

KIC 002697199

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})
002697199-01	OBS	No	332.432815	281.731154	287.8	25.507	9.3	5.7	0.89	5912	1.68	0.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
002697199-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_ALT—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.

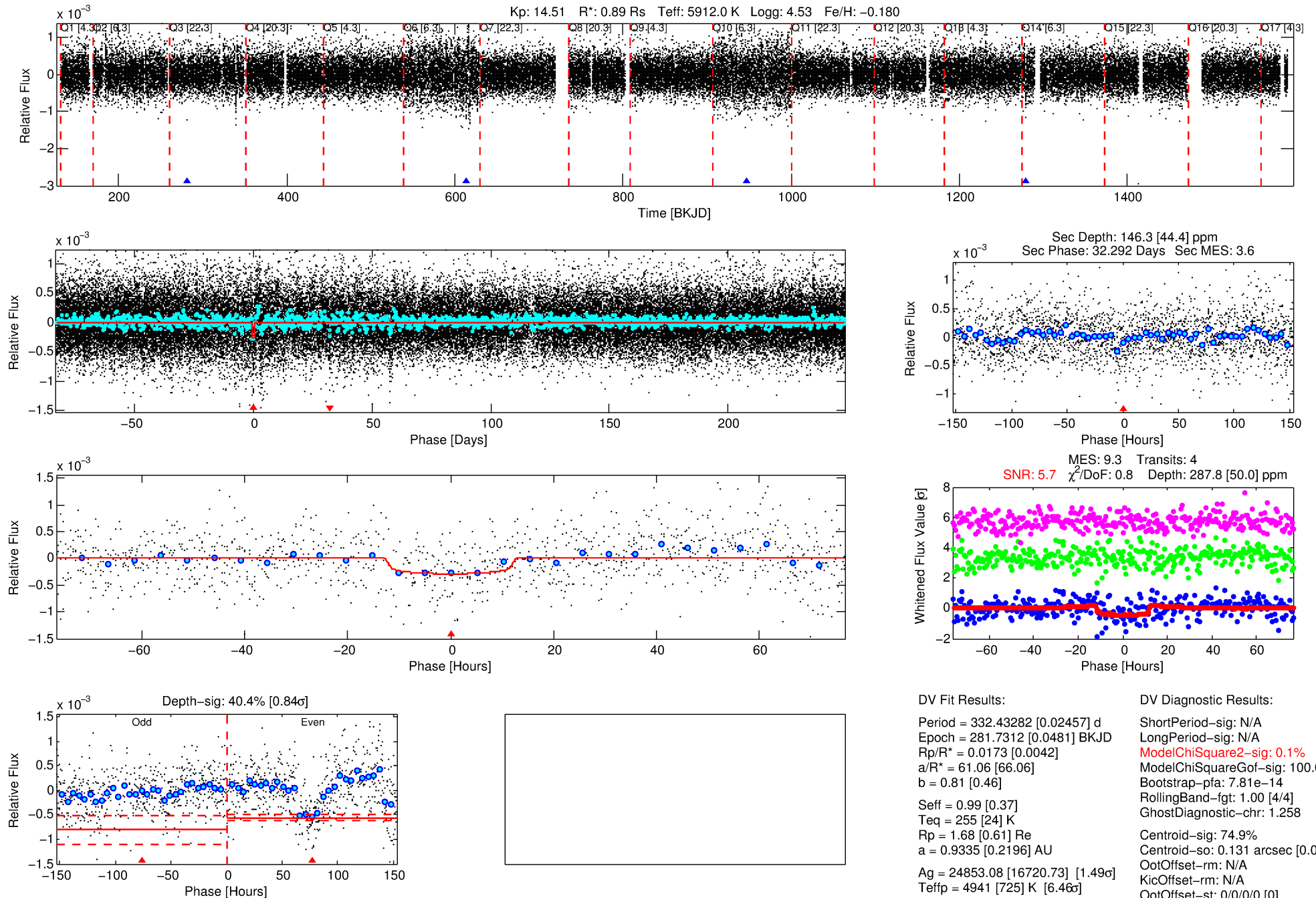
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 002697199-01

No Significant Match Found

DV One-Page Summary

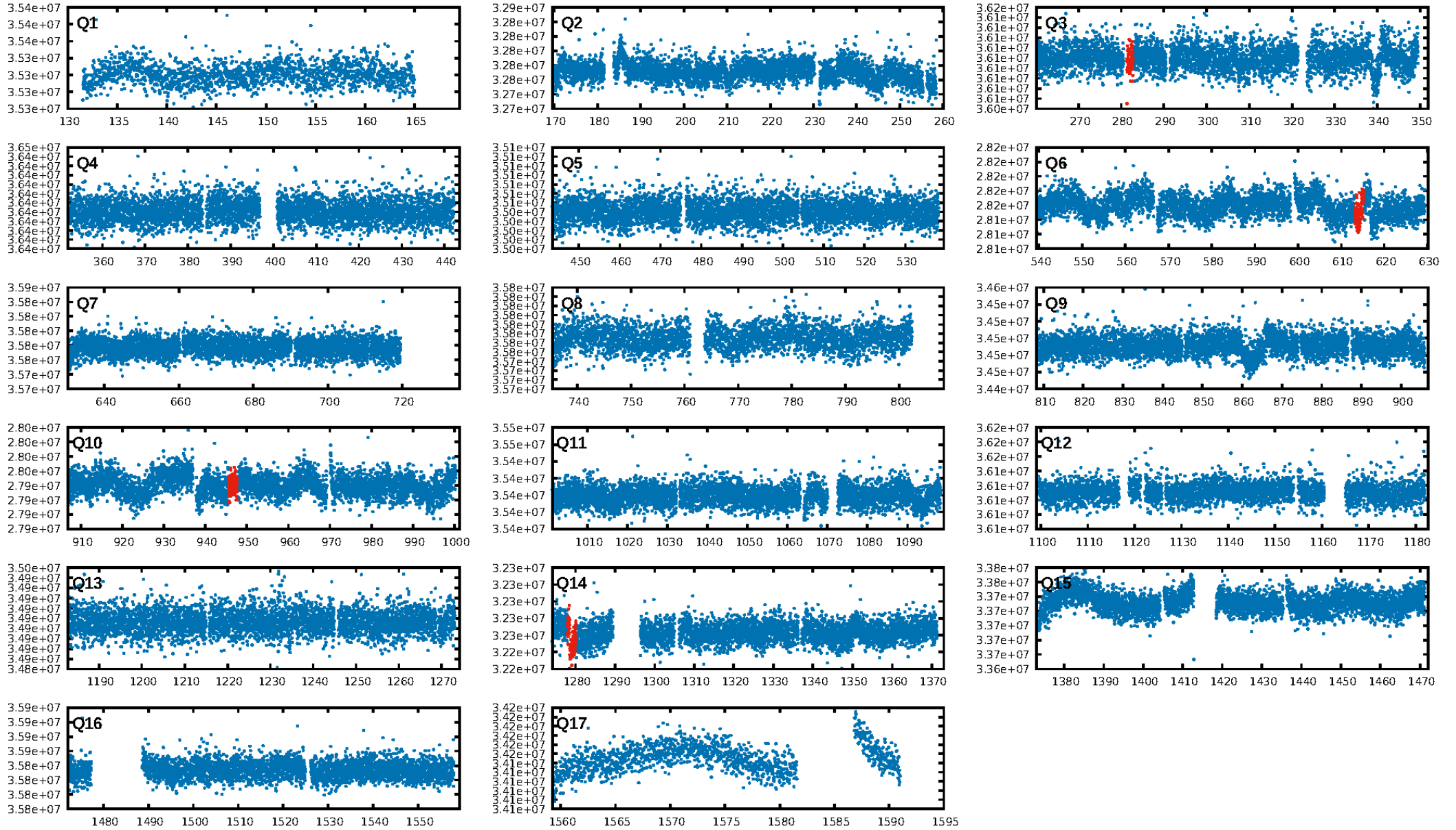
KIC: 2697199 Candidate: 1 of 1 Period: 332.433 d



