

KIC 003119603

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})
003119603-01	OBS	No	211.089826	340.839773	1606.1	8.311	13.2	8.3	1.04	6184	4.51	2.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003119603-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_ALT—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.

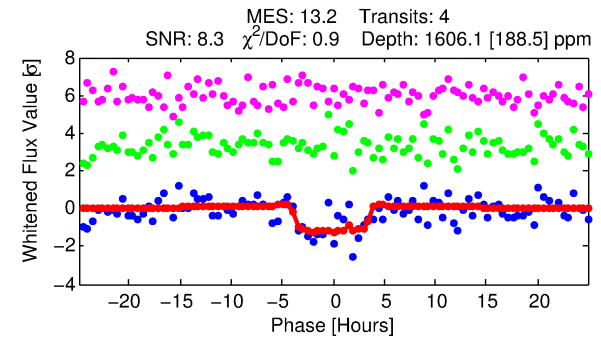
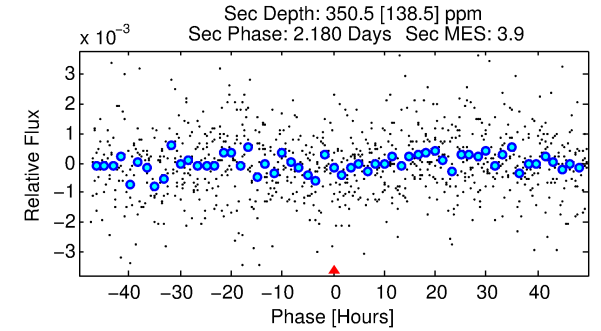
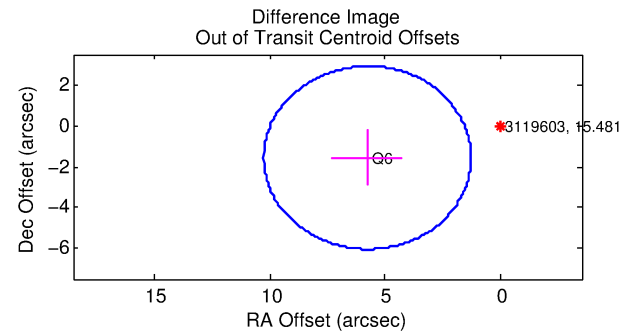
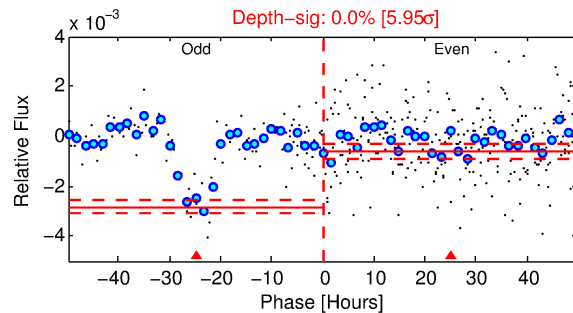
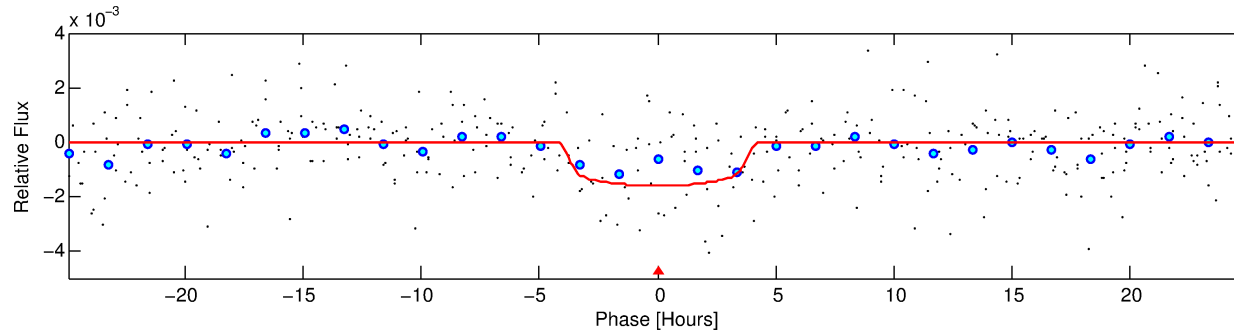
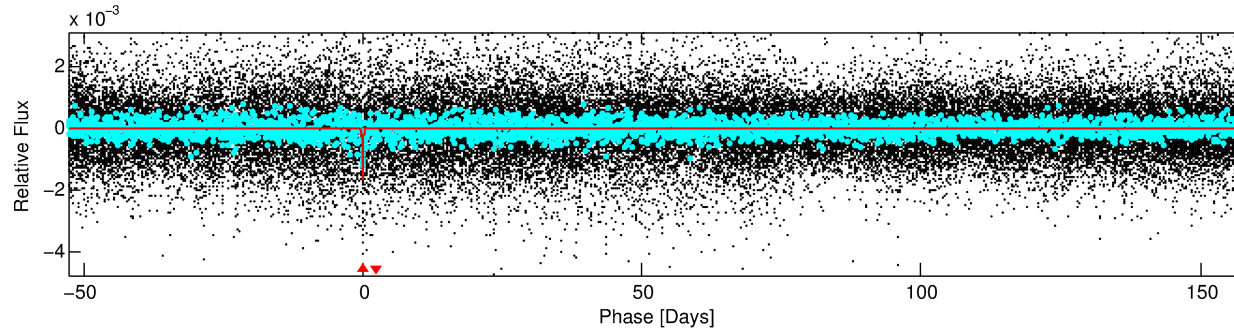
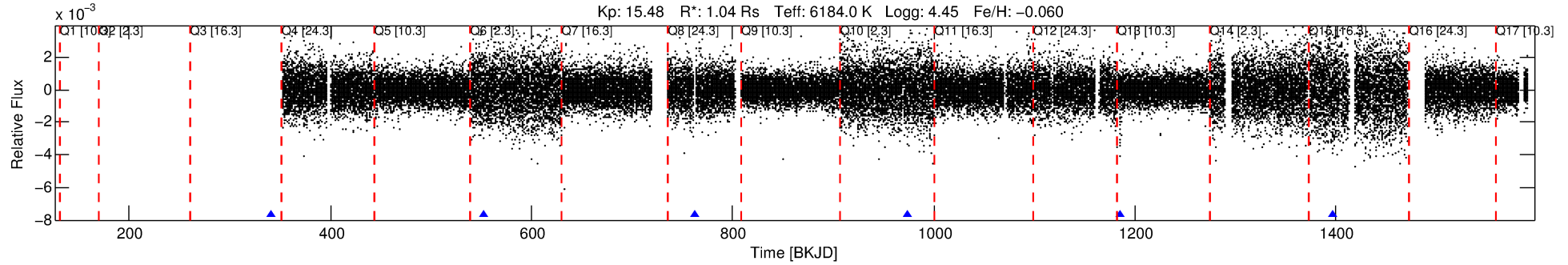
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003119603-01

No Significant Match Found

DV One-Page Summary

KIC: 3119603 Candidate: 1 of 1 Period: 211.090 d



DV Fit Results:

Period = 211.08983 [0.00669] d
Epoch = 340.8398 [0.0231] BKJD
Rp/R* = 0.0399 [0.0089]
a/R* = 139.88 [146.18]
b = 0.75 [0.62]
Seff = 2.75 [1.12]
Teq = 328 [34] K
Rp = 4.52 [1.73] Re
a = 0.7169 [0.1860] AU
Ag = 4861.74 [3415.63] [1.42 σ]
Teffp = 4238 [655] K [5.96 σ]

