

KIC 007672492

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})
007672492-01	OBS	No	573.815232	358.912677	1408.8	5.000	33.2	-1.0	1.89	7478	7.13	4.08
007672492-02	OBS	No	413.067417	274.207403	7724.7	8.978	27.3	6.5	1.89	7478	29.52	6.32
007672492-03	OBS	No	486.238196	407.628858	10241.2	8.357	22.9	8.1	1.89	7478	33.75	5.09

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007672492-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_NOFITS
007672492-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007672492-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_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.

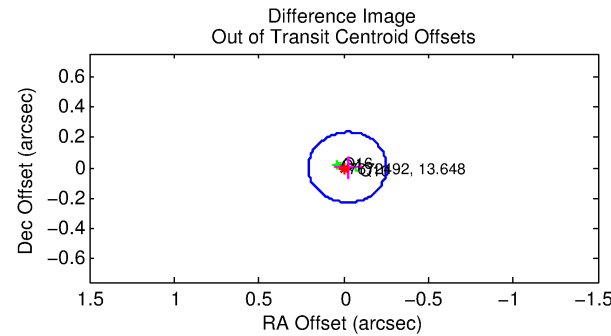
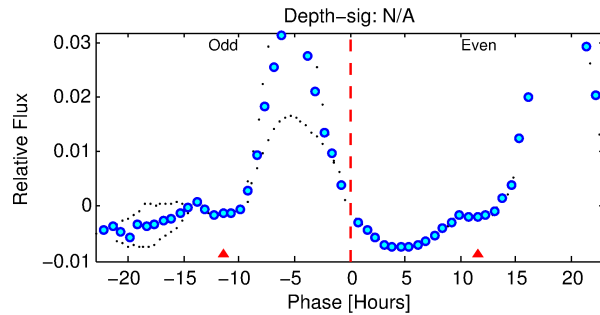
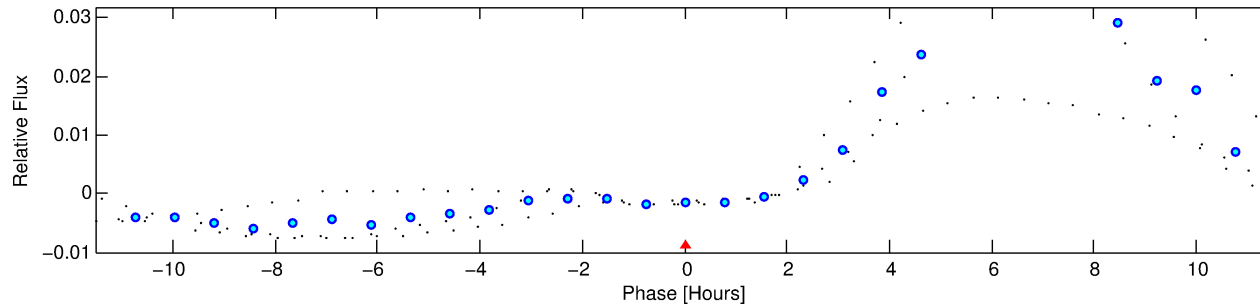
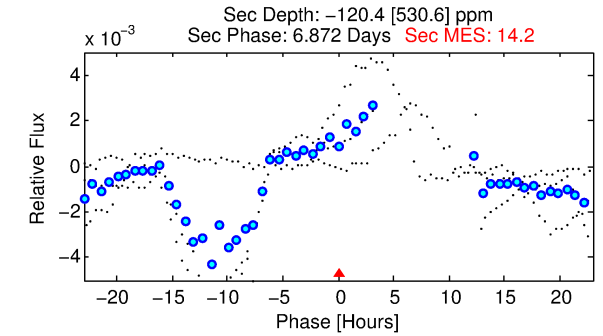
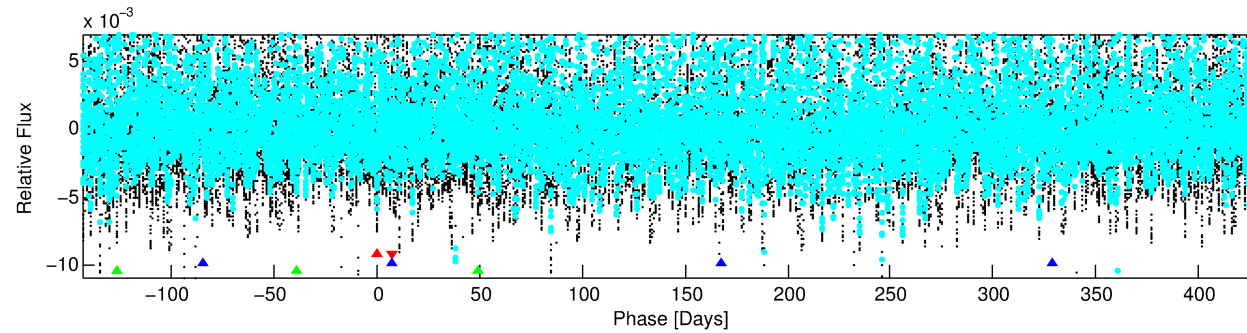
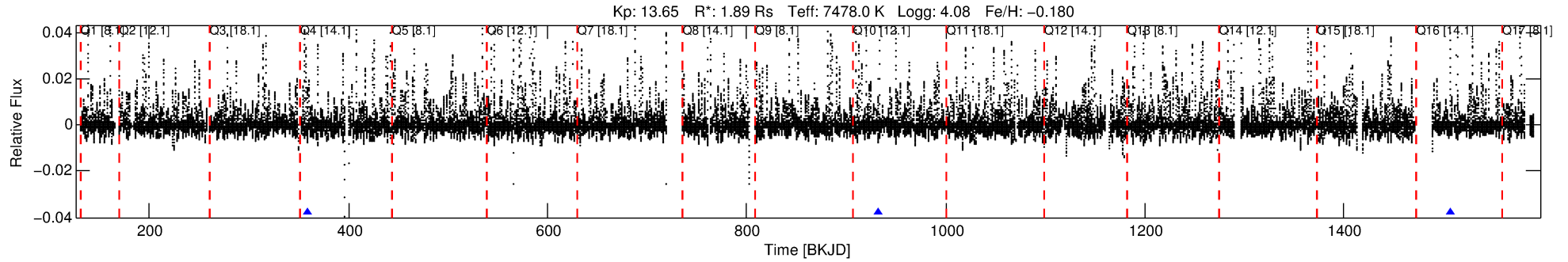
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007672492-01

No Significant Match Found

DV One-Page Summary

KIC: 7672492 Candidate: 1 of 3 Period: 573.815 d



TPS TCE Results:

Period = 573.81523 d
Epoch = 358.9127 BKJD

DV fit results are unavailable

DV Diagnostic Results:

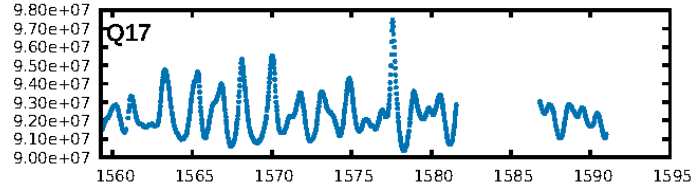
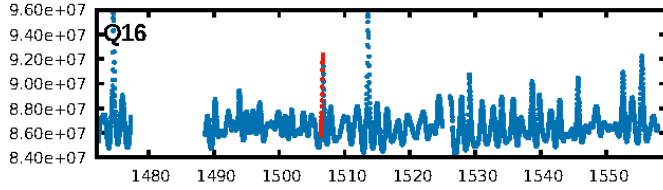
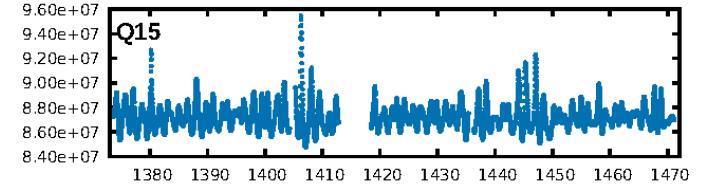
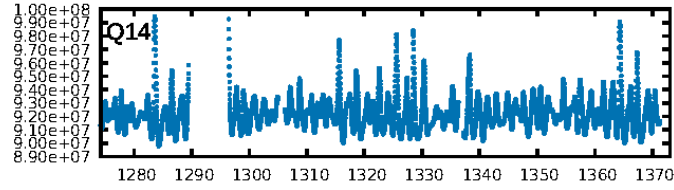
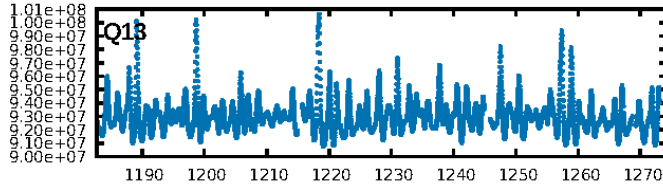
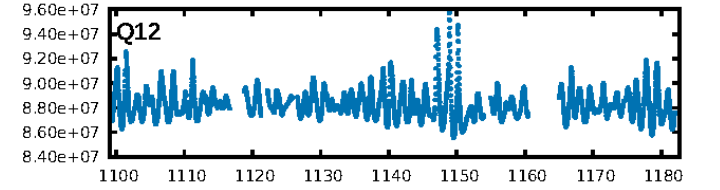
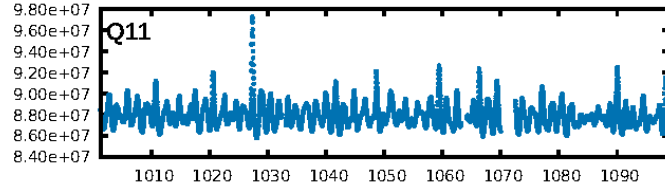
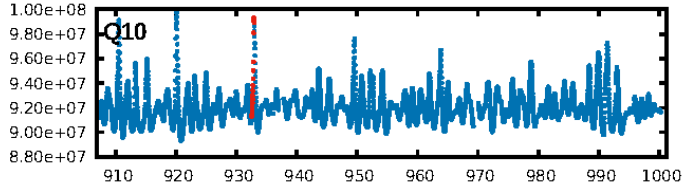
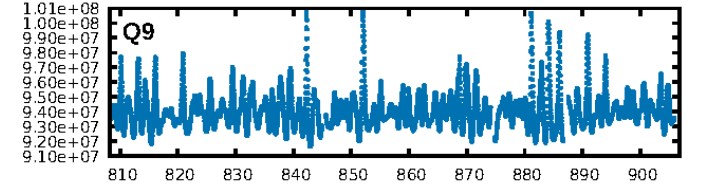
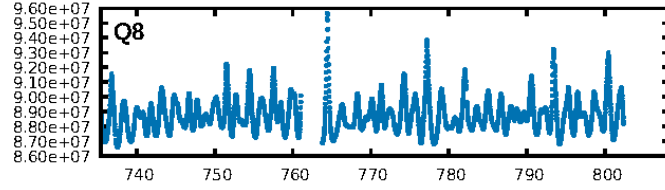
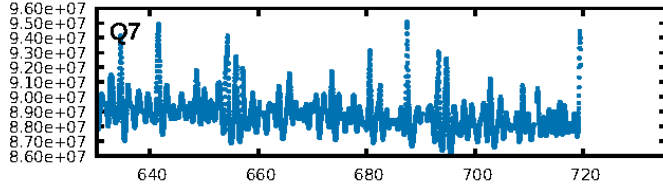
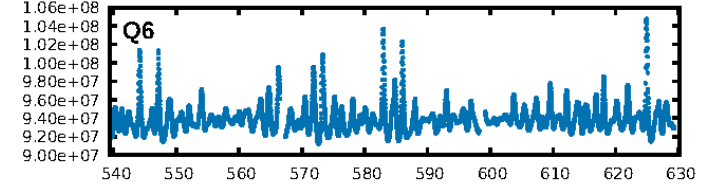
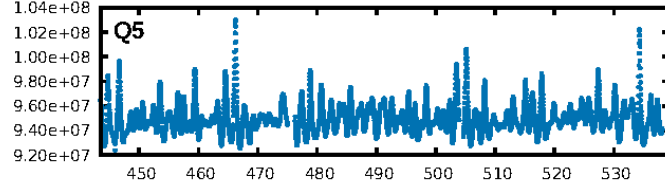
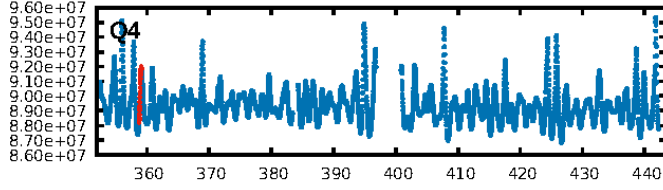
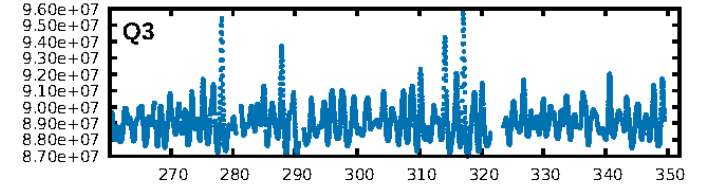
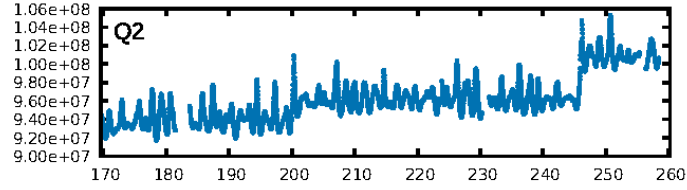
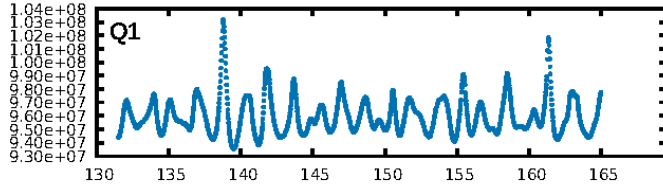
ShortPeriod-sig: 100.0% [215.82 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.55e-12
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -3.045

Centroid-sig: 97.9%
Centroid-so: 0.087 arcsec [0.40 σ]
OotOffset-rm: 0.023 arcsec [0.30 σ]
KicOffset-rm: 0.144 arcsec [1.37 σ]
OotOffset-st: 1/0/2/0 [3]
KicOffset-st: 1/0/2/0 [3]
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DiffImageOverlap-fno: 1.00 [3/3]

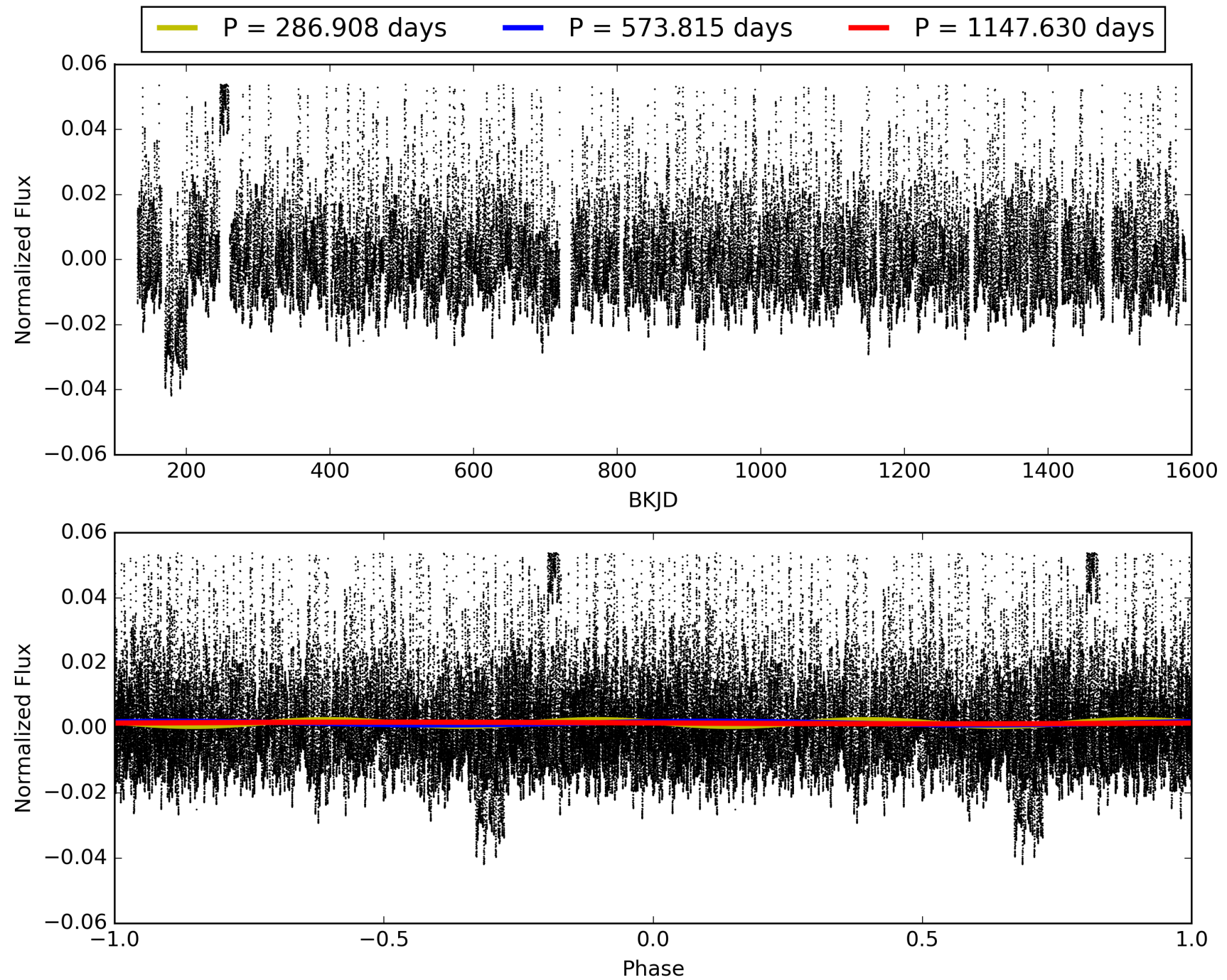
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:02:10 Z

