

KIC 011460213

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})
011460213-01	OBS	No	0.885852	131.954744	436.5	1.500	8.4	-1.0	1.21	6396	2.54	6175.96

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011460213-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS

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

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

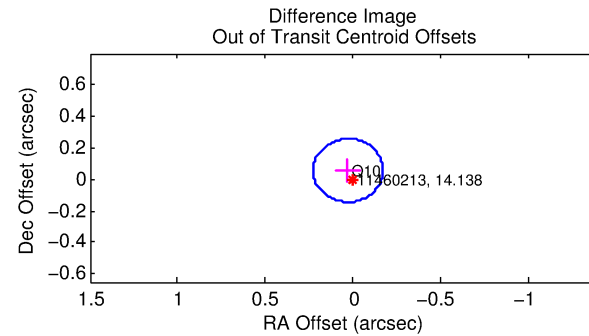
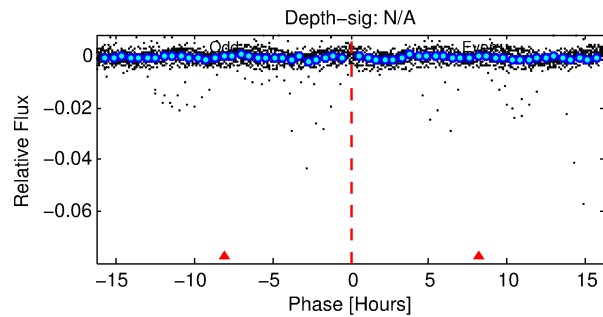
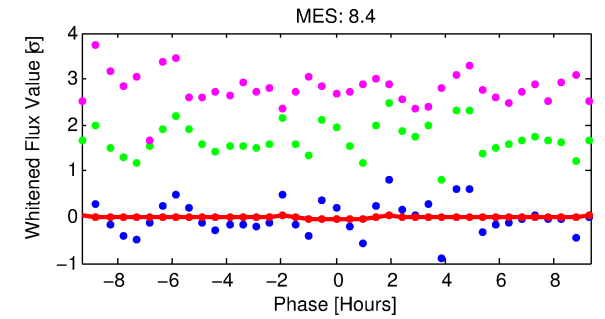
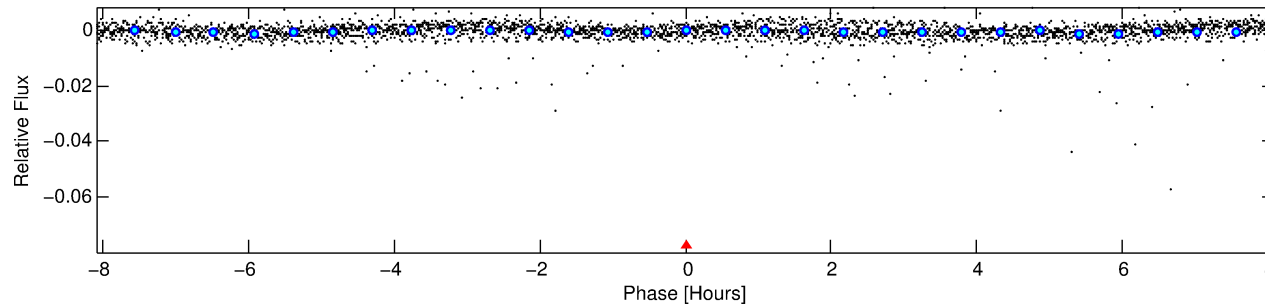
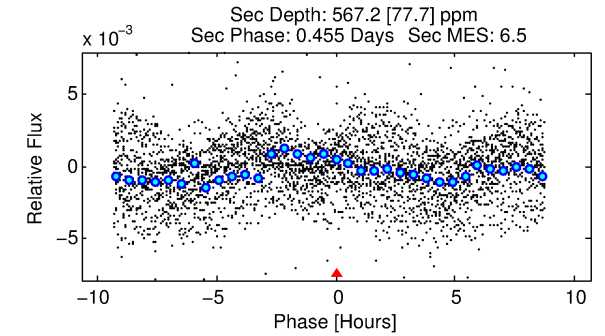
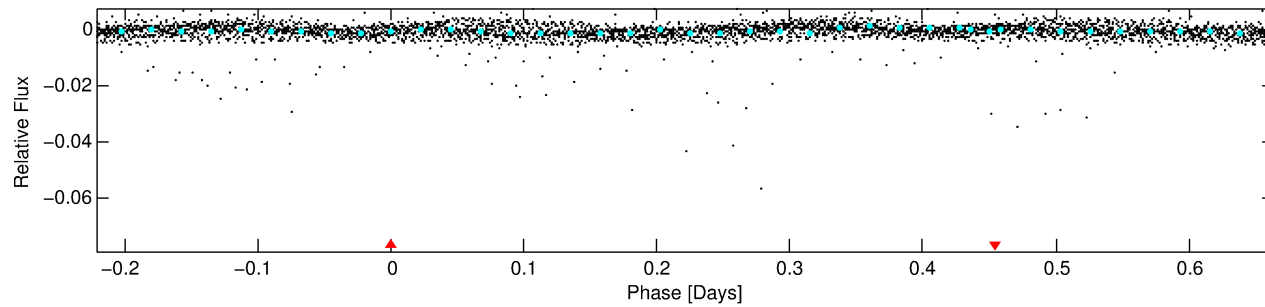
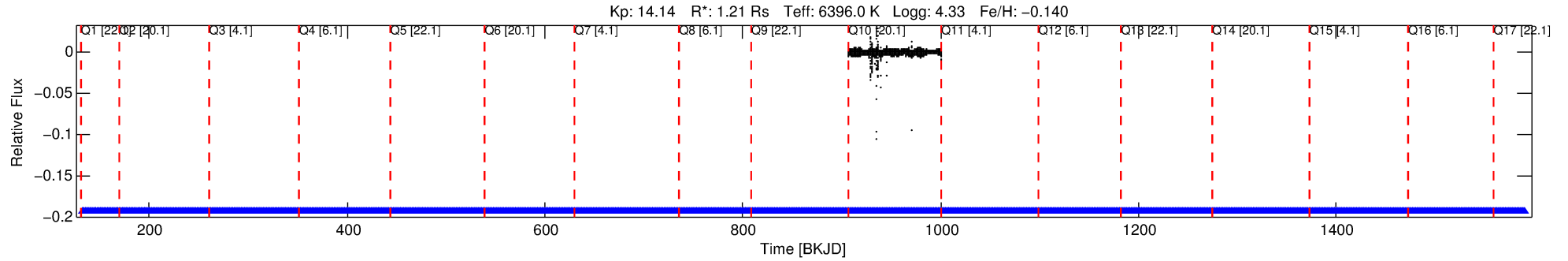
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011460213-01

No Significant Match Found

DV One-Page Summary

KIC: 11460213 Candidate: 1 of 1 Period: 0.886 d



TPS TCE Results:

Period = 0.88585 d
Epoch = 131.9547 BKJD

DV fit results are unavailable

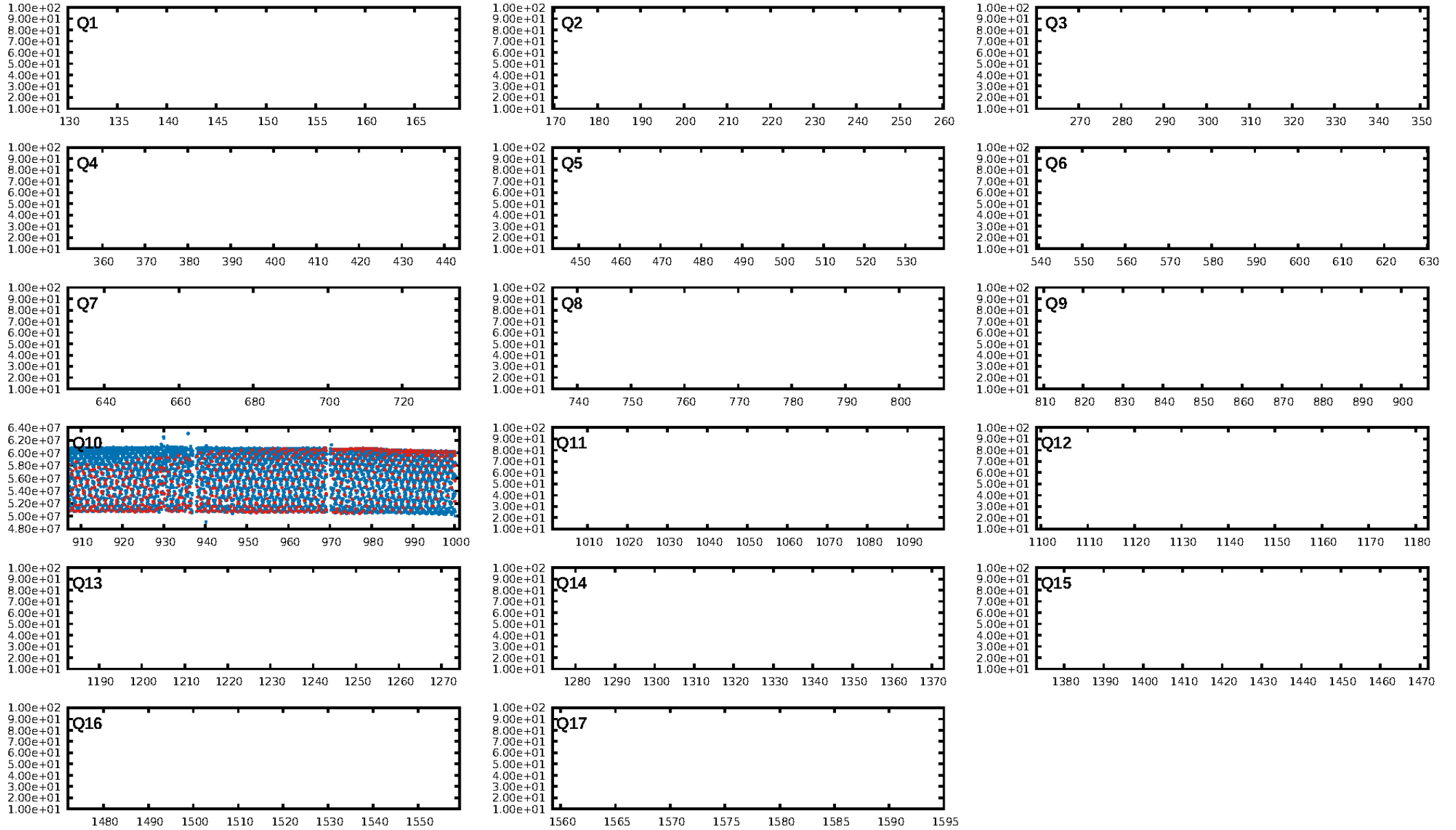
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.04e-18
RollingBand-fgt: 1.00 [104/104]
GhostDiagnostic-chr: 0.831
Centroid-sig: 0.1%
Centroid-so: 0.277 arcsec [125.47σ]
