

KIC 006191036

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})
006191036-01	OBS	No	602.005214	255.361322	881.9	6.662	10.8	7.9	1.29	5942	7.39	0.97

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006191036-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_POS_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.

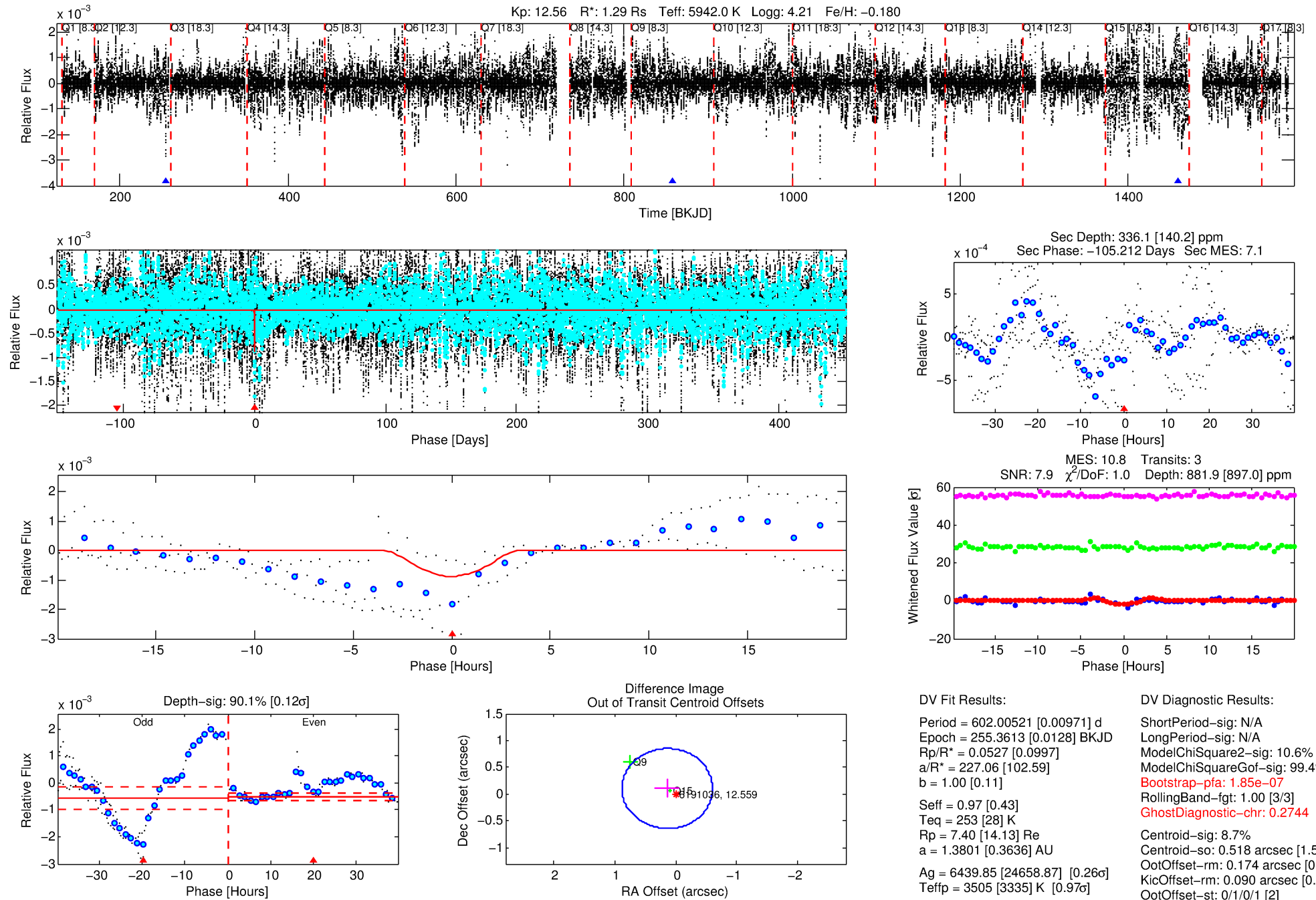
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006191036-01

No Significant Match Found

DV One-Page Summary

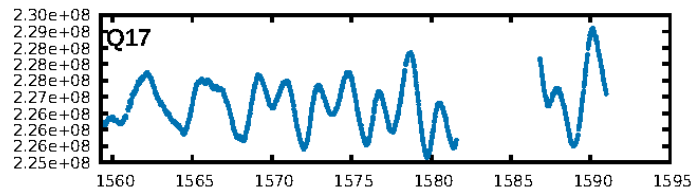
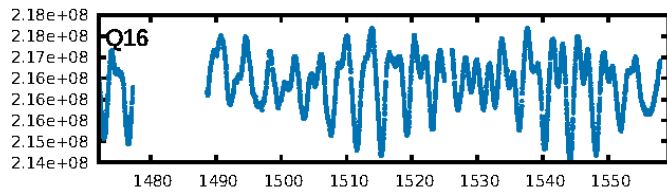
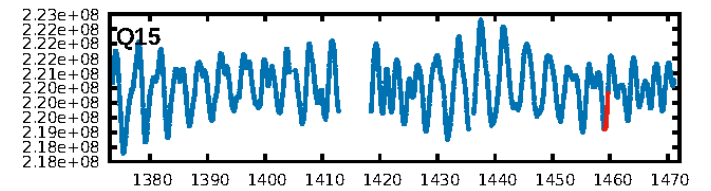
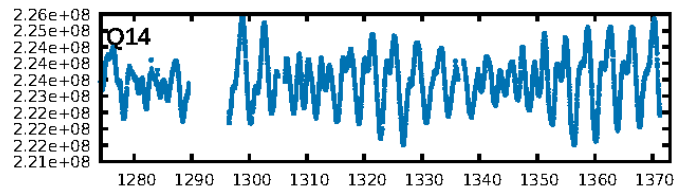
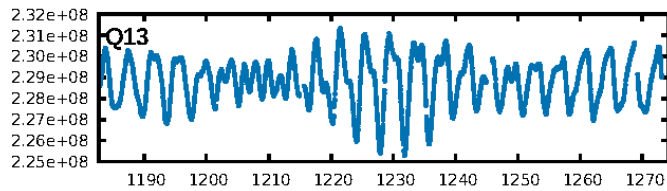
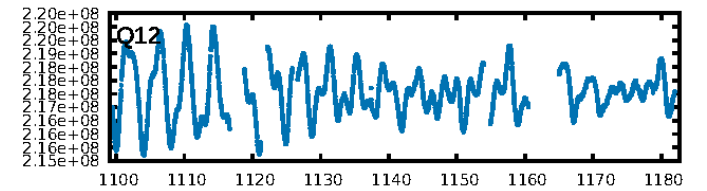
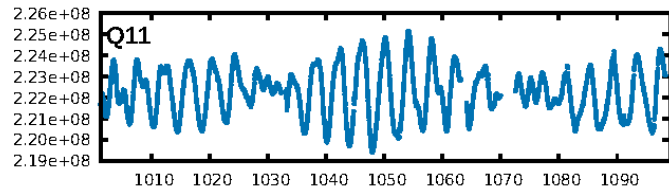
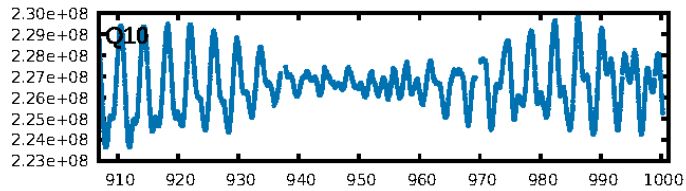
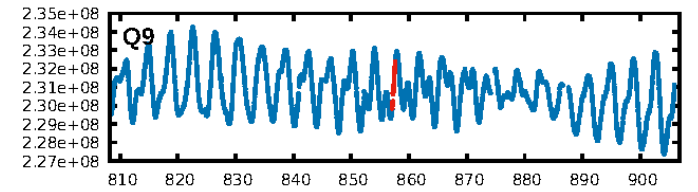
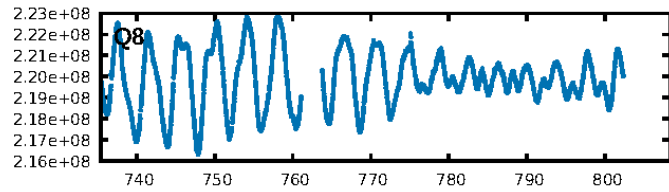
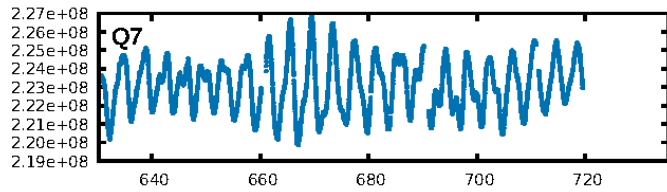
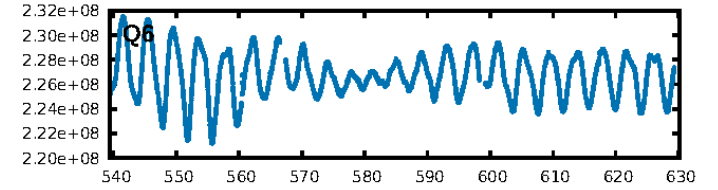
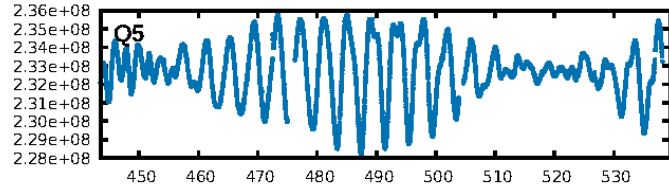
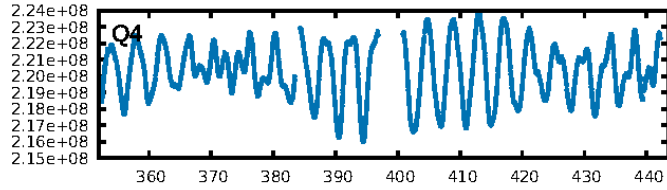
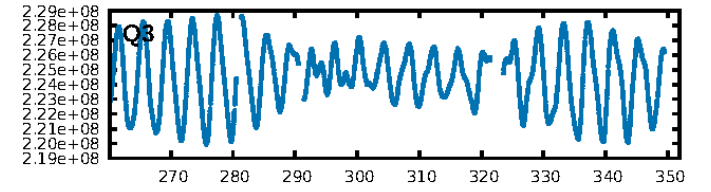
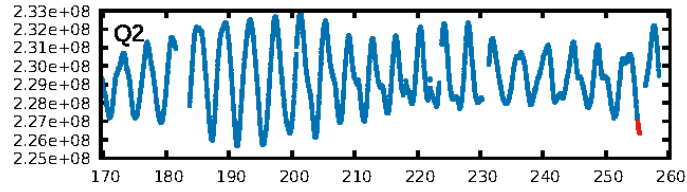
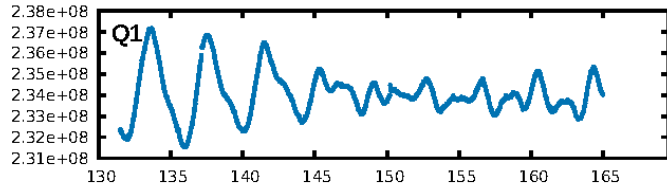
KIC: 6191036 Candidate: 1 of 1 Period: 602.005 d