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

TCE 007672492-01, PDC Light Curves

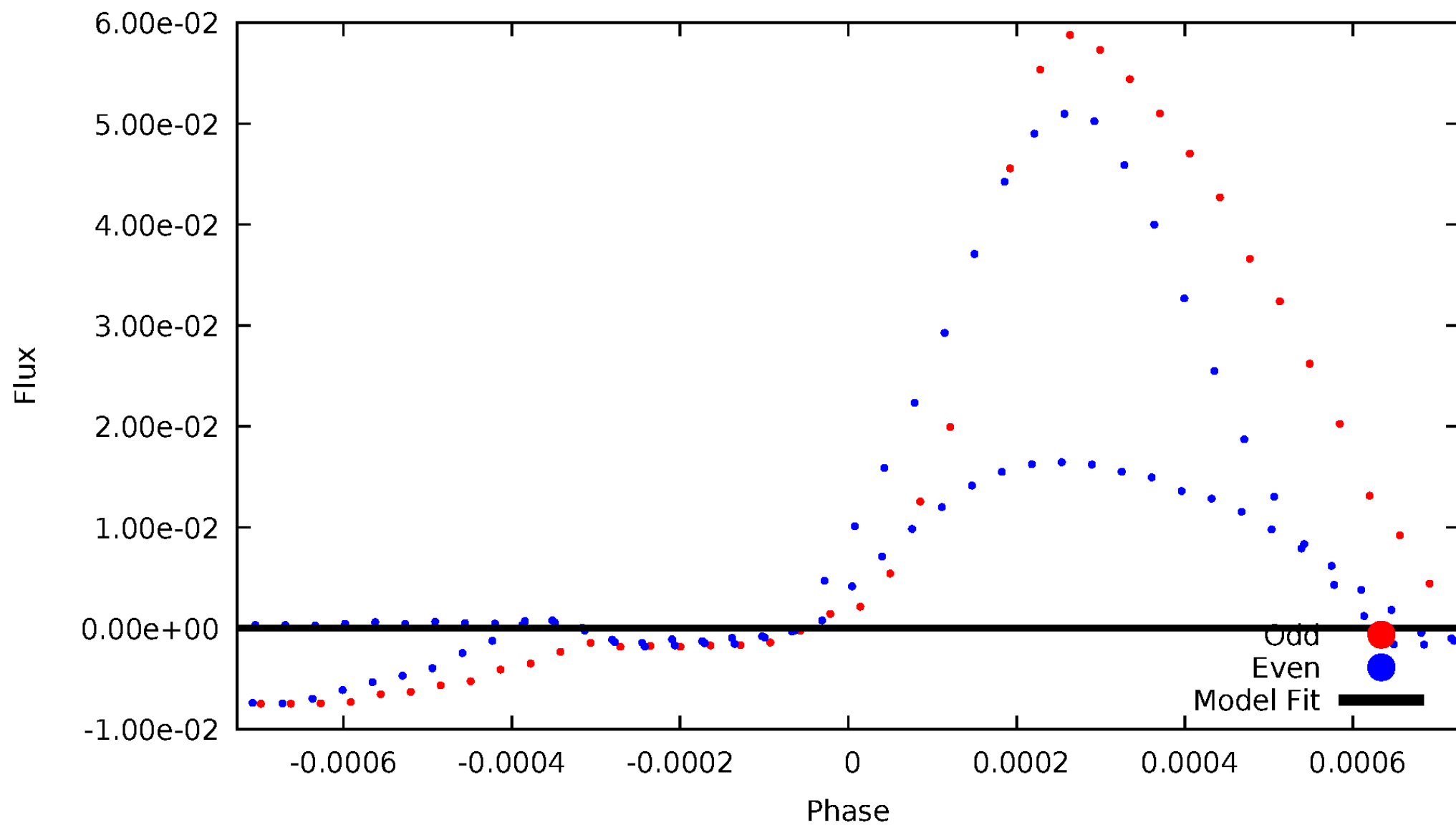


TCE 007672492-01



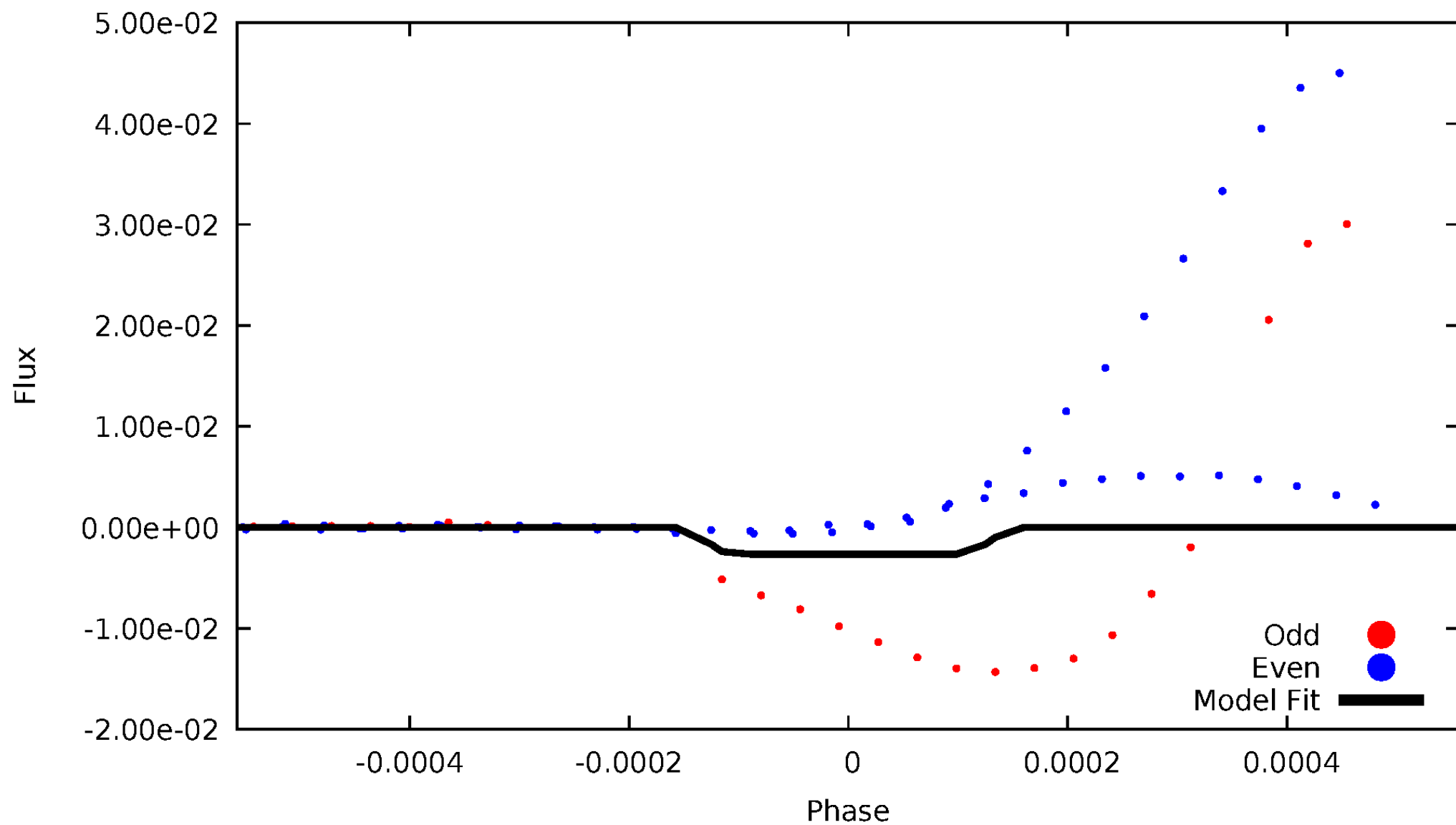
DV Odd/Even

TCE 007672492-01



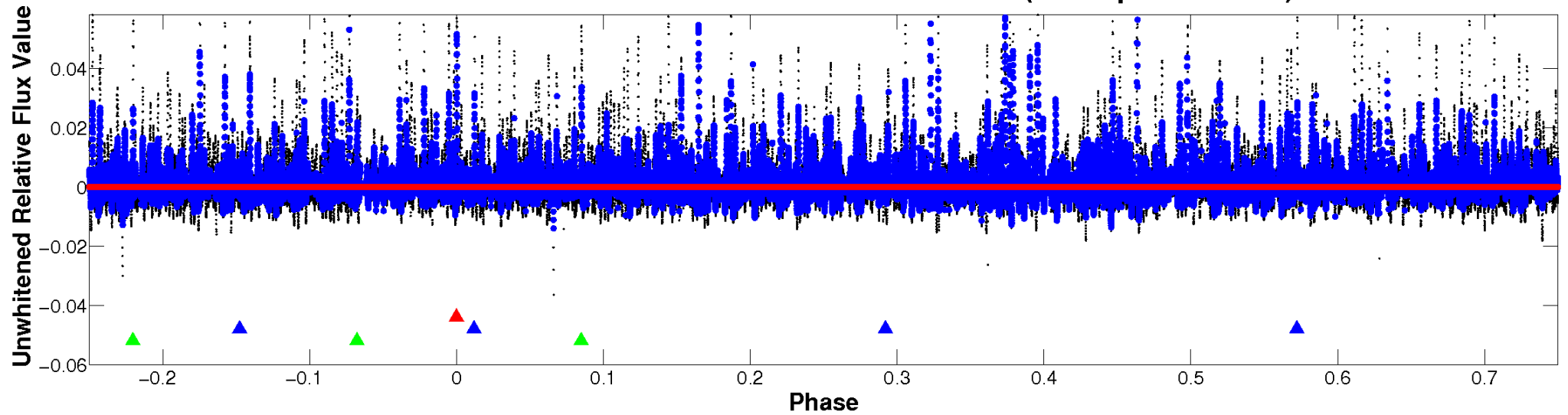
ALT Odd/Even

TCE 007672492-01



Non-Whitened Vs. Whitened Light Curve

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

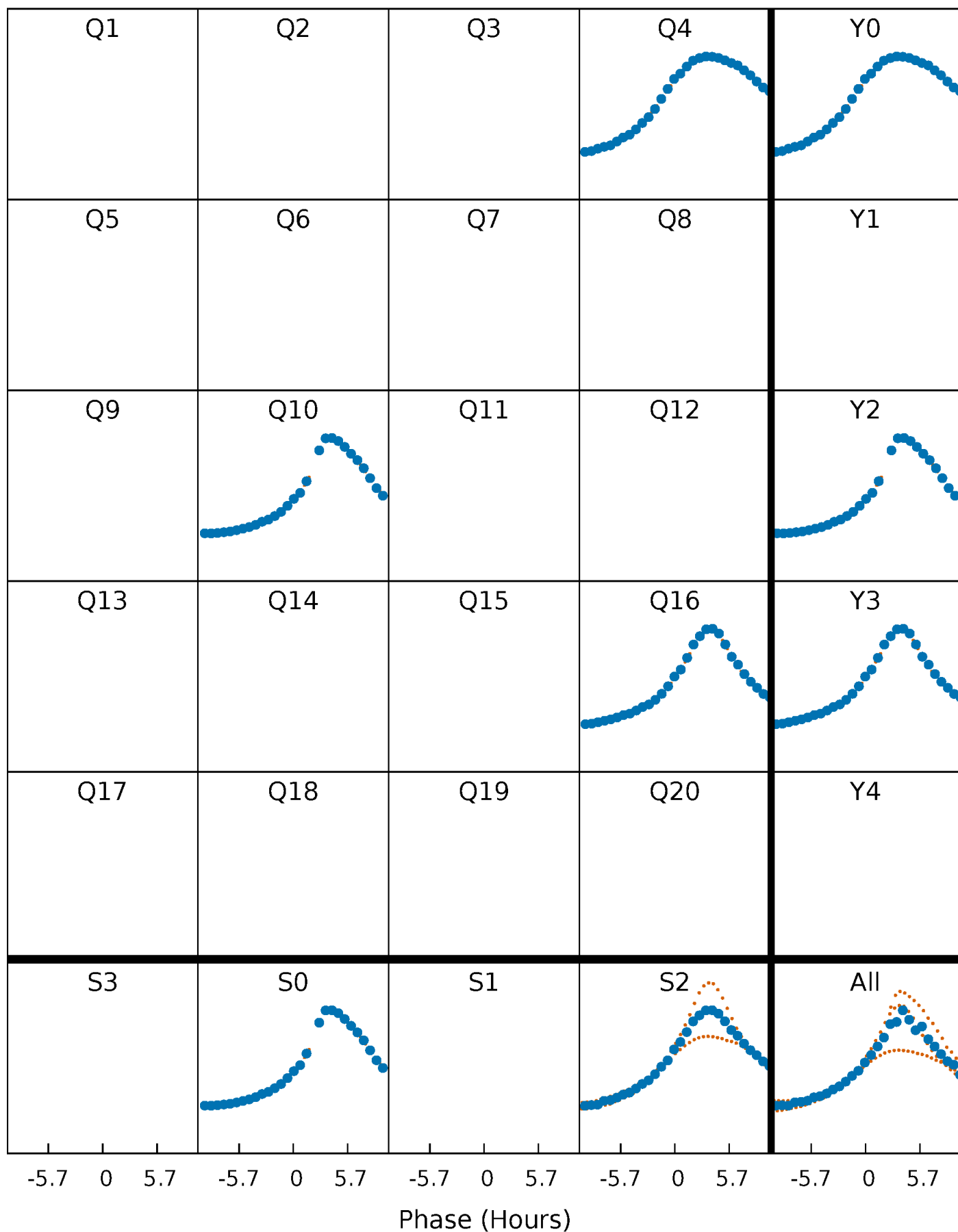


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



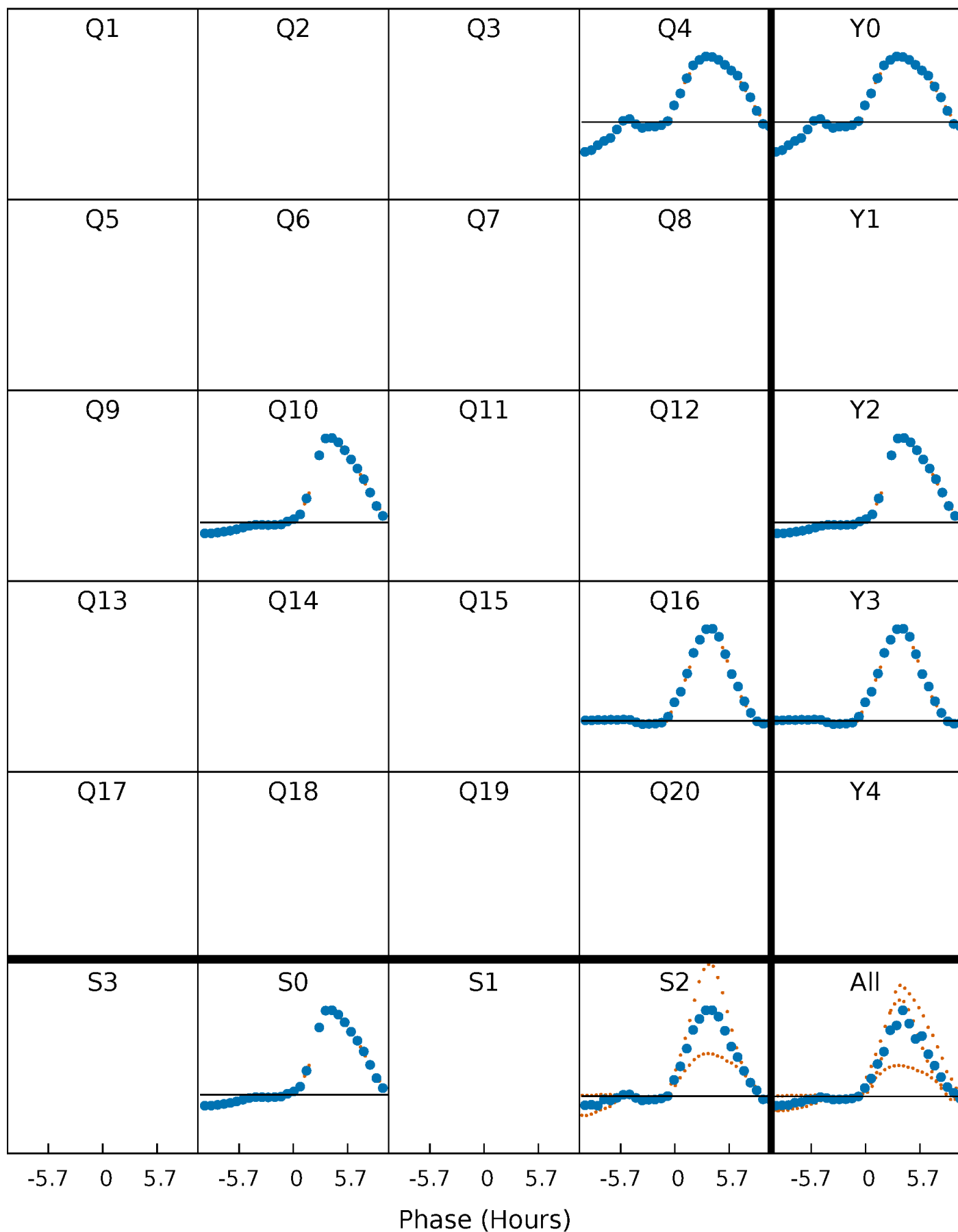
PDC Quarter-Phased Transit Curves

TCE 007672492-01 P=573.815232 Days $T_0=358.912677$ (BKJD)



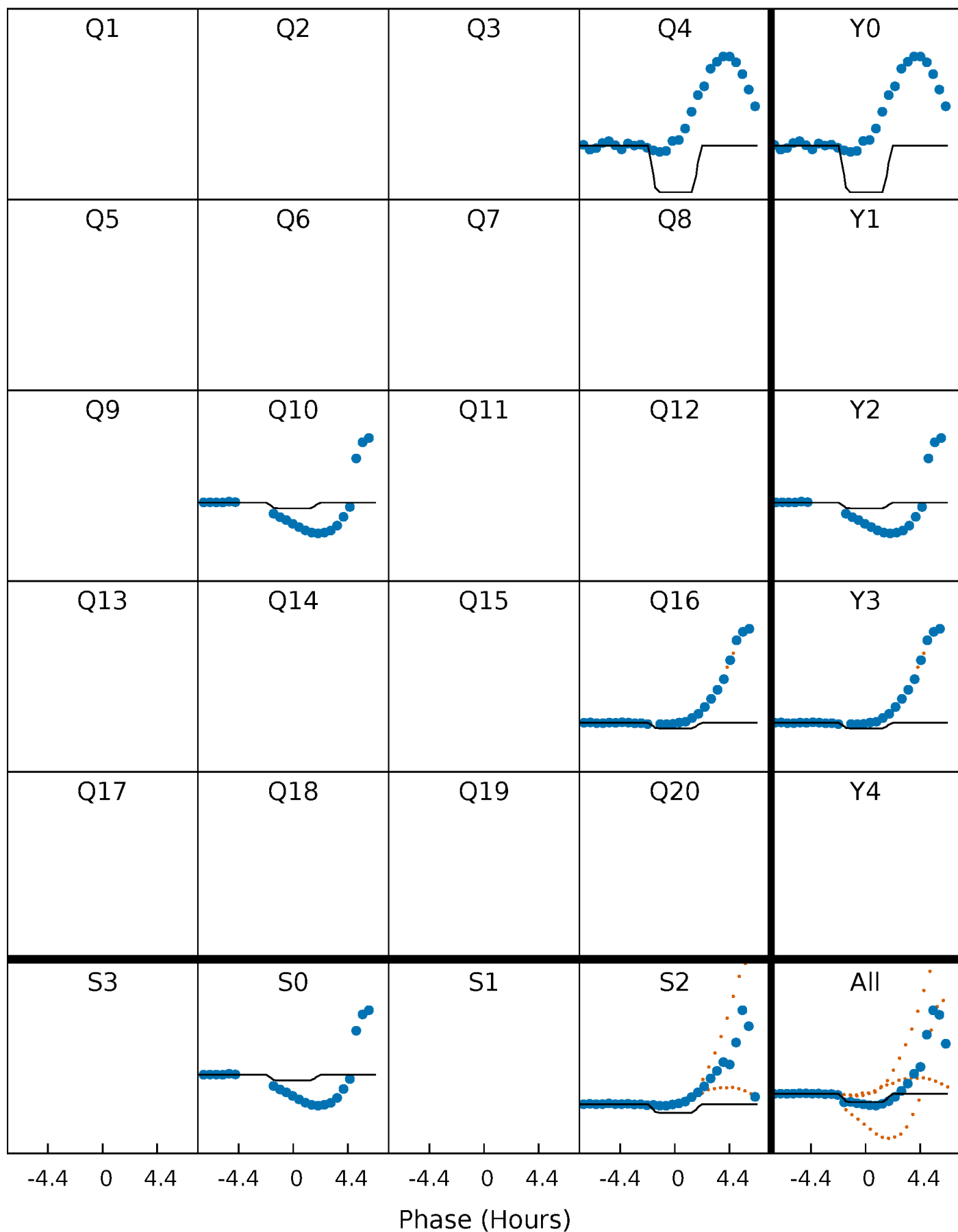
DV Quarter-Phased Transit Curves

TCE 007672492-01 P=573.815232 Days $T_0=358.912677$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

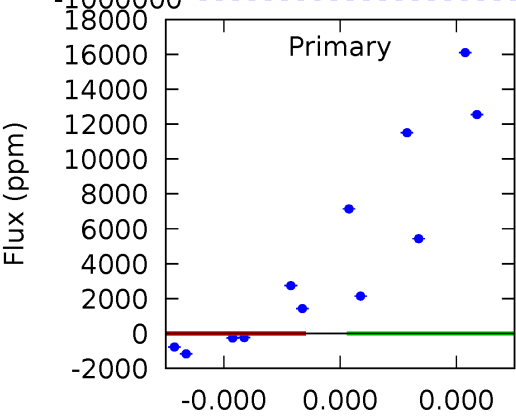
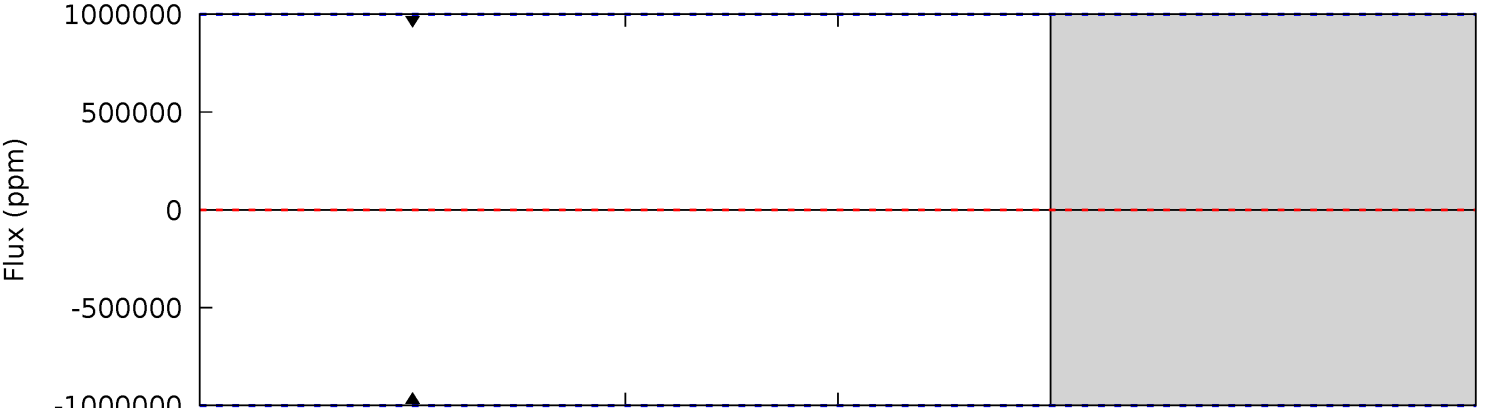
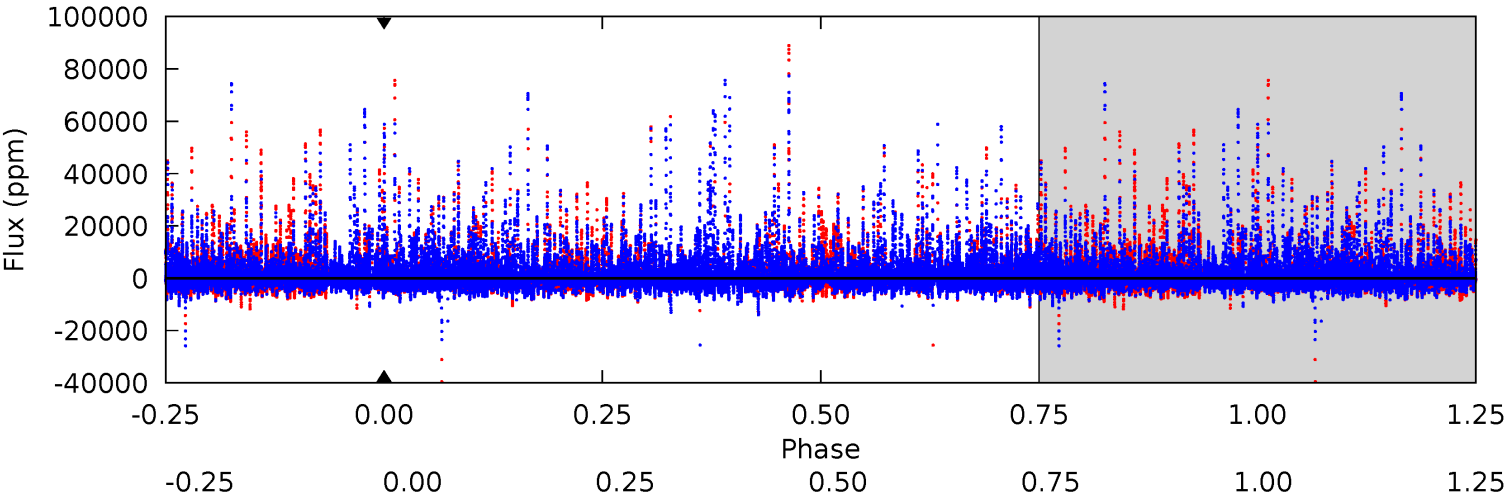
TCE 007672492-01 P=573.815232 Days $T_0=358.802986$ (BKJD)



DV Model-Shift Uniqueness Test

007672492-01, P = 573.815232 Days, E = 358.912677 Days

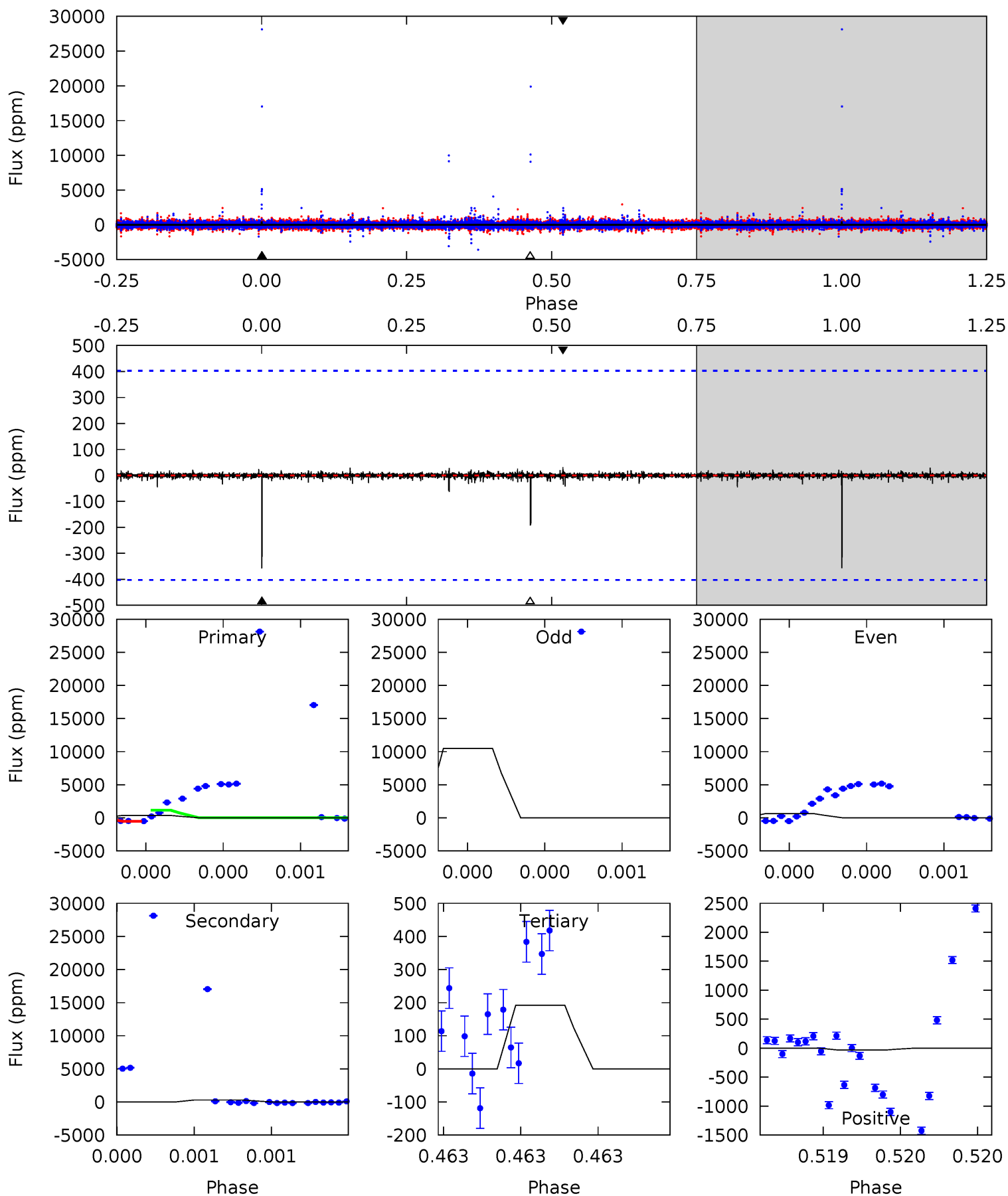
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007672492-01, P = 573.815232 Days, E = 358.802986 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.04	4.03	2.71	0.45	5.67	3.63	0.07	2.32	4.59	1.31	3.58	46.7	-5.38	0.08	0



Stellar Parameters For KIC 007672492

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7478^{+235}_{-314}	$4.077^{+0.170}_{-0.170}$	$-0.180^{+0.200}_{-0.350}$	$1.889^{+0.532}_{-0.435}$	$1.552^{+0.212}_{-0.259}$	$0.324^{+0.301}_{-0.158}$
	+3%/-4%	+4%/-4%	+111%/-194%	+28%/-23%	+14%/-17%	+93%/-49%
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 007672492-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$16.93^{+16.68}_{-11.37}$	506^{+39}_{-36}	-5265^{+40893}_{-28573}	$-7027.068^{+946189.705}_{-812532.039}$
Alt.	-286 ± 71	$18.70^{+17.52}_{-12.83}$	506^{+35}_{-37}	3563^{+1982}_{-617}	1048^{+10193}_{-781}

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 $A_{obs} \gg 1.0$

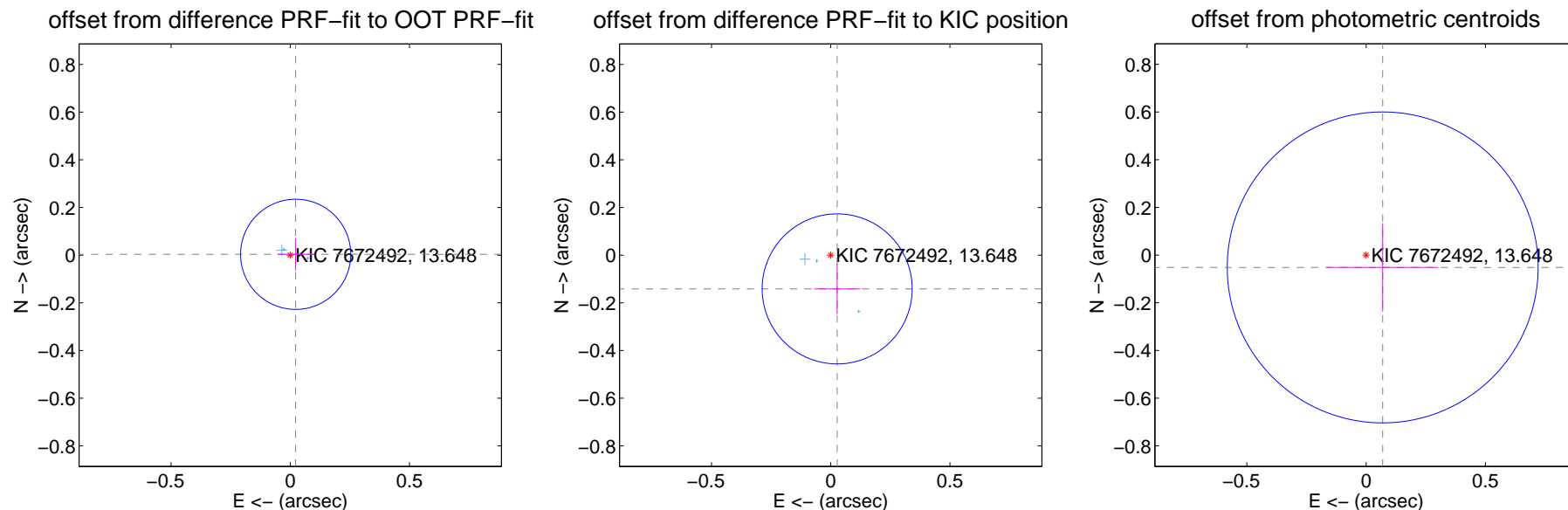
DV Centroid Data

Supplemental centroid analysis for 007672492-01. Kepler magnitude: 13.65. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

