

KIC 011961695

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})
011961695-01	OBS	No	353.313428	468.422602	62.6	123.053	319.9	2.5	0.99	6038	0.88	1.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011961695-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST

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

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

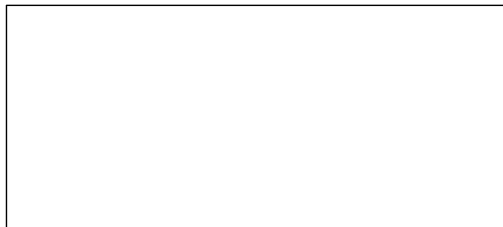
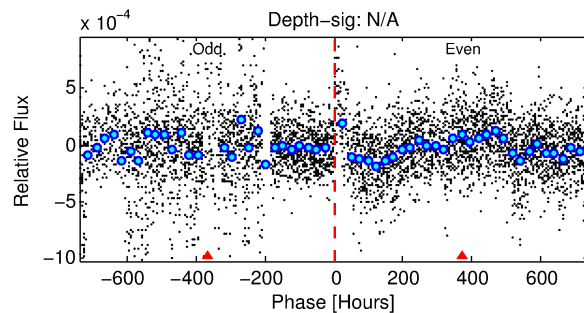
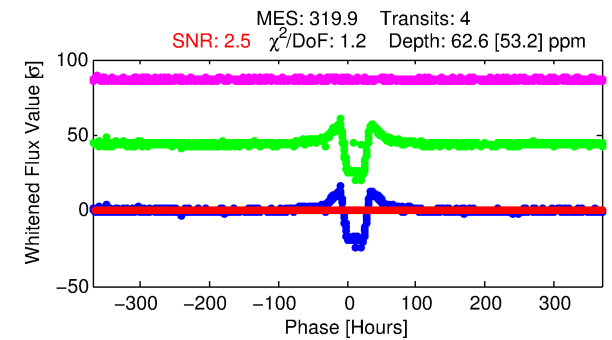
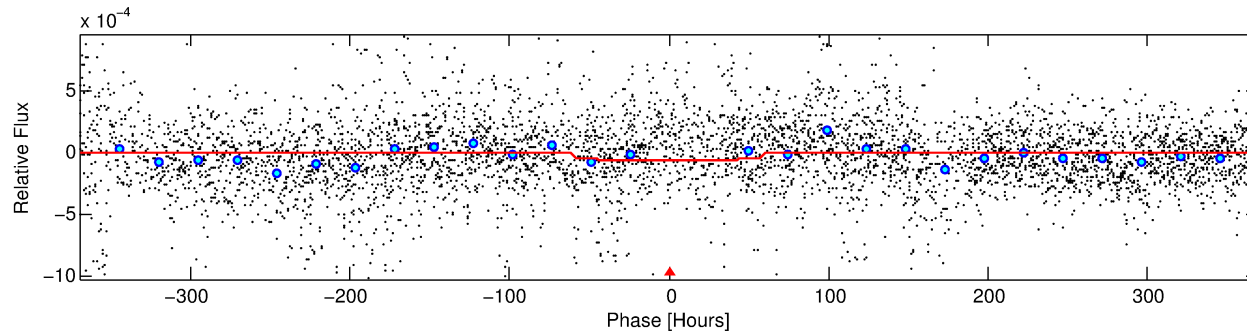
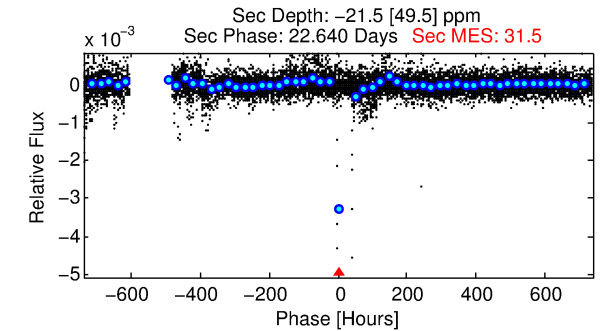
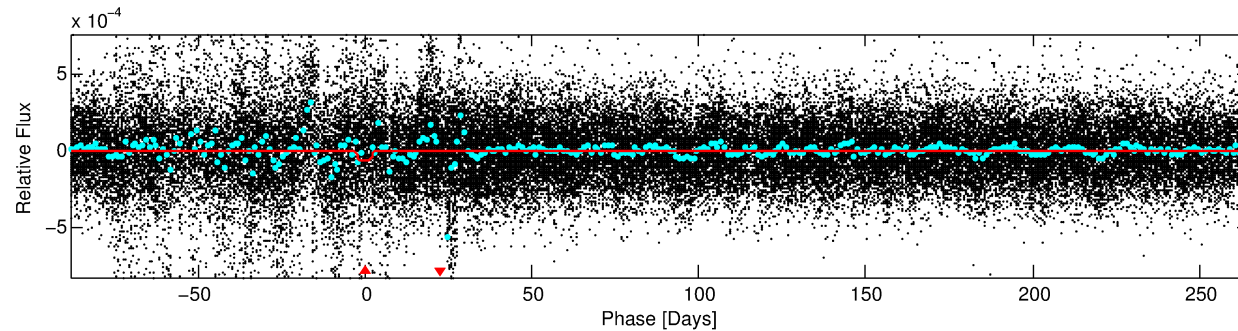
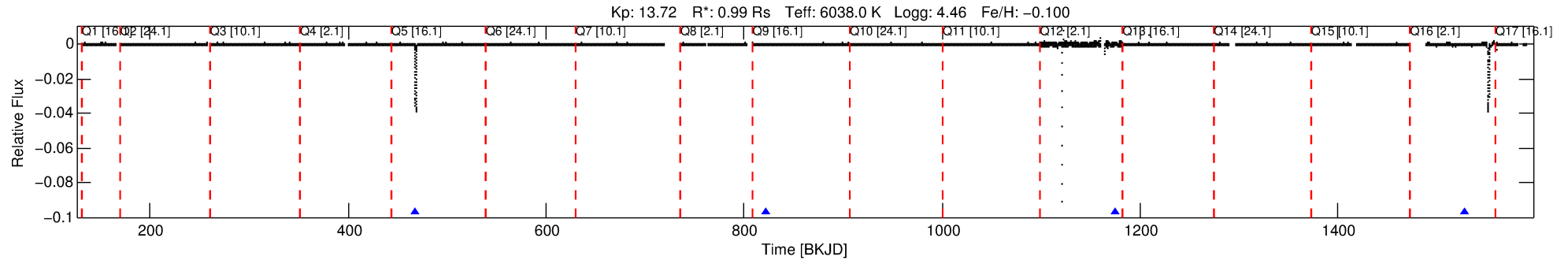
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011961695-01

No Significant Match Found

DV One-Page Summary

KIC: 11961695 Candidate: 1 of 1 Period: 353.313 d



DV Fit Results:

Period = 353.31343 [0.39288] d
Epoch = 468.4226 [0.4503] BKJD
Rp/R* = 0.0082 [0.0048]
a/R* = 12.39 [24.25]
b = 0.84 [0.72]
Seff = 1.21 [0.49]
Teq = 267 [27] K
Rp = 0.88 [0.59] Re
a = 0.9859 [0.2623] AU
Ag = N/A
Teffp = N/A

