

KIC 008263882

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})
008263882-01	OBS	No	1.250647	131.645516	3.1	15.008	8.8	1.7	1.44	6781	0.26	6420.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008263882-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—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.

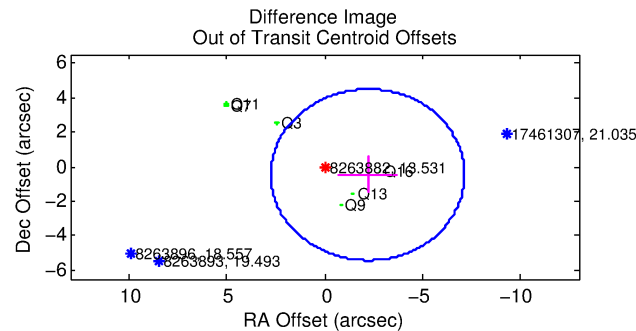
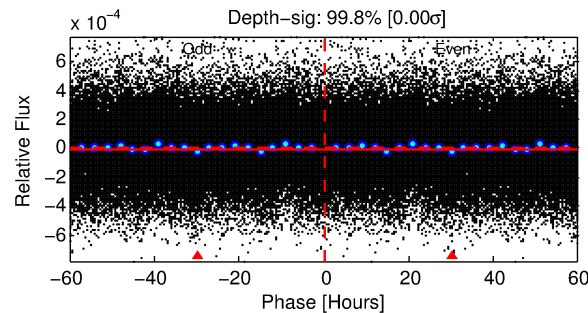
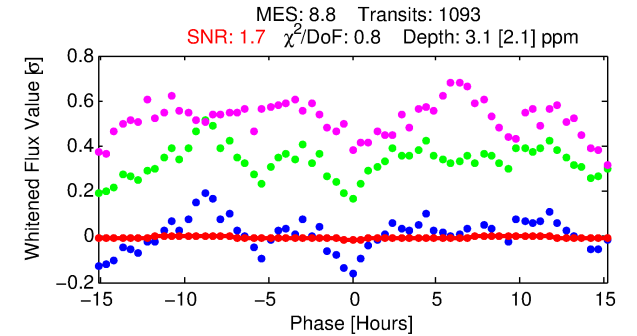
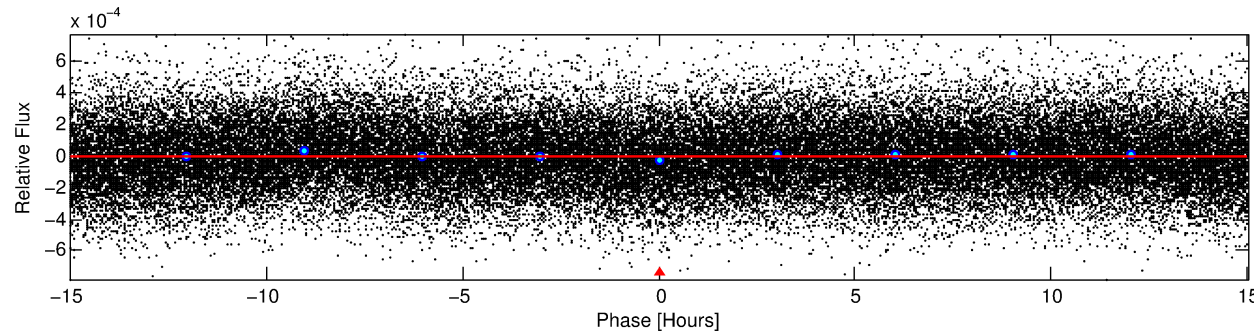
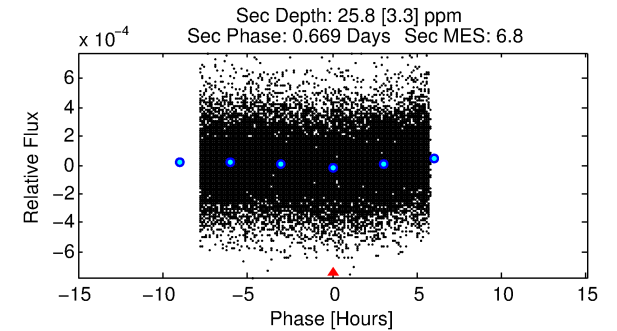
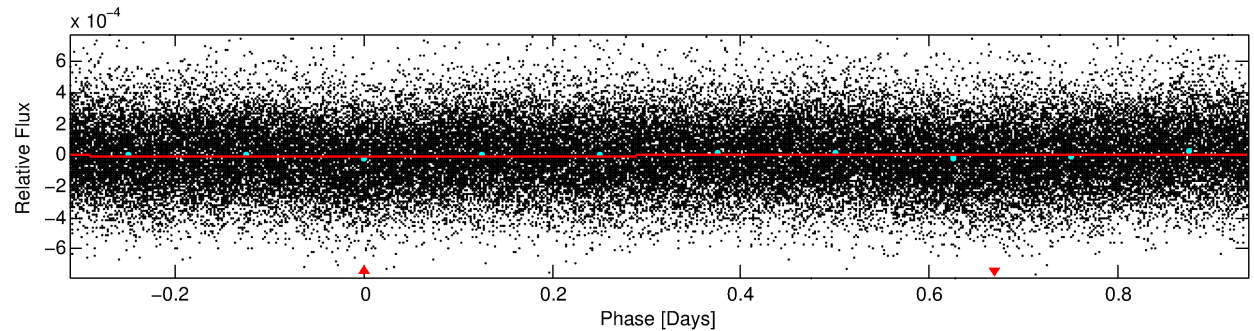
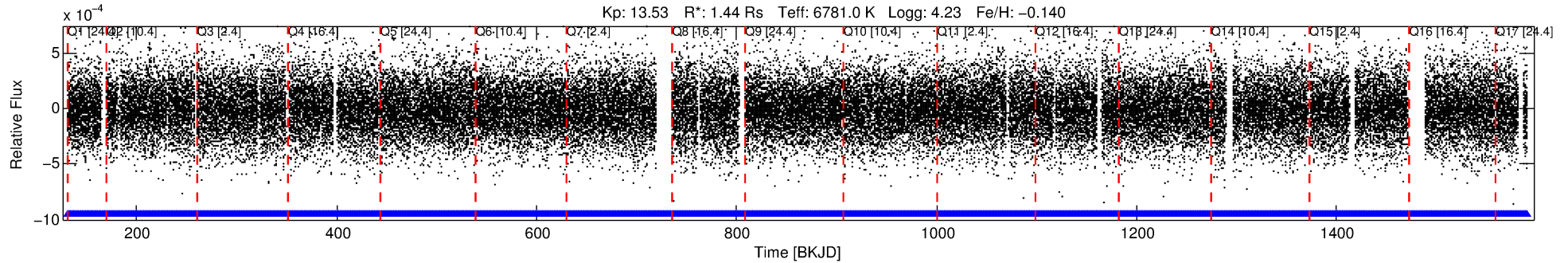
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008263882-01

No Significant Match Found

DV One-Page Summary

KIC: 8263882 Candidate: 1 of 1 Period: 1.251 d



DV Fit Results:

Period = 1.25065 [0.00019] d
Epoch = 131.6455 [0.0707] BKJD
Rp/R* = 0.0016 [0.0050]
a/R* = 1.00 [0.03]
b = 0.39 [38.19]
Seff = 6420.98 [2511.21]
Teq = 2283 [223] K
Rp = 0.26 [0.80] Re
a = 0.0248 [0.0065] AU
Ag = 130.08 [796.88] [0.16σ]
Teffp = 11919 [18227] K [0.53σ]

