

KIC 005083252

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})
005083252-01	OBS	6512.01	2.501027	131.548455	543.1	9.000	7.6	-1.0	1.05	6305	2.46	1153.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005083252-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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 005083252-01

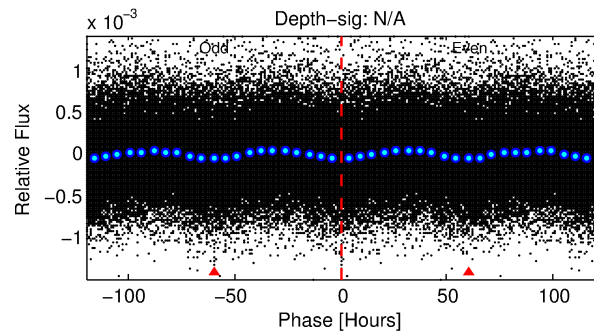
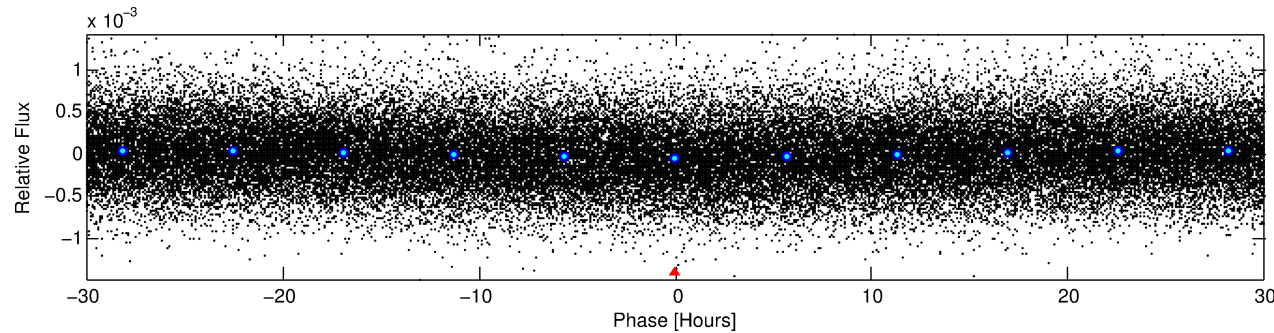
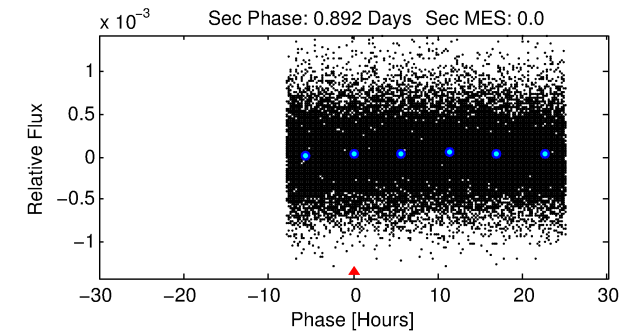
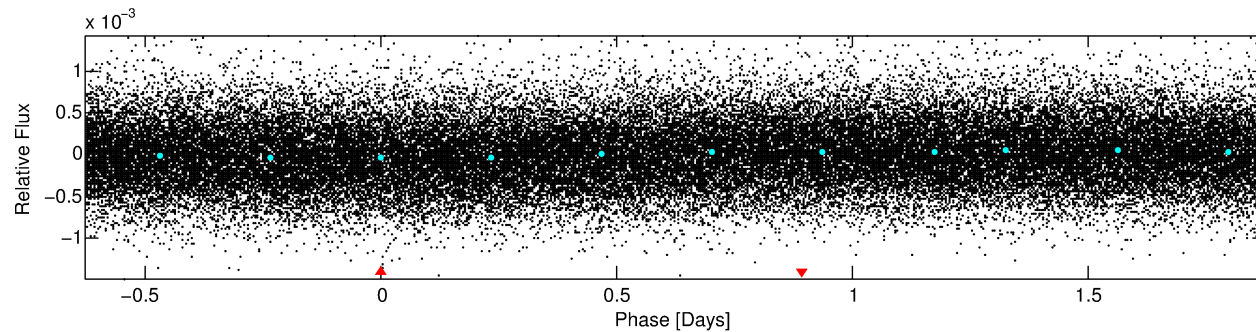
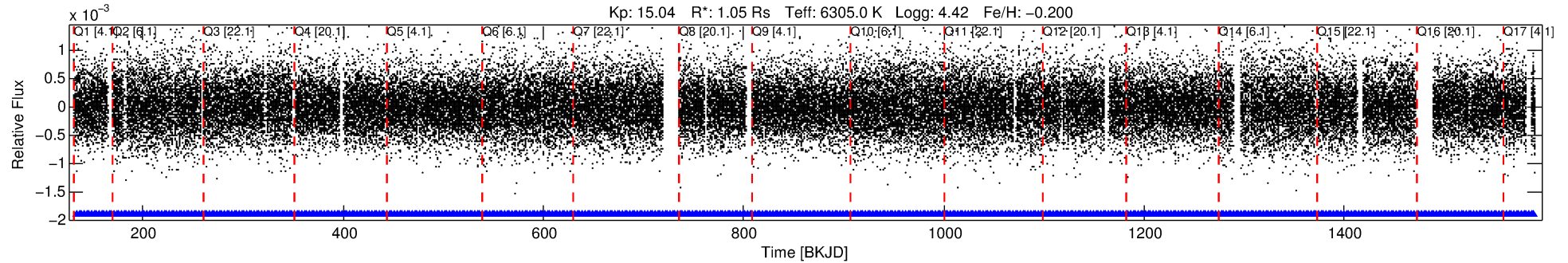
No Significant Match Found

DV One-Page Summary

KIC: 5083252 Candidate: 1 of 1 Period: 2.501 d

KOI: K06512 Corr: No Ephemeris Match

Kp: 15.04 R*: 1.05 Rs Teff: 6305.0 K Logg: 4.42 Fe/H: -0.200



TPS TCE Results:

Period = 2.50103 d
Epoch = 131.5485 BKJD

DV fit results are unavailable

DV Diagnostic Results:

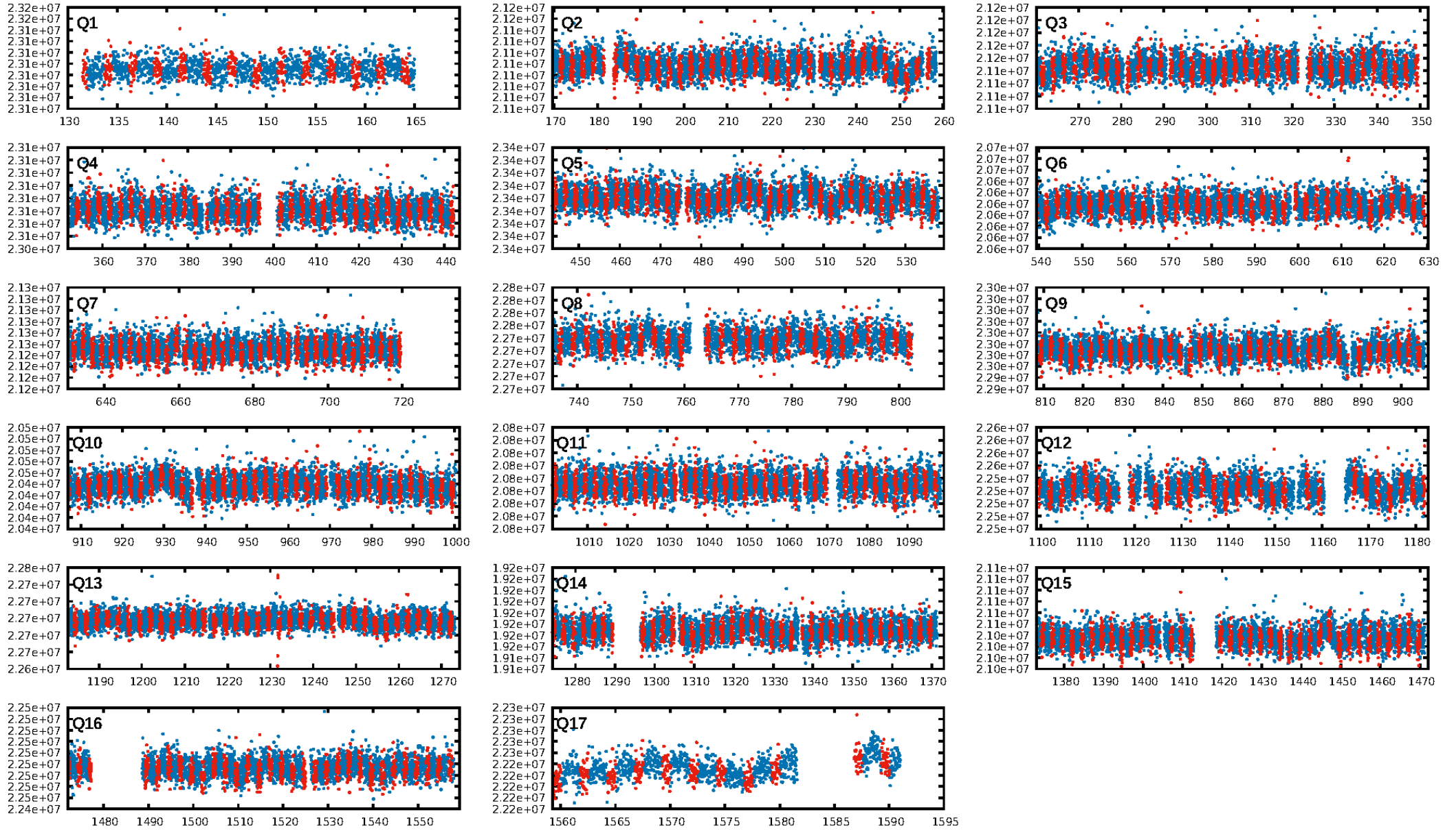
ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.32e-15
RollingBand-fgt: 1.00 [529/529]
GhostDiagnostic-chr: 2.765

Centroid-sig: 11.0%
Centroid-so: 1.413 arcsec [1.69σ]
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]

