

KIC 009692268

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})
009692268-01	OBS	No	4.817215	132.401579	42.8	17.271	7.4	6.5	0.80	5647	0.53	204.43

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009692268-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—CENT_RESOLVED_OFFSET—HALO_GHOST

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

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

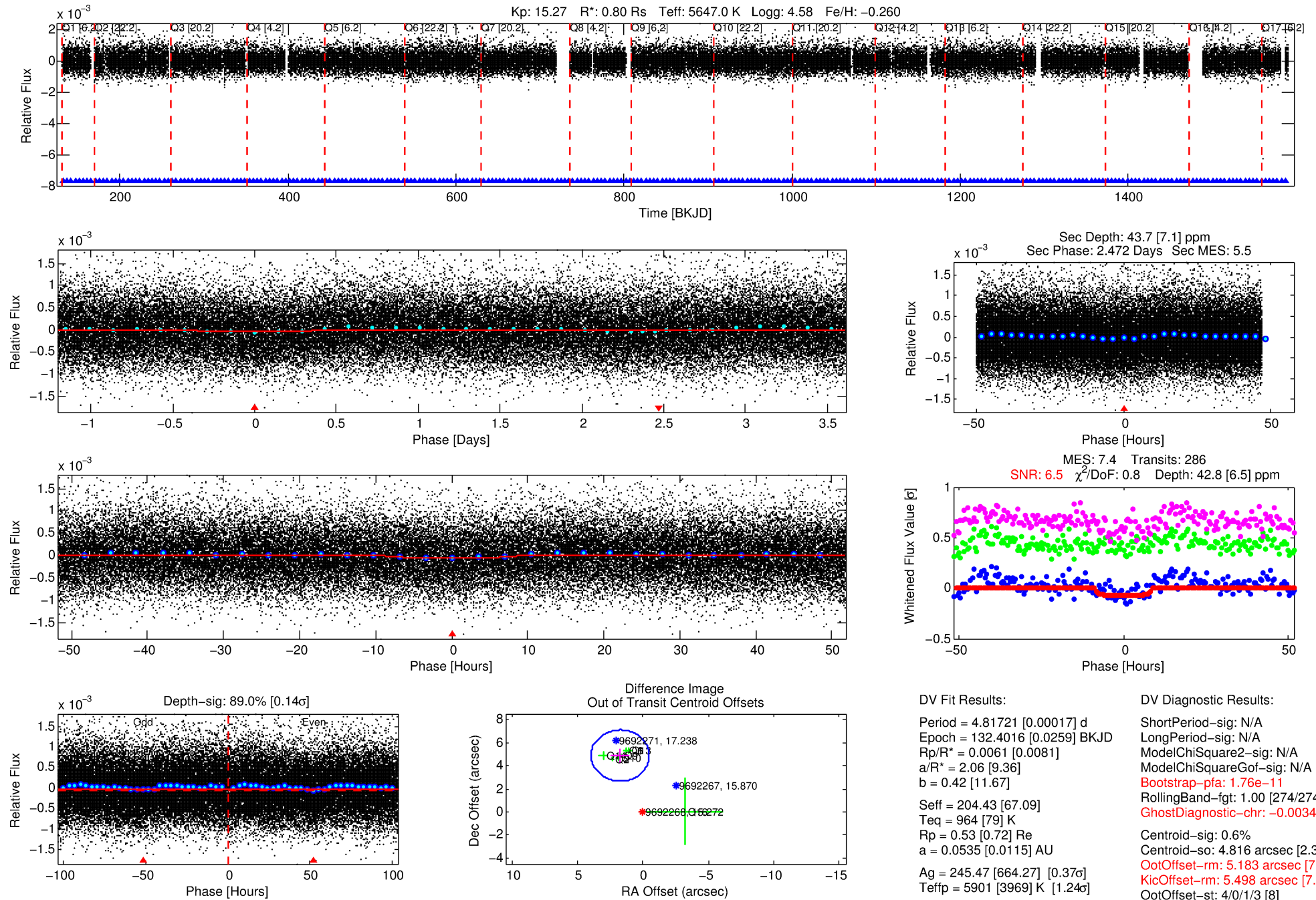
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009692268-01

No Significant Match Found

DV One-Page Summary

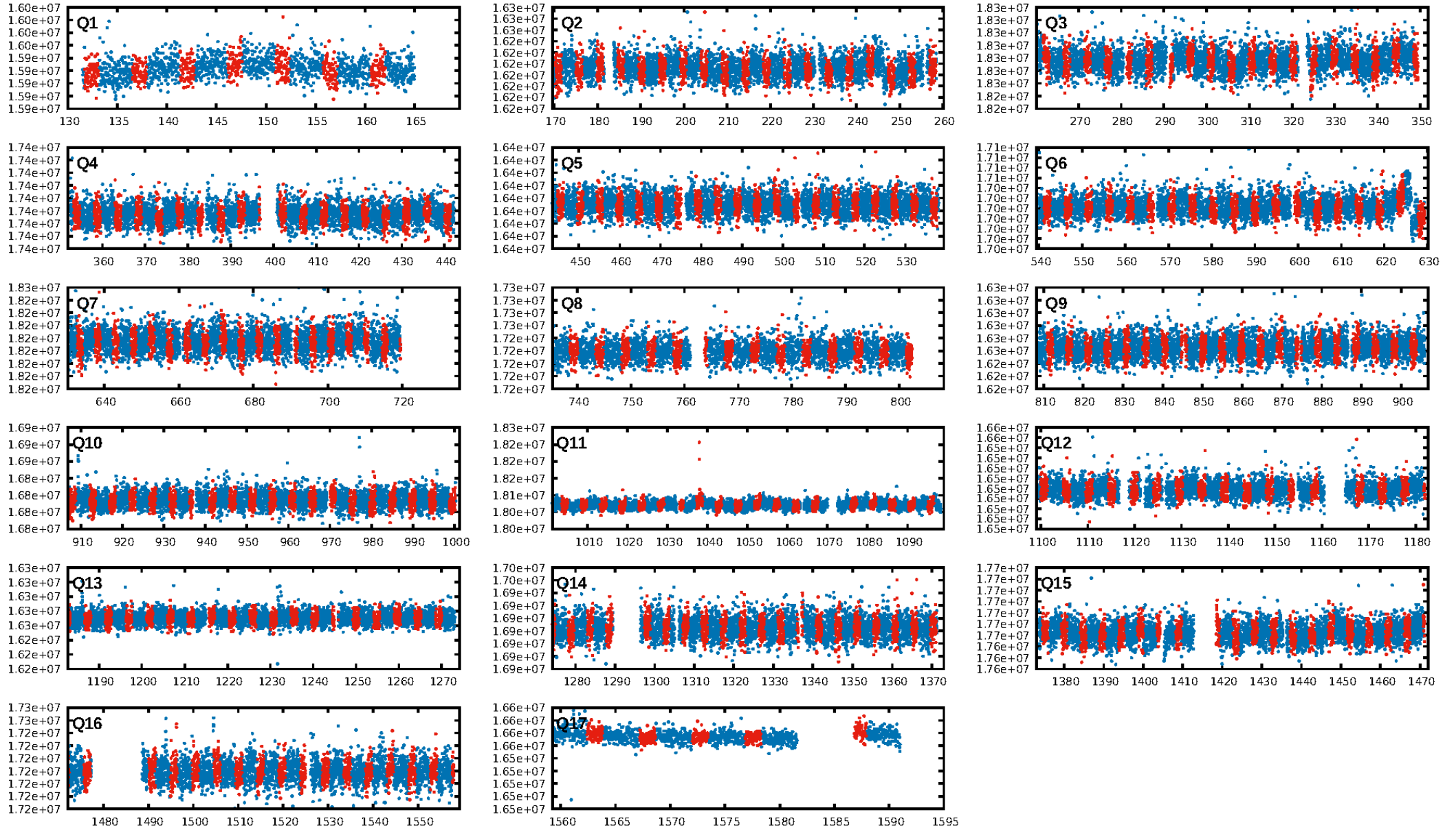
KIC: 9692268 Candidate: 1 of 1 Period: 4.817 d



