

KIC 011726050

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})
011726050-01	OBS	No	398.460977	435.299813	1397.8	2.962	7.1	6.8	0.78	5543	3.07	0.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011726050-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—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.

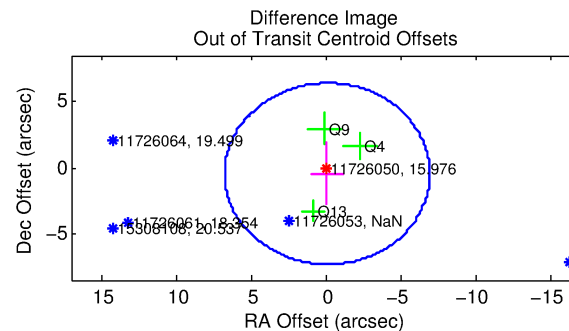
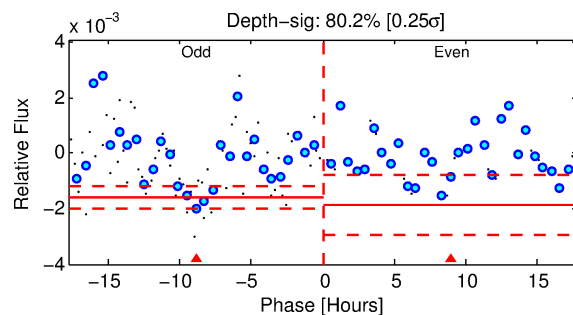
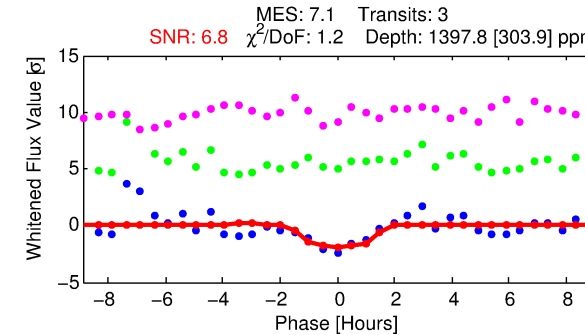
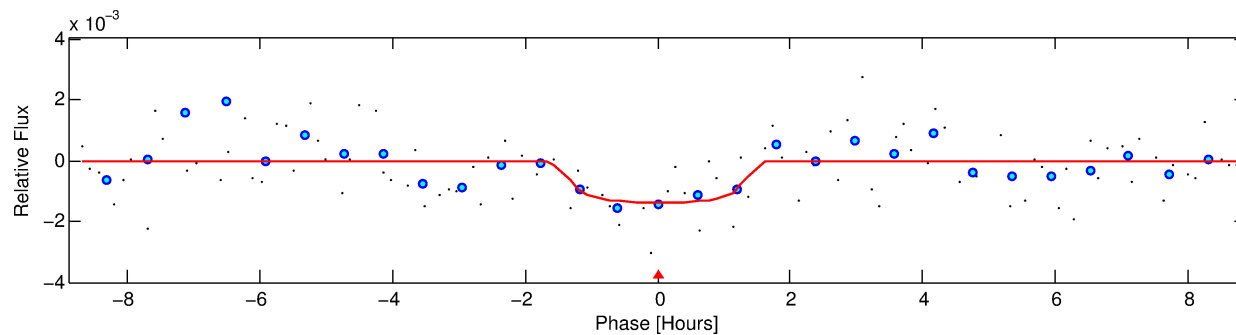
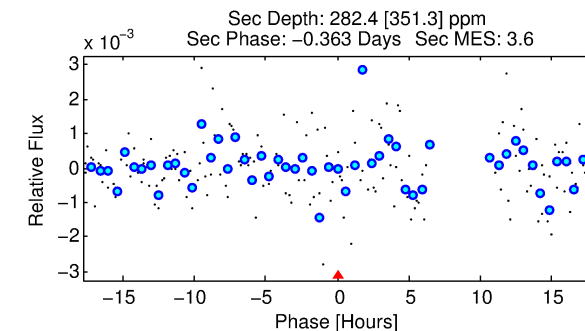
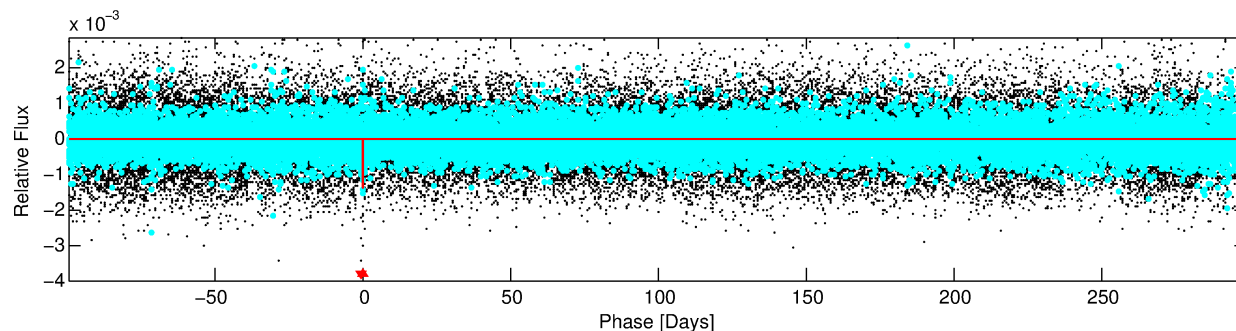
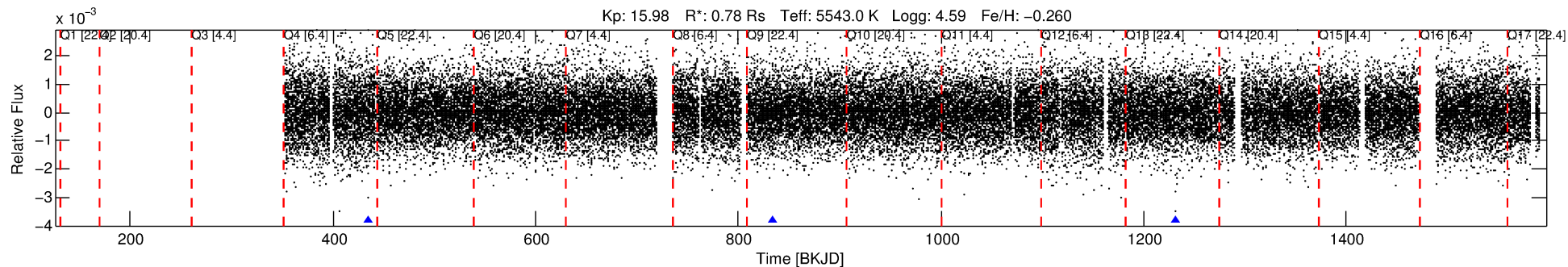
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011726050-01

No Significant Match Found

DV One-Page Summary

KIC: 11726050 Candidate: 1 of 1 Period: 398.461 d



DV Fit Results:

Period = 398.46098 [0.00966] d
Epoch = 435.2998 [0.0139] BKJD
Rp/R* = 0.0360 [0.0931]
a/R* = 832.91 [9003.68]
b = 0.65 [9.91]
Seff = 0.51 [0.14]
Teq = 215 [15] K
Rp = 3.07 [7.96] Re
a/R* = 1.0078 [0.1698] AU
Ag = 16720.56 [88886.97] [0.19σ]
Teffp = 3785 [5027] K [0.71σ]

