

KIC 007186446

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})
007186446-01	OBS	No	417.642097	299.373033	486.5	6.624	9.8	5.8	0.64	4374	1.40	0.15
007186446-02	OBS	No	417.645134	525.888920	579.2	4.761	8.8	7.4	0.64	4374	1.77	0.15
007186446-03	OBS	No	505.099502	510.391897	677.6	6.170	13.7	7.0	0.64	4374	1.84	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007186446-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007186446-02	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—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007186446-03	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.

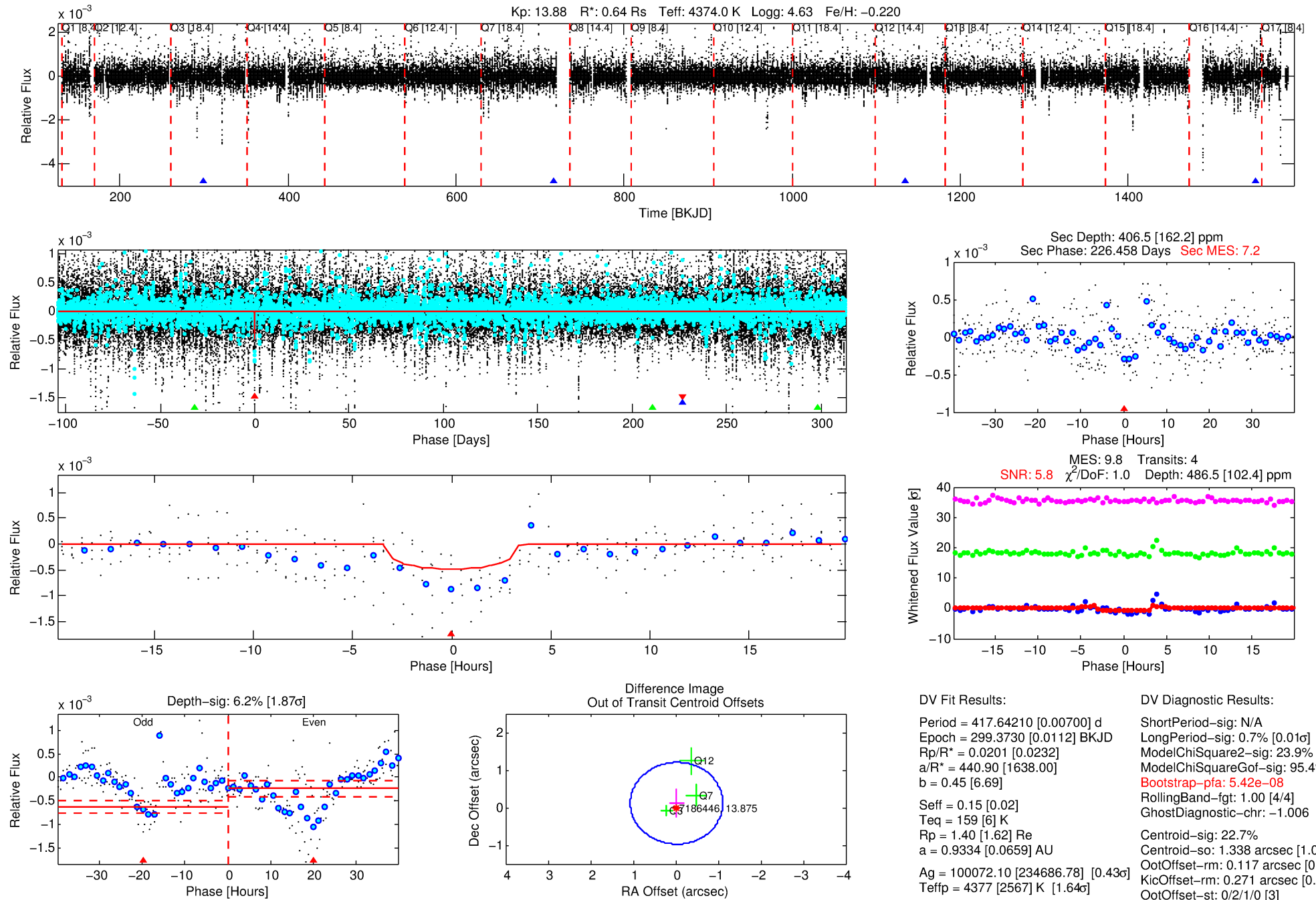
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007186446-01

No Significant Match Found

DV One-Page Summary

KIC: 7186446 Candidate: 1 of 3 Period: 417.642 d



DV Fit Results:

Period = 417.64210 [0.00700] d
Epoch = 299.3730 [0.0112] BKJD
Rp/R* = 0.0201 [0.0232]
a/R* = 440.90 [1638.00]
b = 0.45 [6.69]
Seff = 0.15 [0.02]
Teq = 159 [6] K
Rp = 1.40 [1.62] Re
a = 0.9334 [0.0659] AU
Ag = 100072.10 [234686.78] [0.43 σ]
Teffp = 4377 [2567] K [1.64 σ]

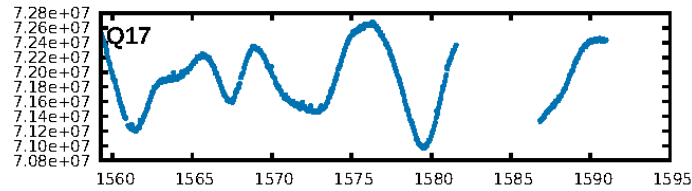
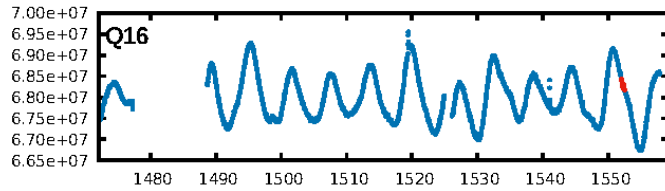
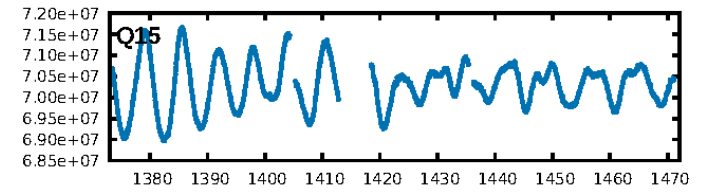
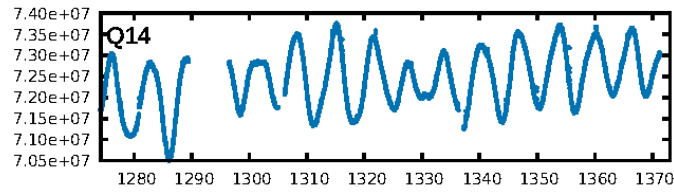
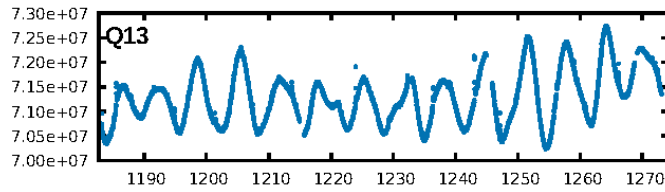
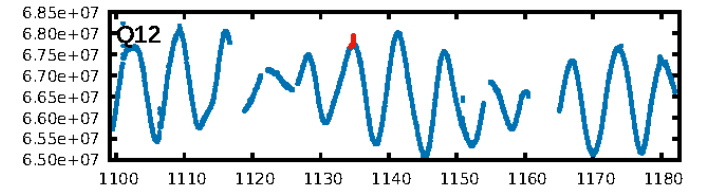
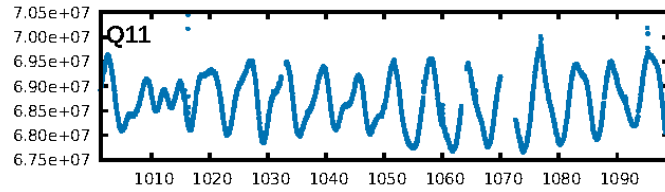
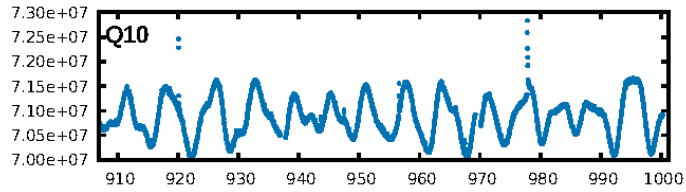
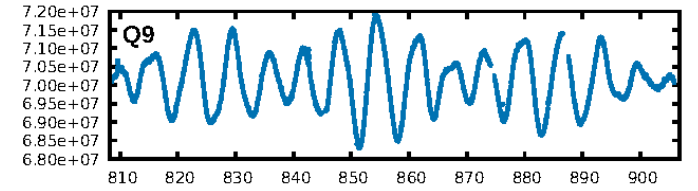
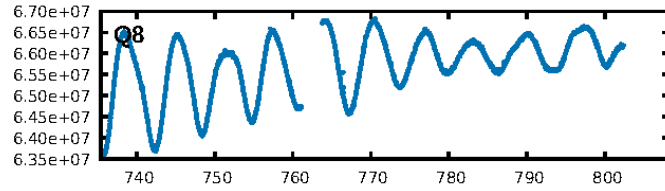
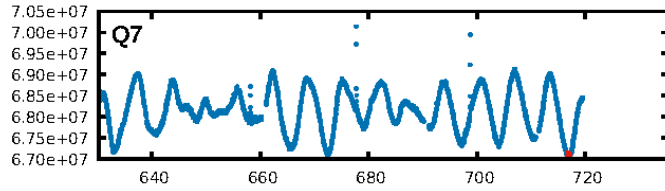
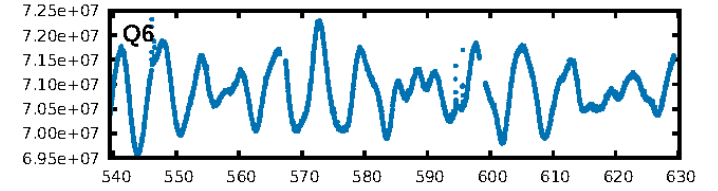
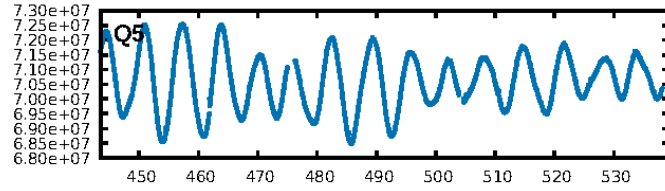
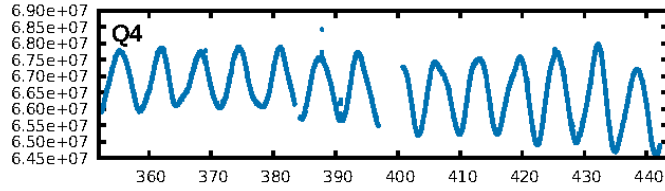
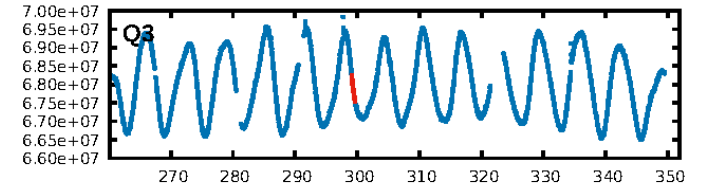
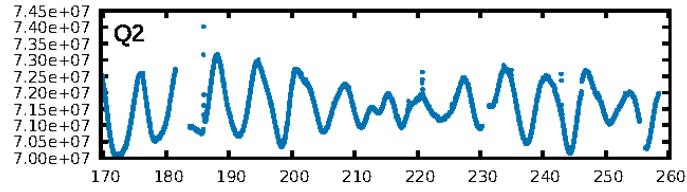
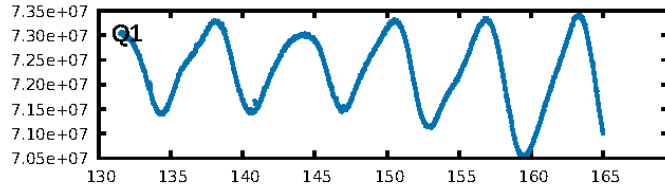
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.7% [0.01 σ]
ModelChiSquare2-sig: 23.9%
ModelChiSquareGof-sig: 95.4%
Bootstrap-pfa: 5.42e-08
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.006
Centroid-sig: 22.7%
Centroid-so: 1.338 arcsec [1.07 σ]
OotOffset-rm: 0.117 arcsec [0.32 σ]
KicOffset-rm: 0.271 arcsec [0.84 σ]
OotOffset-st: 0/2/1/0 [3]
KicOffset-st: 0/2/1/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [4/4]

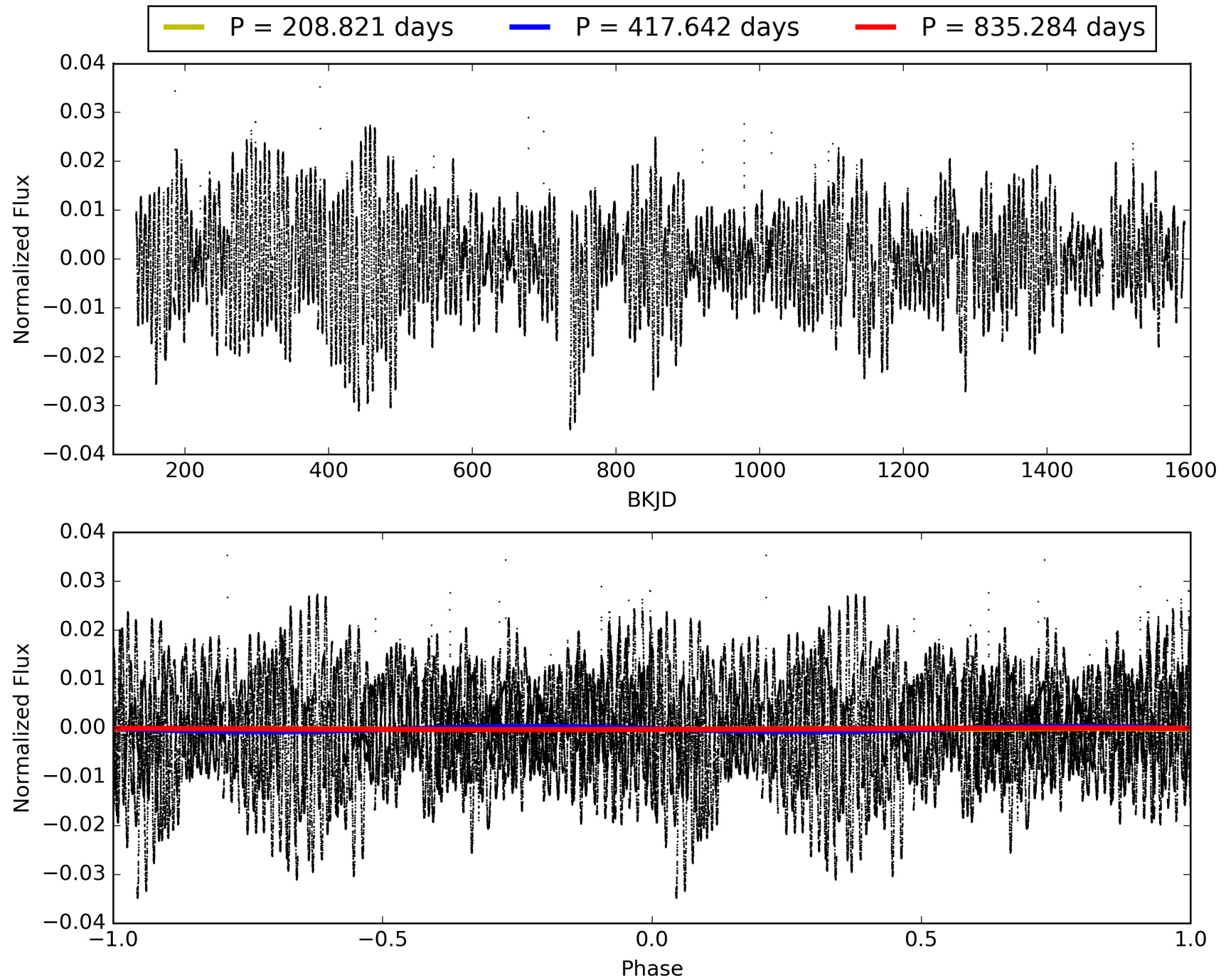
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007186446-01, PDC Light Curves

