

KIC 006595315

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})
006595315-01	OBS	No	2.337489	133.084534	142.4	7.013	7.6	5.8	2.26	7677	3.01	9293.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006595315-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

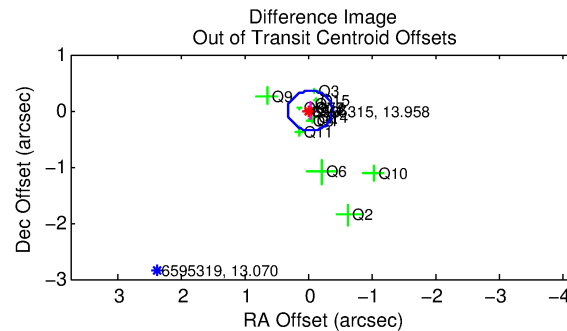
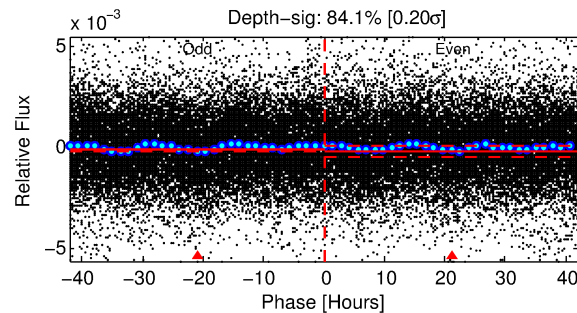
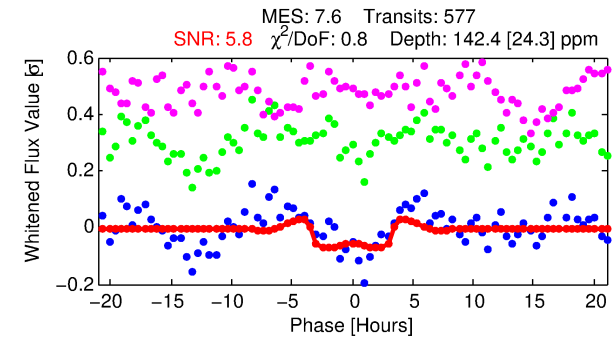
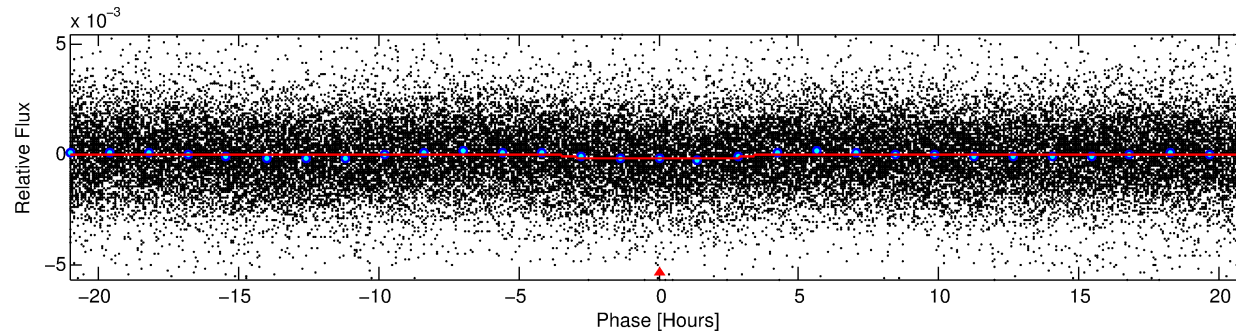
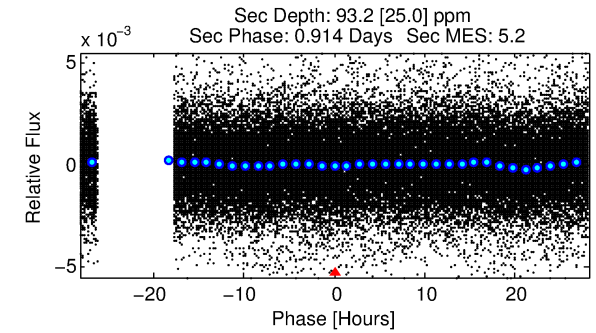
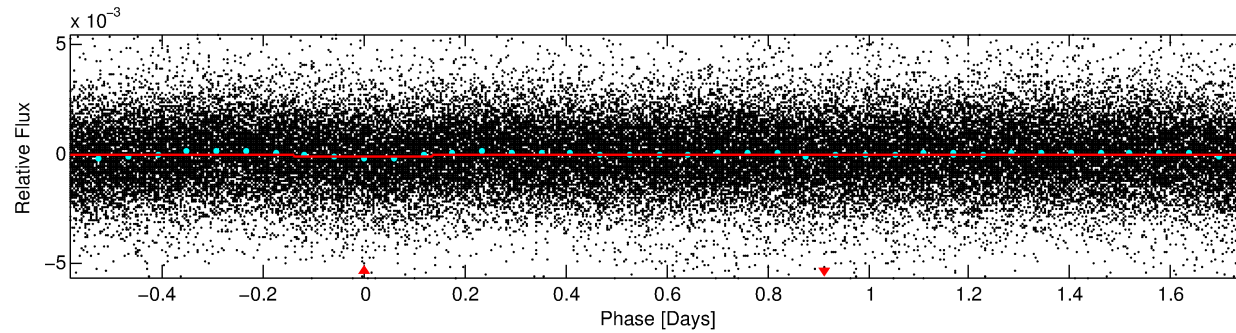
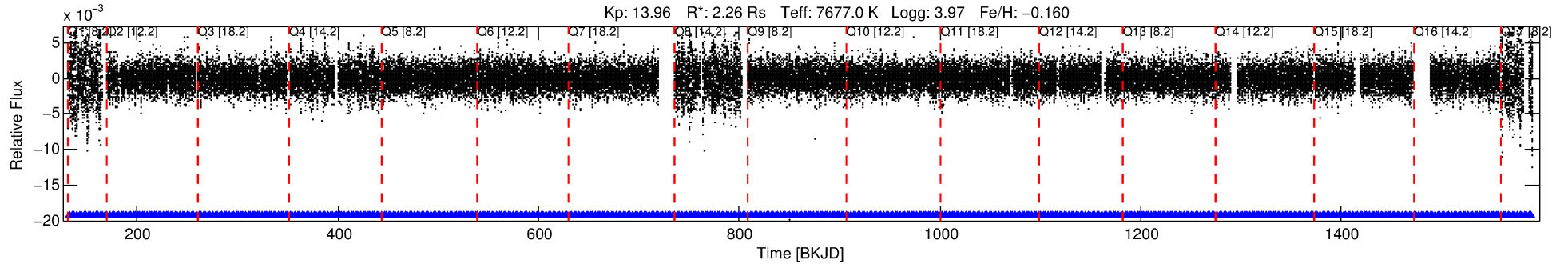
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006595315-01

No Significant Match Found

DV One-Page Summary

KIC: 6595315 Candidate: 1 of 1 Period: 2.337 d



DV Fit Results:

Period = 2.33749 [0.00004] d
Epoch = 133.0845 [0.0088] BKJD
Rp/R* = 0.0122 [0.0060]
a/R* = 1.75 [3.23]
b = 0.82 [1.10]
Seff = 9293.83 [4163.62]
Teq = 2504 [280] K
Rp = 3.01 [1.71] Re
a = 0.0414 [0.0110] AU
Ag = 9.71 [10.66] [0.82σ]
Teffp = 6833 [1759] K [2.43σ]

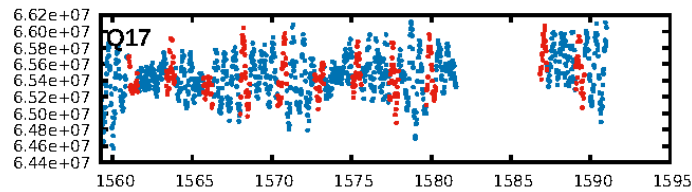
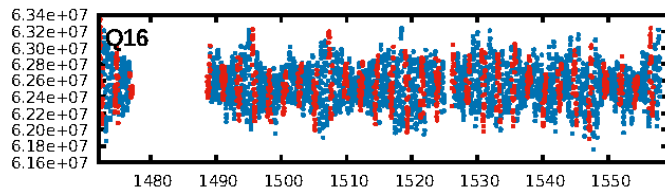
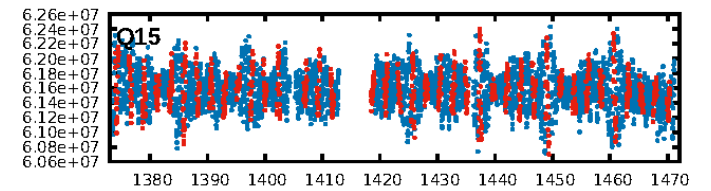
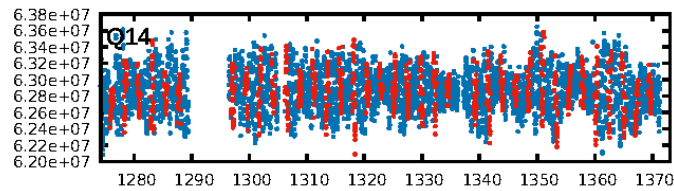
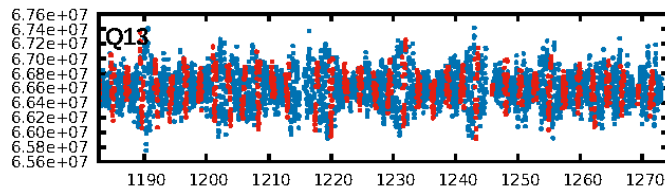
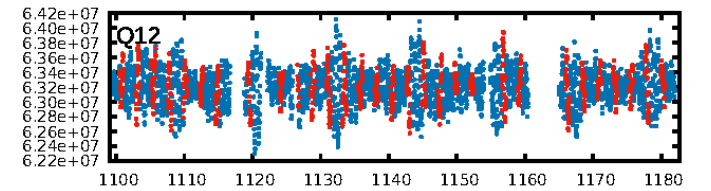
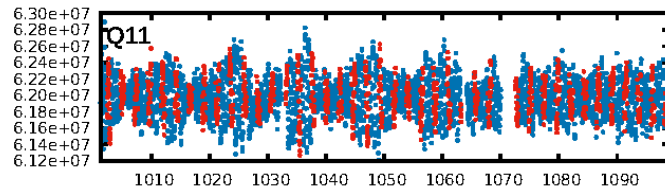
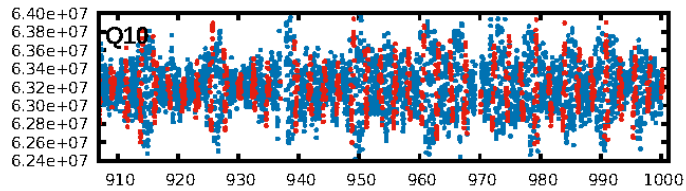
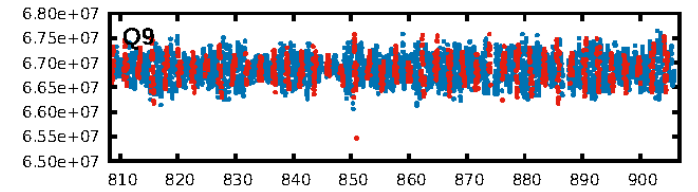
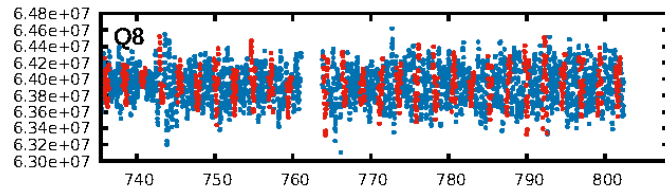
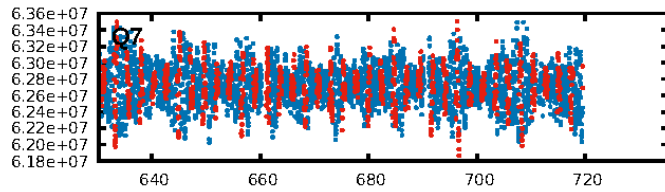
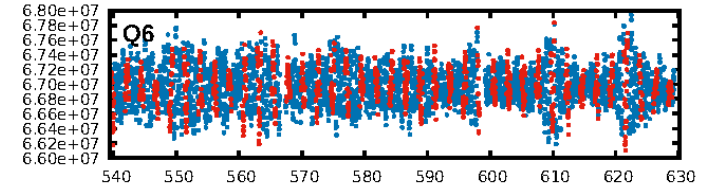
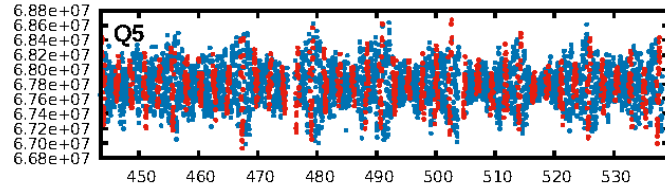
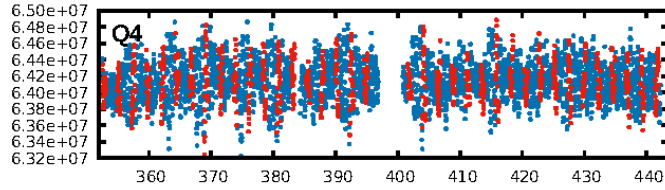
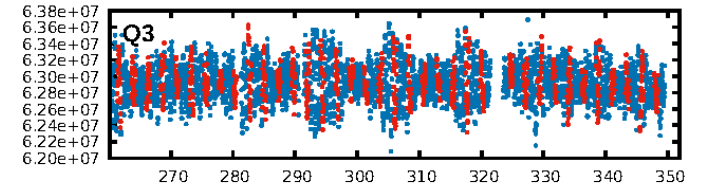
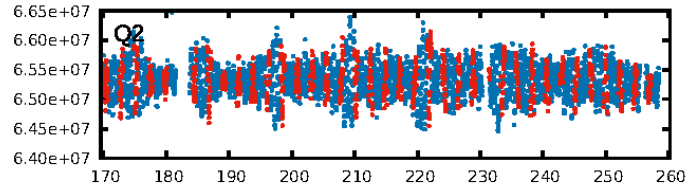
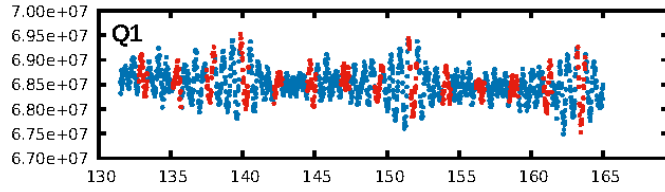
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.96e-11
RollingBand-fgt: 1.00 [552/552]
GhostDiagnostic-chr: 1.141
Centroid-sig: 70.5%
Centroid-so: 0.454 arcsec [1.64σ]
OotOffset-rm: 0.019 arcsec [0.16σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.332 arcsec [1.96σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 1.00 [17/17]

