

KIC 003448299

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})
003448299-01	OBS	No	0.513430	131.784222	19.4	4.169	12.1	6.1	0.89	6261	0.39	6994.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003448299-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—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.

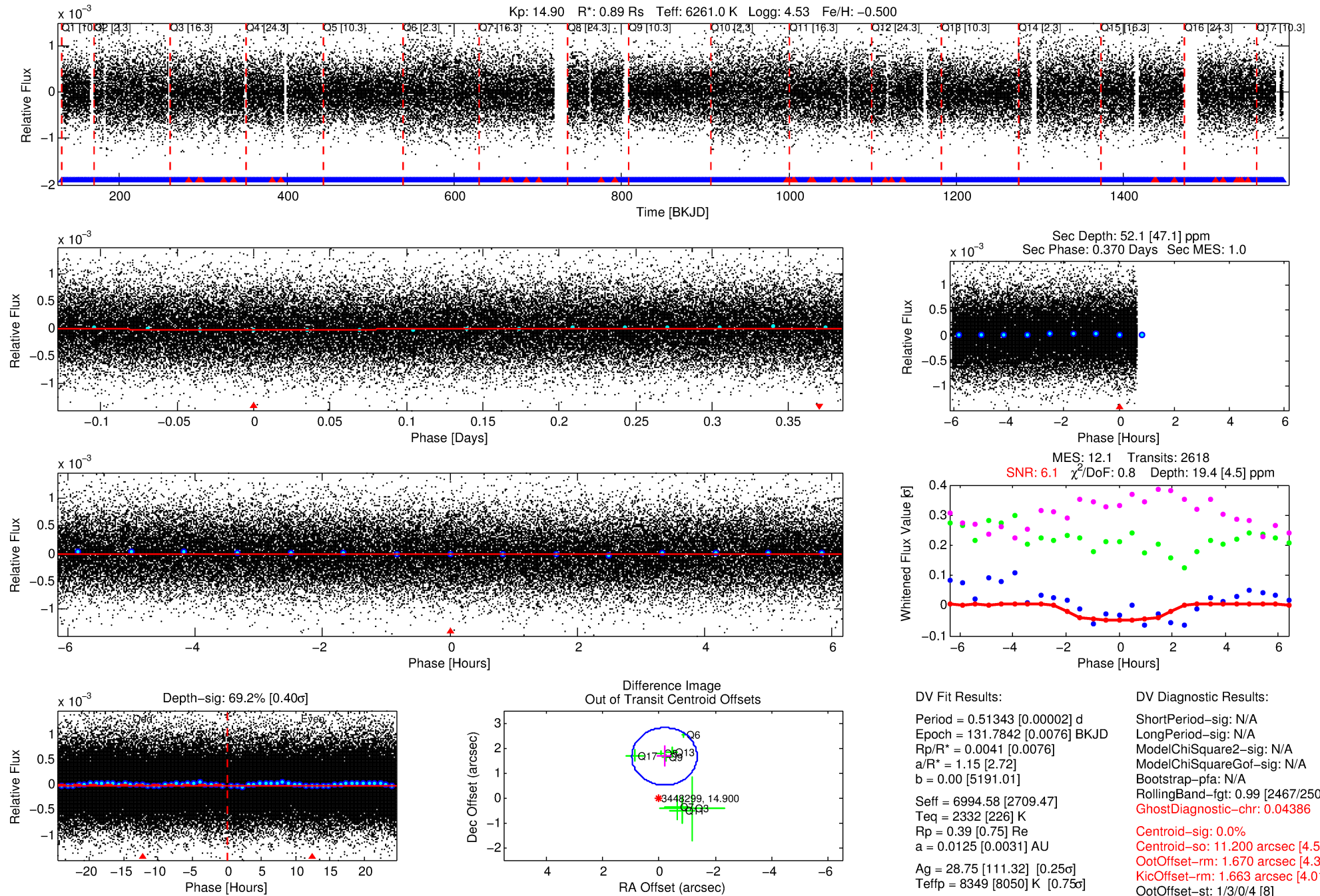
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003448299-01

No Significant Match Found

DV One-Page Summary

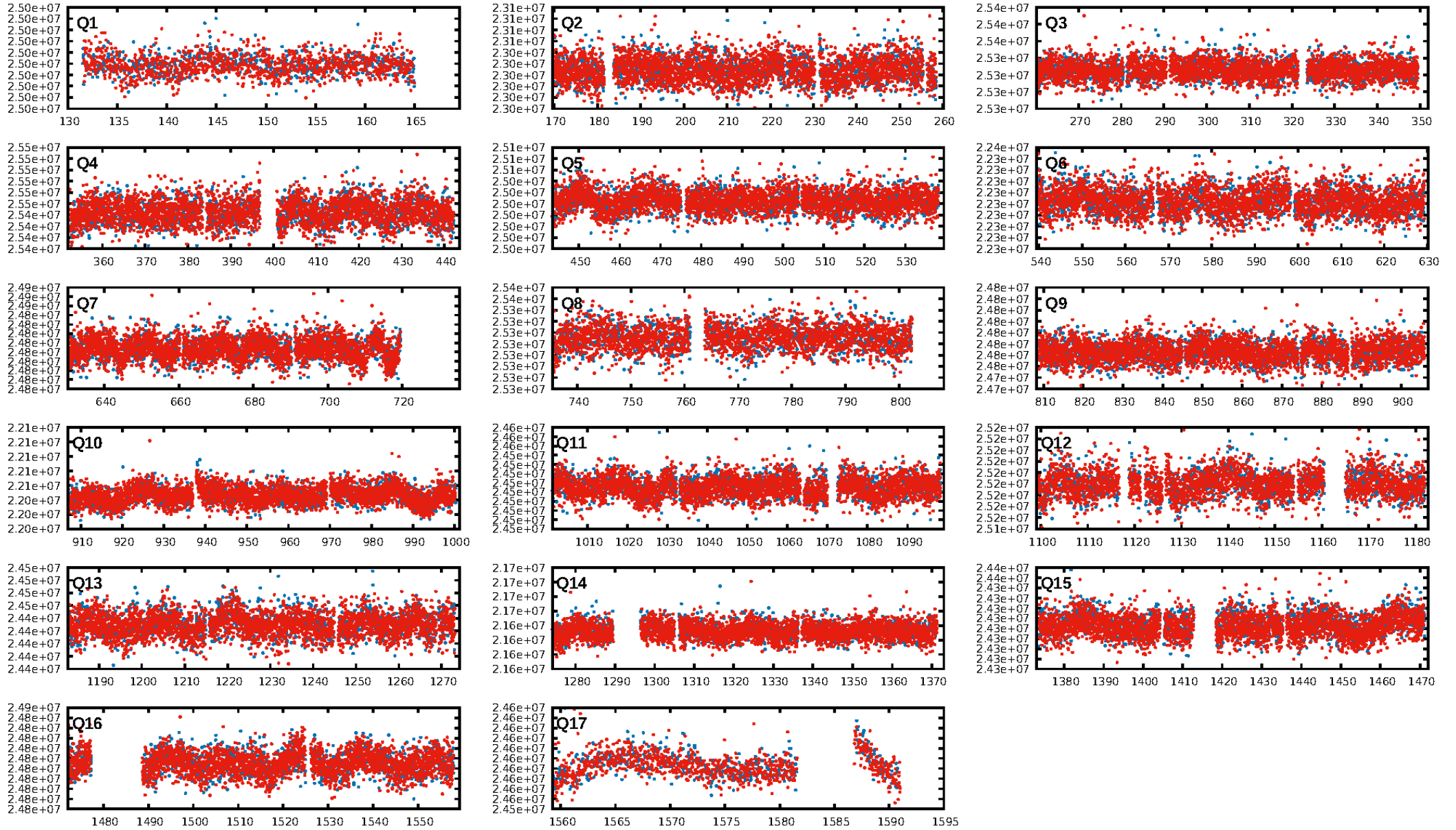
KIC: 3448299 Candidate: 1 of 1 Period: 0.513 d



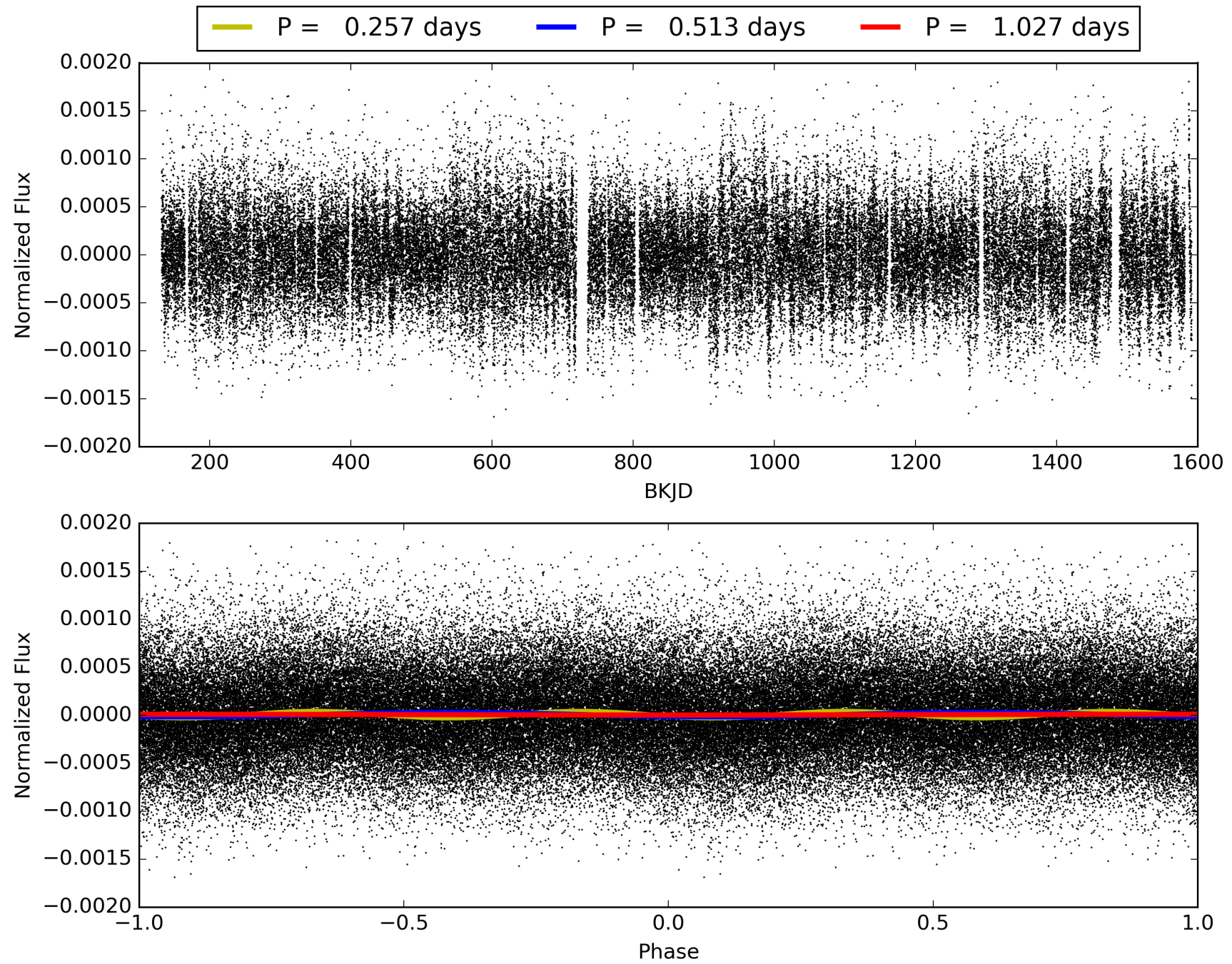
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:55:54 Z

