

KIC 008264565

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})
008264565-01	OBS	No	1.034103	131.824499	14.1	8.461	9.0	1.5	1.41	7225	0.54	9767.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264565-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_RESOLVED_OFFSET

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

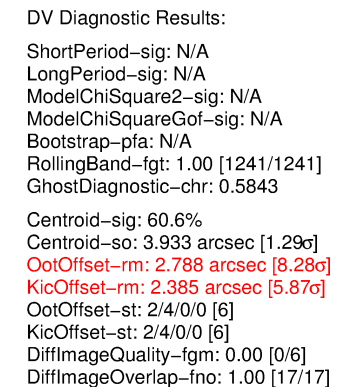
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

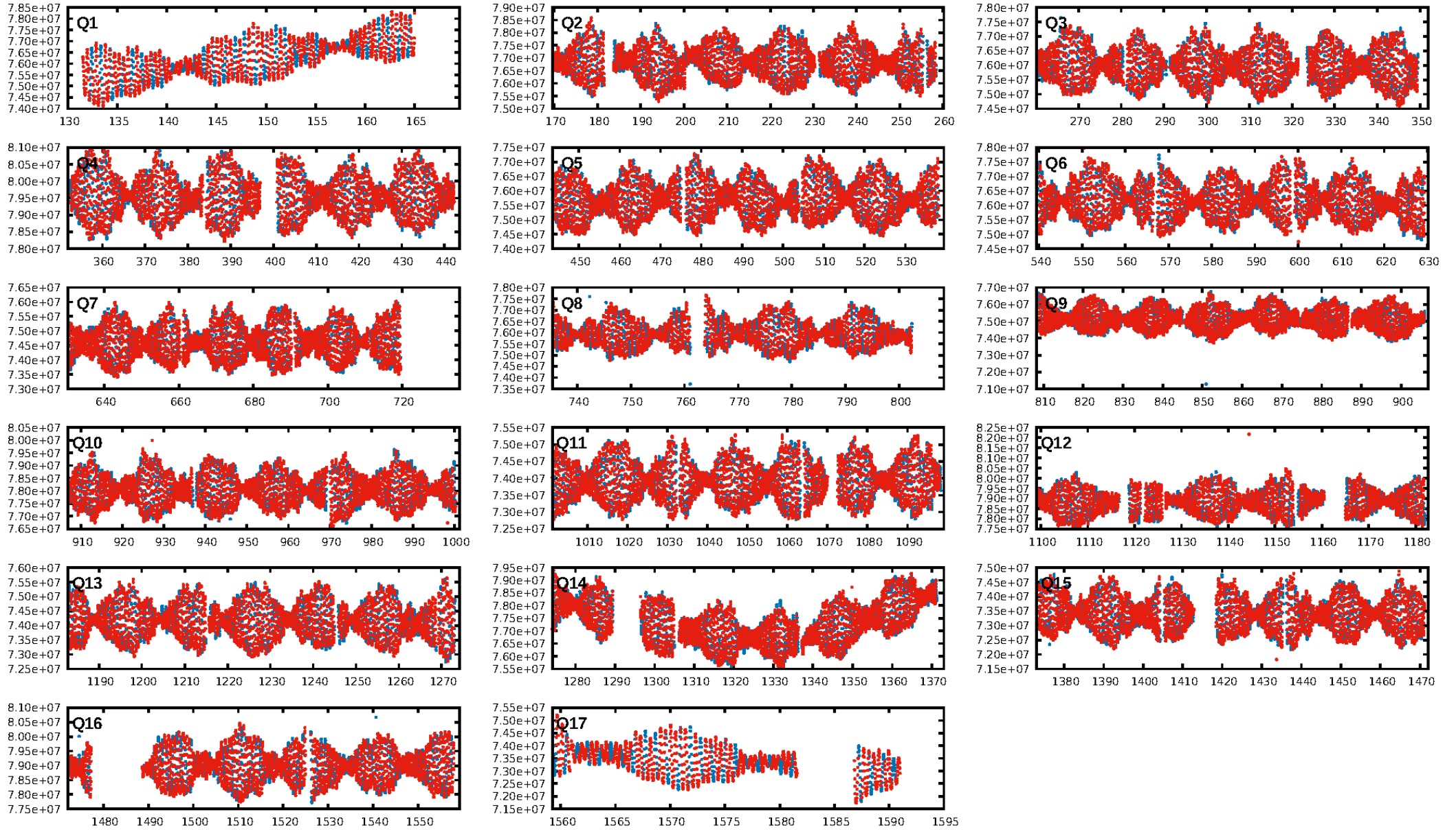
Ephemeris Match Information For 008264565-01

No Significant Match Found

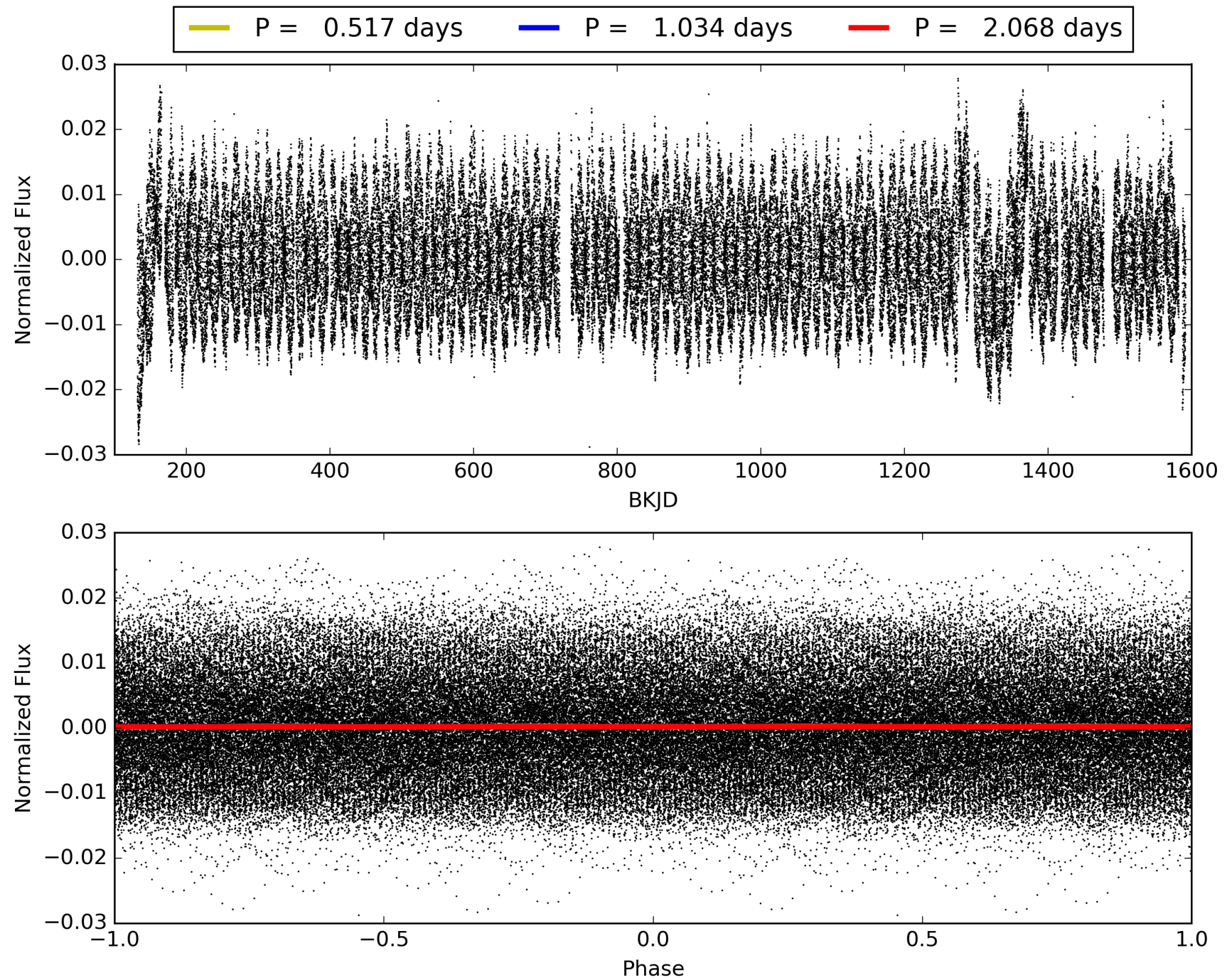
KIC: 8264565 Candidate: 1 of 1 Period: 1.034 d



