

KIC 01141026

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})
01141026-01	OBS	No	360.962943	299.577831	329.8	5.718	10.1	8.2	0.81	5497	1.68	0.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
01141026-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

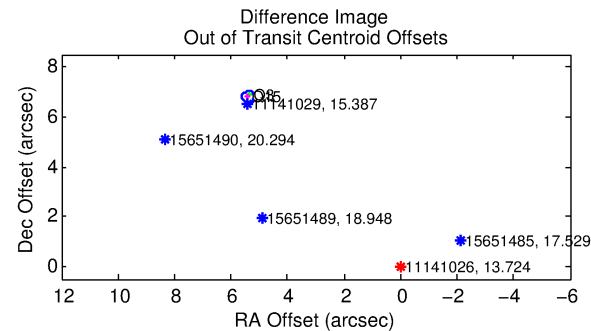
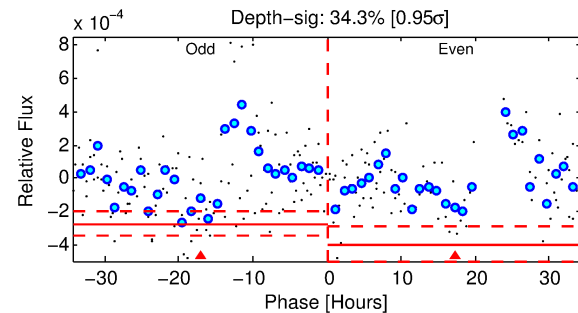
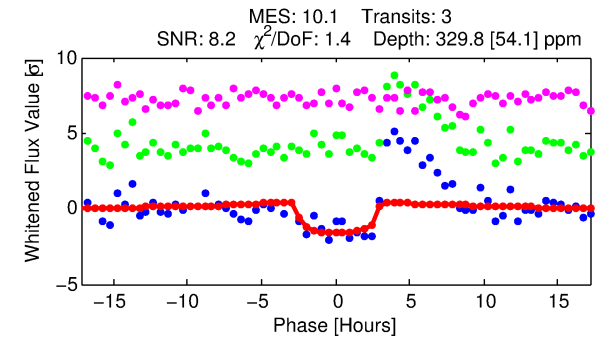
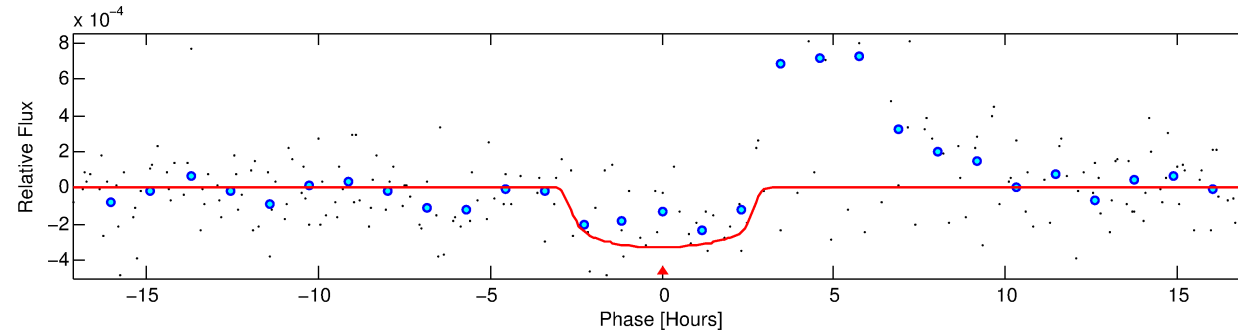
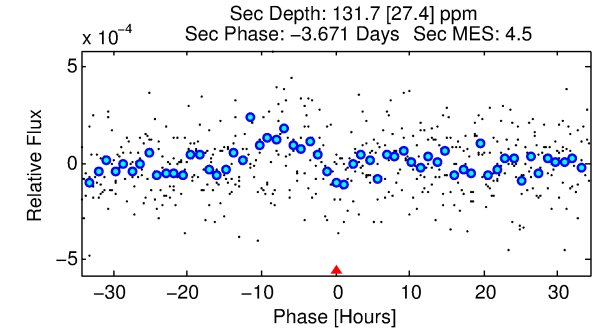
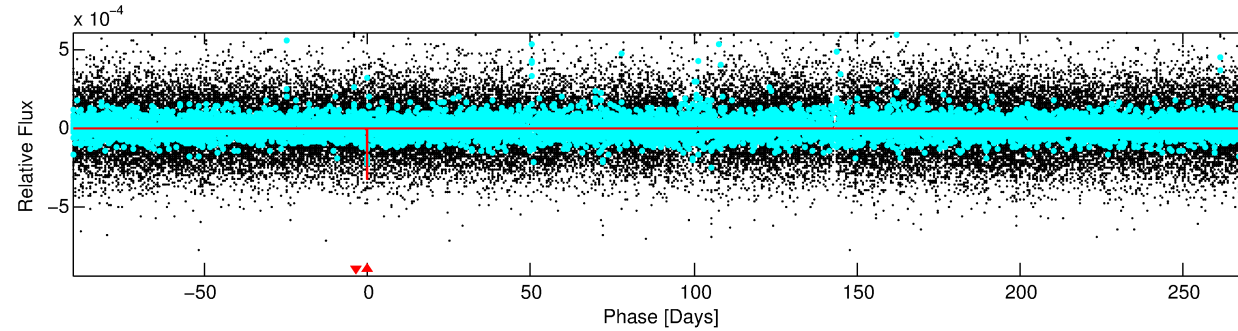
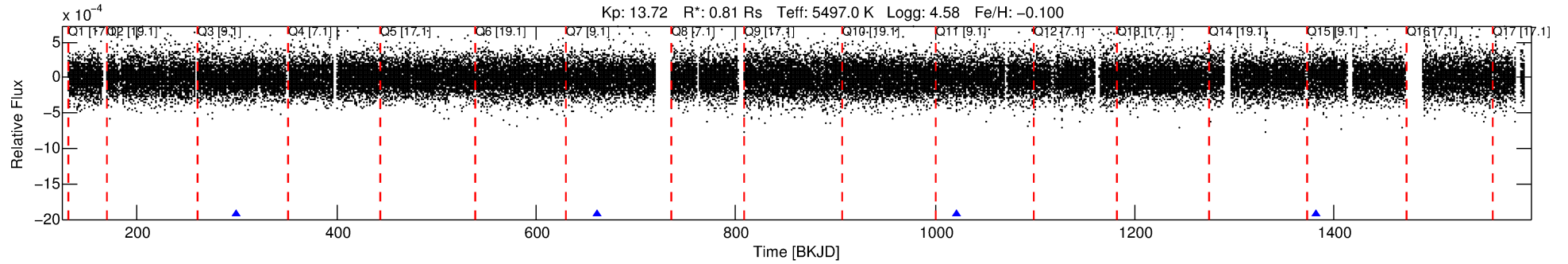
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 01141026-01

No Significant Match Found

DV One-Page Summary

KIC: 11141026 Candidate: 1 of 1 Period: 360.963 d



DV Fit Results:

Period = 360.96294 [0.00721] d
Epoch = 299.5778 [0.0160] BKJD
Rp/R* = 0.0190 [0.0129]
a/R* = 274.85 [796.10]
b = 0.84 [1.00]
Seff = 0.58 [0.17]
Teq = 223 [16] K
Rp = 1.68 [1.19] Re
a = 0.9586 [0.1674] AU
Ag = 23616.76 [33040.65] [0.71σ]
Teff = 4270 [1473] K [2.75σ]

