

KIC 005964483

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})
005964483-01	OBS	No	2.192800	133.529648	15.1	22.199	9.2	7.9	2.94	6477	1.20	8806.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005964483-01	OBS	FP	0.00	1	0	0	0	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.

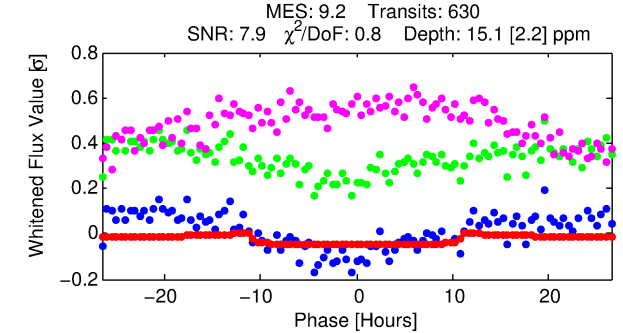
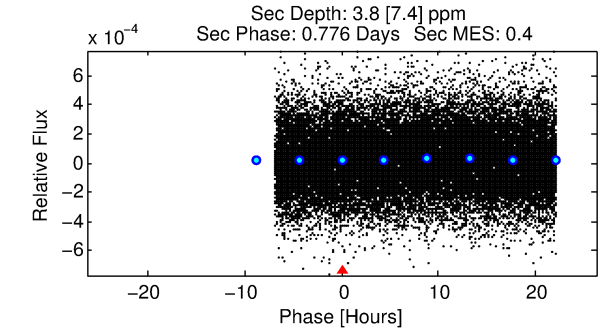
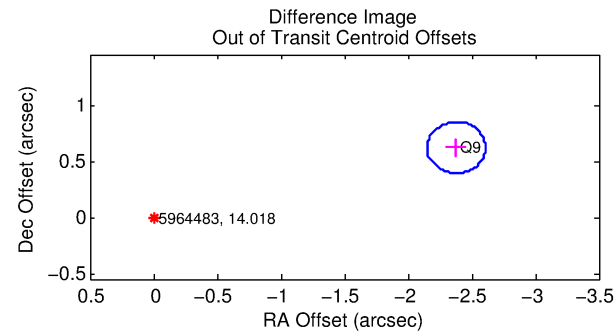
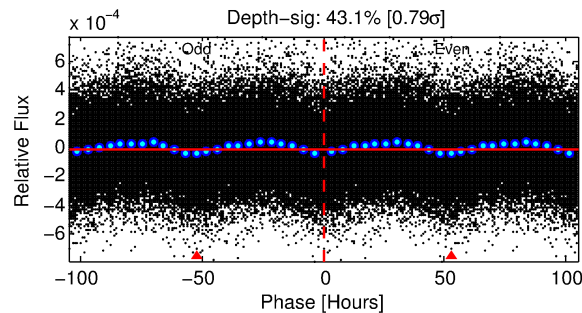
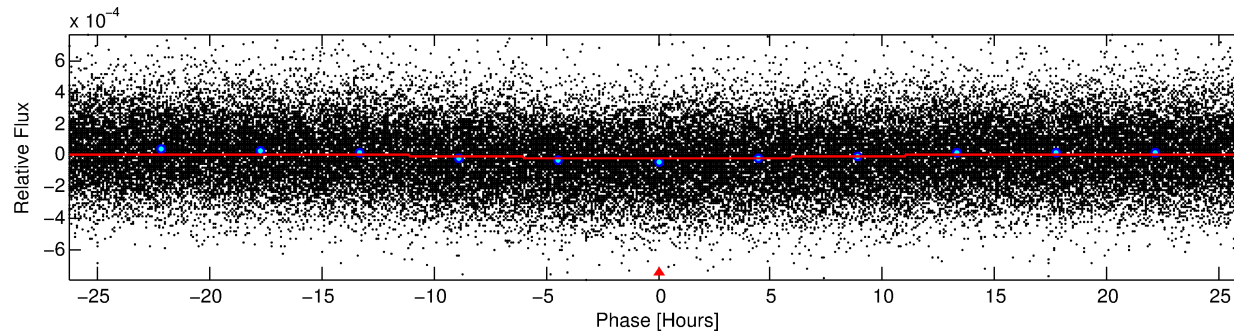
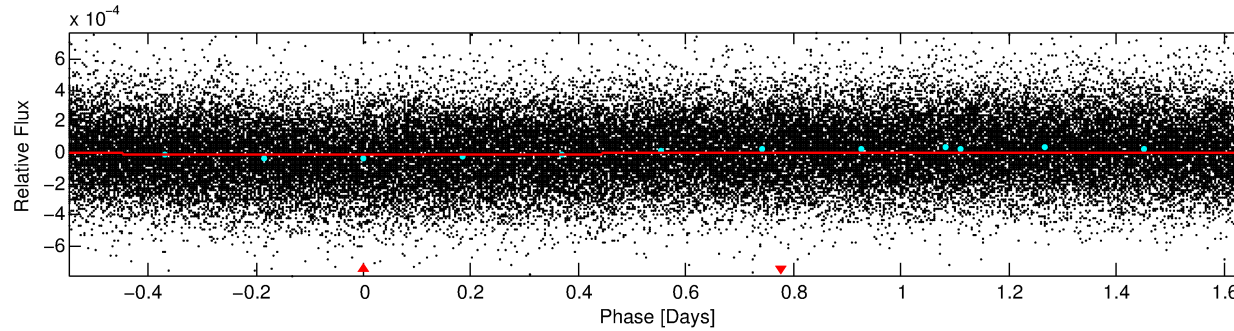
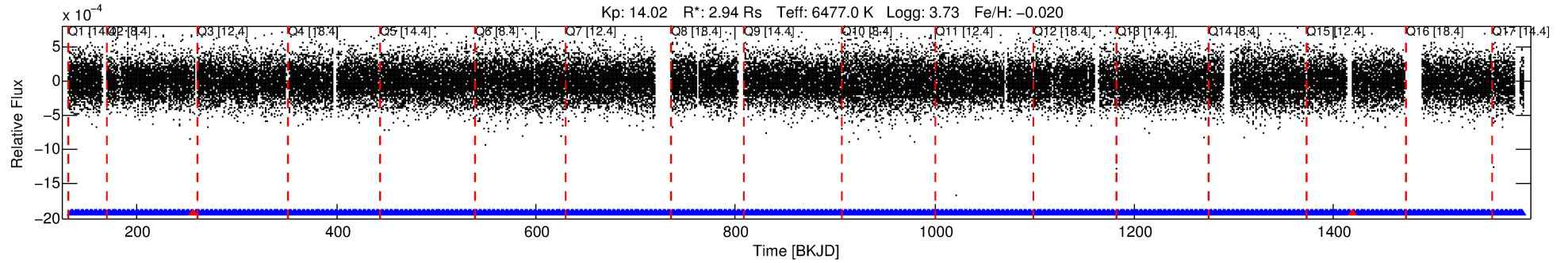
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005964483-01

No Significant Match Found

DV One-Page Summary

KIC: 5964483 Candidate: 1 of 1 Period: 2.193 d



DV Fit Results:

Period = 2.19280 [0.00007] d
Epoch = 133.5296 [0.0186] BKJD
Rp/R* = 0.0037 [0.0031]
a/R* = 1.02 [0.22]
b = 0.59 [5.08]
Seff = 8806.83 [3015.95]
Teq = 2470 [211] K
Rp = 1.20 [1.05] Re
a = 0.0394 [0.0090] AU
Ag = 2.28 [5.87] [0.22 σ]
Teffp = 4694 [2993] K [0.74 σ]

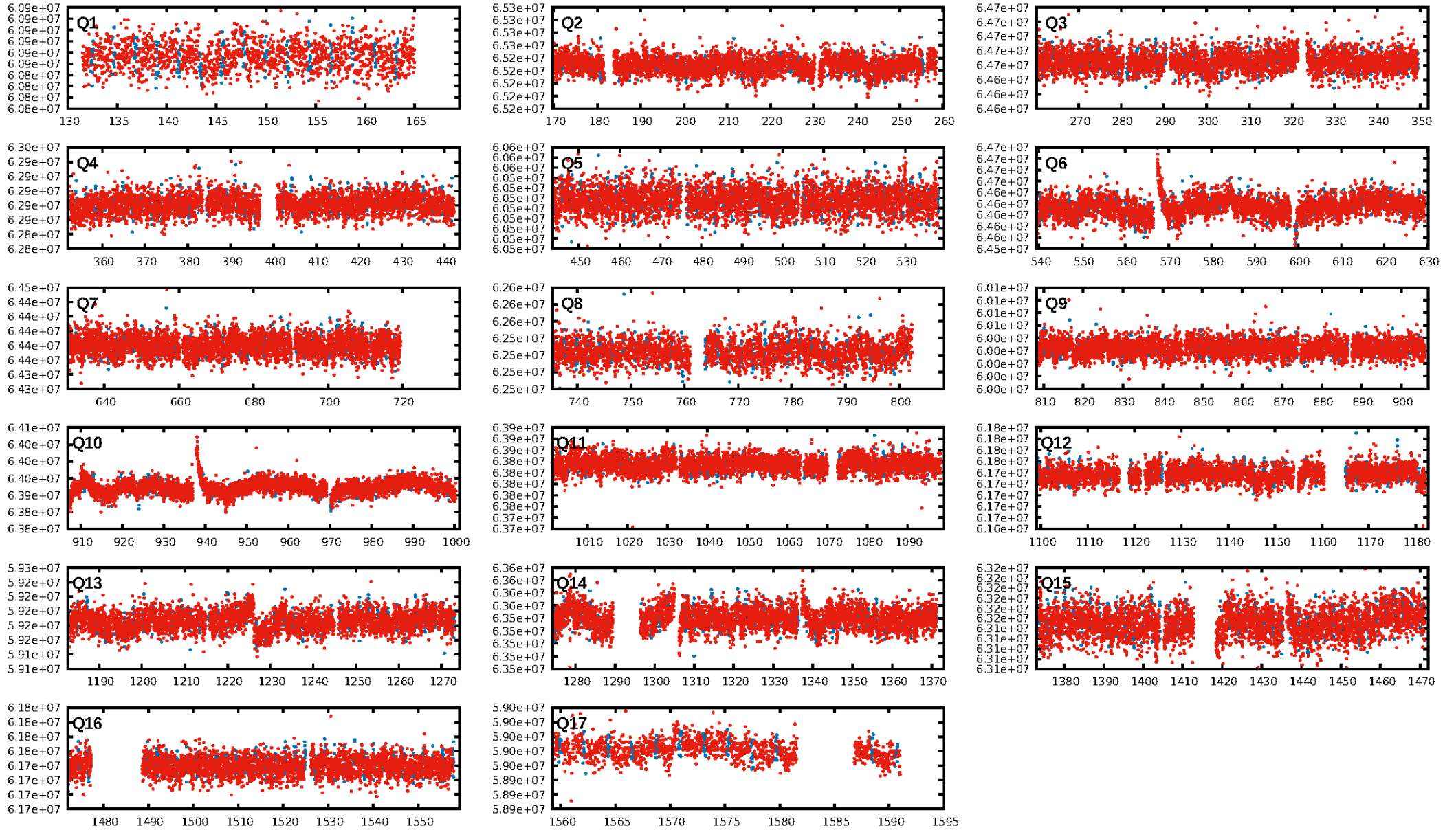
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [599/601]
GhostDiagnostic-chr: -16.8
Centroid-sig: 17.5%
Centroid-so: 1.365 arcsec [1.11 σ]
OotOffset-rm: 2.457 arcsec [32.25 σ]
KicOffset-rm: 2.418 arcsec [31.75 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [17/17]