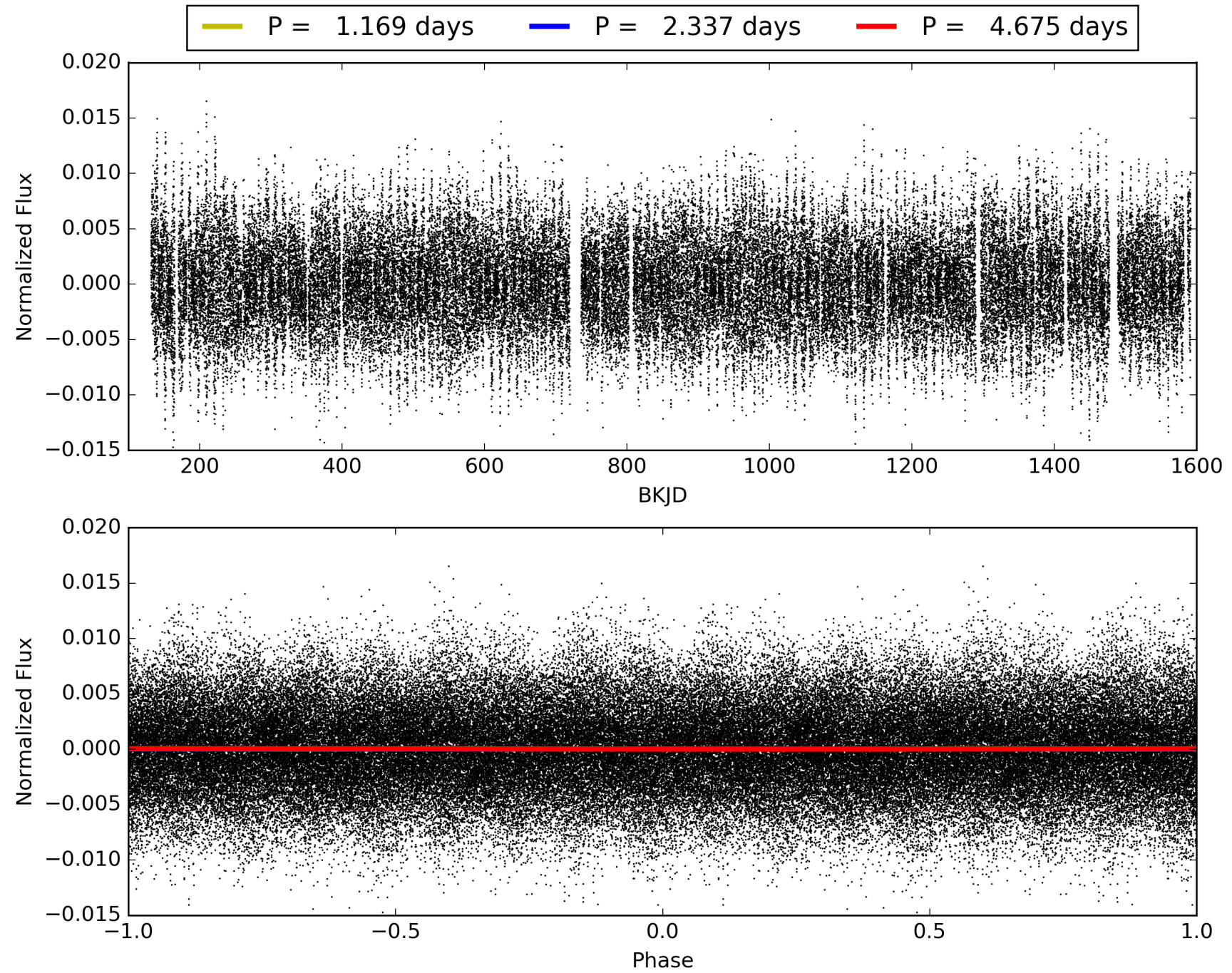
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:03:47 Z