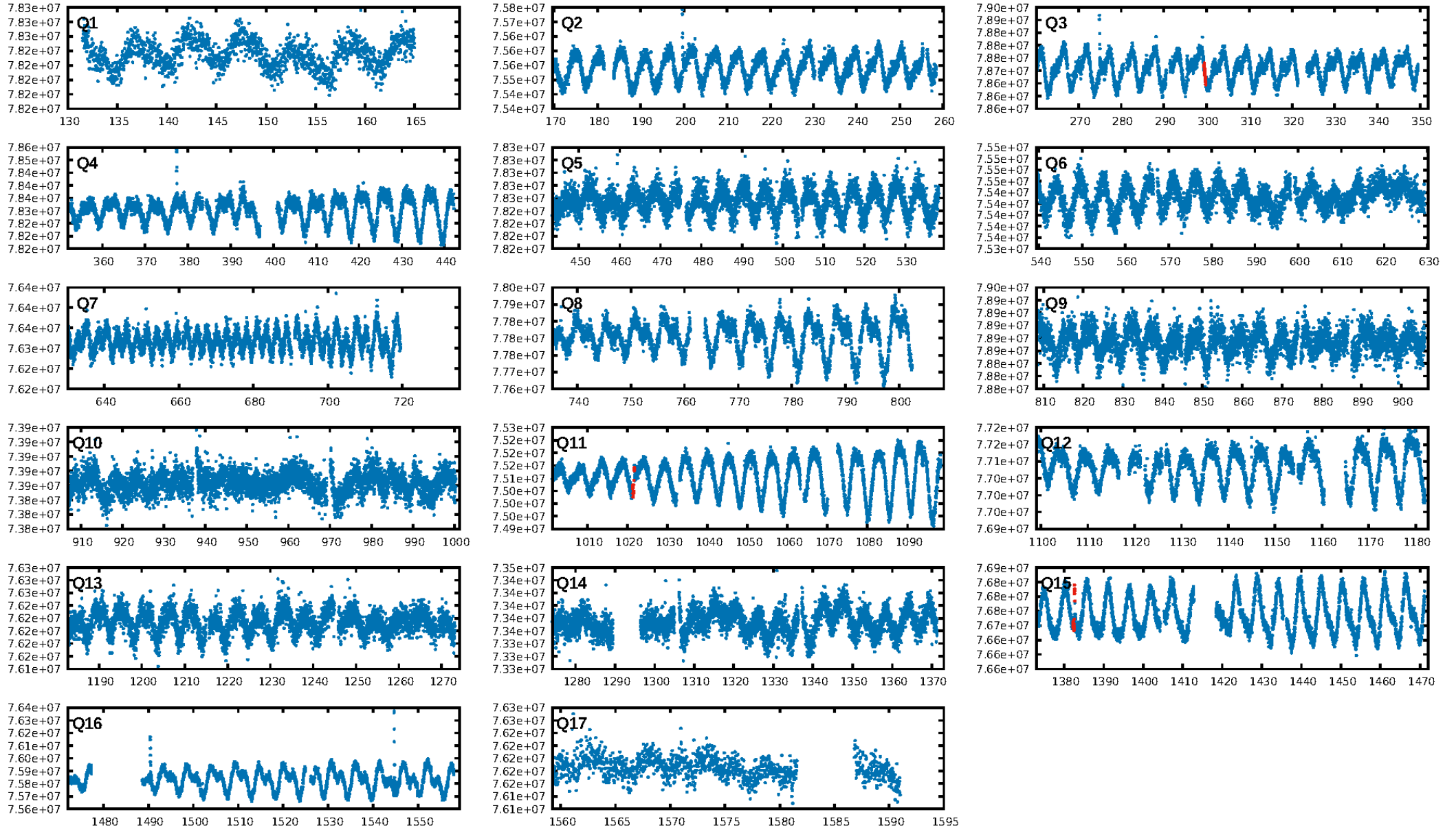
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.3%
ModelChiSquareGoF-sig: 70.5%
Bootstrap-pfa: 3.04e-17
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.6916
Centroid-sig: 0.0%
Centroid-so: 24.916 arcsec [4.96σ]
OotOffset-rm: 8.676 arcsec [112.47σ]
KicOffset-rm: 8.456 arcsec [99.21σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

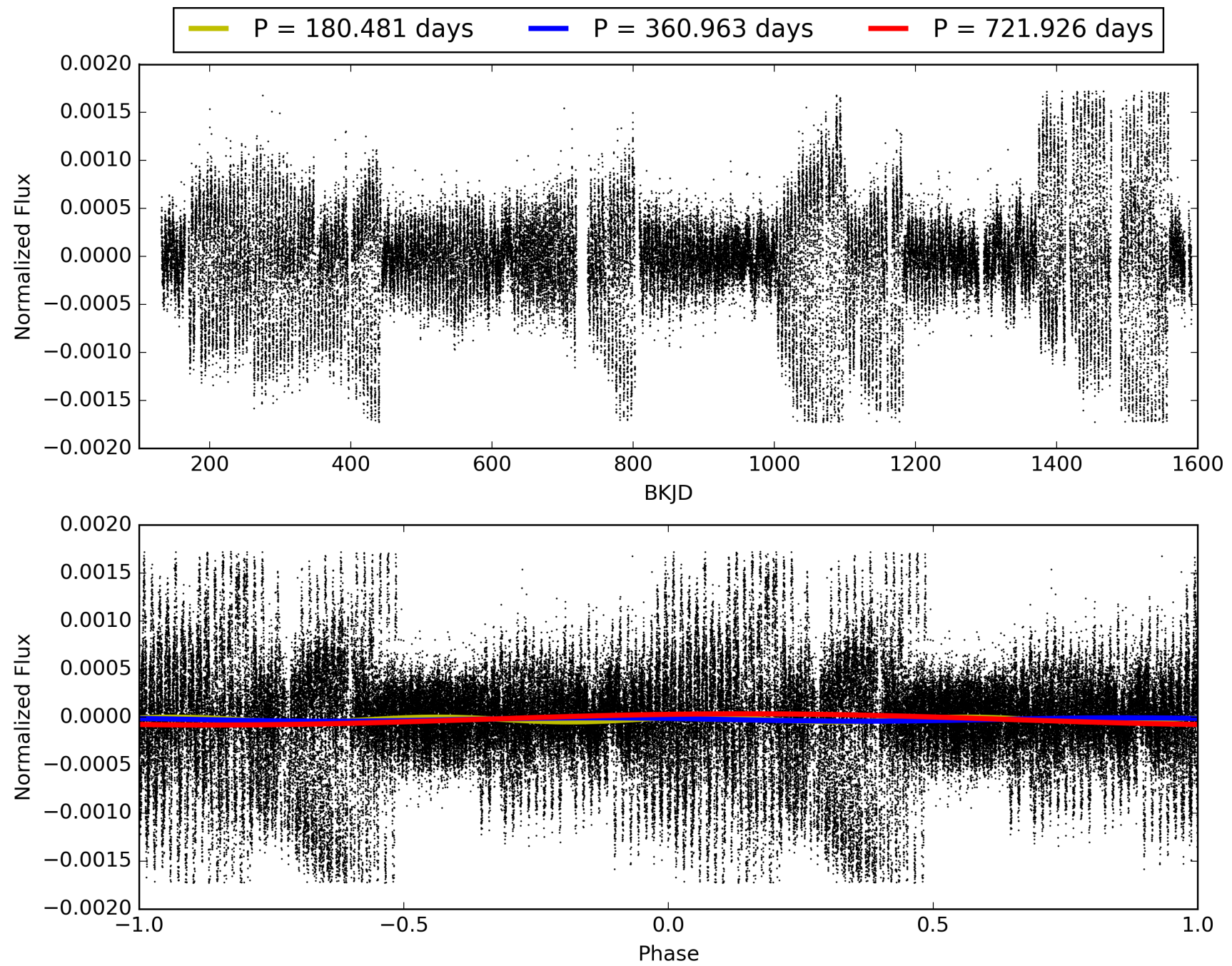
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:42:08 Z