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

TCE 003448299-01, PDC Light Curves

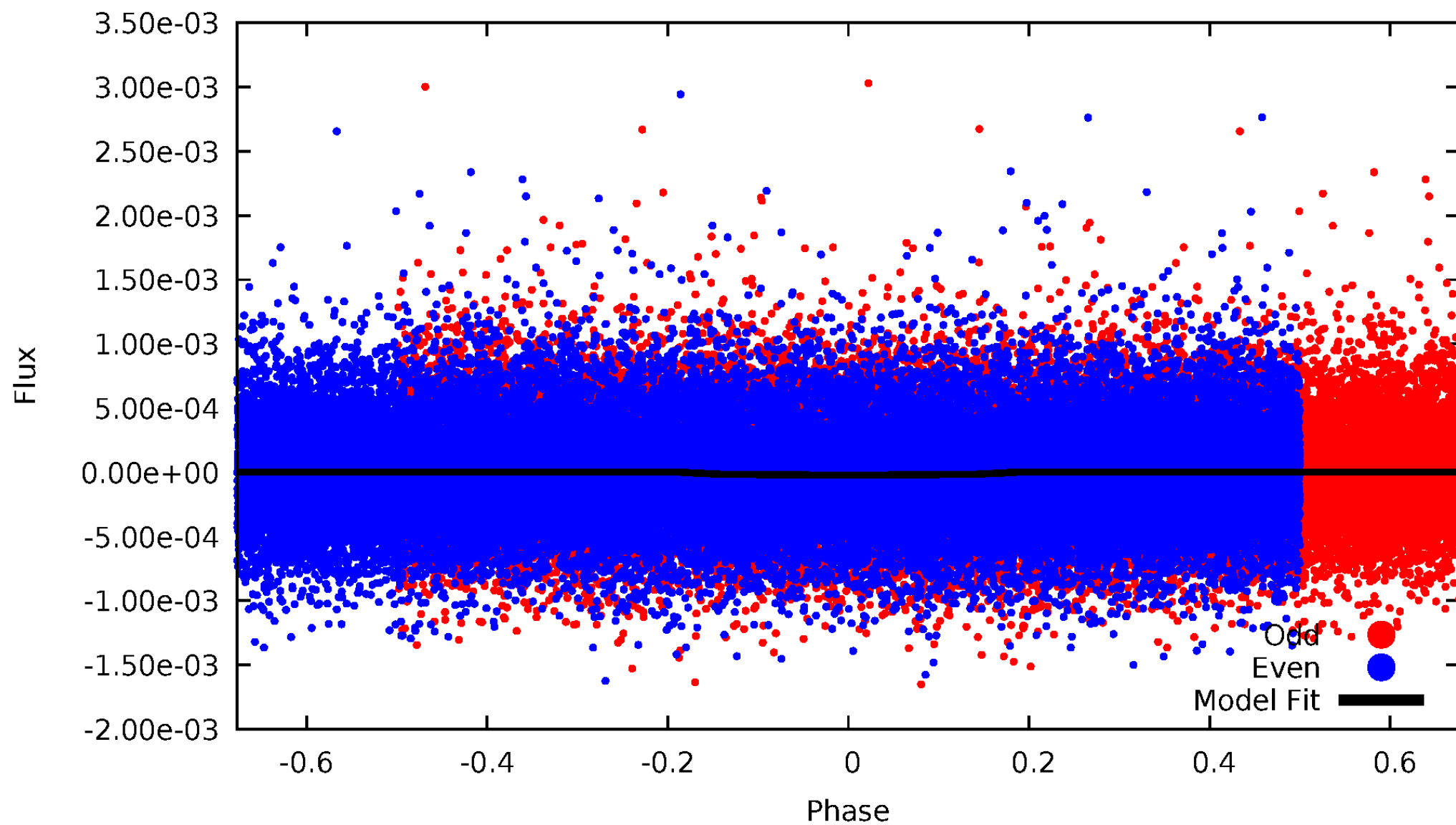


TCE 003448299-01



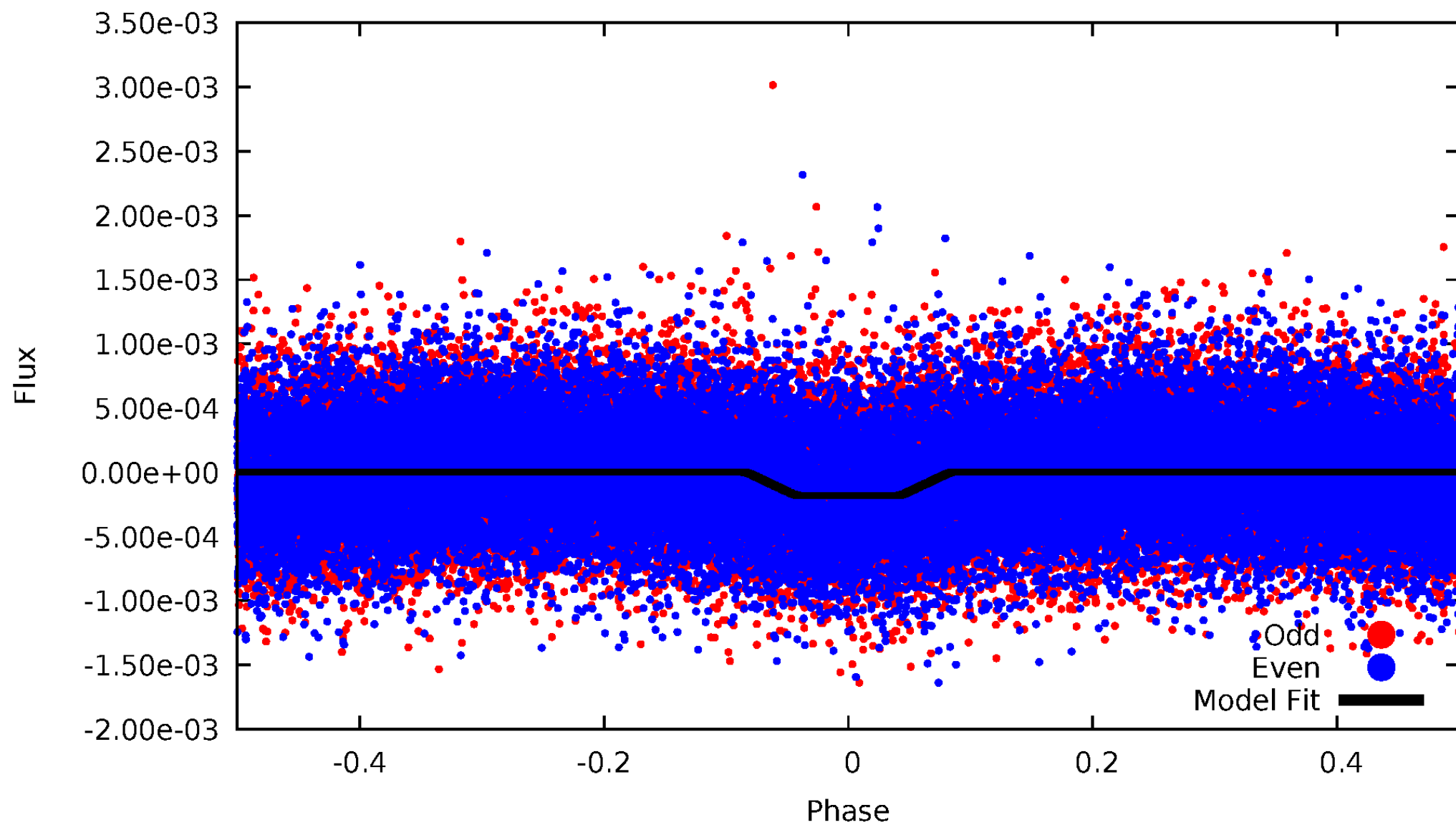
DV Odd/Even

TCE 003448299-01



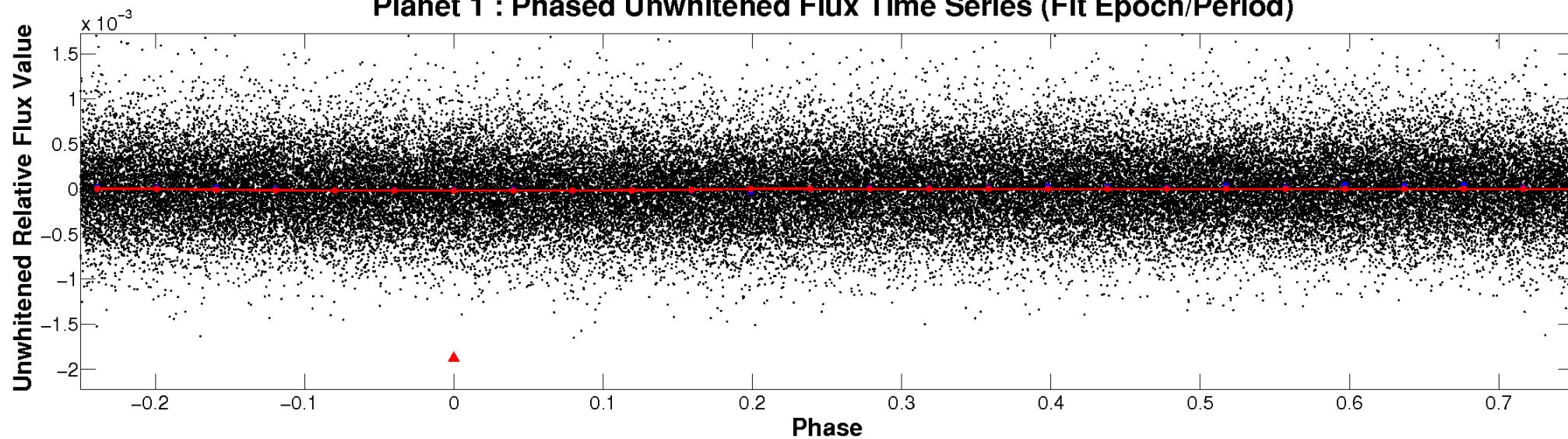
ALT Odd/Even

TCE 003448299-01

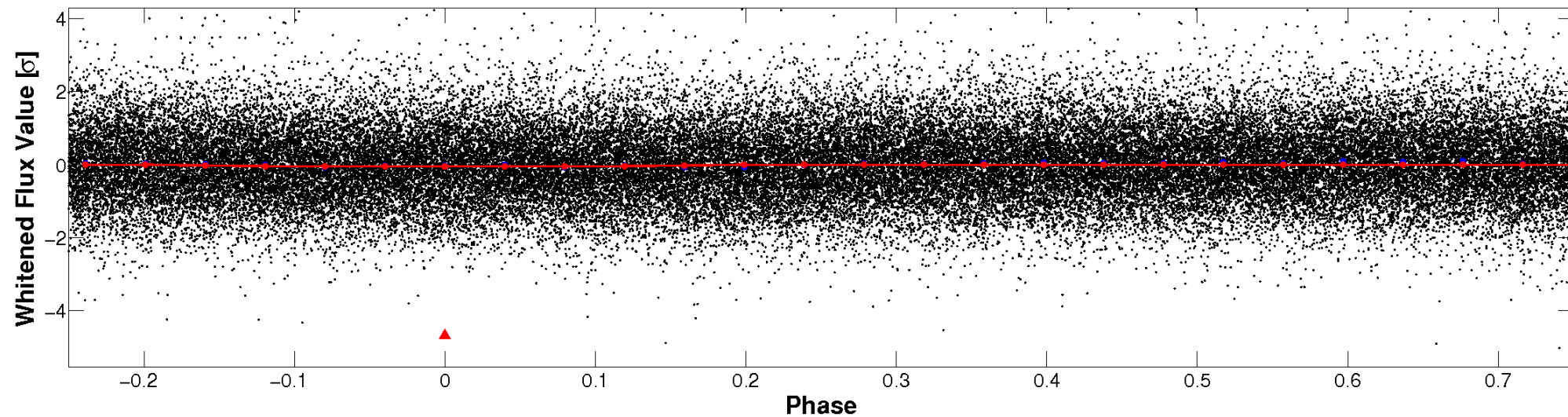