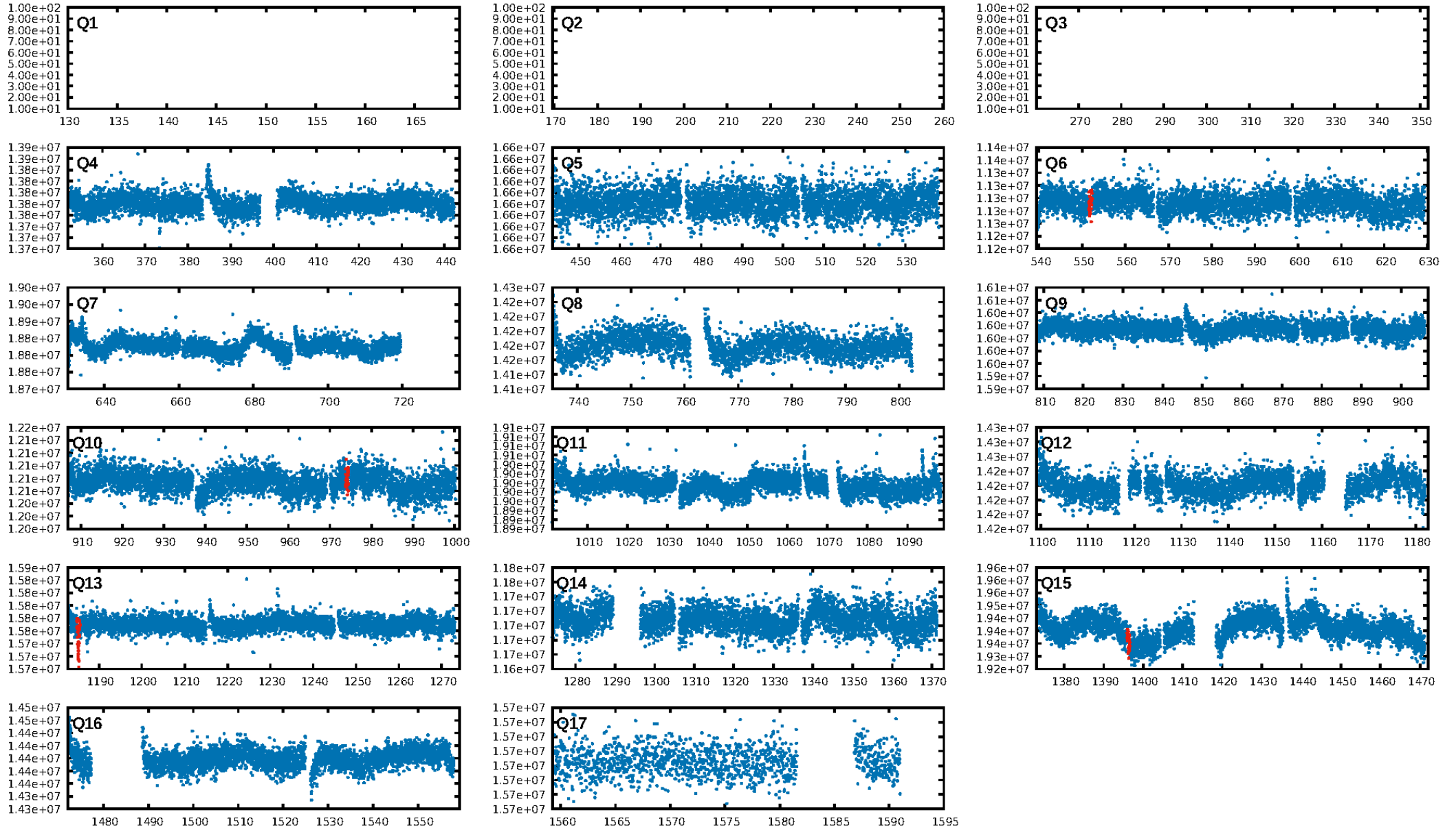
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 98.7%
Bootstrap-pfa: 3.12e-30
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -18.88
Centroid-sig: 56.6%
Centroid-so: 1.587 arcsec [6.65 σ]
OotOffset-rm: 5.981 arcsec [4.01 σ]
KicOffset-rm: 5.178 arcsec [3.47 σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [2/2]

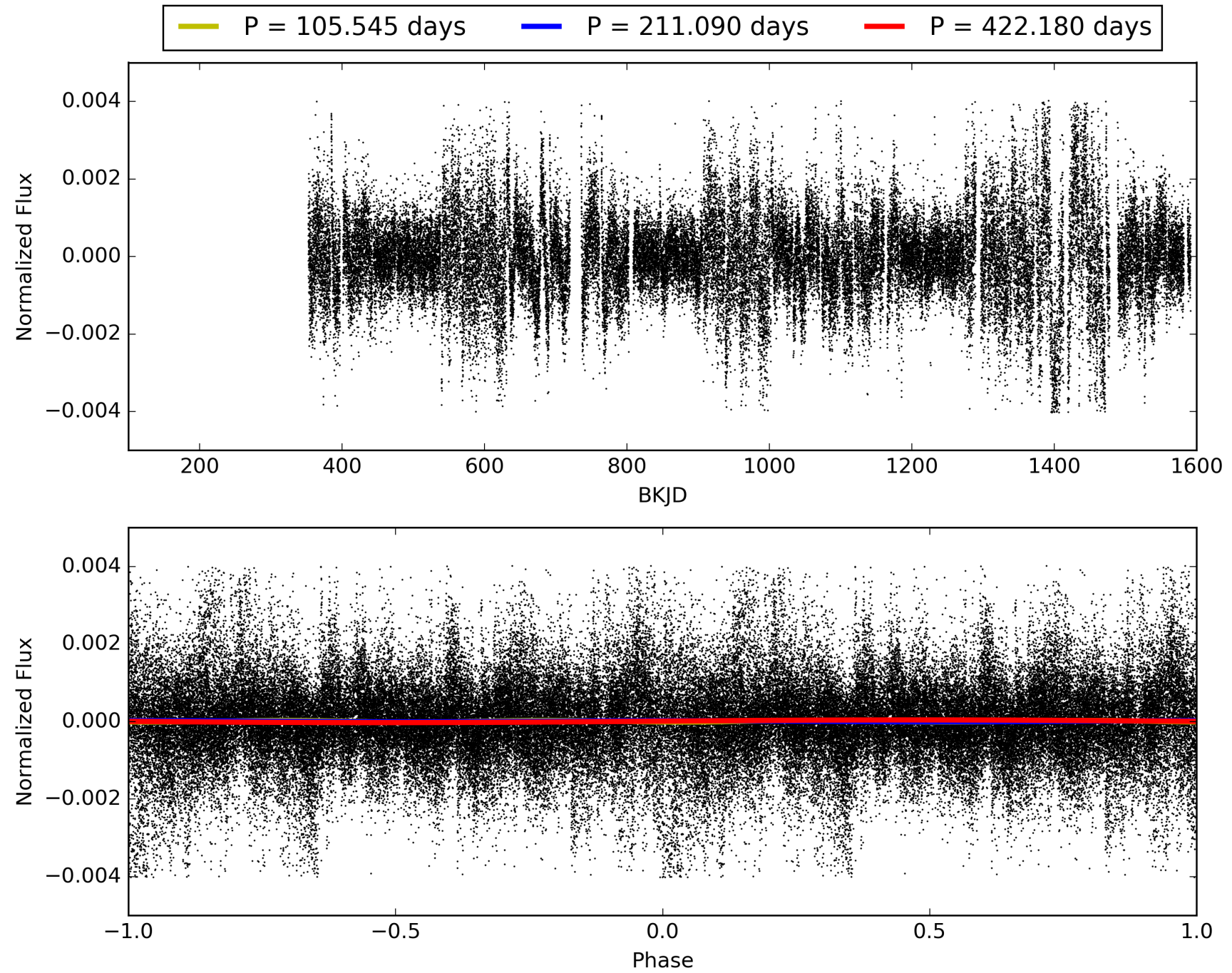
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:02:32 Z

