

KIC 007348667

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})
007348667-01	OBS	No	422.394882	201.731113	1402.8	9.824	14.5	7.1	0.98	5759	3.68	0.92
007348667-02	OBS	No	433.694109	495.581325	1227.4	7.540	11.9	7.0	0.98	5759	3.62	0.89
007348667-03	OBS	No	418.675228	285.937048	1192.0	6.004	11.4	6.8	0.98	5759	3.57	0.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007348667-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_MEAS
007348667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007348667-03	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—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.

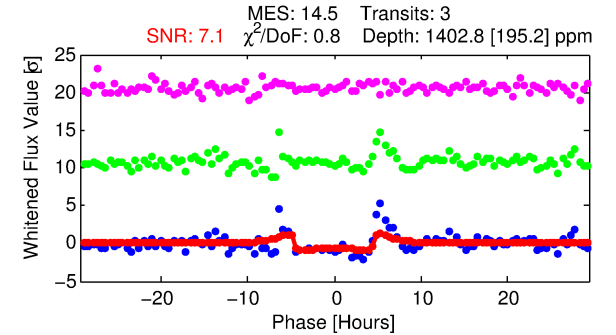
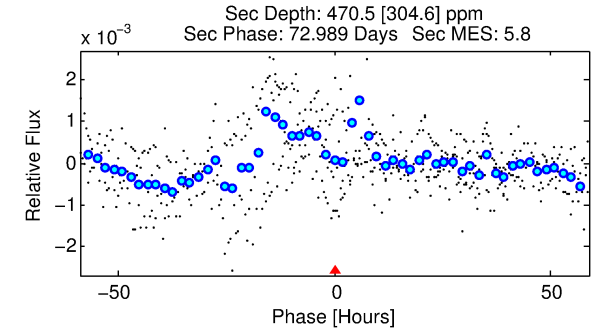
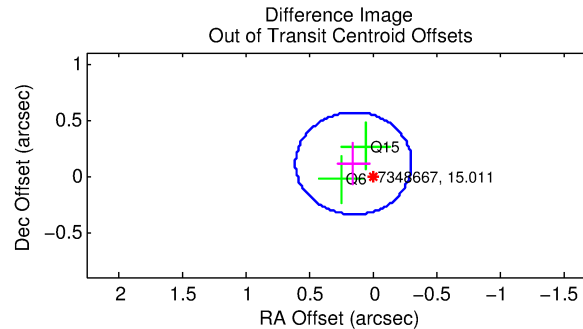
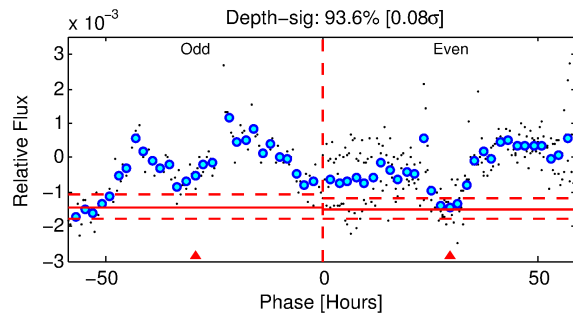
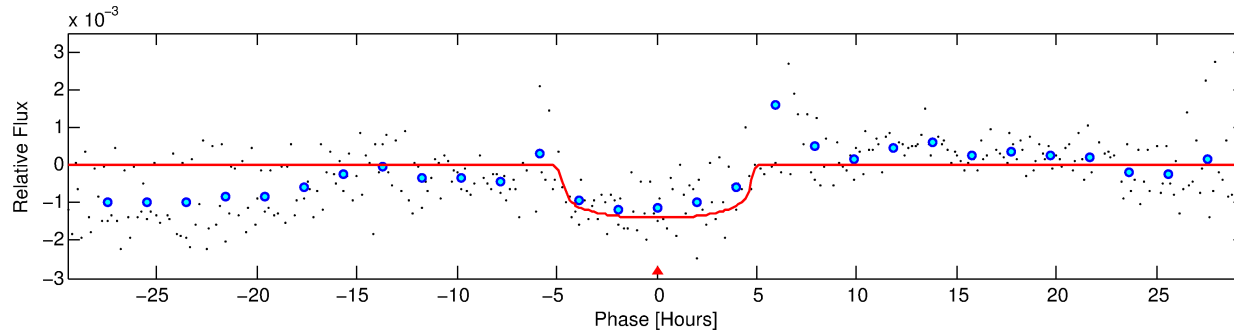
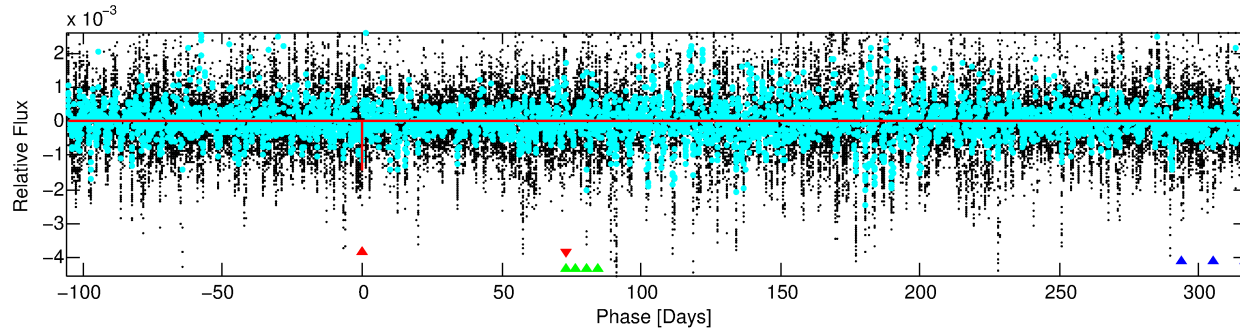
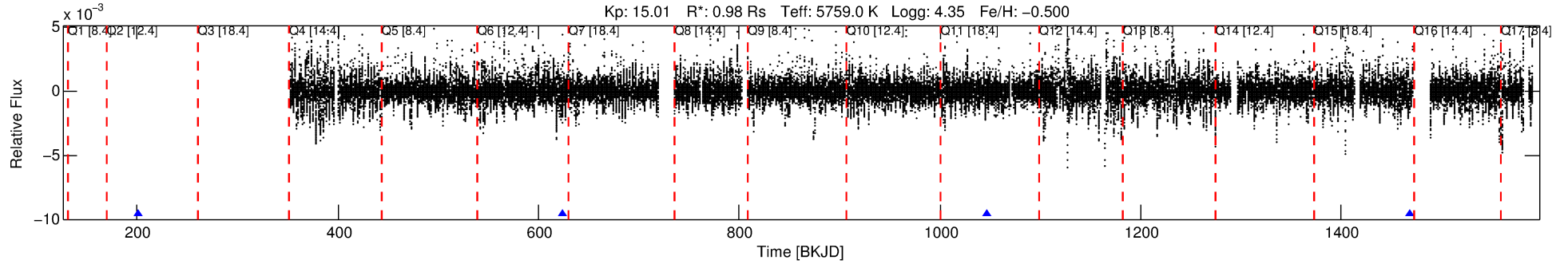
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007348667-01

No Significant Match Found

DV One-Page Summary

KIC: 7348667 Candidate: 1 of 3 Period: 422.395 d



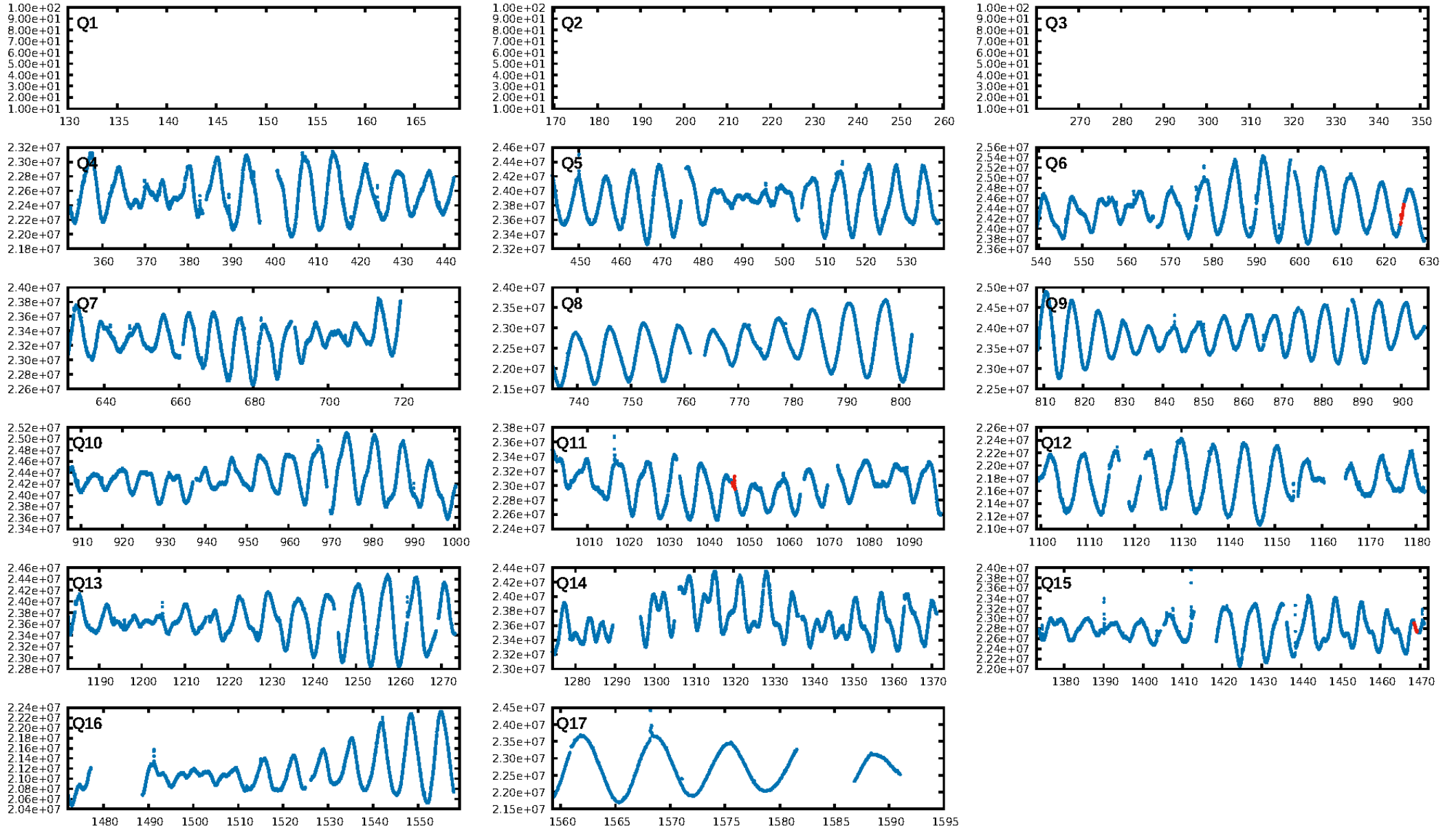
DV Fit Results:

Period = 422.39488 [0.00628] d
Epoch = 201.7311 [0.0146] BKJD
Rp/R* = 0.0344 [0.0155]
a/R* = 330.43 [673.43]
b = 0.24 [8.01]
Seff = 0.92 [0.36]
Teff = 250 [25] K
Rp = 3.68 [1.98] Re
a = 1.0154 [0.2555] AU
Ag = 19705.63 [23056.15] [0.85 σ]
Teffp = 4575 [1278] K [3.38 σ]

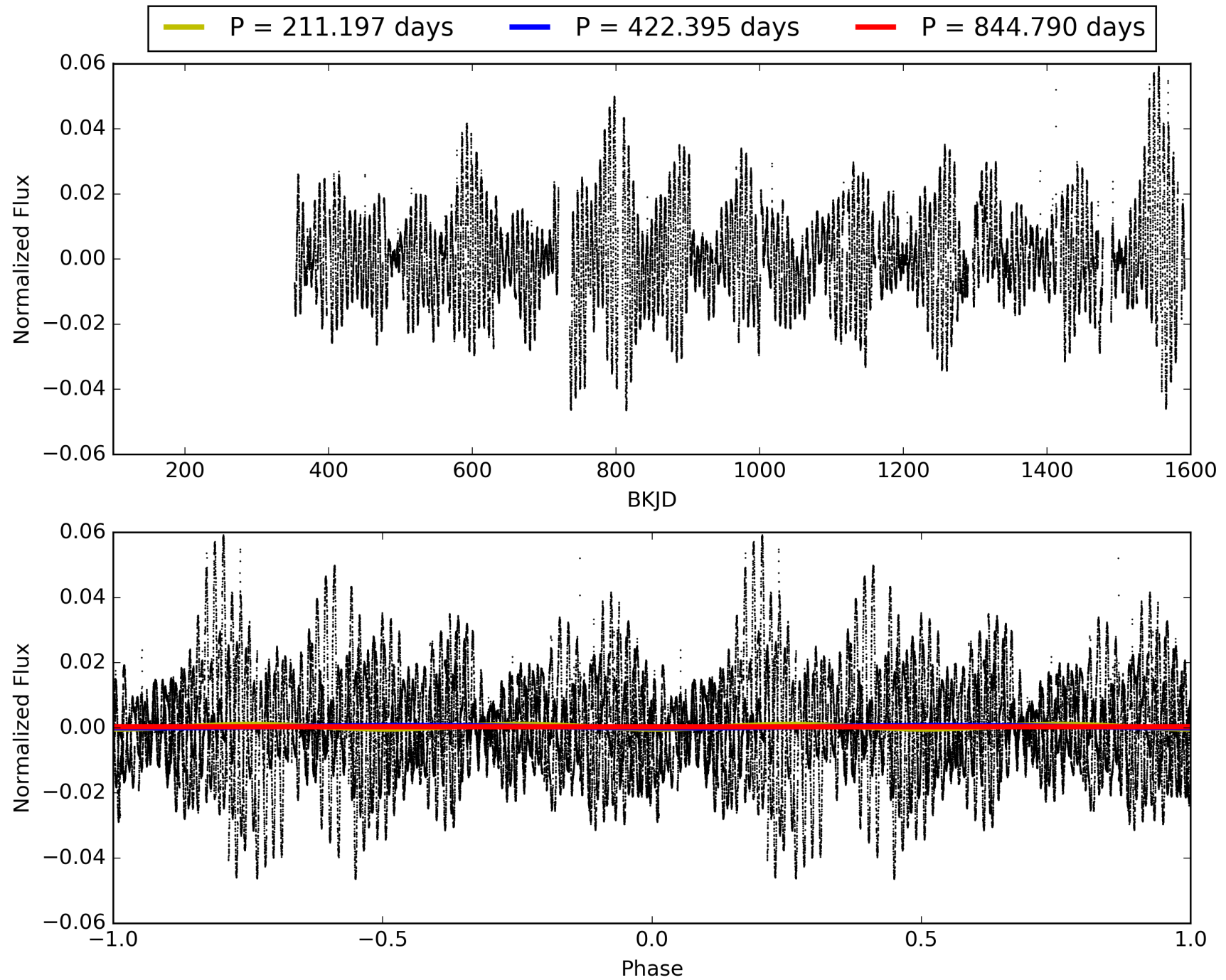
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [7.75 σ]
LongPeriod-sig: 100.0% [21.90 σ]
ModelChiSquare2-sig: 1.1%
ModelChiSquareGof-sig: 99.7%
Bootstrap-pfa: 4.68e-12
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -2.148
Centroid-sig: 84.3%
Centroid-so: 0.763 arcsec [1.05 σ]
OotOffset-rm: 0.186 arcsec [1.22 σ]
OotOffset-st: 1/1/0/0 [2]
KicOffset-rm: 0.325 arcsec [1.79 σ]
KicOffset-st: 1/1/0/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 007348667-01, PDC Light Curves

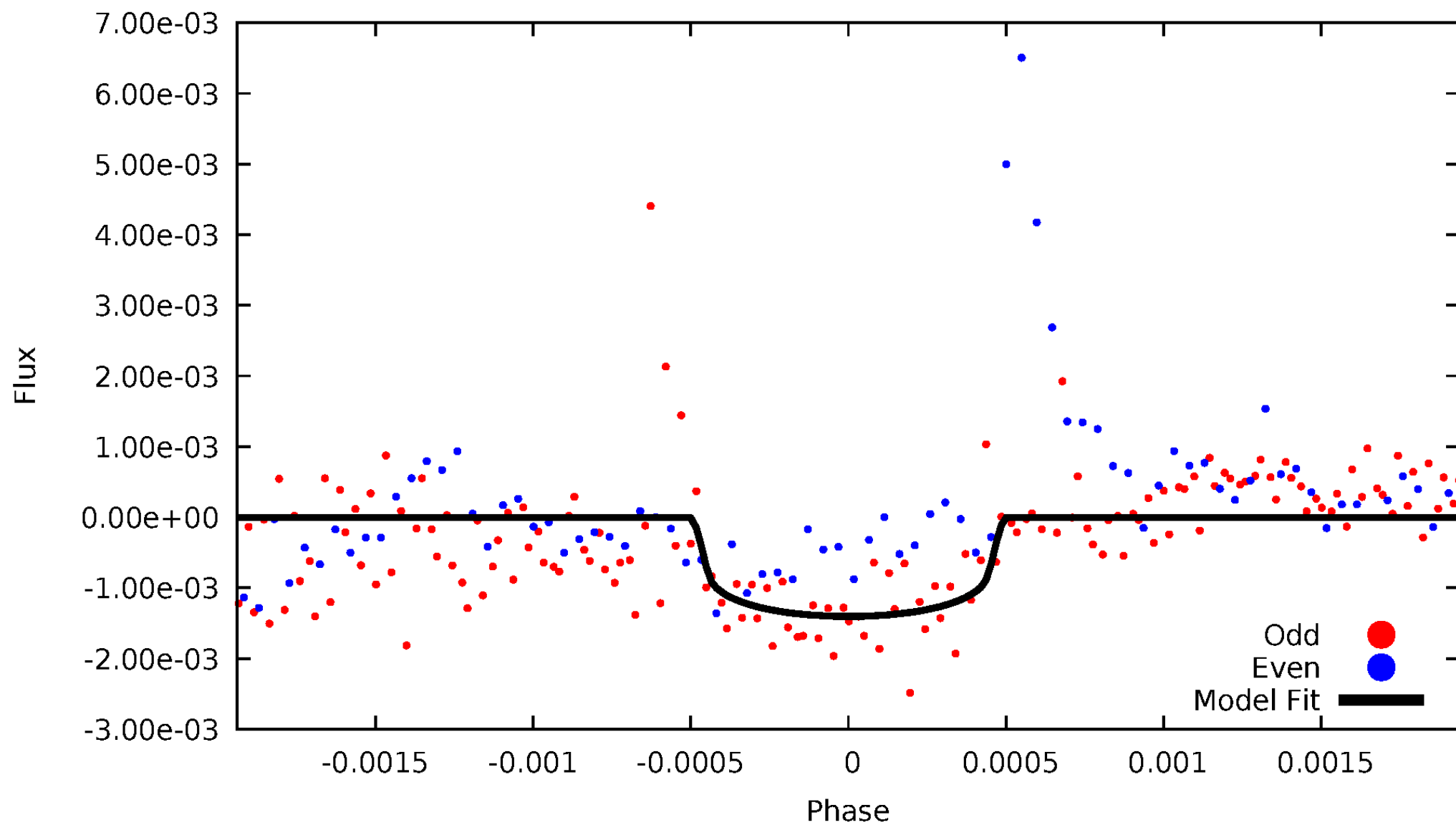


TCE 007348667-01



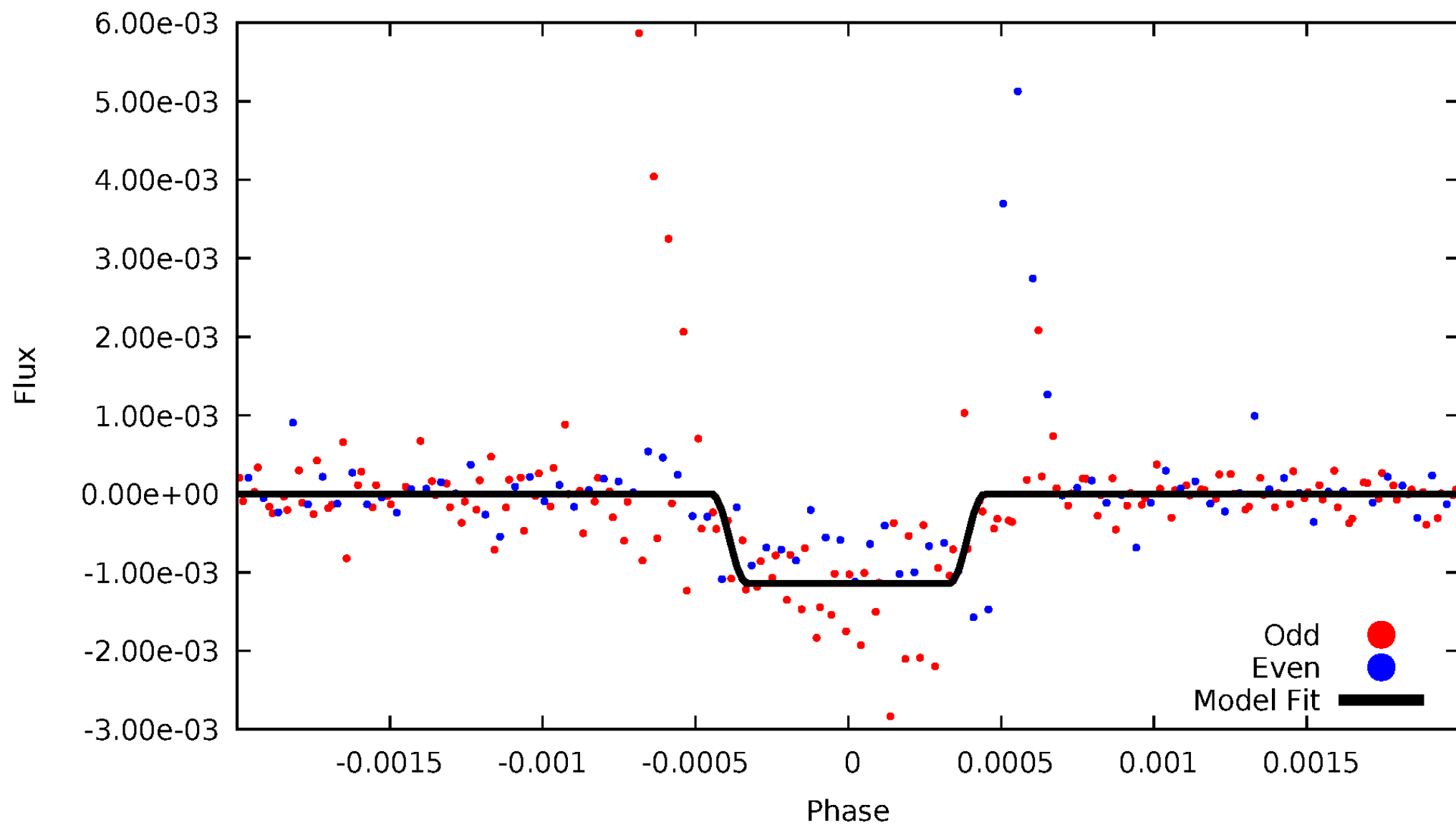
DV Odd/Even

TCE 007348667-01

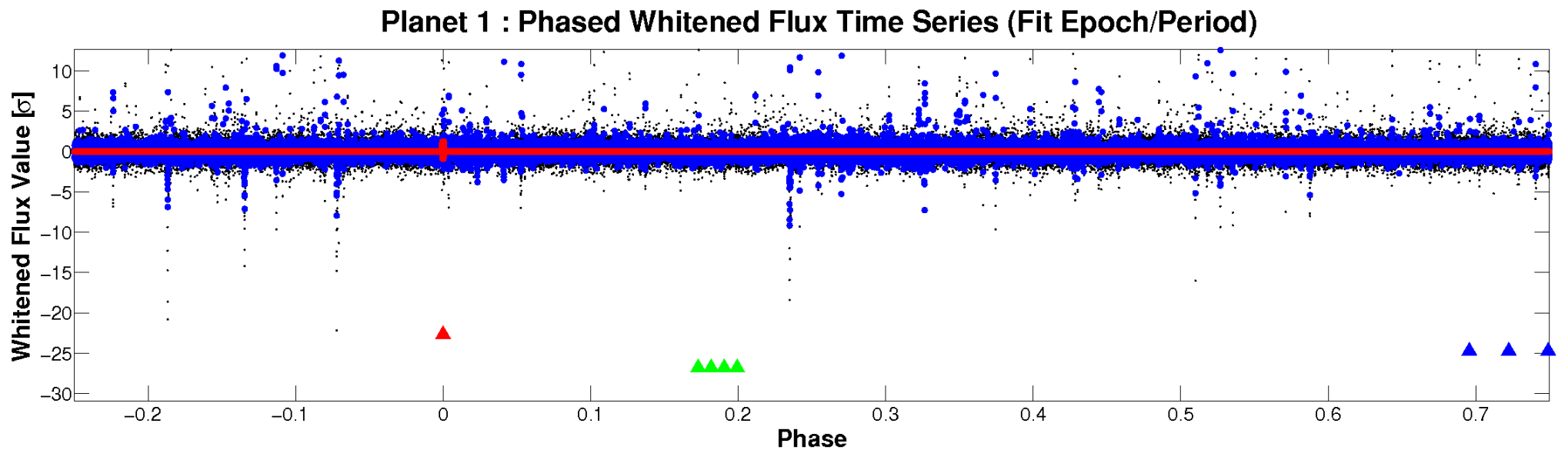
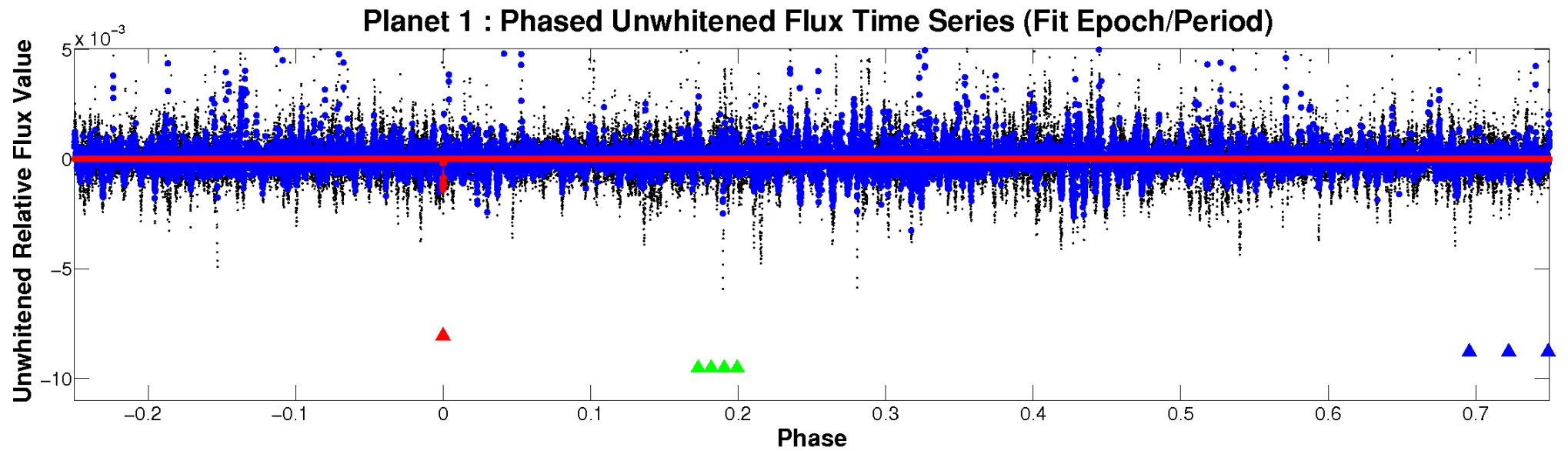