Non-Whitened Vs. Whitened Light Curve

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

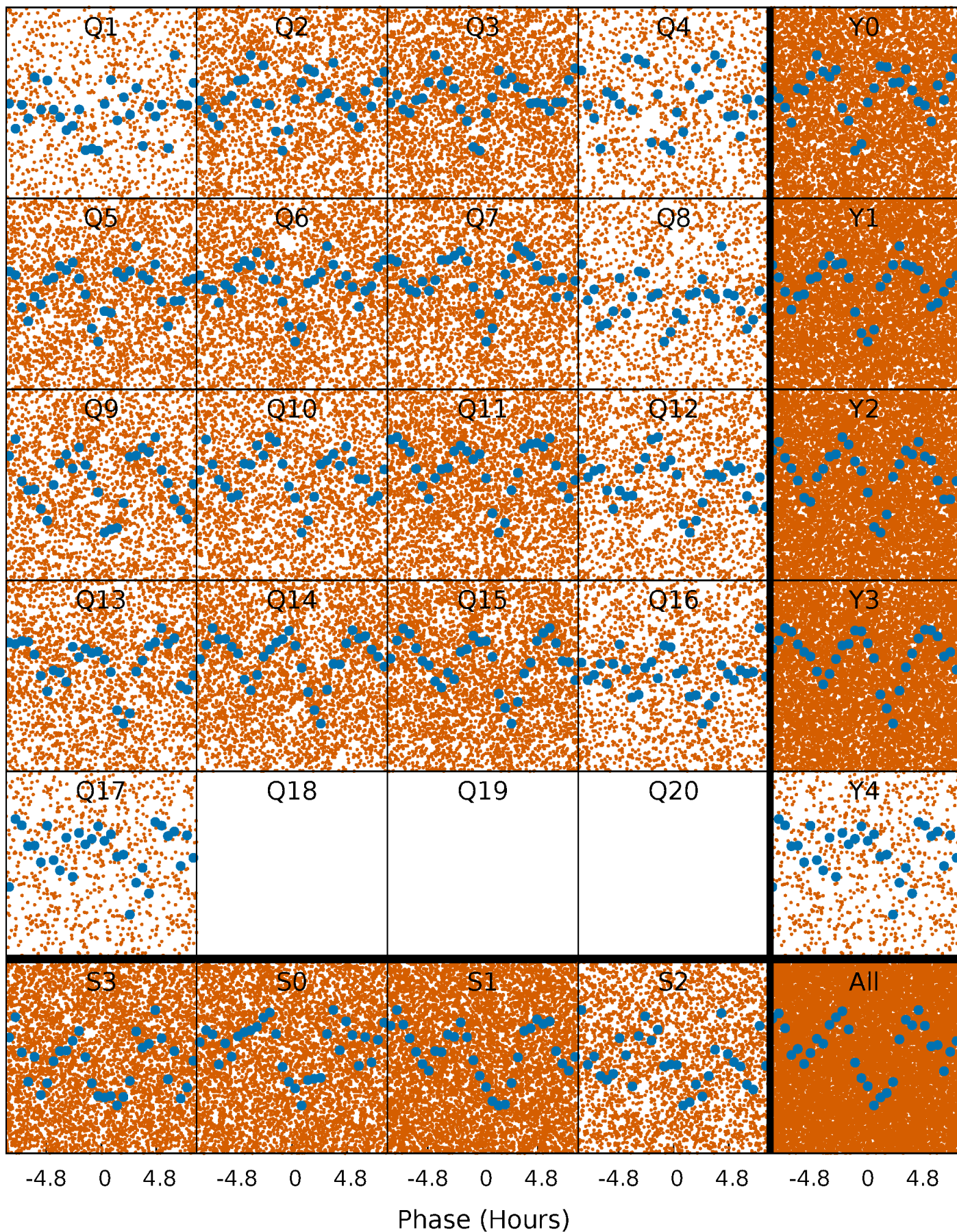


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



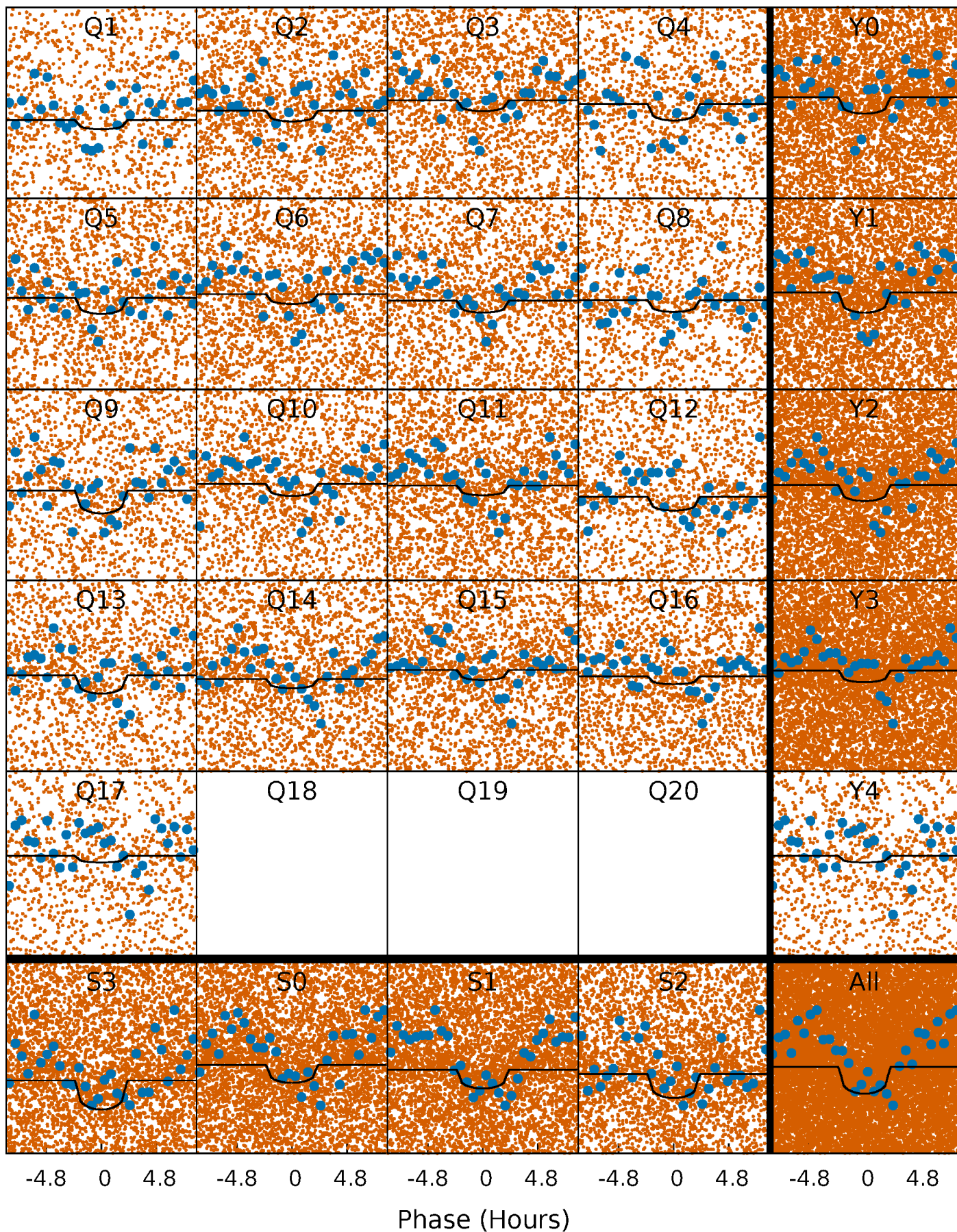
PDC Quarter-Phased Transit Curves

TCE 003448299-01 P= 0.513430 Days $T_0=131.784222$ (BKJD)