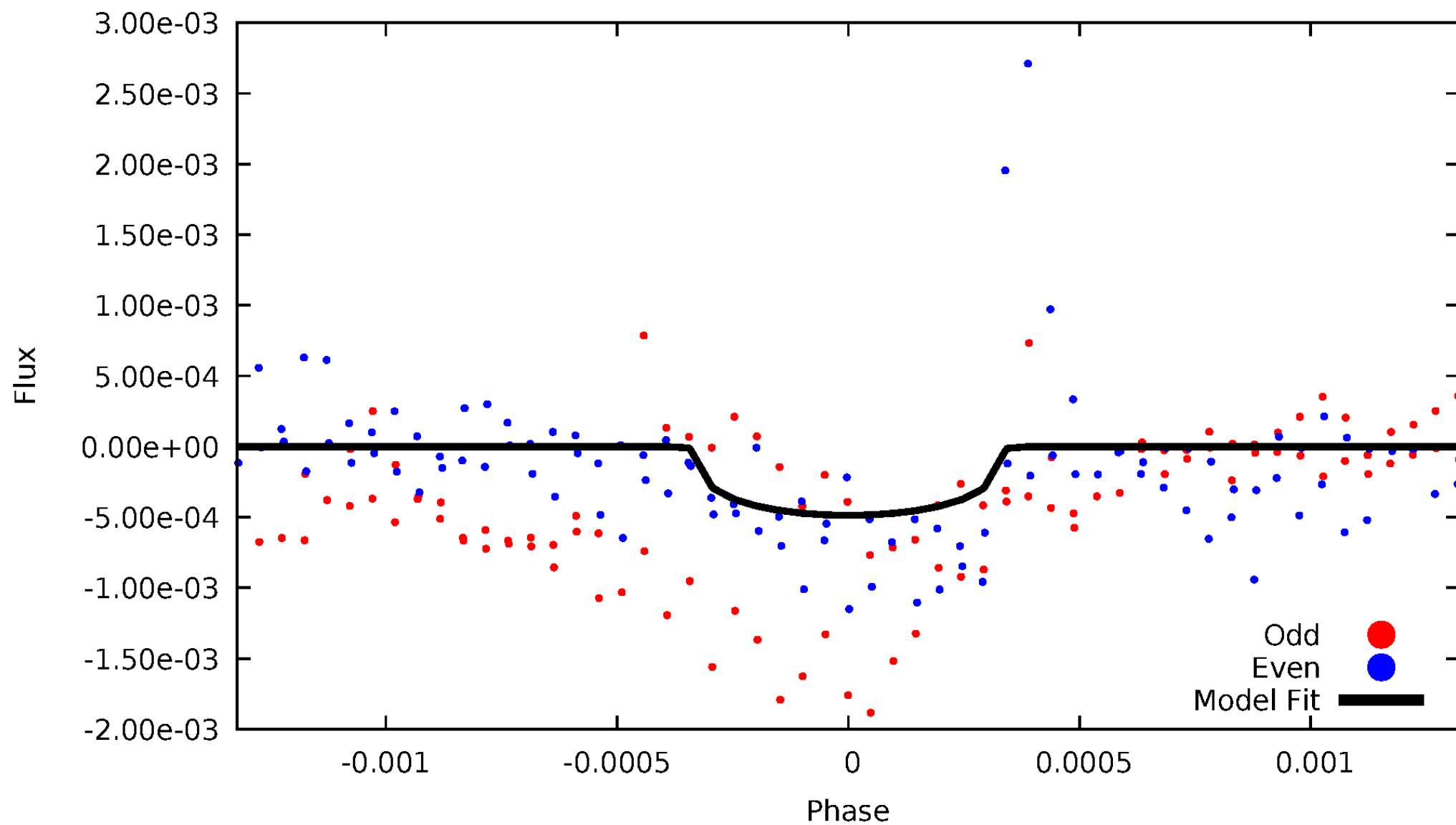


TCE 007186446-01



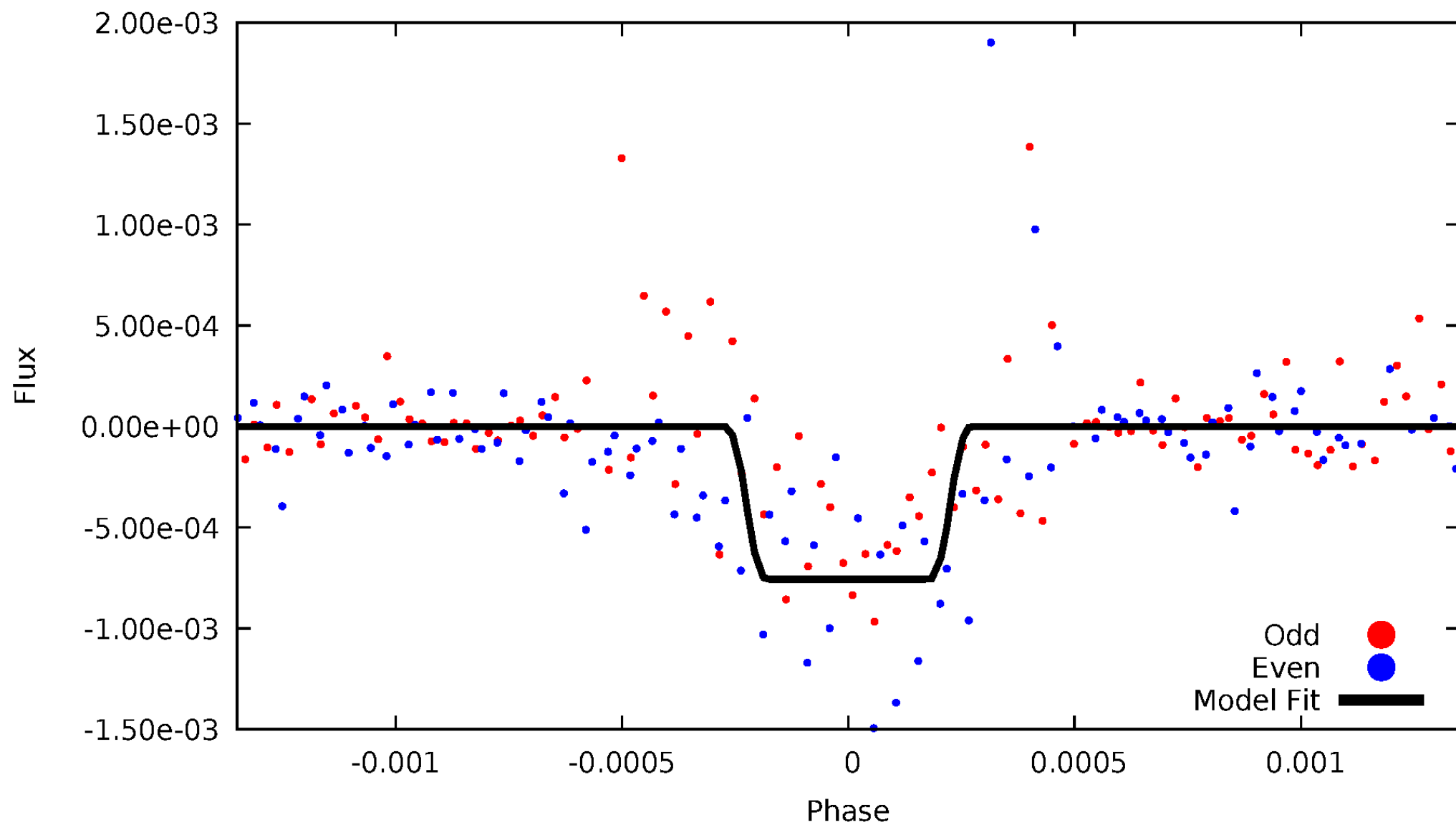
DV Odd/Even

TCE 007186446-01



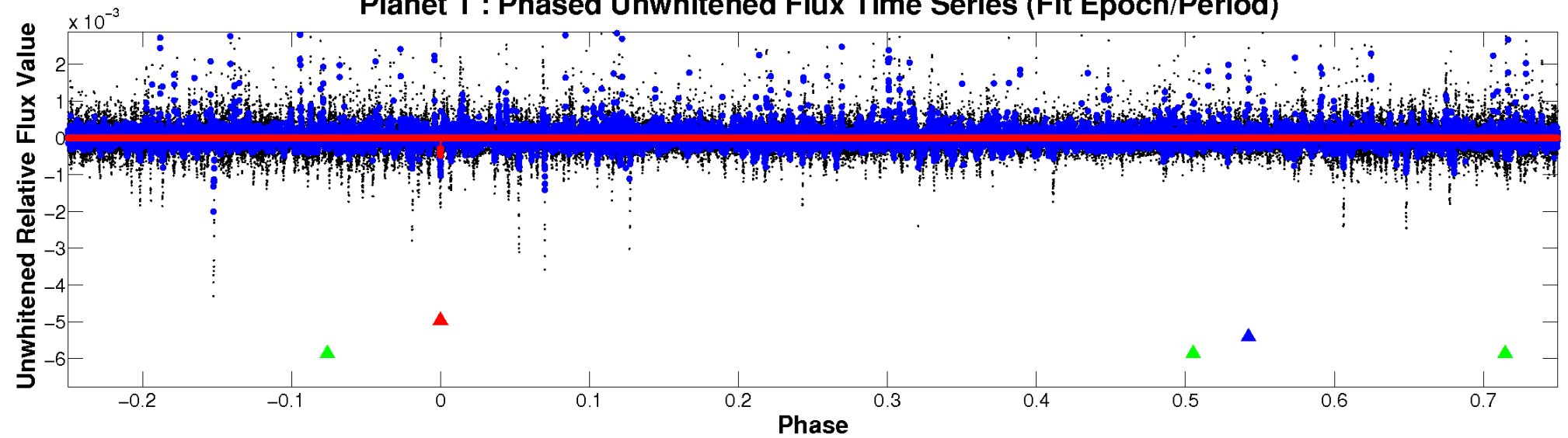
ALT Odd/Even

TCE 007186446-01

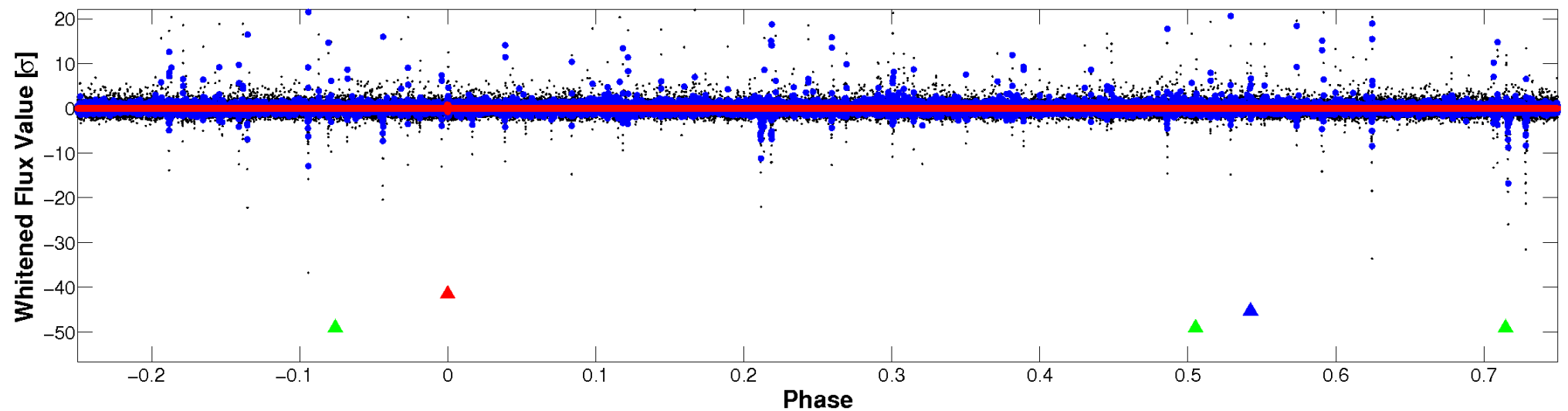


Non-Whitened Vs. Whitened Light Curve

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

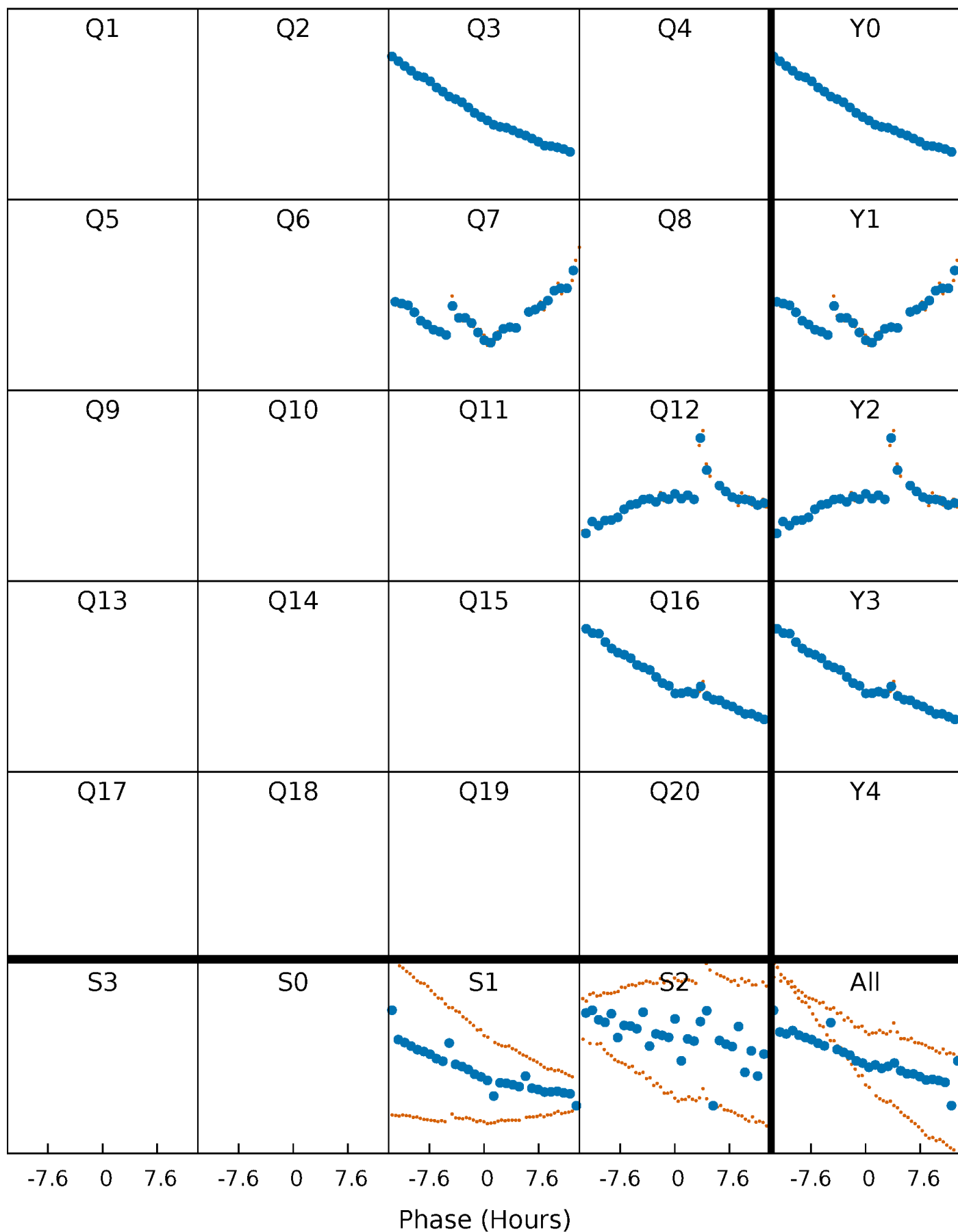


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



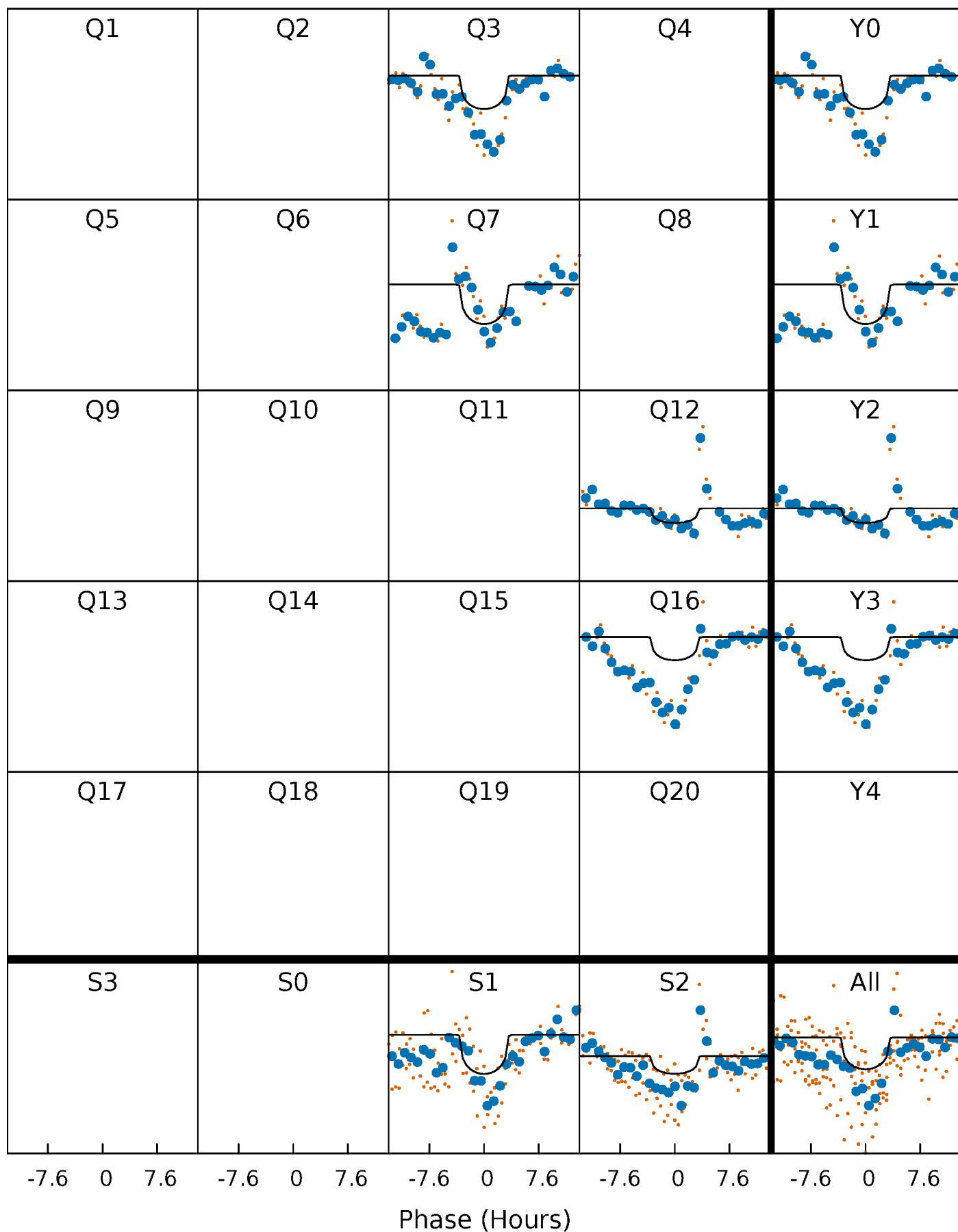
PDC Quarter-Phased Transit Curves

TCE 007186446-01 P=417.642097 Days $T_0=299.373033$ (BKJD)



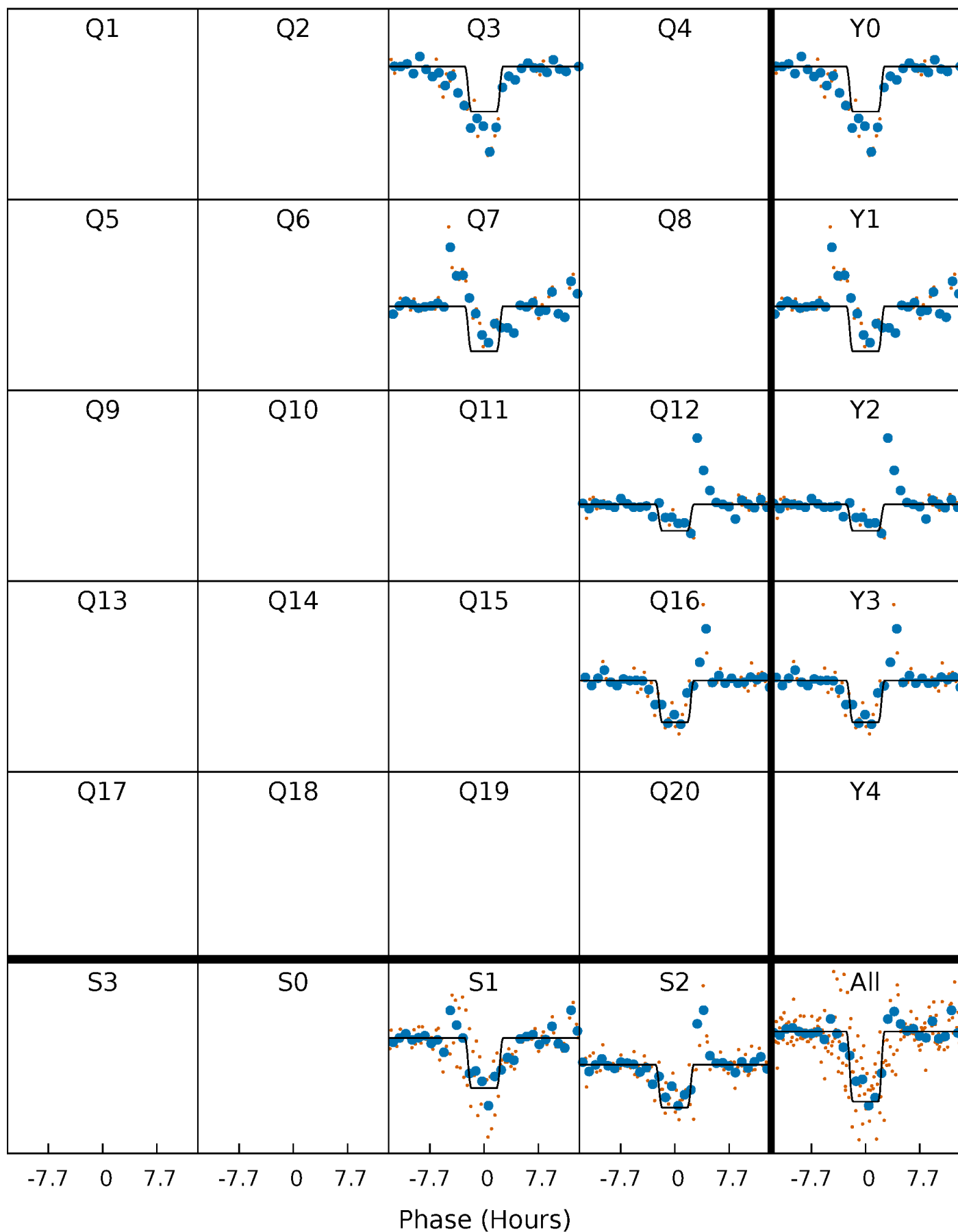
DV Quarter-Phased Transit Curves

TCE 007186446-01 P=417.642097 Days $T_0=299.373033$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

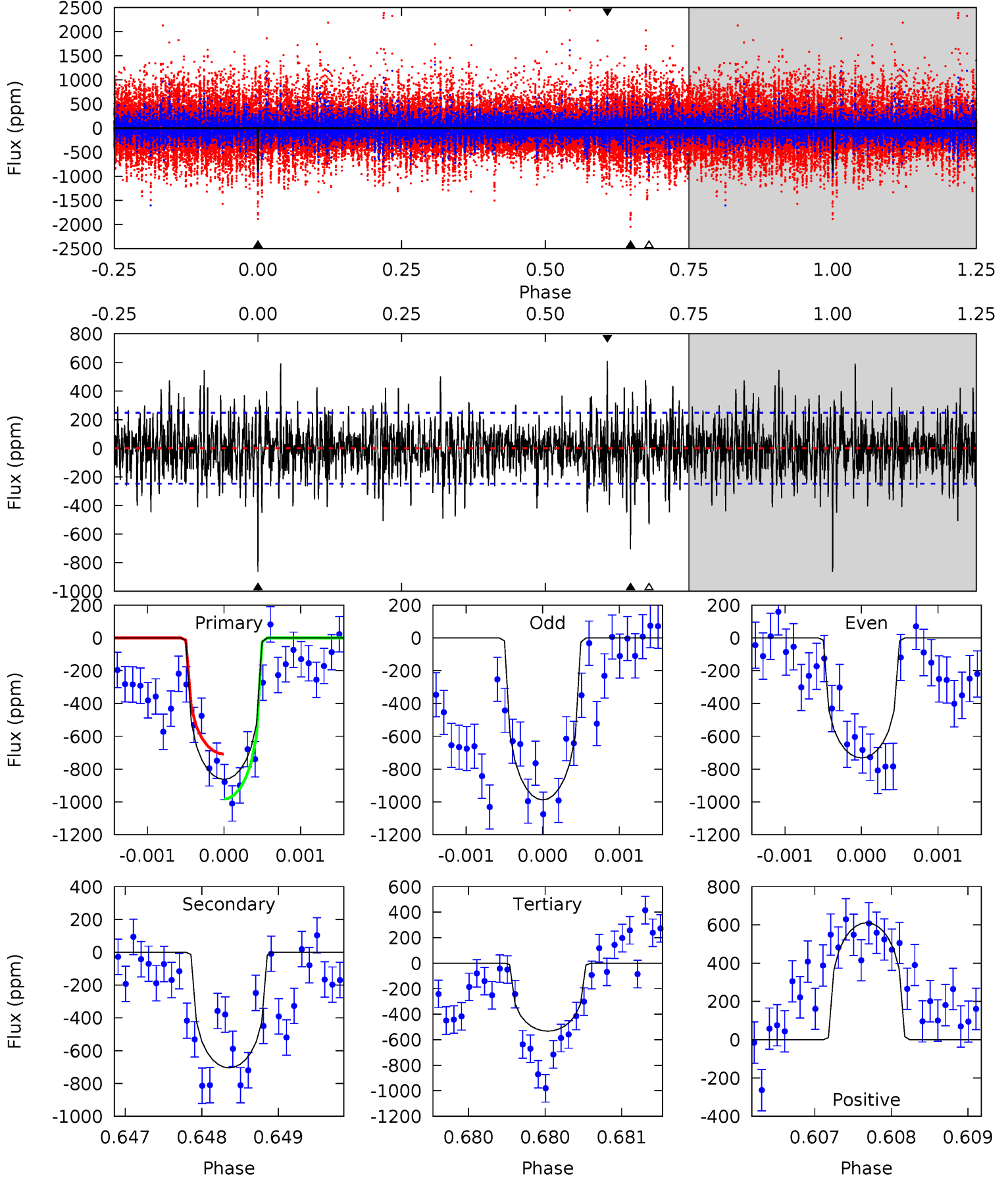
TCE 007186446-01 P=417.627910 Days $T_0=299.411531$ (BKJD)



DV Model-Shift Uniqueness Test

007186446-01, P = 417.642097 Days, E = 299.373033 Days

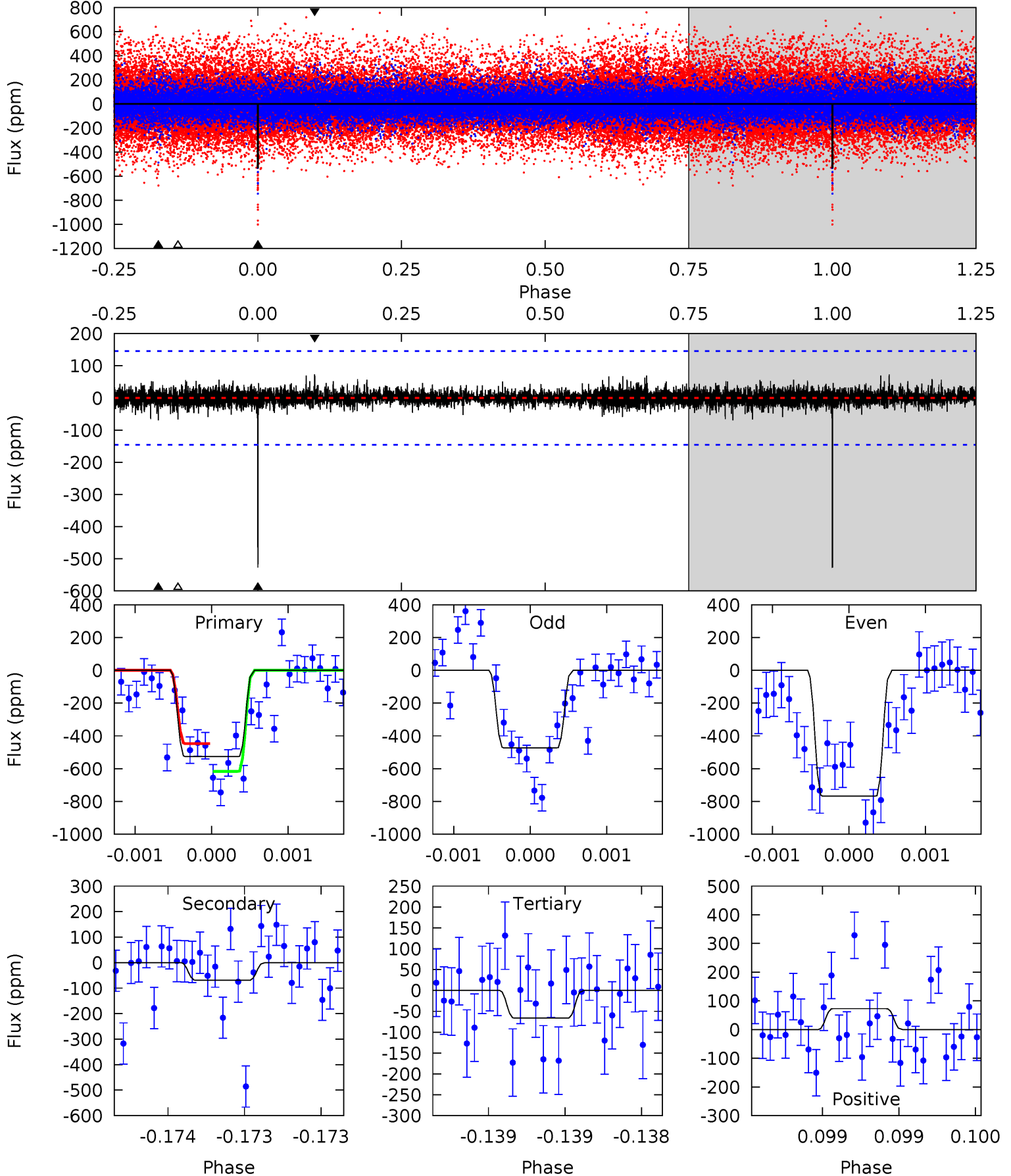
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.2	15.7	11.8	13.6	5.52	3.39	3.06	7.34	5.60	3.83	2.08	2.53	1.17	0.41	0



Alt Model-Shift Uniqueness Test

007186446-01, P = 417.627910 Days, E = 299.411531 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	2.64	2.53	2.79	5.57	3.48	0.55	17.6	17.3	0.11	-0.15	5.93	1.18	0.12	3.28



Stellar Parameters For KIC 007186446

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4374^{+131}_{-131}	$4.626^{+0.053}_{-0.021}$	$-0.220^{+0.300}_{-0.300}$	$0.635^{+0.045}_{-0.055}$	$0.621^{+0.068}_{-0.050}$	$3.422^{+0.734}_{-0.367}$
	+3%/-3%	+1%/-0%	+136%/-136%	+7%/-9%	+11%/-8%	+21%/-11%
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 007186446-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-705 ± 45	$1.81^{+1.45}_{-1.15}$	221^{+8}_{-8}	4371^{+2361}_{-814}	$101940^{+658799}_{-70200}$
Alt.	-69 ± 26	$2.06^{+1.58}_{-1.21}$	221^{+8}_{-8}	2873^{+915}_{-427}	7264^{+38083}_{-5140}

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

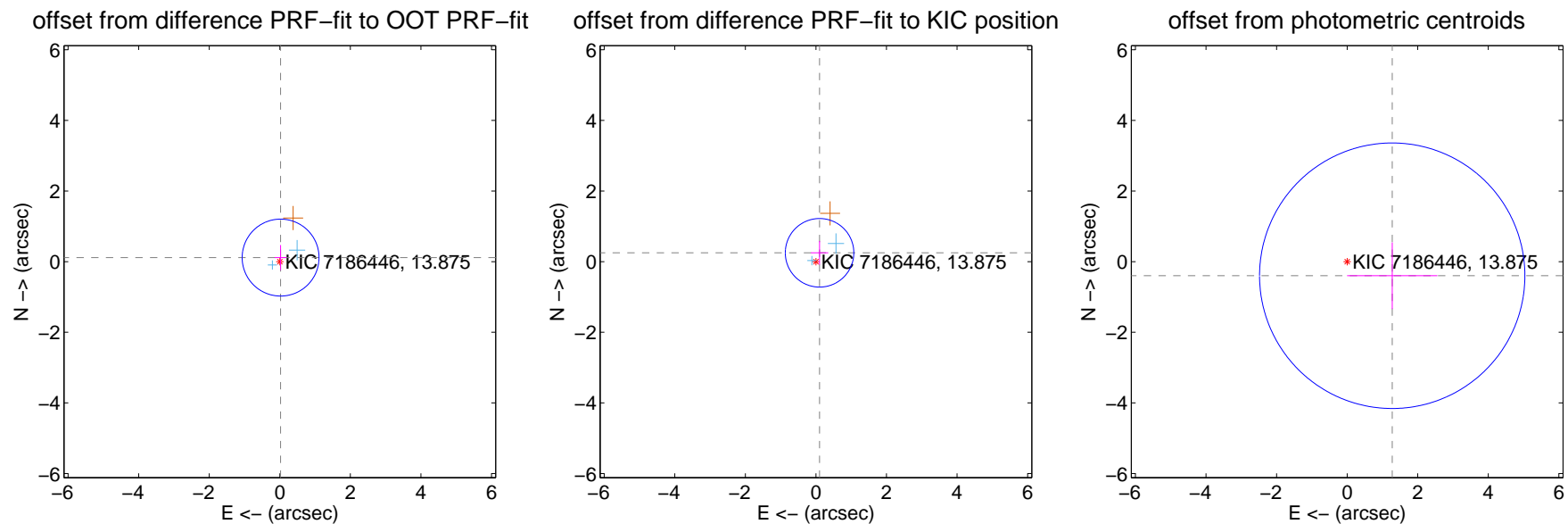
DV Centroid Data

Supplemental centroid analysis for 007186446-01. Kepler magnitude: 13.88. Transit SNR 5.81

