

KIC 008026095

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})
008026095-01	OBS	No	0.937161	132.435864	10.3	2.933	7.8	6.8	1.70	6434	0.64	11451.29

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008026095-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_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.

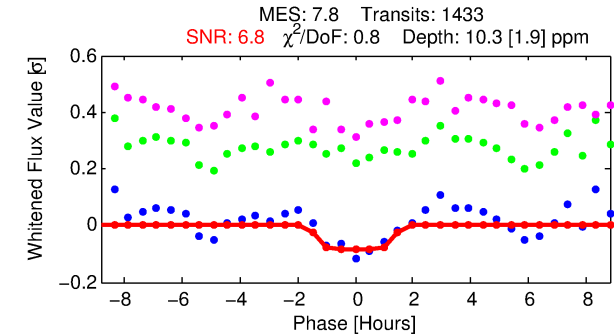
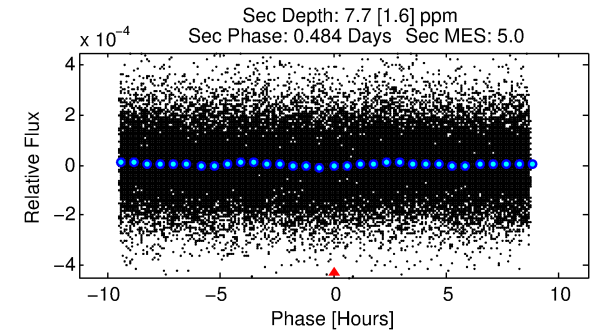
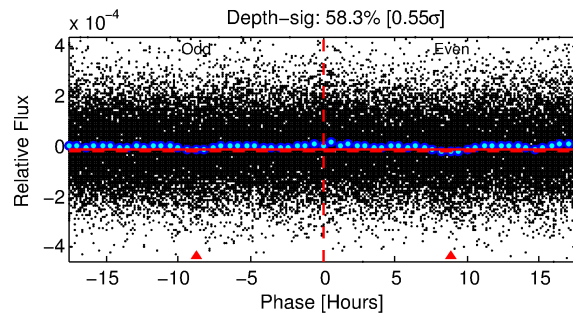
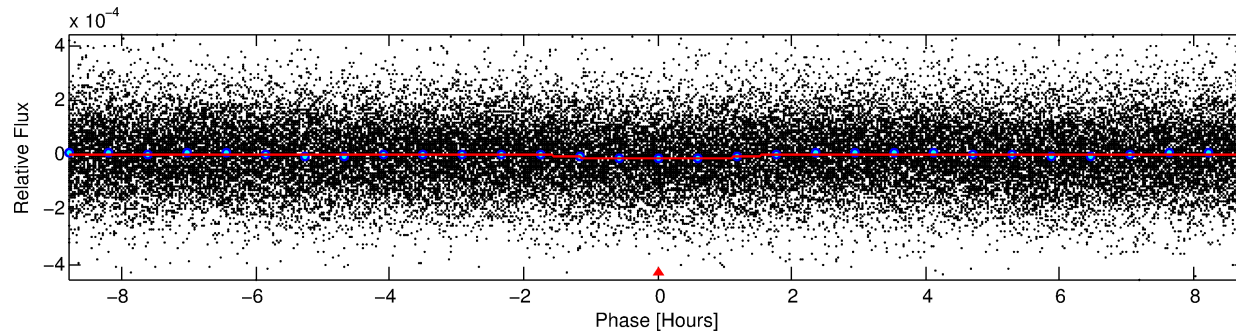
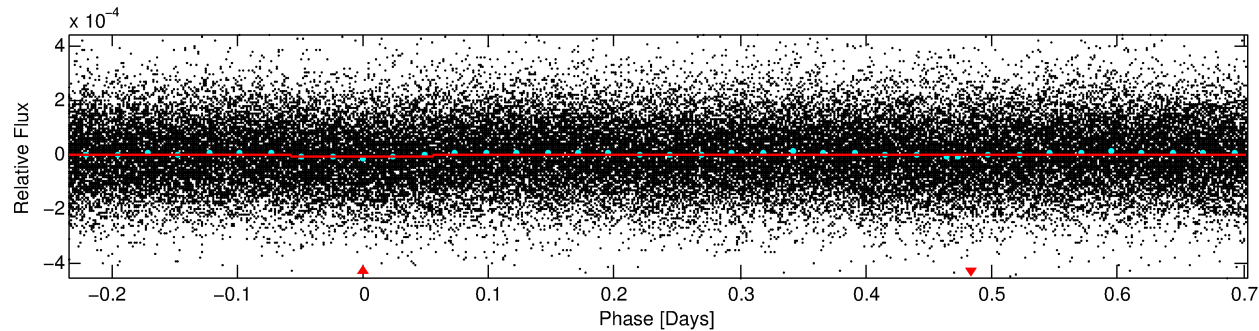
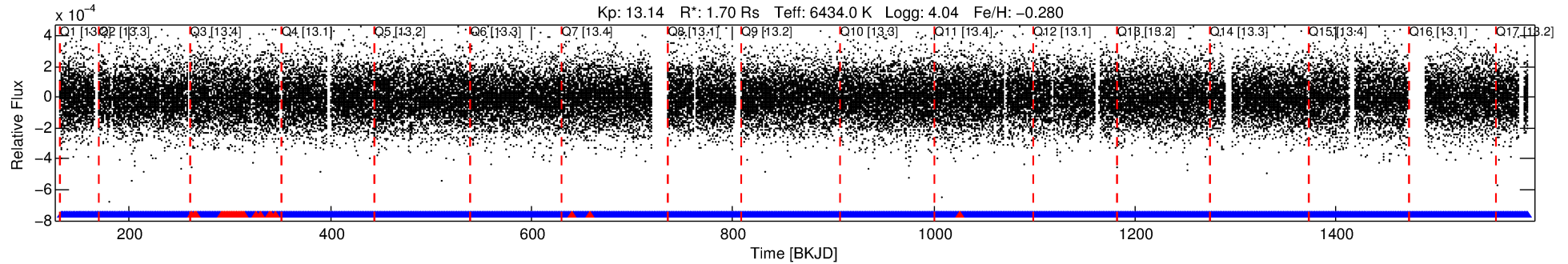
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008026095-01

No Significant Match Found

DV One-Page Summary

KIC: 8026095 Candidate: 1 of 1 Period: 0.937 d



DV Fit Results:

Period = 0.93716 [0.00002] d
Epoch = 132.4359 [0.0055] BKJD
Rp/R* = 0.0034 [0.0015]
a/R* = 1.43 [1.89]
b = 0.90 [0.55]
Seff = 11451.29 [5086.11]
Teq = 2638 [293] K
Rp = 0.64 [0.33] Re
a = 0.0196 [0.0052] AU
Ag = 4.03 [4.10] [0.74 σ]
Teffp = 5777 [1345] K [2.28 σ]

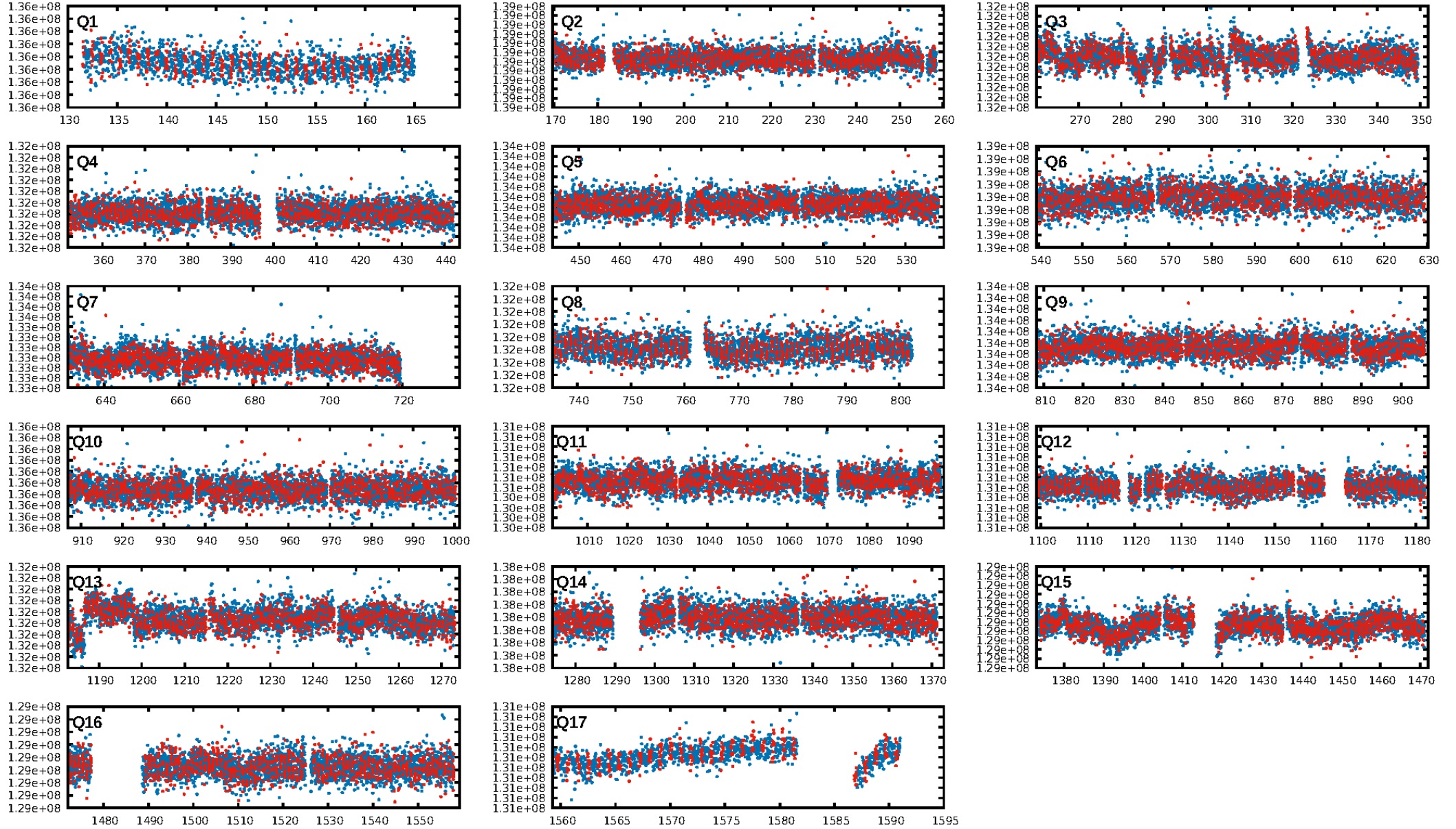
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.73e-15
RollingBand-fgt: 0.98 [1338/1368]
GhostDiagnostic-chr: -1.635
Centroid-sig: 7.6%
Centroid-so: 3.728 arcsec [1.73 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

