

KIC 001995712

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})
001995712-01	OBS	7626.01	462.136277	307.643776	566.2	8.699	7.8	7.7	0.97	6079	2.51	0.92

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001995712-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—CENT_FEW_DIFFS

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

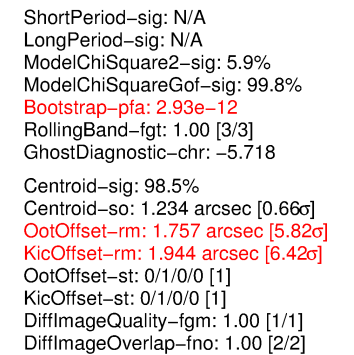
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

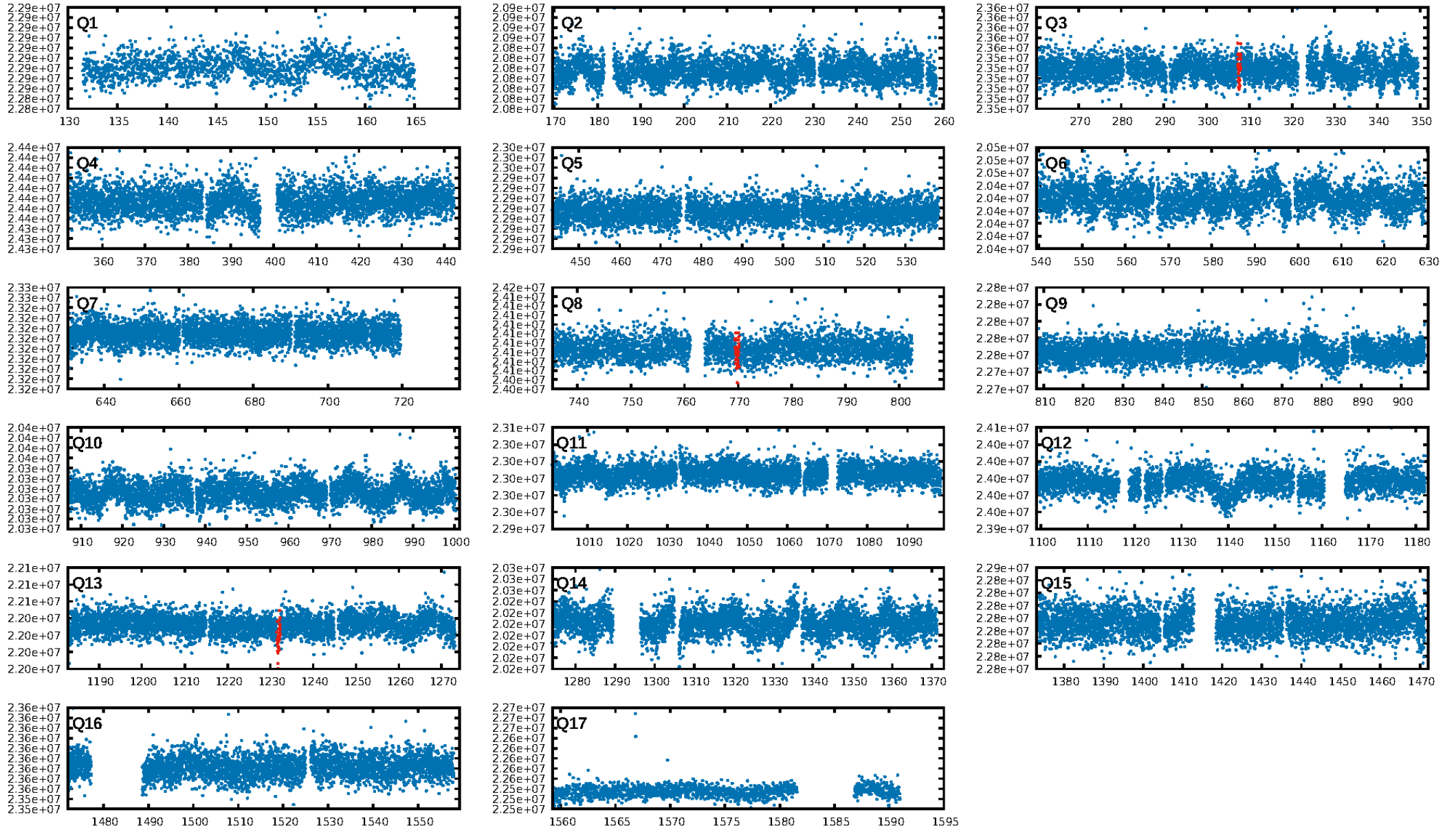
Ephemeris Match Information For 001995712-01