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

TCE 011141026-01, PDC Light Curves

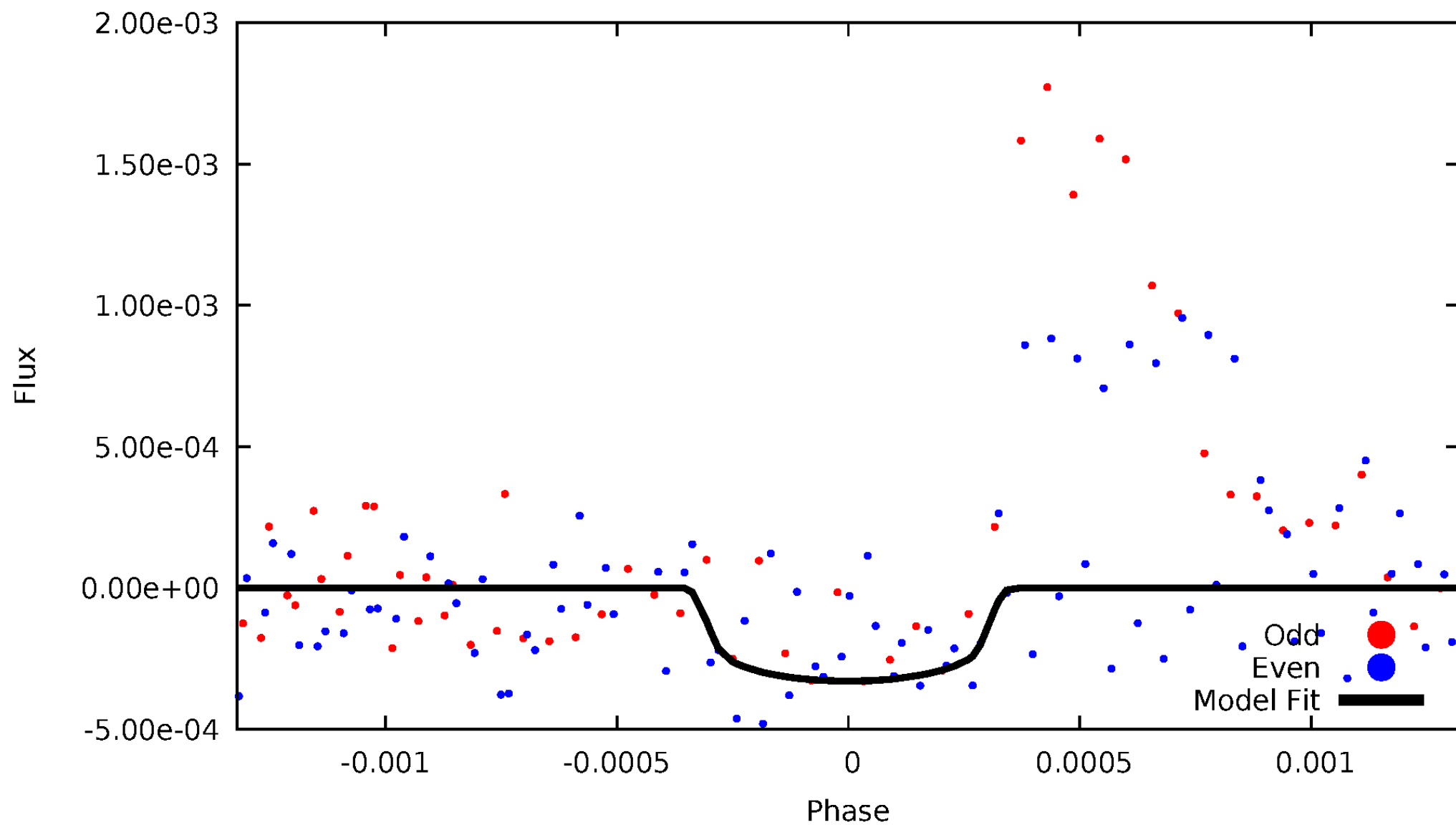


TCE 011141026-01