There are 2 quarters with good PRF difference image offsets

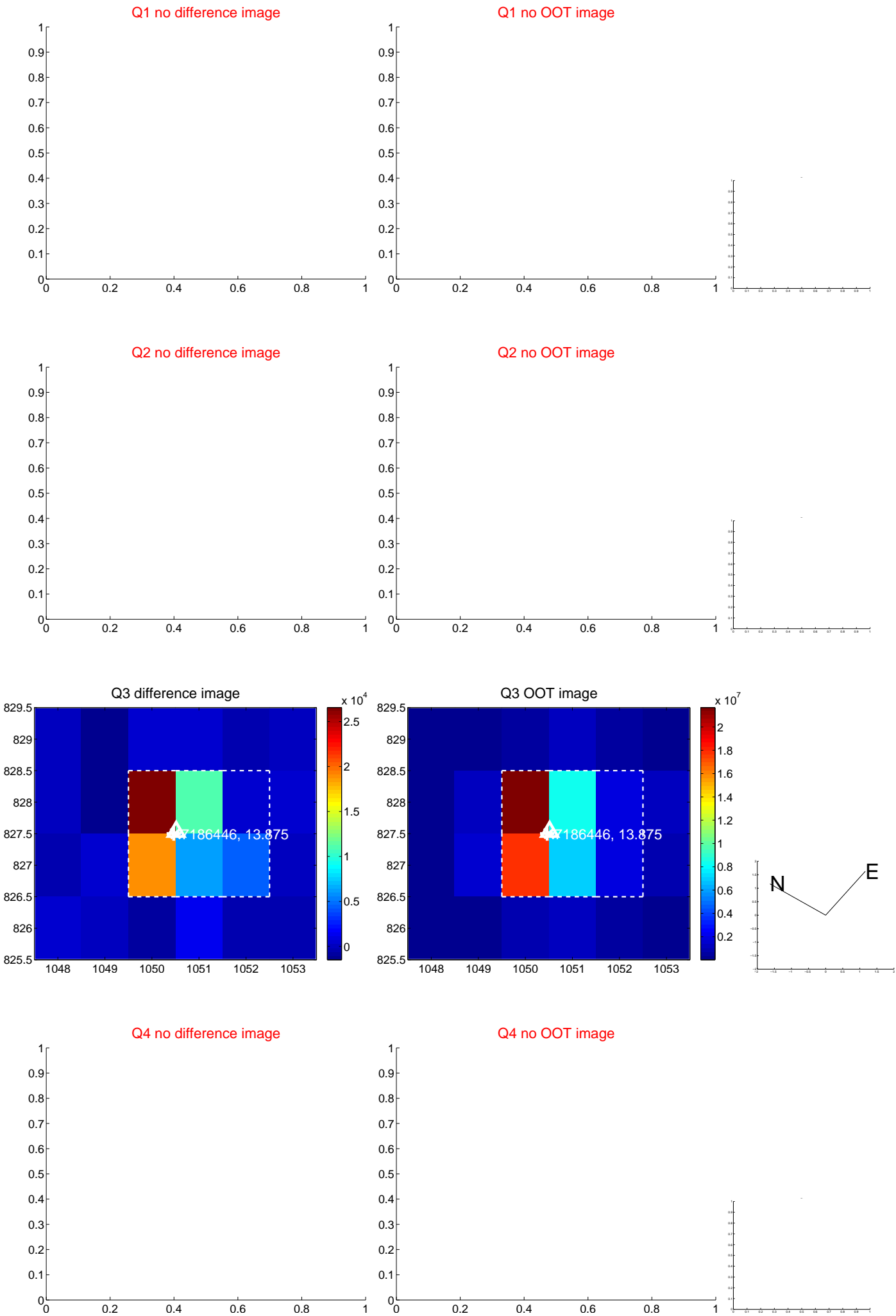
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.117 ± 0.363	0.32	-0.023 ± 0.167	0.115 ± 0.355
PRF-fit source offset from KIC position	0.271 ± 0.324	0.84	-0.103 ± 0.246	0.250 ± 0.335
photometric centroid source offset	1.34 ± 1.25	1.07	-1.28 ± 1.28	-0.40 ± 0.94

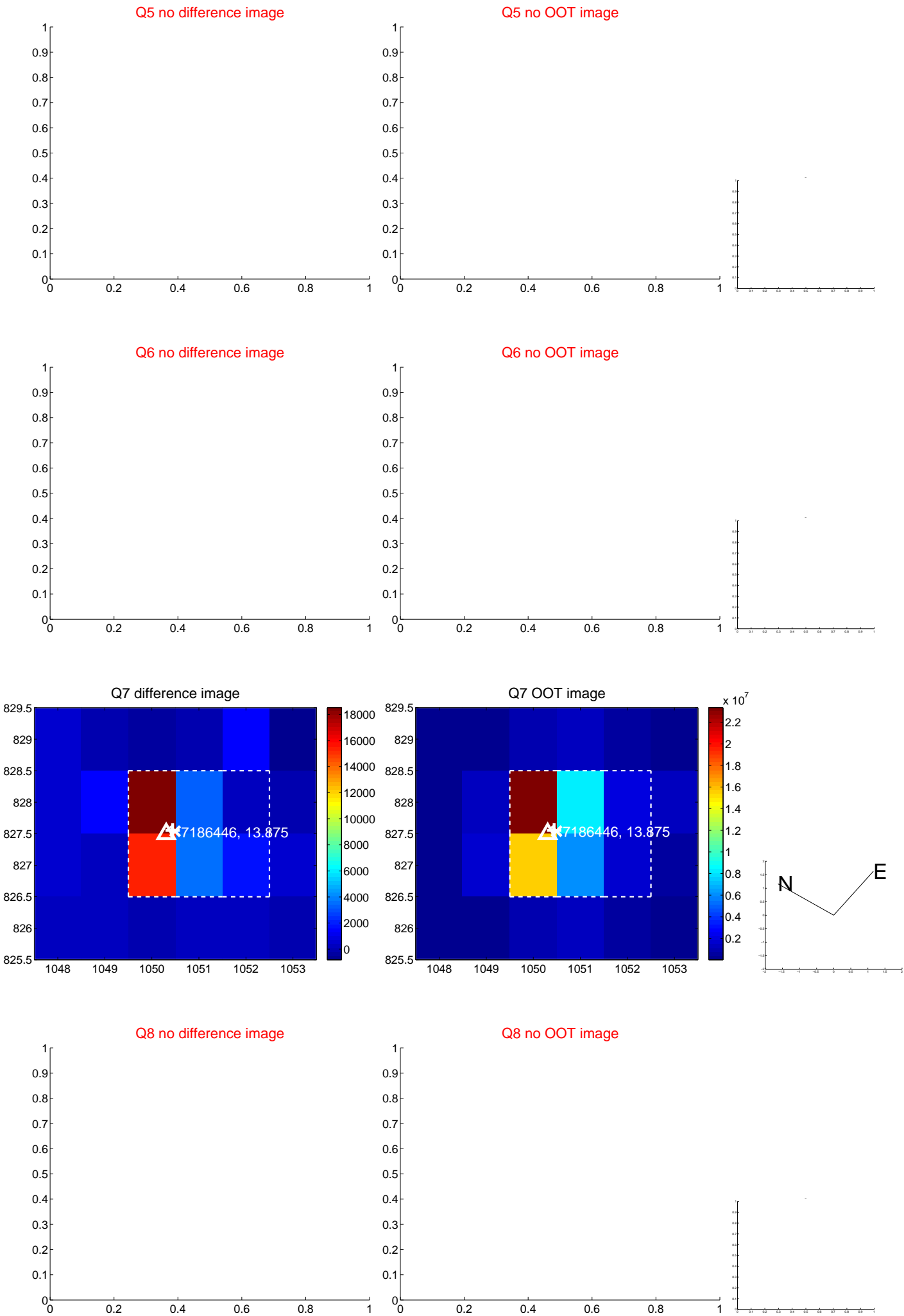


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



Q10 no difference image



Q10 no OOT image



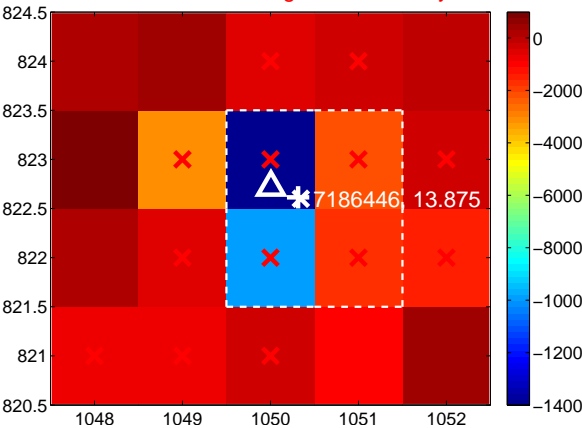
Q11 no difference image



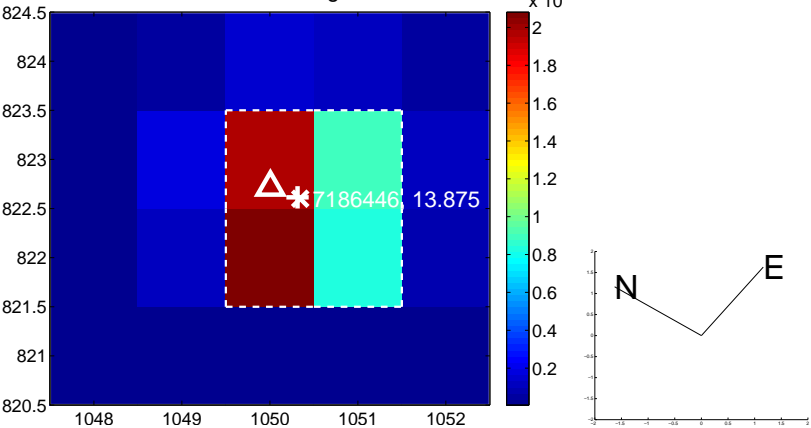
Q11 no OOT image



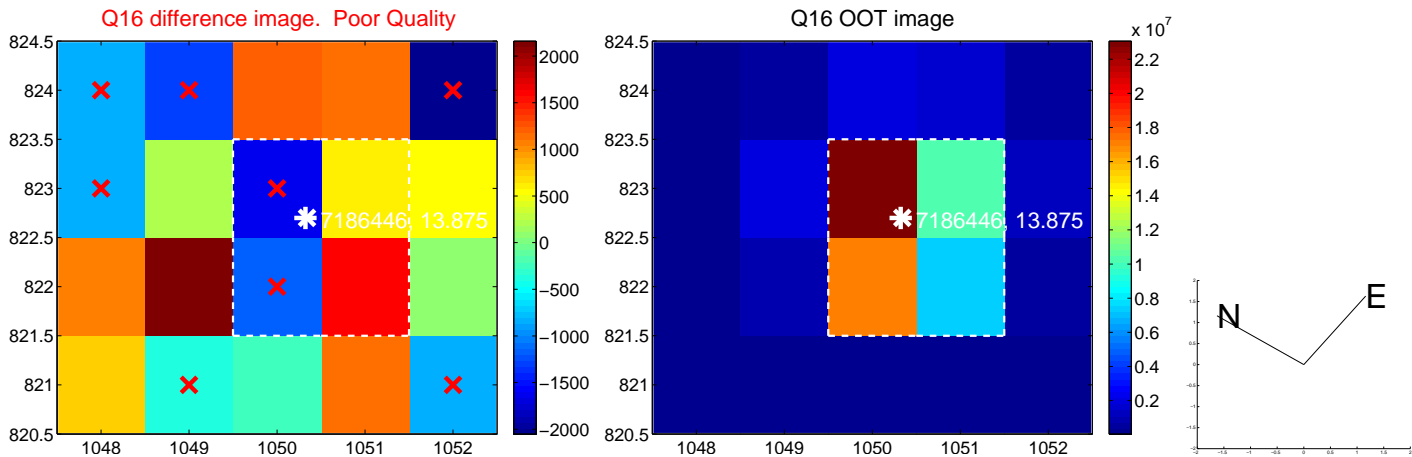
Q12 difference image. Poor Quality



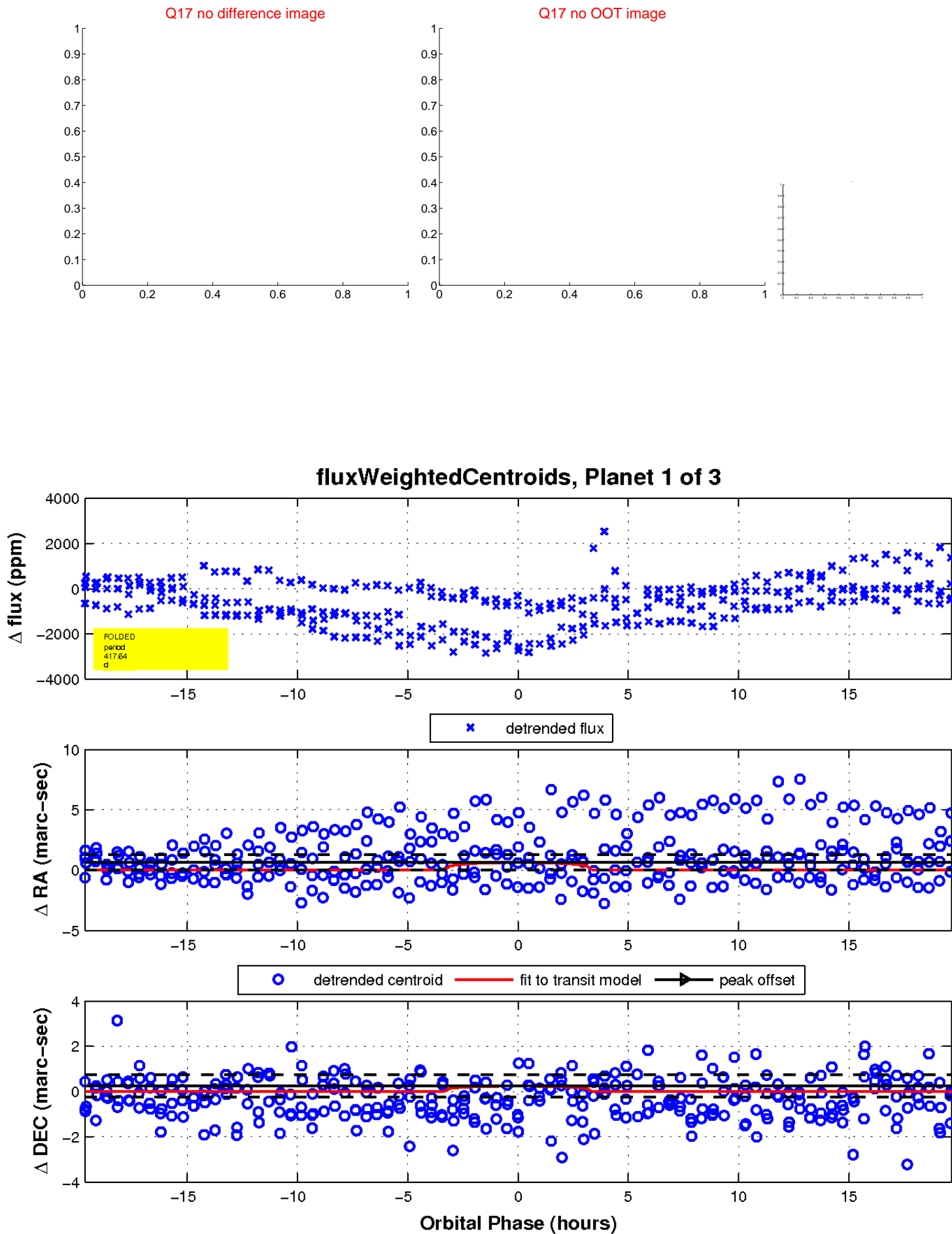
Q12 OOT image



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

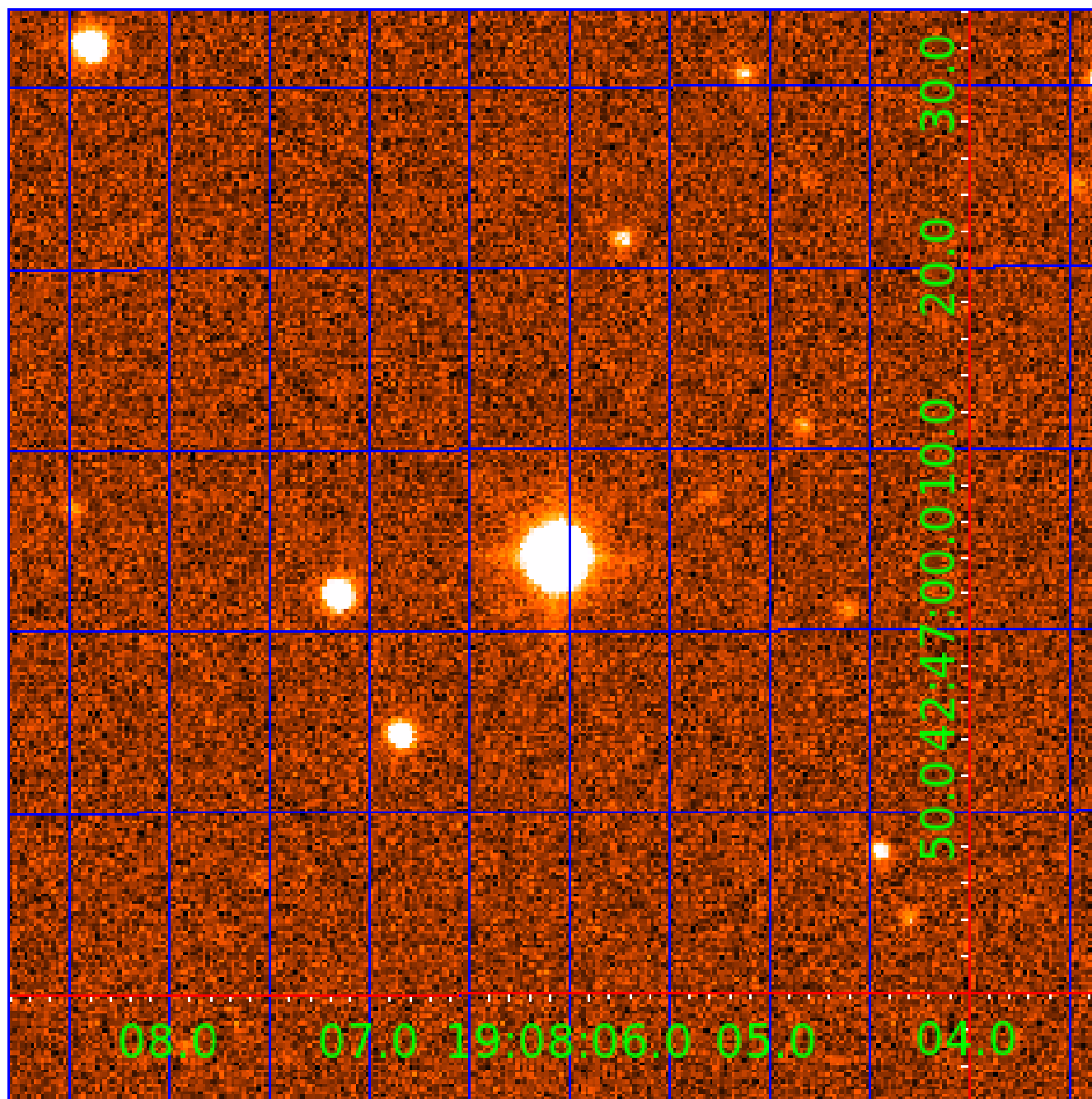


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007186446

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})
007186446-01	OBS	No	417.642097	299.373033	486.5	6.624	9.8	5.8	0.64	4374	1.40	0.15
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007186446-03	OBS	No	505.099502	510.391897	677.6	6.170	13.7	7.0	0.64	4374	1.84	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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007186446-02	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—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007186446-03	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.

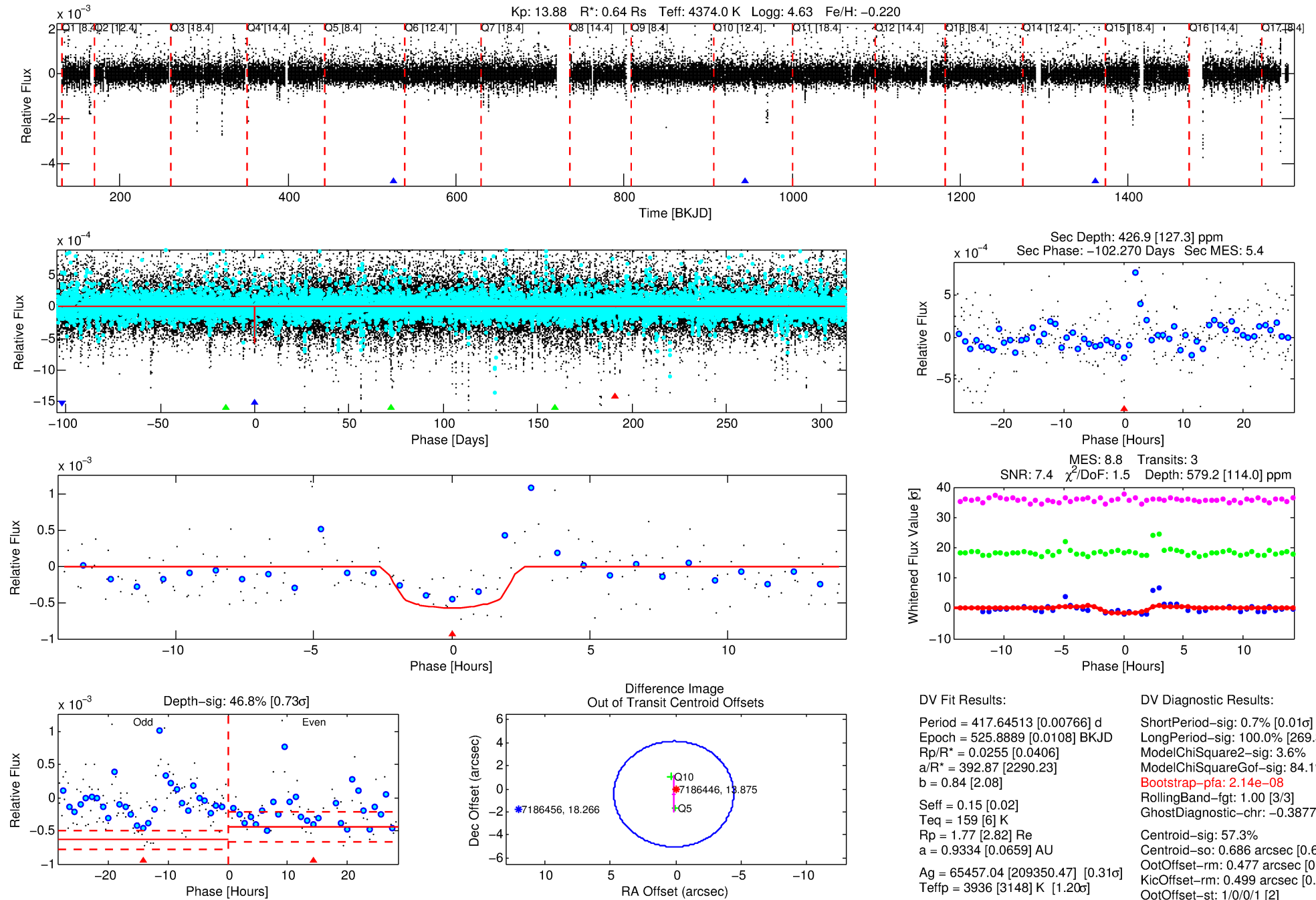
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007186446-02

