

KIC 006691244

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})
006691244-01	OBS	No	0.630474	131.892444	508.7	2.000	12.0	-1.0	1.93	7705	4.42	39538.16

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006691244-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

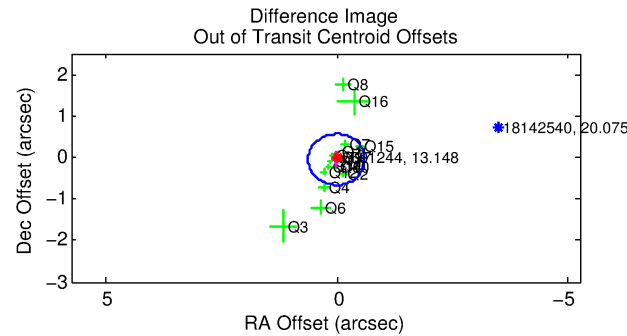
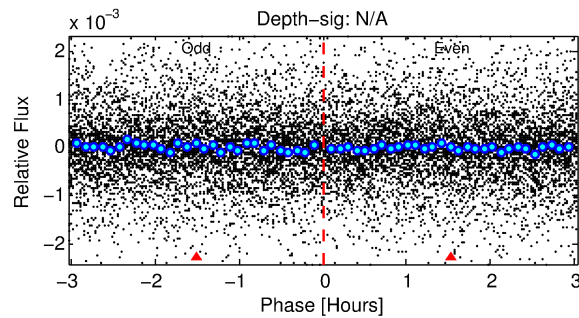
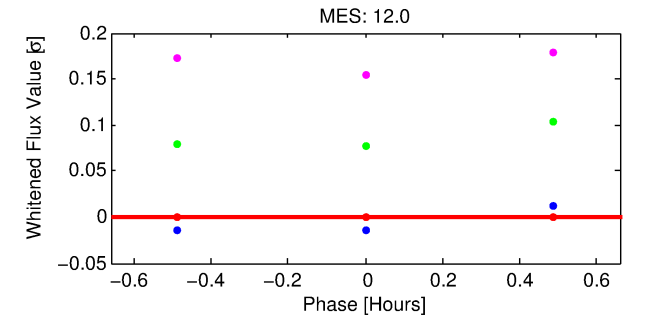
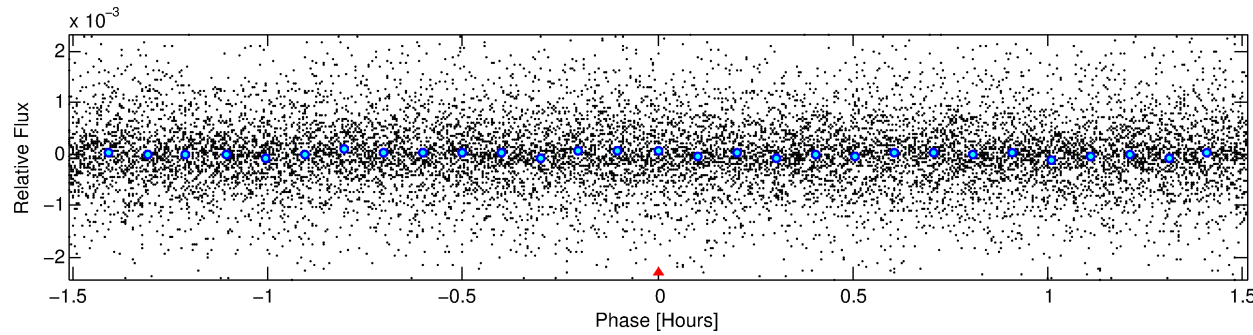
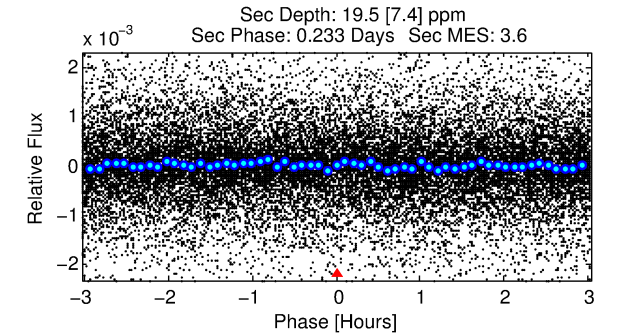
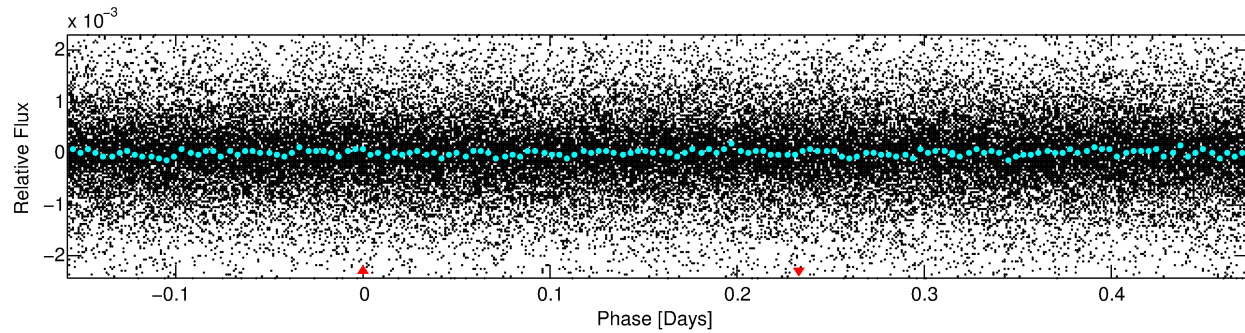
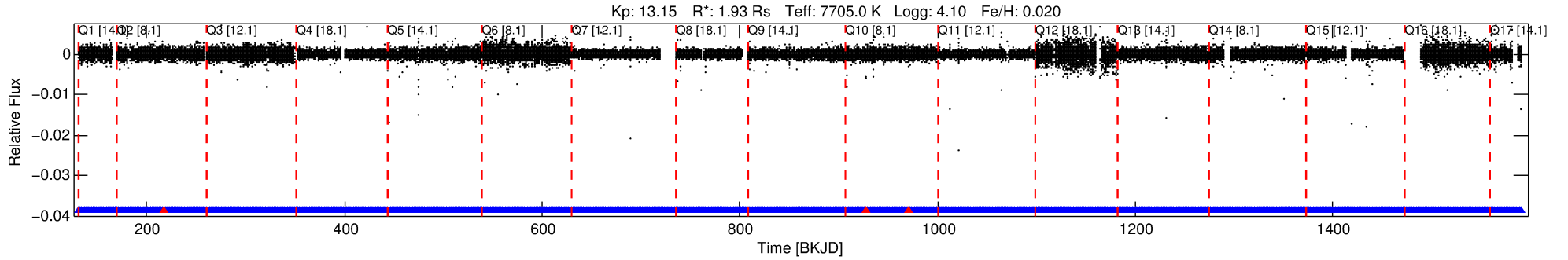
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006691244-01

No Significant Match Found

DV One-Page Summary

KIC: 6691244 Candidate: 1 of 1 Period: 0.630 d



TPS TCE Results:

Period = 0.63047 d
Epoch = 131.8924 BKJD

DV fit results are unavailable

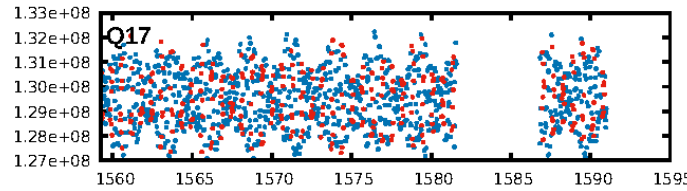
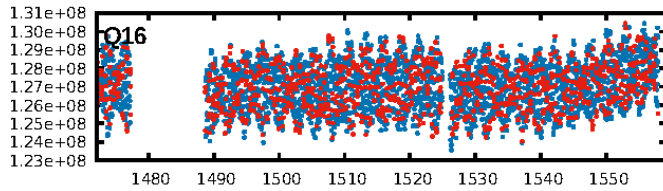
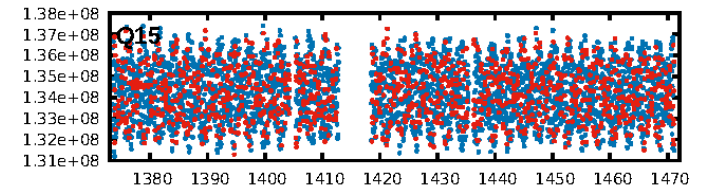
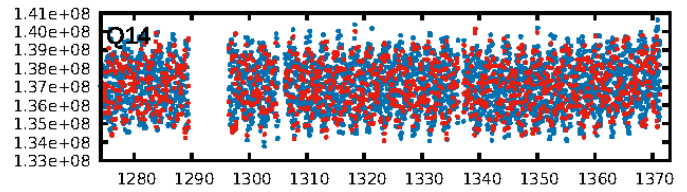
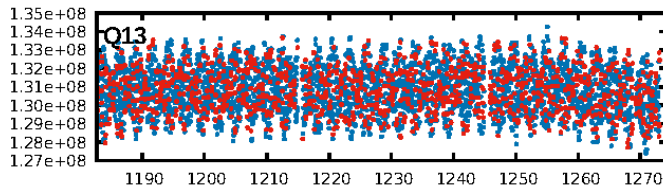
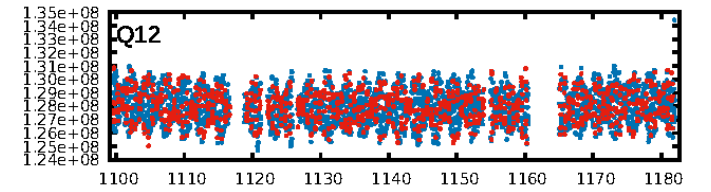
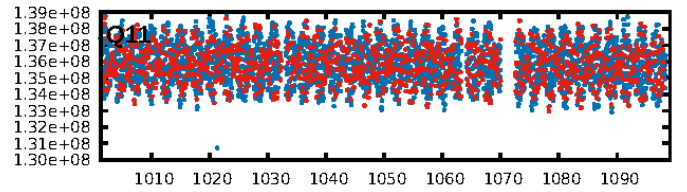
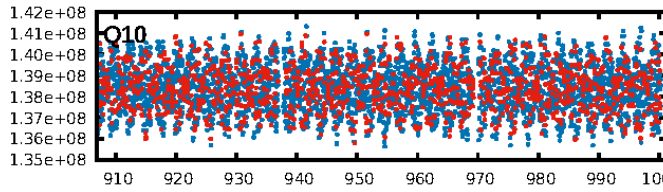
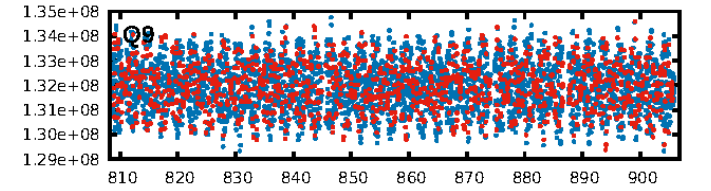
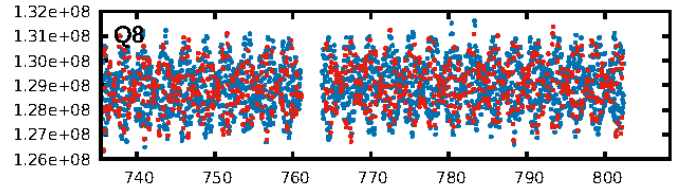
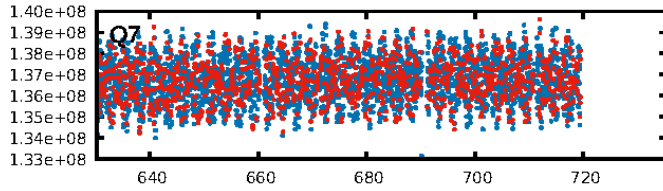
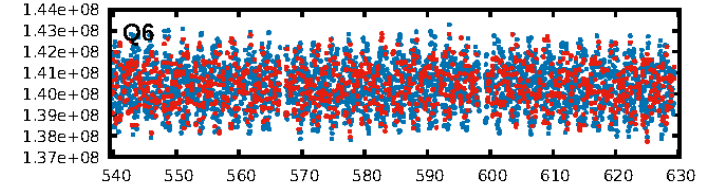
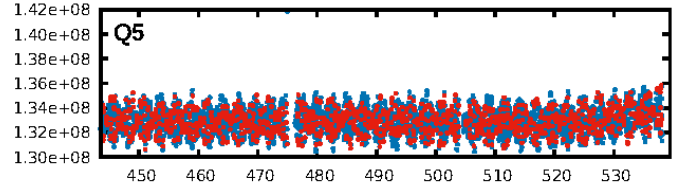
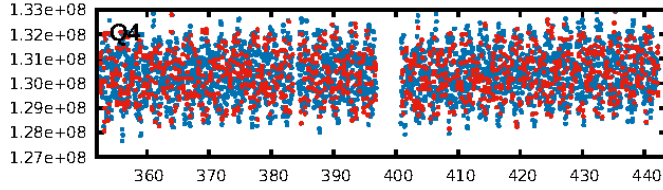
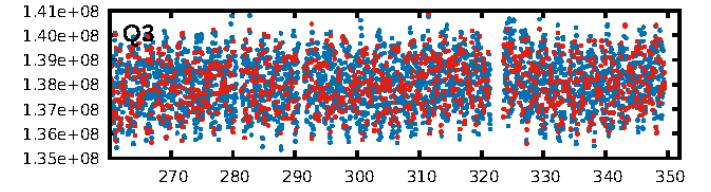
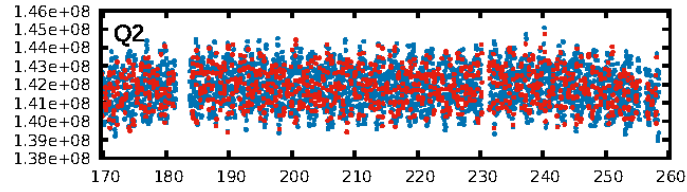
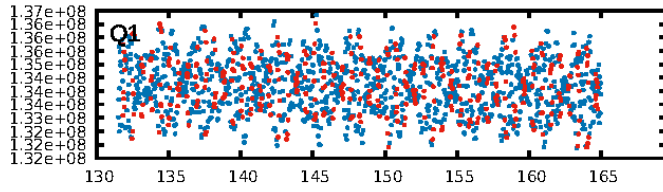
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.15e-36
RollingBand-fgt: 1.00 [2025/2028]
GhostDiagnostic-chr: -1.498
Centroid-sig: 0.0%
Centroid-so: 1.145 arcsec [3.04σ]
OotOffset-rm: 0.052 arcsec [0.26σ]
KicOffset-rm: 0.036 arcsec [0.35σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 1.00 [17/17]

