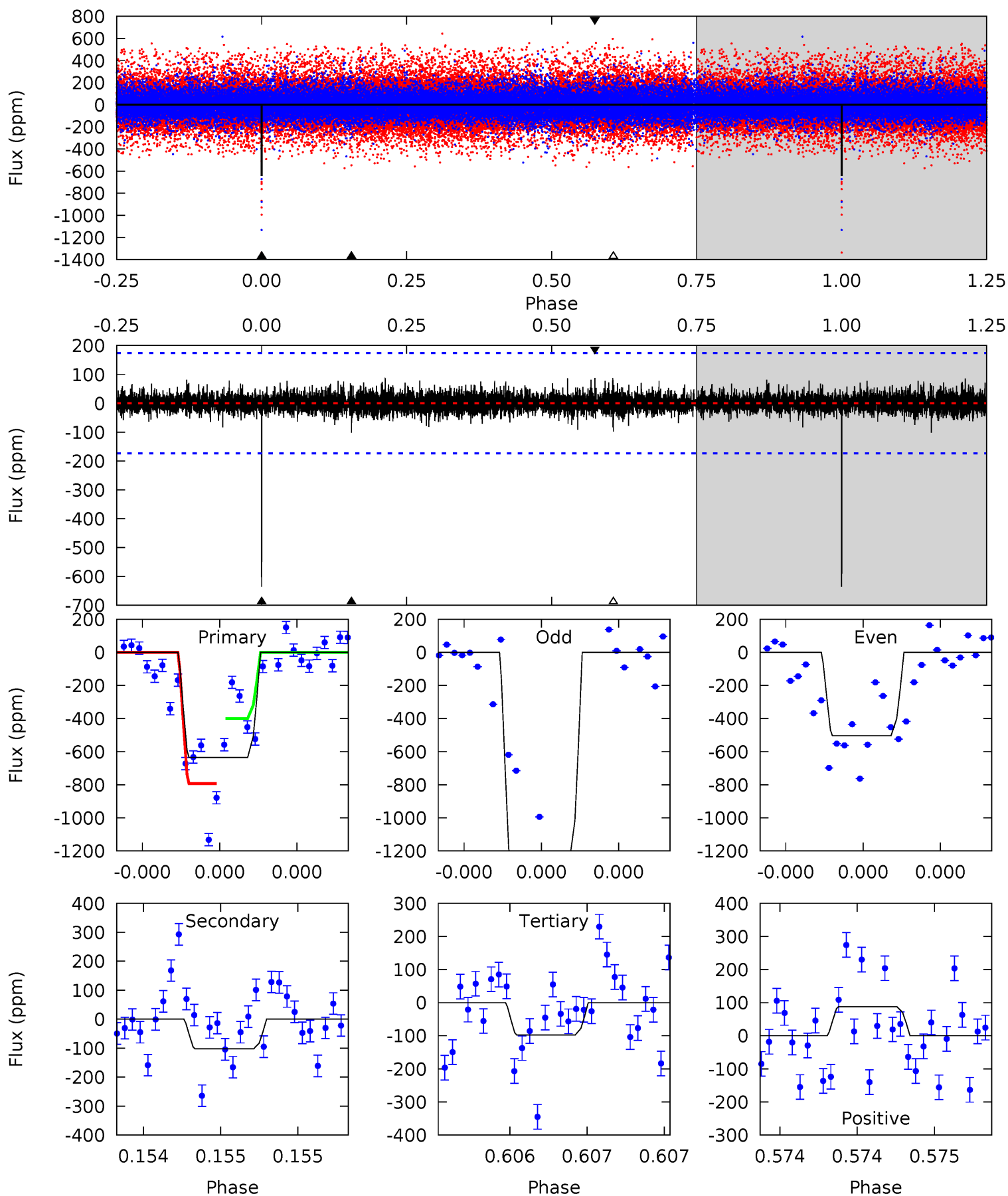
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.20	21.1	17.4	15.3	5.62	3.55	2.89	-9.22	-7.11	3.68	5.78	1.09	1.26	0.42	0.32



Alt Model-Shift Uniqueness Test

003119250-02, P = 448.503020 Days, E = 63.081976 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.6	3.32	3.16	2.83	5.62	3.55	0.61	17.4	17.7	0.16	0.49	13.4	1.09	0.12	6.04



Stellar Parameters For KIC 003119250

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5522^{+165}_{-148}	$4.548^{+0.093}_{-0.085}$	$-0.720^{+0.300}_{-0.300}$	$0.738^{+0.098}_{-0.081}$	$0.703^{+0.087}_{-0.035}$	$2.458^{+0.894}_{-0.655}$
	+3%/-3%	+2%/-2%	+42%/-42%	+13%/-11%	+12%/-5%	+36%/-27%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003119250-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1881 ± 89	$3.75^{+3.72}_{-2.56}$	290^{+13}_{-12}	5477^{+5269}_{-1389}	$79522^{+723916}_{-60617}$
Alt.	-102 ± 31	$4.12^{+3.41}_{-2.73}$	290^{+12}_{-13}	3096^{+1465}_{-503}	3579^{+32585}_{-2661}

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

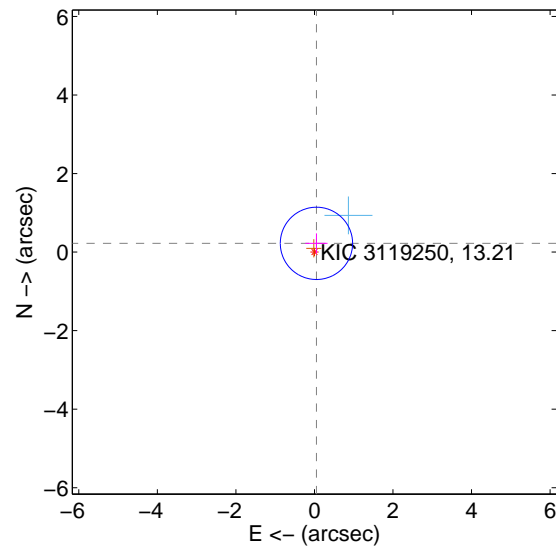
Supplemental centroid analysis for 003119250-02. Kepler magnitude: 13.21. Transit SNR 5.74

There are 2 quarters with good PRF difference image offsets

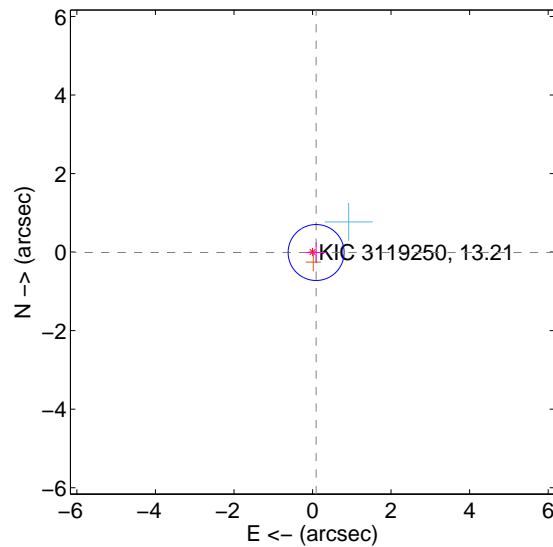
The direct PRF centroid is offset from the target star catalog position by about 0.35 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.229 ± 0.307	0.75	-0.051 ± 0.283	0.223 ± 0.253
PRF-fit source offset from KIC position	0.092 ± 0.238	0.39	-0.091 ± 0.267	-0.011 ± 0.260
photometric centroid source offset	1.93 ± 1.07	1.81	-0.07 ± 0.82	-1.93 ± 1.07

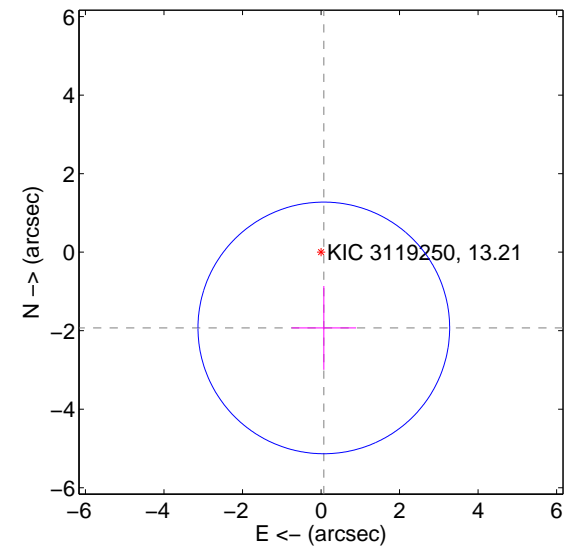
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

