

KIC 006632383

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})
006632383-01	OBS	No	0.899812	132.420697	29.1	7.772	8.4	7.7	0.98	6299	0.64	3976.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006632383-01	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.

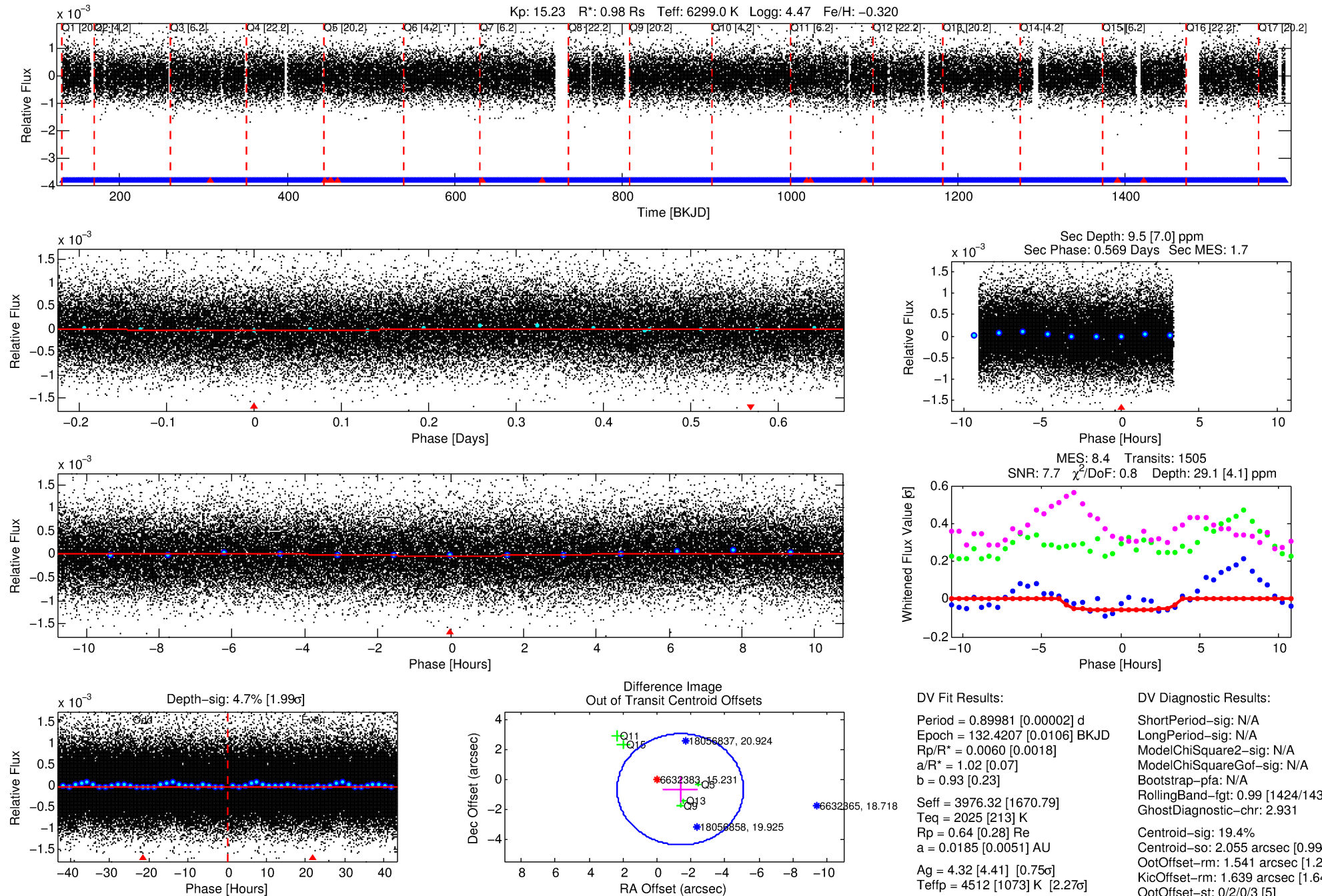
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006632383-01

No Significant Match Found

DV One-Page Summary

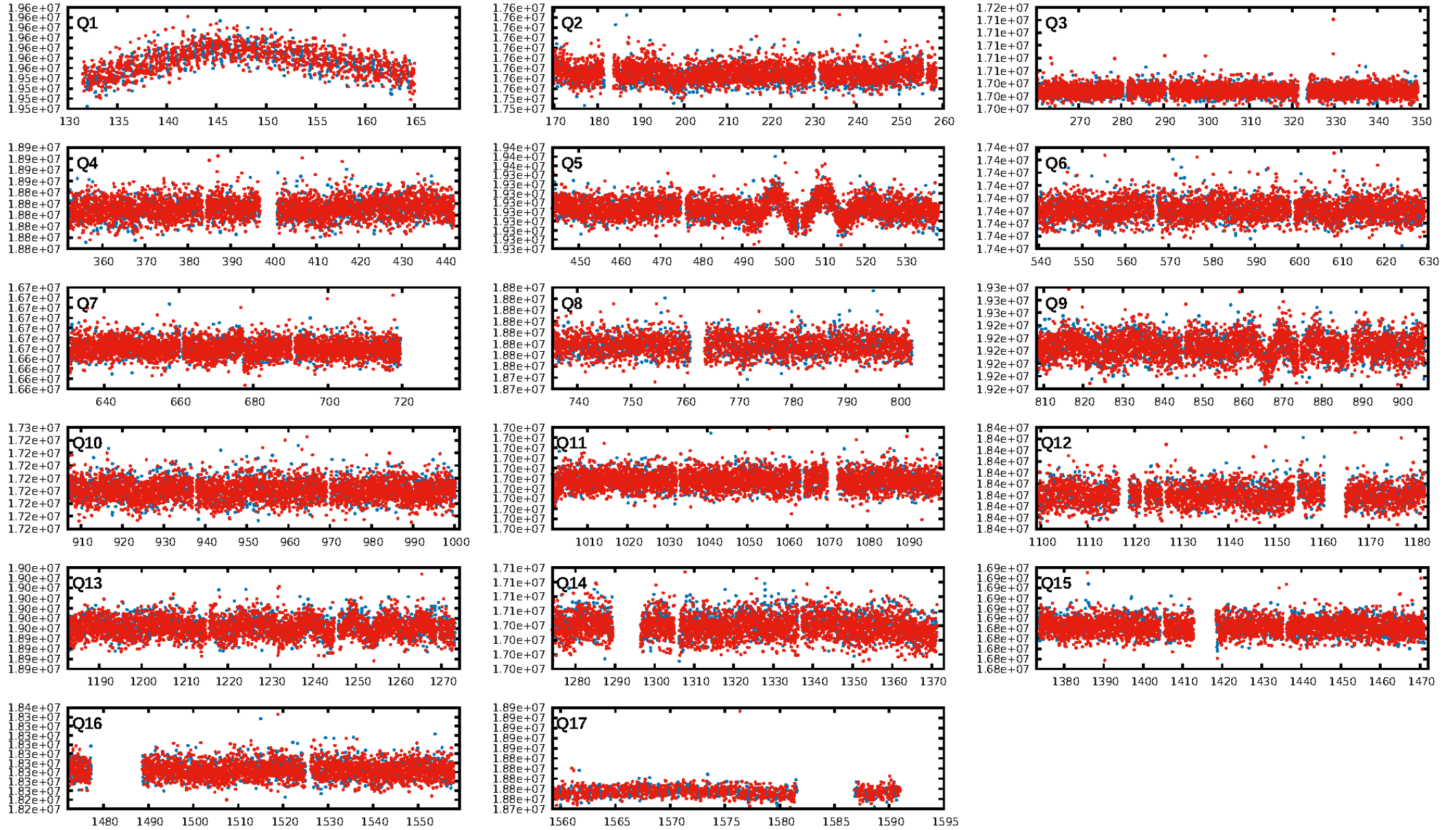
KIC: 6632383 Candidate: 1 of 1 Period: 0.900 d



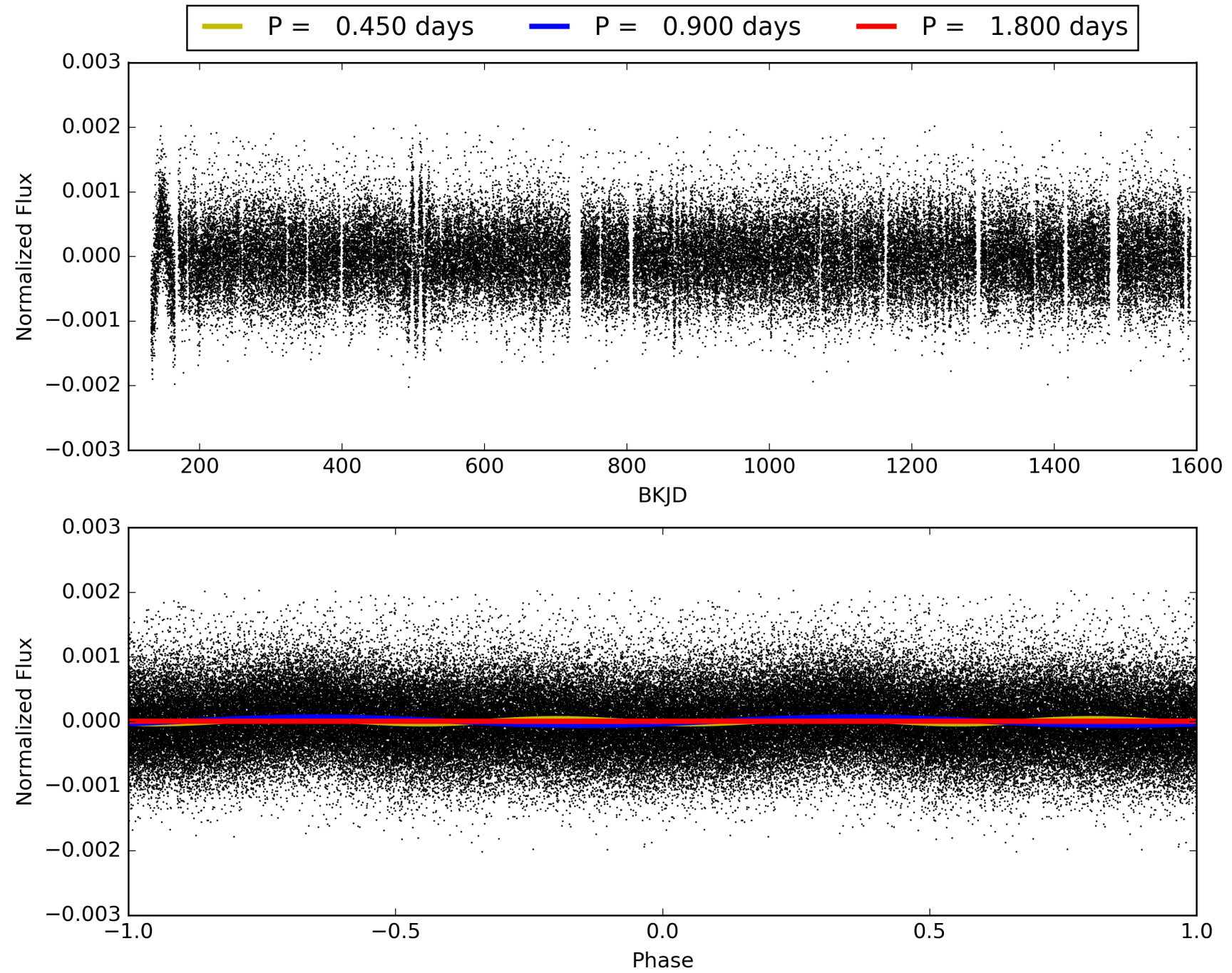
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 23:06:05 Z

