

KIC 008324305

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})
008324305-01	OBS	No	0.537529	131.952681	3.7	4.793	8.0	2.0	6.63	6715	1.33	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008324305-01	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.

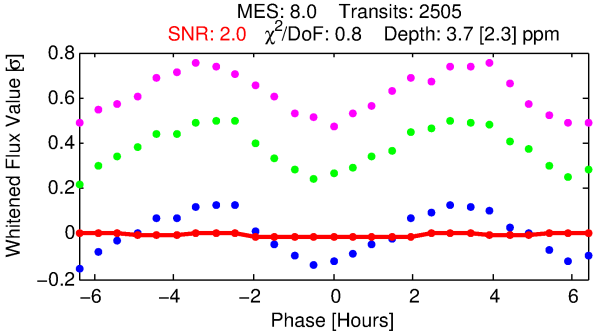
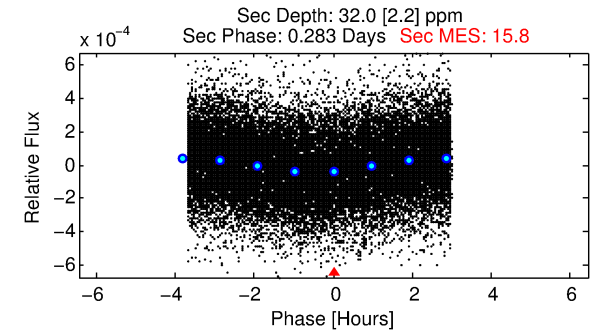
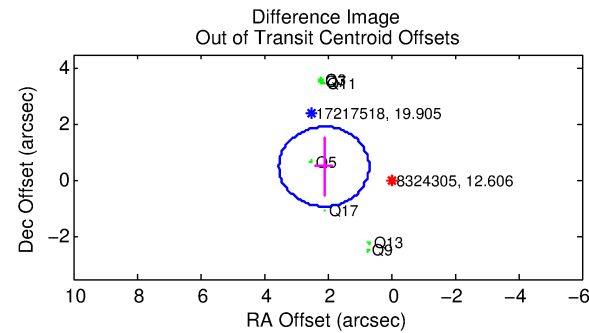
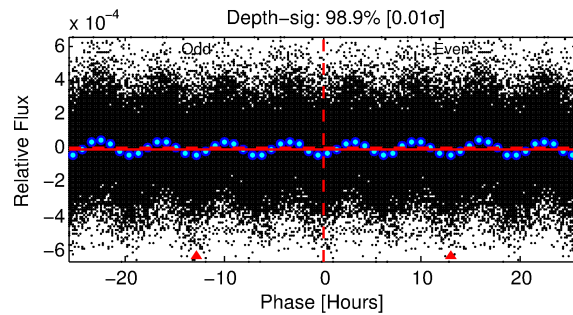
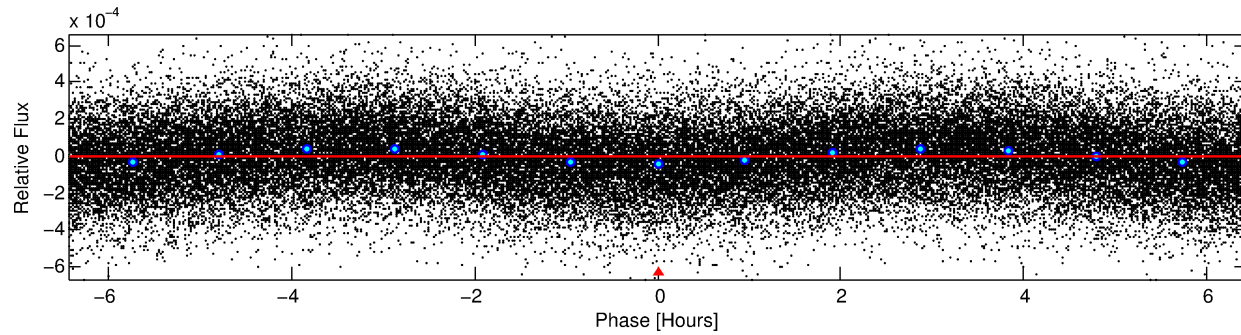
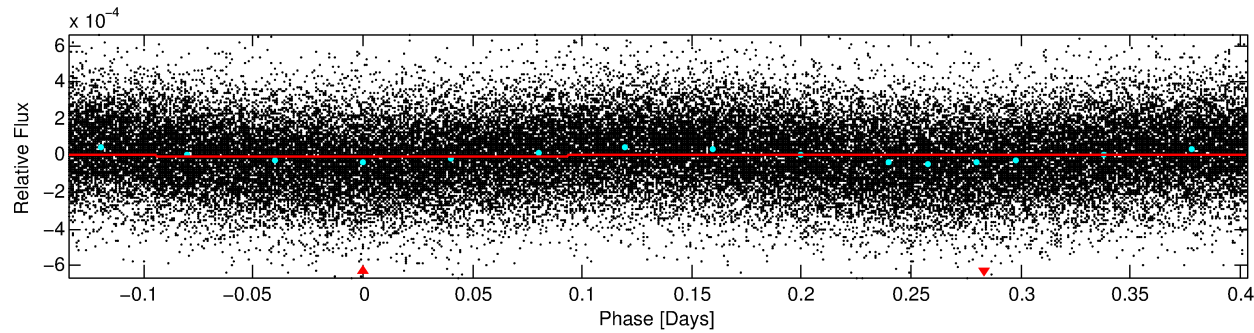
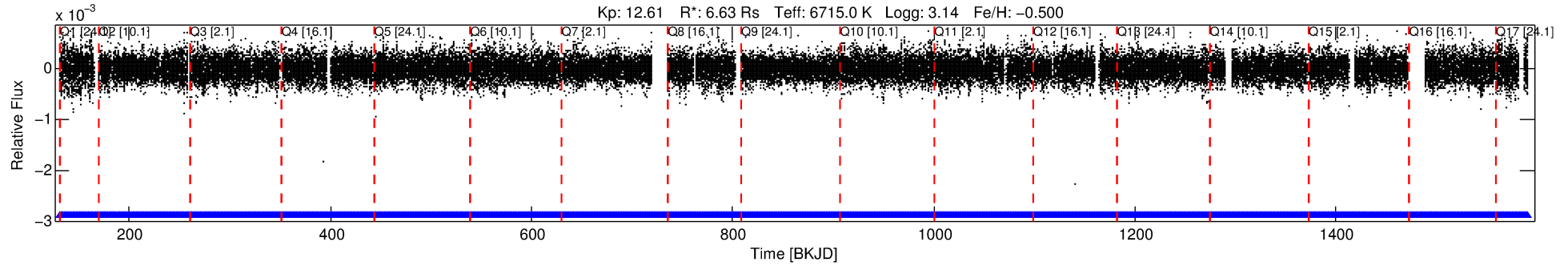
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008324305-01

No Significant Match Found

DV One-Page Summary

KIC: 8324305 Candidate: 1 of 1 Period: 0.538 d



DV Fit Results:

Period = 0.53753 [0.00005] d
Epoch = 131.9527 [0.0136] BKJD
Rp/R* = 0.0018 [0.0039]
a/R* = 1.07 [1.64]
b = 0.49 [19.09]
Seff = N/A
Teq = N/A
Rp = 1.33 [2.92] Re
a = N/A
Ag = N/A
Teffp = N/A

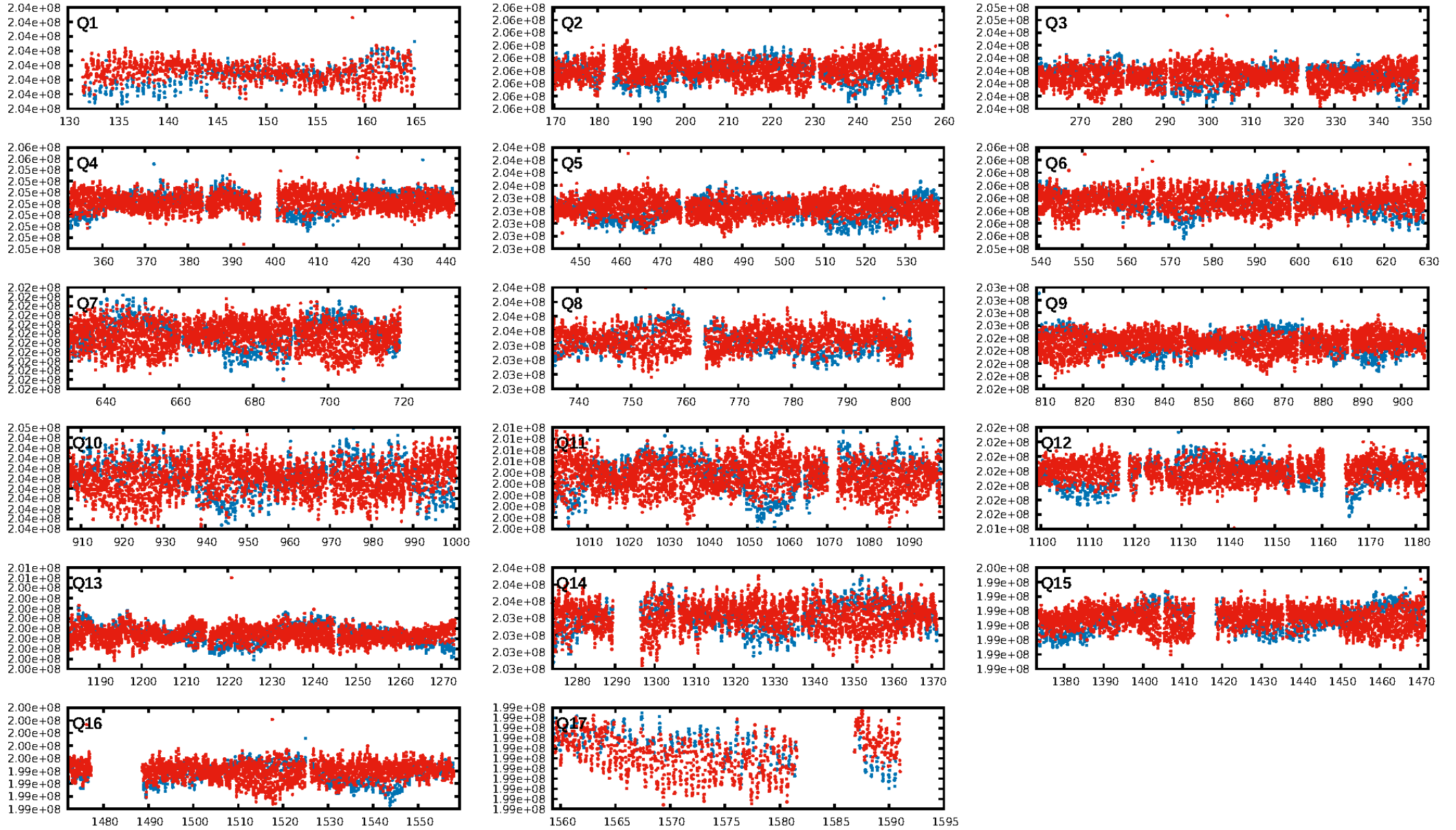
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2392/2392]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.172 arcsec [4.60 σ]
KicOffset-rm: 2.290 arcsec [4.34 σ]
OotOffset-st: 0/3/0/4 [7]
KicOffset-st: 0/3/0/4 [7]
DiffImageQuality-fgm: 0.14 [1/7]
DiffImageOverlap-fno: 1.00 [17/17]