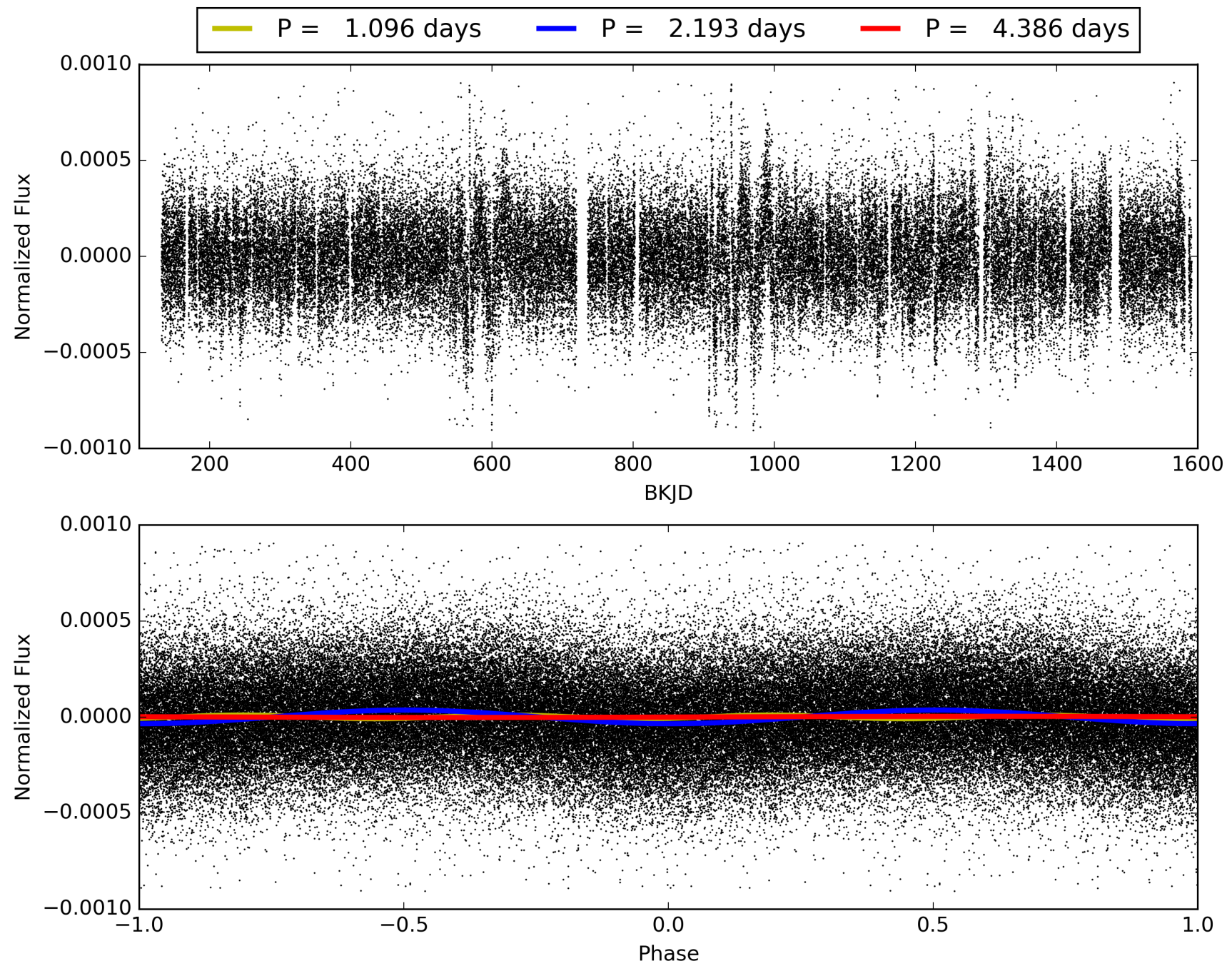
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 14:58:36 Z

