

KIC 011911214

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})
011911214-01	OBS	No	464.953097	312.360816	252.8	30.011	7.6	9.7	2.40	6646	3.91	5.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011911214-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—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.

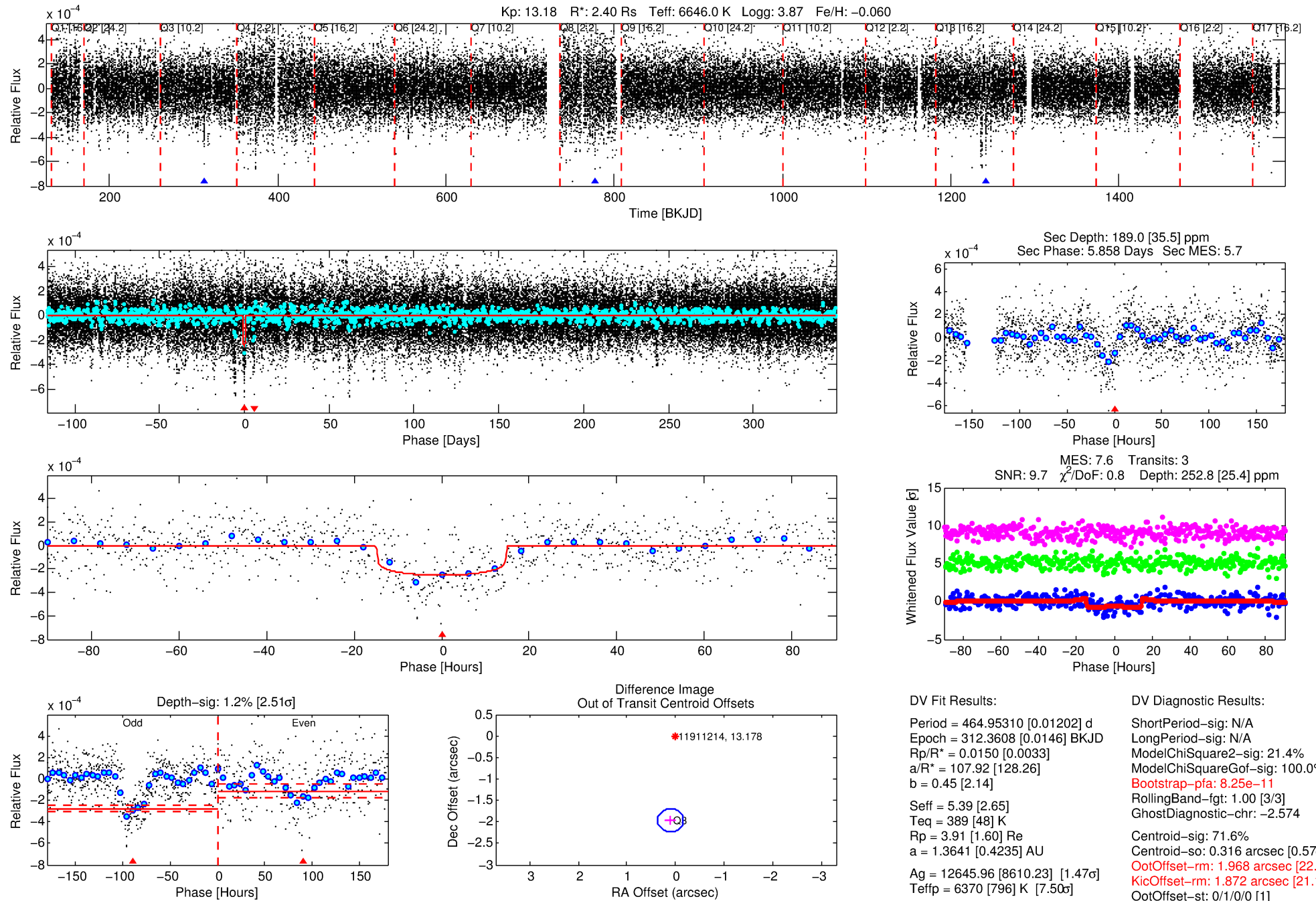
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011911214-01

No Significant Match Found

DV One-Page Summary

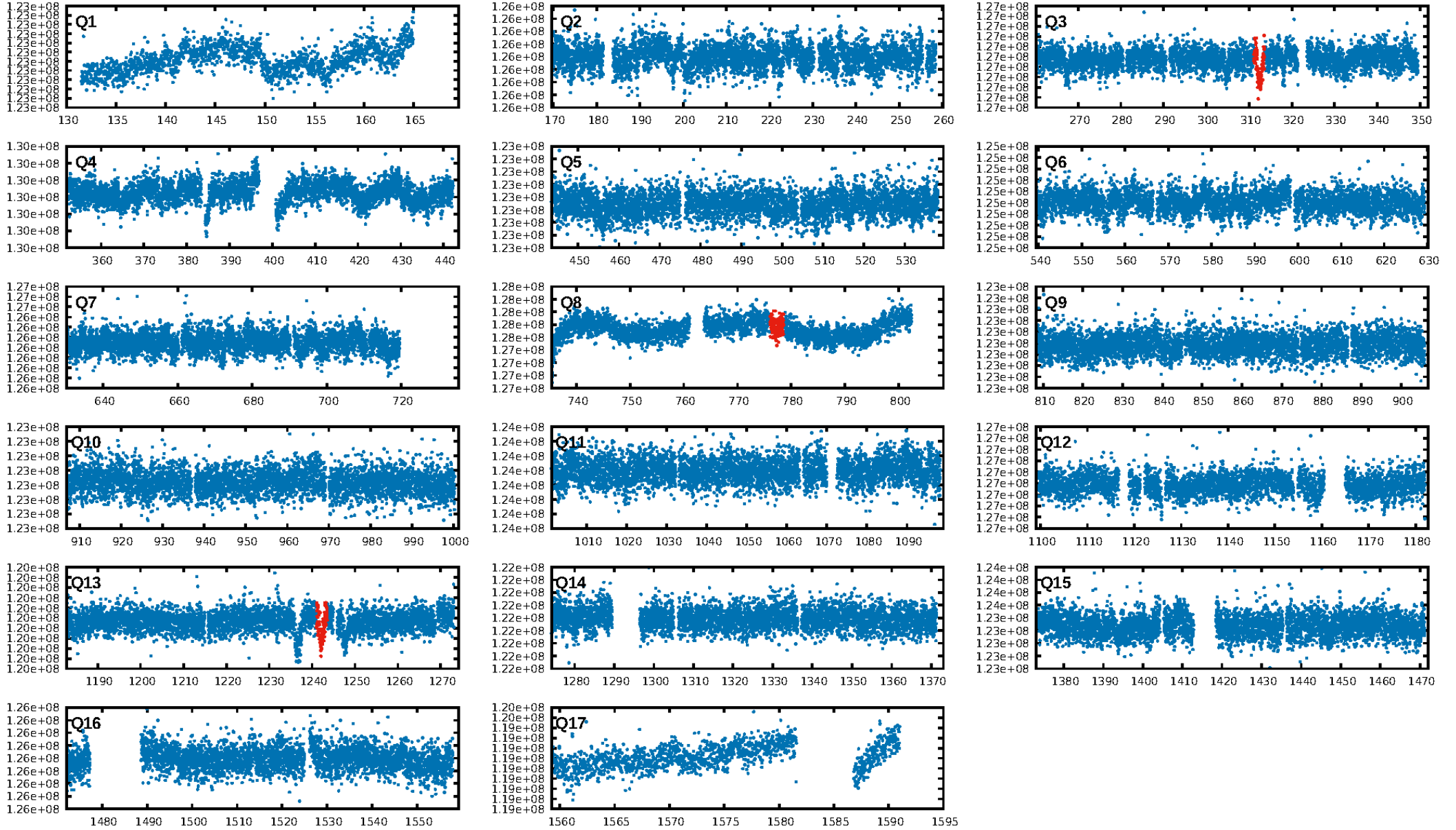
KIC: 11911214 Candidate: 1 of 1 Period: 464.953 d