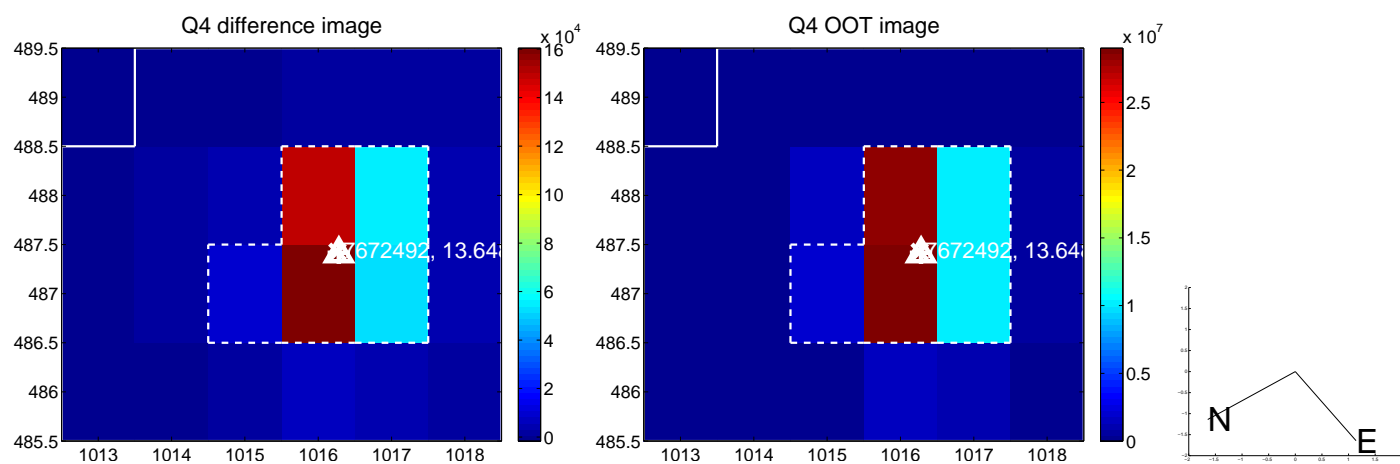
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.023 ± 0.077	0.30	-0.023 ± 0.077	0.003 ± 0.068
PRF-fit source offset from KIC position	0.144 ± 0.105	1.37	-0.027 ± 0.097	-0.142 ± 0.105
photometric centroid source offset	0.09 ± 0.22	0.40	-0.07 ± 0.23	-0.05 ± 0.19



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

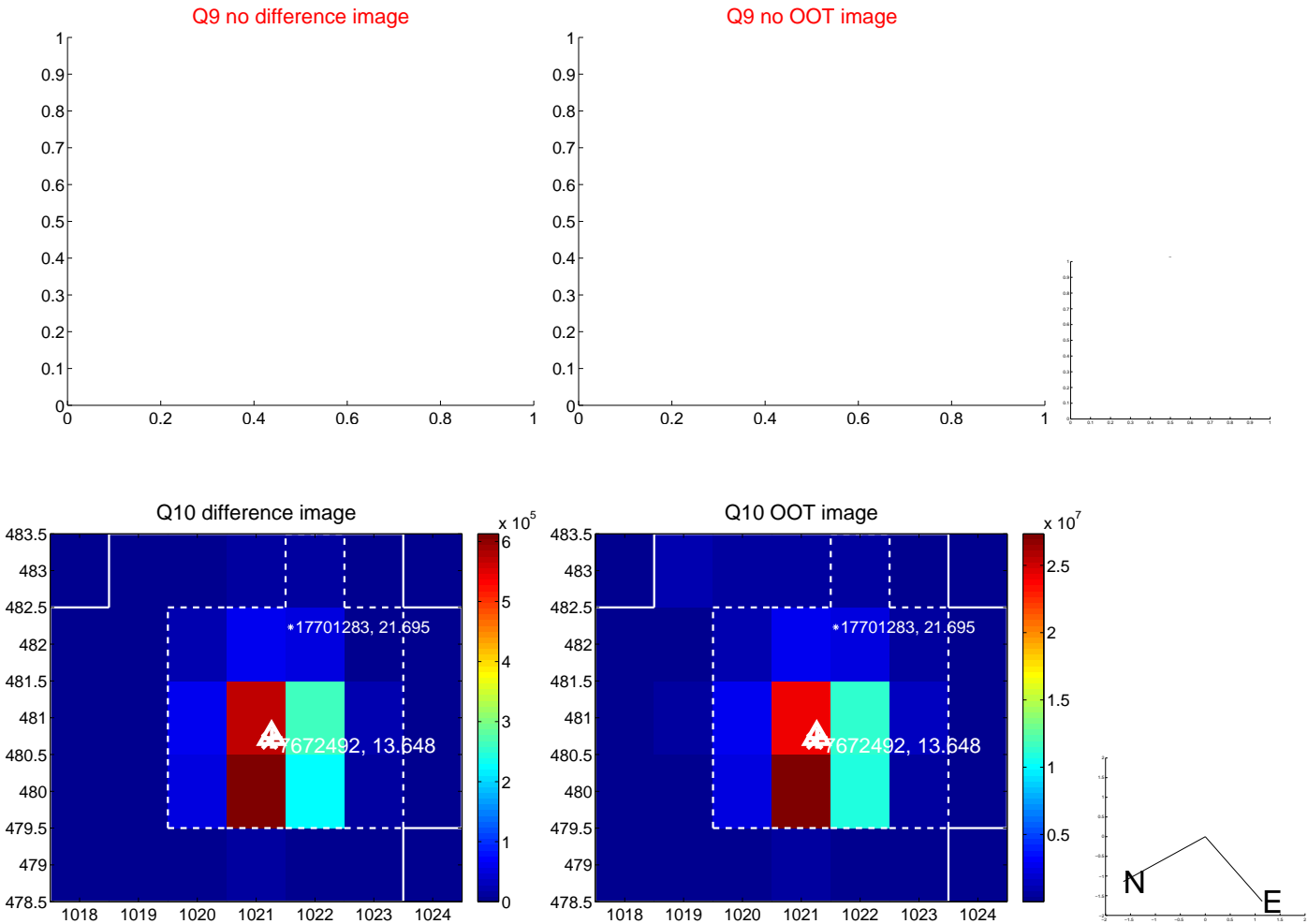
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



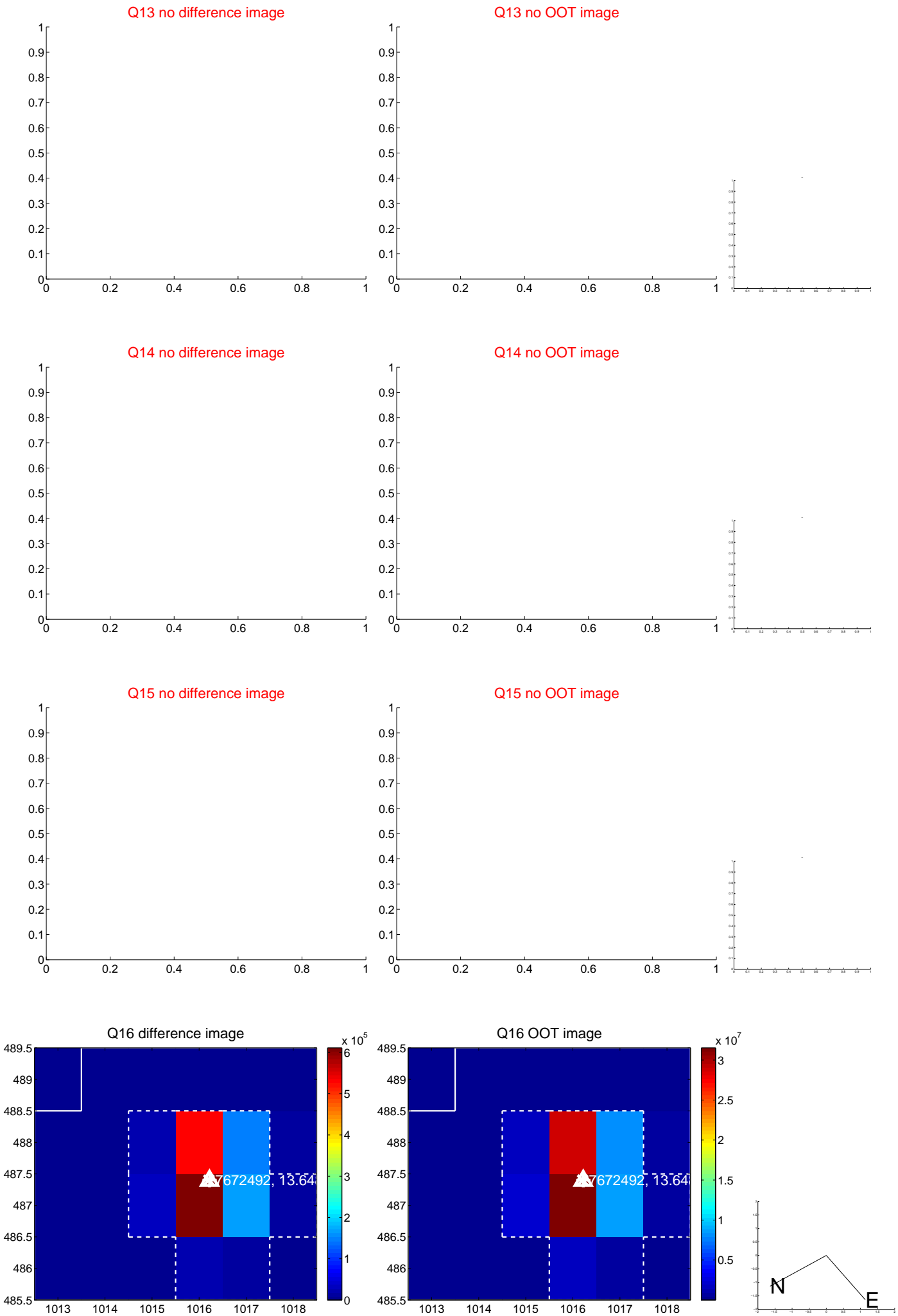
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



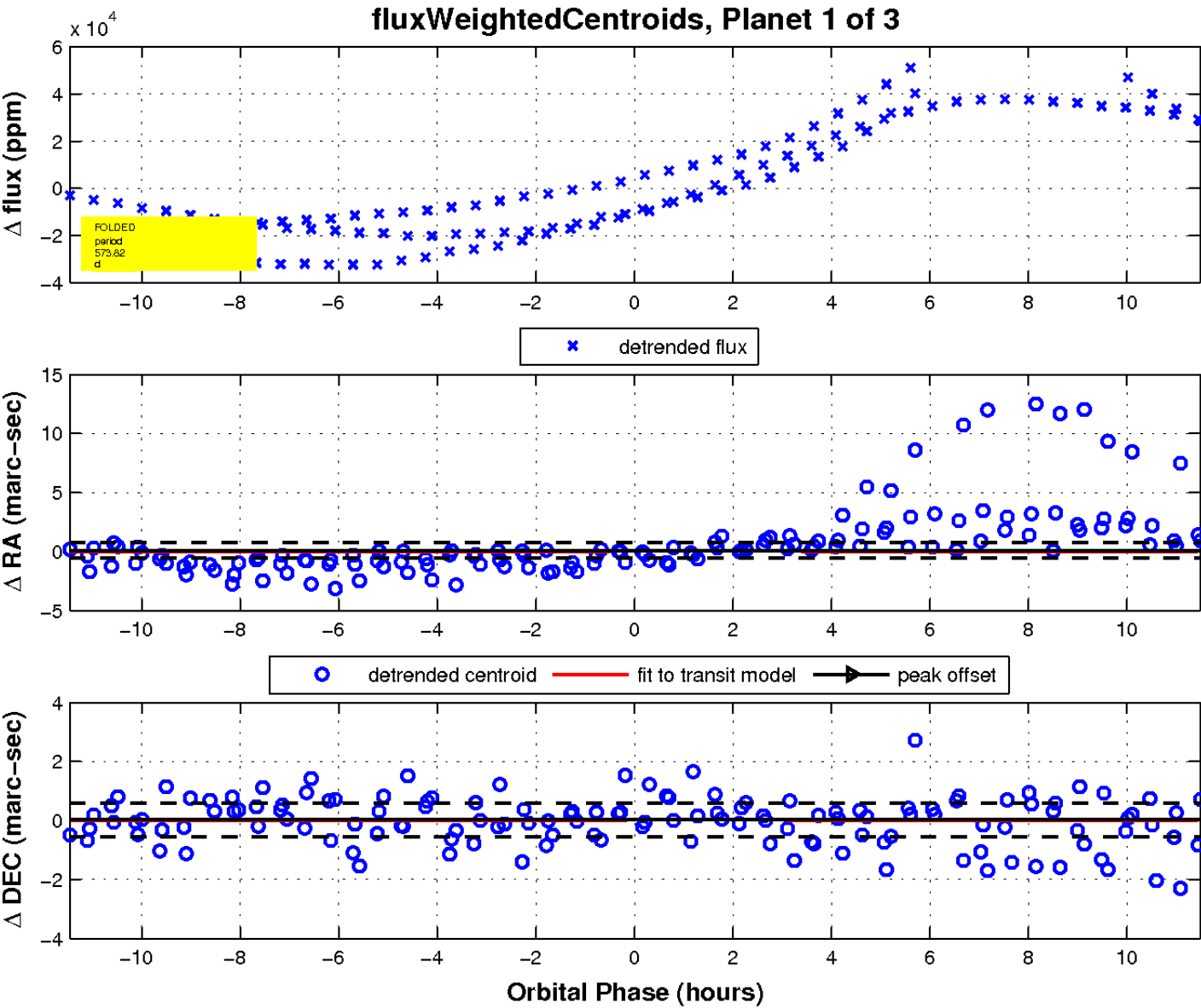
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

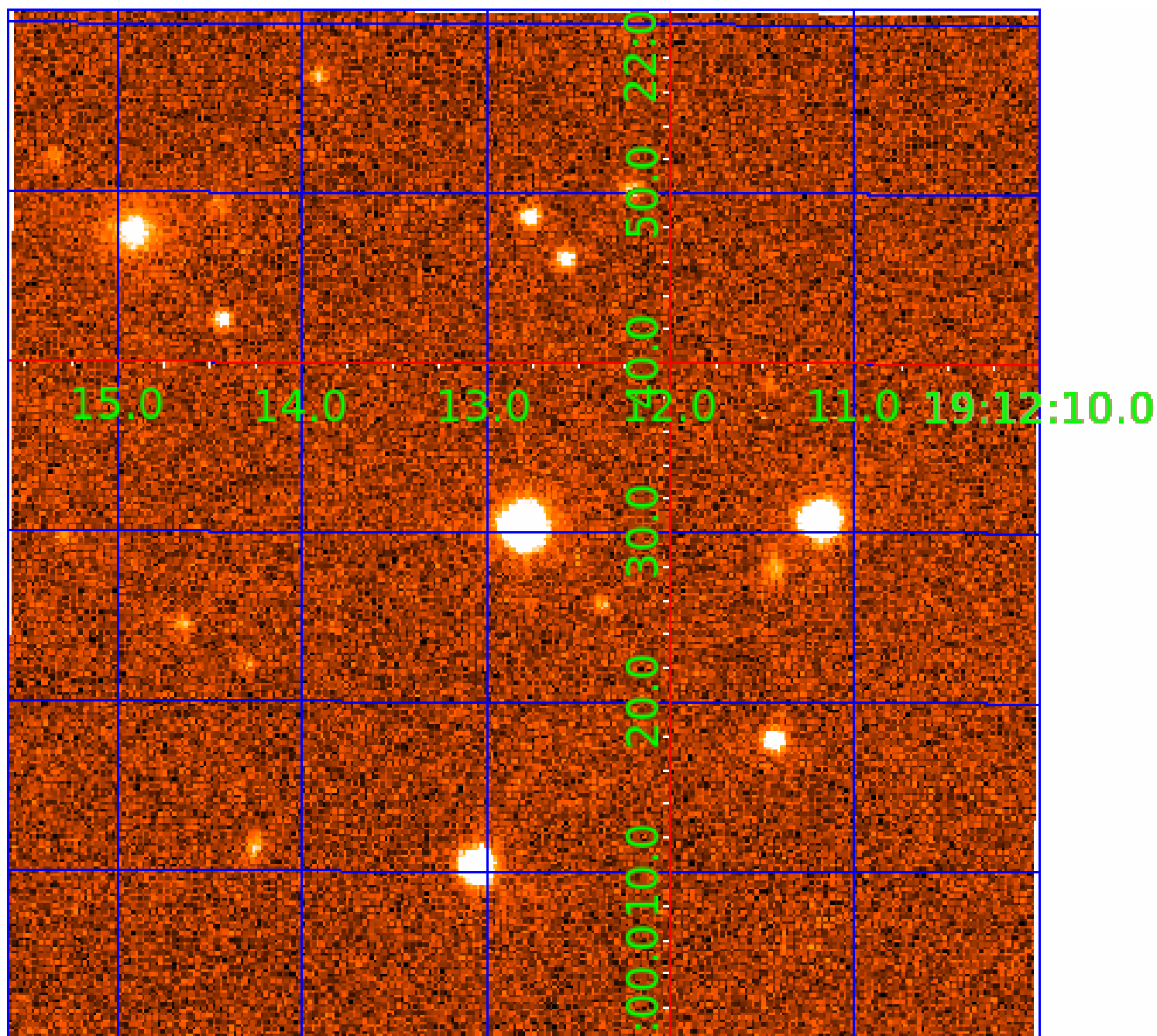


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007672492

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})
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007672492-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007672492-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_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.

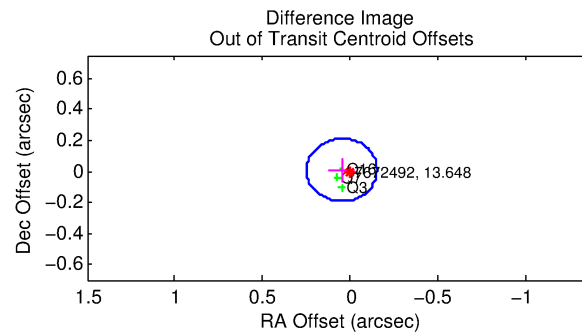
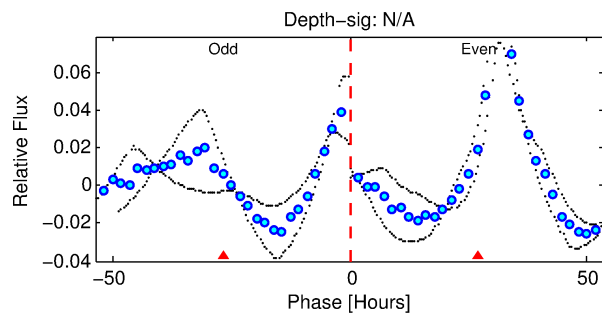
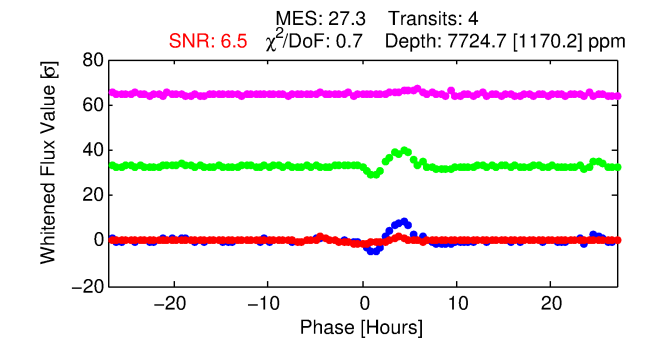
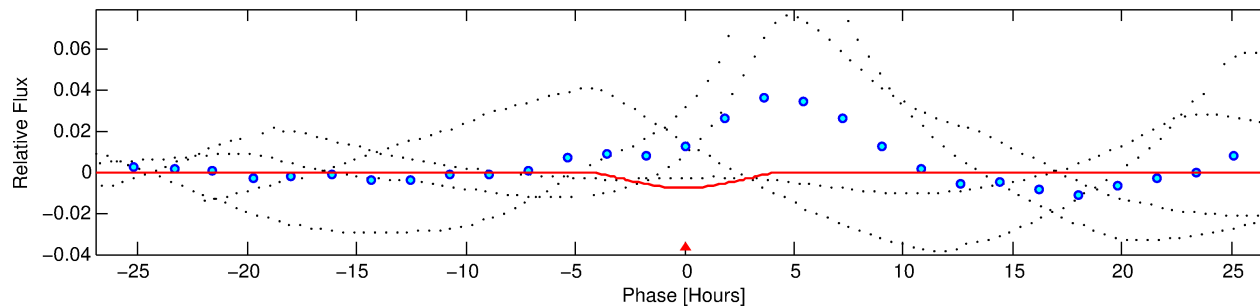
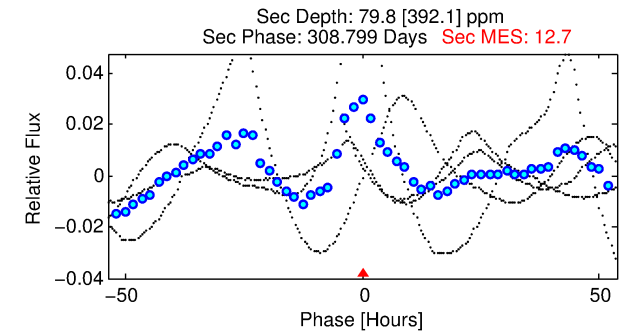
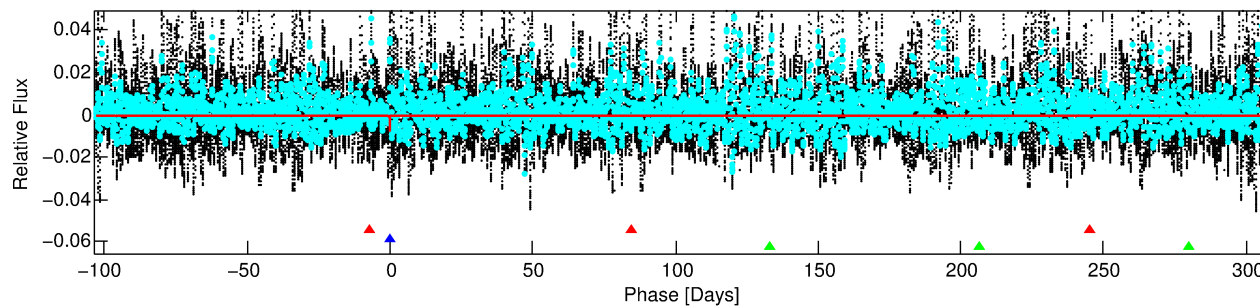
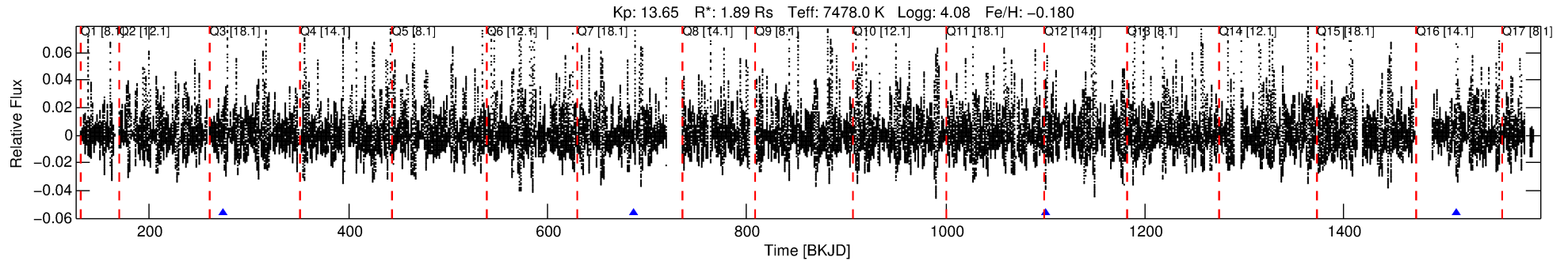
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007672492-02

No Significant Match Found

DV One-Page Summary

KIC: 7672492 Candidate: 2 of 3 Period: 413.067 d



DV Fit Results:

Period = 413.06742 [0.00507] d
Epoch = 274.2074 [0.0103] BKJD
Rp/R* = 0.1432 [0.1090]
a/R* = 194.87 [21.93]
b = 1.00 [0.15]
Seff = 6.32 [2.29]
Teq = 404 [37] K
Rp = 29.52 [23.95] Re
a = 1.2576 [0.2875] AU
Ag = 79.68 [410.62] [0.19σ]
Teffp = 1868 [2403] K [0.61σ]

