

KIC 007895129

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})
007895129-01	OBS	No	408.276967	368.753153	263.3	5.625	8.3	5.9	1.17	6160	2.13	1.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007895129-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

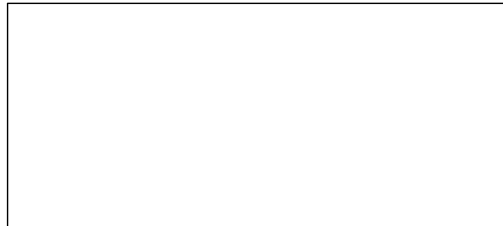
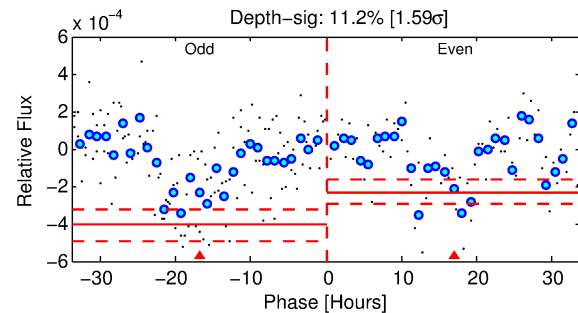
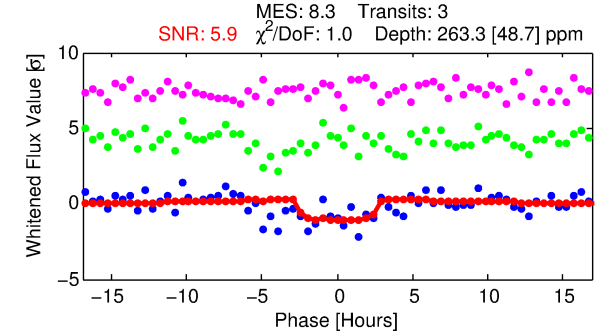
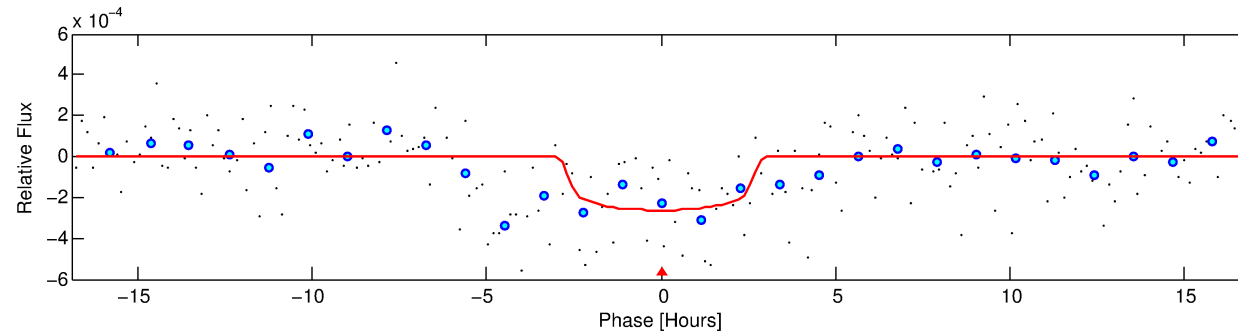
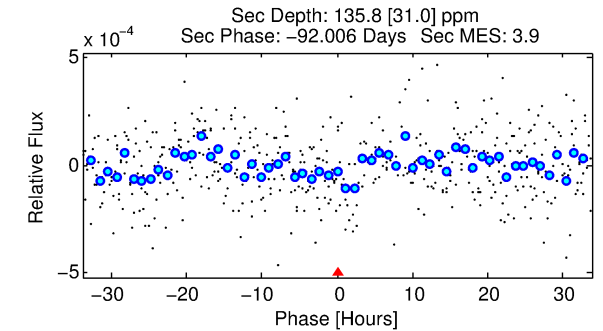
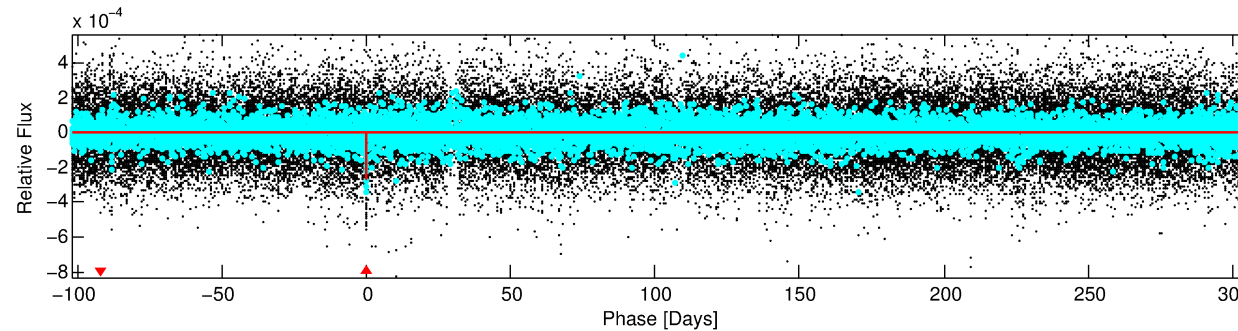
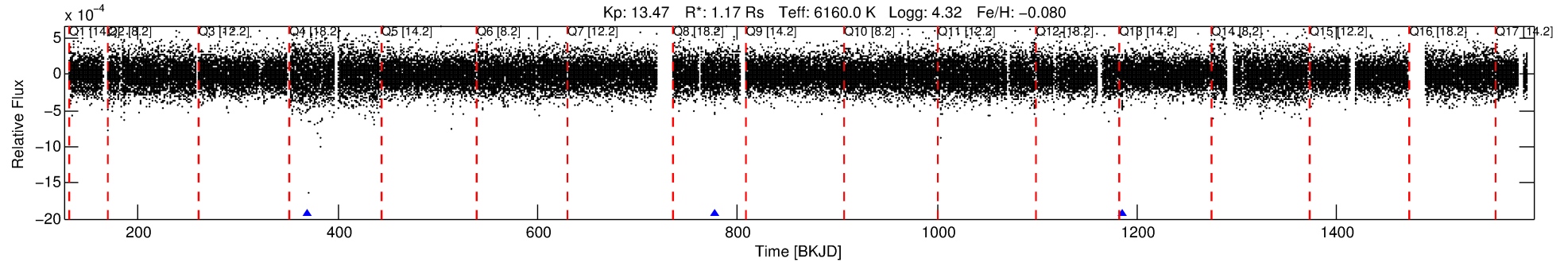
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007895129-01