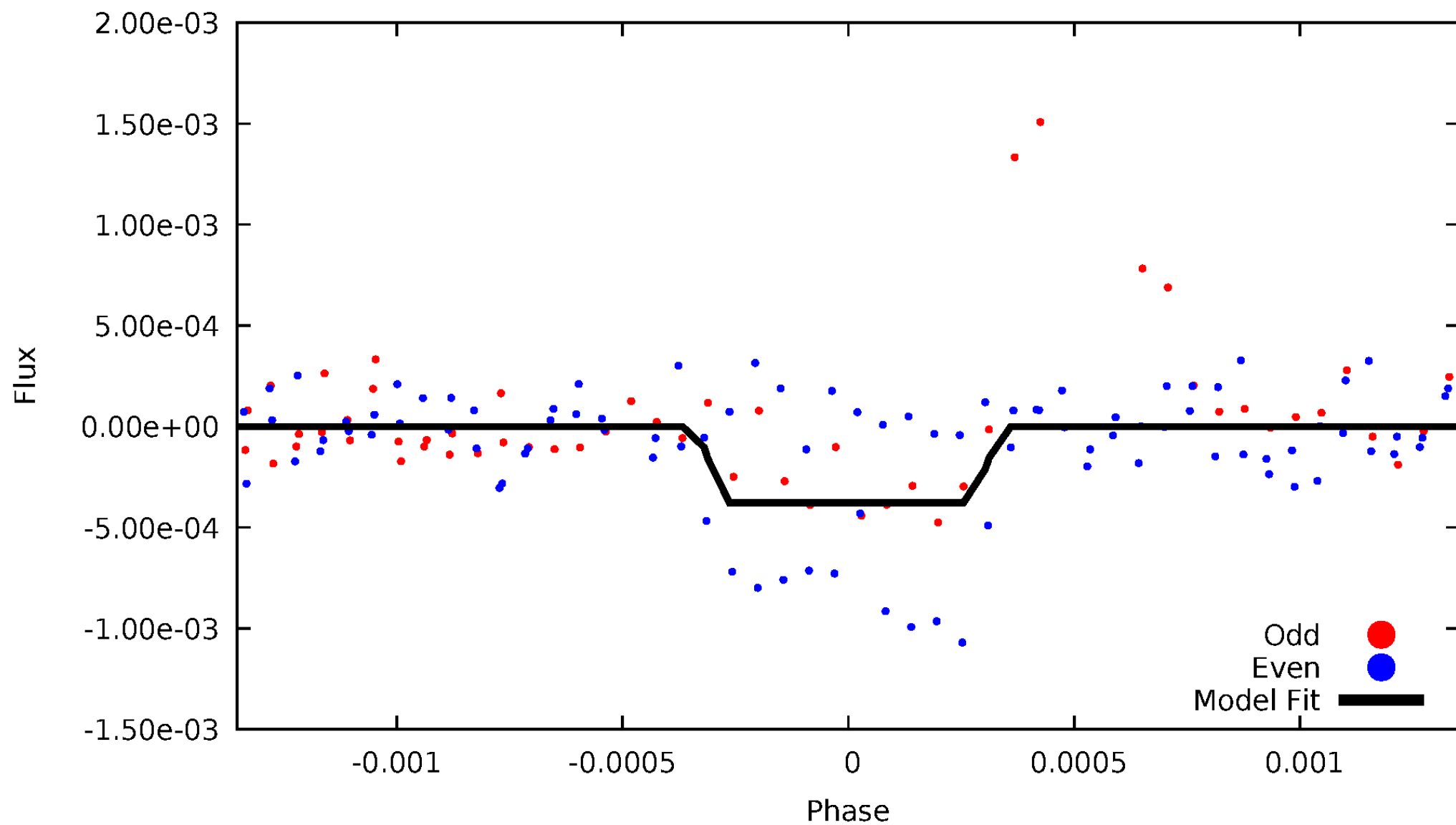
DV Odd/Even

TCE 011141026-01

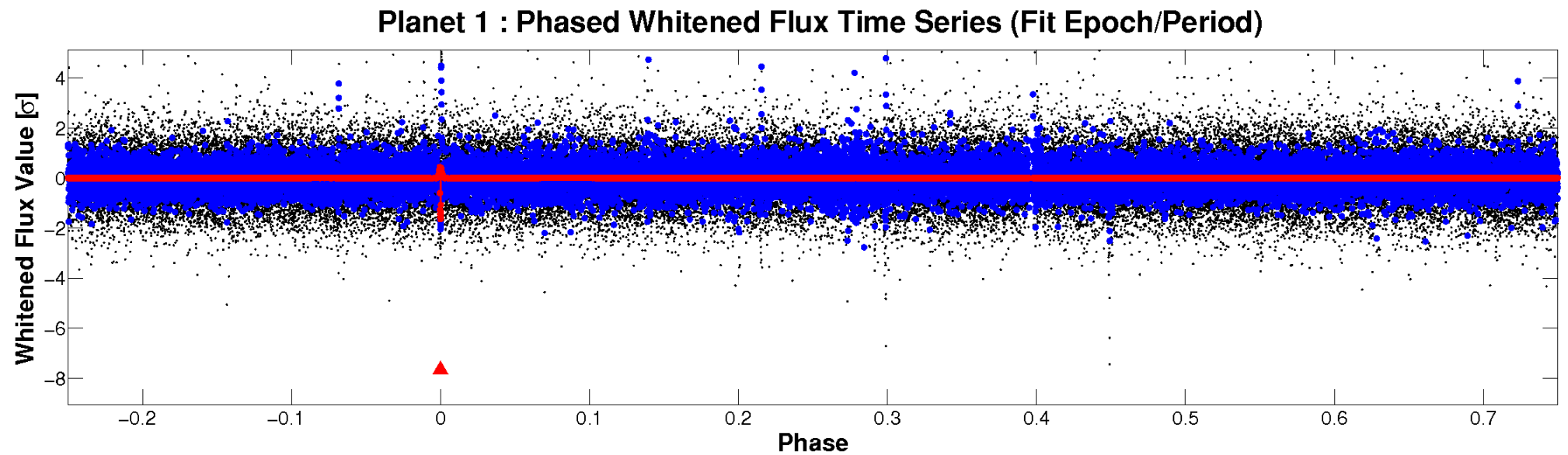
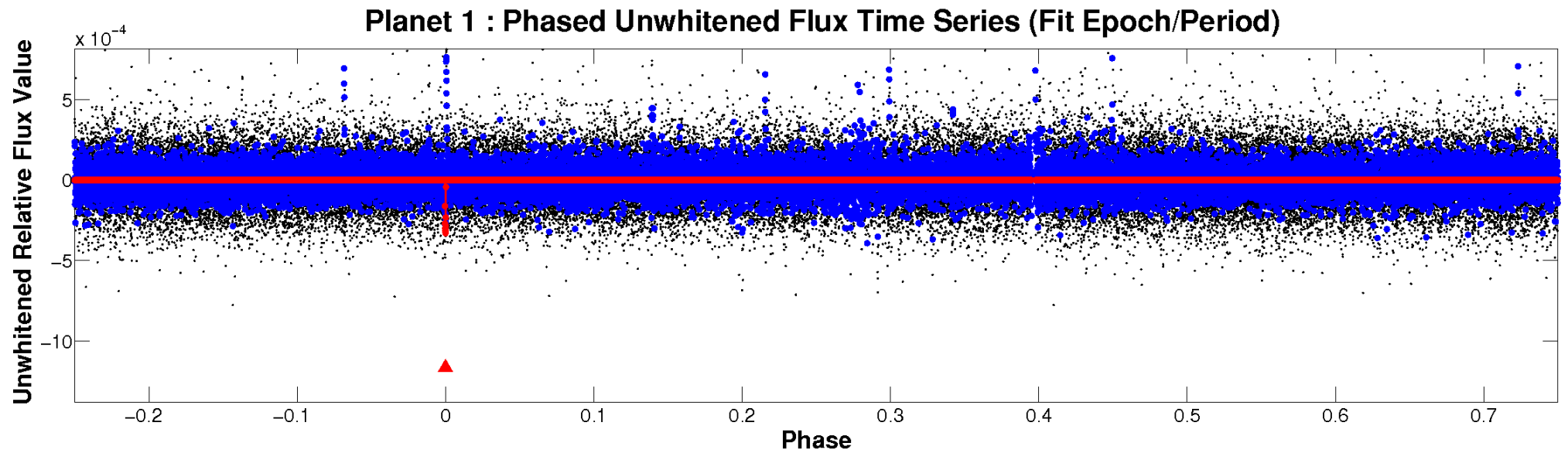


