

KIC 006119649

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})
006119649-01	OBS	No	365.776772	170.305743	201.9	21.059	8.6	5.5	0.95	6231	1.44	1.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006119649-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—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.

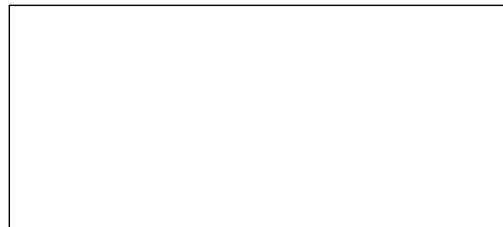
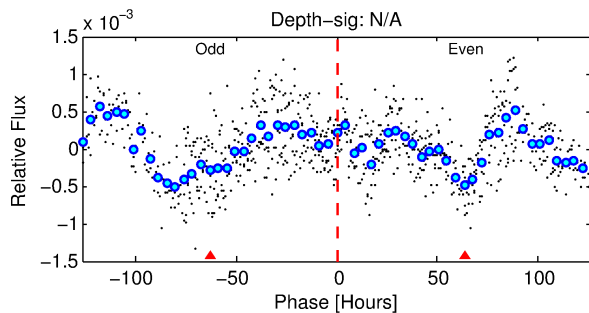
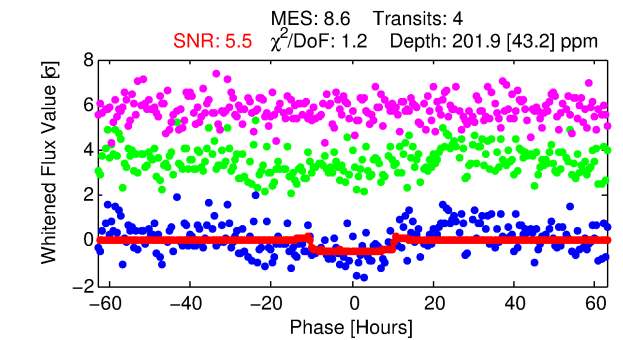
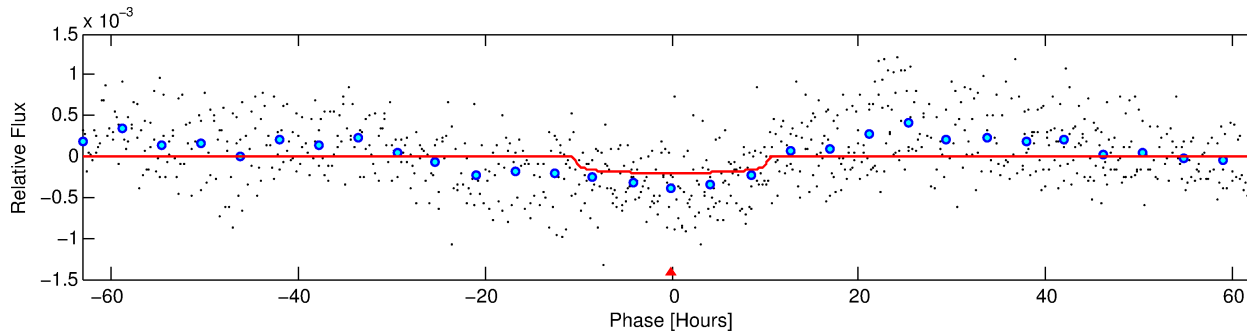
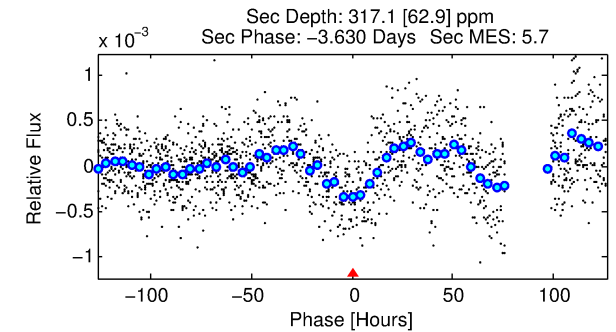
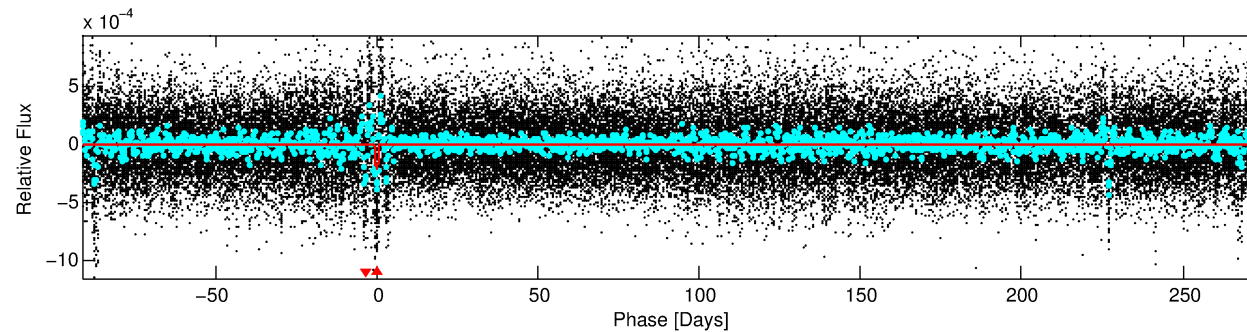
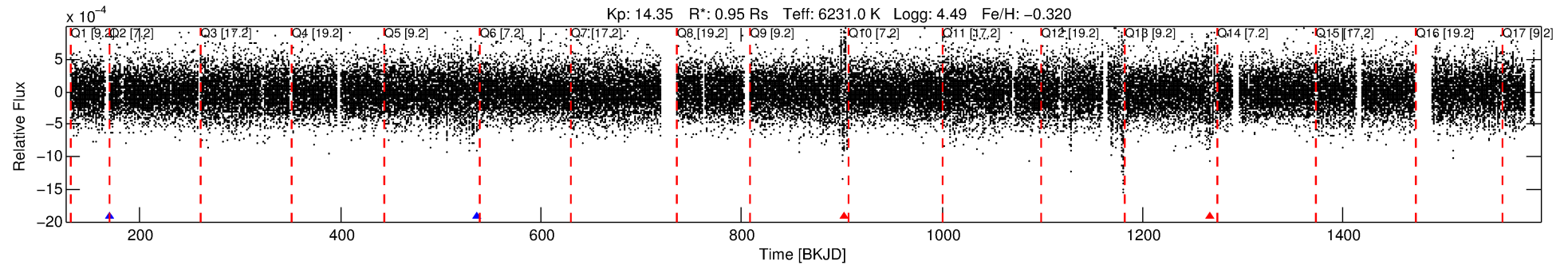
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006119649-01

No Significant Match Found

DV One-Page Summary

KIC: 6119649 Candidate: 1 of 1 Period: 365.777 d



DV Fit Results:

Period = 365.77677 [0.01958] d
Epoch = 170.3057 [0.0353] BKJD
Rp/R* = 0.0138 [0.0060]
a/R* = 102.37 [225.15]
b = 0.66 [1.91]
Seff = 1.21 [0.49]
Teq = 267 [27] K
Rp = 1.44 [0.76] Re
a = 1.0089 [0.2607] AU
Ag = 86078.92 [83677.84] [1.03σ]
Teffp = 7083 [1603] K [4.25σ]