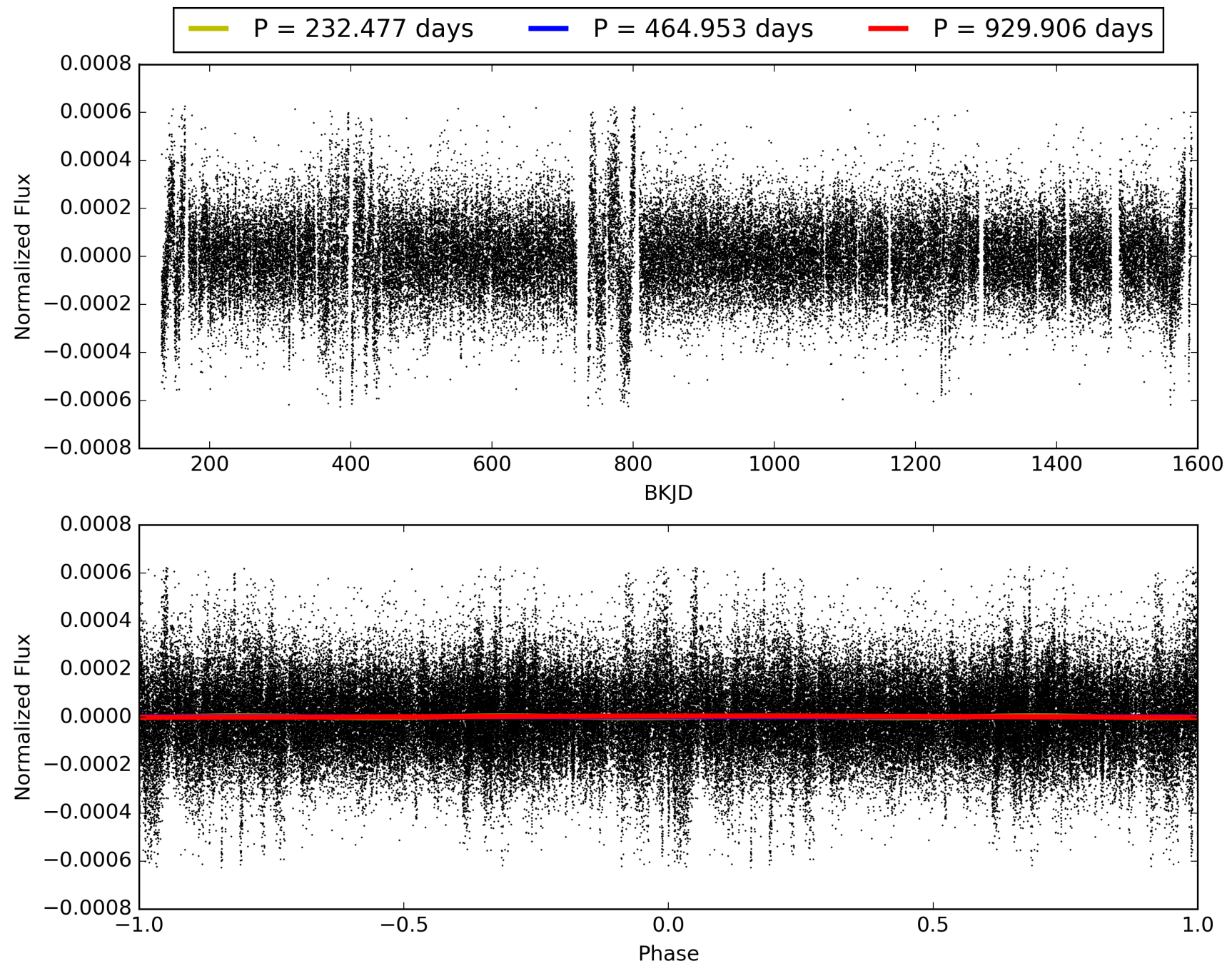
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:40:49 Z