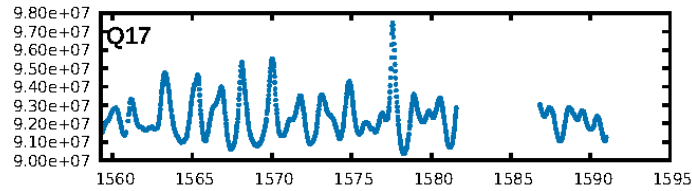
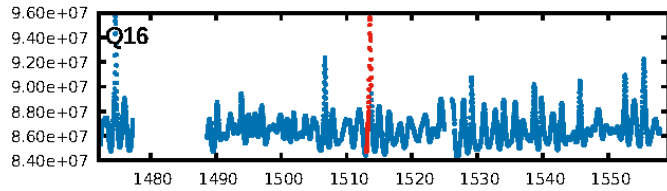
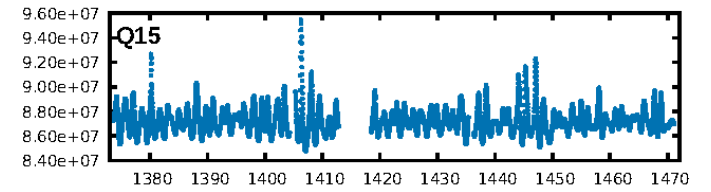
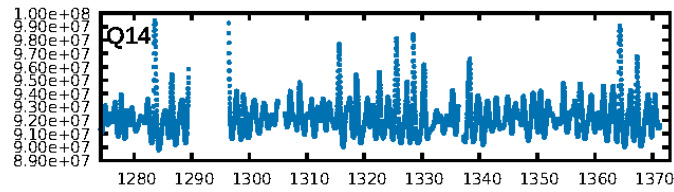
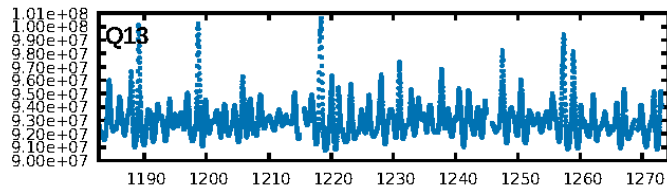
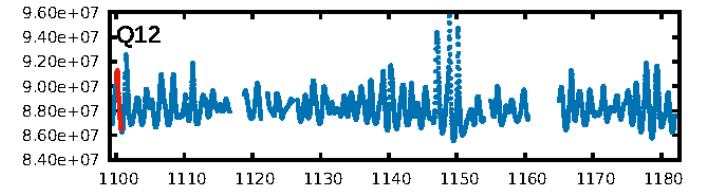
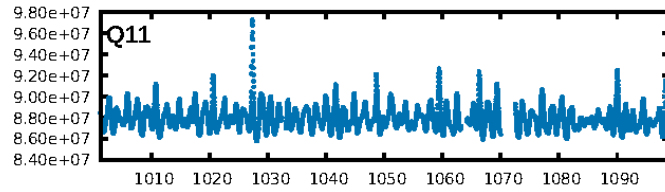
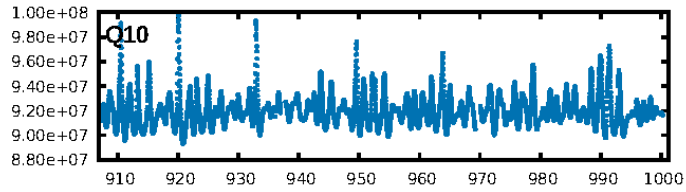
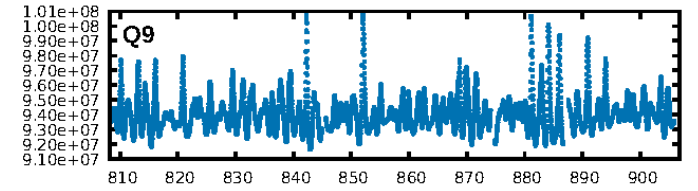
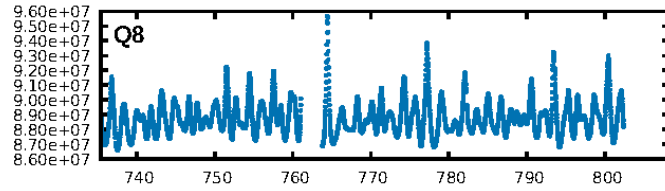
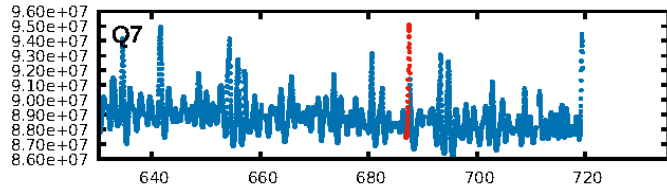
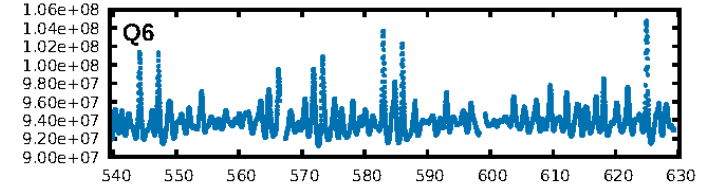
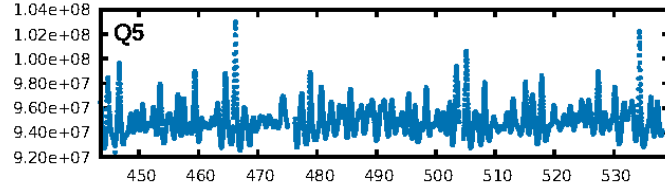
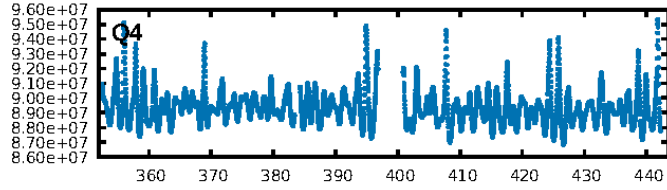
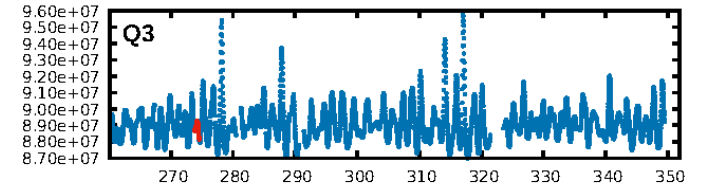
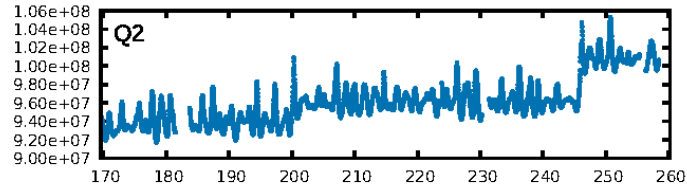
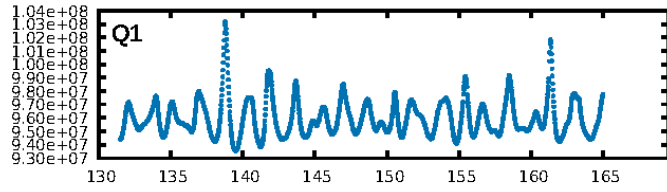
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [143.17σ]
ModelChiSquare2-sig: 3.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.37e-10
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 41.33
Centroid-sig: 2.8%
Centroid-so: 0.171 arcsec [2.04σ]
OotOffset-rm: 0.050 arcsec [0.74σ]
KicOffset-rm: 0.101 arcsec [1.12σ]
OotOffset-st: 0/2/1/0 [3]
KicOffset-st: 0/2/1/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [3/3]

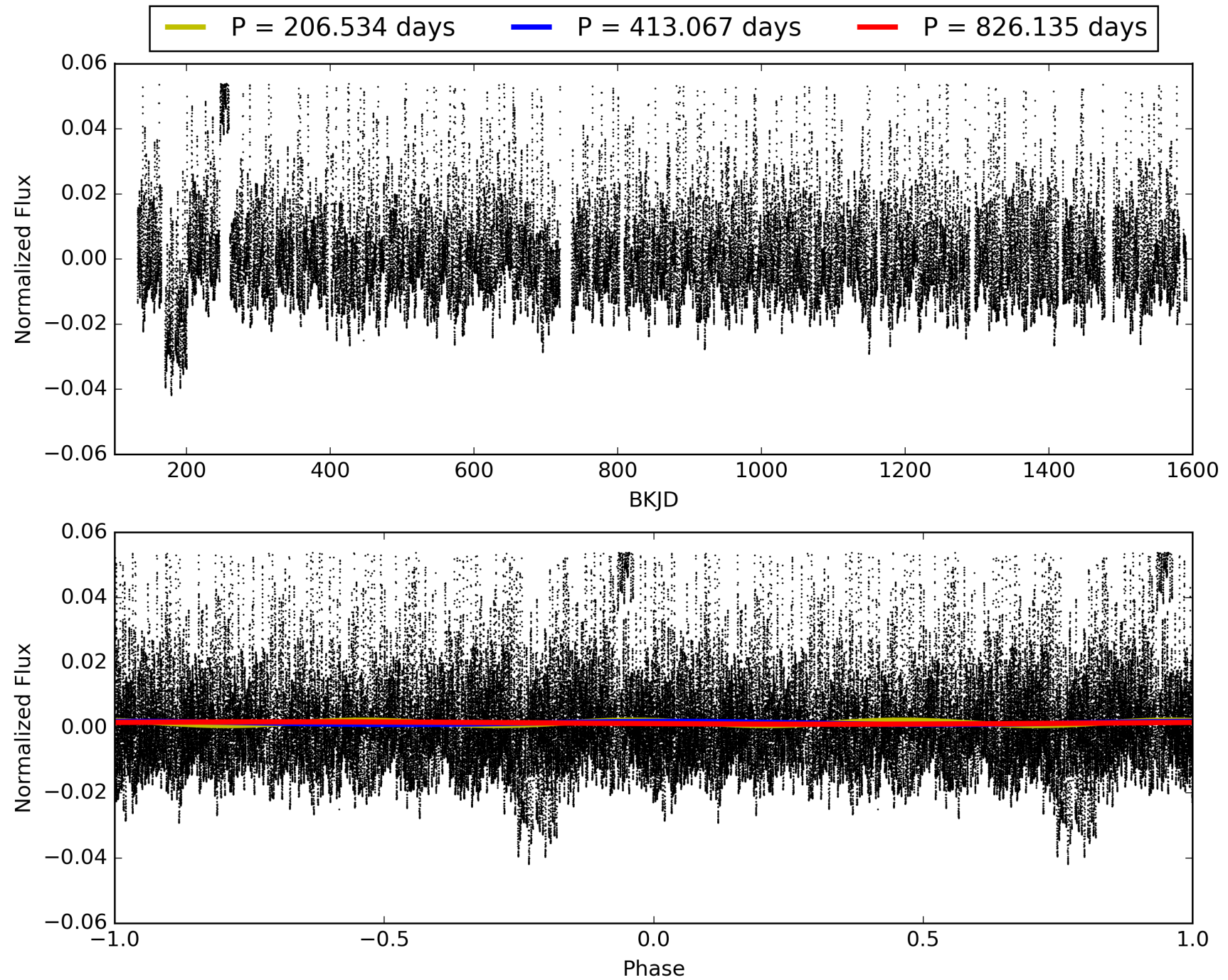
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:02:20 Z

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

TCE 007672492-02, PDC Light Curves

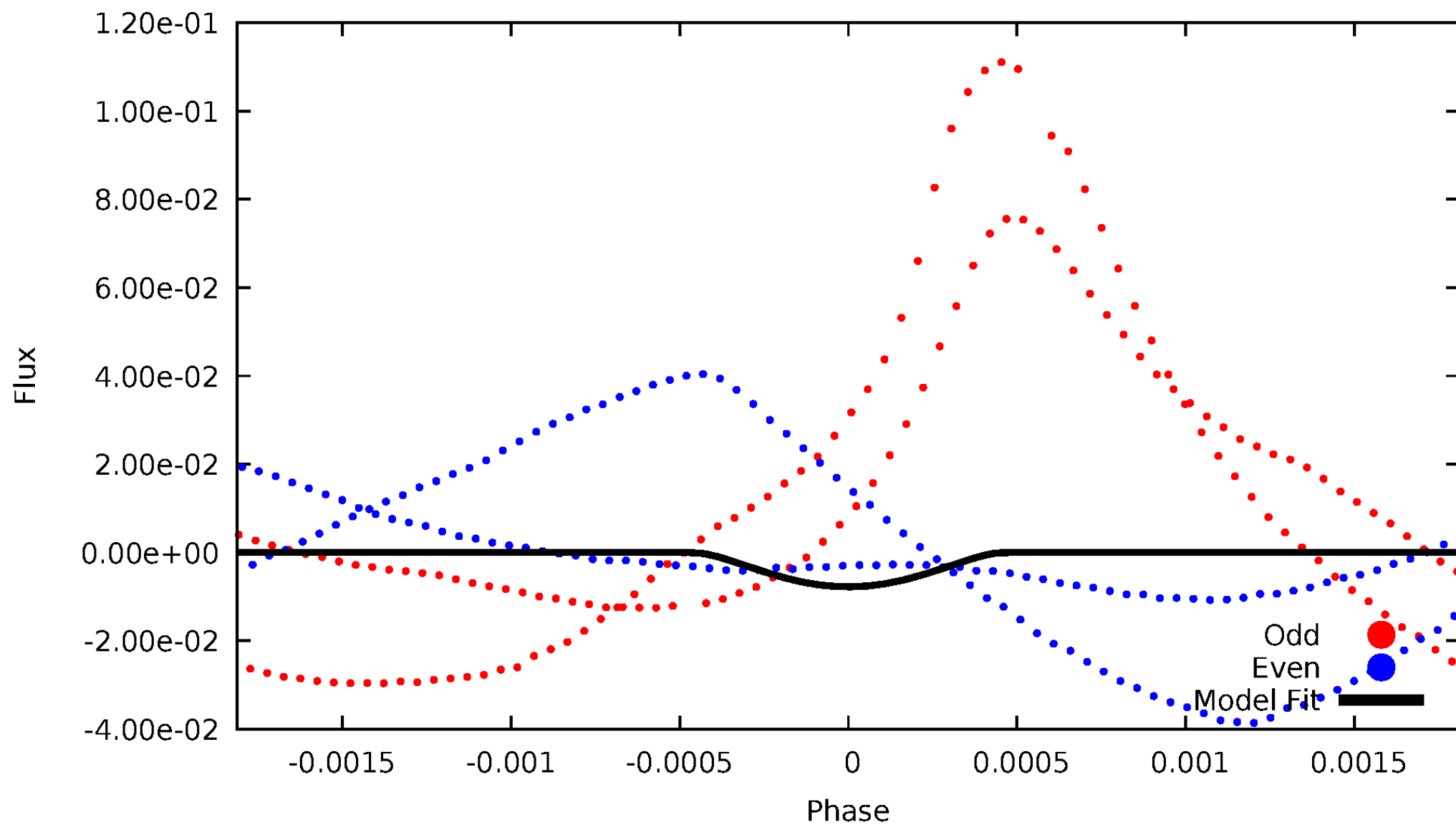


TCE 007672492-02



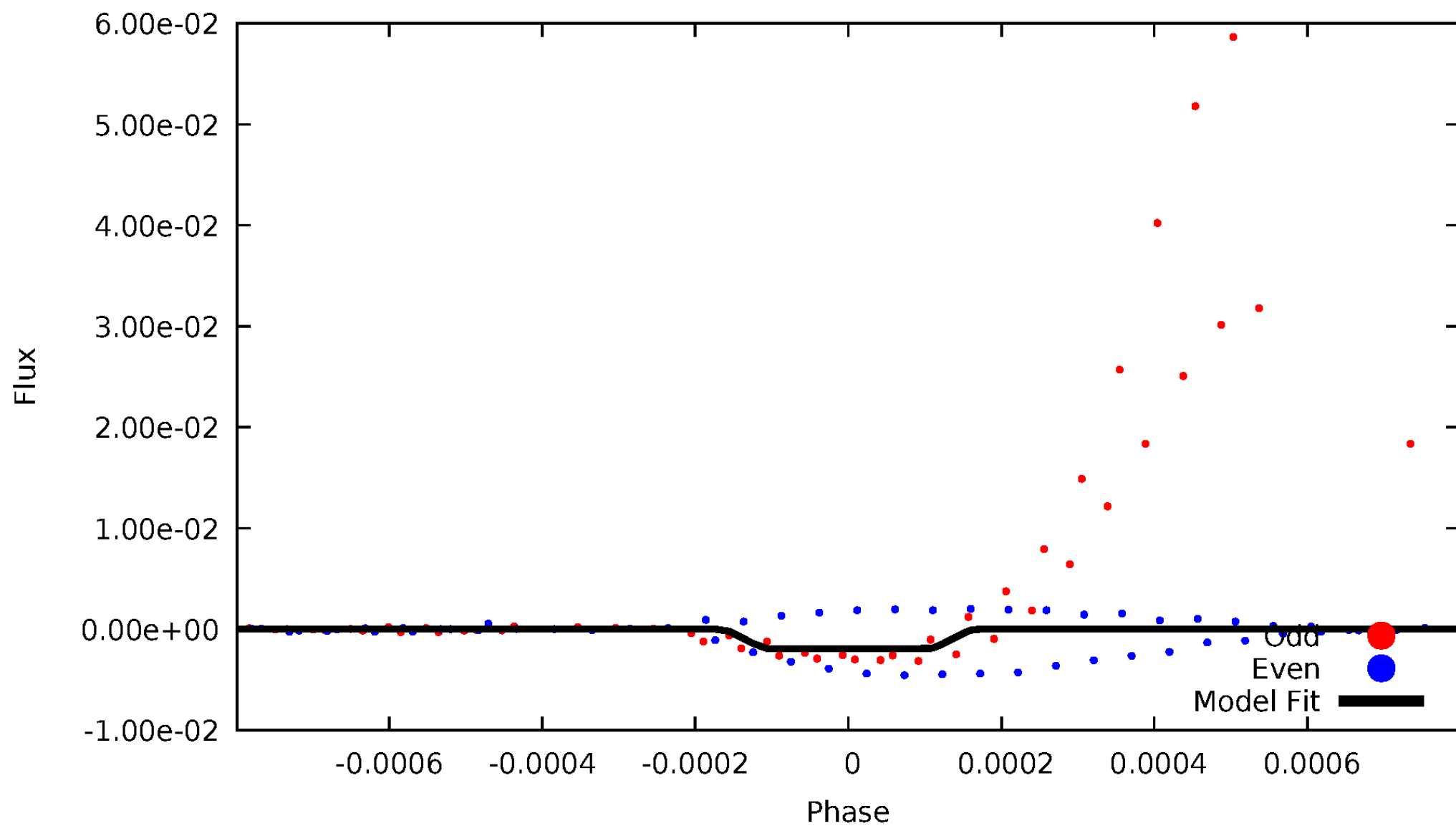
DV Odd/Even

TCE 007672492-02



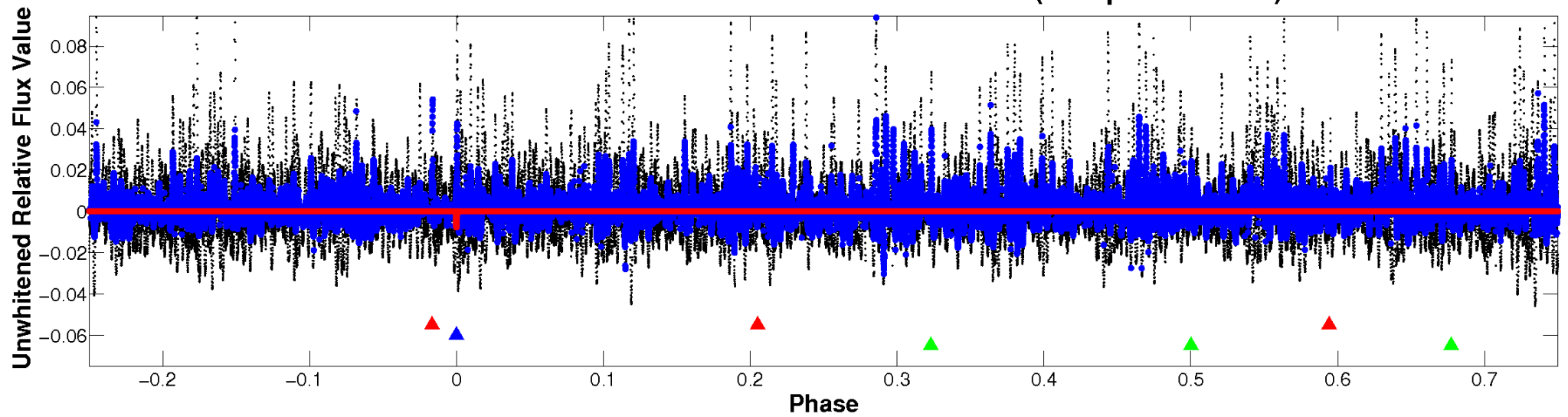
ALT Odd/Even

TCE 007672492-02

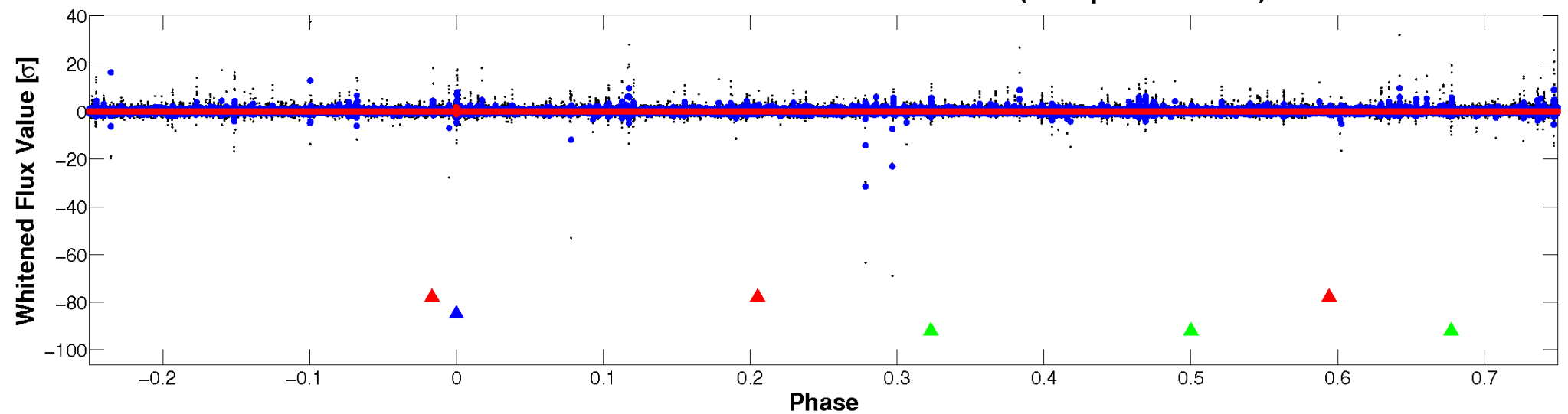


Non-Whitened Vs. Whitened Light Curve

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

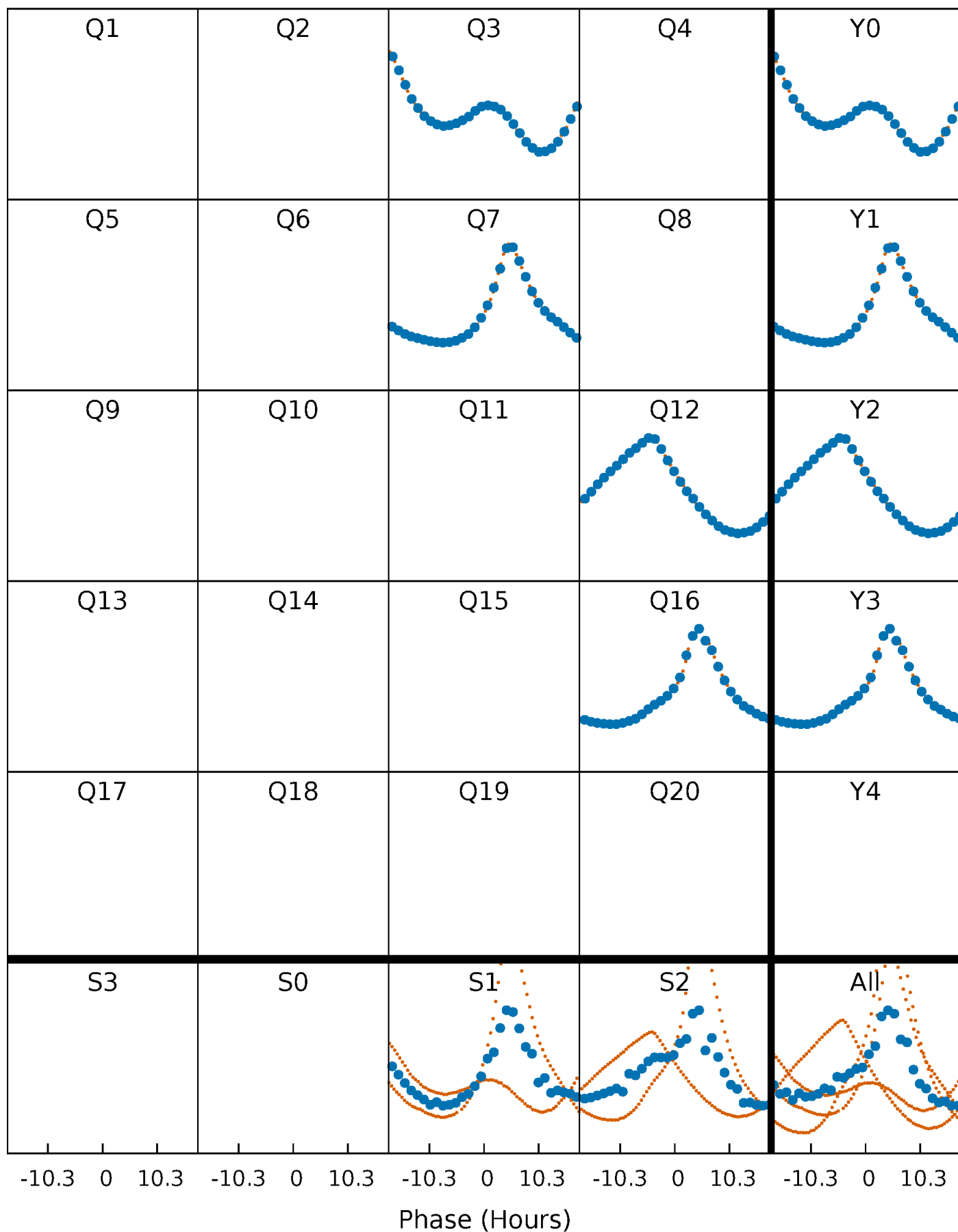


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



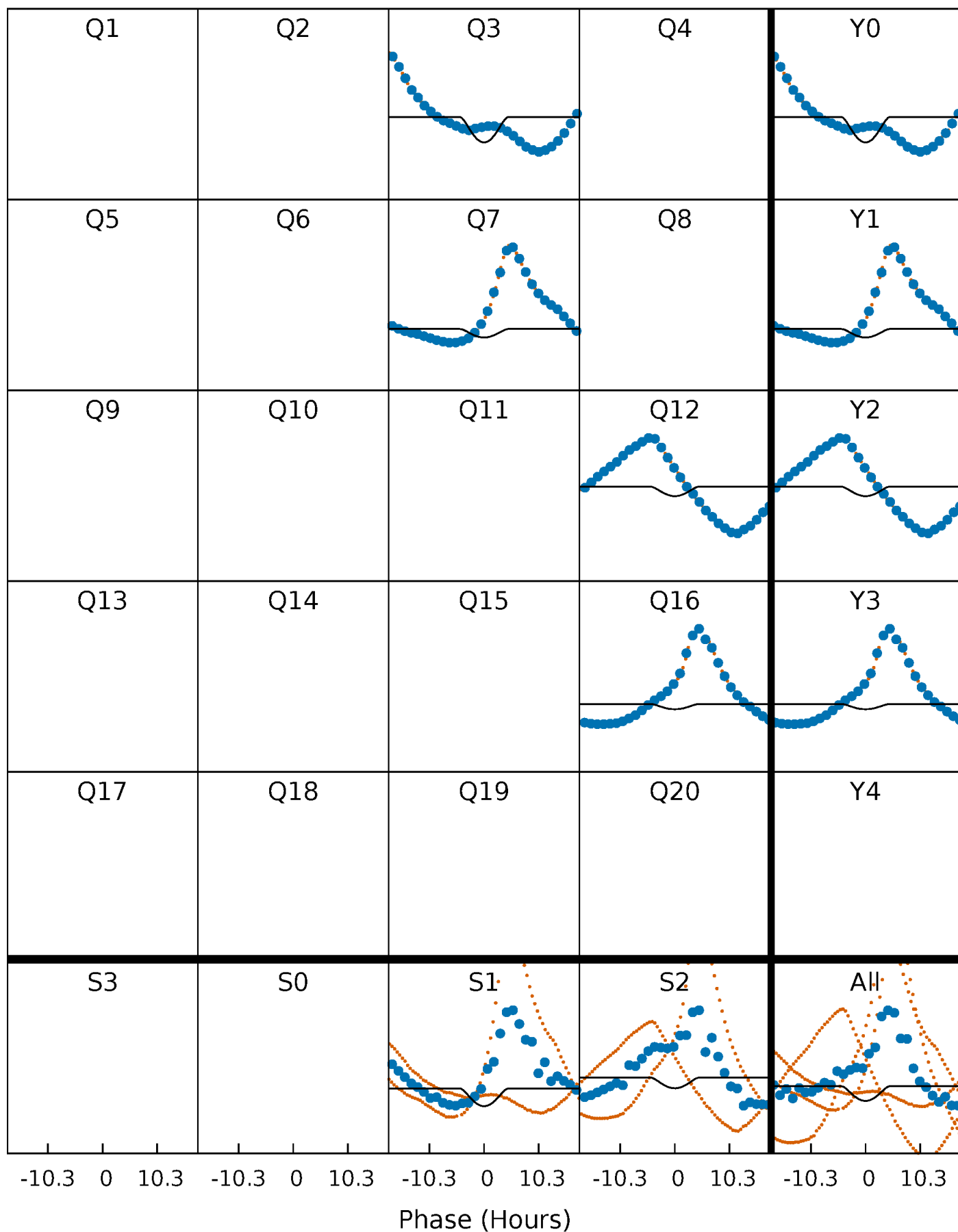
PDC Quarter-Phased Transit Curves

TCE 007672492-02 P=413.067417 Days $T_0=274.207403$ (BKJD)