No Significant Match Found

DV One-Page Summary

KIC: 7895129 Candidate: 1 of 1 Period: 408.277 d



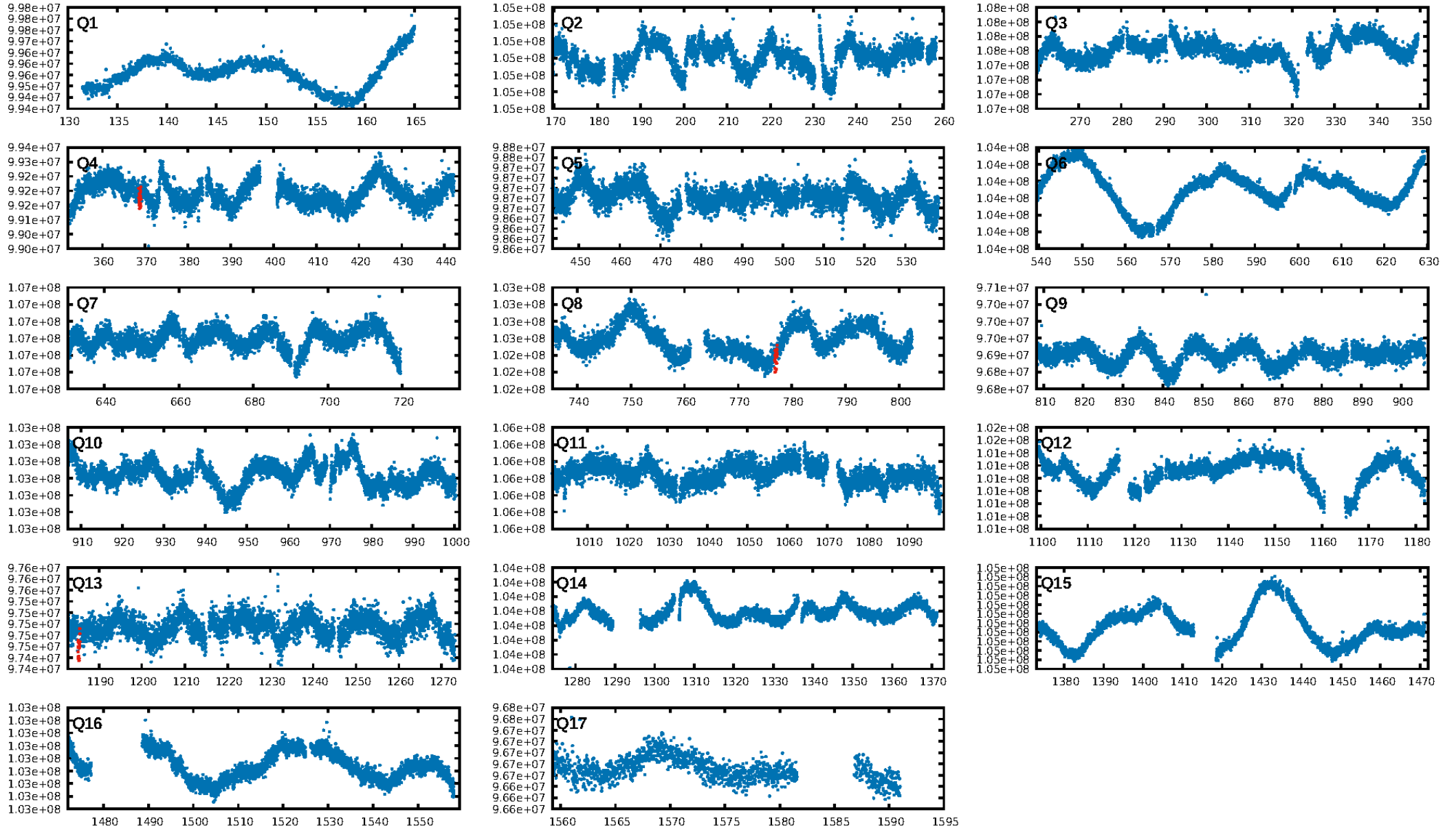
DV Fit Results:

Period = 408.27697 [0.00988] d
Epoch = 368.7532 [0.0150] BKJD
Rp/R* = 0.0167 [0.0145]
a/R* = 328.76 [1453.18]
b = 0.83 [1.73]
Seff = 1.47 [0.42]
Teq = 281 [20] K
Rp = 2.13 [1.91] Re
a = 1.0957 [0.1949] AU
Ag = 19803.70 [35186.25] [0.56σ]
Teffp = 5153 [2270] K [2.15σ]

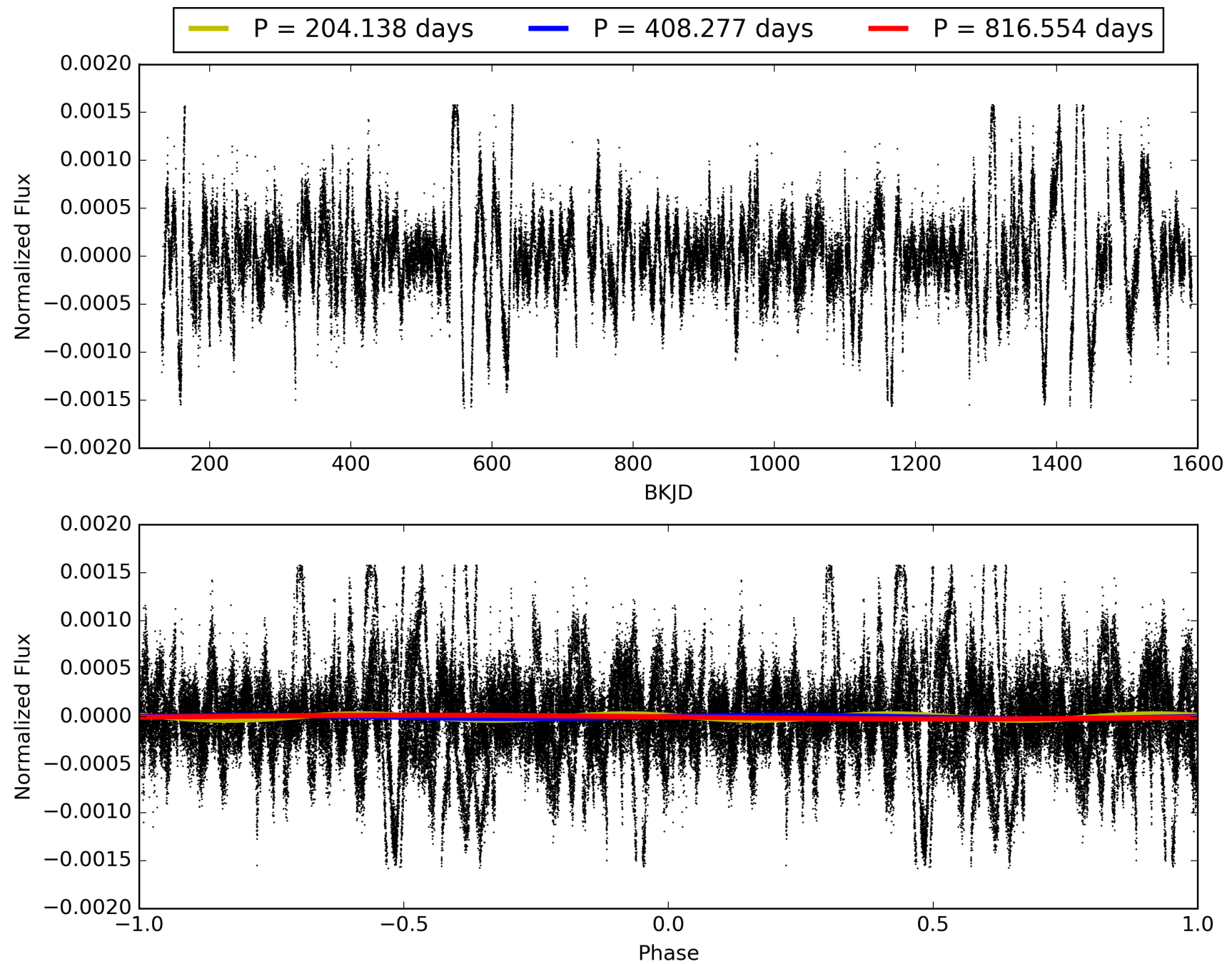
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 4.9%
ModelChiSquareGof-sig: 82.1%
Bootstrap-pfa: 2.77e-09
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.165
Centroid-sig: 60.9%
Centroid-so: 1.281 arcsec [0.74σ]
OotOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-rm: N/A
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [2/2]