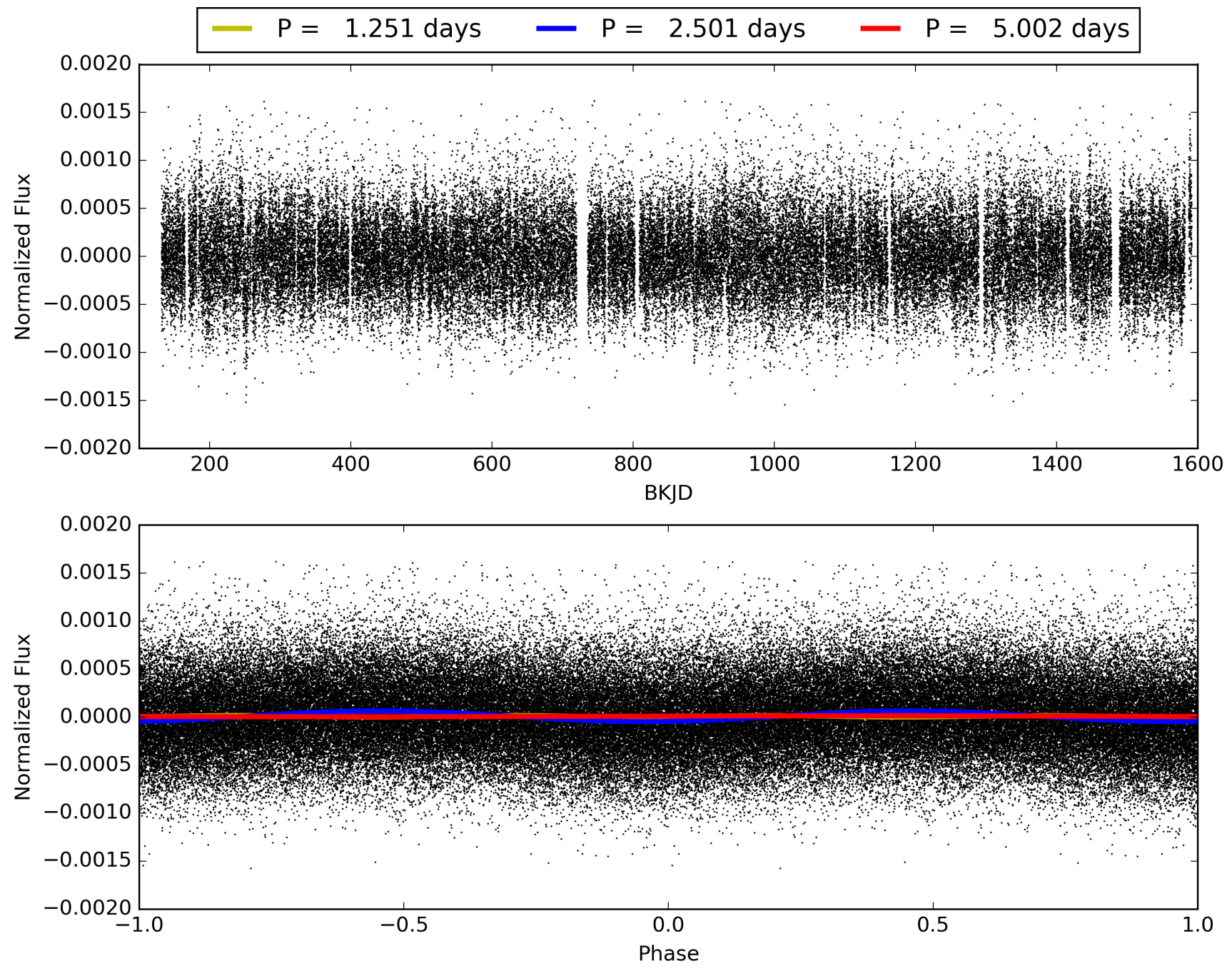
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 20:46:07 Z