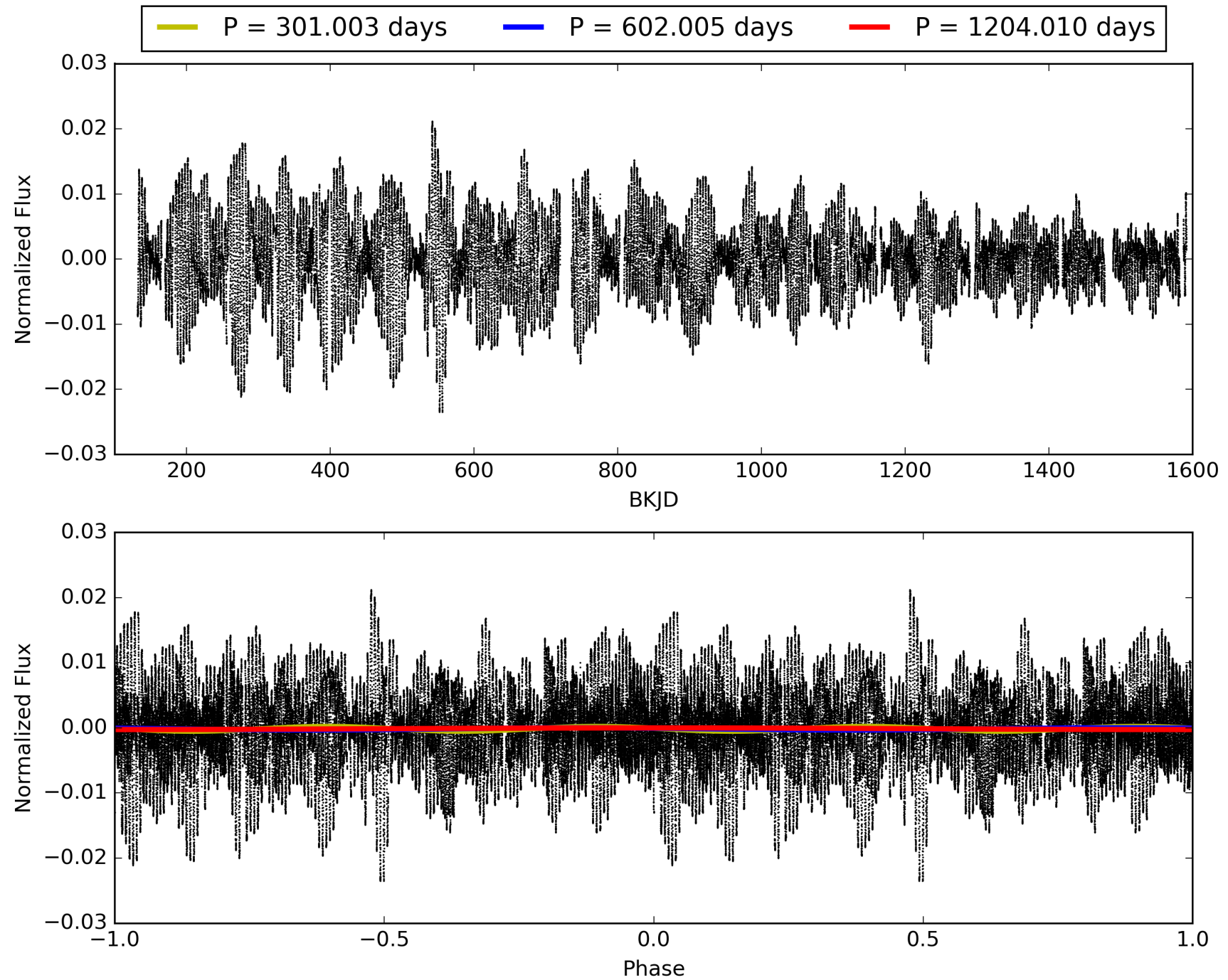
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:39:09 Z