TCE 007895129-01, PDC Light Curves

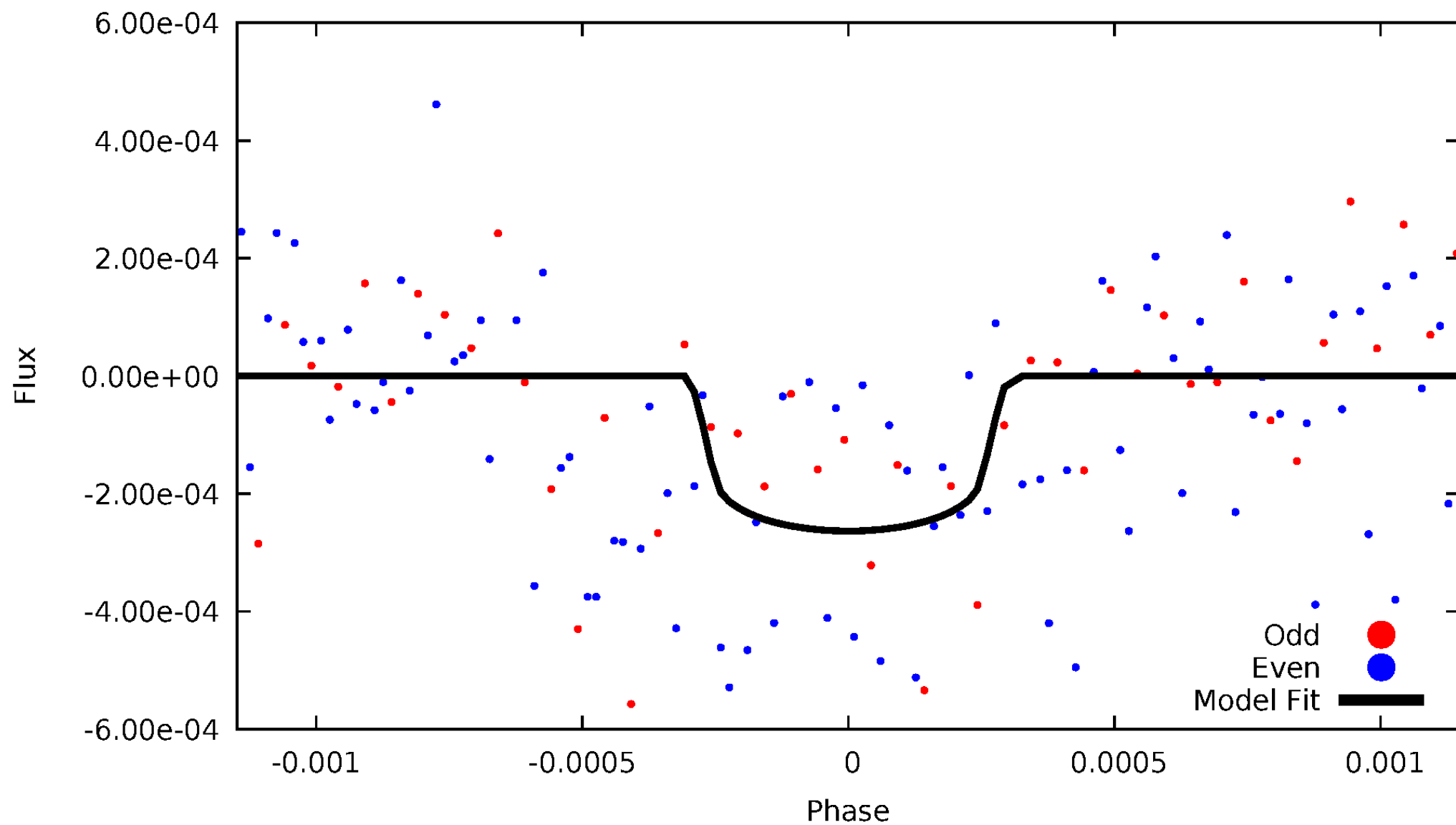


TCE 007895129-01



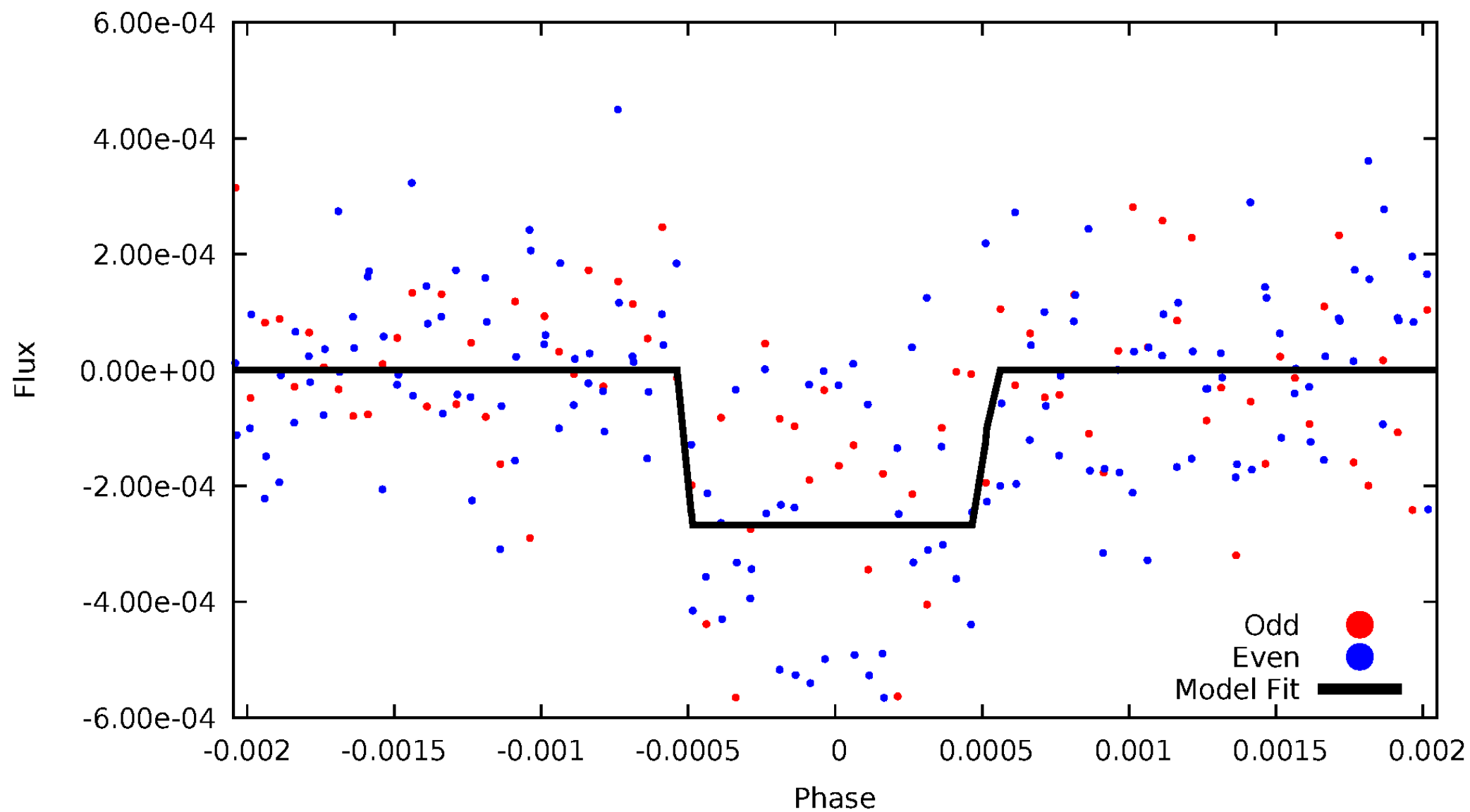
DV Odd/Even

TCE 007895129-01



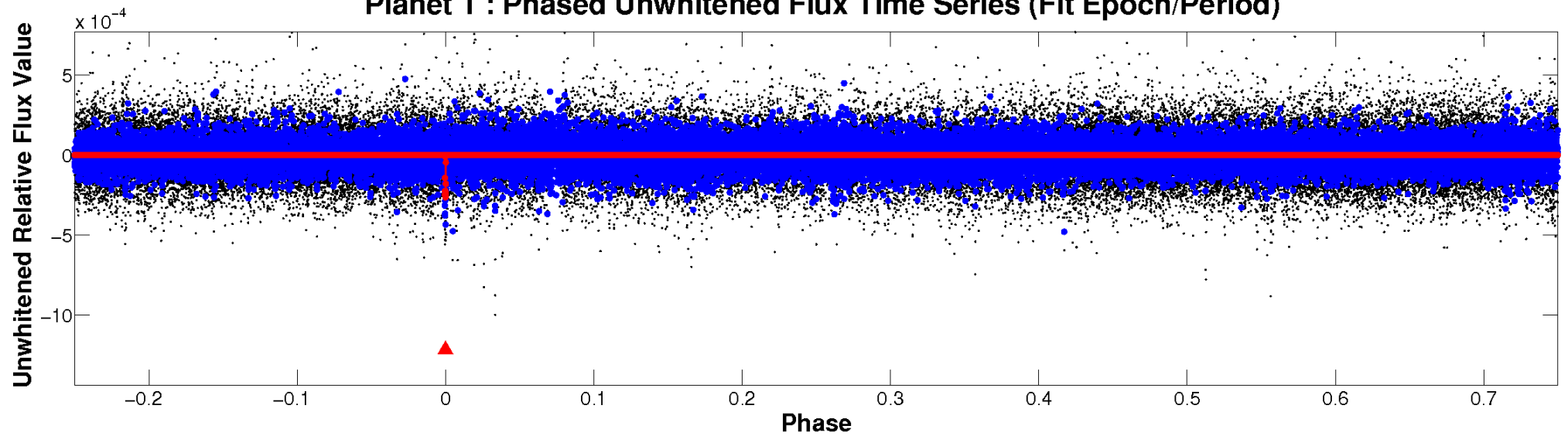
ALT Odd/Even

TCE 007895129-01

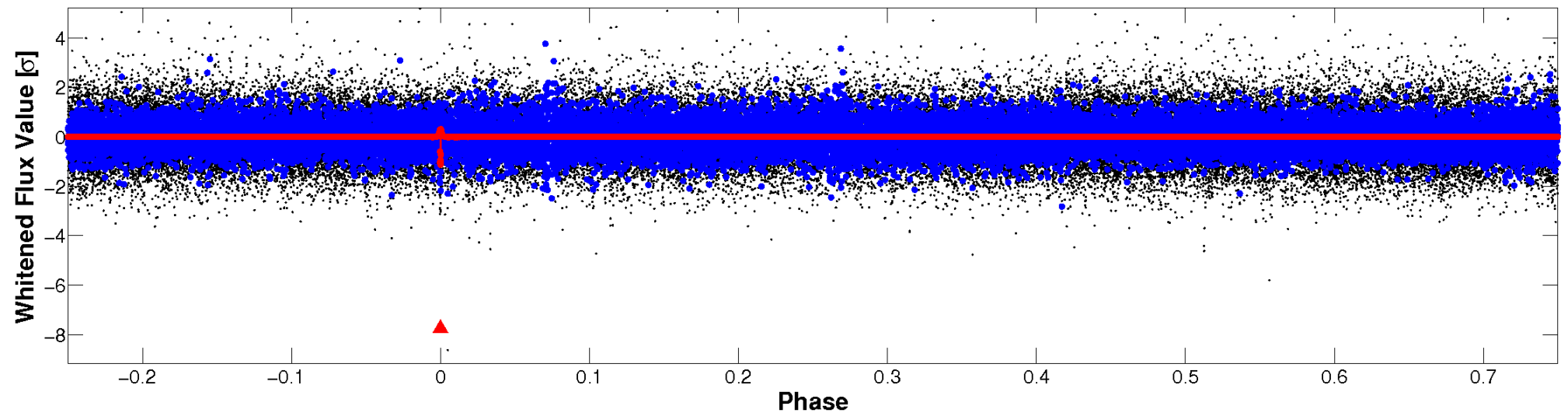