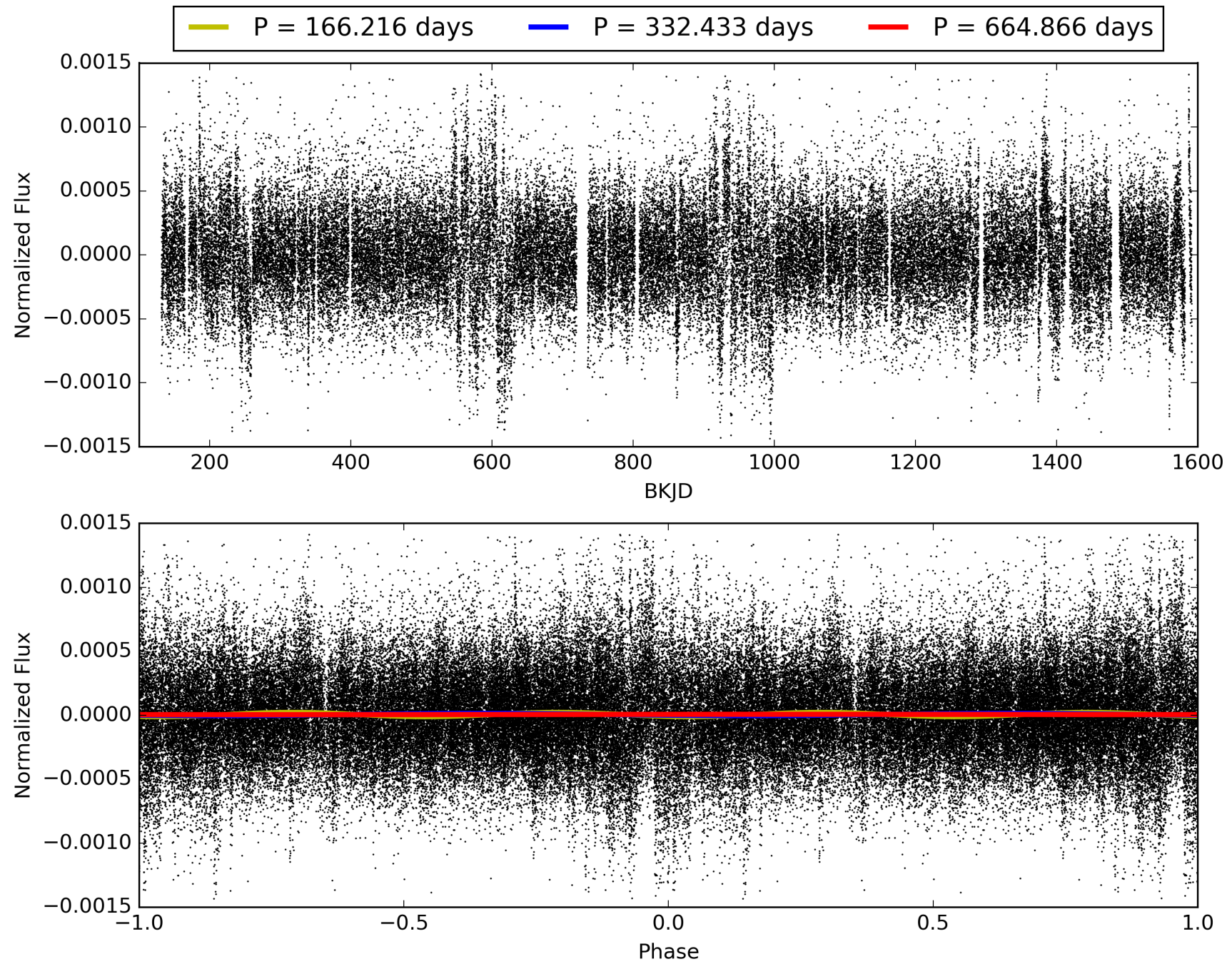
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:56:34 Z

