

KIC 006795089

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})
006795089-01	OBS	7792.01	96.231680	216.988576	1022.4	2.991	8.6	9.0	9.53	4895	39.63	205.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006795089-01	OBS	FP	0.13	1	0	0	0	MOD_NONUNIQ_ALT

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

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

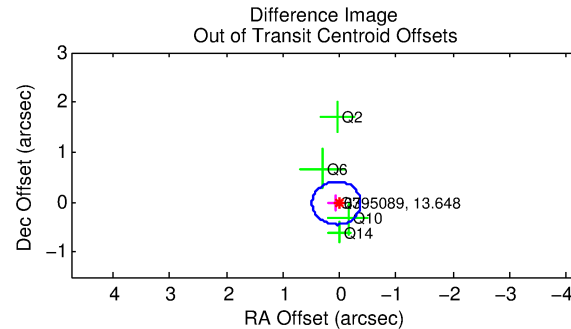
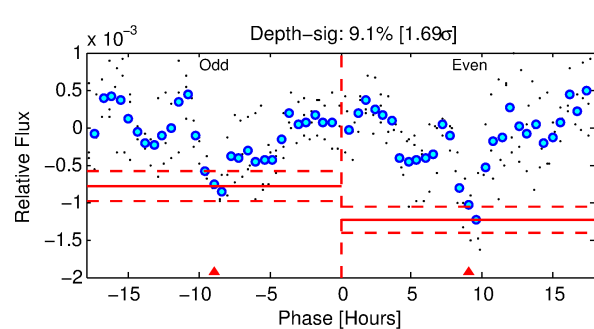
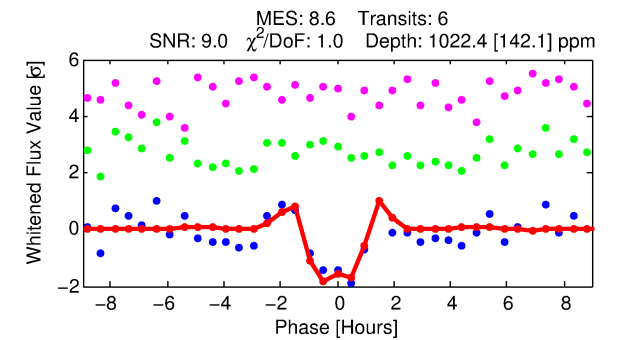
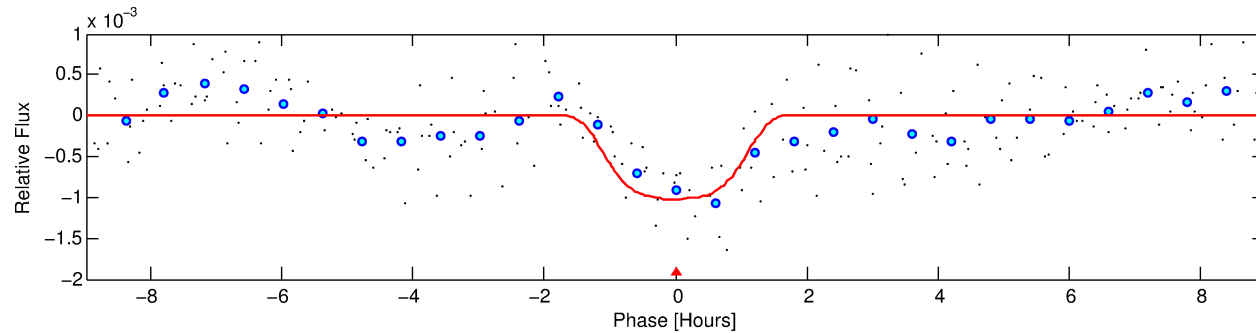
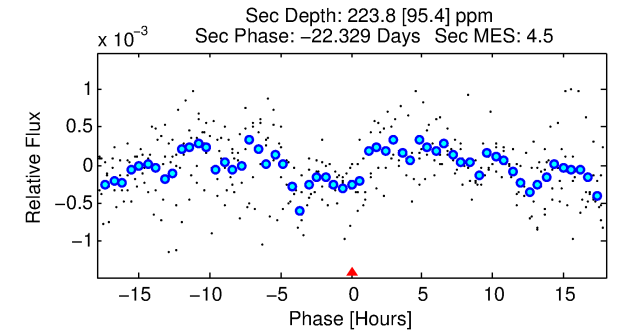
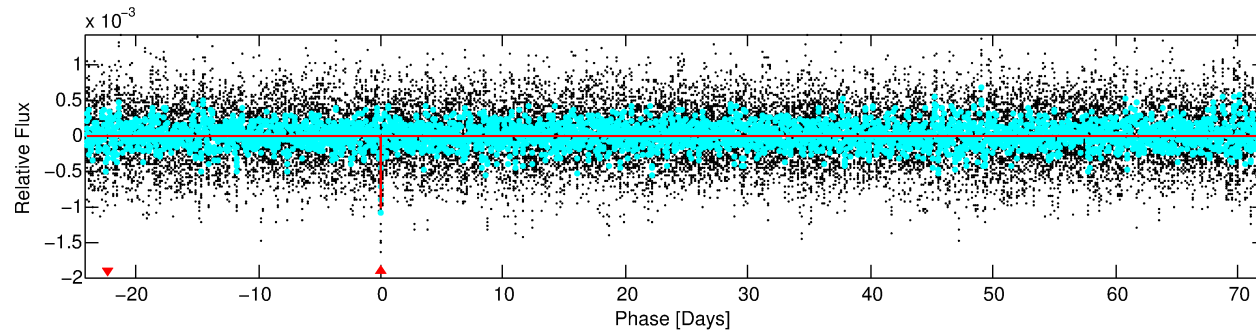
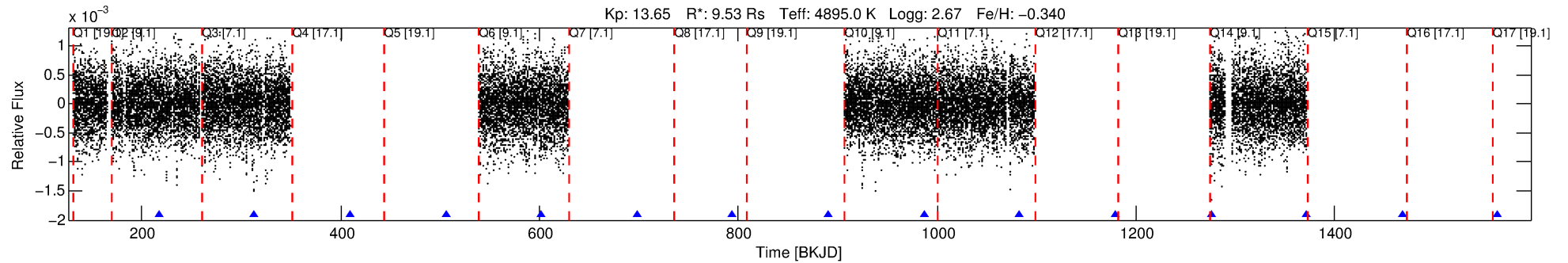
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006795089-01