TCE 008264565-01, PDC Light Curves

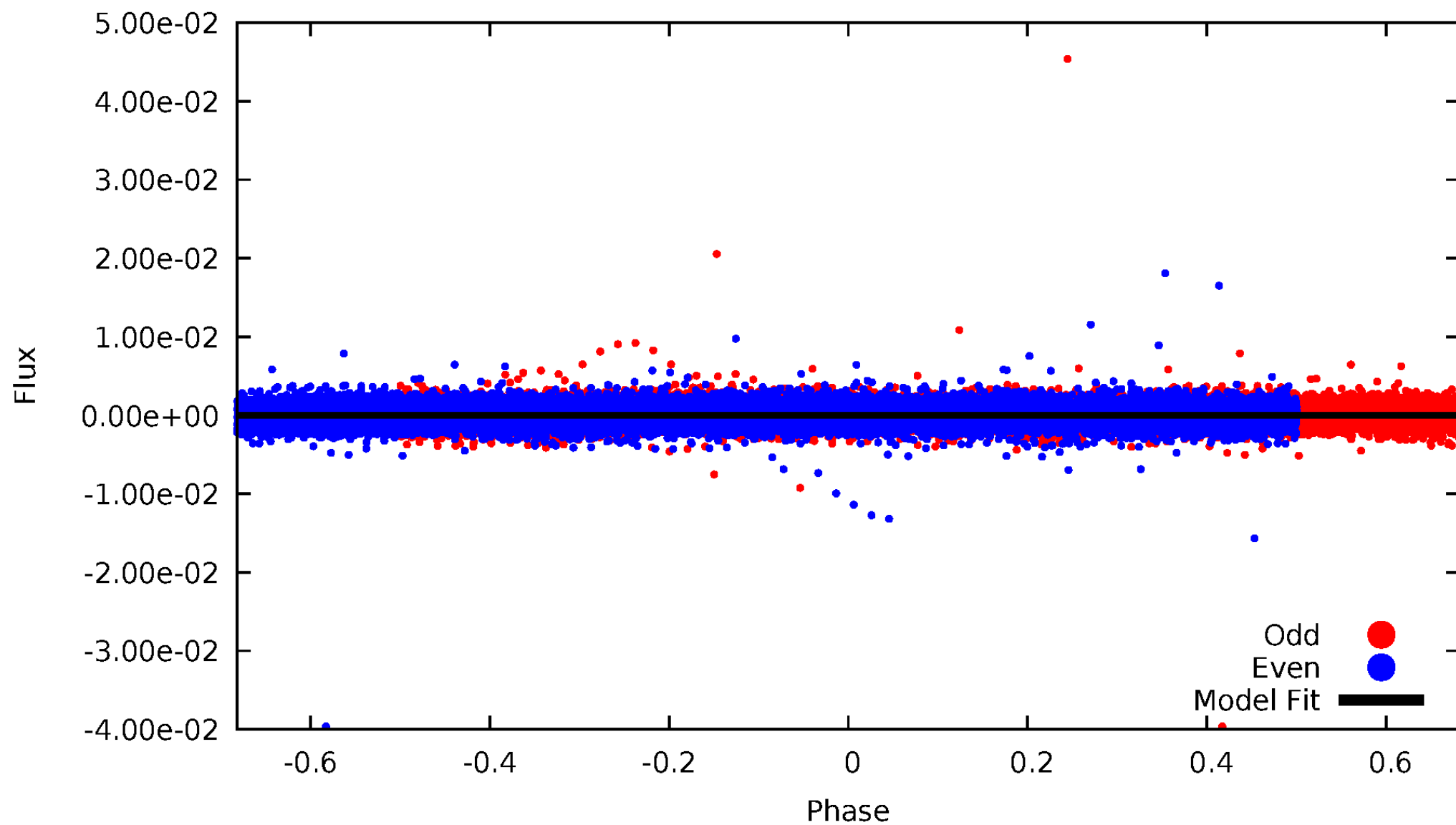


TCE 008264565-01



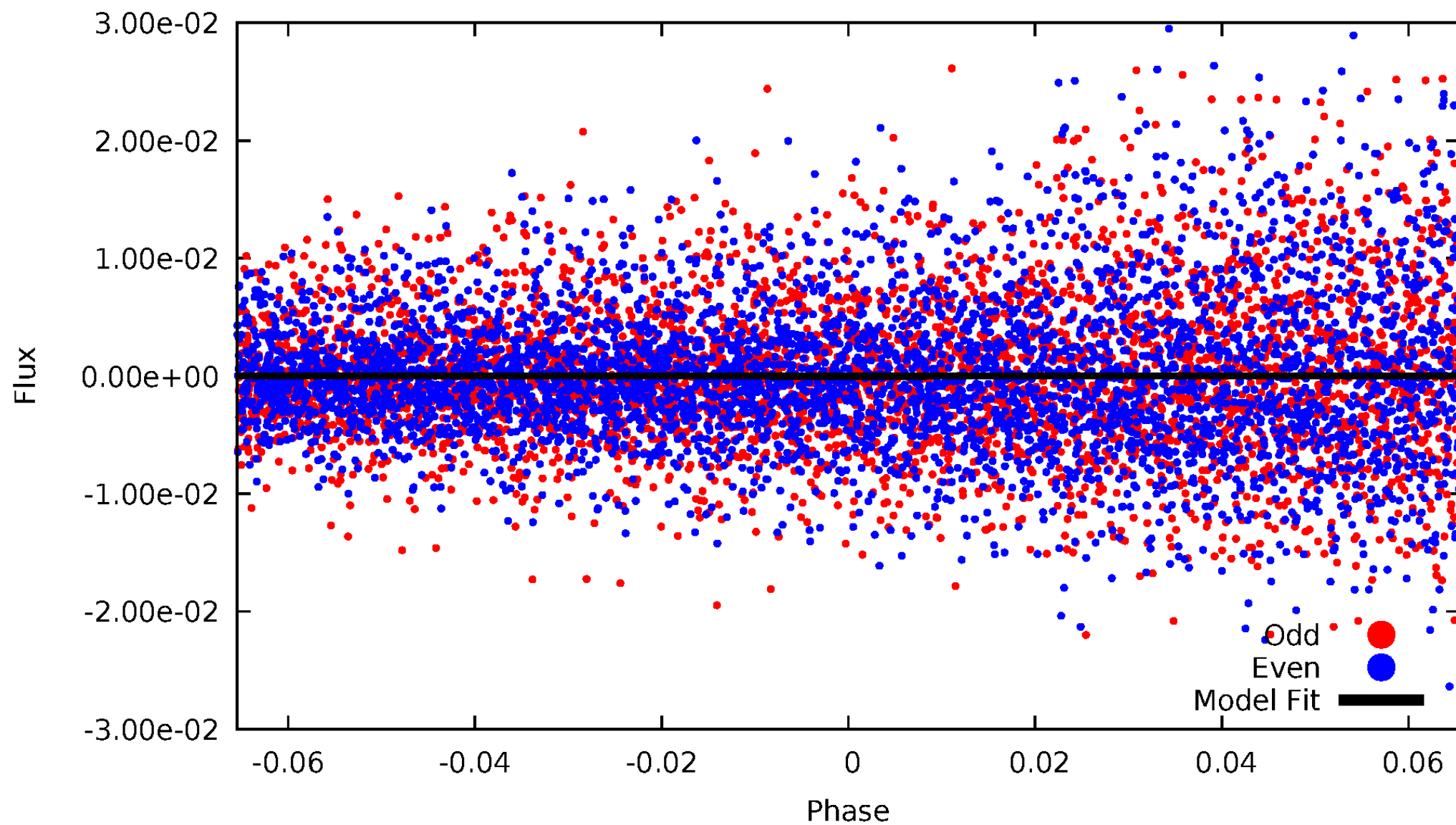
DV Odd/Even

TCE 008264565-01



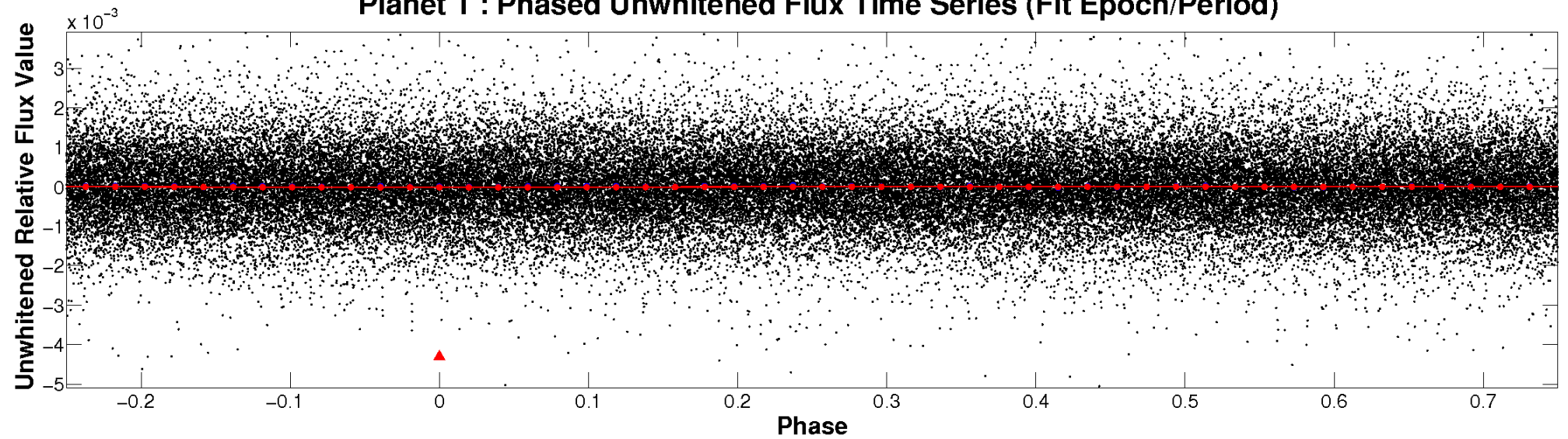
ALT Odd/Even

TCE 008264565-01

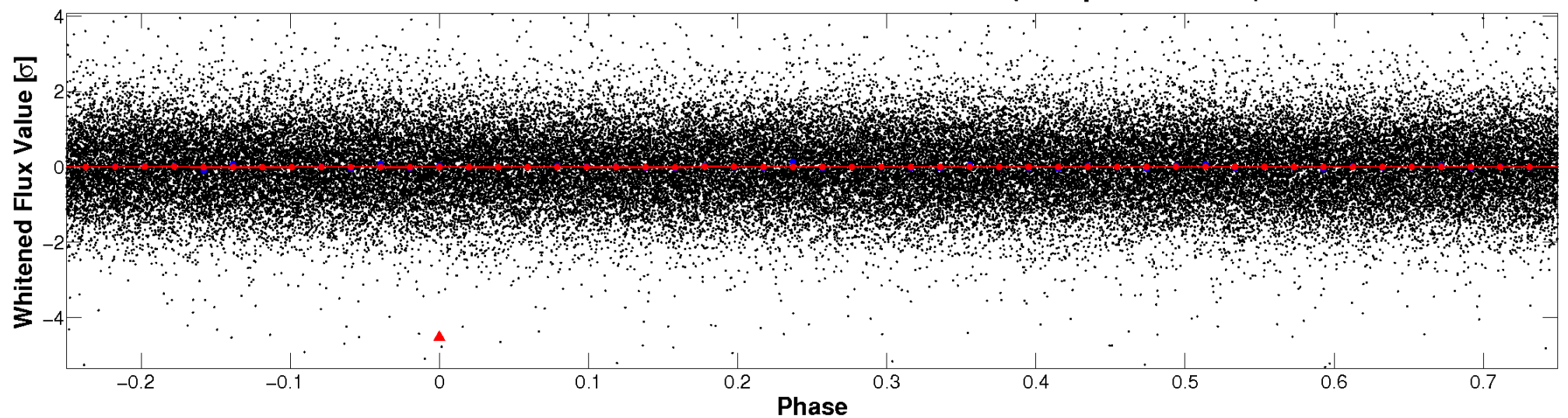


Non-Whitened Vs. Whitened Light Curve