ALT Odd/Even

TCE 007348667-01

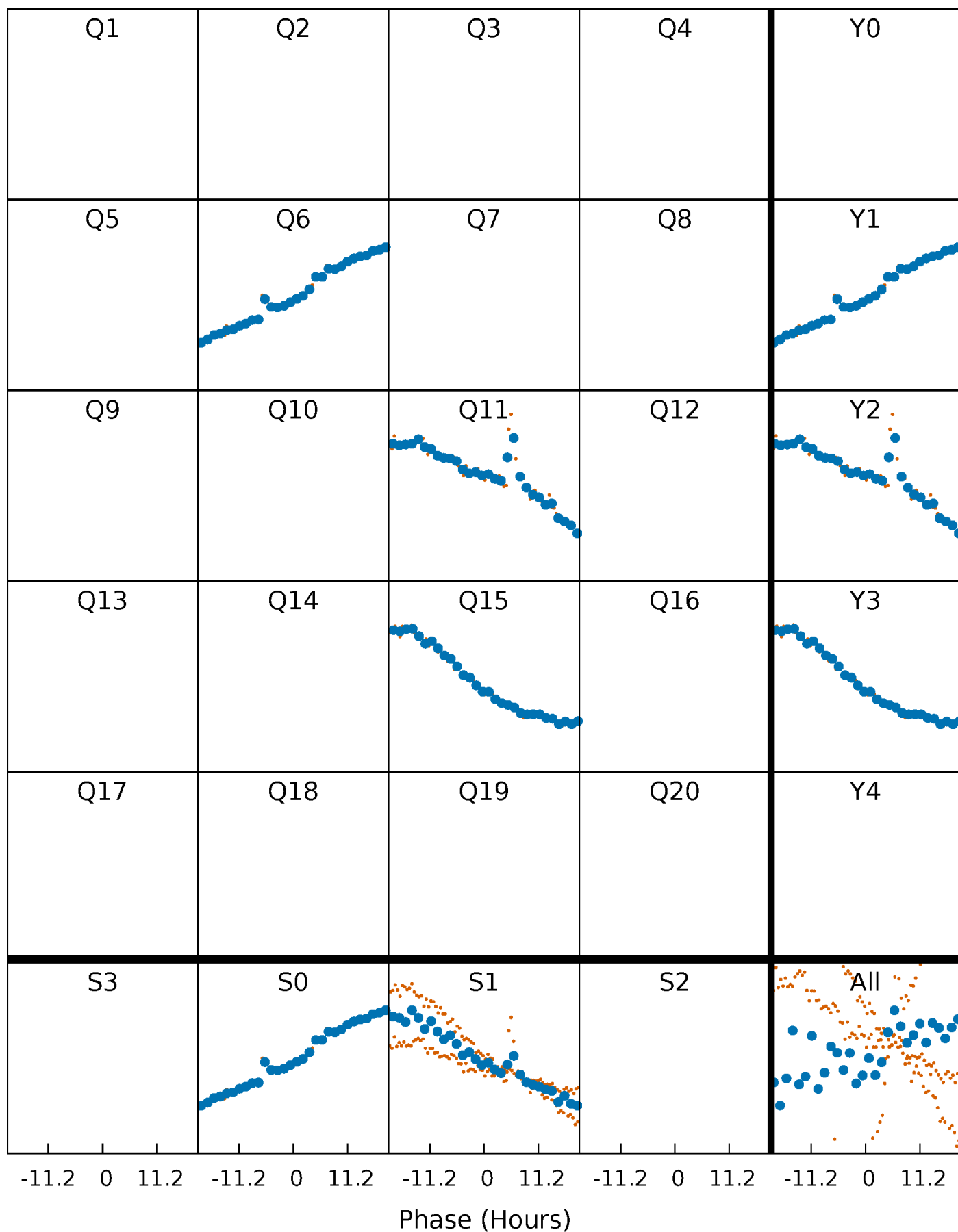


Non-Whitened Vs. Whitened Light Curve



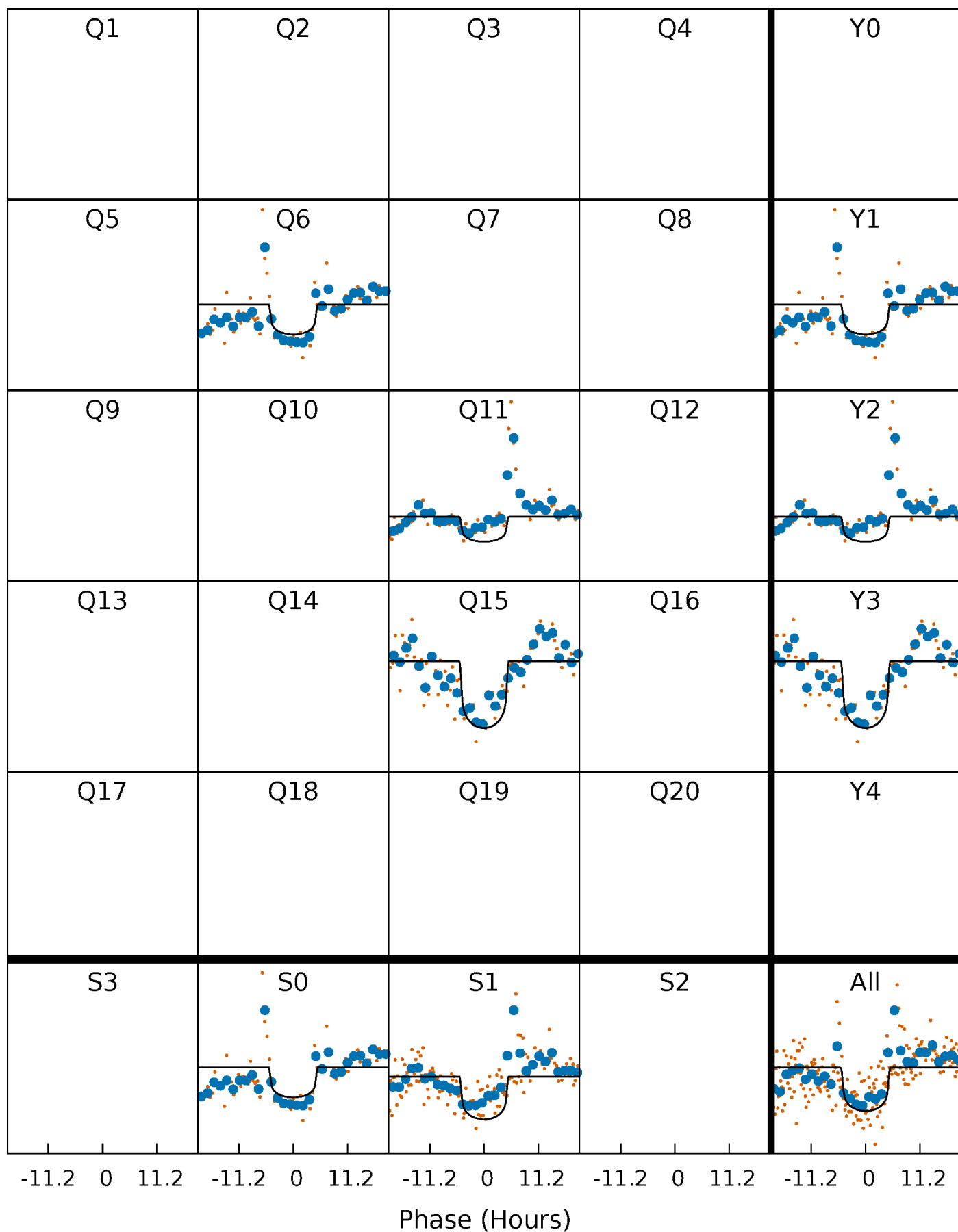
PDC Quarter-Phased Transit Curves

TCE 007348667-01 P=422.394882 Days $T_0=201.731113$ (BKJD)



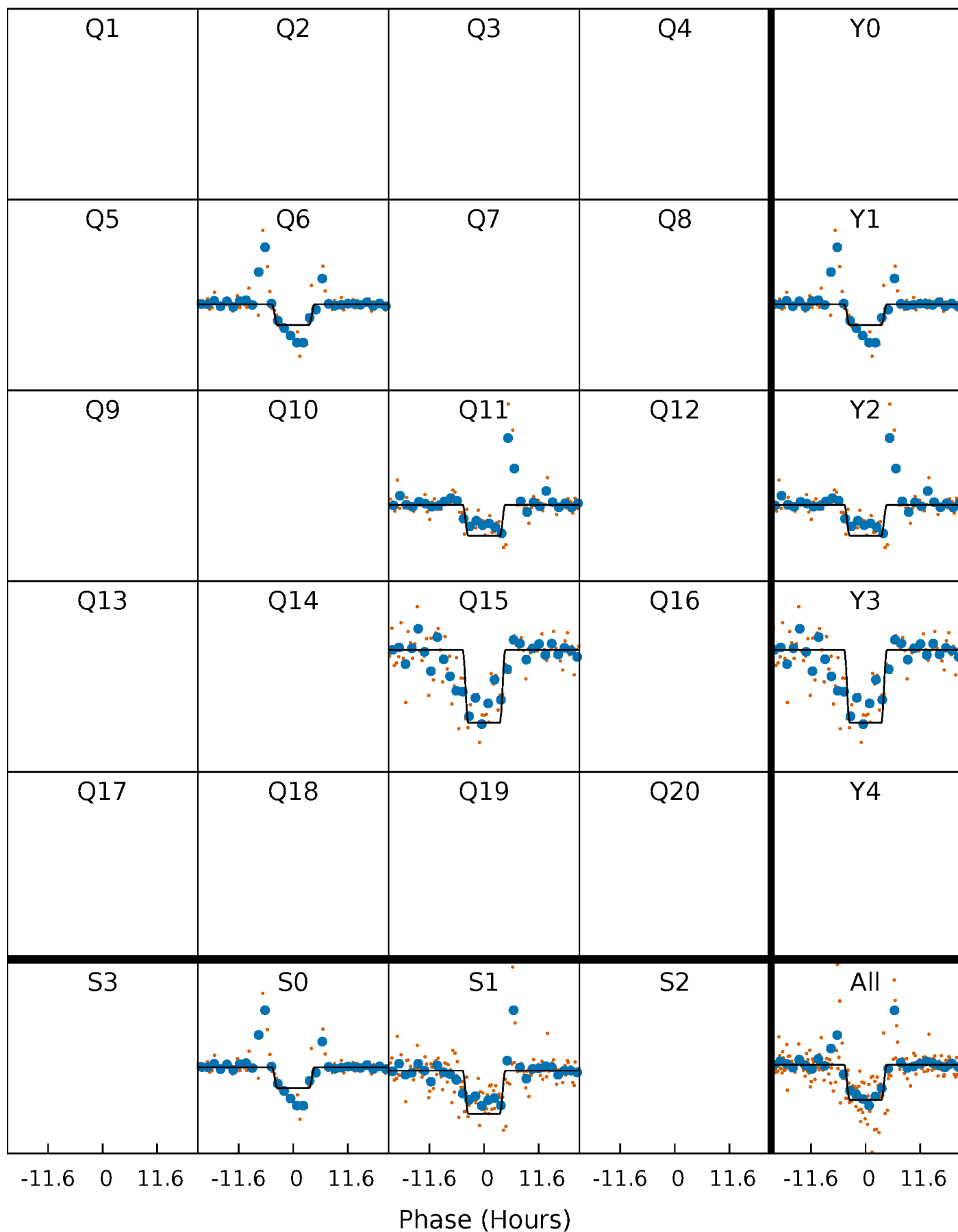
DV Quarter-Phased Transit Curves

TCE 007348667-01 P=422.394882 Days $T_0=201.731113$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

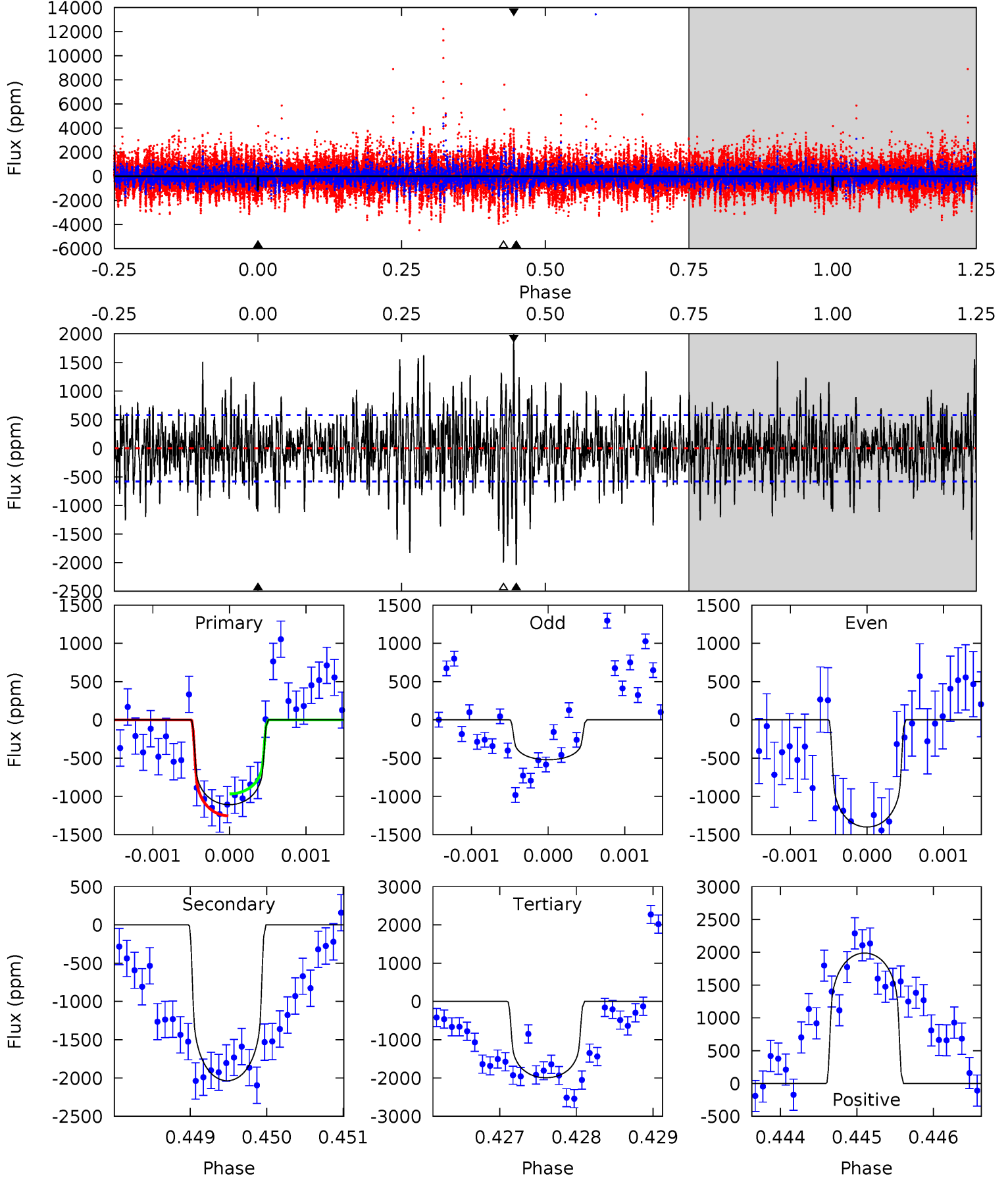
TCE 007348667-01 P=422.368496 Days $T_0=201.781751$ (BKJD)



DV Model-Shift Uniqueness Test

007348667-01, P = 422.394882 Days, E = 201.731113 Days

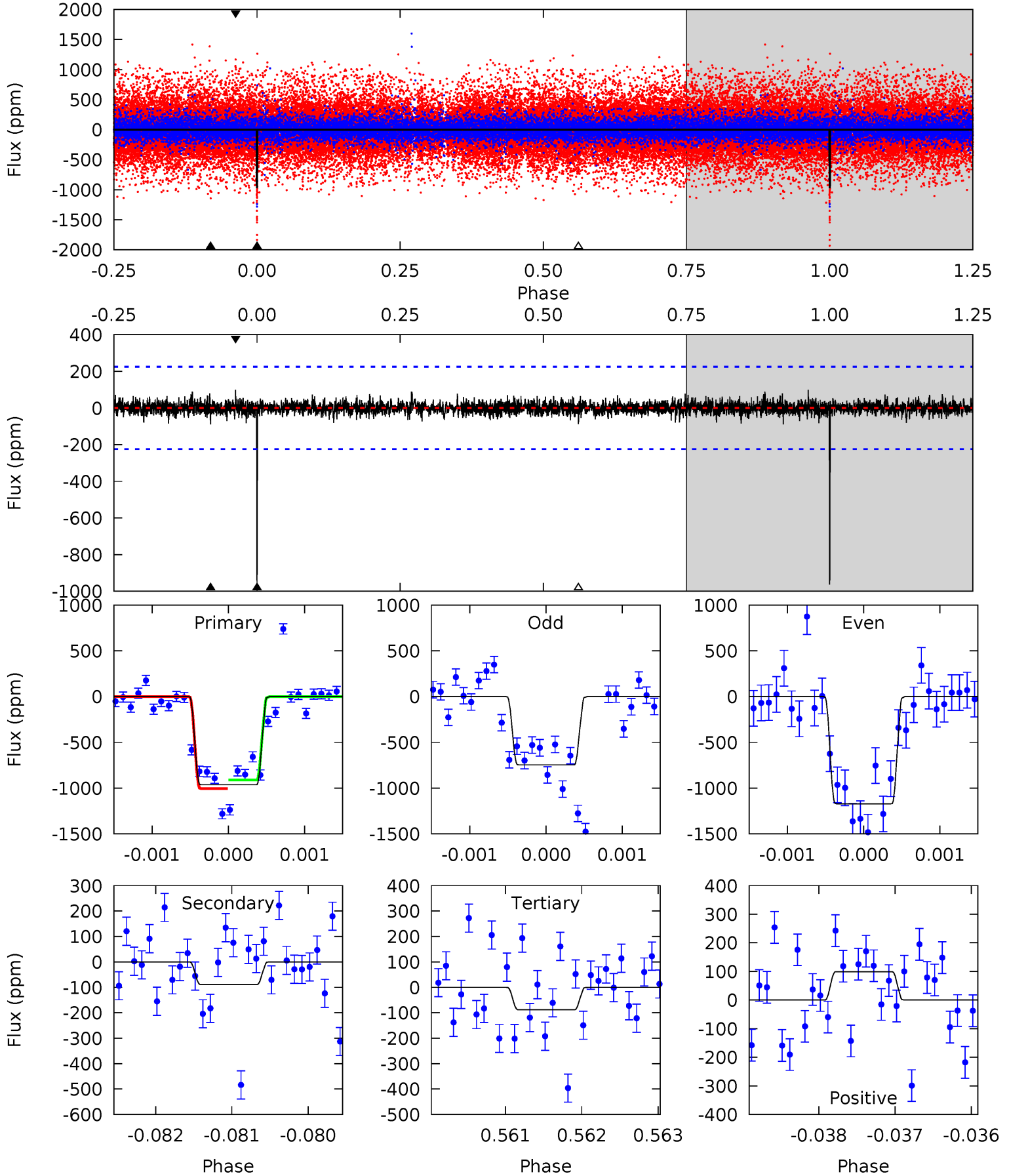
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.4	19.0	18.6	18.6	5.45	3.29	4.08	-8.29	-8.23	0.39	0.44	3.40	0.98	0.49	1.34



Alt Model-Shift Uniqueness Test

007348667-01, P = 422.368496 Days, E = 201.781751 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.5	2.17	2.15	2.41	5.47	3.33	0.49	21.3	21.1	0.02	-0.25	5.14	1.19	0.09	1.13



Stellar Parameters For KIC 007348667

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5759^{+190}_{-190}	$4.348^{+0.205}_{-0.205}$	$-0.500^{+0.300}_{-0.300}$	$0.981^{+0.289}_{-0.193}$	$0.780^{+0.123}_{-0.053}$	$1.165^{+1.226}_{-0.601}$
	+3%/-3%	+5%/-5%	+60%/-60%	+29%/-20%	+16%/-7%	+105%/-52%
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 007348667-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-2036 ± 107	$3.71^{+1.81}_{-1.63}$	350^{+28}_{-26}	6604^{+2833}_{-1156}	$84024^{+187276}_{-45831}$
Alt.	-89 ± 41	$3.71^{+1.79}_{-1.72}$	348^{+29}_{-26}	3455^{+829}_{-478}	3676^{+8141}_{-2499}

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

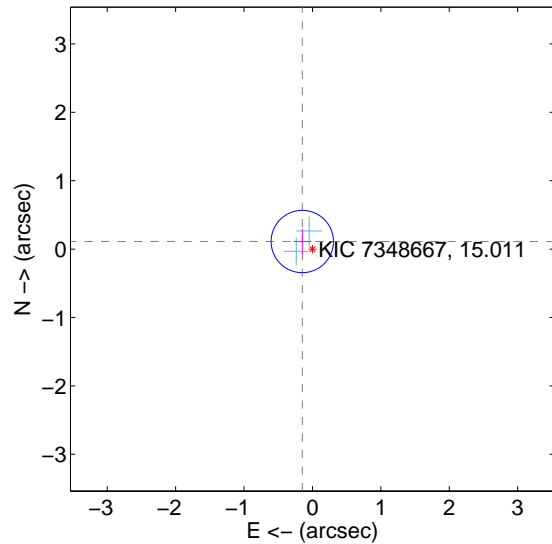
Supplemental centroid analysis for 007348667-01. Kepler magnitude: 15.01. Transit SNR 7.06