No Significant Match Found

DV One-Page Summary

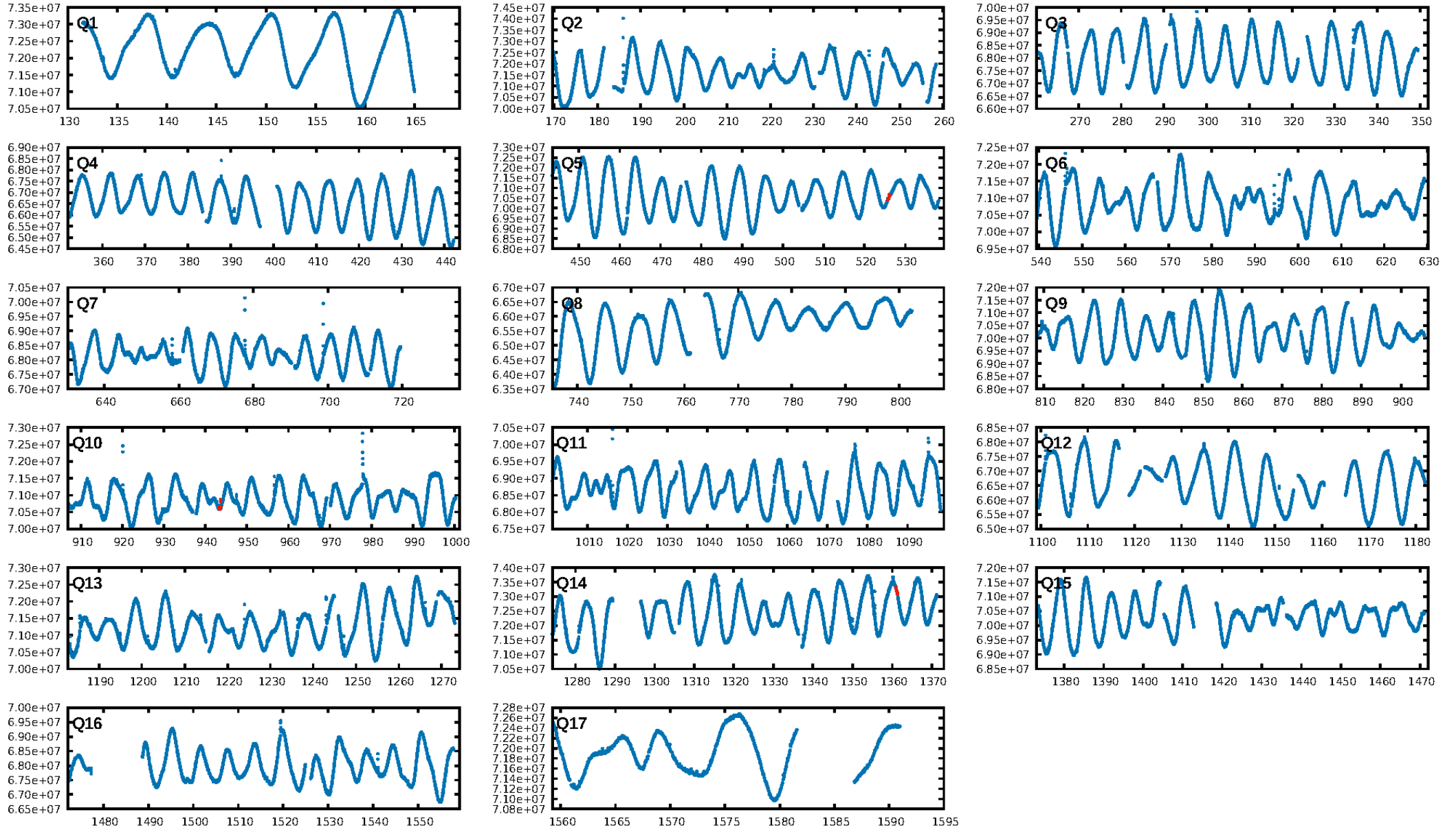
KIC: 7186446 Candidate: 2 of 3 Period: 417.645 d



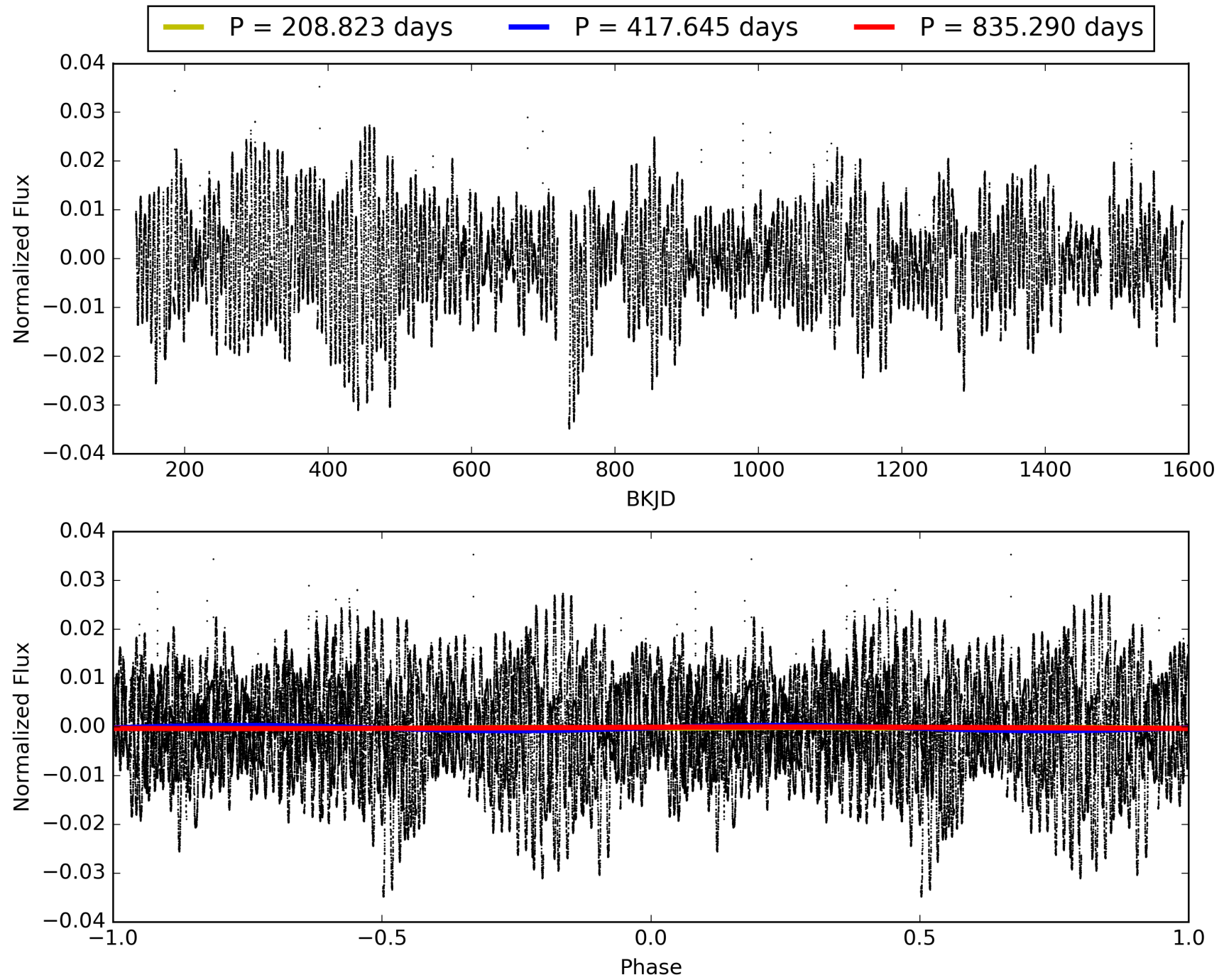
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 15:50:53 Z

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

TCE 007186446-02, PDC Light Curves

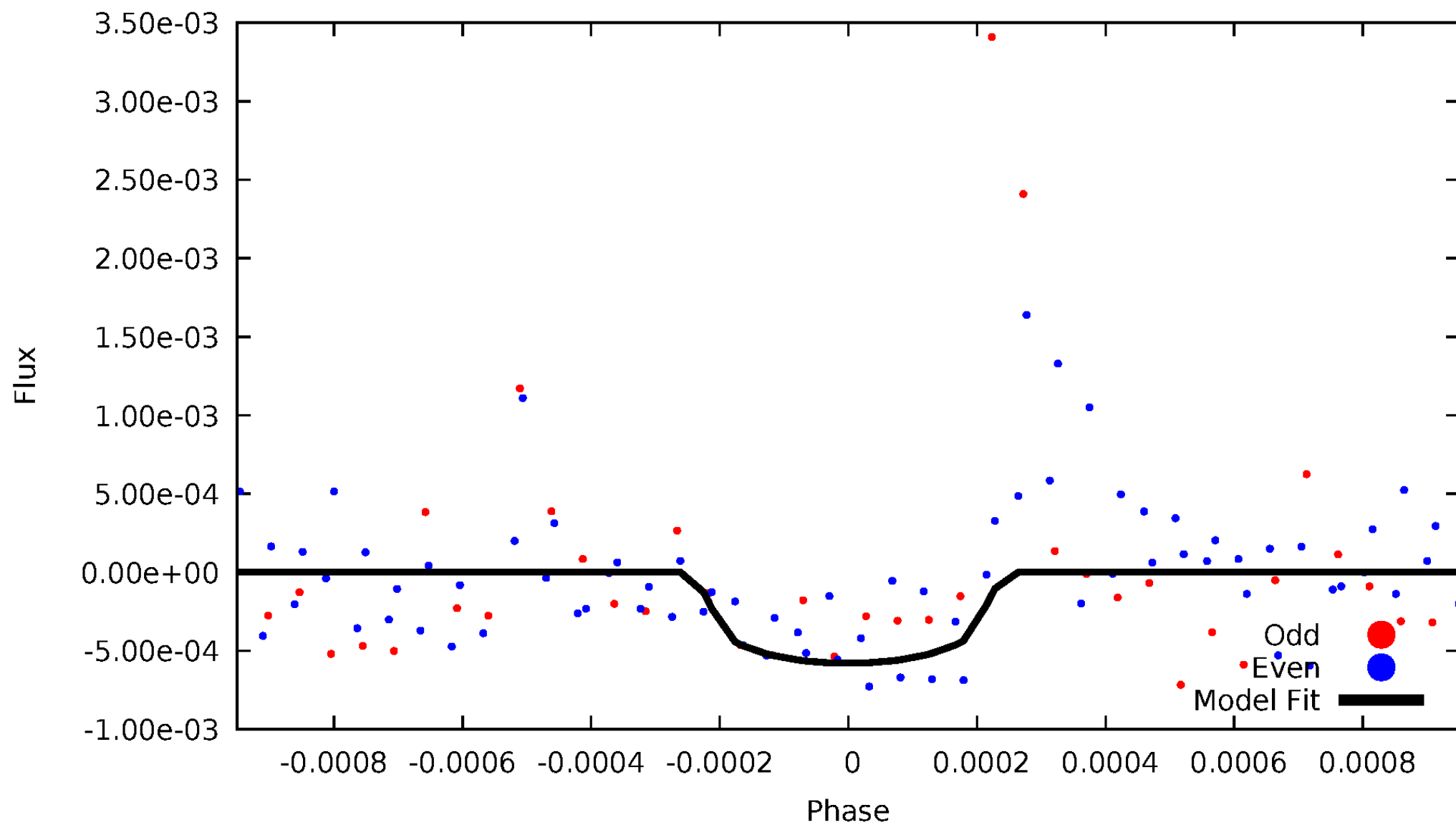


TCE 007186446-02



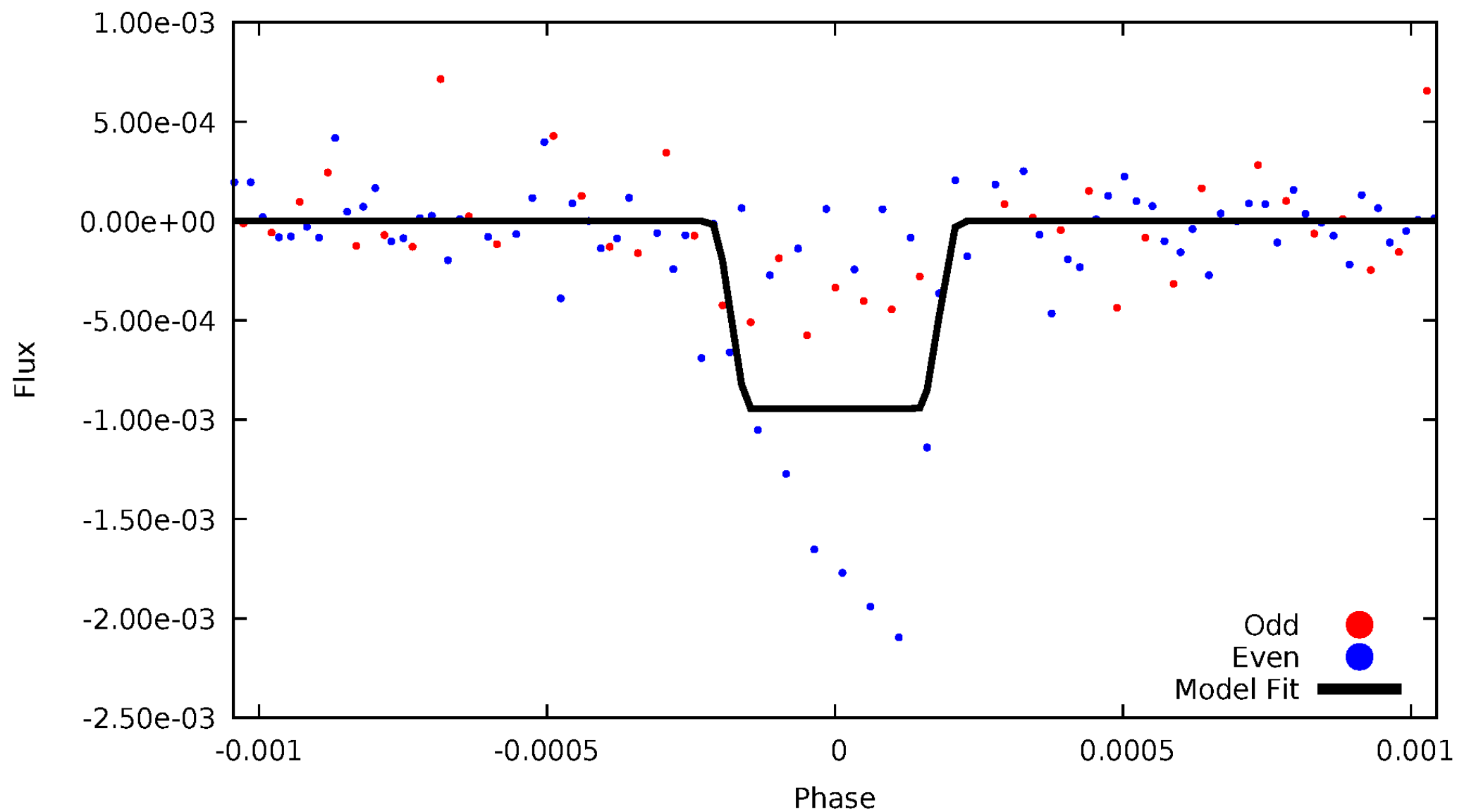
DV Odd/Even

TCE 007186446-02



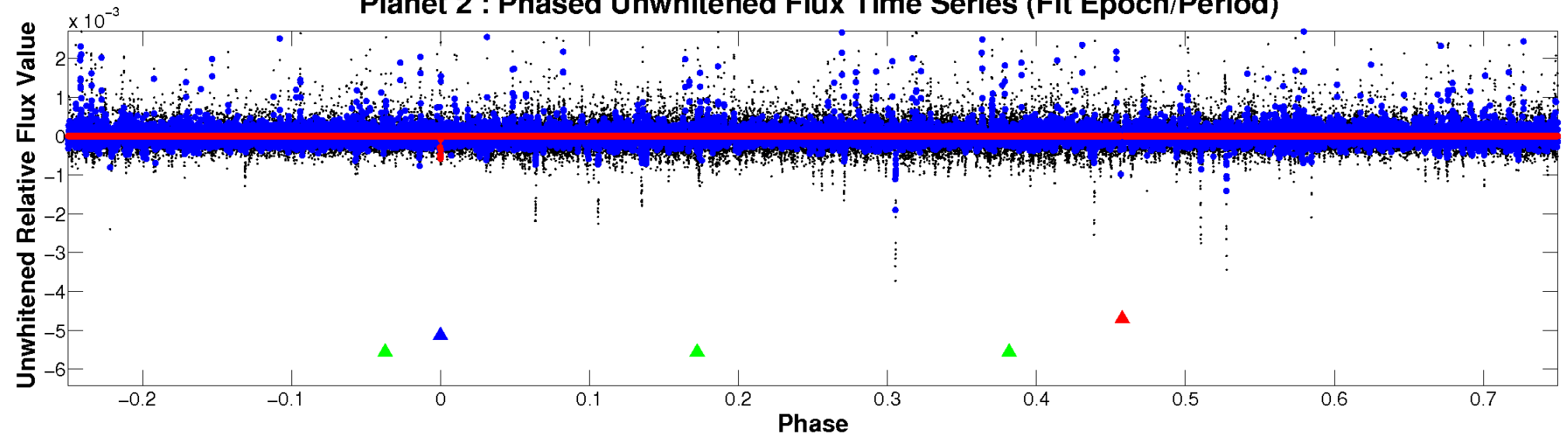
ALT Odd/Even

TCE 007186446-02

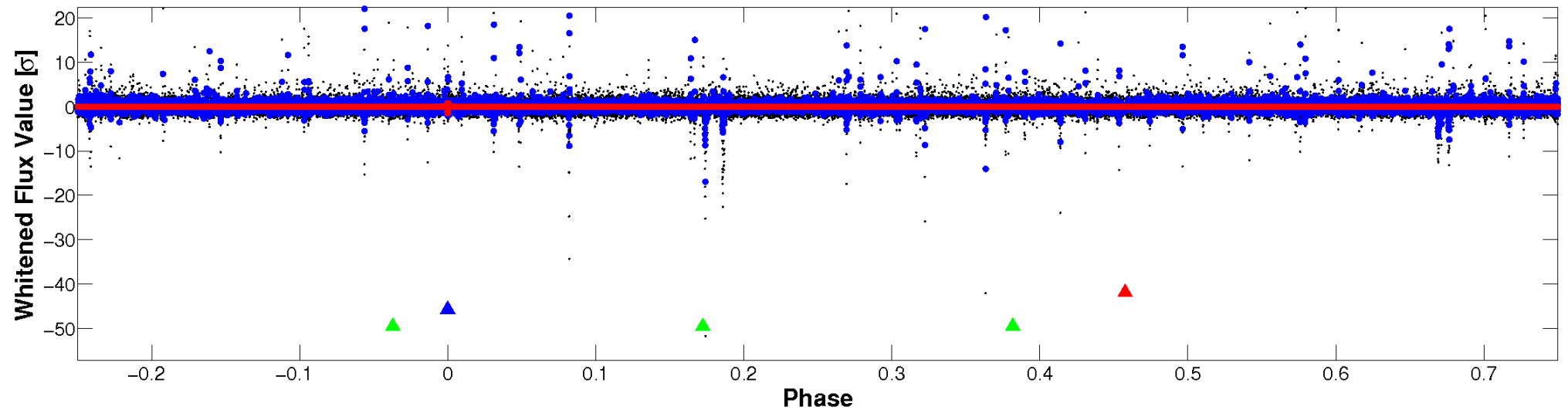


Non-Whitened Vs. Whitened Light Curve

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

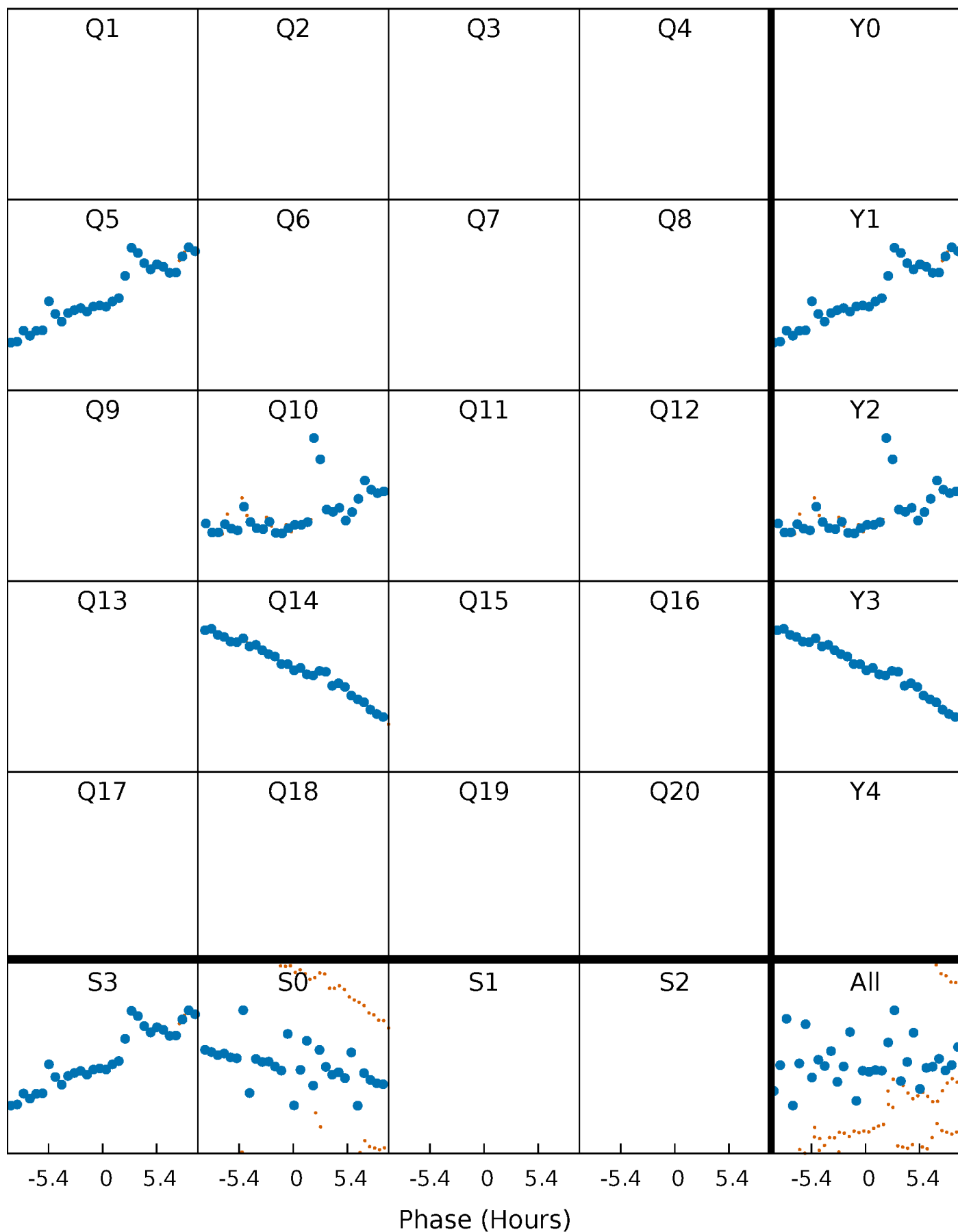


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



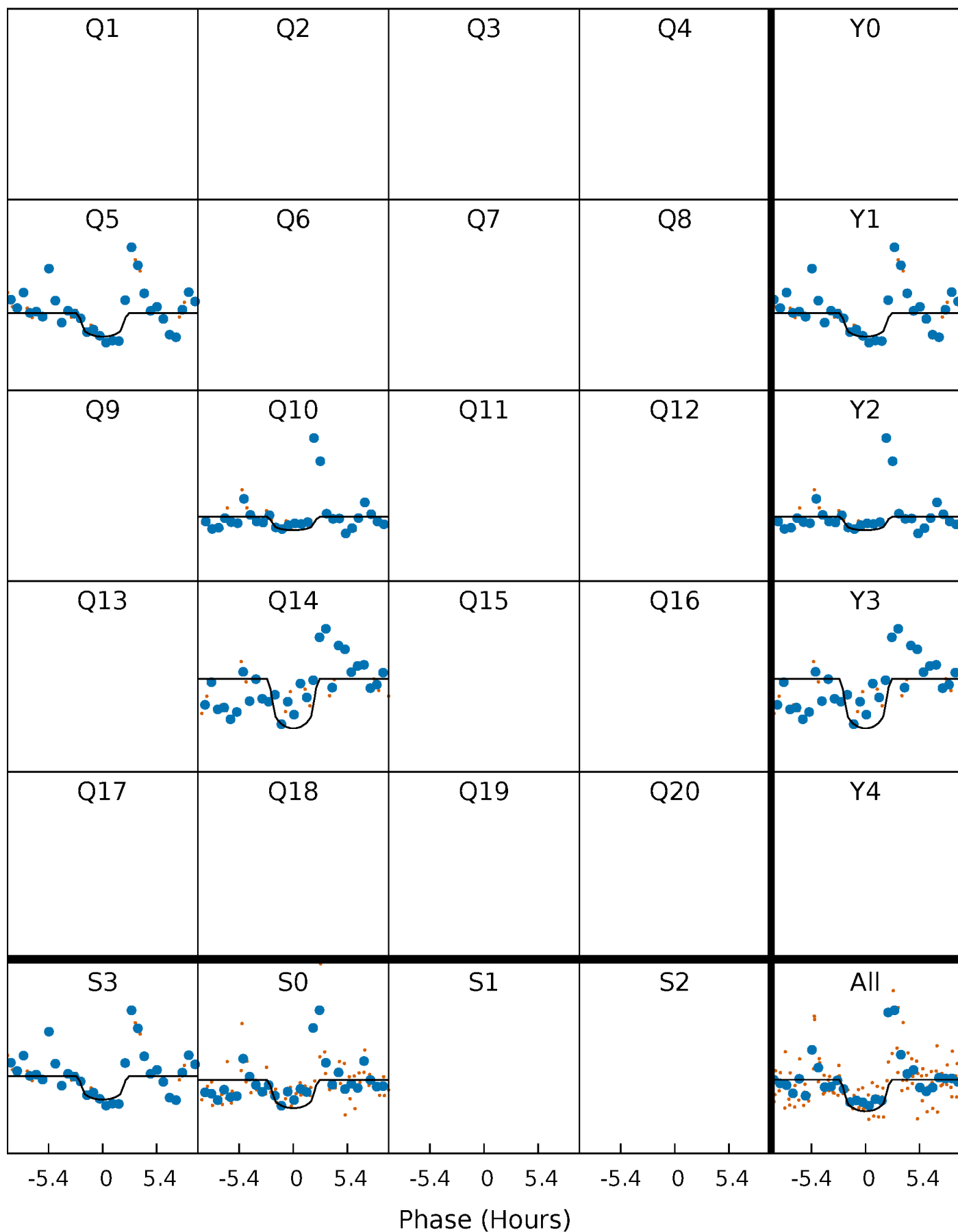
PDC Quarter-Phased Transit Curves

TCE 007186446-02 P=417.645134 Days $T_0=525.888920$ (BKJD)