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

TCE 006191036-01, PDC Light Curves

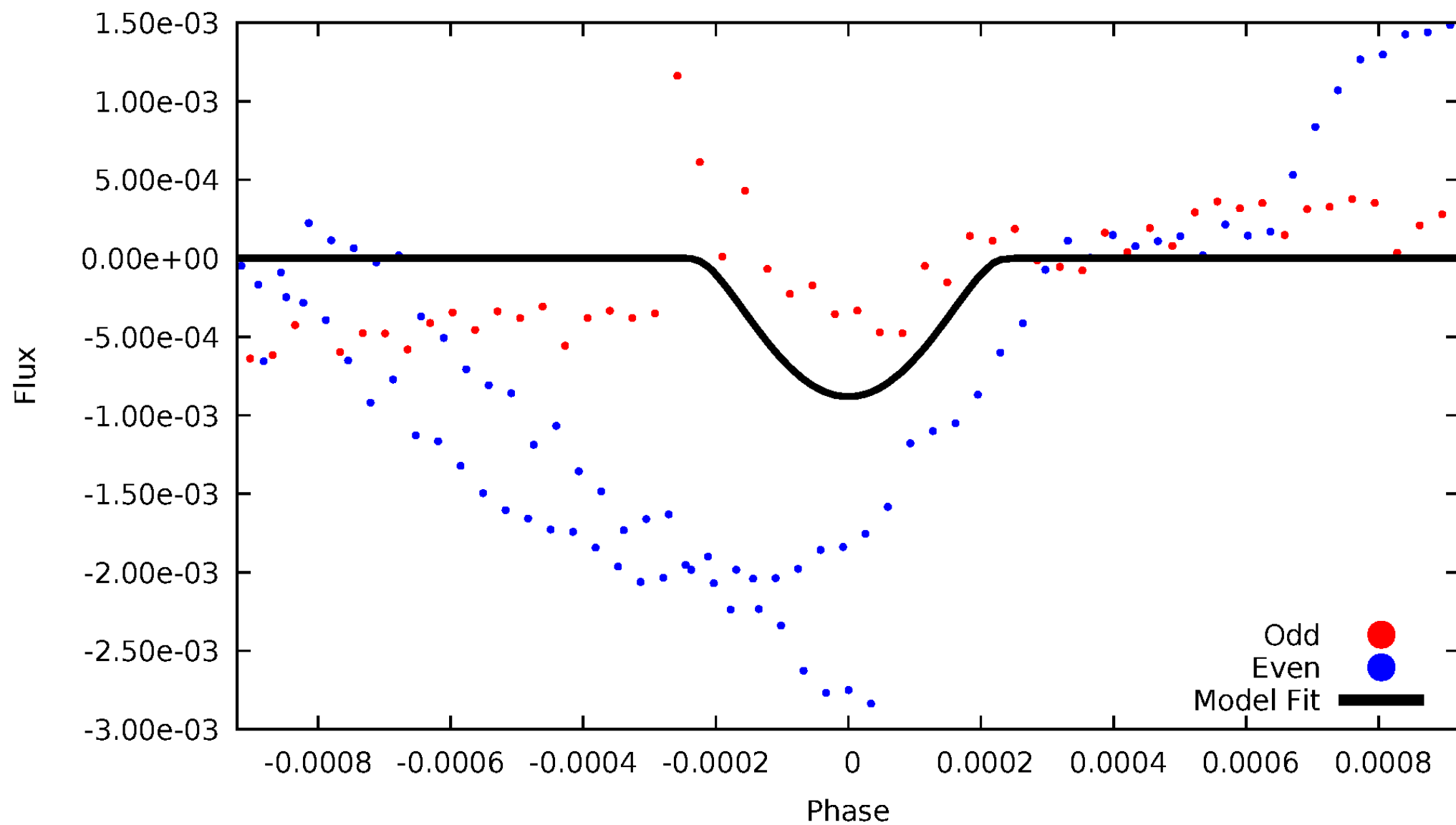


TCE 006191036-01



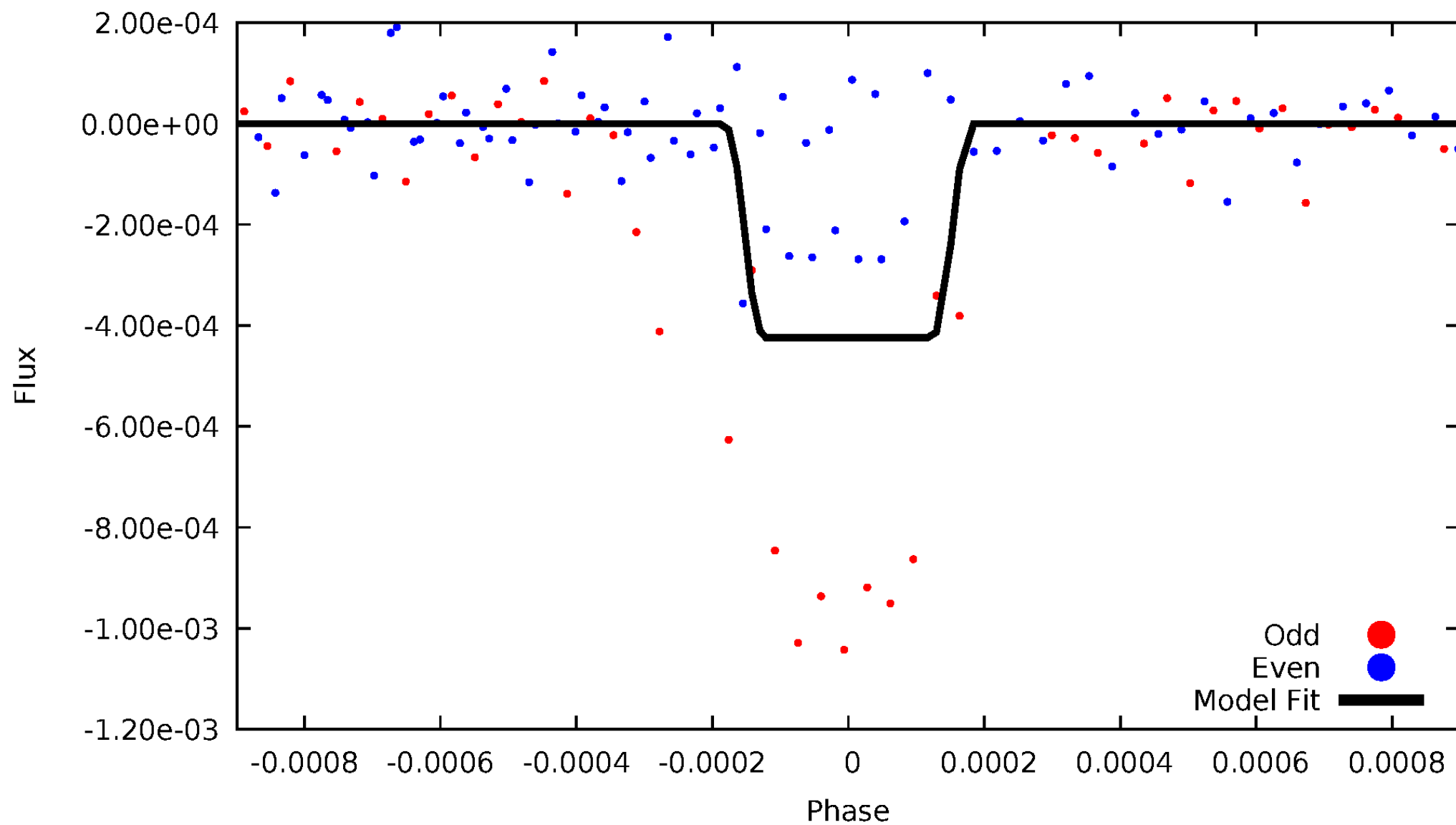
DV Odd/Even

TCE 006191036-01



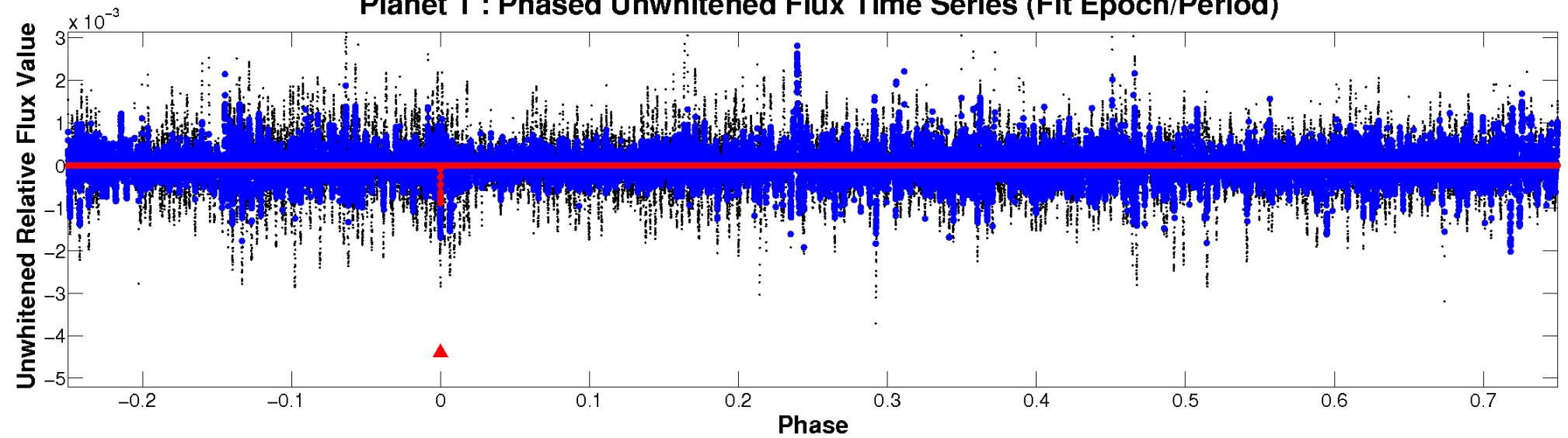
ALT Odd/Even