No Significant Match Found

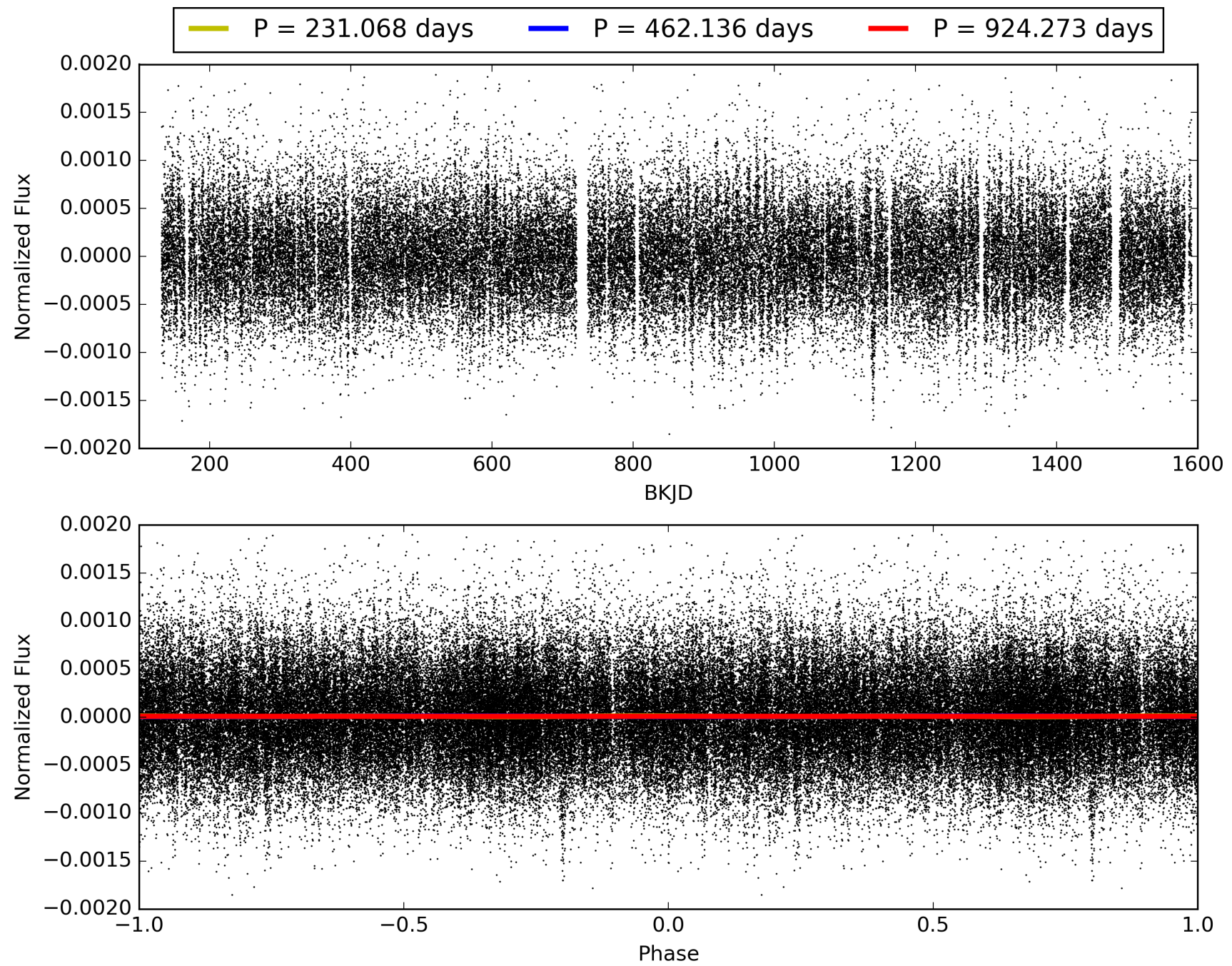
KIC: 1995712 Candidate: 1 of 1 Period: 462.136 d



