

KIC 006763067

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})
006763067-01	OBS	No	660.583256	197.997659	2927.2	16.547	12.6	8.2	0.44	3692	2.36	0.02
006763067-02	OBS	No	378.772476	434.017657	2050.0	3.838	12.1	7.5	0.44	3692	2.06	0.05
006763067-03	OBS	No	431.943060	254.244413	2227.1	12.065	8.9	7.7	0.44	3692	2.15	0.04

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006763067-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006763067-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006763067-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—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.

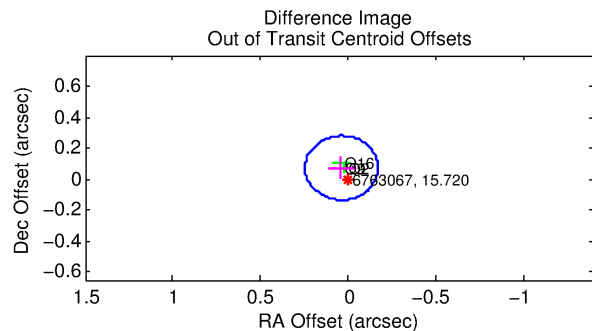
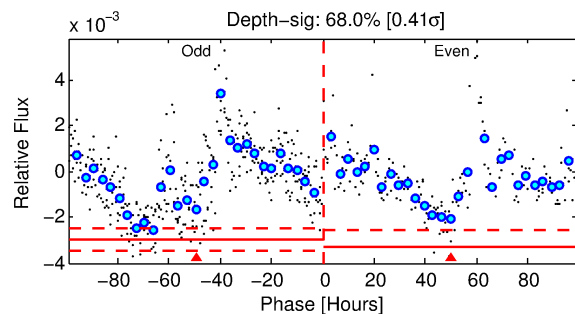
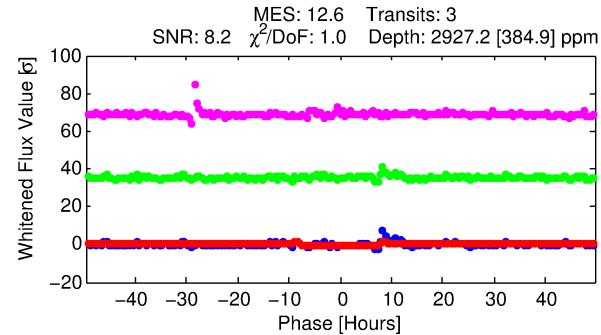
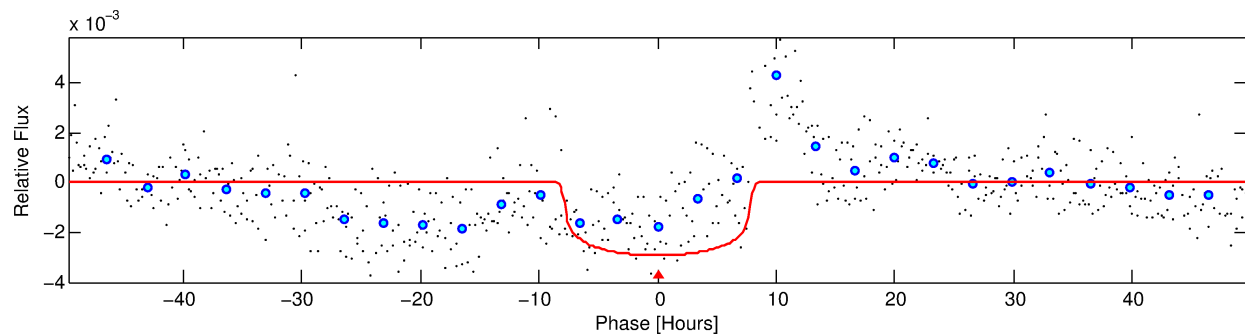
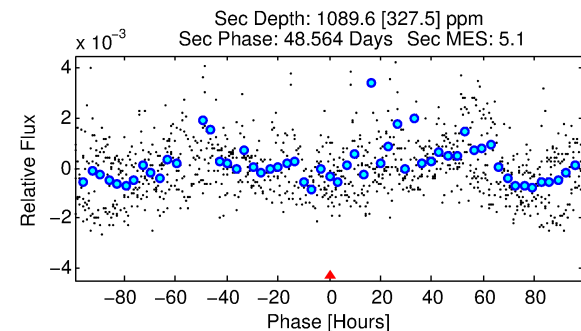
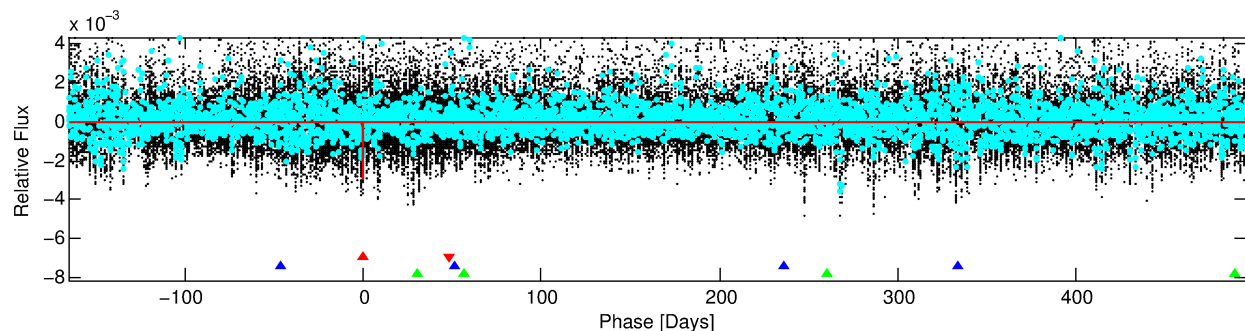
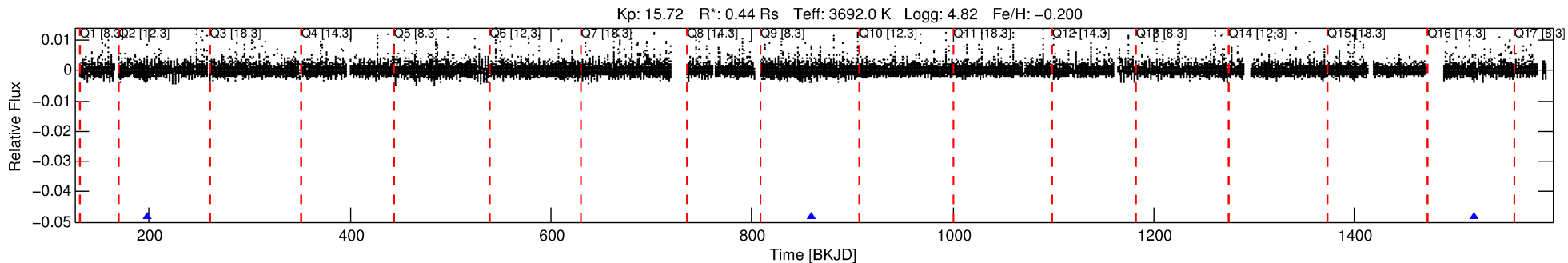
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006763067-01

No Significant Match Found

DV One-Page Summary

KIC: 6763067 Candidate: 1 of 3 Period: 660.583 d



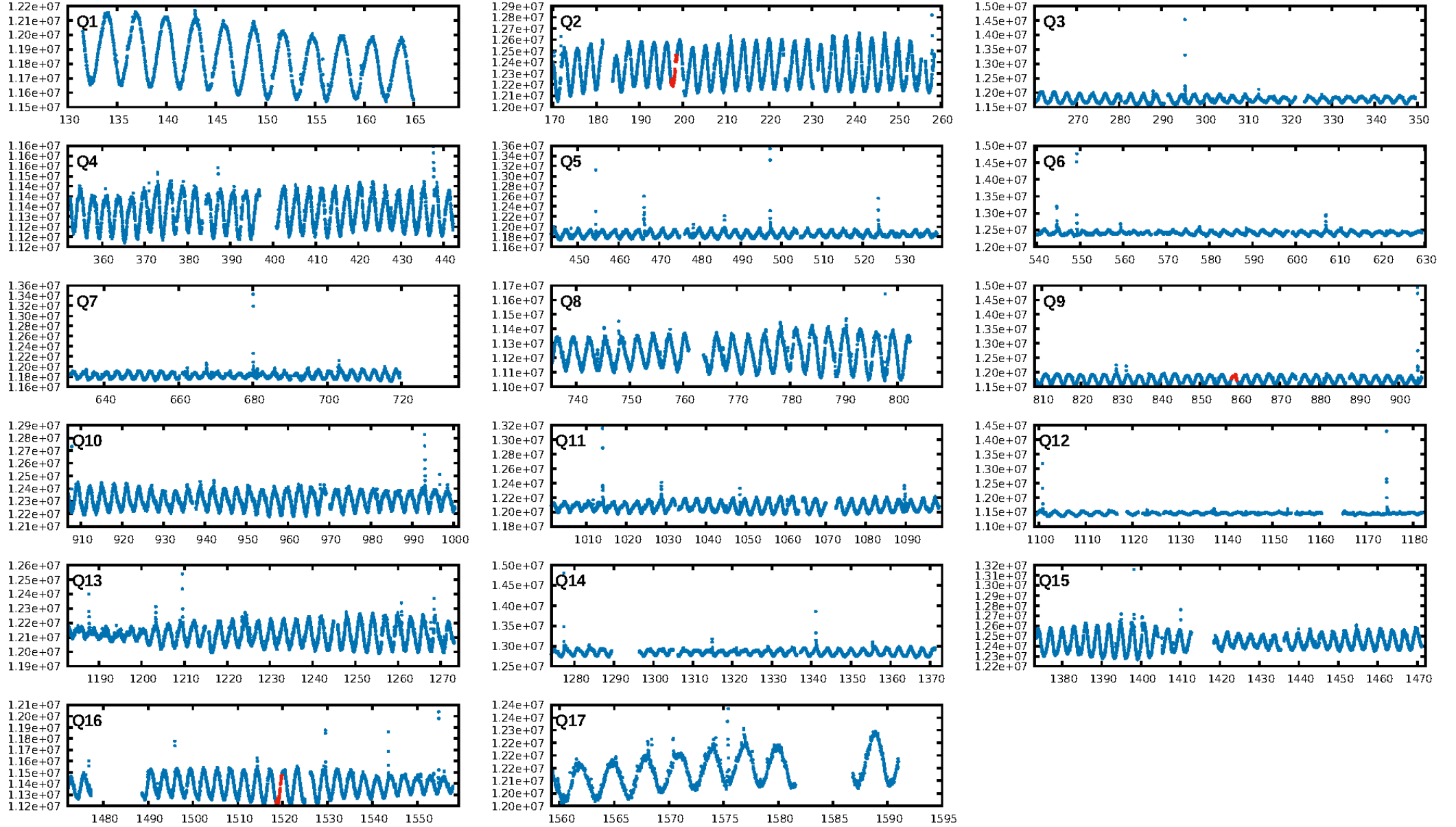
DV Fit Results:

Period = 660.58326 [0.00689] d
Epoch = 197.9977 [0.0088] BKJD
Rp/R* = 0.0492 [0.0061]
a/R* = 320.00 [139.75]
b = 0.00 [1018.62]
Seff = 0.02 [0.00]
Teq = 101 [3] K
Rp = 2.36 [0.35] Re
a = 1.1480 [0.0703] AU
Ag = 142024.26 [56400.43] [2.52σ]
Teffp = 3023 [299] K [9.77σ]

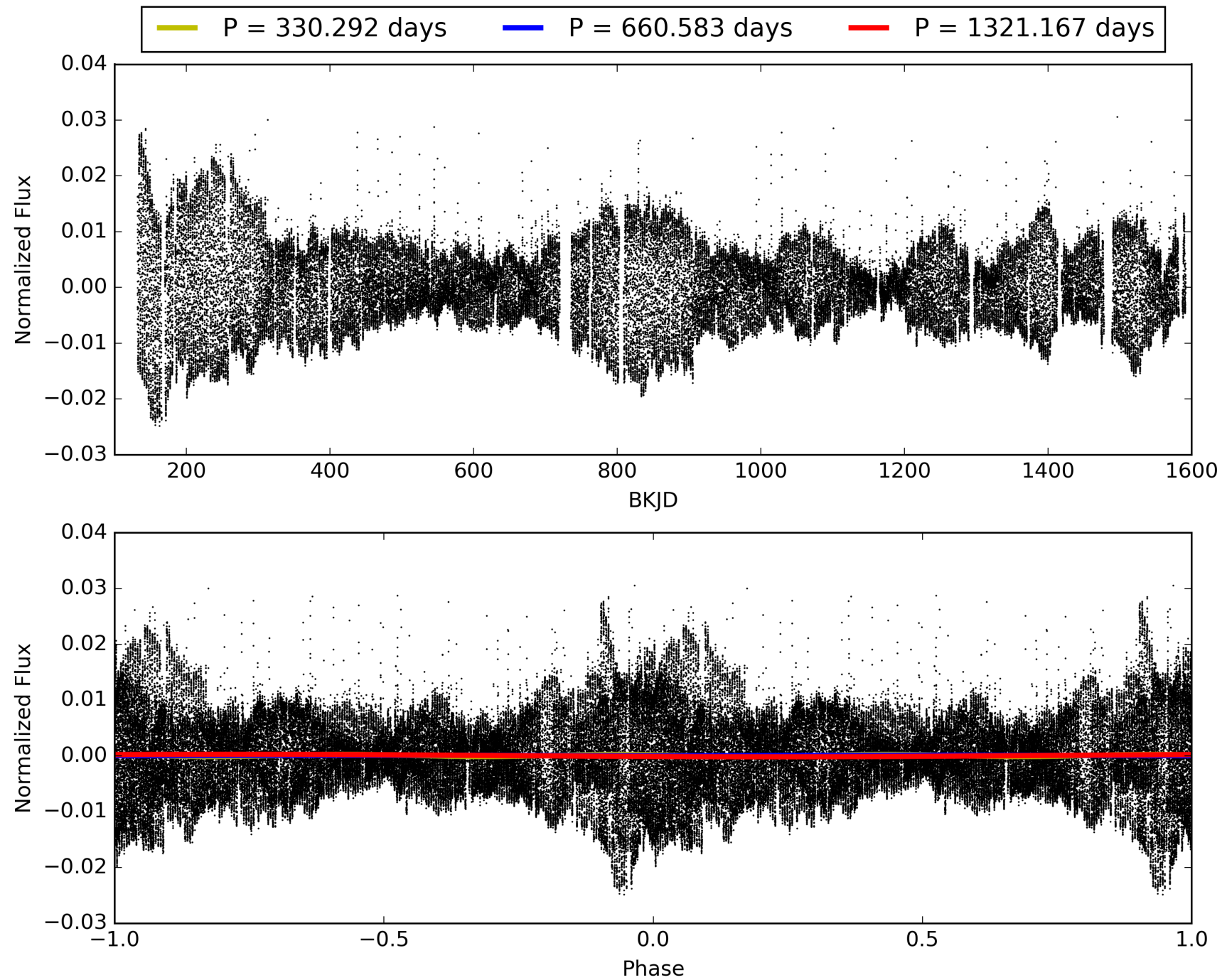
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [267.96σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 73.0%
ModelChiSquareGof-sig: 95.6%
Bootstrap-pfa: 3.63e-13
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.03017
Centroid-sig: 85.9%
Centroid-so: 0.254 arcsec [0.80σ]
OotOffset-rm: 0.083 arcsec [1.21σ]
KicOffset-rm: 0.164 arcsec [1.92σ]
OotOffset-st: 1/0/1/1 [3]
KicOffset-st: 1/0/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 006763067-01, PDC Light Curves

