

KIC 011760931

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})
011760931-01	OBS	8229.01	397.729327	264.746273	260.8	11.906	7.4	7.3	0.97	6032	1.69	0.97

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011760931-01	OBS	FP	0.10	1	0	0	0	ALL_TRANS_CHASES—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.

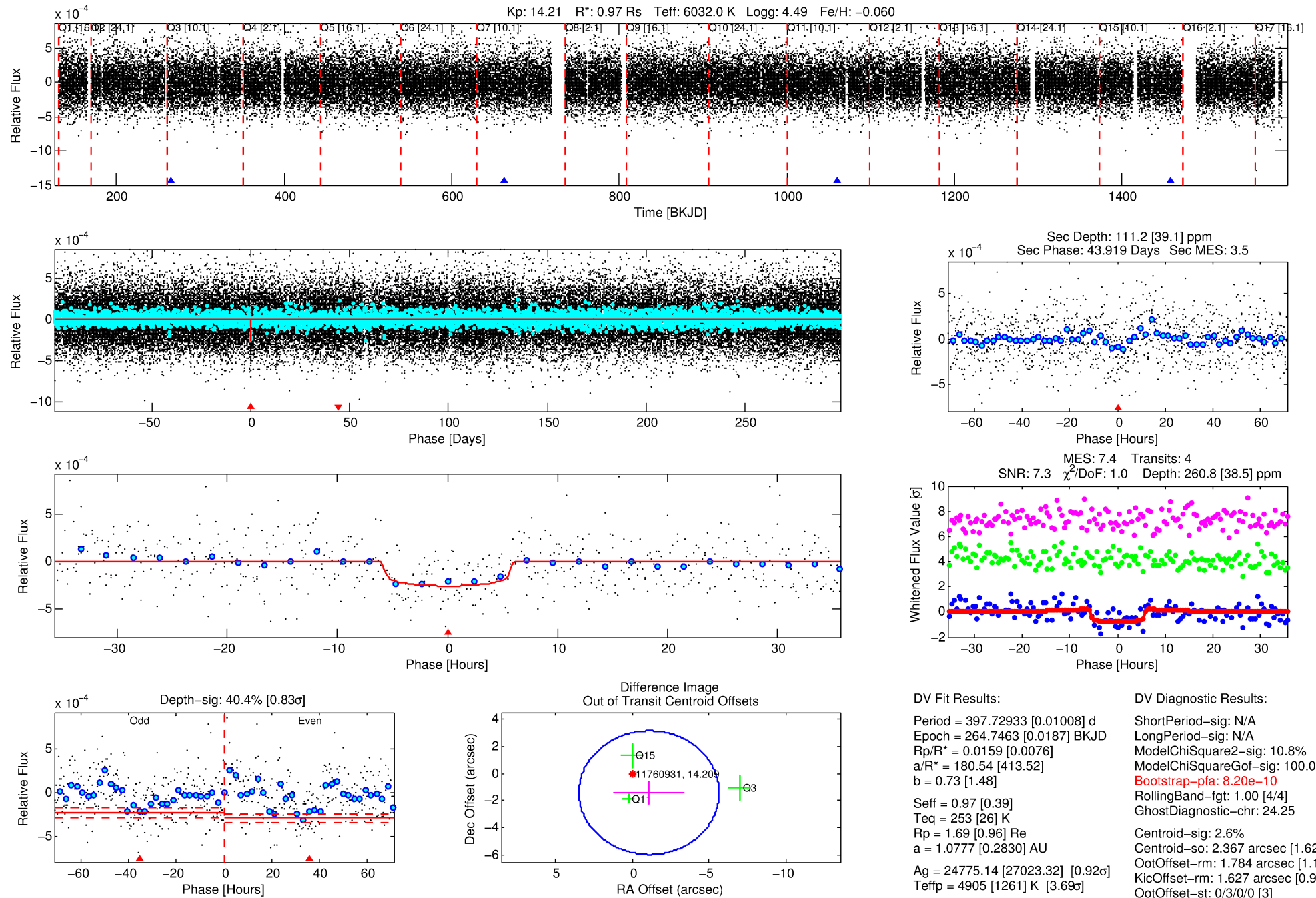
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011760931-01

No Significant Match Found

DV One-Page Summary

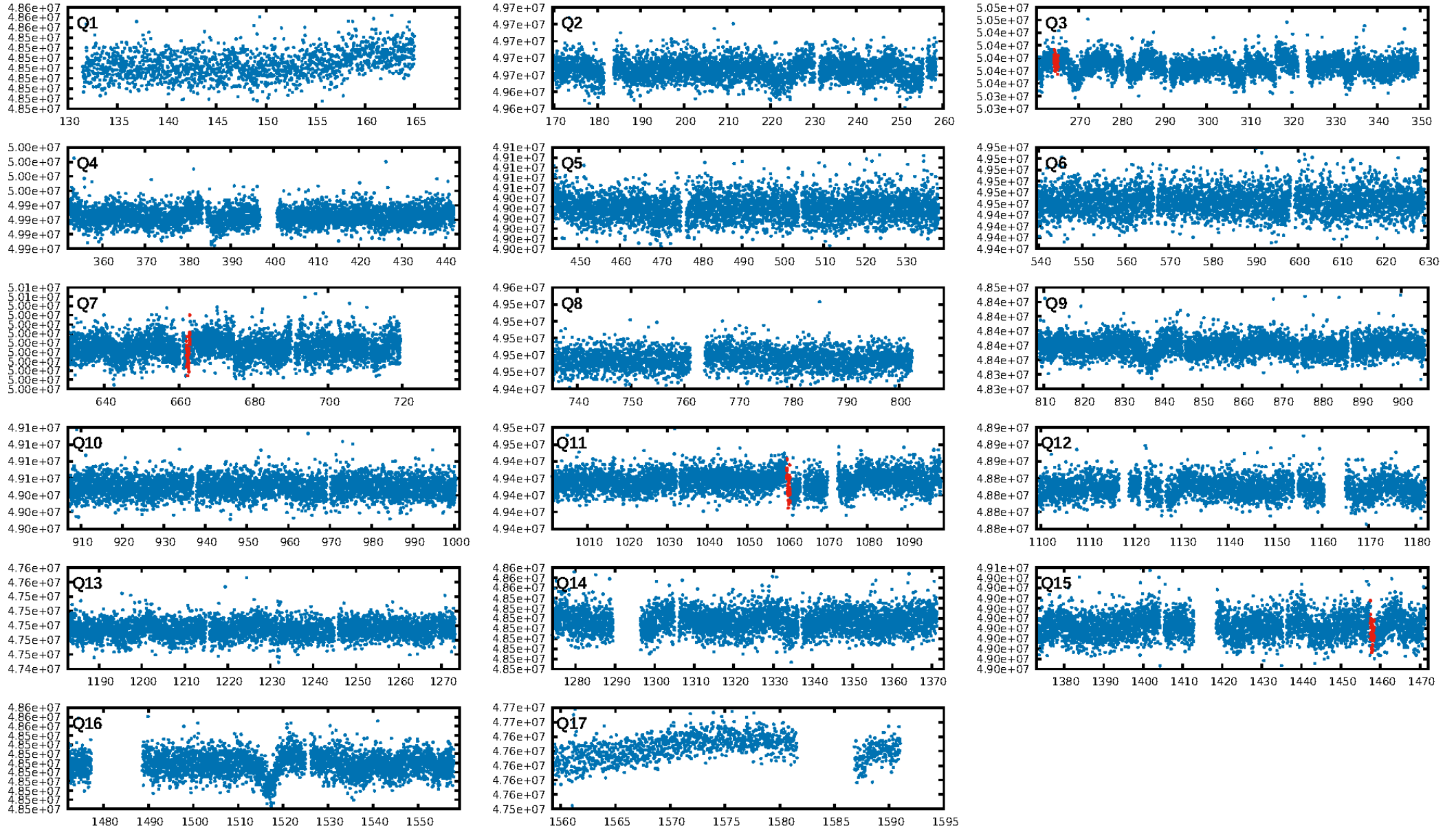
KIC: 11760931 Candidate: 1 of 1 Period: 397.729 d



