

KIC 005817243

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})
005817243-01	OBS	No	2.935936	132.226907	0.3	31.061	7.8	0.1	0.92	5966	0.05	660.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005817243-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL — LPP_DV — 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.

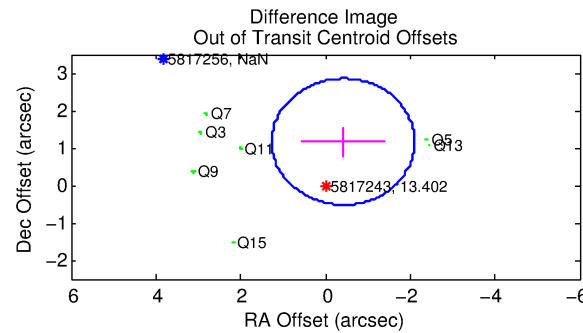
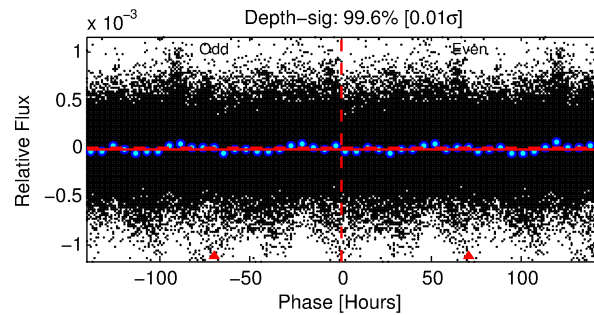
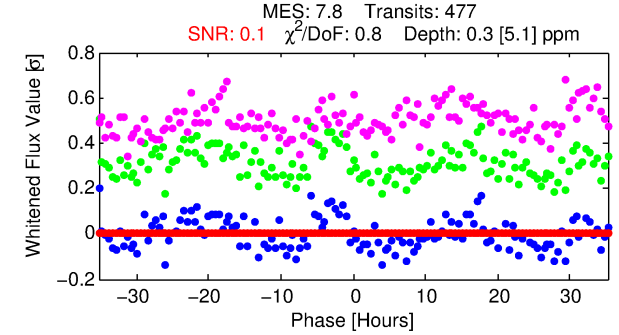
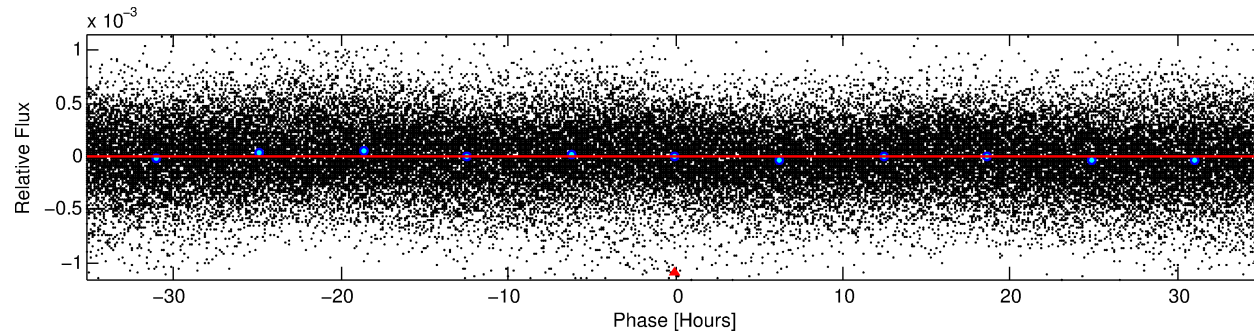
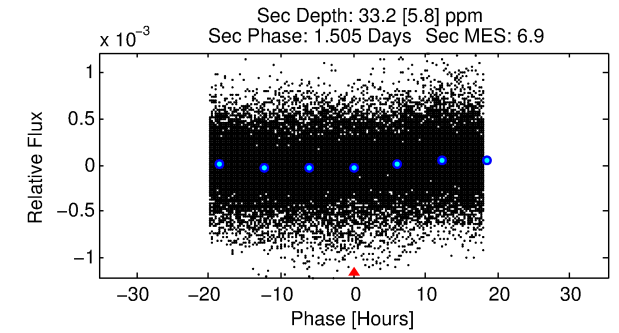
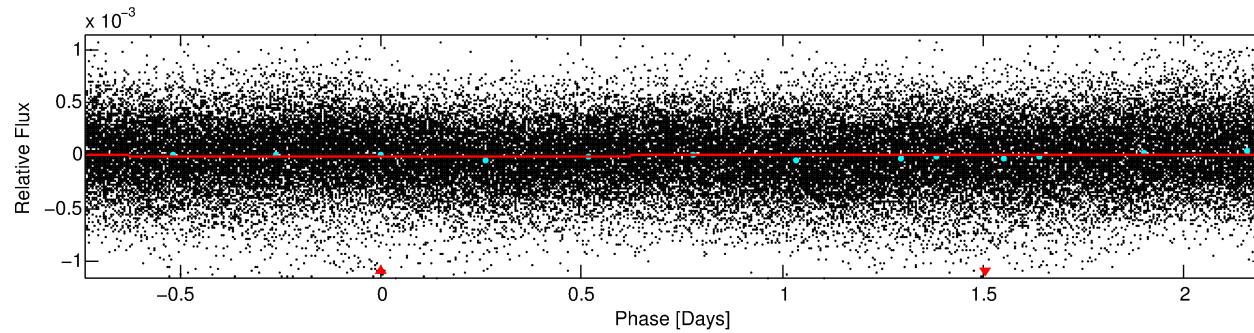
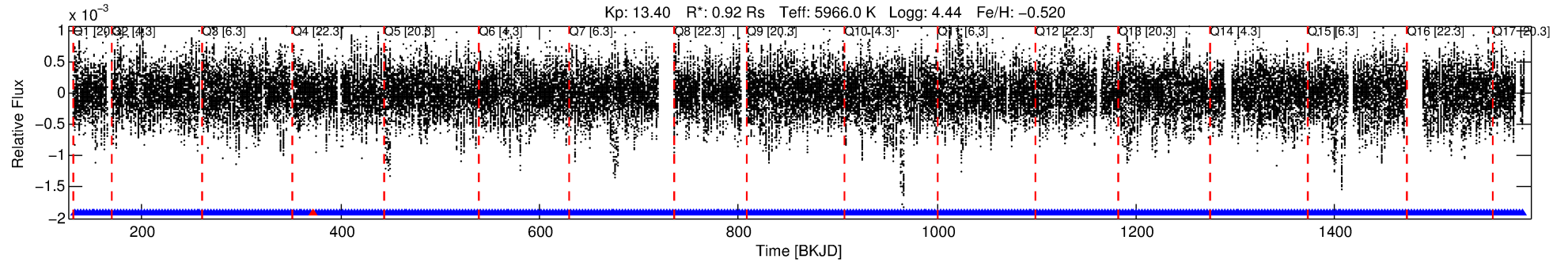
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005817243-01

No Significant Match Found

DV One-Page Summary

KIC: 5817243 Candidate: 1 of 1 Period: 2.936 d



DV Fit Results:

Period = 2.93594 [0.00527] d
Epoch = 132.2269 [0.9568] BKJD
Rp/R* = 0.0005 [0.0242]
a/R* = 1.02 [8.37]
b = 0.27 [883.80]
Seff = 660.48 [221.16]
Teq = 1293 [108] K
Rp = 0.05 [2.42] Re
a = 0.0381 [0.0082] AU
Ag = 10316.04 [986013.93] [0.01 σ]
Teffp = 20142 [481307] K [0.04 σ]