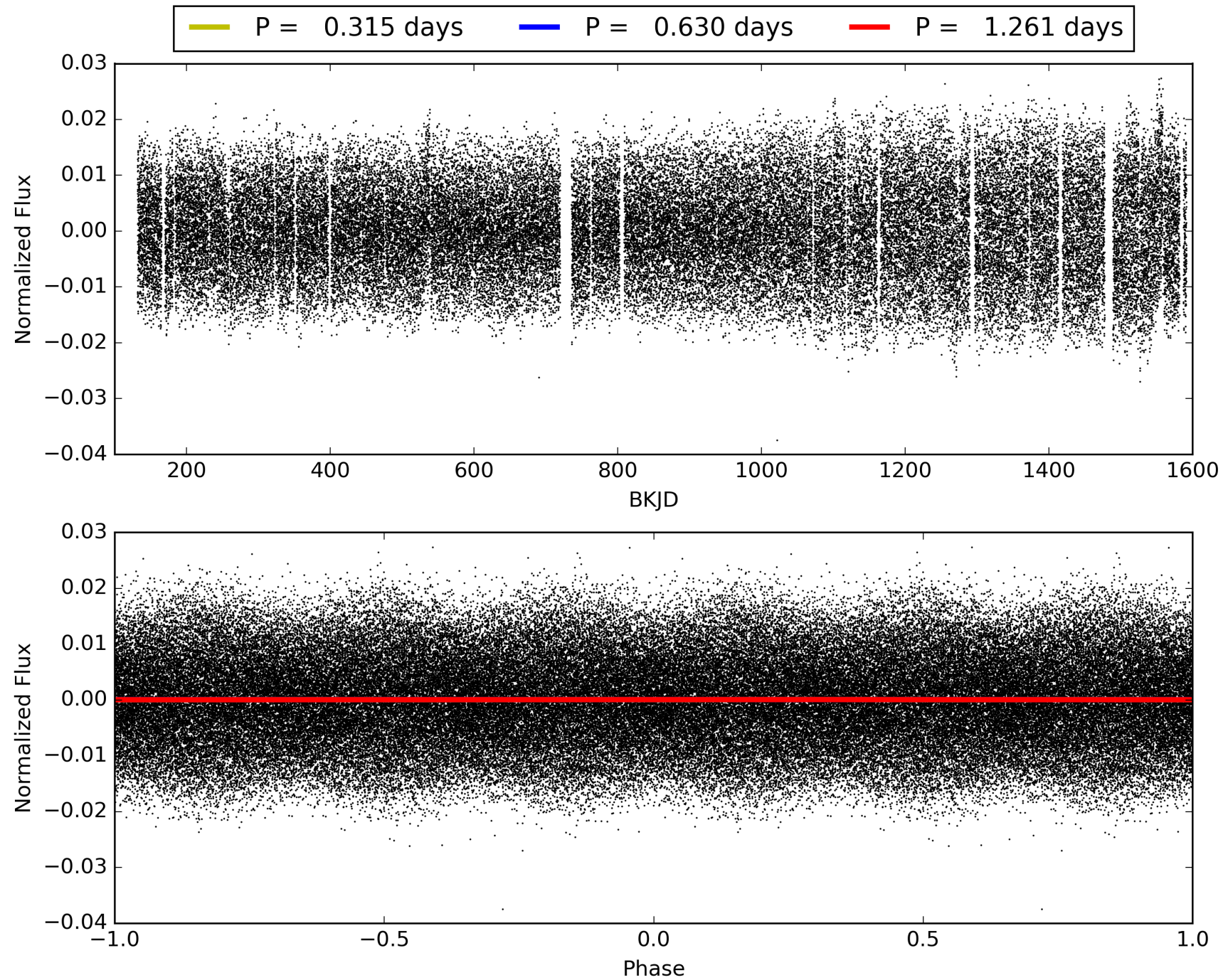
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 09:33:06 Z

