

KIC 011141326

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})
011141326-01	OBS	No	467.000095	151.412388	458.4	3.835	7.2	7.7	1.83	5262	4.33	1.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011141326-01	OBS	FP	0.02	1	0	0	0	INDIV_TRANS_CHASES—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT

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

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

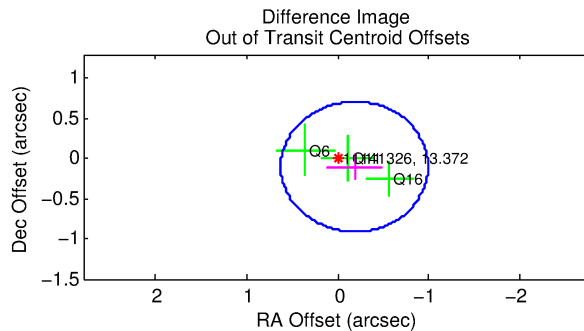
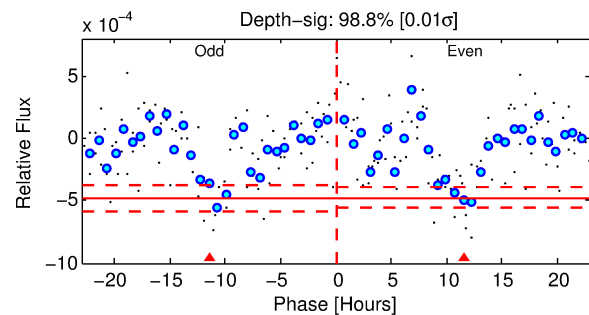
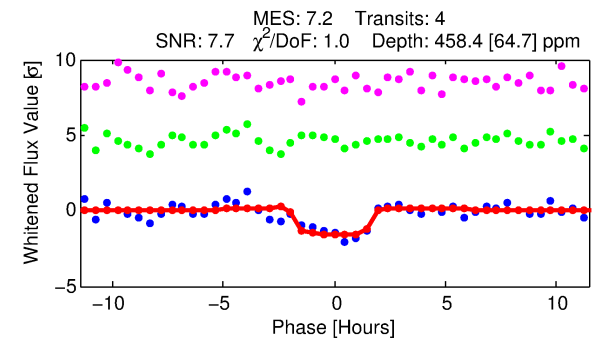
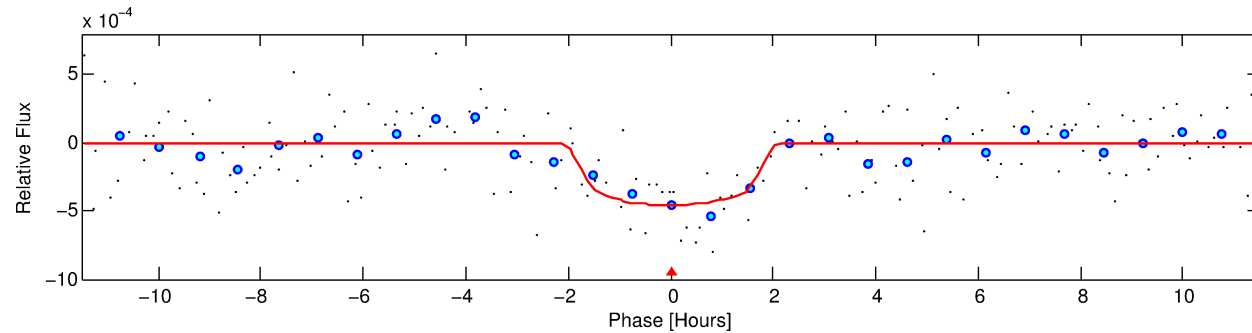
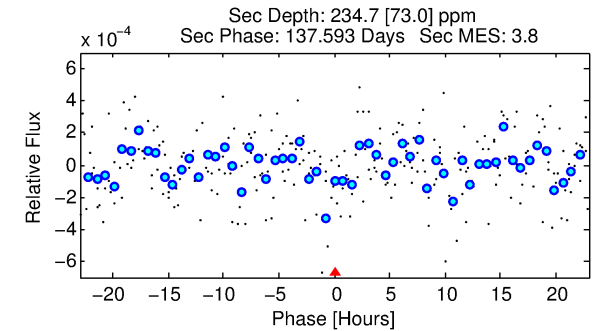
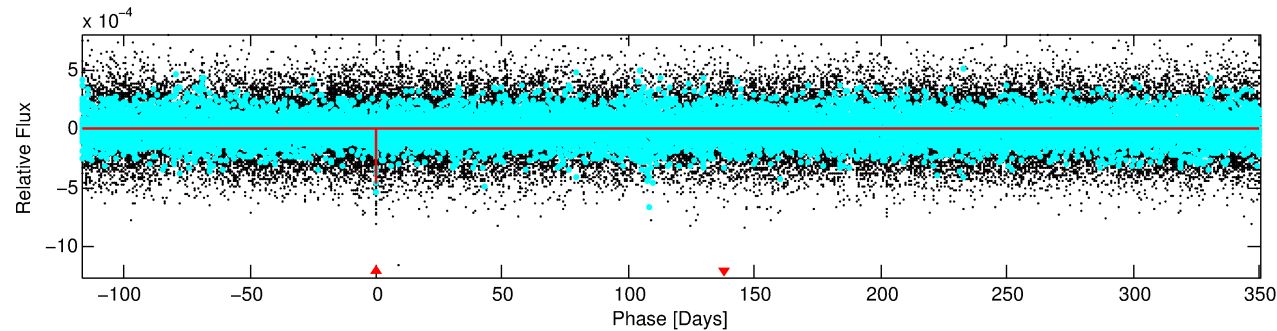
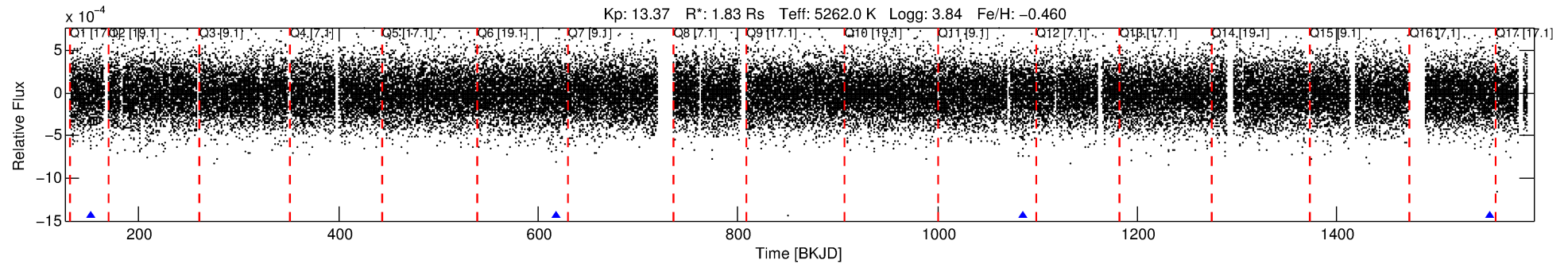
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011141326-01

No Significant Match Found

DV One-Page Summary

KIC: 11141326 Candidate: 1 of 1 Period: 467.000 d



DV Fit Results:

Period = 467.00009 [0.00437] d
Epoch = 151.4124 [0.0090] BKJD
Rp/R* = 0.0217 [0.0232]
a/R* = 604.92 [2660.71]
b = 0.79 [2.16]
Seff = 1.86 [2.46]
Teff = 298 [98] K
Rp = 4.33 [5.56] Re
a = 1.1089 [0.8613] AU
Ag = 8487.92 [21439.87] [0.40σ]
Teffp = 4421 [2387] K [1.73σ]