TCE 006191036-01

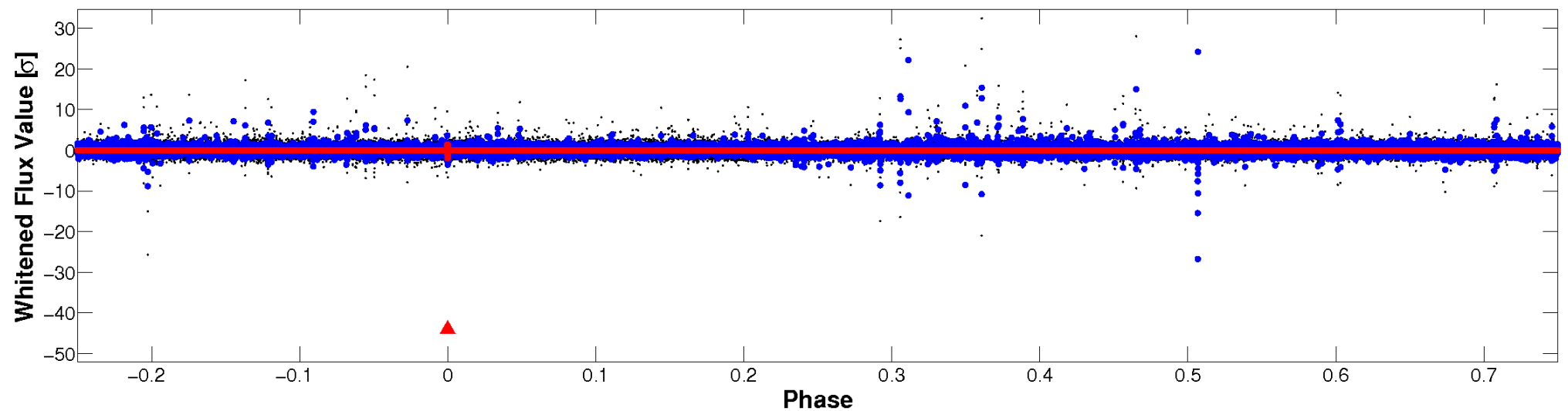


Non-Whitened Vs. Whitened Light Curve

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

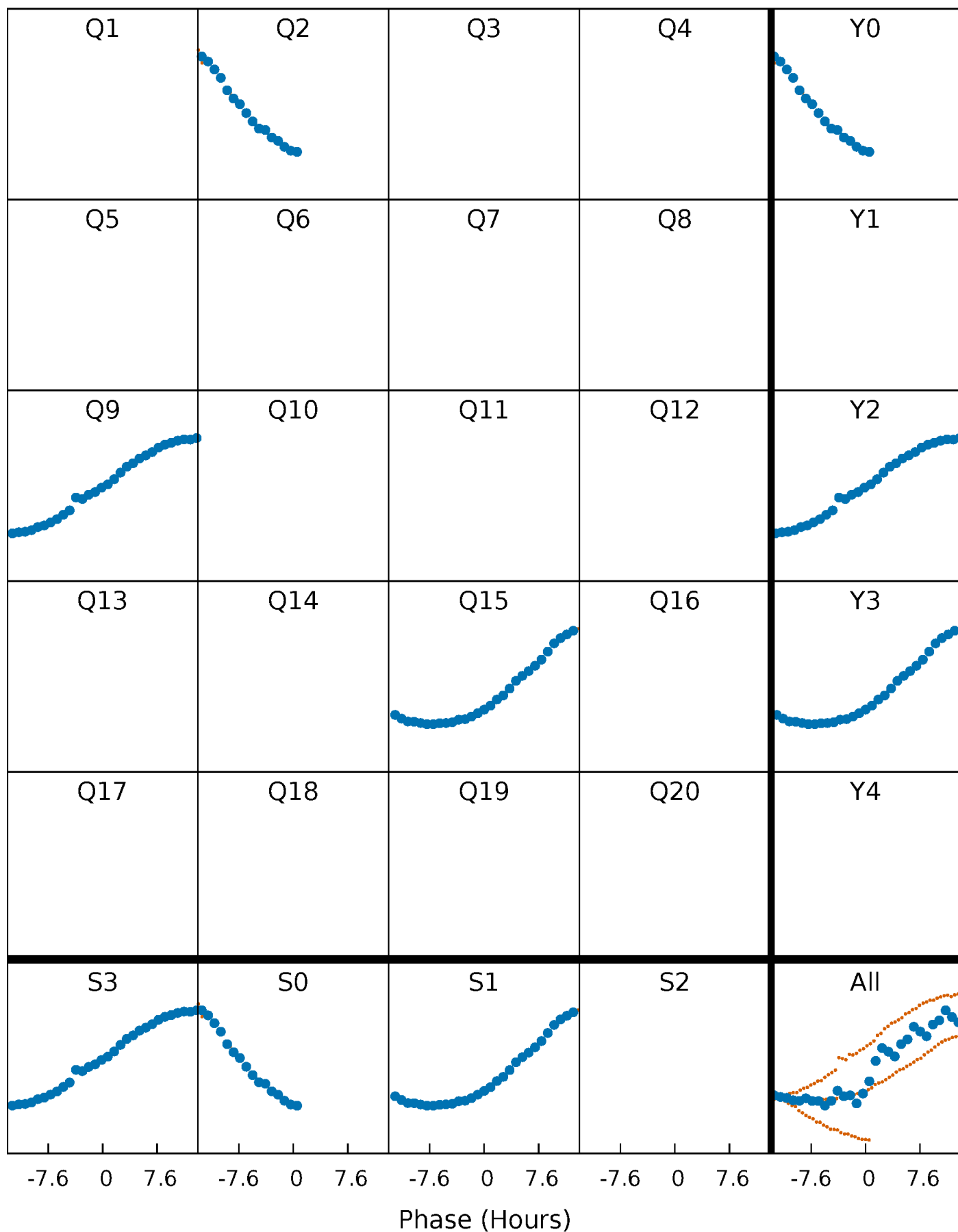


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



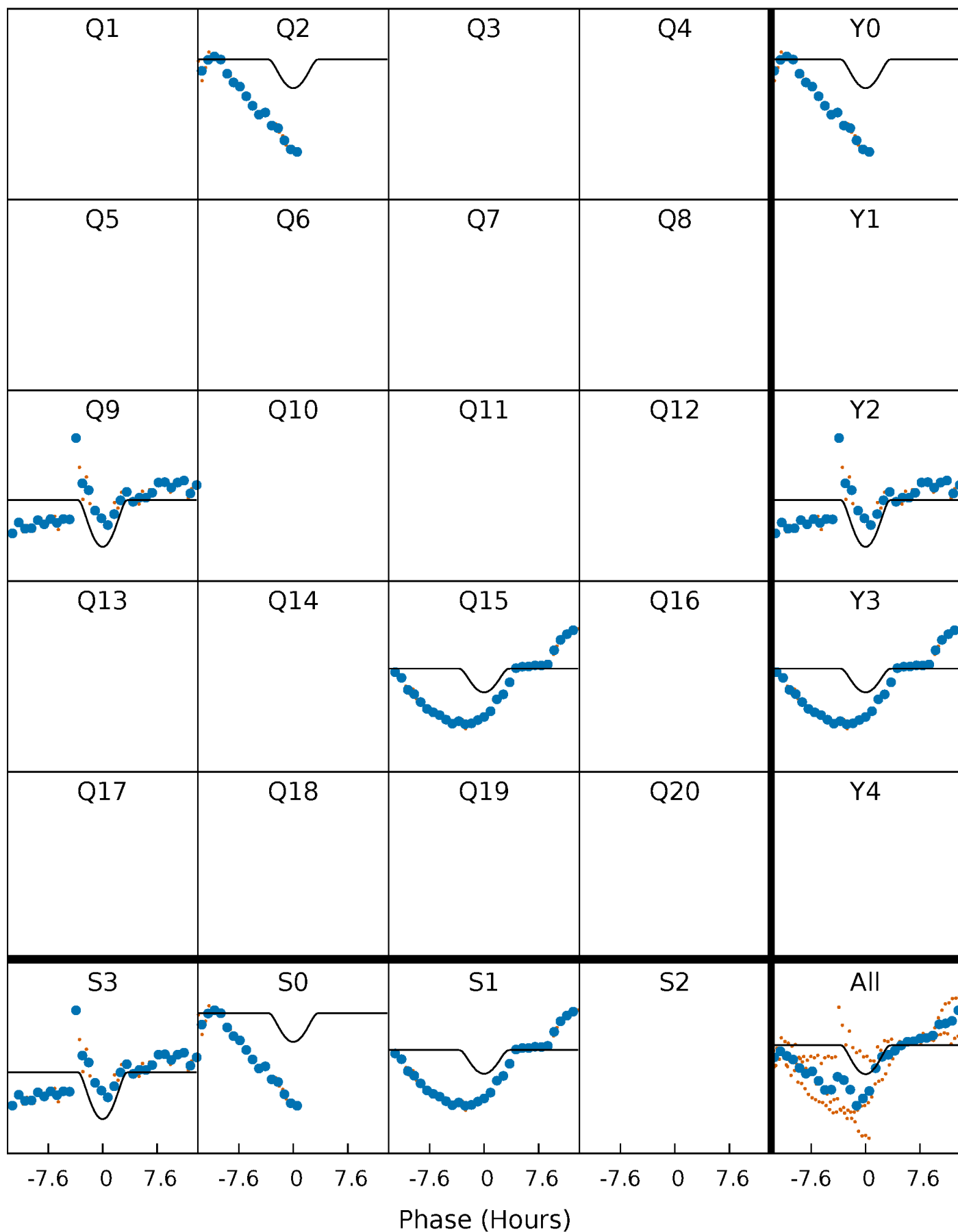