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

TCE 005964483-01, PDC Light Curves

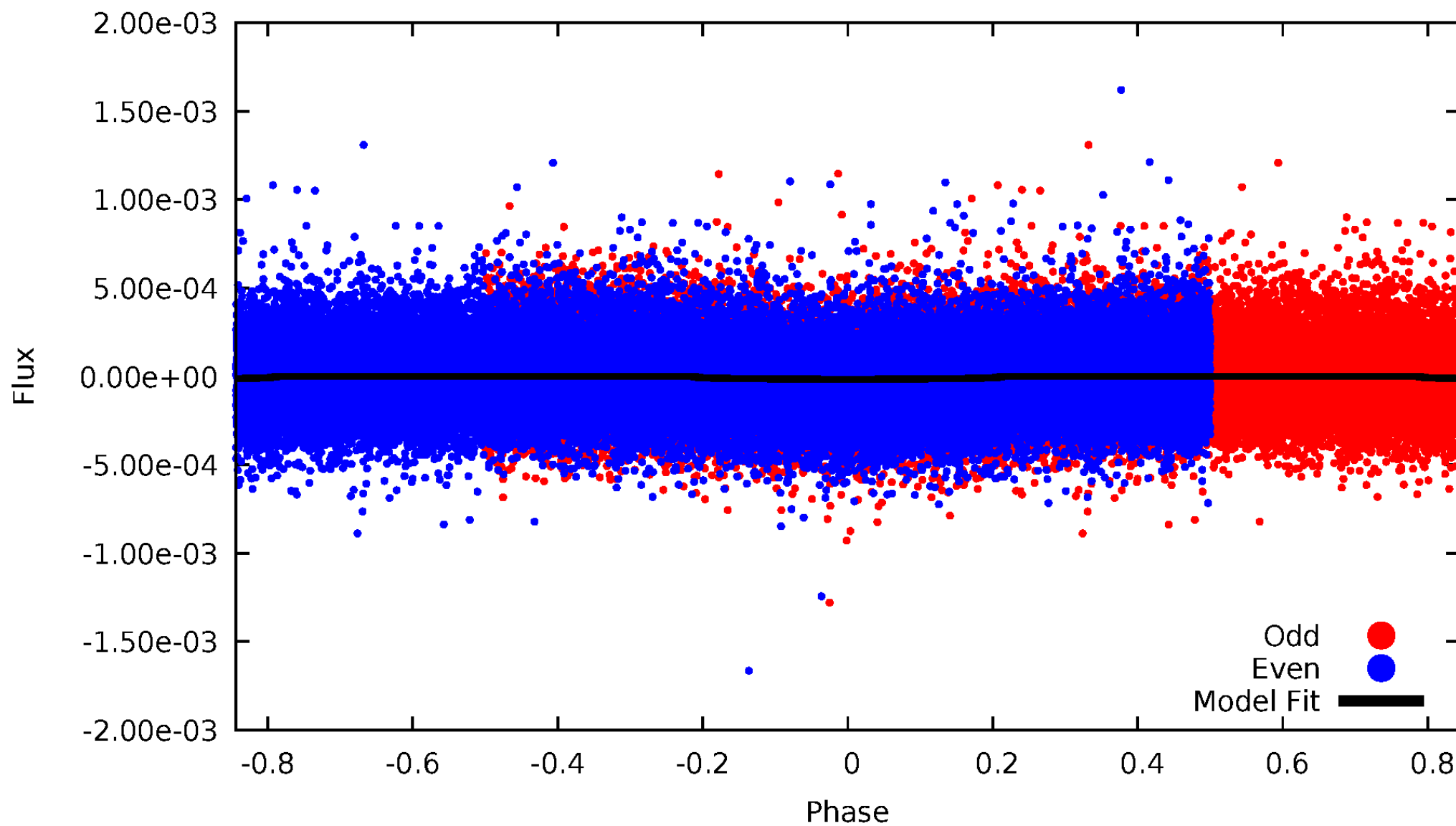


TCE 005964483-01



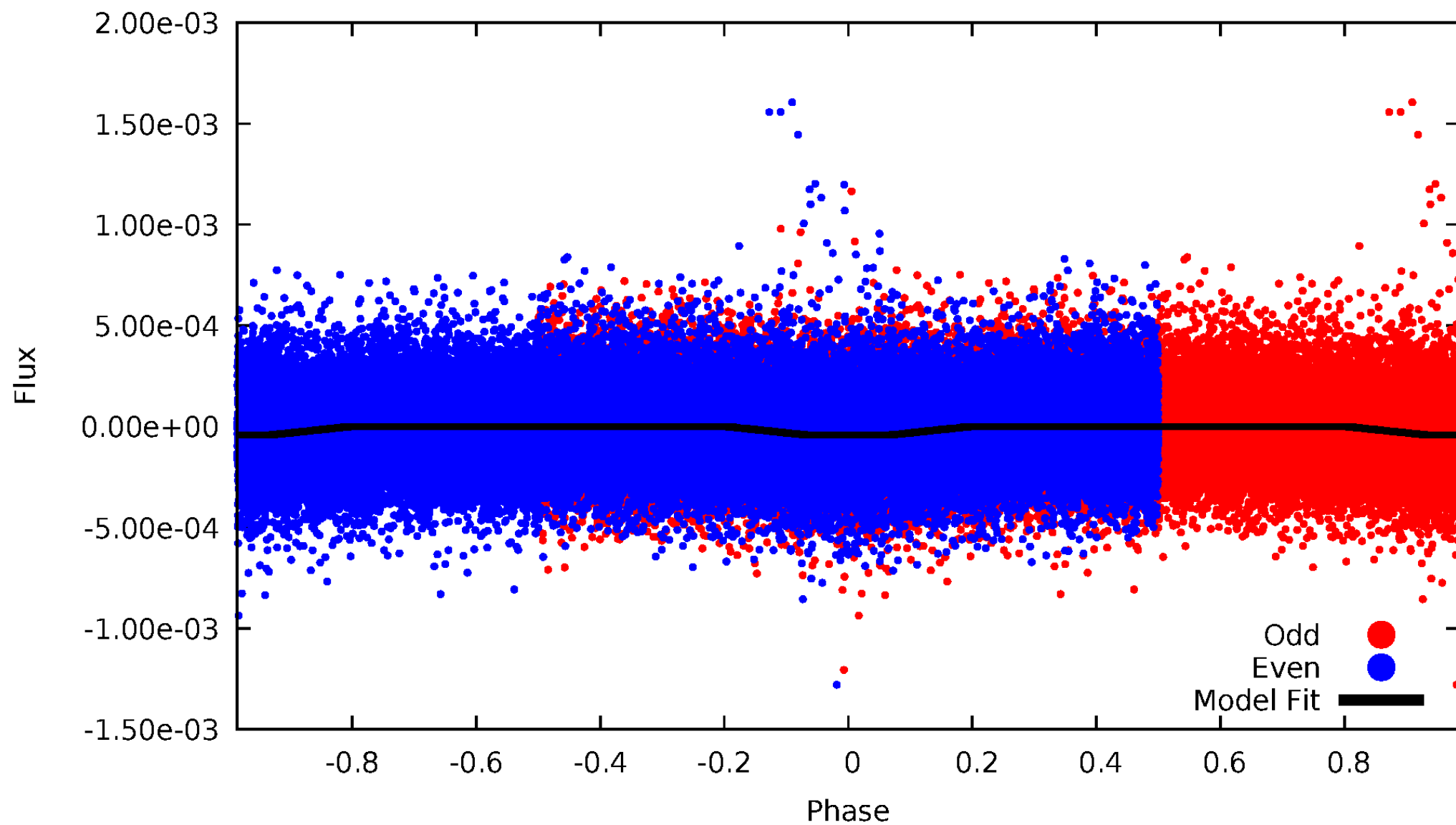
DV Odd/Even

TCE 005964483-01



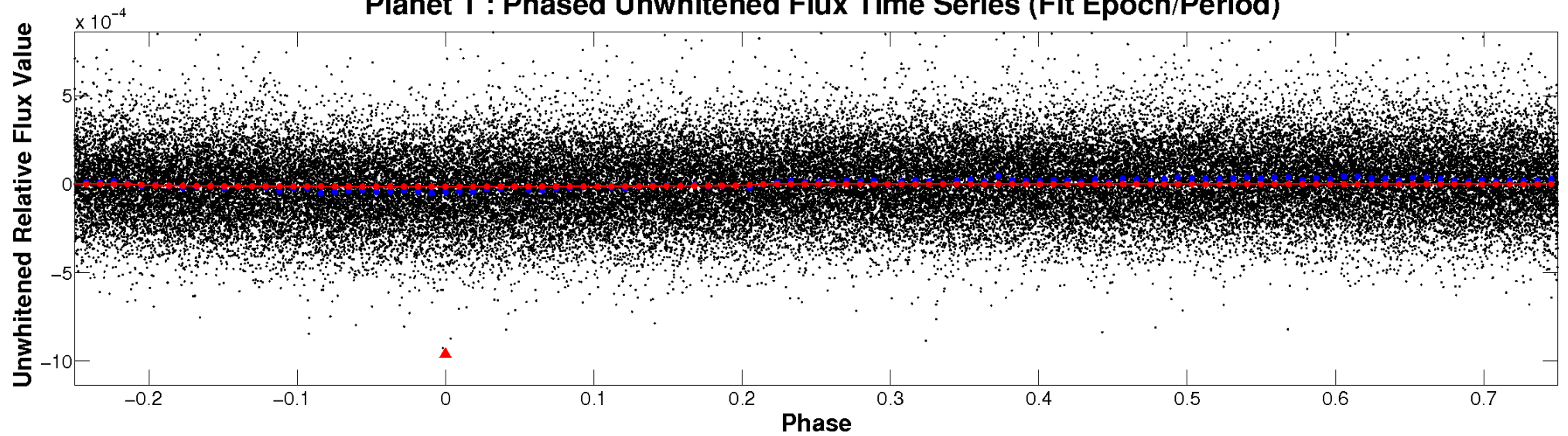
ALT Odd/Even

TCE 005964483-01

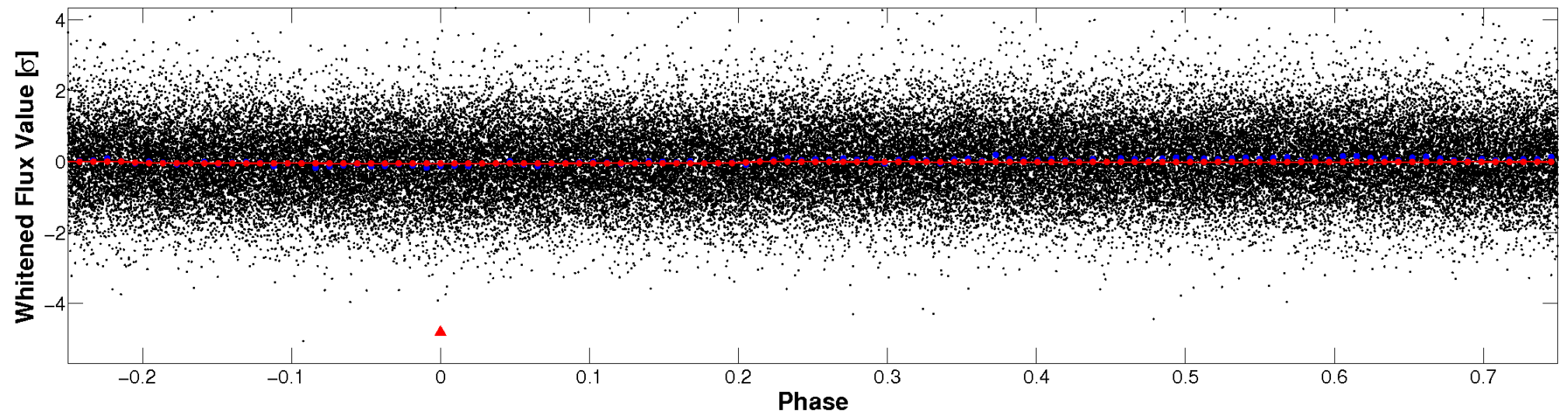


Non-Whitened Vs. Whitened Light Curve

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

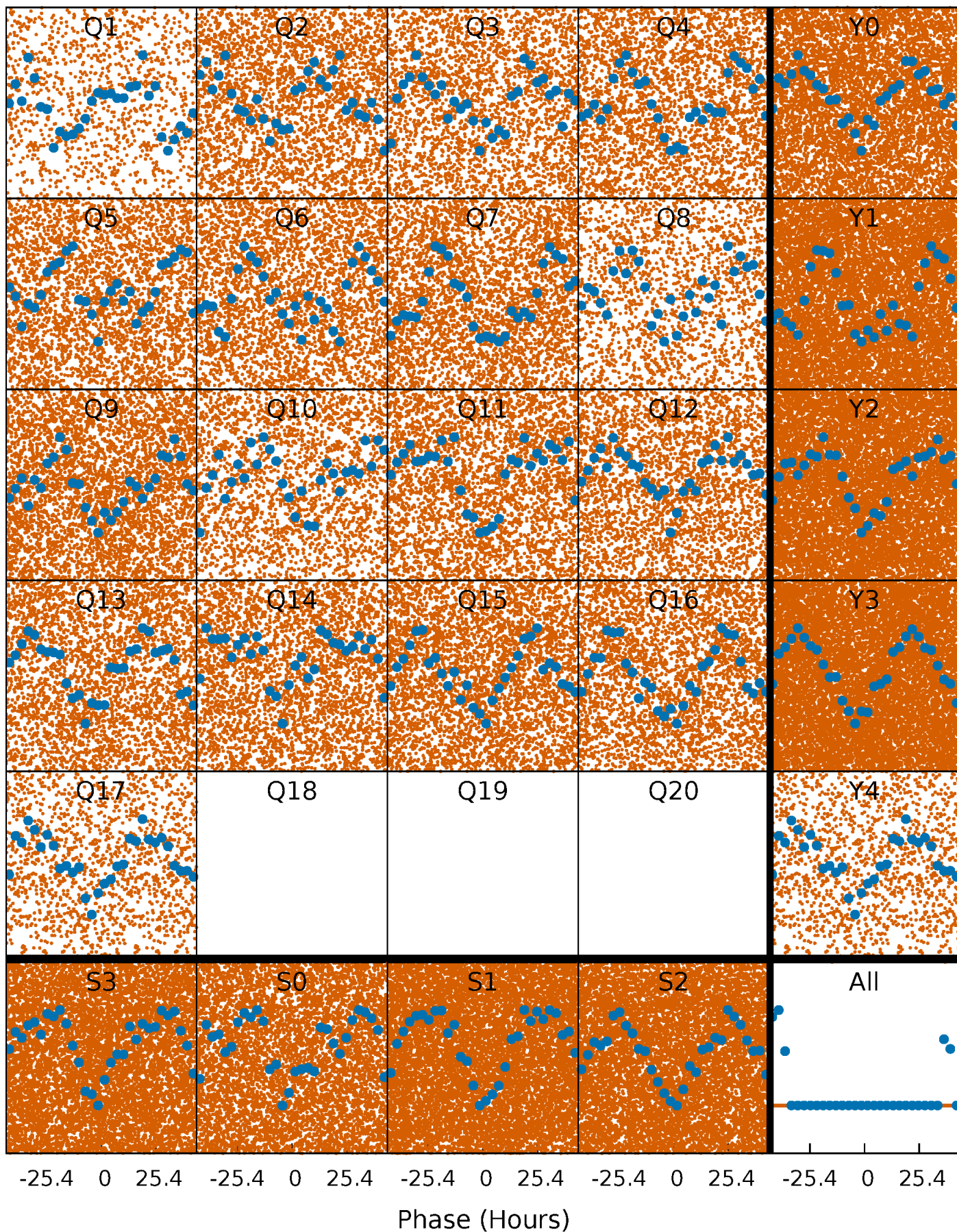


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



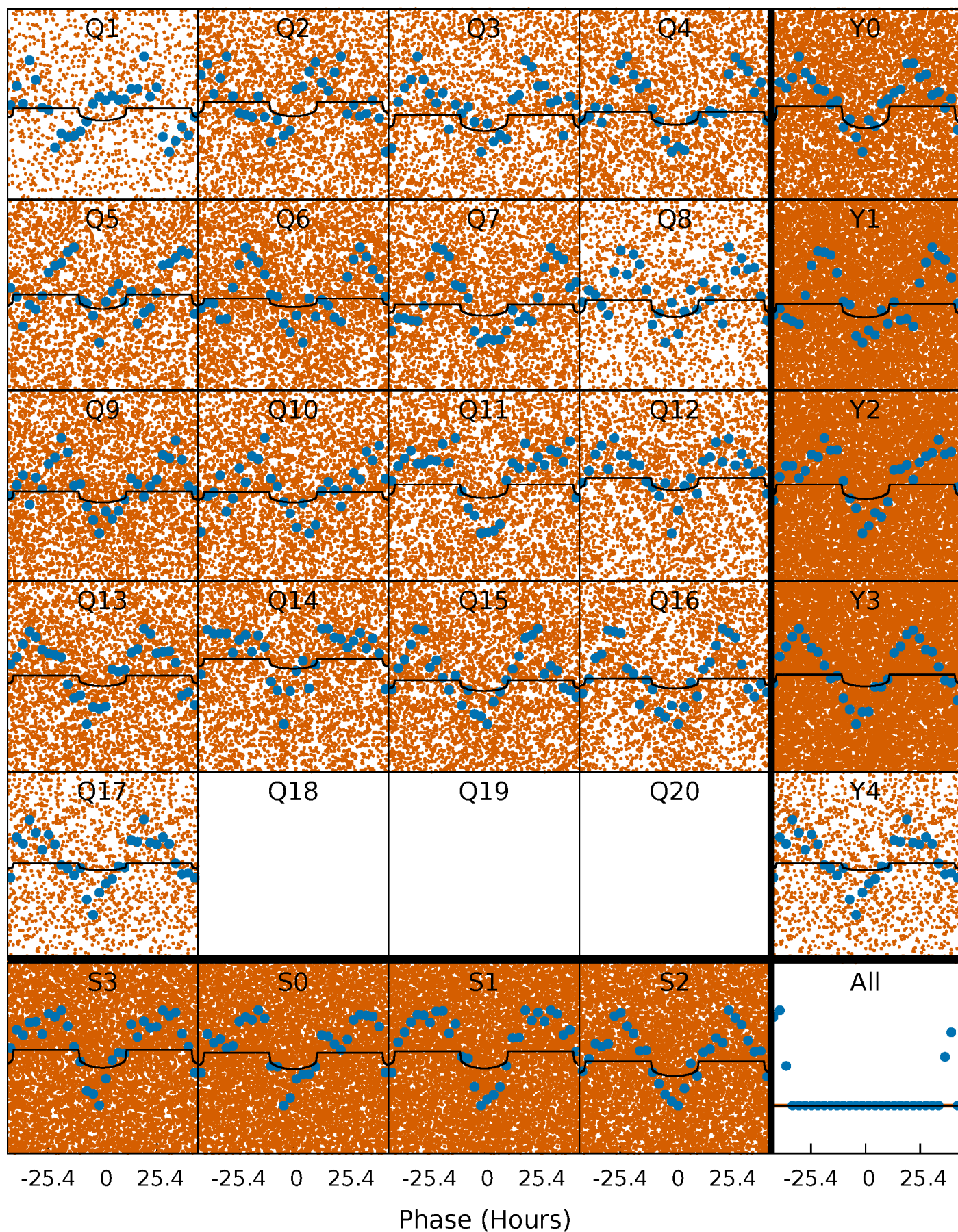
PDC Quarter-Phased Transit Curves

TCE 005964483-01 P= 2.192800 Days $T_0=133.529648$ (BKJD)