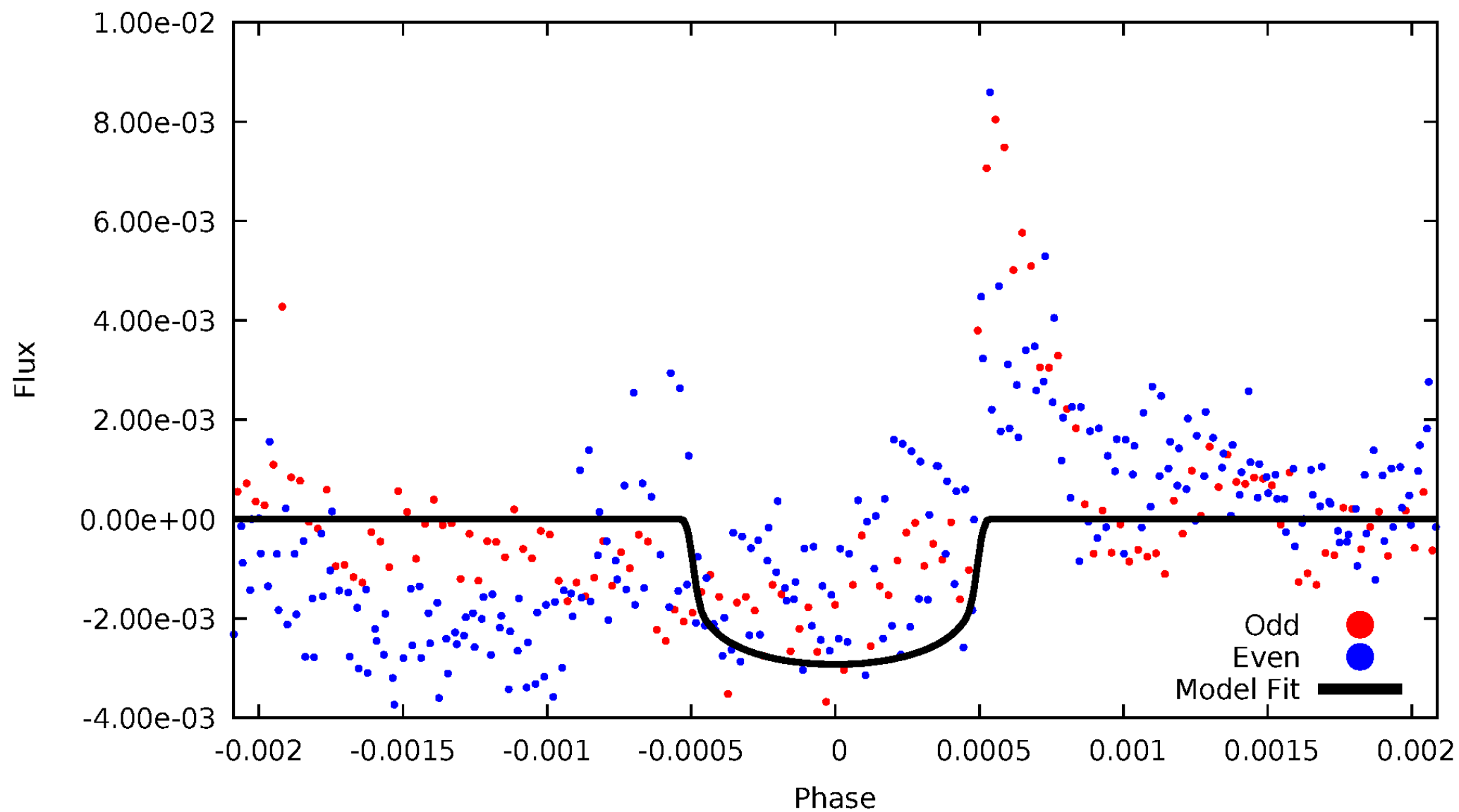


TCE 006763067-01



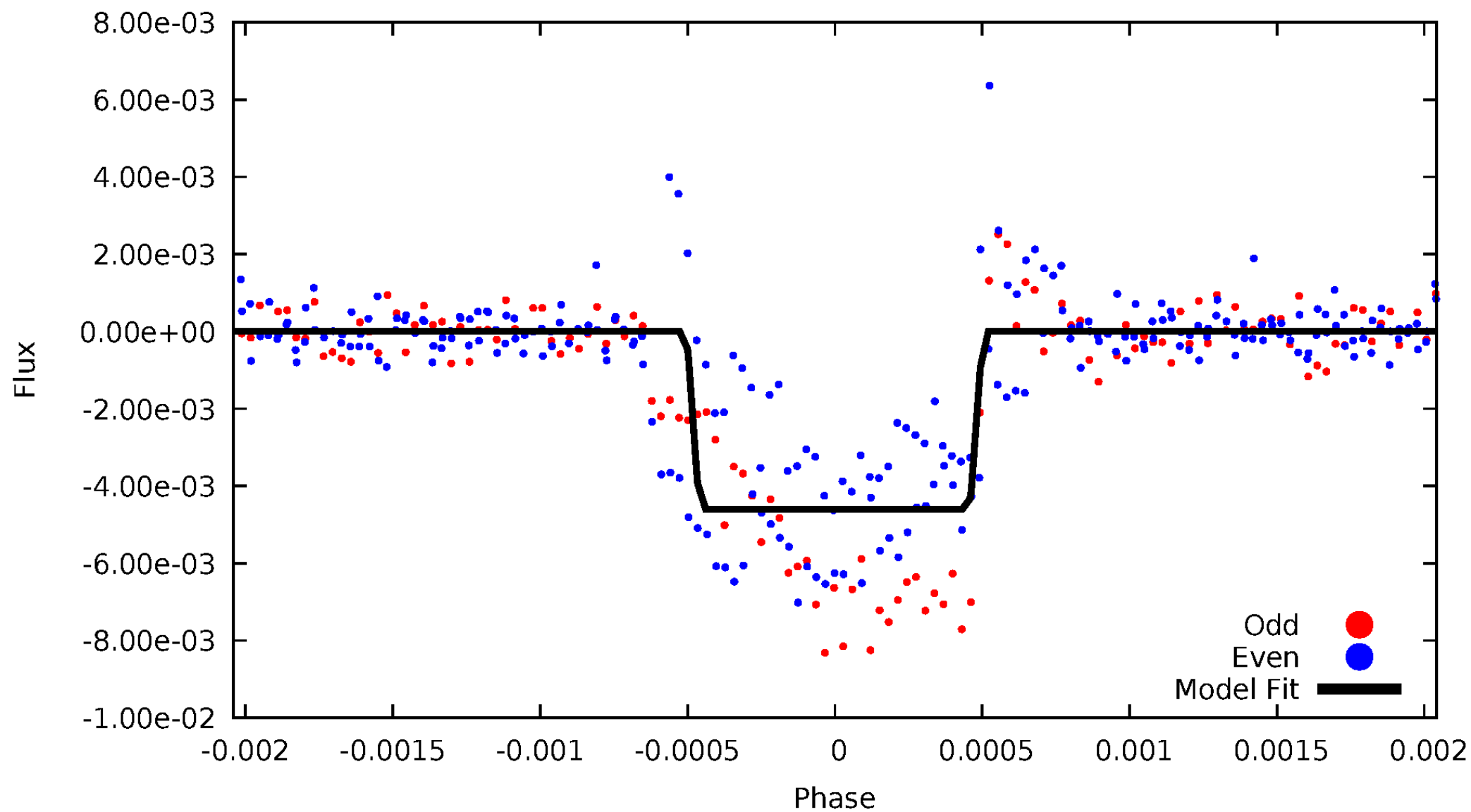
DV Odd/Even

TCE 006763067-01



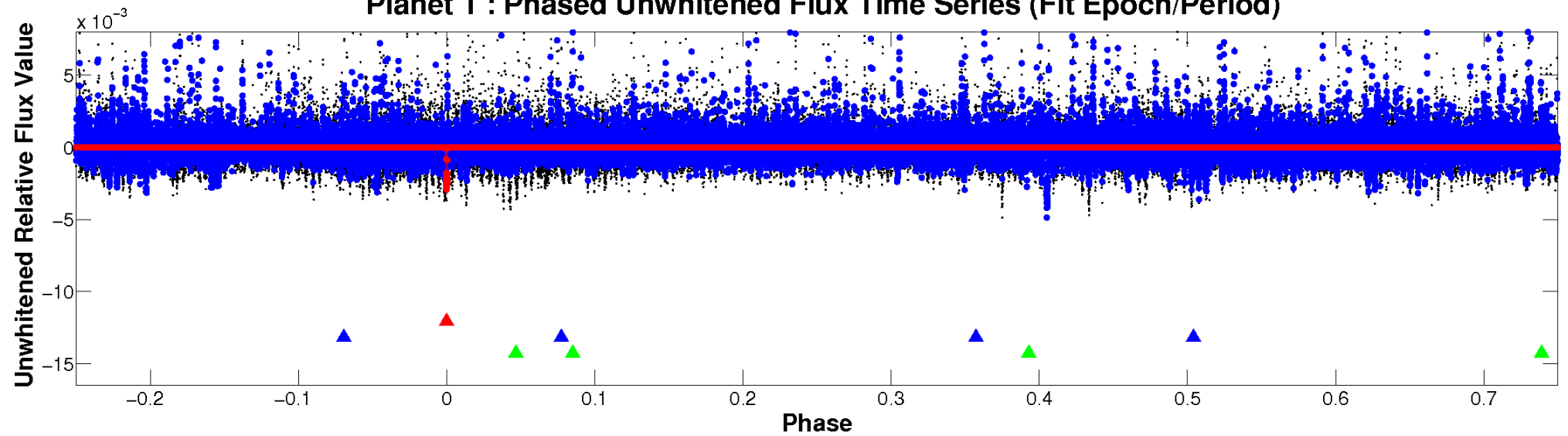
ALT Odd/Even

TCE 006763067-01

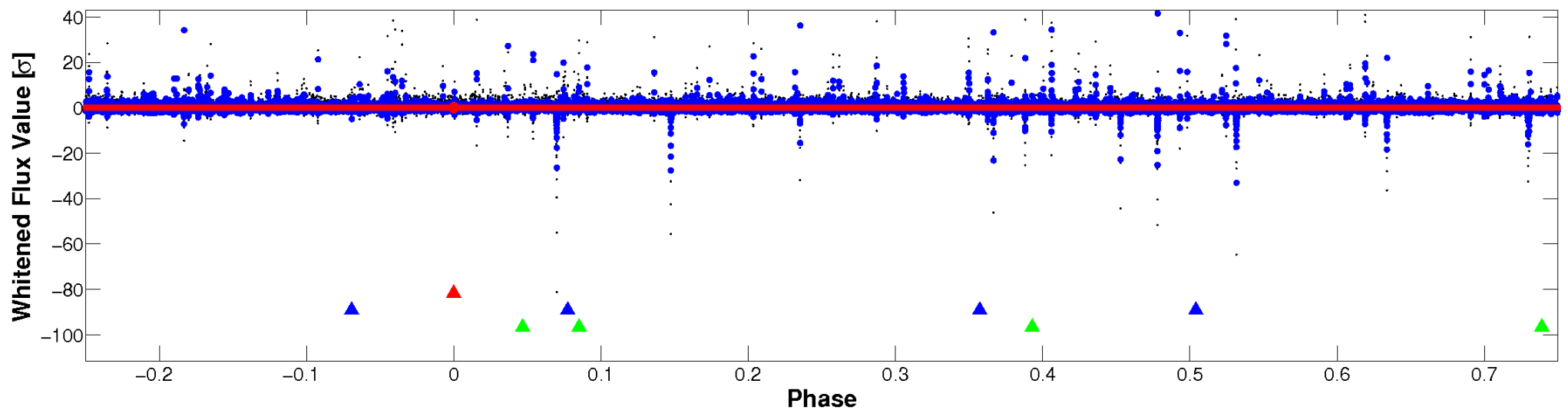


Non-Whitened Vs. Whitened Light Curve

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

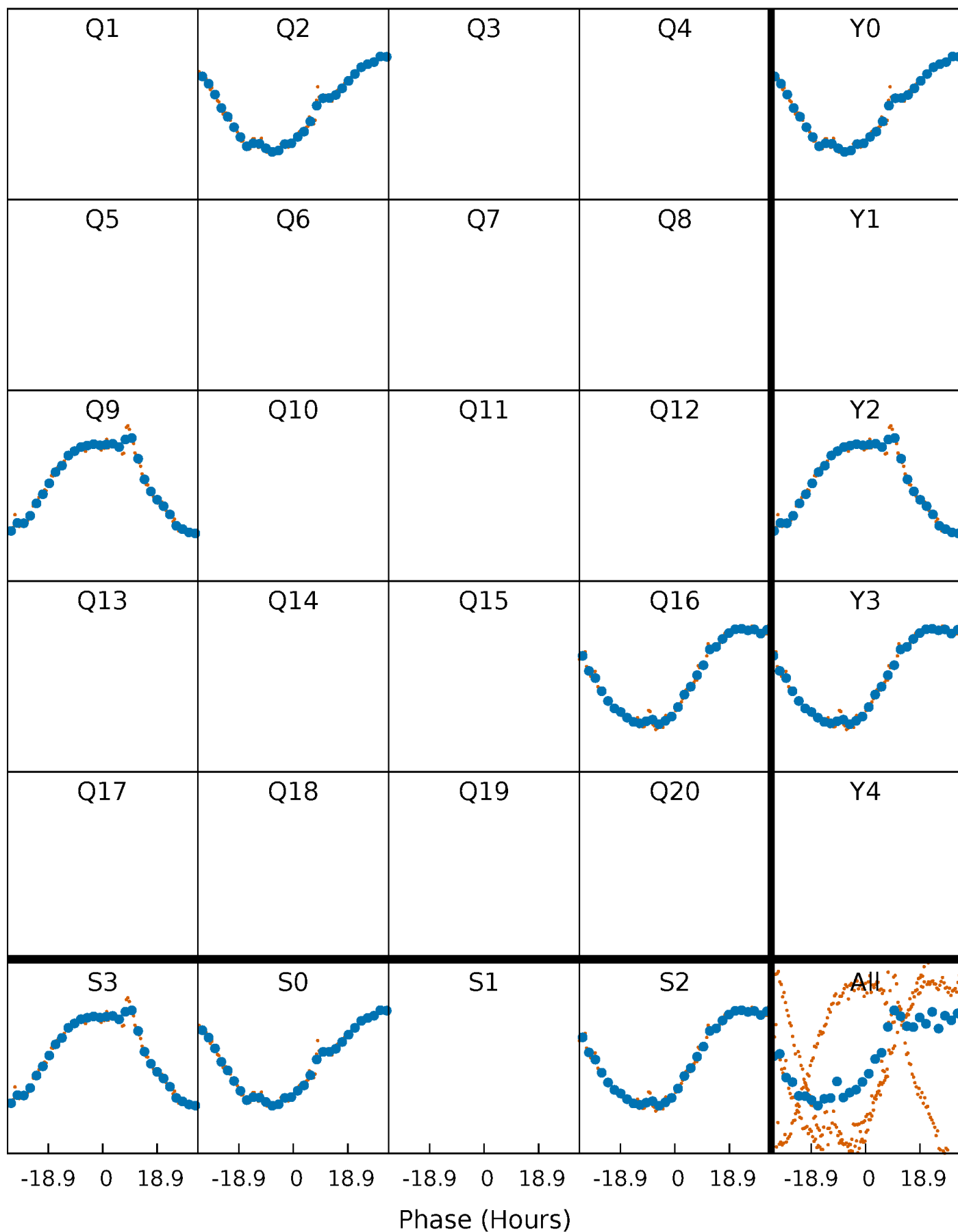


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



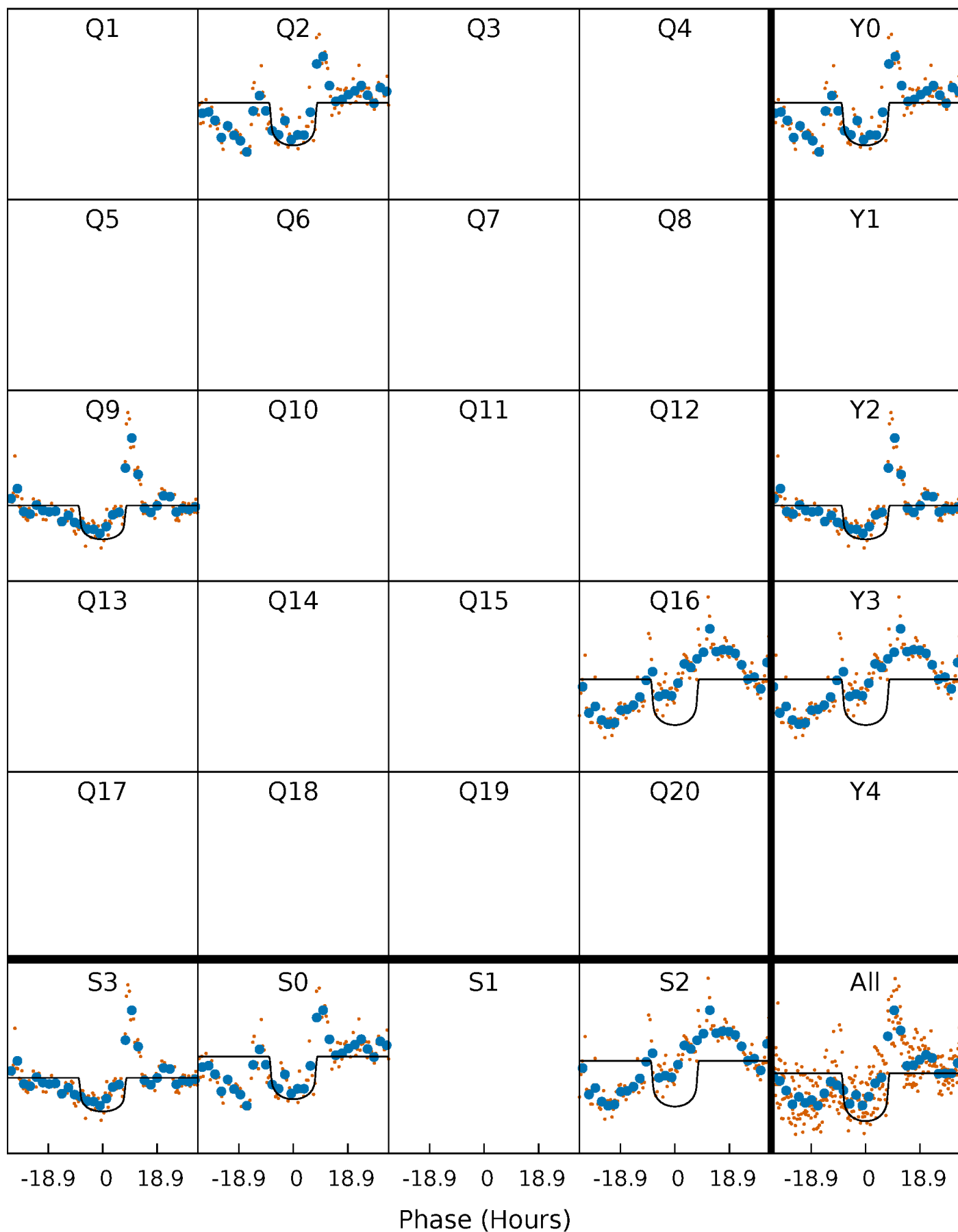
PDC Quarter-Phased Transit Curves

TCE 006763067-01 P=660.583256 Days $T_0=197.997659$ (BKJD)



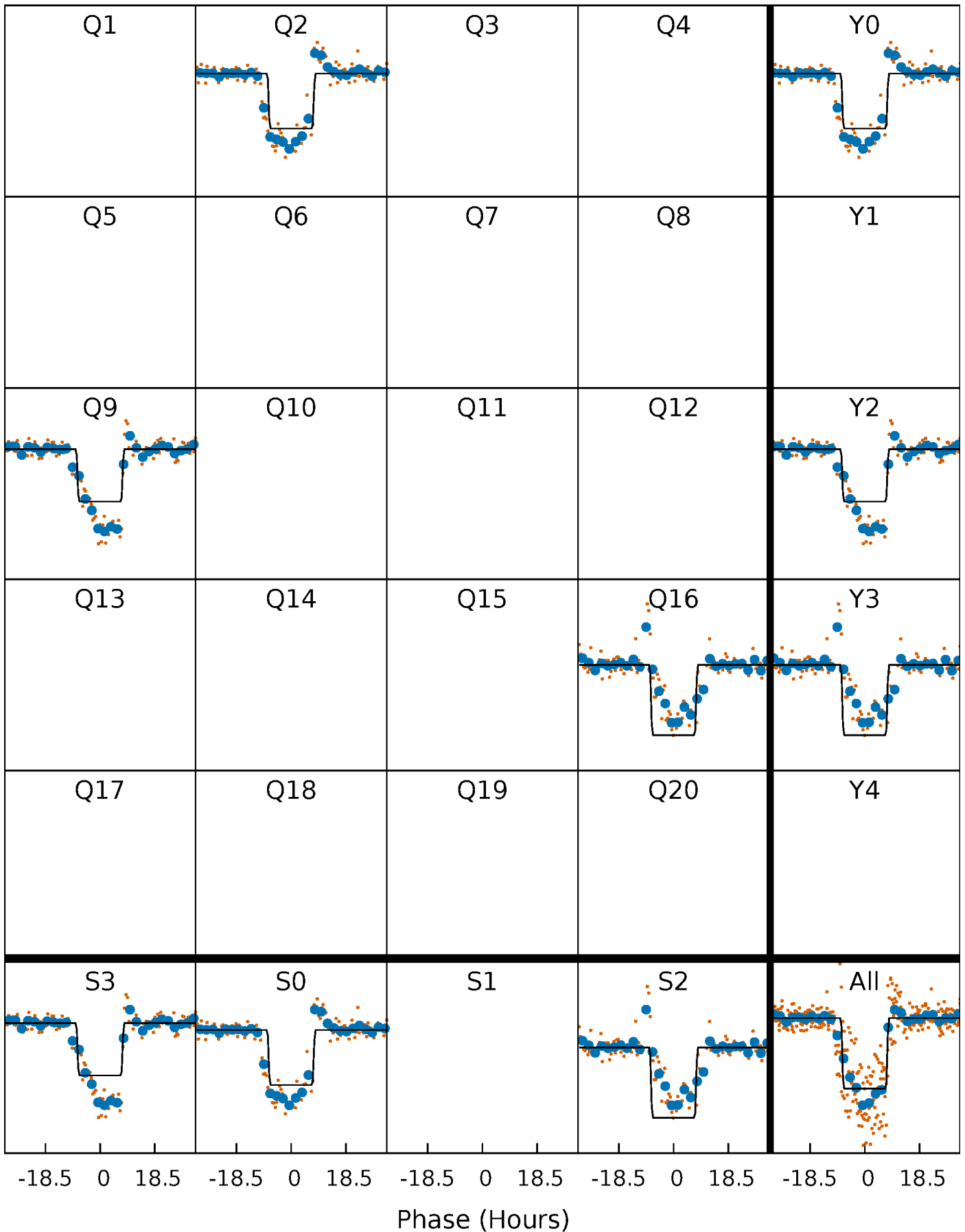
DV Quarter-Phased Transit Curves

TCE 006763067-01 P=660.583256 Days $T_0=197.997659$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

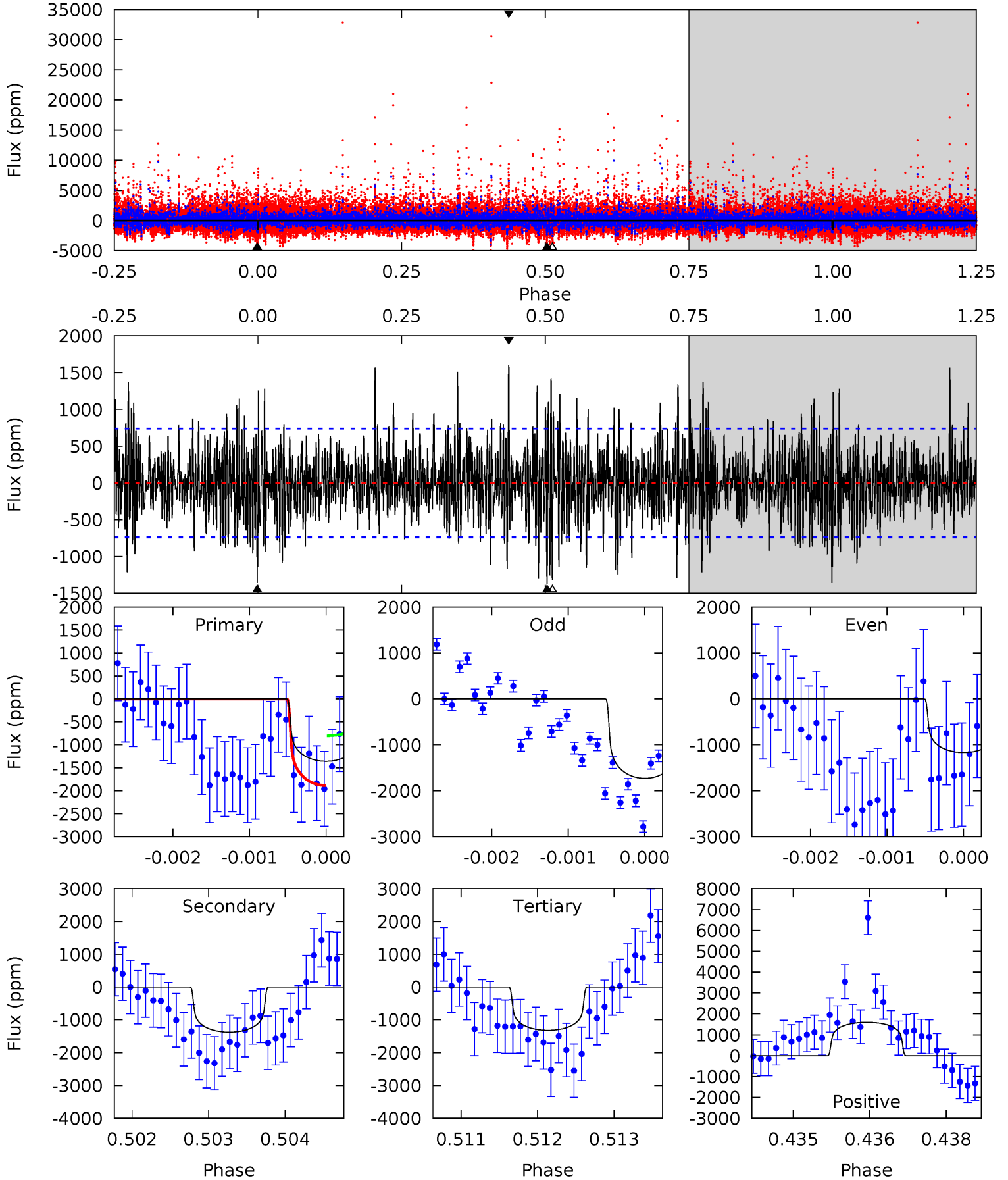
TCE 006763067-01 P=660.576128 Days $T_0=198.006098$ (BKJD)



DV Model-Shift Uniqueness Test

006763067-01, P = 660.583256 Days, E = 197.997659 Days

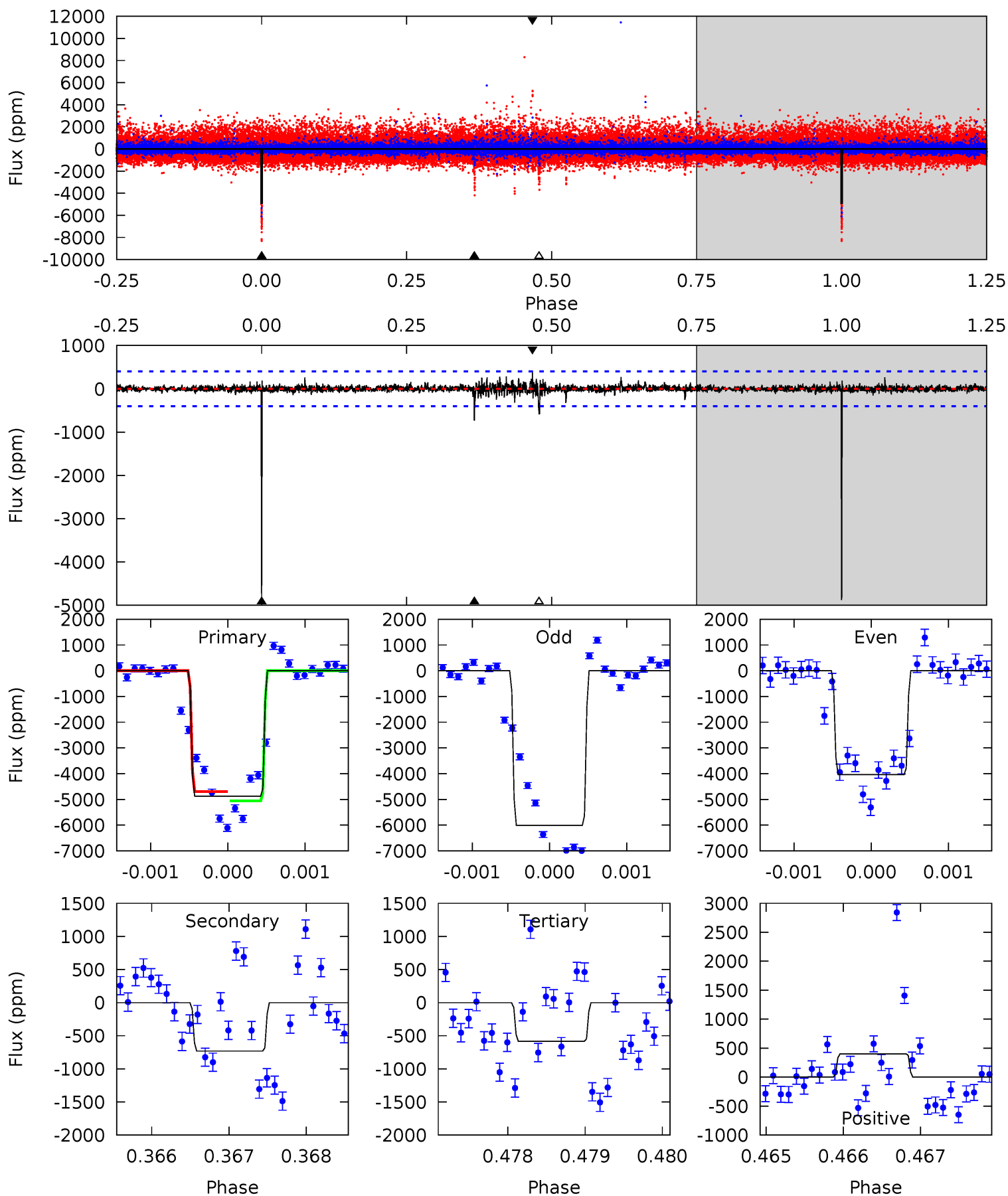
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.00	10.1	9.72	11.8	5.44	3.28	3.00	0.27	-1.77	0.41	-1.64	1.00	0.79	0.54	4.01



Alt Model-Shift Uniqueness Test

006763067-01, P = 660.576128 Days, E = 198.006098 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
66.2	9.92	7.94	5.45	5.45	3.29	0.74	58.2	60.7	1.98	4.47	12.0	0.89	0.08	2.48



Stellar Parameters For KIC 006763067

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3692^{+51}_{-66}	$4.818^{+0.036}_{-0.036}$	$-0.200^{+0.100}_{-0.100}$	$0.439^{+0.030}_{-0.036}$	$0.462^{+0.029}_{-0.038}$	$7.708^{+1.488}_{-1.036}$
	+1%/-2%	+1%/-1%	+50%/-50%	+7%/-8%	+6%/-8%	+19%/-13%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006763067-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1375 ± 136	$2.36^{+0.31}_{-0.30}$	141^{+3}_{-3}	3365^{+155}_{-137}	180126^{+58478}_{-43003}
Alt.	-731 ± 74	$3.25^{+0.34}_{-0.33}$	141^{+3}_{-3}	2804^{+92}_{-86}	49987^{+13148}_{-10012}

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

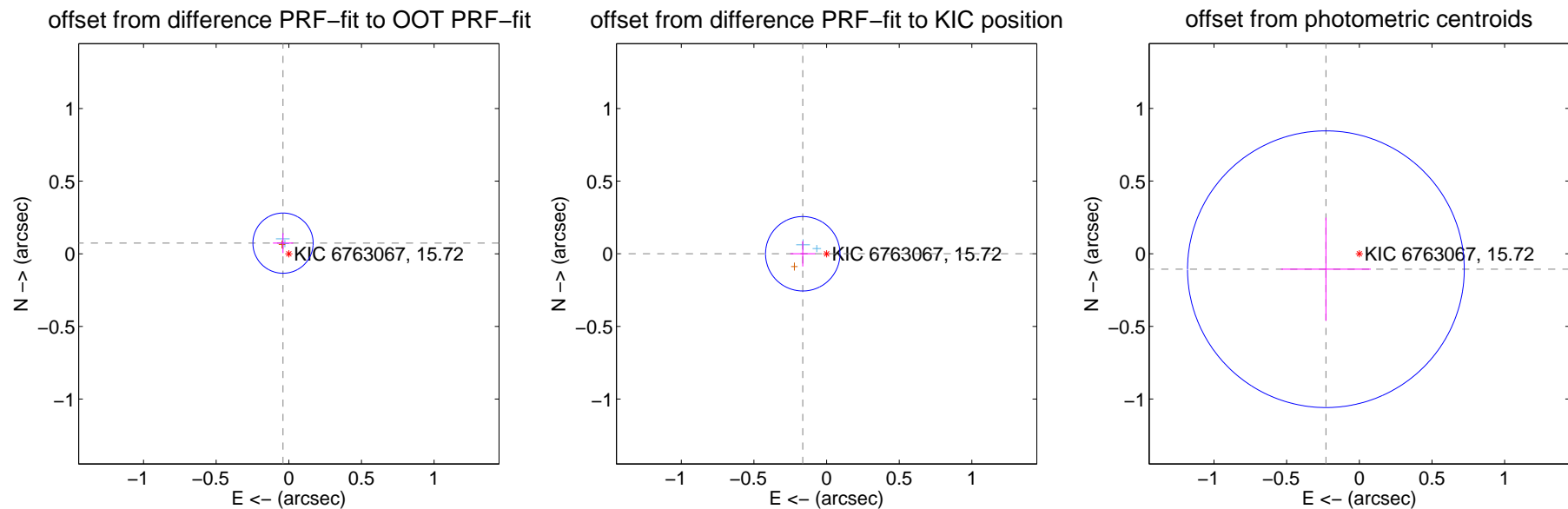
DV Centroid Data

Supplemental centroid analysis for 006763067-01. Kepler magnitude: 15.72. Transit SNR 8.16