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

TCE 005083252-01, PDC Light Curves

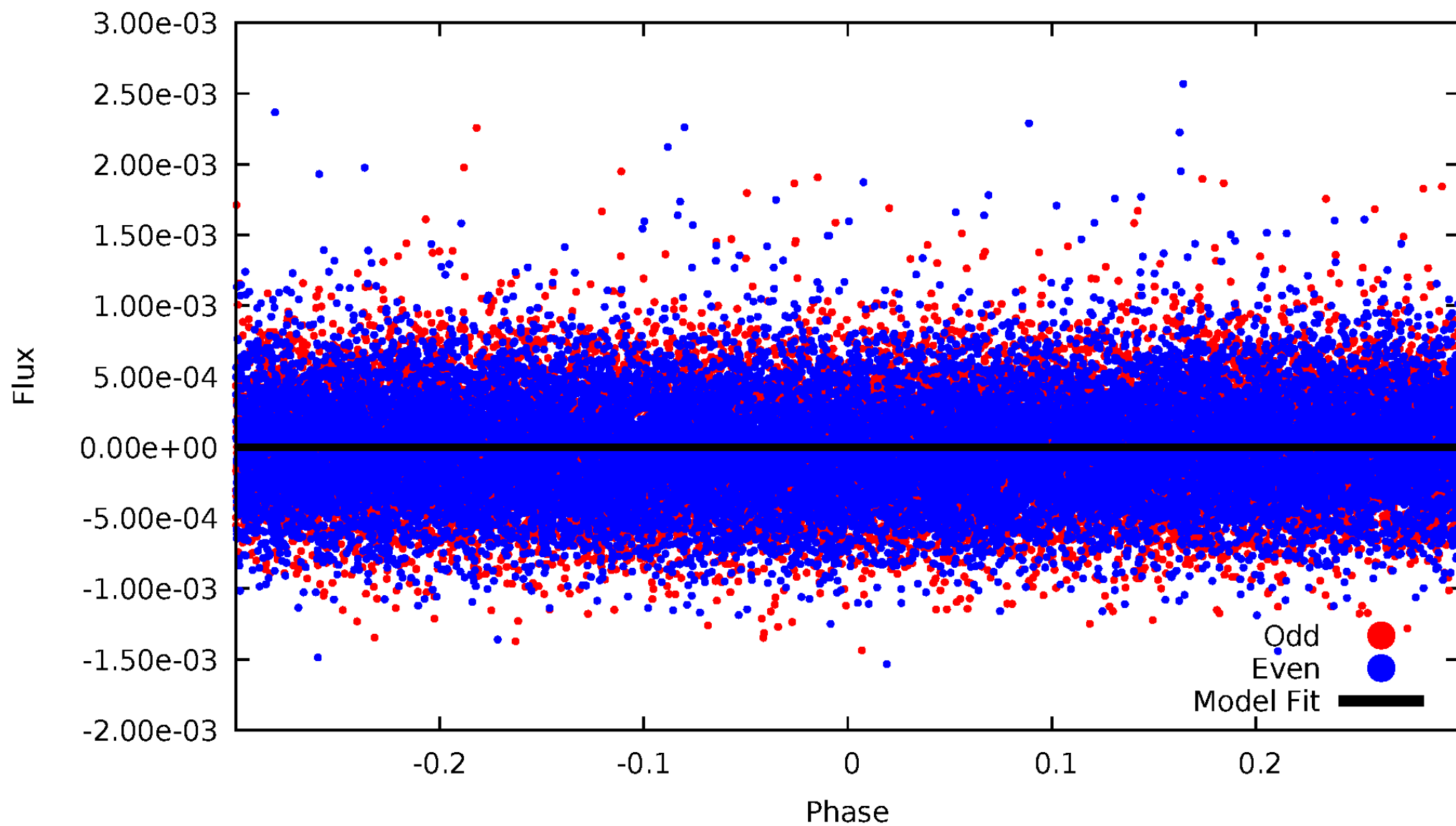


TCE 005083252-01



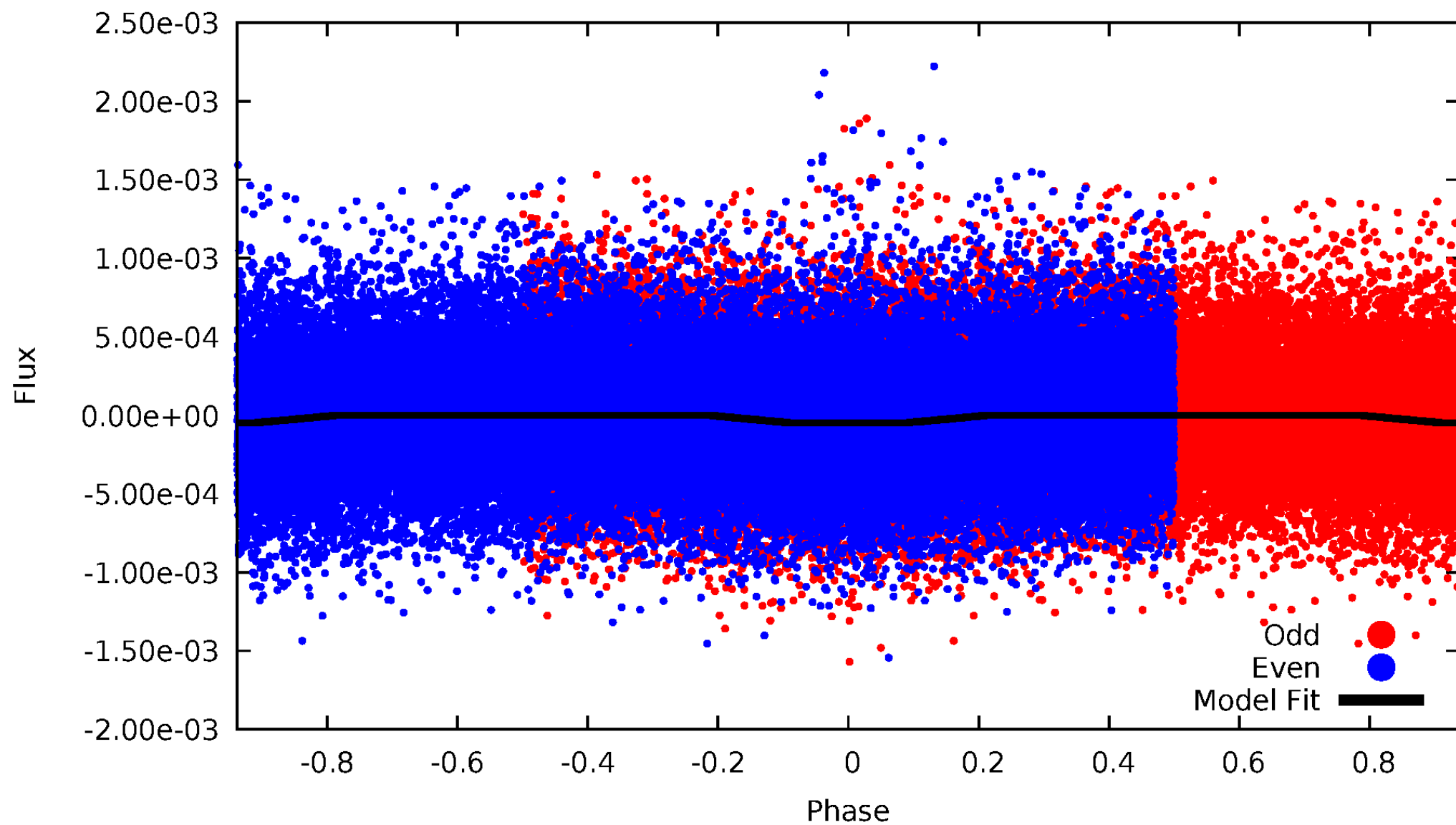
DV Odd/Even

TCE 005083252-01

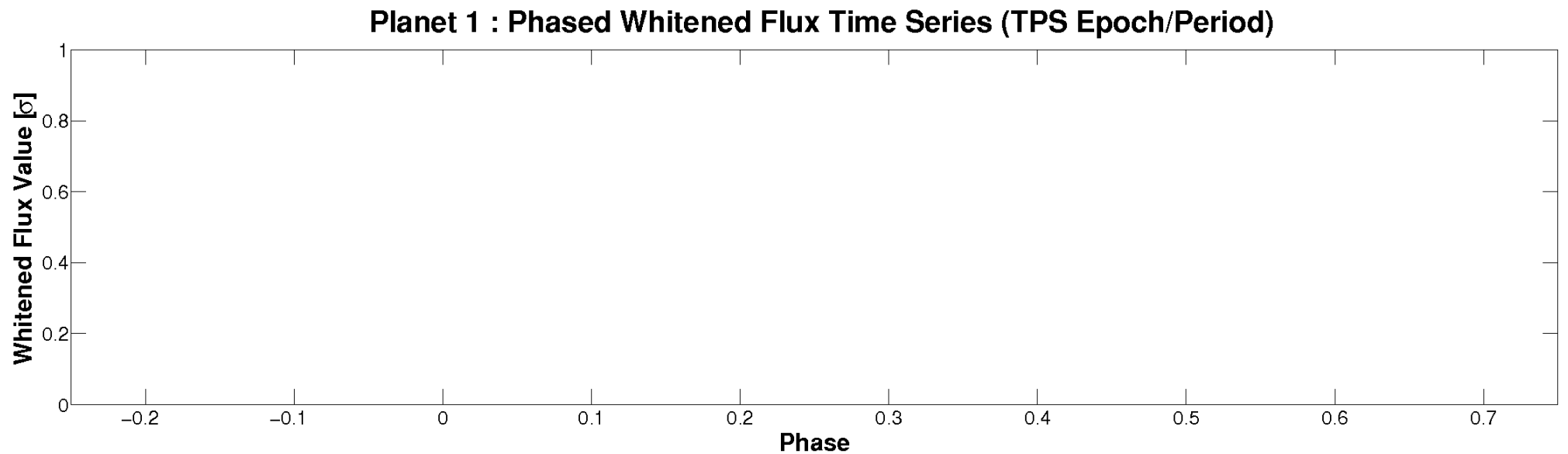
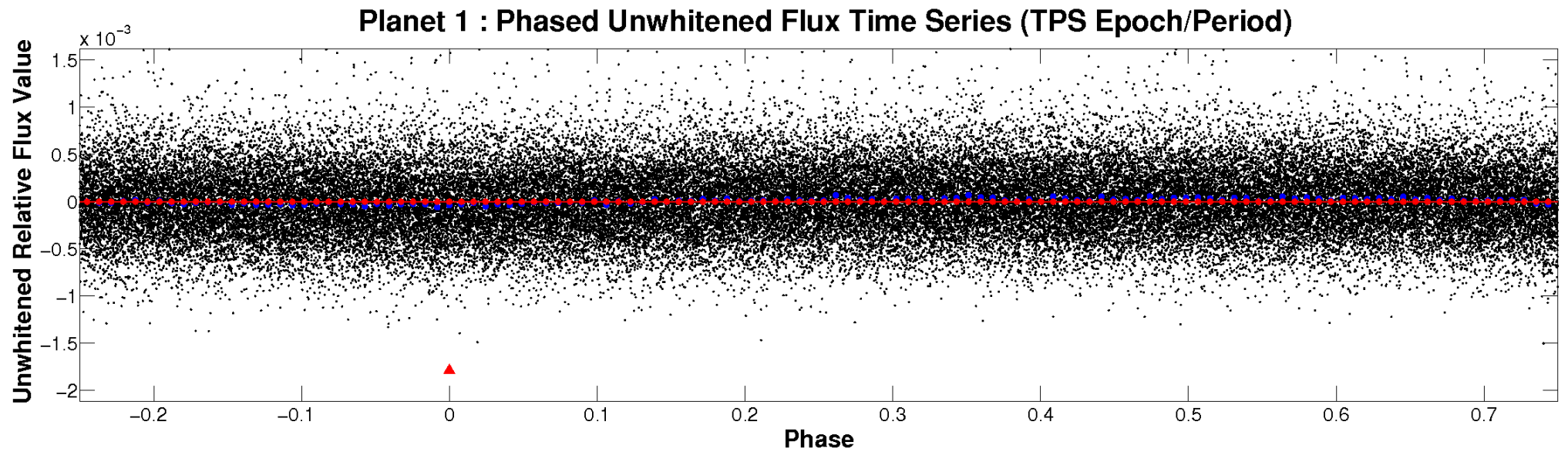


ALT Odd/Even

TCE 005083252-01

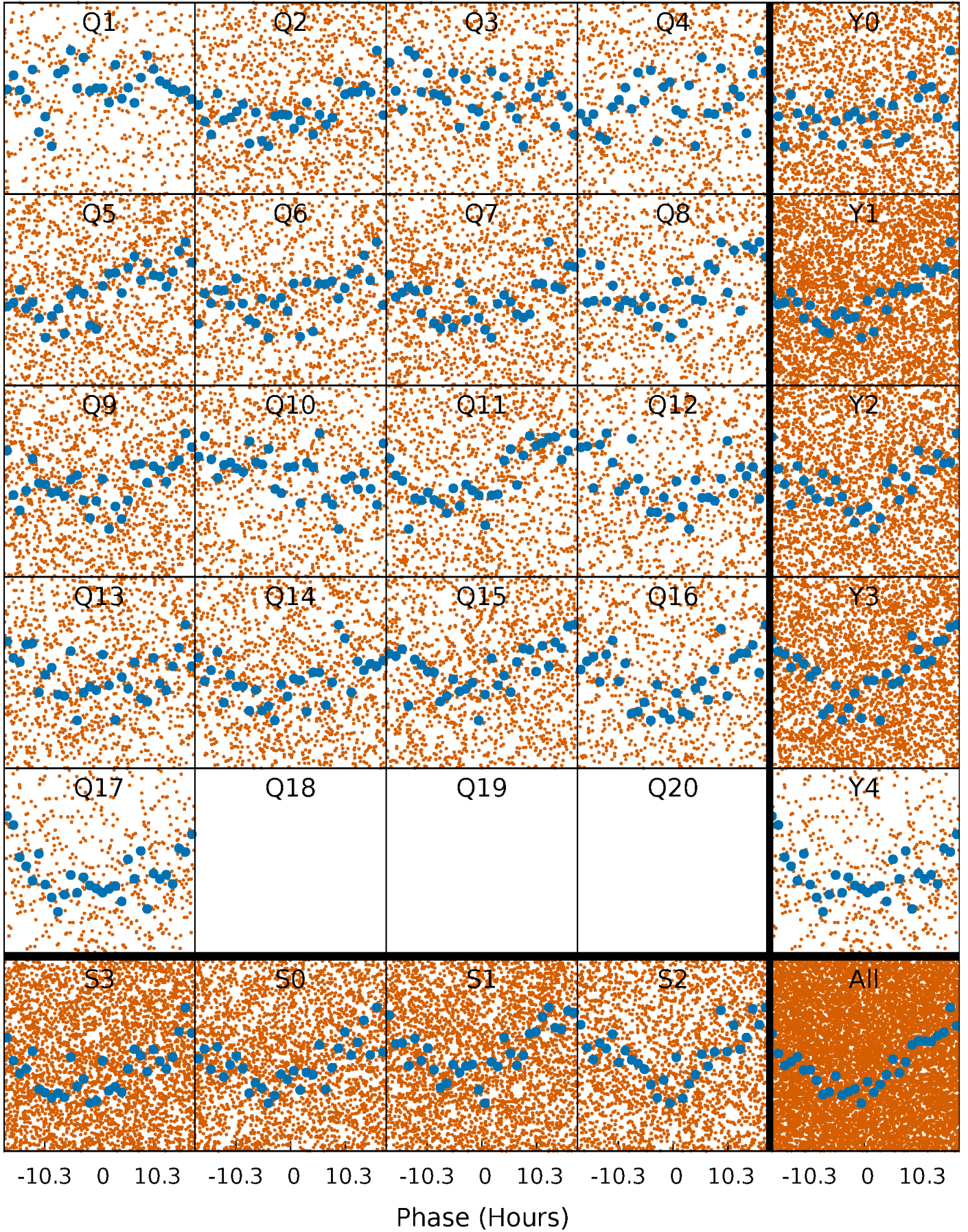


Non-Whitened Vs. Whitened Light Curve



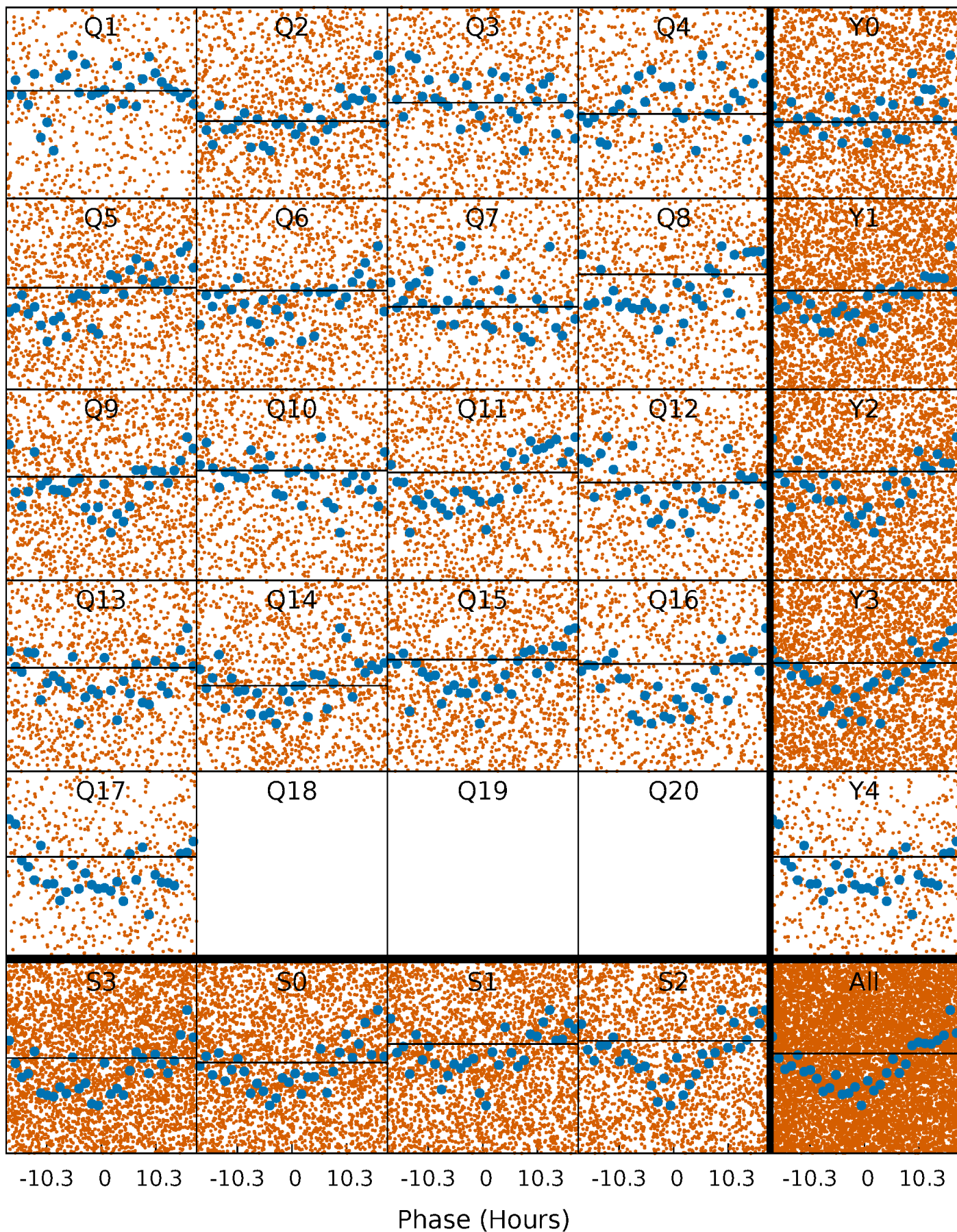
PDC Quarter-Phased Transit Curves

TCE 005083252-01 P= 2.501027 Days $T_0=131.548455$ (BKJD)