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

TCE 002697199-01, PDC Light Curves

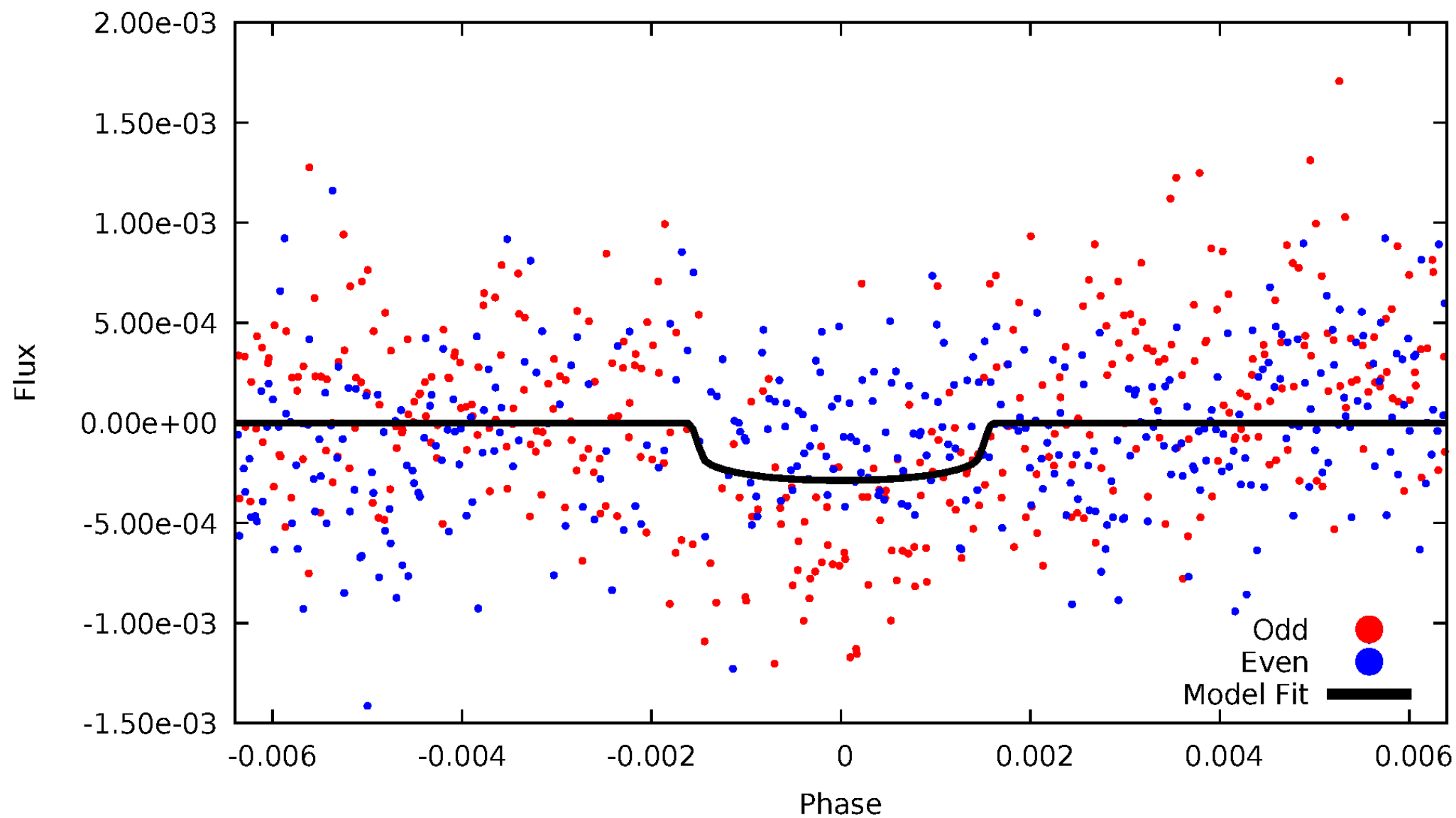


TCE 002697199-01



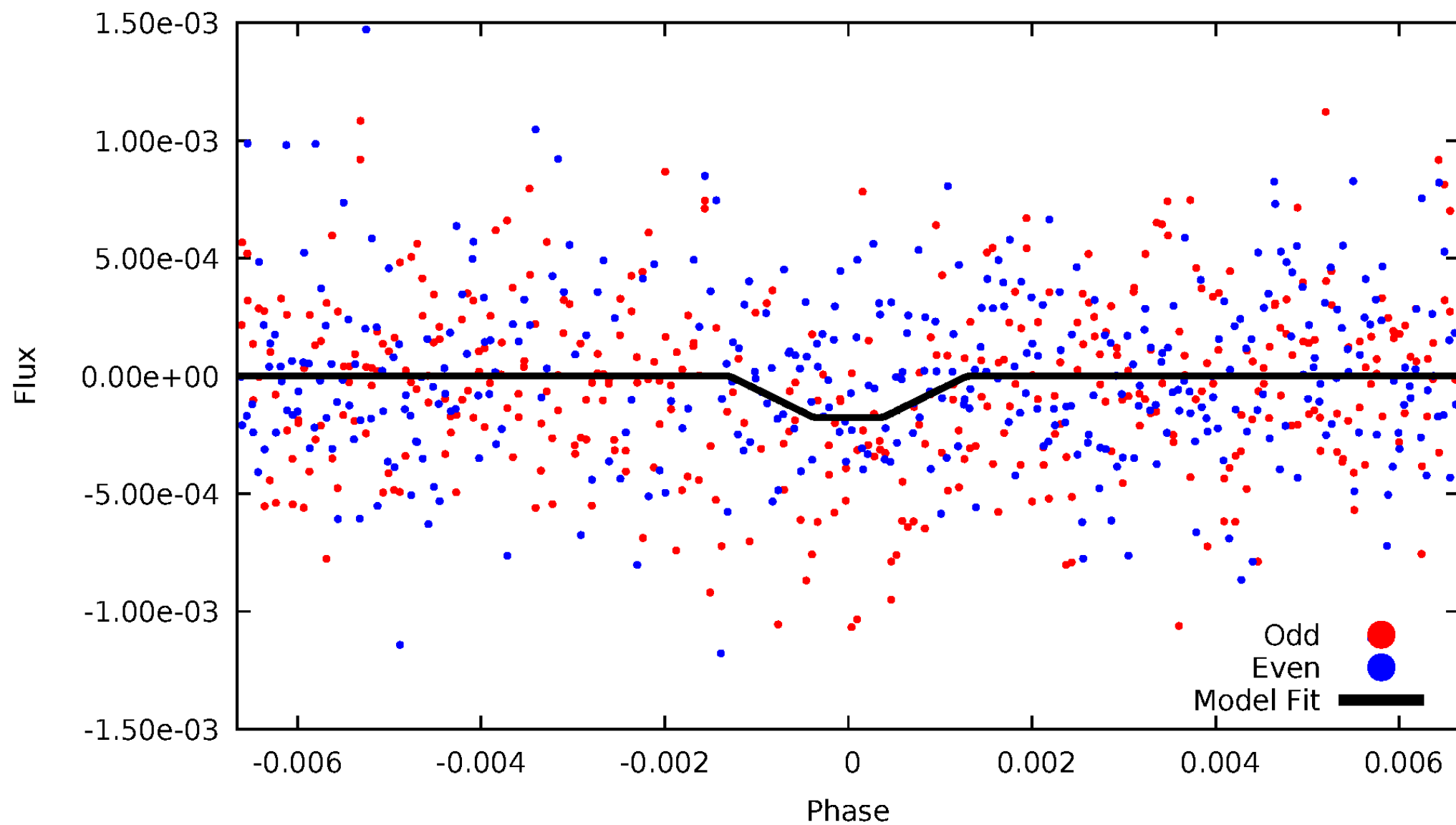
DV Odd/Even

TCE 002697199-01



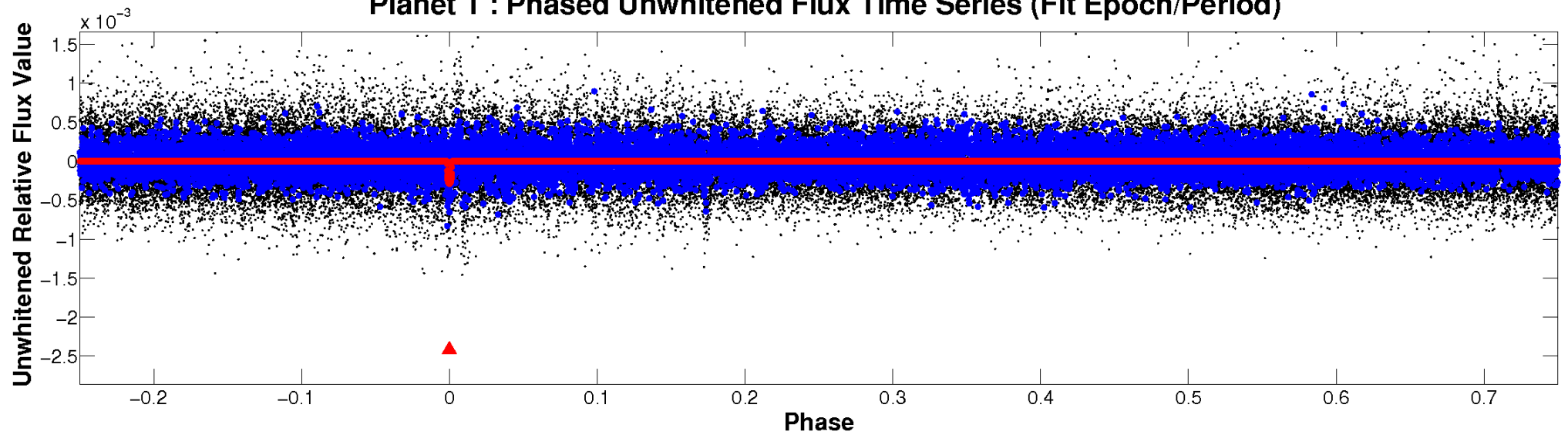
ALT Odd/Even

TCE 002697199-01

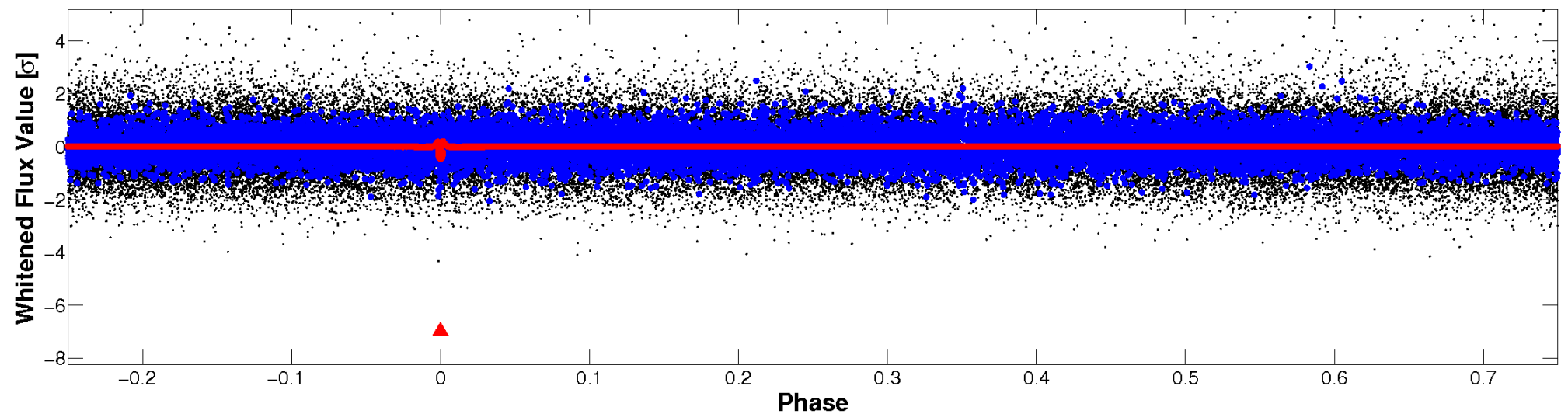


Non-Whitened Vs. Whitened Light Curve