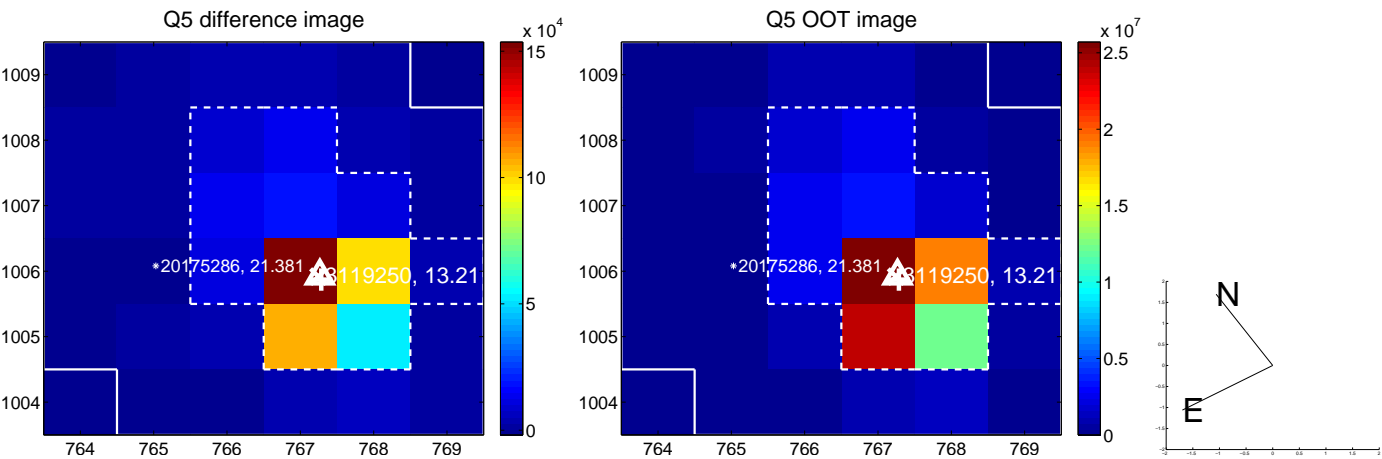


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

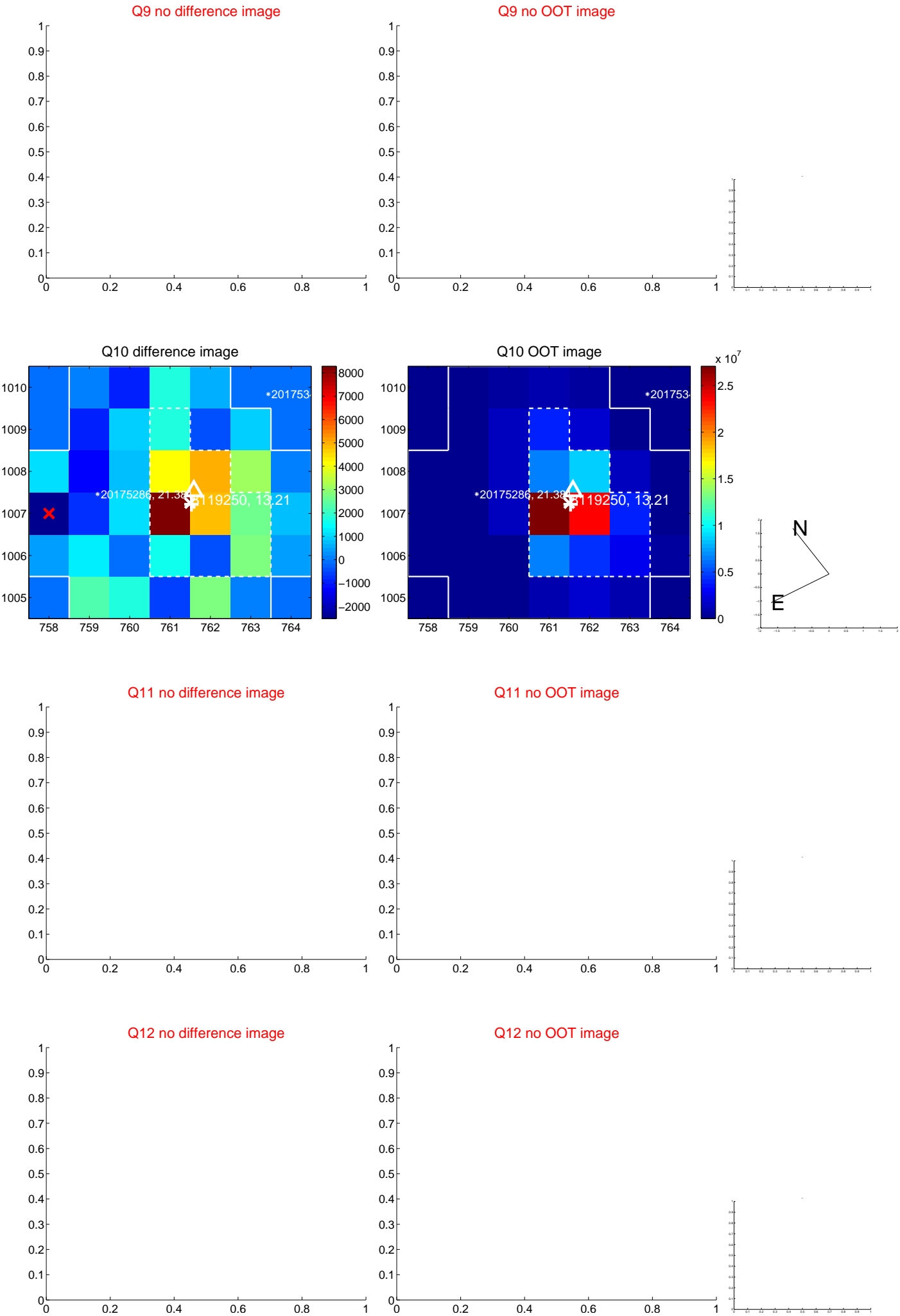
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



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

Q13 no difference image



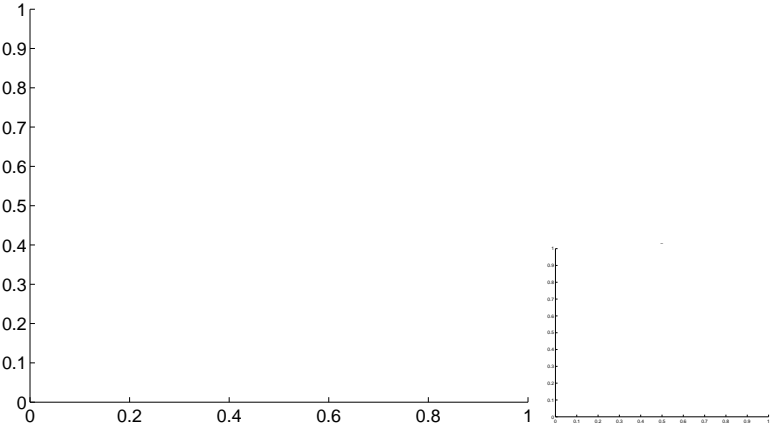
Q13 no OOT image



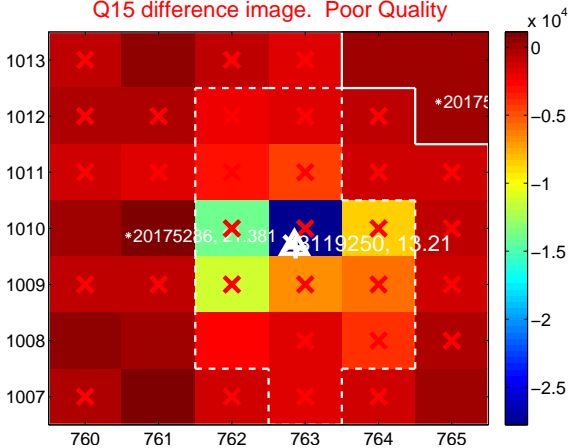
Q14 no difference image



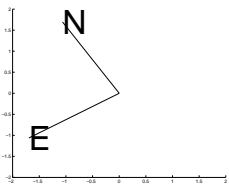
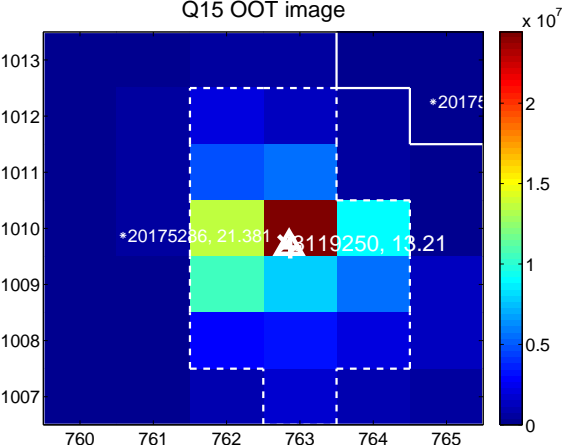
Q14 no OOT image