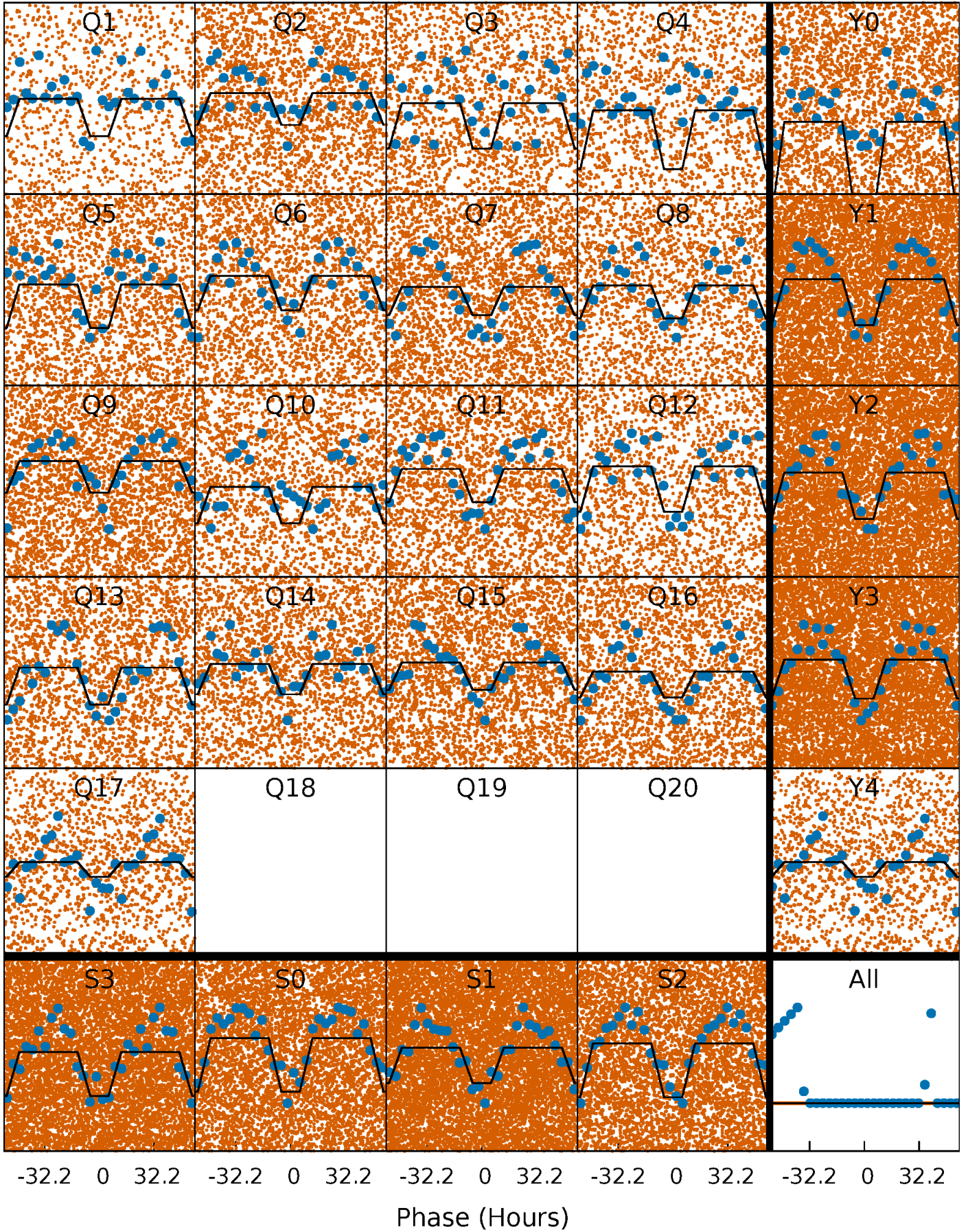
DV Quarter-Phased Transit Curves

TCE 005083252-01 P= 2.501027 Days $T_0=131.548455$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

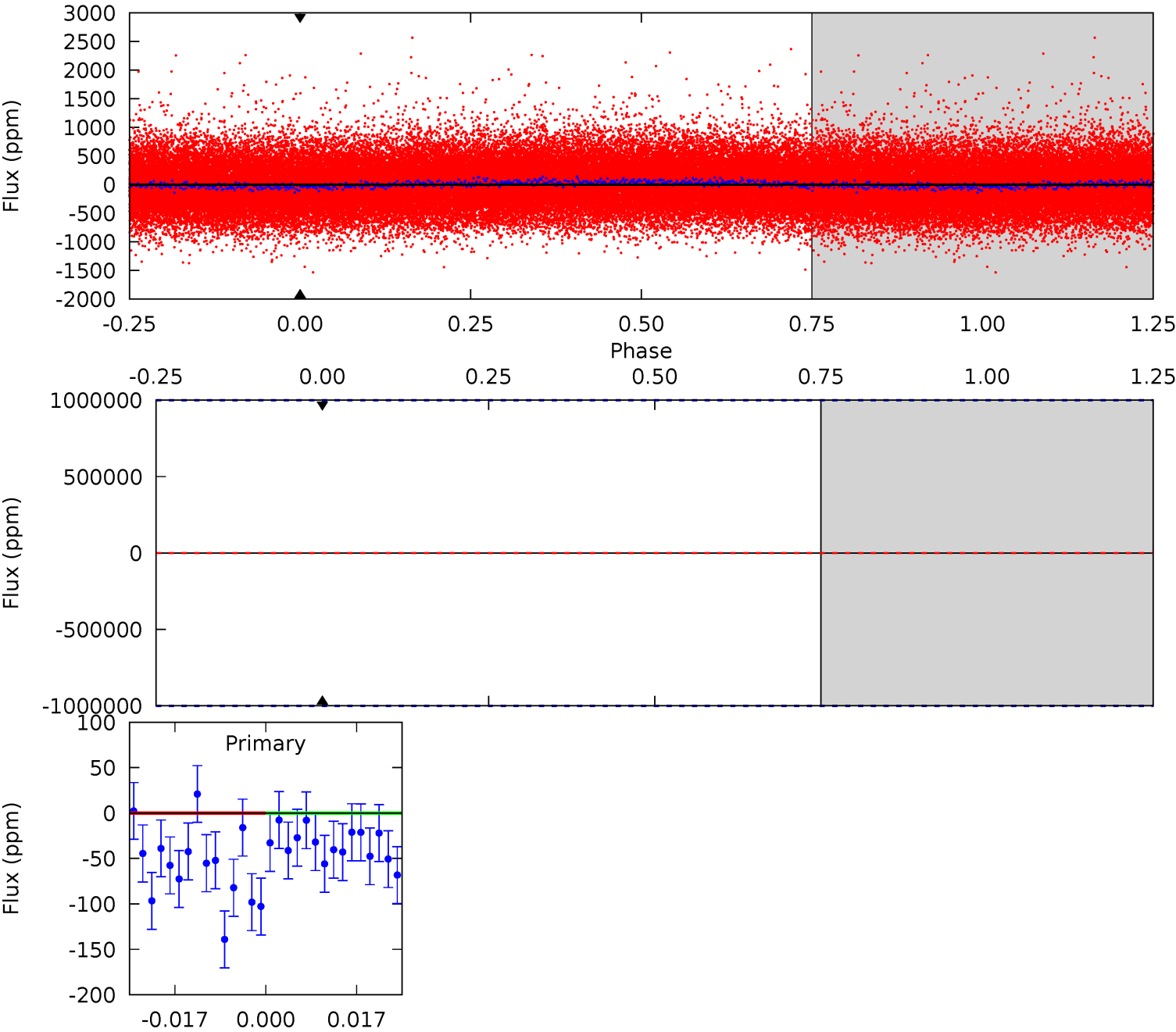
TCE 005083252-01 P= 2.501027 Days $T_0=133.942130$ (BKJD)



DV Model-Shift Uniqueness Test

005083252-01, P = 2.501027 Days, E = 129.047428 Days

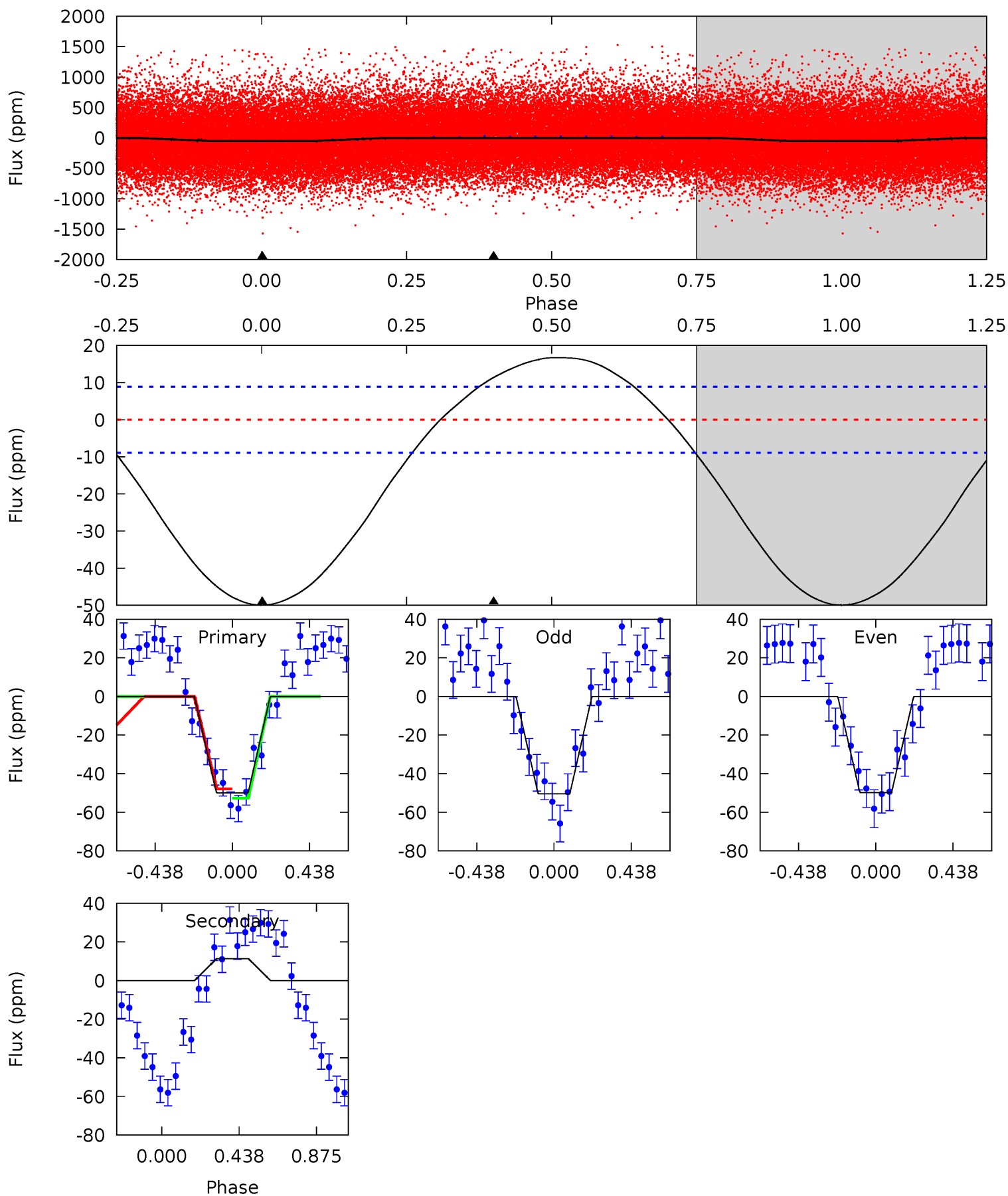
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005083252-01, P = 2.501027 Days, E = 131.441103 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.8	-5.43	0	0	4.24	0.78	2.43	23.8	23.8	-5.43	-5.43	0.16	1.46	0.25	1.11