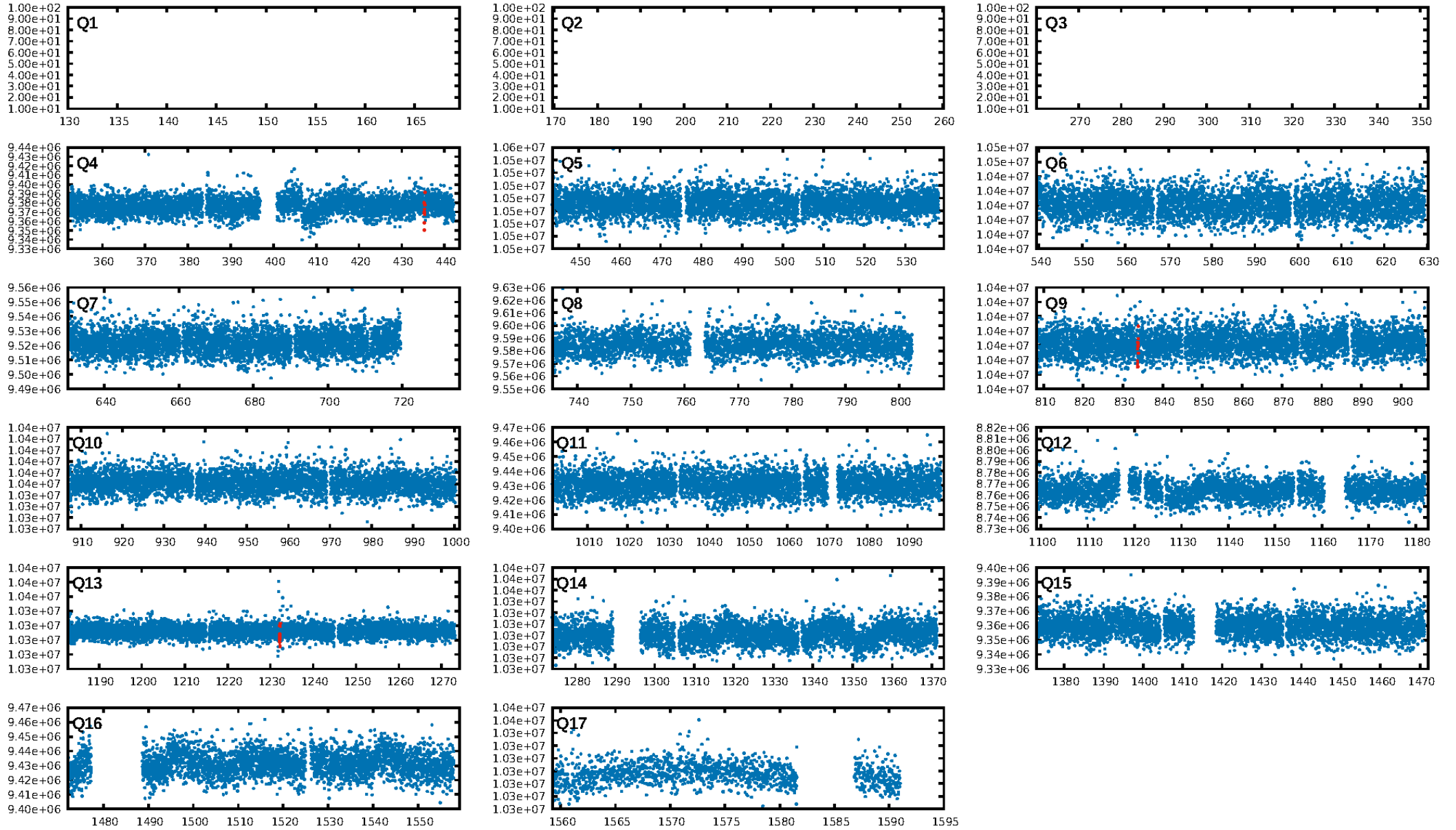
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 27.3%
ModelChiSquareGof-sig: 88.6%
Bootstrap-pfa: 6.59e-14
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 3.65
Centroid-sig: 59.9%
Centroid-so: 0.837 arcsec [0.35σ]
OotOffset-rm: 0.476 arcsec [0.21σ]
KicOffset-rm: 0.842 arcsec [0.37σ]
OotOffset-st: 0/0/1/2 [3]
KicOffset-st: 0/0/1/2 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 1.00 [3/3]

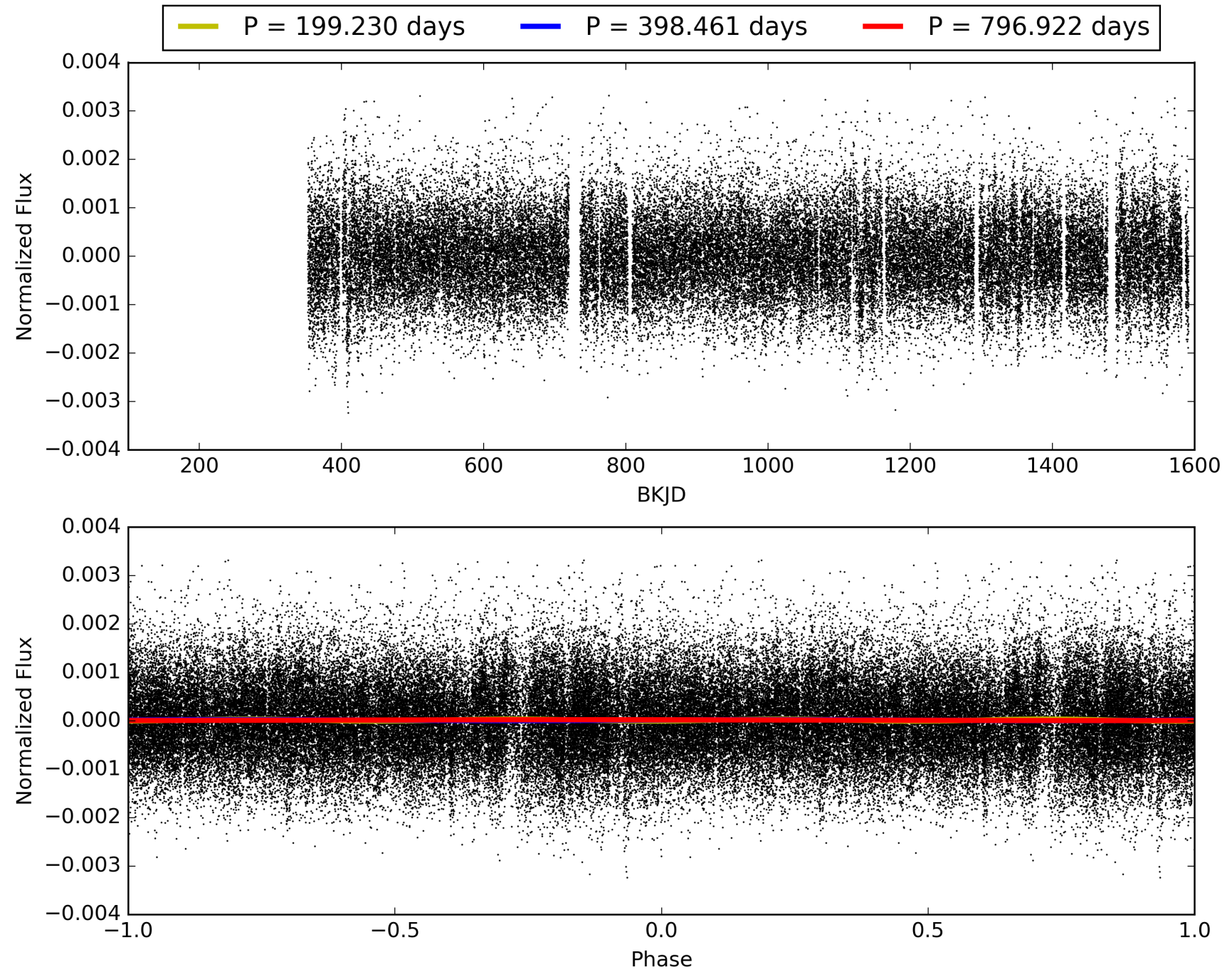
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:04:59 Z