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

TCE 006632383-01, PDC Light Curves

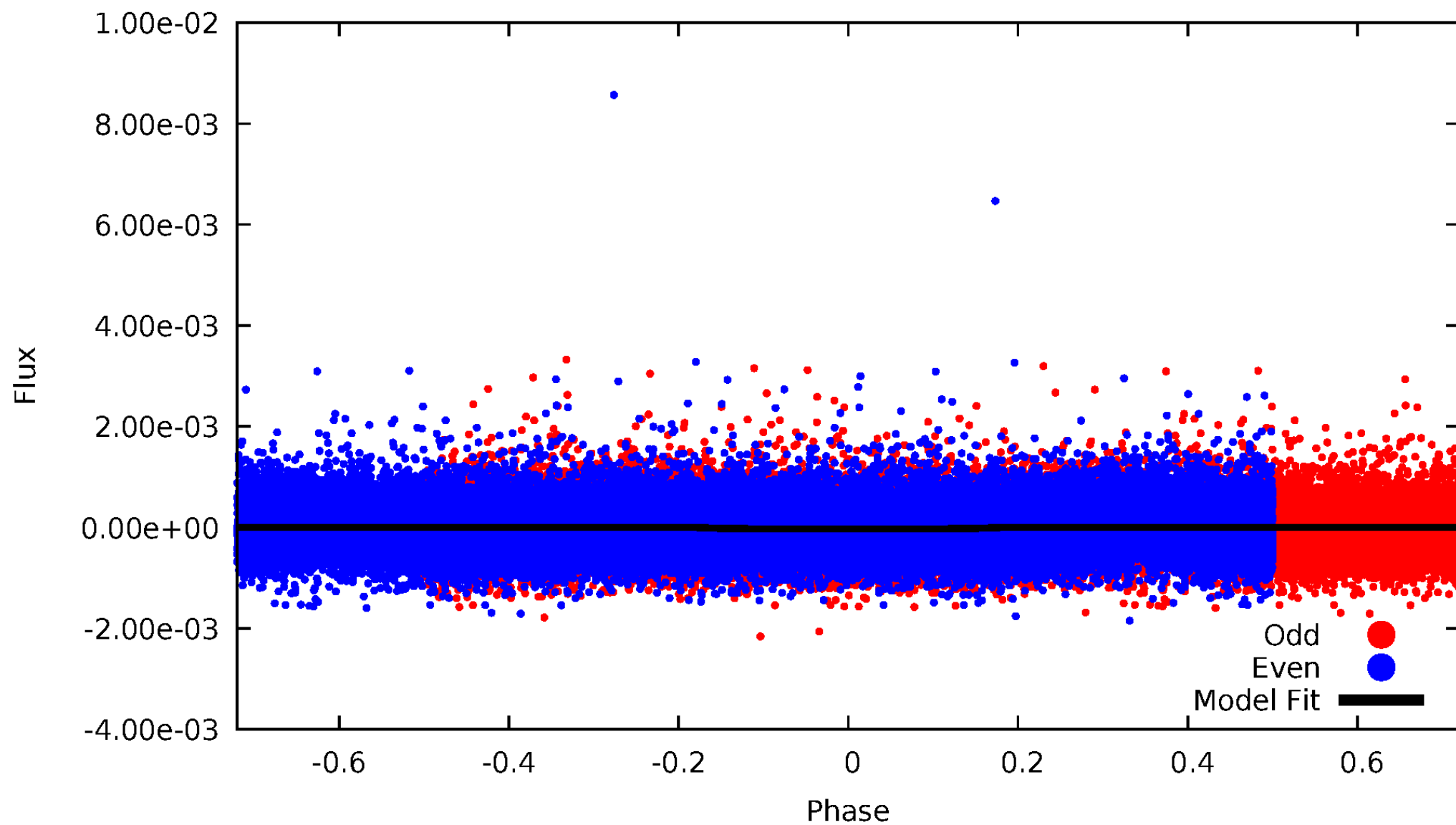


TCE 006632383-01



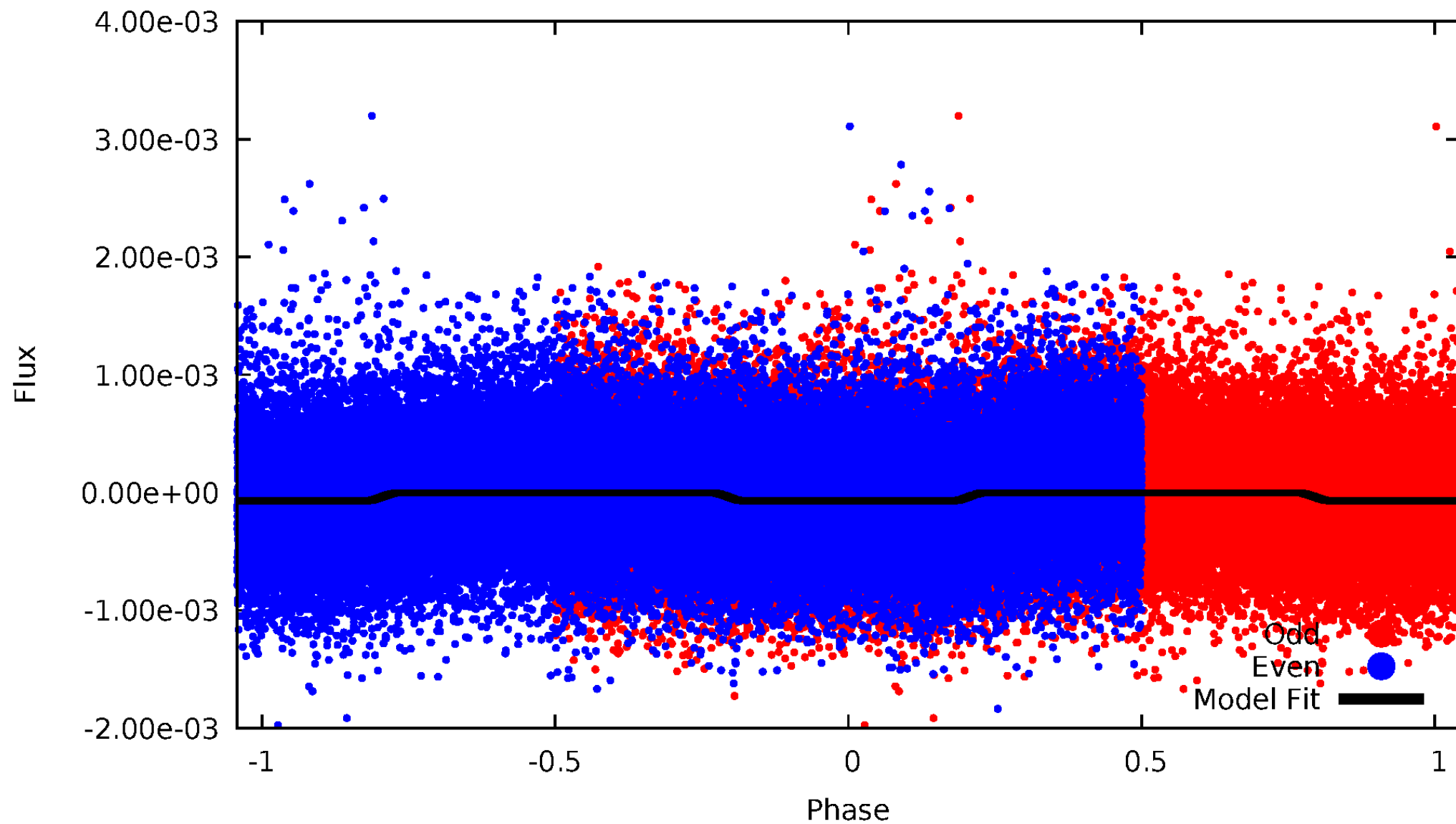
DV Odd/Even

TCE 006632383-01



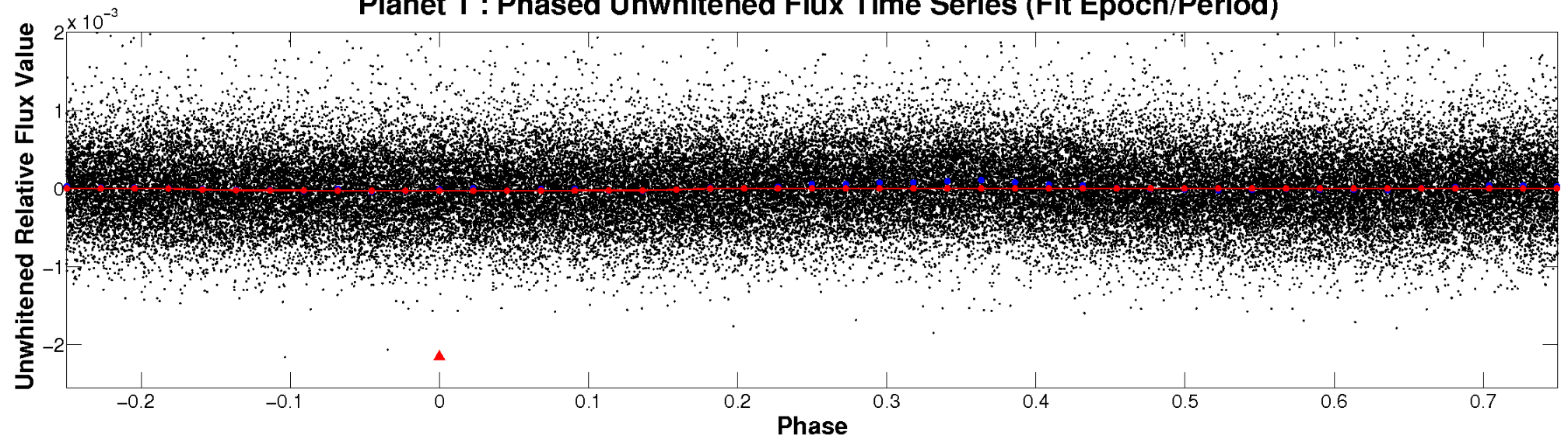
ALT Odd/Even

TCE 006632383-01

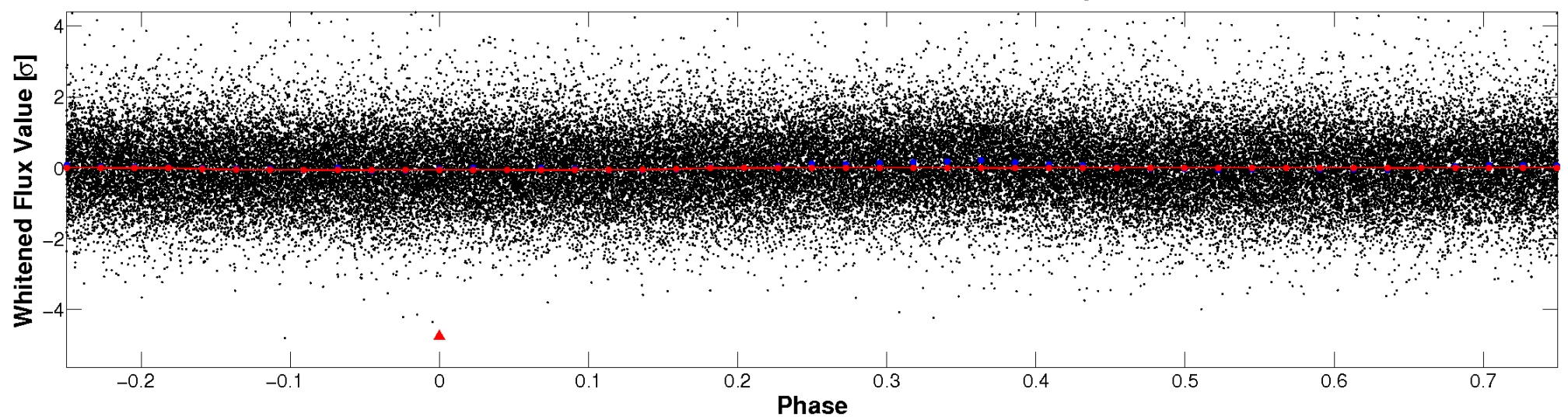