TCE 001995712-01, PDC Light Curves

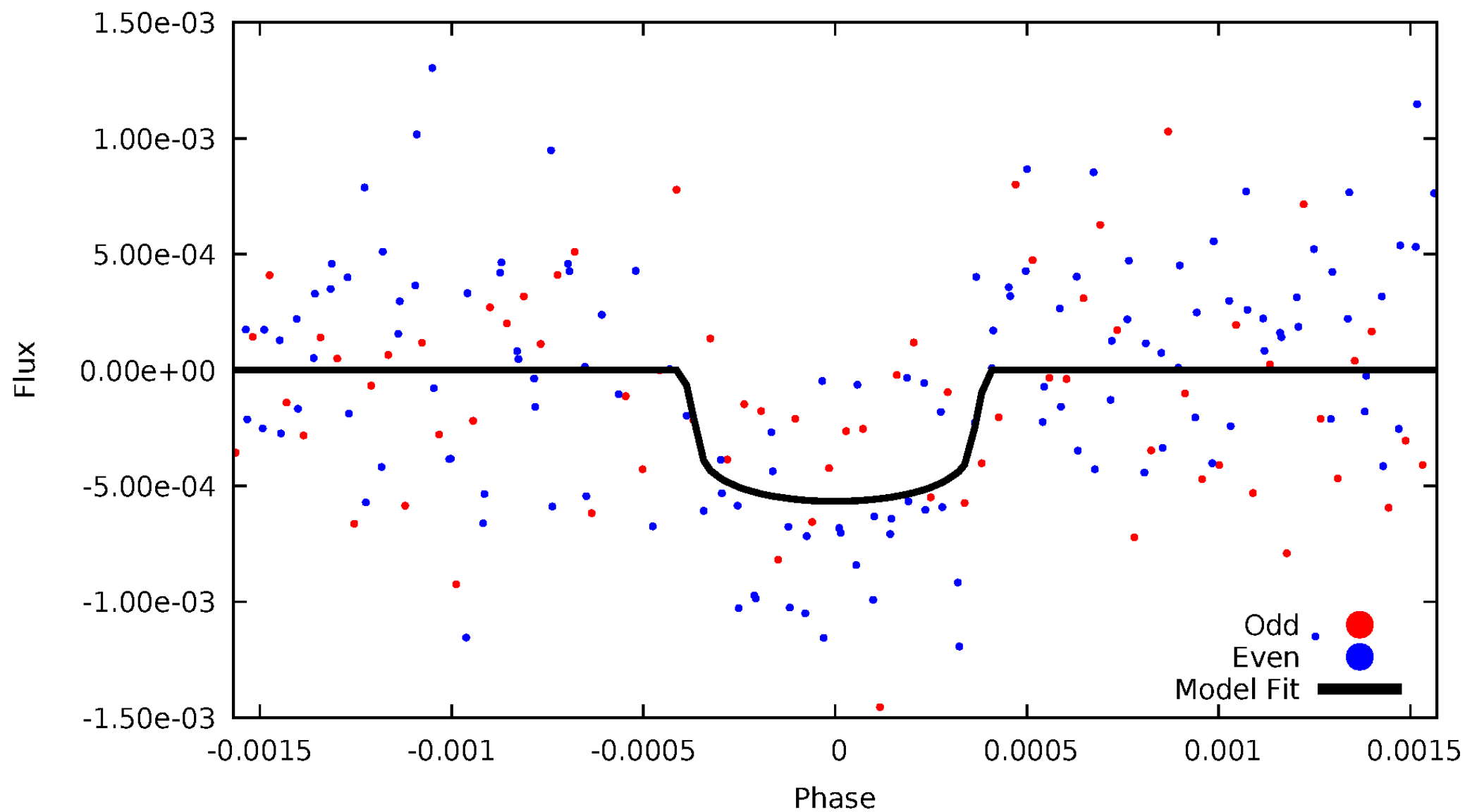


TCE 001995712-01



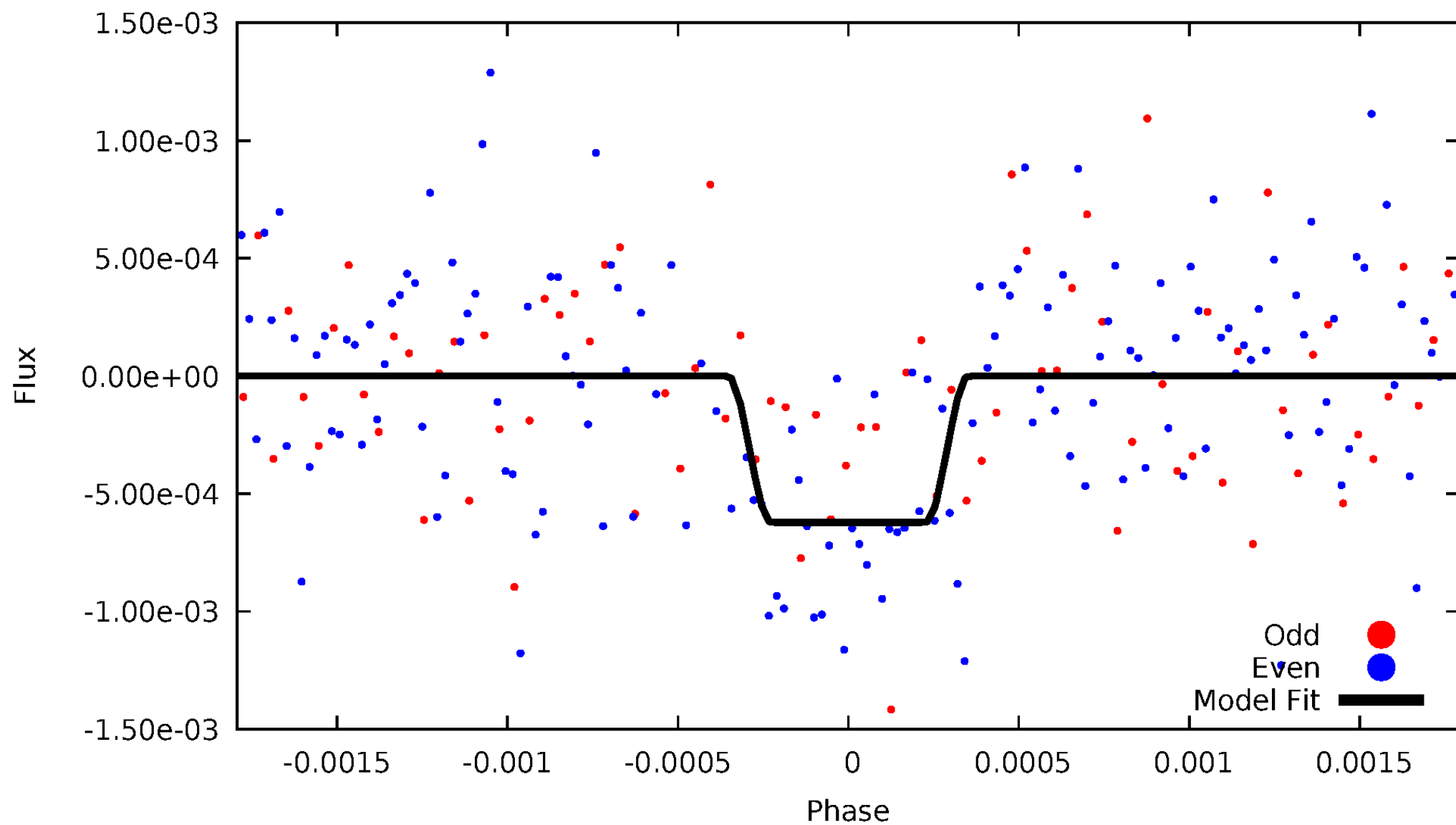
DV Odd/Even

TCE 001995712-01



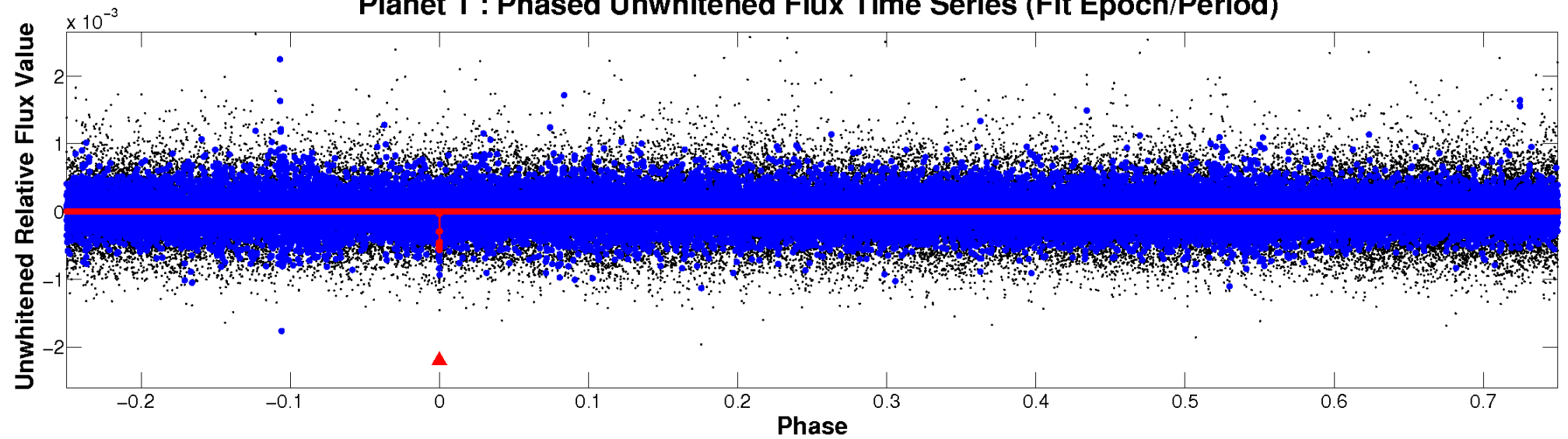
ALT Odd/Even

TCE 001995712-01

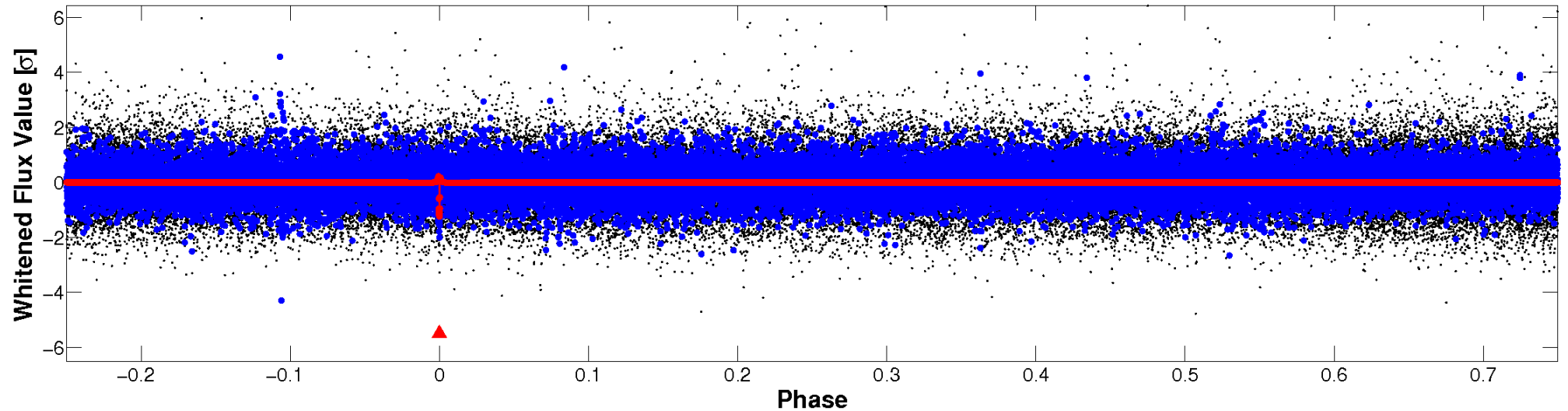