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

TCE 011911214-01, PDC Light Curves

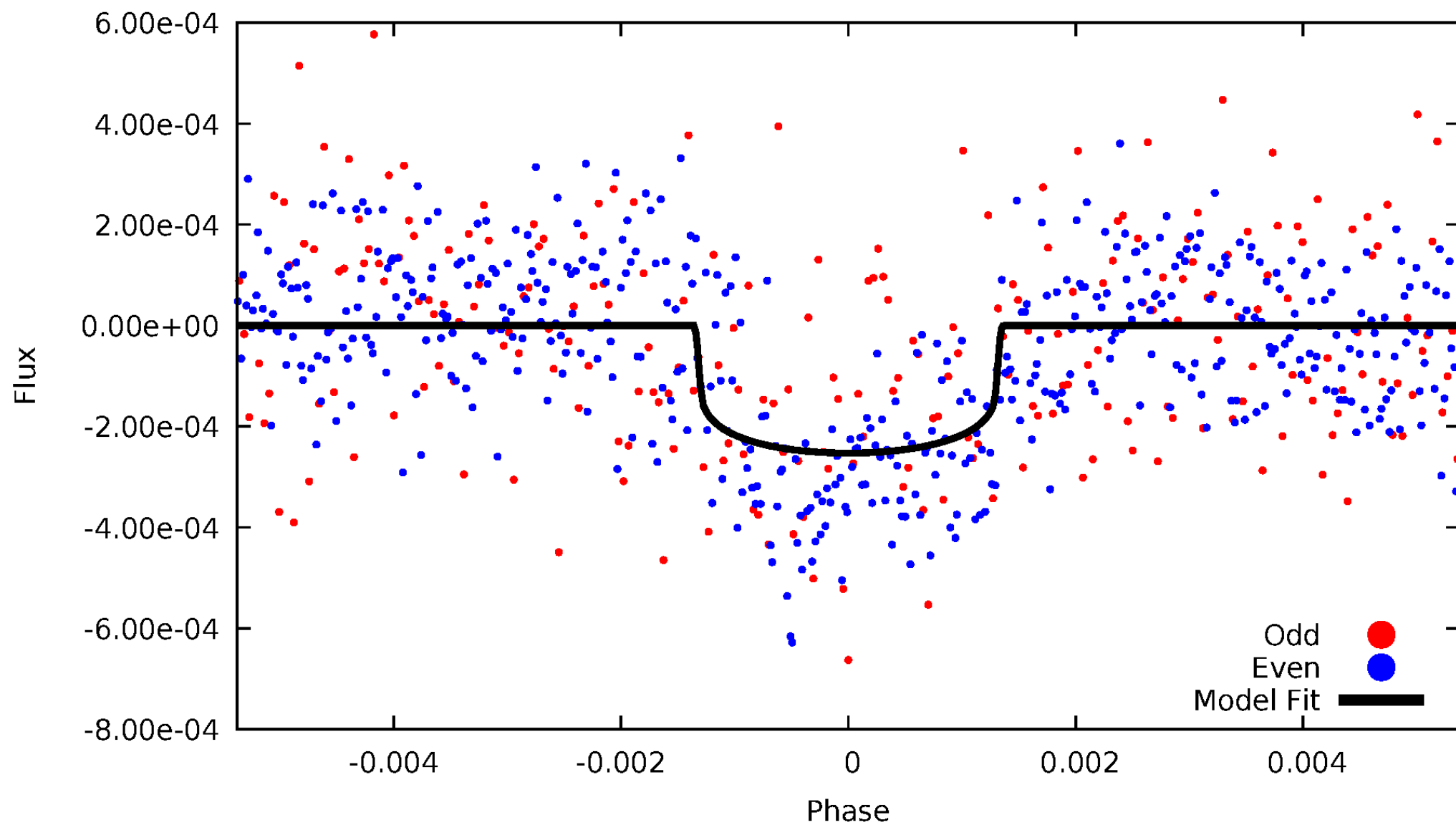


TCE 011911214-01