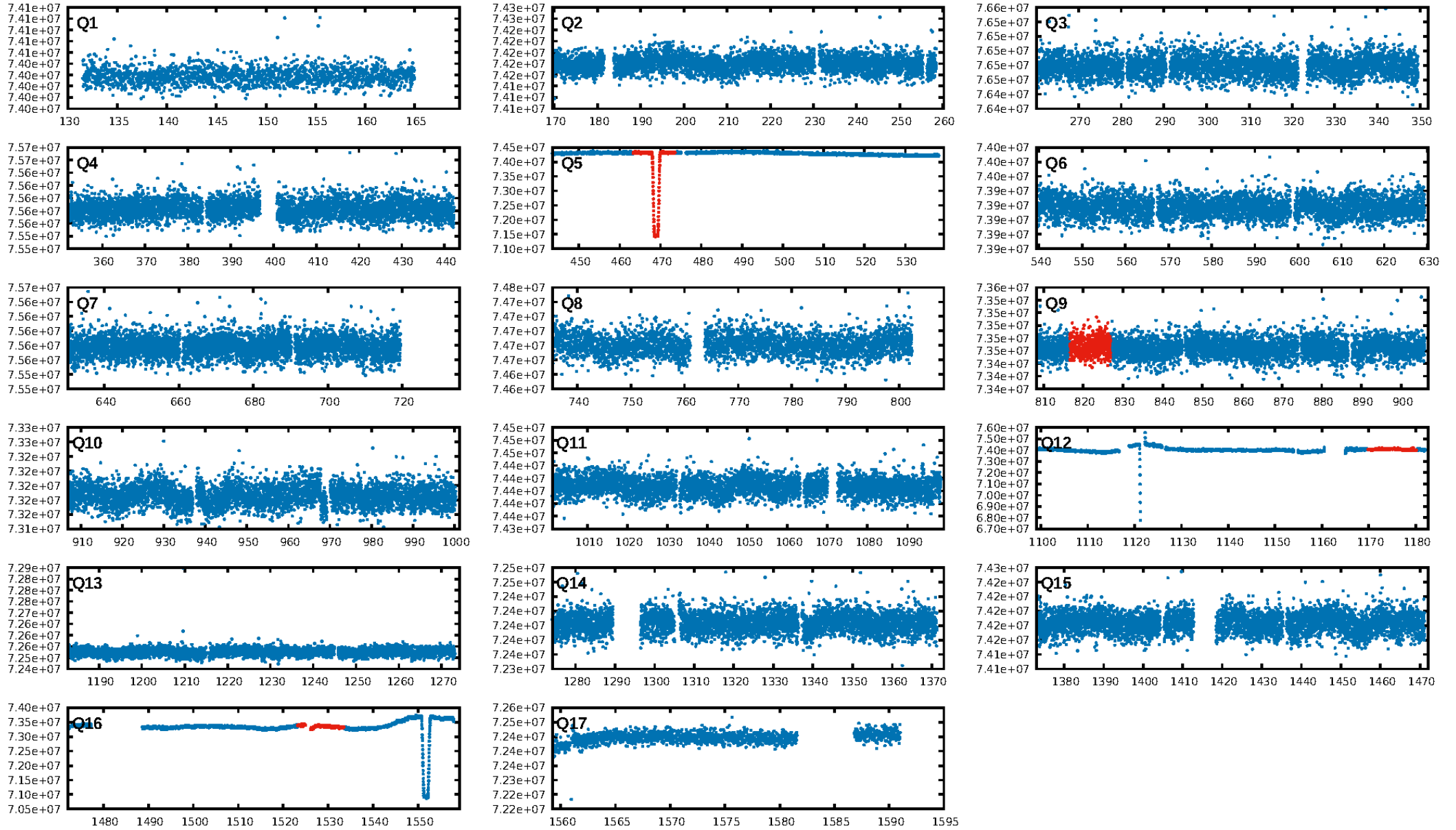
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 49.3%
ModelChiSquareGoF-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.07054
Centroid-sig: 24.3%
Centroid-so: 2.229 arcsec [1.27σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [1/1]

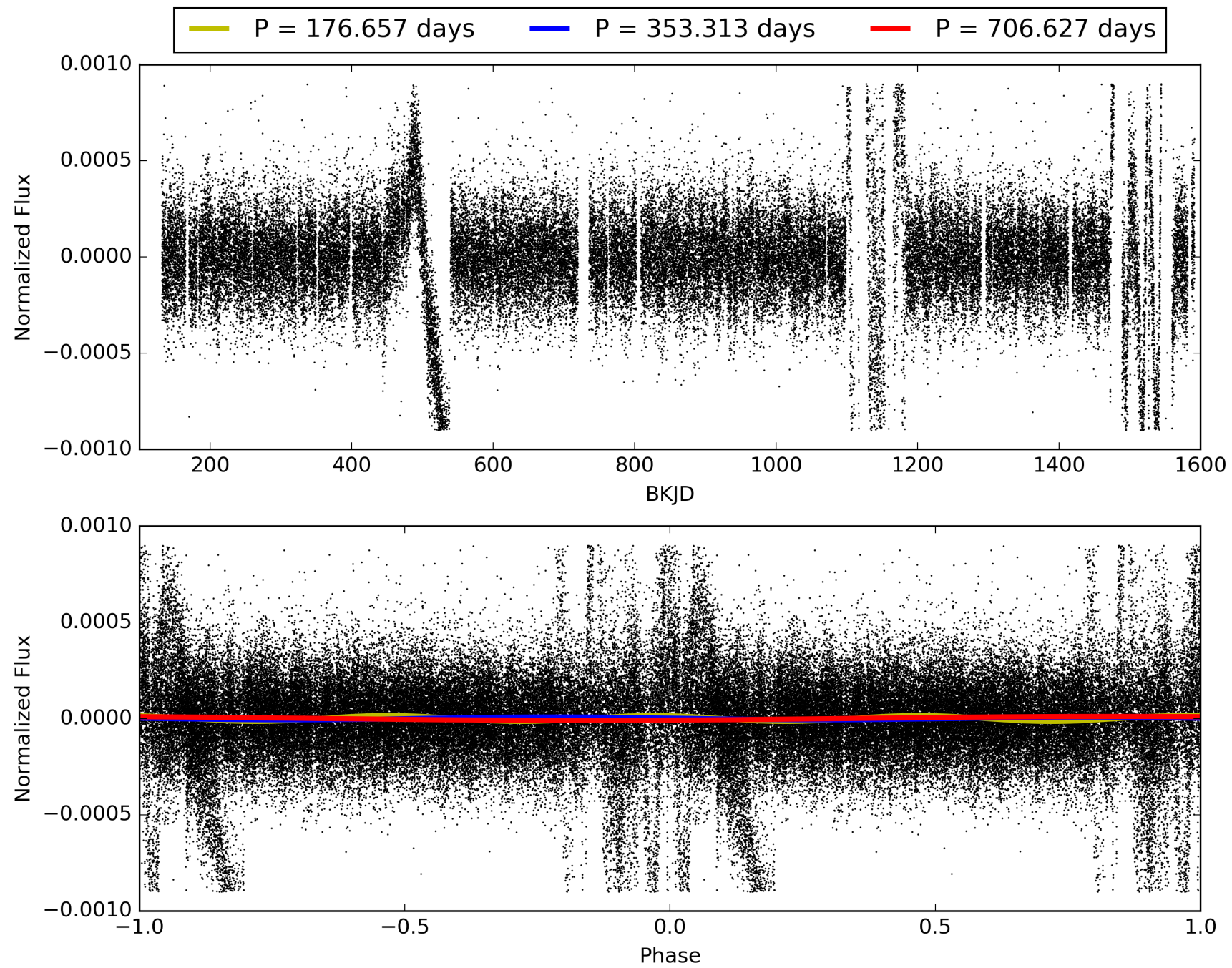
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 01:43:14 Z