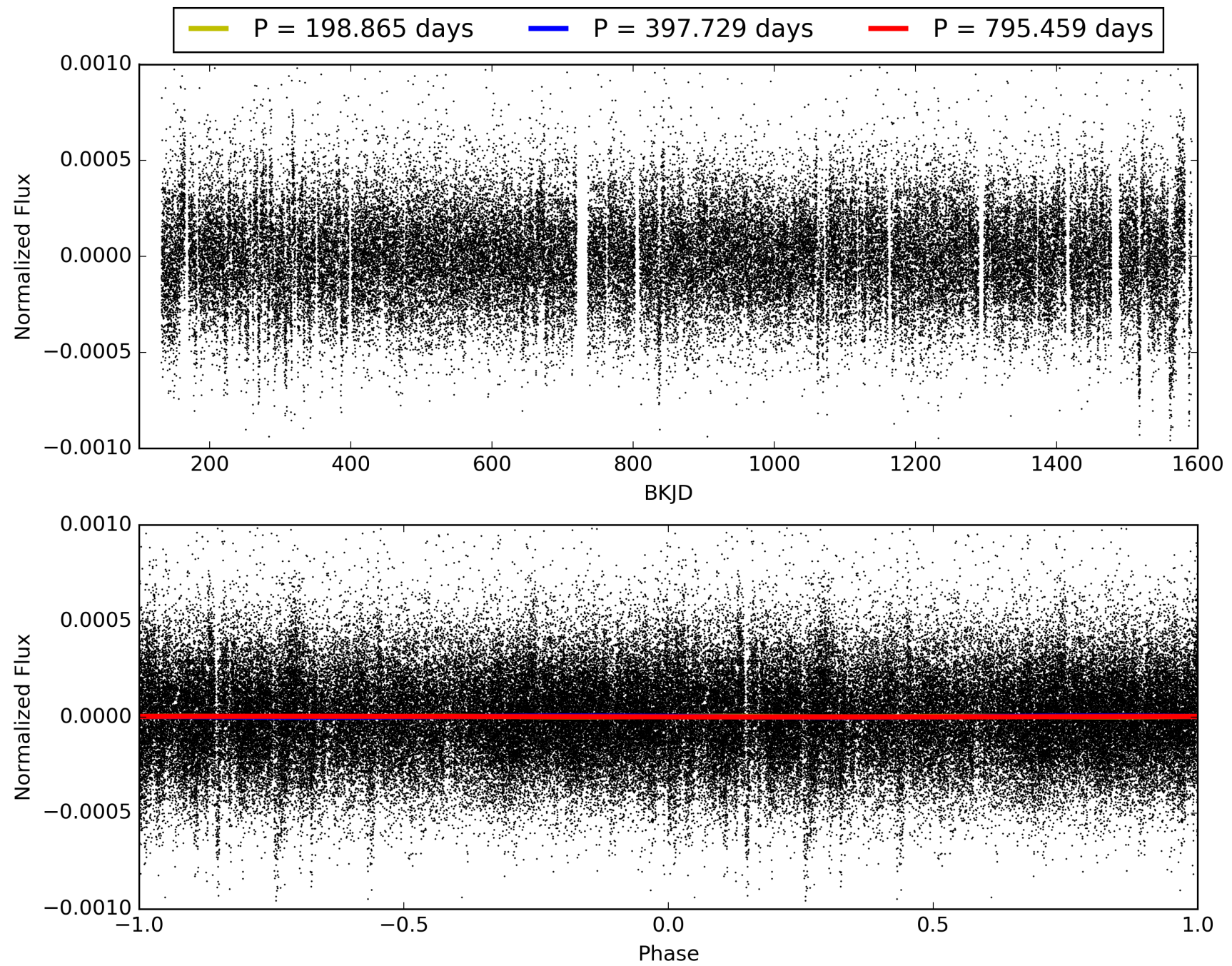
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:31:00 Z