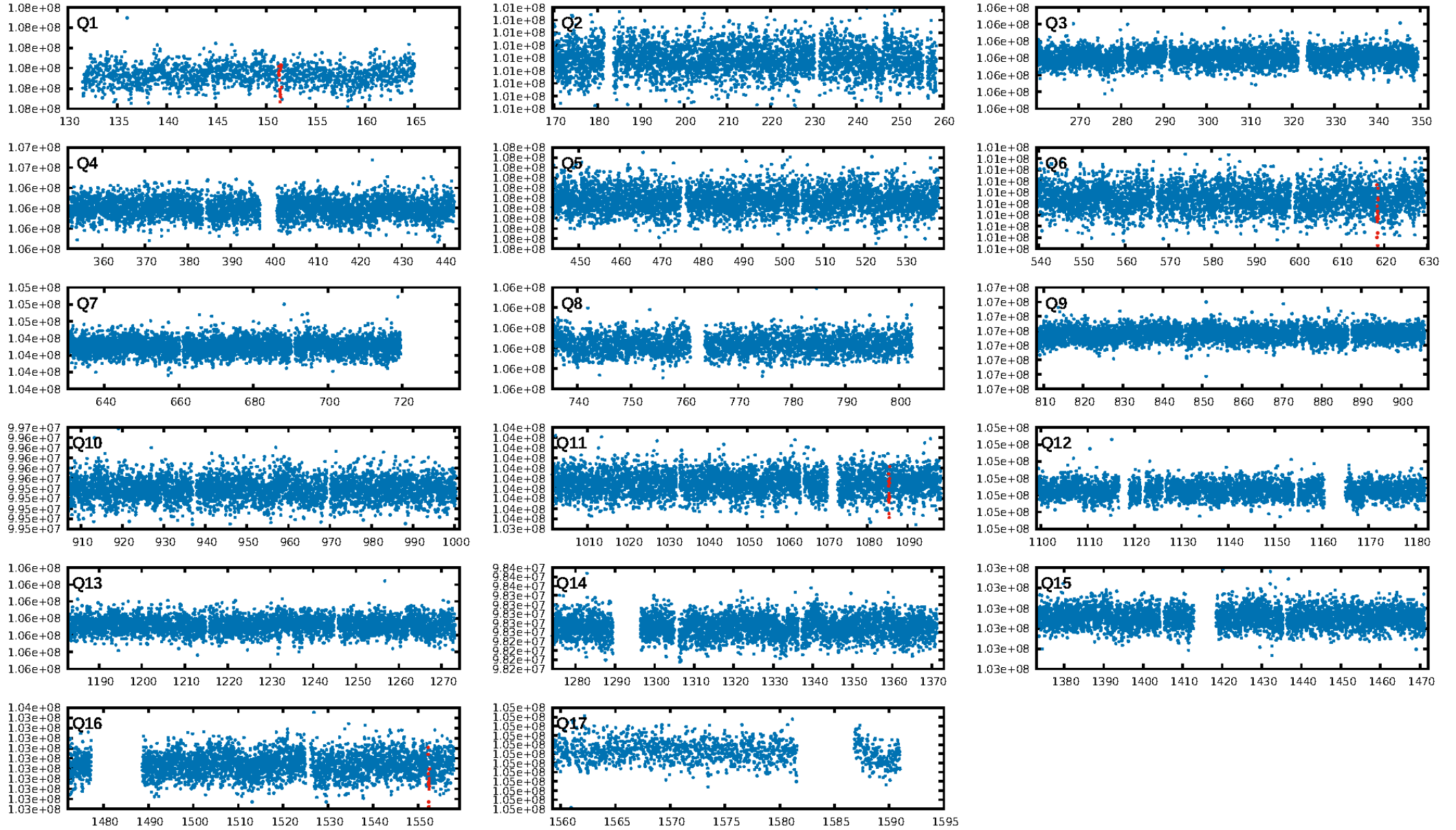
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 96.0%
ModelChiSquareGof-sig: 97.8%
Bootstrap-pfa: 2.52e-13
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -4.323
Centroid-sig: 34.1%
Centroid-so: 0.997 arcsec [1.35σ]
OotOffset-rm: 0.211 arcsec [0.78σ]
KicOffset-rm: 0.083 arcsec [0.32σ]
OotOffset-st: 1/1/1/0 [3]
KicOffset-st: 1/1/1/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [4/4]

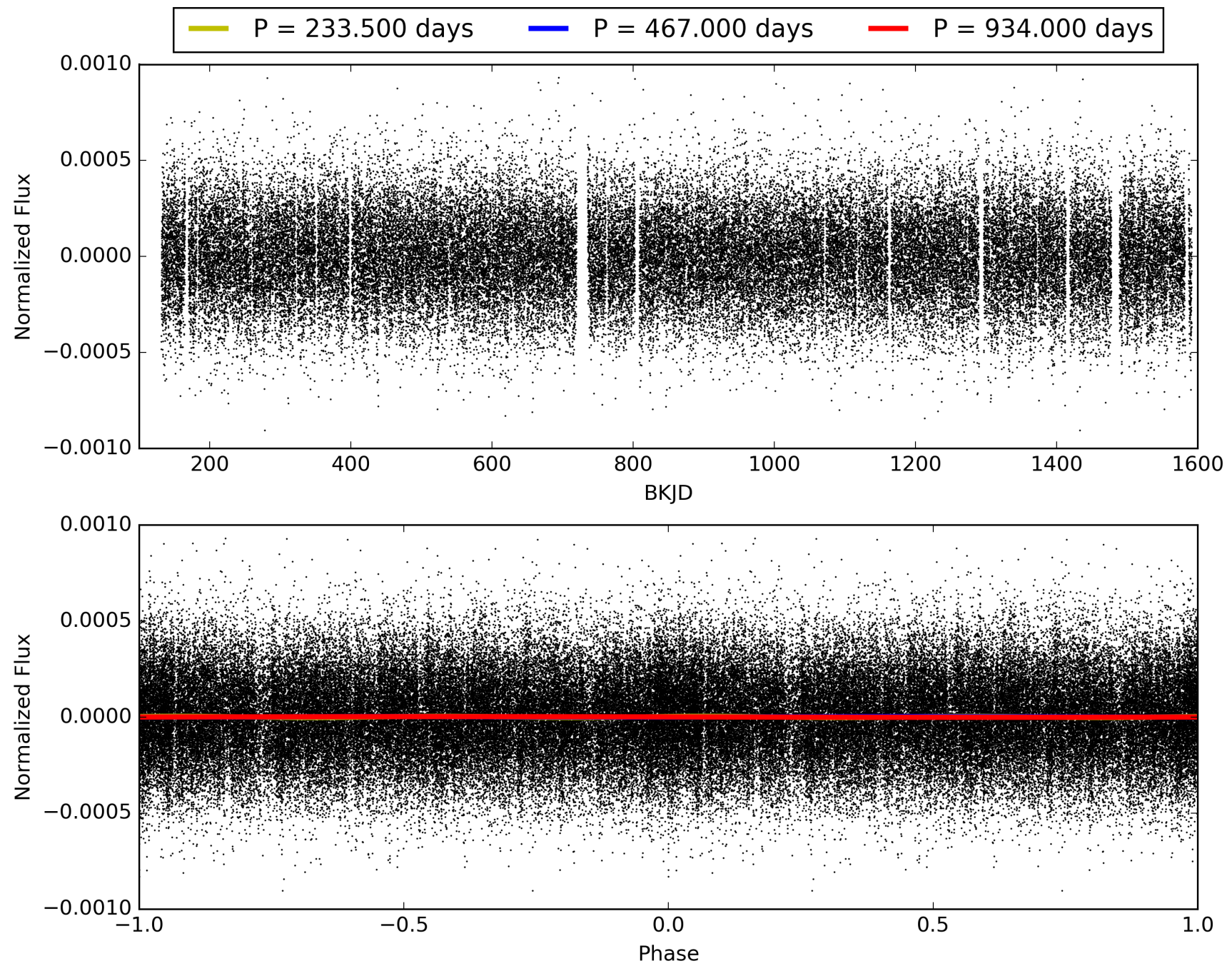
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 19:55:33 Z