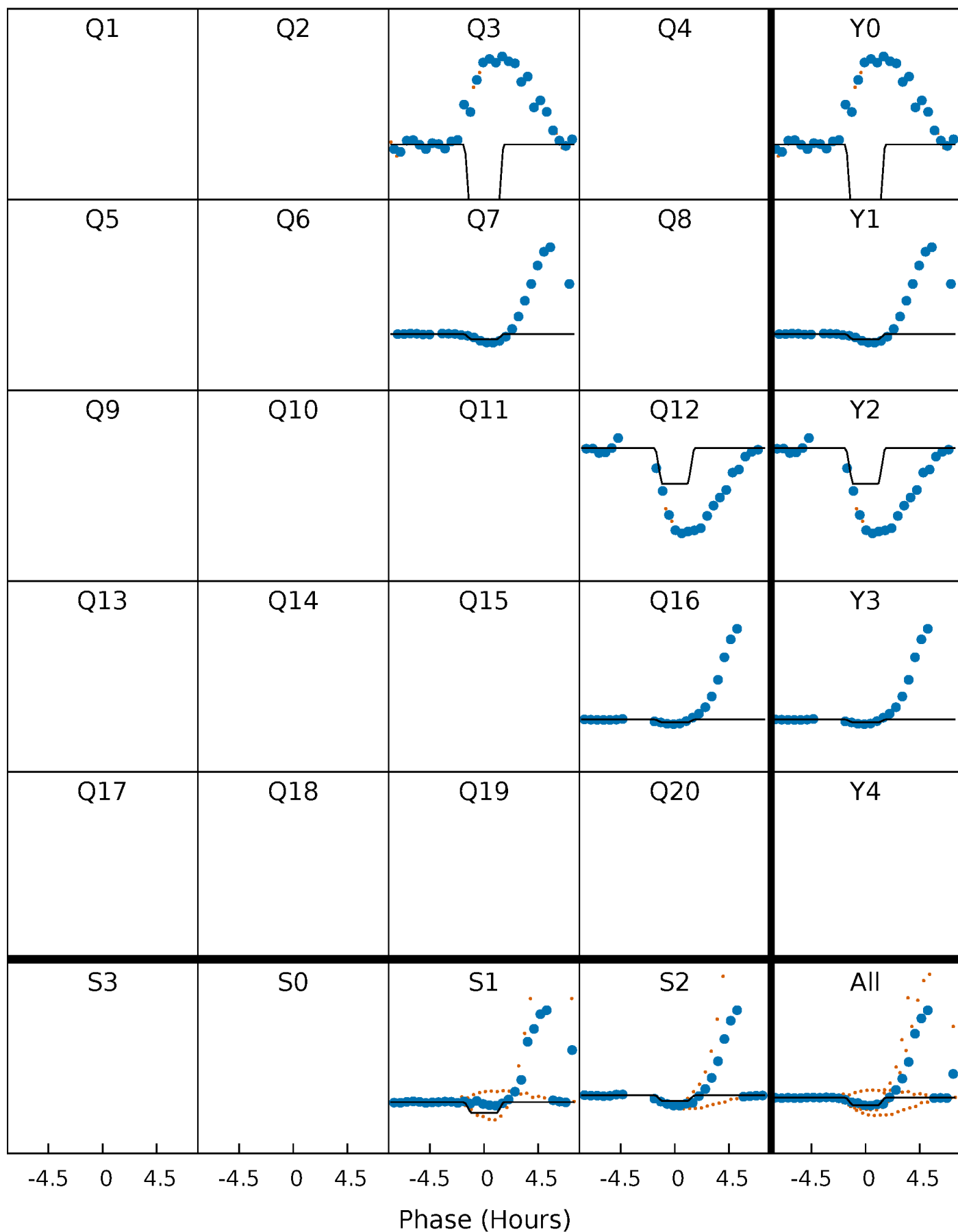
DV Quarter-Phased Transit Curves

TCE 007672492-02 $P=413.067417$ Days $T_0=274.207403$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

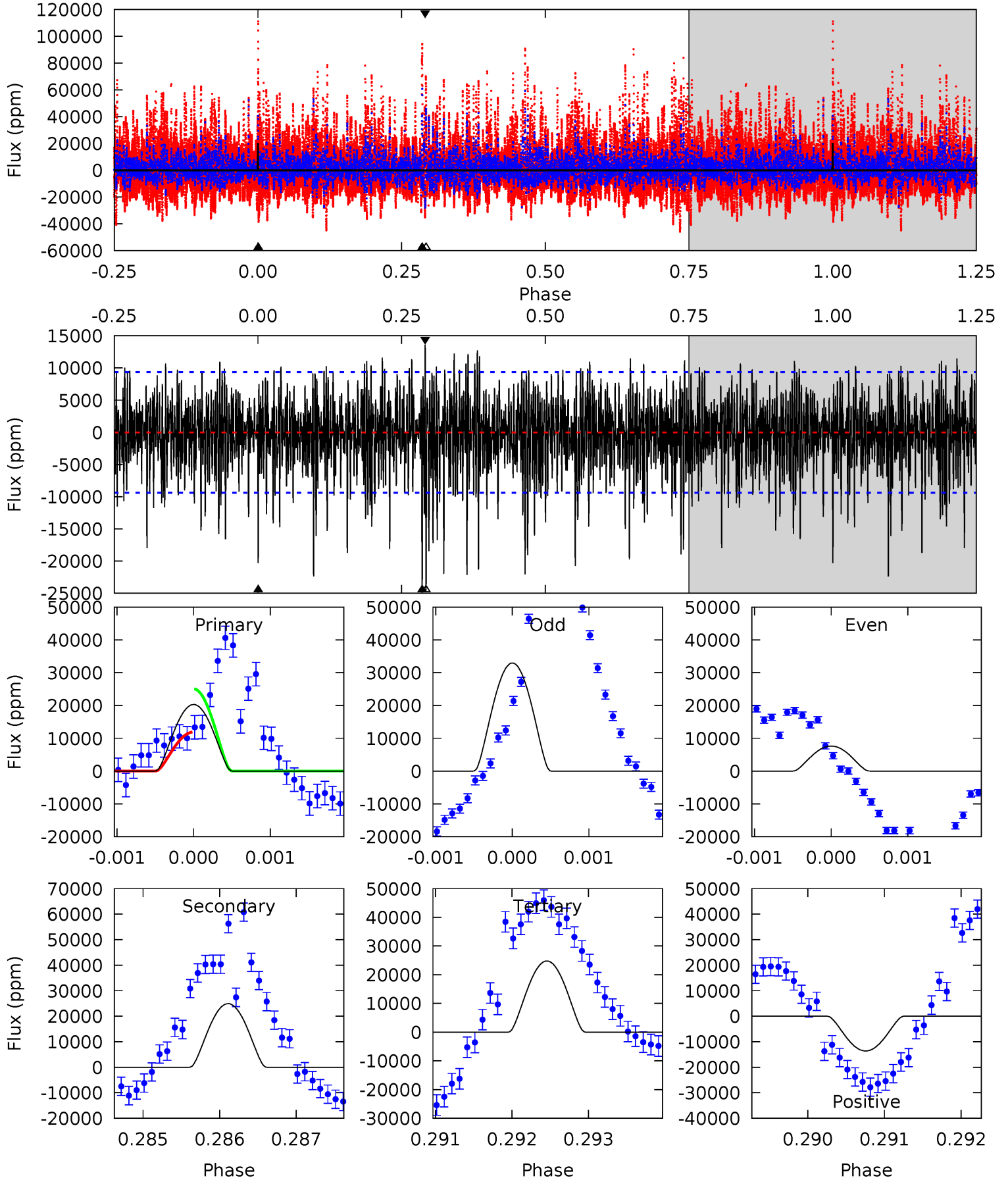
TCE 007672492-02 $P=413.050793$ Days $T_0=274.195996$ (BKJD)



DV Model-Shift Uniqueness Test

007672492-02, P = 413.067417 Days, E = 274.207403 Days

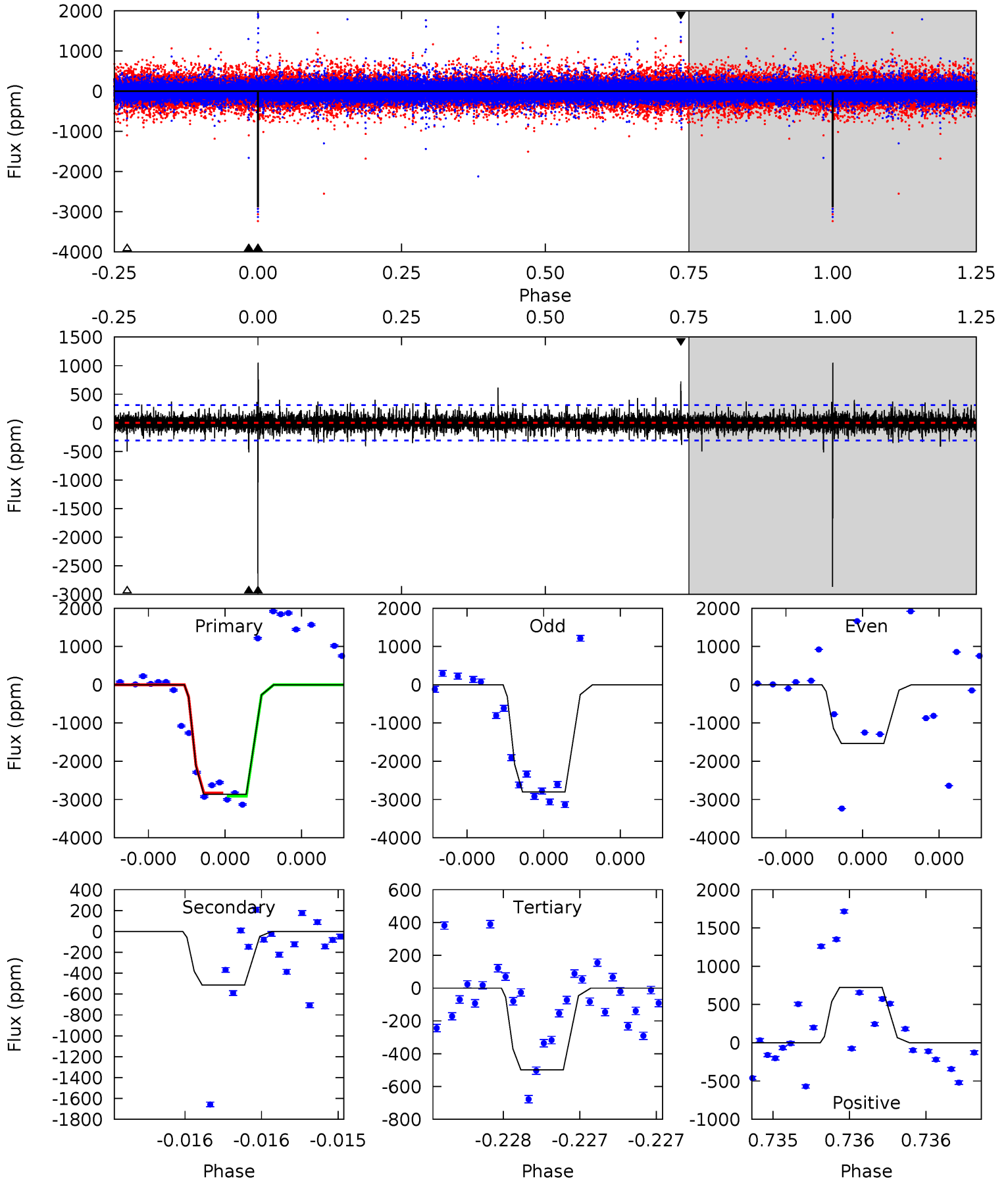
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.8	14.5	14.5	7.94	5.46	3.31	3.04	-2.62	3.90	0.08	6.60	6.89	1.11	0.35	3.80



Alt Model-Shift Uniqueness Test

007672492-02, P = 413.050793 Days, E = 274.195996 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
52.2	9.36	9.09	13.2	5.65	3.59	1.37	43.1	39.0	0.27	-3.85	8.28	0.73	0.27	0.80



Stellar Parameters For KIC 007672492

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7478^{+235}_{-314}	$4.077^{+0.170}_{-0.170}$	$-0.180^{+0.200}_{-0.350}$	$1.889^{+0.532}_{-0.435}$	$1.552^{+0.212}_{-0.259}$	$0.324^{+0.301}_{-0.158}$
	+3%/-4%	+4%/-4%	+111%/-194%	+28%/-23%	+14%/-17%	+93%/-49%
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 007672492-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-24916 ± 1714	$30.90^{+23.36}_{-17.98}$	562^{+44}_{-40}	7654^{+7229}_{-1929}	$23230^{+105958}_{-15997}$
Alt.	-514 ± 55	$18.43^{+19.35}_{-12.66}$	563^{+44}_{-41}	4010^{+2520}_{-826}	1304^{+12292}_{-1003}

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

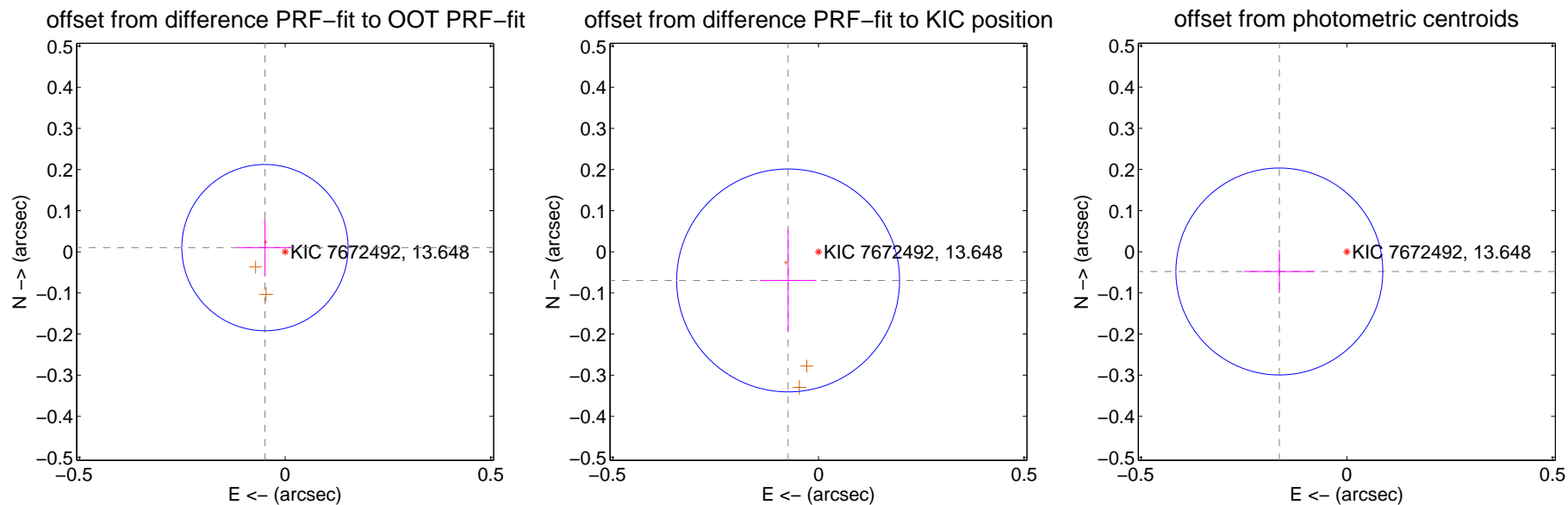
DV Centroid Data

Supplemental centroid analysis for 007672492-02. Kepler magnitude: 13.65. Transit SNR 6.49

There are 0 quarters with good PRF difference image offsets

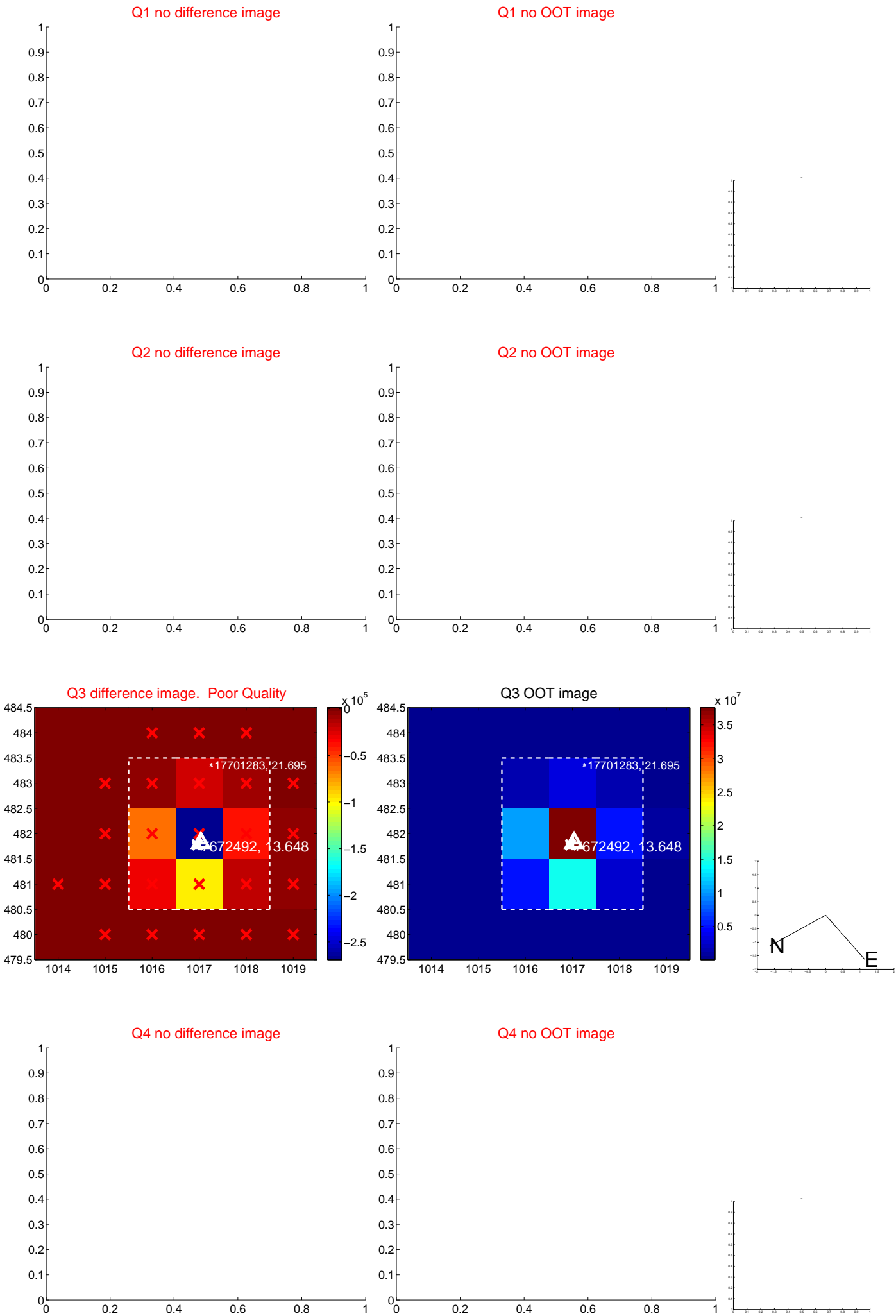
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.050 ± 0.067	0.74	0.049 ± 0.067	0.010 ± 0.070
PRF-fit source offset from KIC position	0.101 ± 0.090	1.12	0.074 ± 0.068	-0.070 ± 0.123
photometric centroid source offset	0.17 ± 0.08	2.04	0.16 ± 0.09	-0.05 ± 0.05



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

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



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

Q5 no difference image



Q5 no OOT image



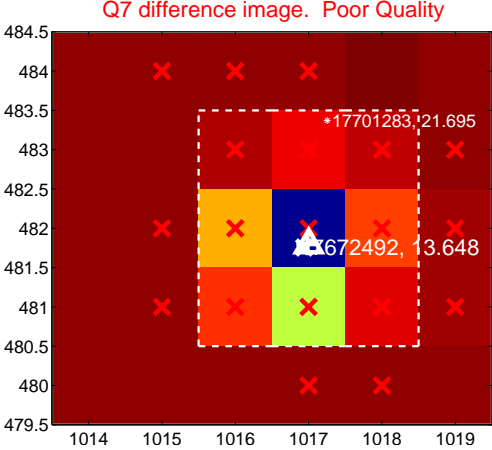
Q6 no difference image



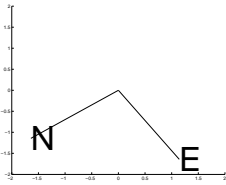
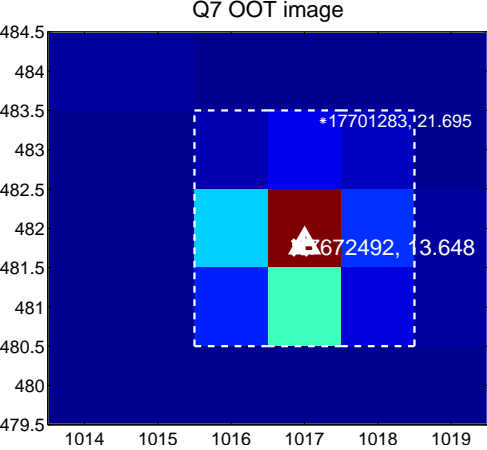
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