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

TCE 006595315-01, PDC Light Curves

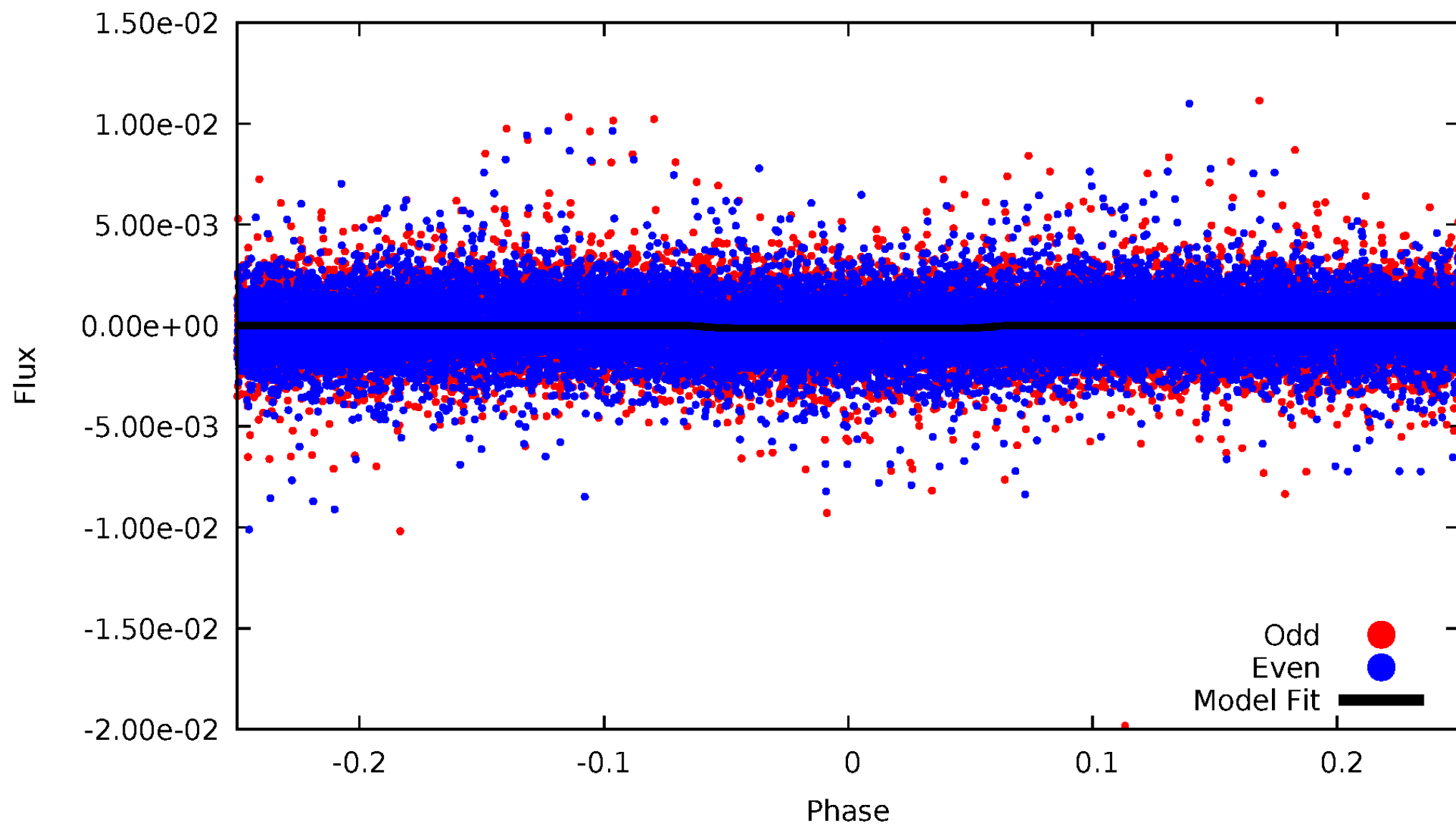


TCE 006595315-01



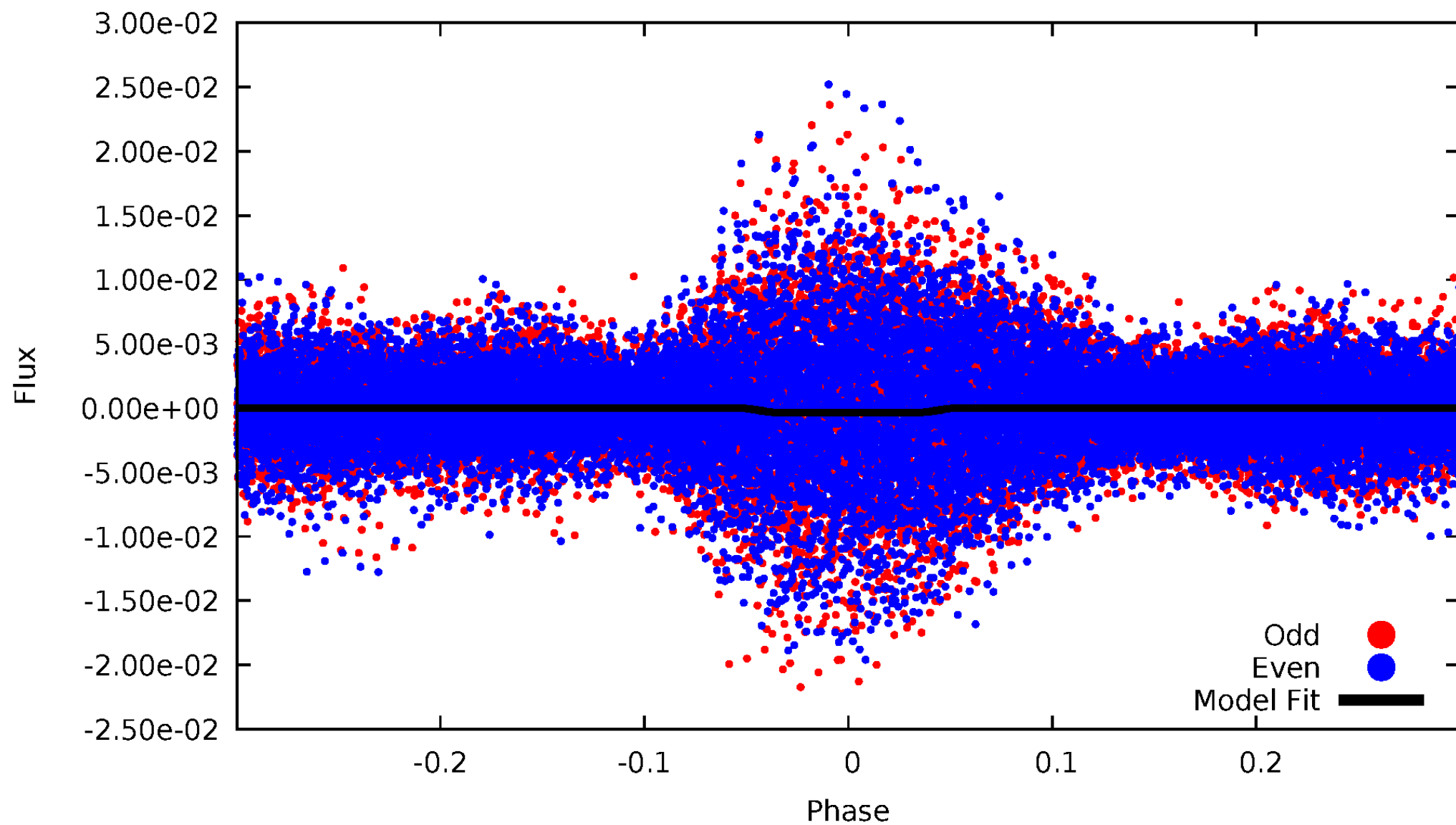
DV Odd/Even

TCE 006595315-01



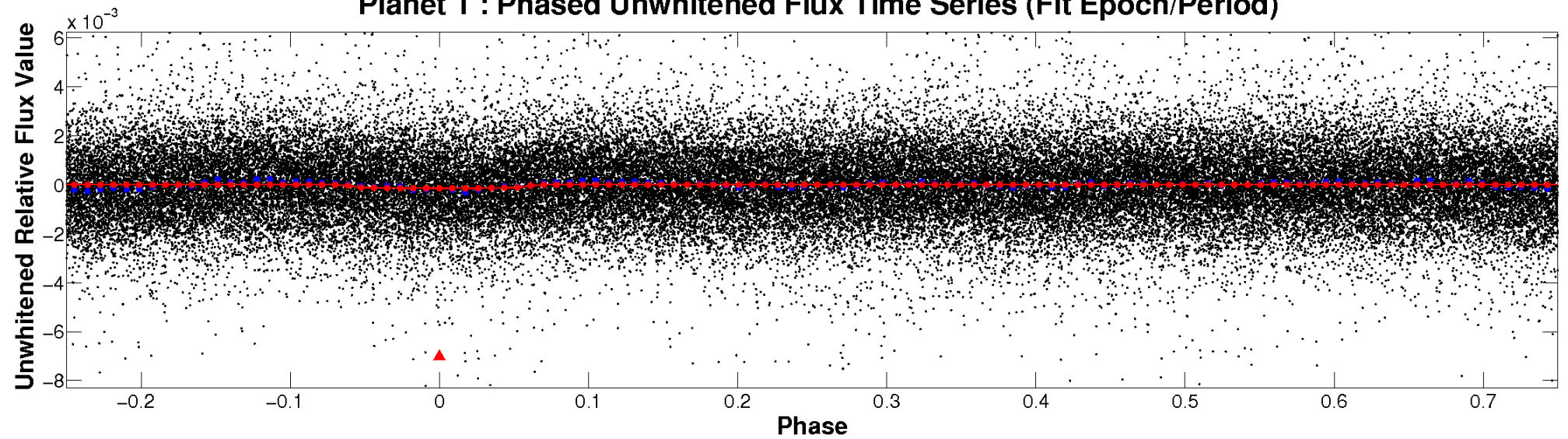
ALT Odd/Even

TCE 006595315-01

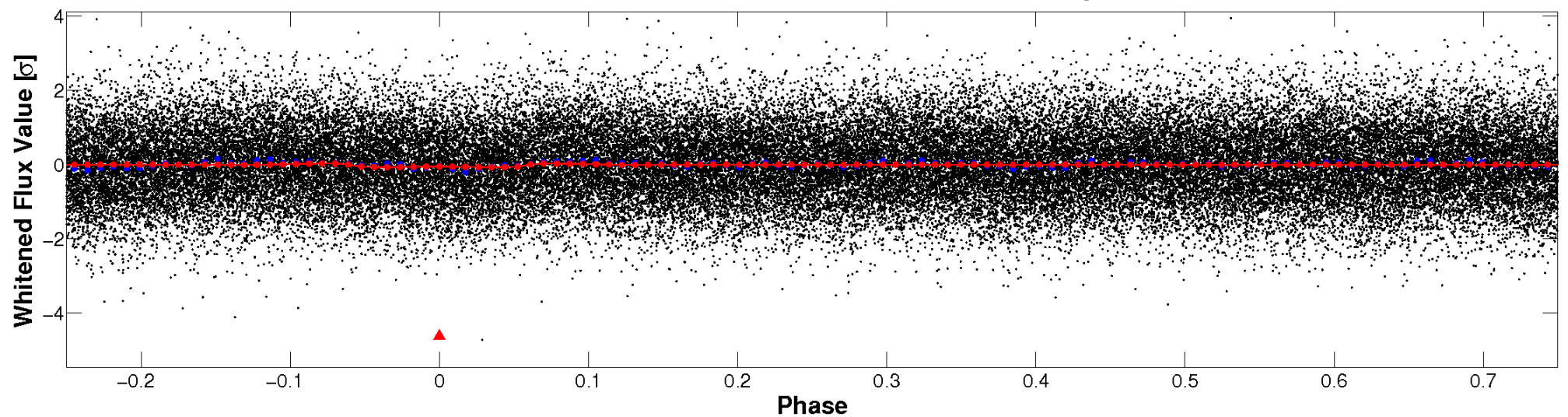


Non-Whitened Vs. Whitened Light Curve

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

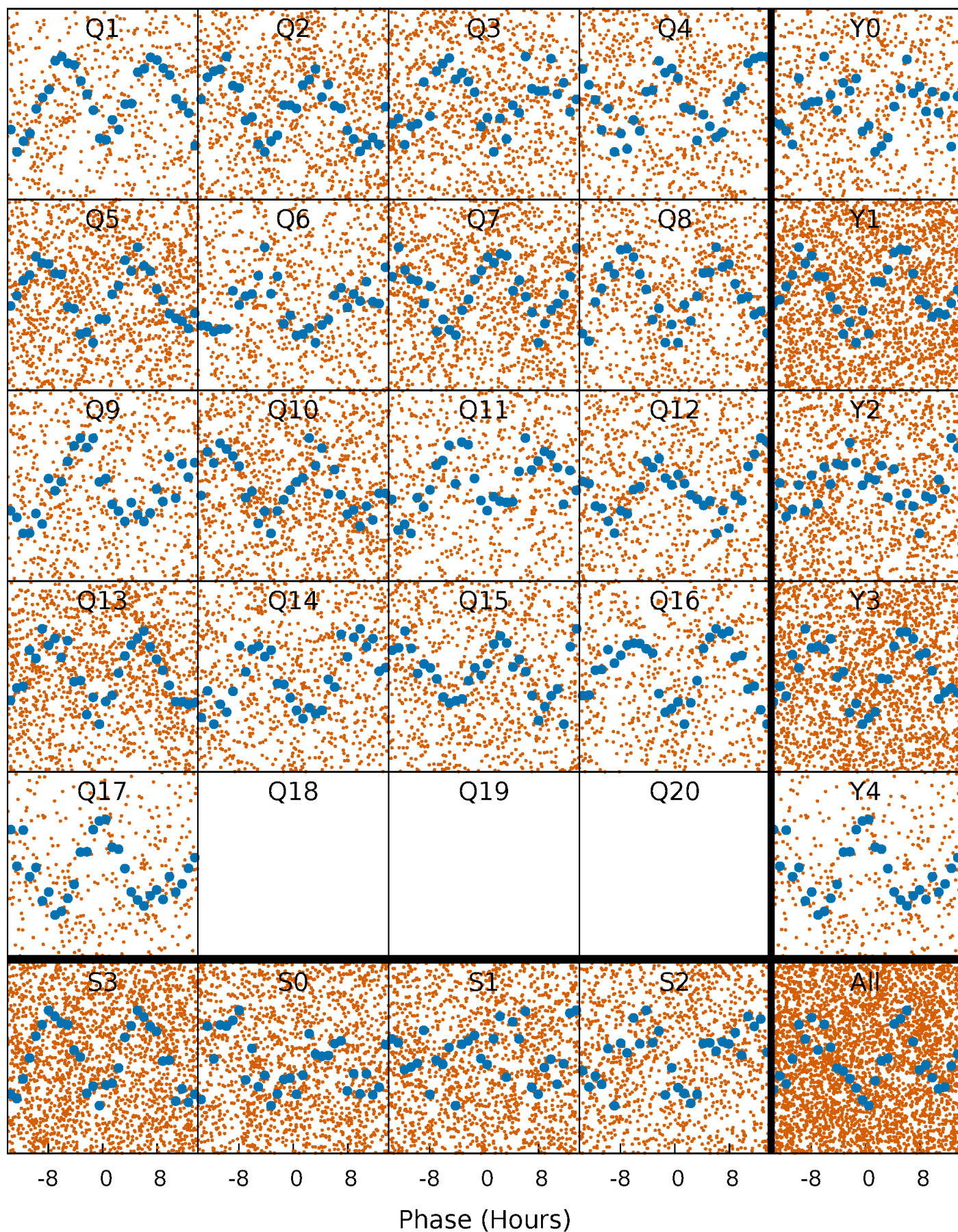