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

TCE 006691244-01, PDC Light Curves

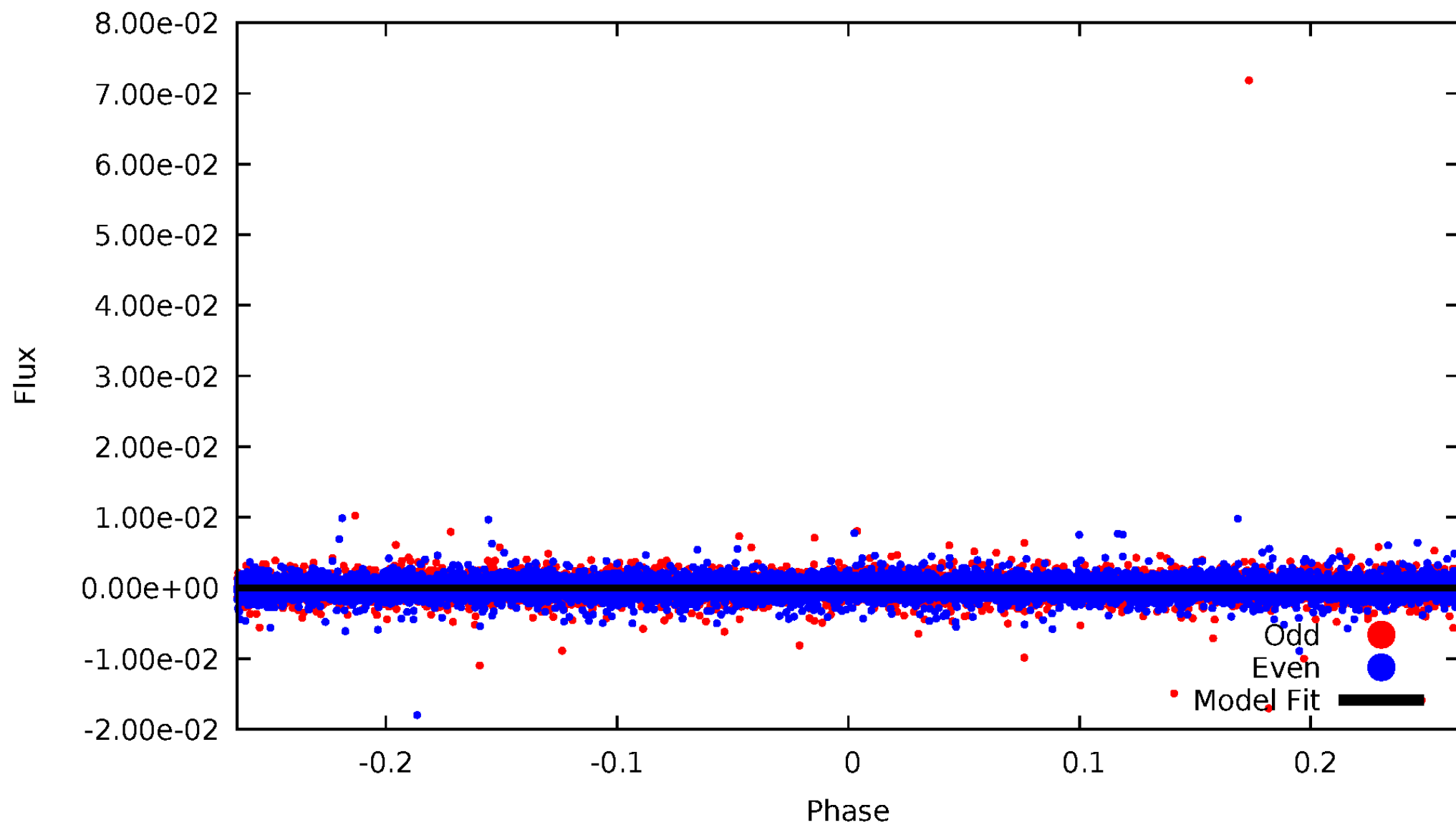


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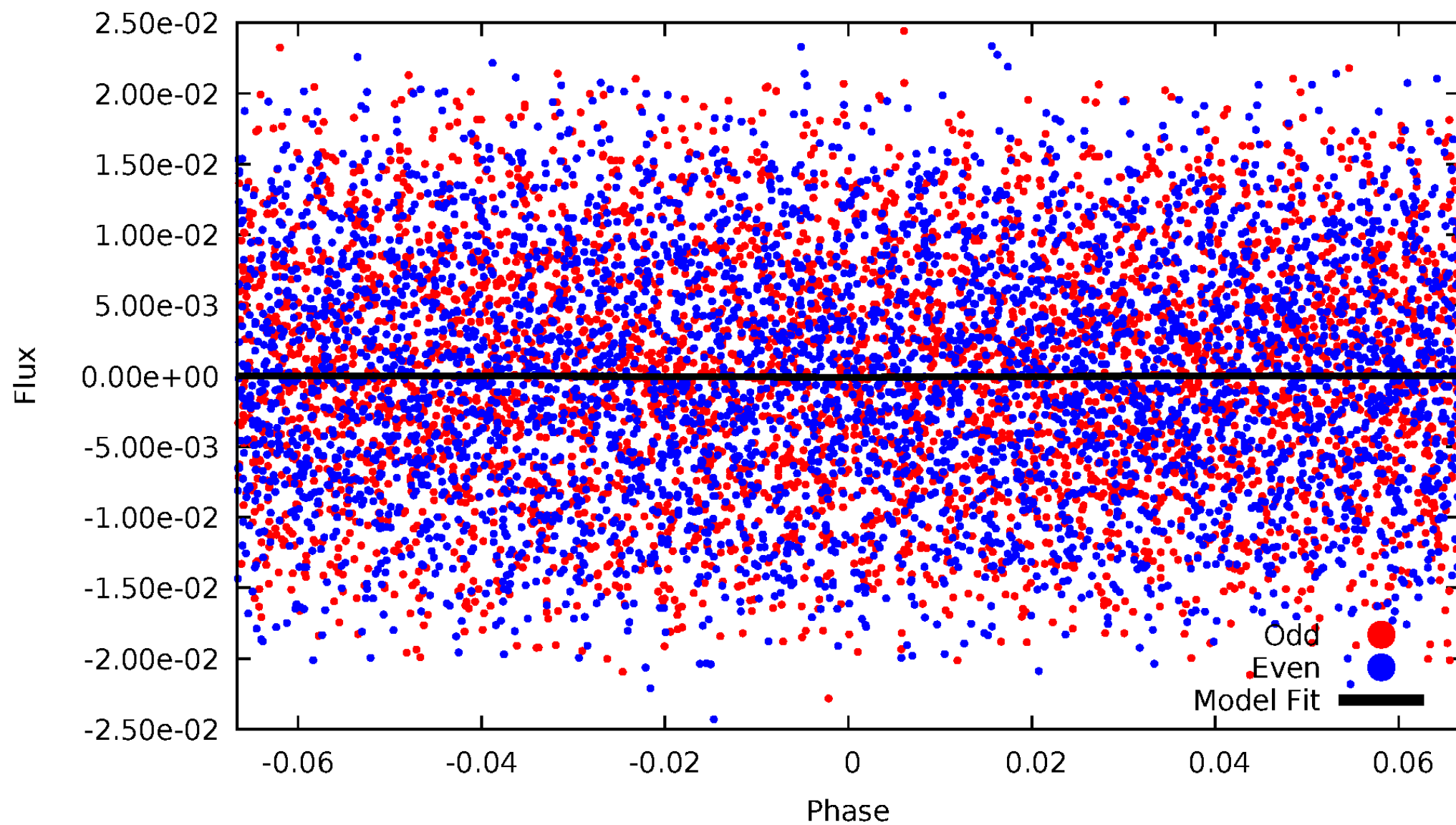
DV Odd/Even

TCE 006691244-01

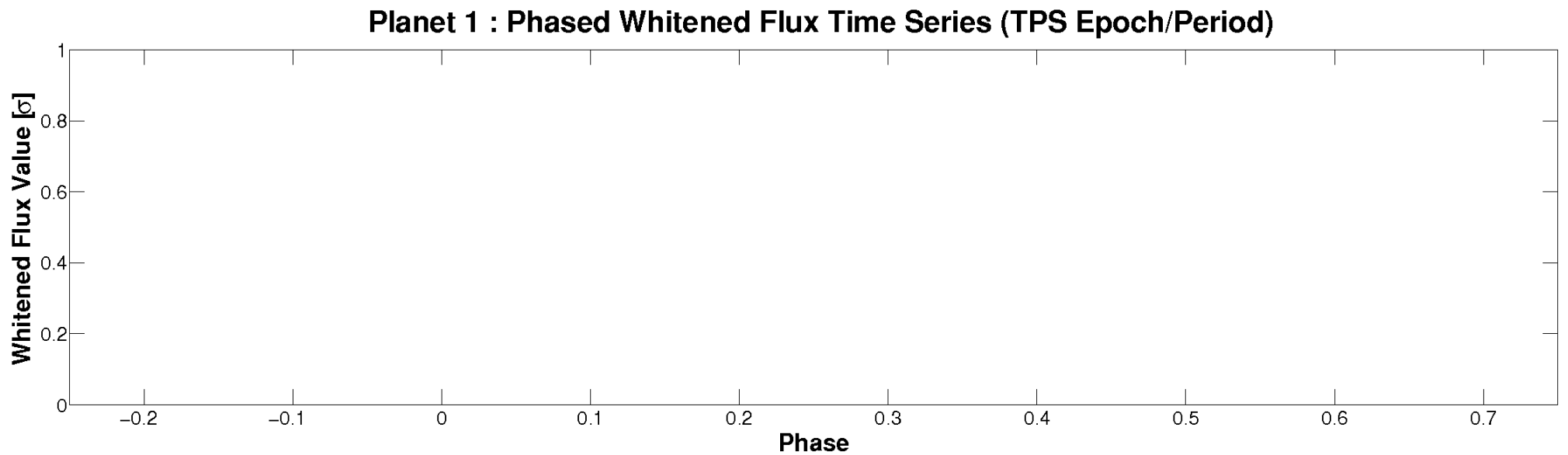
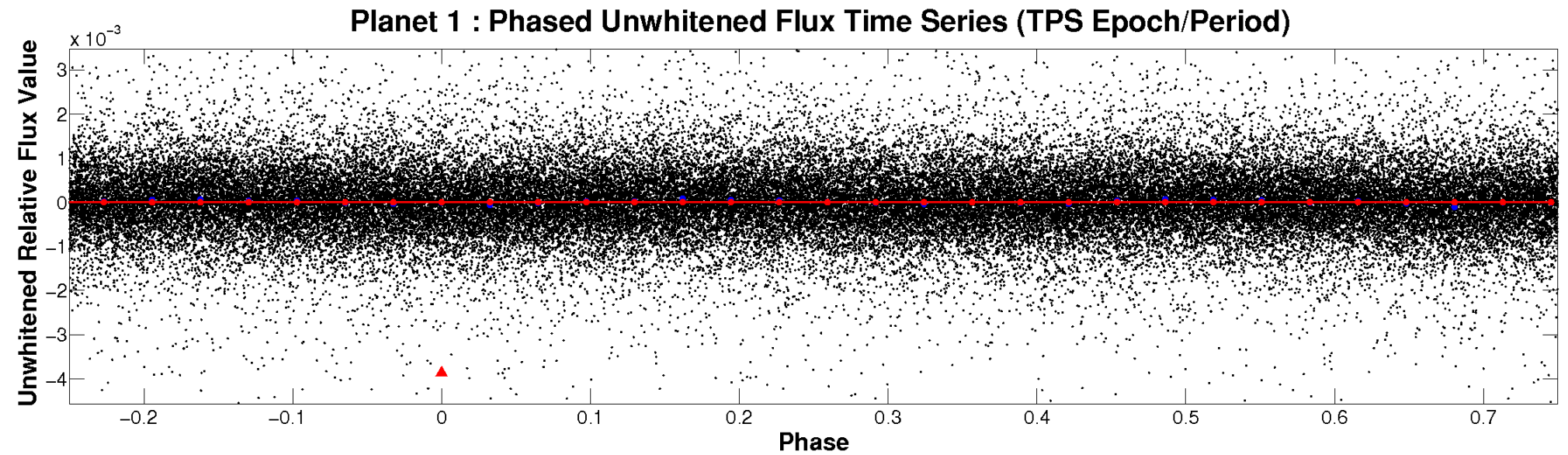