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

TCE 011141326-01, PDC Light Curves

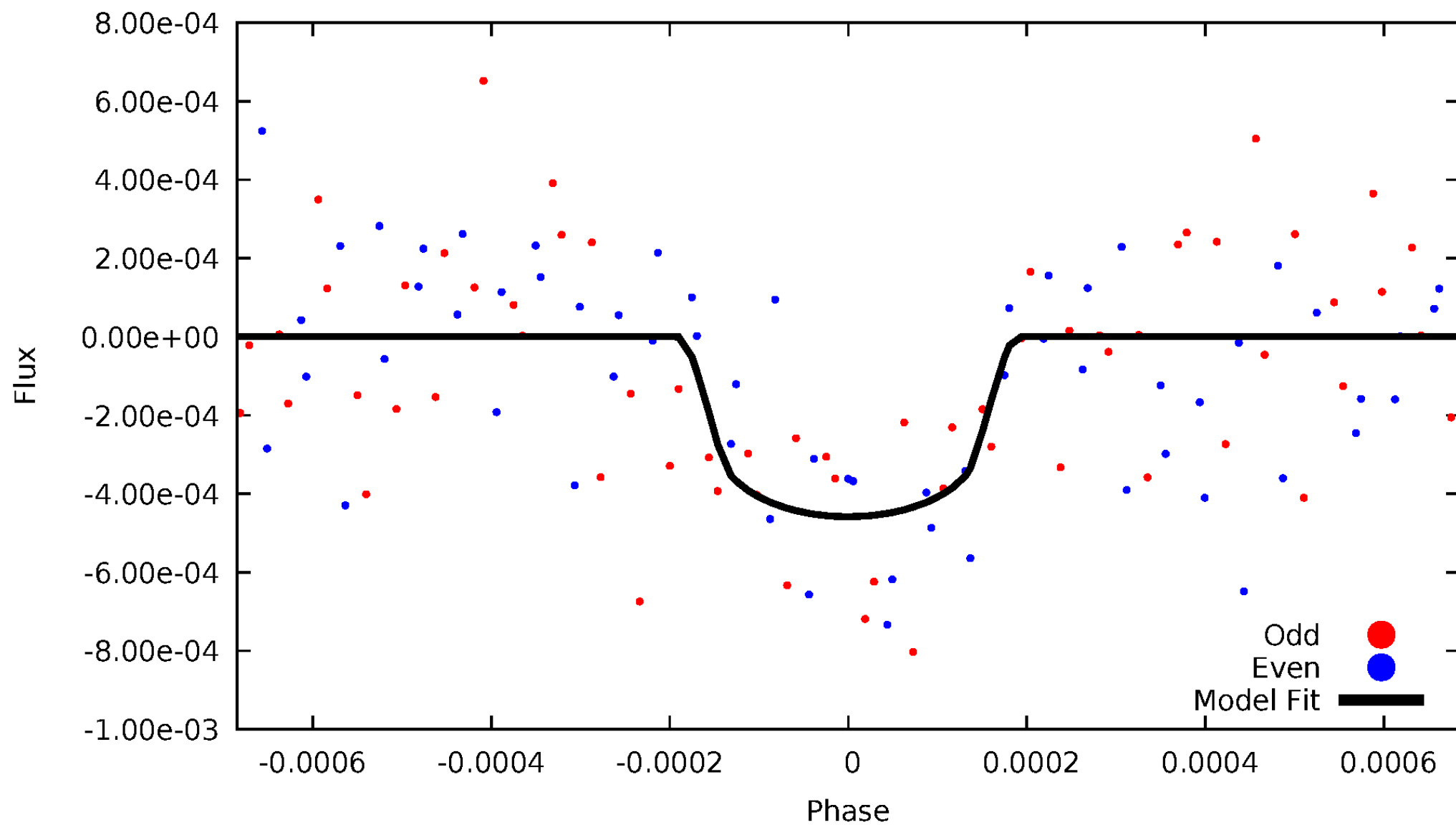


TCE 011141326-01



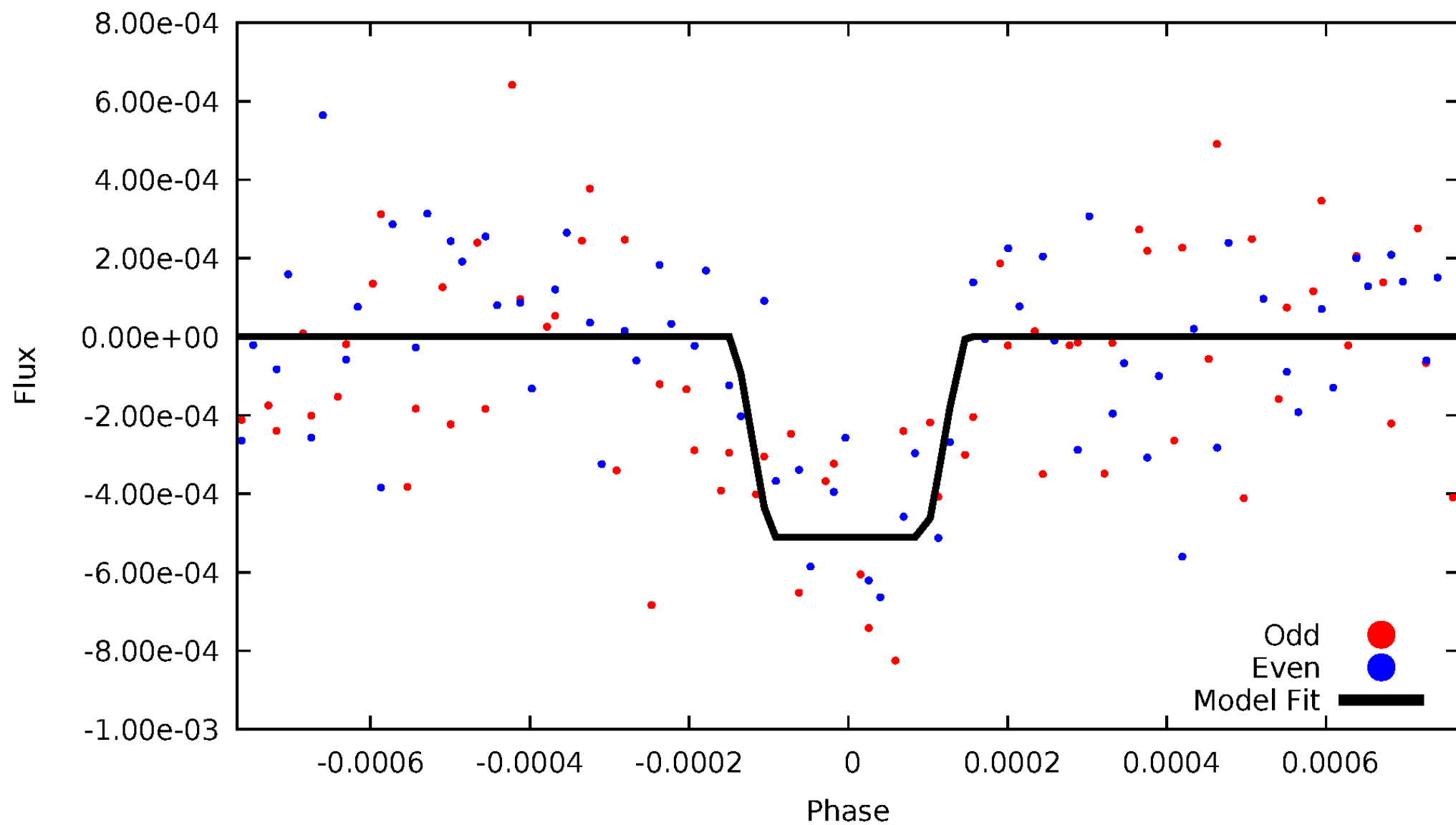
DV Odd/Even

TCE 011141326-01

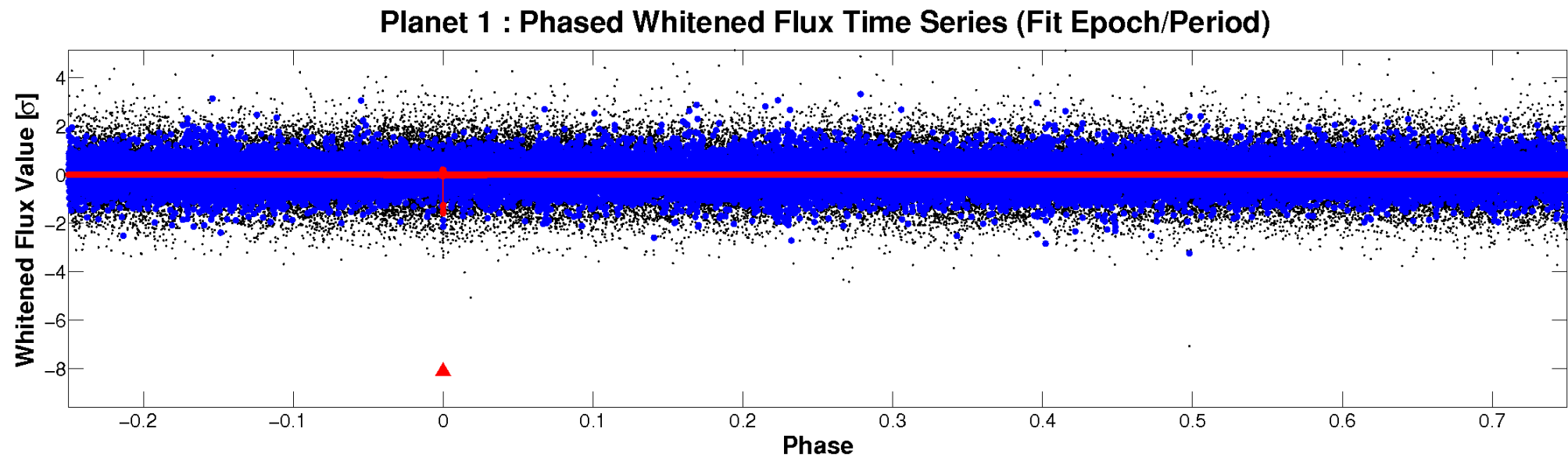
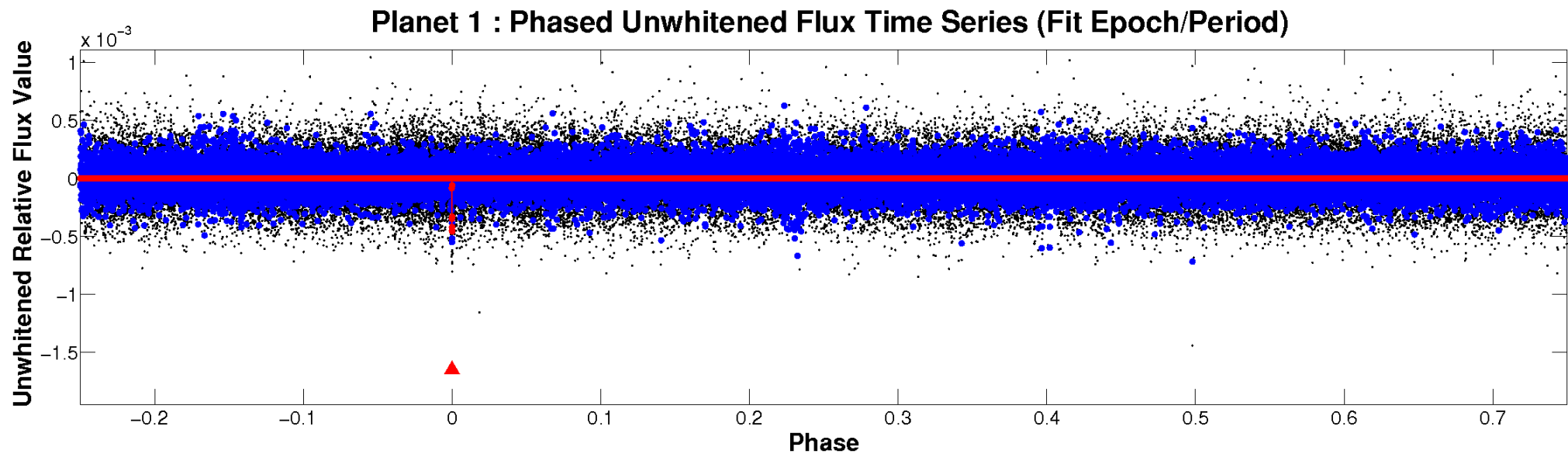