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



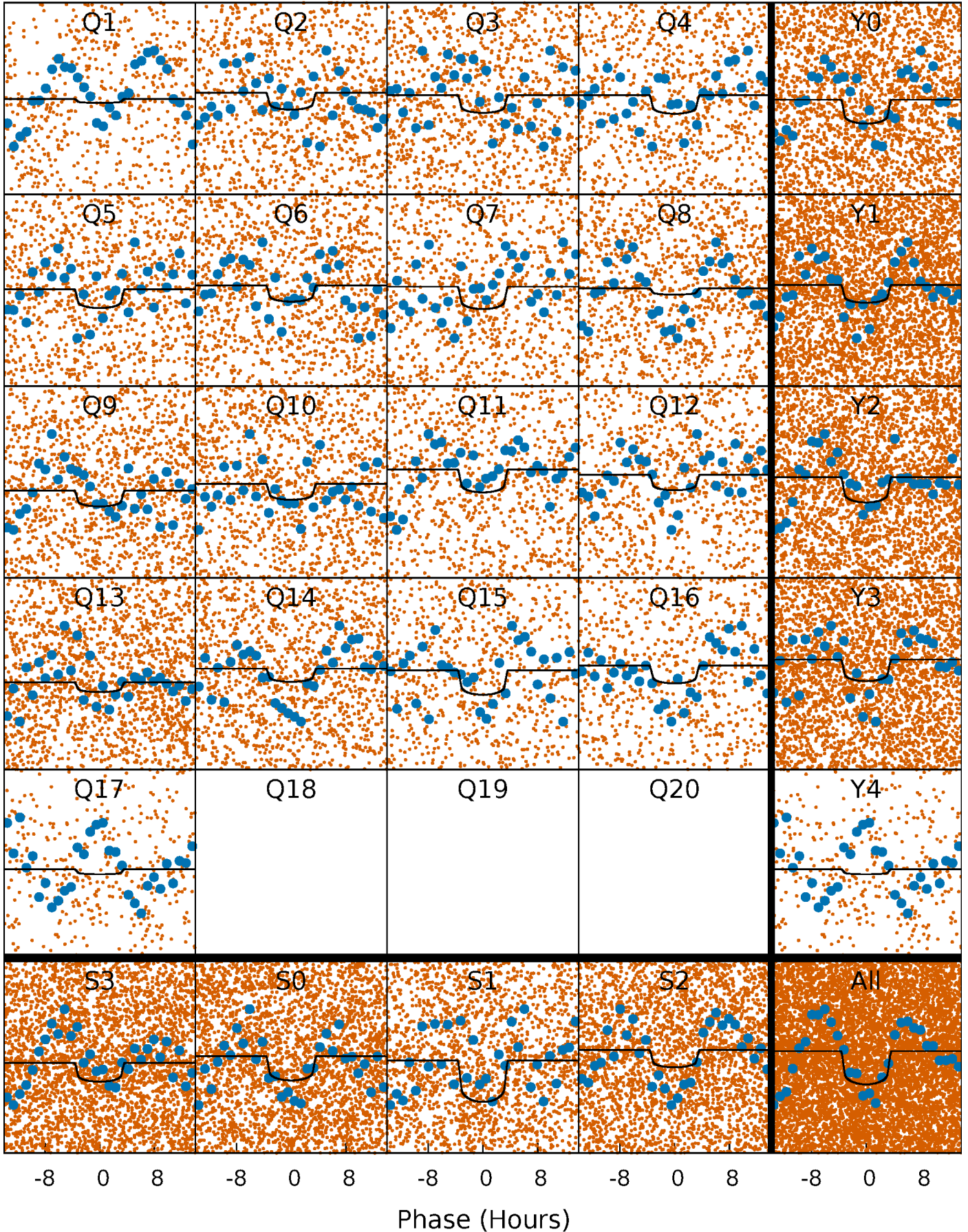
PDC Quarter-Phased Transit Curves

TCE 006595315-01 P= 2.337489 Days $T_0=133.084534$ (BKJD)



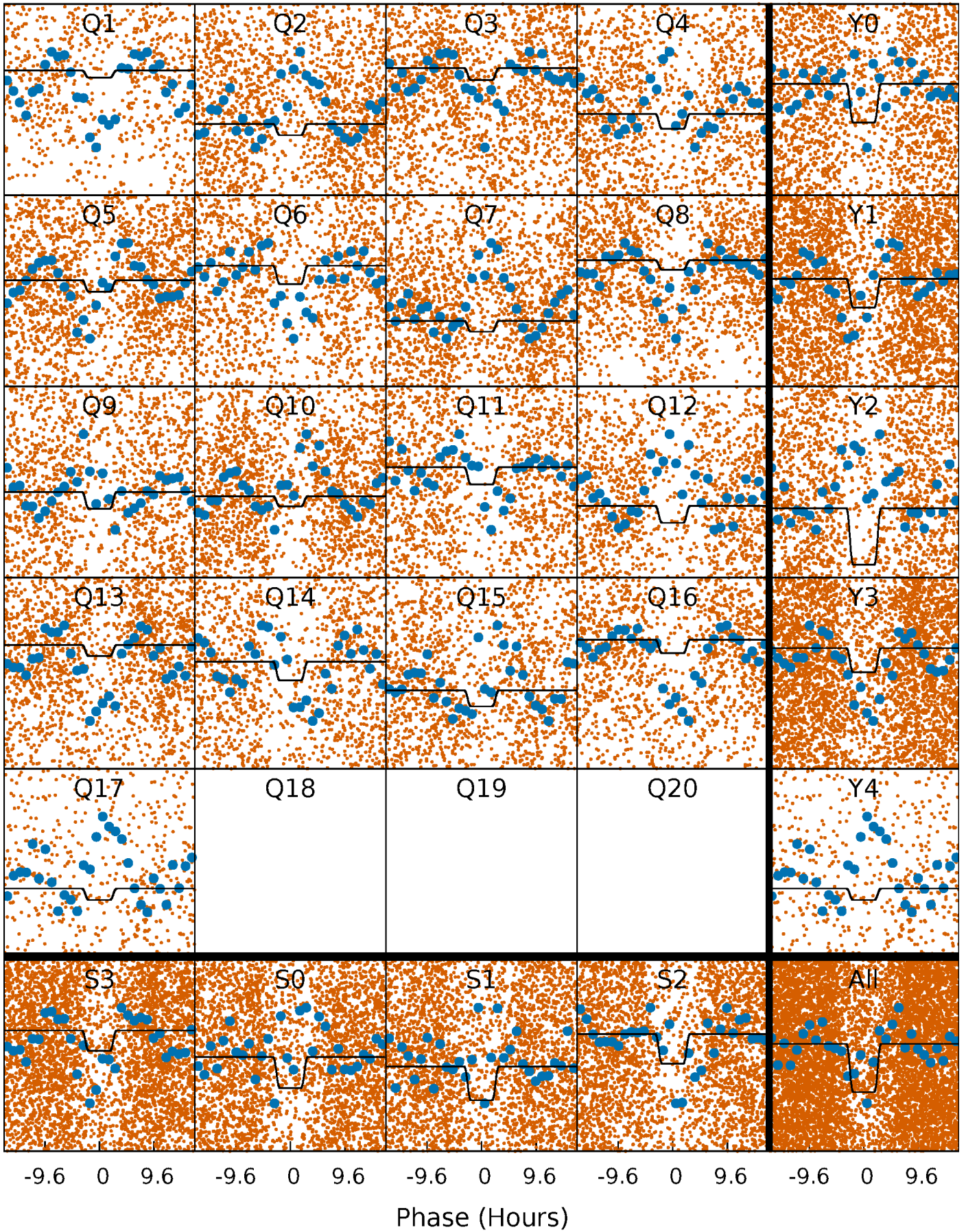
DV Quarter-Phased Transit Curves

TCE 006595315-01 P= 2.337489 Days $T_0=133.084534$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

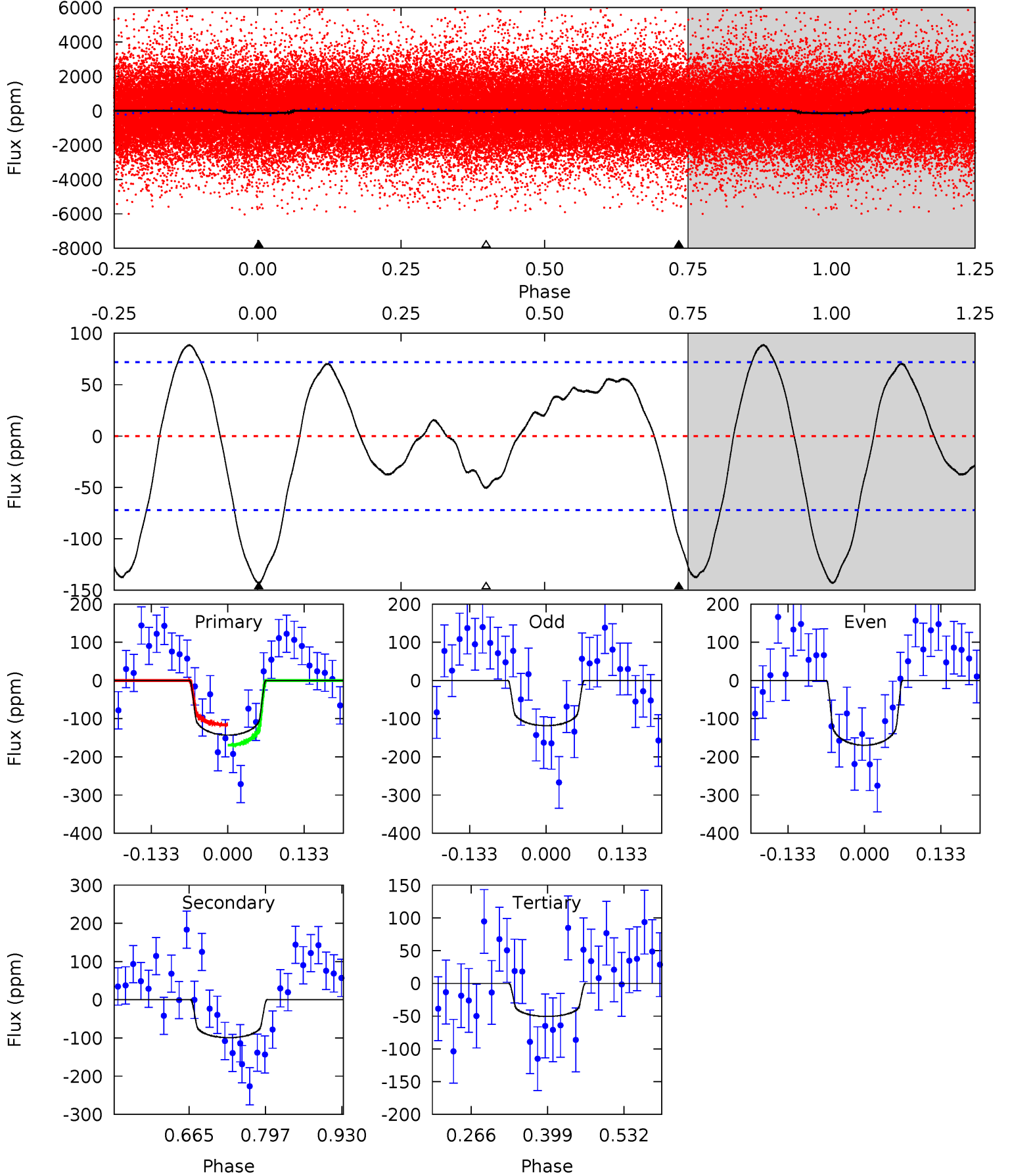
TCE 006595315-01 P= 2.337292 Days $T_0=133.133412$ (BKJD)