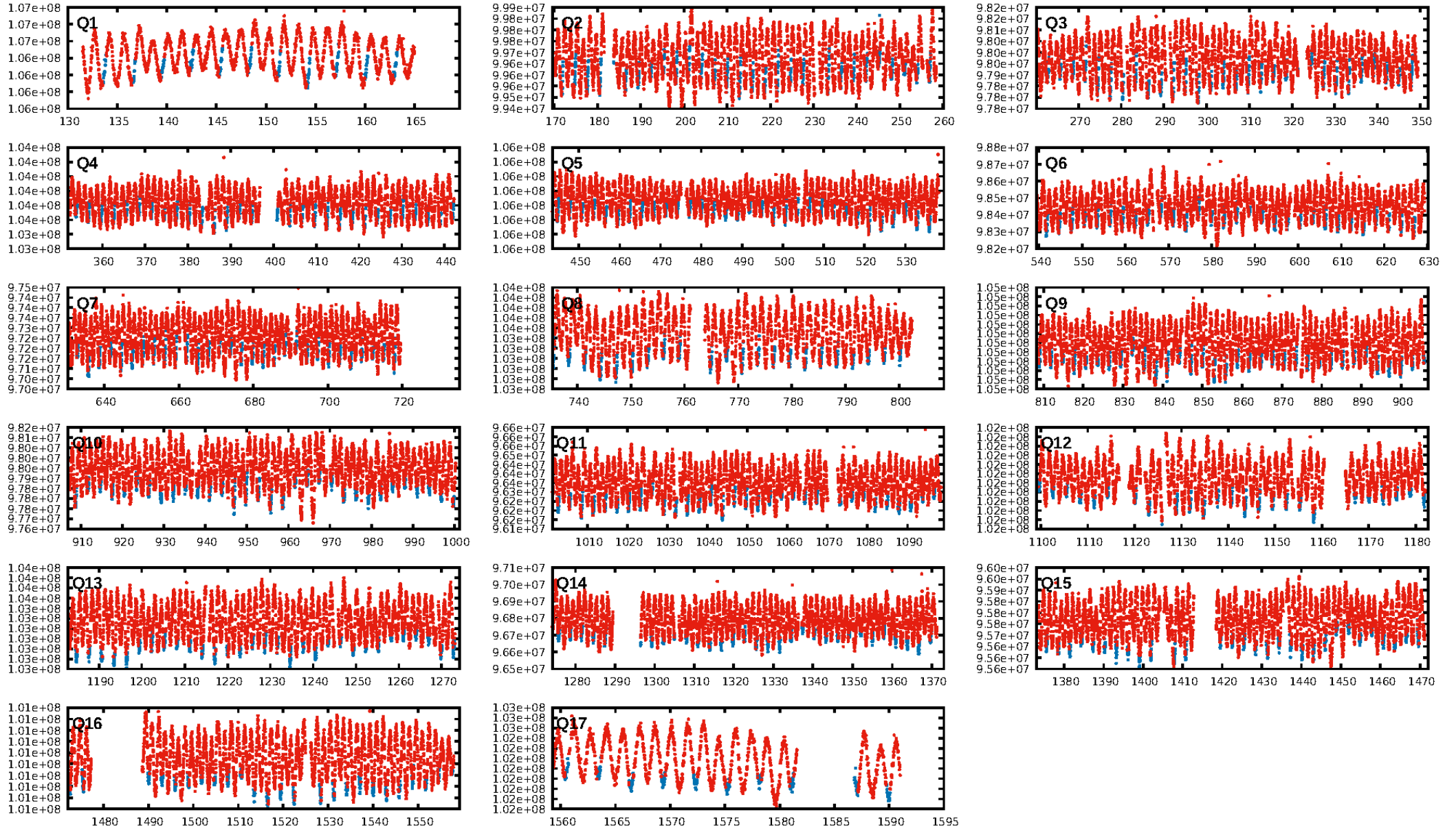
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [454/455]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.239 arcsec [2.20 σ]
KicOffset-rm: 1.238 arcsec [2.47 σ]
OotOffset-st: 0/4/0/3 [7]
KicOffset-st: 0/4/0/3 [7]
DiffImageQuality-fgm: 0.00 [0/7]
DiffImageOverlap-fno: 1.00 [17/17]

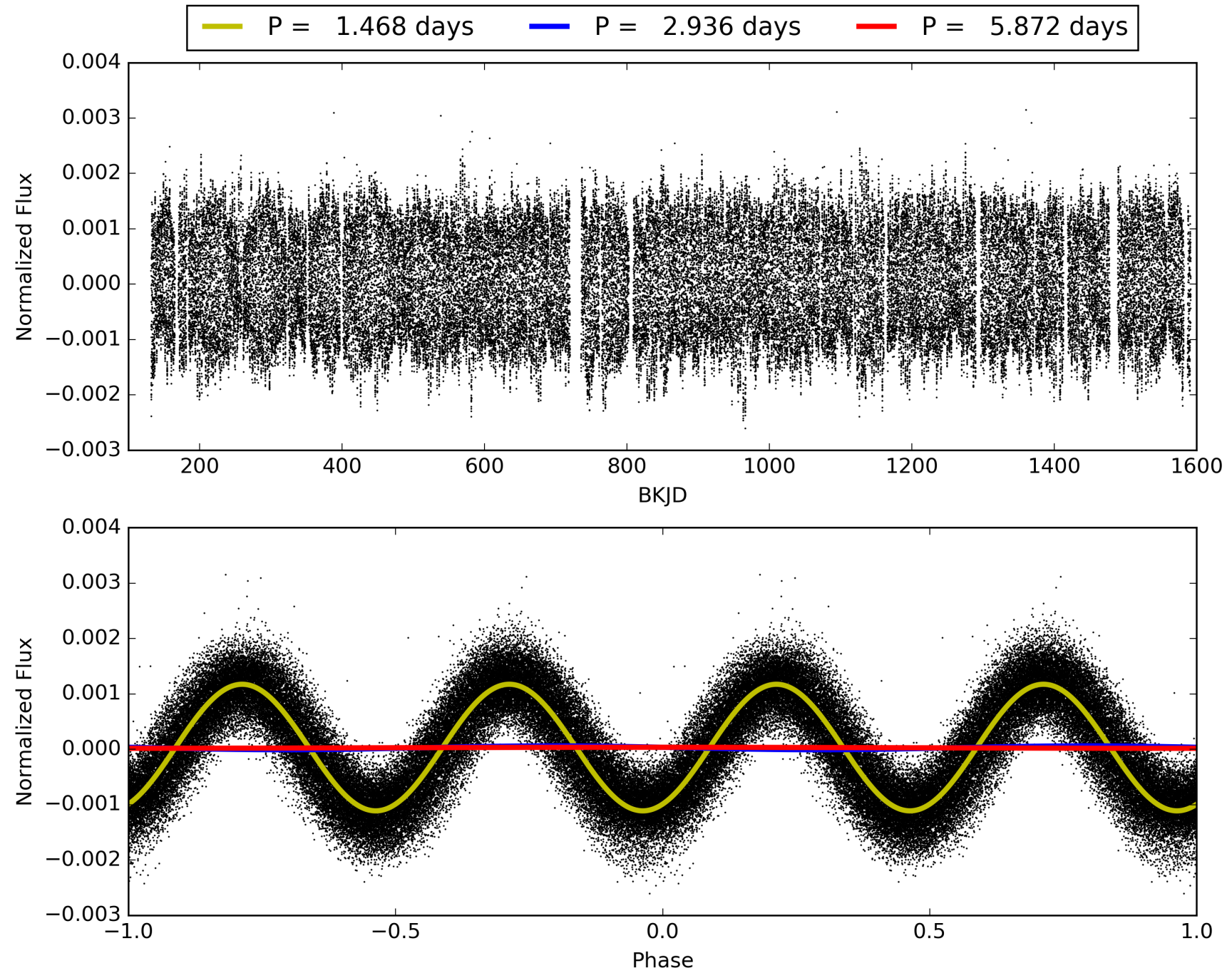
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:09:28 Z