Non-Whitened Vs. Whitened Light Curve

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



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



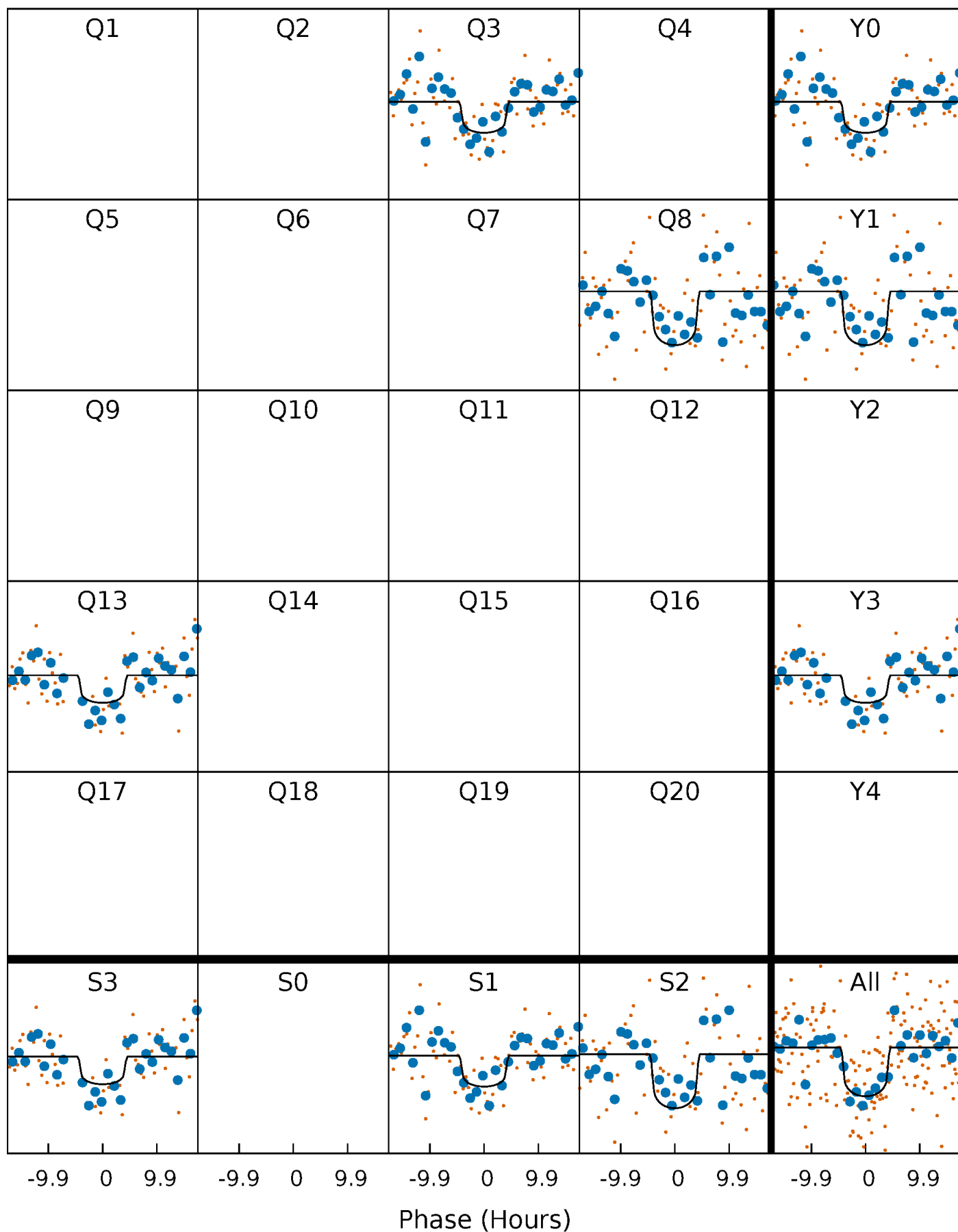
PDC Quarter-Phased Transit Curves

TCE 001995712-01 P=462.136277 Days $T_0=307.643776$ (BKJD)