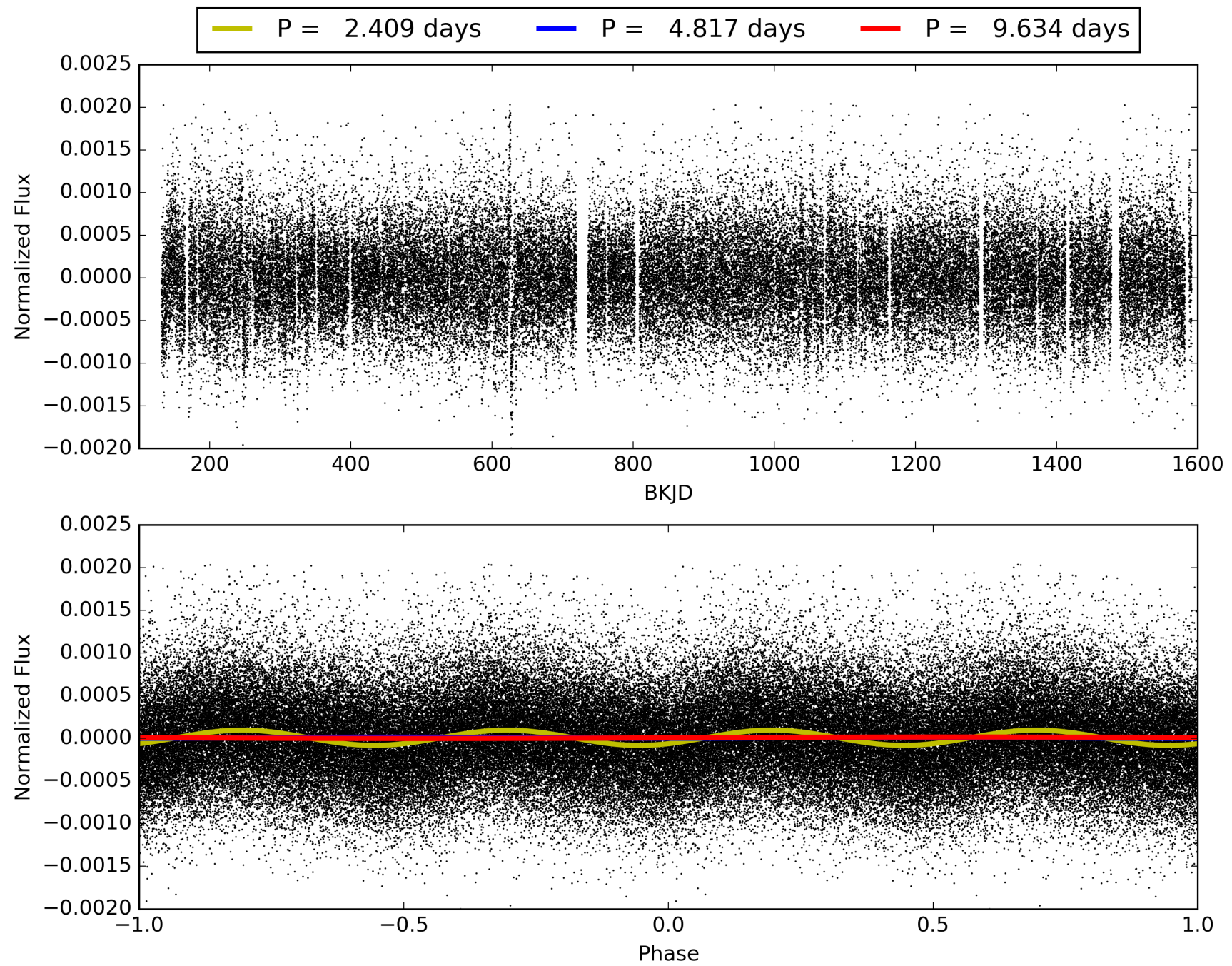
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:09:21 Z