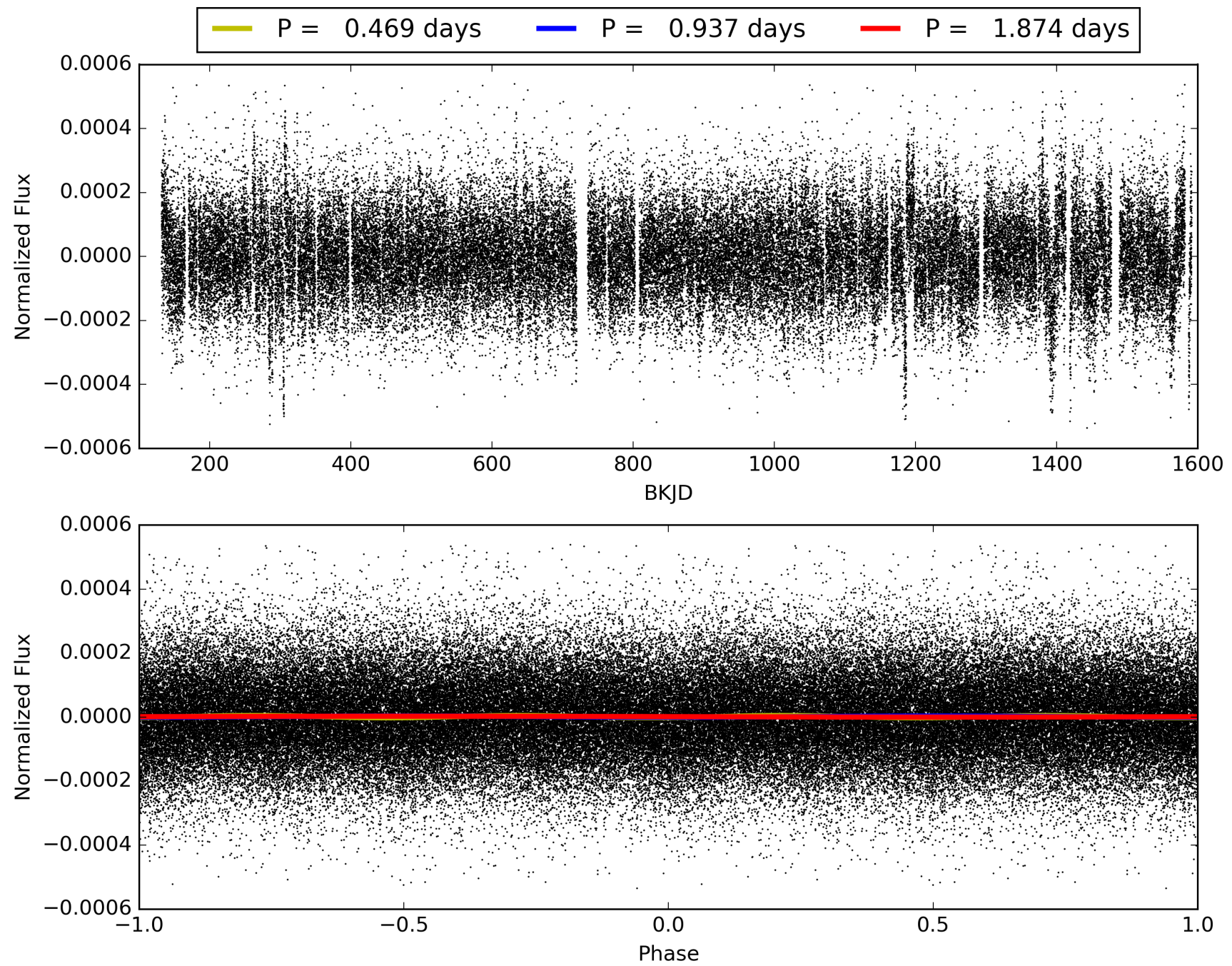
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:16:47 Z