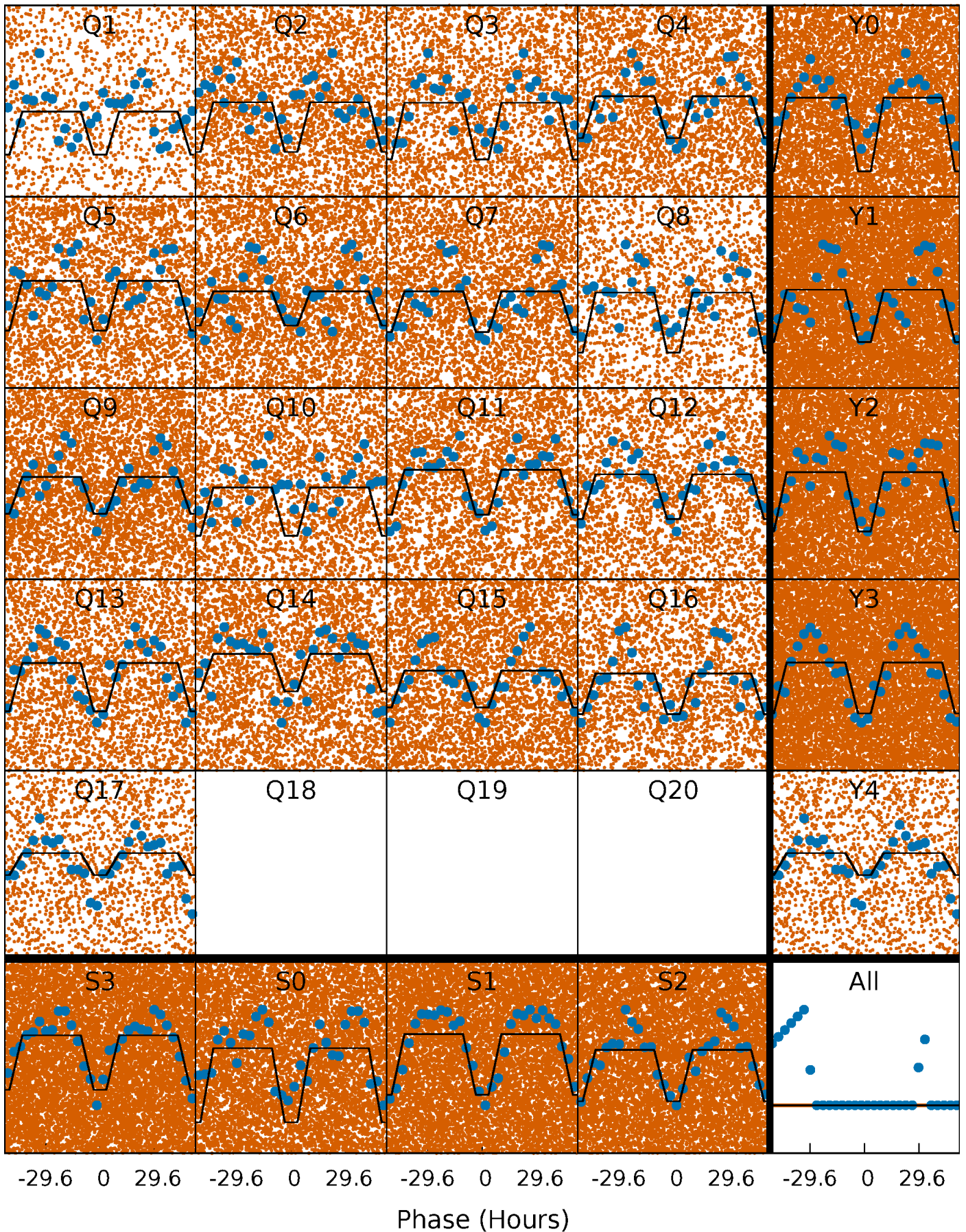
DV Quarter-Phased Transit Curves

TCE 005964483-01 P= 2.192800 Days $T_0=133.529648$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

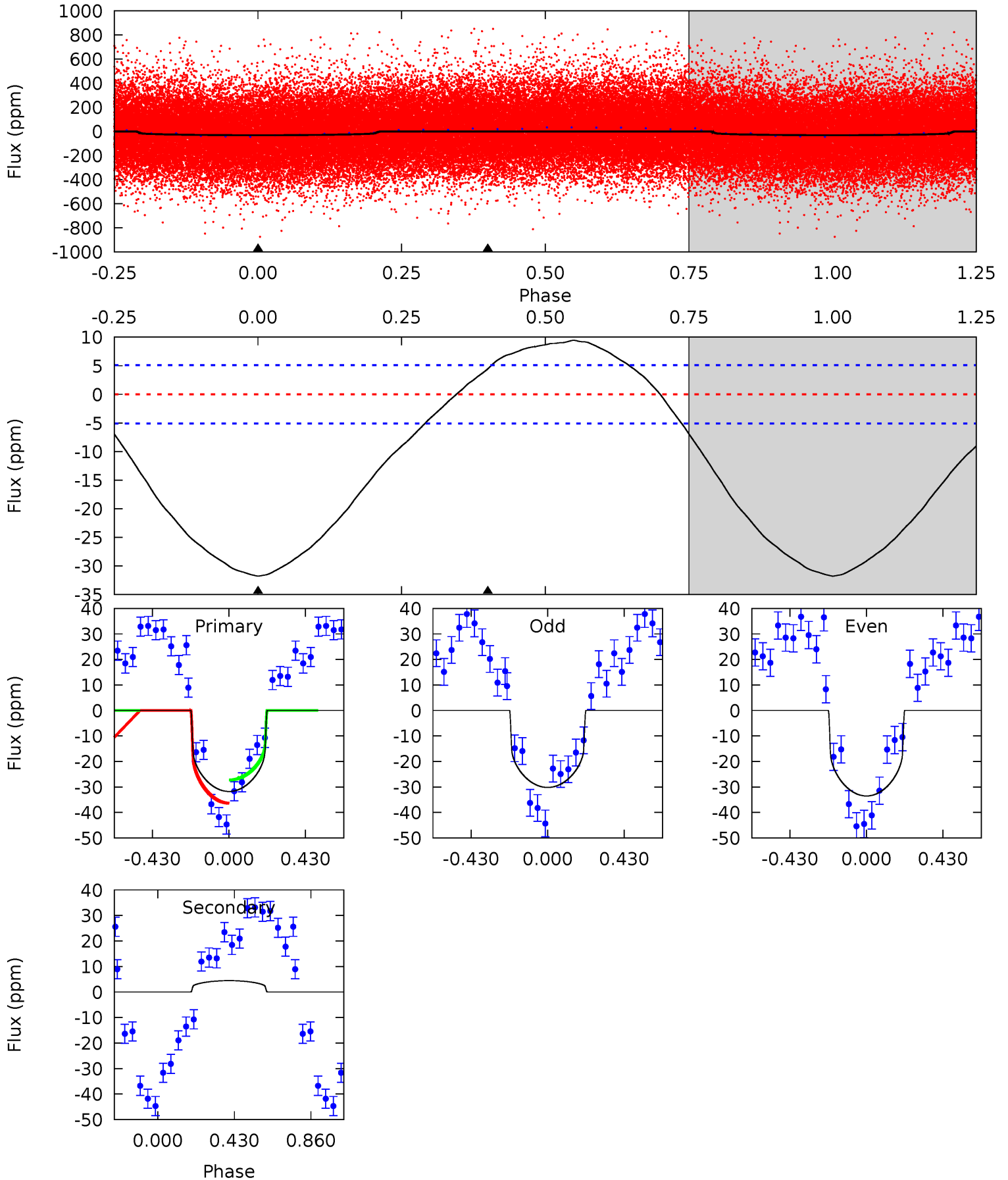
TCE 005964483-01 P= 2.192805 Days $T_0=133.487963$ (BKJD)



DV Model-Shift Uniqueness Test

005964483-01, P = 2.192800 Days, E = 131.336848 Days

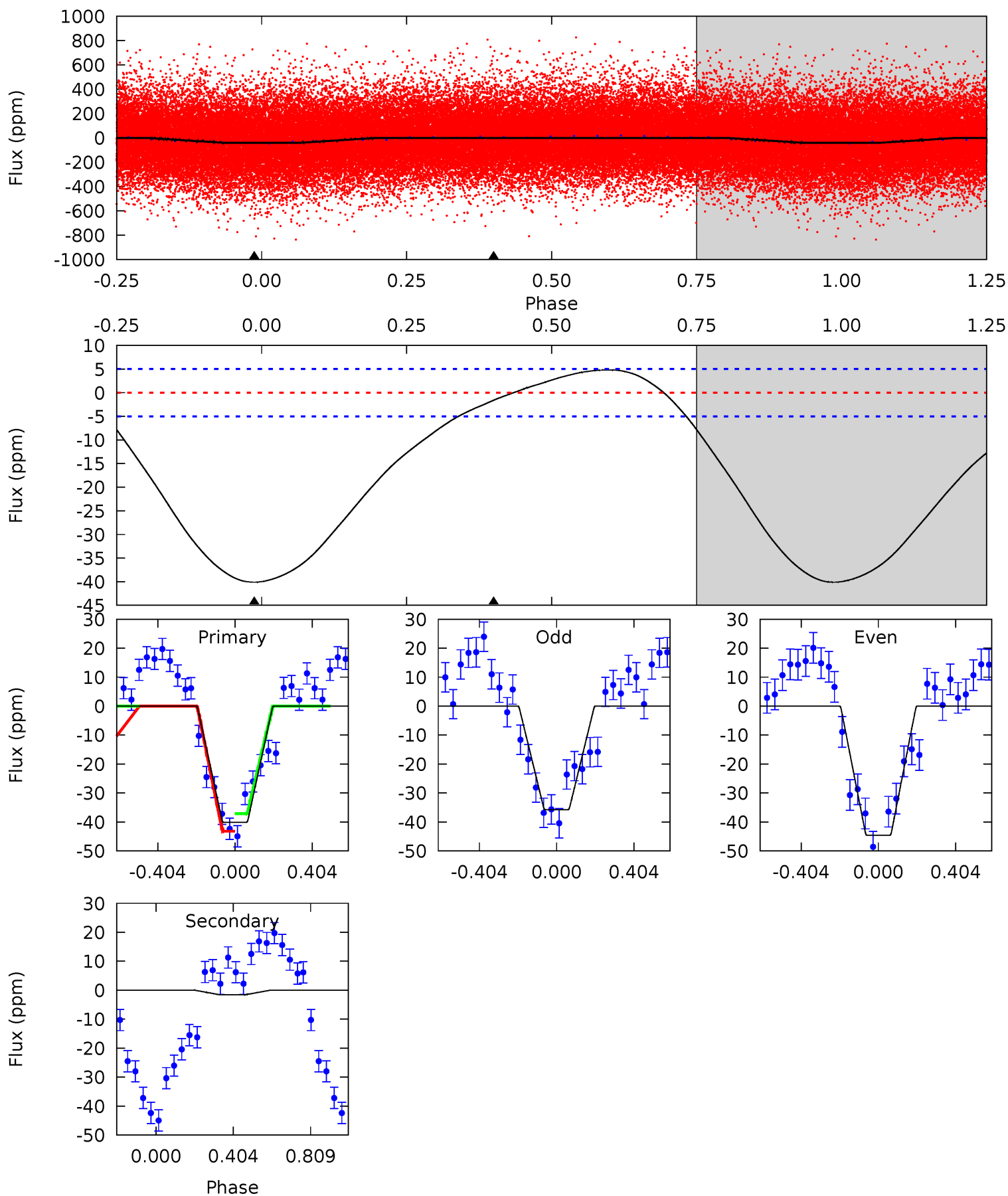
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.5	-3.73	0	0	4.25	0.79	2.92	26.5	26.5	-3.73	-3.73	1.40	1.06	0.23	3.84