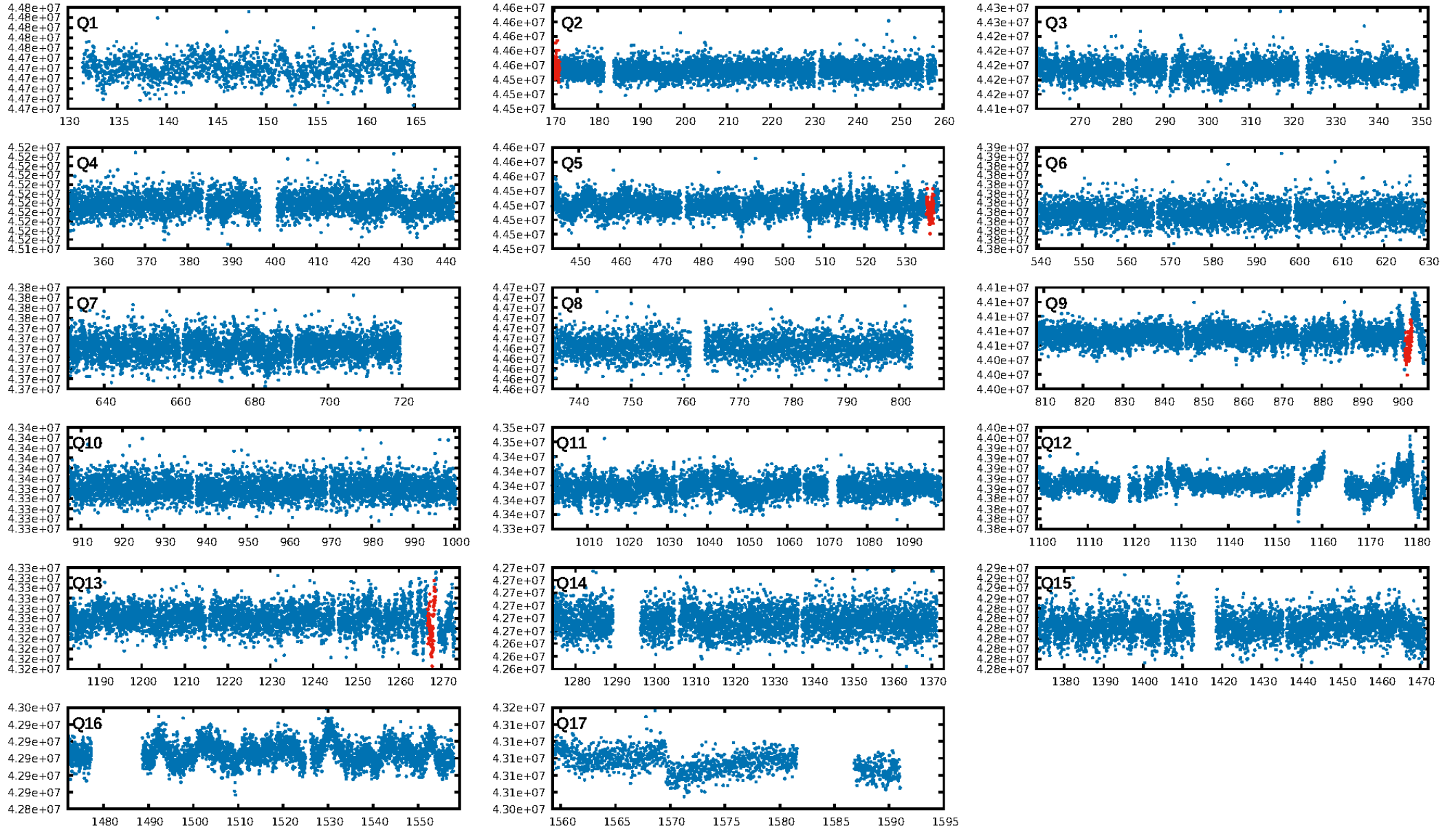
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 98.8%
Bootstrap-pfa: 9.15e-12
RollingBand-fgt: 0.50 [2/4]
GhostDiagnostic-chr: 3.404
Centroid-sig: 18.3%
Centroid-so: 2.793 arcsec [1.13σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [2/2]

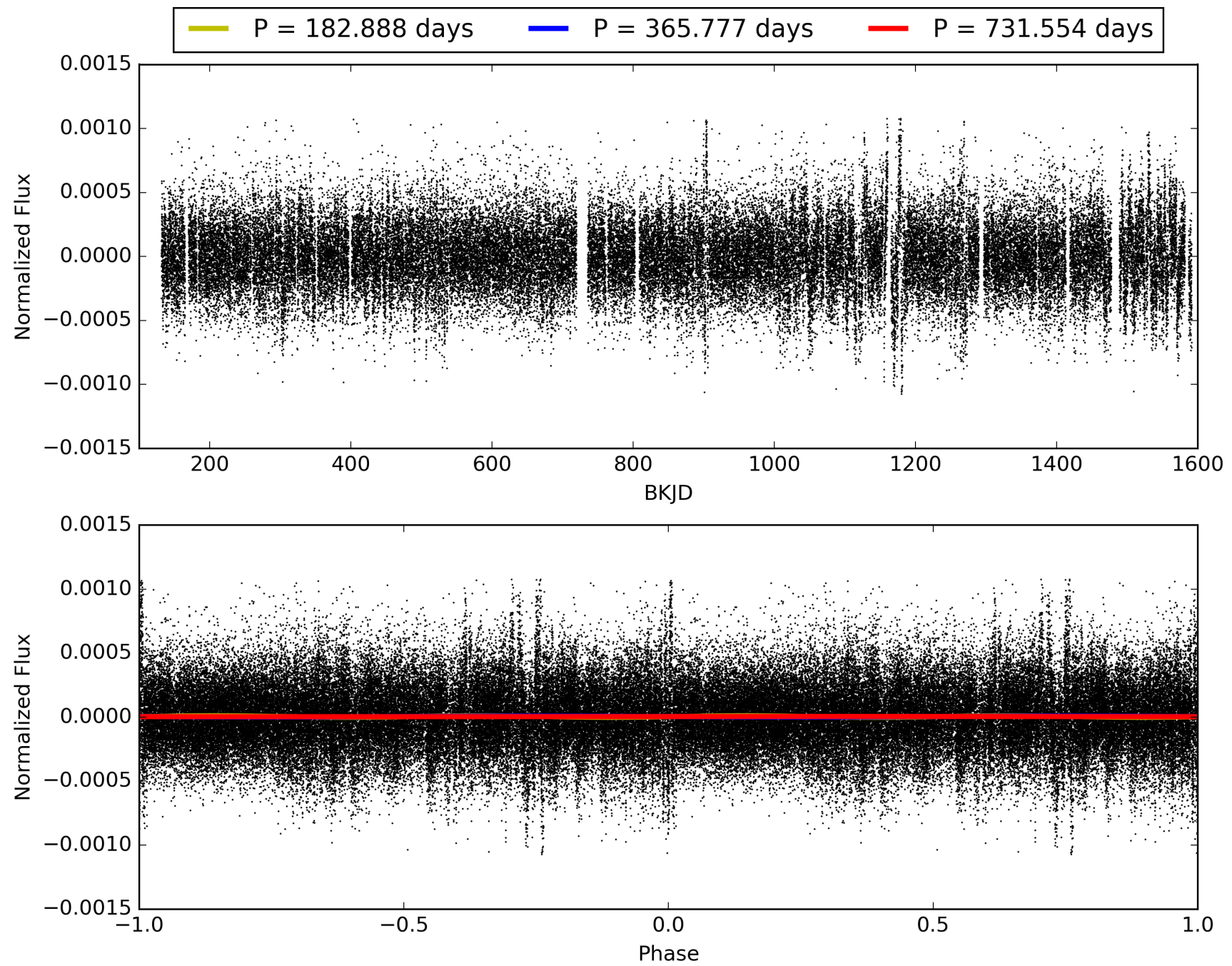
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 15:46:55 Z