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

TCE 011961695-01, PDC Light Curves

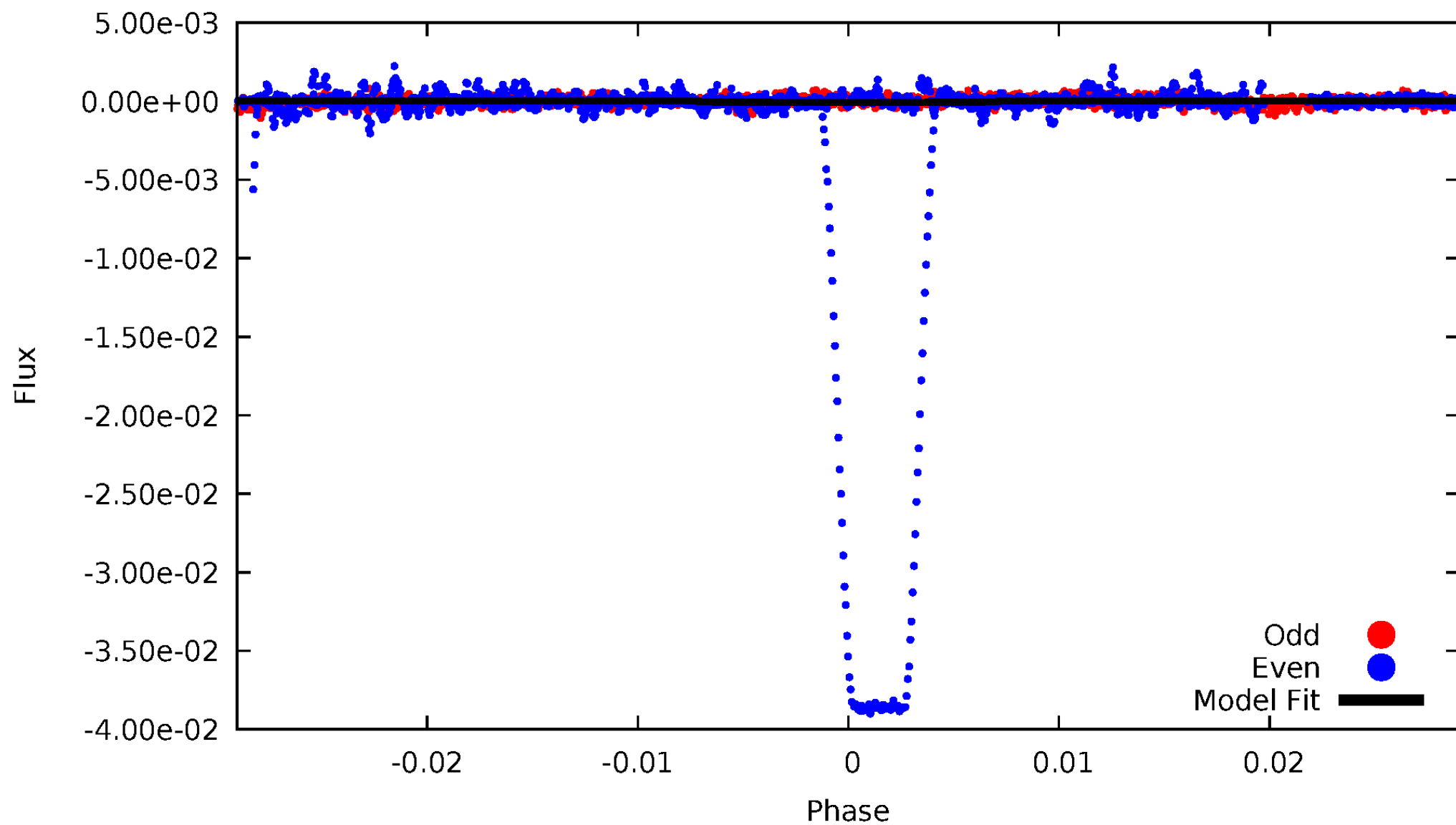


TCE 011961695-01



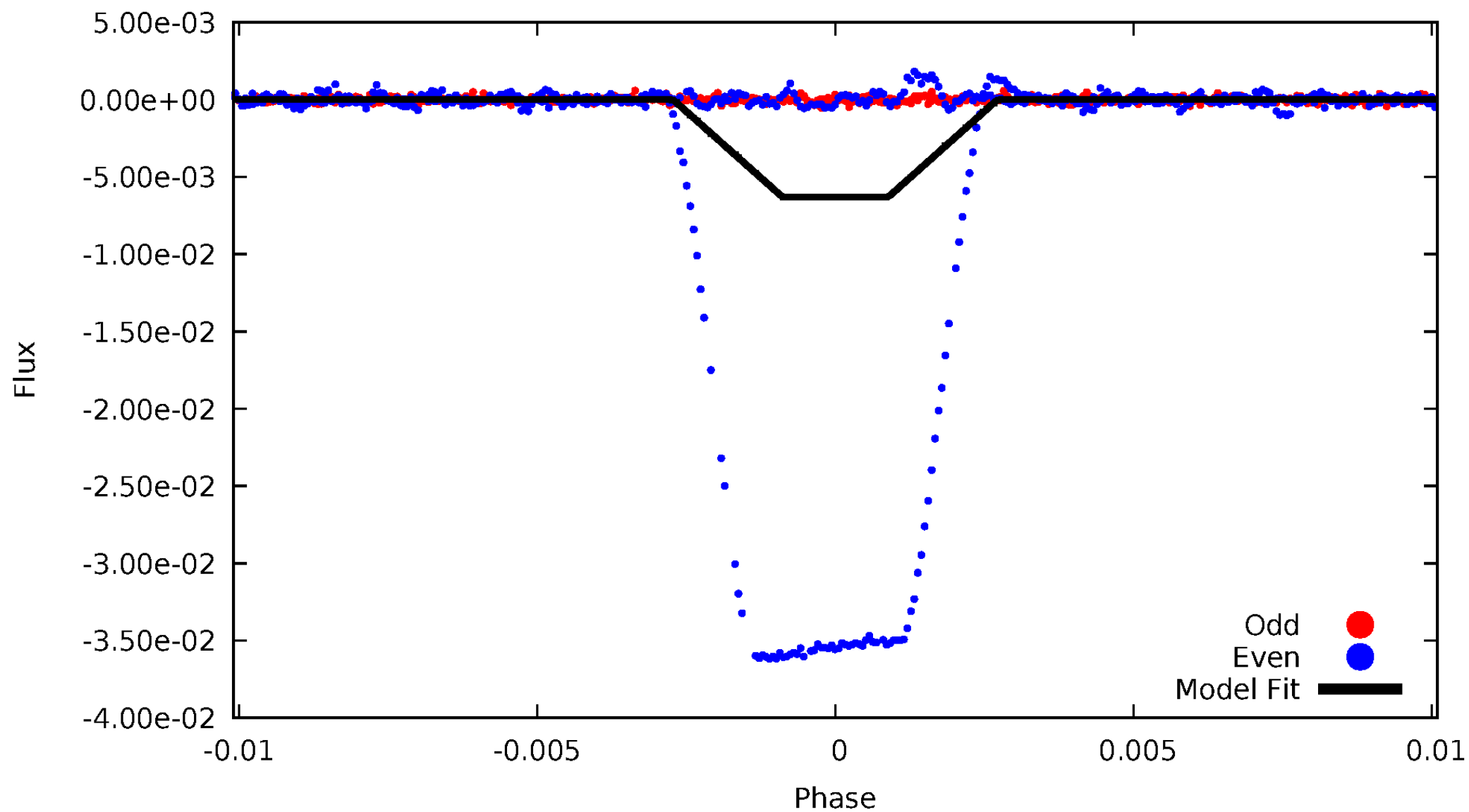
DV Odd/Even

TCE 011961695-01



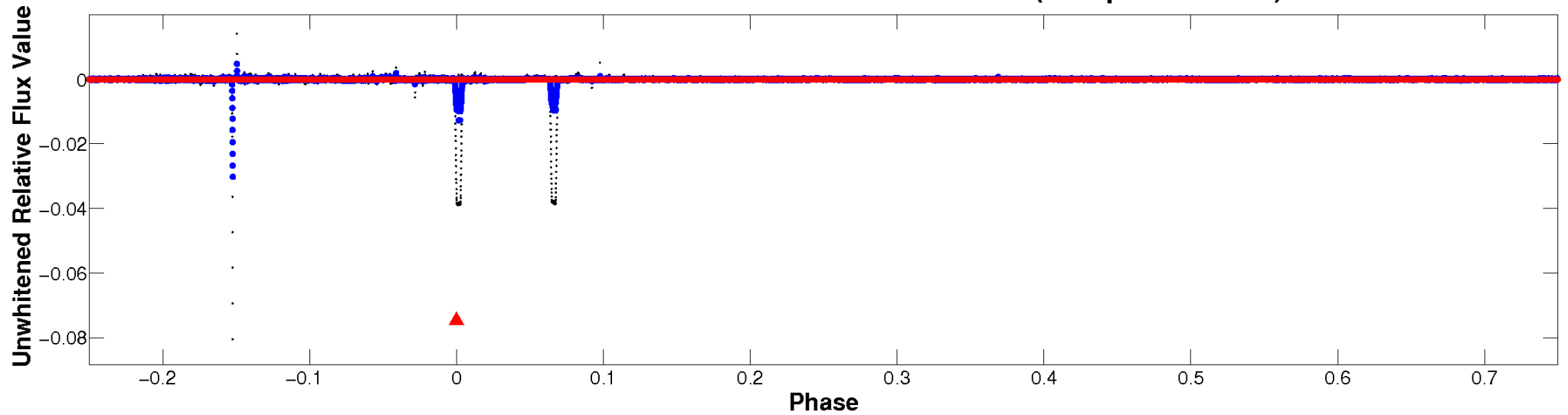
ALT Odd/Even