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



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



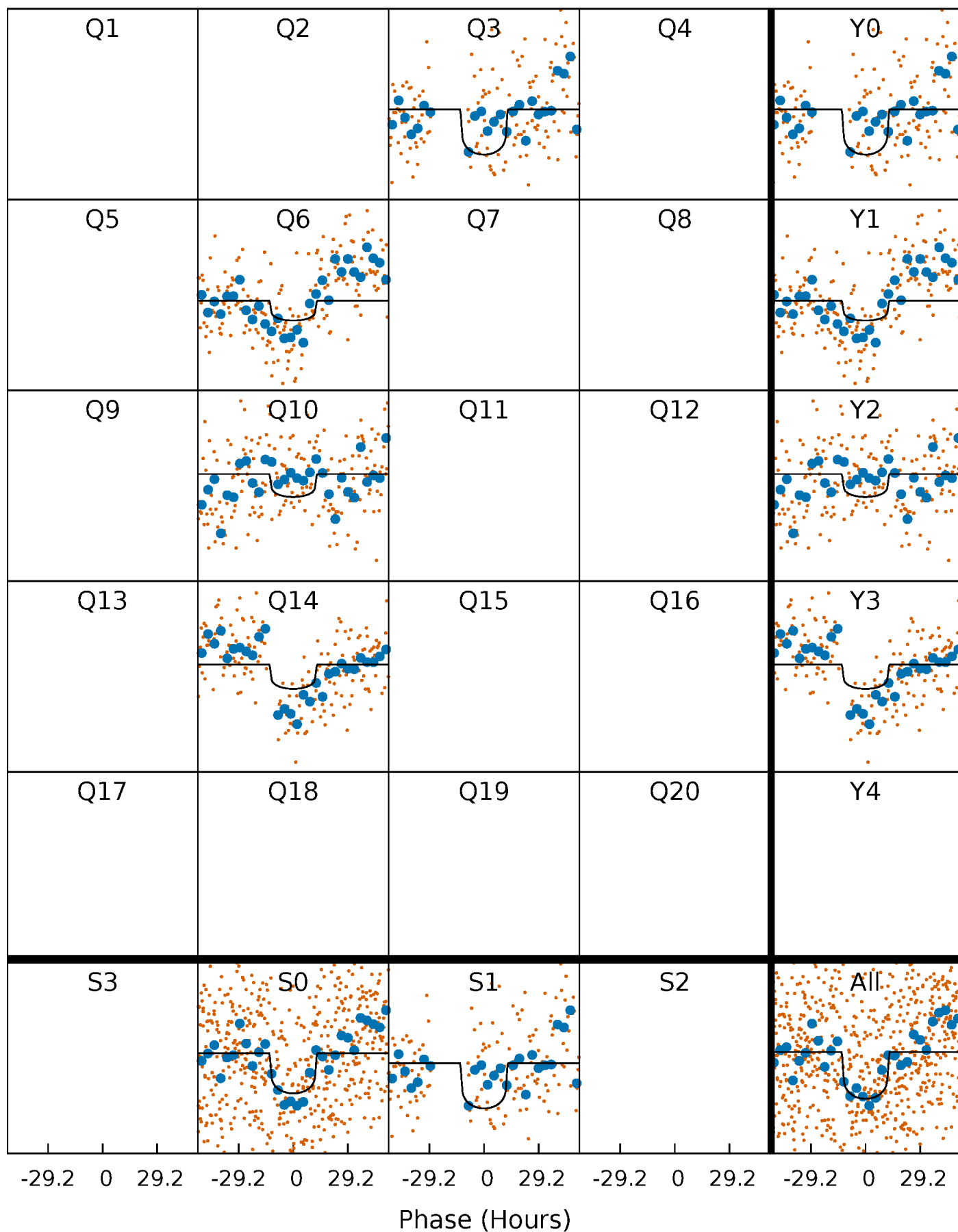
PDC Quarter-Phased Transit Curves

TCE 002697199-01 P=332.432815 Days $T_0=281.731154$ (BKJD)



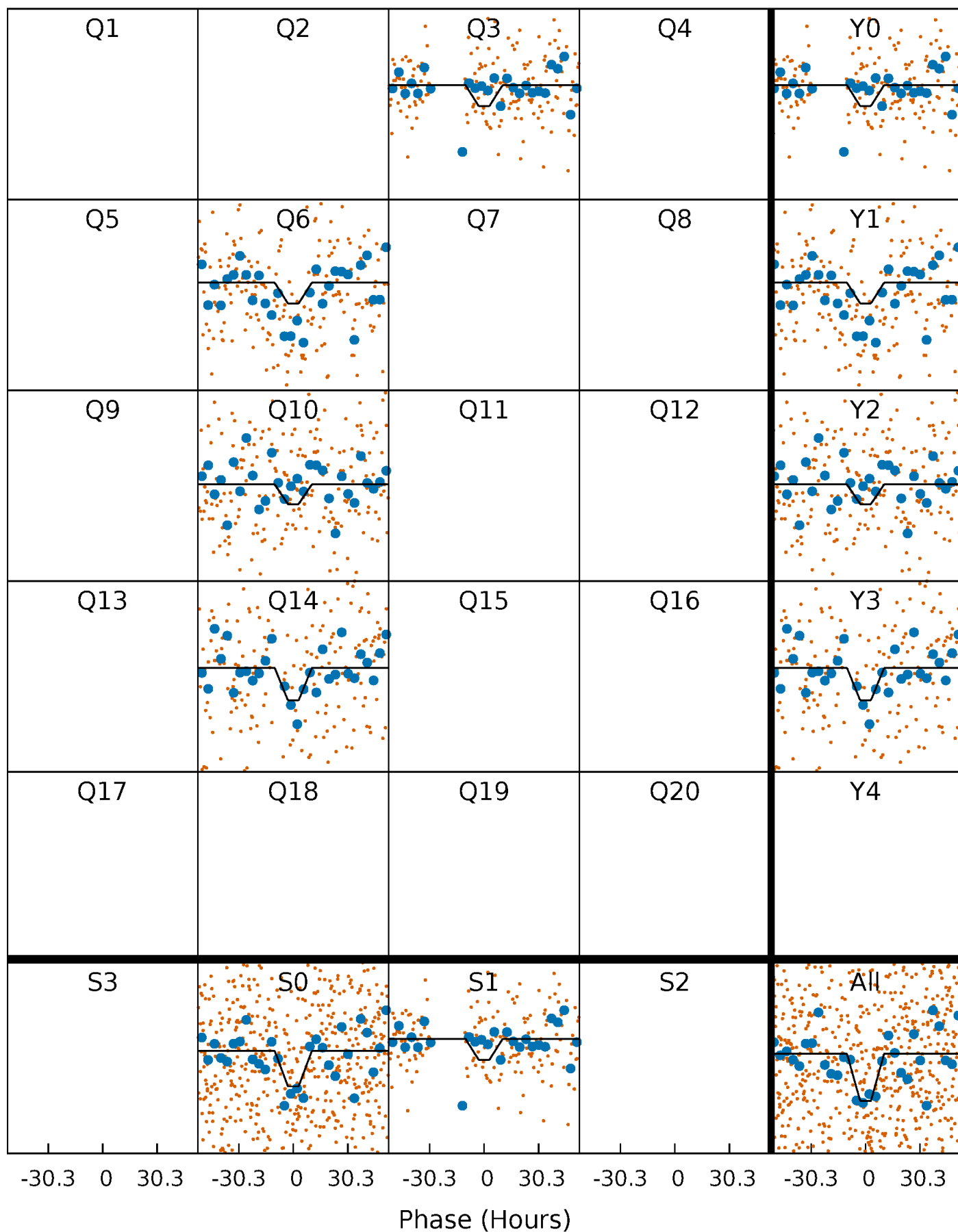
DV Quarter-Phased Transit Curves

TCE 002697199-01 P=332.432815 Days $T_0=281.731154$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