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

TCE 008026095-01, PDC Light Curves

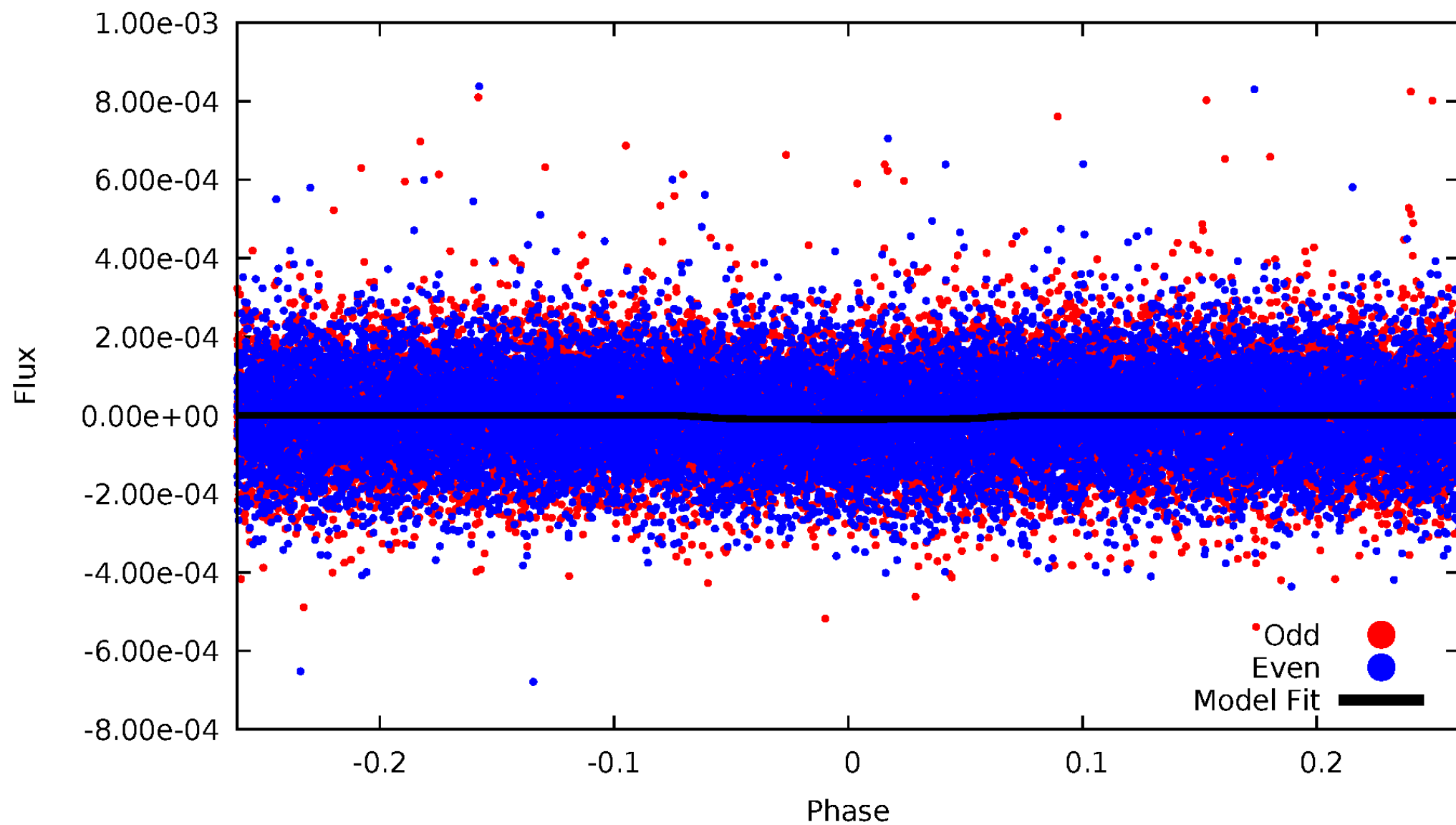


TCE 008026095-01



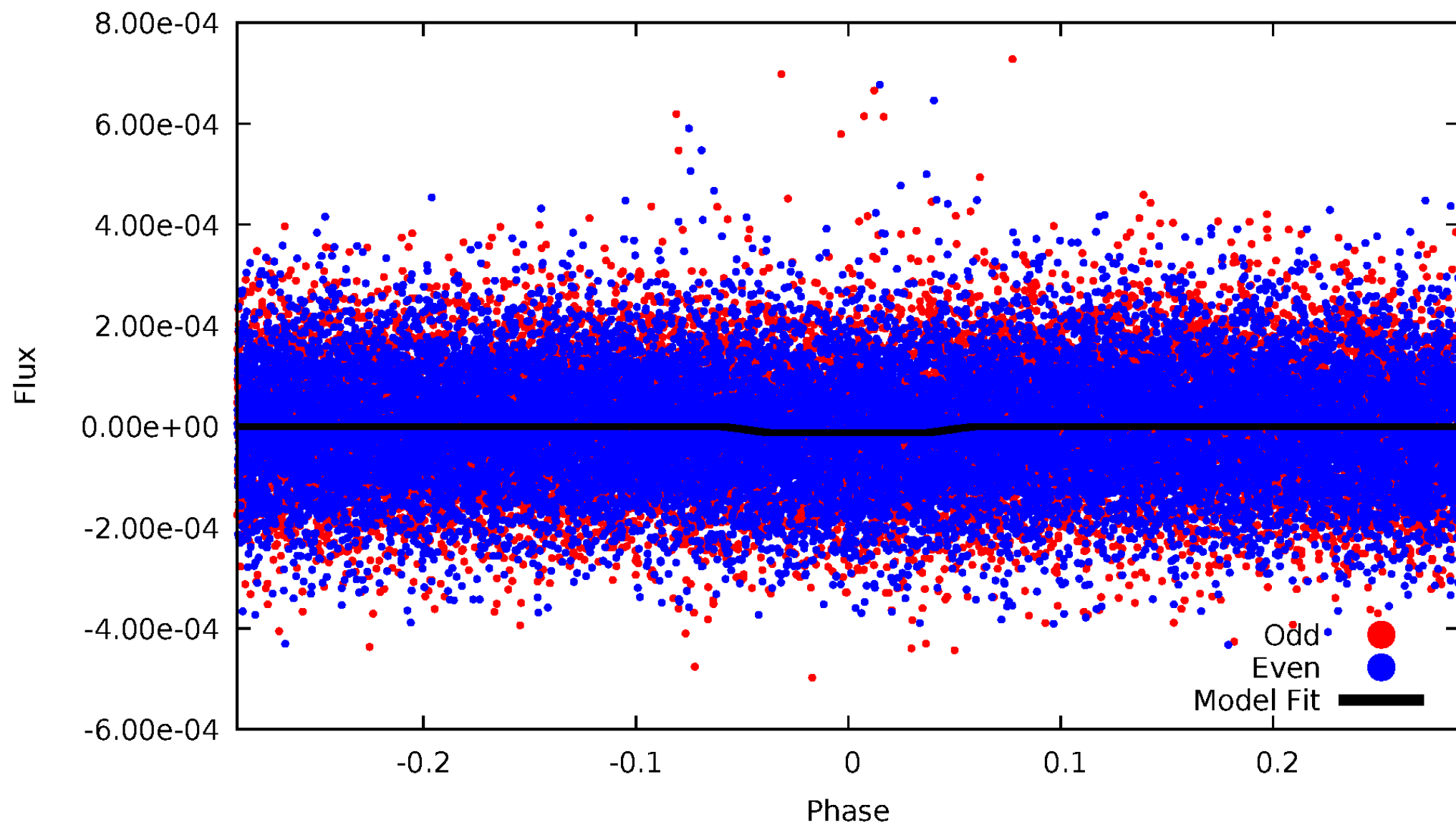
DV Odd/Even

TCE 008026095-01



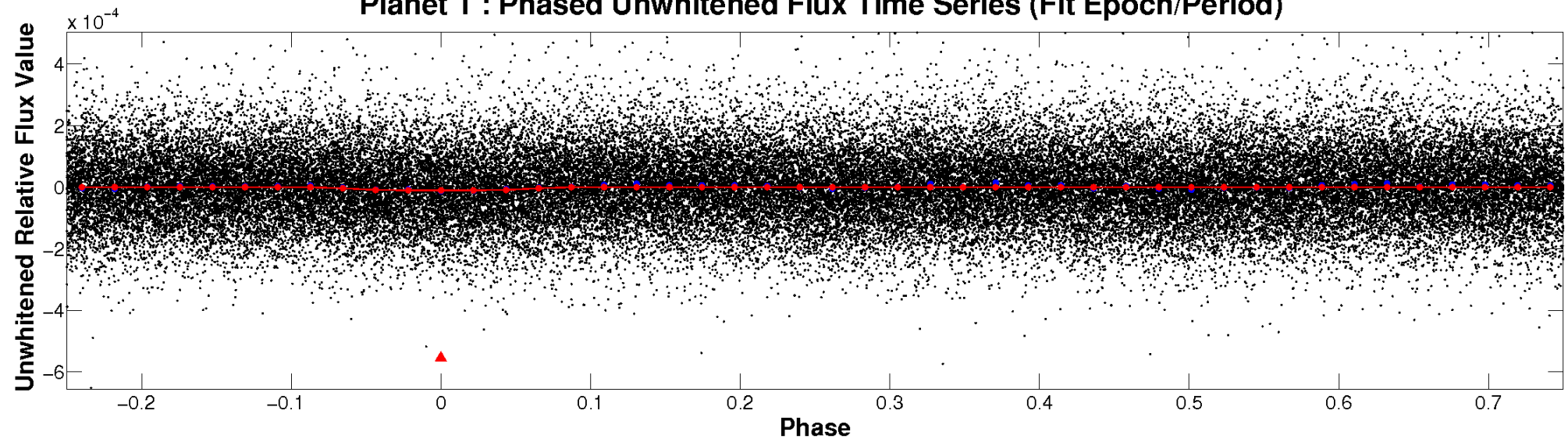
ALT Odd/Even

TCE 008026095-01

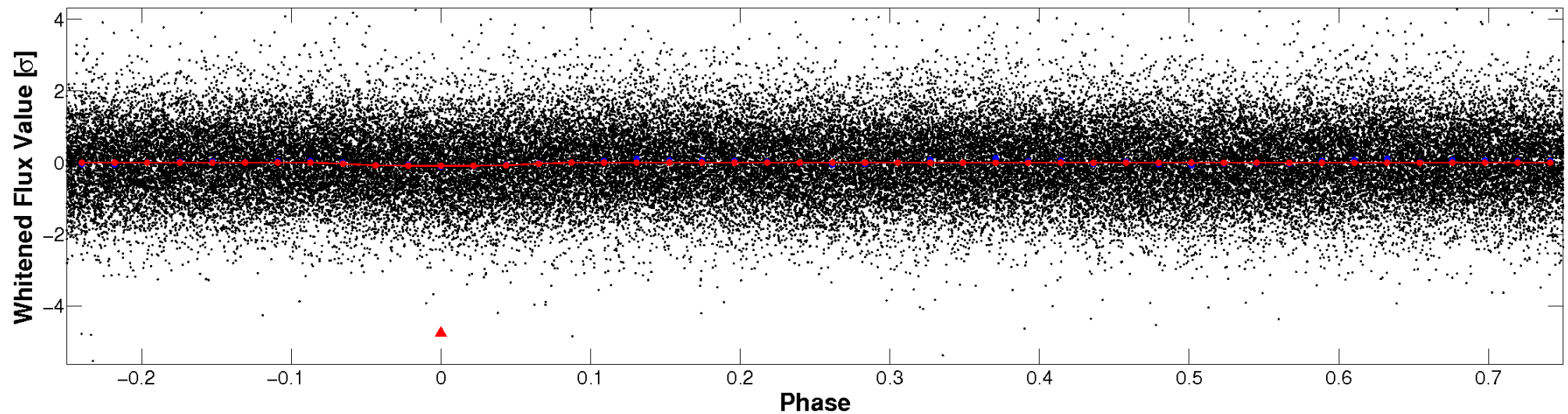