No Significant Match Found

DV One-Page Summary

KIC: 6795089 Candidate: 1 of 1 Period: 96.232 d



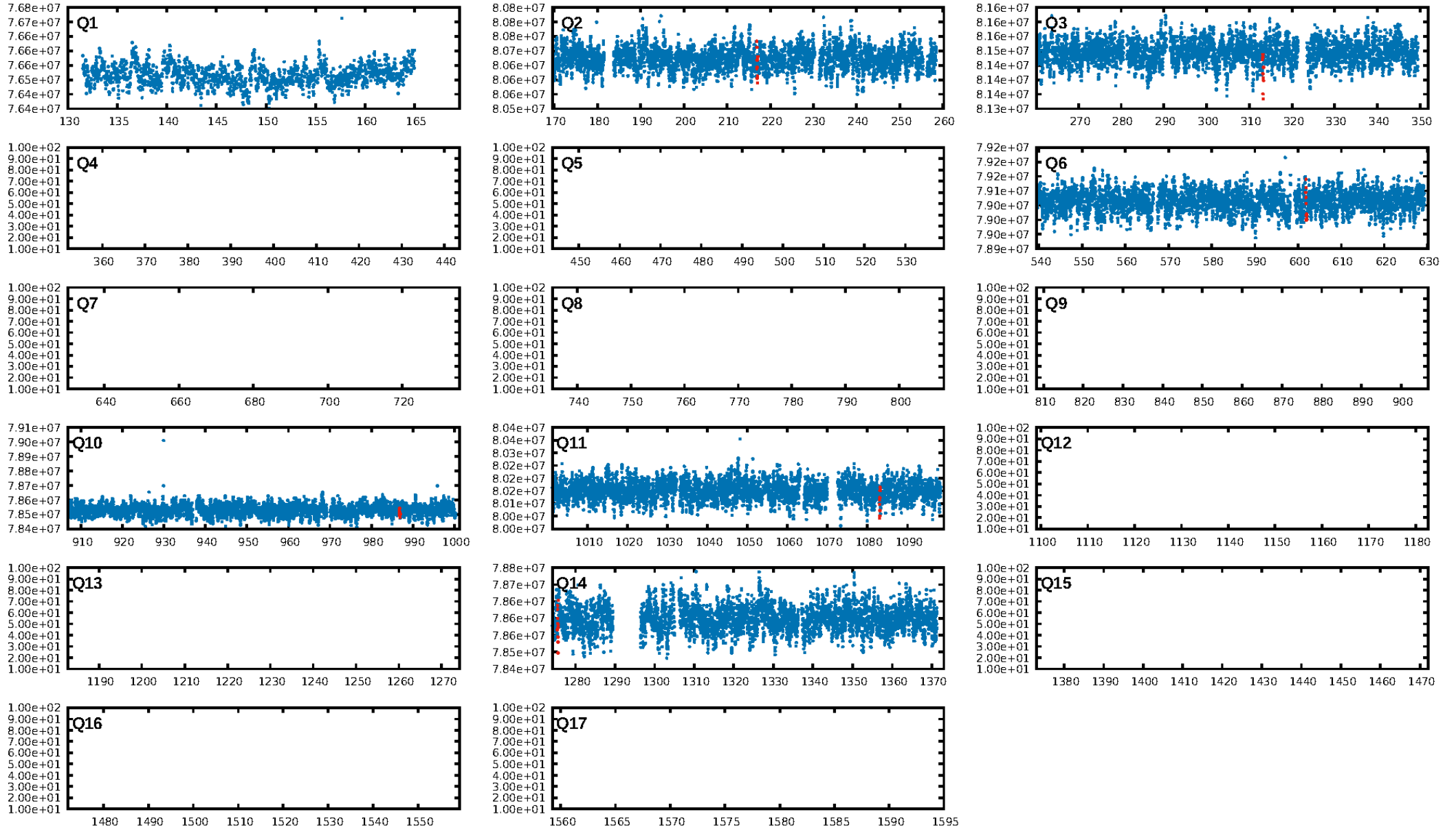
DV Fit Results:

Period = 96.23168 [0.00059] d
Epoch = 216.9886 [0.0043] BKJD
Rp/R* = 0.0381 [0.0035]
a/R* = 106.47 [17.57]
b = 0.94 [0.02]
Seff = 205.20 [34.29]
Teff = 965 [40] K
Rp = 39.63 [8.31] Re
a = 0.4771 [0.0611] AU
Ag = 17.85 [8.61] [1.96 σ]
Teffp = 3067 [364] K [5.75 σ]

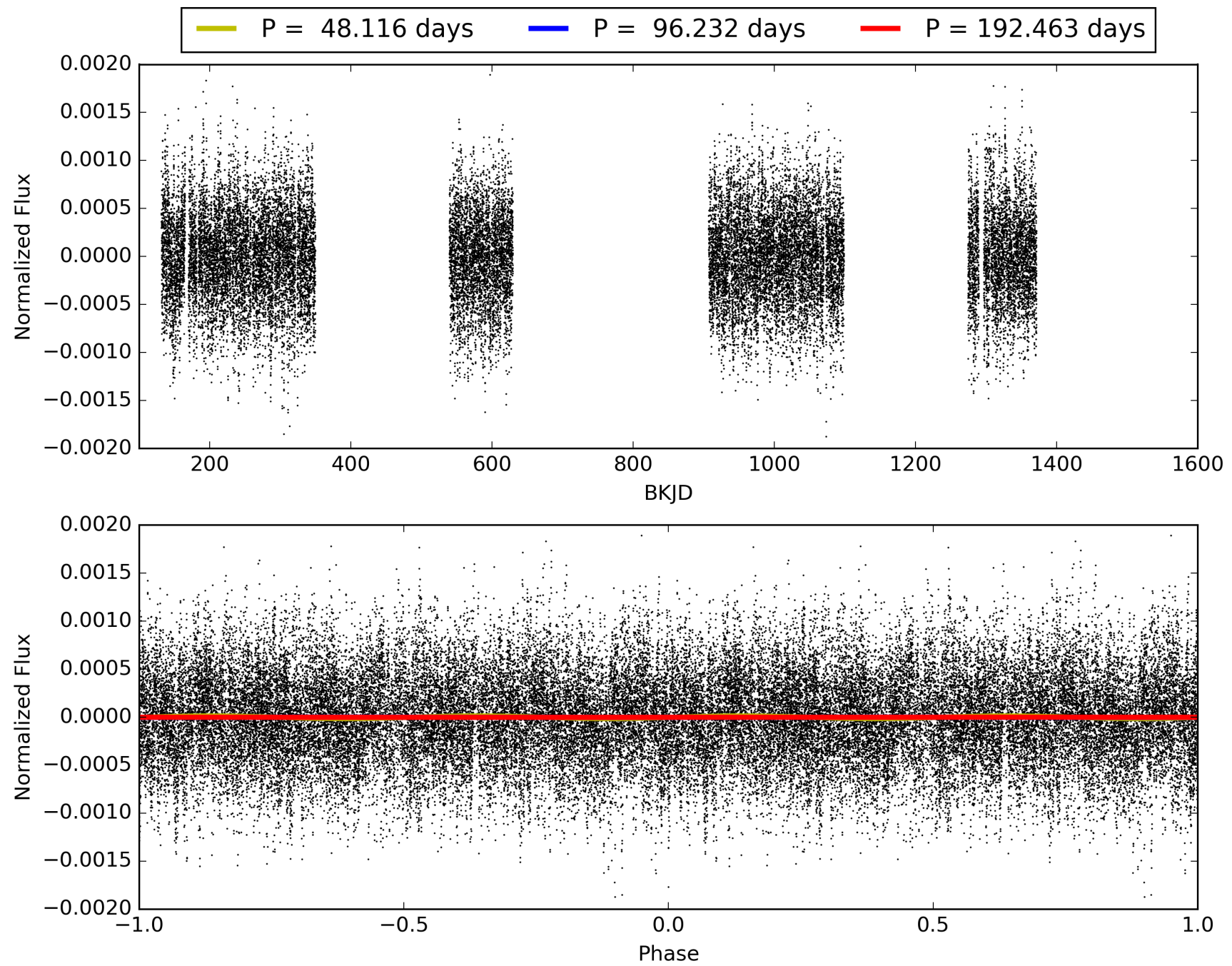
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 18.4%
ModelChiSquareGof-sig: 98.1%
Bootstrap-pfa: 4.51e-13
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 3.338
Centroid-sig: 6.8%
Centroid-so: 0.945 arcsec [2.28 σ]
OotOffset-rm: 0.062 arcsec [0.43 σ]
KicOffset-rm: 0.241 arcsec [1.57 σ]
OotOffset-st: 4/1/0/0 [5]
KicOffset-st: 4/1/0/0 [5]
DiffImageQuality-fgm: 1.00 [5/5]
DiffImageOverlap-fno: 1.00 [5/5]