Non-Whitened Vs. Whitened Light Curve

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

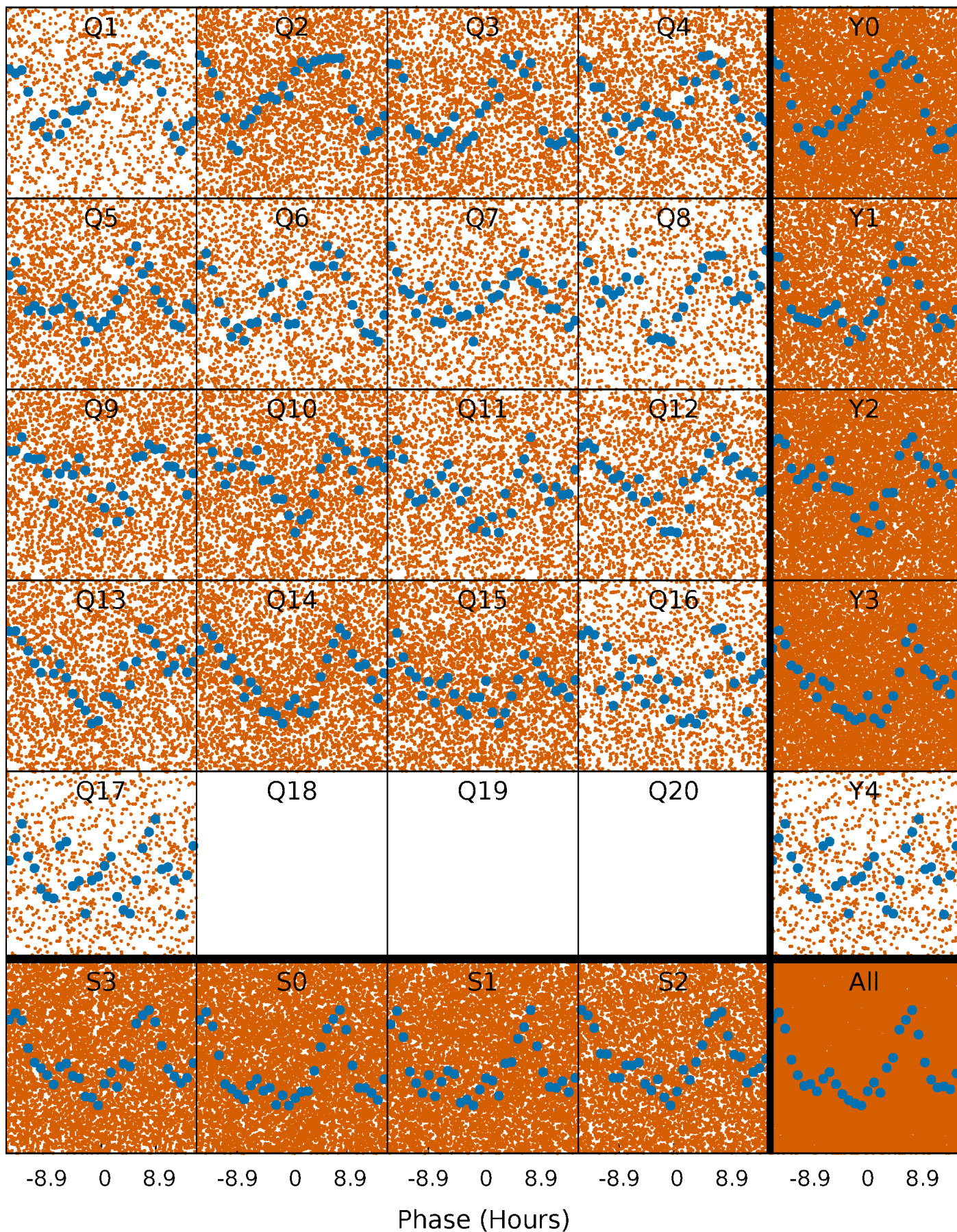


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



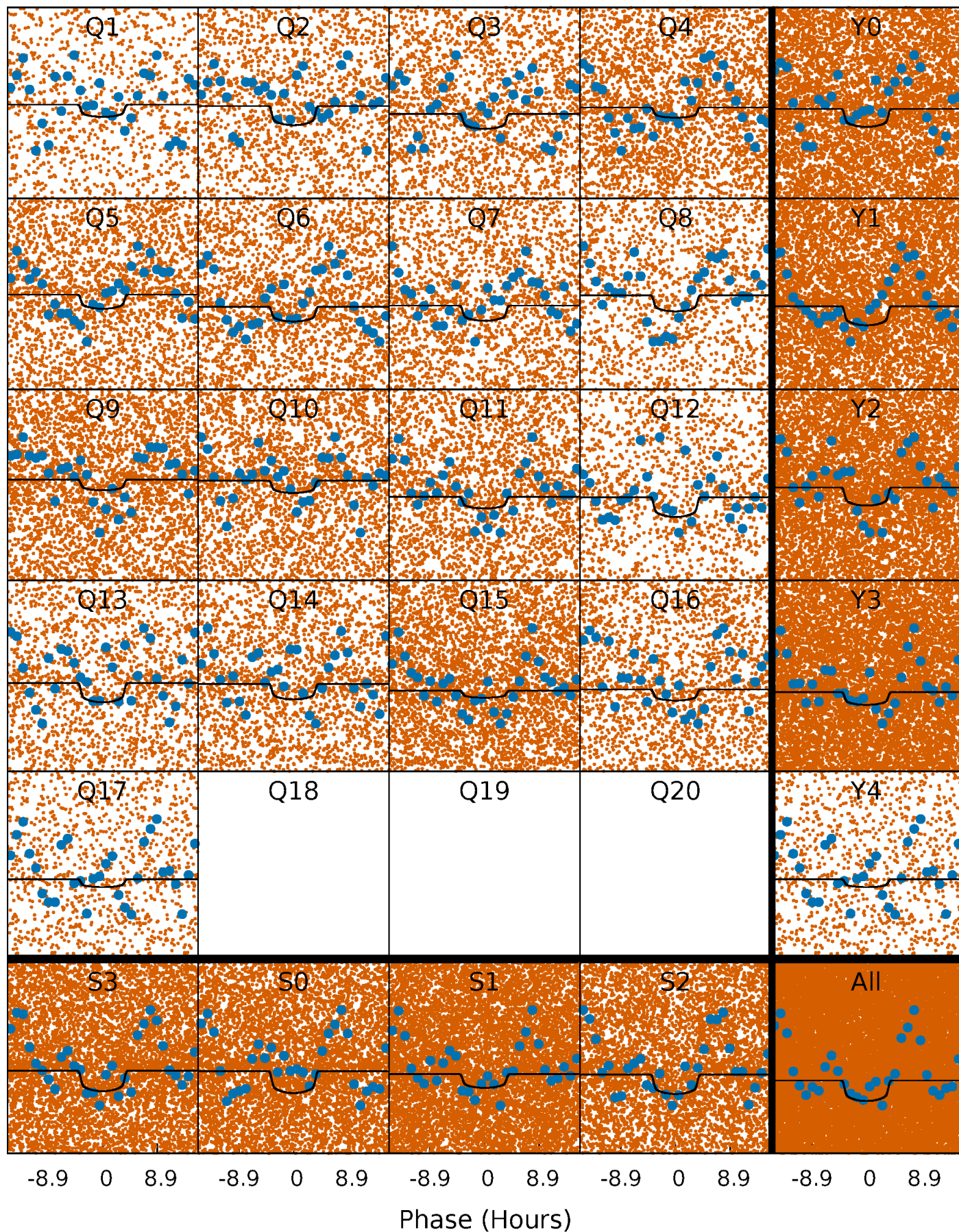
PDC Quarter-Phased Transit Curves

TCE 006632383-01 P= 0.899812 Days $T_0=132.420697$ (BKJD)