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

TCE 003119603-01, PDC Light Curves

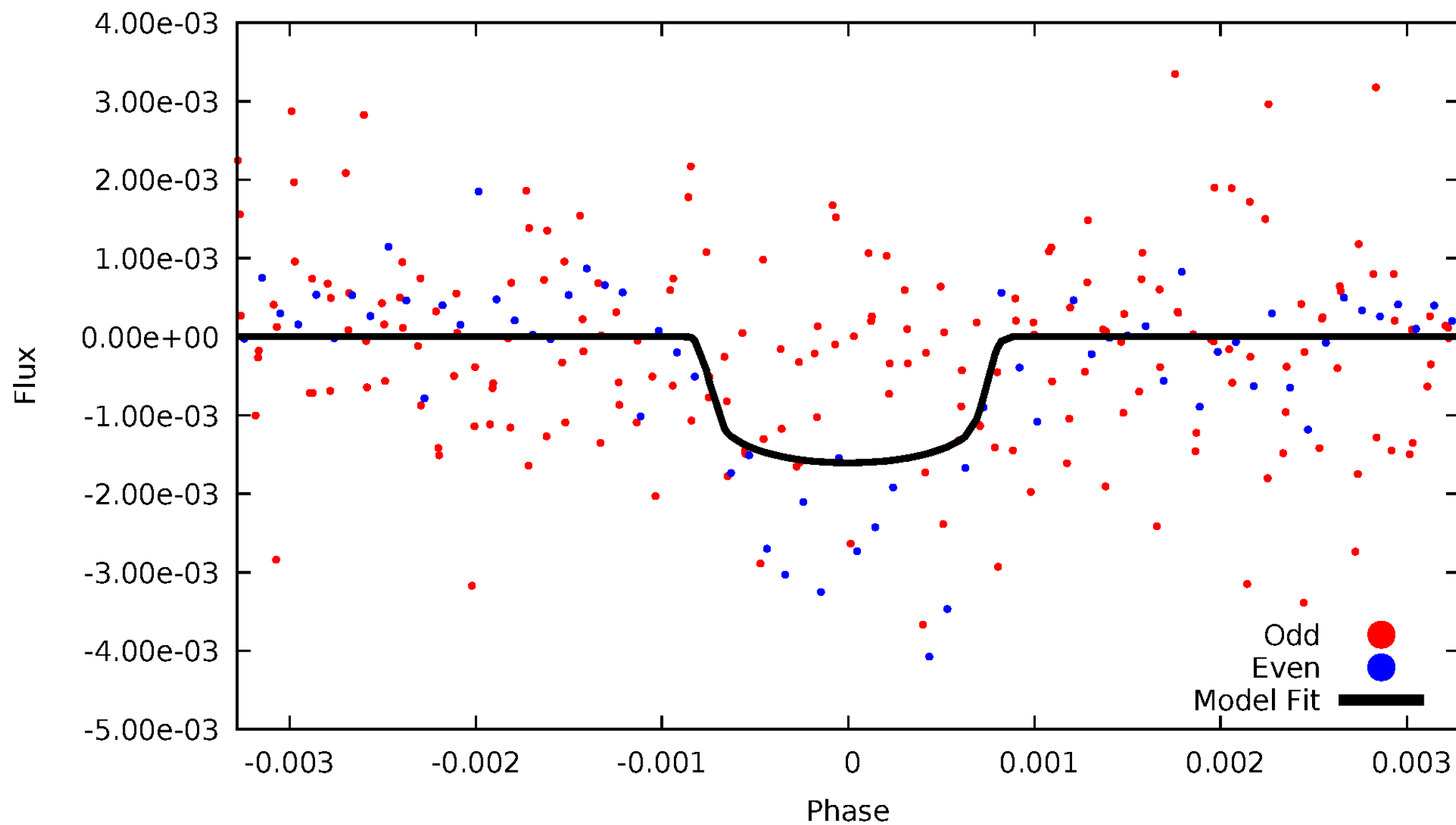


TCE 003119603-01



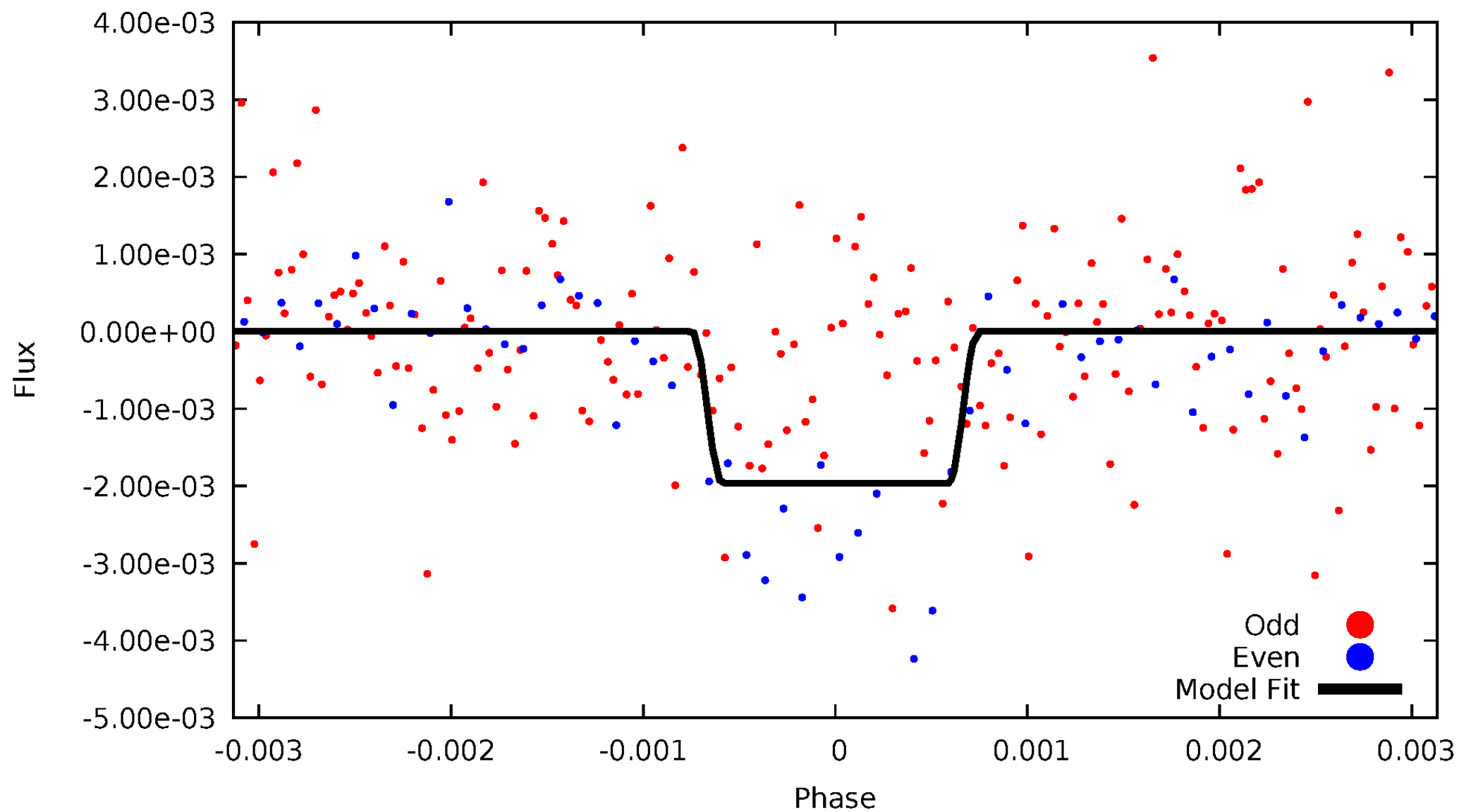
DV Odd/Even

TCE 003119603-01



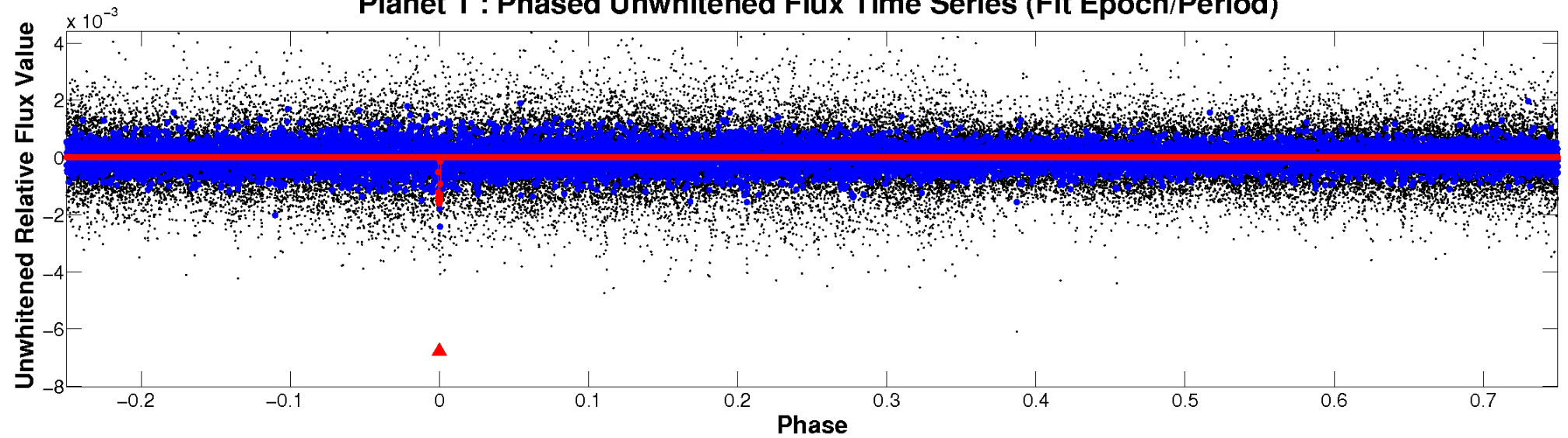
ALT Odd/Even