OotOffset-rm: 0.066 arcsec [0.98σ]
KicOffset-rm: 0.191 arcsec [2.86σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [1/1]

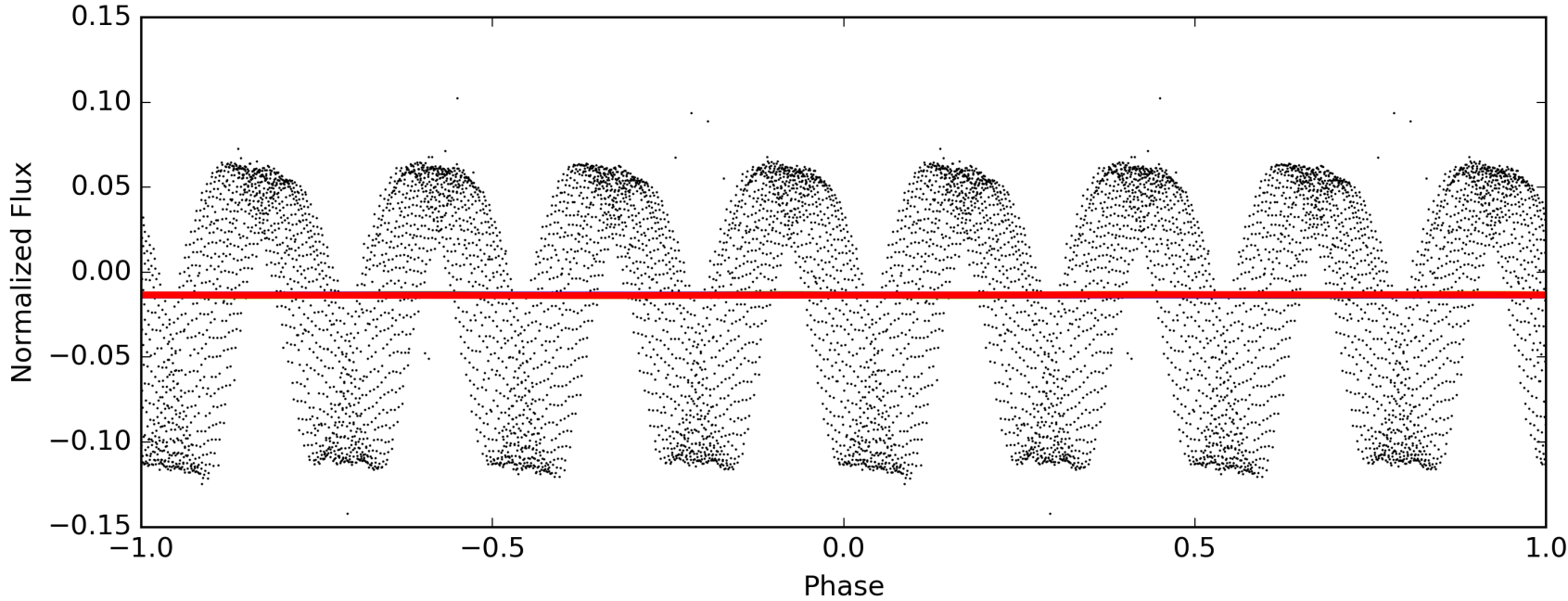
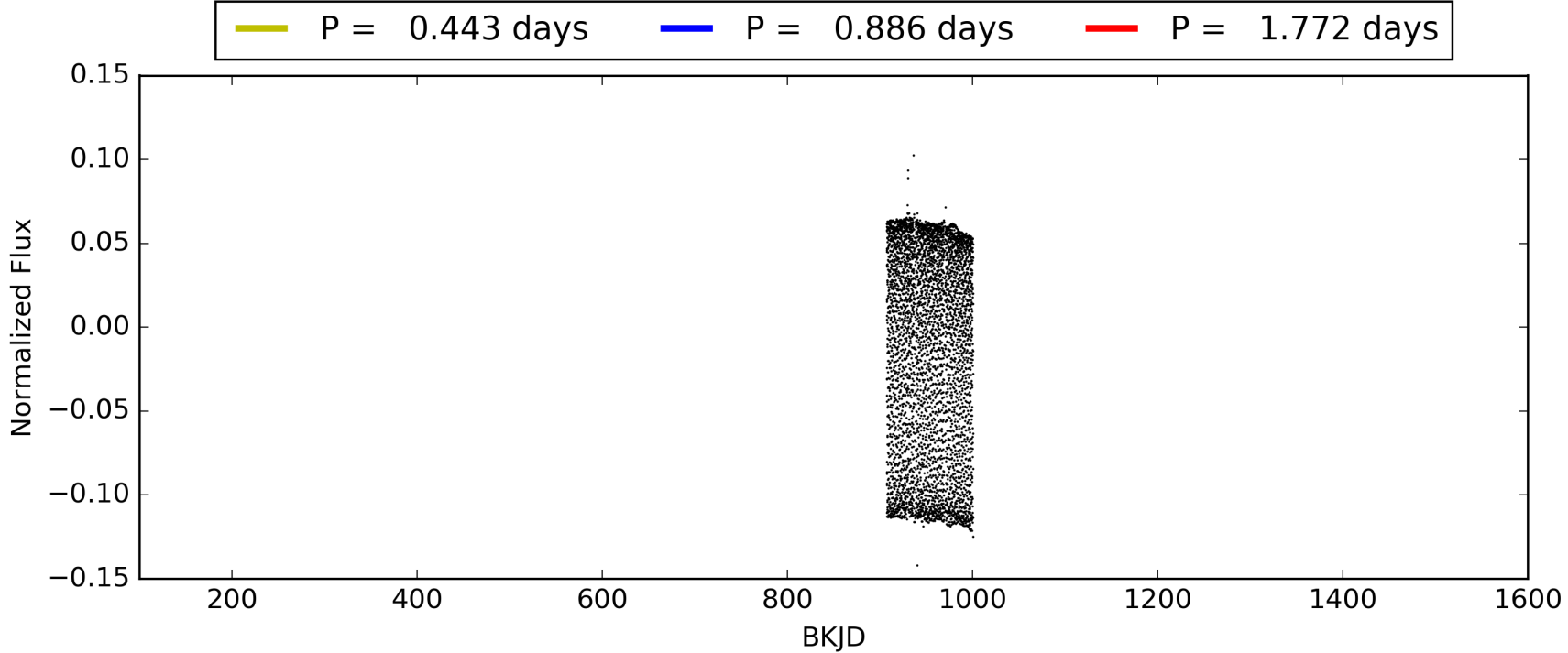
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 21:29:38 Z