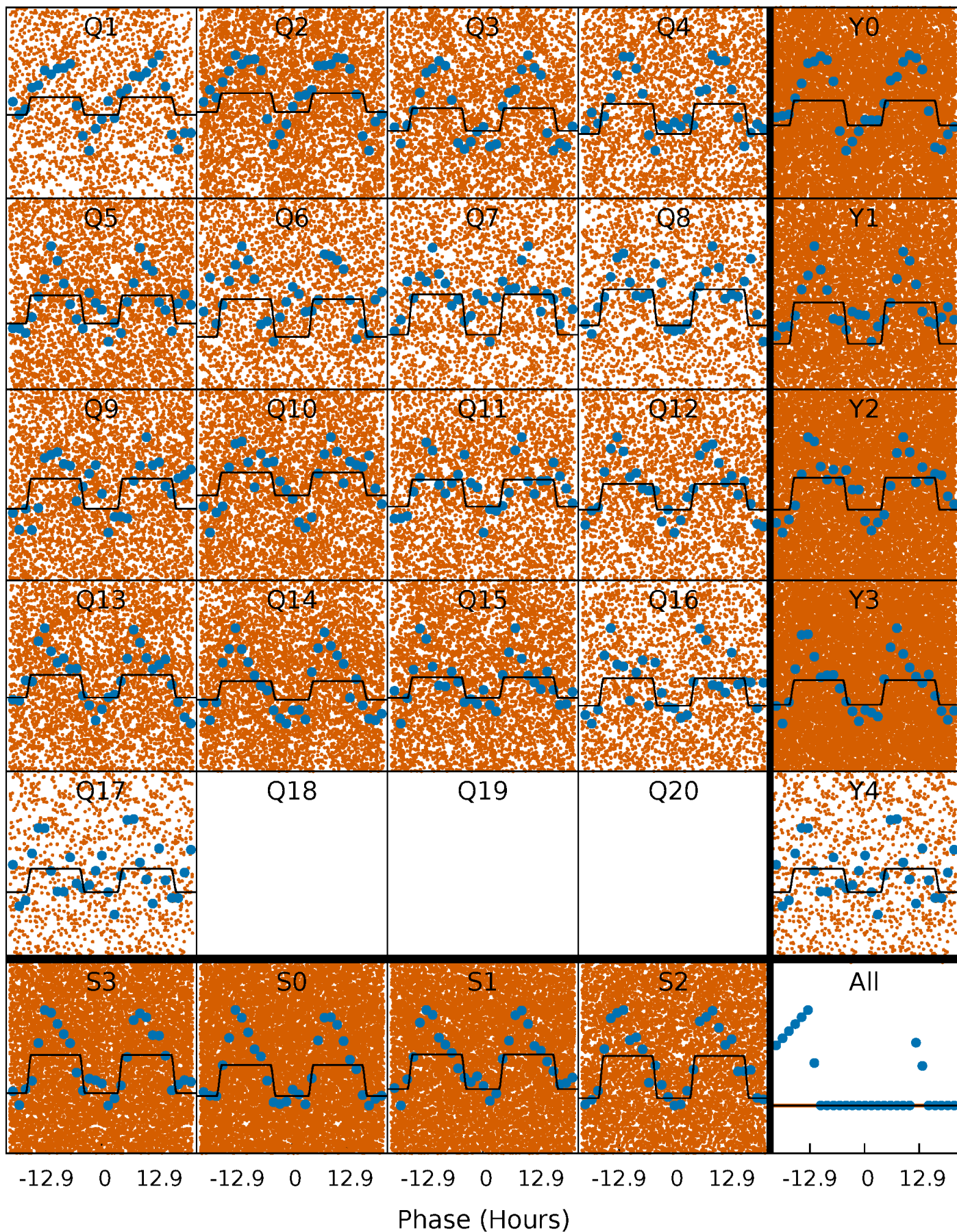
DV Quarter-Phased Transit Curves

TCE 006632383-01 P= 0.899812 Days $T_0=132.420697$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

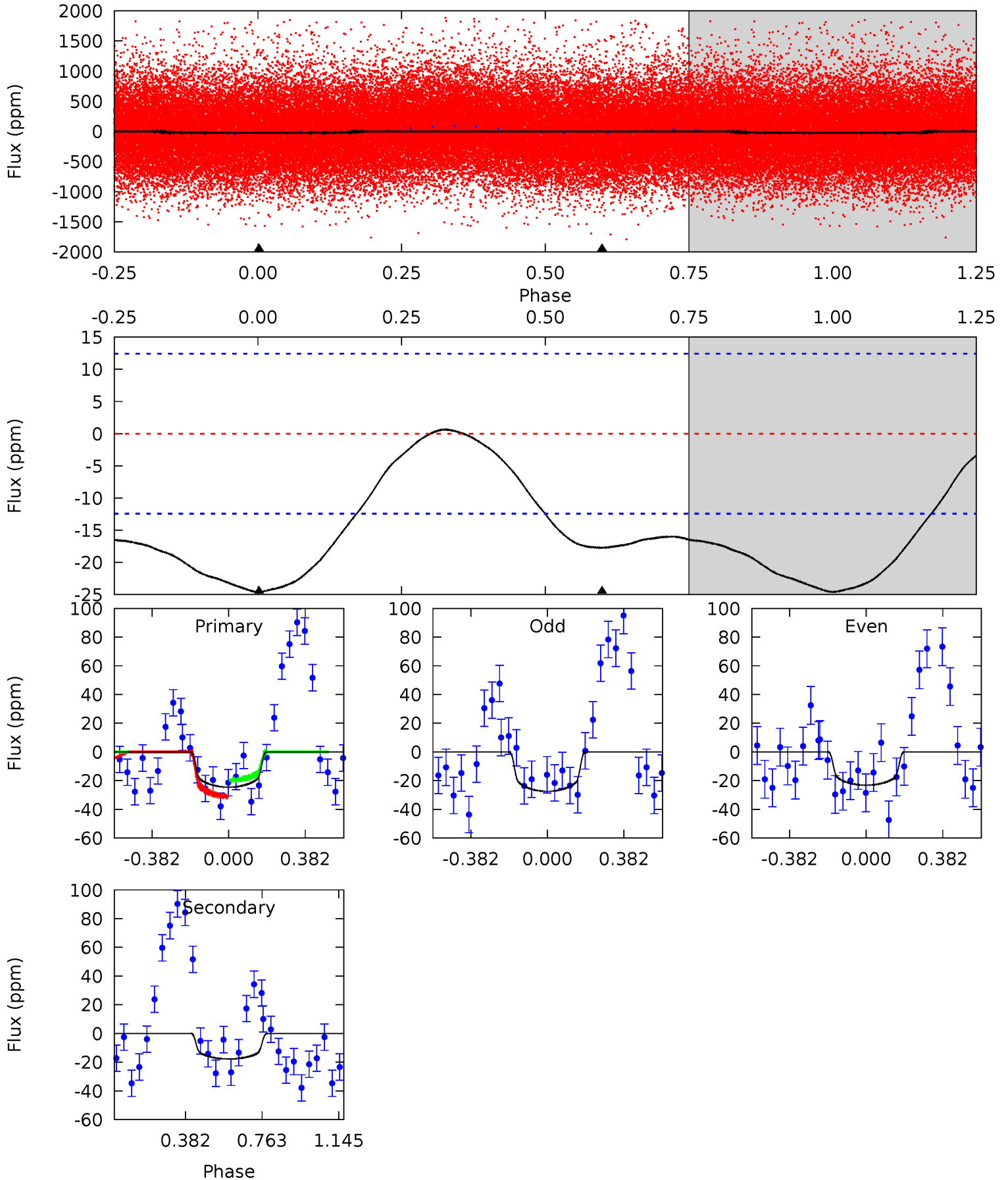
TCE 006632383-01 P= 0.899996 Days $T_0=132.173907$ (BKJD)



