

KIC 006794650

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})
006794650-01	OBS	No	459.340995	468.123588	654.9	3.306	16.1	2.2	0.73	5370	1.88	0.36
006794650-02	OBS	No	378.513045	192.593345	2822.3	5.455	13.1	8.7	0.73	5370	3.83	0.47
006794650-03	OBS	No	359.803186	307.638319	1161.0	3.000	14.1	-1.0	0.73	5370	2.45	0.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006794650-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006794650-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006794650-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

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

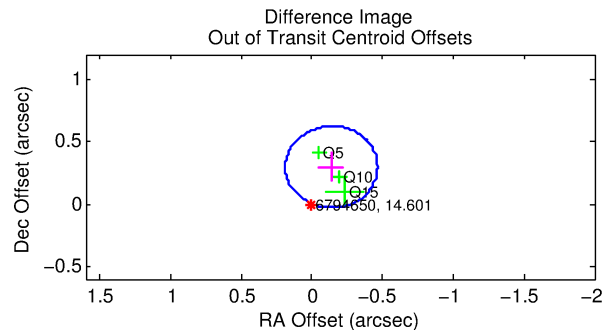
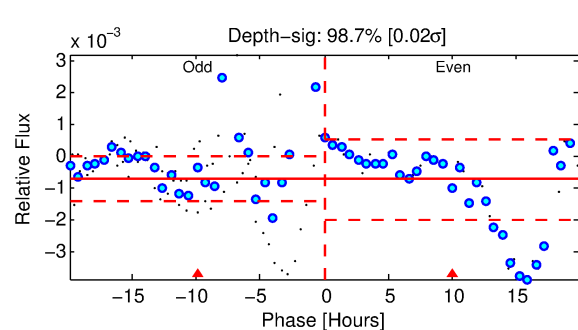
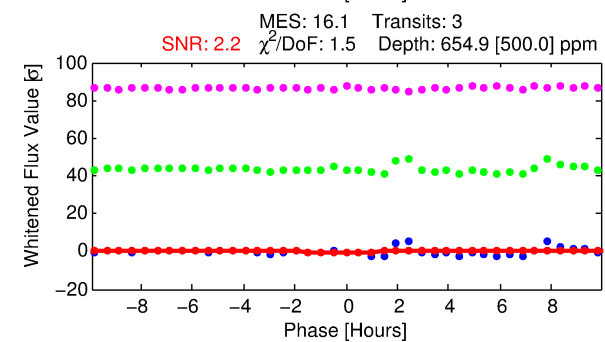
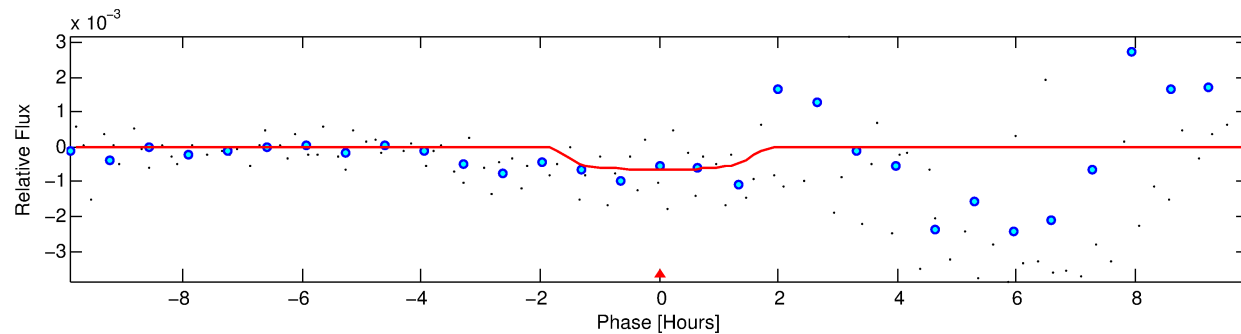
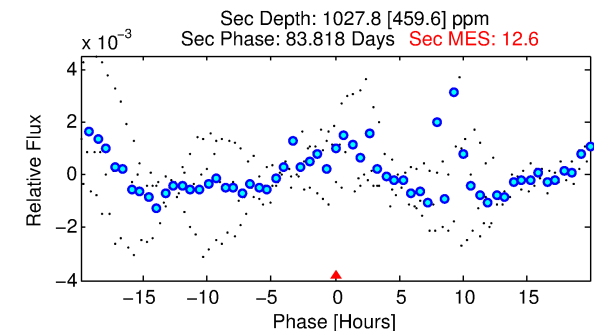
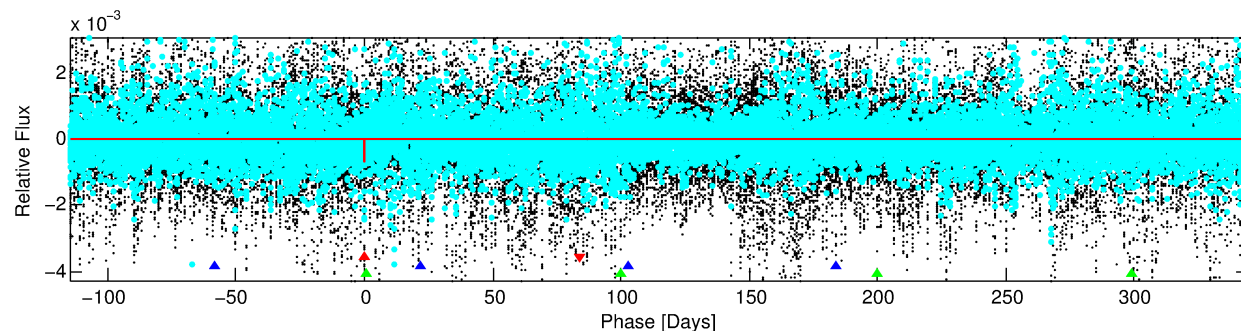
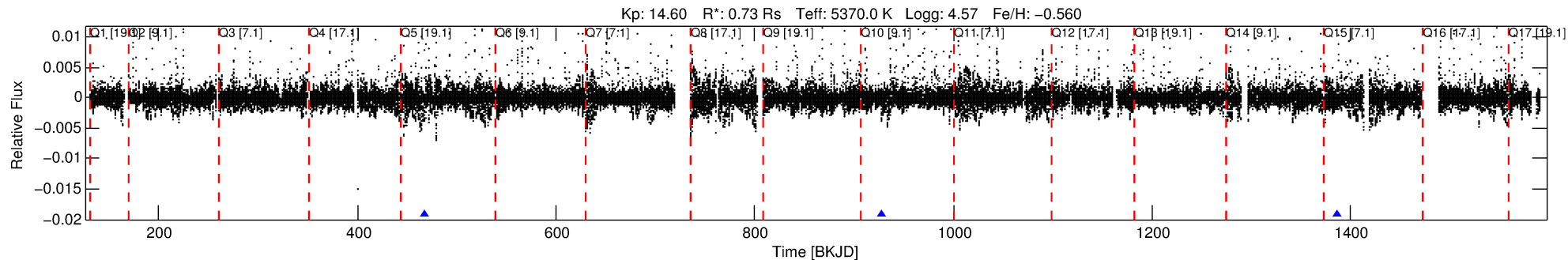
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006794650-01

No Significant Match Found

DV One-Page Summary

KIC: 6794650 Candidate: 1 of 3 Period: 459.341 d



DV Fit Results:

Period = 459.34100 [0.02160] d
Epoch = 468.1236 [0.0196] BKJD
Rp/R* = 0.0237 [0.2184]
a/R* = 986.87 [38184.12]
b = 0.43 [74.51]
Seff = 0.36 [0.07]
Teq = 198 [9] K
Rp = 1.88 [17.33] Re
a = 1.0419 [0.1113] AU
Ag = 173760.77 [3205071.76] [0.05σ]
Teffp = 6247 [28806] K [0.21σ]

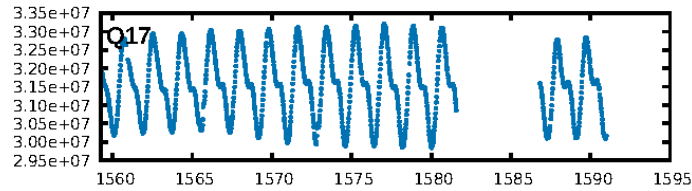
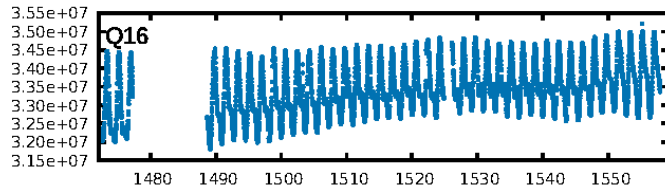
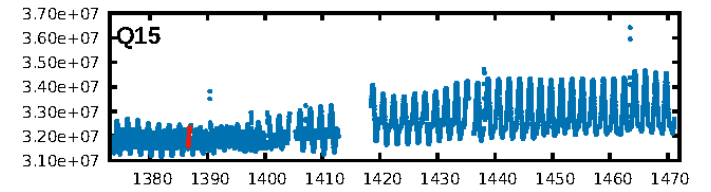
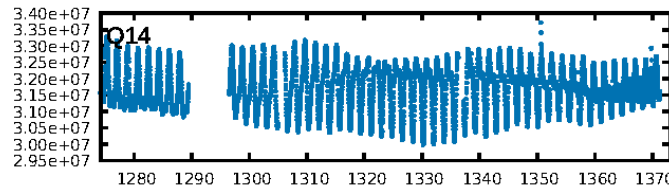
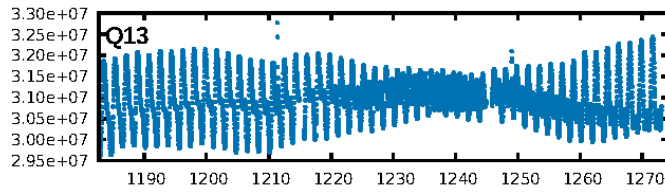
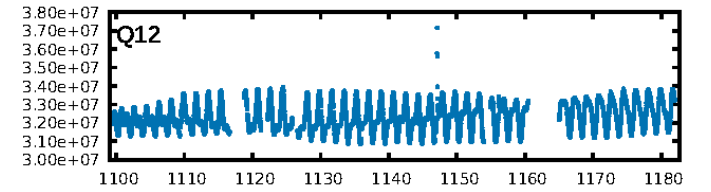
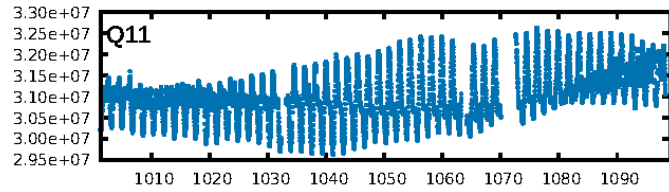
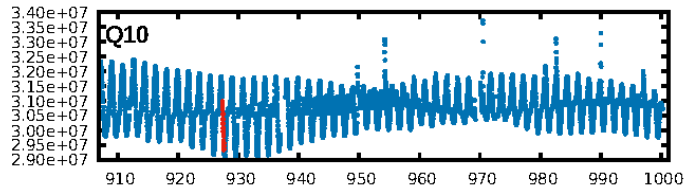
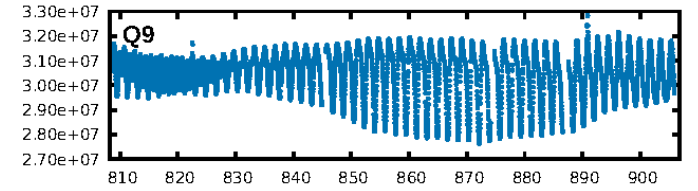
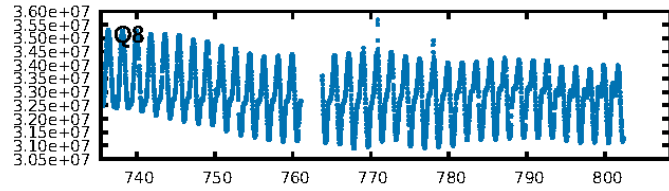
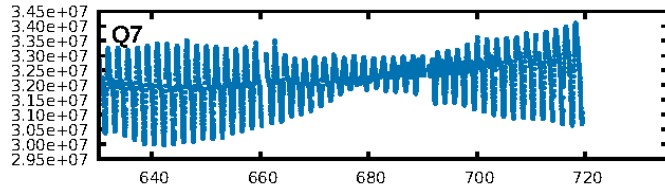
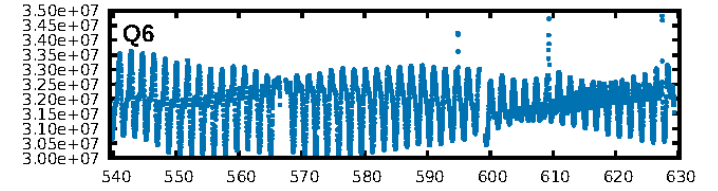
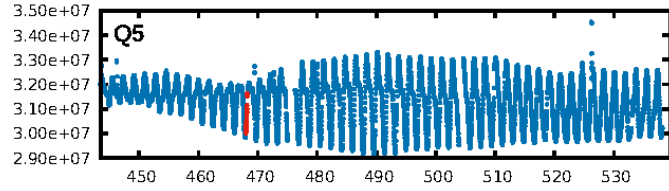
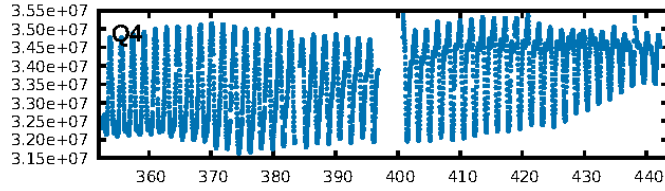
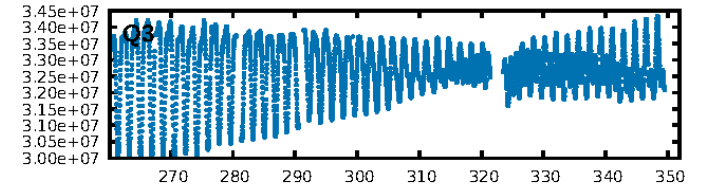
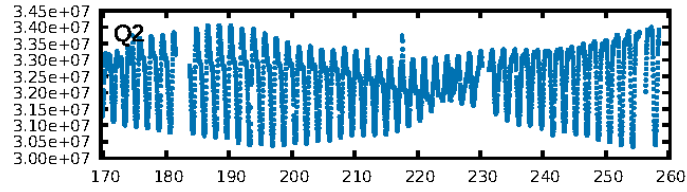
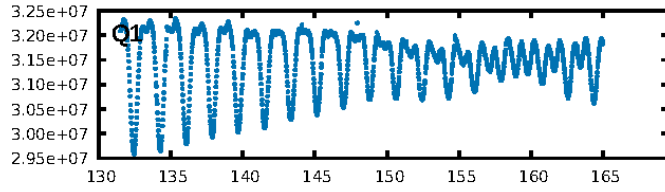
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [304.10σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 58.2%
ModelChiSquareGof-sig: 71.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.3528
Centroid-sig: 84.1%
Centroid-so: 2.970 arcsec [0.54σ]
OotOffset-rm: 0.328 arcsec [3.01σ]
KicOffset-rm: 0.275 arcsec [2.67σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.67 [2/3]

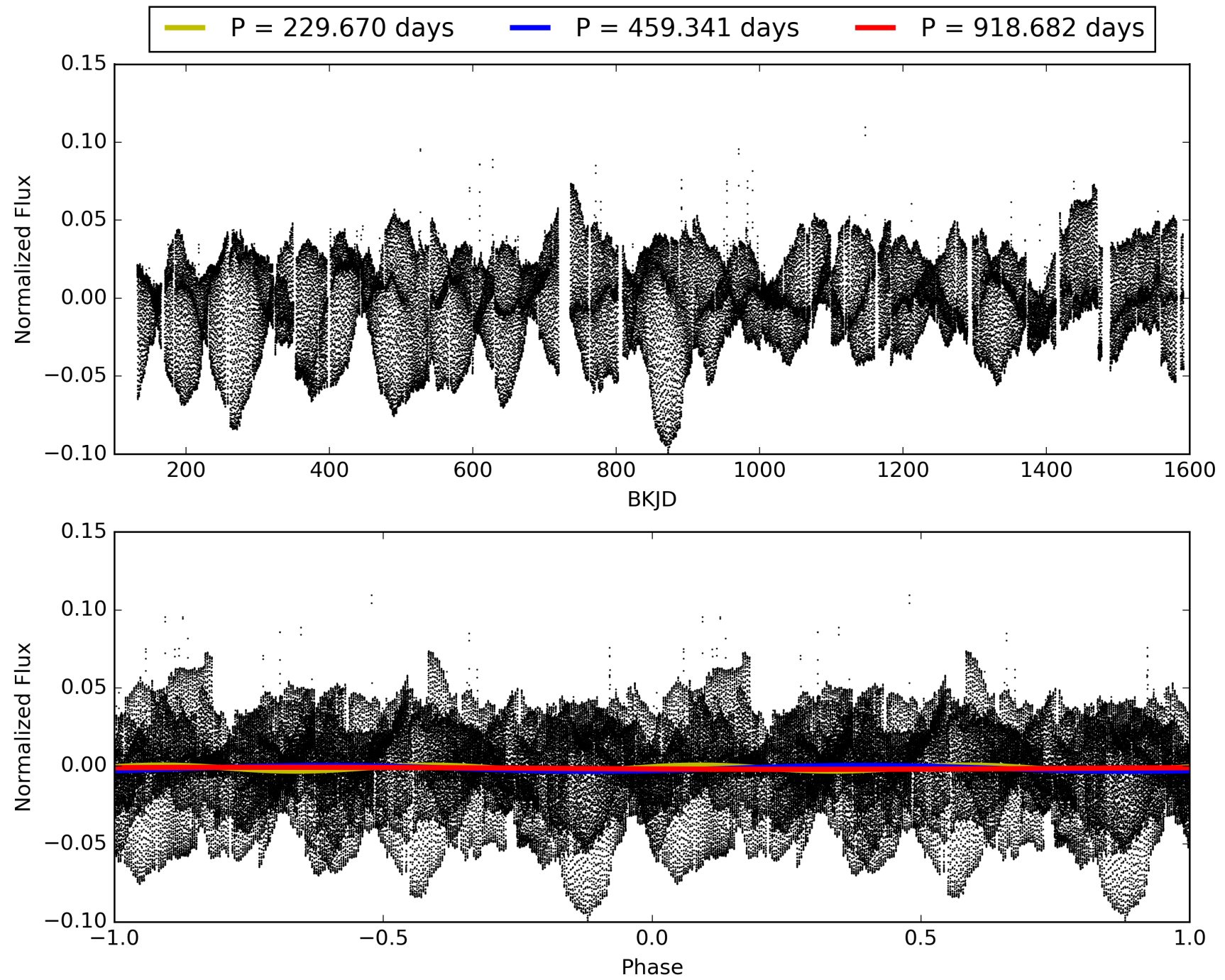
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006794650-01, PDC Light Curves