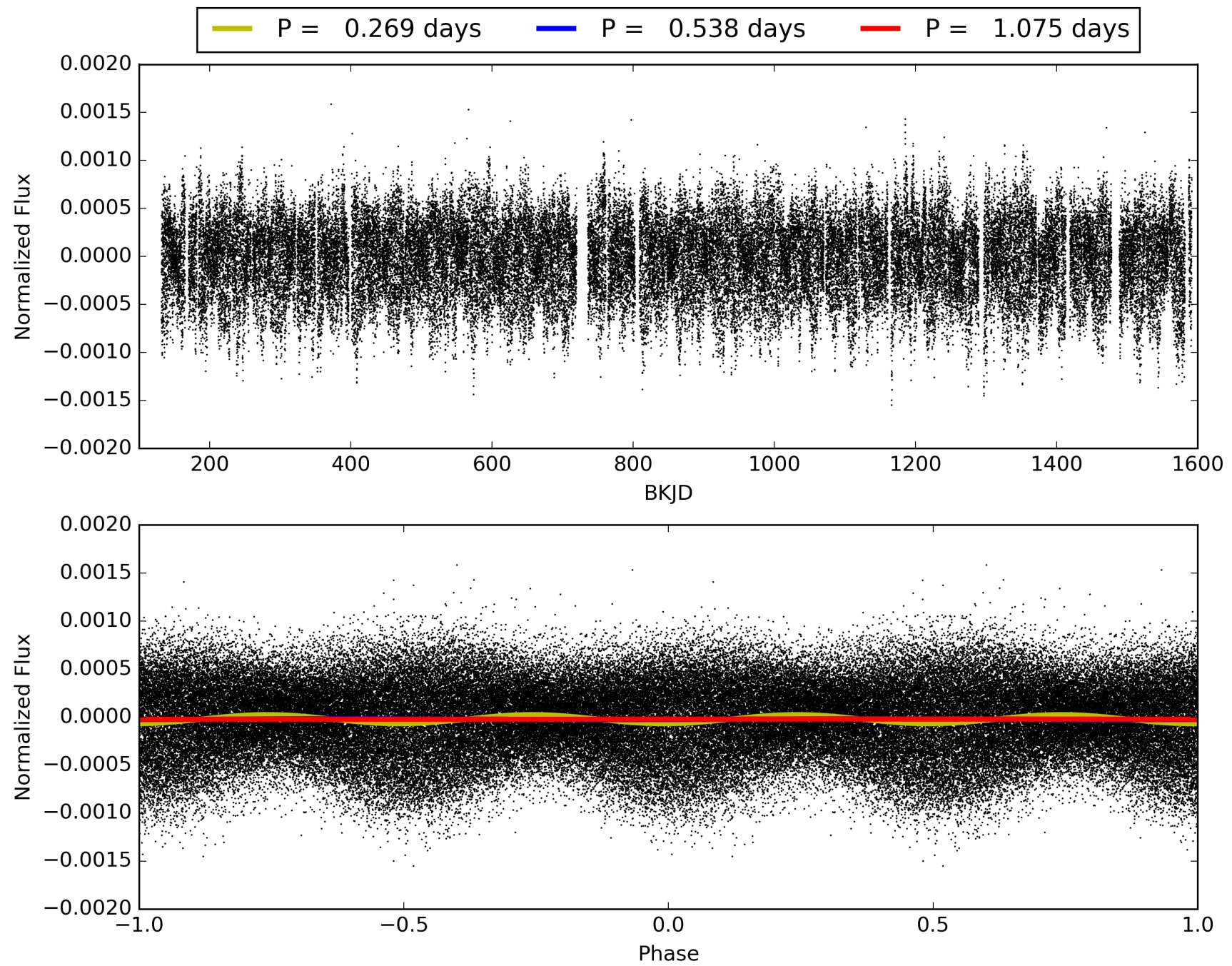
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 20:27:54 Z