There are 2 quarters with good PRF difference image offsets

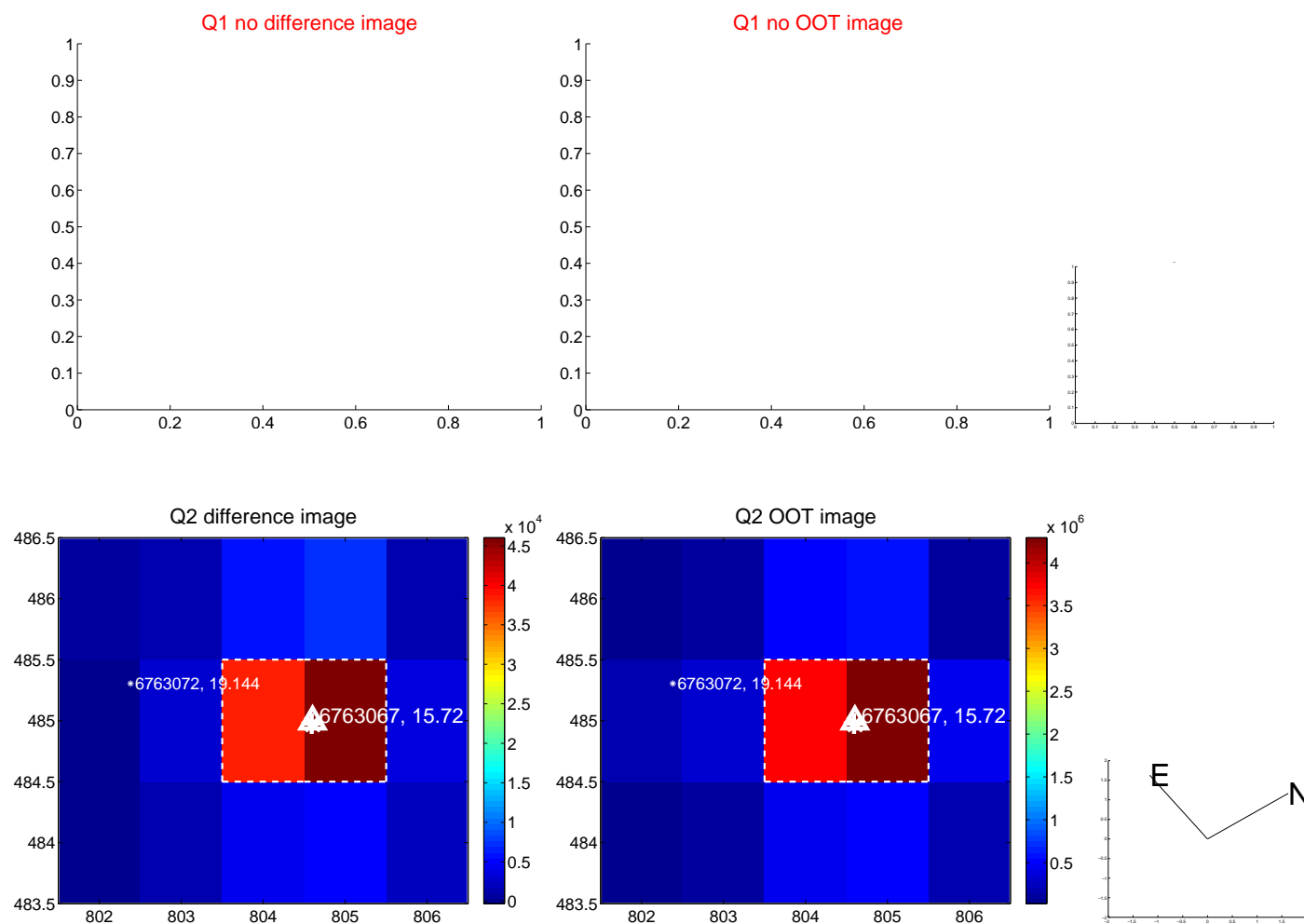
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.083 ± 0.069	1.21	0.040 ± 0.070	0.073 ± 0.069
PRF-fit source offset from KIC position	0.164 ± 0.085	1.92	0.164 ± 0.085	0.000 ± 0.088
photometric centroid source offset	0.25 ± 0.32	0.80	0.23 ± 0.31	-0.11 ± 0.36



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.

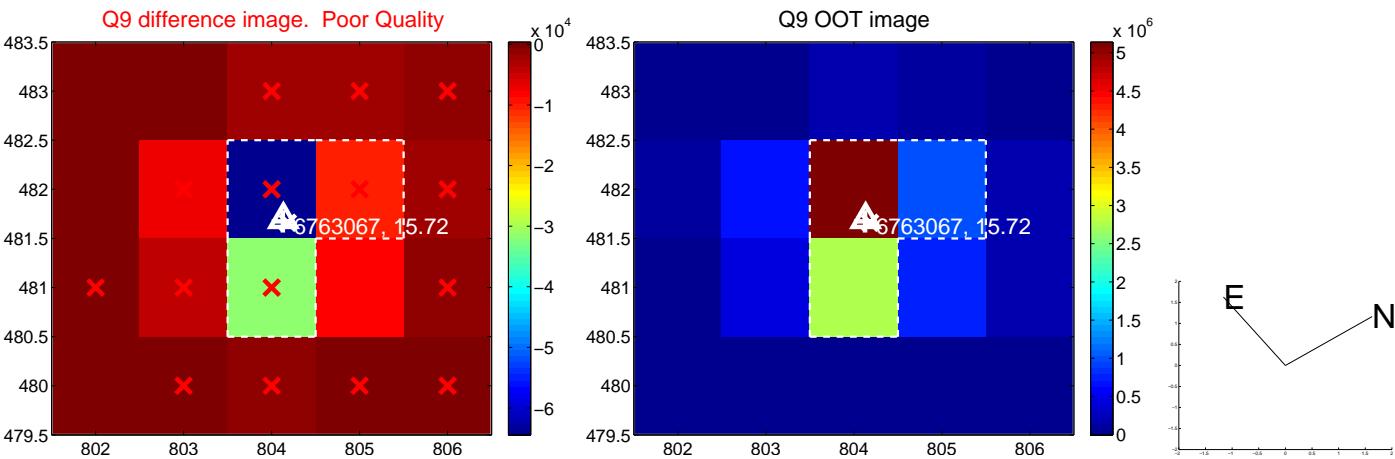
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



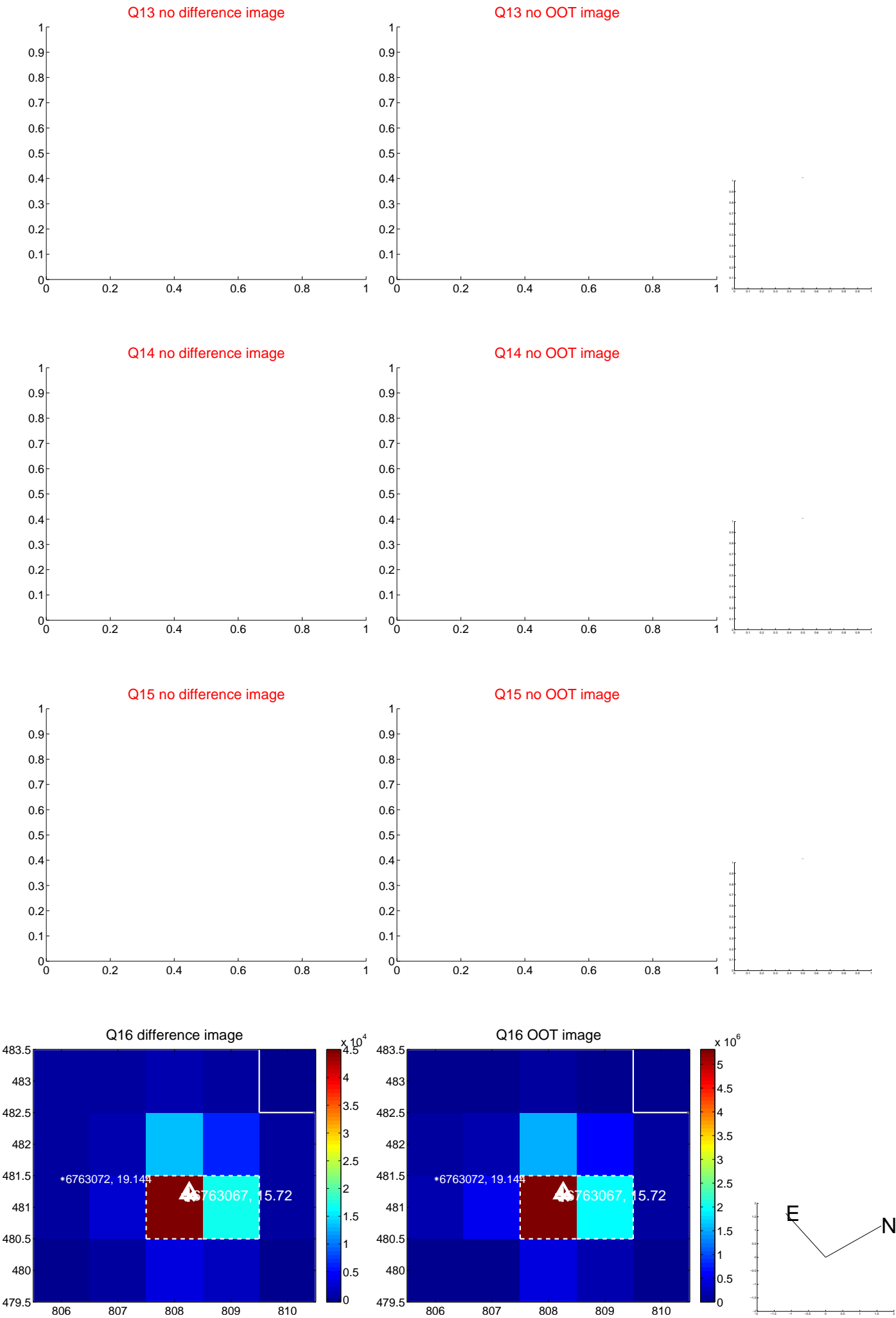
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



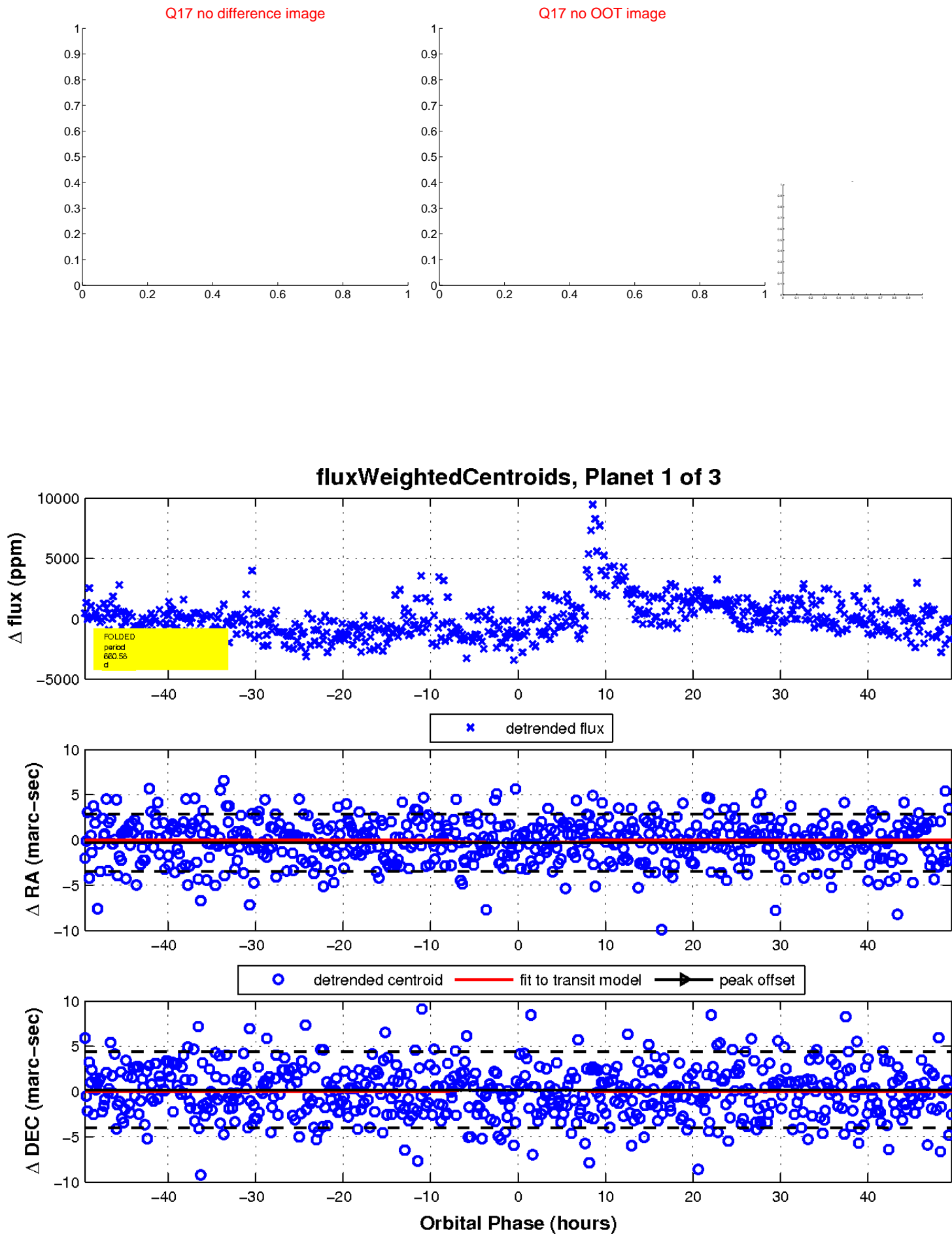
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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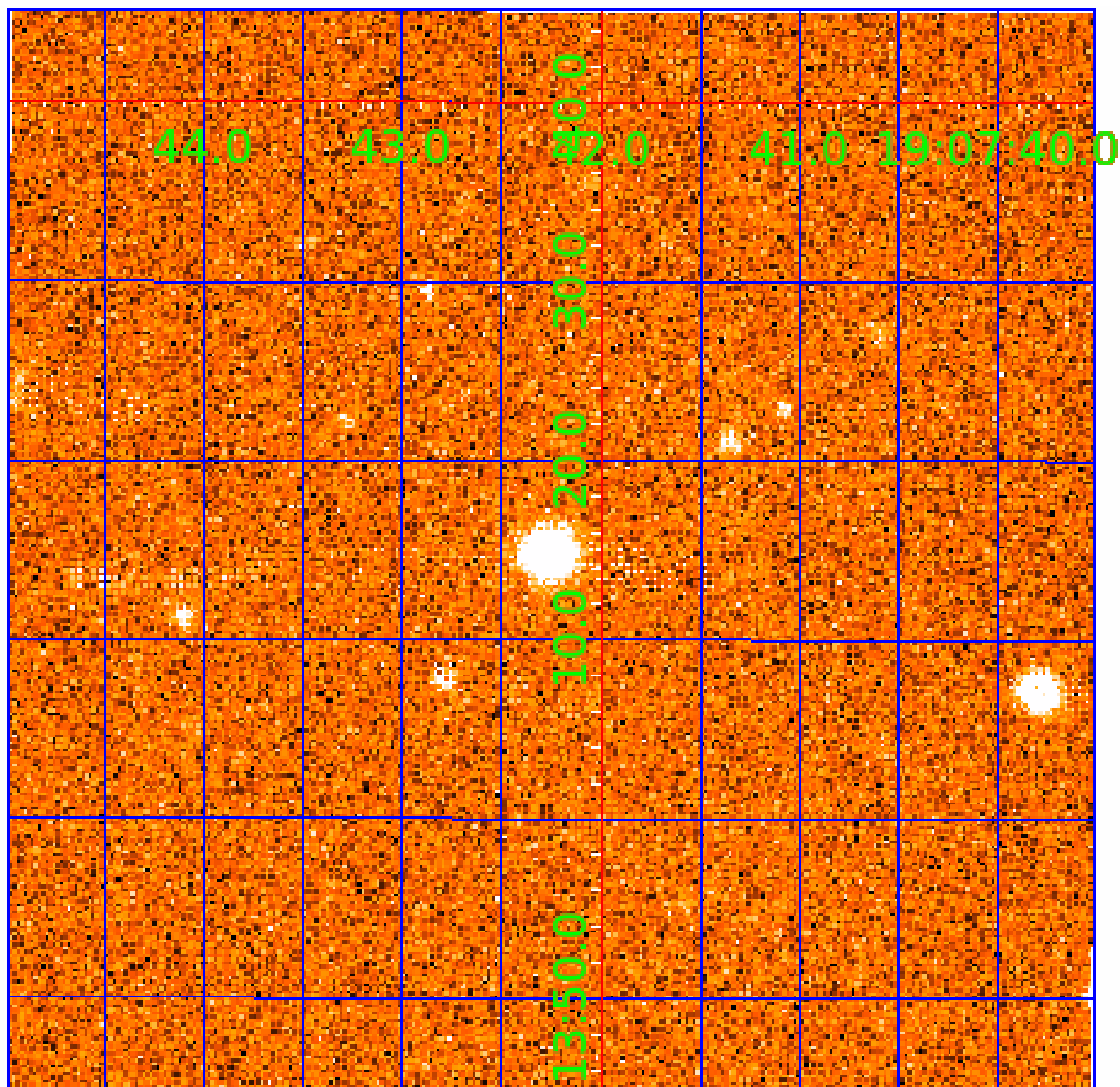


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006763067

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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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006763067-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006763067-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006763067-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—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.

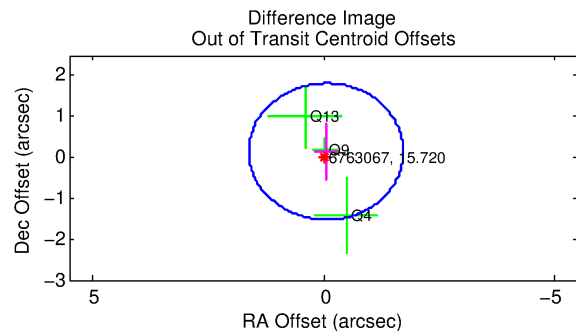
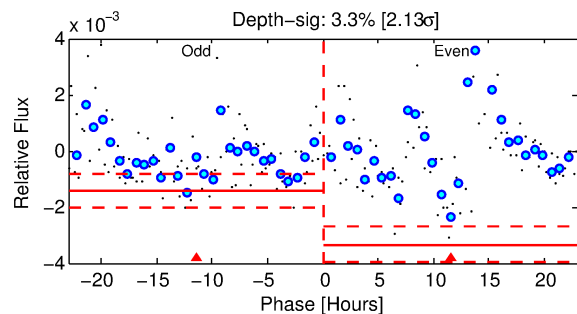
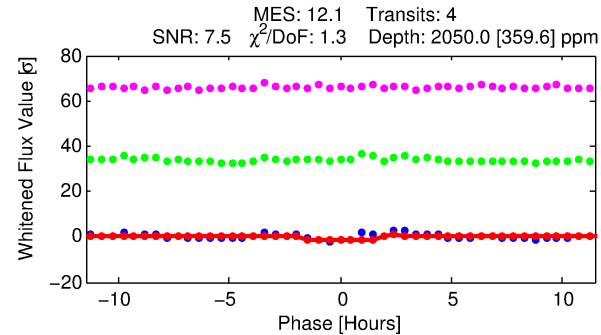
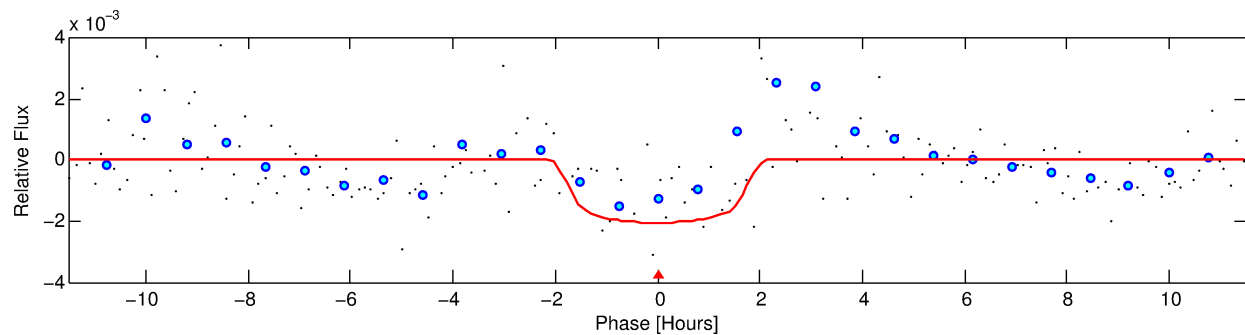
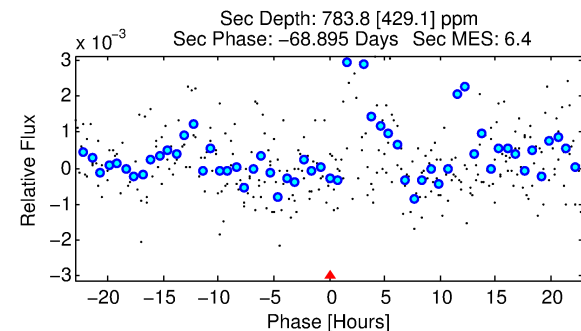
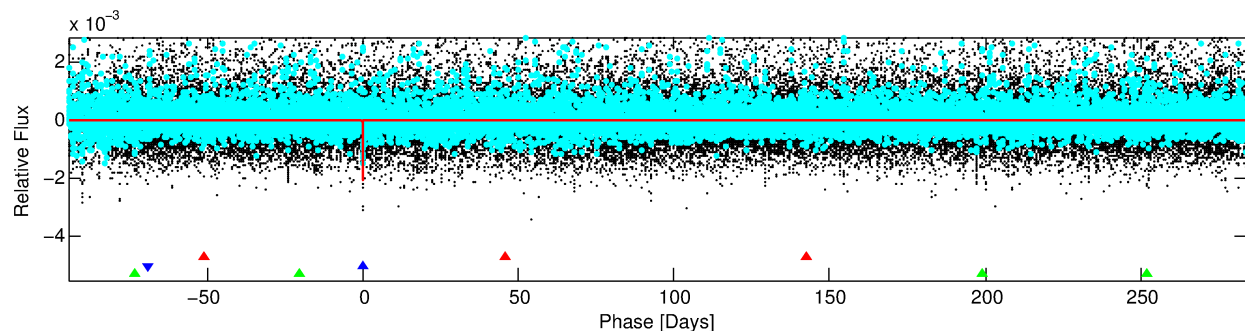
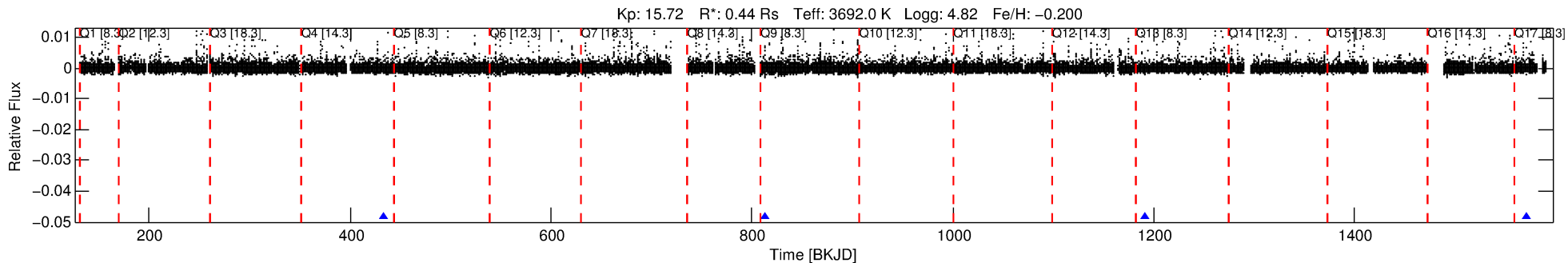
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006763067-02