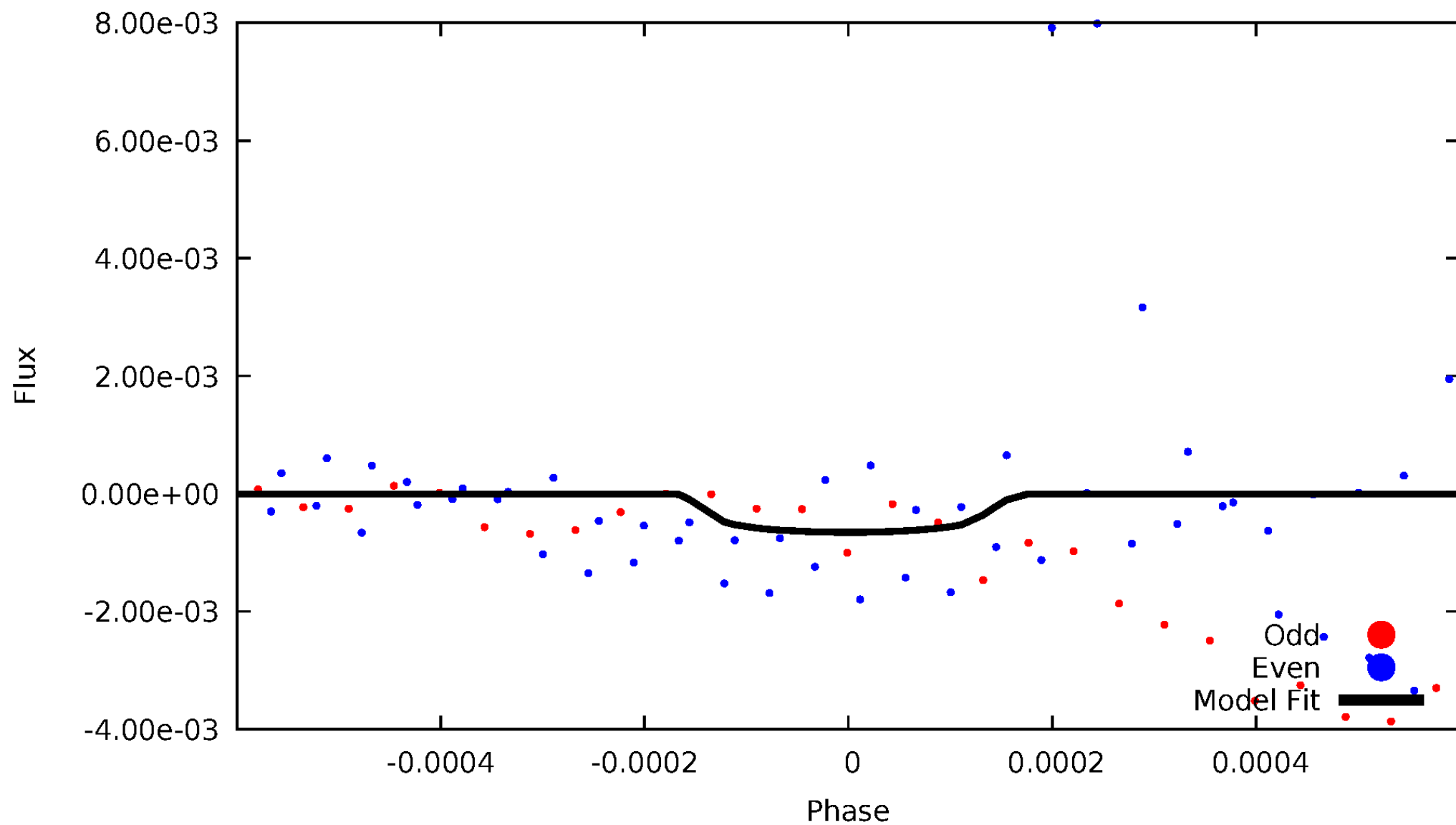


TCE 006794650-01



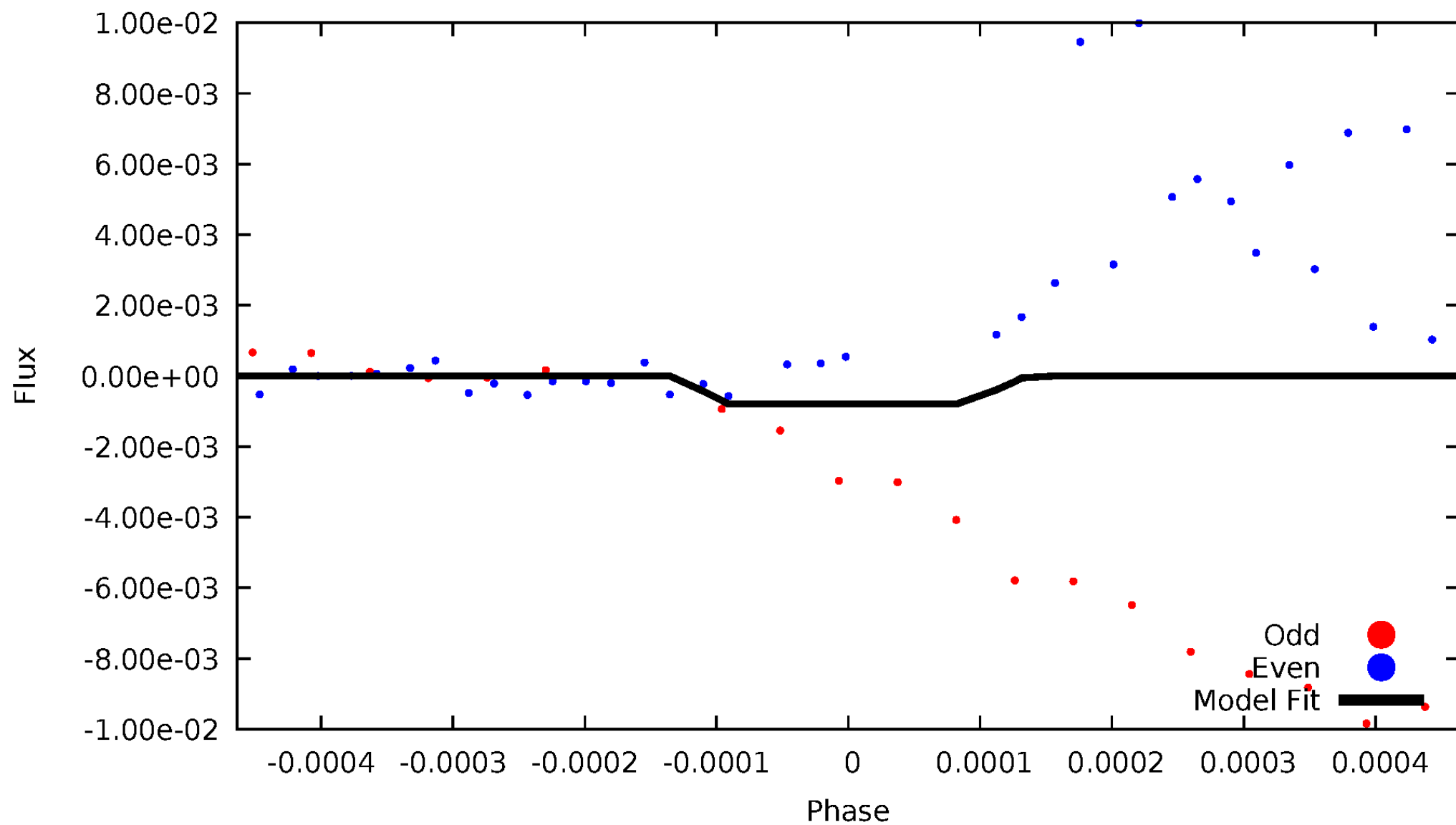
DV Odd/Even

TCE 006794650-01



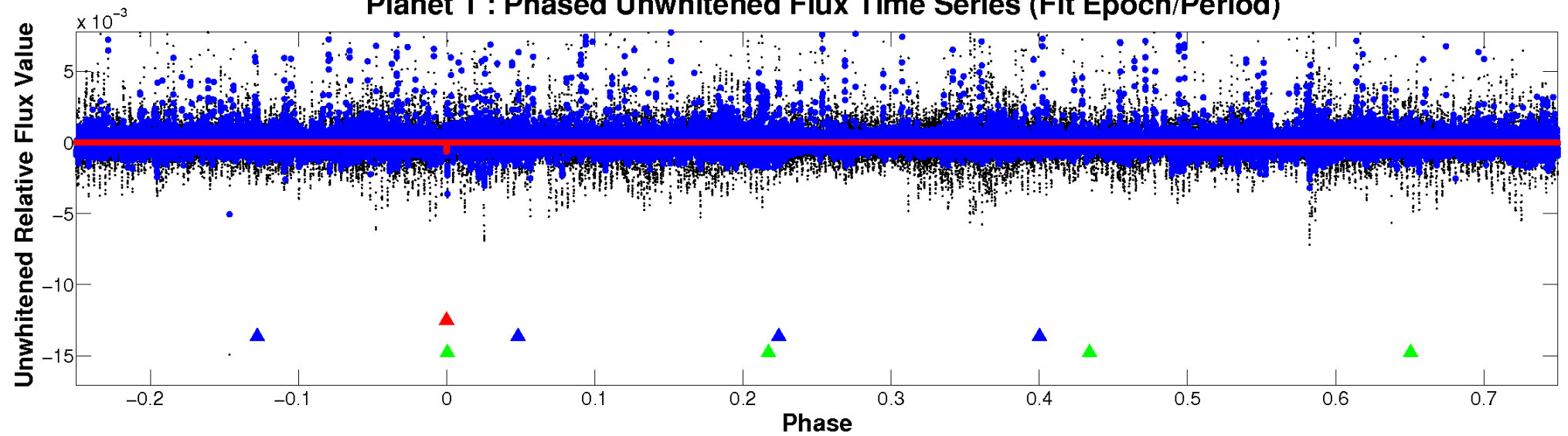
ALT Odd/Even

TCE 006794650-01

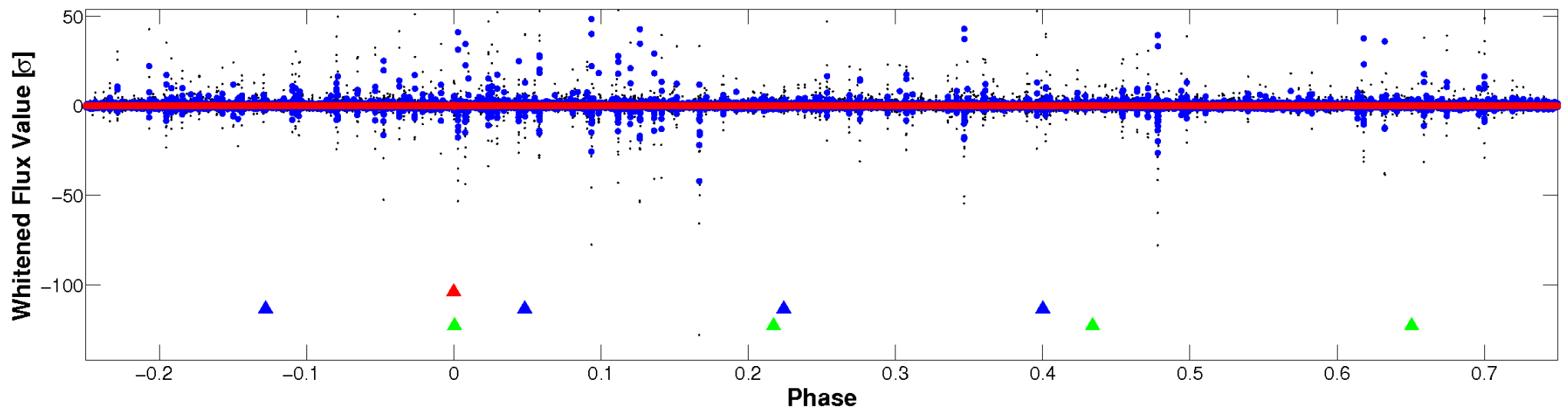


Non-Whitened Vs. Whitened Light Curve

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

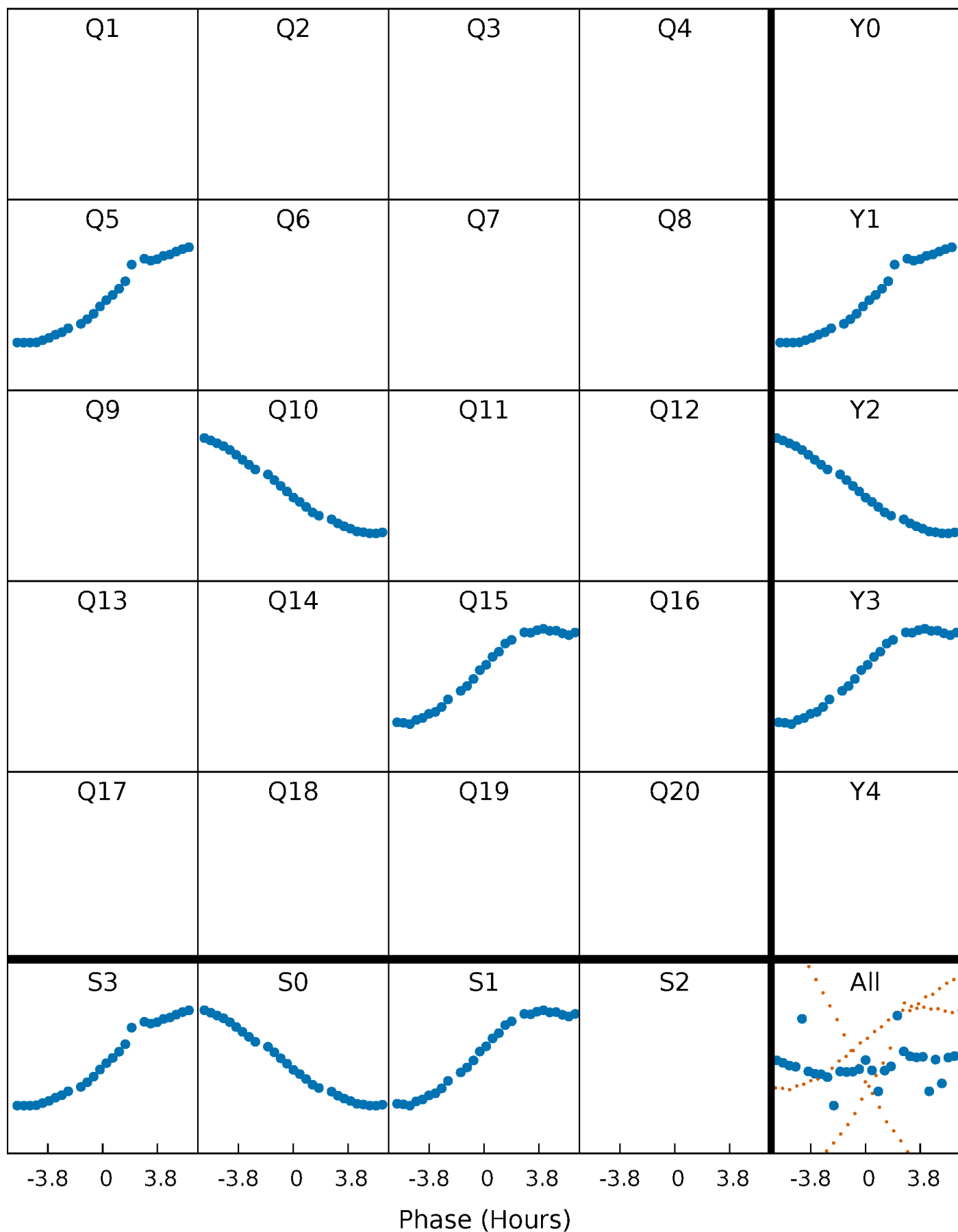


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



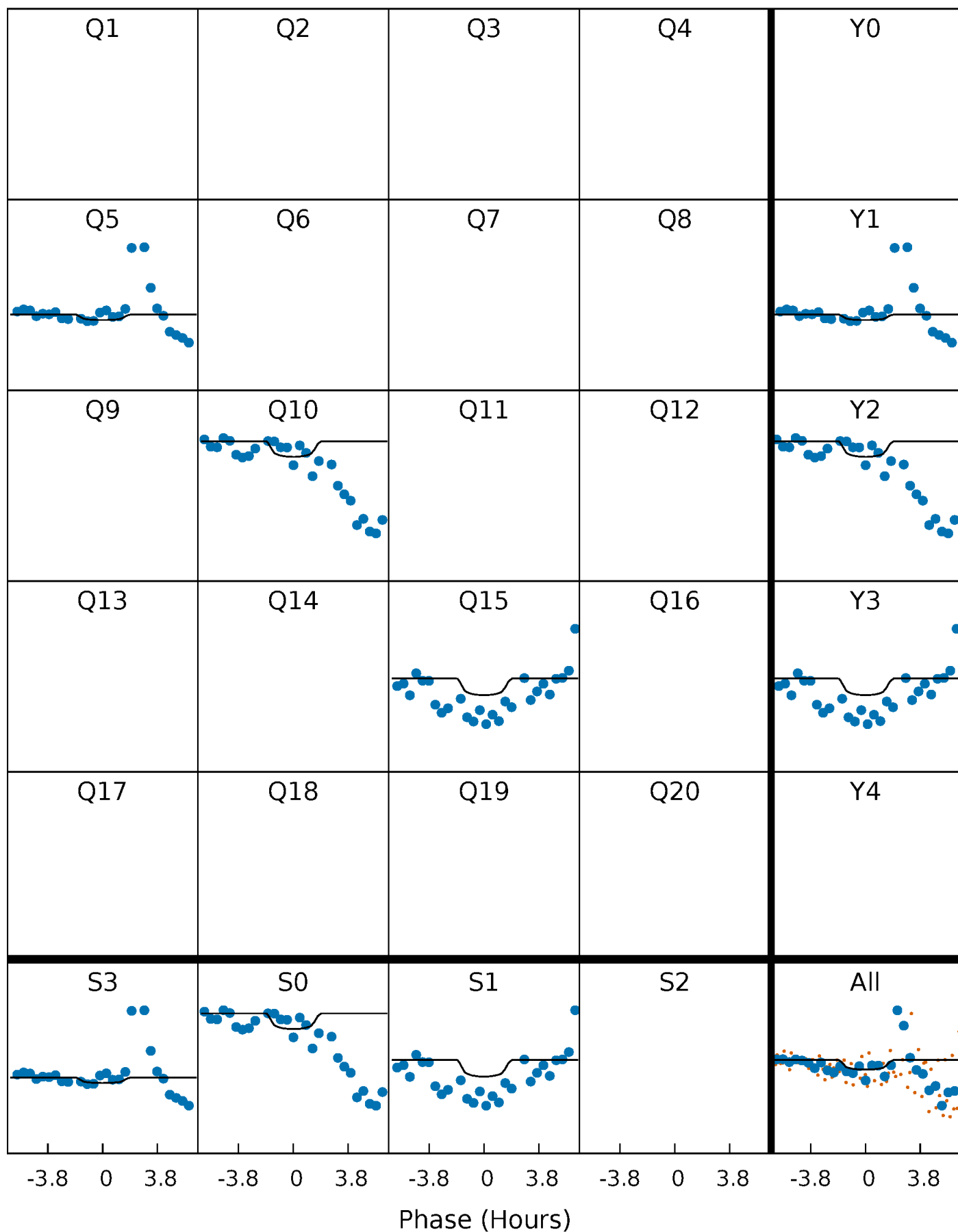
PDC Quarter-Phased Transit Curves

TCE 006794650-01 P=459.340995 Days $T_0=468.123588$ (BKJD)



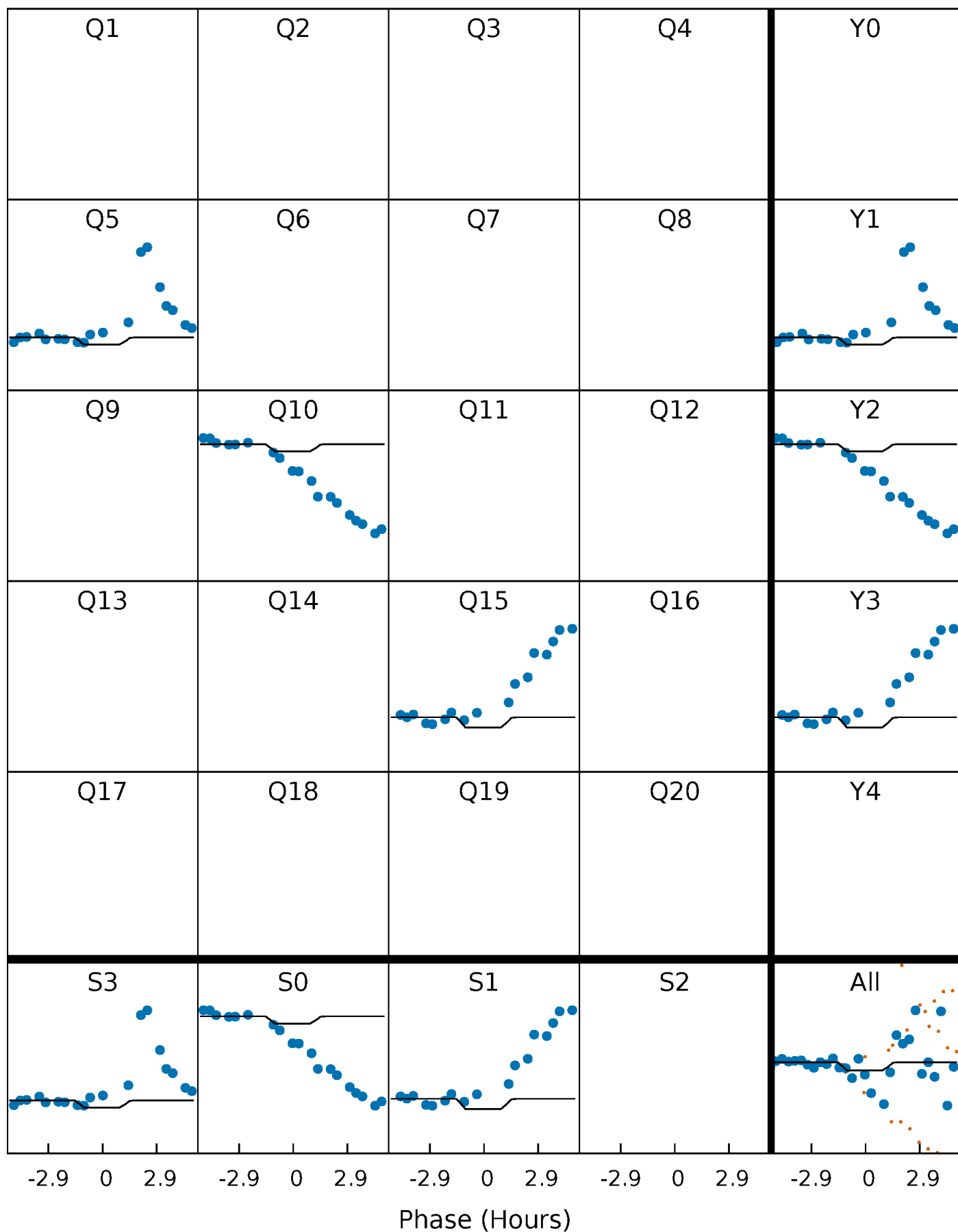
DV Quarter-Phased Transit Curves

TCE 006794650-01 P=459.340995 Days $T_0=468.123588$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

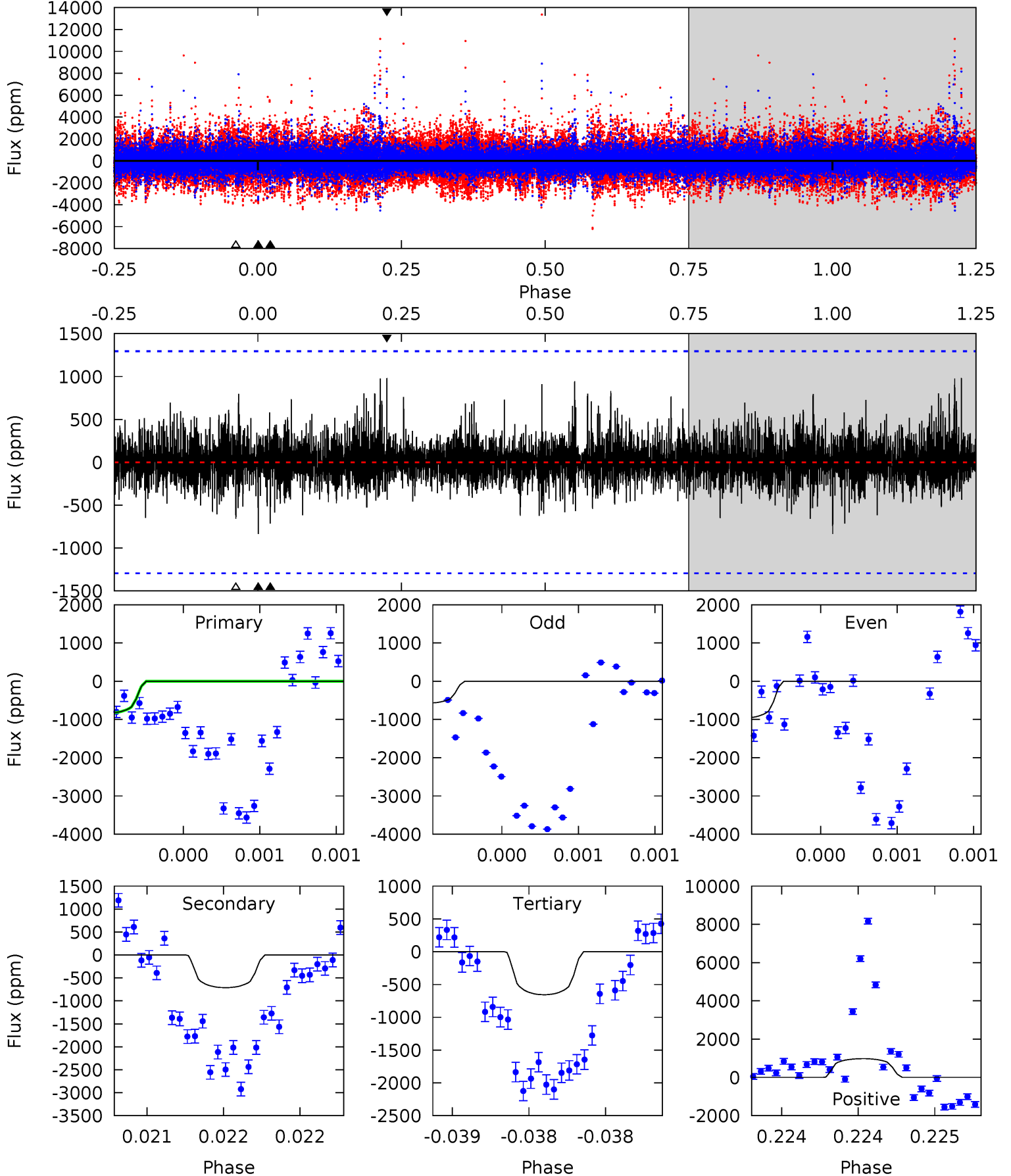
TCE 006794650-01 P=459.332806 Days $T_0=468.134556$ (BKJD)



DV Model-Shift Uniqueness Test

006794650-01, P = 459.340995 Days, E = 8.782593 Days

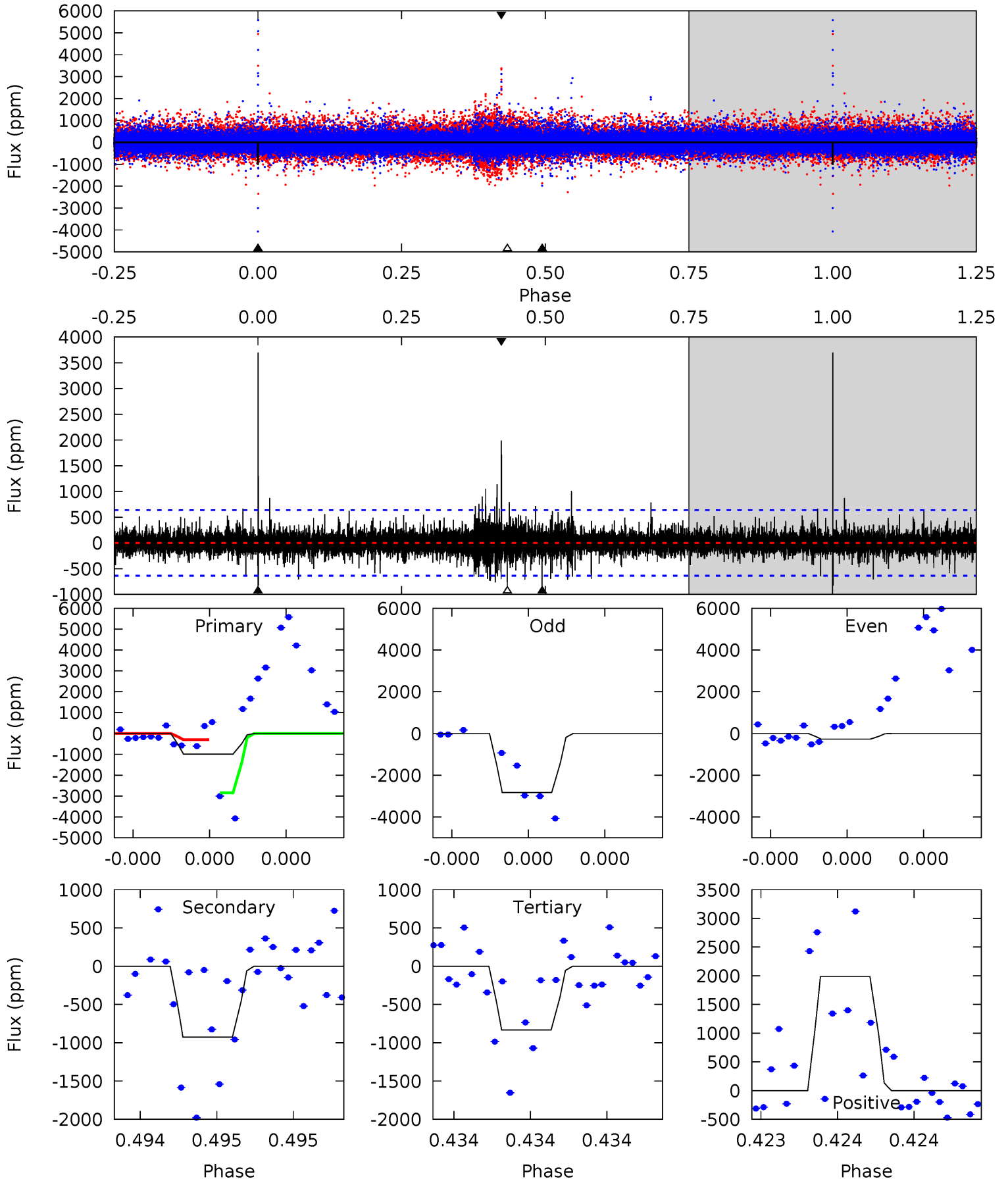
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.63	3.10	2.86	4.27	5.64	3.58	0.80	0.77	-0.64	0.24	-1.17	0.46	1.45	0.54	0.00



Alt Model-Shift Uniqueness Test

006794650-01, P = 459.332806 Days, E = 8.801750 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.84	8.26	7.43	17.7	5.68	3.65	1.29	1.42	-8.87	0.83	-9.45	10.0	-5.34	0.79	11.0



Stellar Parameters For KIC 006794650

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5370^{+160}_{-160}	$4.569^{+0.077}_{-0.070}$	$-0.560^{+0.350}_{-0.300}$	$0.727^{+0.097}_{-0.071}$	$0.714^{+0.090}_{-0.045}$	$2.619^{+0.826}_{-0.627}$
	+3%/-3%	+2%/-2%	+62%/-54%	+13%/-10%	+13%/-6%	+32%/-24%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006794650-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-713 ± 230	$12.29^{+12.84}_{-8.44}$	277^{+11}_{-11}	2901^{+1225}_{-508}	2673^{+22632}_{-2054}
Alt.	-926 ± 112	$12.76^{+13.86}_{-9.11}$	276^{+11}_{-11}	3007^{+1549}_{-534}	3509^{+38623}_{-2700}

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 $A_{obs} \gg 1.0$

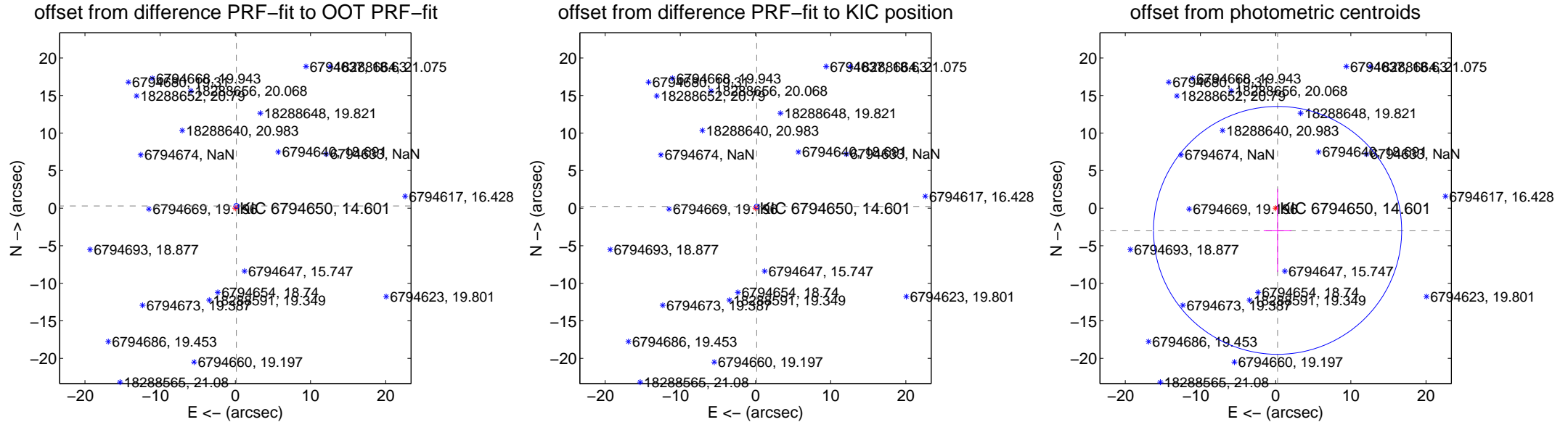
DV Centroid Data

Supplemental centroid analysis for 006794650-01. Kepler magnitude: 14.60. Transit SNR 2.16