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

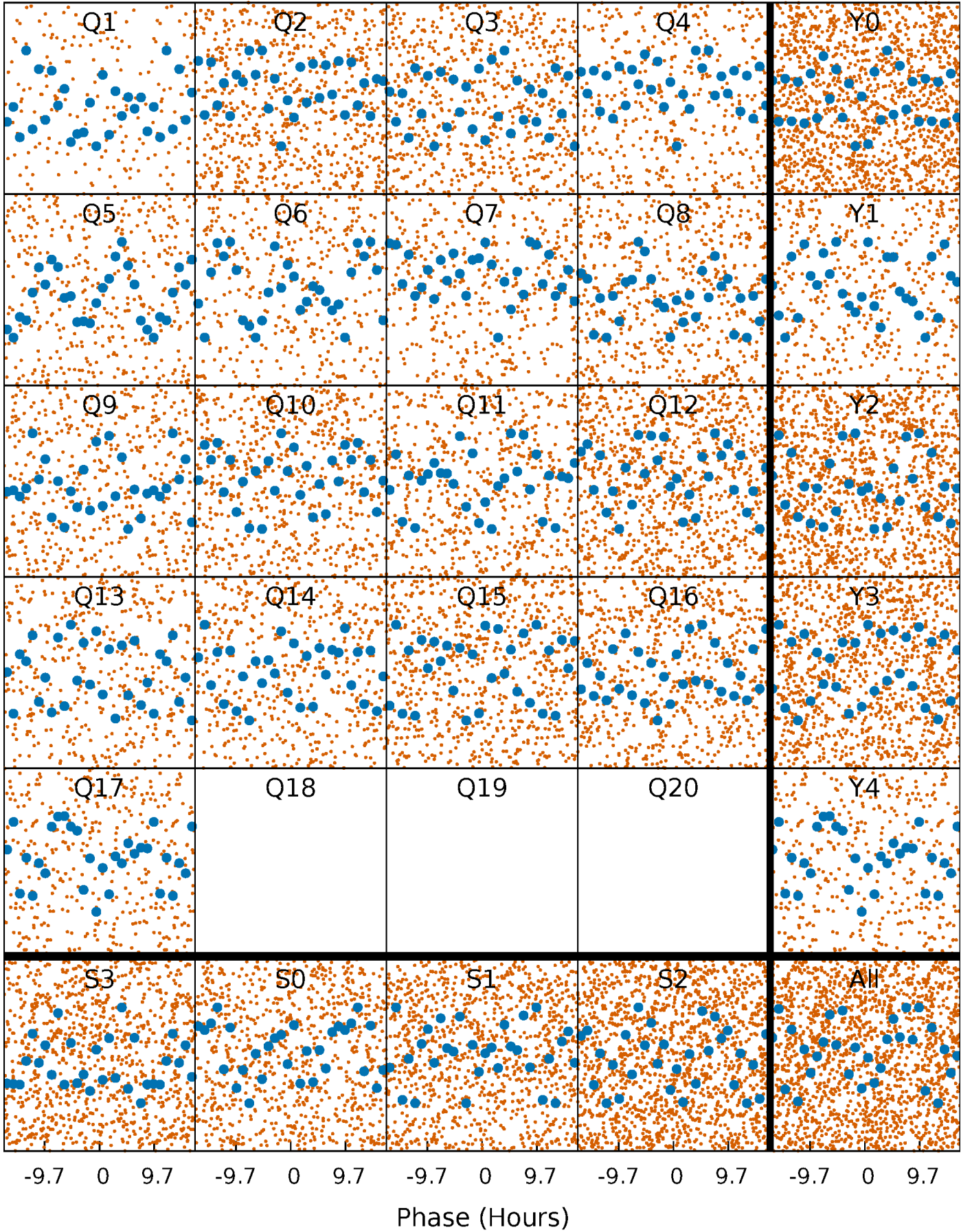


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



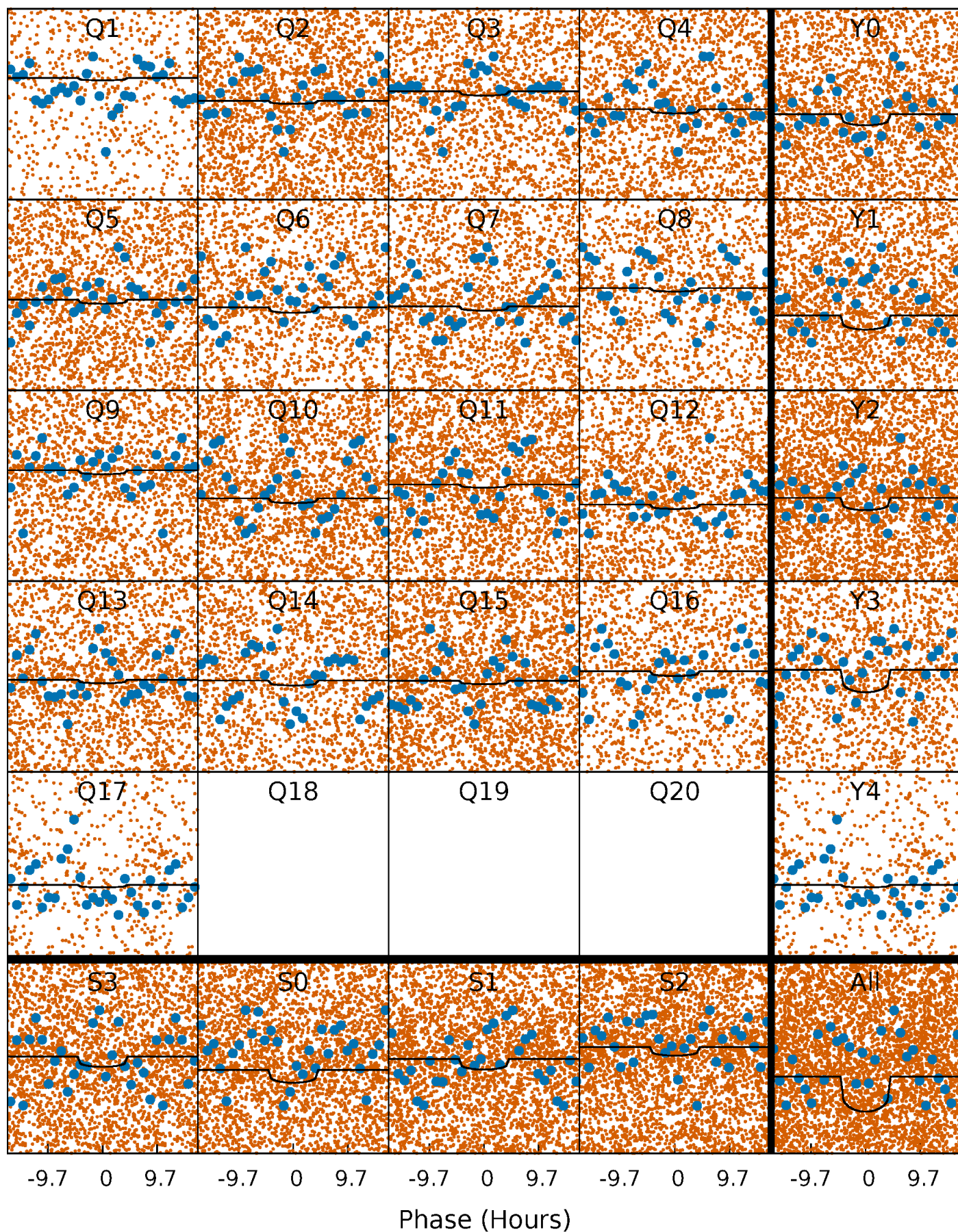
PDC Quarter-Phased Transit Curves

TCE 008264565-01 P= 1.034103 Days $T_0=131.824499$ (BKJD)