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

TCE 011460213-01, PDC Light Curves

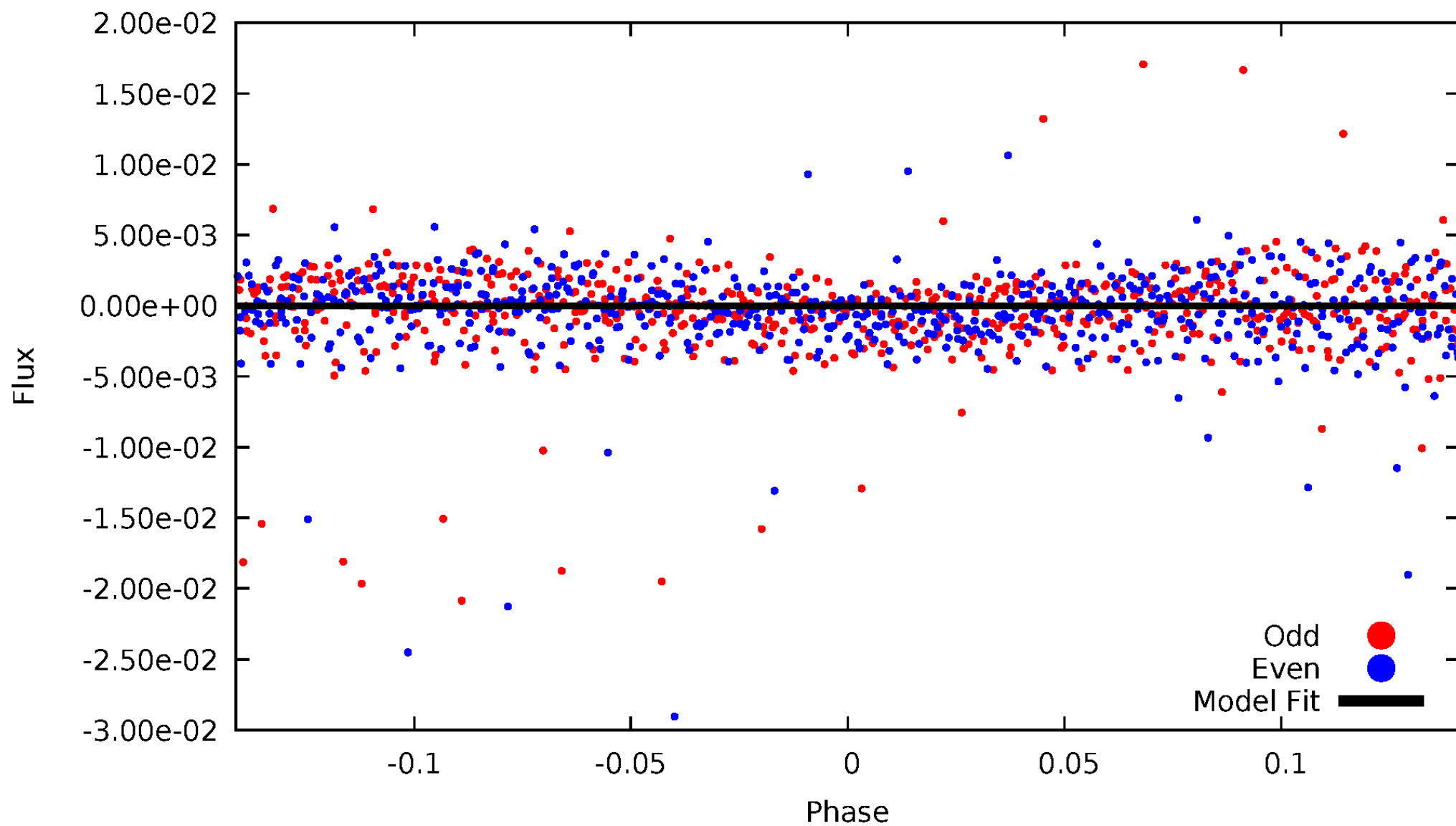


TCE 011460213-01



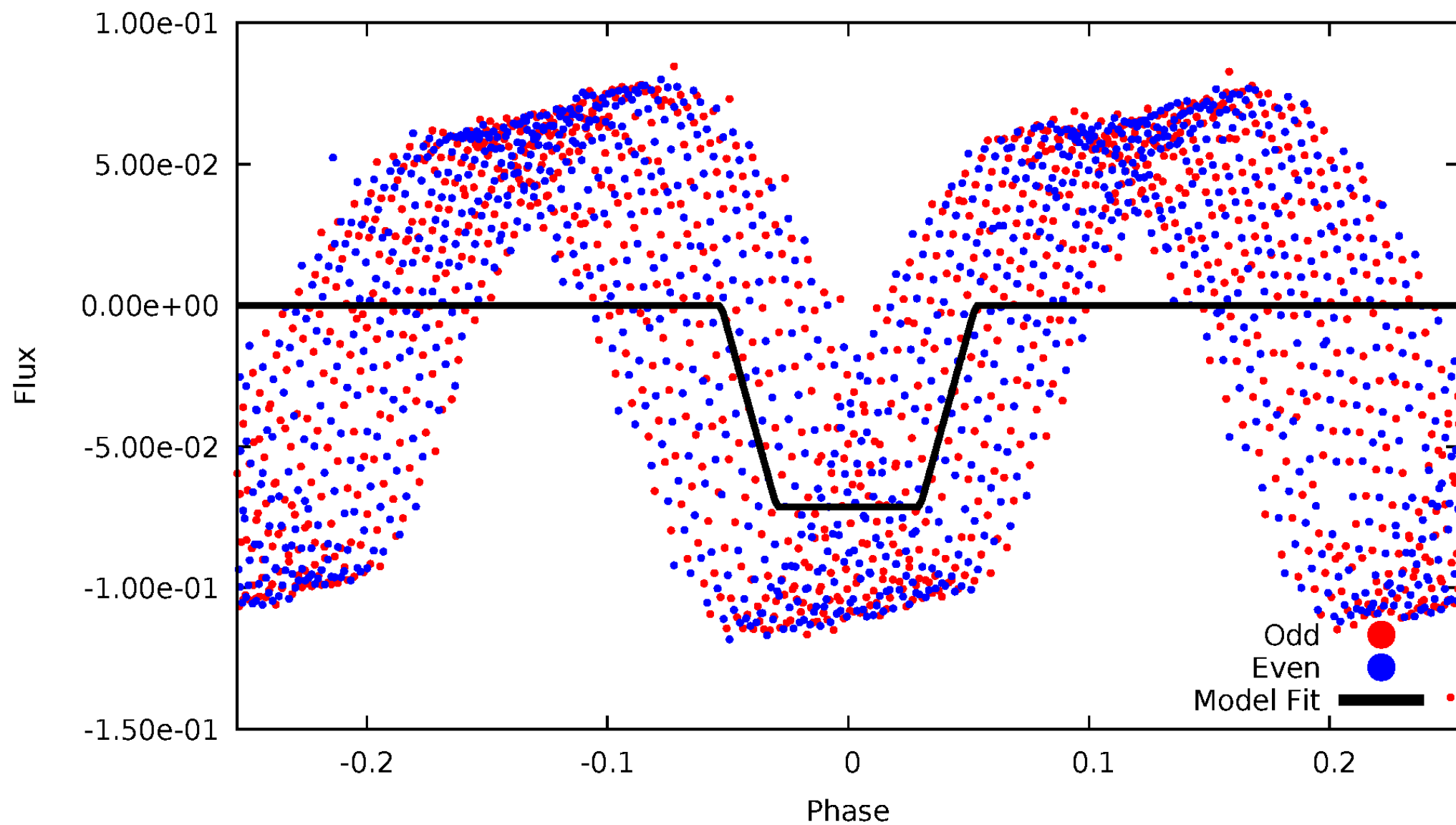
DV Odd/Even

TCE 011460213-01



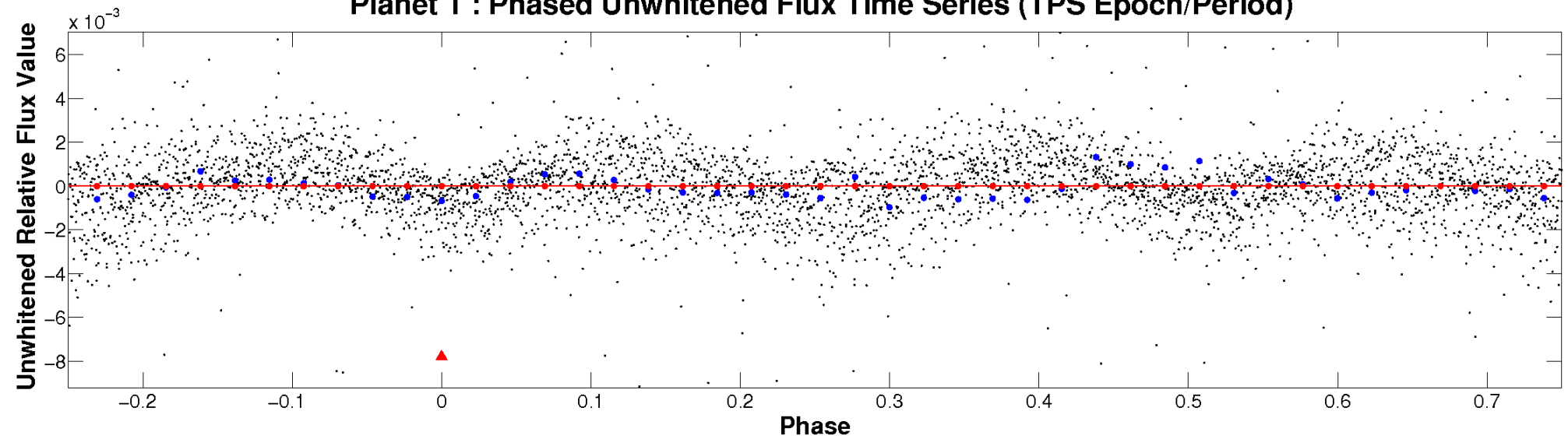
ALT Odd/Even

TCE 011460213-01