PDC Quarter-Phased Transit Curves

TCE 006191036-01 P=602.005214 Days $T_0=255.361322$ (BKJD)



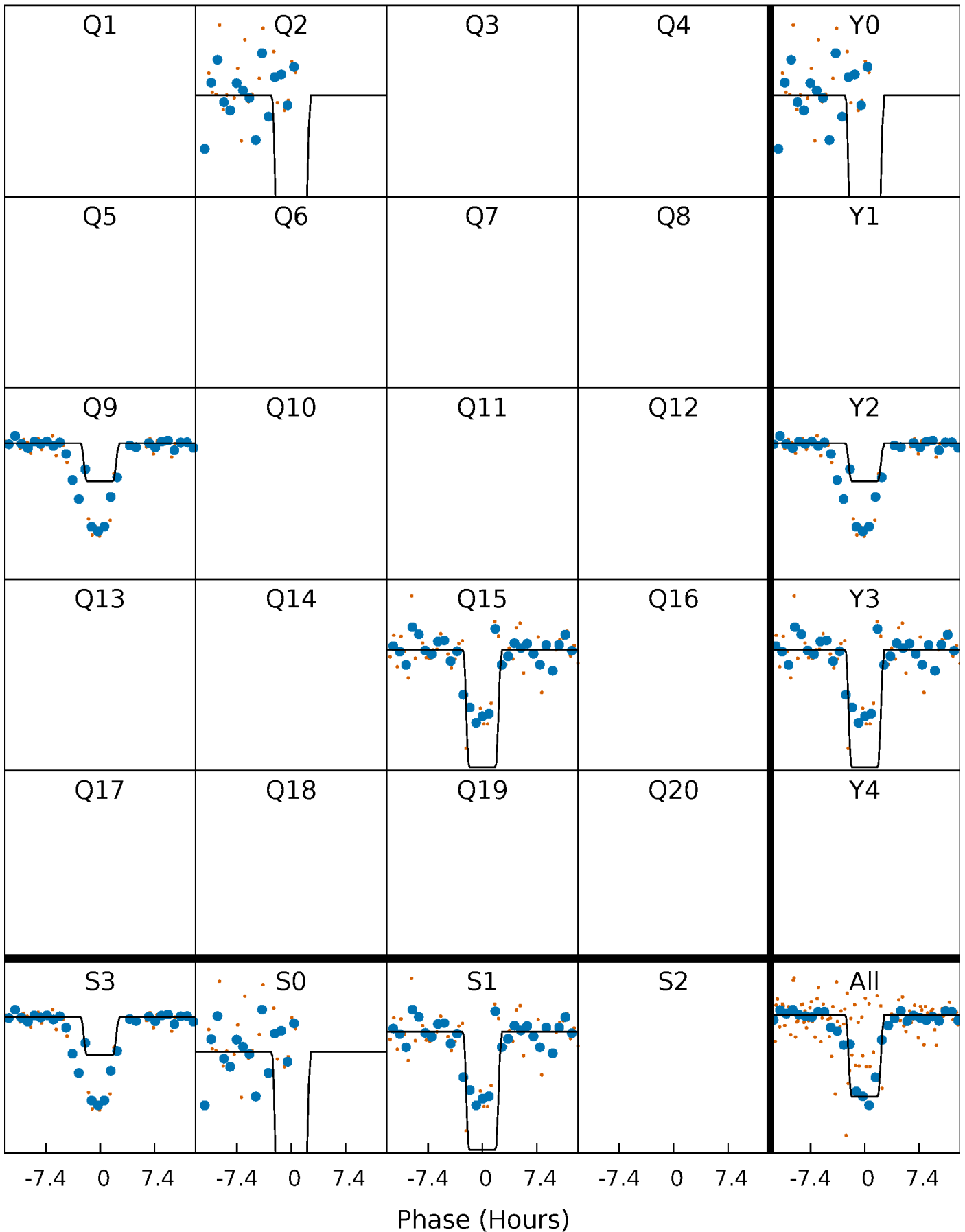
DV Quarter-Phased Transit Curves

TCE 006191036-01 P=602.005214 Days $T_0=255.361322$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