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

TCE 008324305-01, PDC Light Curves

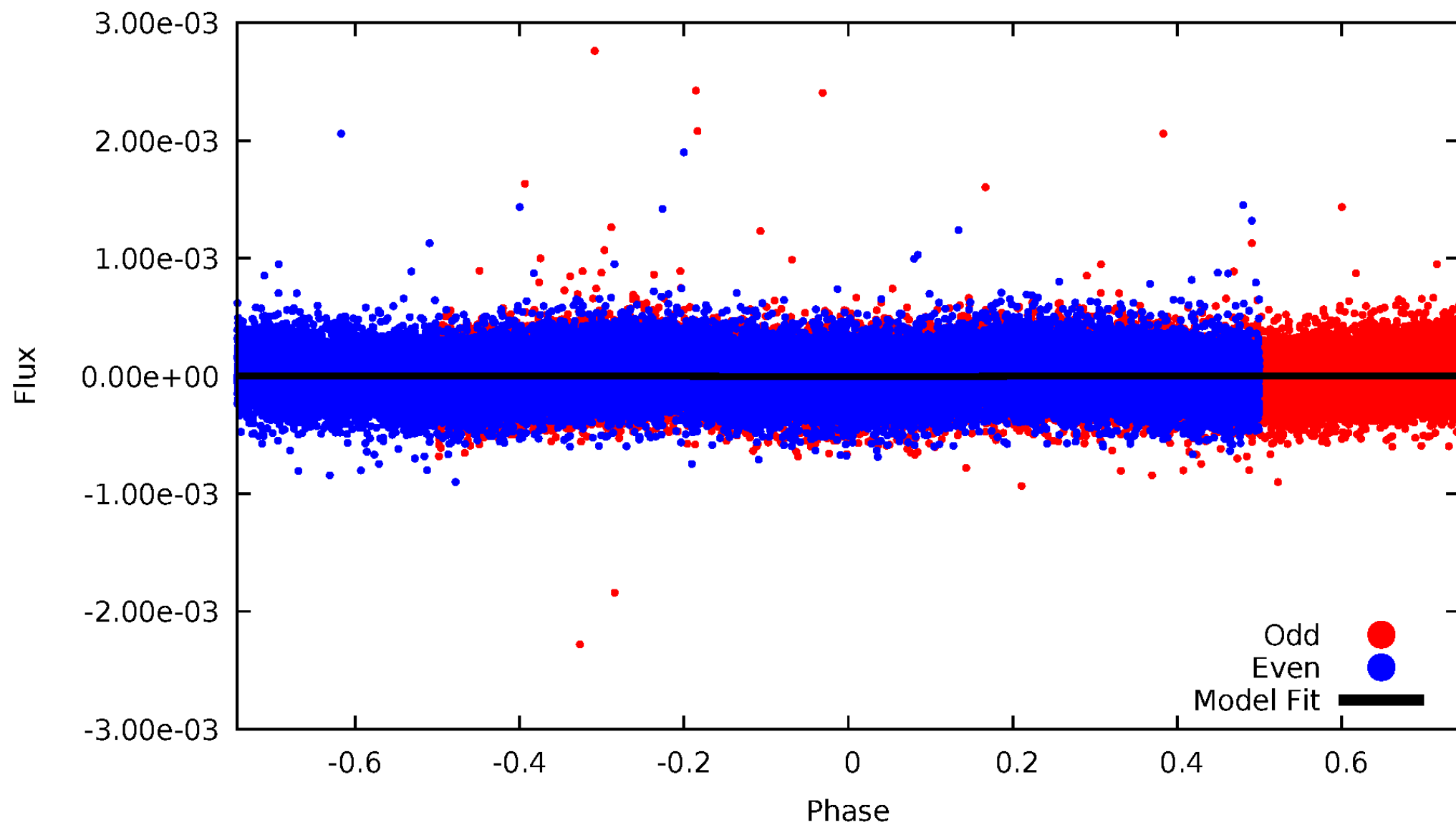


TCE 008324305-01



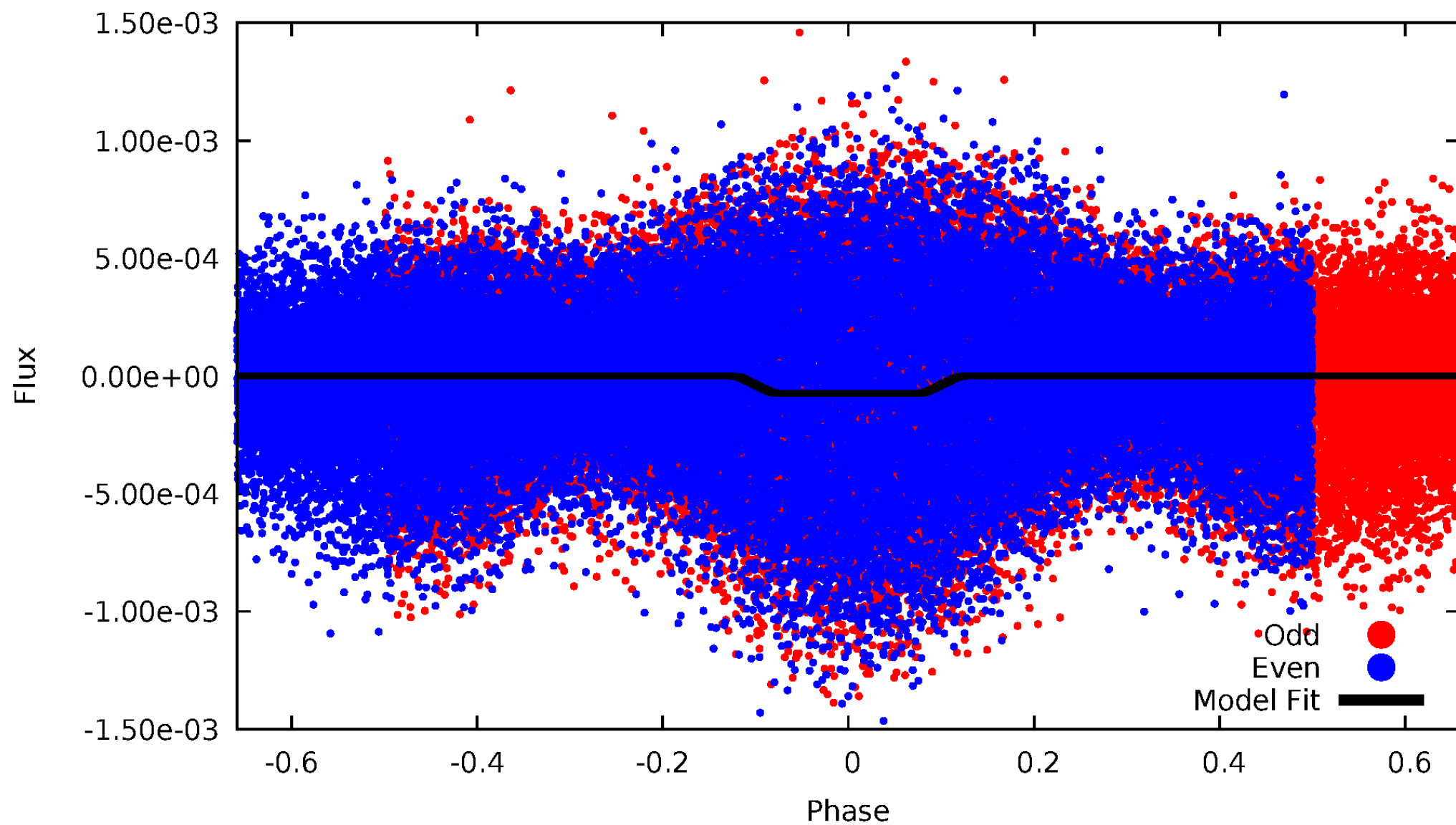
DV Odd/Even

TCE 008324305-01

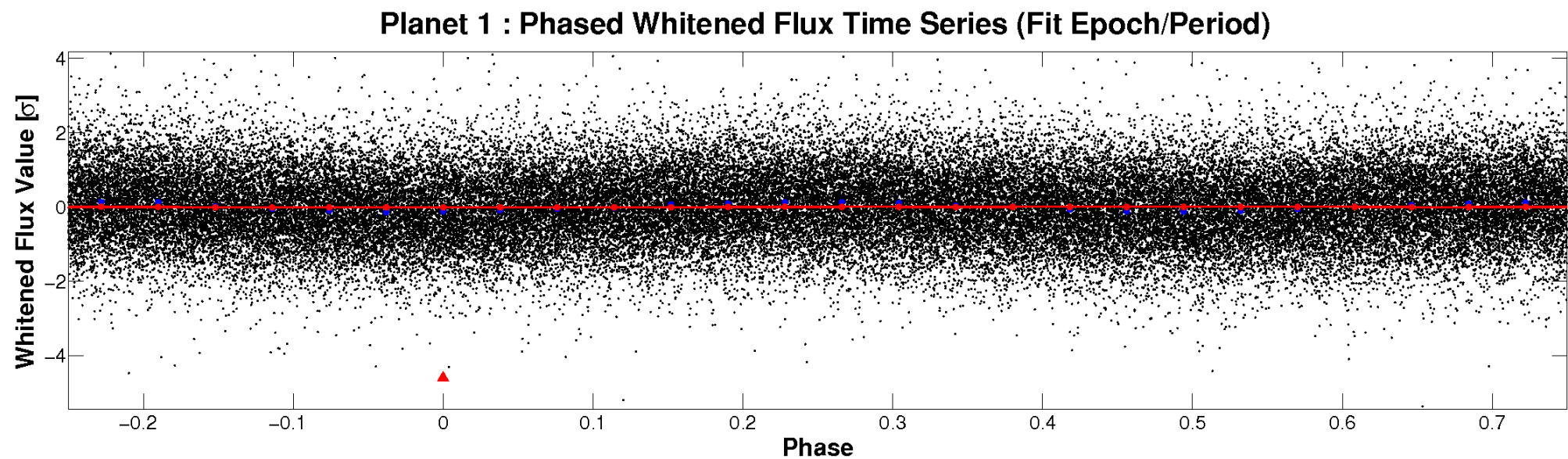
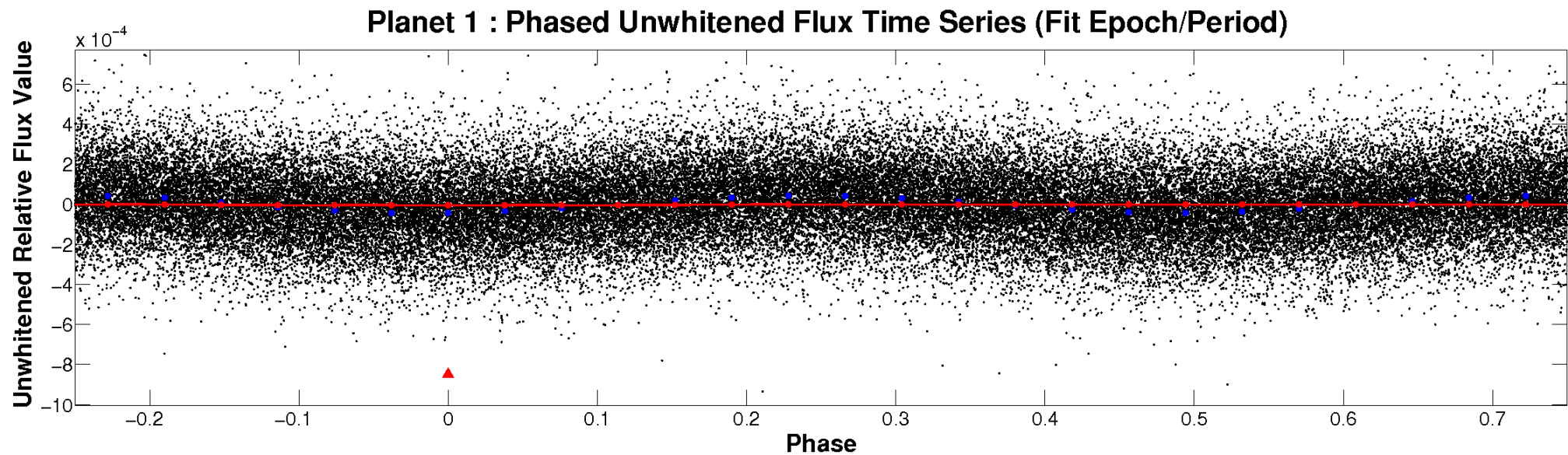