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

TCE 011726050-01, PDC Light Curves

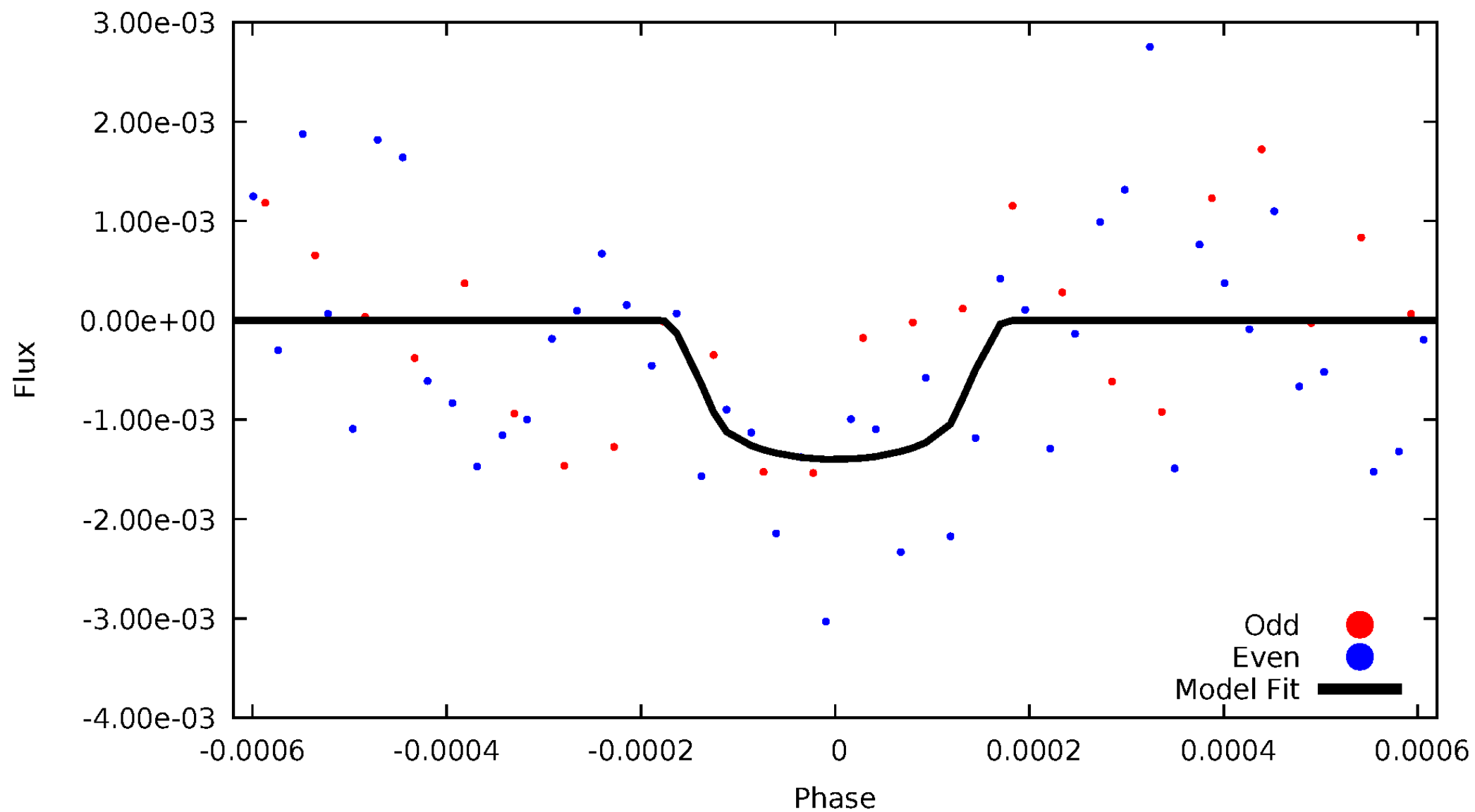


TCE 011726050-01