Non-Whitened Vs. Whitened Light Curve

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

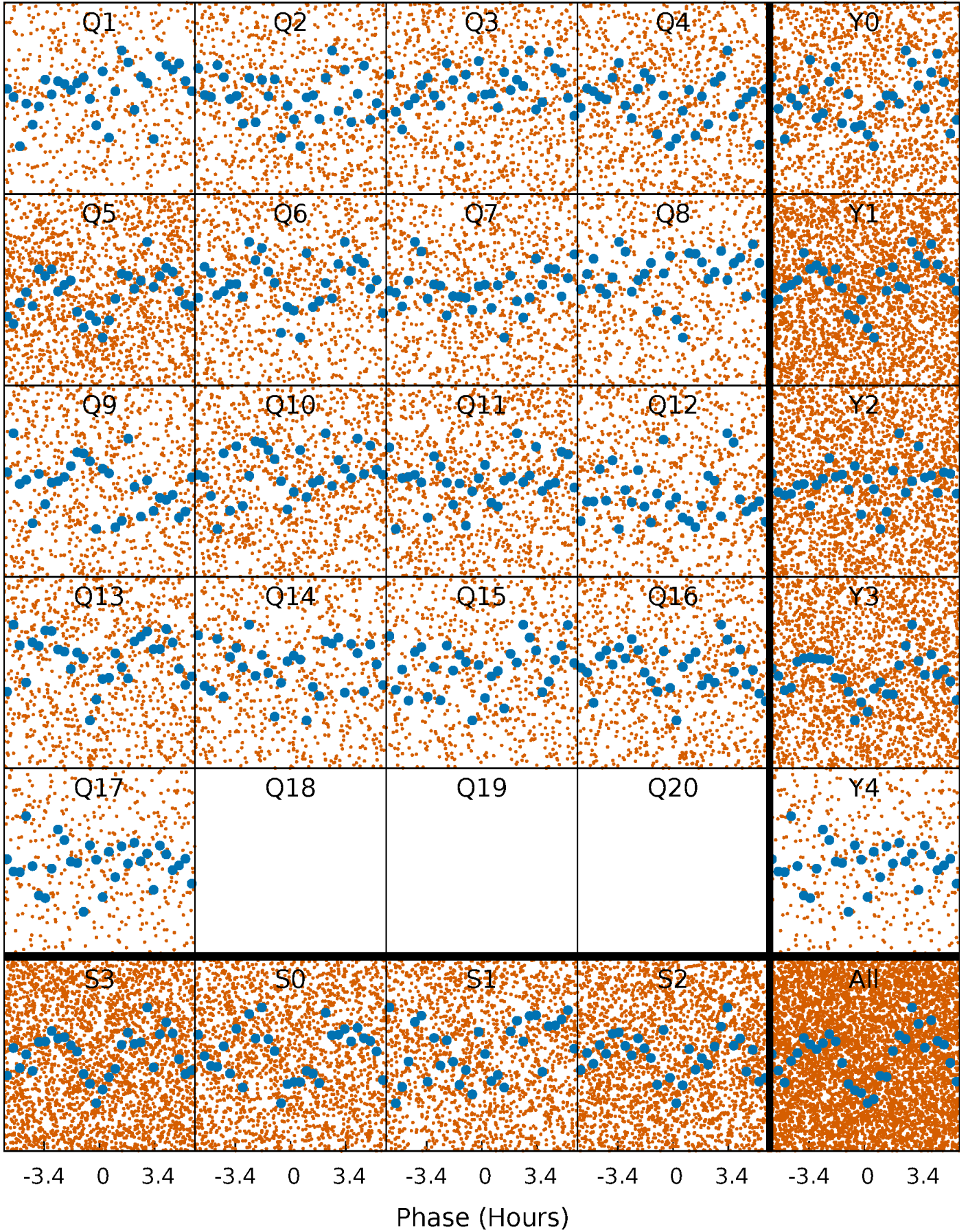


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



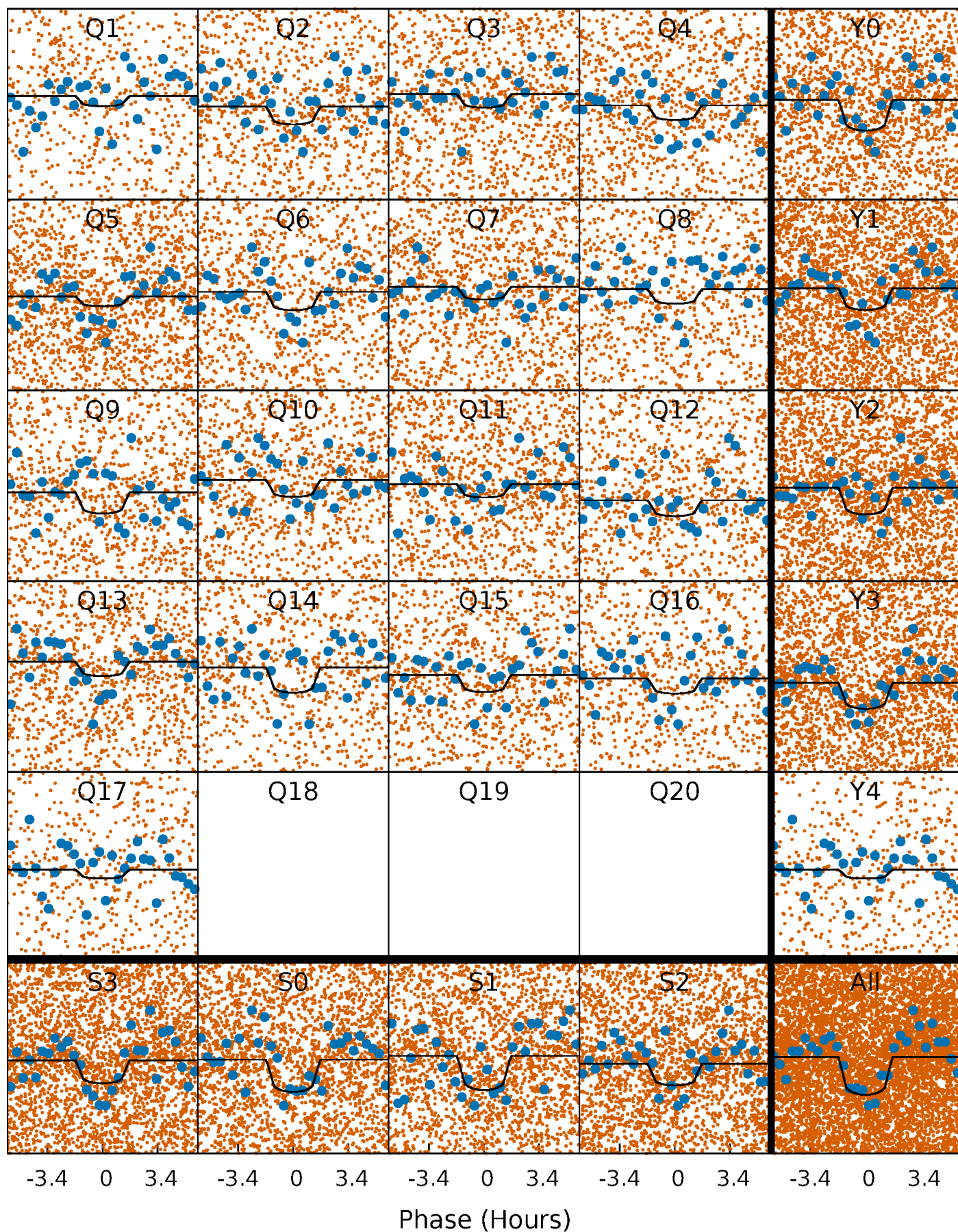
PDC Quarter-Phased Transit Curves

TCE 008026095-01 P= 0.937161 Days $T_0=132.435864$ (BKJD)