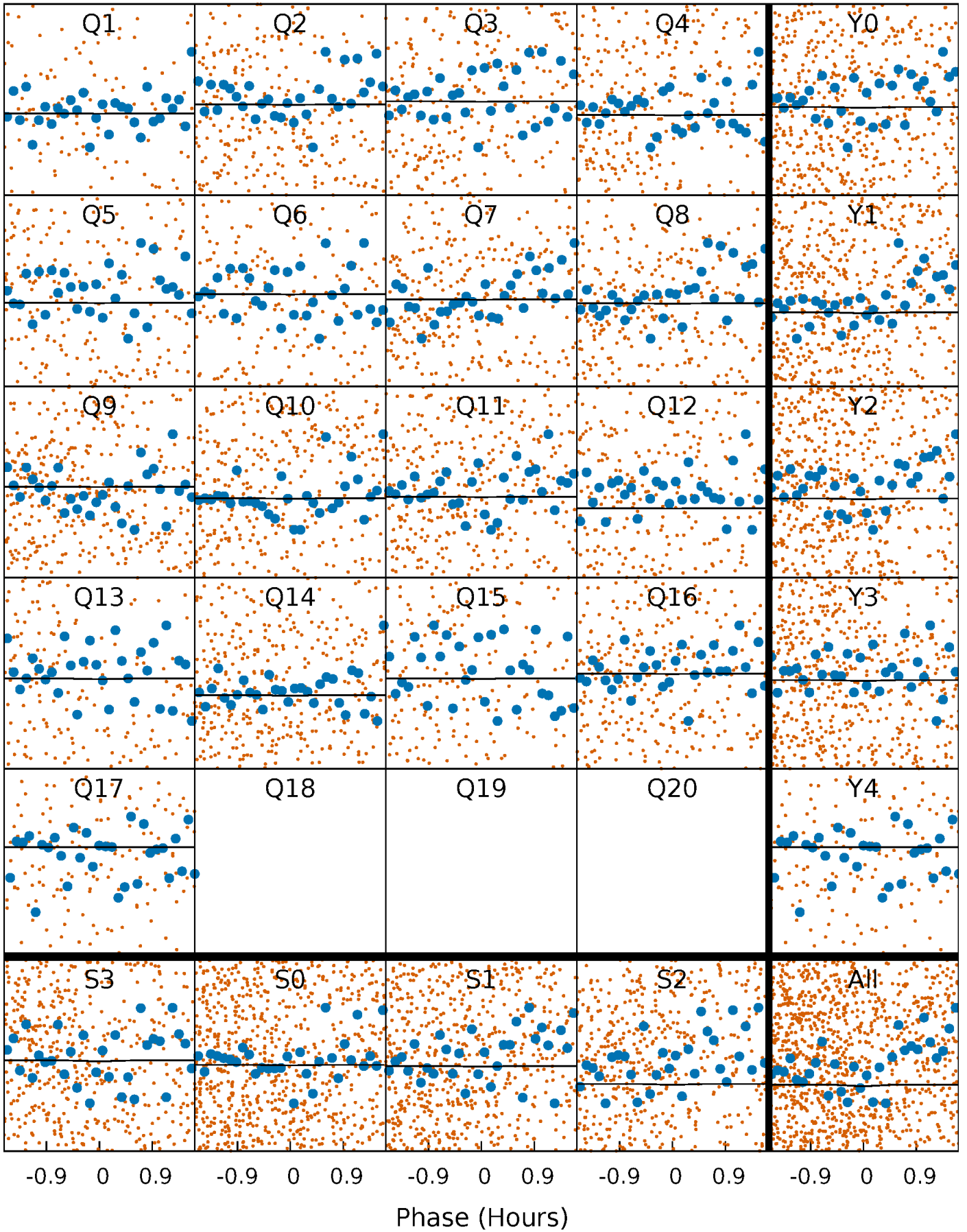
DV Quarter-Phased Transit Curves

TCE 008264565-01 P= 1.034103 Days $T_0=131.824499$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

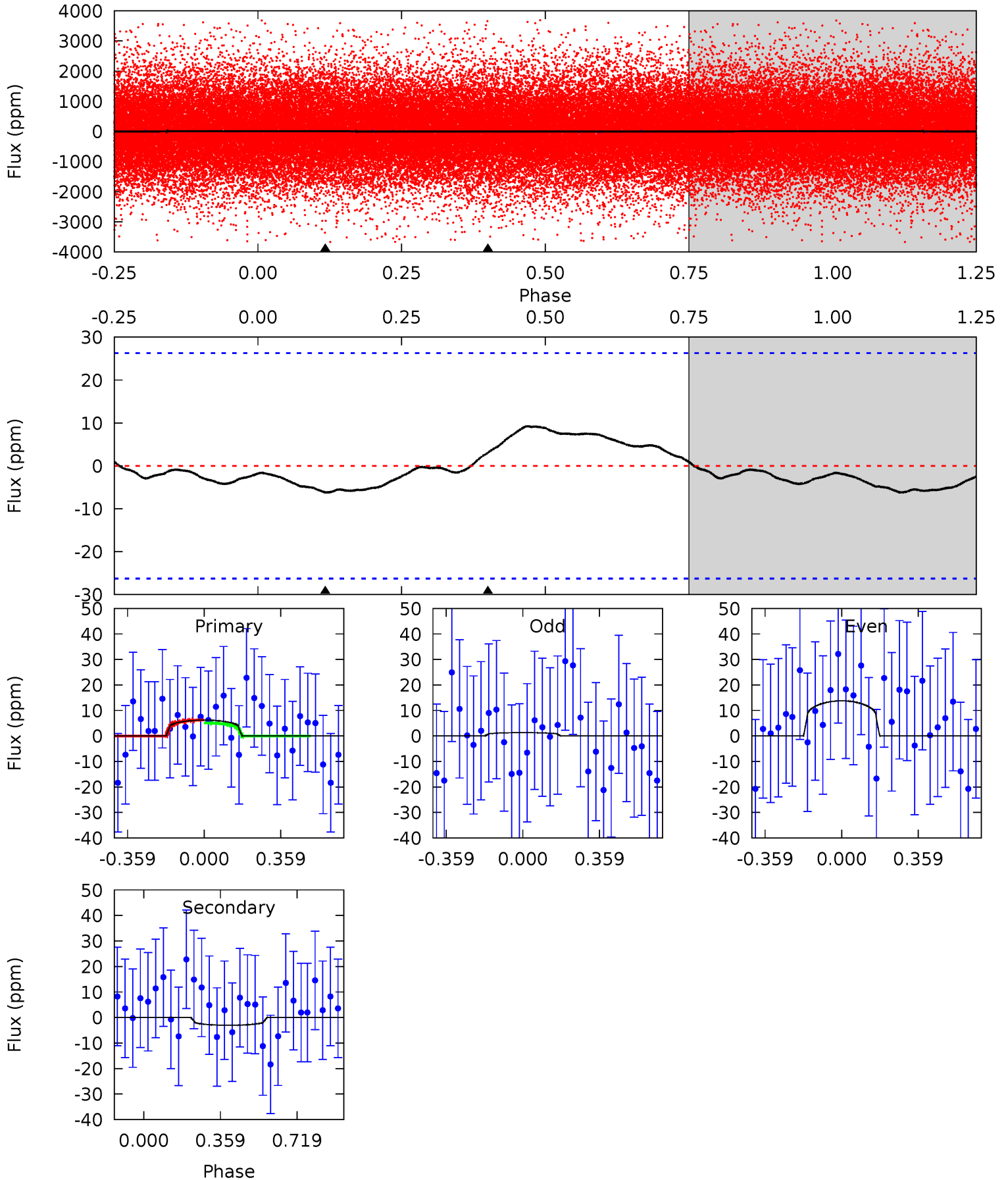
TCE 008264565-01 P= 1.034472 Days $T_0=131.814414$ (BKJD)



DV Model-Shift Uniqueness Test

008264565-01, P = 1.034103 Days, E = 130.790396 Days

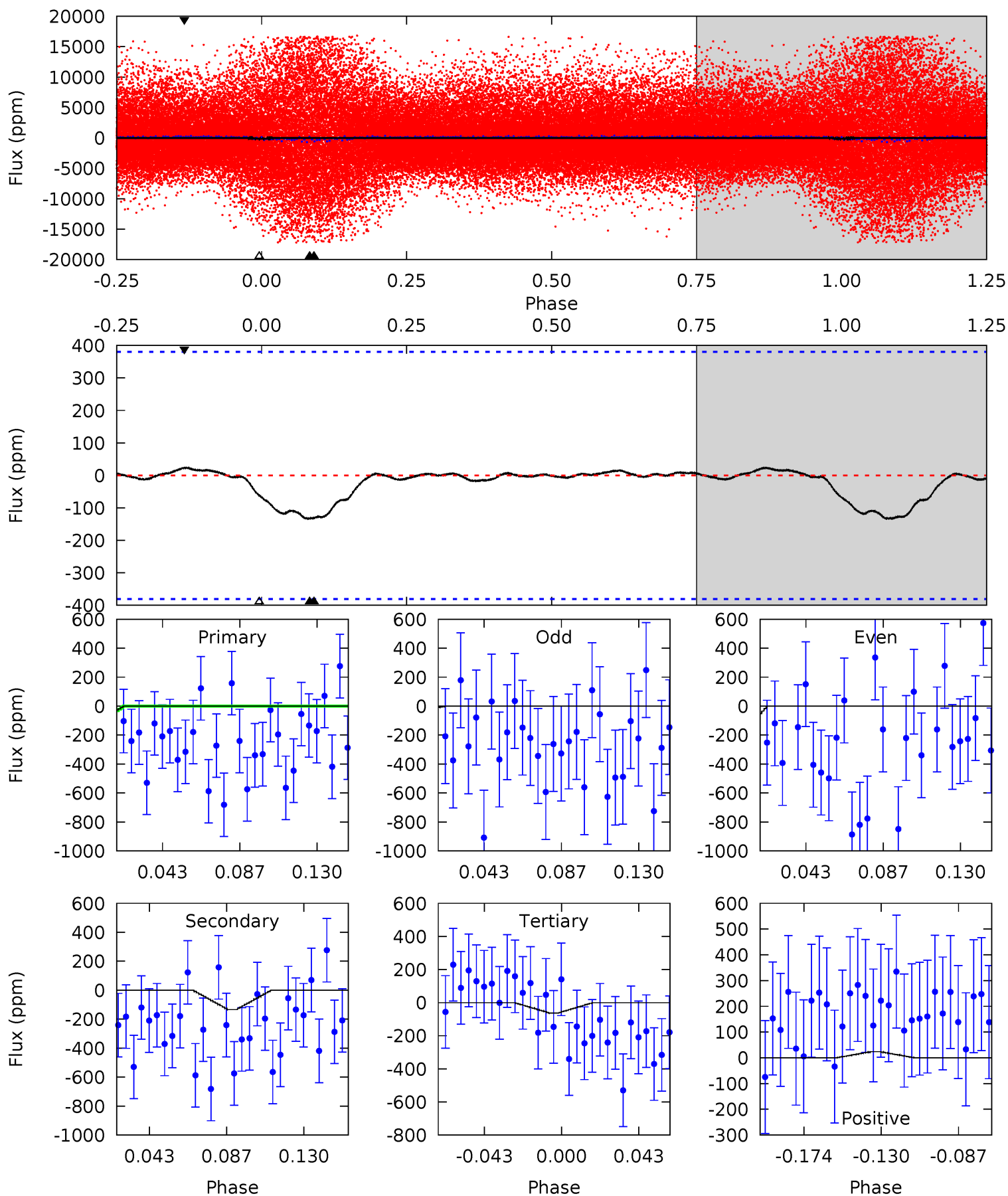
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.01	-0.50	0	0	4.29	0.92	0.32	1.01	1.01	-0.50	-0.50	1.03	-0.00	0.60	0.10



