

KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
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006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

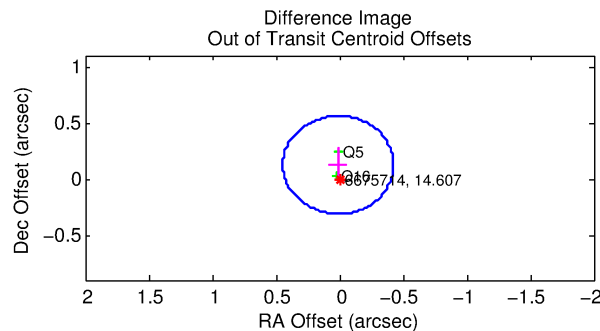
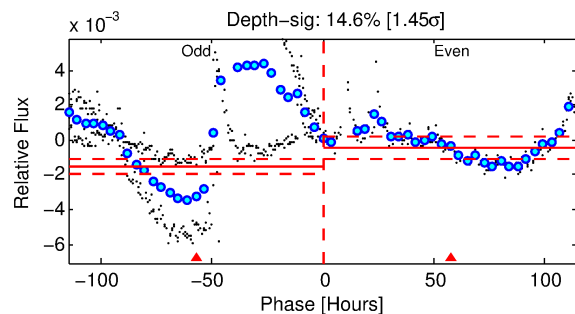
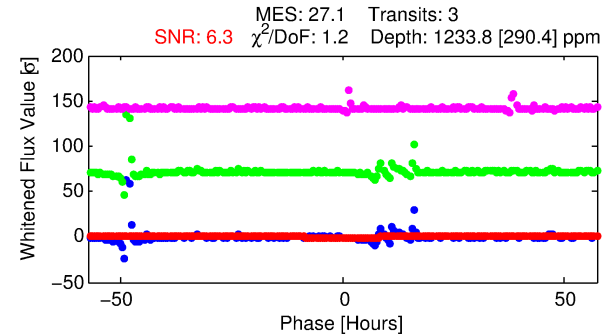
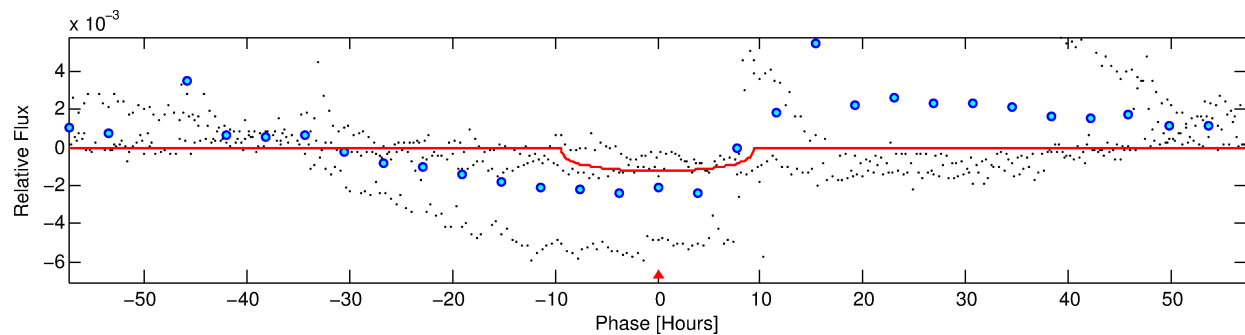
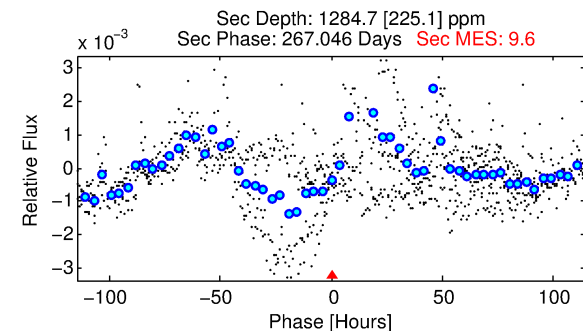
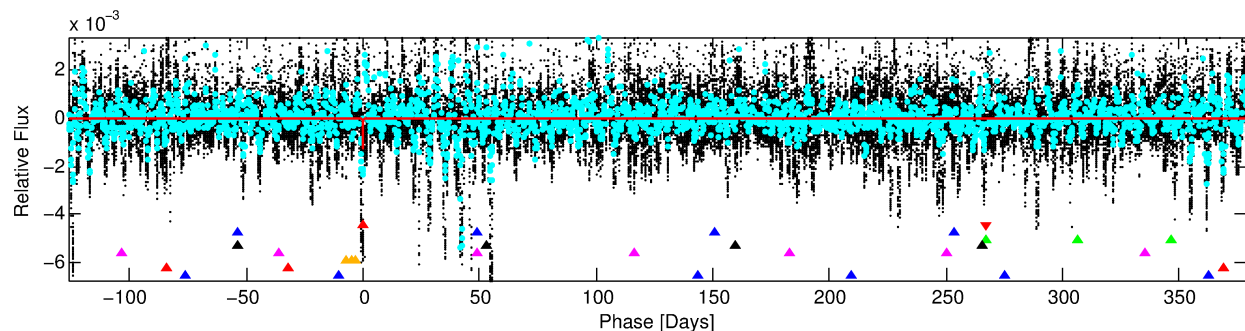
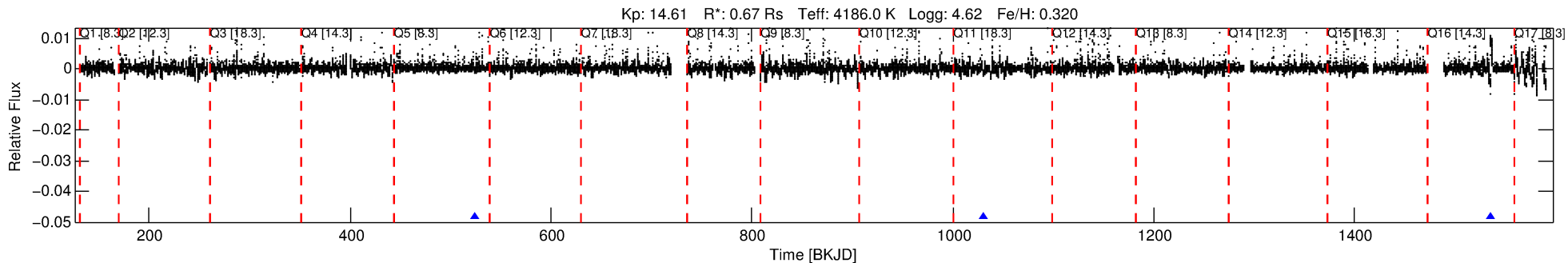
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-01

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 1 of 8 Period: 505.231 d



DV Fit Results:

Period = 505.23143 [0.01395] d
Epoch = 524.6705 [0.0158] BKJD
Rp/R* = 0.0315 [0.0122]
a/R* = 193.10 [206.63]
b = 0.39 [2.38]
Seff = 0.10 [0.02]
Teq = 145 [7] K
Rp = 2.31 [0.92] Re
a = 1.0930 [0.0738] AU
Ag = 158492.56 [127254.21] [1.25σ]
Teffp = 4467 [909] K [4.76σ]

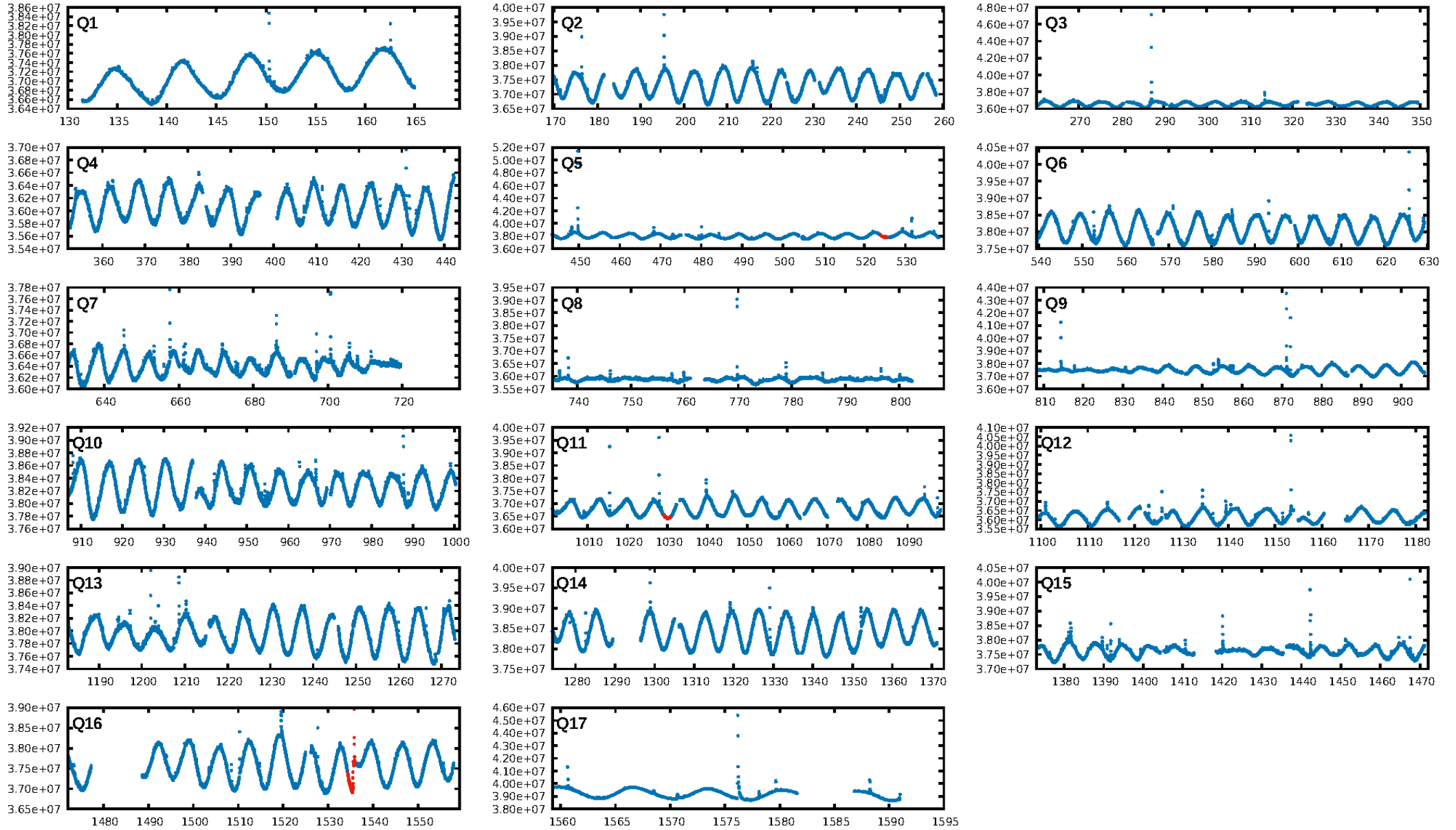
DV Diagnostic Results:

ShortPeriod-sig: 95.9% [2.05σ]
LongPeriod-sig: 100.0% [35.55σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.2575
Centroid-sig: 28.9%
Centroid-so: 0.426 arcsec [1.13σ]
OotOffset-rm: 0.124 arcsec [0.86σ]
KicOffset-rm: 0.116 arcsec [1.39σ]
OotOffset-st: 0/0/1/1 [2]
KicOffset-st: 0/0/1/1 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

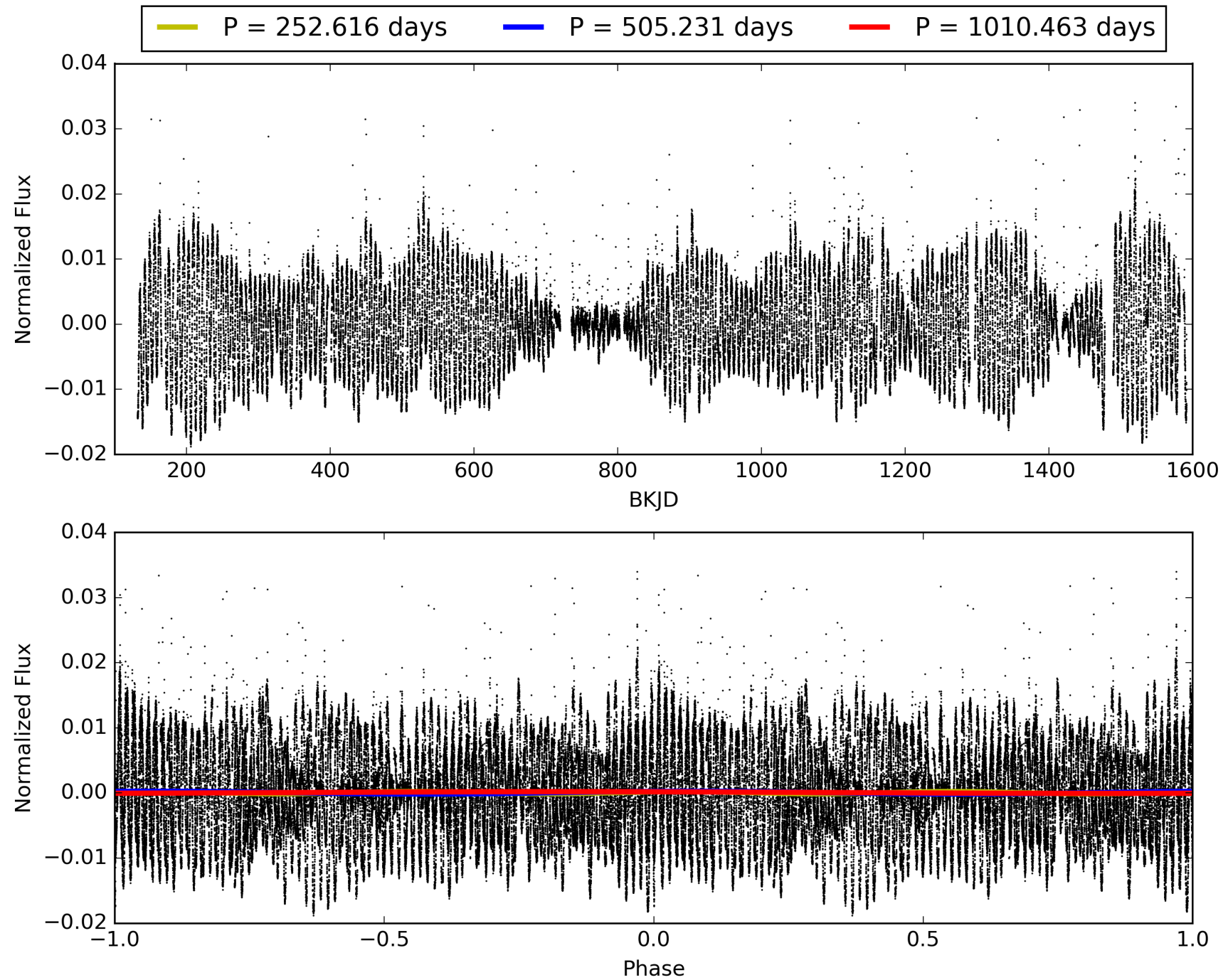
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:00:56 Z

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

TCE 006675714-01, PDC Light Curves

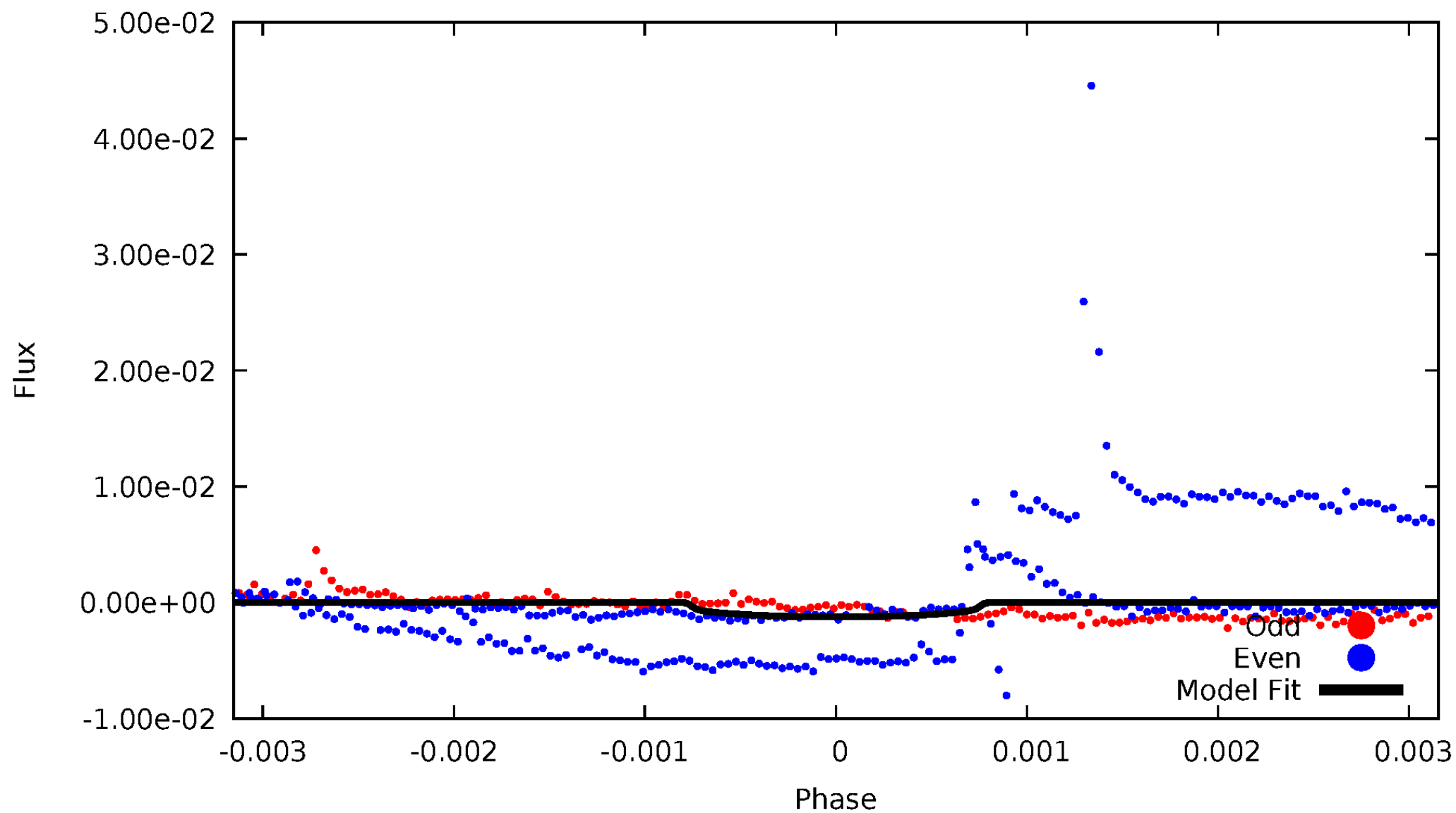


TCE 006675714-01



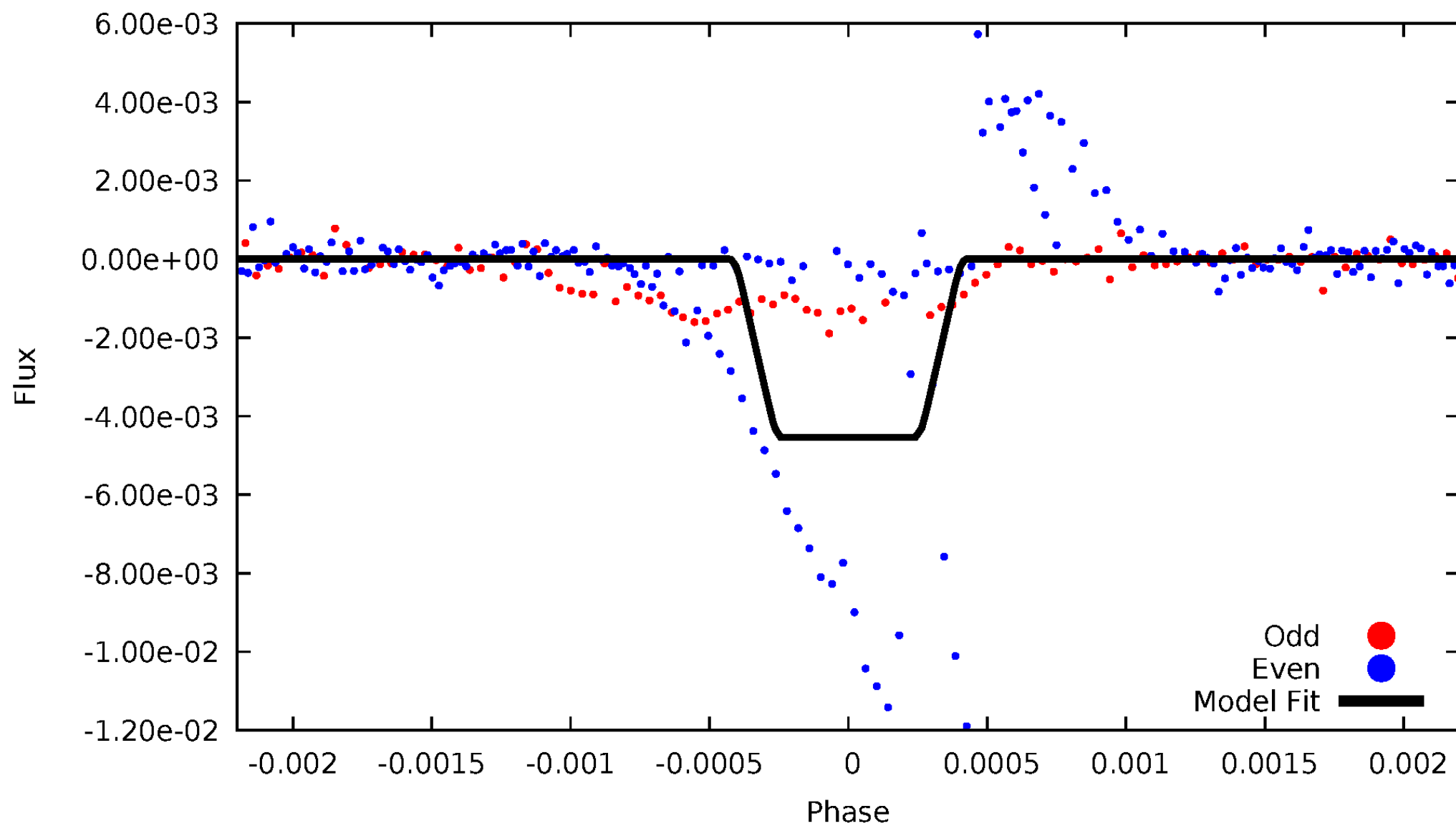
DV Odd/Even

TCE 006675714-01



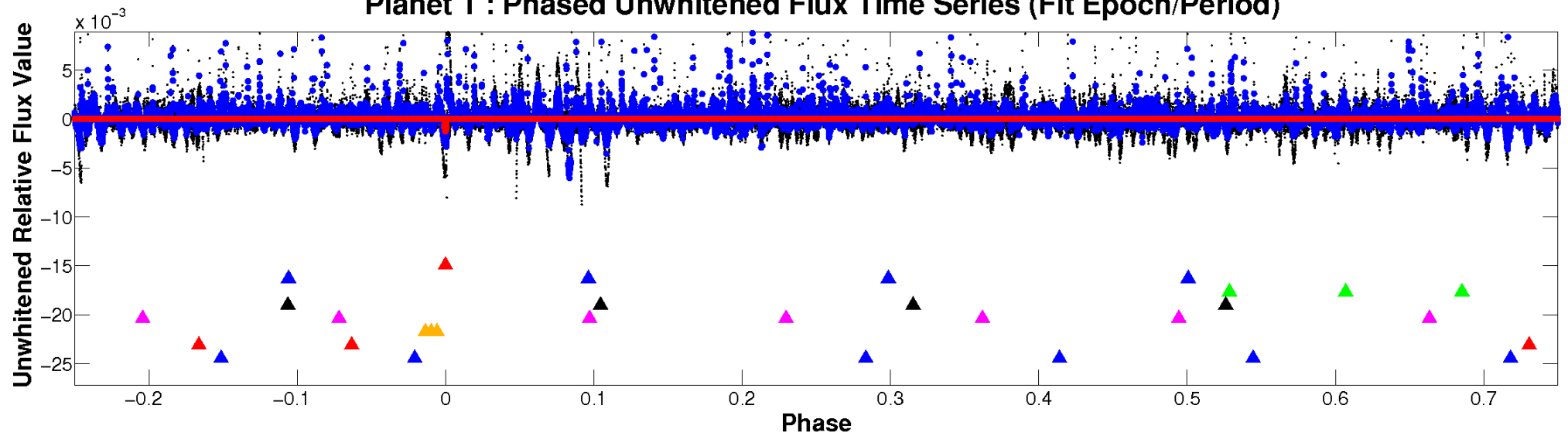
ALT Odd/Even

TCE 006675714-01

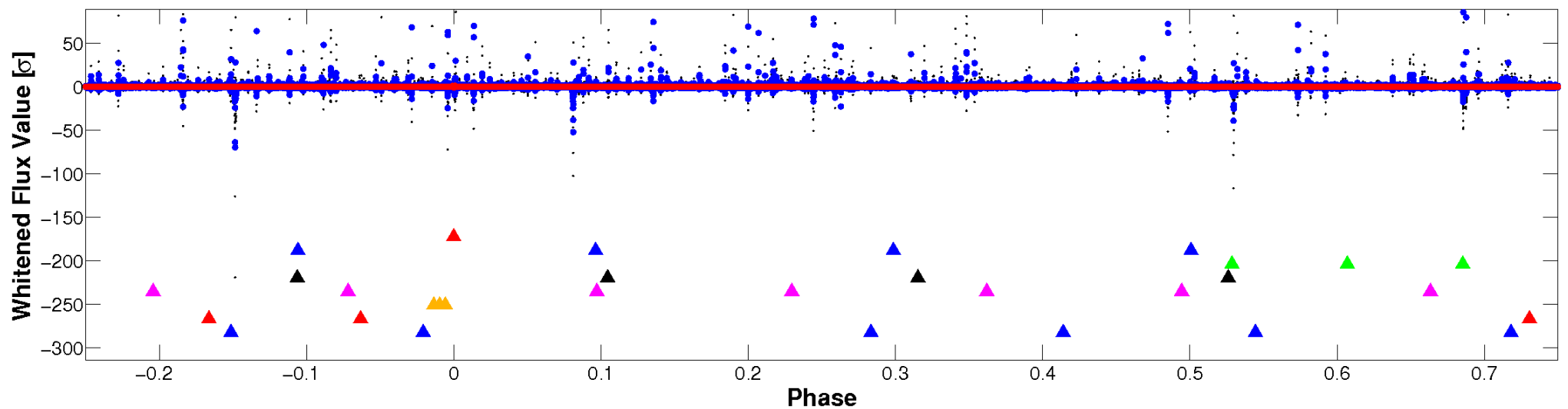


Non-Whitened Vs. Whitened Light Curve

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

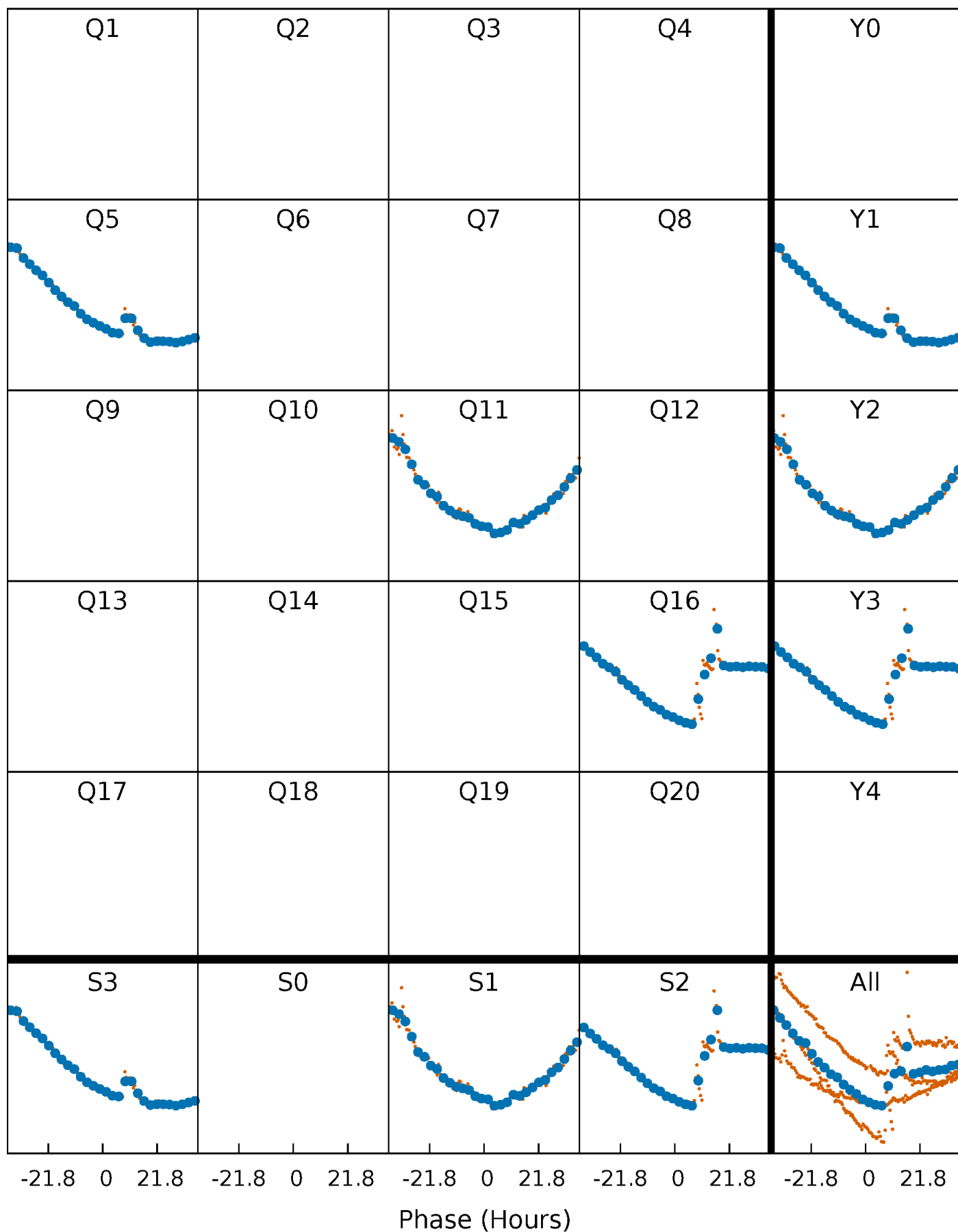


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



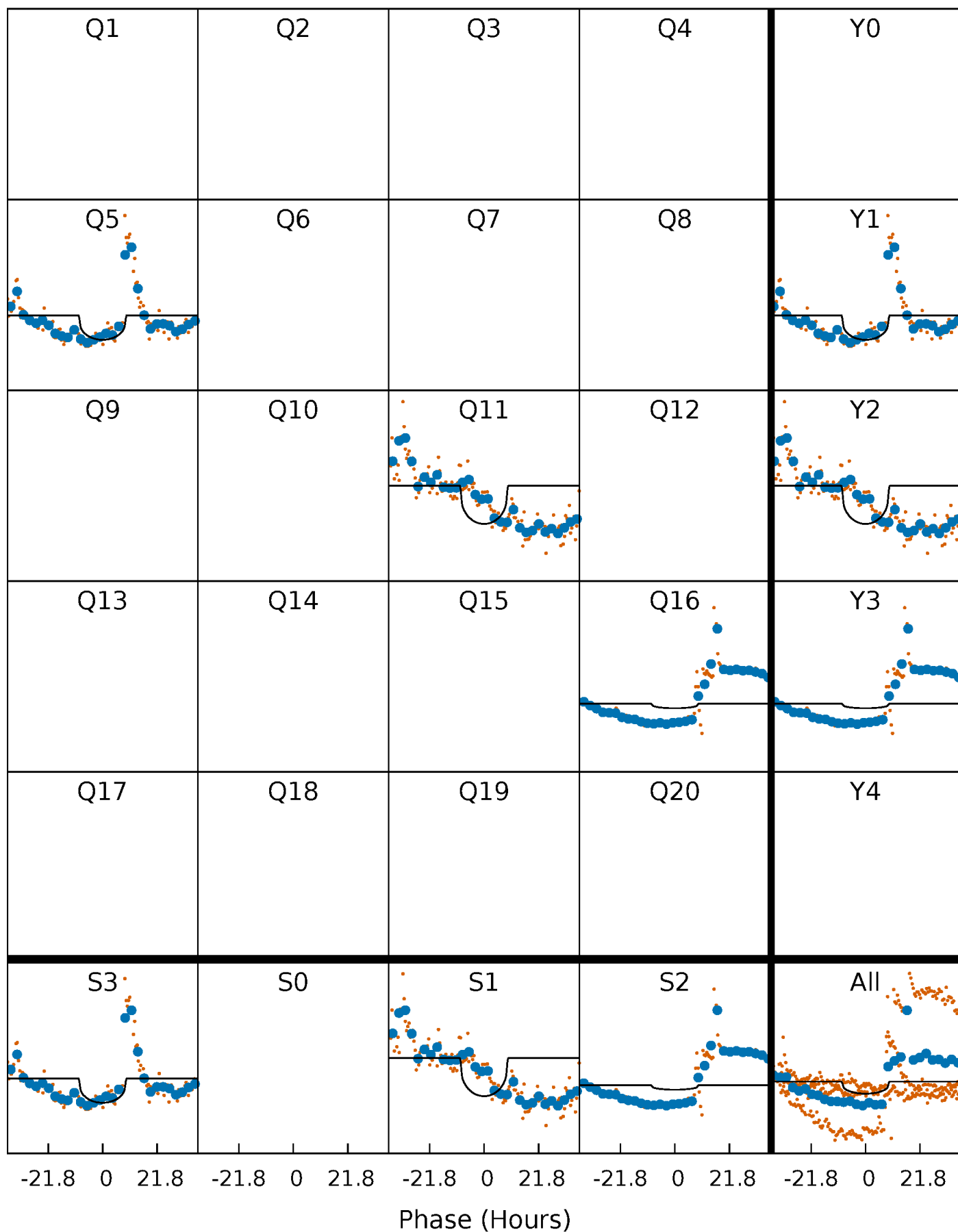
PDC Quarter-Phased Transit Curves

TCE 006675714-01 P=505.231431 Days $T_0=524.670544$ (BKJD)



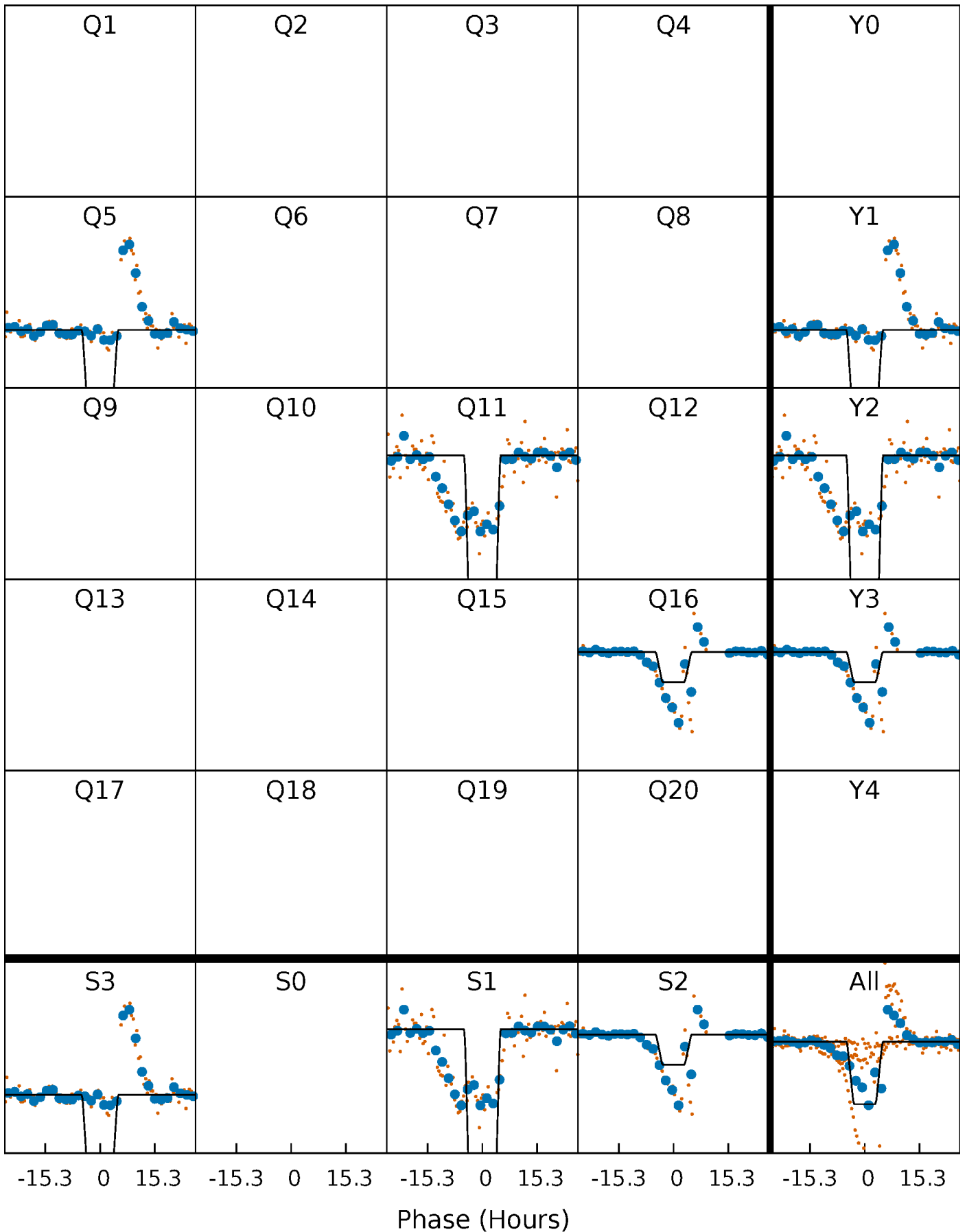
DV Quarter-Phased Transit Curves

TCE 006675714-01 P=505.231431 Days $T_0=524.670544$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

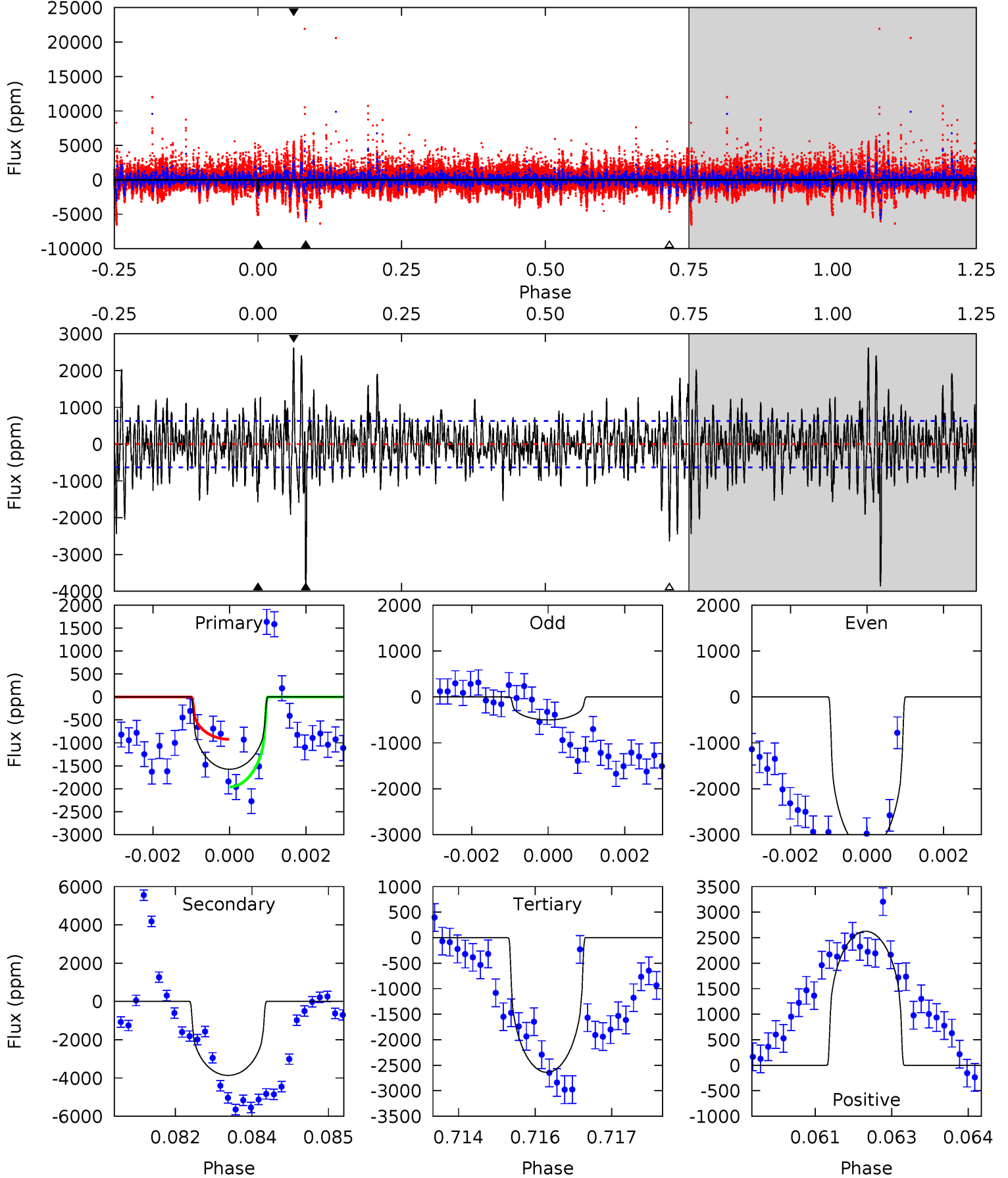
TCE 006675714-01 P=505.294694 Days $T_0=524.779204$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-01, P = 505.231431 Days, E = 19.439113 Days

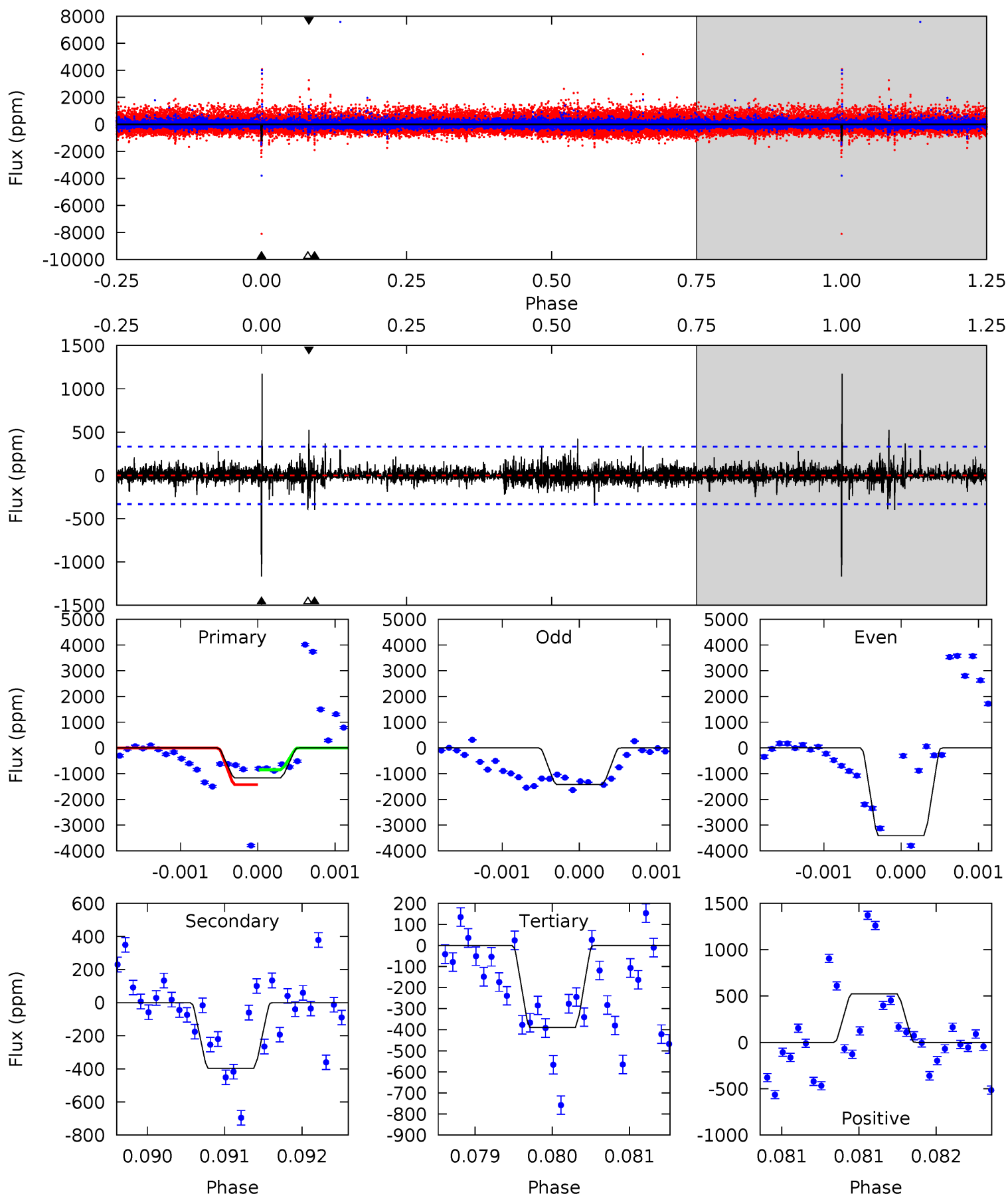
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.3	32.7	22.4	22.2	5.37	3.15	4.84	-9.02	-8.90	10.4	10.5	8.34	2.27	0.40	4.38



Alt Model-Shift Uniqueness Test

006675714-01, P = 505.294694 Days, E = 19.484510 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.3	6.56	6.42	8.66	5.49	3.35	0.99	12.9	10.6	0.13	-2.10	16.6	2.20	0.50	4.85



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3864 ± 118	$2.29^{+0.91}_{-0.88}$	201^{+7}_{-8}	5502^{+1634}_{-748}	$487305^{+821591}_{-233925}$
Alt.	-397 ± 61	$4.89^{+0.91}_{-0.91}$	202^{+8}_{-8}	2860^{+191}_{-152}	10730^{+6267}_{-3111}

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

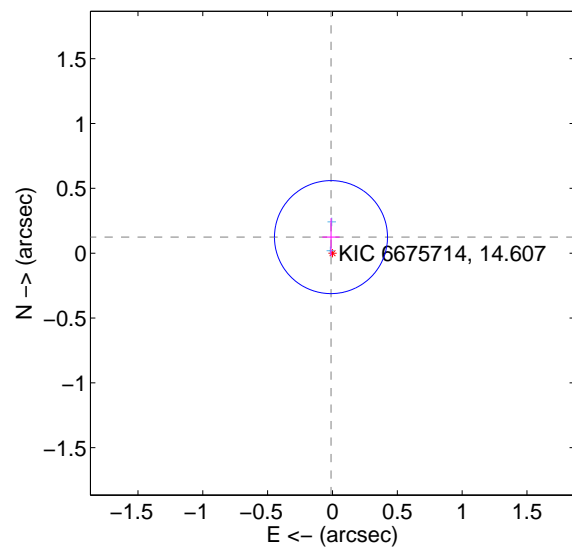
Supplemental centroid analysis for 006675714-01. Kepler magnitude: 14.61. Transit SNR 6.28

There are 2 quarters with good PRF difference image offsets

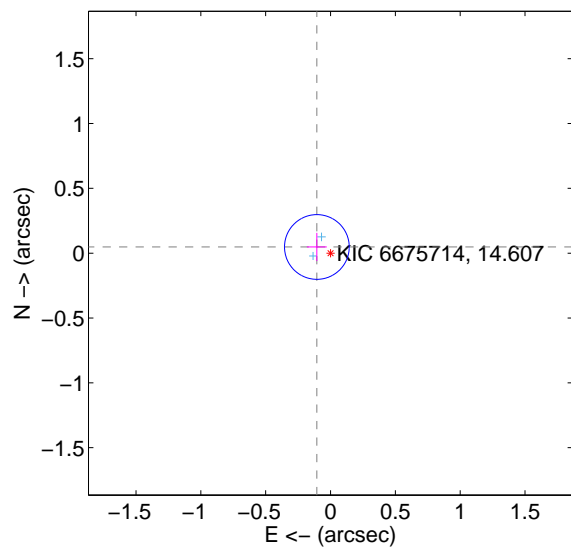
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.124 ± 0.145	0.86	0.011 ± 0.067	0.124 ± 0.146
PRF-fit source offset from KIC position	0.116 ± 0.083	1.39	0.105 ± 0.077	0.048 ± 0.109
photometric centroid source offset	0.43 ± 0.38	1.13	0.21 ± 0.37	-0.37 ± 0.38

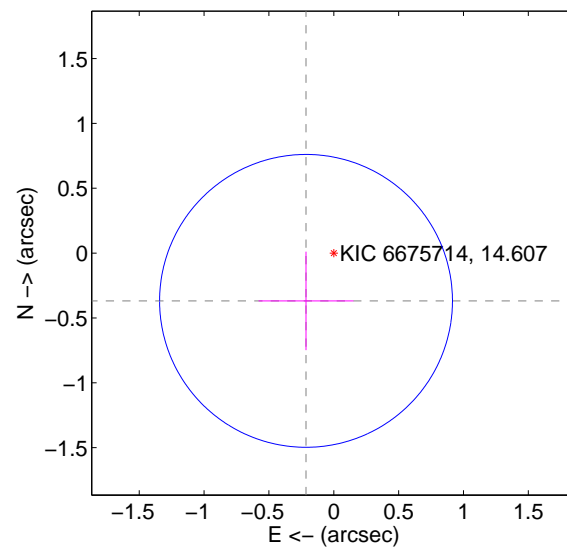
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

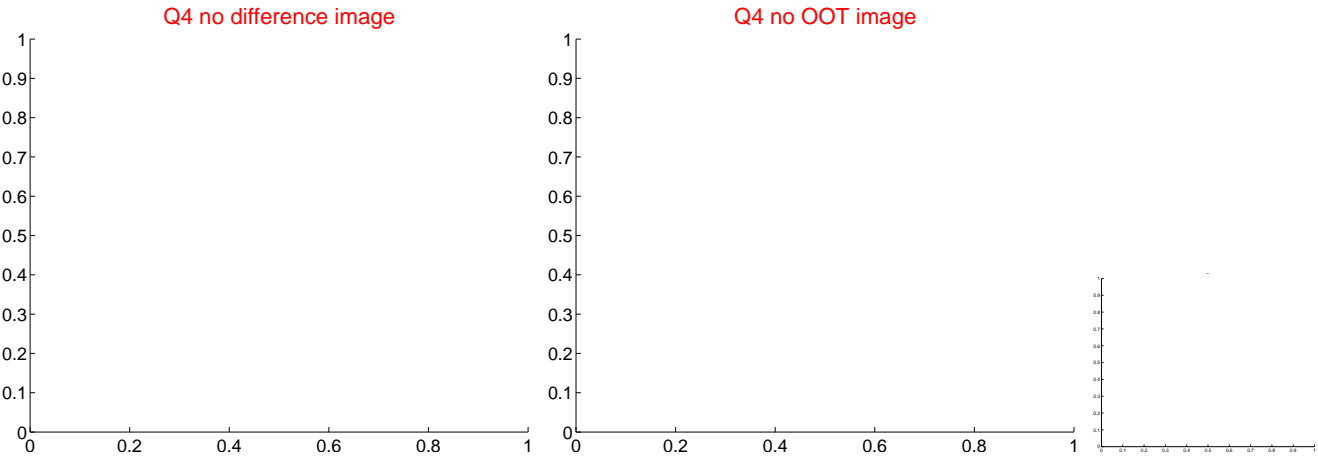
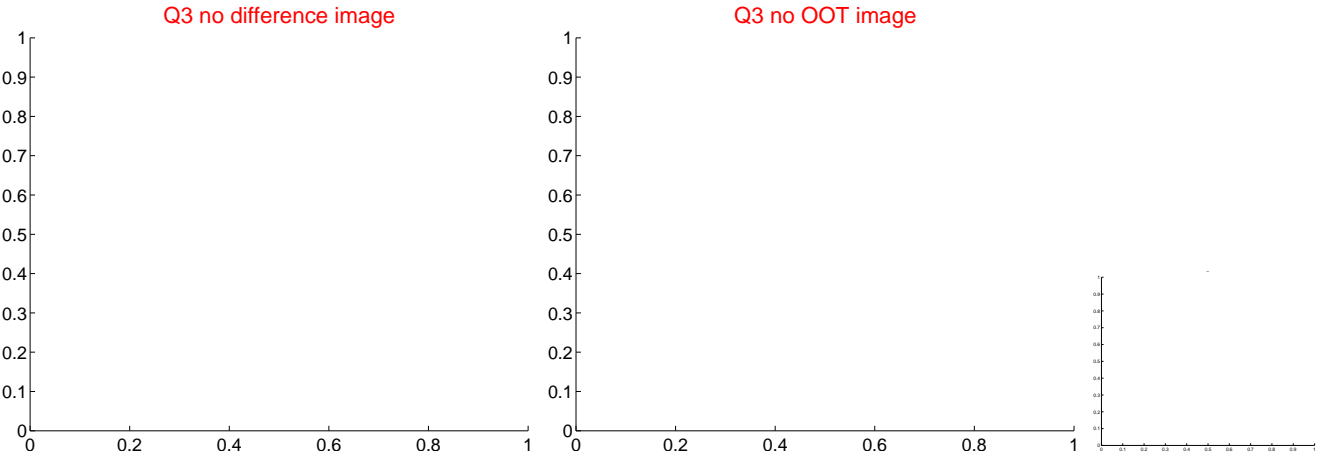
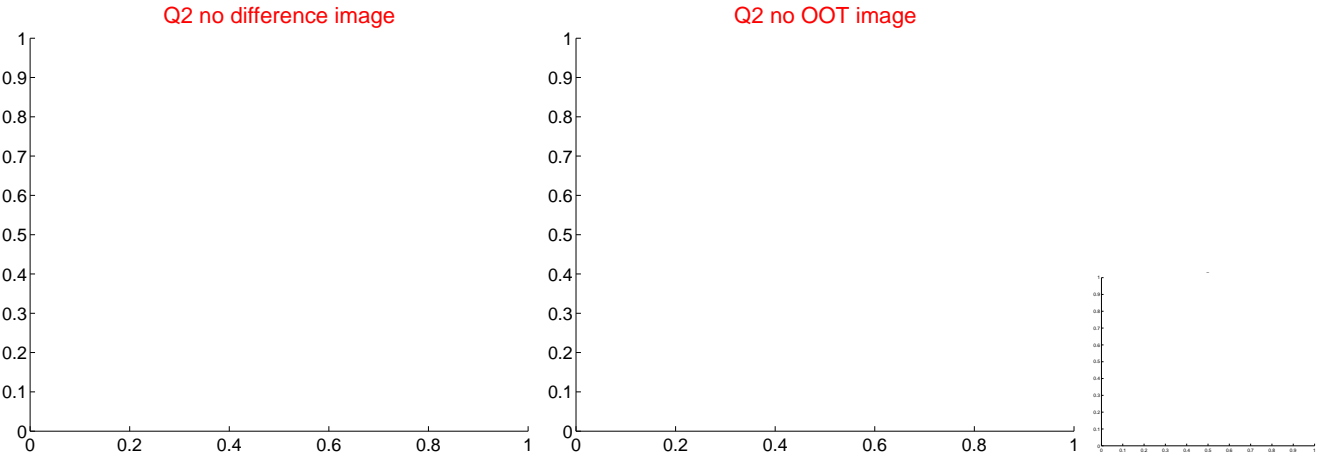
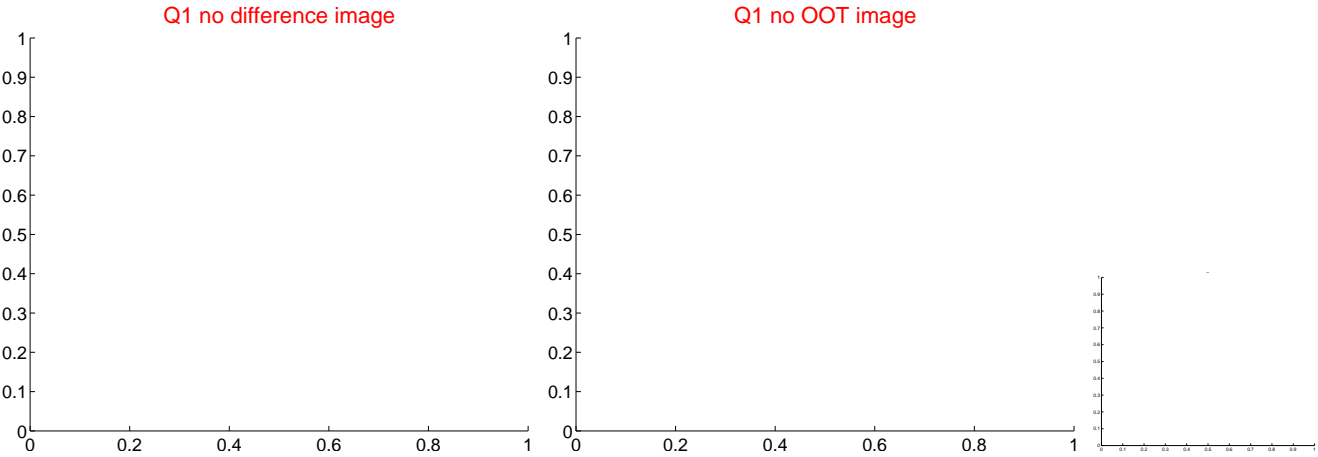


offset from photometric centroids

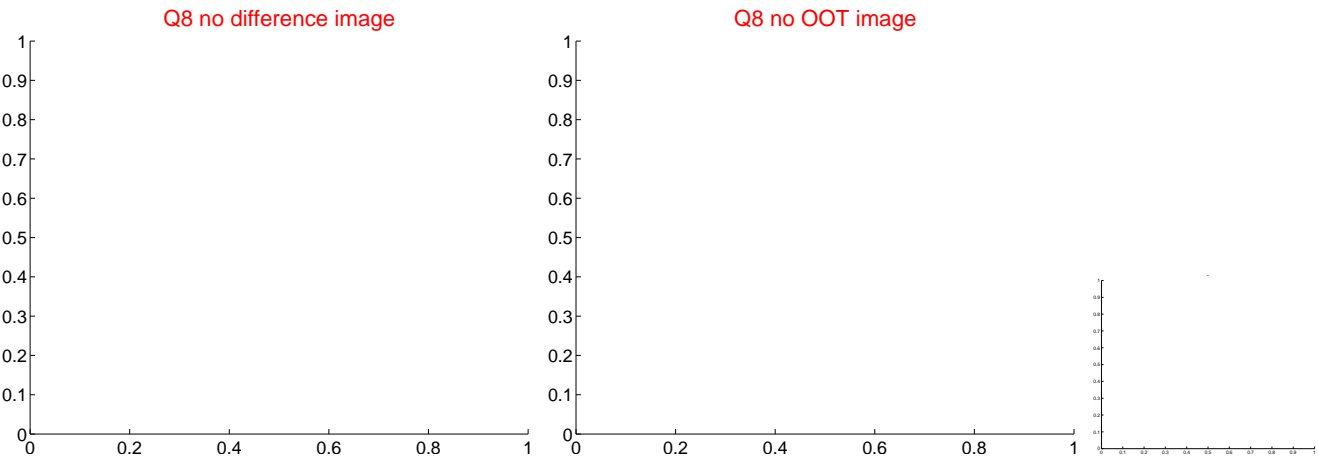
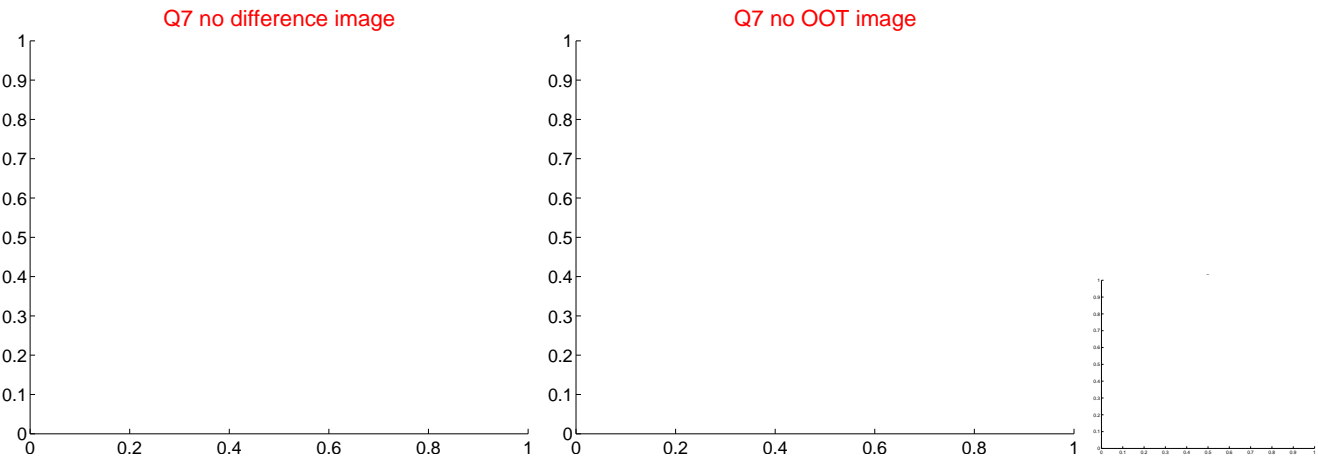
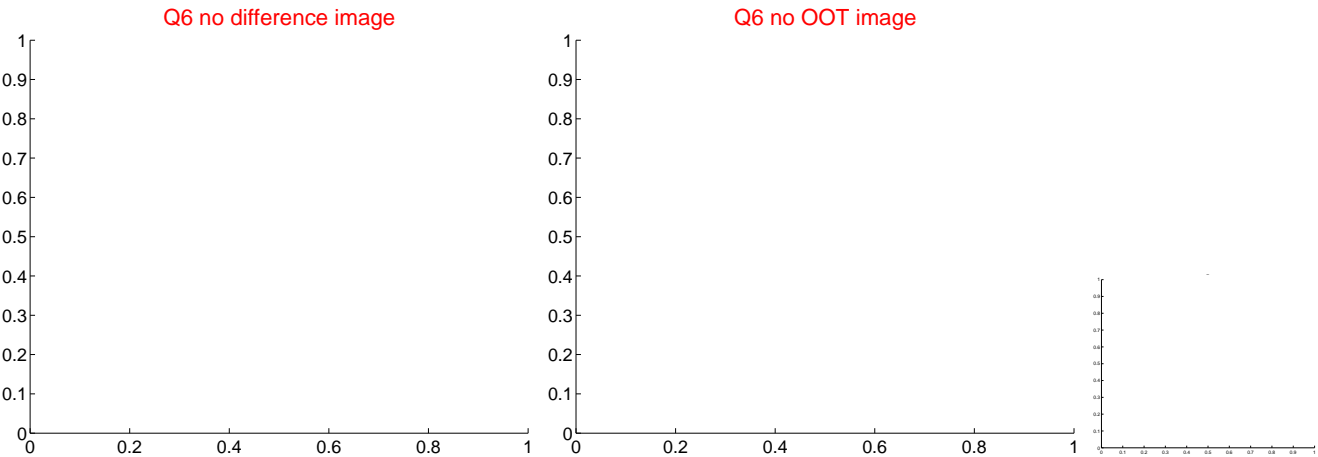
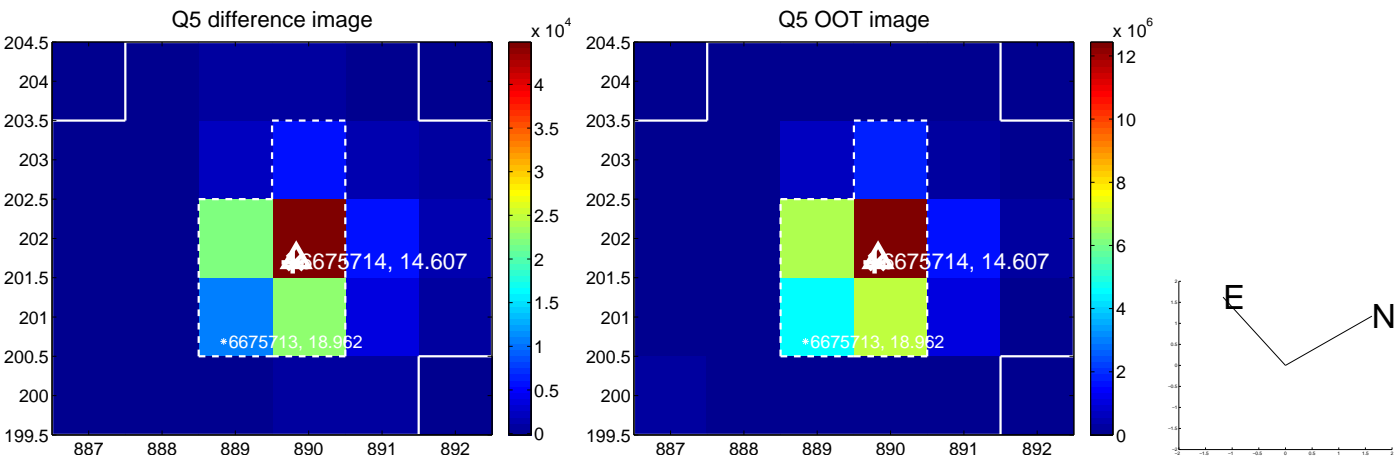


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

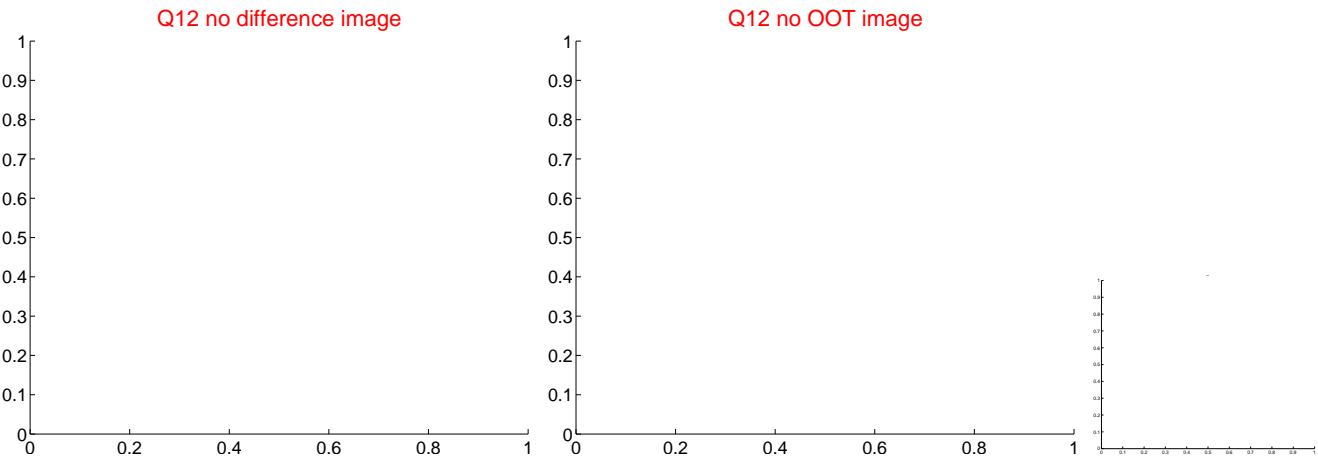
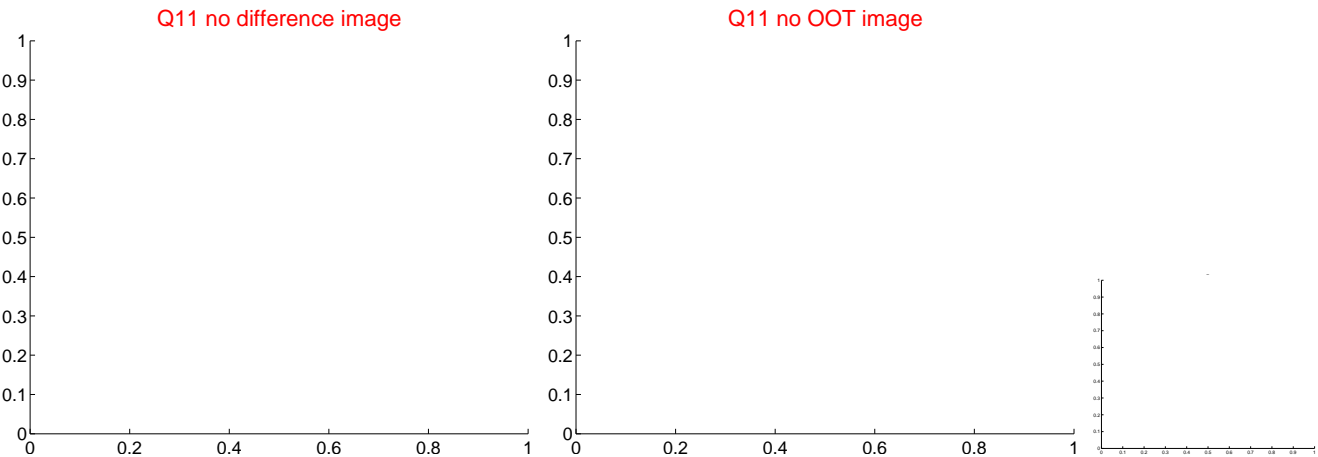
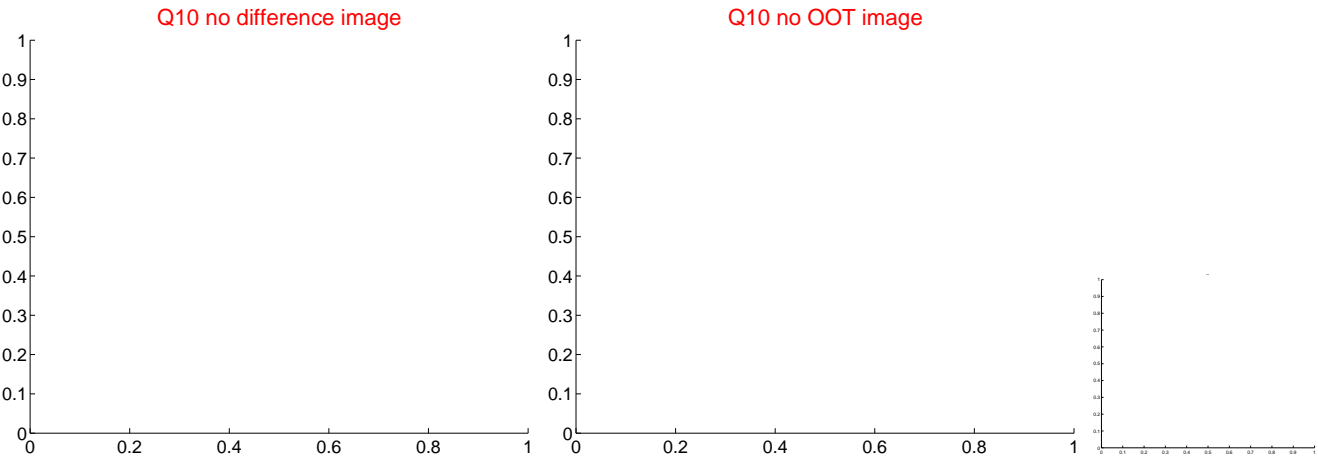
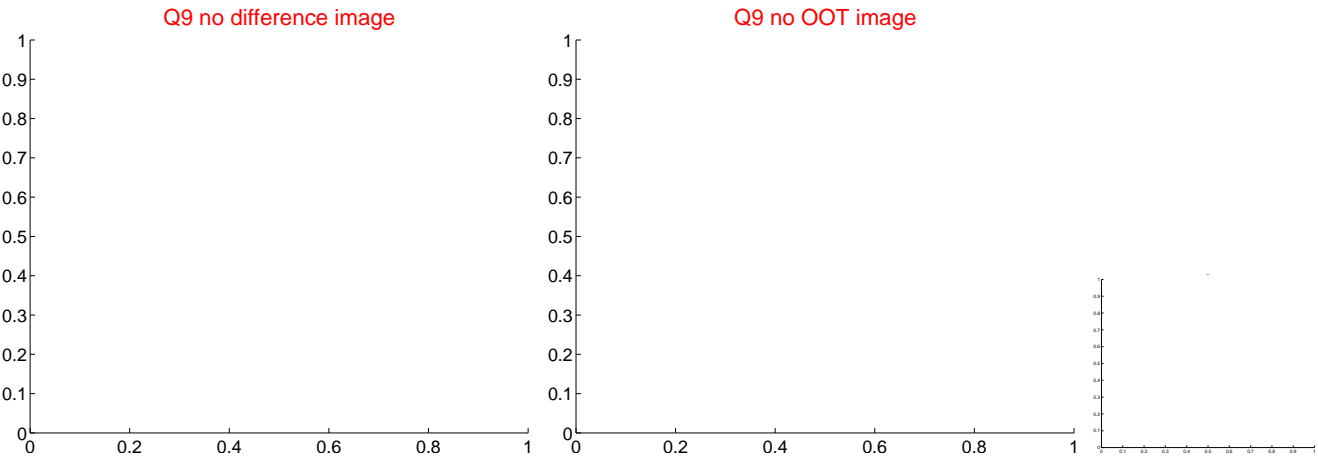
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