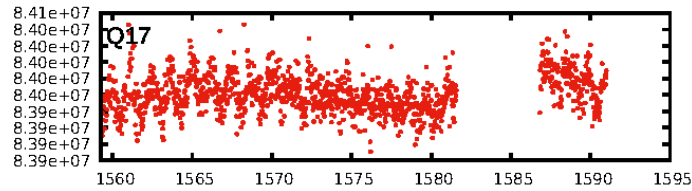
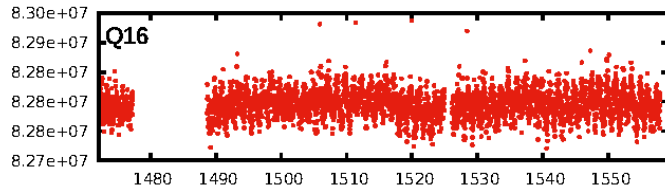
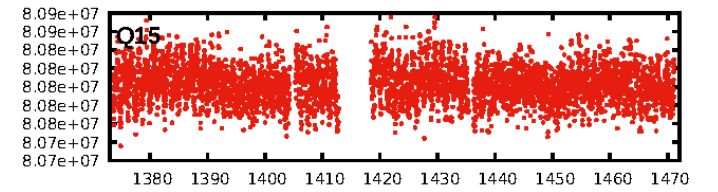
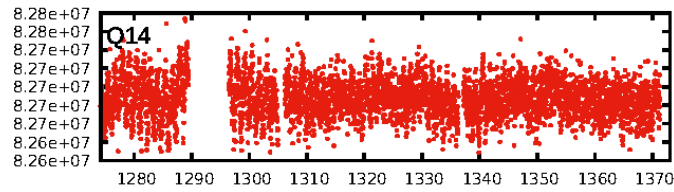
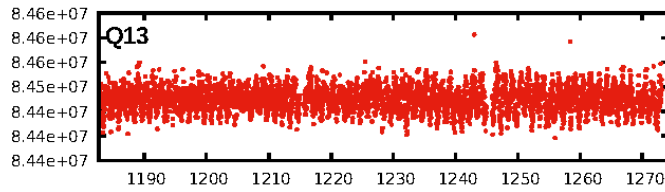
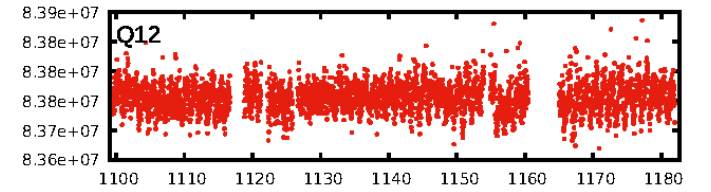
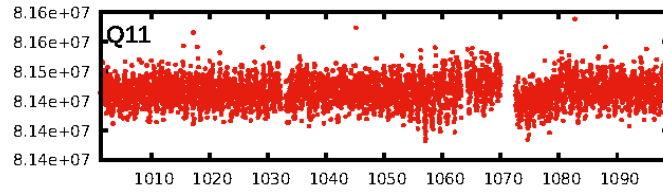
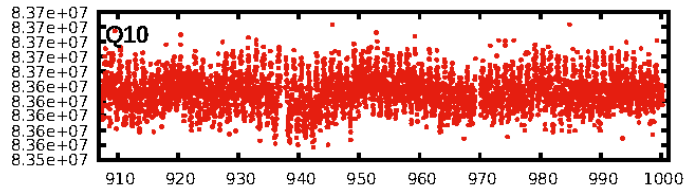
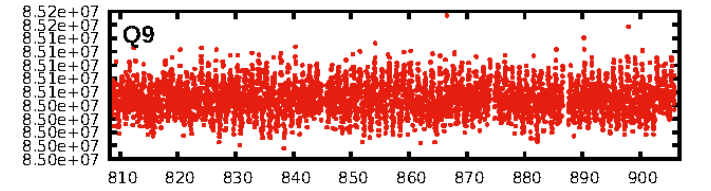
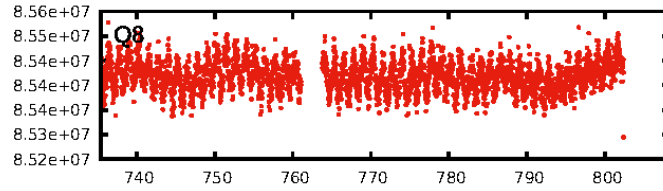
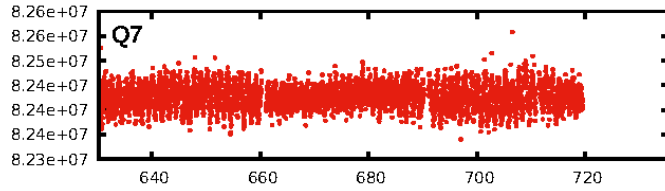
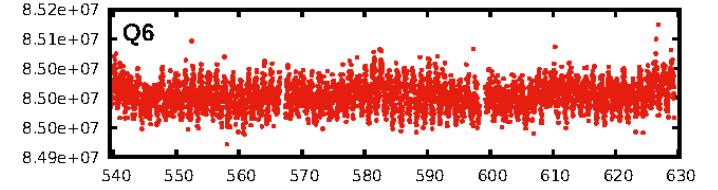
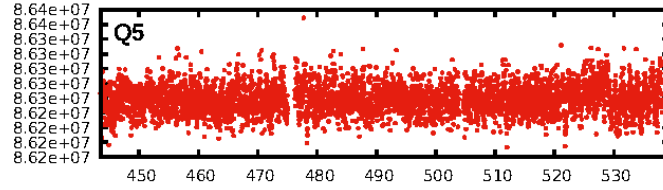
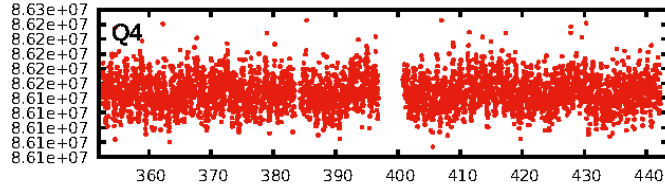
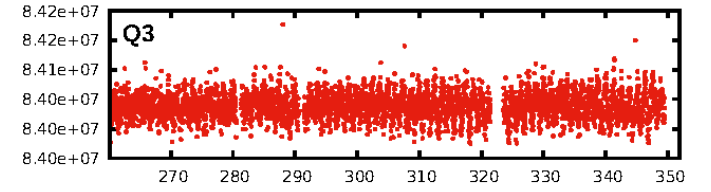
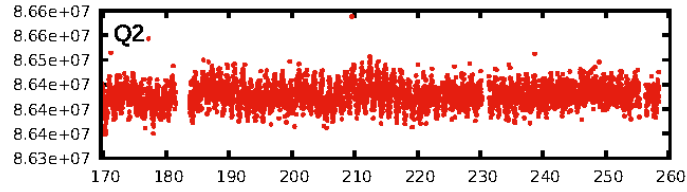
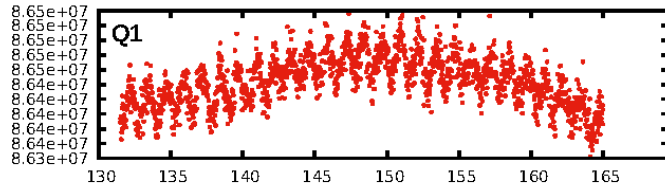
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1044/1044]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.250 arcsec [1.36σ]
KicOffset-rm: 2.154 arcsec [1.53σ]
OotOffset-st: 0/3/1/2 [6]
KicOffset-st: 0/3/1/2 [6]
DiffImageQuality-fgm: 0.33 [2/6]
DiffImageOverlap-fno: 1.00 [17/17]

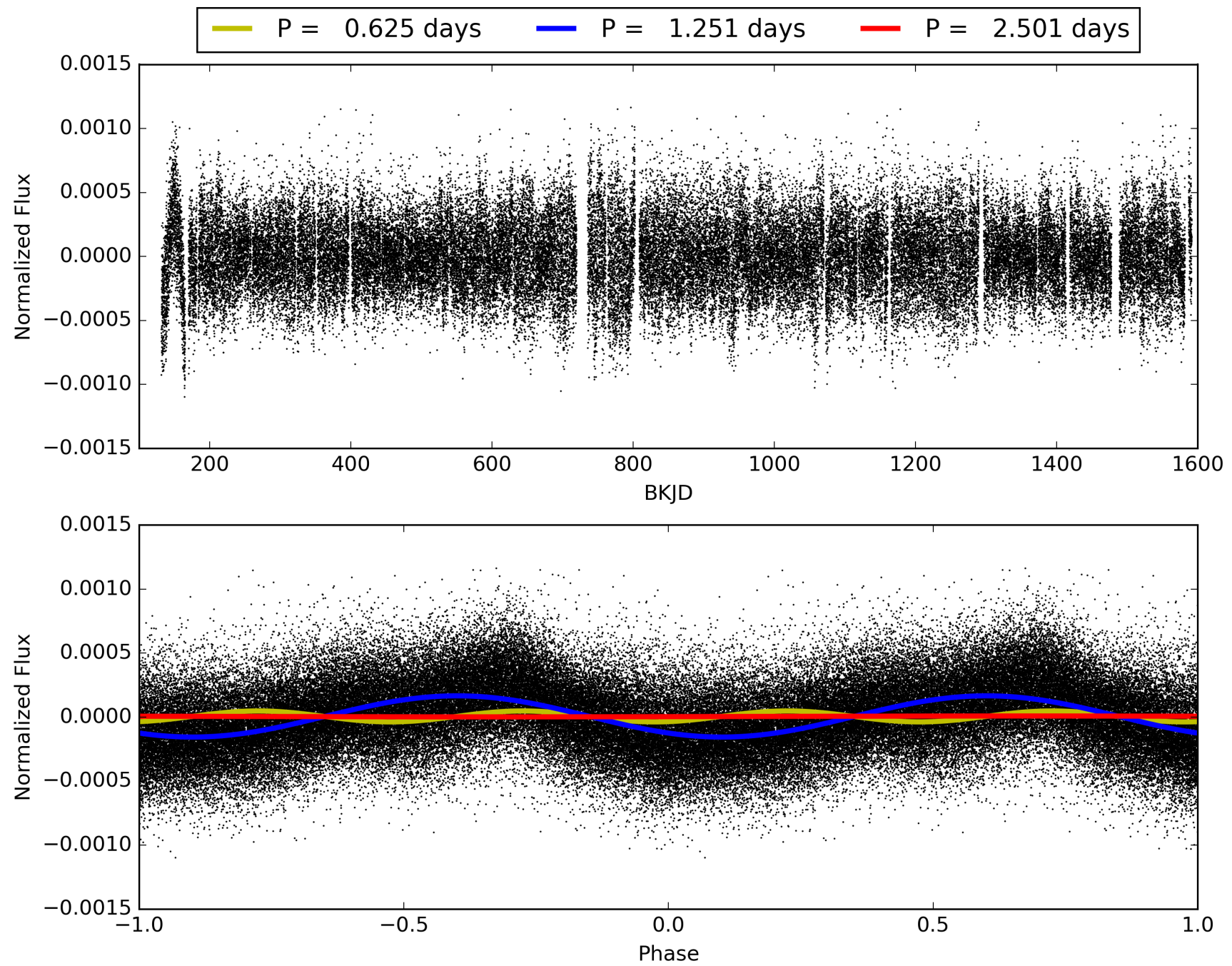
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 21:02:57 Z