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

TCE 011760931-01, PDC Light Curves

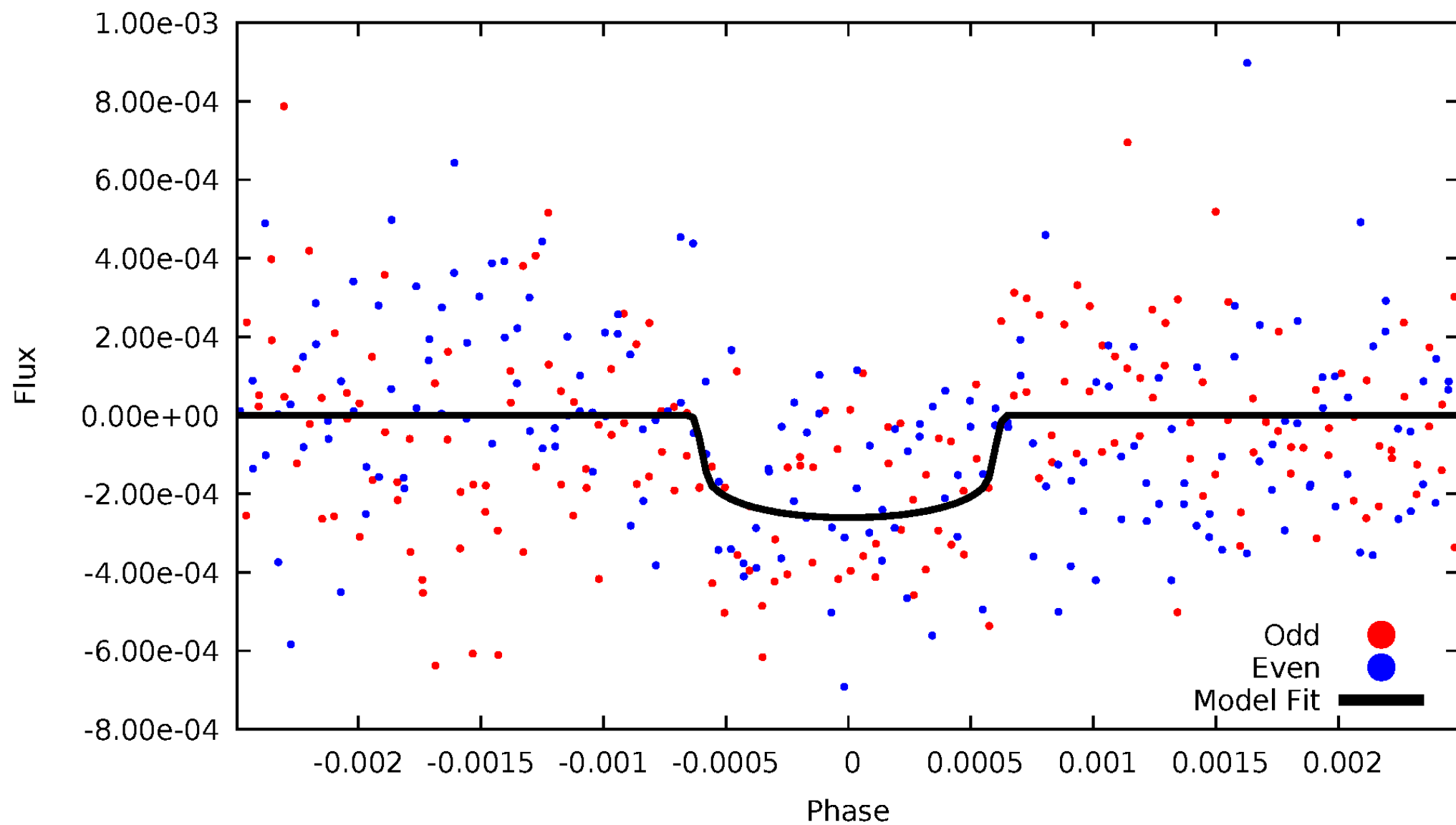


TCE 011760931-01



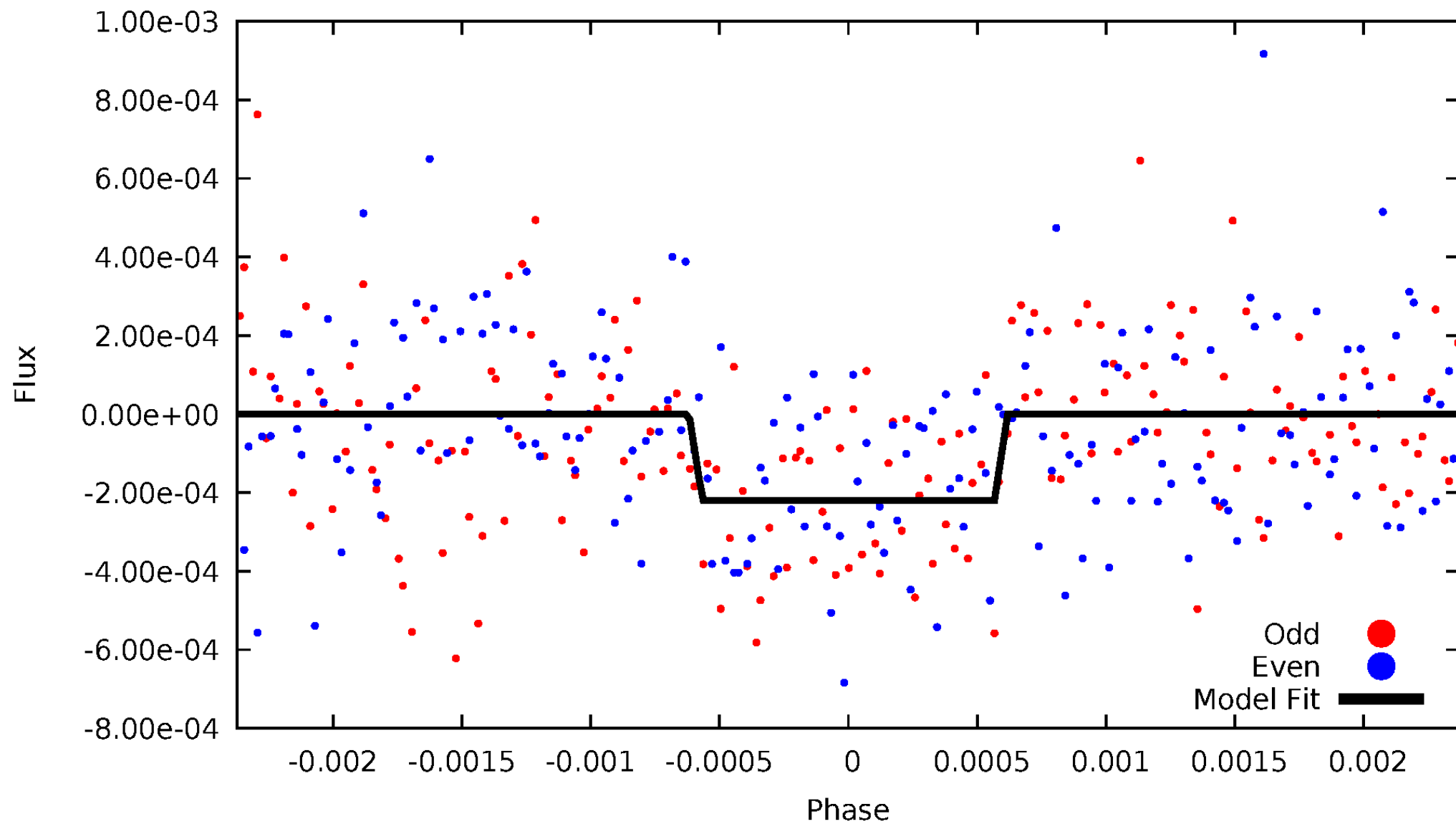
DV Odd/Even

TCE 011760931-01

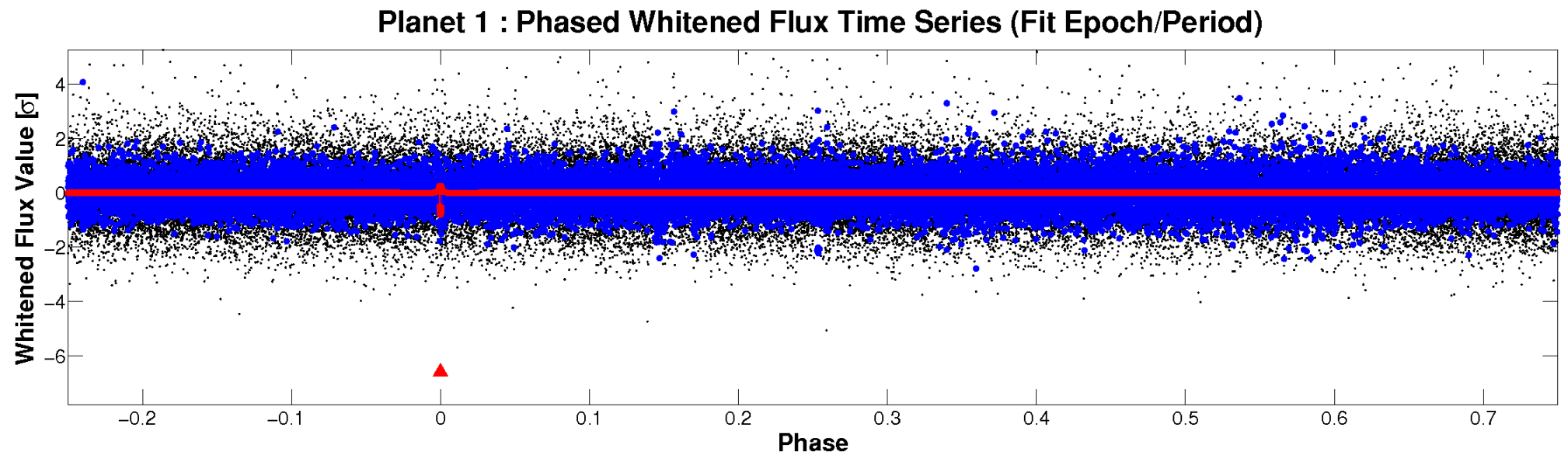
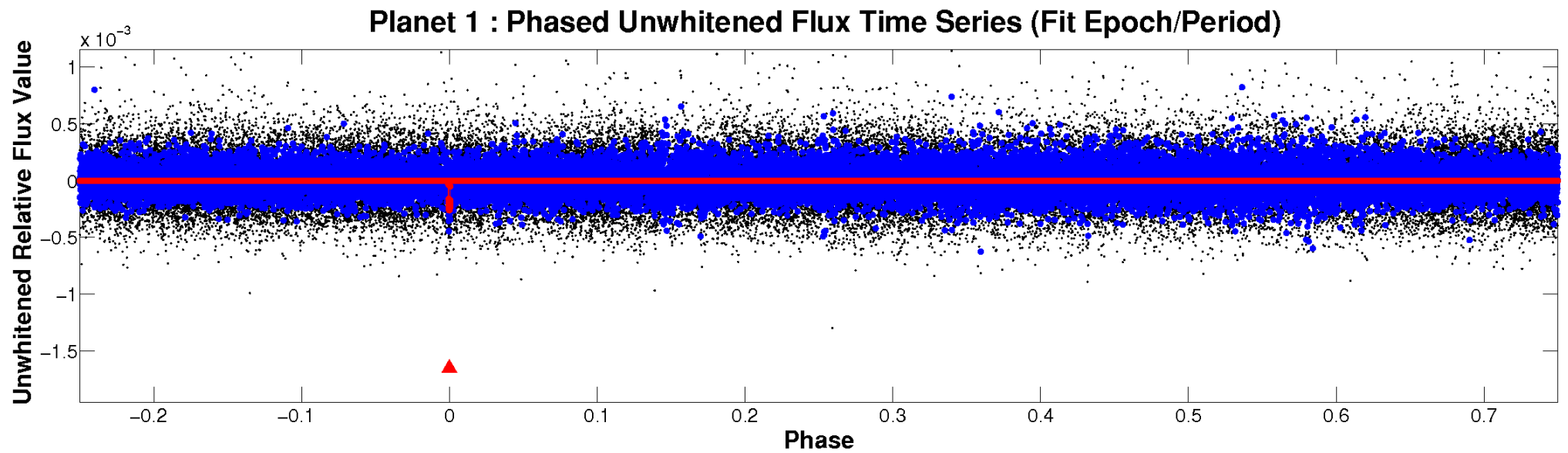