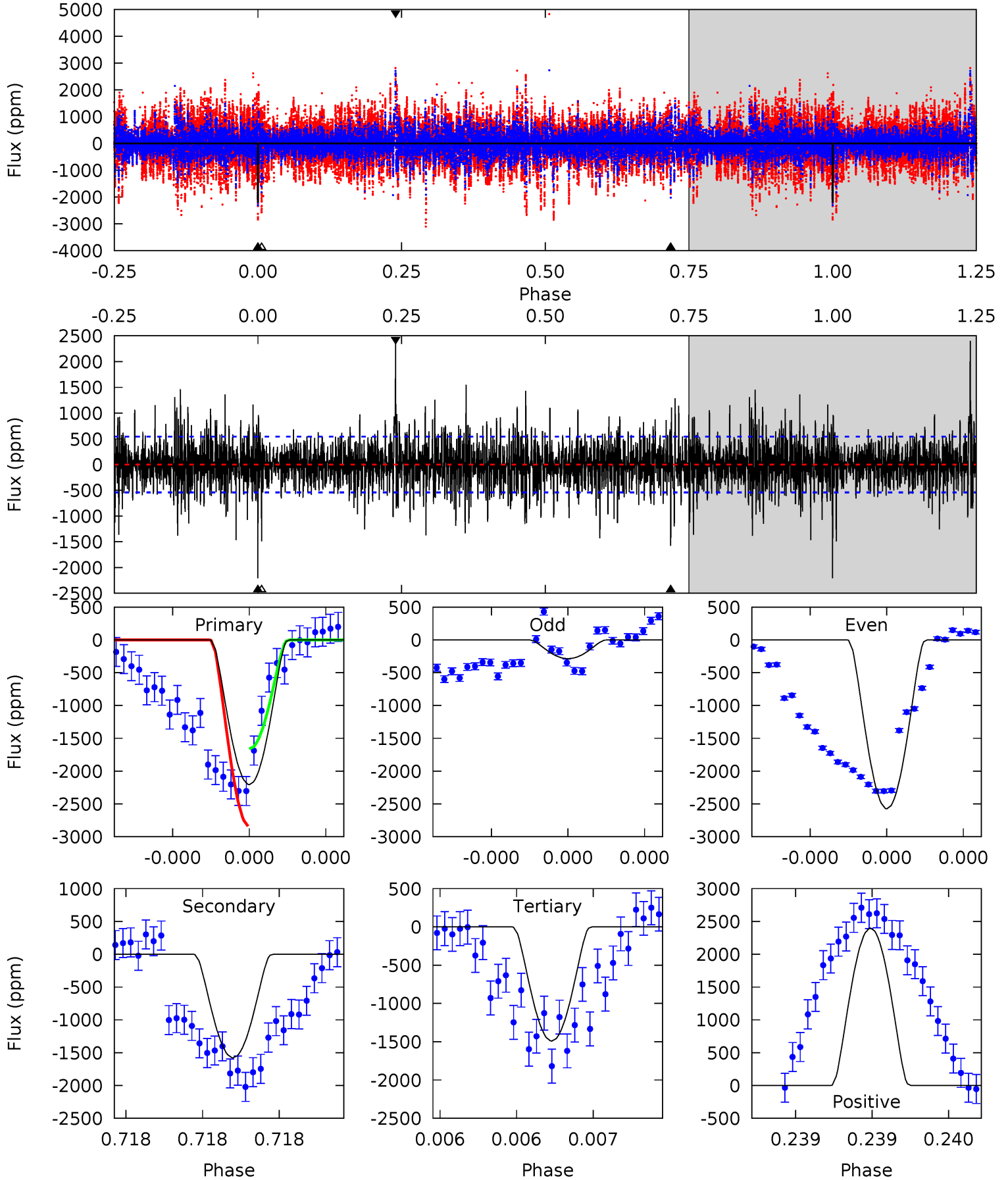
TCE 006191036-01 P=601.999922 Days $T_0=255.358154$ (BKJD)



DV Model-Shift Uniqueness Test

006191036-01, P = 602.005214 Days, E = 255.361322 Days

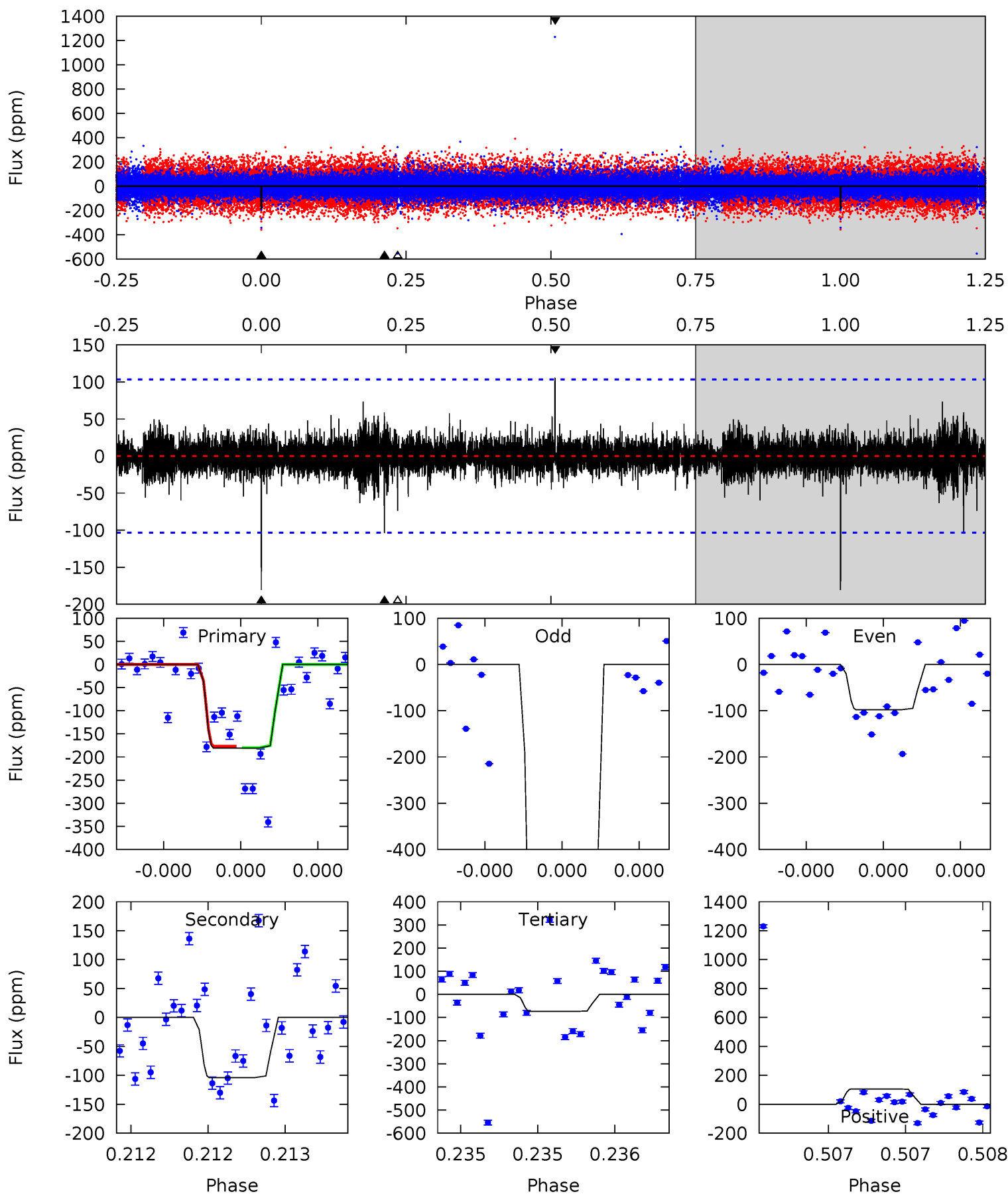
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.8	16.3	15.4	24.8	5.58	3.49	3.64	7.39	-1.99	0.90	-8.48	12.5	0.85	0.52	6.10



Alt Model-Shift Uniqueness Test

006191036-01, P = 601.999922 Days, E = 255.358154 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.85	5.66	4.02	5.76	5.64	3.58	0.66	5.82	4.09	1.63	-0.10	25.2	1.69	0.37	0



Stellar Parameters For KIC 006191036

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5942^{+161}_{-161}	$4.205^{+0.252}_{-0.168}$	$-0.180^{+0.300}_{-0.300}$	$1.286^{+0.345}_{-0.345}$	$0.968^{+0.146}_{-0.110}$	$0.641^{+0.921}_{-0.285}$
	+3%/-3%	+6%/-4%	+167%/-167%	+27%/-27%	+15%/-11%	+144%/-44%
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 006191036-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1578 ± 97	$11.99^{+11.71}_{-7.83}$	353^{+26}_{-29}	4283^{+2392}_{-888}	11693^{+85547}_{-8802}
Alt.	-104 ± 18	$9.98^{+10.77}_{-6.94}$	351^{+25}_{-27}	2914^{+1330}_{-485}	1124^{+10948}_{-876}