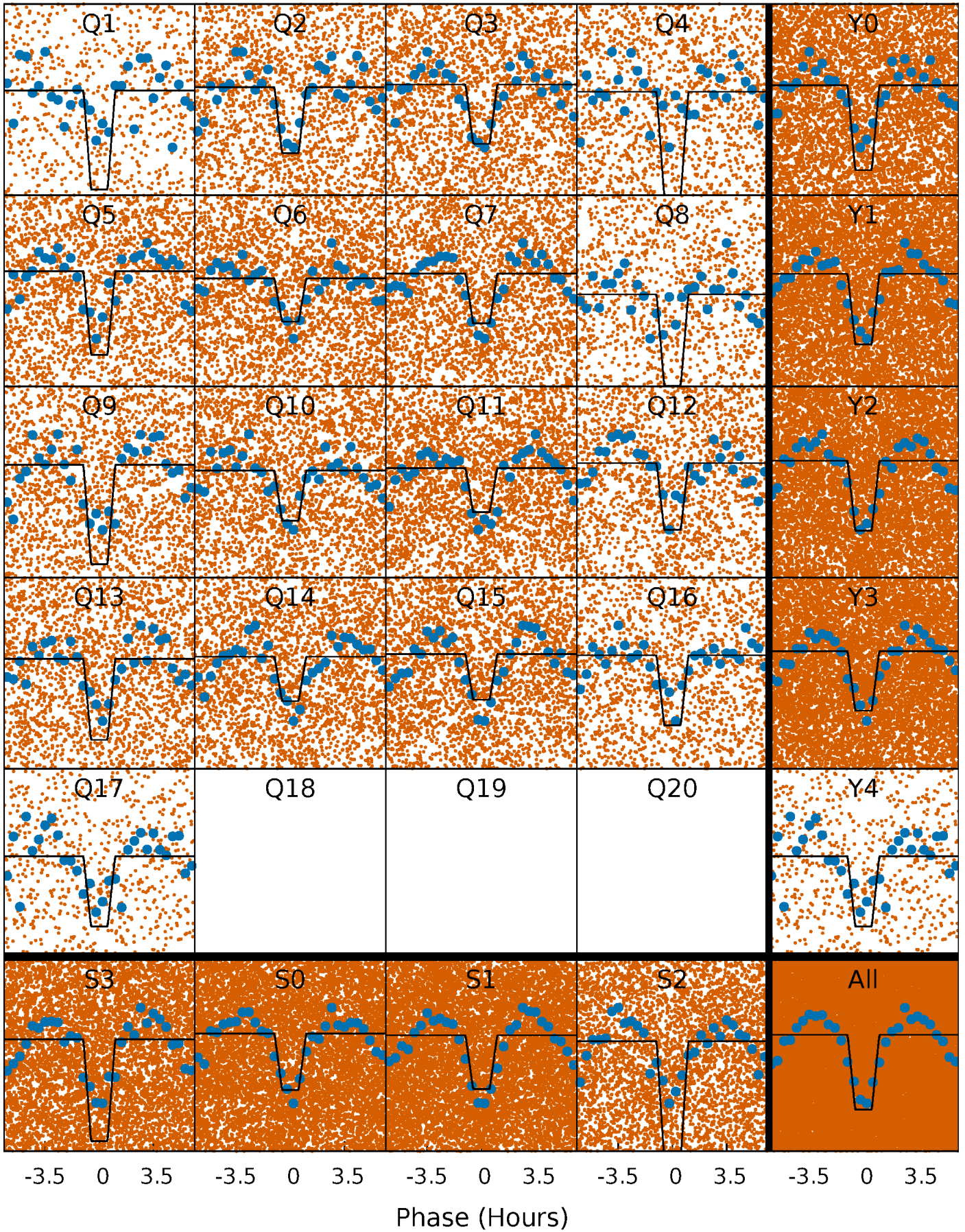
DV Quarter-Phased Transit Curves

TCE 003448299-01 P= 0.513430 Days $T_0=131.784222$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

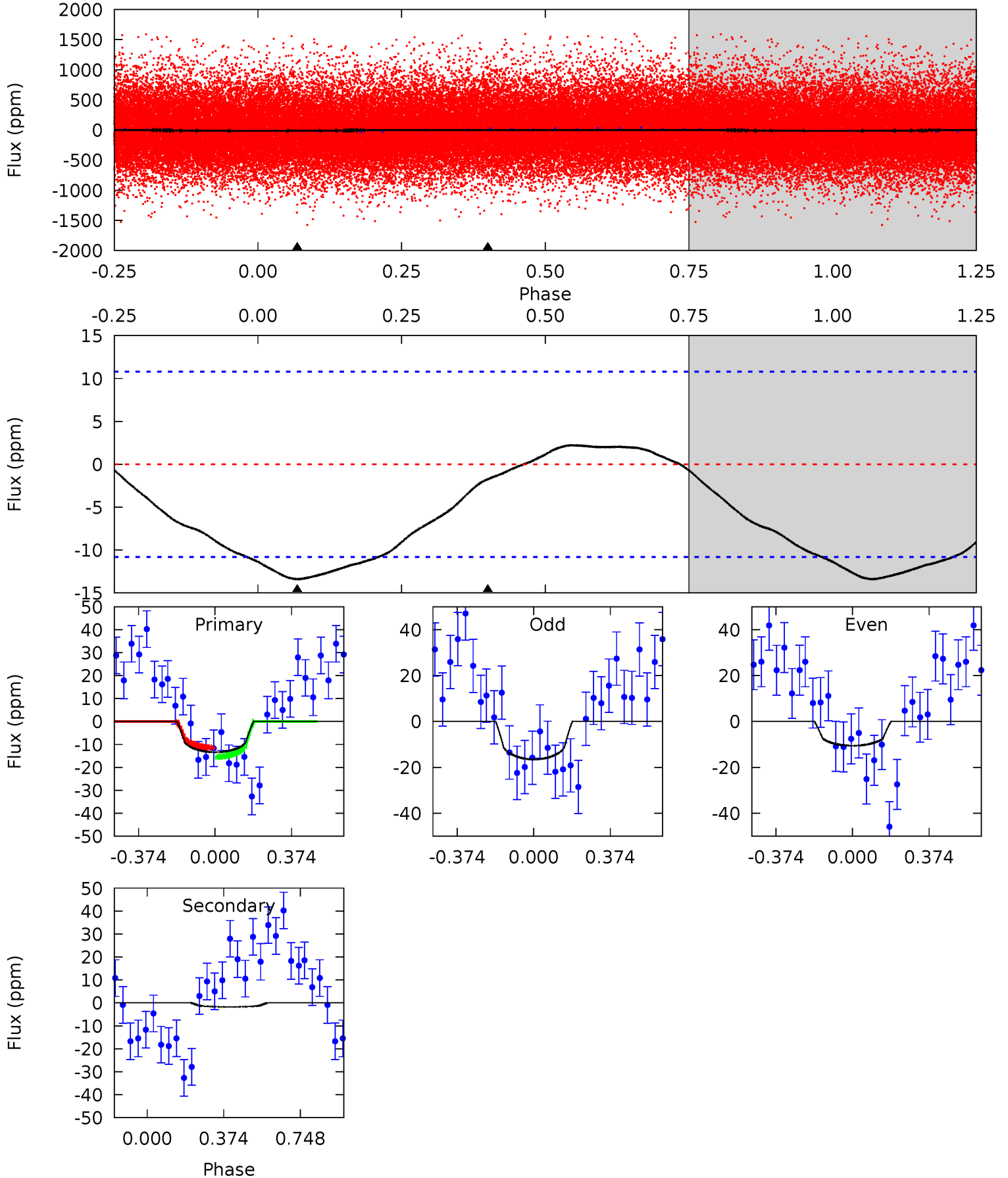
TCE 003448299-01 P= 0.513486 Days $T_0=131.741860$ (BKJD)



DV Model-Shift Uniqueness Test

003448299-01, P = 0.513430 Days, E = 131.270792 Days

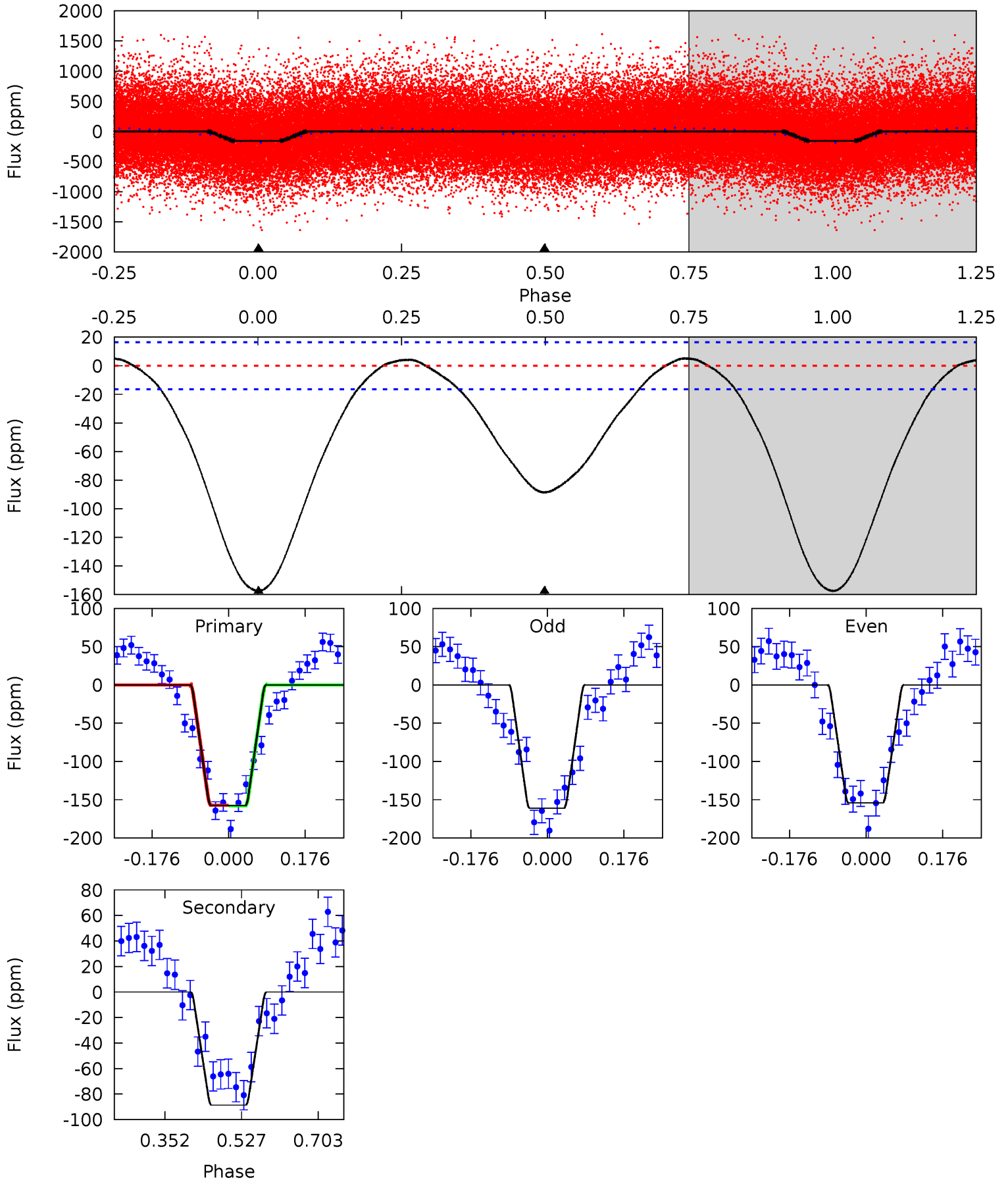
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.31	0.70	0	0	4.28	0.89	0.49	5.31	5.31	0.70	0.70	1.19	0.85	0.14	0.80



Alt Model-Shift Uniqueness Test

003448299-01, P = 0.513486 Days, E = 131.228374 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
42.5	23.9	0	0	4.44	1.35	1.39	42.5	42.5	23.9	23.9	0.92	0.97	0.03	0.12