ALT Odd/Even

TCE 011760931-01

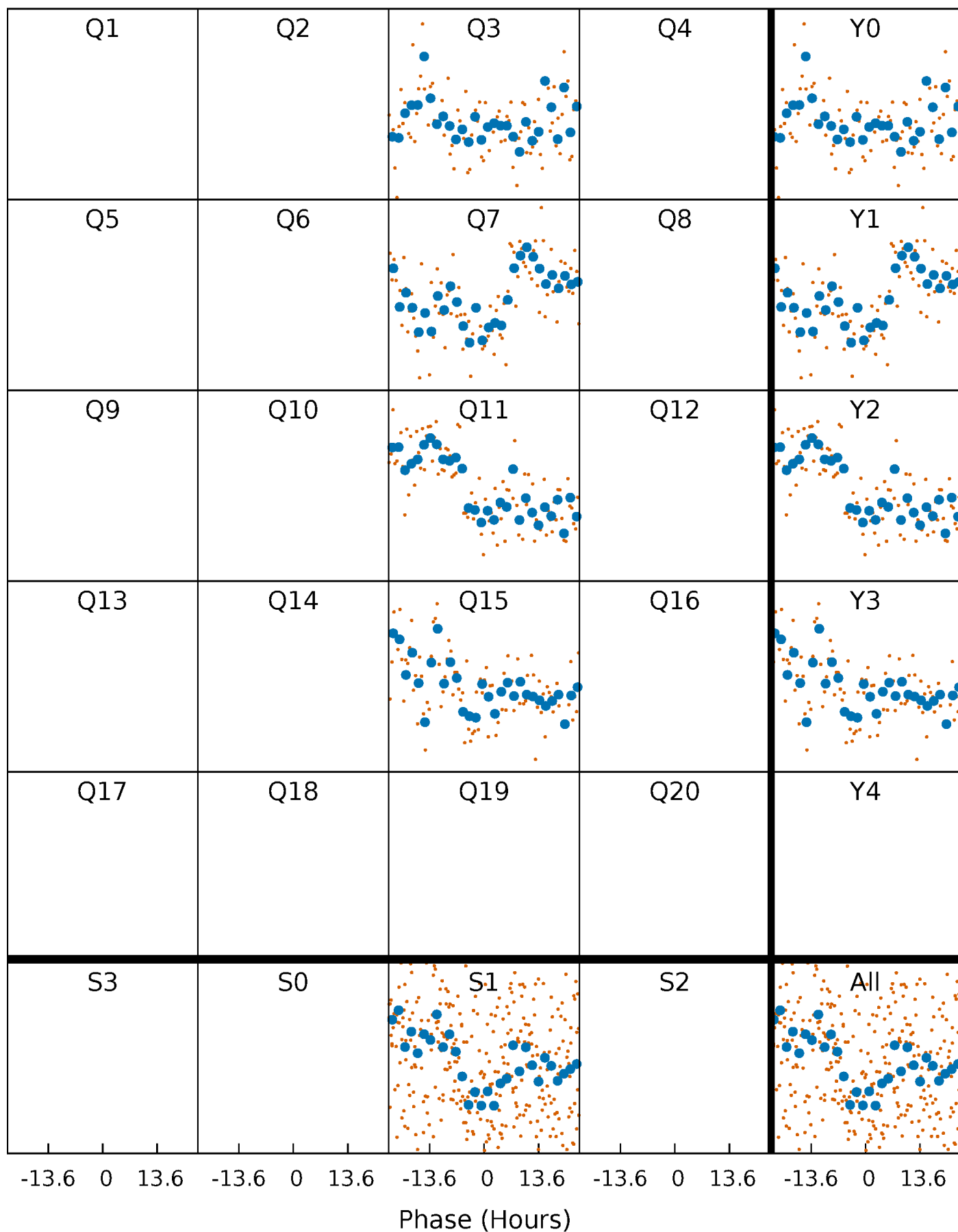


Non-Whitened Vs. Whitened Light Curve



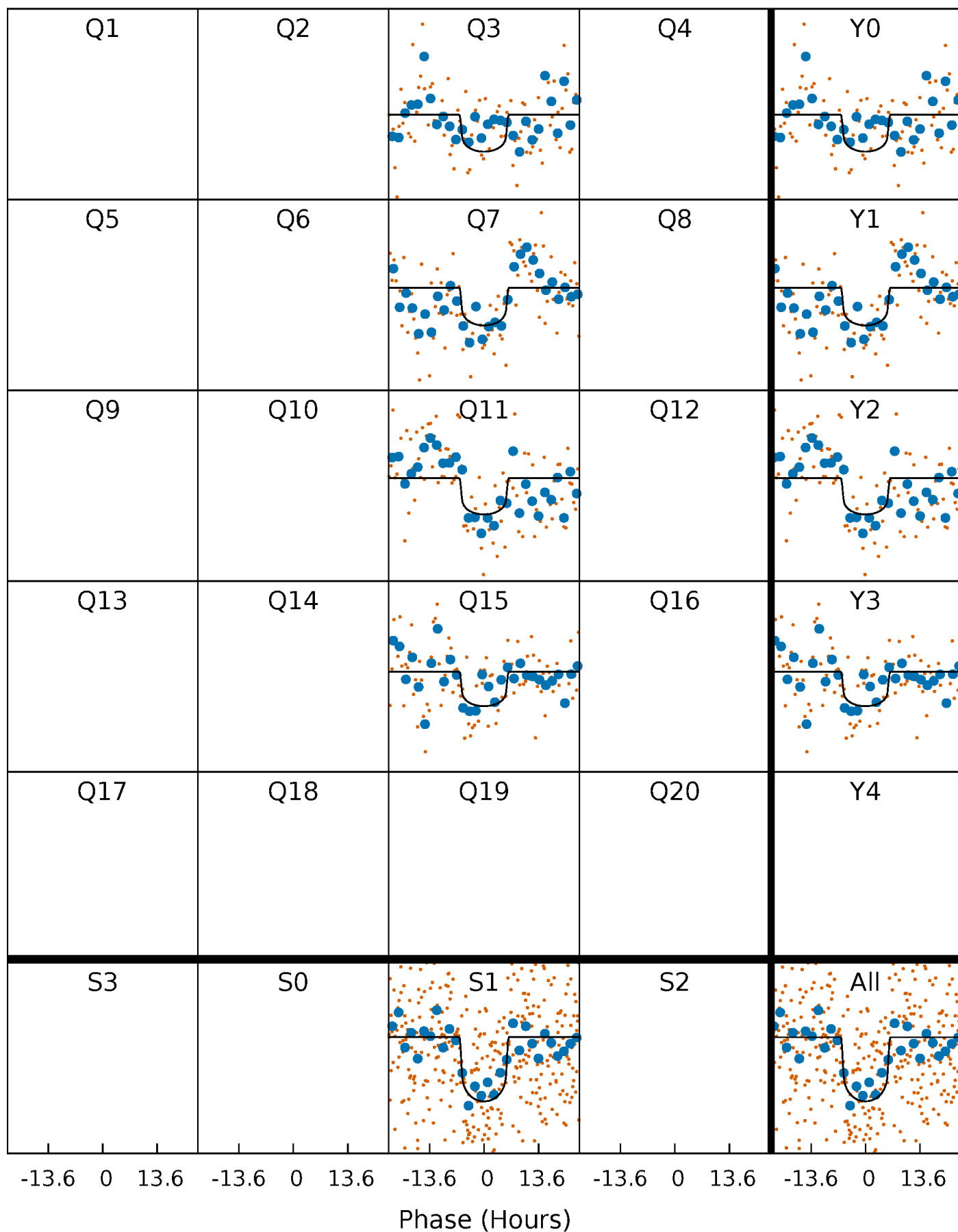
PDC Quarter-Phased Transit Curves

TCE 011760931-01 P=397.729328 Days $T_0=264.746273$ (BKJD)