DV Model-Shift Uniqueness Test

006632383-01, P = 0.899812 Days, E = 130.621073 Days

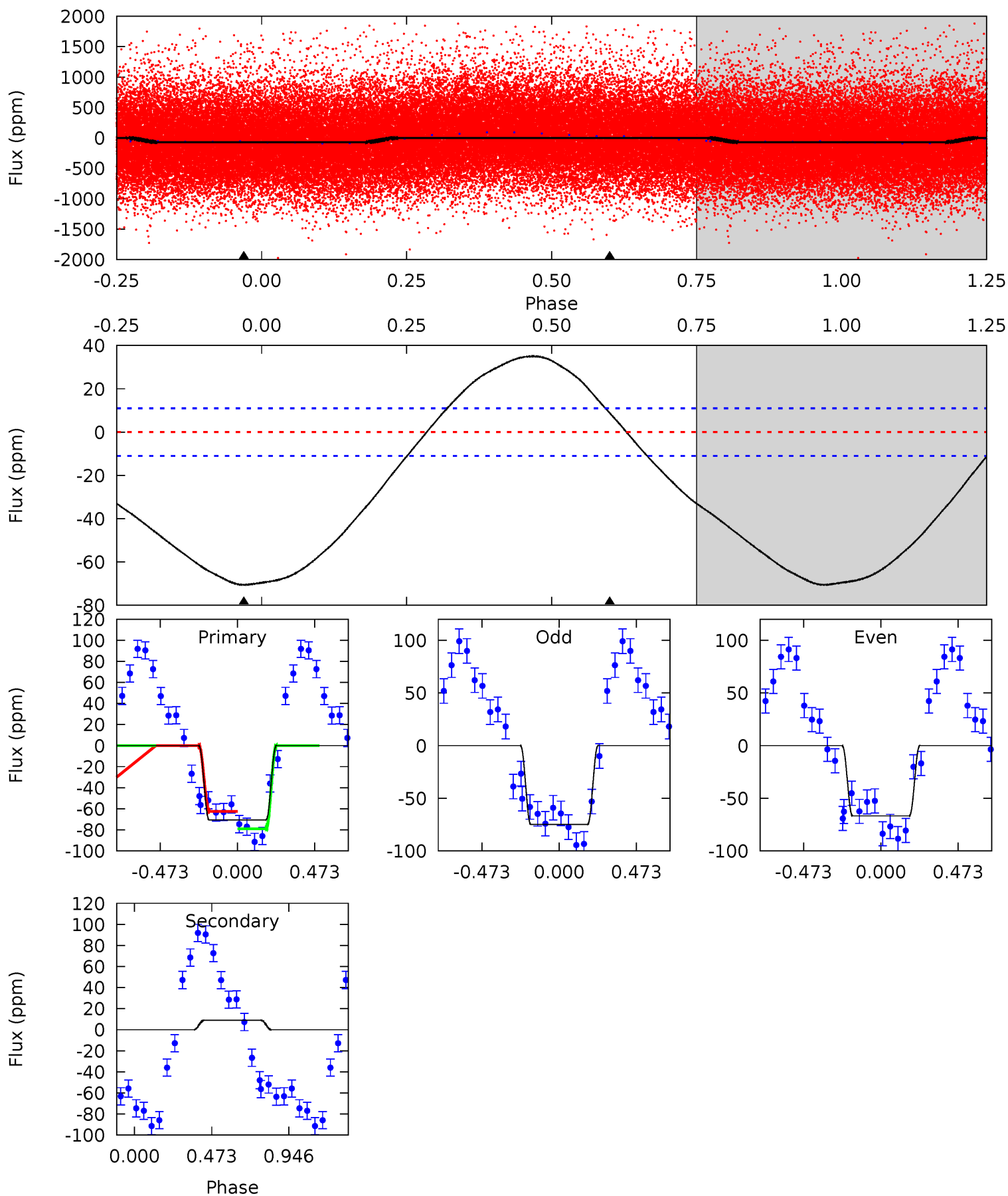
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.46	6.10	0	0	4.28	0.87	0.42	8.46	8.46	6.10	6.10	0.74	0.91	0.03	2.00



Alt Model-Shift Uniqueness Test

006632383-01, P = 0.899996 Days, E = 131.273911 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.2	-3.41	0	0	4.23	0.72	3.58	27.2	27.2	-3.41	-3.41	1.55	0.98	0.33	3.21



Stellar Parameters For KIC 006632383

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6299^{+198}_{-220}	$4.472^{+0.054}_{-0.216}$	$-0.320^{+0.300}_{-0.300}$	$0.983^{+0.320}_{-0.107}$	$1.045^{+0.143}_{-0.143}$	$1.549^{+0.429}_{-0.800}$
	+3%/-3%	+1%/-5%	+94%/-94%	+33%/-11%	+14%/-14%	+28%/-52%
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 006632383-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-18 ± 3	$0.69^{+0.21}_{-0.20}$	2899^{+205}_{-157}	5269^{+974}_{-638}	$6.932^{+7.885}_{-2.999}$
Alt.	9 ± 3	$0.96^{+0.25}_{-0.23}$	2895^{+228}_{-155}	-4133^{+287}_{-409}	$-1.727^{+0.720}_{-1.385}$

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 $A_{\text{obs}} \gg 1.0$

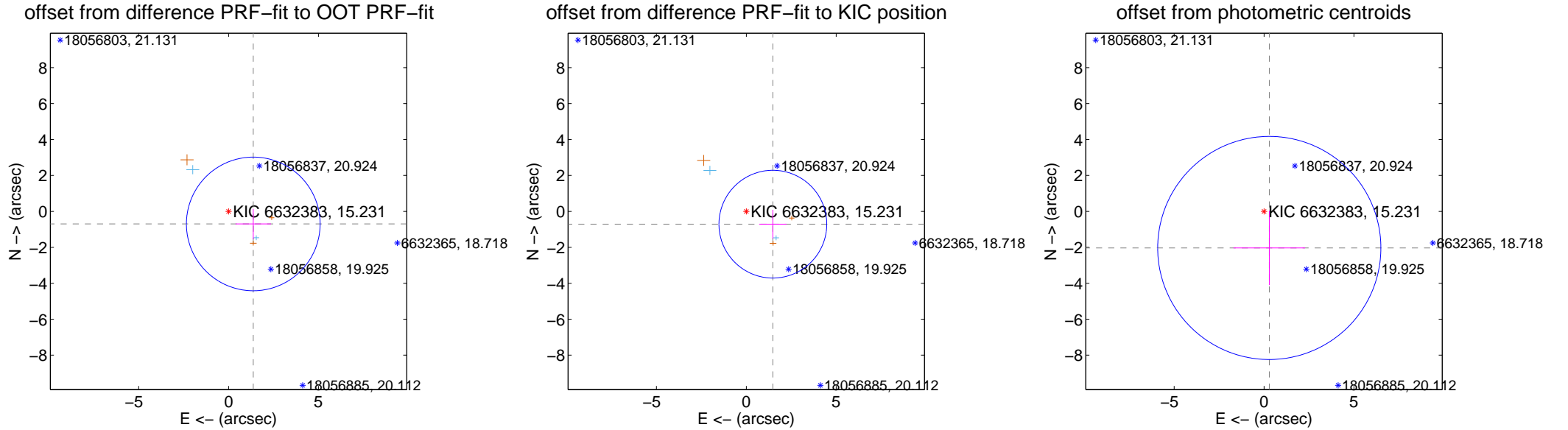
DV Centroid Data

Supplemental centroid analysis for 006632383-01. Kepler magnitude: 15.23. Transit SNR 7.71