TCE 003119603-01

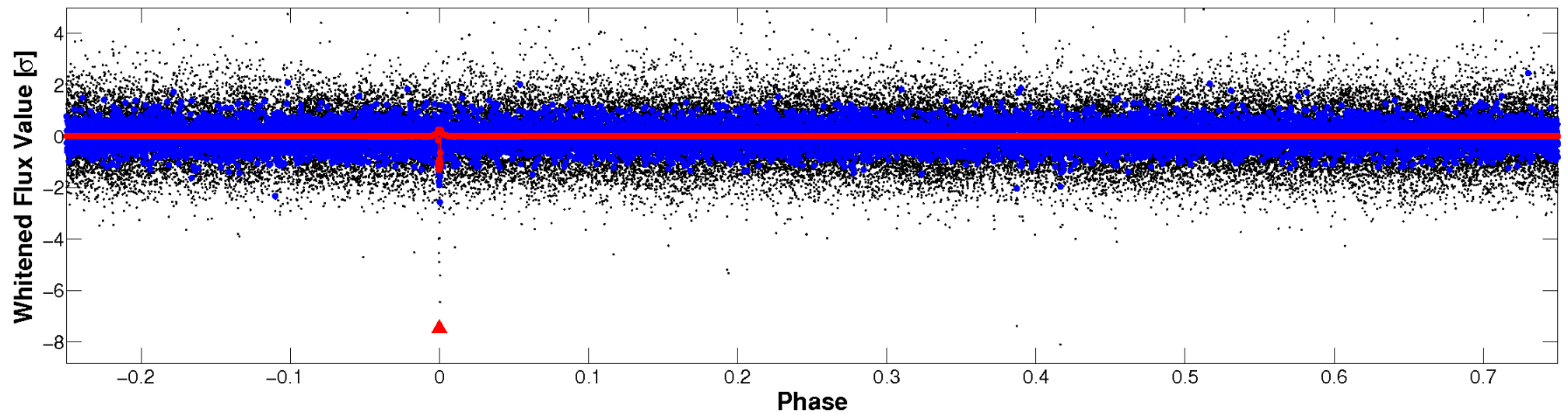


Non-Whitened Vs. Whitened Light Curve

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

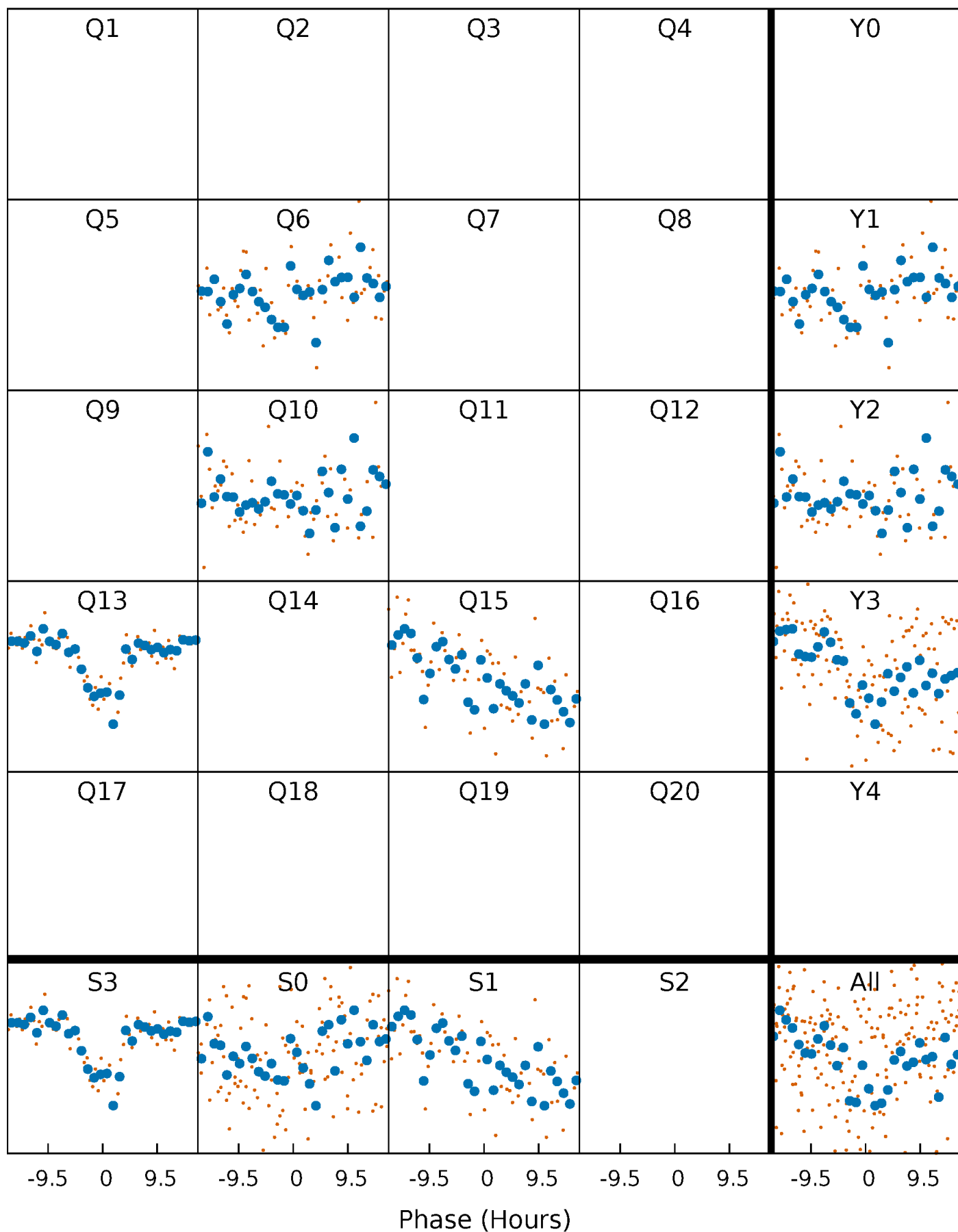


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



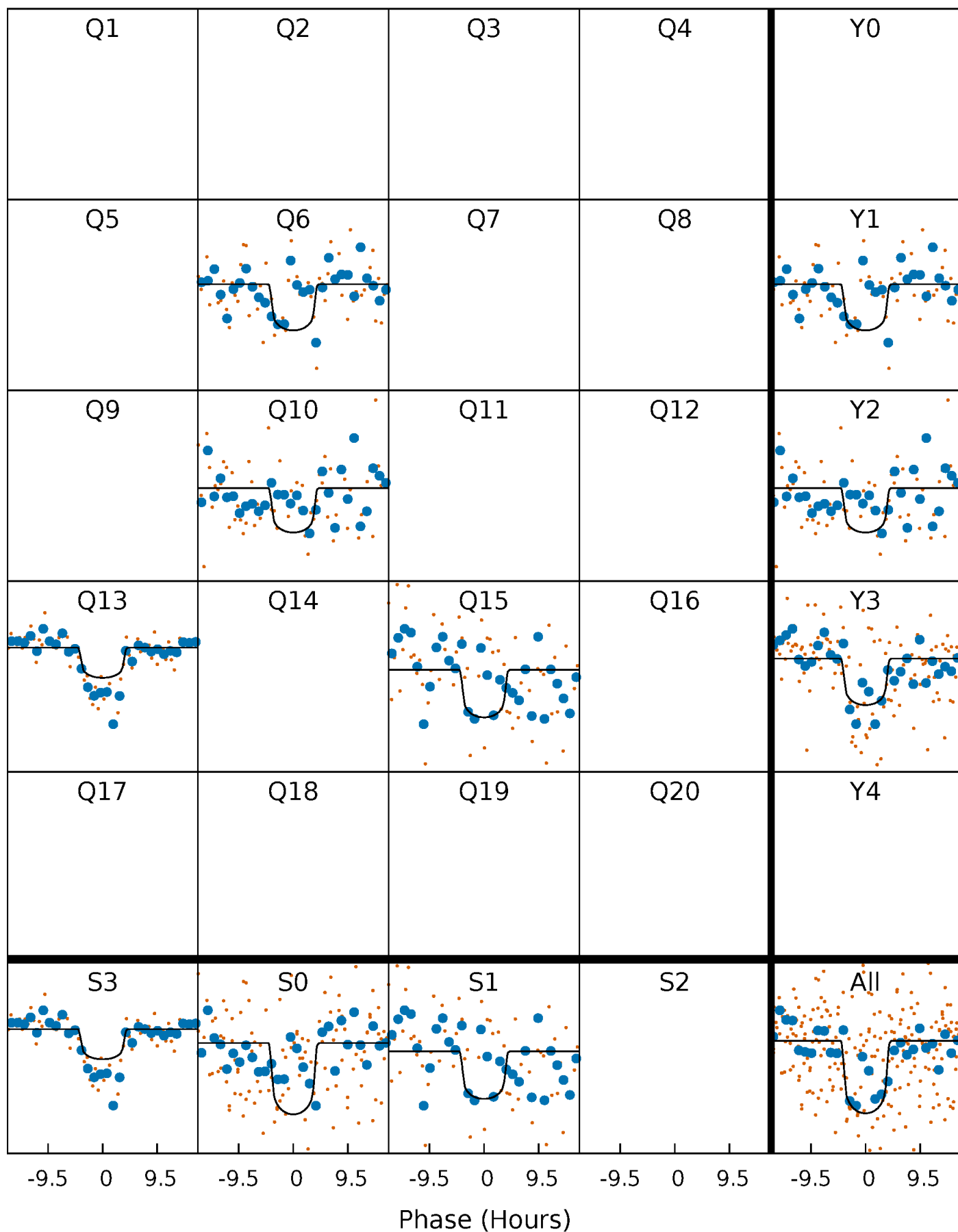