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

TCE 006119649-01, PDC Light Curves

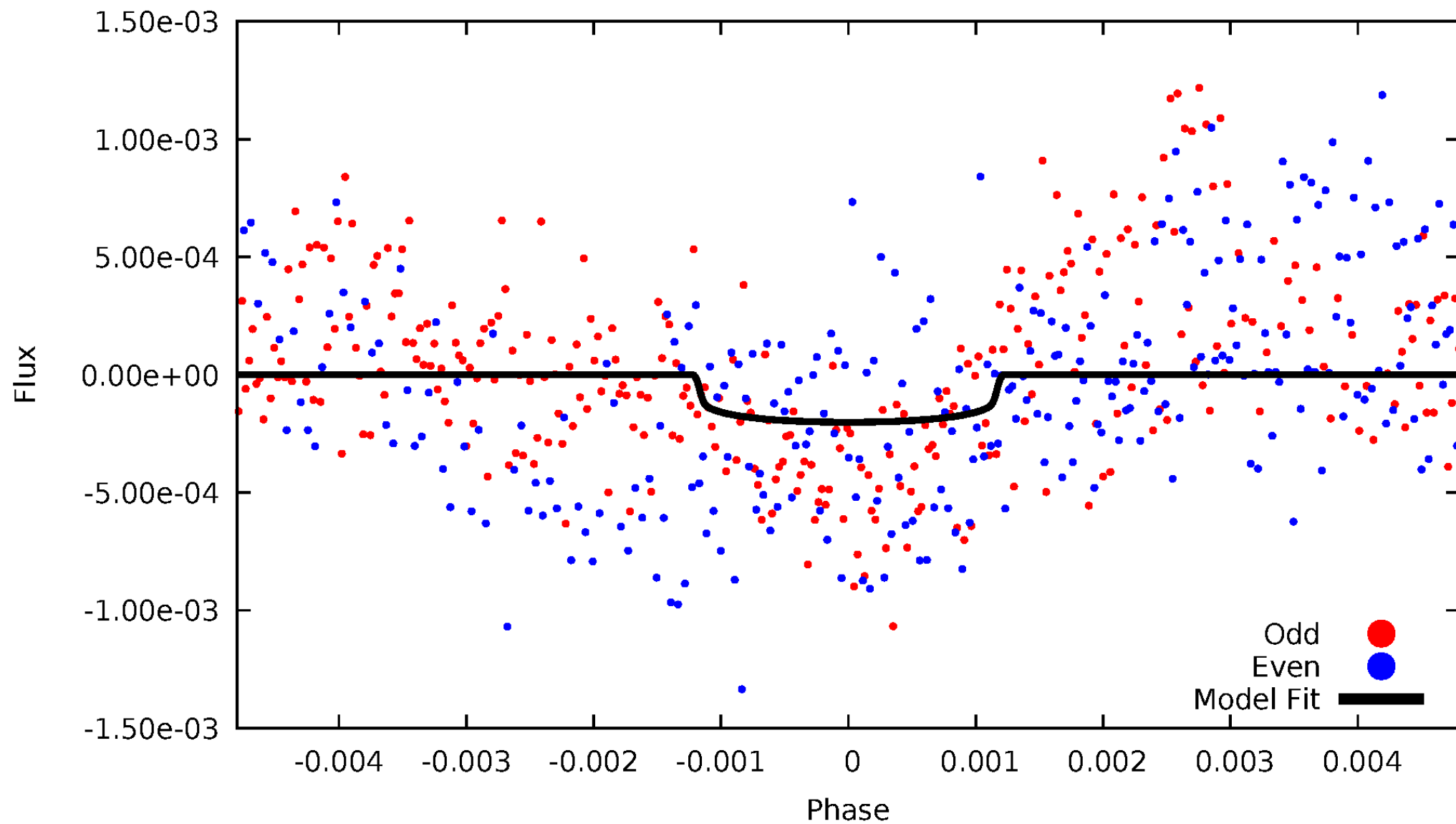


TCE 006119649-01