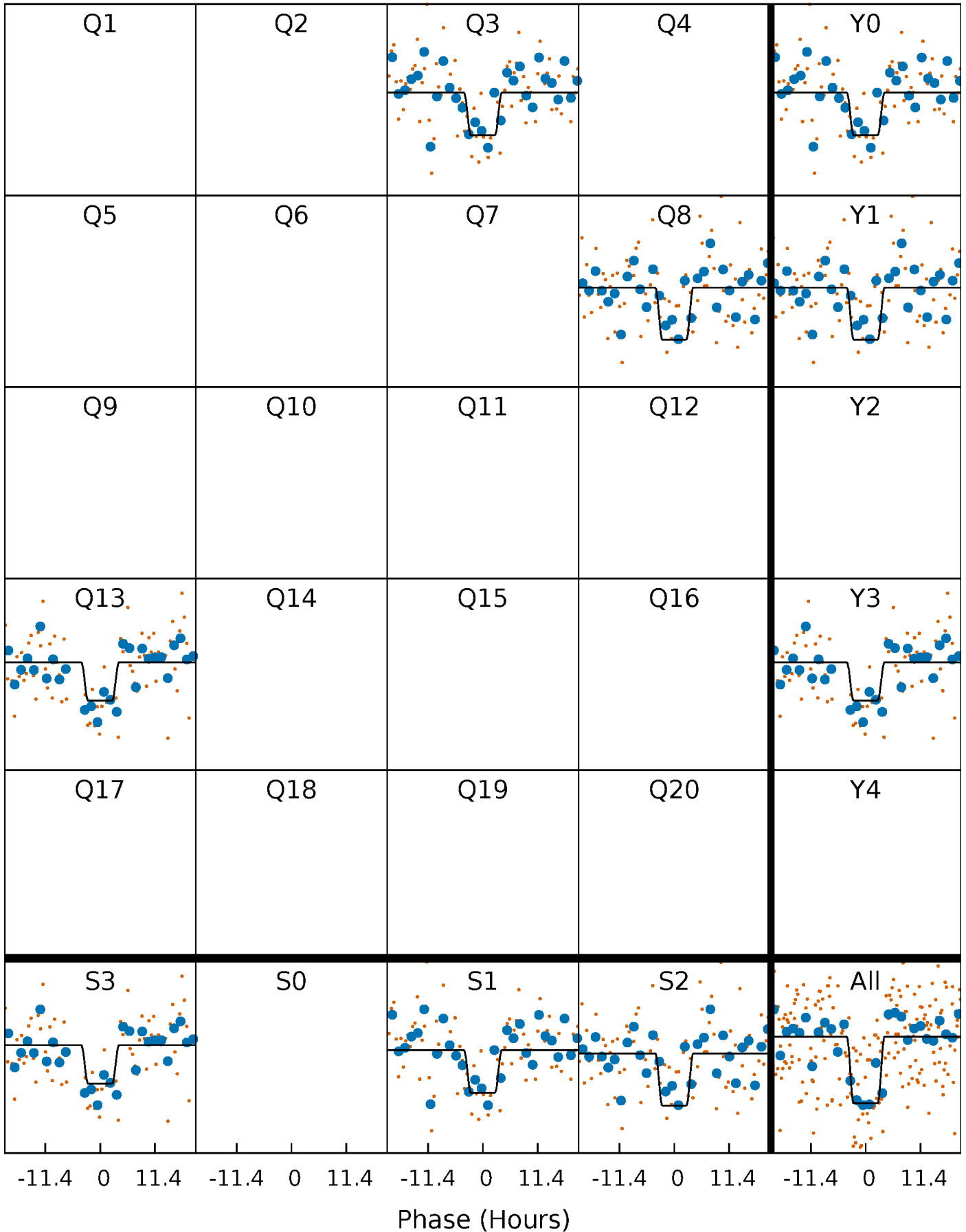
DV Quarter-Phased Transit Curves

TCE 001995712-01 P=462.136277 Days $T_0=307.643776$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

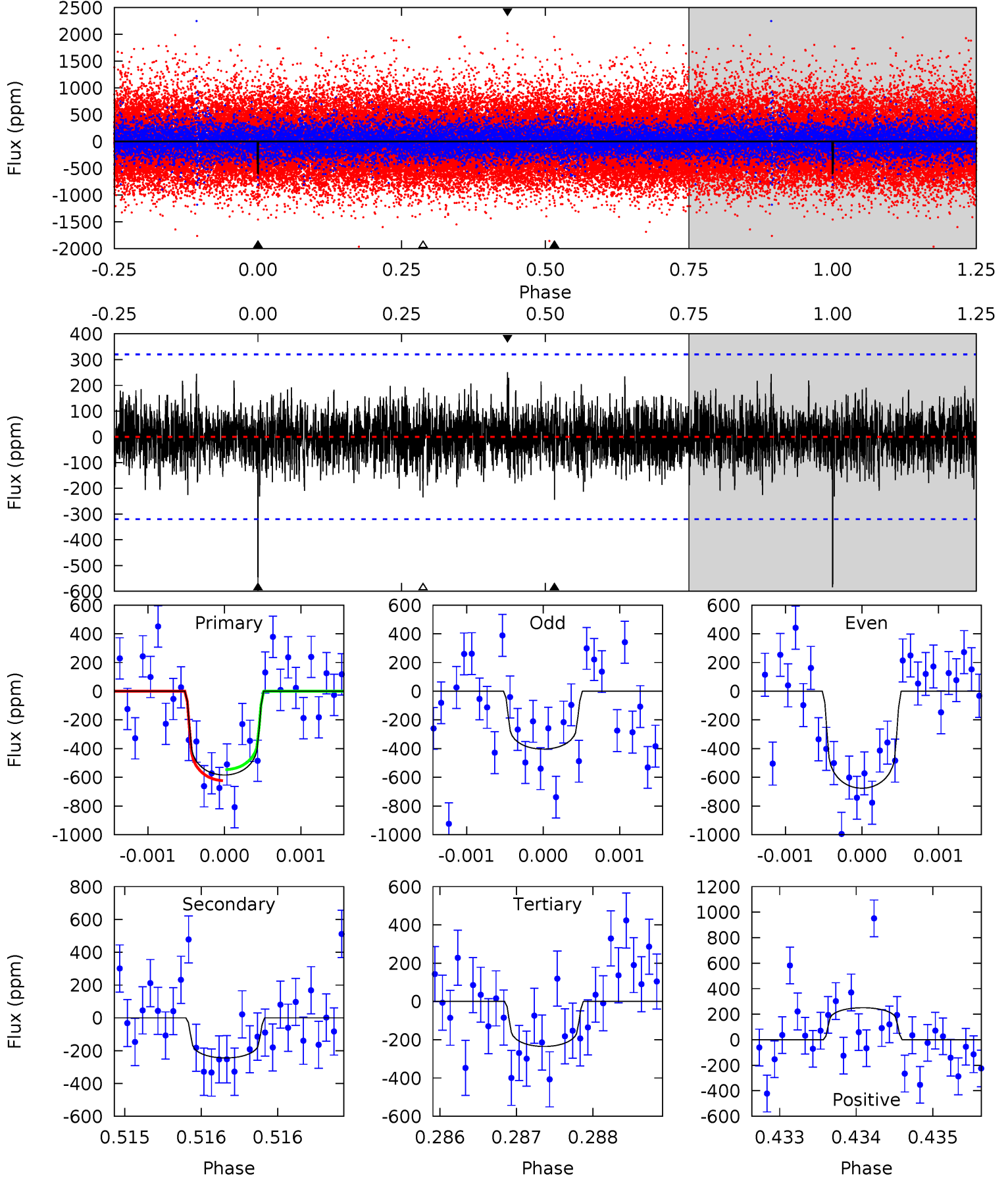
TCE 001995712-01 P=462.132204 Days $T_0=307.643762$ (BKJD)