ALT Odd/Even

TCE 006691244-01

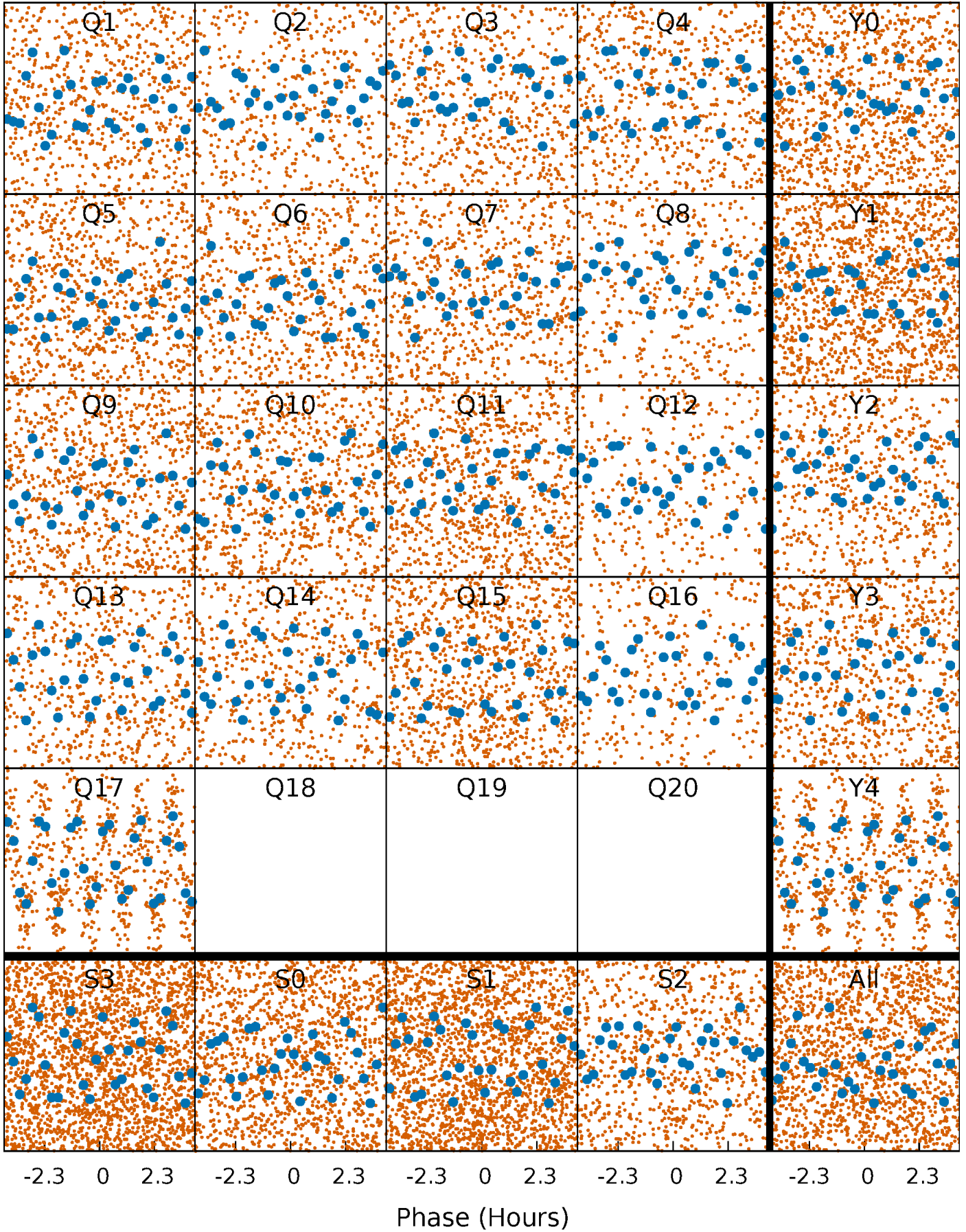


Non-Whitened Vs. Whitened Light Curve



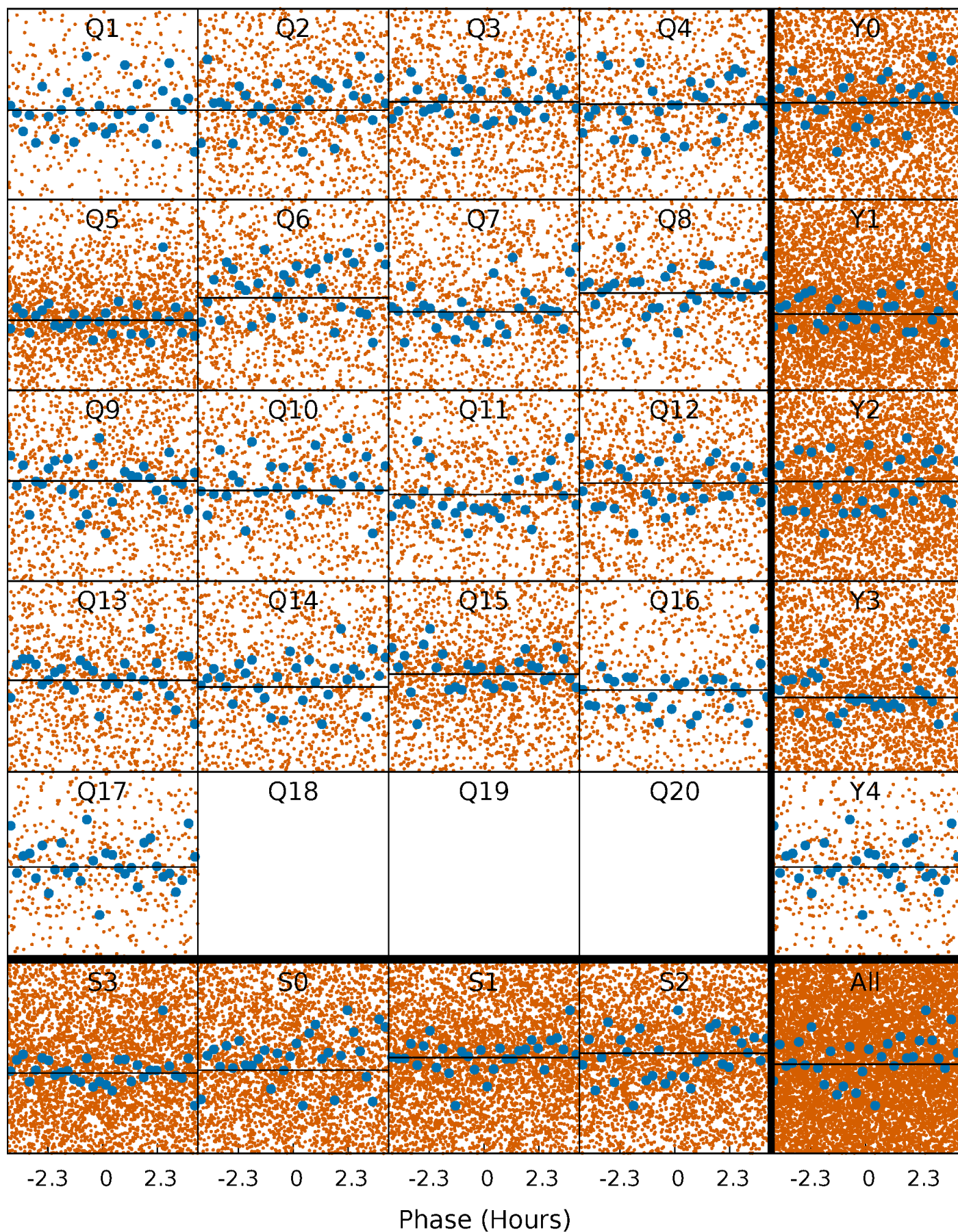
PDC Quarter-Phased Transit Curves

TCE 006691244-01 P= 0.630474 Days $T_0=131.892444$ (BKJD)



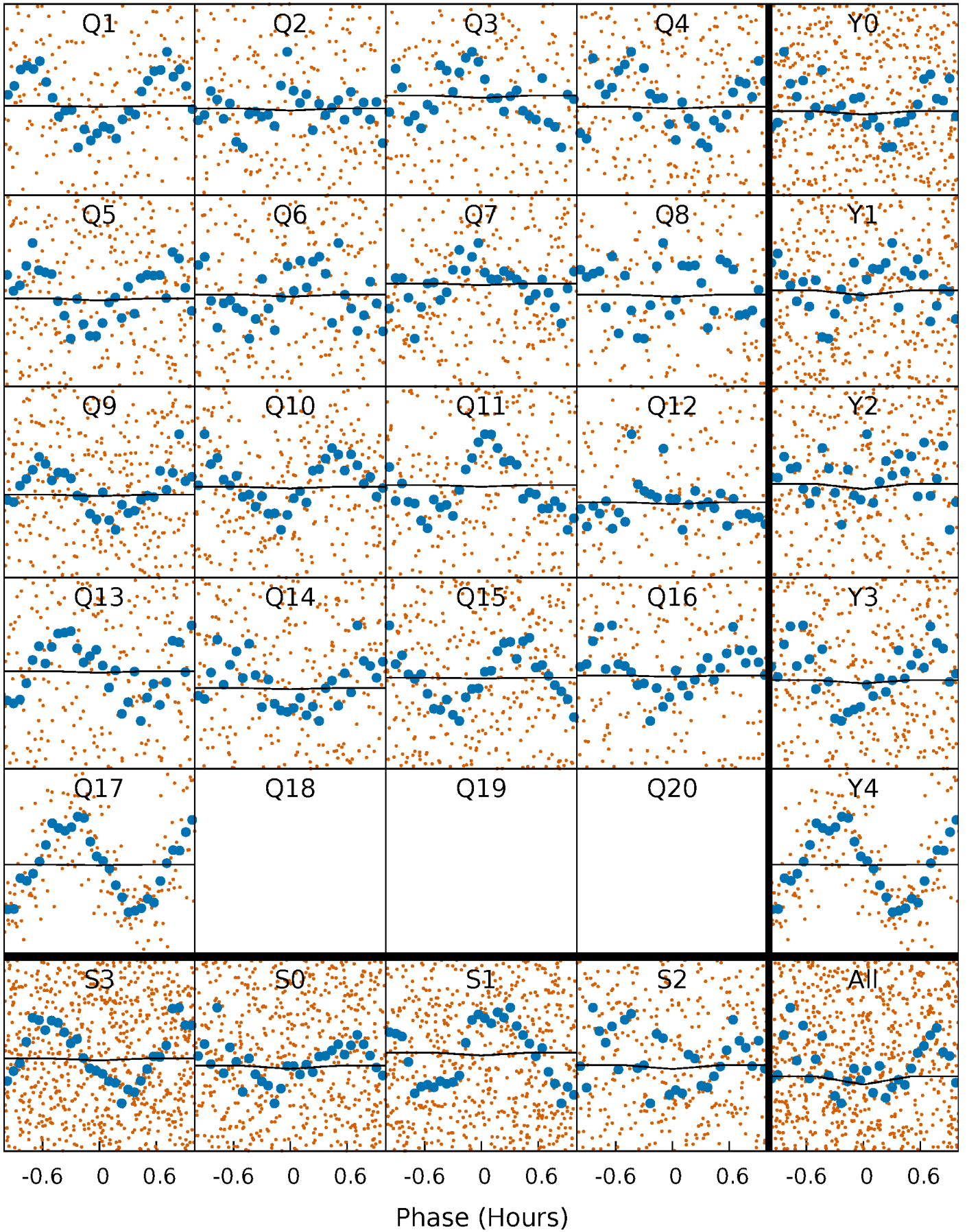
DV Quarter-Phased Transit Curves

TCE 006691244-01 P= 0.630474 Days $T_0=131.892444$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

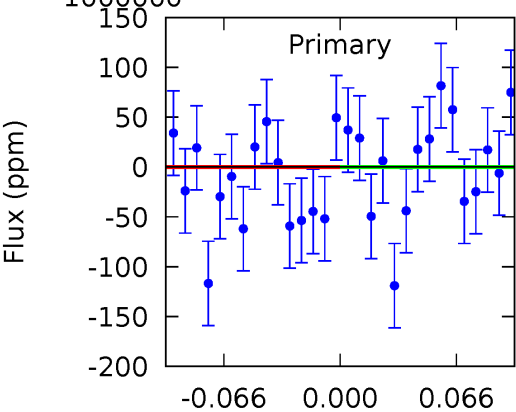
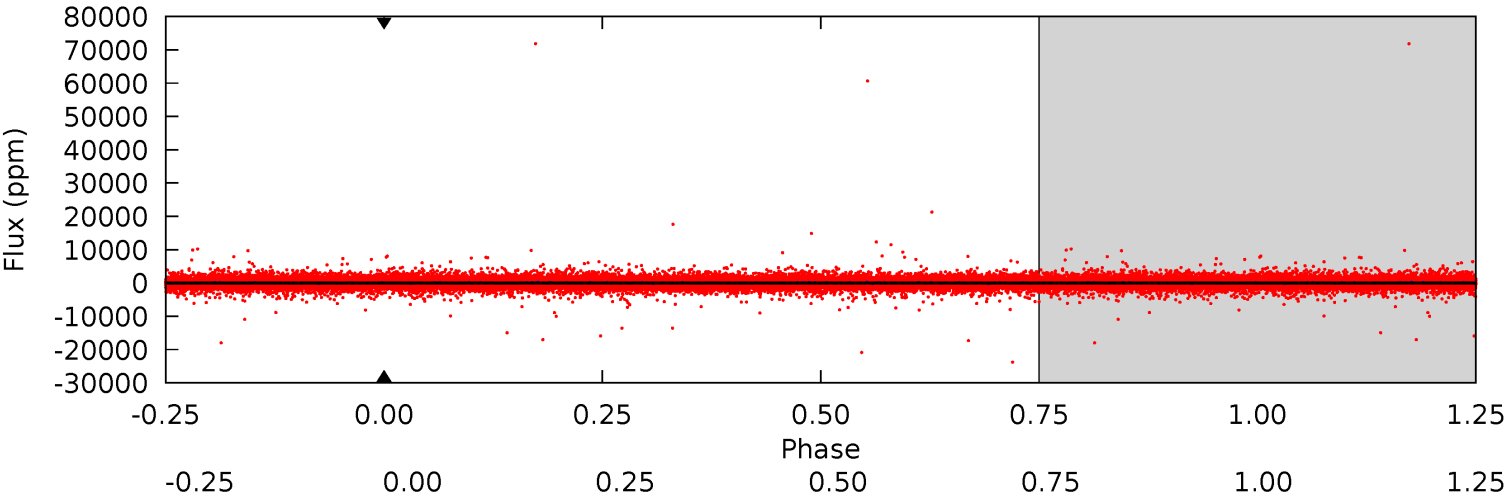
TCE 006691244-01 P= 0.630474 Days $T_0=131.803259$ (BKJD)