There are 2 quarters with good PRF difference image offsets

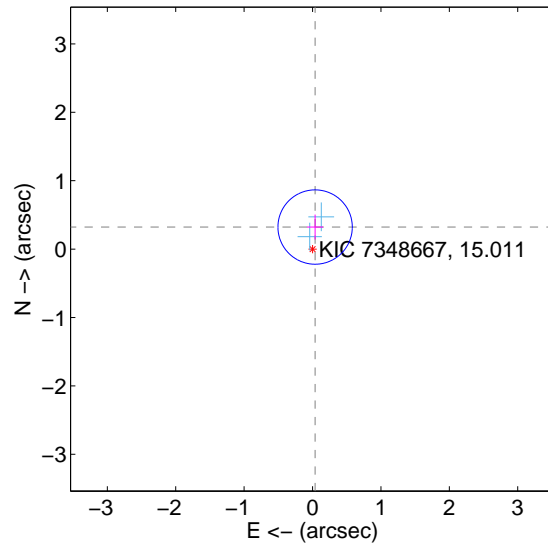
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.186 ± 0.152	1.22	0.149 ± 0.129	0.111 ± 0.186
PRF-fit source offset from KIC position	0.325 ± 0.181	1.79	-0.038 ± 0.119	0.322 ± 0.182
photometric centroid source offset	0.76 ± 0.73	1.05	-0.66 ± 0.76	0.39 ± 0.64

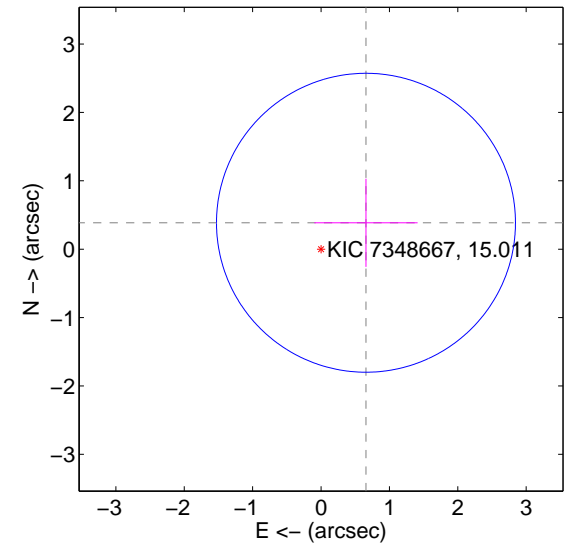
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

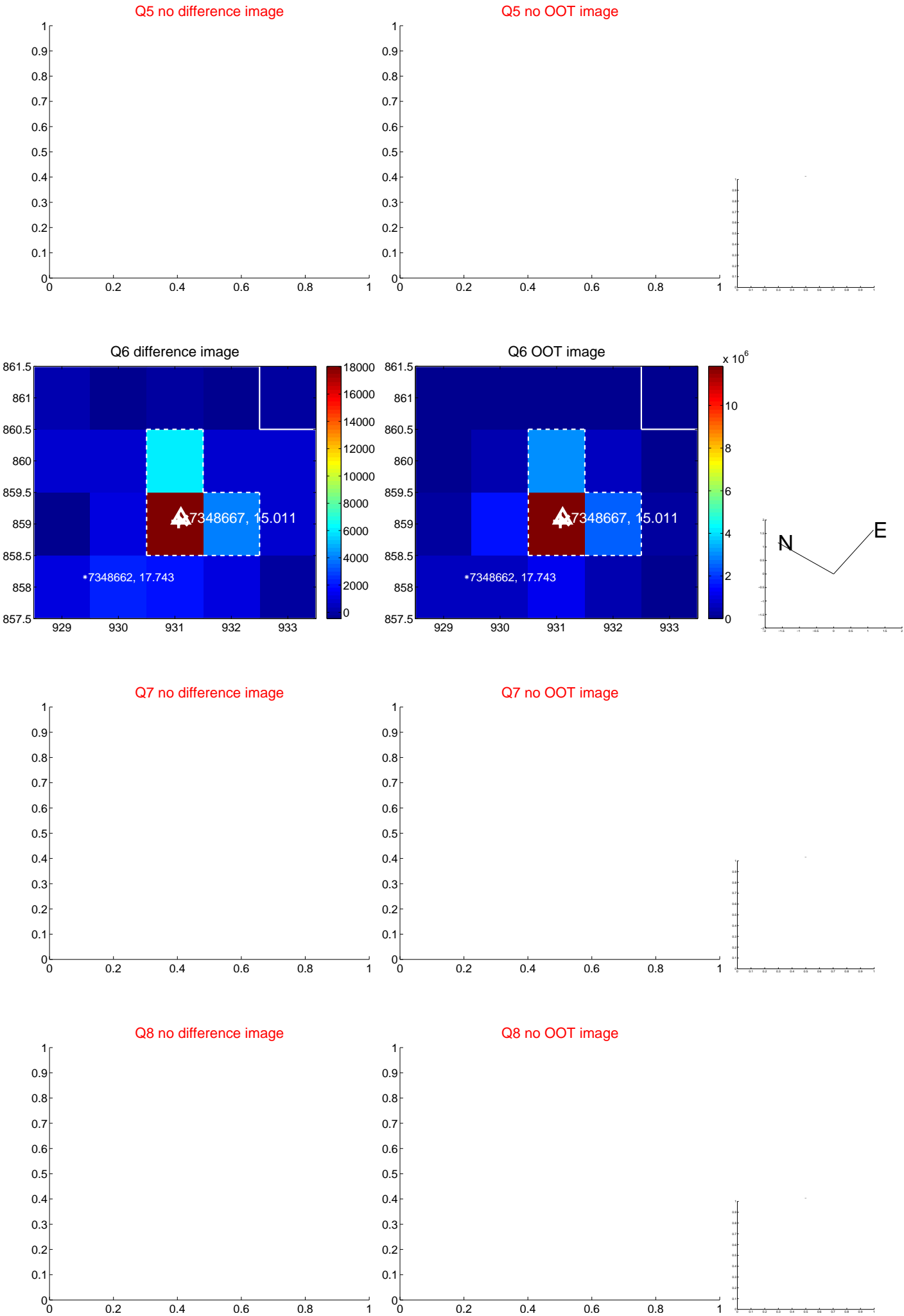


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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



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



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

Q9 no difference image



Q9 no OOT image



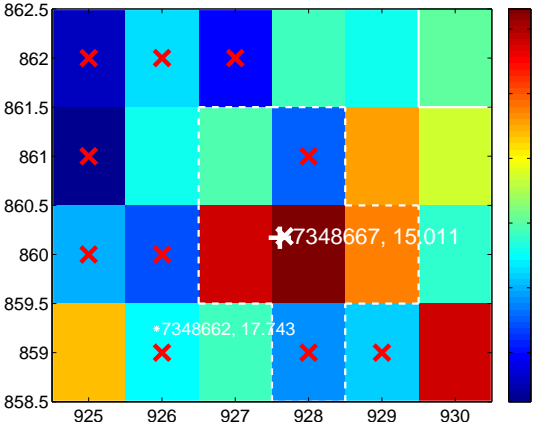
Q10 no difference image



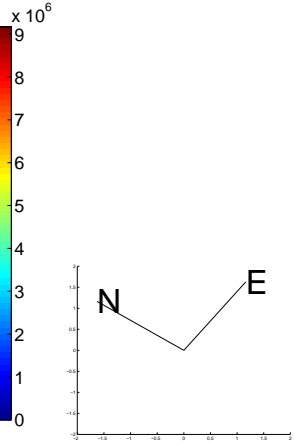
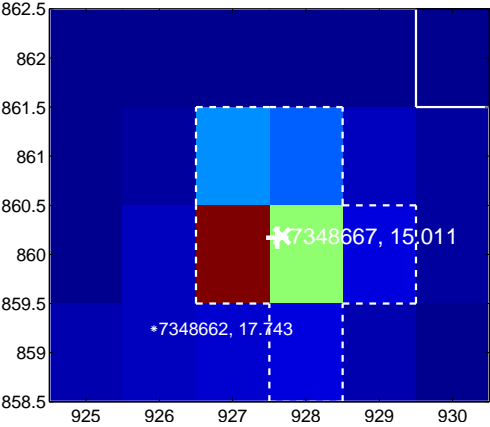
Q10 no OOT image



Q11 difference image. Poor Quality



Q11 OOT image



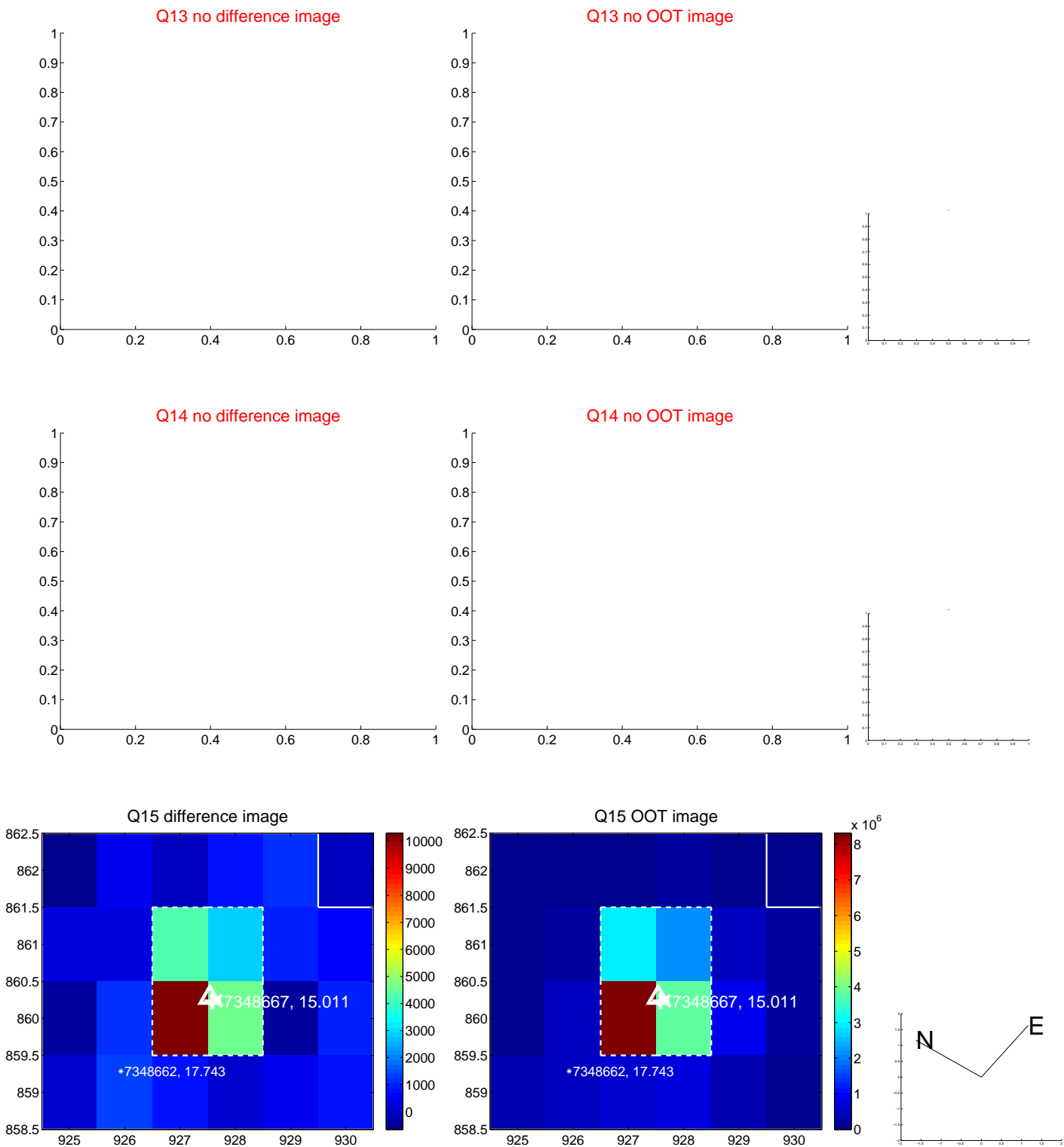
Q12 no difference image



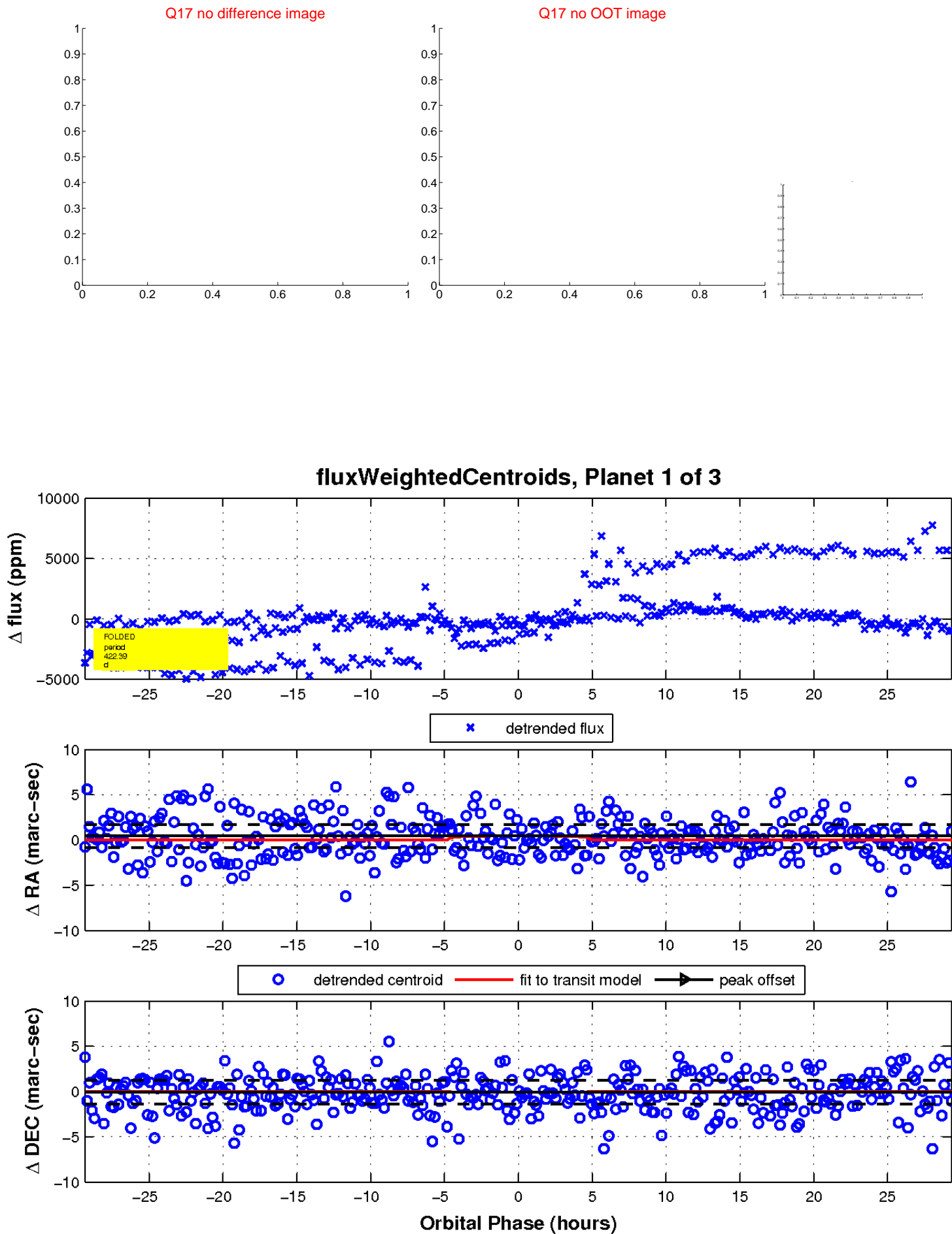
Q12 no OOT image



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

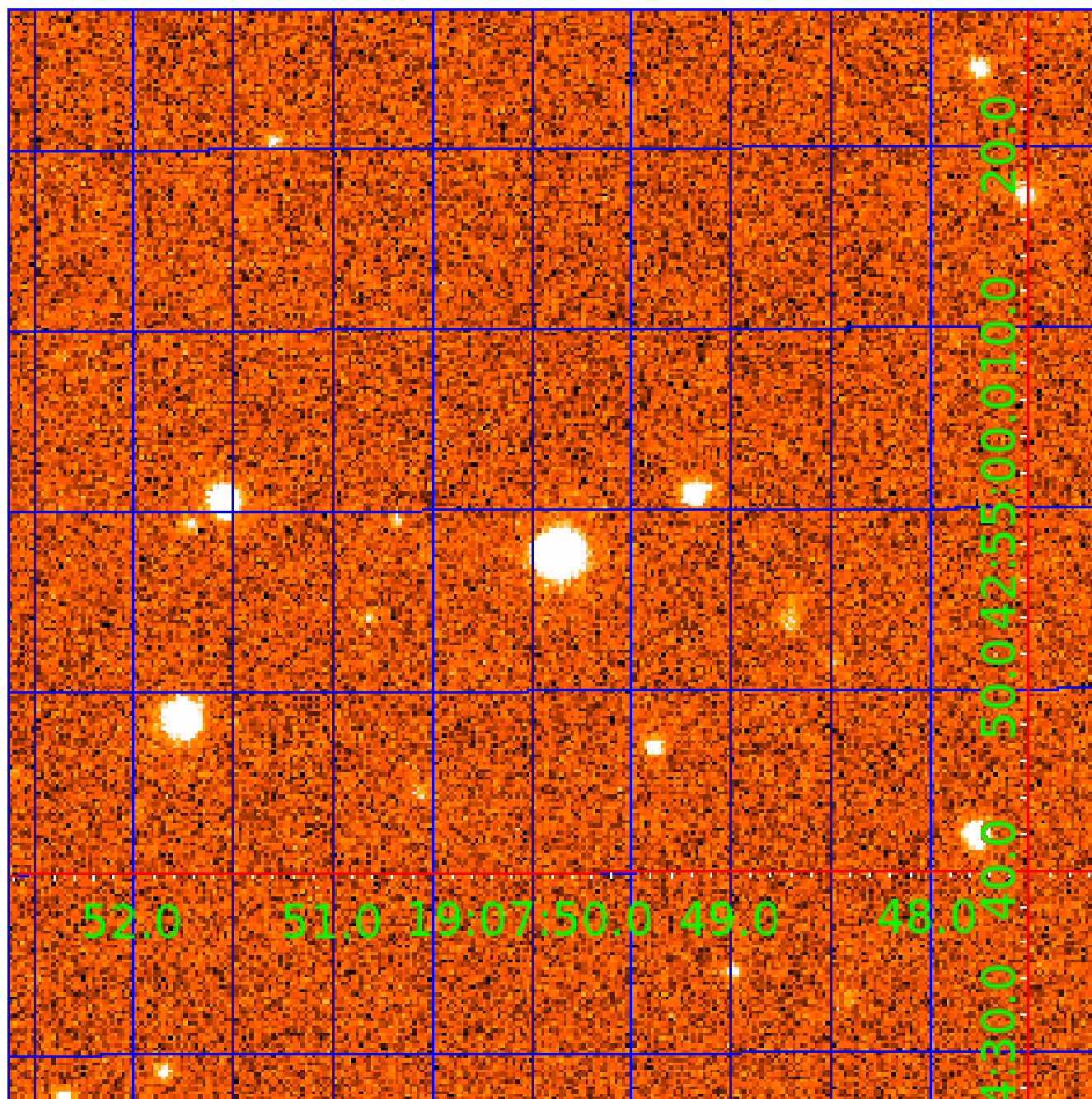


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007348667

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})
007348667-01	OBS	No	422.394882	201.731113	1402.8	9.824	14.5	7.1	0.98	5759	3.68	0.92
007348667-02	OBS	No	433.694109	495.581325	1227.4	7.540	11.9	7.0	0.98	5759	3.62	0.89
007348667-03	OBS	No	418.675228	285.937048	1192.0	6.004	11.4	6.8	0.98	5759	3.57	0.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007348667-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_MEAS
007348667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007348667-03	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—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.

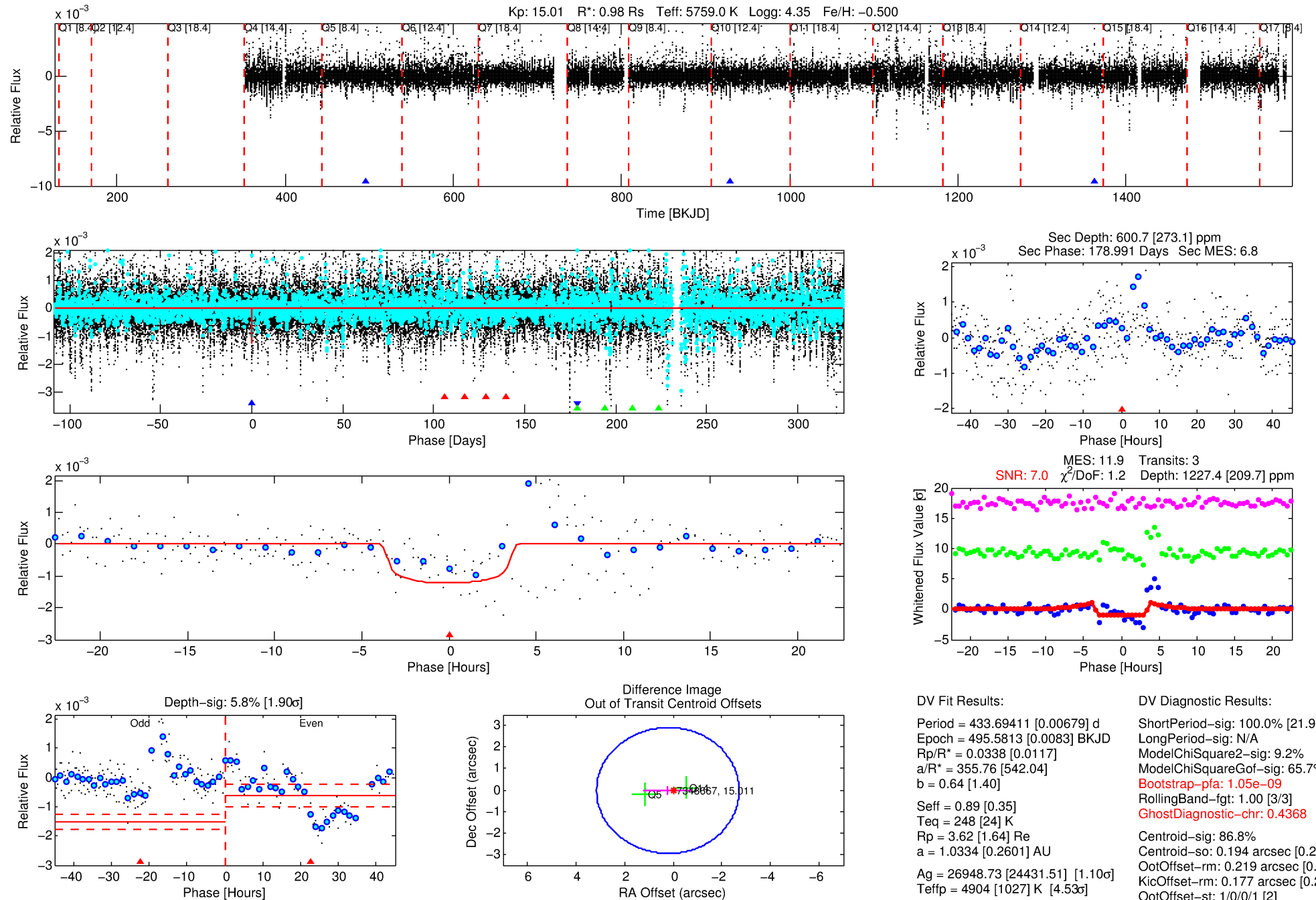
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007348667-02