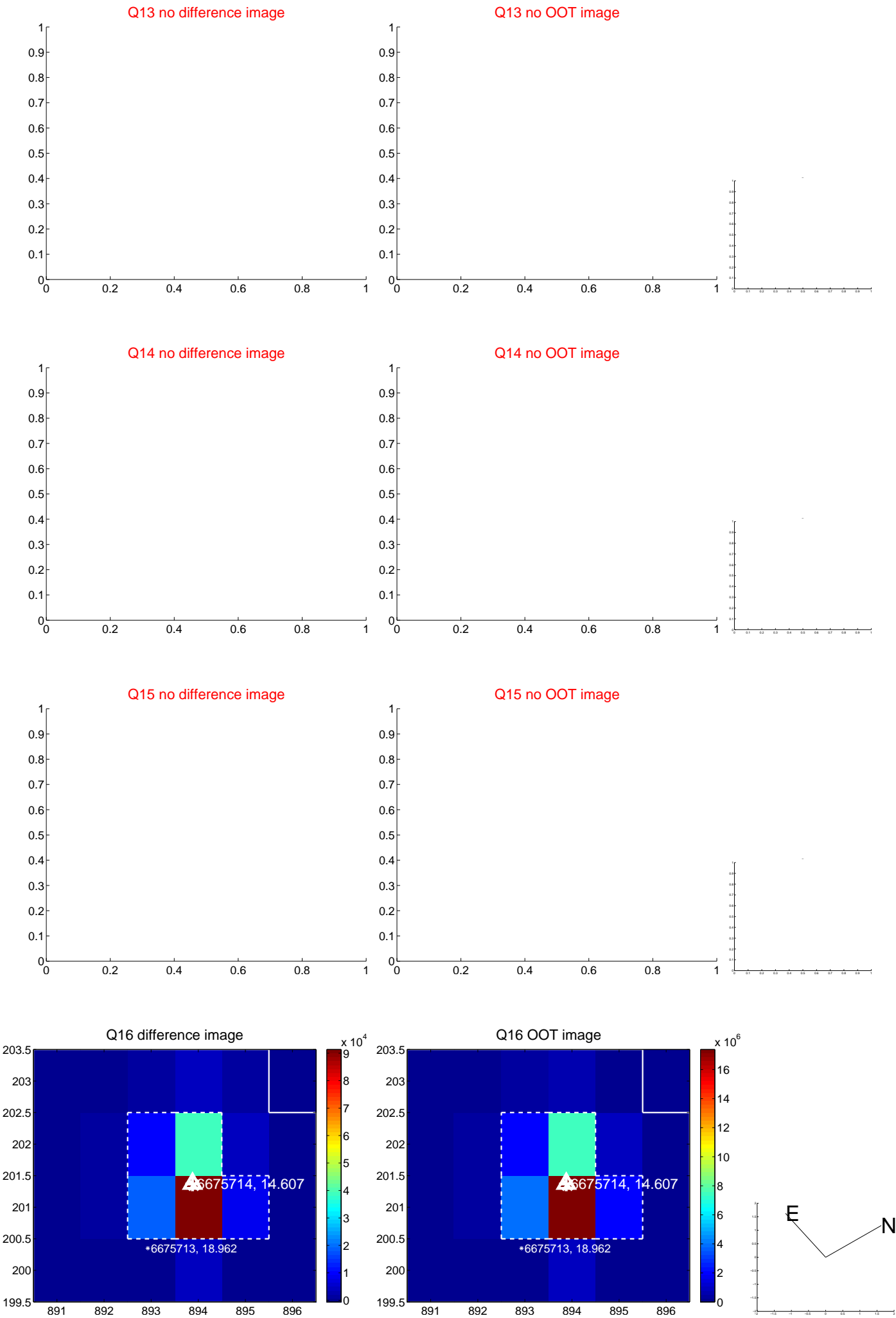
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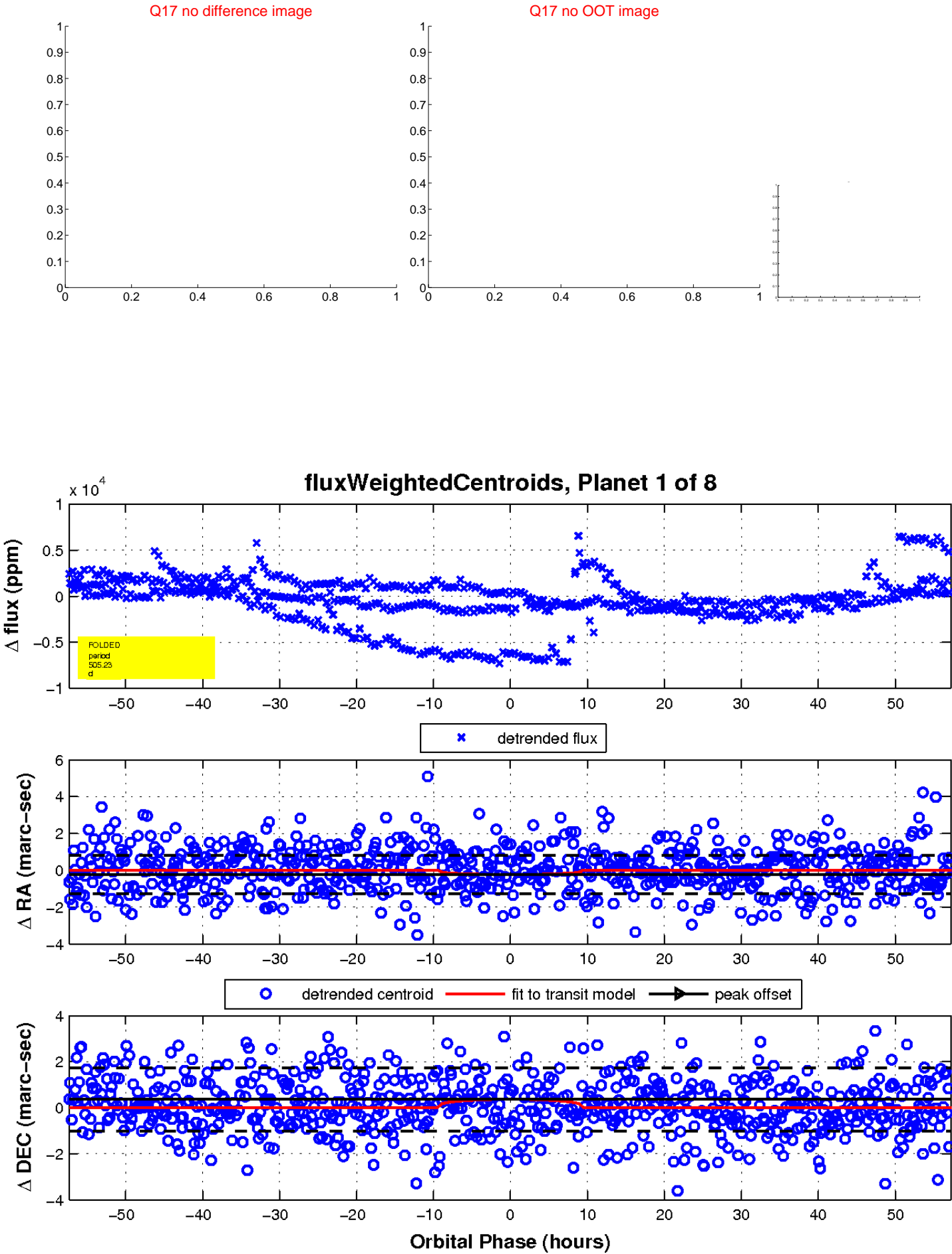
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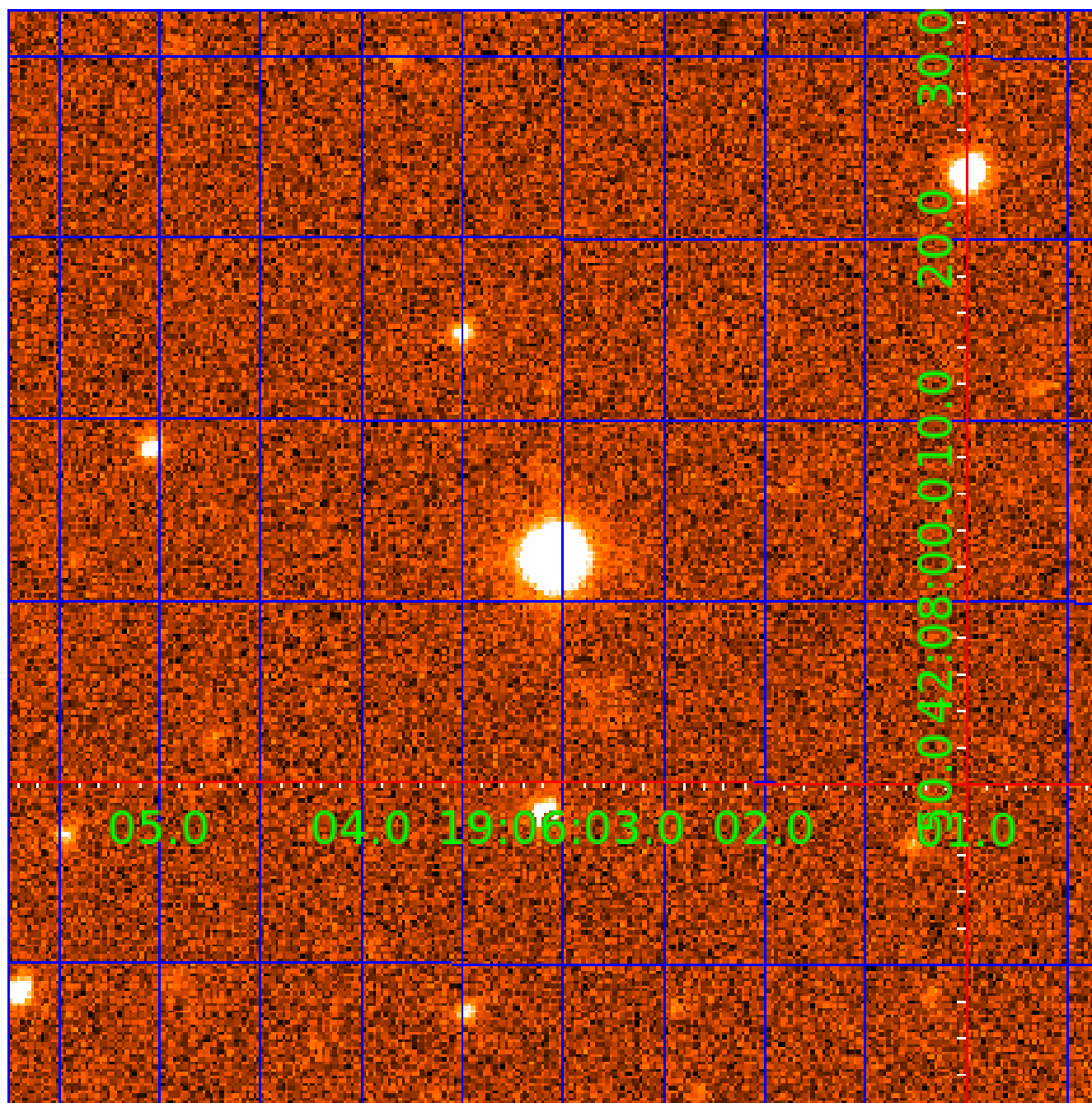


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UKIRT Image

Declination



KIC 006675714

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006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
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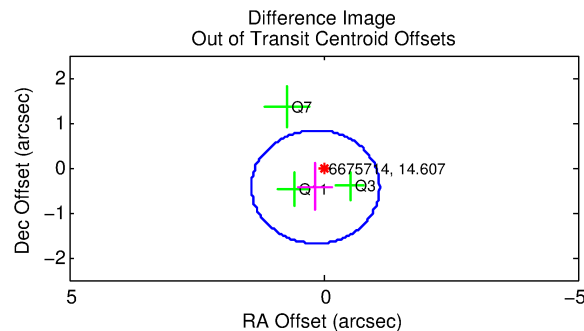
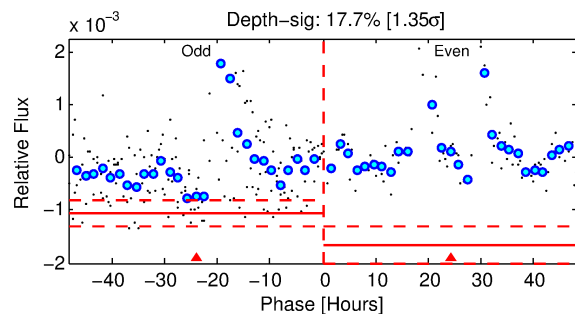
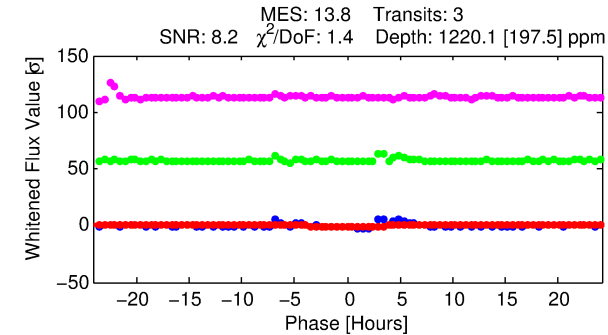
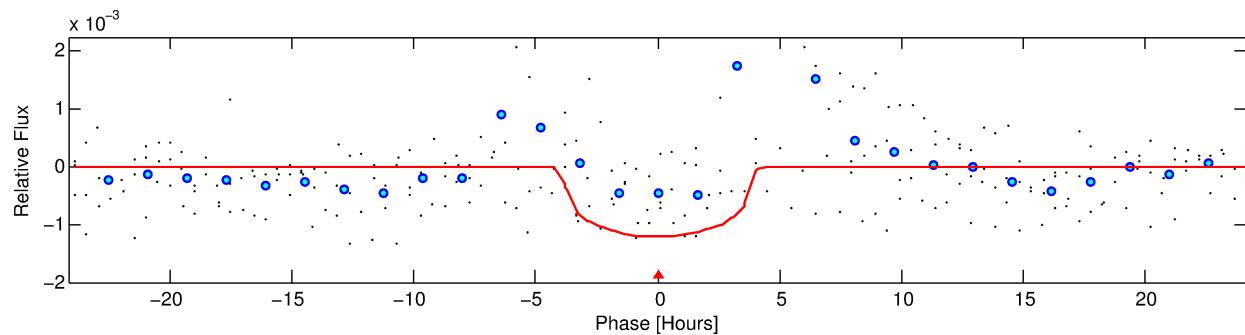
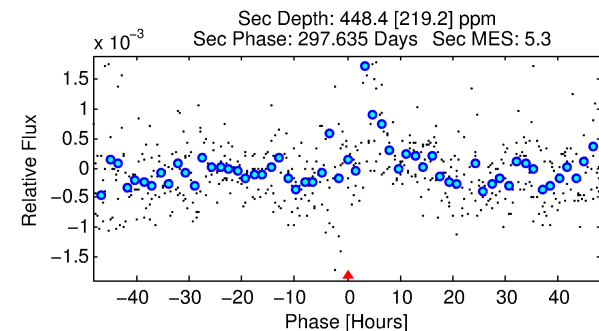
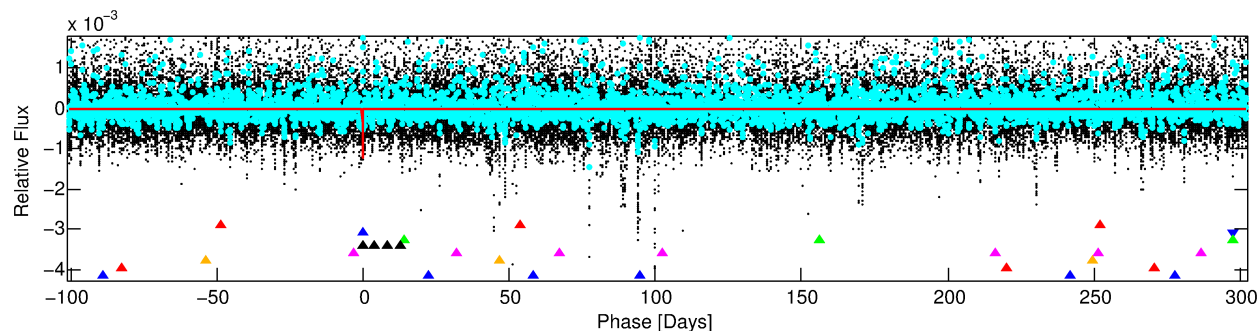
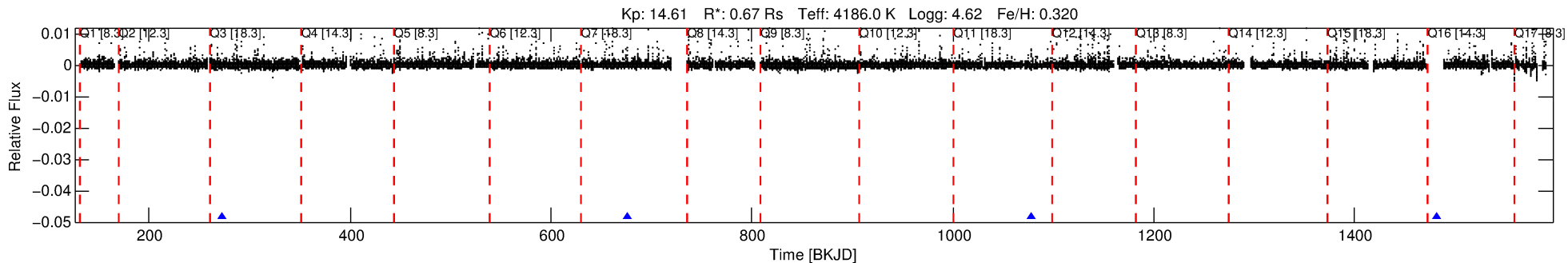
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-02

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 2 of 8 Period: 403.071 d



DV Fit Results:

Period = 403.07105 [0.00916] d
Epoch = 272.4597 [0.0129] BKJD
Rp/R* = 0.0328 [0.0212]
a/R* = 324.57 [613.16]
b = 0.59 [2.15]
Seff = 0.14 [0.03]
Teq = 156 [7] K
Rp = 2.40 [1.57] Re
a = 0.9402 [0.0635] AU
Ag = 37771.31 [52340.32] [0.72σ]
Teffp = 3365 [1171] K [2.74σ]

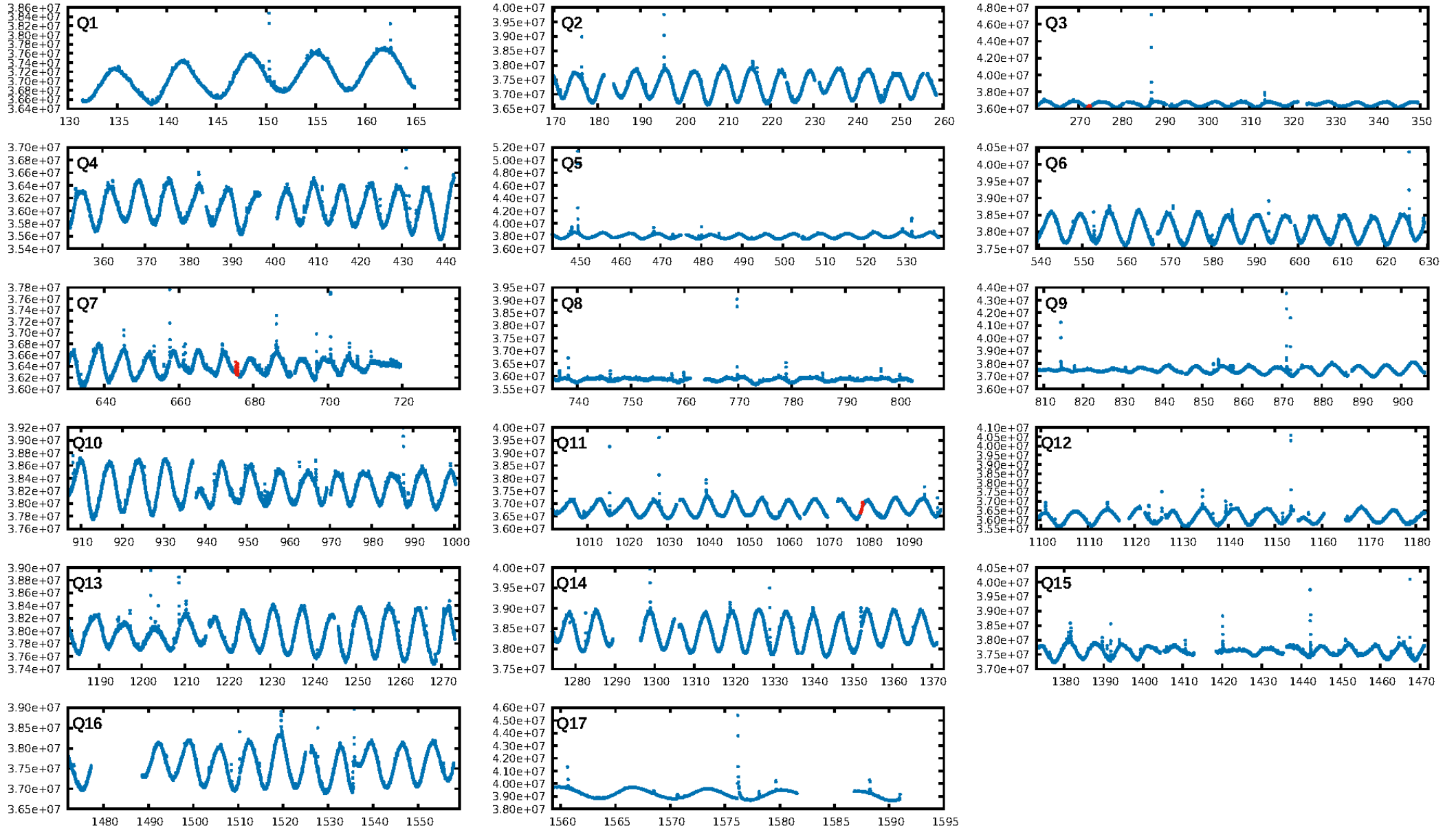
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.18σ]
LongPeriod-sig: 100.0% [67.82σ]
ModelChiSquare2-sig: 27.2%
ModelChiSquareGof-sig: 89.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.5529
Centroid-sig: 88.1%
Centroid-so: 0.221 arcsec [0.45σ]
OotOffset-rm: 0.456 arcsec [1.09σ]
OotOffset-st: 0/3/0/0 [3]
KicOffset-rm: 0.304 arcsec [0.55σ]
KicOffset-st: 0/3/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

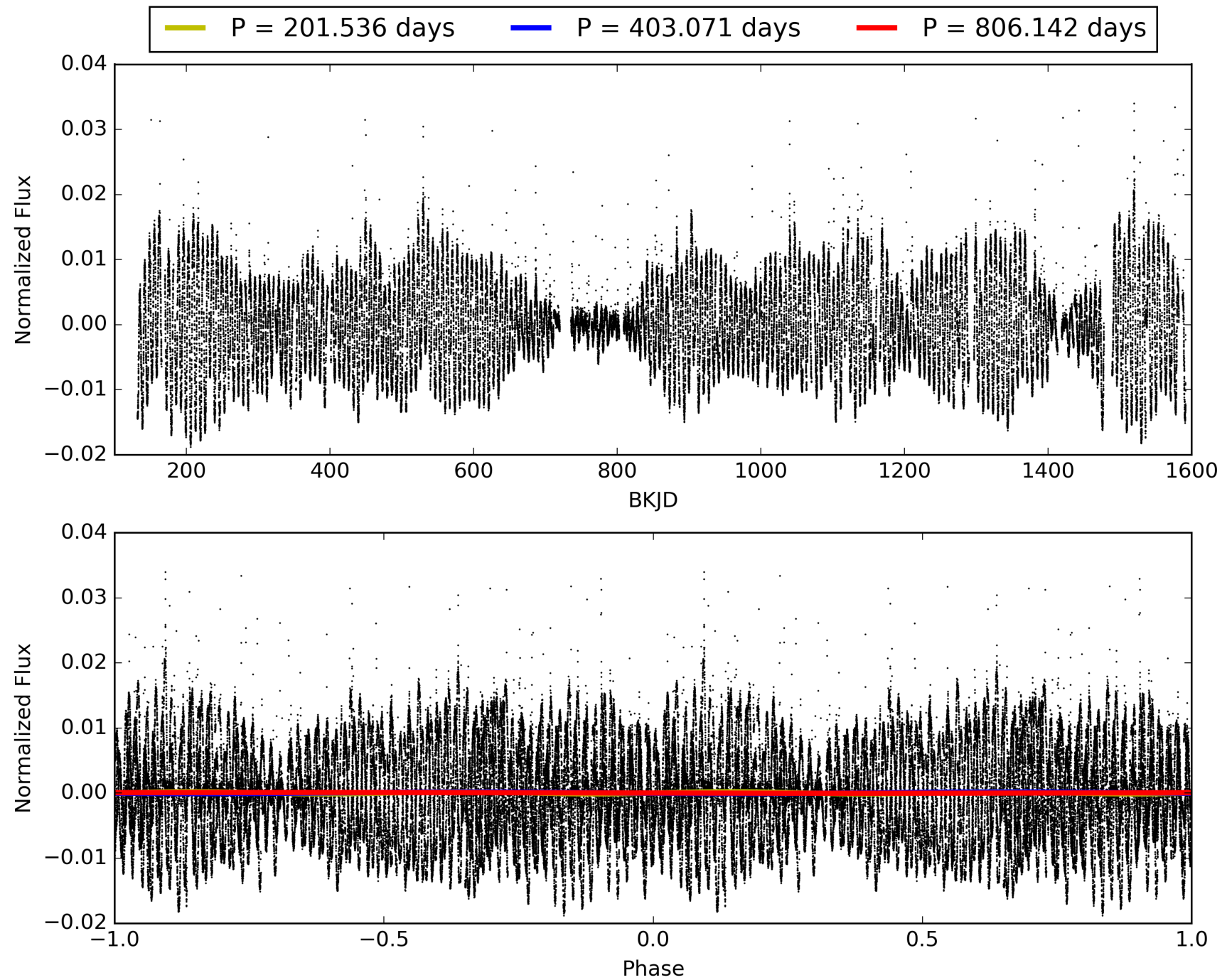
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:01:06 Z

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

TCE 006675714-02, PDC Light Curves

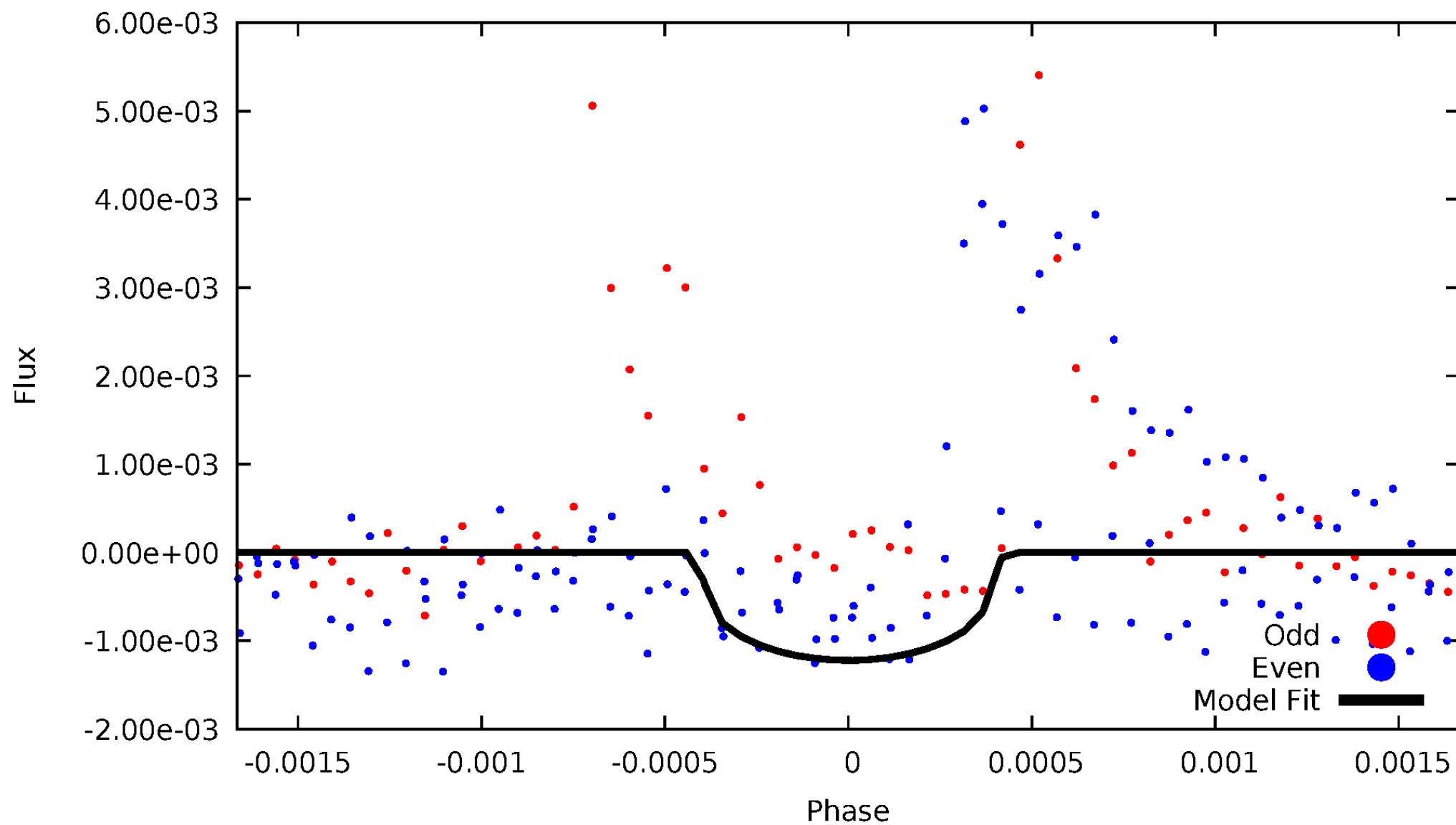


TCE 006675714-02



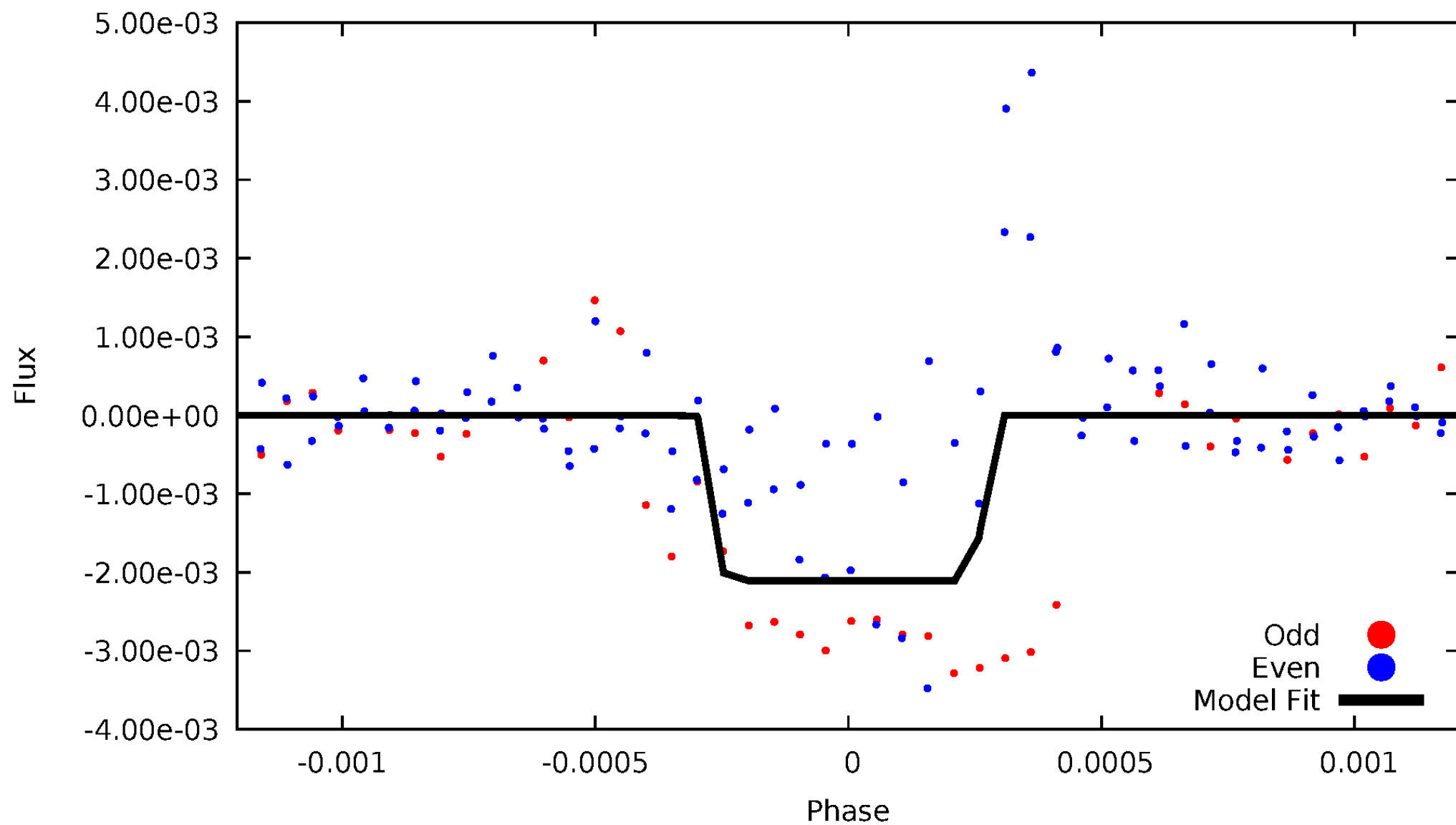
DV Odd/Even

TCE 006675714-02



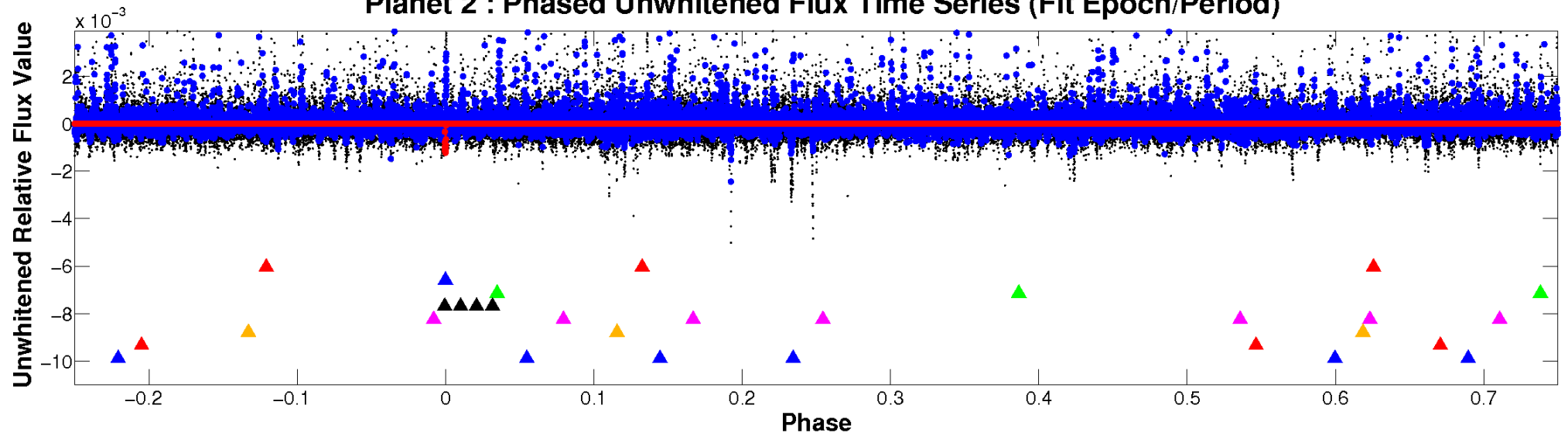
ALT Odd/Even

TCE 006675714-02

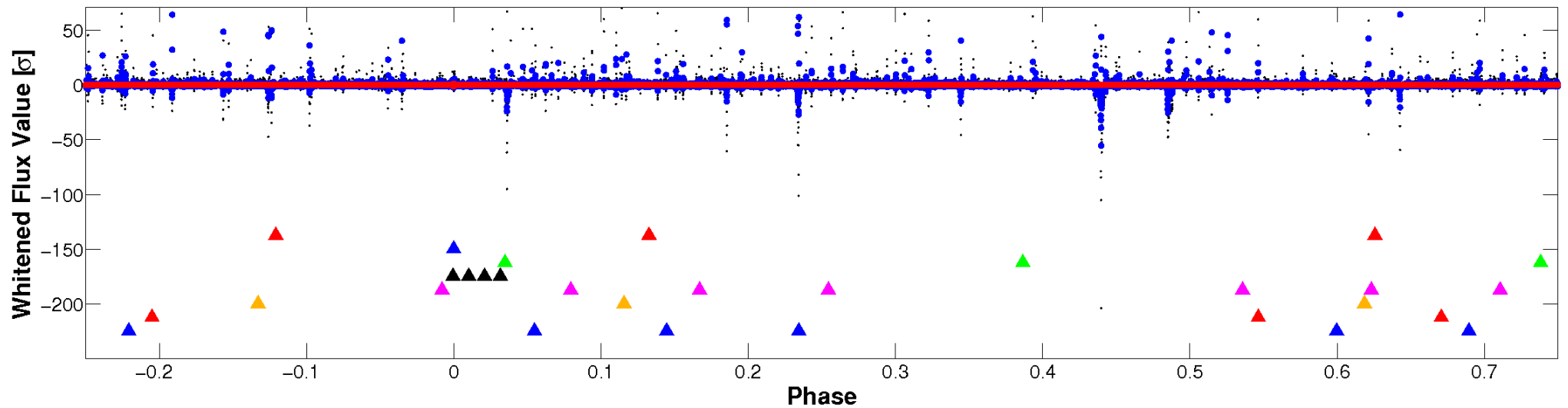


Non-Whitened Vs. Whitened Light Curve

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

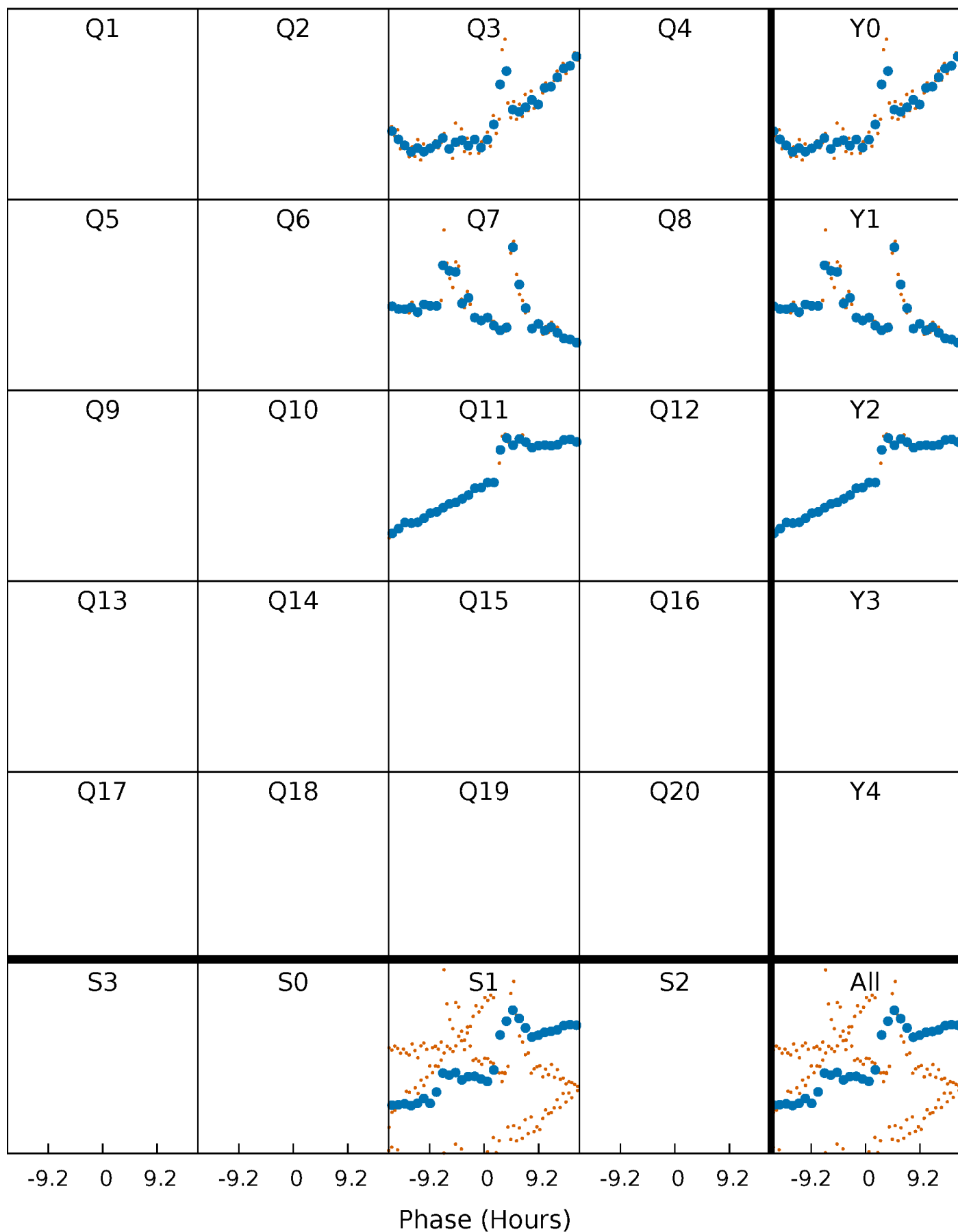


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



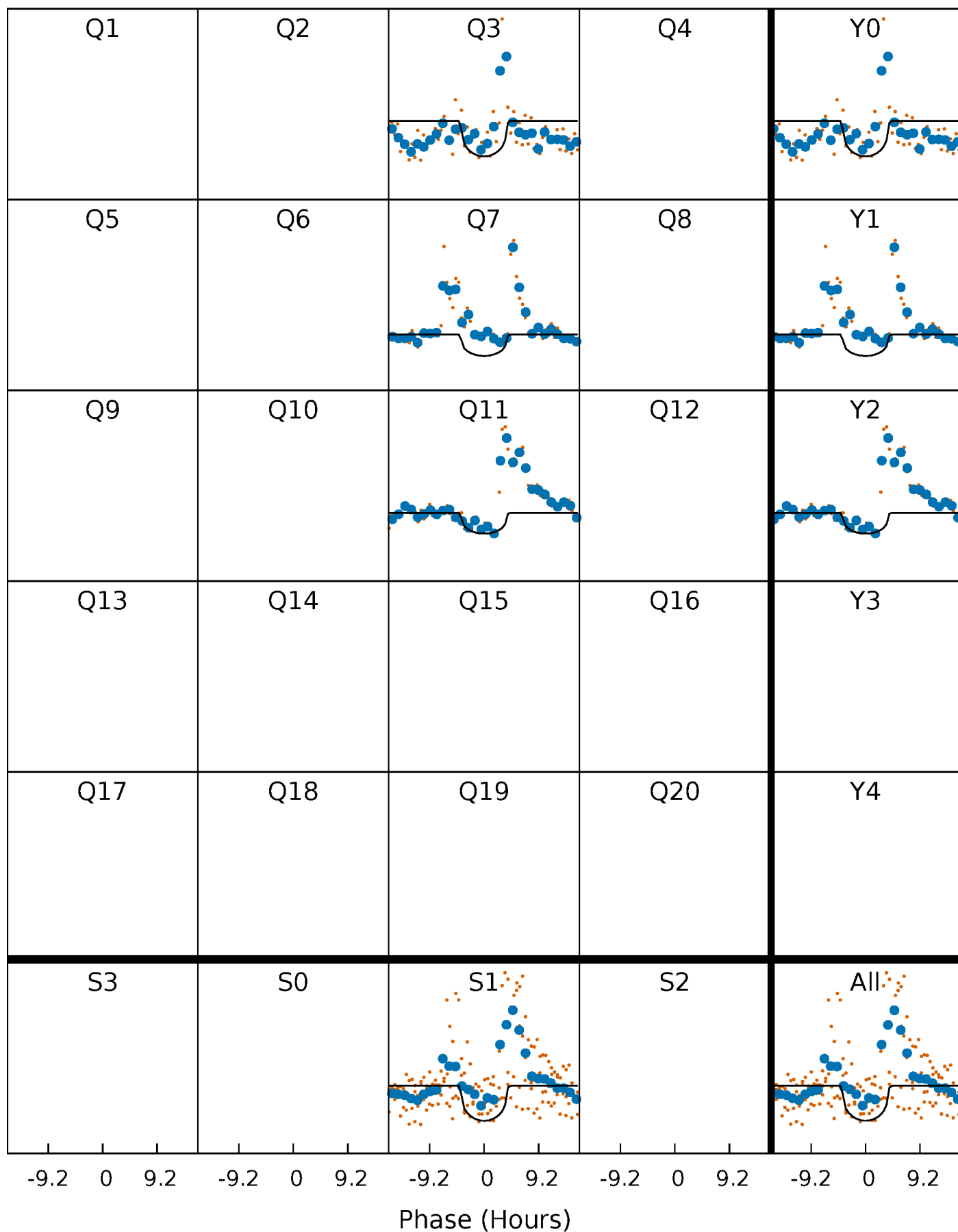
PDC Quarter-Phased Transit Curves

TCE 006675714-02 $P=403.071050$ Days $T_0=272.459716$ (BKJD)



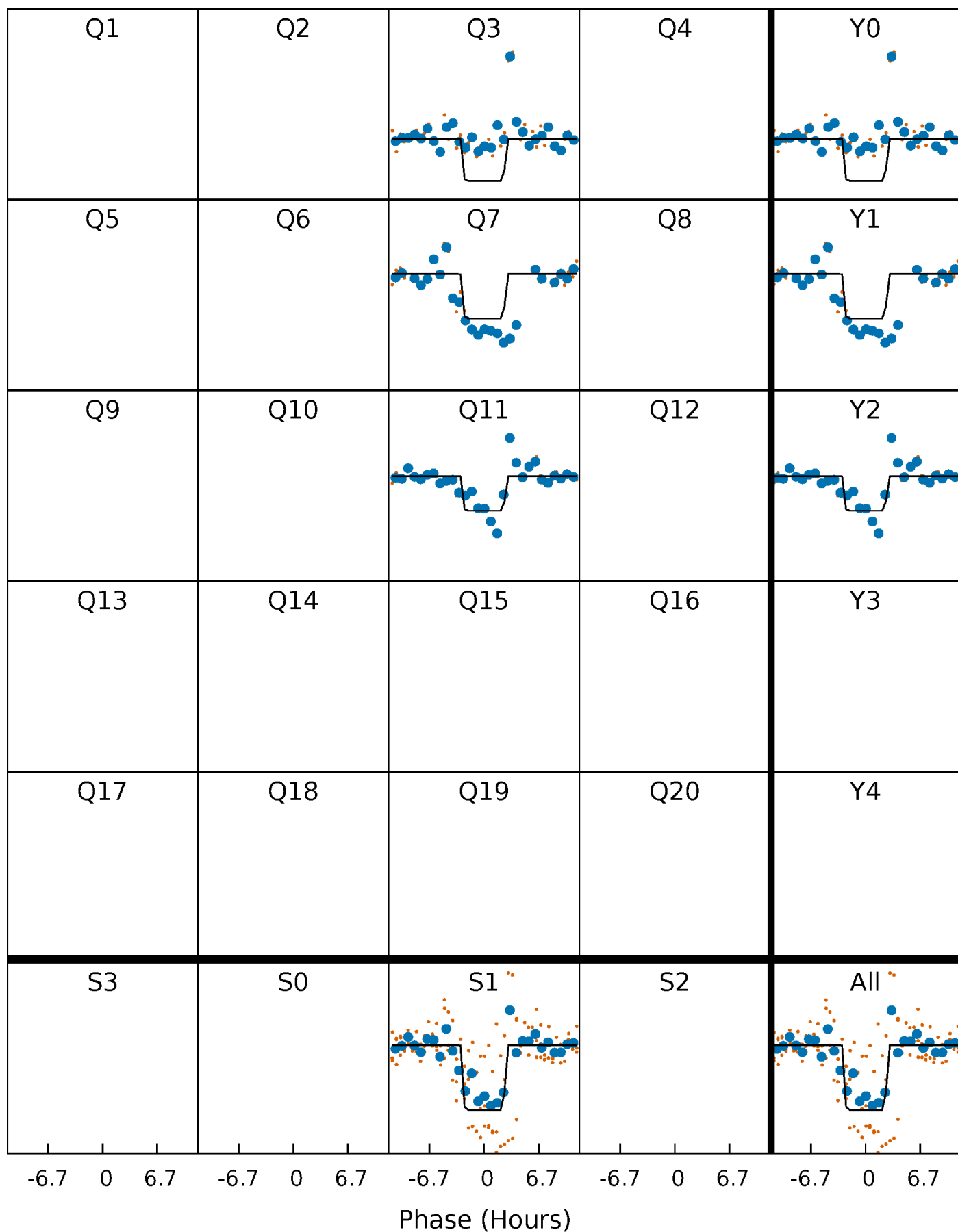
DV Quarter-Phased Transit Curves

TCE 006675714-02 P=403.071050 Days $T_0=272.459716$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

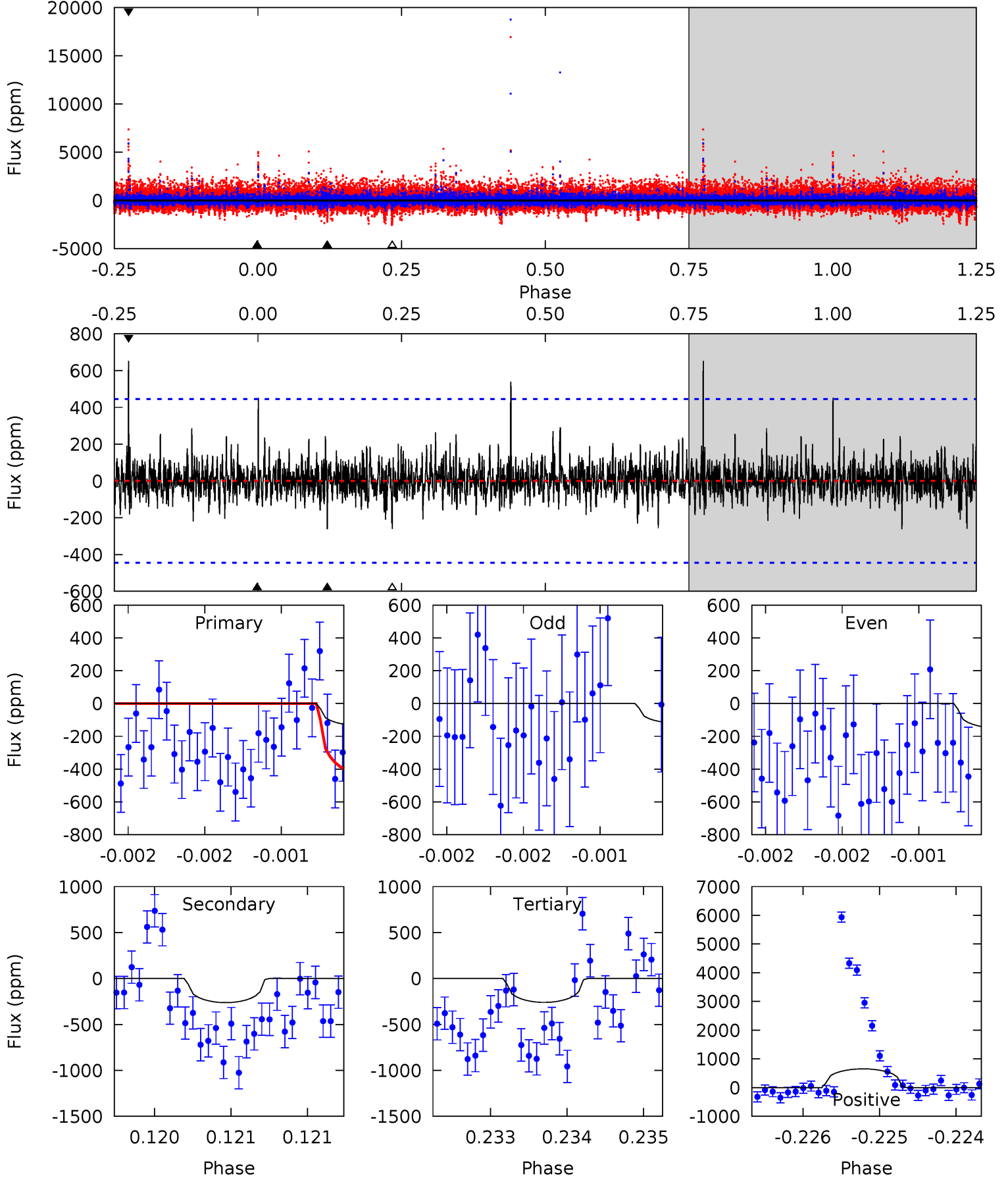
TCE 006675714-02 P=403.072405 Days $T_0=272.460915$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-02, P = 403.071050 Days, E = 272.459716 Days

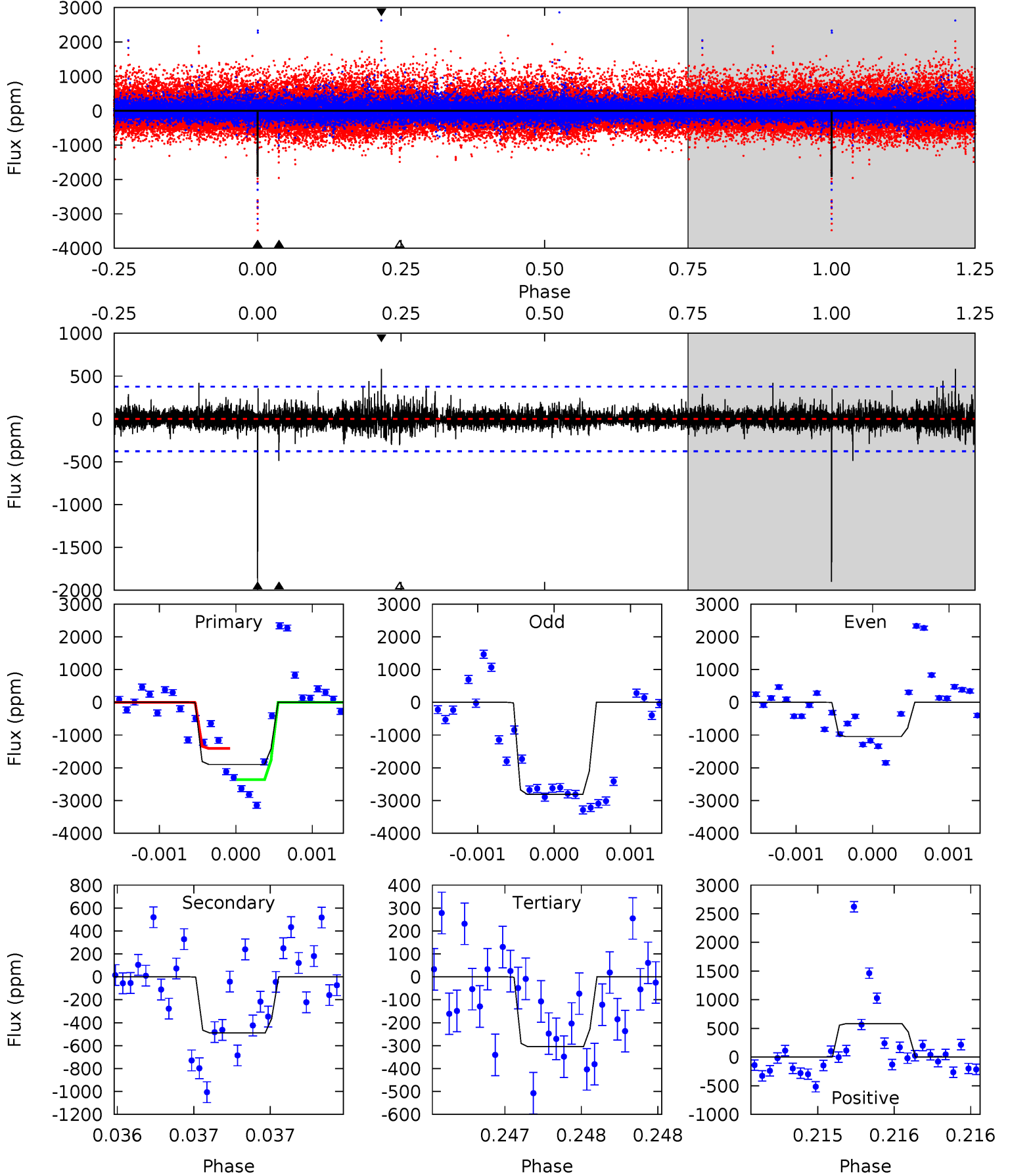
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.64	3.25	3.21	8.05	5.49	3.35	0.88	-1.57	-6.41	0.03	-4.80	0.12	0.58	0.71	1.71



Alt Model-Shift Uniqueness Test

006675714-02, P = 403.072405 Days, E = 272.460915 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.9	7.19	4.48	8.59	5.55	3.45	0.97	23.4	19.3	2.71	-1.40	12.7	0.84	0.24	7.04



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-263 ± 81	$2.49^{+1.45}_{-1.35}$	216^{+9}_{-9}	3222^{+1008}_{-410}	19837^{+80600}_{-12219}
Alt.	-489 ± 68	$3.43^{+1.60}_{-1.60}$	216^{+9}_{-9}	3250^{+695}_{-346}	19762^{+46545}_{-10498}

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 $A_{obs} \gg 1.0$

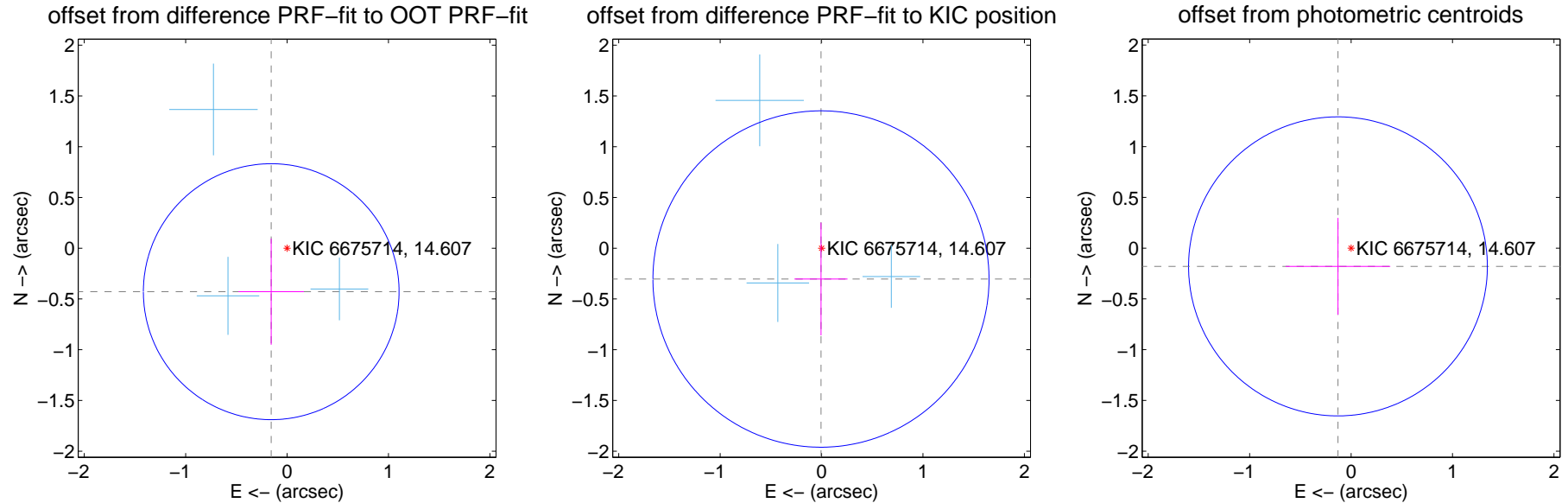
DV Centroid Data

Supplemental centroid analysis for 006675714-02. Kepler magnitude: 14.61. Transit SNR 8.23

There are 3 quarters with good PRF difference image offsets

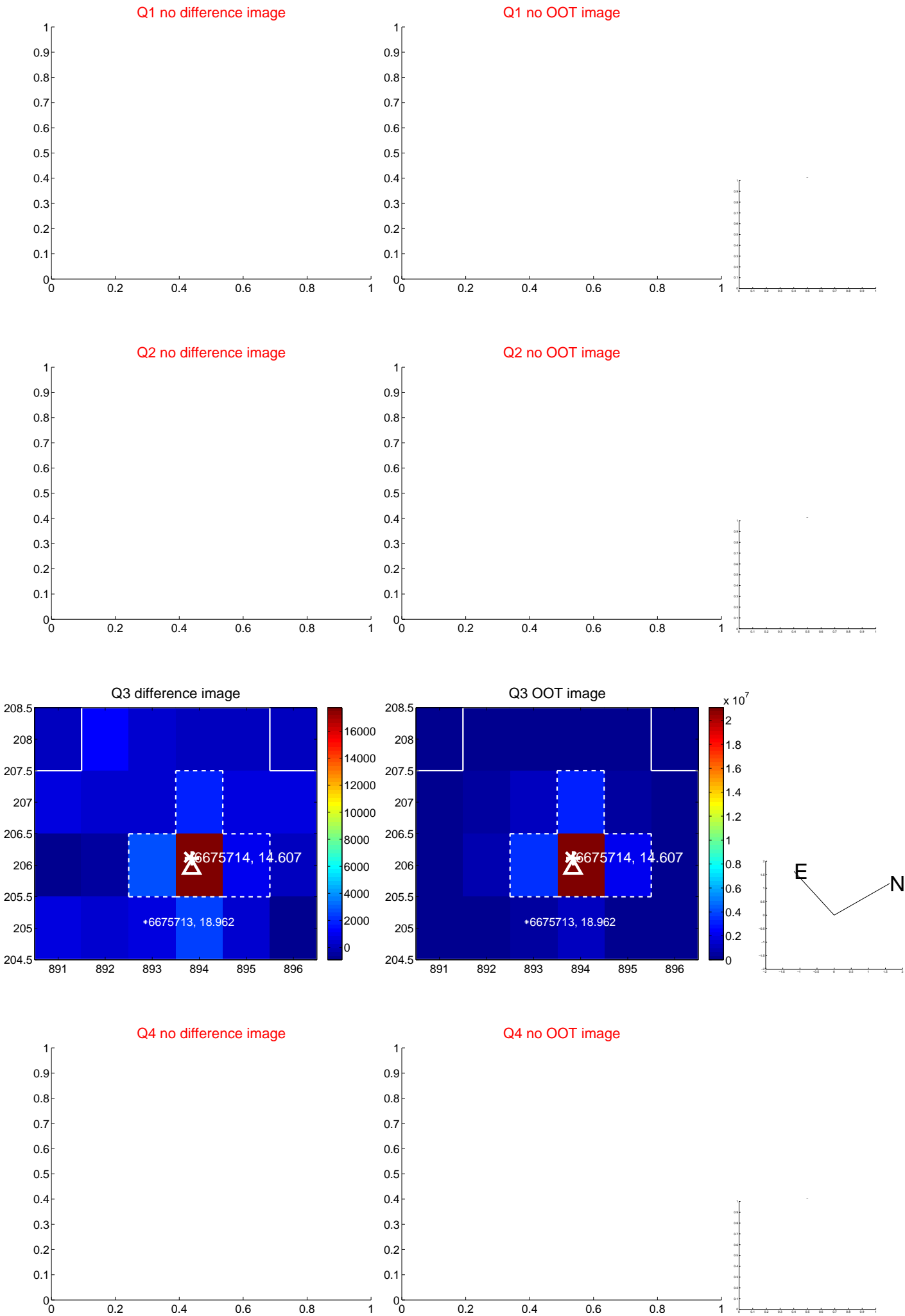
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.456 ± 0.420	1.09	0.156 ± 0.323	-0.428 ± 0.522
PRF-fit source offset from KIC position	0.304 ± 0.552	0.55	0.006 ± 0.261	-0.304 ± 0.555
photometric centroid source offset	0.22 ± 0.49	0.45	0.13 ± 0.52	-0.18 ± 0.48



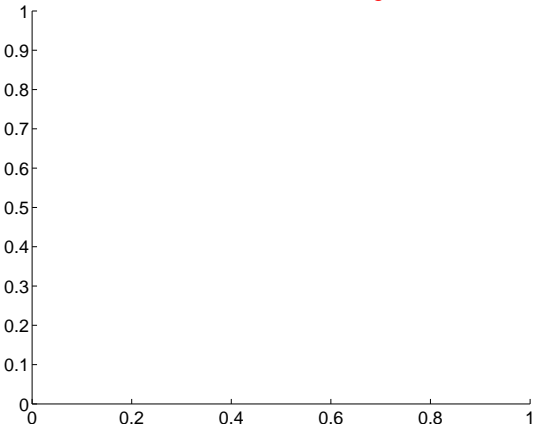
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

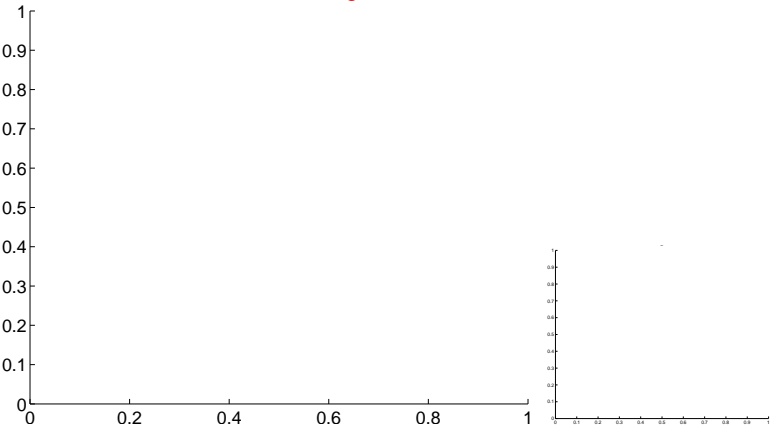


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

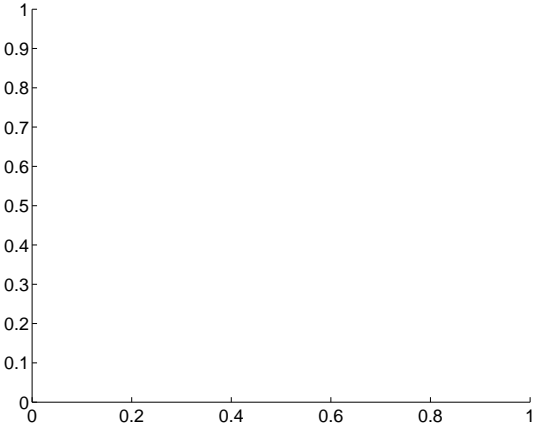
Q5 no difference image



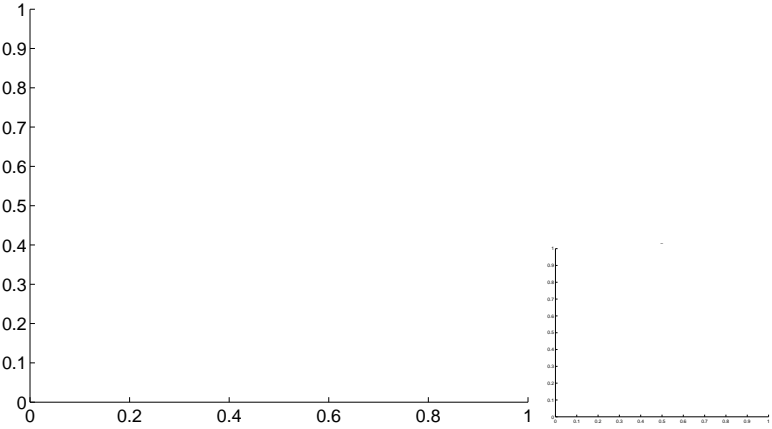
Q5 no OOT image



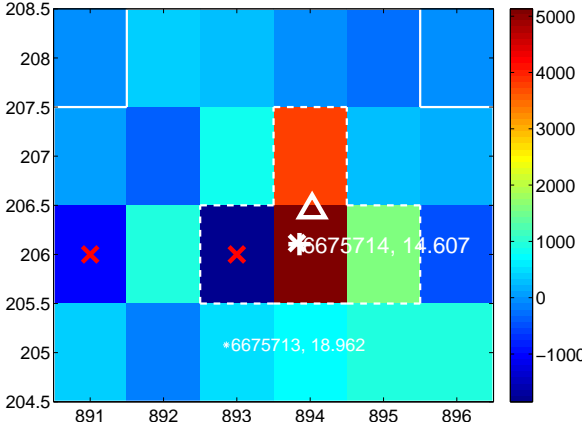
Q6 no difference image



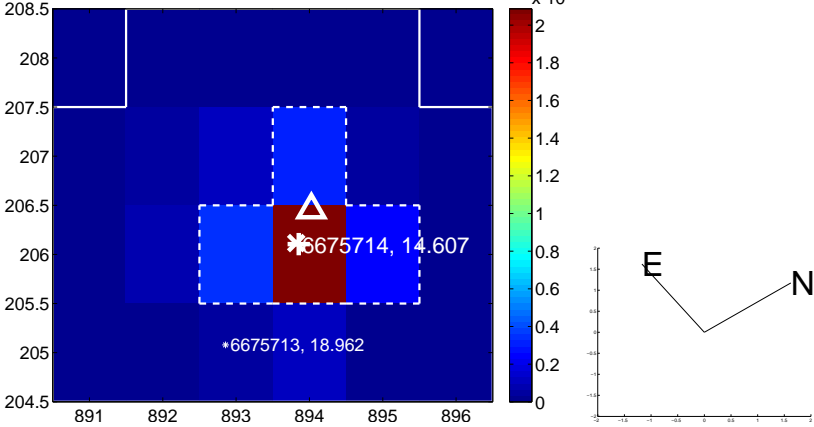
Q6 no OOT image



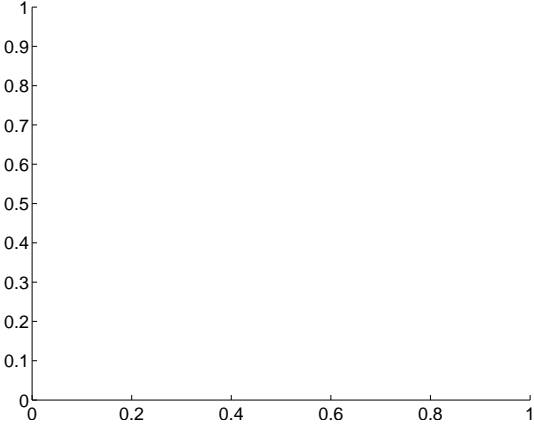
Q7 difference image



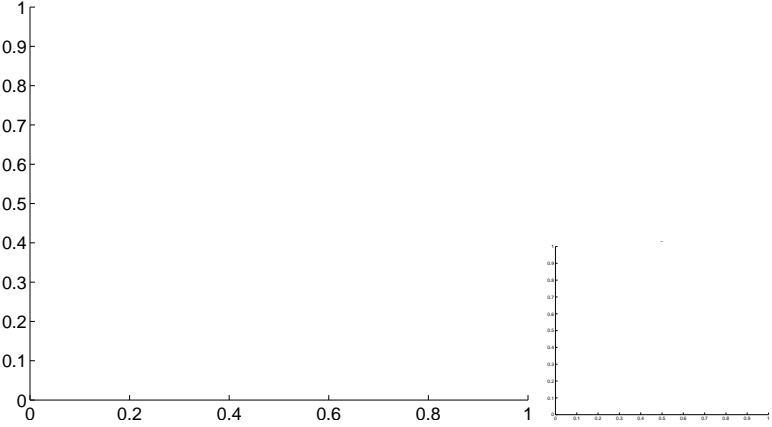
Q7 OOT image



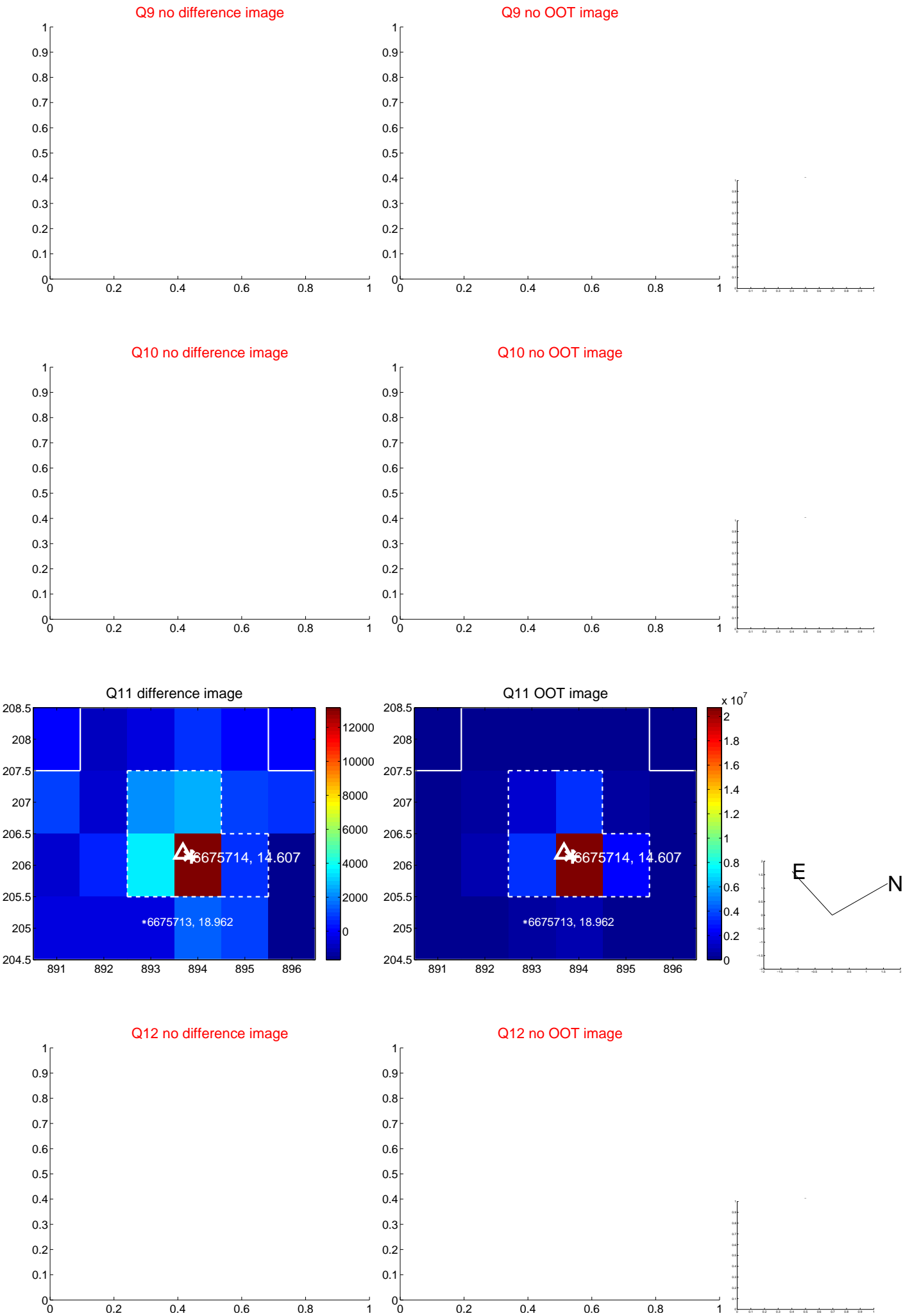
Q8 no difference image



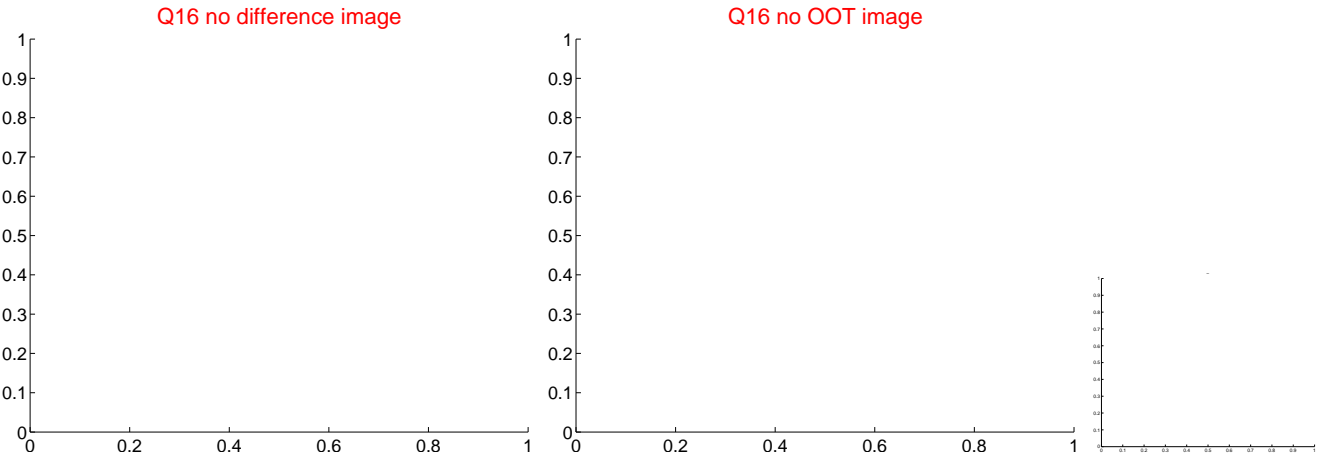
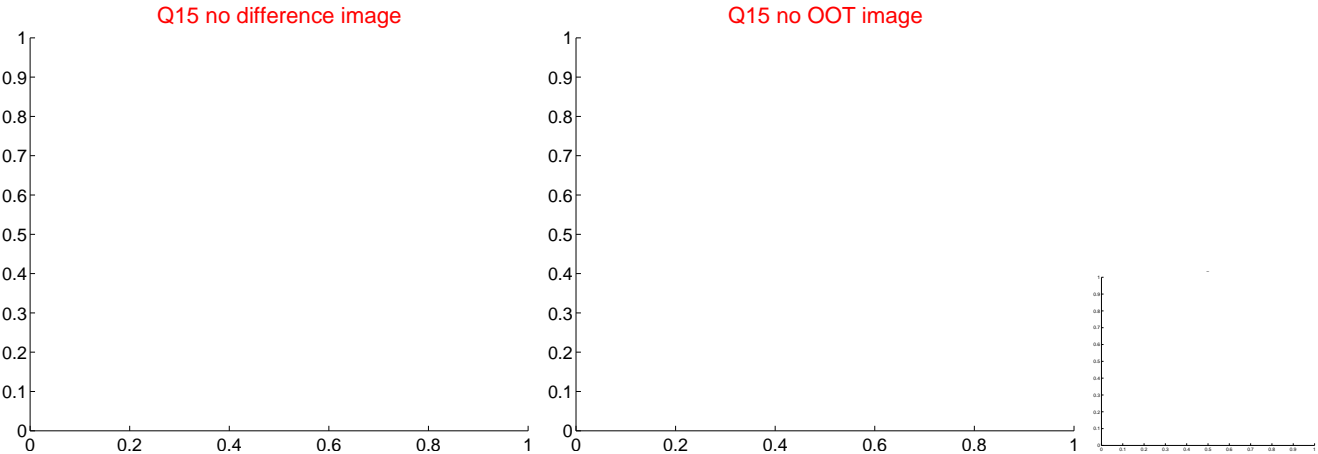
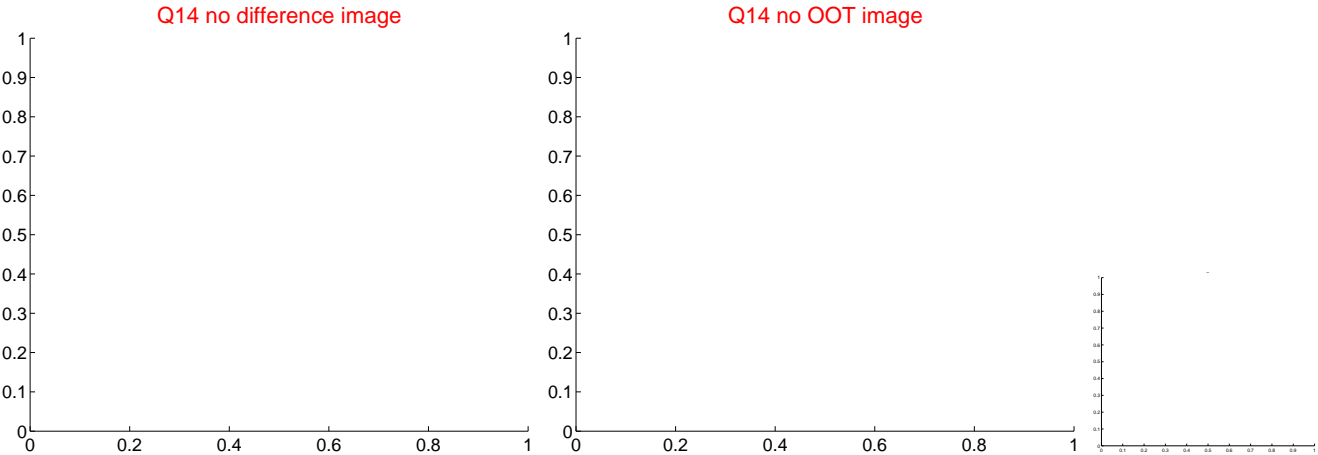
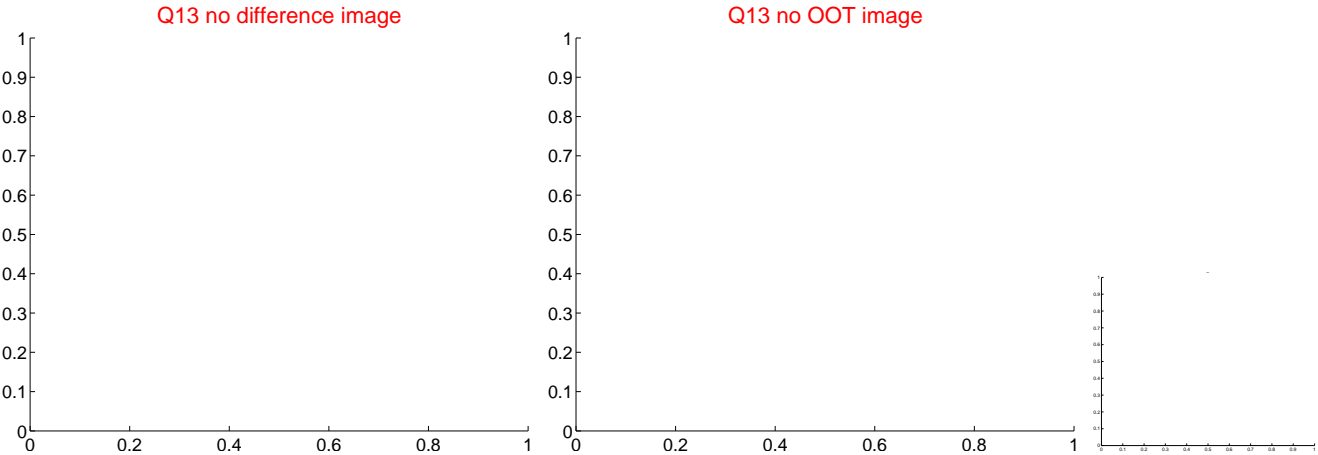
Q8 no OOT image