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

TCE 005817243-01, PDC Light Curves

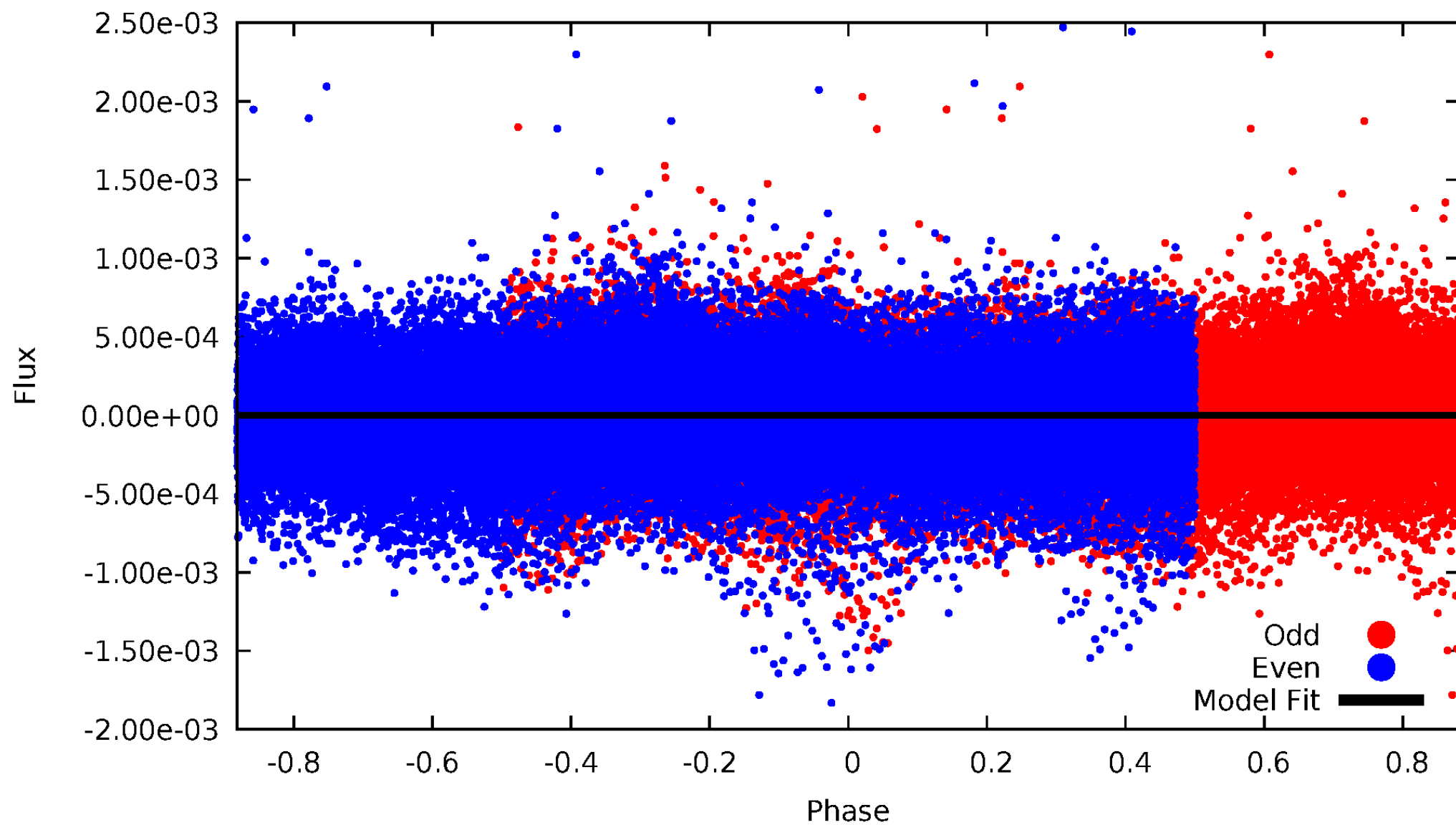


TCE 005817243-01



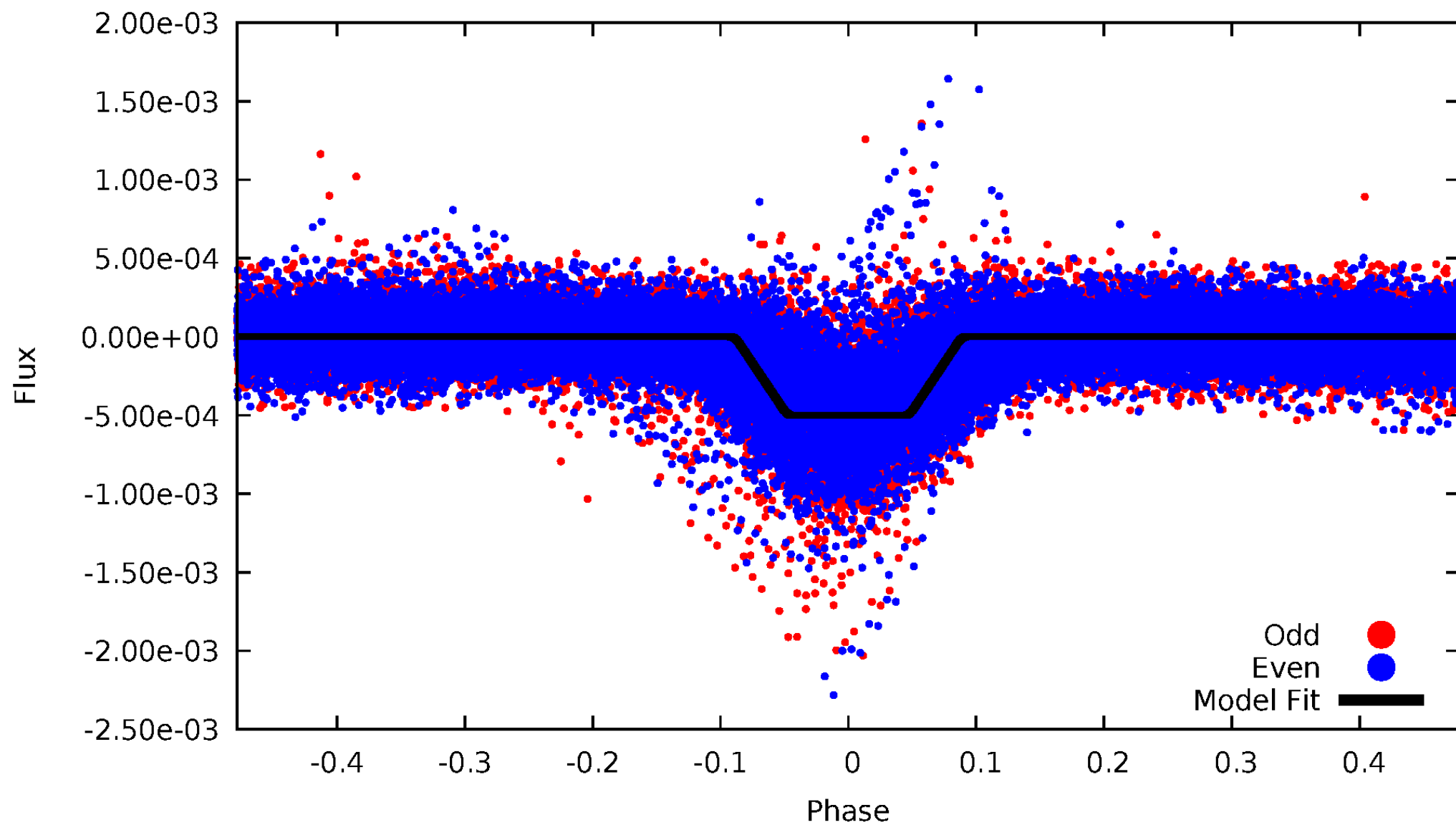
DV Odd/Even

TCE 005817243-01



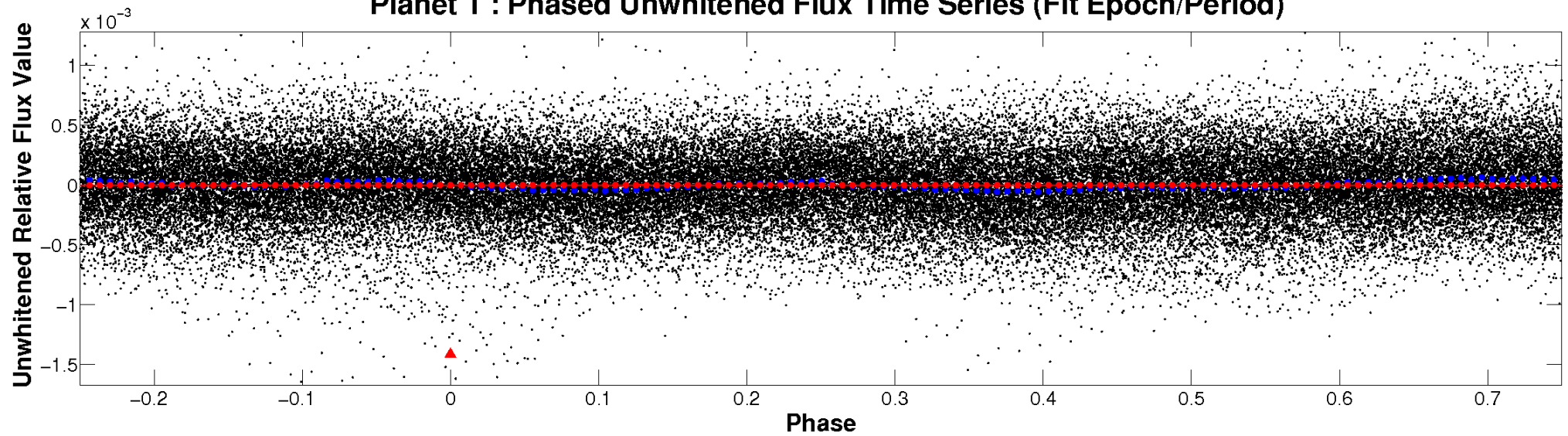
ALT Odd/Even

TCE 005817243-01

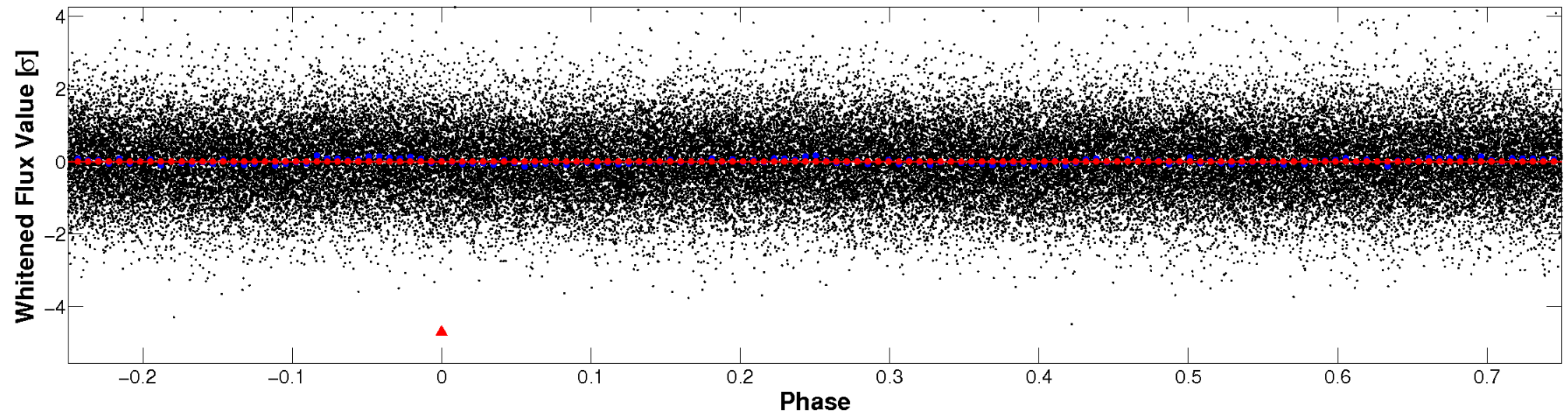