DV Model-Shift Uniqueness Test

001995712-01, P = 462.136277 Days, E = 307.643776 Days

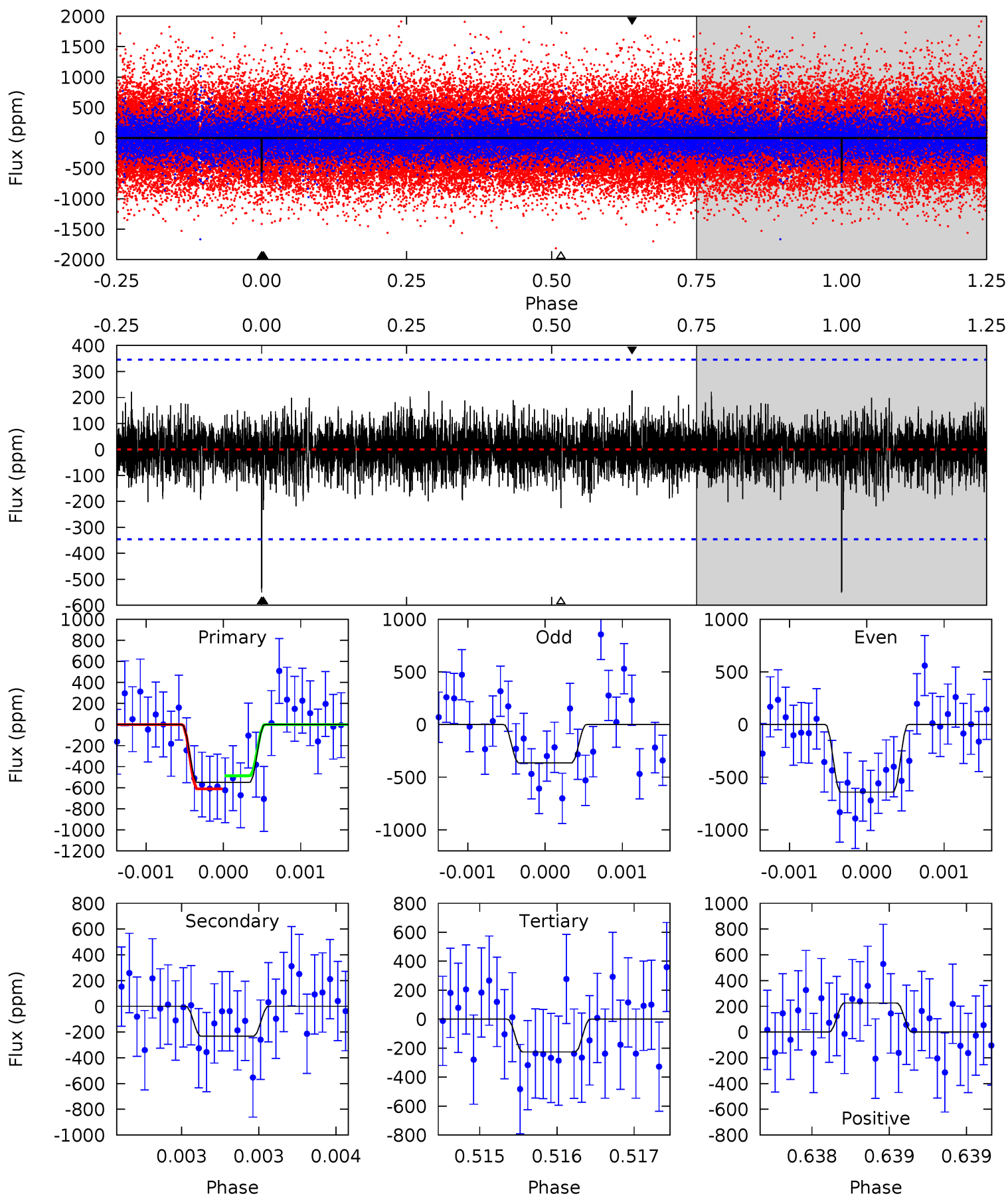
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.0	4.19	4.03	4.30	5.49	3.35	1.13	5.98	5.72	0.16	-0.11	2.25	0.96	0.30	0.66



Alt Model-Shift Uniqueness Test

001995712-01, P = 462.132204 Days, E = 307.643762 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.78	3.71	3.61	3.61	5.52	3.40	0.98	5.17	5.17	0.09	0.10	2.06	1.01	0.29	0.98



Stellar Parameters For KIC 001995712

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6079^{+163}_{-200}	$4.411^{+0.120}_{-0.180}$	$-0.500^{+0.300}_{-0.300}$	$0.974^{+0.271}_{-0.146}$	$0.892^{+0.109}_{-0.089}$	$1.359^{+0.737}_{-0.642}$
	+3%/-3%	+3%/-4%	+60%/-60%	+28%/-15%	+12%/-10%	+54%/-47%
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 001995712-01 / KOI 7626.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-244 ± 58	$2.65^{+1.69}_{-1.52}$	350^{+26}_{-21}	4970^{+2682}_{-918}	$23702^{+114006}_{-15460}$
Alt.	-232 ± 63	$2.84^{+1.70}_{-1.52}$	350^{+26}_{-21}	4711^{+2084}_{-731}	19634^{+73600}_{-12304}