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.328 \pm 0.109	3.01	-0.138 \pm 0.087	0.297 \pm 0.113
PRF-fit source offset from KIC position	0.275 \pm 0.103	2.67	-0.158 \pm 0.067	0.225 \pm 0.117
photometric centroid source offset	2.97 \pm 5.50	0.54	-0.26 \pm 1.84	-2.96 \pm 5.52

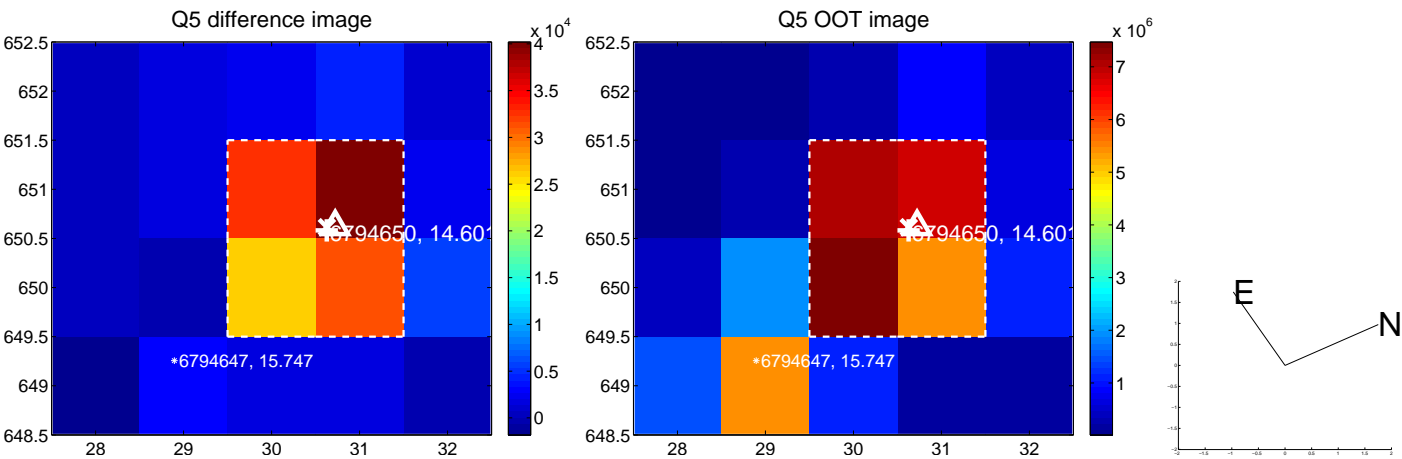


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

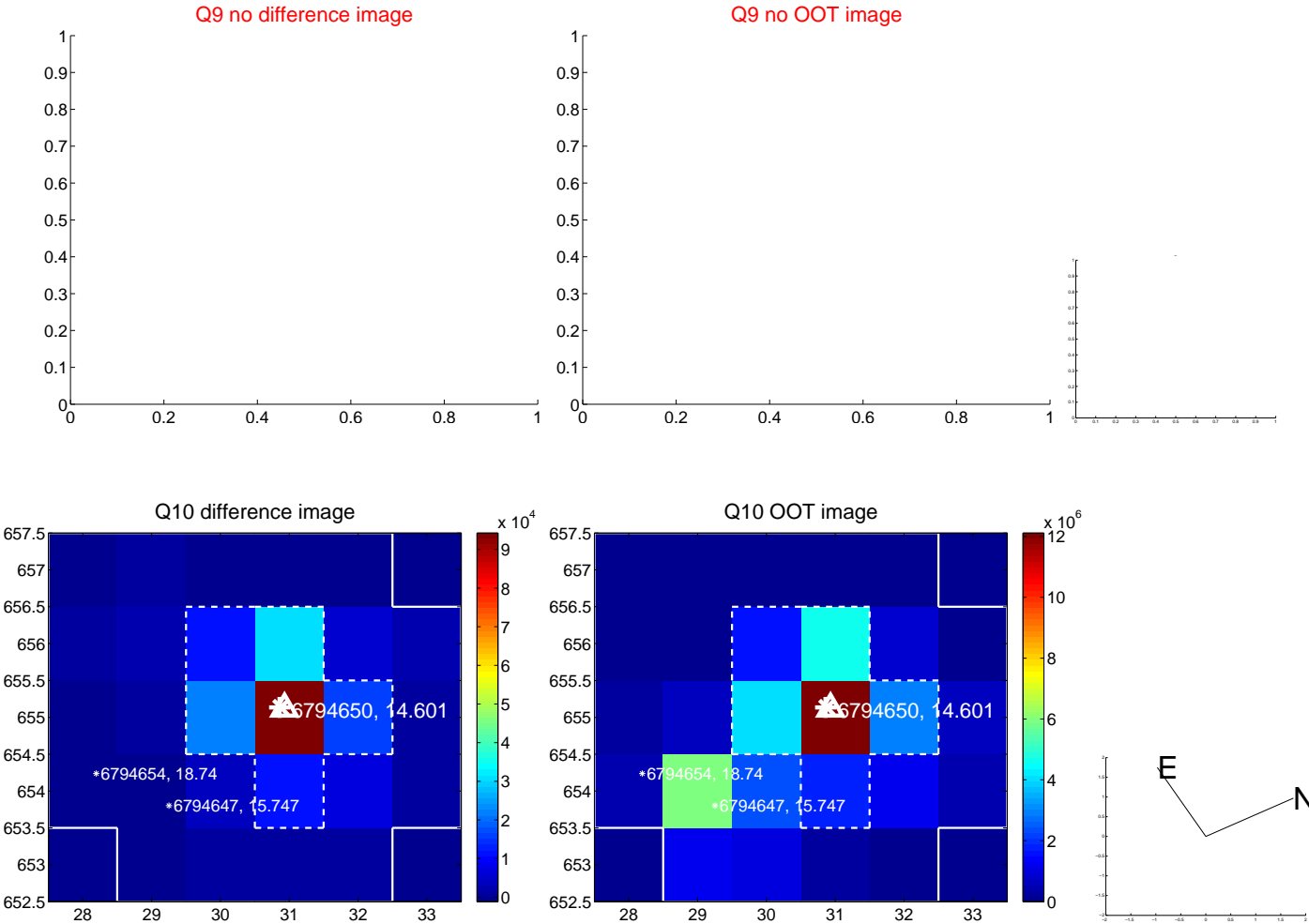
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



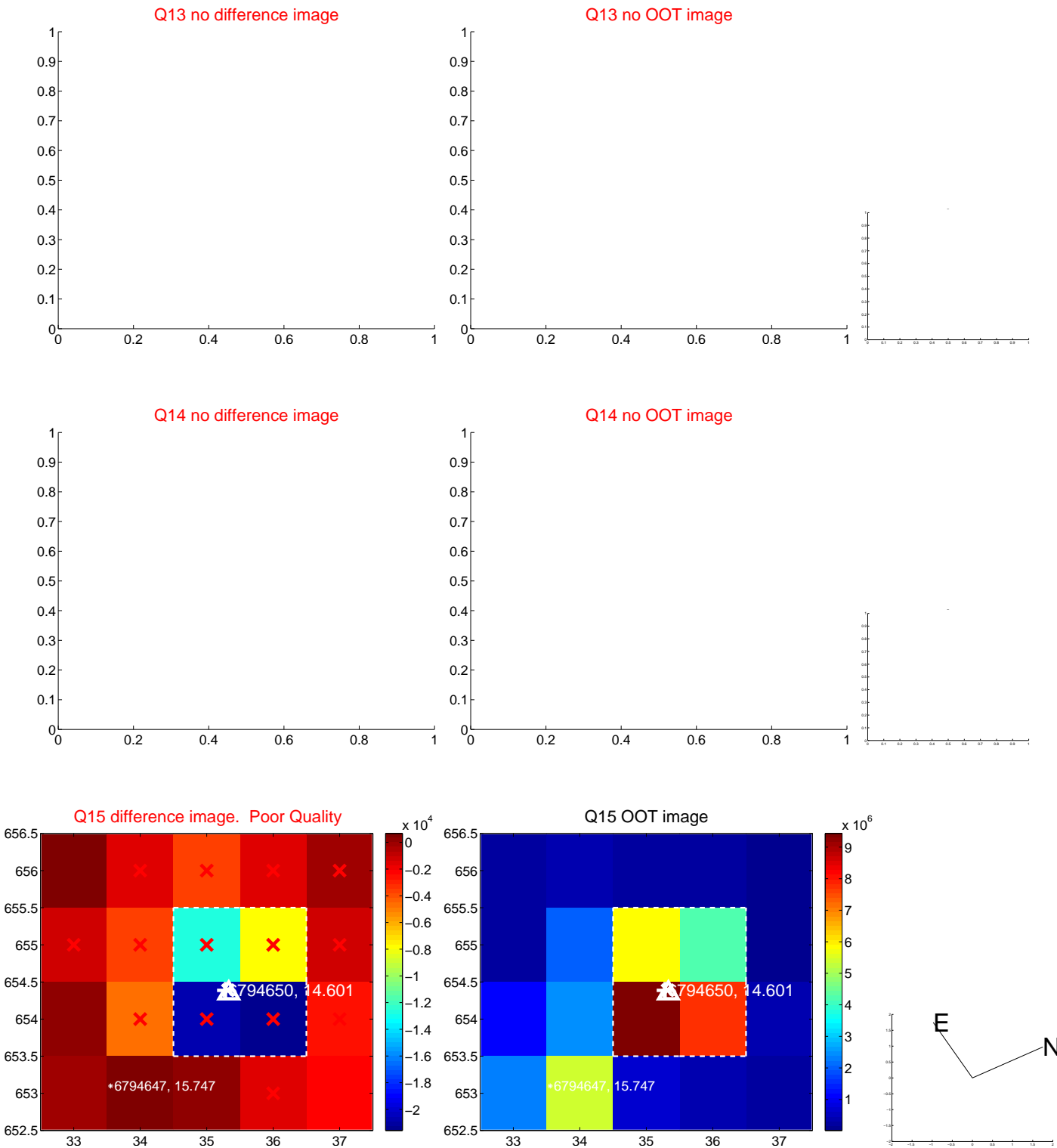
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



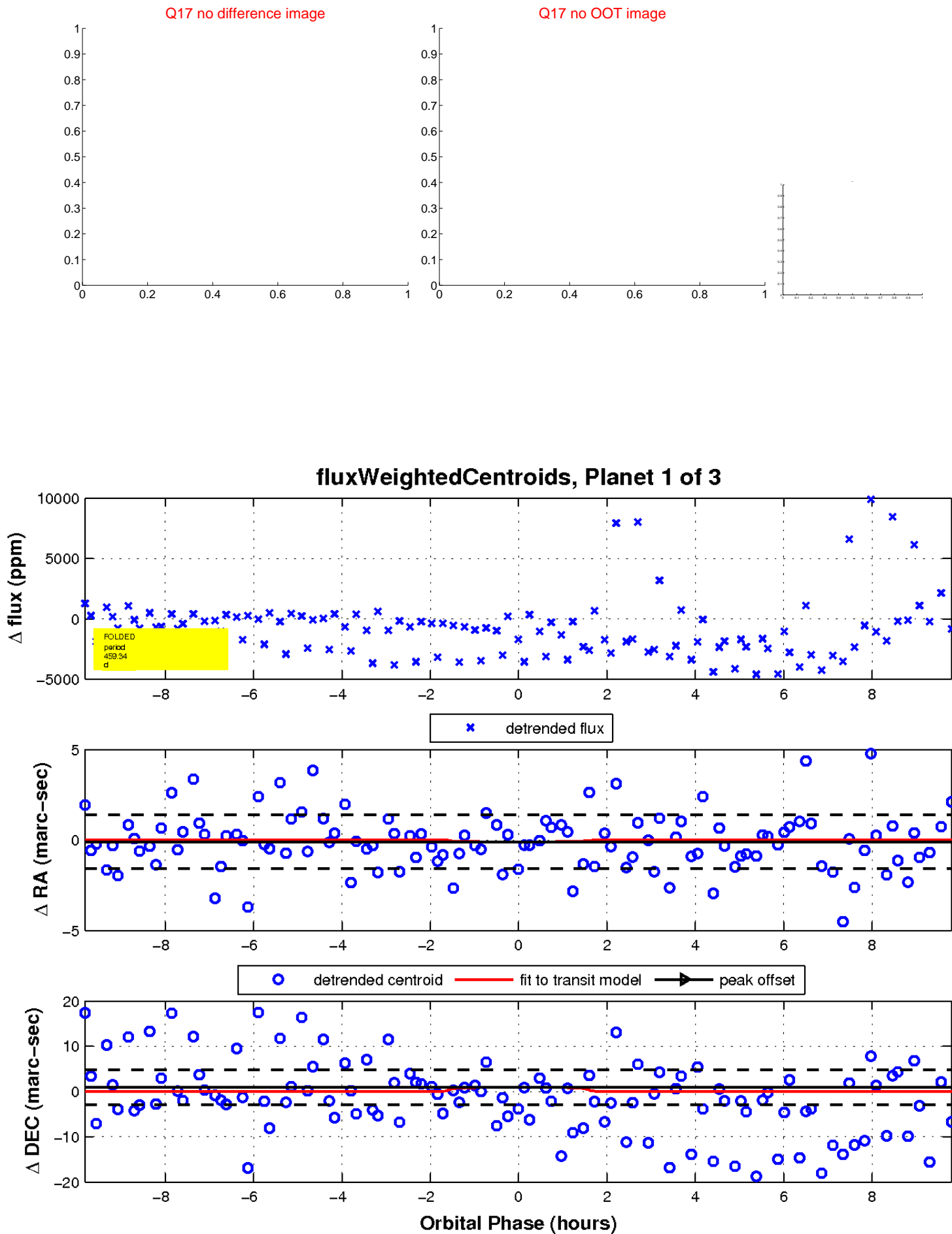
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

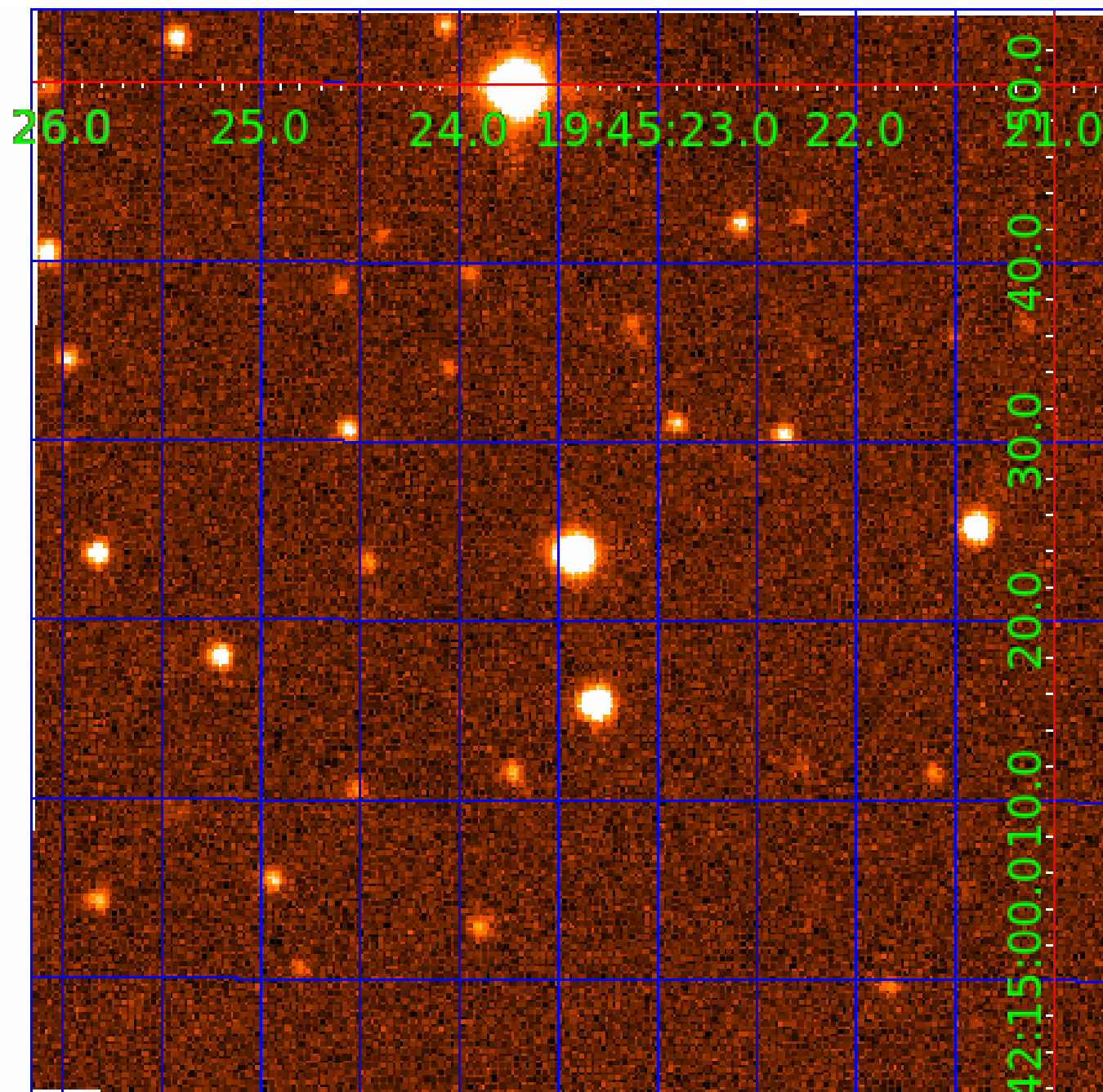


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006794650

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

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006794650-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006794650-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

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

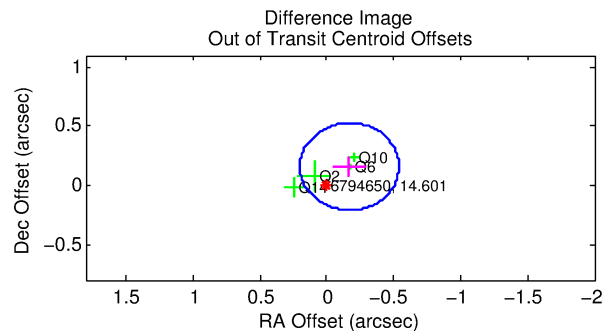
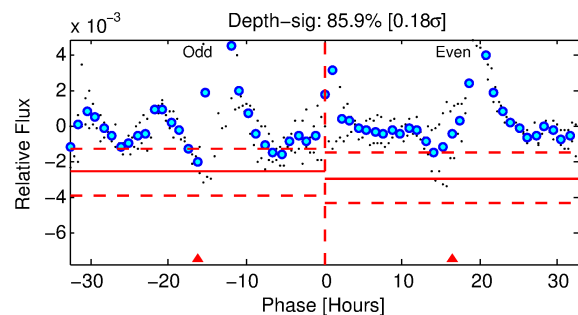
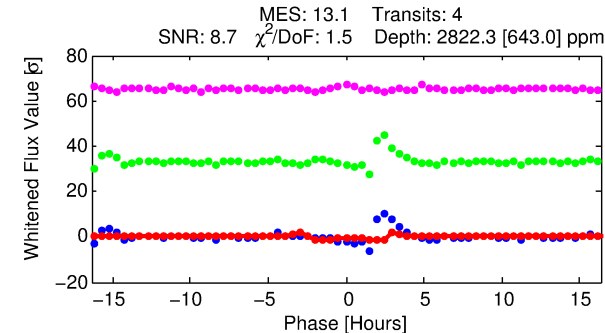
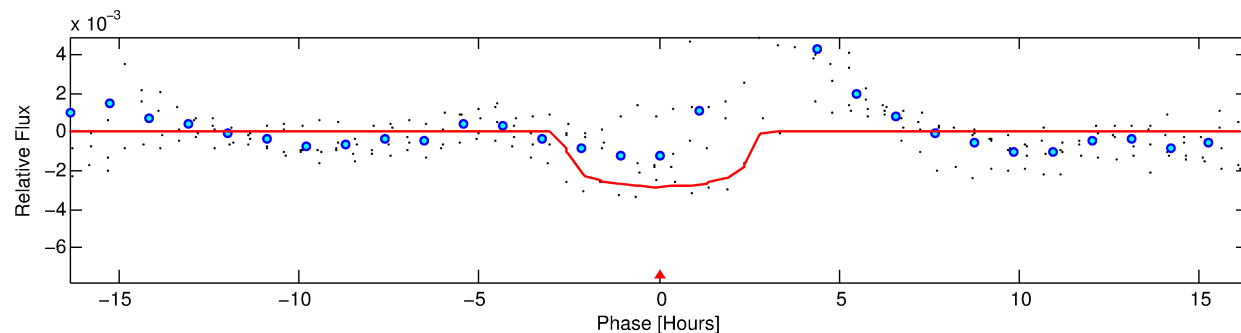
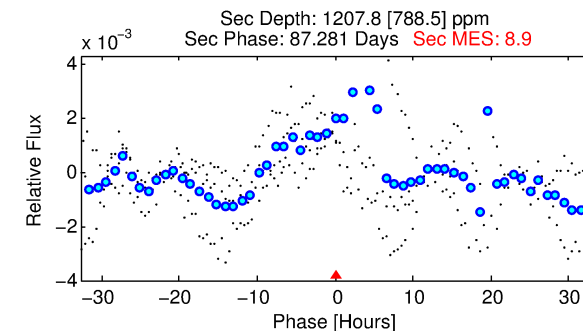
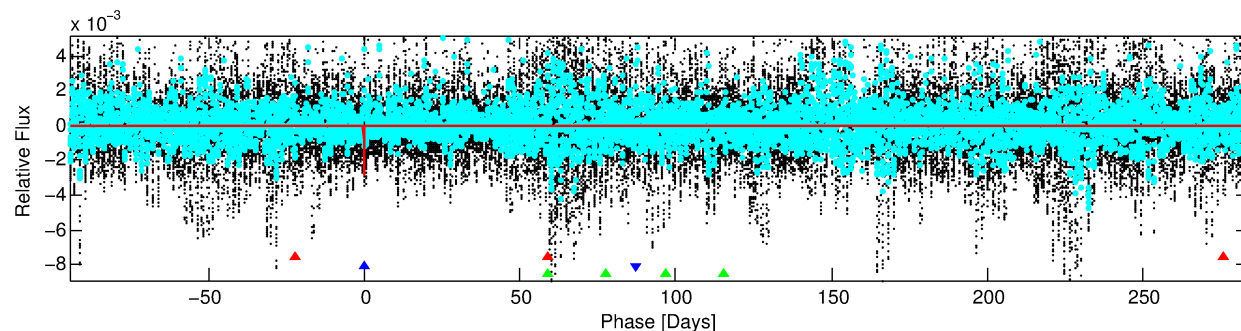
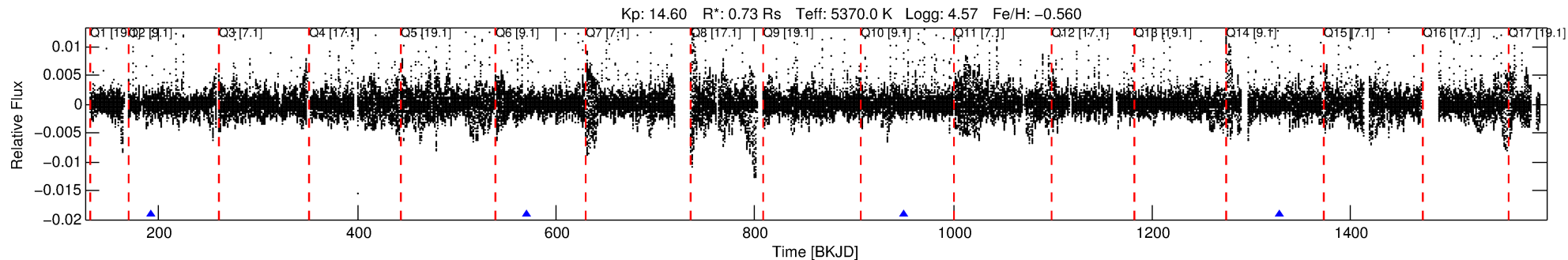
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006794650-02

No Significant Match Found

DV One-Page Summary

KIC: 6794650 Candidate: 2 of 3 Period: 378.513 d



DV Fit Results:

Period = 378.51305 [0.00308] d
Epoch = 192.5933 [0.0058] BKJD
Rp/R* = 0.0483 [0.0219]
a/R* = 543.71 [906.12]
b = 0.22 [7.37]
Seff = 0.47 [0.09]
Teq = 211 [10] K
Rp = 3.83 [1.81] Re
a = 0.9157 [0.0978] AU
Ag = 37974.03 [42839.86] [0.89σ]
Teff = 4556 [1281] K [3.39σ]

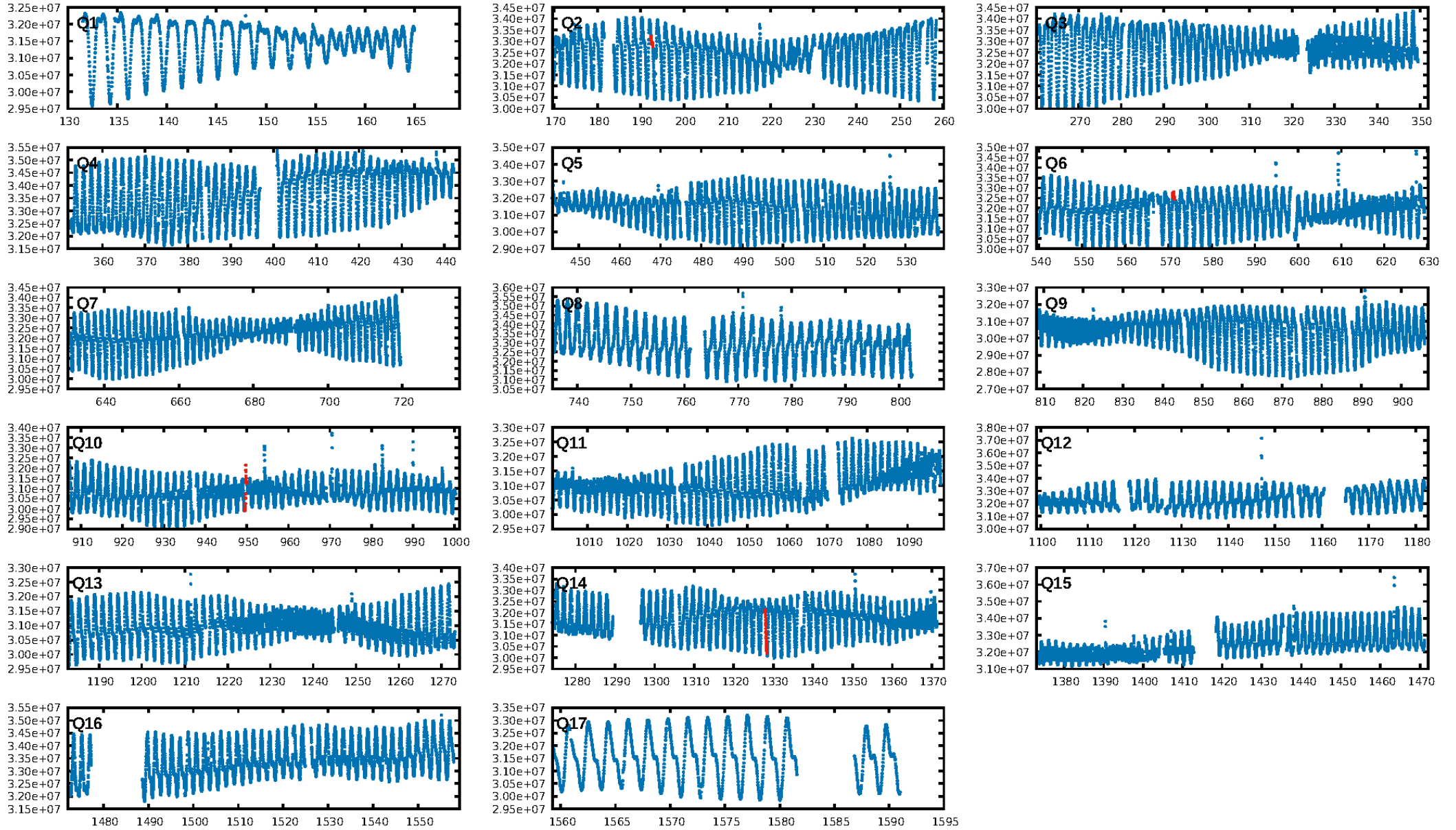
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [72.12σ]
LongPeriod-sig: 100.0% [304.10σ]
ModelChiSquare2-sig: 47.0%
ModelChiSquareGof-sig: 36.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.83
Centroid-sig: 9.3%
Centroid-so: 1.111 arcsec [0.77σ]
OotOffset-rm: 0.232 arcsec [1.88σ]
OotOffset-st: 4/0/0/0 [4]
KicOffset-rm: 0.176 arcsec [1.37σ]
KicOffset-st: 4/0/0/0 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