Q15 difference image. Poor Quality



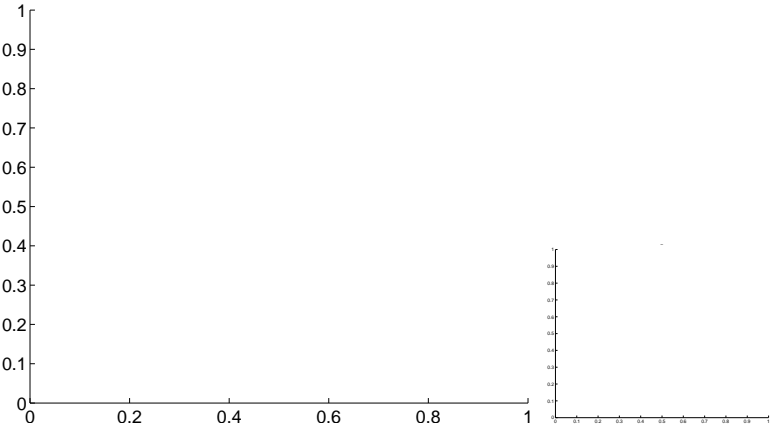
Q15 OOT image



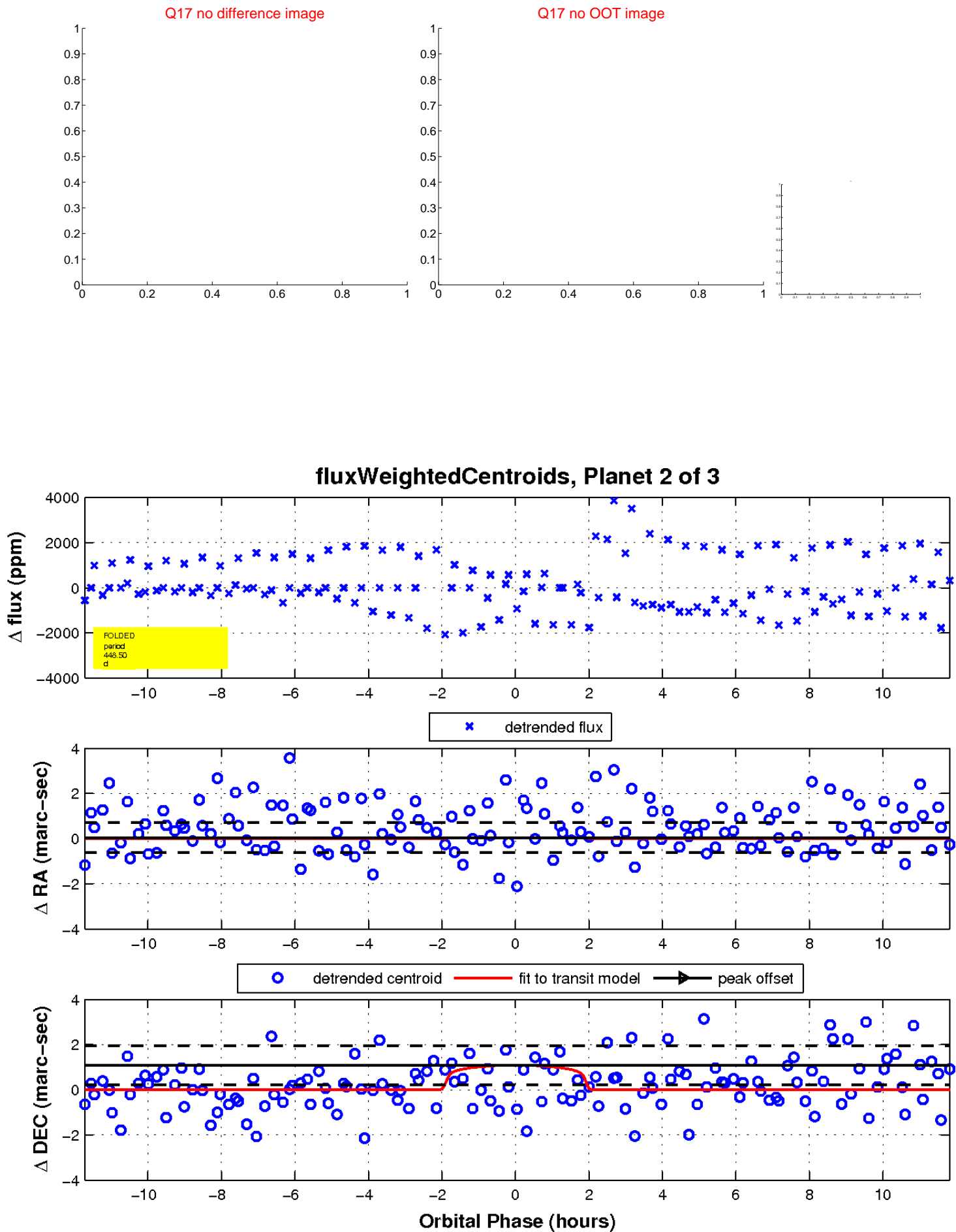
Q16 no difference image



Q16 no OOT image

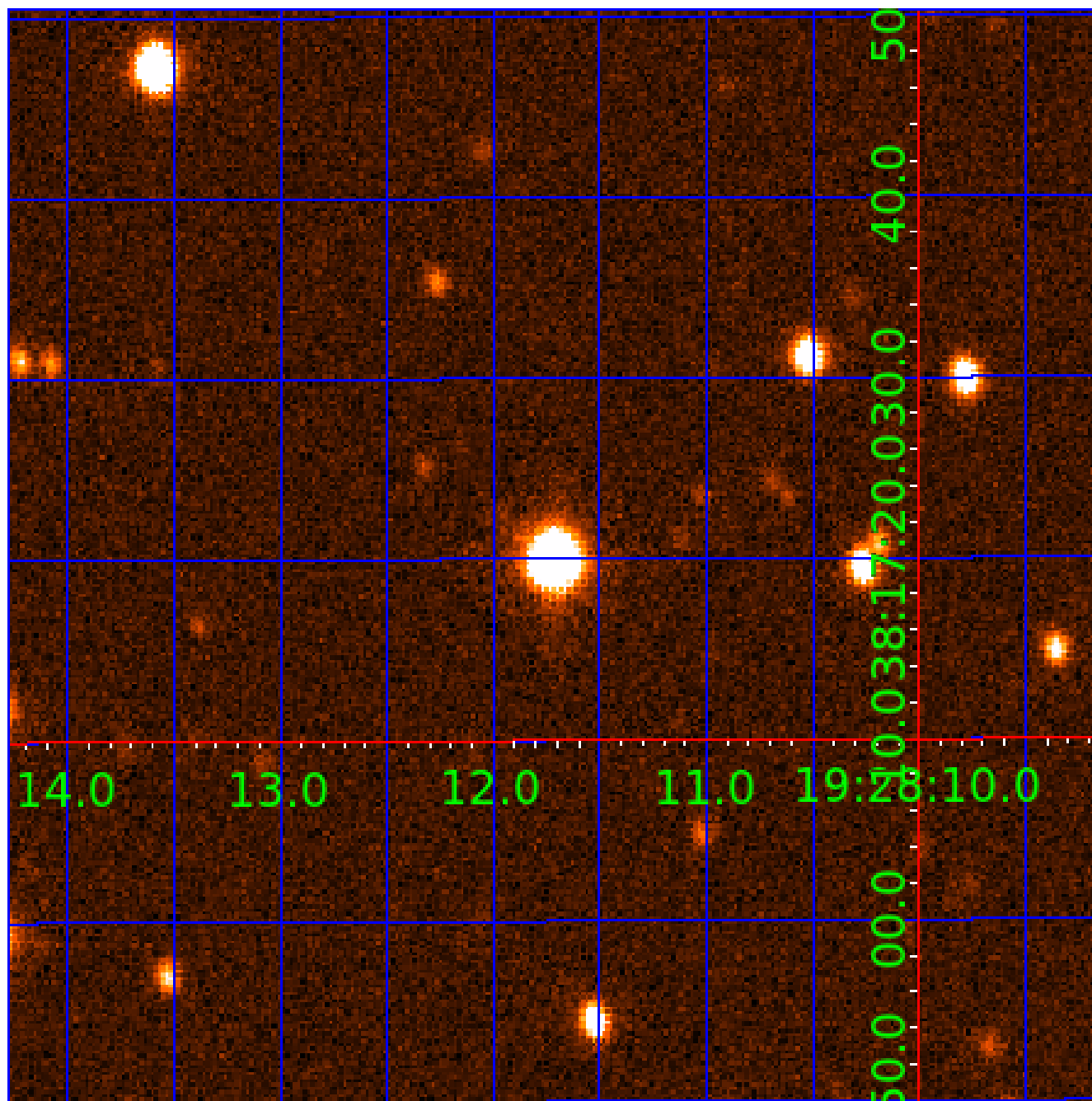


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003119250

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})
003119250-01	OBS	No	349.533364	221.602858	434.1	2.421	14.2	4.0	0.74	5522	1.59	0.61
003119250-02	OBS	No	448.502126	511.586270	694.7	3.953	14.4	5.7	0.74	5522	1.99	0.44
003119250-03	OBS	No	366.294483	141.715562	860.1	2.721	14.7	7.2	0.74	5522	2.31	0.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003119250-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003119250-02	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
003119250-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—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.

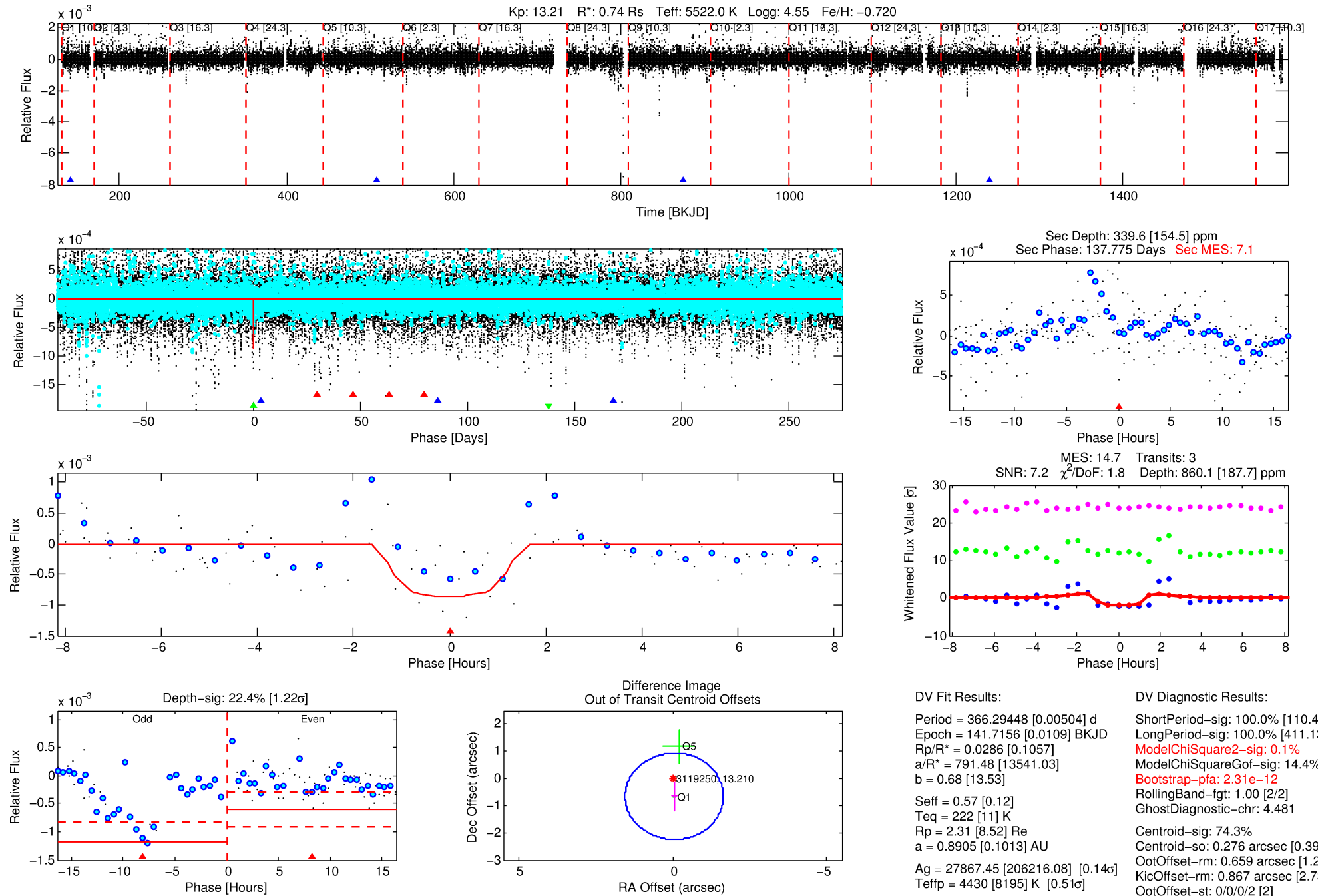
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003119250-03