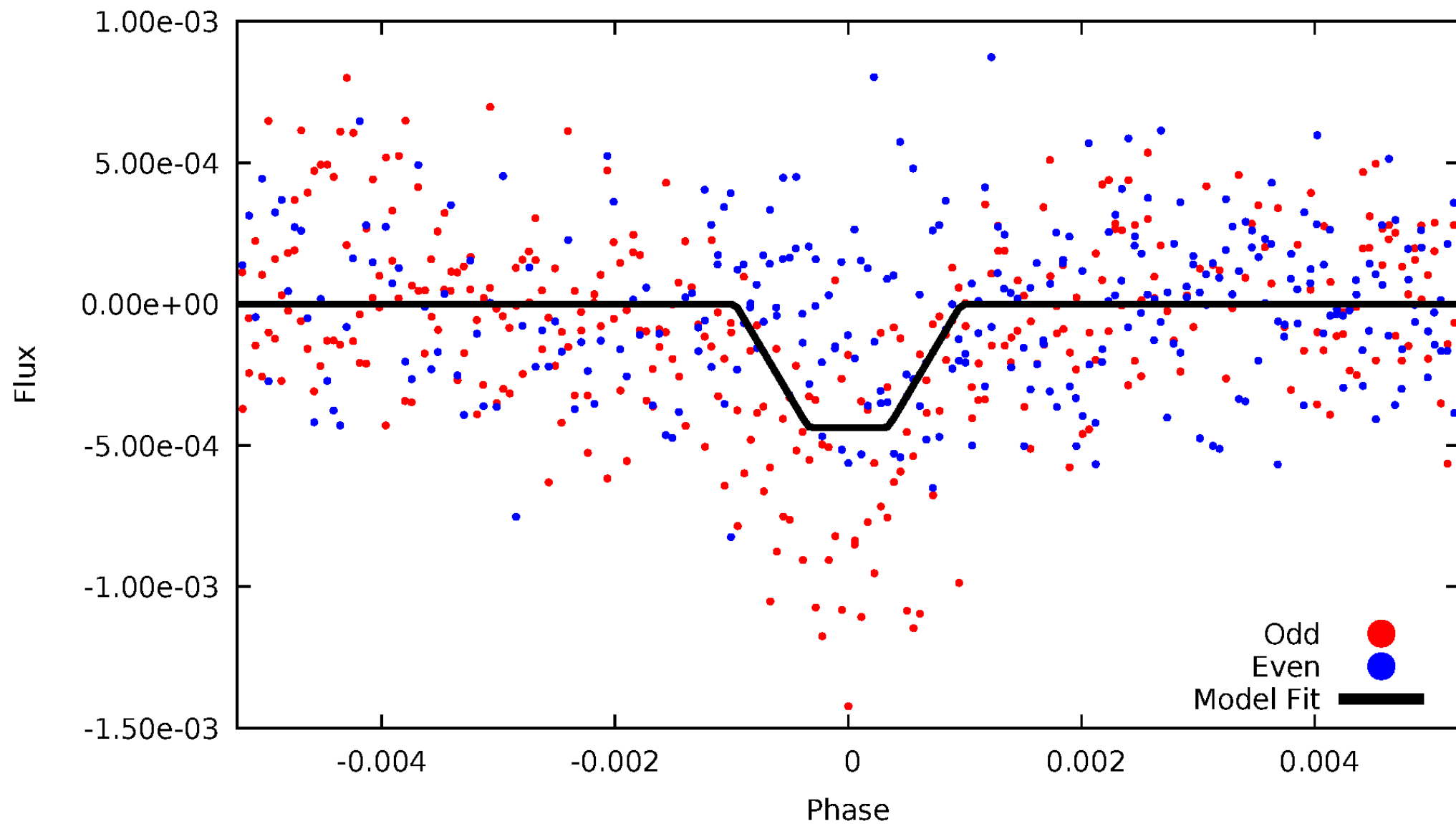
DV Odd/Even

TCE 006119649-01

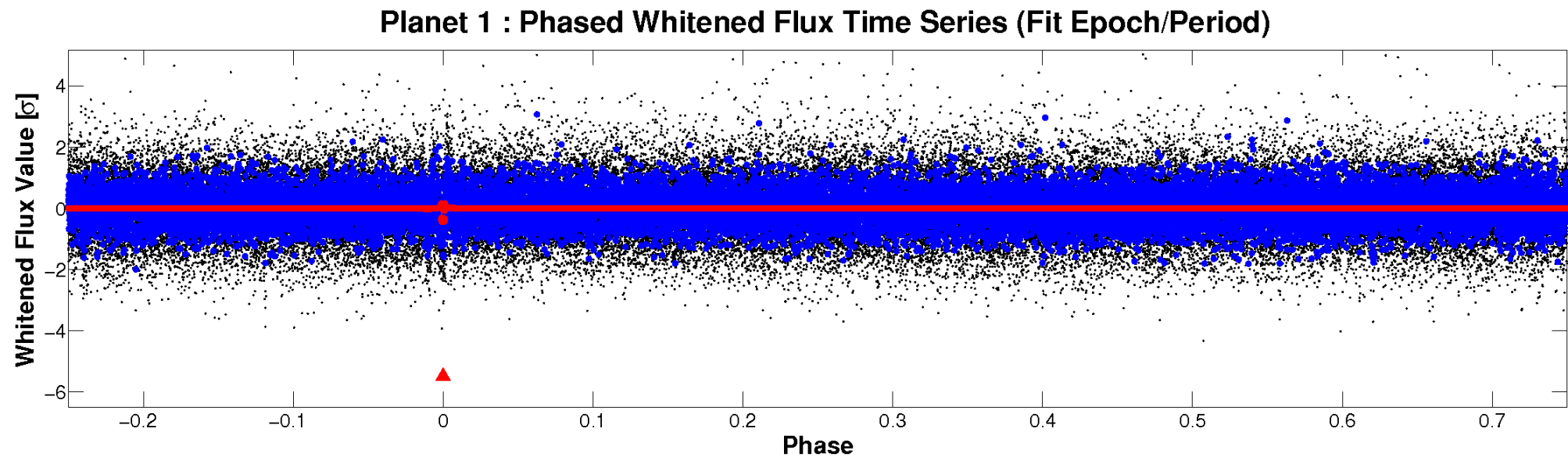
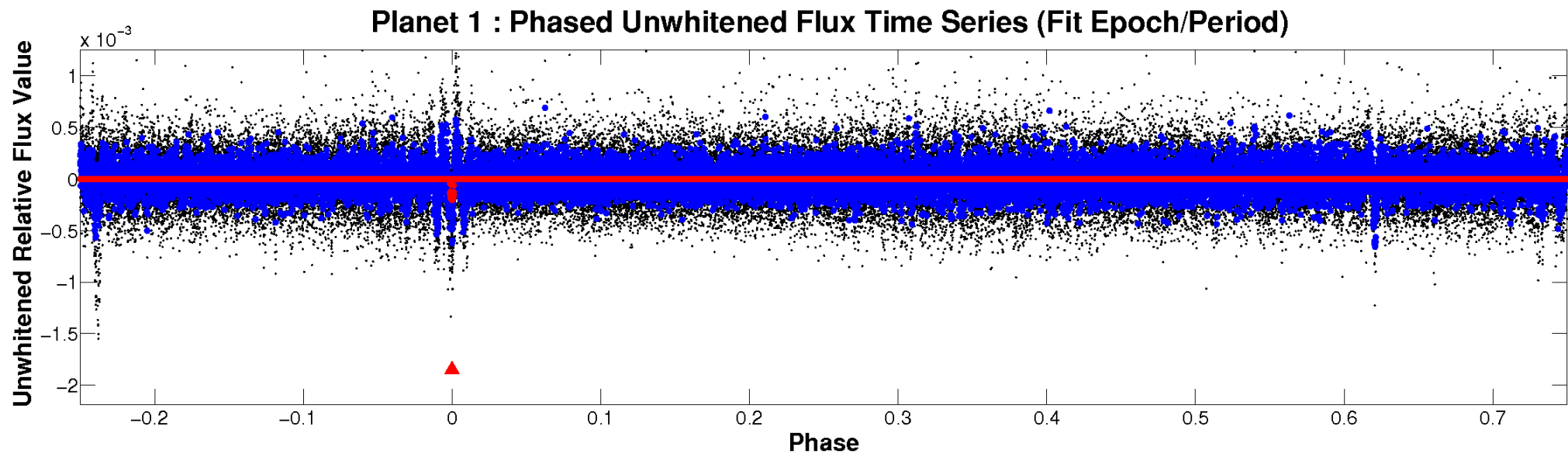