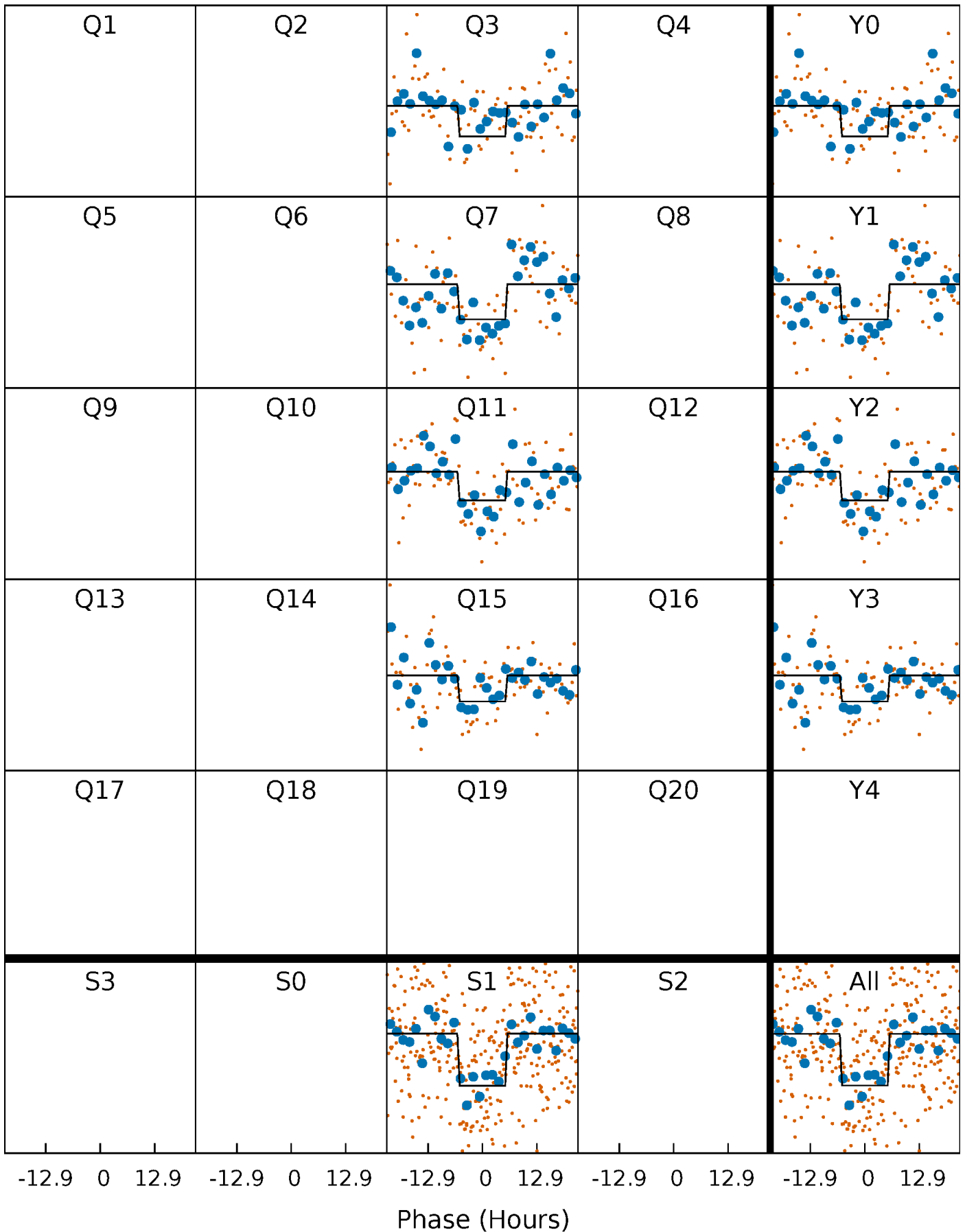
DV Quarter-Phased Transit Curves

TCE 011760931-01 P=397.729328 Days $T_0=264.746273$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

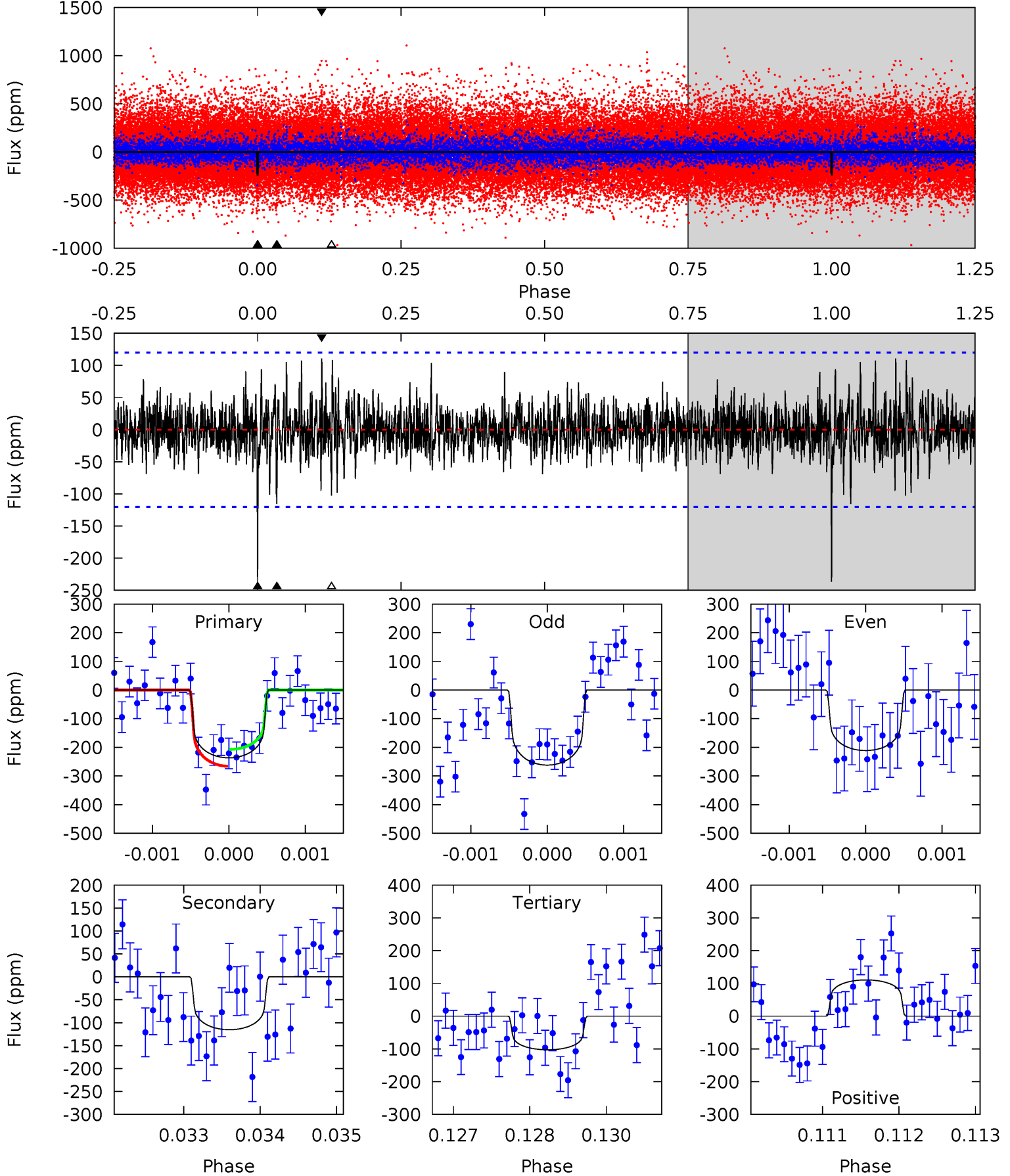
TCE 011760931-01 $P=397.725623$ Days $T_0=264.753045$ (BKJD)