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

TCE 008263882-01, PDC Light Curves

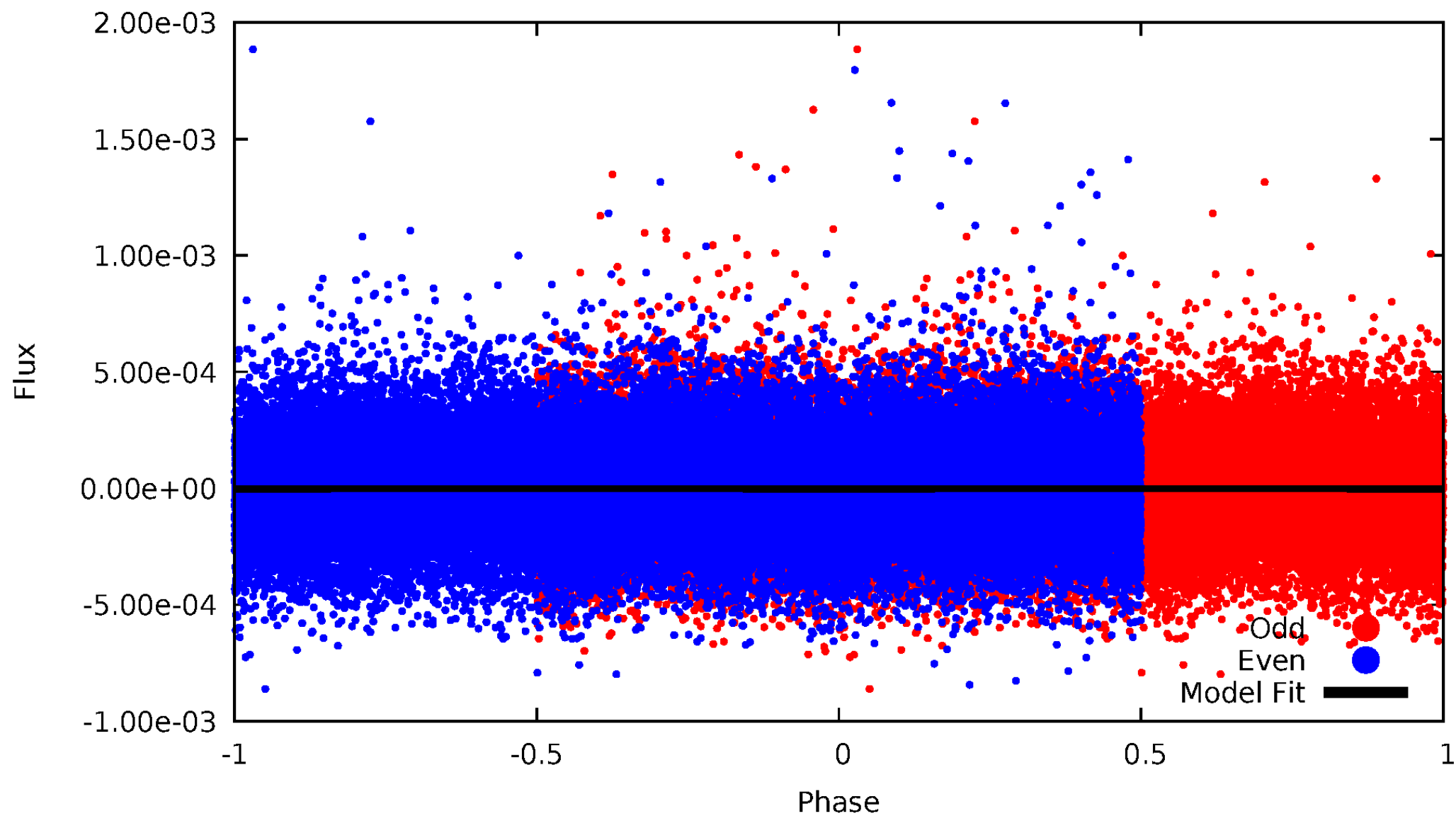


TCE 008263882-01



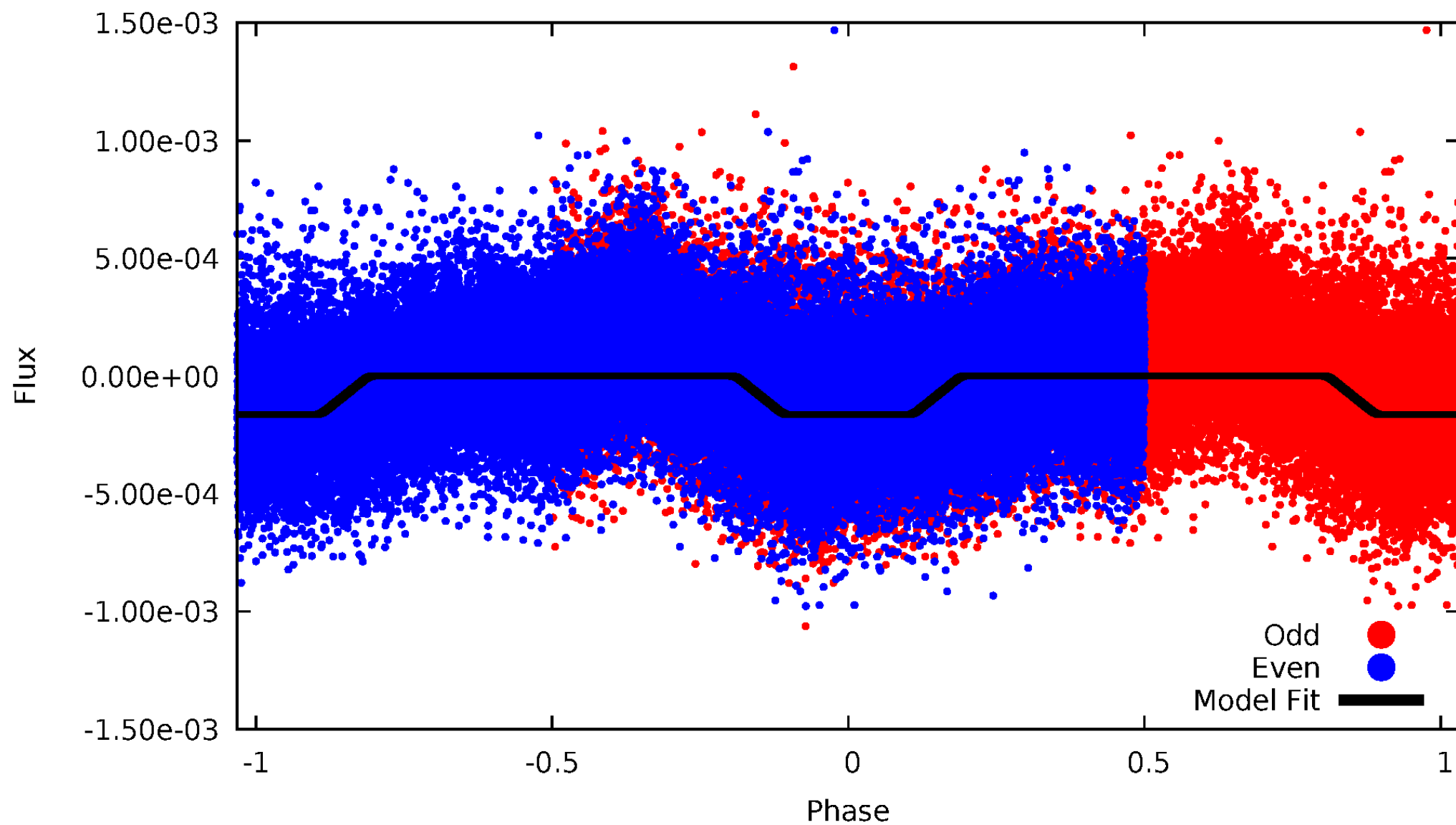
DV Odd/Even

TCE 008263882-01

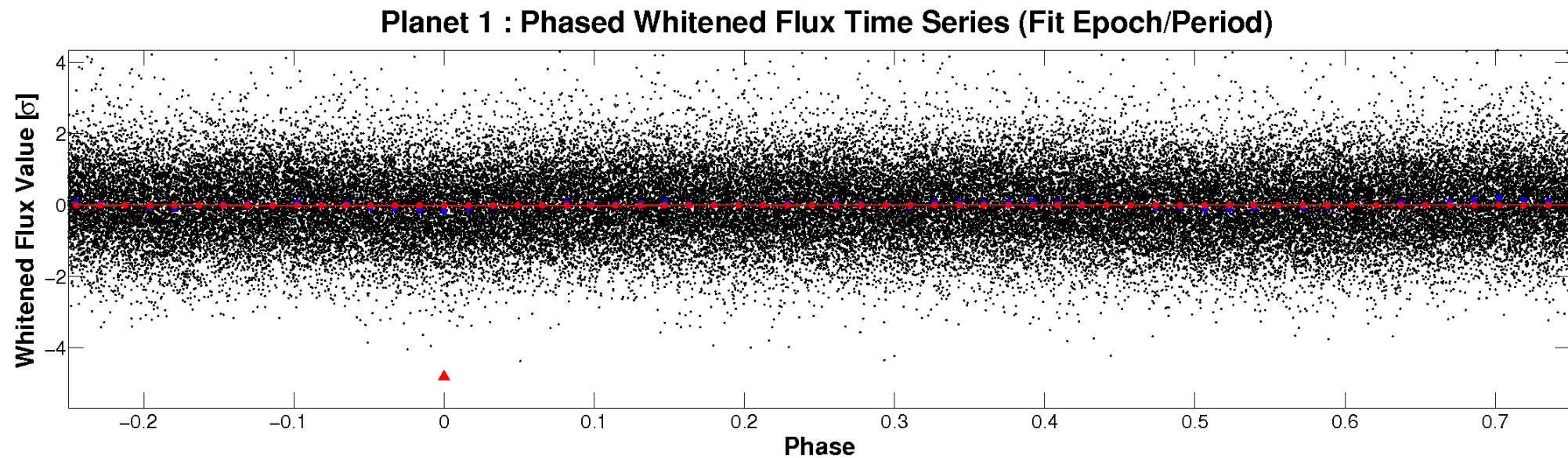
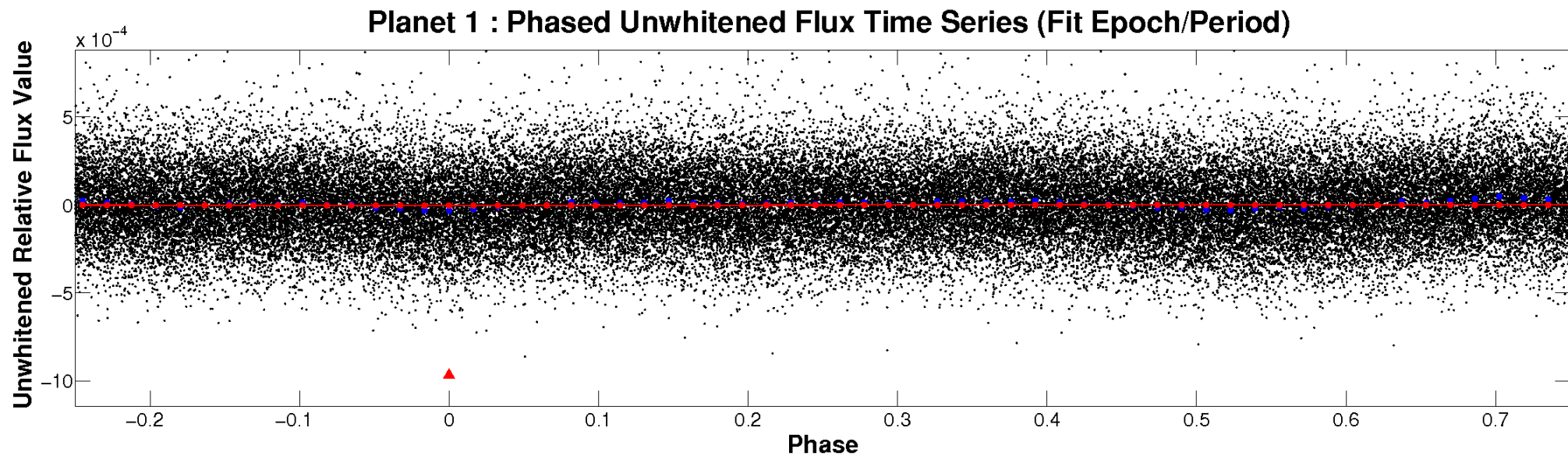