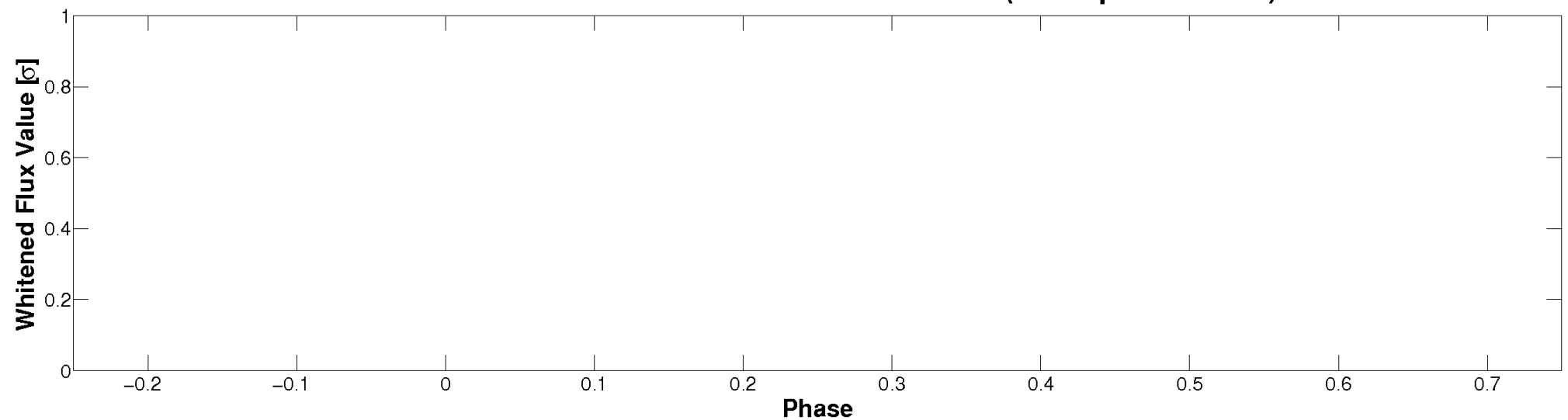


Non-Whitened Vs. Whitened Light Curve

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

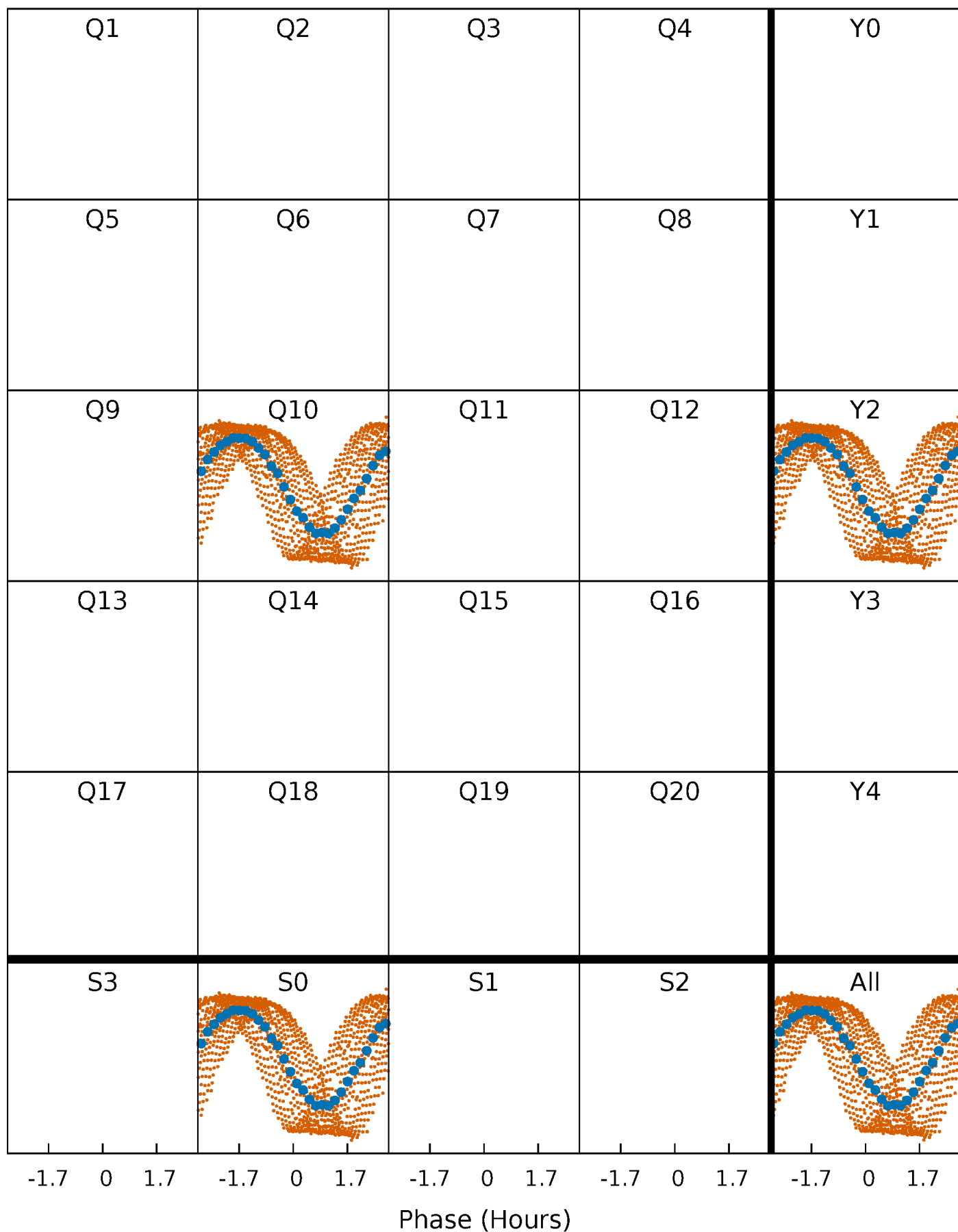


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011460213-01 P= 0.885852 Days $T_0=131.954744$ (BKJD)