No Significant Match Found

DV One-Page Summary

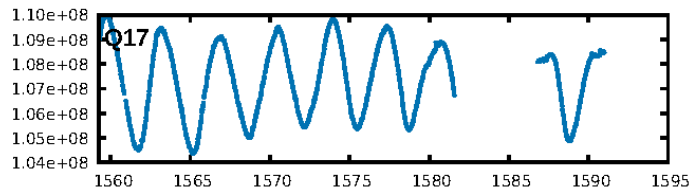
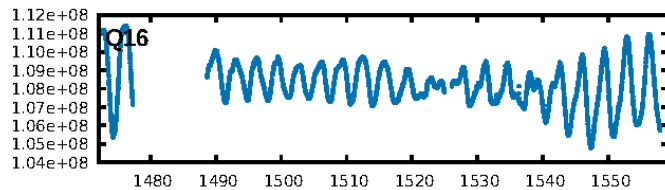
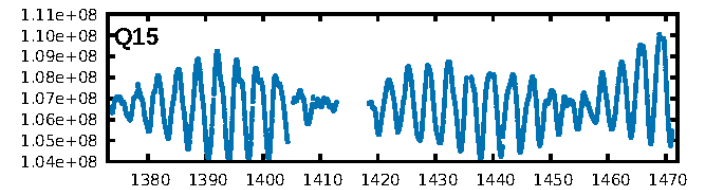
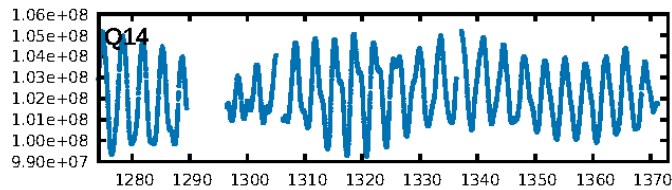
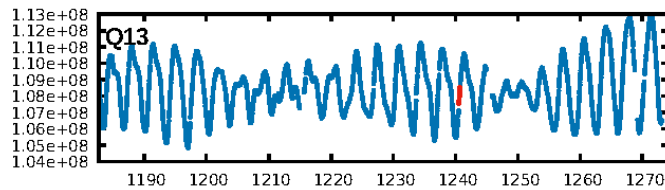
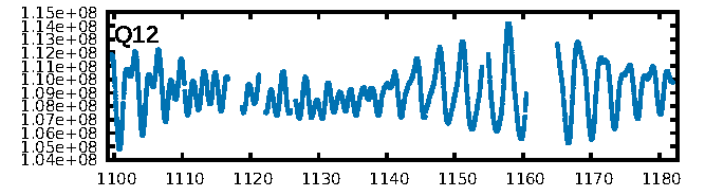
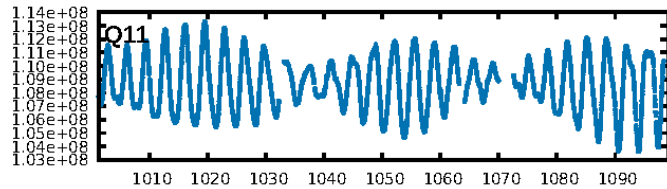
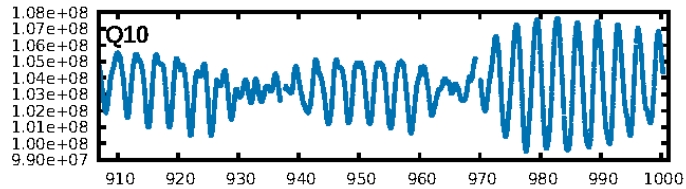
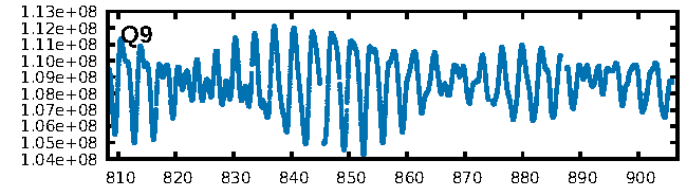
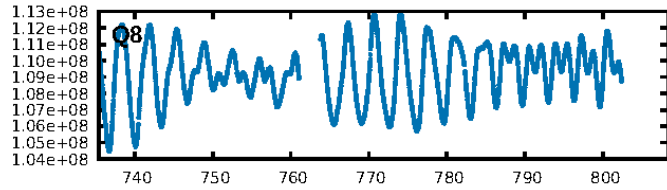
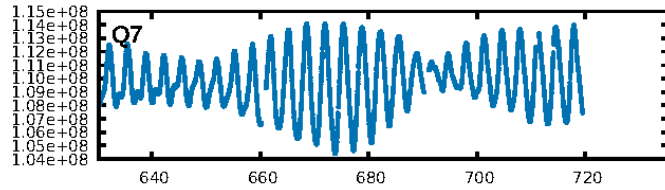
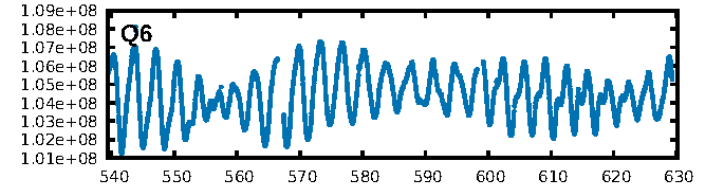
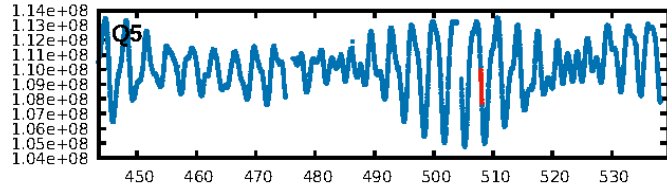
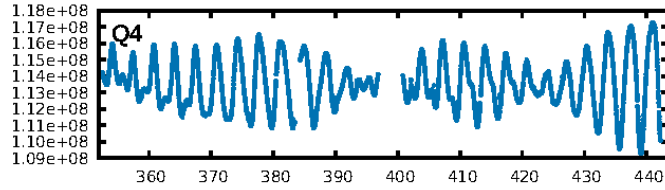
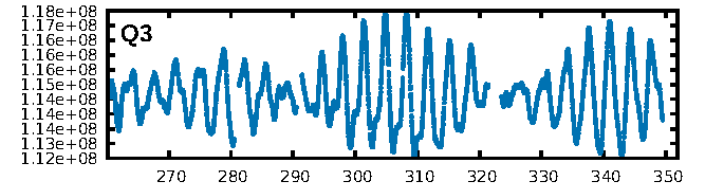
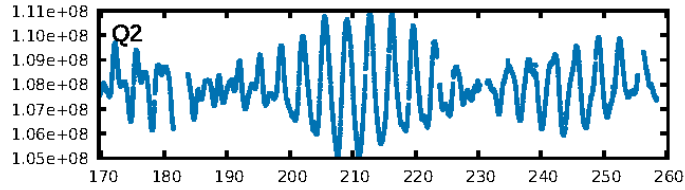
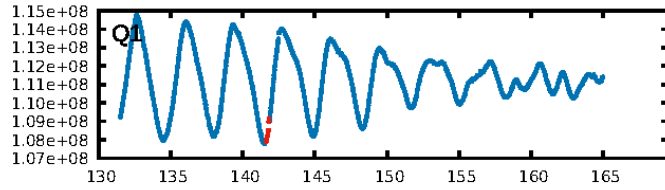
KIC: 3119250 Candidate: 3 of 3 Period: 366.294 d



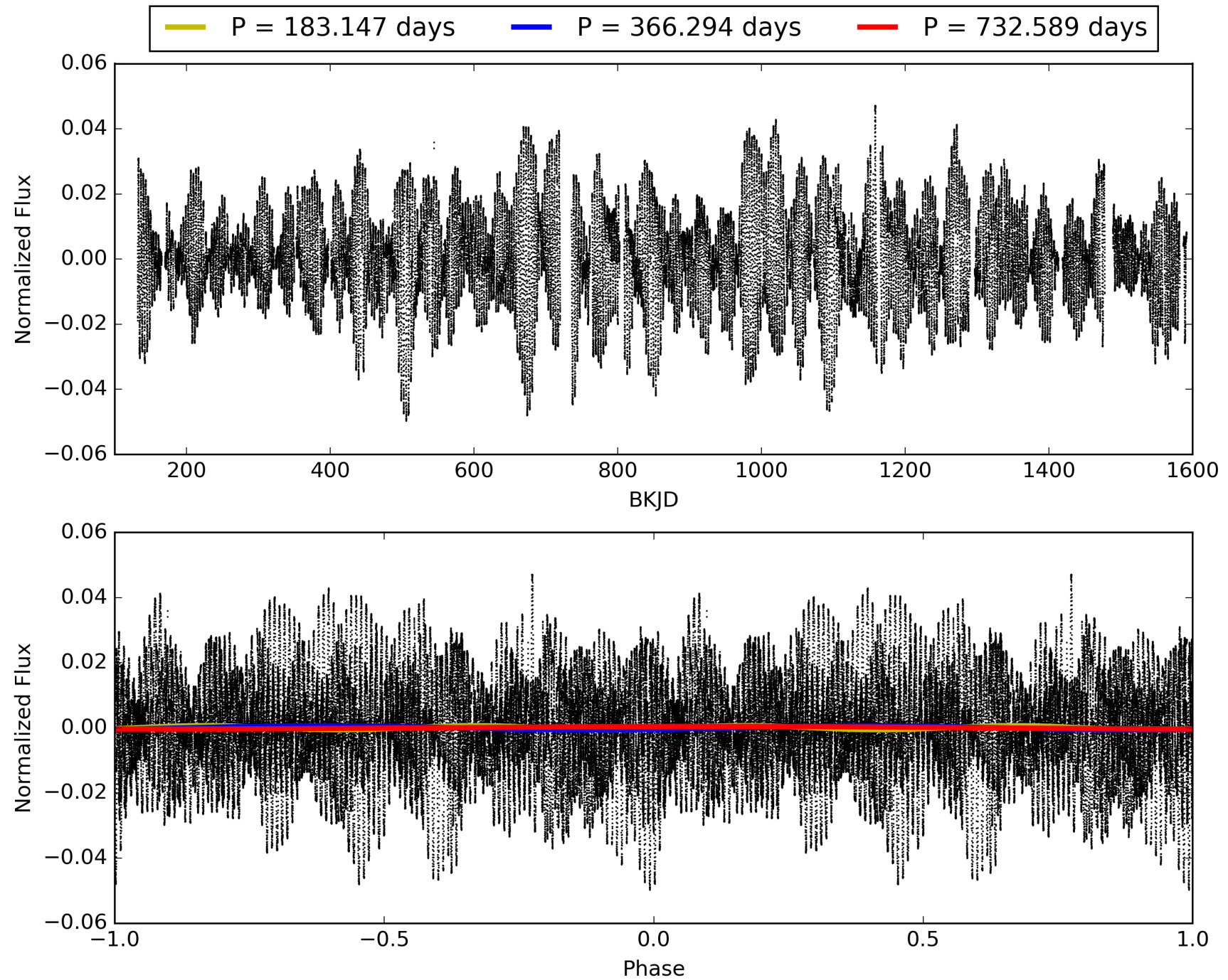
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 02:11:58 Z