DV Model-Shift Uniqueness Test

011760931-01, P = 397.729328 Days, E = 264.746273 Days

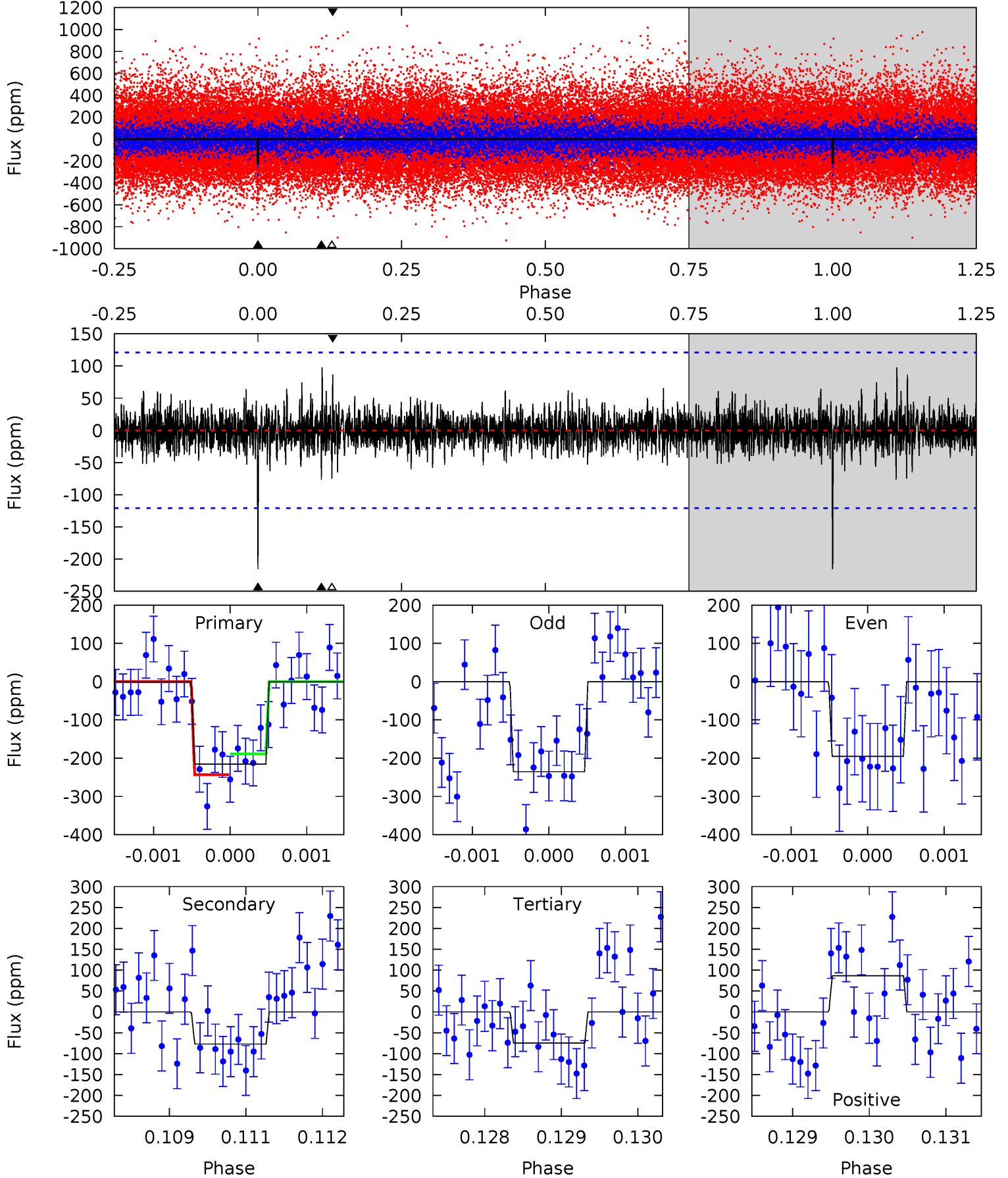
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	5.20	4.63	4.98	5.41	3.23	1.18	6.03	5.69	0.57	0.22	1.14	0.90	0.32	1.32



Alt Model-Shift Uniqueness Test

011760931-01, P = 397.725623 Days, E = 264.753045 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.65	3.44	3.35	3.89	5.42	3.24	0.82	6.30	5.76	0.09	-0.44	0.89	0.92	0.31	1.22



Stellar Parameters For KIC 011760931

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6032^{+180}_{-198}	$4.485^{+0.050}_{-0.213}$	$-0.060^{+0.250}_{-0.350}$	$0.973^{+0.300}_{-0.100}$	$1.055^{+0.126}_{-0.153}$	$1.612^{+0.431}_{-0.813}$
	+3%/-3%	+1%/-5%	+417%/-583%	+31%/-10%	+12%/-15%	+27%/-50%
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 011760931-01 / KOI 8229.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-115 ± 22	$1.77^{+0.90}_{-0.85}$	362^{+26}_{-18}	5035^{+1844}_{-796}	21721^{+63211}_{-12161}
Alt.	-77 ± 22	$1.61^{+0.92}_{-0.81}$	361^{+27}_{-18}	4757^{+1794}_{-779}	17473^{+58214}_{-10693}

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

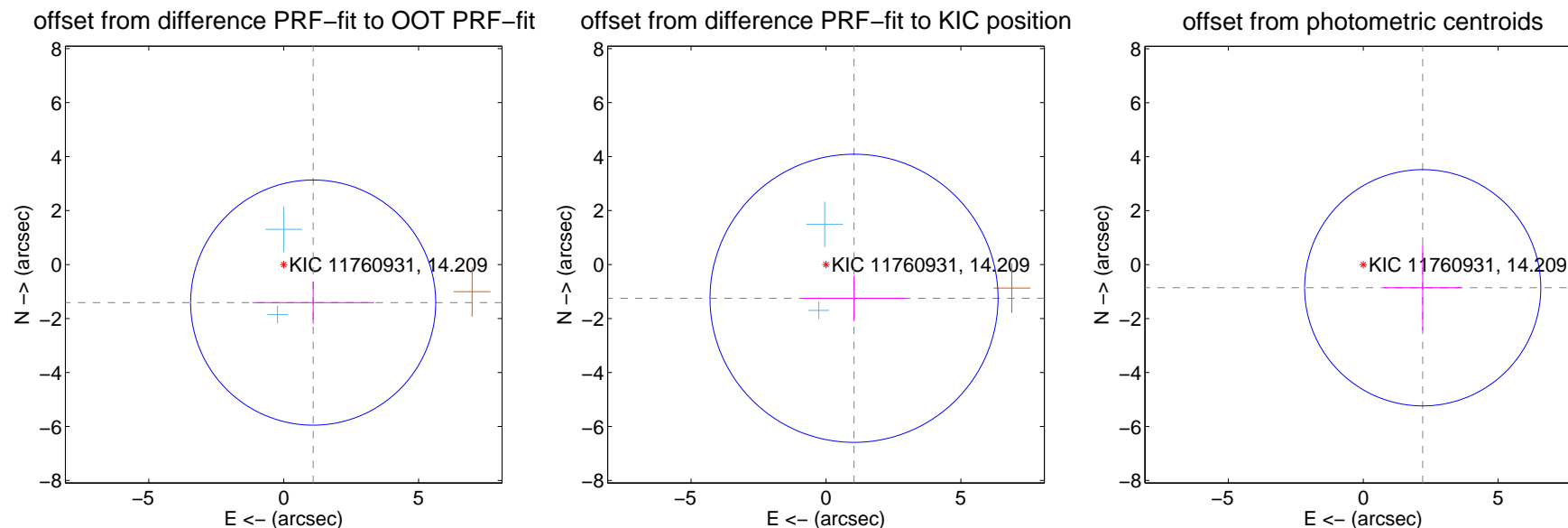
DV Centroid Data

Supplemental centroid analysis for 011760931-01. Kepler magnitude: 14.21. Transit SNR 7.31