TCE 006795089-01, PDC Light Curves

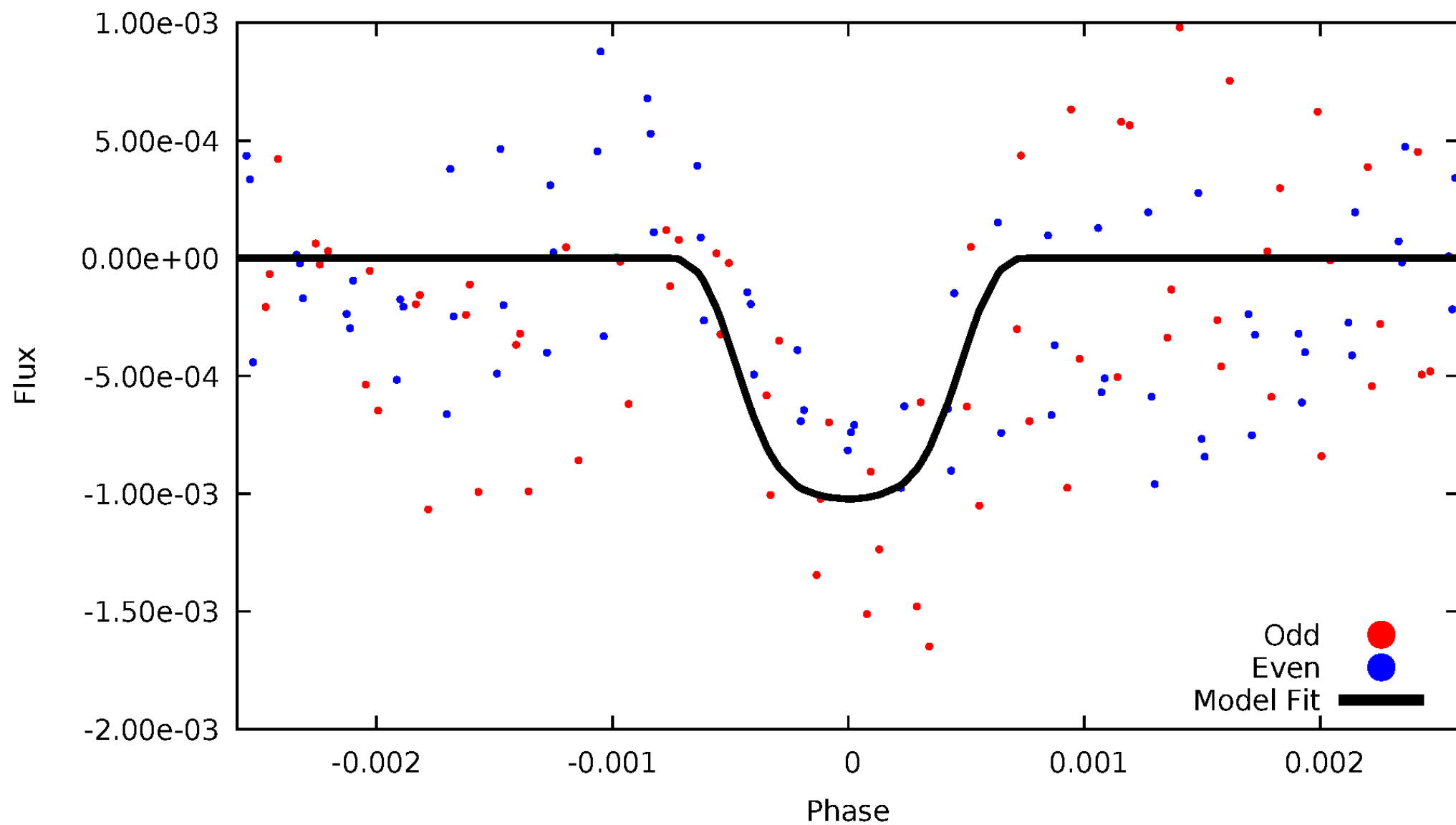


TCE 006795089-01



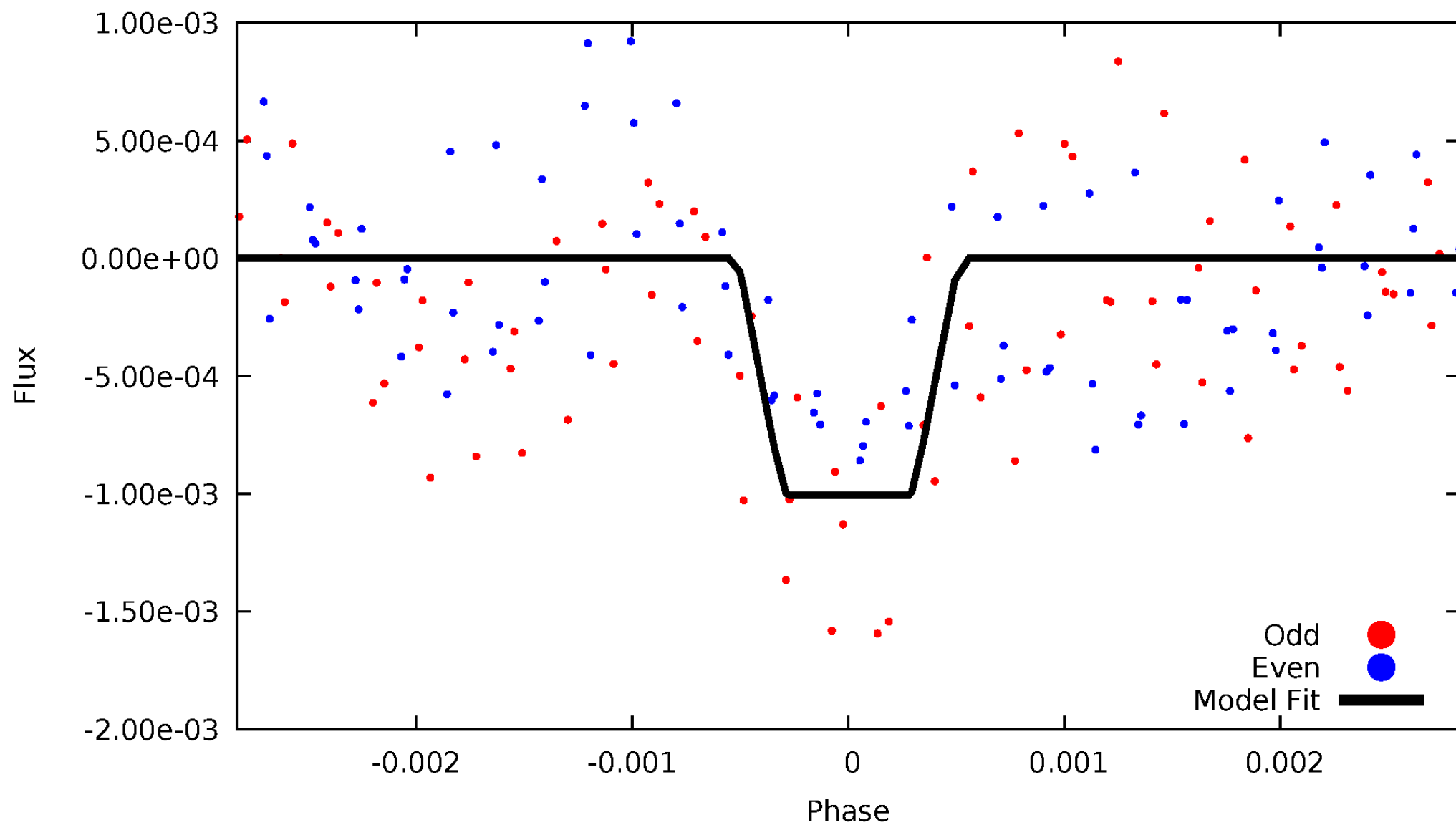
DV Odd/Even

TCE 006795089-01



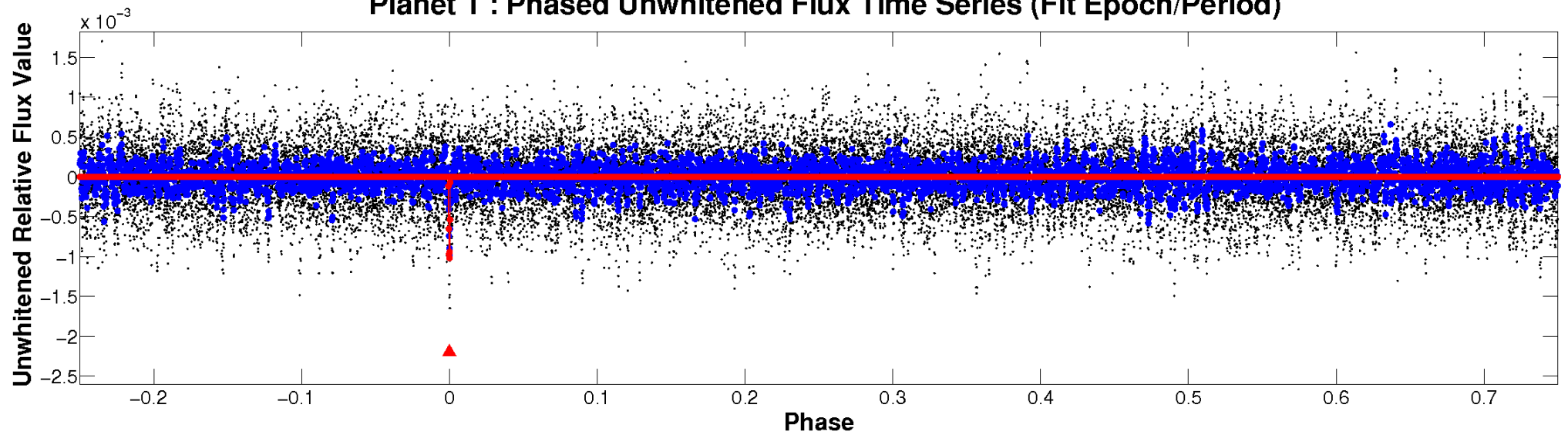
ALT Odd/Even

TCE 006795089-01

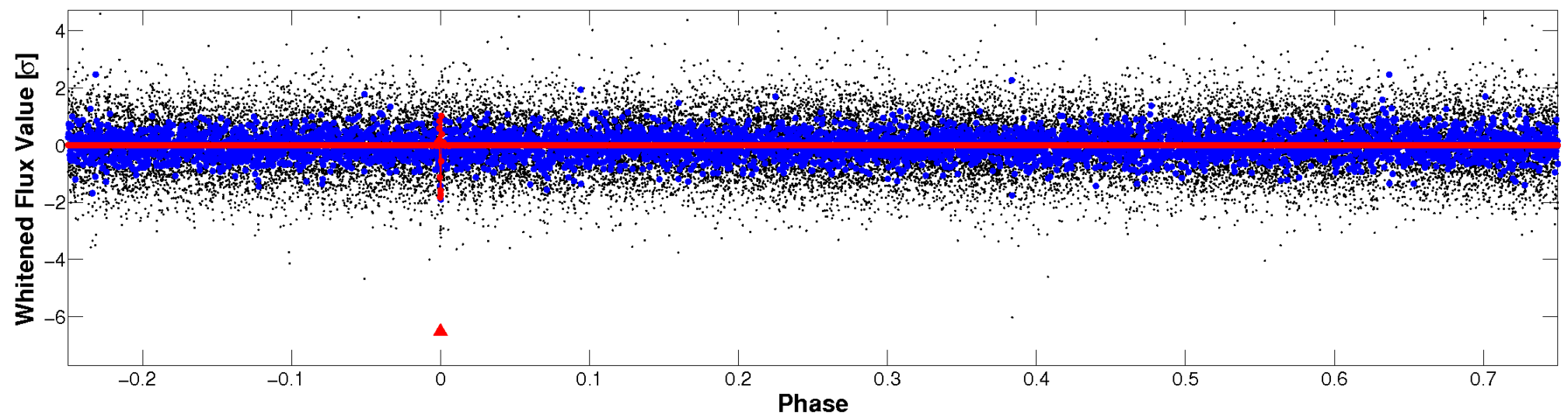


Non-Whitened Vs. Whitened Light Curve

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