Alt Model-Shift Uniqueness Test

005964483-01, P = 2.192805 Days, E = 131.295158 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
34.1	1.35	0	0	4.26	0.83	2.69	34.1	34.1	1.35	1.35	3.76	0.92	0.11	2.58



Stellar Parameters For KIC 005964483

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6477^{+77}_{-77}	$3.729^{+0.189}_{-0.067}$	$-0.020^{+0.150}_{-0.150}$	$2.942^{+0.332}_{-0.775}$	$1.691^{+0.112}_{-0.260}$	$0.093^{+0.109}_{-0.021}$
	+1%/-1%	+5%/-2%	+750%/-750%	+11%/-26%	+7%/-15%	+117%/-23%
Source	SPE68	SPE68	SPE68	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 005964483-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	4 ± 1	$1.25^{+0.98}_{-0.74}$	3425^{+131}_{-189}	-4902^{+799}_{-2437}	$-2.274^{+1.533}_{-11.827}$
Alt.	-2 ± 1	$2.11^{+1.02}_{-1.00}$	3426^{+116}_{-214}	-2441^{+6342}_{-803}	$0.268^{+0.891}_{-0.214}$

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

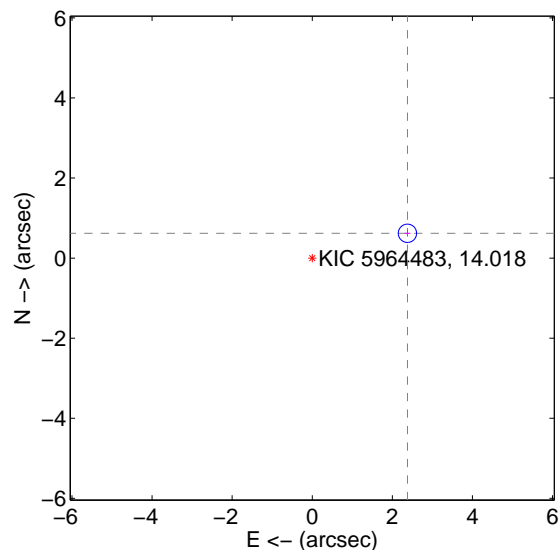
Supplemental centroid analysis for 005964483-01. Kepler magnitude: 14.02. Transit SNR 7.89

There are 1 quarters with good PRF difference image offsets

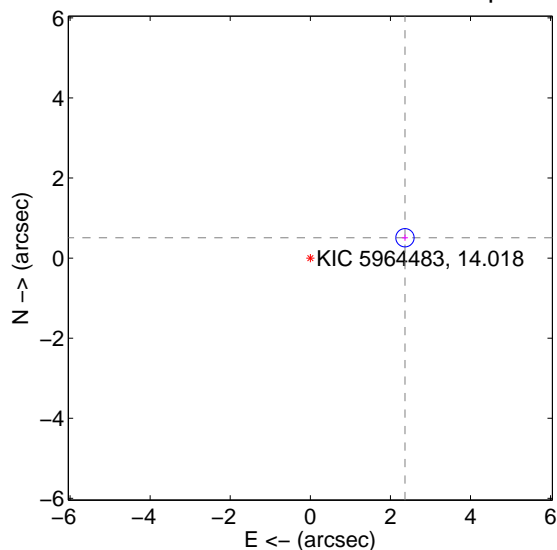
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.457 ± 0.076	32.25	-2.378 ± 0.076	0.620 ± 0.078
PRF-fit source offset from KIC position	2.418 ± 0.076	31.75	-2.364 ± 0.076	0.509 ± 0.078
photometric centroid source offset	1.36 ± 1.22	1.11	1.33 ± 1.23	-0.30 ± 1.08

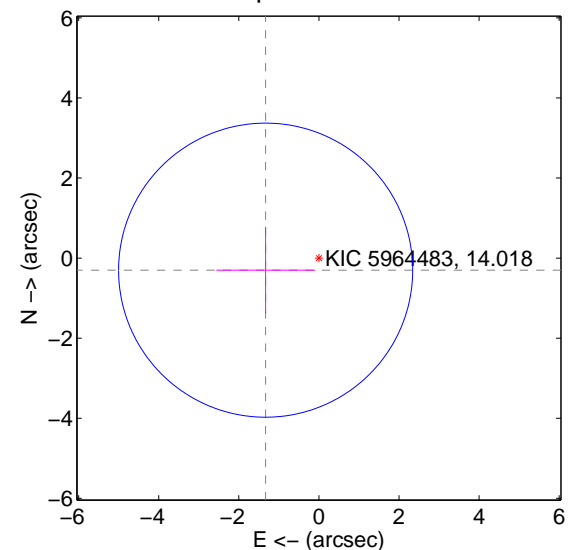
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

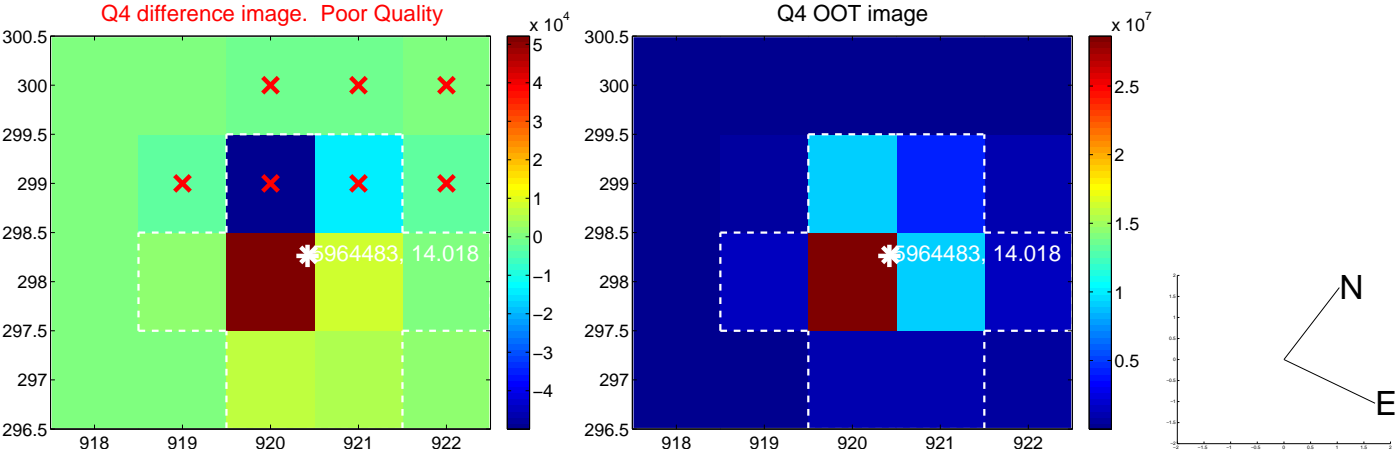
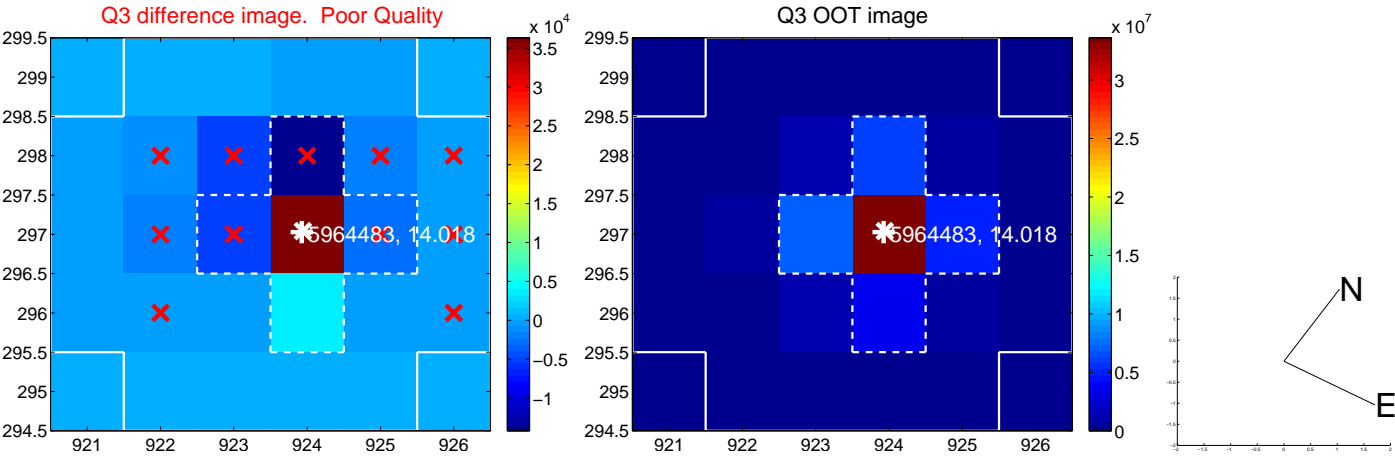
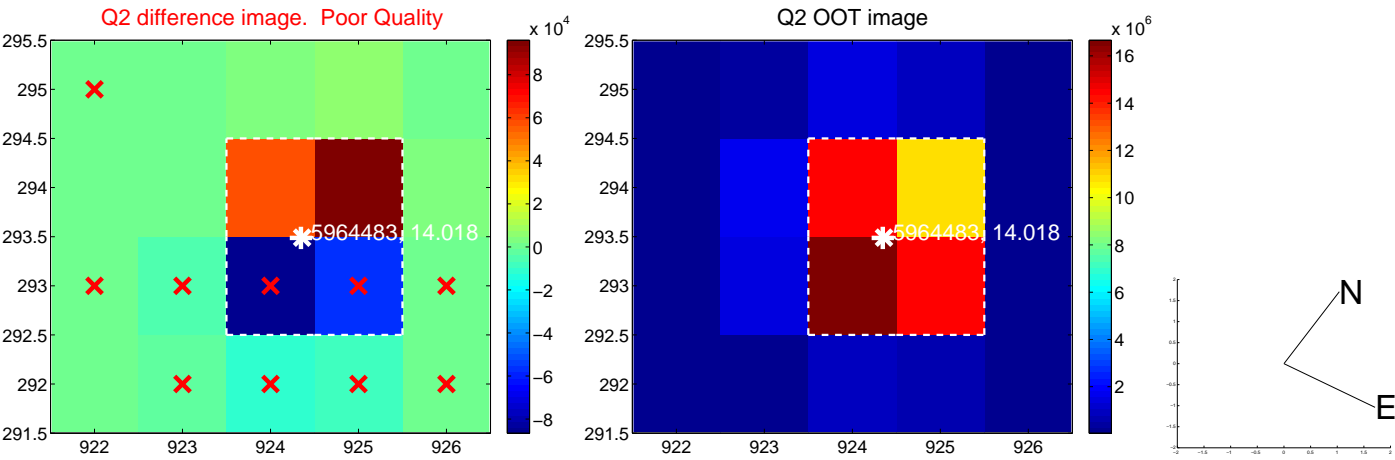
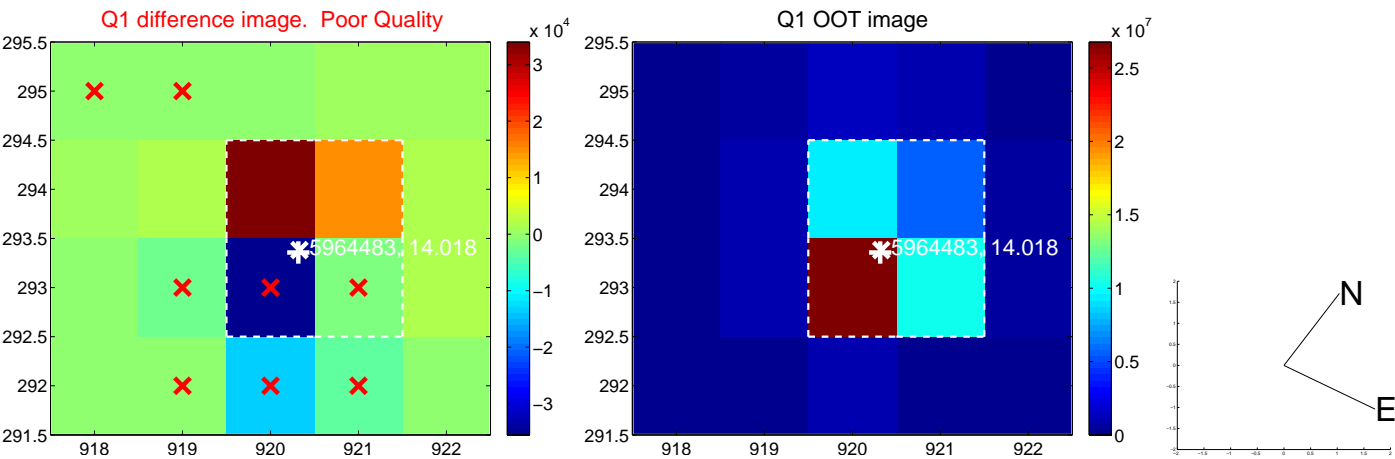