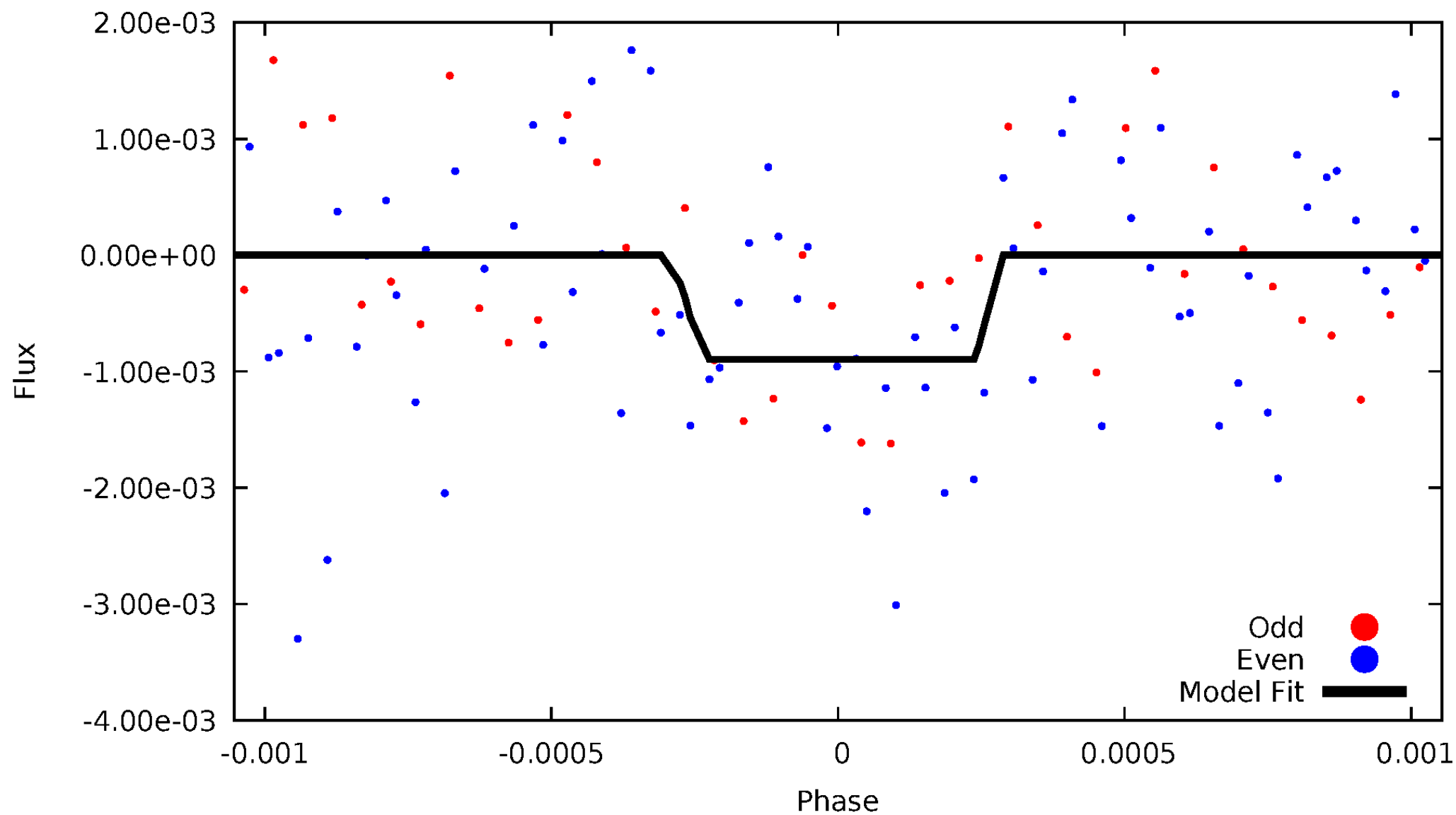
DV Odd/Even

TCE 011726050-01

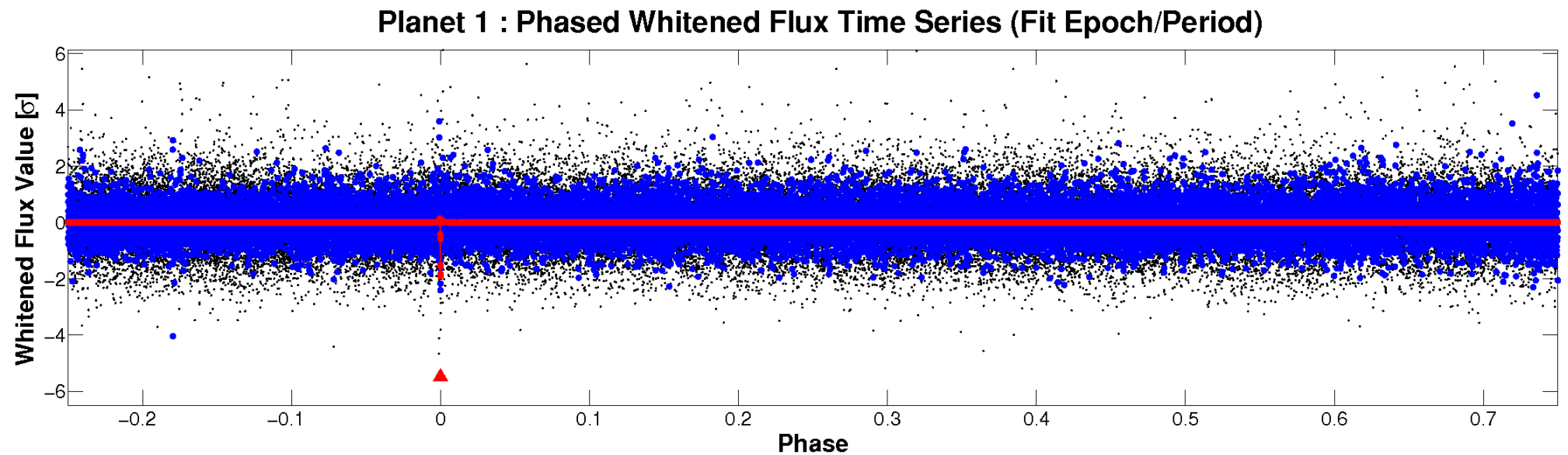
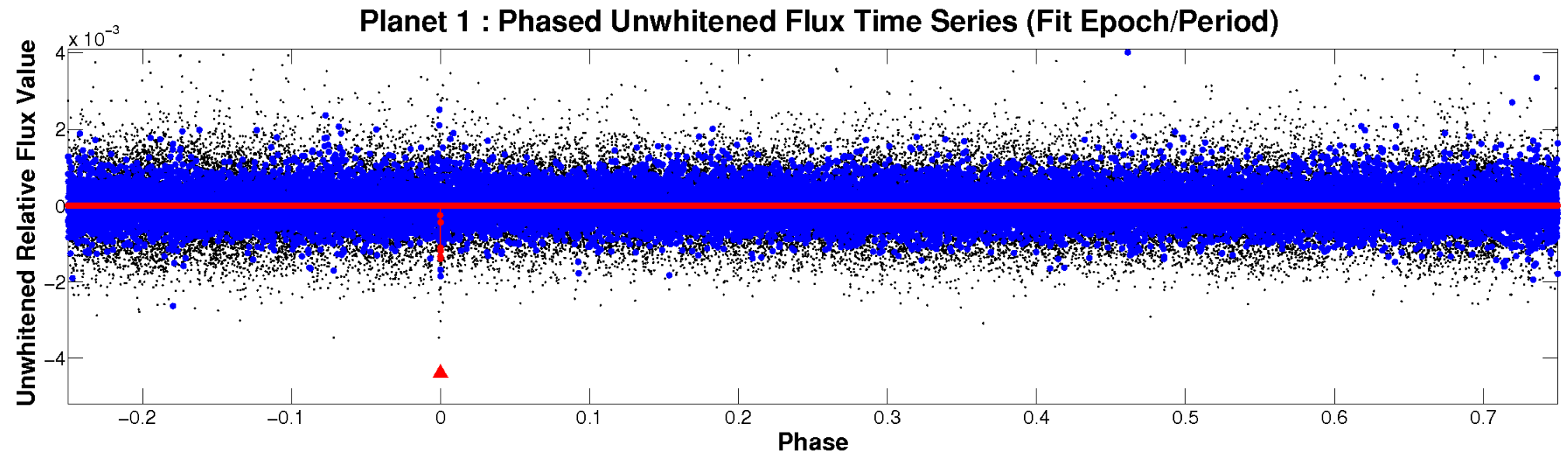