No Significant Match Found

DV One-Page Summary

KIC: 6763067 Candidate: 2 of 3 Period: 378.772 d



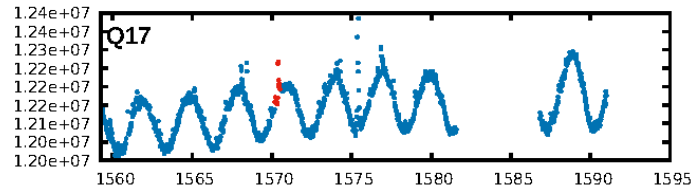
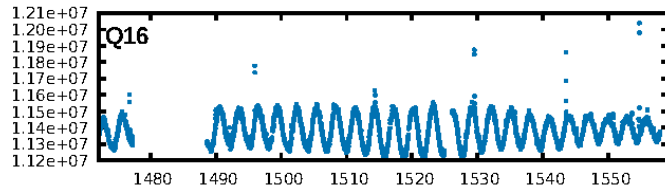
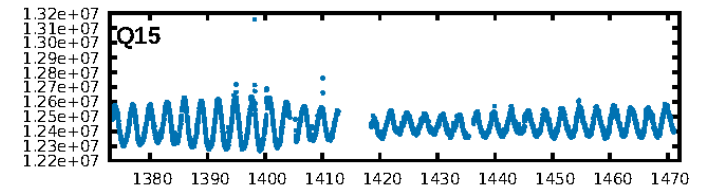
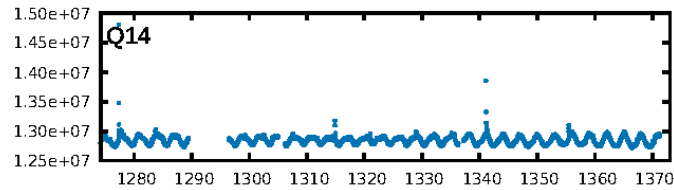
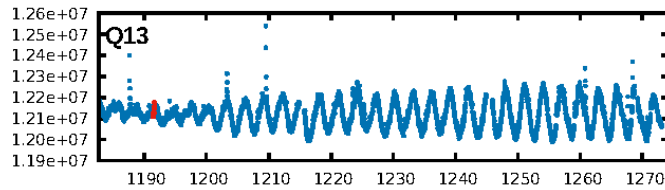
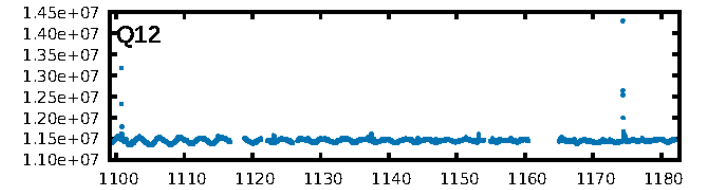
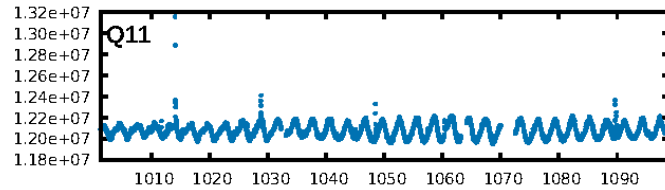
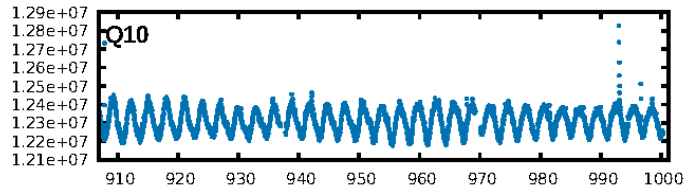
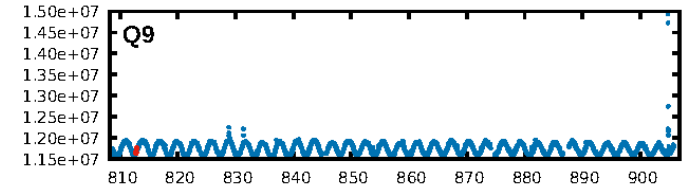
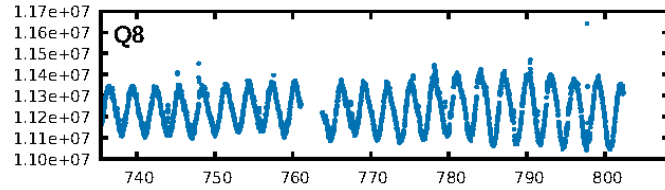
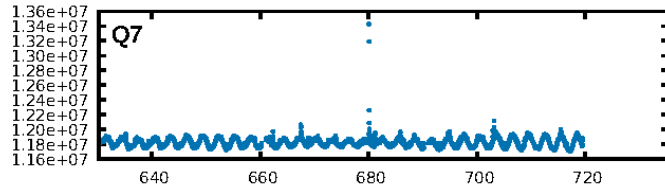
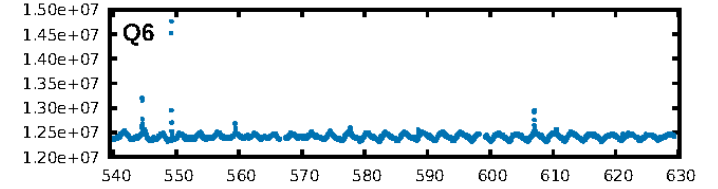
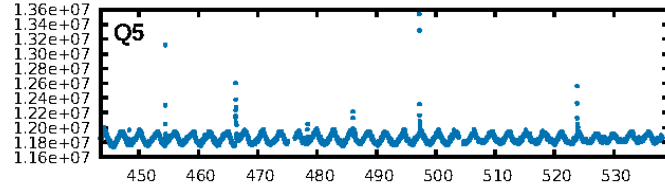
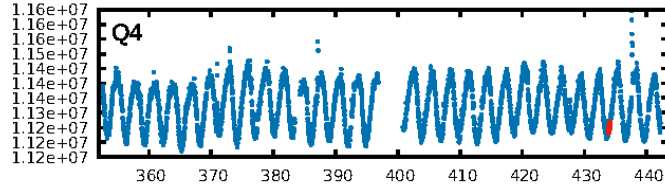
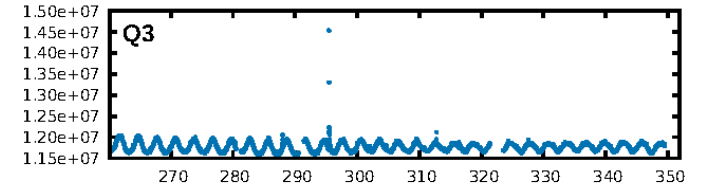
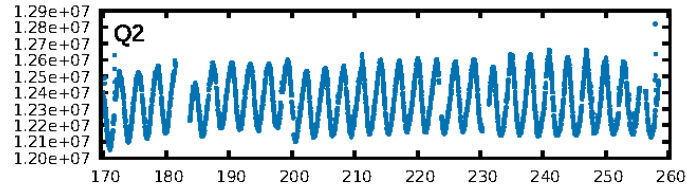
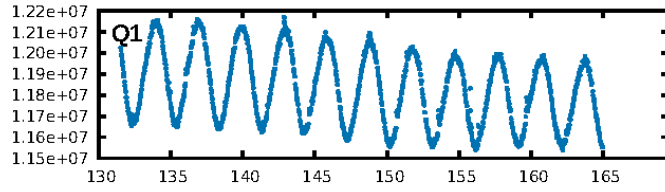
DV Fit Results:

Period = 378.77248 [0.00357] d
Epoch = 434.0177 [0.0074] BKJD
Rp/R* = 0.0429 [0.0330]
a/R* = 663.77 [2335.98]
b = 0.56 [4.34]
Seff = 0.05 [0.01]
Teq = 121 [3] K
Rp = 2.05 [1.59] Re
a = 0.7924 [0.0485] AU
Ag = 64118.16 [104809.27] [0.61σ]
Teffp = 2983 [1219] K [2.35σ]

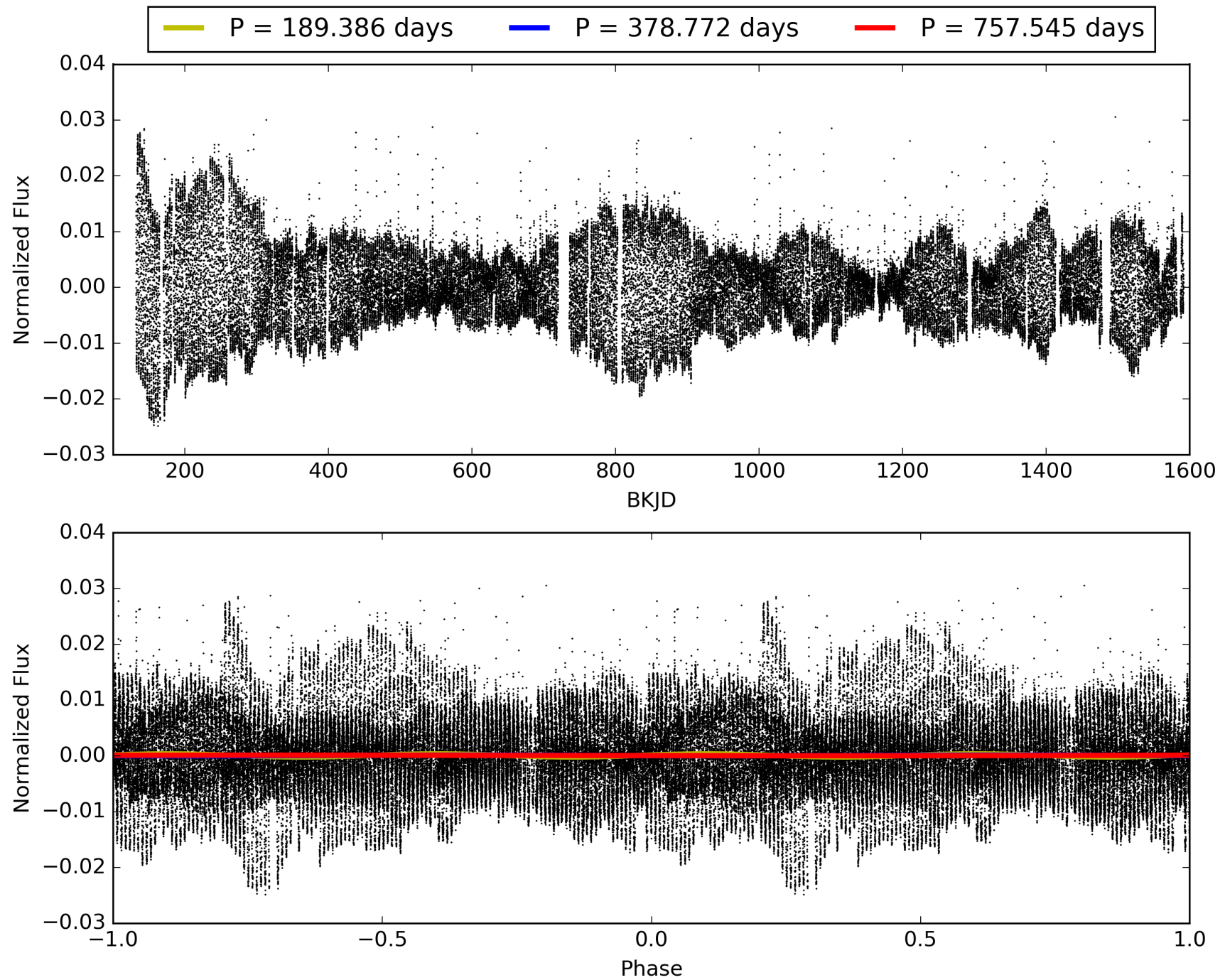
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [100.79σ]
ModelChiSquare2-sig: 6.6%
ModelChiSquareGof-sig: 37.0%
Bootstrap-pfa: 8.13e-12
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.2326
Centroid-sig: 42.5%
Centroid-so: 0.496 arcsec [0.63σ]
OotOffset-rm: 0.154 arcsec [0.28σ]
KicOffset-rm: 0.128 arcsec [0.36σ]
OotOffset-st: 0/0/1/2 [3]
KicOffset-st: 0/0/1/2 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [4/4]