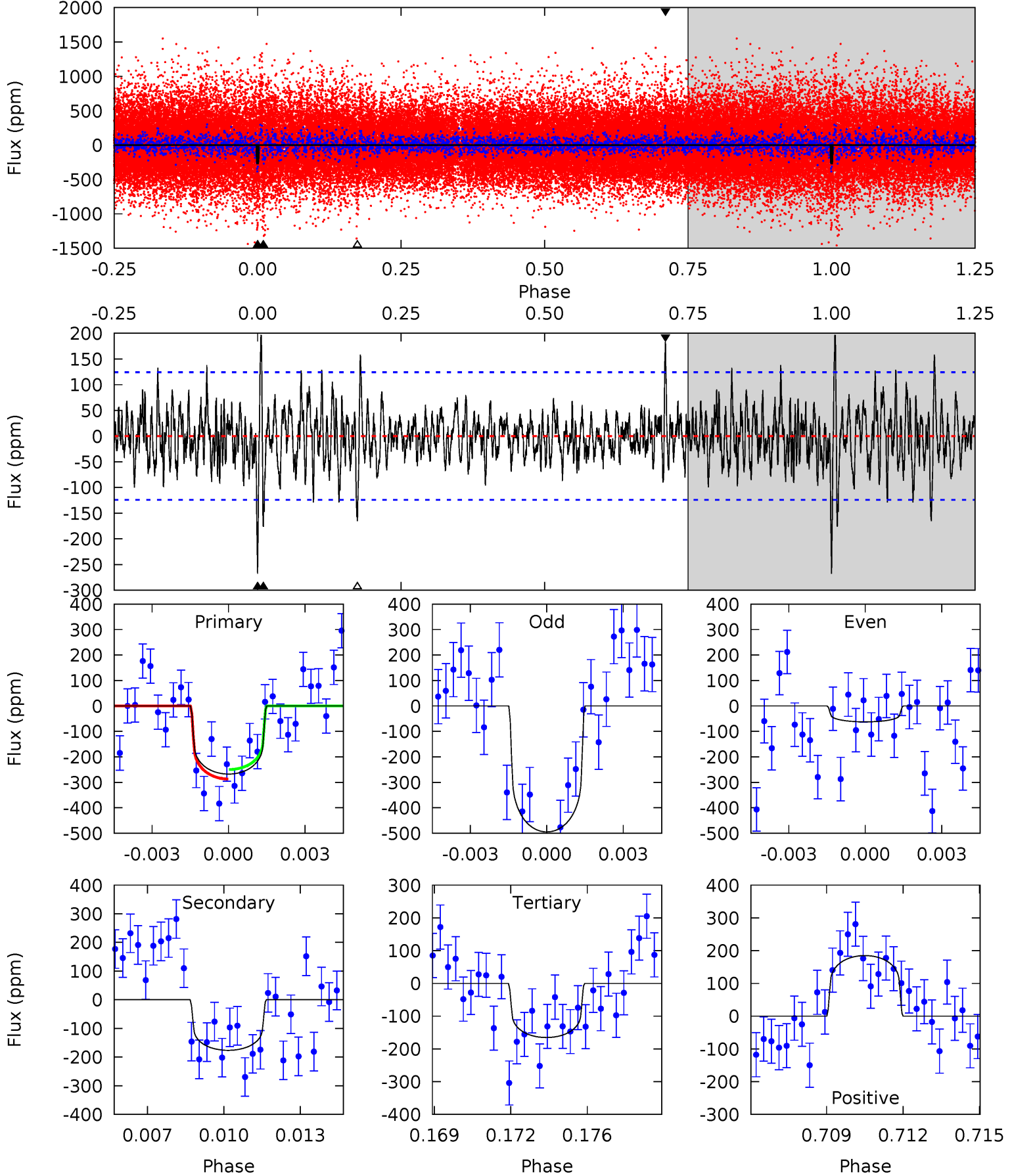
TCE 002697199-01 P=332.372287 Days $T_0=281.813171$ (BKJD)



DV Model-Shift Uniqueness Test

002697199-01, P = 332.432815 Days, E = 281.731154 Days

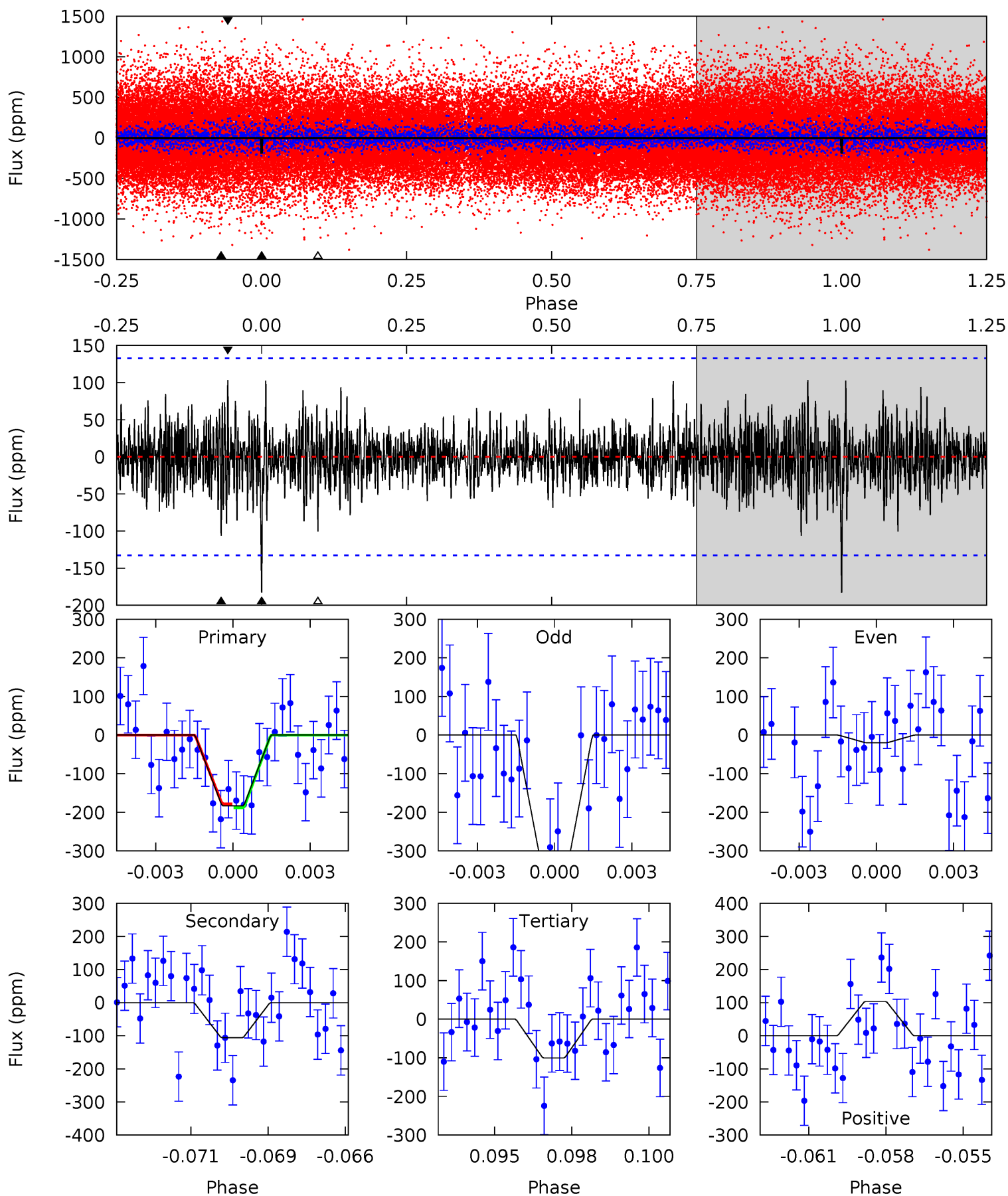
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.3	7.45	6.98	7.81	5.24	2.94	1.73	4.32	3.49	0.47	-0.36	9.13	1.01	0.42	0.78



Alt Model-Shift Uniqueness Test

002697199-01, P = 332.372287 Days, E = 281.813171 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.27	4.22	3.99	4.11	5.28	3.01	1.09	3.29	3.17	0.23	0.11	6.91	1.52	0.36	0.20