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

TCE 009692268-01, PDC Light Curves

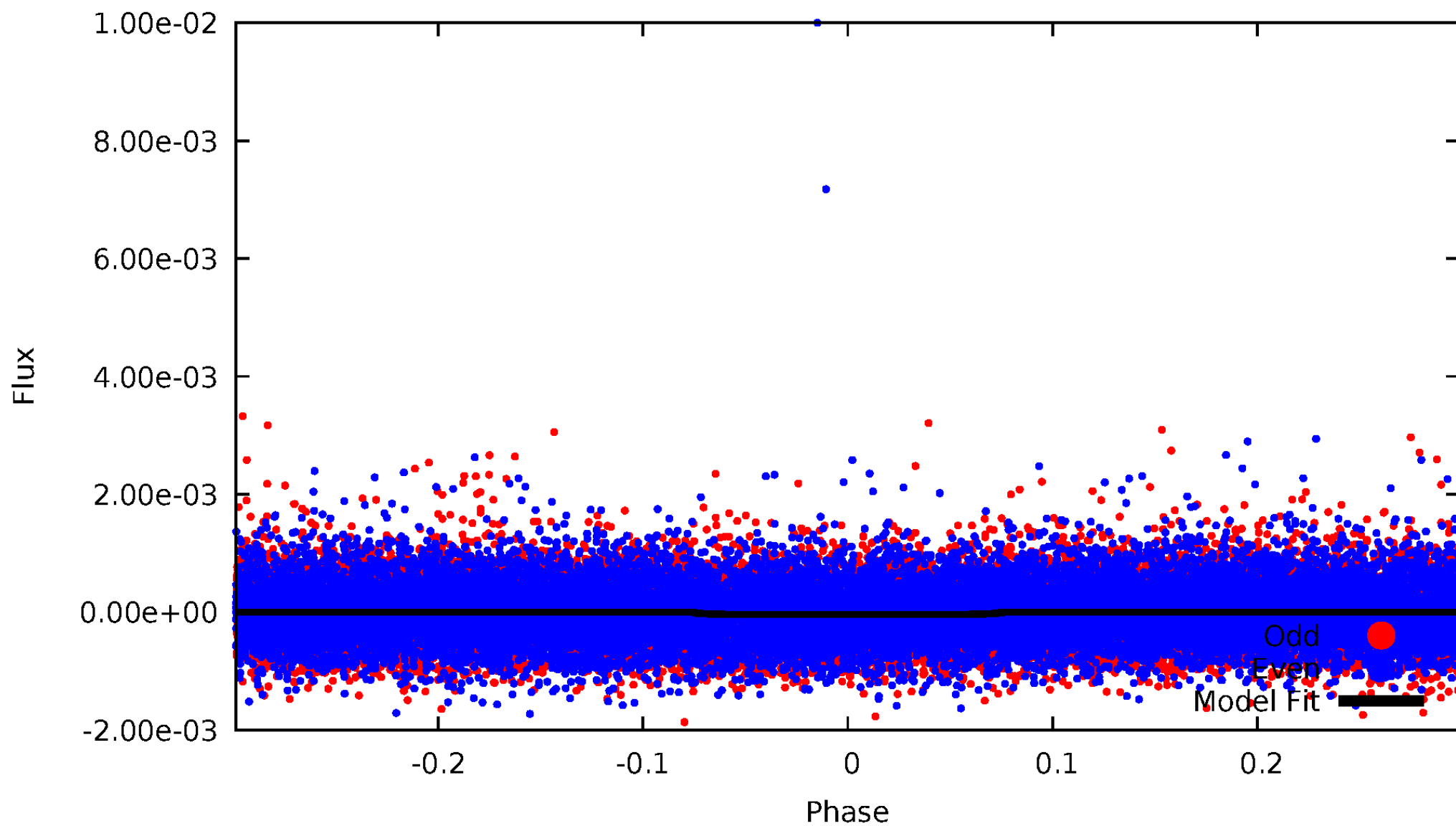


TCE 009692268-01



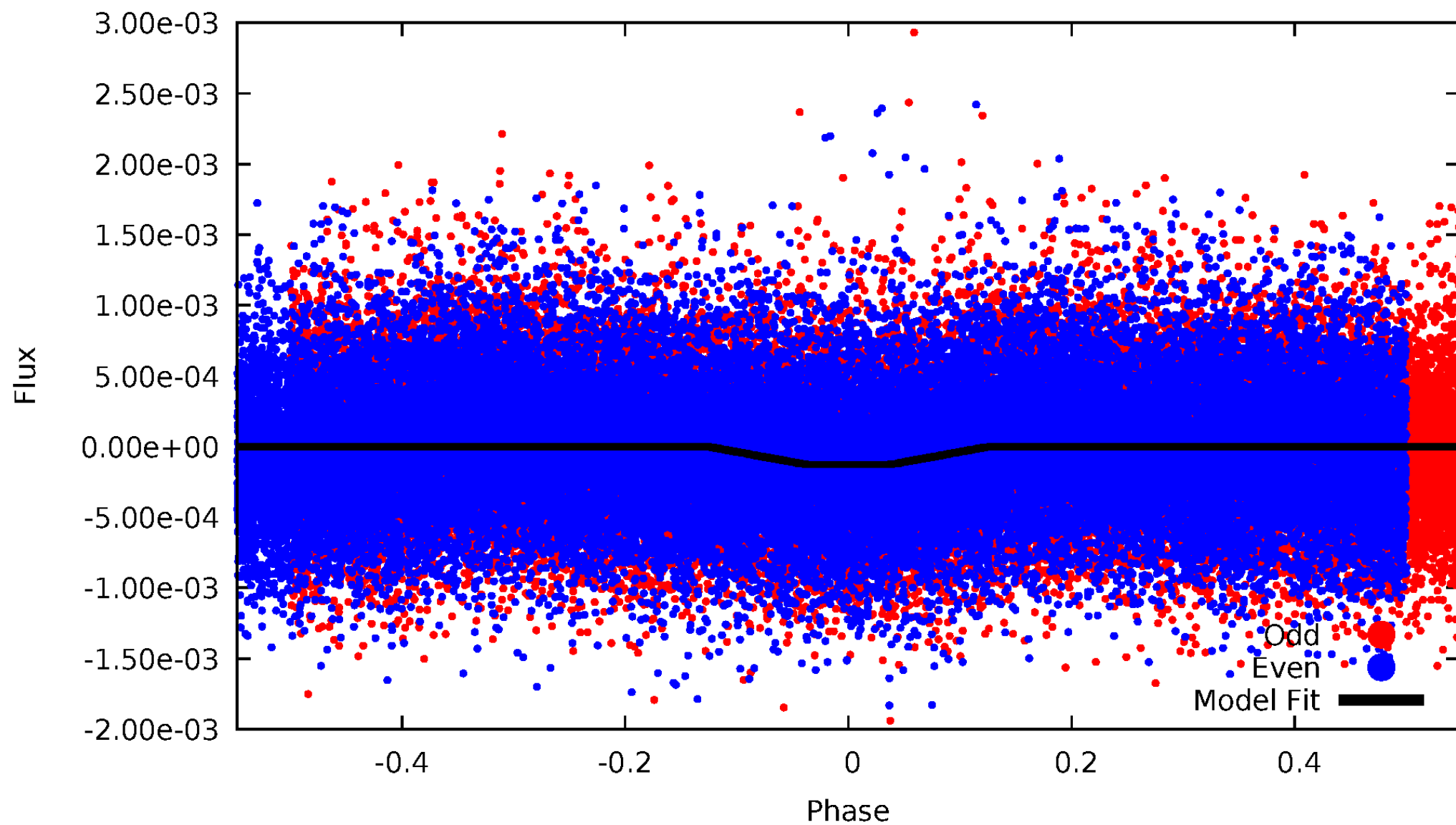
DV Odd/Even

TCE 009692268-01



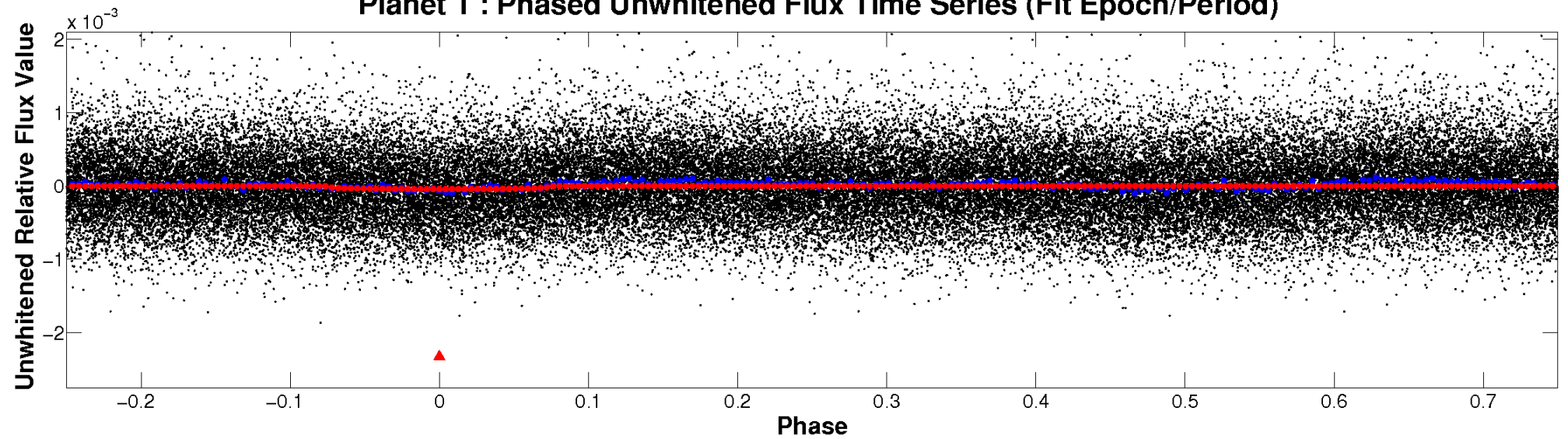
ALT Odd/Even

TCE 009692268-01

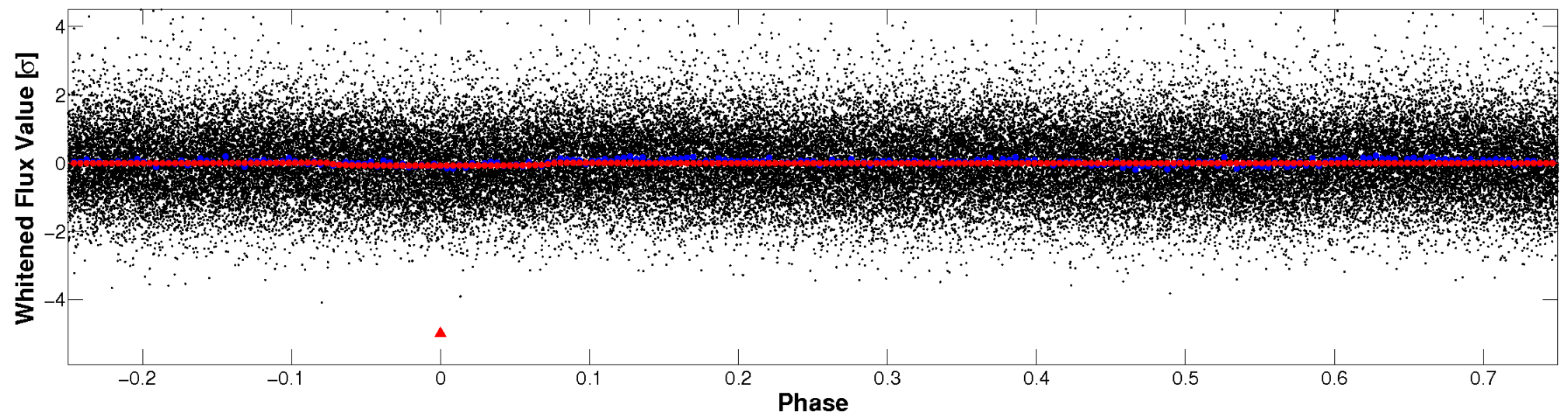


Non-Whitened Vs. Whitened Light Curve

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

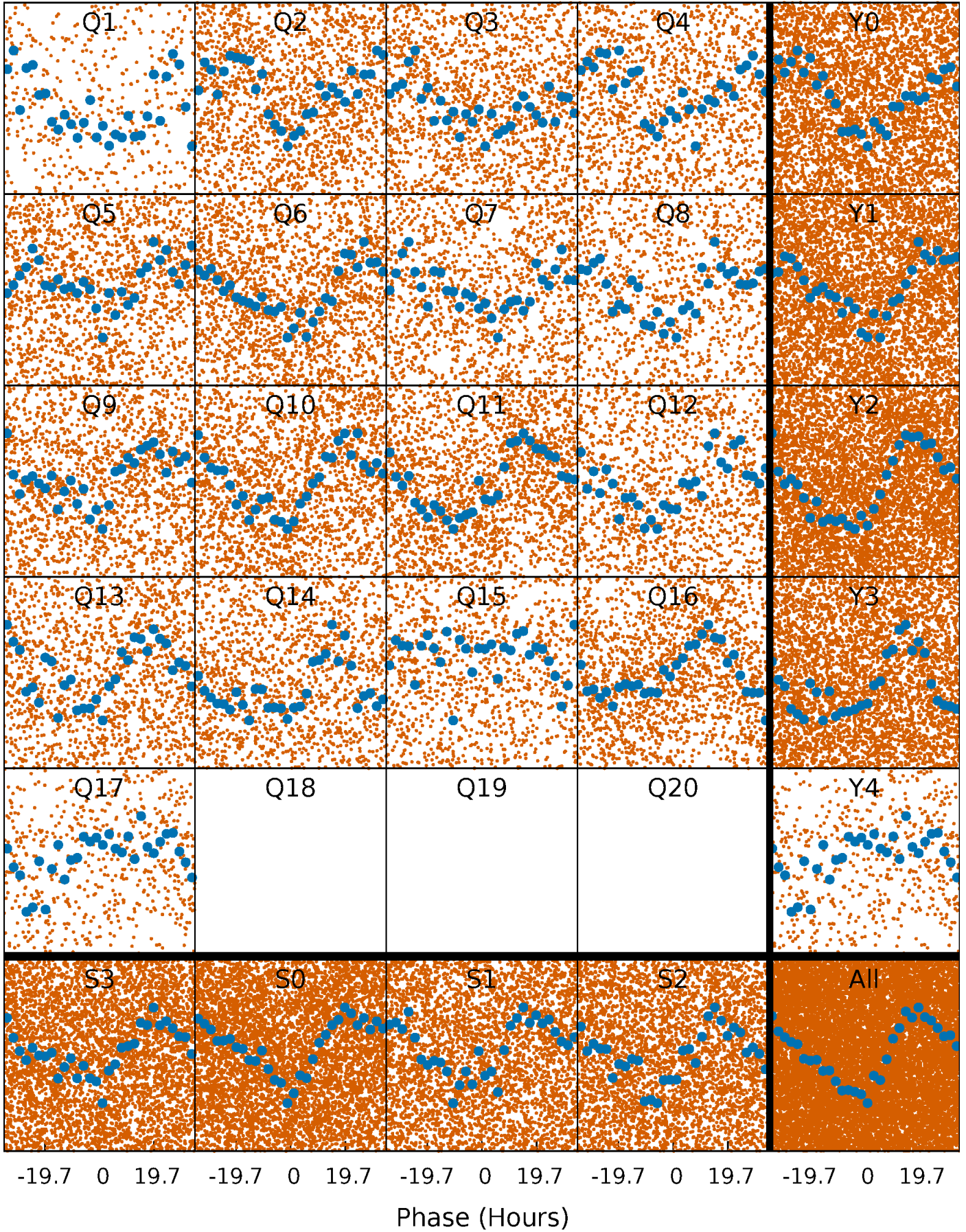