PDC Quarter-Phased Transit Curves

TCE 003119603-01 P=211.089826 Days $T_0=340.839773$ (BKJD)



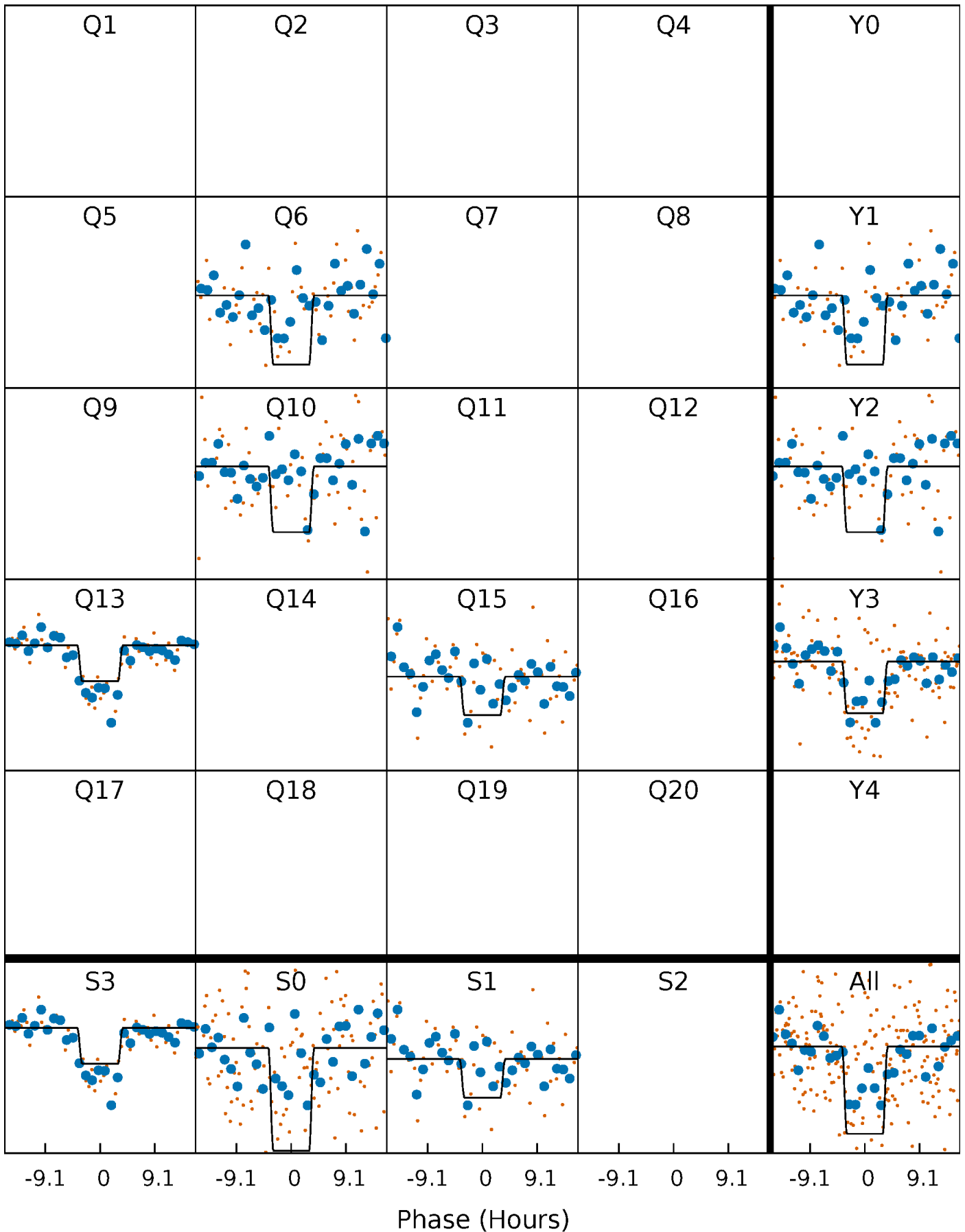
DV Quarter-Phased Transit Curves

TCE 003119603-01 P=211.089826 Days $T_0=340.839773$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