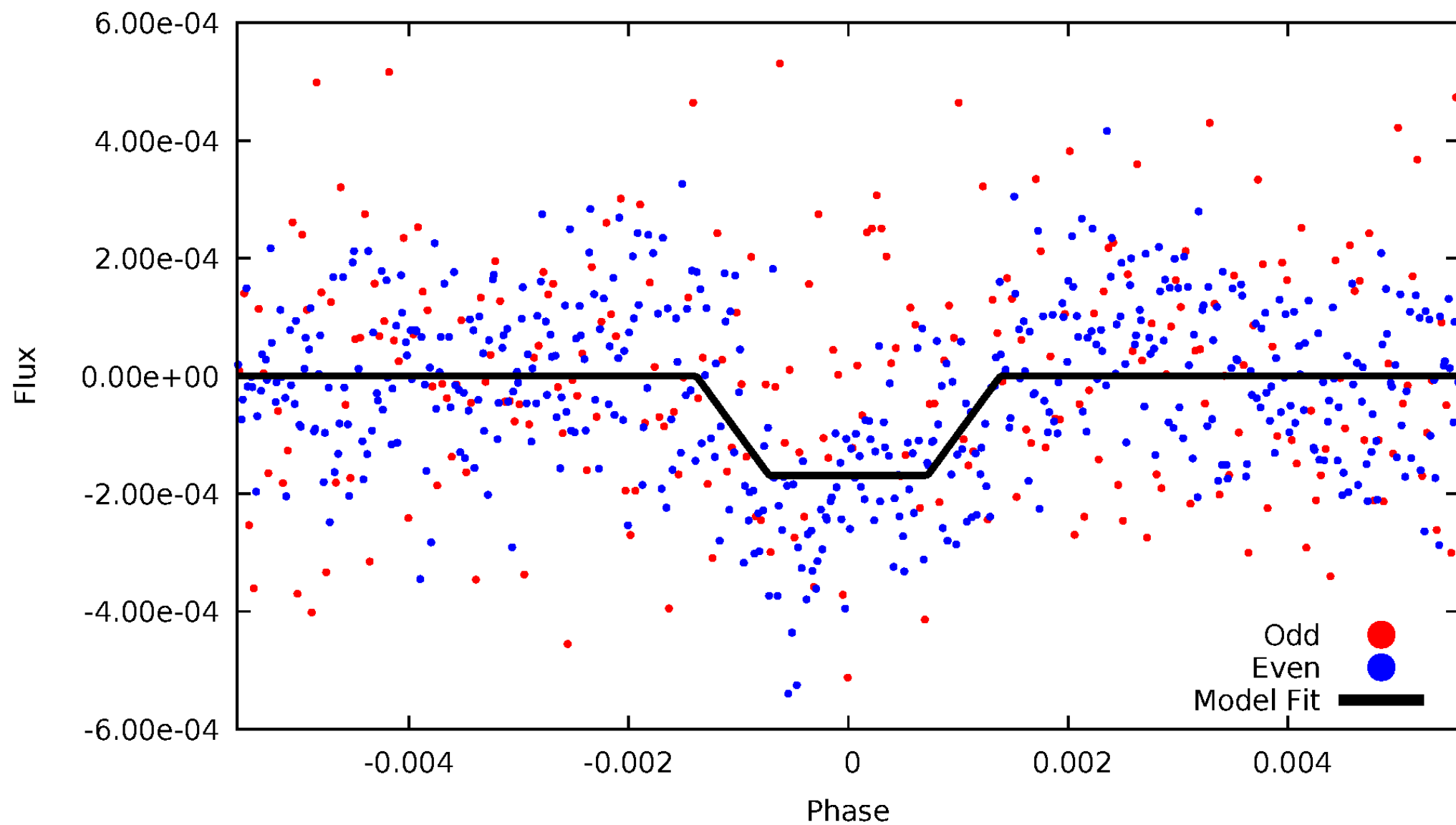
DV Odd/Even

TCE 011911214-01

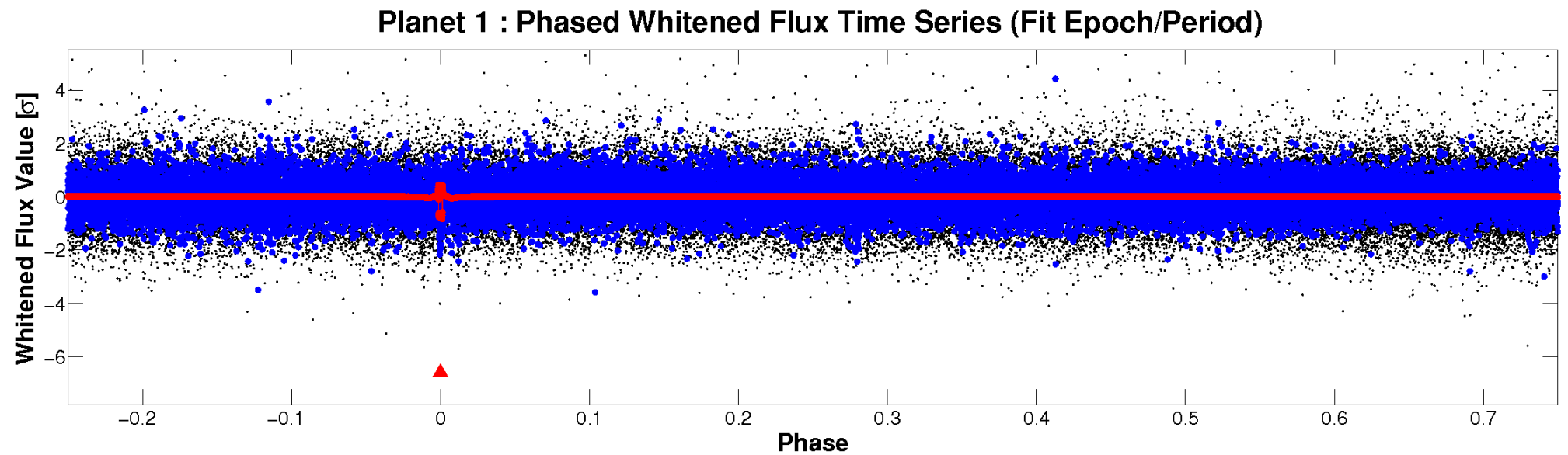
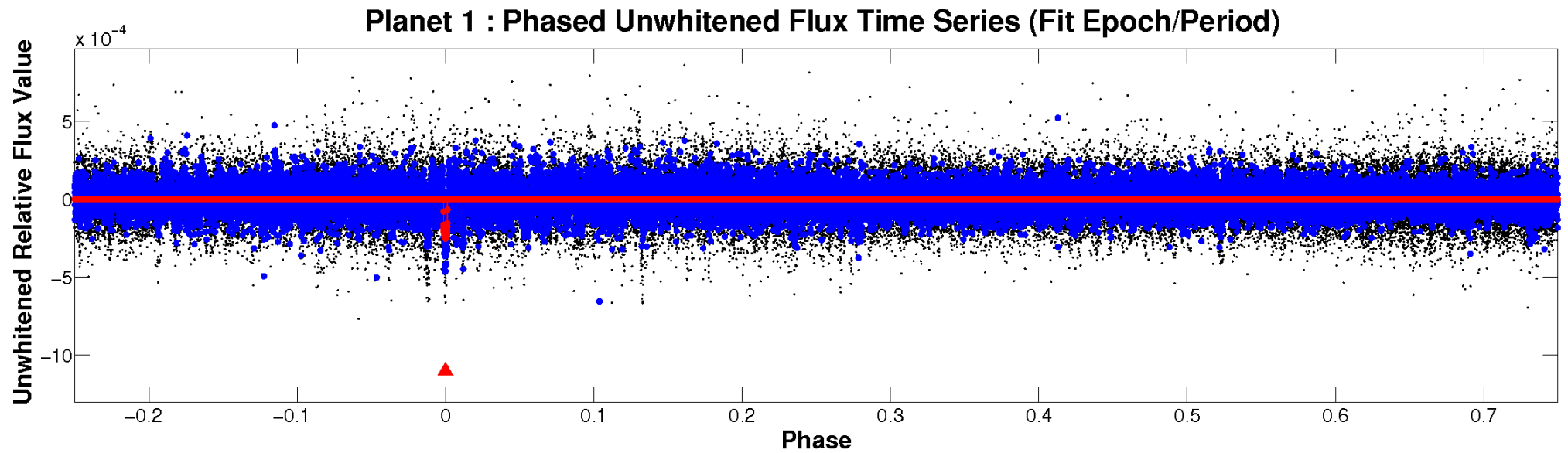