ALT Odd/Even

TCE 011141326-01

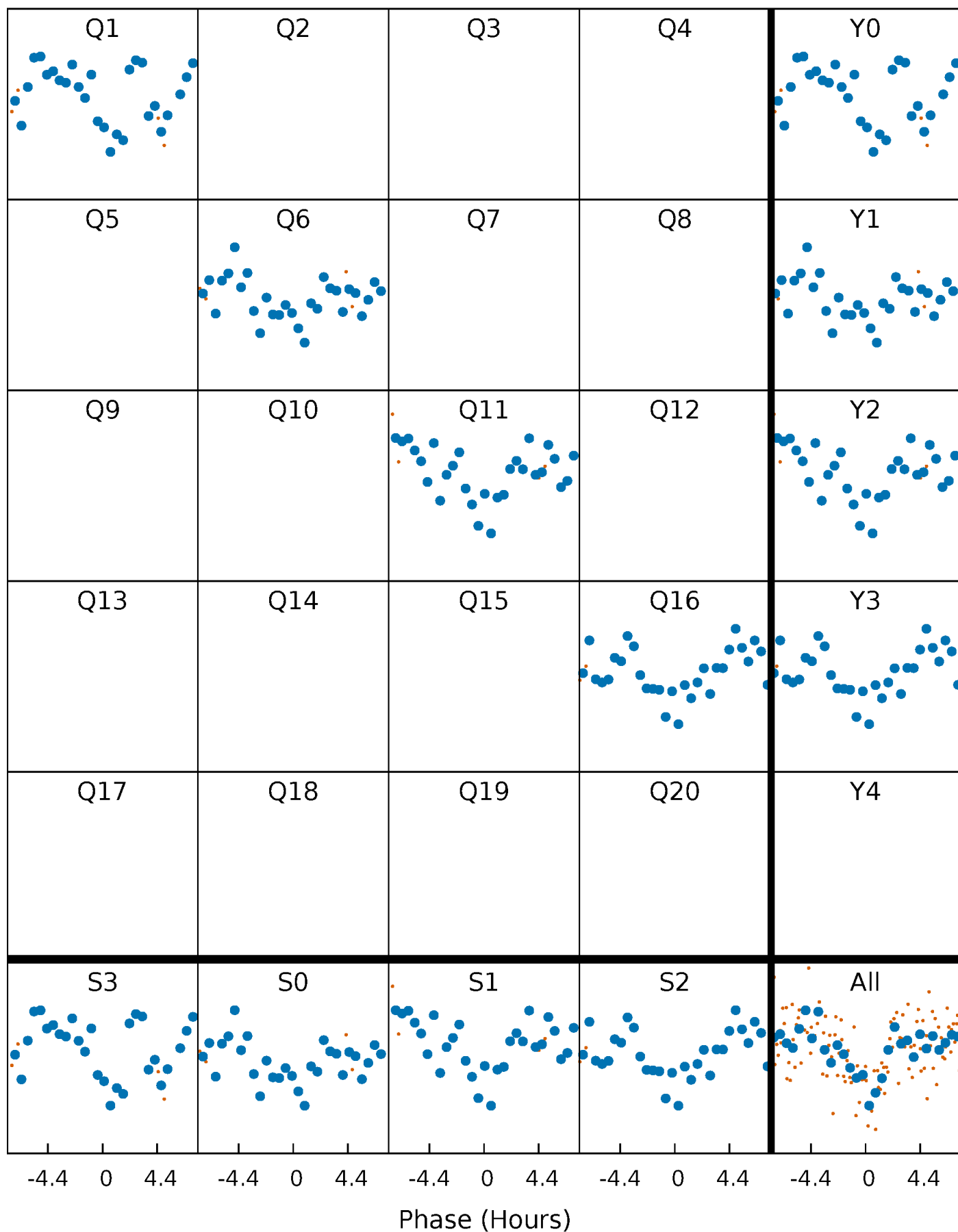


Non-Whitened Vs. Whitened Light Curve



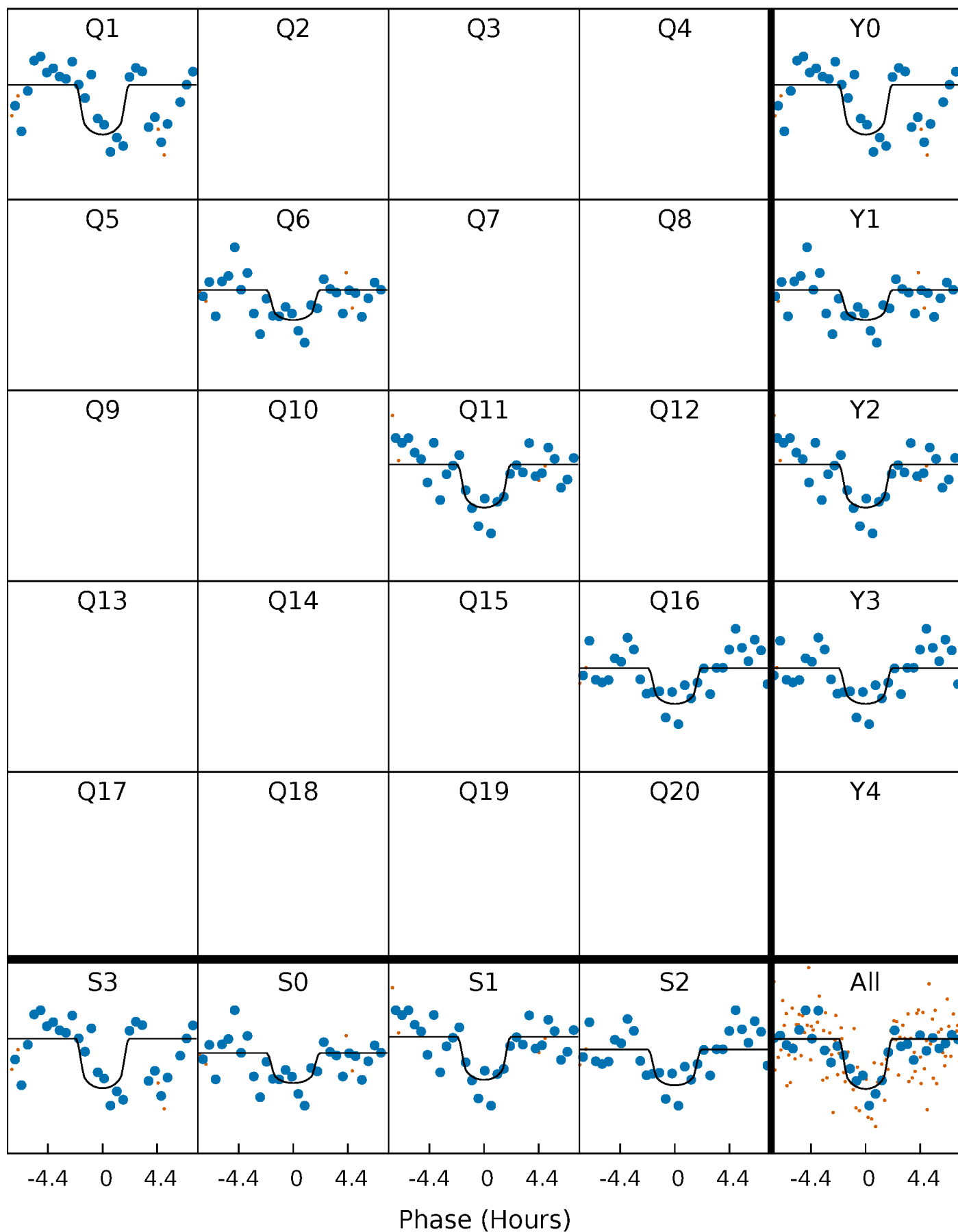
PDC Quarter-Phased Transit Curves

TCE 011141326-01 P=467.000094 Days $T_0=151.412388$ (BKJD)