ALT Odd/Even

TCE 008324305-01

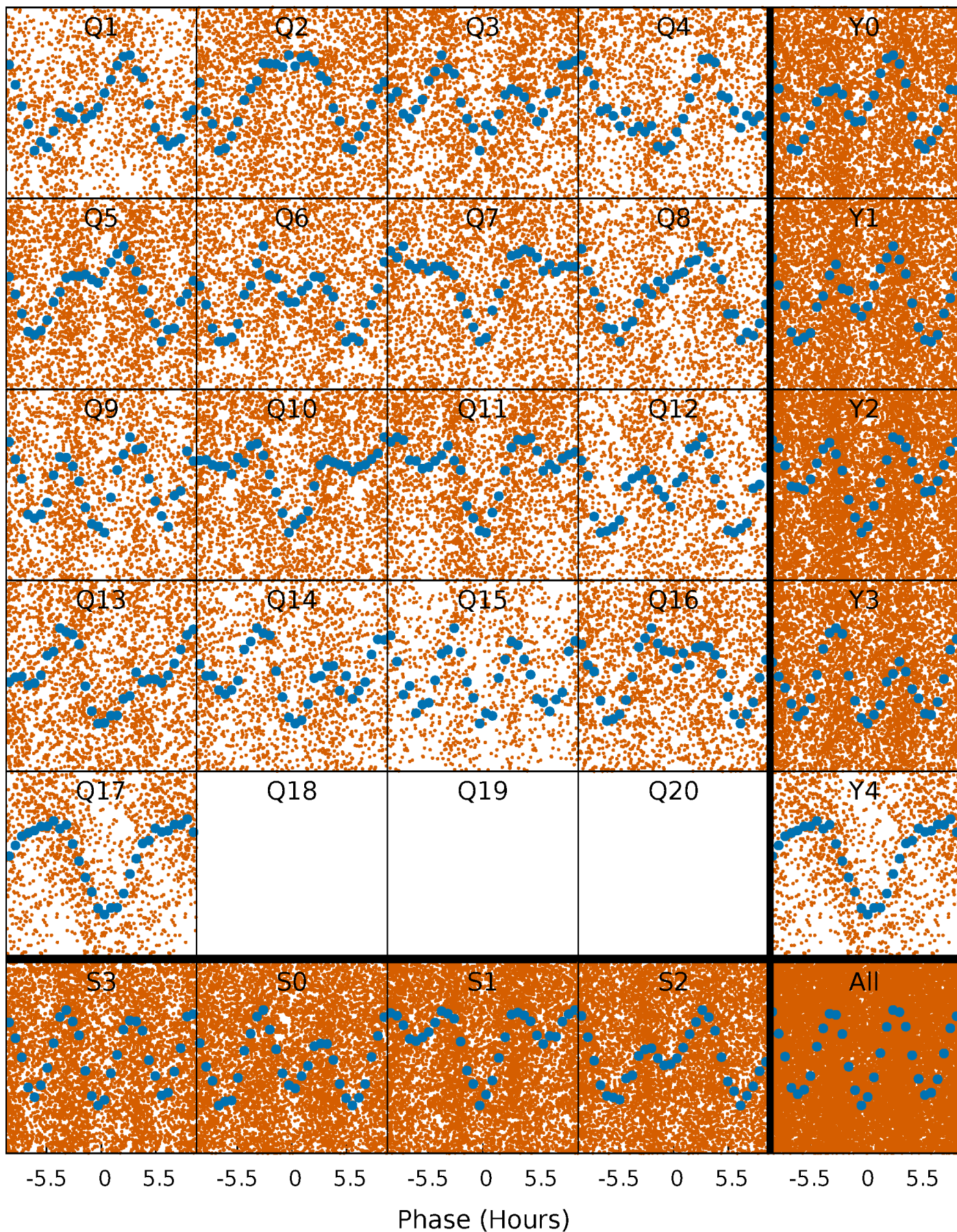


Non-Whitened Vs. Whitened Light Curve



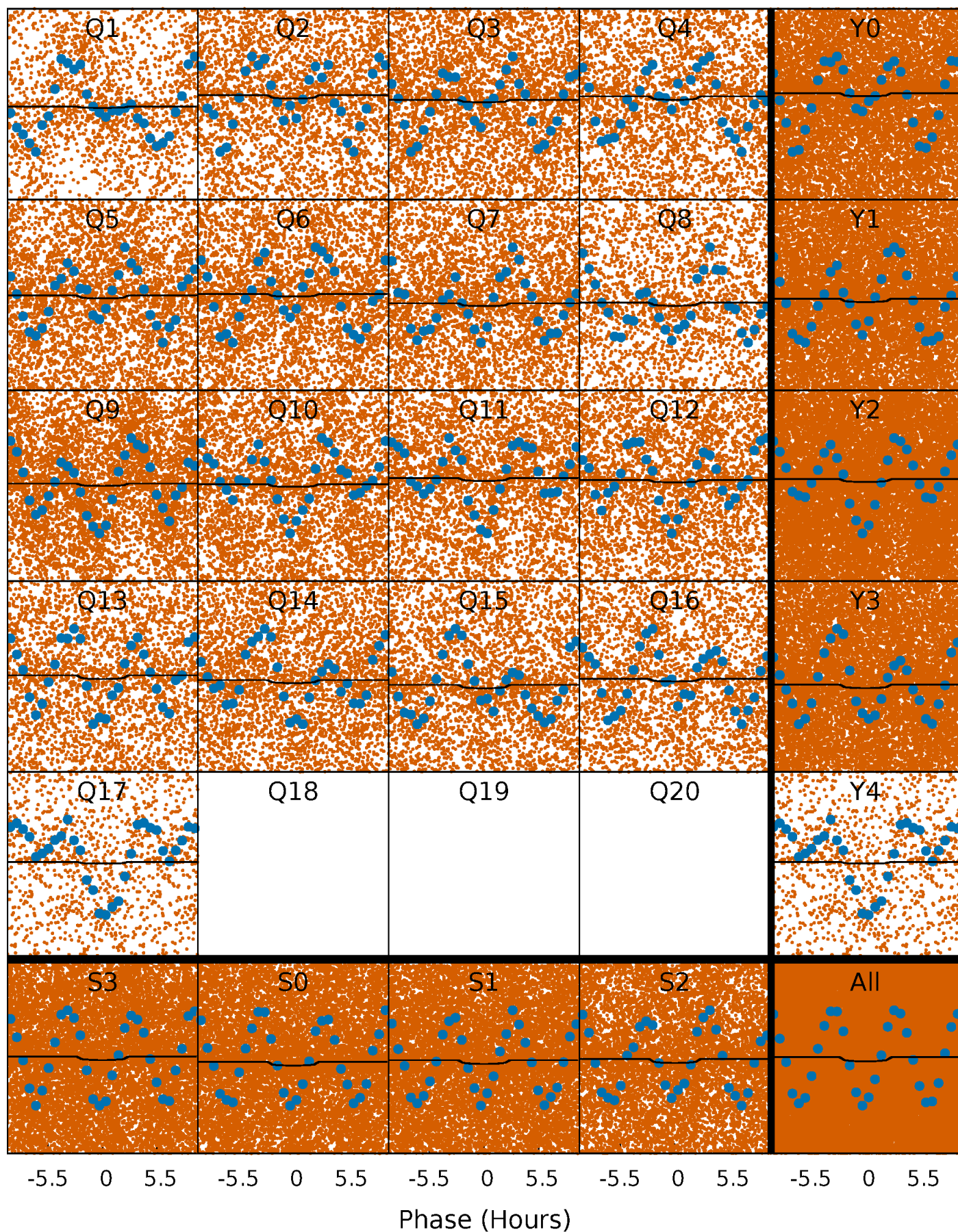
PDC Quarter-Phased Transit Curves

TCE 008324305-01 P= 0.537529 Days $T_0=131.952681$ (BKJD)



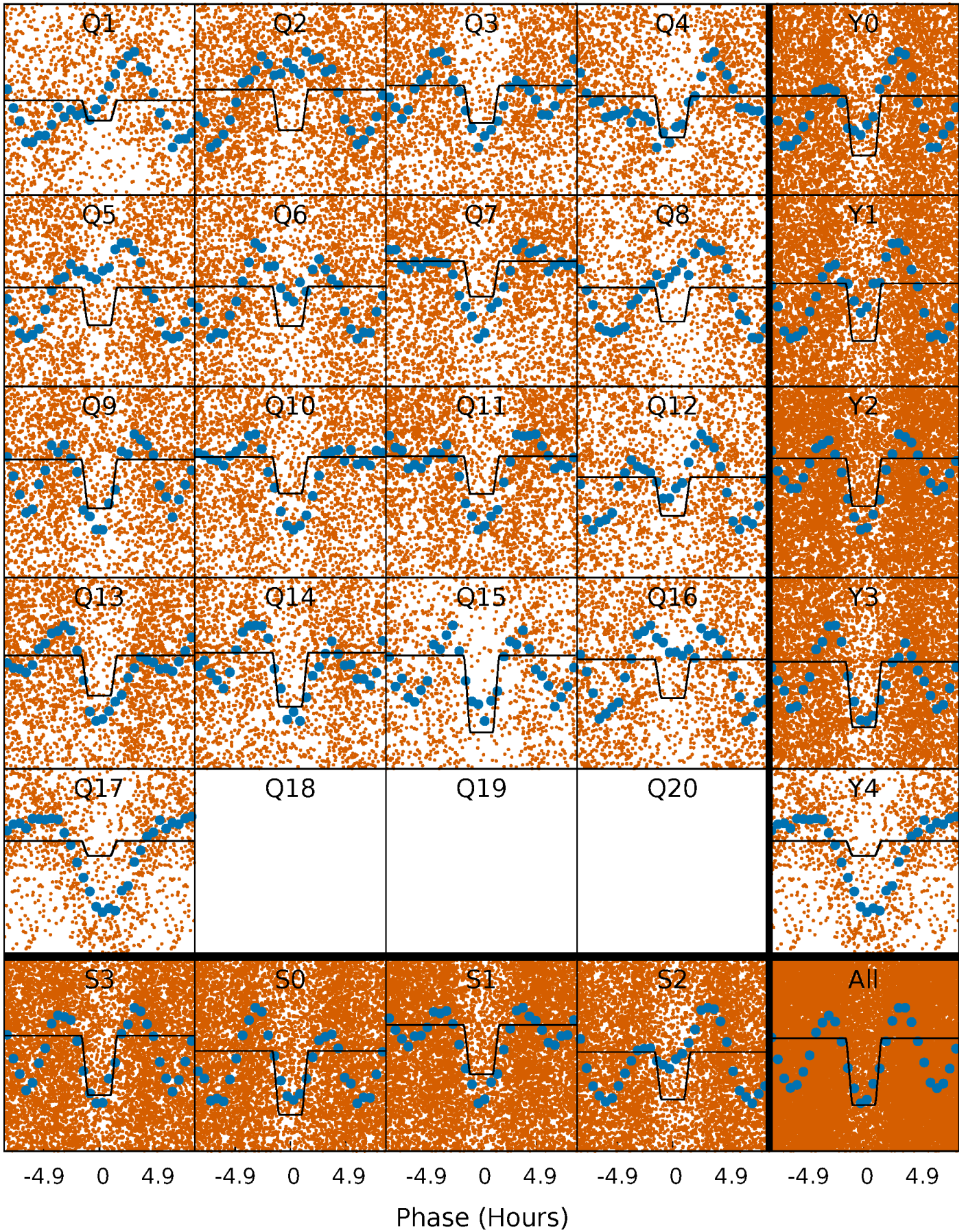
DV Quarter-Phased Transit Curves

TCE 008324305-01 P= 0.537529 Days $T_0=131.952681$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

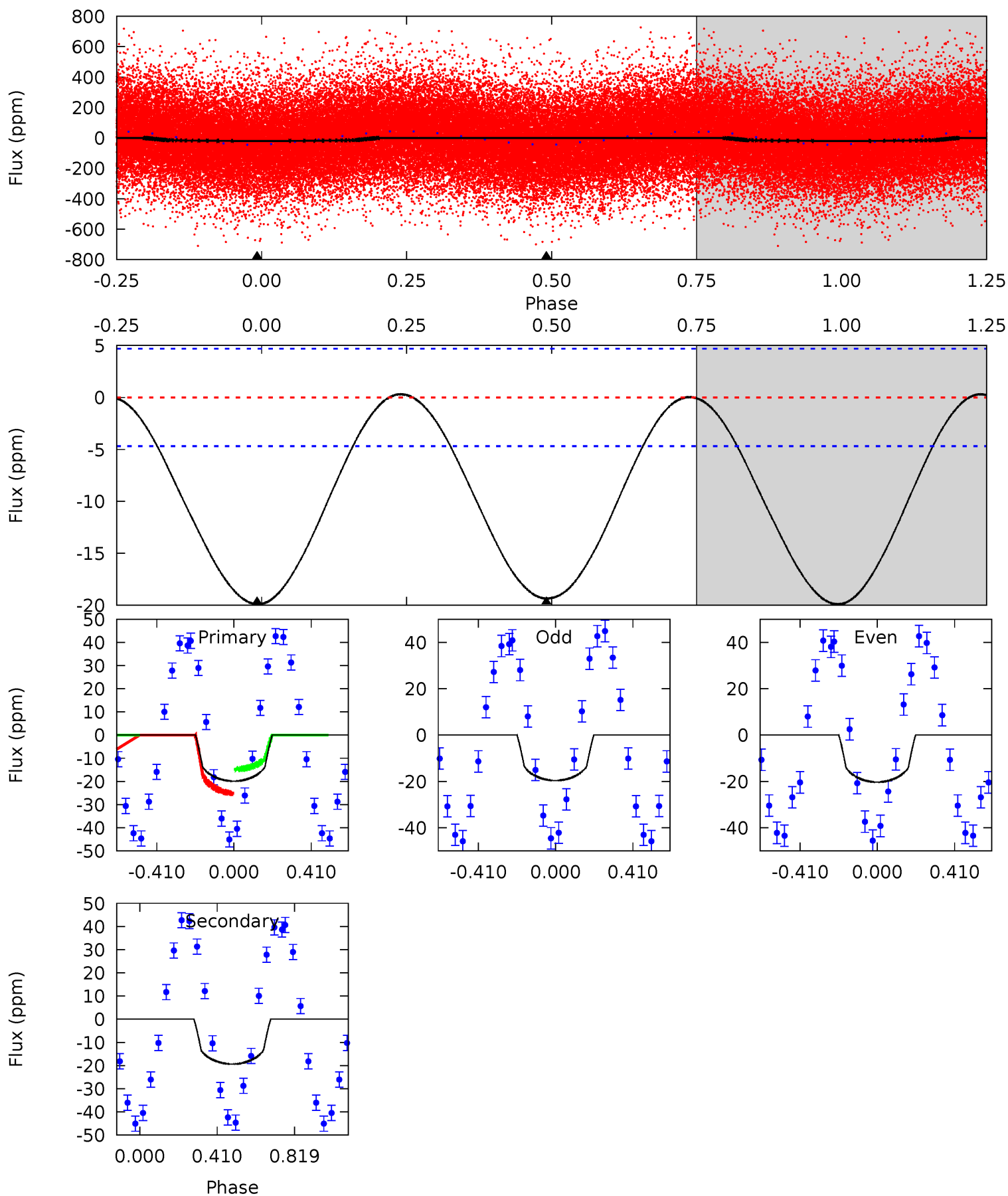
TCE 008324305-01 P= 0.537532 Days $T_0=131.941667$ (BKJD)