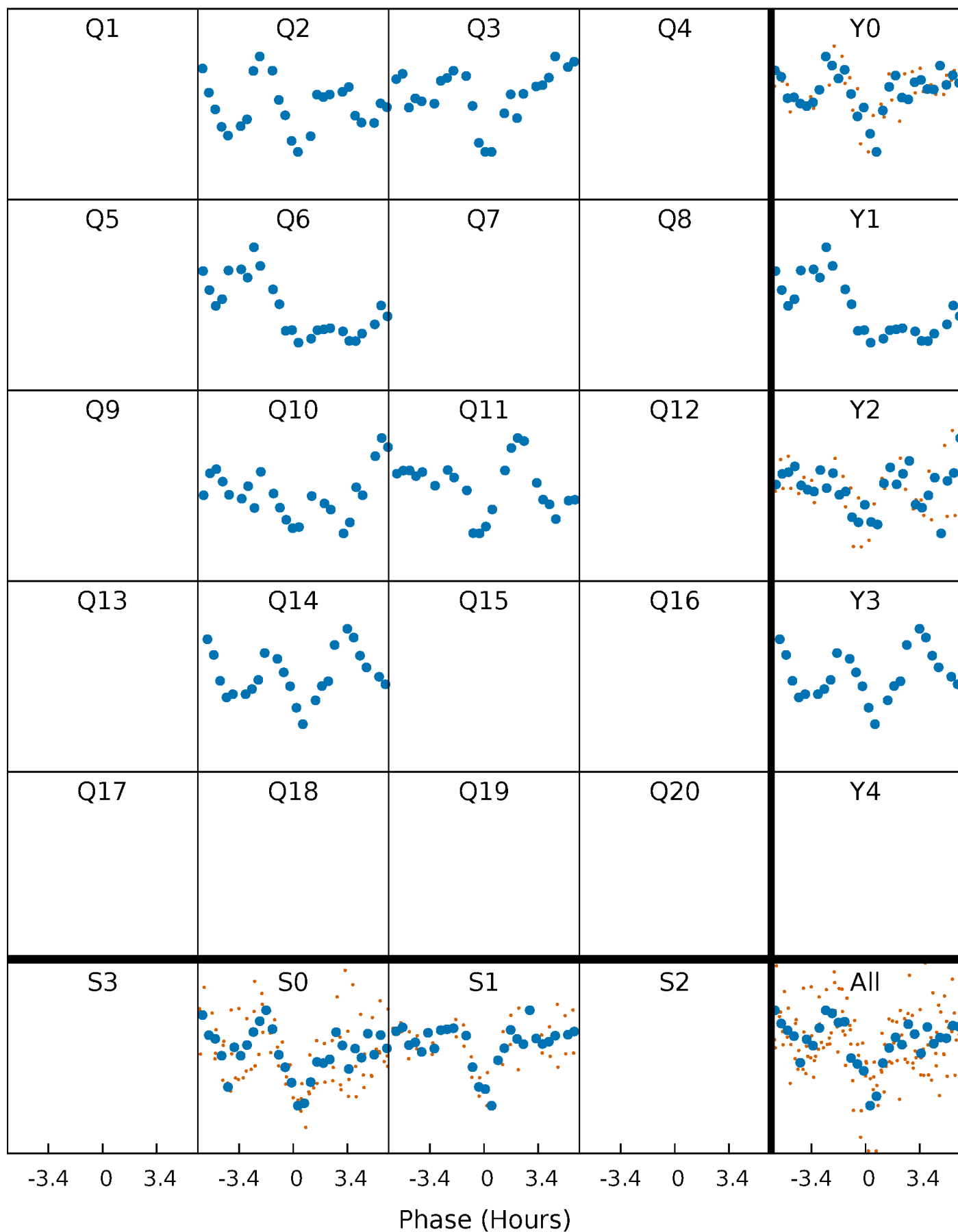


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



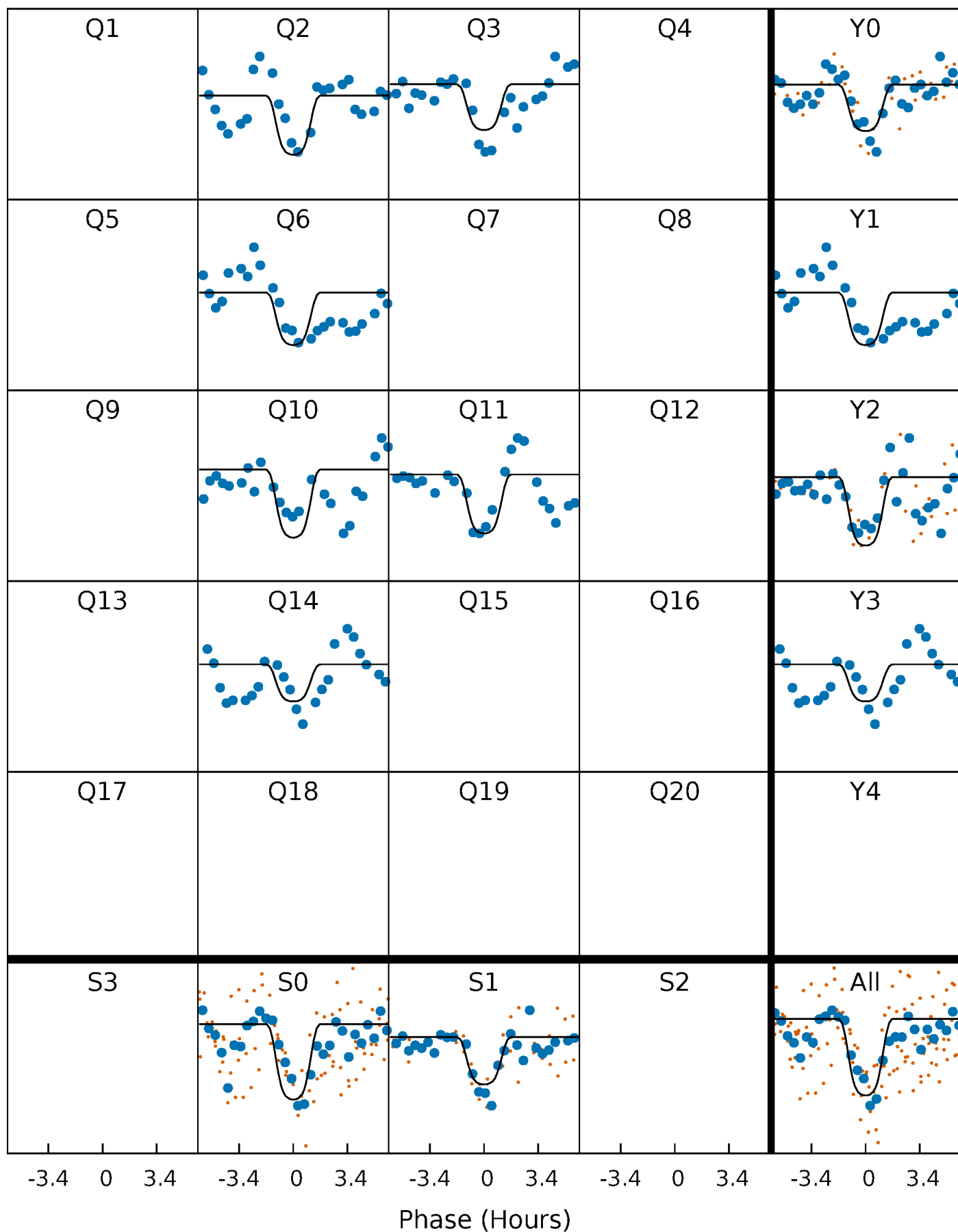
PDC Quarter-Phased Transit Curves

TCE 006795089-01 P= 96.231680 Days $T_0=216.988576$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006795089-01 P= 96.231680 Days $T_0=216.988576$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