No Significant Match Found

DV One-Page Summary

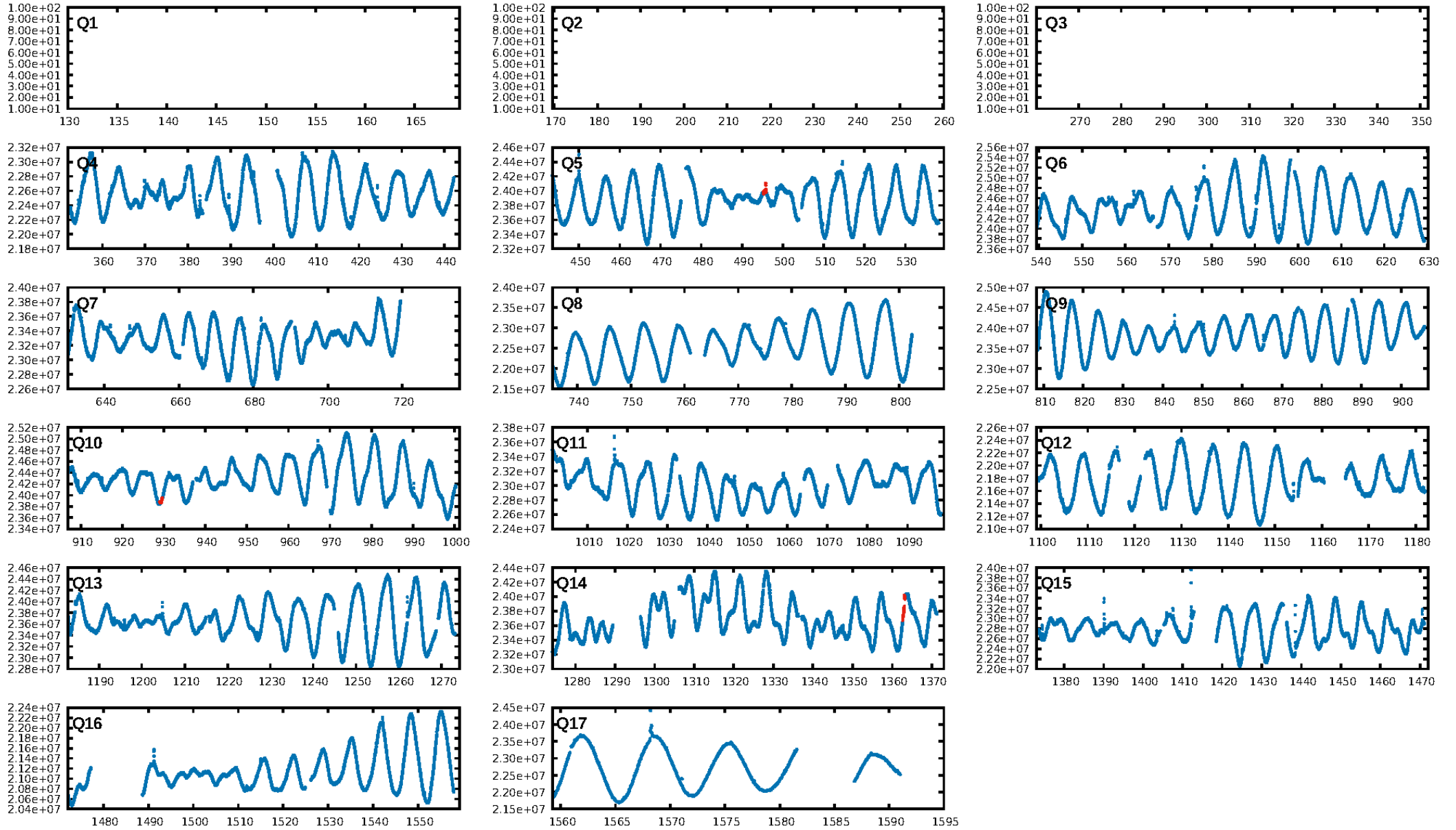
KIC: 7348667 Candidate: 2 of 3 Period: 433.694 d



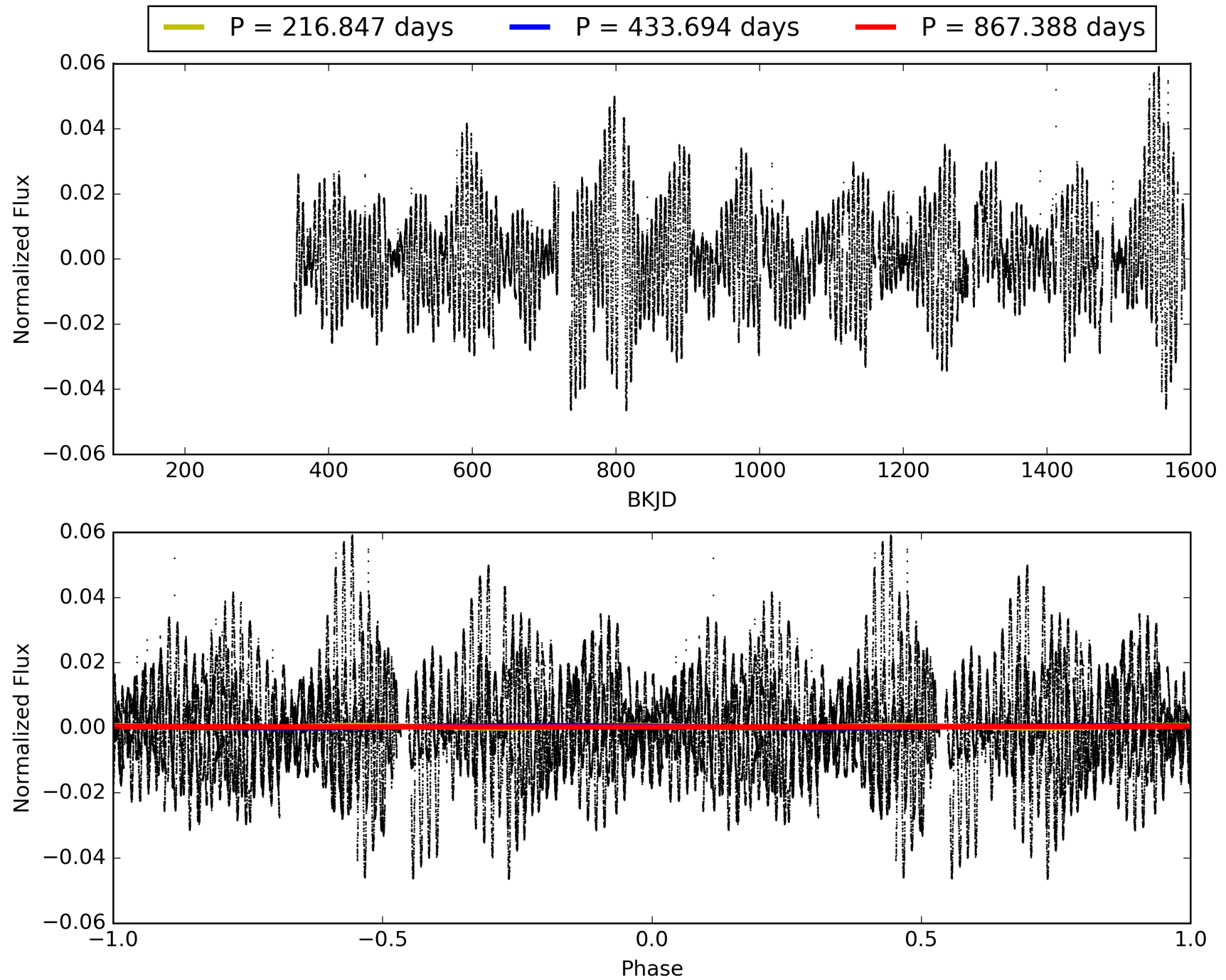
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 12:43:25 Z

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

TCE 007348667-02, PDC Light Curves

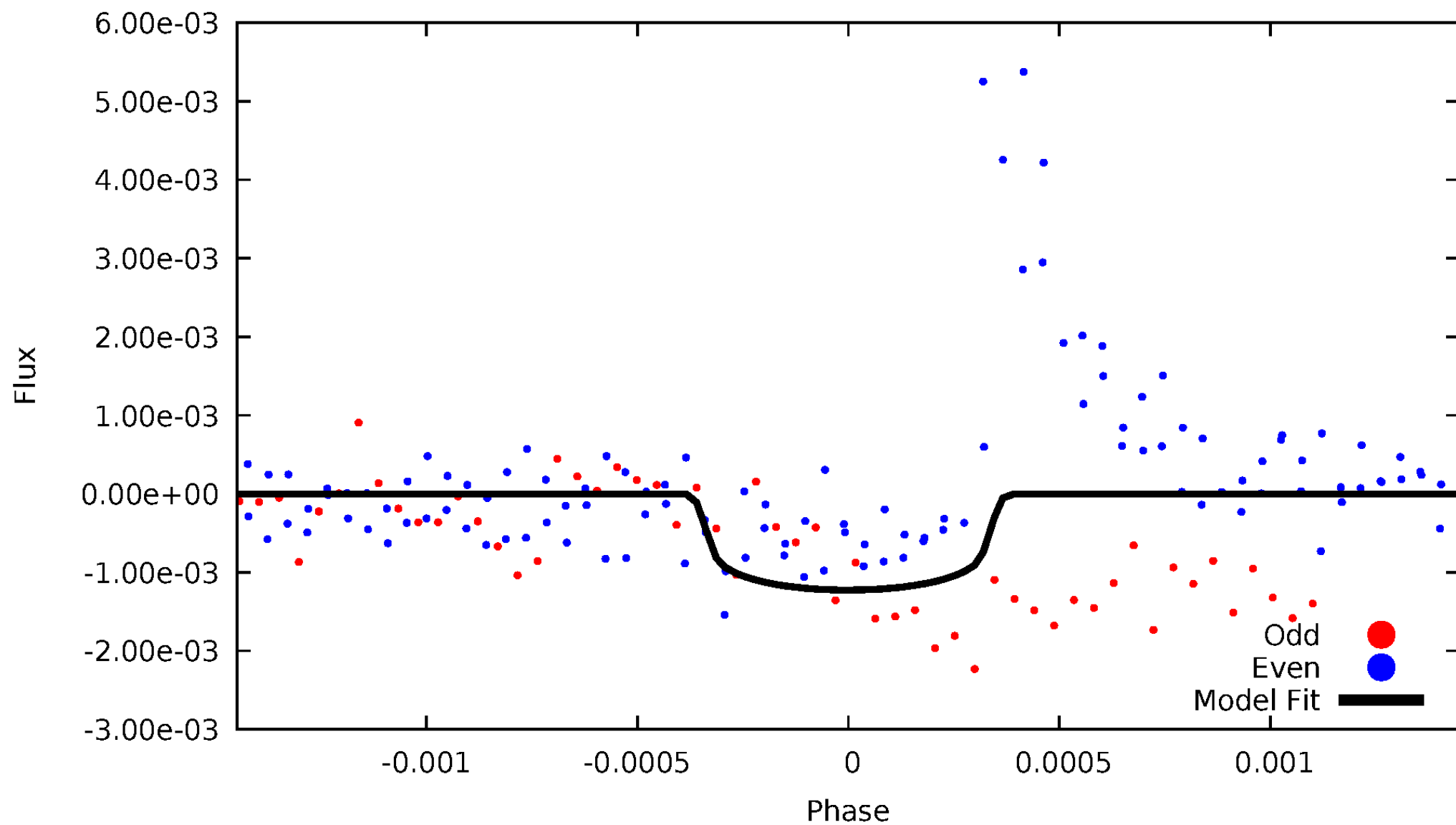


TCE 007348667-02



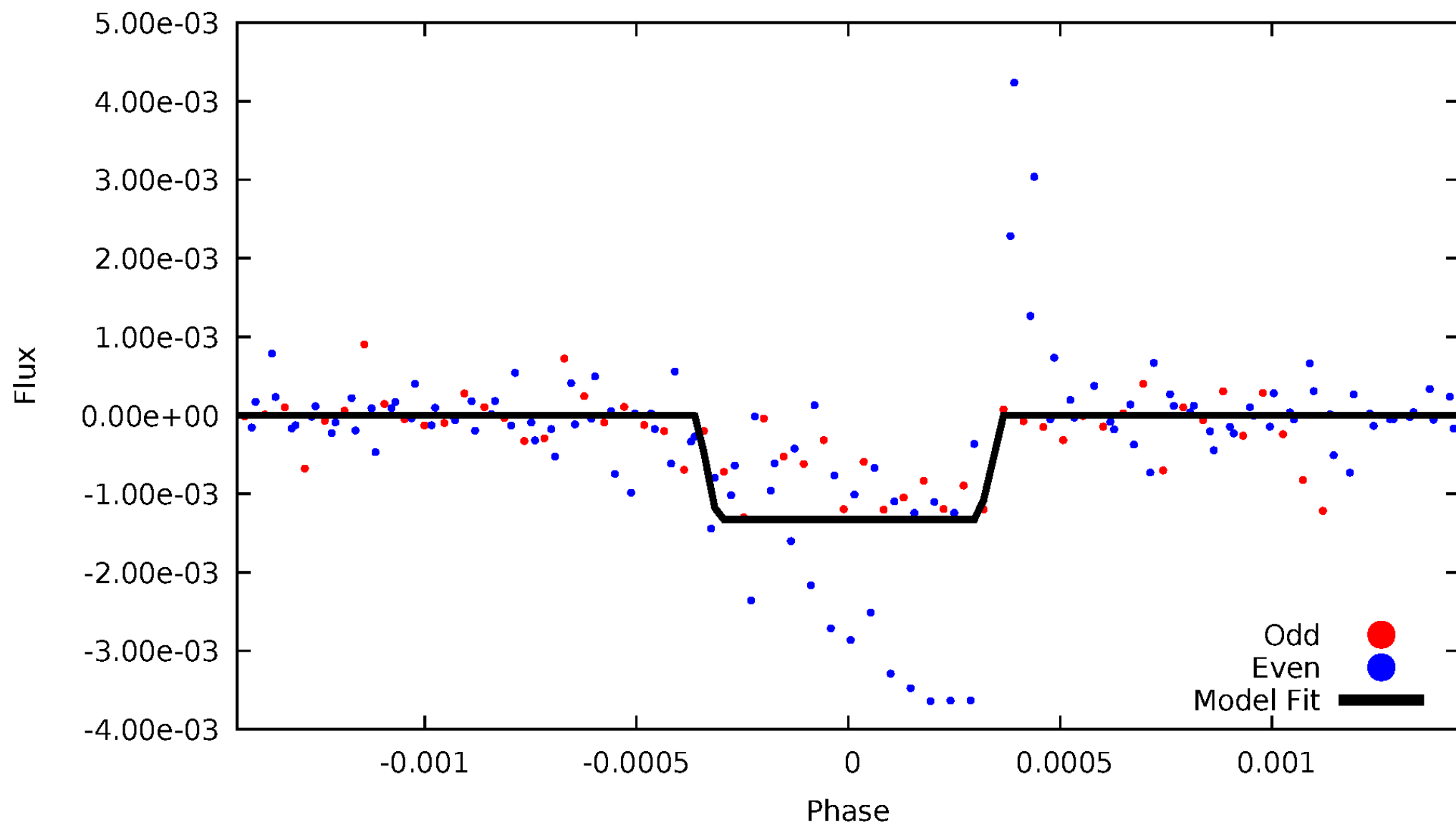
DV Odd/Even

TCE 007348667-02



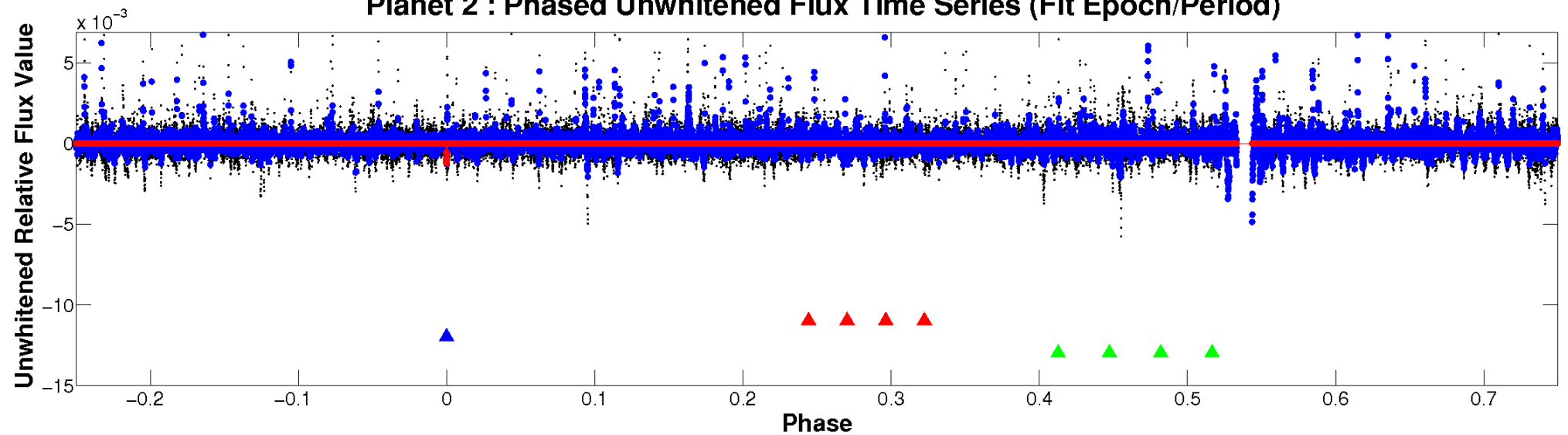
ALT Odd/Even

TCE 007348667-02

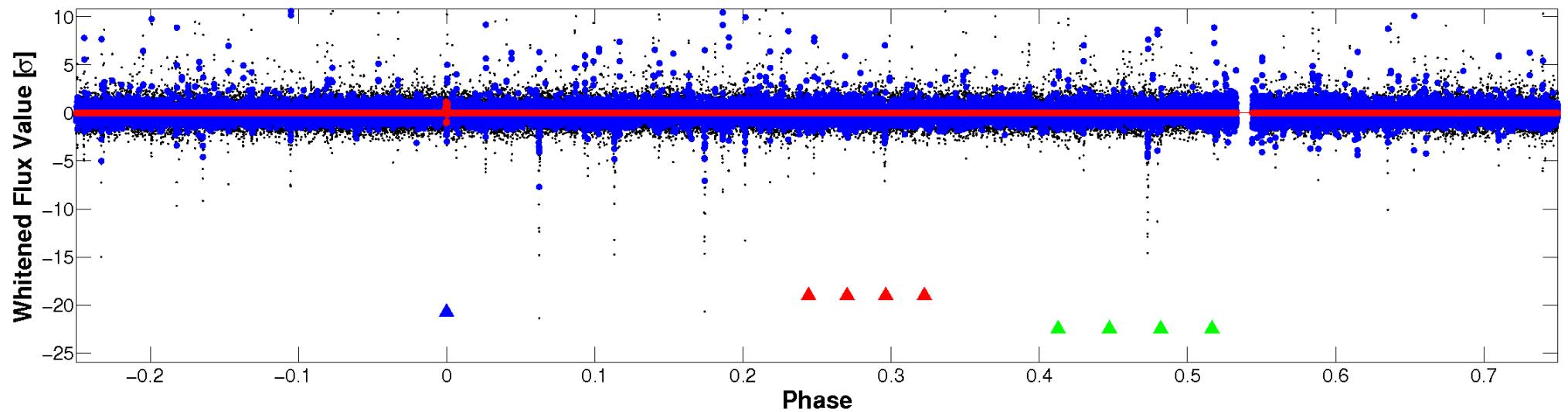


Non-Whitened Vs. Whitened Light Curve

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

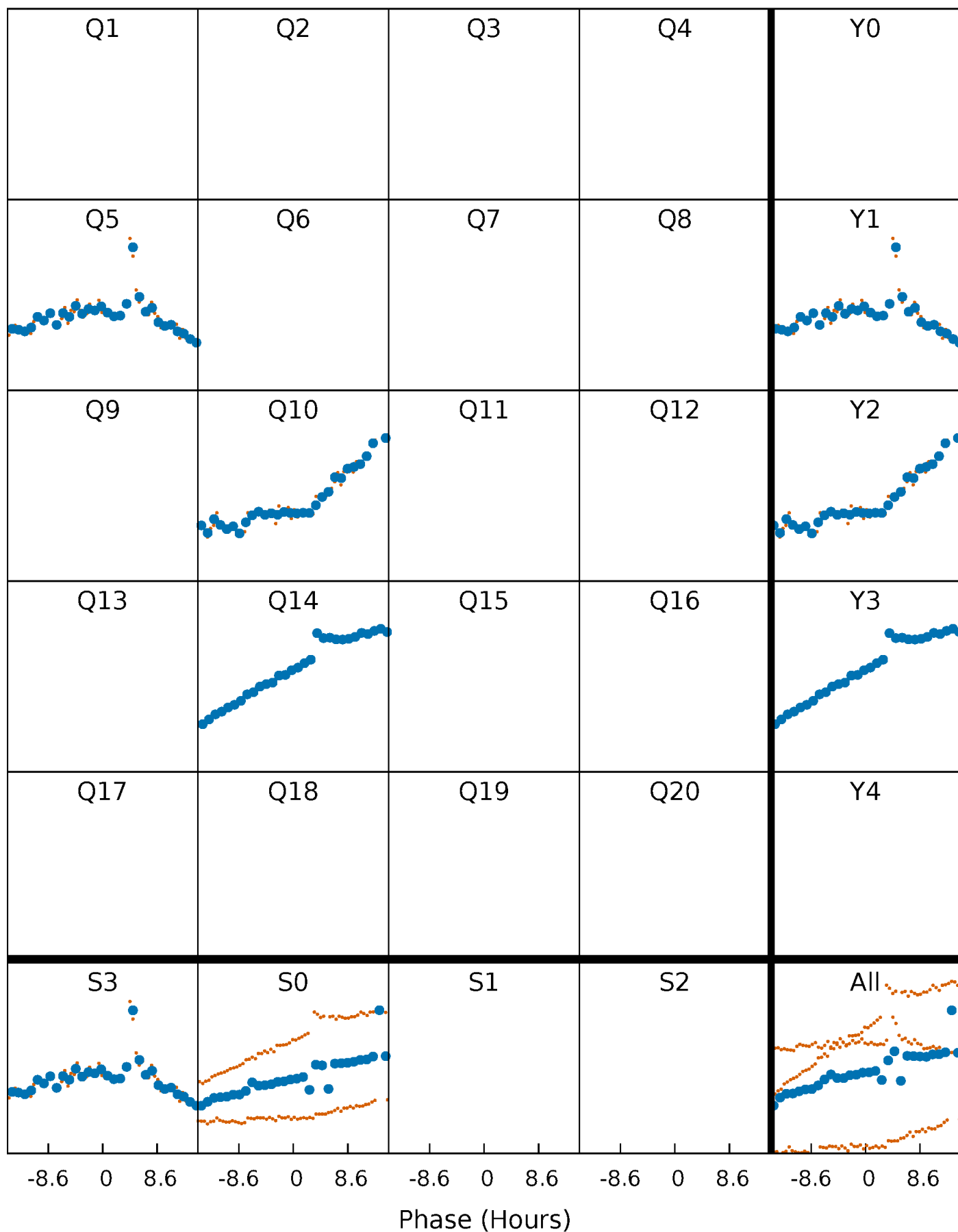


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



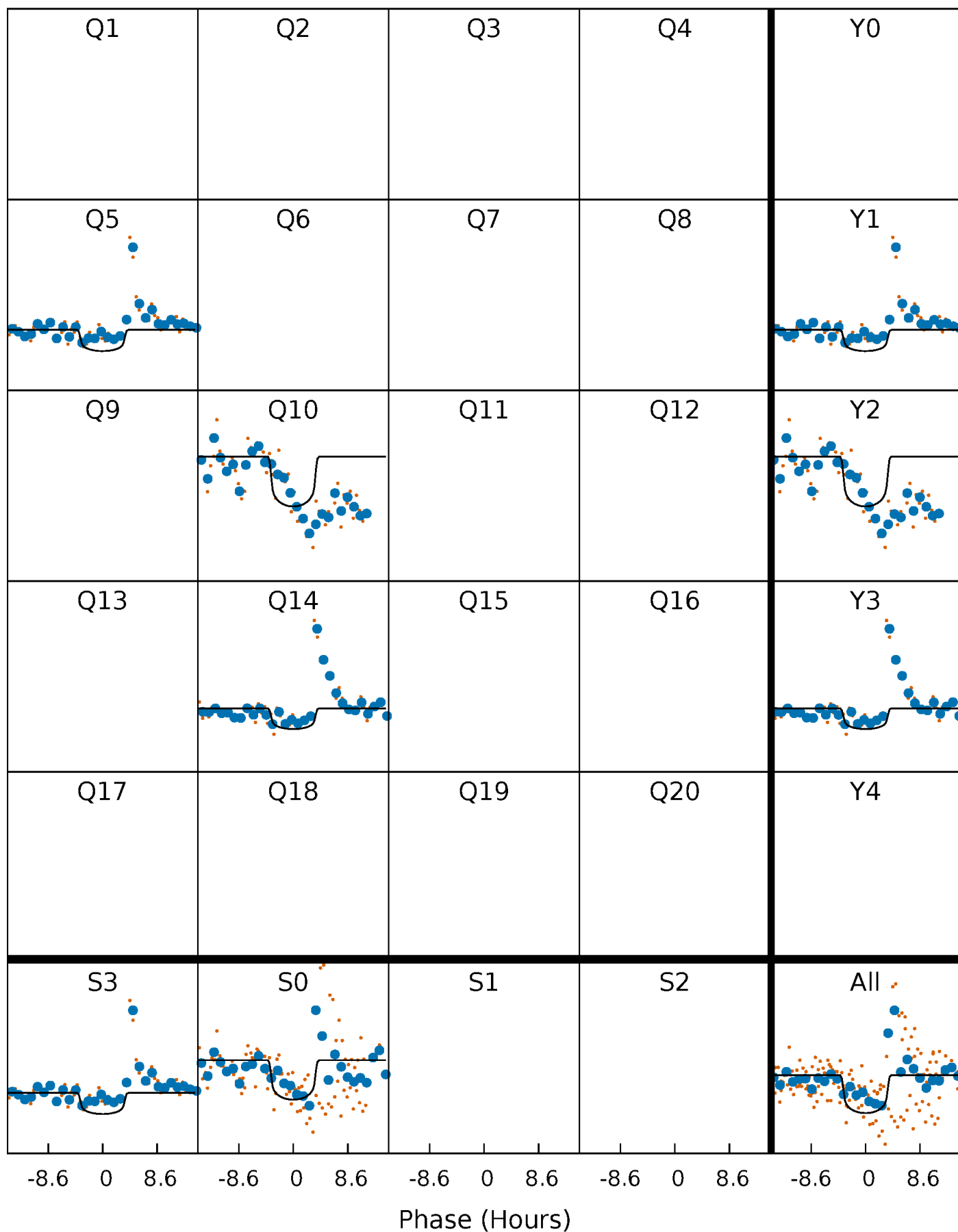
PDC Quarter-Phased Transit Curves

TCE 007348667-02 $P=433.694109$ Days $T_0=495.581325$ (BKJD)