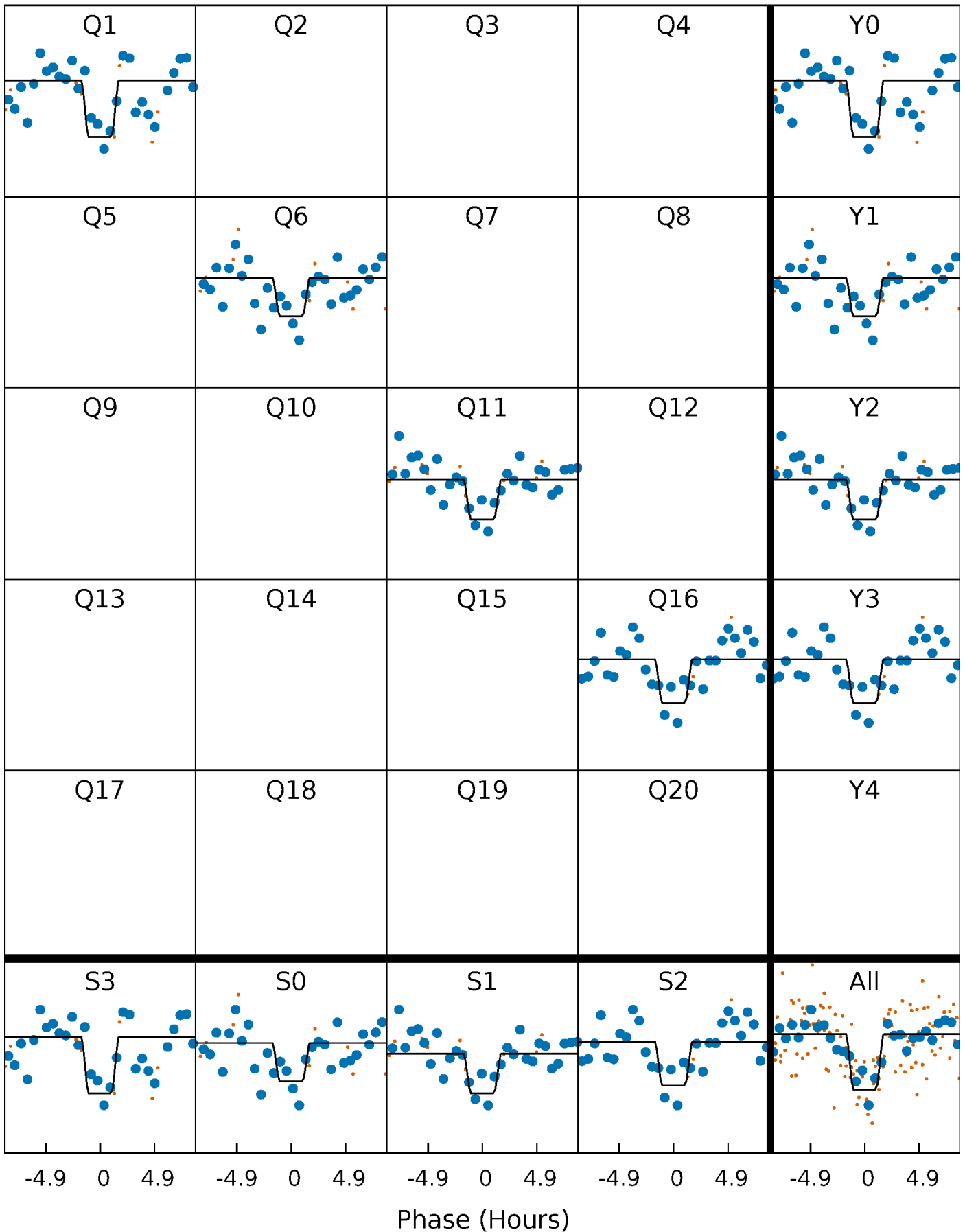
DV Quarter-Phased Transit Curves

TCE 011141326-01 P=467.000094 Days $T_0=151.412388$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

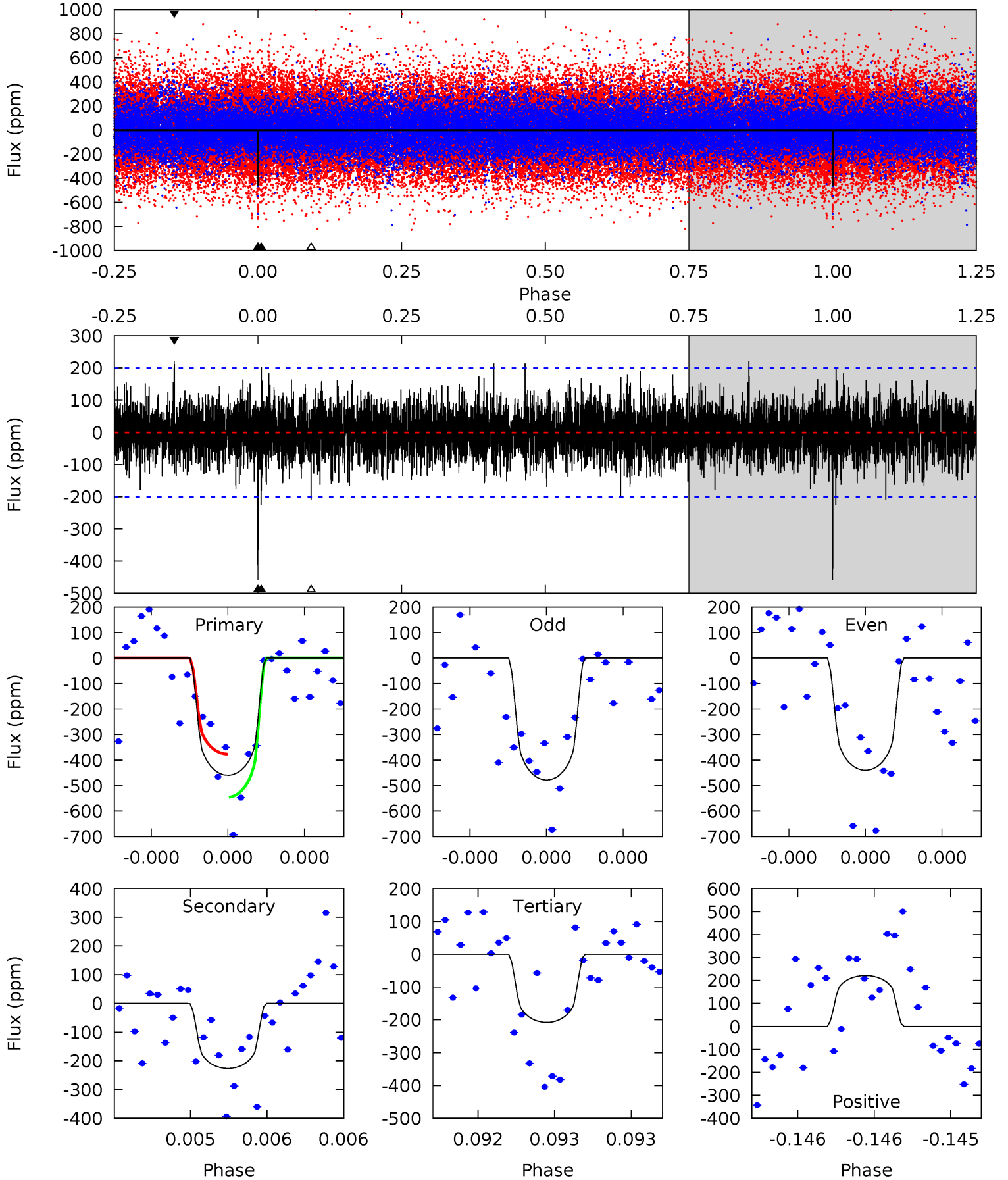
TCE 011141326-01 P=466.995391 Days $T_0=151.423410$ (BKJD)