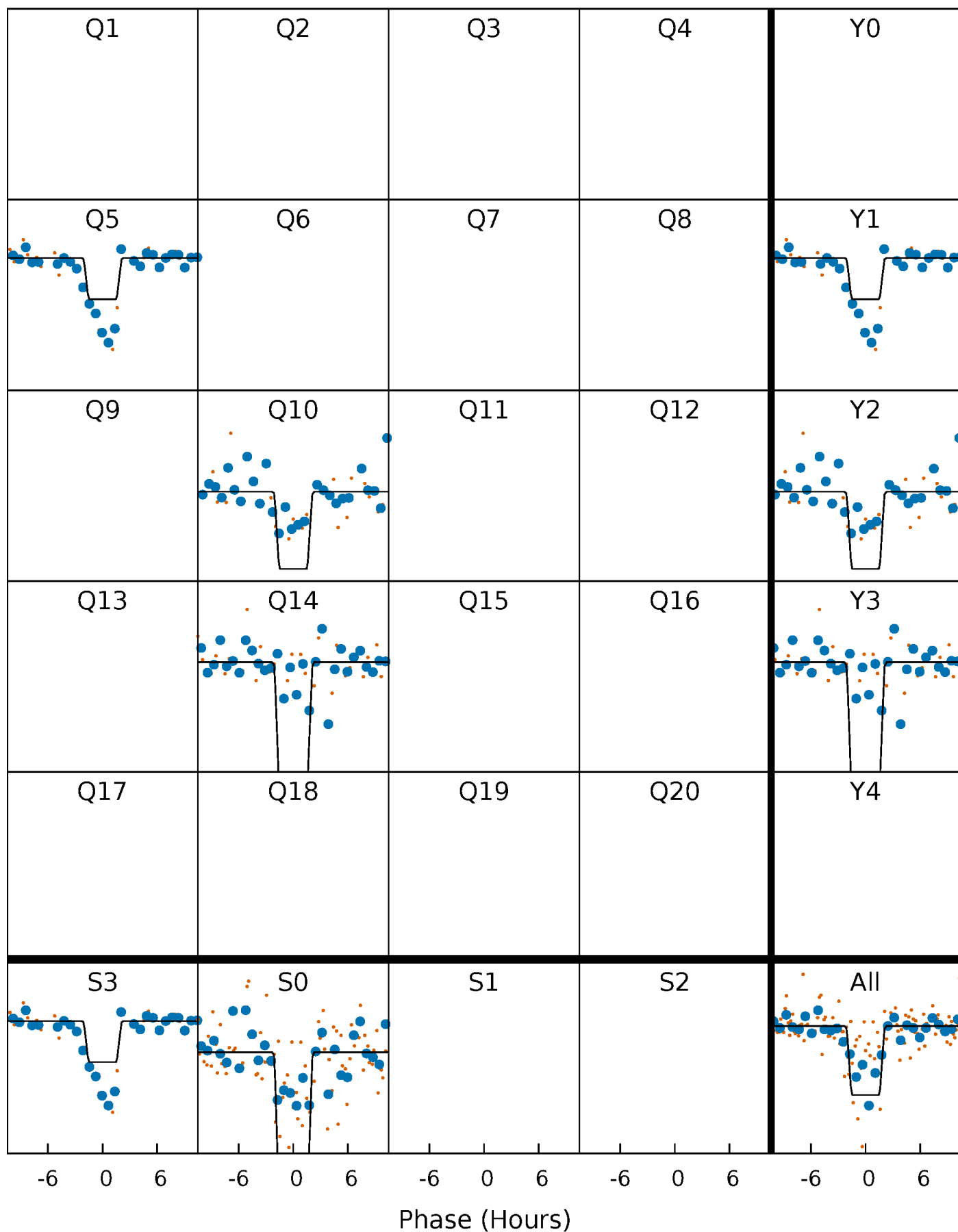
DV Quarter-Phased Transit Curves

TCE 007186446-02 $P=417.645134$ Days $T_0=525.888920$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

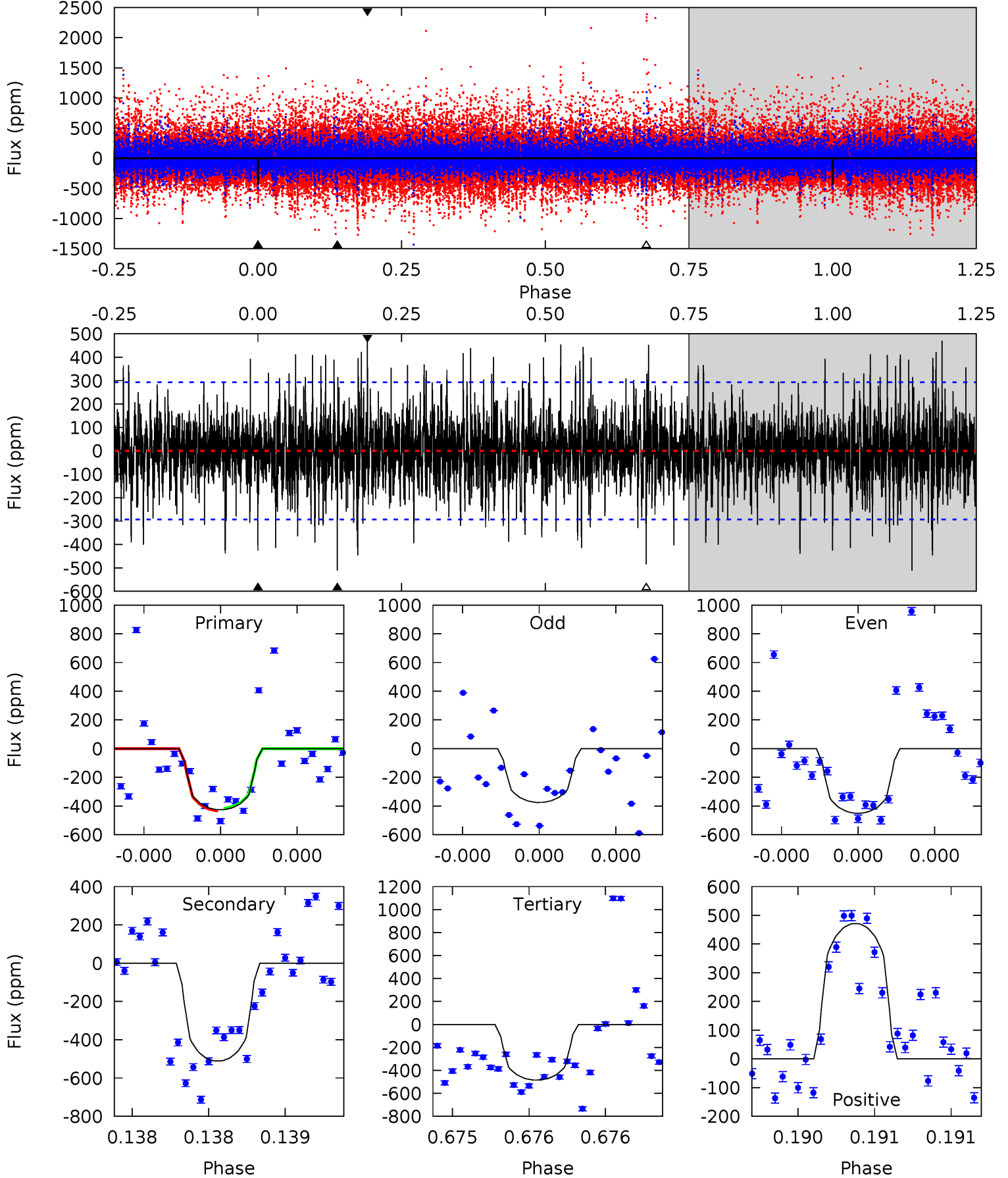
TCE 007186446-02 P=417.627910 Days $T_0=525.917390$ (BKJD)



DV Model-Shift Uniqueness Test

007186446-02, P = 417.645134 Days, E = 108.243786 Days

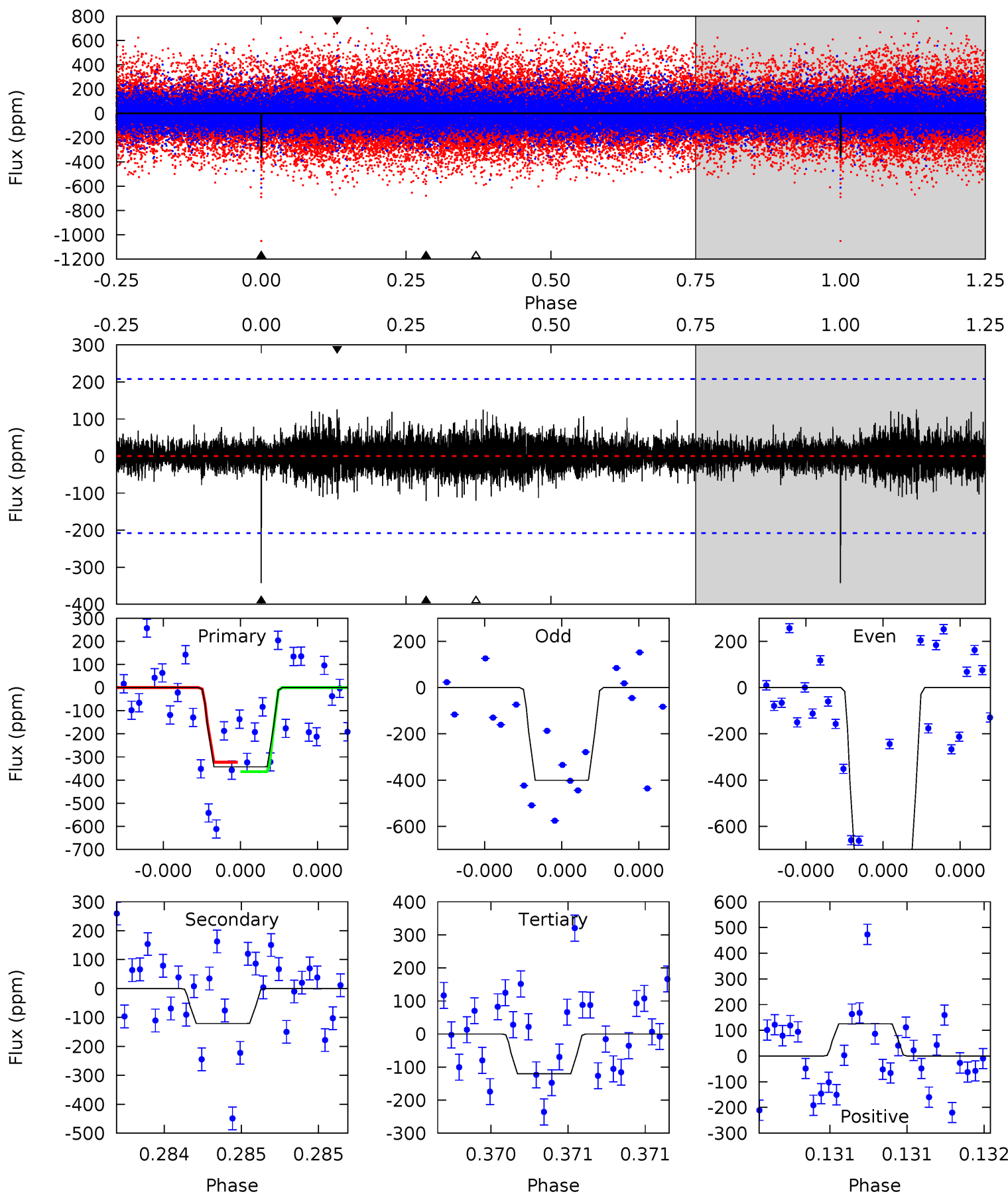
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.10	9.73	9.22	8.97	5.58	3.49	2.07	-1.12	-0.87	0.51	0.76	0.55	1.30	0.48	0.17



Alt Model-Shift Uniqueness Test

007186446-02, P = 417.627910 Days, E = 108.289480 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.23	3.25	3.24	3.38	5.60	3.52	0.68	5.99	5.85	0.01	-0.13	6.46	1.73	0.27	0.56



Stellar Parameters For KIC 007186446

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4374^{+131}_{-131}	$4.626^{+0.053}_{-0.021}$	$-0.220^{+0.300}_{-0.300}$	$0.635^{+0.045}_{-0.055}$	$0.621^{+0.068}_{-0.050}$	$3.422^{+0.734}_{-0.367}$
	+3%/-3%	+1%/-0%	+136%/-136%	+7%/-9%	+11%/-8%	+21%/-11%
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 007186446-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-511 ± 53	$2.62^{+2.44}_{-1.83}$	221^{+7}_{-7}	3651^{+2105}_{-666}	$36979^{+339478}_{-27166}$
Alt.	-121 ± 37	$2.97^{+2.46}_{-1.96}$	221^{+7}_{-8}	2826^{+1002}_{-420}	6537^{+47868}_{-4681}

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 $A_{obs} \gg 1.0$

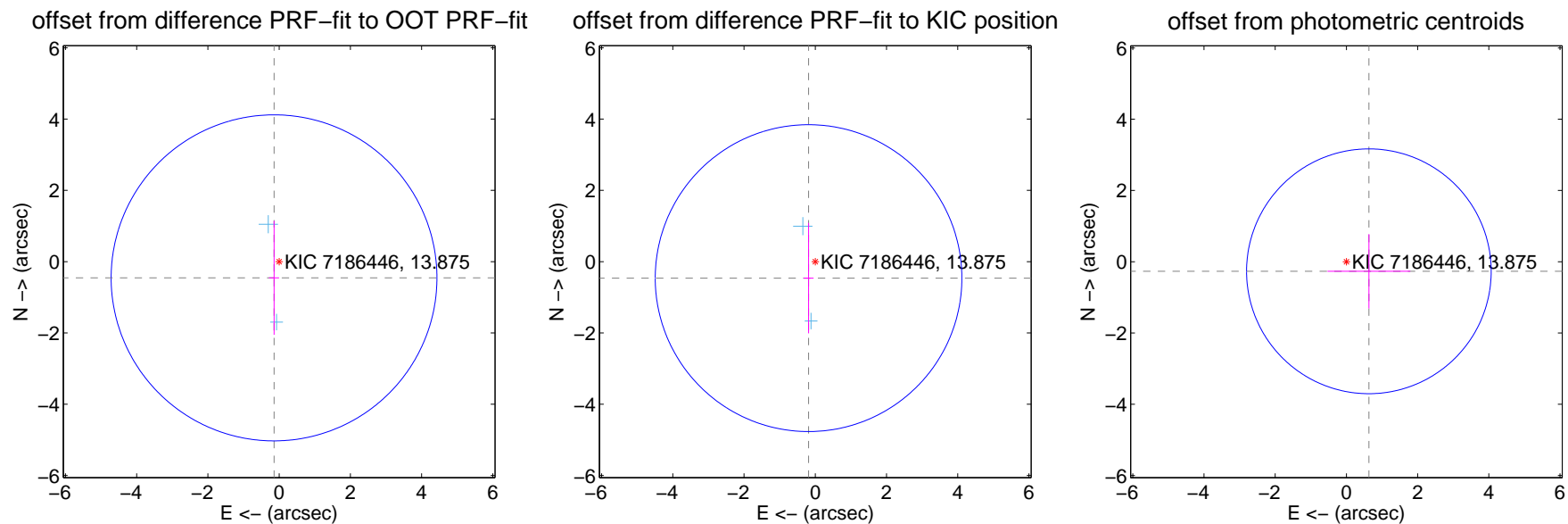
DV Centroid Data

Supplemental centroid analysis for 007186446-02. Kepler magnitude: 13.88. Transit SNR 7.44

There are 2 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.477 ± 1.525	0.31	0.143 ± 0.142	-0.455 ± 1.598
PRF-fit source offset from KIC position	0.499 ± 1.435	0.35	0.189 ± 0.141	-0.462 ± 1.549
photometric centroid source offset	0.69 ± 1.15	0.60	-0.63 ± 1.16	-0.27 ± 1.04

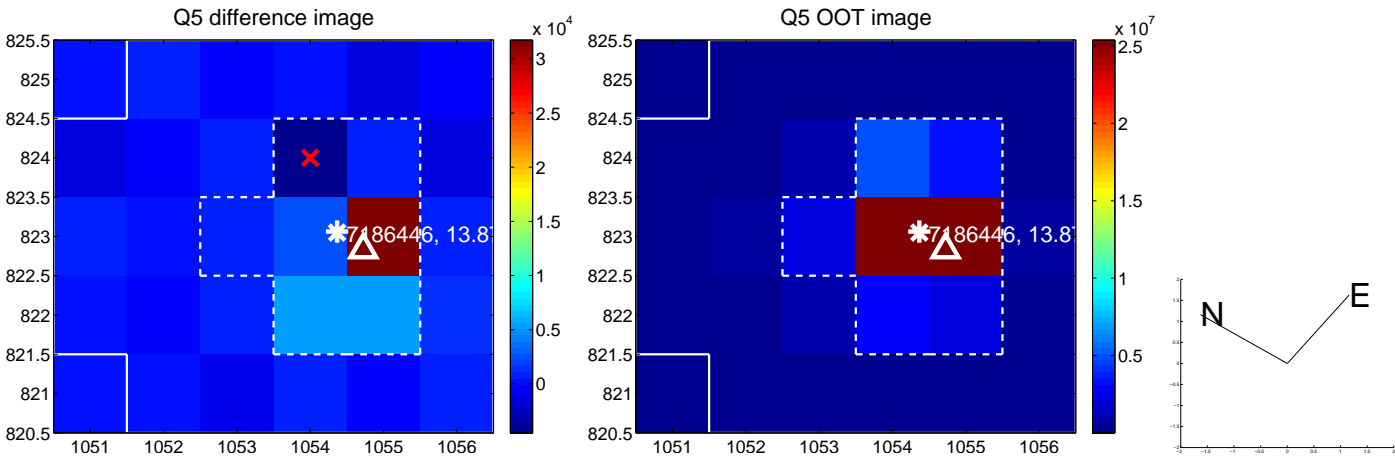


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

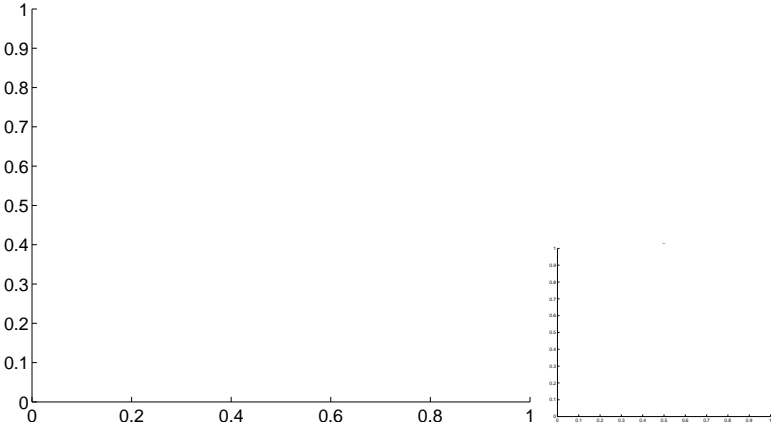


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

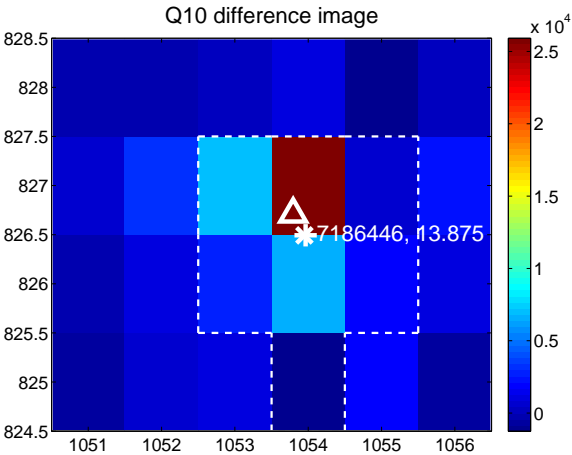
Q9 no difference image



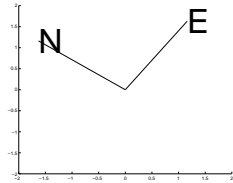
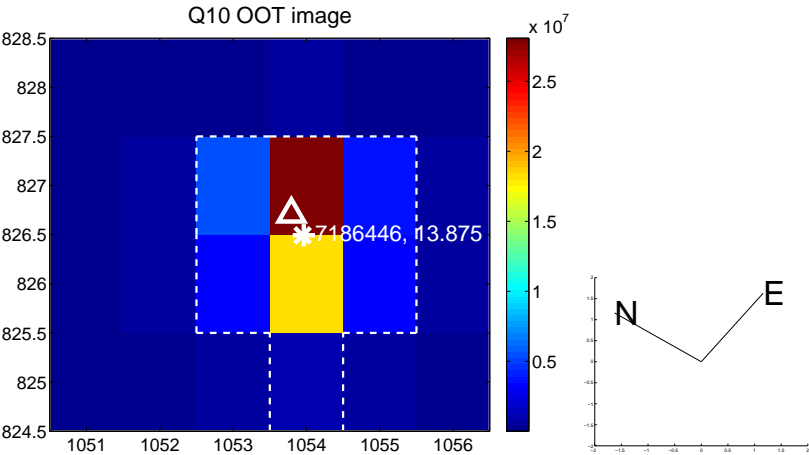
Q9 no OOT image