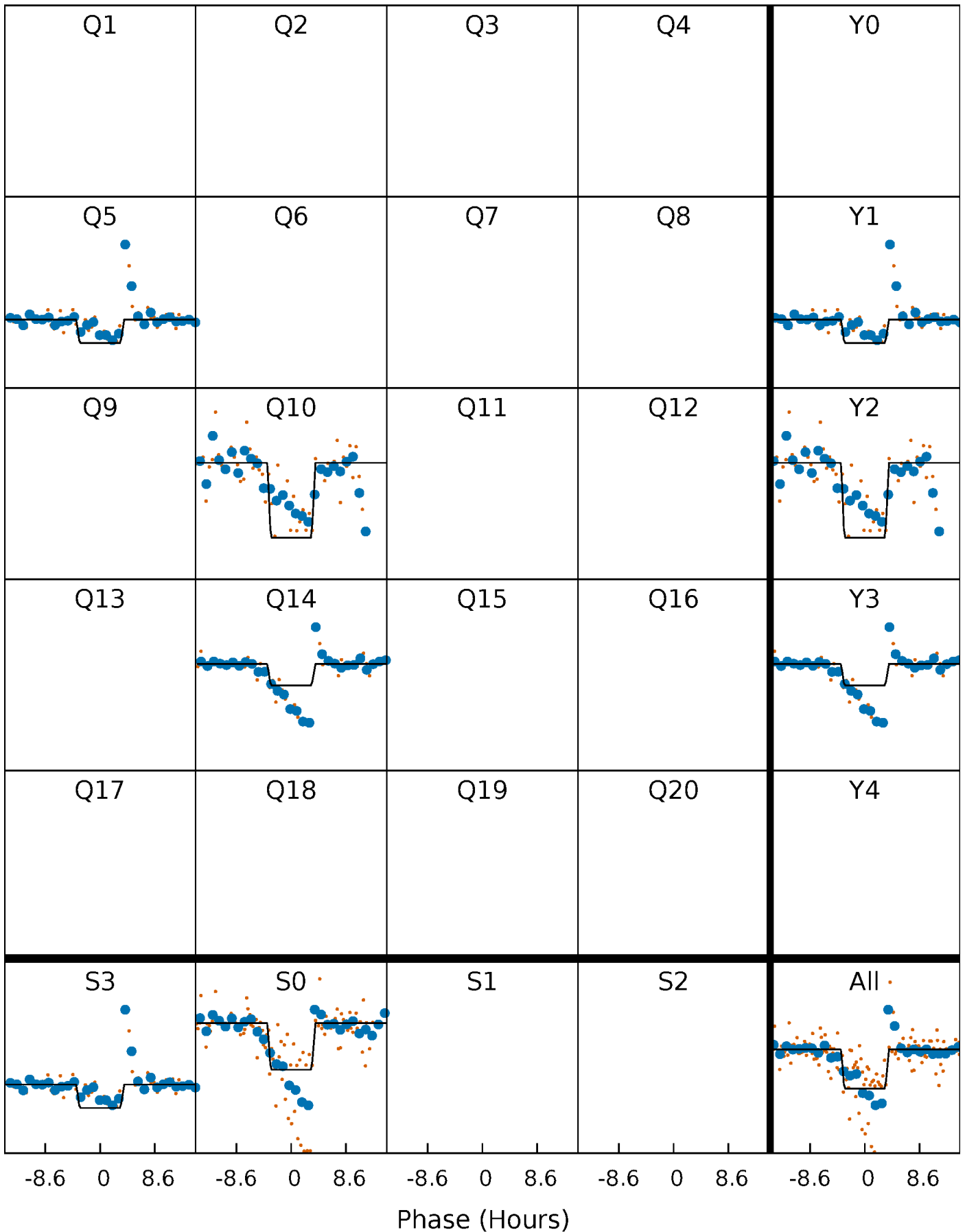
DV Quarter-Phased Transit Curves

TCE 007348667-02 $P=433.694109$ Days $T_0=495.581325$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

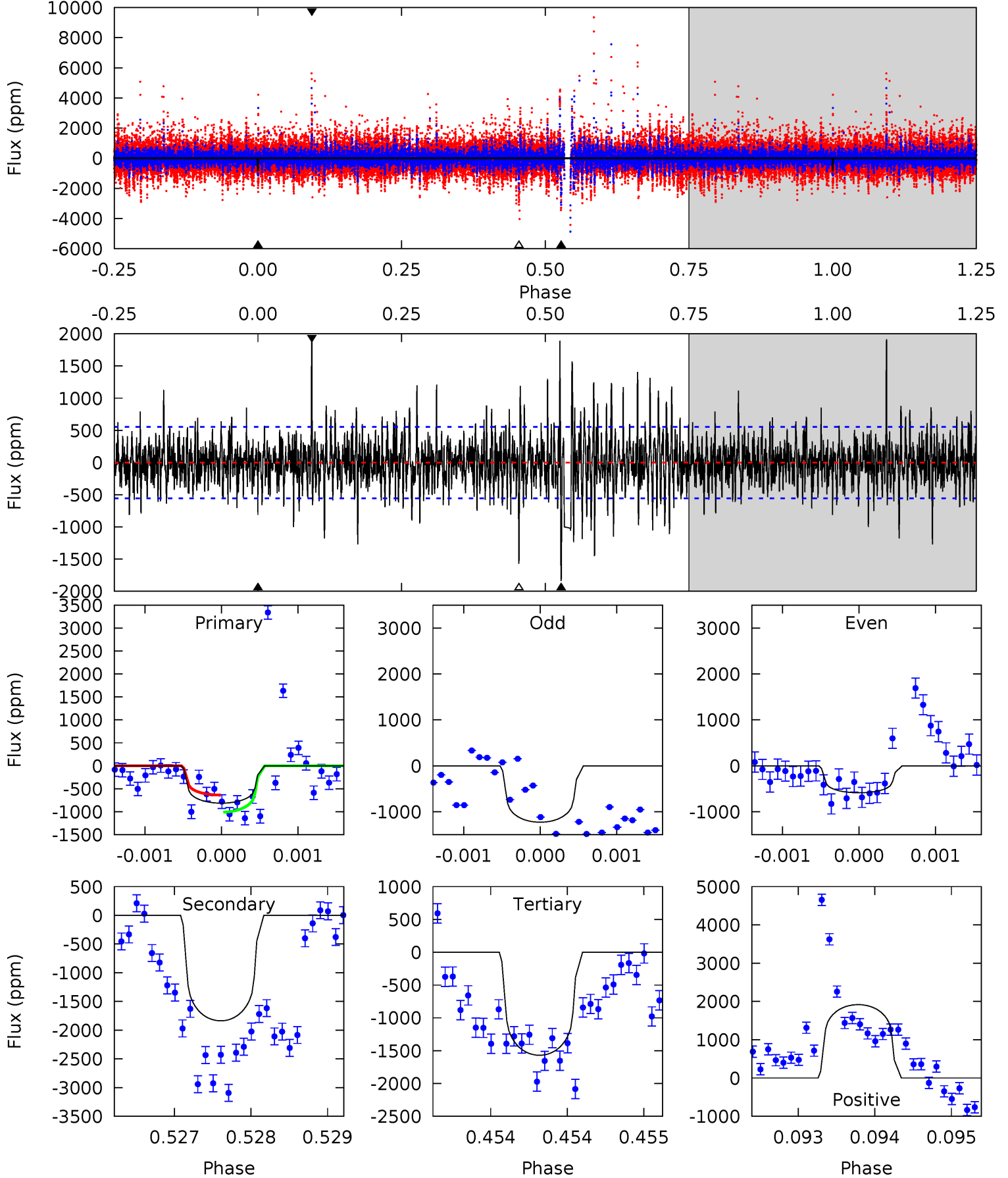
TCE 007348667-02 $P=433.675066$ Days $T_0=495.591964$ (BKJD)



DV Model-Shift Uniqueness Test

007348667-02, P = 433.694109 Days, E = 61.887216 Days

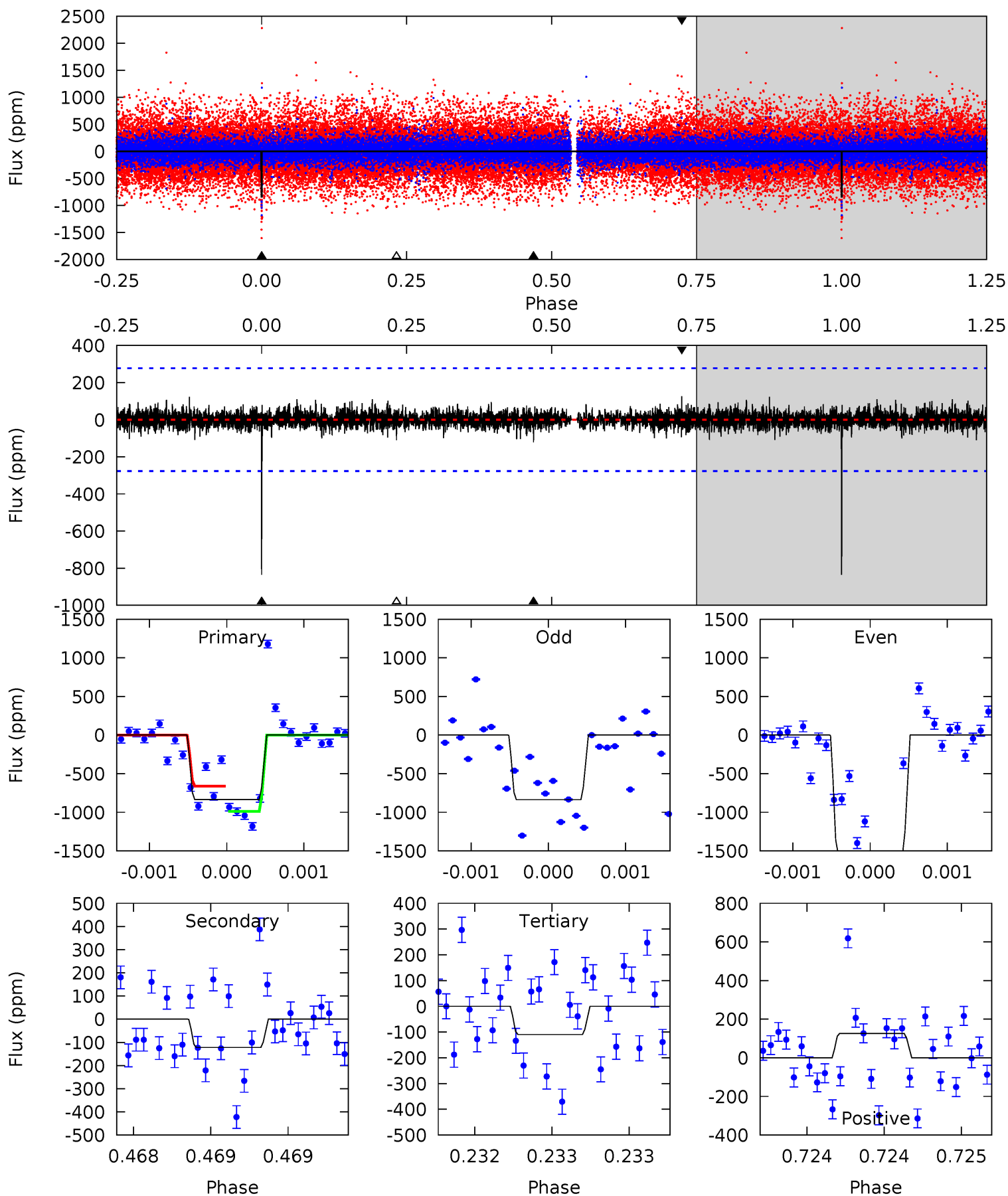
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.06	18.2	15.6	19.0	5.51	3.38	3.23	-7.50	-10.9	2.65	-0.79	2.82	1.57	0.51	1.85



Alt Model-Shift Uniqueness Test

007348667-02, P = 433.675066 Days, E = 61.916898 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.6	2.42	2.18	2.50	5.51	3.39	0.50	14.4	14.1	0.25	-0.08	7.54	1.65	0.13	3.20



Stellar Parameters For KIC 007348667

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5759^{+190}_{-190}	$4.348^{+0.205}_{-0.205}$	$-0.500^{+0.300}_{-0.300}$	$0.981^{+0.289}_{-0.193}$	$0.780^{+0.123}_{-0.053}$	$1.165^{+1.226}_{-0.601}$
	+3%/-3%	+5%/-5%	+60%/-60%	+29%/-20%	+16%/-7%	+105%/-52%
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 007348667-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1837 ± 101	$3.70^{+1.33}_{-1.33}$	345^{+27}_{-26}	6374^{+1907}_{-825}	$80871^{+106050}_{-38021}$
Alt.	-122 ± 50	$3.88^{+1.47}_{-1.35}$	346^{+28}_{-26}	3624^{+567}_{-425}	4825^{+6463}_{-2703}

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 $A_{obs} \gg 1.0$

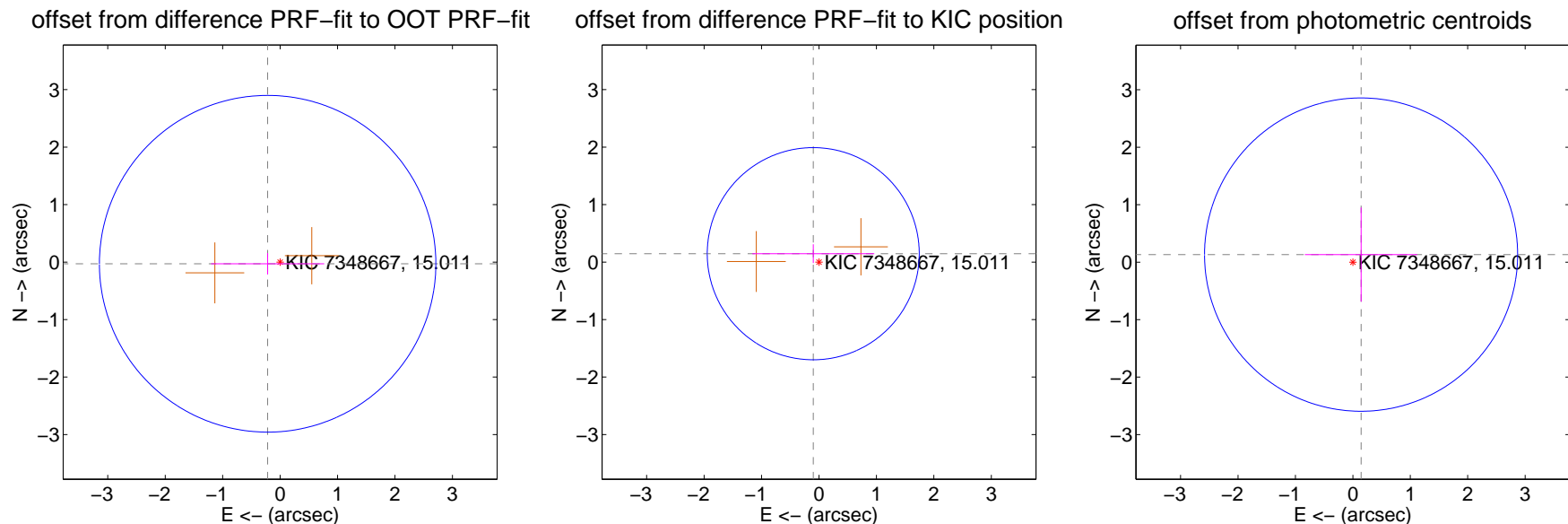
DV Centroid Data

Supplemental centroid analysis for 007348667-02. Kepler magnitude: 15.01. Transit SNR 7.03

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.219 ± 0.976	0.22	0.217 ± 0.985	-0.029 ± 0.186
PRF-fit source offset from KIC position	0.177 ± 0.615	0.29	0.100 ± 1.062	0.146 ± 0.164
photometric centroid source offset	0.19 ± 0.91	0.21	-0.14 ± 0.98	0.13 ± 0.82

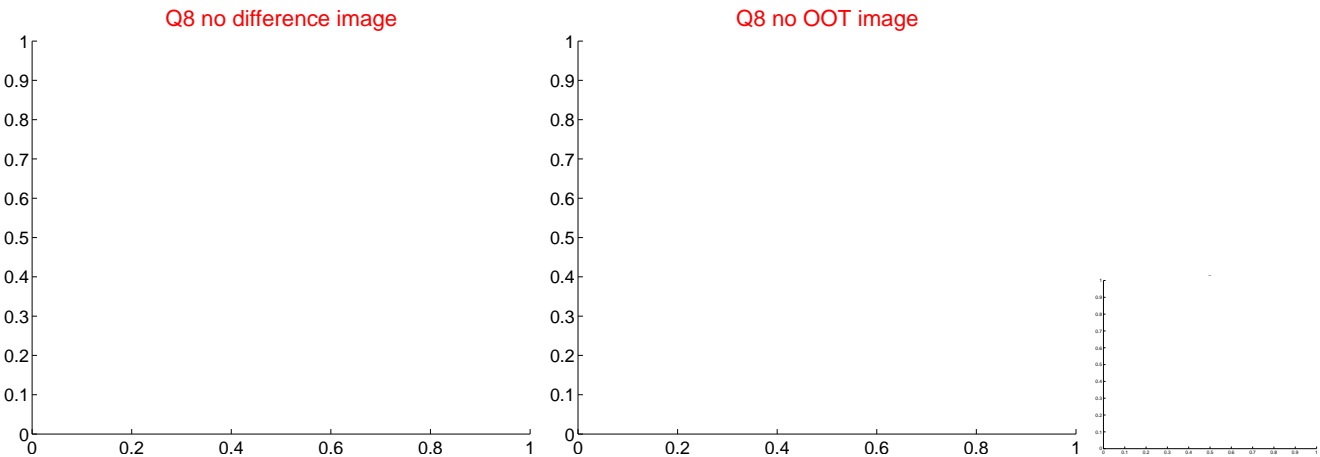
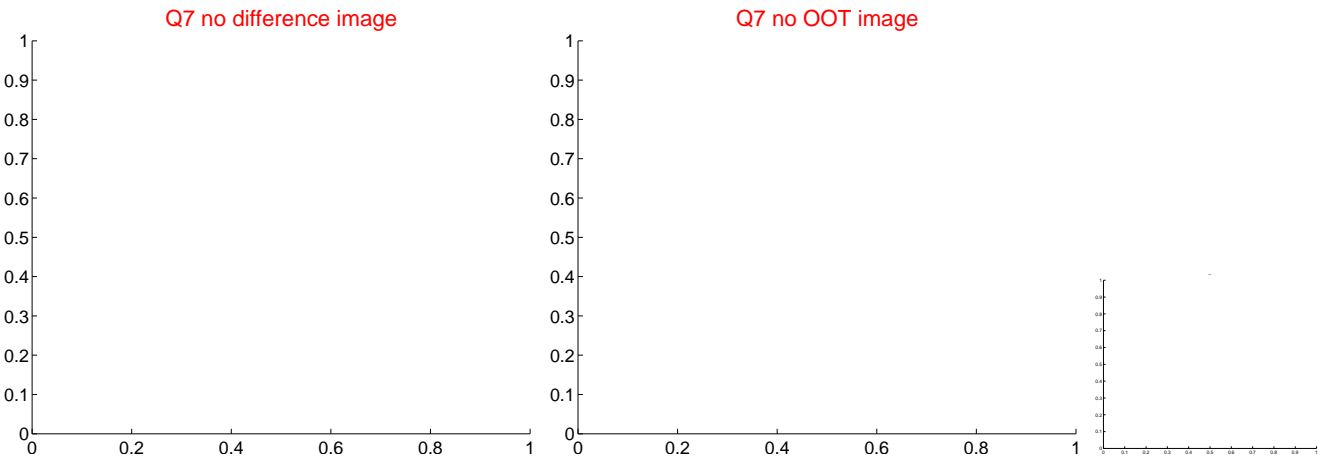
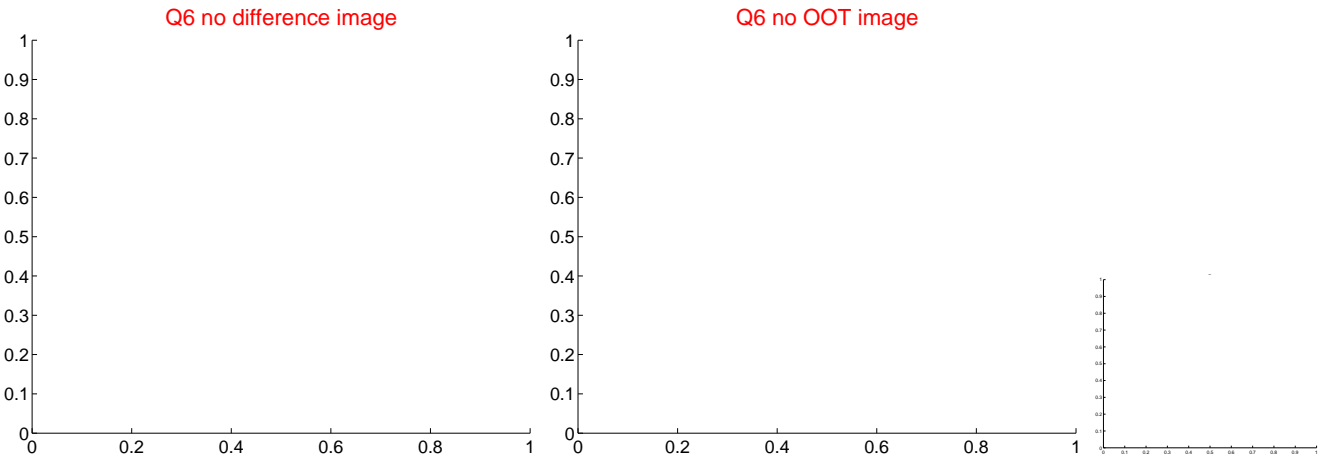
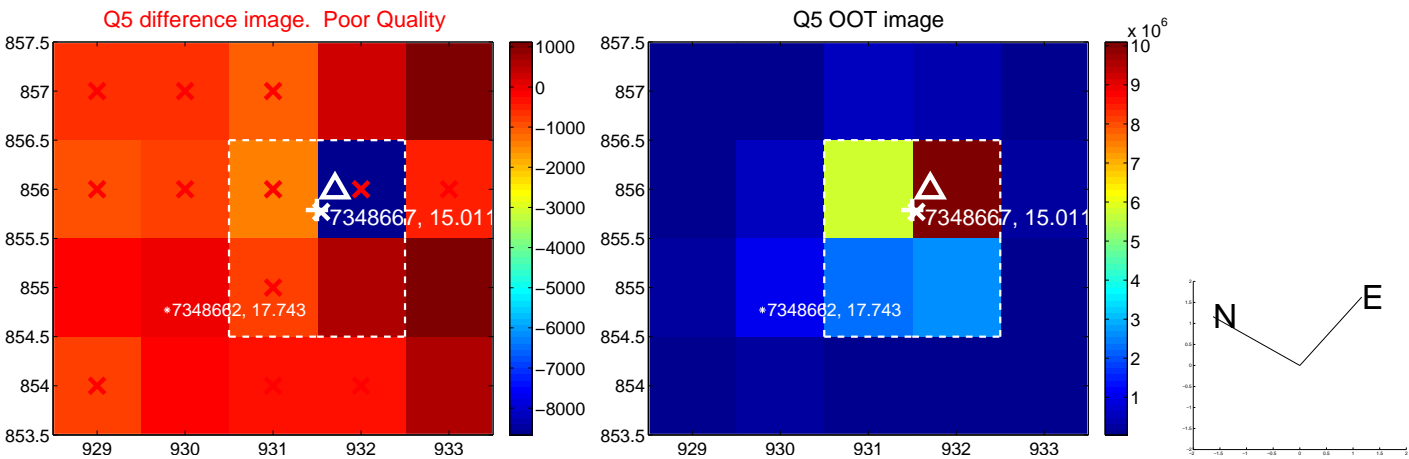