Stellar Parameters For KIC 005083252

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6305^{+169}_{-206}	$4.422^{+0.070}_{-0.210}$	$-0.200^{+0.250}_{-0.300}$	$1.052^{+0.349}_{-0.116}$	$1.060^{+0.158}_{-0.129}$	$1.283^{+0.381}_{-0.696}$
	+3%/-3%	+2%/-5%	+125%/-150%	+33%/-11%	+15%/-12%	+30%/-54%
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 005083252-01 / KOI 6512.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$9.33^{+8.83}_{-6.26}$	2109^{+150}_{-100}	2761^{+24550}_{-23847}	$0.677^{+1626.107}_{-1266.120}$
Alt.	11 ± 2	$8.39^{+8.63}_{-5.73}$	2104^{+160}_{-108}	-2723^{+152}_{-433}	$-0.120^{+0.093}_{-1.059}$

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

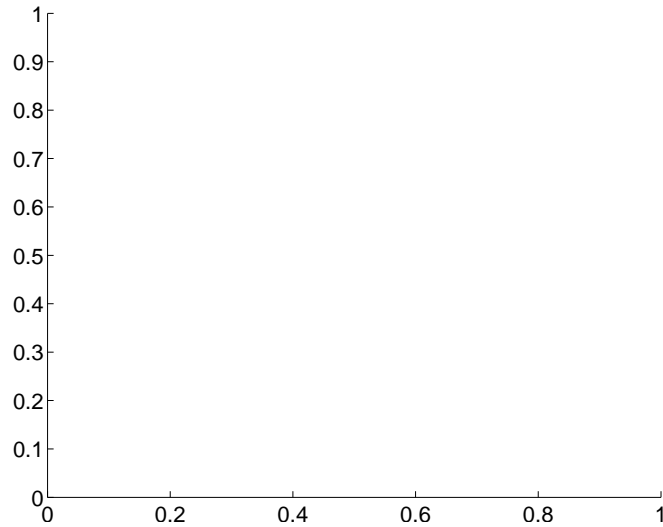
Supplemental centroid analysis for 005083252-01. Kepler magnitude: 15.04. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

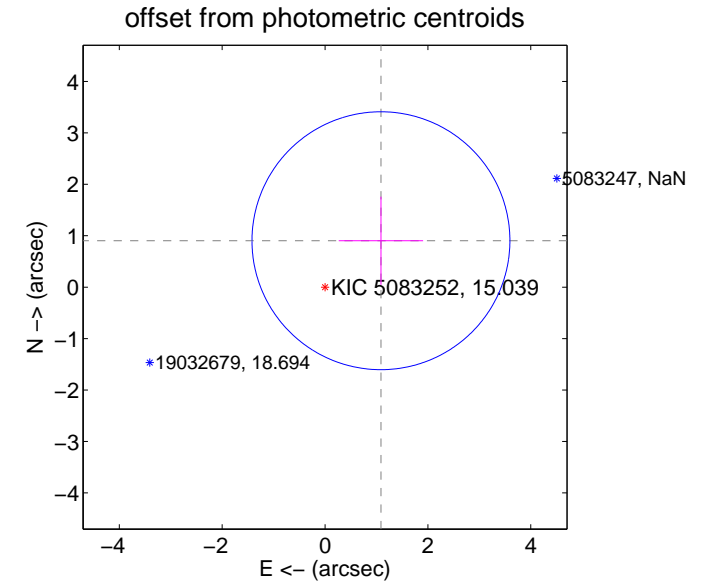
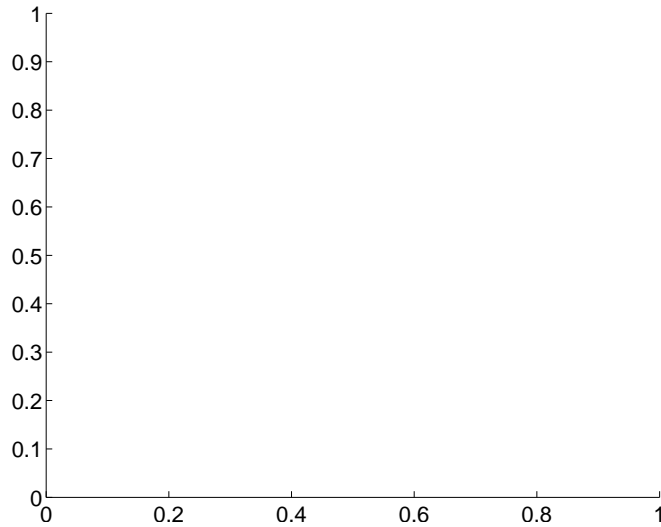
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	1.41 ± 0.84	1.69	-1.09 ± 0.82	0.90 ± 0.86

There is no PRF-fit offset from OOT-fit

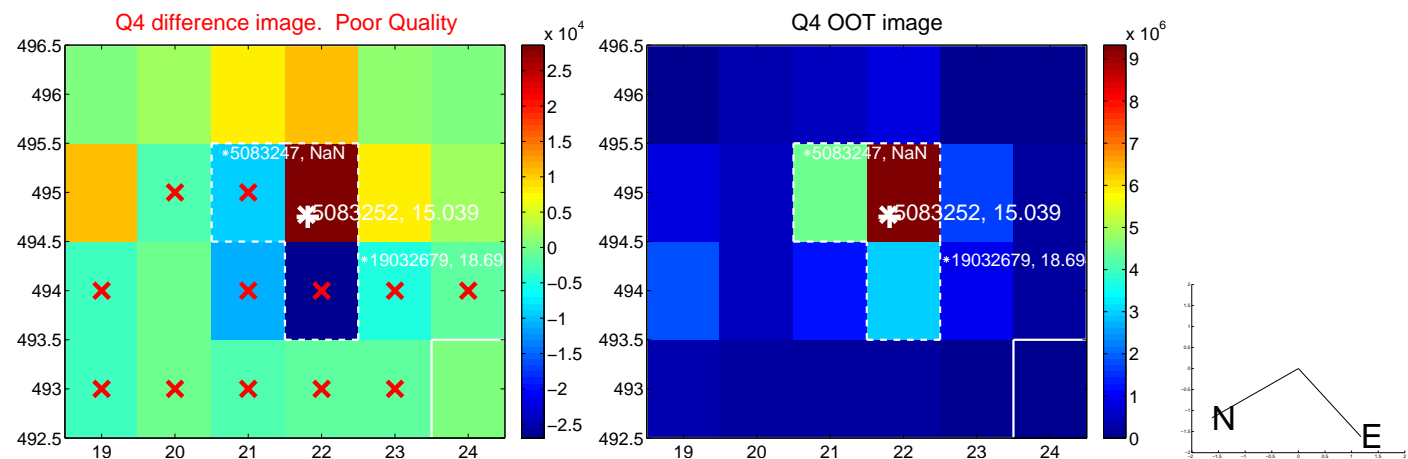
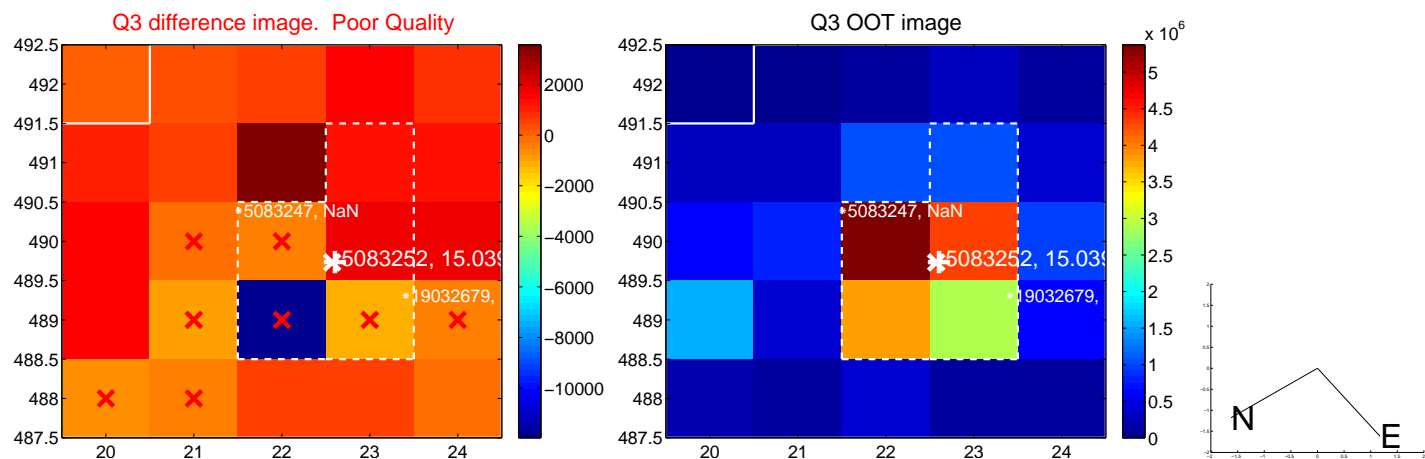
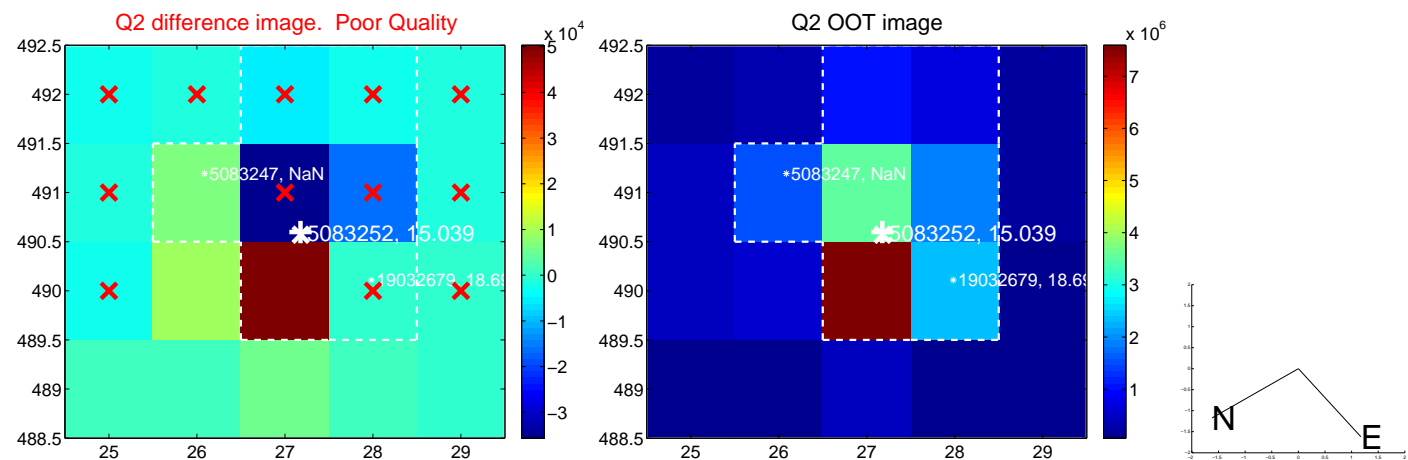
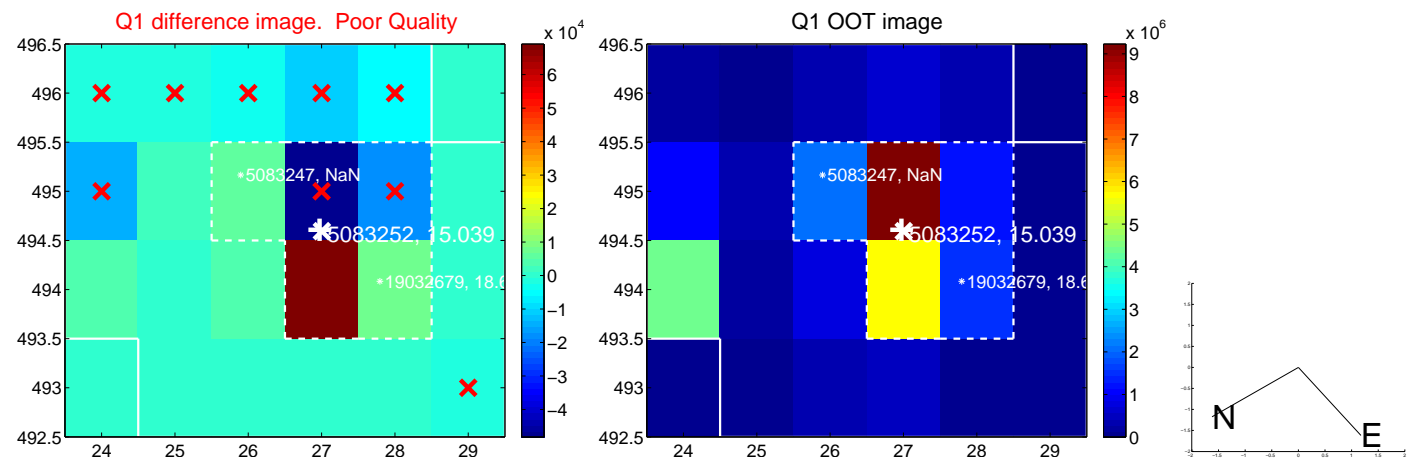