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

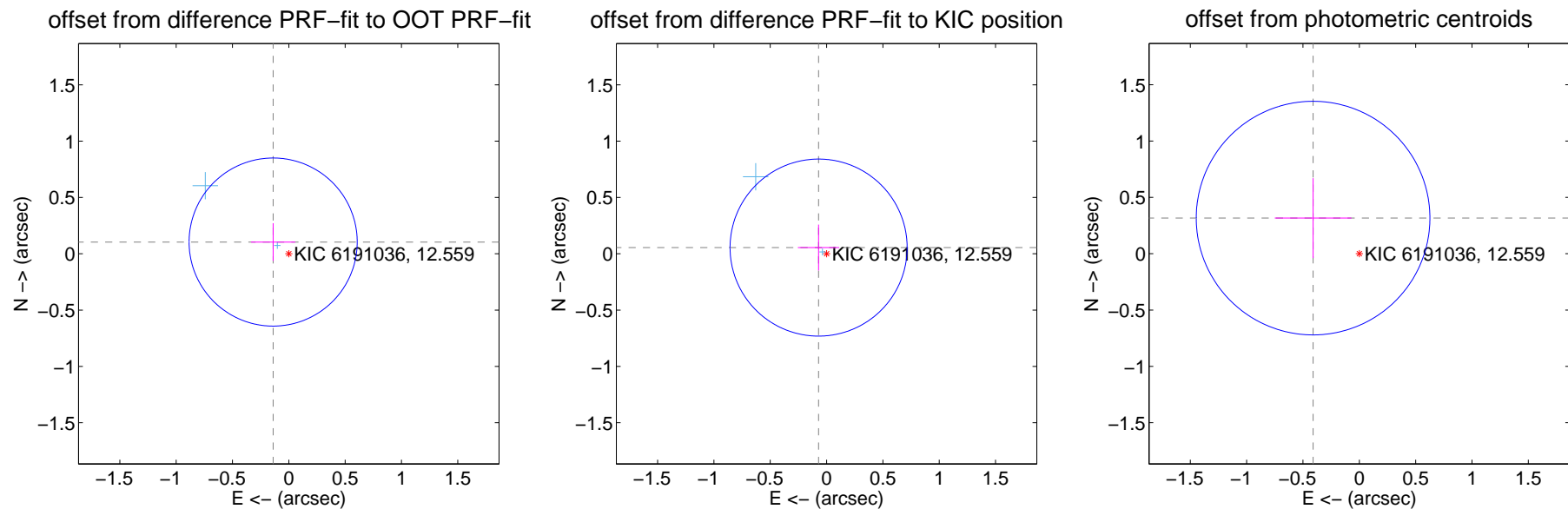
DV Centroid Data

Supplemental centroid analysis for 006191036-01. Kepler magnitude: 12.56. Transit SNR 7.94

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.174 ± 0.249	0.70	0.139 ± 0.196	0.104 ± 0.167
PRF-fit source offset from KIC position	0.090 ± 0.262	0.34	0.071 ± 0.184	0.055 ± 0.204
photometric centroid source offset	0.52 ± 0.35	1.50	0.41 ± 0.34	0.32 ± 0.35



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.

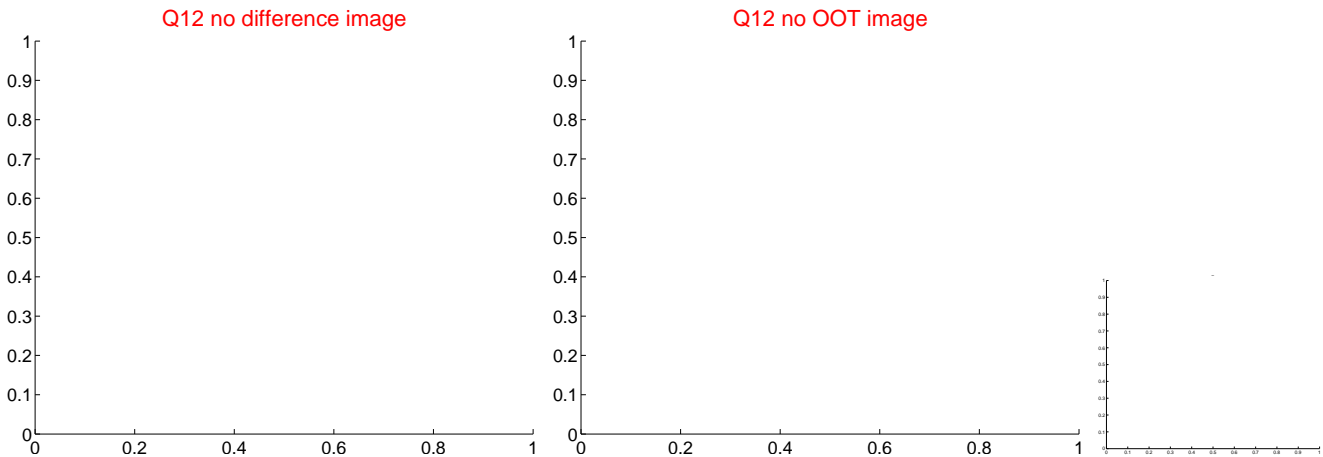
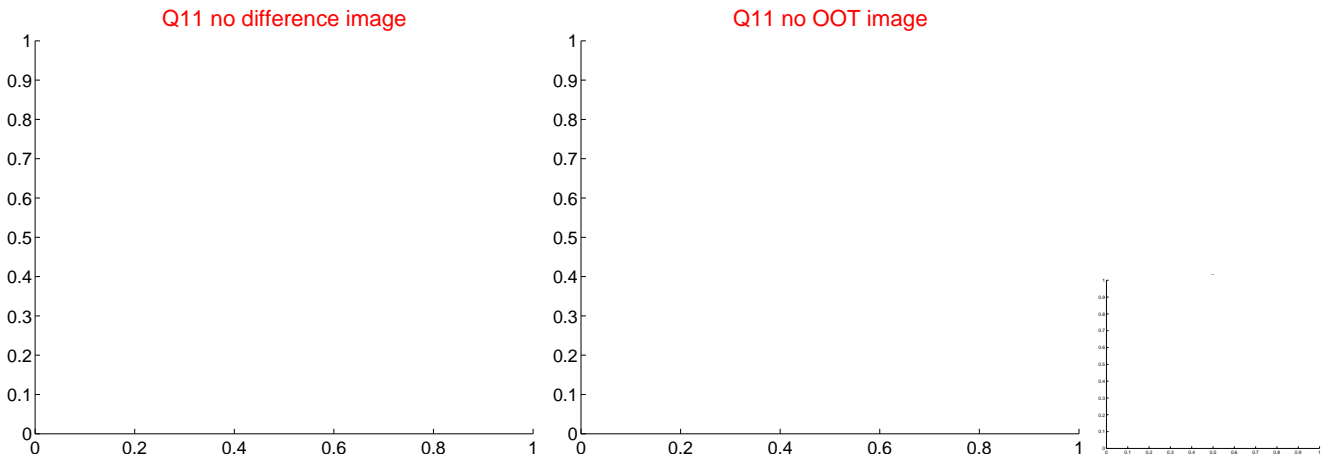
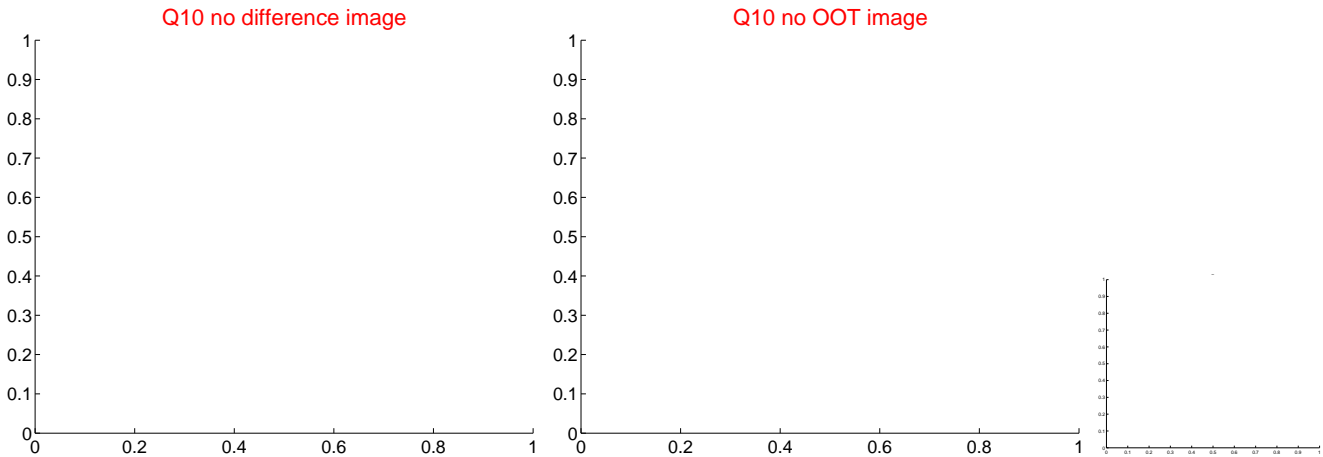
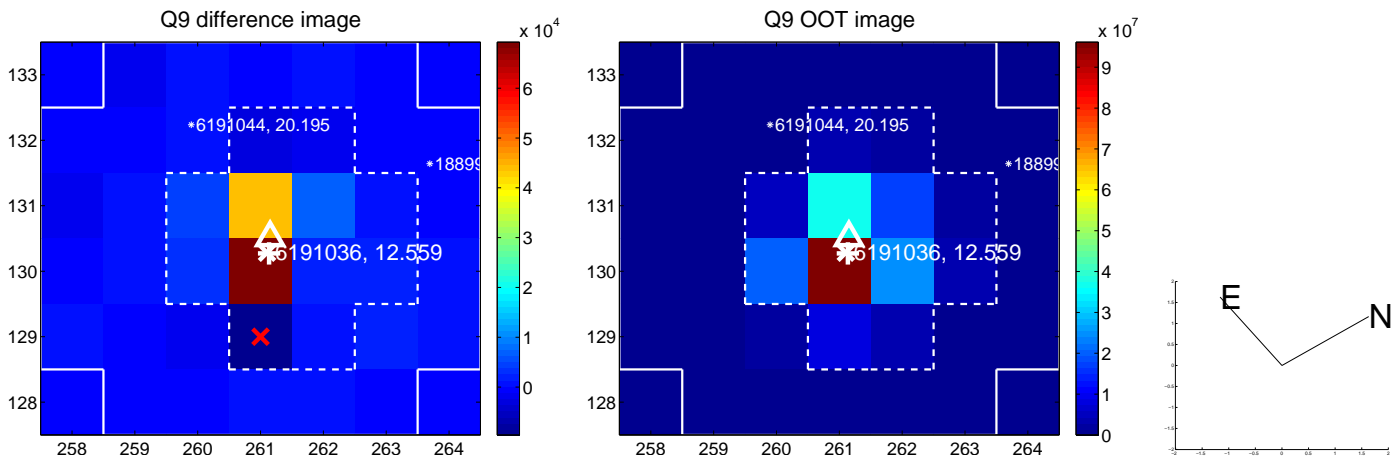
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