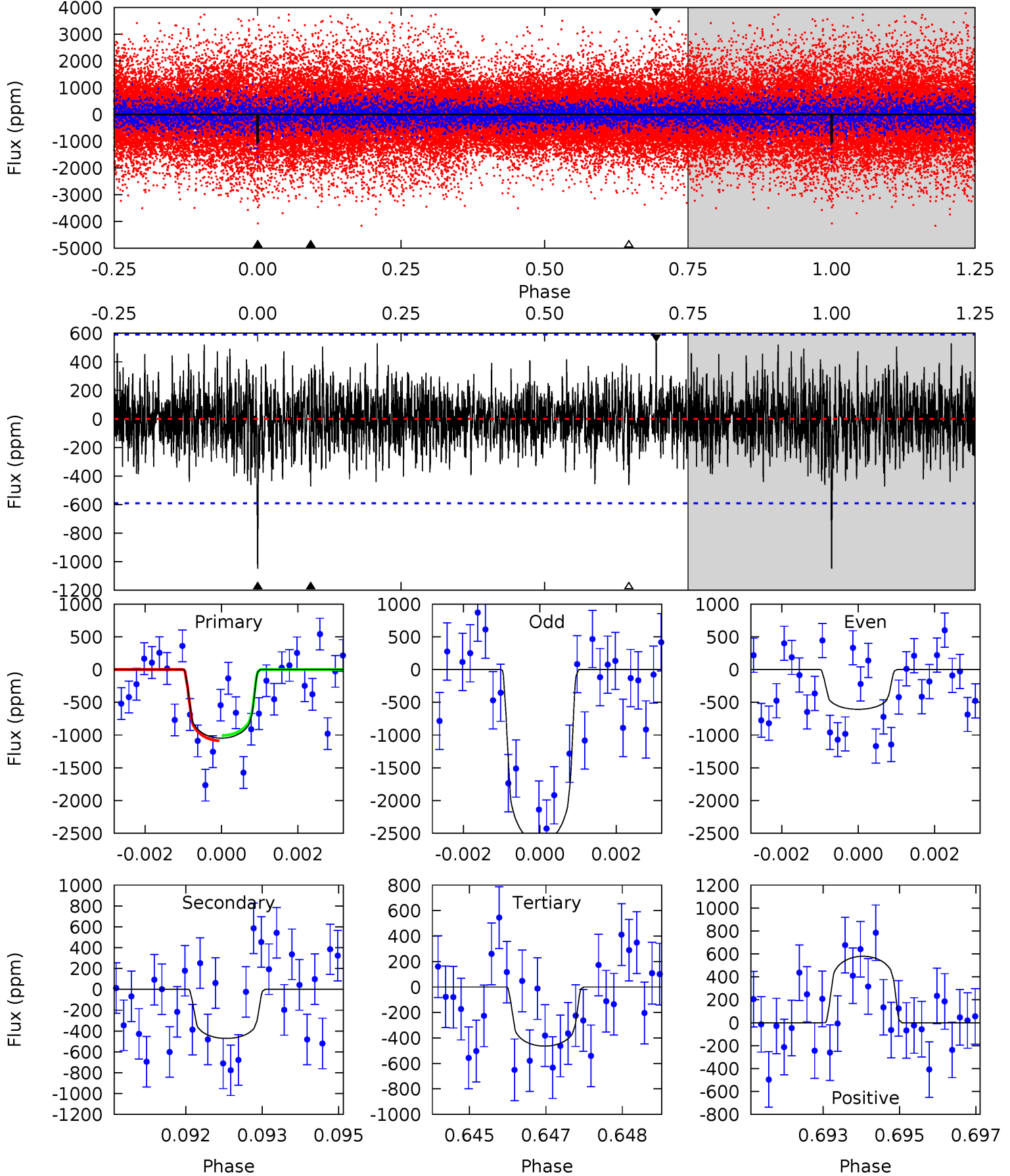
TCE 003119603-01 P=211.105919 Days $T_0=340.780869$ (BKJD)



DV Model-Shift Uniqueness Test

003119603-01, P = 211.089826 Days, E = 340.839773 Days

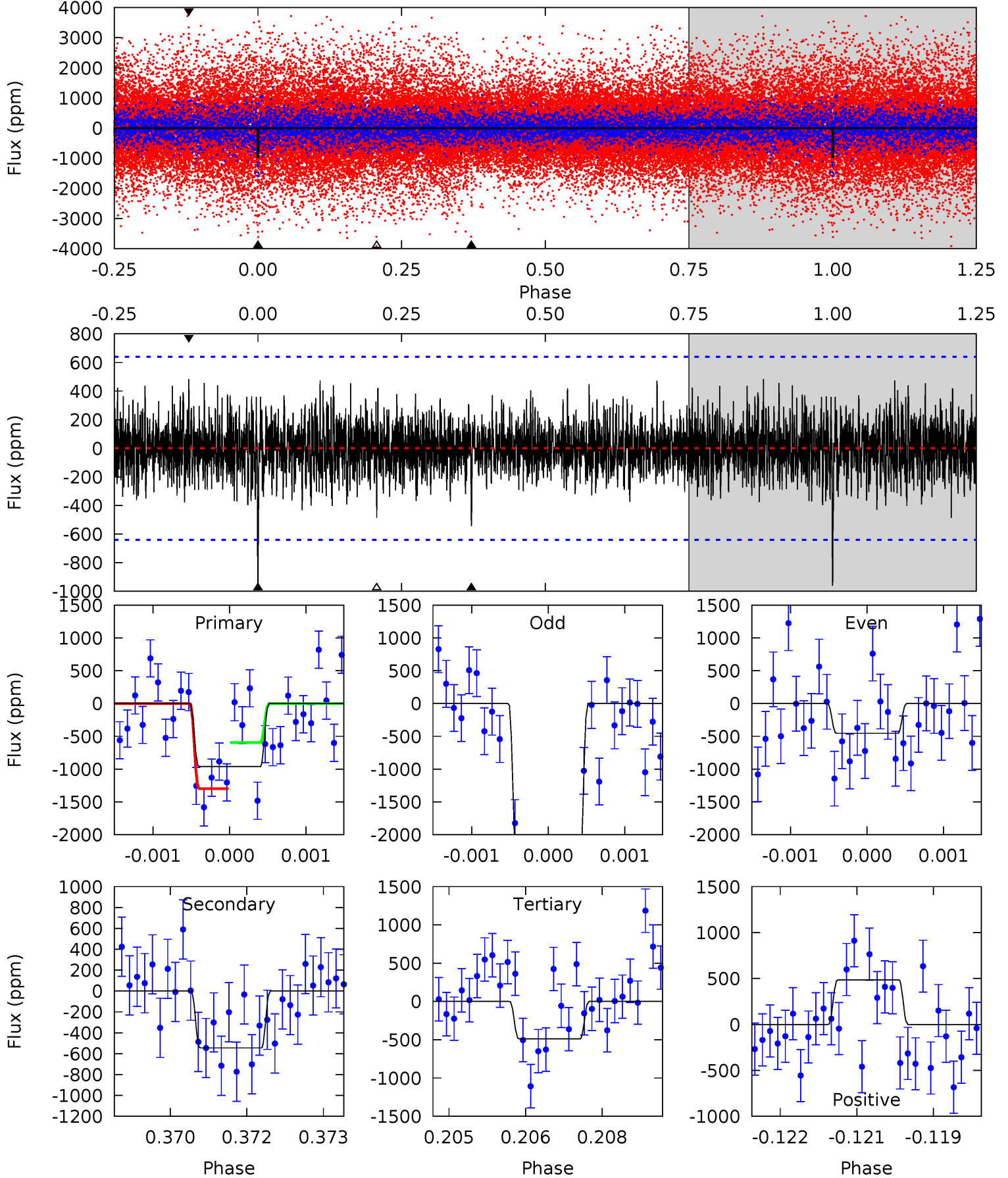
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.51	4.27	4.21	5.26	5.35	3.13	1.34	5.30	4.25	0.06	-0.98	8.74	1.74	0.36	0.36