ALT Odd/Even

TCE 006119649-01

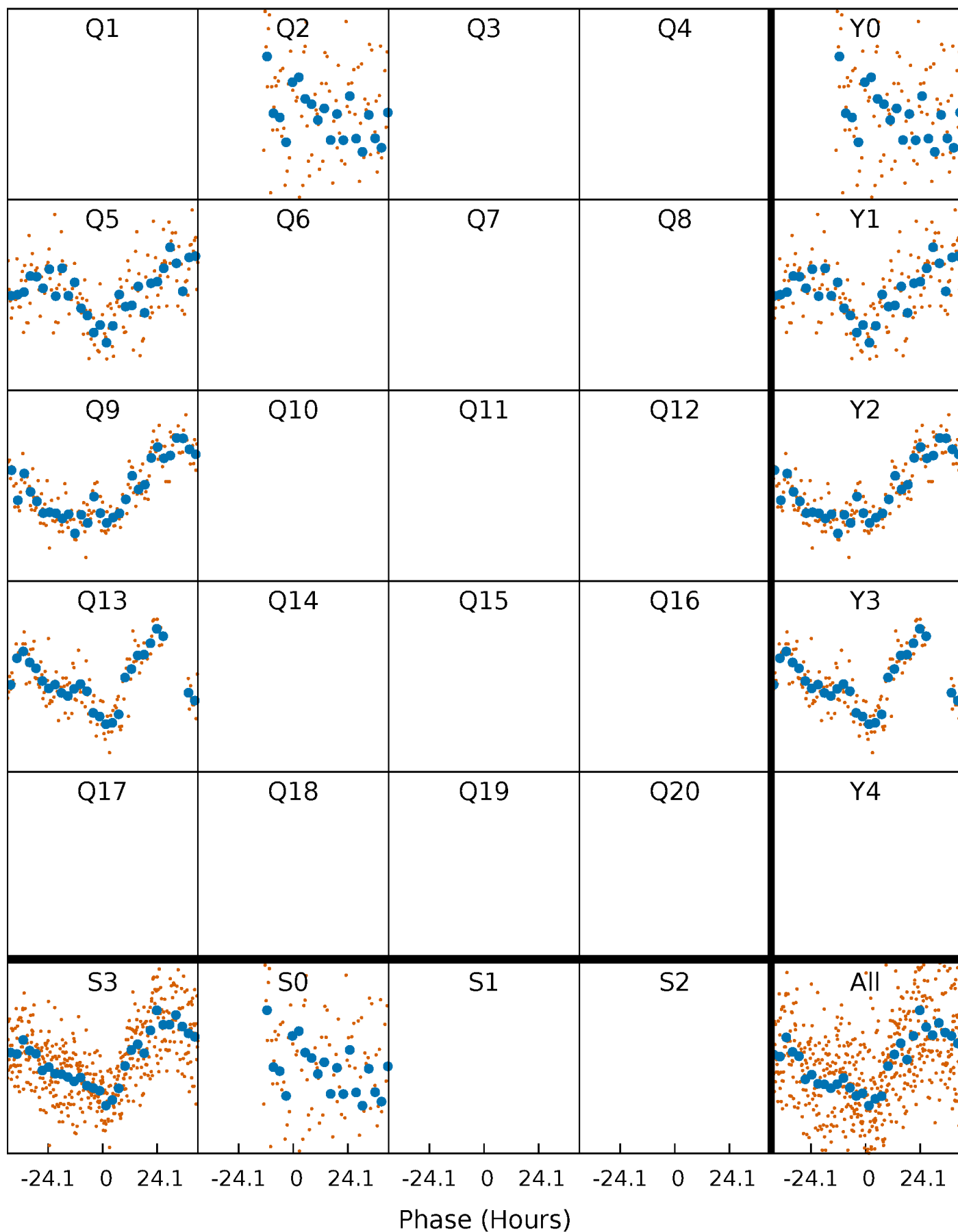


Non-Whitened Vs. Whitened Light Curve



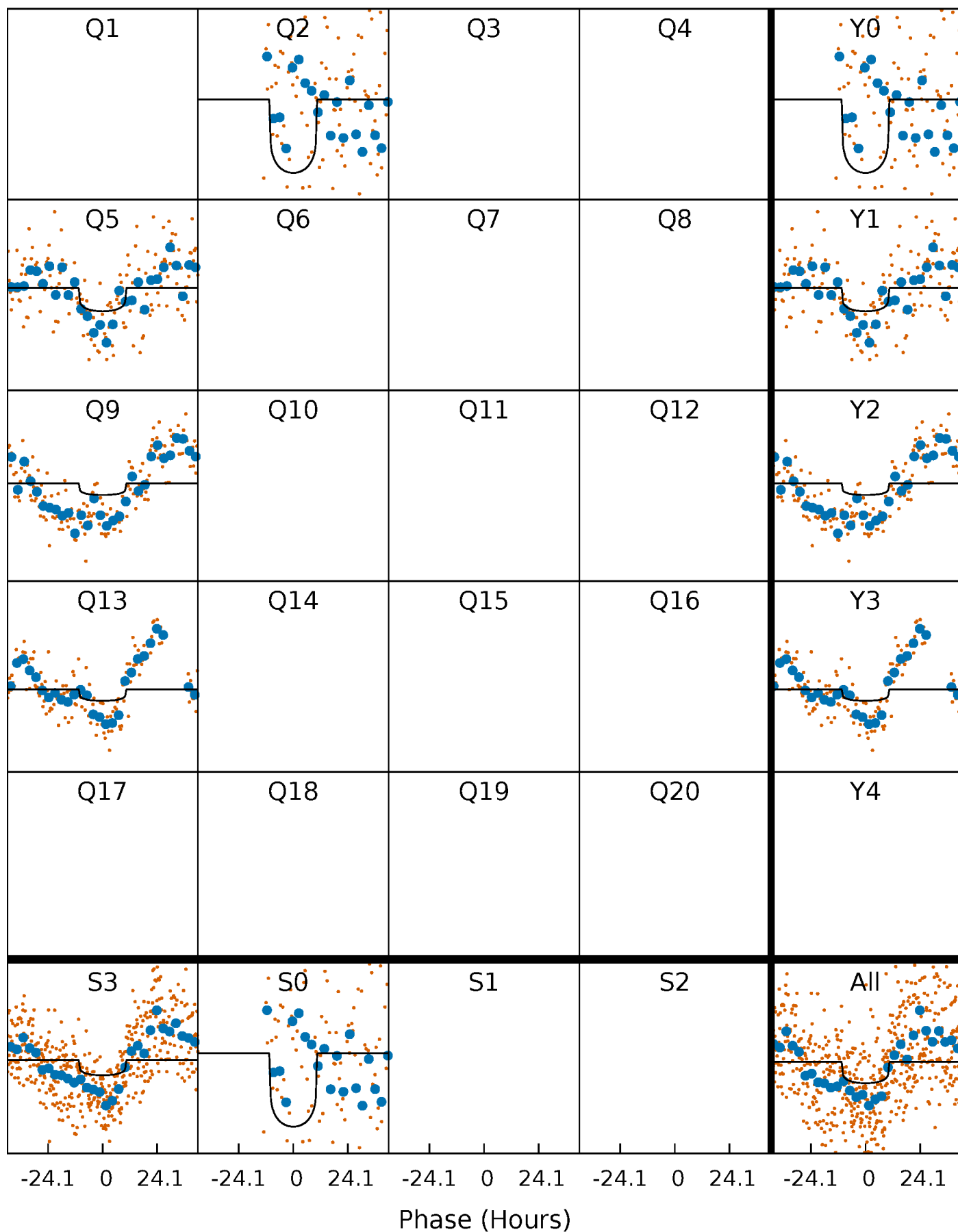
PDC Quarter-Phased Transit Curves

TCE 006119649-01 P=365.776772 Days $T_0=170.305743$ (BKJD)