Non-Whitened Vs. Whitened Light Curve

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

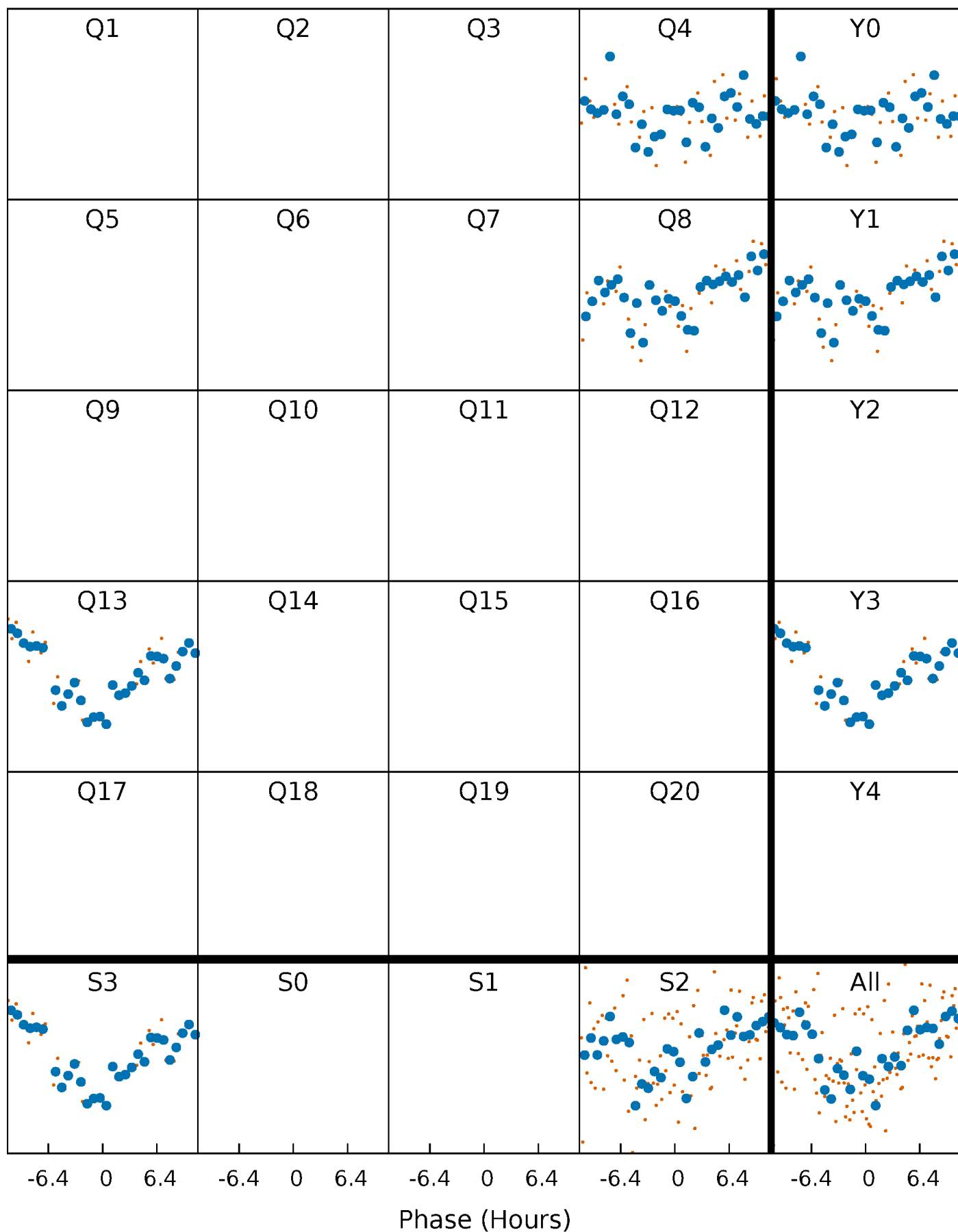


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 007895129-01 P=408.276967 Days $T_0=368.753153$ (BKJD)