There are 2 quarters with good PRF difference image offsets

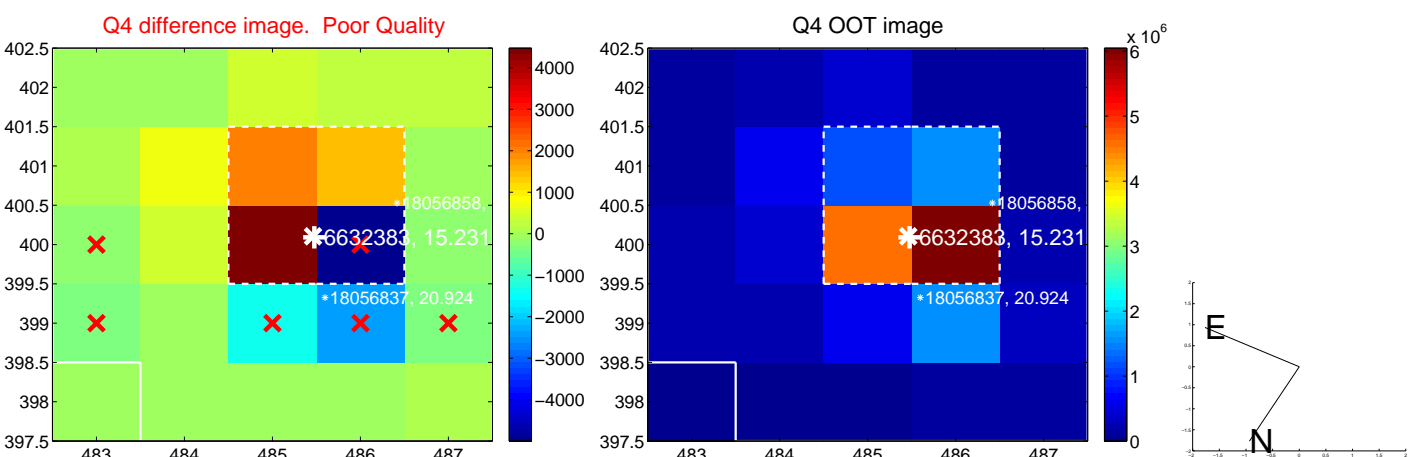
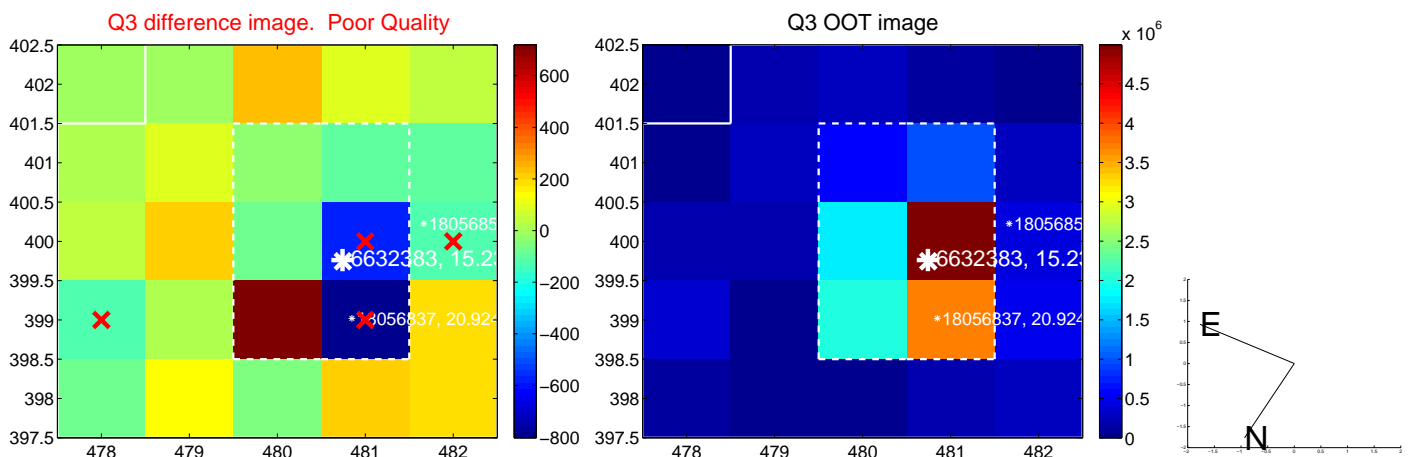
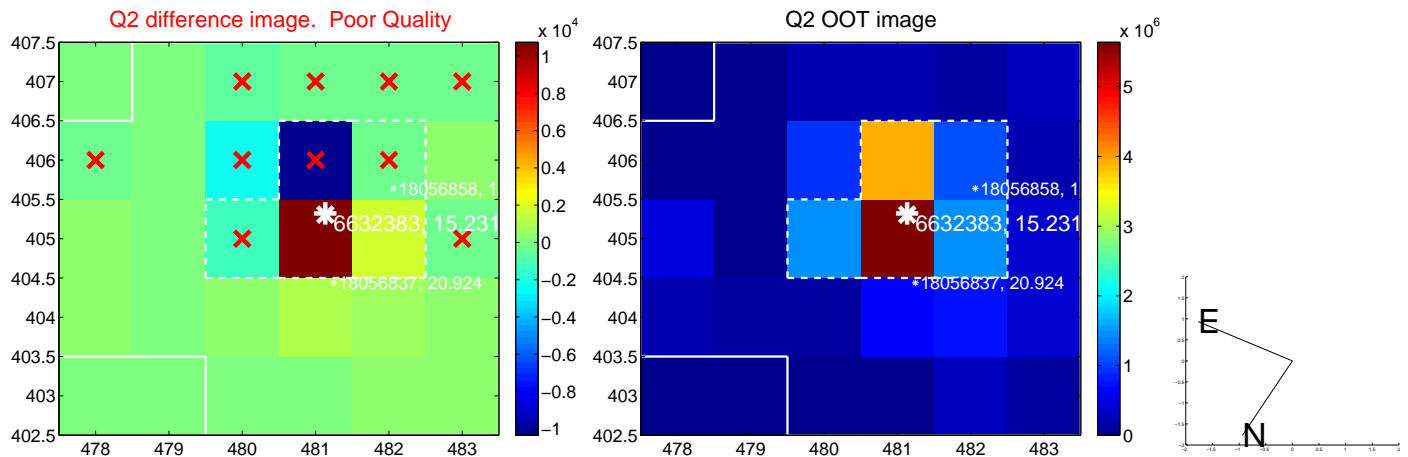
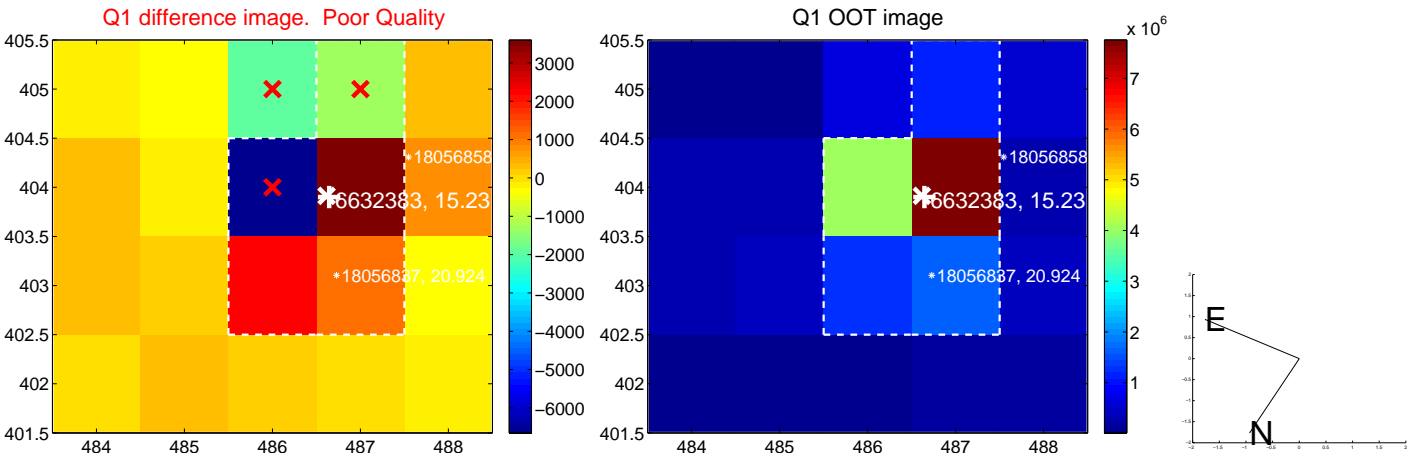
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.541 ± 1.240	1.24	-1.374 ± 0.988	-0.697 ± 0.843
PRF-fit source offset from KIC position	1.639 ± 0.999	1.64	-1.477 ± 0.760	-0.711 ± 0.796
photometric centroid source offset	2.06 ± 2.07	0.99	-0.29 ± 1.99	-2.03 ± 2.07

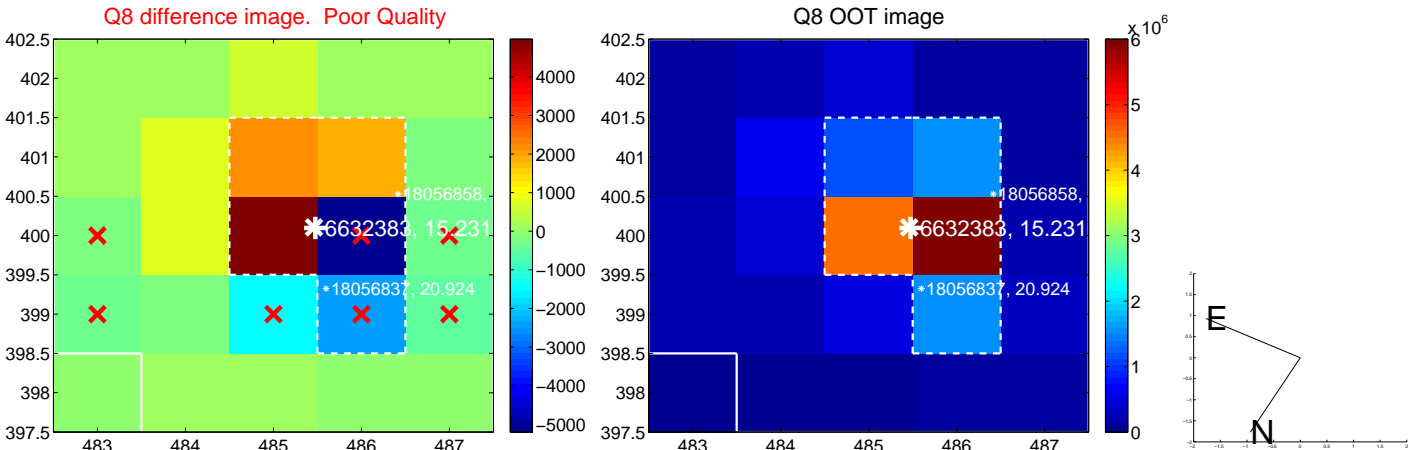
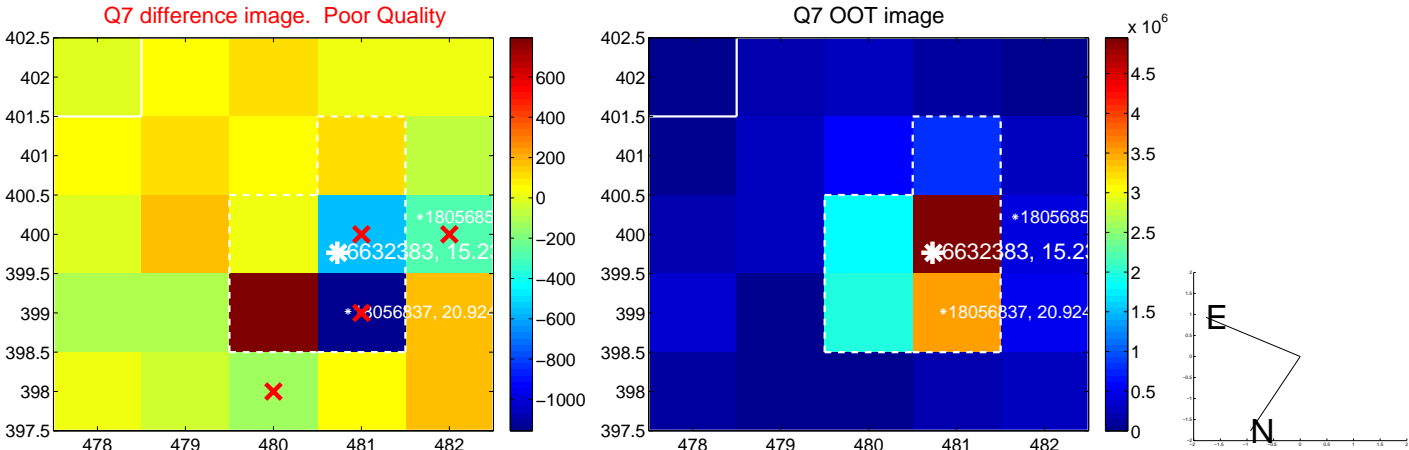
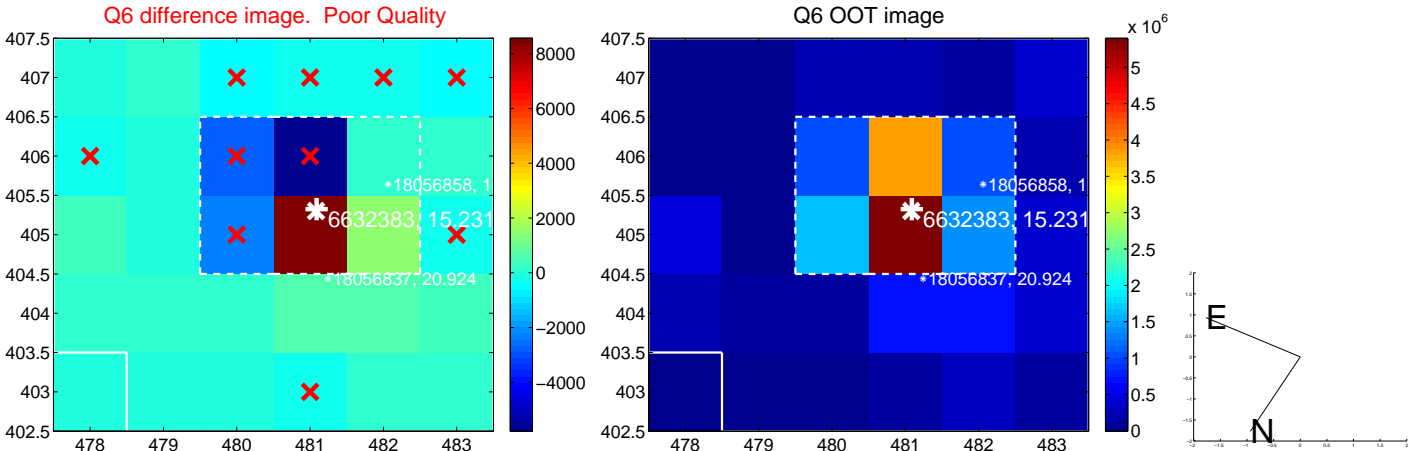
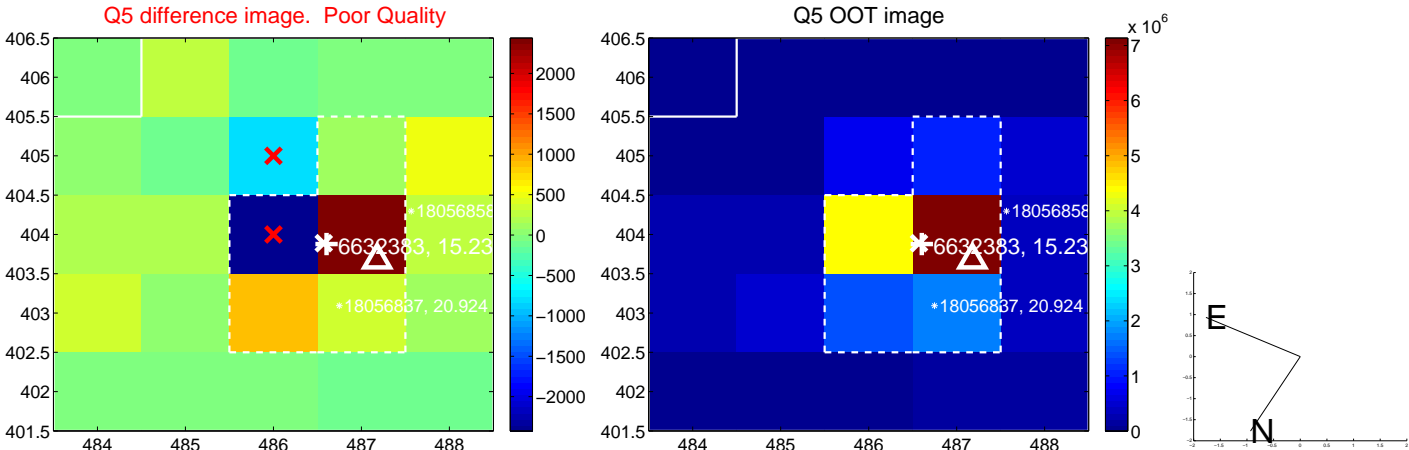