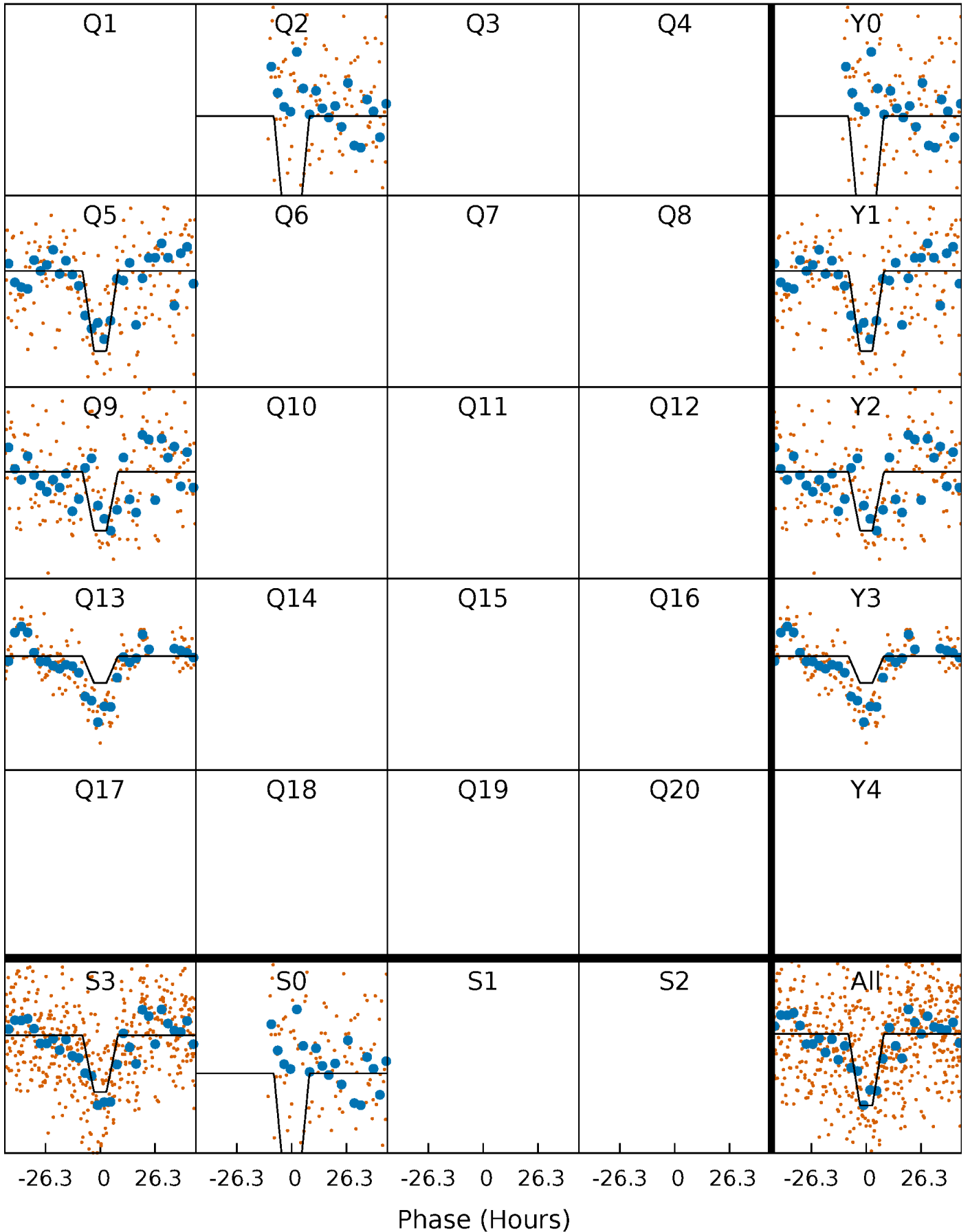
DV Quarter-Phased Transit Curves

TCE 006119649-01 P=365.776772 Days $T_0=170.305743$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

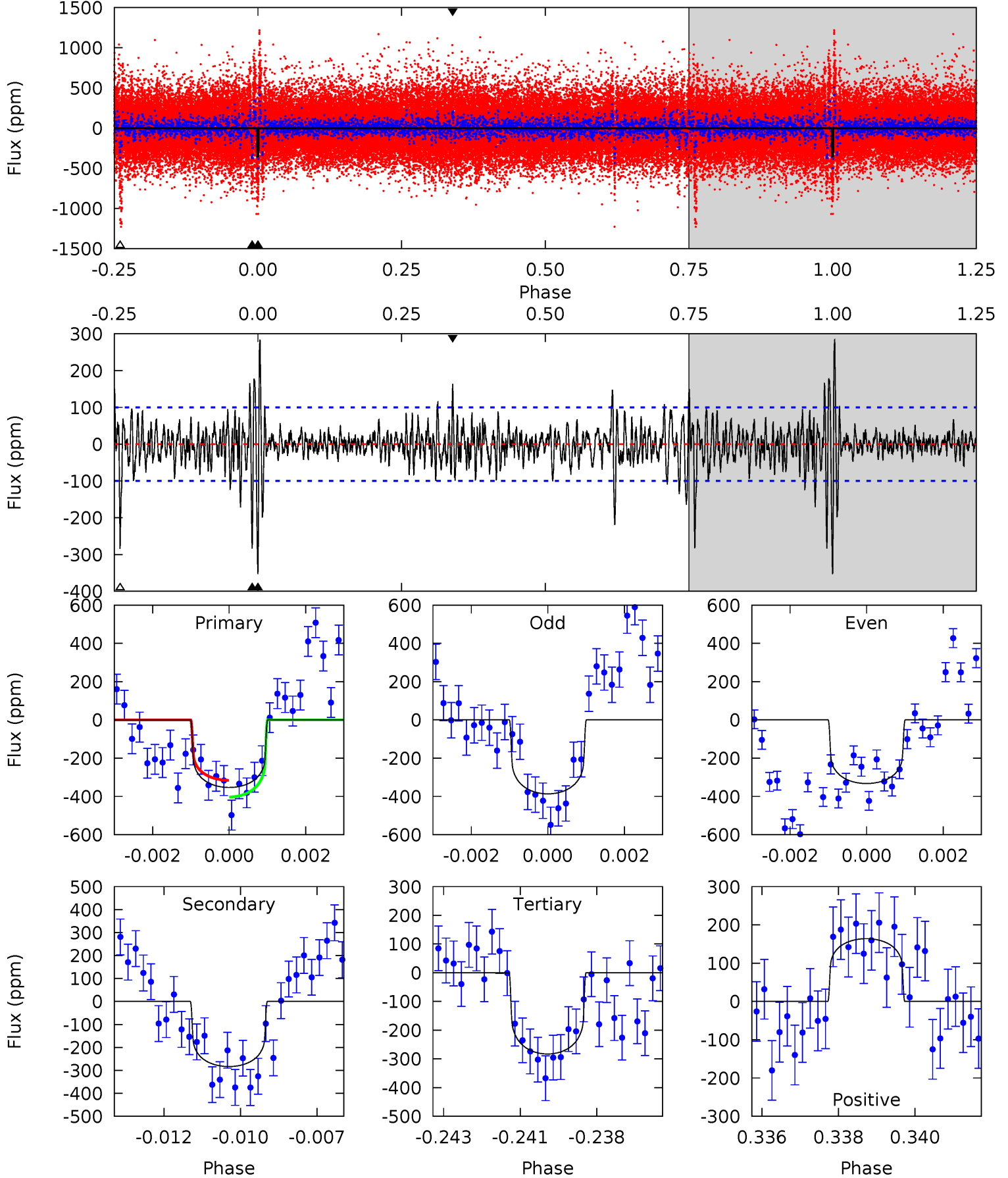
TCE 006119649-01 P=365.842458 Days $T_0=170.236913$ (BKJD)