ALT Odd/Even

TCE 011726050-01

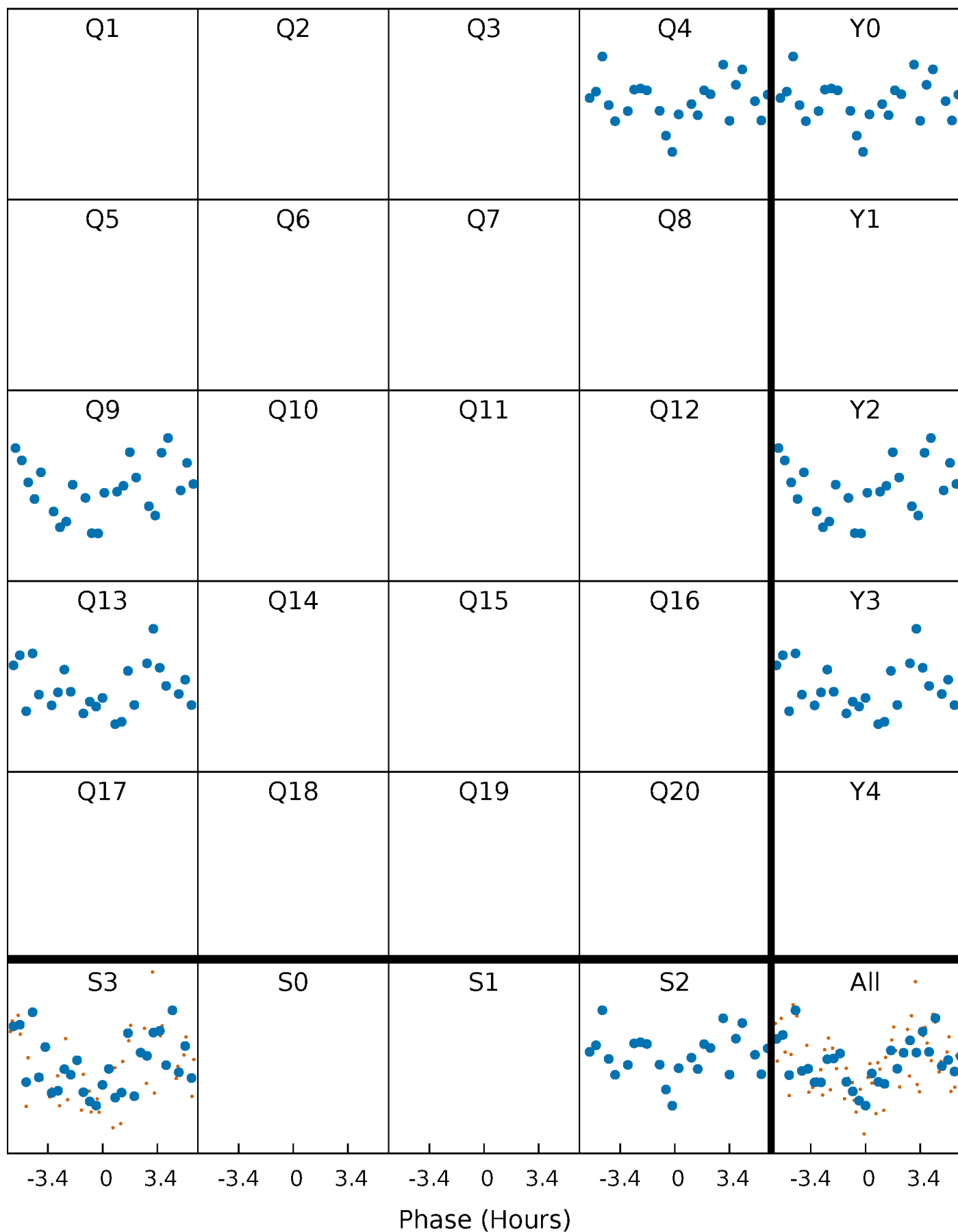


Non-Whitened Vs. Whitened Light Curve



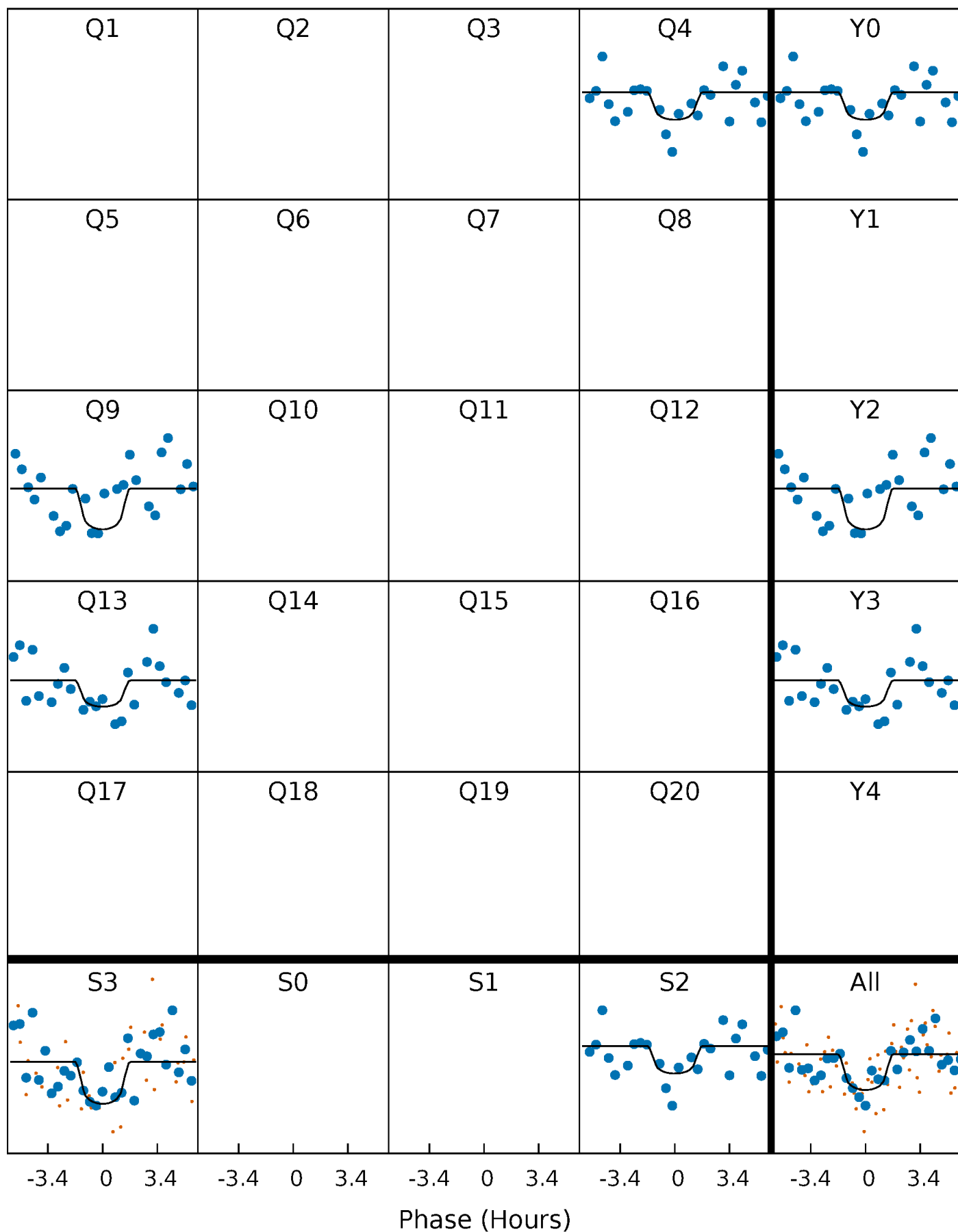
PDC Quarter-Phased Transit Curves

TCE 011726050-01 P=398.460977 Days $T_0=435.299813$ (BKJD)



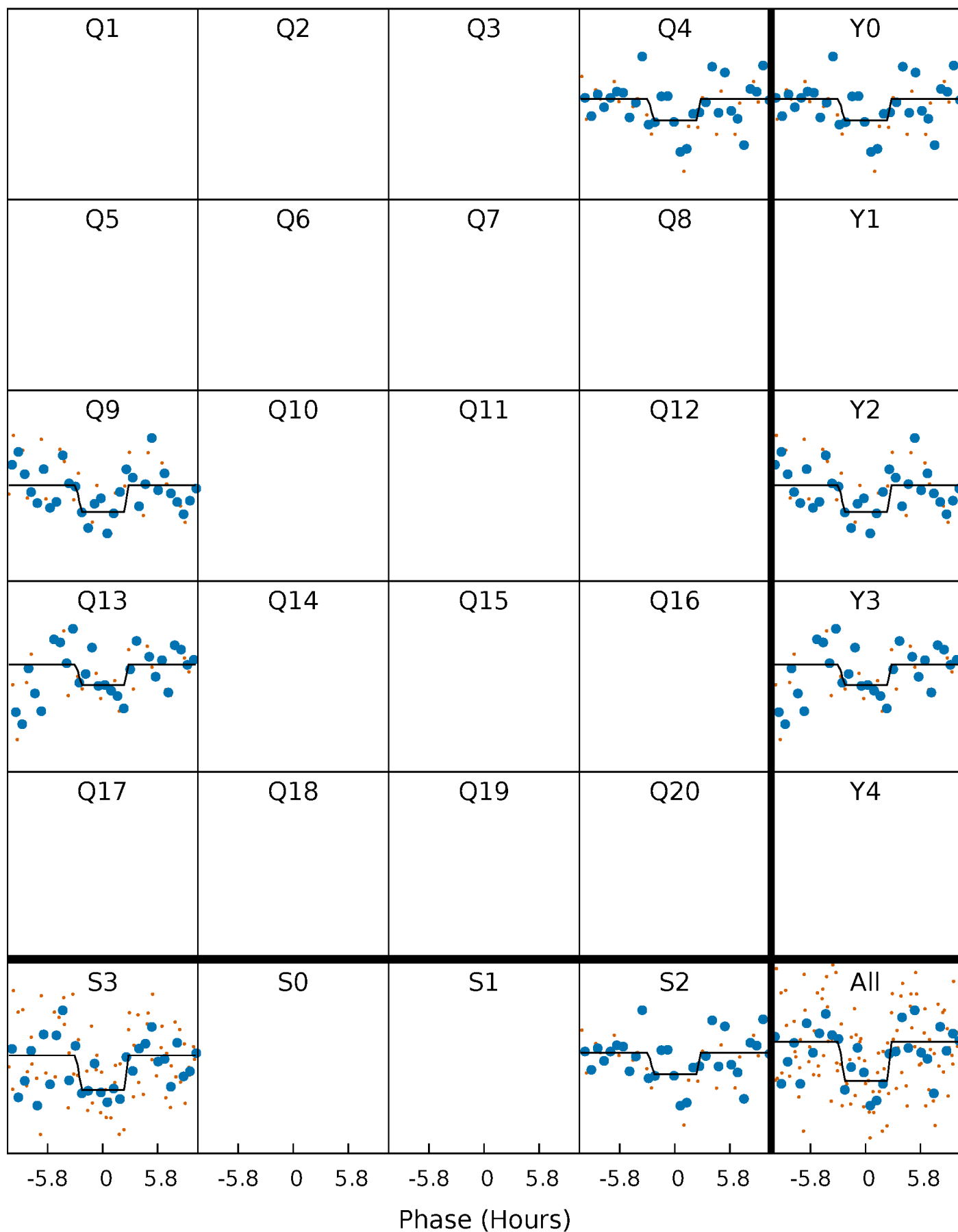
DV Quarter-Phased Transit Curves

TCE 011726050-01 P=398.460977 Days $T_0=435.299813$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