Non-Whitened Vs. Whitened Light Curve

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

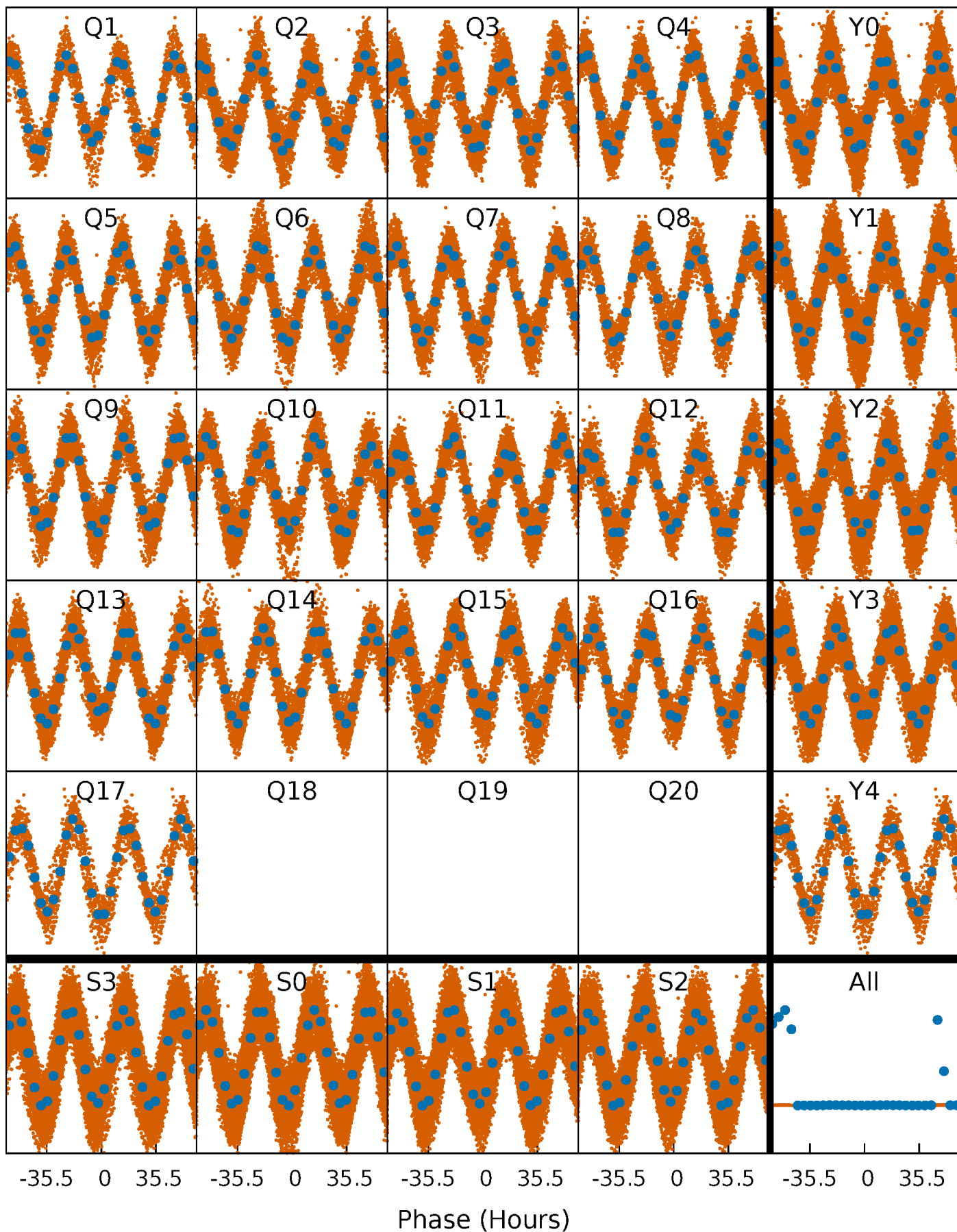


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



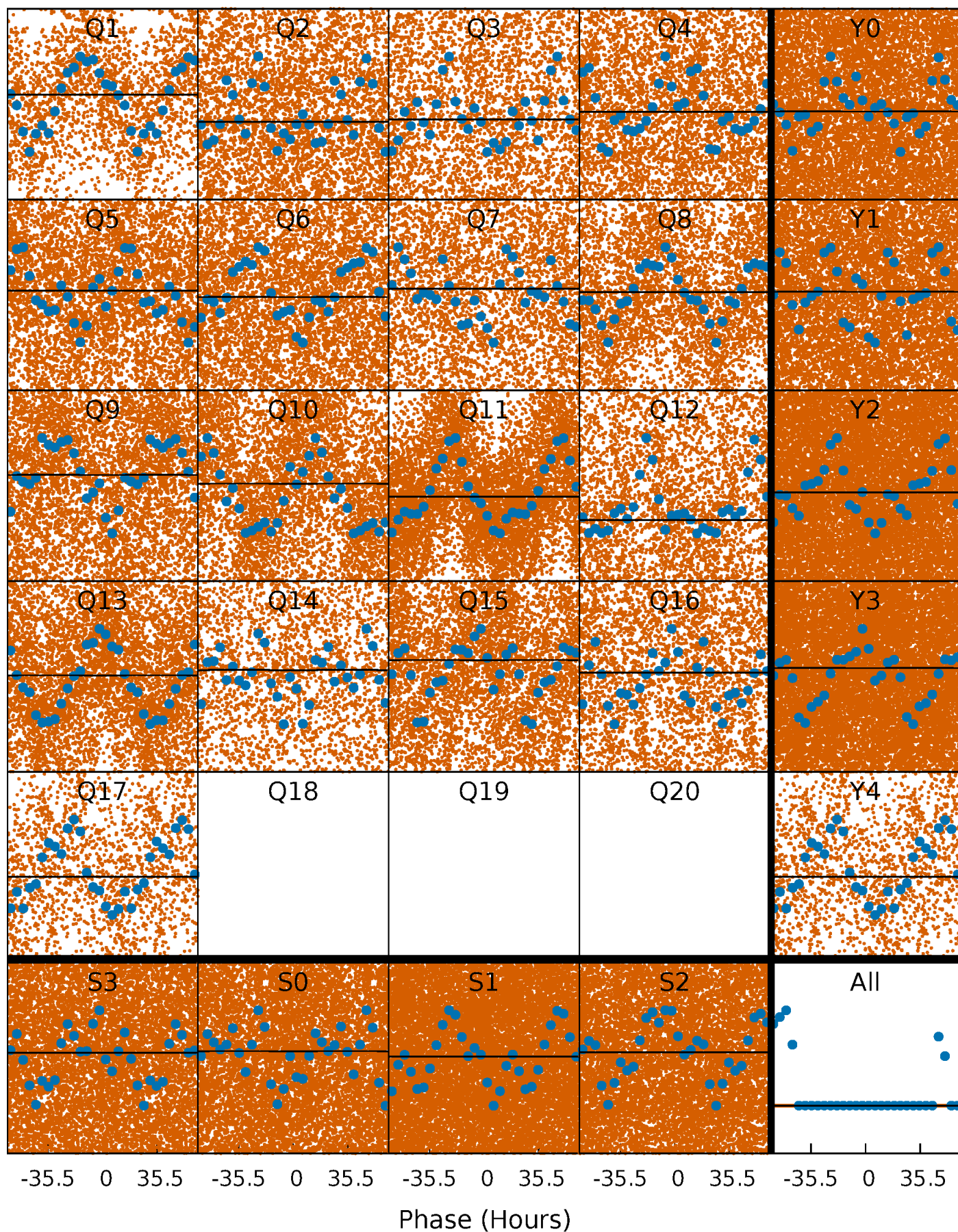
PDC Quarter-Phased Transit Curves

TCE 005817243-01 P= 2.935936 Days $T_0=132.226907$ (BKJD)