Q8 no difference image



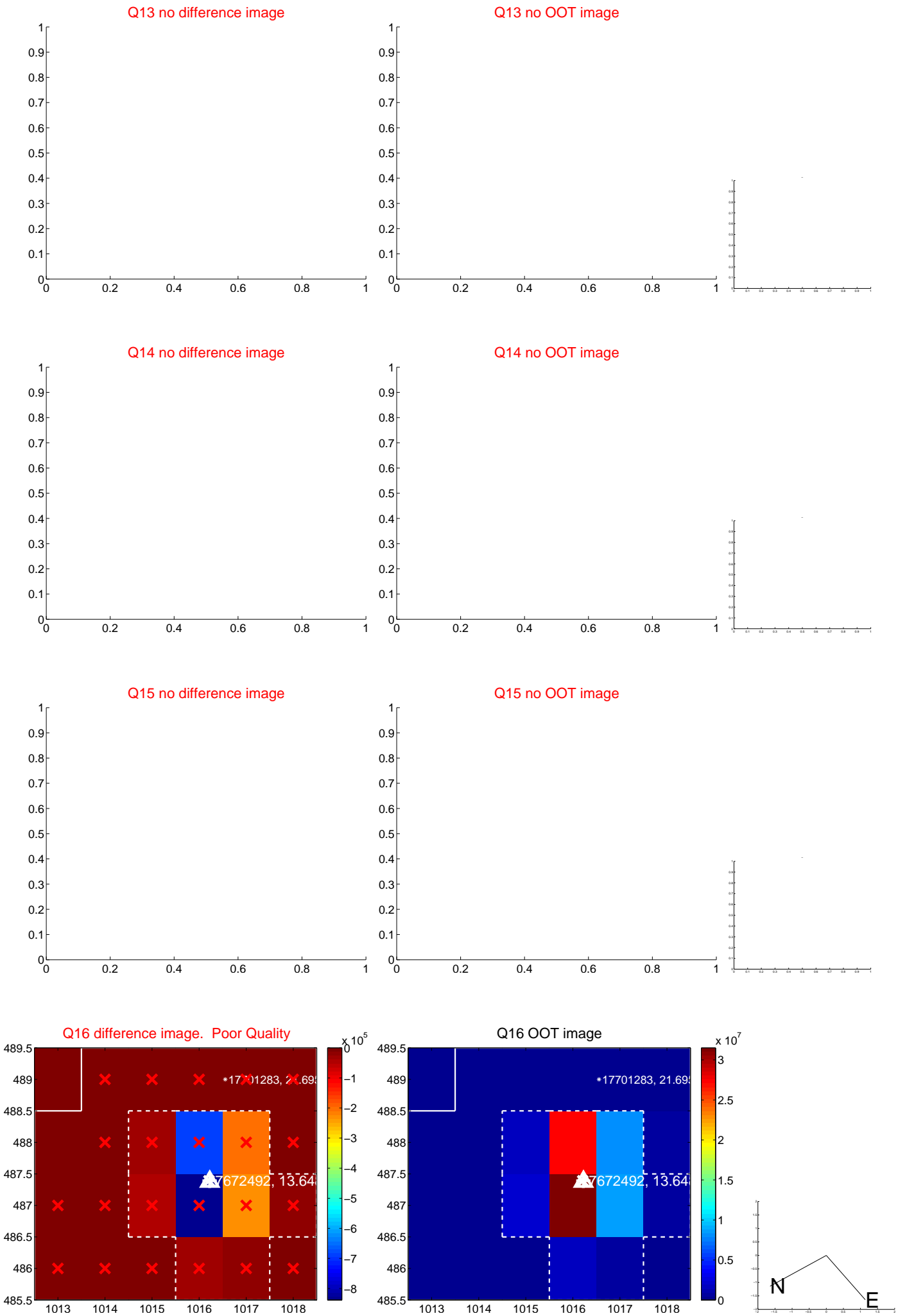
Q8 no OOT image



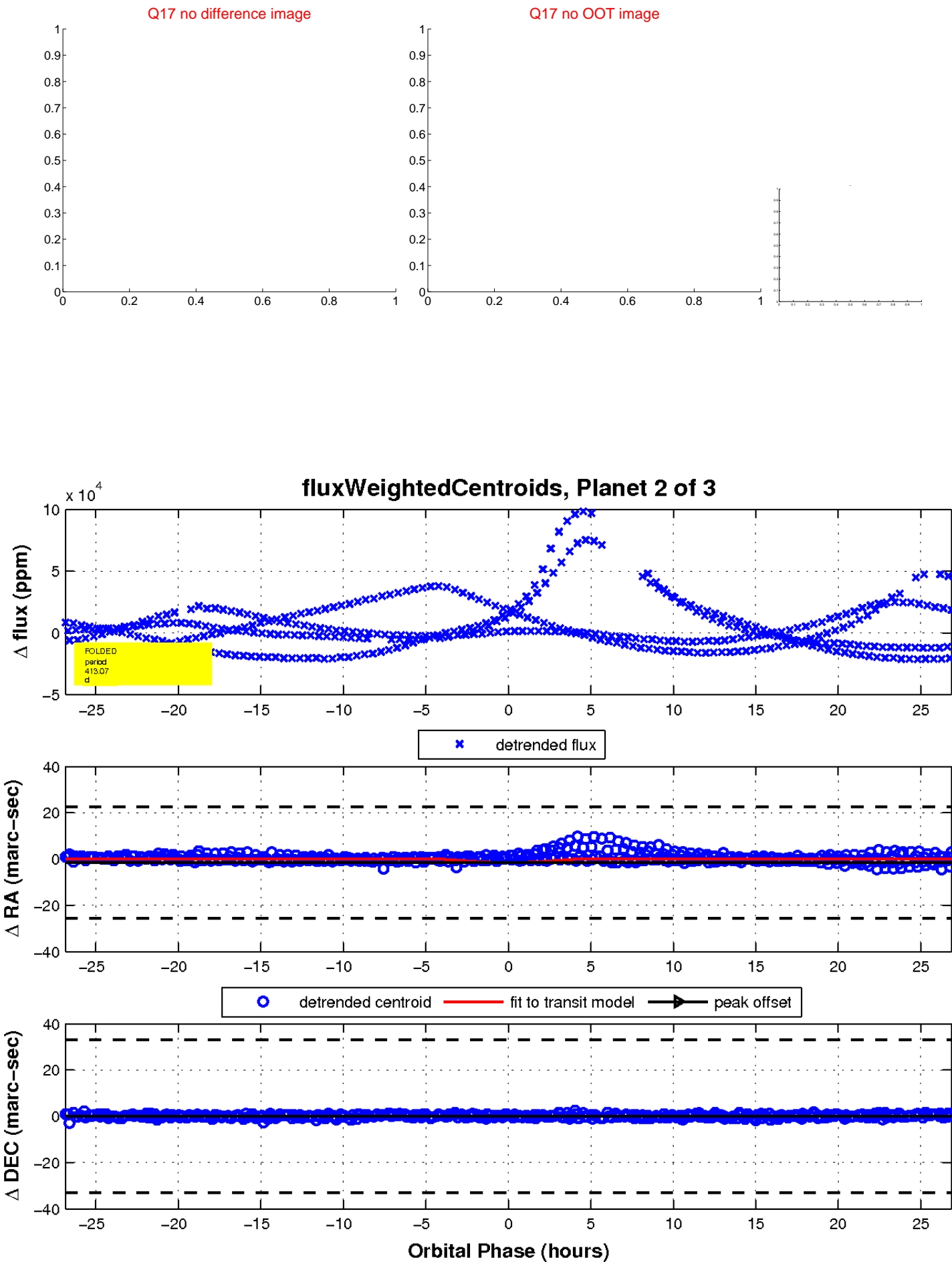
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

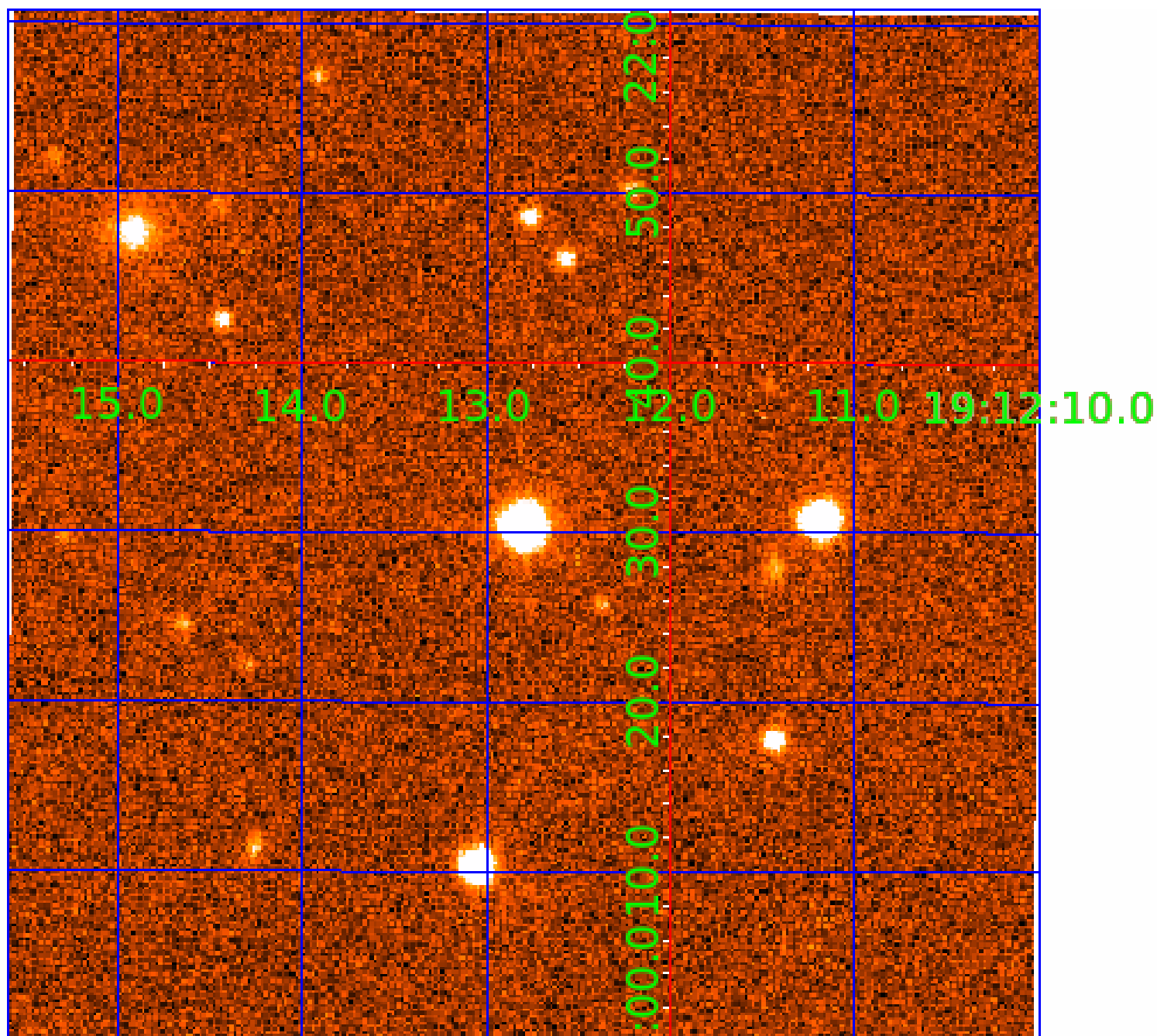


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007672492

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})
007672492-01	OBS	No	573.815232	358.912677	1408.8	5.000	33.2	-1.0	1.89	7478	7.13	4.08
007672492-02	OBS	No	413.067417	274.207403	7724.7	8.978	27.3	6.5	1.89	7478	29.52	6.32
007672492-03	OBS	No	486.238196	407.628858	10241.2	8.357	22.9	8.1	1.89	7478	33.75	5.09

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007672492-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_NOFITS
007672492-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007672492-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_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.

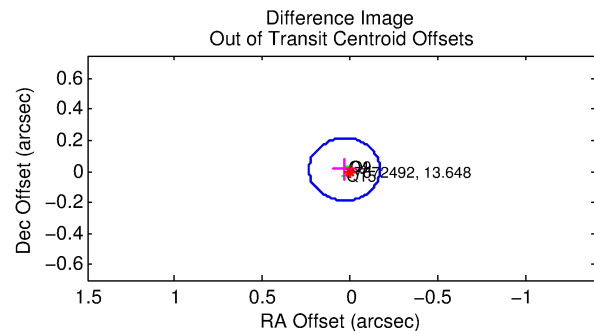
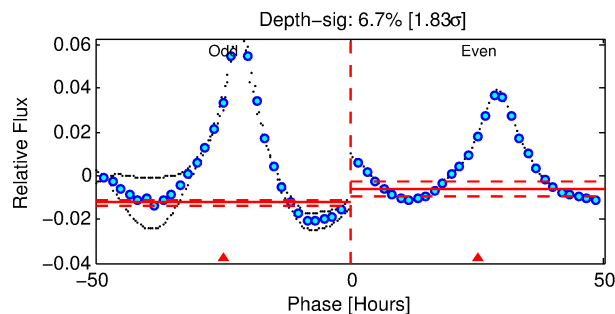
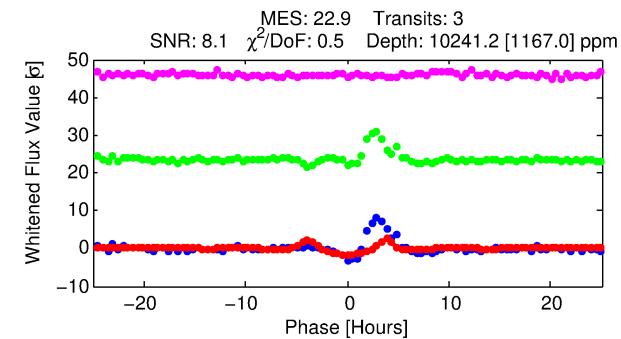
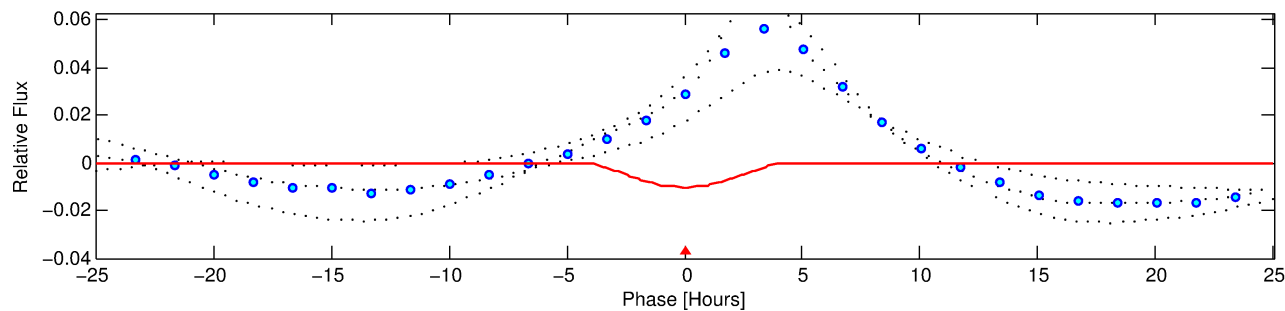
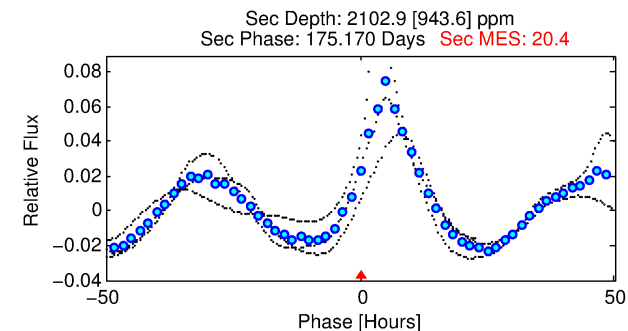
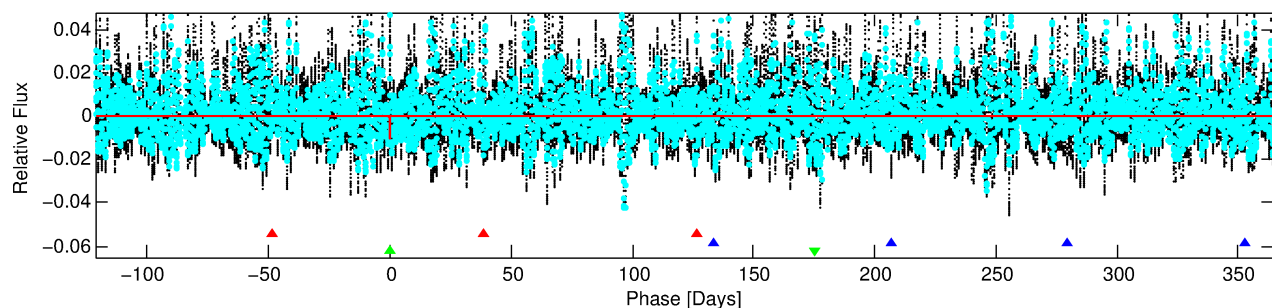
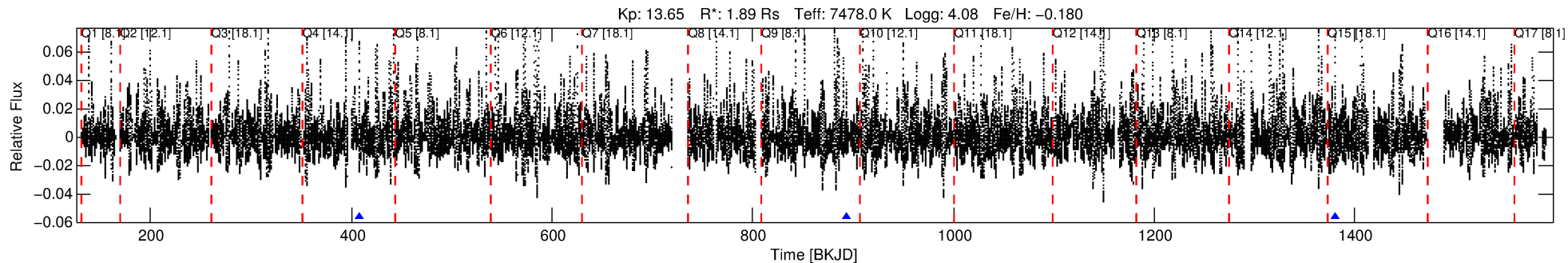
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007672492-03

No Significant Match Found

DV One-Page Summary

KIC: 7672492 Candidate: 3 of 3 Period: 486.238 d



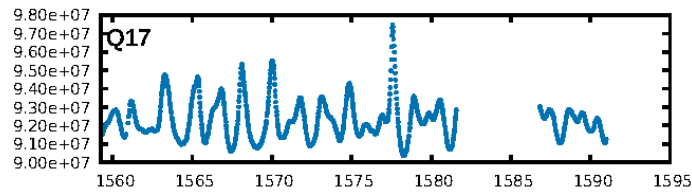
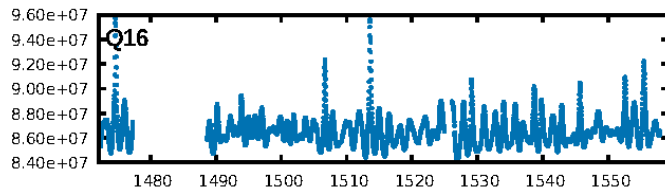
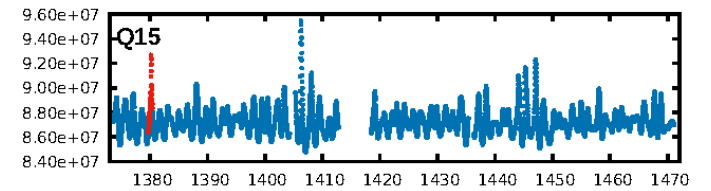
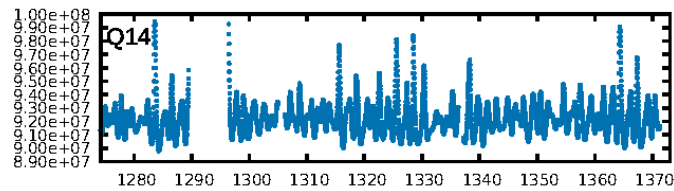
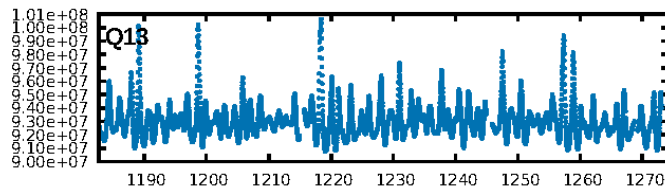
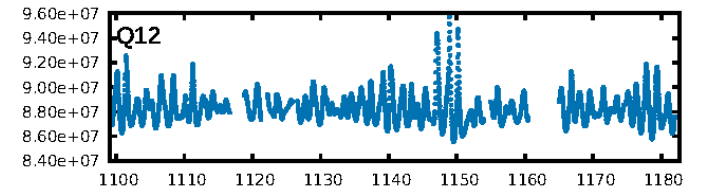
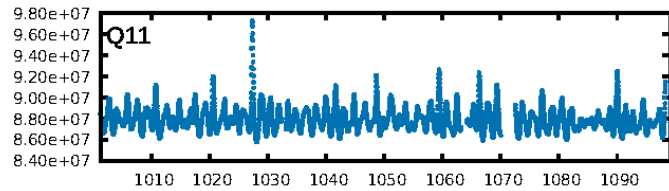
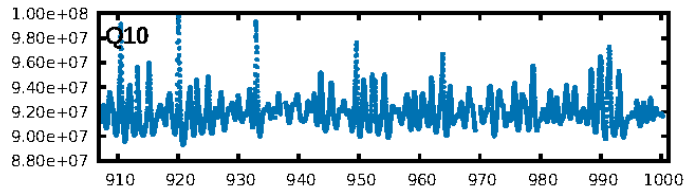
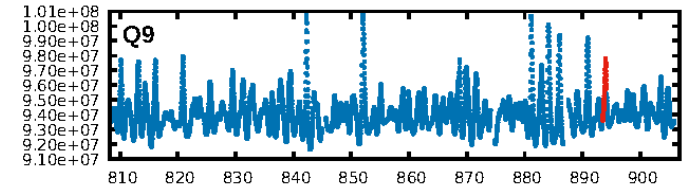
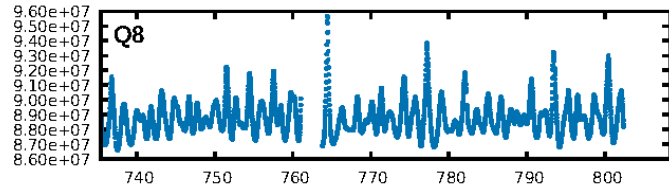
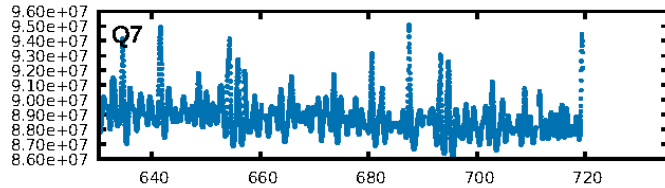
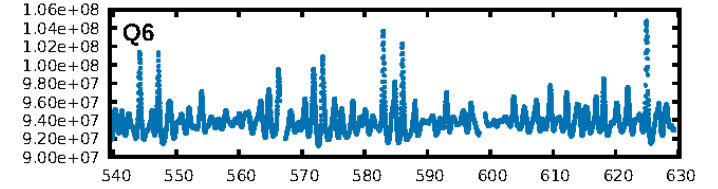
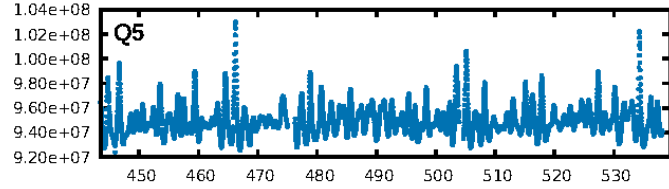
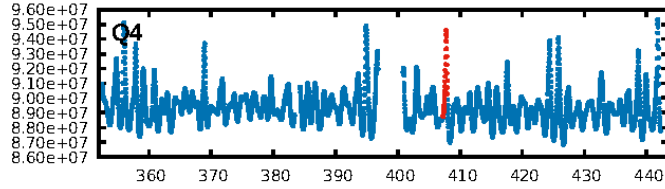
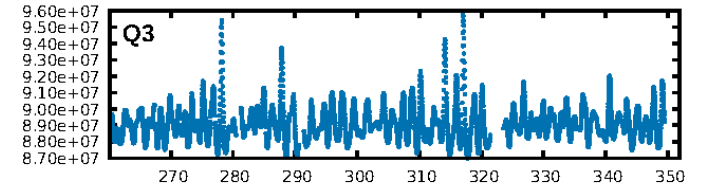
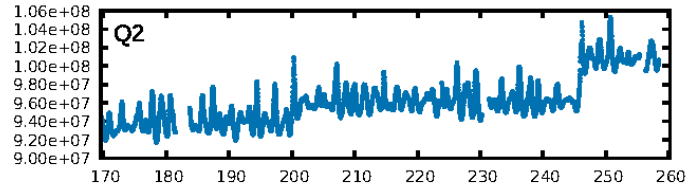
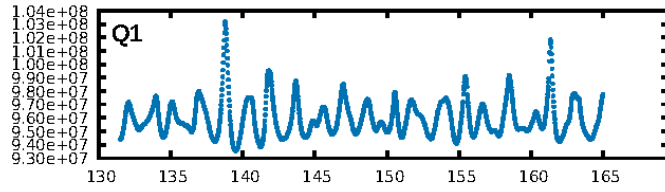
DV Fit Results:

Period = 486.23820 [0.00488] d
Epoch = 407.6289 [0.0033] BKJD
Rp/R* = 0.1637 [0.0912]
a/R* = 264.62 [20.27]
b = 1.00 [0.12]
Seff = 5.09 [1.84]
Teq = 383 [35] K
Rp = 33.75 [21.06] Re
a = 1.4020 [0.3206] AU
Ag = 1995.96 [2480.83] [0.80σ]
Teffp = 3957 [1199] K [2.98σ]

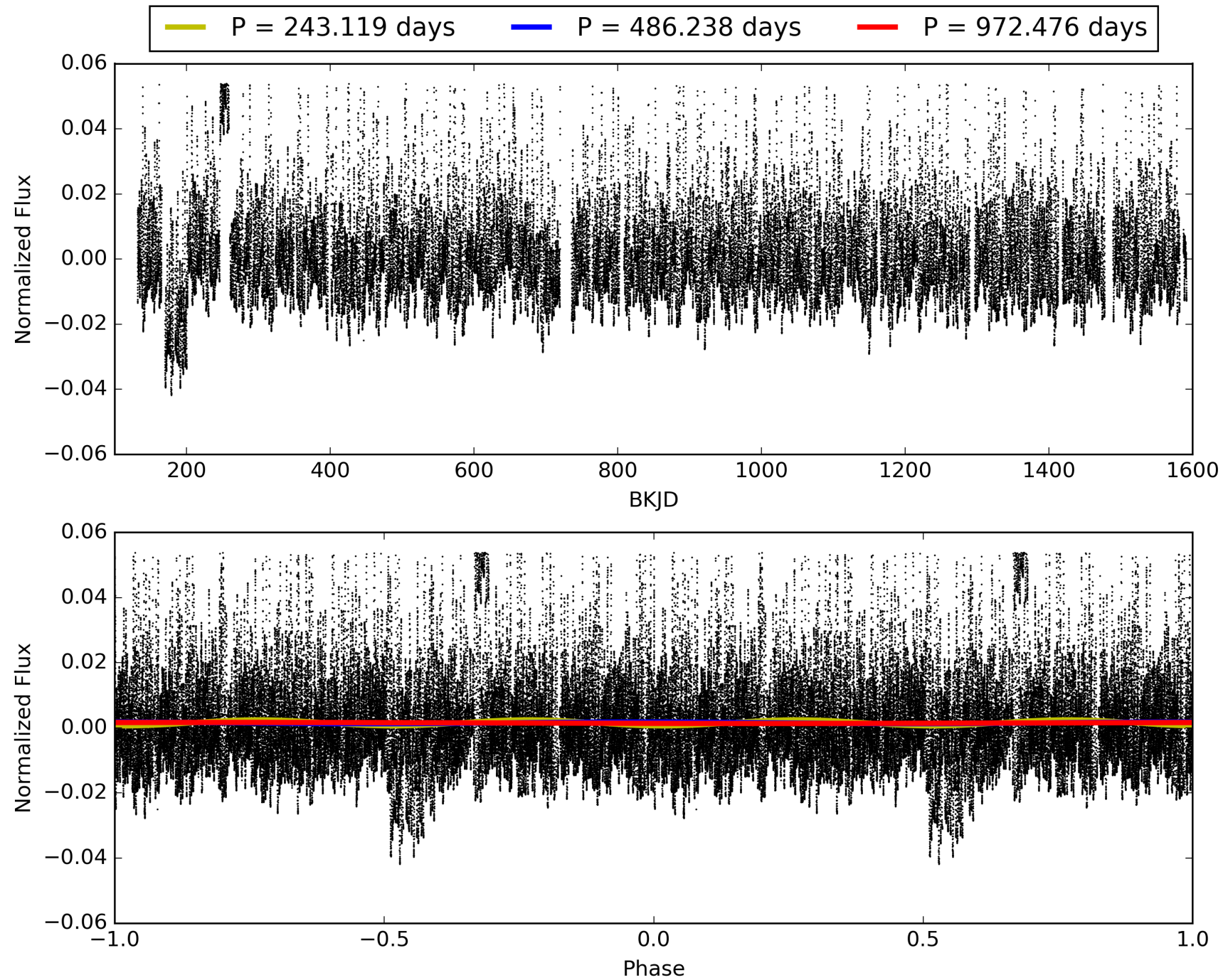
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [143.17σ]
LongPeriod-sig: 100.0% [215.82σ]
ModelChiSquare2-sig: 2.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.76e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 18.2
Centroid-sig: 48.6%
Centroid-so: 0.062 arcsec [1.30σ]
OotOffset-rm: 0.037 arcsec [0.55σ]
KicOffset-rm: 0.116 arcsec [1.36σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 007672492-03, PDC Light Curves