DV Model-Shift Uniqueness Test

006595315-01, P = 2.337489 Days, E = 130.747045 Days

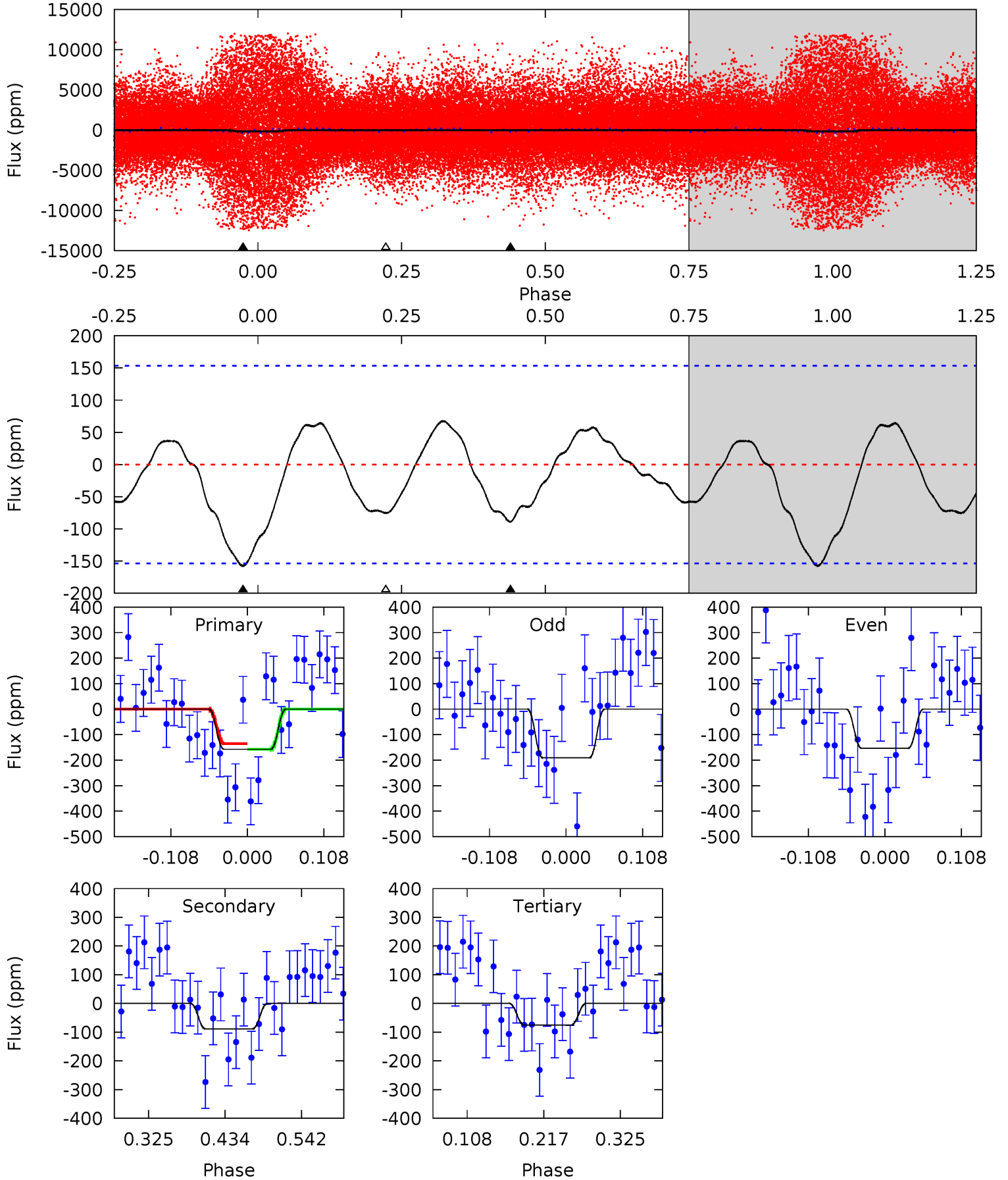
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.95	6.21	3.16	0	4.50	1.50	1.95	5.79	8.95	3.06	6.21	1.62	1.74	0.38	1.68



Alt Model-Shift Uniqueness Test

006595315-01, P = 2.337292 Days, E = 130.796120 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.66	2.64	2.23	0	4.55	1.61	1.32	2.43	4.66	0.41	2.64	0.56	1.56	0.30	0.34



Stellar Parameters For KIC 006595315

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7677^{+237}_{-316}	$3.967^{+0.241}_{-0.148}$	$-0.160^{+0.200}_{-0.300}$	$2.261^{+0.532}_{-0.650}$	$1.726^{+0.198}_{-0.322}$	$0.210^{+0.299}_{-0.086}$
	+3%/-4%	+6%/-4%	+125%/-188%	+24%/-29%	+11%/-19%	+142%/-41%
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 006595315-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-99 ± 16	$2.88^{+1.57}_{-1.37}$	3468^{+245}_{-300}	6796^{+3429}_{-1384}	11^{+29}_{-7}
Alt.	-89 ± 34	$4.52^{+1.78}_{-1.67}$	3466^{+266}_{-287}	5227^{+1220}_{-886}	$3.830^{+5.770}_{-2.129}$

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

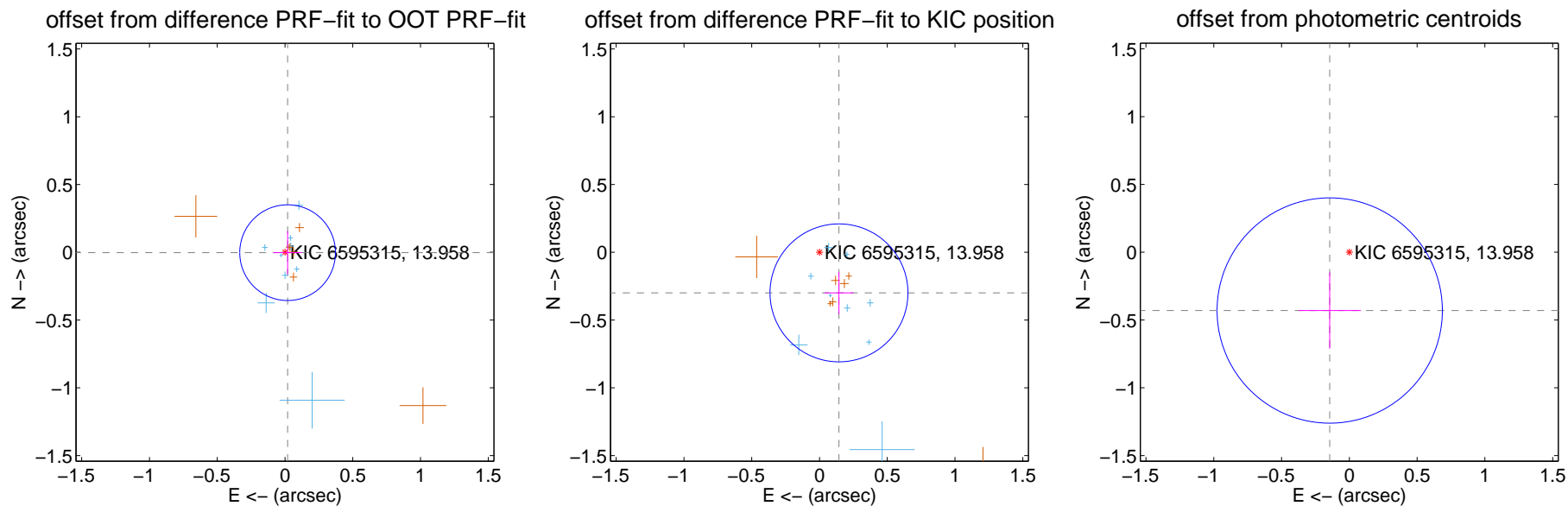
DV Centroid Data

Supplemental centroid analysis for 006595315-01. Kepler magnitude: 13.96. Transit SNR 5.81

There are 9 quarters with good PRF difference image offsets

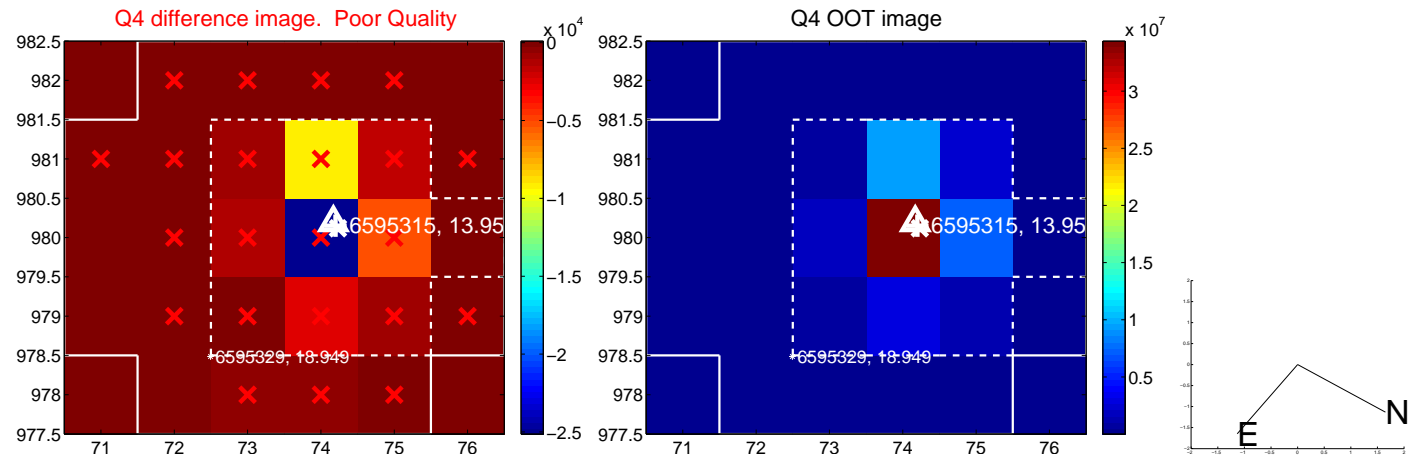
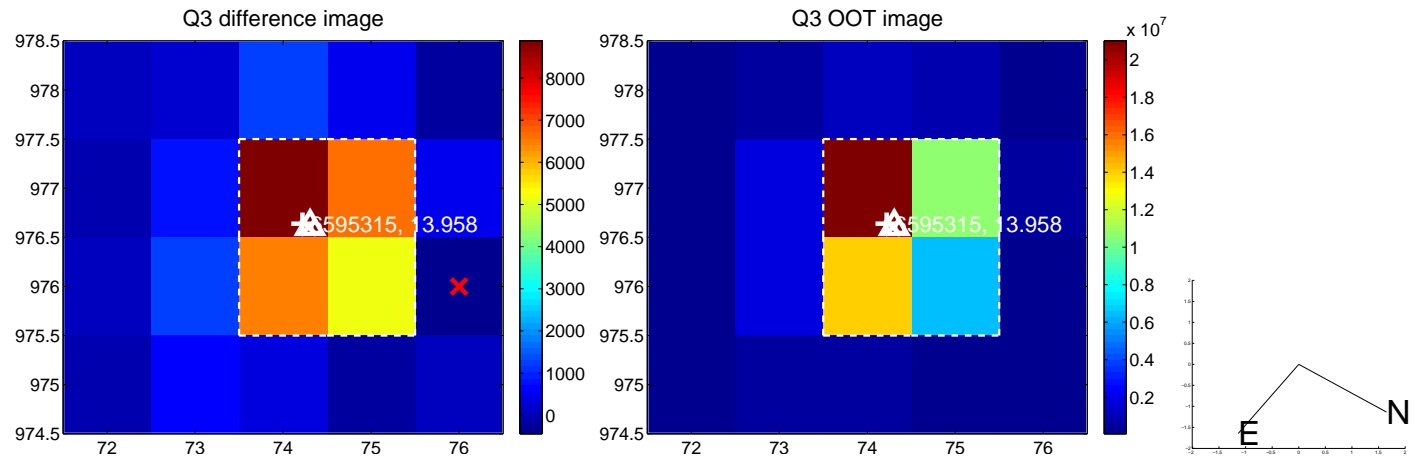
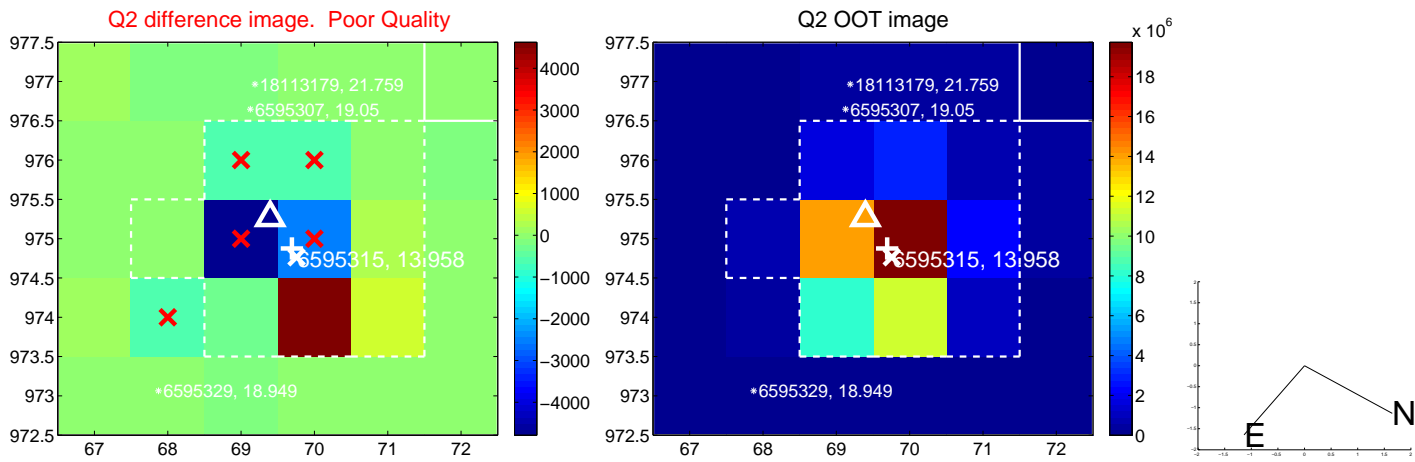
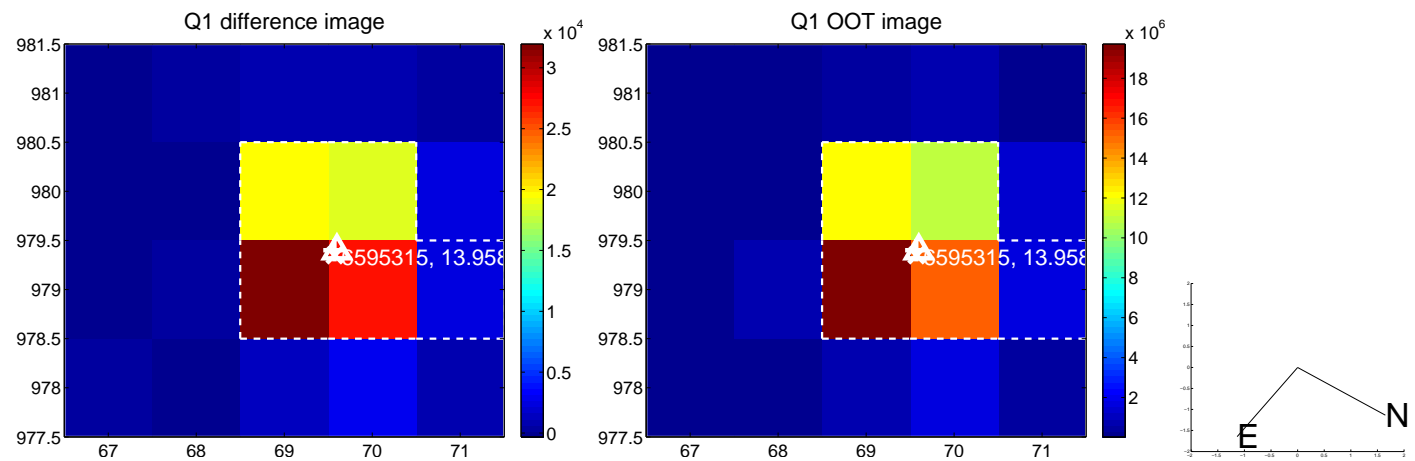
The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.019 ± 0.118	0.16	-0.019 ± 0.106	-0.003 ± 0.159
PRF-fit source offset from KIC position	0.332 ± 0.170	1.96	-0.144 ± 0.107	-0.299 ± 0.155
photometric centroid source offset	0.45 ± 0.28	1.64	0.14 ± 0.23	-0.43 ± 0.28