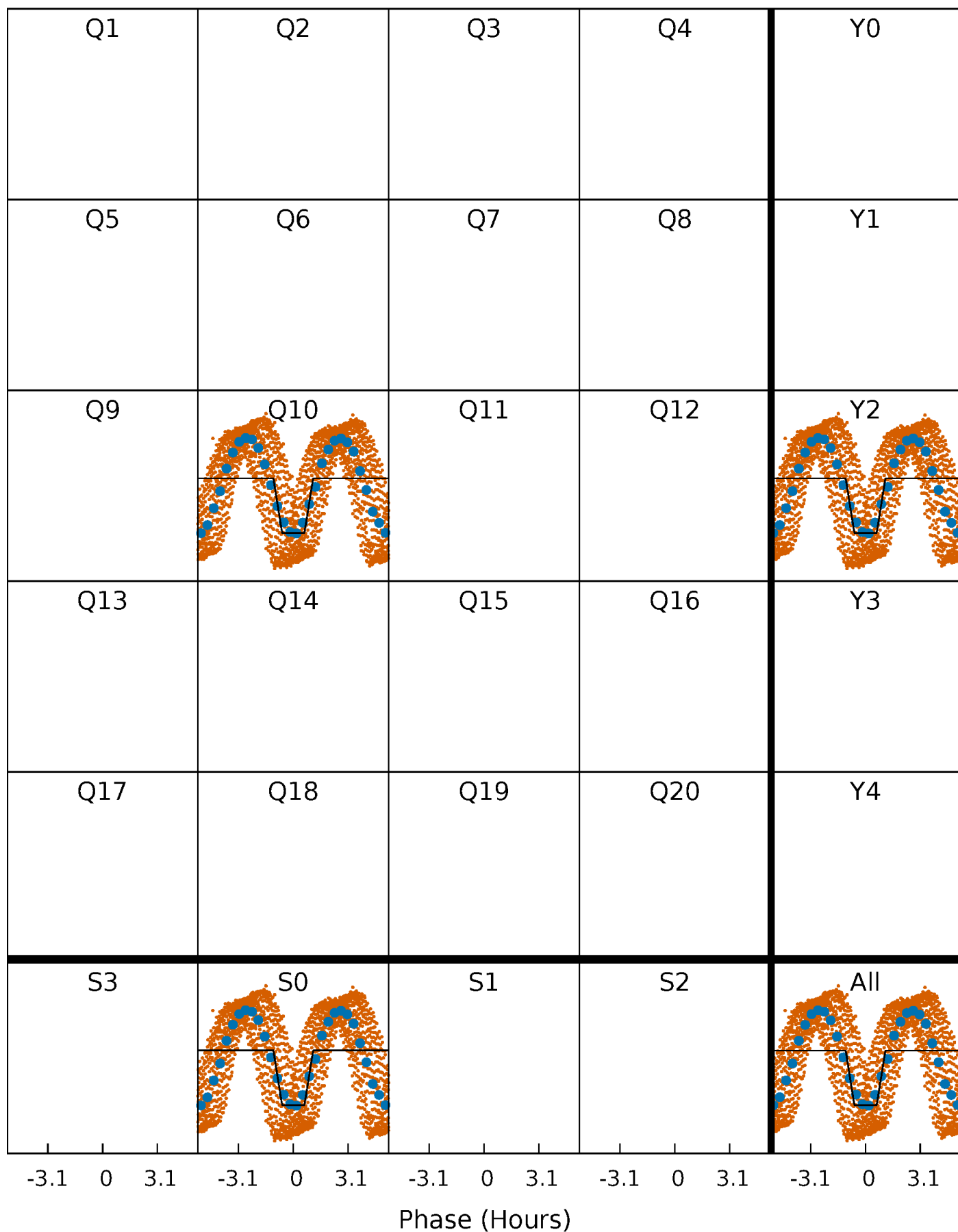
DV Quarter-Phased Transit Curves

TCE 011460213-01 P= 0.885852 Days $T_0=131.954744$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

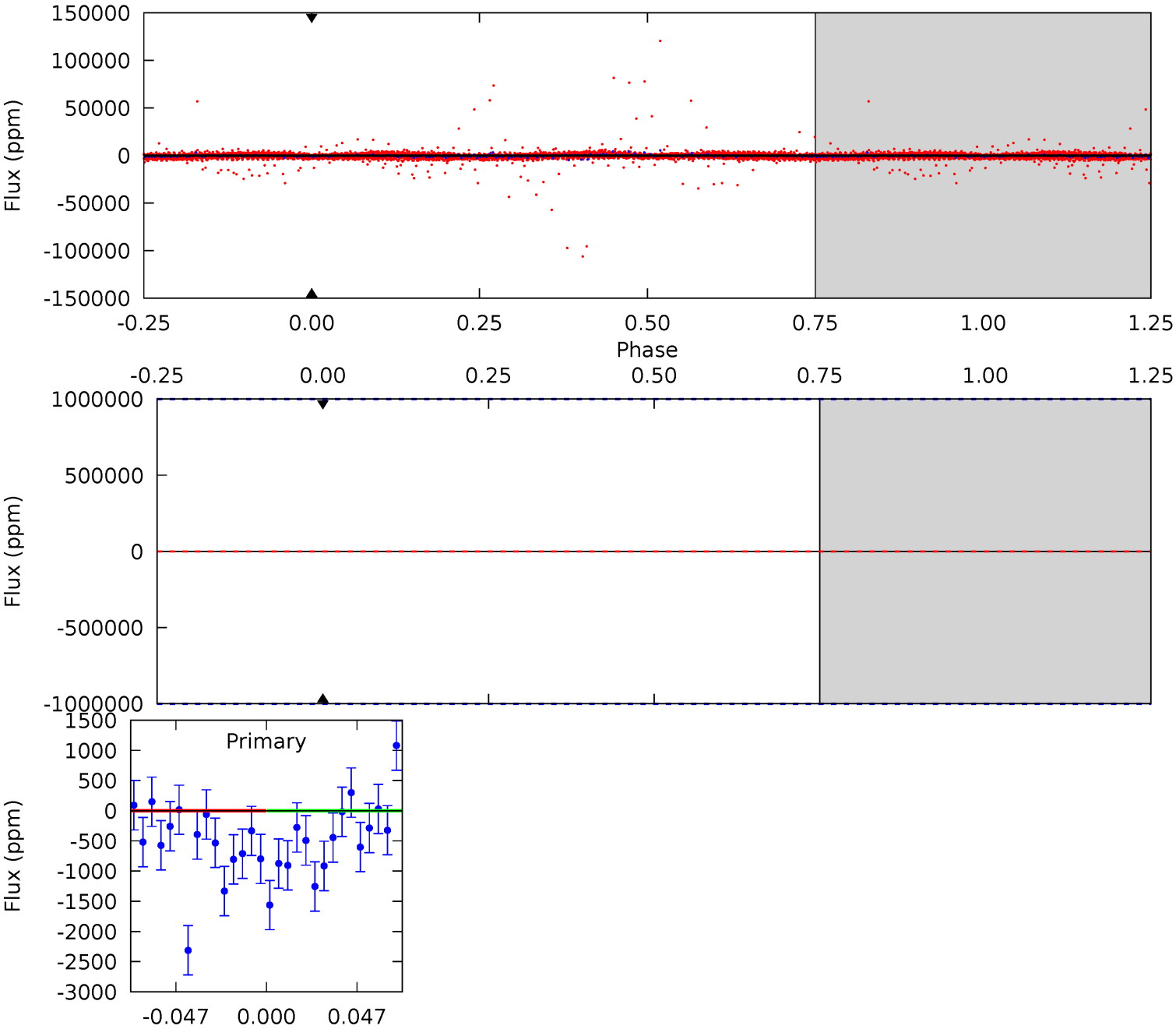
TCE 011460213-01 P= 0.885852 Days $T_0=131.993245$ (BKJD)