TCE 006763067-02, PDC Light Curves

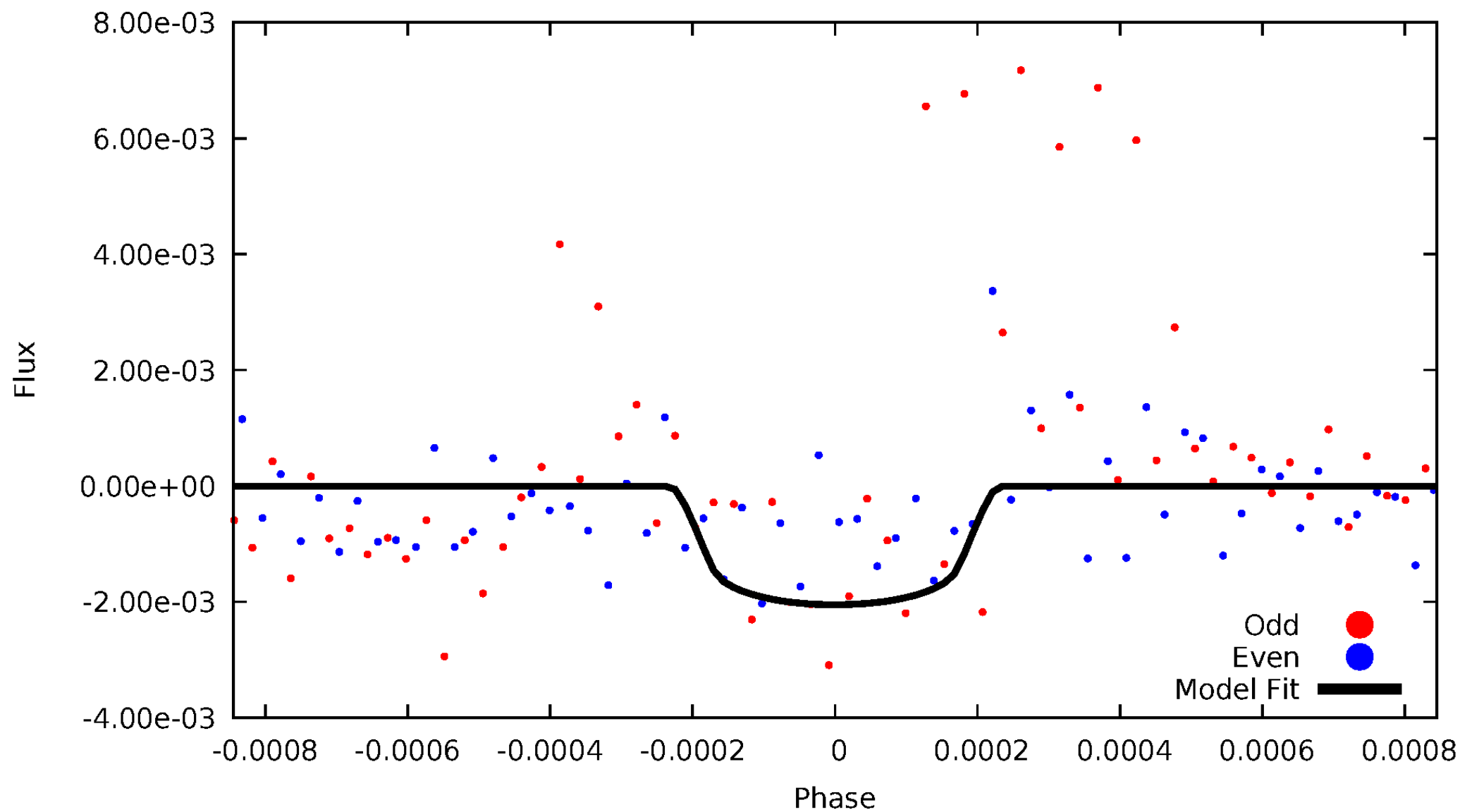


TCE 006763067-02



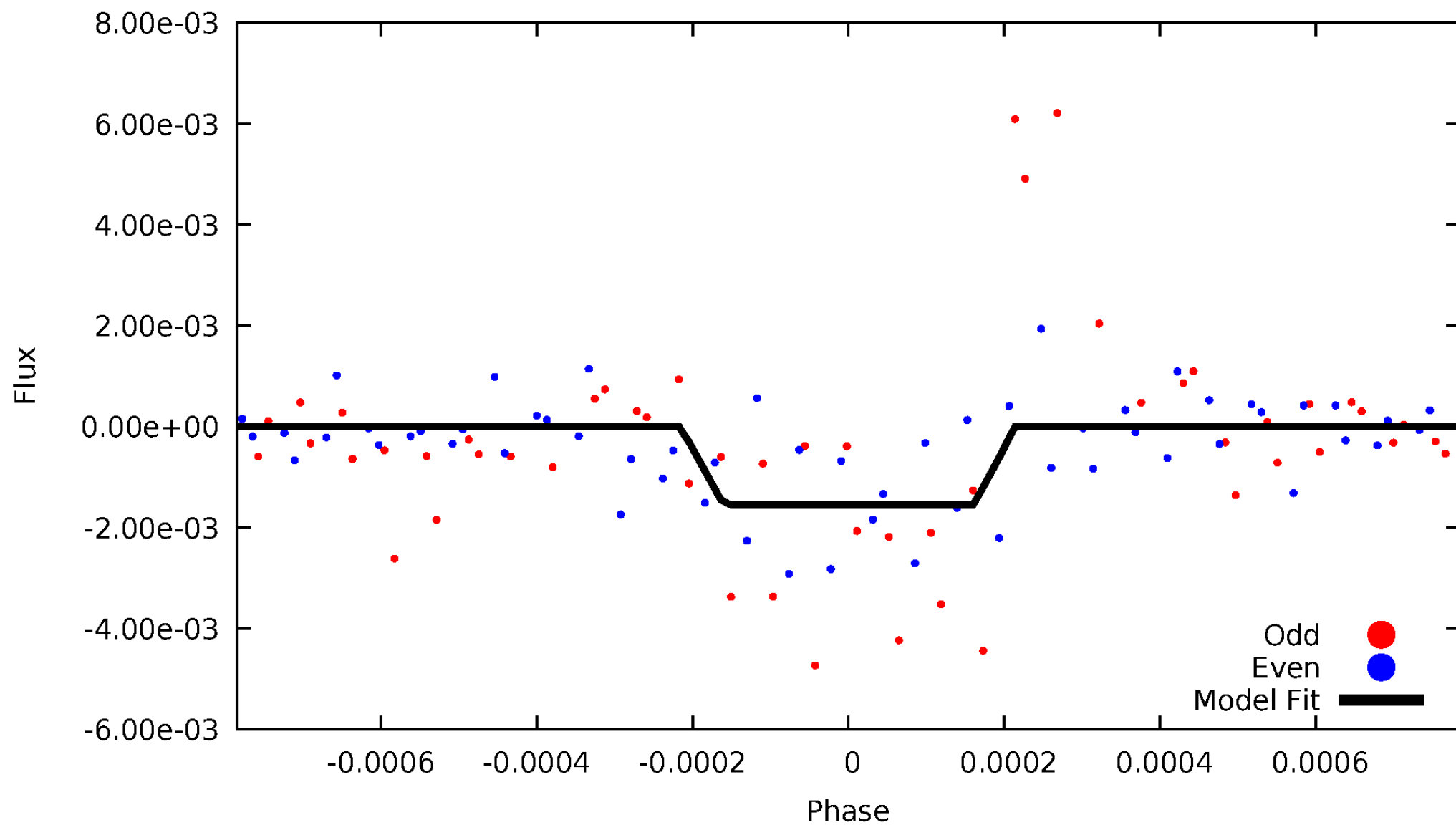
DV Odd/Even

TCE 006763067-02



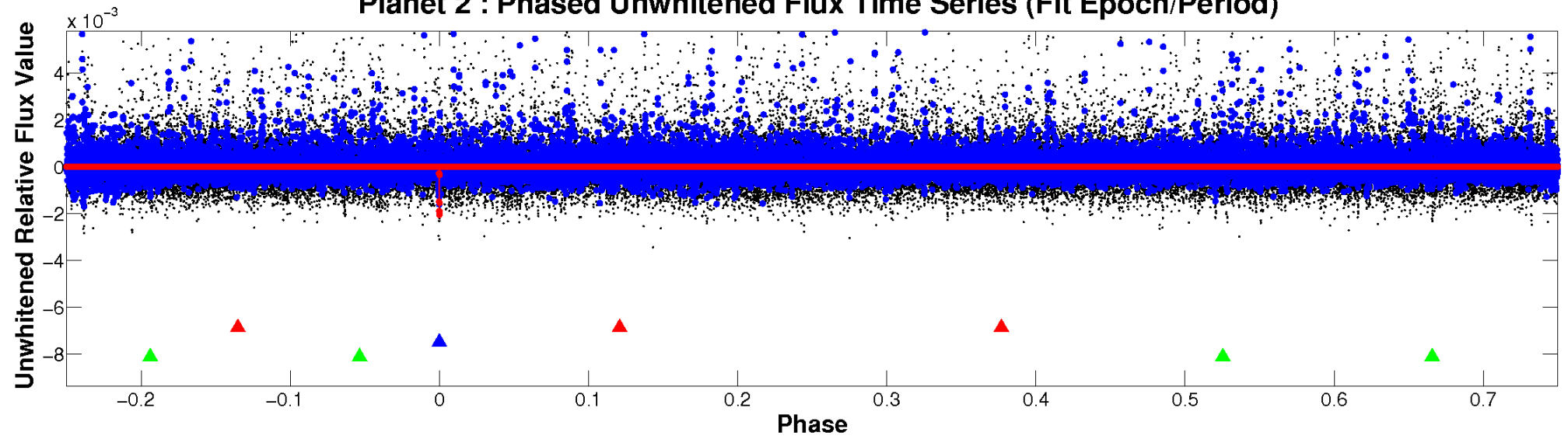
ALT Odd/Even

TCE 006763067-02

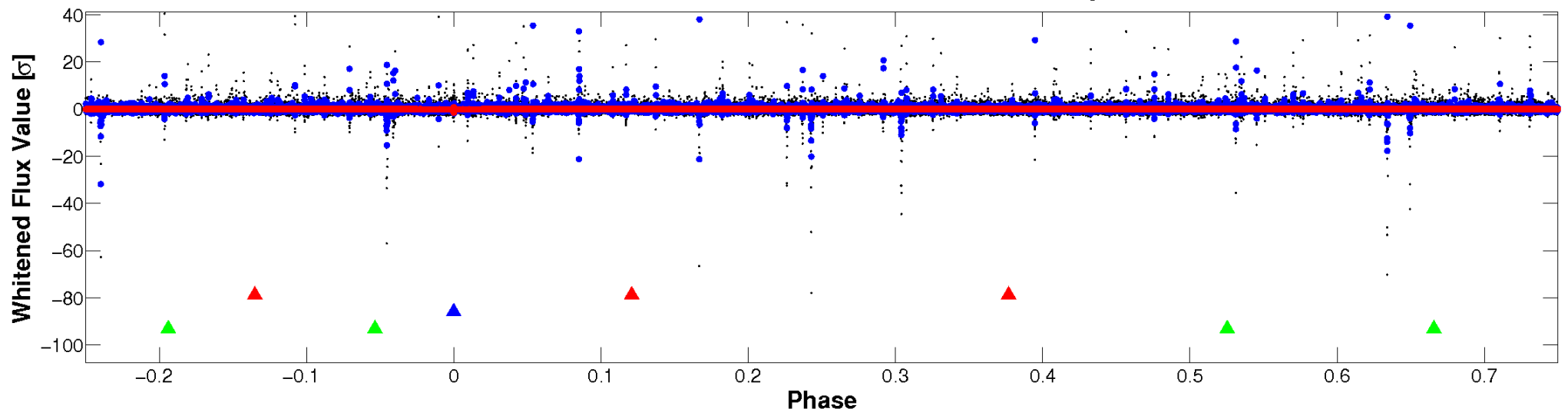


Non-Whitened Vs. Whitened Light Curve

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

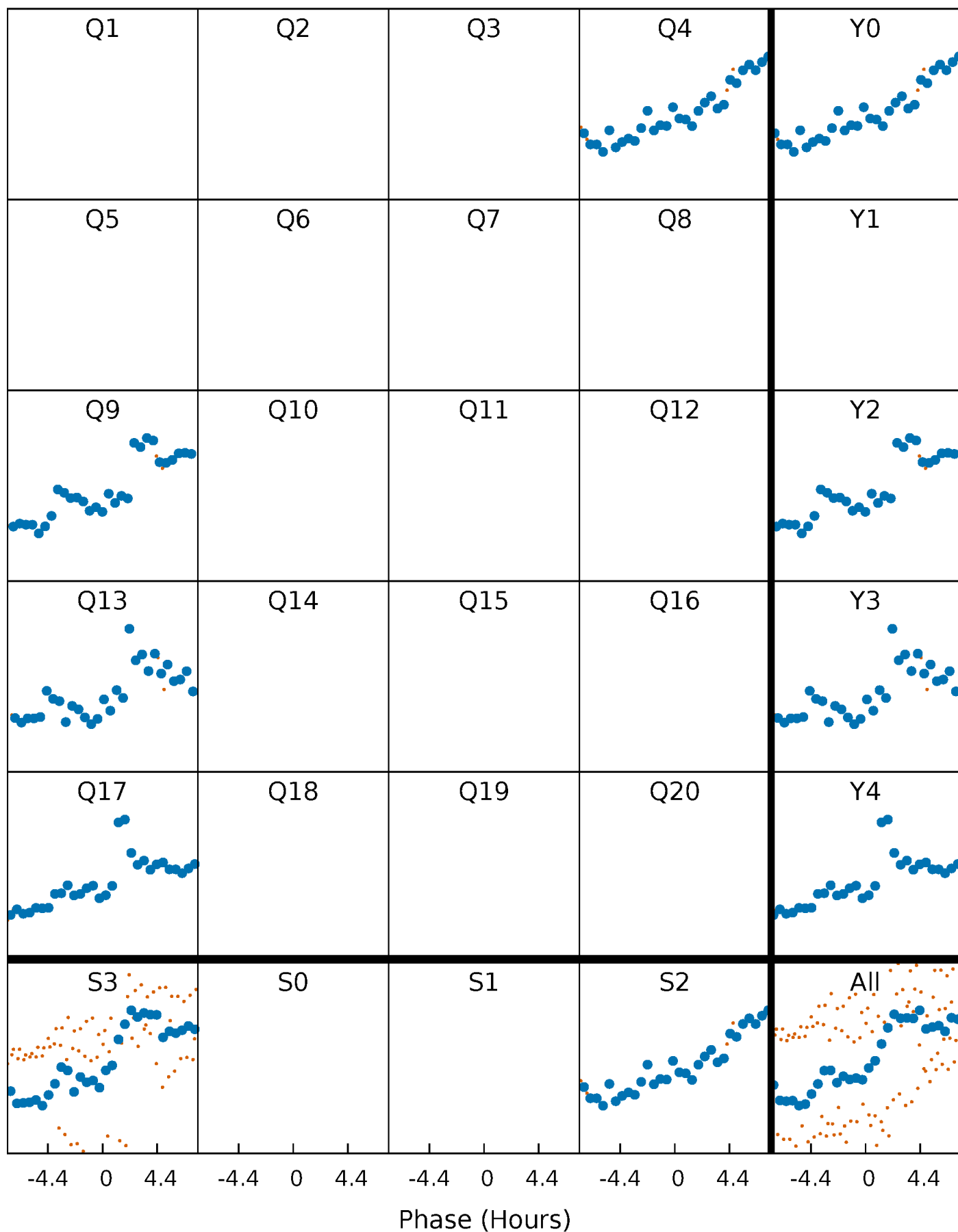


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



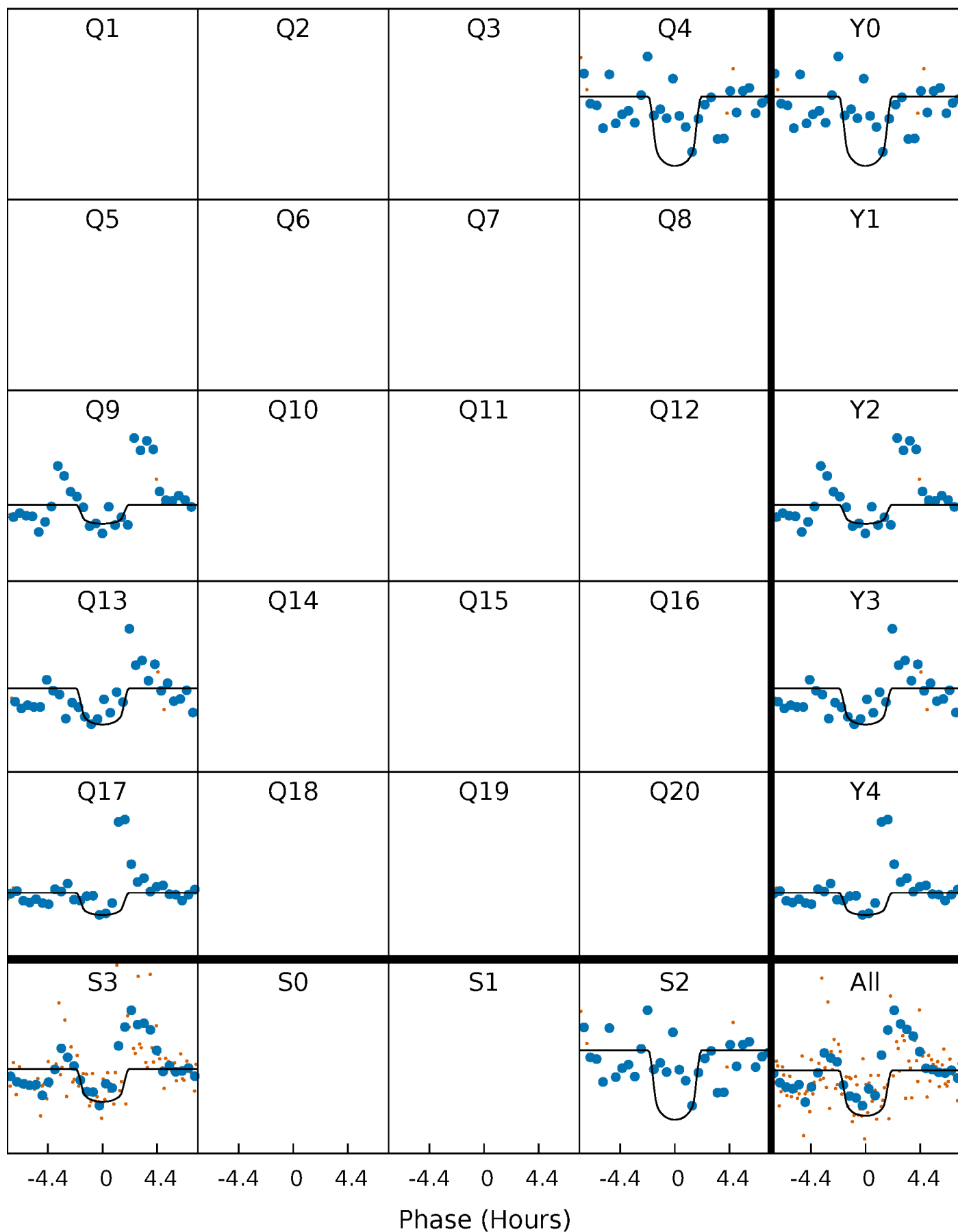
PDC Quarter-Phased Transit Curves

TCE 006763067-02 $P=378.772476$ Days $T_0=434.017657$ (BKJD)



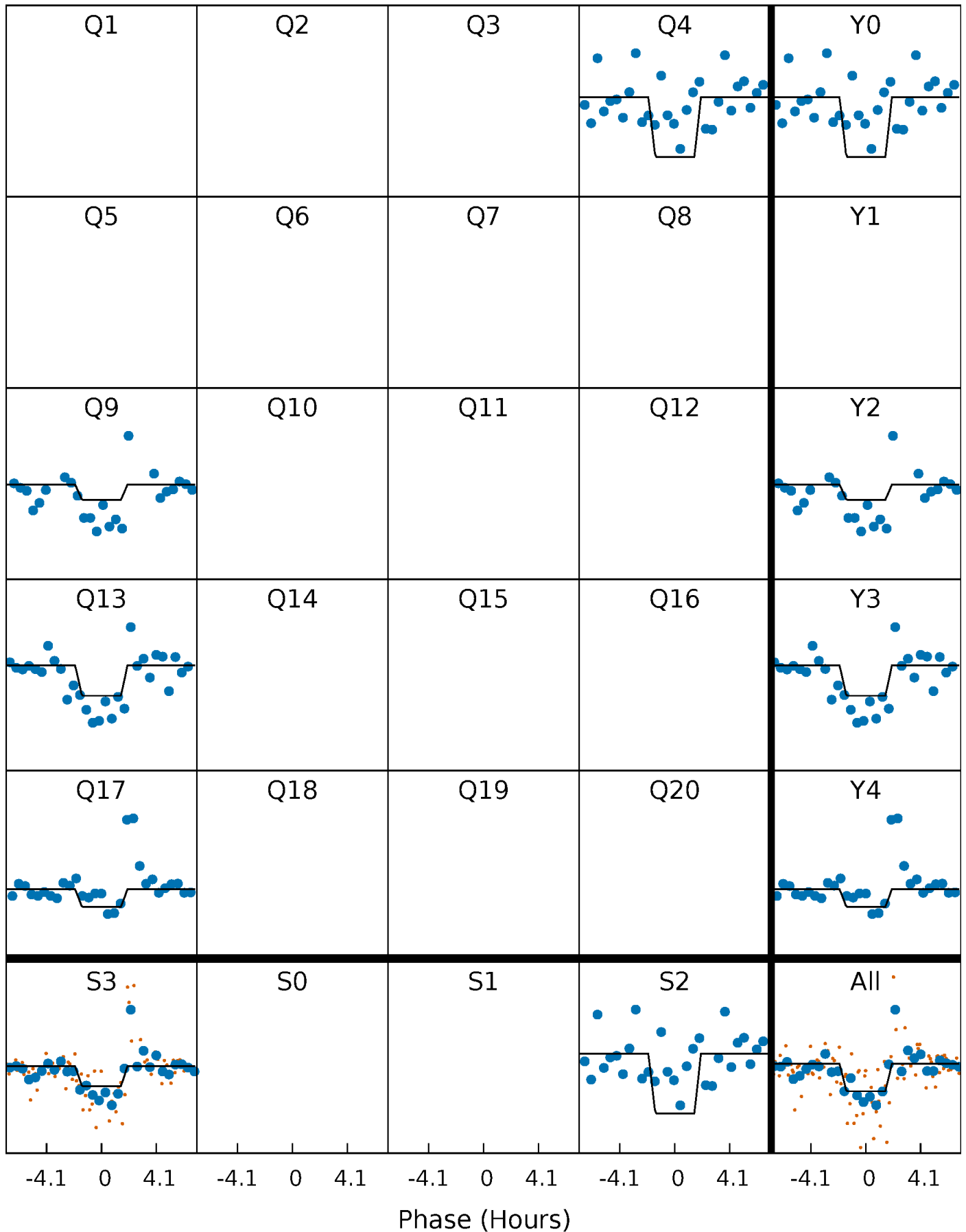
DV Quarter-Phased Transit Curves

TCE 006763067-02 $P=378.772476$ Days $T_0=434.017657$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

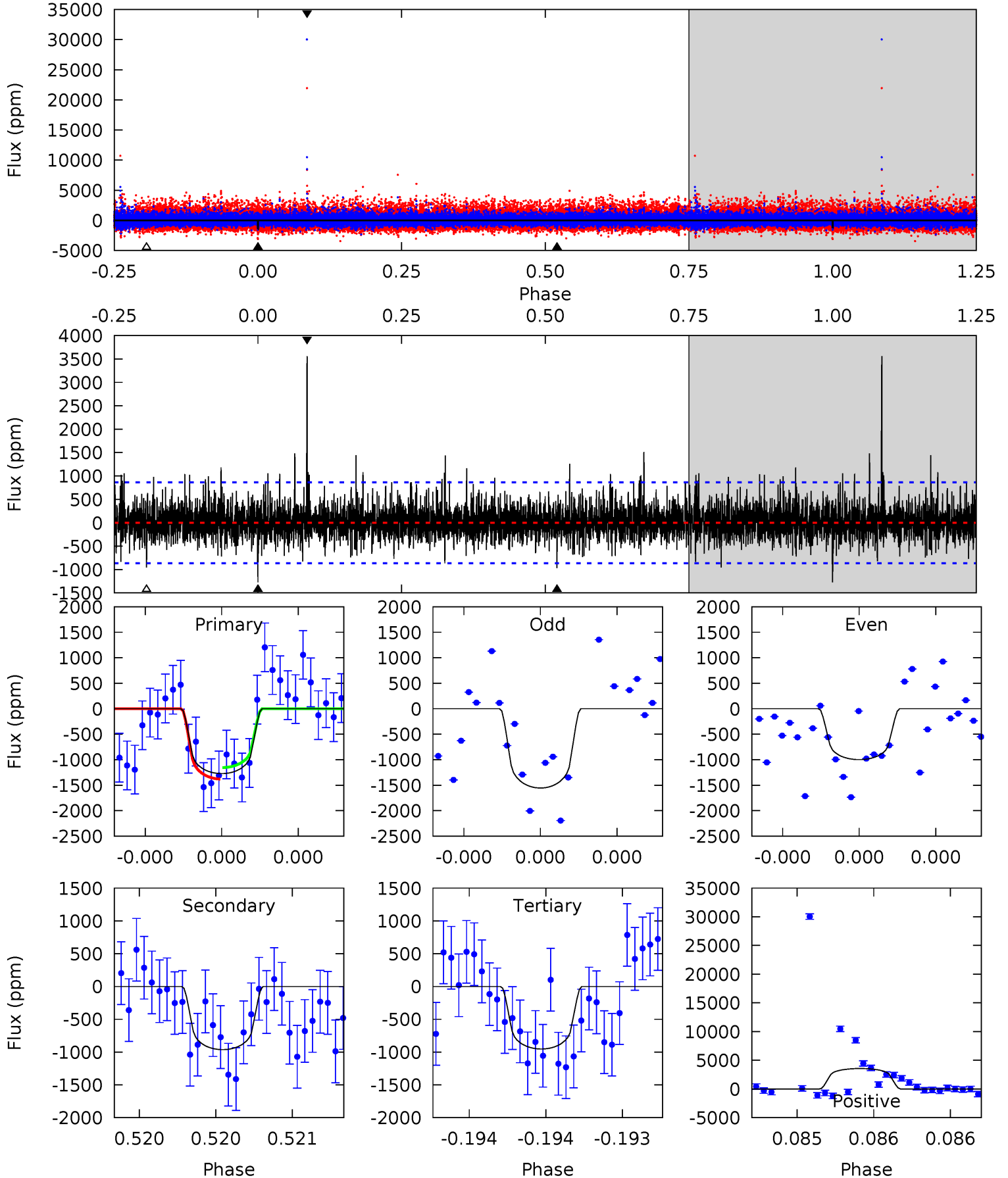
TCE 006763067-02 P=378.749657 Days $T_0=434.053351$ (BKJD)



DV Model-Shift Uniqueness Test

006763067-02, $P = 378.772476$ Days, $E = 55.245181$ Days

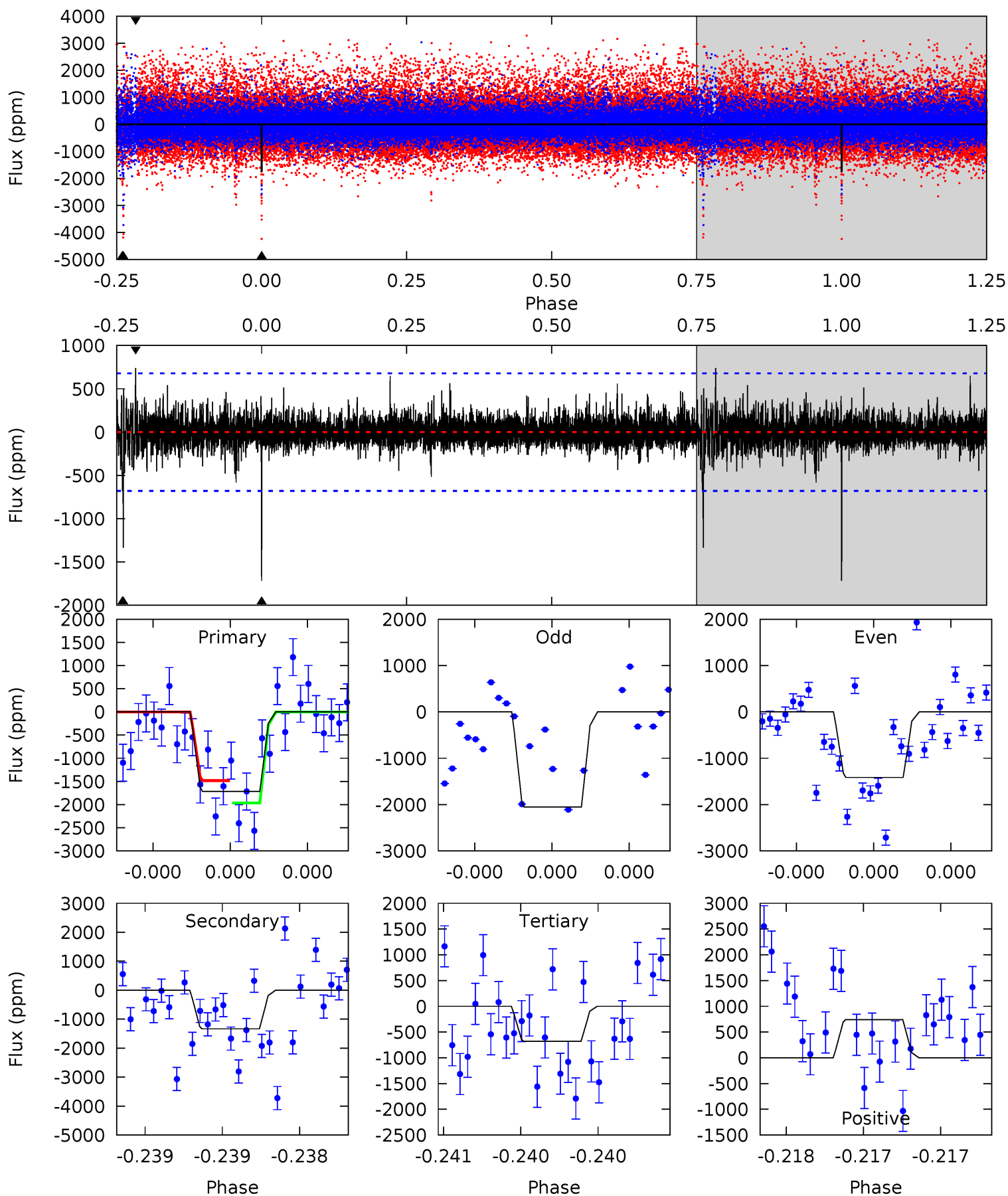
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.22	6.22	6.16	23.0	5.59	3.51	1.78	2.06	-14.8	0.06	-16.8	1.52	0.81	0.74	0.74



Alt Model-Shift Uniqueness Test

006763067-02, P = 378.749657 Days, E = 55.303694 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.2	11.0	5.60	6.09	5.60	3.53	0.97	8.57	8.08	5.41	4.93	2.57	1.08	0.30	2.00



Stellar Parameters For KIC 006763067

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3692^{+51}_{-66}	$4.818^{+0.036}_{-0.036}$	$-0.200^{+0.100}_{-0.100}$	$0.439^{+0.030}_{-0.036}$	$0.462^{+0.029}_{-0.038}$	$7.708^{+1.488}_{-1.036}$
	+1%/-2%	+1%/-1%	+50%/-50%	+7%/-8%	+6%/-8%	+19%/-13%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006763067-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-963 ± 155	$2.16^{+1.49}_{-1.23}$	169^{+4}_{-4}	3279^{+1061}_{-468}	$69991^{+312520}_{-45434}$
Alt.	-1335 ± 121	$2.17^{+1.47}_{-1.28}$	170^{+4}_{-4}	3443^{+1241}_{-498}	$96458^{+456772}_{-62951}$

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 $A_{obs} \gg 1.0$

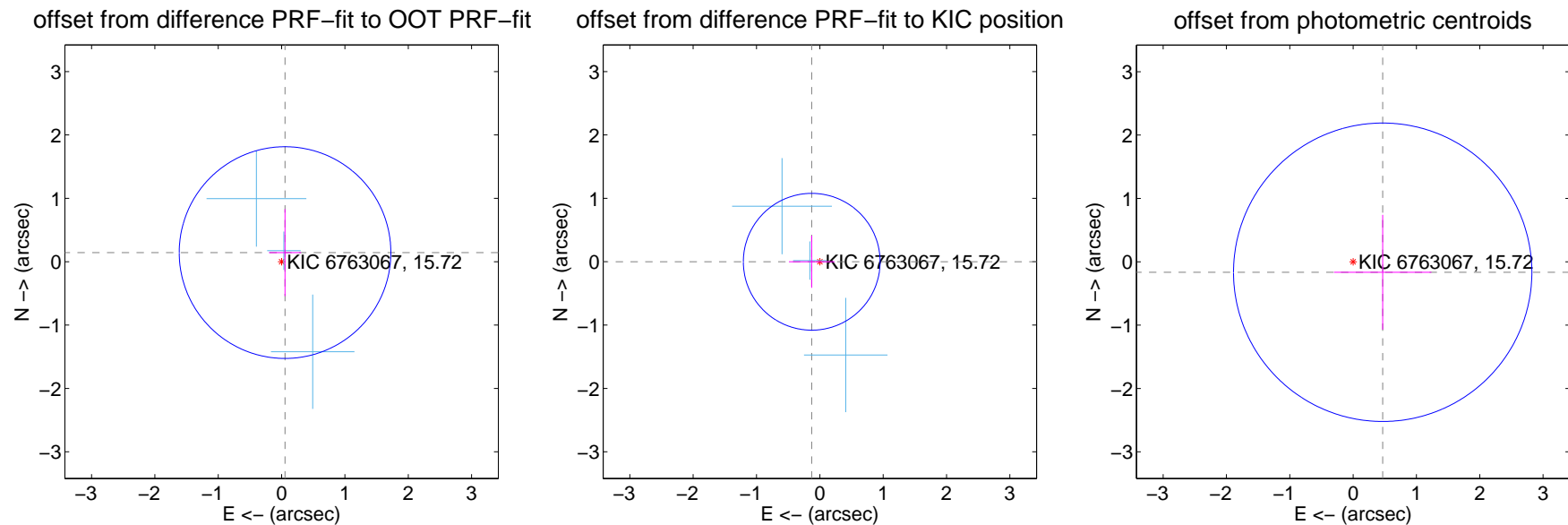
DV Centroid Data

Supplemental centroid analysis for 006763067-02. Kepler magnitude: 15.72. Transit SNR 7.53

There are 3 quarters with good PRF difference image offsets

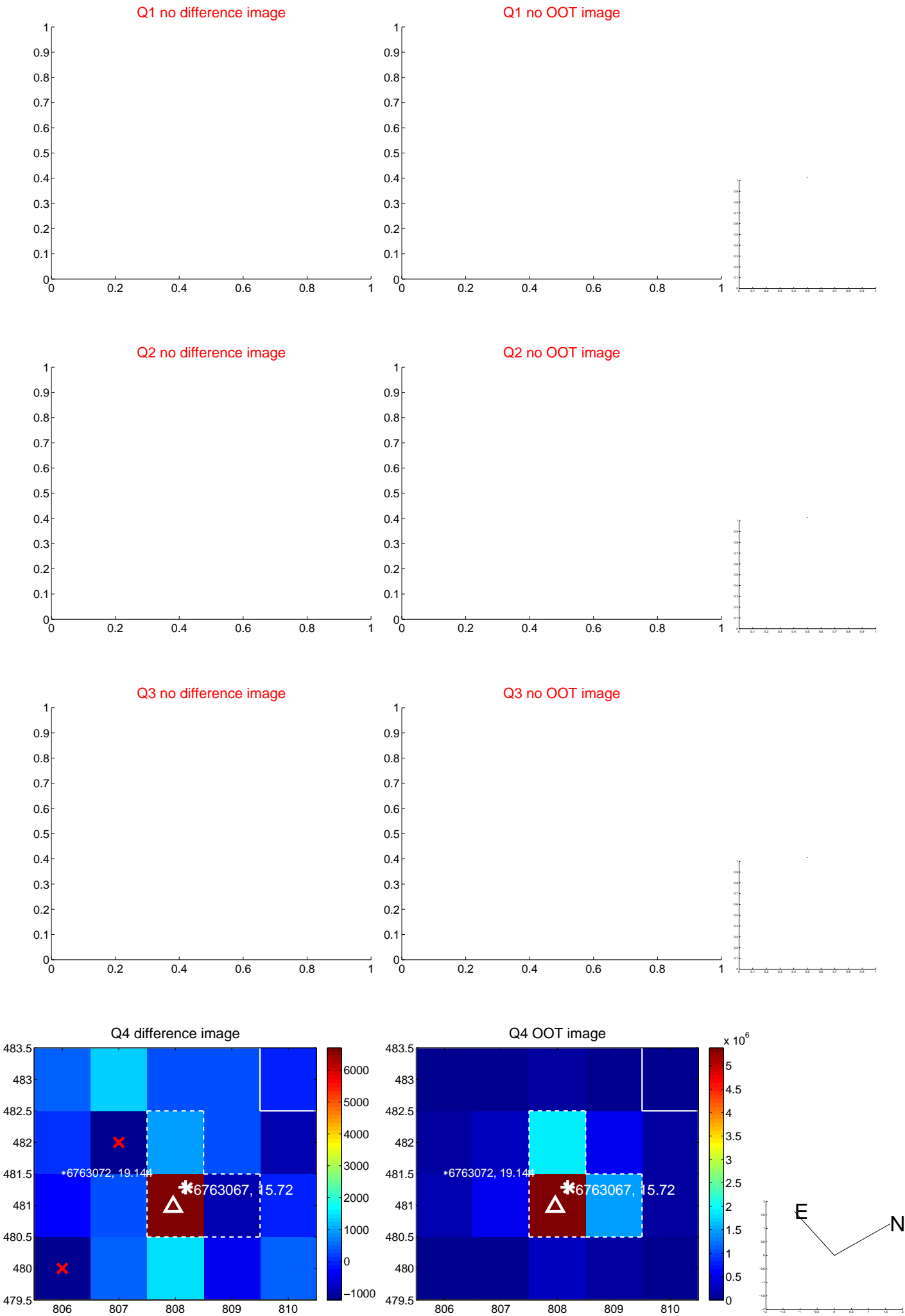
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.154 ± 0.557	0.28	-0.055 ± 0.253	0.144 ± 0.687
PRF-fit source offset from KIC position	0.128 ± 0.360	0.36	0.128 ± 0.360	-0.001 ± 0.411
photometric centroid source offset	0.50 ± 0.79	0.63	-0.47 ± 0.77	-0.17 ± 0.91



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.