DV Model-Shift Uniqueness Test

011141326-01, P = 467.000094 Days, E = 151.412388 Days

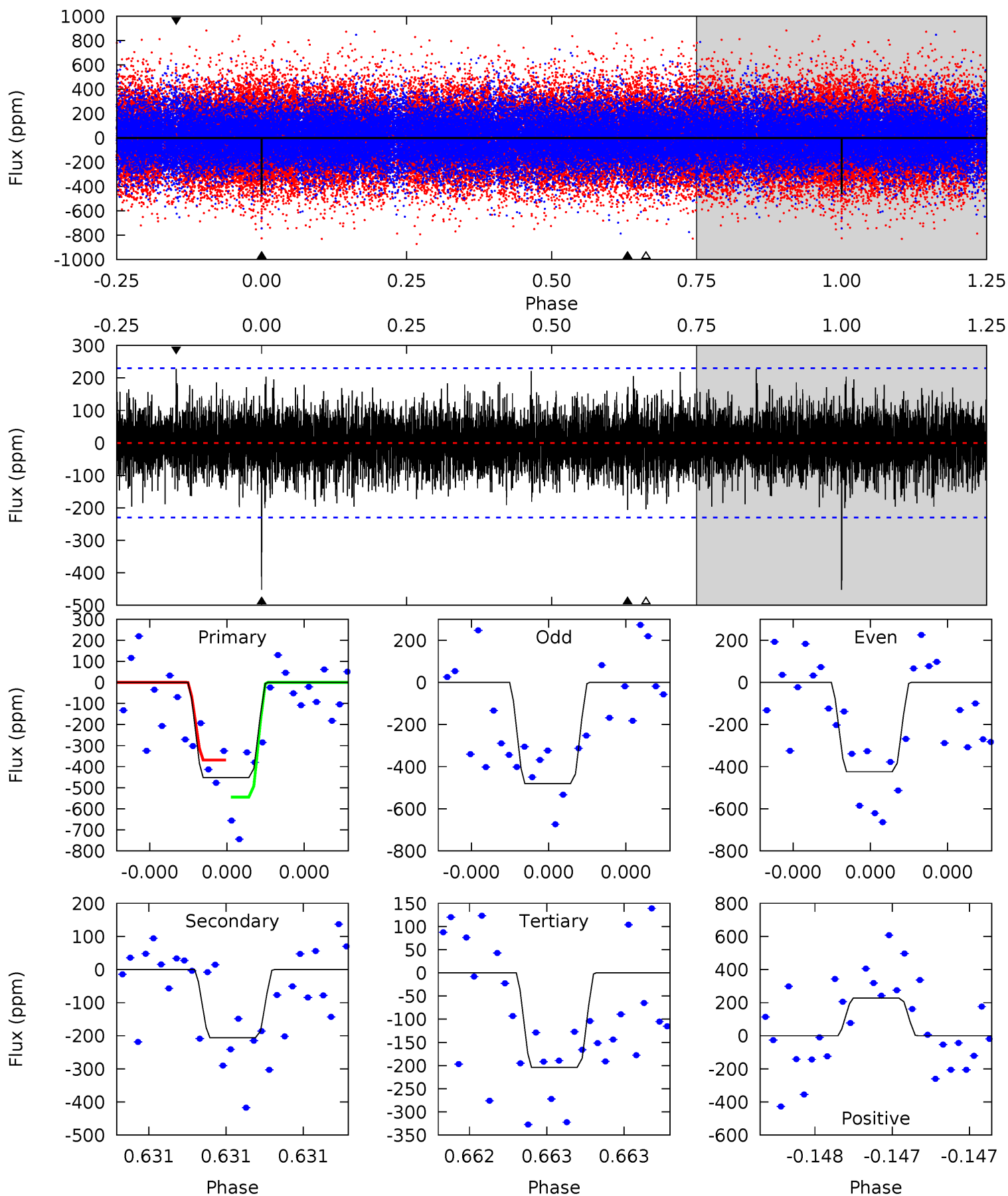
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	6.38	5.86	6.24	5.62	3.55	1.55	7.08	6.70	0.52	0.14	0.54	0.96	0.33	2.38



Alt Model-Shift Uniqueness Test

011141326-01, P = 466.995391 Days, E = 151.423410 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.2	5.07	5.03	5.60	5.66	3.62	1.45	6.12	5.55	0.04	-0.53	0.69	0.98	0.33	2.16



Stellar Parameters For KIC 011141326

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5262^{+158}_{-142}	$3.836^{+0.798}_{-0.342}$	$-0.460^{+0.300}_{-0.250}$	$1.826^{+1.308}_{-1.070}$	$0.834^{+0.202}_{-0.135}$	$0.193^{+2.934}_{-0.125}$
	+3%/-3%	+21%/-9%	+65%/-54%	+72%/-59%	+24%/-16%	+1521%/-65%
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 011141326-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-226 ± 36	$5.02^{+5.09}_{-3.48}$	407^{+70}_{-74}	4119^{+2541}_{-724}	6229^{+57557}_{-4683}
Alt.	-206 ± 41	$4.96^{+5.06}_{-3.40}$	404^{+69}_{-66}	4081^{+2403}_{-739}	5755^{+53472}_{-4329}

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 $A_{obs} \gg 1.0$

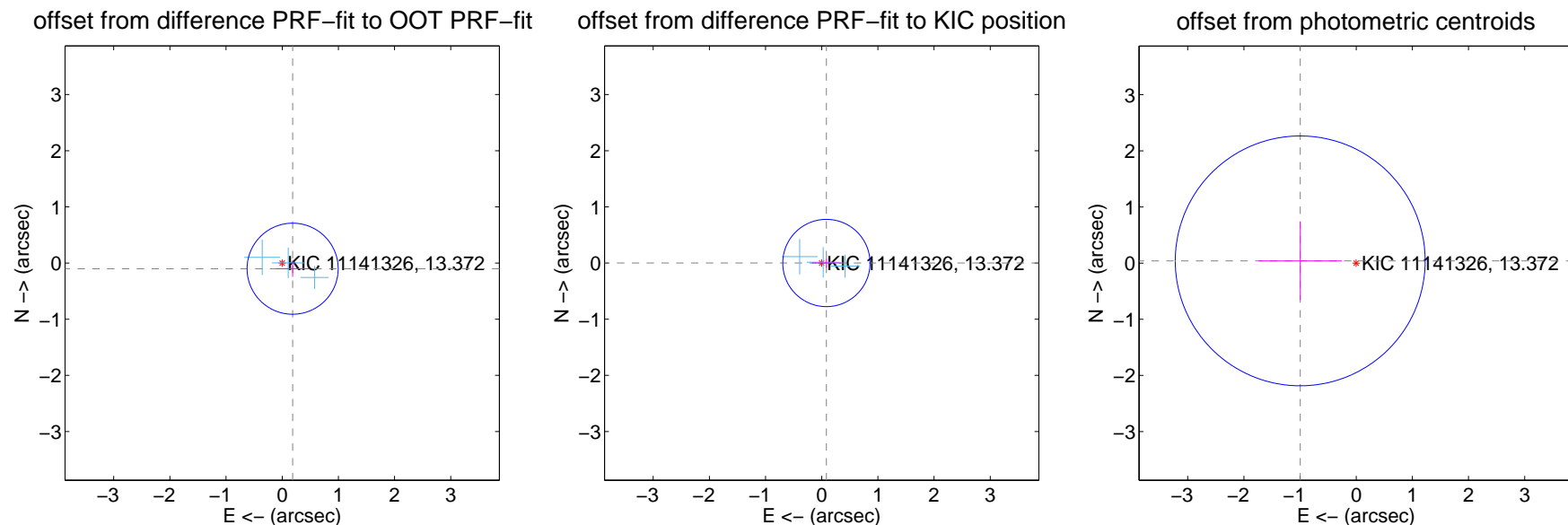
DV Centroid Data

Supplemental centroid analysis for 011141326-01. Kepler magnitude: 13.37. Transit SNR 7.71