DV Model-Shift Uniqueness Test

008324305-01, P = 0.537529 Days, E = 131.415152 Days

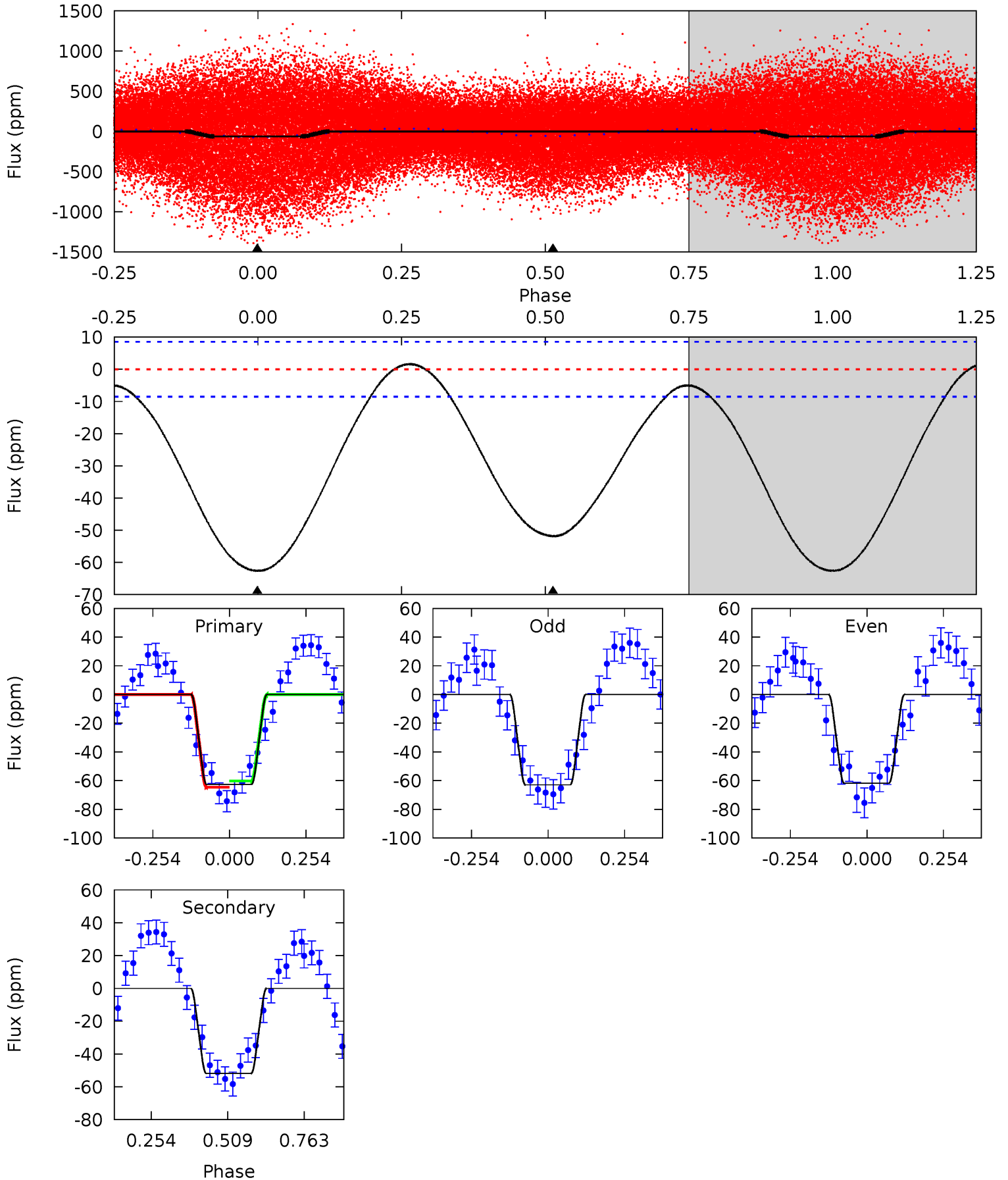
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.1	17.6	0	0	4.26	0.82	0.20	18.1	18.1	17.6	17.6	0.32	1.10	0.02	4.73



Alt Model-Shift Uniqueness Test

008324305-01, P = 0.537532 Days, E = 131.404135 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.1	26.6	0	0	4.36	1.14	1.57	32.1	32.1	26.6	26.6	0.30	4.31	0.03	0.68



Stellar Parameters For KIC 008324305

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6715^{+160}_{-260}	$3.144^{+0.512}_{-0.128}$	$-0.500^{+0.550}_{-0.200}$	$6.627^{+1.756}_{-3.261}$	$2.233^{+0.321}_{-0.550}$	$0.011^{+0.056}_{-0.004}$
	+2%/-4%	+16%/-4%	+110%/-40%	+26%/-49%	+14%/-25%	+521%/-39%
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 008324305-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-19 ± 1	$2.14^{+2.21}_{-1.47}$	7913^{+700}_{-1083}	6455^{+11861}_{-11844}	$0.630^{+5.819}_{-0.468}$
Alt.	-52 ± 2	$5.40^{+3.39}_{-2.80}$	7859^{+699}_{-1151}	-3768^{+11305}_{-2194}	$0.267^{+0.914}_{-0.158}$

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 $A_{obs} \gg 1.0$

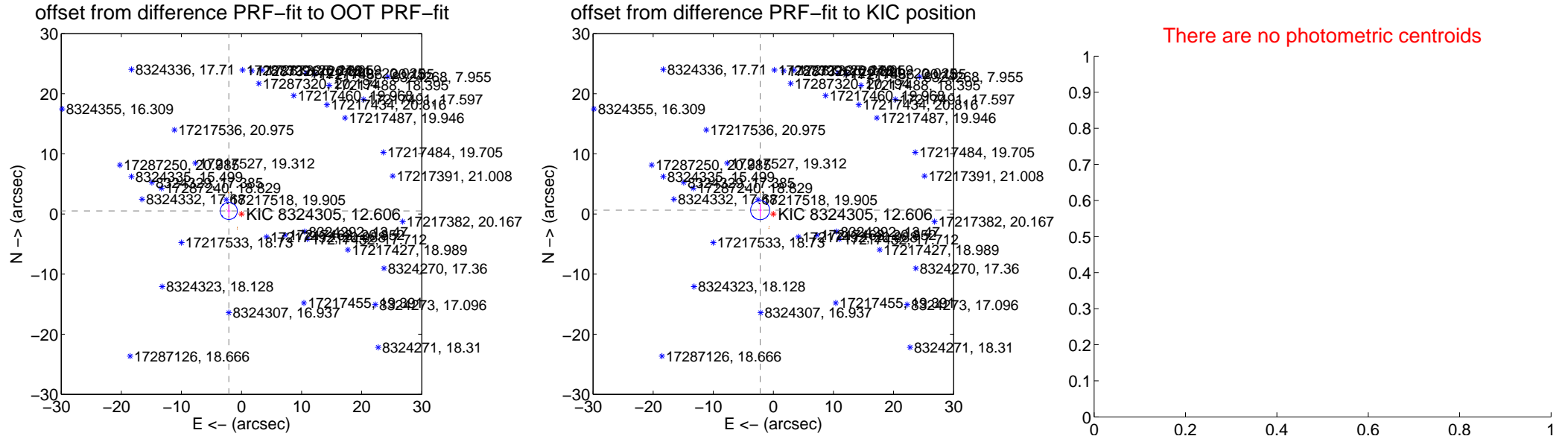
DV Centroid Data

Supplemental centroid analysis for 008324305-01. Kepler magnitude: 12.61. Transit SNR 2.02