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

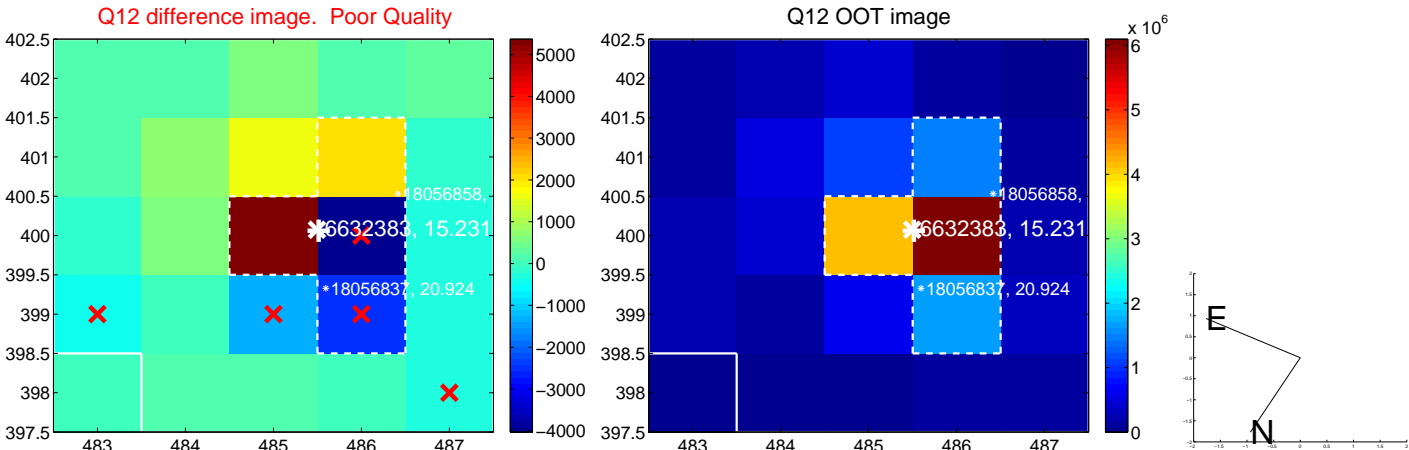
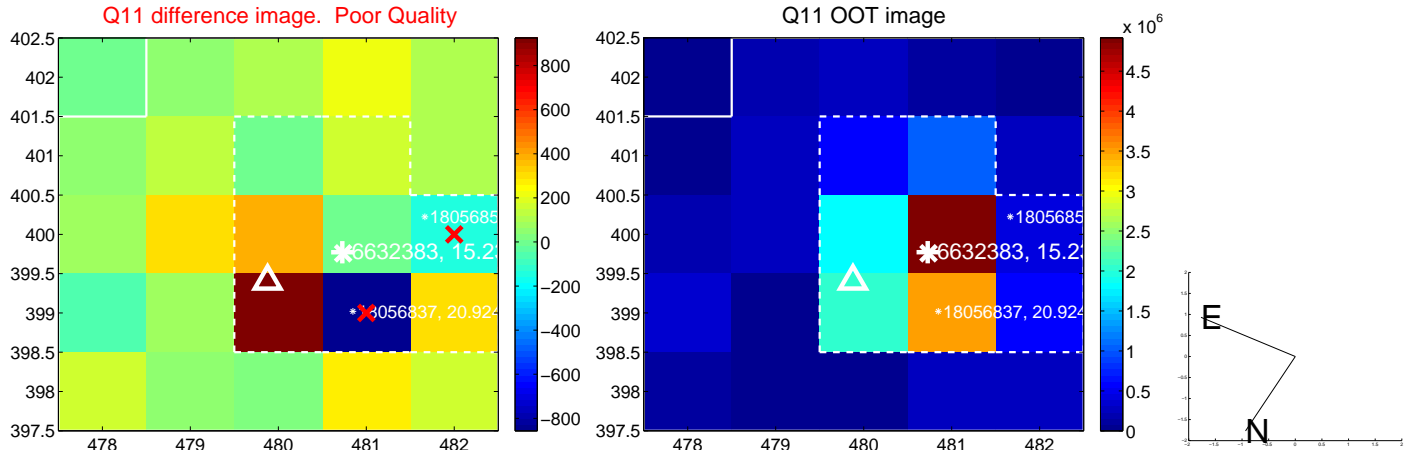
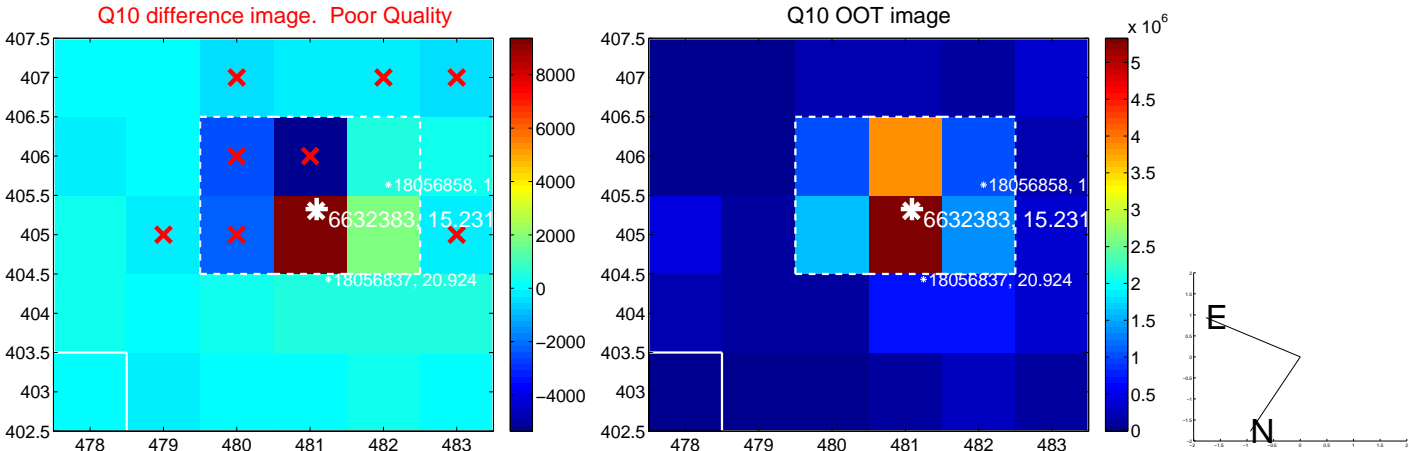
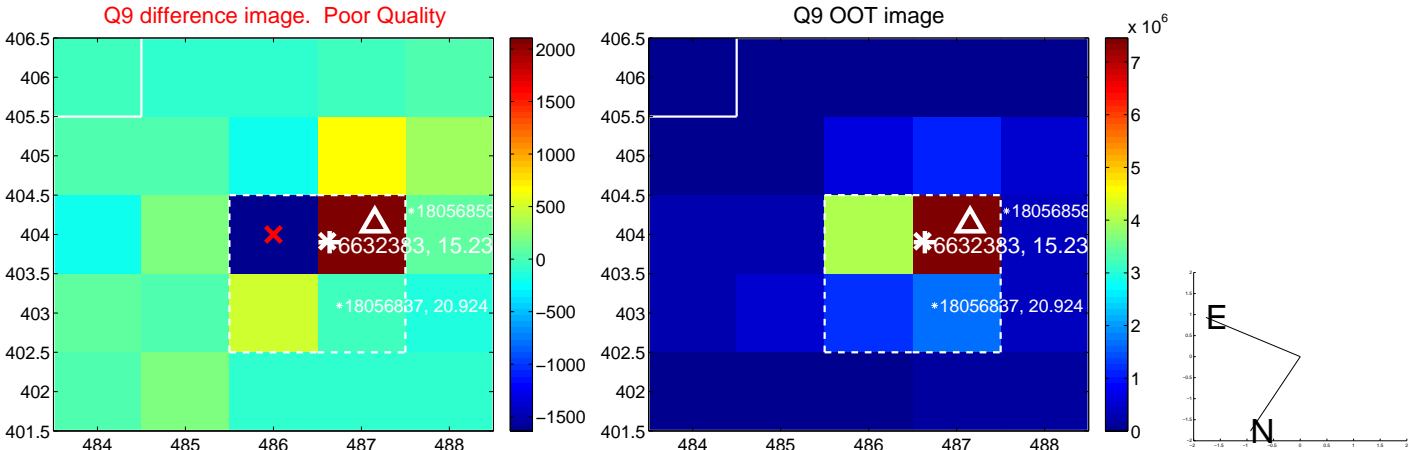
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