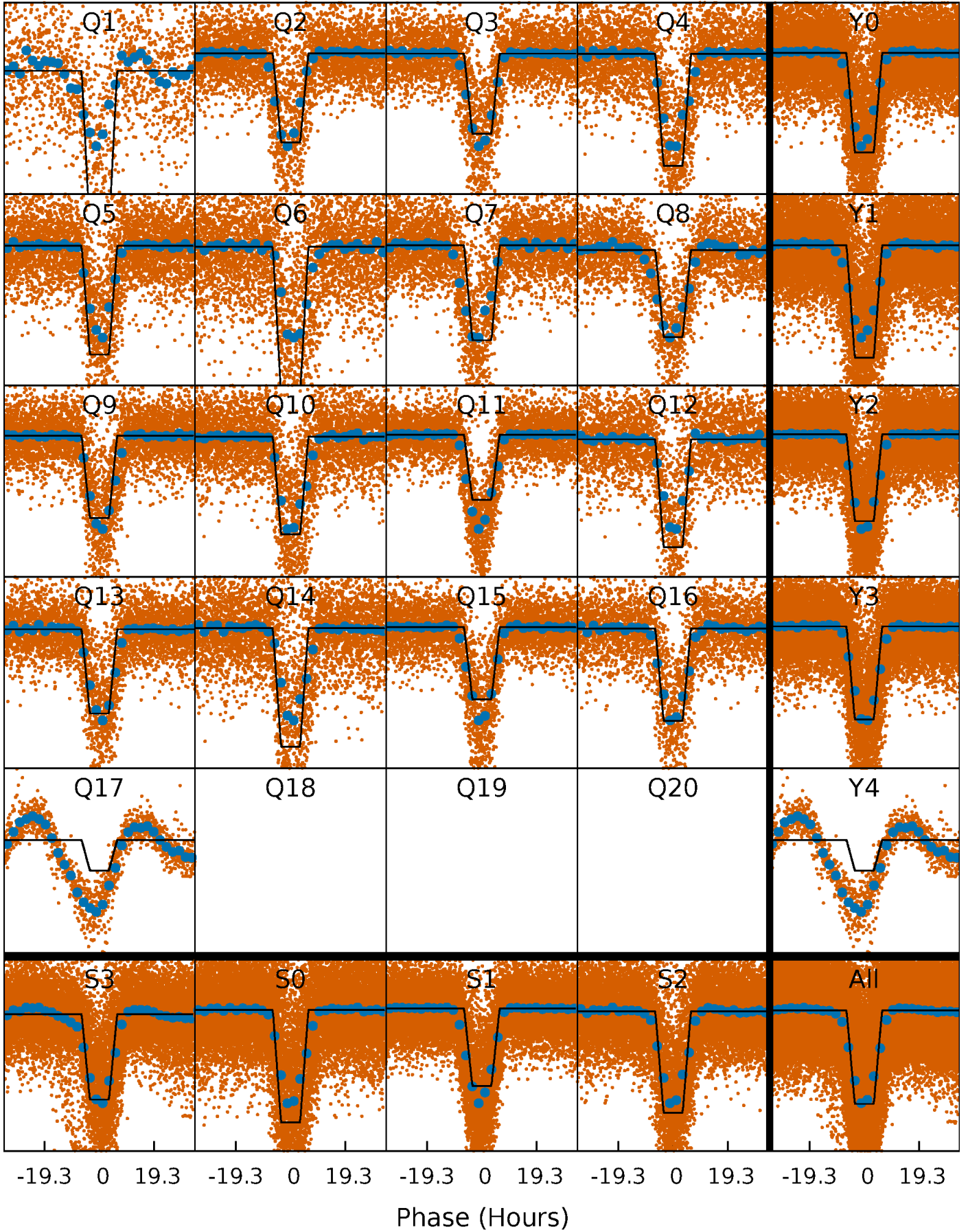
DV Quarter-Phased Transit Curves

TCE 005817243-01 P= 2.935936 Days $T_0=132.226907$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

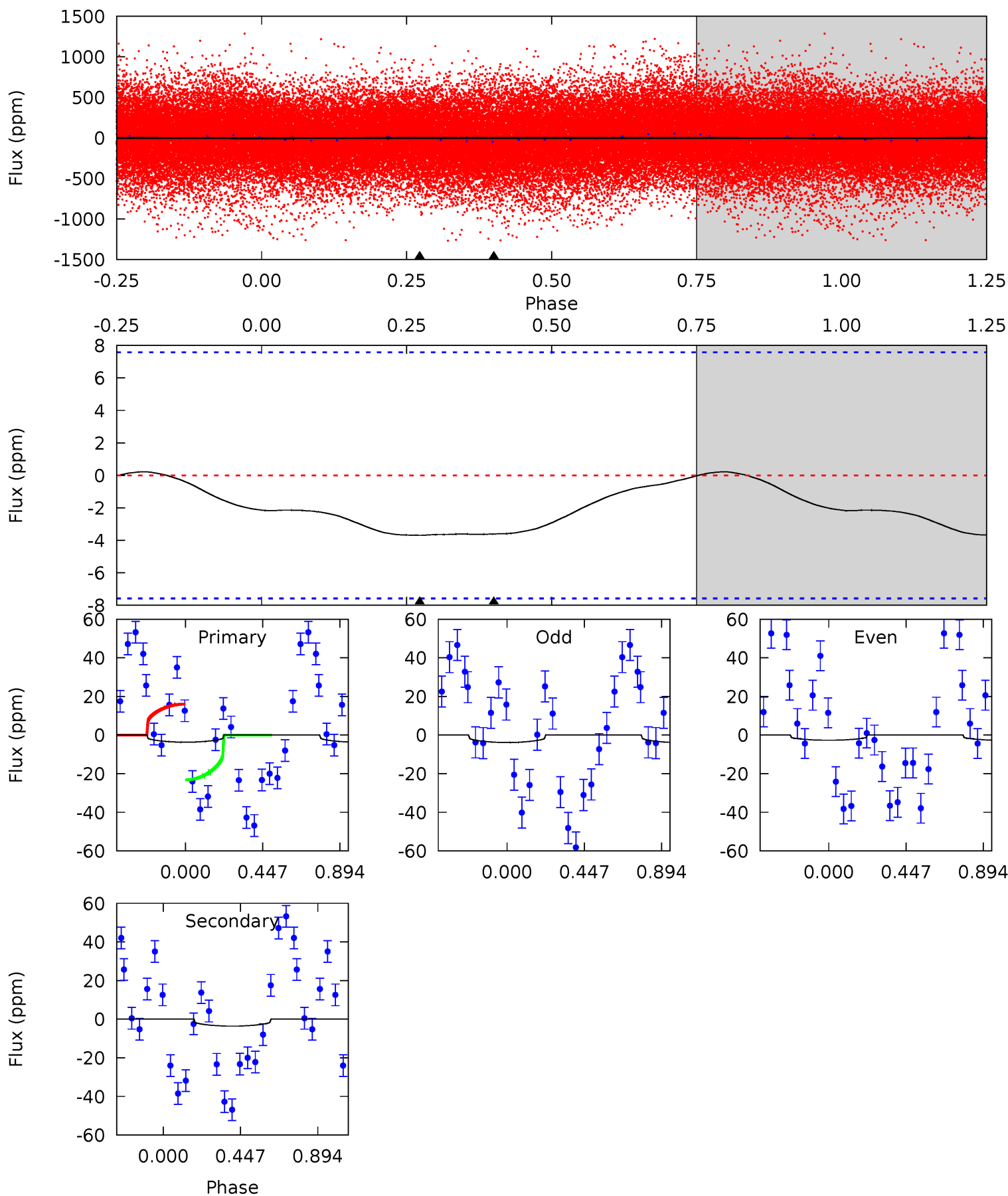
TCE 005817243-01 P= 2.936369 Days $T_0=132.224643$ (BKJD)