Stellar Parameters For KIC 002697199

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5912^{+148}_{-177}	$4.532^{+0.046}_{-0.195}$	$-0.180^{+0.300}_{-0.300}$	$0.889^{+0.242}_{-0.086}$	$0.980^{+0.107}_{-0.131}$	$1.966^{+0.374}_{-0.985}$
	+3%/-3%	+1%/-4%	+167%/-167%	+27%/-10%	+11%/-13%	+19%/-50%
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 002697199-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-176 ± 24	$1.73^{+0.50}_{-0.44}$	363^{+25}_{-18}	5219^{+780}_{-478}	27142^{+23385}_{-11438}
Alt.	-106 ± 25	$1.34^{+0.48}_{-0.43}$	363^{+23}_{-16}	5242^{+1114}_{-658}	27313^{+31702}_{-13398}

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

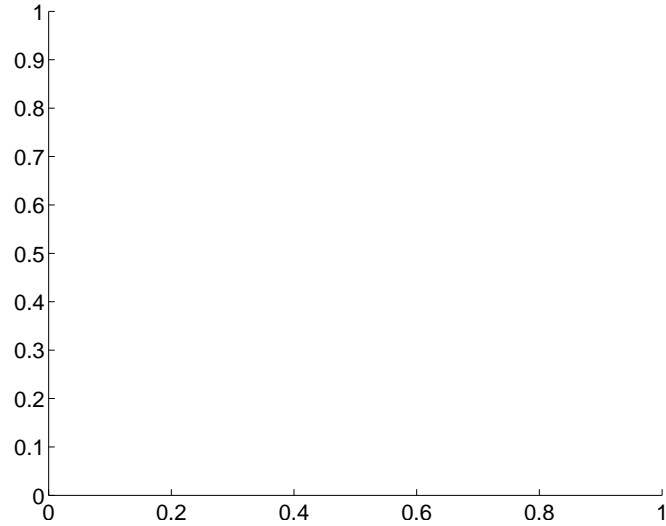
Supplemental centroid analysis for 002697199-01. Kepler magnitude: 14.51. Transit SNR 5.69

There are 0 quarters with good PRF difference image offsets

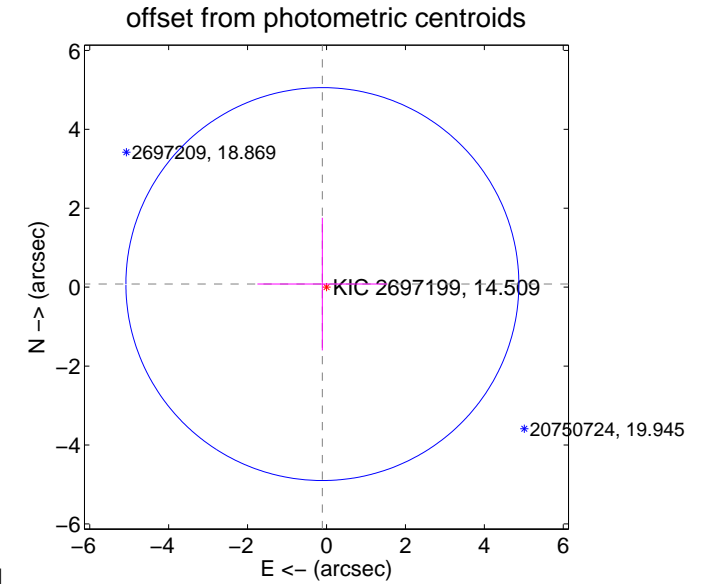
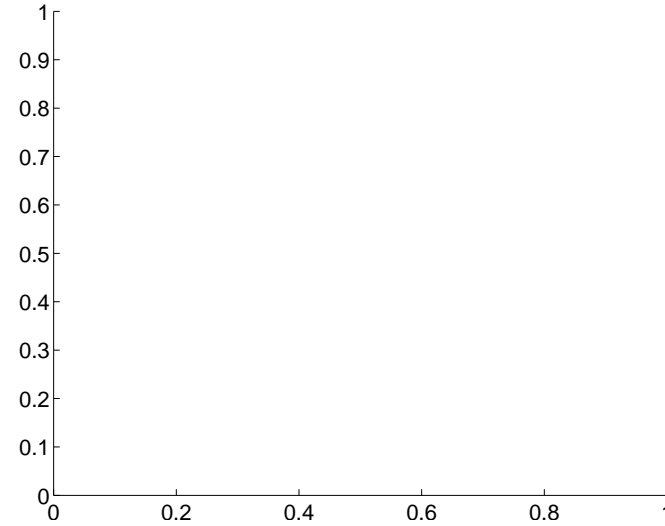
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	0.13 ± 1.66	0.08	0.10 ± 1.65	0.08 ± 1.68