There are 2 quarters with good PRF difference image offsets

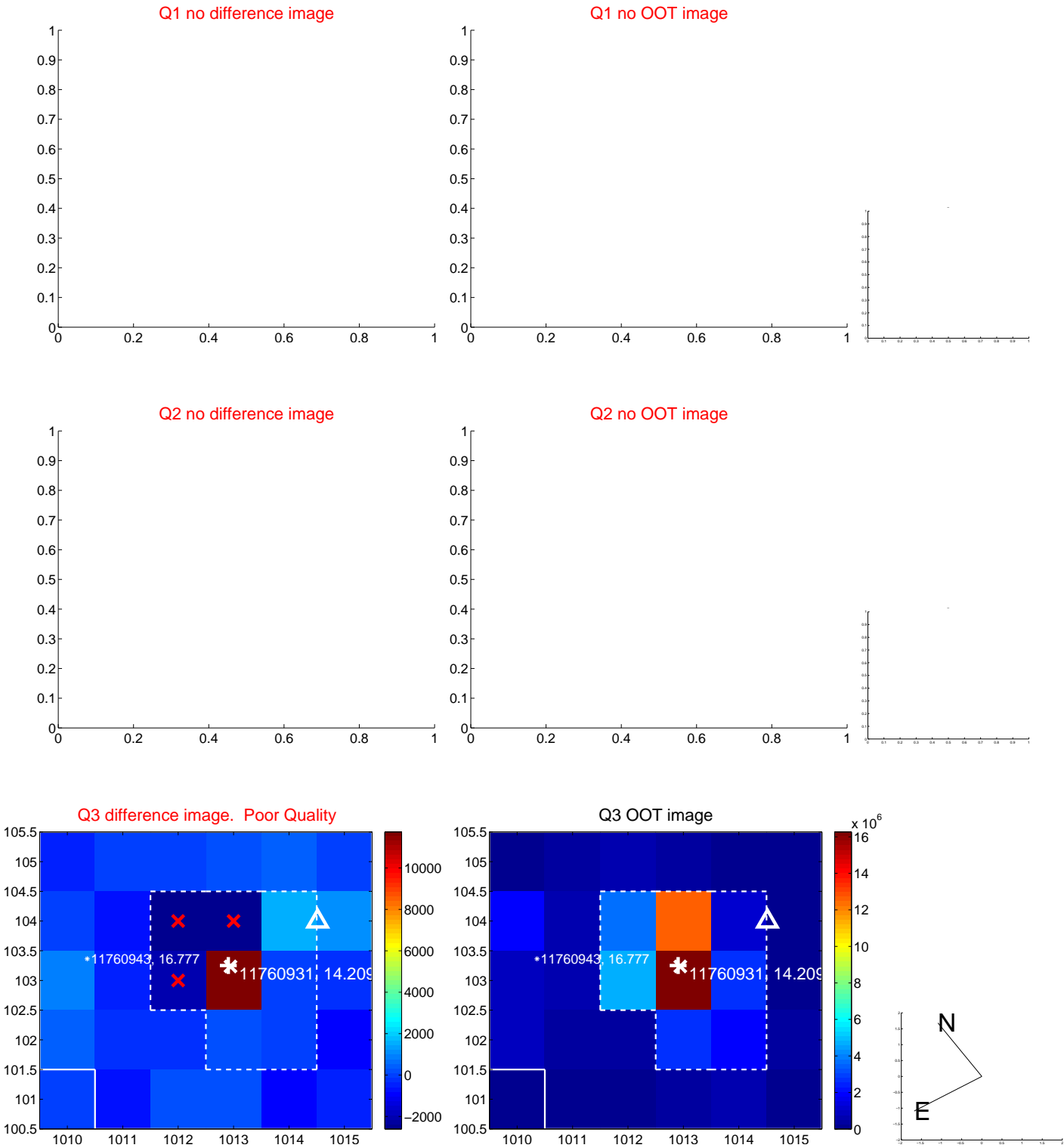
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.784 ± 1.514	1.18	-1.094 ± 2.256	-1.410 ± 0.782
PRF-fit source offset from KIC position	1.627 ± 1.780	0.91	-1.040 ± 1.929	-1.251 ± 0.846
photometric centroid source offset	2.37 ± 1.46	1.62	-2.21 ± 1.44	-0.86 ± 1.59



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.

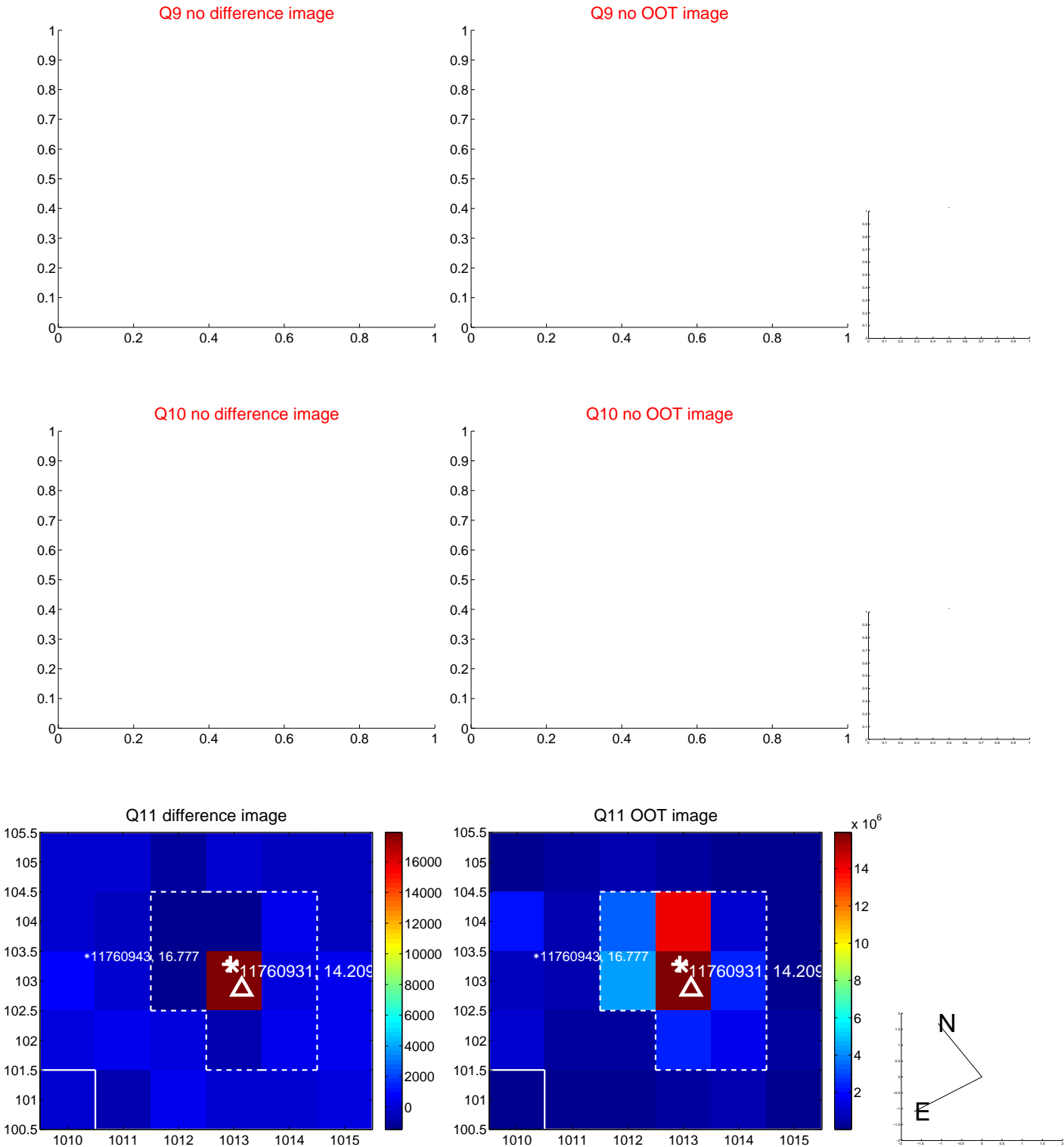
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