DV Model-Shift Uniqueness Test

011460213-01, P = 0.885852 Days, E = 131.954744 Days

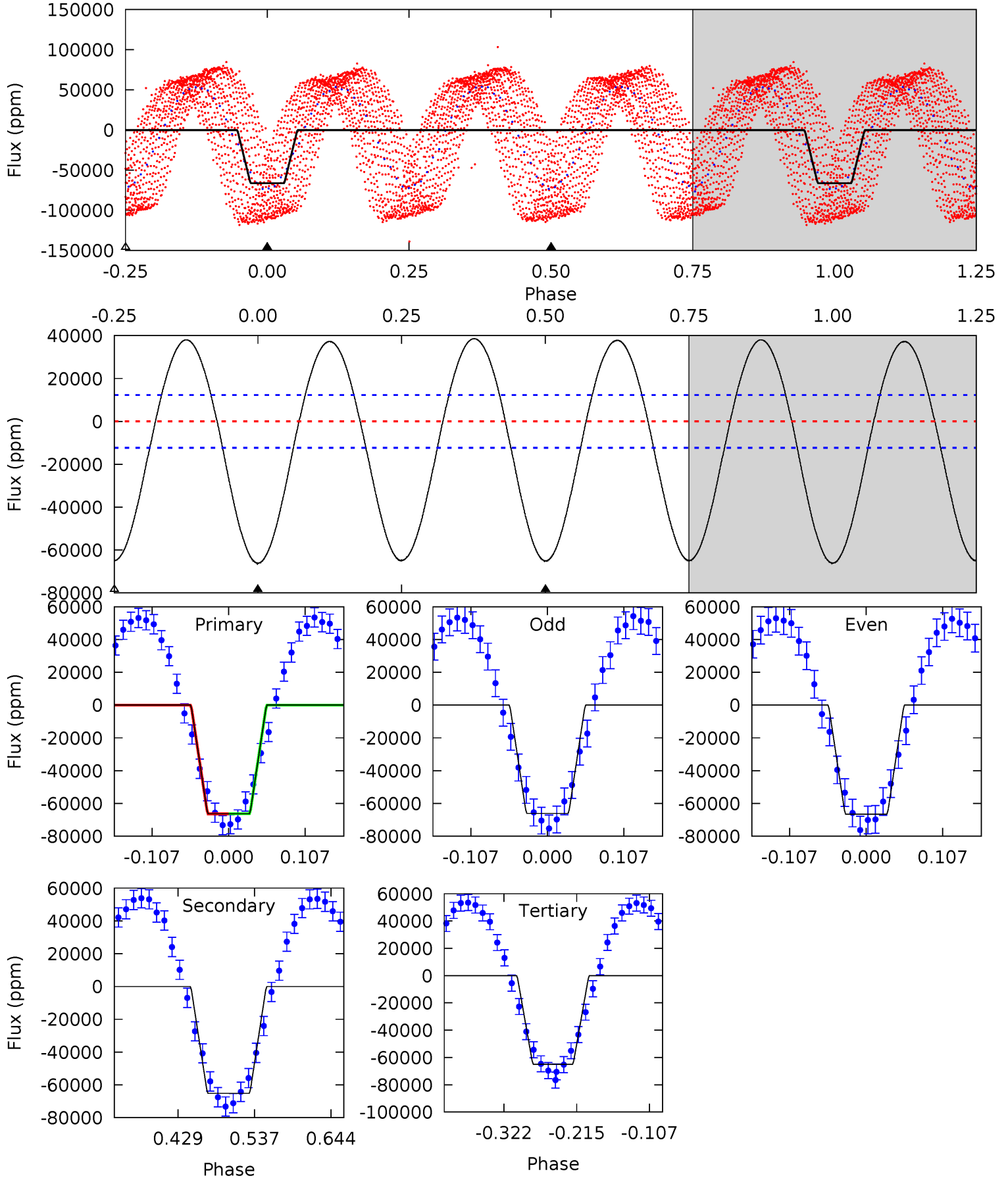
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011460213-01, P = 0.885852 Days, E = 131.993245 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.6	24.2	24.1	0	4.55	1.61	13.9	0.48	24.6	0.08	24.2	0.08	0.92	0.37	0.02



Stellar Parameters For KIC 011460213

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6396^{+179}_{-246}	$4.327^{+0.105}_{-0.195}$	$-0.140^{+0.250}_{-0.300}$	$1.205^{+0.400}_{-0.171}$	$1.123^{+0.185}_{-0.152}$	$0.904^{+0.440}_{-0.472}$
	+3%/-4%	+2%/-5%	+179%/-214%	+33%/-14%	+16%/-14%	+49%/-52%
Source	KIC0	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 011460213-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$10.15^{+11.00}_{-7.34}$	3204^{+240}_{-185}	-2310^{+28049}_{-21648}	$0.279^{+307.203}_{-317.103}$
Alt.	-65202 ± 2698	$37.31^{+13.89}_{-13.85}$	3176^{+231}_{-181}	6189^{+1785}_{-838}	$9.661^{+14.902}_{-4.412}$

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 $A_{obs} \gg 1.0$

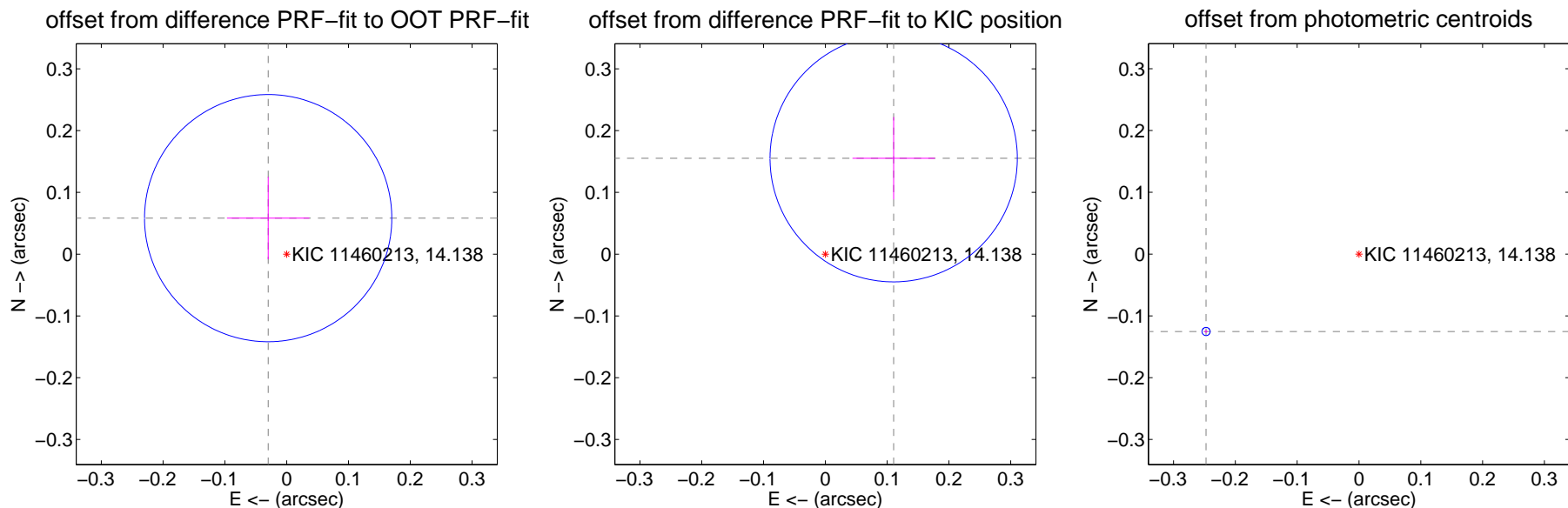
DV Centroid Data

Supplemental centroid analysis for 011460213-01. Kepler magnitude: 14.14. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.066 ± 0.067	0.98	0.030 ± 0.067	0.058 ± 0.067
PRF-fit source offset from KIC position	0.191 ± 0.067	2.86	-0.111 ± 0.067	0.155 ± 0.067
photometric centroid source offset	0.28 ± 0.00	125.47	0.25 ± 0.00	-0.13 ± 0.00



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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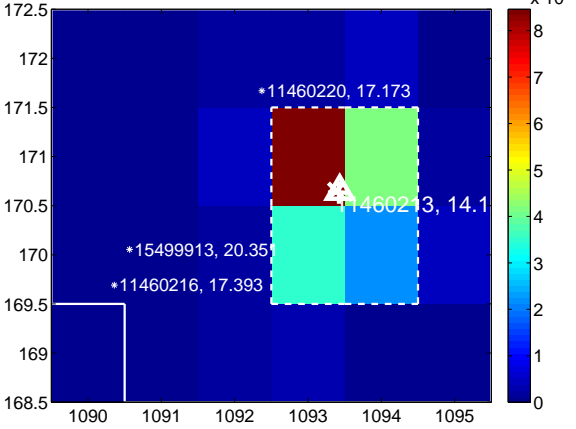
Q9 no difference image