Alt Model-Shift Uniqueness Test

008264565-01, P = 1.034472 Days, E = 130.779942 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.68	1.67	0.78	0.30	4.74	2.02	0.31	0.90	1.38	0.88	1.37	1.37	-0.25	0.15	0.22



Stellar Parameters For KIC 008264565

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7225^{+228}_{-342}	$4.281^{+0.070}_{-0.210}$	$-0.120^{+0.250}_{-0.400}$	$1.414^{+0.490}_{-0.210}$	$1.397^{+0.218}_{-0.196}$	$0.696^{+0.267}_{-0.366}$
	+3%/-5%	+2%/-5%	+208%/-333%	+35%/-15%	+16%/-14%	+38%/-53%
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 008264565-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	3 ± 6	$1.25^{+1.25}_{-0.90}$	3610^{+275}_{-215}	-3866^{+7452}_{-2124}	$-0.300^{+0.984}_{-5.009}$
Alt.	-134 ± 80	$1.22^{+1.23}_{-0.87}$	3588^{+279}_{-222}	8816^{+22385}_{-3405}	22^{+244}_{-18}

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 $A_{obs} \gg 1.0$

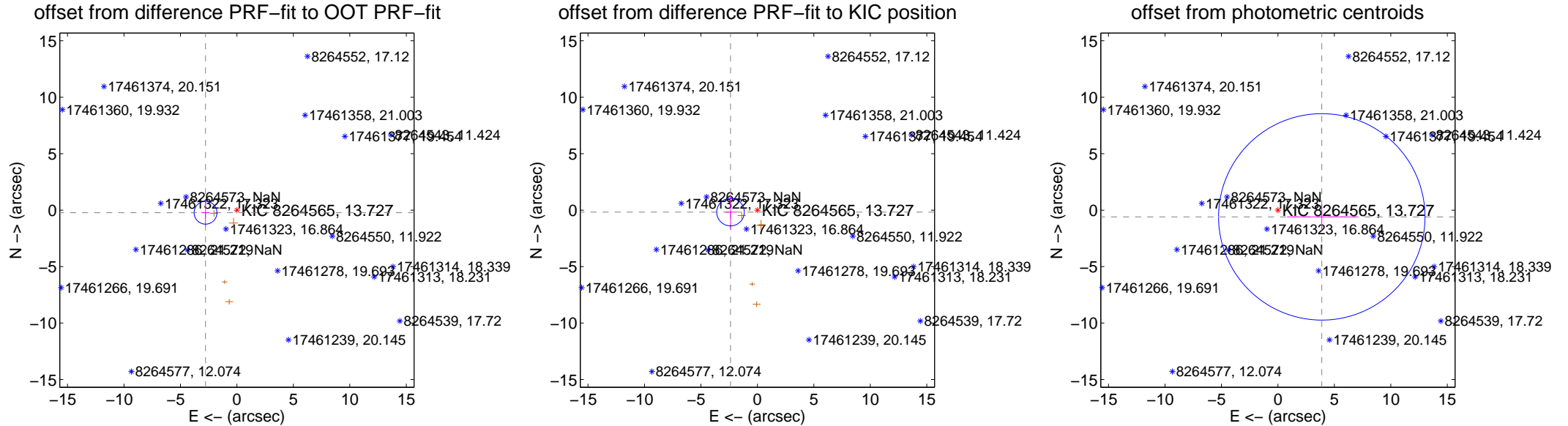
DV Centroid Data

Supplemental centroid analysis for 008264565-01. Kepler magnitude: 13.73. Transit SNR 1.49

There are 0 quarters with good PRF difference image offsets

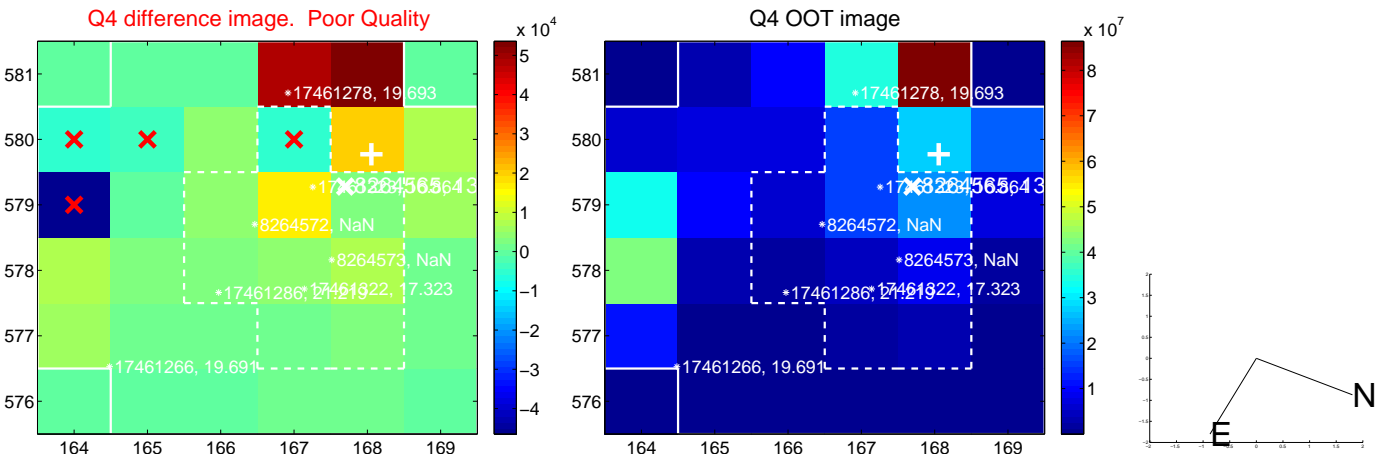
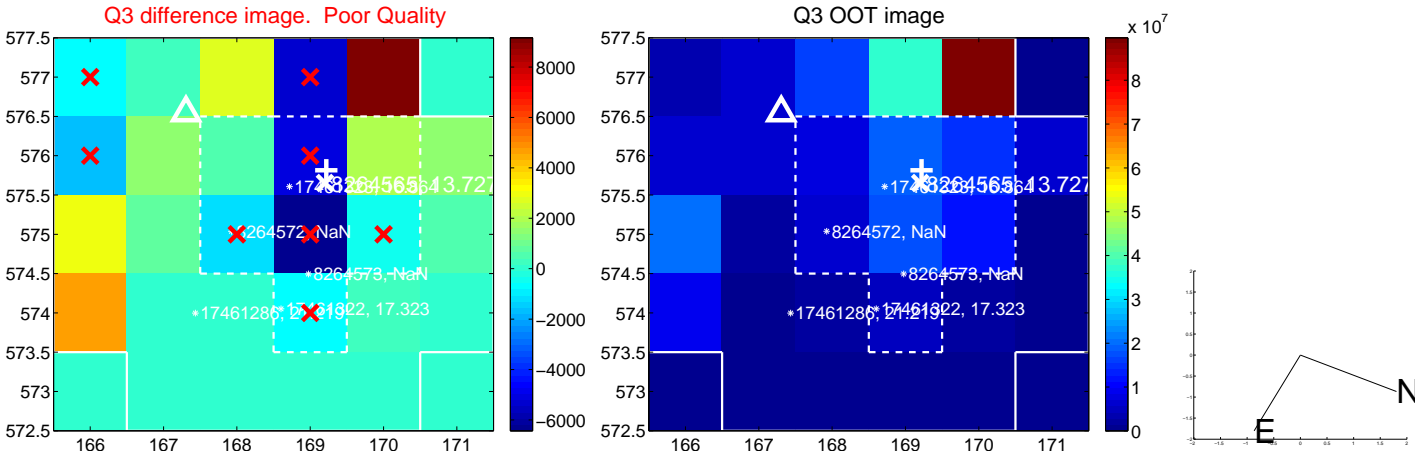
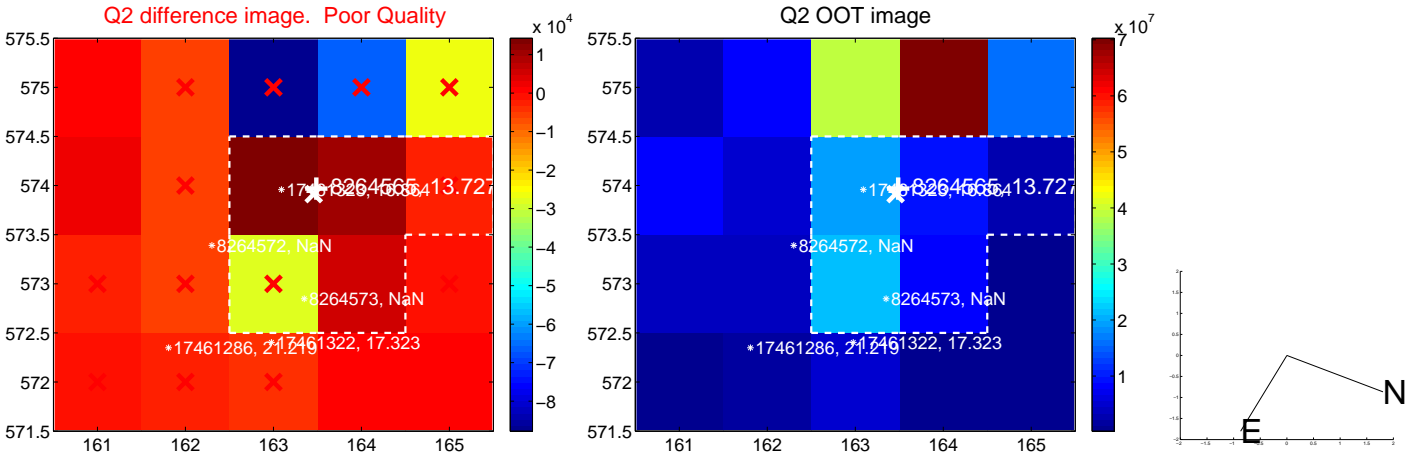
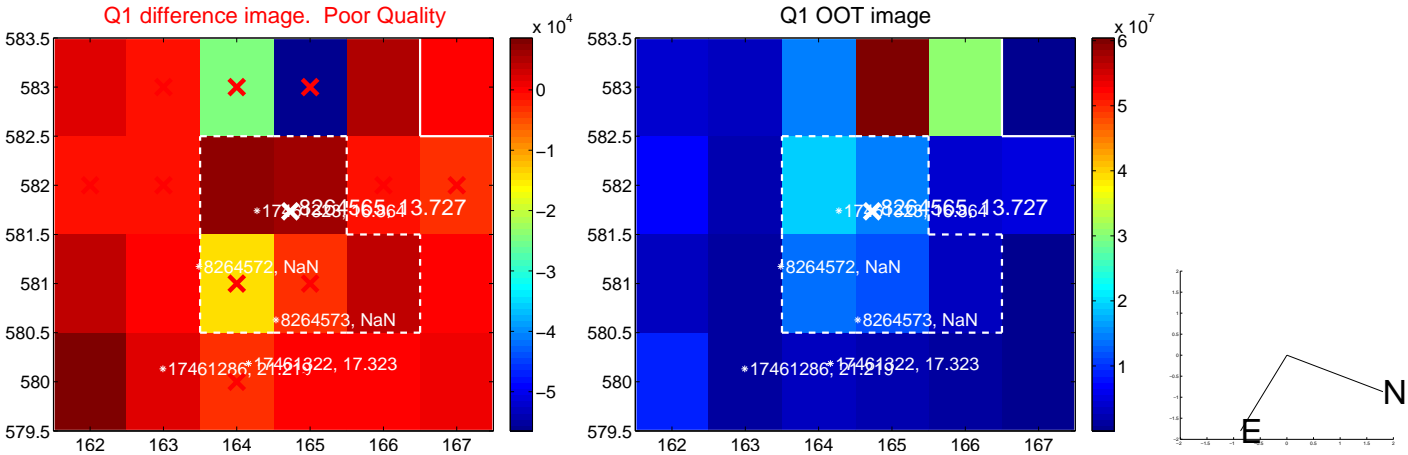
The direct PRF centroid is offset from the target star catalog position by about 0.65 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.788 ± 0.337	8.28	2.779 ± 0.375	-0.229 ± 1.171
PRF-fit source offset from KIC position	2.385 ± 0.407	5.87	2.379 ± 0.474	-0.174 ± 1.539
photometric centroid source offset	3.93 ± 3.05	1.29	-3.89 ± 3.08	-0.60 ± 1.10