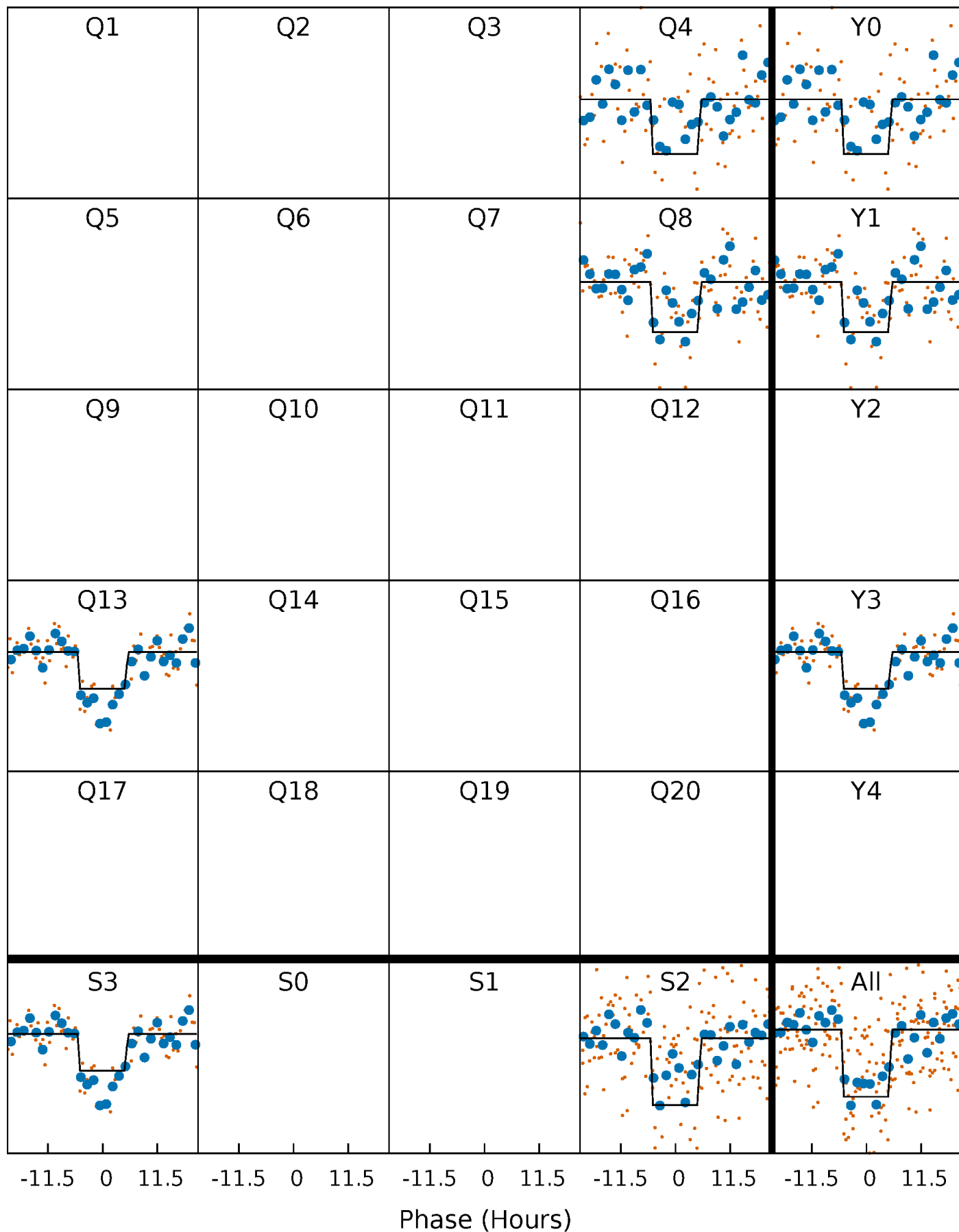
DV Quarter-Phased Transit Curves

TCE 007895129-01 P=408.276967 Days $T_0=368.753153$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

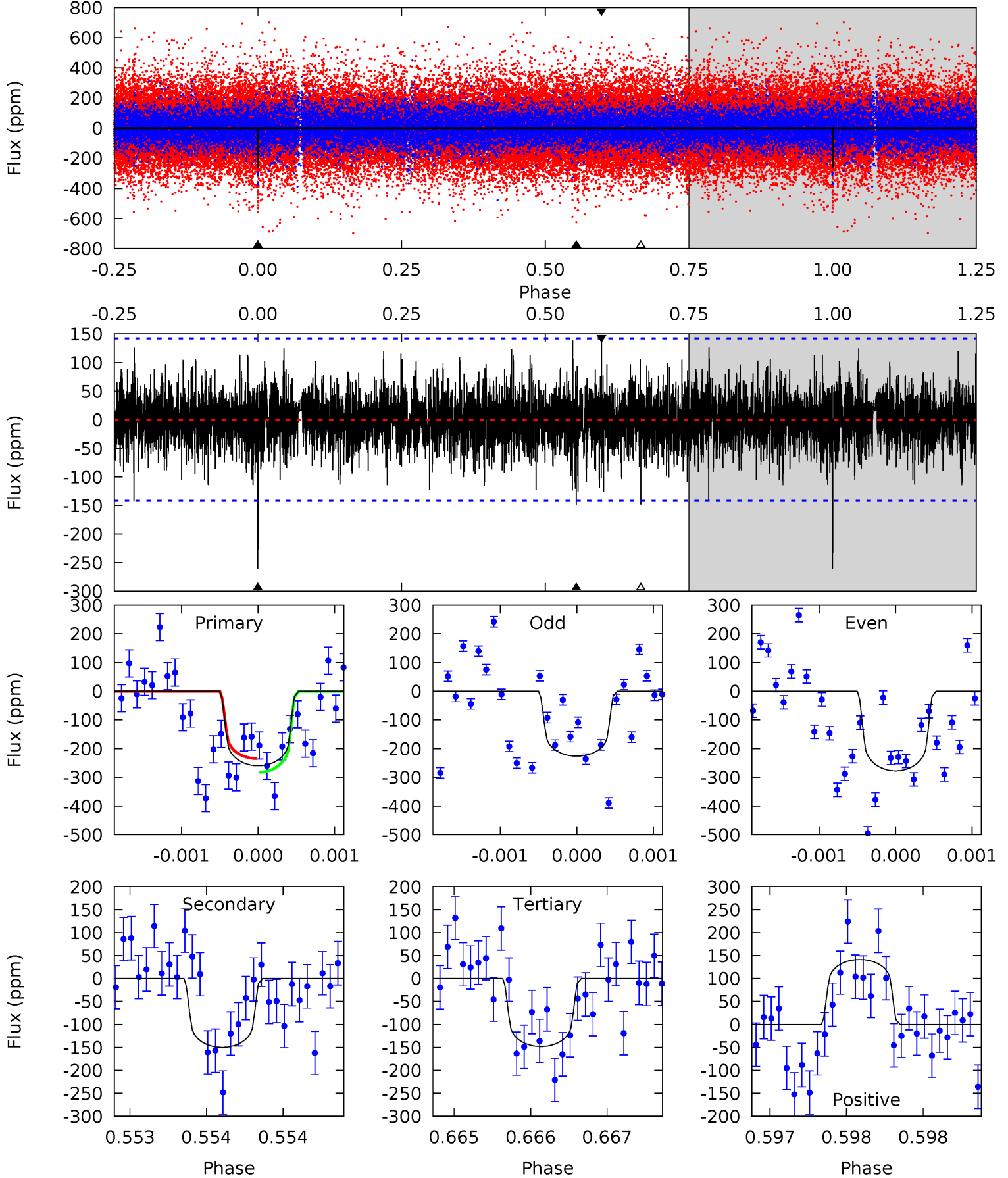
TCE 007895129-01 P=408.262529 Days $T_0=368.739002$ (BKJD)