offset from photometric centroids

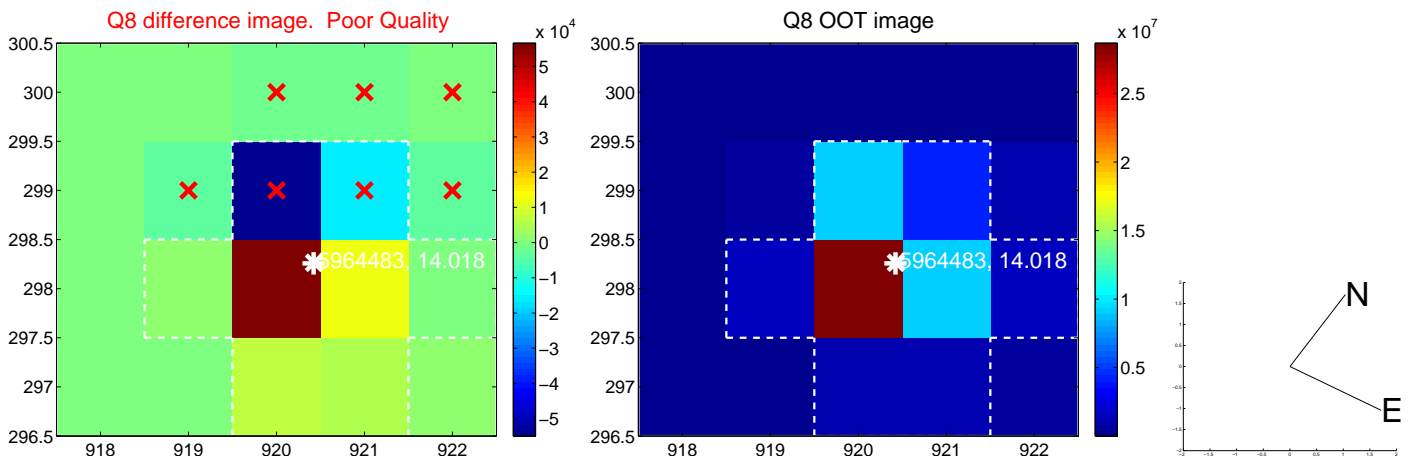
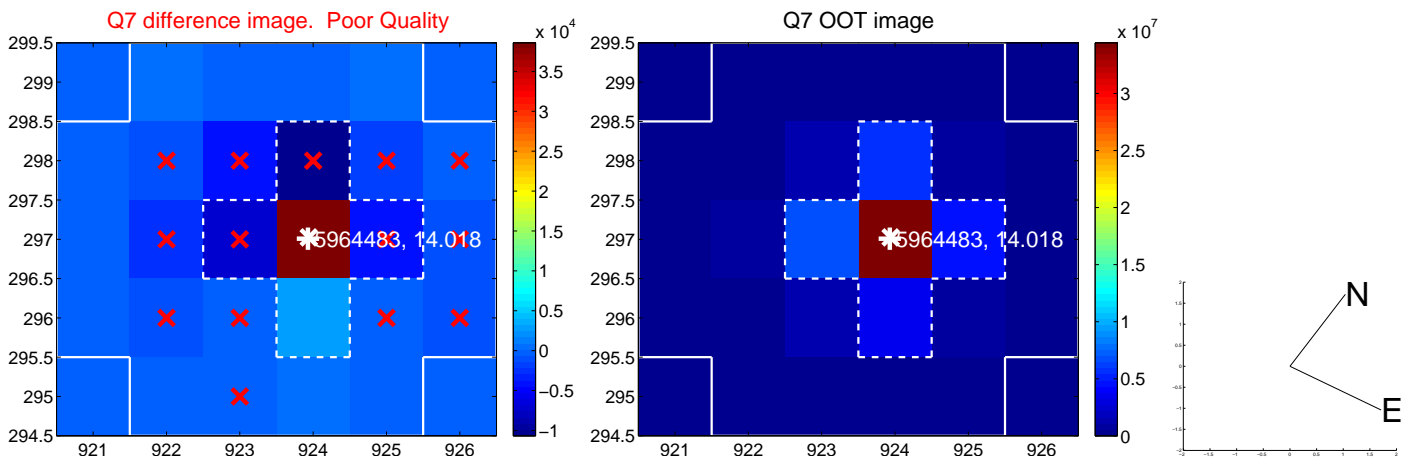
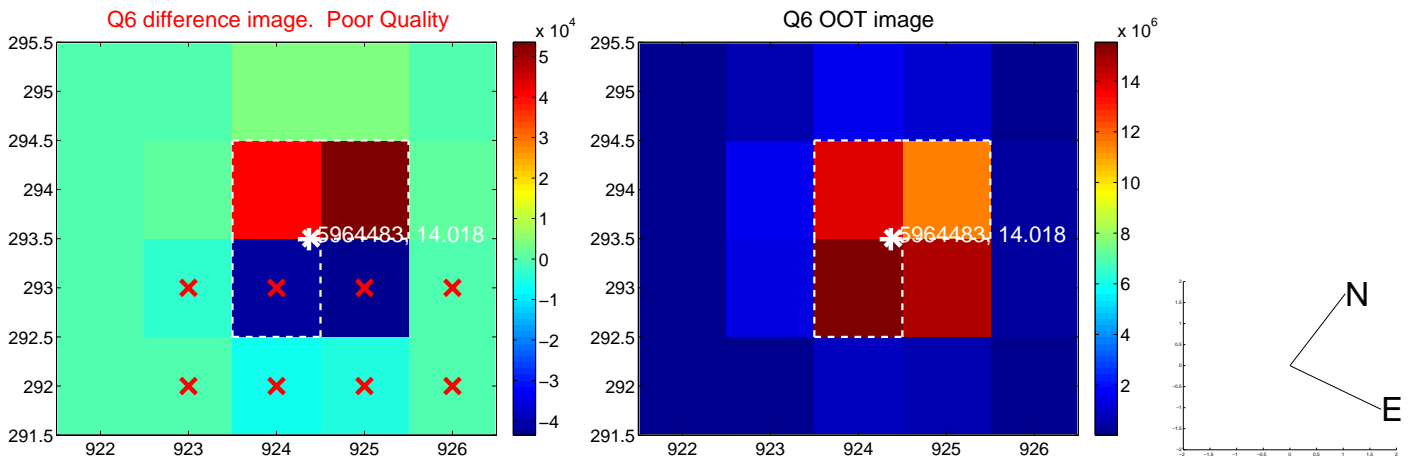
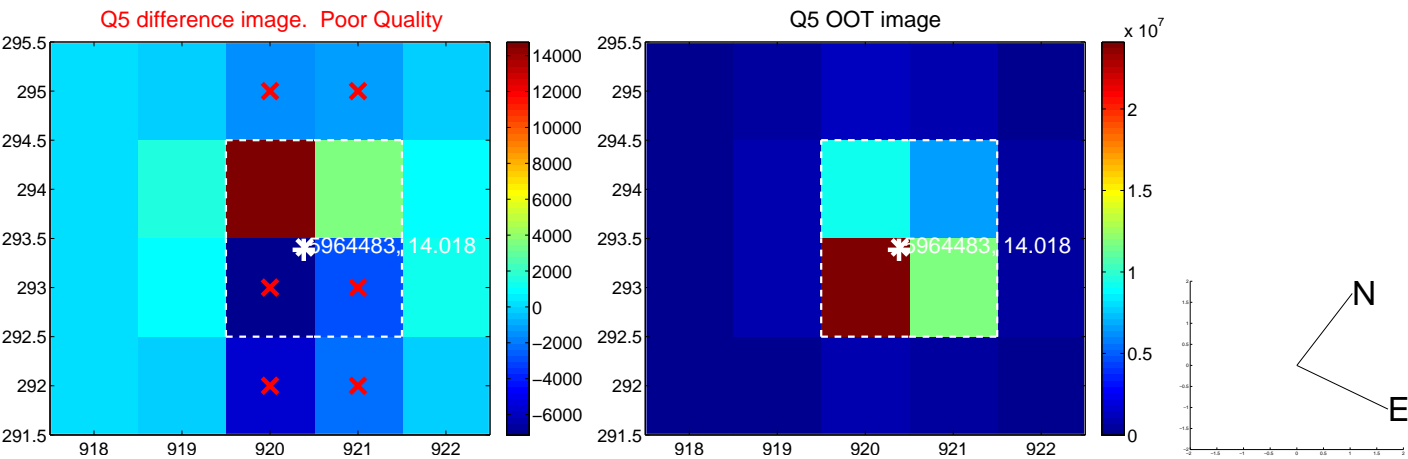