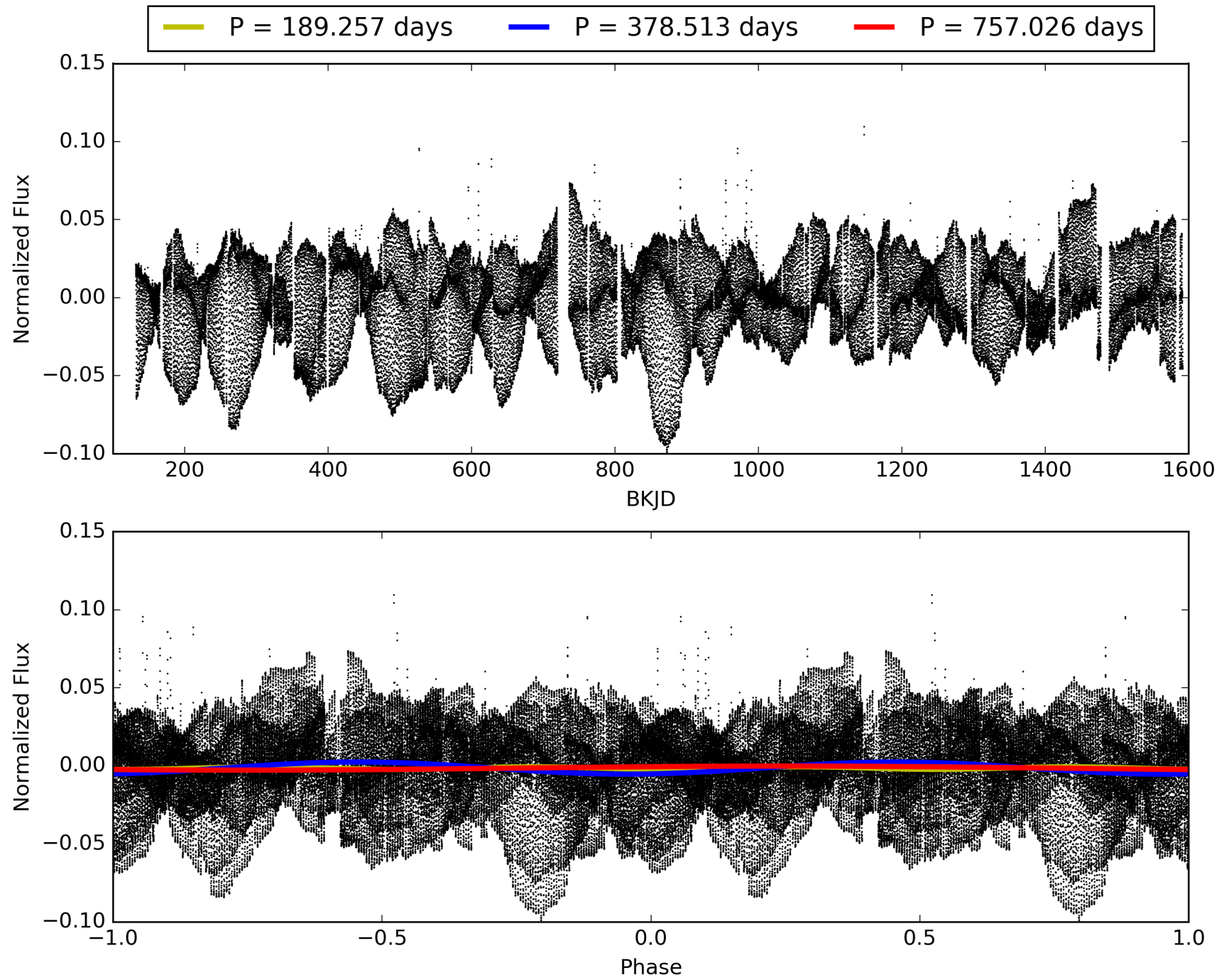
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:49:29 Z

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

TCE 006794650-02, PDC Light Curves

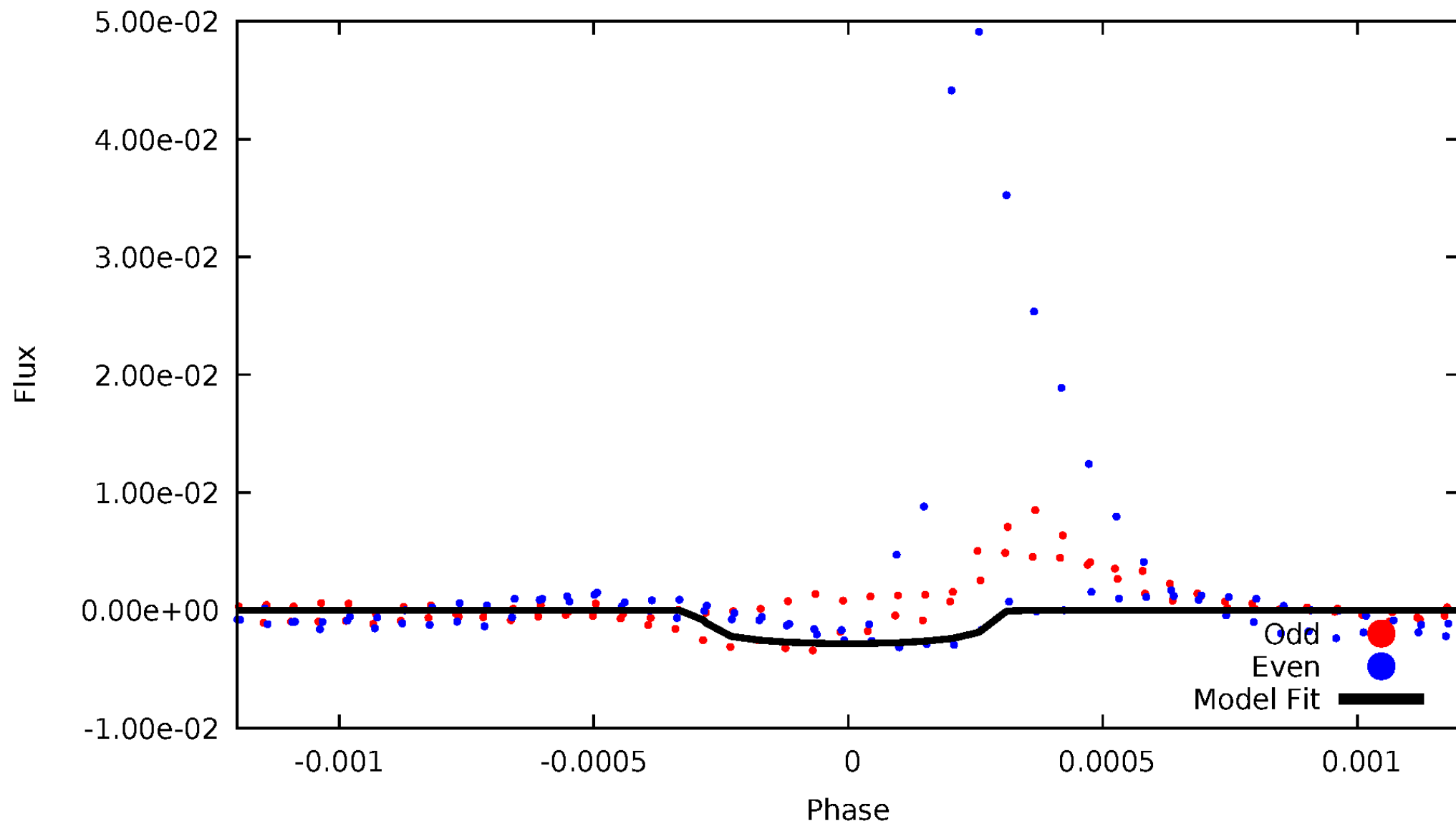


TCE 006794650-02



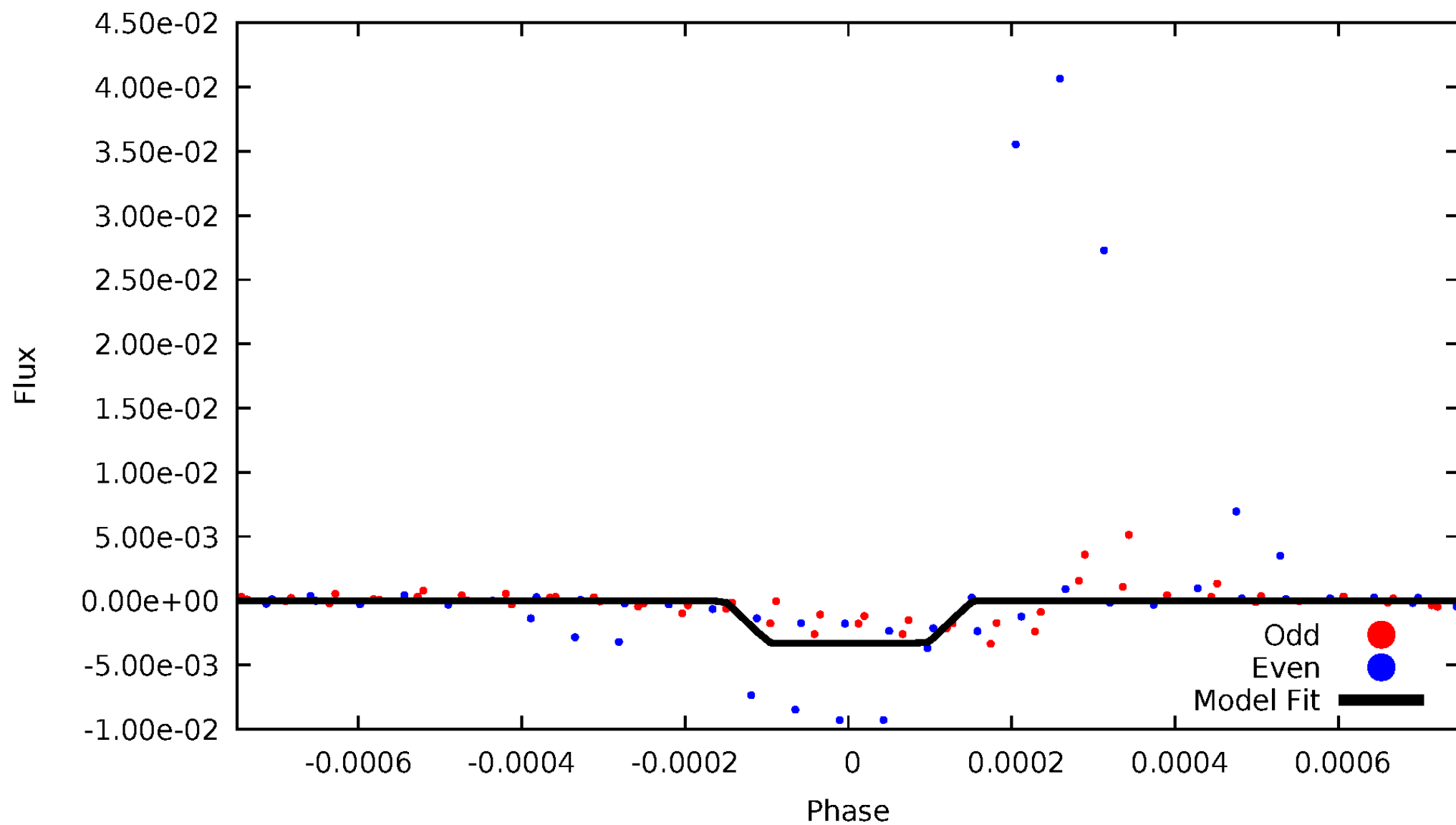
DV Odd/Even

TCE 006794650-02



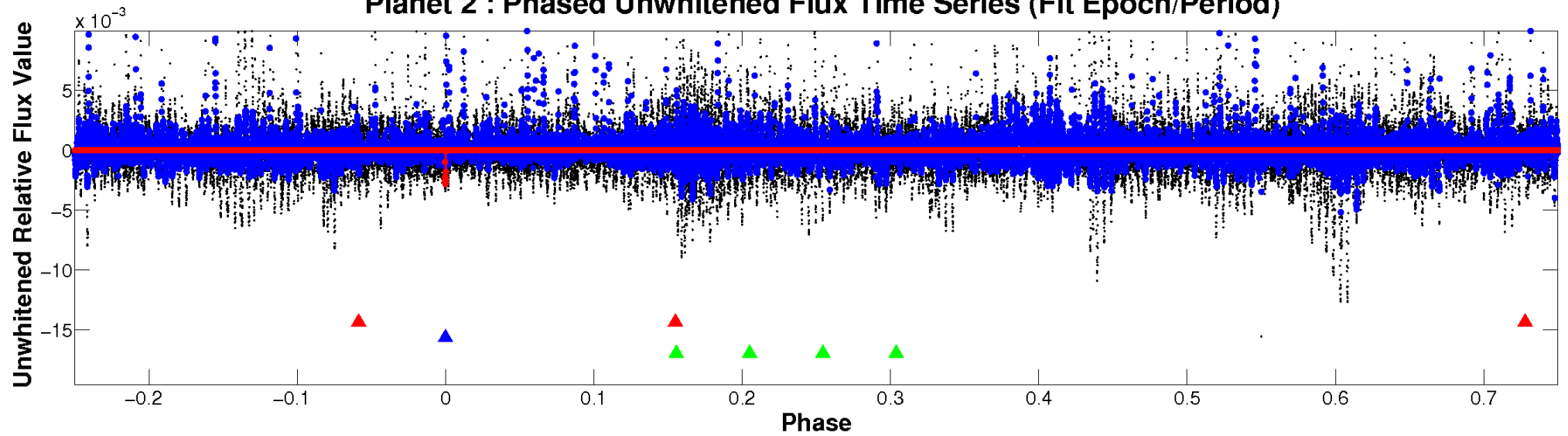
ALT Odd/Even

TCE 006794650-02

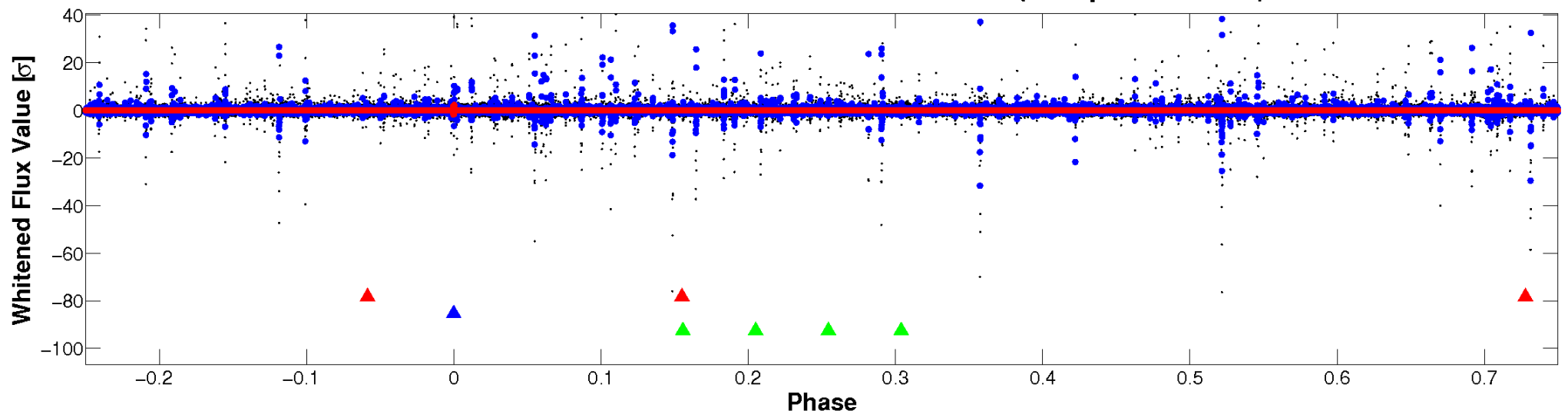


Non-Whitened Vs. Whitened Light Curve

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

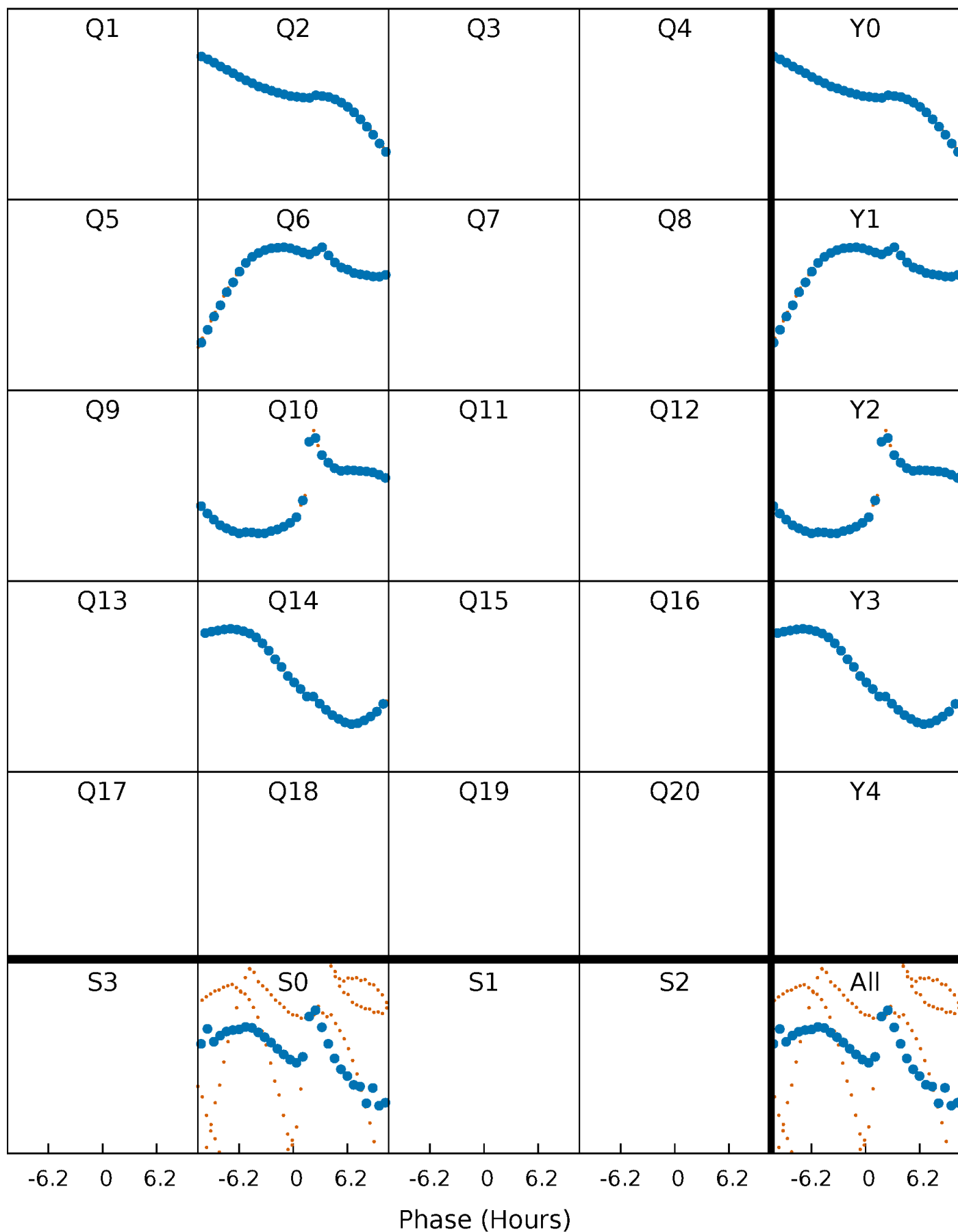


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



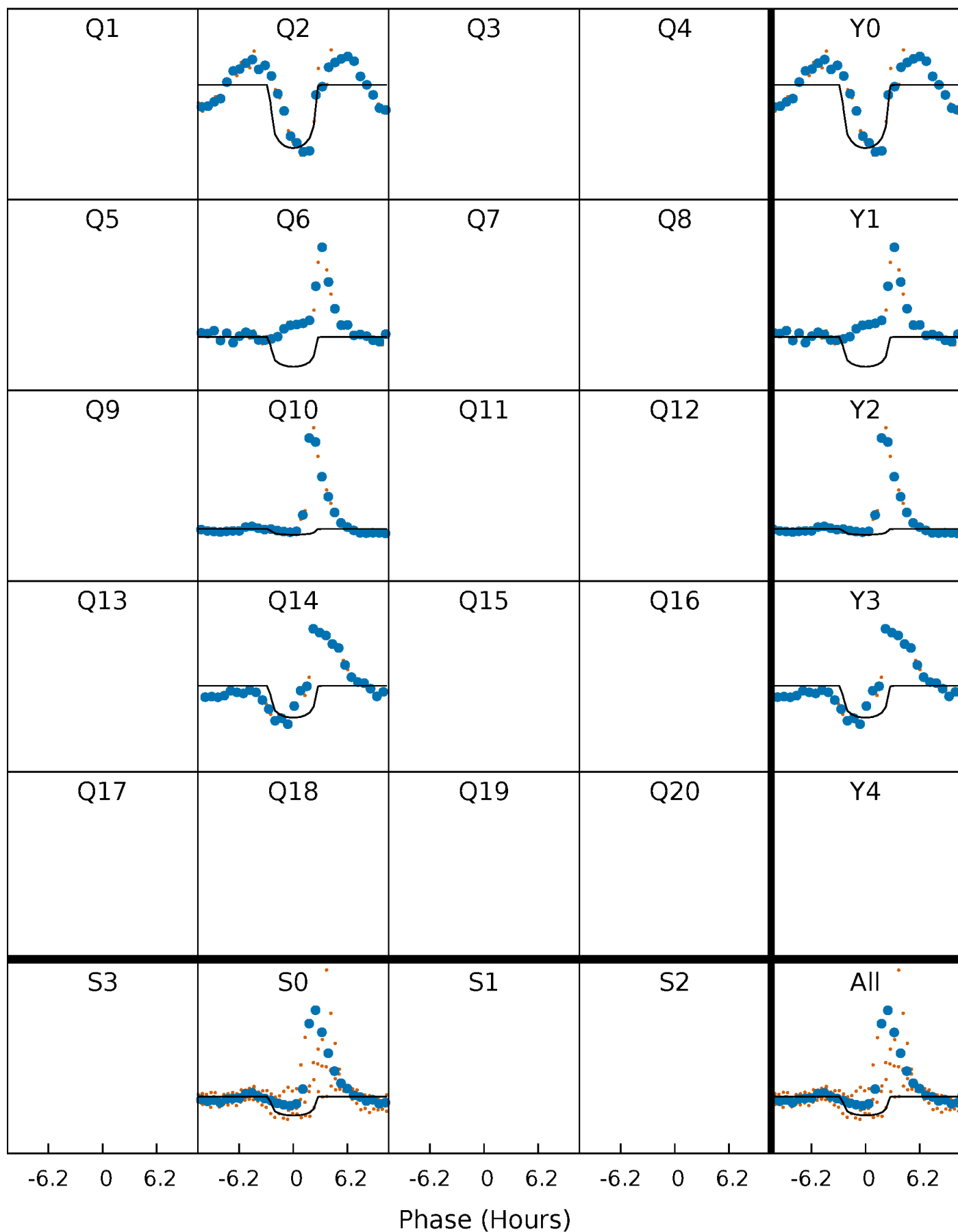
PDC Quarter-Phased Transit Curves

TCE 006794650-02 P=378.513045 Days $T_0=192.593345$ (BKJD)