DV Model-Shift Uniqueness Test

005817243-01, P = 2.935936 Days, E = 129.290971 Days

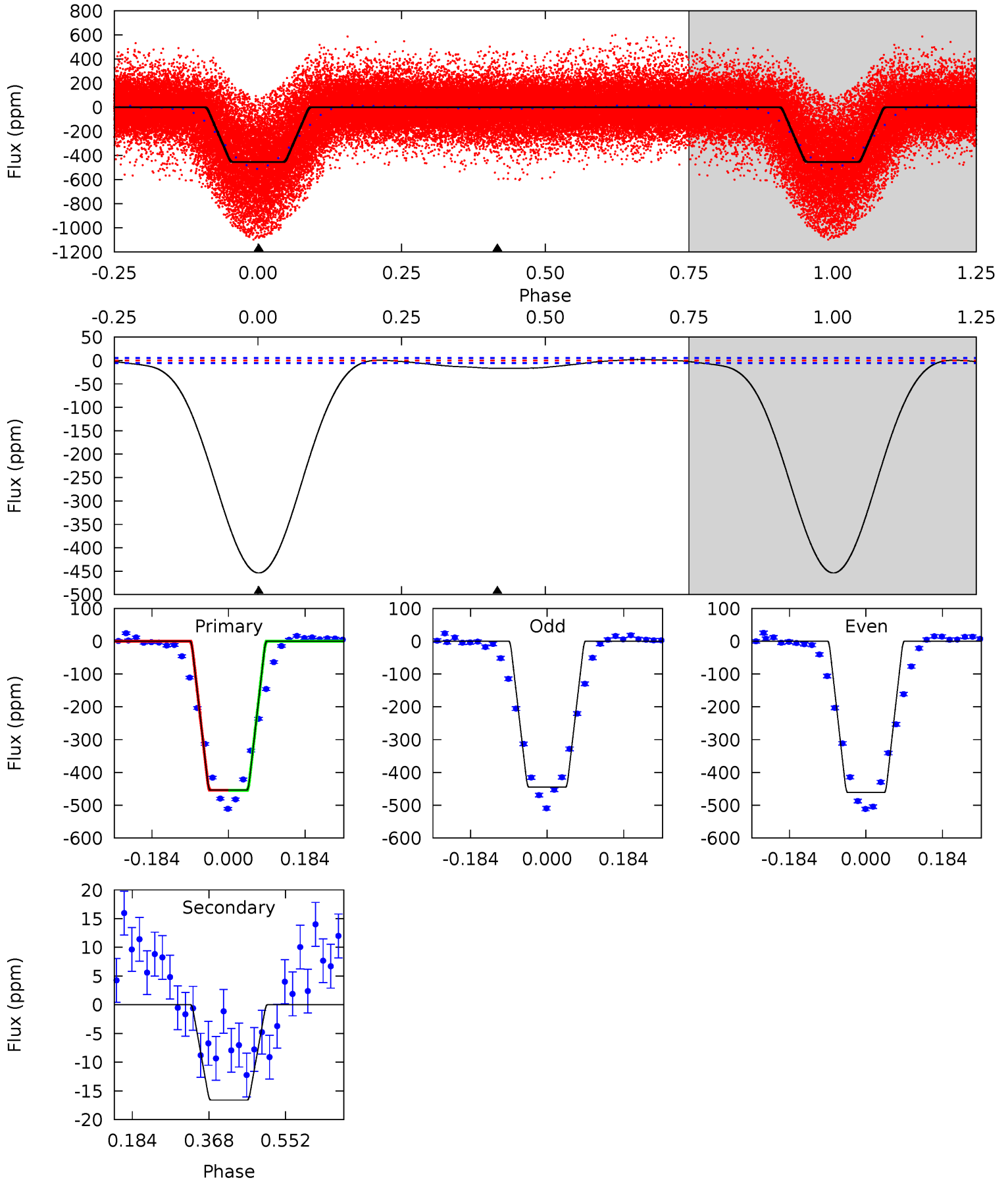
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.07	2.02	0	0	4.24	0.76	0.16	2.07	2.07	2.02	2.02	0.33	-0.61	0.06	2.04



Alt Model-Shift Uniqueness Test

005817243-01, P = 2.936369 Days, E = 129.288274 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
364.0	13.3	0	0	4.43	1.33	3.15	364.0	364.0	13.3	13.3	6.48	1.01	0.00	0.30



Stellar Parameters For KIC 005817243

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5966^{+161}_{-161}	$4.443^{+0.116}_{-0.174}$	$-0.520^{+0.300}_{-0.300}$	$0.918^{+0.235}_{-0.126}$	$0.852^{+0.108}_{-0.072}$	$1.553^{+0.796}_{-0.718}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-14%	+13%/-8%	+51%/-46%
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 005817243-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-4 ± 2	$1.65^{+1.67}_{-1.18}$	1819^{+120}_{-91}	2627^{+1423}_{-4765}	$0.958^{+12.453}_{-0.777}$
Alt.	-17 ± 1	$2.73^{+2.43}_{-1.58}$	1819^{+121}_{-92}	2922^{+955}_{-648}	$1.737^{+8.449}_{-1.237}$

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

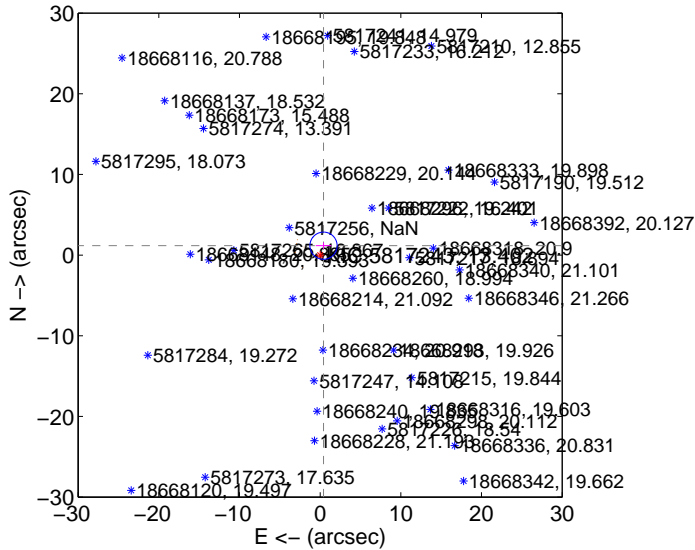
Supplemental centroid analysis for 005817243-01. Kepler magnitude: 13.40. Transit SNR 0.07

There are 0 quarters with good PRF difference image offsets

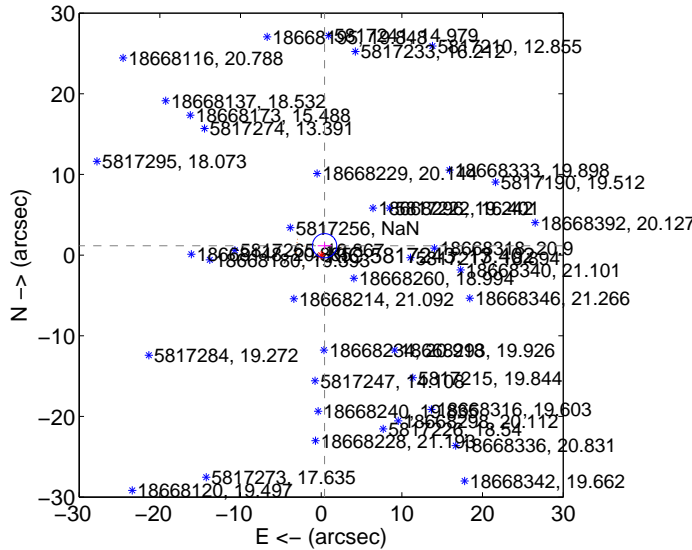
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.239 ± 0.562	2.20	-0.419 ± 0.958	1.166 ± 0.383
PRF-fit source offset from KIC position	1.238 ± 0.501	2.47	-0.421 ± 0.855	1.164 ± 0.393
photometric centroid source offset	—	—	—	—

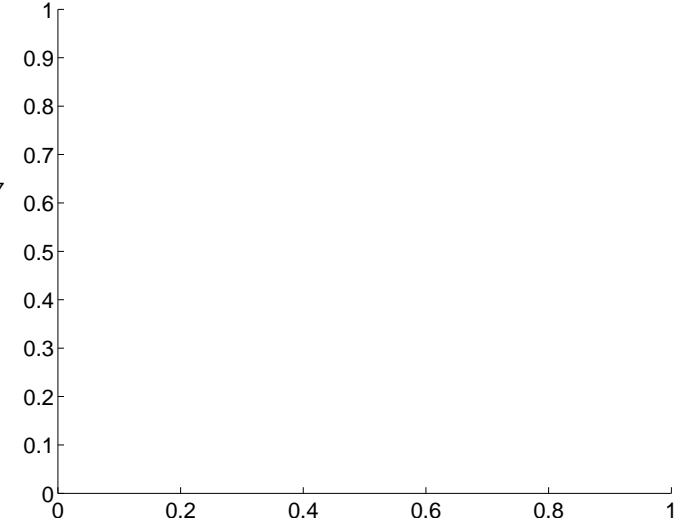
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