Alt Model-Shift Uniqueness Test

003119603-01, P = 211.105919 Days, E = 340.780869 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.09	4.59	4.10	4.07	5.38	3.18	1.14	3.99	4.01	0.49	0.51	9.19	1.93	0.34	2.97



Stellar Parameters For KIC 003119603

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6184^{+193}_{-257}	$4.448^{+0.054}_{-0.202}$	$-0.060^{+0.250}_{-0.350}$	$1.038^{+0.324}_{-0.130}$	$1.100^{+0.151}_{-0.151}$	$1.387^{+0.393}_{-0.734}$
	+3%/-4%	+1%/-5%	+417%/-583%	+31%/-13%	+14%/-14%	+28%/-53%
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 003119603-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-471 ± 110	$4.74^{+1.29}_{-1.17}$	470^{+35}_{-26}	4673^{+606}_{-460}	5680^{+4695}_{-2365}
Alt.	-545 ± 119	$5.15^{+1.40}_{-1.15}$	466^{+36}_{-26}	4631^{+550}_{-407}	5490^{+4382}_{-2273}

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 $A_{obs} \gg 1.0$

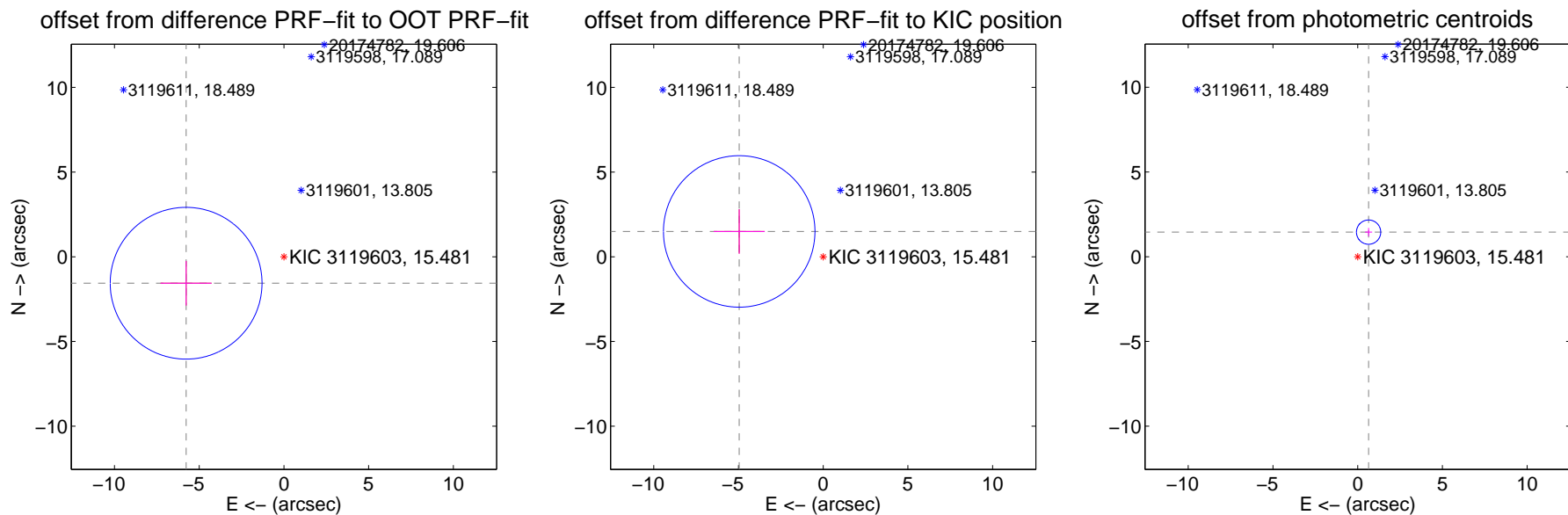
DV Centroid Data

Supplemental centroid analysis for 003119603-01. Kepler magnitude: 15.48. Transit SNR 8.27

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 3.17 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.981 ± 1.493	4.01	5.773 ± 1.505	-1.562 ± 1.314
PRF-fit source offset from KIC position	5.178 ± 1.490	3.47	4.957 ± 1.506	1.496 ± 1.314
photometric centroid source offset	1.59 ± 0.24	6.65	-0.64 ± 0.21	1.45 ± 0.24