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

TCE 003119250-03, PDC Light Curves

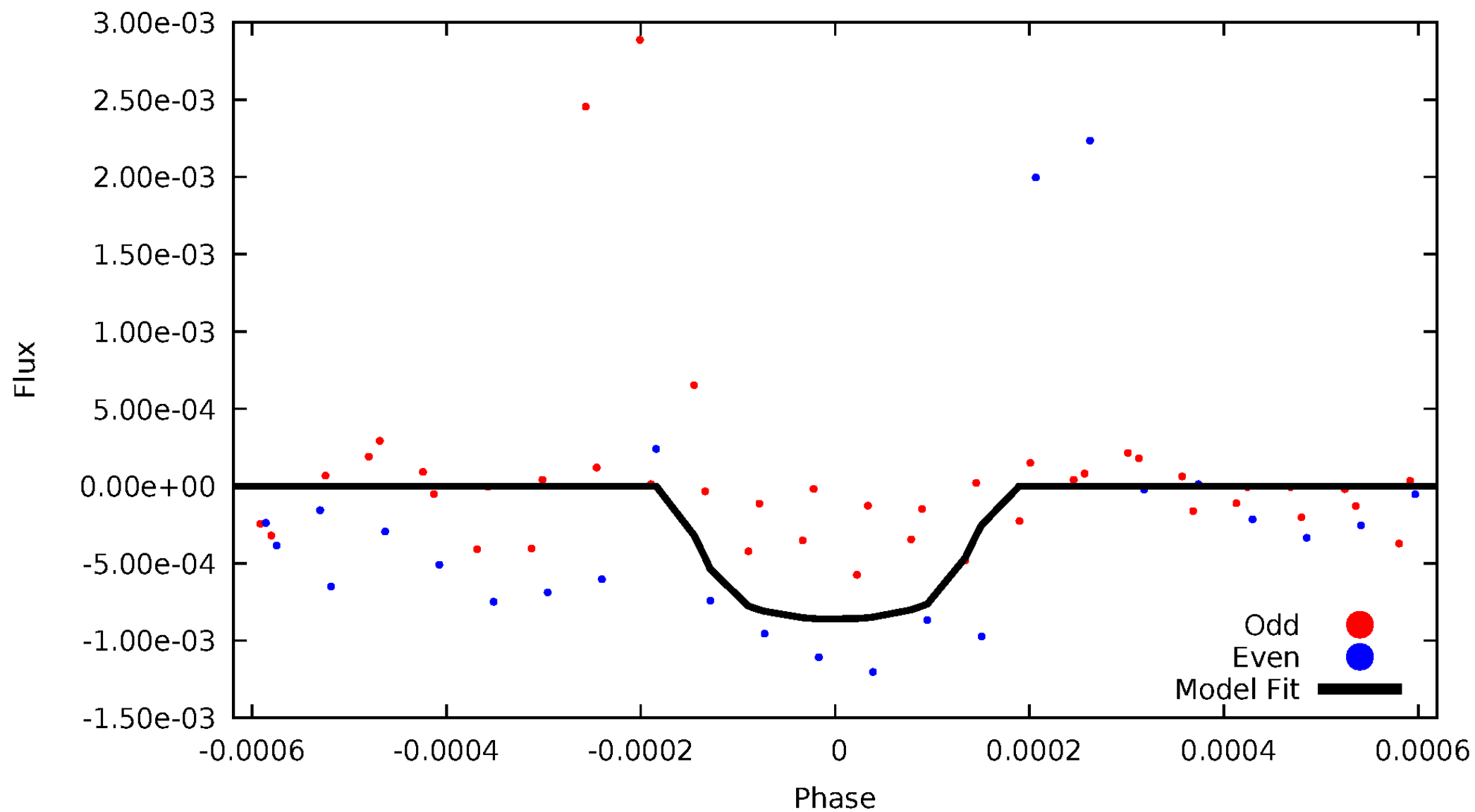


TCE 003119250-03



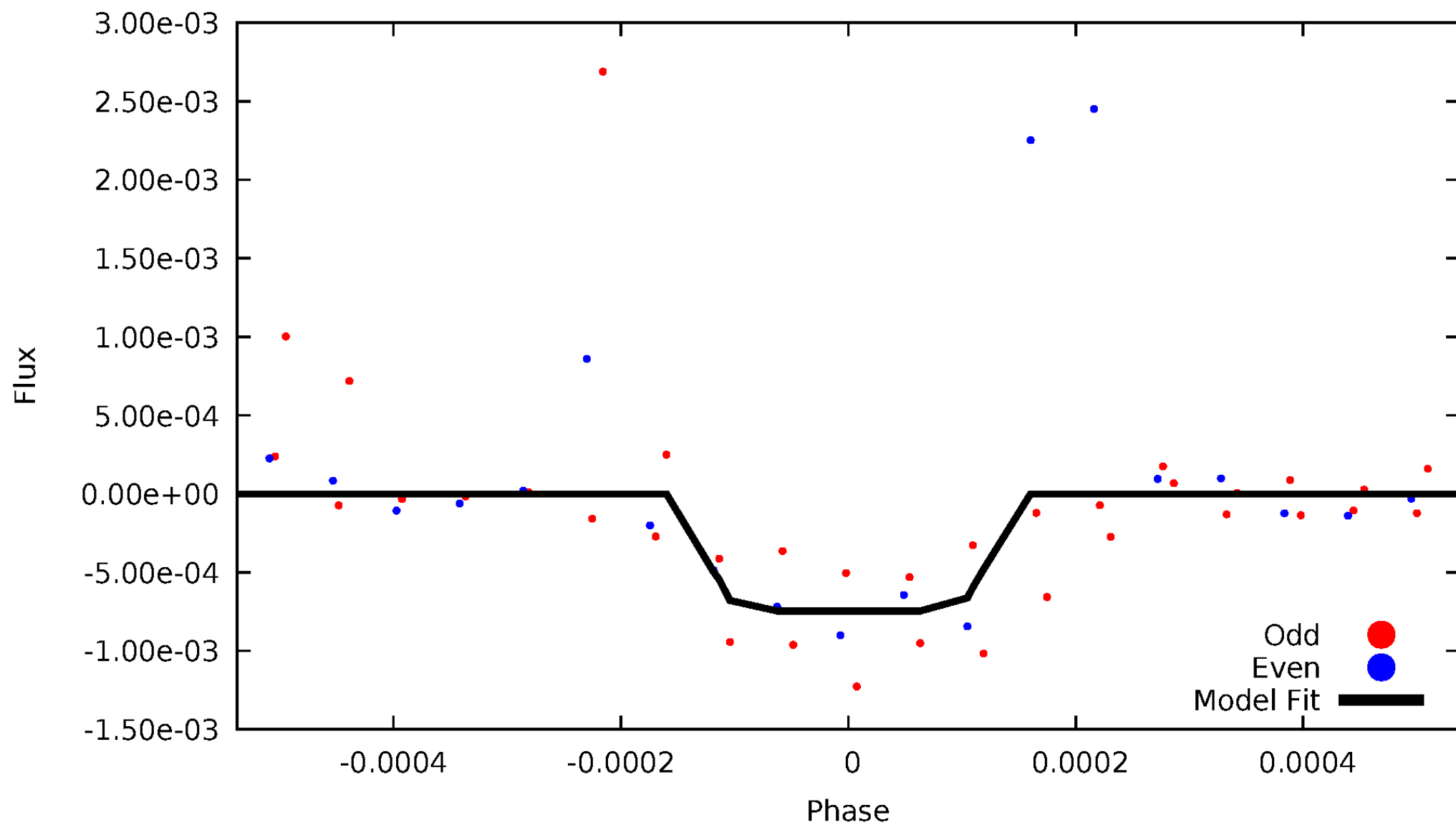
DV Odd/Even

TCE 003119250-03



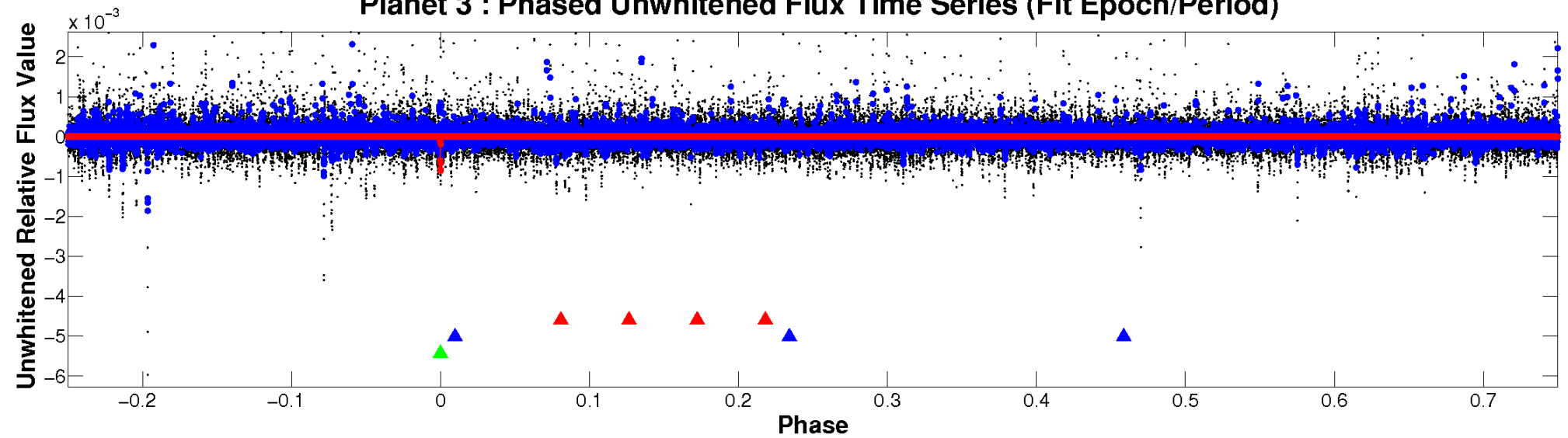
ALT Odd/Even

TCE 003119250-03

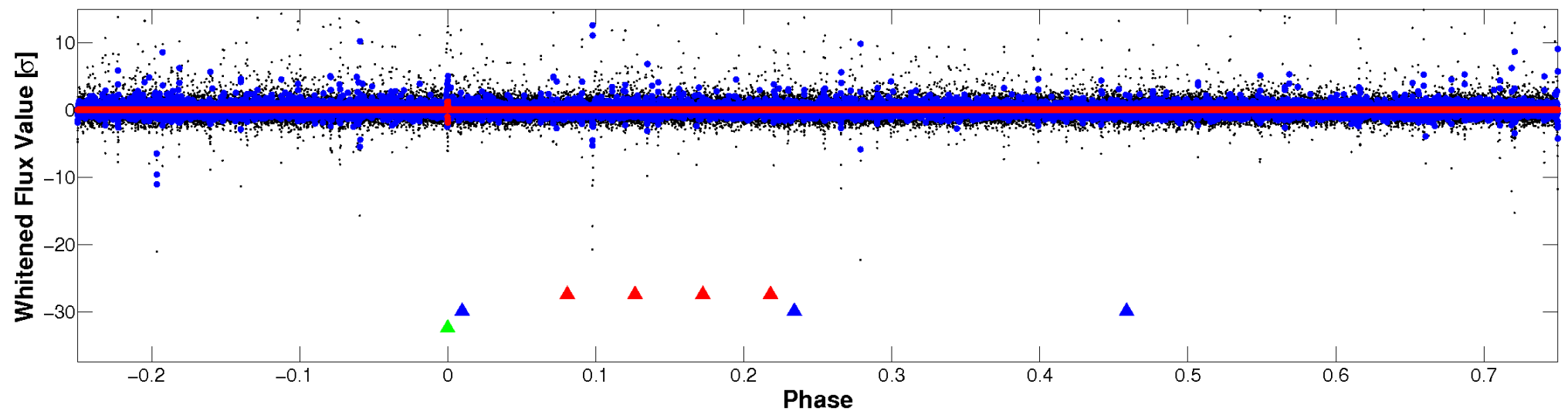


Non-Whitened Vs. Whitened Light Curve

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