TCE 011961695-01

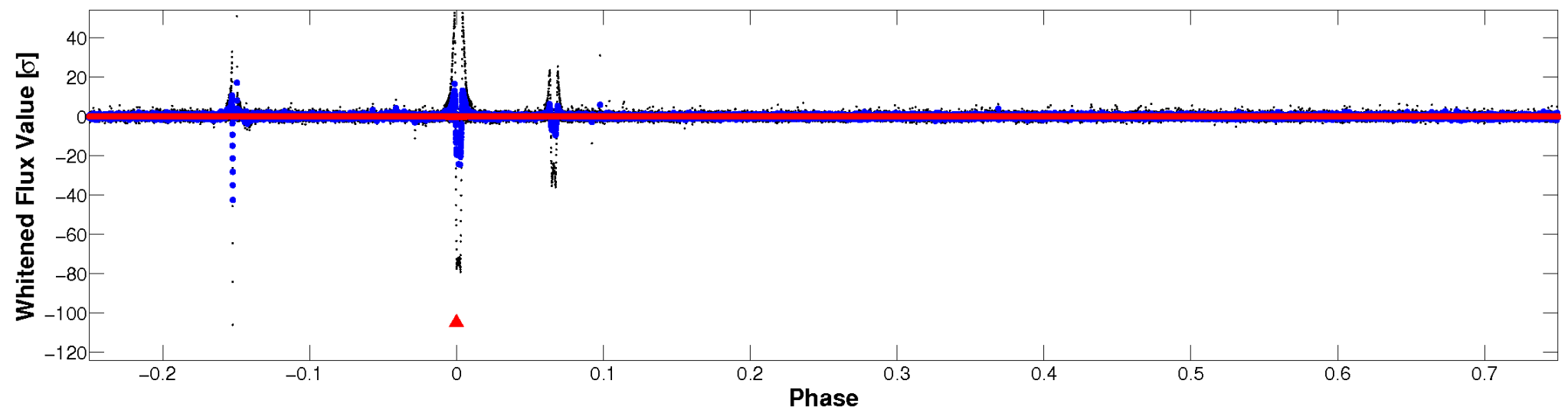


Non-Whitened Vs. Whitened Light Curve

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

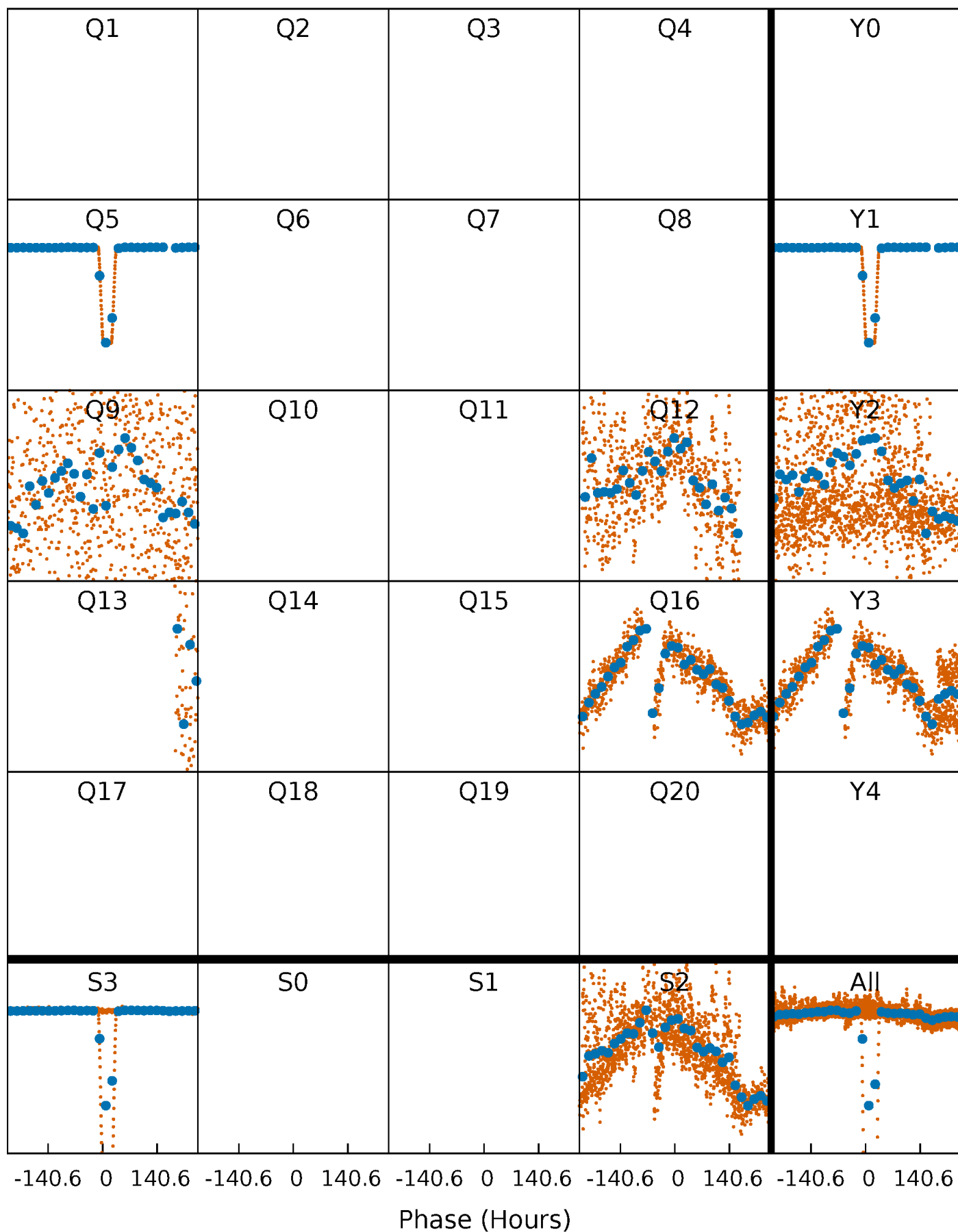


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



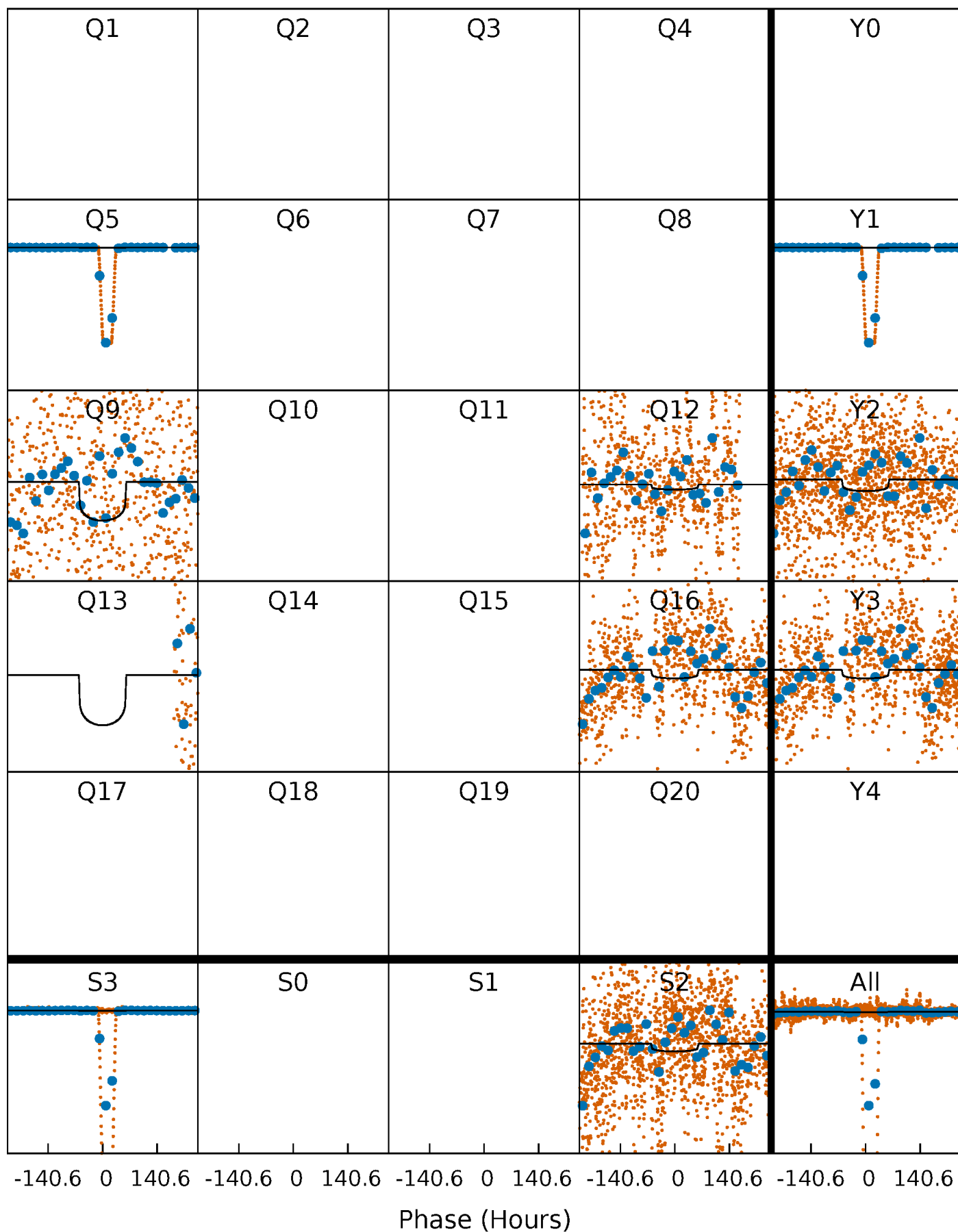