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



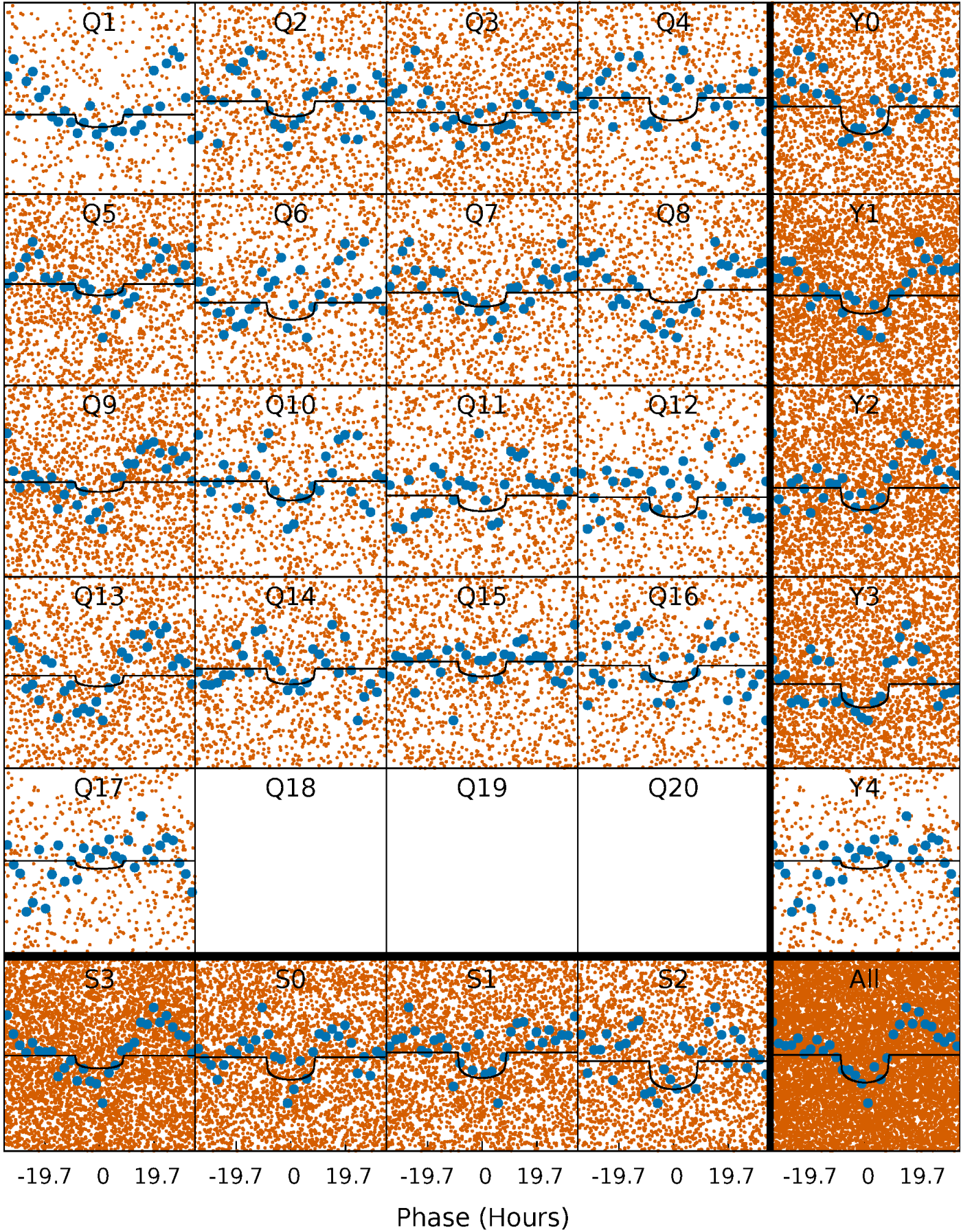
PDC Quarter-Phased Transit Curves

TCE 009692268-01 P= 4.817215 Days $T_0=132.401579$ (BKJD)



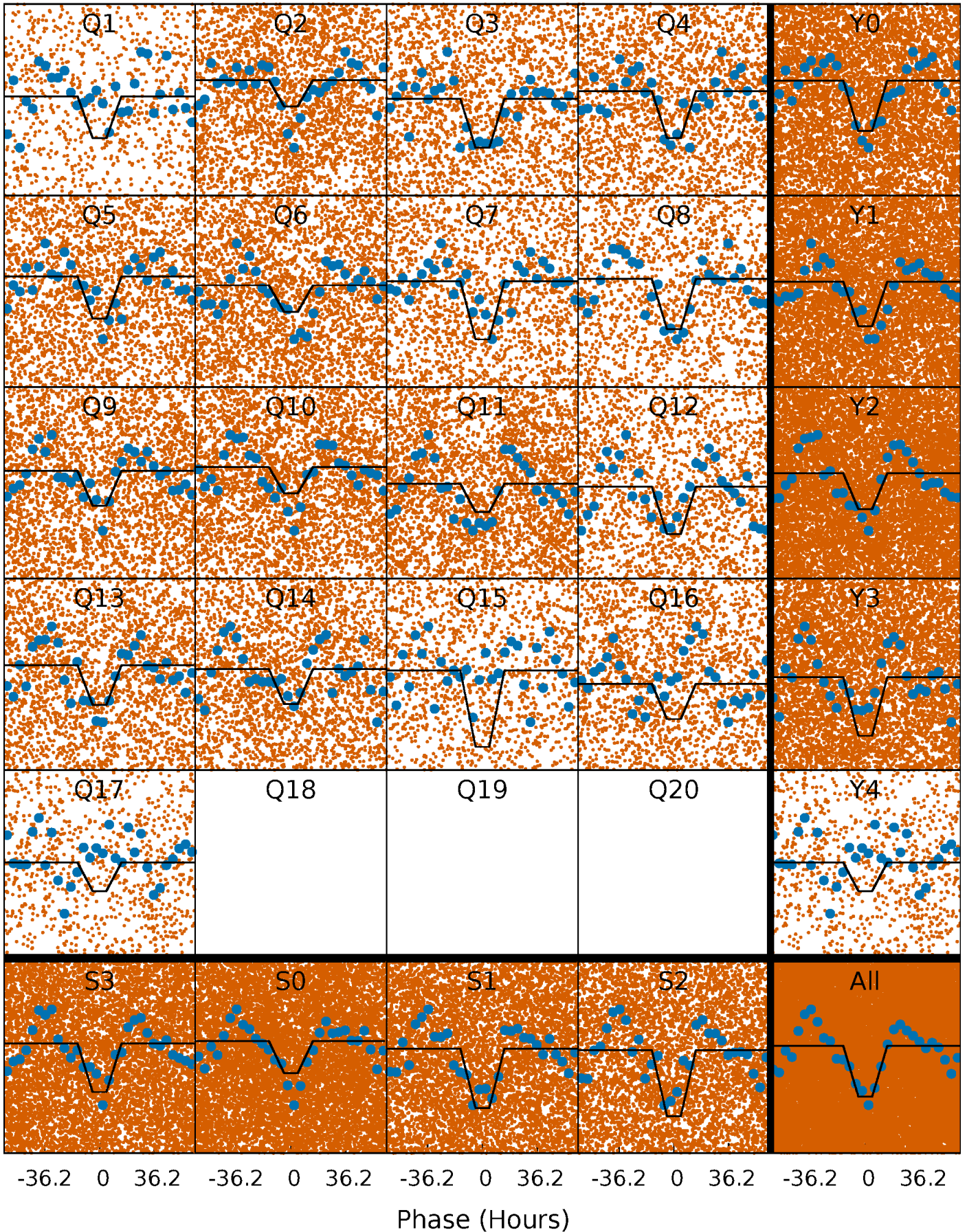
DV Quarter-Phased Transit Curves

TCE 009692268-01 P= 4.817215 Days $T_0=132.401579$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

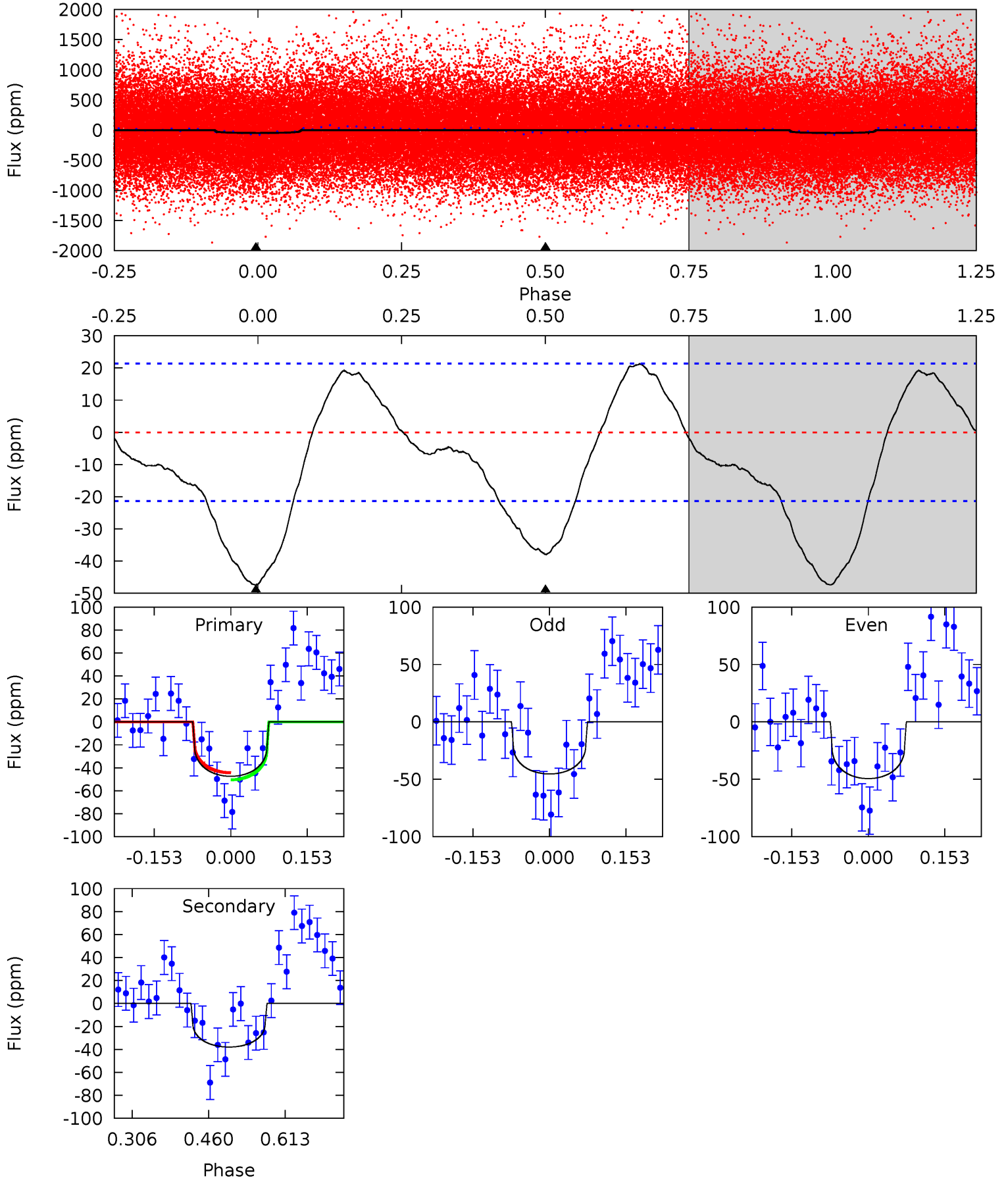
TCE 009692268-01 P= 4.817097 Days $T_0=132.309154$ (BKJD)