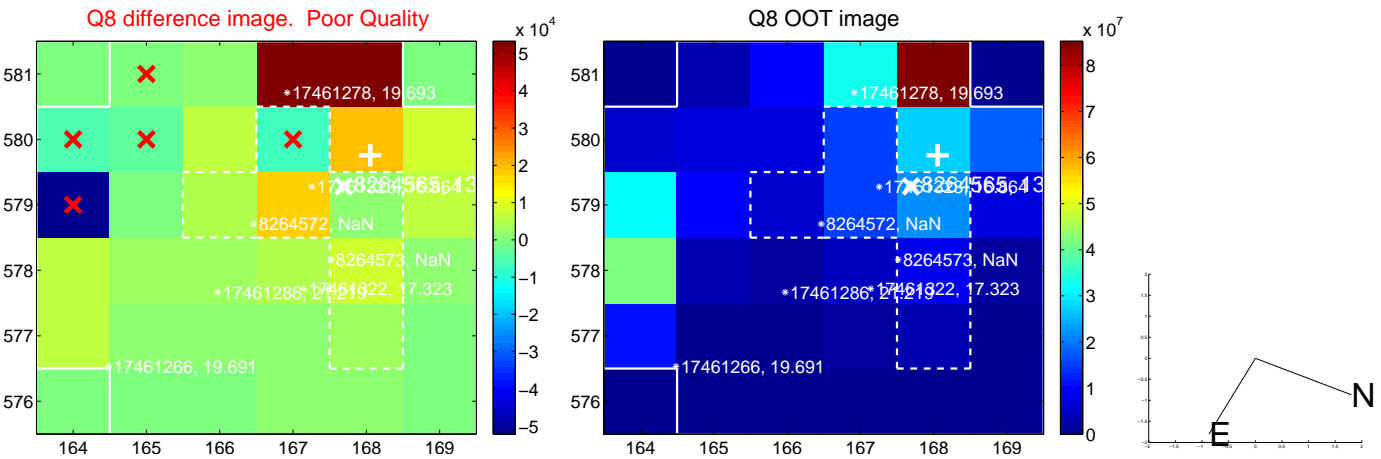
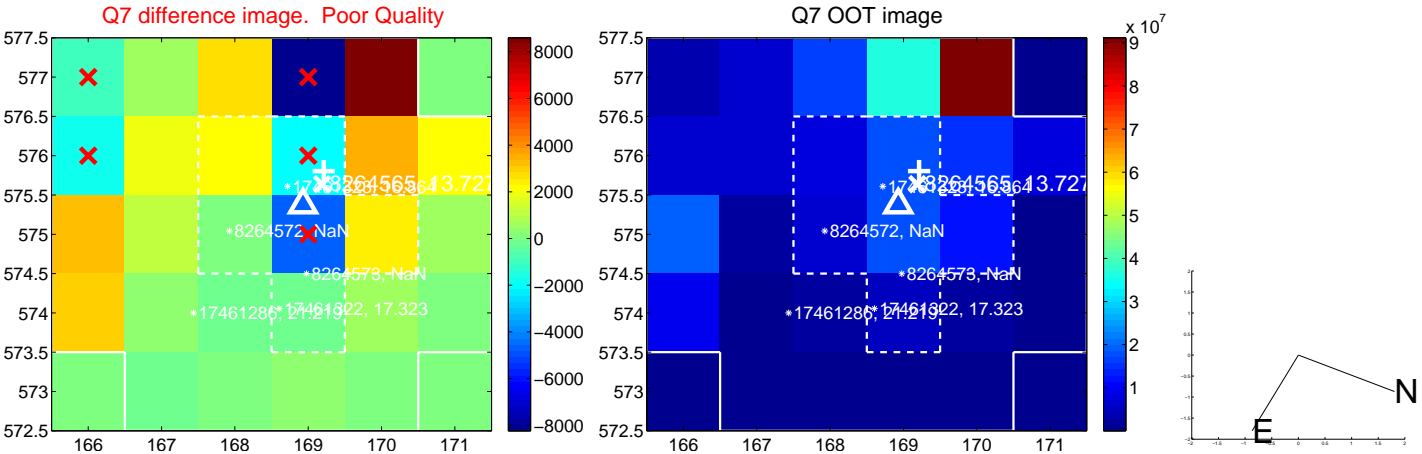
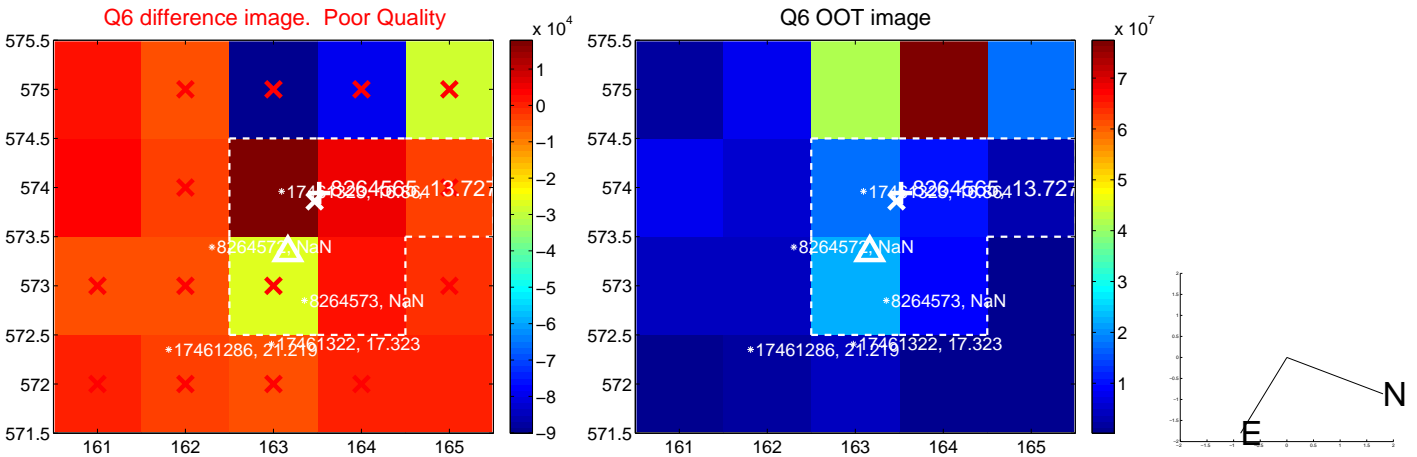
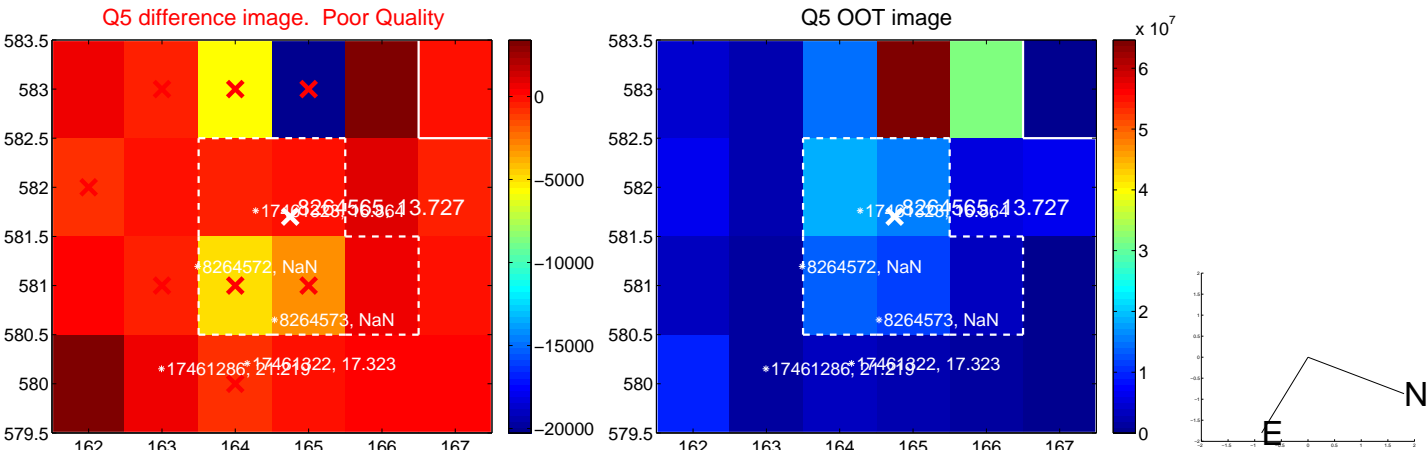