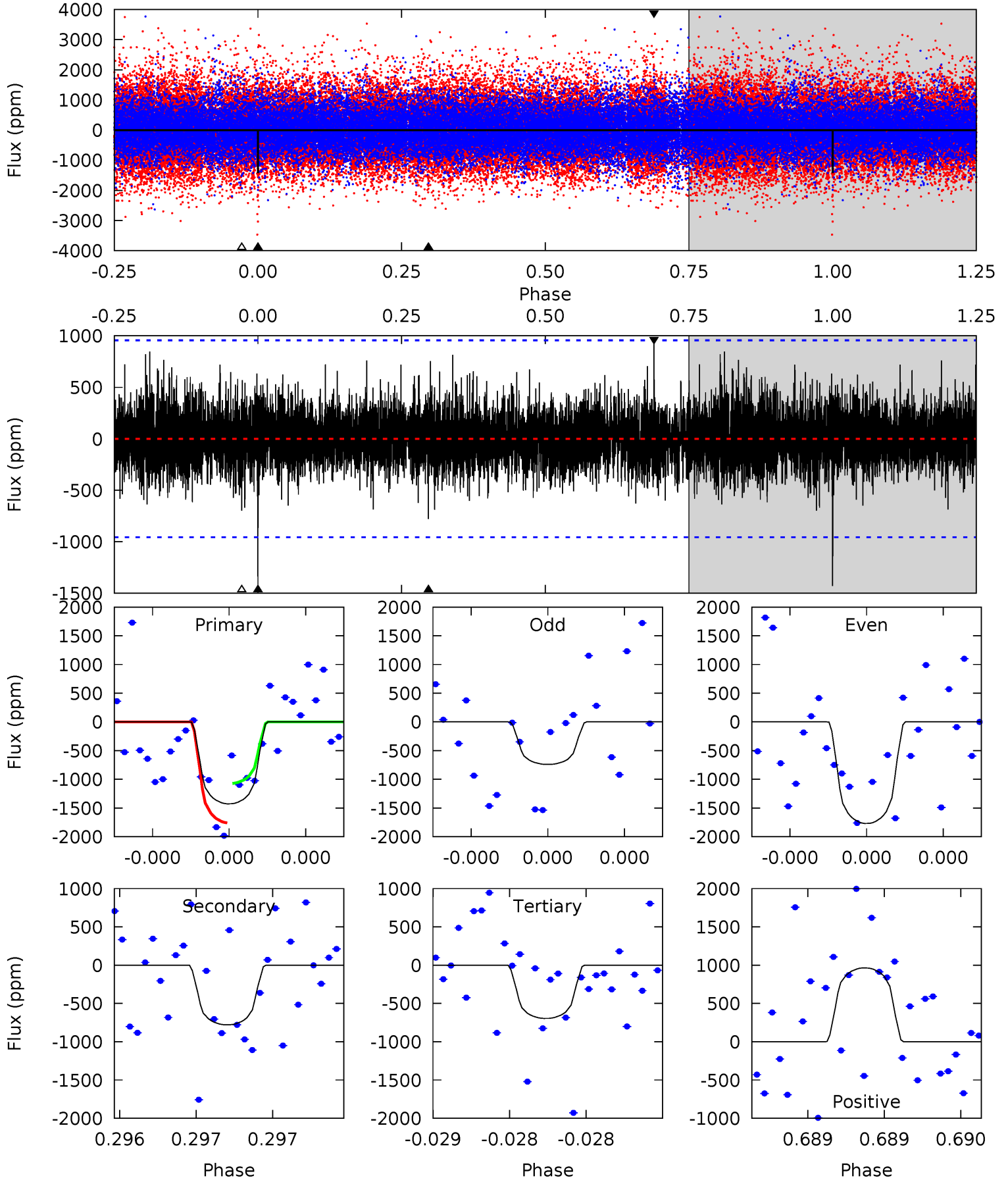
TCE 011726050-01 P=398.459445 Days $T_0=435.255733$ (BKJD)



DV Model-Shift Uniqueness Test

011726050-01, P = 398.460977 Days, E = 36.838836 Days

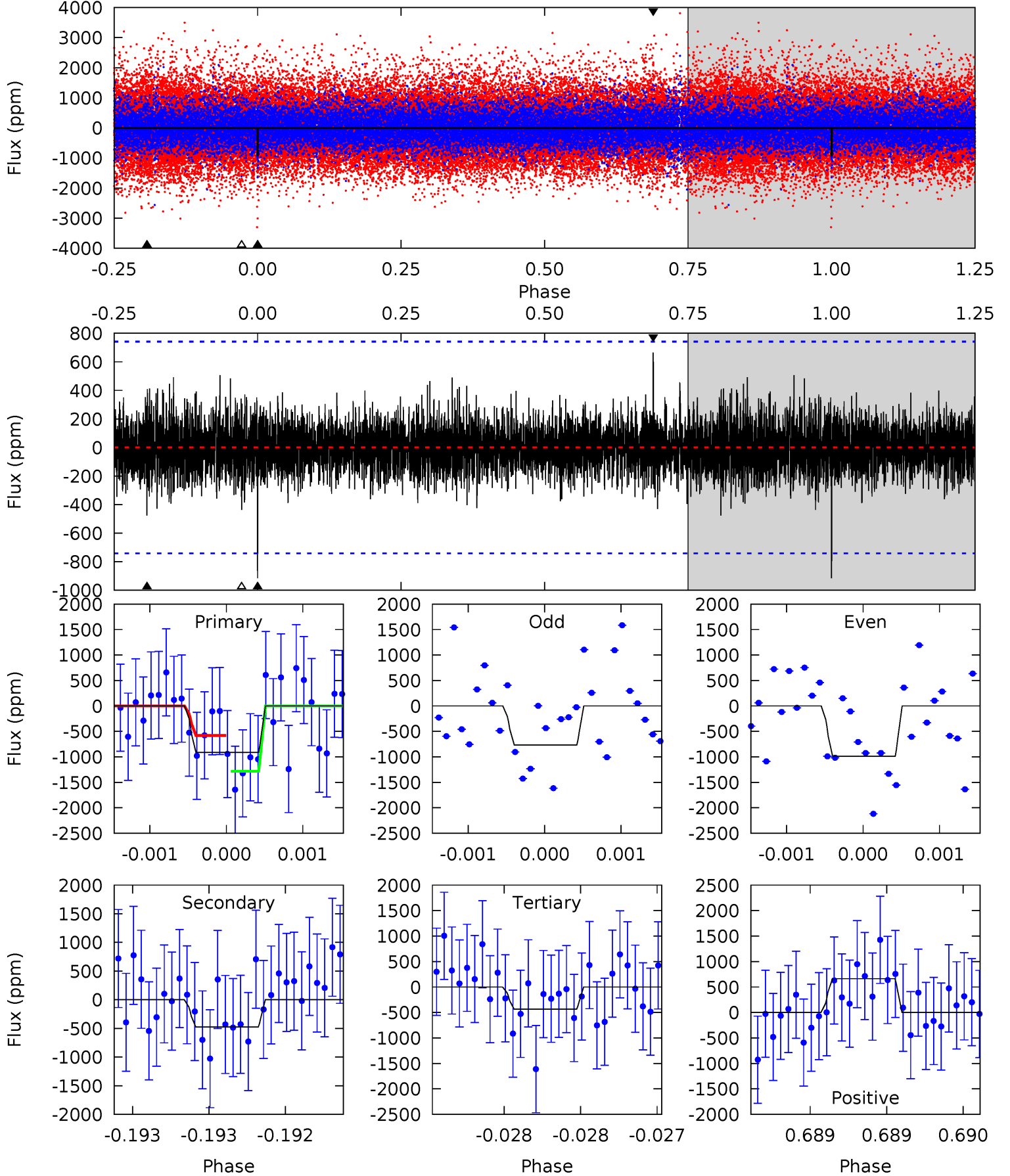
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.41	4.59	4.10	5.68	5.63	3.57	1.16	4.31	2.73	0.49	-1.09	2.80	0.81	0.40	2.03



Alt Model-Shift Uniqueness Test

011726050-01, $P = 398.459445$ Days, $E = 36.796288$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.85	3.56	3.26	4.97	5.55	3.45	0.96	3.58	1.88	0.29	-1.41	0.81	0.98	0.42	2.64



Stellar Parameters For KIC 011726050

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5543^{+175}_{-195}	$4.587^{+0.034}_{-0.127}$	$-0.260^{+0.300}_{-0.300}$	$0.781^{+0.161}_{-0.069}$	$0.867^{+0.080}_{-0.100}$	$2.563^{+0.458}_{-0.942}$
	+3%/-4%	+1%/-3%	+115%/-115%	+21%/-9%	+9%/-12%	+18%/-37%
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 011726050-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-779 ± 170	$6.48^{+6.38}_{-4.52}$	307^{+15}_{-15}	3801^{+2440}_{-785}	$10231^{+108213}_{-7839}$
Alt.	-475 ± 134	$6.82^{+6.36}_{-4.66}$	306^{+17}_{-14}	3428^{+1764}_{-627}	5564^{+44577}_{-4205}