There are 1 quarters with good PRF difference image offsets

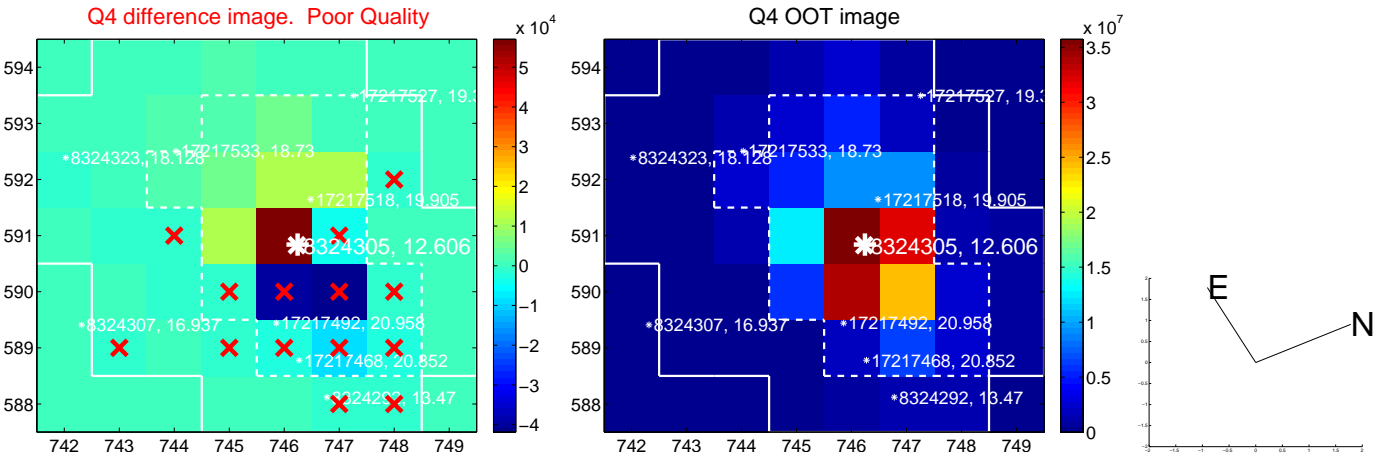
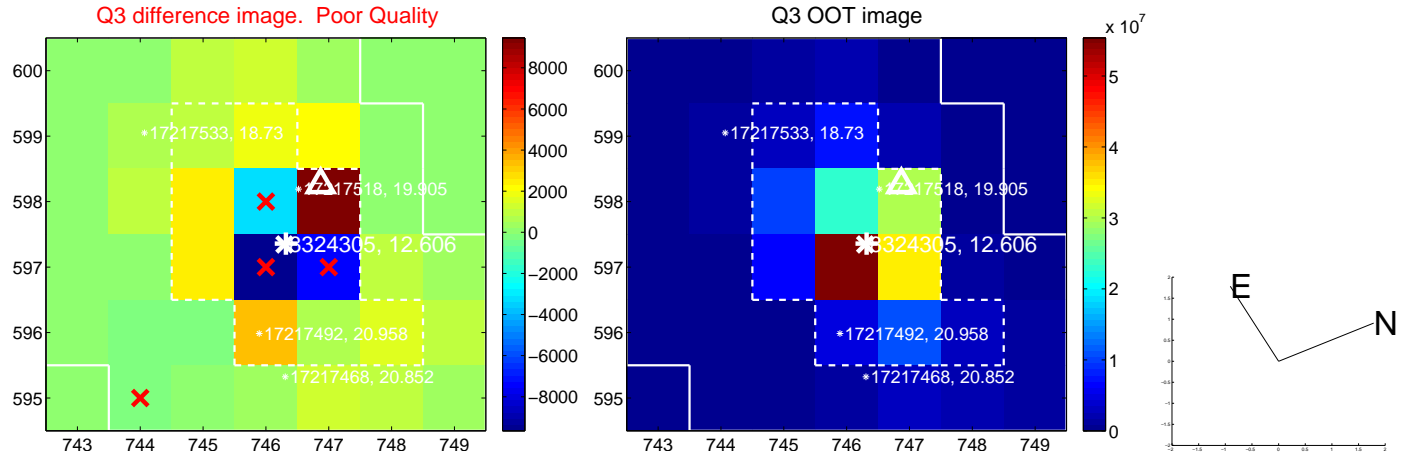
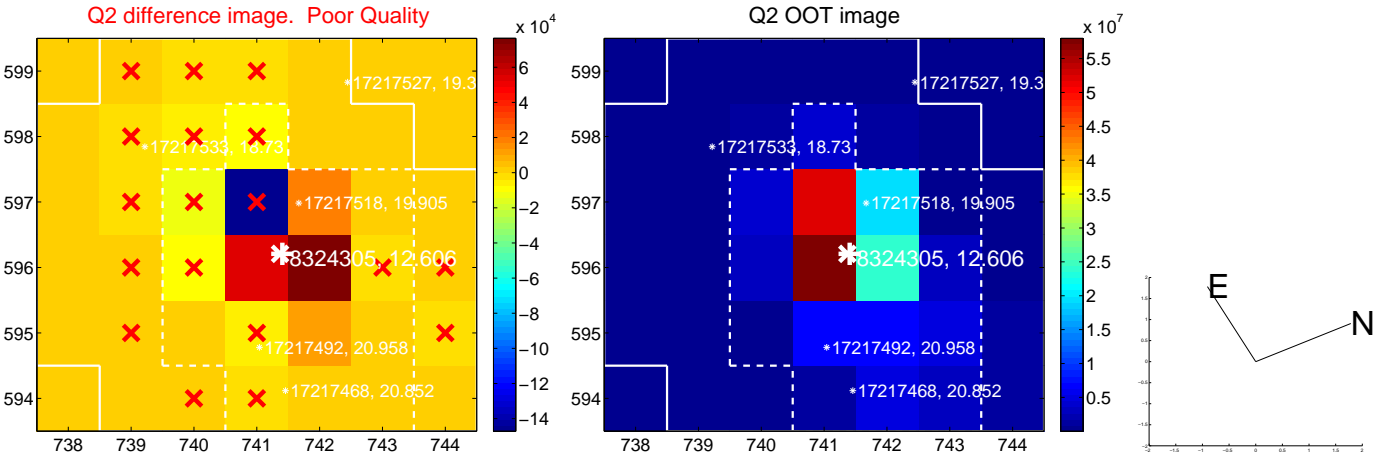
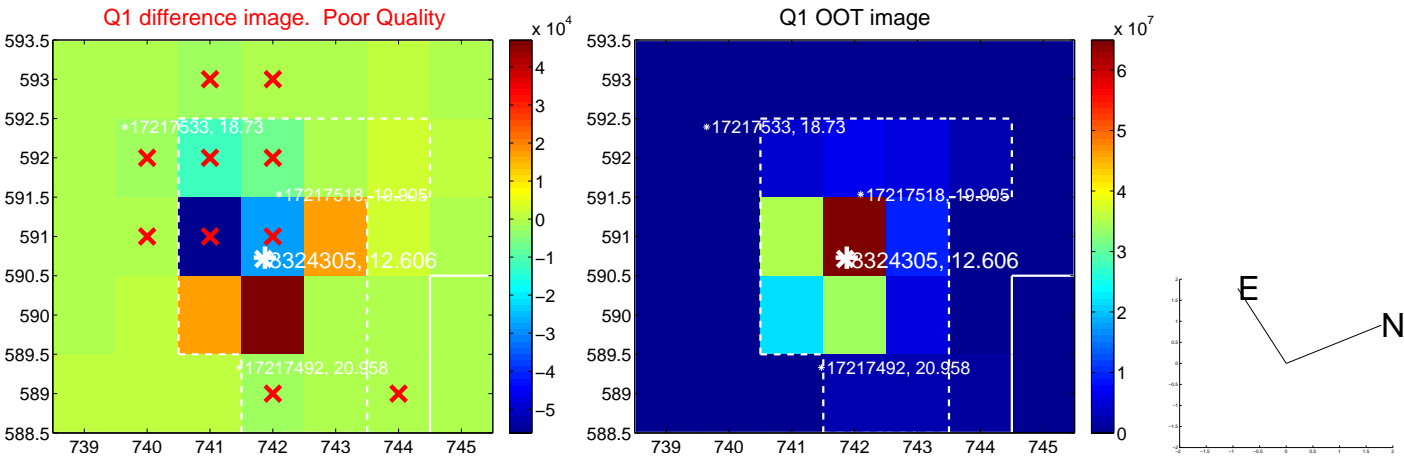
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.172 \pm 0.472	4.60	2.113 \pm 0.272	0.502 \pm 1.025
PRF-fit source offset from KIC position	2.290 \pm 0.528	4.34	2.200 \pm 0.282	0.636 \pm 1.054
photometric centroid source offset	—	—	—	—

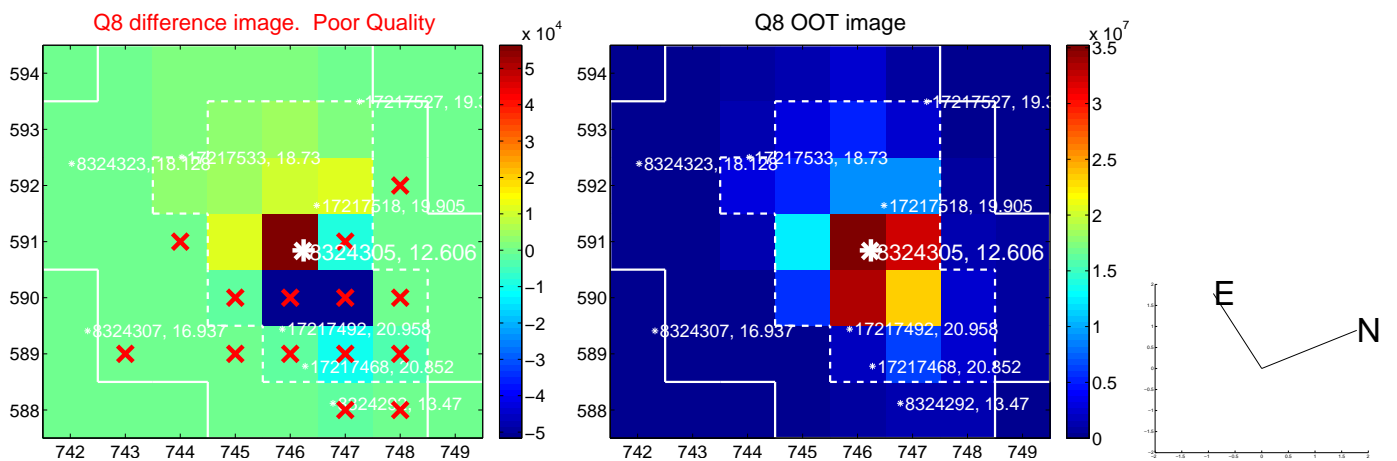
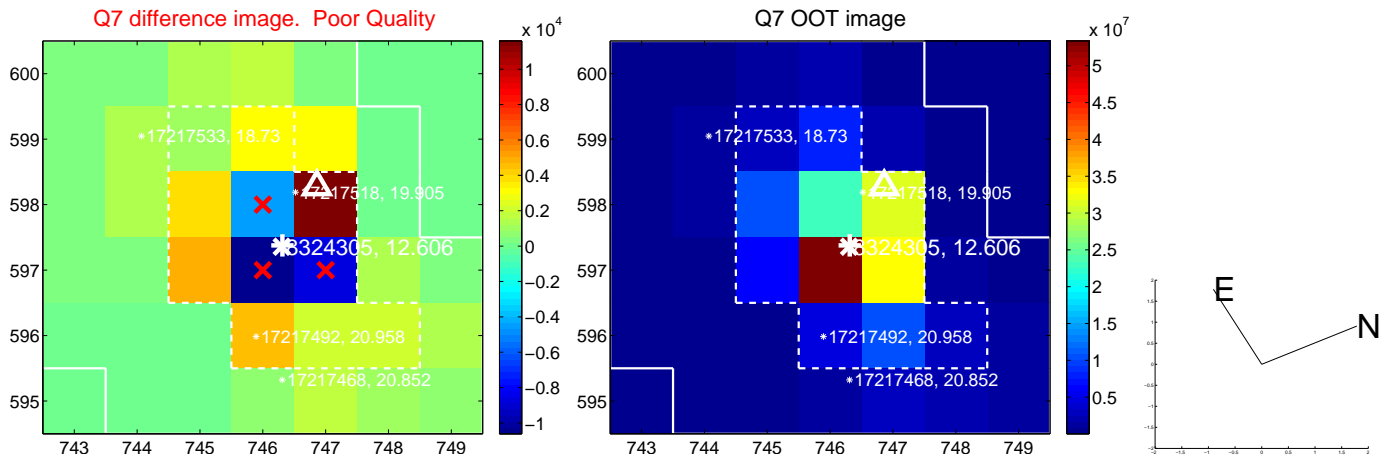
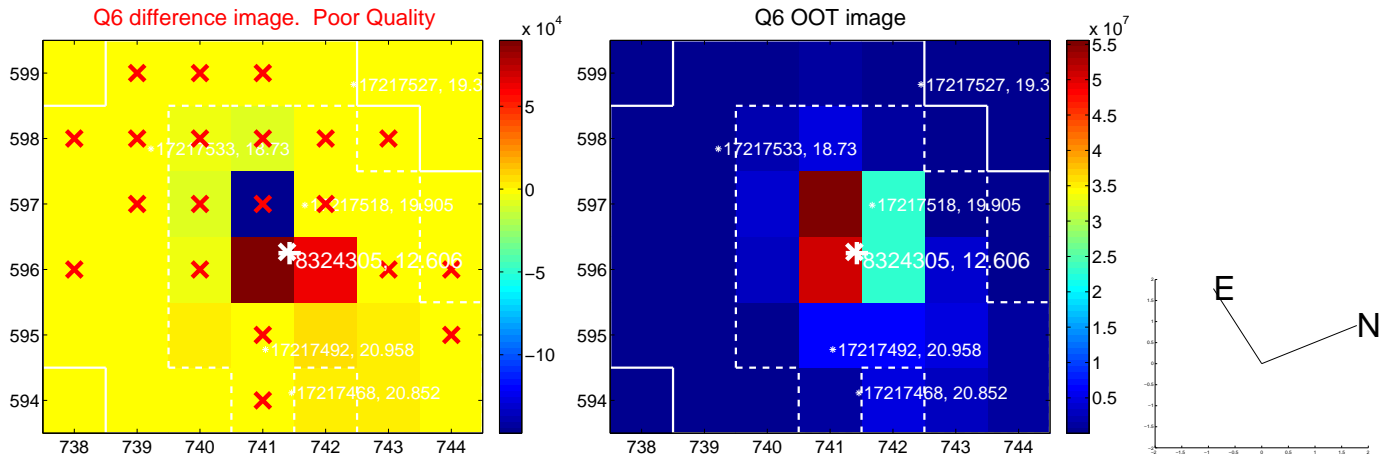
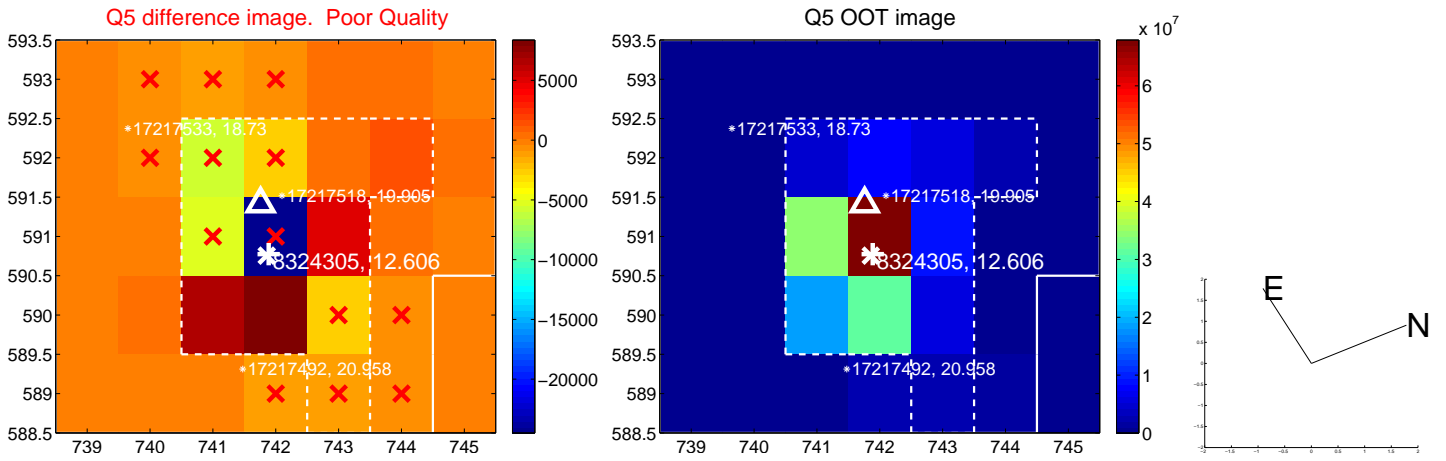