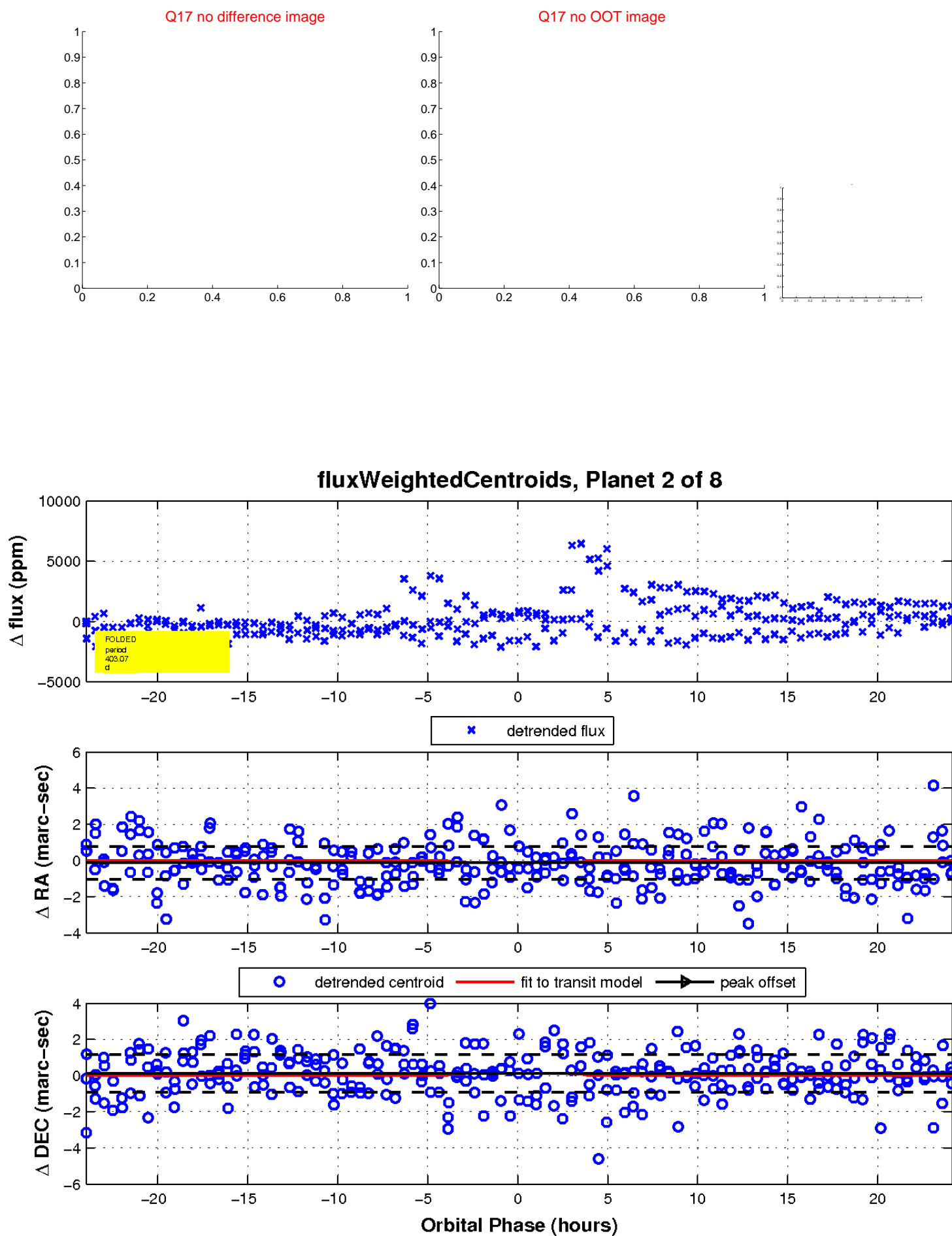
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

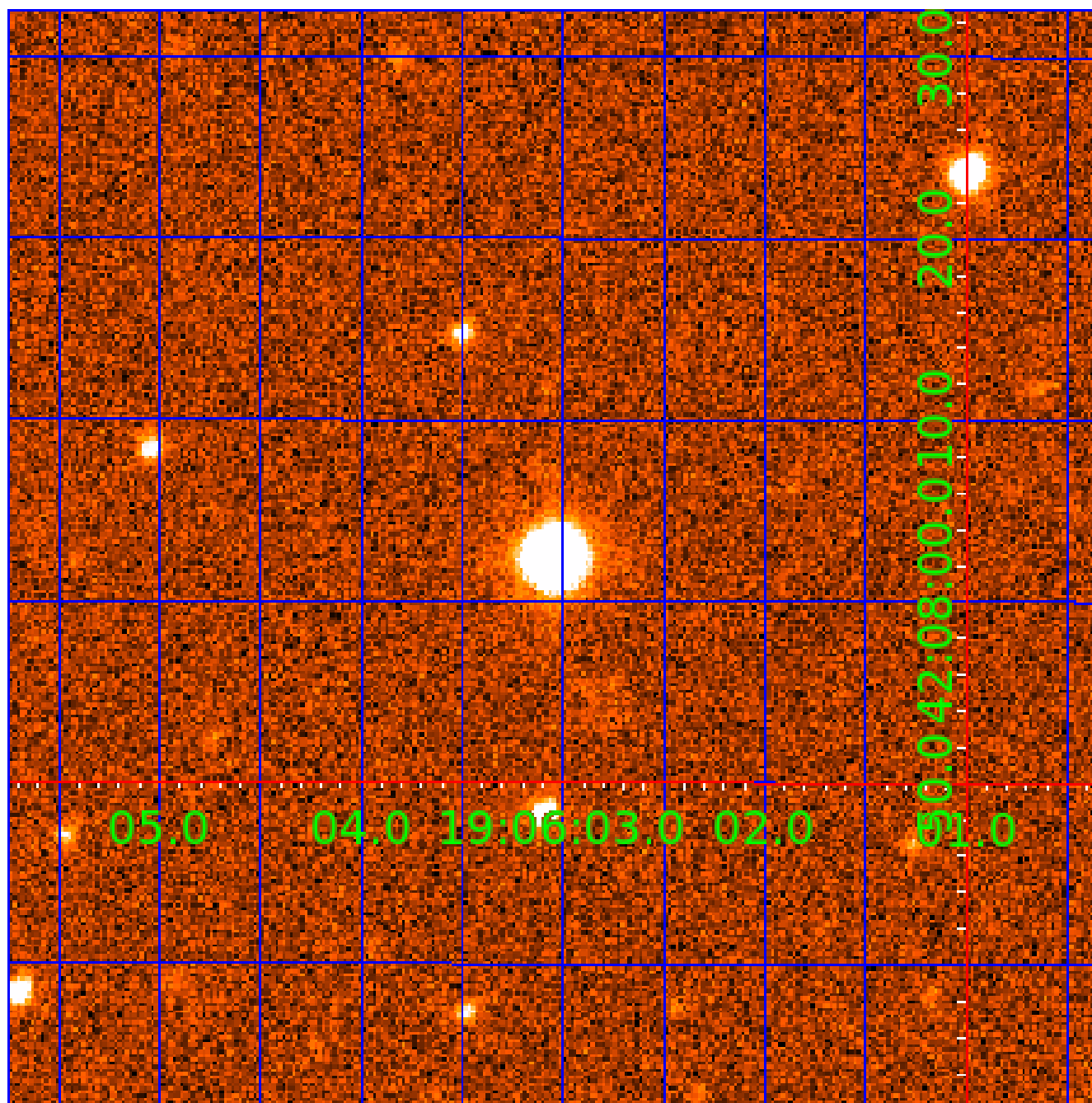


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
006675714-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

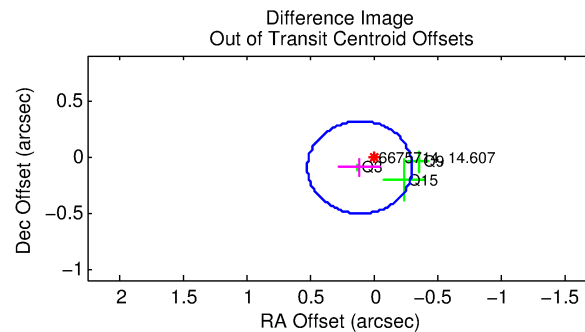
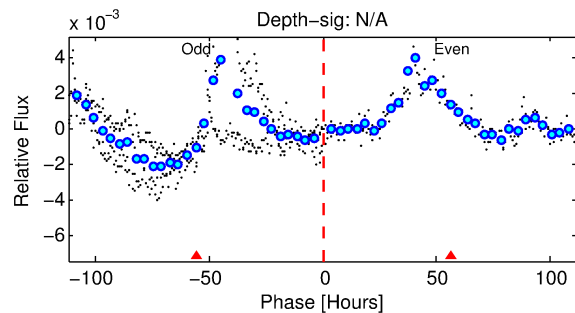
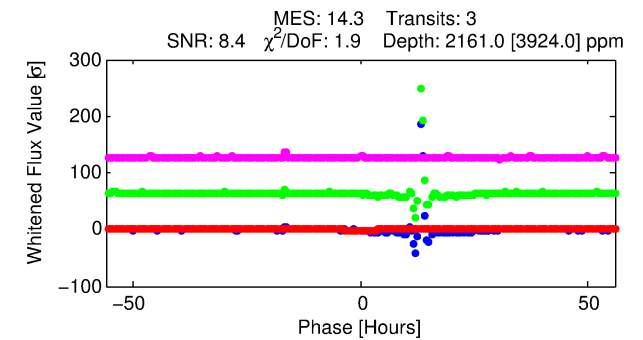
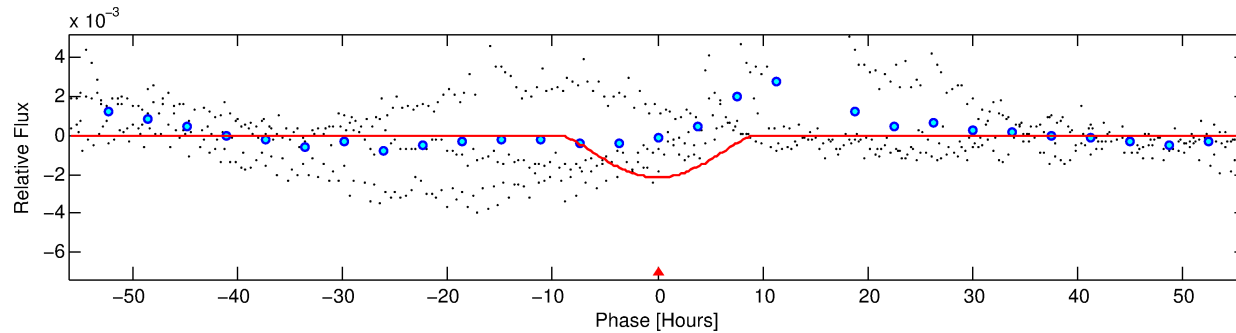
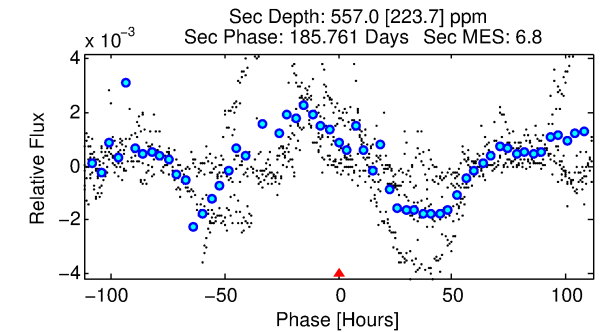
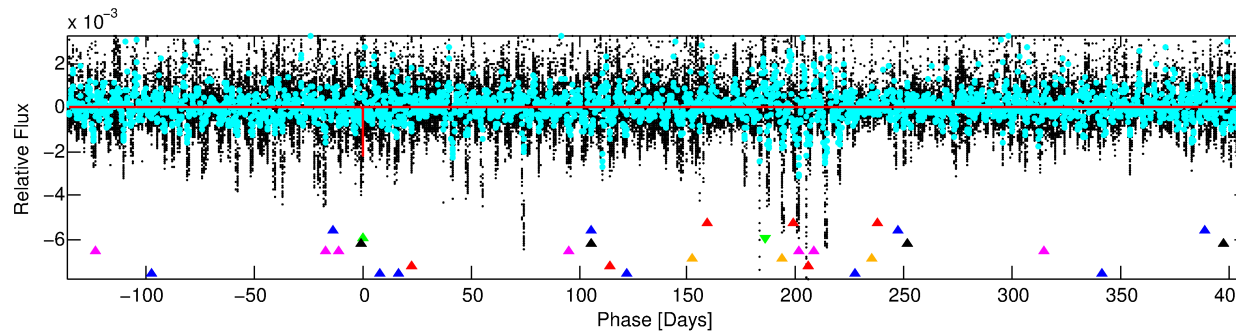
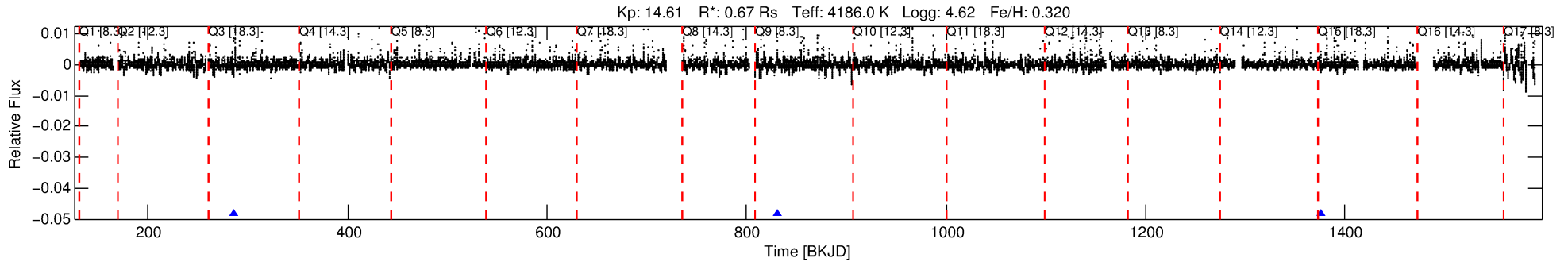
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-03

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 3 of 8 Period: 544.832 d



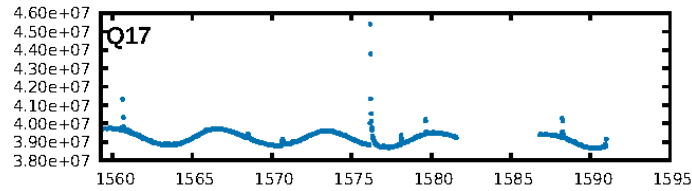
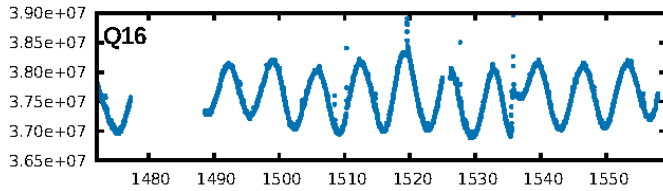
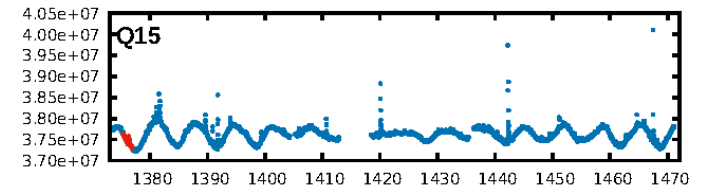
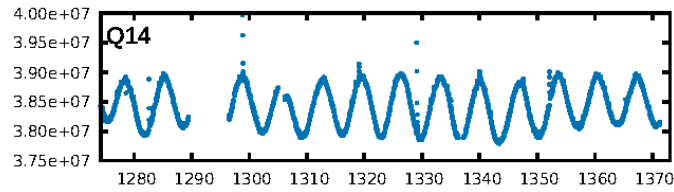
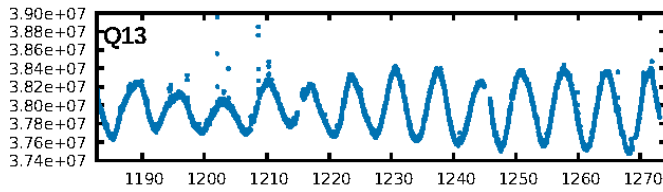
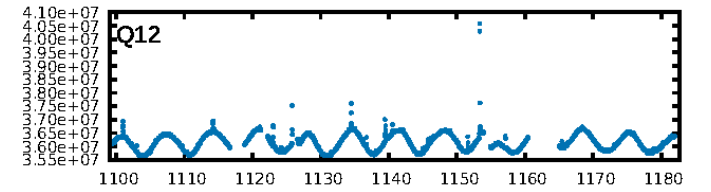
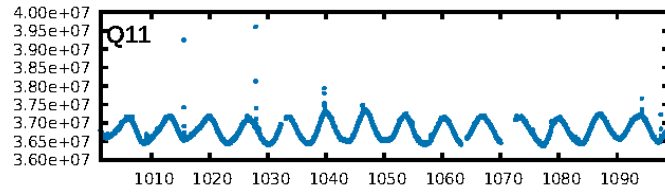
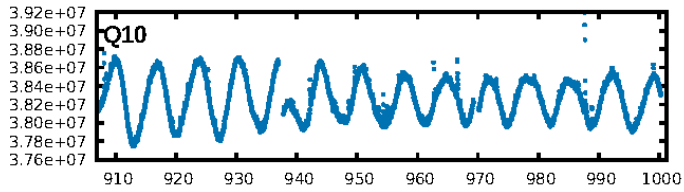
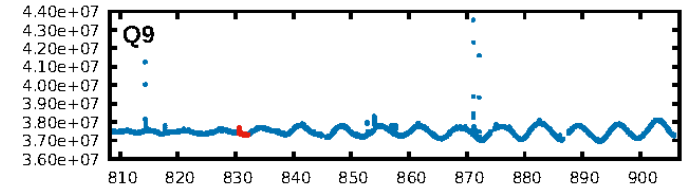
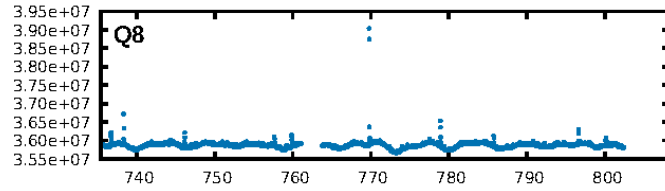
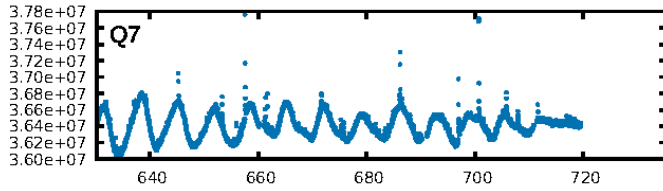
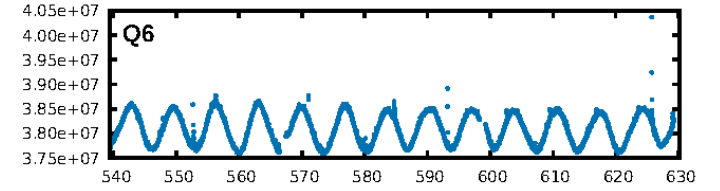
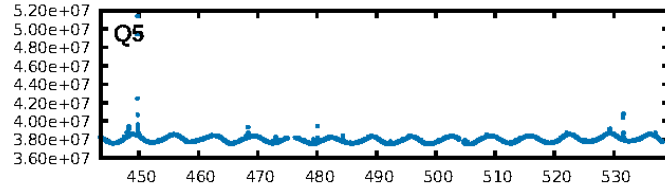
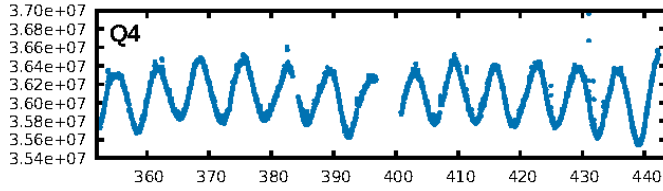
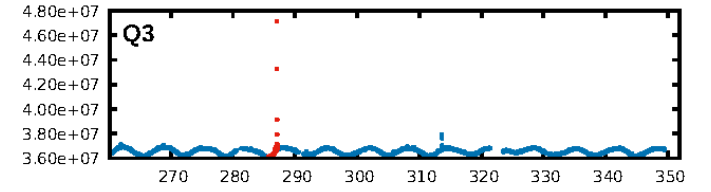
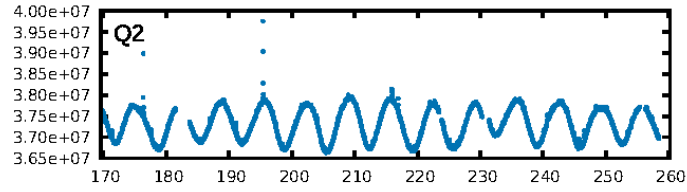
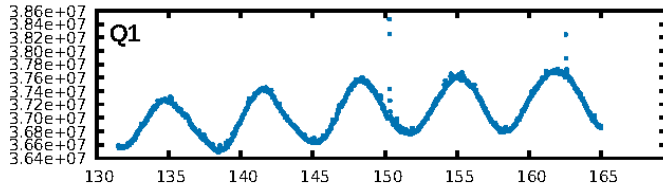
DV Fit Results:

Period = 544.83186 [0.29777] d
Epoch = 286.4986 [0.3451] BKJD
Rp/R* = 0.0856 [2.8798]
a/R* = 94.51 [630.63]
b = 1.00 [4.03]
Seff = 0.09 [0.02]
Teq = 141 [6] K
Rp = 6.28 [211.18] Re
a = 1.1493 [0.0776] AU
Ag = 10279.54 [691868.20] [0.01 σ]
Teffp = 2198 [36990] K [0.06 σ]

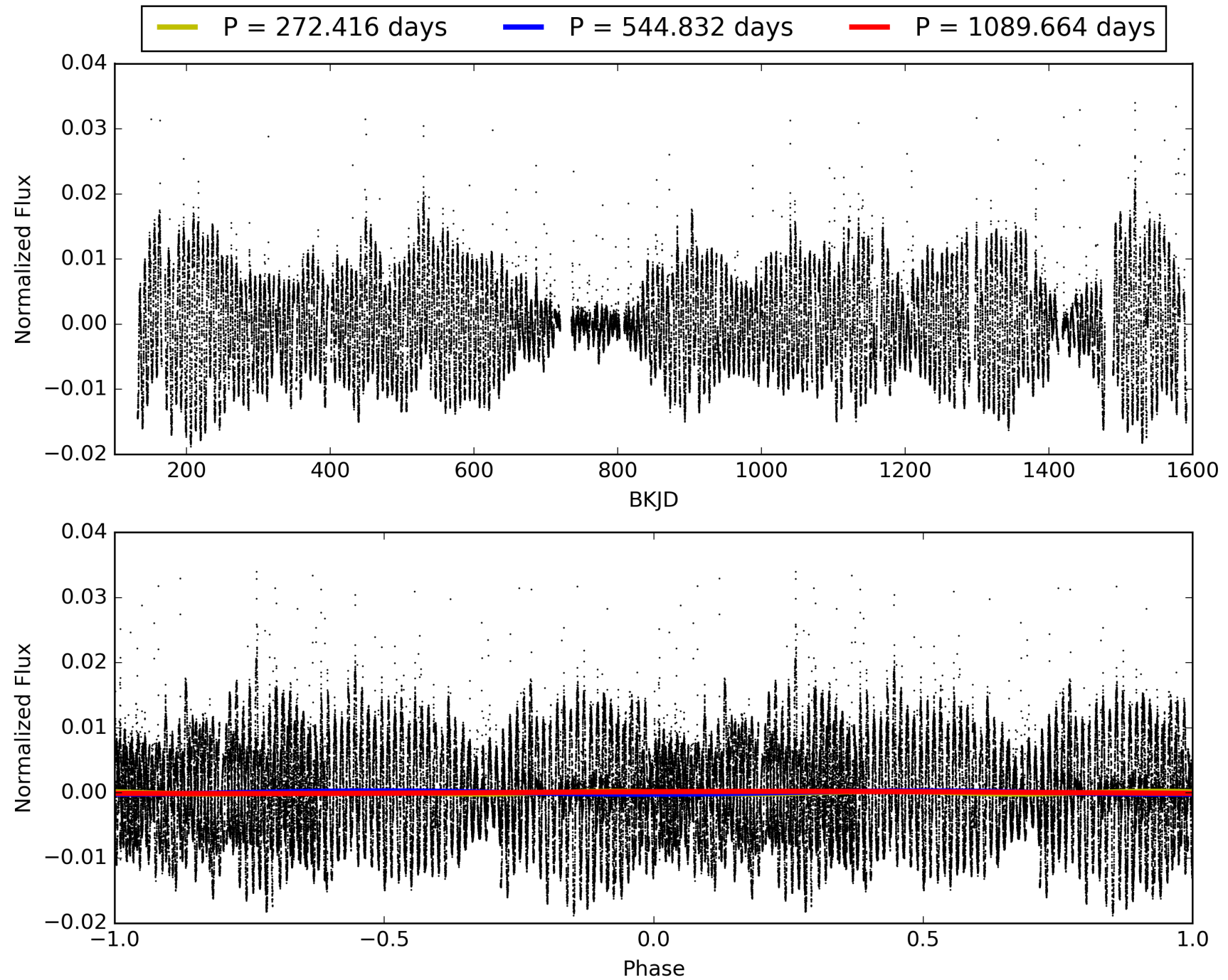
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [35.55 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 2.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.6461
Centroid-sig: 19.4%
Centroid-so: 0.342 arcsec [1.39 σ]
OotOffset-rm: 0.145 arcsec [1.05 σ]
OotOffset-st: 0/2/0/1 [3]
KicOffset-rm: 0.055 arcsec [0.57 σ]
KicOffset-st: 0/2/0/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 0.67 [2/3]

TCE 006675714-03, PDC Light Curves

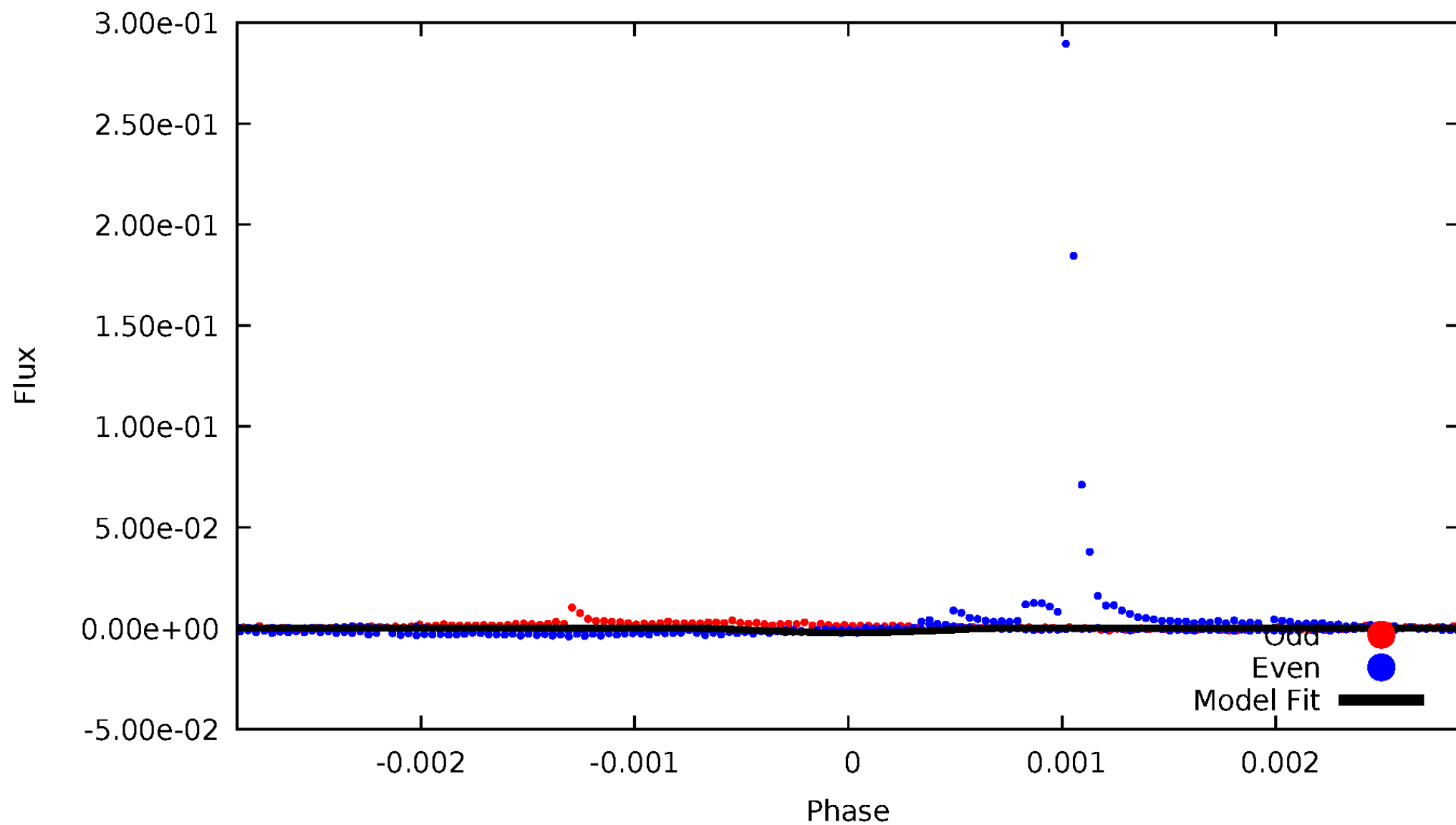


TCE 006675714-03



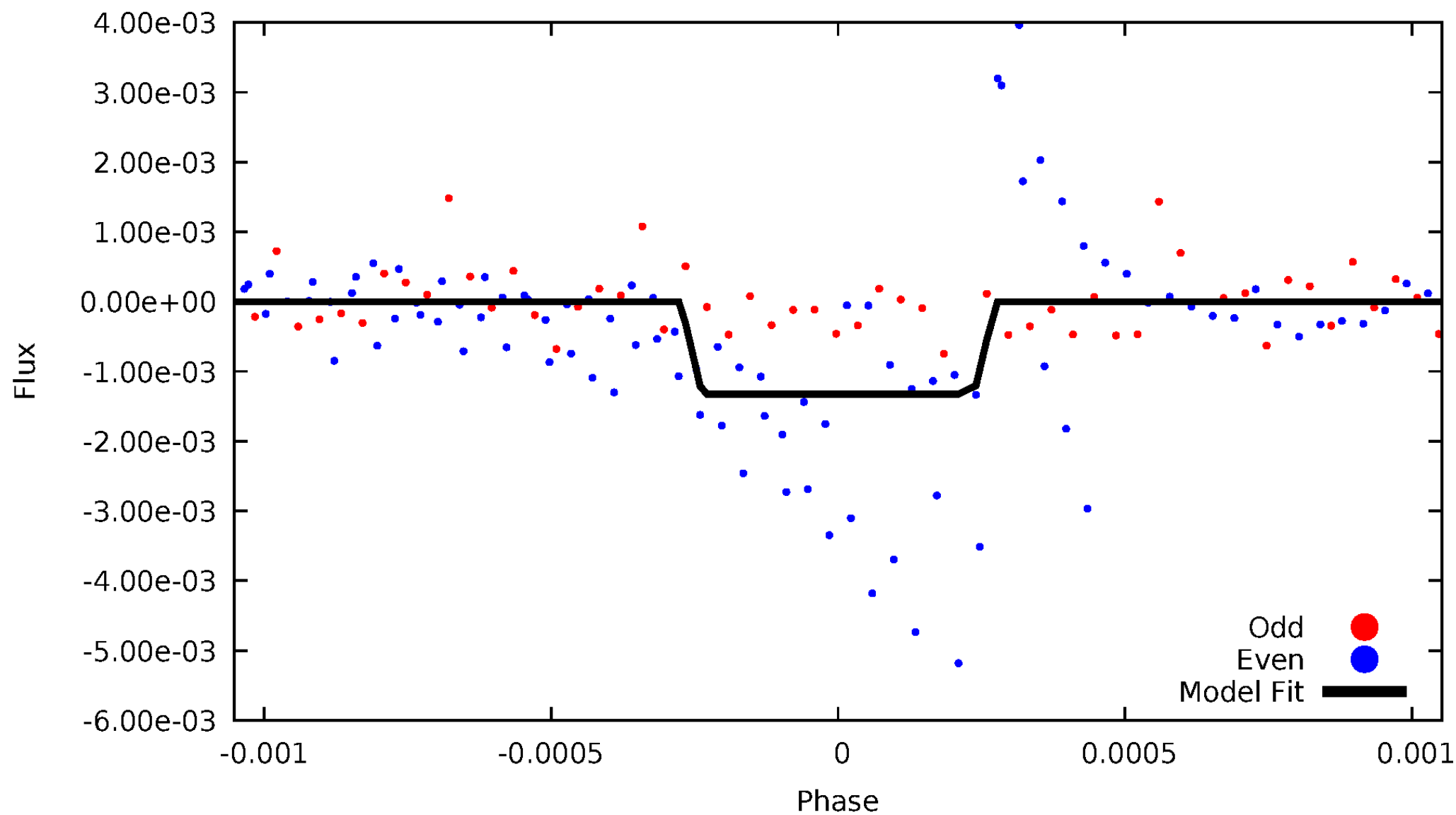
DV Odd/Even

TCE 006675714-03



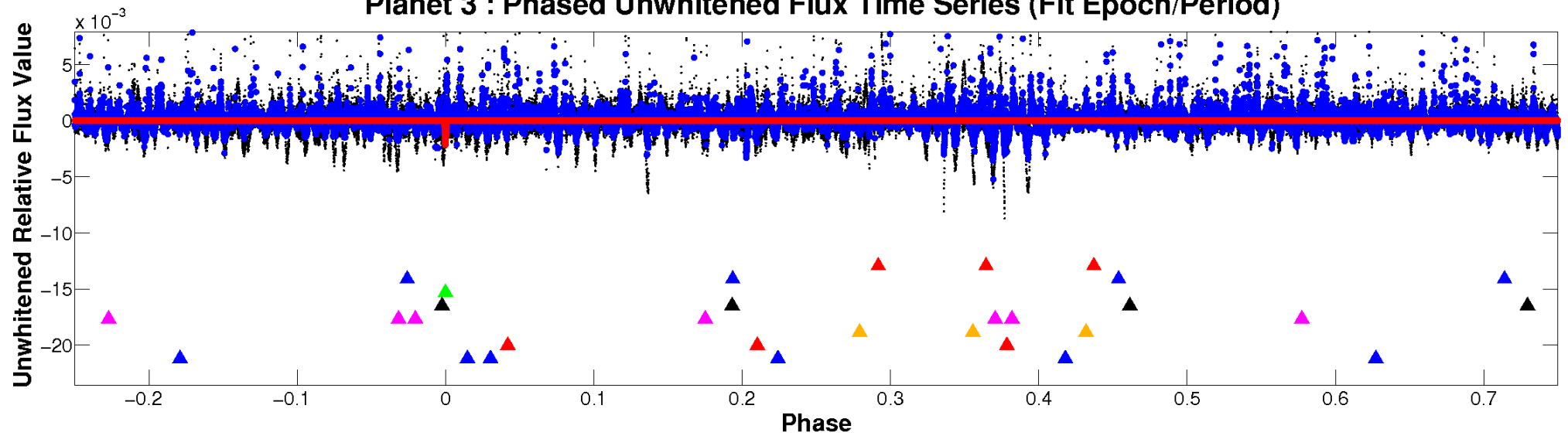
ALT Odd/Even

TCE 006675714-03

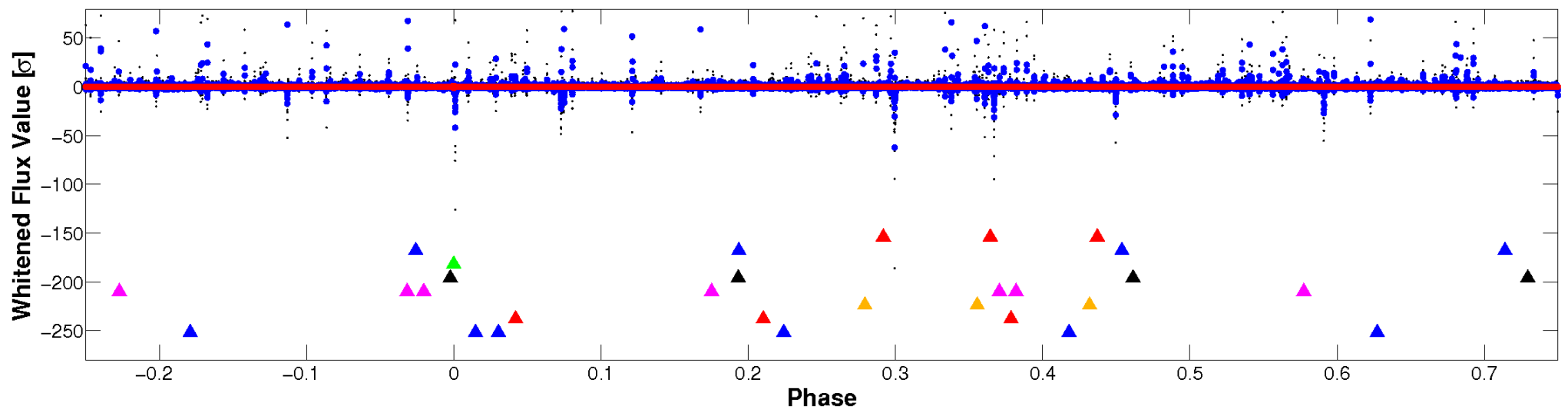


Non-Whitened Vs. Whitened Light Curve

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

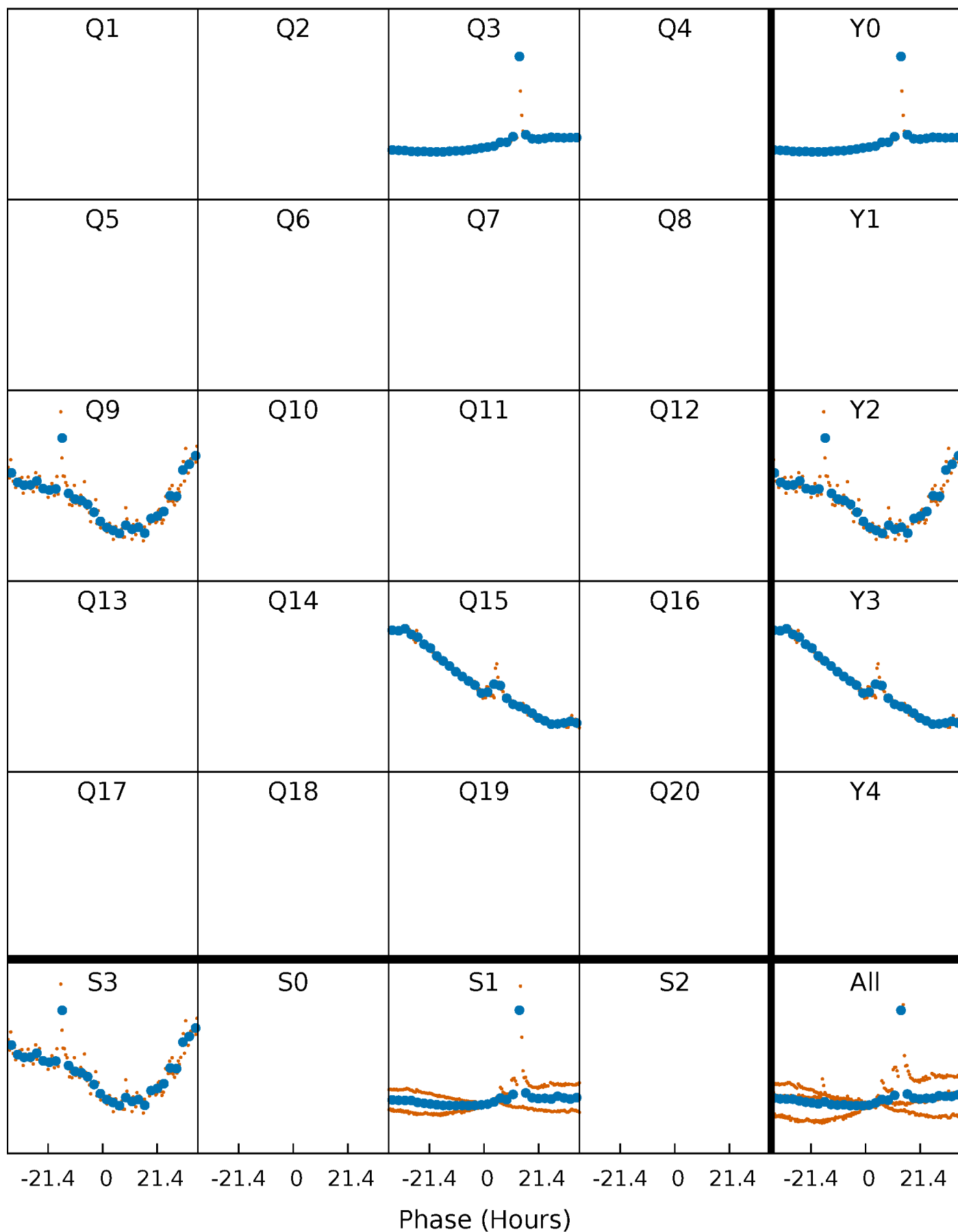


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



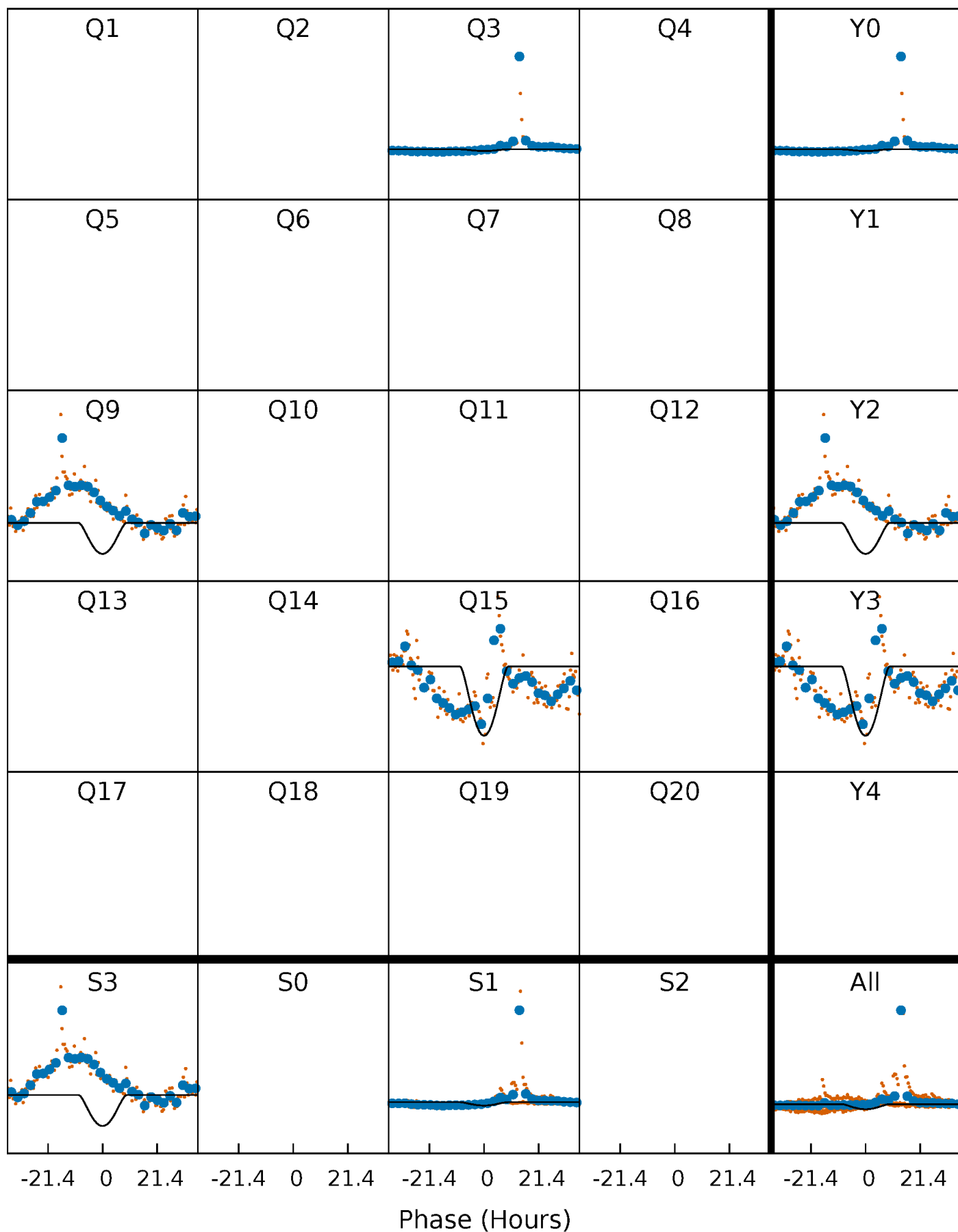
PDC Quarter-Phased Transit Curves

TCE 006675714-03 P=544.831859 Days $T_0=286.498596$ (BKJD)



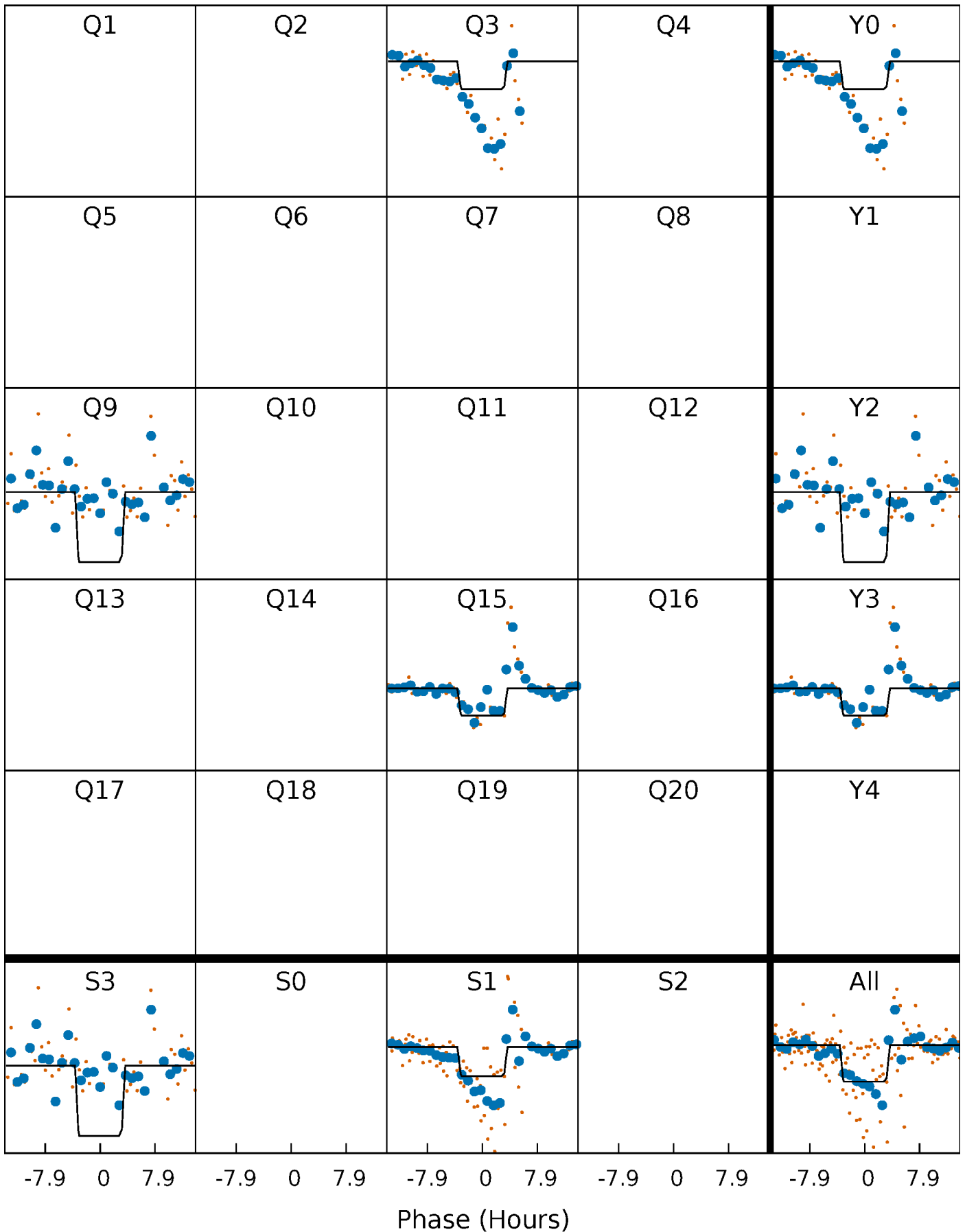
DV Quarter-Phased Transit Curves

TCE 006675714-03 $P=544.831859$ Days $T_0=286.498596$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

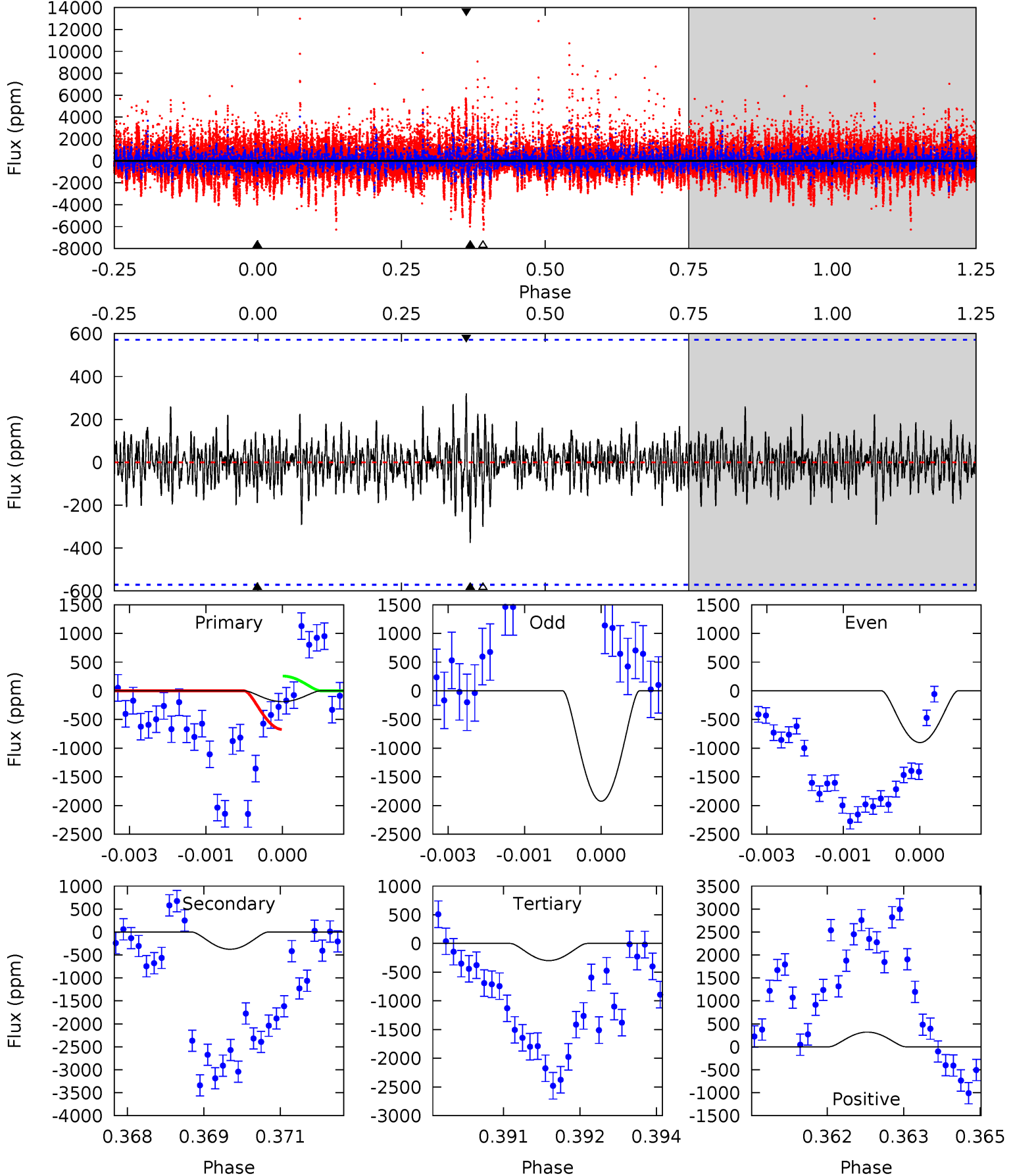
TCE 006675714-03 P=544.792765 Days $T_0=286.611583$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-03, P = 544.831859 Days, E = 286.498596 Days

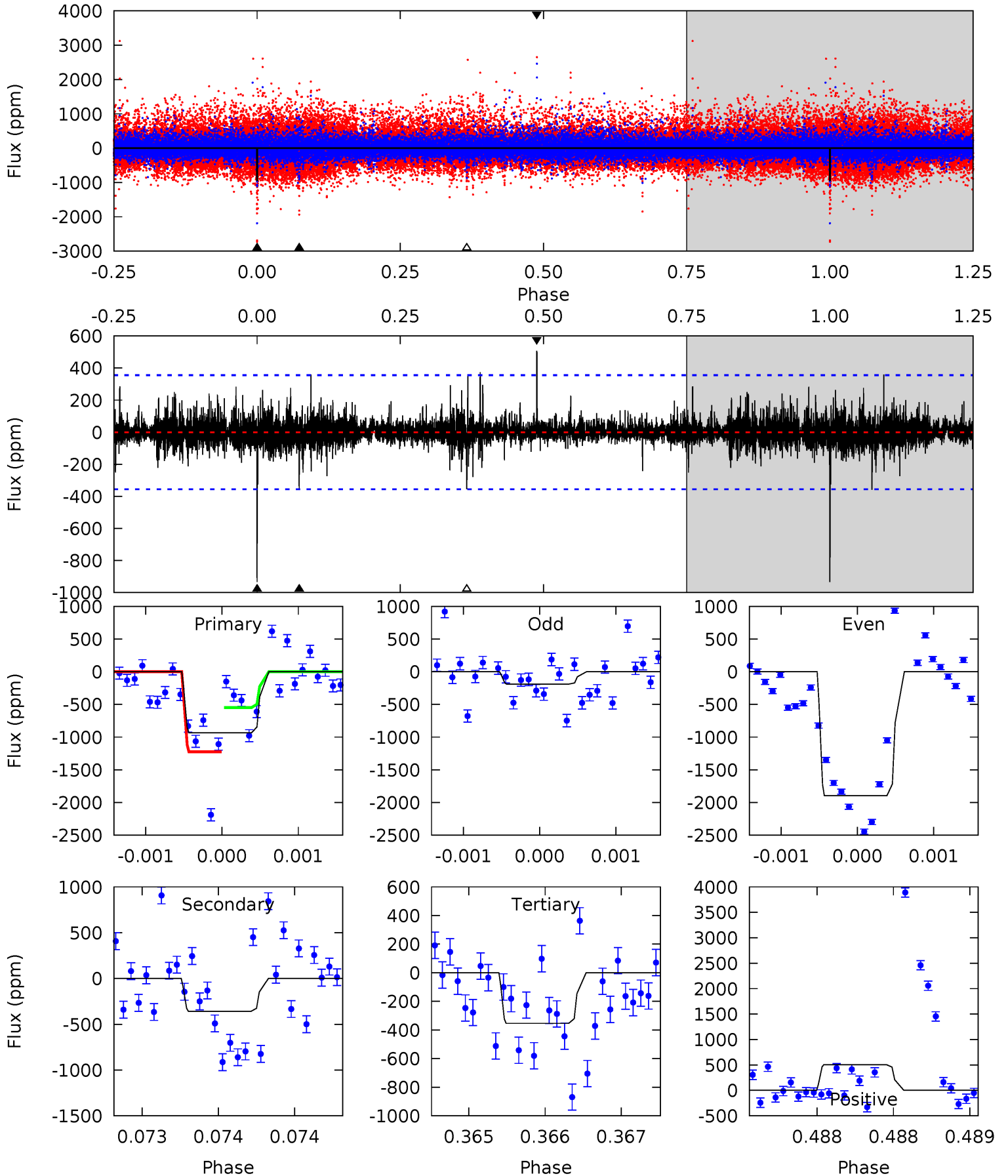
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.79	3.54	2.82	3.02	5.39	3.19	0.71	-1.03	-1.23	0.73	0.52	3.14	-0.18	0.46	1.97



Alt Model-Shift Uniqueness Test

006675714-03, P = 544.792765 Days, E = 286.611583 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.6	5.61	5.53	7.92	5.56	3.47	0.88	9.06	6.67	0.08	-2.31	13.0	1.39	0.35	5.27



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-376 ± 106	$145.72^{+157.89}_{-107.83}$	197^{+7}_{-8}	1424^{+365}_{-160}	13^{+178}_{-10}
Alt.	-359 ± 64	$138.22^{+151.06}_{-100.49}$	196^{+8}_{-8}	1427^{+365}_{-158}	13^{+161}_{-11}

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

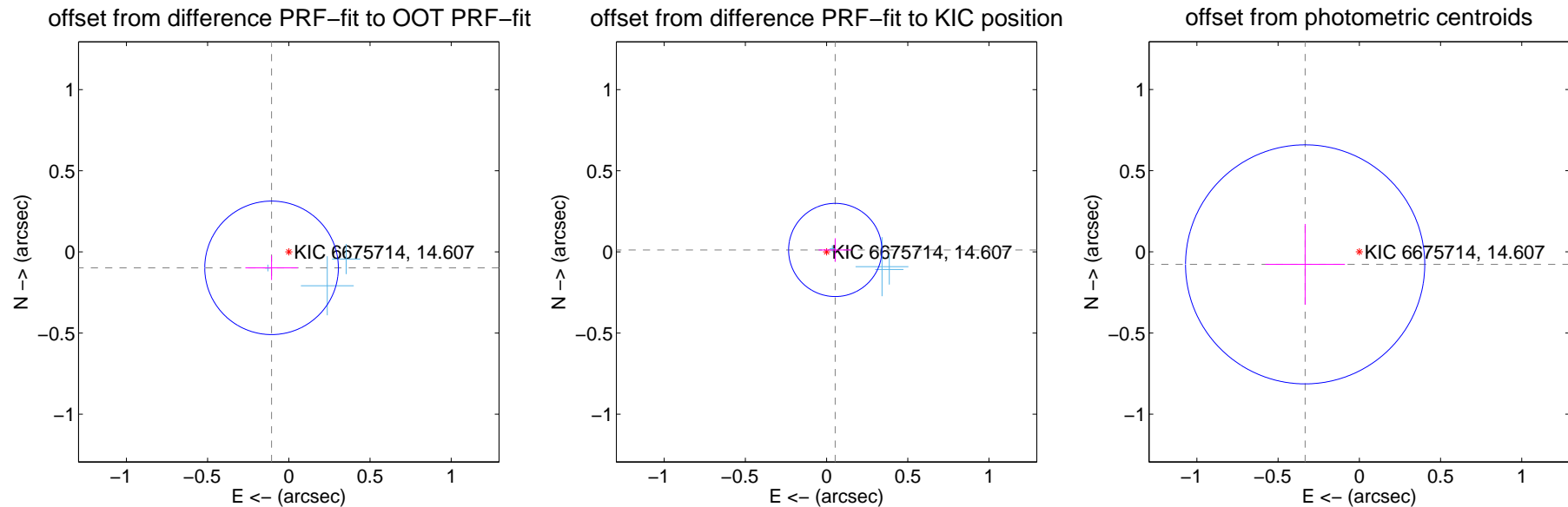
DV Centroid Data

Supplemental centroid analysis for 006675714-03. Kepler magnitude: 14.61. Transit SNR 8.38

There are 3 quarters with good PRF difference image offsets

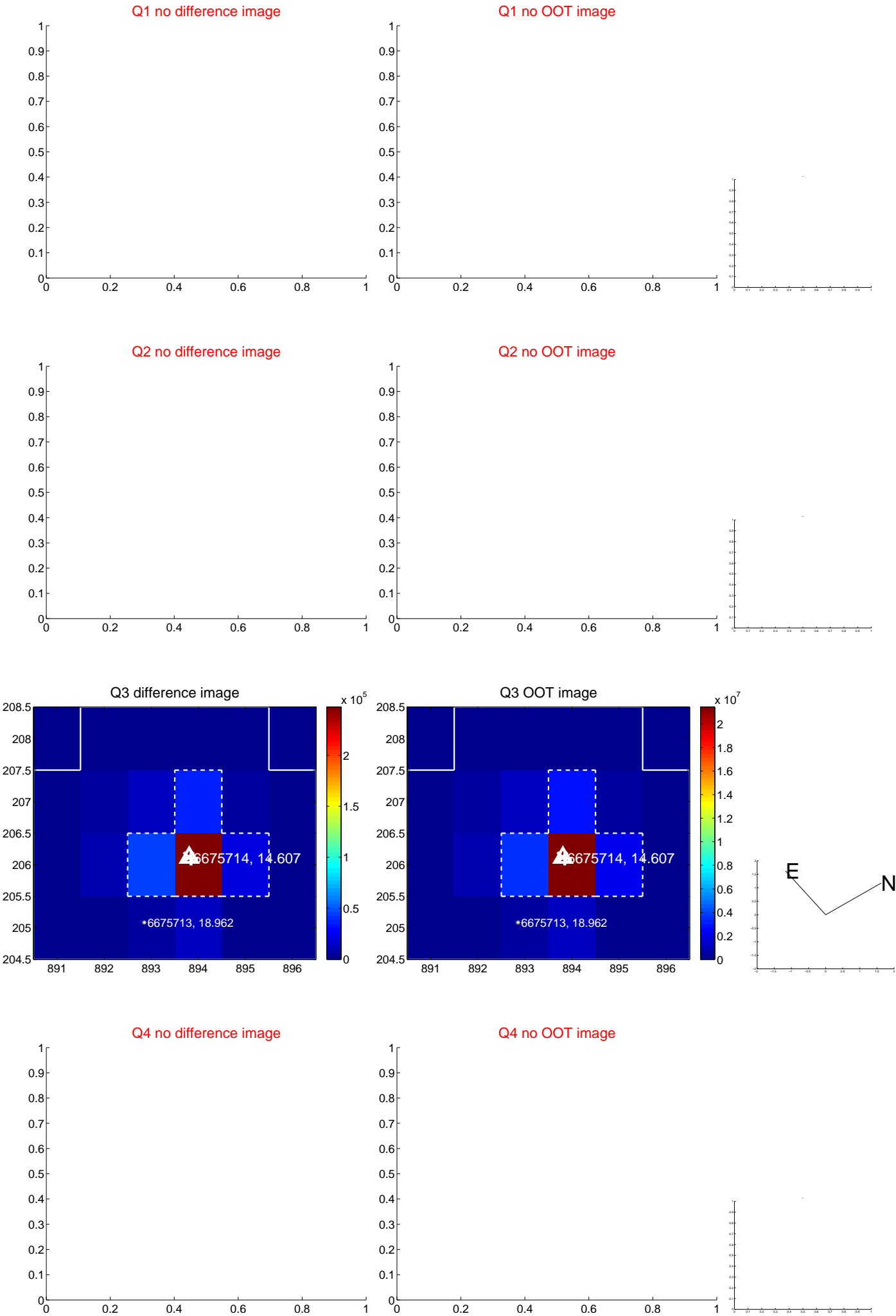
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.145 ± 0.137	1.05	0.106 ± 0.161	-0.098 ± 0.075
PRF-fit source offset from KIC position	0.055 ± 0.096	0.57	-0.053 ± 0.102	0.012 ± 0.072
photometric centroid source offset	0.34 ± 0.25	1.39	0.33 ± 0.25	-0.08 ± 0.25



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.