PDC Quarter-Phased Transit Curves

TCE 011961695-01 P=353.313428 Days $T_0=468.422602$ (BKJD)



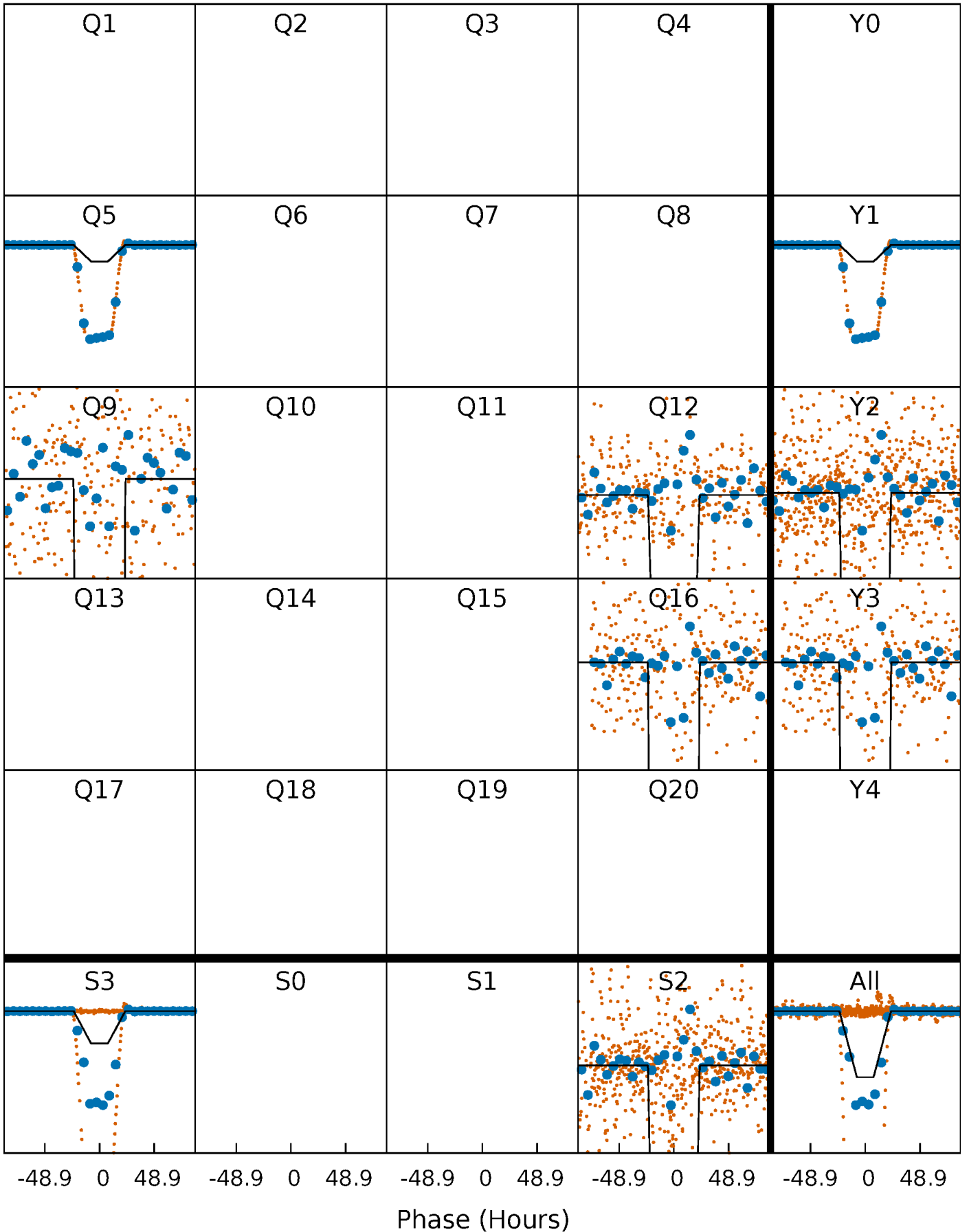
DV Quarter-Phased Transit Curves

TCE 011961695-01 $P=353.313428$ Days $T_0=468.422602$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