DV Model-Shift Uniqueness Test

006691244-01, P = 0.630474 Days, E = 131.261970 Days

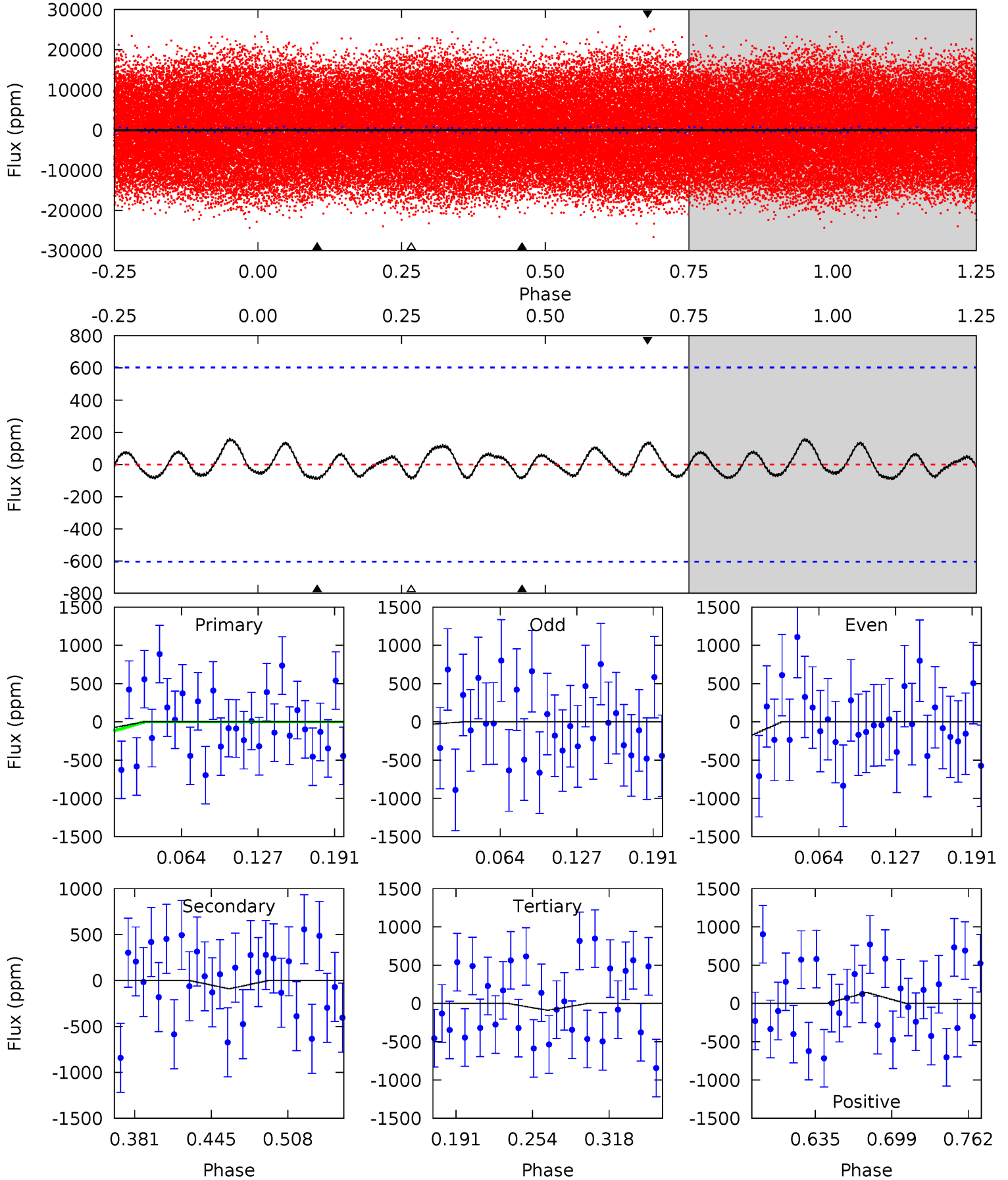
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006691244-01, P = 0.630474 Days, E = 131.172785 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.72	0.69	0.68	1.09	4.66	1.86	0.49	0.03	-0.38	0.01	-0.40	0.74	0.57	0.64	0.45



Stellar Parameters For KIC 006691244

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7705^{+214}_{-322}	$4.102^{+0.135}_{-0.165}$	$0.020^{+0.200}_{-0.350}$	$1.927^{+0.540}_{-0.405}$	$1.713^{+0.194}_{-0.291}$	$0.337^{+0.230}_{-0.159}$
	+3%/-4%	+3%/-4%	+1000%/-1750%	+28%/-21%	+11%/-17%	+68%/-47%
Source	KIC0	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 006691244-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$16.67^{+16.84}_{-11.50}$	5031^{+350}_{-323}	-4100^{+42450}_{-32035}	$-0.114^{+111.335}_{-95.720}$
Alt.	-90 ± 130	$14.31^{+16.25}_{-9.92}$	5044^{+335}_{-332}	-4127^{+8604}_{-374}	$0.038^{+0.680}_{-0.067}$

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

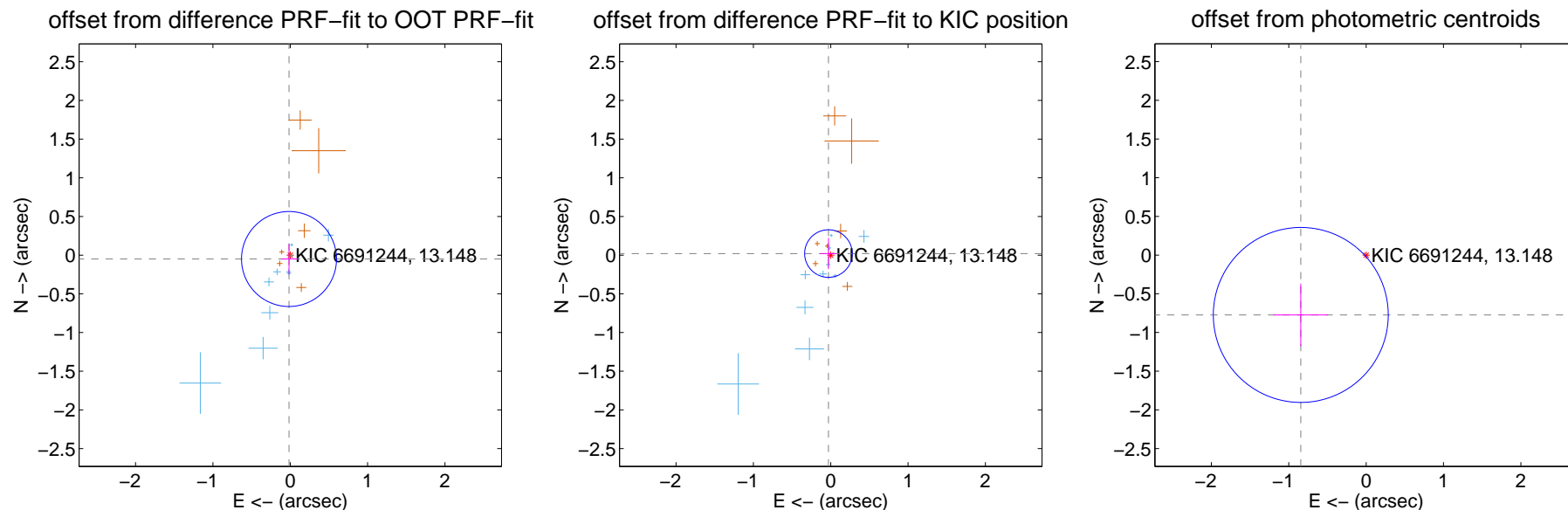
DV Centroid Data

Supplemental centroid analysis for 006691244-01. Kepler magnitude: 13.15. Transit SNR -1.00

There are 10 quarters with good PRF difference image offsets

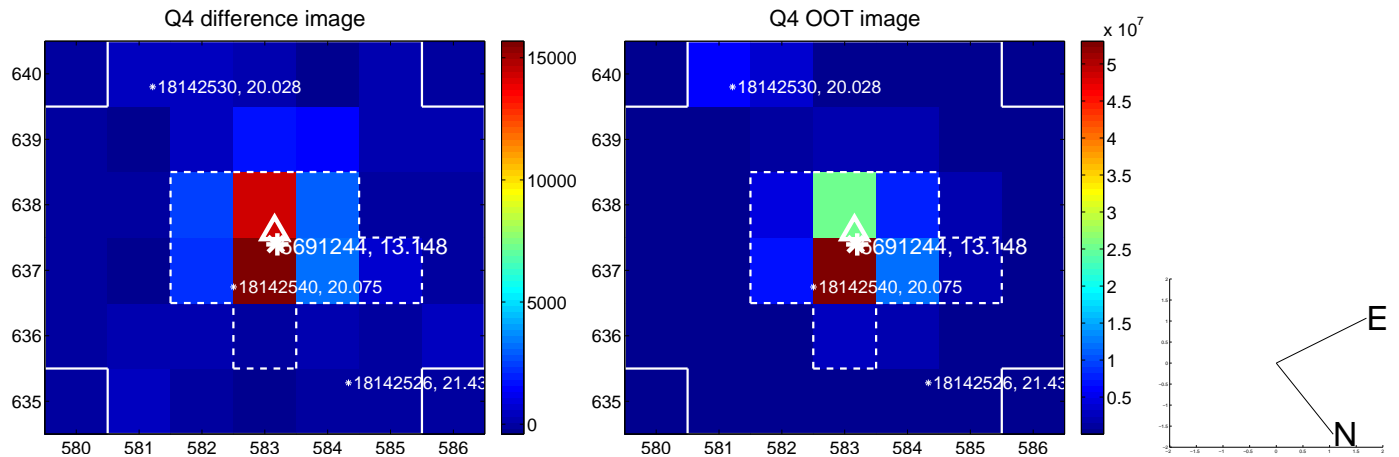
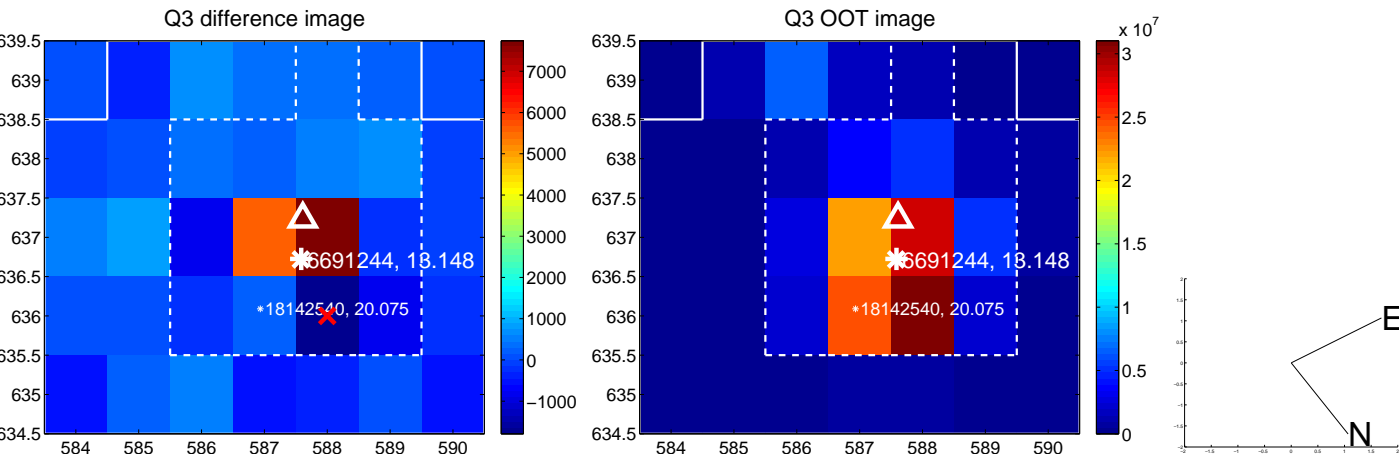
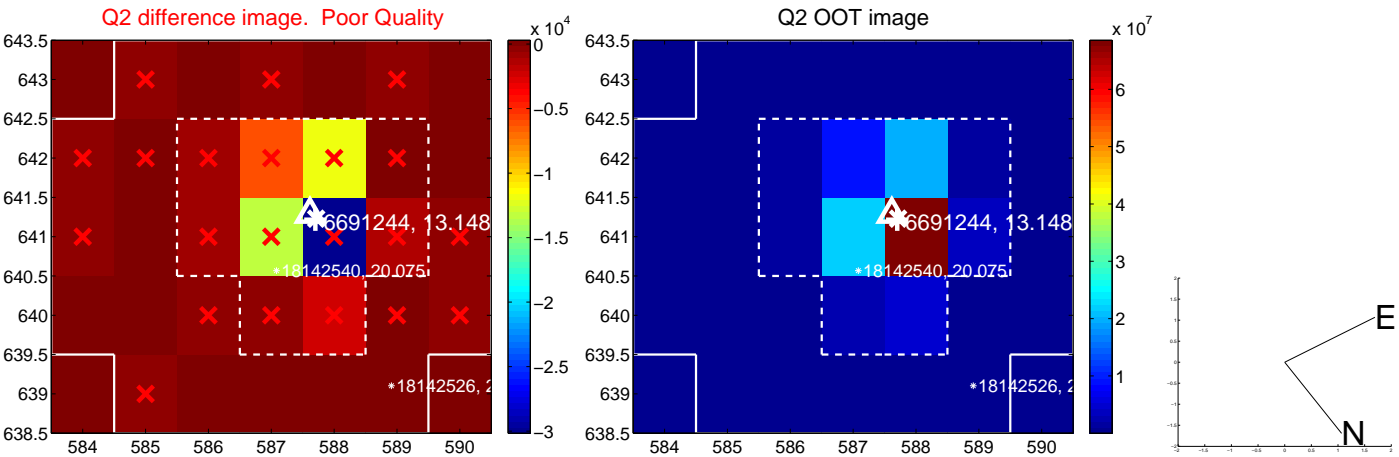
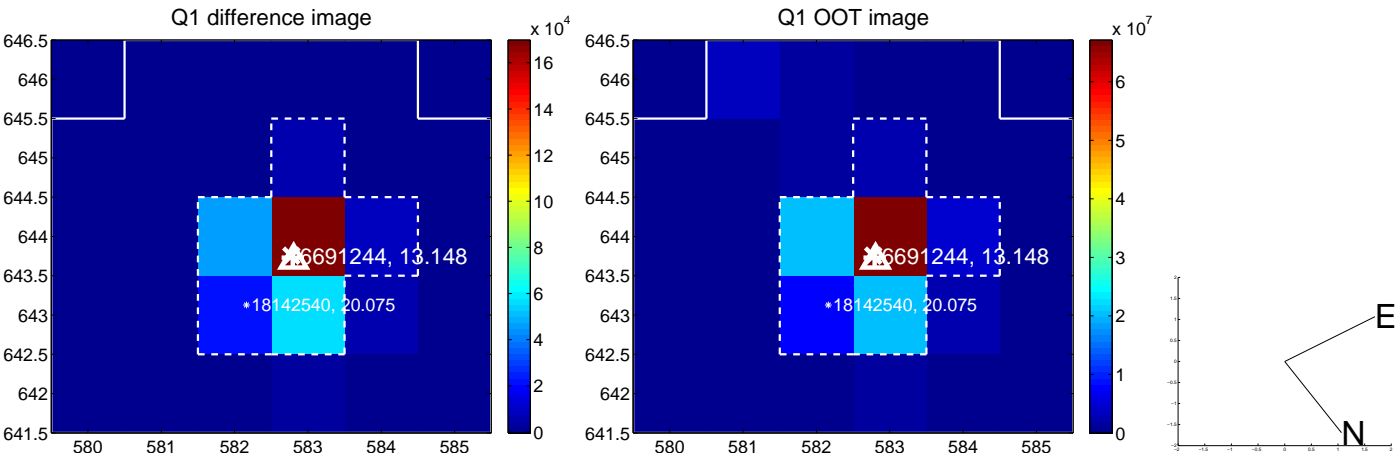
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.052 ± 0.205	0.26	0.016 ± 0.103	-0.050 ± 0.195
PRF-fit source offset from KIC position	0.036 ± 0.102	0.35	0.030 ± 0.108	0.021 ± 0.201
photometric centroid source offset	1.15 ± 0.38	3.04	0.84 ± 0.35	-0.77 ± 0.40