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

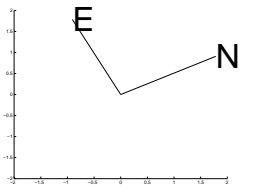
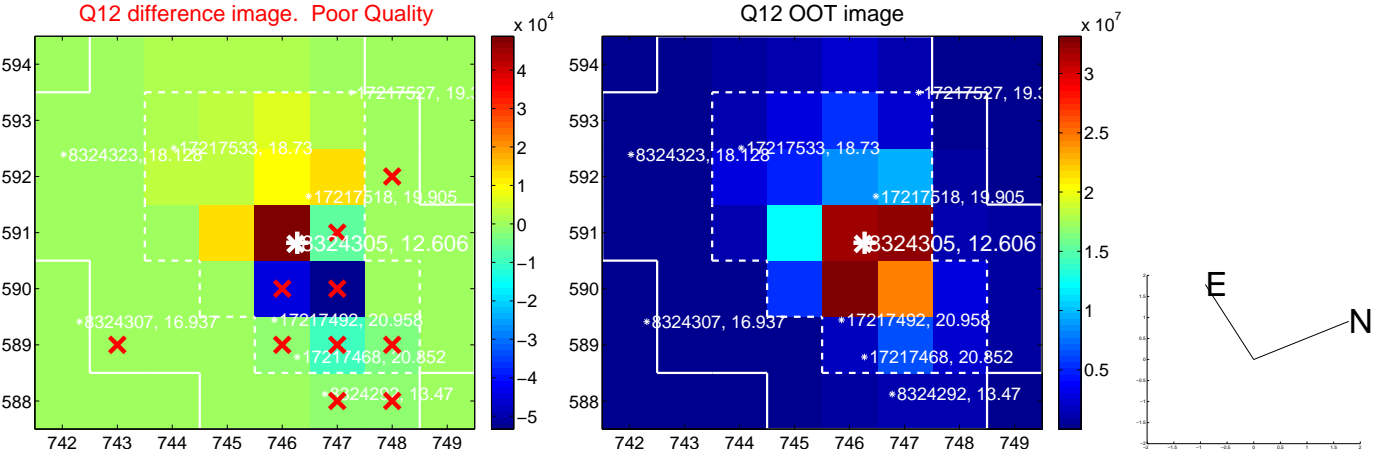
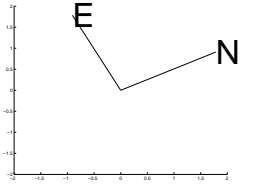
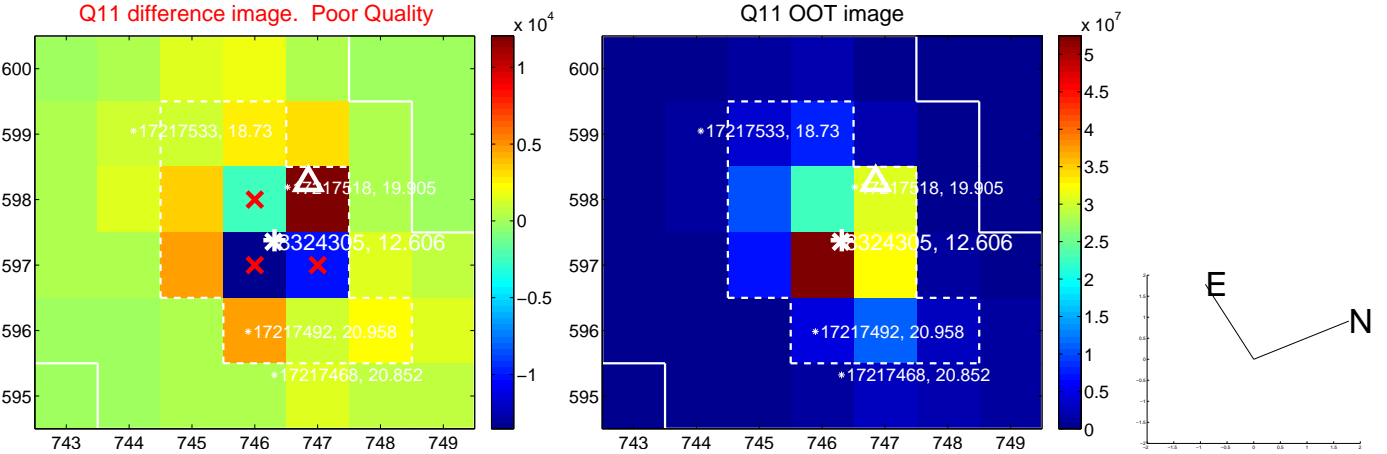
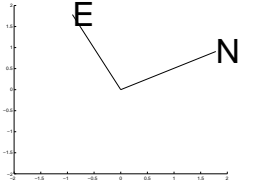
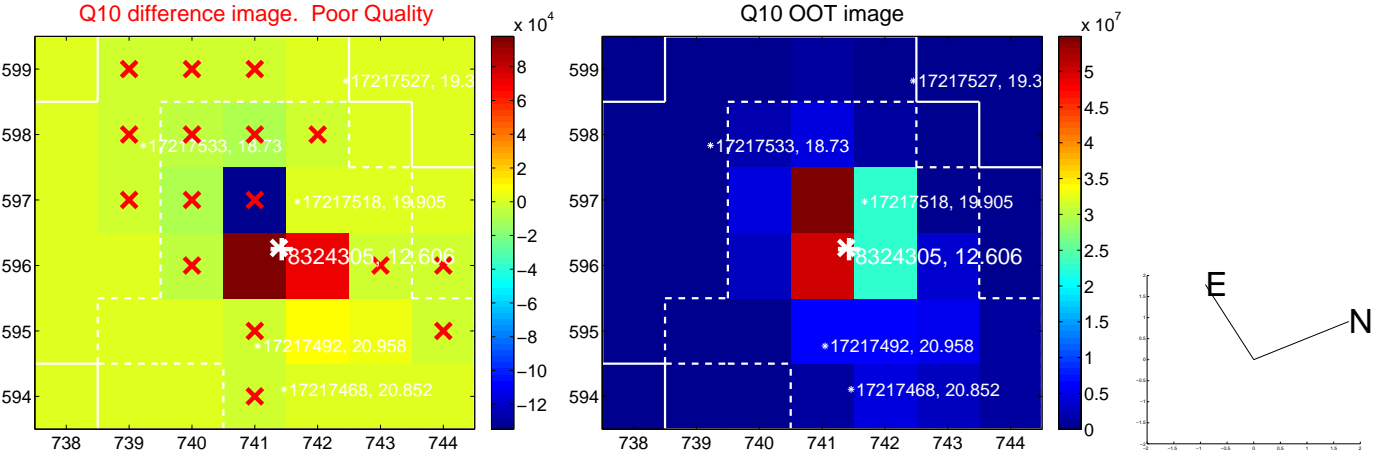
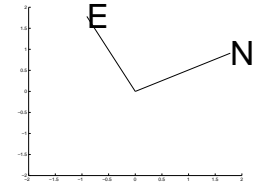
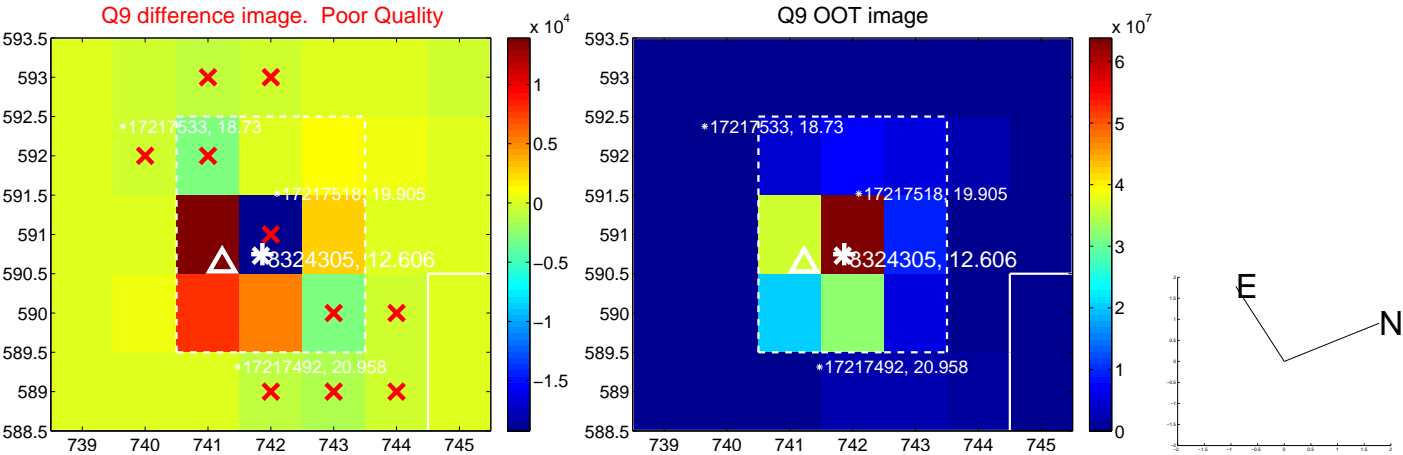
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