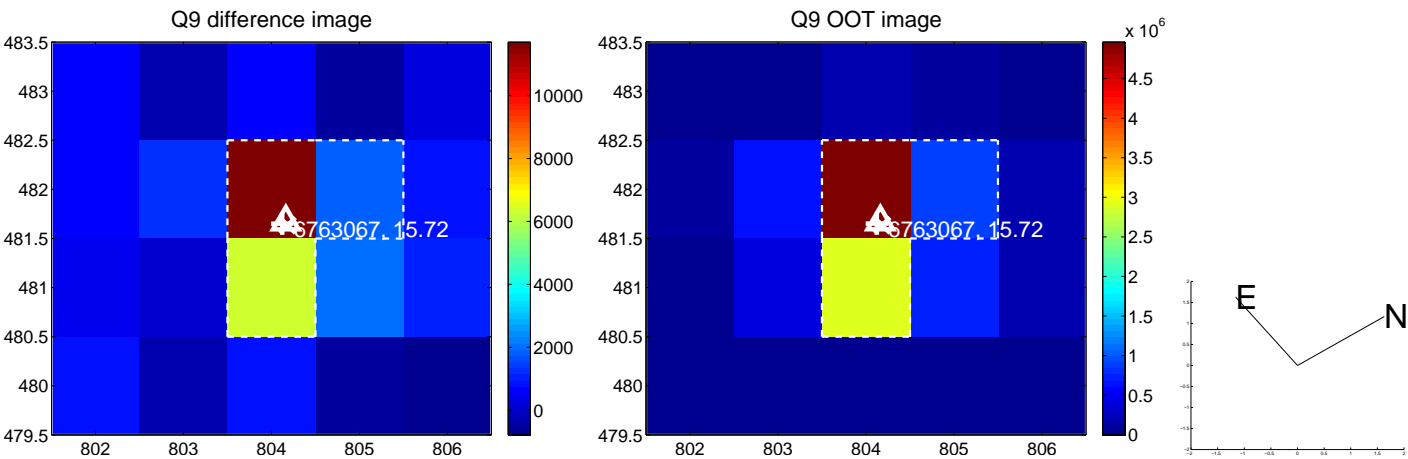
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



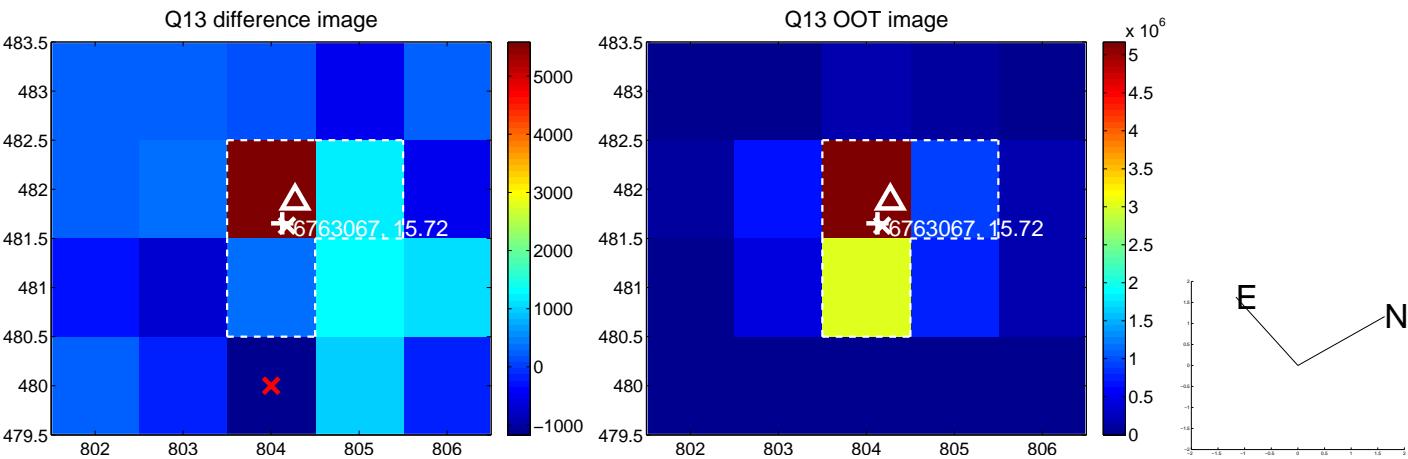
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



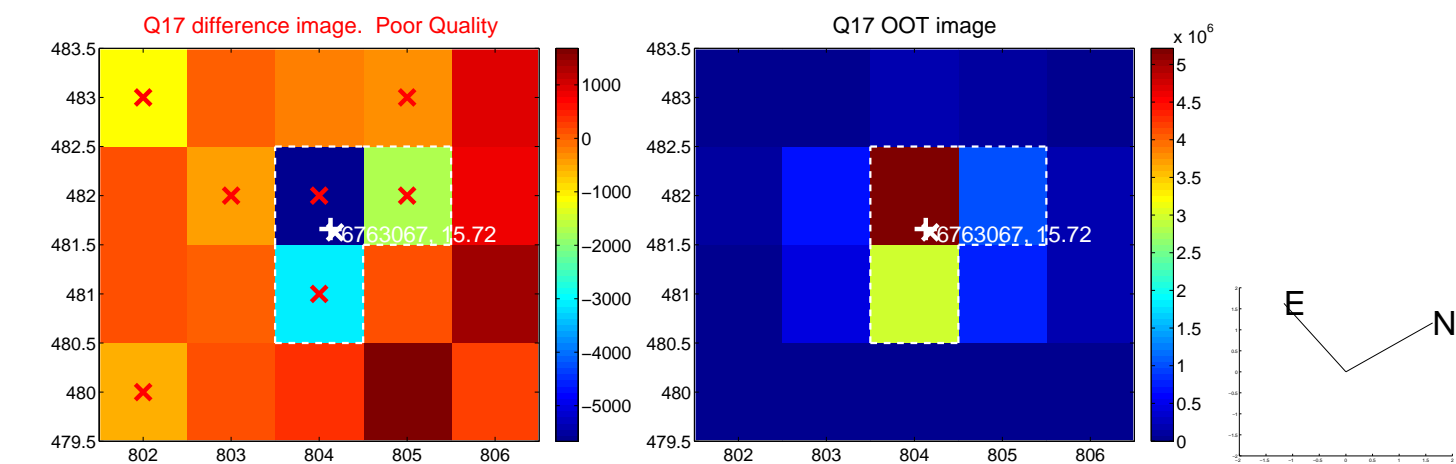
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



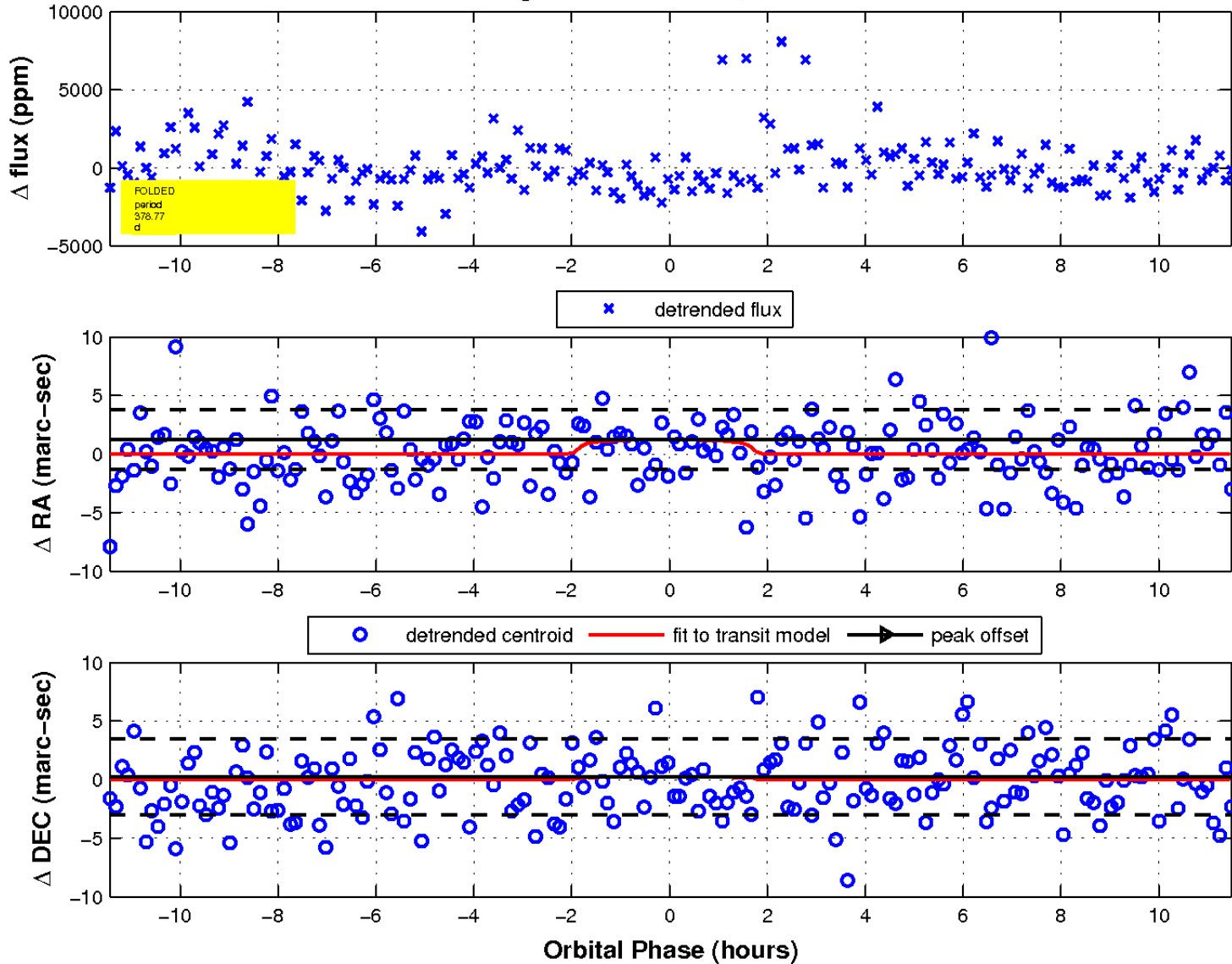
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

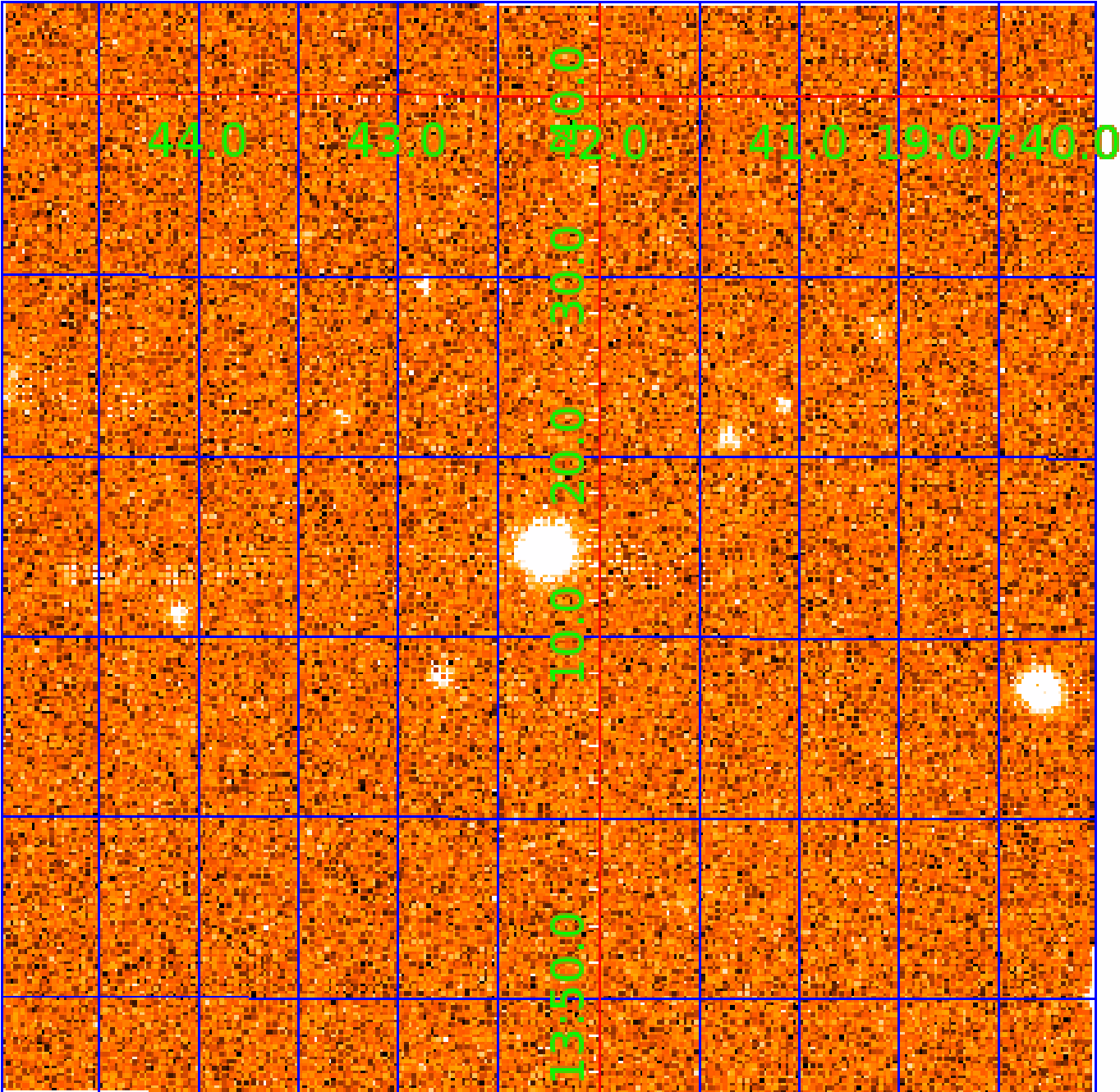


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 006763067

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})
006763067-01	OBS	No	660.583256	197.997659	2927.2	16.547	12.6	8.2	0.44	3692	2.36	0.02
006763067-02	OBS	No	378.772476	434.017657	2050.0	3.838	12.1	7.5	0.44	3692	2.06	0.05
006763067-03	OBS	No	431.943060	254.244413	2227.1	12.065	8.9	7.7	0.44	3692	2.15	0.04

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006763067-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006763067-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006763067-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—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.

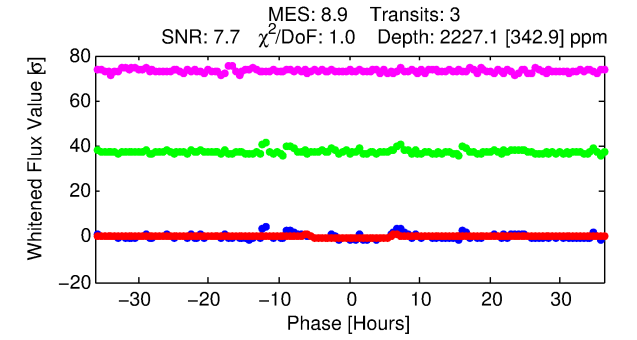
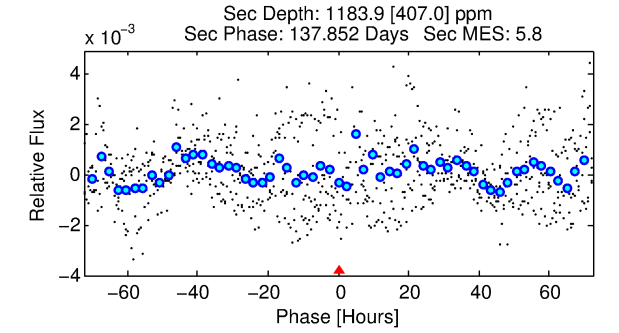
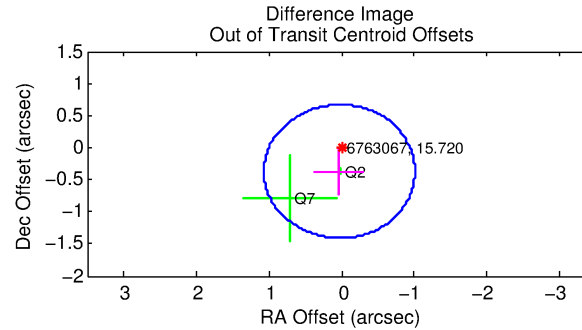
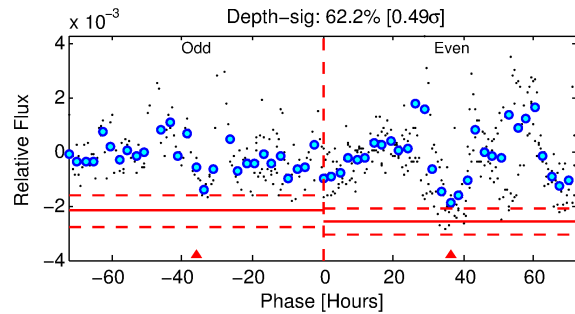
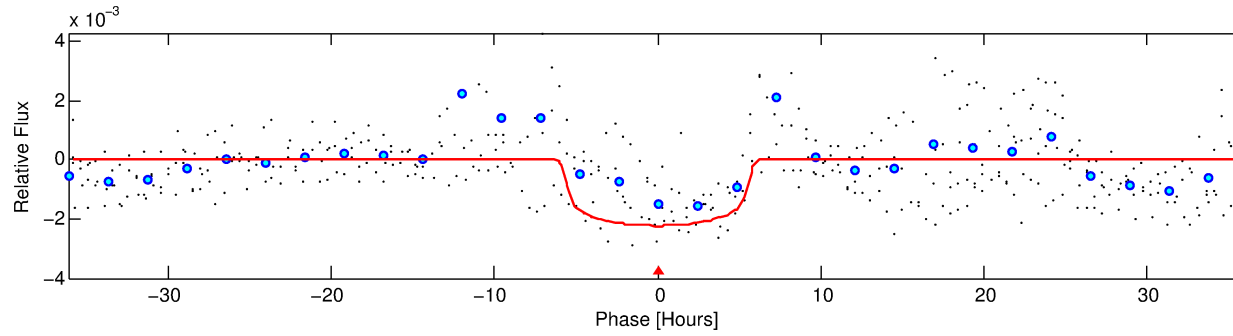
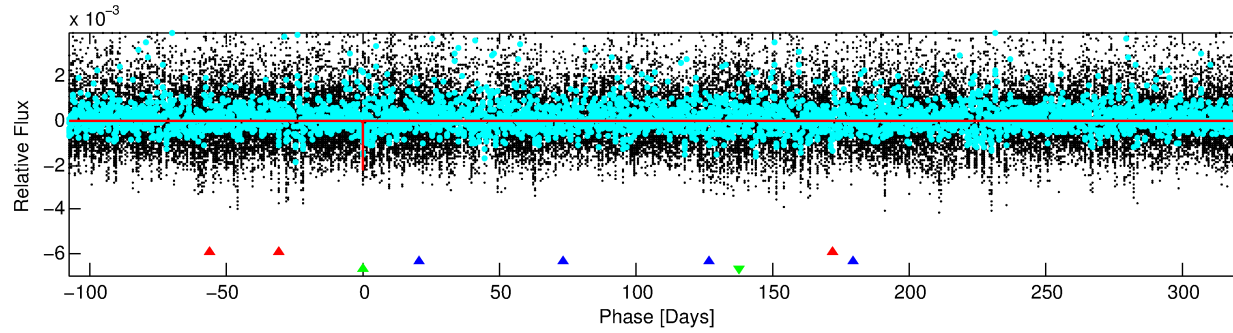
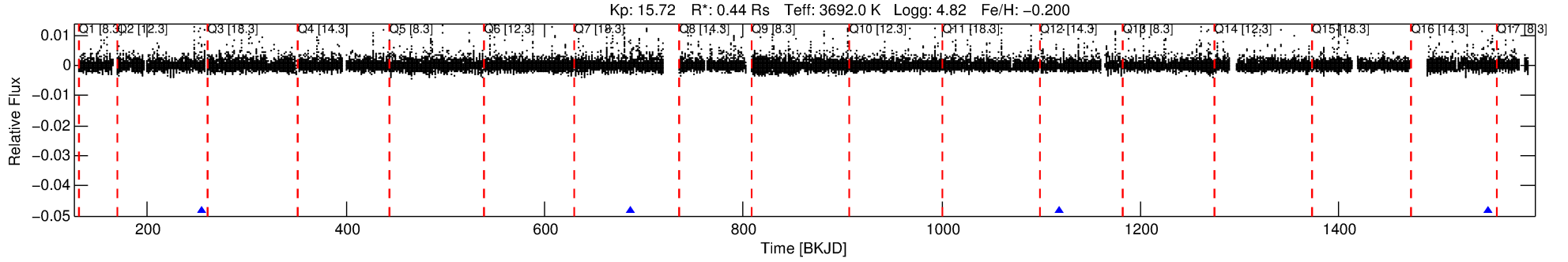
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006763067-03

No Significant Match Found

DV One-Page Summary

KIC: 6763067 Candidate: 3 of 3 Period: 431.943 d



DV Fit Results:

Period = 431.94306 [0.00522] d
Epoch = 254.2444 [0.0103] BKJD
Rp/R* = 0.0449 [0.0066]
a/R* = 236.56 [122.95]
b = 0.59 [0.58]
Seff = 0.04 [0.00]
Teq = 116 [3] K
Rp = 2.15 [0.36] Re
a = 0.8649 [0.0530] AU
Ag = 105312.75 [48241.33] [2.18 σ]
Teffp = 3232 [369] K [8.44 σ]

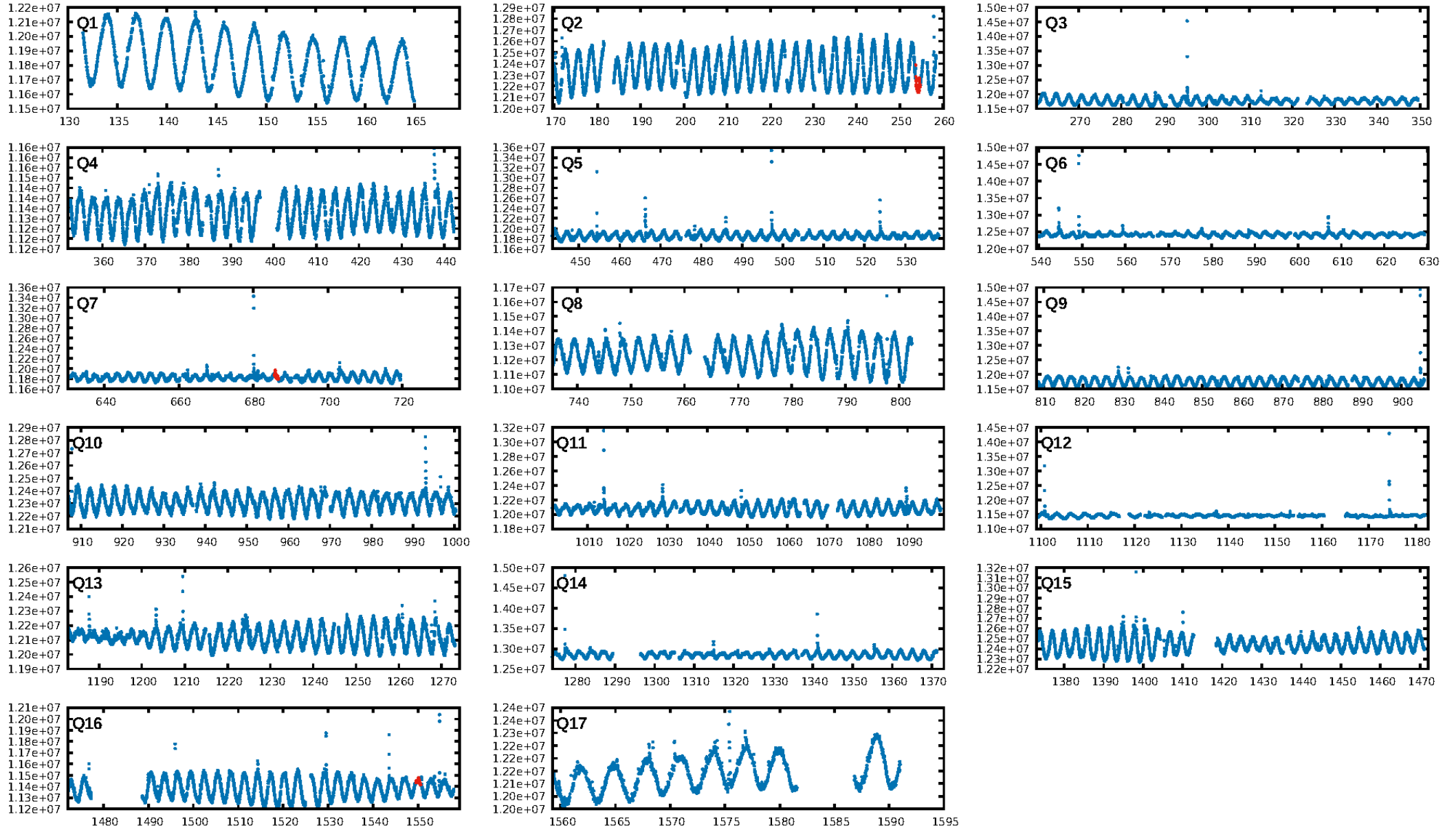
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [100.79 σ]
LongPeriod-sig: 100.0% [267.96 σ]
ModelChiSquare2-sig: 38.3%
ModelChiSquareGof-sig: 97.8%
Bootstrap-pfa: 3.24e-08
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.012
Centroid-sig: 87.9%
Centroid-so: 0.280 arcsec [0.56 σ]
OotOffset-rm: 0.372 arcsec [1.07 σ]
KicOffset-rm: 0.395 arcsec [1.14 σ]
OotOffset-st: 1/1/0/0 [2]
KicOffset-st: 1/1/0/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