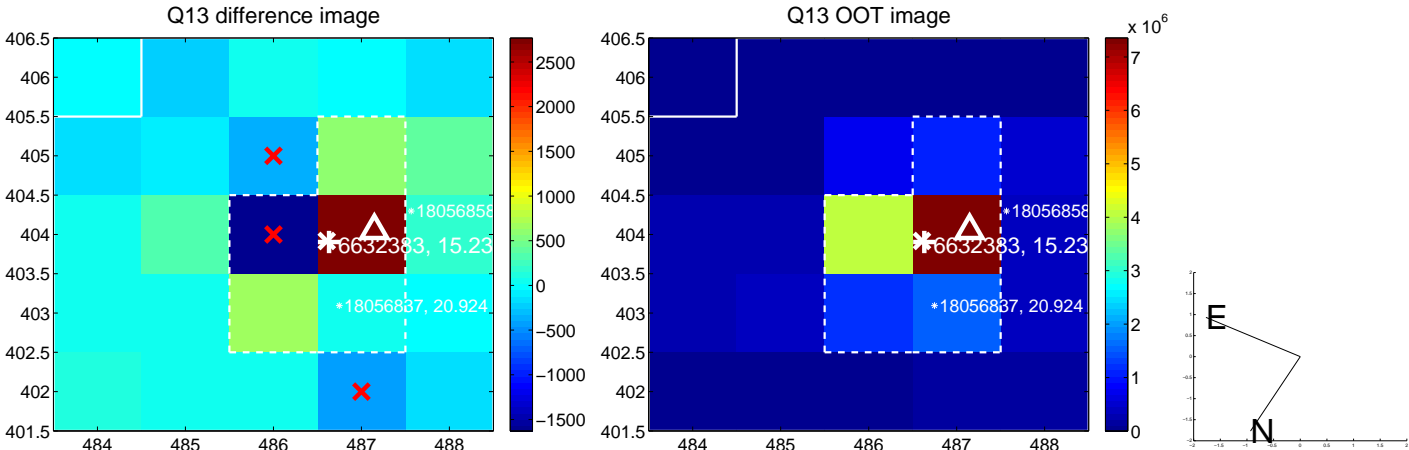
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



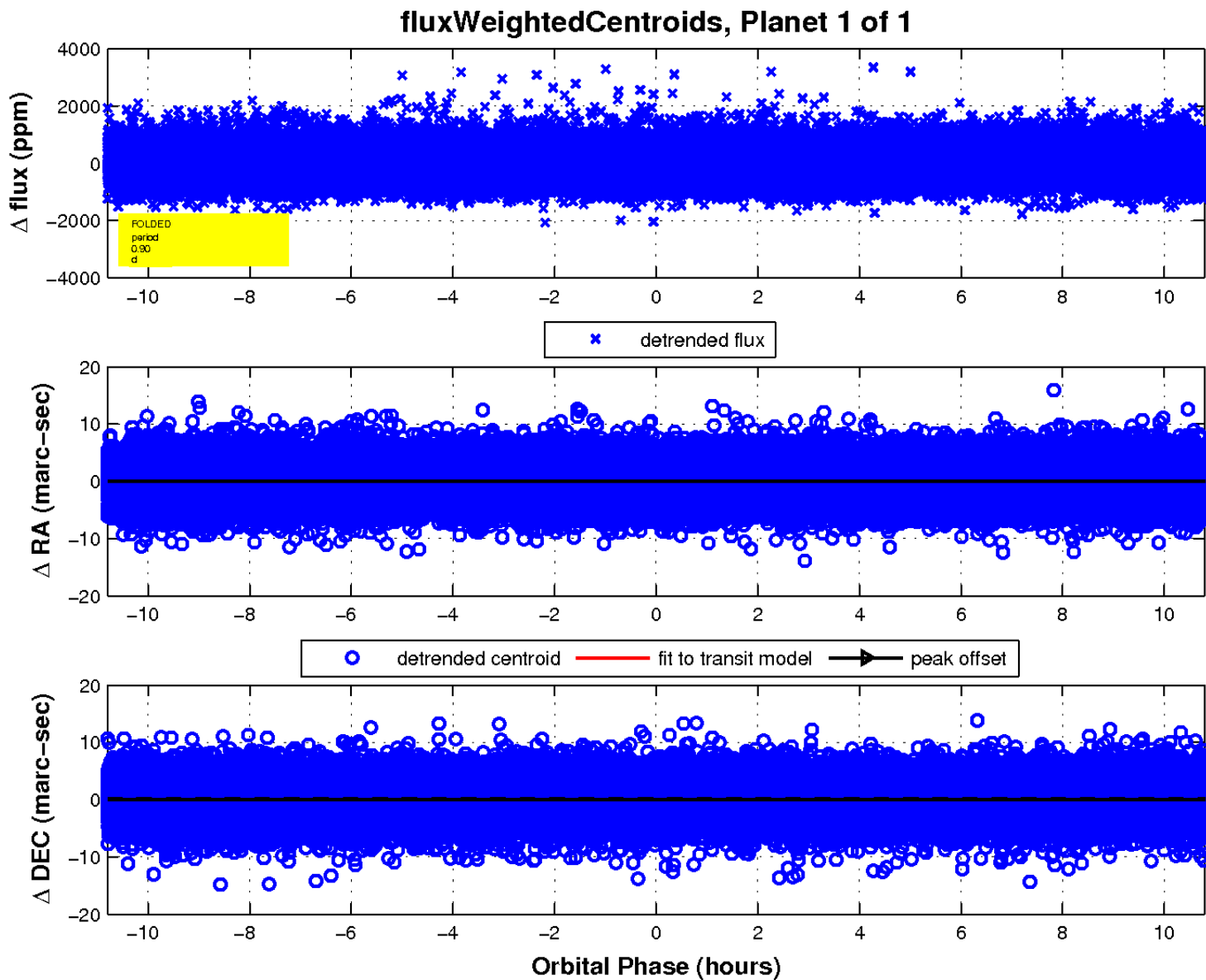
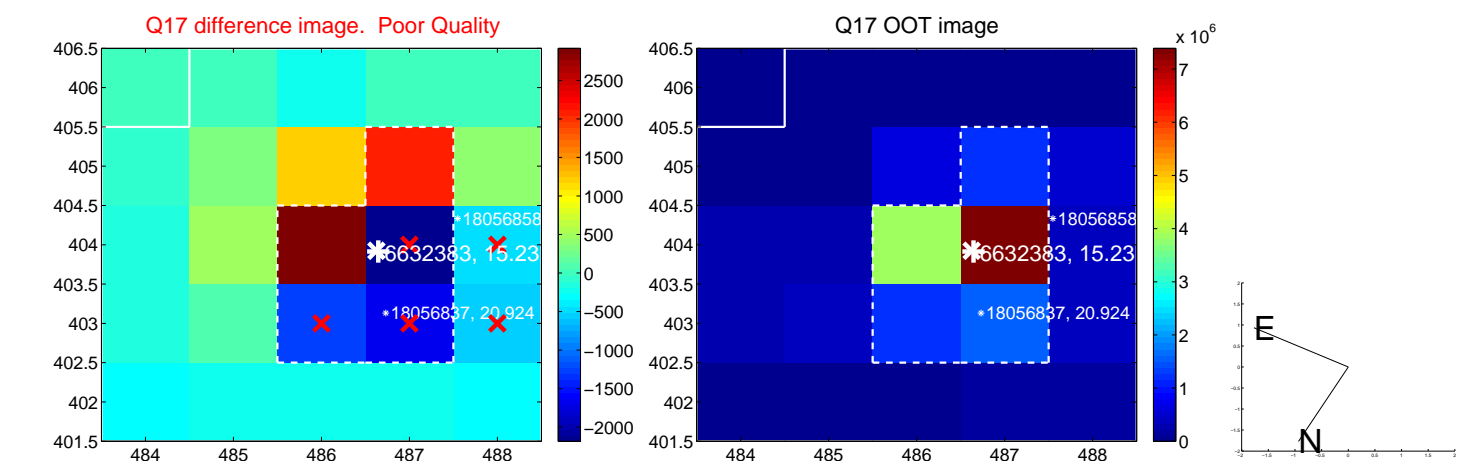
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