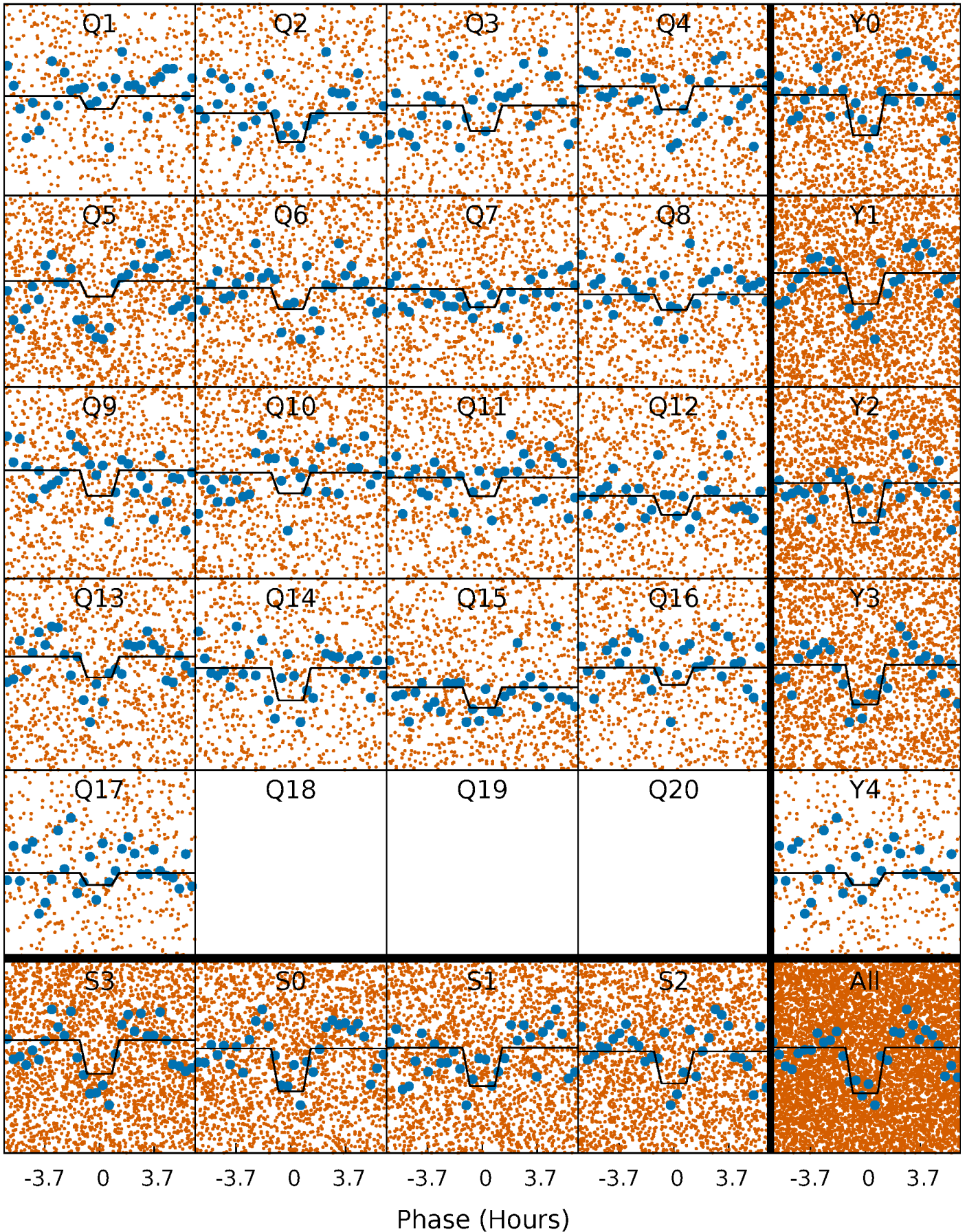
DV Quarter-Phased Transit Curves

TCE 008026095-01 P= 0.937161 Days $T_0=132.435864$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

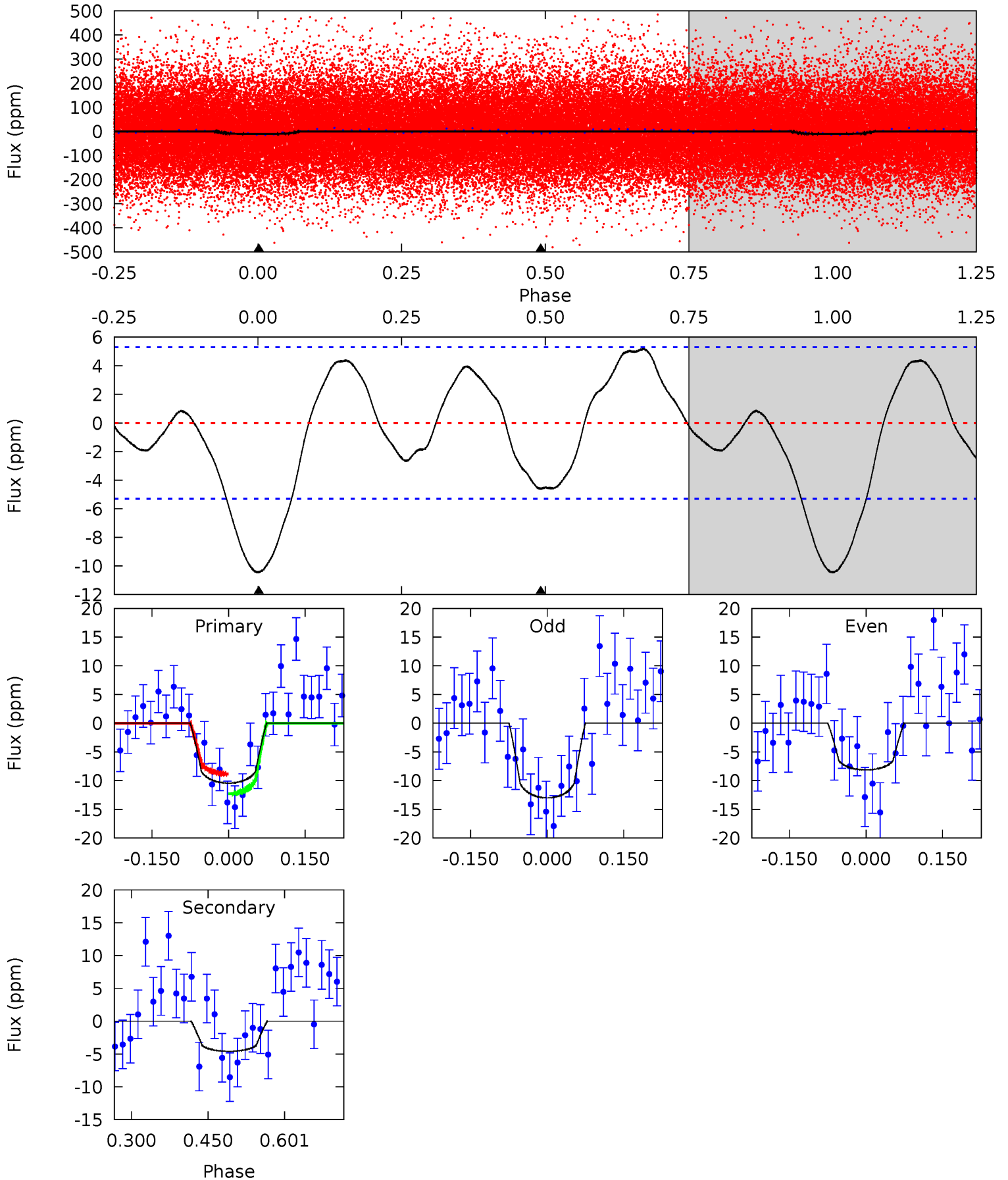
TCE 008026095-01 P= 0.937171 Days $T_0=132.433683$ (BKJD)



DV Model-Shift Uniqueness Test

008026095-01, P = 0.937161 Days, E = 131.498703 Days

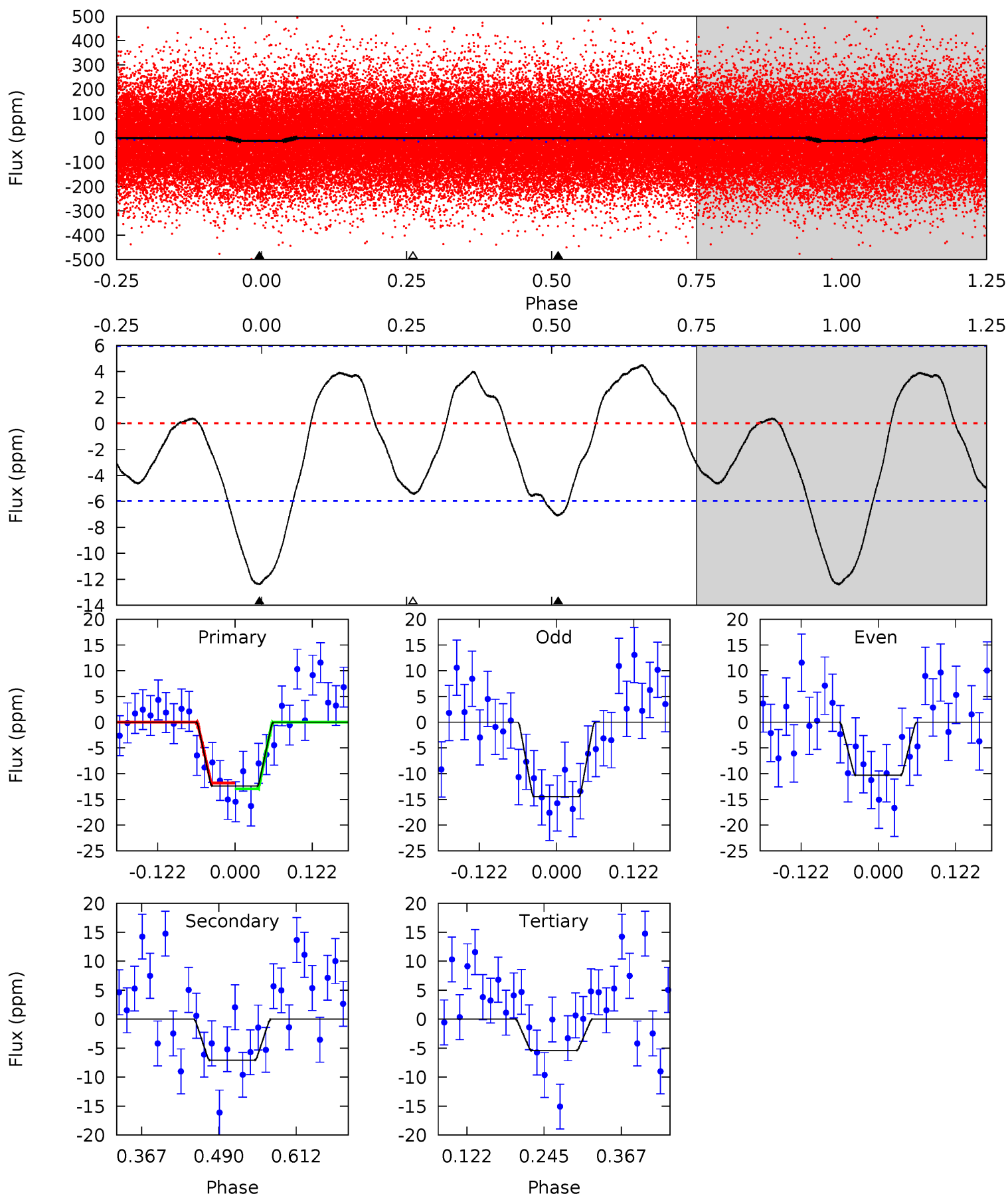
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.82	3.88	0	0	4.48	1.44	2.08	8.82	8.82	3.88	3.88	2.06	1.05	0.33	1.47