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

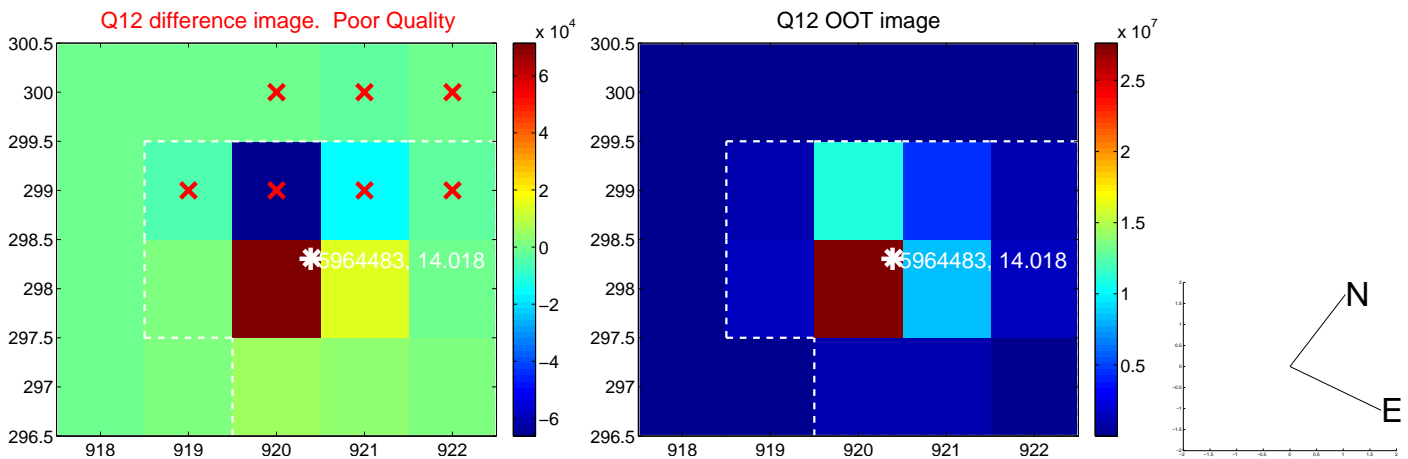
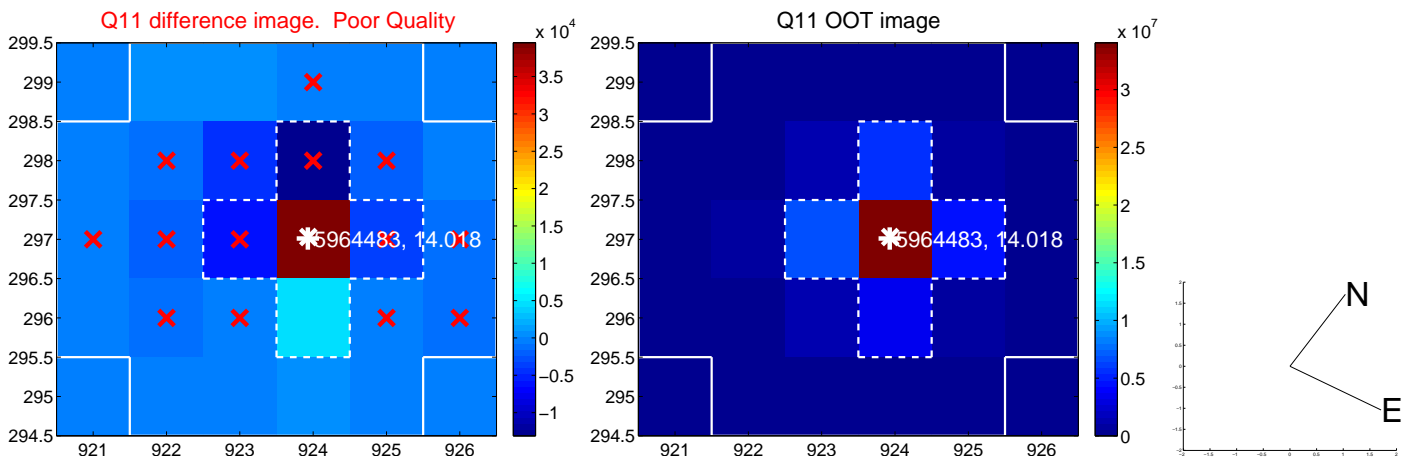
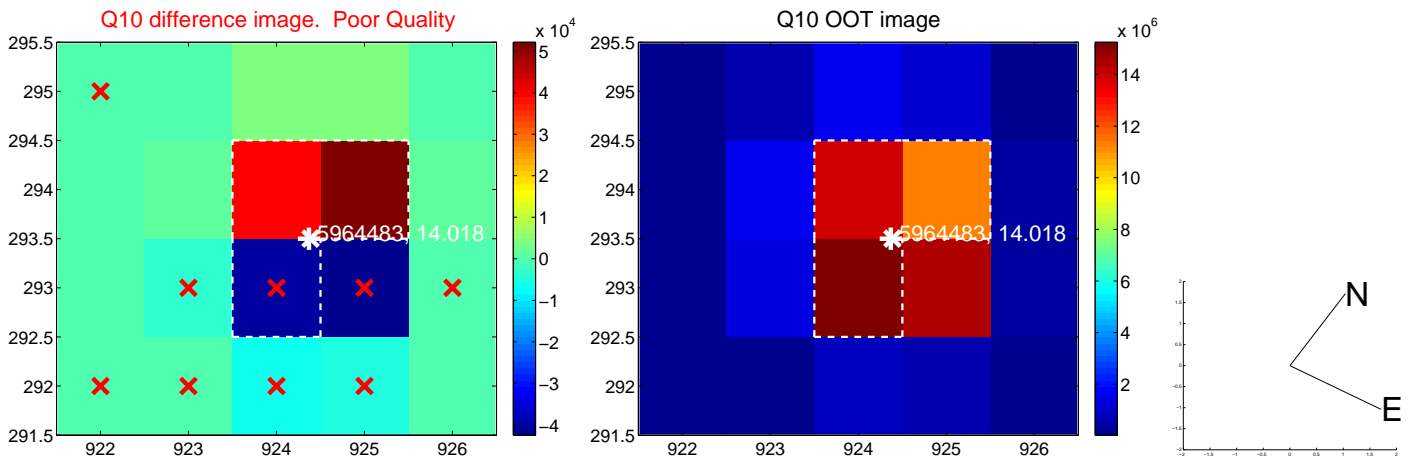
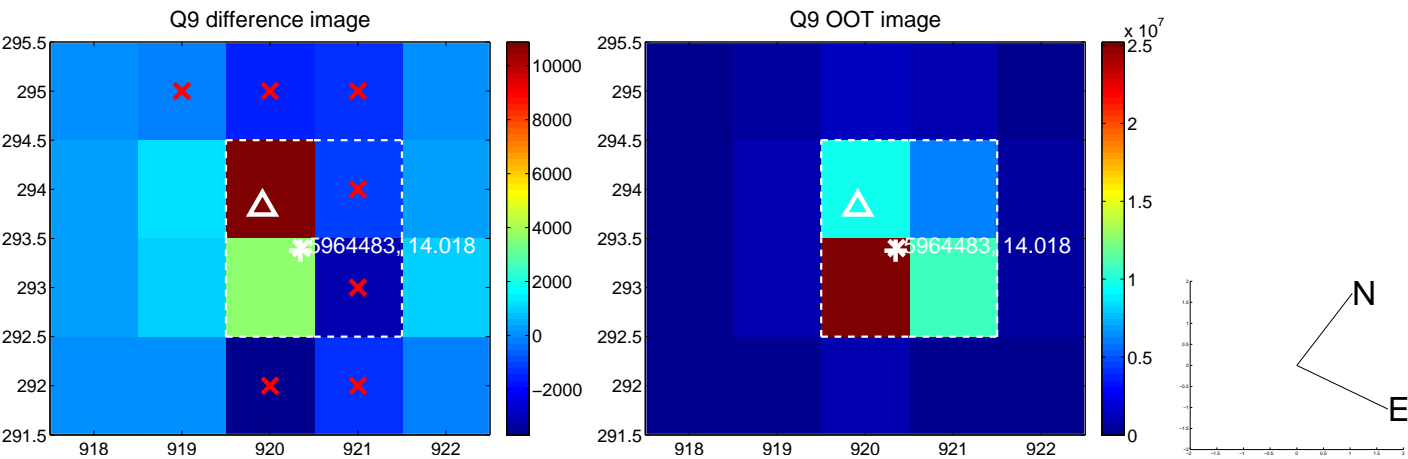
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