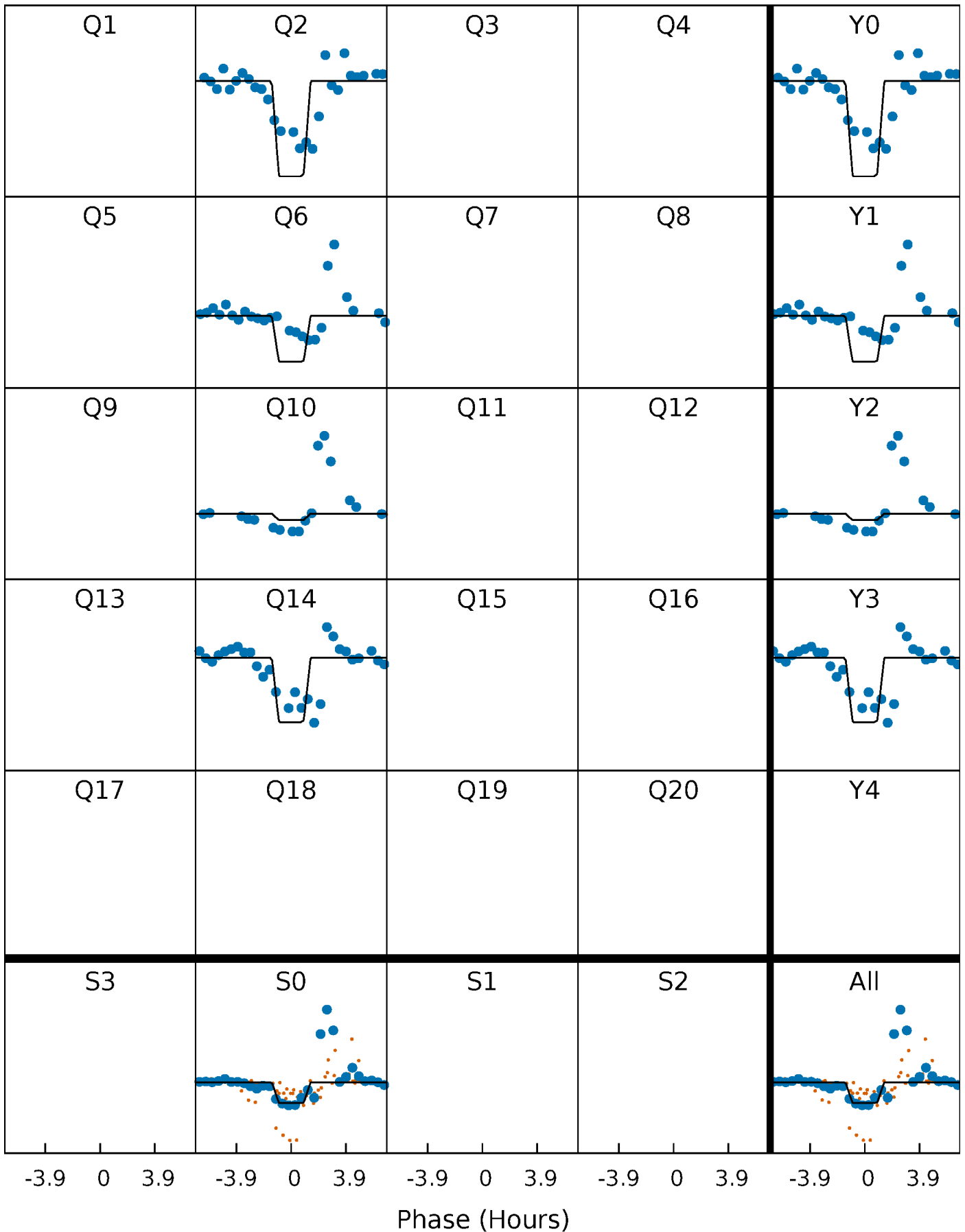
DV Quarter-Phased Transit Curves

TCE 006794650-02 P=378.513045 Days $T_0=192.593345$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

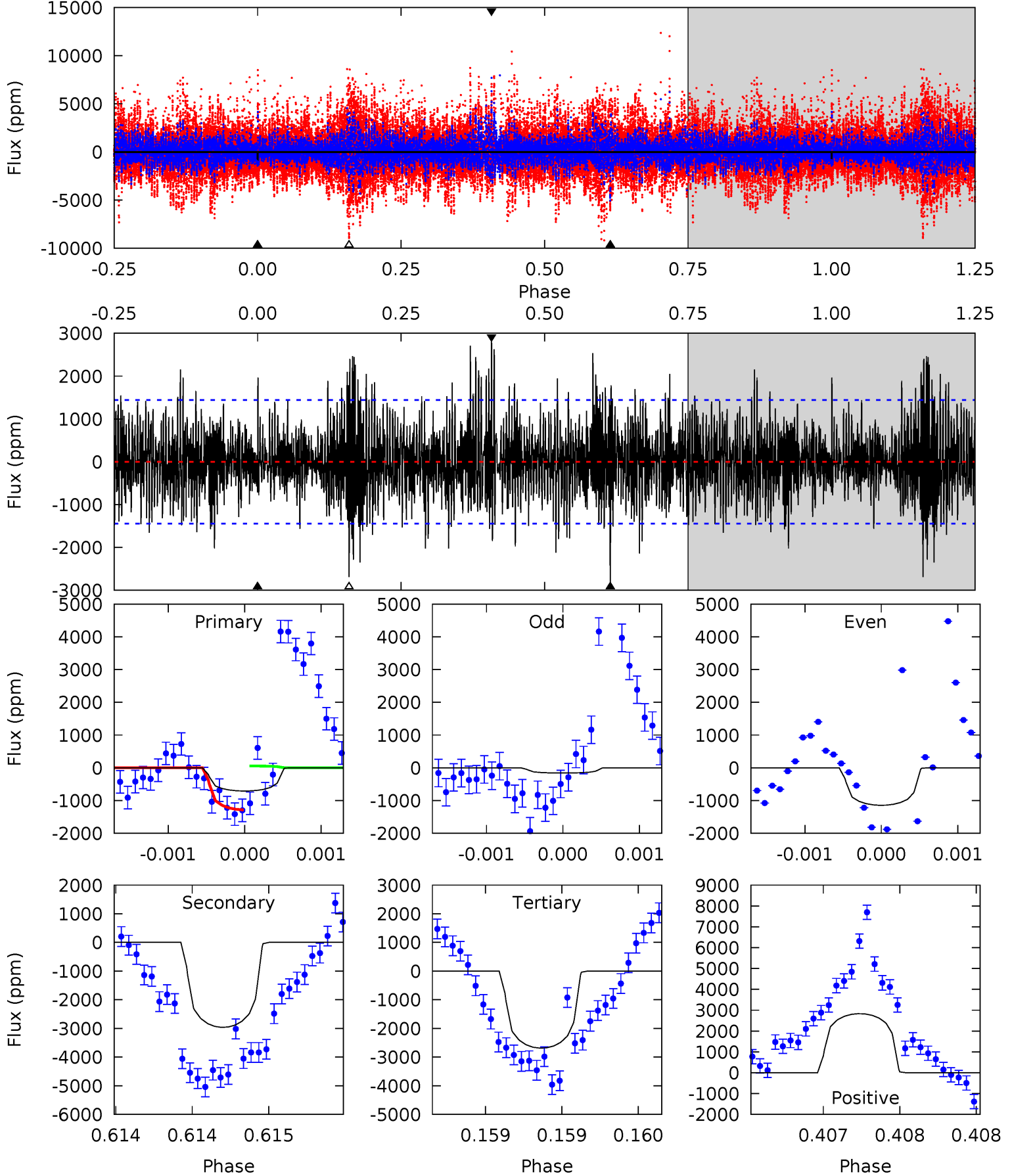
TCE 006794650-02 P=378.503190 Days $T_0=192.612243$ (BKJD)



DV Model-Shift Uniqueness Test

006794650-02, $P = 378.513045$ Days, $E = 192.593345$ Days

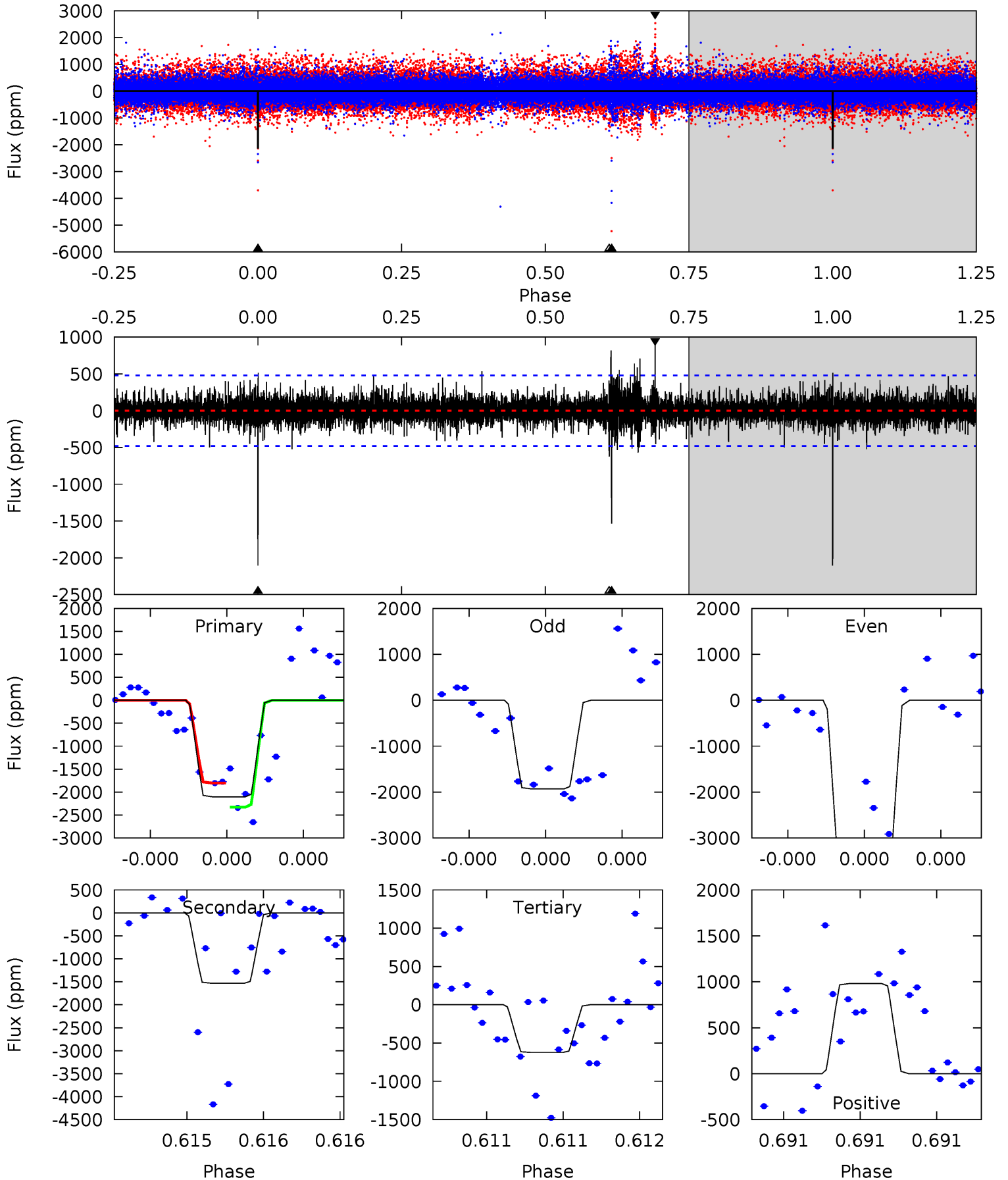
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.72	11.4	10.3	10.9	5.54	3.43	2.51	-7.59	-8.15	1.06	0.50	1.71	-10.4	0.49	2.36



Alt Model-Shift Uniqueness Test

006794650-02, P = 378.503190 Days, E = 192.612243 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.8	18.1	7.34	11.6	5.66	3.61	1.35	17.5	13.2	10.7	6.50	12.2	1.56	0.32	3.08



Stellar Parameters For KIC 006794650

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5370^{+160}_{-160}	$4.569^{+0.077}_{-0.070}$	$-0.560^{+0.350}_{-0.300}$	$0.727^{+0.097}_{-0.071}$	$0.714^{+0.090}_{-0.045}$	$2.619^{+0.826}_{-0.627}$
	+3%/-3%	+2%/-2%	+62%/-54%	+13%/-10%	+13%/-6%	+32%/-24%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006794650-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2963 ± 260	$3.88^{+1.81}_{-1.66}$	294^{+13}_{-12}	5628^{+2065}_{-825}	$92186^{+194244}_{-49509}$
Alt.	-1532 ± 85	$4.44^{+1.95}_{-1.75}$	294^{+12}_{-12}	4597^{+1181}_{-565}	36196^{+64266}_{-18752}

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

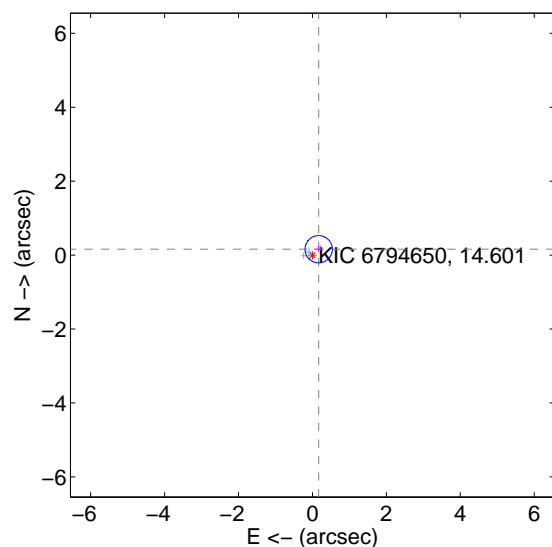
Supplemental centroid analysis for 006794650-02. Kepler magnitude: 14.60. Transit SNR 8.74

There are 3 quarters with good PRF difference image offsets

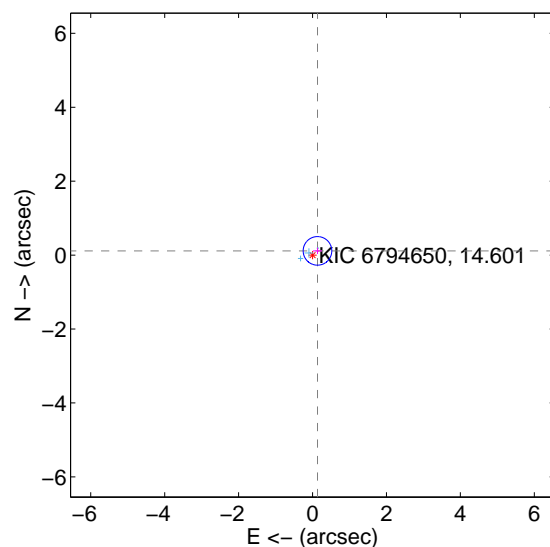
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.232 ± 0.123	1.88	-0.169 ± 0.120	0.159 ± 0.081
PRF-fit source offset from KIC position	0.176 ± 0.129	1.37	-0.134 ± 0.122	0.114 ± 0.085
photometric centroid source offset	1.11 ± 1.45	0.77	0.25 ± 0.39	-1.08 ± 1.48

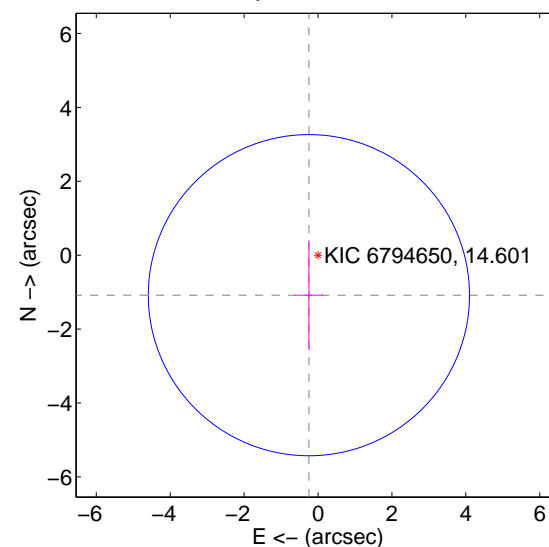
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

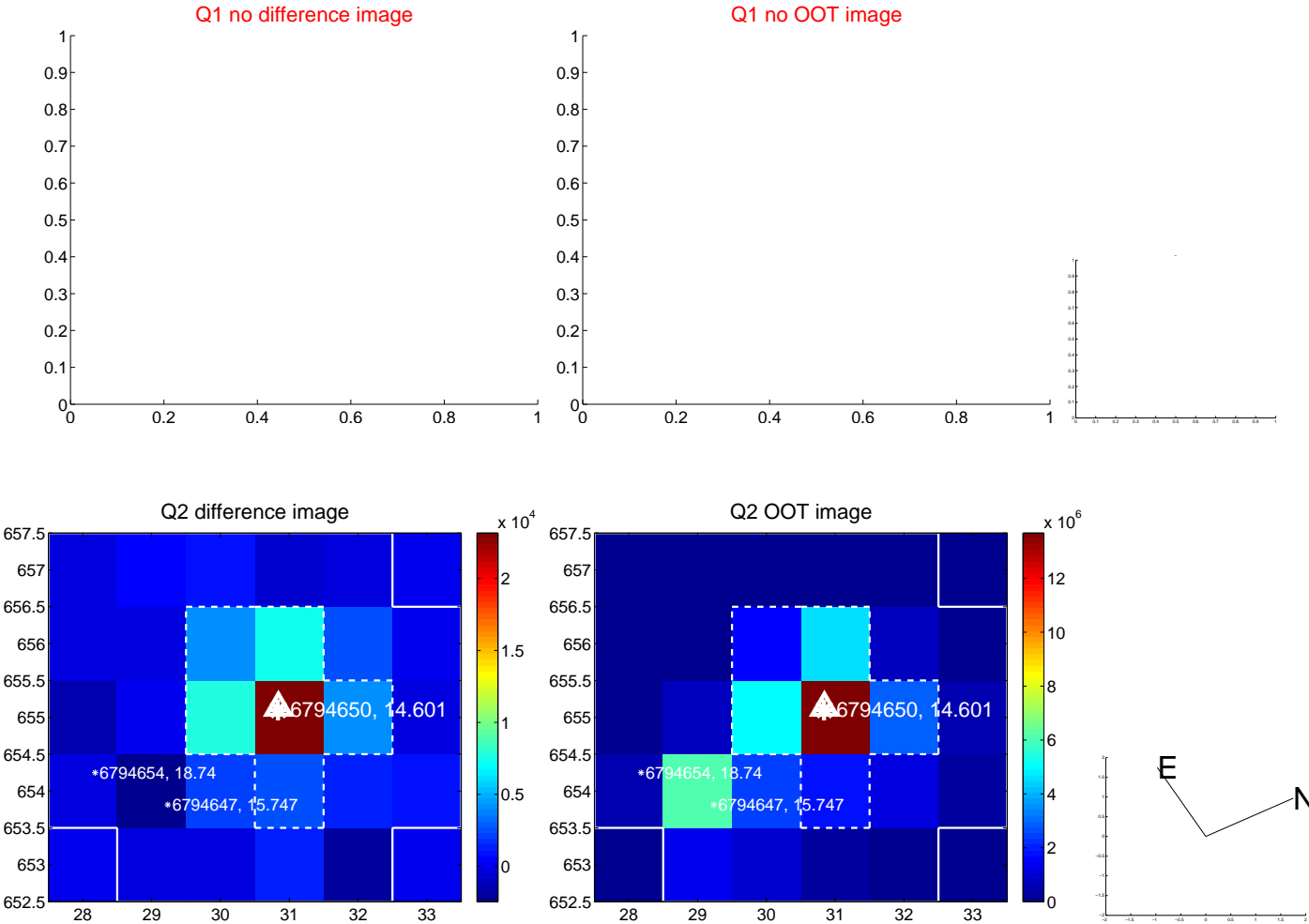


offset from photometric centroids

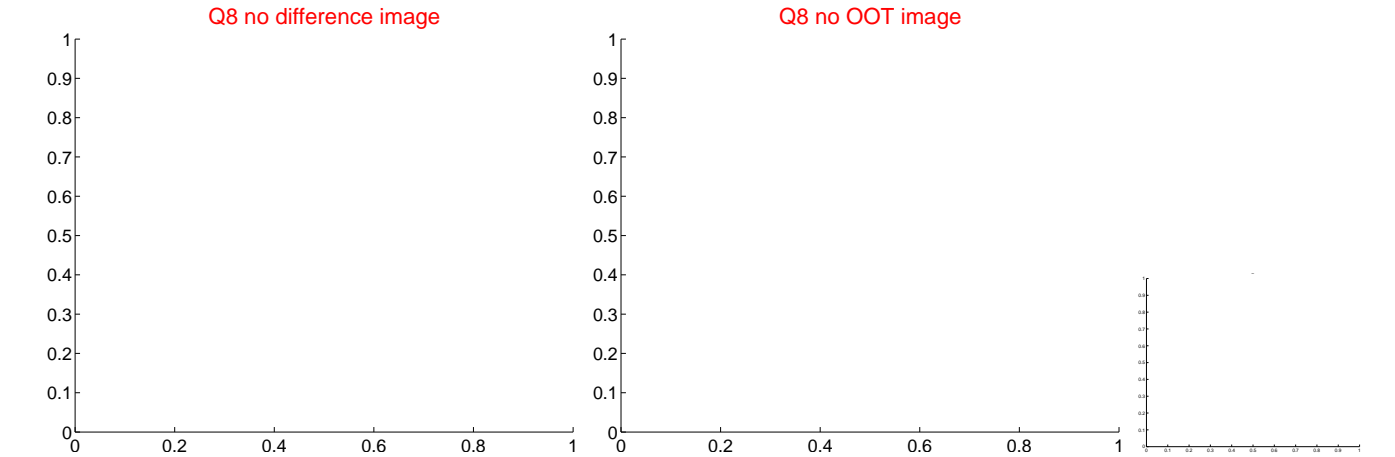
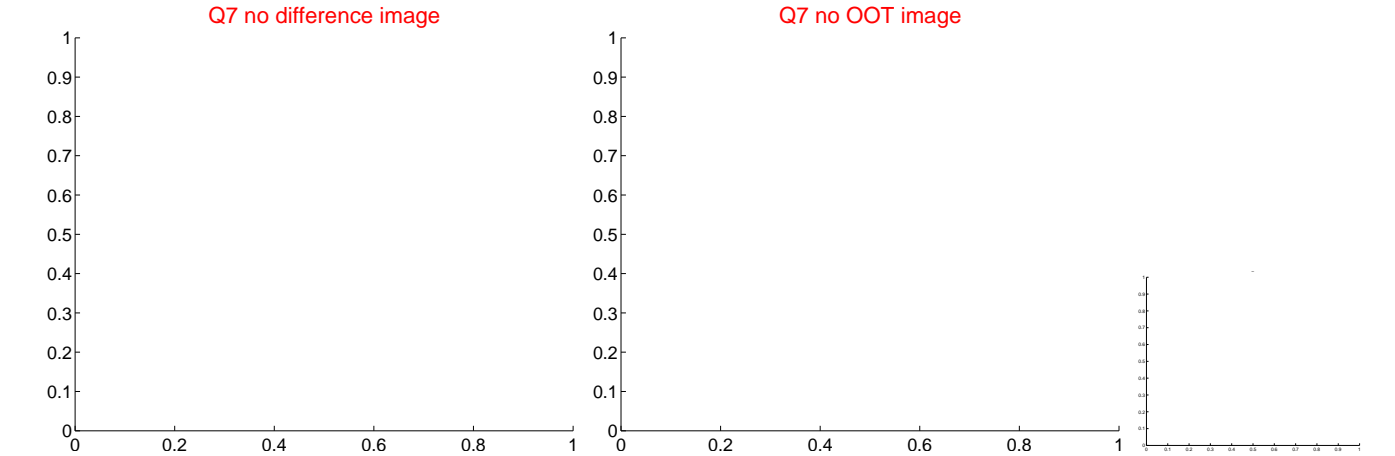
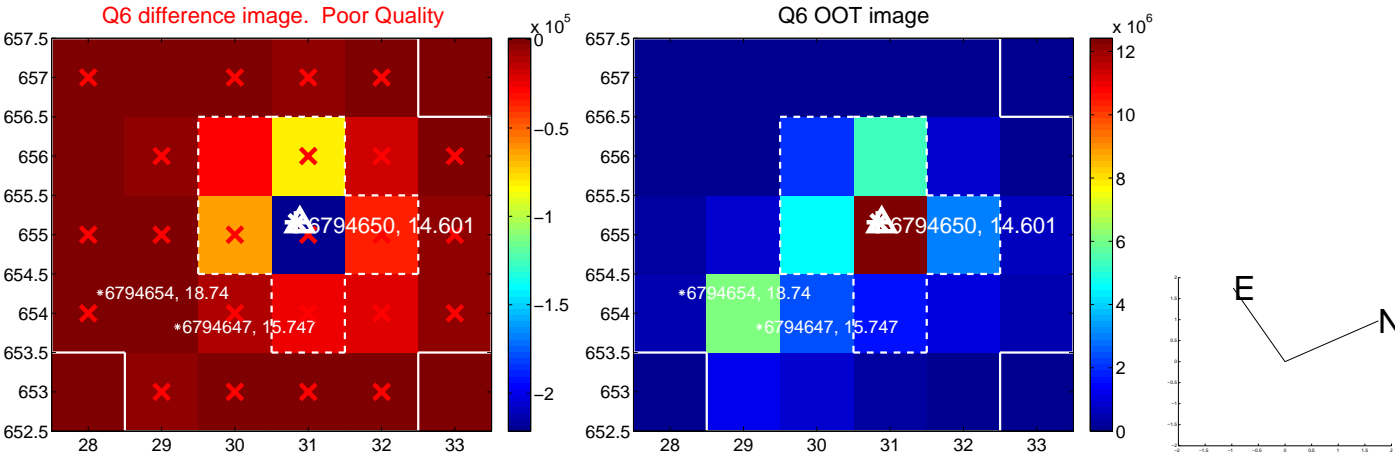
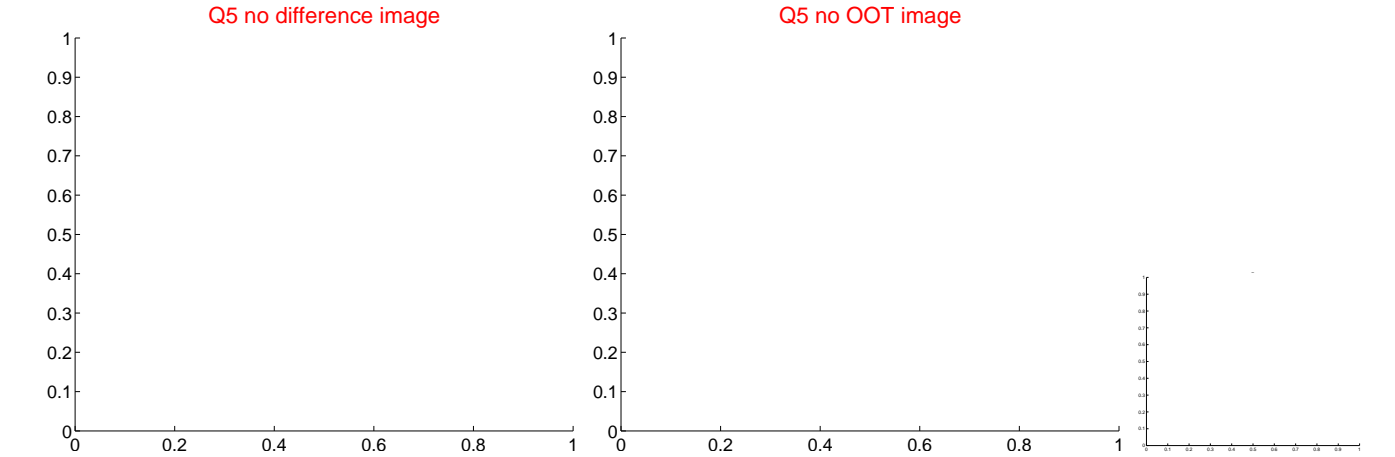