DV Model-Shift Uniqueness Test

009692268-01, P = 4.817215 Days, E = 127.584364 Days

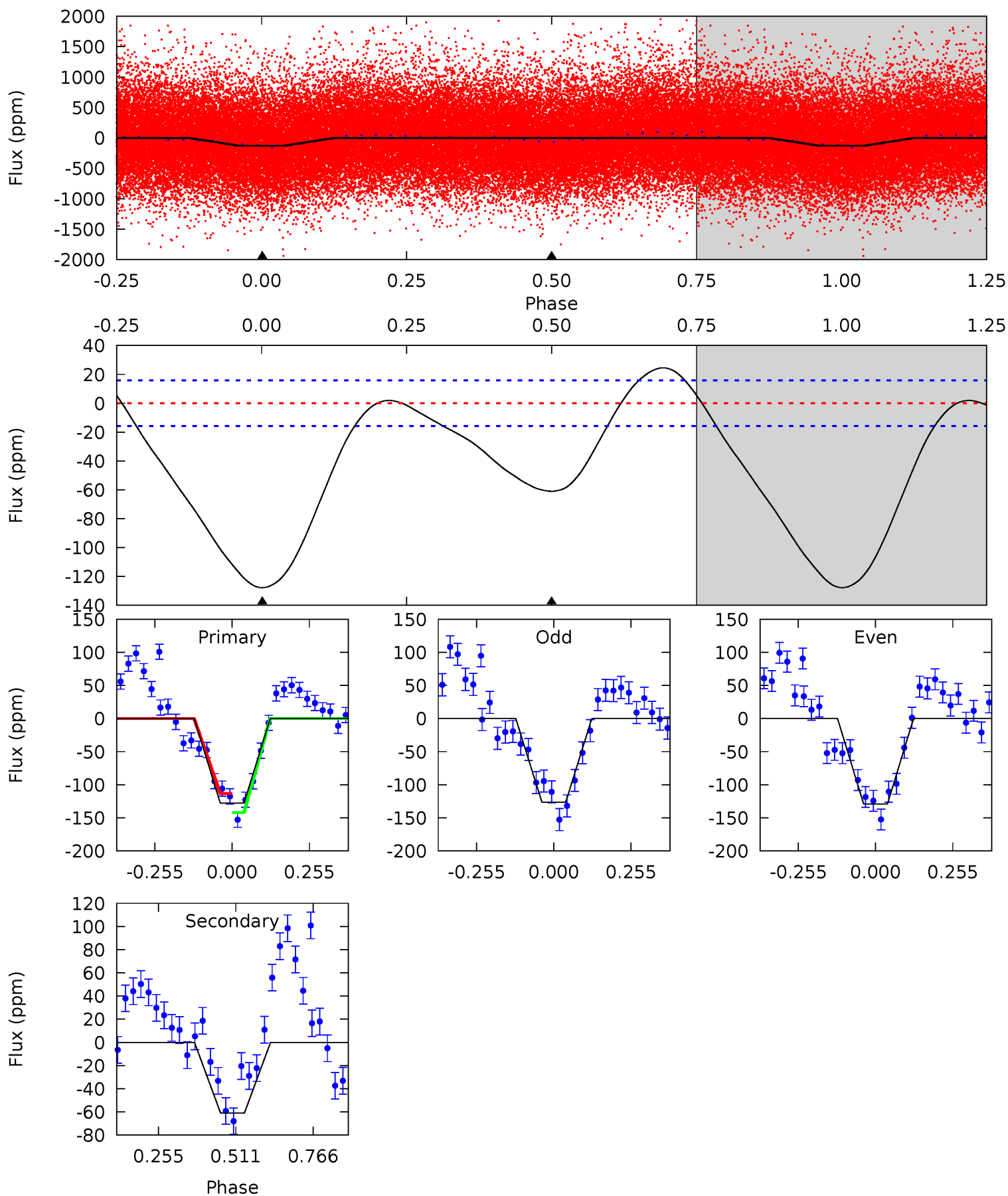
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.93	7.95	0	0	4.47	1.43	2.26	9.93	9.93	7.95	7.95	0.43	0.87	0.31	0.65



Alt Model-Shift Uniqueness Test

009692268-01, P = 4.817097 Days, E = 127.492057 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.3	16.8	0	0	4.36	1.14	1.97	35.3	35.3	16.8	16.8	0.36	0.95	0.16	3.95



Stellar Parameters For KIC 009692268

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5647^{+152}_{-152}	$4.575^{+0.042}_{-0.168}$	$-0.260^{+0.300}_{-0.300}$	$0.802^{+0.207}_{-0.065}$	$0.892^{+0.088}_{-0.097}$	$2.434^{+0.416}_{-1.143}$
	+3%/-3%	+1%/-4%	+115%/-115%	+26%/-8%	+10%/-11%	+17%/-47%
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 009692268-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-38 ± 5	$0.79^{+0.64}_{-0.51}$	1371^{+76}_{-54}	4814^{+3597}_{-952}	93^{+718}_{-65}
Alt.	-61 ± 4	$1.05^{+0.69}_{-0.55}$	1371^{+73}_{-52}	4751^{+2046}_{-826}	85^{+297}_{-53}

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 $A_{obs} \gg 1.0$

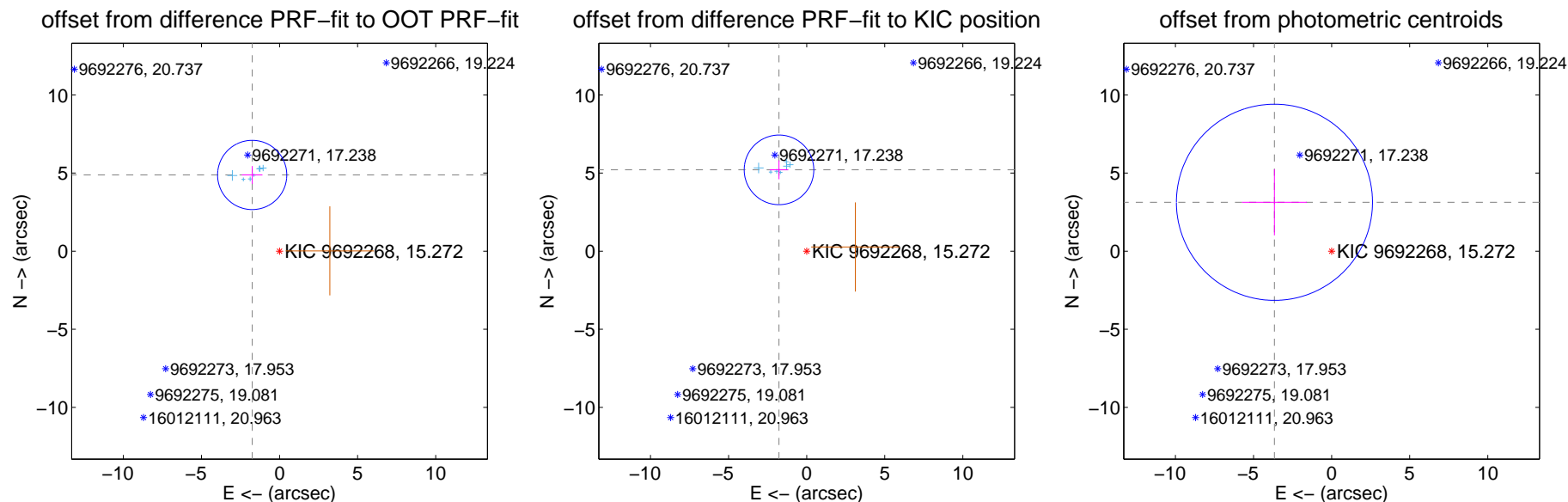
DV Centroid Data

Supplemental centroid analysis for 009692268-01. Kepler magnitude: 15.27. Transit SNR 6.50