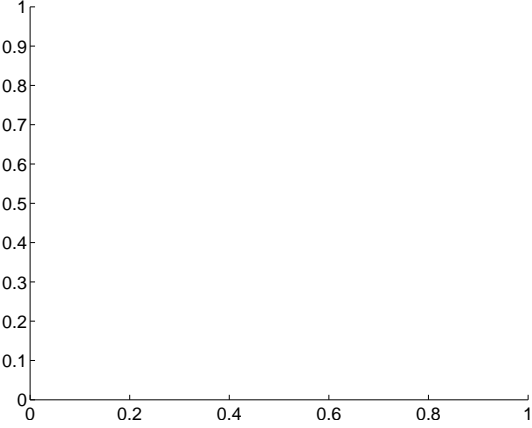
Q10 difference image



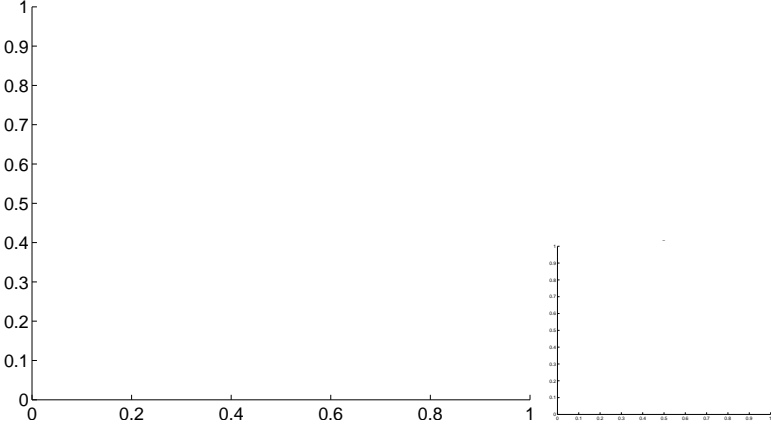
Q10 OOT image



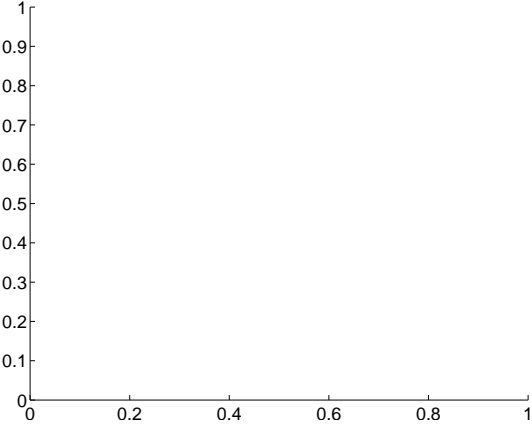
Q11 no difference image



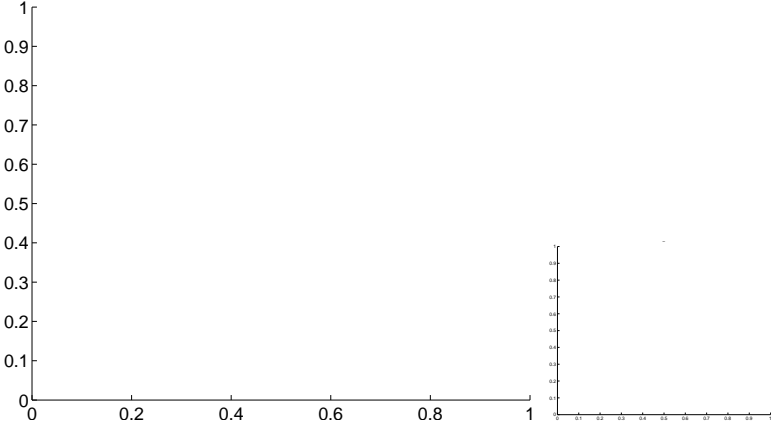
Q11 no OOT image



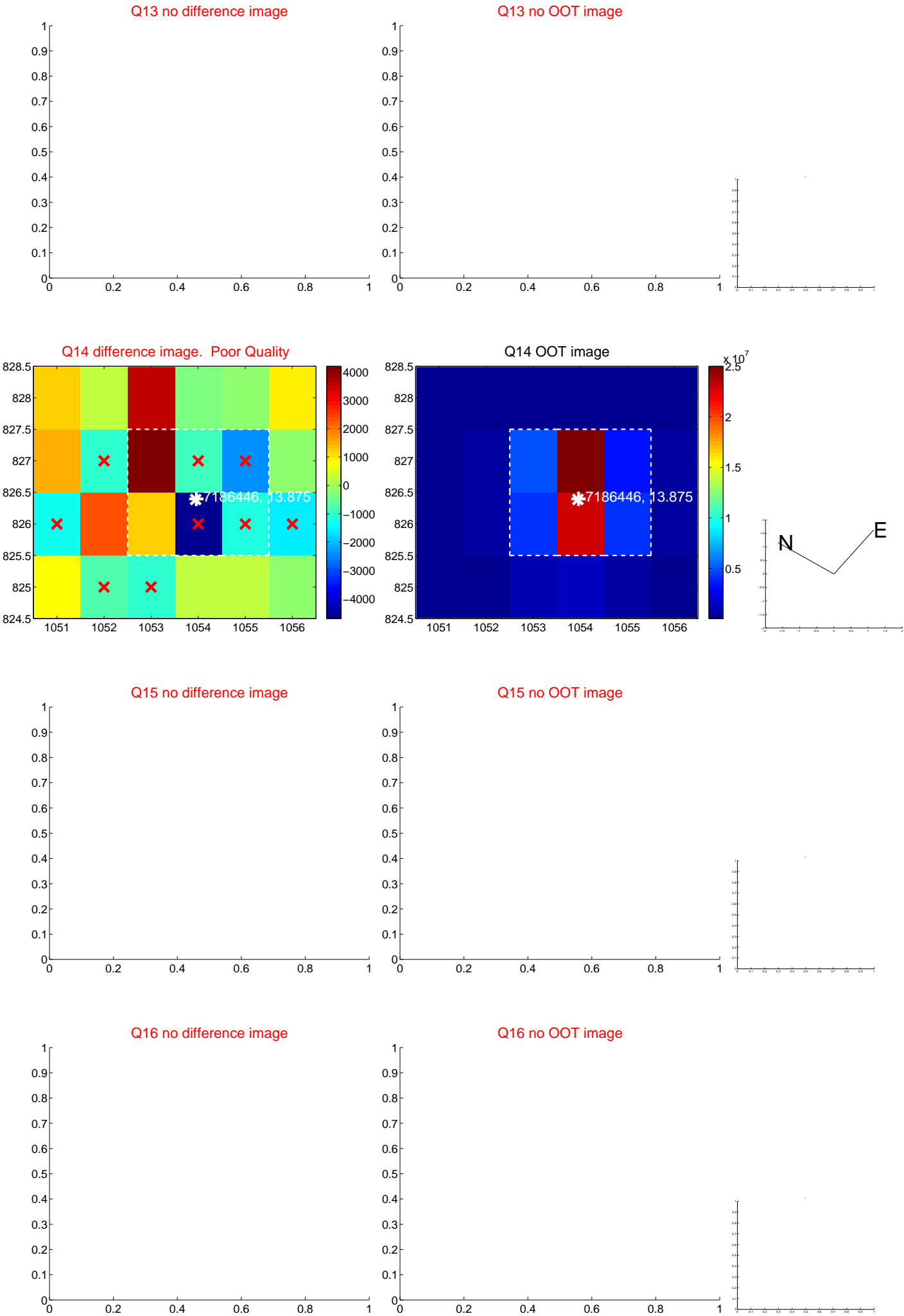
Q12 no difference image



Q12 no OOT image



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



Q14 difference image. Poor Quality

Q14 OOT image

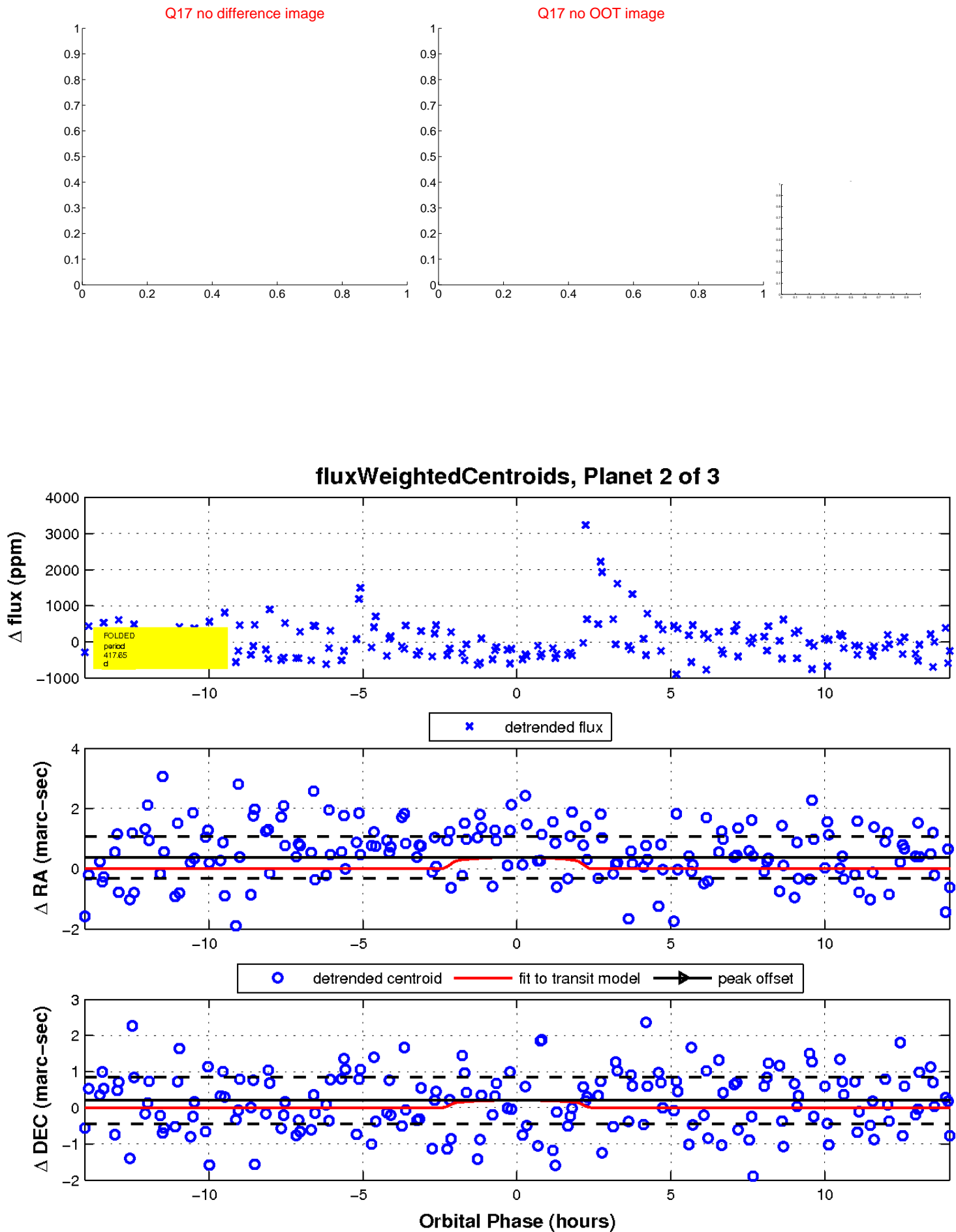
Q15 no difference image

Q15 no OOT image

Q16 no difference image

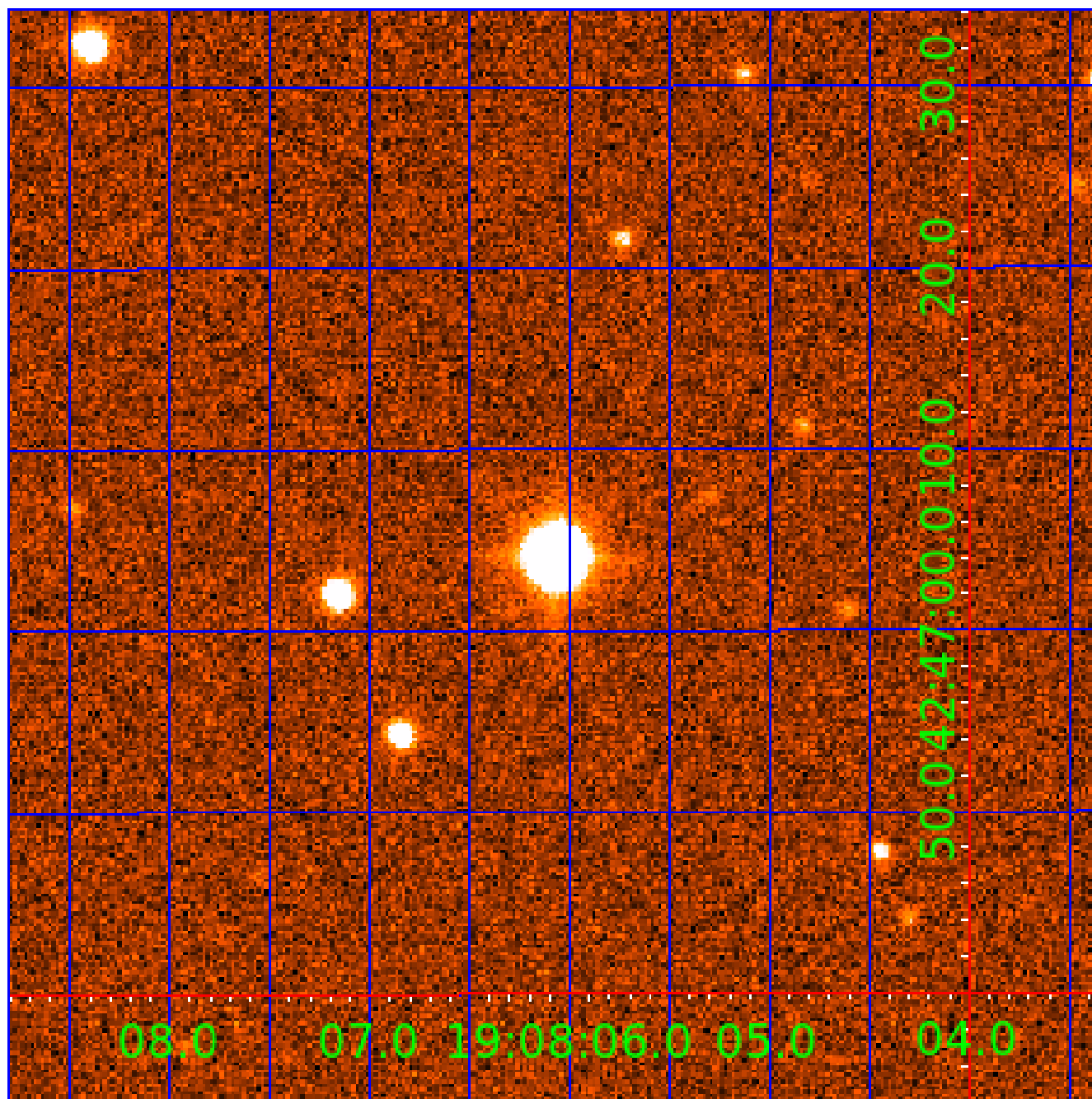
Q16 no OOT image

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



UKIRT Image

Declination



KIC 007186446

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})
007186446-01	OBS	No	417.642097	299.373033	486.5	6.624	9.8	5.8	0.64	4374	1.40	0.15
007186446-02	OBS	No	417.645134	525.888920	579.2	4.761	8.8	7.4	0.64	4374	1.77	0.15
007186446-03	OBS	No	505.099502	510.391897	677.6	6.170	13.7	7.0	0.64	4374	1.84	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007186446-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007186446-02	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—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007186446-03	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.

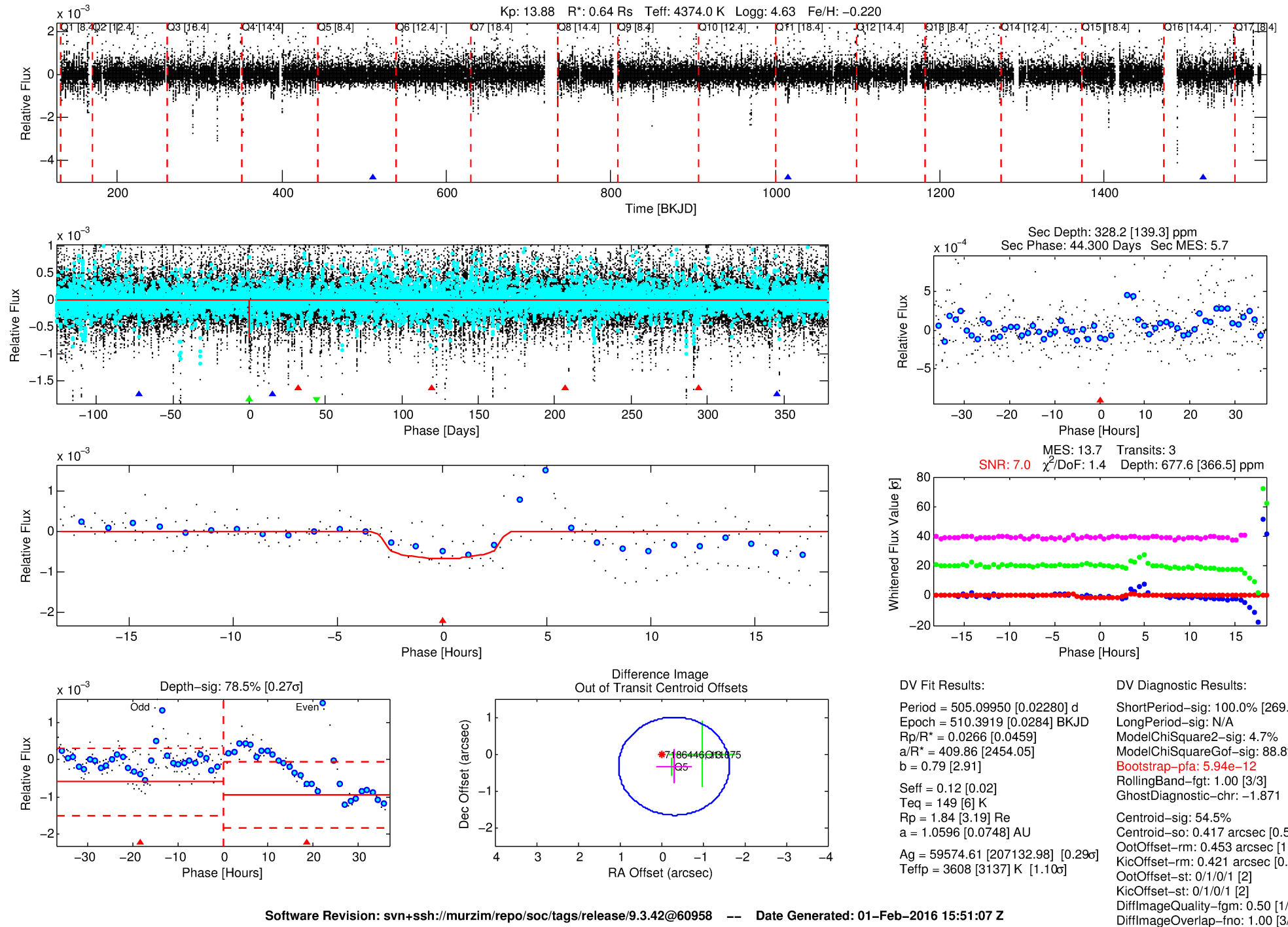
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007186446-03

No Significant Match Found

DV One-Page Summary

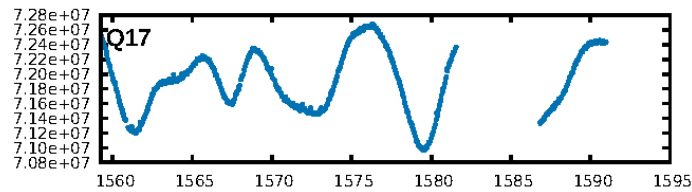
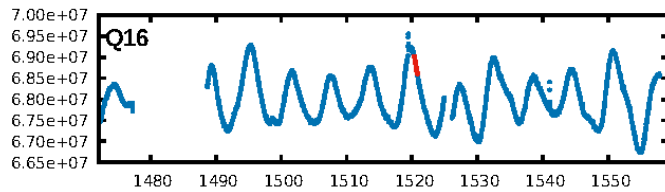
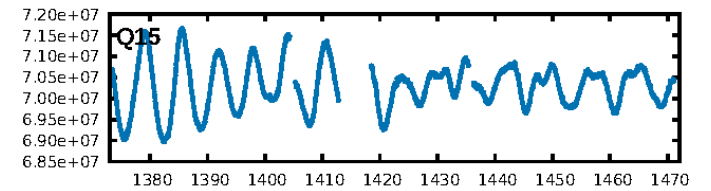
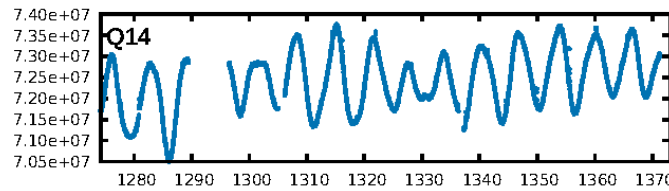
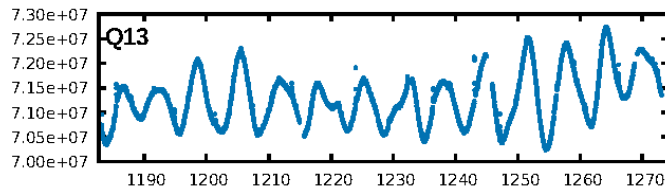
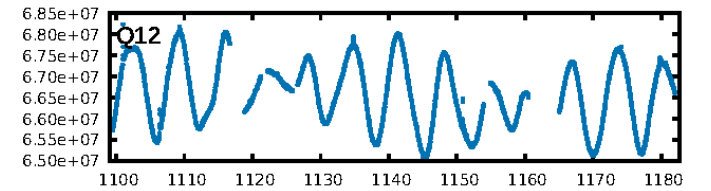
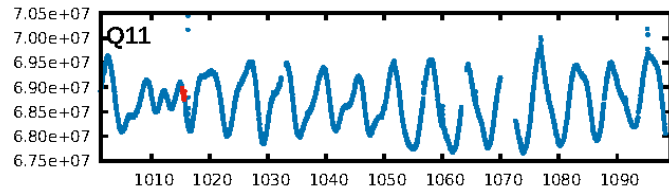
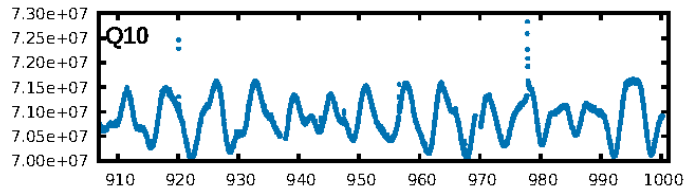
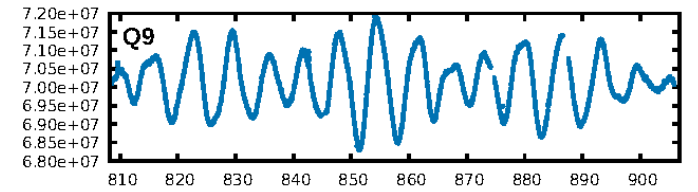
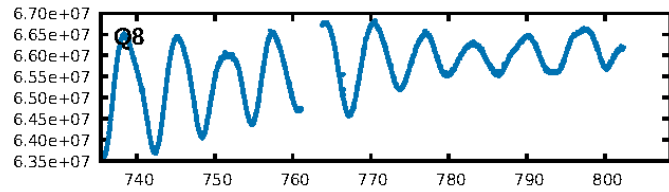
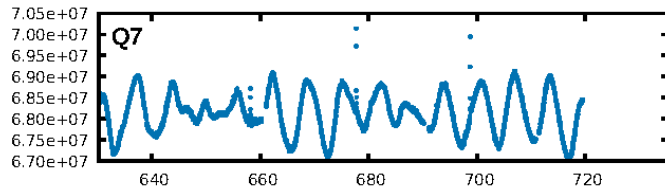
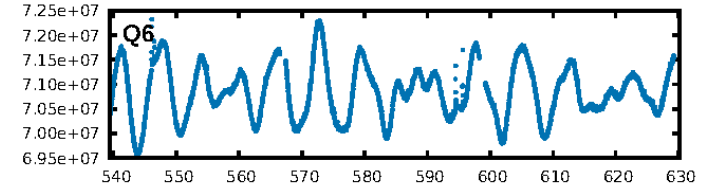
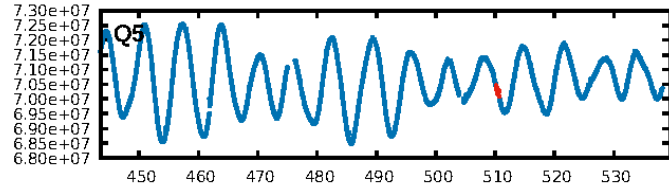
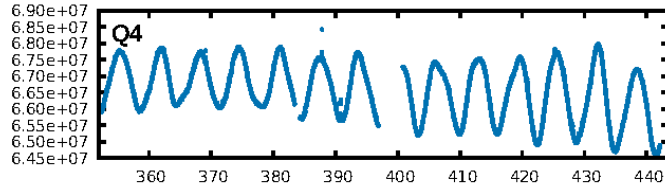
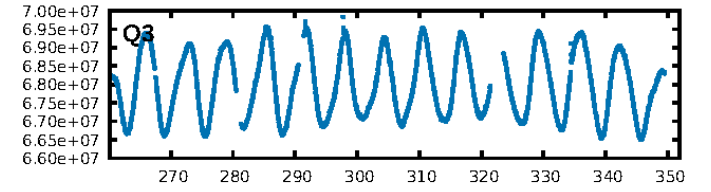
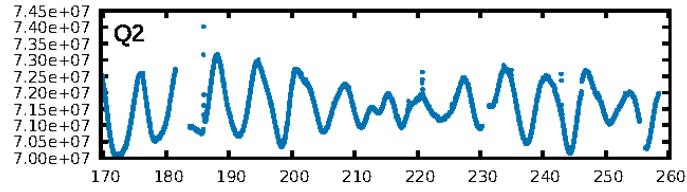
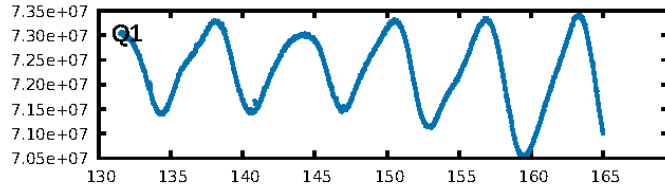
KIC: 7186446 Candidate: 3 of 3 Period: 505.100 d