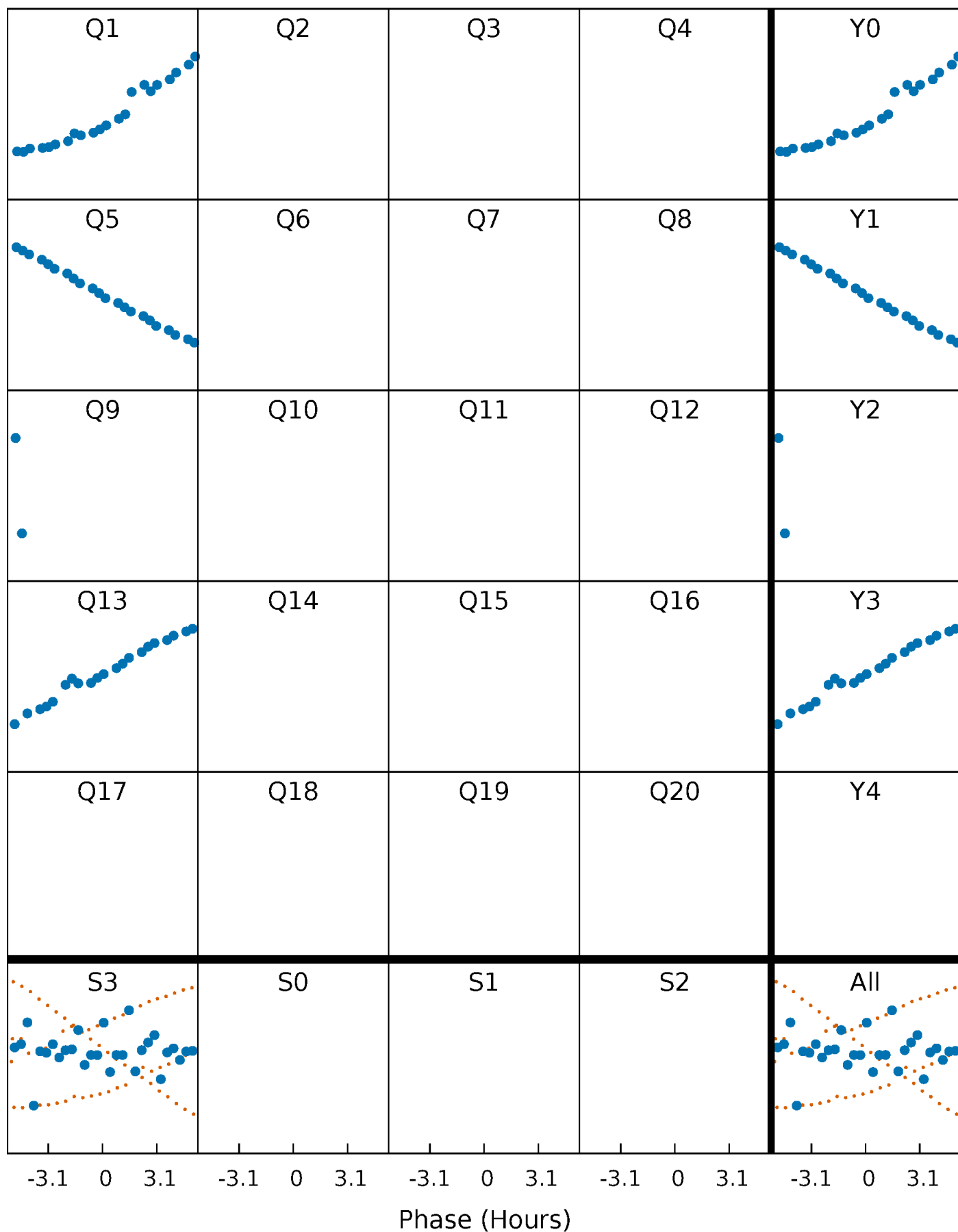


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



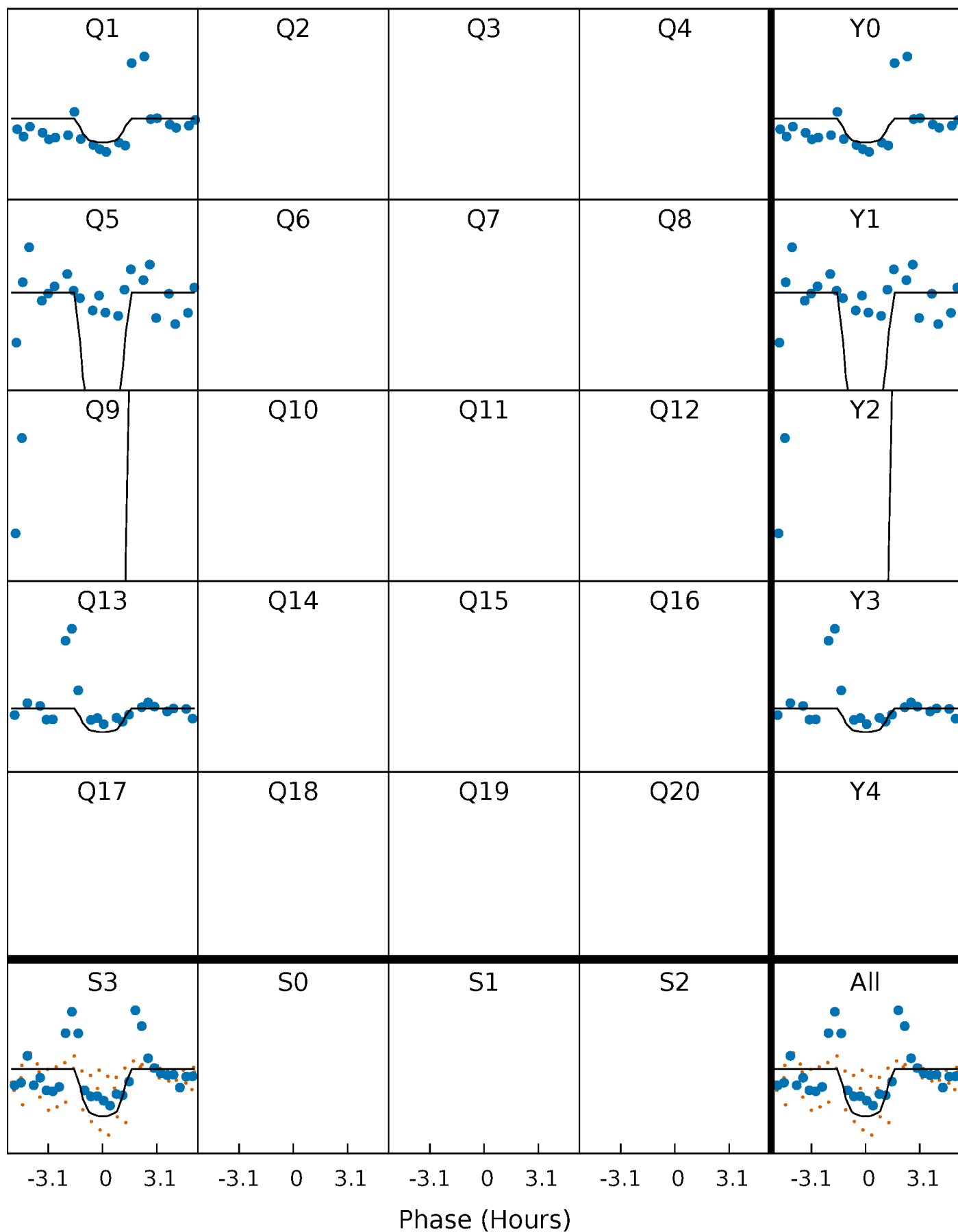
PDC Quarter-Phased Transit Curves

TCE 003119250-03 $P=366.294483$ Days $T_0=141.715562$ (BKJD)



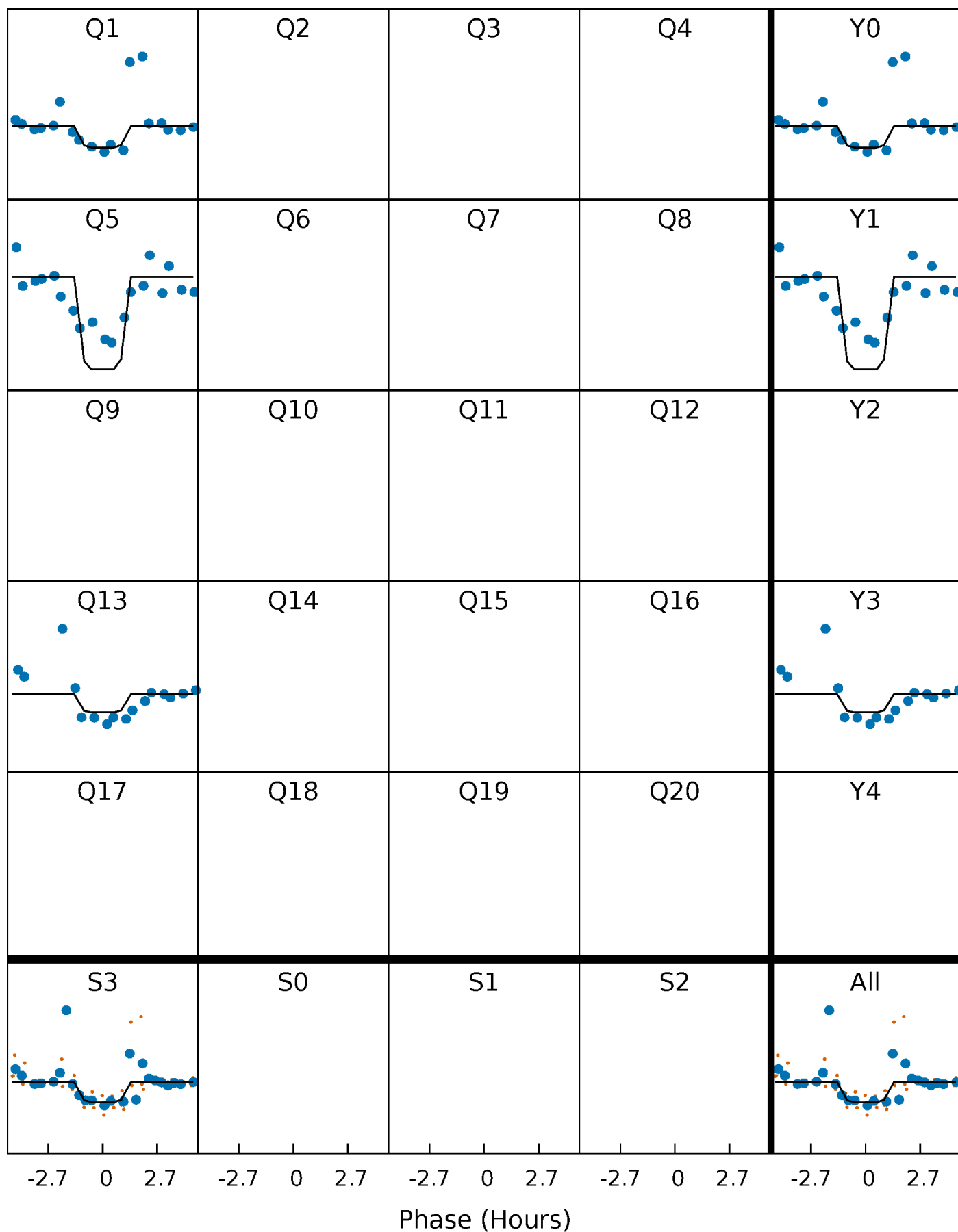
DV Quarter-Phased Transit Curves

TCE 003119250-03 $P=366.294483$ Days $T_0=141.715562$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