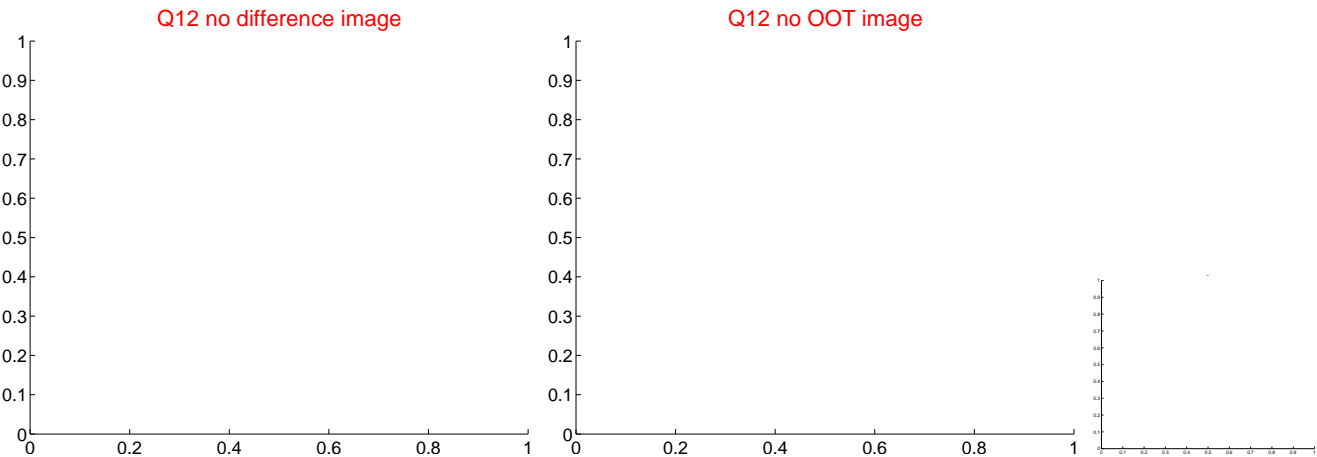
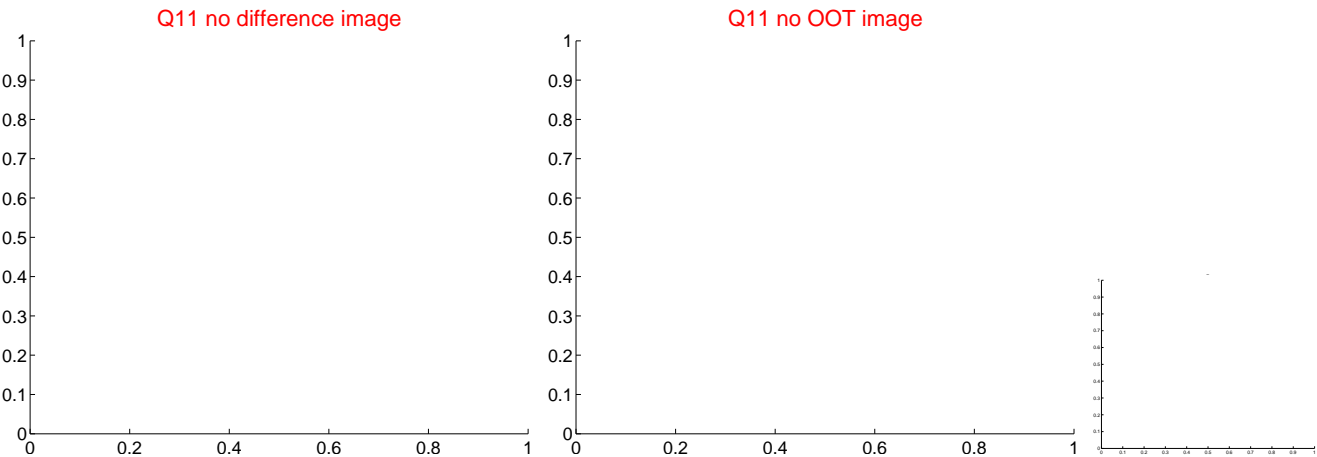
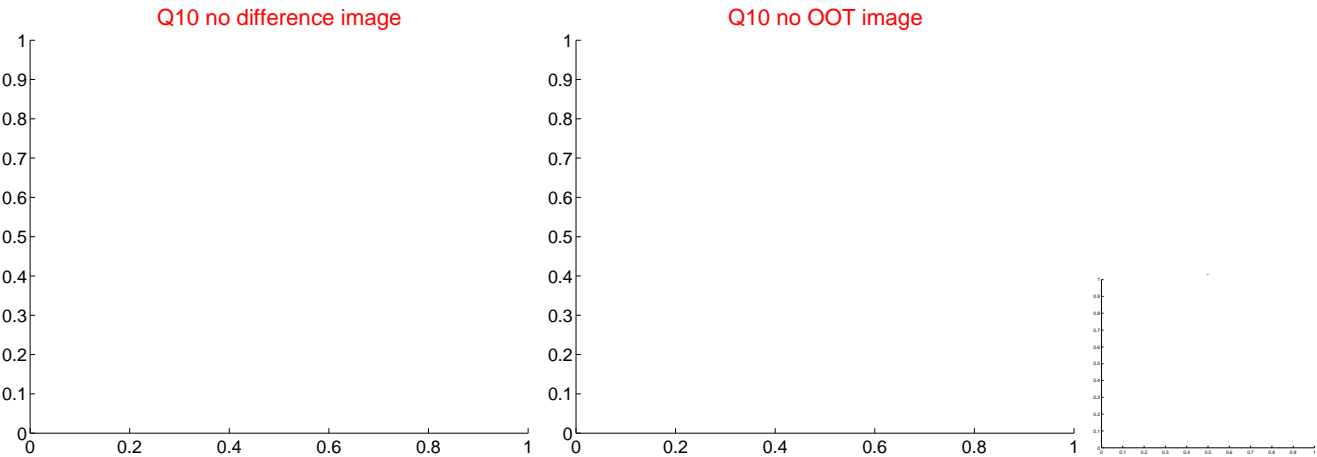
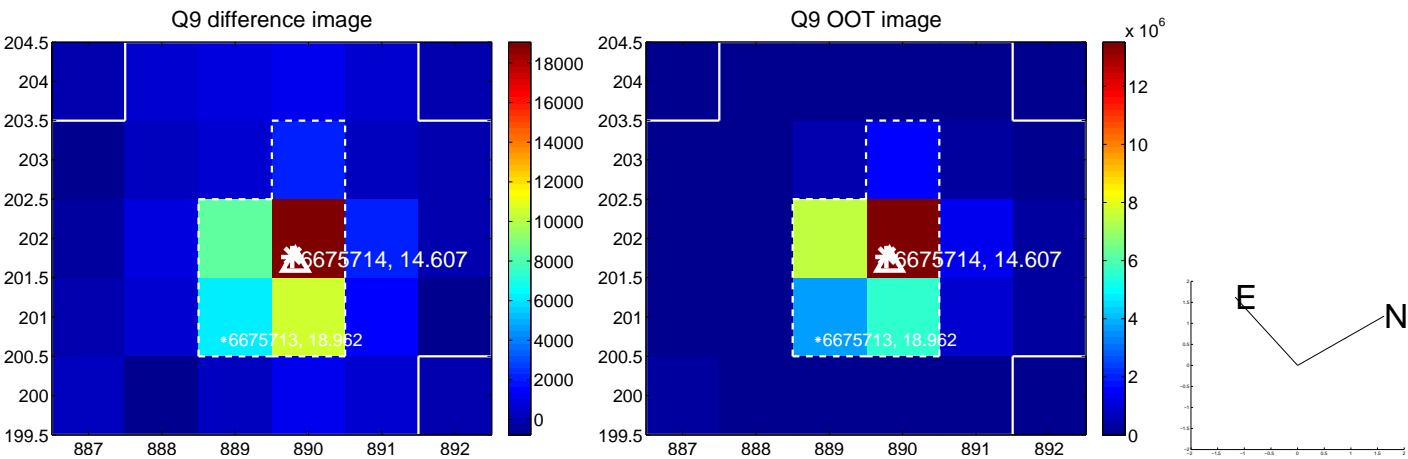
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



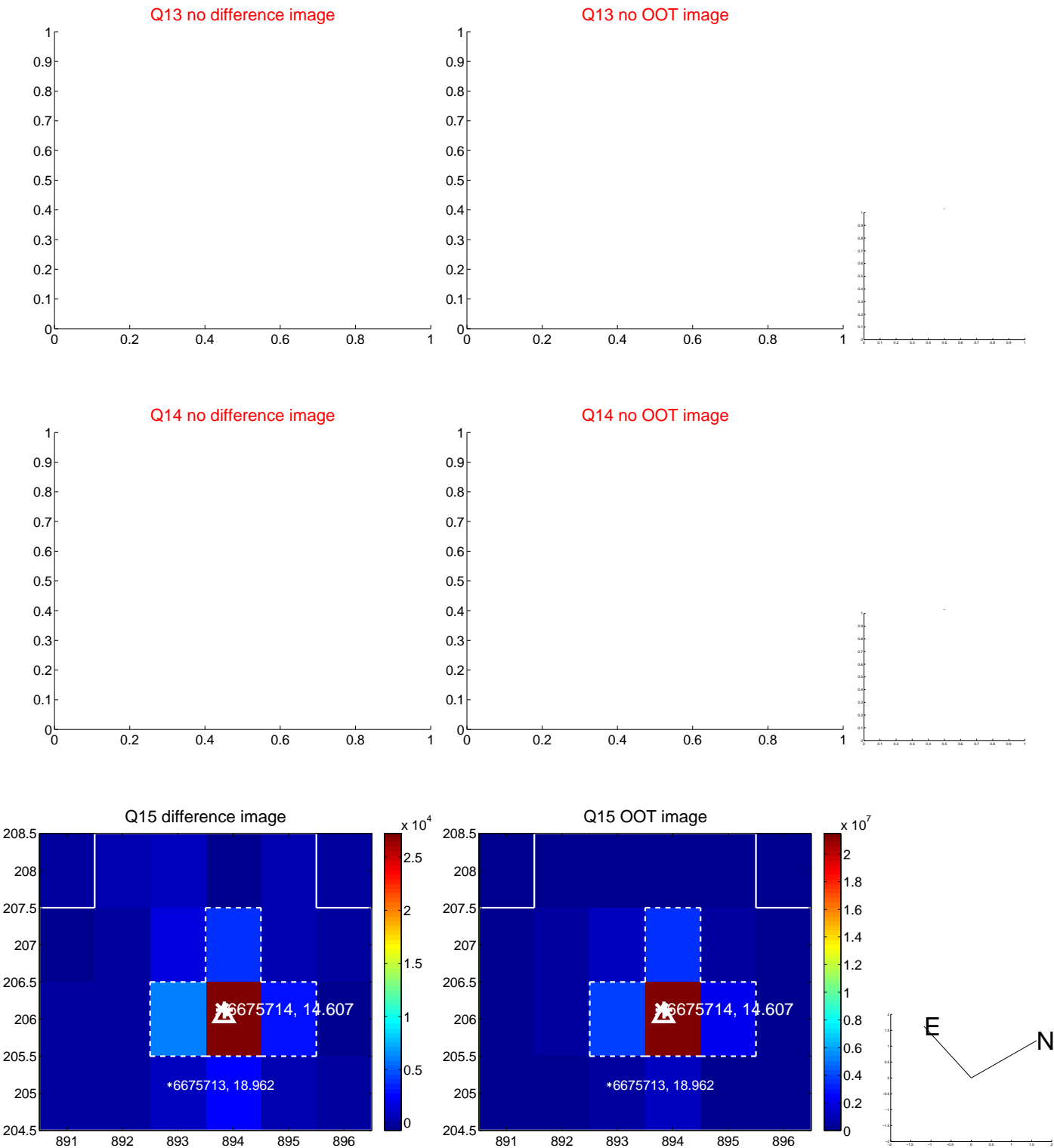
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



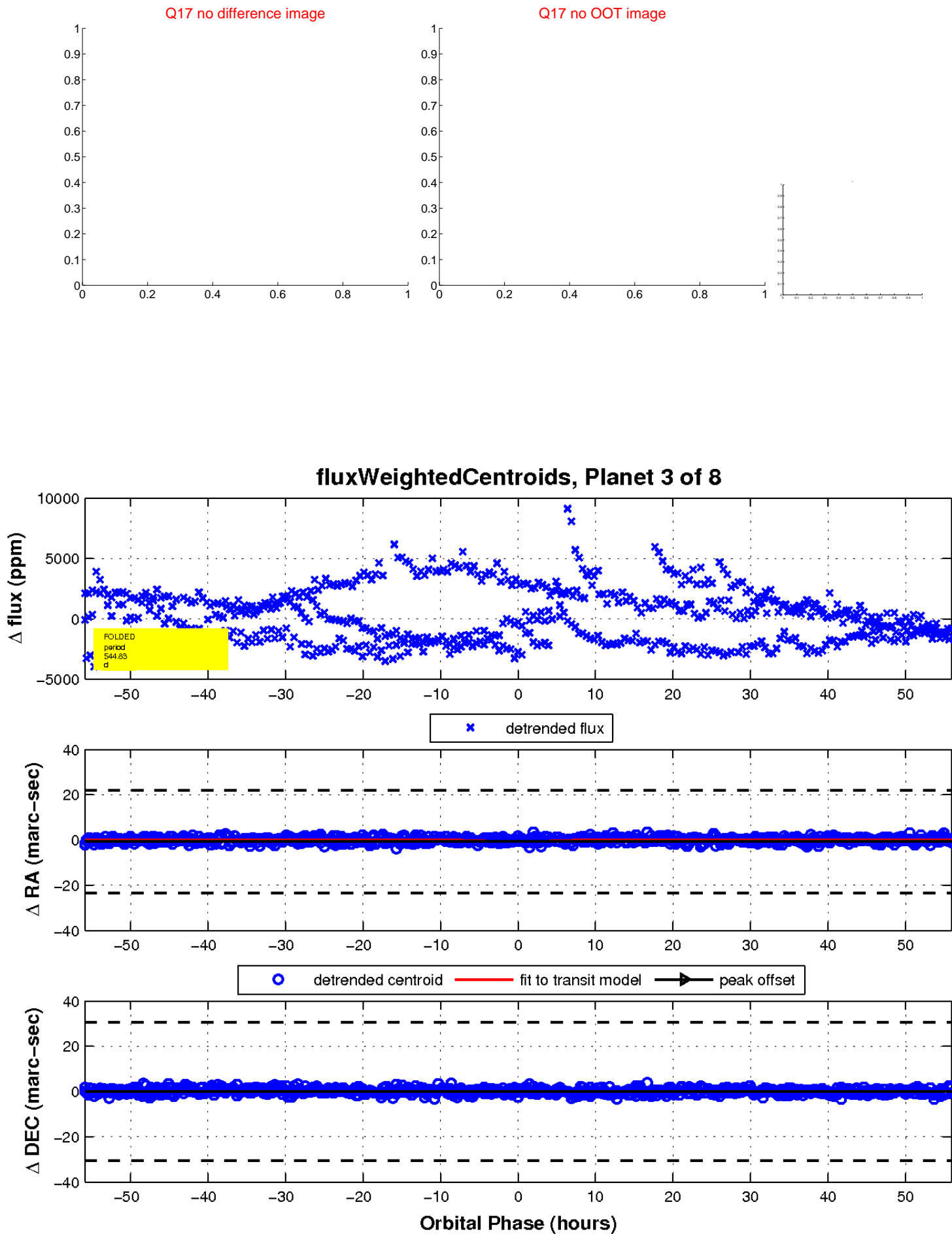
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

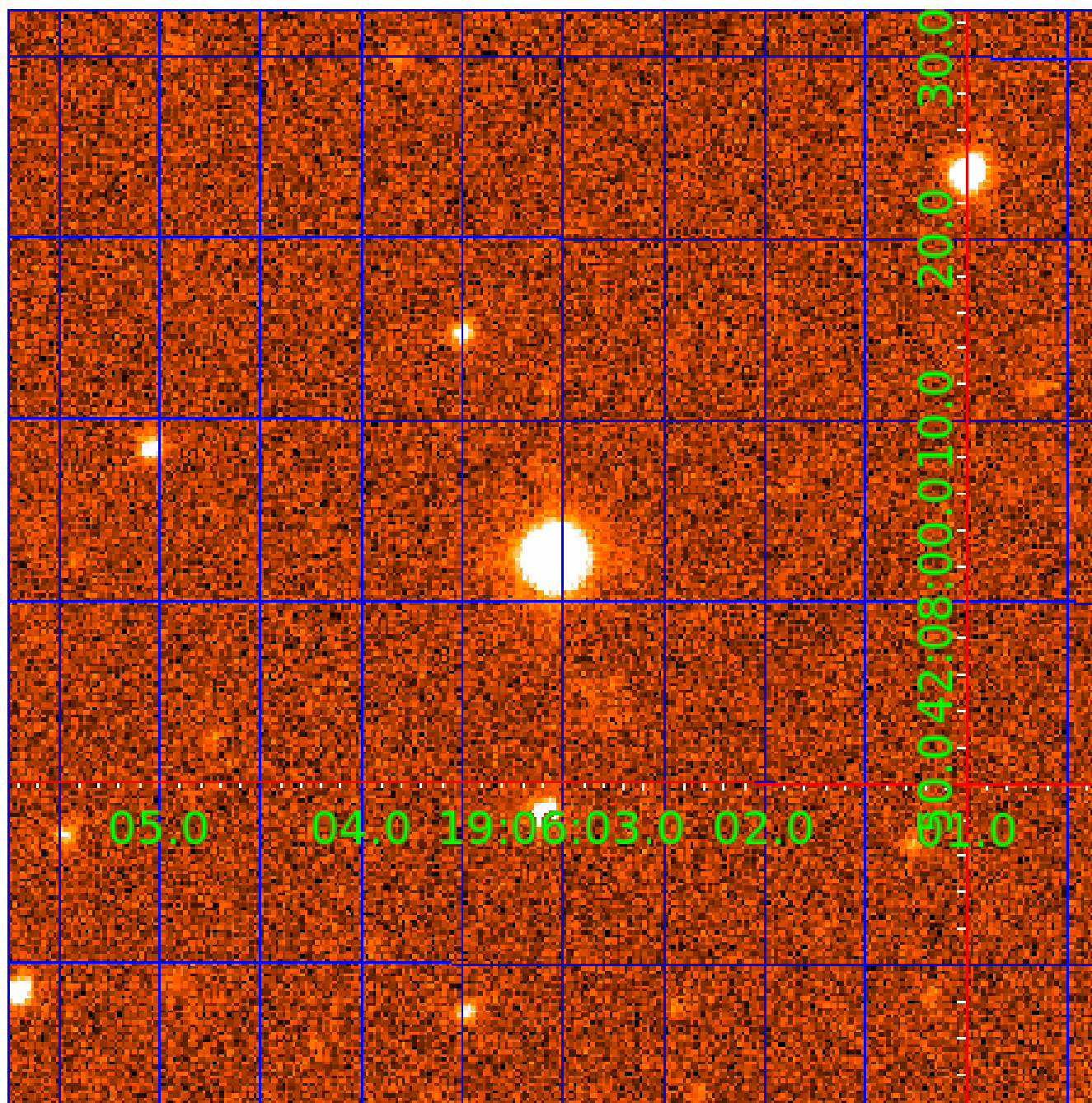


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
006675714-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

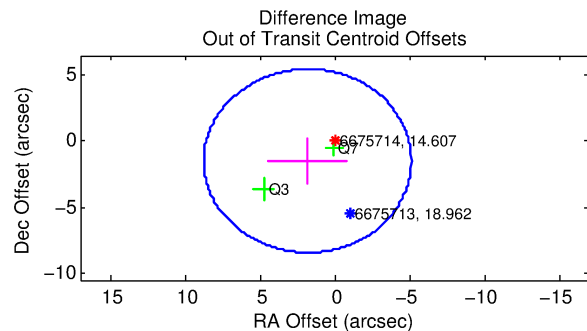
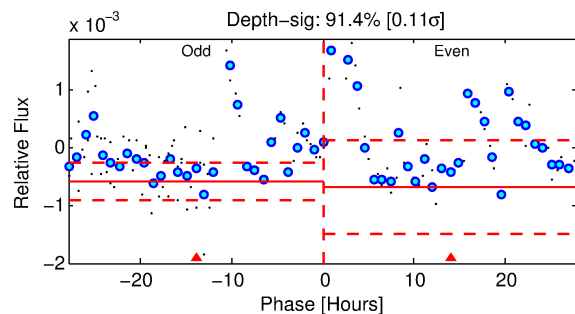
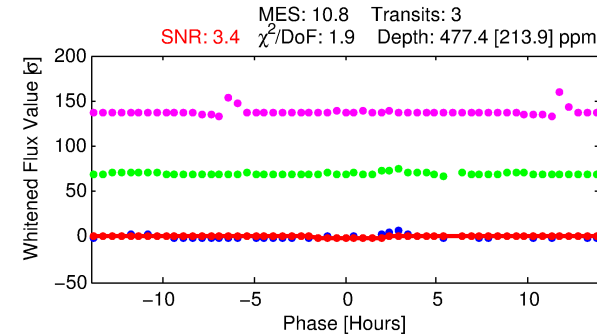
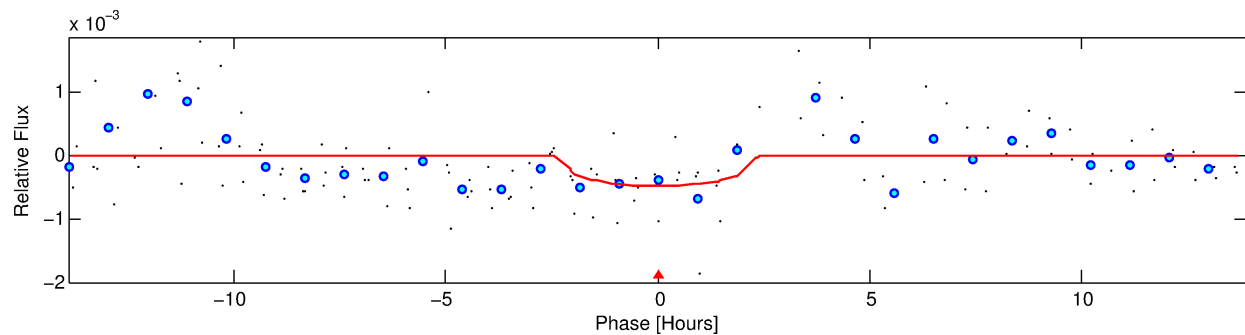
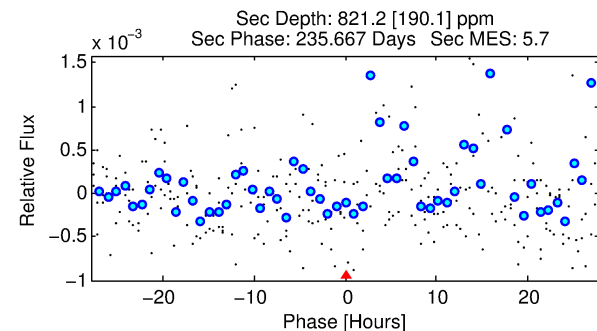
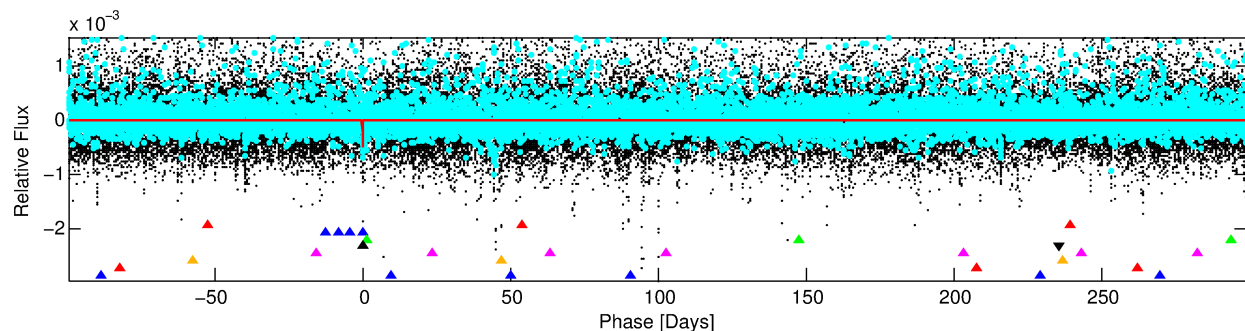
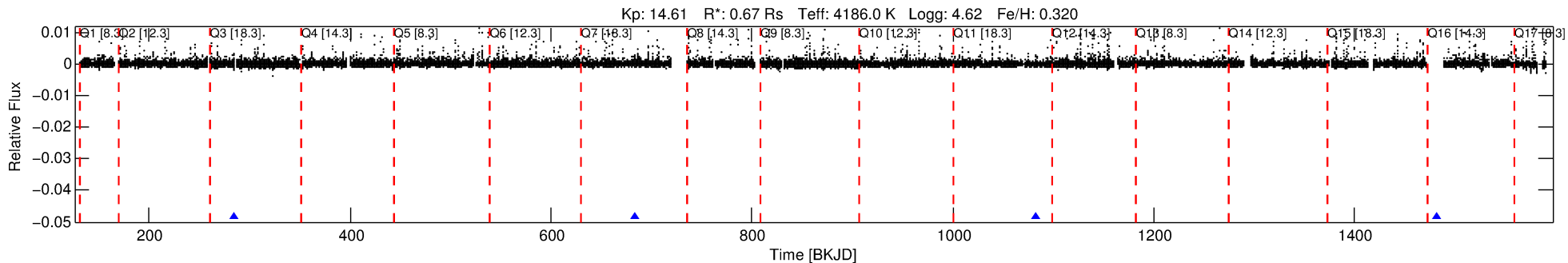
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-04

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 4 of 8 Period: 398.742 d



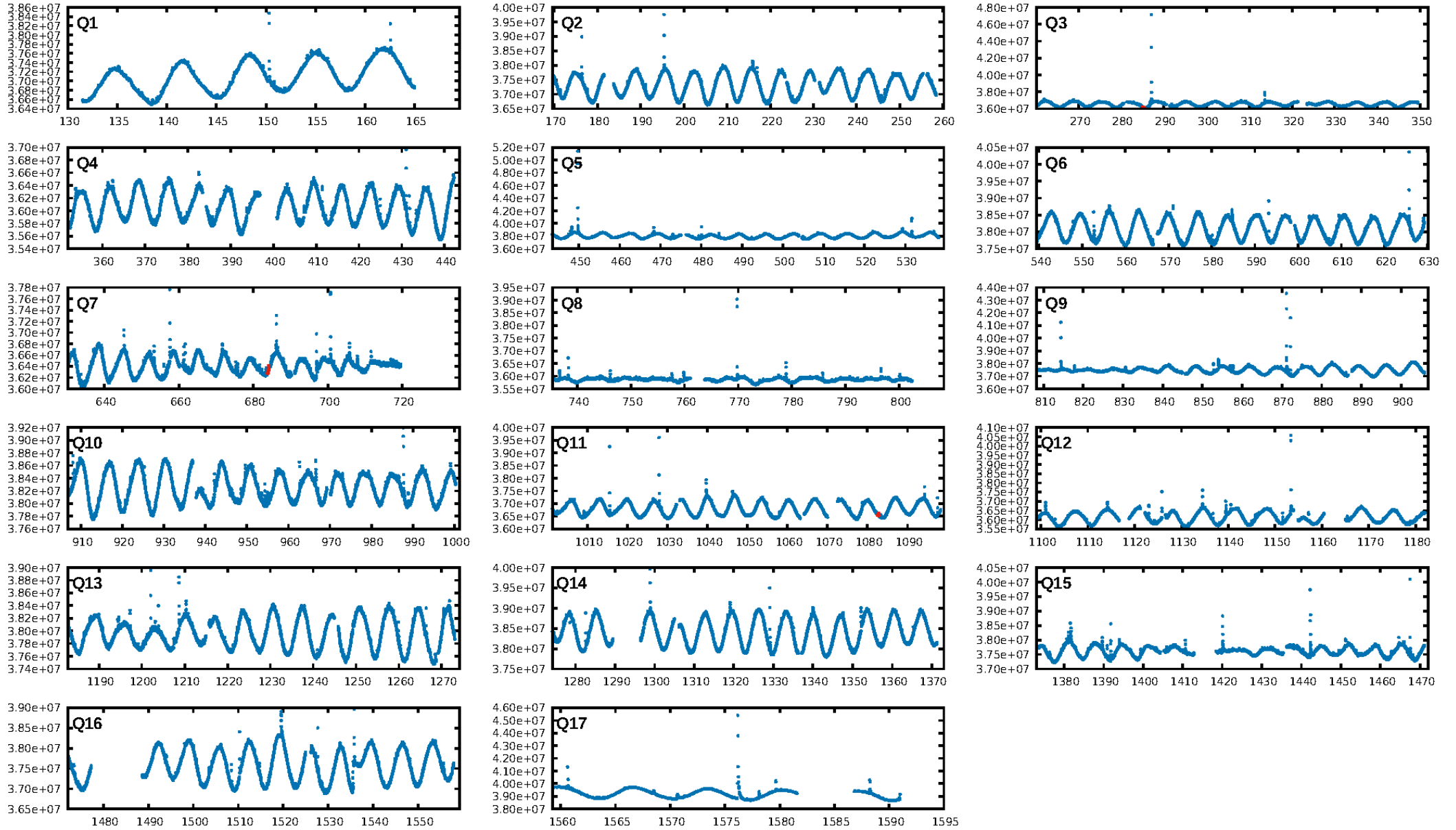
DV Fit Results:

Period = 398.74207 [0.02404] d
Epoch = 285.2337 [0.0381] BKJD
Rp/R* = 0.0227 [0.0510]
a/R* = 413.79 [2994.13]
b = 0.81 [3.24]
Seff = 0.14 [0.03]
Teq = 157 [7] K
Rp = 1.66 [3.74] Re
a = 0.9334 [0.0630] AU
Ag = 142446.37 [641981.22] [0.22σ]
Teffp = 4707 [5305] K [0.86σ]

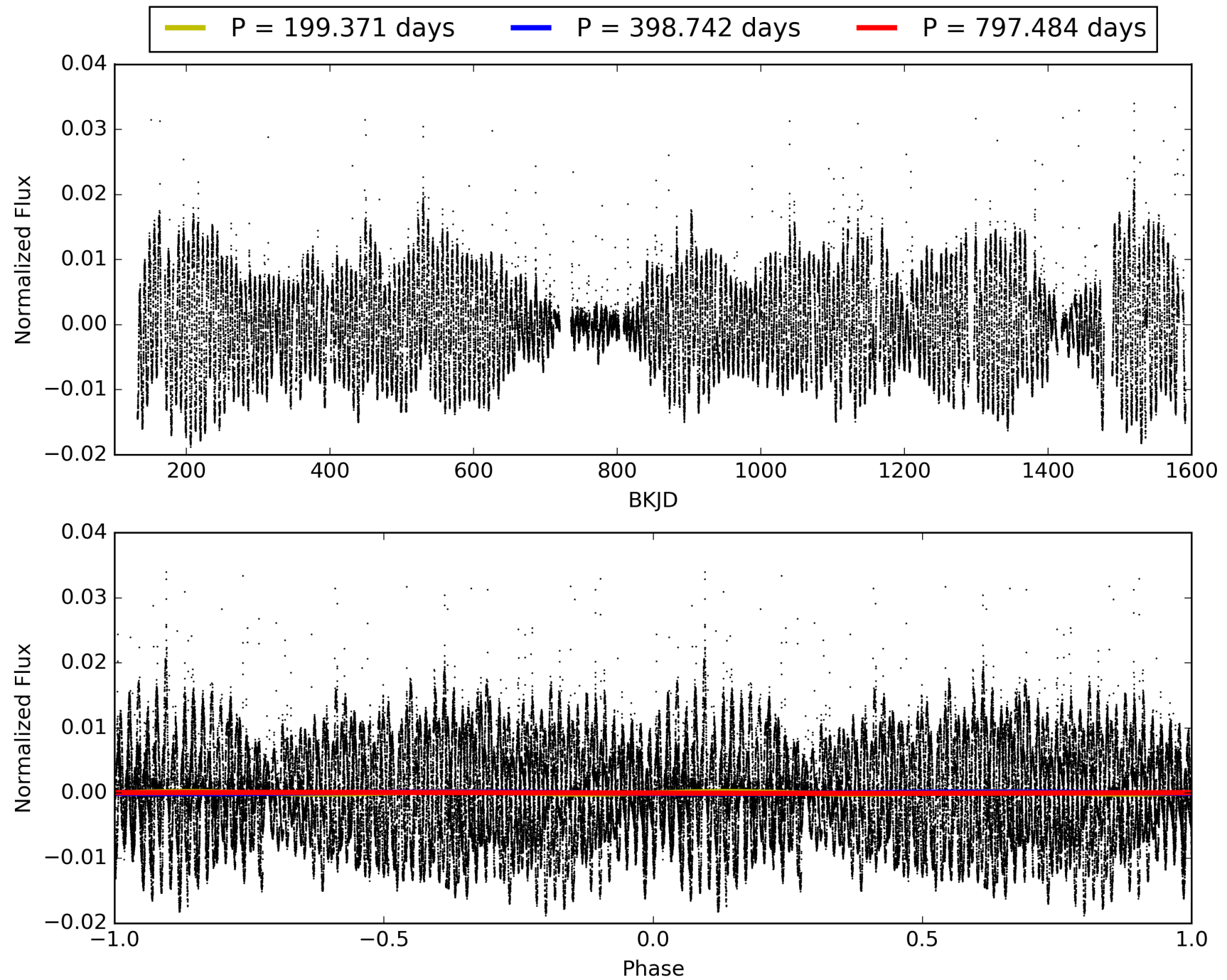
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [815.44σ]
LongPeriod-sig: 100.0% [11.18σ]
ModelChiSquare2-sig: 65.7%
ModelChiSquareGof-sig: 91.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.181
Centroid-sig: 2.2%
Centroid-so: 2.383 arcsec [1.49σ]
OotOffset-rm: 2.338 arcsec [1.01σ]
KicOffset-rm: 2.175 arcsec [0.95σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [2/2]

TCE 006675714-04, PDC Light Curves

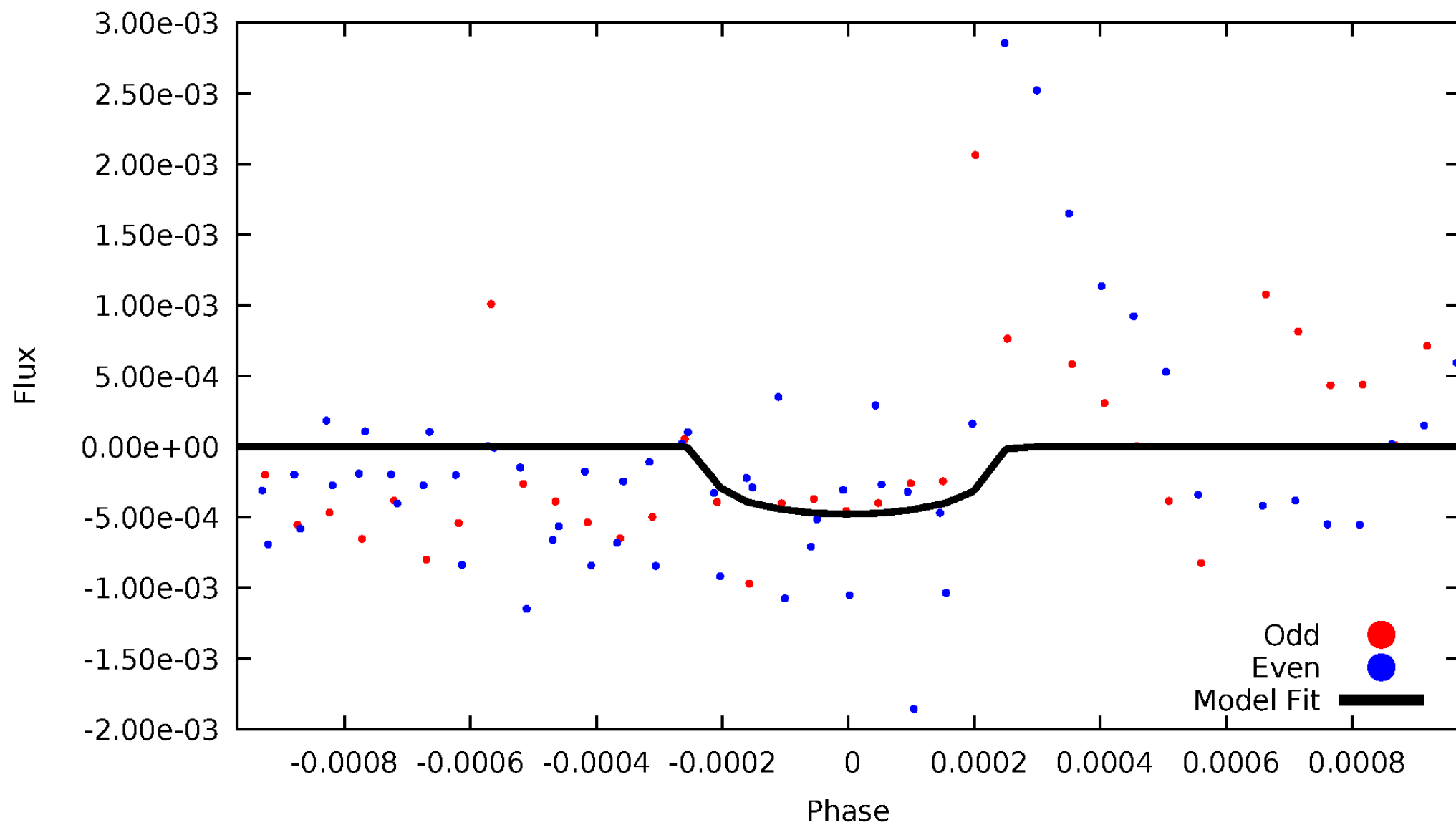


TCE 006675714-04



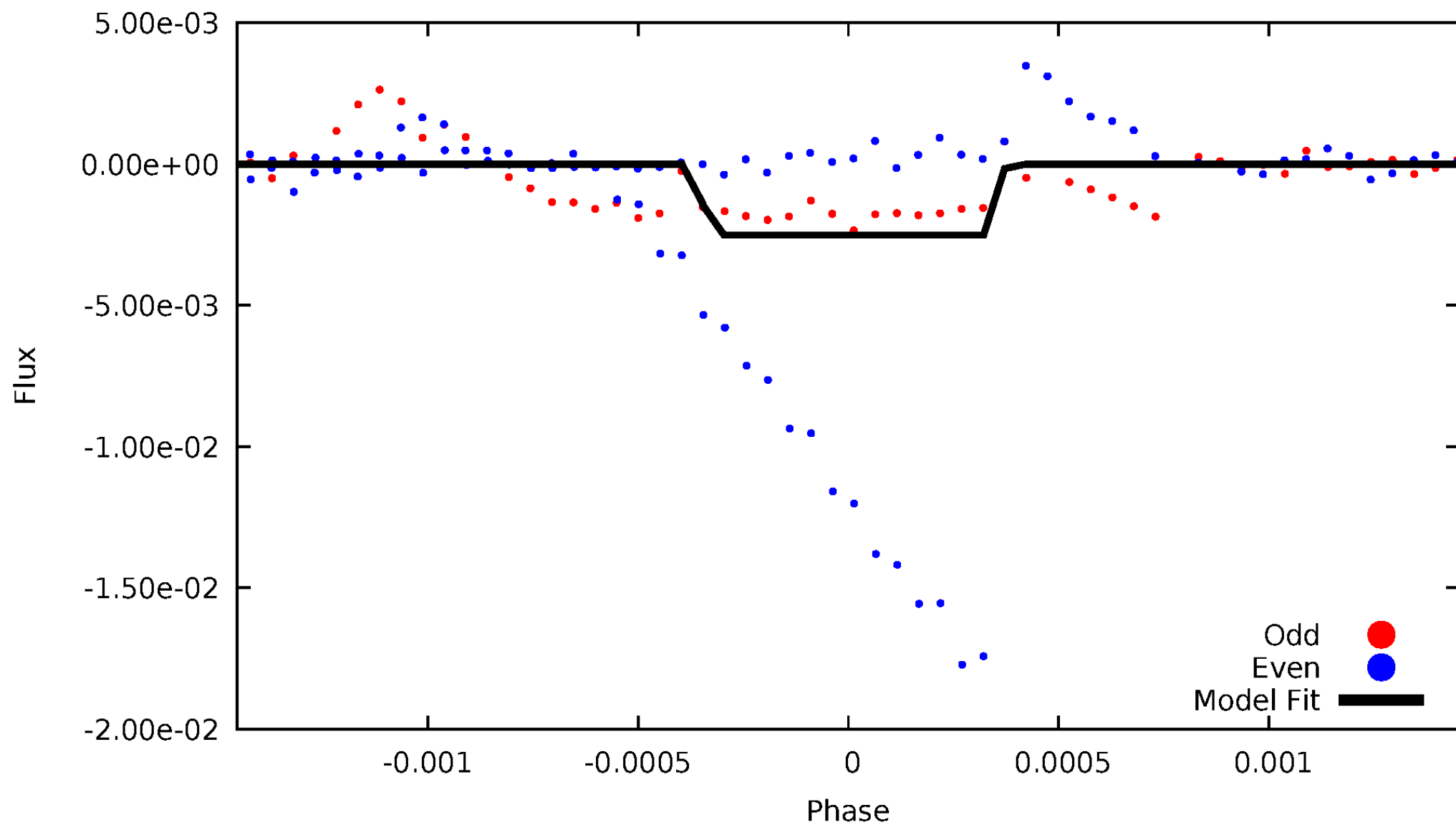
DV Odd/Even

TCE 006675714-04



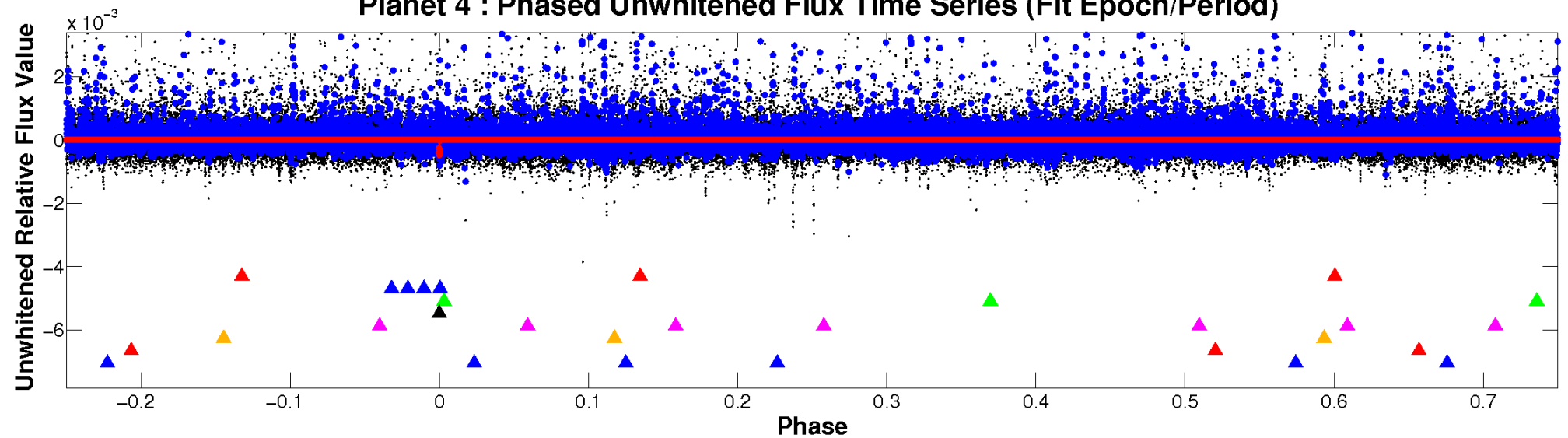
ALT Odd/Even

TCE 006675714-04

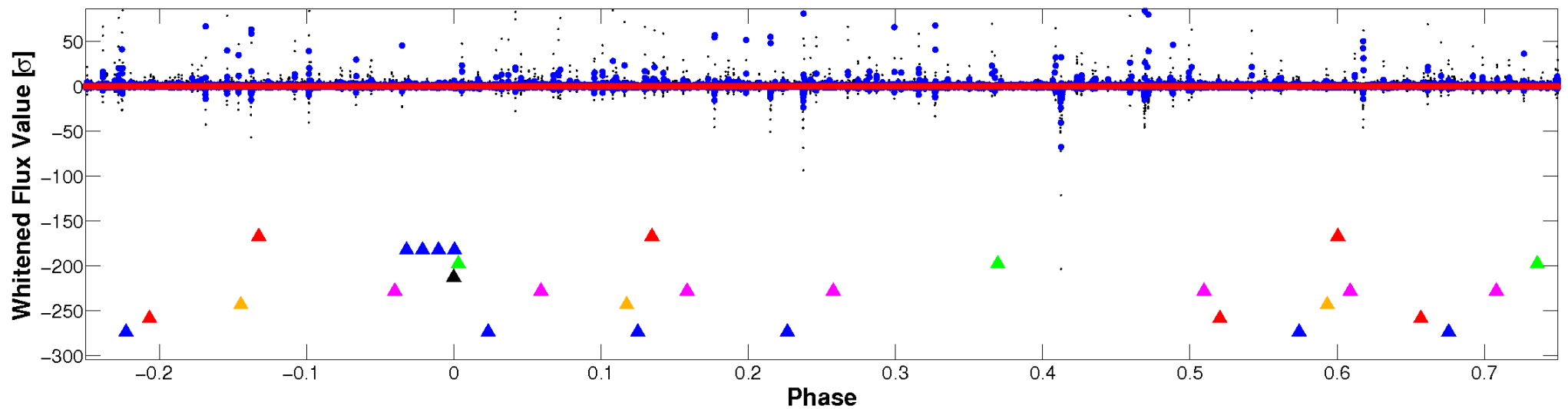


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

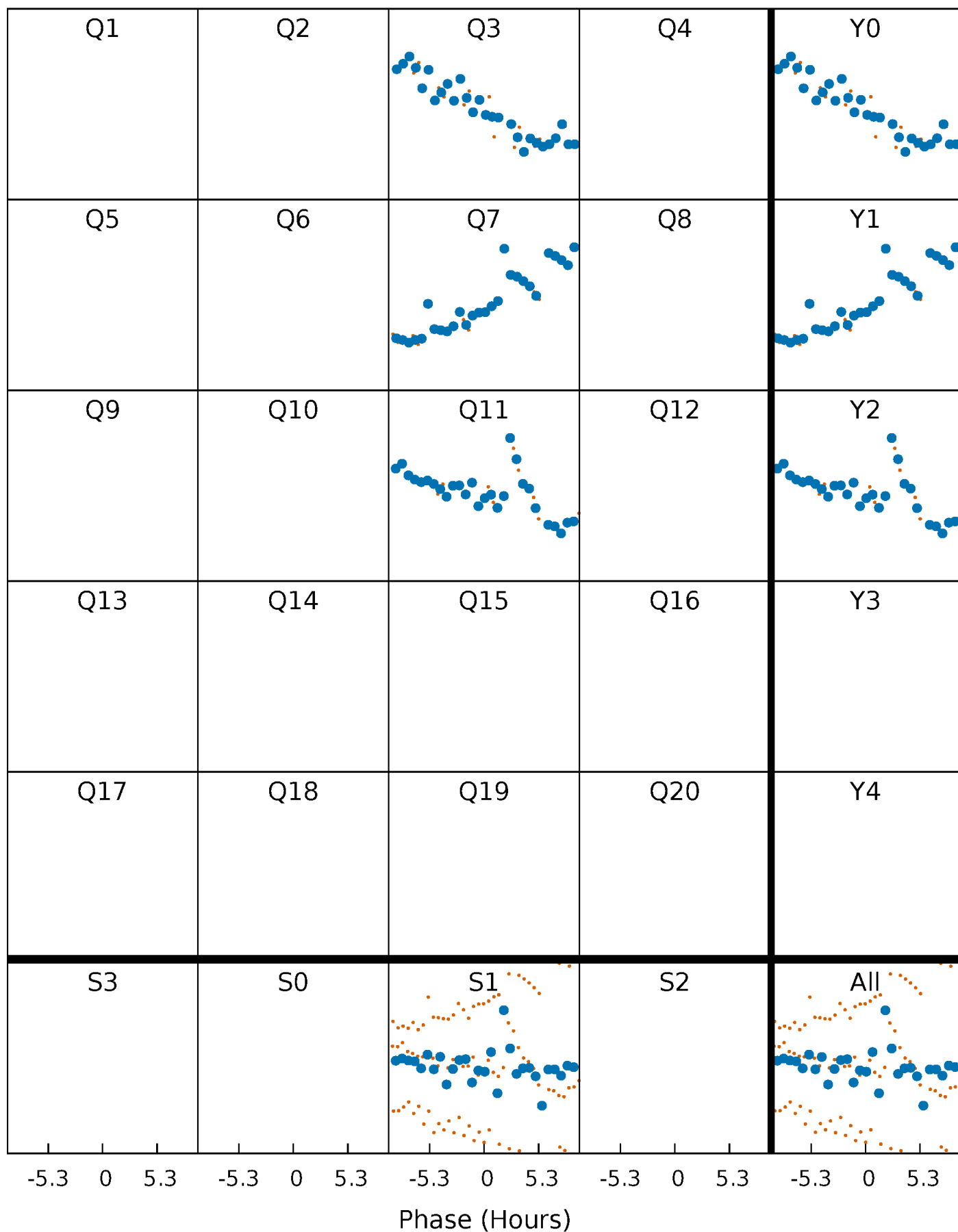


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



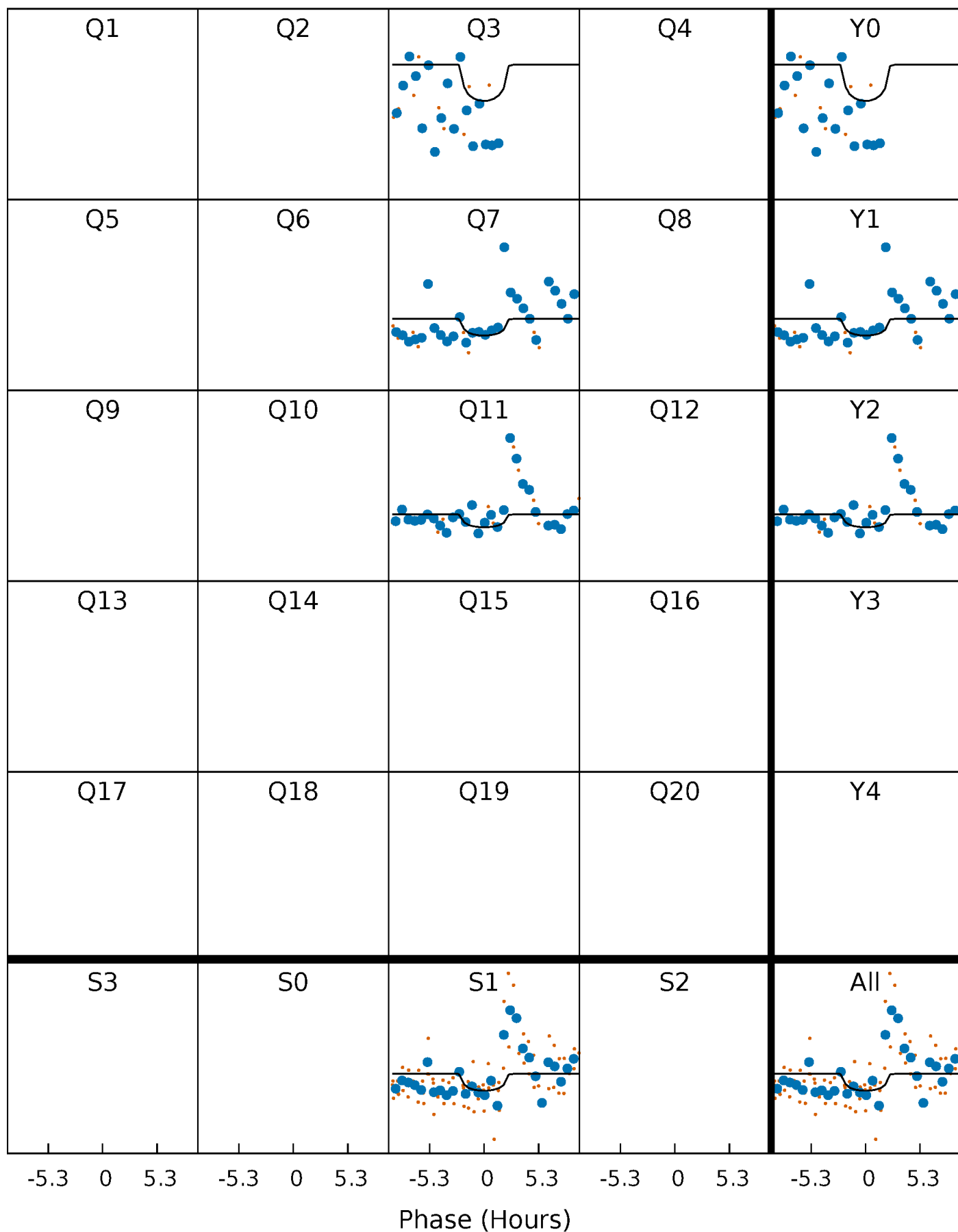
PDC Quarter-Phased Transit Curves

TCE 006675714-04 $P=398.742069$ Days $T_0=285.233668$ (BKJD)



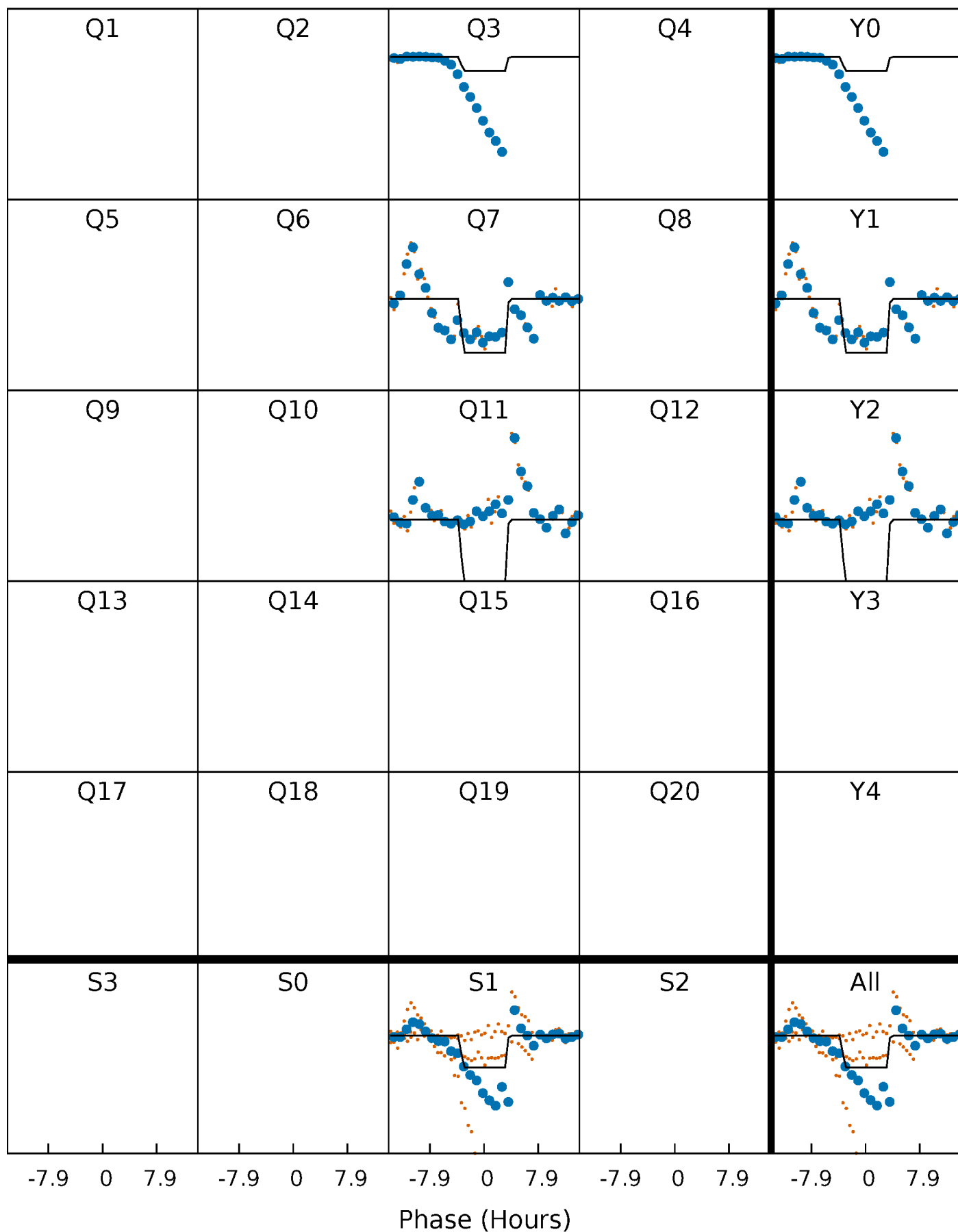
DV Quarter-Phased Transit Curves

TCE 006675714-04 P=398.742069 Days $T_0=285.233668$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

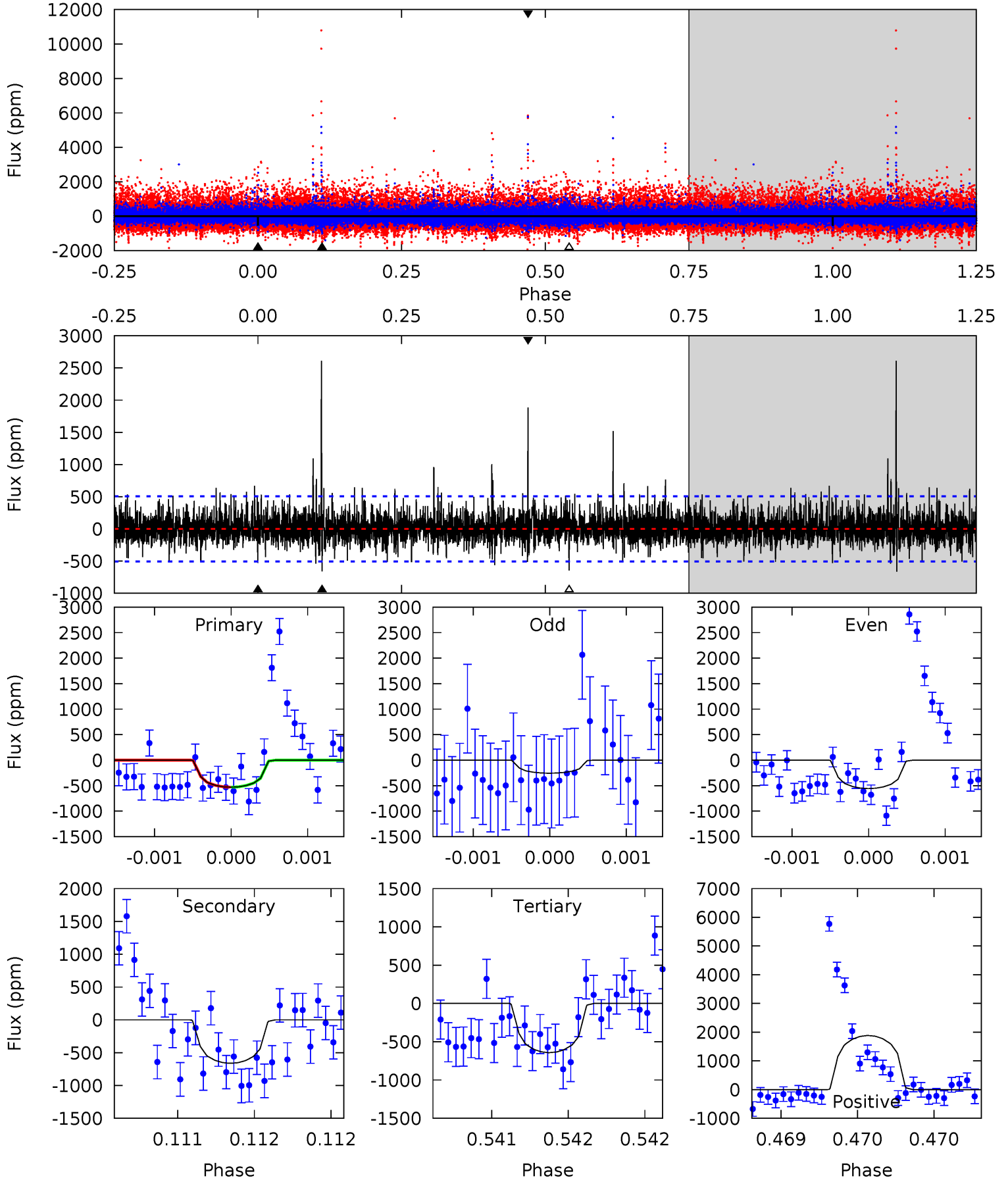
TCE 006675714-04 $P=398.740490$ Days $T_0=285.167419$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-04, P = 398.742069 Days, E = 285.233668 Days

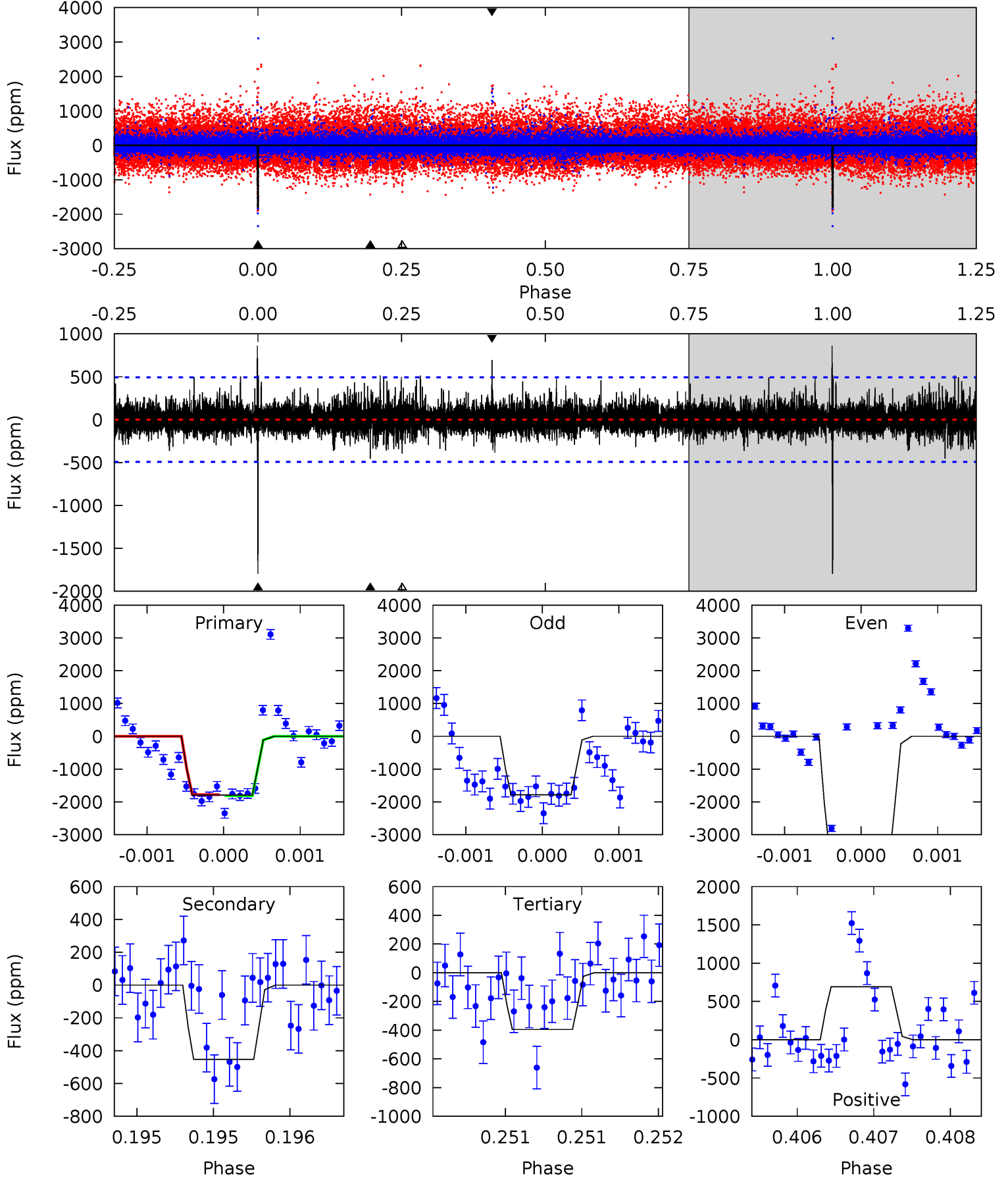
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.83	7.27	7.06	20.7	5.57	3.47	1.86	-1.23	-14.9	0.21	-13.4	0.67	1.81	0.80	0.00



Alt Model-Shift Uniqueness Test

006675714-04, P = 398.740490 Days, E = 285.167419 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.1	5.07	4.43	7.75	5.51	3.38	1.07	15.7	12.4	0.64	-2.68	14.2	2.54	0.32	0



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-661 ± 91	$3.25^{+3.18}_{-2.16}$	218^{+8}_{-9}	3472^{+1674}_{-642}	$30092^{+234287}_{-22630}$
Alt.	-453 ± 89	$4.34^{+3.59}_{-2.60}$	218^{+8}_{-9}	2982^{+1074}_{-424}	11285^{+64554}_{-7810}

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

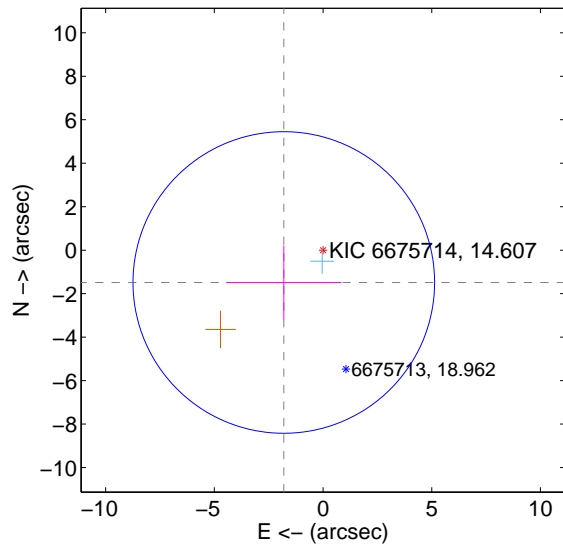
Supplemental centroid analysis for 006675714-04. Kepler magnitude: 14.61. Transit SNR 3.43

There are 1 quarters with good PRF difference image offsets

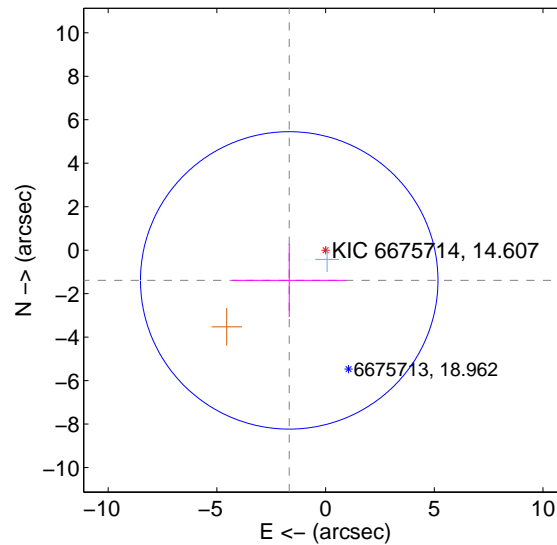
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.338 ± 2.312	1.01	1.805 ± 2.648	-1.487 ± 1.700
PRF-fit source offset from KIC position	2.175 ± 2.281	0.95	1.673 ± 2.616	-1.390 ± 1.681
photometric centroid source offset	2.38 ± 1.60	1.49	0.60 ± 1.71	2.31 ± 1.59

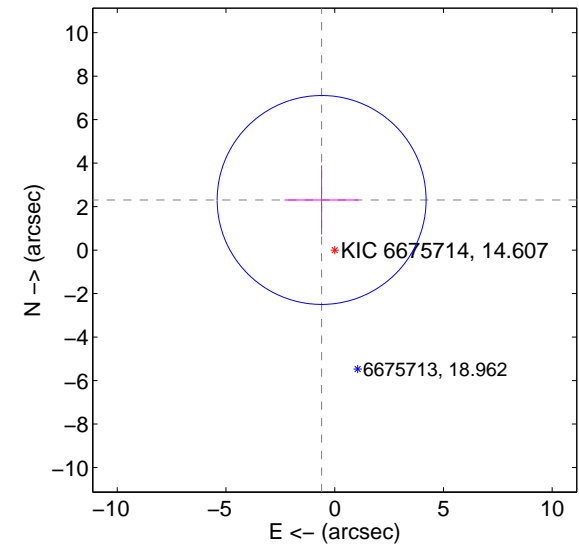
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

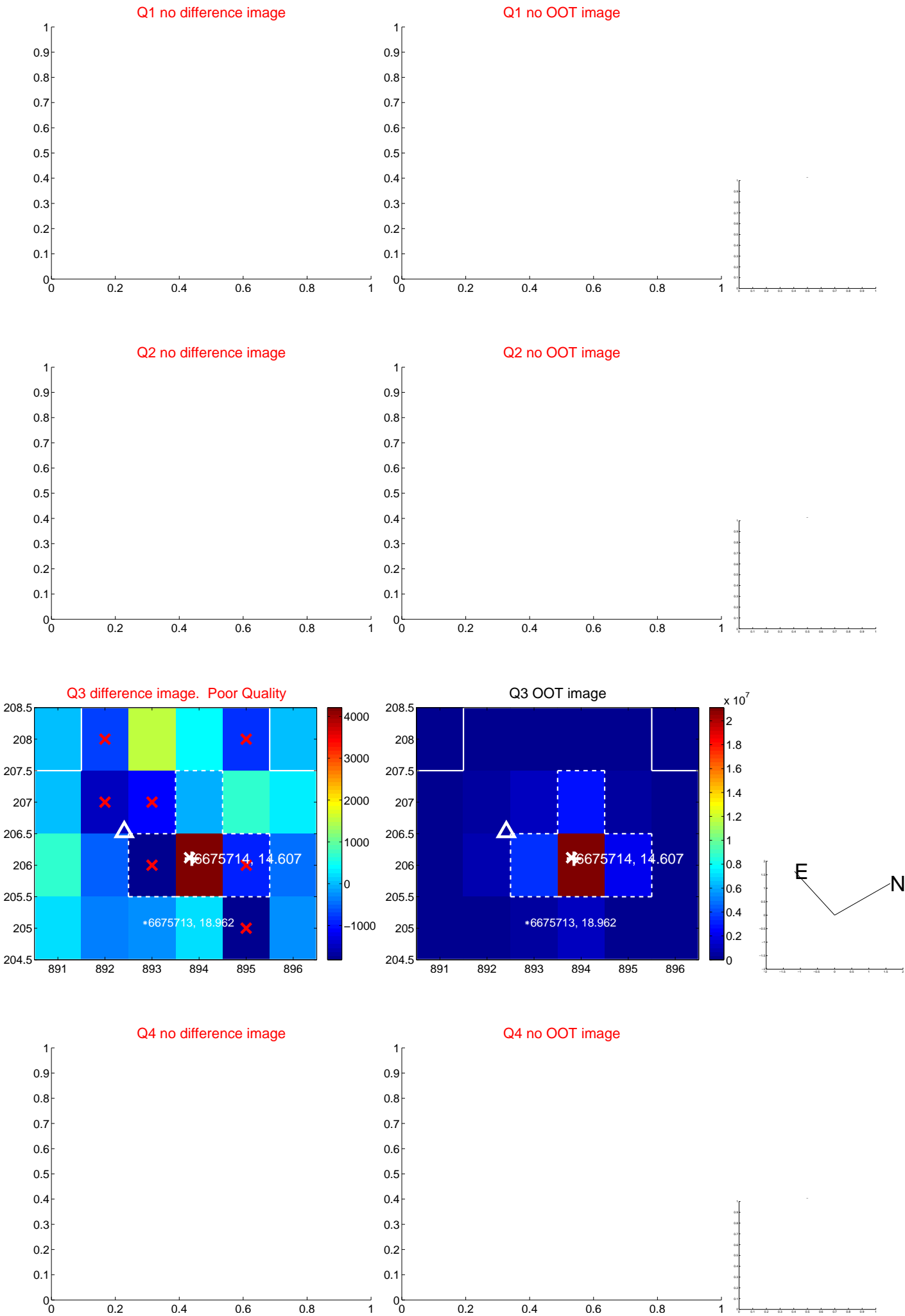


offset from photometric centroids

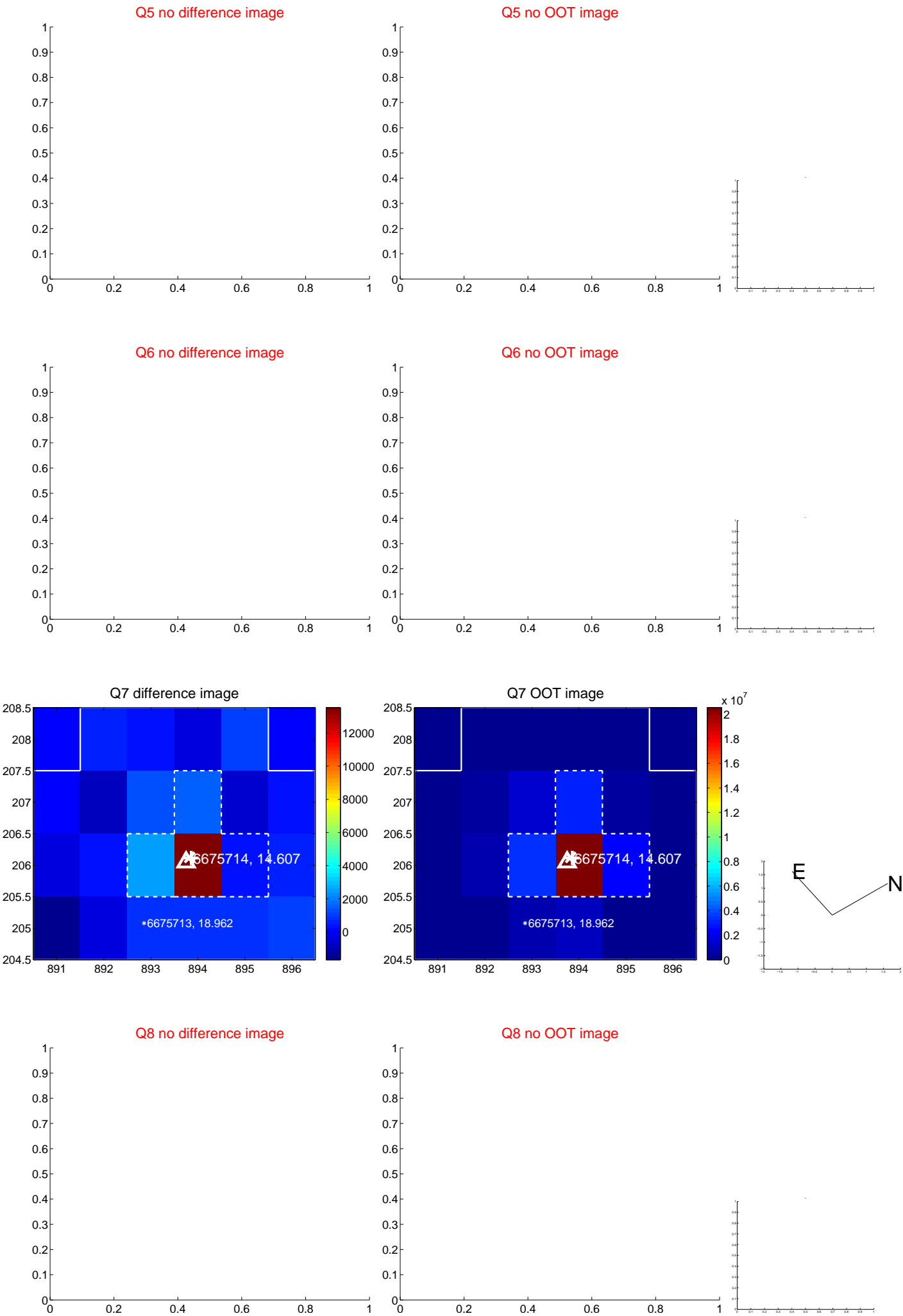


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



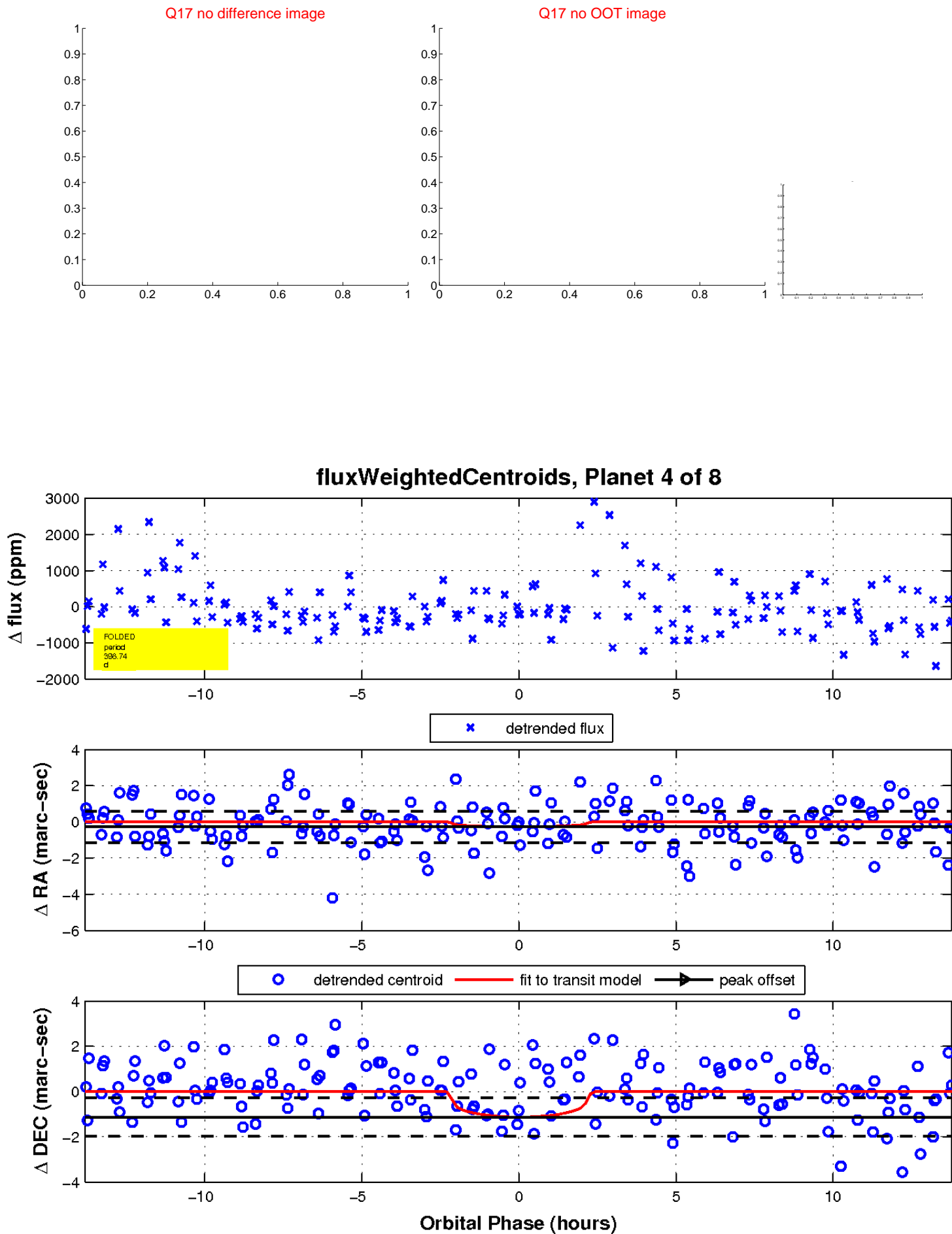
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

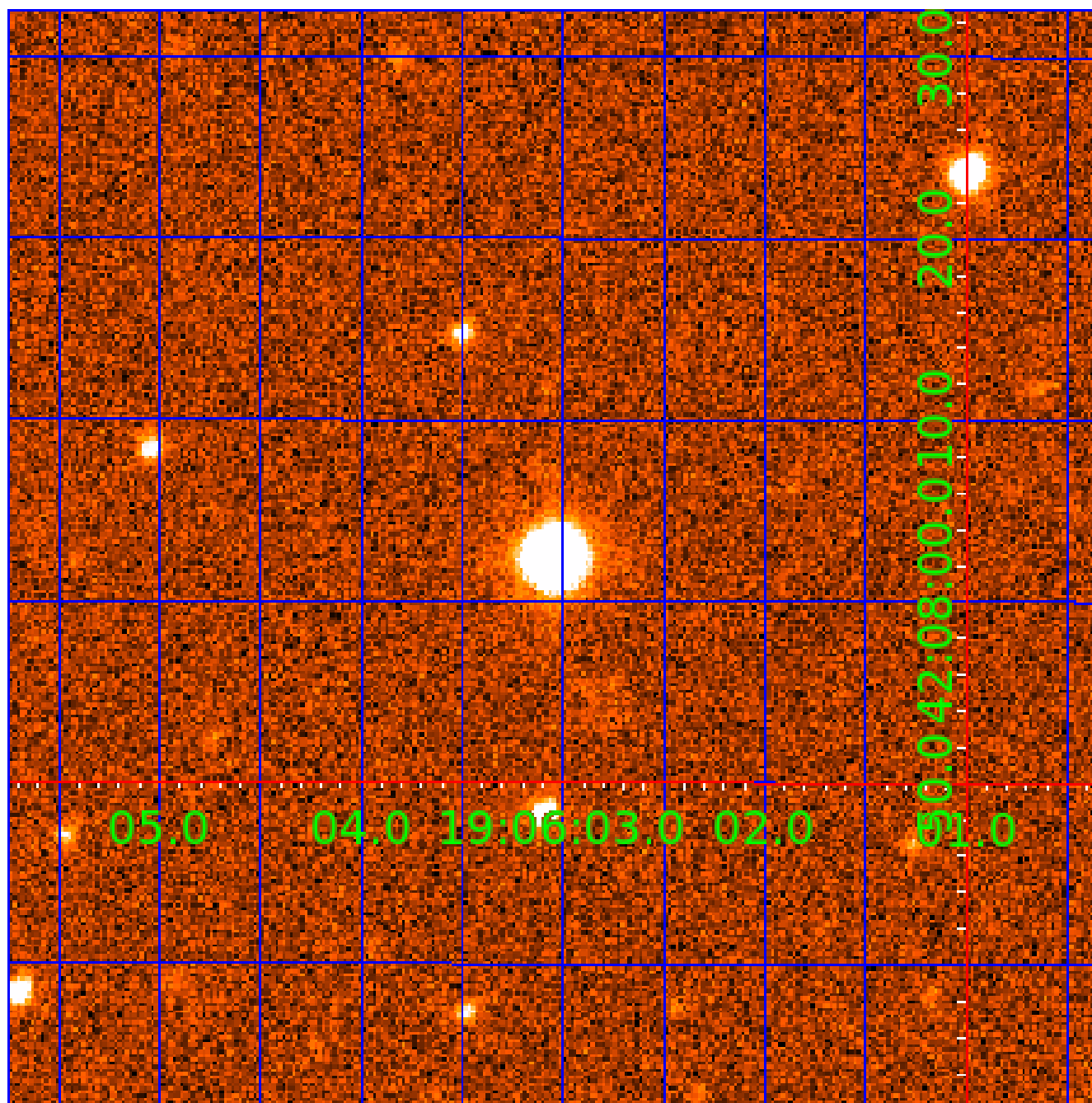


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
006675714-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

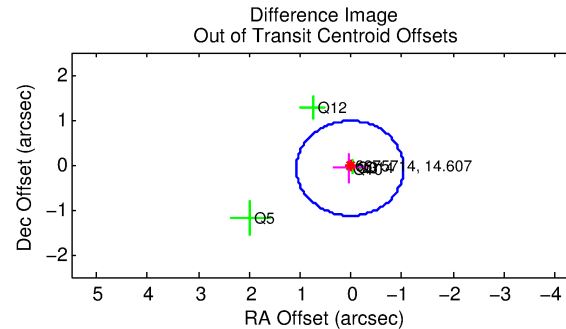
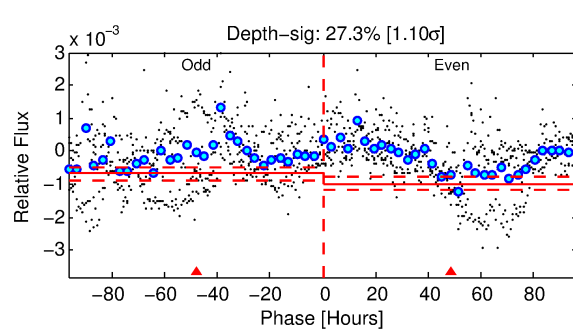
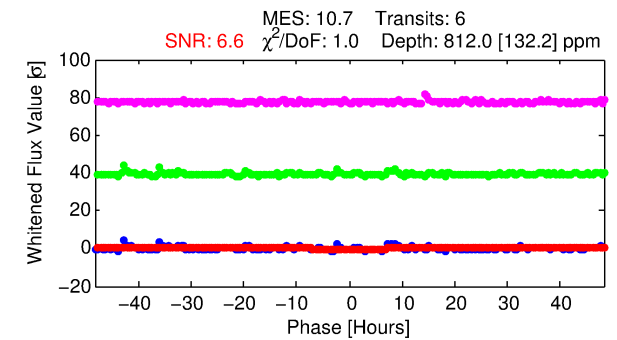
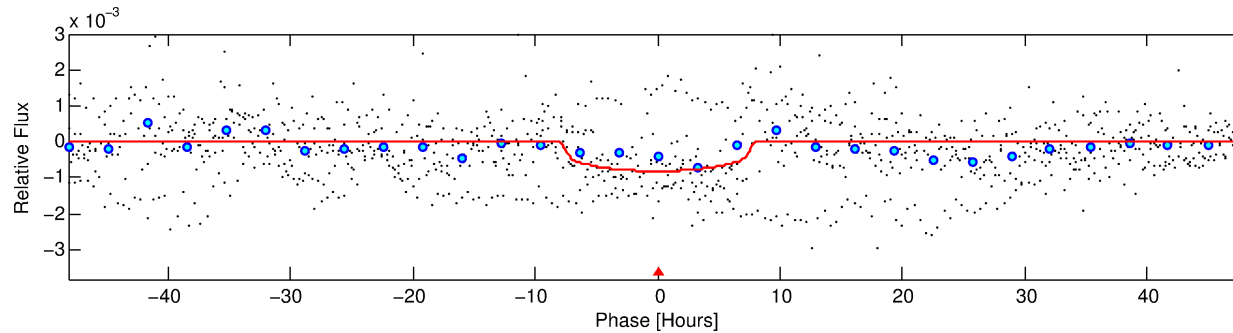
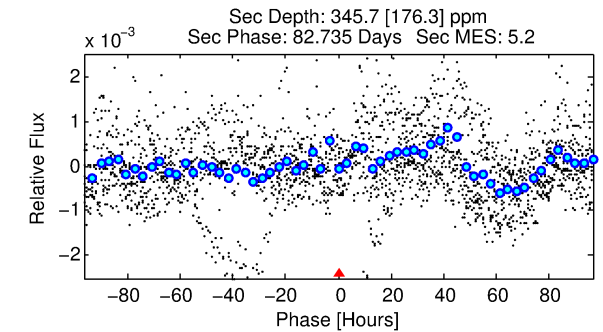
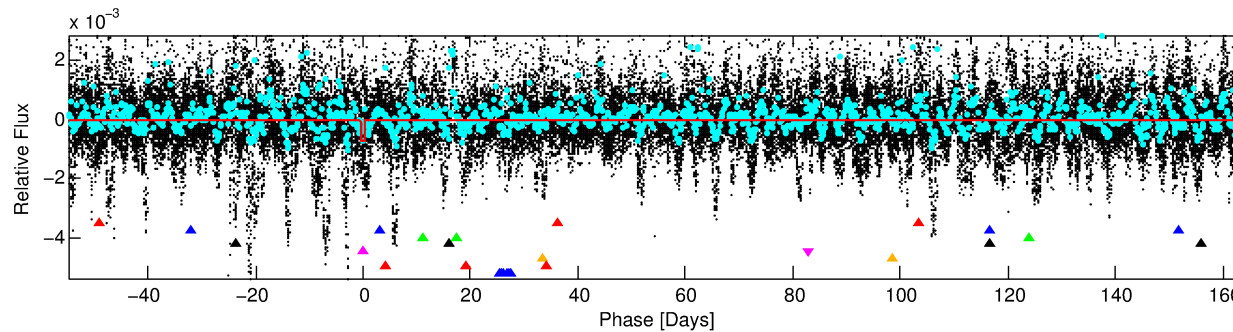
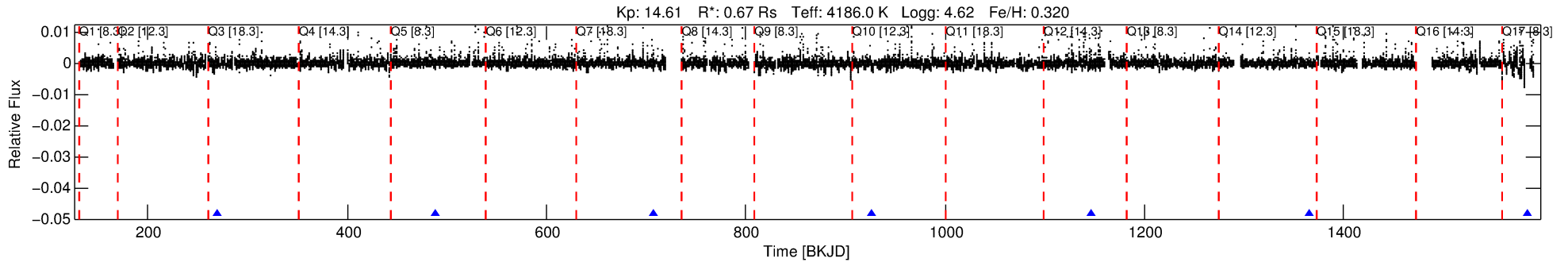
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-05