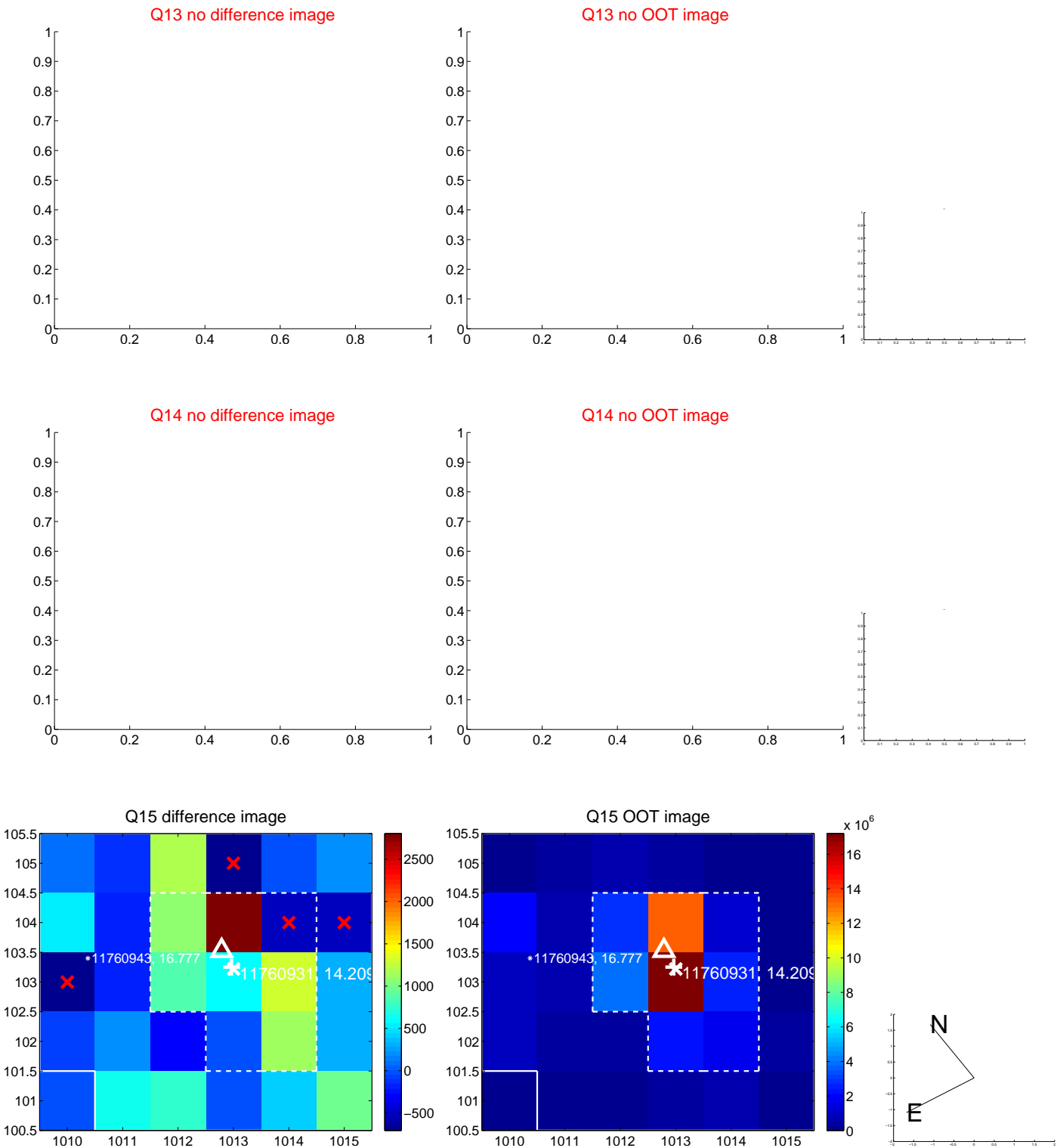
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



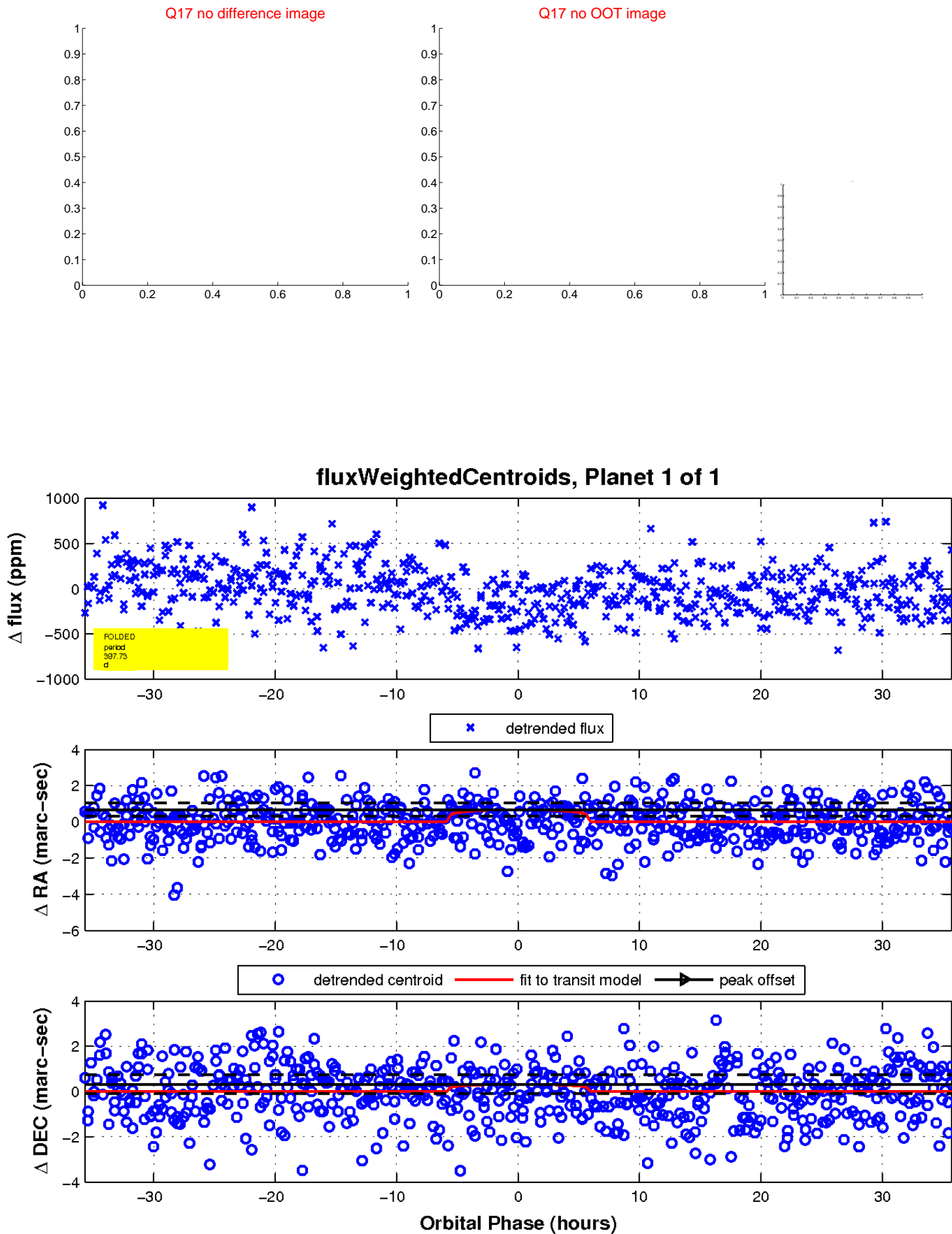
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



UKIRT Image

Declination