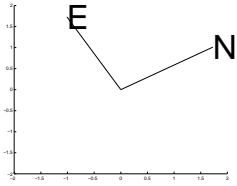
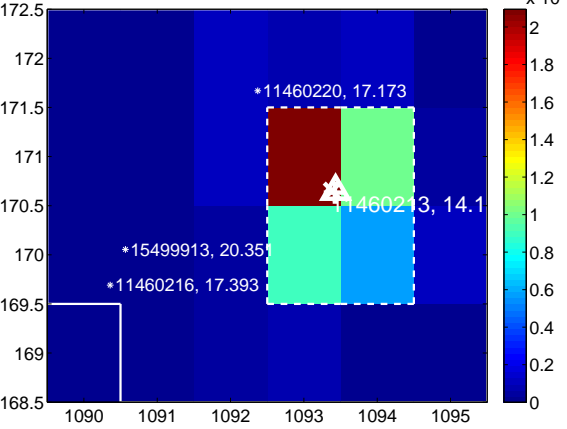
Q9 no OOT image



Q10 difference image



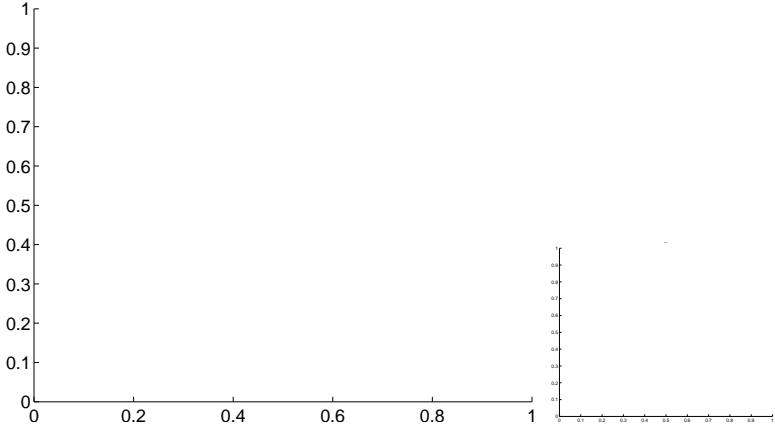
Q10 OOT image



Q11 no difference image



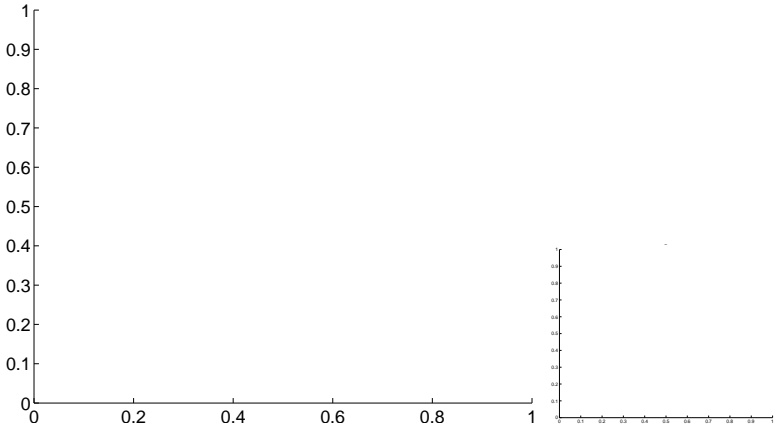
Q11 no OOT image



Q12 no difference image



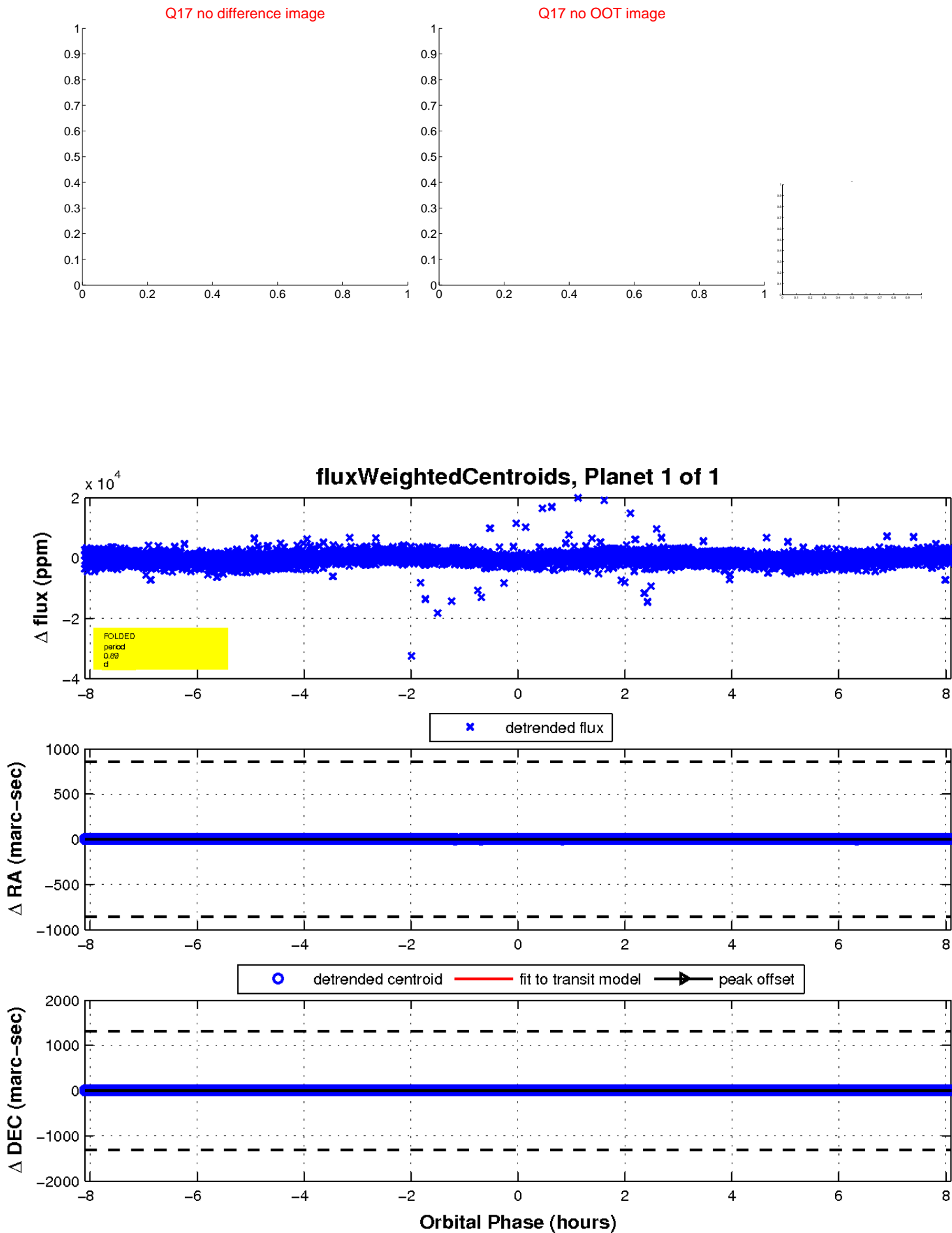
Q12 no OOT image



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