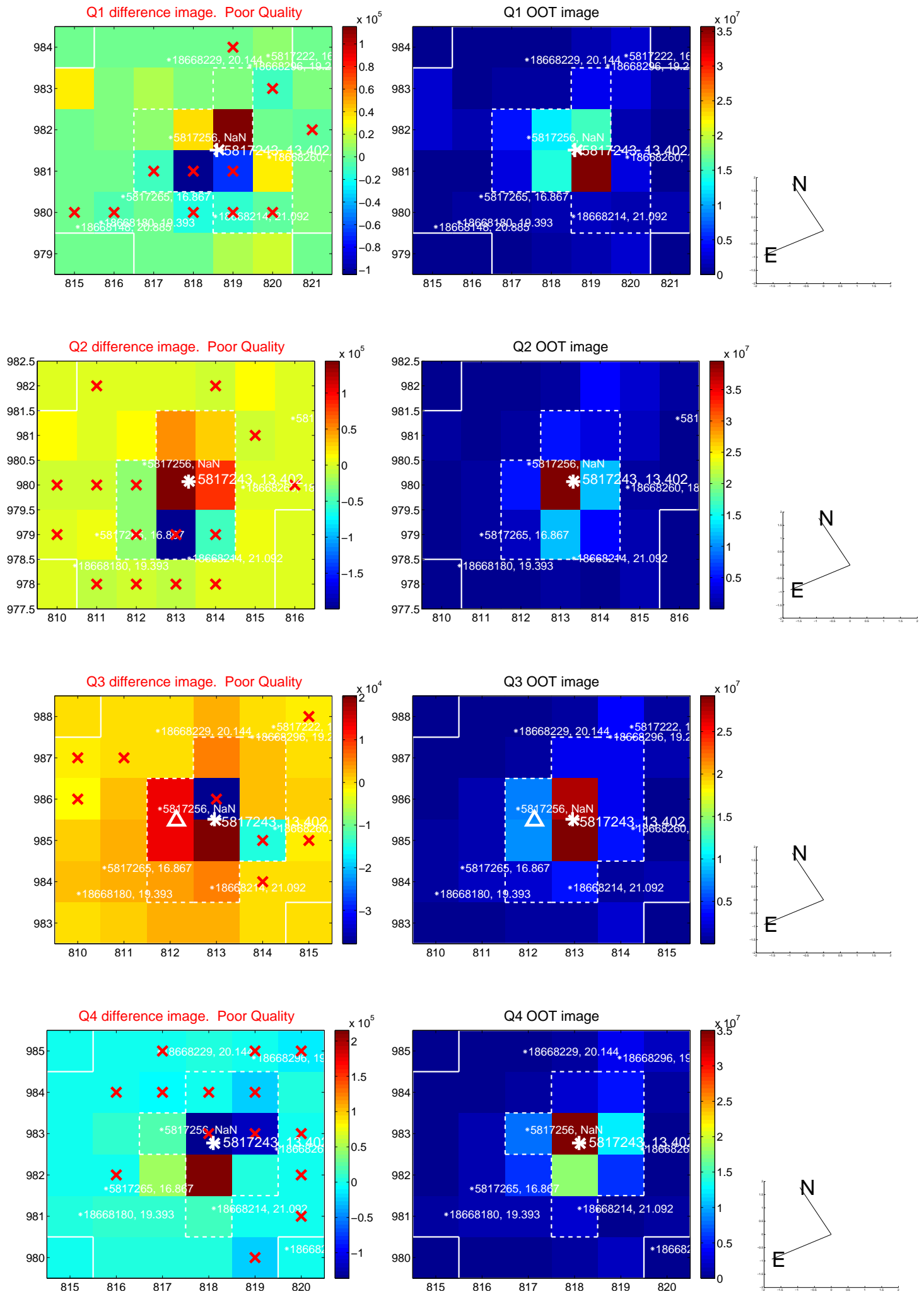


There are no photometric centroids

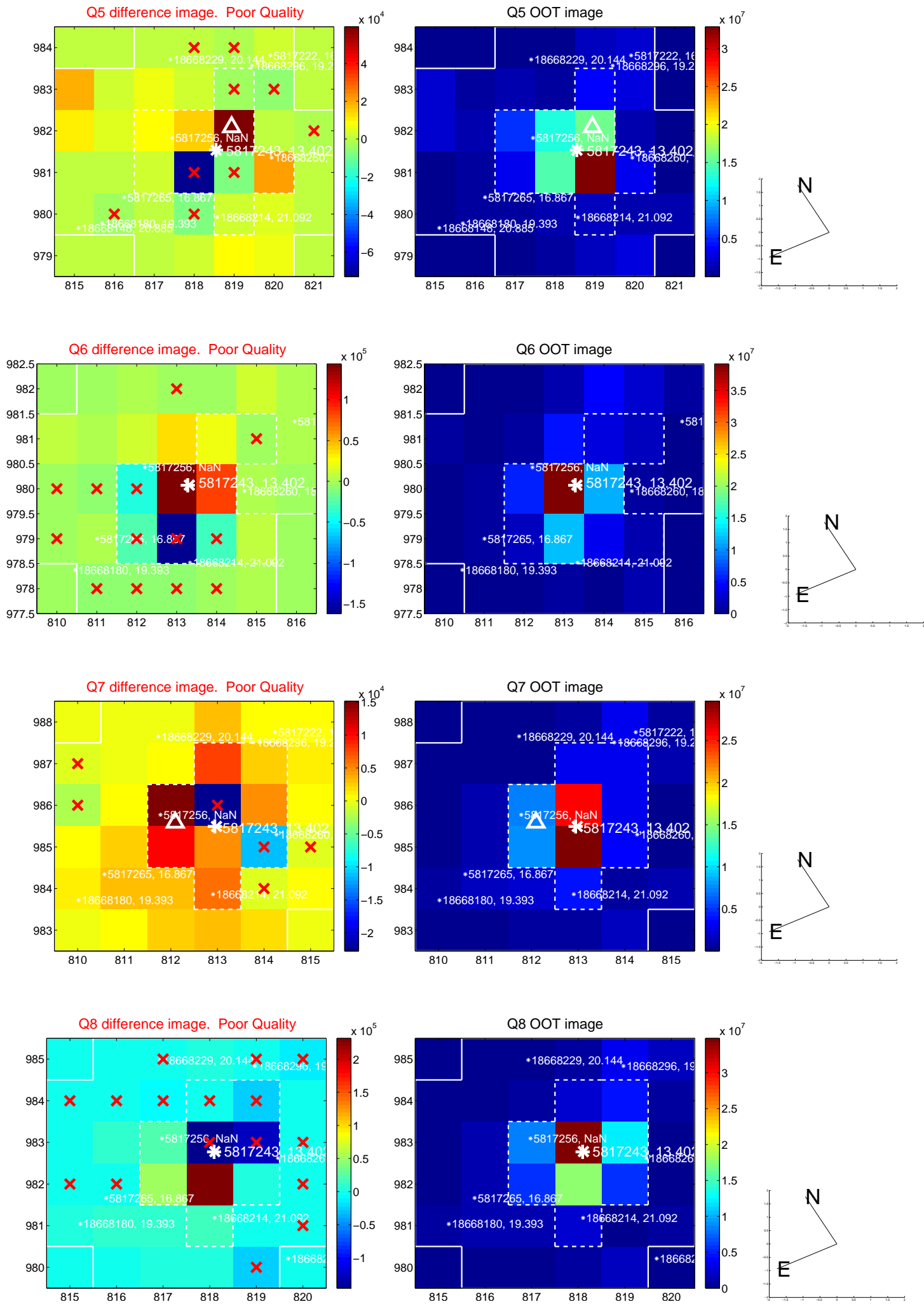


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

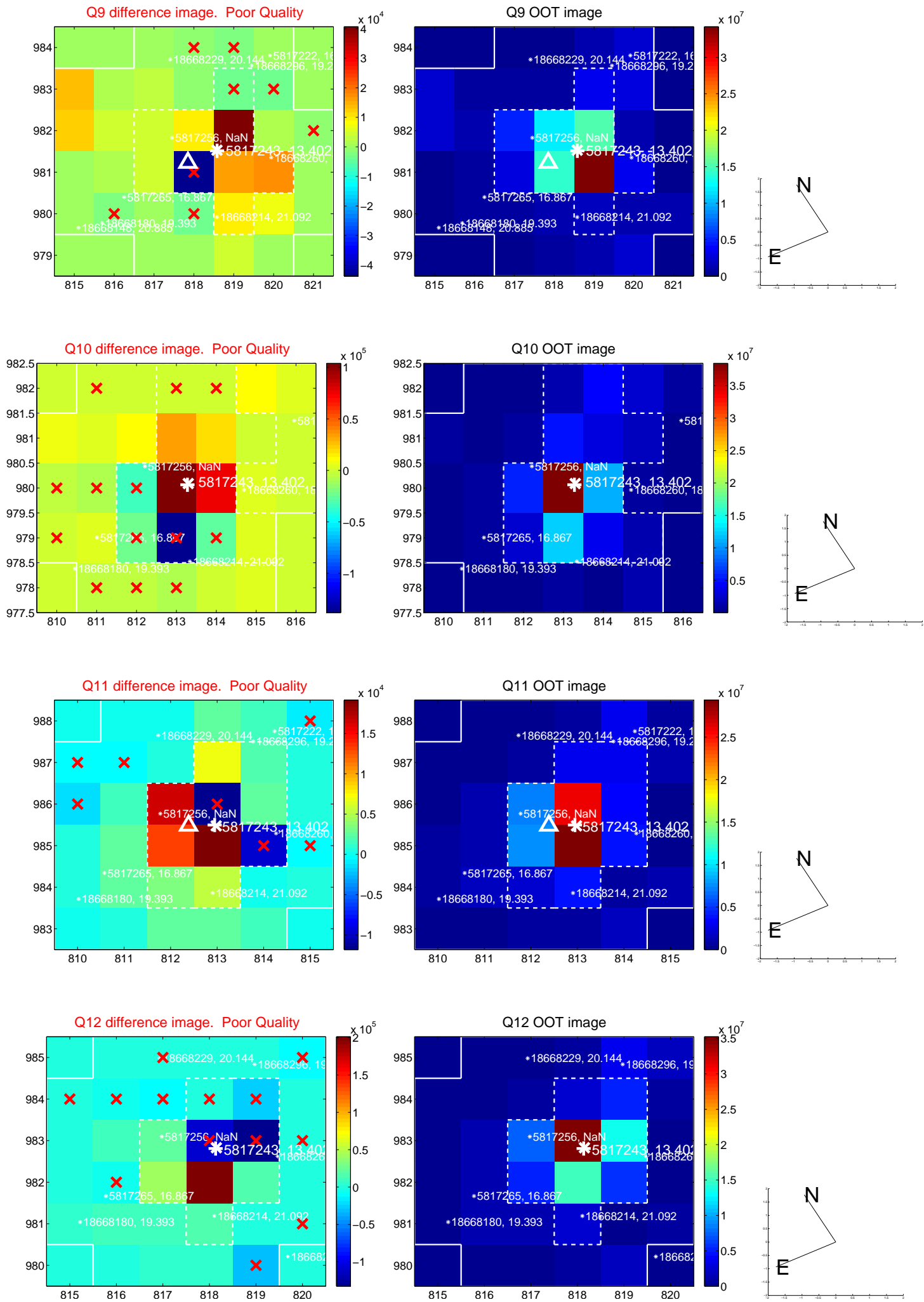