There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC

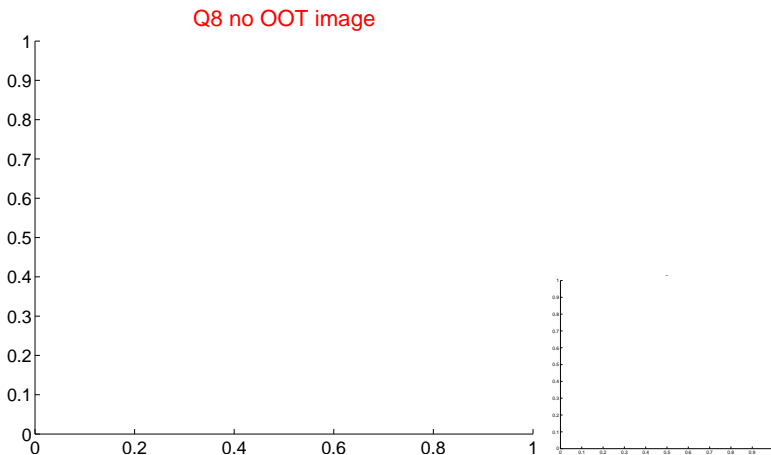
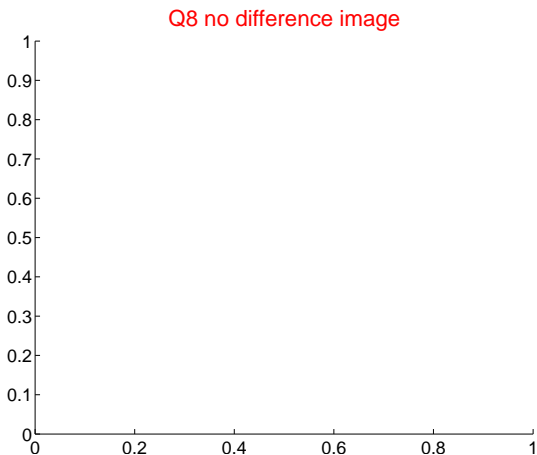
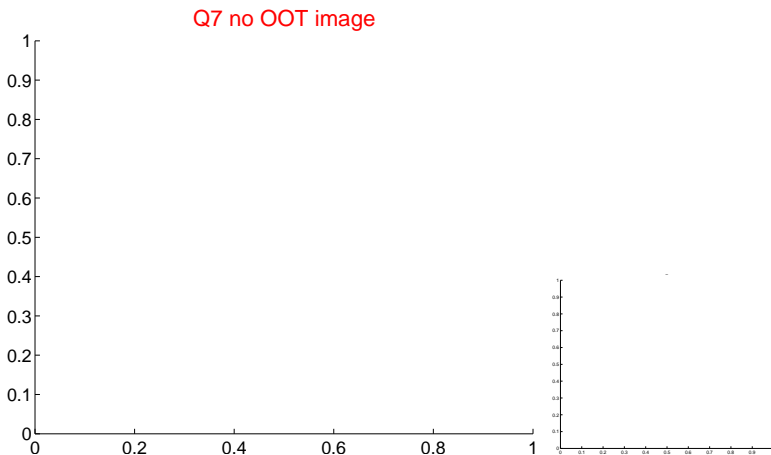
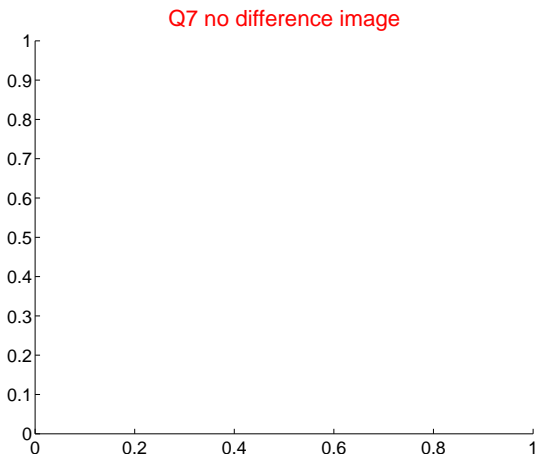
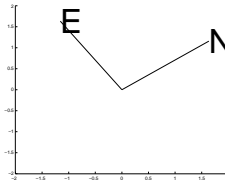
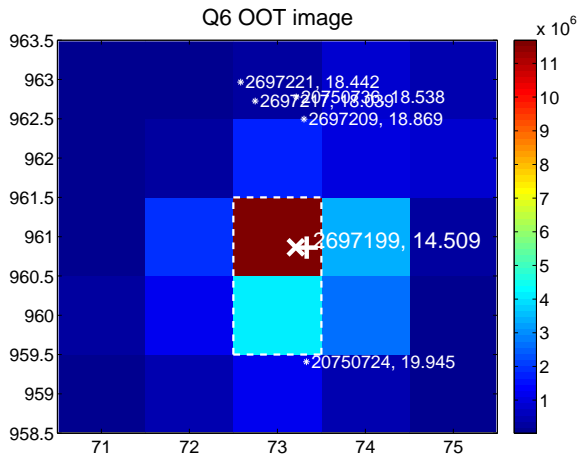
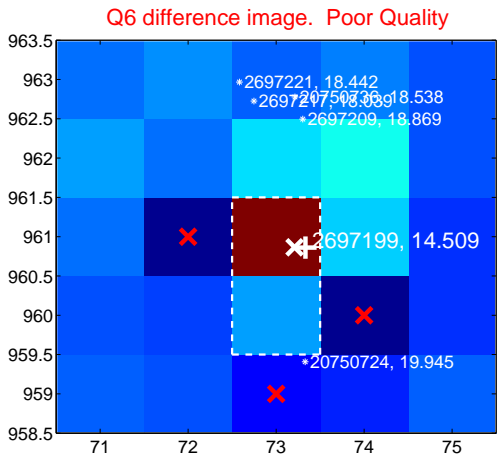
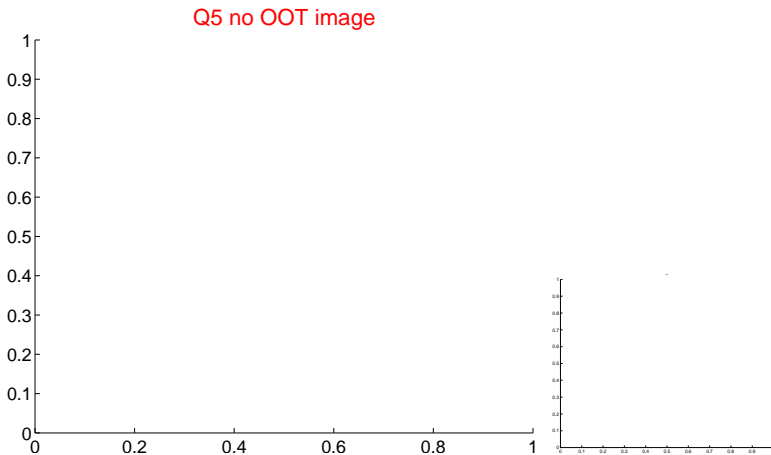
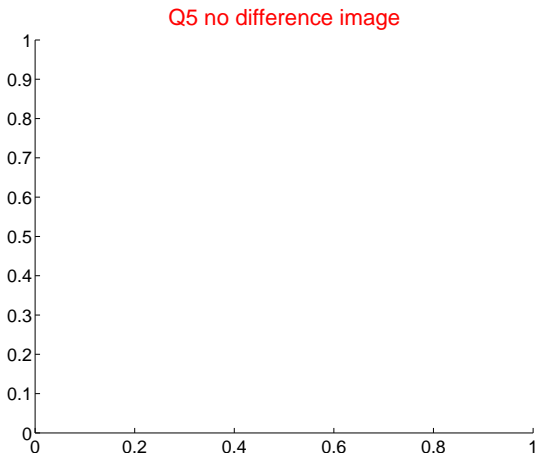