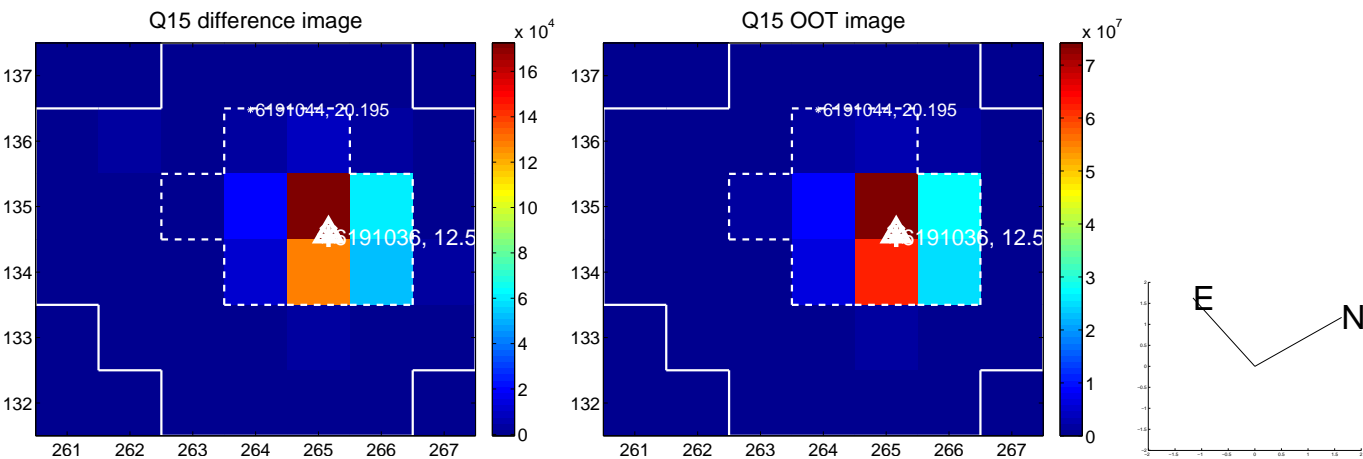
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



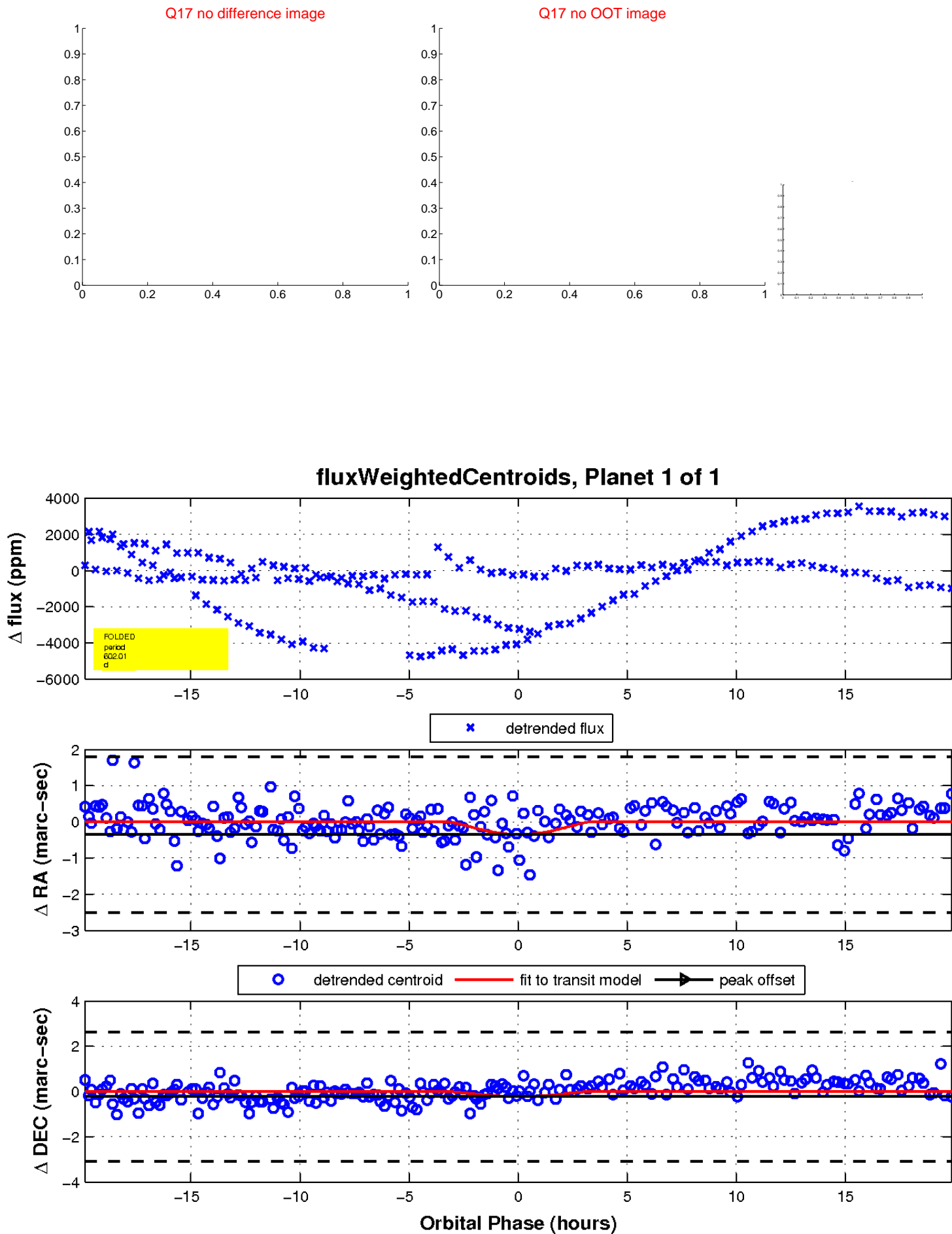
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