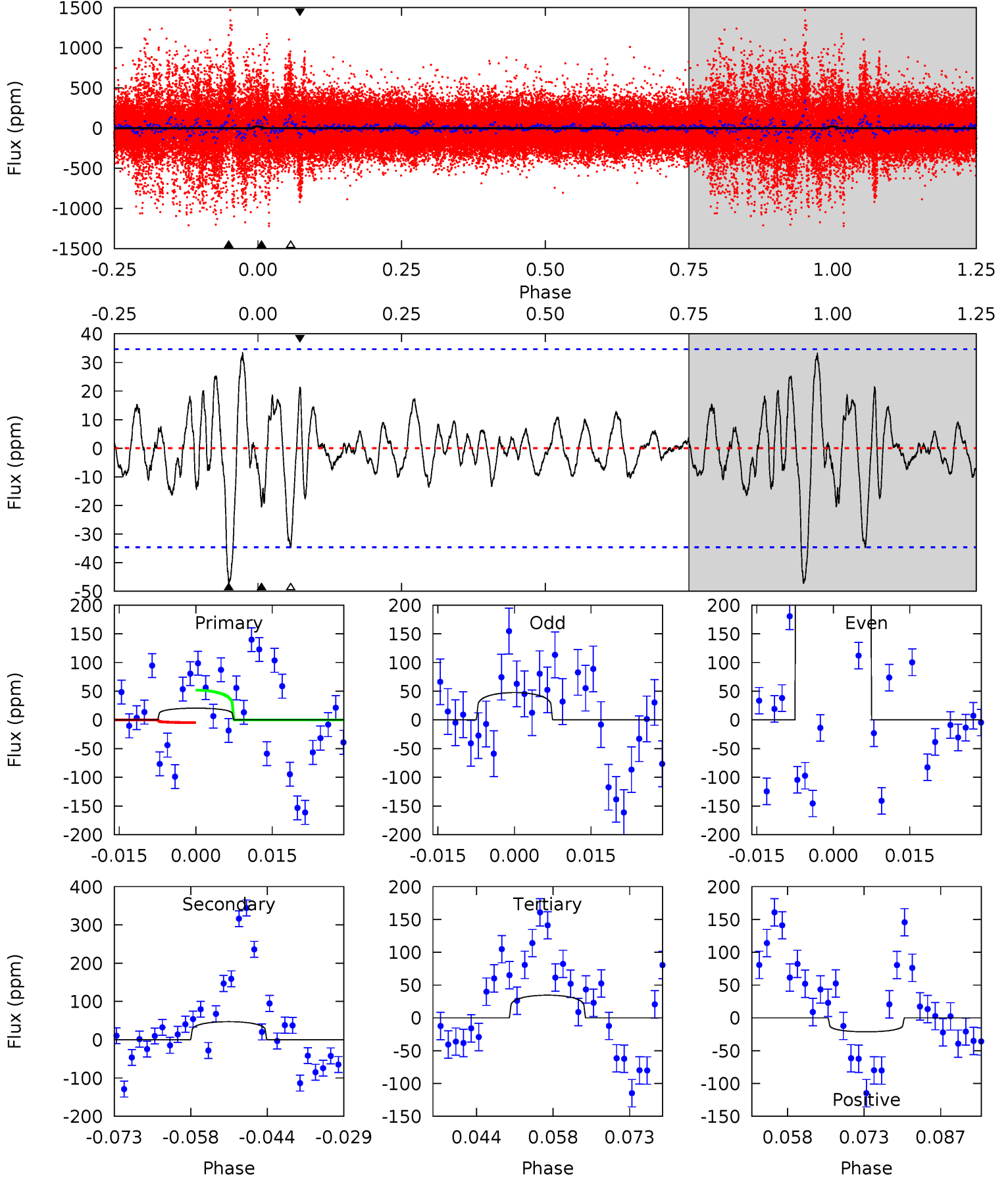
TCE 011961695-01 P=353.418854 Days $T_0=468.973916$ (BKJD)



DV Model-Shift Uniqueness Test

011961695-01, P = 353.313428 Days, E = 115.109174 Days

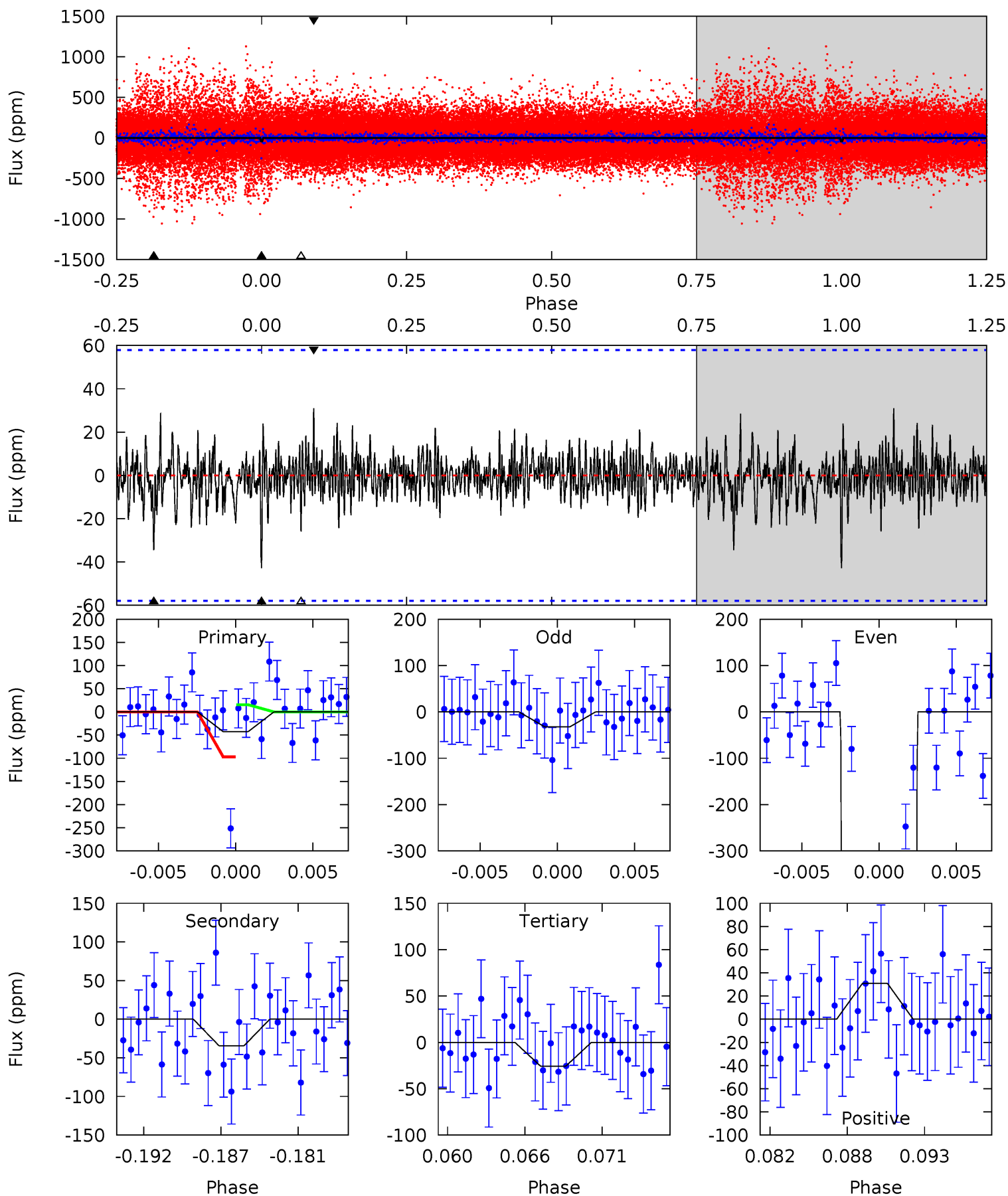
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.93	6.76	4.95	3.05	4.95	2.44	1.27	-2.02	-0.12	1.81	3.71	83.5	754.5	0.41	0



Alt Model-Shift Uniqueness Test

011961695-01, P = 353.418854 Days, E = 115.555062 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.80	3.06	2.29	2.75	5.14	2.78	0.69	1.50	1.05	0.77	0.31	686.6	256.5	0.42	3.61



Stellar Parameters For KIC 011961695

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6038^{+162}_{-180}	$4.455^{+0.056}_{-0.210}$	$-0.100^{+0.300}_{-0.300}$	$0.992^{+0.315}_{-0.105}$	$1.020^{+0.139}_{-0.126}$	$1.470^{+0.427}_{-0.788}$
	+3%/-3%	+1%/-5%	+300%/-300%	+32%/-11%	+14%/-12%	+29%/-54%
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 011961695-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-47 ± 7	$0.95^{+0.54}_{-0.54}$	381^{+28}_{-18}	5504^{+3203}_{-938}	$28546^{+115742}_{-17407}$
Alt.	-35 ± 11	$8.98^{+1.58}_{-1.03}$	382^{+27}_{-18}	2498^{+102}_{-122}	218^{+101}_{-82}