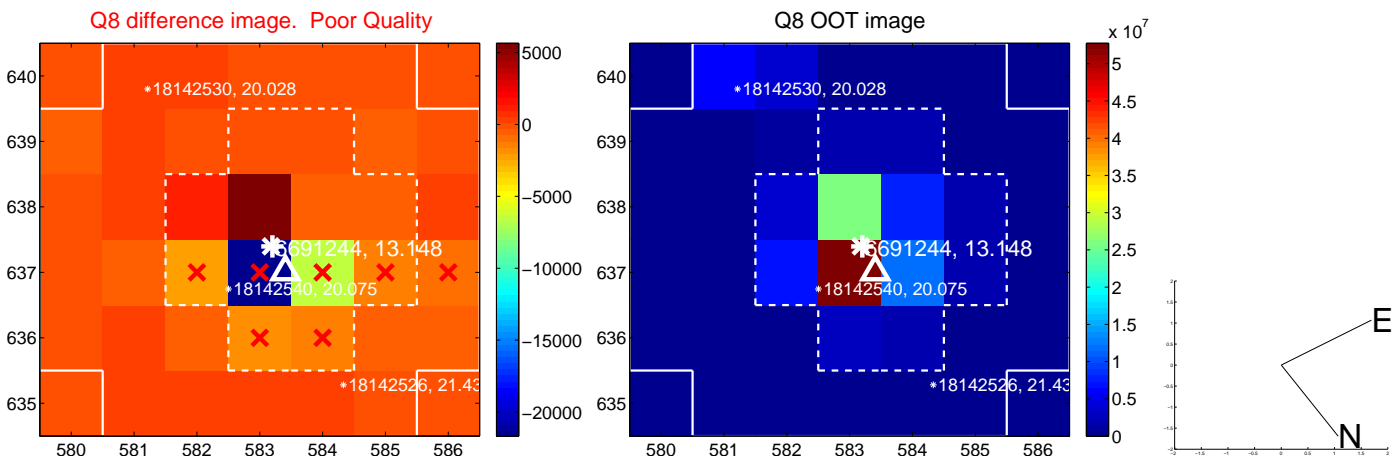
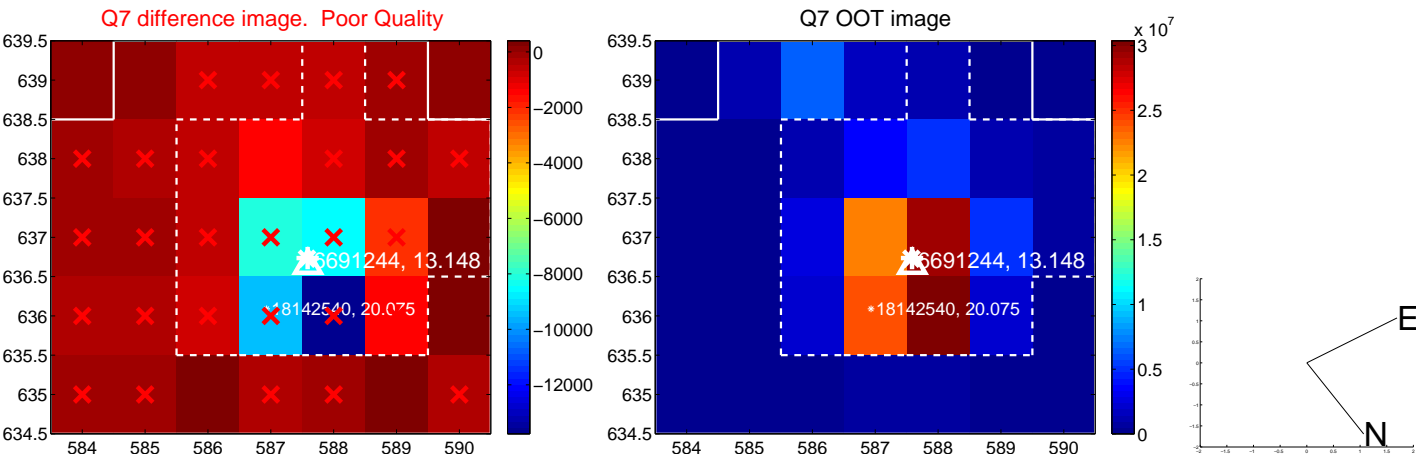
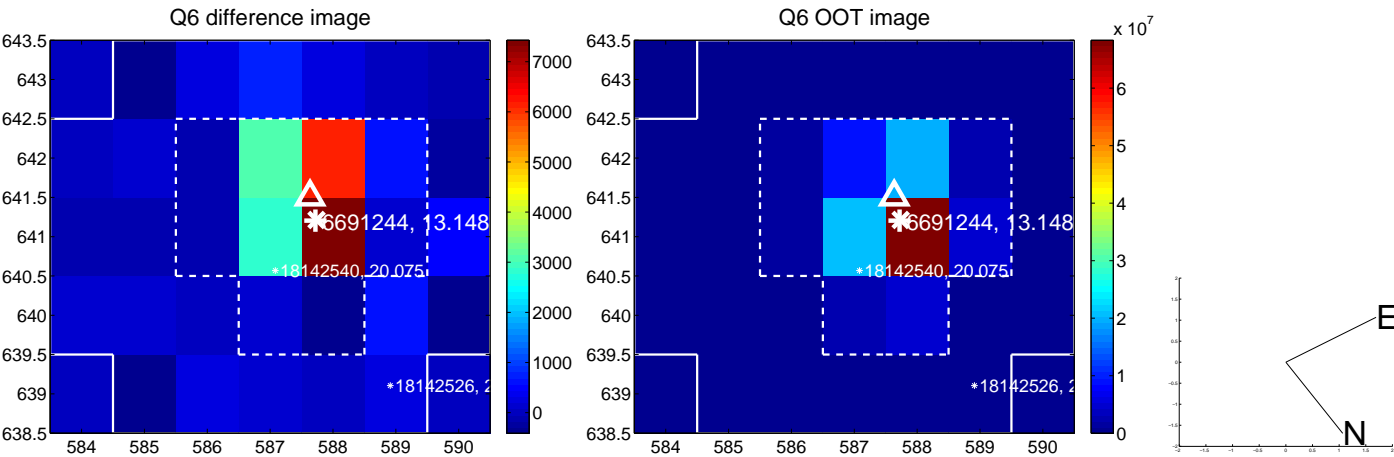
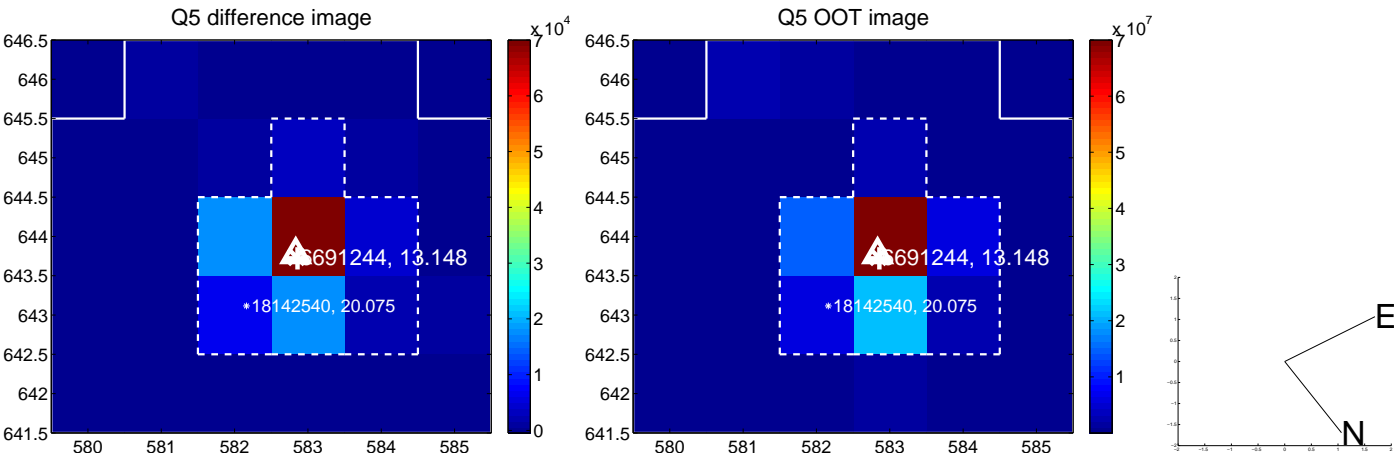