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

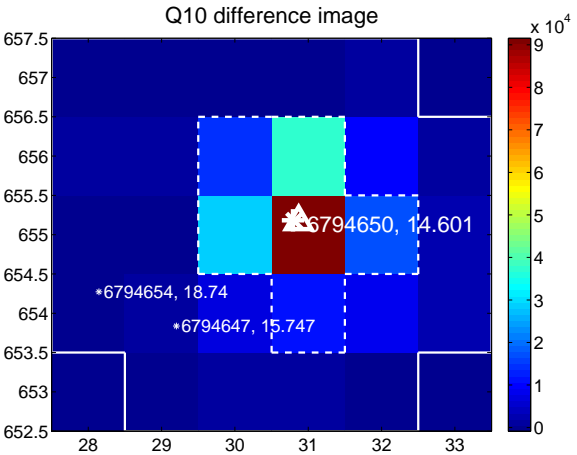
Q9 no difference image



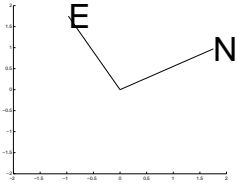
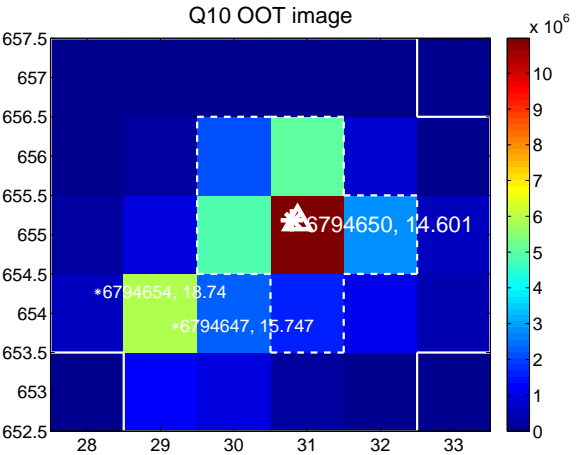
Q9 no OOT image



Q10 difference image



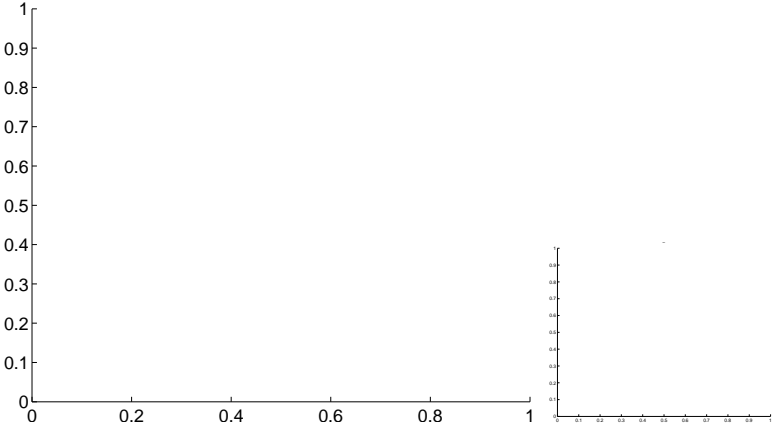
Q10 OOT image



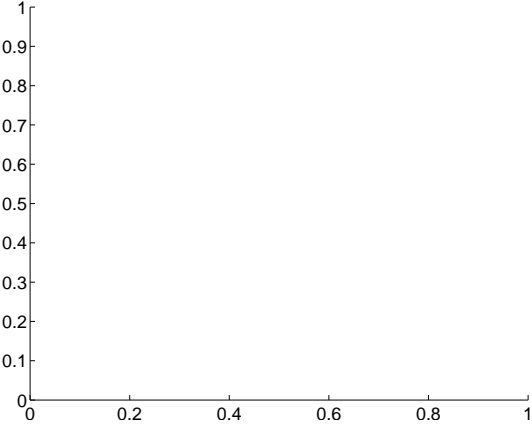
Q11 no difference image



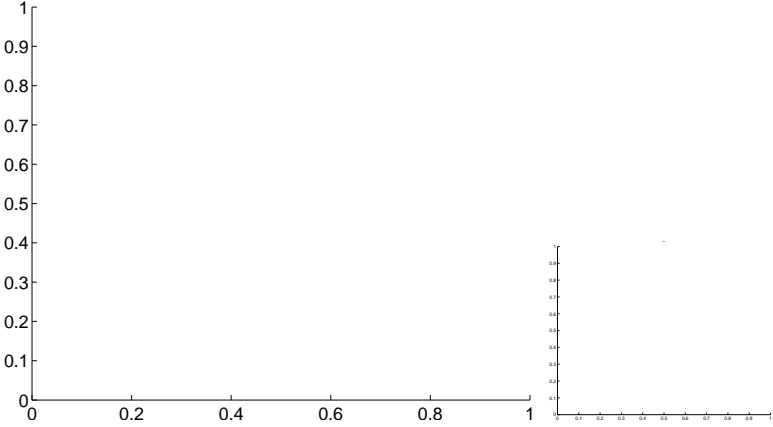
Q11 no OOT image



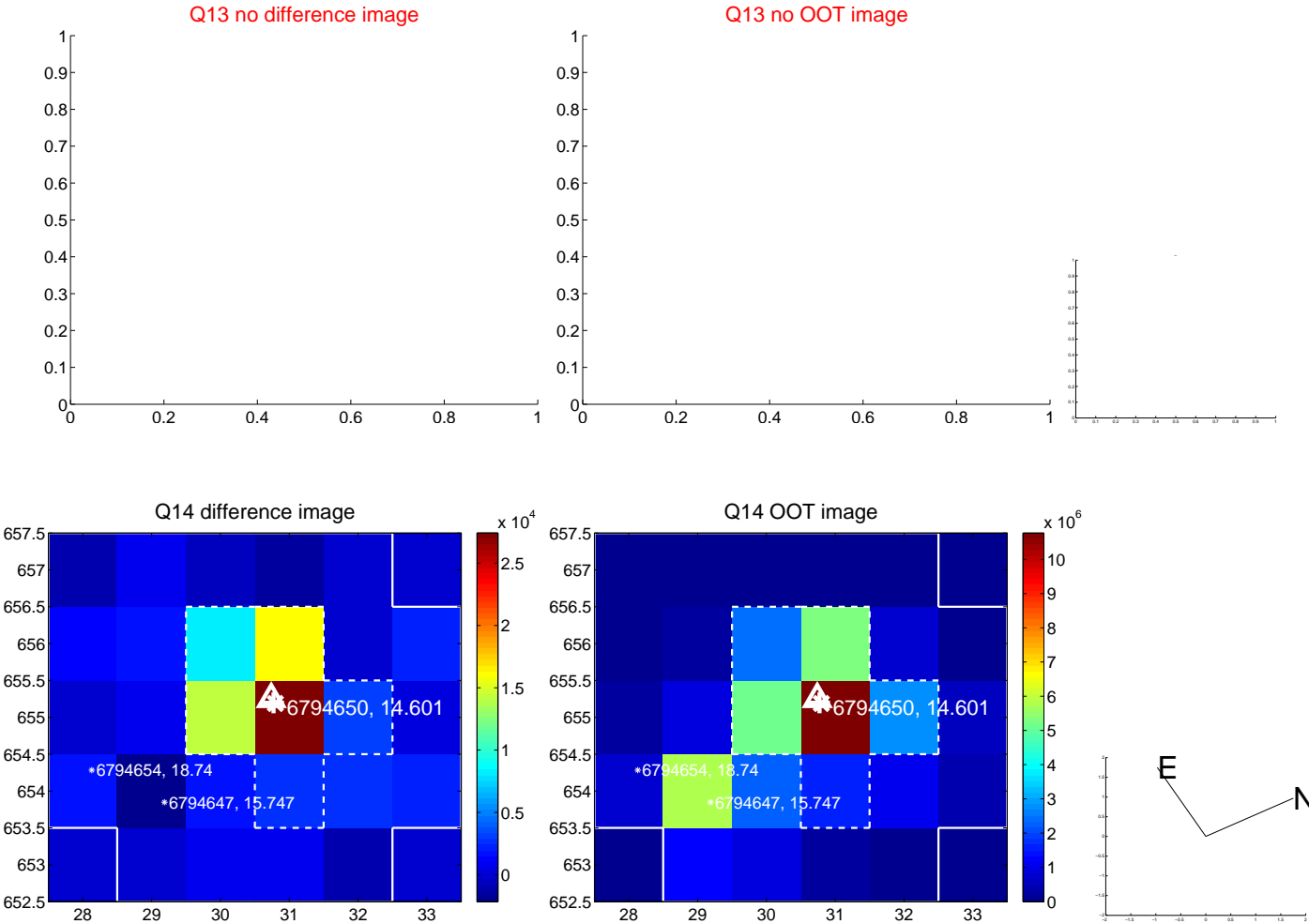
Q12 no difference image



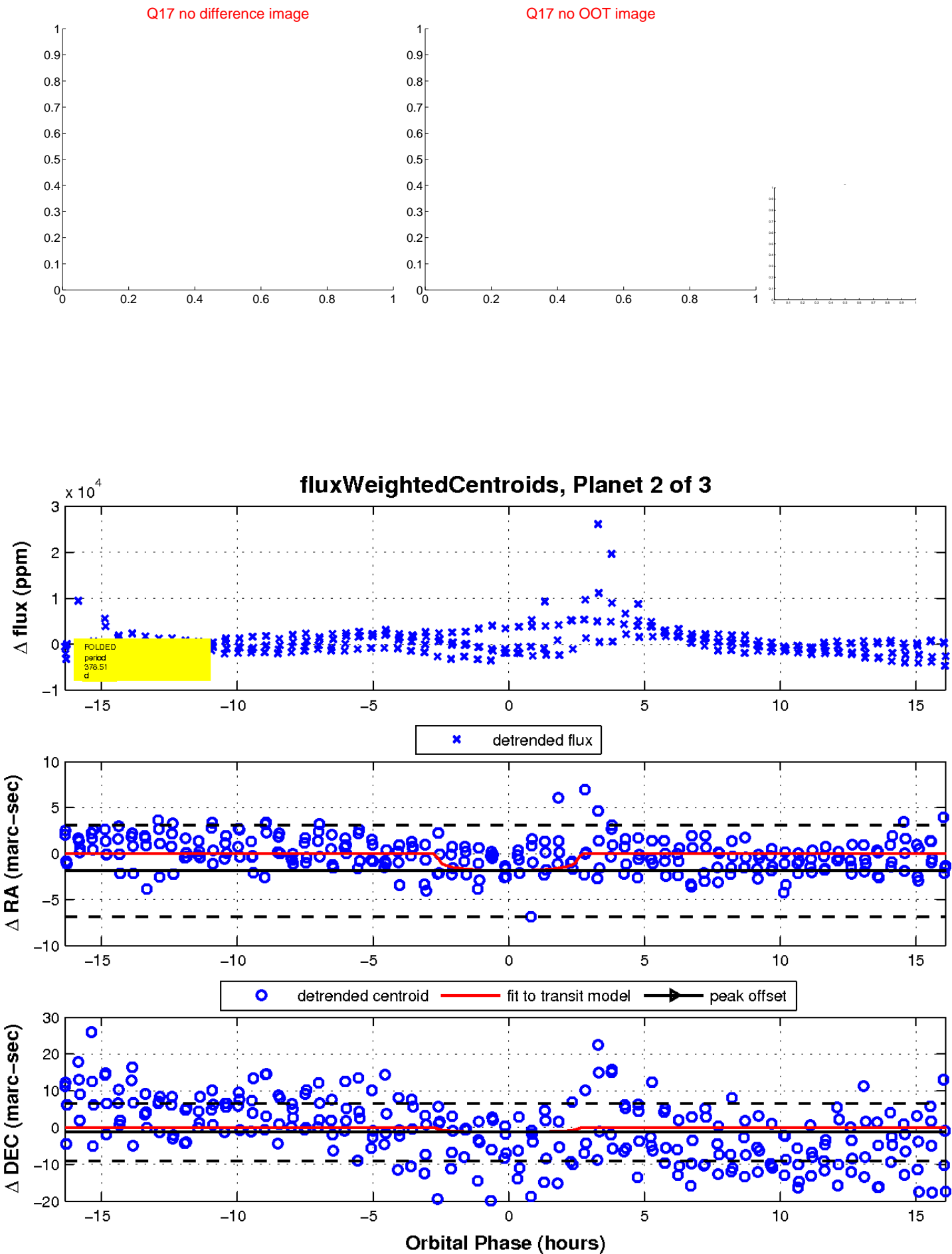
Q12 no OOT image



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

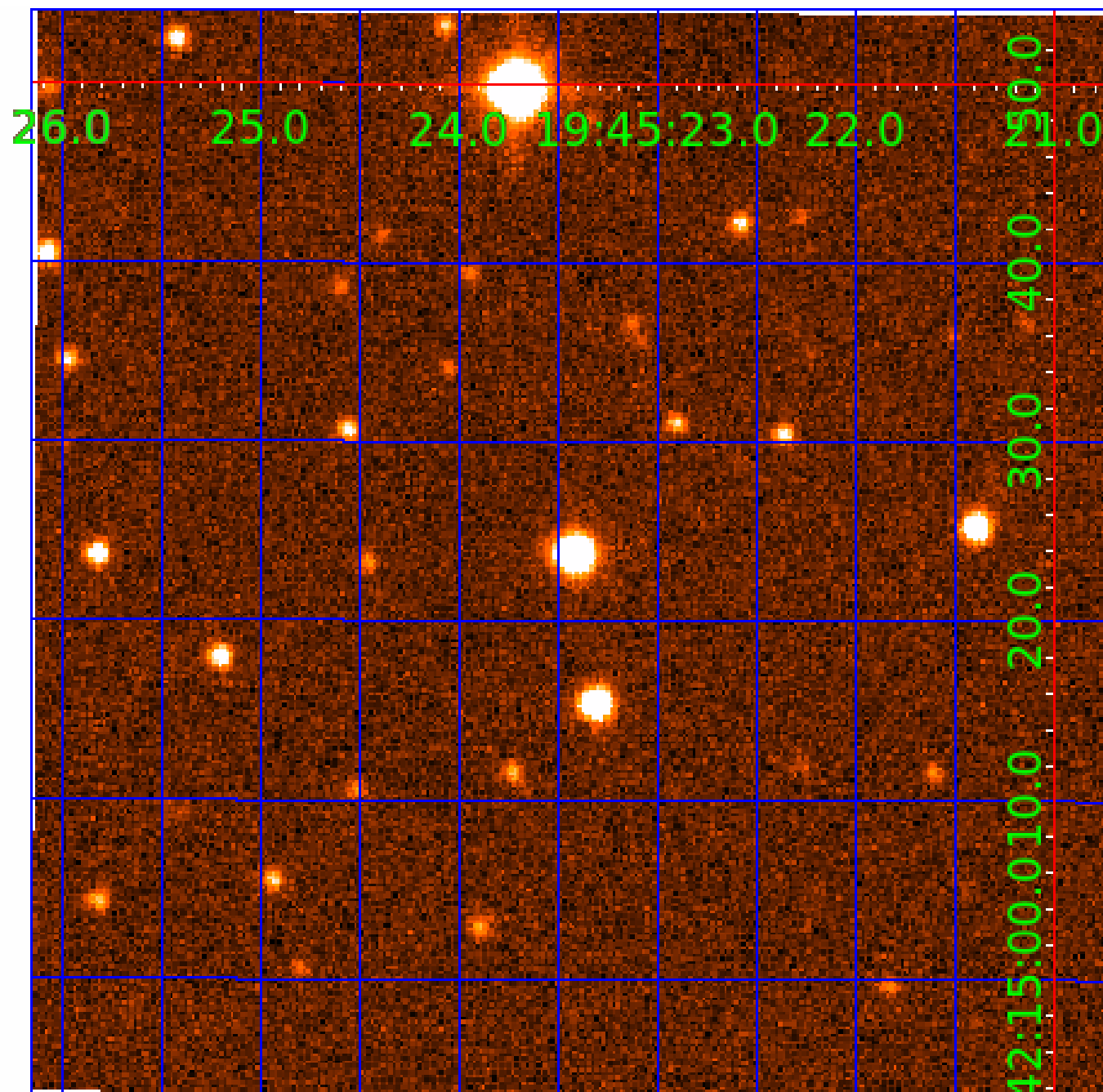


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006794650

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})
006794650-01	OBS	No	459.340995	468.123588	654.9	3.306	16.1	2.2	0.73	5370	1.88	0.36
006794650-02	OBS	No	378.513045	192.593345	2822.3	5.455	13.1	8.7	0.73	5370	3.83	0.47
006794650-03	OBS	No	359.803186	307.638319	1161.0	3.000	14.1	-1.0	0.73	5370	2.45	0.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006794650-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006794650-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006794650-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

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

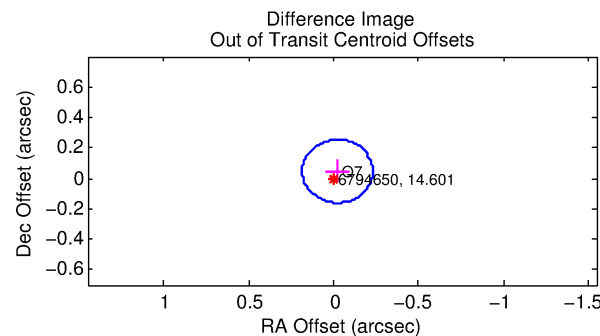
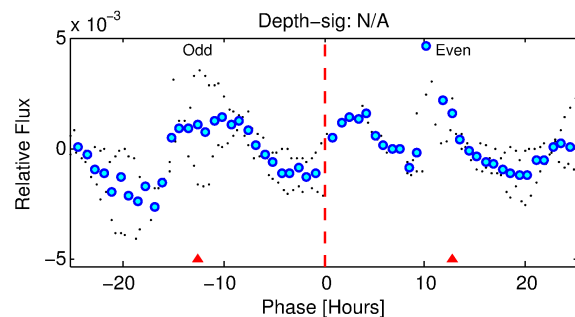
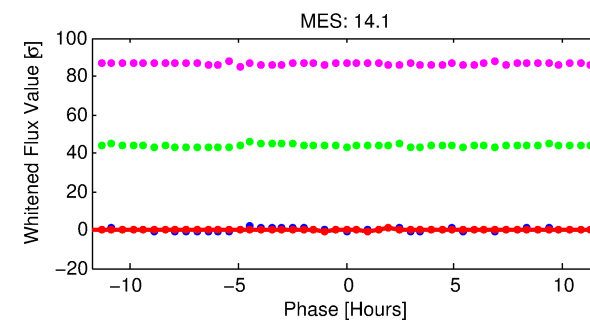
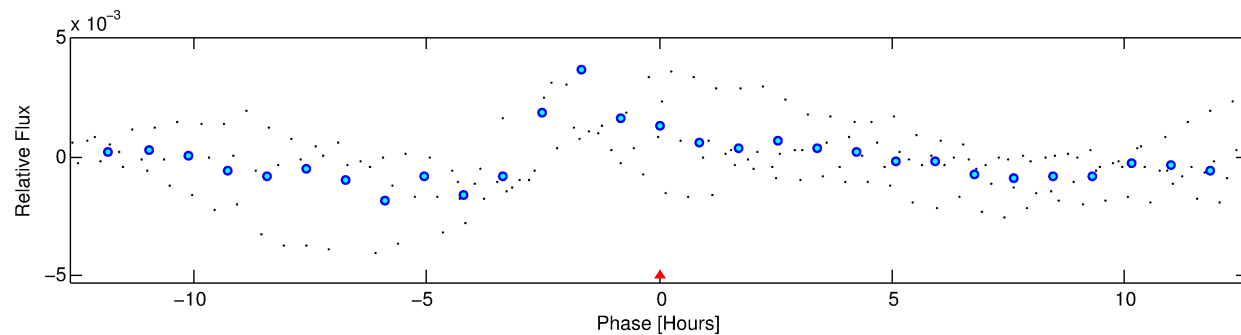
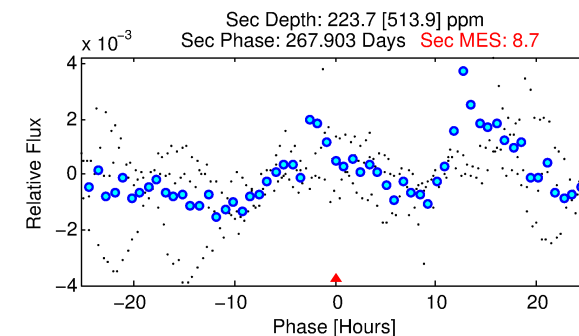
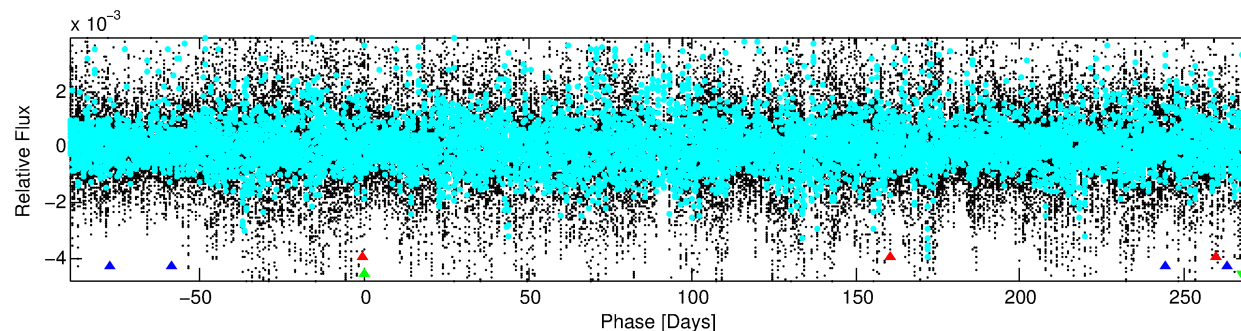
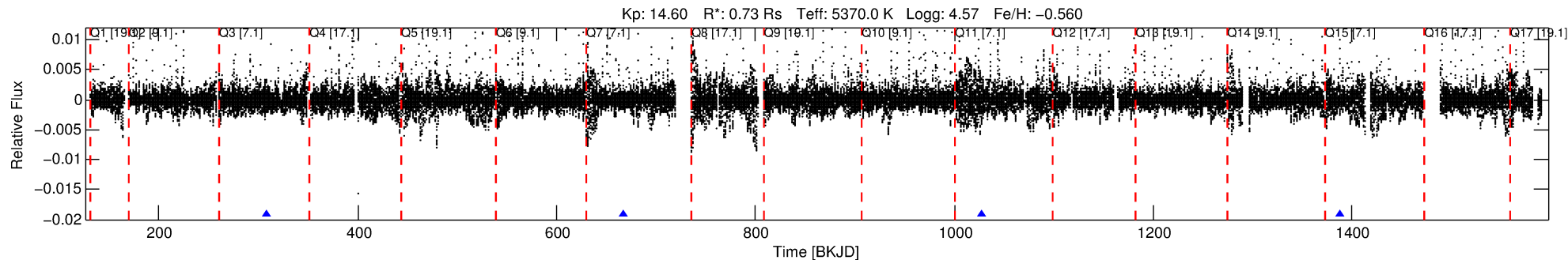
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006794650-03

No Significant Match Found

DV One-Page Summary

KIC: 6794650 Candidate: 3 of 3 Period: 359.803 d



TPS TCE Results:

Period = 359.80319 d
Epoch = 307.6383 BKJD

DV fit results are unavailable

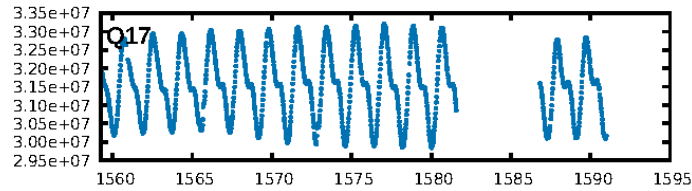
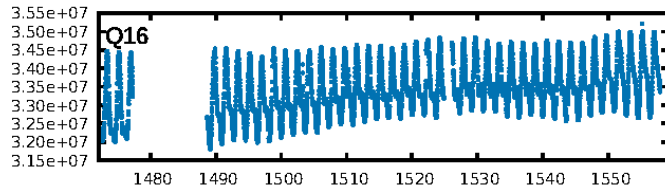
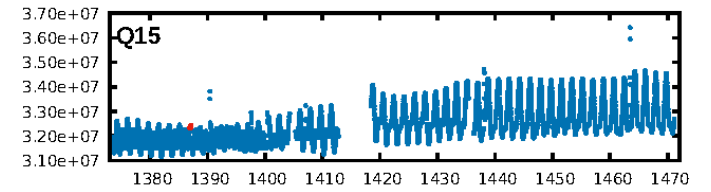
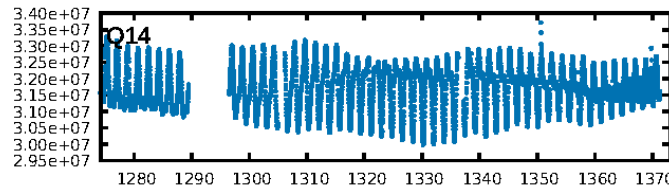
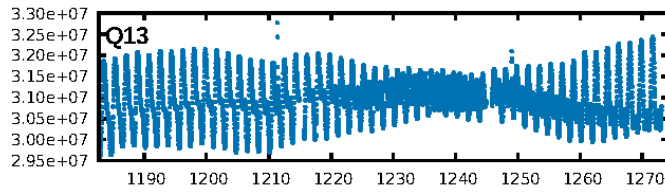
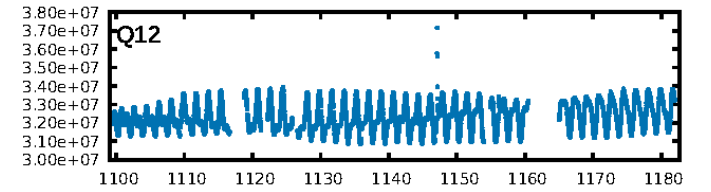
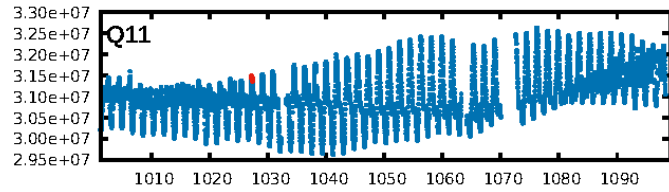
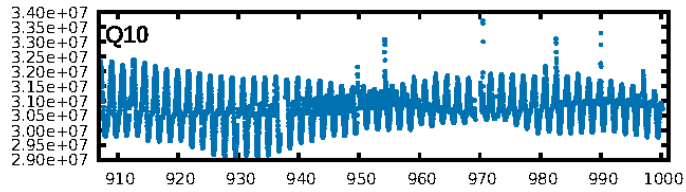
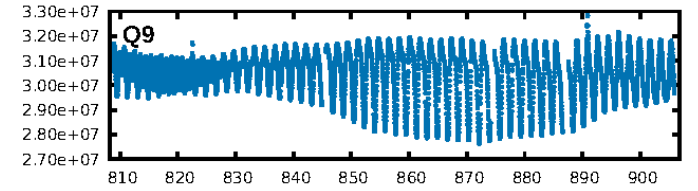
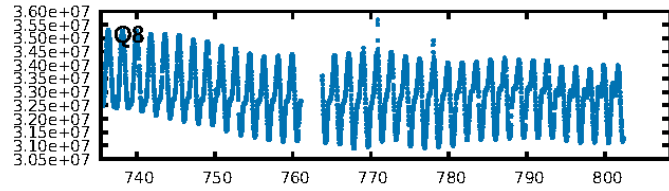
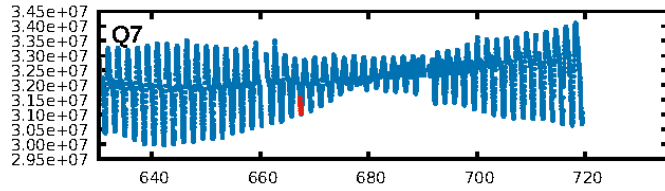
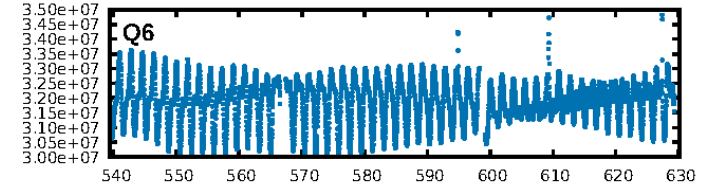
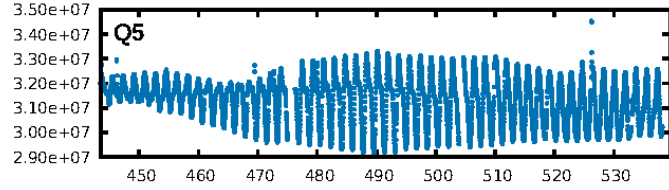
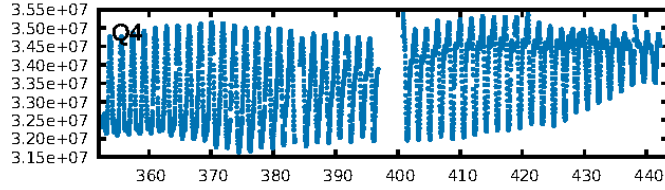
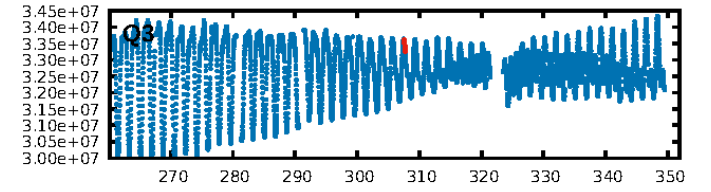
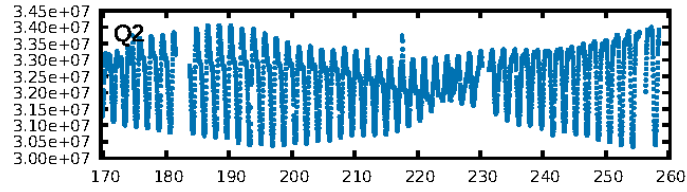
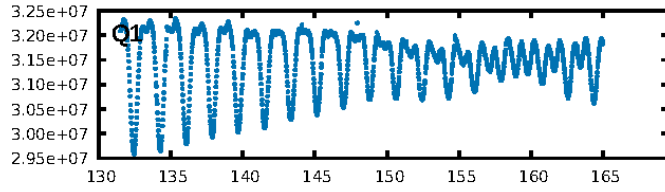
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [72.12 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.5587
Centroid-sig: 13.0%
Centroid-so: 13.190 arcsec [0.93 σ]
OotOffset-rm: 0.052 arcsec [0.75 σ]
KicOffset-rm: 0.059 arcsec [0.85 σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [2/2]

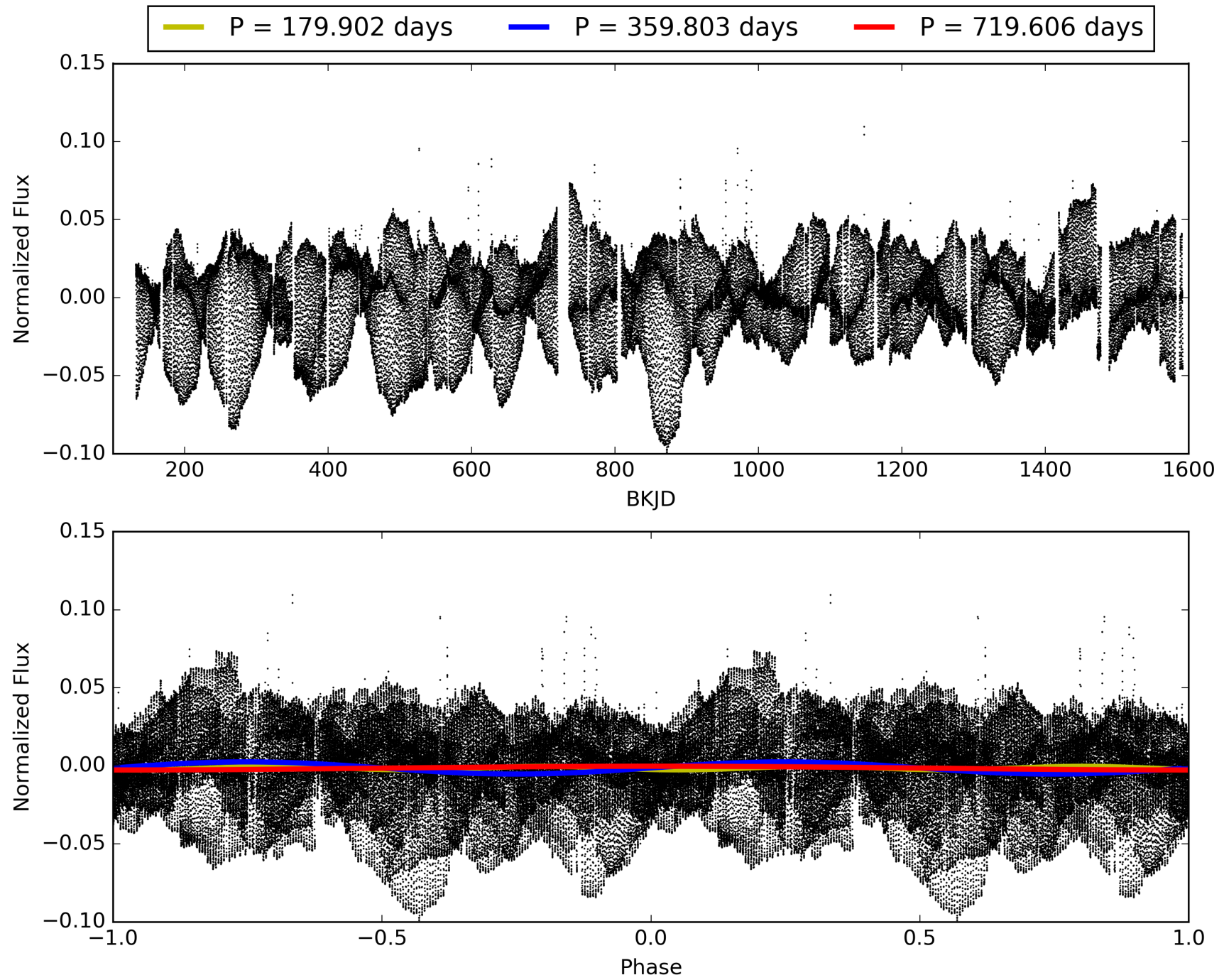
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:49:43 Z

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

TCE 006794650-03, PDC Light Curves

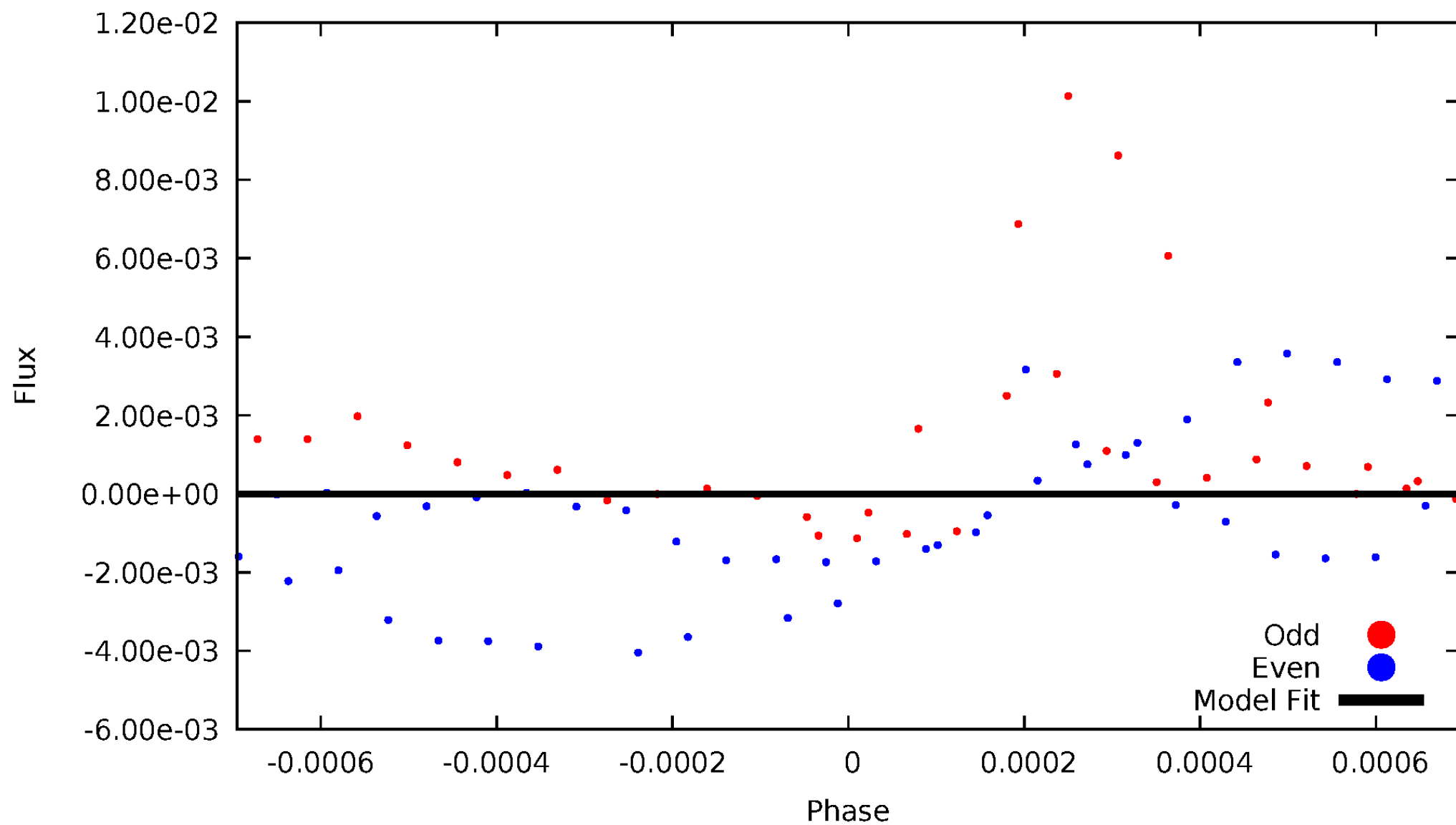


TCE 006794650-03



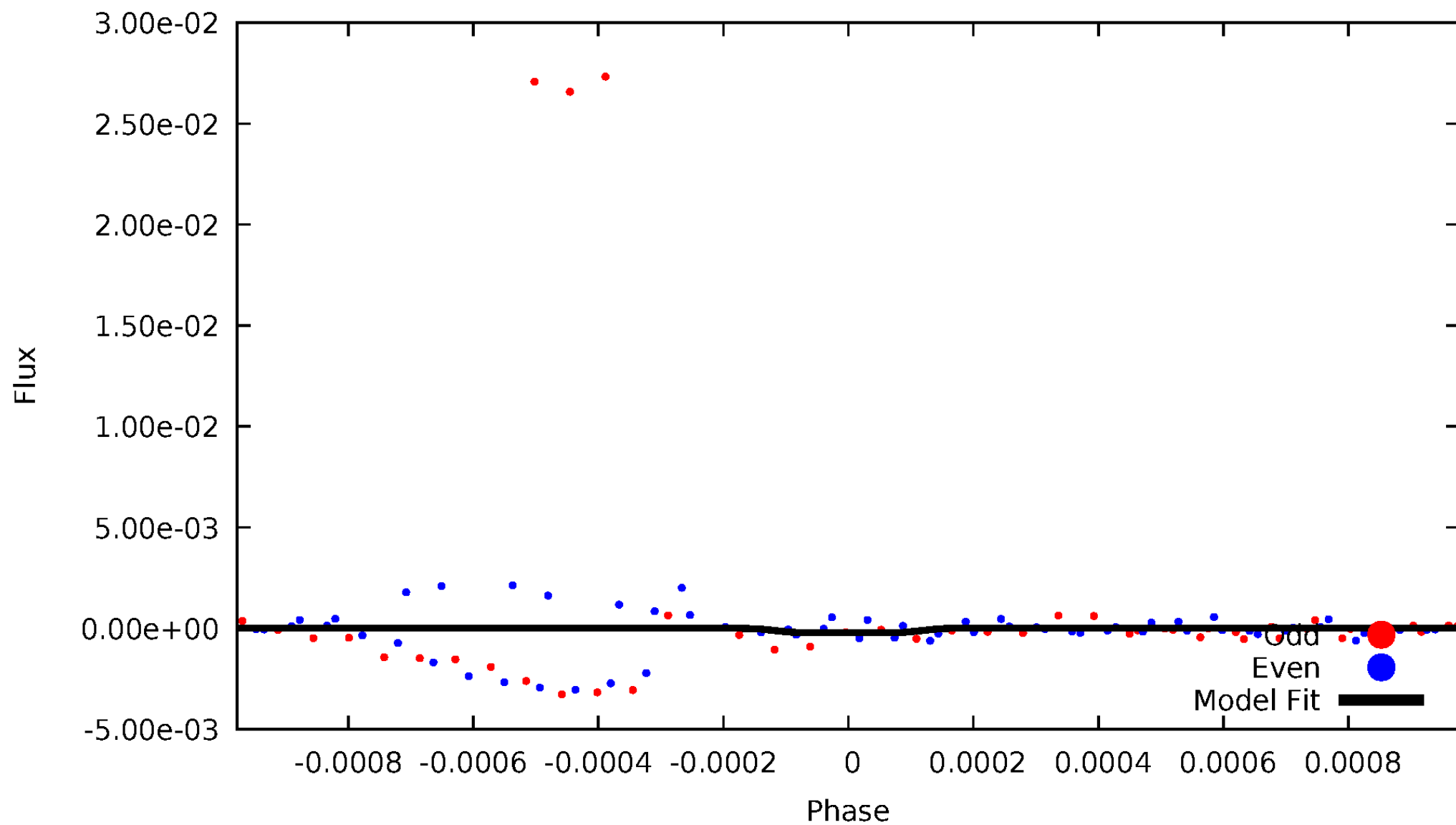
DV Odd/Even

TCE 006794650-03

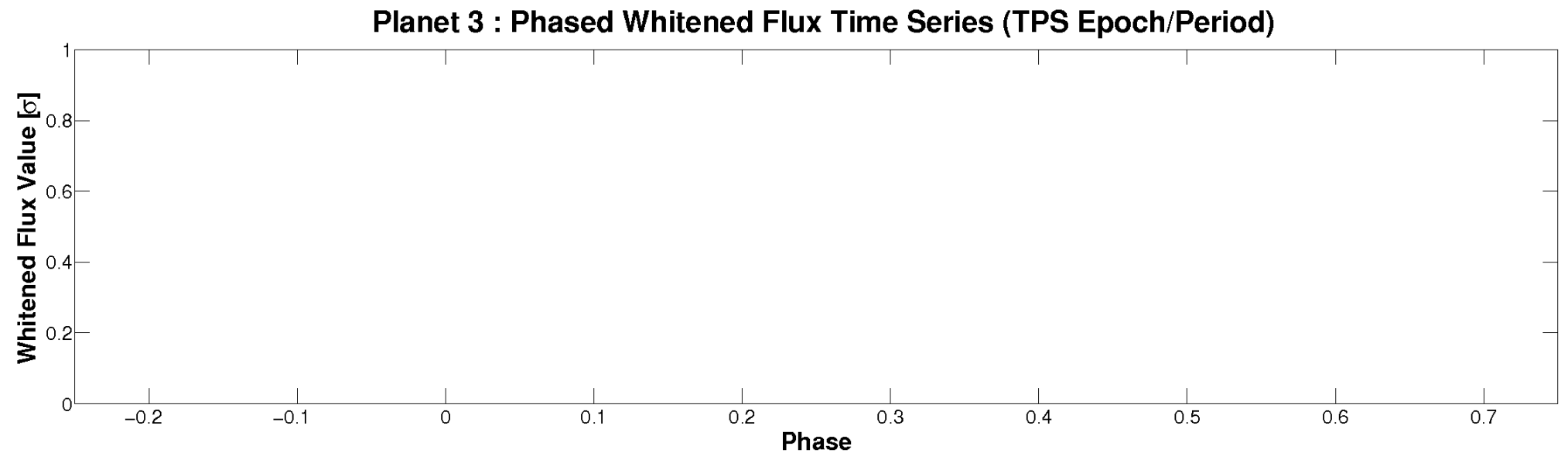
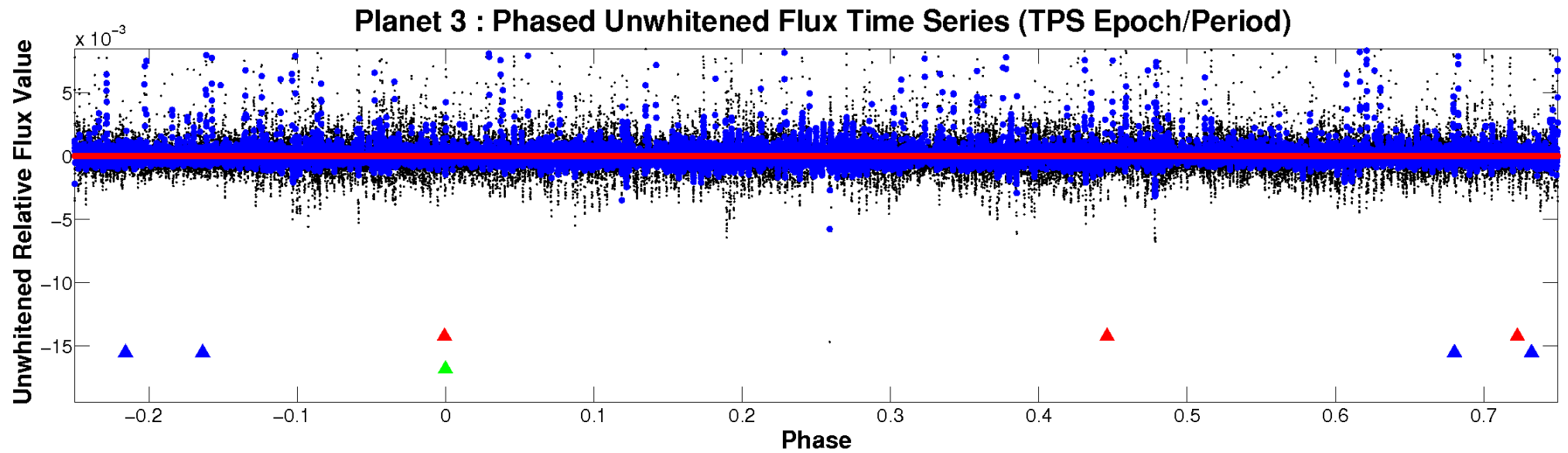


ALT Odd/Even

TCE 006794650-03

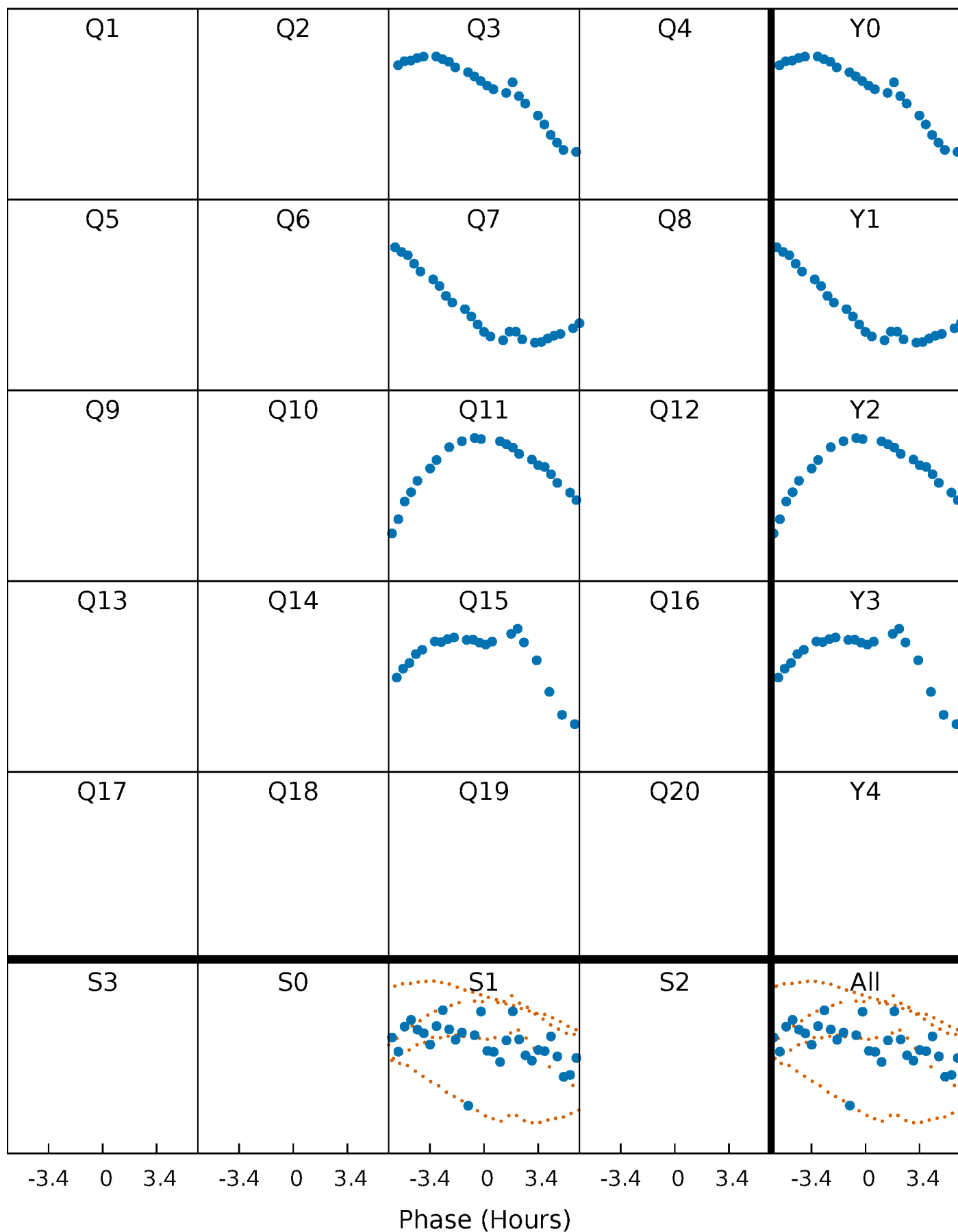


Non-Whitened Vs. Whitened Light Curve



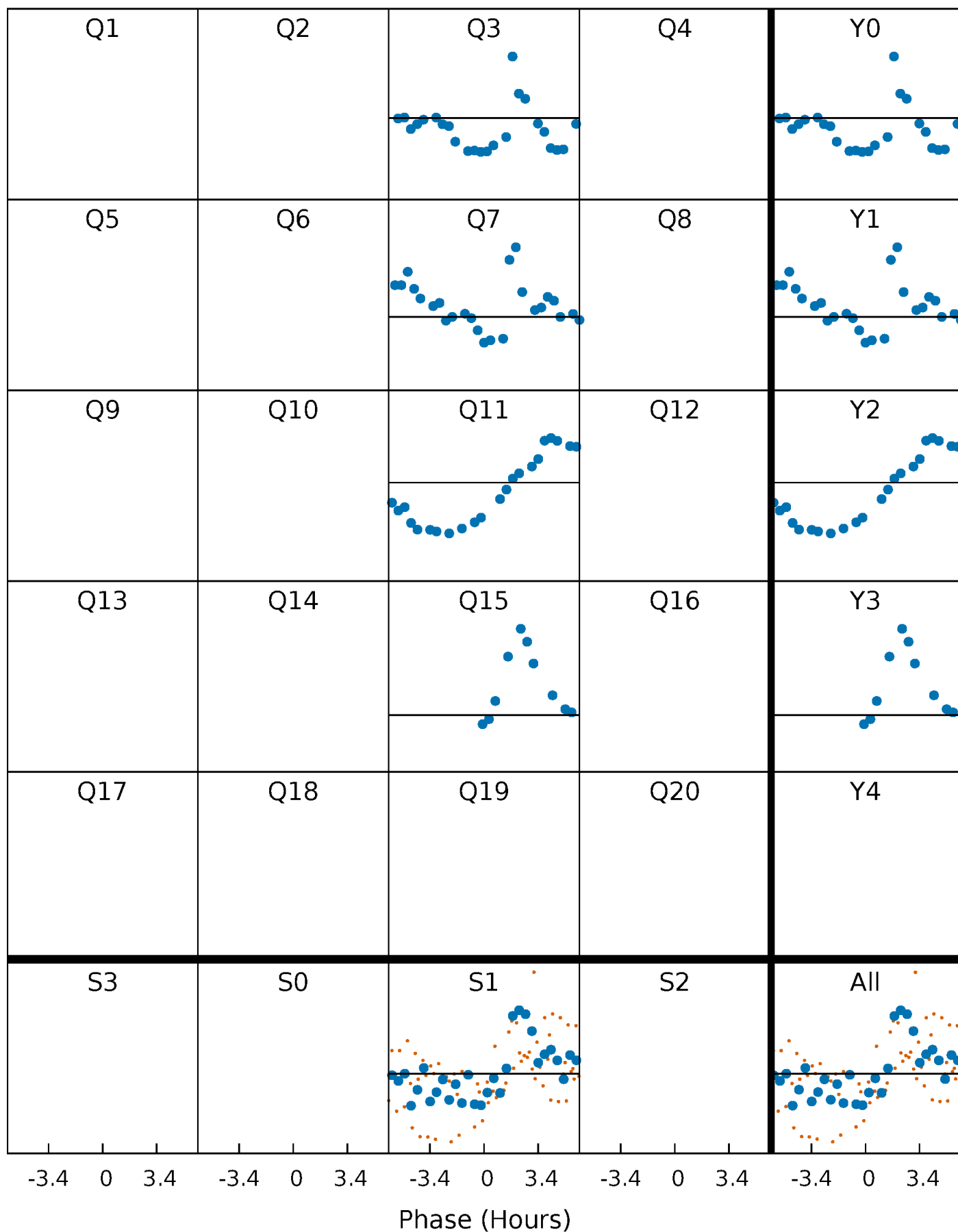
PDC Quarter-Phased Transit Curves

TCE 006794650-03 $P=359.803186$ Days $T_0=307.638319$ (BKJD)