ALT Odd/Even

TCE 011141026-01

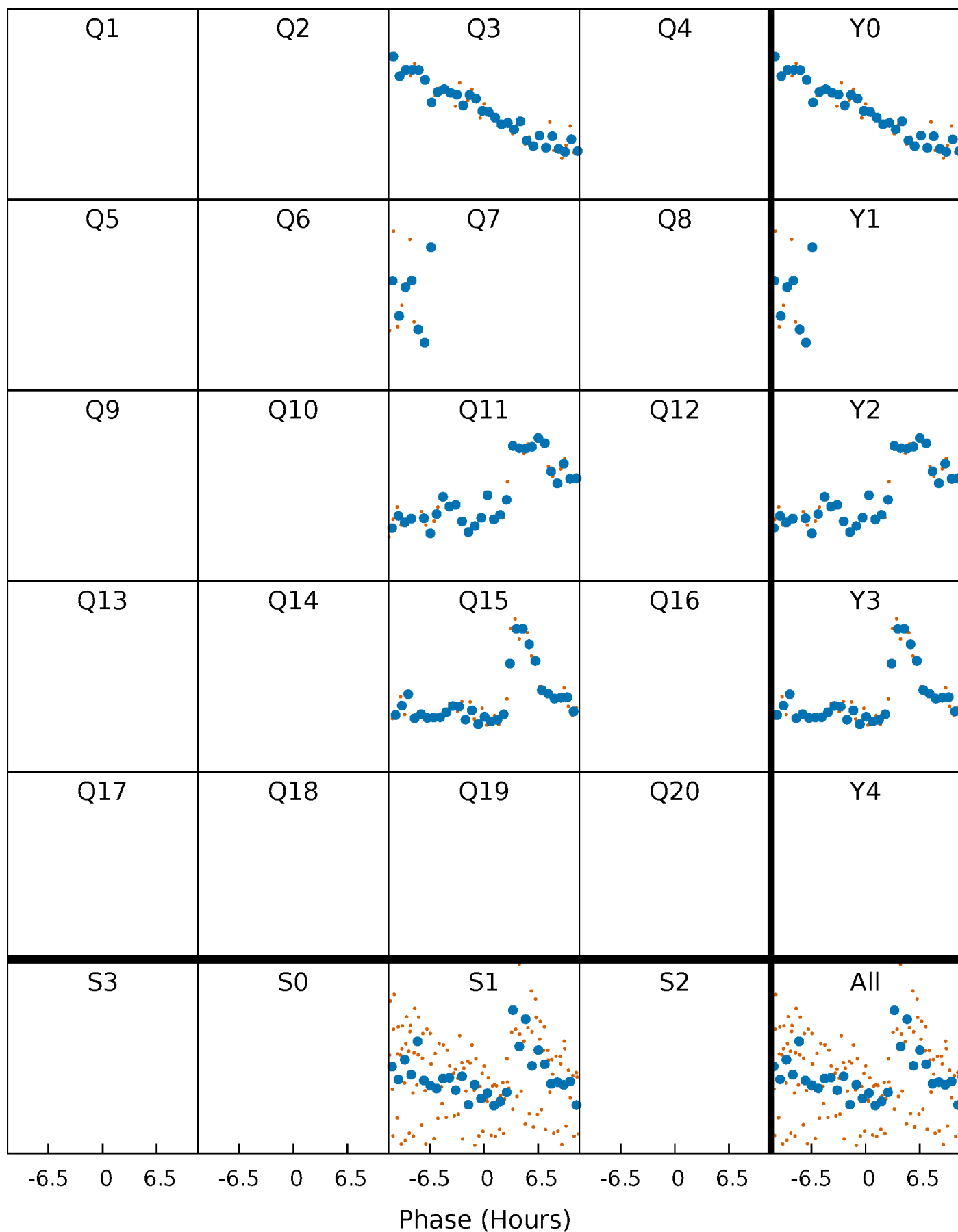


Non-Whitened Vs. Whitened Light Curve



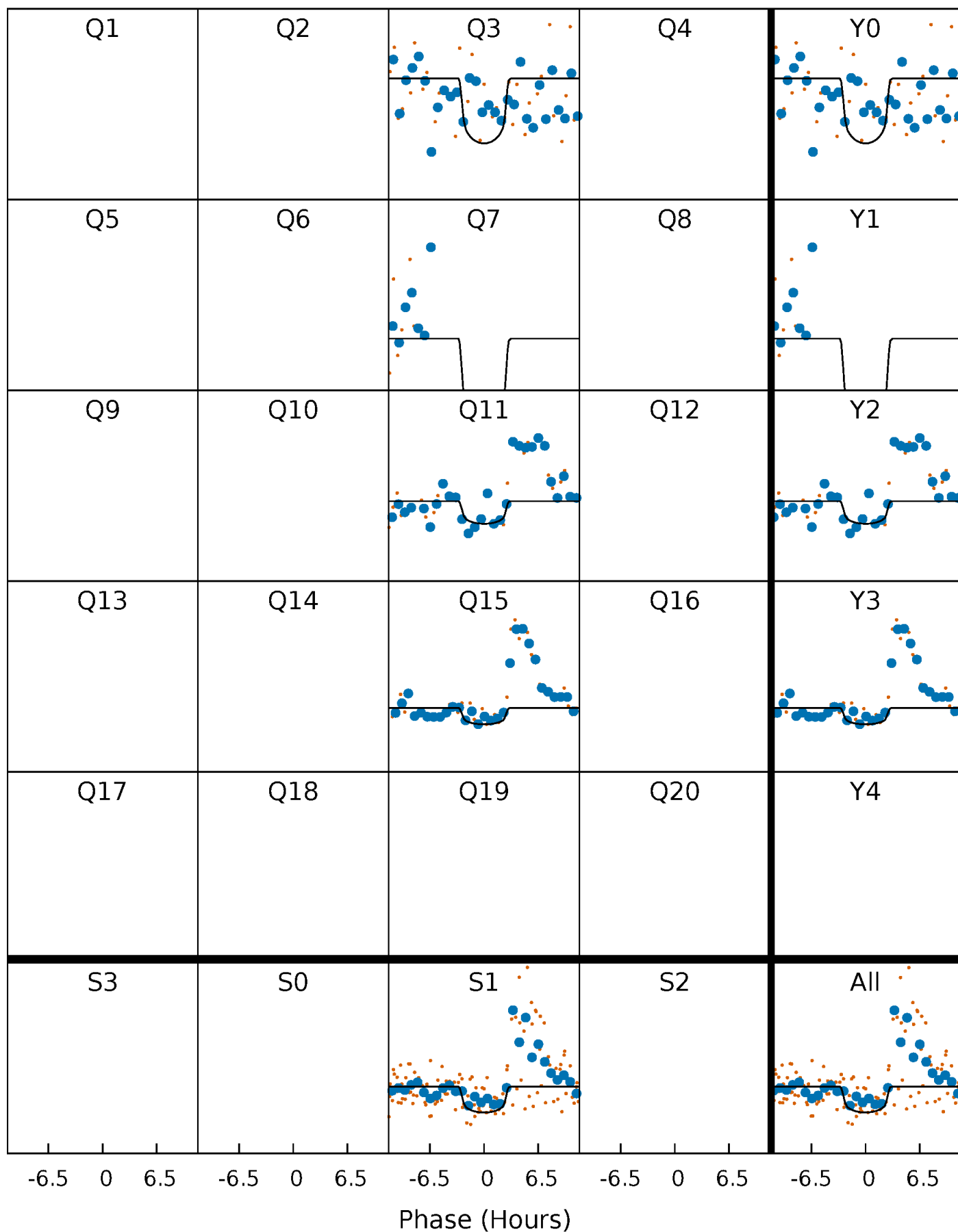
PDC Quarter-Phased Transit Curves

TCE 011141026-01 P=360.962943 Days $T_0=299.577831$ (BKJD)



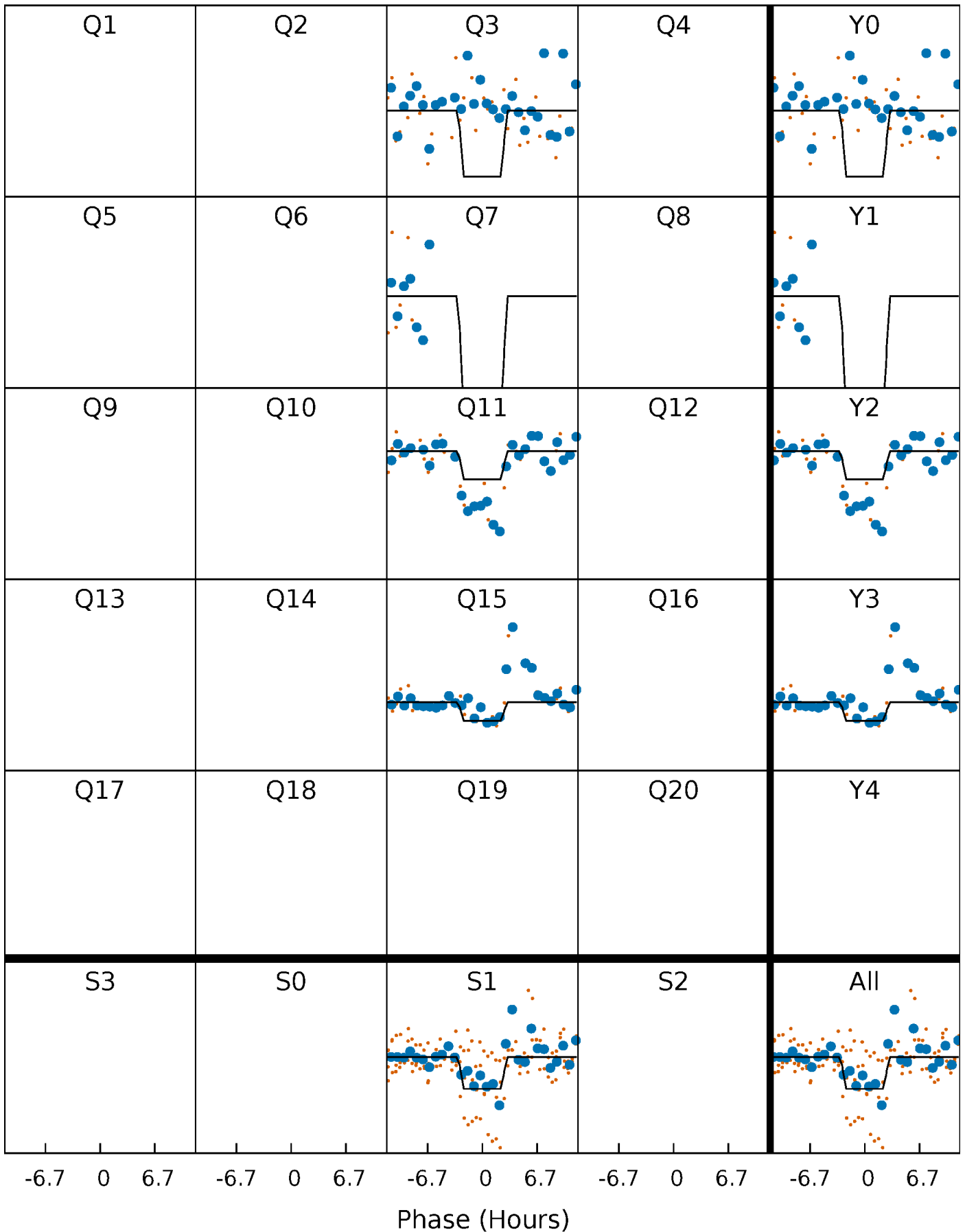
DV Quarter-Phased Transit Curves

TCE 011141026-01 P=360.962943 Days $T_0=299.577831$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