There is no PRF-fit offset from KIC

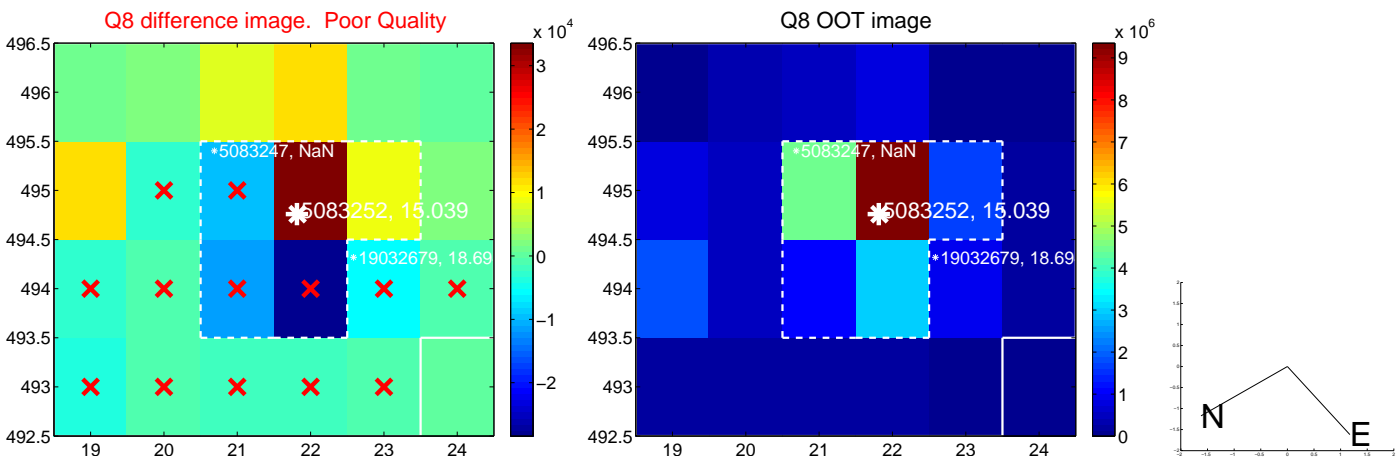
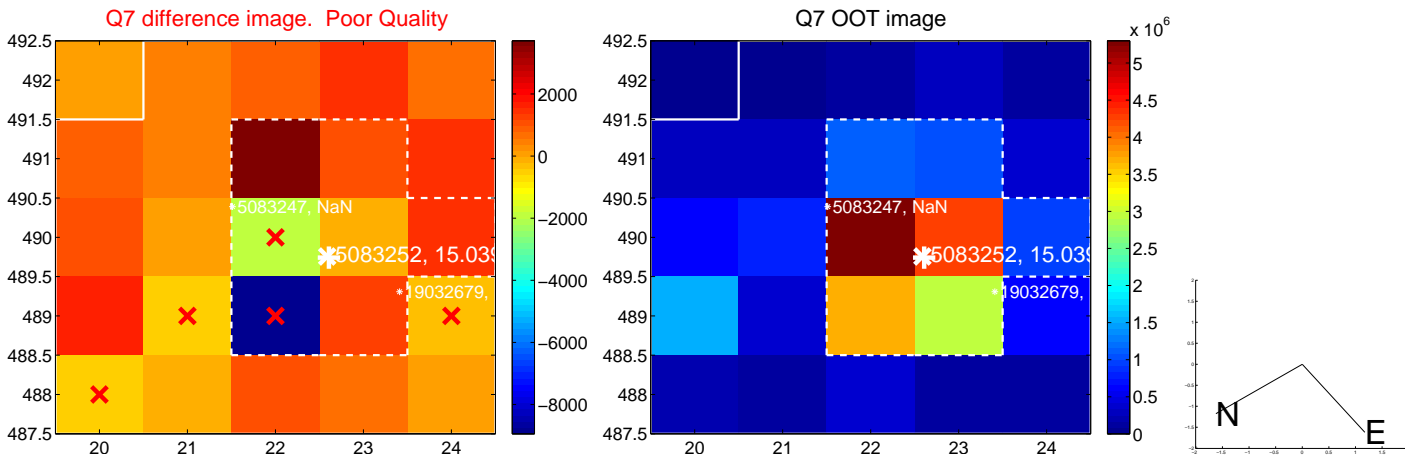
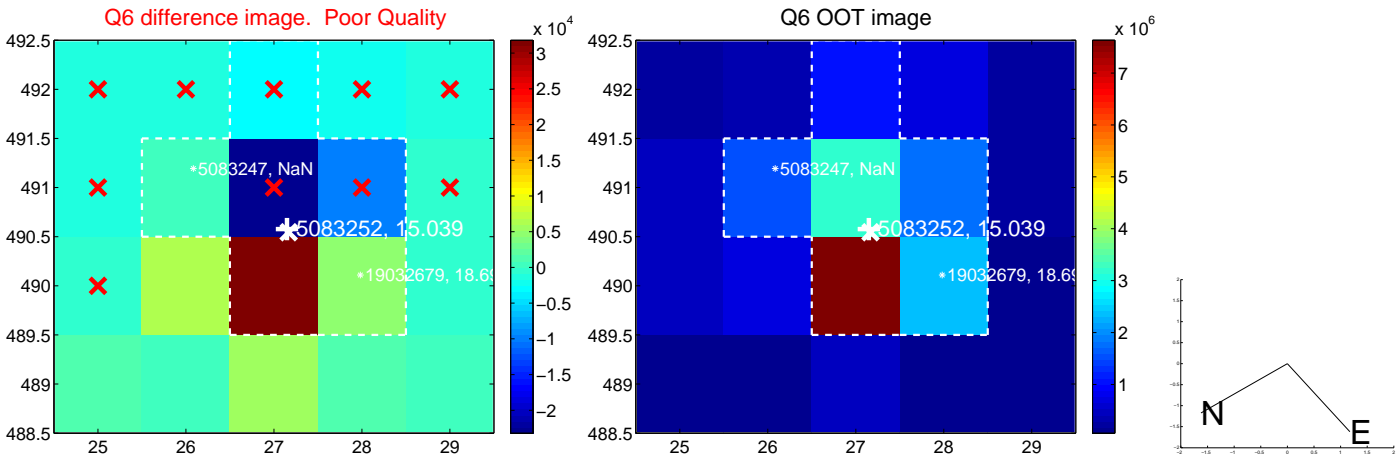
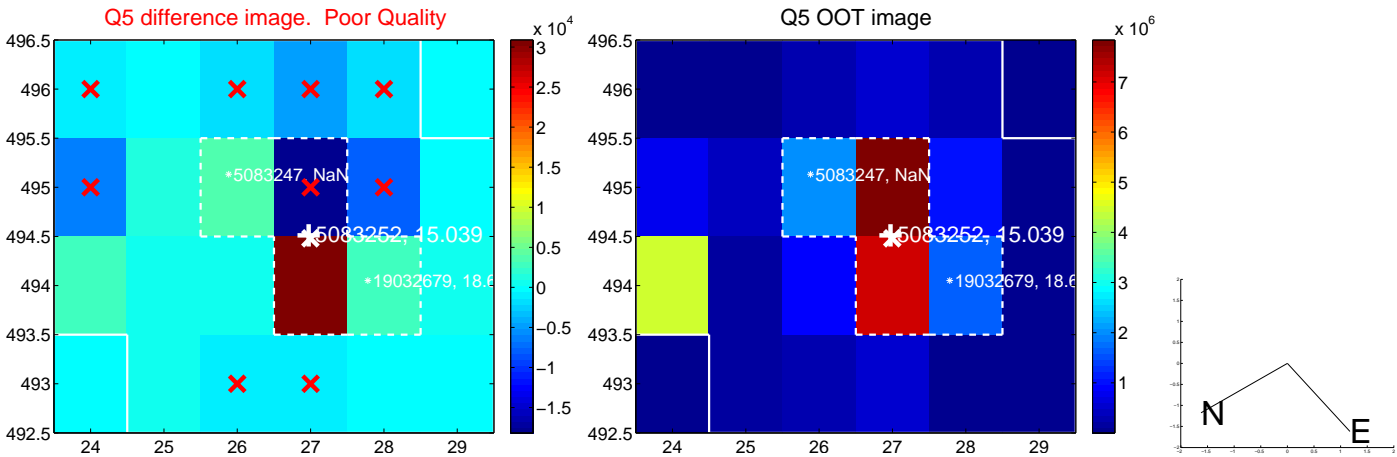