There are 3 quarters with good PRF difference image offsets

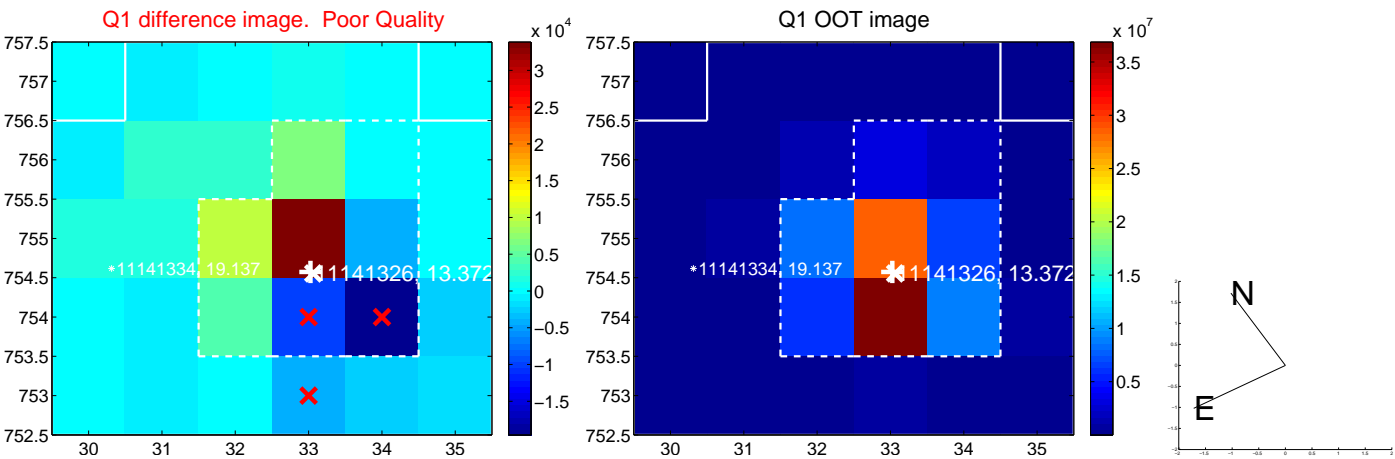
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.211 ± 0.270	0.78	-0.185 ± 0.298	-0.101 ± 0.143
PRF-fit source offset from KIC position	0.083 ± 0.259	0.32	-0.083 ± 0.259	0.001 ± 0.084
photometric centroid source offset	1.00 ± 0.74	1.35	1.00 ± 0.74	0.04 ± 0.70



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.