DV Model-Shift Uniqueness Test

007895129-01, P = 408.276967 Days, E = 368.753153 Days

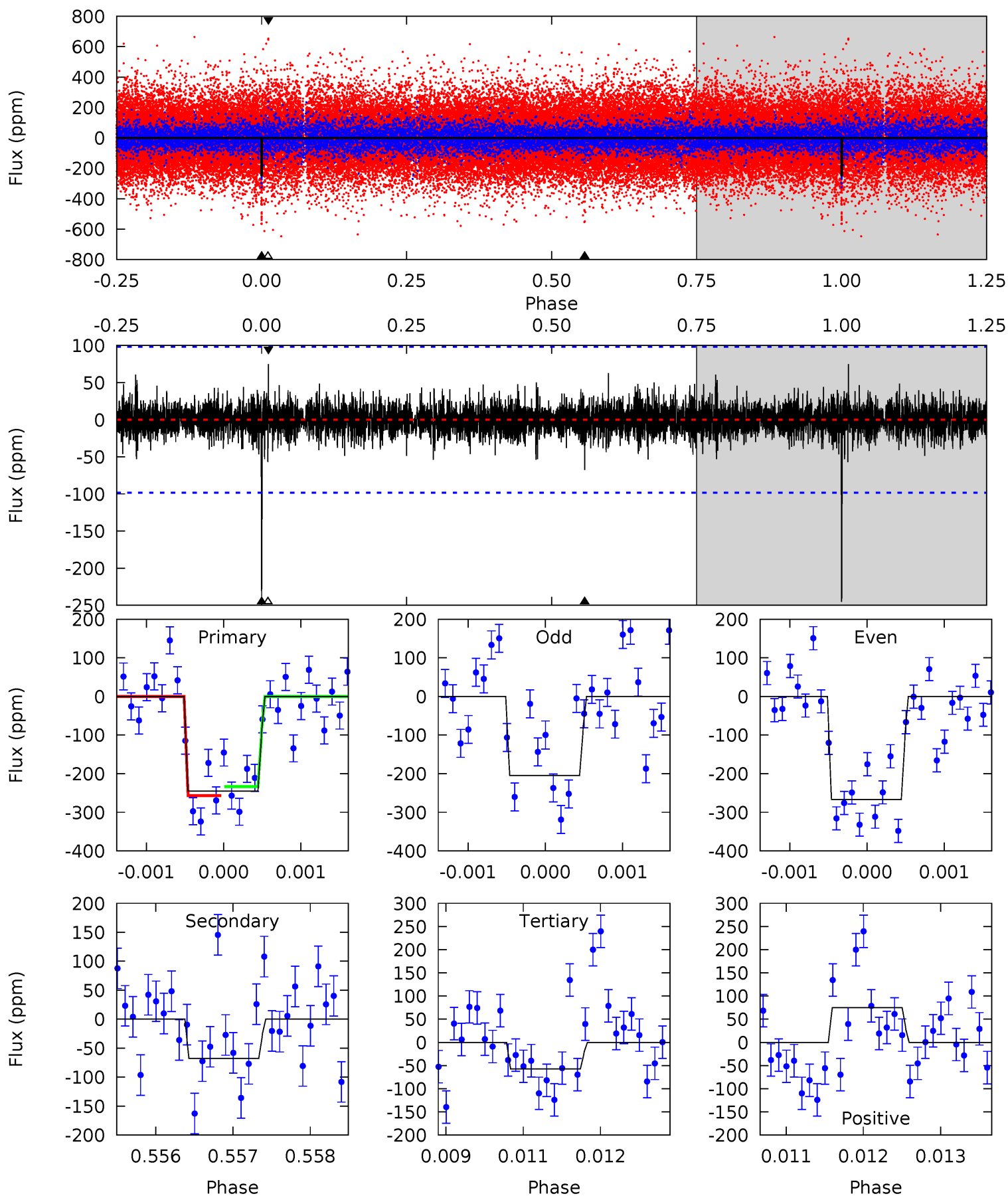
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	5.84	5.77	5.51	5.54	3.42	1.38	4.36	4.62	0.08	0.34	0.98	1.17	0.35	0.93



Alt Model-Shift Uniqueness Test

007895129-01, P = 408.262529 Days, E = 368.739002 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.6	3.75	3.17	4.14	5.44	3.28	0.78	10.4	9.45	0.58	-0.39	1.69	1.22	0.23	0.64



Stellar Parameters For KIC 007895129

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6160^{+166}_{-185}	$4.323^{+0.112}_{-0.138}$	$-0.080^{+0.250}_{-0.300}$	$1.171^{+0.251}_{-0.168}$	$1.049^{+0.155}_{-0.113}$	$0.920^{+0.492}_{-0.376}$
	+3%/-3%	+3%/-3%	+312%/-375%	+21%/-14%	+15%/-11%	+53%/-41%
Source	PHO1	FLK73	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 007895129-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-150 ± 26	$2.43^{+1.75}_{-1.49}$	393^{+24}_{-18}	5050^{+2953}_{-989}	16730^{+83283}_{-10997}
Alt.	-68 ± 18	$2.43^{+1.80}_{-1.43}$	393^{+24}_{-20}	4268^{+1994}_{-778}	7539^{+34400}_{-5278}

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

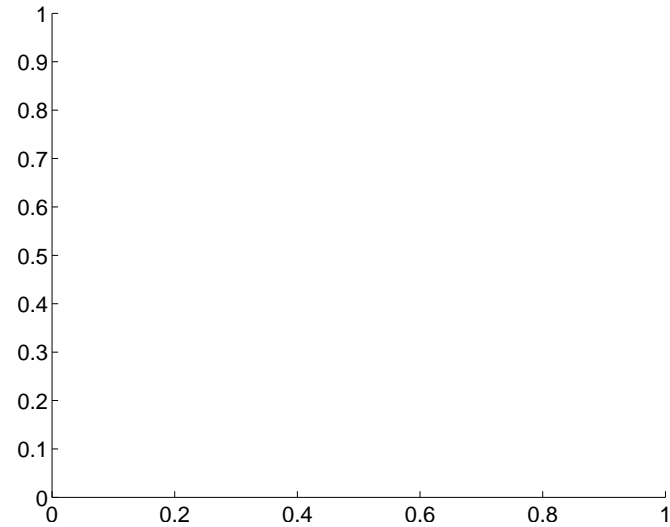
Supplemental centroid analysis for 007895129-01. Kepler magnitude: 13.46. Transit SNR 5.92