Stellar Parameters For KIC 003448299

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6261^{+170}_{-207}	$4.532^{+0.037}_{-0.200}$	$-0.500^{+0.300}_{-0.300}$	$0.889^{+0.261}_{-0.070}$	$0.981^{+0.123}_{-0.123}$	$1.967^{+0.383}_{-0.997}$
	+3%/-3%	+1%/-4%	+60%/-60%	+29%/-8%	+13%/-13%	+19%/-51%
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 003448299-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 3	$0.70^{+0.70}_{-0.44}$	3328^{+230}_{-145}	-2881^{+7273}_{-656}	$0.189^{+1.769}_{-0.325}$
Alt.	-89 ± 4	$1.40^{+0.76}_{-0.72}$	3327^{+213}_{-145}	5116^{+2348}_{-925}	$3.820^{+12.159}_{-2.247}$

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 $A_{obs} \gg 1.0$

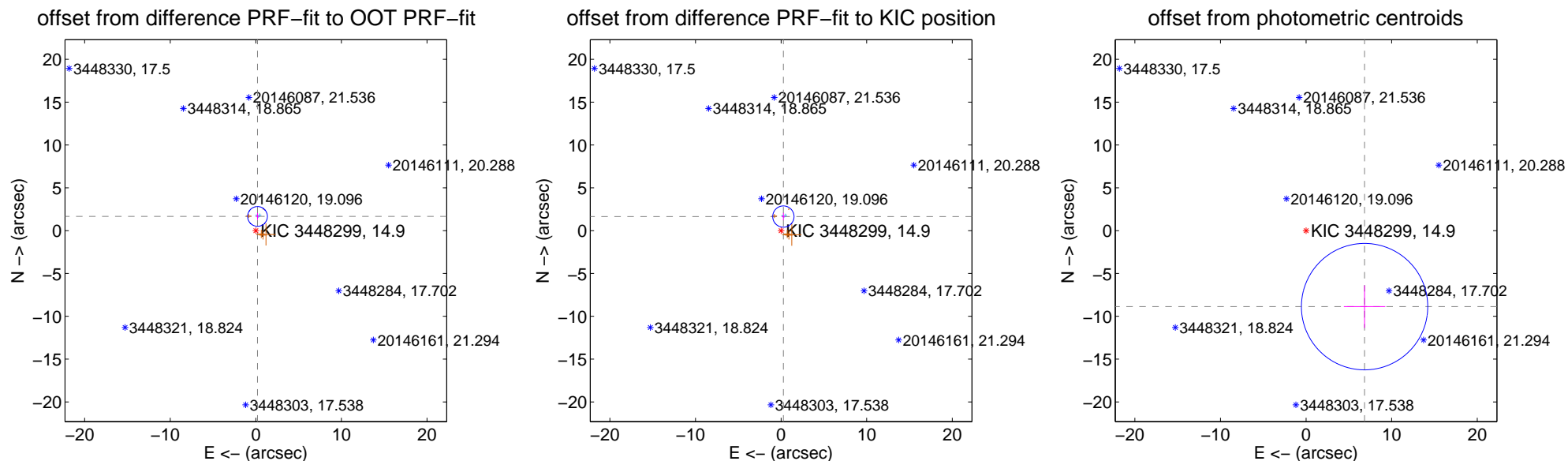
DV Centroid Data

Supplemental centroid analysis for 003448299-01. Kepler magnitude: 14.90. Transit SNR 6.15

There are 3 quarters with good PRF difference image offsets

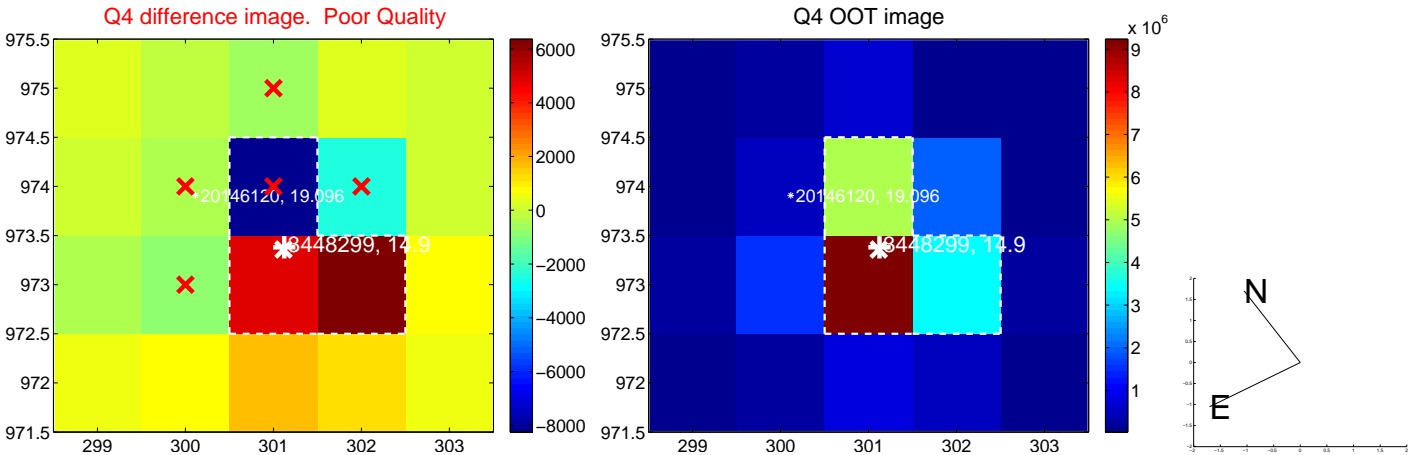
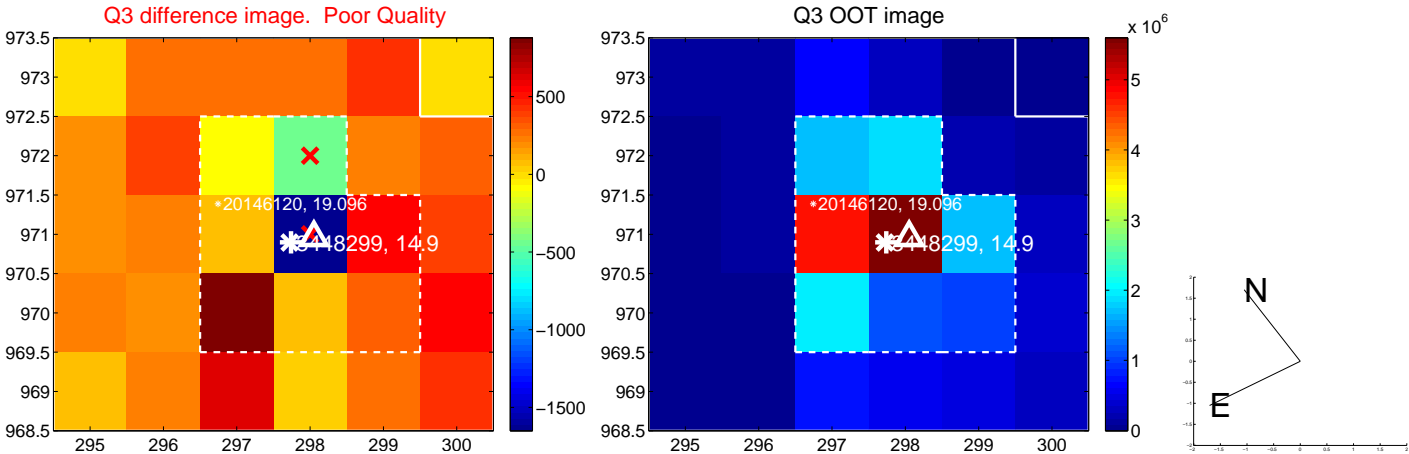
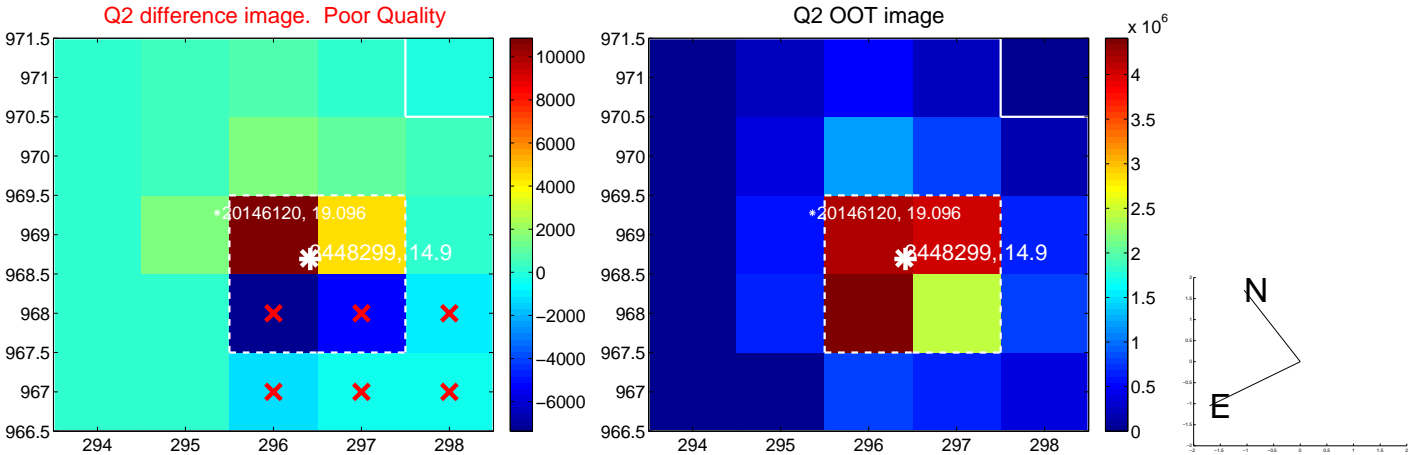
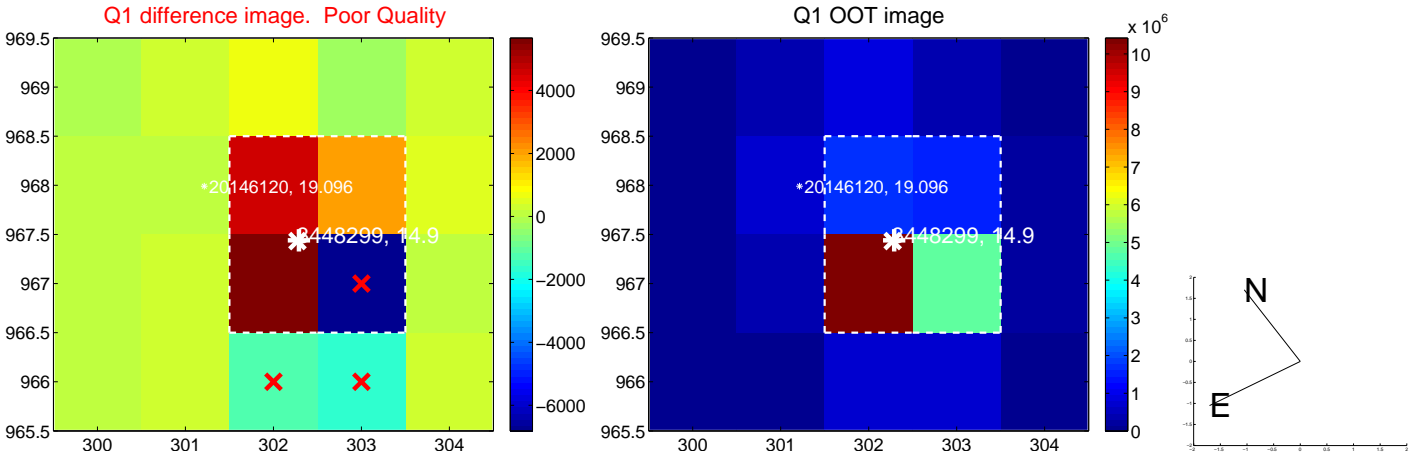
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.670 ± 0.385	4.34	-0.197 ± 0.231	1.658 ± 0.400
PRF-fit source offset from KIC position	1.663 ± 0.415	4.01	-0.268 ± 0.210	1.641 ± 0.433
photometric centroid source offset	11.20 ± 2.46	4.55	-6.84 ± 2.42	-8.87 ± 2.48