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

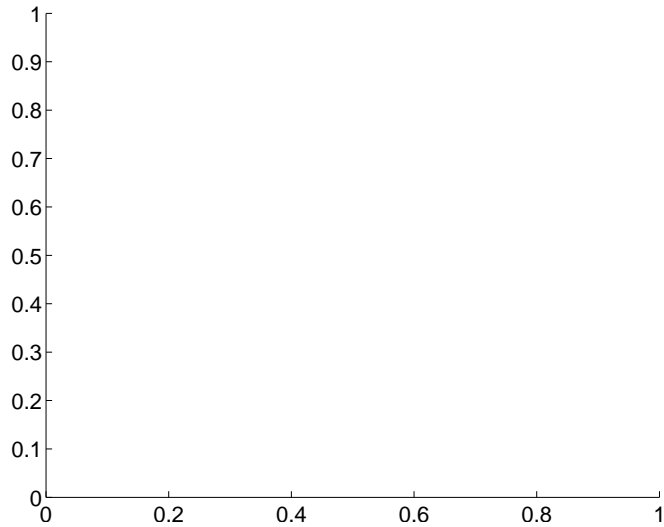
Supplemental centroid analysis for 011961695-01. Kepler magnitude: 13.72. Transit SNR 2.55

There are 0 quarters with good PRF difference image offsets

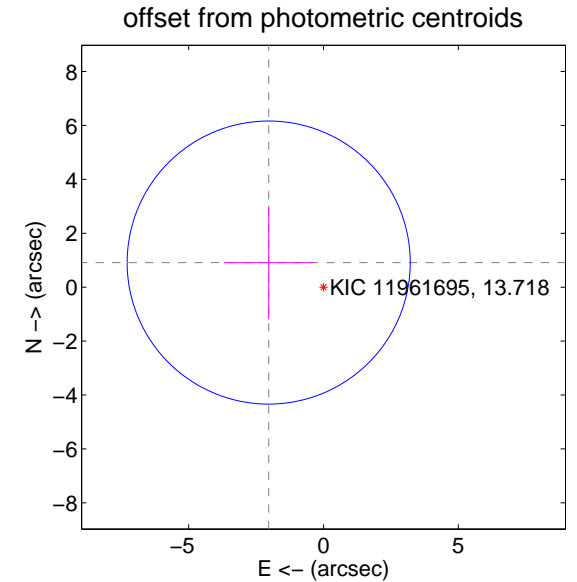
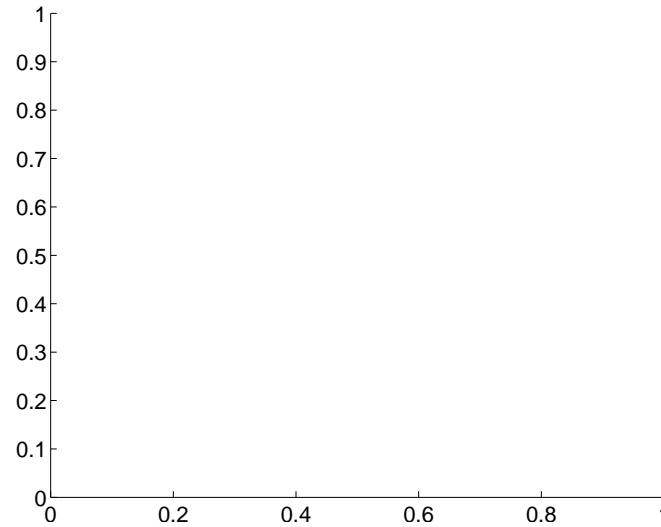
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	2.23 ± 1.75	1.27	2.03 ± 1.67	0.91 ± 2.10

There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC



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.

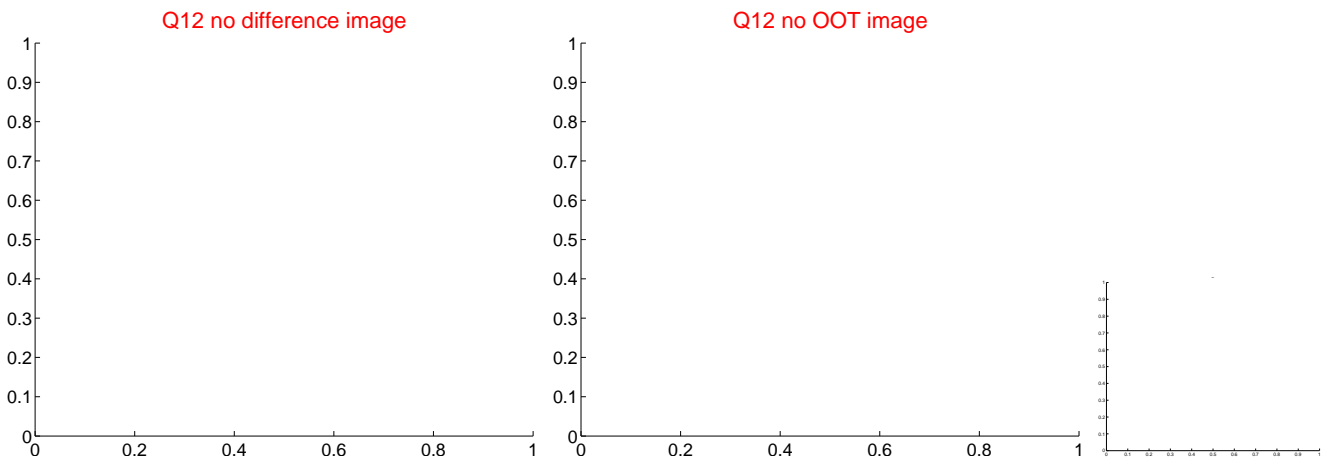
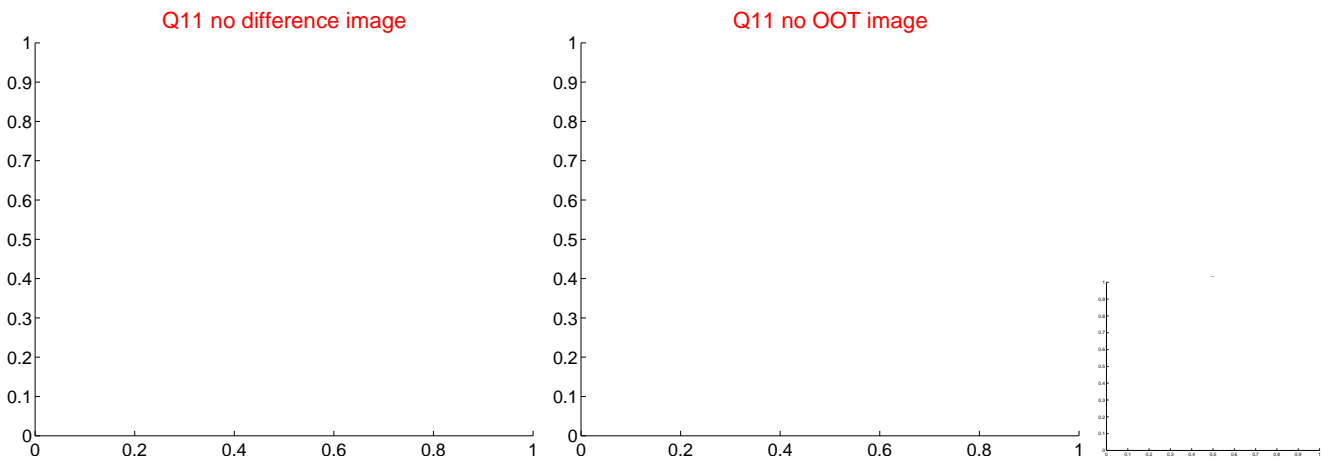
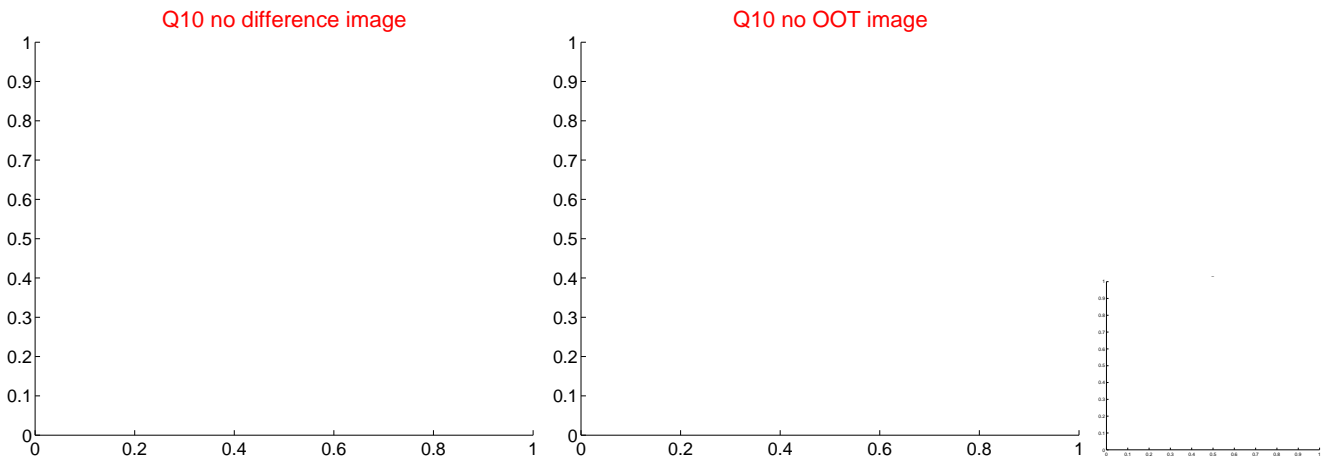
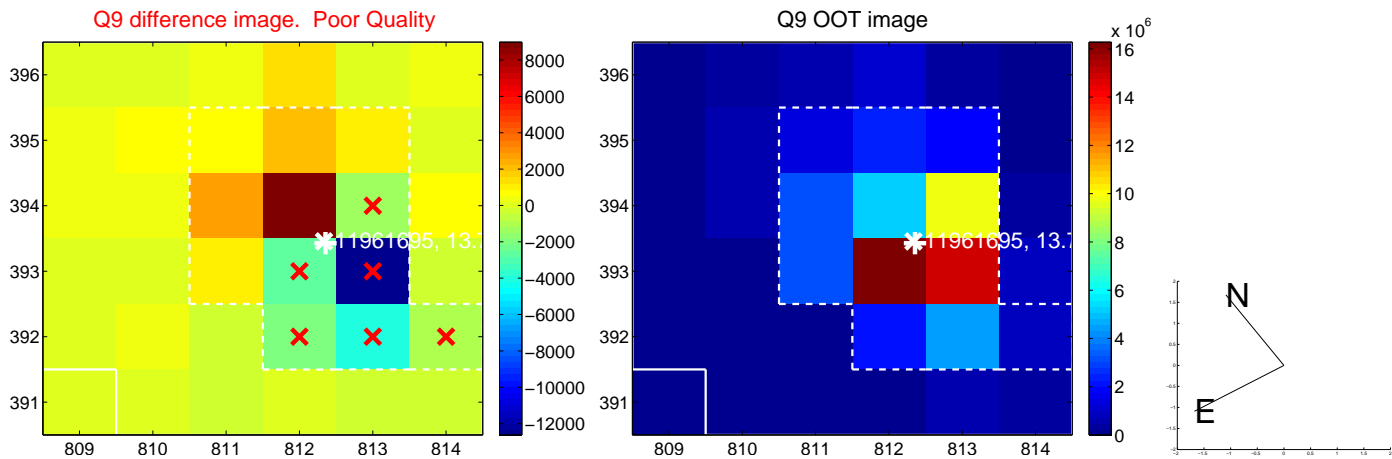
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