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

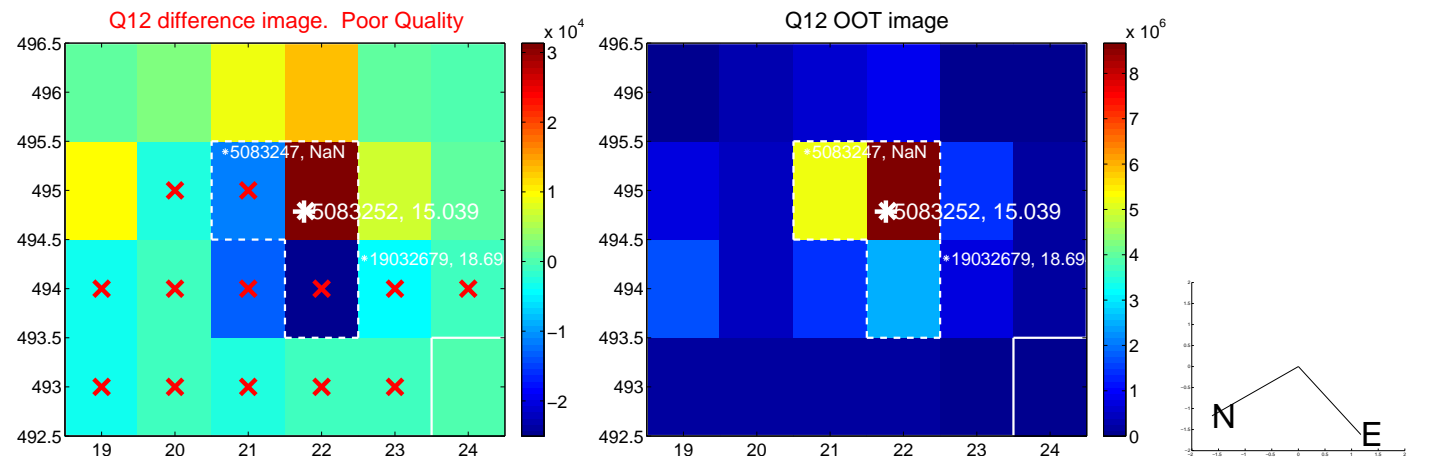
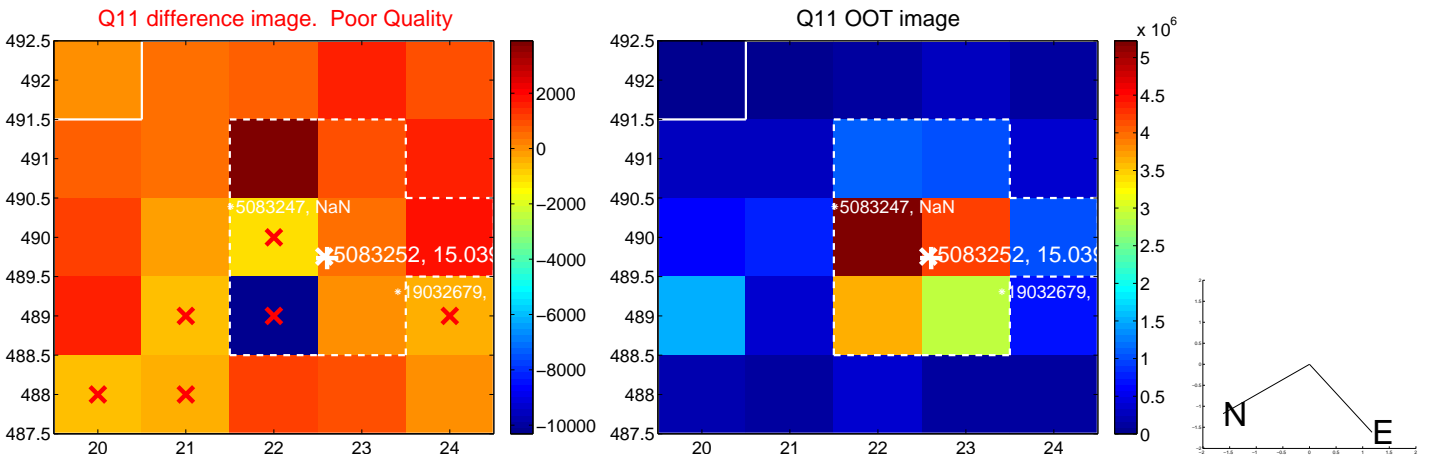
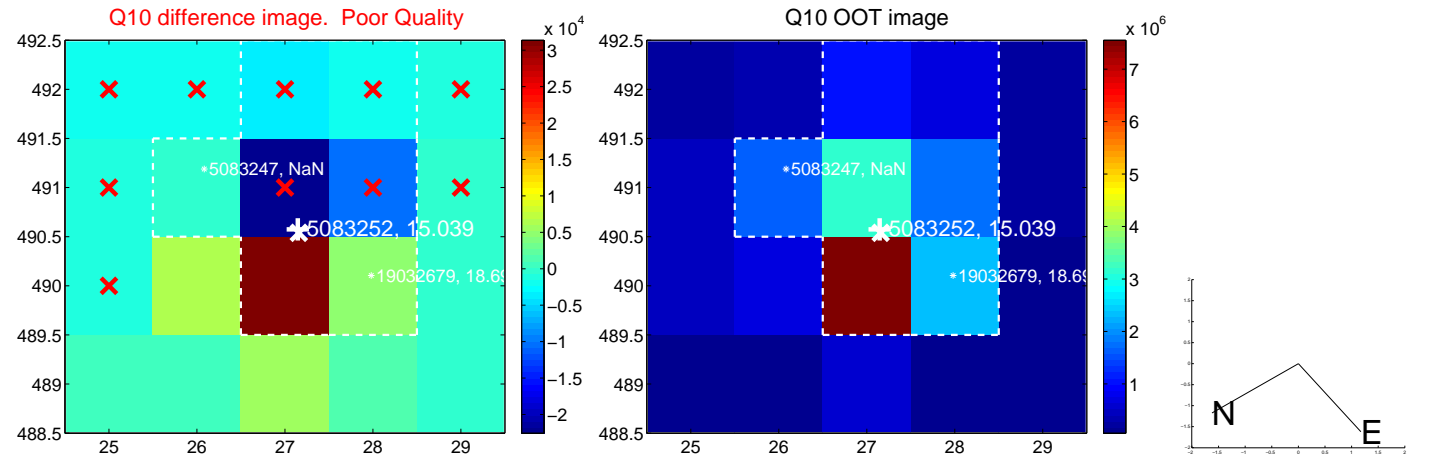
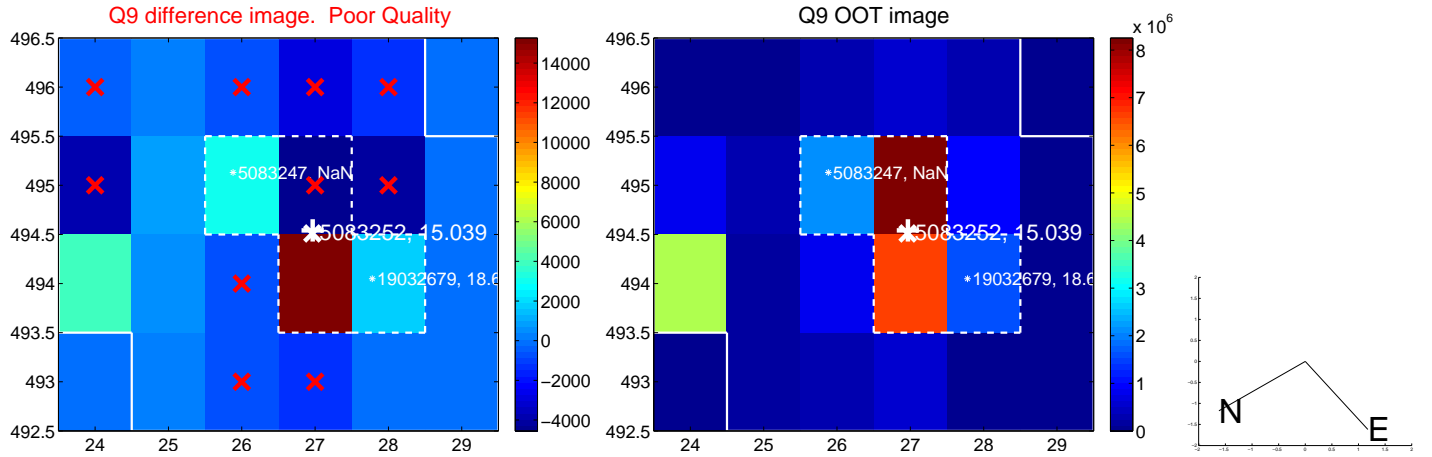
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