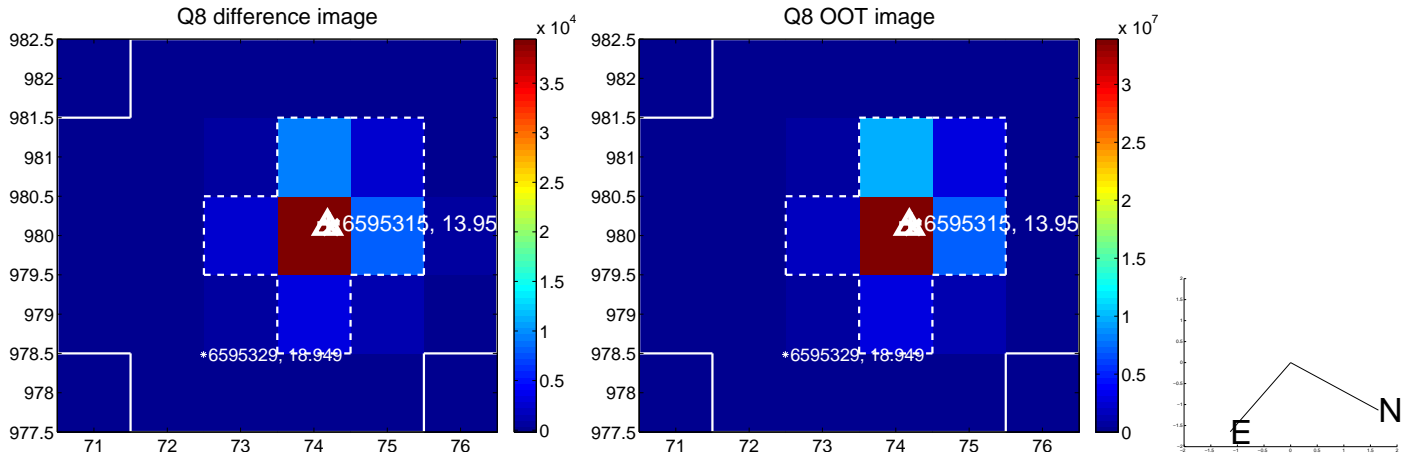
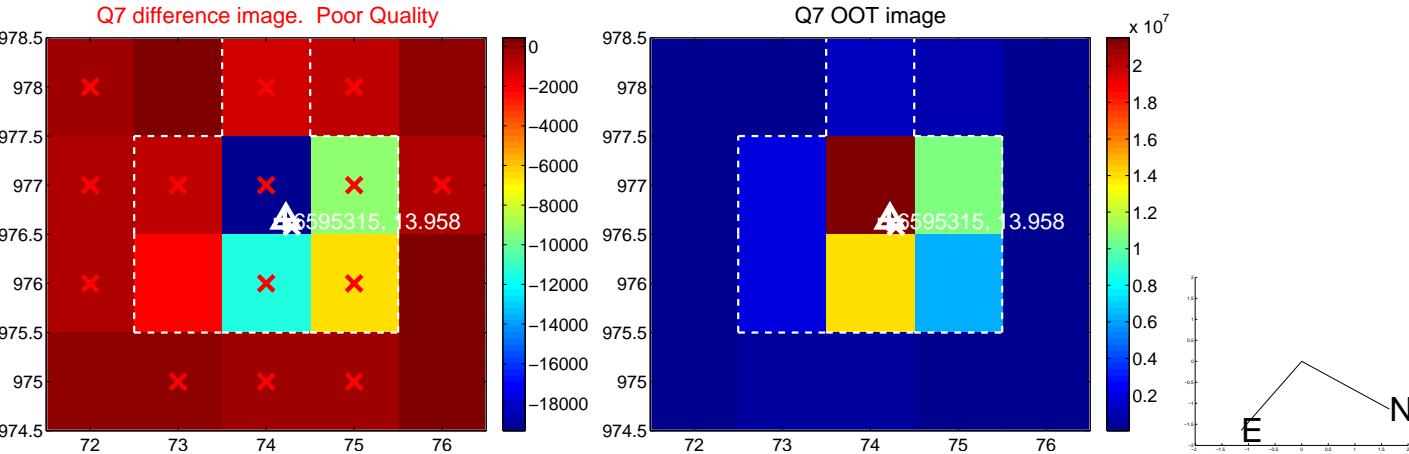
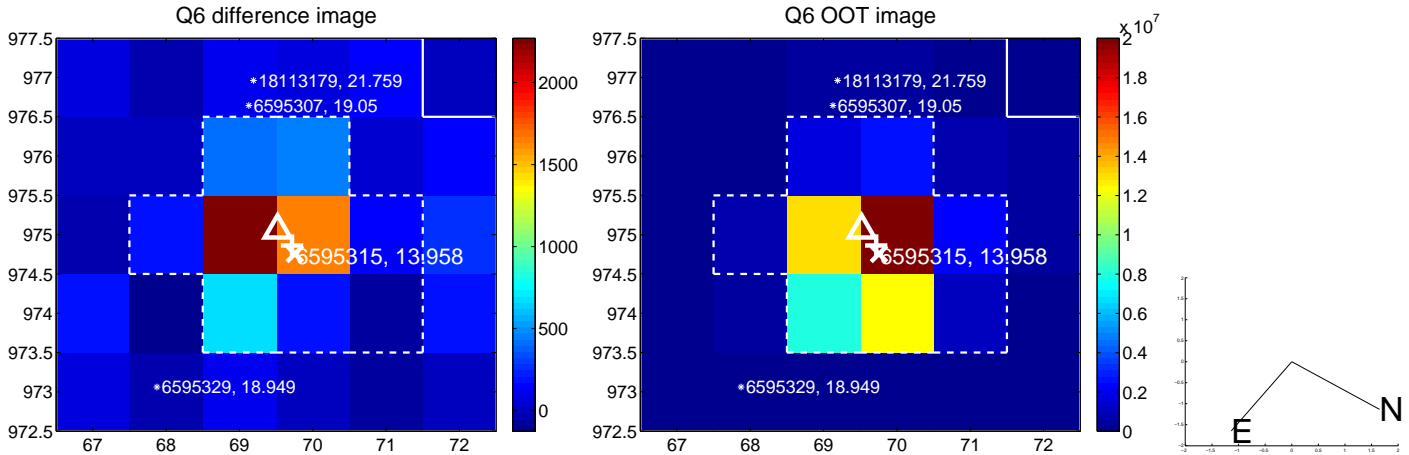
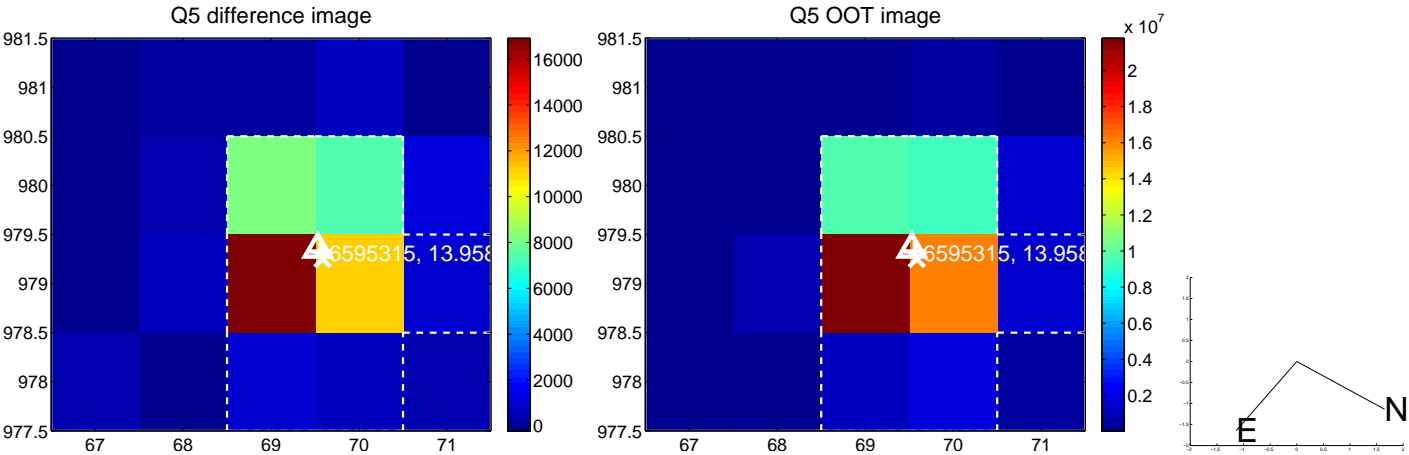