ALT Odd/Even

TCE 008263882-01

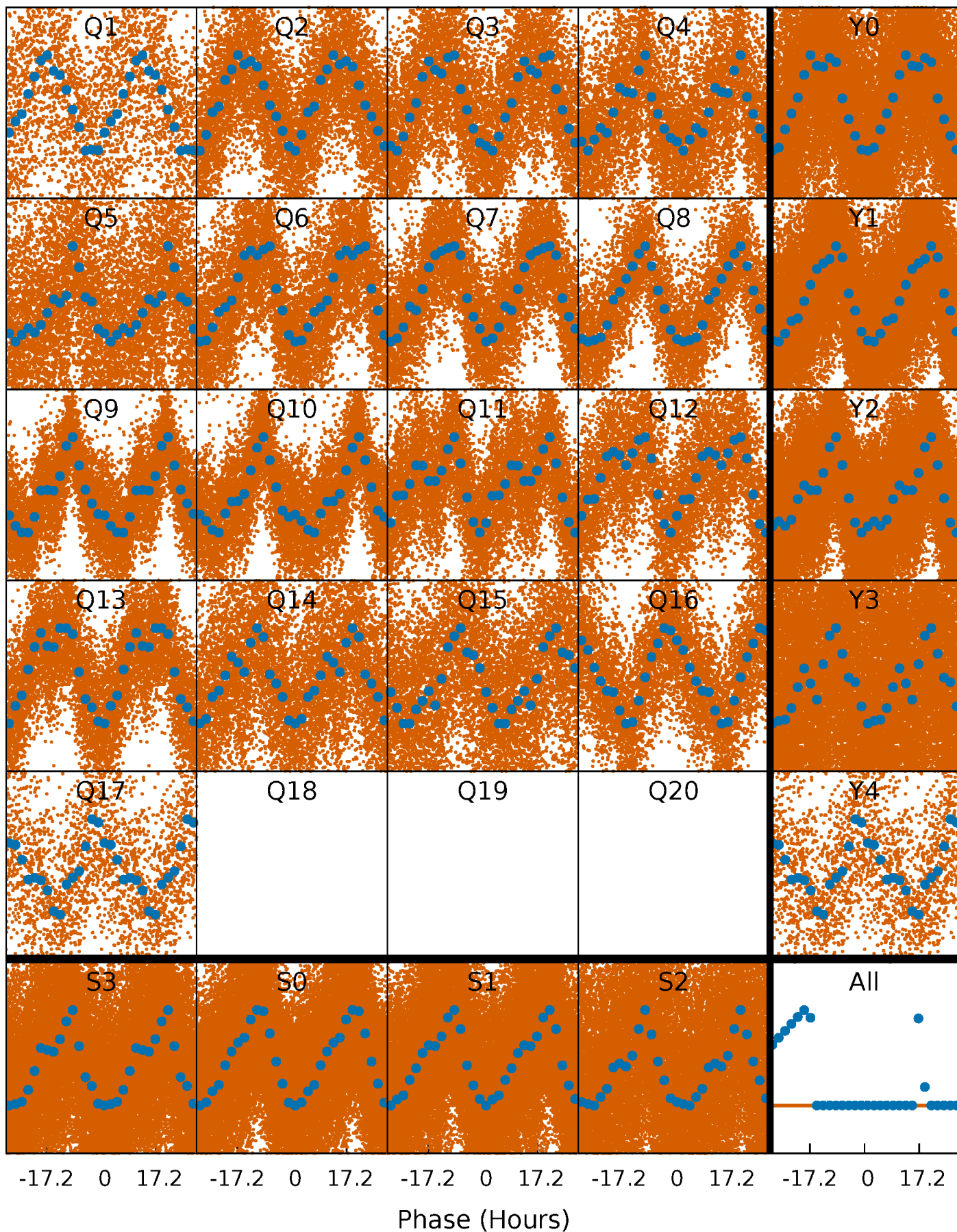


Non-Whitened Vs. Whitened Light Curve



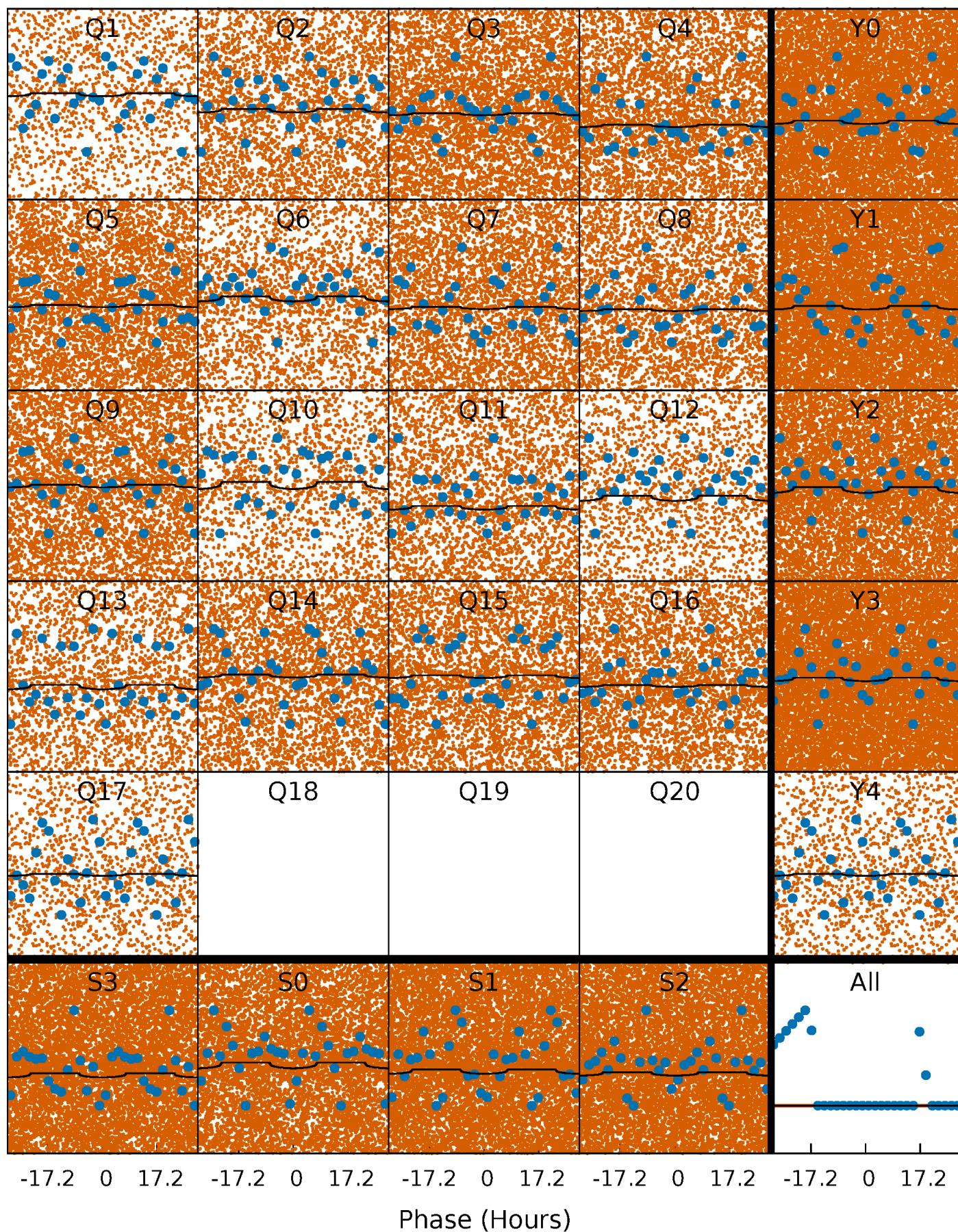
PDC Quarter-Phased Transit Curves

TCE 008263882-01 P= 1.250647 Days $T_0=131.645516$ (BKJD)



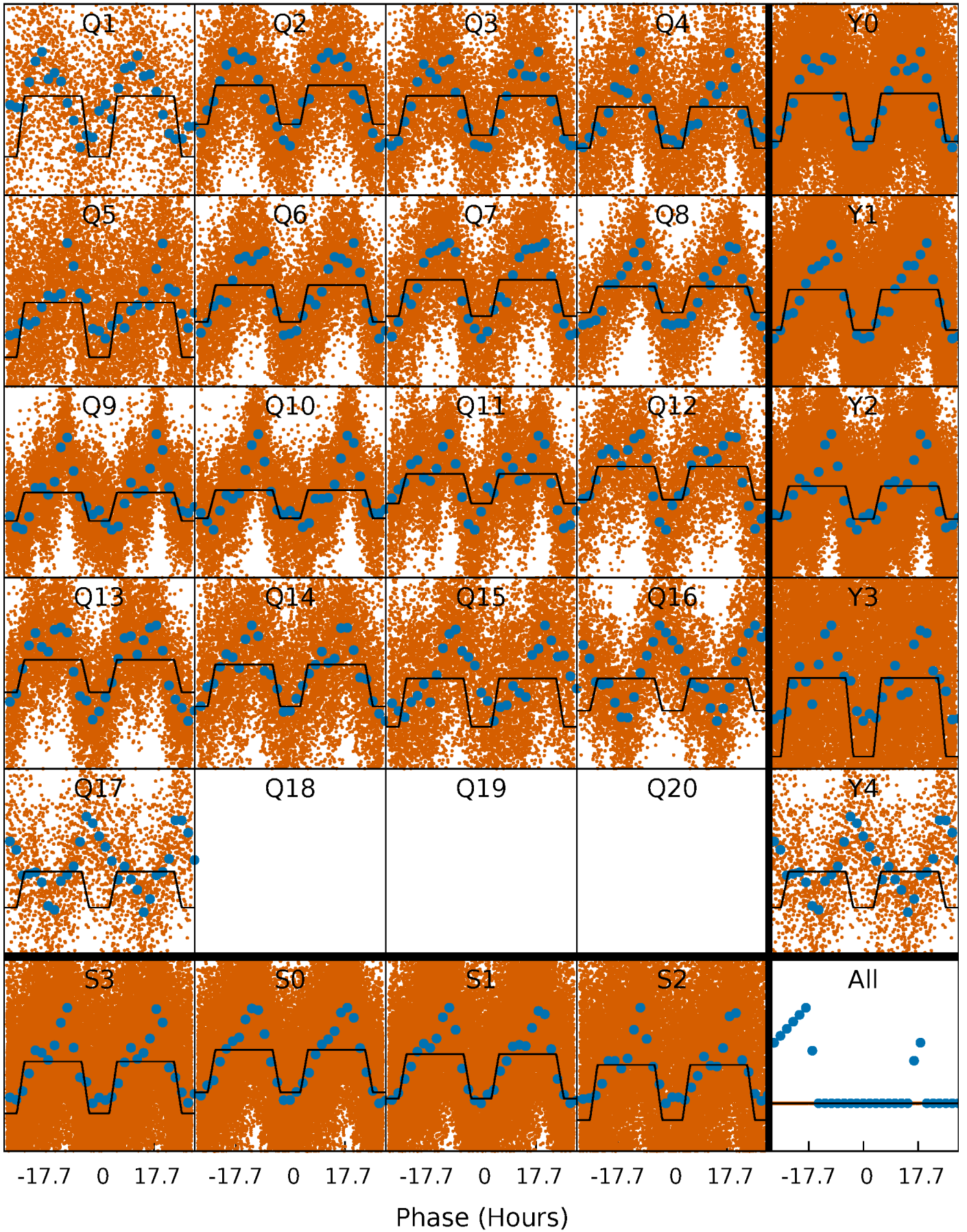
DV Quarter-Phased Transit Curves

TCE 008263882-01 P= 1.250647 Days $T_0=131.645516$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