ALT Odd/Even

TCE 011911214-01

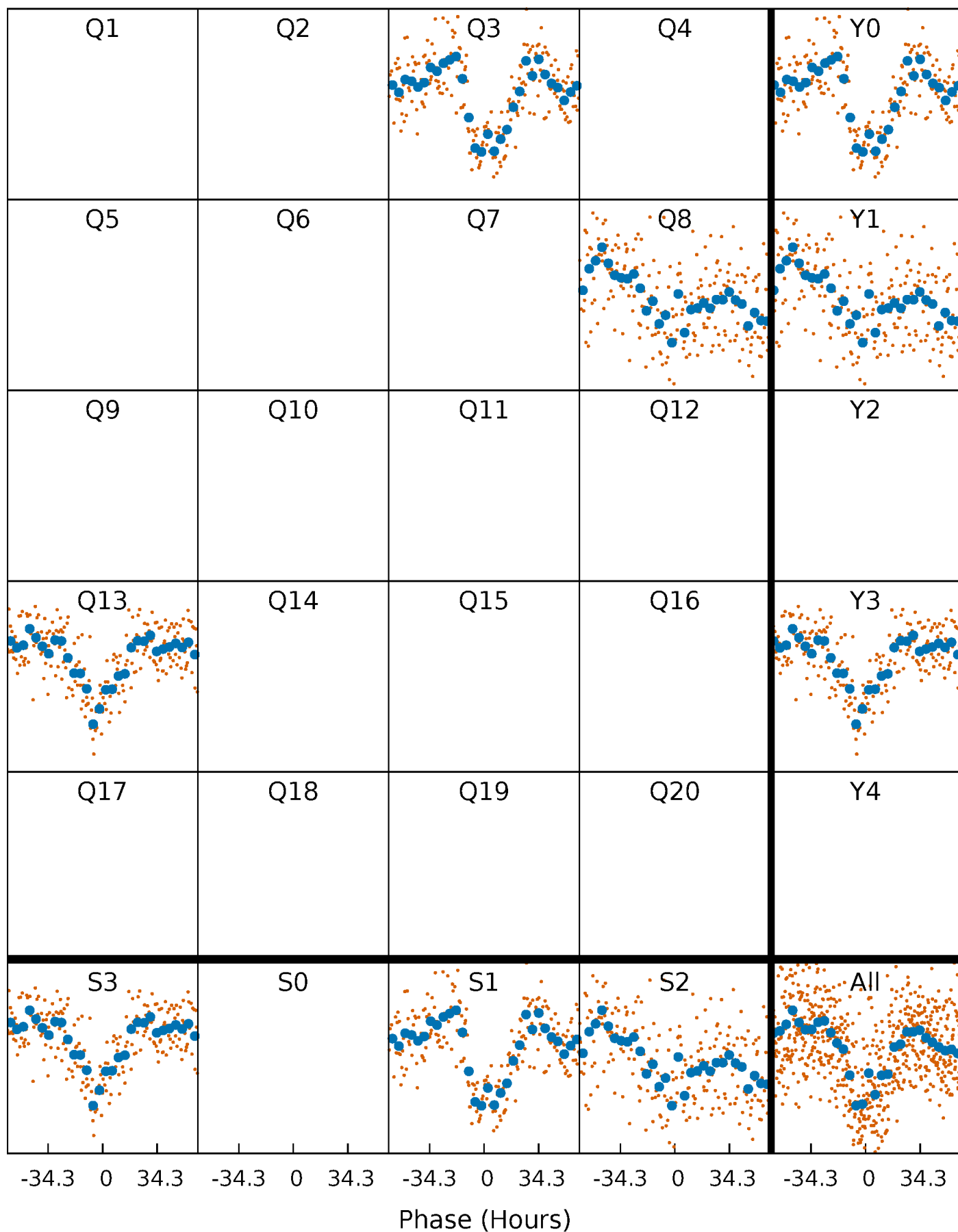


Non-Whitened Vs. Whitened Light Curve



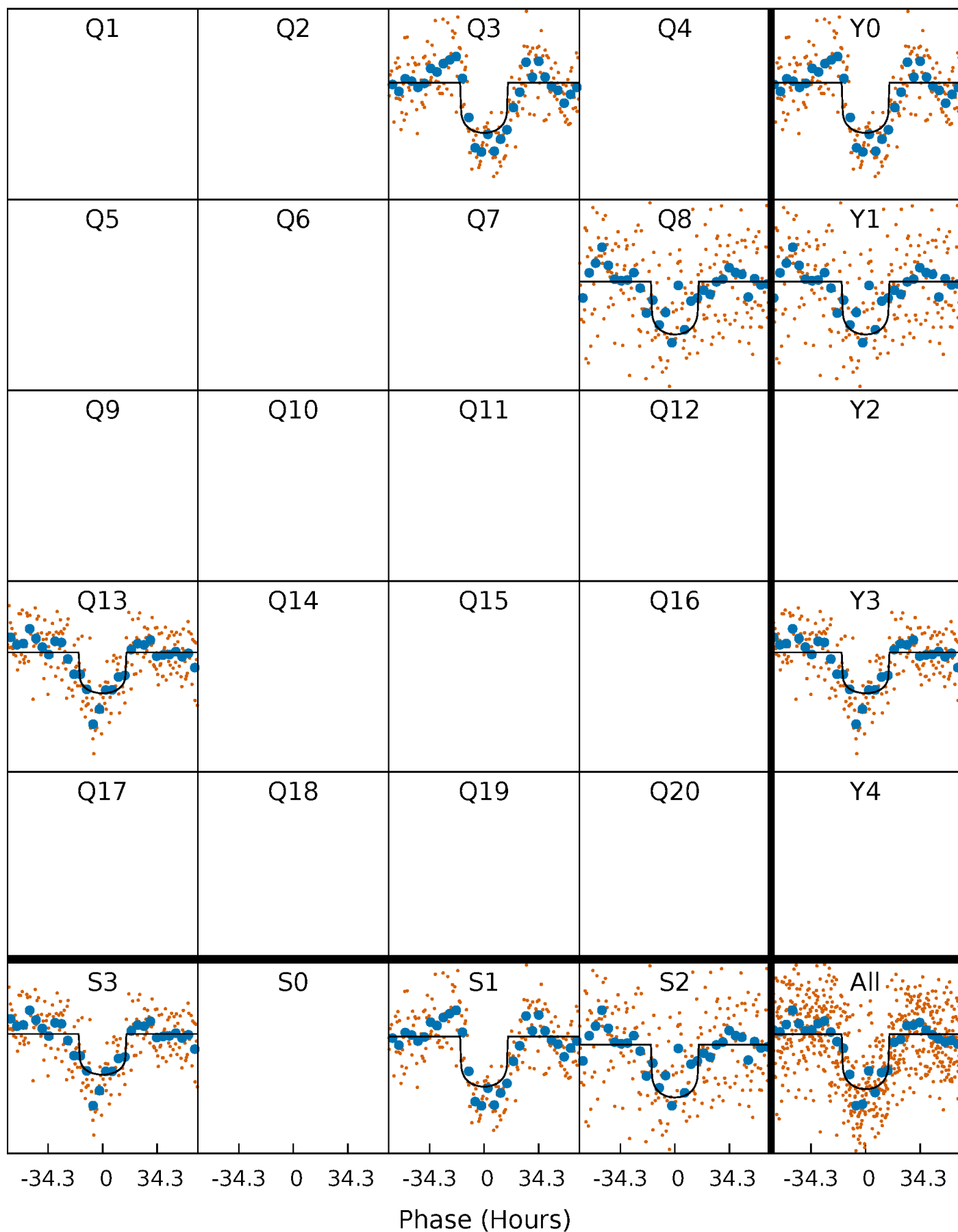
PDC Quarter-Phased Transit Curves

TCE 011911214-01 P=464.953097 Days $T_0=312.360816$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011911214-01 P=464.953097 Days $T_0=312.360816$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

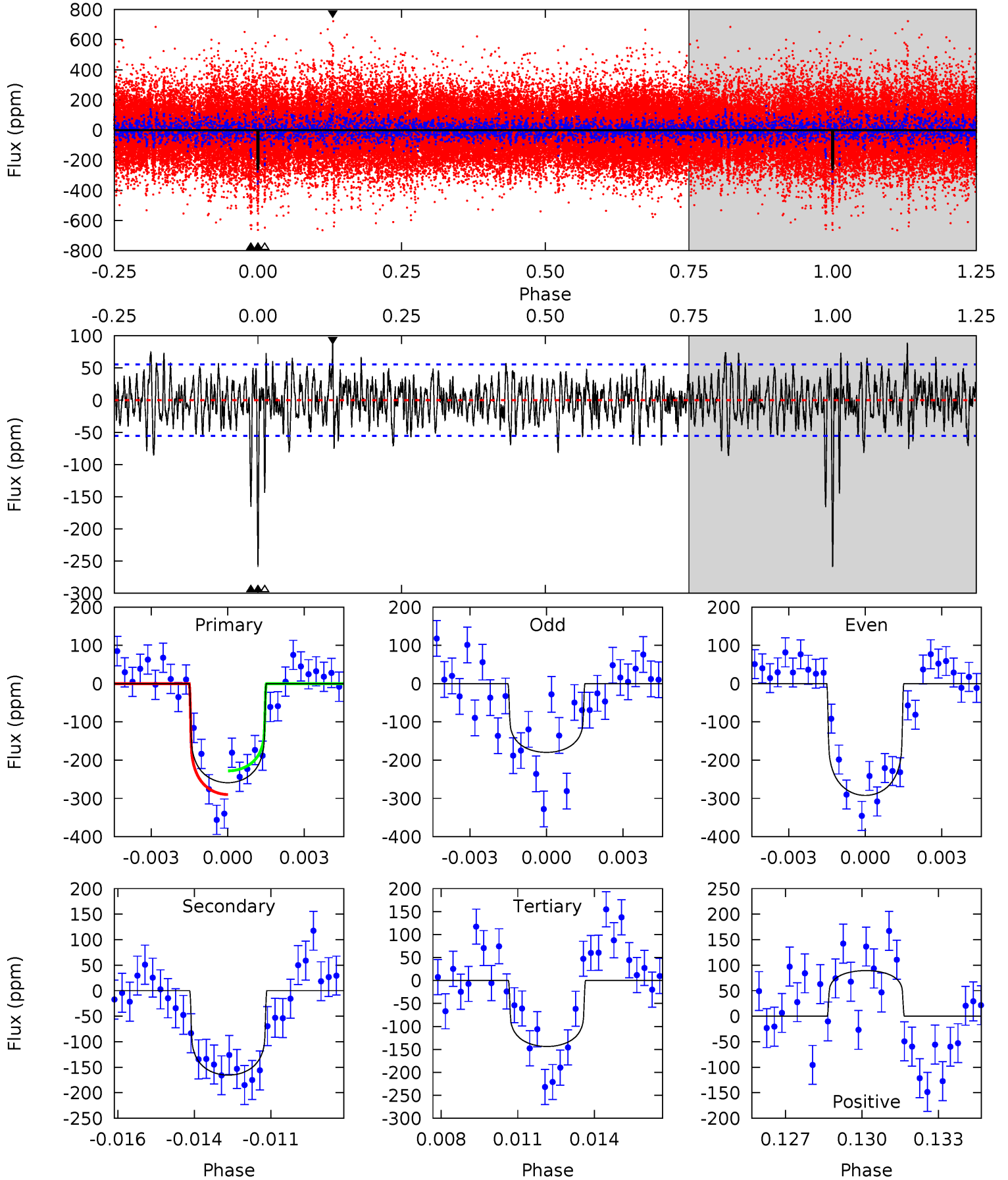
TCE 011911214-01 P=464.938413 Days $T_0=312.378077$ (BKJD)