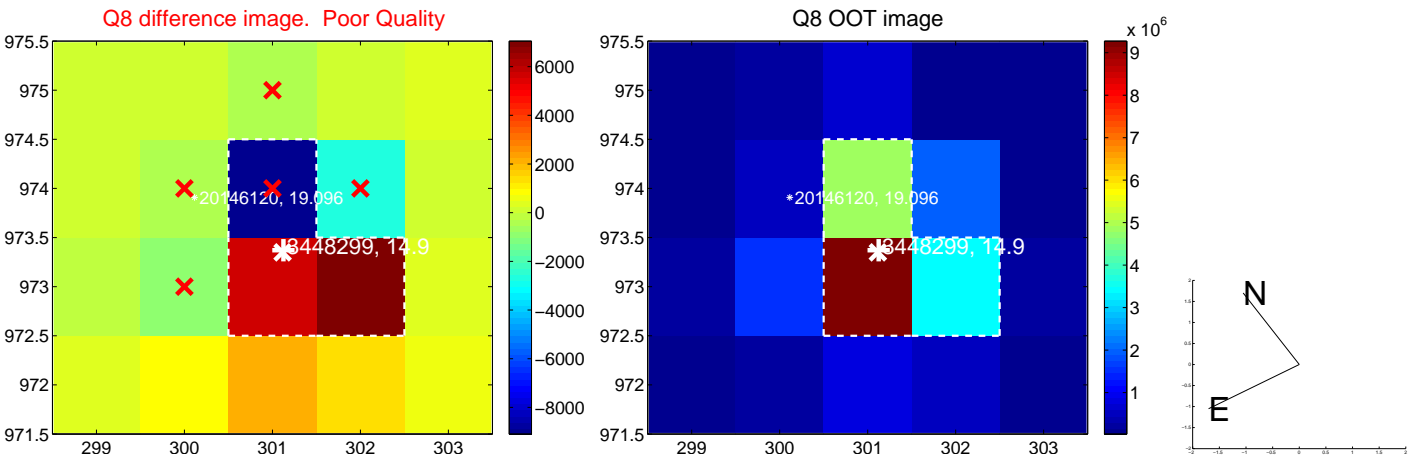
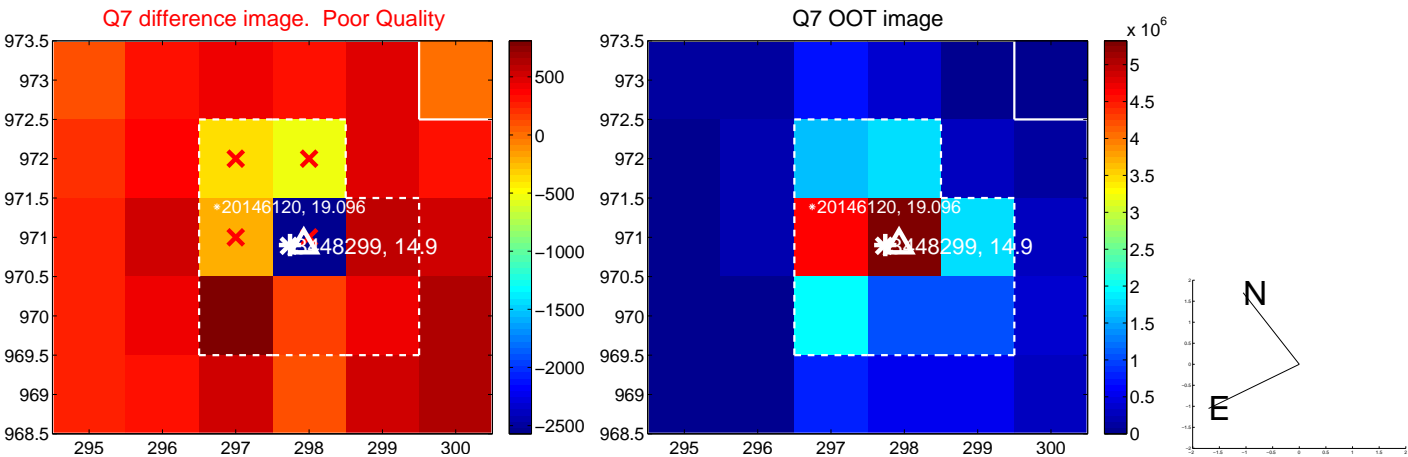
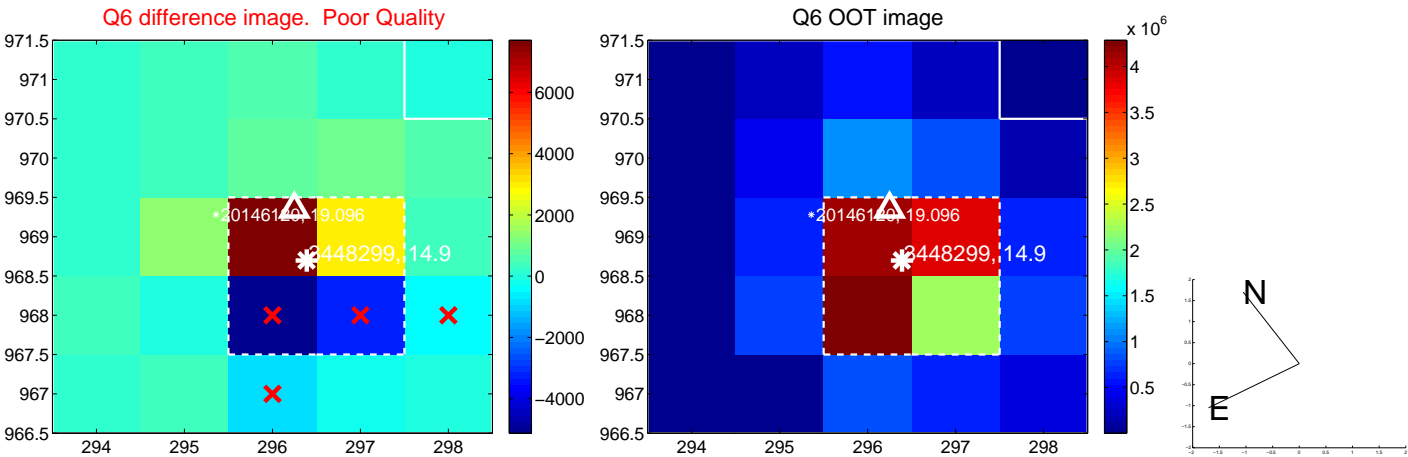
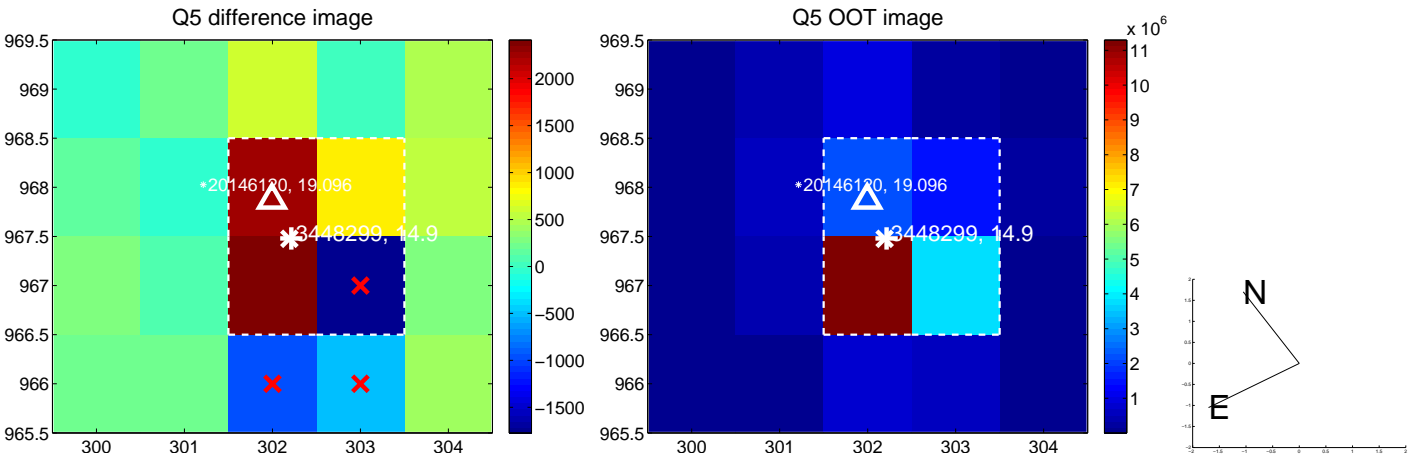