There are 7 quarters with good PRF difference image offsets

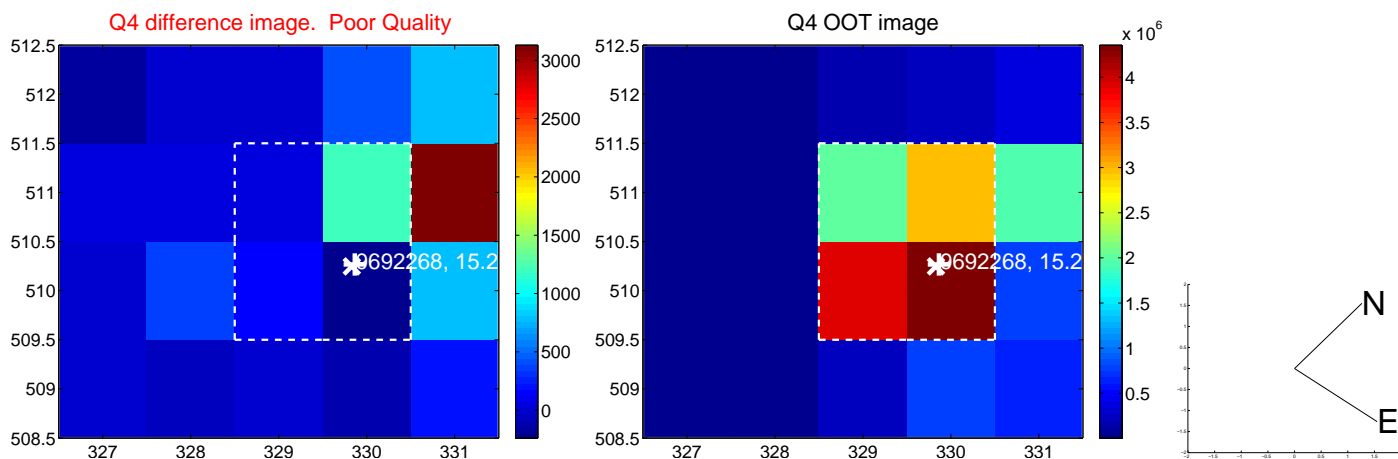
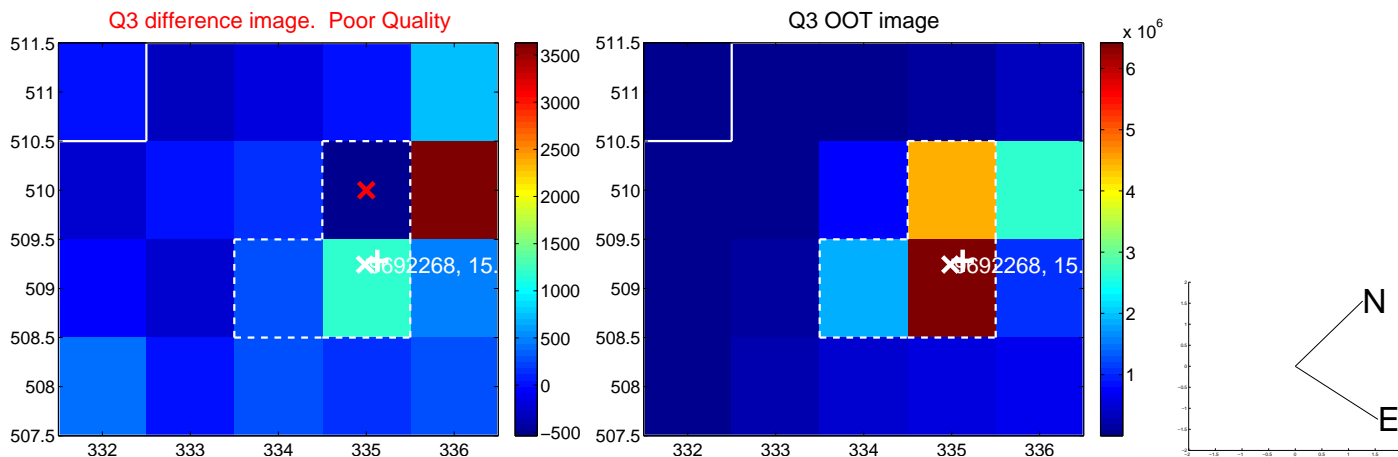
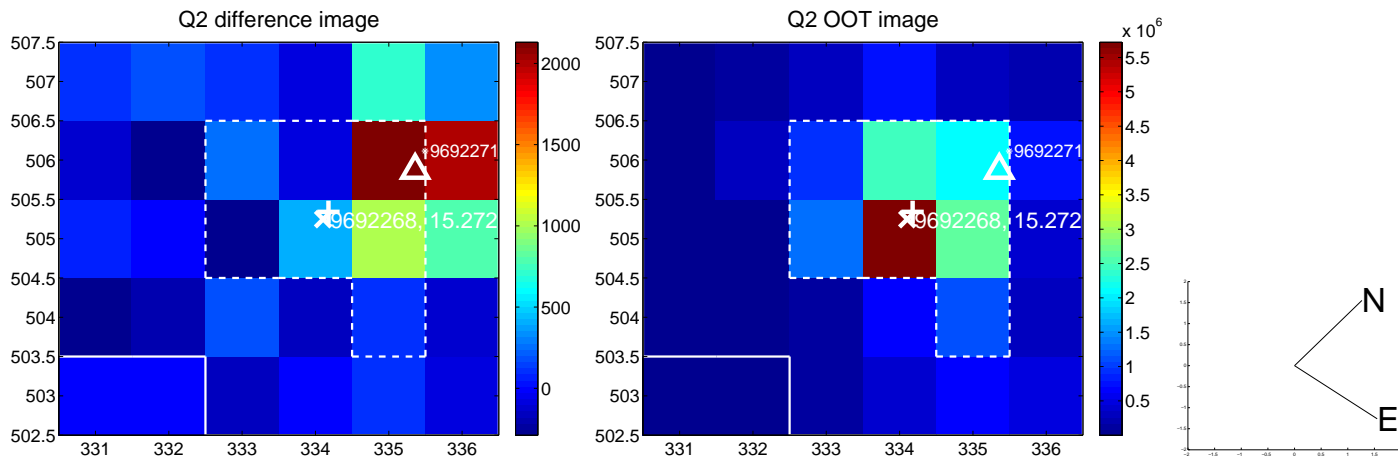
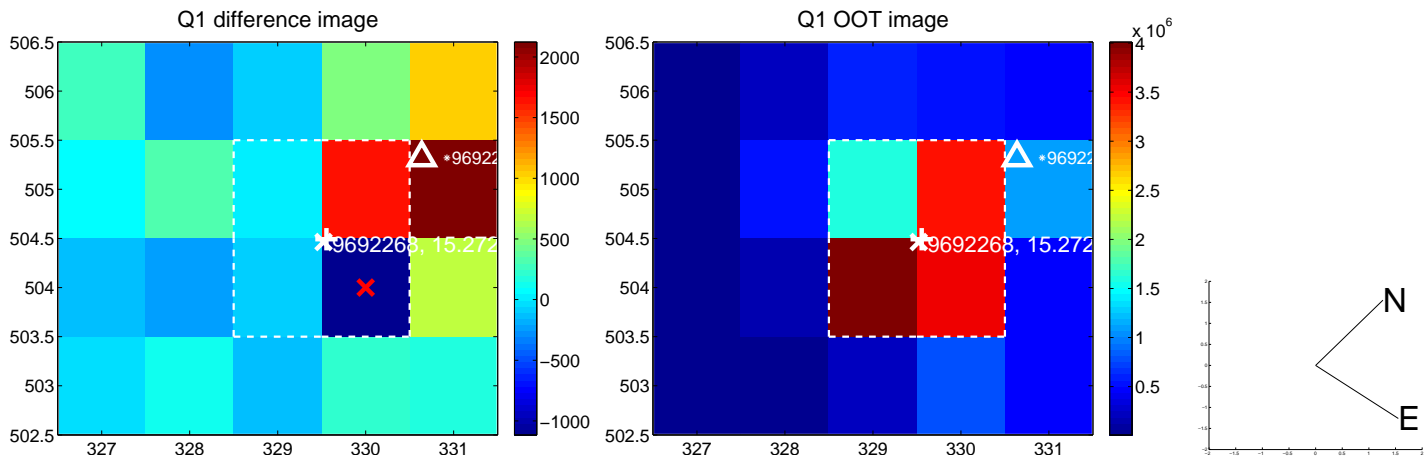
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.183 \pm 0.739	7.02	1.751 \pm 0.657	4.879 \pm 0.570
PRF-fit source offset from KIC position	5.498 \pm 0.743	7.40	1.773 \pm 0.595	5.205 \pm 0.600
photometric centroid source offset	4.82 \pm 2.09	2.30	3.66 \pm 2.08	3.13 \pm 2.12