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

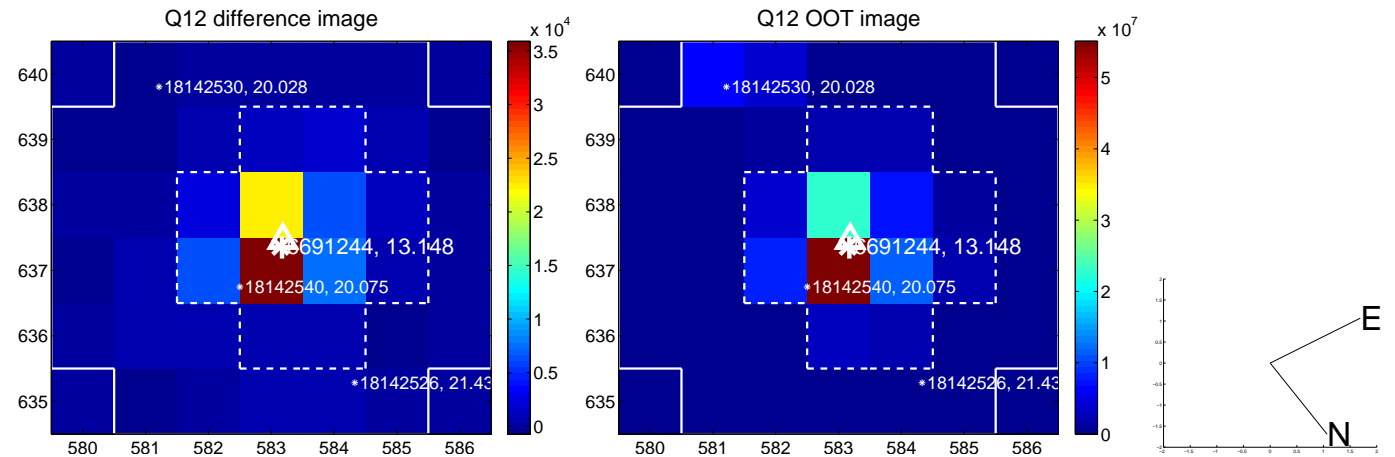
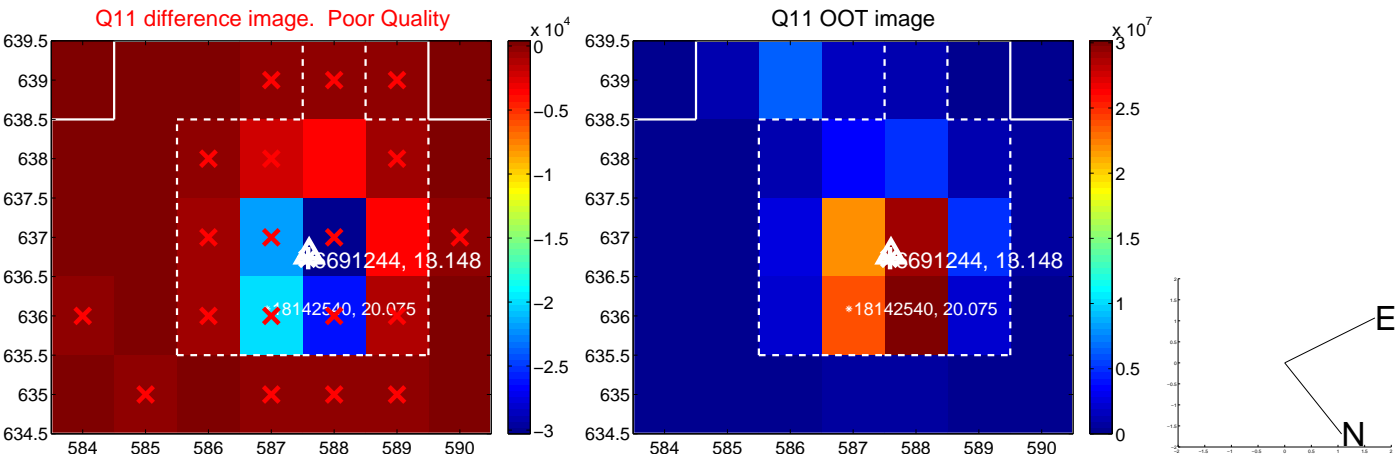
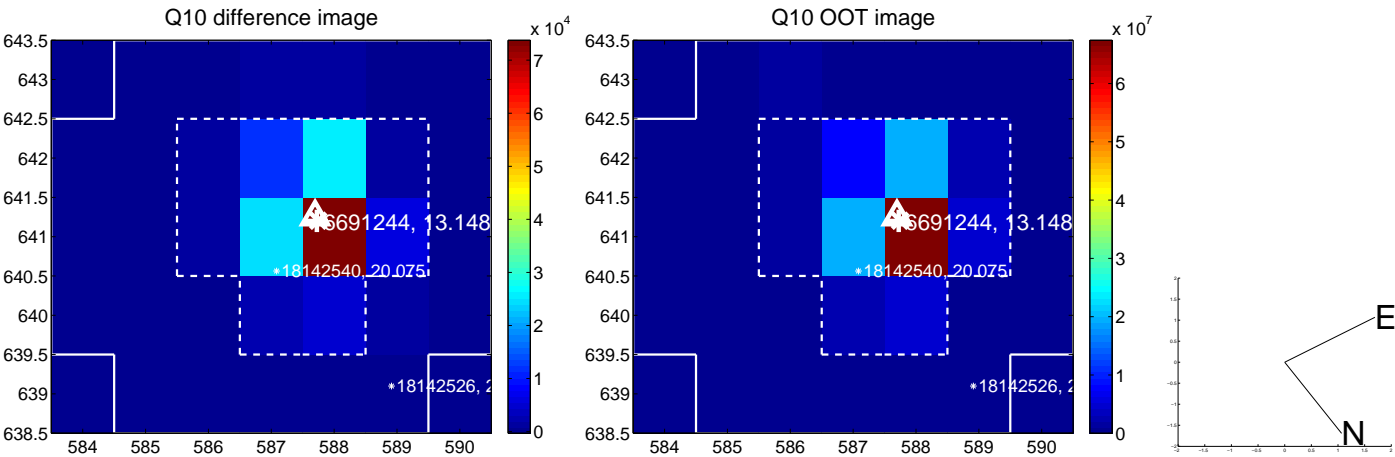
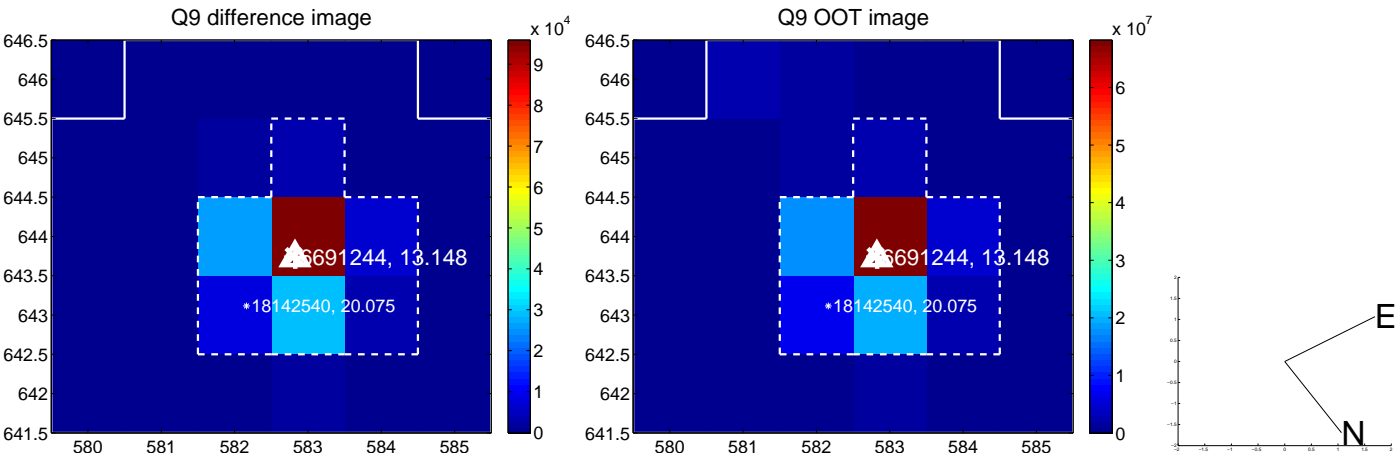
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