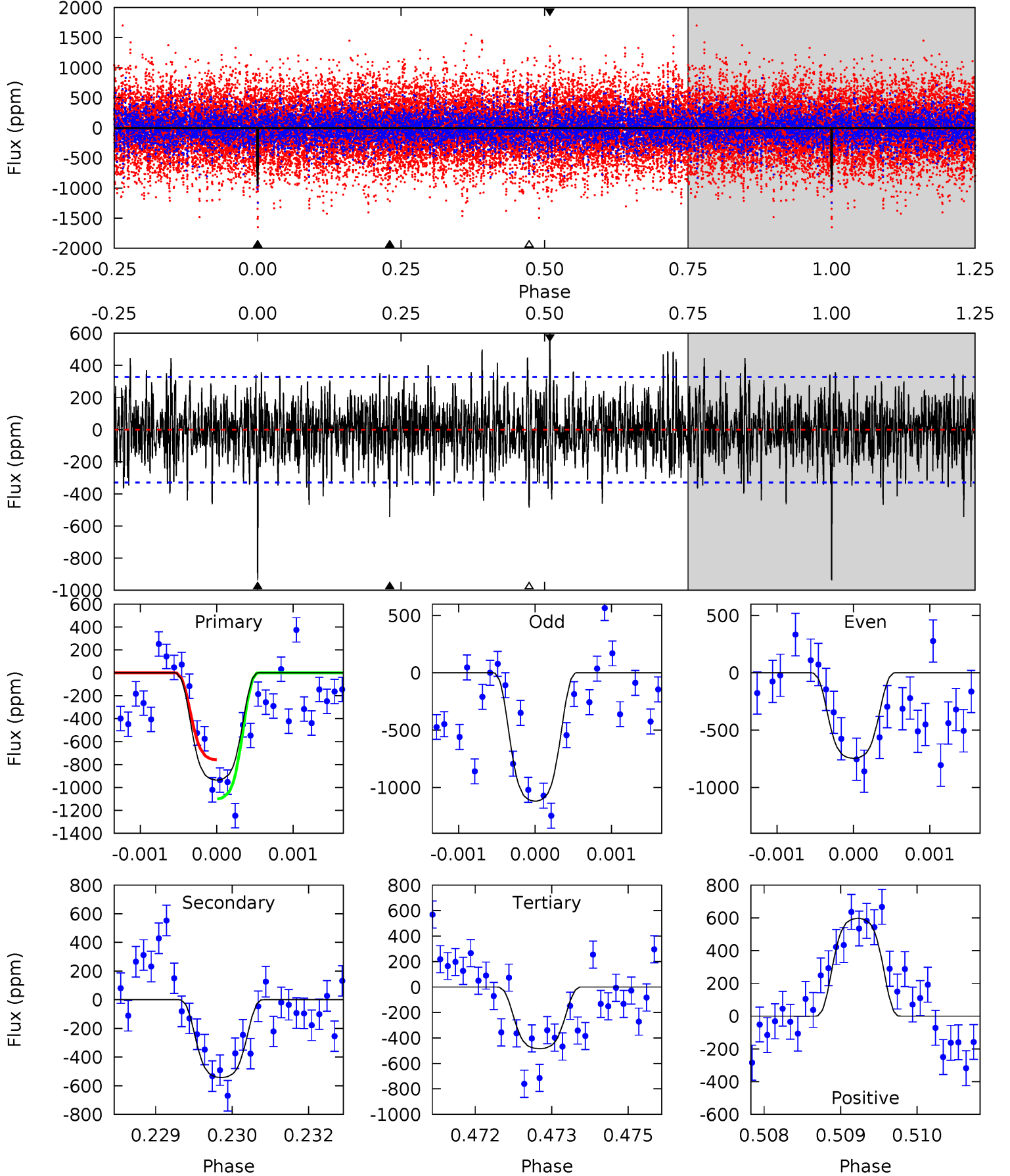
TCE 006795089-01 P= 96.231678 Days $T_0=217.003535$ (BKJD)



DV Model-Shift Uniqueness Test

006795089-01, P = 96.231680 Days, E = 120.756896 Days

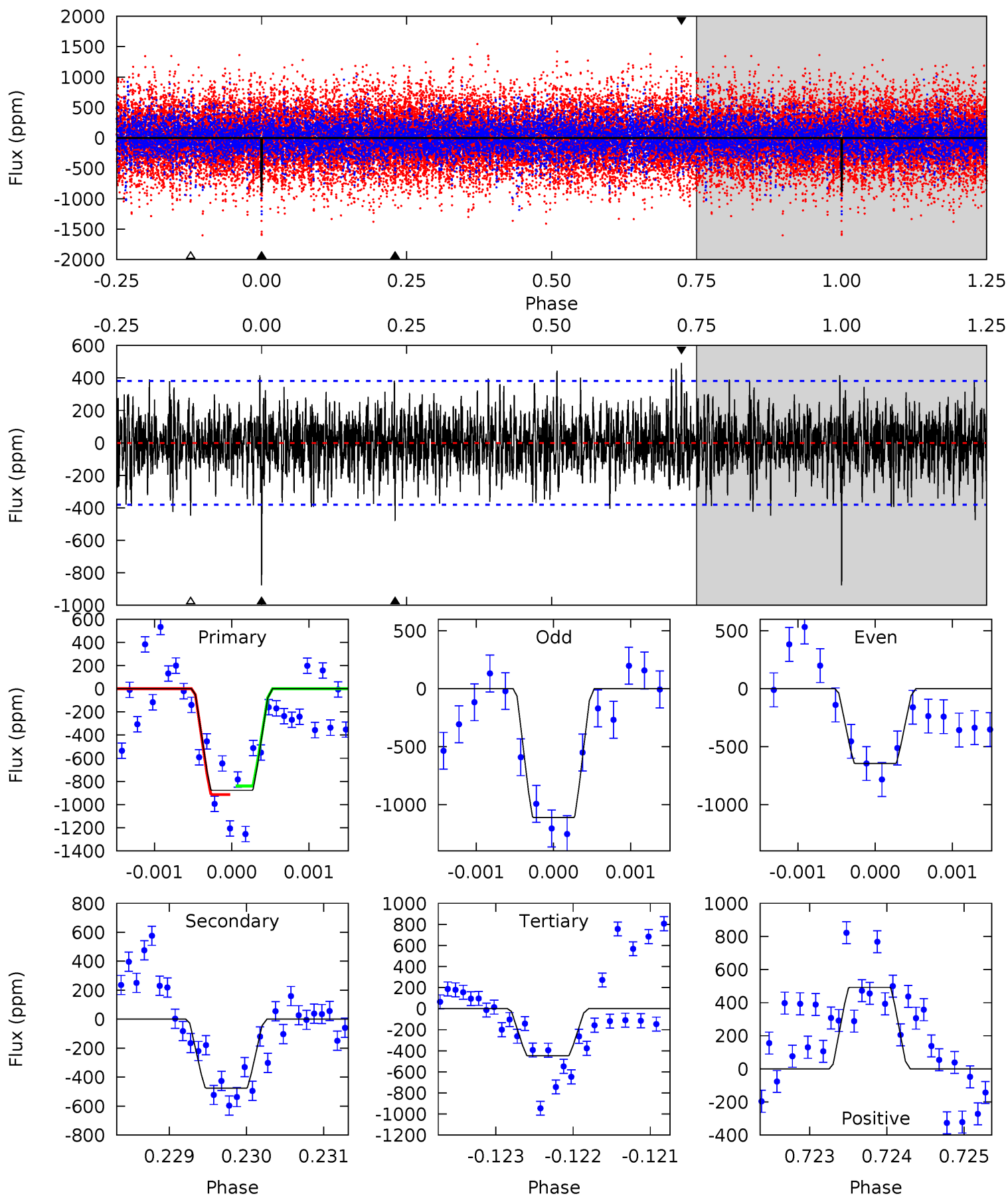
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.4	8.91	7.95	9.80	5.39	3.20	2.33	7.42	5.57	0.96	-0.89	3.07	1.05	0.39	2.79



Alt Model-Shift Uniqueness Test

006795089-01, P = 96.231678 Days, E = 120.771857 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.5	6.80	6.39	7.03	5.44	3.27	1.90	6.13	5.49	0.40	-0.23	3.33	1.18	0.36	0.52



Stellar Parameters For KIC 006795089

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4895^{+98}_{-122}	$2.674^{+0.030}_{-0.030}$	$-0.340^{+0.250}_{-0.250}$	$9.529^{+0.771}_{-1.800}$	$1.563^{+0.272}_{-0.544}$	$0.003^{+0.001}_{-0.000}$
	+2%/-2%	+1%/-1%	+74%/-74%	+8%/-19%	+17%/-35%	+27%/-11%
Source	PHO1	AST9	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 006795089-01 / KOI 7792.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-543 ± 61	$40.26^{+4.65}_{-5.47}$	1351^{+37}_{-41}	4048^{+180}_{-178}	43^{+11}_{-9}
Alt.	-476 ± 70	$33.24^{+4.70}_{-4.80}$	1350^{+37}_{-40}	4215^{+256}_{-209}	54^{+19}_{-12}