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

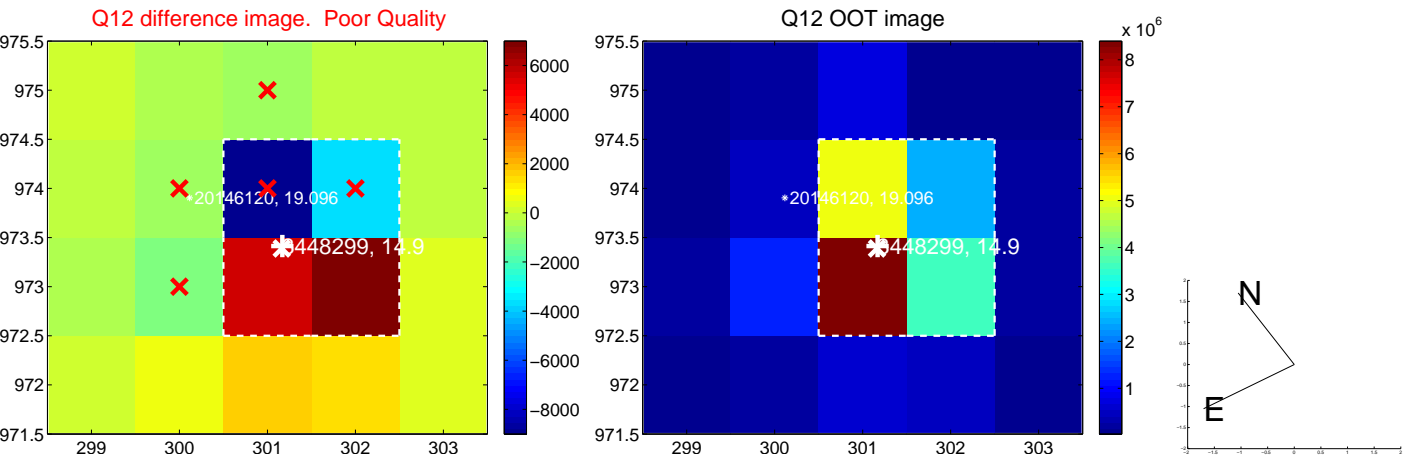
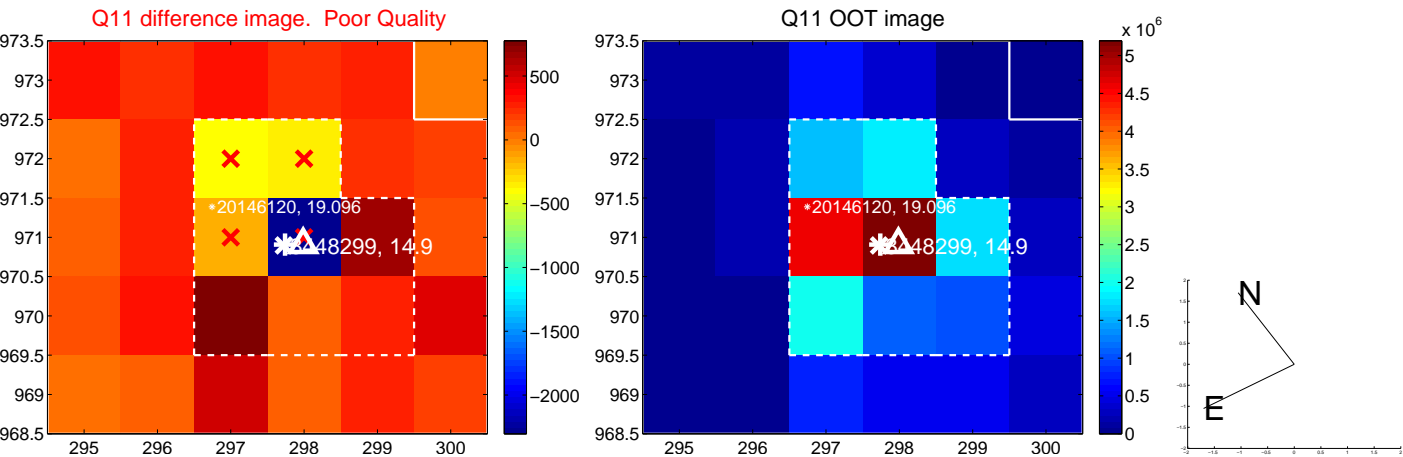
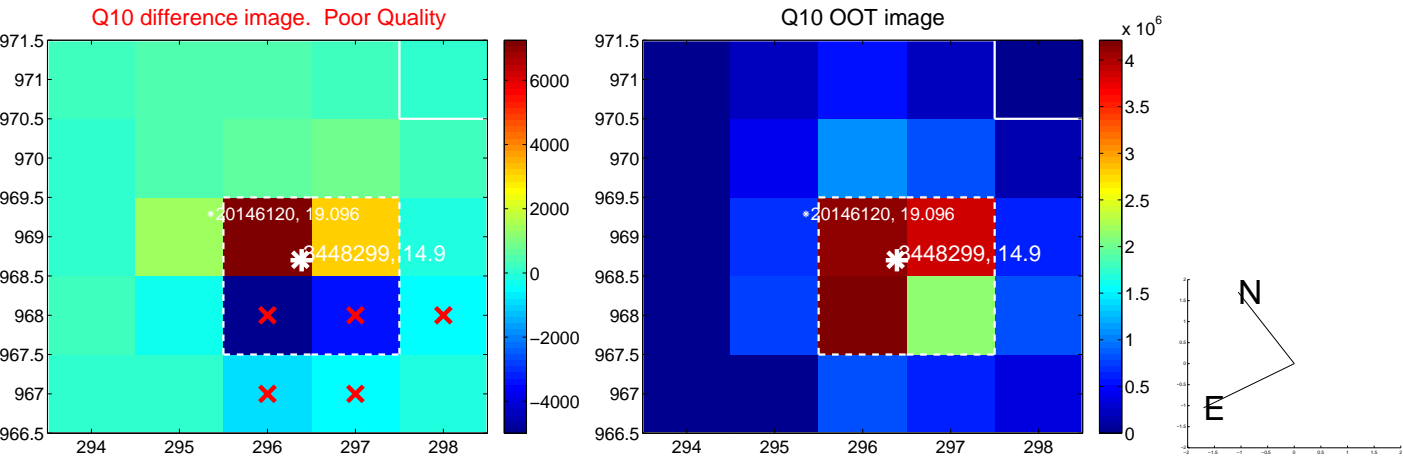
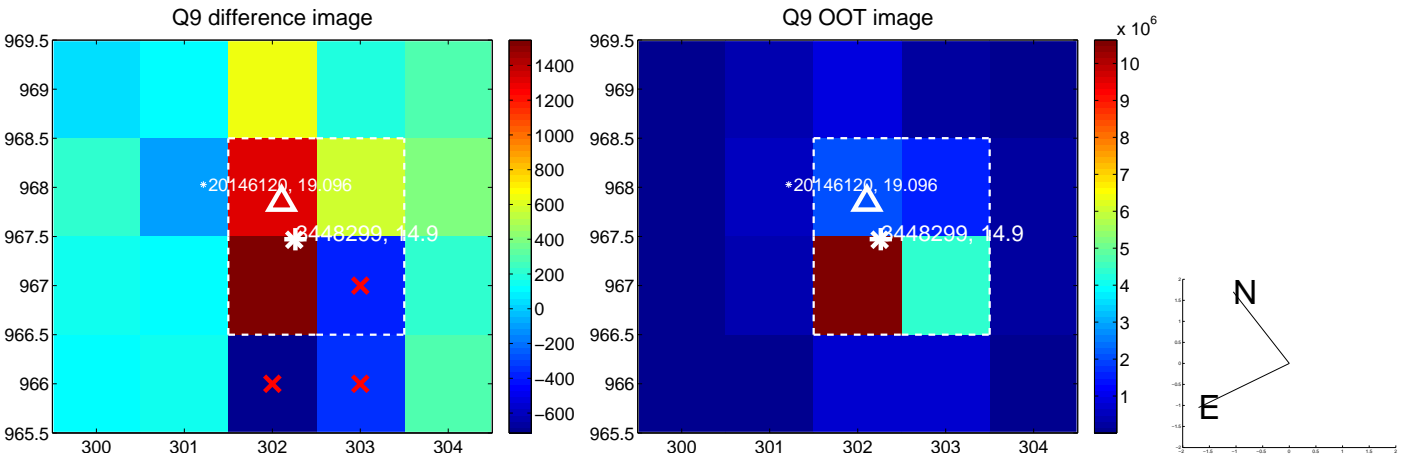
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