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

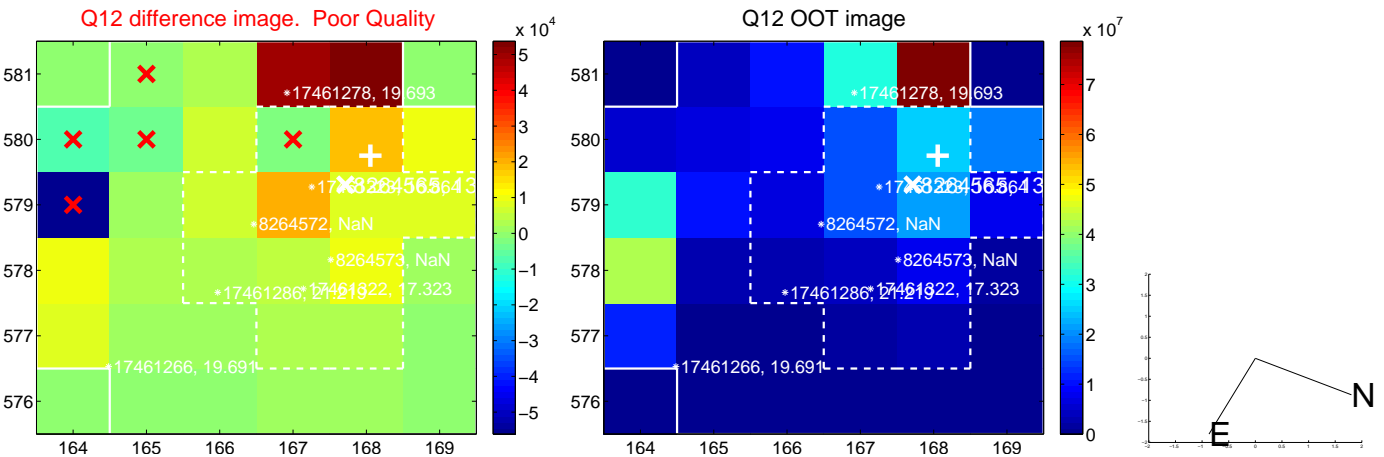
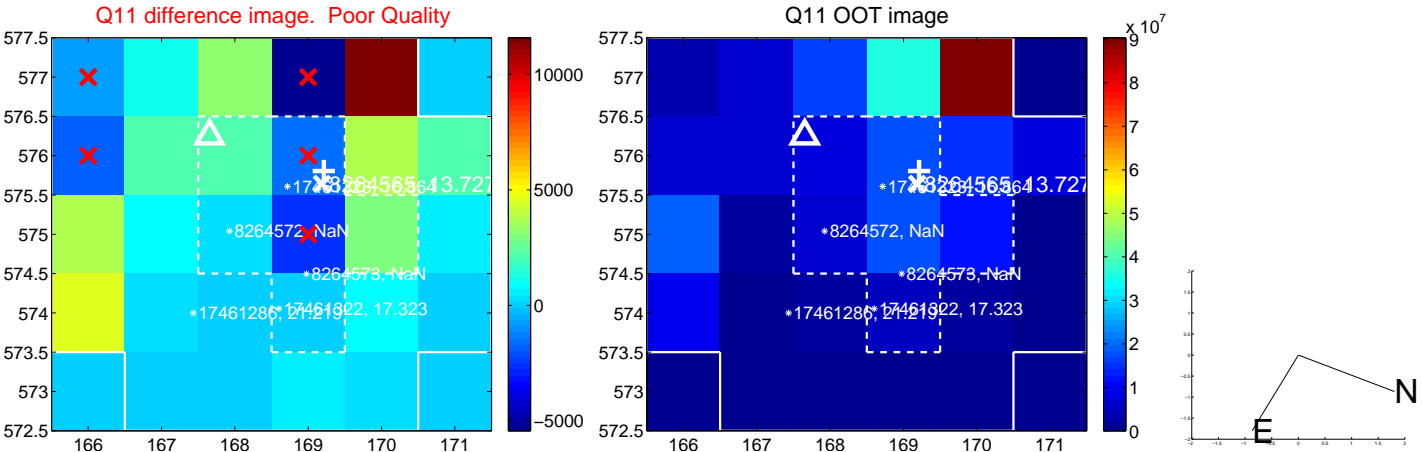
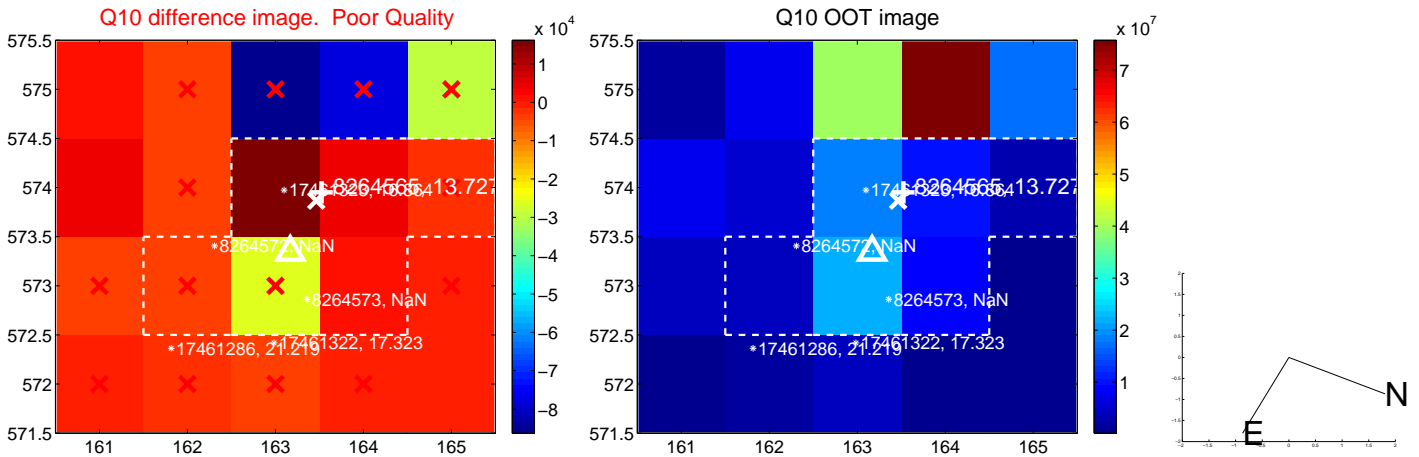
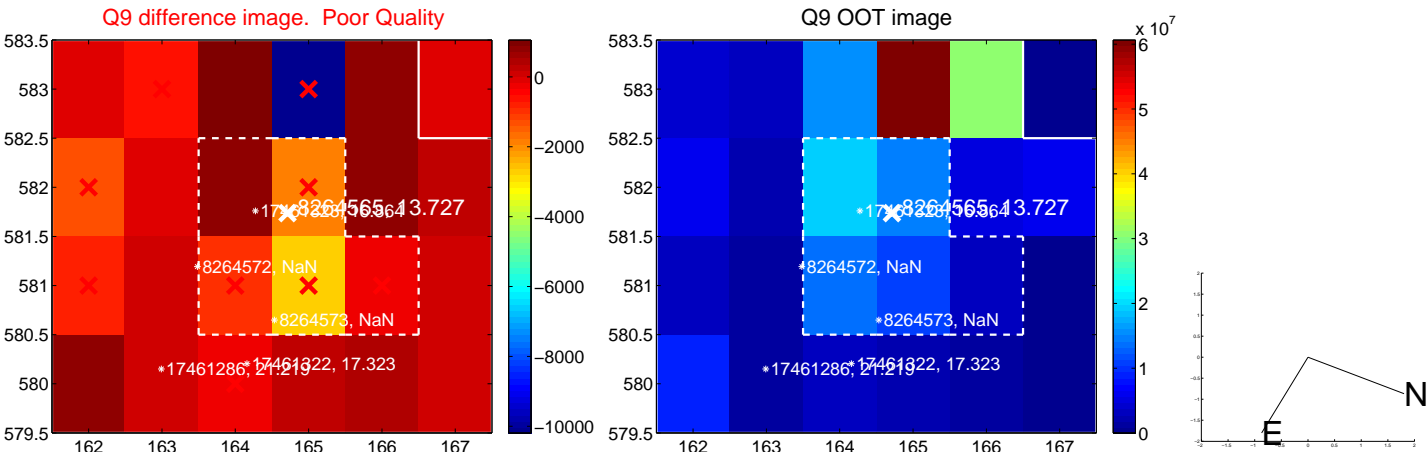
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