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 5 of 8 Period: 219.165 d



DV Fit Results:

Period = 219.16489 [0.00511] d
Epoch = 269.2587 [0.0162] BKJD
Rp/R* = 0.0279 [0.0054]
a/R* = 77.74 [40.80]
b = 0.71 [0.38]
Seff = 0.32 [0.06]
Teq = 191 [9] K
Rp = 2.05 [0.43] Re
a = 0.6263 [0.0423] AU
Ag = 17761.27 [11456.84] [1.55σ]
Teffp = 3414 [562] K [5.74σ]

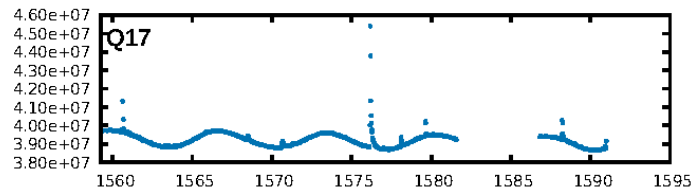
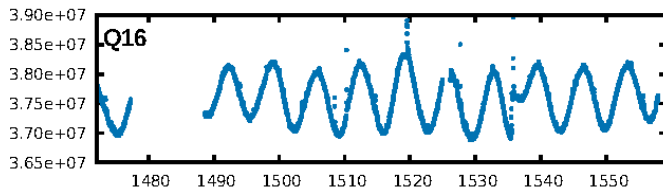
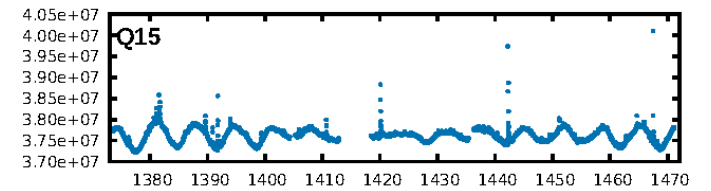
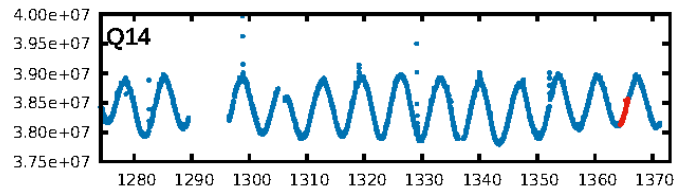
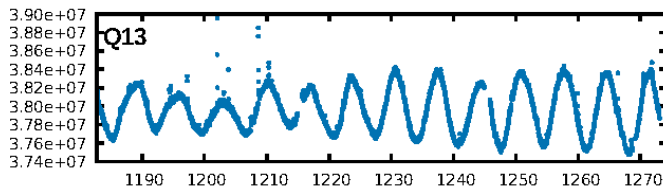
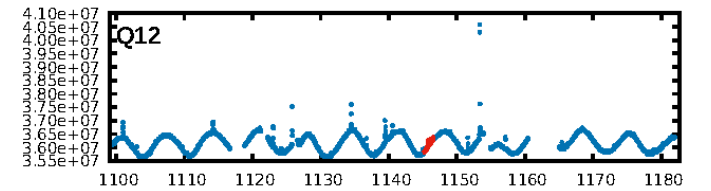
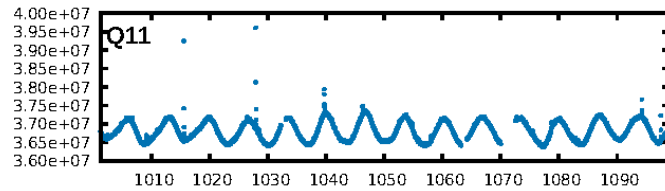
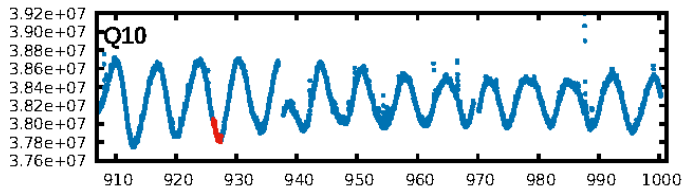
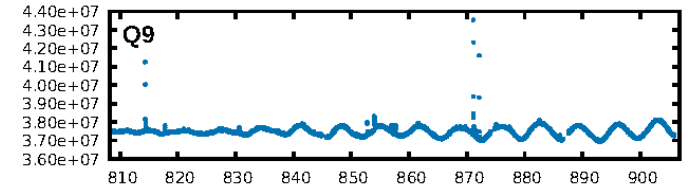
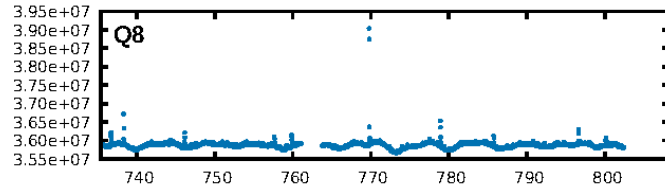
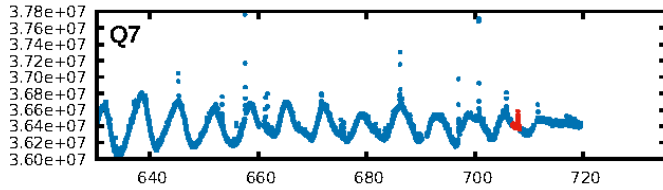
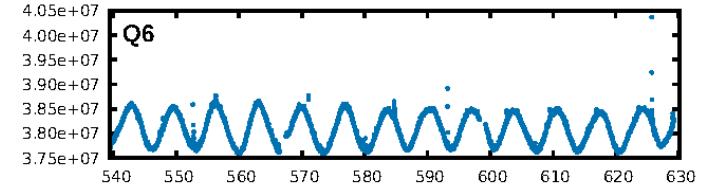
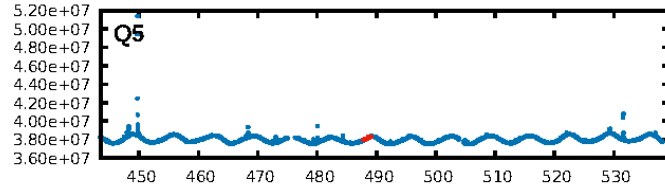
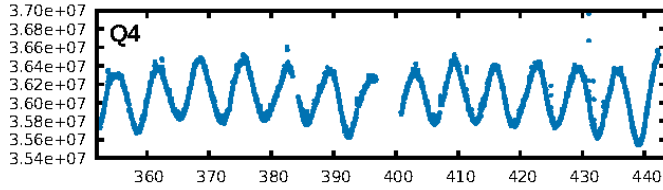
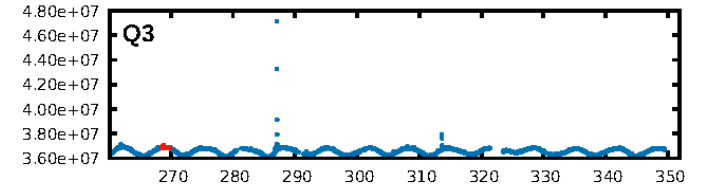
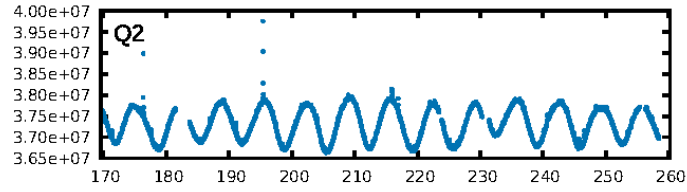
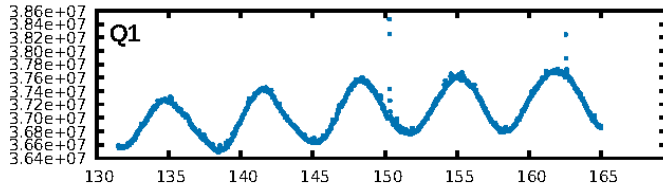
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 50.8% [0.69σ]
ModelChiSquare2-sig: 50.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 3.716
Centroid-sig: 62.0%
Centroid-so: 0.268 arcsec [0.68σ]
OotOffset-rm: 0.085 arcsec [0.24σ]
OotOffset-st: 2/1/1/1 [5]
KicOffset-rm: 0.134 arcsec [0.37σ]
KicOffset-st: 2/1/1/1 [5]
DiffImageQuality-fgm: 0.40 [2/5]
DiffImageOverlap-fno: 1.00 [6/6]

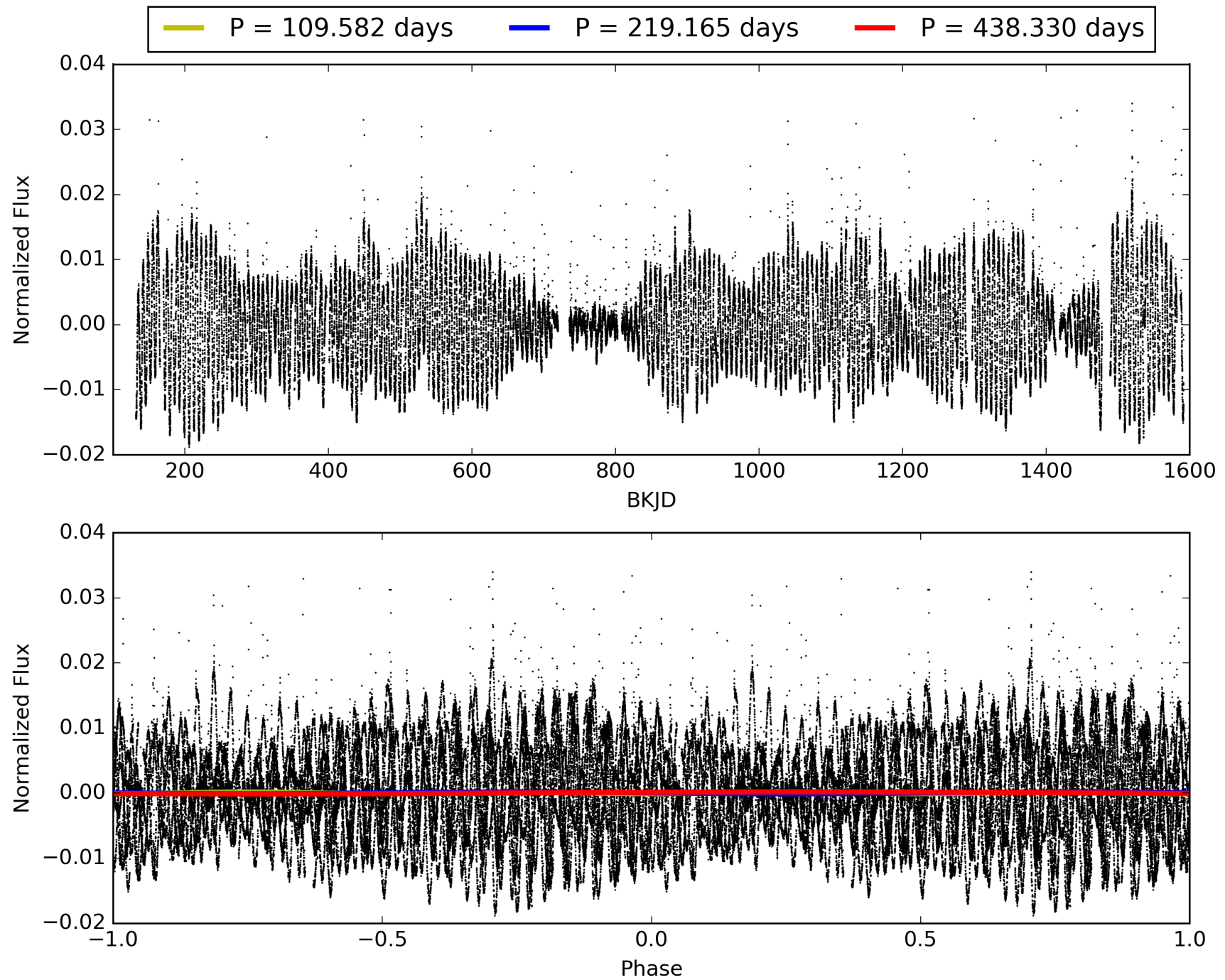
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:01:35 Z

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

TCE 006675714-05, PDC Light Curves

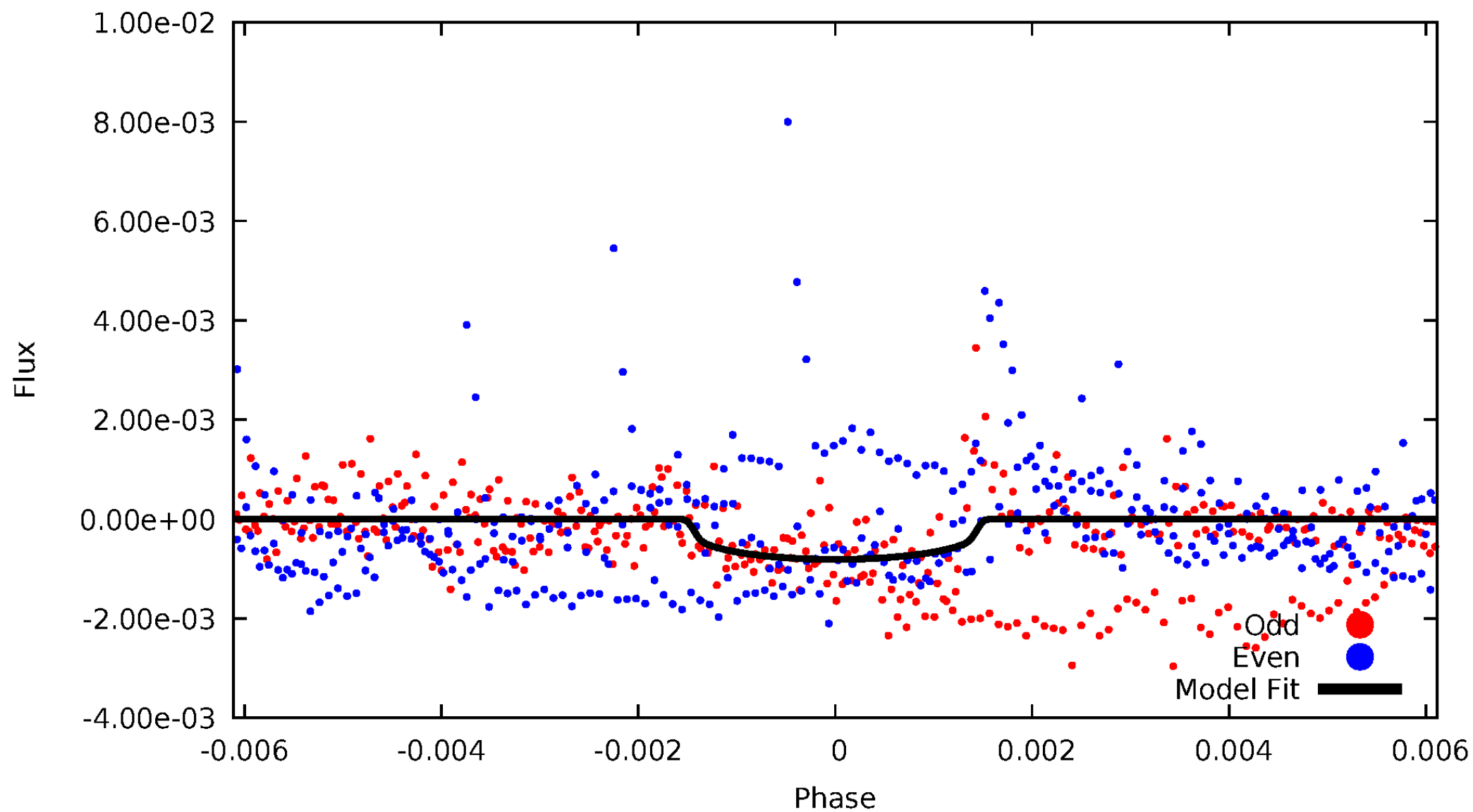


TCE 006675714-05



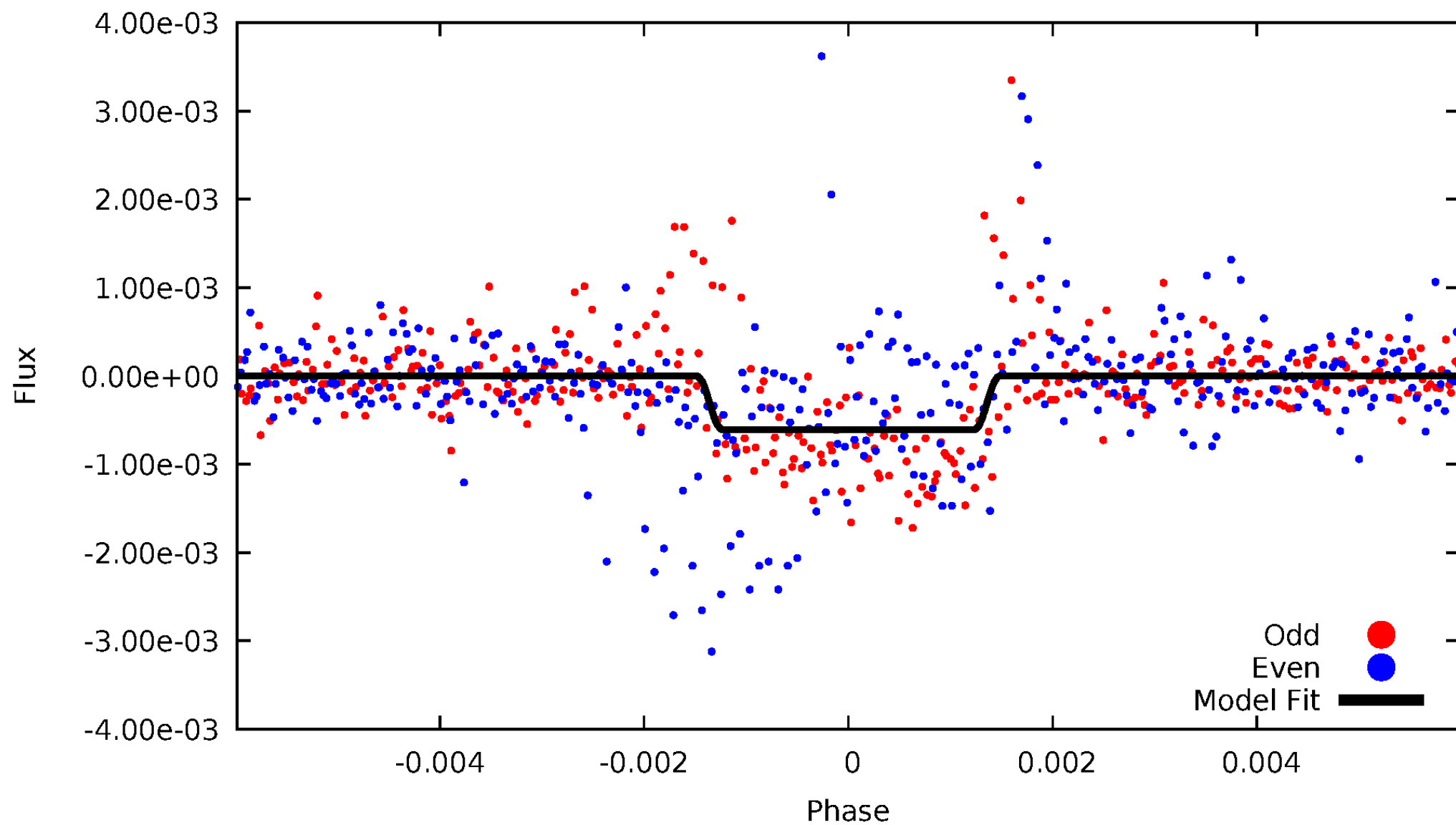
DV Odd/Even

TCE 006675714-05



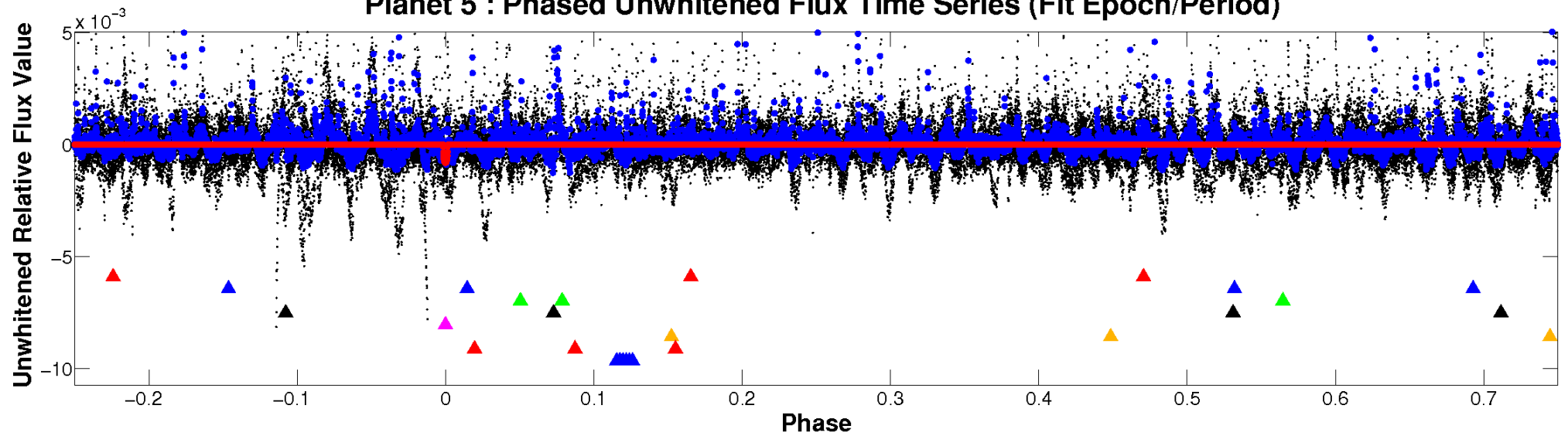
ALT Odd/Even

TCE 006675714-05

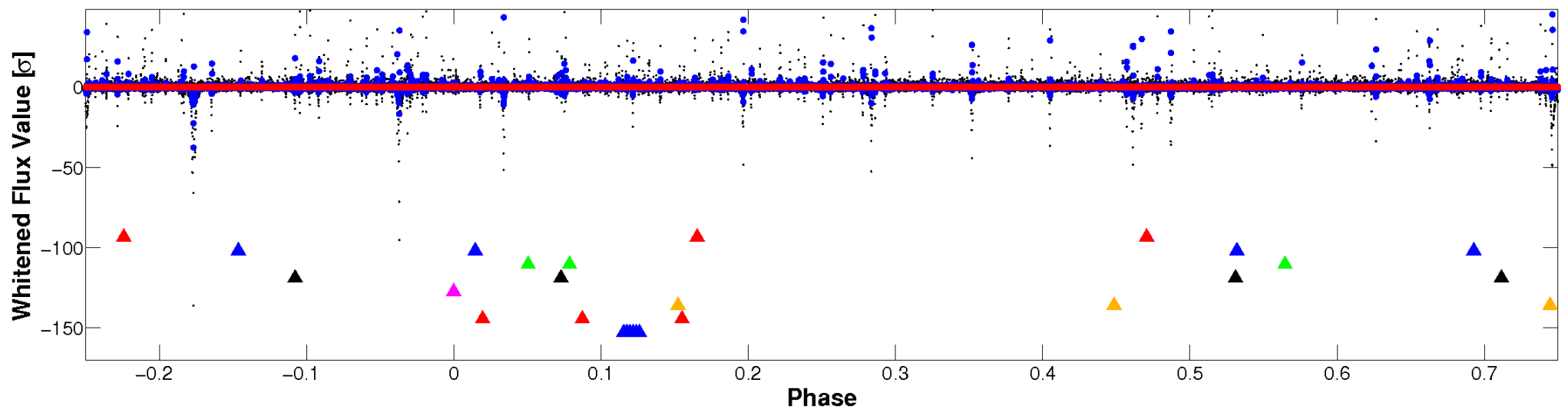


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

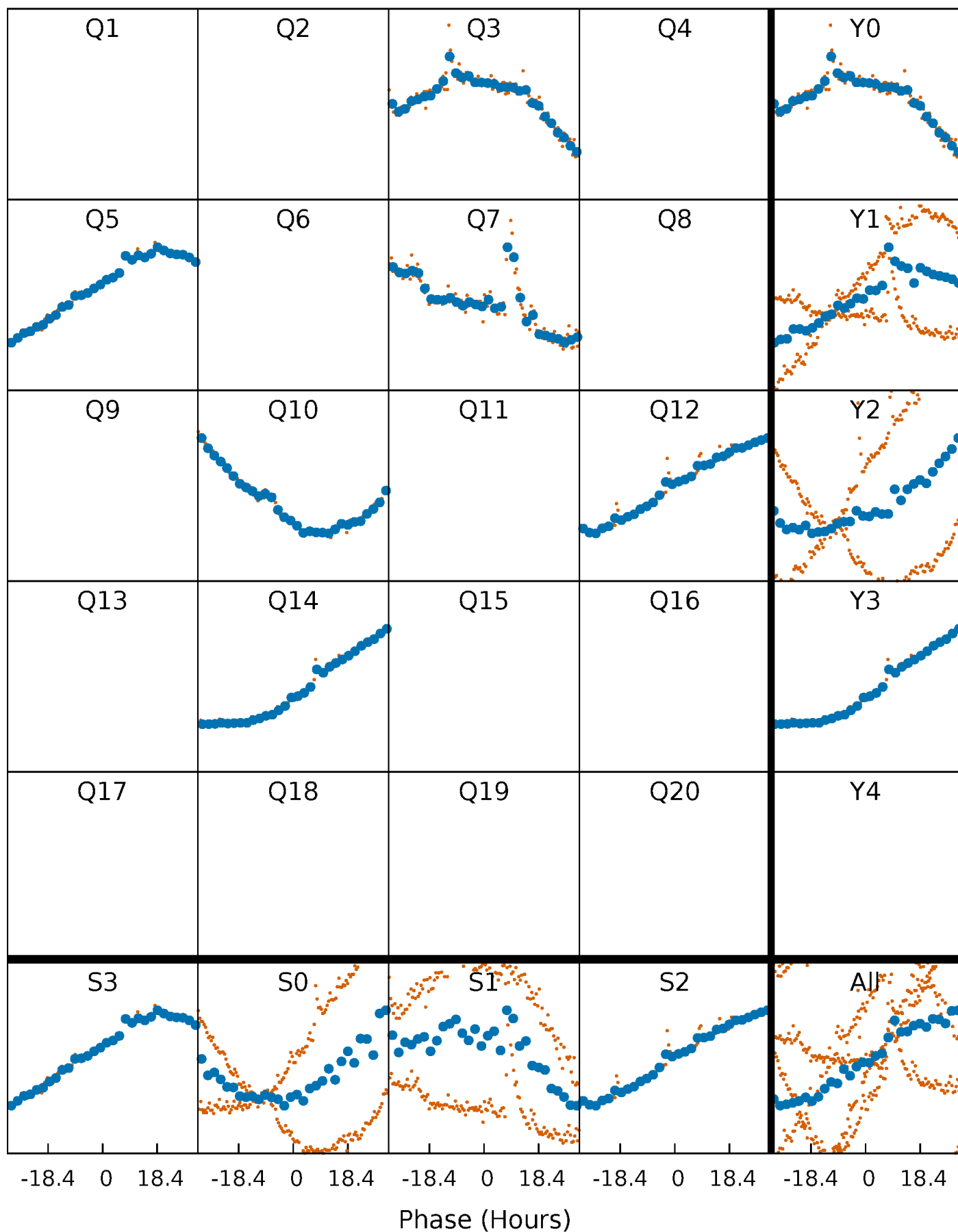


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



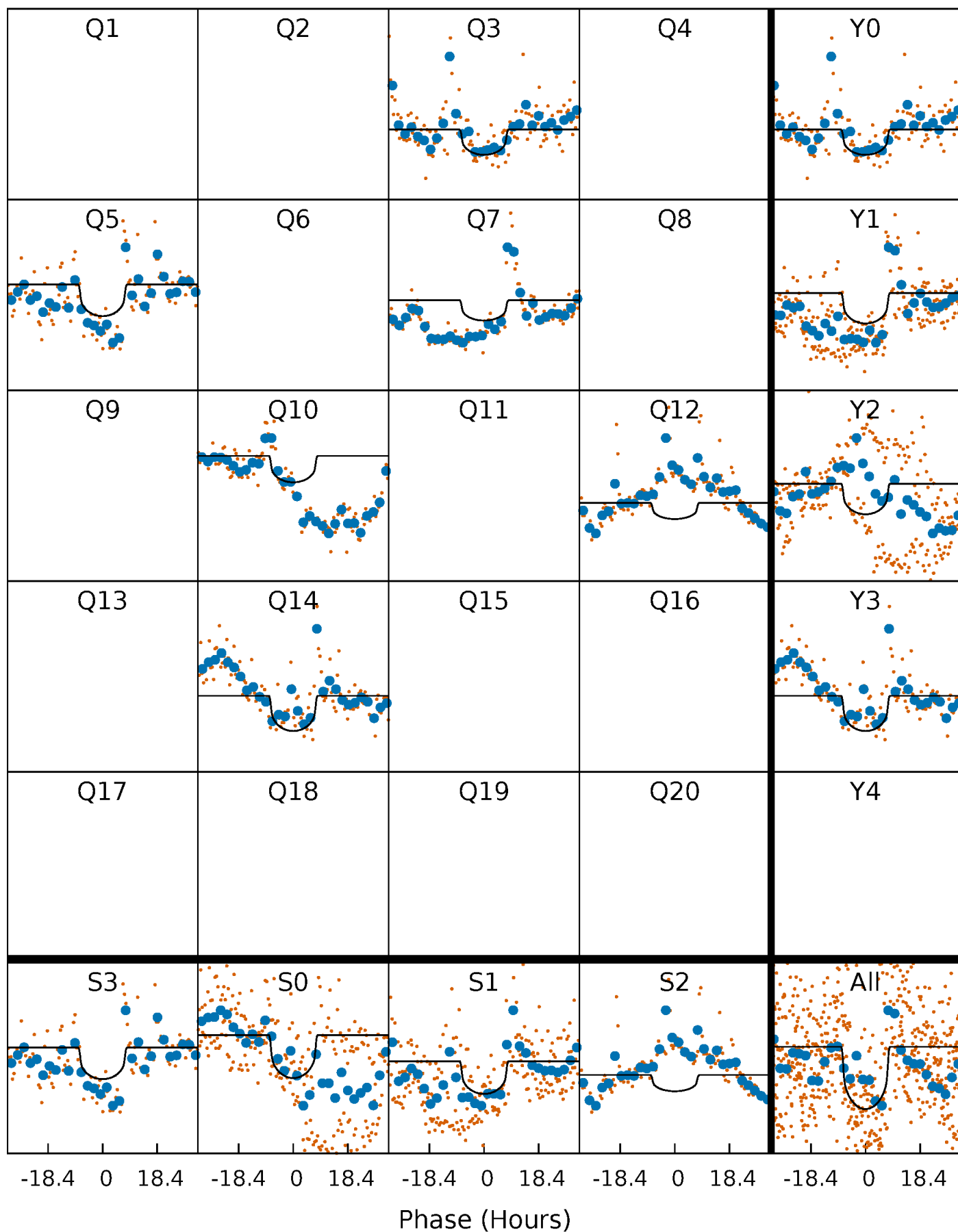
PDC Quarter-Phased Transit Curves

TCE 006675714-05 $P=219.164885$ Days $T_0=269.258651$ (BKJD)



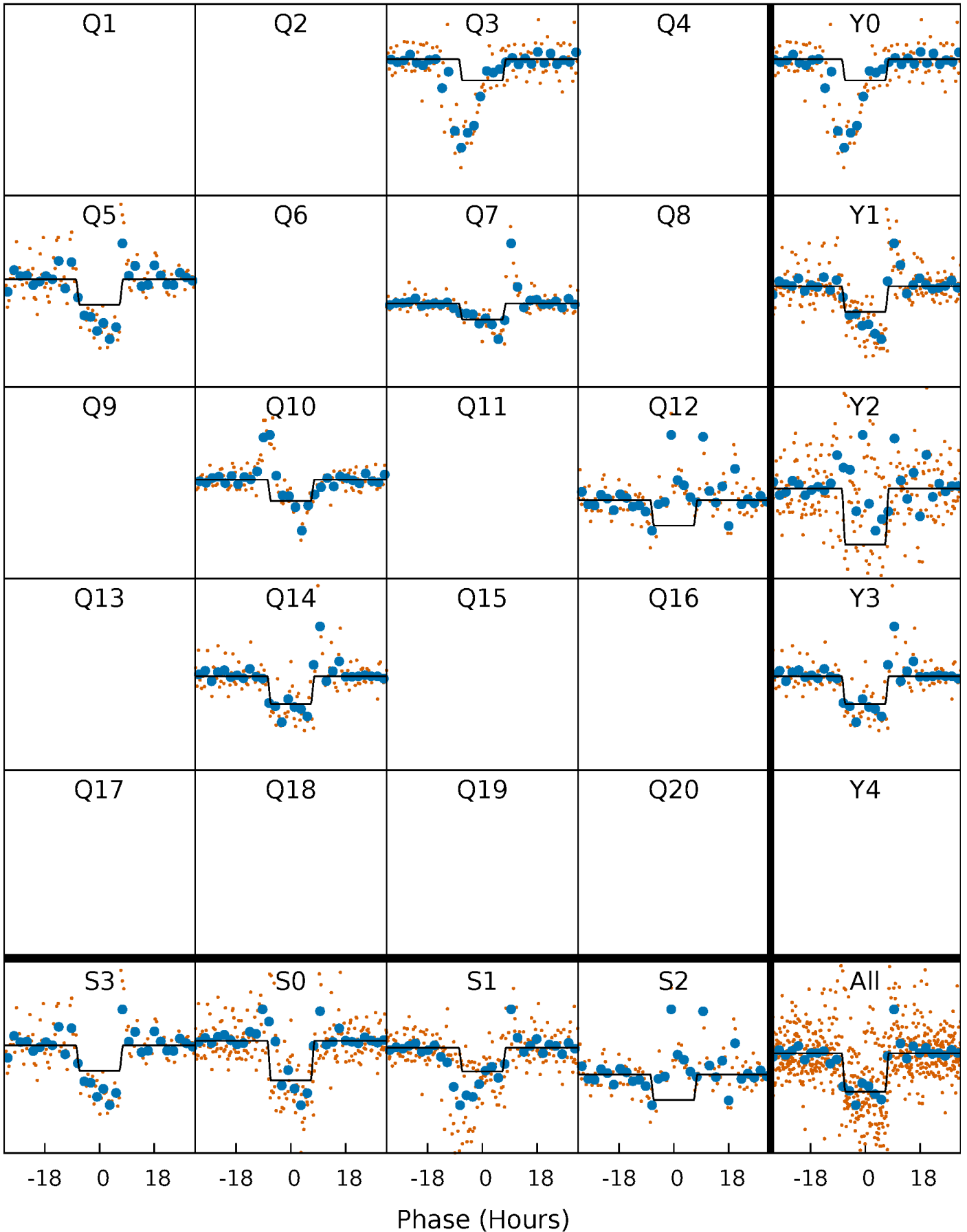
DV Quarter-Phased Transit Curves

TCE 006675714-05 $P=219.164885$ Days $T_0=269.258651$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

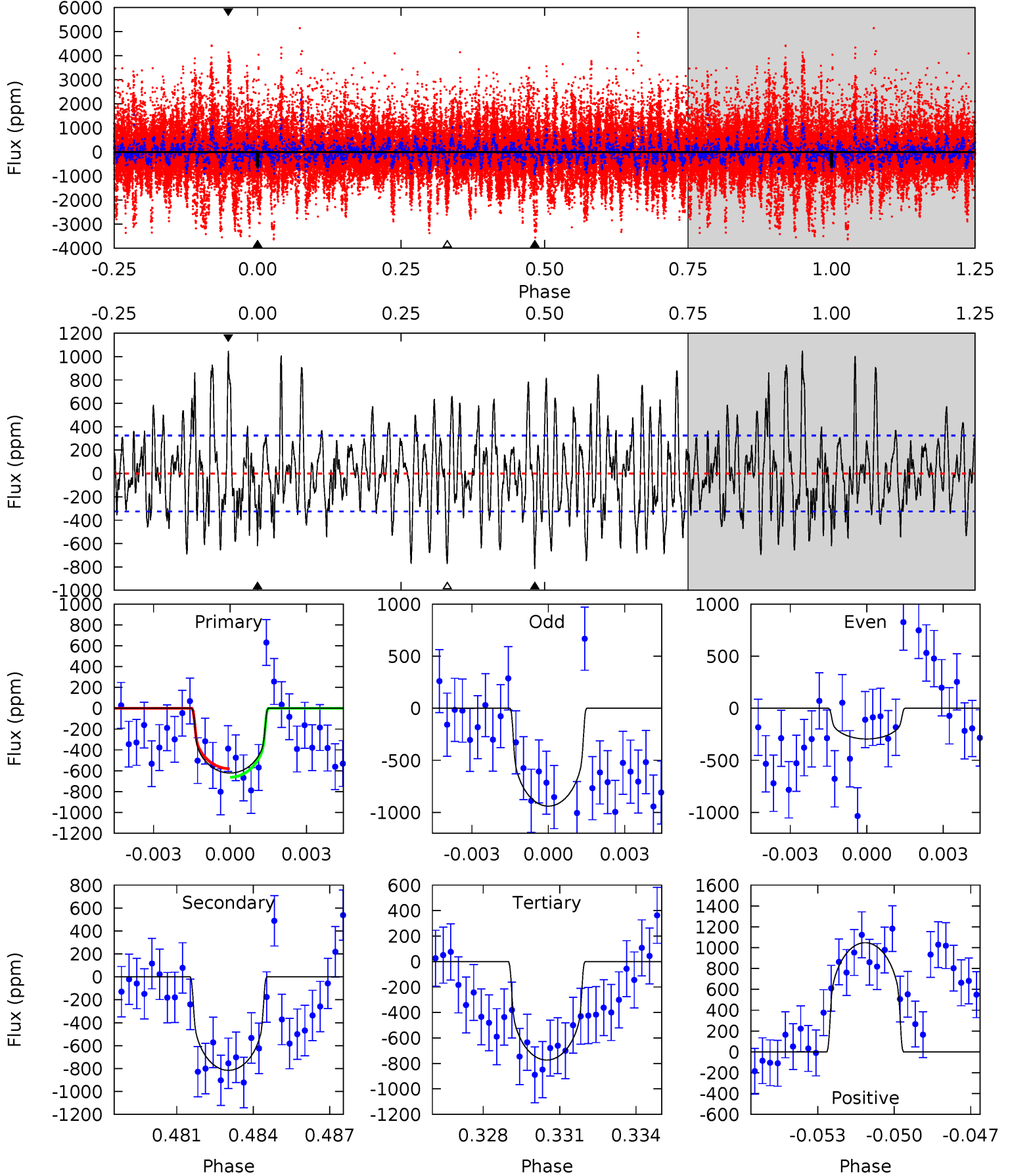
TCE 006675714-05 $P=219.156742$ Days $T_0=269.263276$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-05, P = 219.164885 Days, E = 50.093766 Days

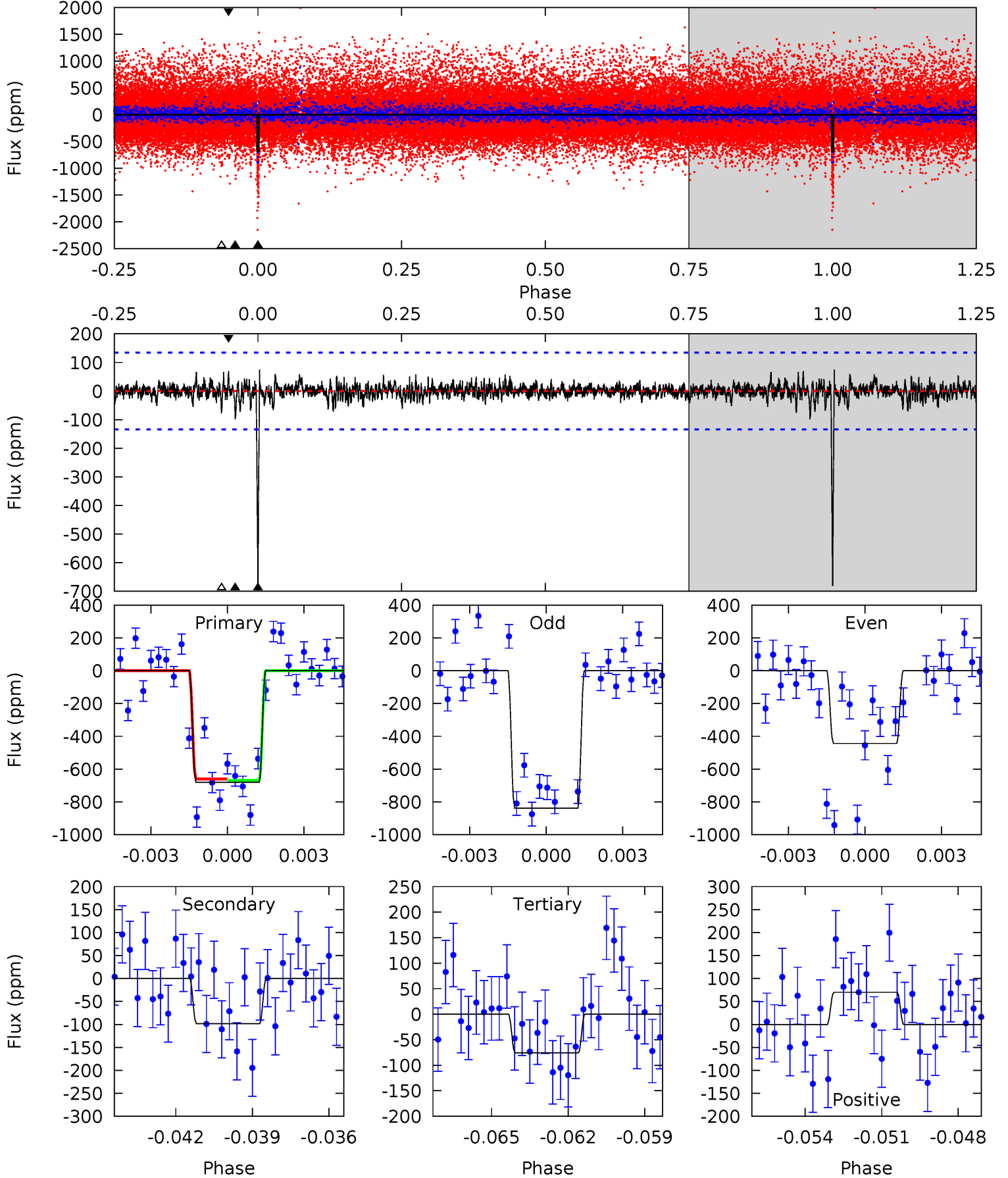
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.0	13.2	12.5	16.9	5.25	2.96	5.08	-2.45	-6.87	0.68	-3.74	5.00	0.55	0.56	0.66



Alt Model-Shift Uniqueness Test

006675714-05, P = 219.156742 Days, E = 50.106534 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.7	3.86	2.97	2.74	5.25	2.97	0.68	23.7	23.9	0.89	1.12	7.76	0.85	0.10	0.15



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-816 ± 62	$2.02^{+0.41}_{-0.41}$	266^{+11}_{-11}	4234^{+398}_{-314}	43718^{+23730}_{-14176}
Alt.	-98 ± 26	$1.79^{+0.39}_{-0.38}$	265^{+11}_{-10}	3114^{+261}_{-232}	6666^{+4374}_{-2587}

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

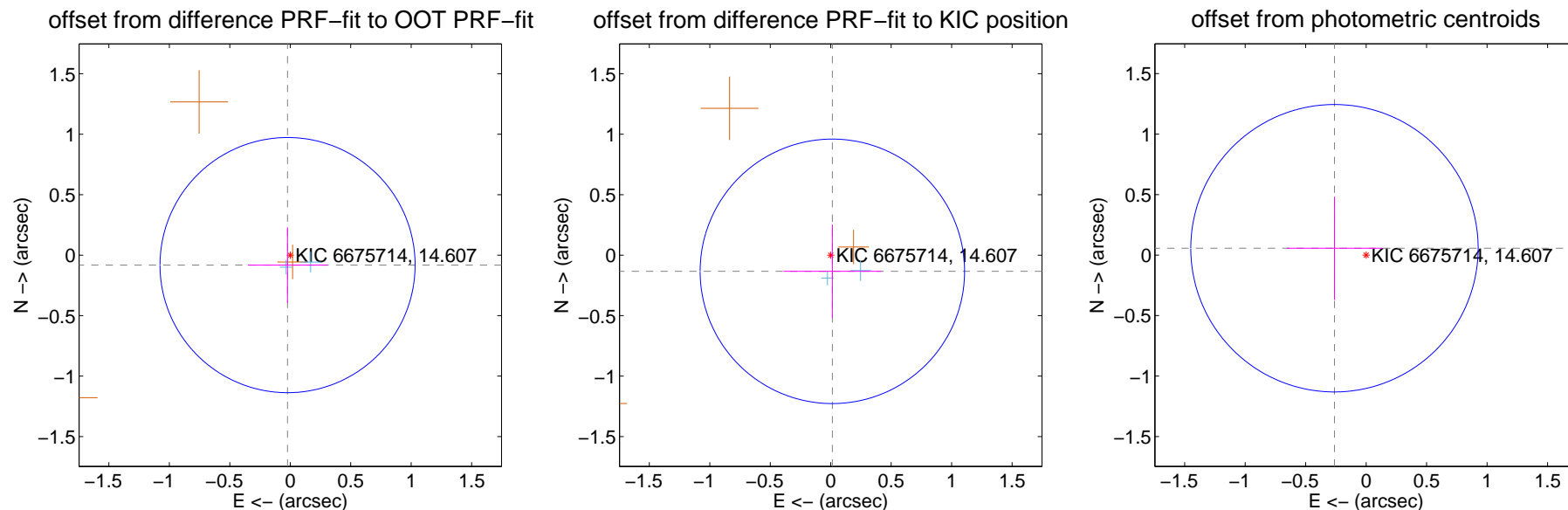
DV Centroid Data

Supplemental centroid analysis for 006675714-05. Kepler magnitude: 14.61. Transit SNR 6.65

There are 2 quarters with good PRF difference image offsets

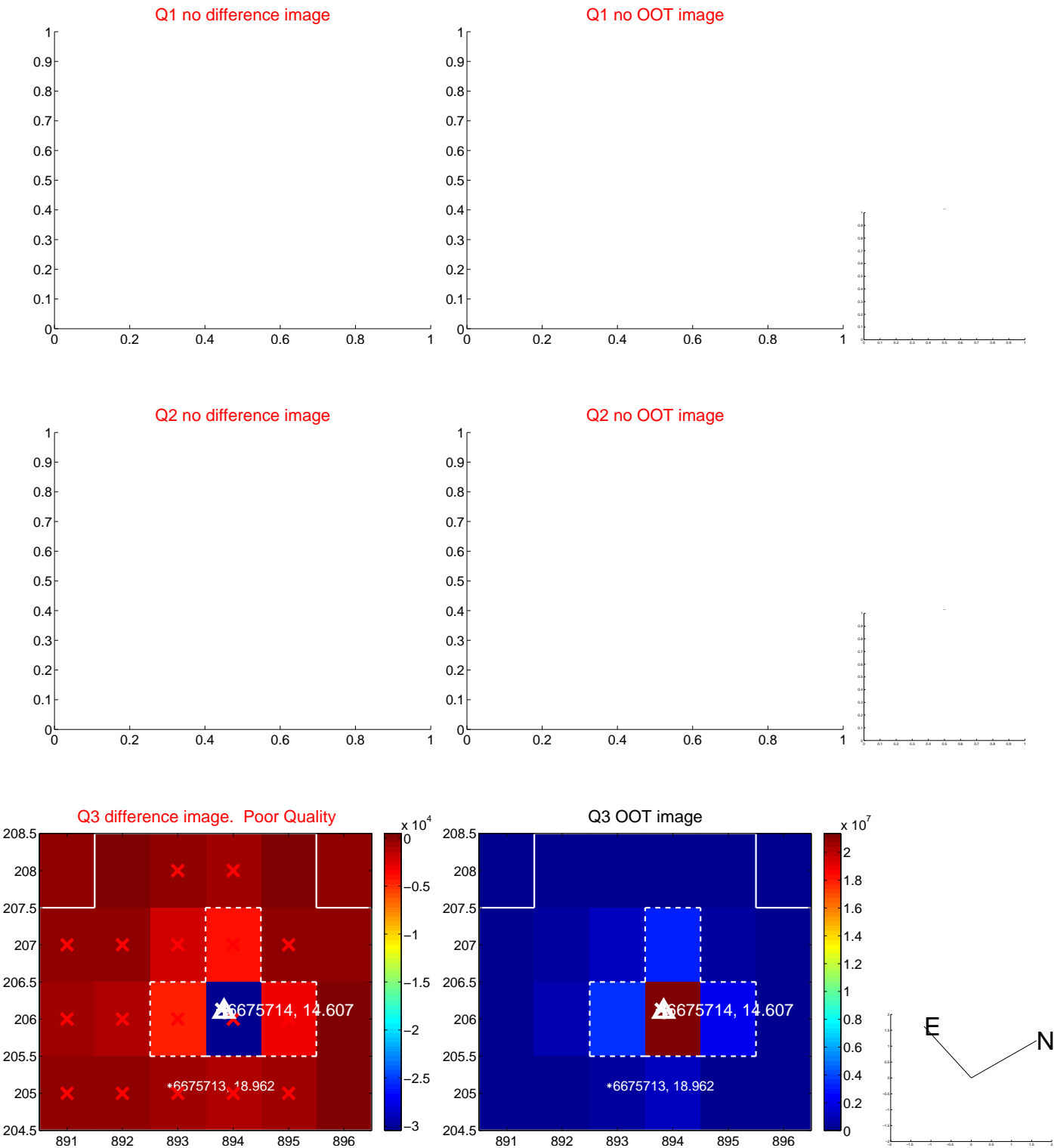
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.085 ± 0.352	0.24	0.022 ± 0.329	-0.082 ± 0.312
PRF-fit source offset from KIC position	0.134 ± 0.364	0.37	-0.014 ± 0.404	-0.134 ± 0.387
photometric centroid source offset	0.27 ± 0.40	0.68	0.26 ± 0.39	0.06 ± 0.43

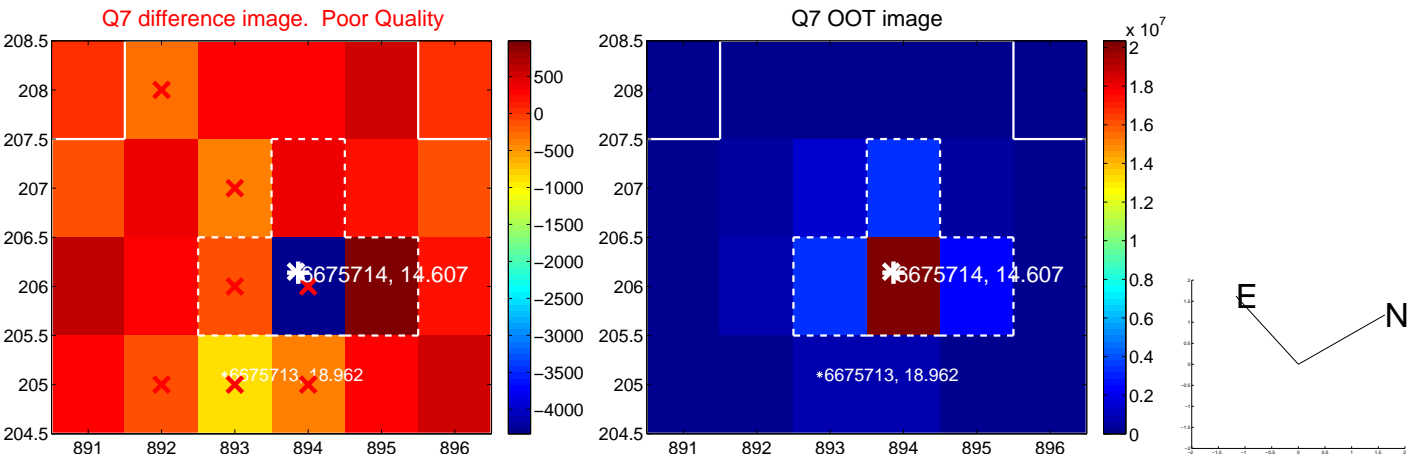
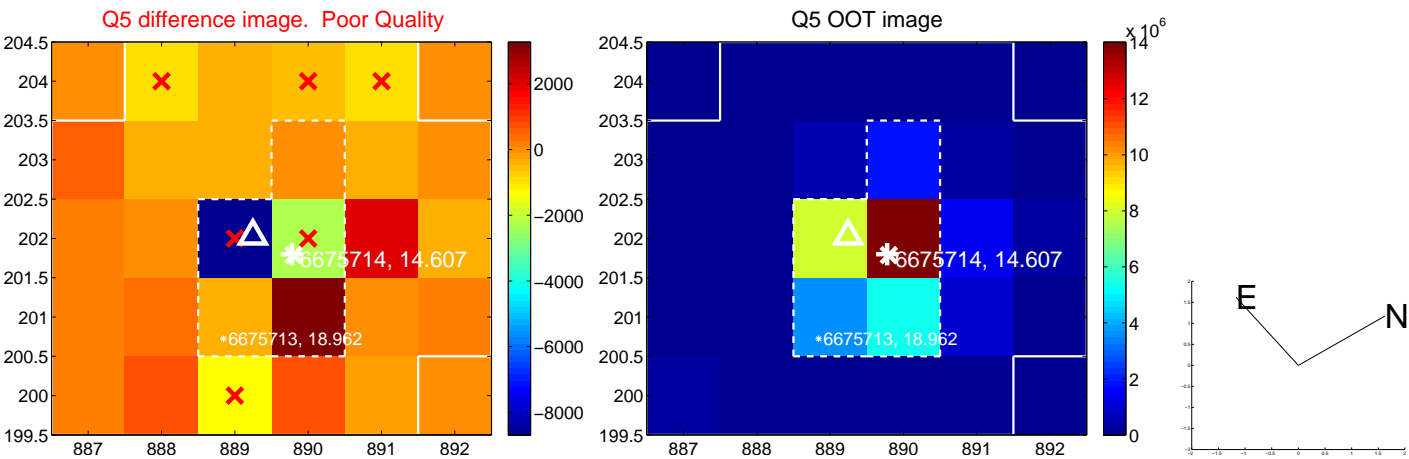


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

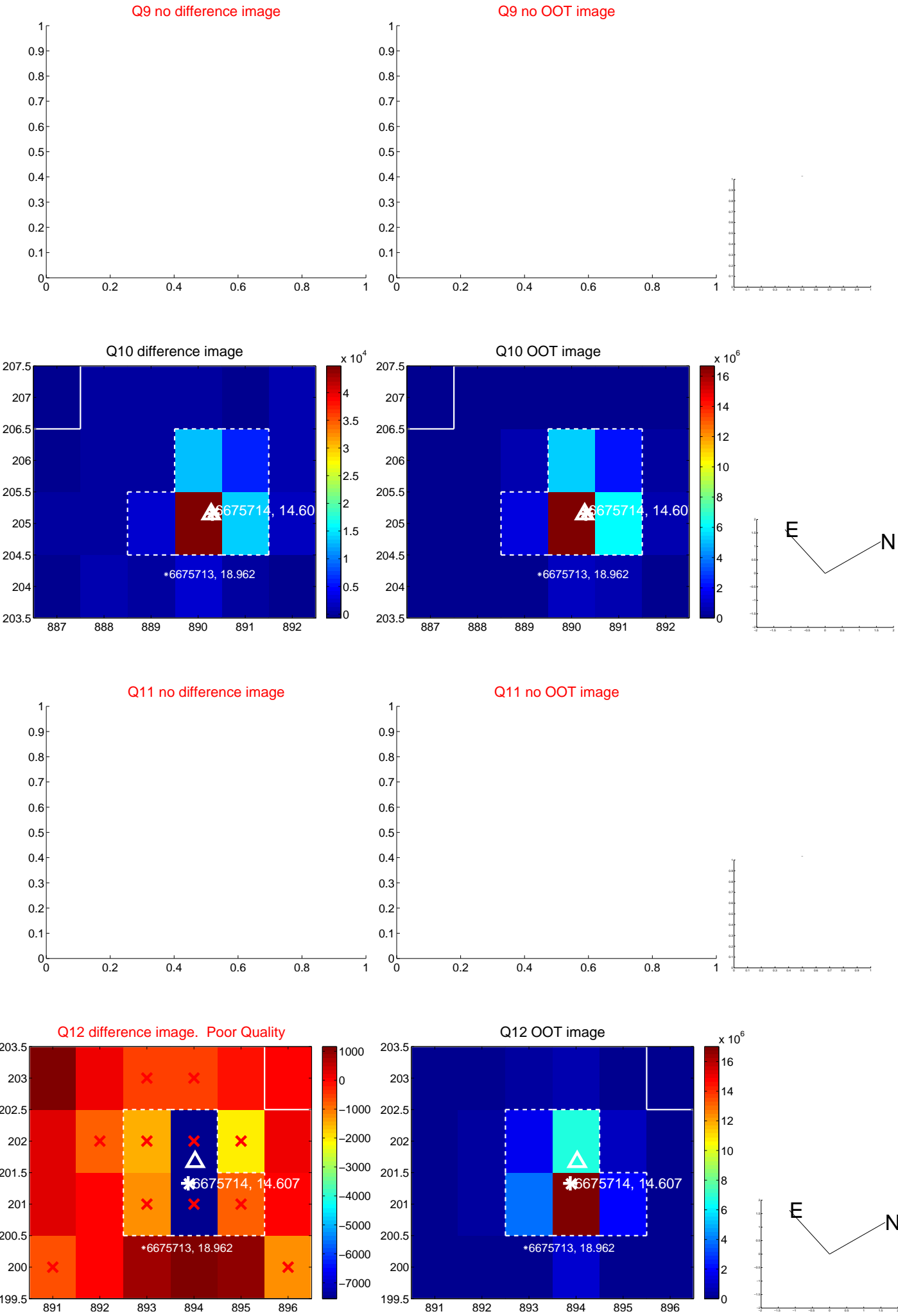
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



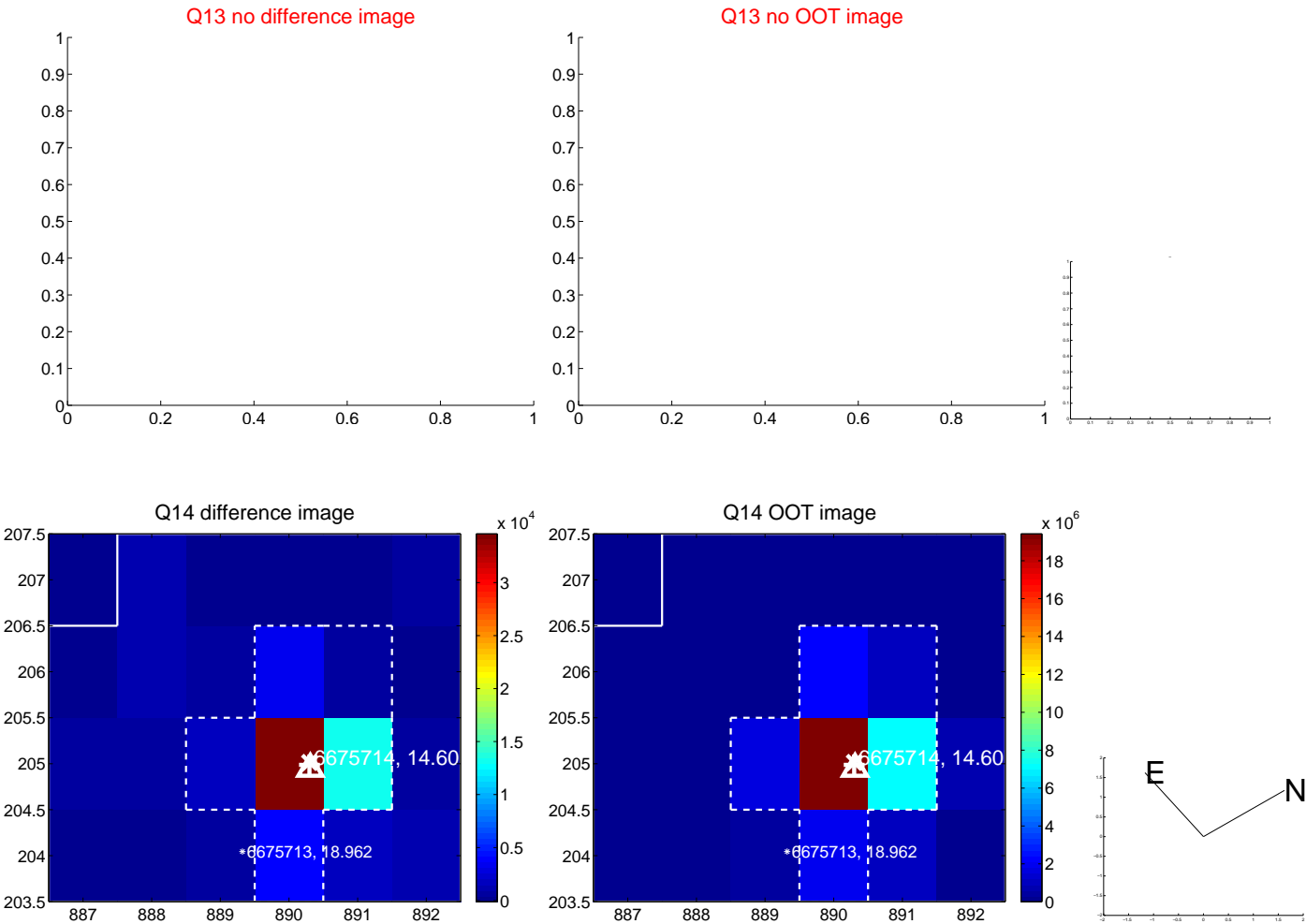
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



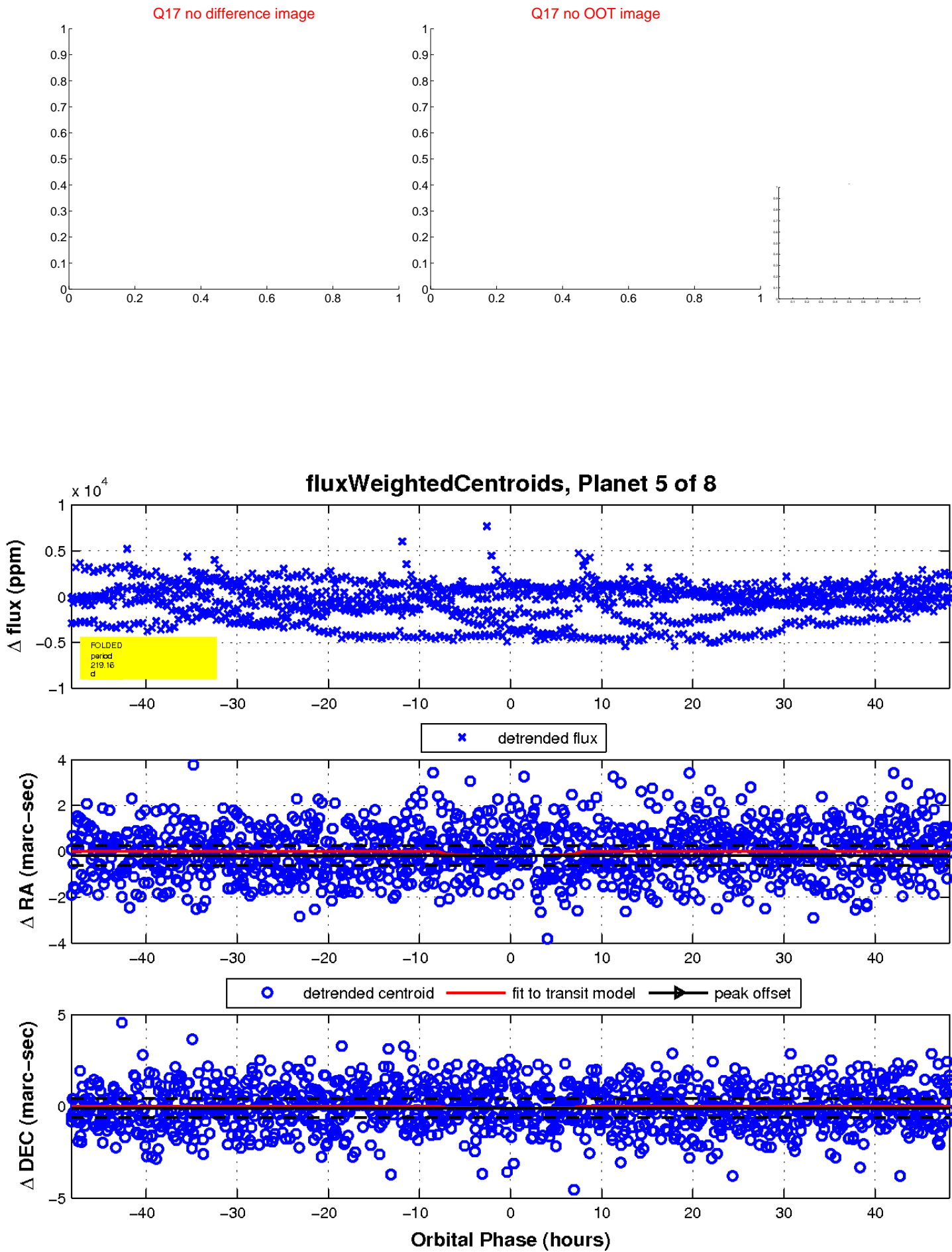
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

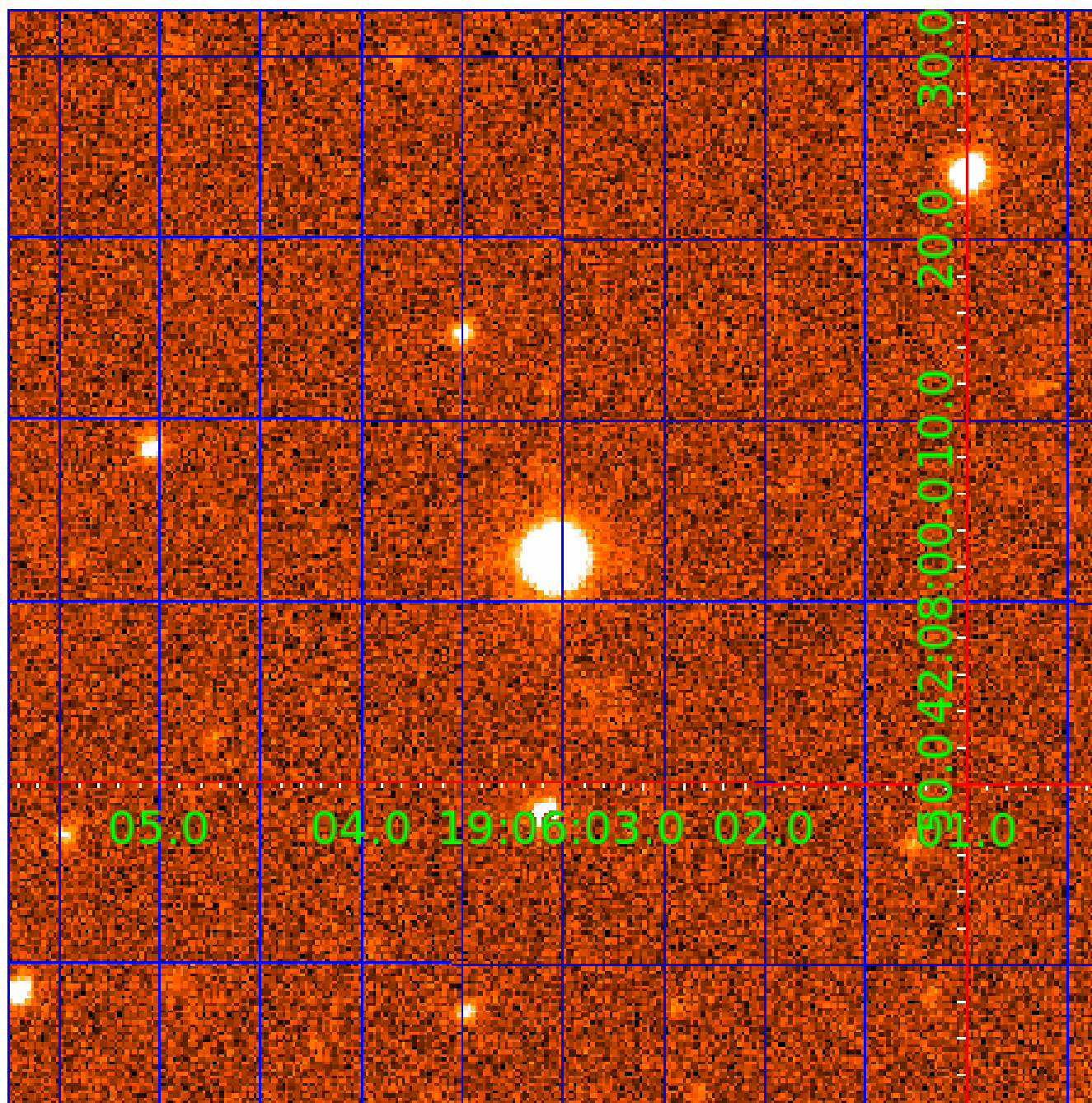


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
006675714-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

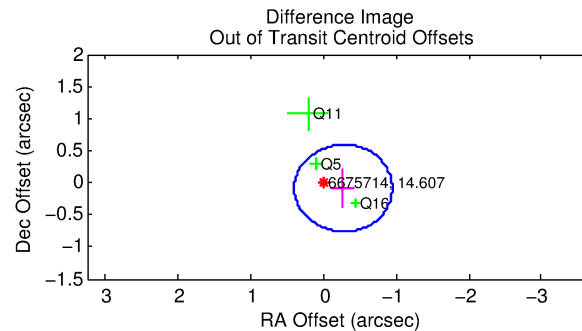
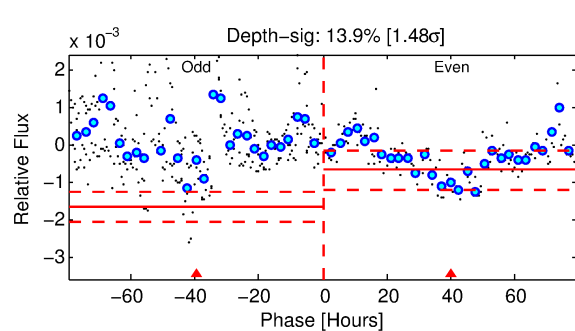
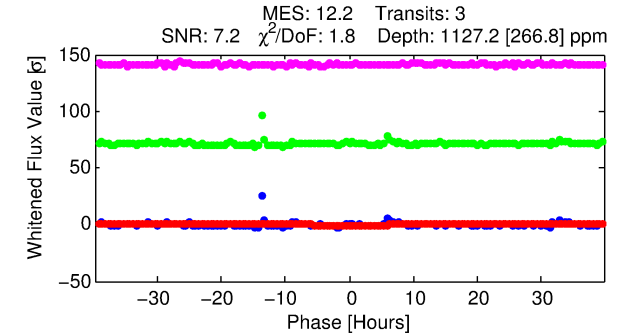
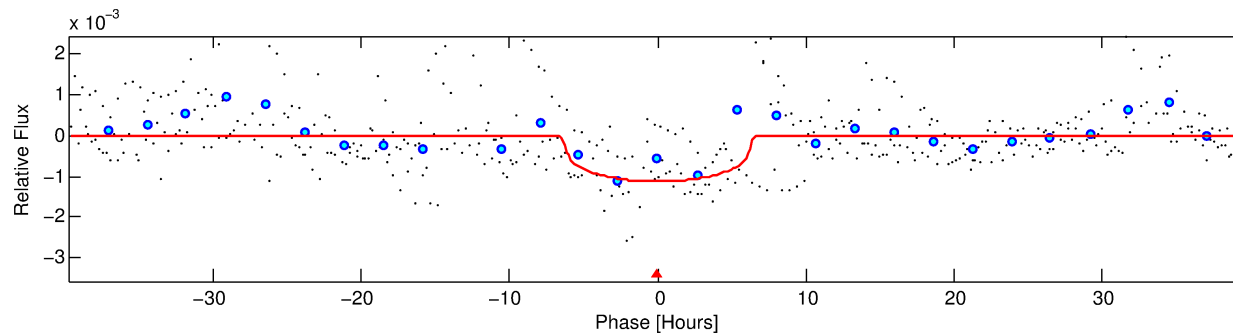
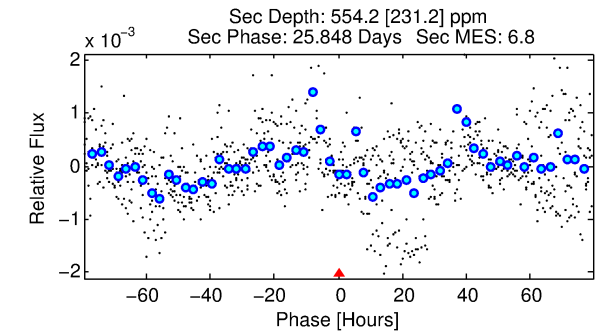
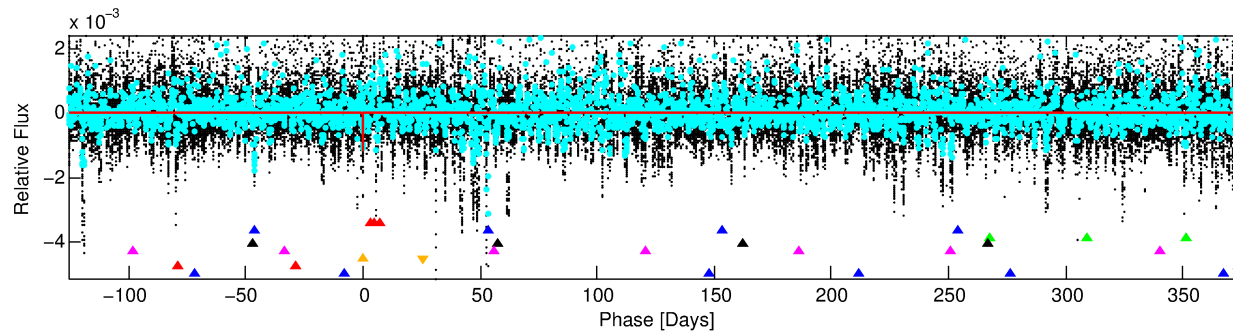
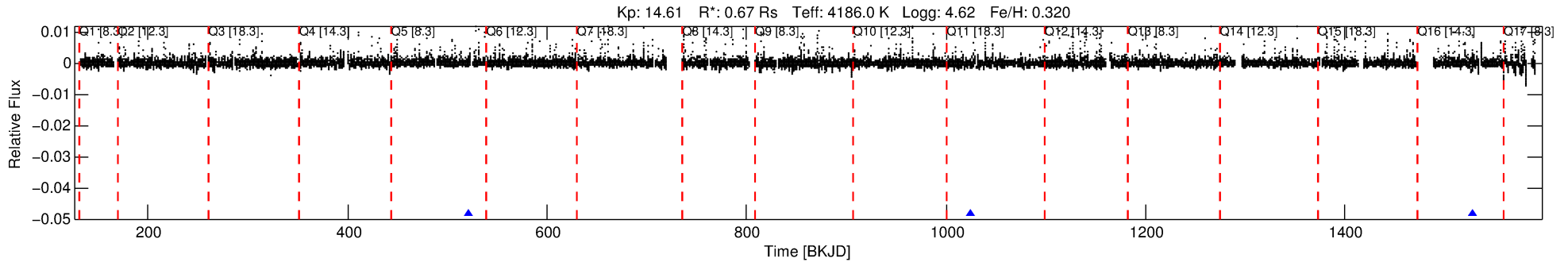
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-06