DV Model-Shift Uniqueness Test

011911214-01, P = 464.953097 Days, E = 312.360816 Days

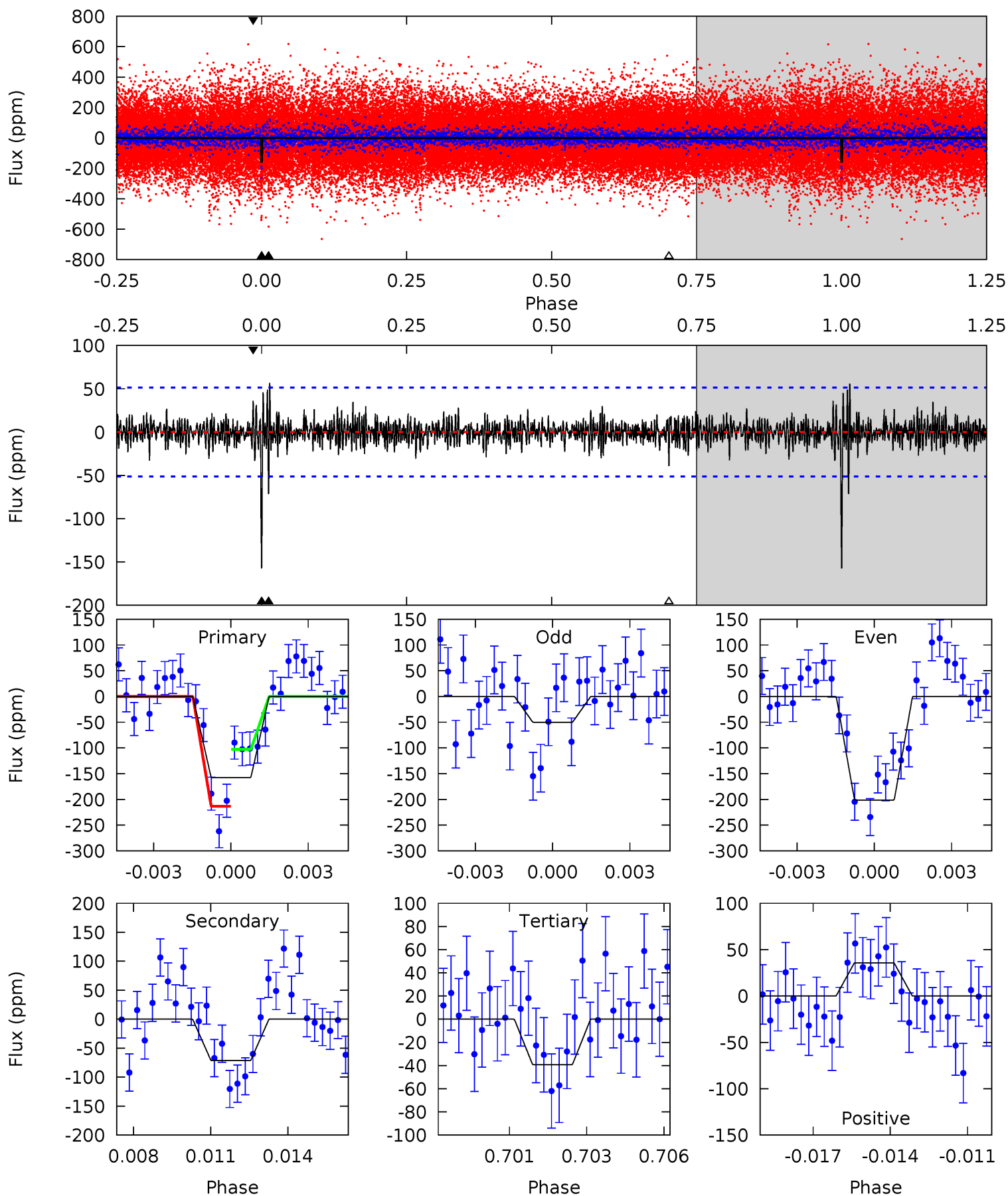
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.7	15.7	13.7	8.51	5.27	3.00	2.48	11.0	16.1	2.07	7.24	5.05	0.89	0.26	2.92



Alt Model-Shift Uniqueness Test

011911214-01, P = 464.938413 Days, E = 312.378077 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.1	7.33	4.03	3.67	5.27	2.99	1.01	12.1	12.5	3.30	3.66	7.28	0.75	0.26	5.66



Stellar Parameters For KIC 011911214

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6646^{+159}_{-199}	$3.874^{+0.273}_{-0.117}$	$-0.060^{+0.300}_{-0.250}$	$2.395^{+0.443}_{-0.823}$	$1.563^{+0.175}_{-0.324}$	$0.160^{+0.314}_{-0.061}$
	+2%/-3%	+7%/-3%	+500%/-417%	+18%/-34%	+11%/-21%	+196%/-38%
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 011911214-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-165 ± 11	$3.78^{+0.96}_{-1.02}$	537^{+33}_{-41}	6139^{+904}_{-580}	11778^{+9689}_{-4387}
Alt.	-71 ± 10	$3.22^{+1.04}_{-0.91}$	535^{+34}_{-45}	5402^{+789}_{-583}	7002^{+6462}_{-3019}

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

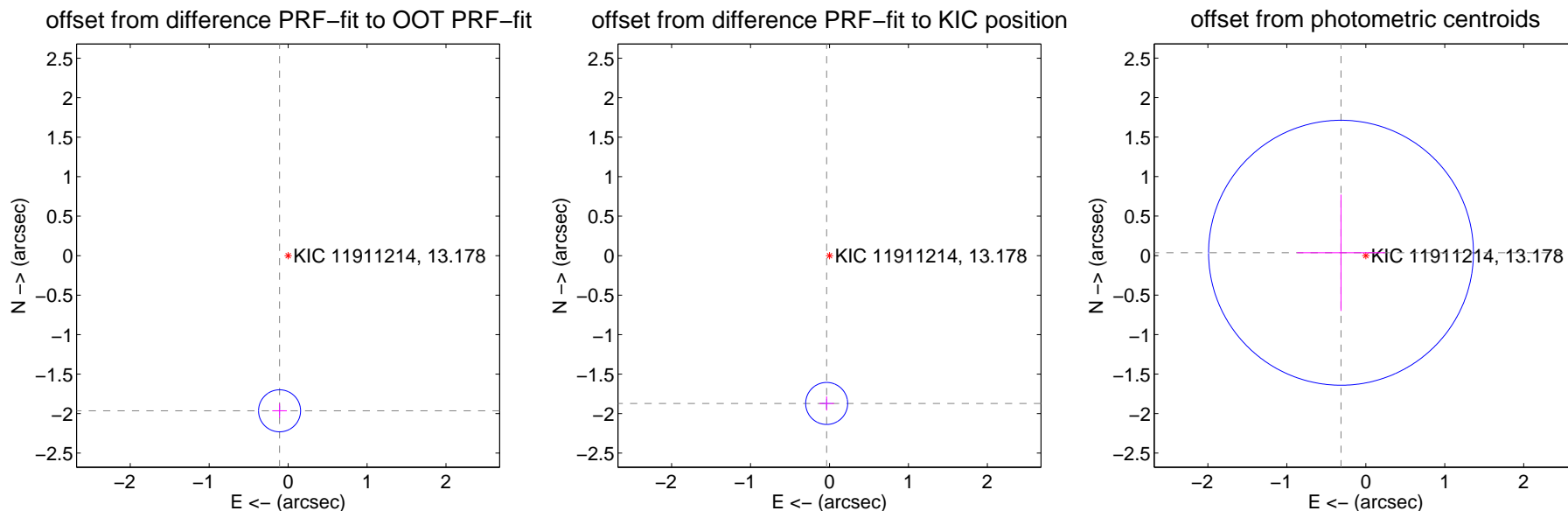
DV Centroid Data

Supplemental centroid analysis for 011911214-01. Kepler magnitude: 13.18. Transit SNR 9.66