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

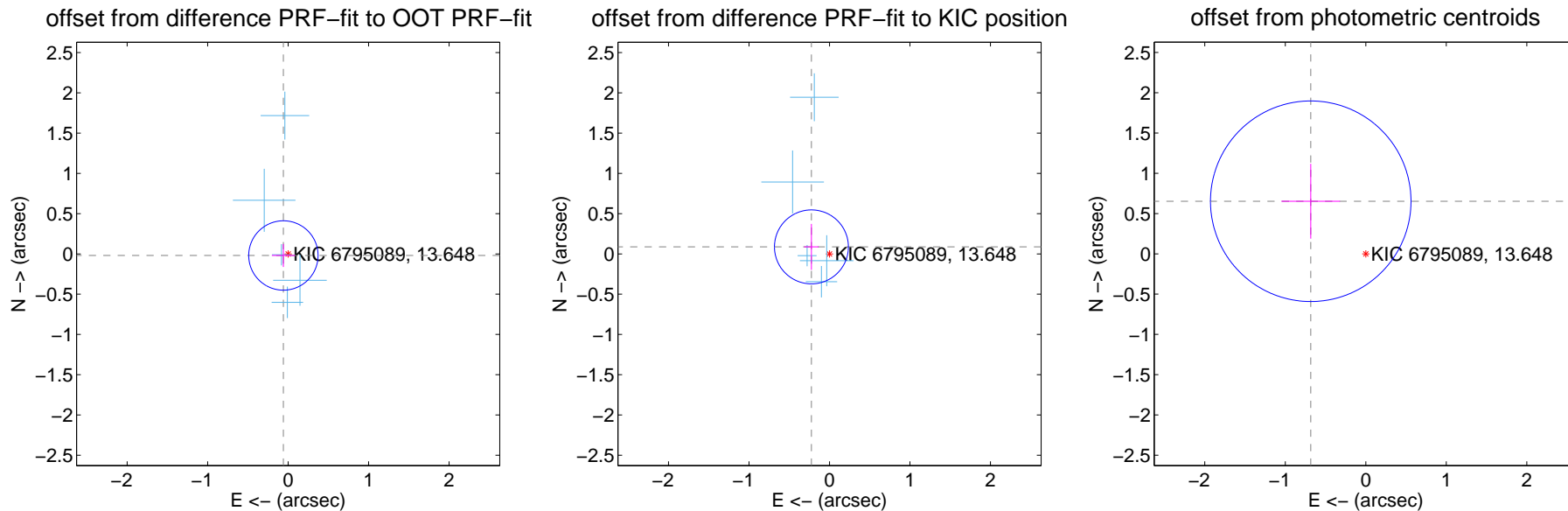
DV Centroid Data

Supplemental centroid analysis for 006795089-01. Kepler magnitude: 13.65. Transit SNR 9.01

There are 5 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.062 ± 0.144	0.43	0.059 ± 0.144	-0.020 ± 0.143
PRF-fit source offset from KIC position	0.241 ± 0.153	1.57	0.224 ± 0.091	0.087 ± 0.285
photometric centroid source offset	0.95 ± 0.42	2.28	0.68 ± 0.36	0.65 ± 0.46



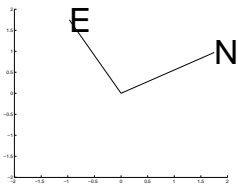
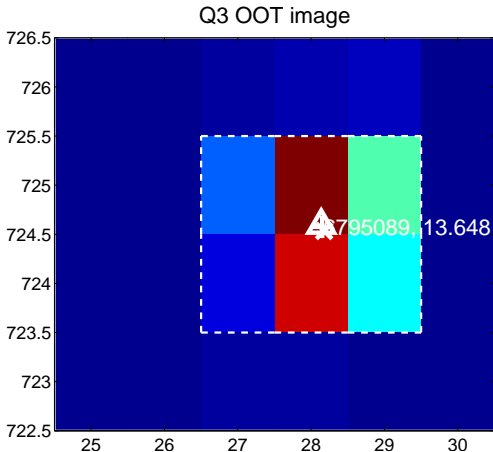
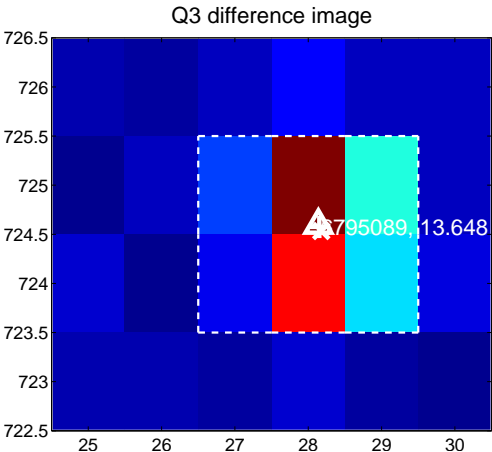
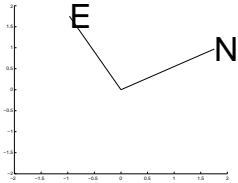
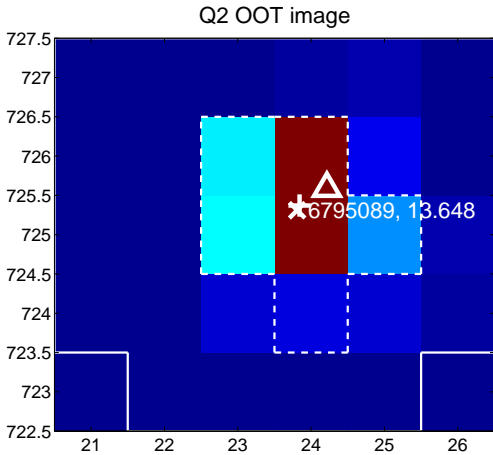
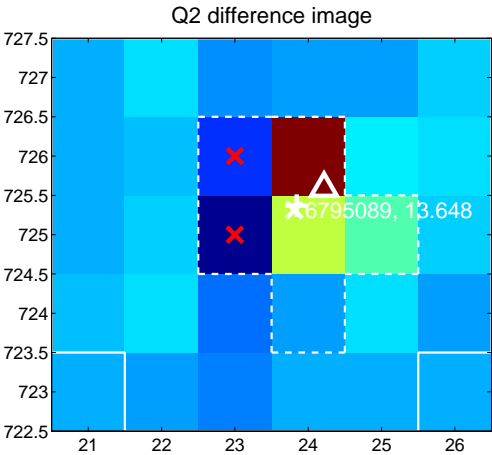
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

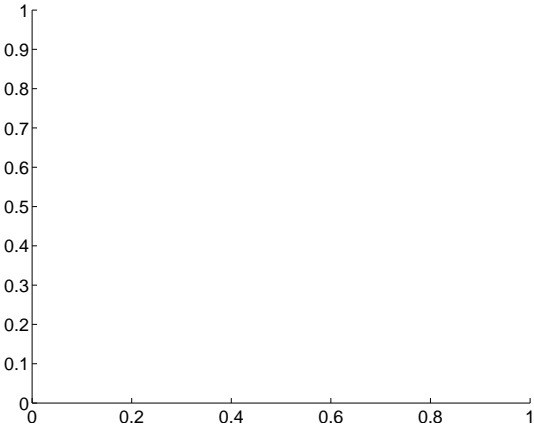
Q1 no difference image



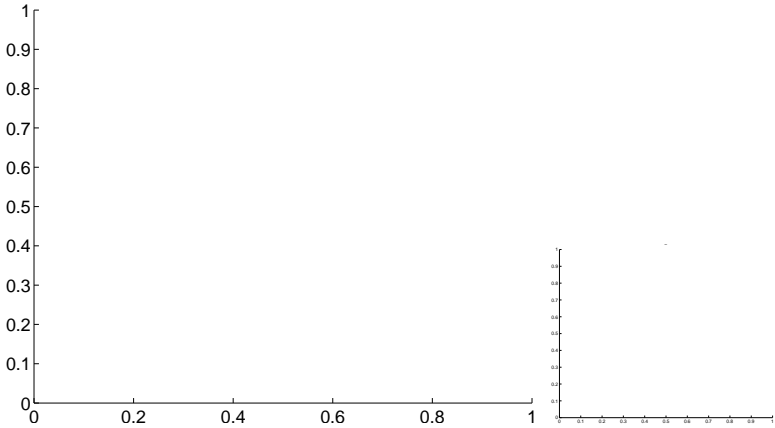
Q1 no OOT image



Q4 no difference image



Q4 no OOT image

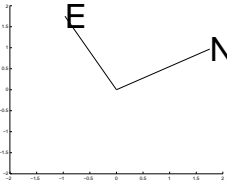
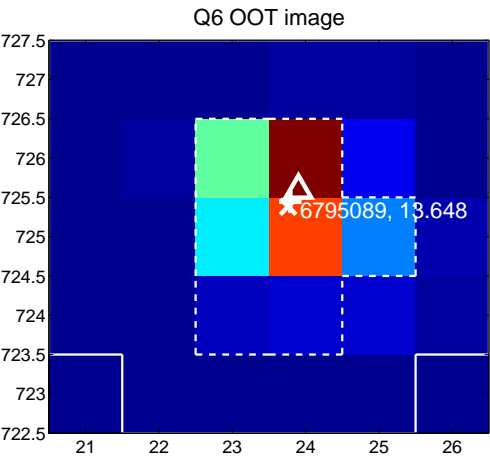
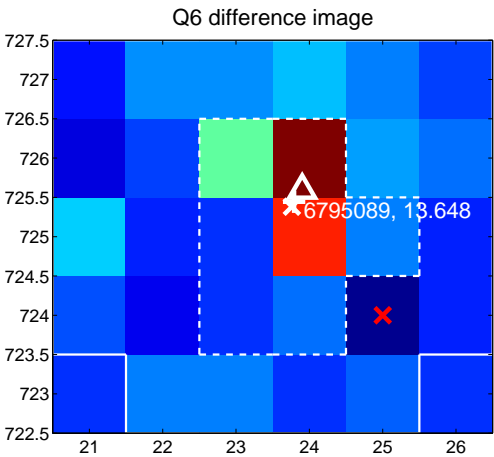