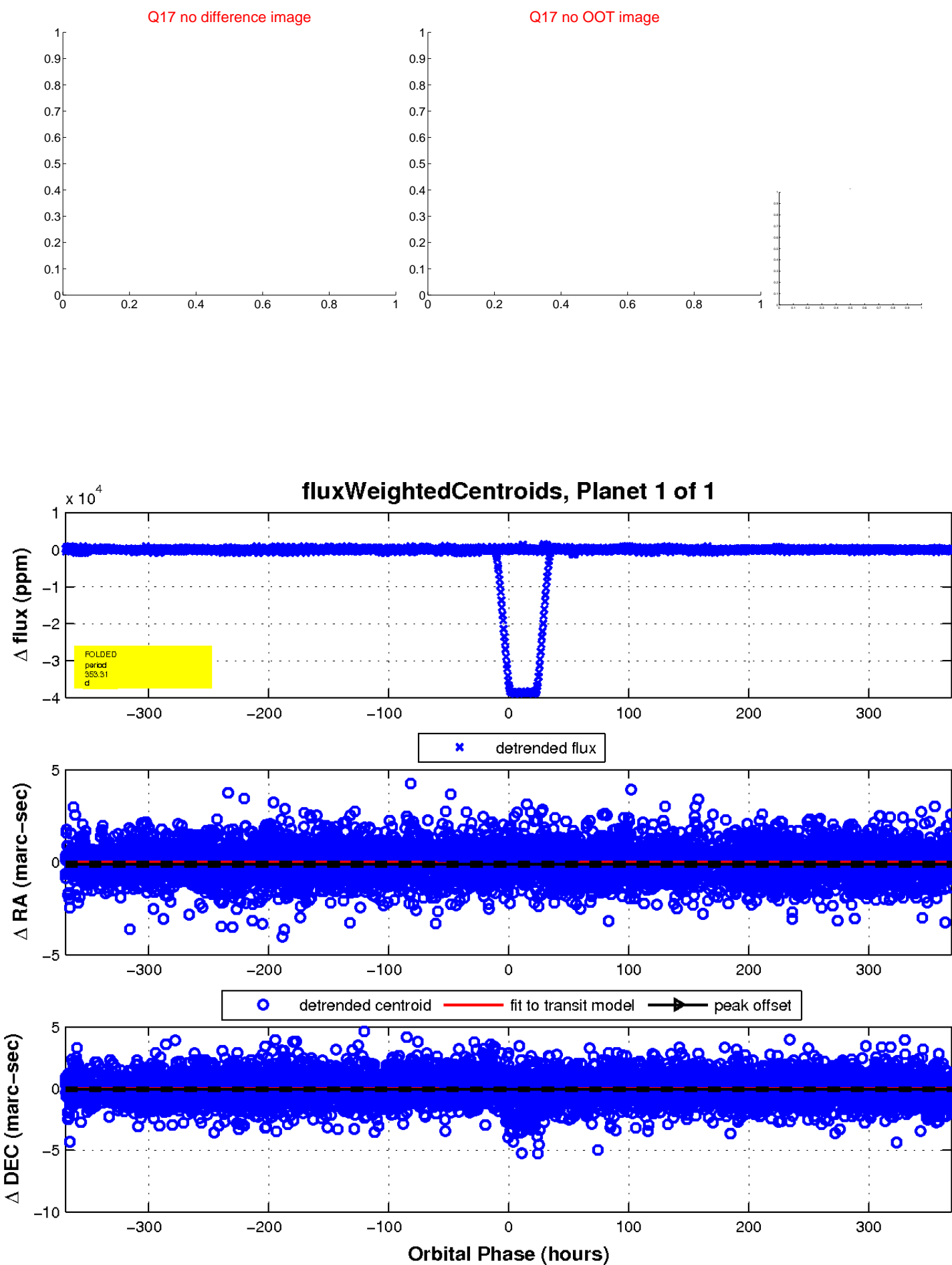
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