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

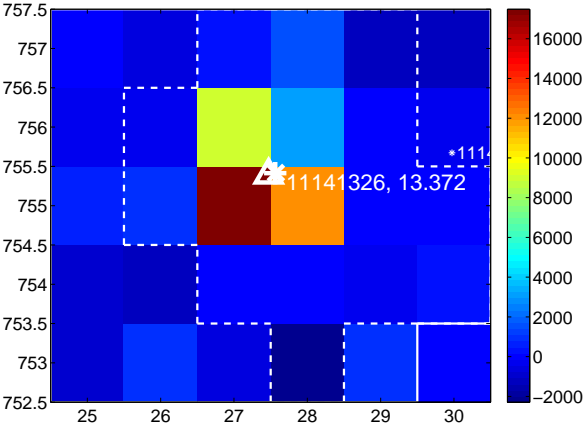
Q5 no difference image



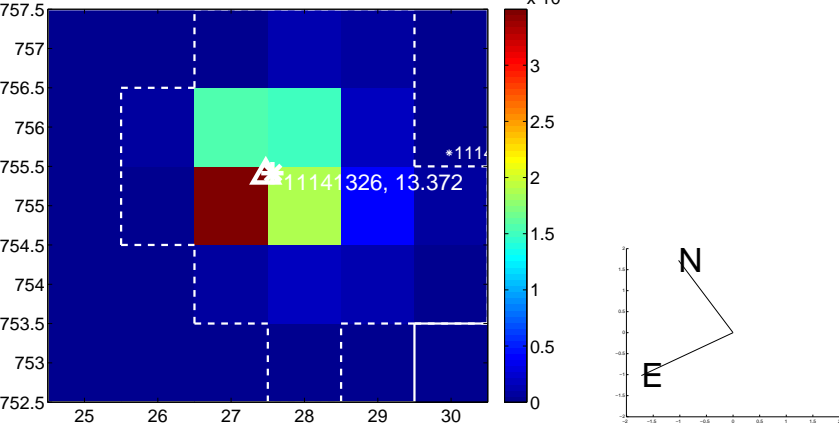
Q5 no OOT image



Q6 difference image



Q6 OOT image



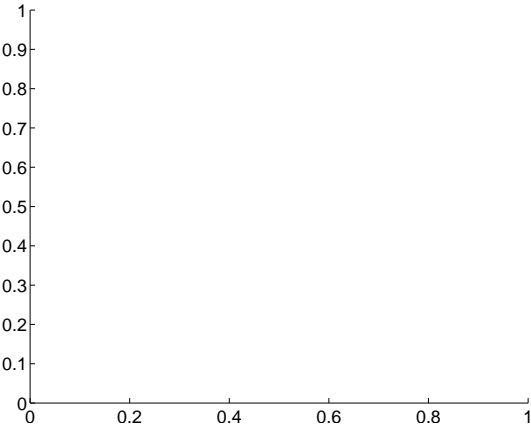
Q7 no difference image



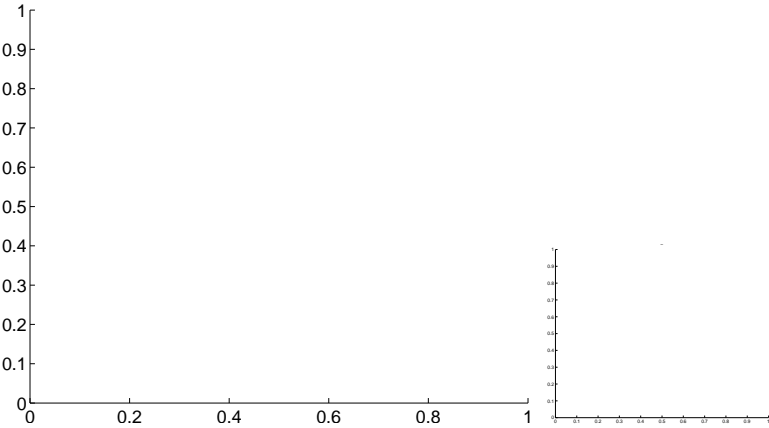
Q7 no OOT image



Q8 no difference image



Q8 no OOT image



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

Q9 no difference image



Q9 no OOT image



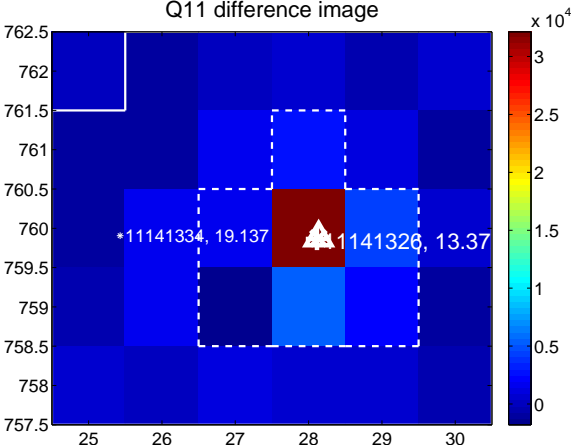
Q10 no difference image



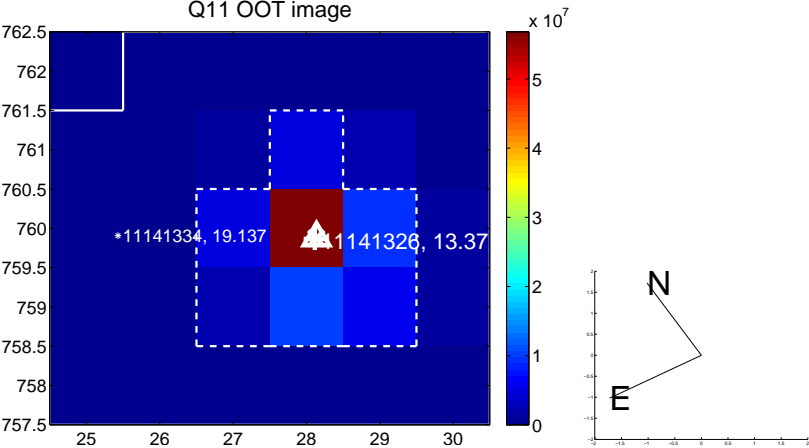
Q10 no OOT image



Q11 difference image



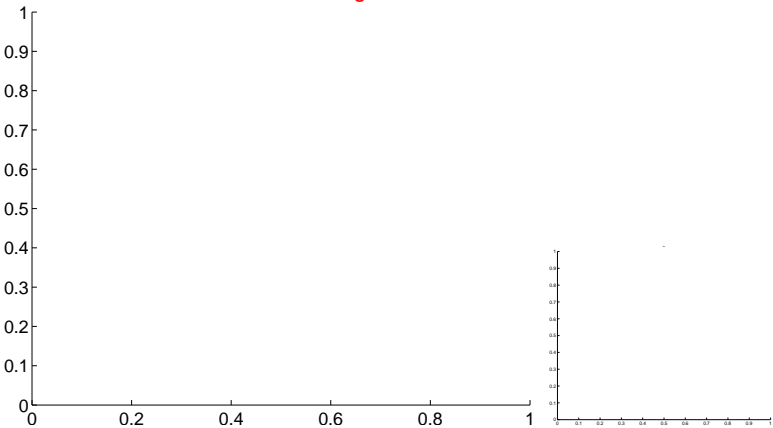
Q11 OOT image



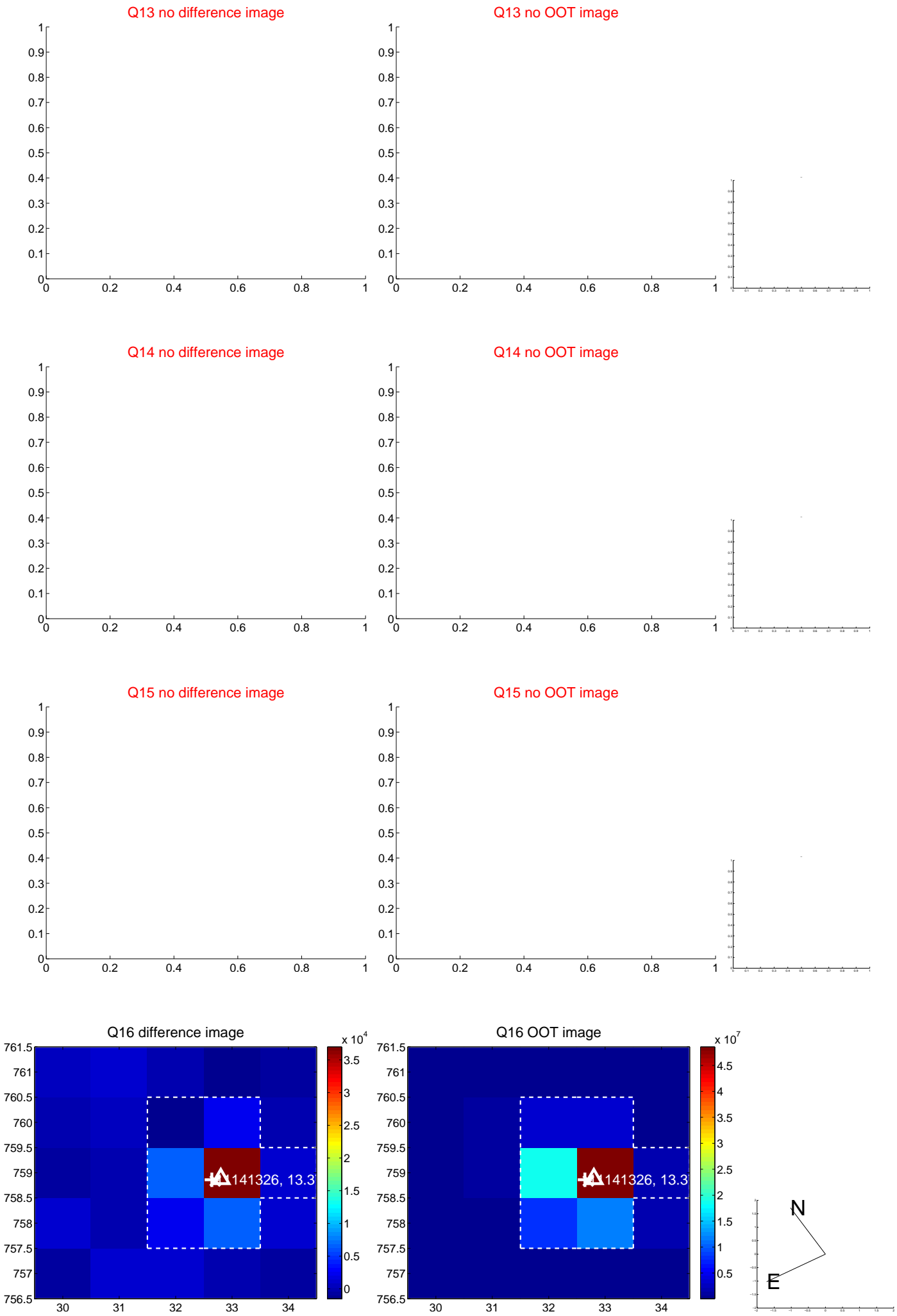
Q12 no difference image



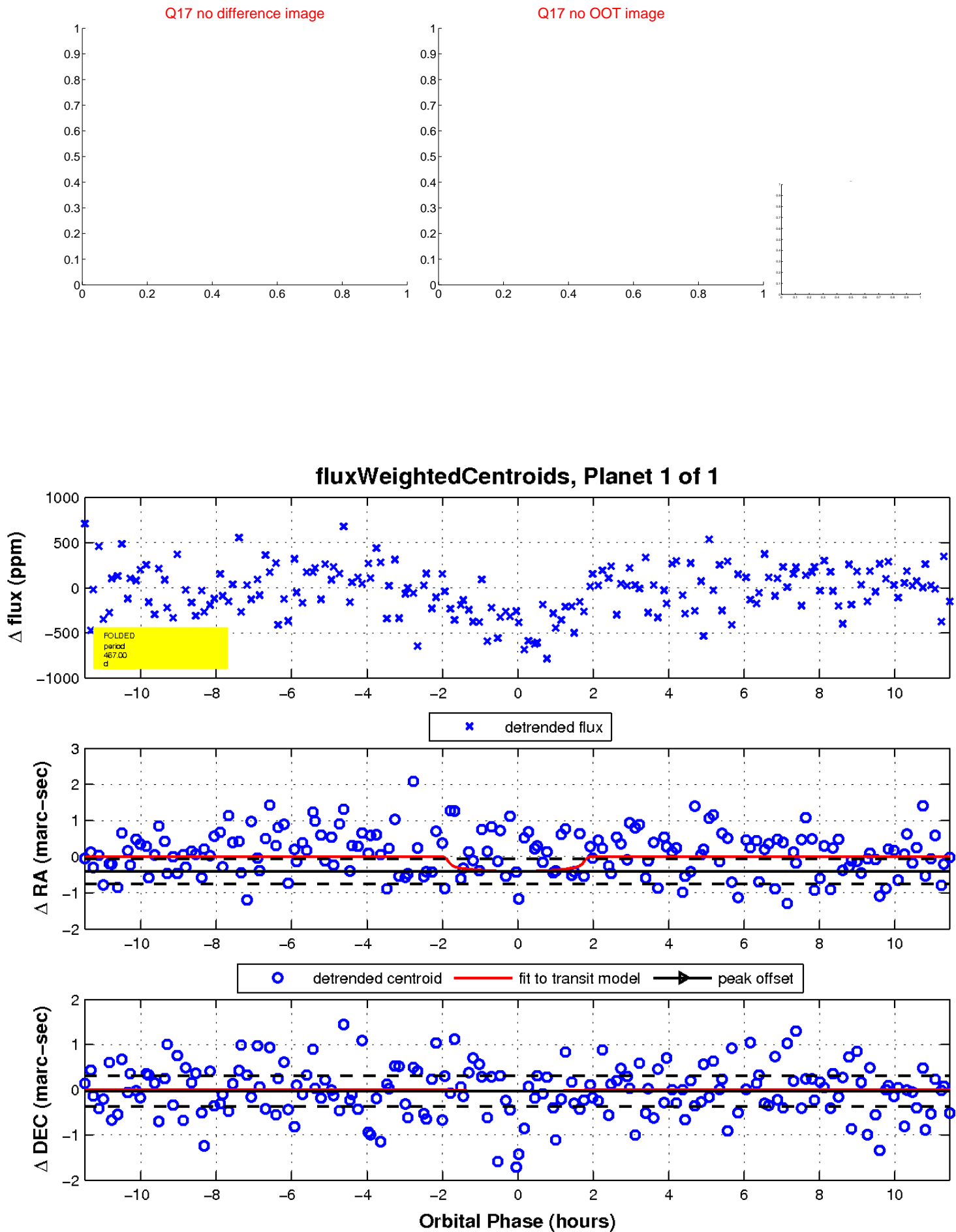
Q12 no OOT image



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

Declination