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 6 of 8 Period: 503.246 d



DV Fit Results:

Period = 503.24556 [0.01423] d
Epoch = 521.8052 [0.0172] BKJD
Rp/R* = 0.0323 [0.0116]
a/R* = 228.75 [232.35]
b = 0.66 [0.86]
Seff = 0.10 [0.02]
Teq = 145 [7] K
Rp = 2.37 [0.88] Re
a = 1.0901 [0.0736] AU
Ag = 64420.44 [53918.52] [1.19σ]
Teffp = 3571 [756] K [4.53σ]

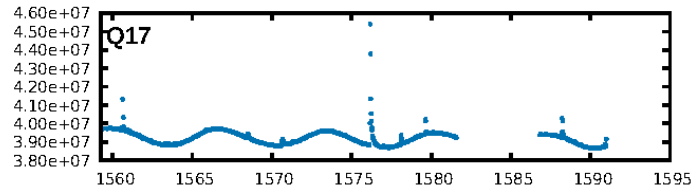
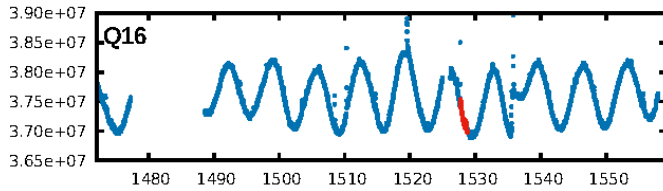
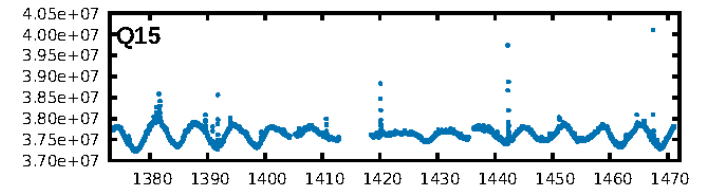
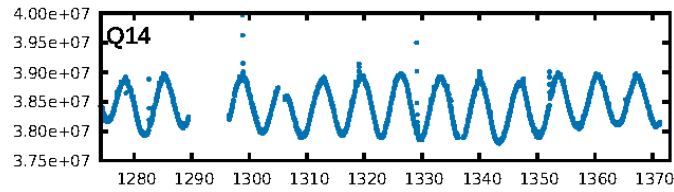
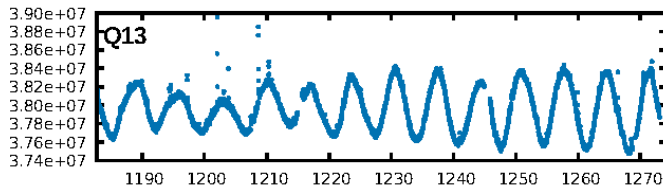
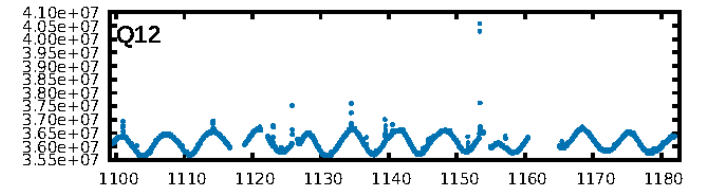
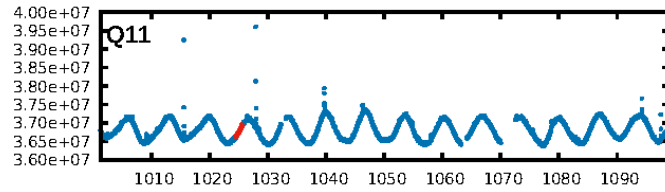
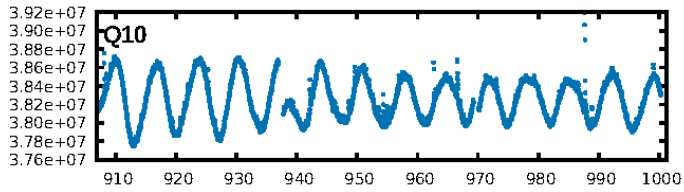
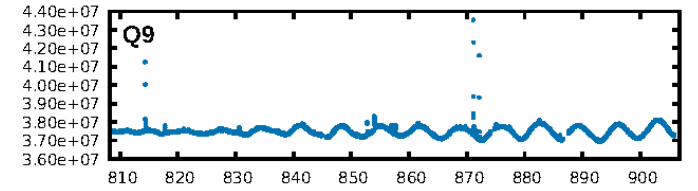
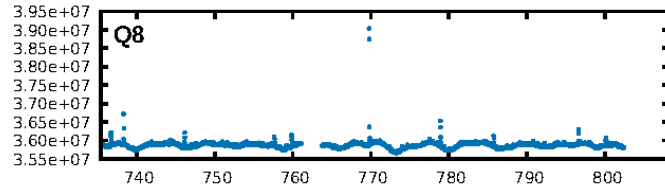
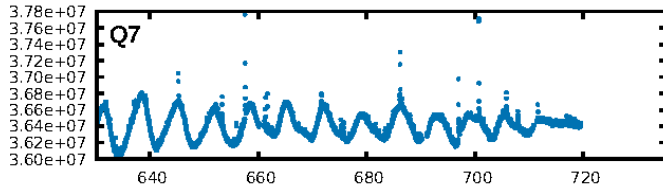
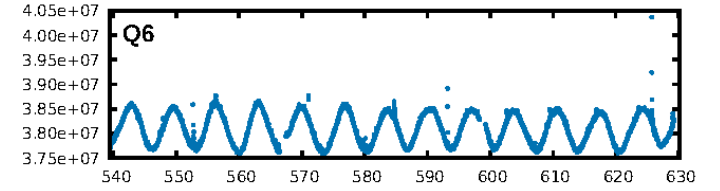
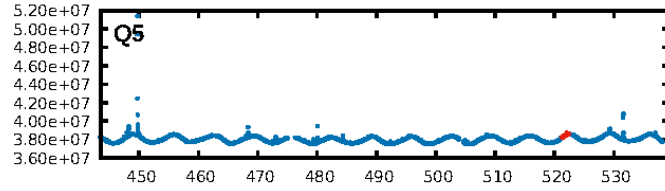
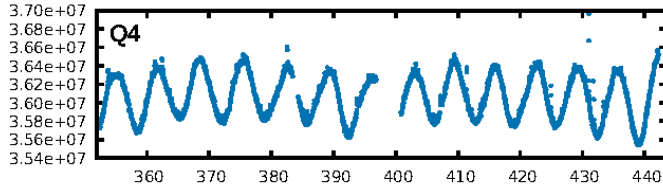
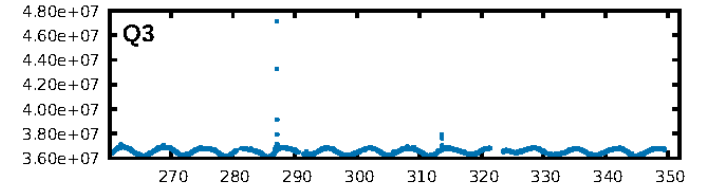
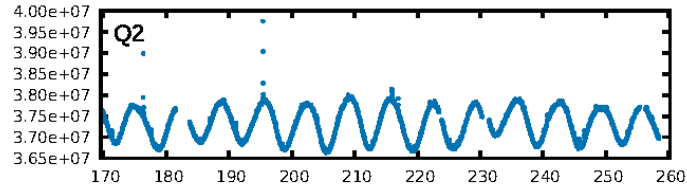
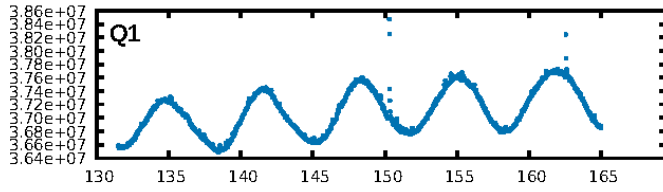
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [58.26σ]
LongPeriod-sig: 95.9% [2.05σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 43.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 4.741
Centroid-sig: 59.6%
Centroid-so: 0.329 arcsec [0.71σ]
OotOffset-rm: 0.287 arcsec [1.27σ]
KicOffset-rm: 0.229 arcsec [0.98σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

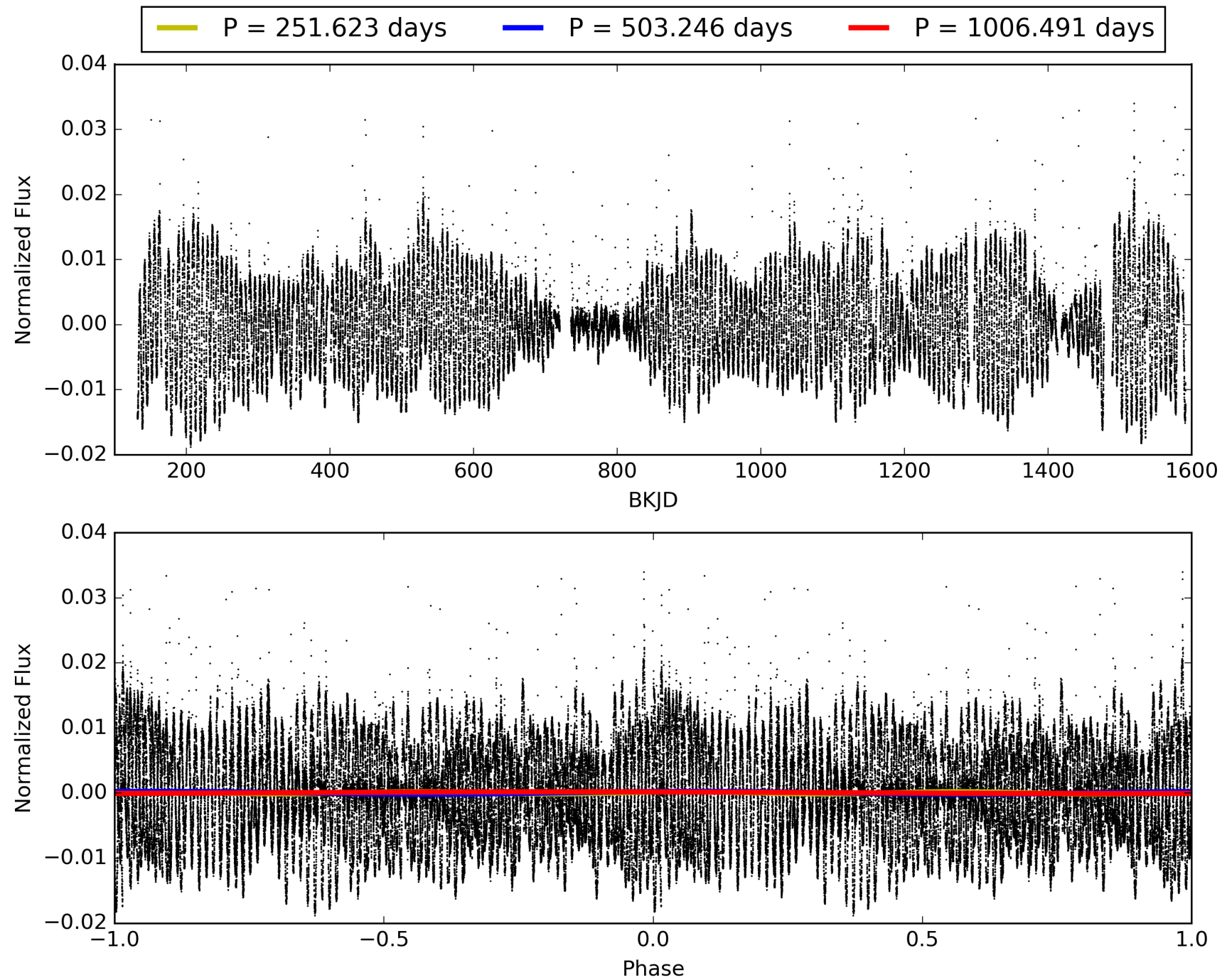
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:01:44 Z

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

TCE 006675714-06, PDC Light Curves

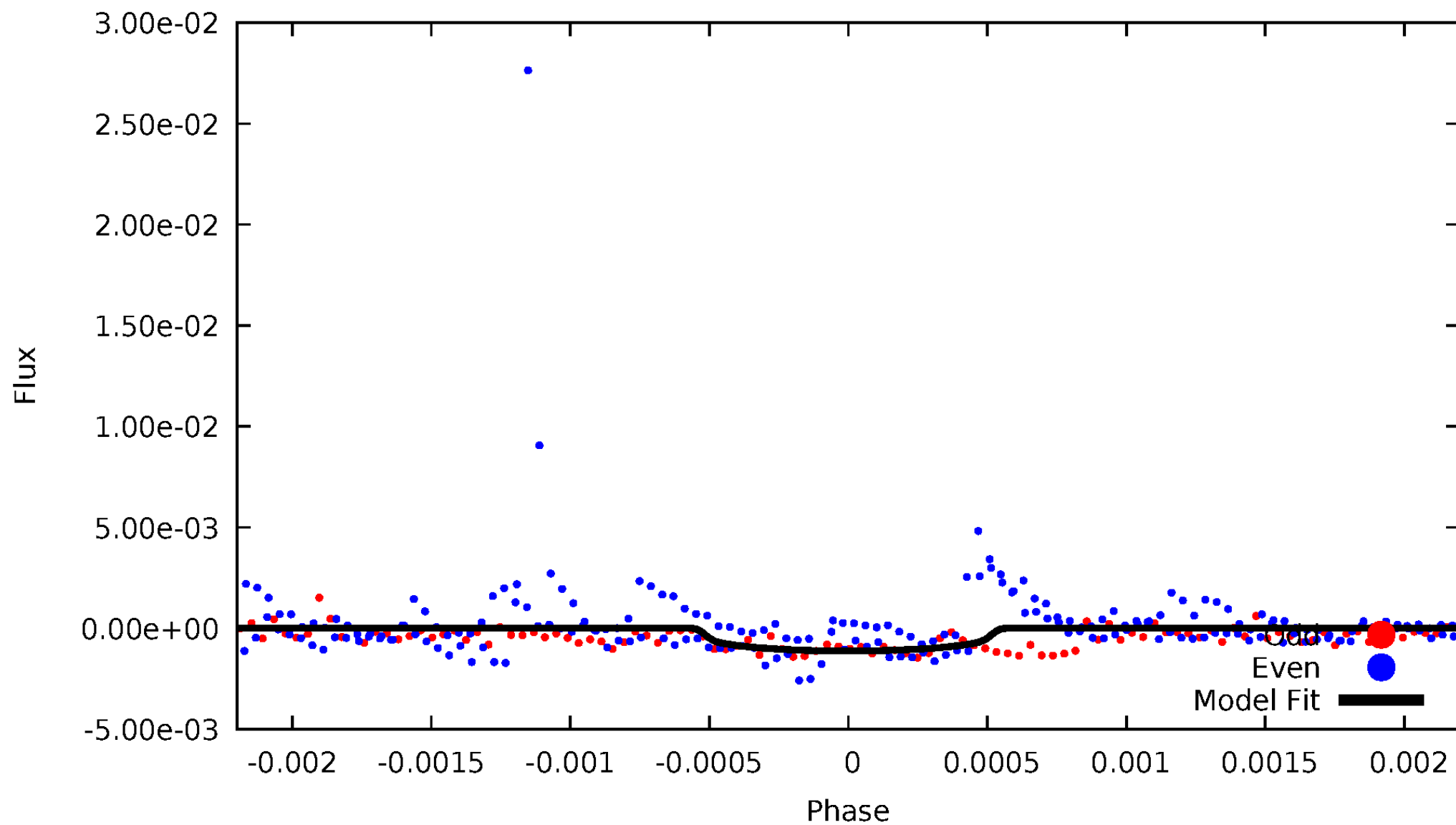


TCE 006675714-06



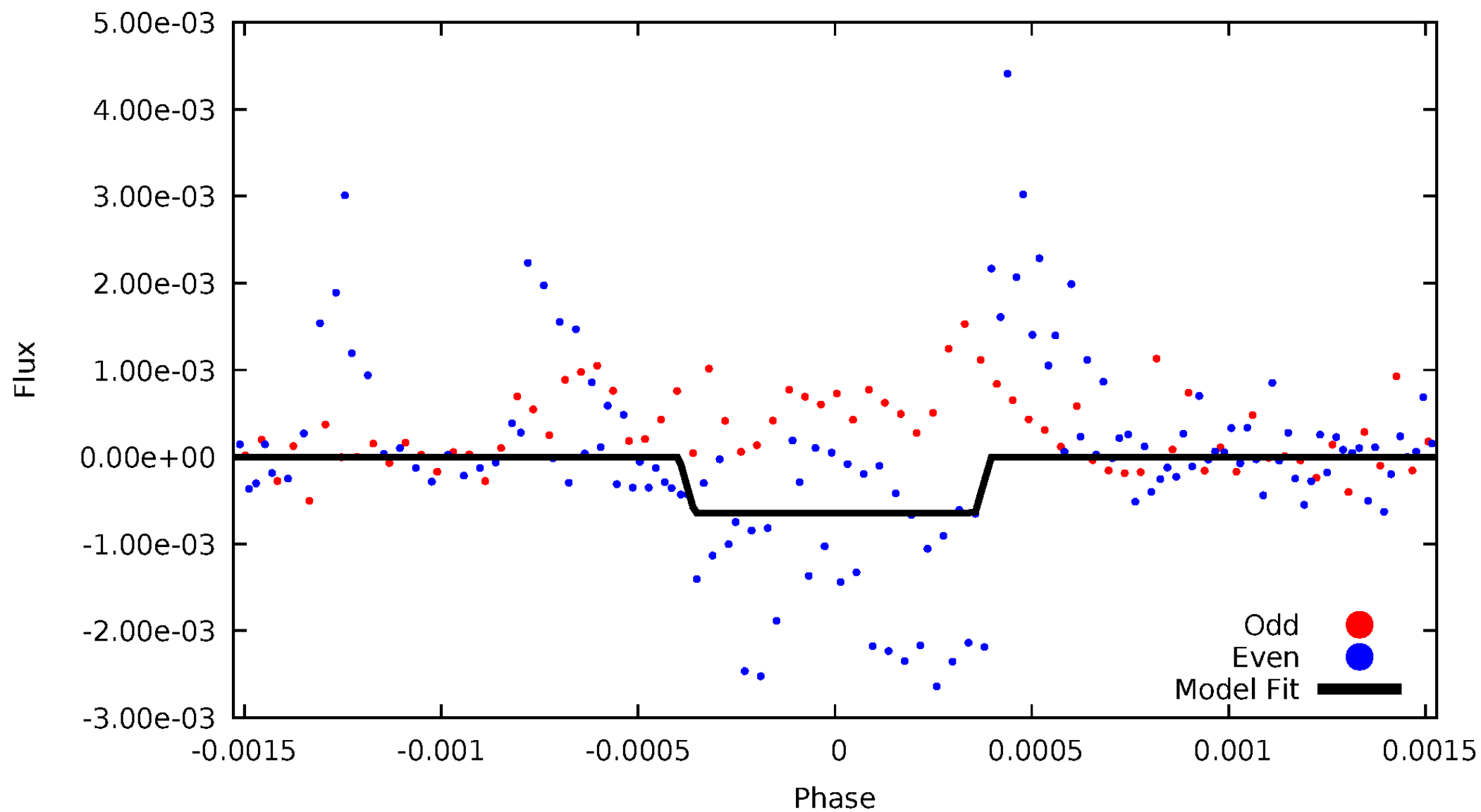
DV Odd/Even

TCE 006675714-06



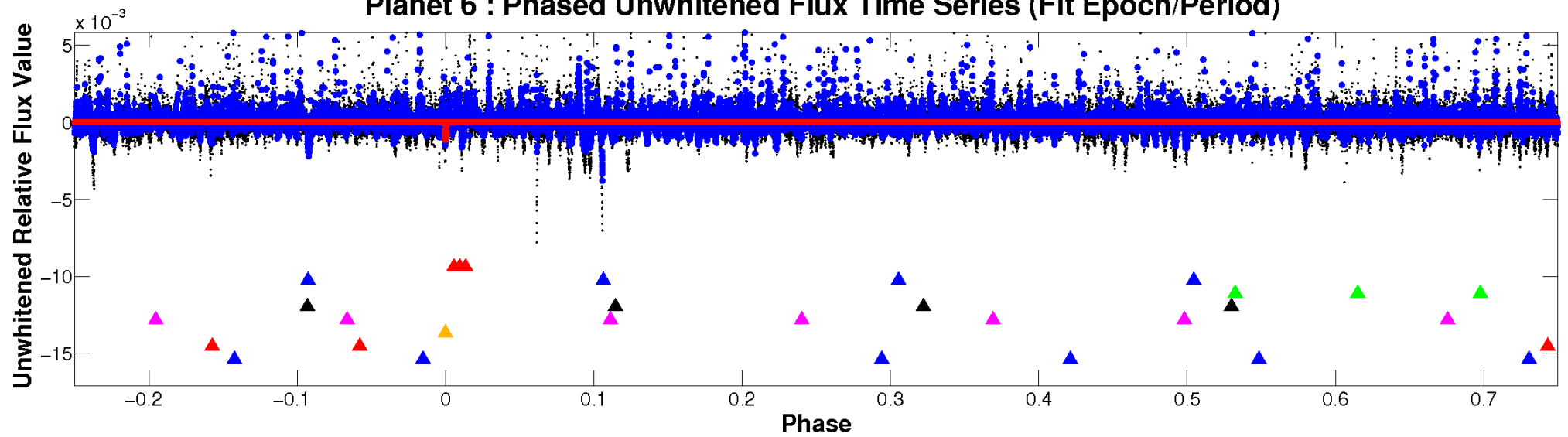
ALT Odd/Even

TCE 006675714-06

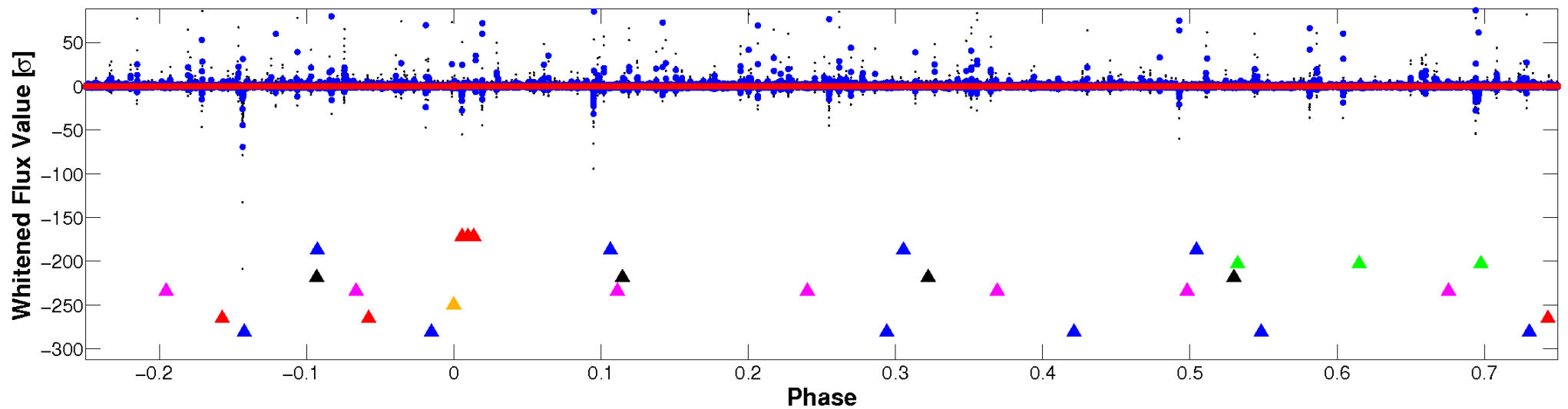


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

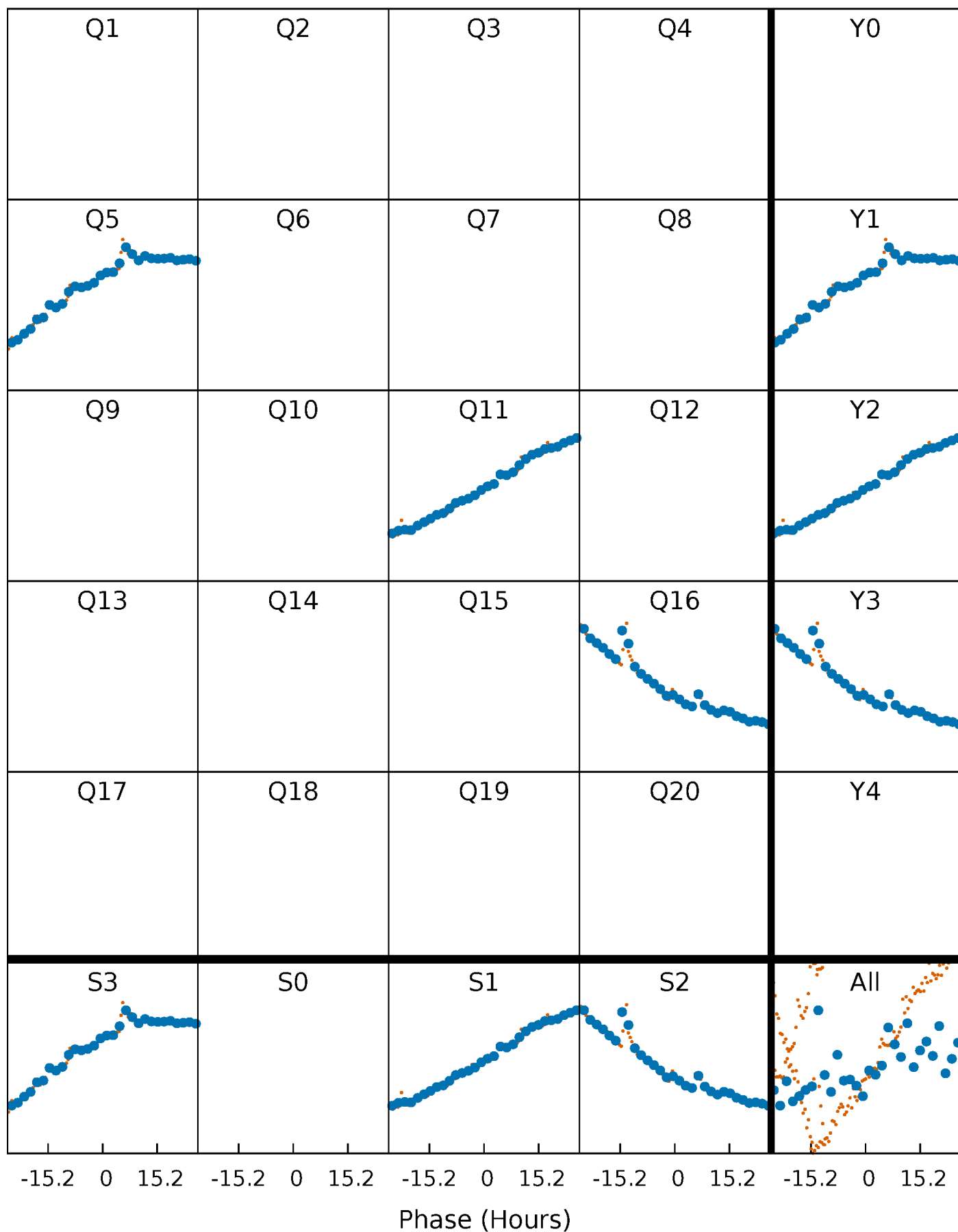


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



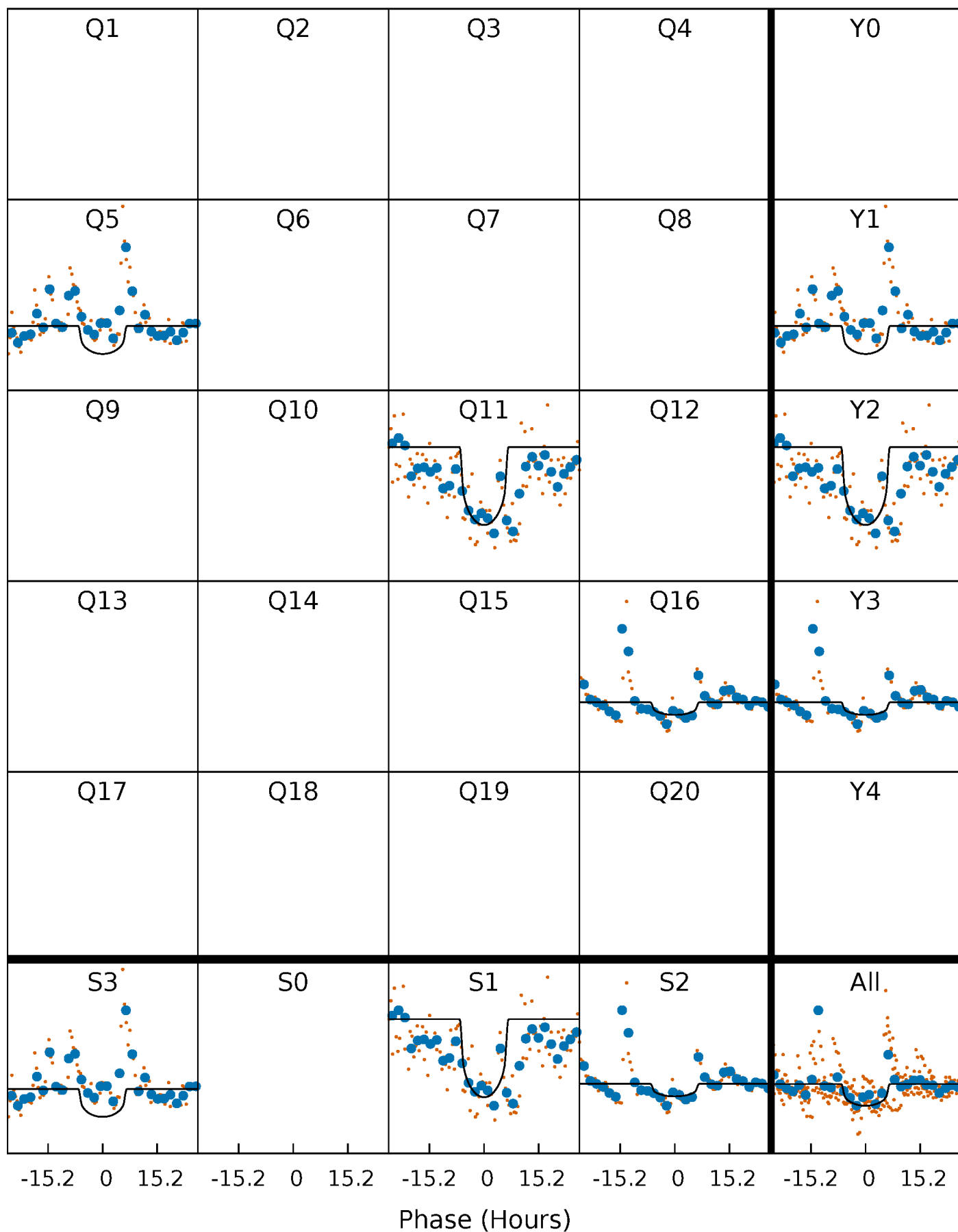
PDC Quarter-Phased Transit Curves

TCE 006675714-06 P=503.245560 Days $T_0=521.805215$ (BKJD)



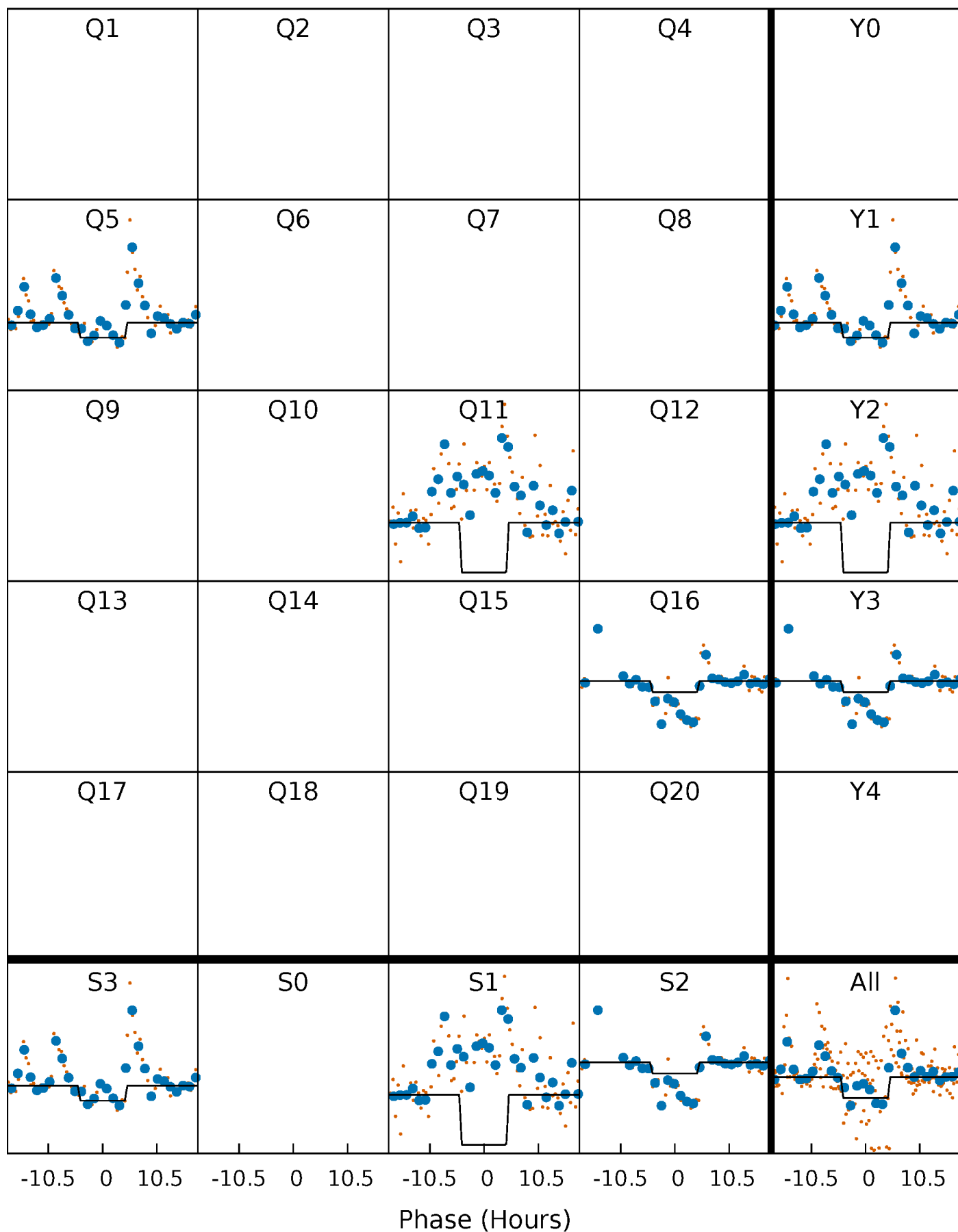
DV Quarter-Phased Transit Curves

TCE 006675714-06 $P=503.245560$ Days $T_0=521.805215$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

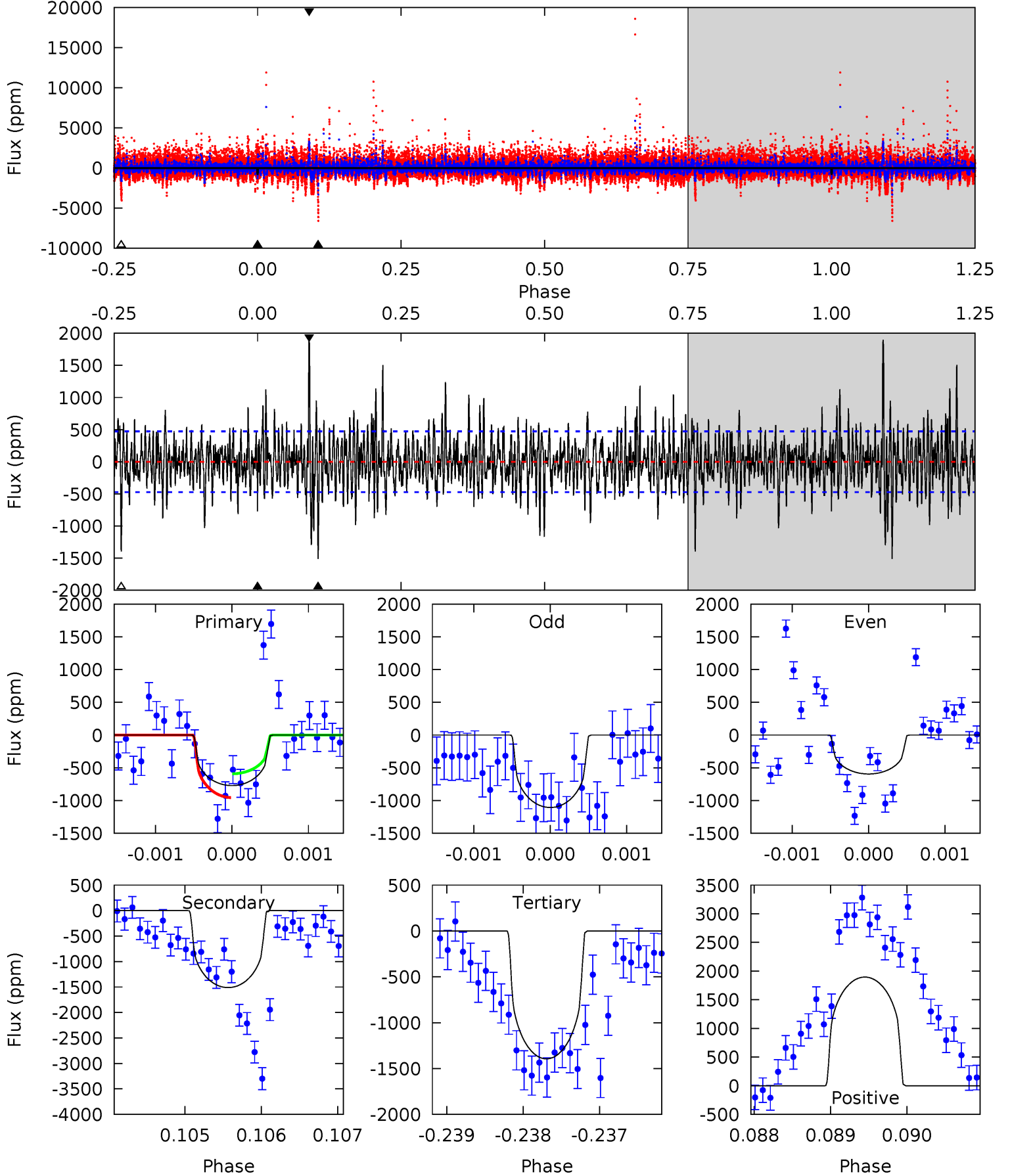
TCE 006675714-06 P=503.251338 Days $T_0=521.819980$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-06, P = 503.245560 Days, E = 18.559655 Days

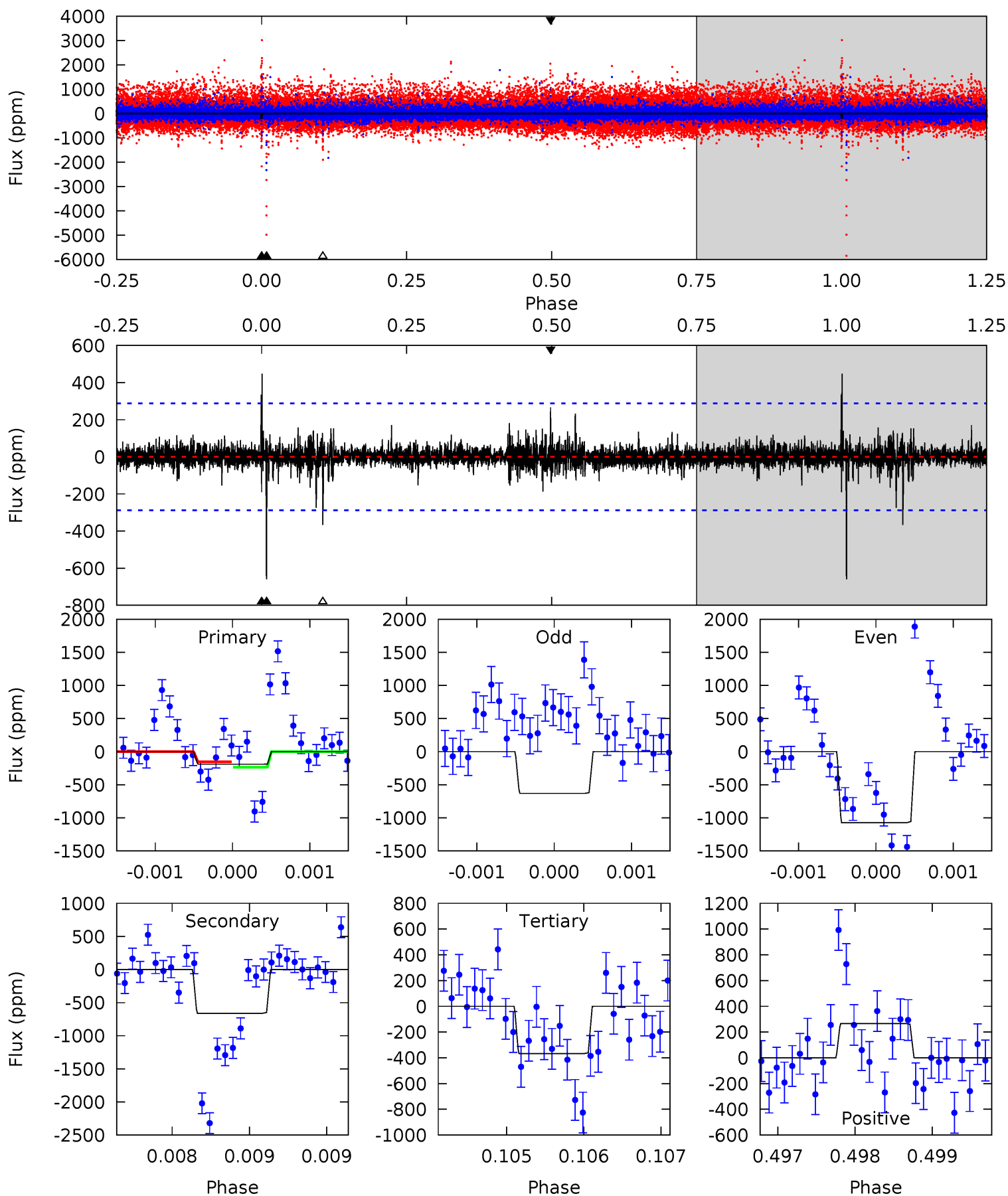
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.86	17.4	16.0	21.8	5.43	3.26	3.77	-7.15	-12.9	1.34	-4.42	1.52	0.66	0.56	2.11



Alt Model-Shift Uniqueness Test

006675714-06, P = 503.251338 Days, E = 18.568642 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.62	12.6	6.99	5.06	5.49	3.36	0.70	-3.37	-1.44	5.58	7.51	4.23	1.19	0.40	0.79



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1511 ± 87	$2.30^{+1.02}_{-0.86}$	202^{+8}_{-9}	4509^{+987}_{-575}	$185729^{+290661}_{-93972}$
Alt.	-660 ± 53	$1.86^{+0.83}_{-0.79}$	202^{+8}_{-9}	4205^{+1084}_{-513}	$124710^{+263718}_{-63761}$

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

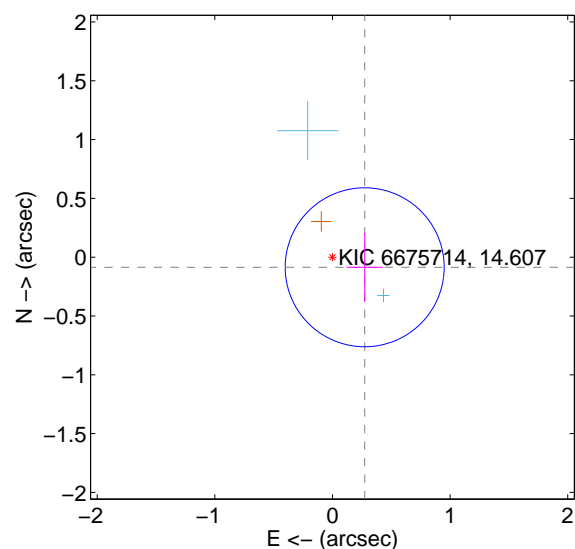
Supplemental centroid analysis for 006675714-06. Kepler magnitude: 14.61. Transit SNR 7.15

There are 2 quarters with good PRF difference image offsets

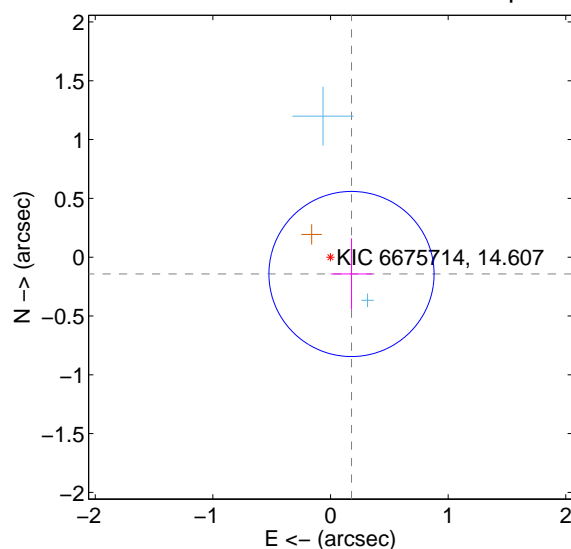
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.287 ± 0.225	1.27	-0.274 ± 0.155	-0.086 ± 0.294
PRF-fit source offset from KIC position	0.229 ± 0.234	0.98	-0.178 ± 0.176	-0.143 ± 0.303
photometric centroid source offset	0.33 ± 0.46	0.71	-0.24 ± 0.46	-0.23 ± 0.46

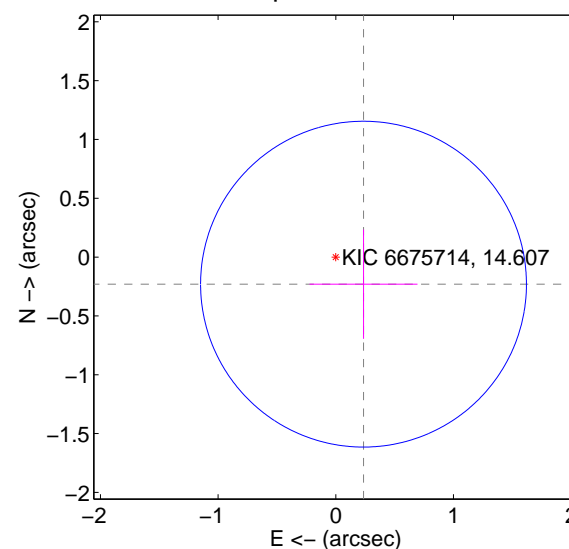
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

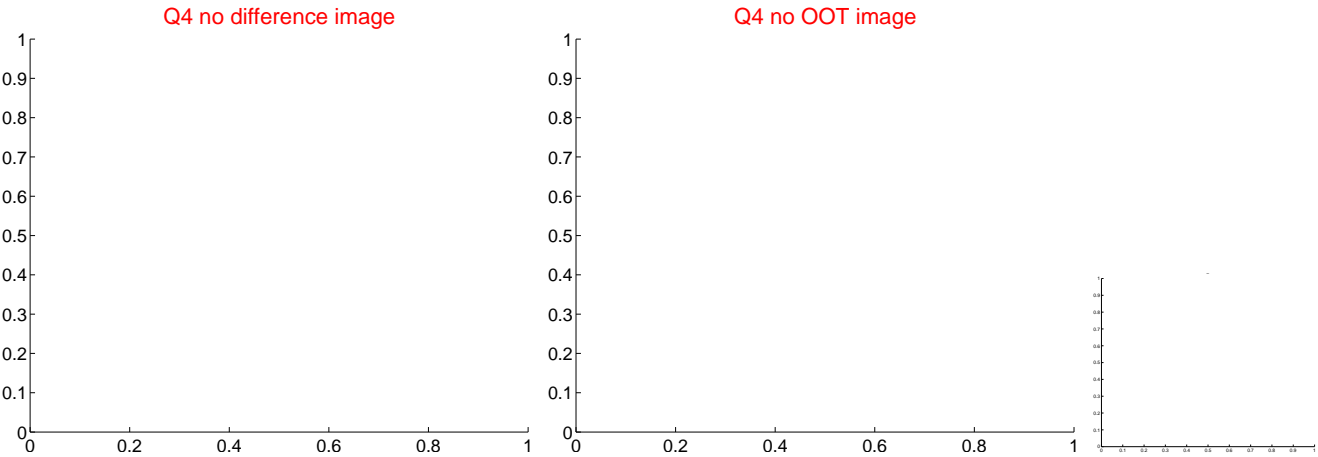
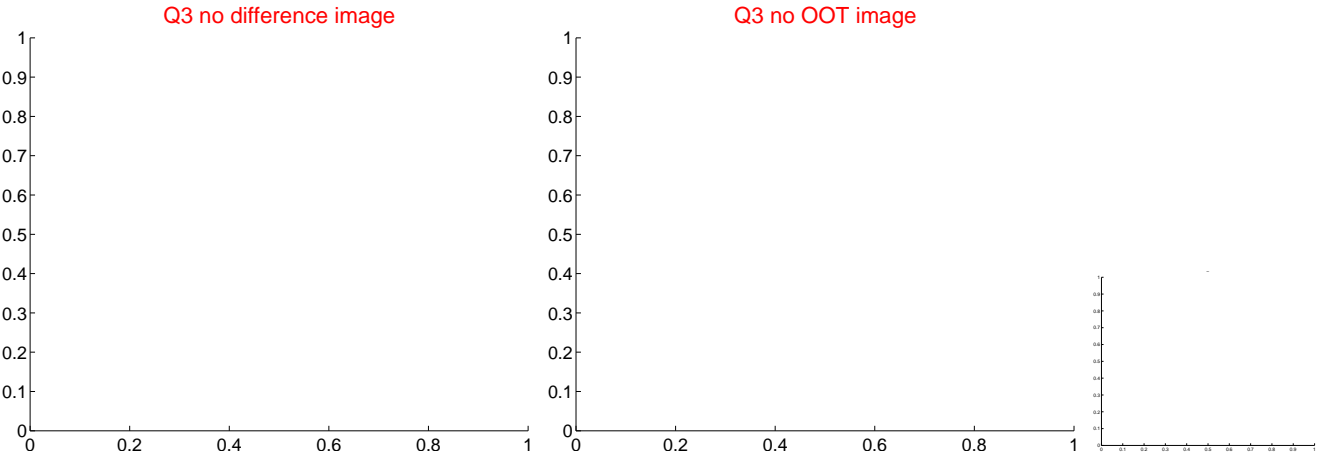
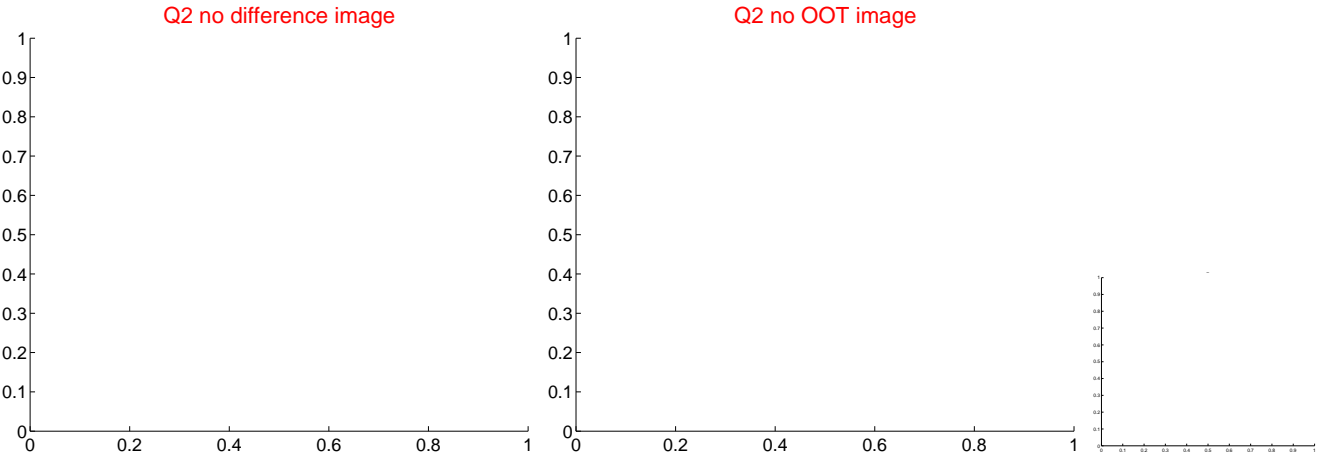
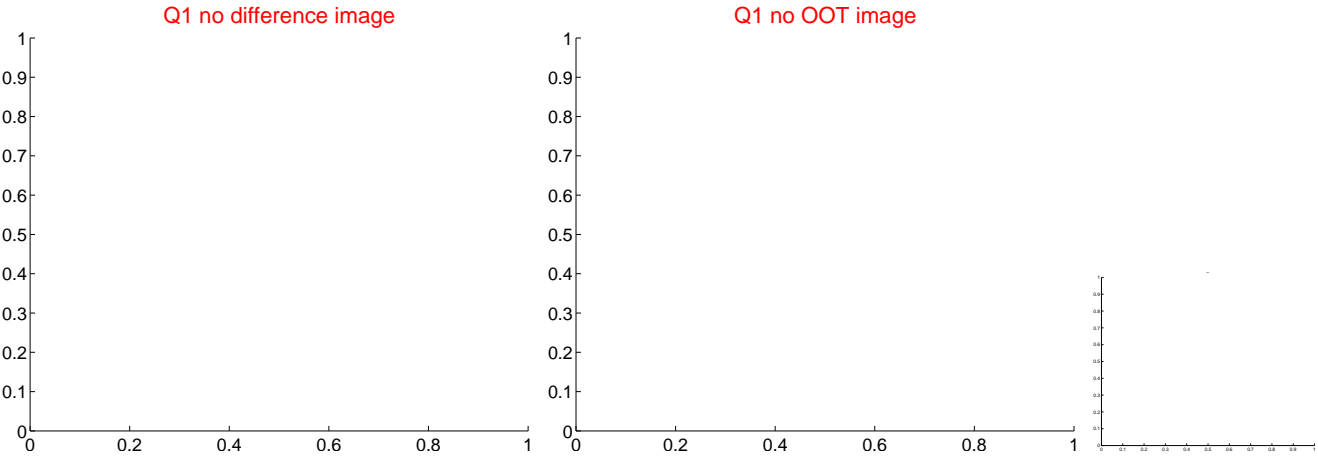


offset from photometric centroids

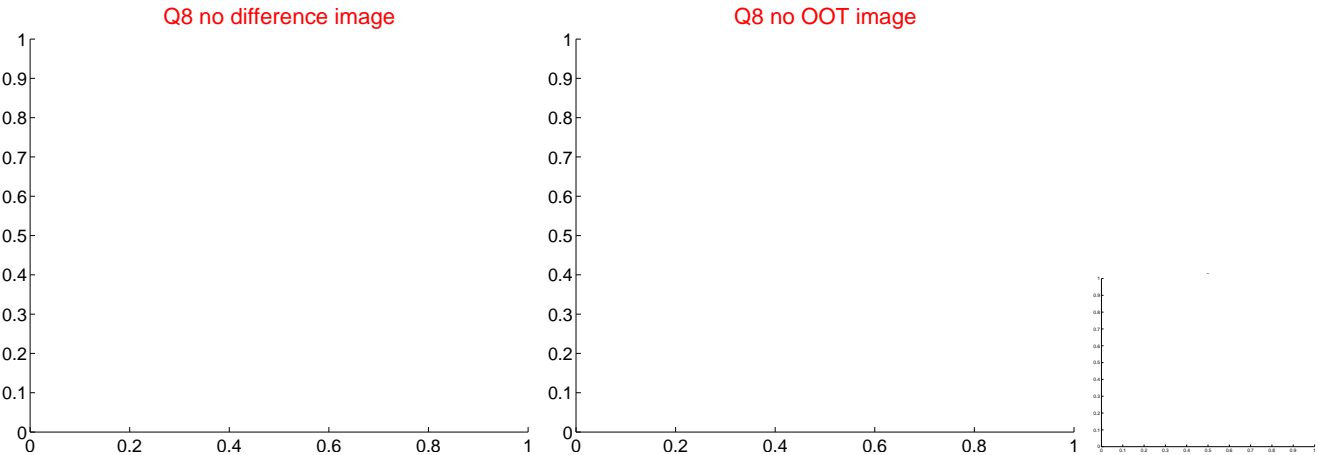
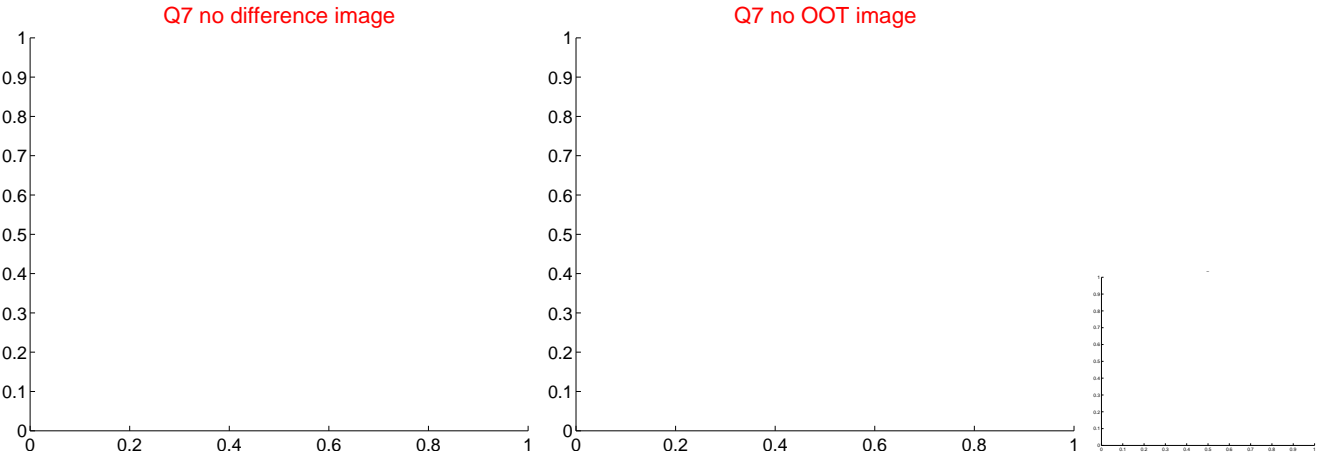
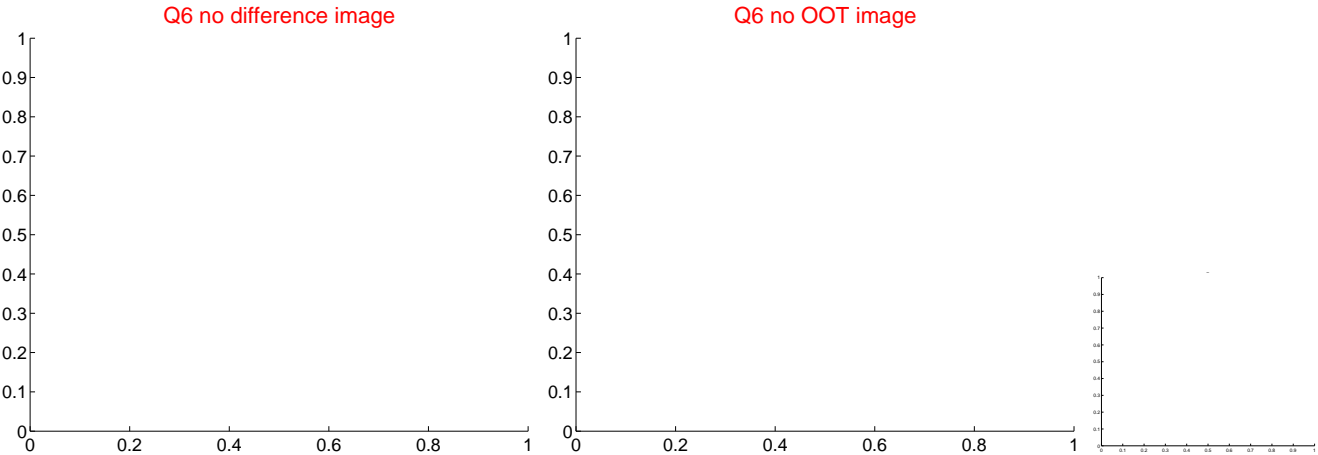
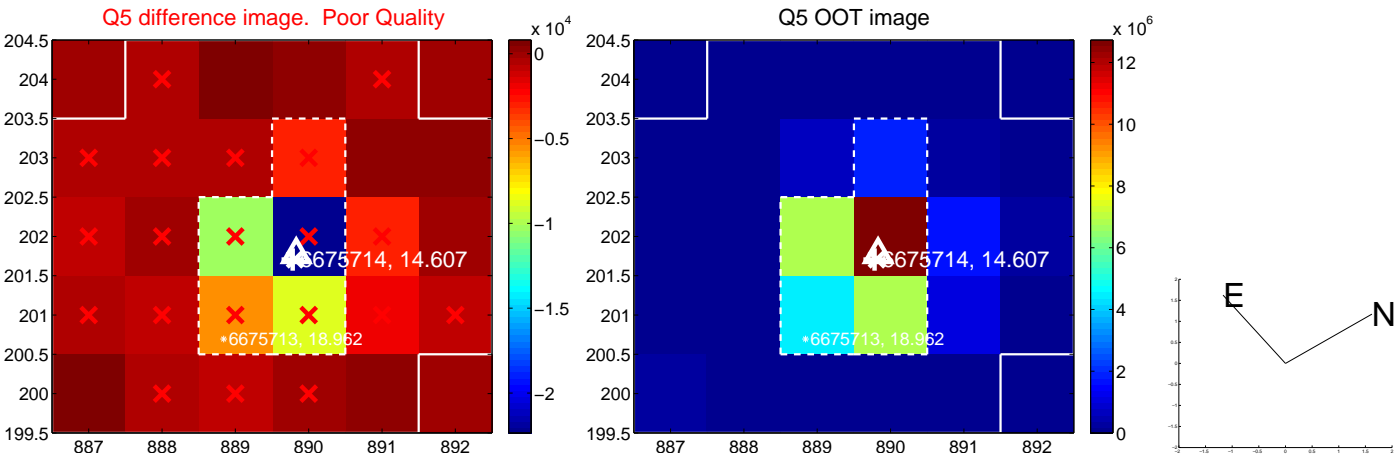


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

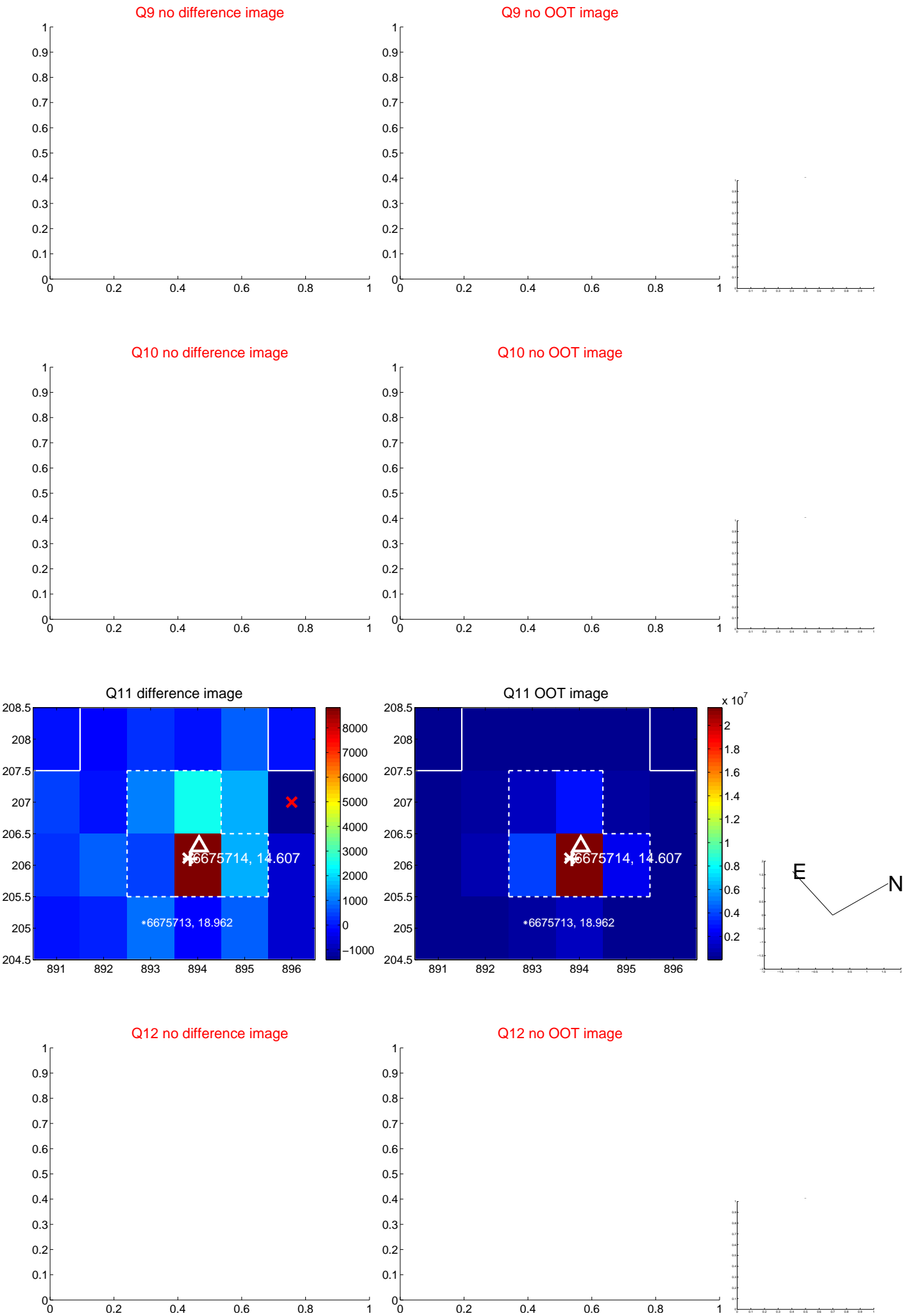
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



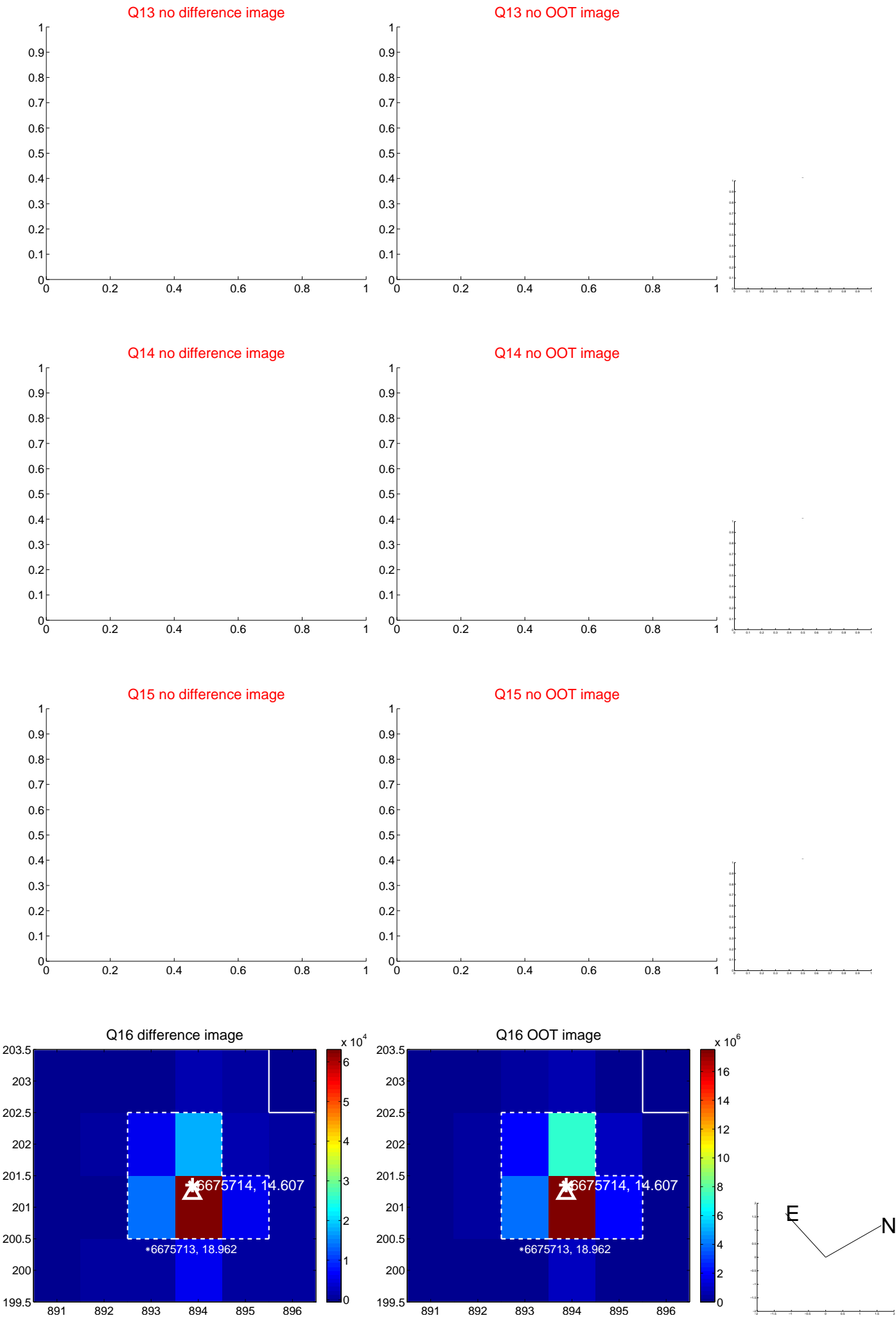
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



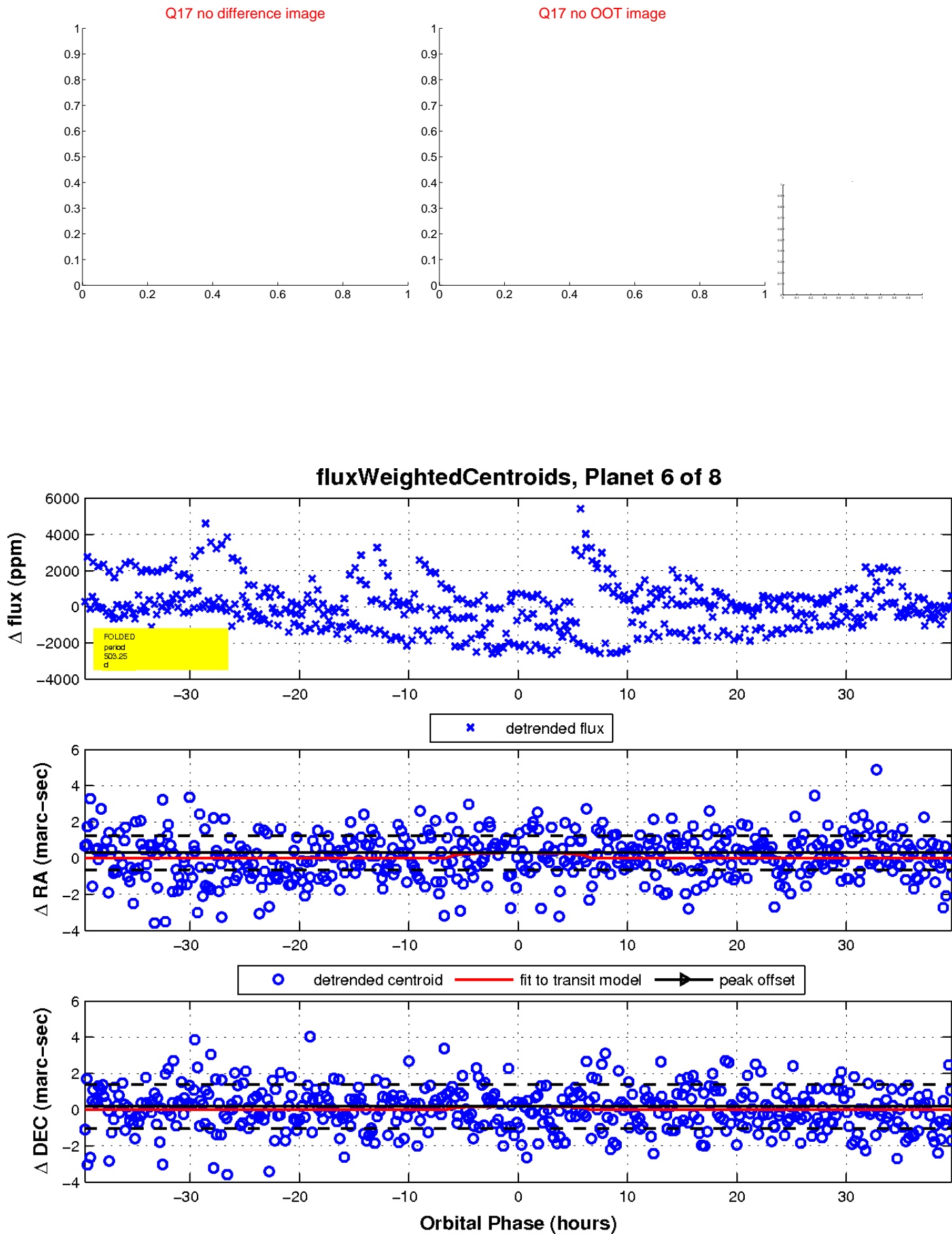
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