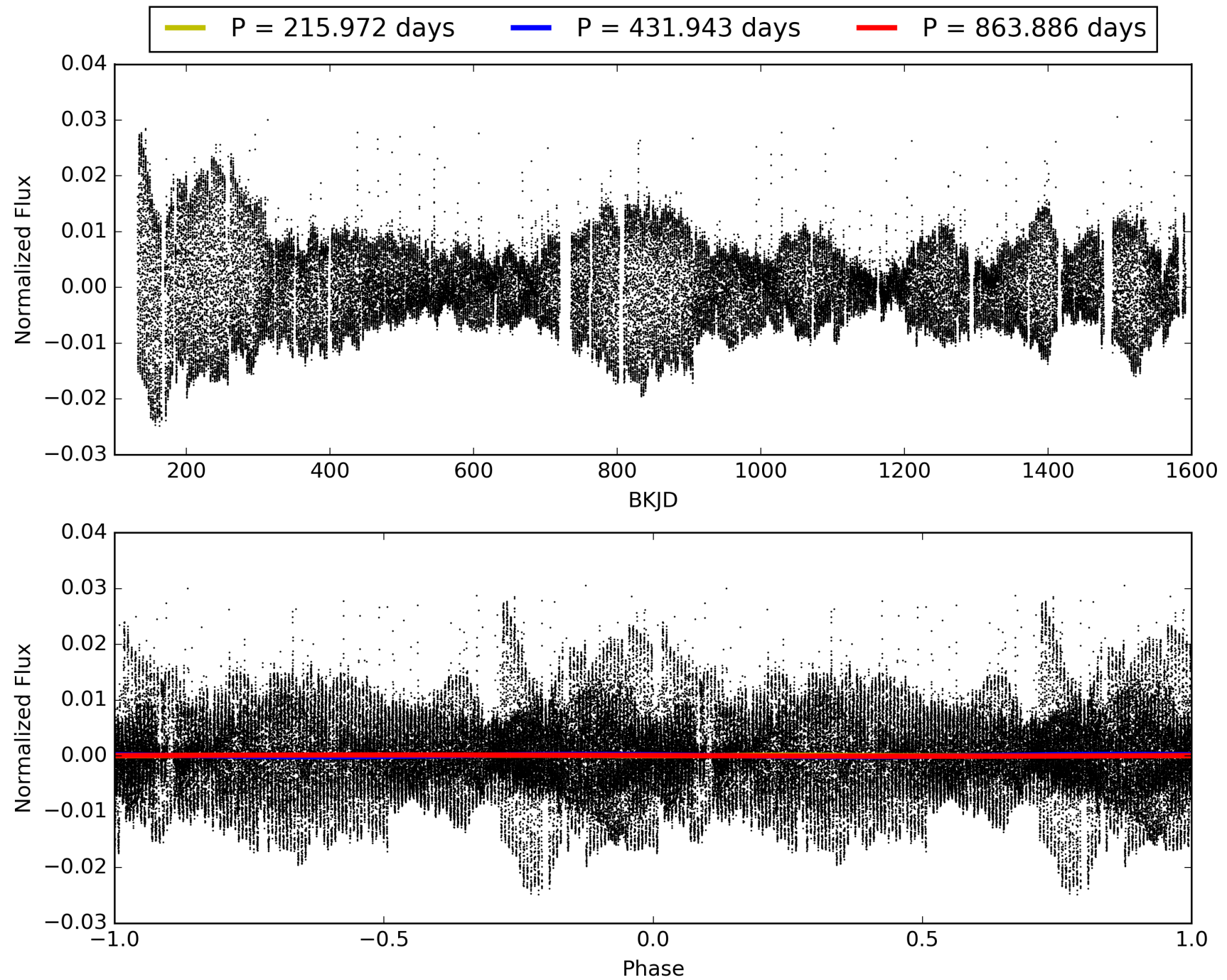
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 15:24:07 Z

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

TCE 006763067-03, PDC Light Curves

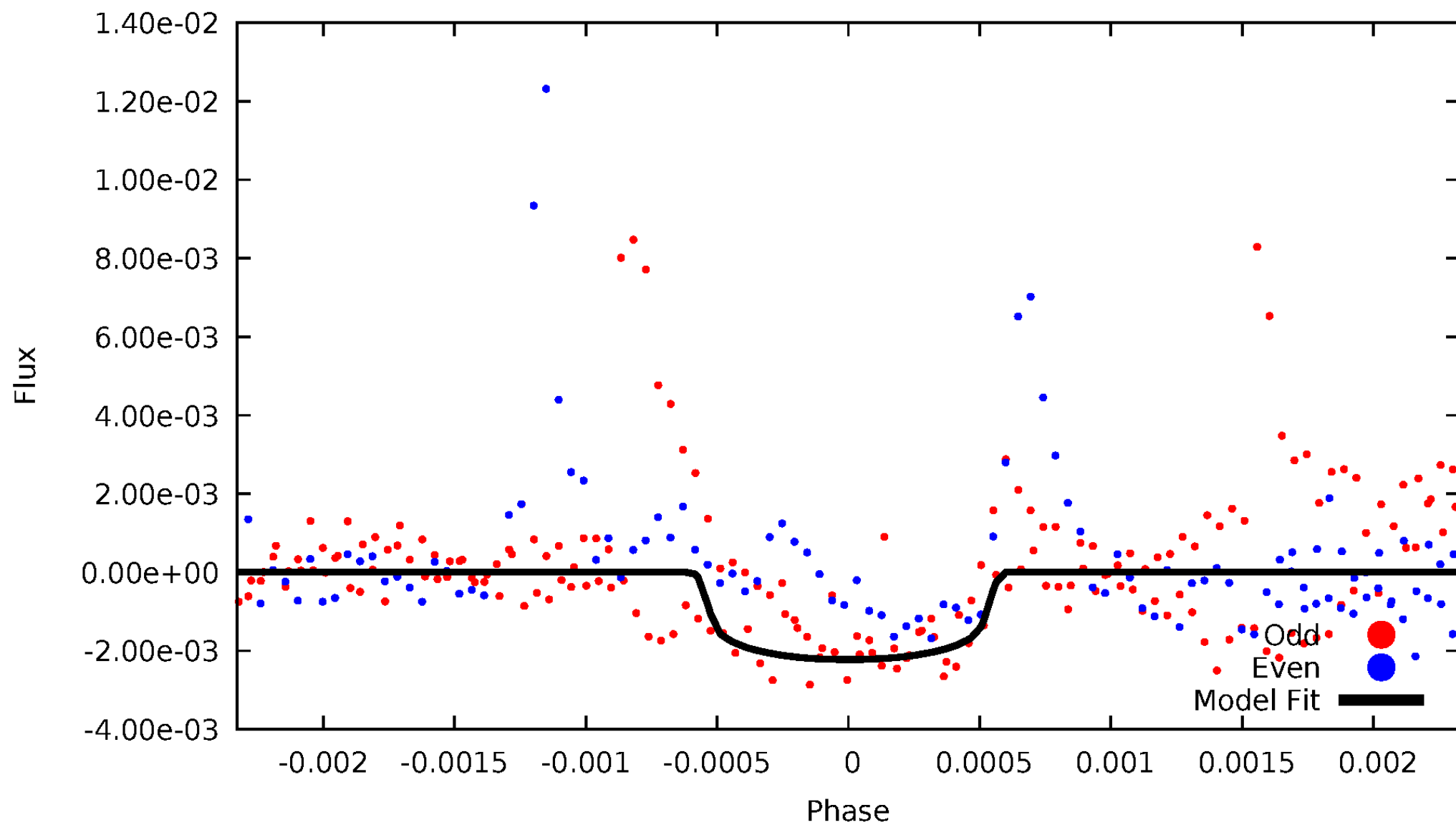


TCE 006763067-03



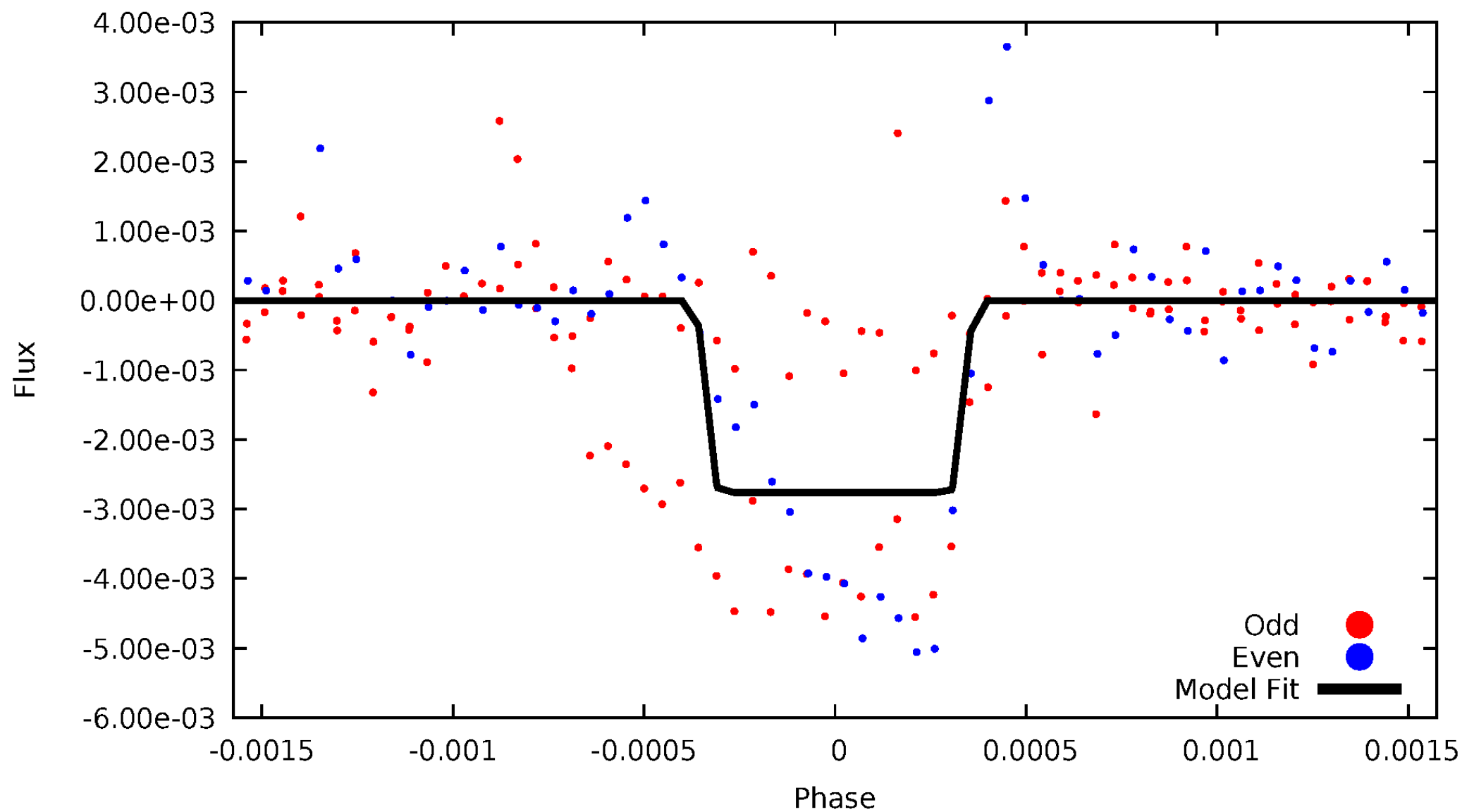
DV Odd/Even

TCE 006763067-03



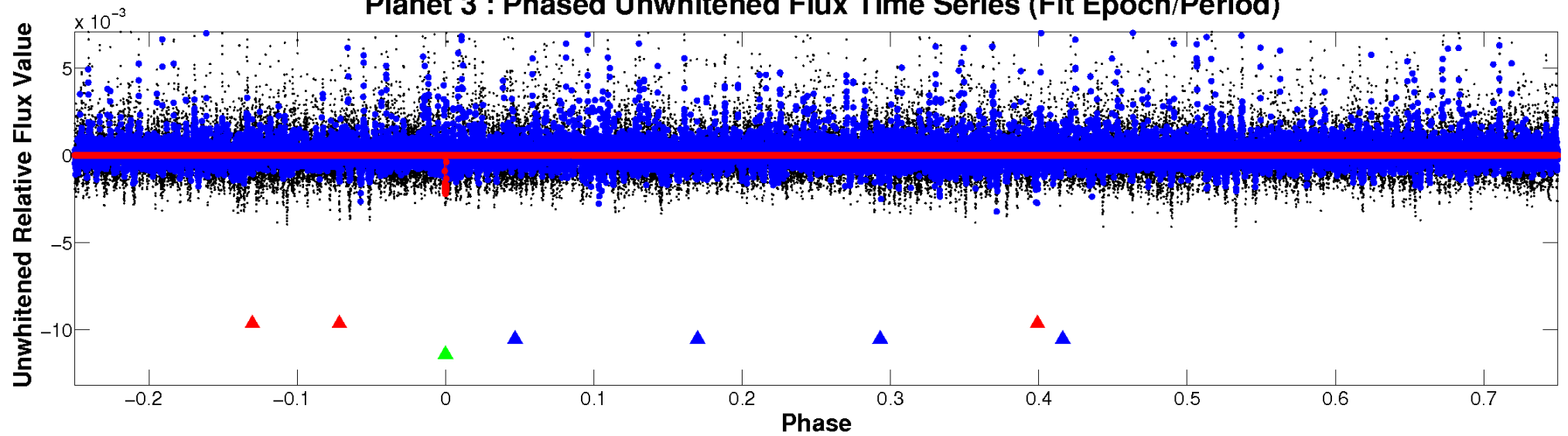
ALT Odd/Even

TCE 006763067-03

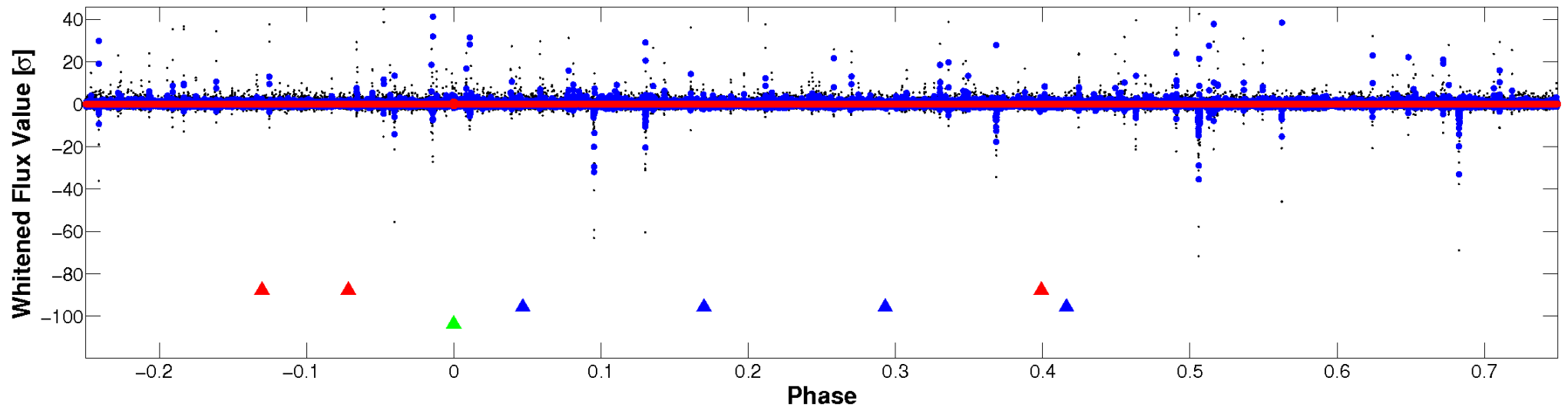


Non-Whitened Vs. Whitened Light Curve

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

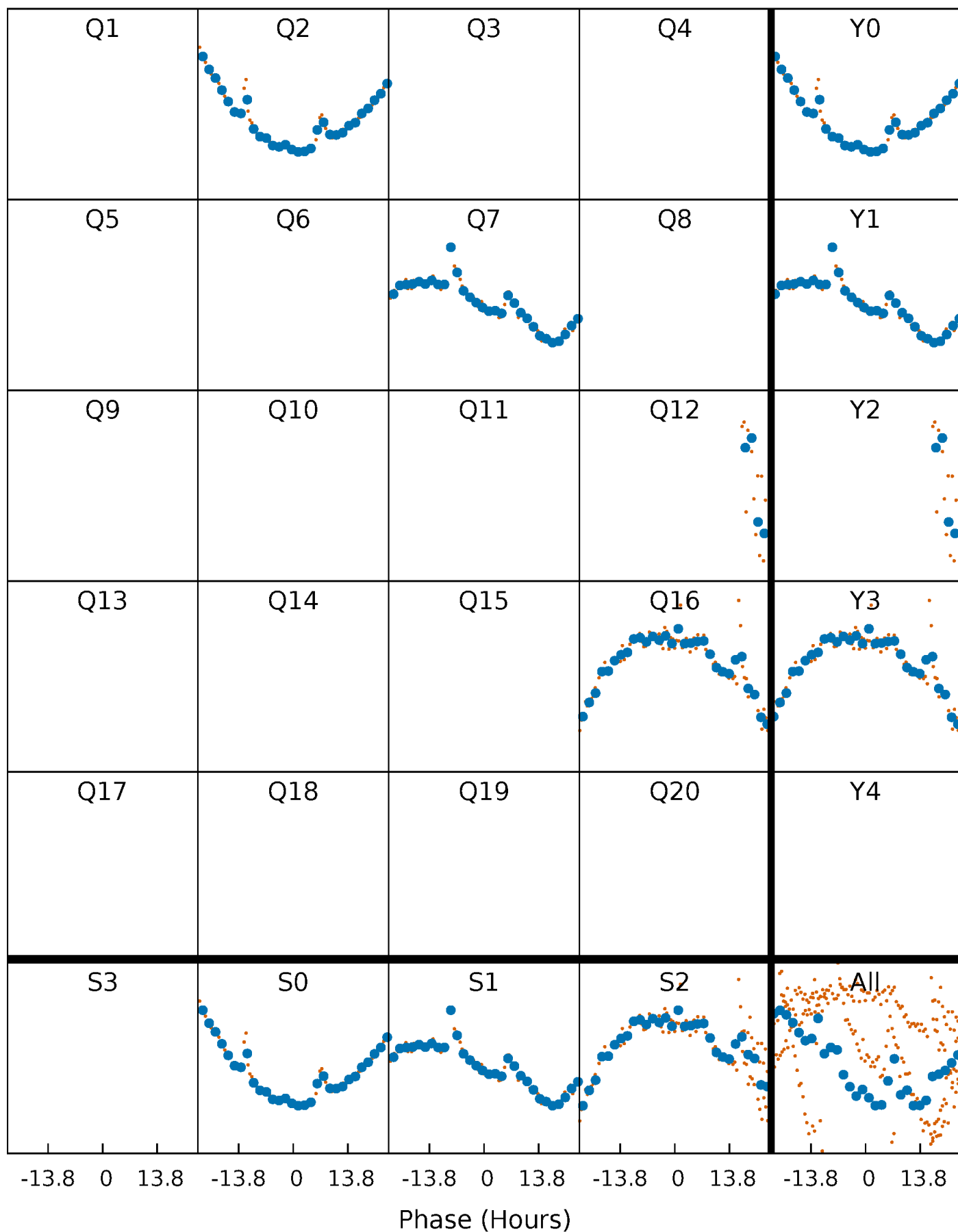


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



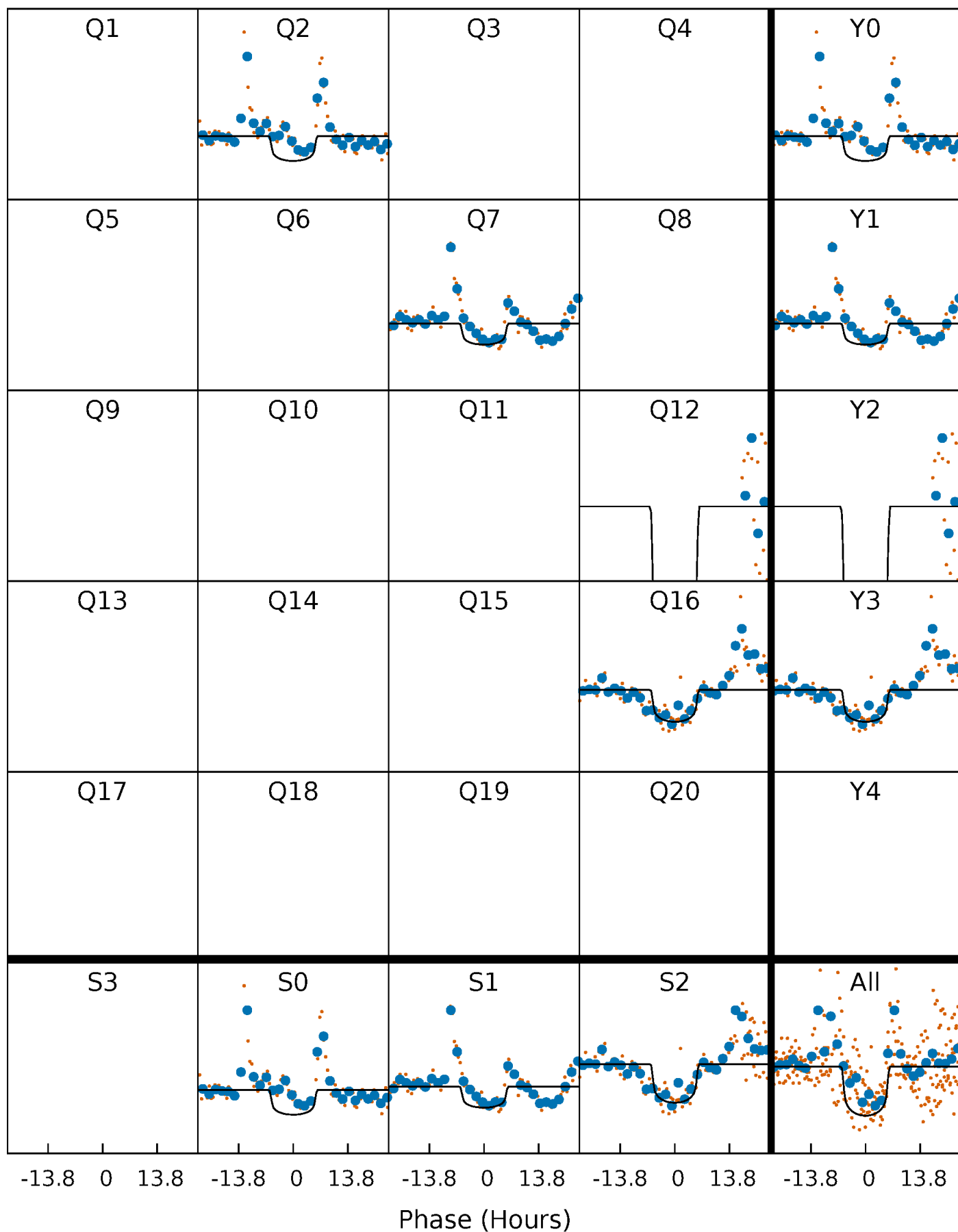
PDC Quarter-Phased Transit Curves

TCE 006763067-03 P=431.943060 Days $T_0=254.244413$ (BKJD)