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

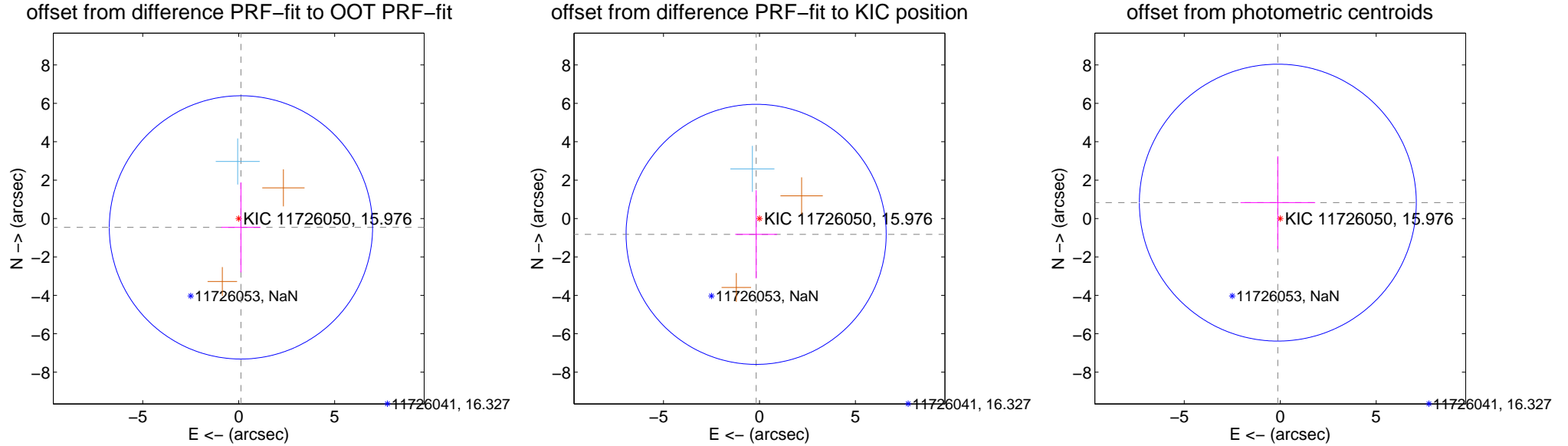
DV Centroid Data

Supplemental centroid analysis for 011726050-01. Kepler magnitude: 15.98. Transit SNR 6.81

There are 1 quarters with good PRF difference image offsets

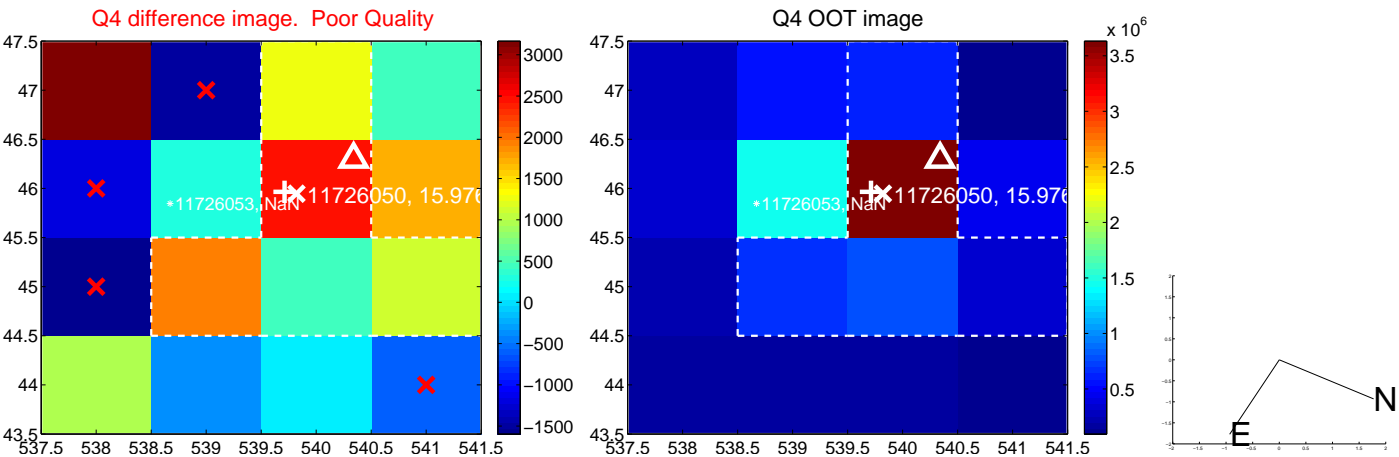
The direct PRF centroid is offset from the target star catalog position by about 0.47 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.476 ± 2.286	0.21	-0.117 ± 1.019	-0.461 ± 2.344
PRF-fit source offset from KIC position	0.842 ± 2.258	0.37	0.173 ± 1.090	-0.824 ± 2.296
photometric centroid source offset	0.84 ± 2.40	0.35	0.12 ± 1.94	0.83 ± 2.41



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.

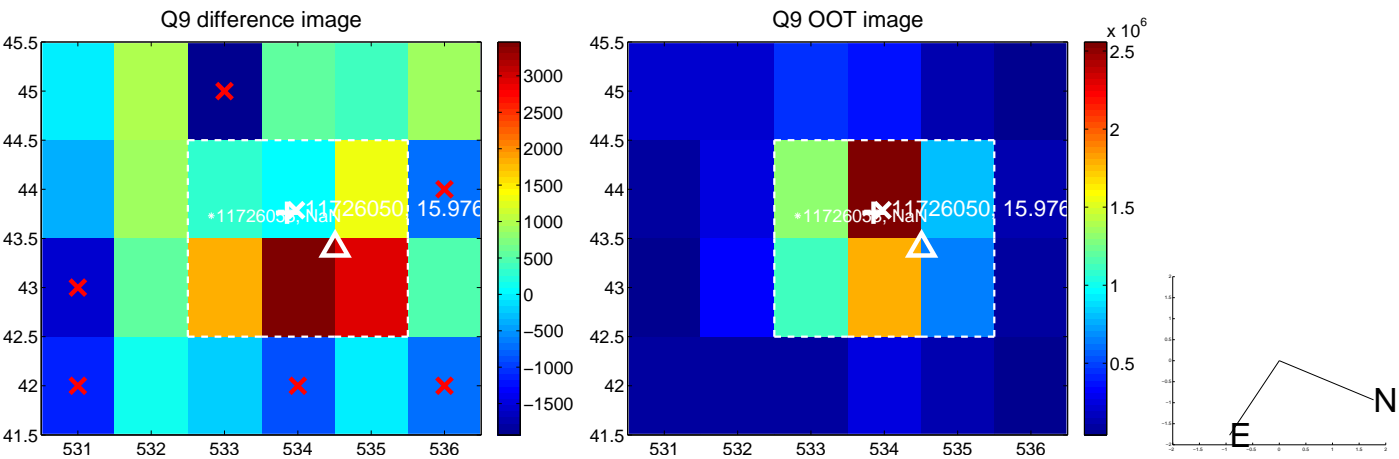
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