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

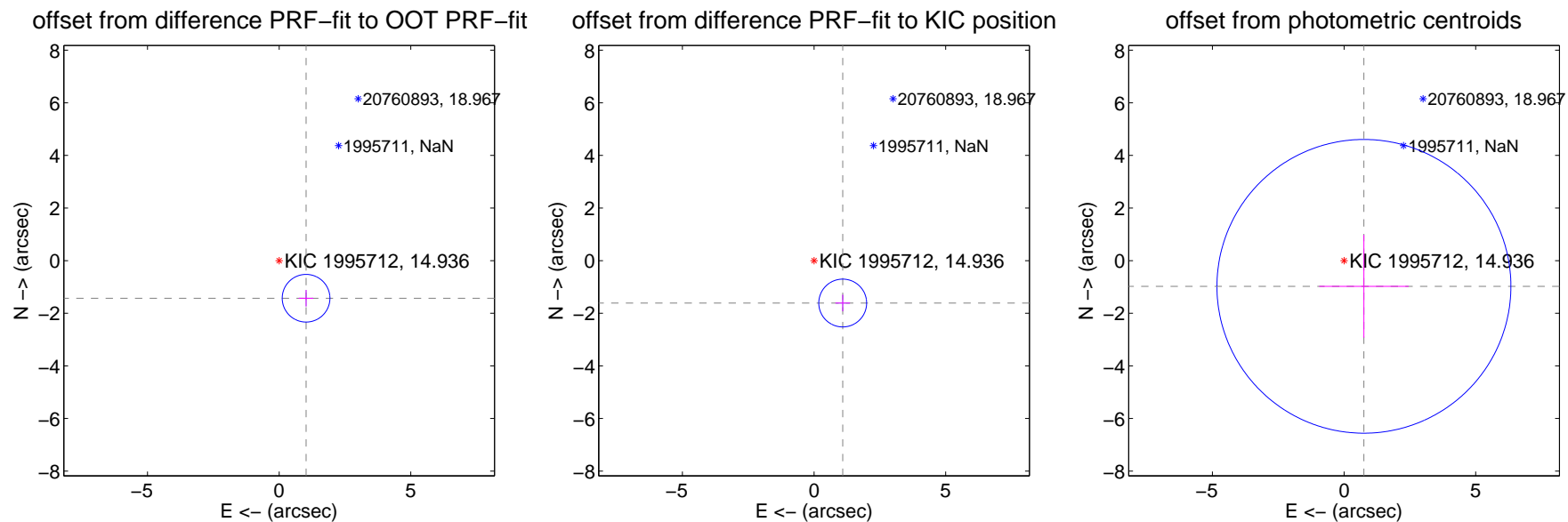
DV Centroid Data

Supplemental centroid analysis for 001995712-01. Kepler magnitude: 14.94. Transit SNR 7.71

There are 1 quarters with good PRF difference image offsets

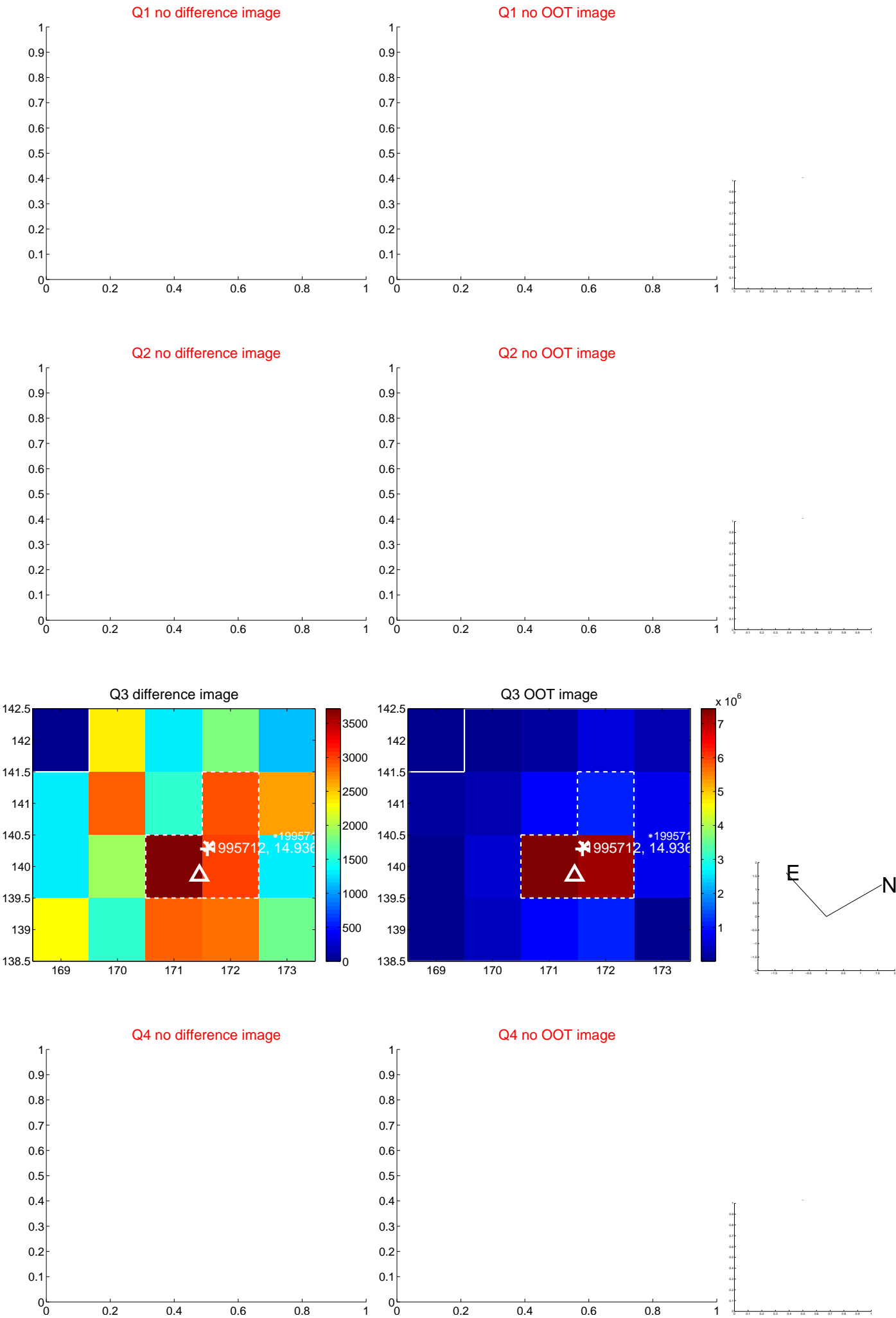
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.757 ± 0.302	5.82	-1.023 ± 0.276	-1.429 ± 0.314
PRF-fit source offset from KIC position	1.944 ± 0.303	6.42	-1.089 ± 0.276	-1.611 ± 0.314
photometric centroid source offset	1.23 ± 1.86	0.66	-0.75 ± 1.70	-0.98 ± 1.95