There are 0 quarters with good PRF difference image offsets

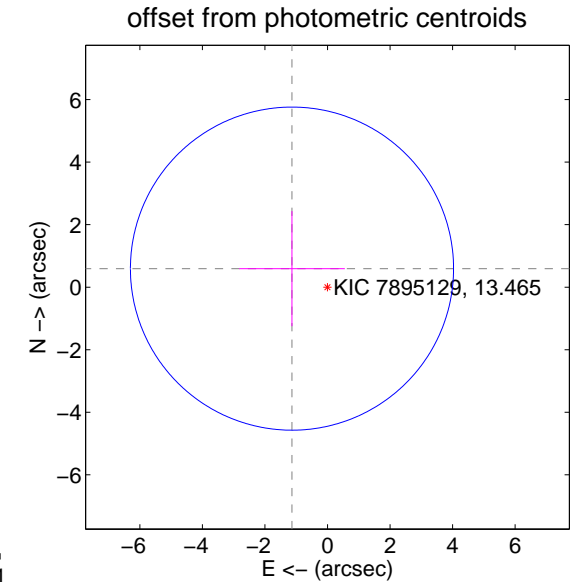
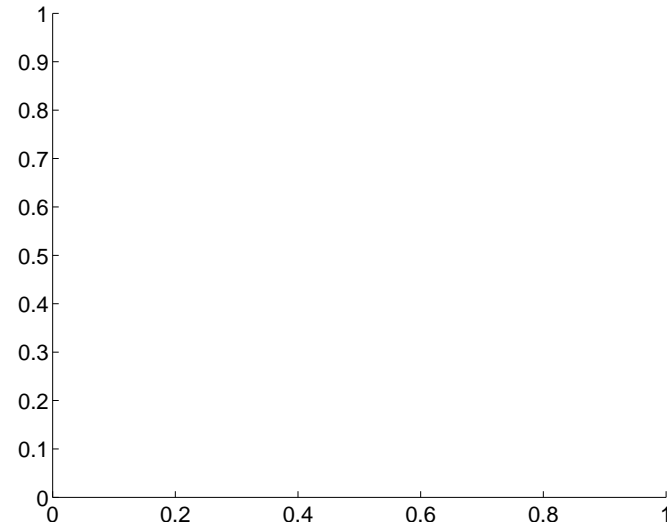
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	1.28 ± 1.72	0.74	1.14 ± 1.69	0.59 ± 1.84