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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



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



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

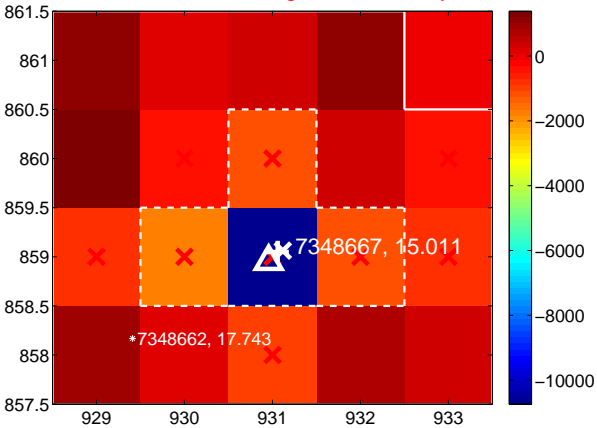
Q13 no difference image



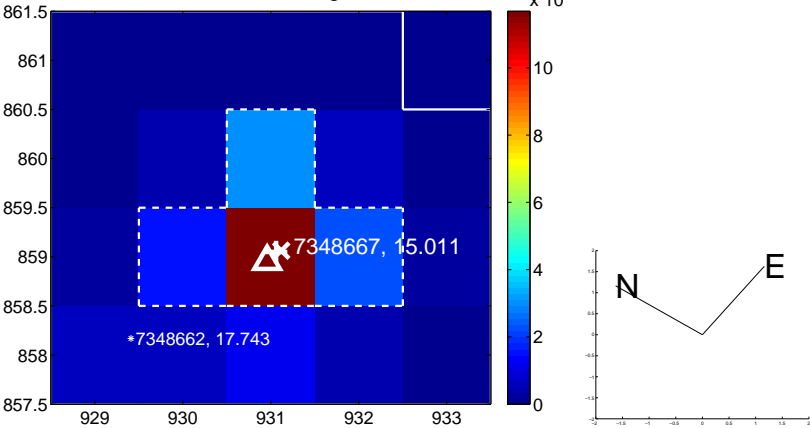
Q13 no OOT image



Q14 difference image. Poor Quality



Q14 OOT image



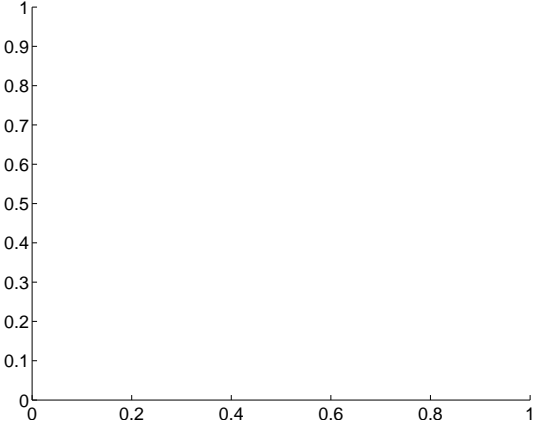
Q15 no difference image



Q15 no OOT image



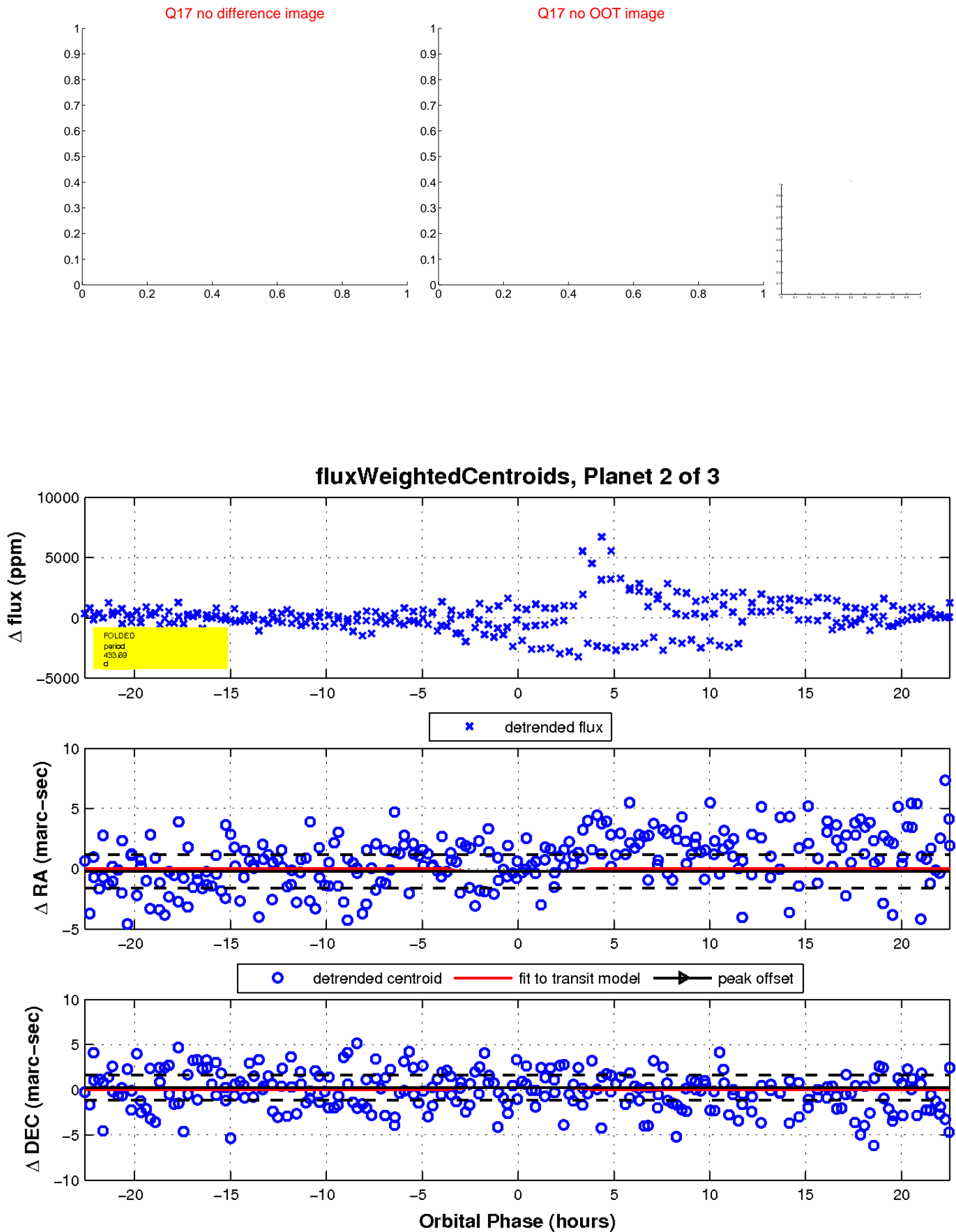
Q16 no difference image



Q16 no OOT image

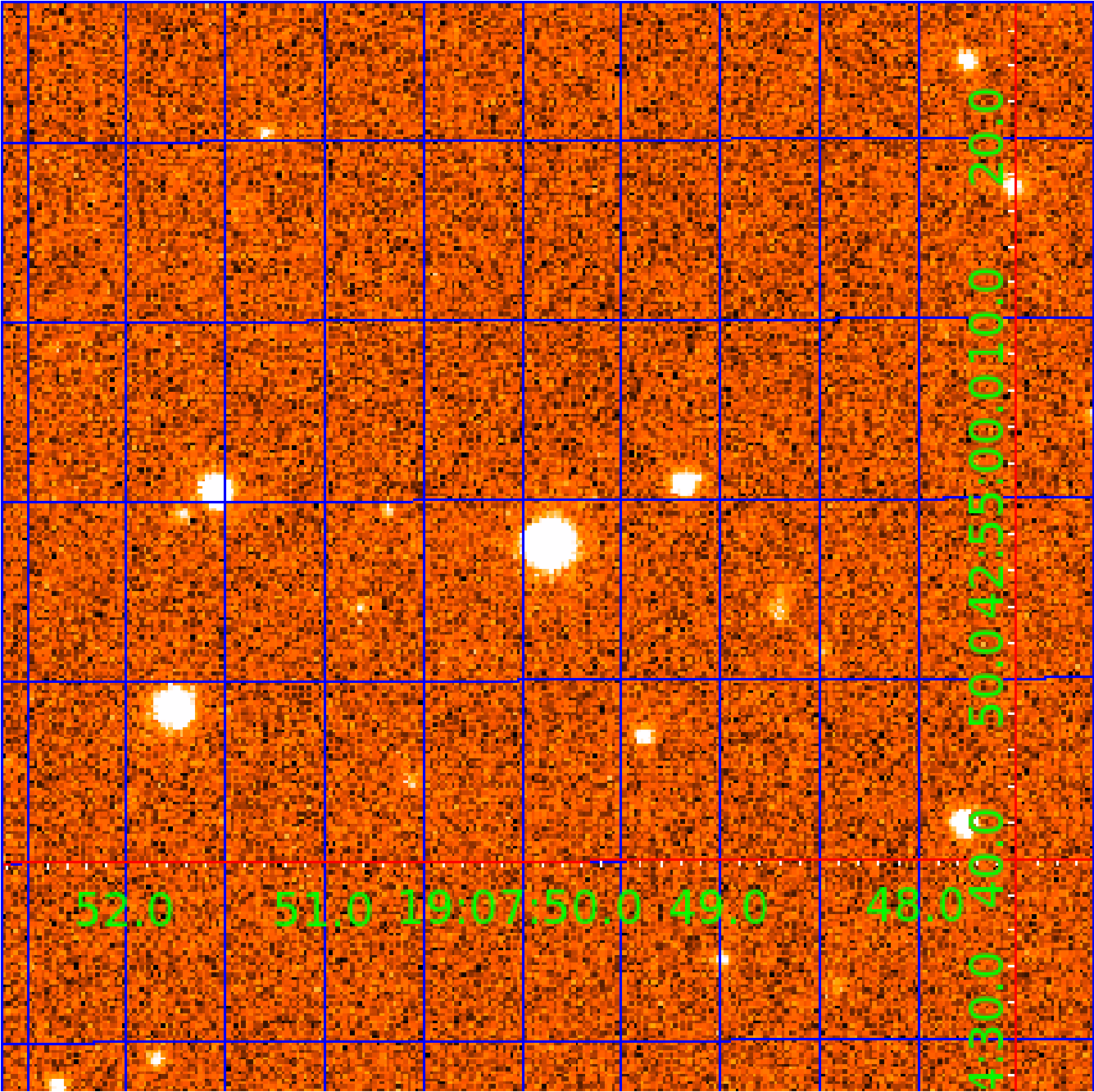


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007348667

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})
007348667-01	OBS	No	422.394882	201.731113	1402.8	9.824	14.5	7.1	0.98	5759	3.68	0.92
007348667-02	OBS	No	433.694109	495.581325	1227.4	7.540	11.9	7.0	0.98	5759	3.62	0.89
007348667-03	OBS	No	418.675228	285.937048	1192.0	6.004	11.4	6.8	0.98	5759	3.57	0.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007348667-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_MEAS
007348667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007348667-03	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—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.

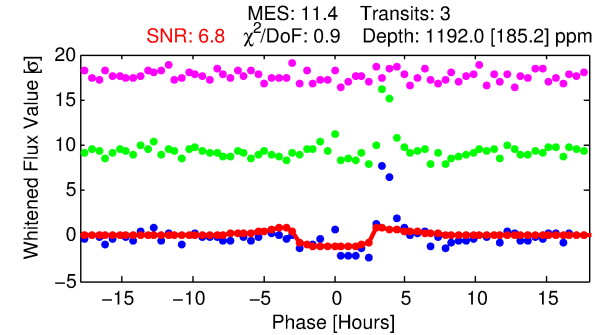
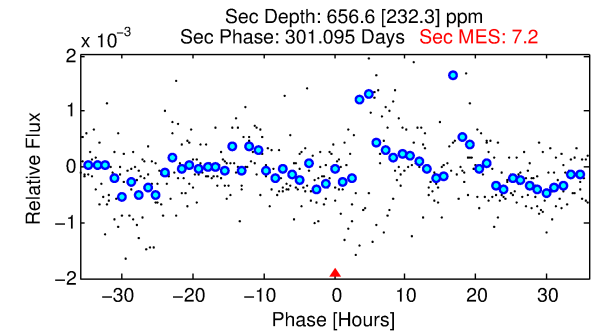
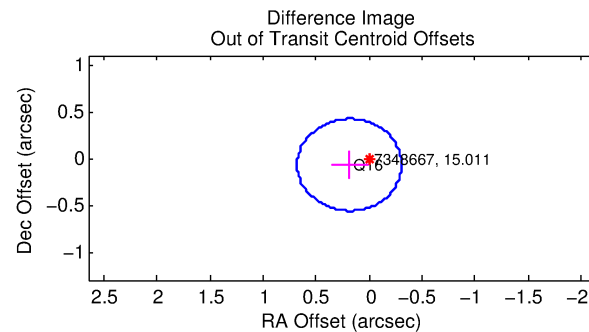
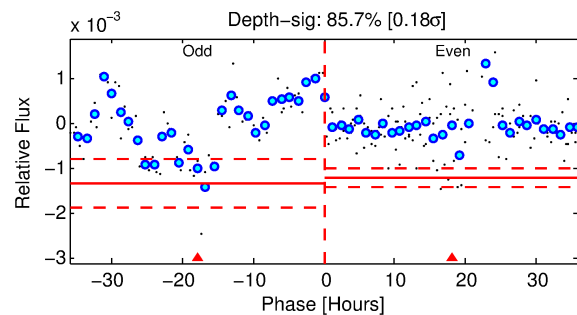
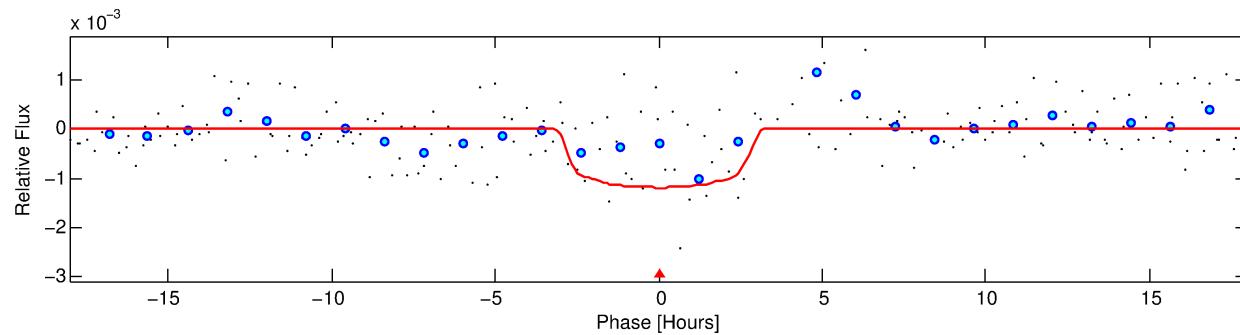
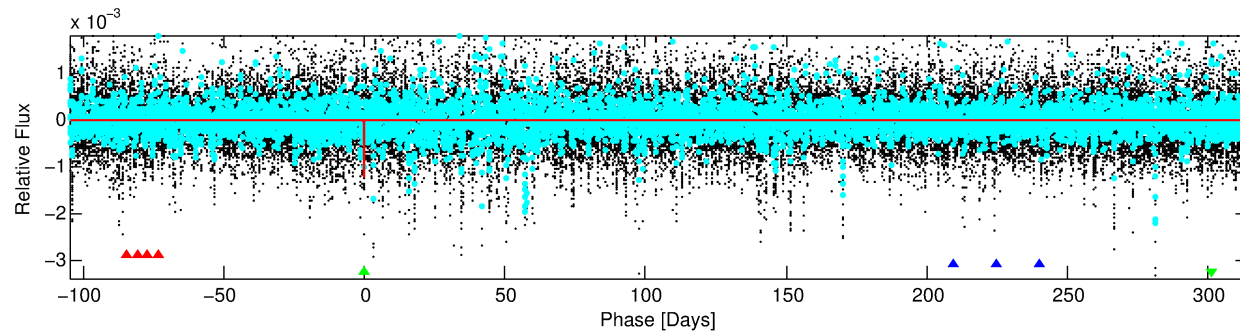
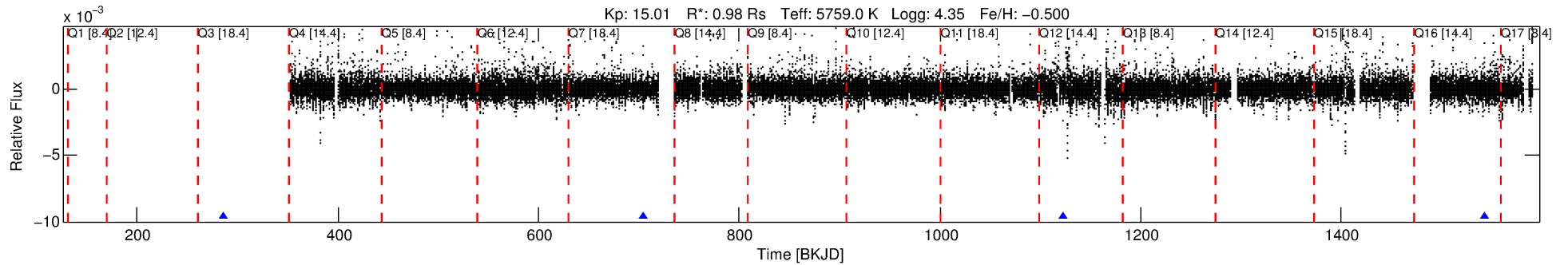
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007348667-03

No Significant Match Found

DV One-Page Summary

KIC: 7348667 Candidate: 3 of 3 Period: 418.675 d



DV Fit Results:

Period = 418.67523 [0.00902] d
Epoch = 285.9370 [0.0154] BKJD
Rp/R* = 0.0333 [0.0207]
a/R* = 431.20 [1245.36]
b = 0.64 [2.66]
Seff = 0.93 [0.37]
Teq = 250 [25] K
Rp = 3.57 [2.45] Re
a = 1.0094 [0.2540] AU
Ag = 28945.24 [38953.70] [0.74 σ]
Teffp = 5051 [1642] K [2.92 σ]

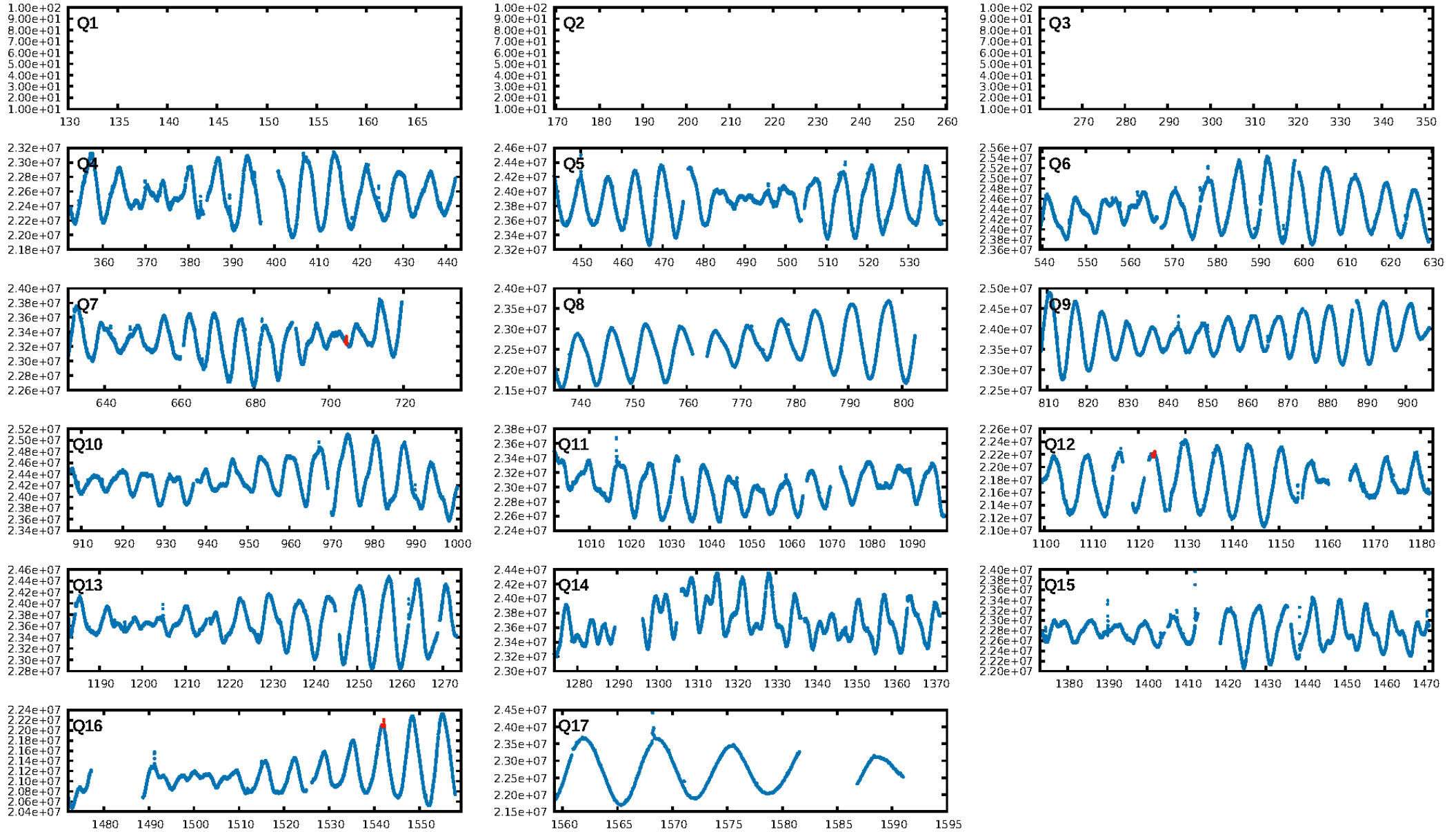
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [7.75 σ]
ModelChiSquare2-sig: 79.7%
ModelChiSquareGof-sig: 97.4%
Bootstrap-pfa: 2.74e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -5.354
Centroid-sig: 25.2%
Centroid-so: 0.801 arcsec [0.70 σ]
OotOffset-rm: 0.200 arcsec [1.22 σ]
OotOffset-st: 0/0/1/0 [1]
KicOffset-rm: 0.114 arcsec [0.76 σ]
KicOffset-st: 0/0/1/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [2/2]