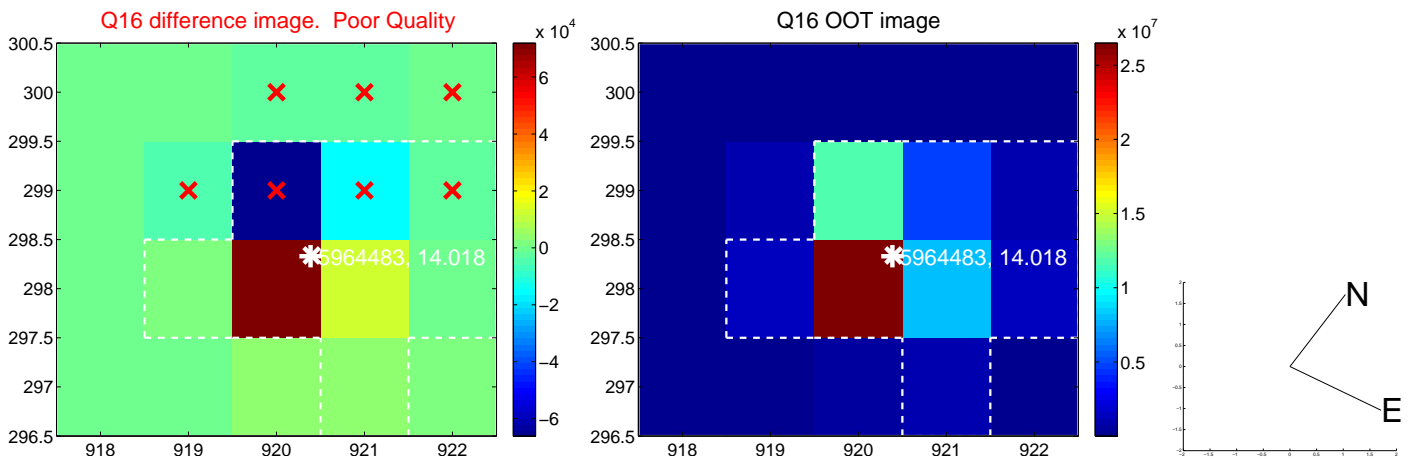
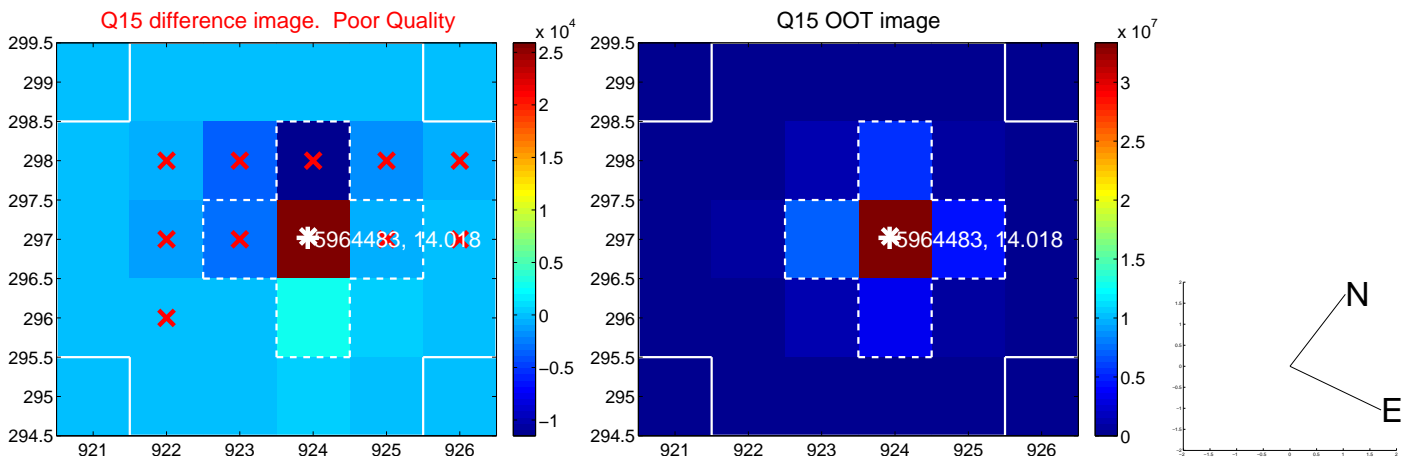
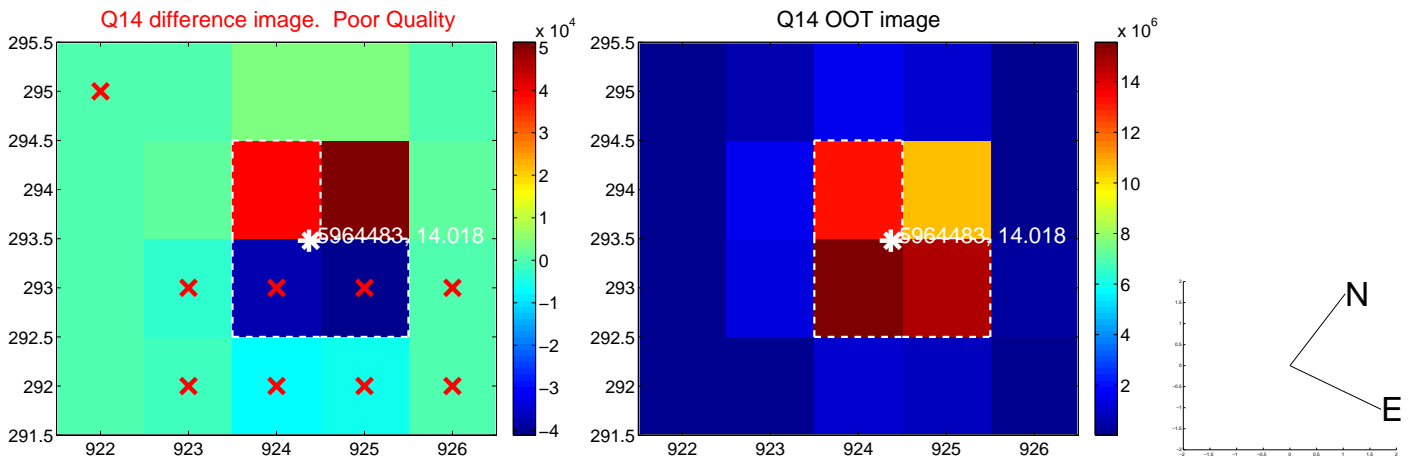
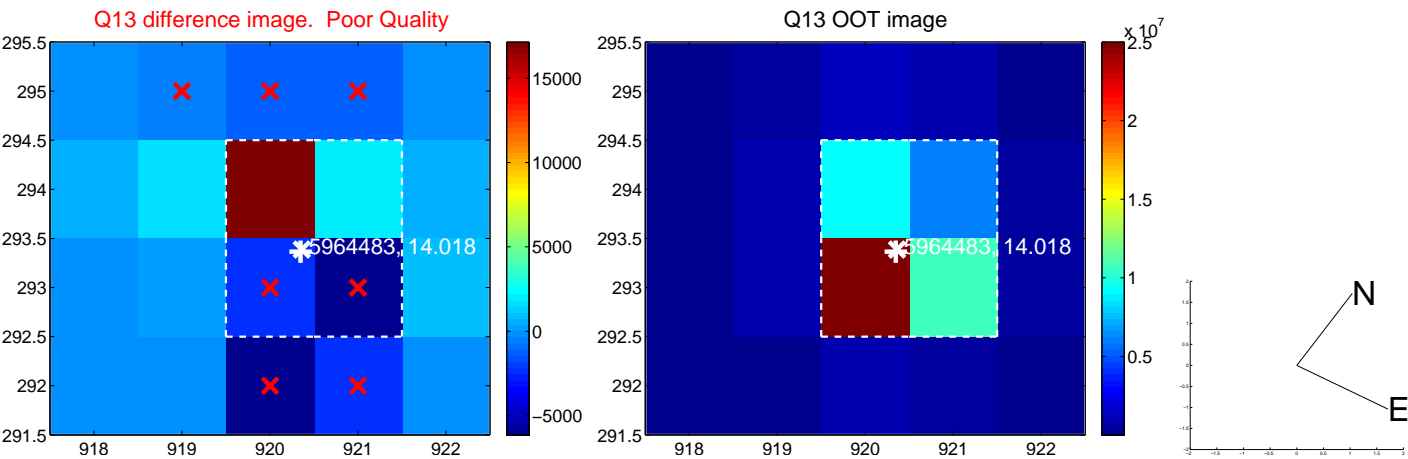
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



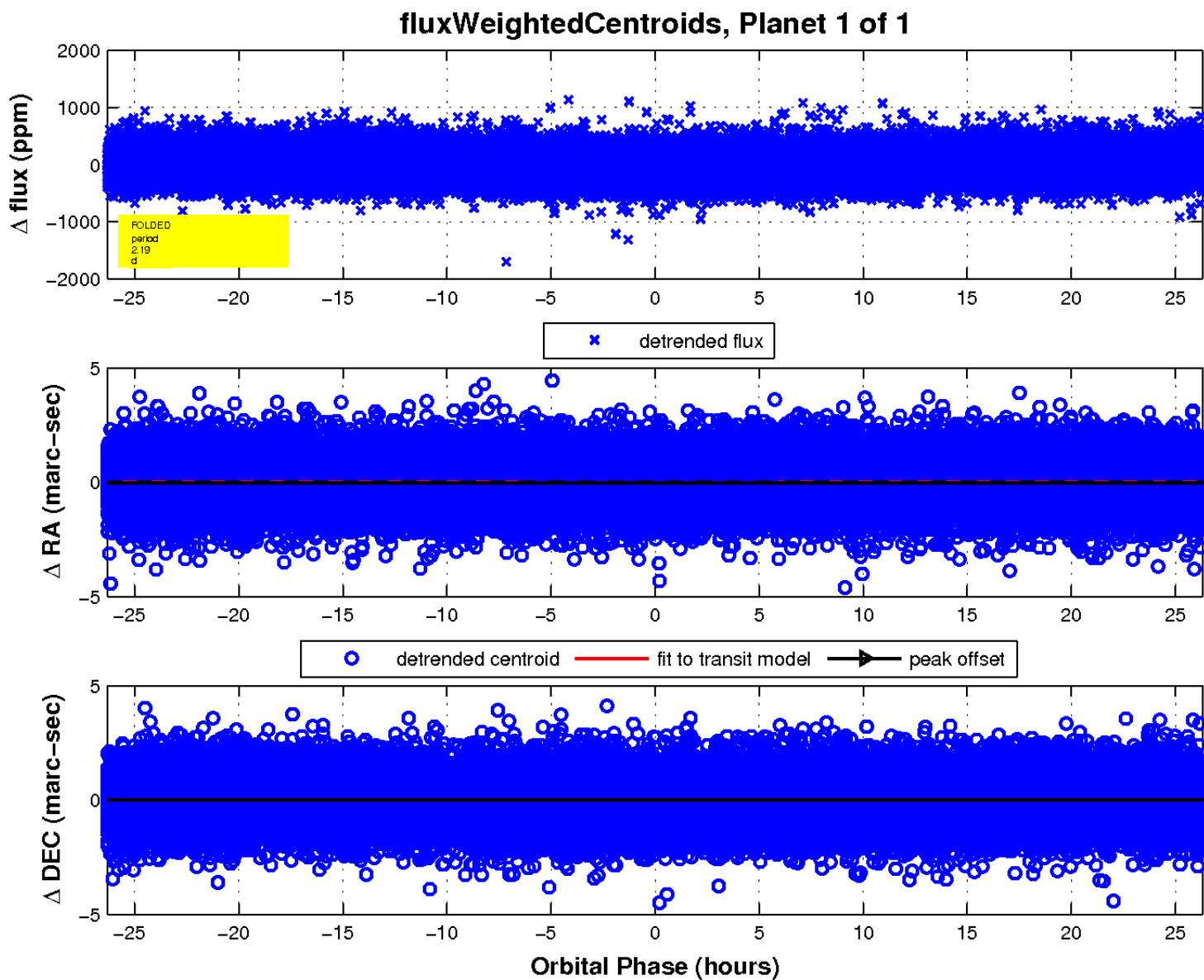
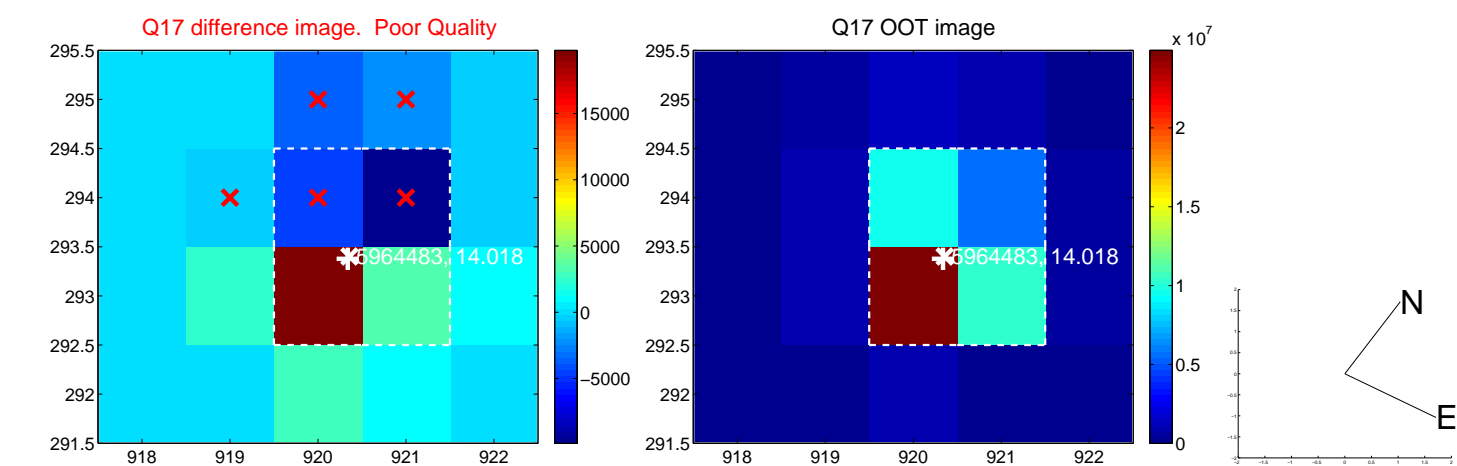
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