Alt Model-Shift Uniqueness Test

008026095-01, P = 0.937171 Days, E = 131.496512 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.39	5.37	4.10	0	4.52	1.54	2.43	5.28	9.39	1.27	5.37	1.57	1.11	0.27	0.44



Stellar Parameters For KIC 008026095

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6434^{+162}_{-194}	$4.040^{+0.252}_{-0.126}$	$-0.280^{+0.250}_{-0.300}$	$1.697^{+0.378}_{-0.463}$	$1.151^{+0.192}_{-0.157}$	$0.332^{+0.461}_{-0.124}$
	+3%/-3%	+6%/-3%	+89%/-107%	+22%/-27%	+17%/-14%	+139%/-37%
Source	PHO1	FLK73	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 008026095-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-5 ± 1	$0.61^{+0.31}_{-0.29}$	3632^{+232}_{-267}	4934^{+1758}_{-823}	$2.452^{+6.265}_{-1.352}$
Alt.	-7 ± 1	$0.67^{+0.30}_{-0.28}$	3638^{+238}_{-284}	5349^{+1659}_{-862}	$3.394^{+7.325}_{-1.800}$

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

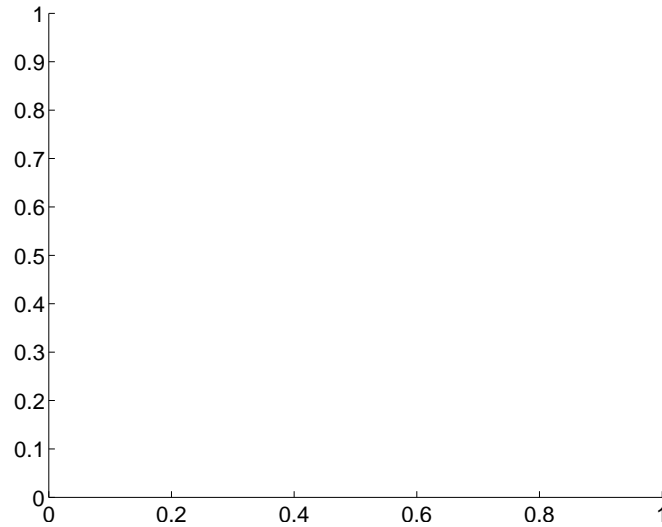
Supplemental centroid analysis for 008026095-01. Kepler magnitude: 13.13. Transit SNR 6.82

There are 0 quarters with good PRF difference image offsets

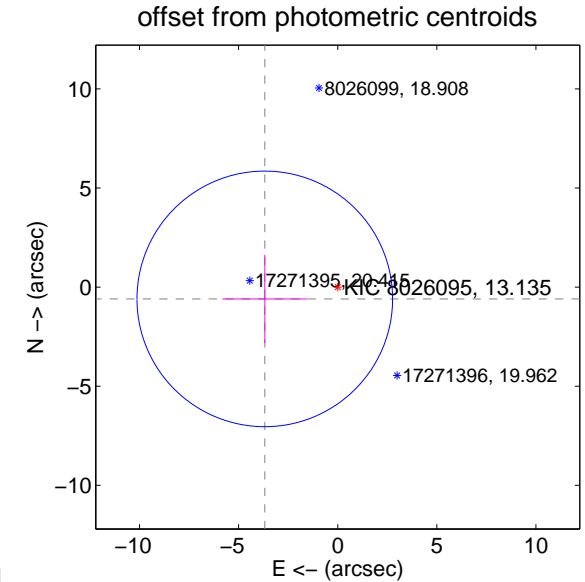
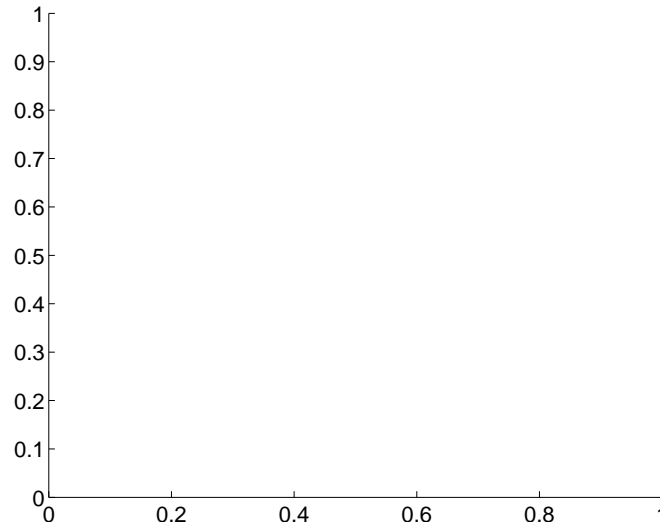
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	3.73 ± 2.15	1.73	3.68 ± 2.15	-0.60 ± 2.23