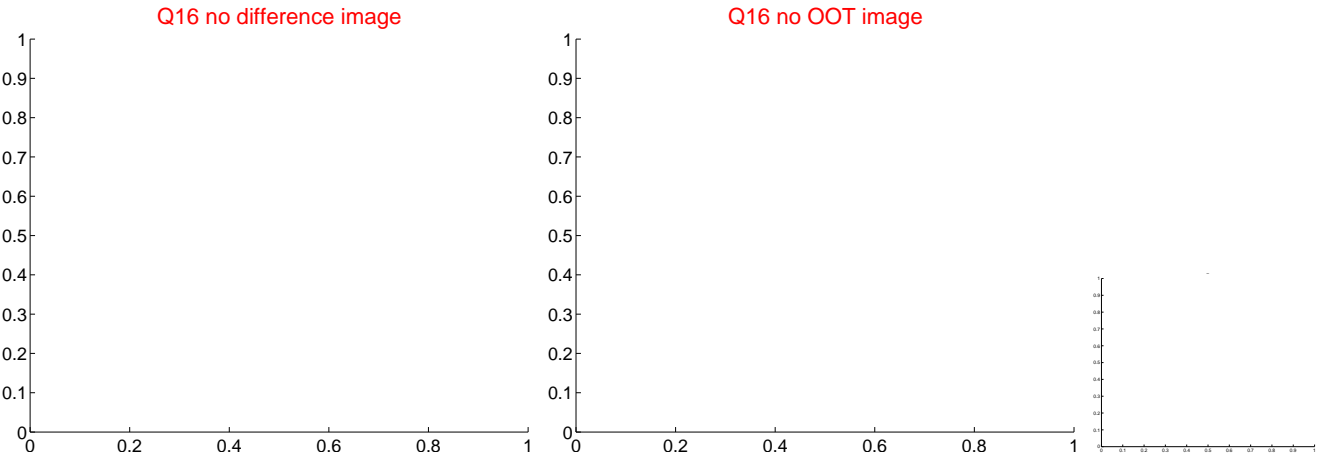
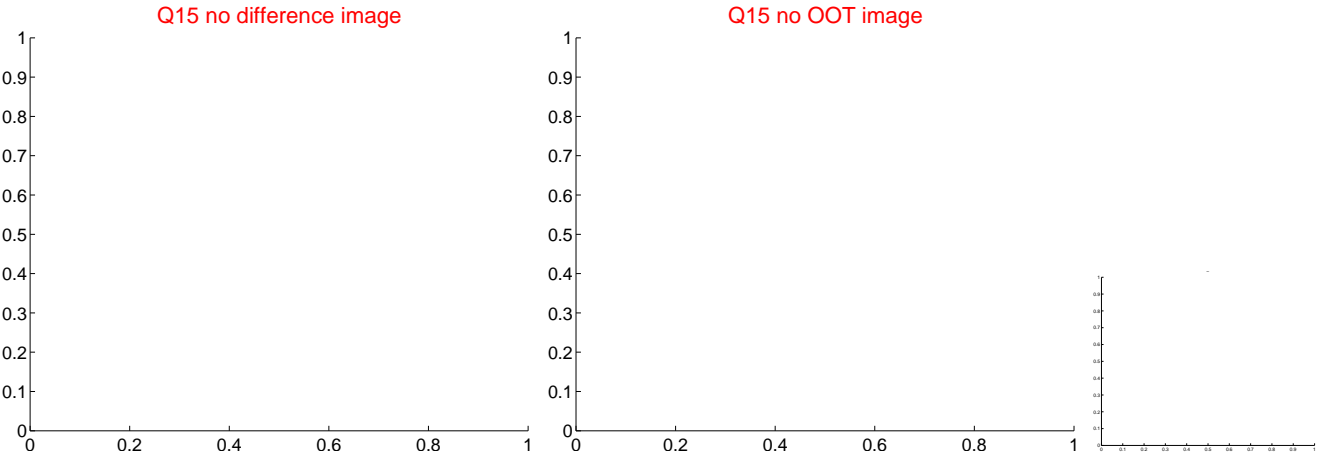
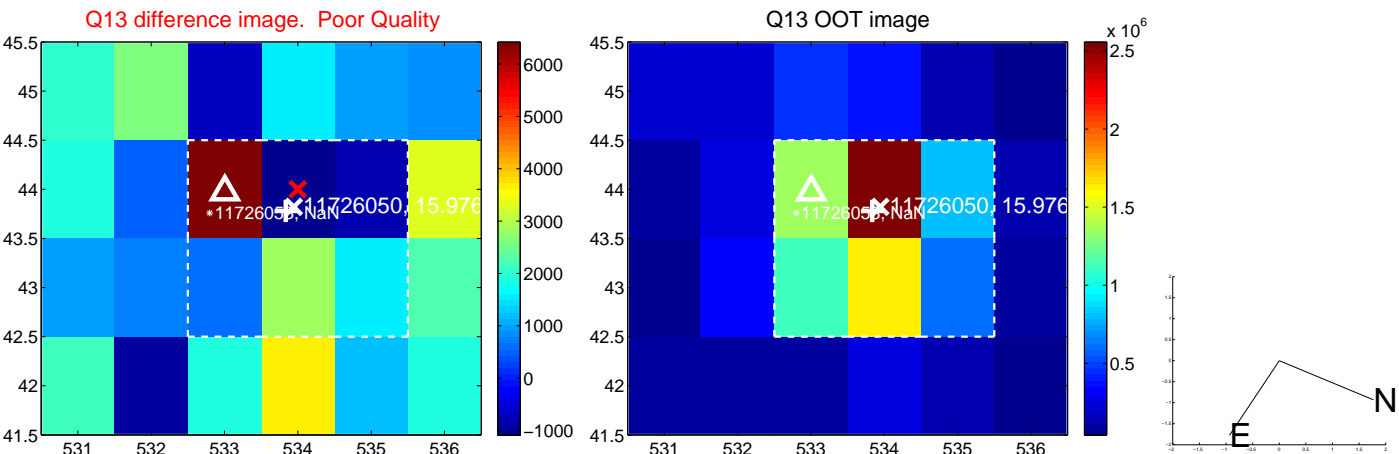
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



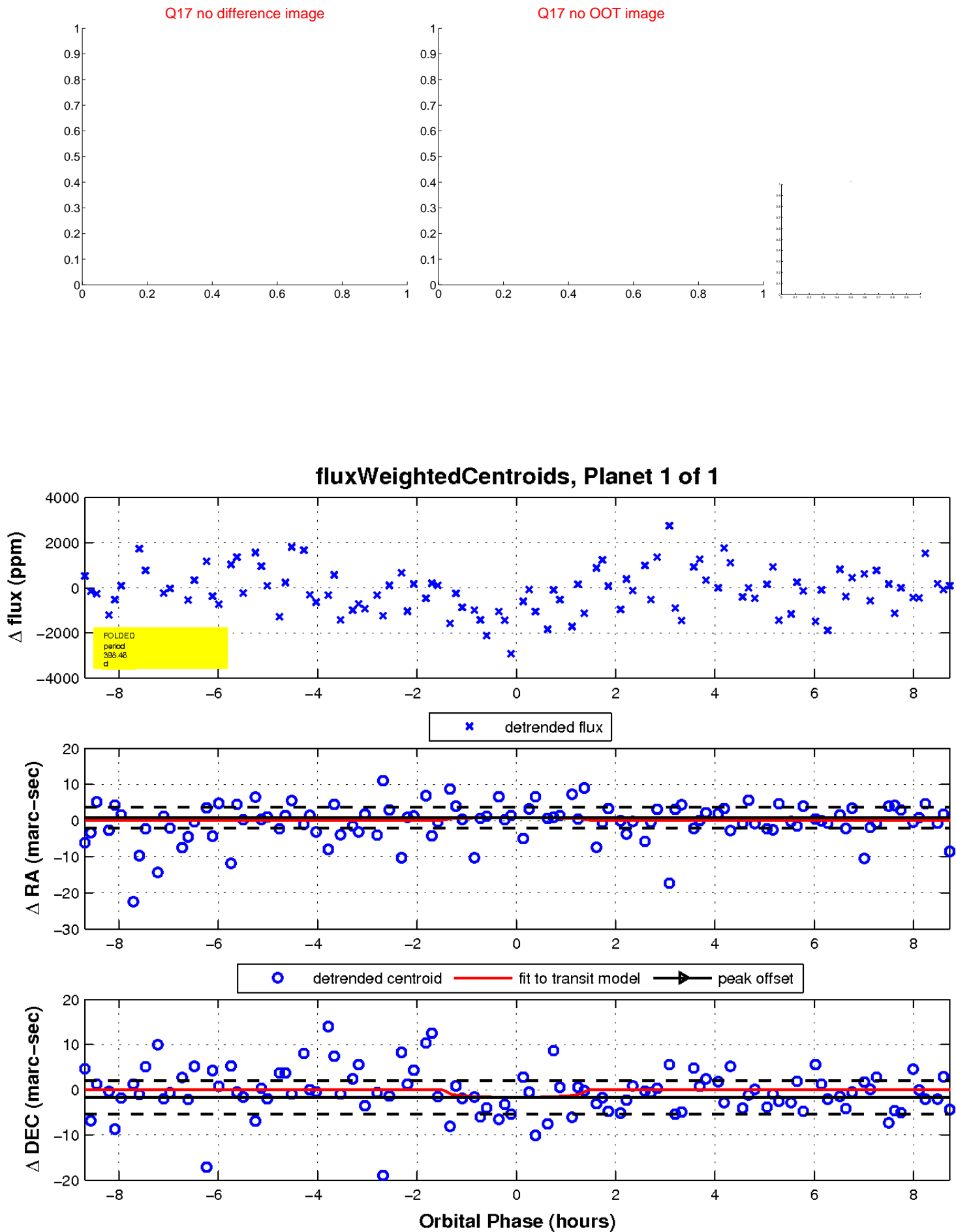
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