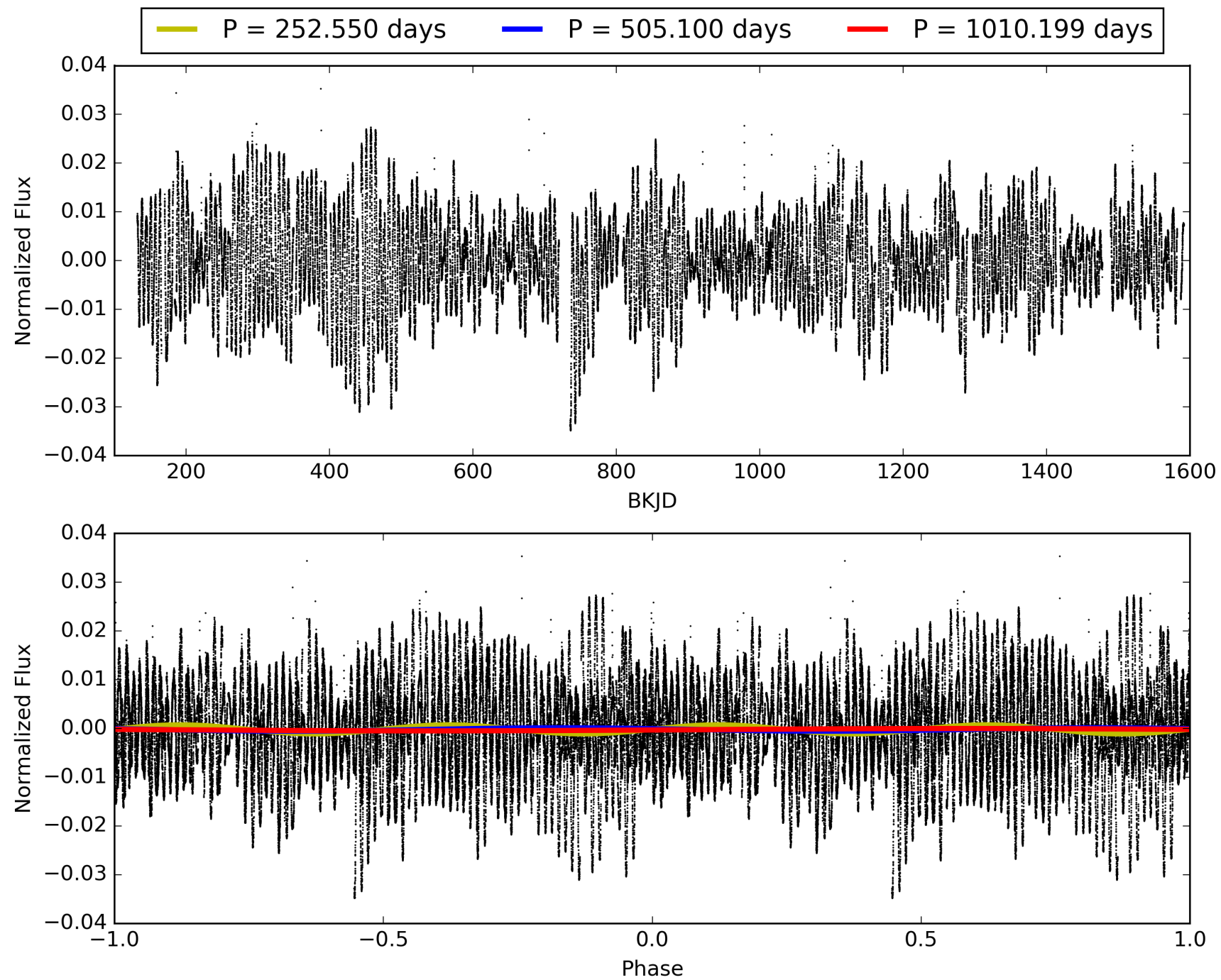
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 15:51:07 Z

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

TCE 007186446-03, PDC Light Curves

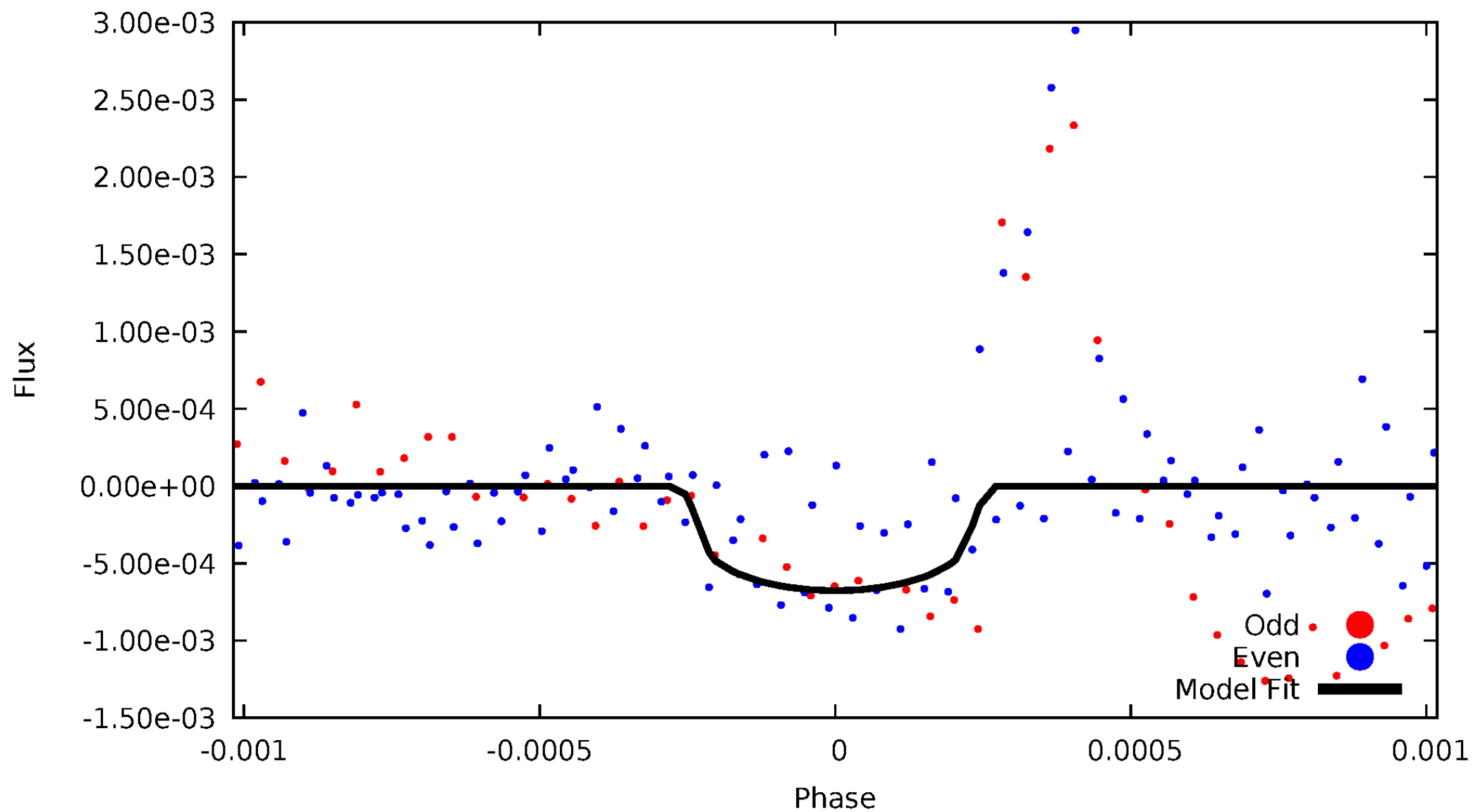


TCE 007186446-03



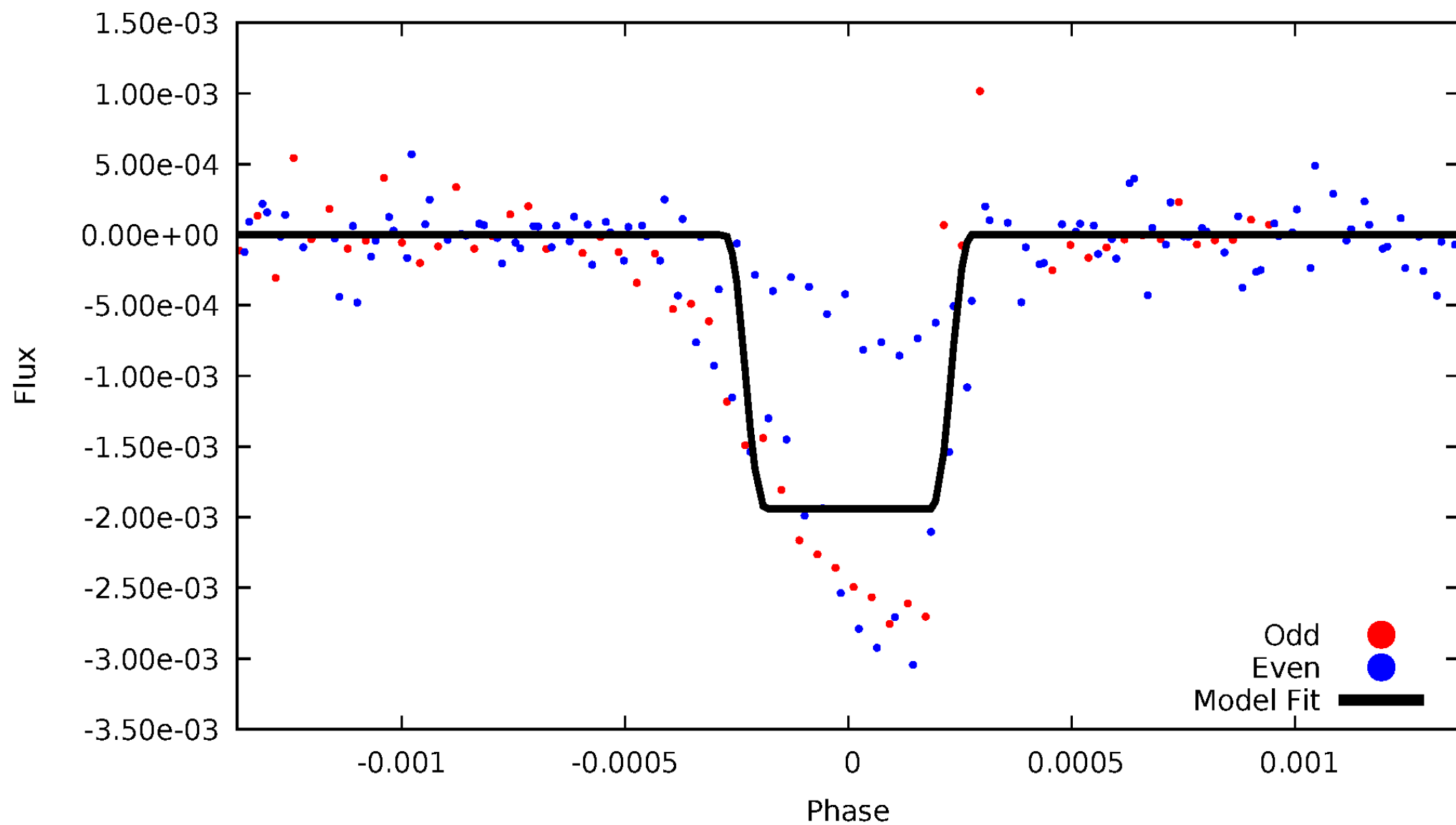
DV Odd/Even

TCE 007186446-03



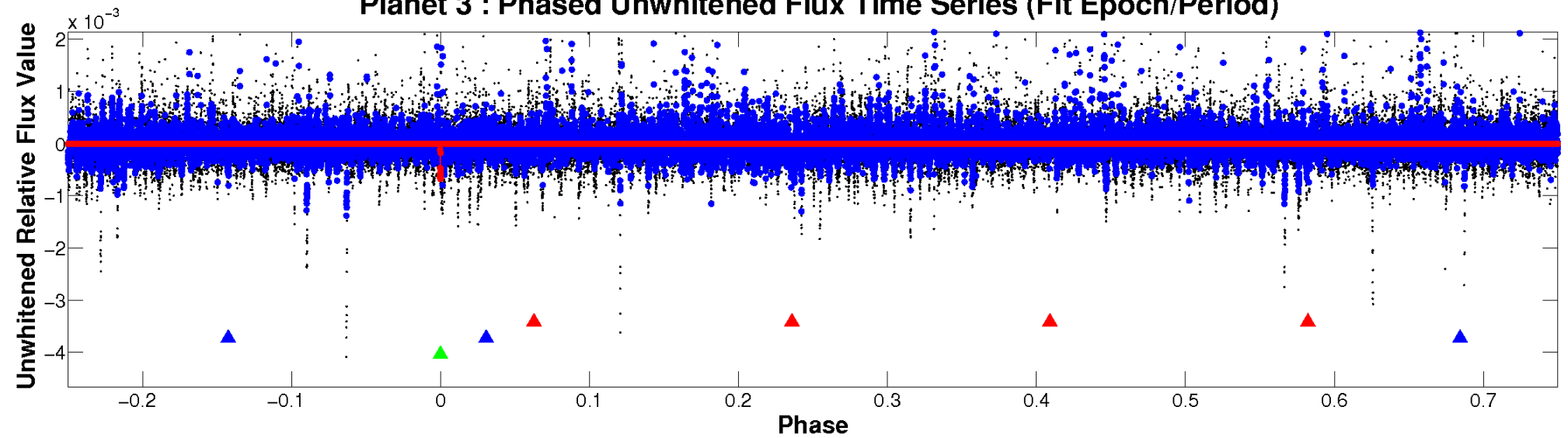
ALT Odd/Even

TCE 007186446-03

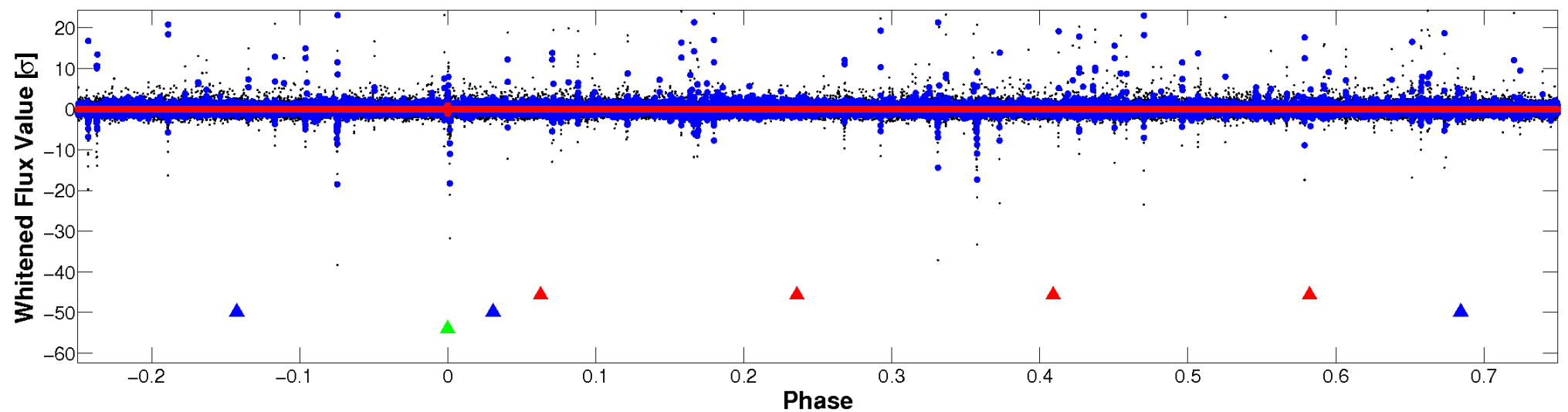


Non-Whitened Vs. Whitened Light Curve

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

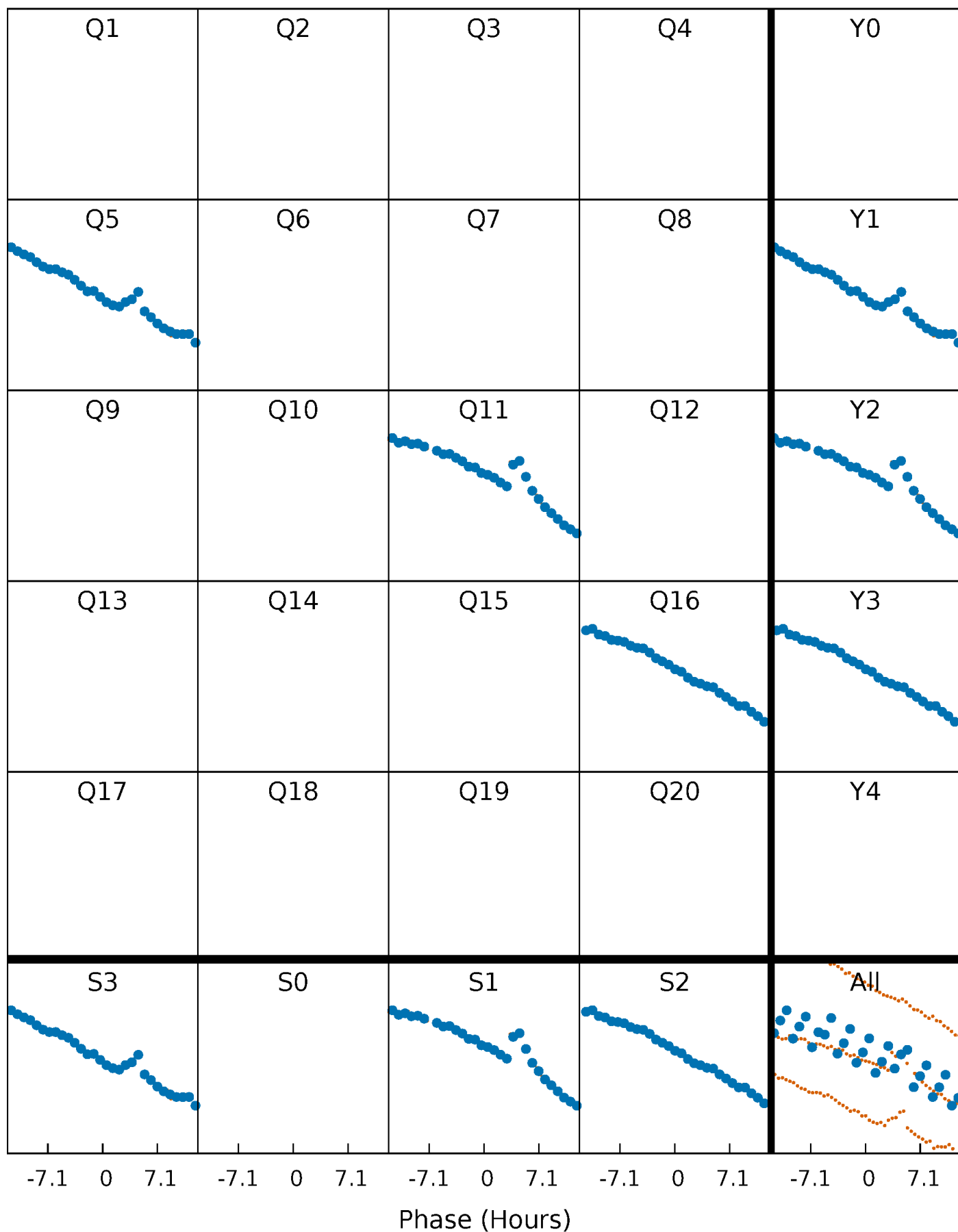


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



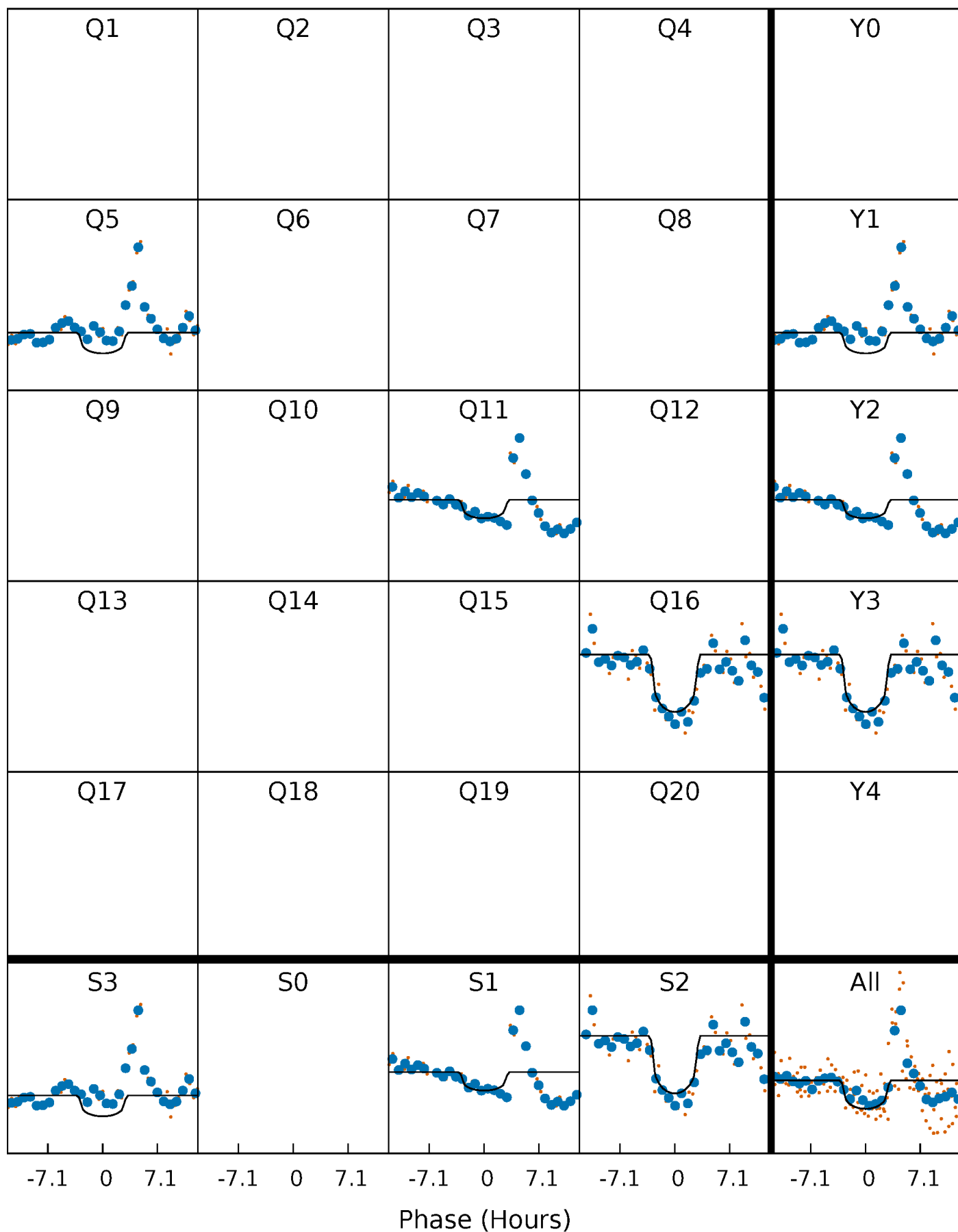
PDC Quarter-Phased Transit Curves

TCE 007186446-03 P=505.099502 Days $T_0=510.391898$ (BKJD)



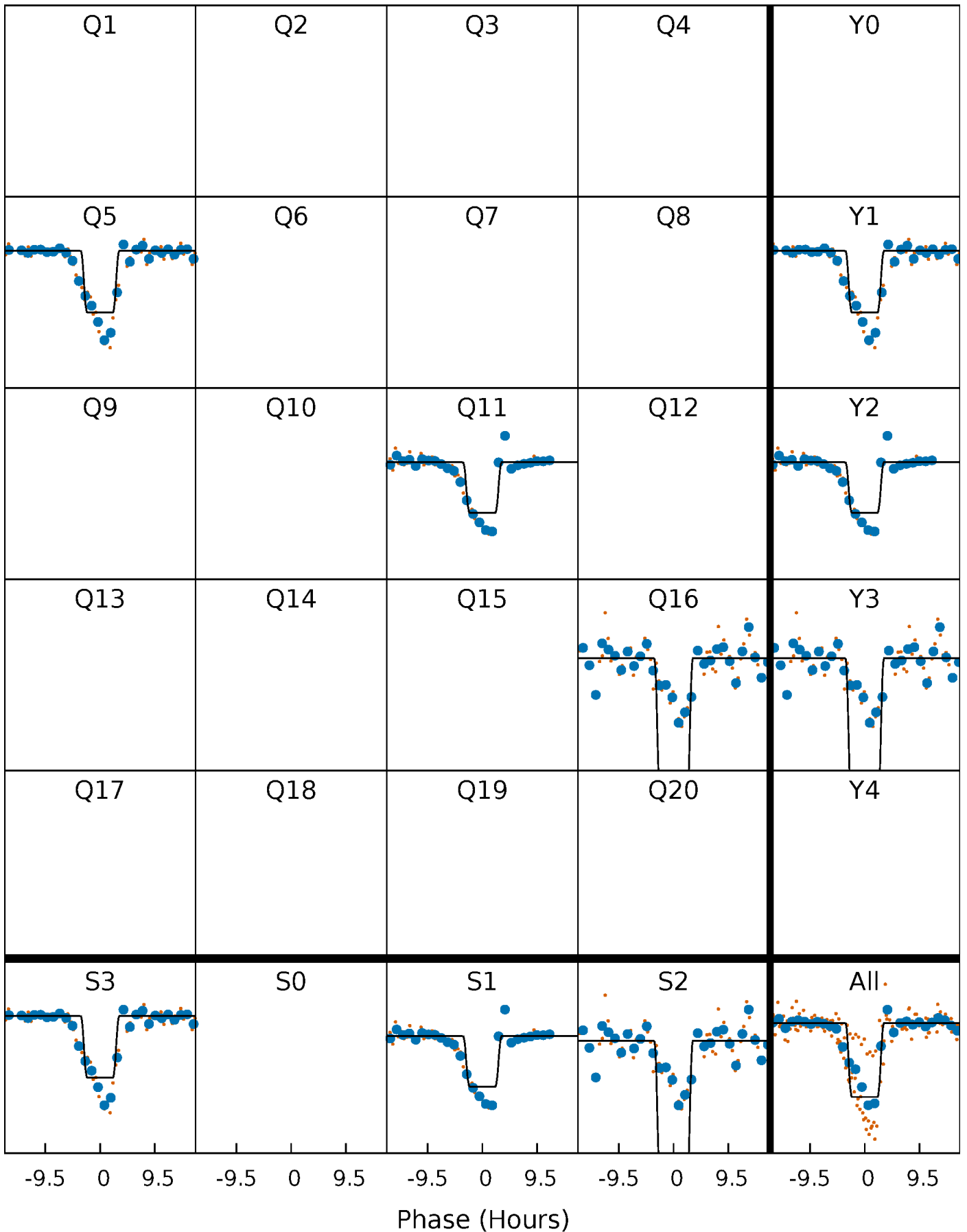
DV Quarter-Phased Transit Curves

TCE 007186446-03 $P=505.099502$ Days $T_0=510.391898$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