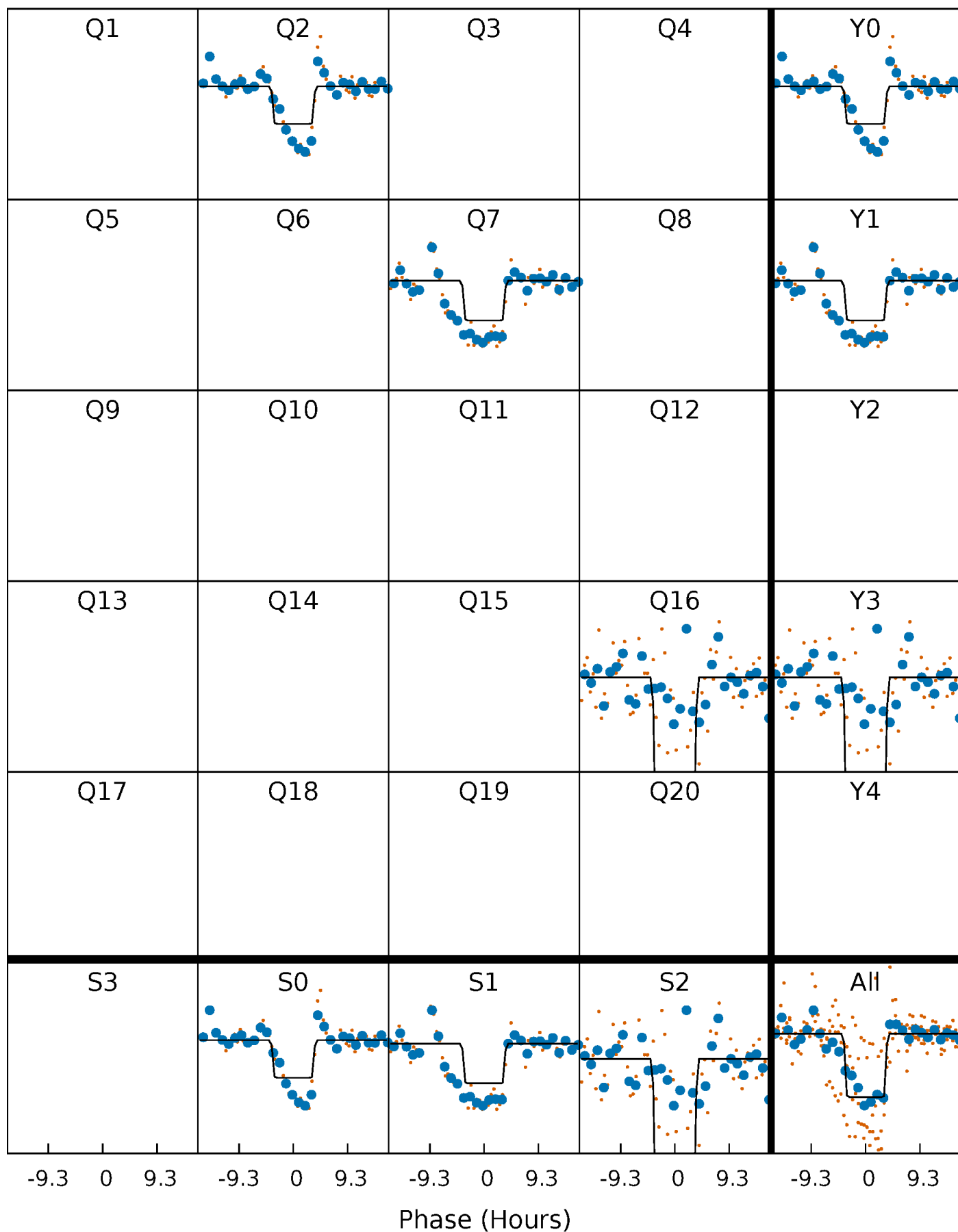
DV Quarter-Phased Transit Curves

TCE 006763067-03 P=431.943060 Days $T_0=254.244413$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

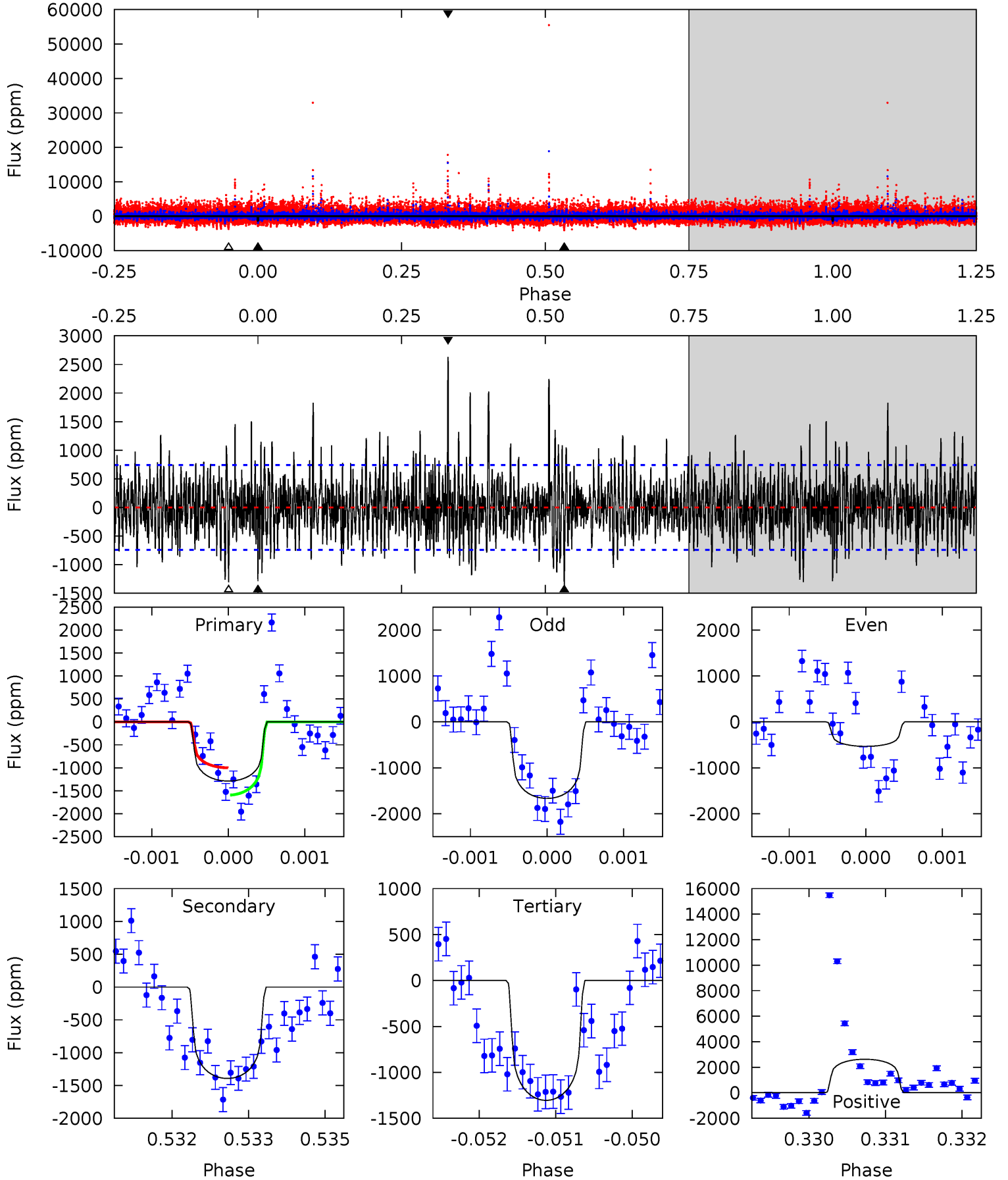
TCE 006763067-03 $P=431.904158$ Days $T_0=254.349732$ (BKJD)



DV Model-Shift Uniqueness Test

006763067-03, P = 431.943060 Days, E = 254.244413 Days

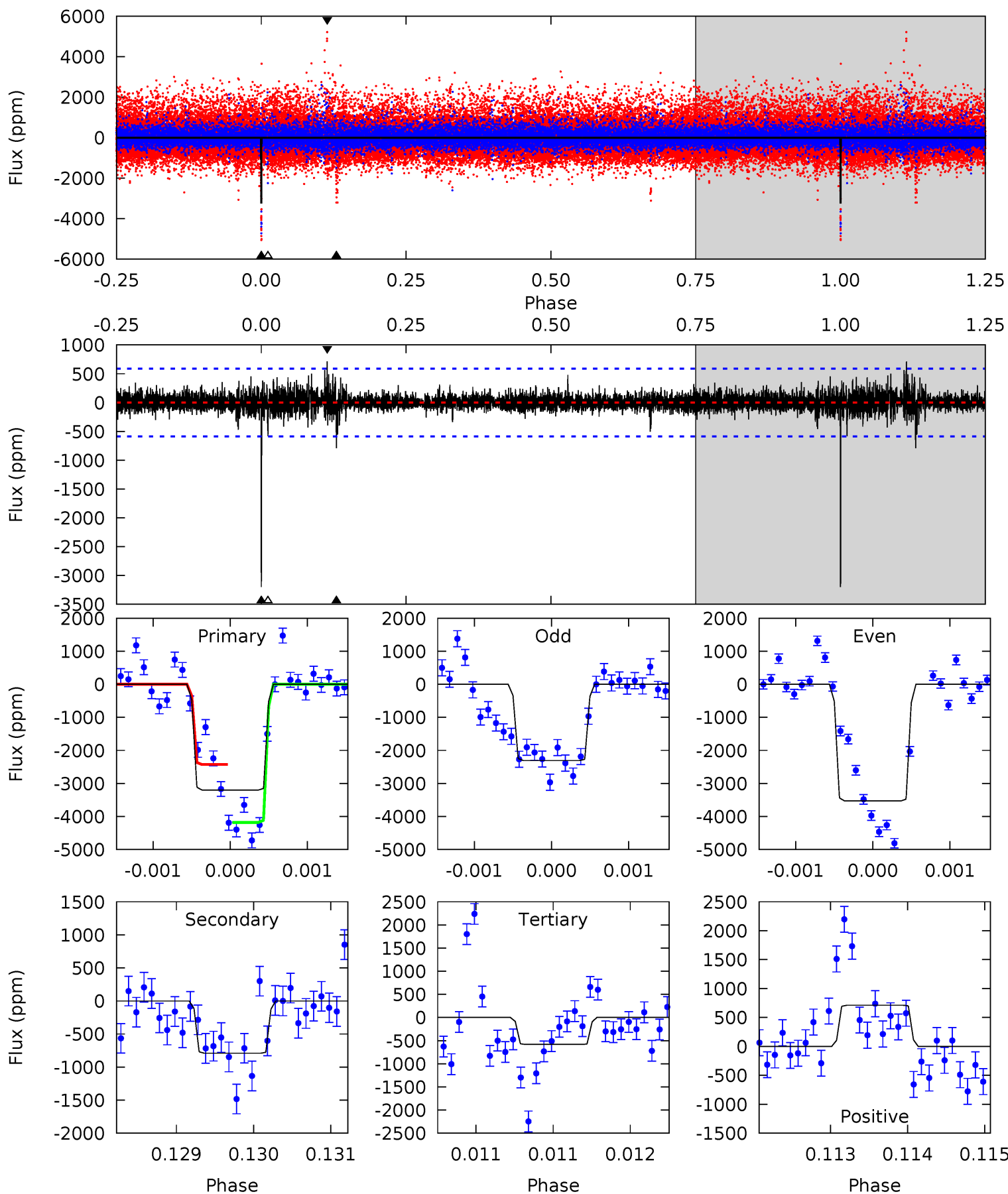
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.40	10.2	9.52	19.2	5.42	3.24	3.05	-0.12	-9.76	0.64	-9.00	2.32	0.93	0.65	2.17



Alt Model-Shift Uniqueness Test

006763067-03, P = 431.904158 Days, E = 254.349732 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.0	7.40	5.46	6.66	5.51	3.38	0.92	24.5	23.3	1.94	0.73	6.06	0.74	0.18	8.14



Stellar Parameters For KIC 006763067

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3692^{+51}_{-66}	$4.818^{+0.036}_{-0.036}$	$-0.200^{+0.100}_{-0.100}$	$0.439^{+0.030}_{-0.036}$	$0.462^{+0.029}_{-0.038}$	$7.708^{+1.488}_{-1.036}$
	+1%/-2%	+1%/-1%	+50%/-50%	+7%/-8%	+6%/-8%	+19%/-13%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006763067-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1393 ± 137	$2.15^{+0.30}_{-0.35}$	162^{+3}_{-4}	3479^{+214}_{-164}	123677^{+51257}_{-30638}
Alt.	-790 ± 107	$2.52^{+0.30}_{-0.34}$	162^{+4}_{-4}	3041^{+134}_{-122}	50450^{+19002}_{-11933}

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 $A_{obs} \gg 1.0$

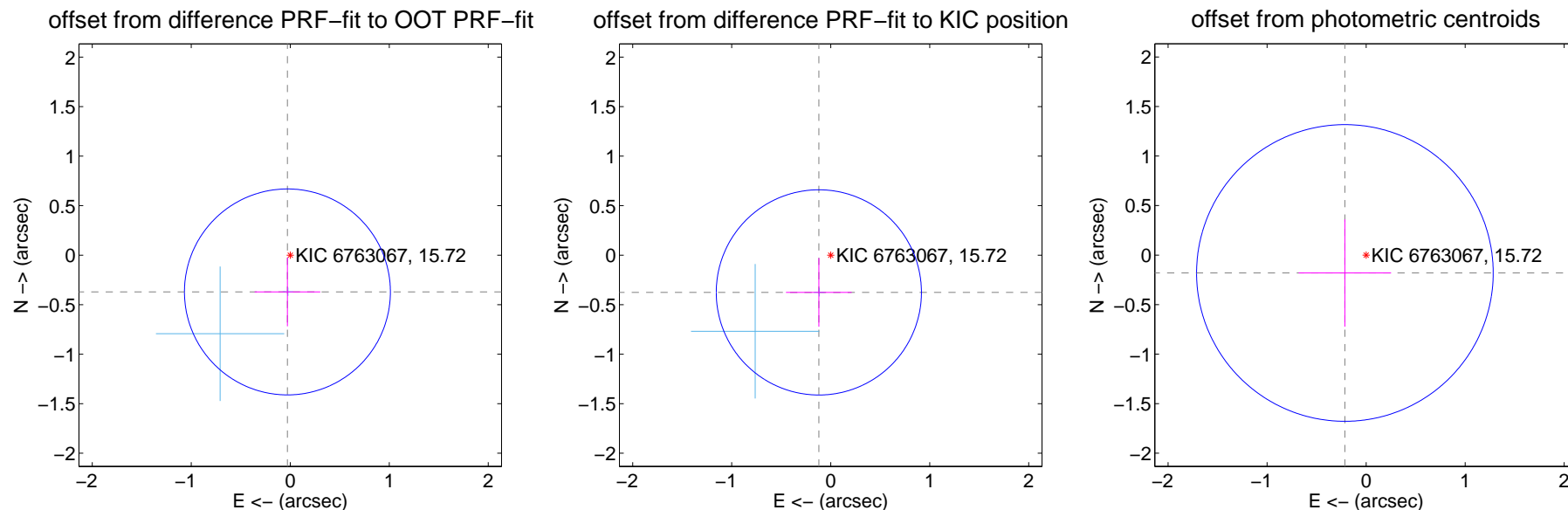
DV Centroid Data

Supplemental centroid analysis for 006763067-03. Kepler magnitude: 15.72. Transit SNR 7.68

There are 2 quarters with good PRF difference image offsets

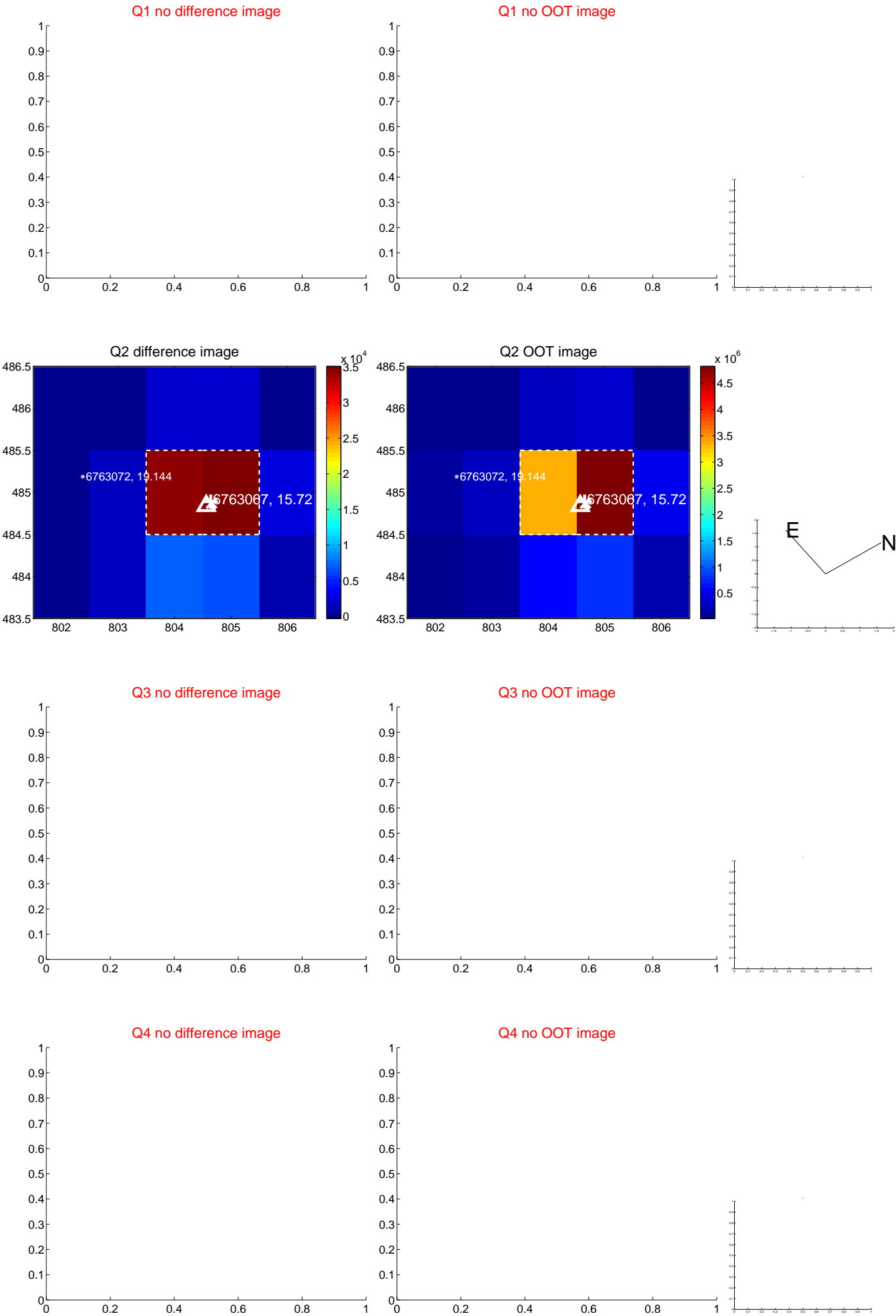
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.372 ± 0.347	1.07	0.029 ± 0.332	-0.371 ± 0.347
PRF-fit source offset from KIC position	0.395 ± 0.345	1.14	0.120 ± 0.332	-0.376 ± 0.347
photometric centroid source offset	0.28 ± 0.50	0.56	0.21 ± 0.47	-0.18 ± 0.54

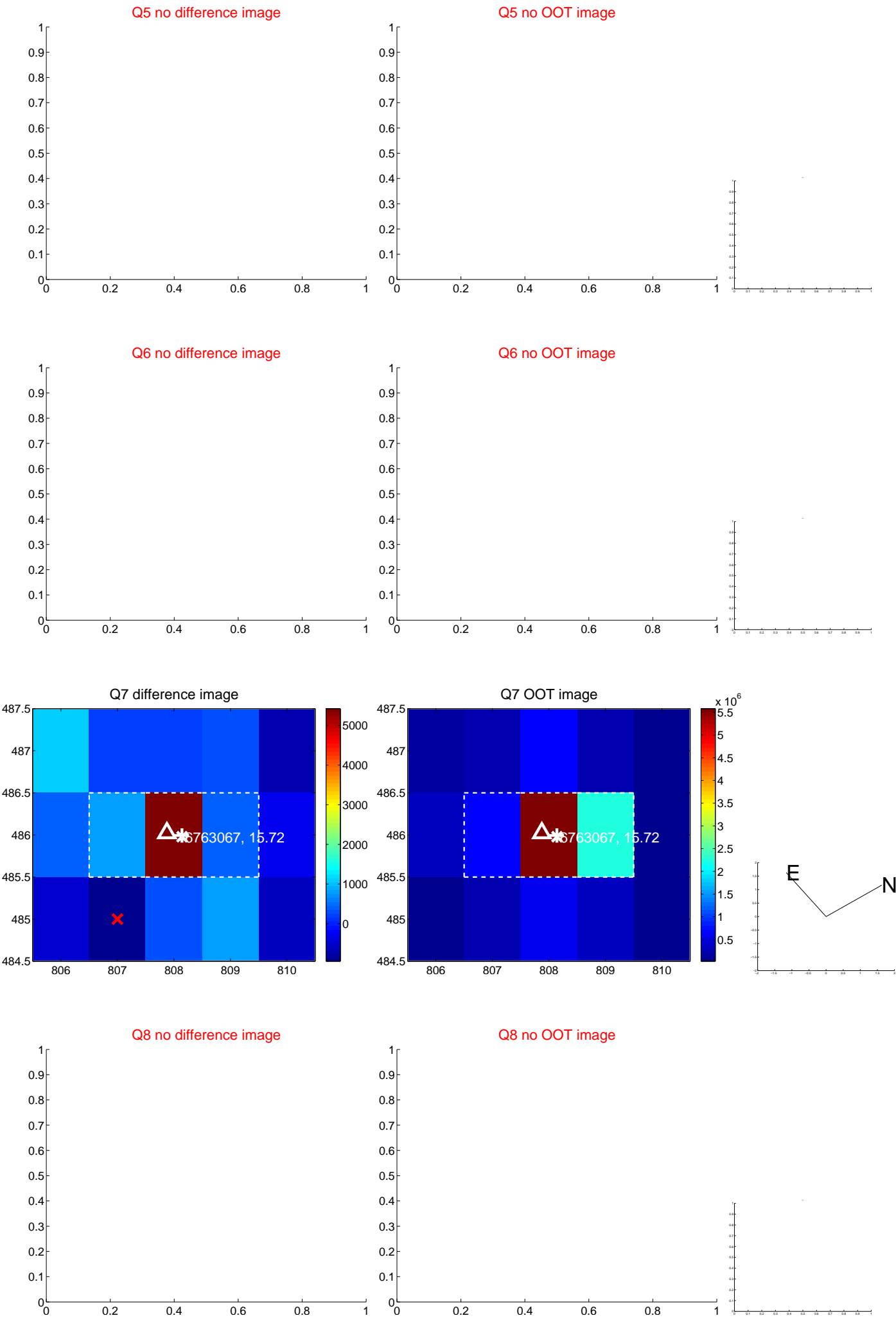


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



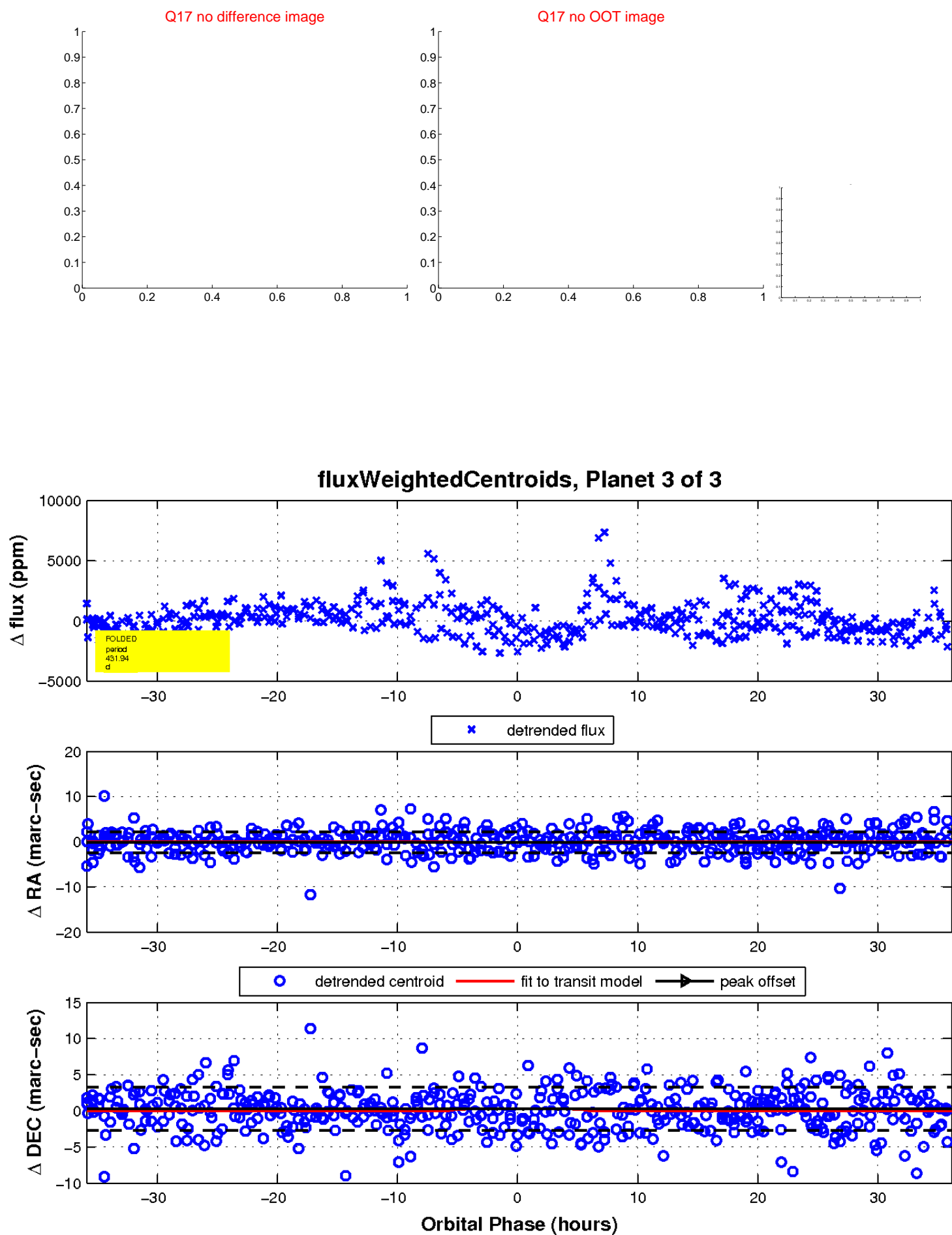
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