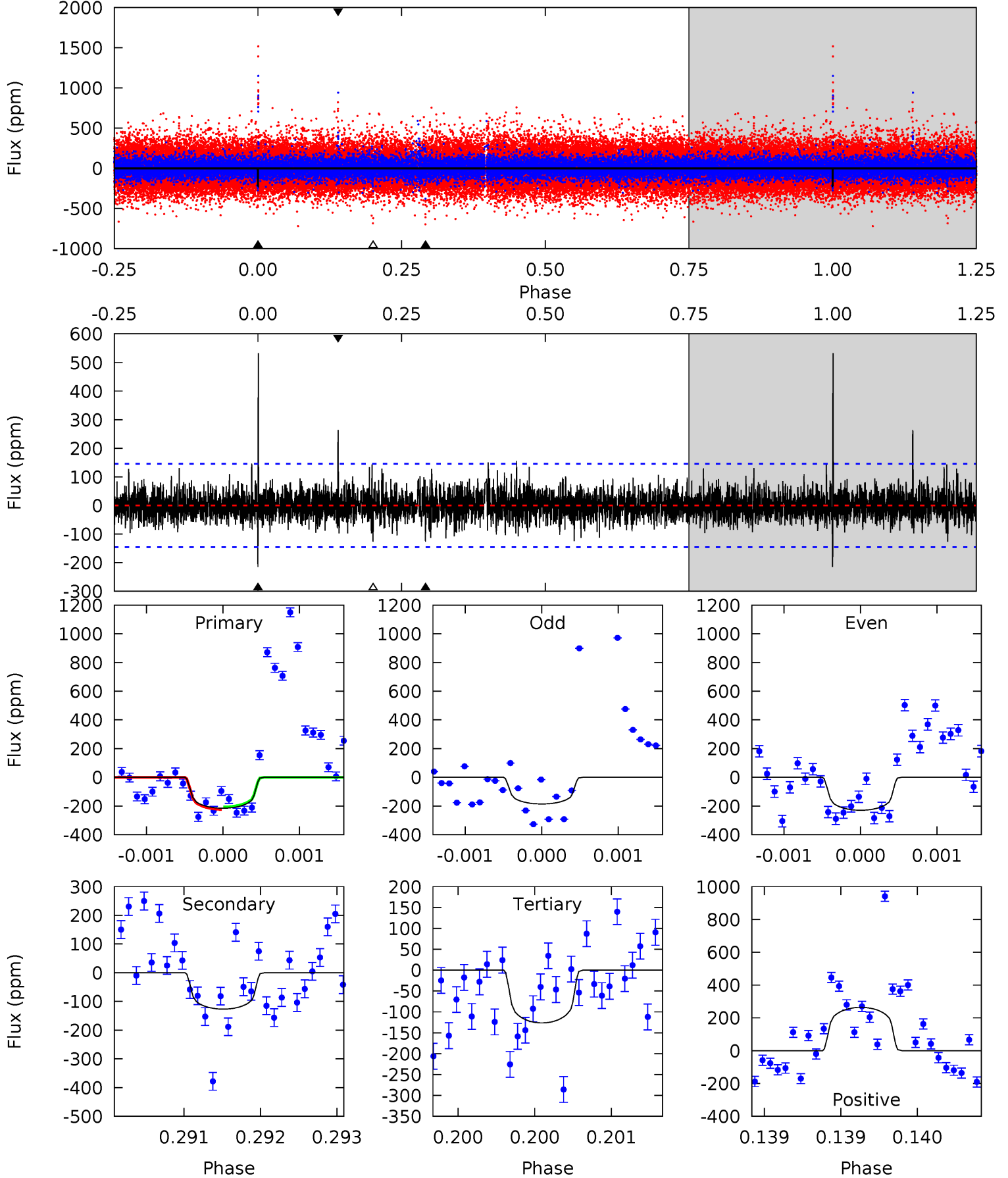
TCE 011141026-01 P=360.958837 Days $T_0=299.591838$ (BKJD)



DV Model-Shift Uniqueness Test

011141026-01, P = 360.962943 Days, E = 299.577831 Days

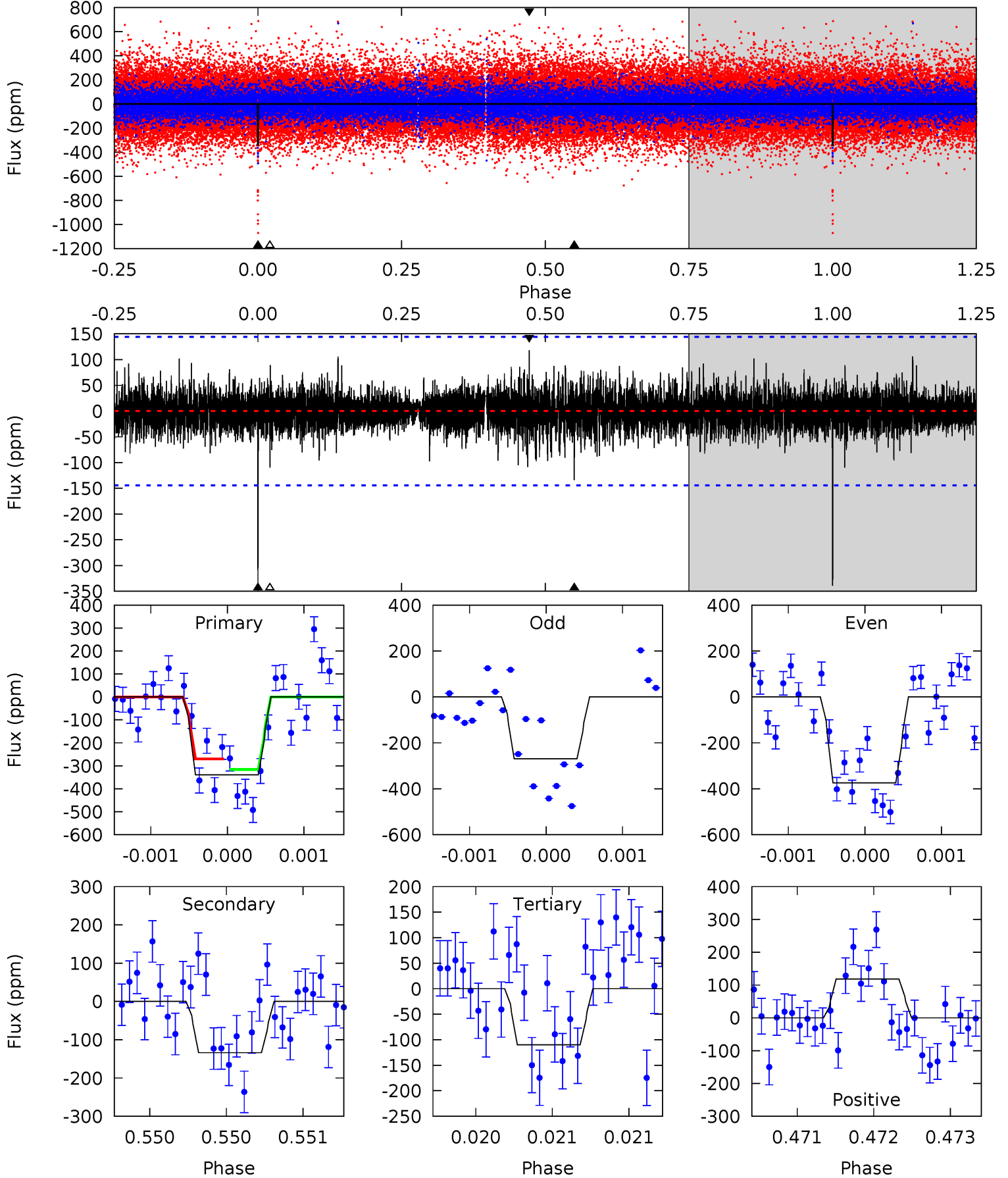
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.15	4.79	4.78	9.98	5.51	3.39	1.36	3.37	-1.84	0.01	-5.19	0.78	1.16	0.71	0.31