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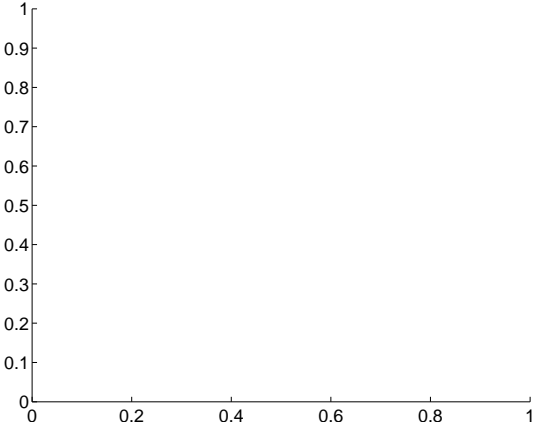
Q5 no difference image



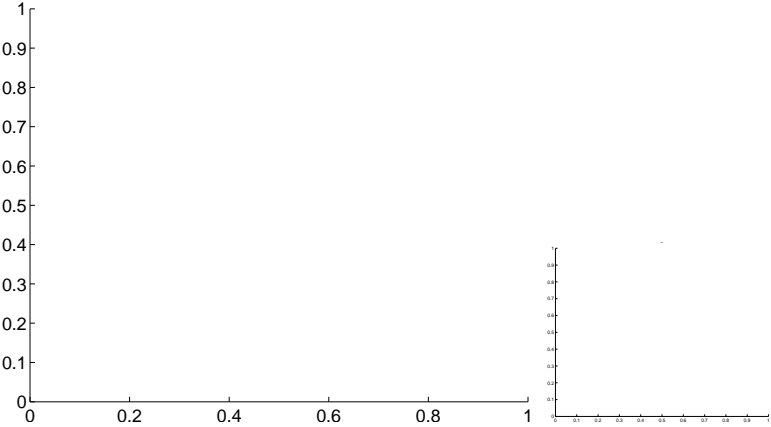
Q5 no OOT image



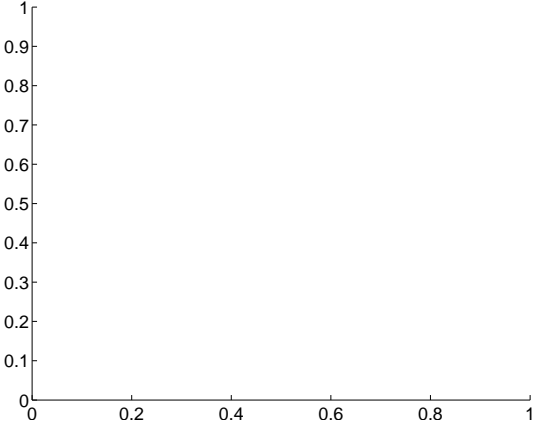
Q7 no difference image



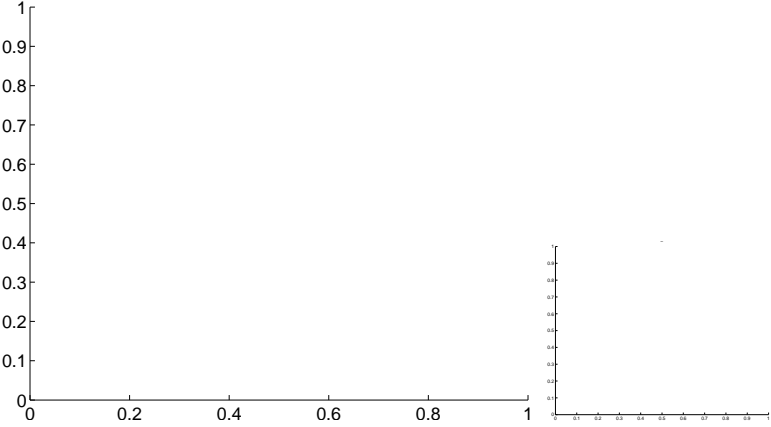
Q7 no OOT image



Q8 no difference image



Q8 no OOT image

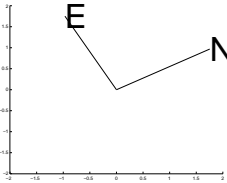
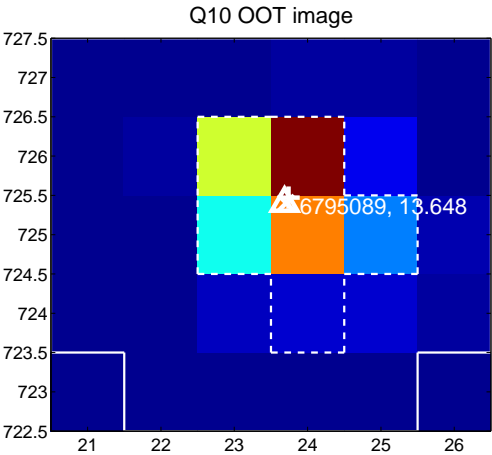
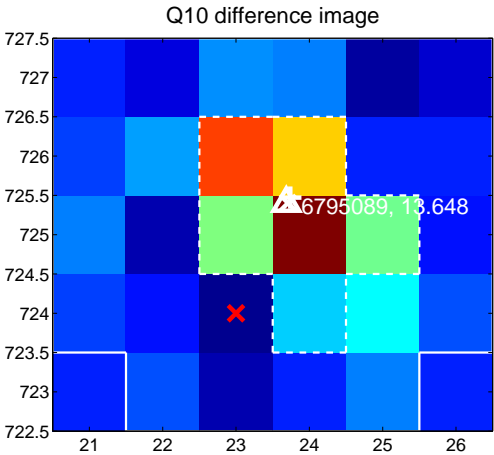