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

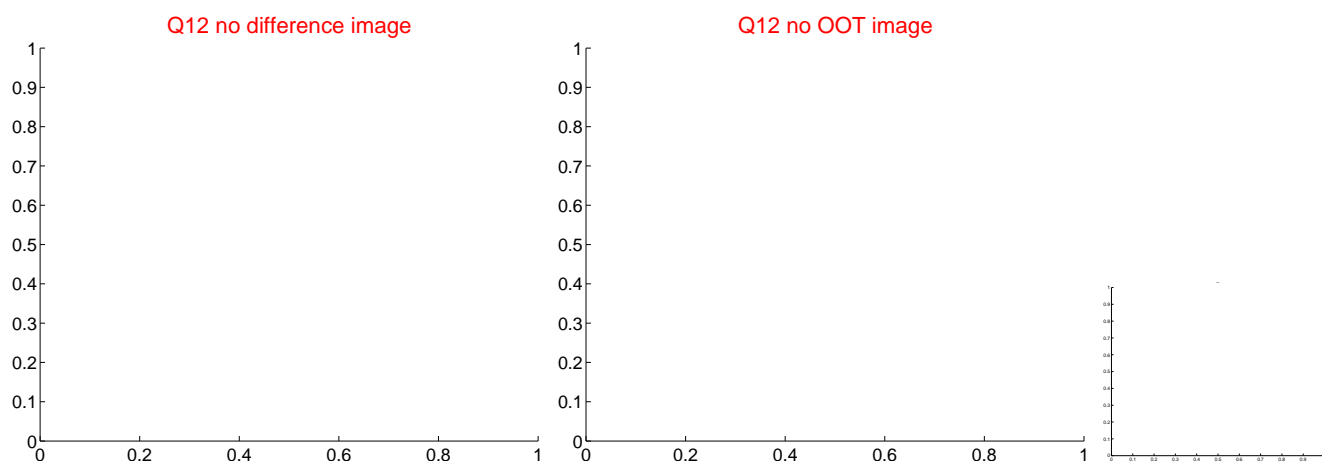
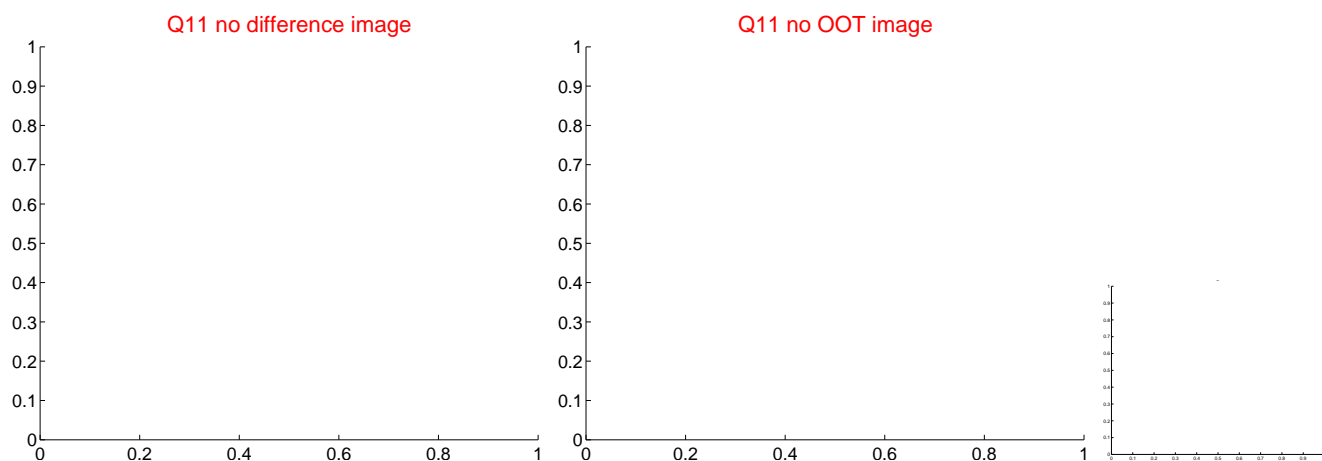
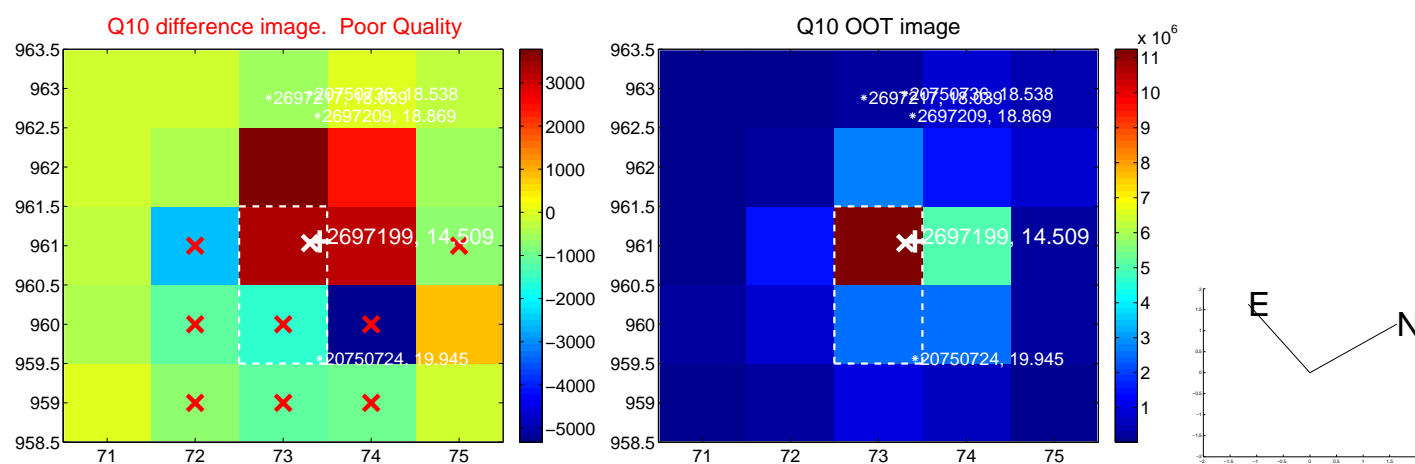
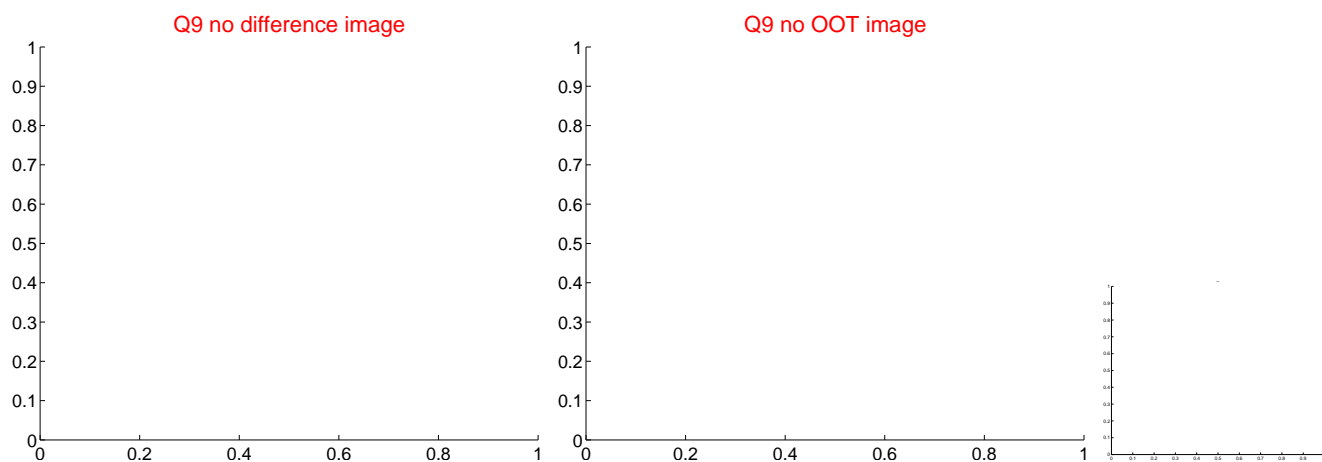
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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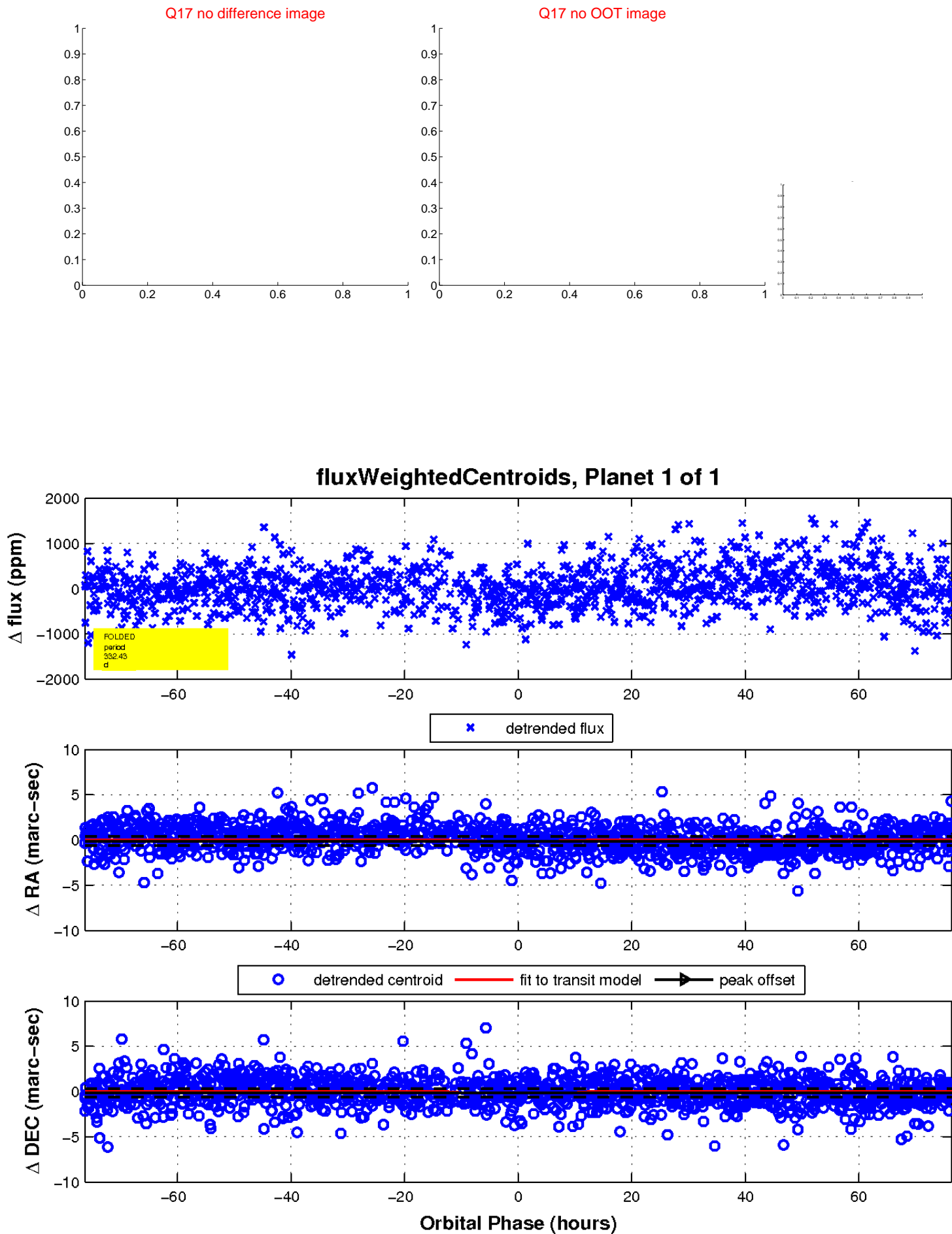
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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UKIRT Image

Declination