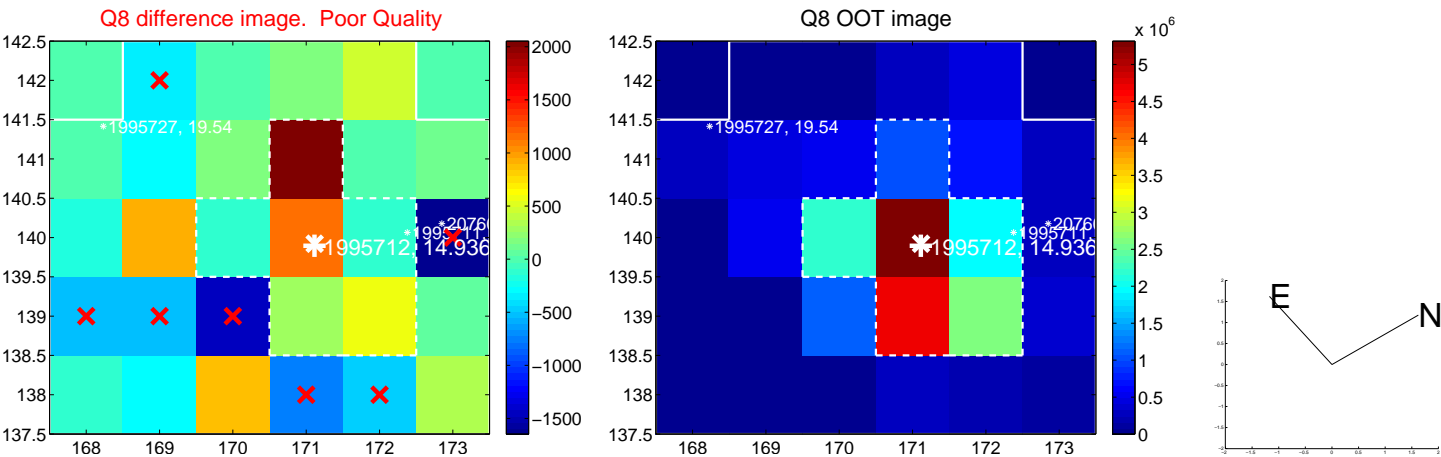


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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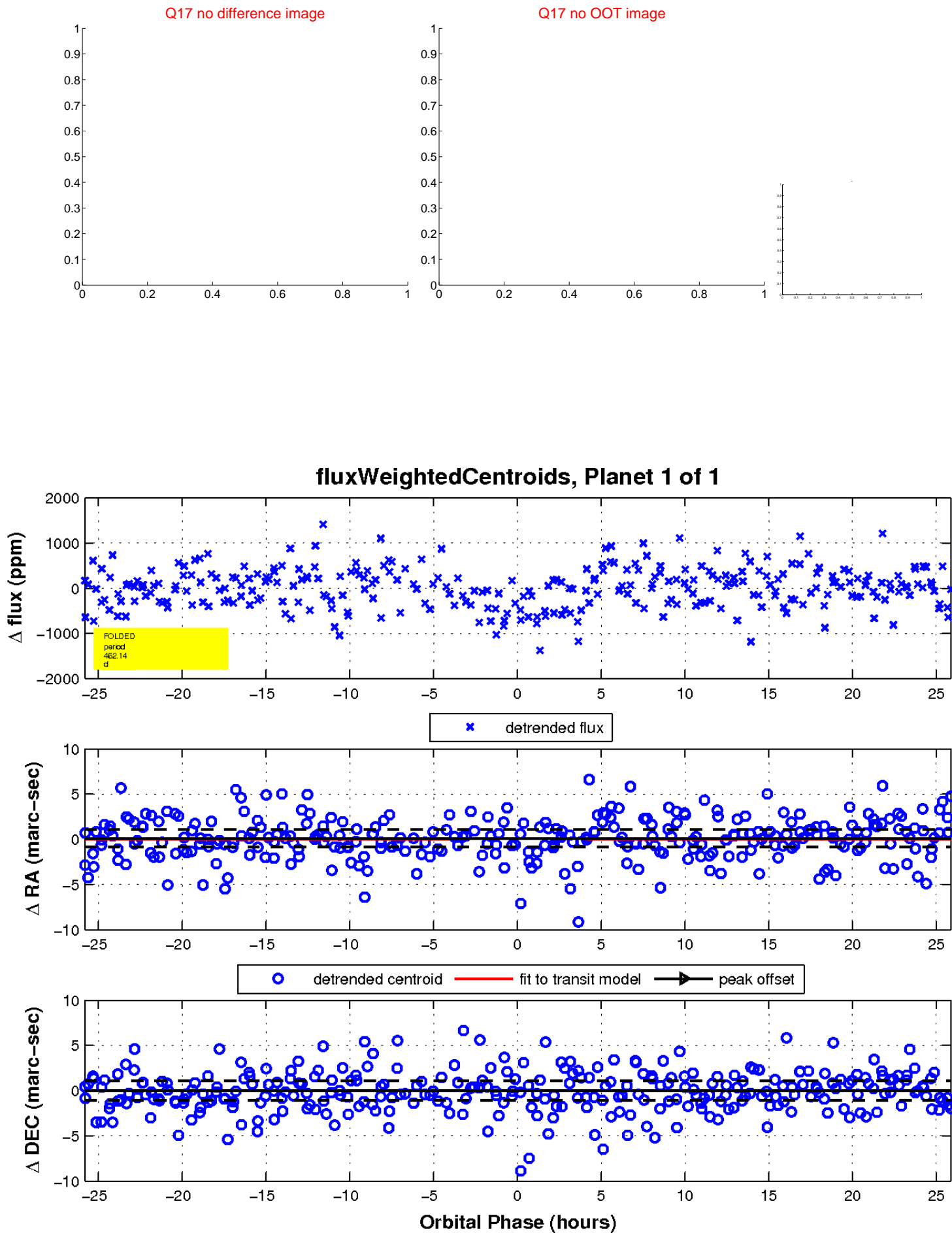
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UKIRT Image