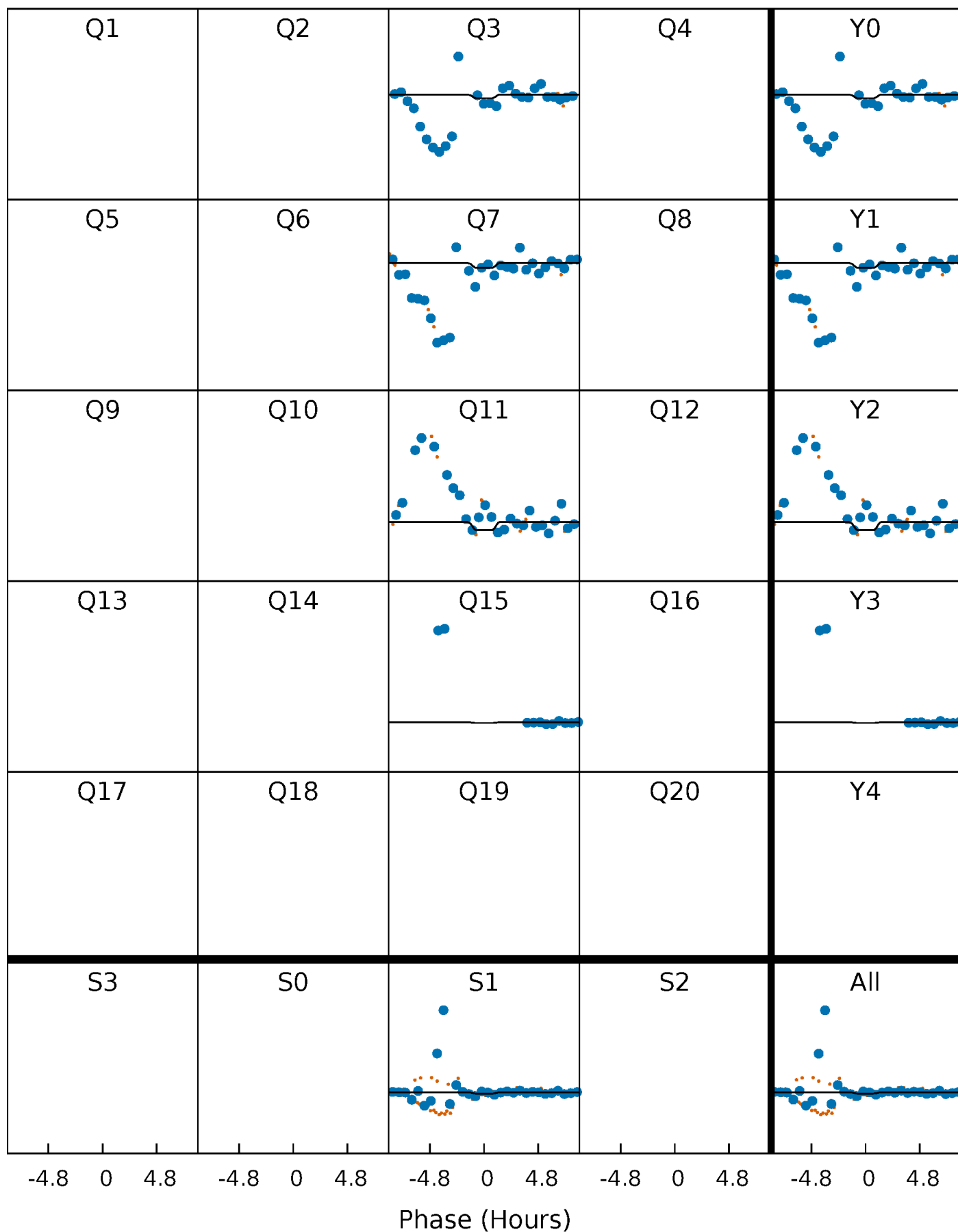
DV Quarter-Phased Transit Curves

TCE 006794650-03 $P=359.803186$ Days $T_0=307.638319$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

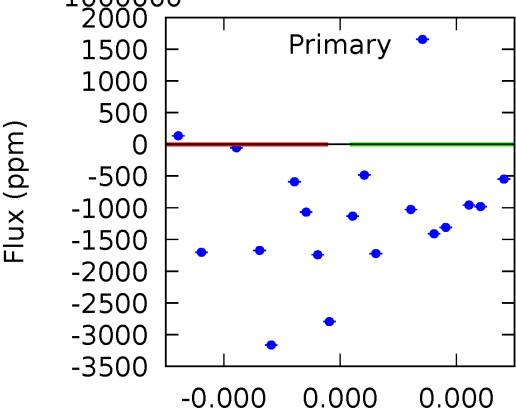
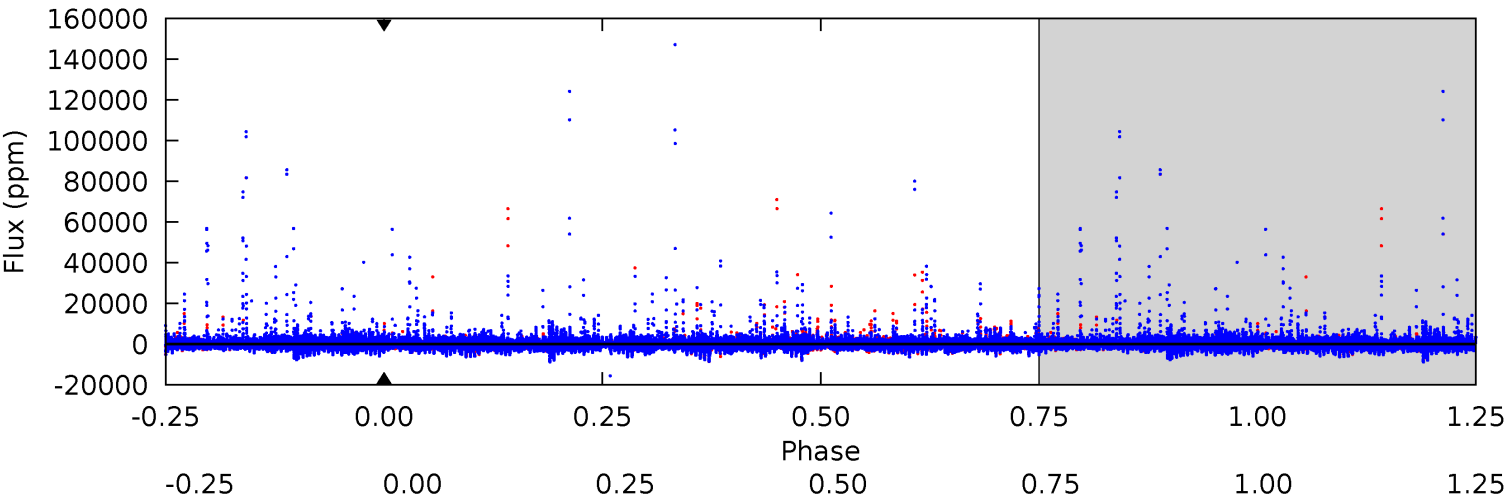
TCE 006794650-03 P=359.803186 Days $T_0=307.806884$ (BKJD)



DV Model-Shift Uniqueness Test

006794650-03, P = 359.803186 Days, E = 307.638319 Days

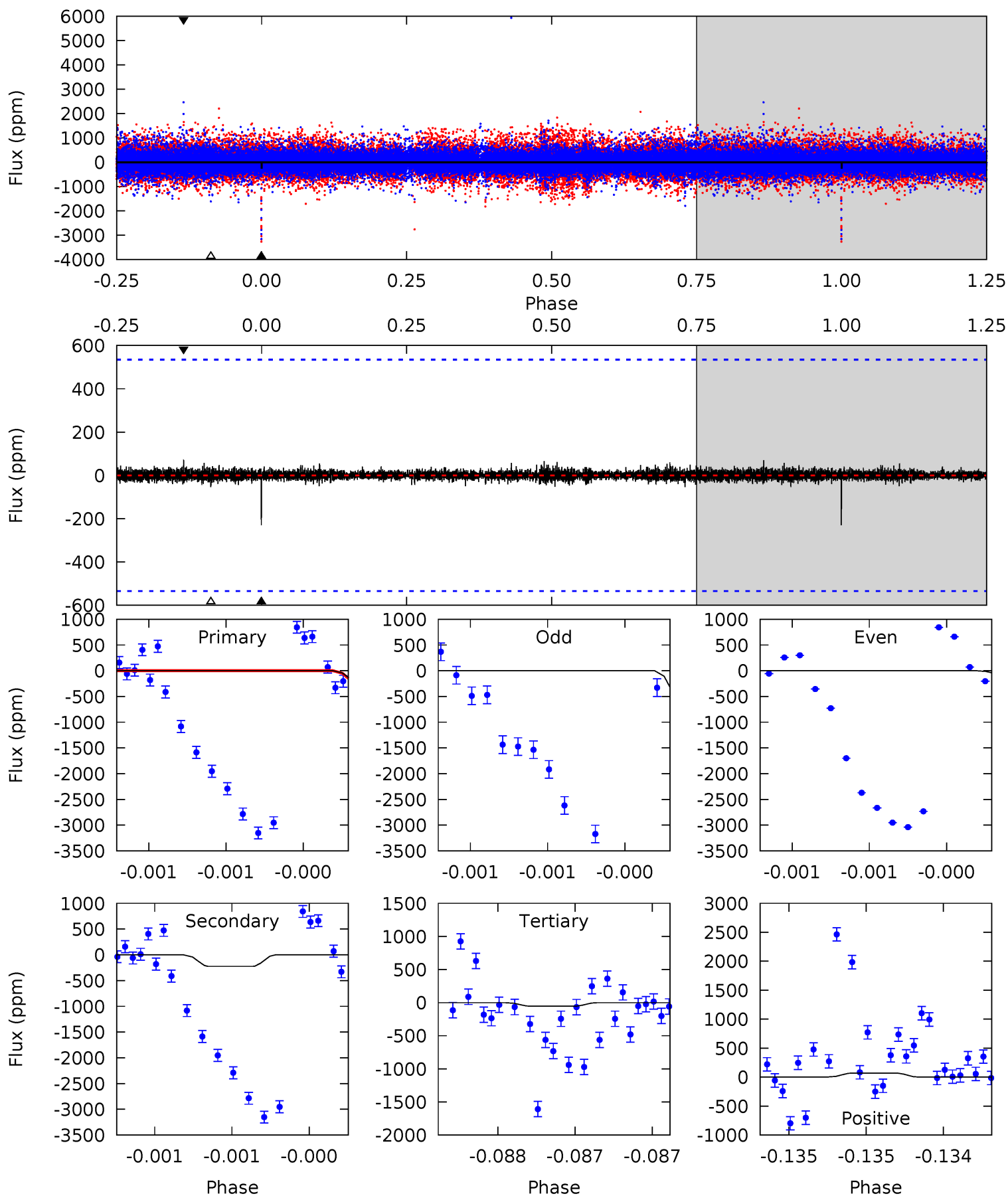
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006794650-03, P = 359.803186 Days, E = 307.806884 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.44	2.38	0.57	0.74	5.67	3.63	0.14	1.86	1.70	1.81	1.65	2.16	0.74	0.23	0.33



Stellar Parameters For KIC 006794650

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5370^{+160}_{-160}	$4.569^{+0.077}_{-0.070}$	$-0.560^{+0.350}_{-0.300}$	$0.727^{+0.097}_{-0.071}$	$0.714^{+0.090}_{-0.045}$	$2.619^{+0.826}_{-0.627}$
	+3%/-3%	+2%/-2%	+62%/-54%	+13%/-10%	+13%/-6%	+32%/-24%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006794650-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$6.04^{+7.07}_{-4.19}$	300^{+12}_{-13}	-4067^{+22931}_{-10865}	$-18103.624^{+2473772.679}_{-1608594.206}$
Alt.	-225 ± 94	$5.76^{+6.45}_{-4.02}$	300^{+12}_{-12}	3002^{+1562}_{-543}	2545^{+27842}_{-1988}

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

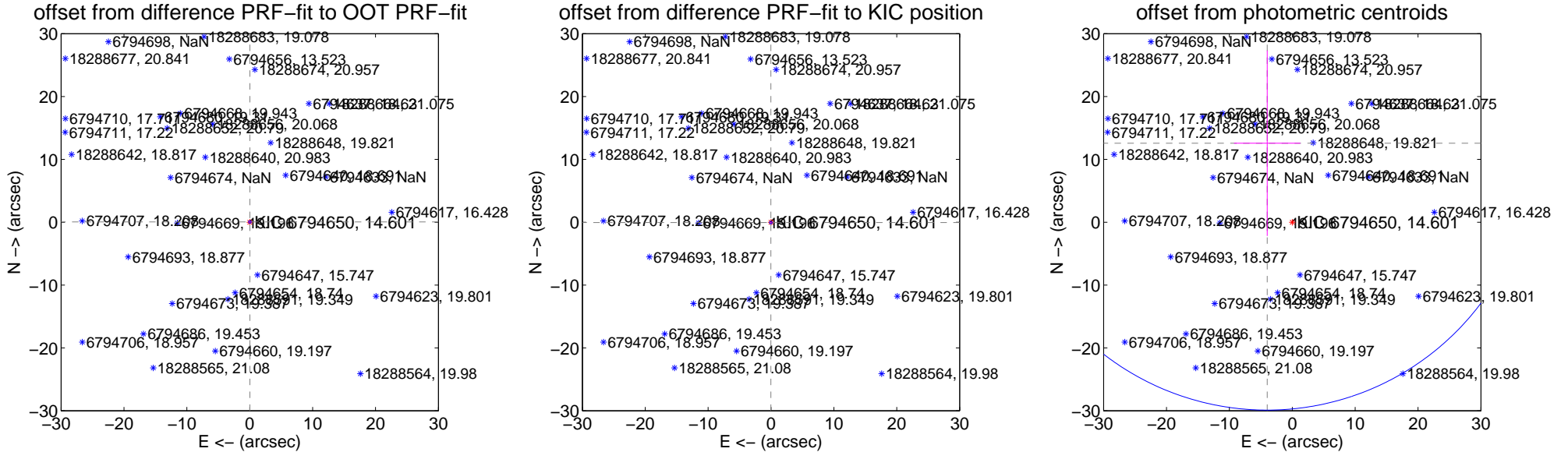
DV Centroid Data

Supplemental centroid analysis for 006794650-03. Kepler magnitude: 14.60. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.052 ± 0.069	0.75	-0.022 ± 0.069	0.047 ± 0.069
PRF-fit source offset from KIC position	0.059 ± 0.069	0.85	0.022 ± 0.069	-0.054 ± 0.069
photometric centroid source offset	13.19 ± 14.15	0.93	3.99 ± 5.28	12.57 ± 14.76



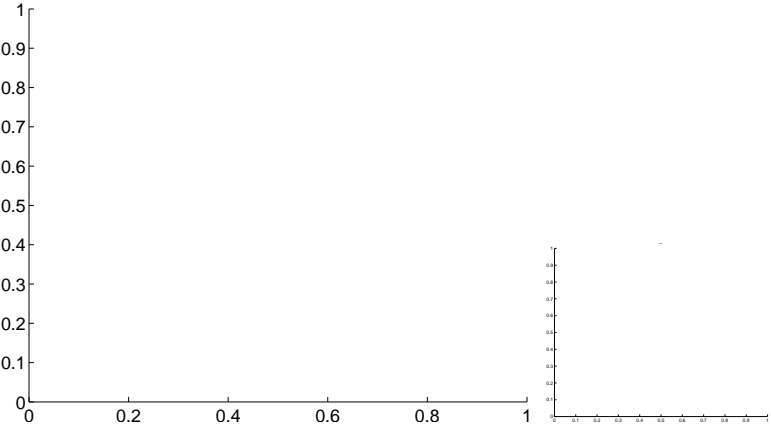
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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

Q1 no difference image



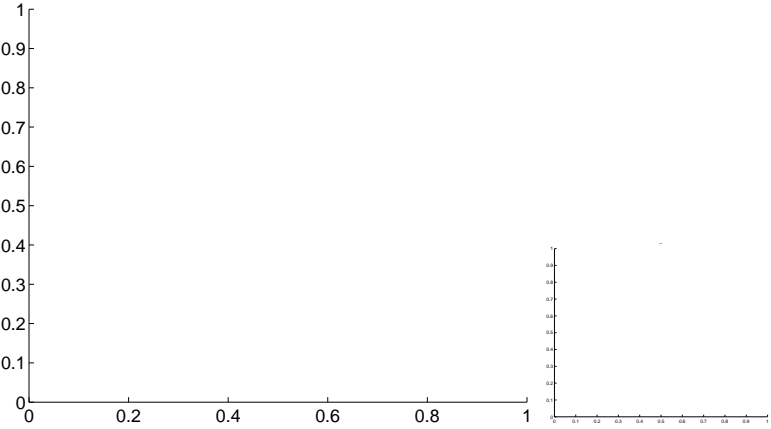
Q1 no OOT image



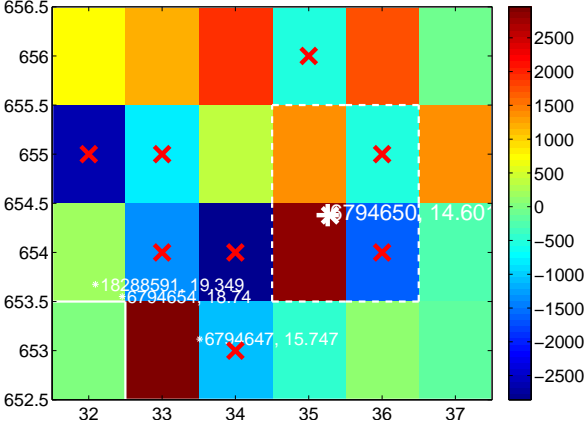
Q2 no difference image



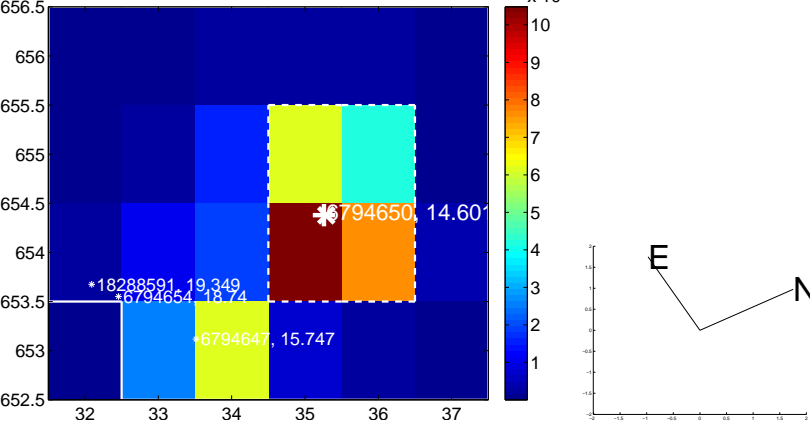
Q2 no OOT image



Q3 difference image. Poor Quality



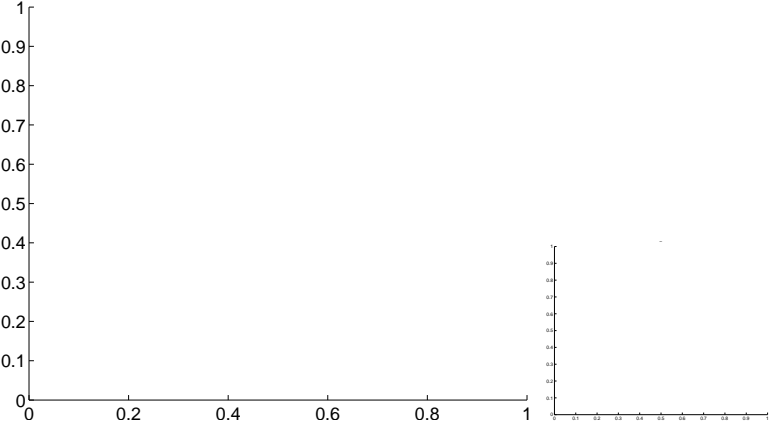
Q3 OOT image



Q4 no difference image



Q4 no OOT image



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

Q5 no difference image



Q5 no OOT image



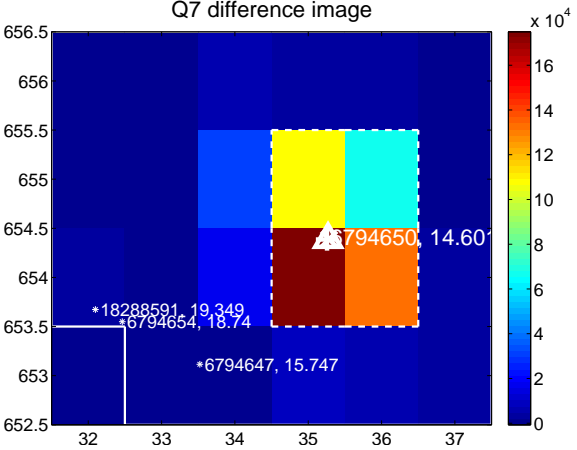
Q6 no difference image



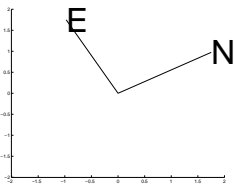
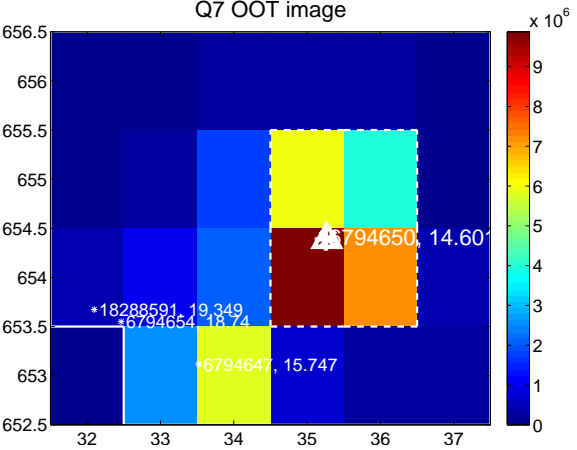
Q6 no OOT image



Q7 difference image



Q7 OOT image



Q8 no difference image



Q8 no OOT image



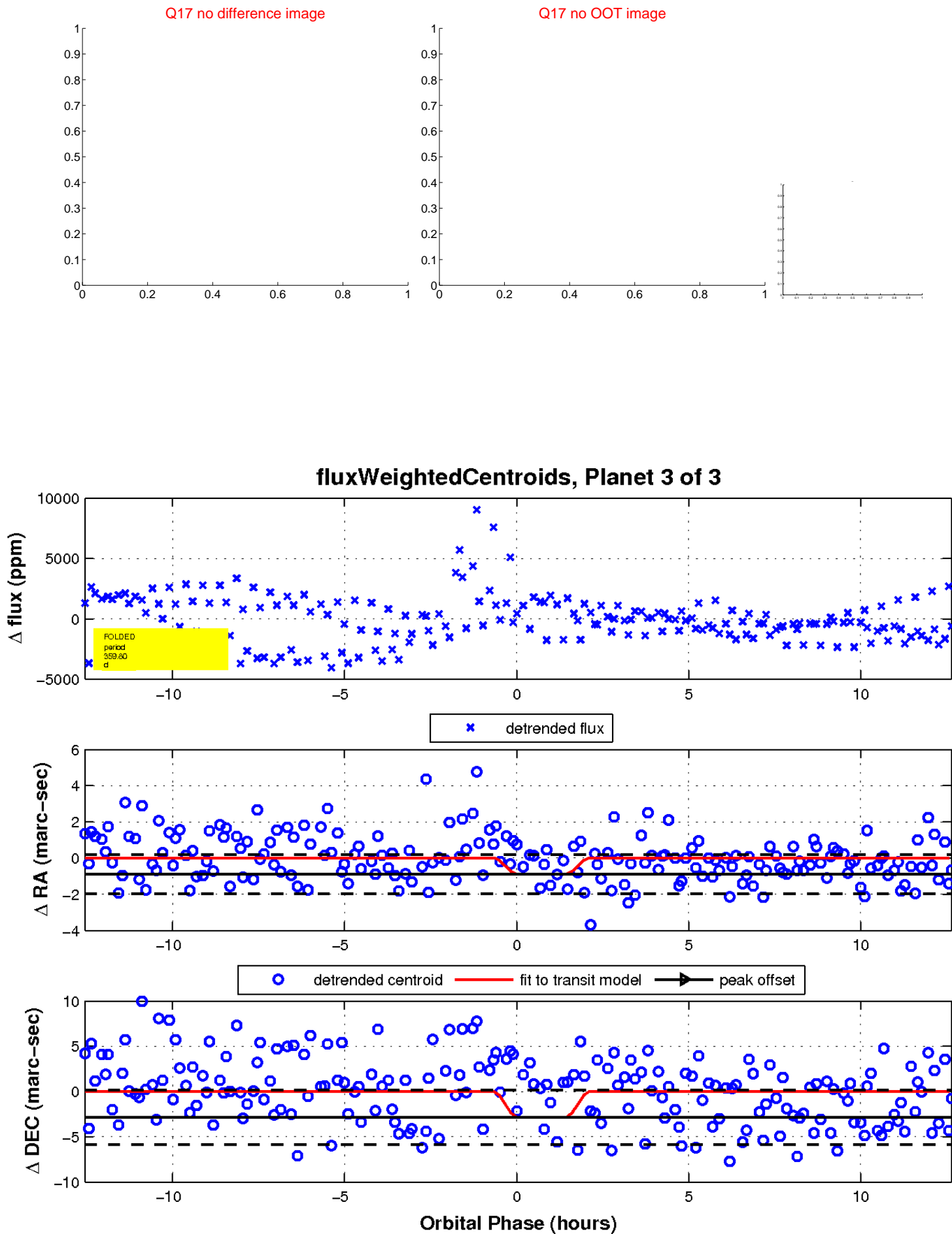
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