There is no PRF-fit offset from OOT-fit

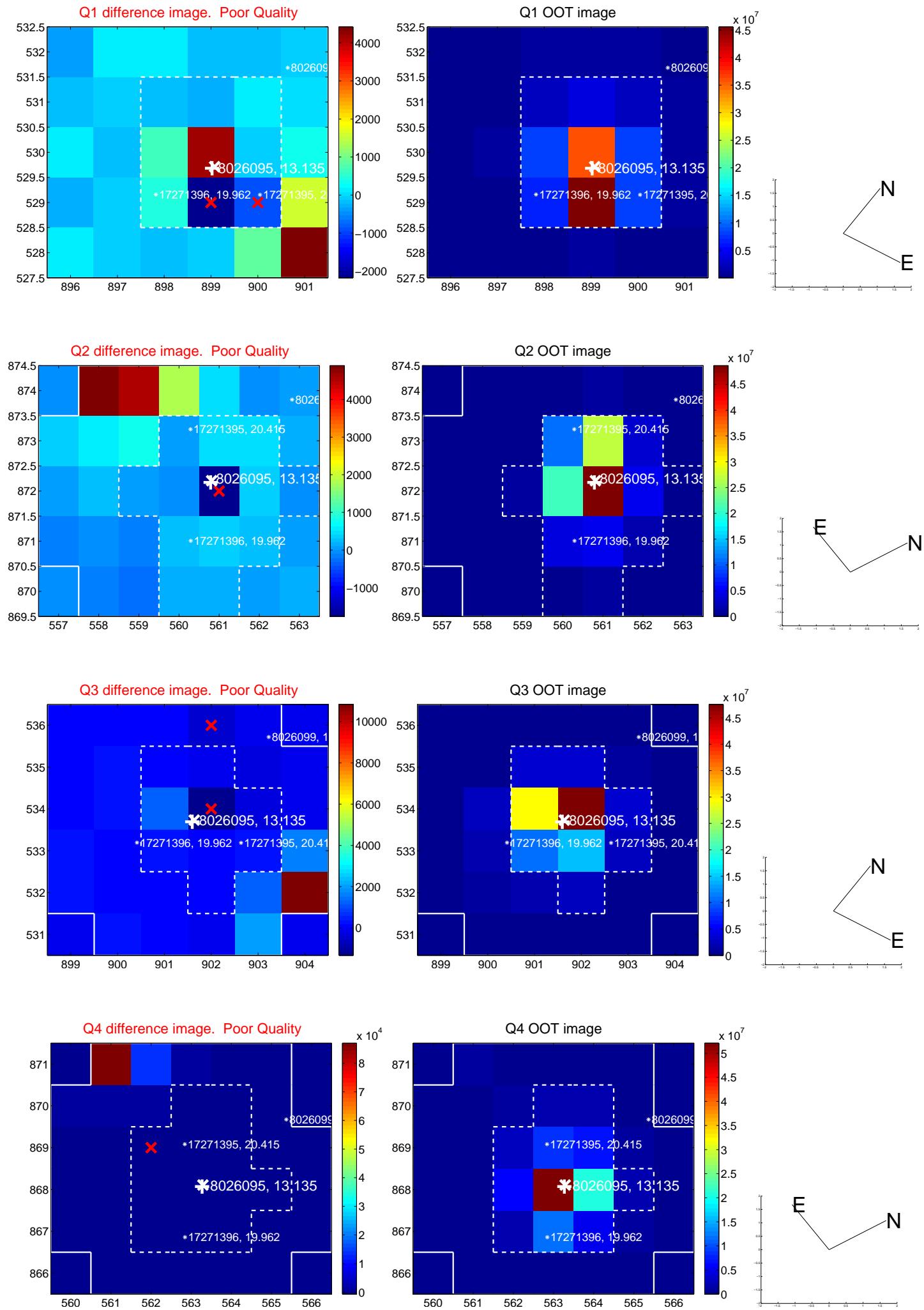


There is no PRF-fit offset from KIC

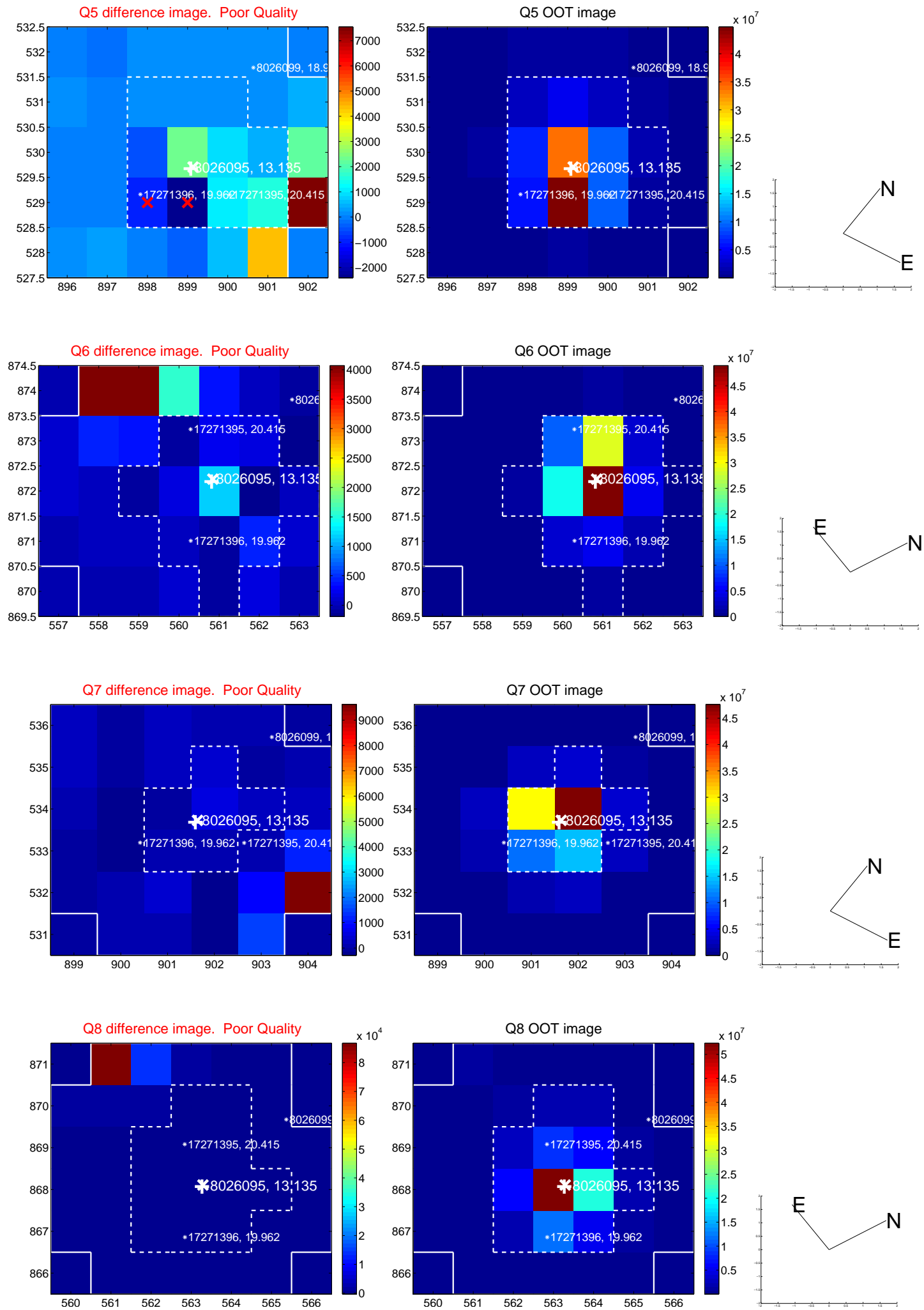


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

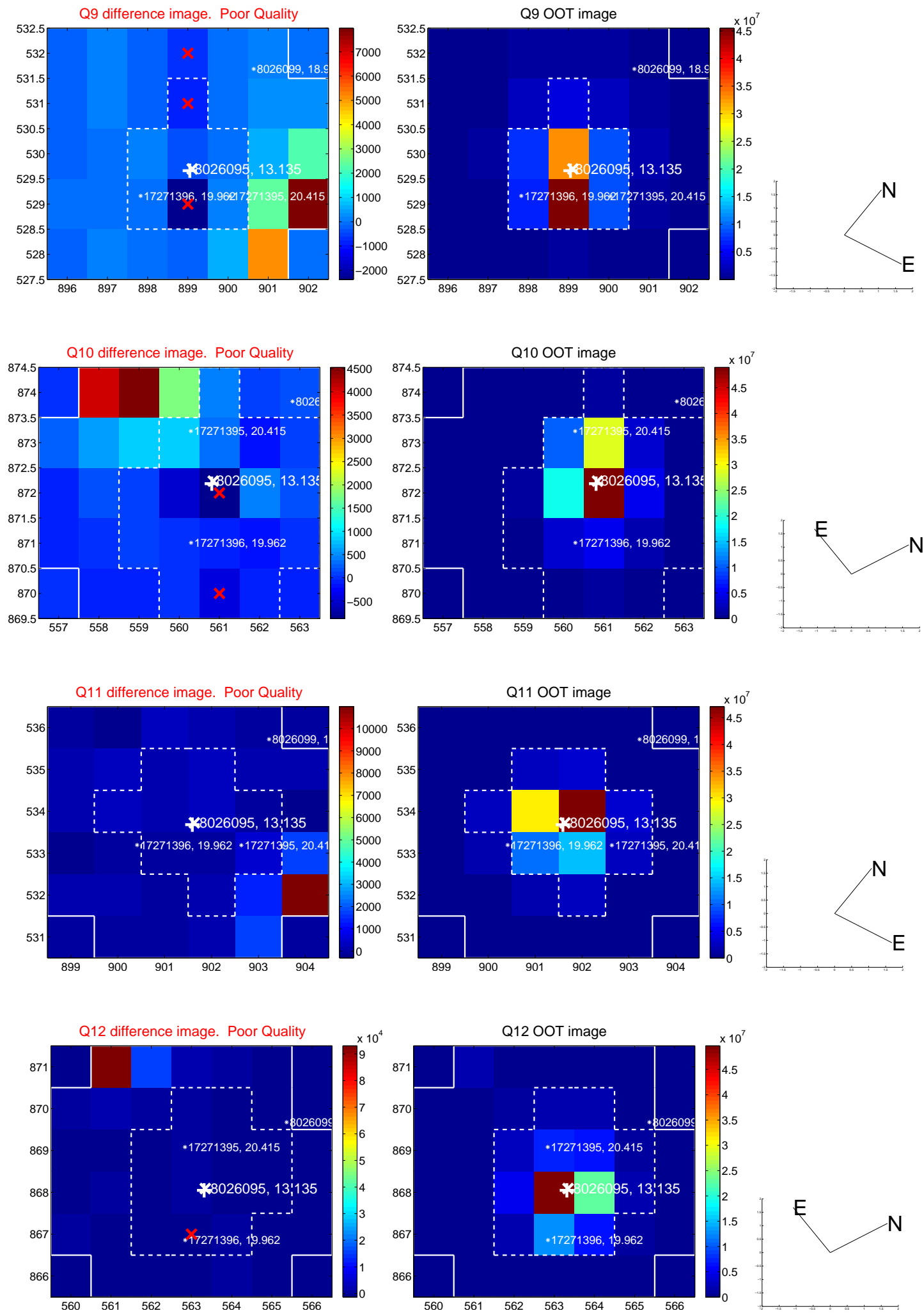
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