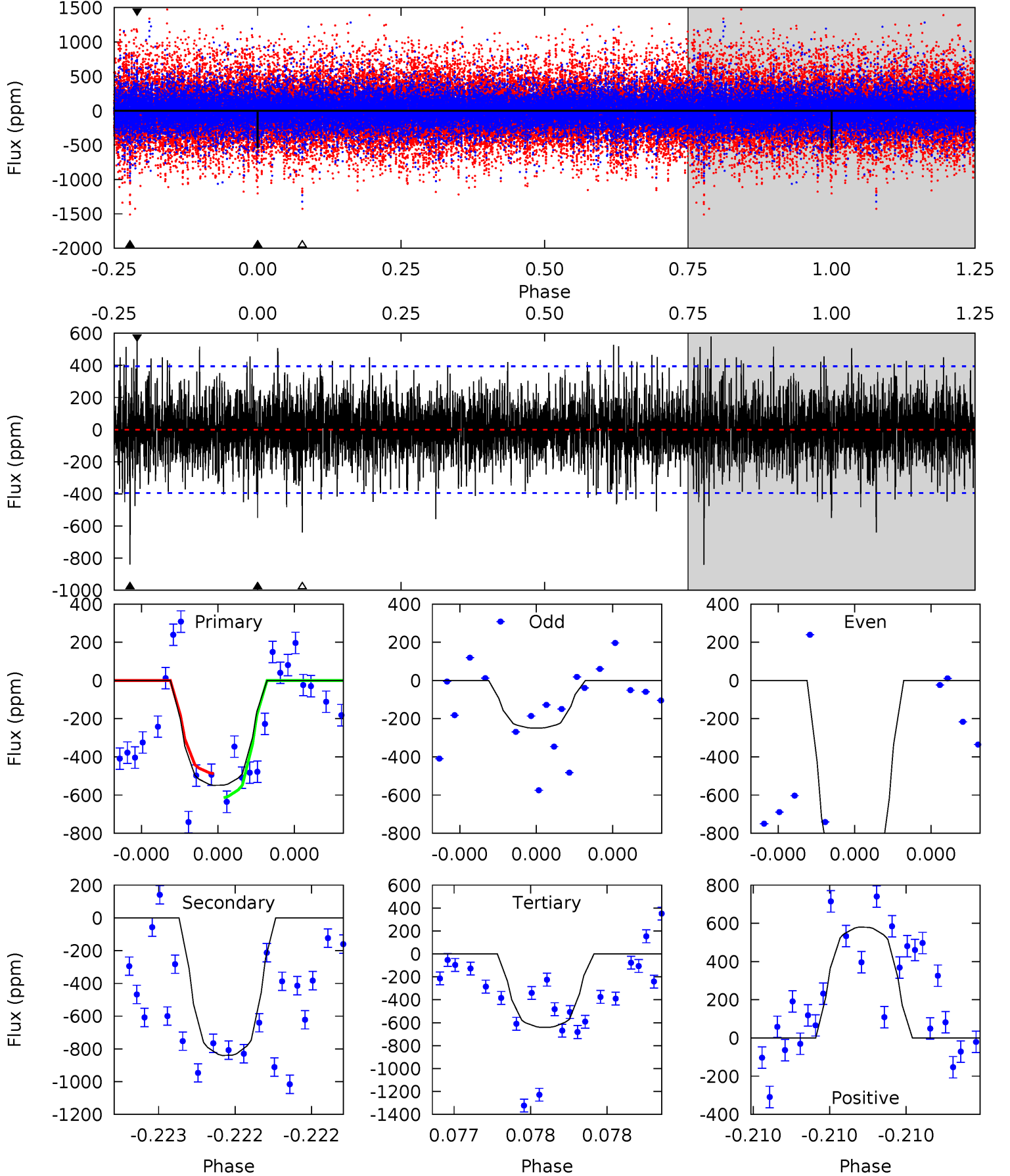
TCE 003119250-03 P=366.290687 Days $T_0=141.732395$ (BKJD)



DV Model-Shift Uniqueness Test

003119250-03, P = 366.294483 Days, E = 141.715562 Days

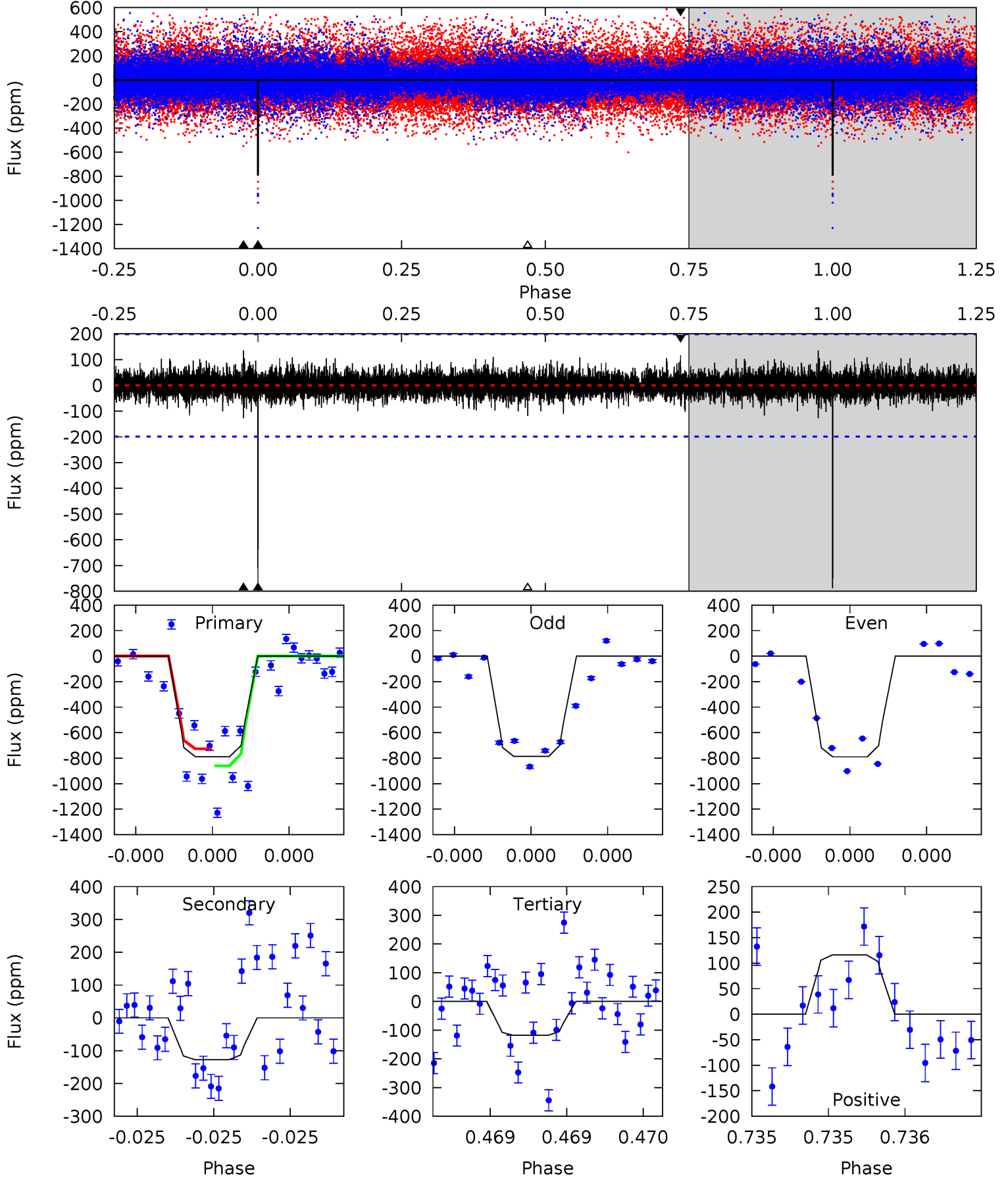
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.88	12.1	9.19	8.33	5.66	3.62	1.86	-1.31	-0.44	2.87	3.74	5.87	1.36	0.41	0.91



Alt Model-Shift Uniqueness Test

003119250-03, P = 366.290687 Days, E = 141.732395 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.5	3.63	3.37	3.31	5.67	3.63	0.74	19.1	19.2	0.26	0.32	0.04	1.00	0.15	1.92



Stellar Parameters For KIC 003119250

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5522^{+165}_{-148}	$4.548^{+0.093}_{-0.085}$	$-0.720^{+0.300}_{-0.300}$	$0.738^{+0.098}_{-0.081}$	$0.703^{+0.087}_{-0.035}$	$2.458^{+0.894}_{-0.655}$
	+3%/-3%	+2%/-2%	+42%/-42%	+13%/-11%	+12%/-5%	+36%/-27%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003119250-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-840 ± 70	$6.41^{+7.30}_{-4.38}$	309^{+15}_{-13}	3748^{+2135}_{-772}	9269^{+82577}_{-7259}
Alt.	-127 ± 35	$6.73^{+7.00}_{-4.59}$	310^{+13}_{-15}	2776^{+1092}_{-461}	1205^{+9899}_{-926}

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

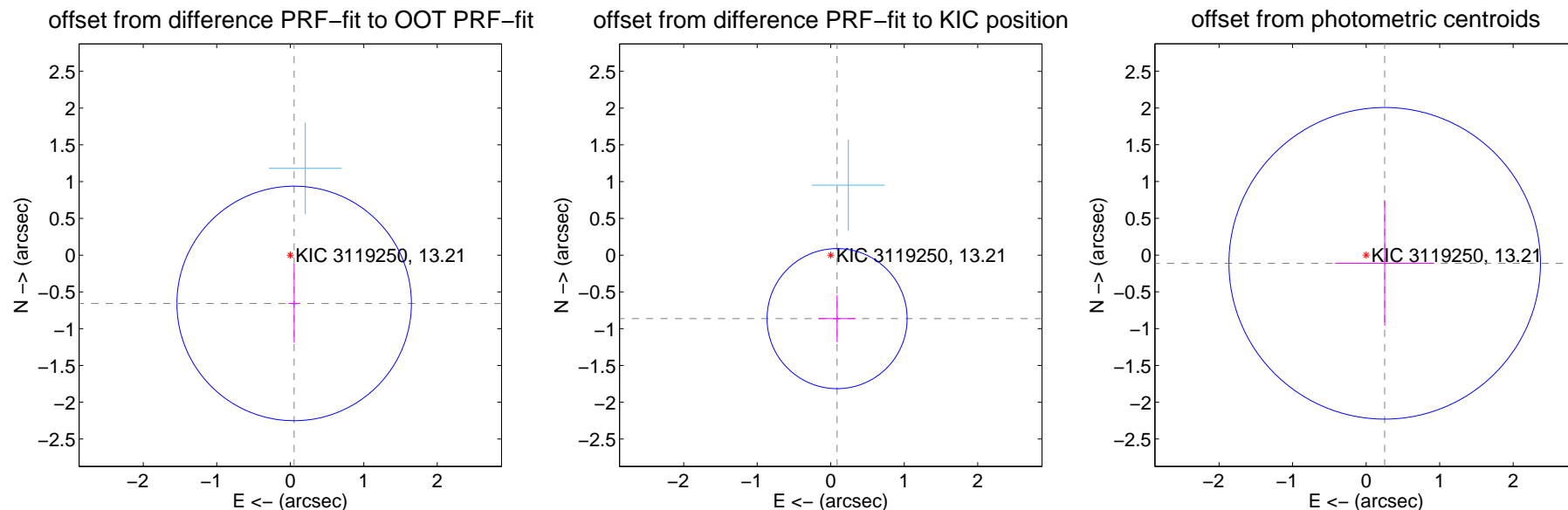
DV Centroid Data

Supplemental centroid analysis for 003119250-03. Kepler magnitude: 13.21. Transit SNR 7.19