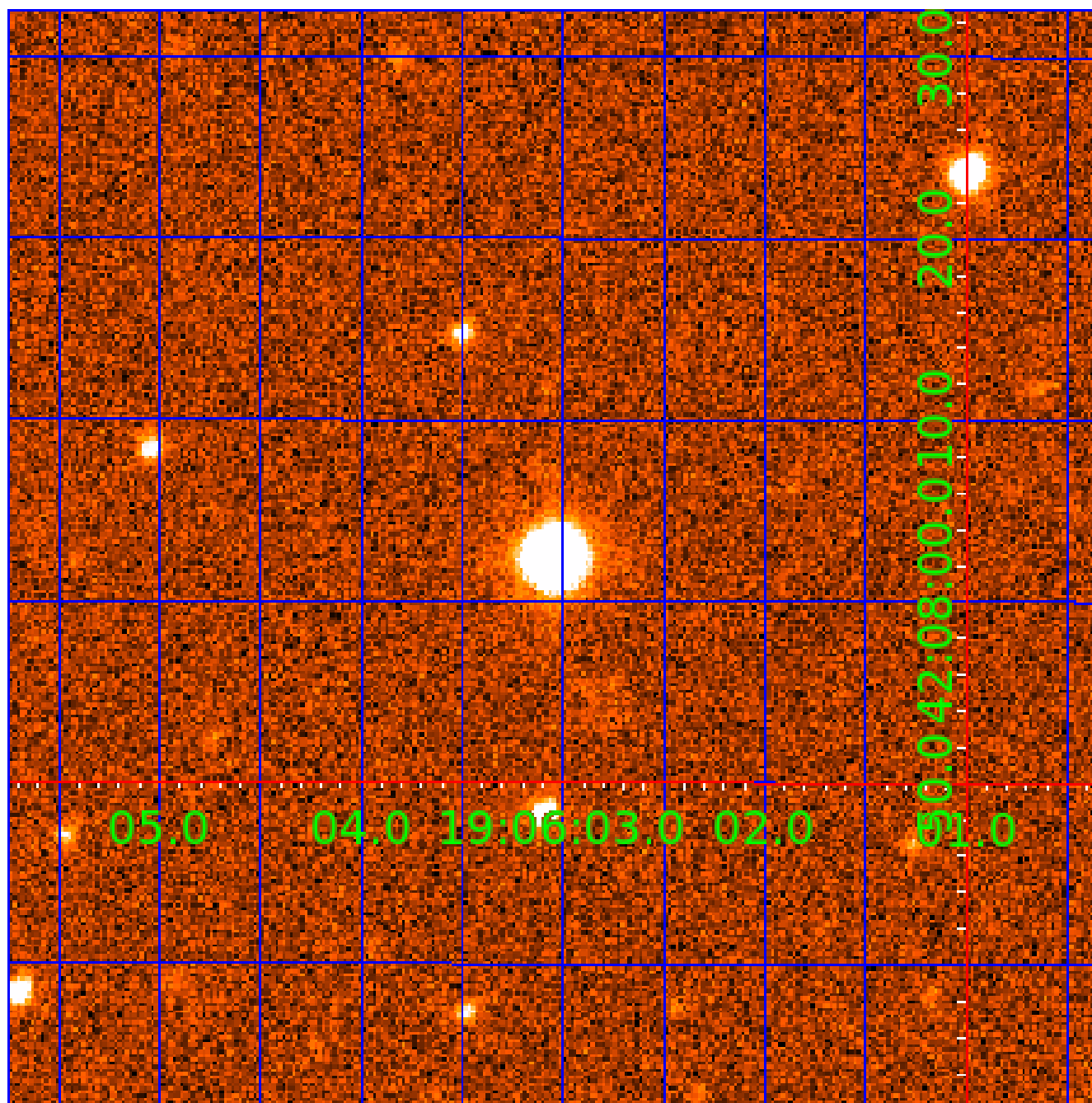


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
006675714-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

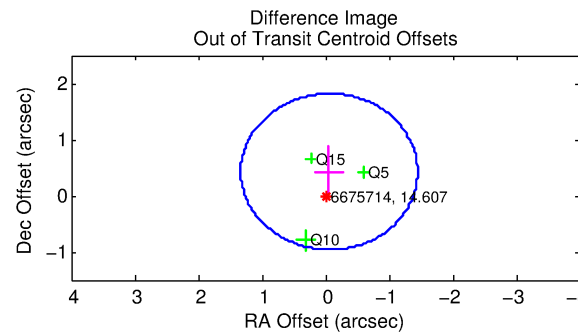
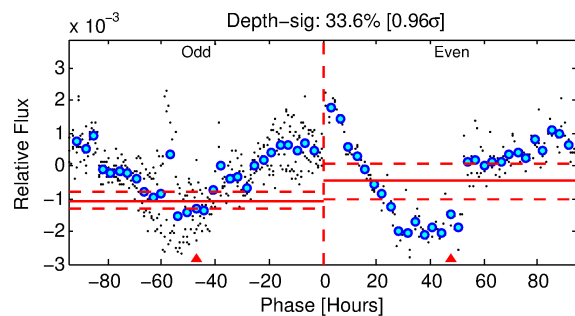
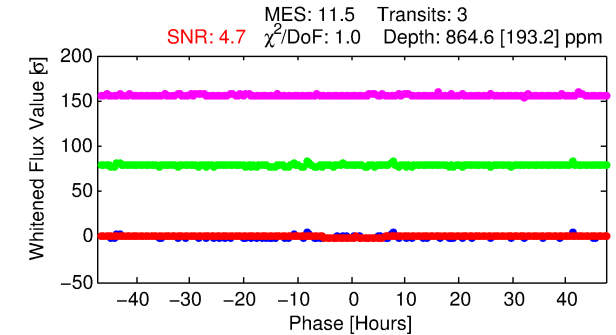
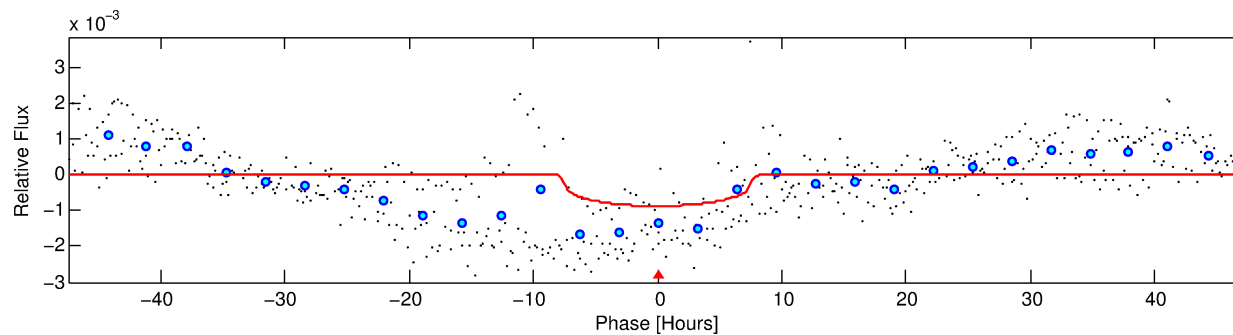
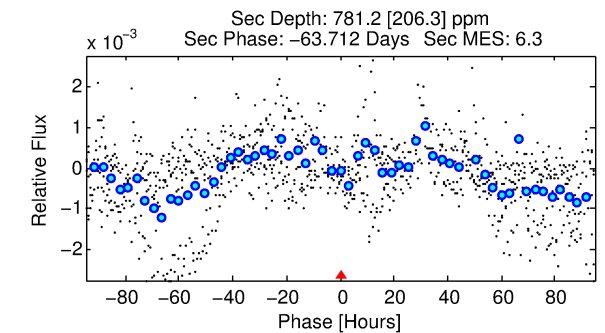
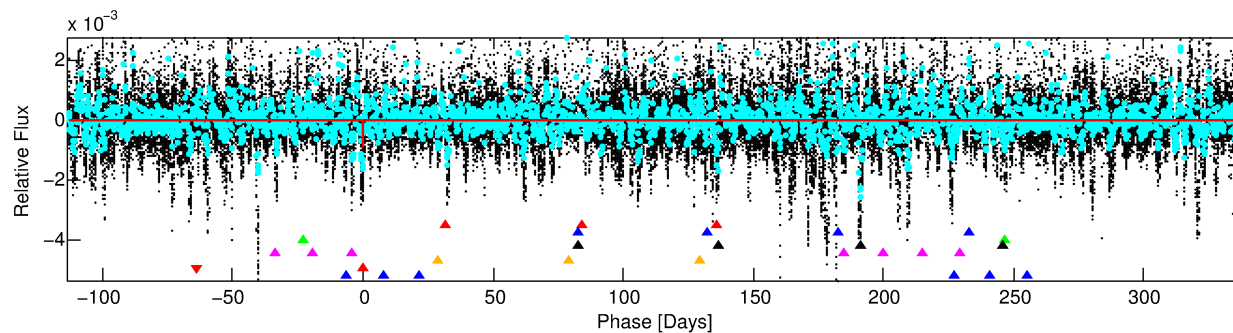
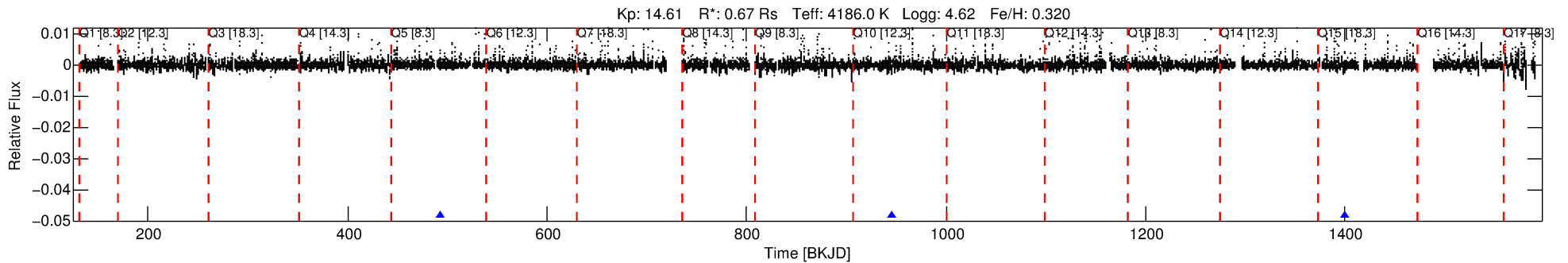
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-07

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 7 of 8 Period: 453.169 d



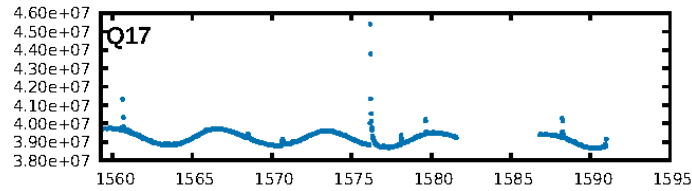
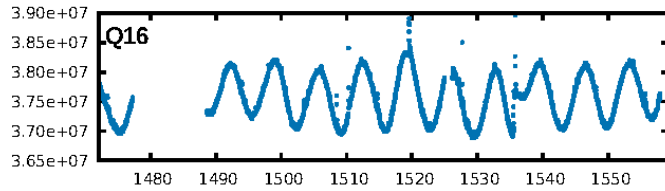
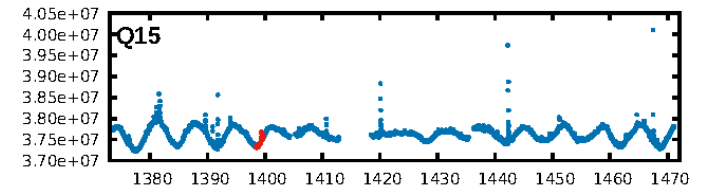
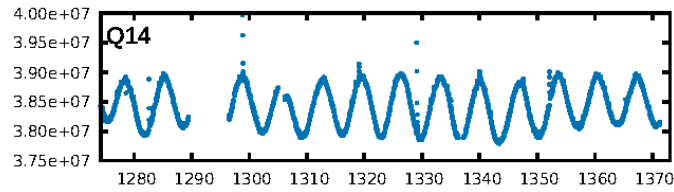
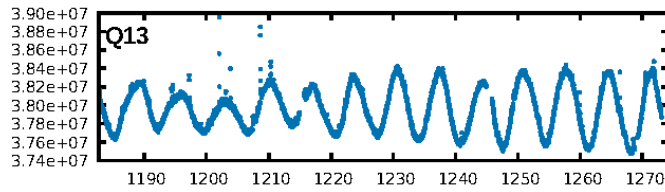
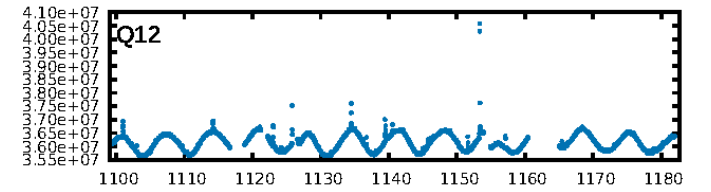
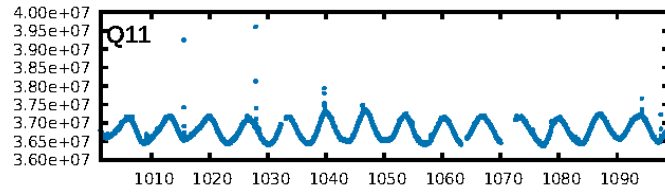
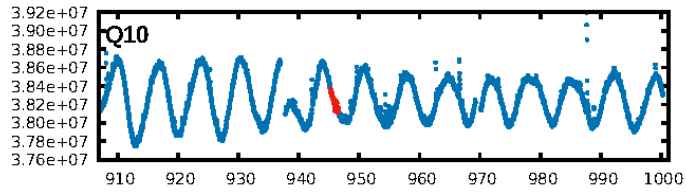
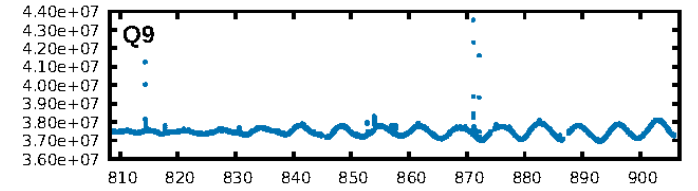
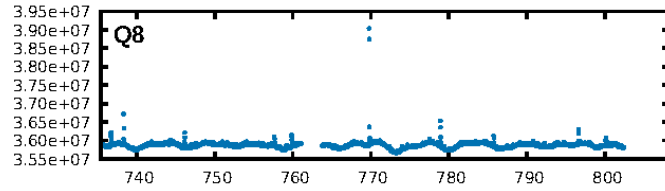
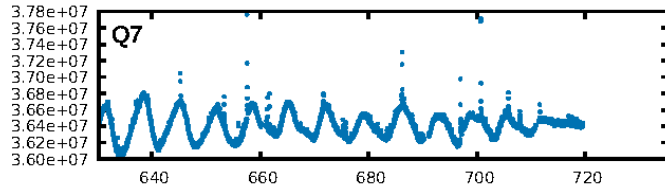
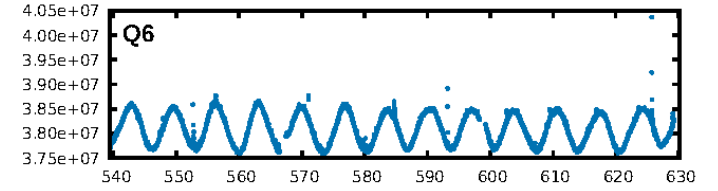
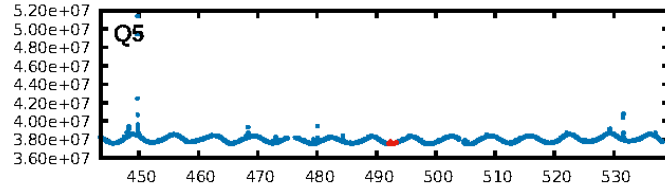
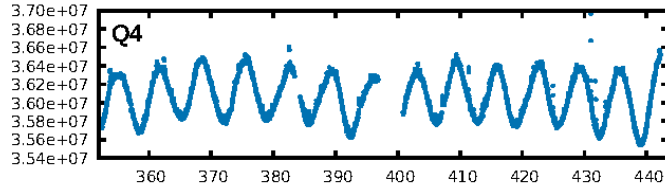
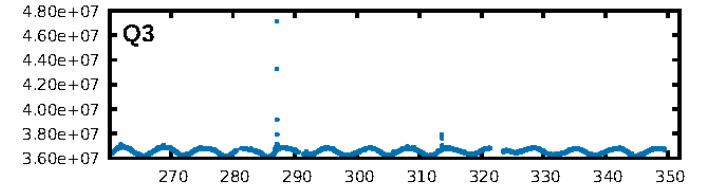
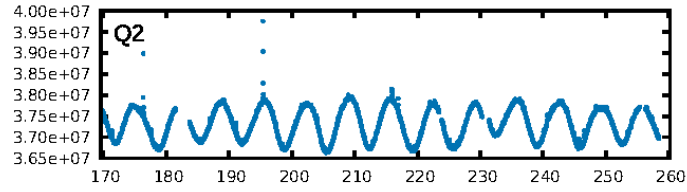
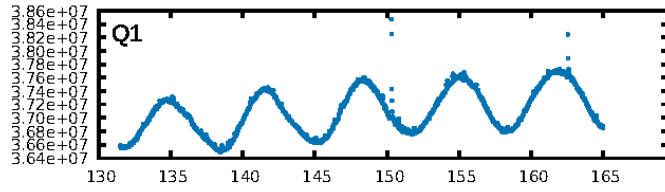
DV Fit Results:

Period = 453.16932 [0.01188] d
Epoch = 492.7260 [0.0152] BKJD
Rp/R* = 0.0277 [0.0104]
a/R* = 183.11 [195.92]
b = 0.60 [1.16]
Seff = 0.12 [0.02]
Teq = 150 [7] K
Rp = 2.03 [0.78] Re
a = 1.0165 [0.0686] AU
Ag = 107924.72 [86666.24] [1.25σ]
Teffp = 4208 [856] K [4.74σ]

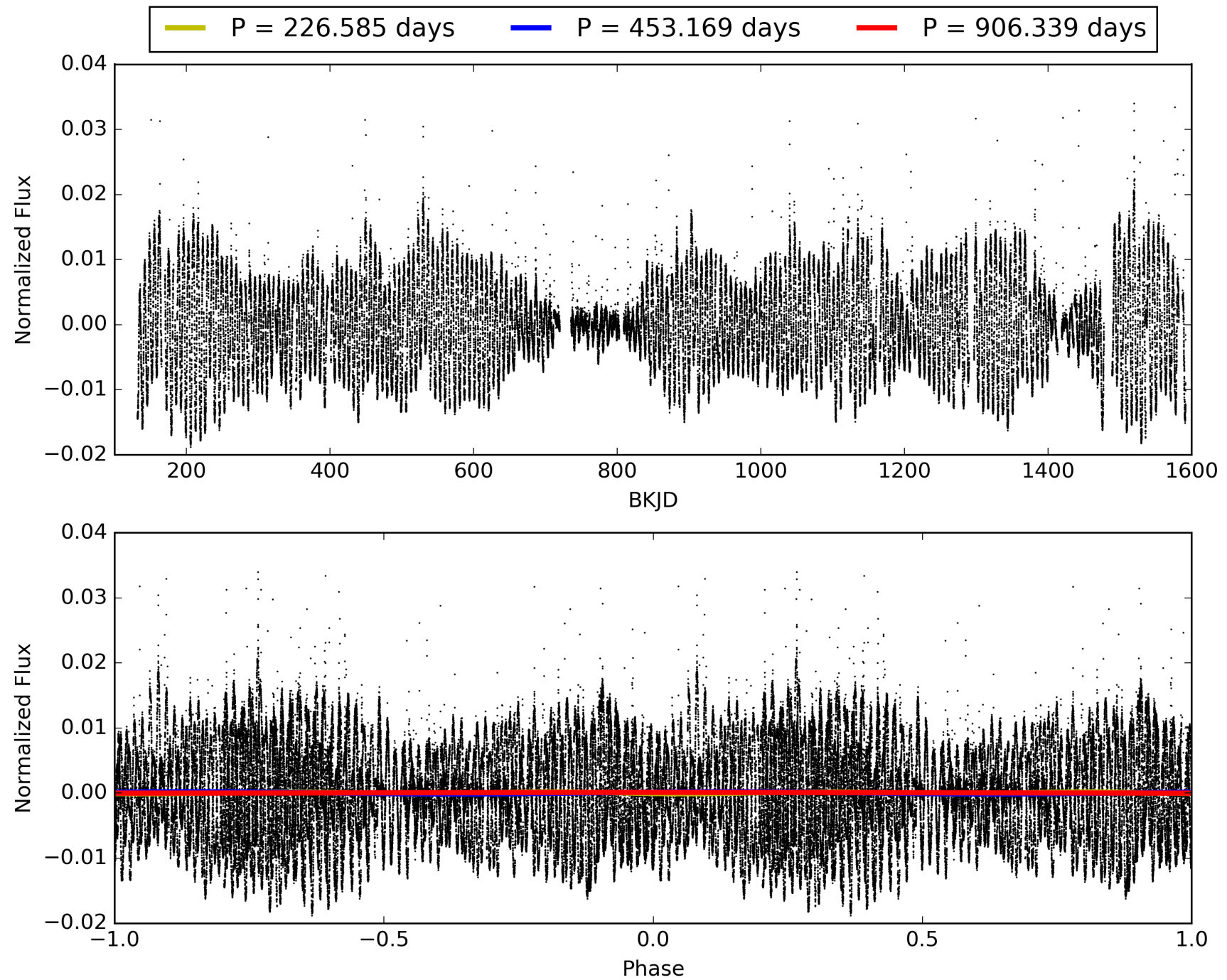
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [67.82σ]
LongPeriod-sig: 100.0% [58.26σ]
ModelChiSquare2-sig: 39.1%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.312
Centroid-sig: 38.5%
Centroid-so: 0.511 arcsec [0.89σ]
OotOffset-rm: 0.431 arcsec [0.93σ]
KicOffset-rm: 0.443 arcsec [1.00σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 006675714-07, PDC Light Curves

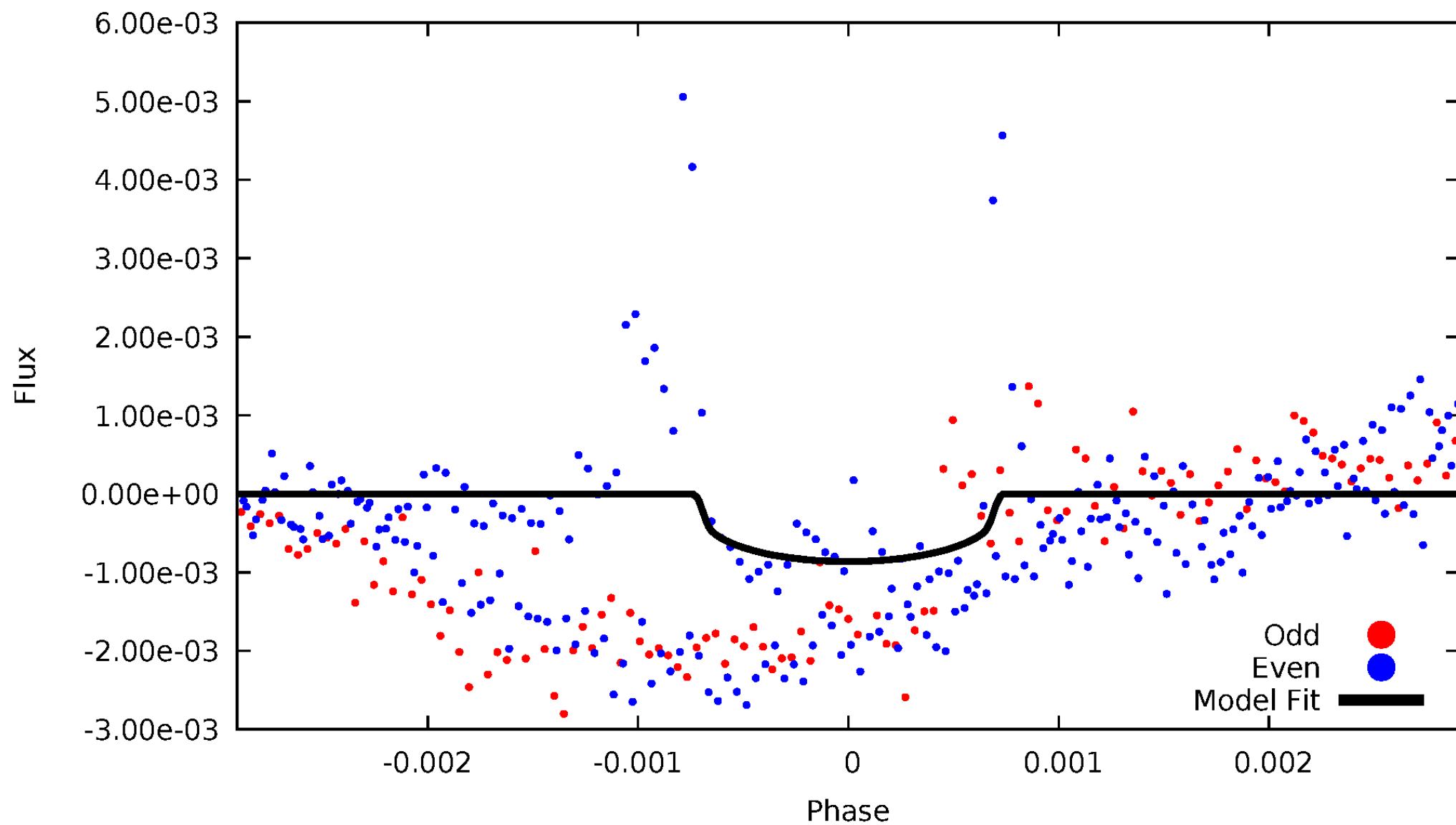


TCE 006675714-07



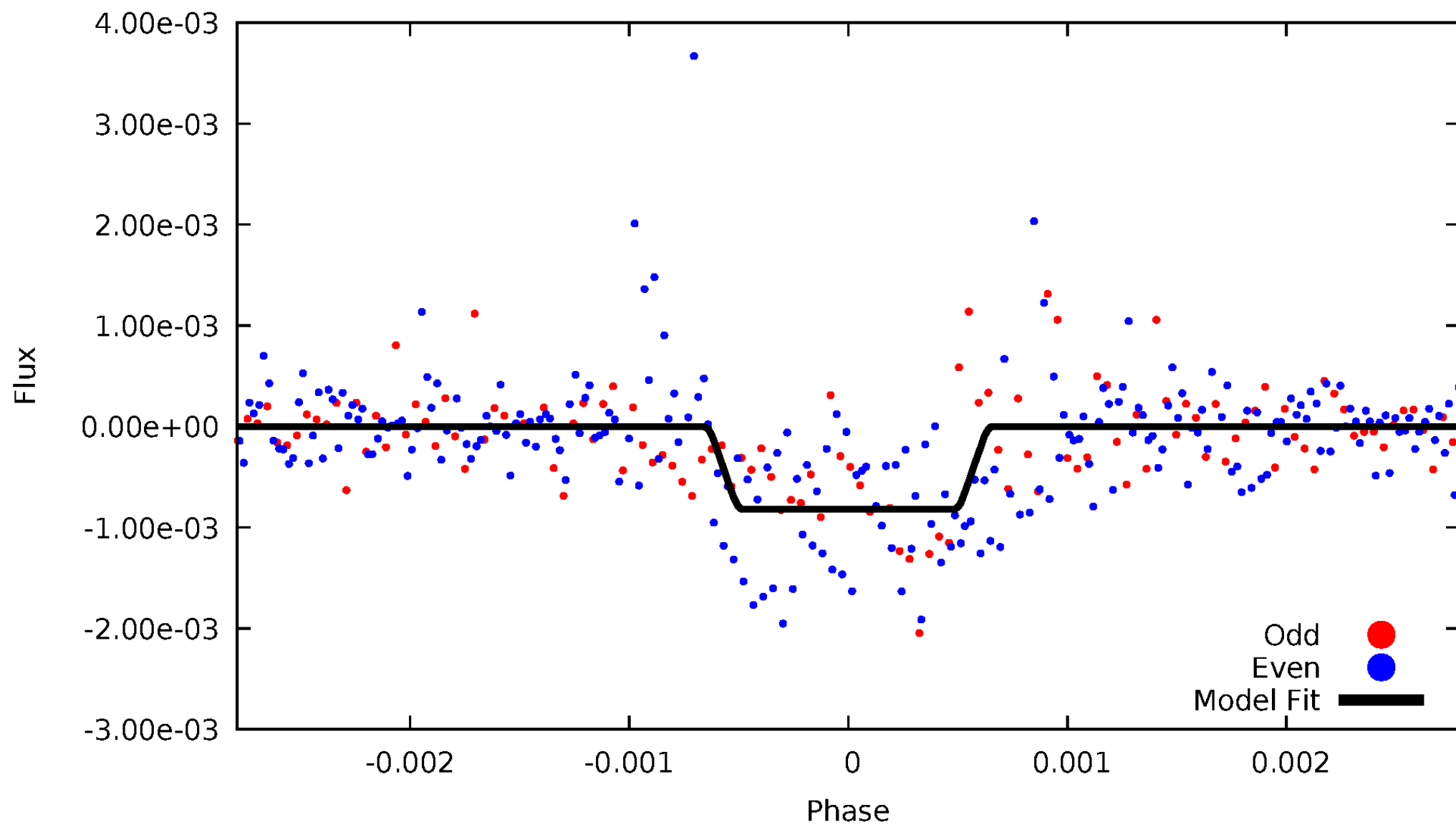
DV Odd/Even

TCE 006675714-07



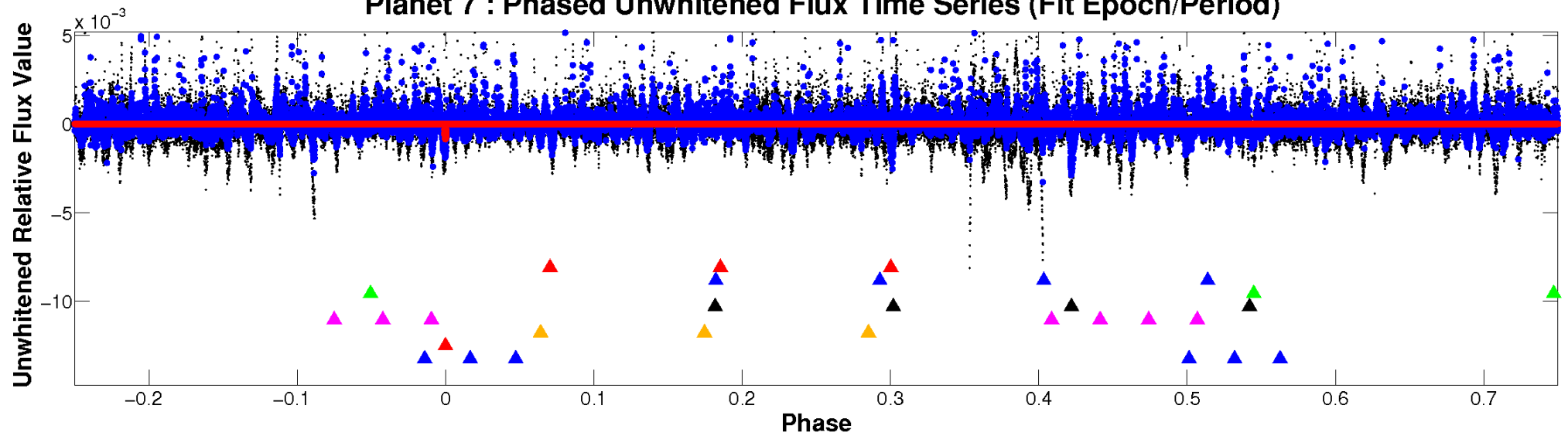
ALT Odd/Even

TCE 006675714-07

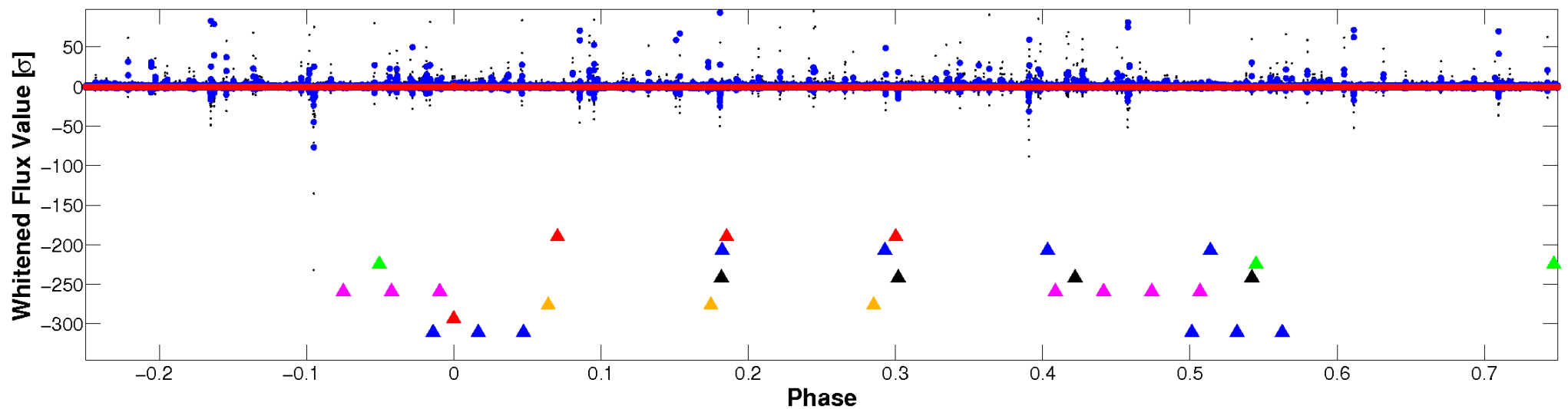


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

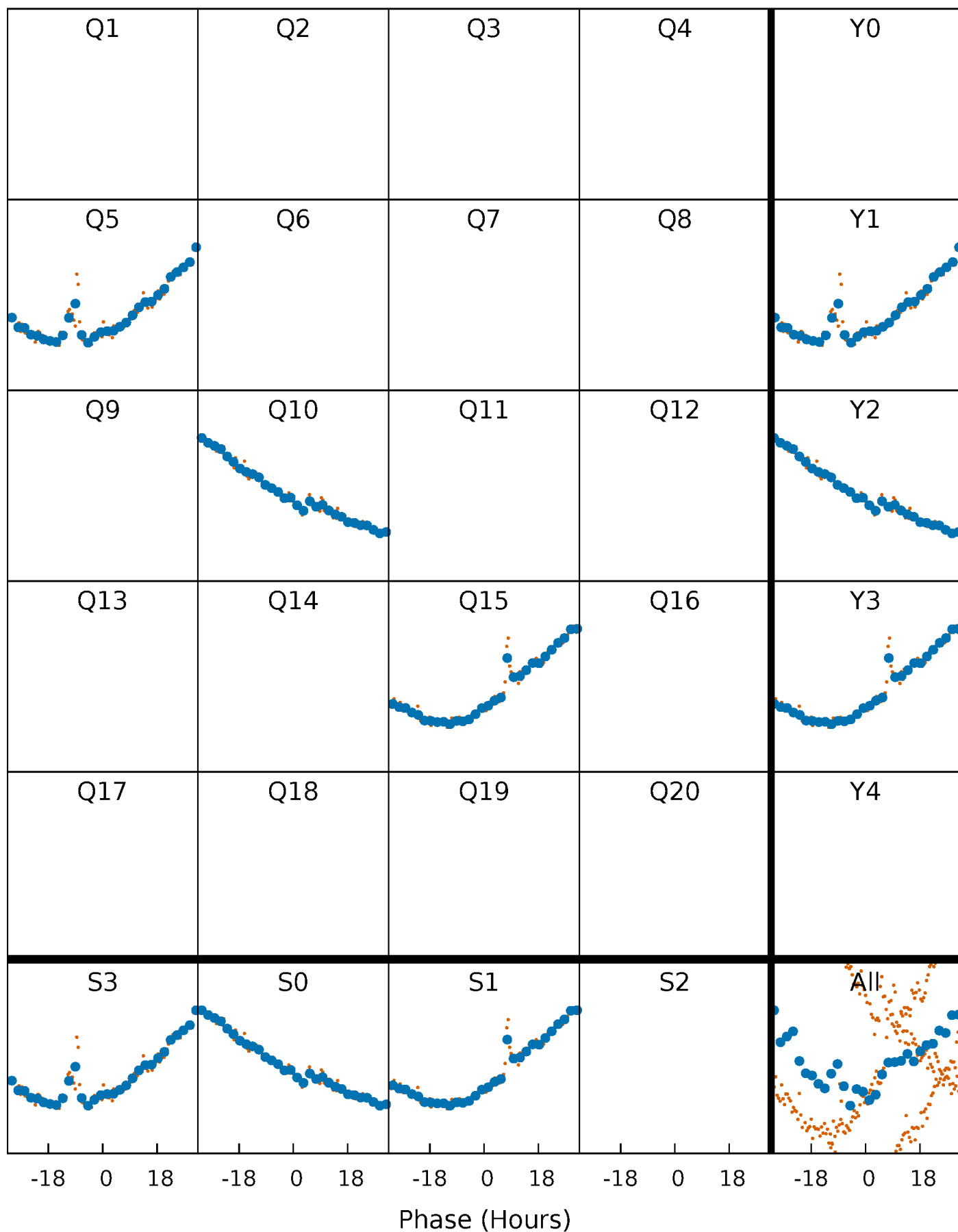


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



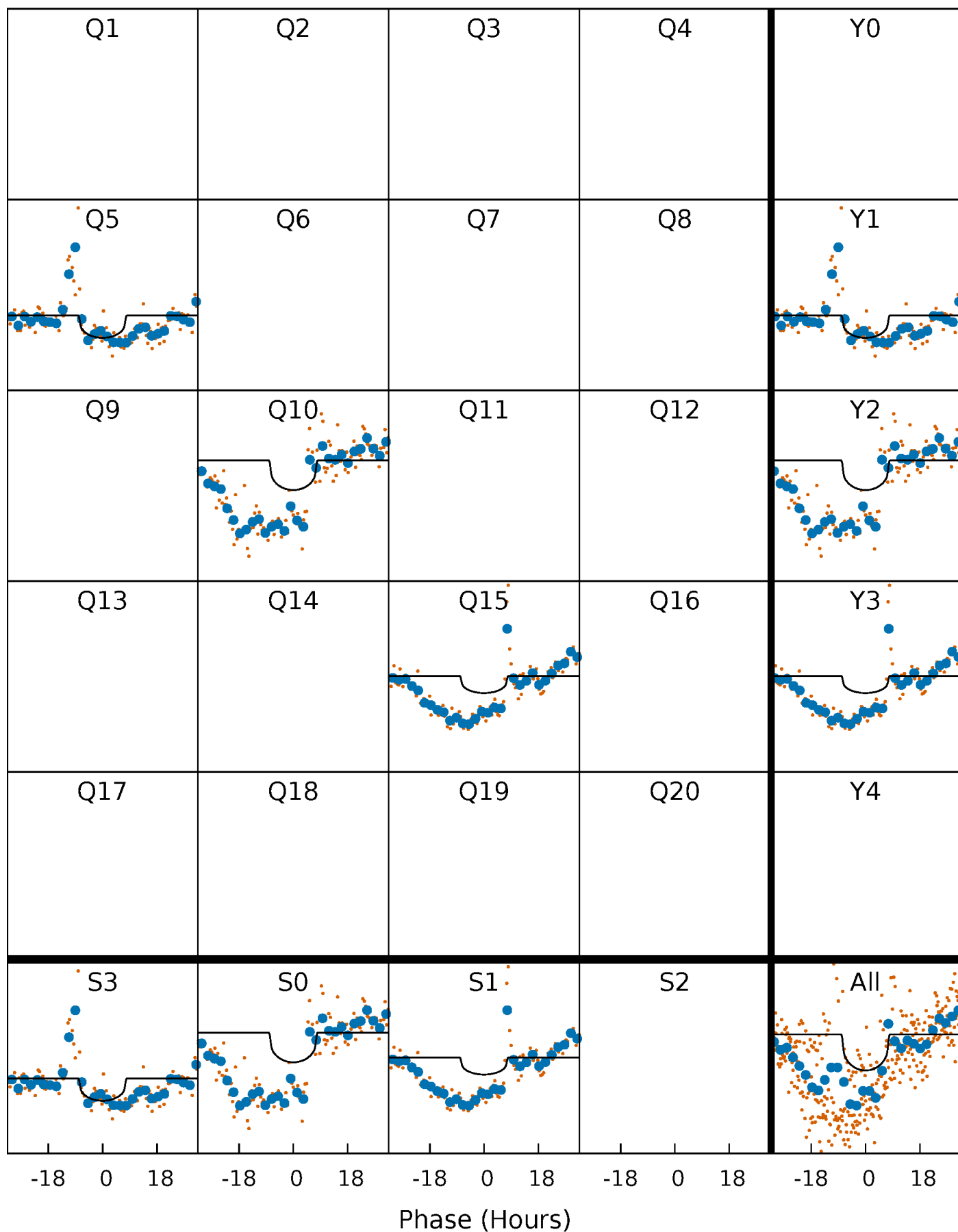
PDC Quarter-Phased Transit Curves

TCE 006675714-07 P=453.169315 Days $T_0=492.726000$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006675714-07 $P=453.169315$ Days $T_0=492.726000$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

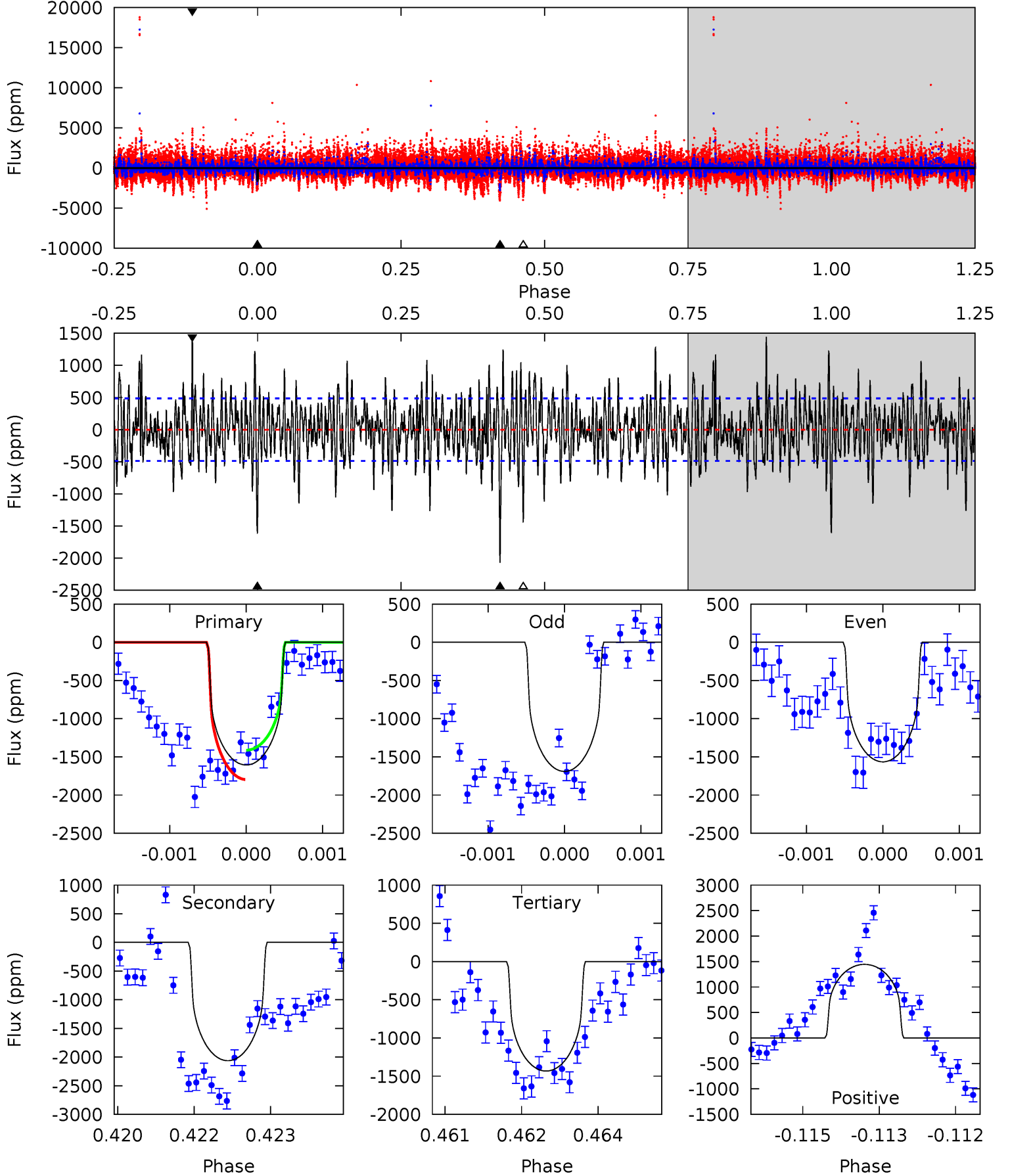
TCE 006675714-07 P=453.161871 Days $T_0=492.709337$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-07, P = 453.169315 Days, E = 39.556685 Days

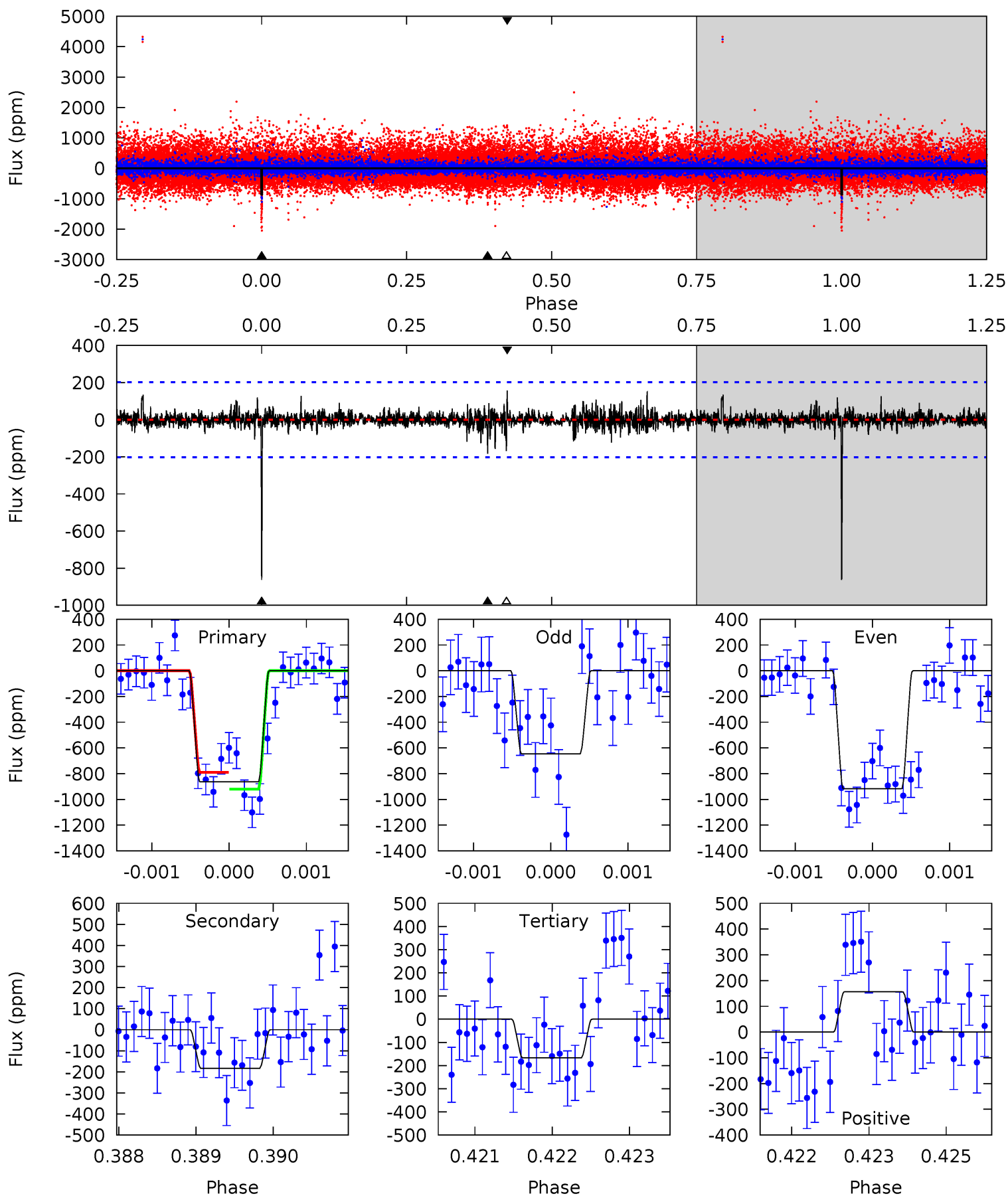
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.7	22.8	15.8	16.0	5.38	3.18	4.21	1.92	1.79	6.96	6.83	0.36	0.93	0.41	2.13



Alt Model-Shift Uniqueness Test

006675714-07, P = 453.161871 Days, E = 39.547466 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.1	4.90	4.47	4.18	5.41	3.22	0.71	18.6	18.9	0.44	0.73	3.10	1.29	0.15	1.75



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-2063 ± 91	$2.04^{+0.71}_{-0.81}$	209^{+8}_{-9}	5086^{+1298}_{-595}	$285953^{+481025}_{-132721}$
Alt.	-183 ± 37	$2.08^{+0.82}_{-0.74}$	208^{+9}_{-9}	3267^{+521}_{-336}	24066^{+38641}_{-12122}

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

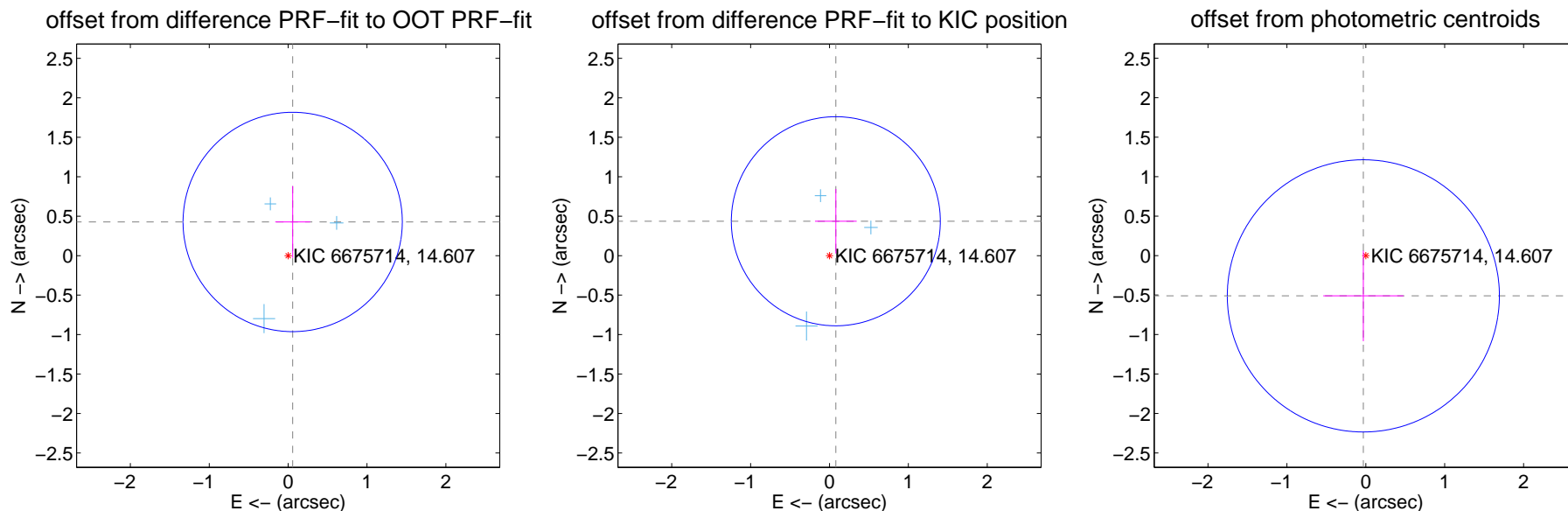
DV Centroid Data

Supplemental centroid analysis for 006675714-07. Kepler magnitude: 14.61. Transit SNR 4.73

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.431 ± 0.463	0.93	-0.058 ± 0.221	0.427 ± 0.455
PRF-fit source offset from KIC position	0.443 ± 0.441	1.00	-0.080 ± 0.264	0.436 ± 0.409
photometric centroid source offset	0.51 ± 0.57	0.89	0.03 ± 0.51	-0.51 ± 0.57

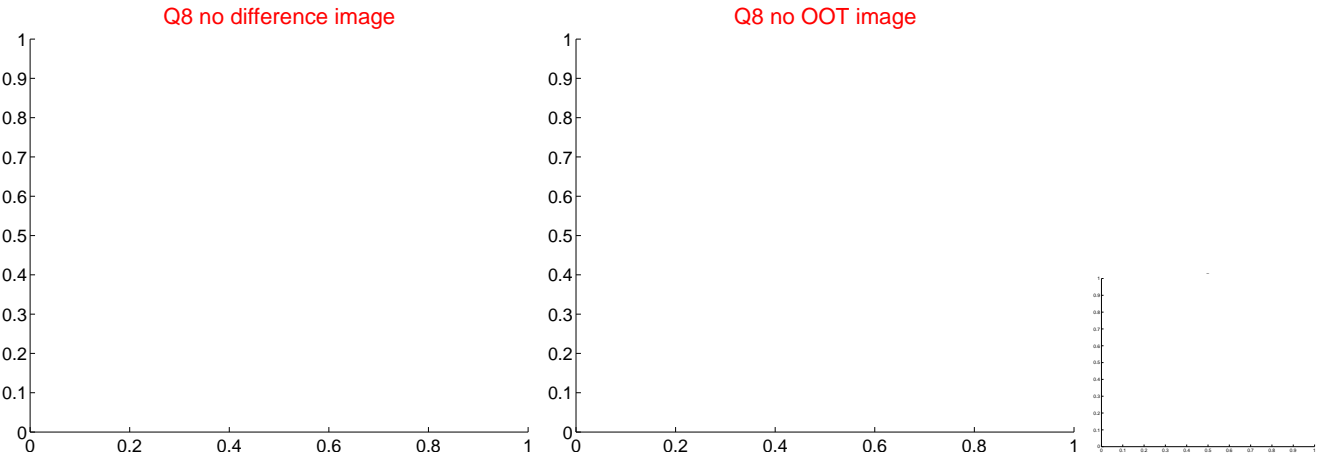
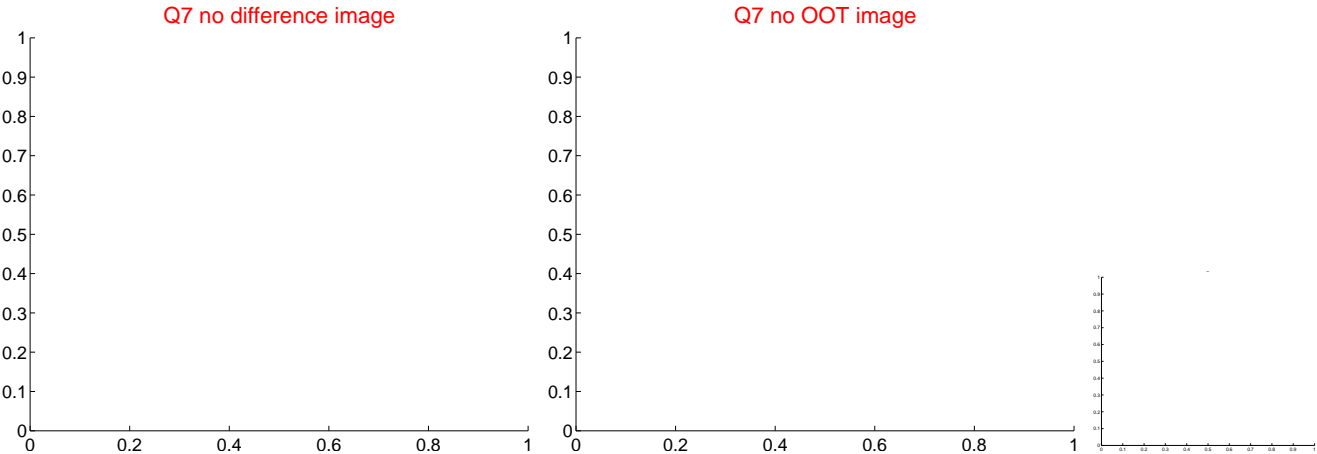
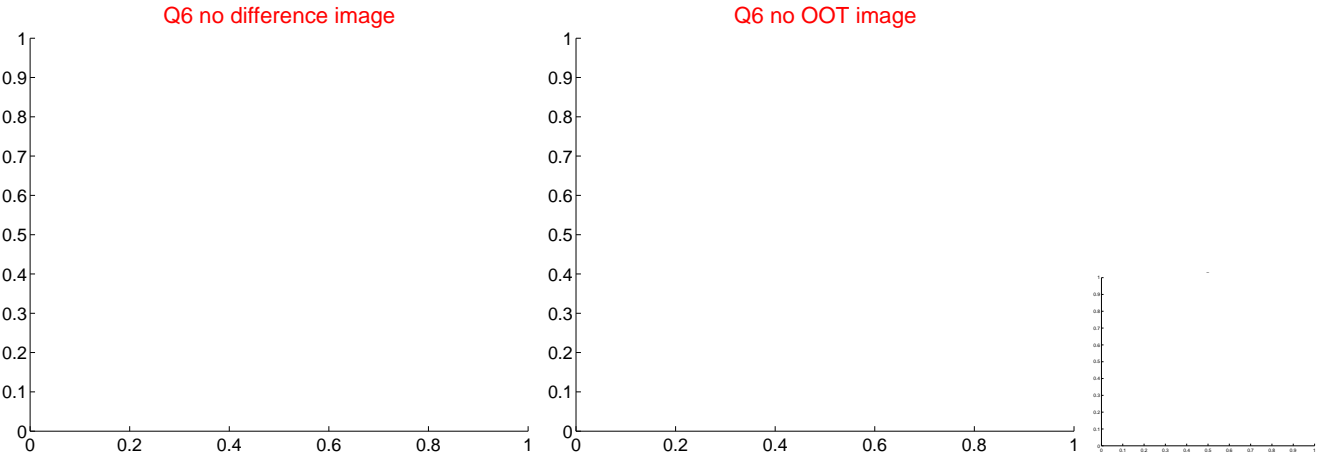
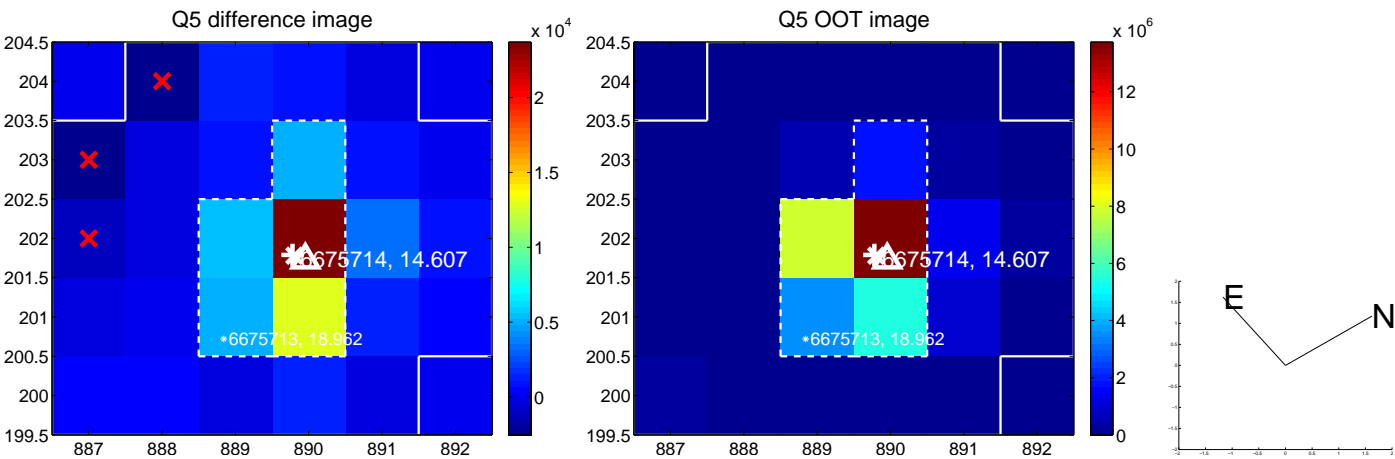


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

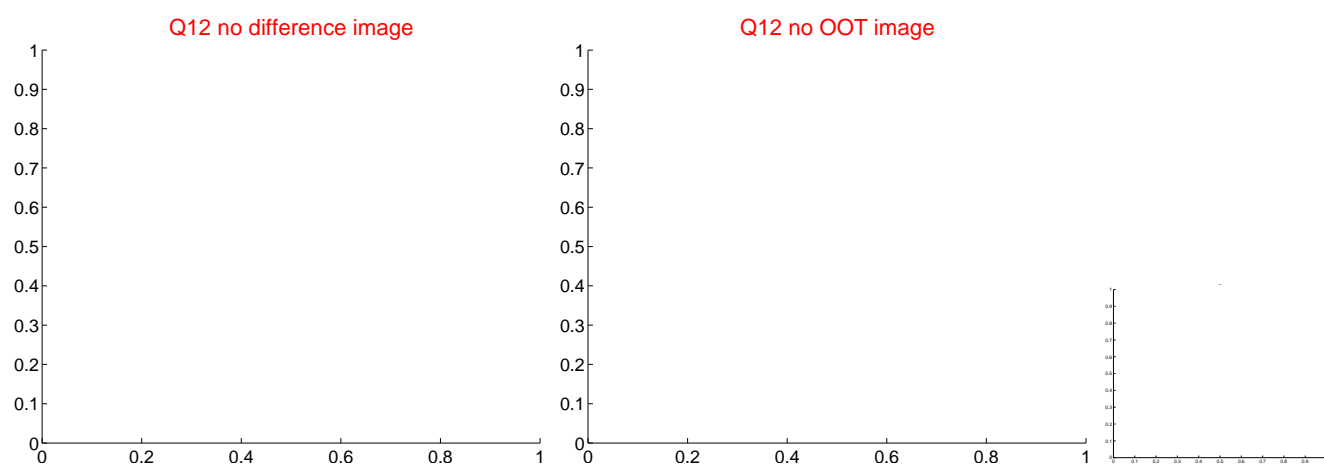
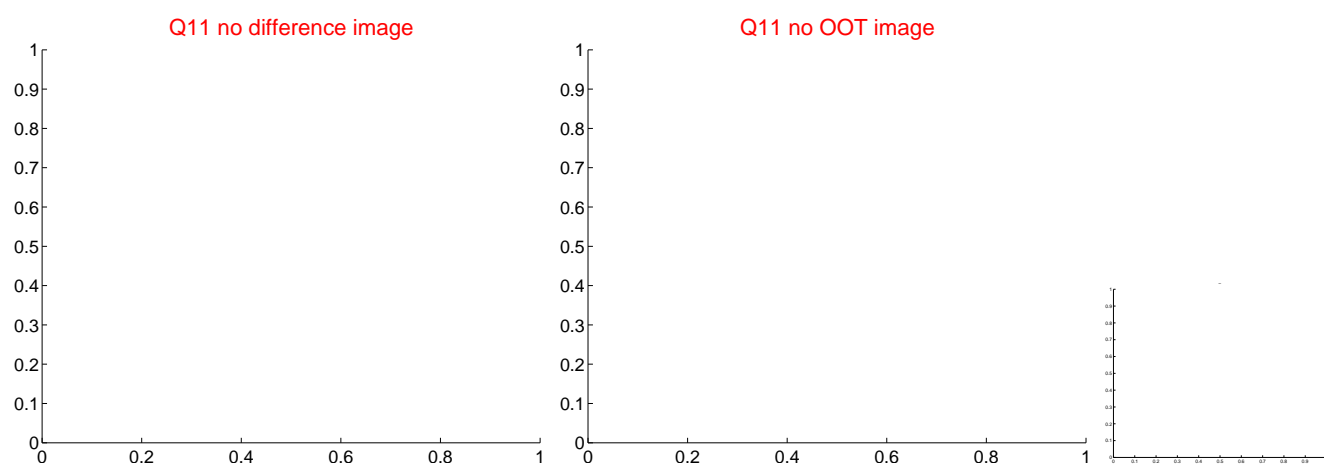
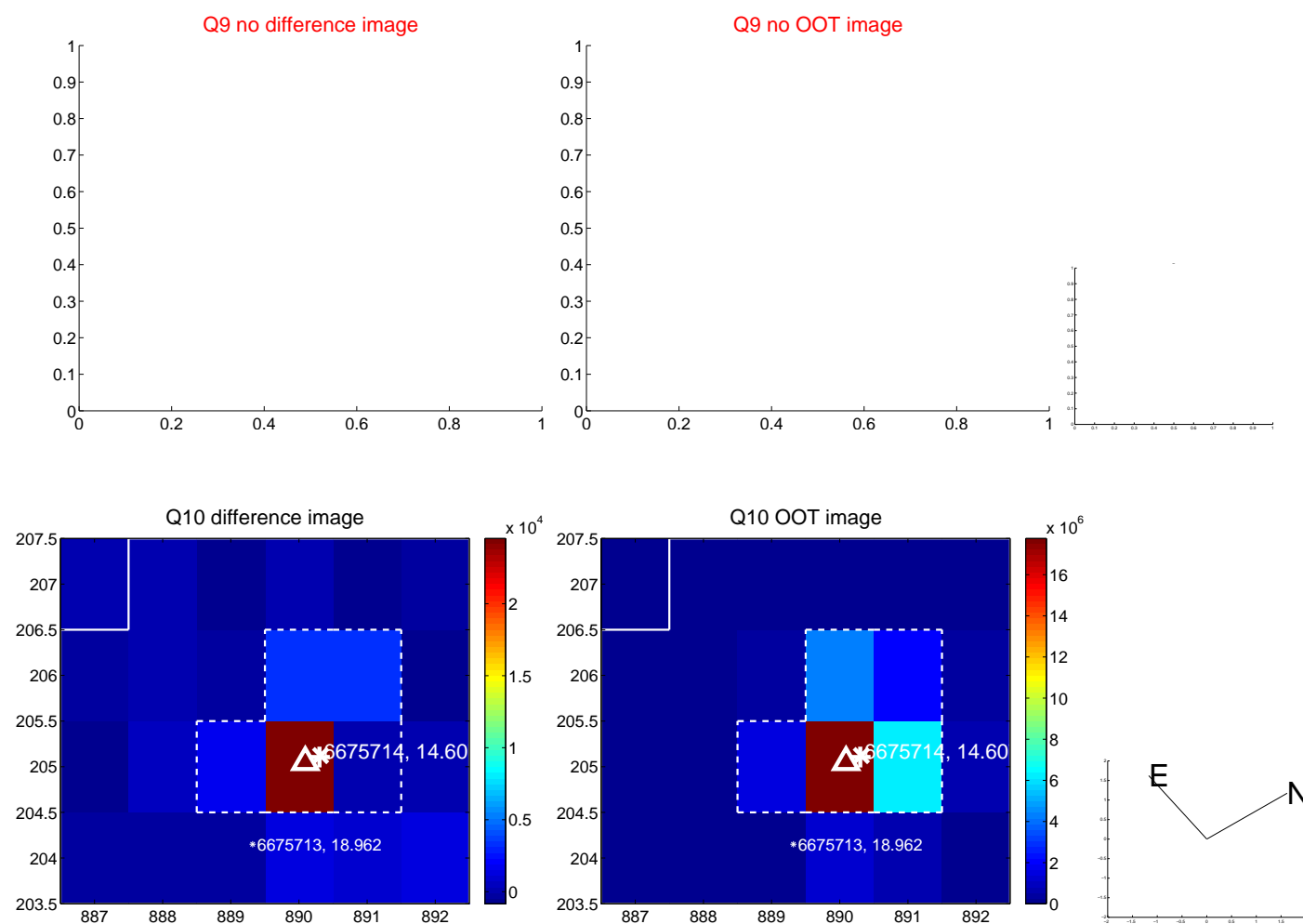
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



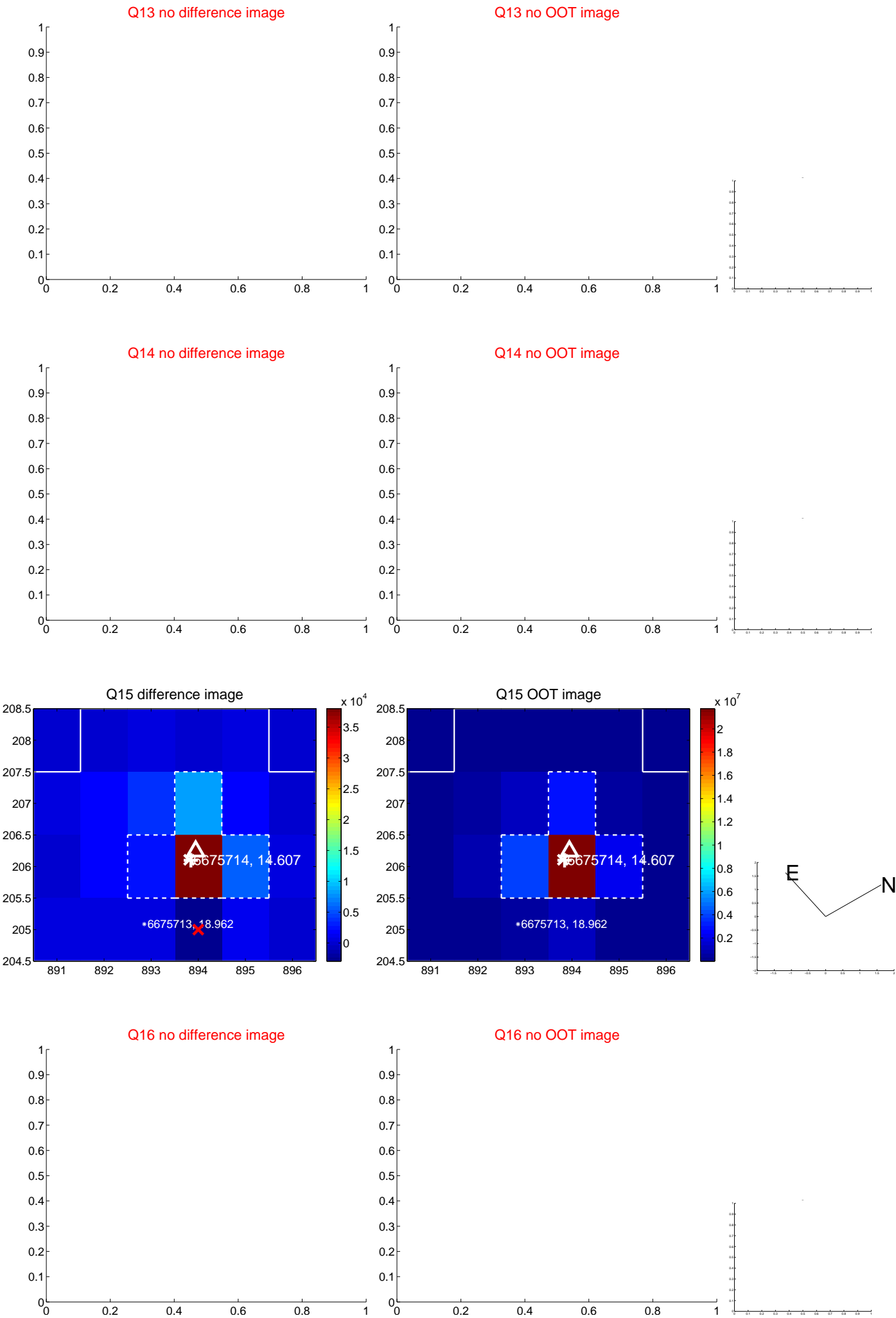
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



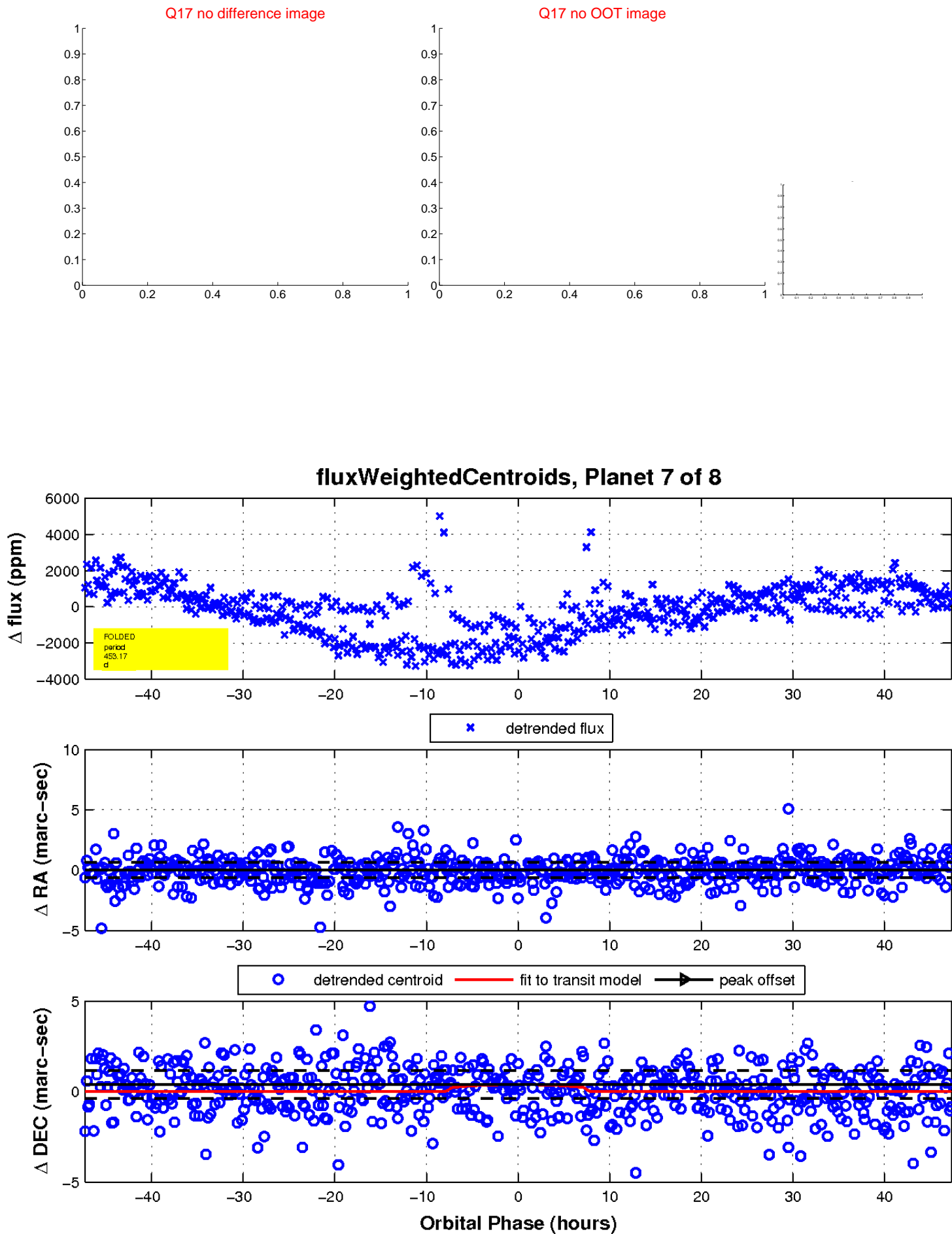
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

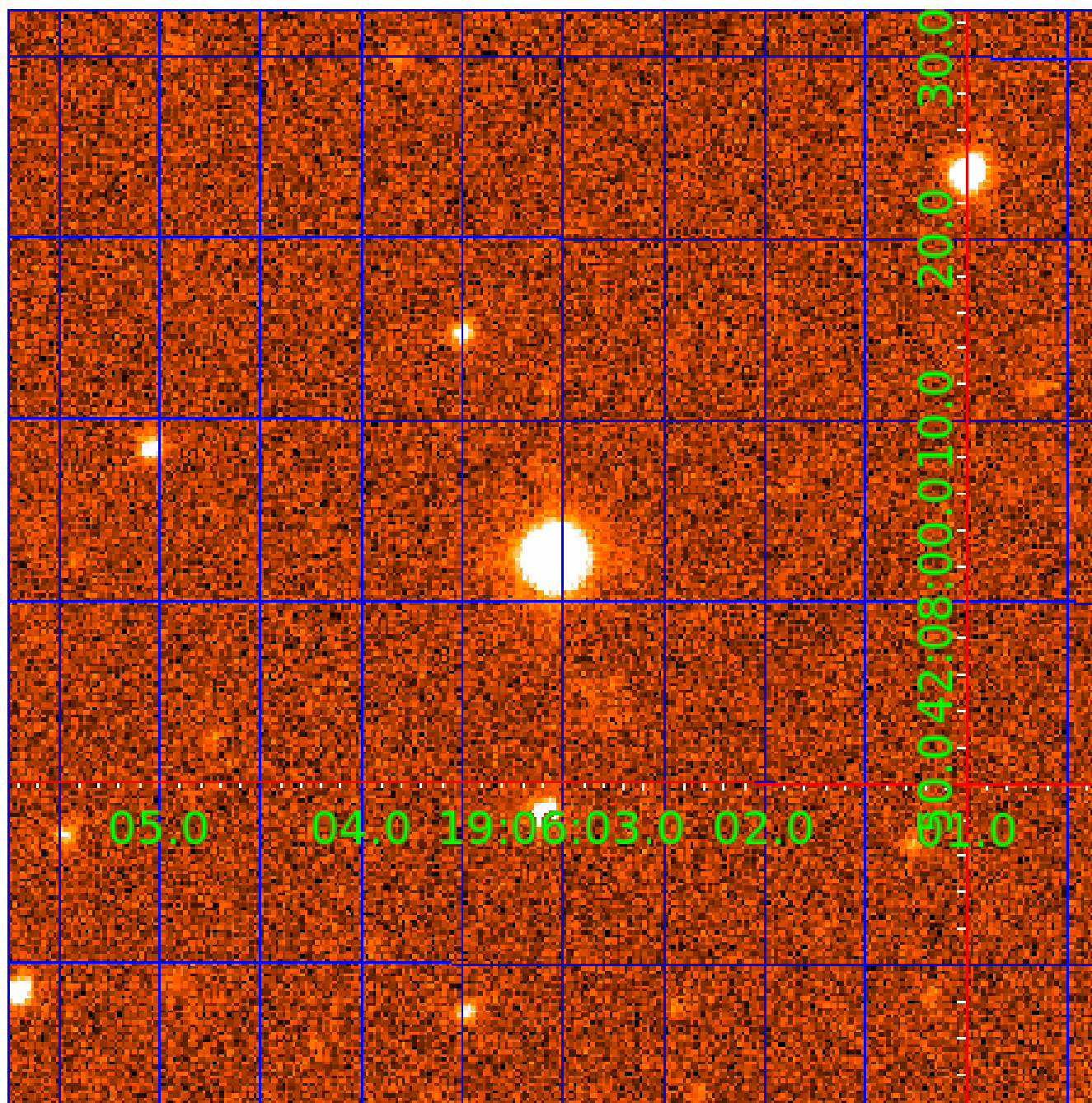


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006675714

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})
006675714-01	OBS	No	505.231431	524.670544	1233.8	19.115	27.1	6.3	0.67	4186	2.31	0.10
006675714-02	OBS	No	403.071050	272.459716	1220.1	8.056	13.8	8.2	0.67	4186	2.40	0.14
006675714-03	OBS	No	544.831859	286.498596	2161.0	18.692	14.3	8.4	0.67	4186	6.28	0.09
006675714-04	OBS	No	398.742068	285.233668	477.4	4.641	10.8	3.4	0.67	4186	1.66	0.14
006675714-05	OBS	No	219.164885	269.258651	812.0	16.068	10.7	6.6	0.67	4186	2.05	0.32
006675714-06	OBS	No	503.245560	521.805215	1127.2	13.274	12.2	7.2	0.67	4186	2.37	0.10
006675714-07	OBS	No	453.169315	492.726000	864.6	15.793	11.5	4.7	0.67	4186	2.03	0.12
006675714-08	OBS	No	219.630910	294.563116	1131.1	2.500	10.7	-1.0	0.67	4186	2.16	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006675714-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-02	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
006675714-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
006675714-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS—HALO_GHOST
006675714-05	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
006675714-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006675714-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—INCONSISTENT_TRANS
006675714-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