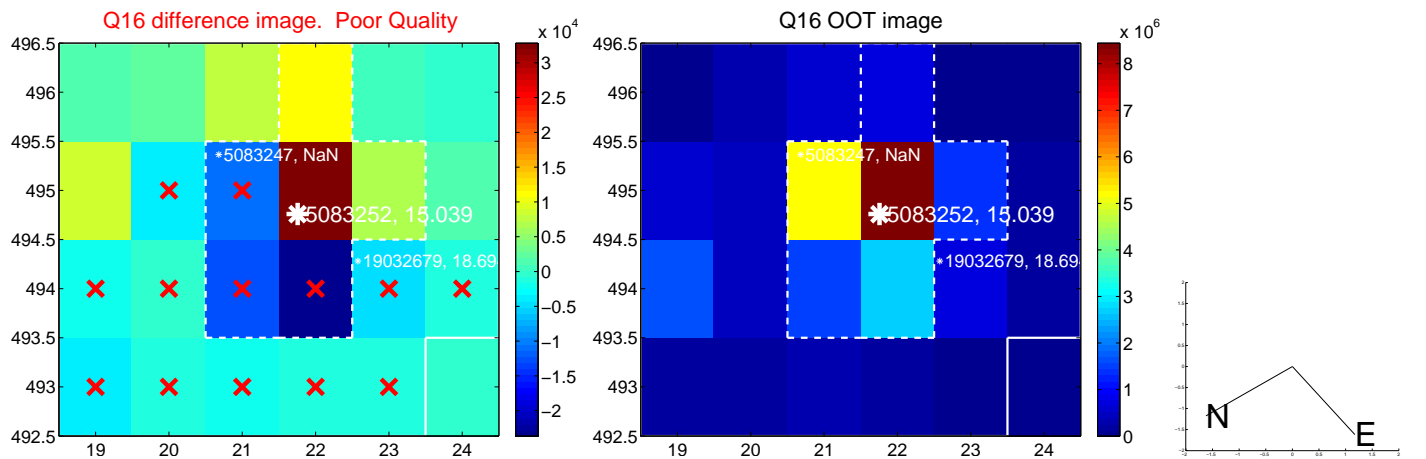
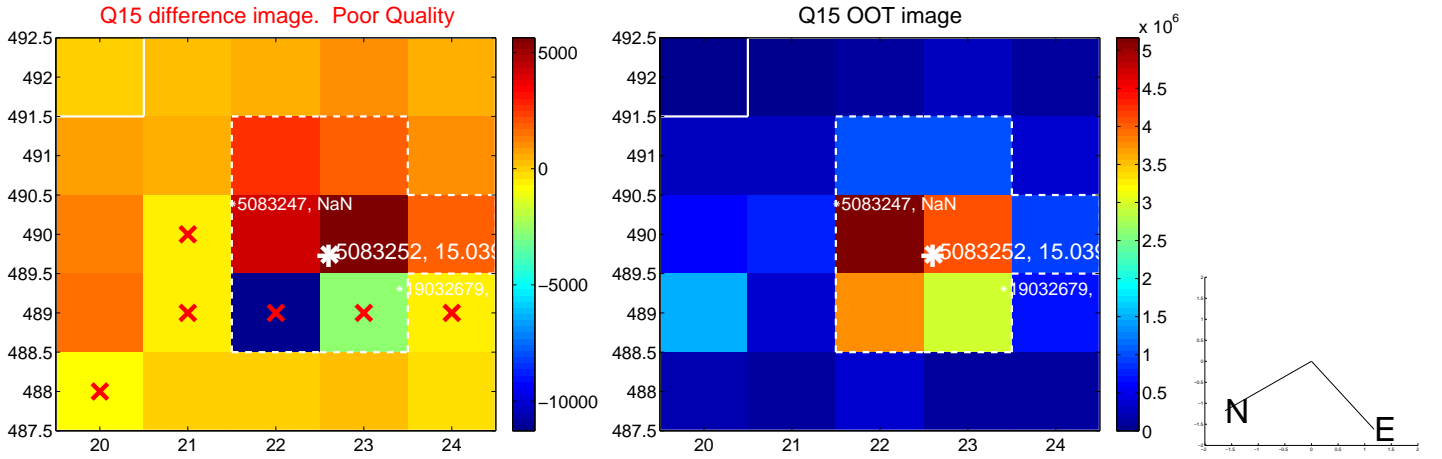
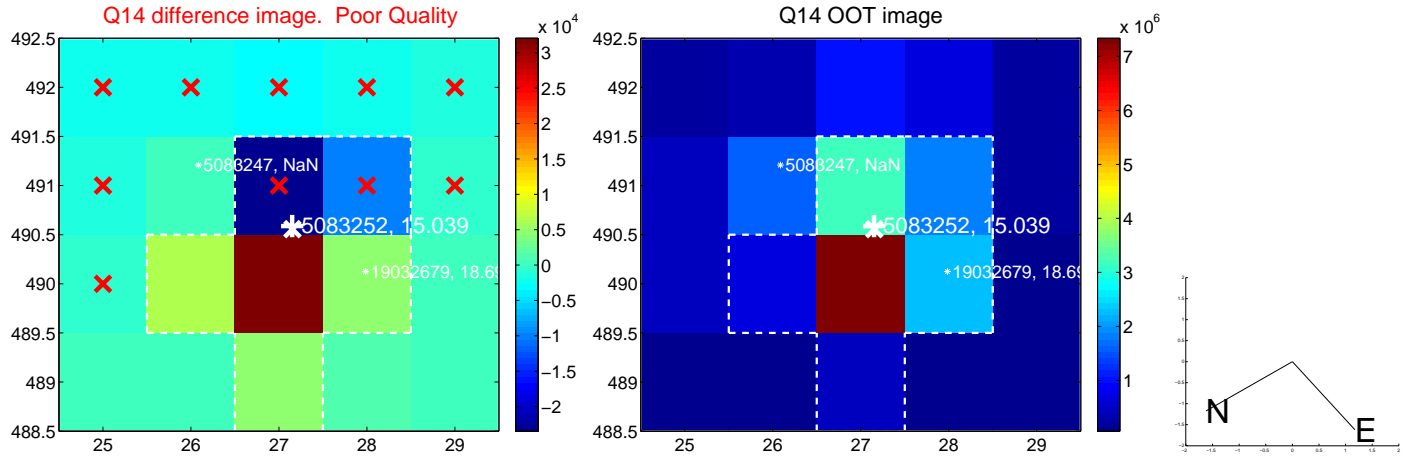
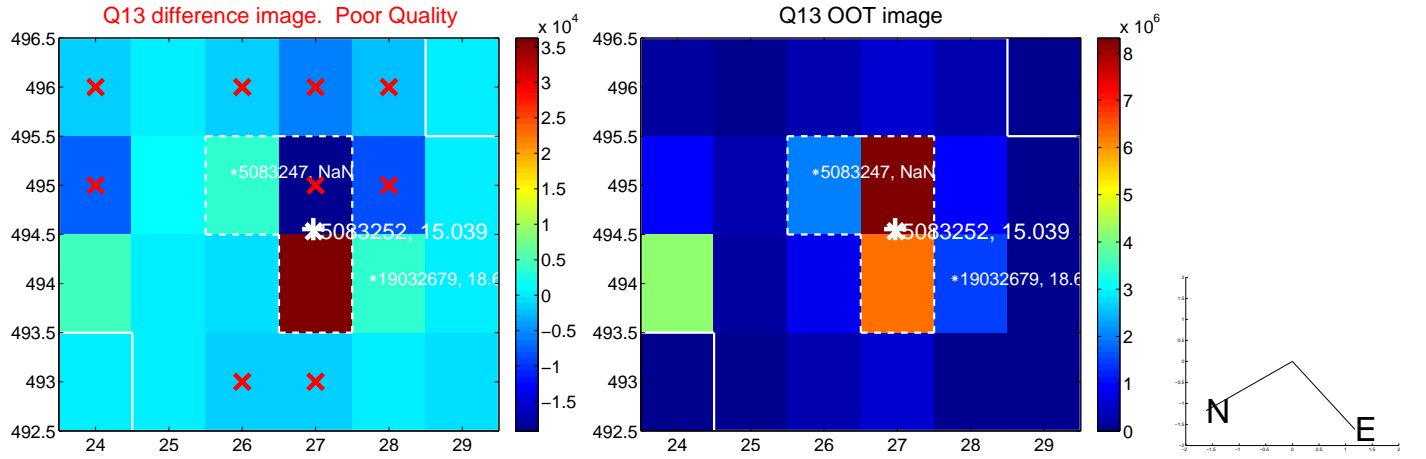
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



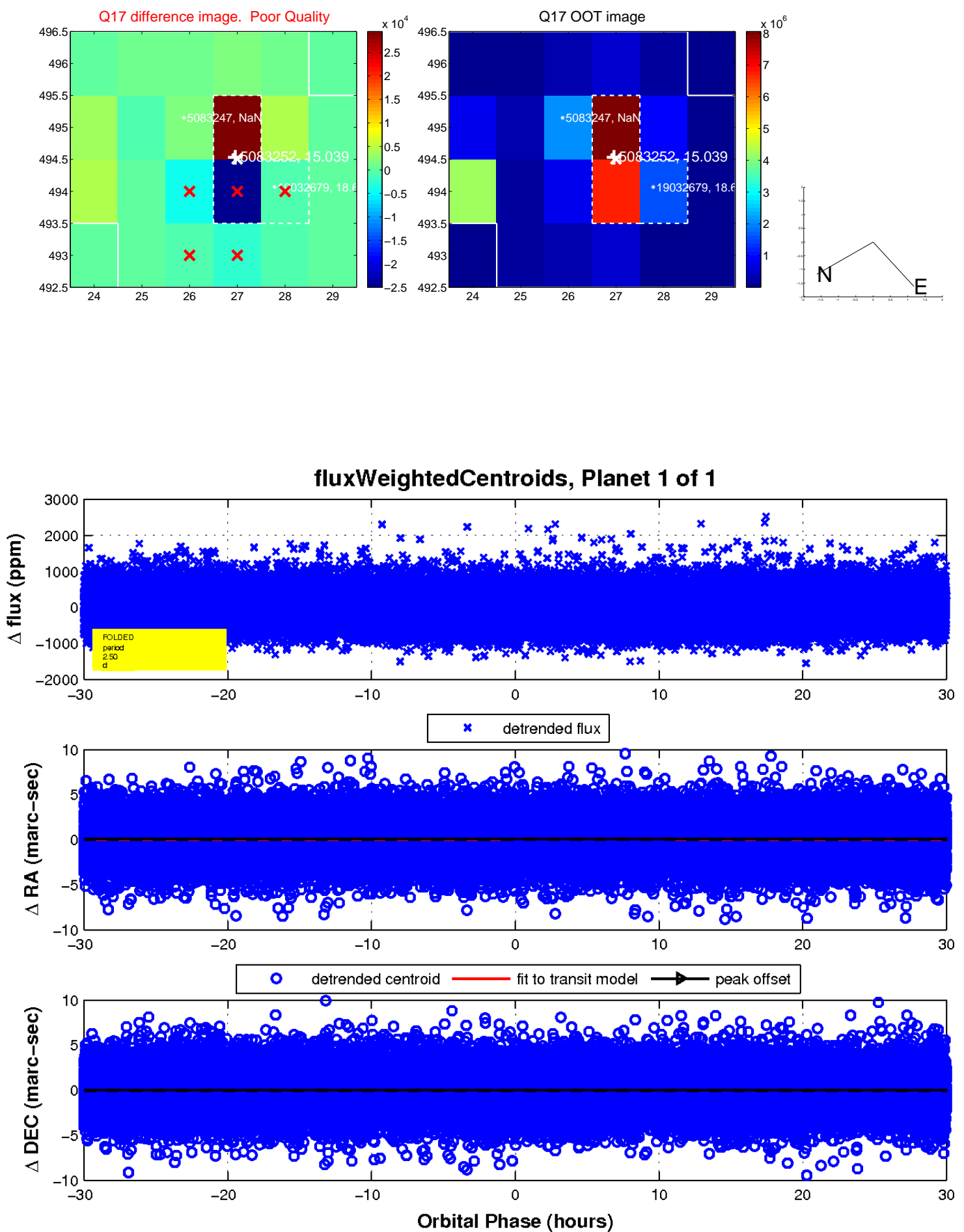
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