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

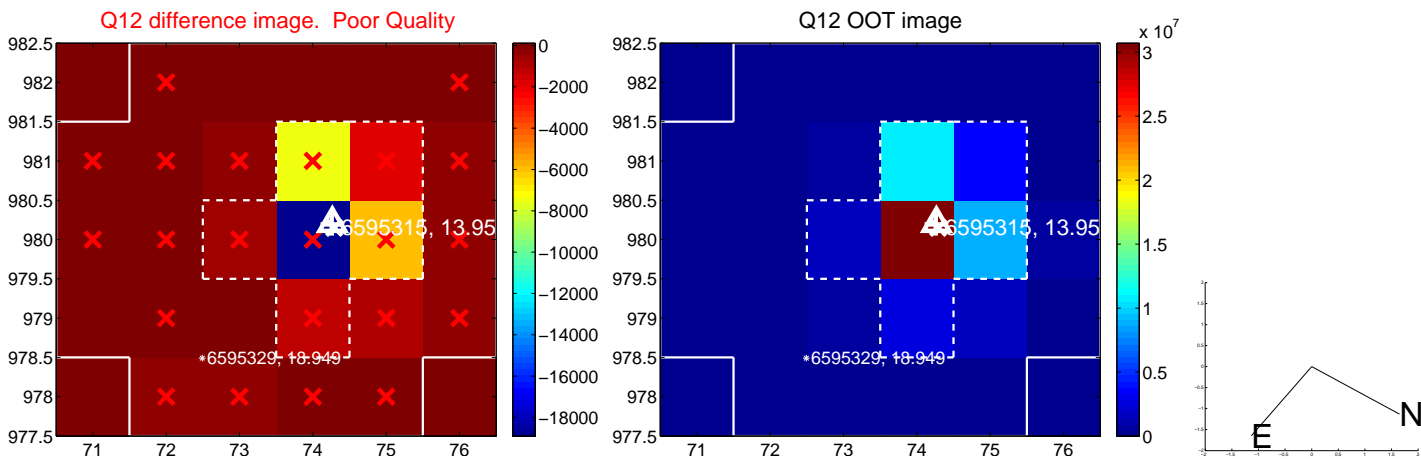
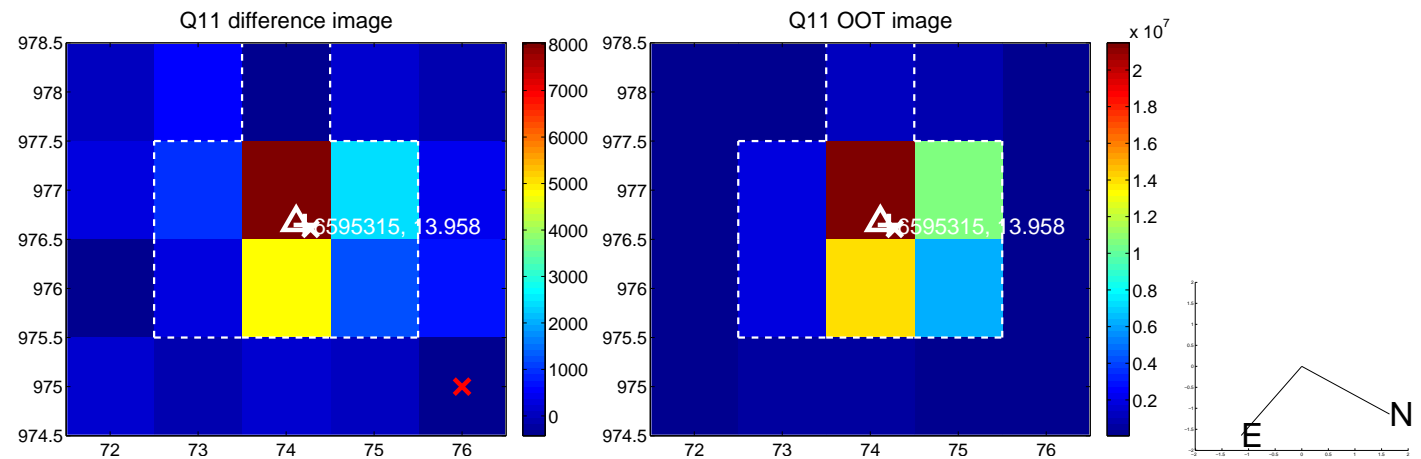
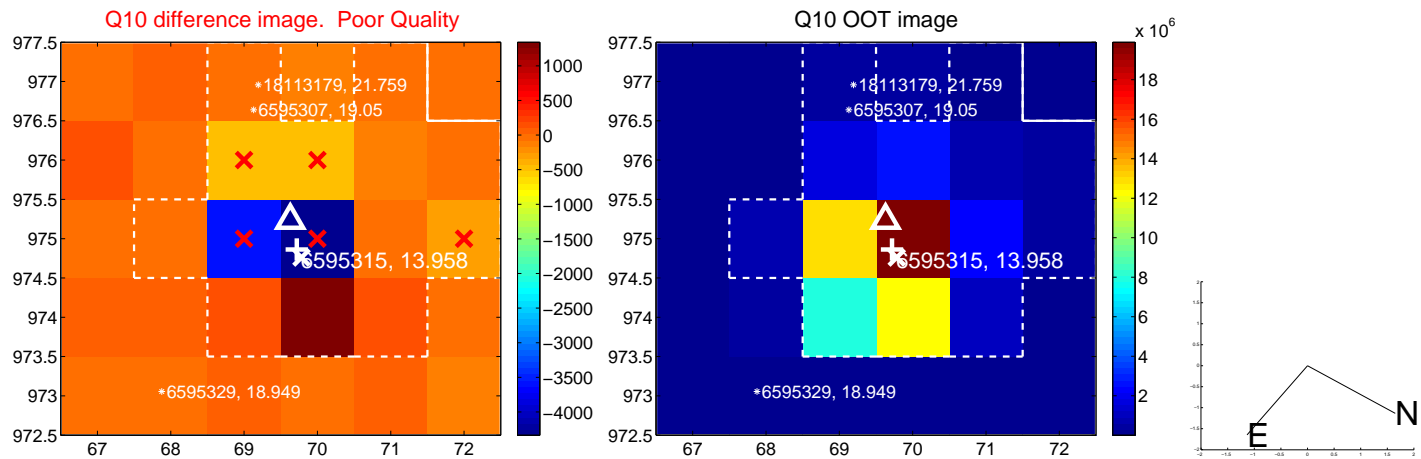
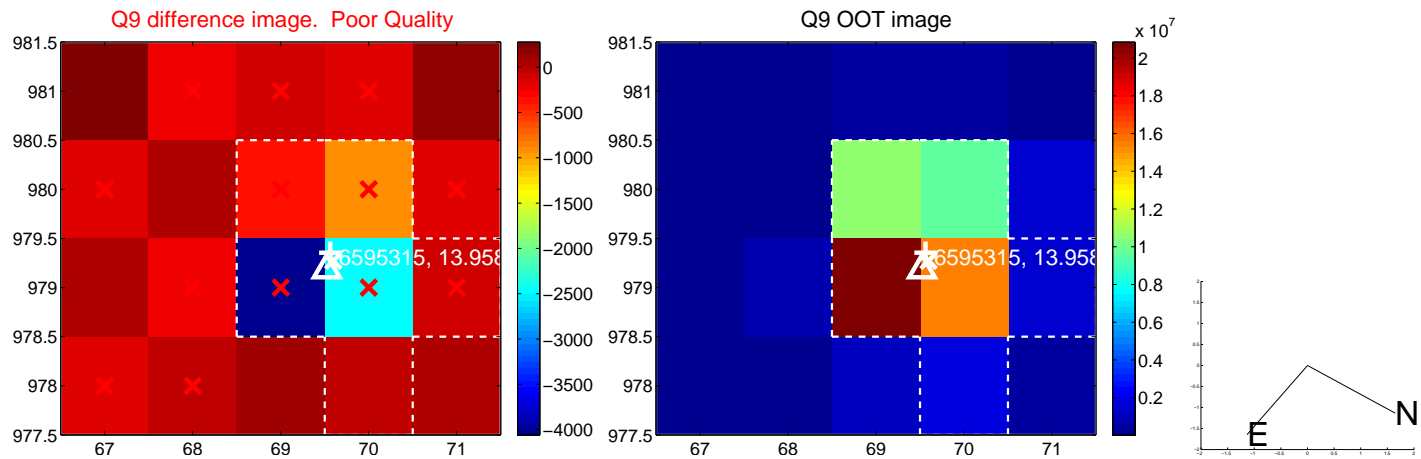
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