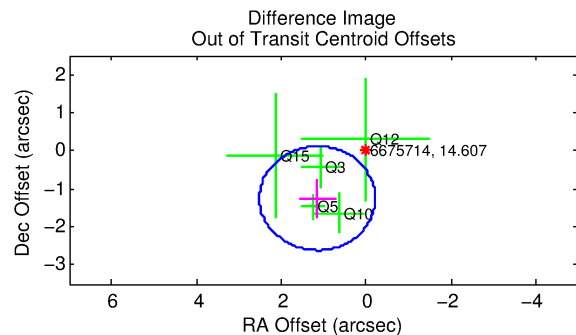
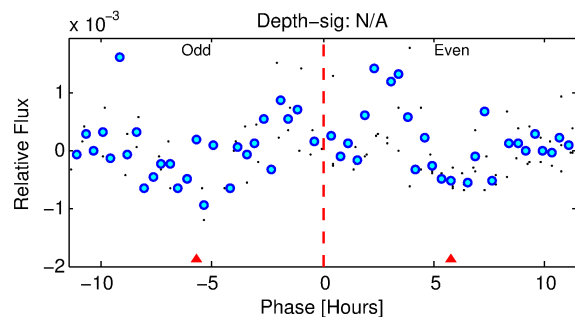
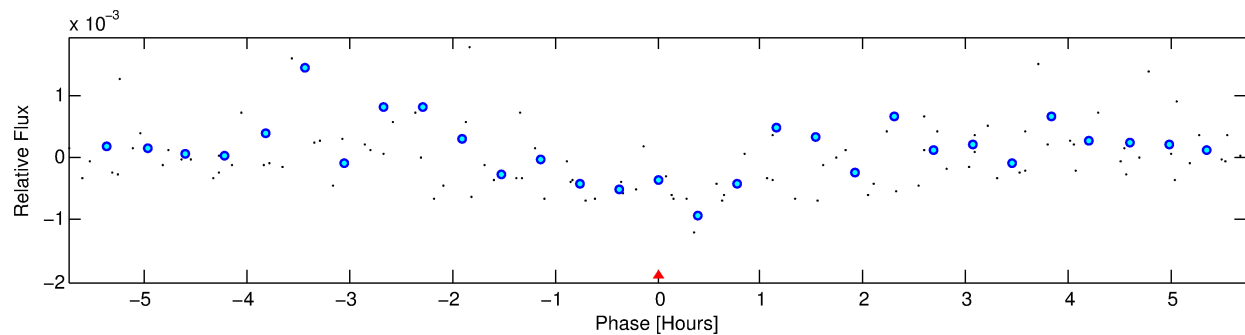
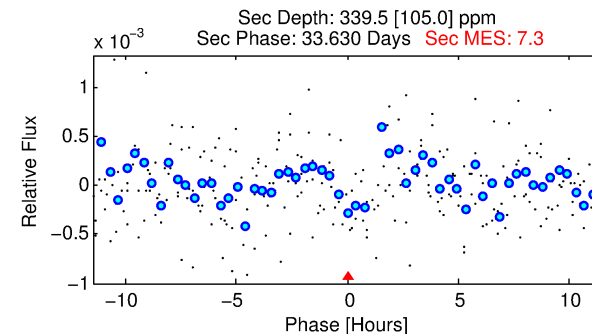
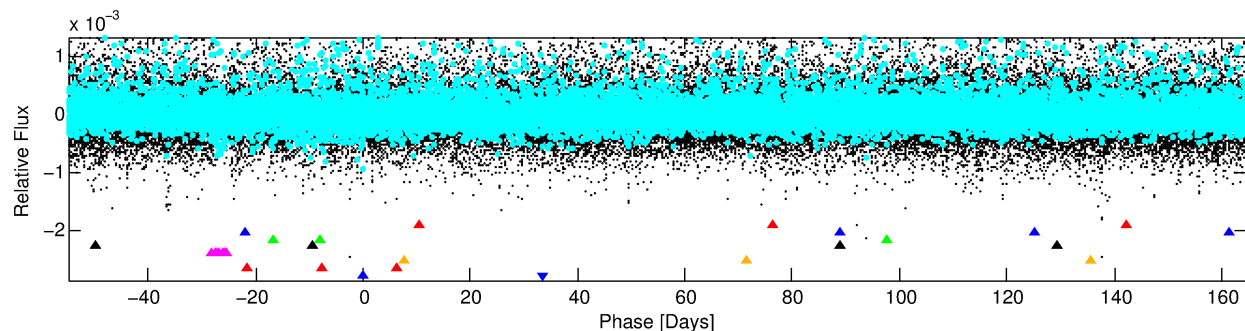
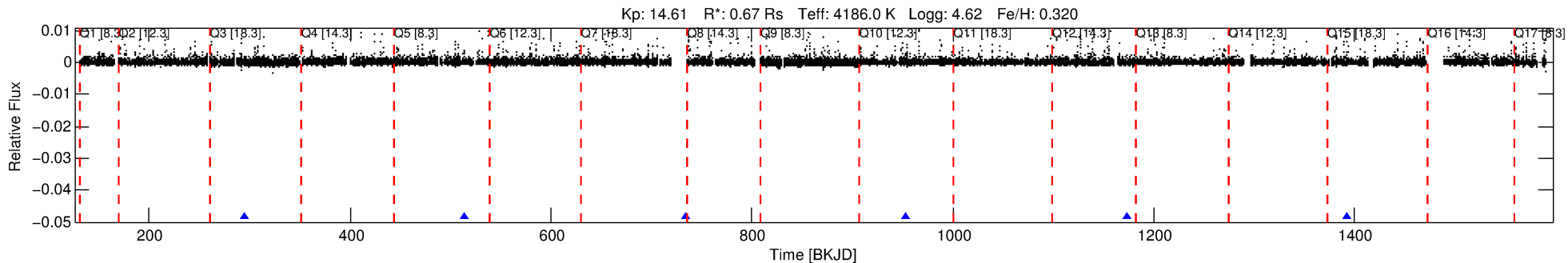
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006675714-08

No Significant Match Found

DV One-Page Summary

KIC: 6675714 Candidate: 8 of 8 Period: 219.631 d



TPS TCE Results:

Period = 219.63091 d
Epoch = 294.5631 BKJD

DV fit results are unavailable

DV Diagnostic Results:

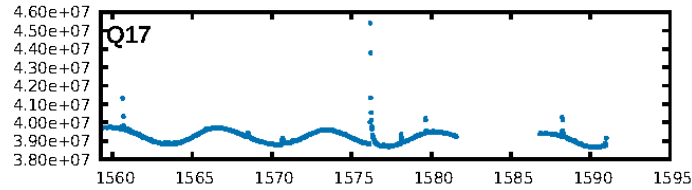
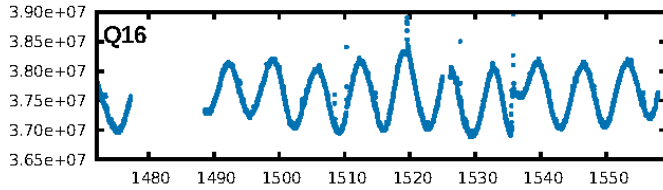
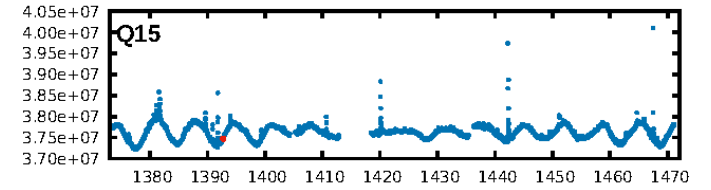
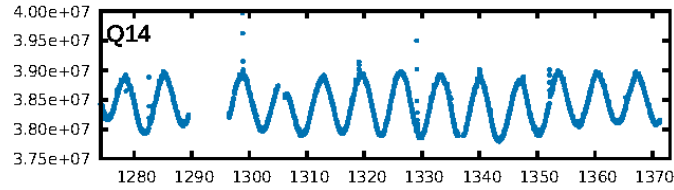
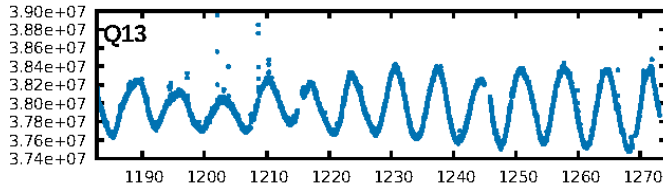
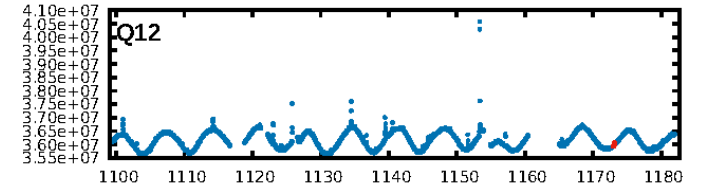
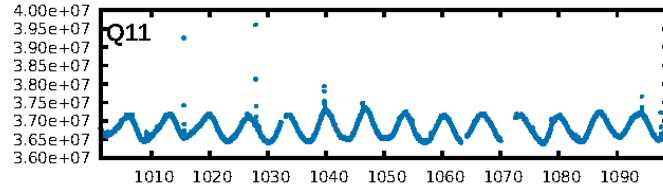
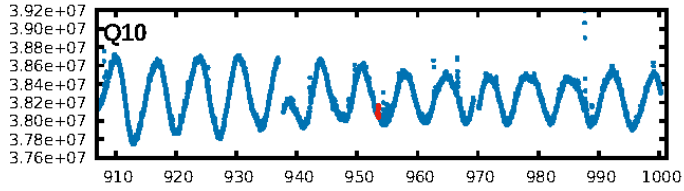
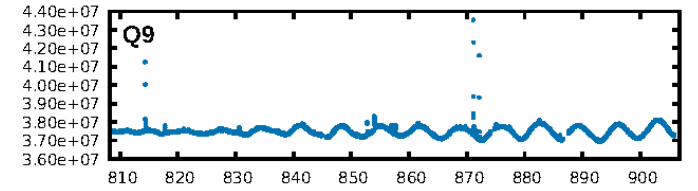
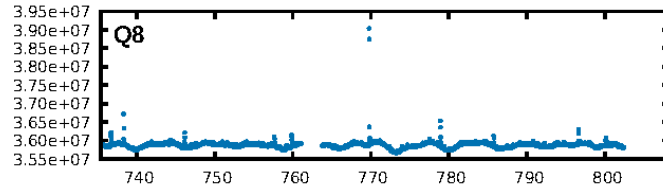
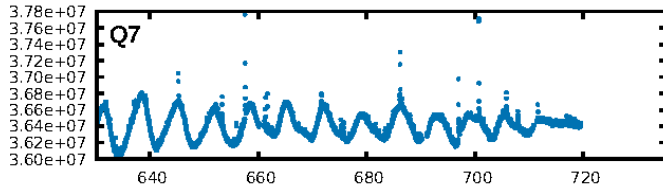
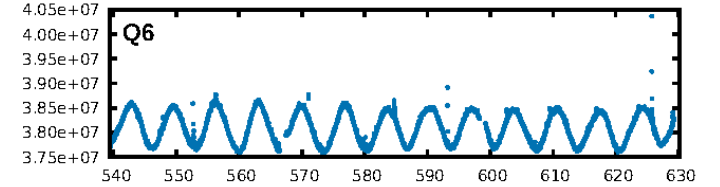
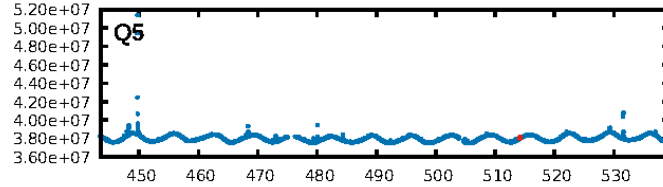
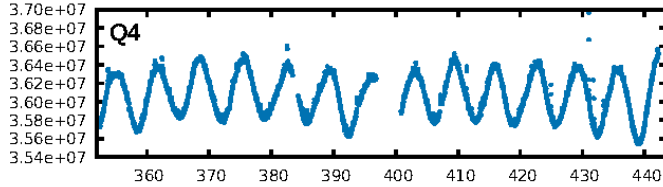
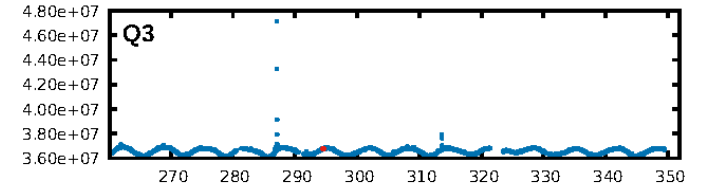
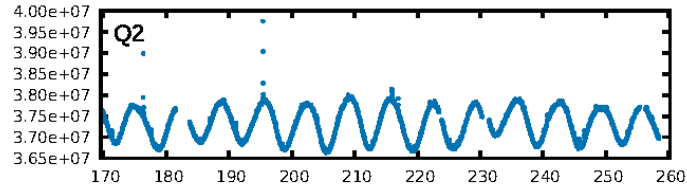
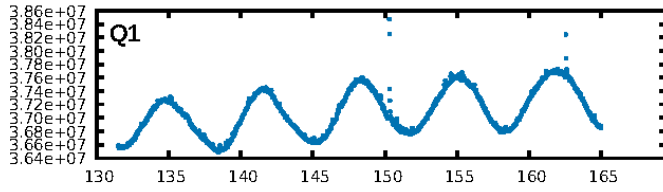
ShortPeriod-sig: 50.8% [0.69 σ]
LongPeriod-sig: 100.0% [815.44 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -0.8996

Centroid-sig: 78.7%
Centroid-so: 0.683 arcsec [0.52 σ]
OotOffset-rm: 1.697 arcsec [3.73 σ]
KicOffset-rm: 1.745 arcsec [3.82 σ]
OotOffset-st: 1/2/1/1 [5]
KicOffset-st: 1/2/1/1 [5]
DiffImageQuality-fgm: 0.80 [4/5]
DiffImageOverlap-fno: 1.00 [5/5]

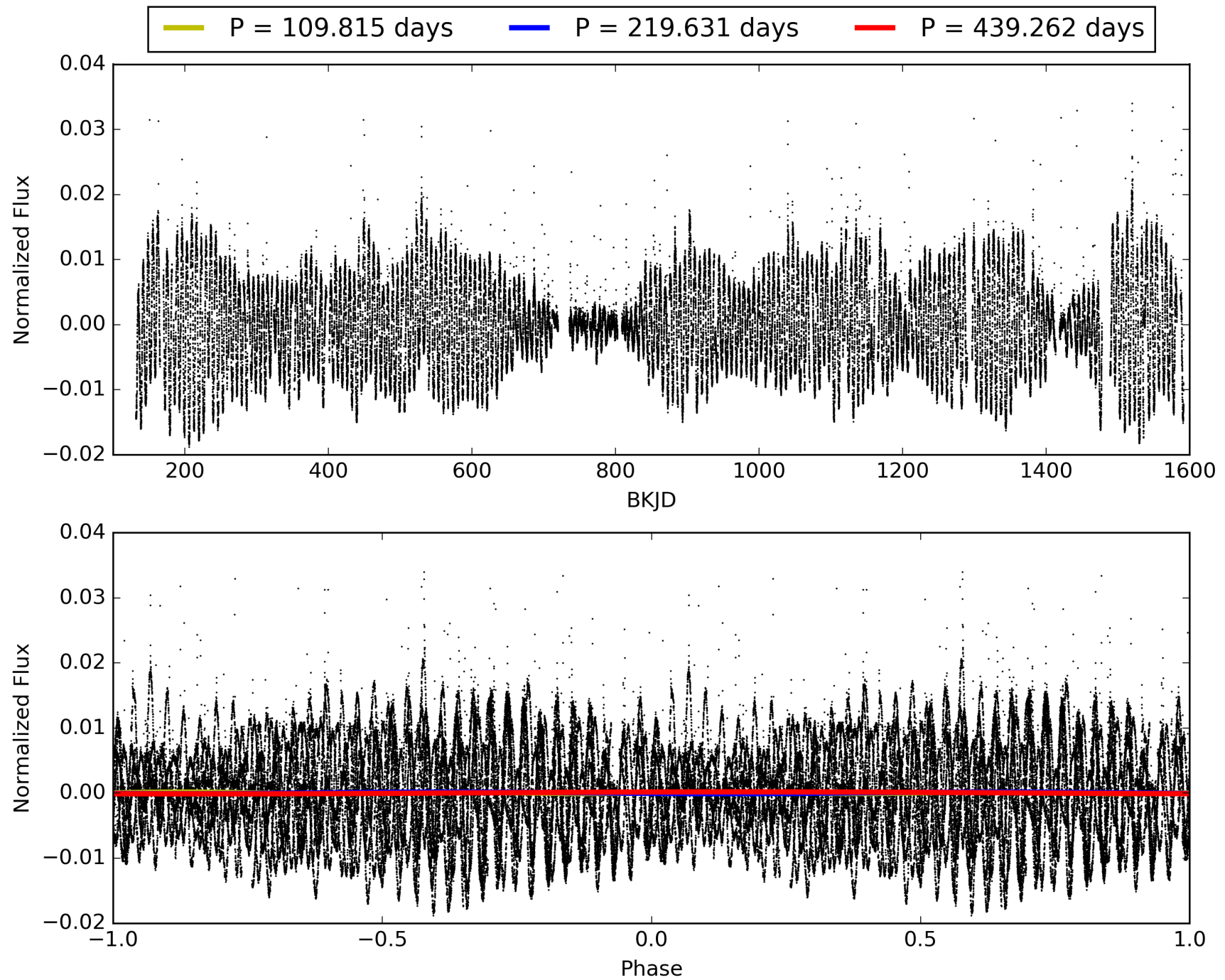
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:02:09 Z

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

TCE 006675714-08, PDC Light Curves

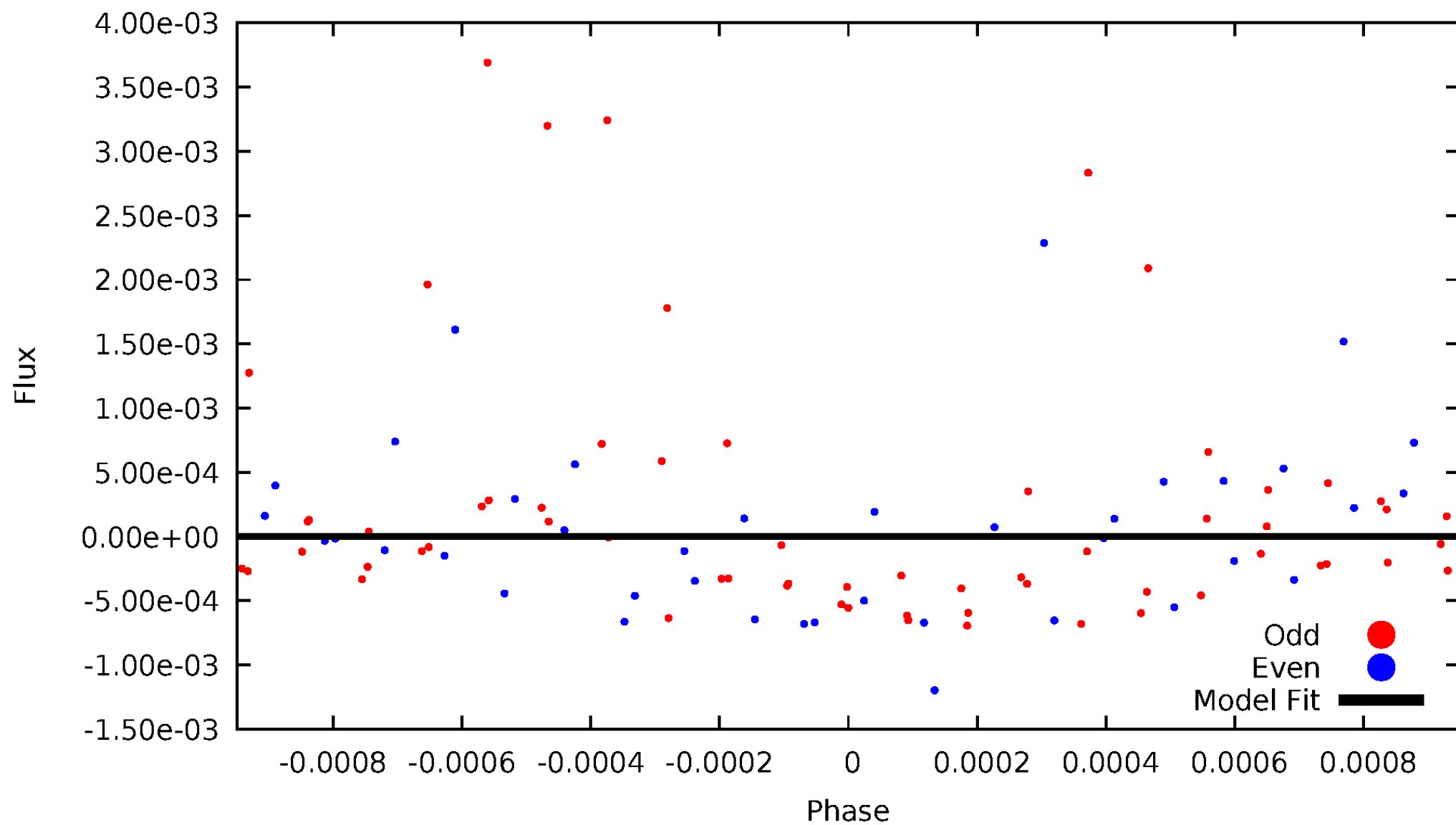


TCE 006675714-08



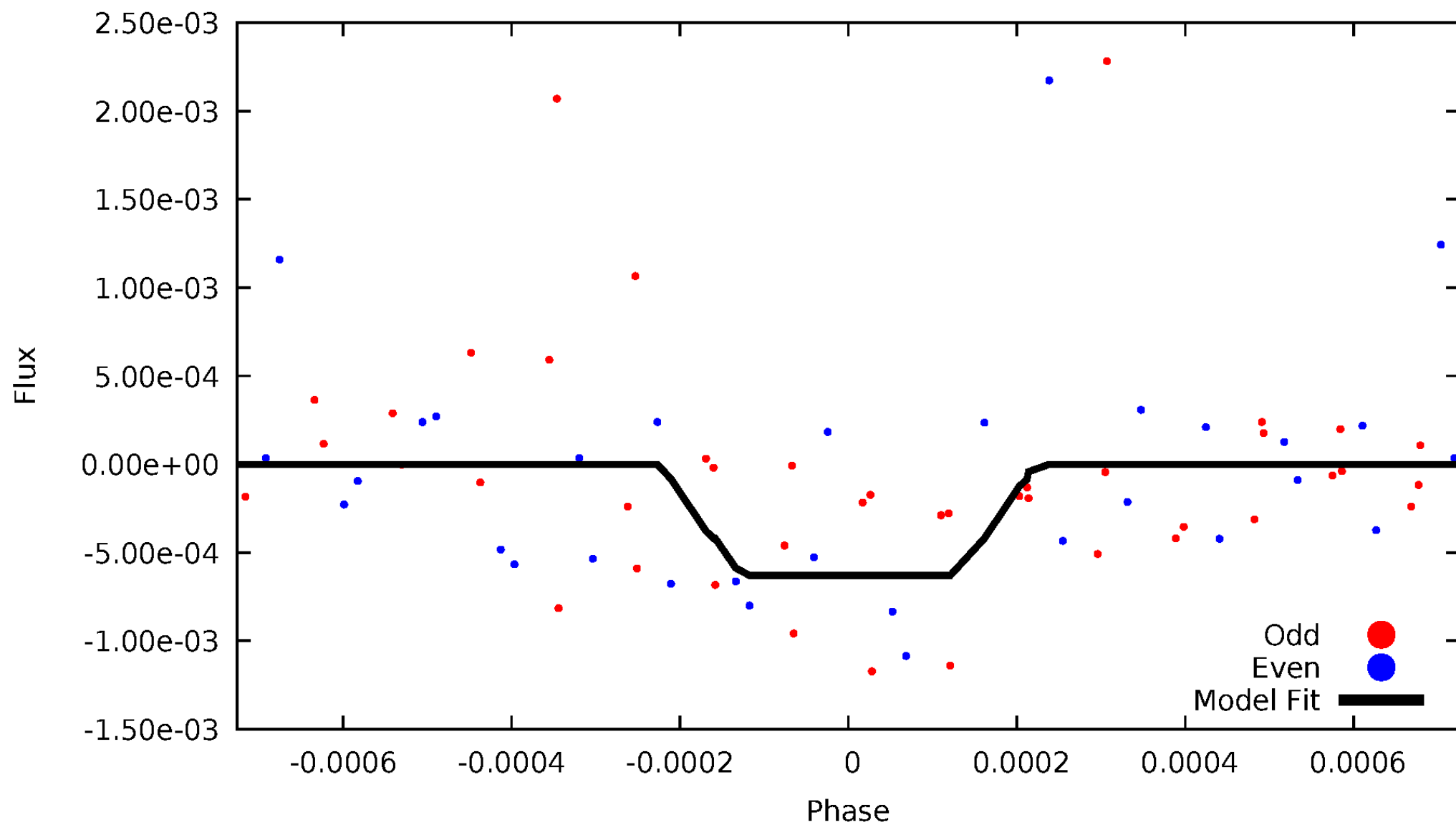
DV Odd/Even

TCE 006675714-08



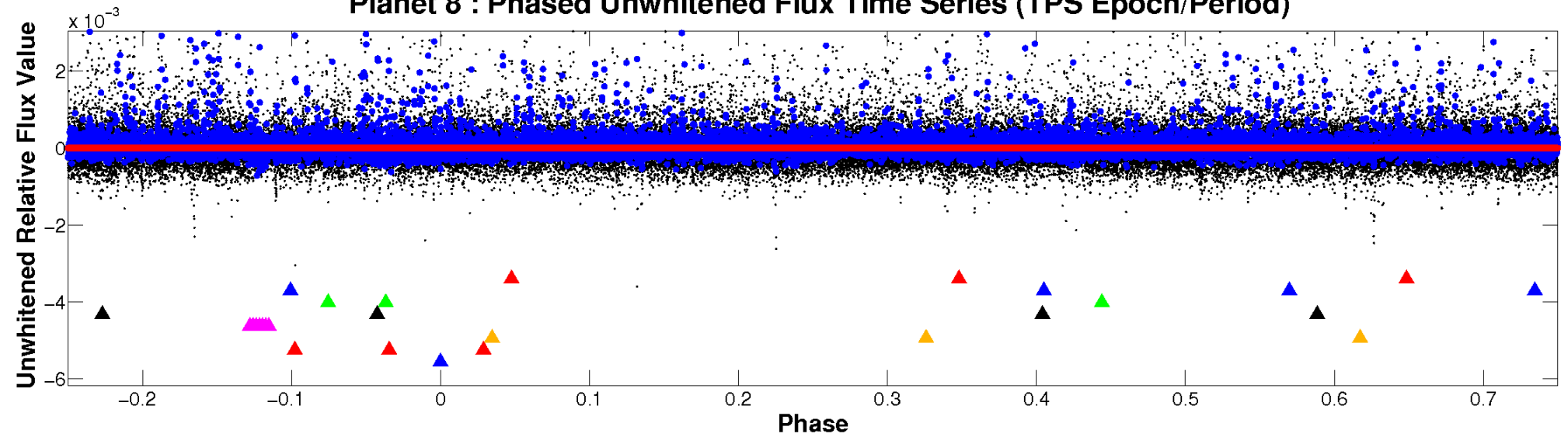
ALT Odd/Even

TCE 006675714-08

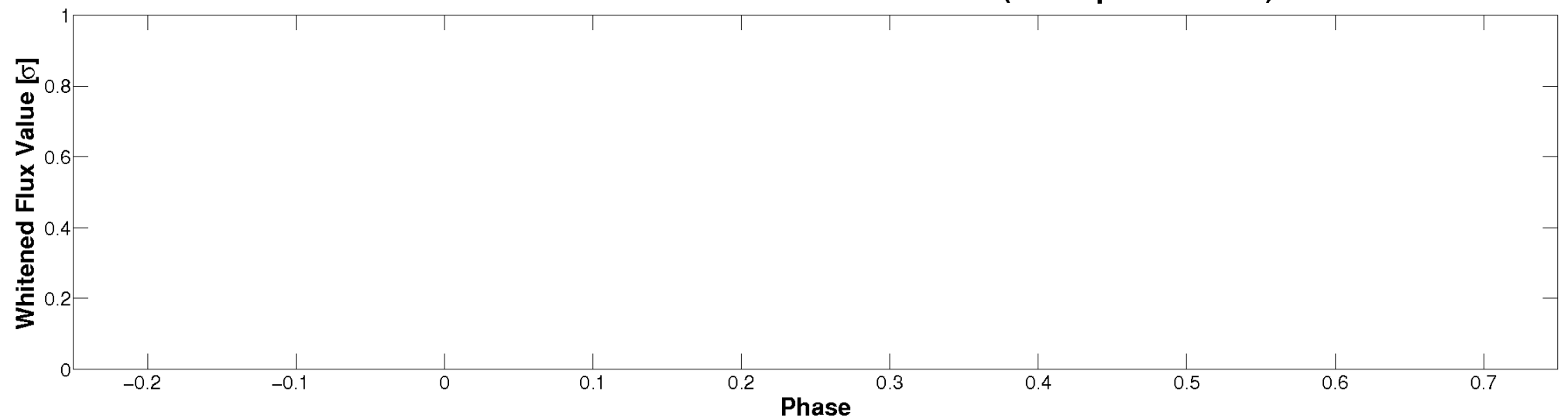


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

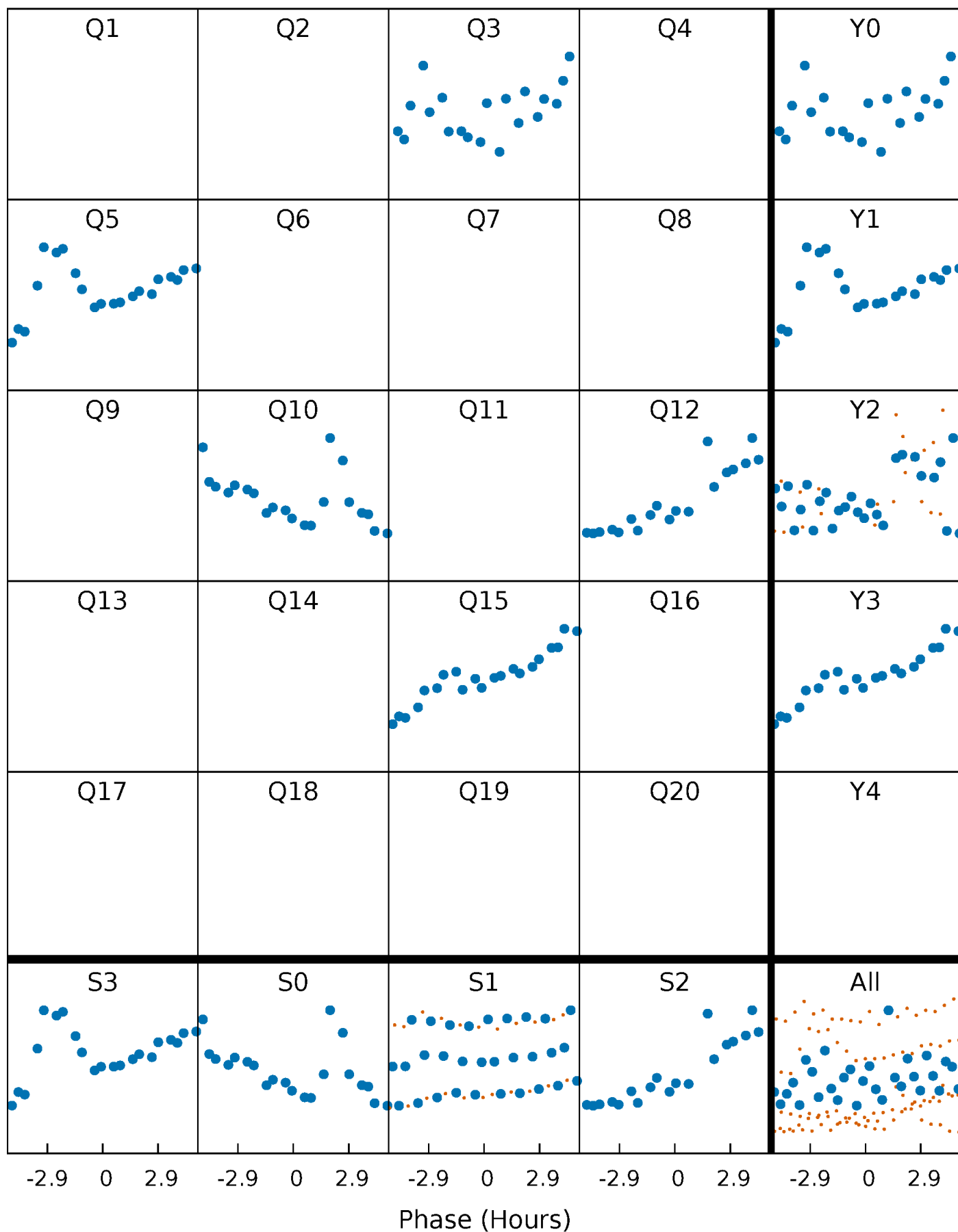


Planet 8 : Phased Whitened Flux Time Series (TPS Epoch/Period)



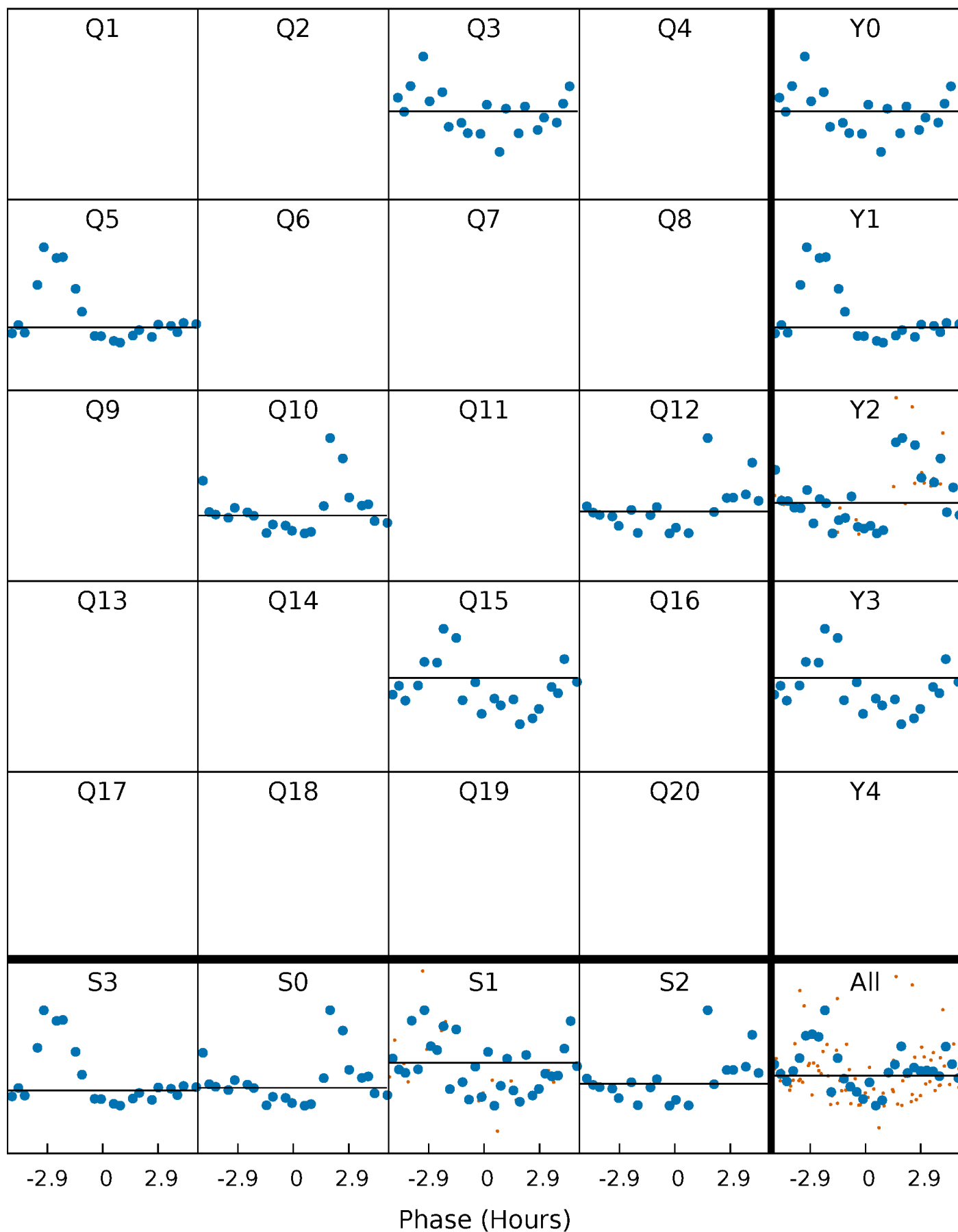
PDC Quarter-Phased Transit Curves

TCE 006675714-08 P=219.630910 Days $T_0=294.563116$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006675714-08 $P=219.630910$ Days $T_0=294.563116$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

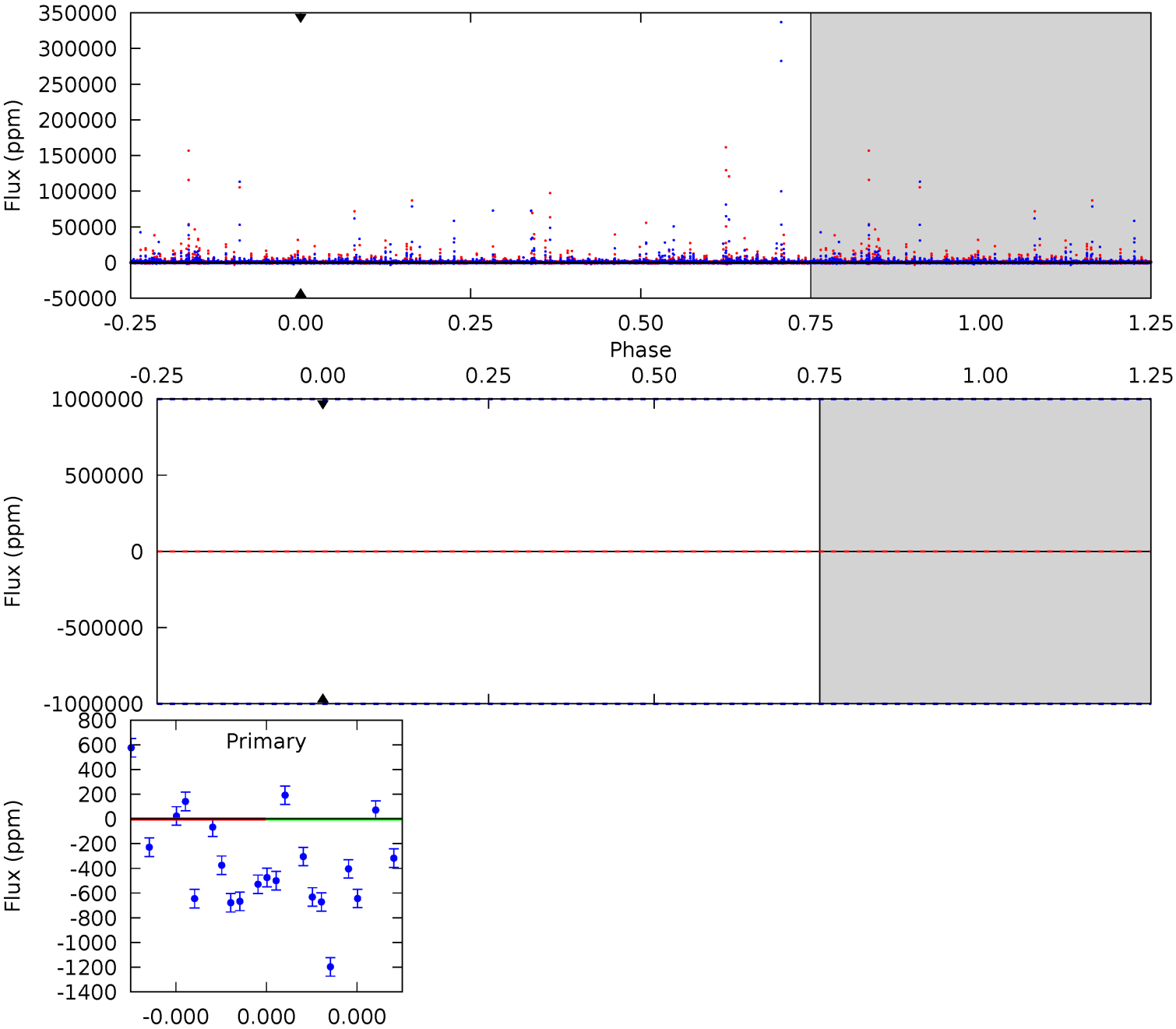
TCE 006675714-08 P=219.630910 Days $T_0=294.577416$ (BKJD)



DV Model-Shift Uniqueness Test

006675714-08, P = 219.630910 Days, E = 74.932206 Days

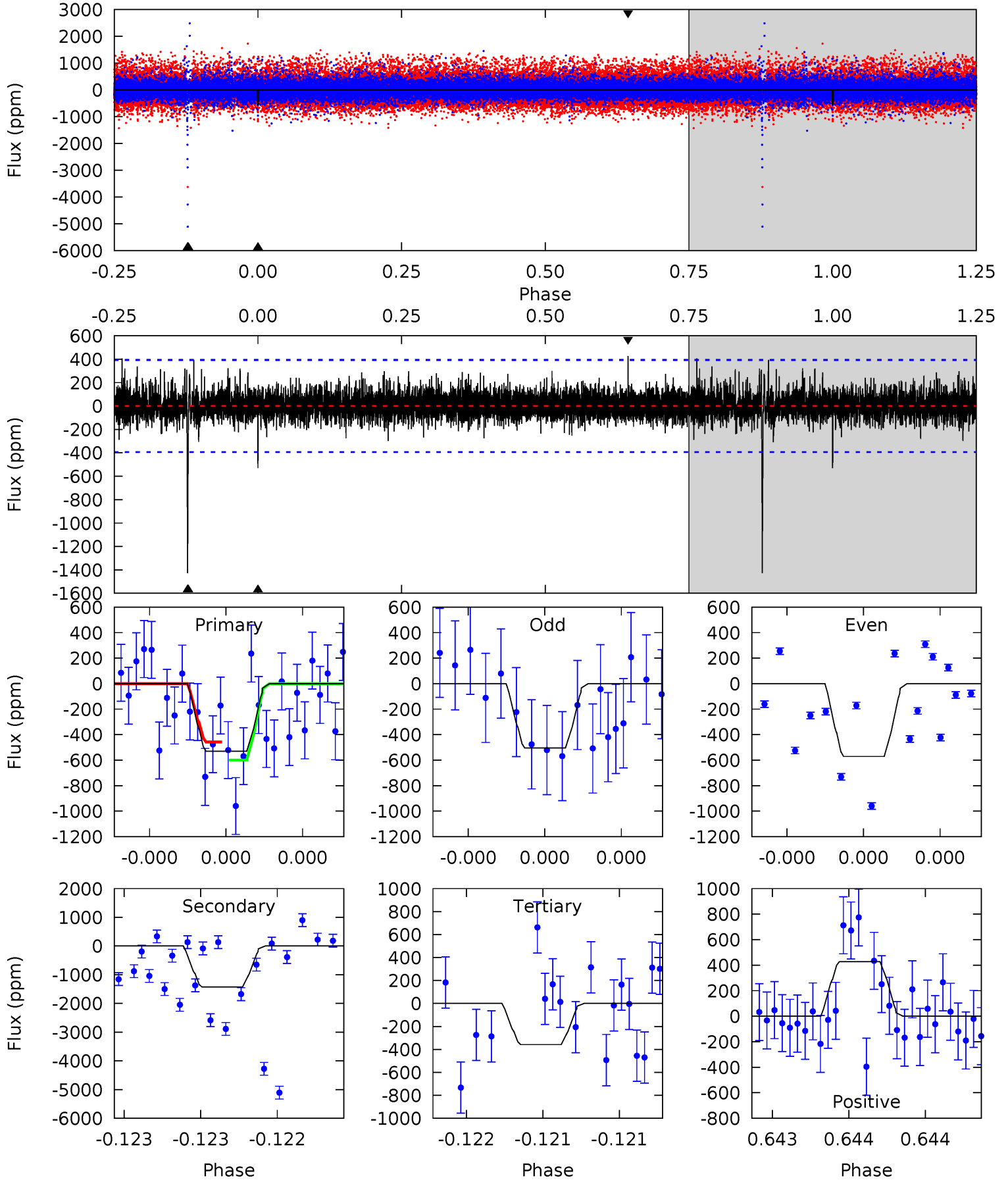
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006675714-08, P = 219.630910 Days, E = 74.946506 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.54	20.3	5.09	6.08	5.59	3.51	1.12	2.45	1.46	15.2	14.2	0.42	1.13	0.23	1.01



Stellar Parameters For KIC 006675714

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4186^{+150}_{-167}	$4.617^{+0.046}_{-0.021}$	$0.320^{+0.100}_{-0.300}$	$0.672^{+0.027}_{-0.058}$	$0.682^{+0.035}_{-0.060}$	$3.164^{+0.671}_{-0.250}$
	+4%/-4%	+1%/-0%	+31%/-94%	+4%/-9%	+5%/-9%	+21%/-8%
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 006675714-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$5.76^{+5.81}_{-4.00}$	265^{+10}_{-10}	-2993^{+12141}_{-6536}	$-5898.133^{+1043043.545}_{-1143586.892}$
Alt.	-1426 ± 70	$5.61^{+5.53}_{-3.93}$	265^{+11}_{-11}	3301^{+1800}_{-607}	$10029^{+103548}_{-7529}$

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

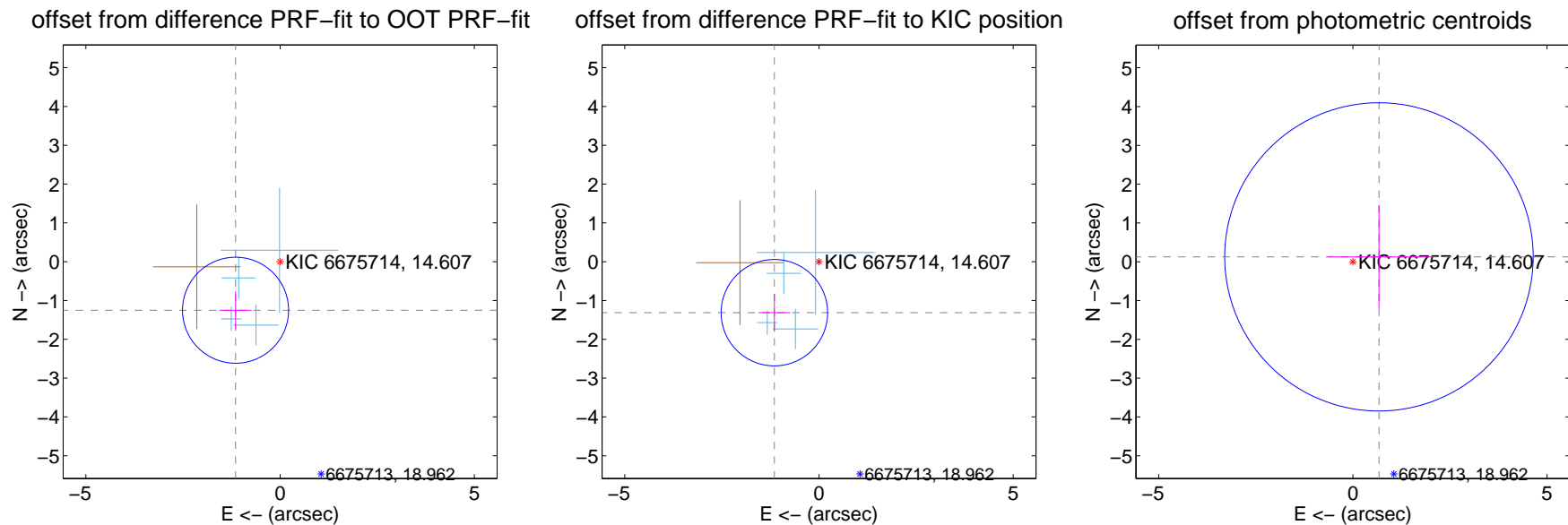
DV Centroid Data

Supplemental centroid analysis for 006675714-08. Kepler magnitude: 14.61. Transit SNR -1.00

There are 4 quarters with good PRF difference image offsets

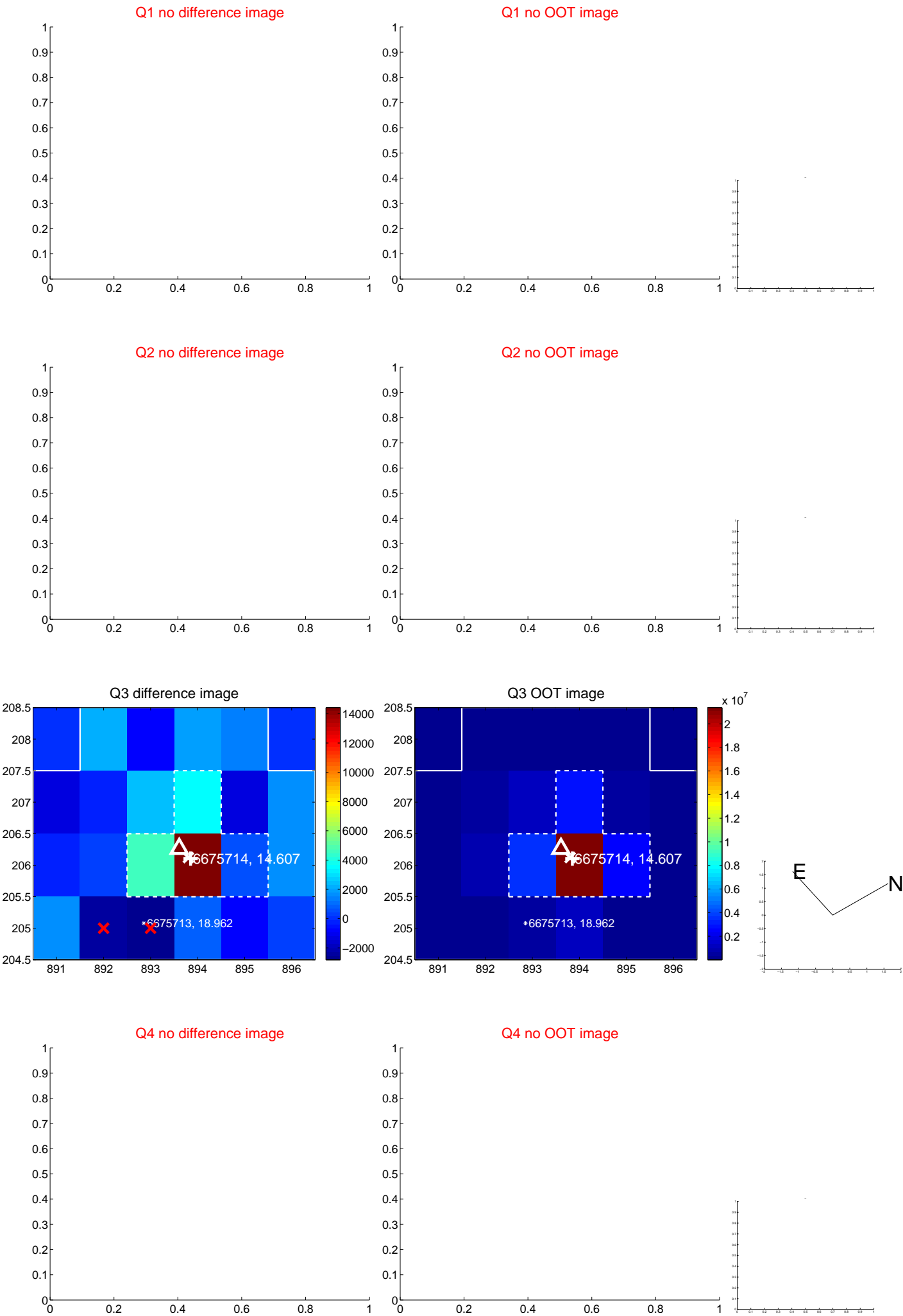
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.697 ± 0.455	3.73	1.147 ± 0.413	-1.251 ± 0.488
PRF-fit source offset from KIC position	1.745 ± 0.457	3.82	1.149 ± 0.413	-1.314 ± 0.488
photometric centroid source offset	0.68 ± 1.32	0.52	-0.67 ± 1.32	0.13 ± 1.33

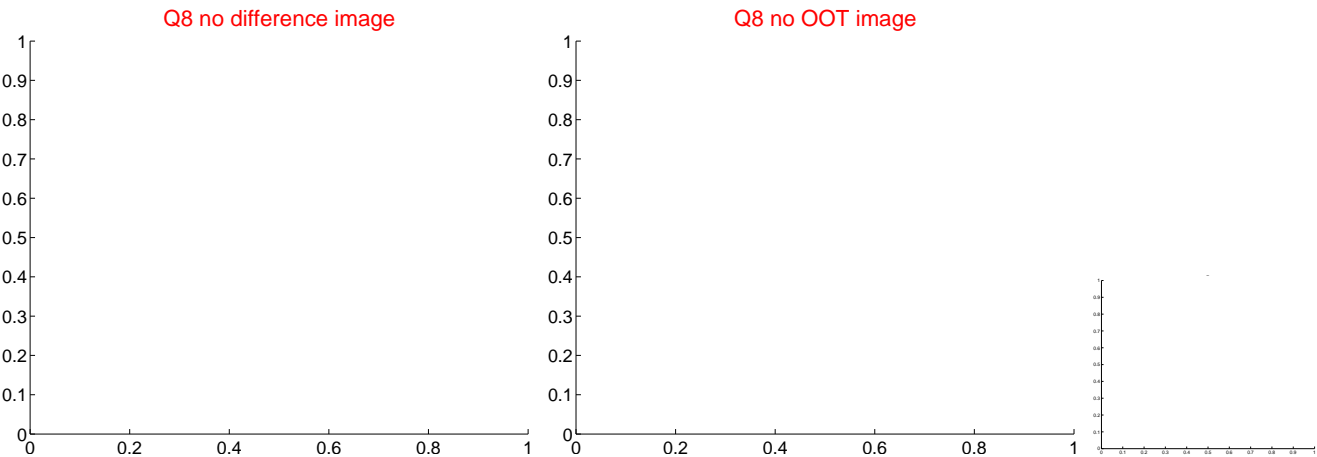
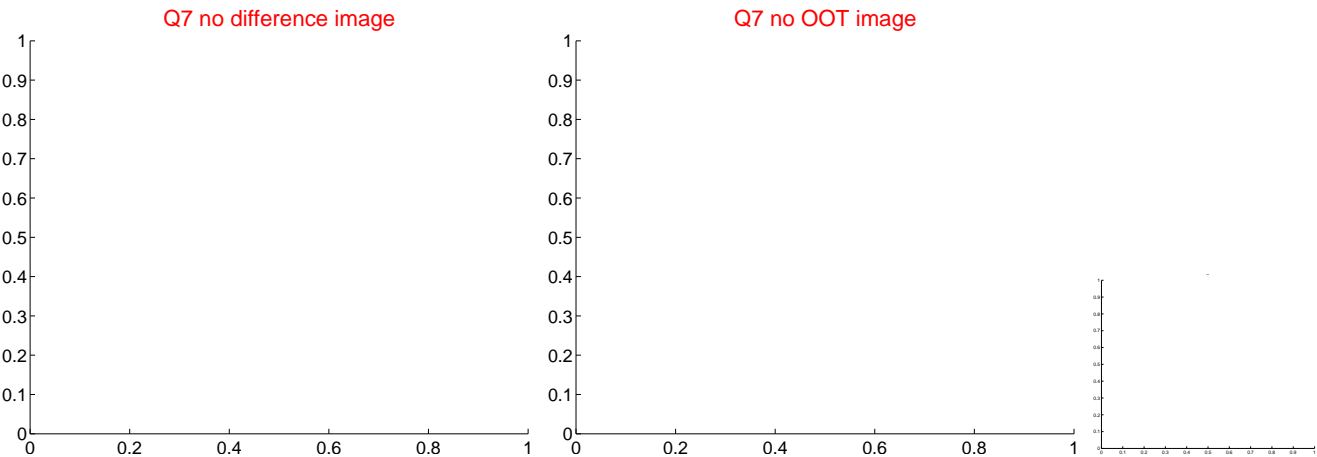
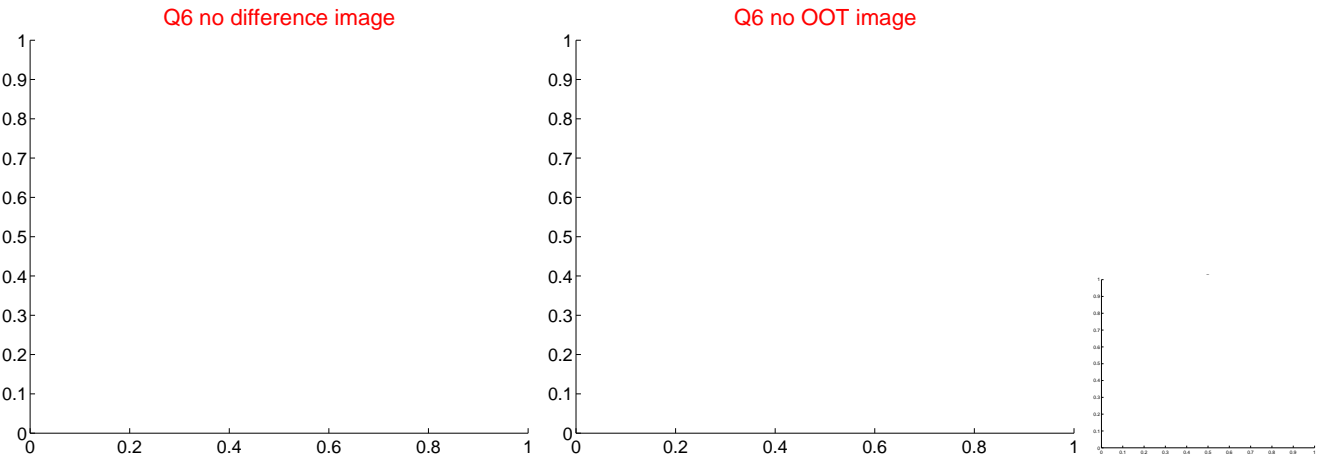
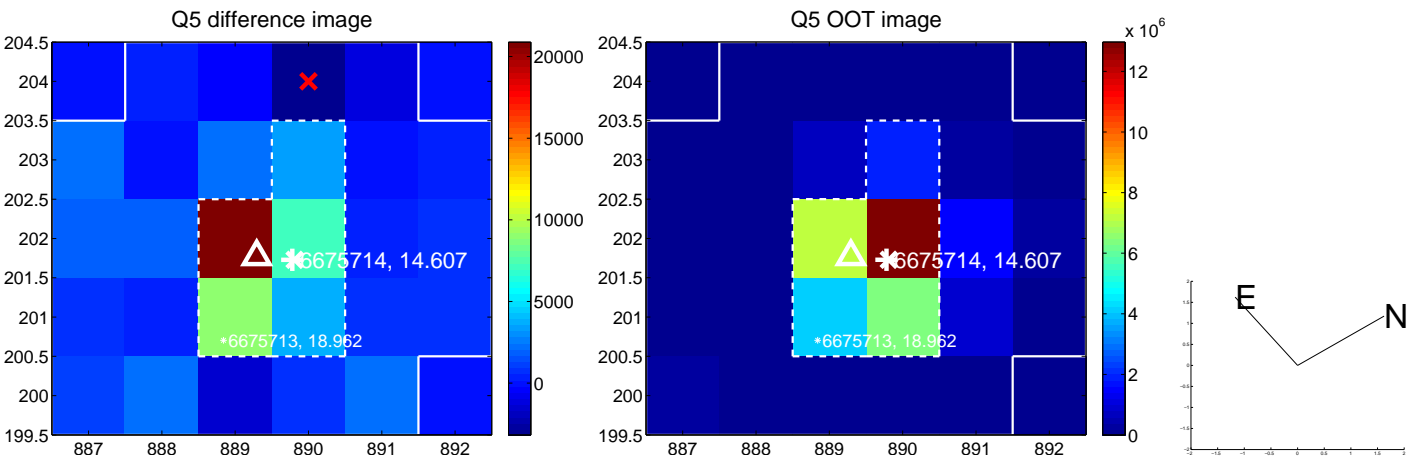


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

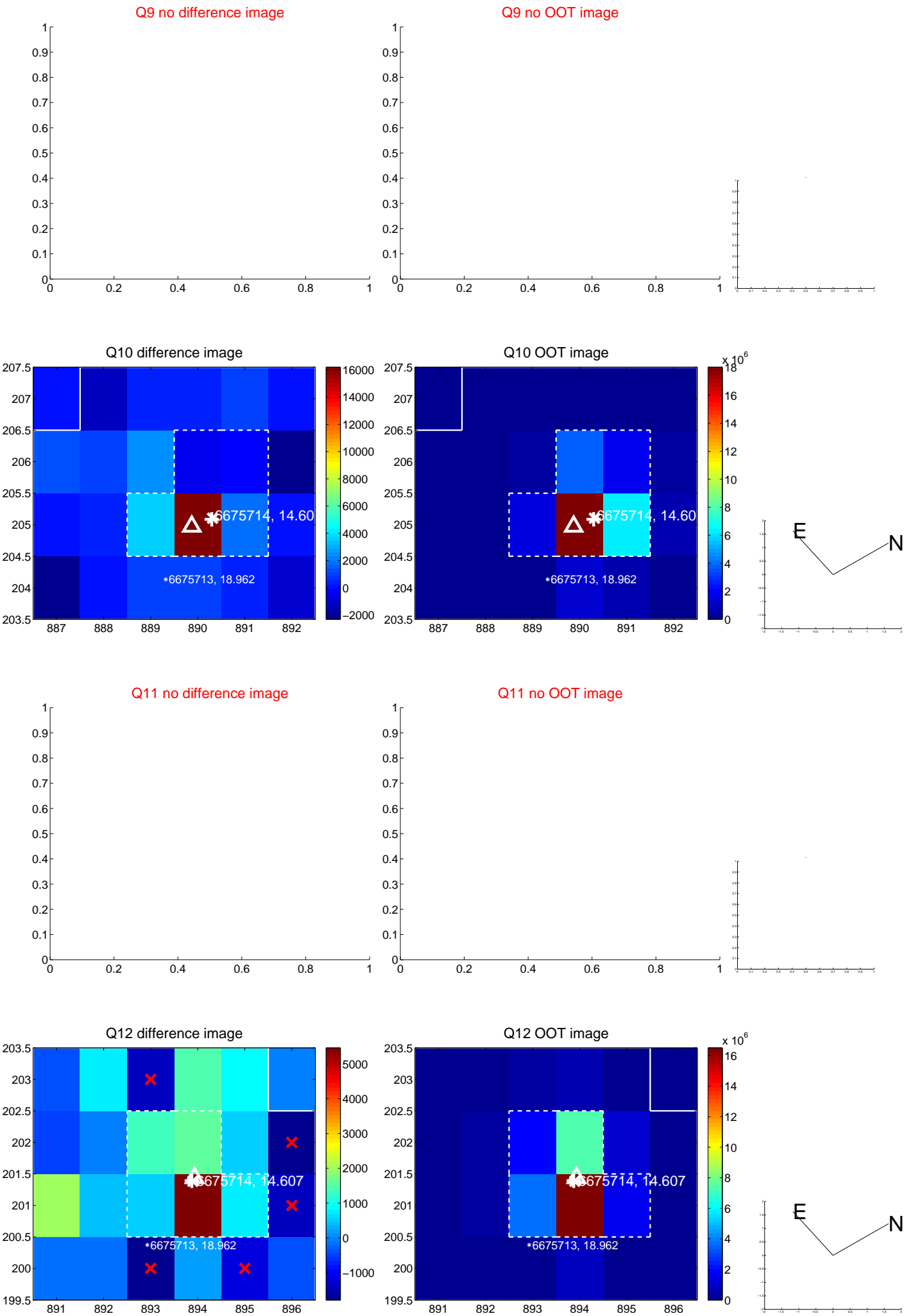
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

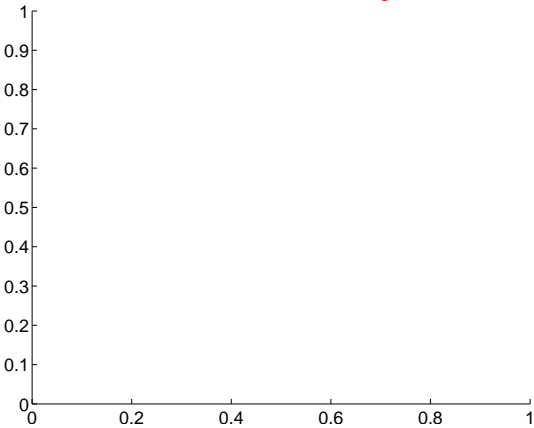


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

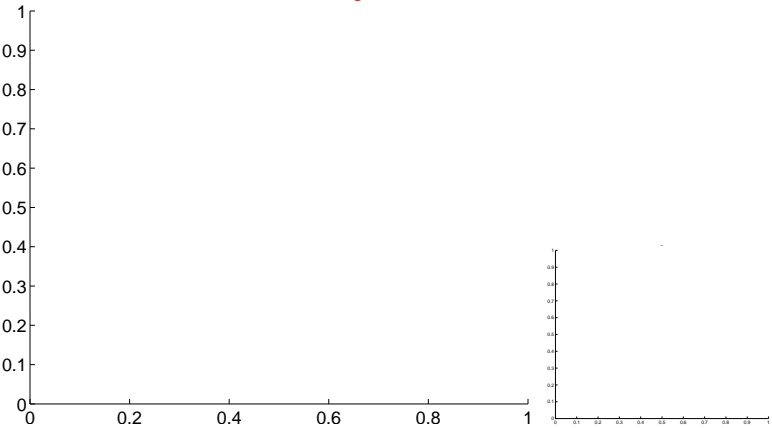


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

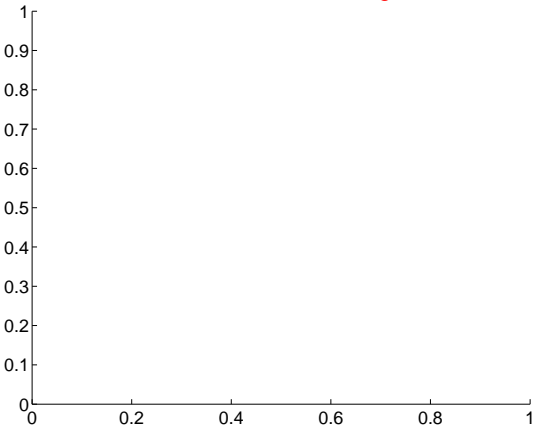
Q13 no difference image



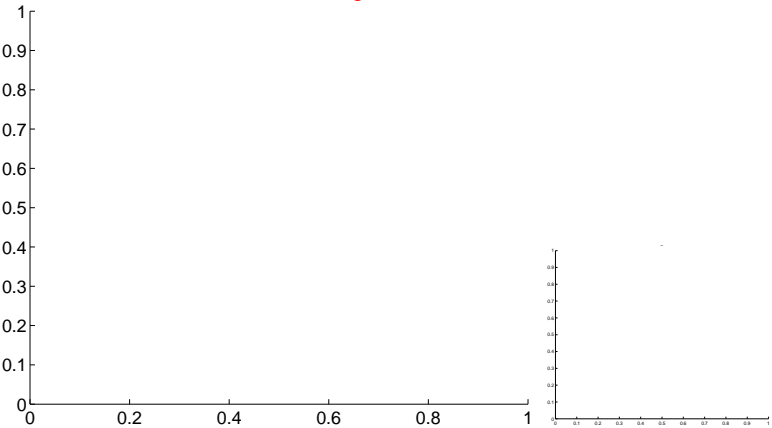
Q13 no OOT image



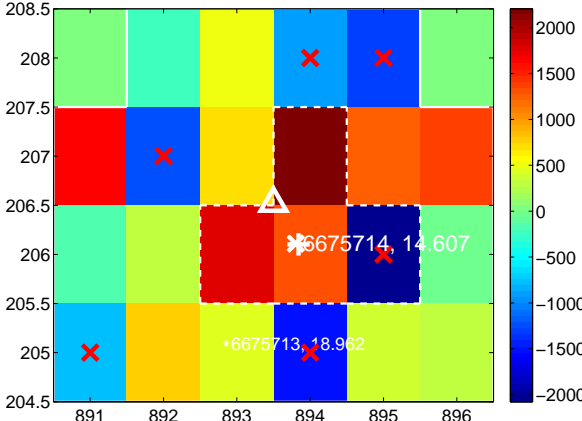
Q14 no difference image



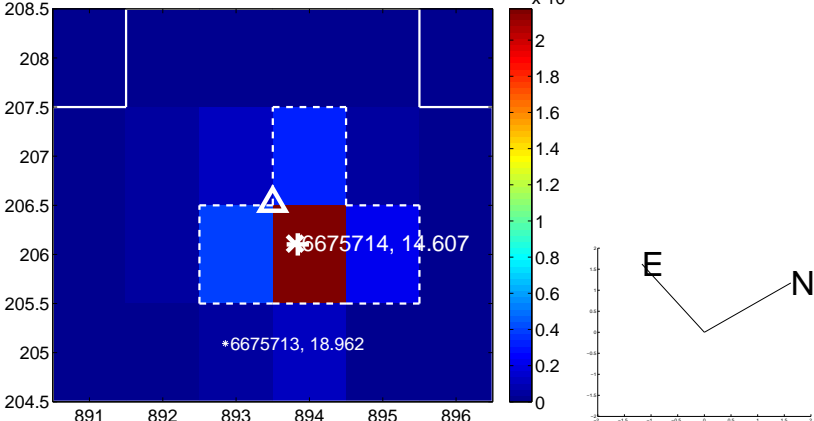
Q14 no OOT image



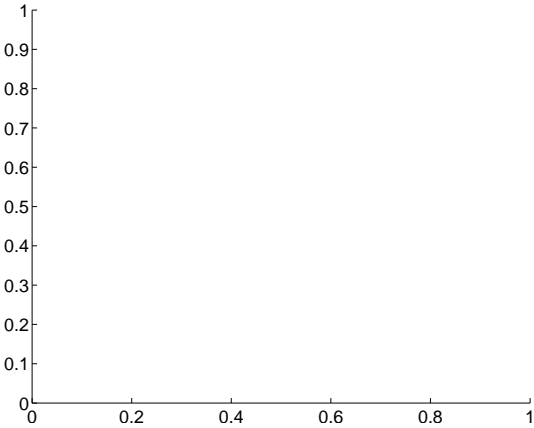
Q15 difference image. Poor Quality



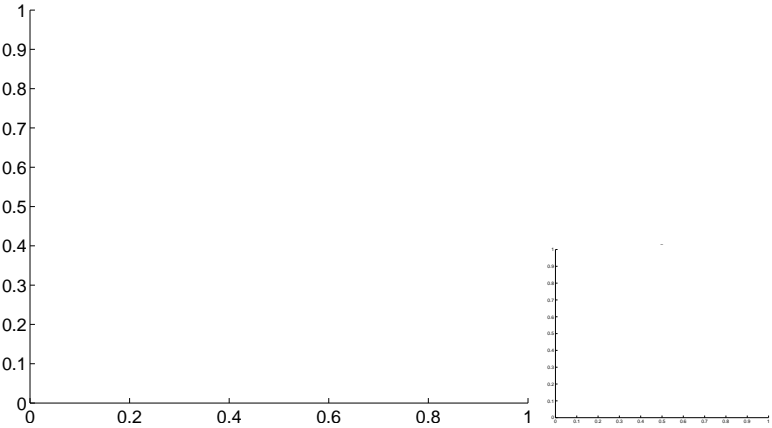
Q15 OOT image



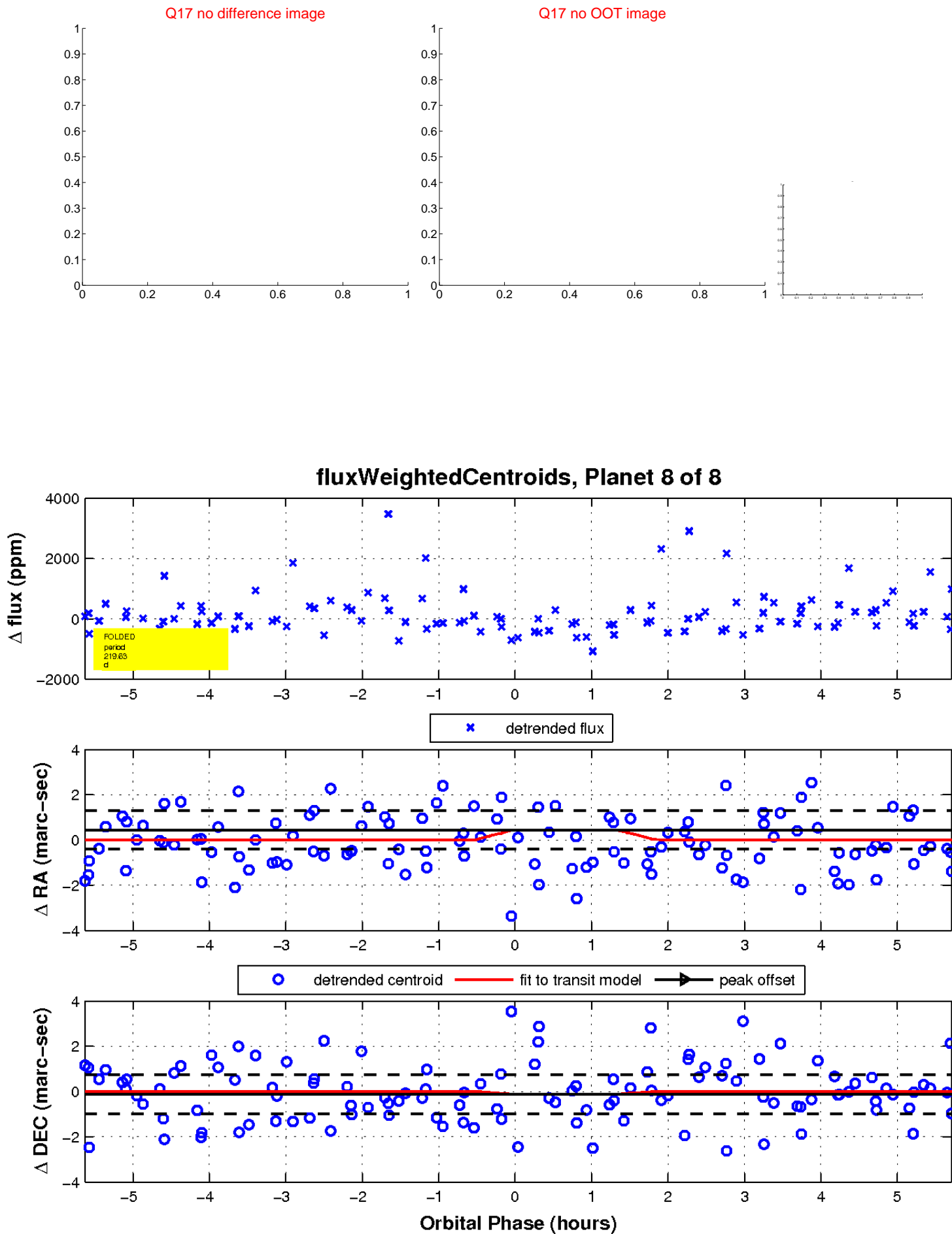
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