Alt Model-Shift Uniqueness Test

011141026-01, P = 360.958837 Days, E = 299.591838 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	5.14	4.21	4.53	5.53	3.42	1.00	8.81	8.49	0.93	0.60	1.88	1.26	0.26	0.85



Stellar Parameters For KIC 011141026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5497^{+166}_{-149}	$4.577^{+0.034}_{-0.144}$	$-0.100^{+0.300}_{-0.300}$	$0.809^{+0.164}_{-0.070}$	$0.907^{+0.074}_{-0.102}$	$2.412^{+0.438}_{-0.949}$
	+3%/-3%	+1%/-3%	+300%/-300%	+20%/-9%	+8%/-11%	+18%/-39%
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 011141026-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-127 ± 26	$1.86^{+1.25}_{-1.02}$	319^{+15}_{-13}	4305^{+1681}_{-692}	17377^{+68326}_{-10738}
Alt.	-134 ± 26	$1.89^{+1.14}_{-1.08}$	318^{+16}_{-12}	4309^{+1892}_{-676}	18729^{+76087}_{-11871}

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

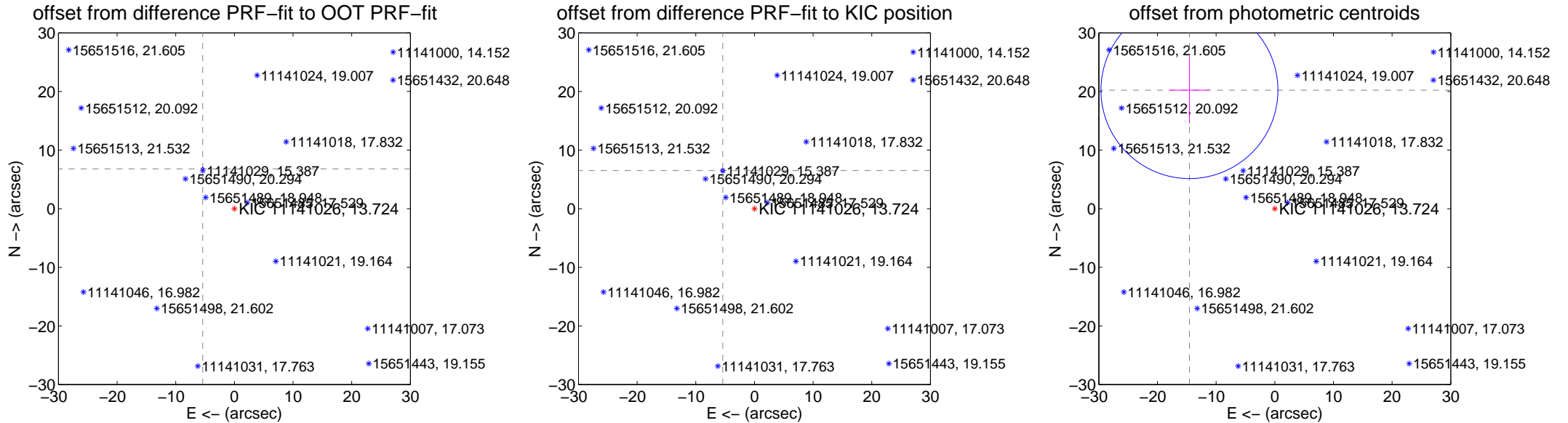
DV Centroid Data

Supplemental centroid analysis for 011141026-01. Kepler magnitude: 13.72. Transit SNR 8.19

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.676 \pm 0.077	112.47	5.404 \pm 0.075	6.787 \pm 0.079
PRF-fit source offset from KIC position	8.456 \pm 0.085	99.21	5.403 \pm 0.069	6.504 \pm 0.095
photometric centroid source offset	24.91 \pm 5.03	4.96	14.55 \pm 3.38	20.23 \pm 5.70



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.

Q1 no difference image



Q1 no OOT image



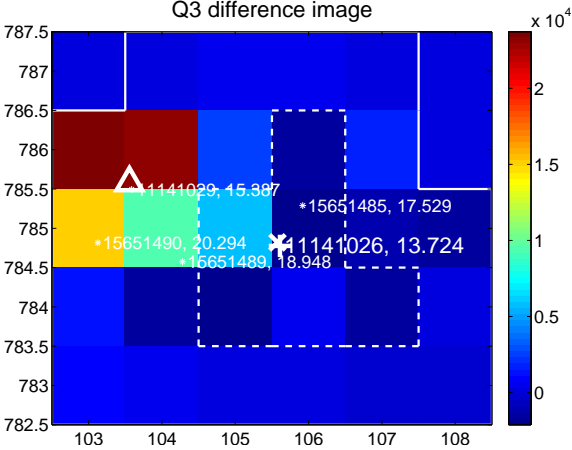
Q2 no difference image



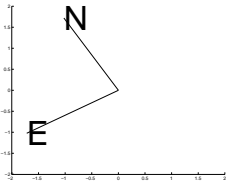
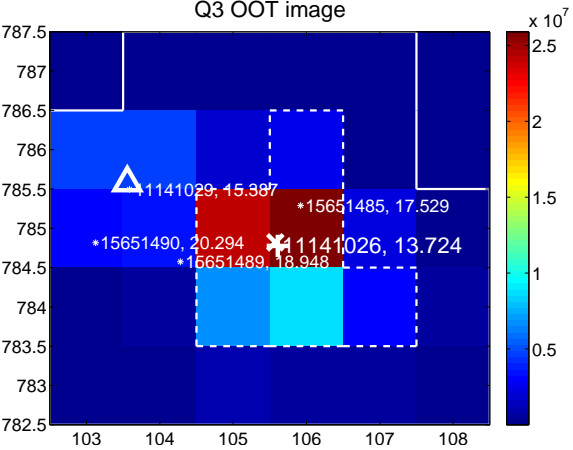
Q2 no OOT image



Q3 difference image



Q3 OOT image



Q4 no difference image



Q4 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.