DV Model-Shift Uniqueness Test

006119649-01, P = 365.776772 Days, E = 170.305743 Days

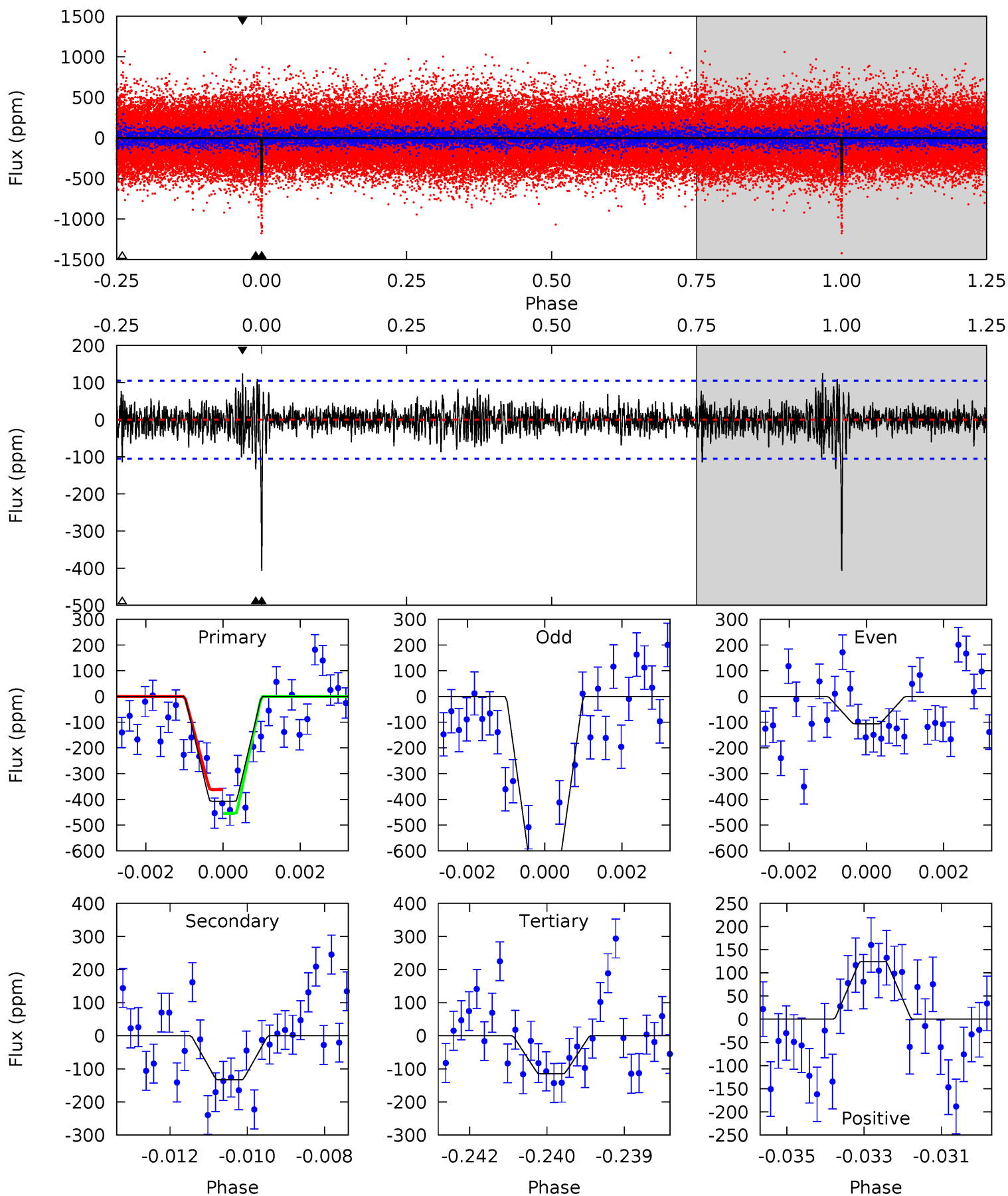
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.7	15.0	15.0	8.68	5.29	3.03	2.39	3.71	10.0	0.03	6.33	1.44	0.89	0.45	2.30



Alt Model-Shift Uniqueness Test

006119649-01, P = 365.842458 Days, E = 170.236913 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.6	6.74	5.81	6.30	5.33	3.10	1.35	14.8	14.3	0.93	0.44	14.9	1.21	0.23	2.34



Stellar Parameters For KIC 006119649

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6231^{+169}_{-206}	$4.488^{+0.052}_{-0.208}$	$-0.320^{+0.300}_{-0.350}$	$0.955^{+0.291}_{-0.097}$	$1.025^{+0.134}_{-0.134}$	$1.655^{+0.456}_{-0.898}$
	+3%/-3%	+1%/-5%	+94%/-109%	+30%/-10%	+13%/-13%	+28%/-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 006119649-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-284 ± 19	$1.51^{+0.73}_{-0.64}$	381^{+27}_{-18}	6899^{+2965}_{-1198}	$67504^{+142697}_{-35108}$
Alt.	-133 ± 20	$2.35^{+0.70}_{-0.73}$	382^{+28}_{-19}	4699^{+749}_{-451}	13162^{+13889}_{-5515}

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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

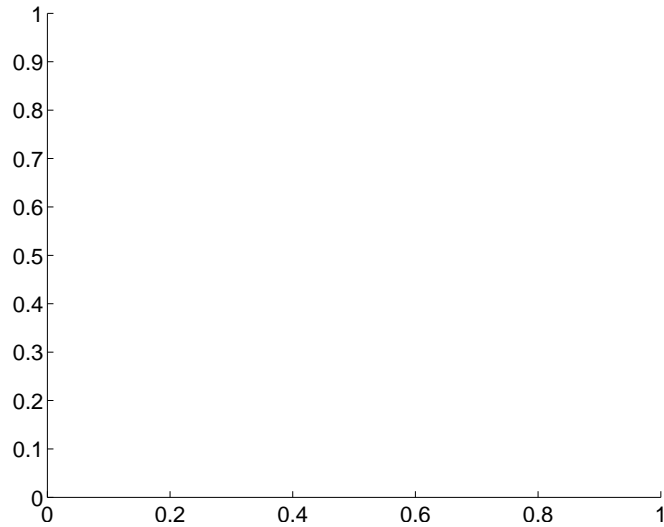
Supplemental centroid analysis for 006119649-01. Kepler magnitude: 14.36. Transit SNR 5.47

There are 0 quarters with good PRF difference image offsets

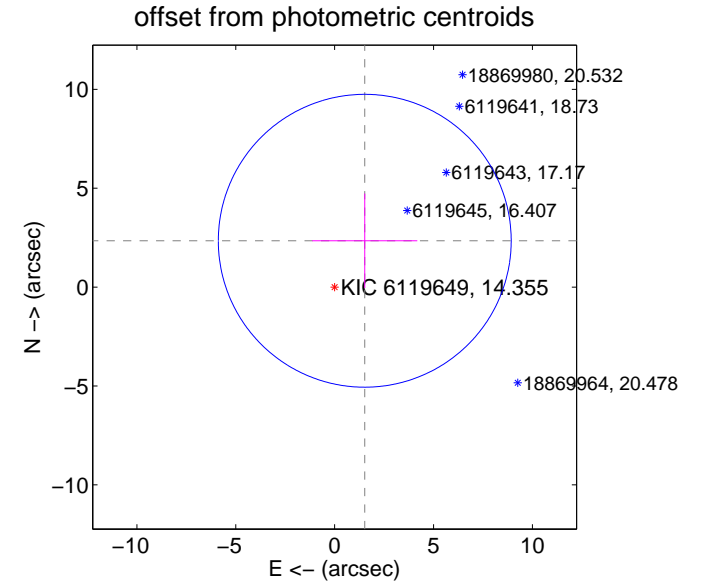
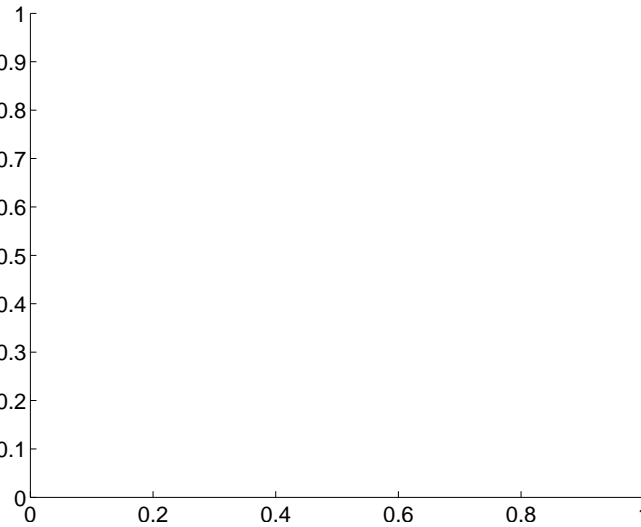
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	2.79 ± 2.47	1.13	-1.52 ± 2.66	2.34 ± 2.38