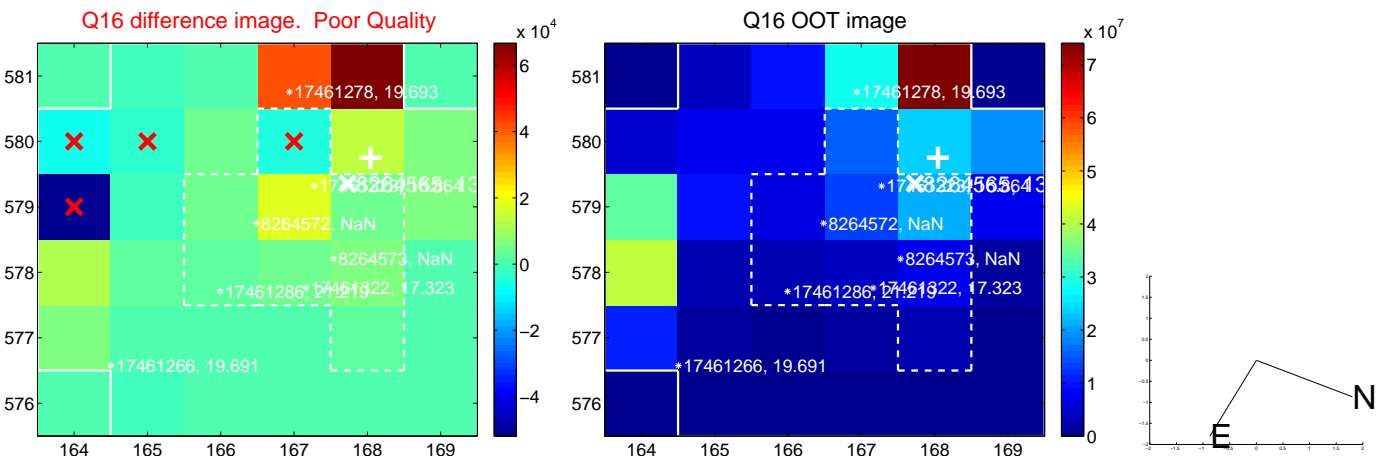
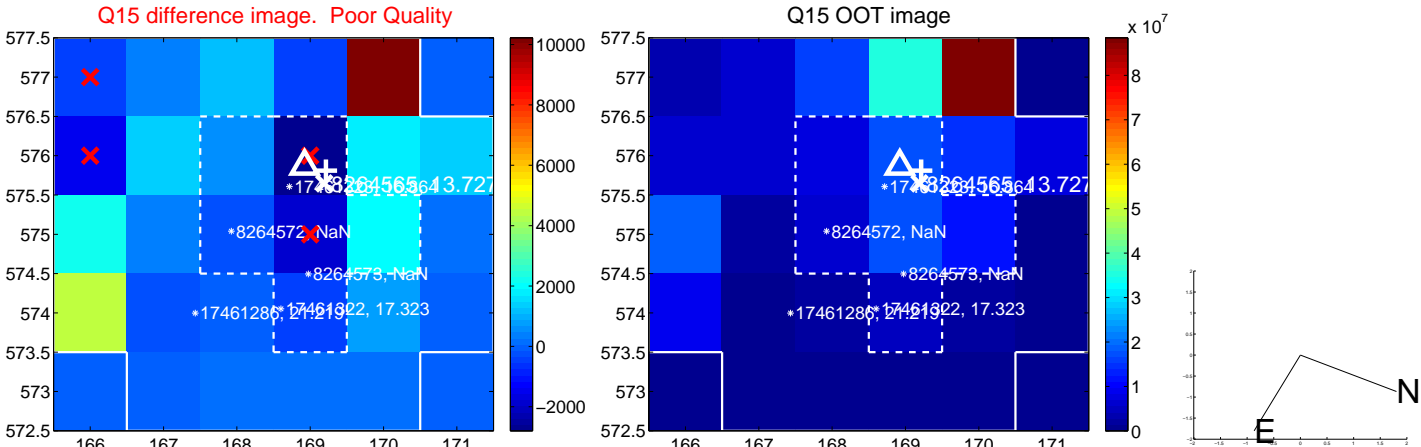
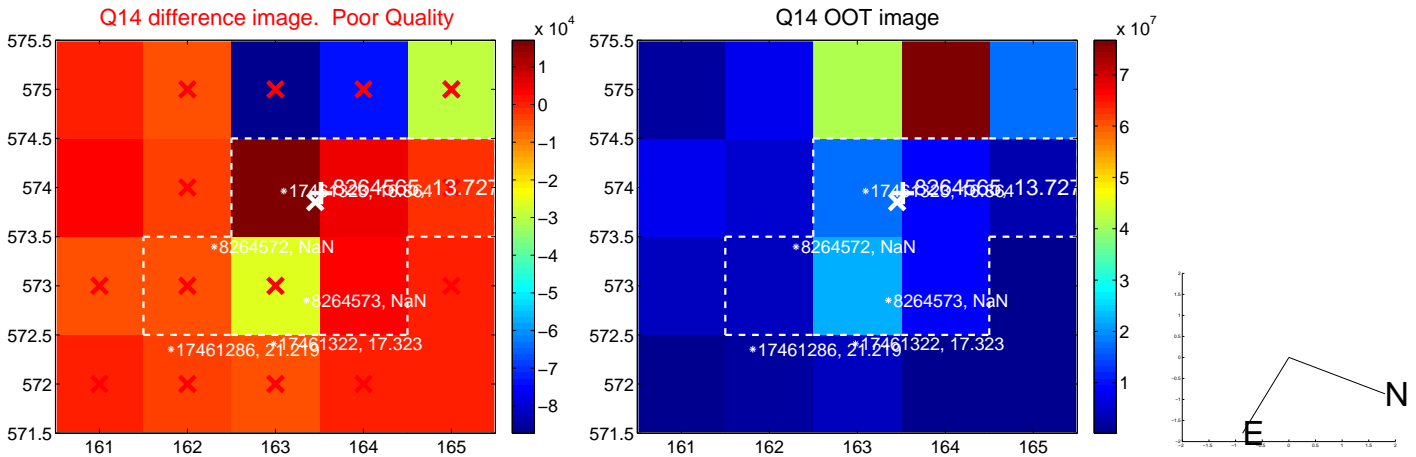
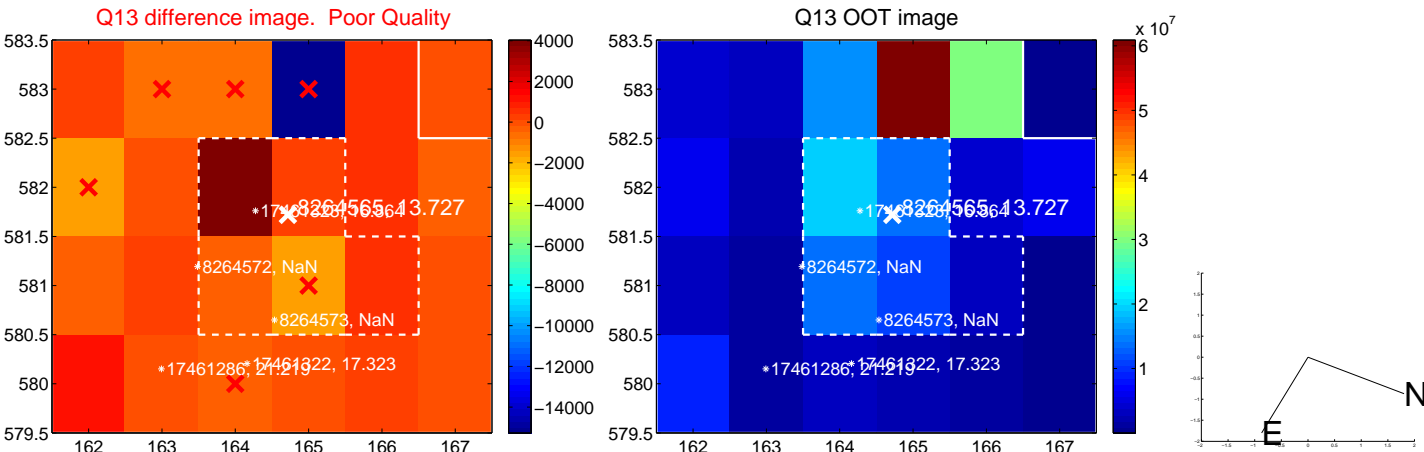
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