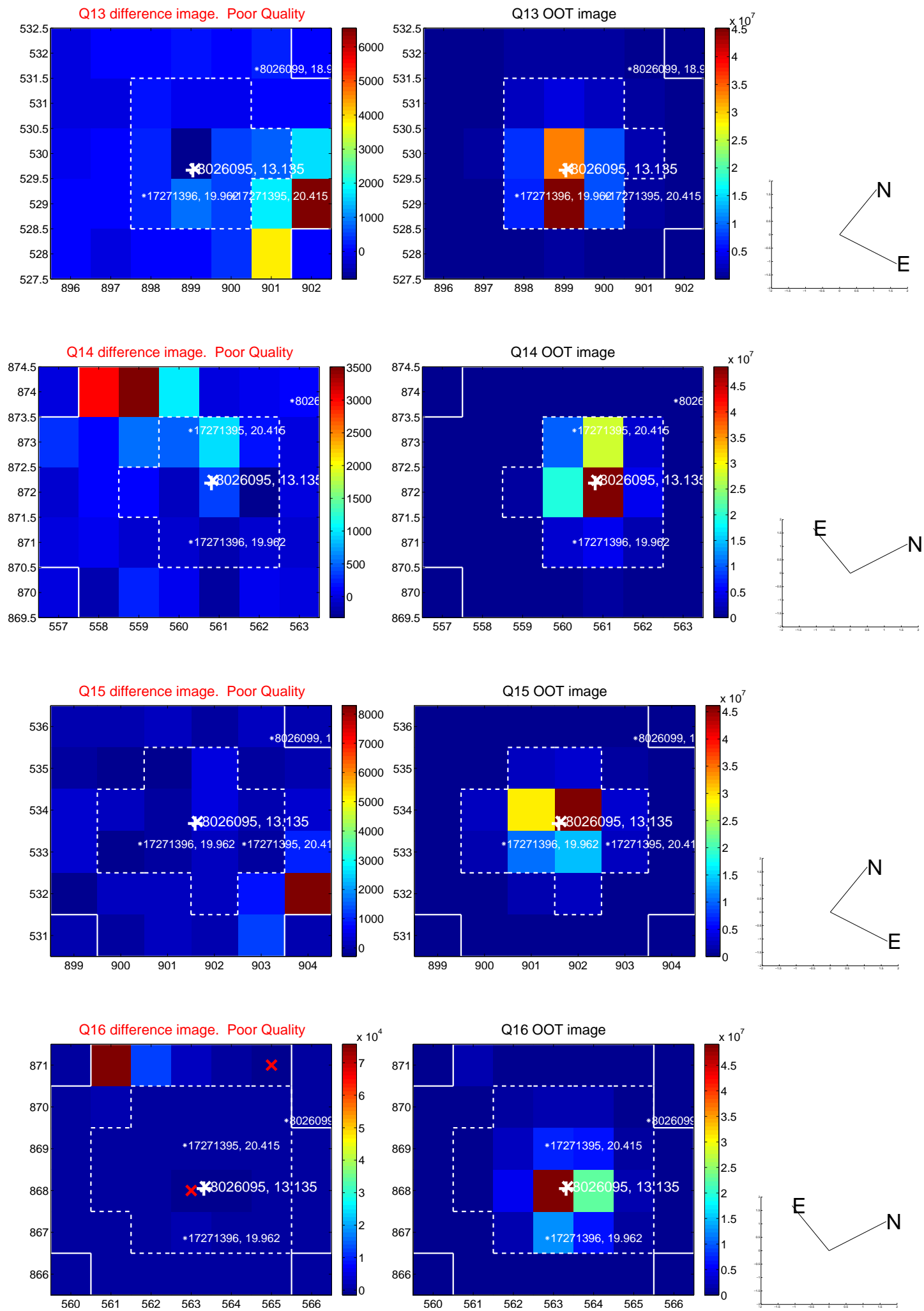
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



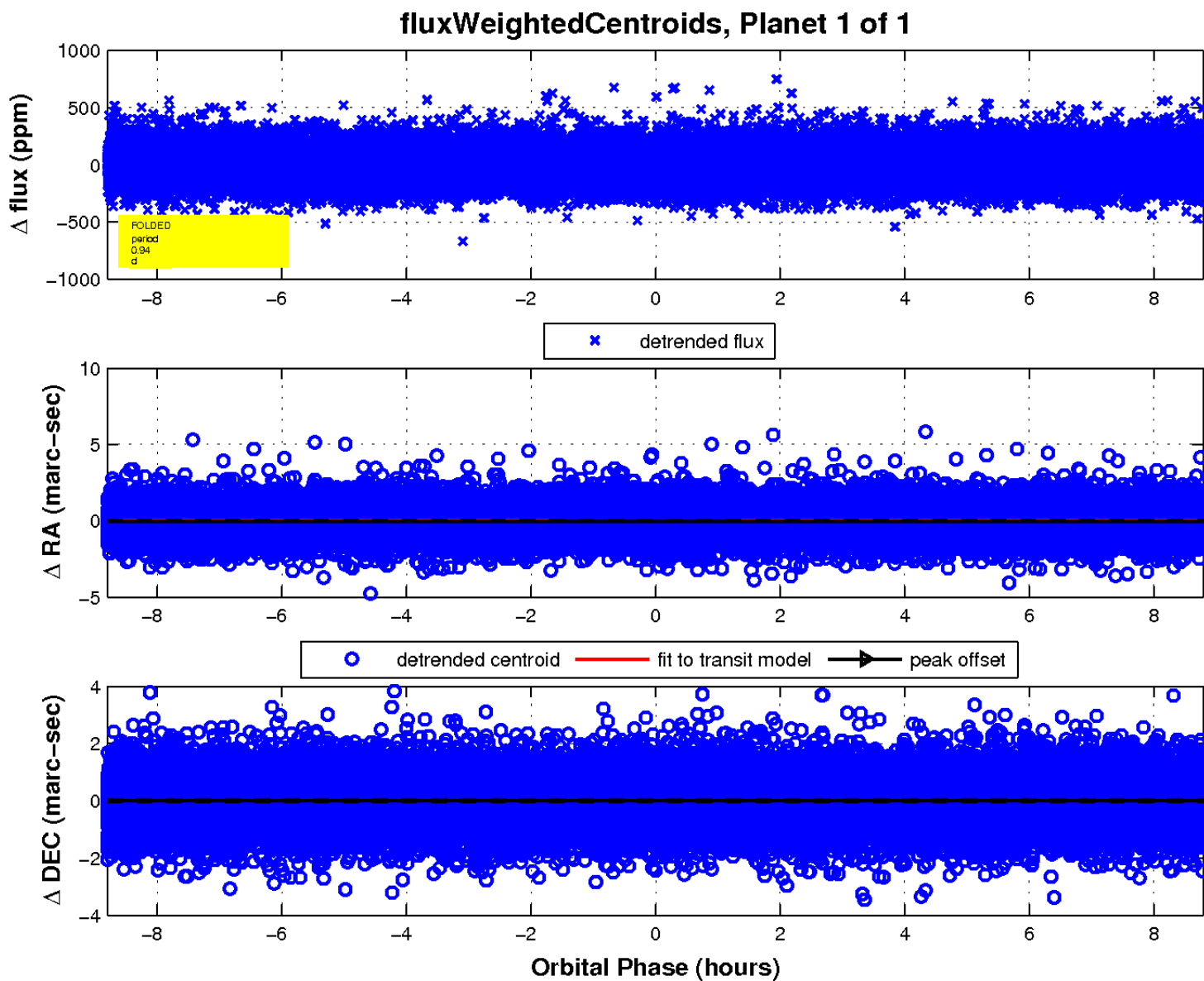
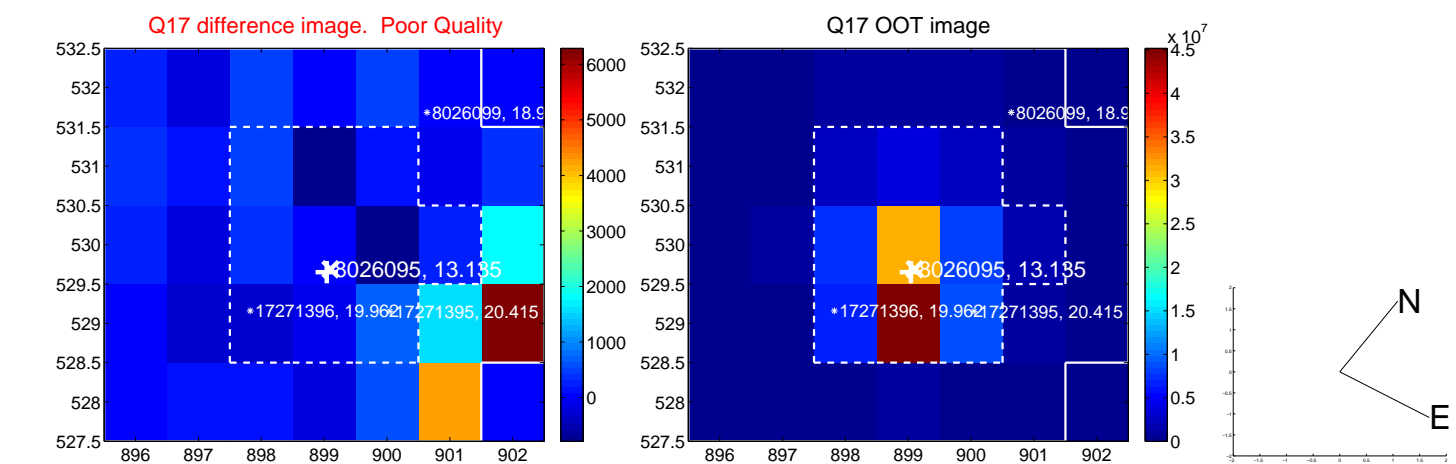
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