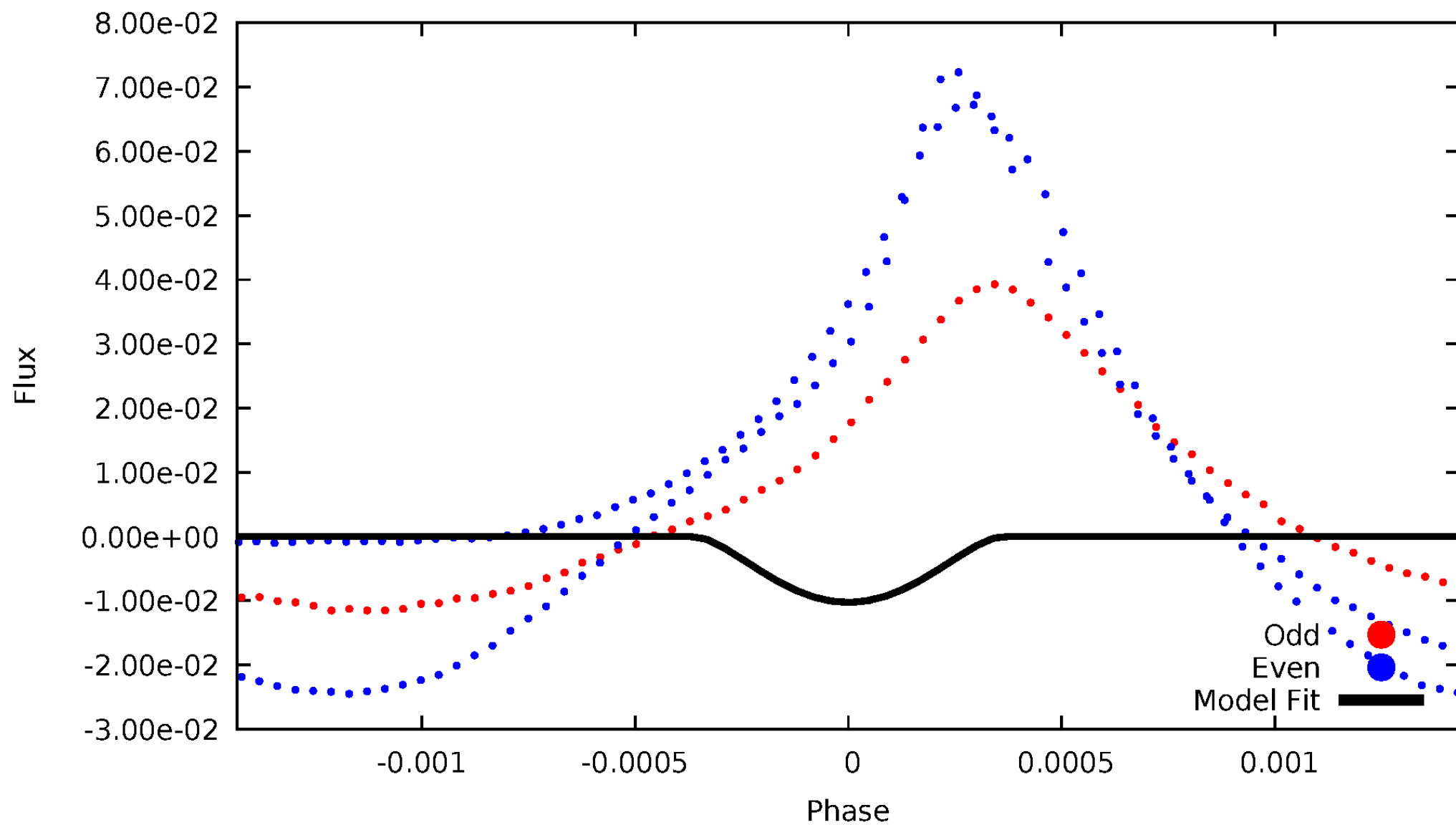


TCE 007672492-03



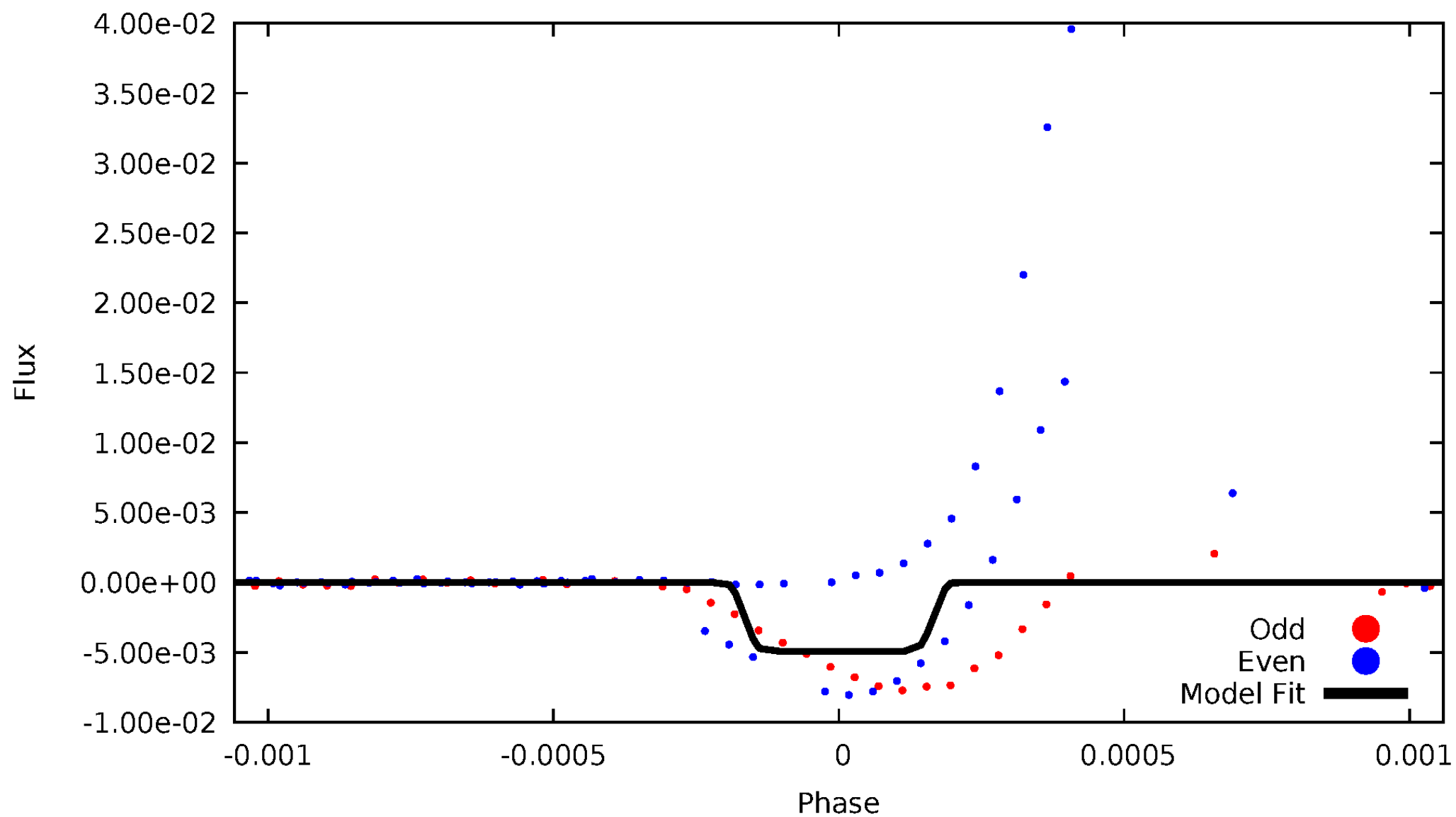
DV Odd/Even

TCE 007672492-03



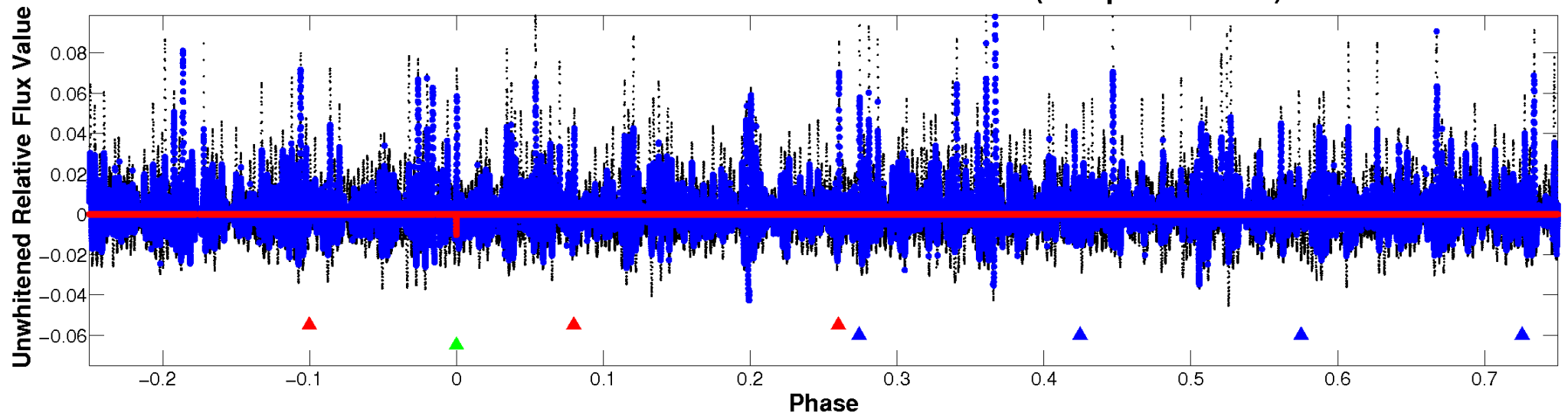
ALT Odd/Even

TCE 007672492-03

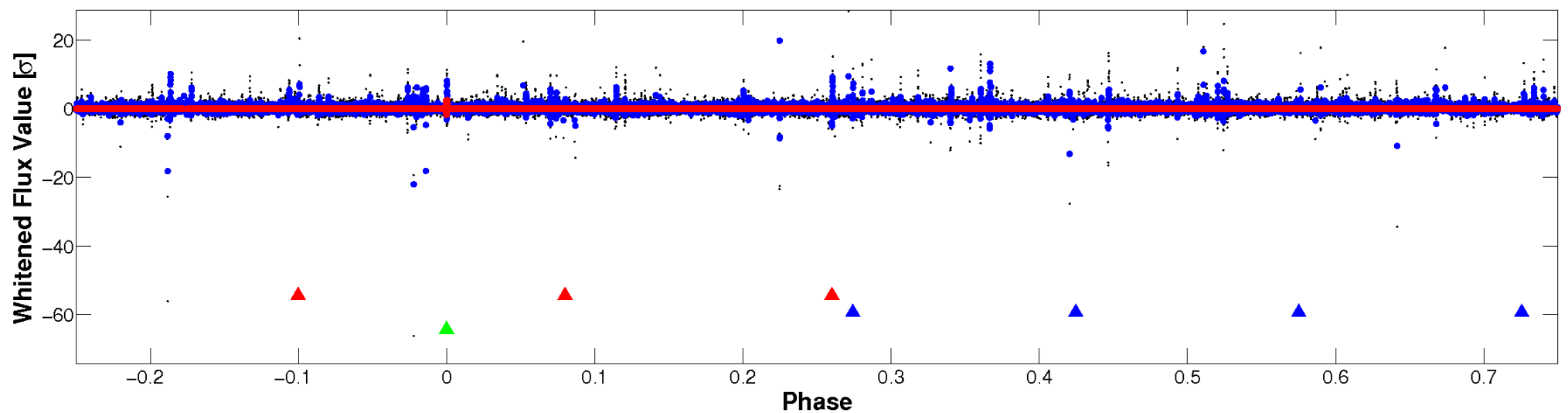


Non-Whitened Vs. Whitened Light Curve

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

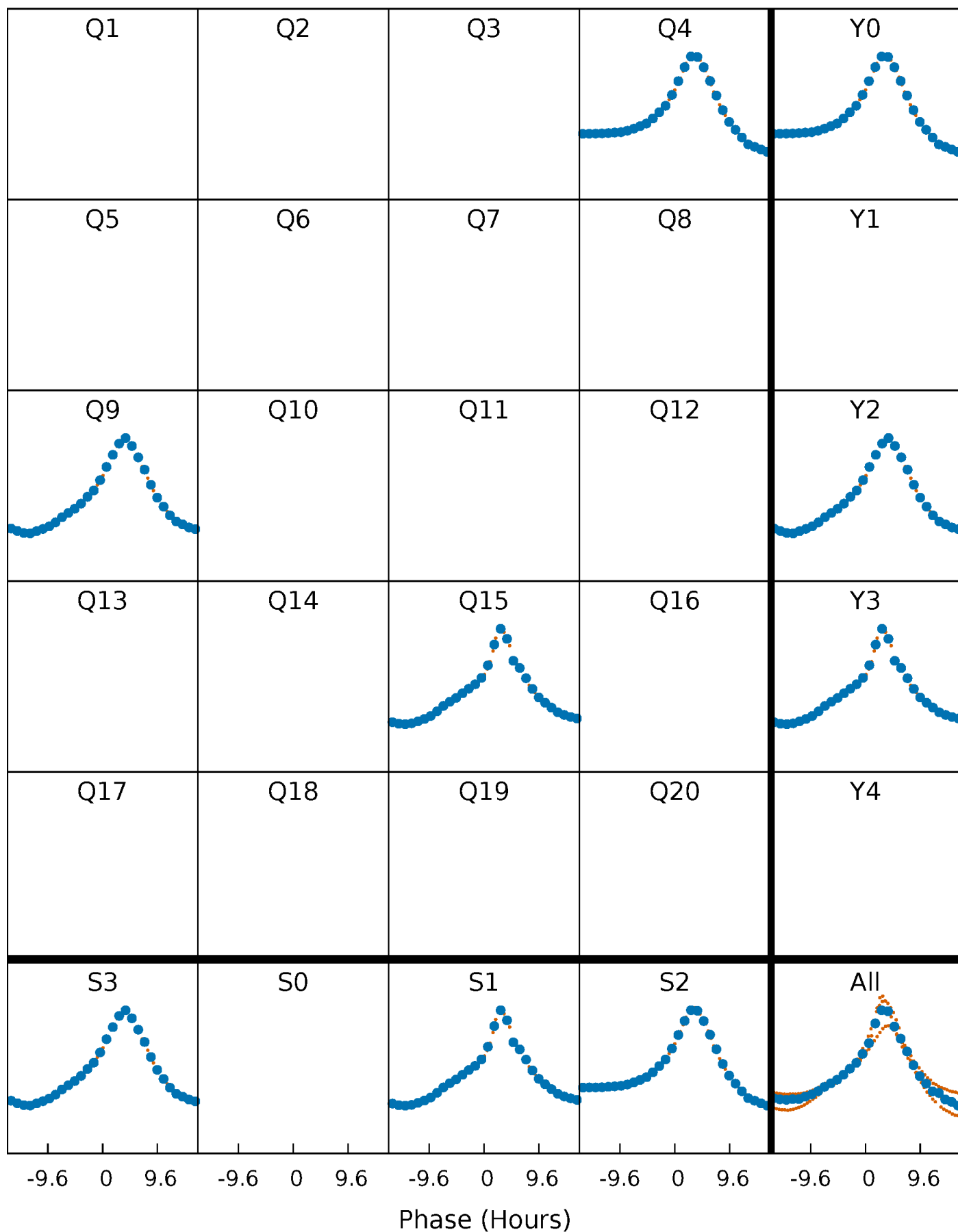


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



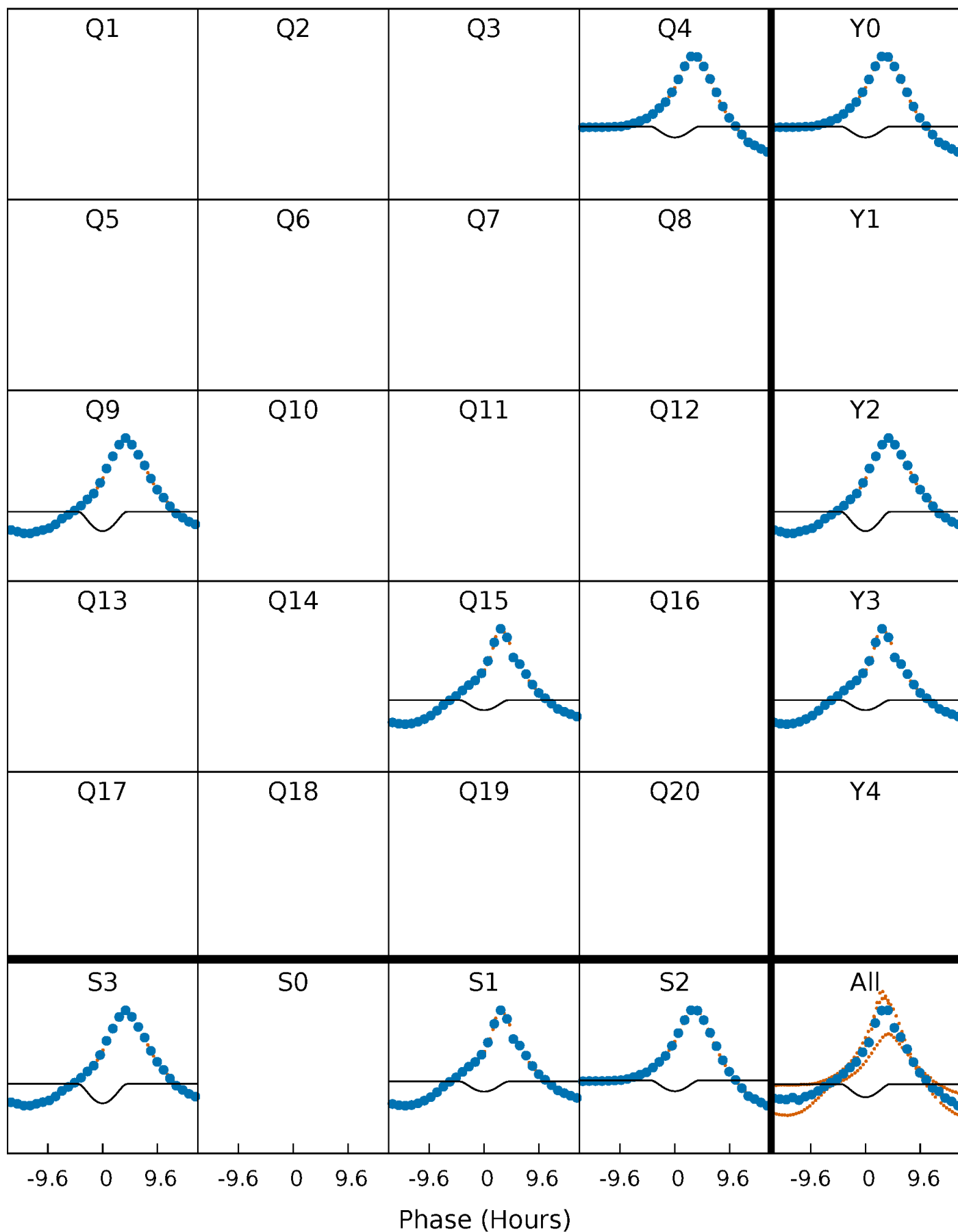
PDC Quarter-Phased Transit Curves

TCE 007672492-03 P=486.238196 Days $T_0=407.628858$ (BKJD)



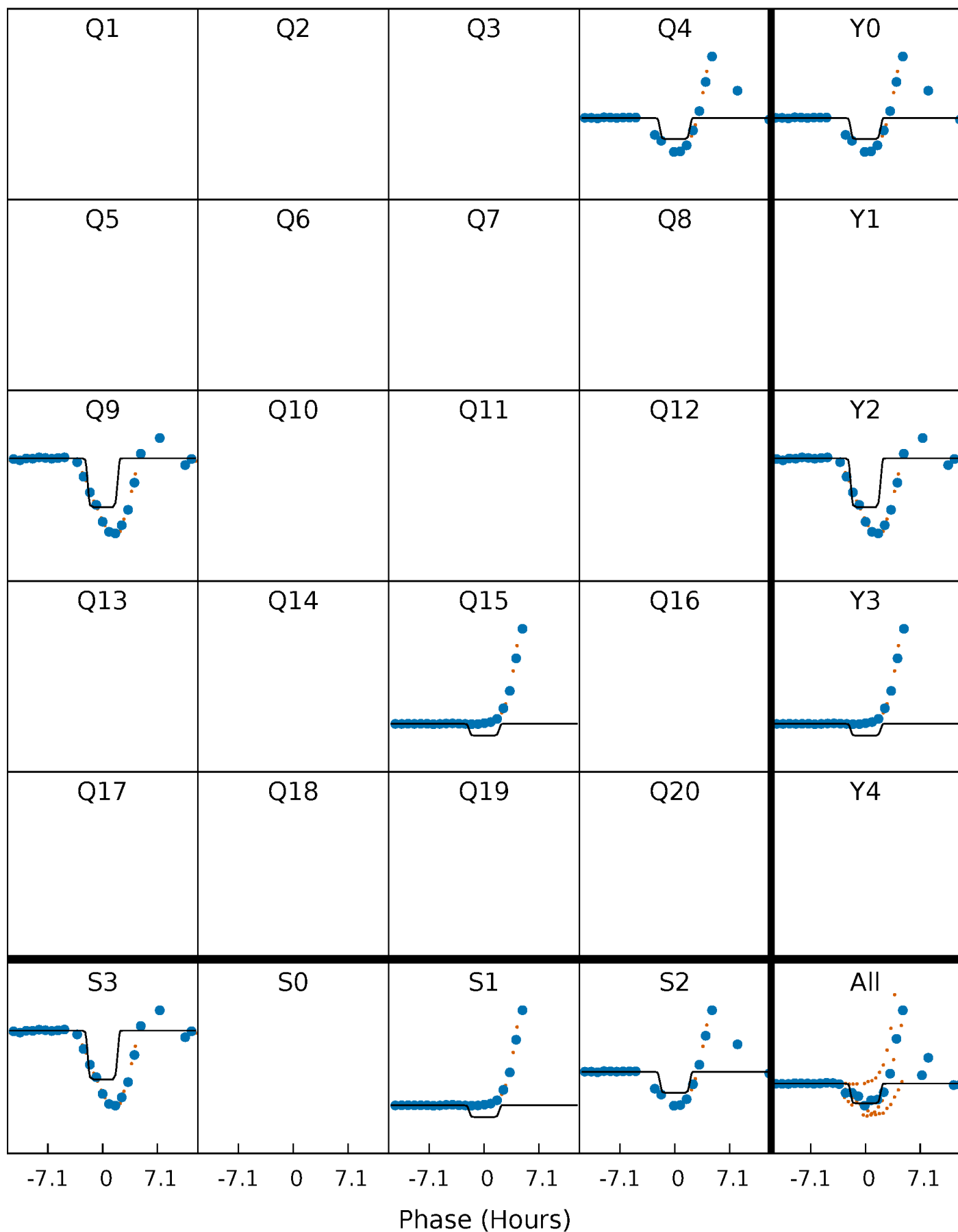
DV Quarter-Phased Transit Curves

TCE 007672492-03 $P=486.238196$ Days $T_0=407.628858$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

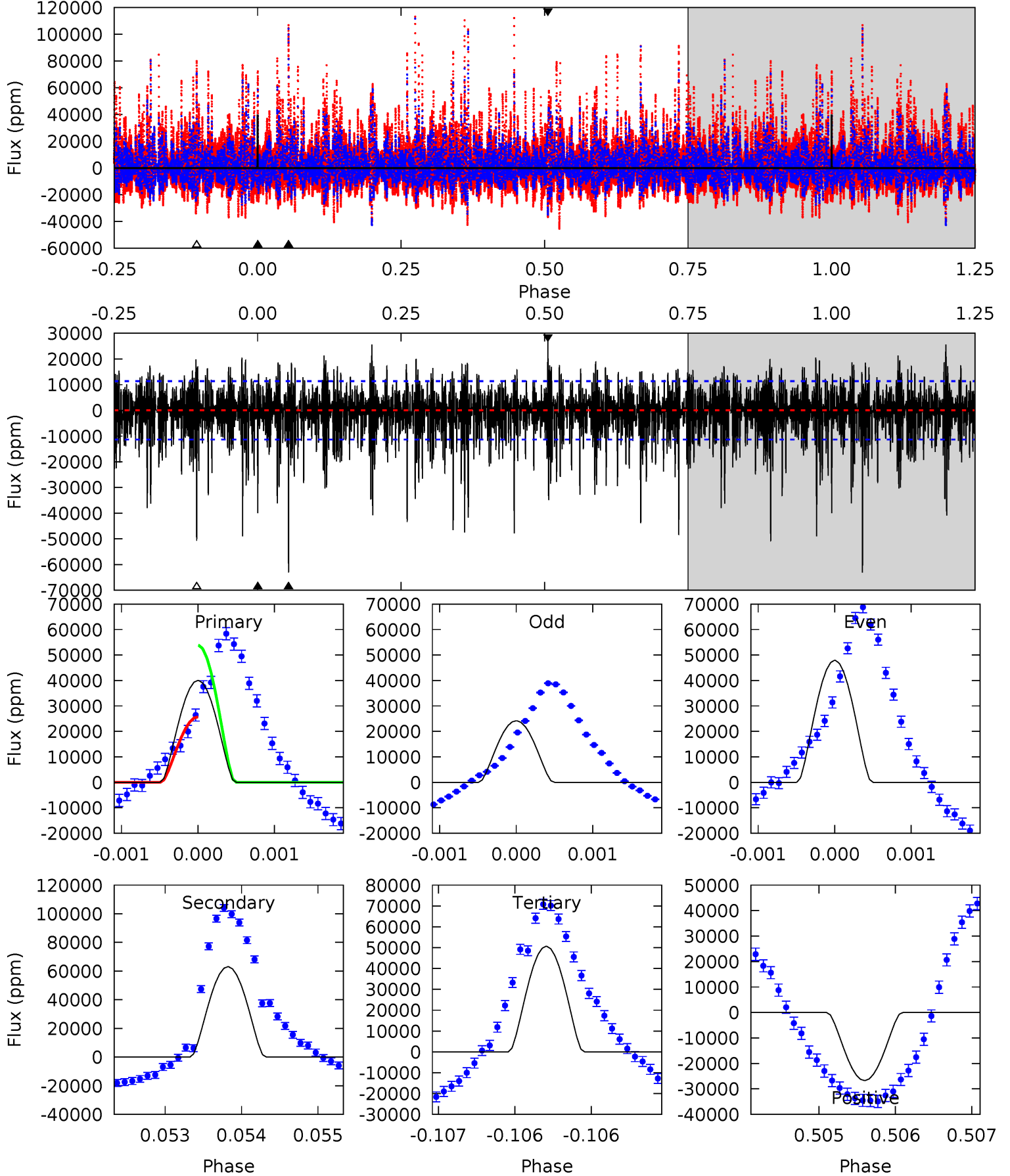
TCE 007672492-03 P=486.236994 Days $T_0=407.538309$ (BKJD)