There is no PRF-fit offset from OOT-fit

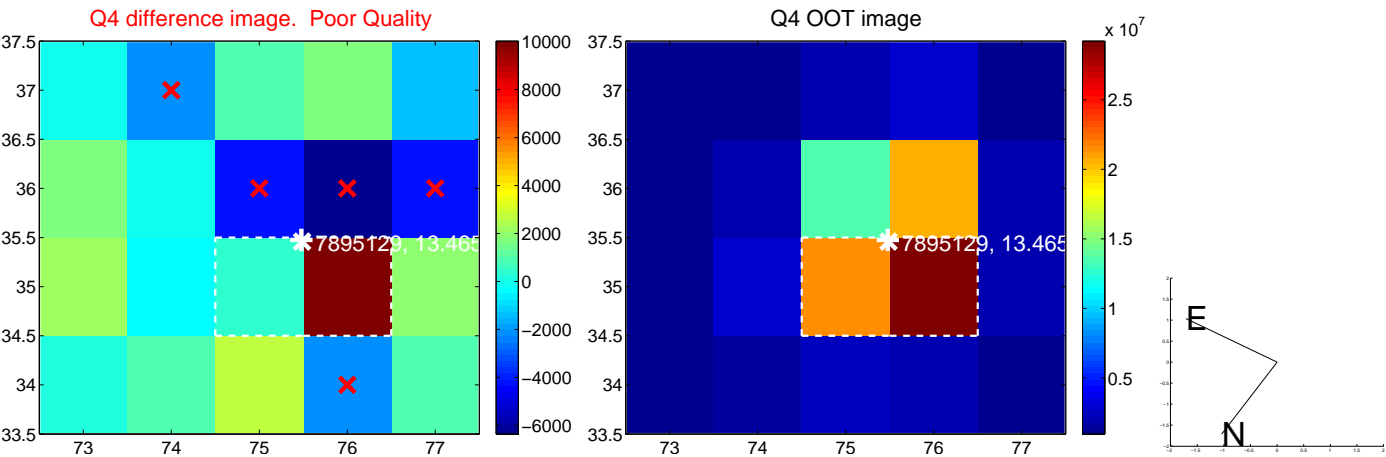


There is no PRF-fit offset from KIC

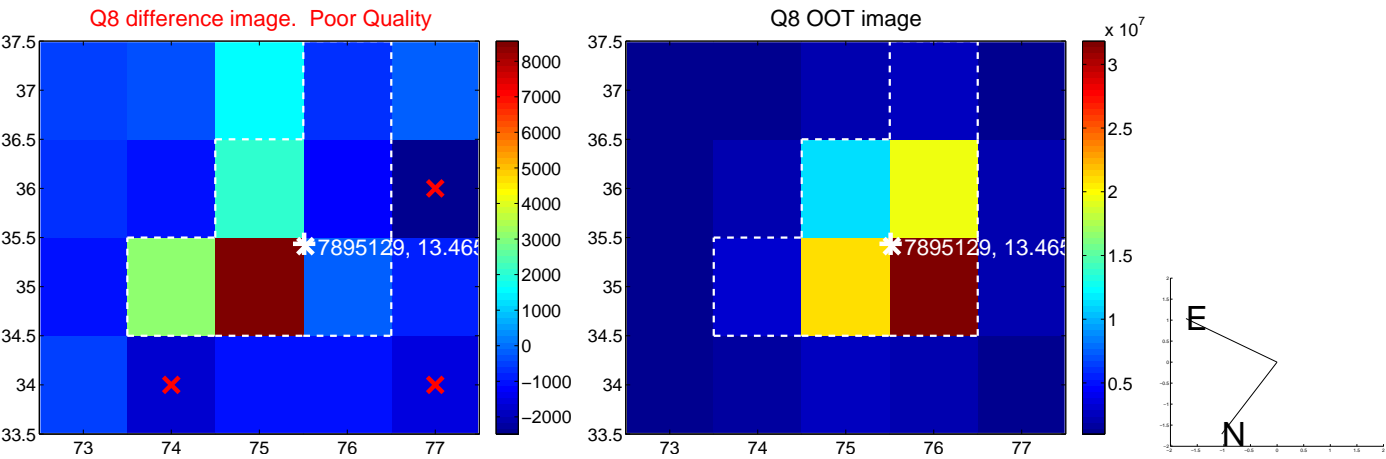
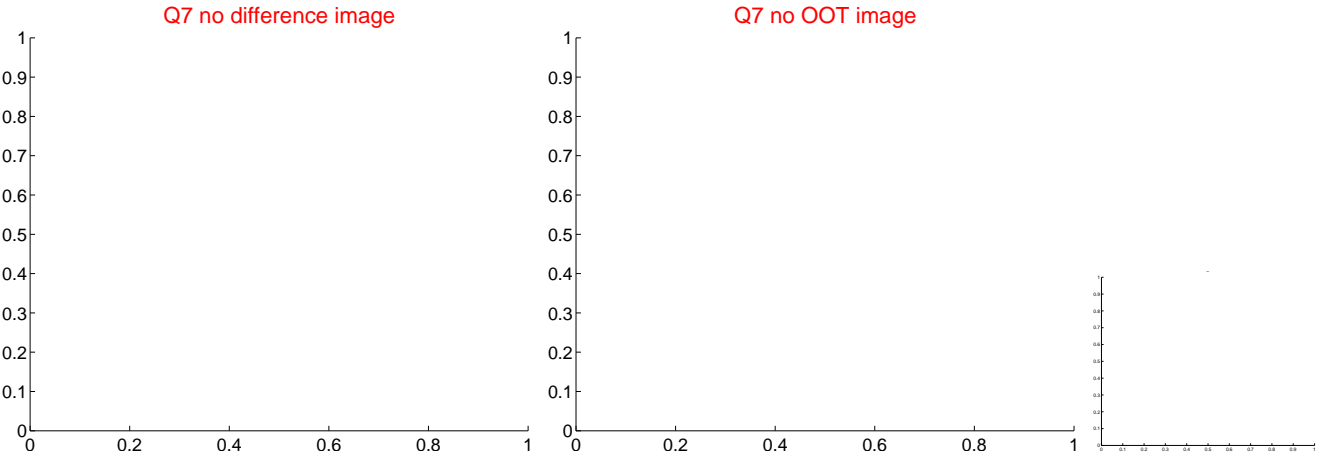
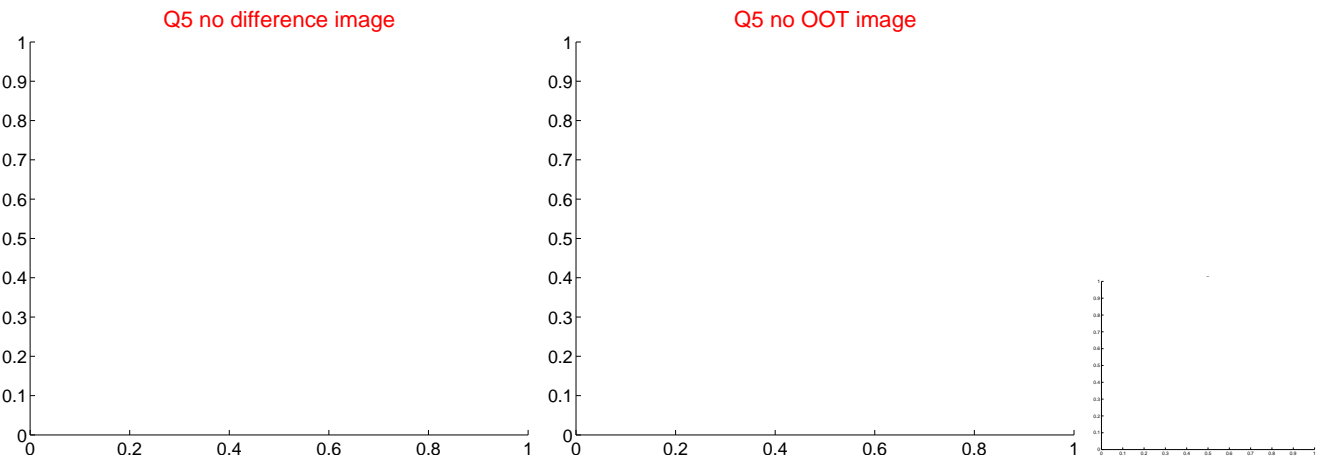


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



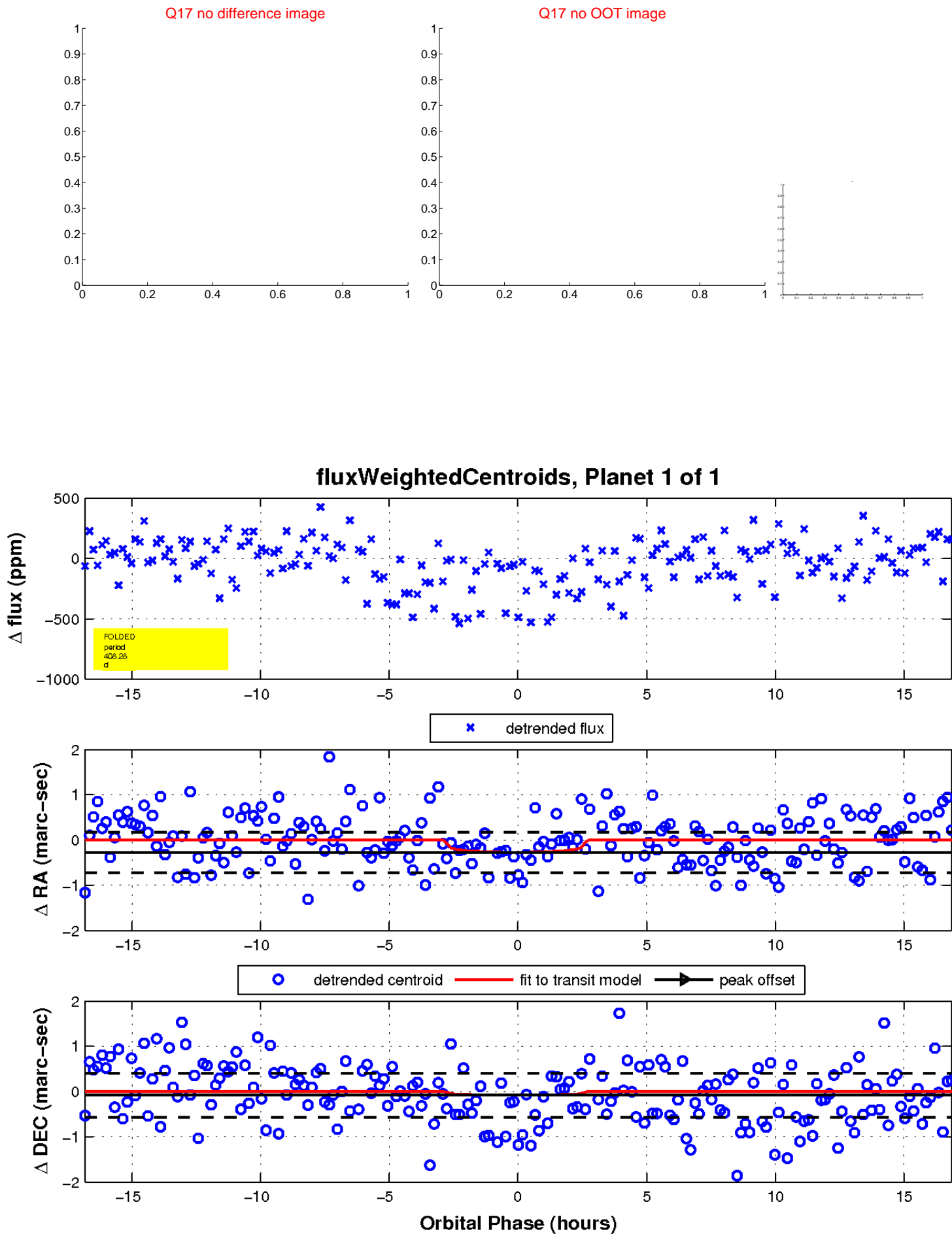
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