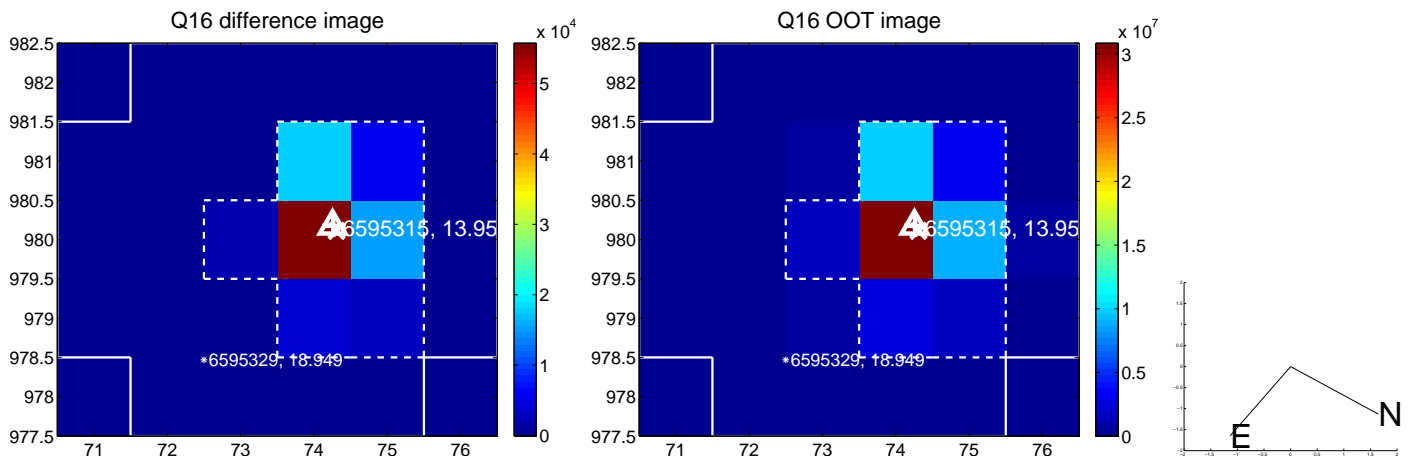
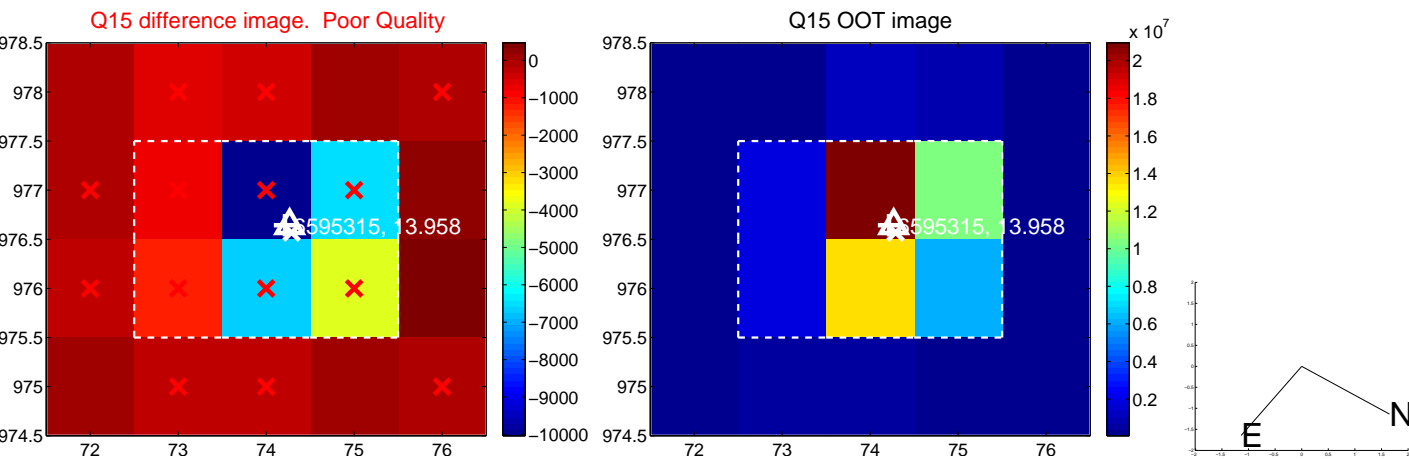
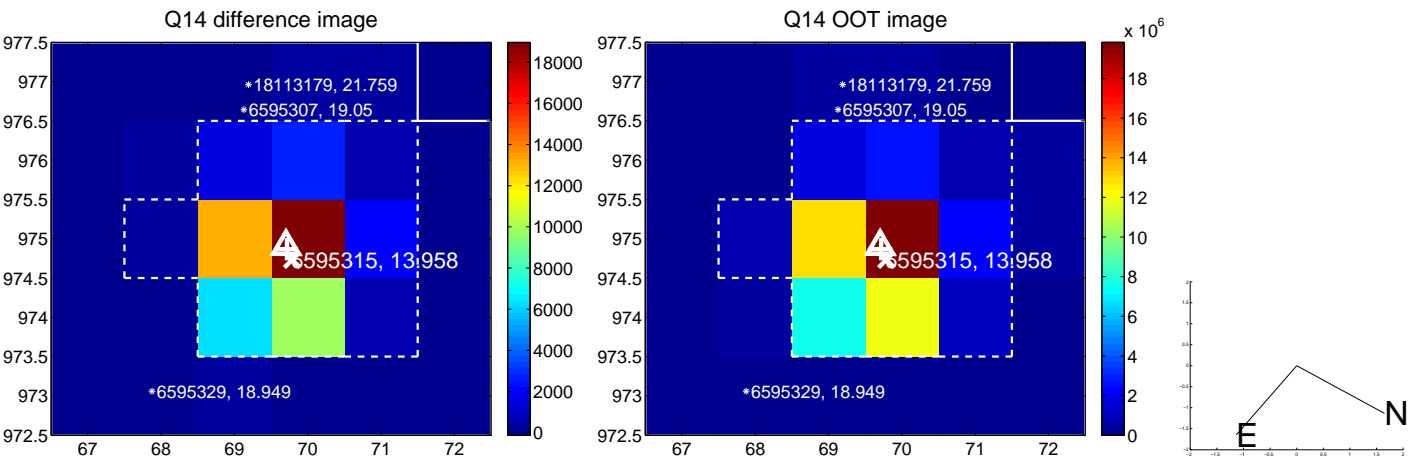
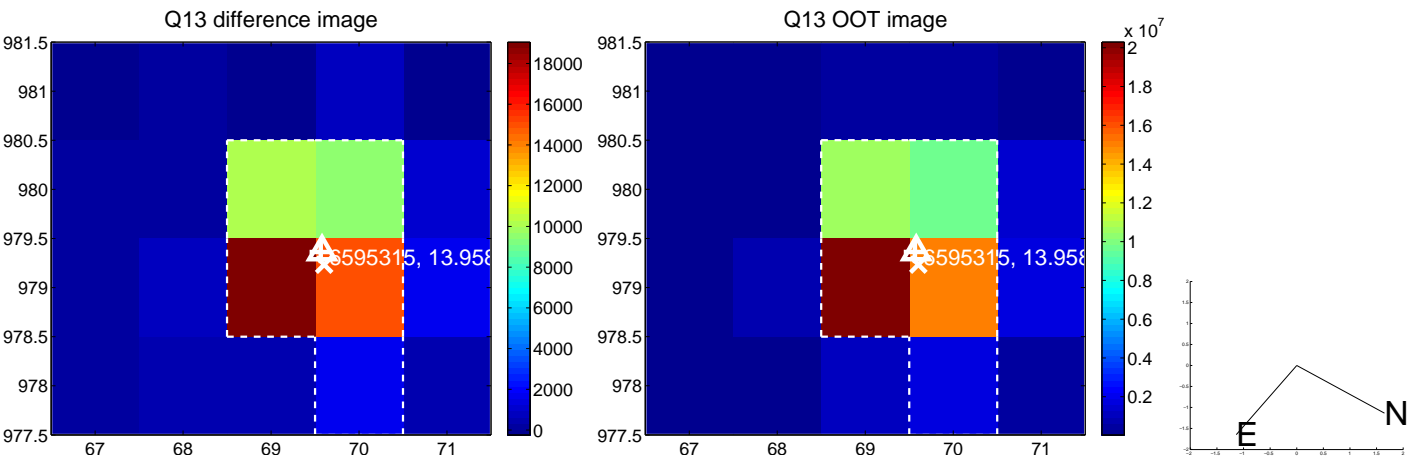
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



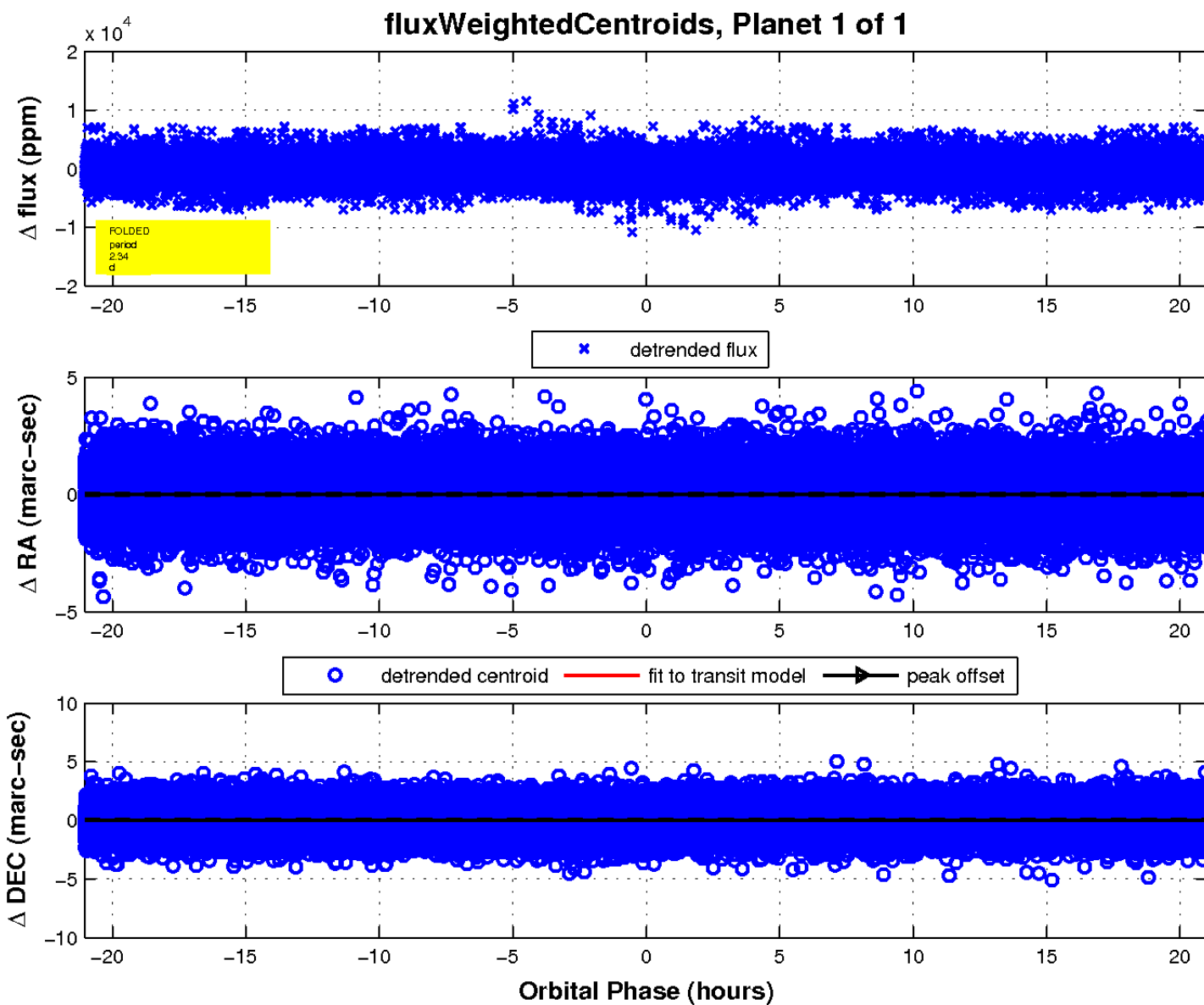
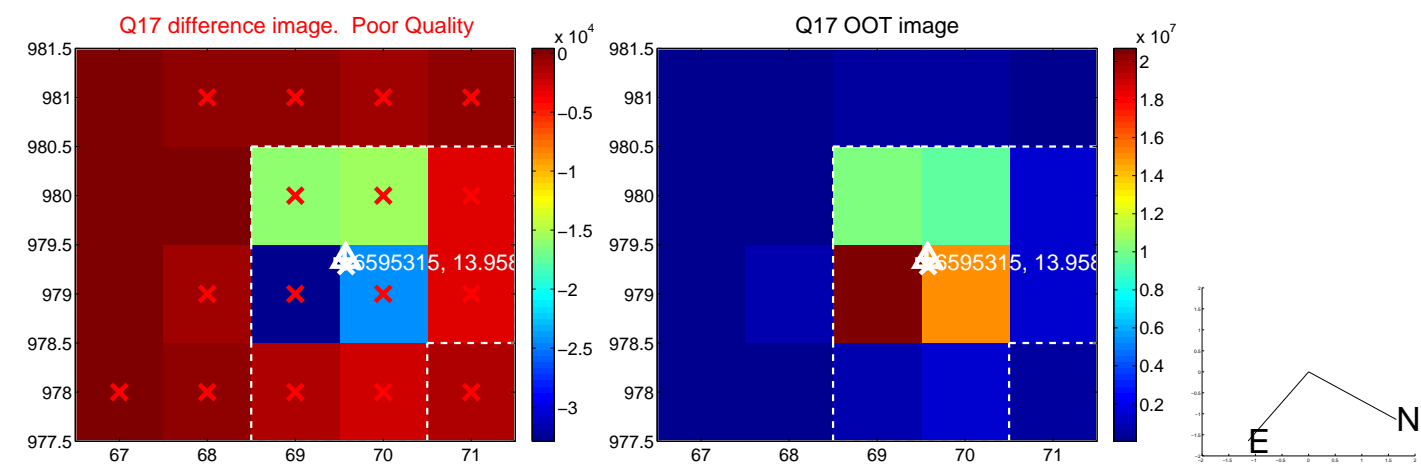
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