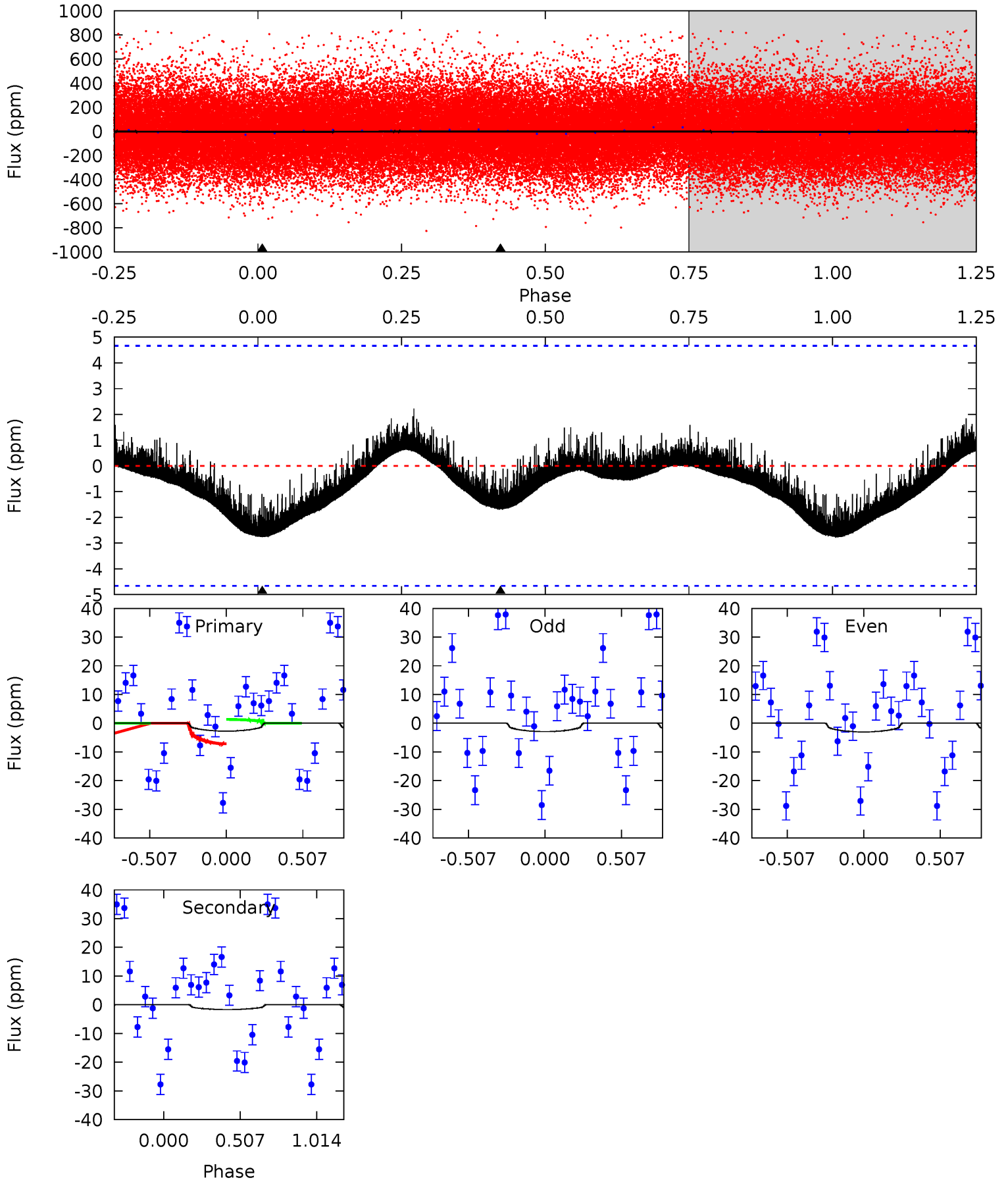
TCE 008263882-01 P= 1.250651 Days $T_0=131.703931$ (BKJD)



DV Model-Shift Uniqueness Test

008263882-01, P = 1.250647 Days, E = 130.394869 Days

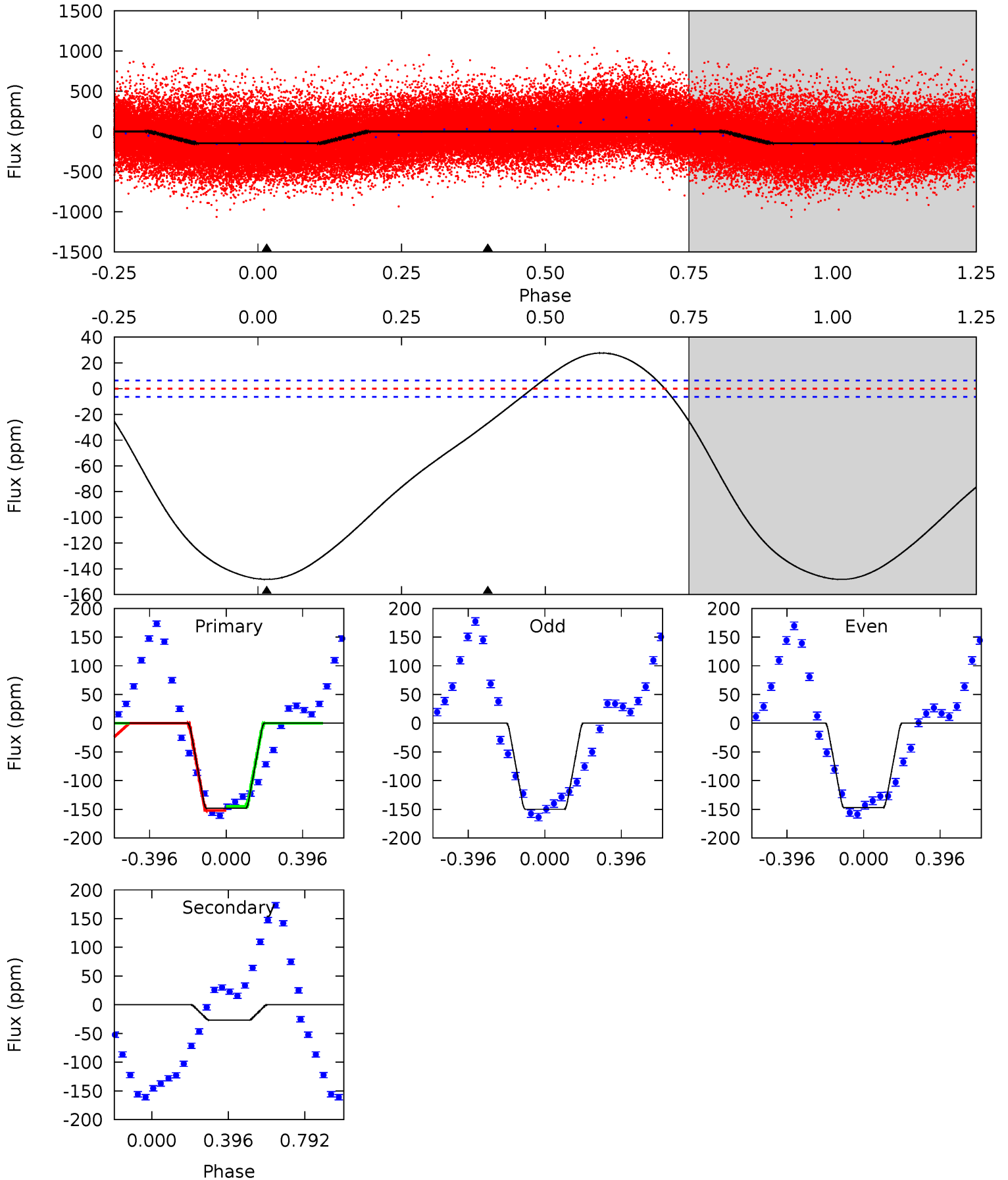
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.49	1.51	0	0	4.21	0.66	0.19	2.49	2.49	1.51	1.51	0.05	-8.23	0.45	2.67



Alt Model-Shift Uniqueness Test

008263882-01, P = 1.250651 Days, E = 130.453280 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
99.6	18.1	0	0	4.27	0.85	9.86	99.6	99.6	18.1	18.1	0.92	0.94	0.16	2.78



Stellar Parameters For KIC 008263882

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6781^{+189}_{-259}	$4.233^{+0.124}_{-0.186}$	$-0.140^{+0.250}_{-0.350}$	$1.444^{+0.475}_{-0.256}$	$1.309^{+0.204}_{-0.204}$	$0.613^{+0.360}_{-0.304}$
	+3%/-4%	+3%/-4%	+179%/-250%	+33%/-18%	+16%/-16%	+59%/-50%
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 008263882-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 1	$0.67^{+0.66}_{-0.47}$	3202^{+250}_{-197}	3680^{+3049}_{-6567}	$1.017^{+12.926}_{-0.855}$
Alt.	-27 ± 1	$2.06^{+0.87}_{-0.80}$	3203^{+236}_{-206}	4295^{+1020}_{-577}	$2.121^{+3.409}_{-1.070}$