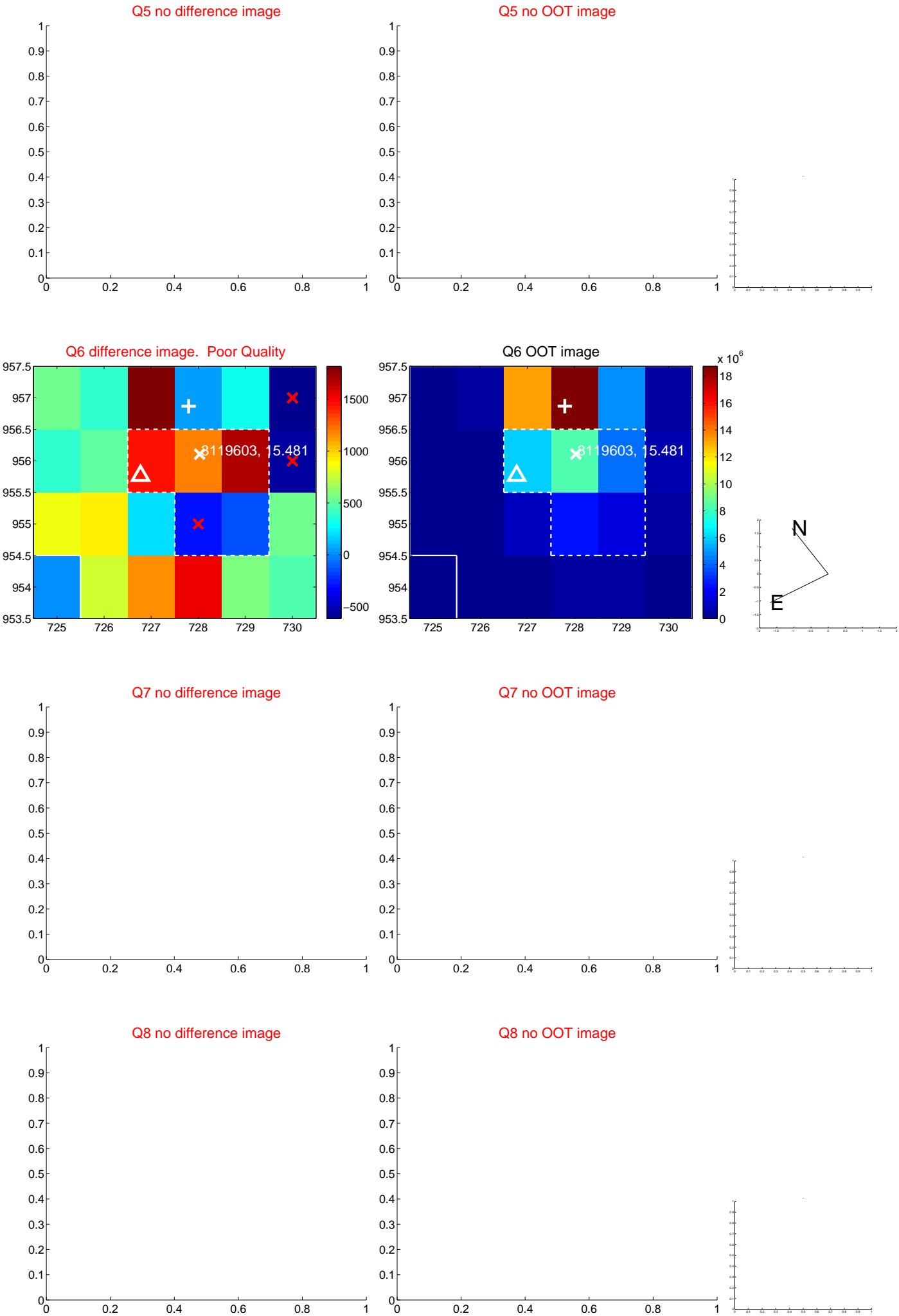


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

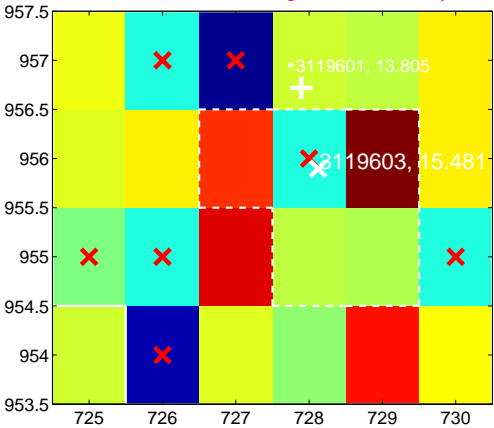
Q9 no difference image



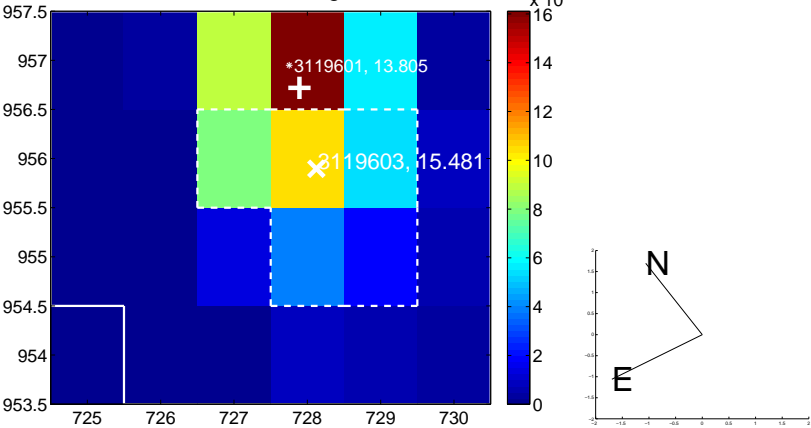
Q9 no OOT image



Q10 difference image. Poor Quality



Q10 OOT image



Q11 no difference image



Q11 no OOT image



Q12 no difference image



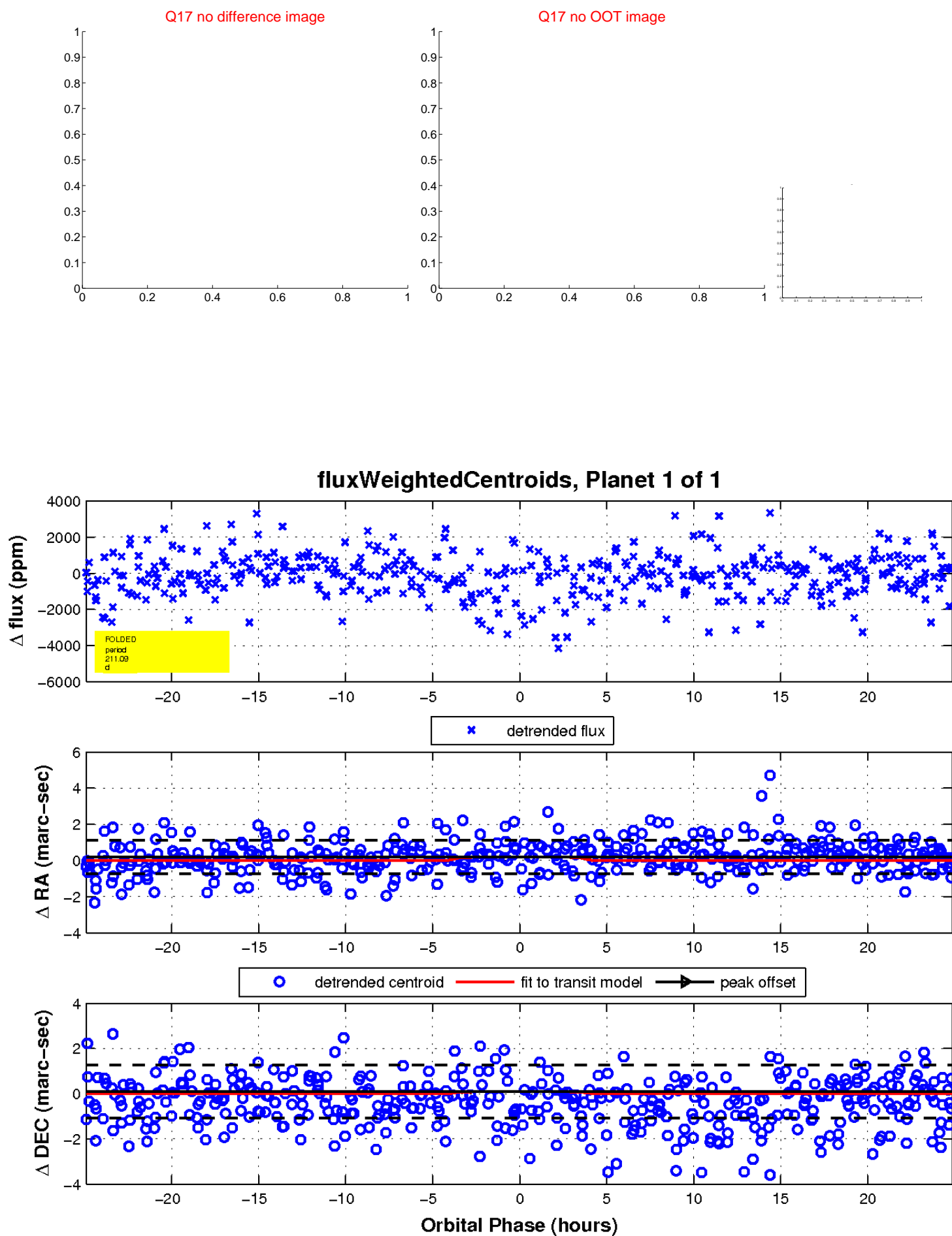
Q12 no OOT image



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.



UKIRT Image