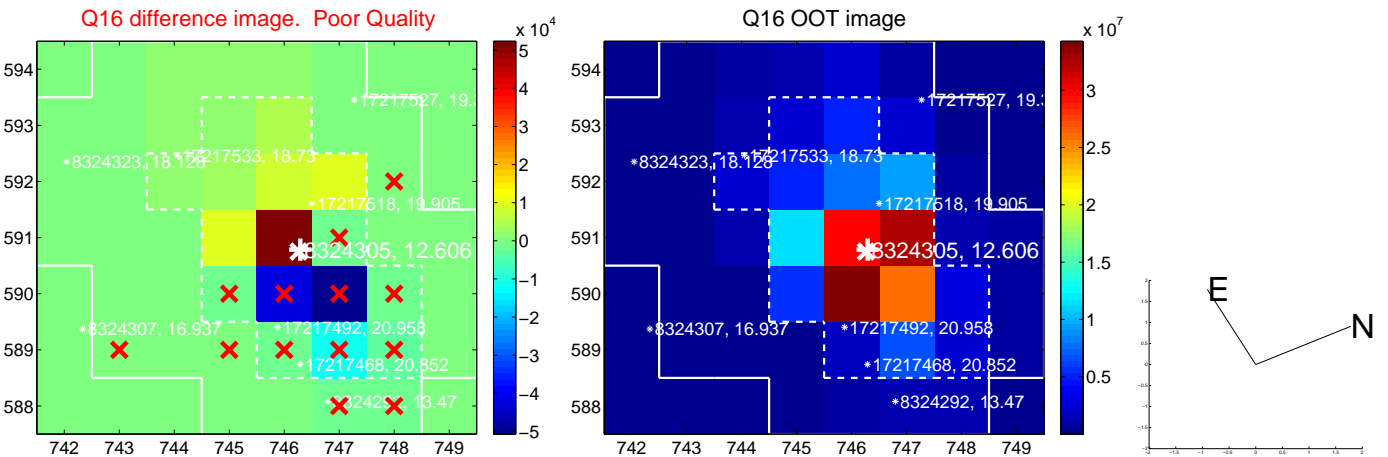
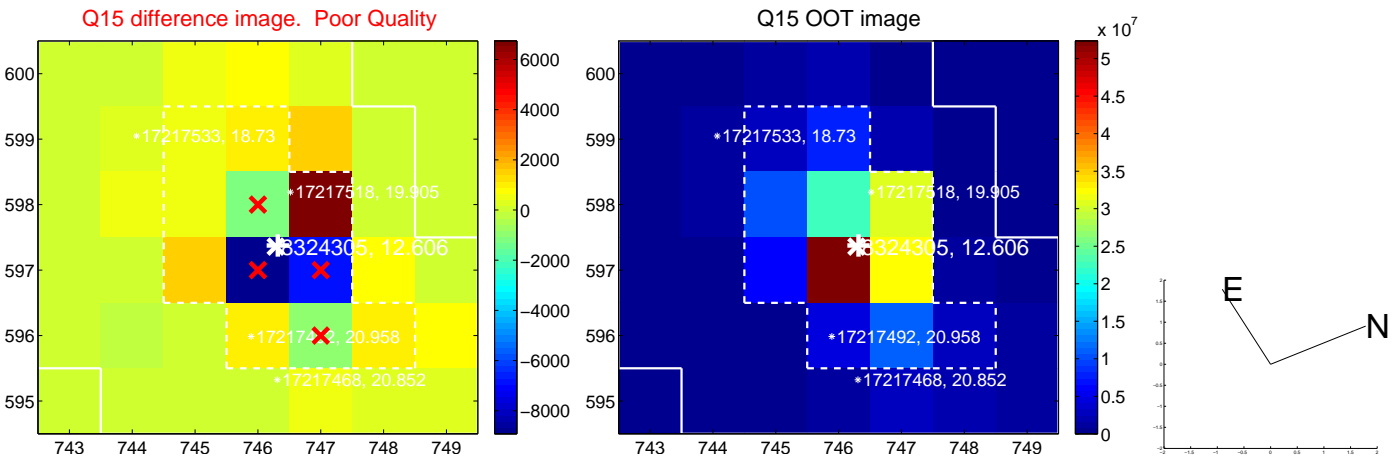
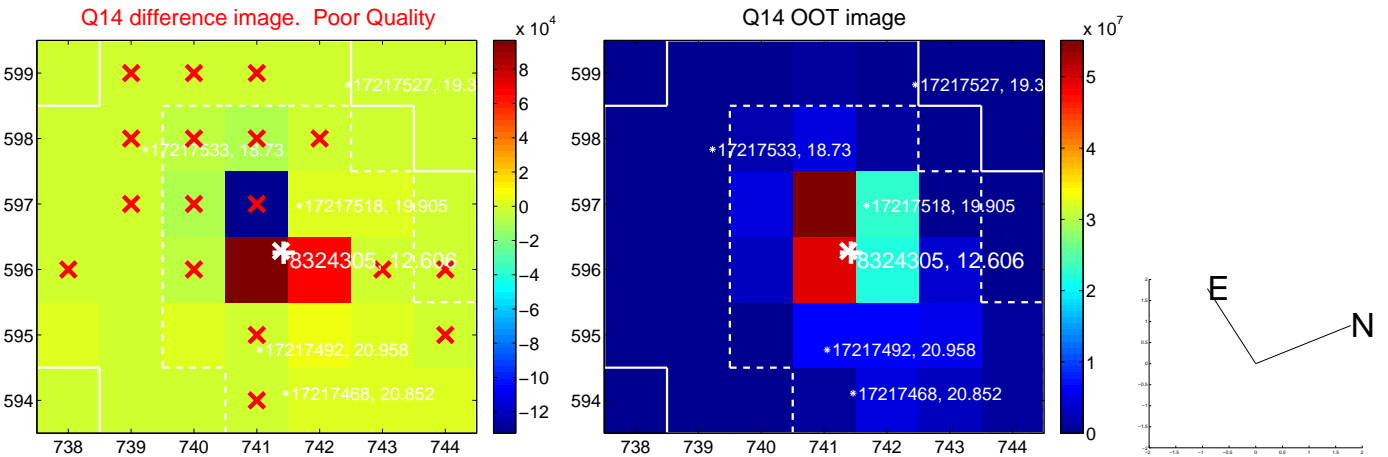
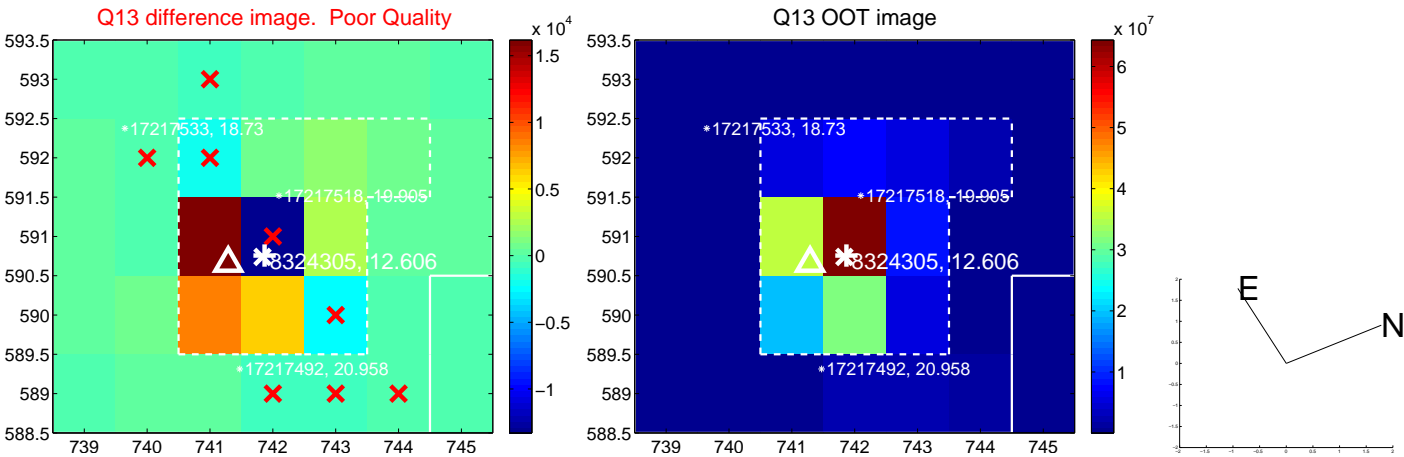
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



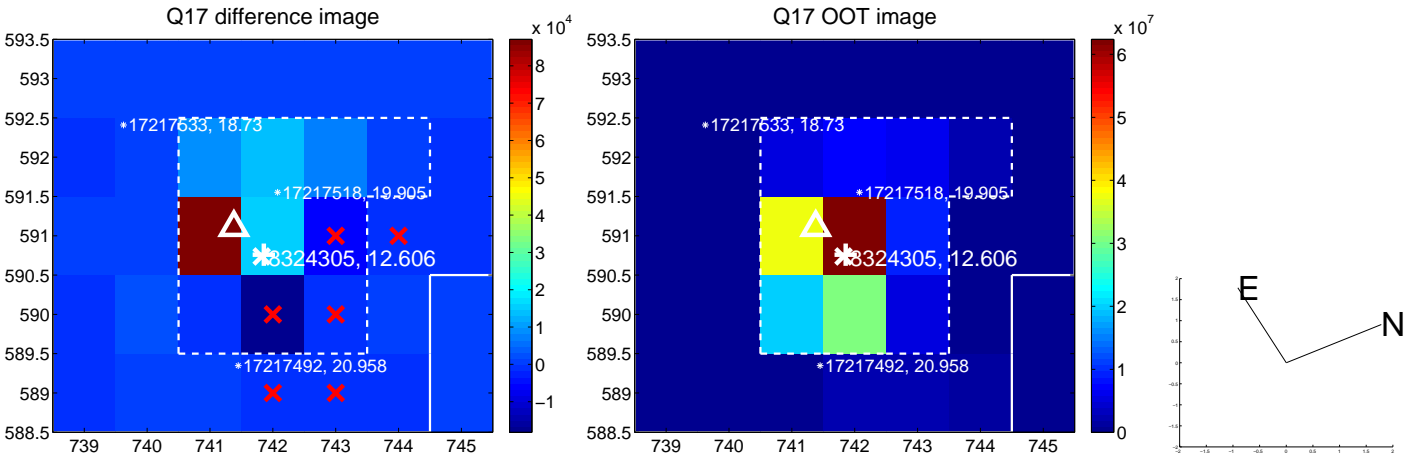
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