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 $A_{obs} \gg 1.0$

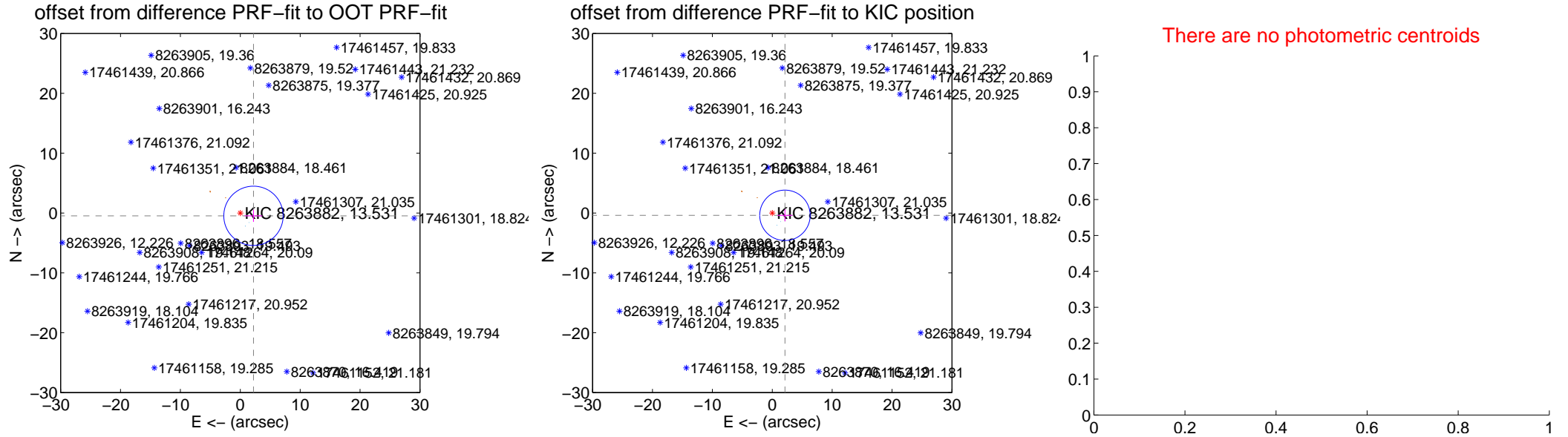
DV Centroid Data

Supplemental centroid analysis for 008263882-01. Kepler magnitude: 13.53. Transit SNR 1.66

There are 2 quarters with good PRF difference image offsets

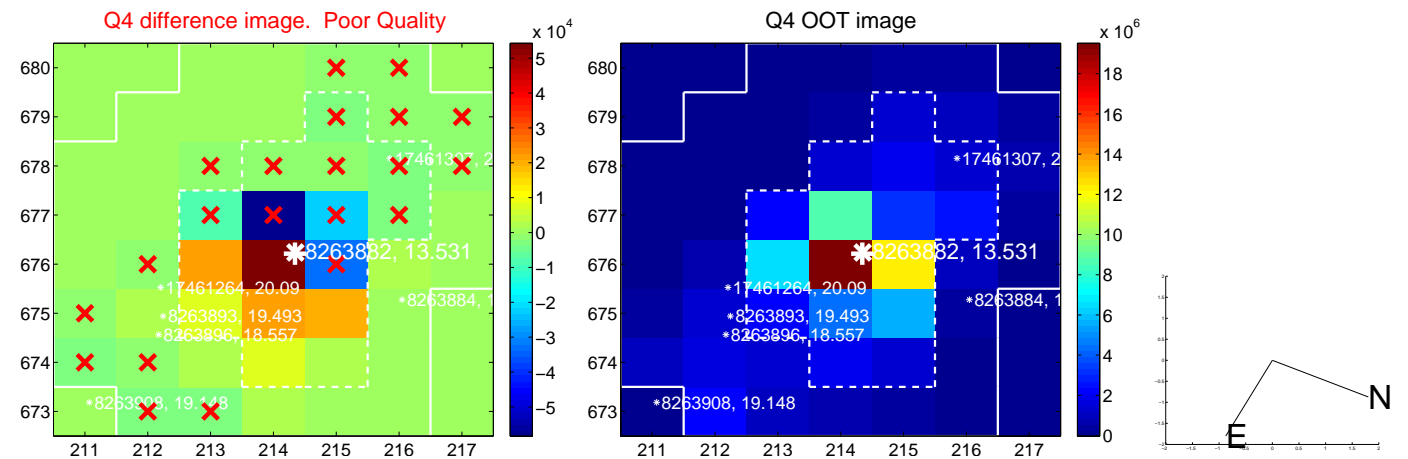
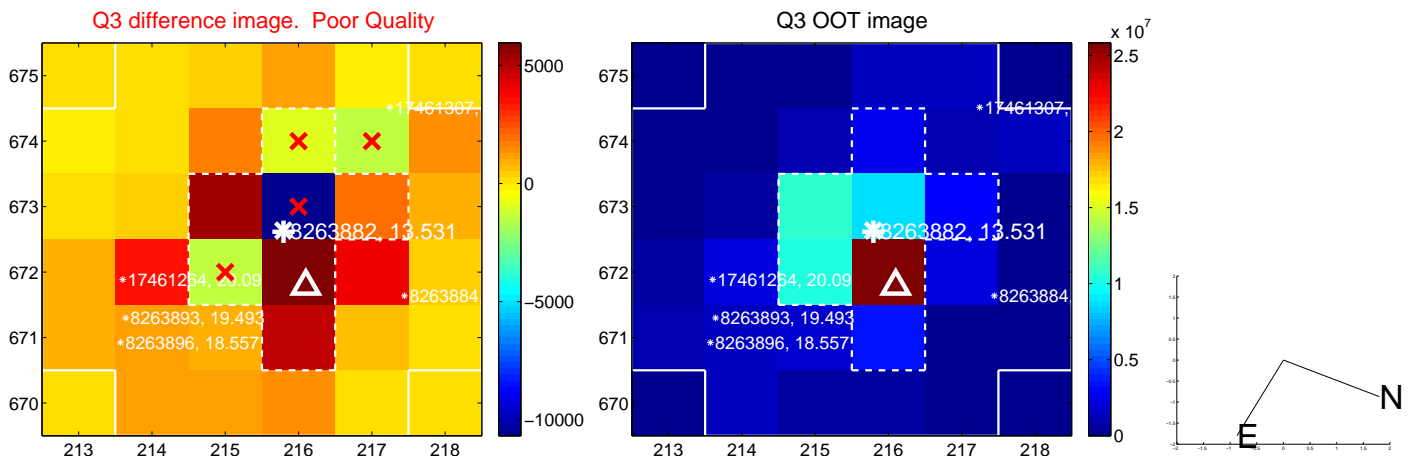
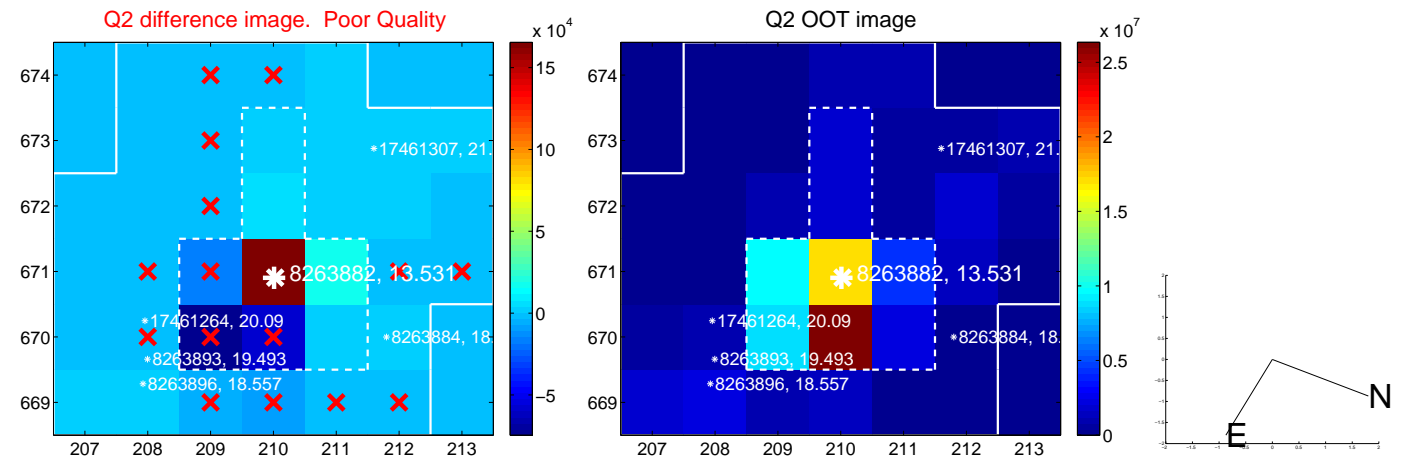
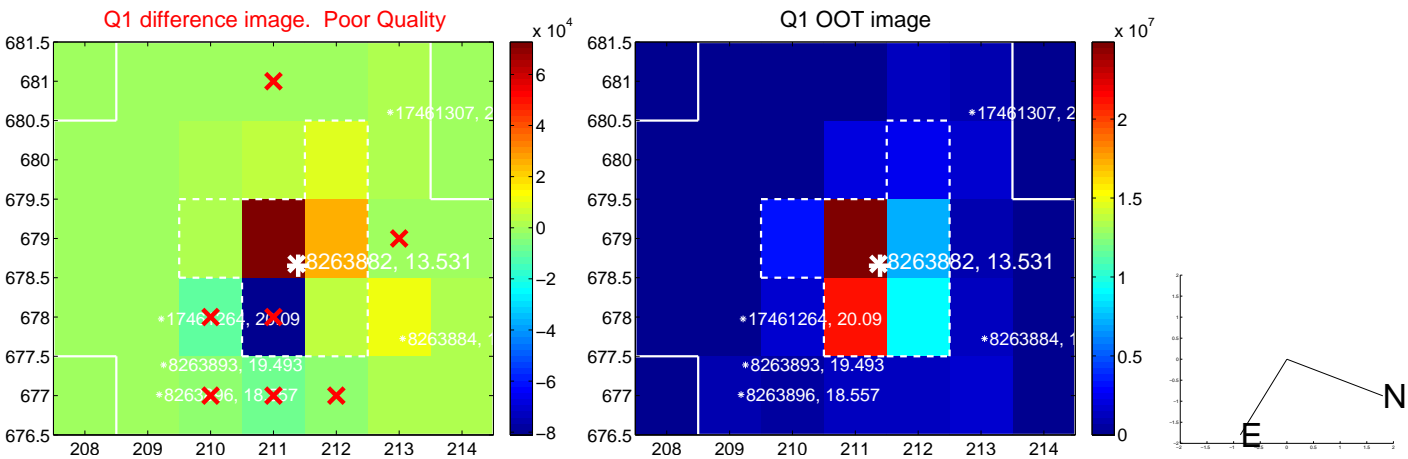
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.250 ± 1.651	1.36	-2.201 ± 1.482	-0.470 ± 1.021
PRF-fit source offset from KIC position	2.154 ± 1.404	1.53	-2.119 ± 1.255	-0.386 ± 1.001
photometric centroid source offset	—	—	—	—