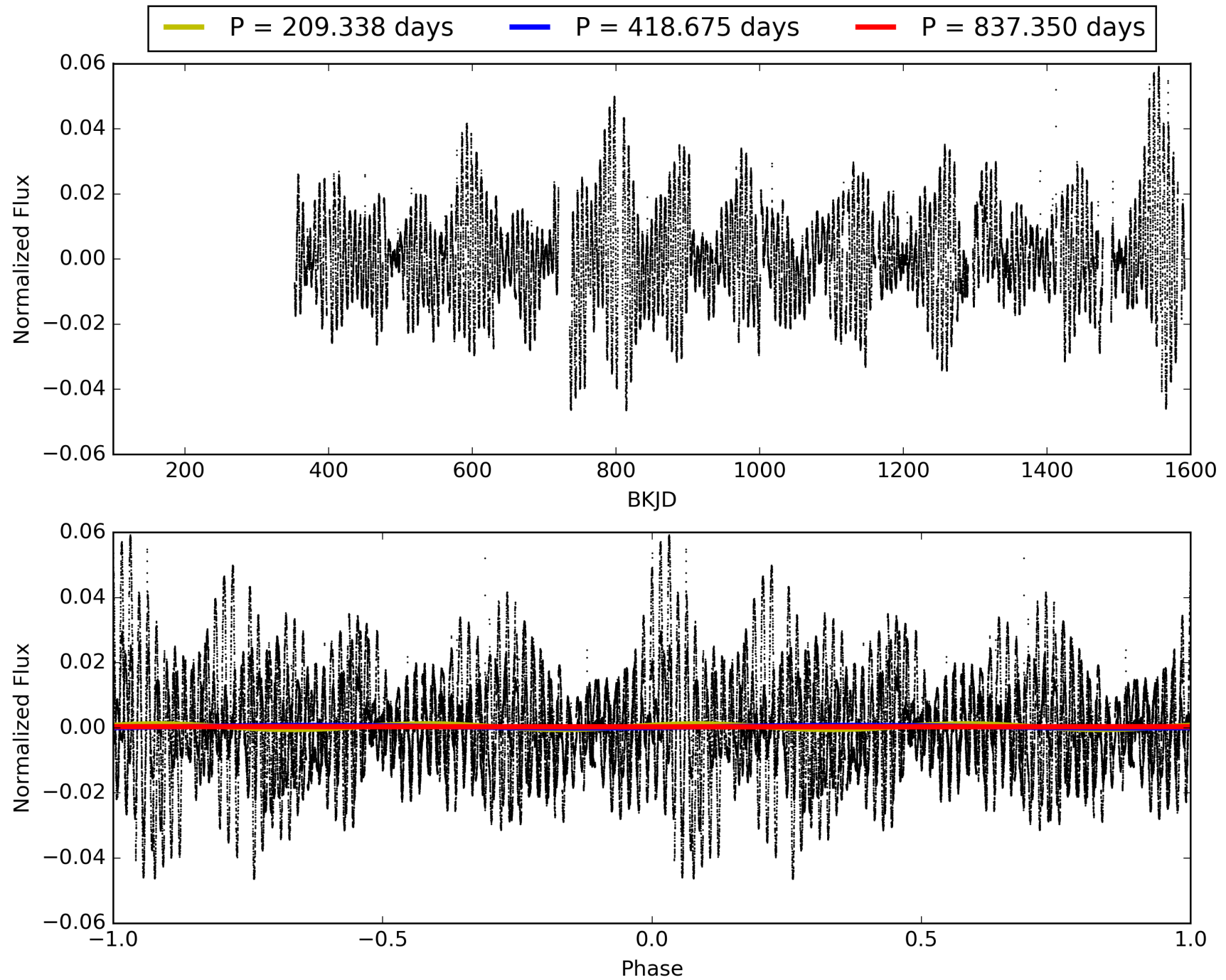
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 12:43:36 Z

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

TCE 007348667-03, PDC Light Curves

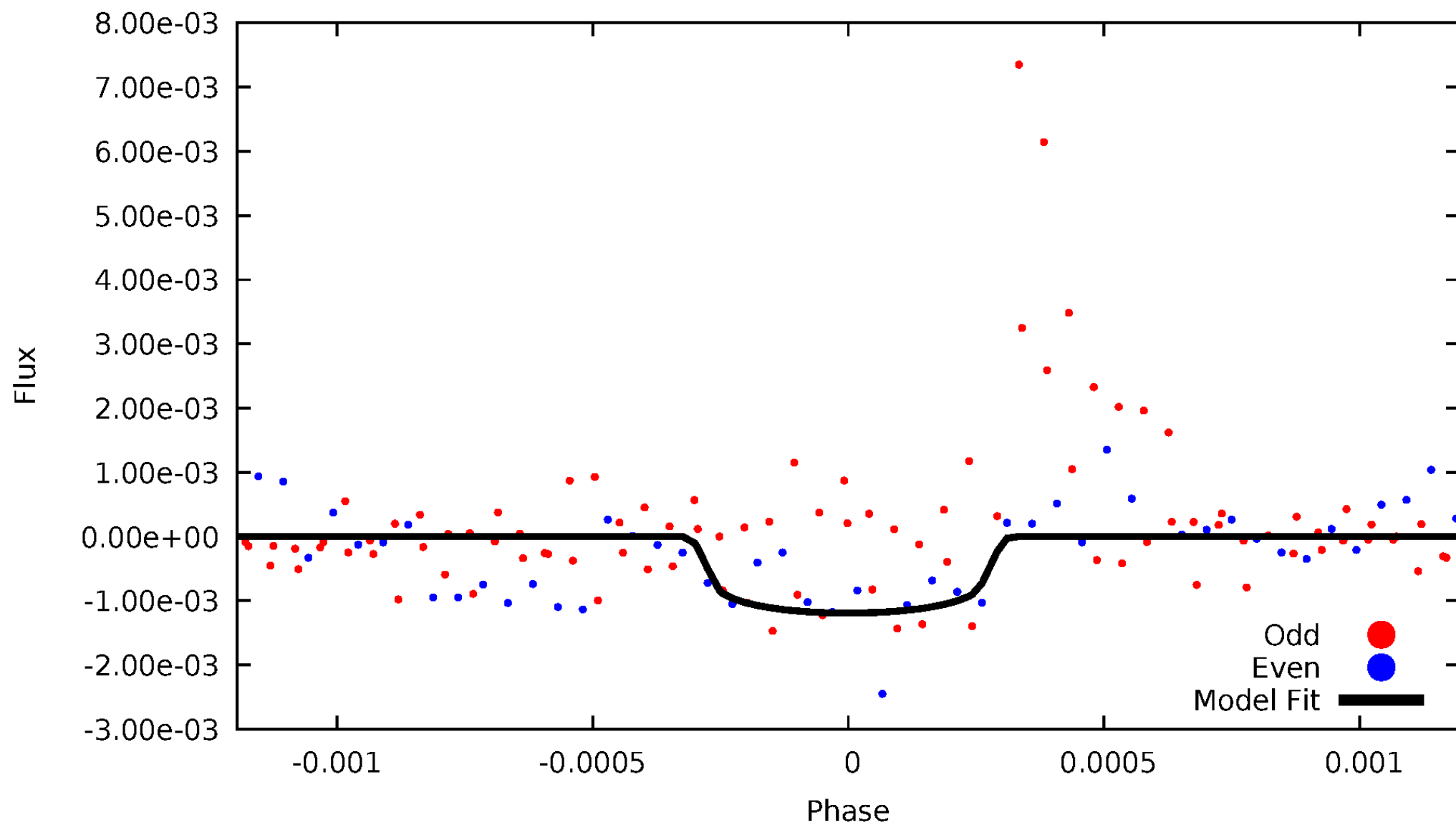


TCE 007348667-03



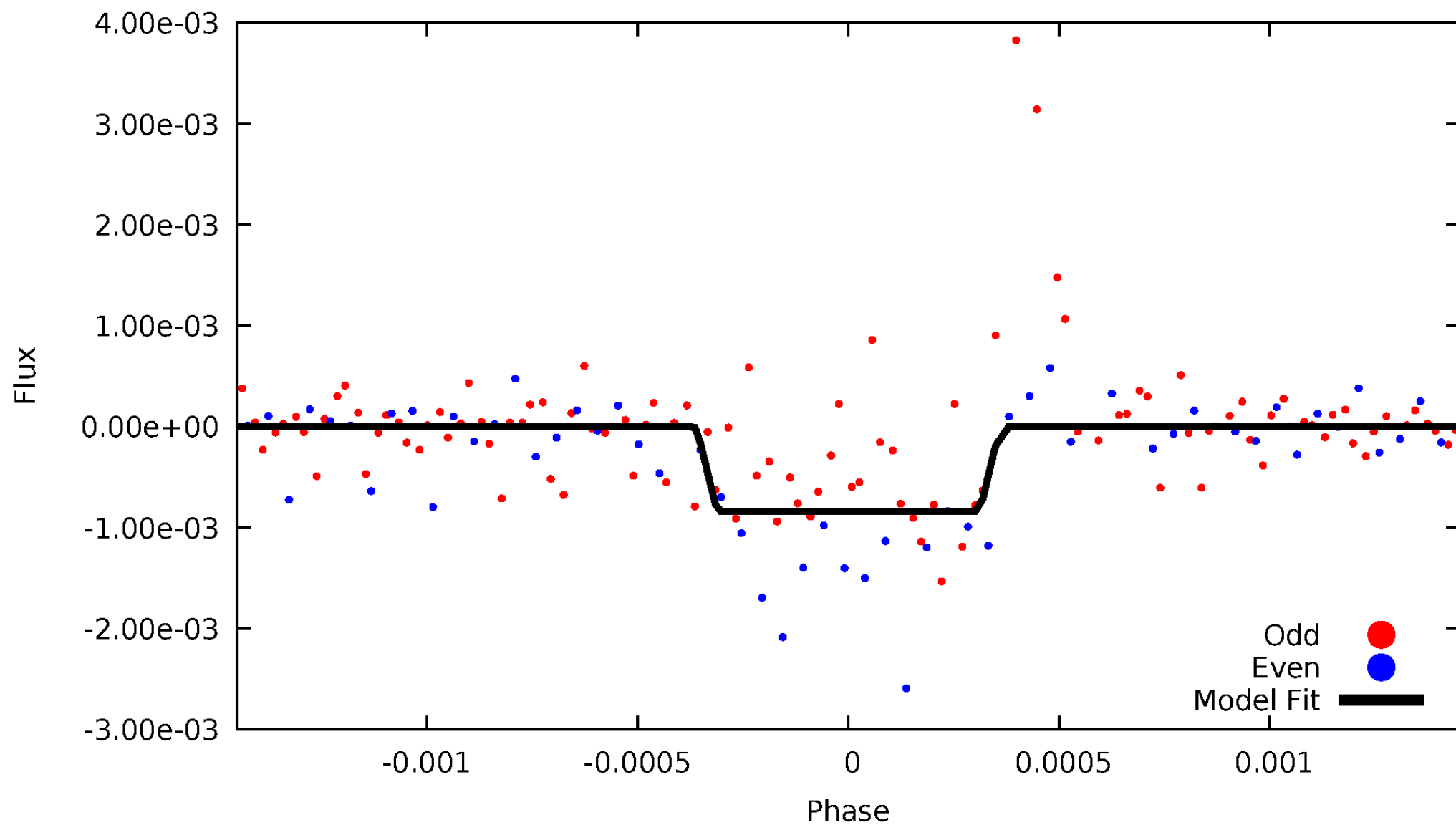
DV Odd/Even

TCE 007348667-03



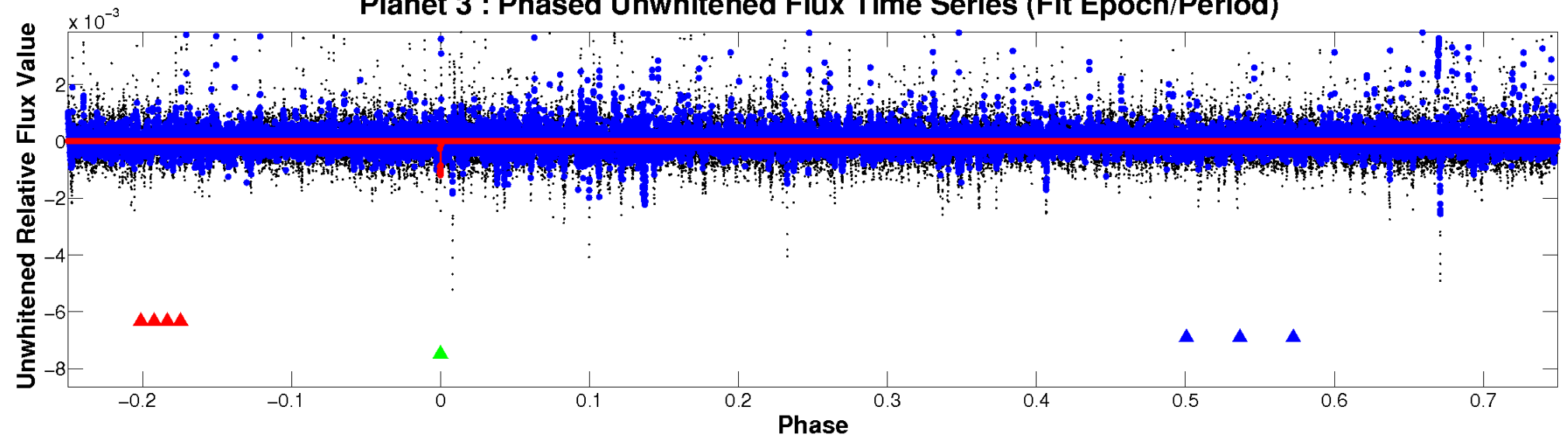
ALT Odd/Even

TCE 007348667-03

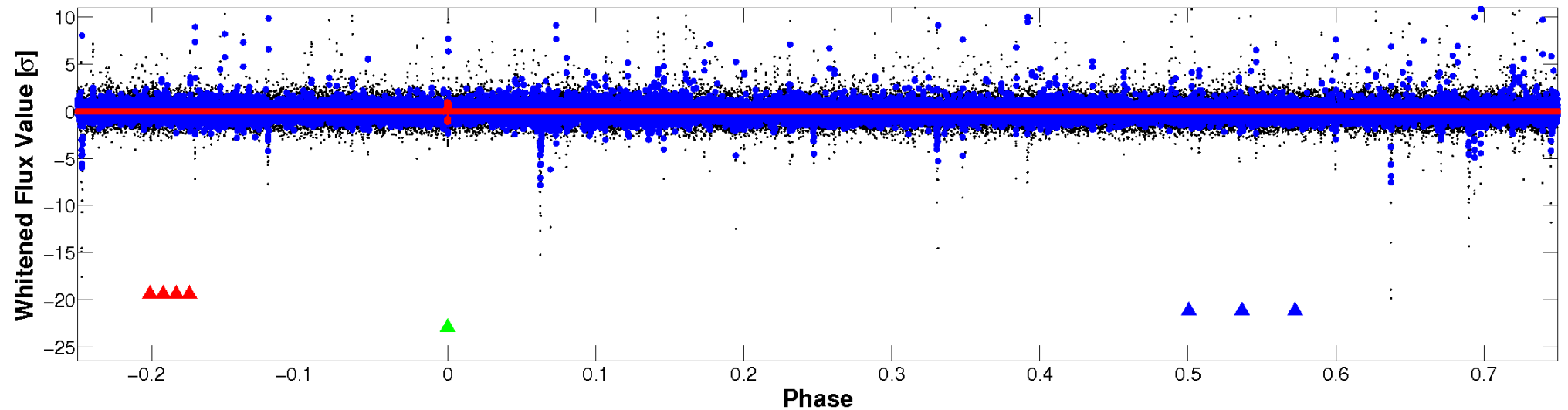


Non-Whitened Vs. Whitened Light Curve

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

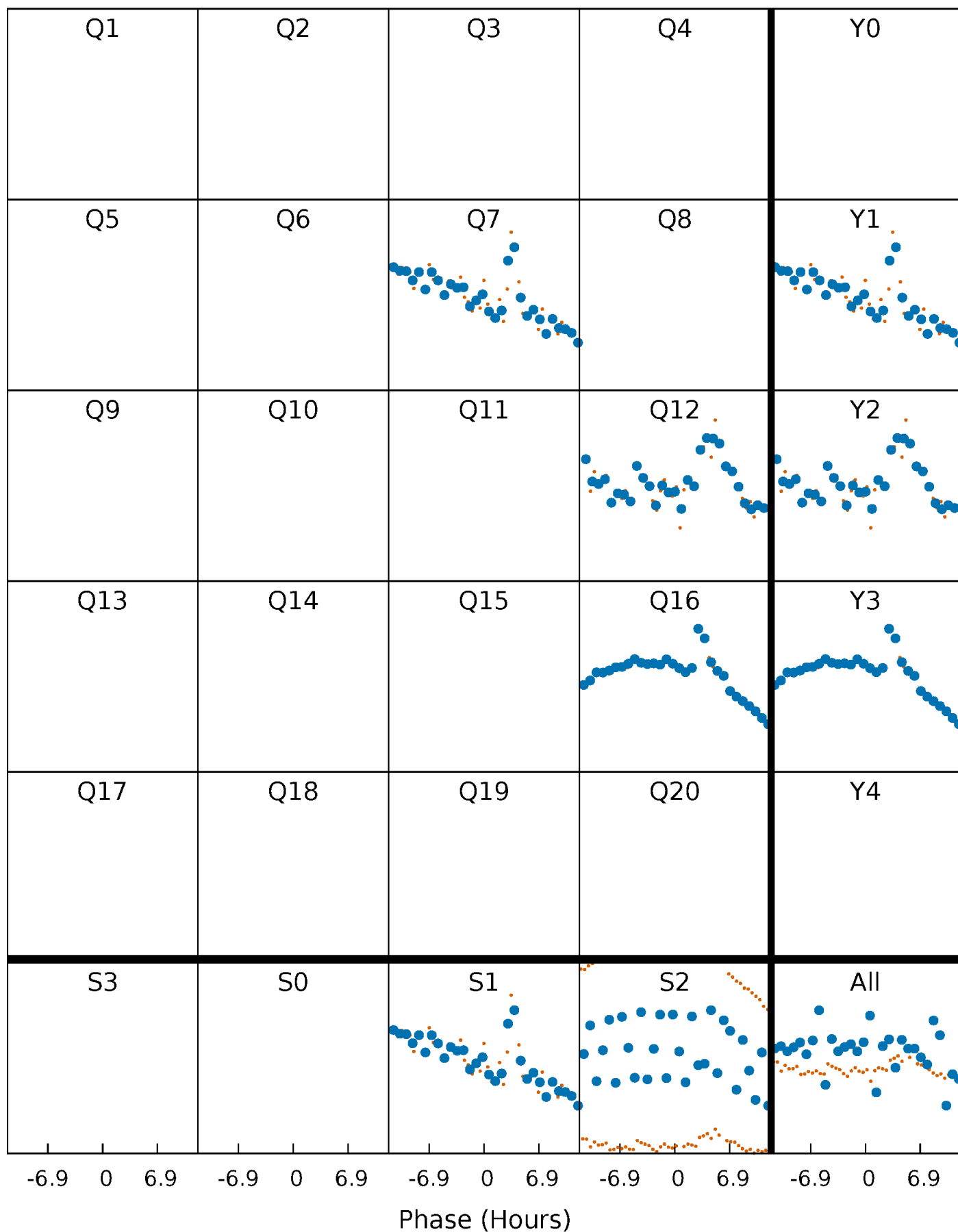


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



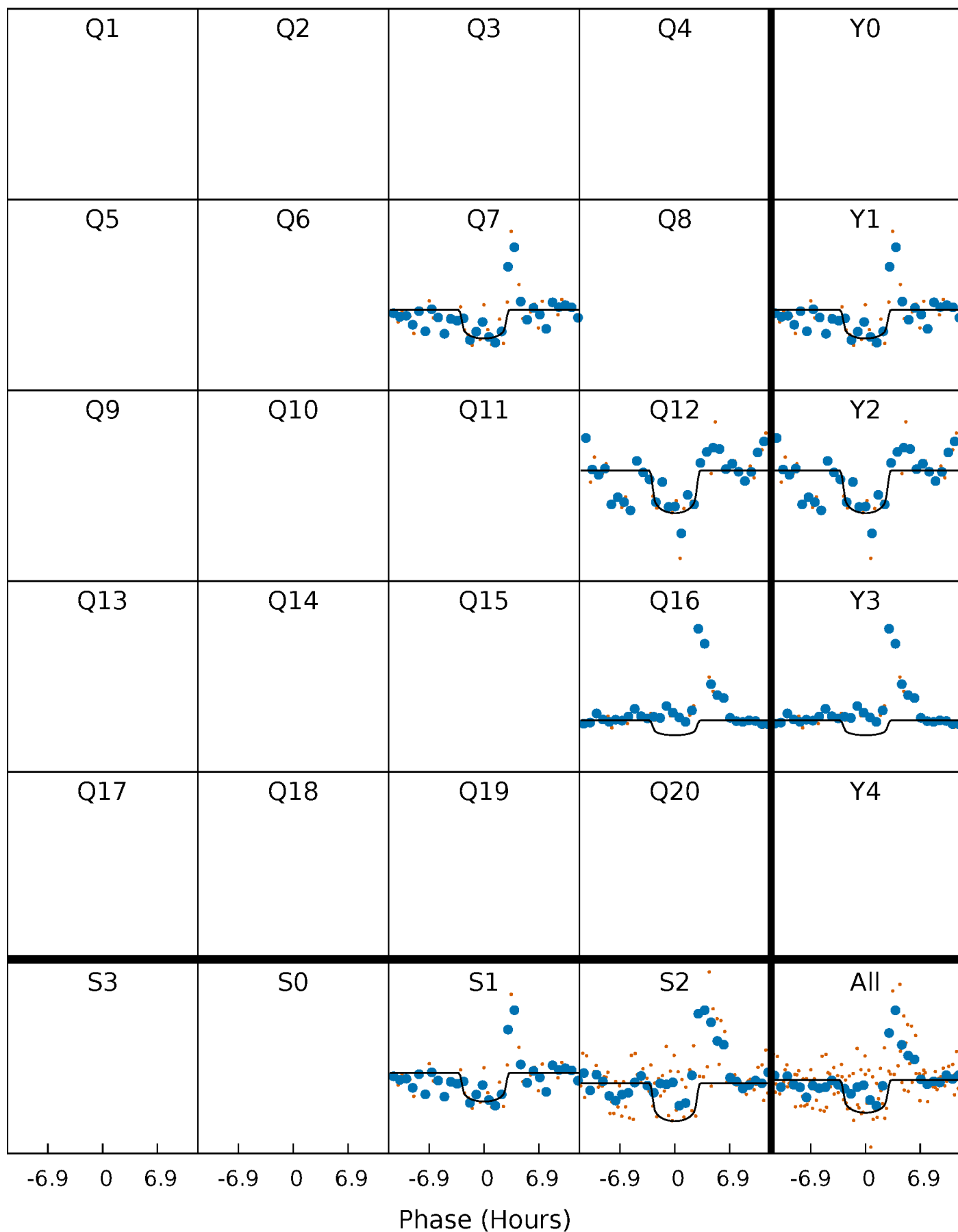
PDC Quarter-Phased Transit Curves

TCE 007348667-03 $P=418.675228$ Days $T_0=285.937048$ (BKJD)



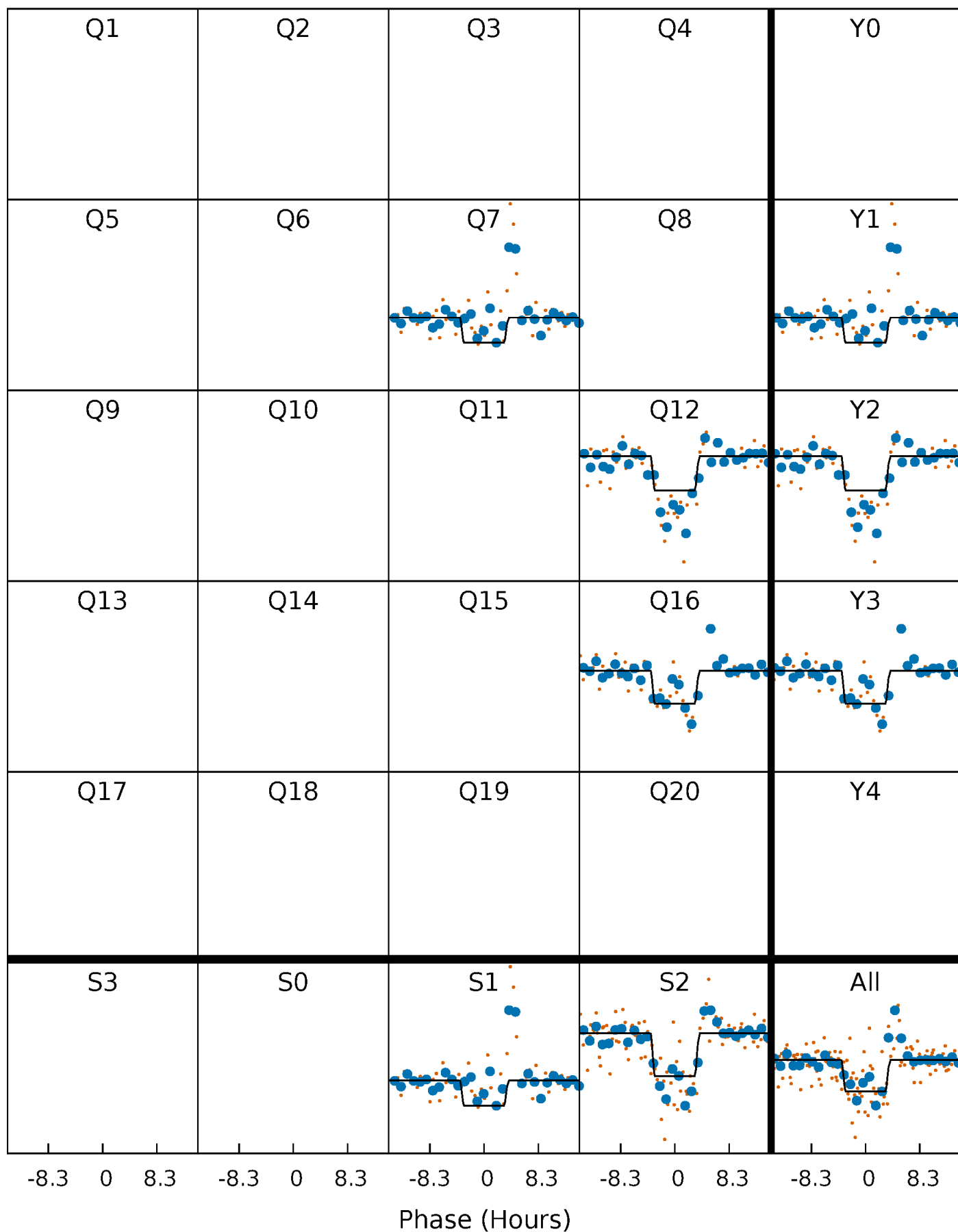
DV Quarter-Phased Transit Curves

TCE 007348667-03 $P=418.675228$ Days $T_0=285.937048$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