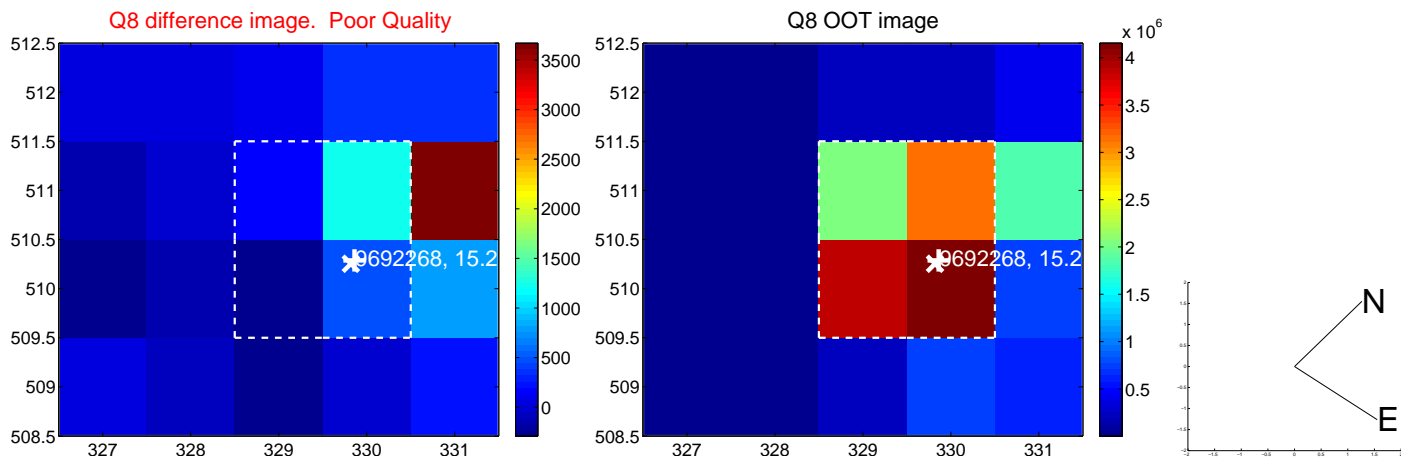
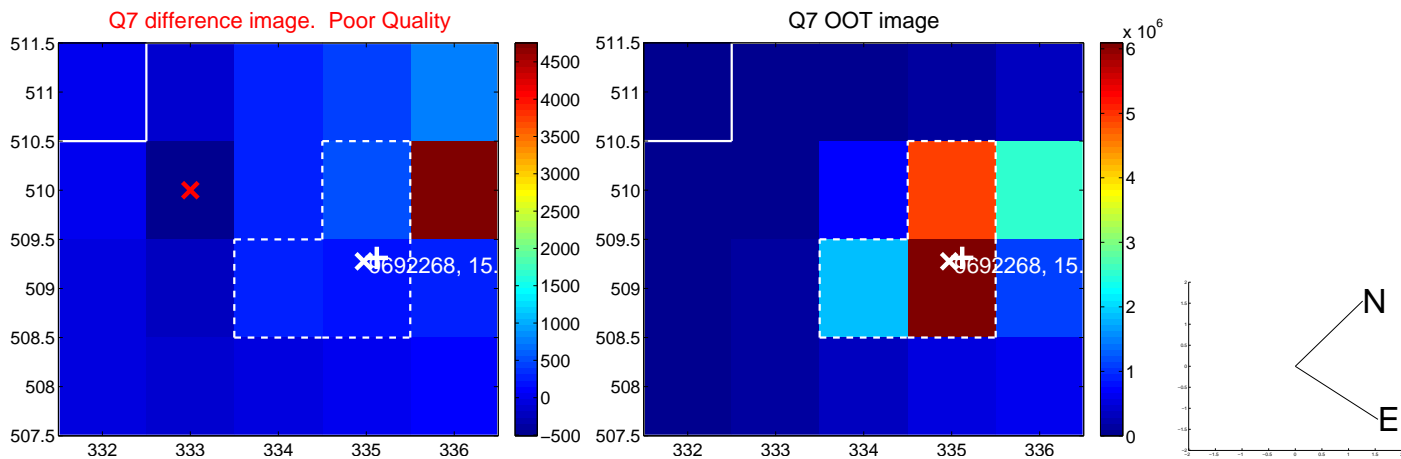
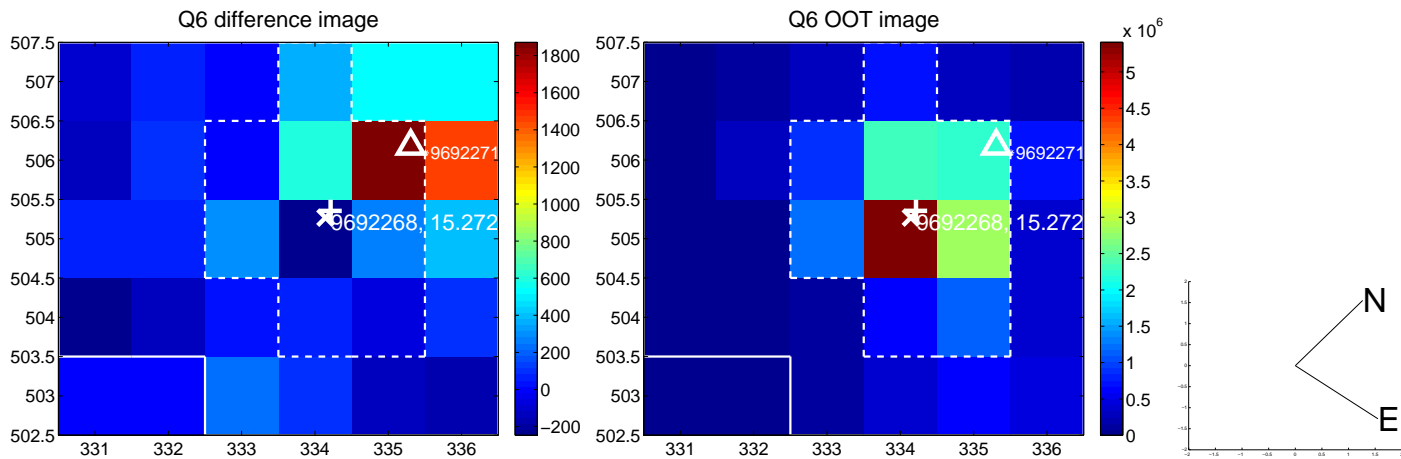
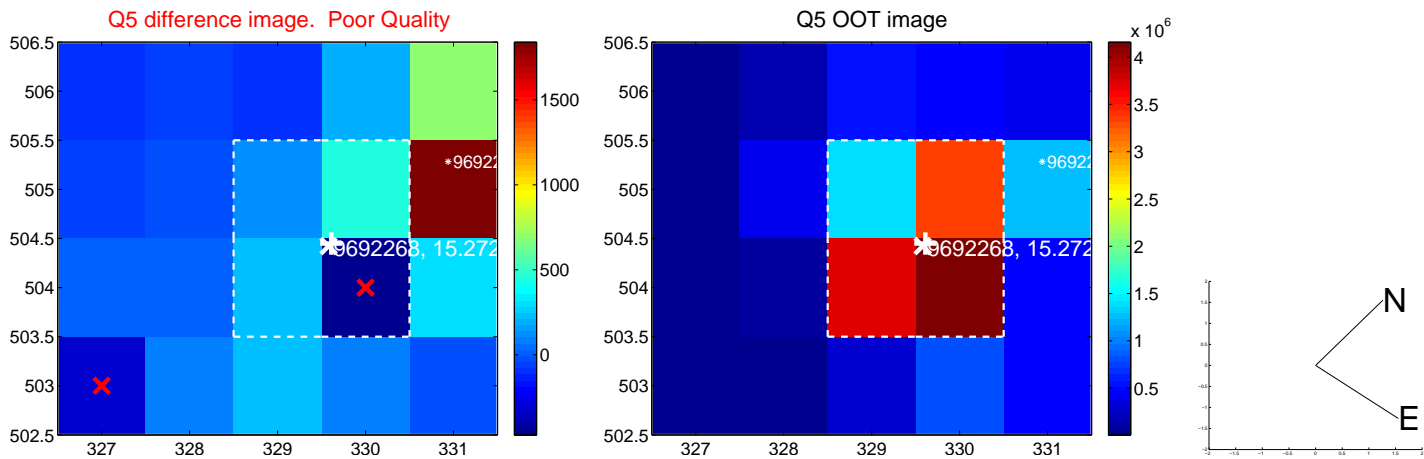


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

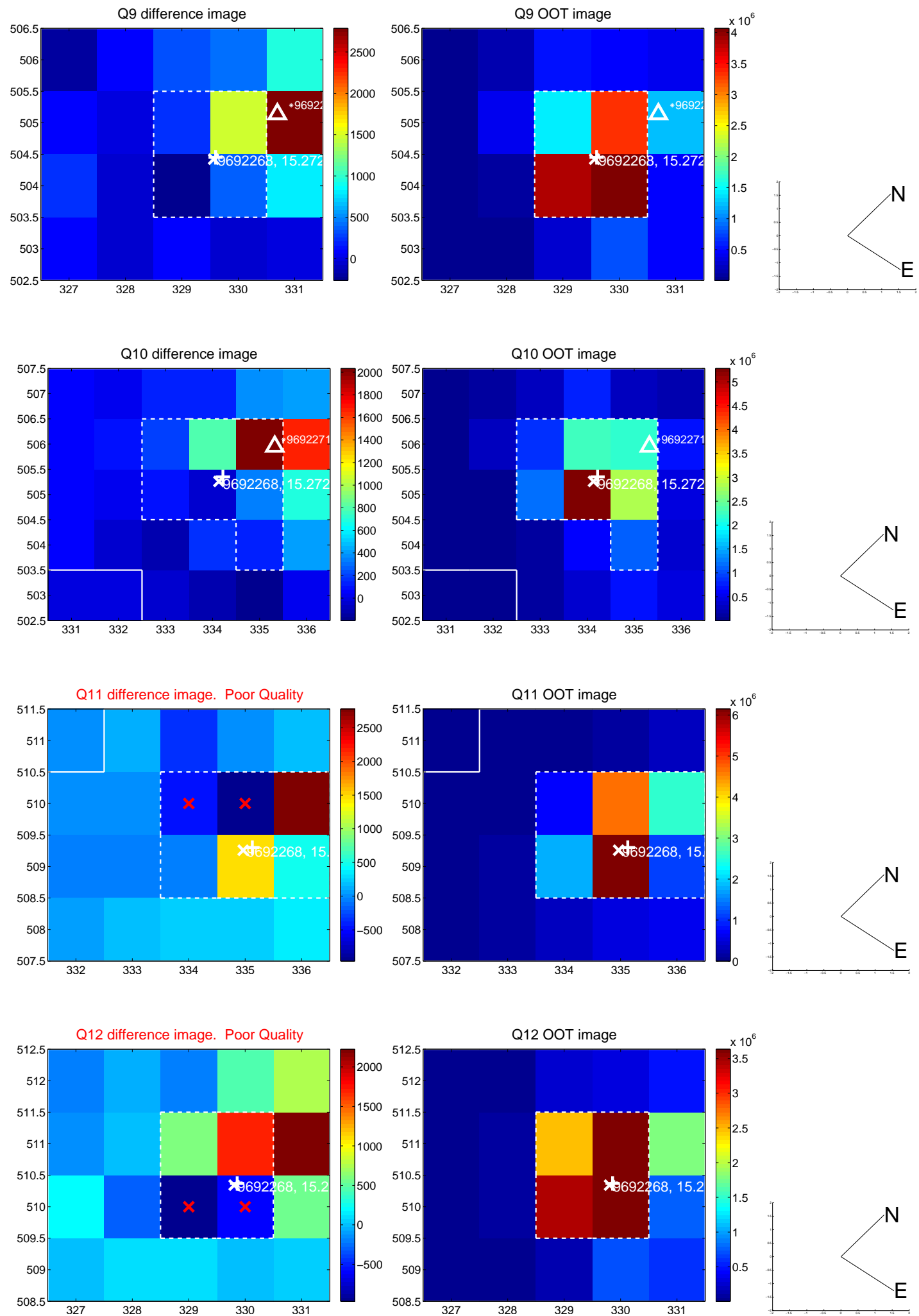
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