DV Model-Shift Uniqueness Test

007672492-03, P = 486.238196 Days, E = 407.628858 Days

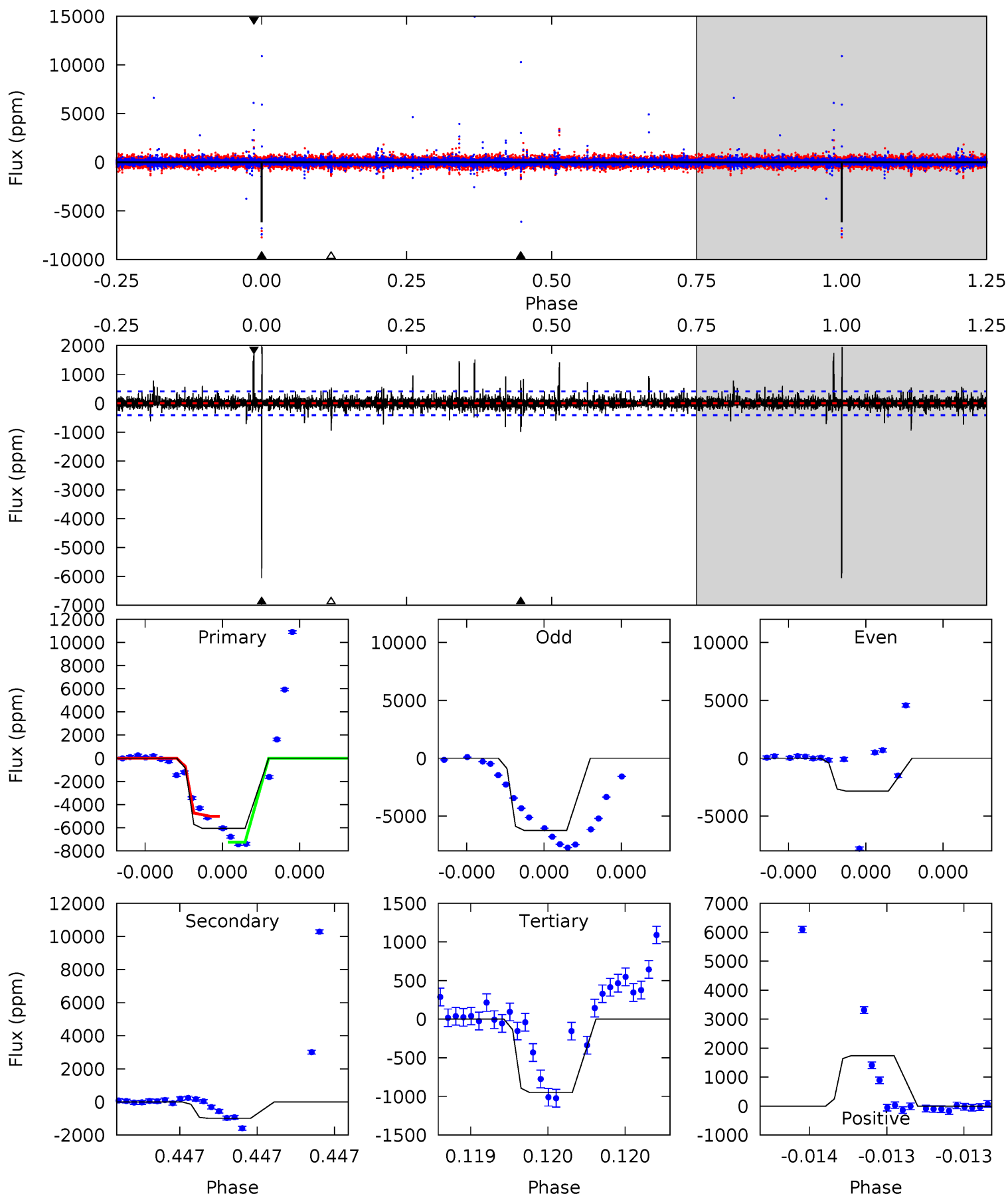
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.4	30.5	24.5	12.9	5.50	3.37	4.54	-5.15	6.44	6.00	17.6	5.47	0.87	0.30	6.86



Alt Model-Shift Uniqueness Test

007672492-03, P = 486.236994 Days, E = 407.538309 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
82.6	13.5	13.0	23.8	5.62	3.55	1.30	69.7	58.9	0.52	-10.3	20.0	0.69	0.24	0



Stellar Parameters For KIC 007672492

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7478^{+235}_{-314}	$4.077^{+0.170}_{-0.170}$	$-0.180^{+0.200}_{-0.350}$	$1.889^{+0.532}_{-0.435}$	$1.552^{+0.212}_{-0.259}$	$0.324^{+0.301}_{-0.158}$
	+3%/-4%	+4%/-4%	+111%/-194%	+28%/-23%	+14%/-17%	+93%/-49%
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 007672492-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-63060 ± 2066	$34.04^{+21.24}_{-16.27}$	531^{+40}_{-38}	9829^{+7088}_{-2484}	$62036^{+158379}_{-38281}$
Alt.	-987 ± 73	$19.35^{+16.04}_{-12.17}$	533^{+40}_{-36}	4433^{+2528}_{-832}	2857^{+17372}_{-2009}

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 $A_{obs} \gg 1.0$

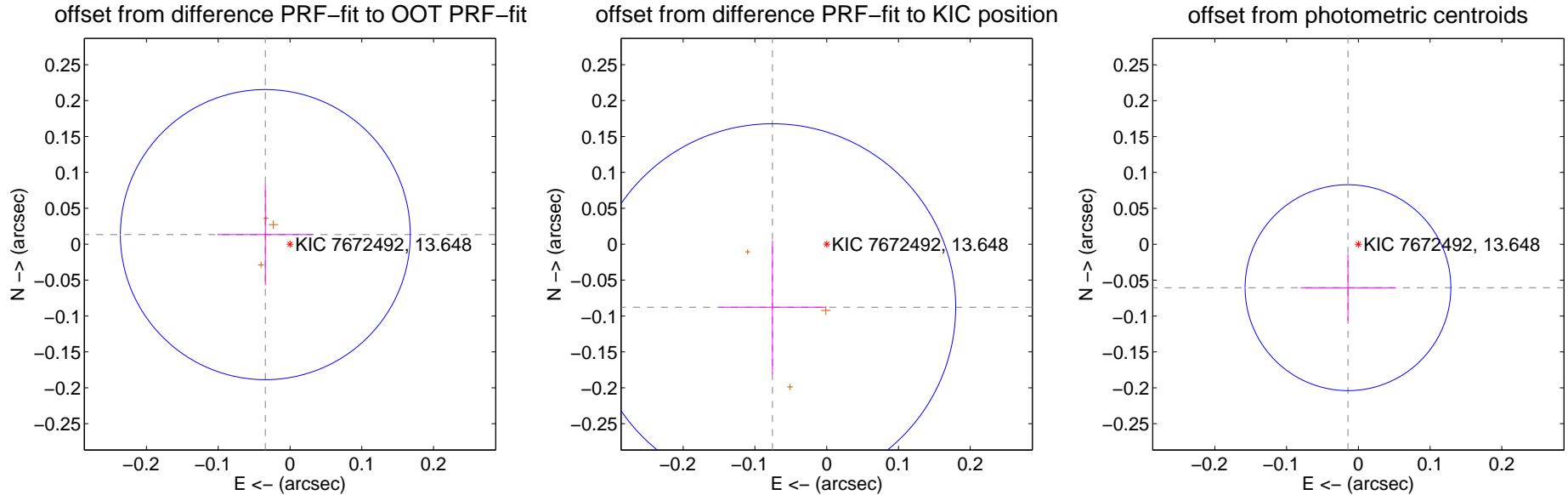
DV Centroid Data

Supplemental centroid analysis for 007672492-03. Kepler magnitude: 13.65. Transit SNR 8.08

There are 0 quarters with good PRF difference image offsets

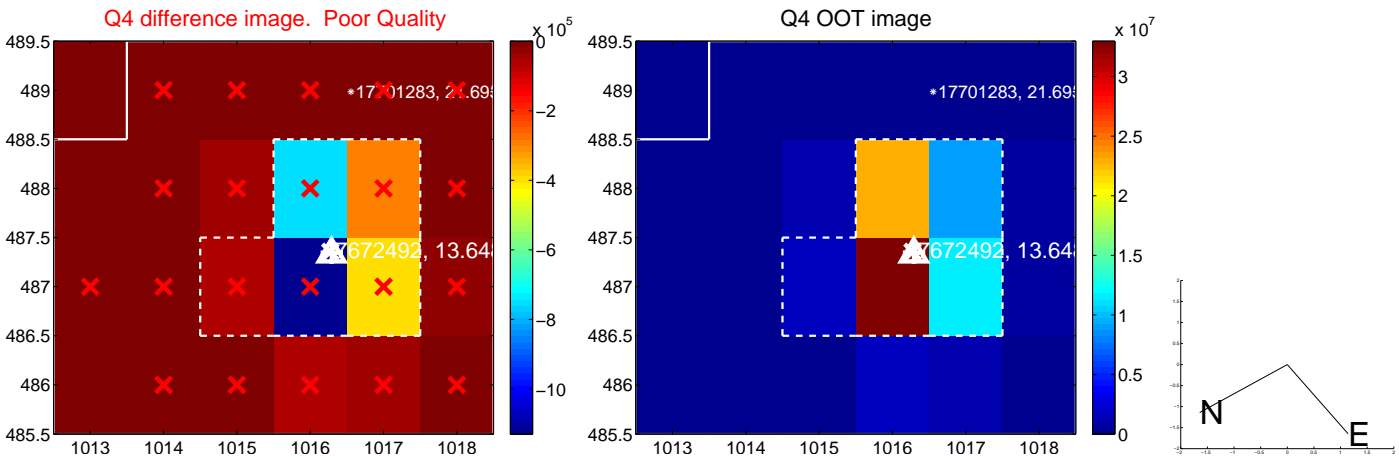
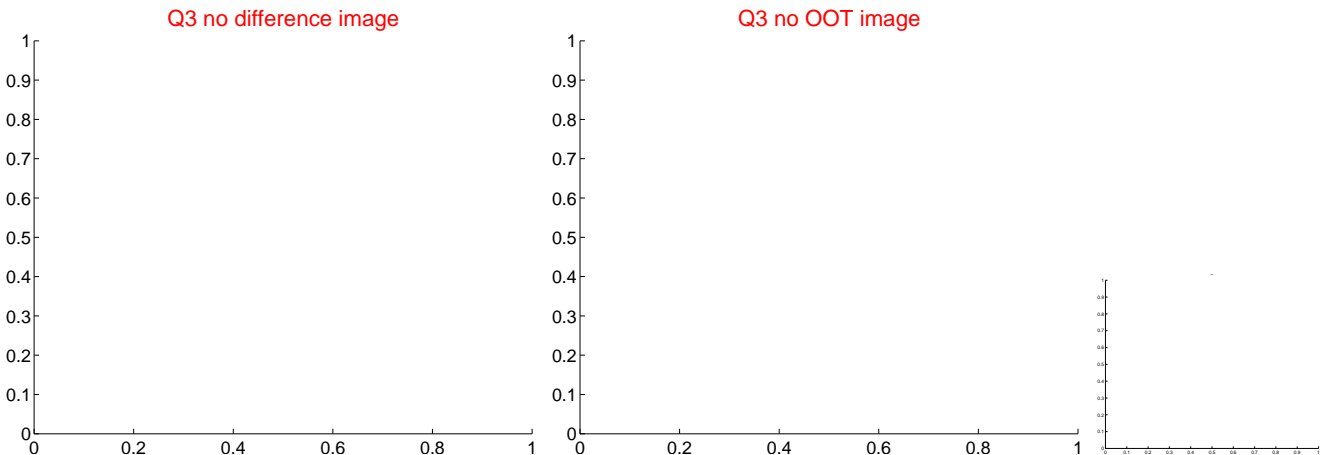
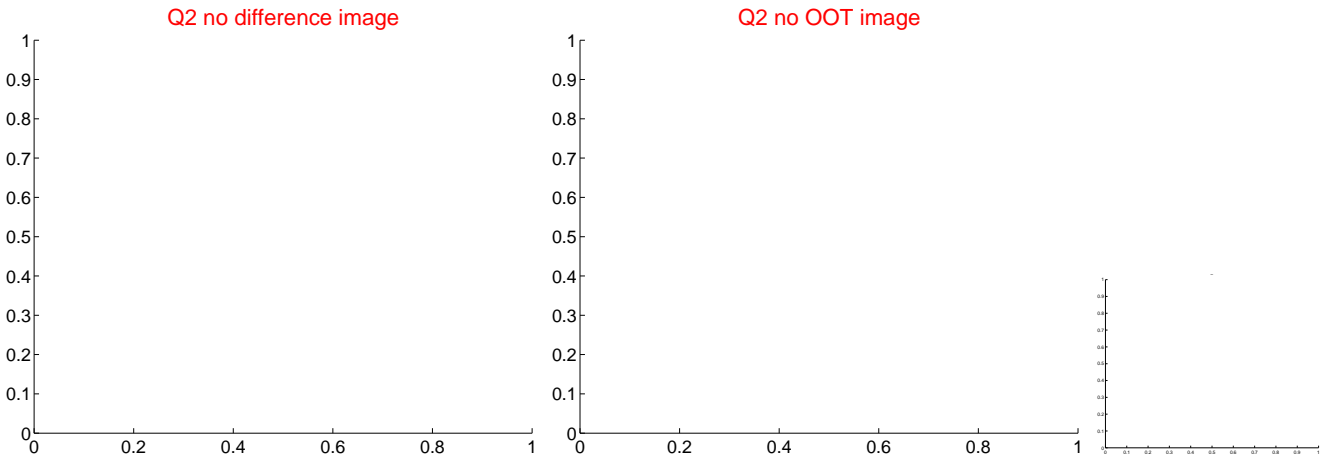
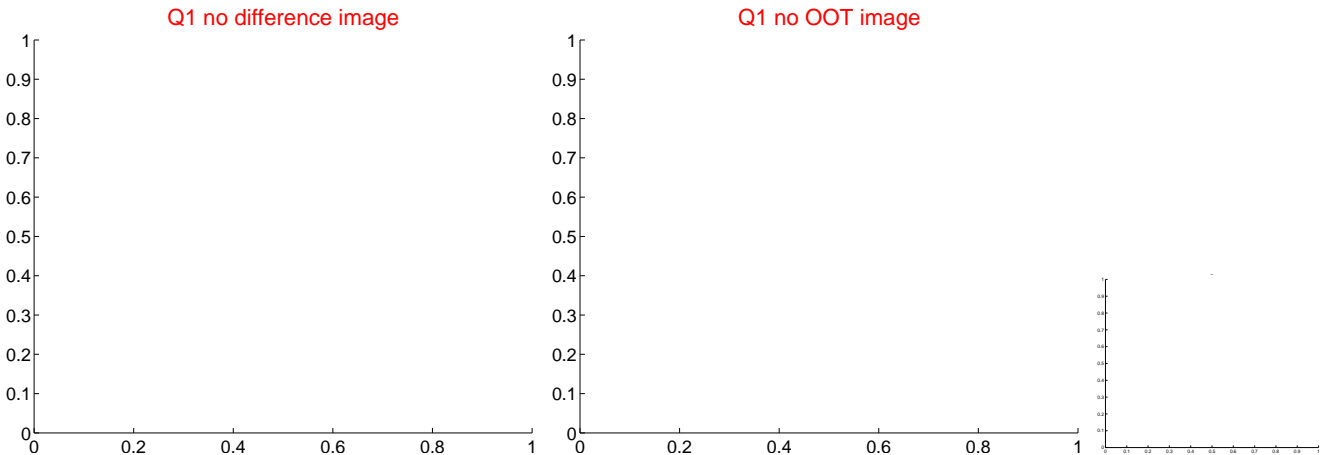
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.037 ± 0.067	0.55	0.034 ± 0.067	0.013 ± 0.071
PRF-fit source offset from KIC position	0.116 ± 0.085	1.36	0.076 ± 0.074	-0.088 ± 0.093
photometric centroid source offset	0.06 ± 0.05	1.30	0.01 ± 0.07	-0.06 ± 0.05



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

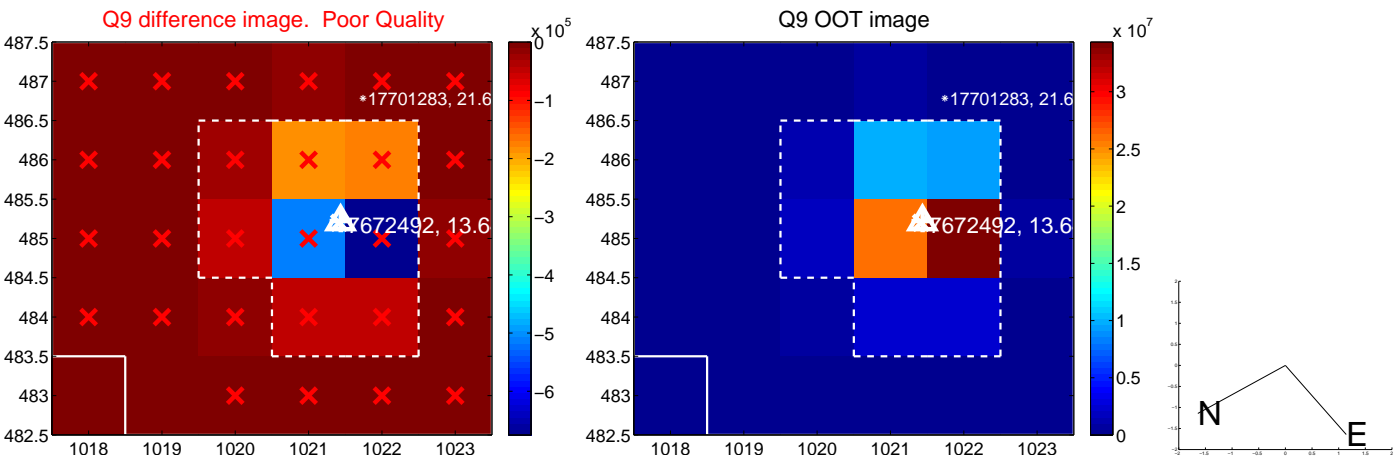
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



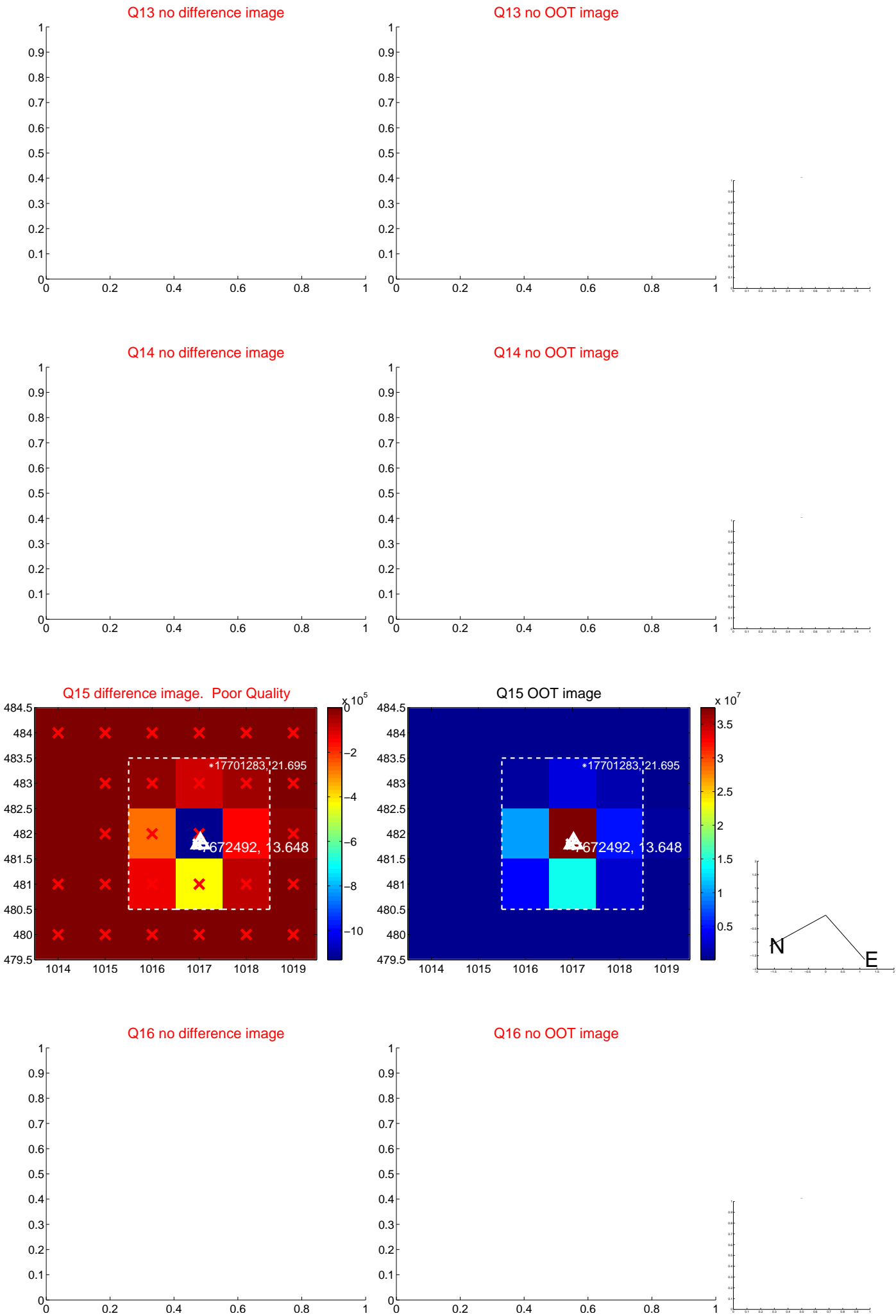
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



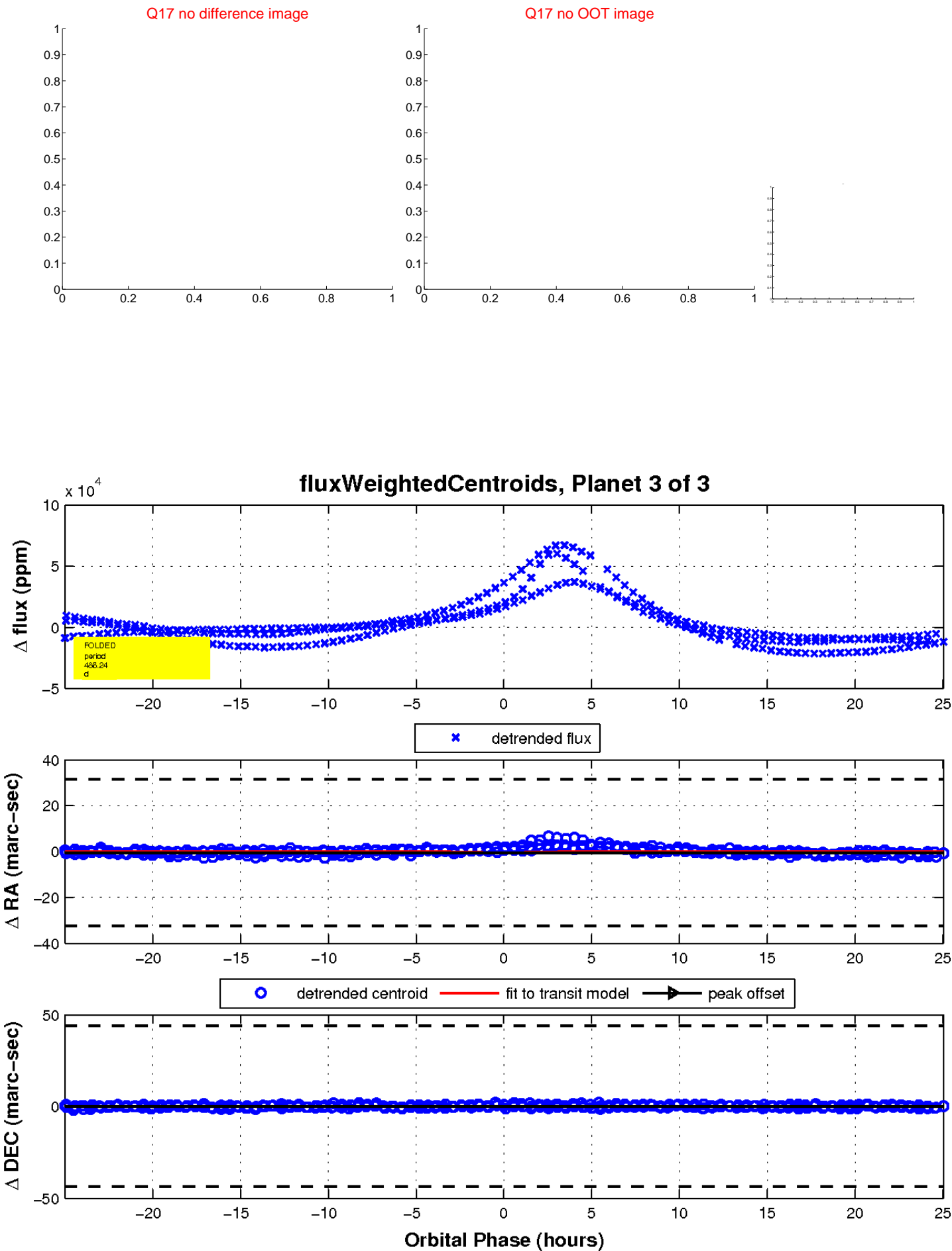
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