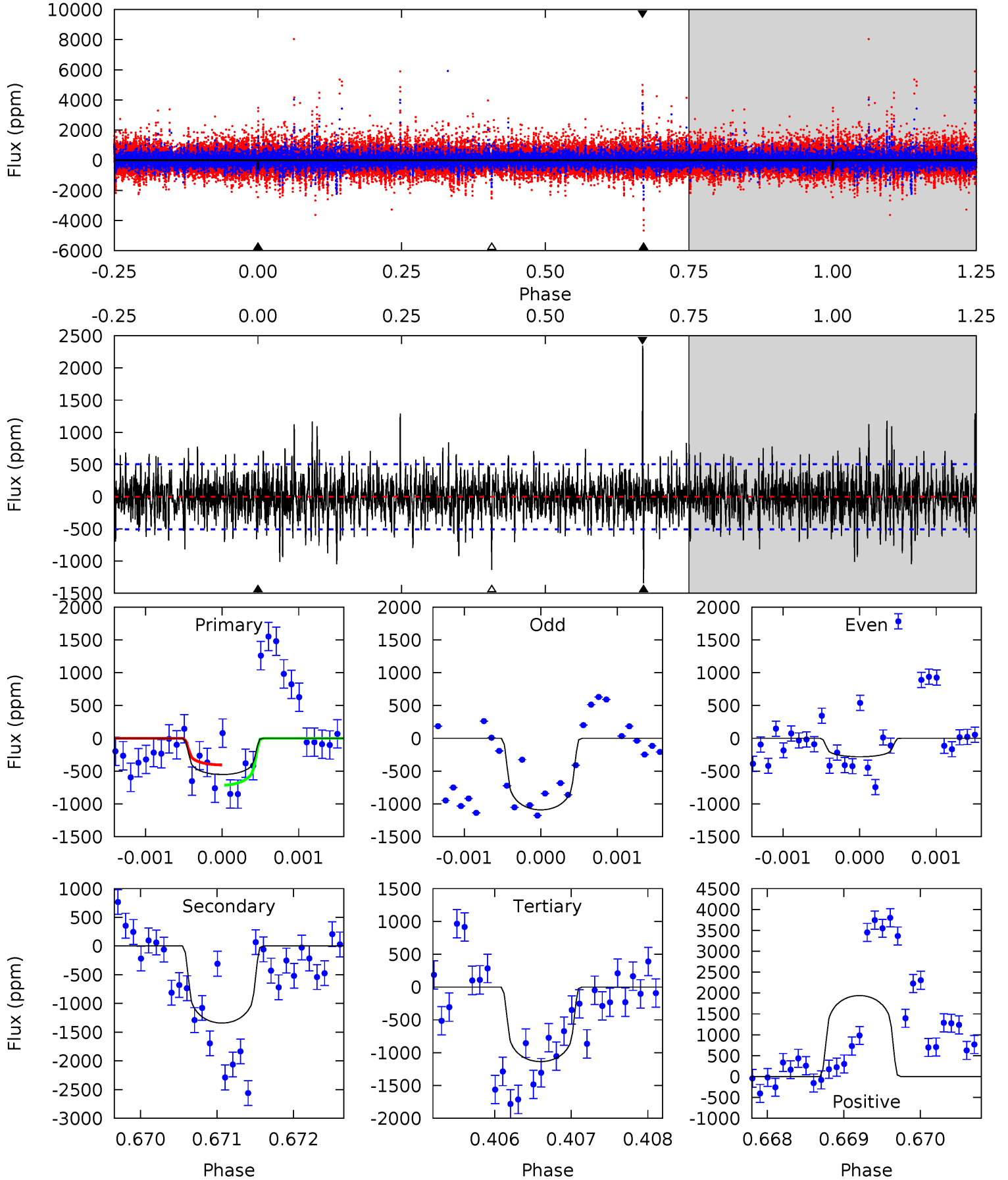
TCE 007348667-03 $P=418.670022$ Days $T_0=285.917826$ (BKJD)



DV Model-Shift Uniqueness Test

007348667-03, P = 418.675228 Days, E = 285.937048 Days

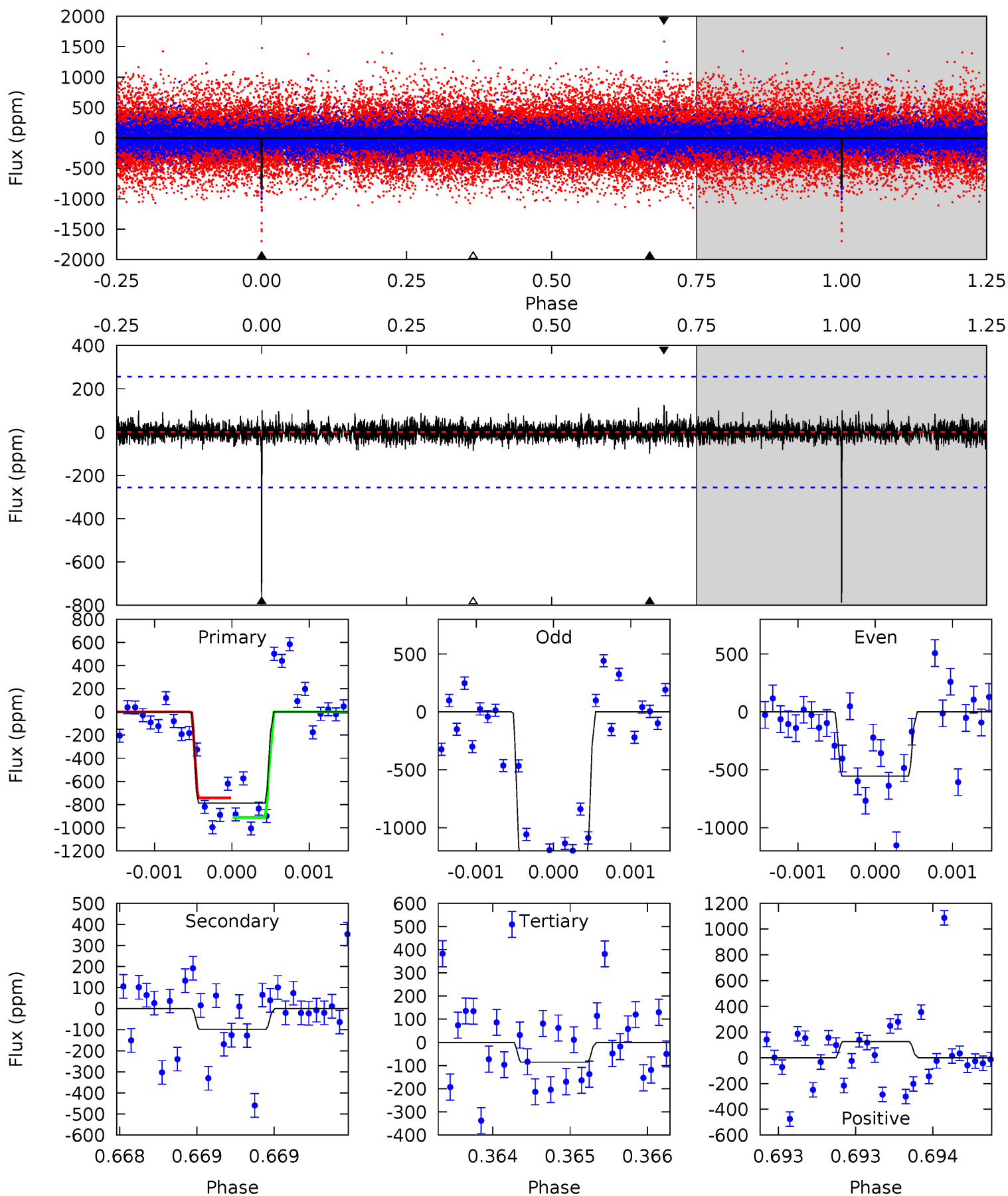
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.04	14.7	12.4	21.2	5.53	3.42	2.66	-6.38	-15.2	2.25	-6.54	3.54	0.53	0.64	1.69



Alt Model-Shift Uniqueness Test

007348667-03, P = 418.670022 Days, E = 285.917826 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.0	2.13	1.84	2.69	5.51	3.39	0.48	15.1	14.3	0.28	-0.56	7.38	1.07	0.14	1.82



Stellar Parameters For KIC 007348667

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5759^{+190}_{-190}	$4.348^{+0.205}_{-0.205}$	$-0.500^{+0.300}_{-0.300}$	$0.981^{+0.289}_{-0.193}$	$0.780^{+0.123}_{-0.053}$	$1.165^{+1.226}_{-0.601}$
	+3%/-3%	+5%/-5%	+60%/-60%	+29%/-20%	+16%/-7%	+105%/-52%
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 007348667-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1341 ± 91	$3.97^{+2.29}_{-2.08}$	349^{+27}_{-25}	5801^{+3068}_{-1037}	$49463^{+170682}_{-29675}$
Alt.	-99 ± 46	$3.27^{+2.38}_{-1.90}$	350^{+30}_{-25}	3647^{+1398}_{-587}	5007^{+22570}_{-3585}

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

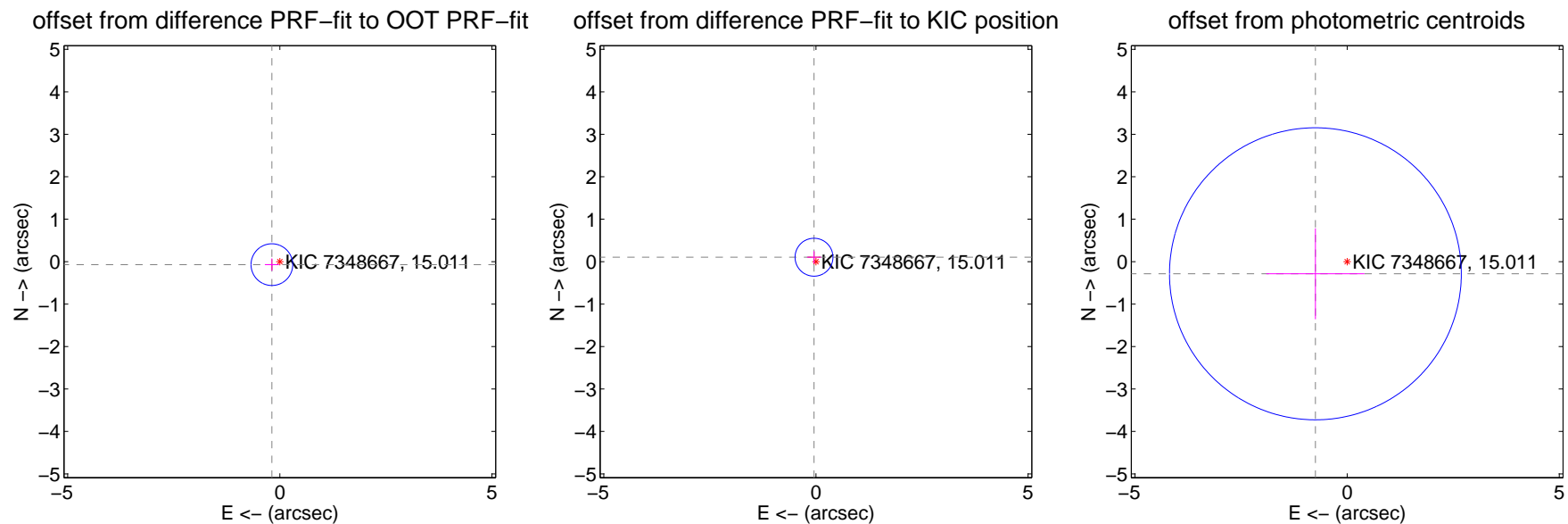
DV Centroid Data

Supplemental centroid analysis for 007348667-03. Kepler magnitude: 15.01. Transit SNR 6.75

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.200 ± 0.164	1.22	0.187 ± 0.166	-0.070 ± 0.145
PRF-fit source offset from KIC position	0.114 ± 0.149	0.76	0.045 ± 0.166	0.104 ± 0.145
photometric centroid source offset	0.80 ± 1.15	0.70	0.75 ± 1.16	-0.29 ± 1.07

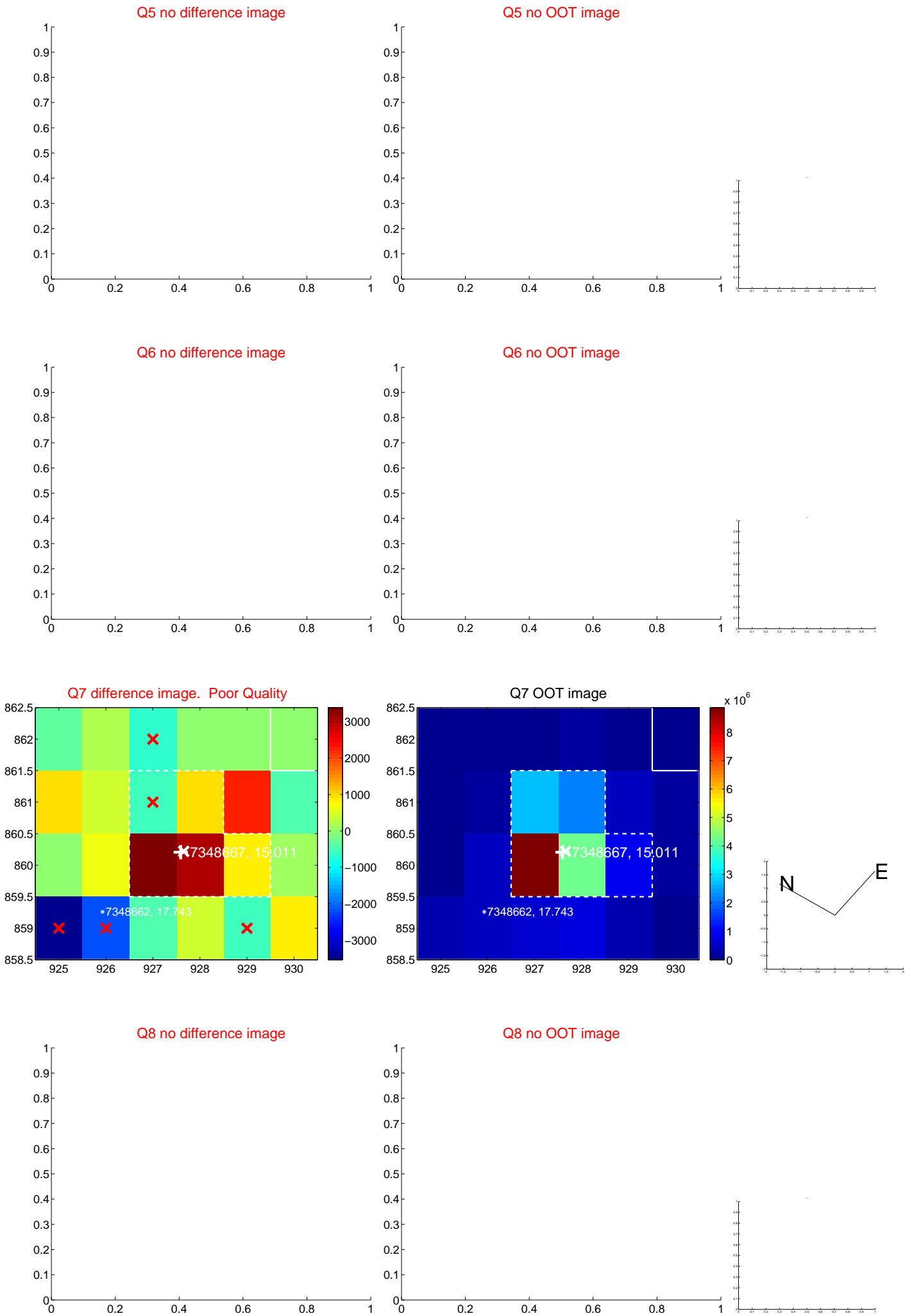


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



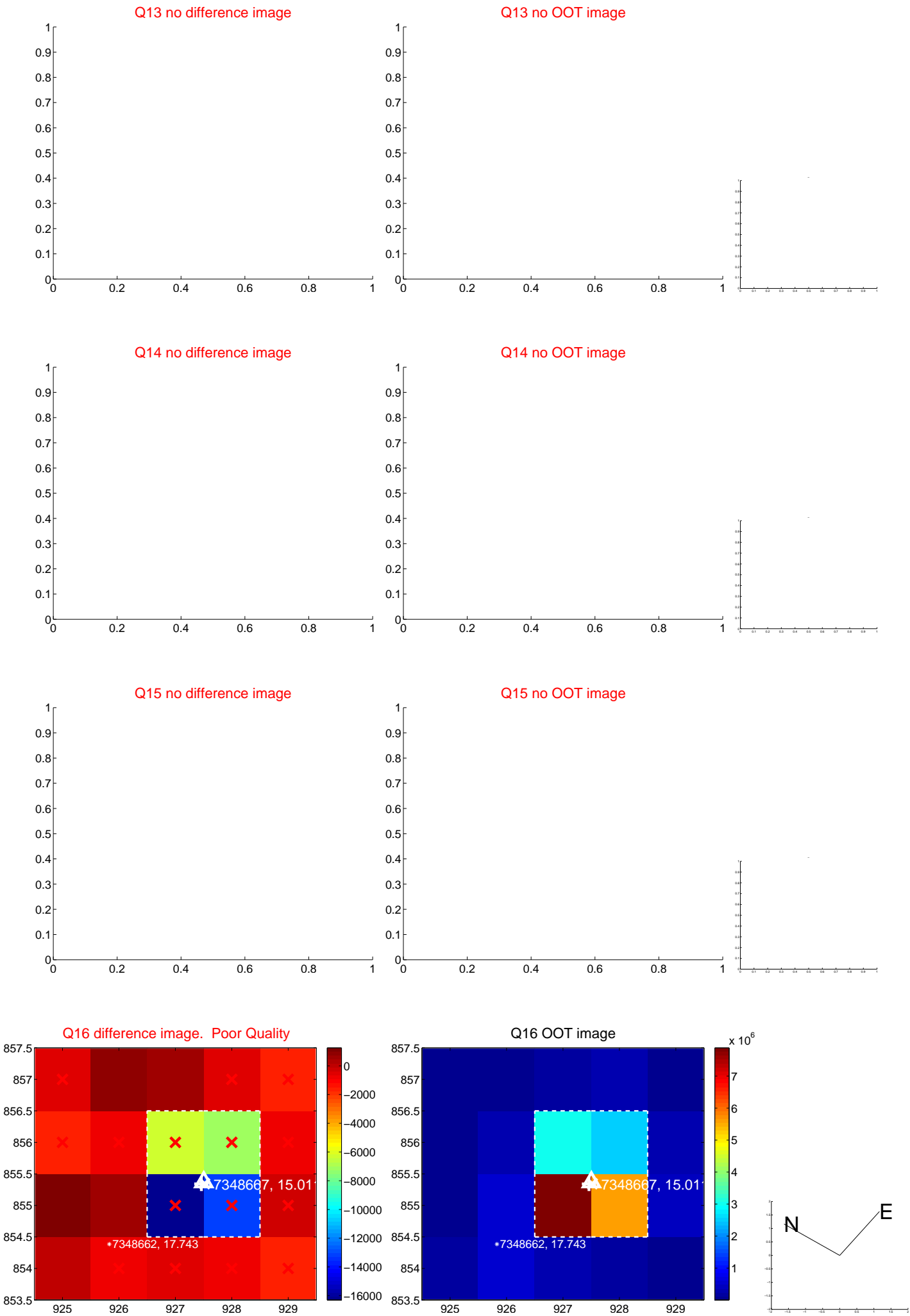
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



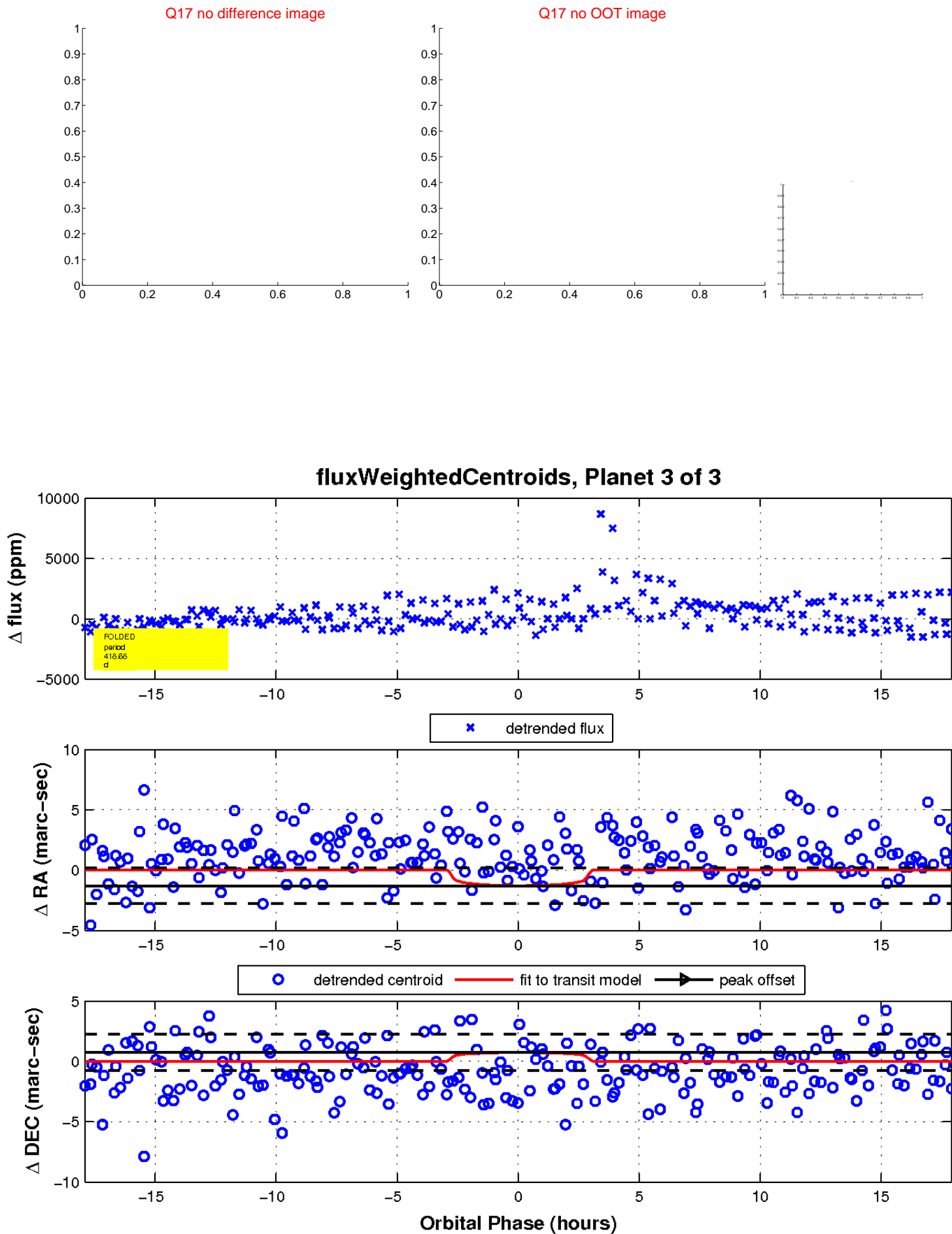
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