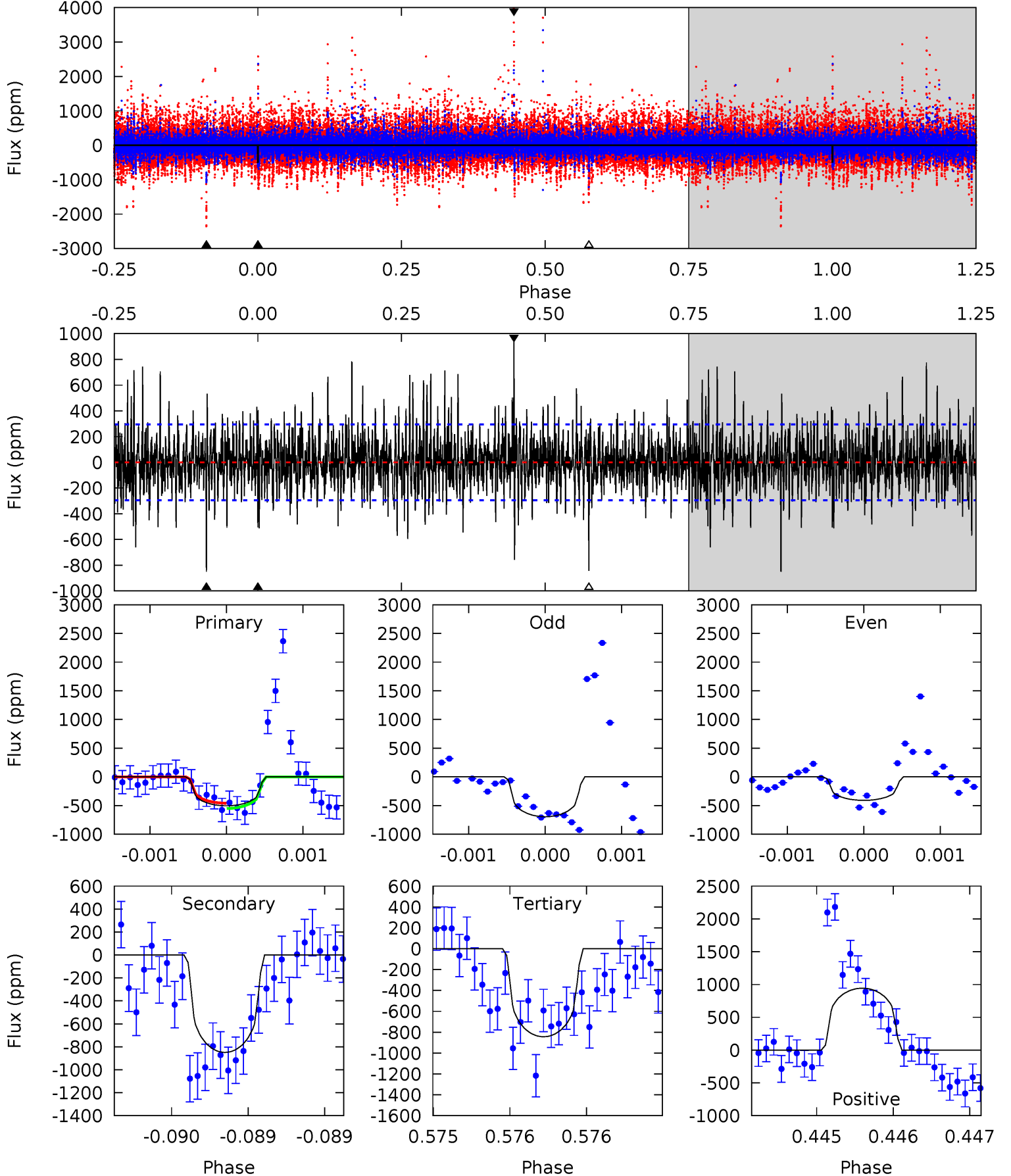
TCE 007186446-03 P=505.103981 Days $T_0=510.421825$ (BKJD)



DV Model-Shift Uniqueness Test

007186446-03, P = 505.099502 Days, E = 5.292396 Days

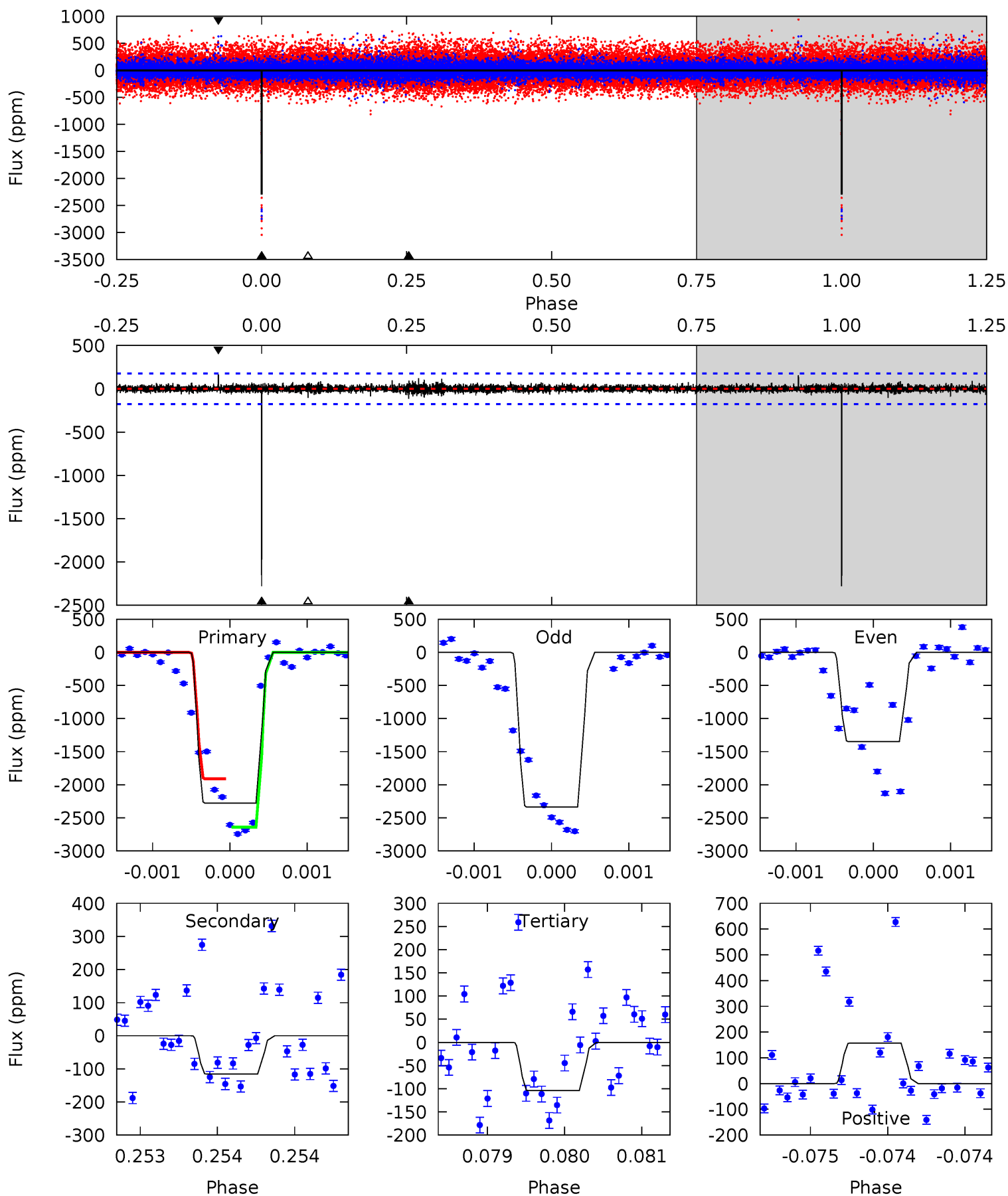
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.52	16.0	15.9	17.8	5.56	3.47	3.14	-6.39	-8.27	0.09	-1.78	1.98	0.73	0.53	0.87



Alt Model-Shift Uniqueness Test

007186446-03, P = 505.103981 Days, E = 5.317844 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
71.5	3.63	3.27	4.93	5.56	3.46	0.61	68.3	66.6	0.37	-1.30	16.7	0.77	0.06	0



Stellar Parameters For KIC 007186446

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4374^{+131}_{-131}	$4.626^{+0.053}_{-0.021}$	$-0.220^{+0.300}_{-0.300}$	$0.635^{+0.045}_{-0.055}$	$0.621^{+0.068}_{-0.050}$	$3.422^{+0.734}_{-0.367}$
	+3%/-3%	+1%/-0%	+136%/-136%	+7%/-9%	+11%/-8%	+21%/-11%
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 007186446-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-849 ± 53	$3.08^{+2.47}_{-2.24}$	207^{+7}_{-7}	3784^{+2451}_{-665}	$56763^{+674137}_{-39166}$
Alt.	-116 ± 32	$3.66^{+2.73}_{-2.30}$	207^{+7}_{-7}	2649^{+873}_{-344}	5212^{+34291}_{-3522}

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 $A_{obs} \gg 1.0$

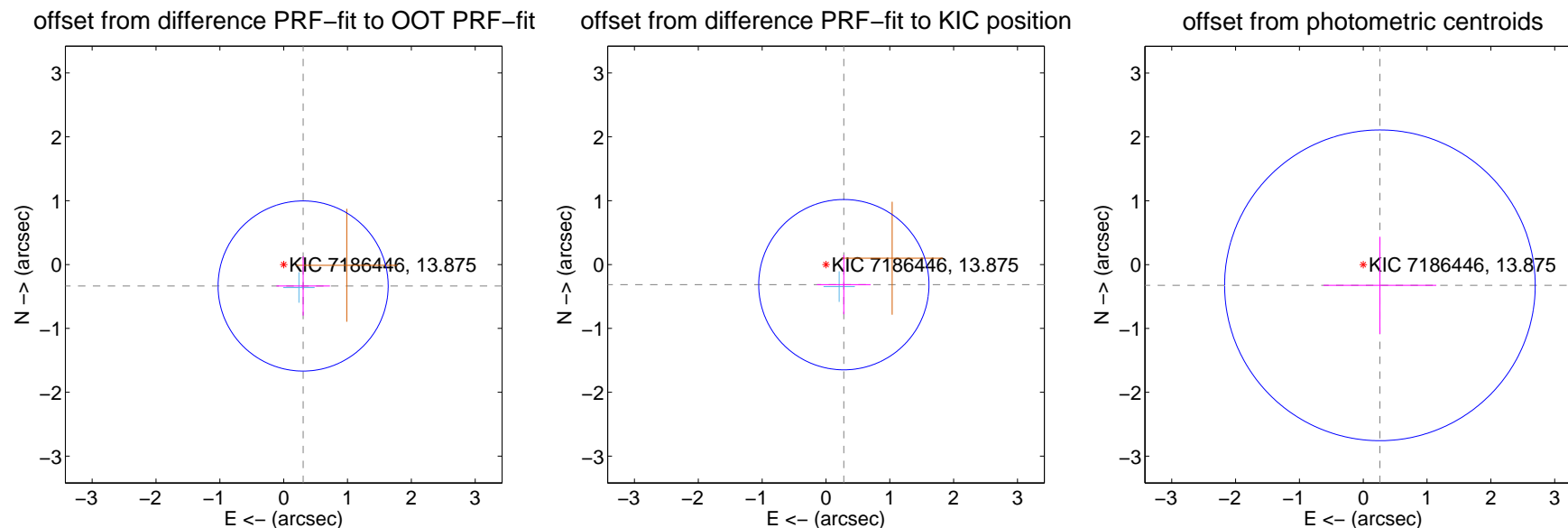
DV Centroid Data

Supplemental centroid analysis for 007186446-03. Kepler magnitude: 13.88. Transit SNR 7.04

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.453 ± 0.444	1.02	-0.305 ± 0.419	-0.336 ± 0.463
PRF-fit source offset from KIC position	0.421 ± 0.444	0.95	-0.280 ± 0.419	-0.315 ± 0.463
photometric centroid source offset	0.42 ± 0.81	0.51	-0.26 ± 0.88	-0.32 ± 0.76

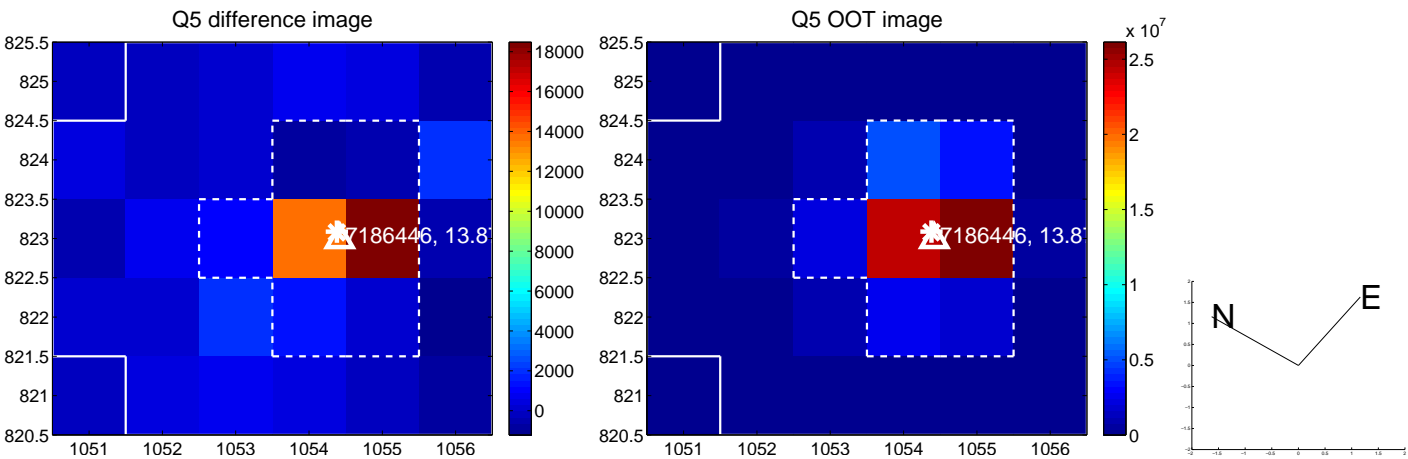


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

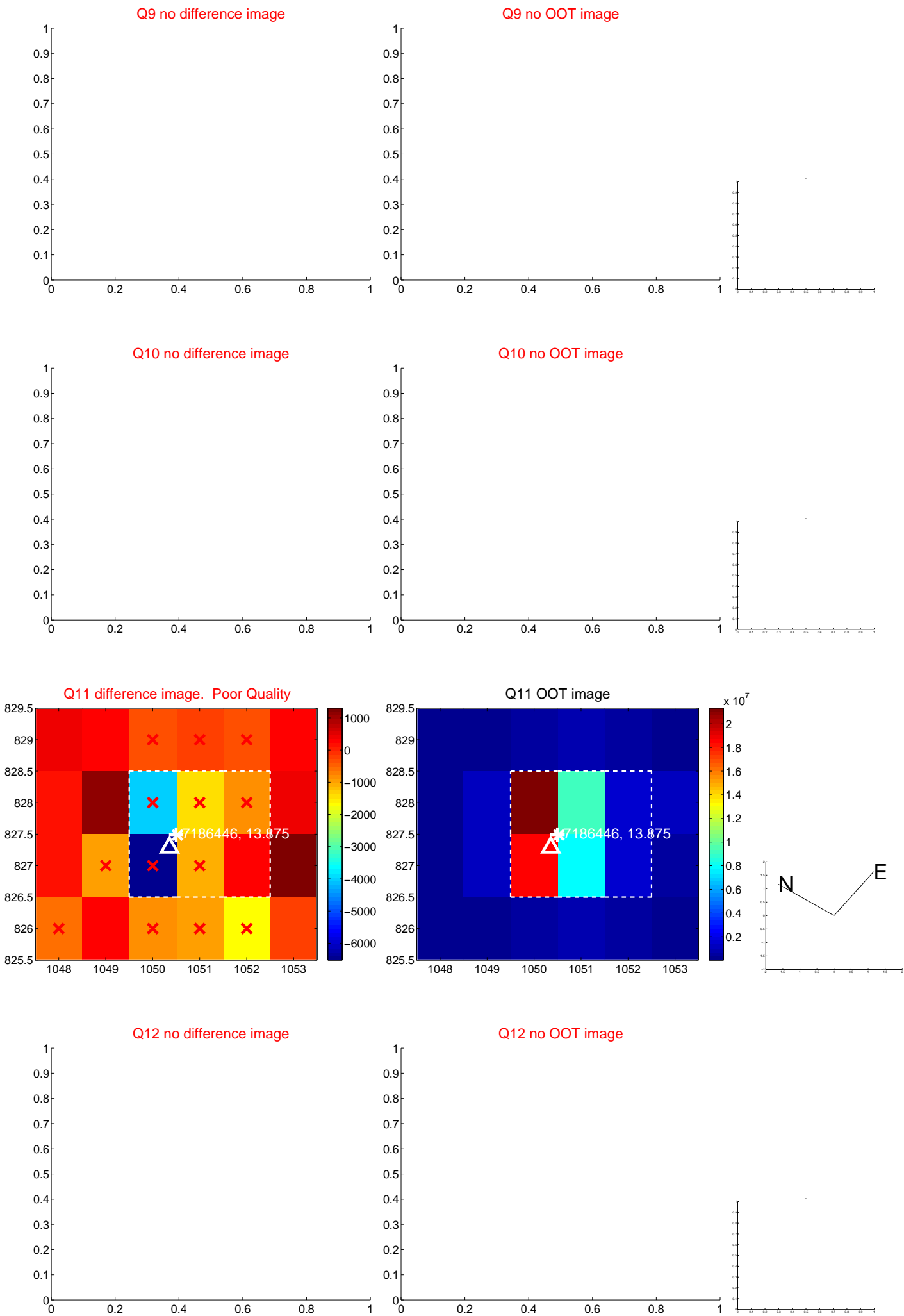
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



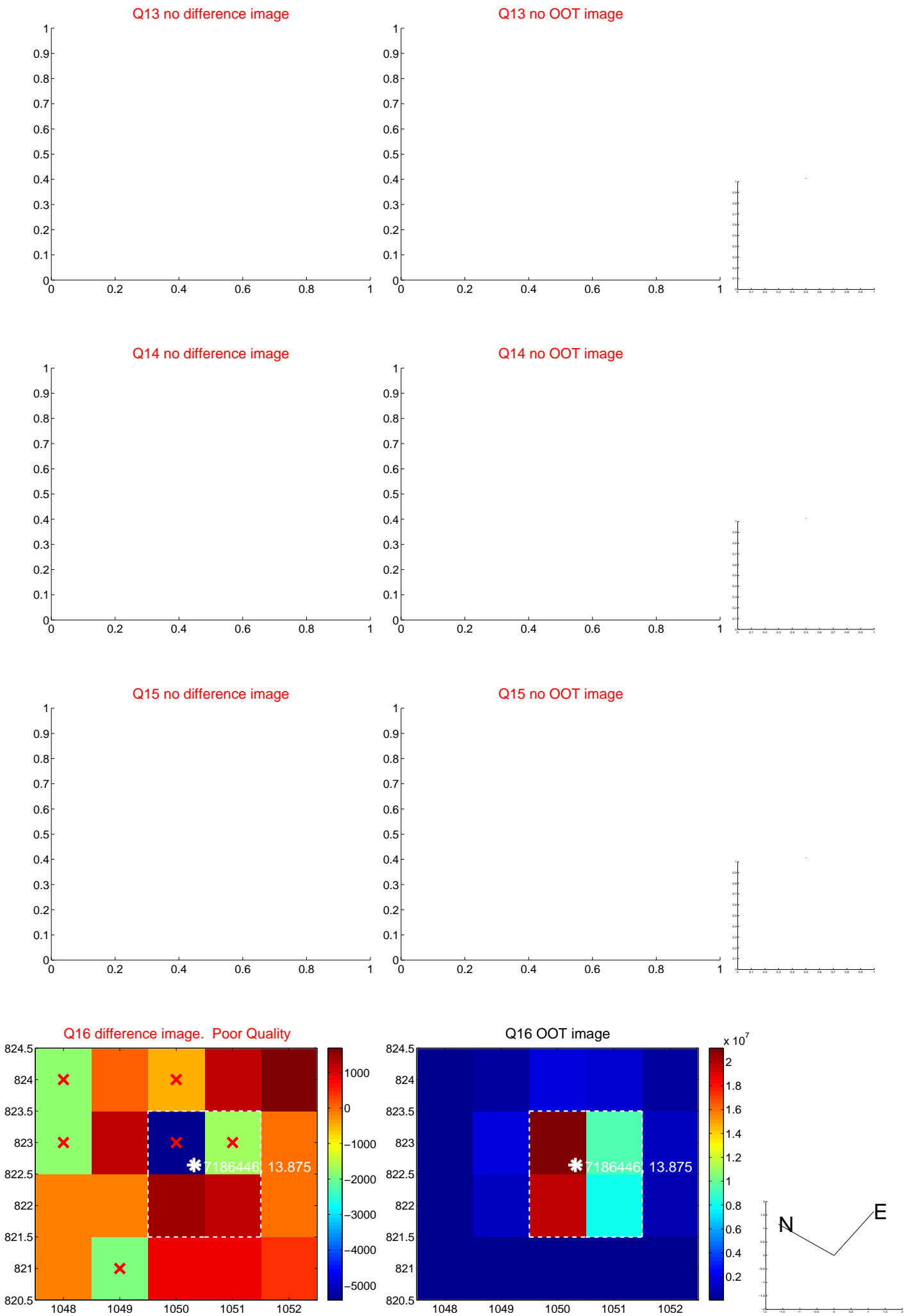
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



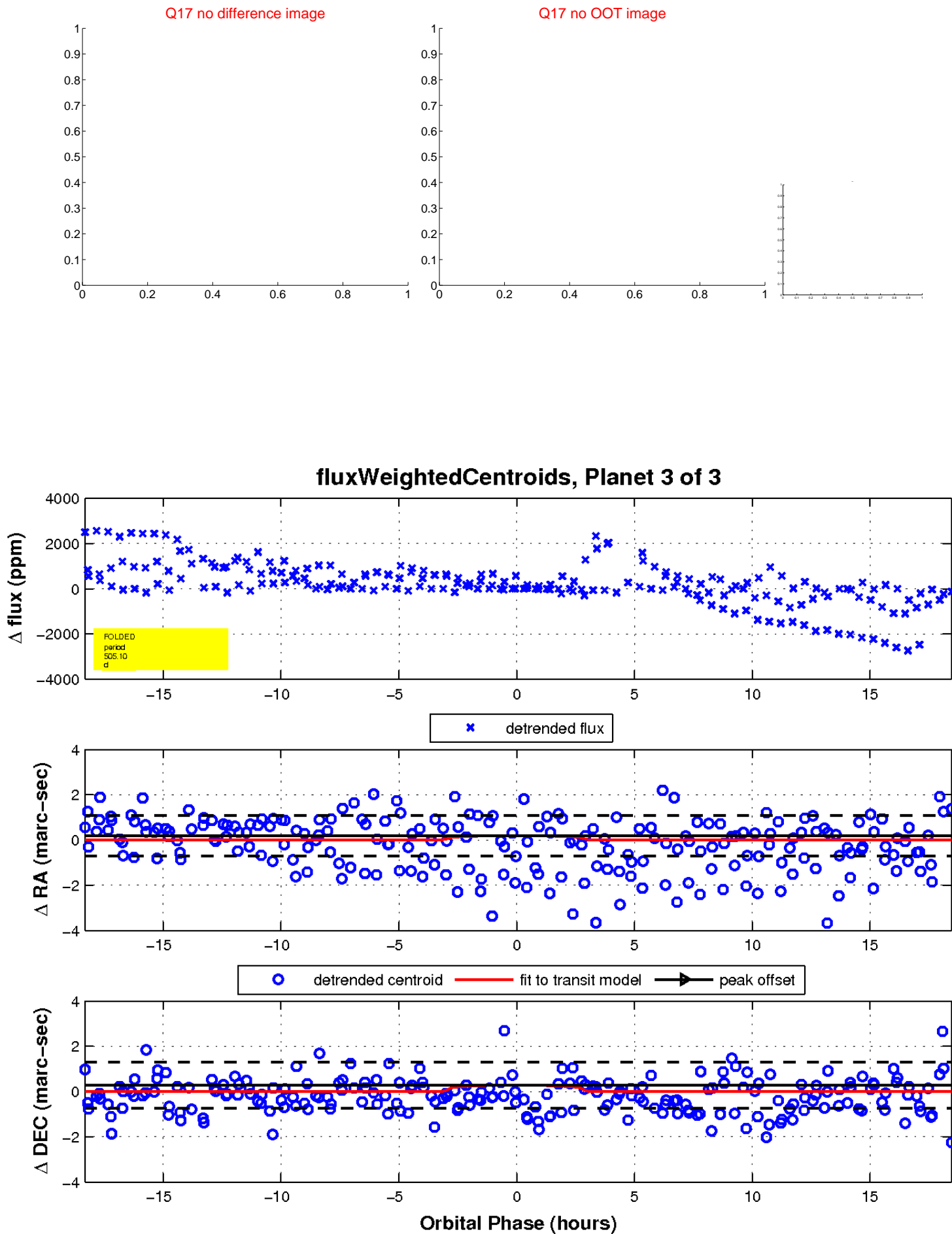
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