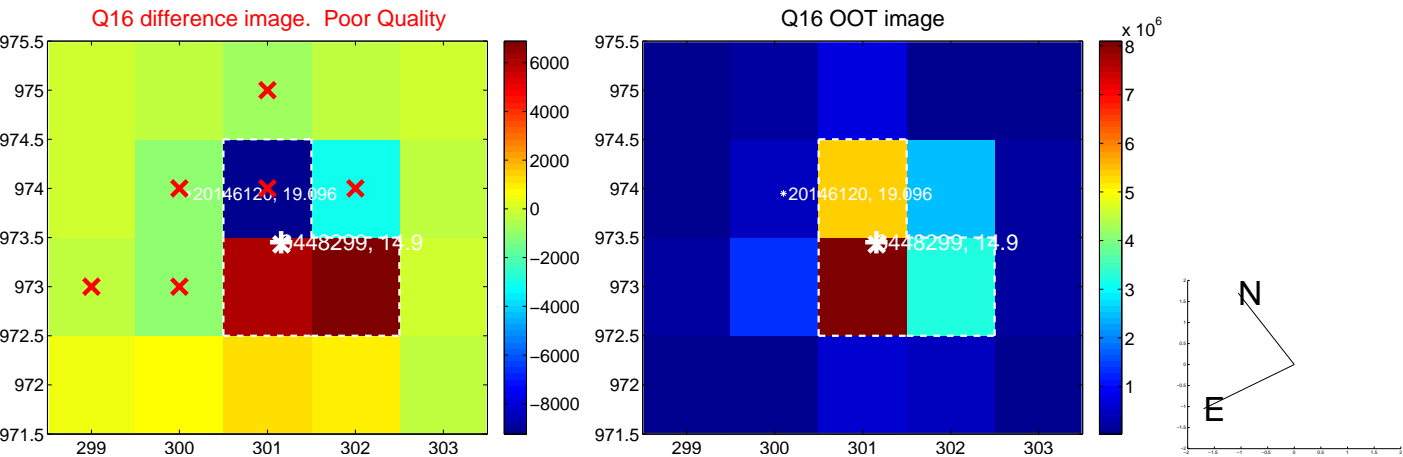
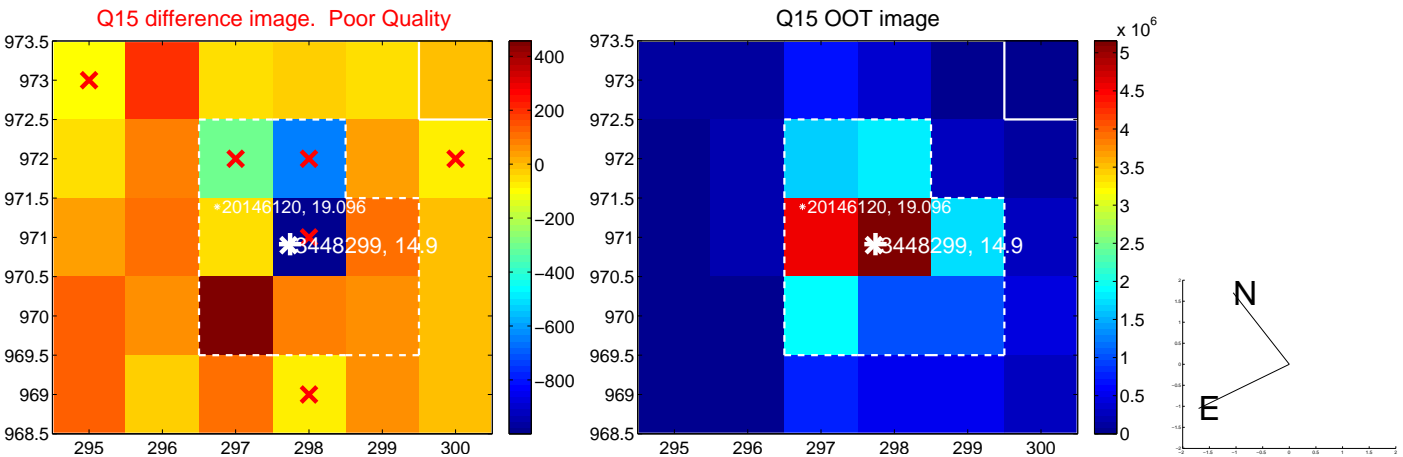
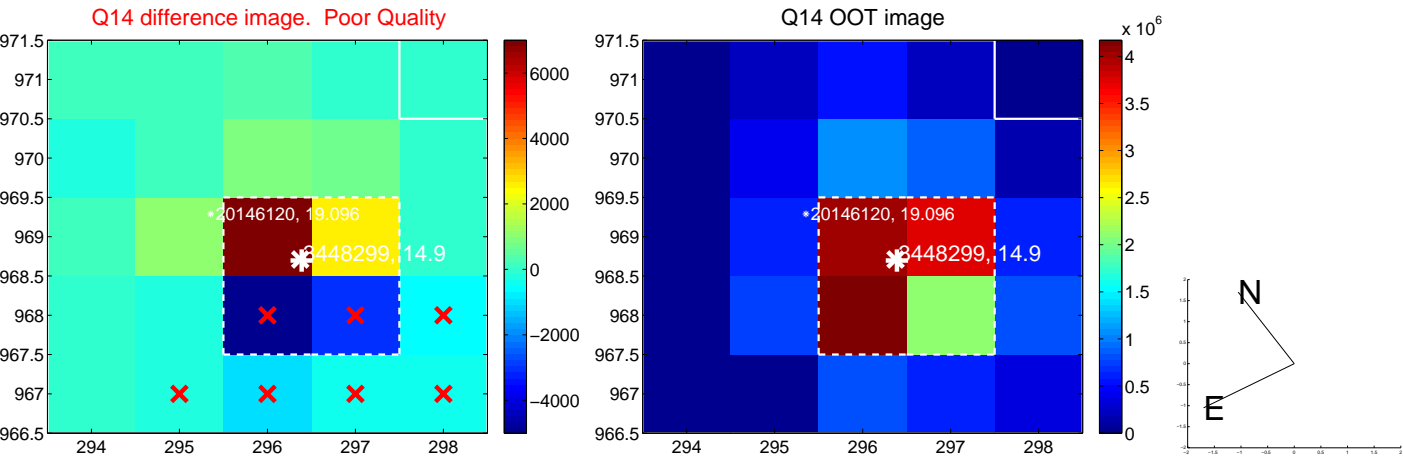
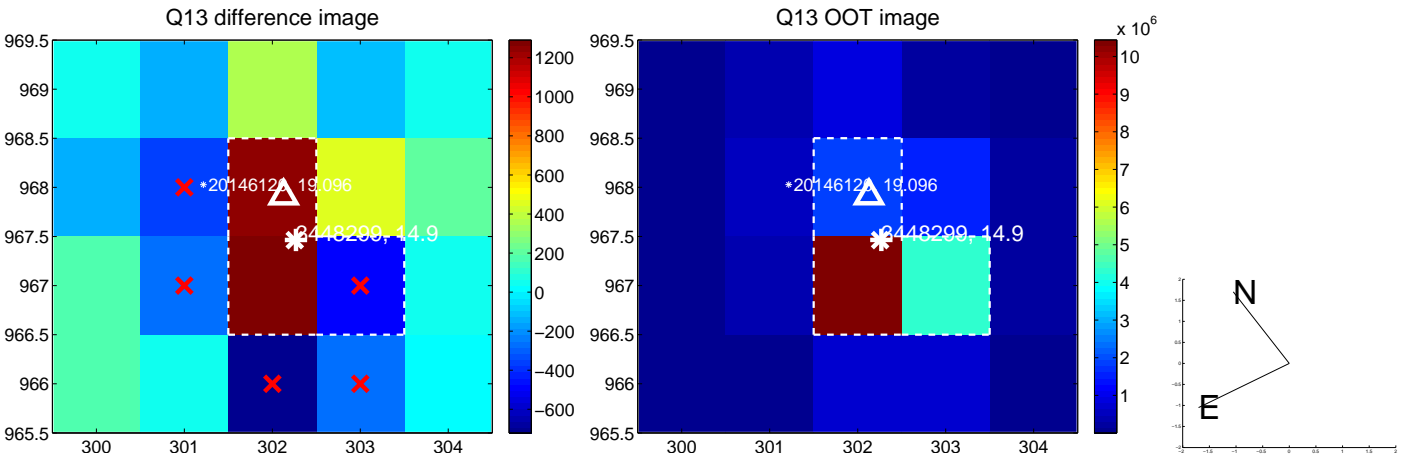
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



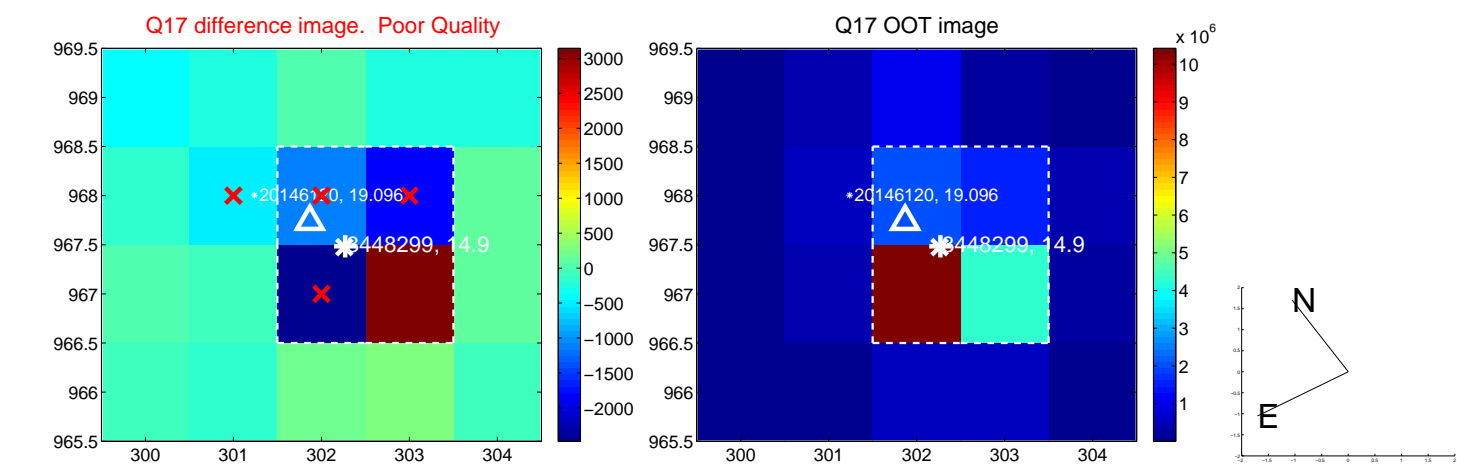
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



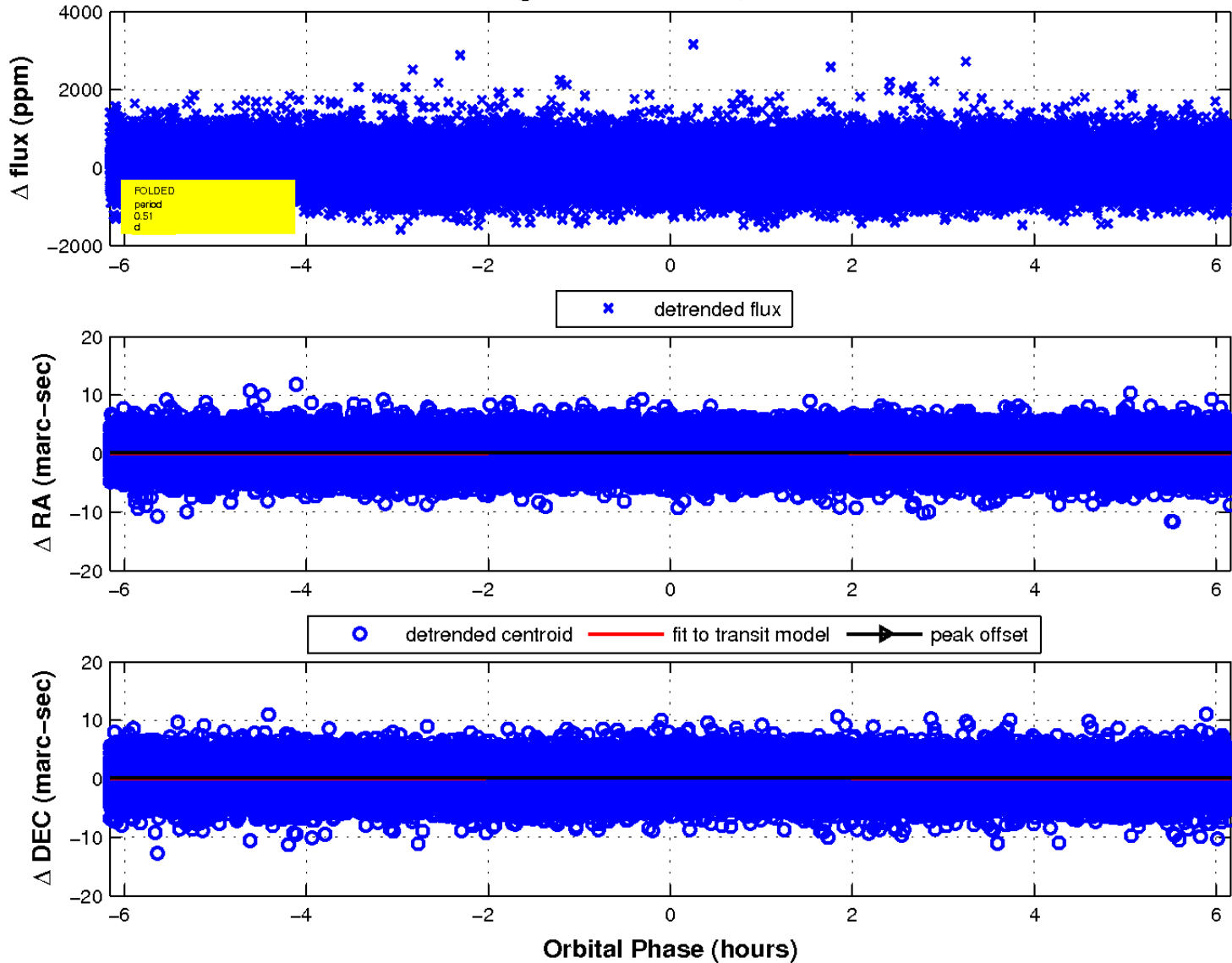
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fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