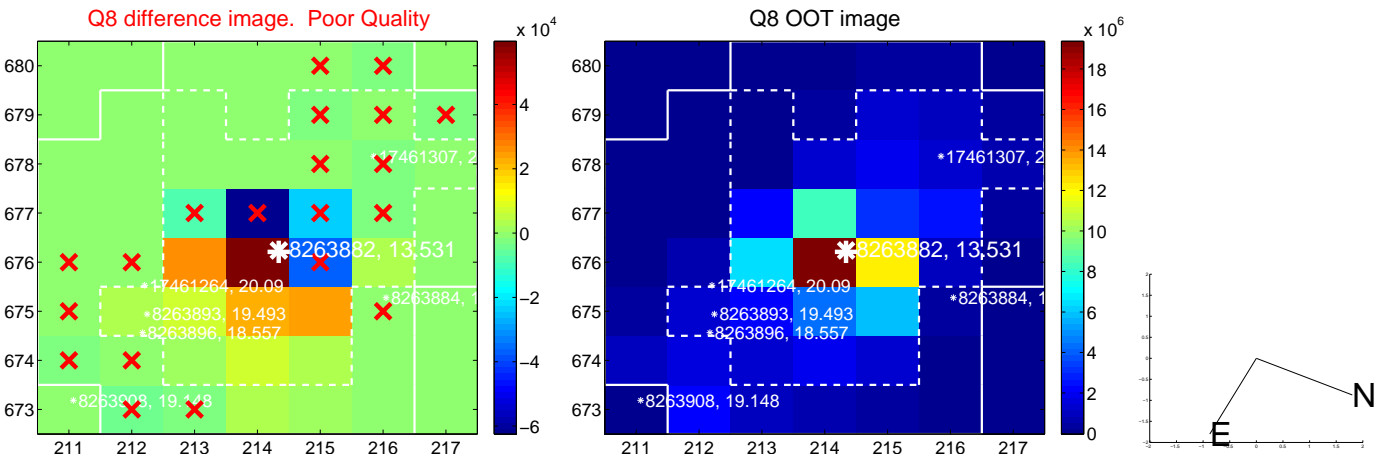
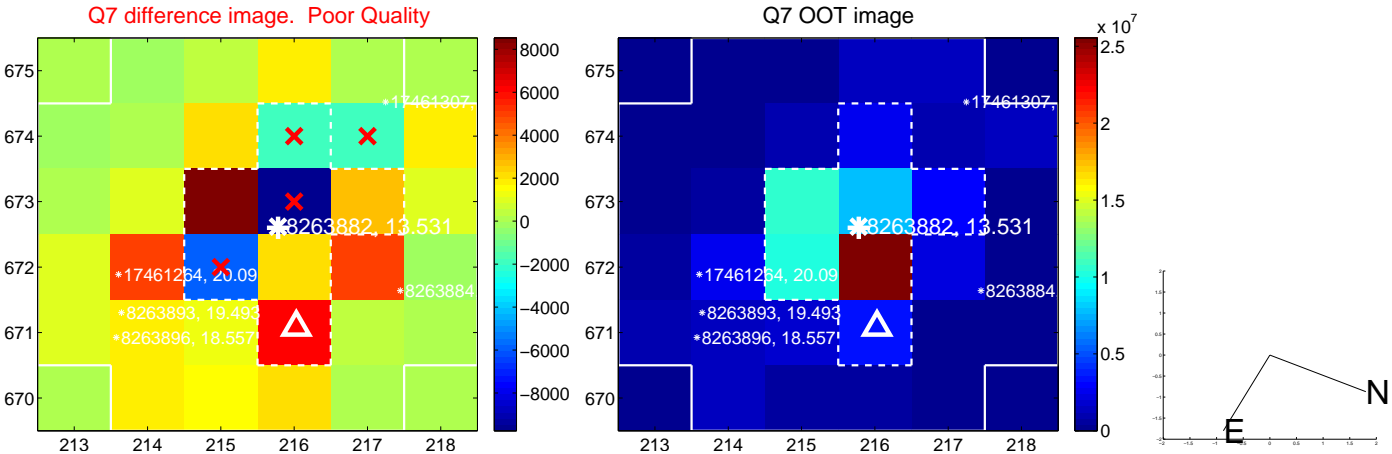
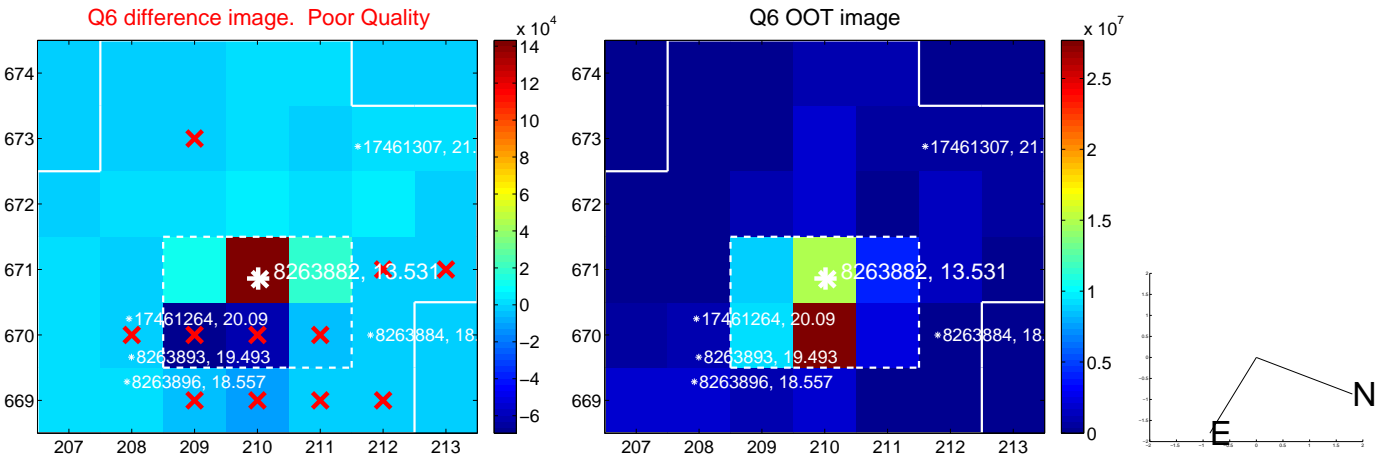
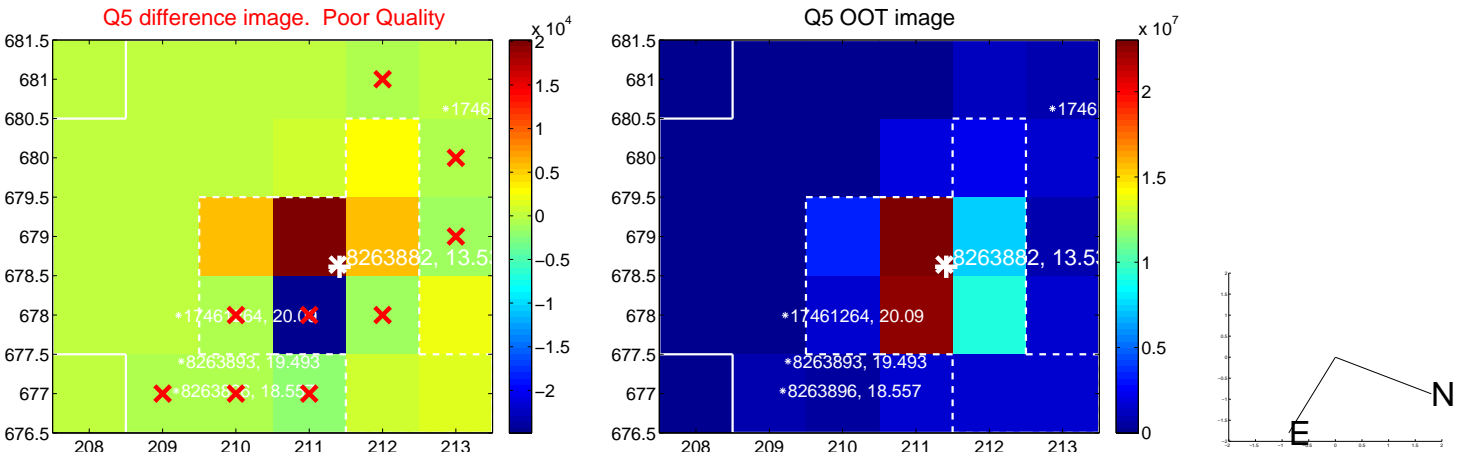


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

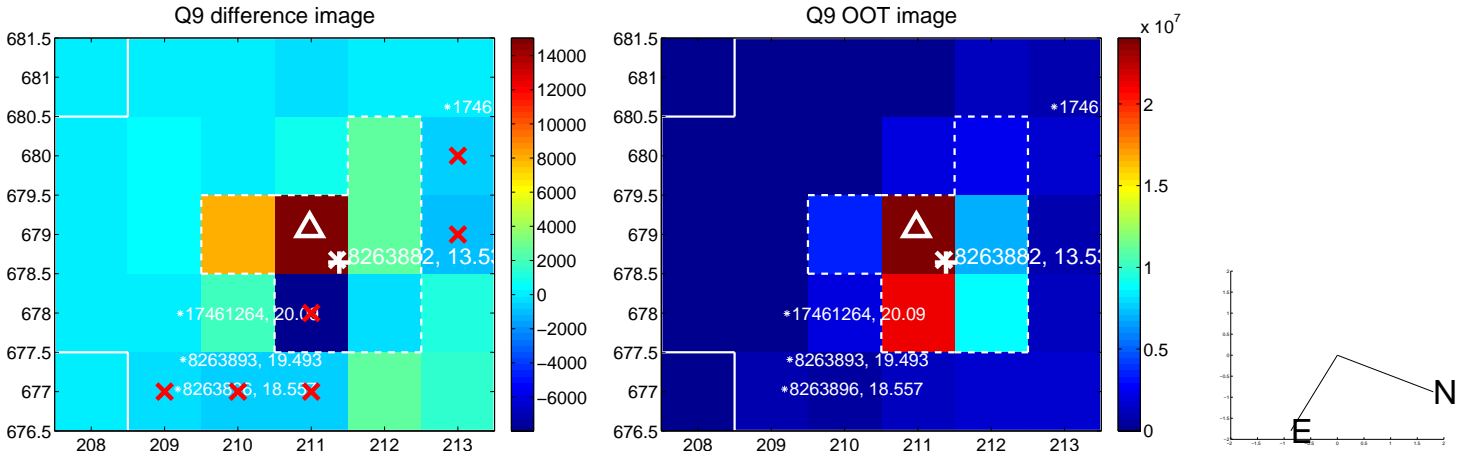
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