There are 2 quarters with good PRF difference image offsets

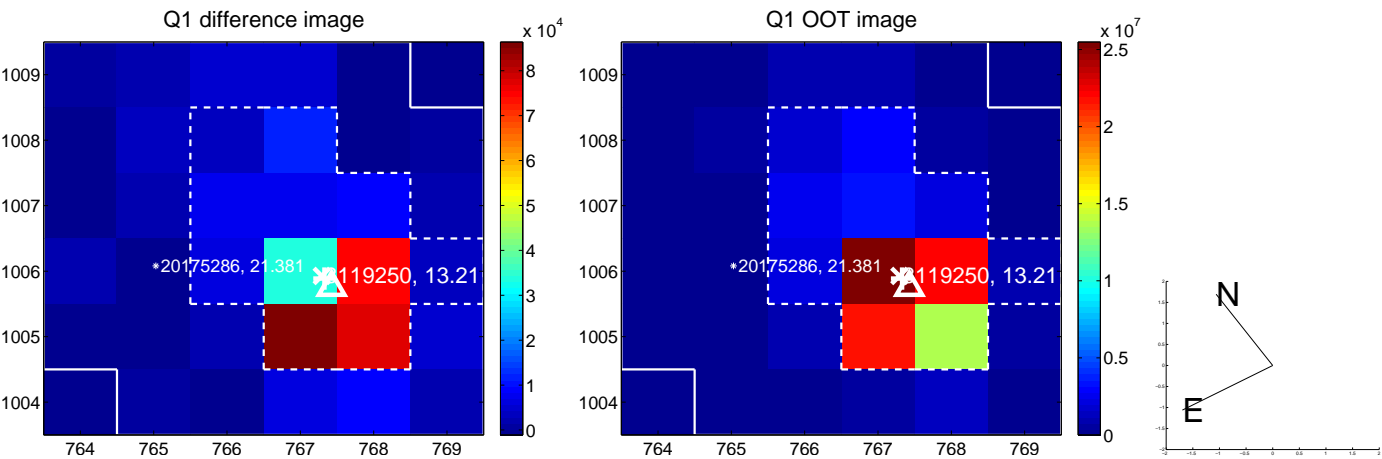
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.659 ± 0.532	1.24	-0.053 ± 0.080	-0.657 ± 0.537
PRF-fit source offset from KIC position	0.867 ± 0.317	2.73	-0.087 ± 0.257	-0.863 ± 0.318
photometric centroid source offset	0.28 ± 0.71	0.39	-0.25 ± 0.67	-0.11 ± 0.85

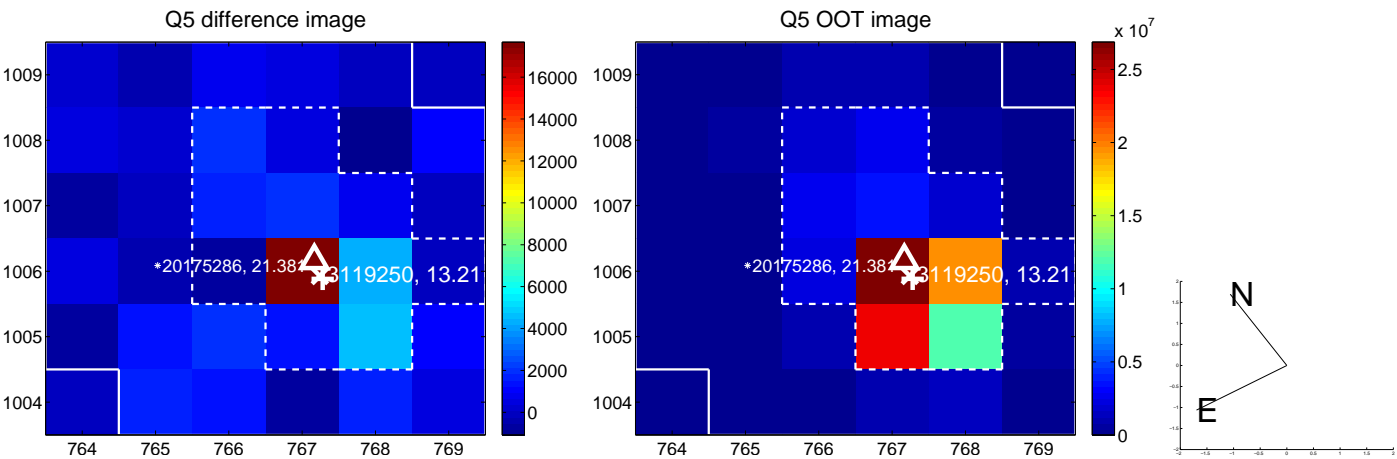


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



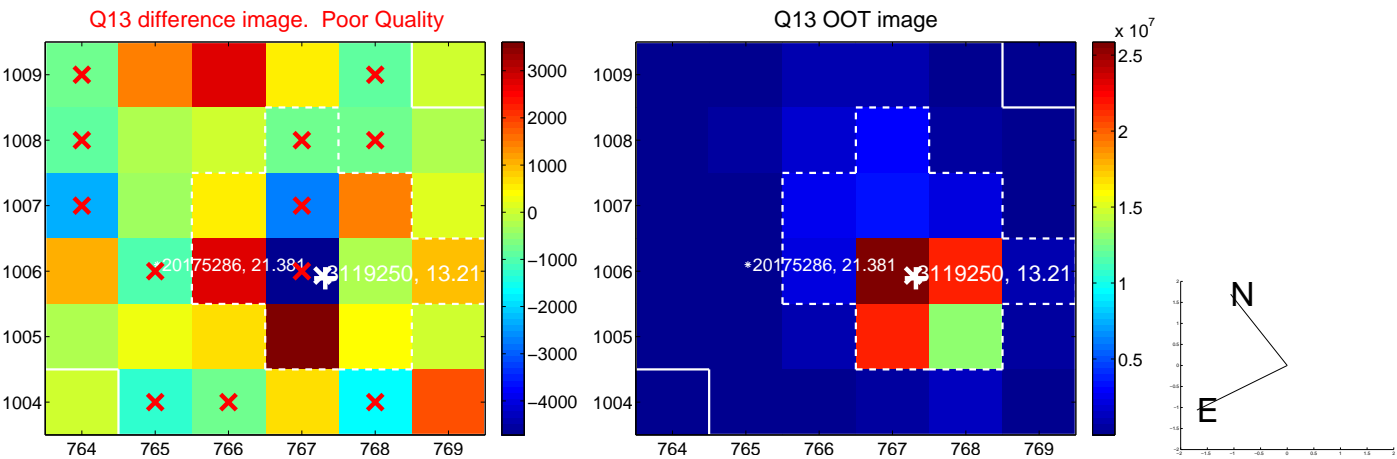
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



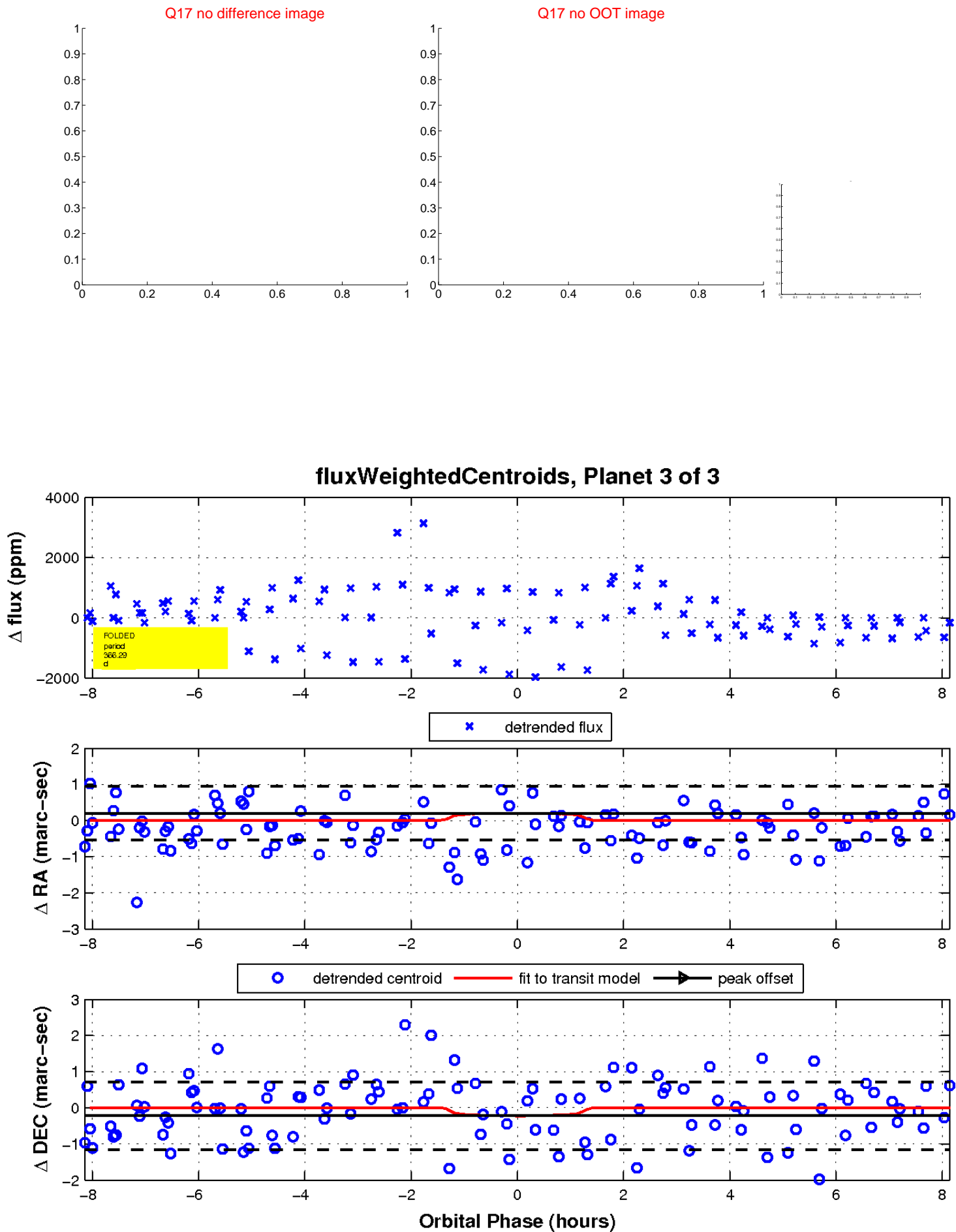
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