There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC

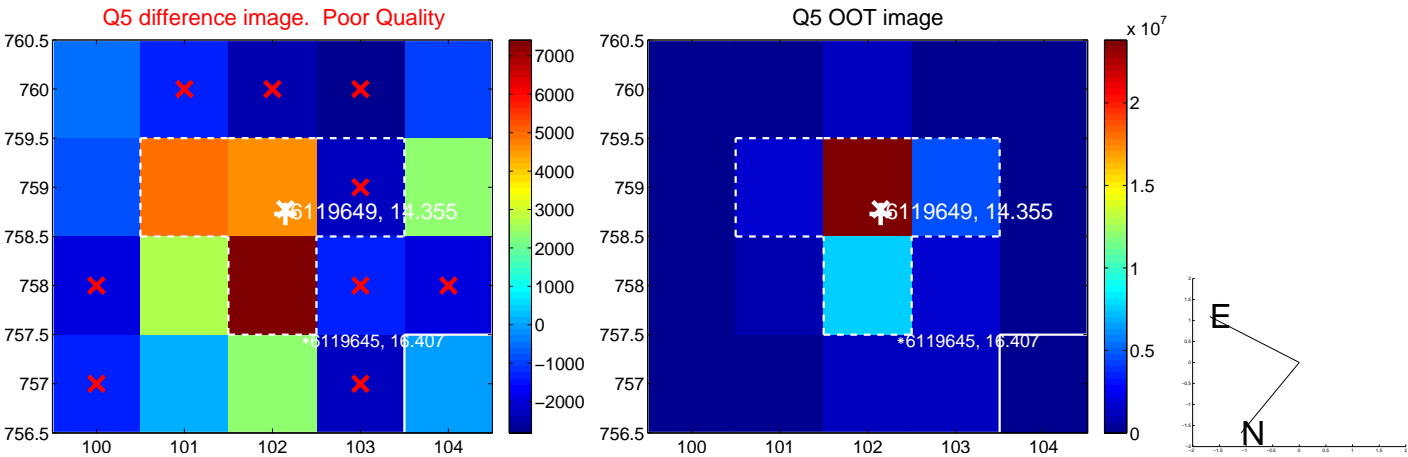


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

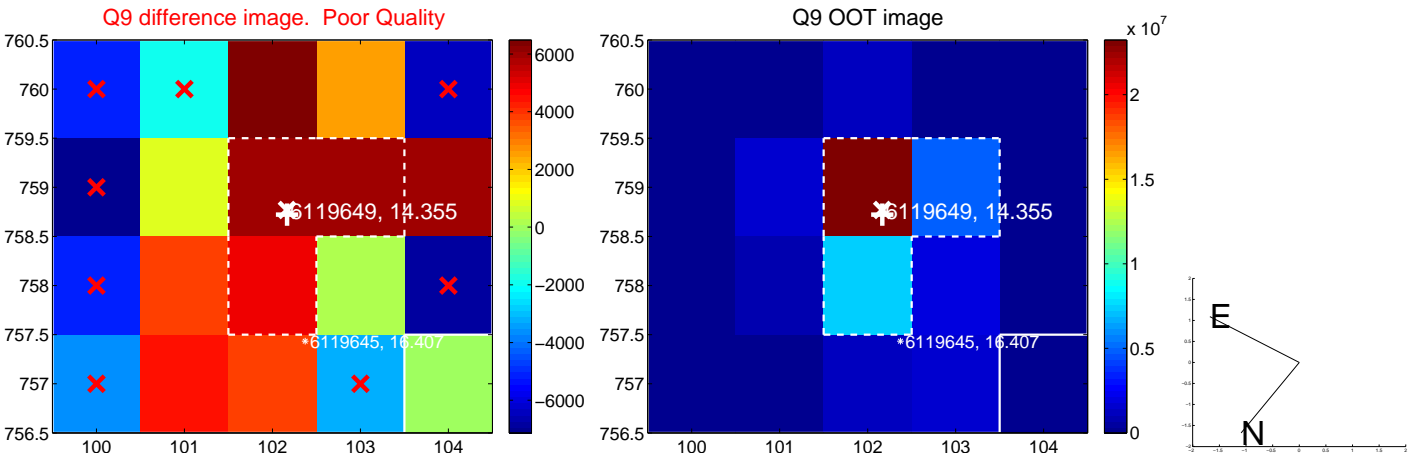
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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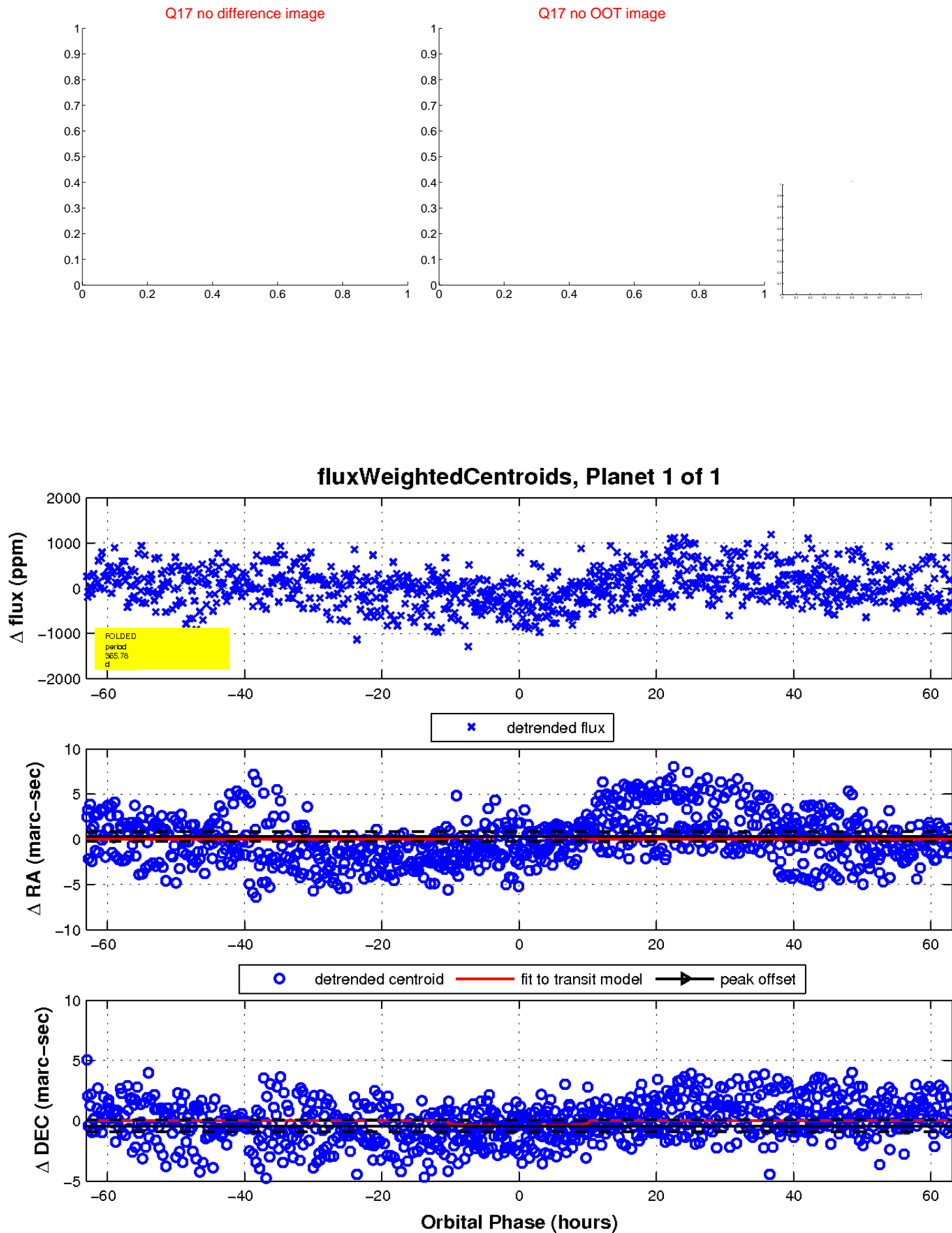
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UKIRT Image

Declination