There are 1 quarters with good PRF difference image offsets

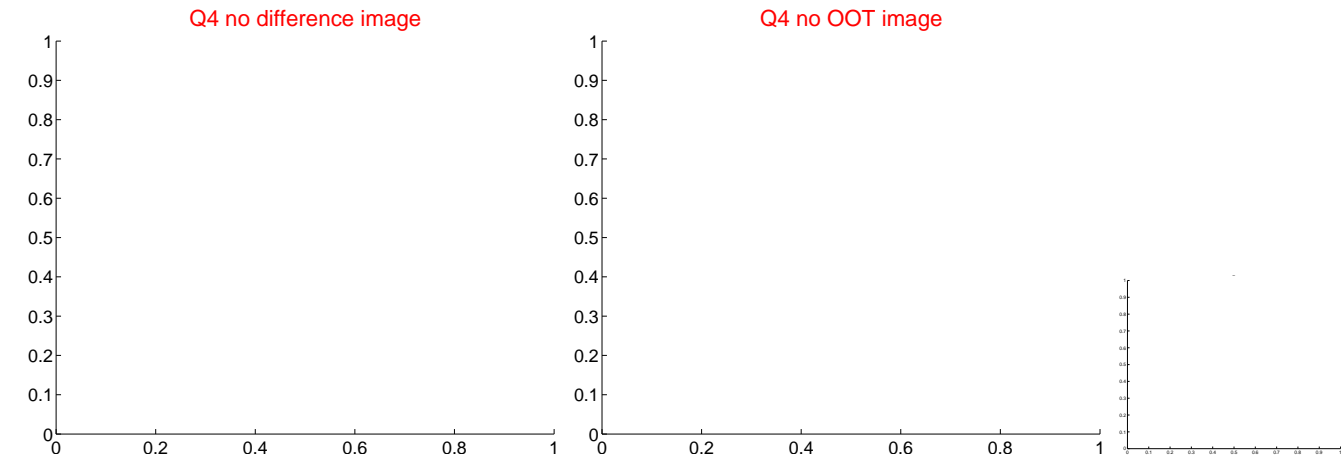
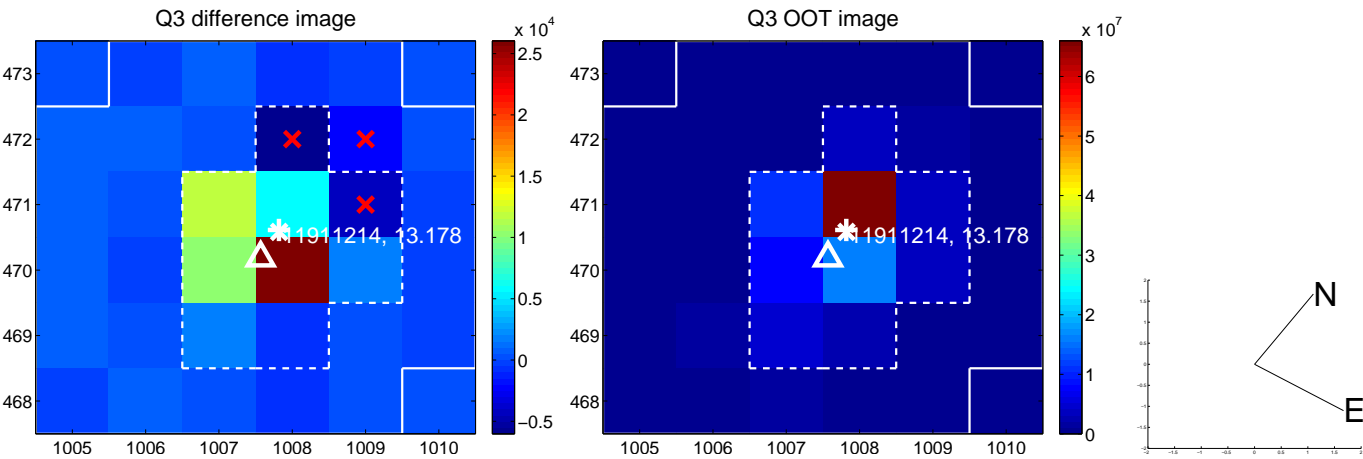
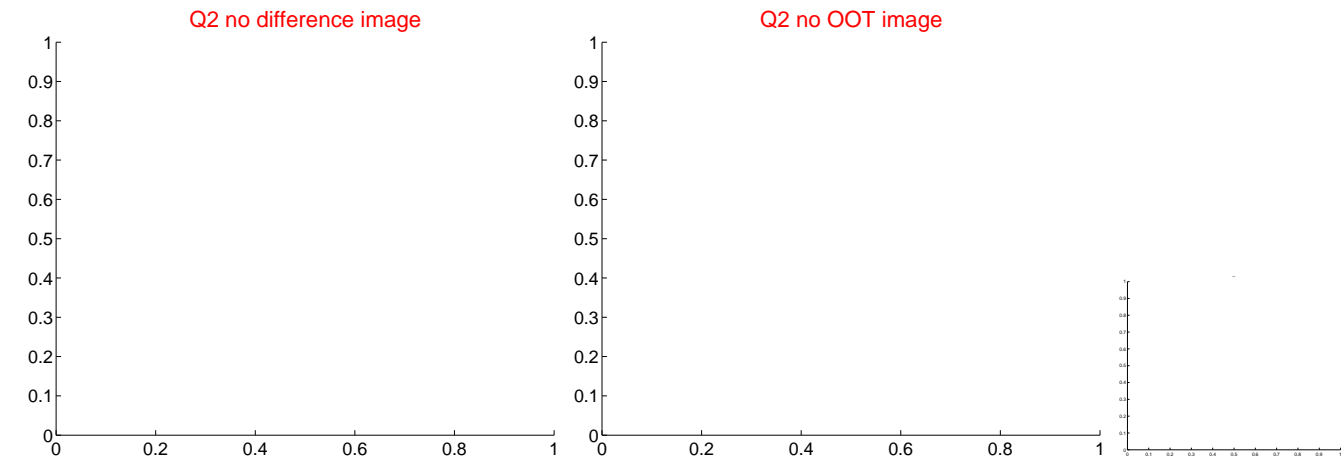
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.968 ± 0.089	22.18	0.108 ± 0.092	-1.965 ± 0.089
PRF-fit source offset from KIC position	1.872 ± 0.089	21.10	0.036 ± 0.092	-1.872 ± 0.089
photometric centroid source offset	0.32 ± 0.56	0.57	0.31 ± 0.56	0.04 ± 0.74