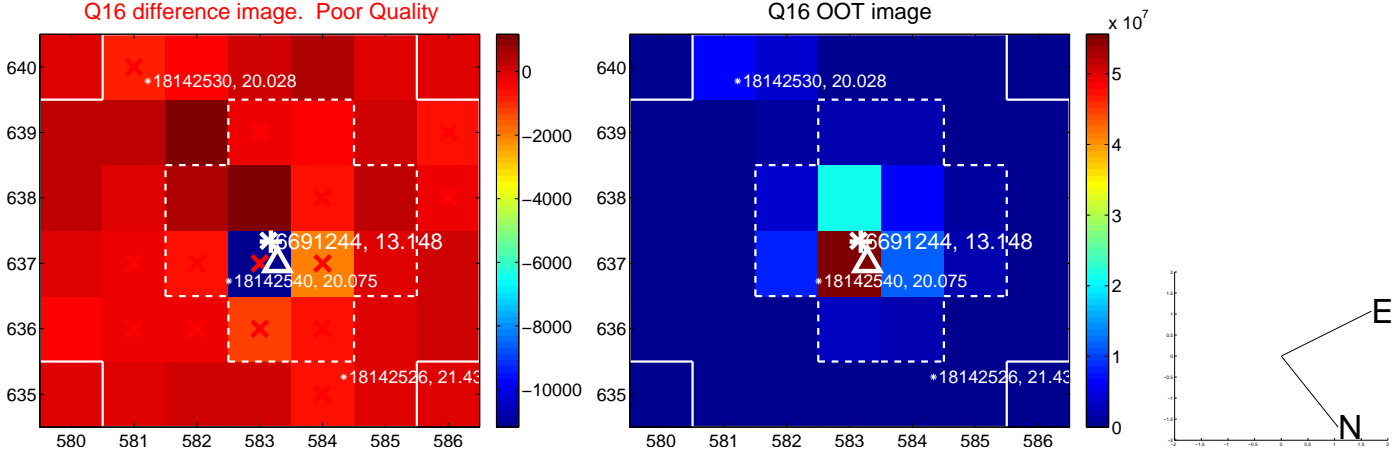
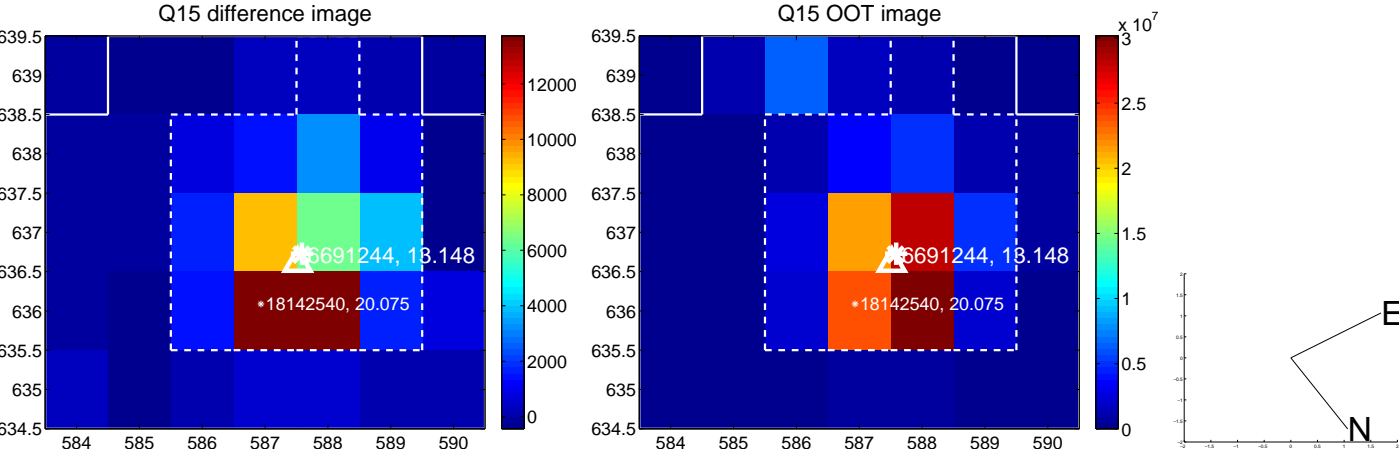
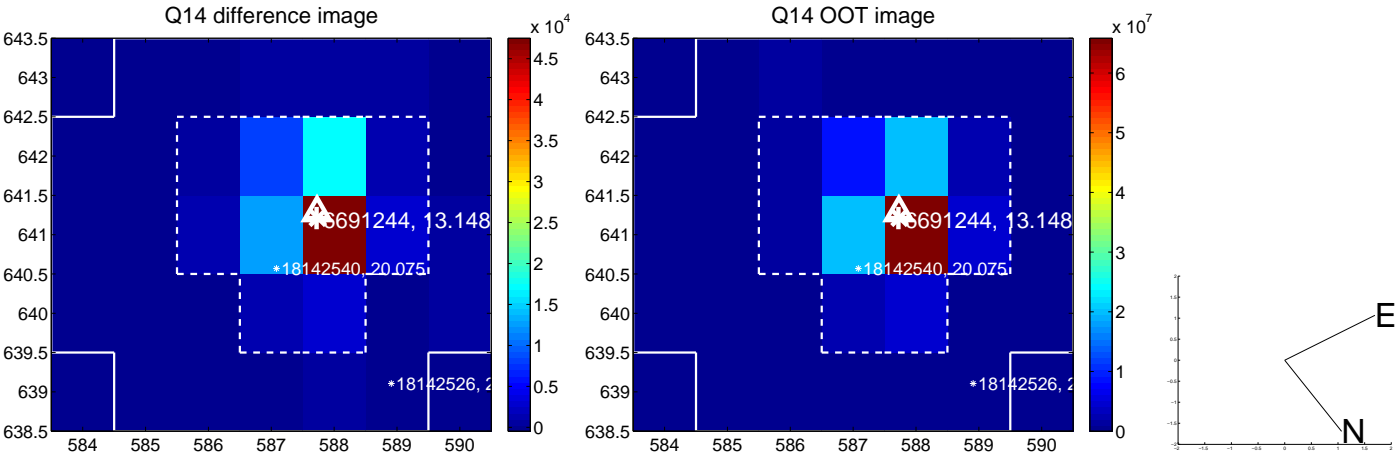
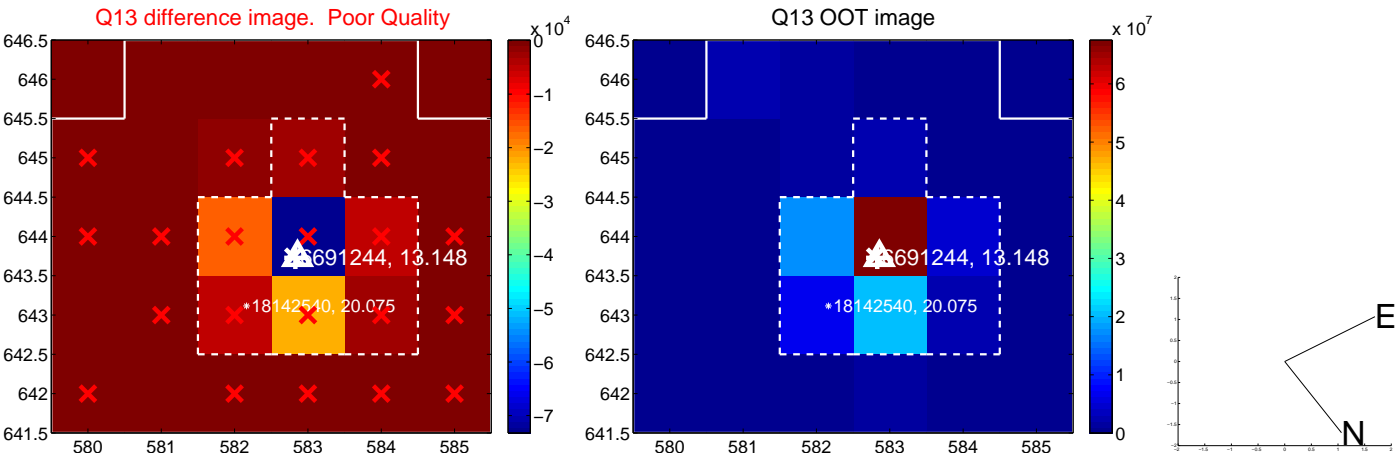
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



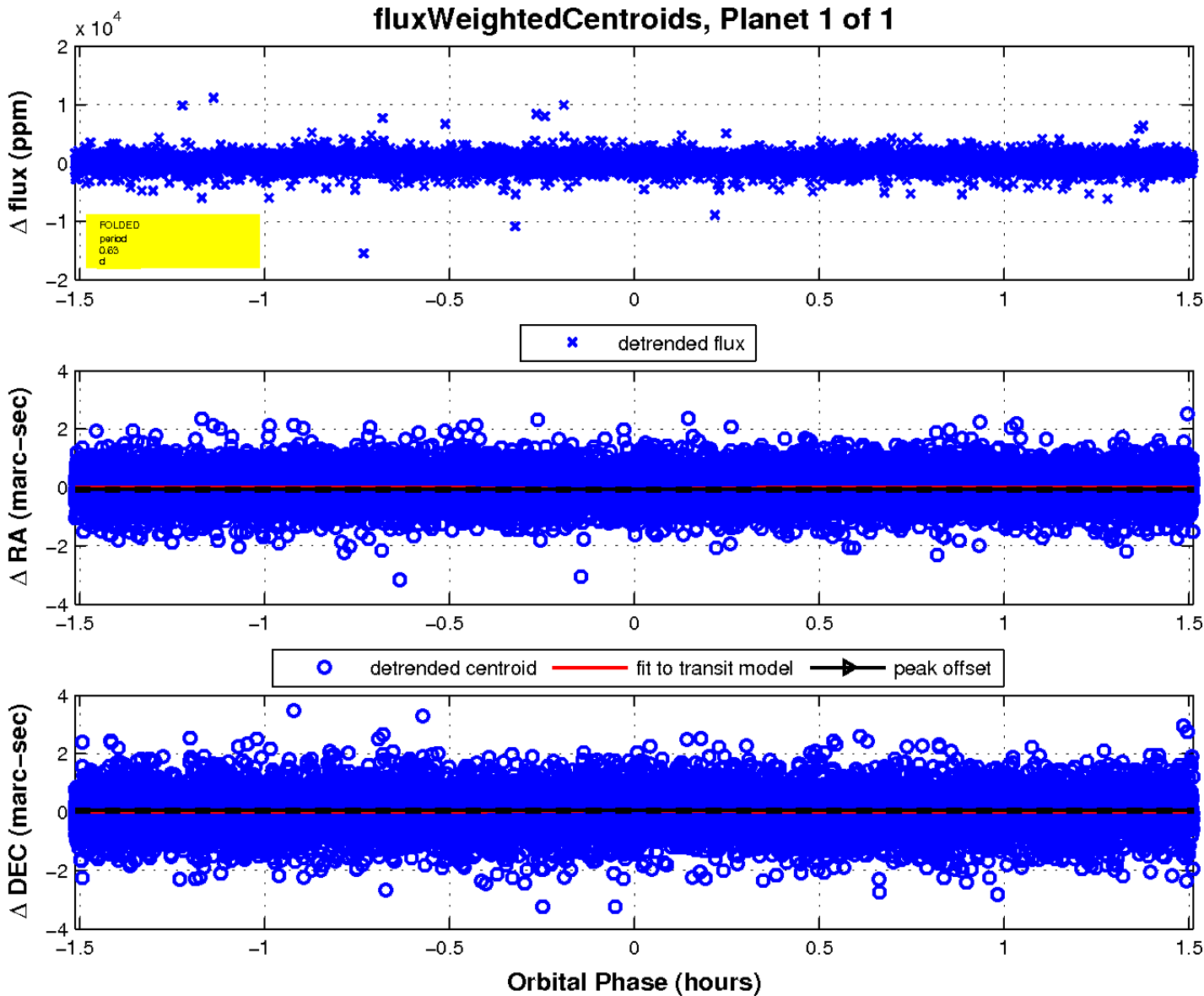
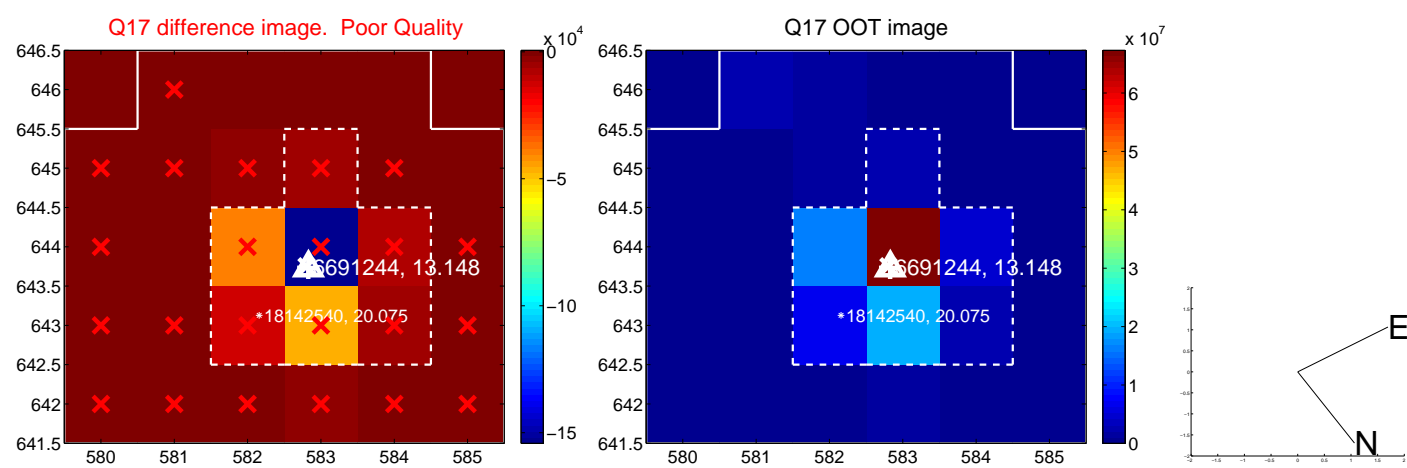
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