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



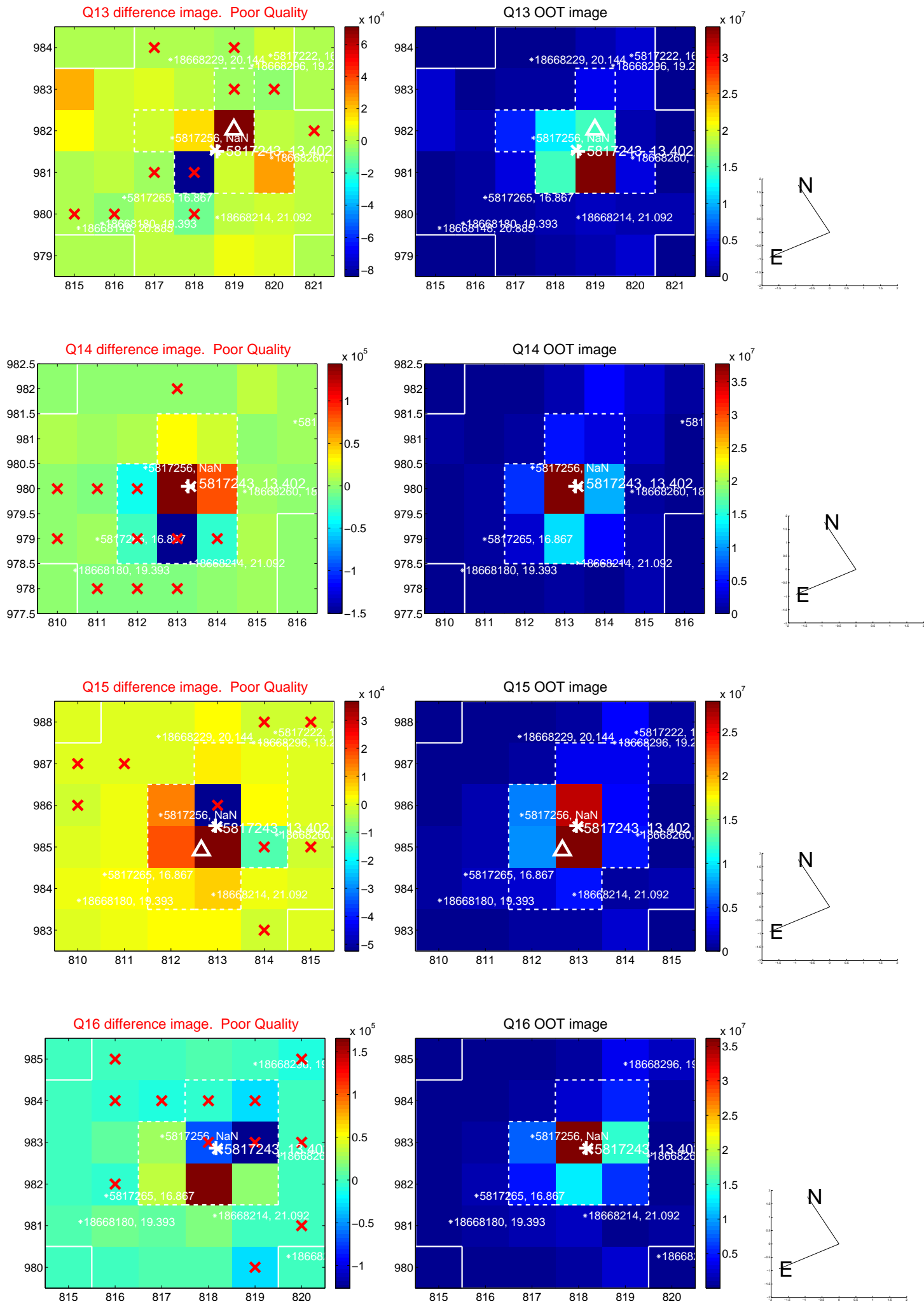
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



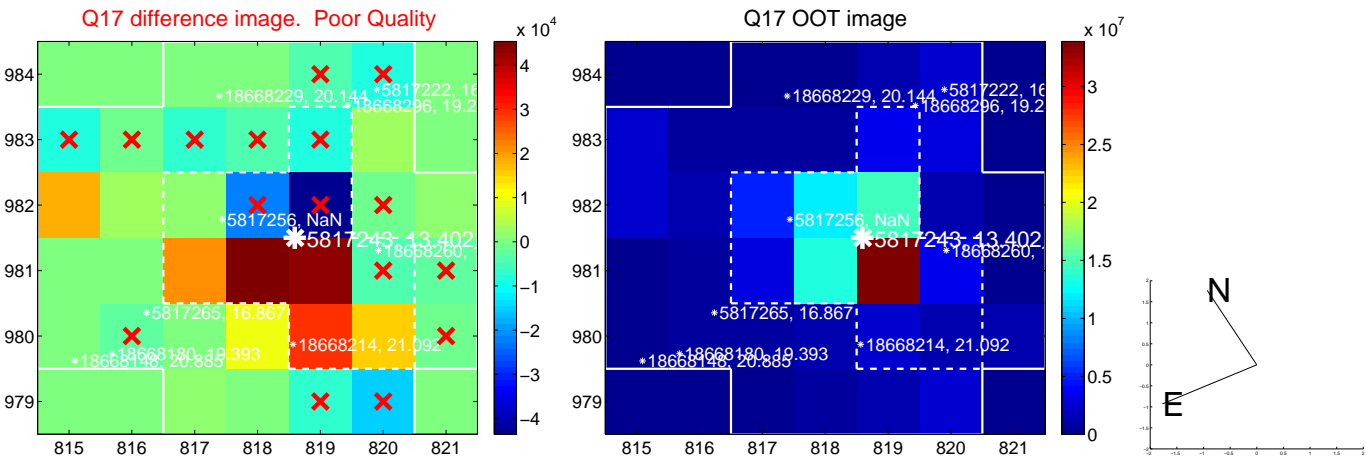
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