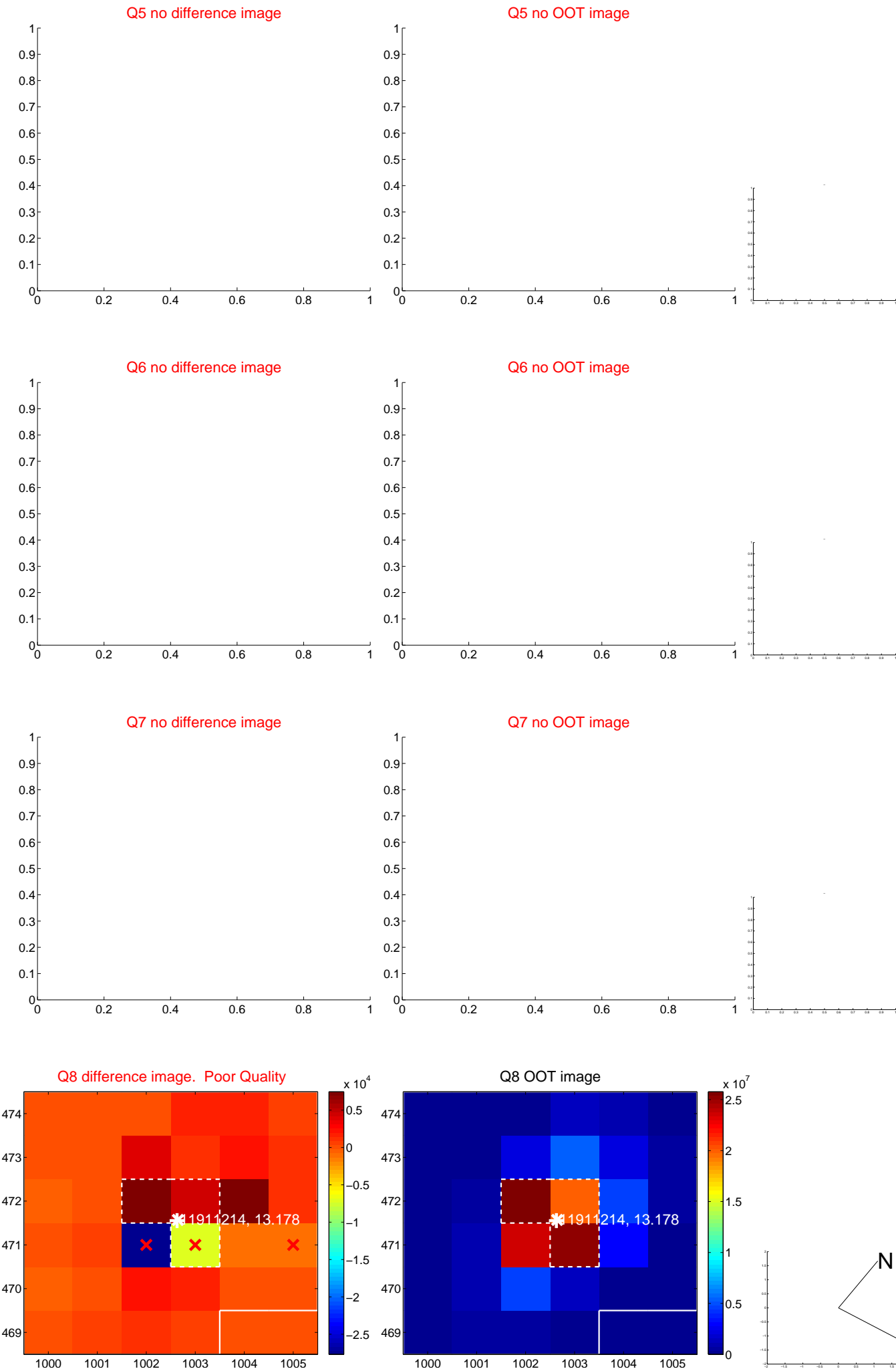


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



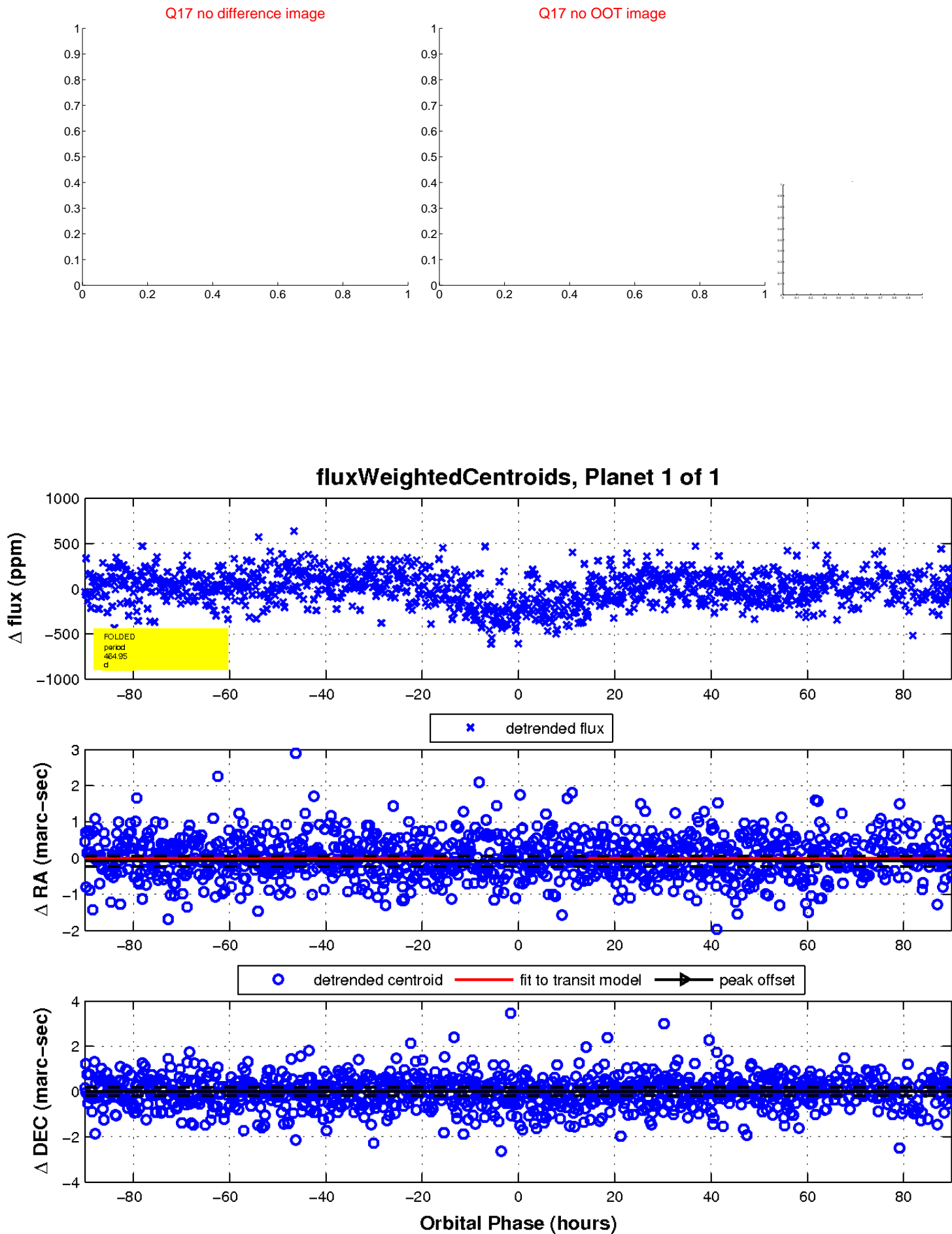
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