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

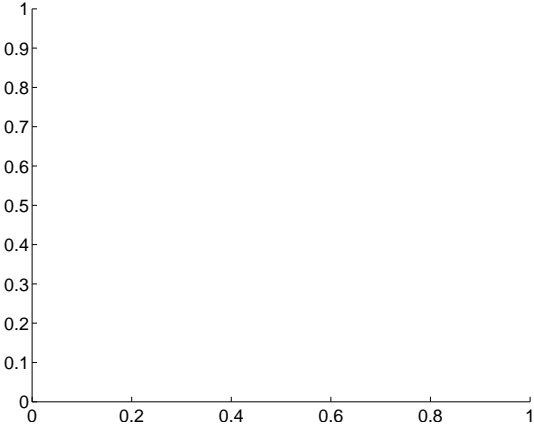
Q9 no difference image



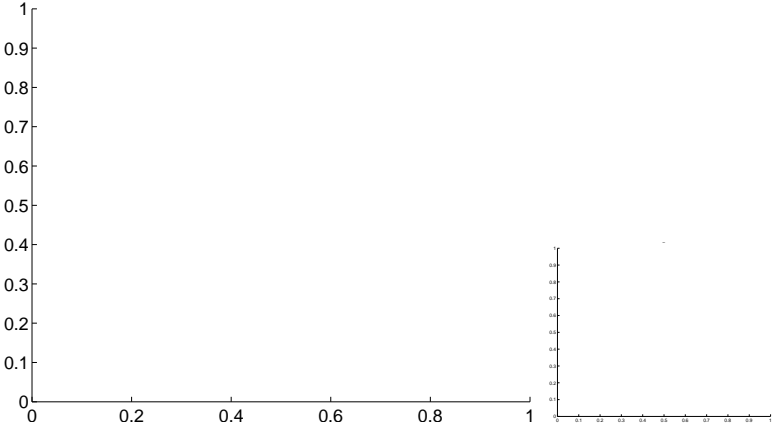
Q9 no OOT image



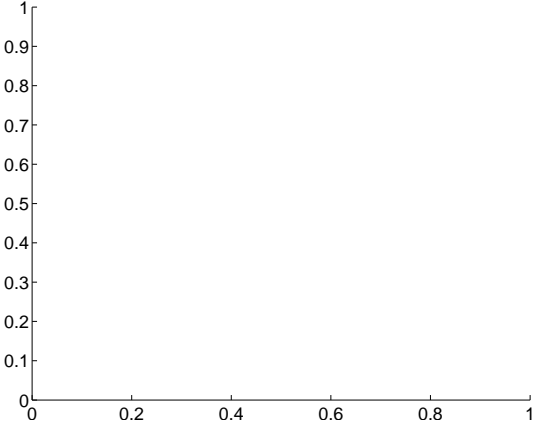
Q11 no difference image



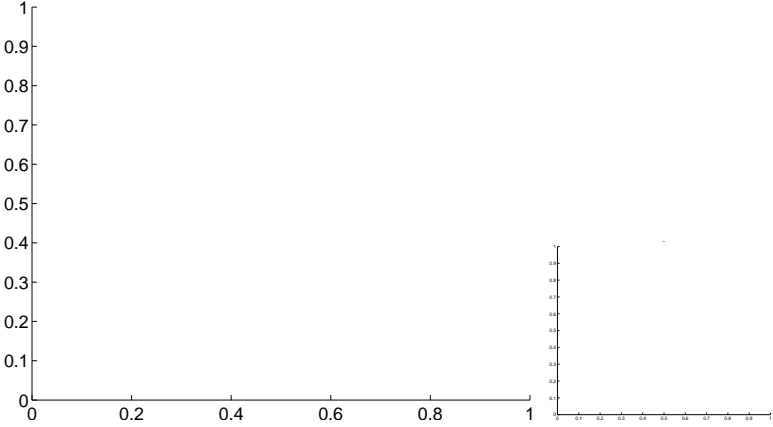
Q11 no OOT image



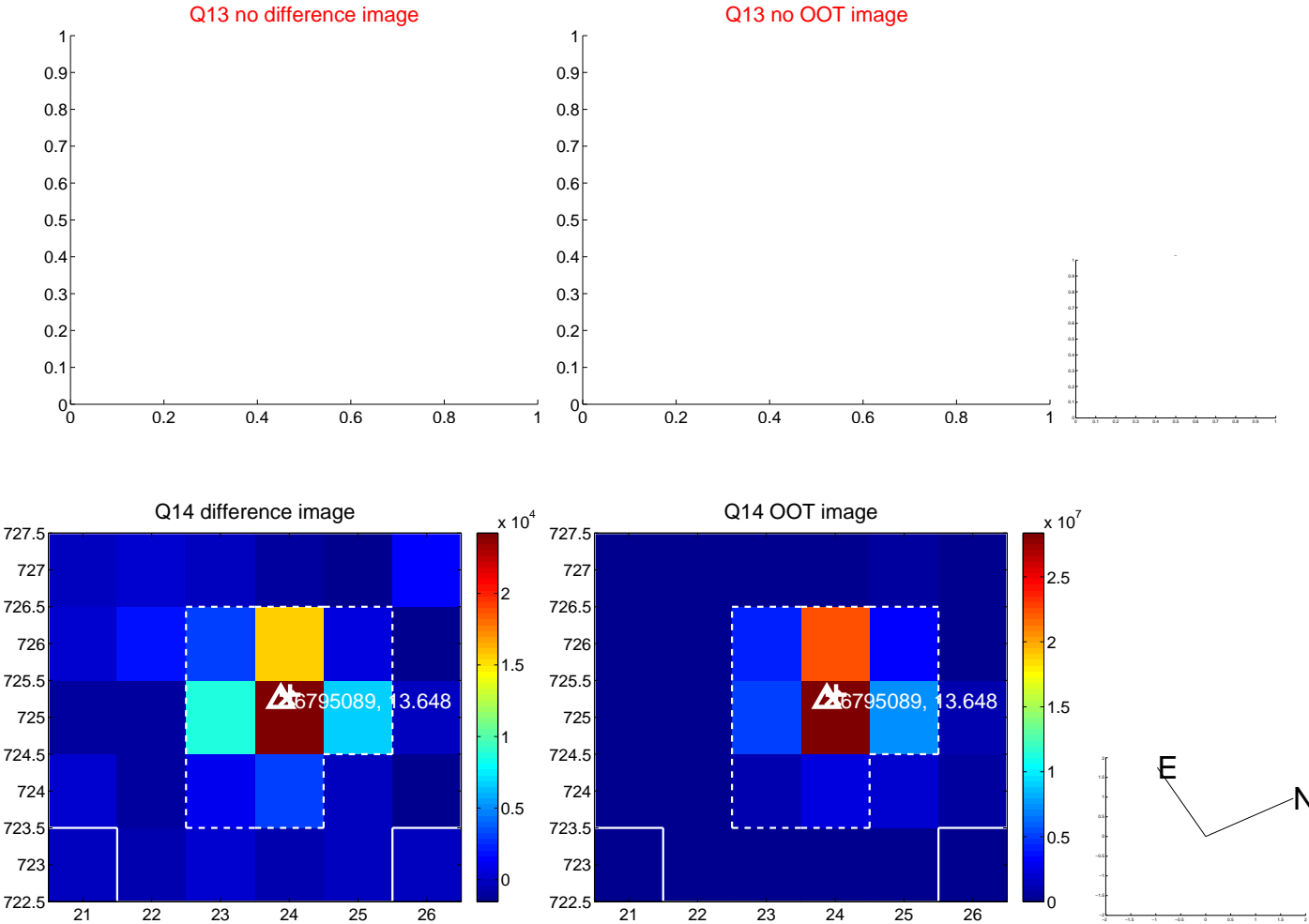
Q12 no difference image



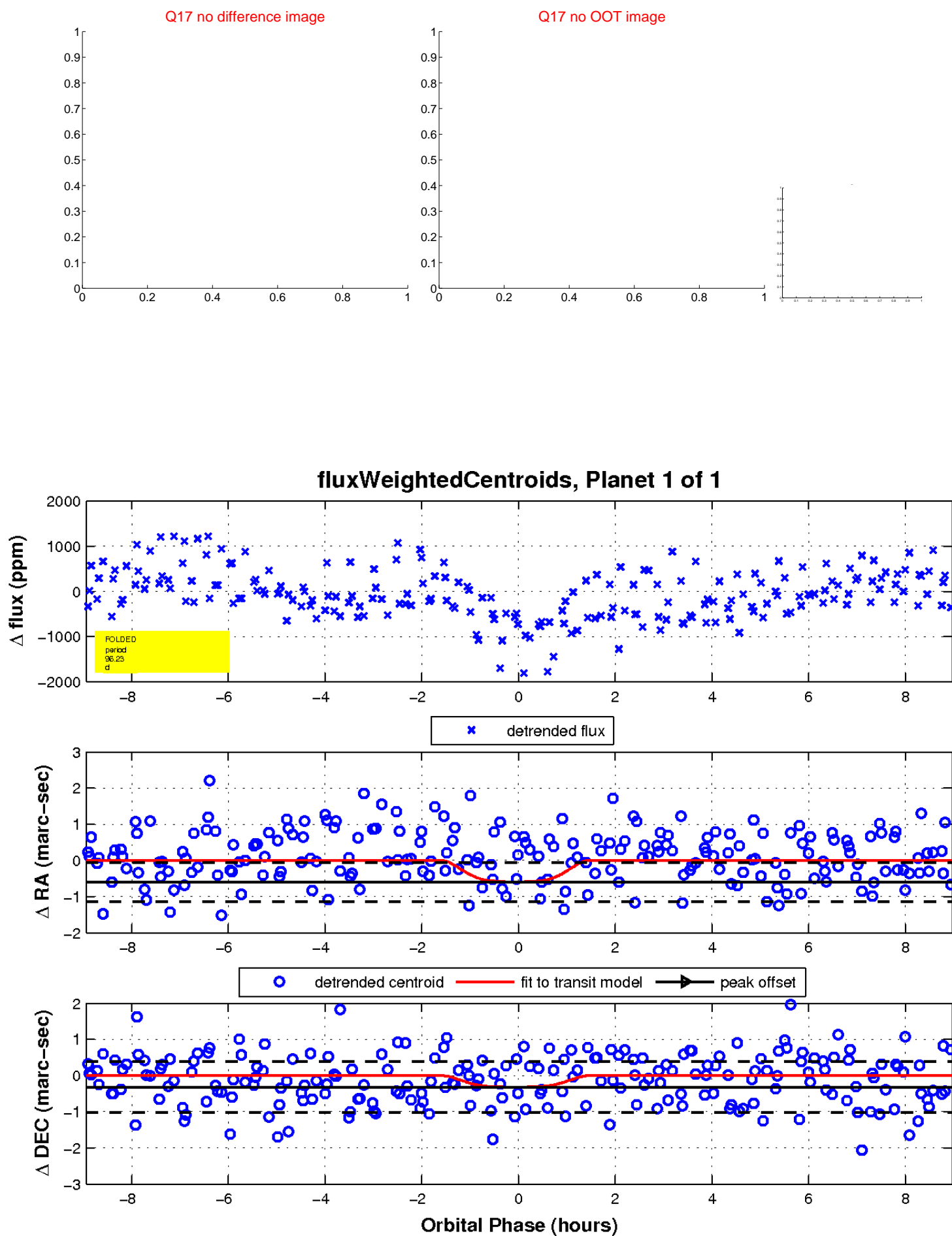
Q12 no OOT image



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



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



UKIRT Image

Declination