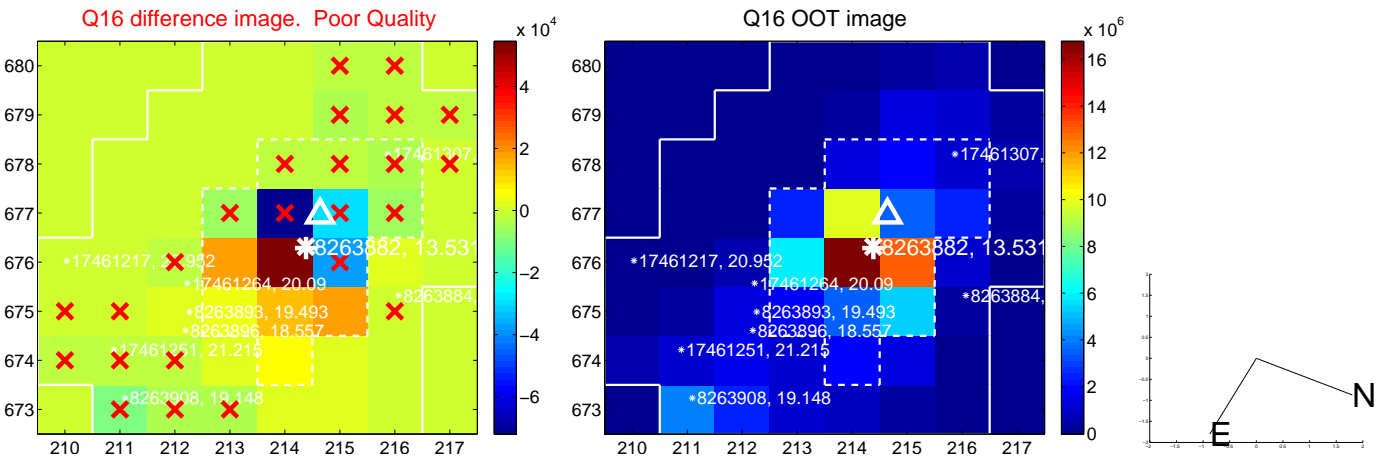
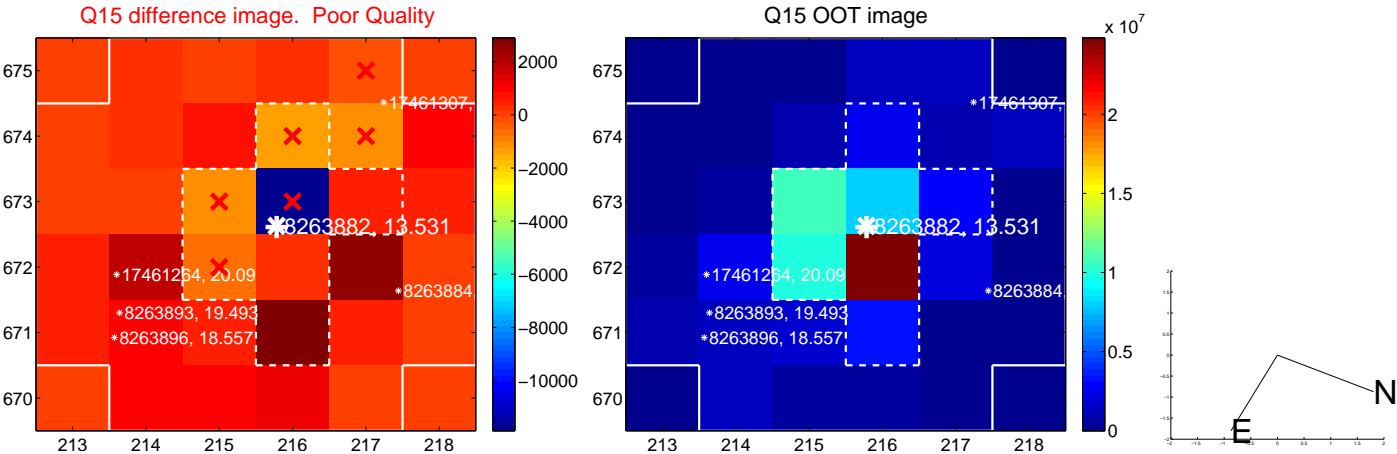
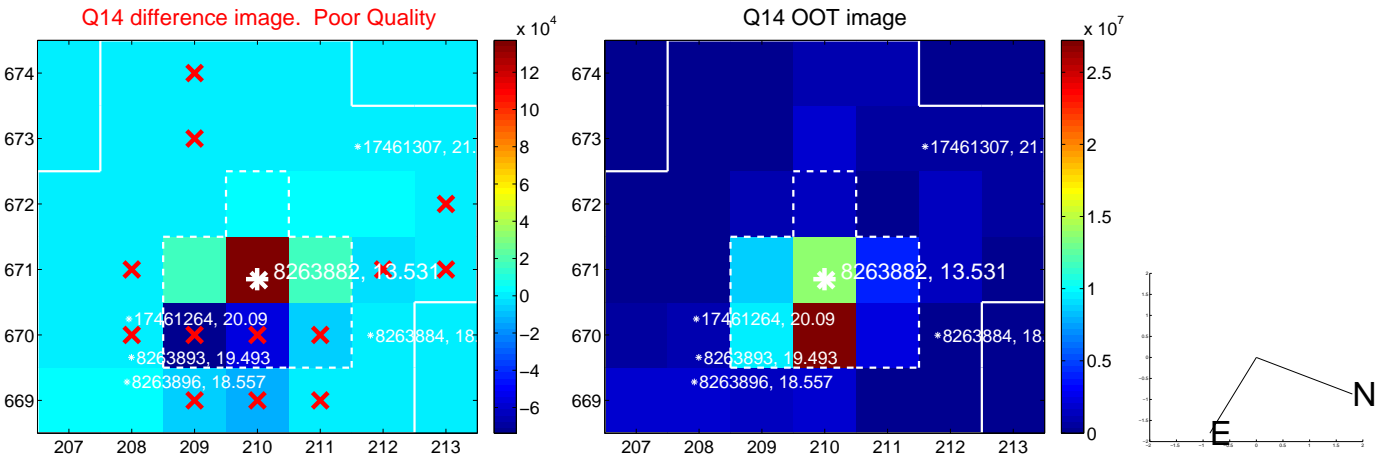
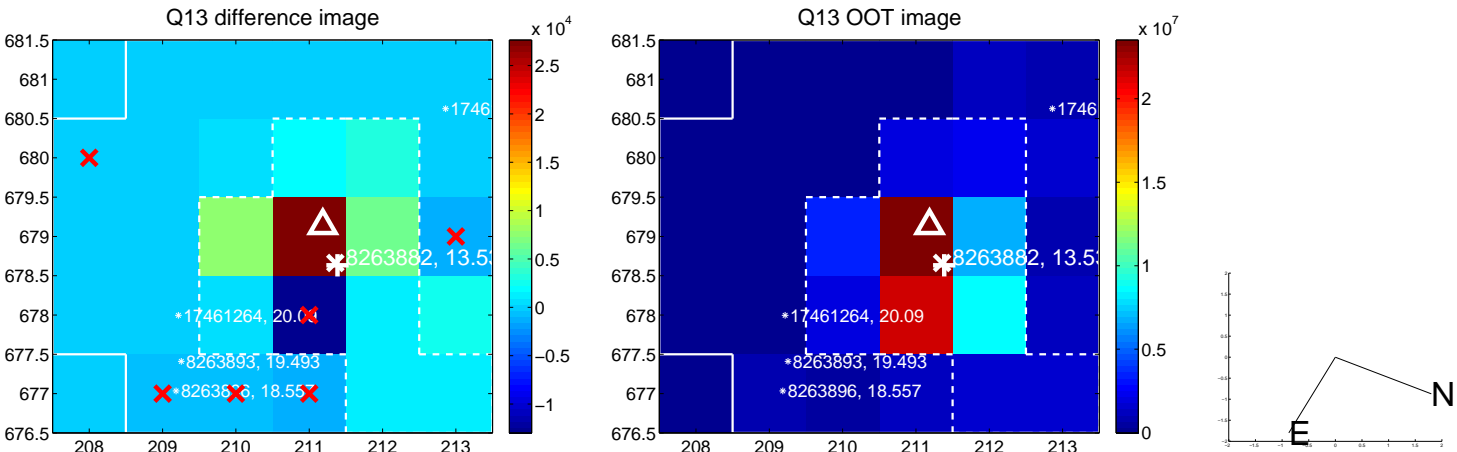
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



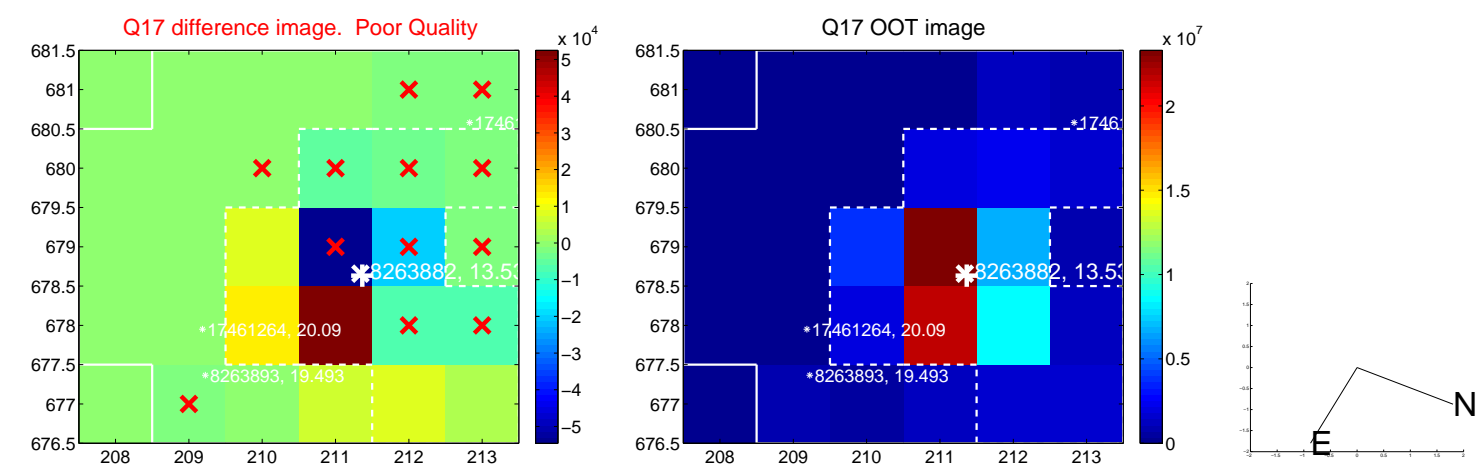
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

Declination