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

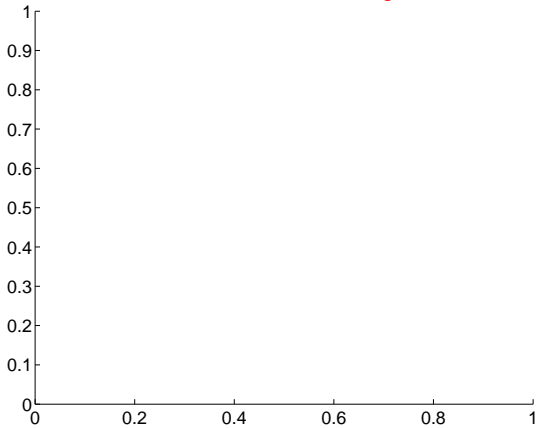
Q13 no difference image



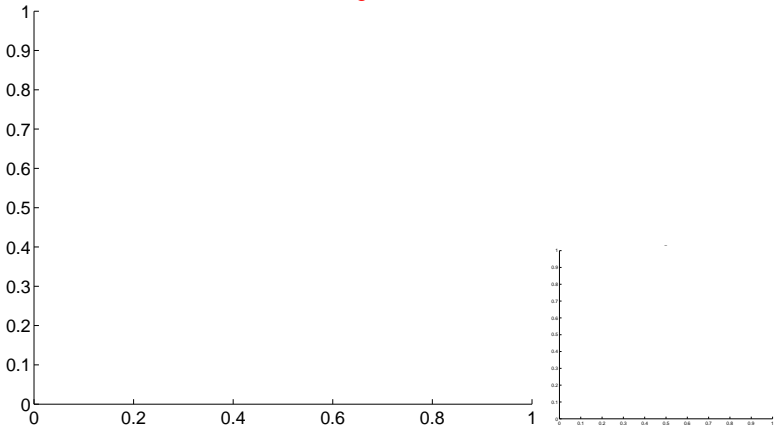
Q13 no OOT image



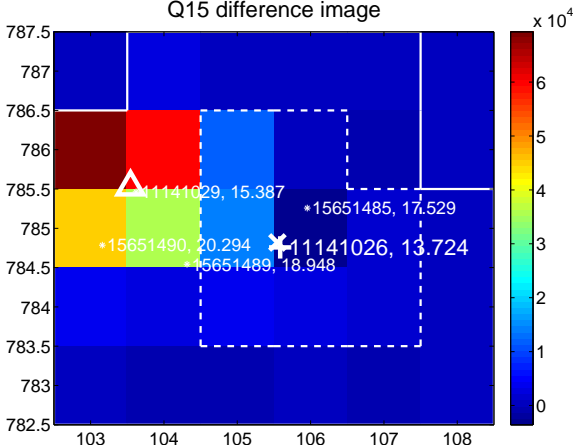
Q14 no difference image



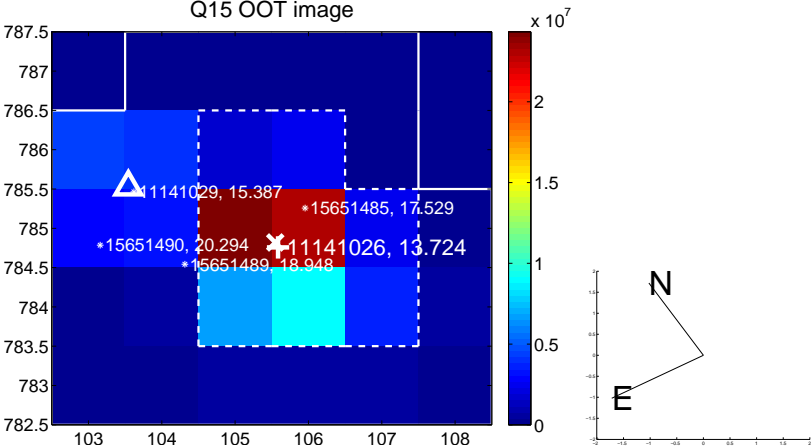
Q14 no OOT image



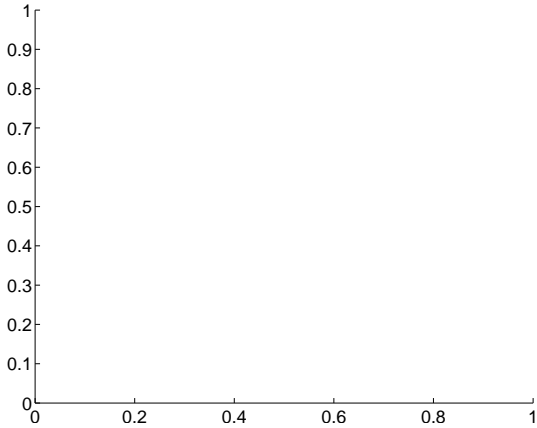
Q15 difference image



Q15 OOT image



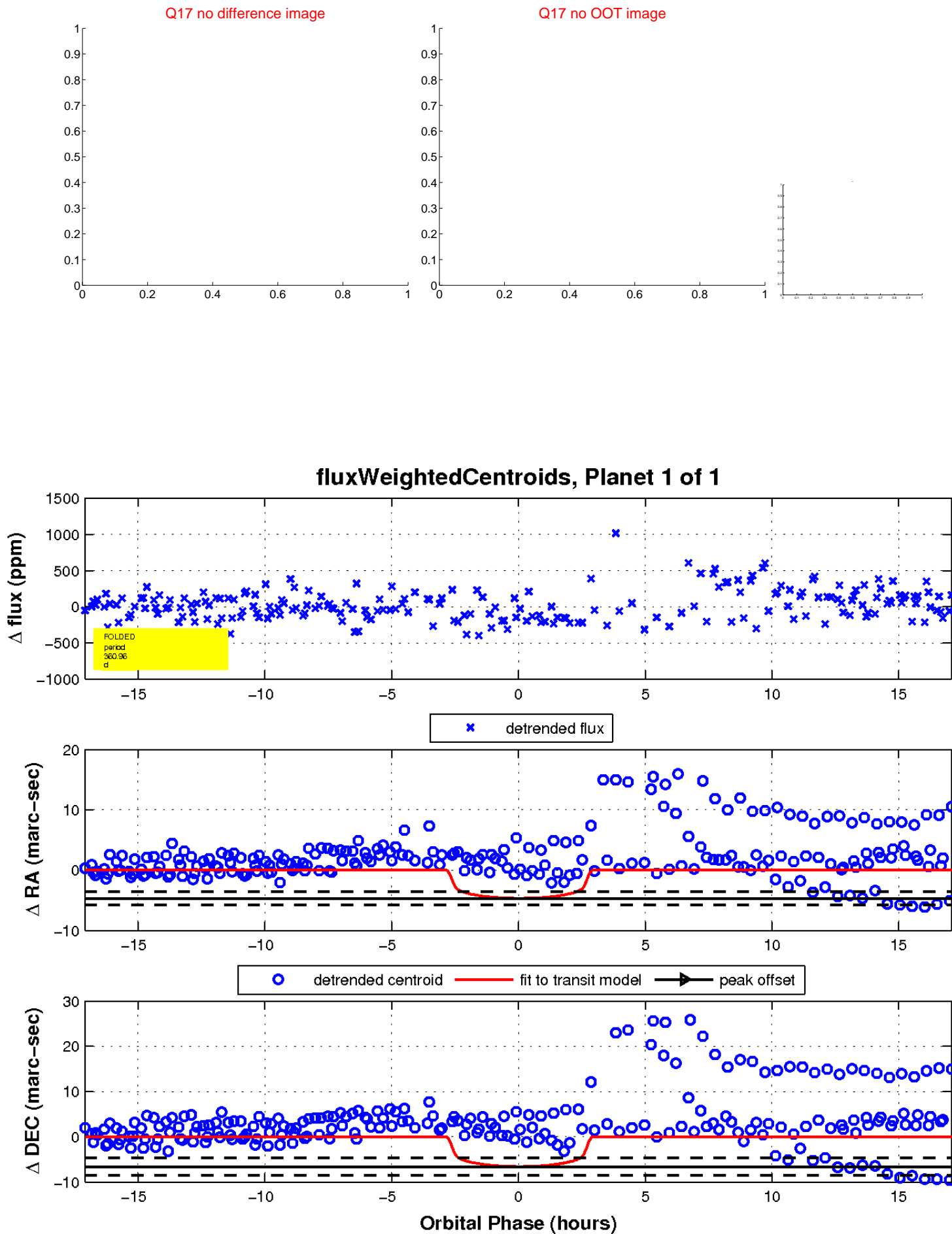
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