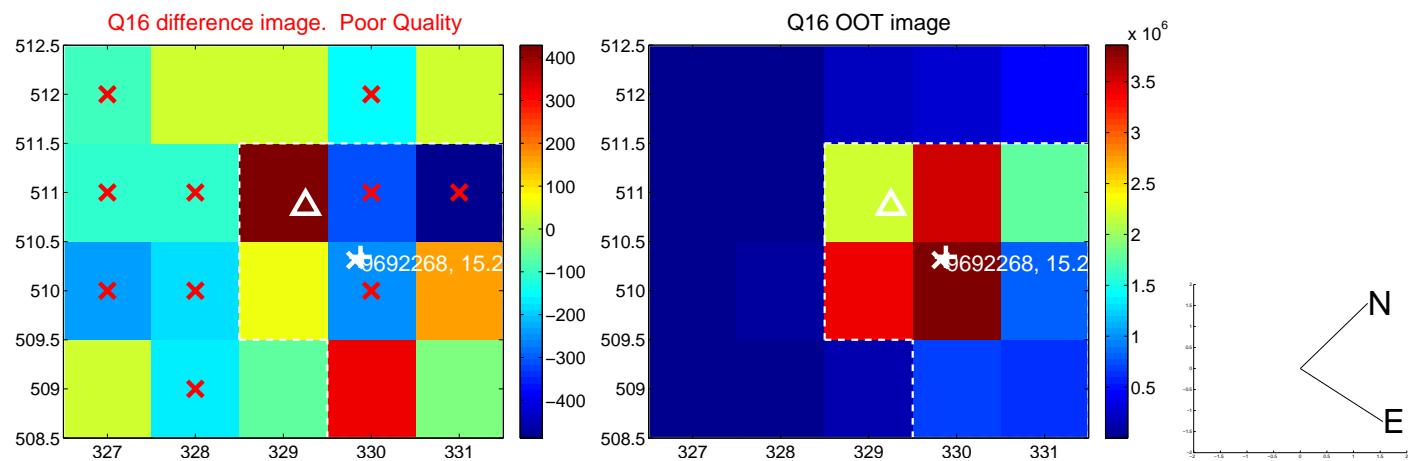
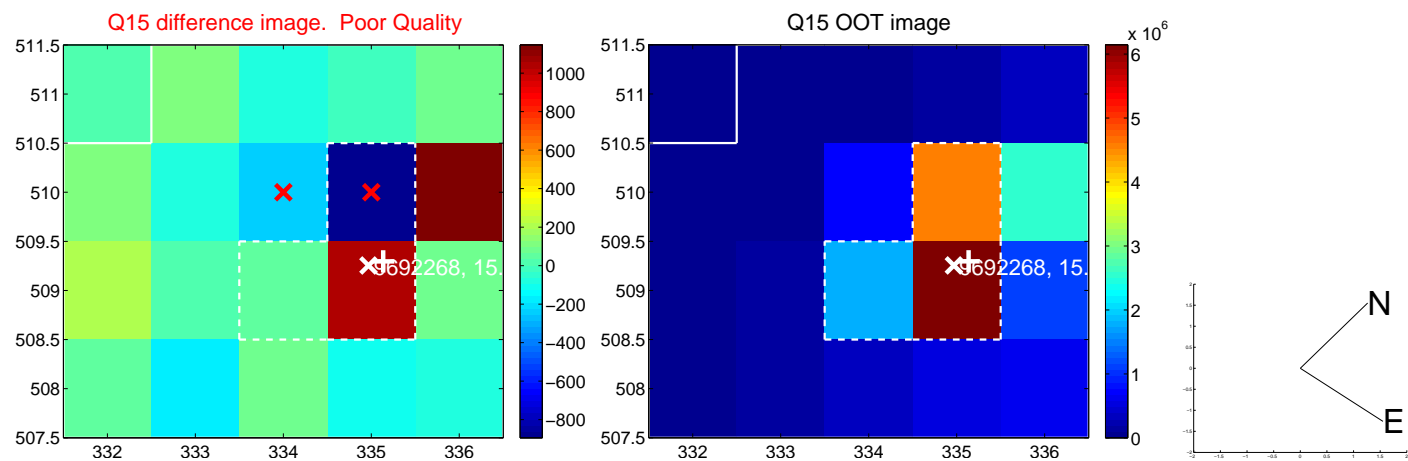
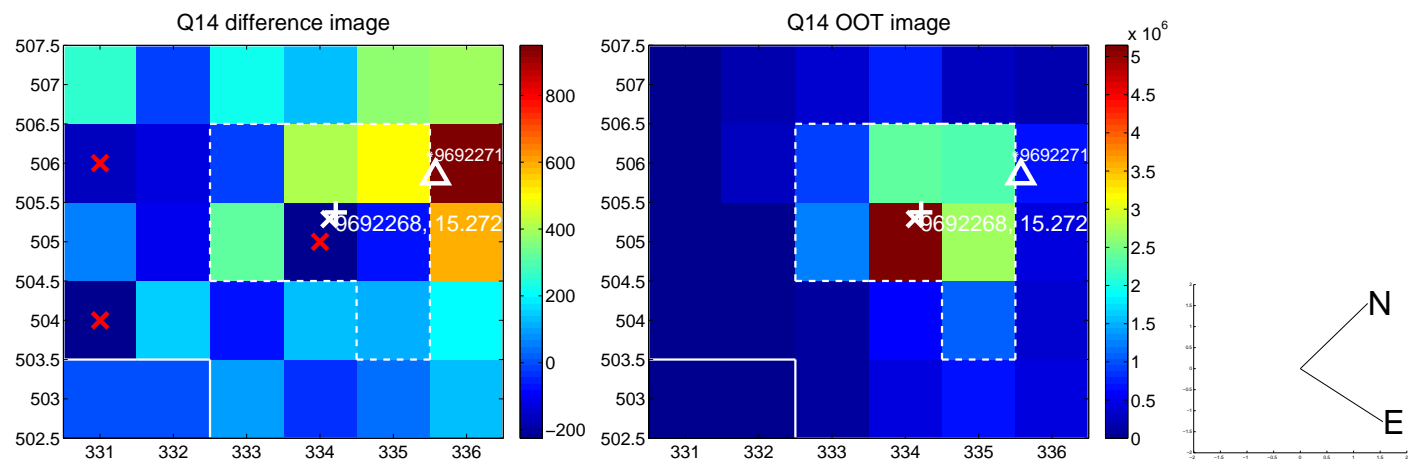
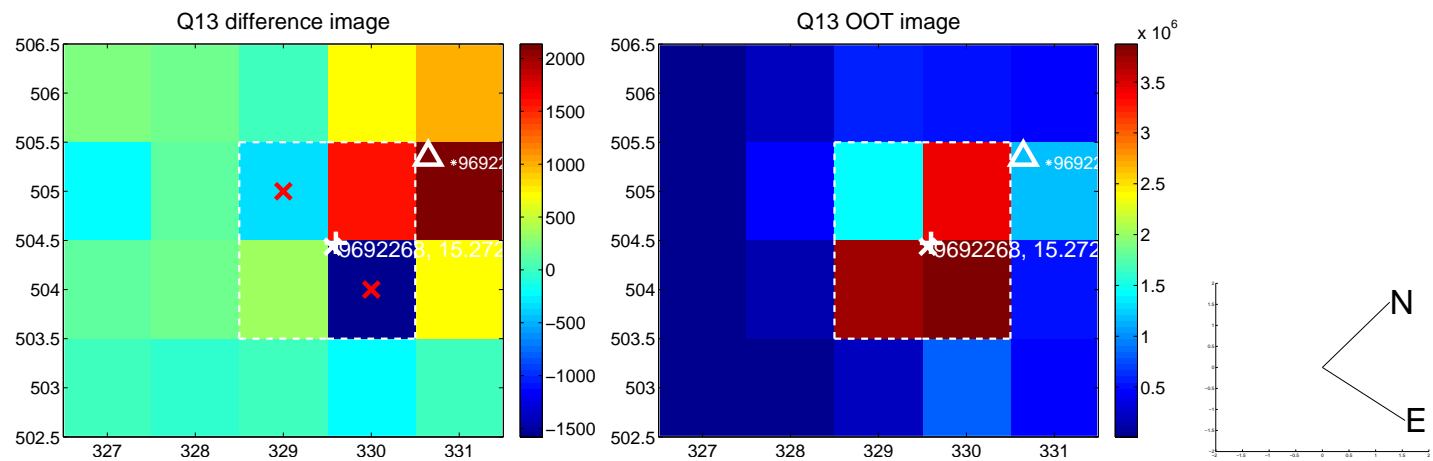
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

