

KIC 007199013

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})
007199013-01	OBS	No	1.134186	132.060462	444.9	13.610	512.3	62.4	0.79	5283	2.02	1185.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007199013-01	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.

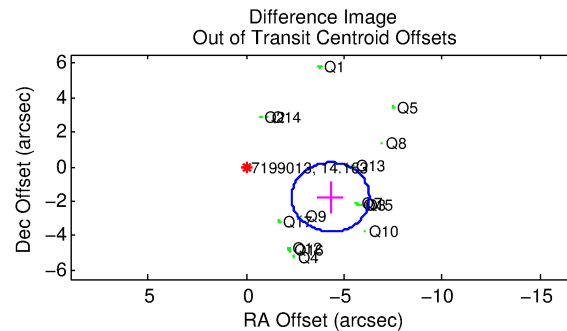
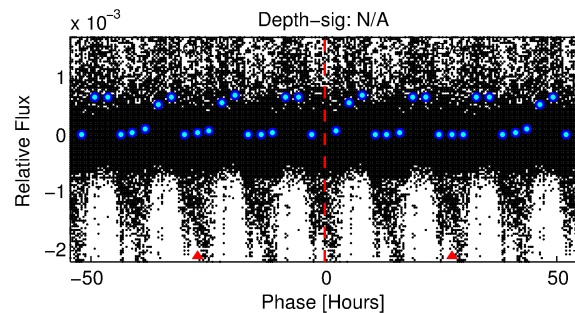
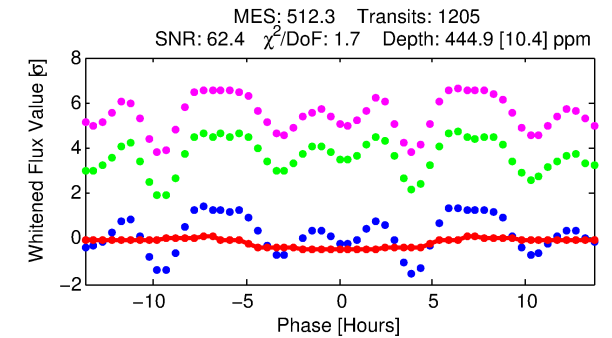
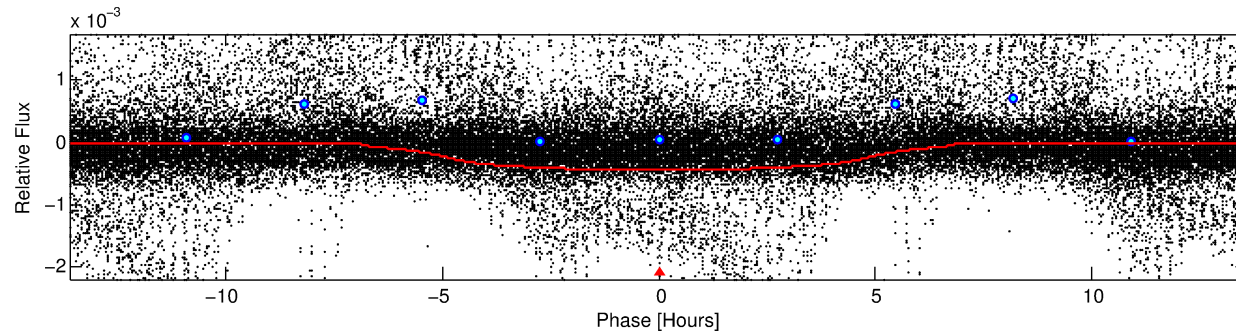
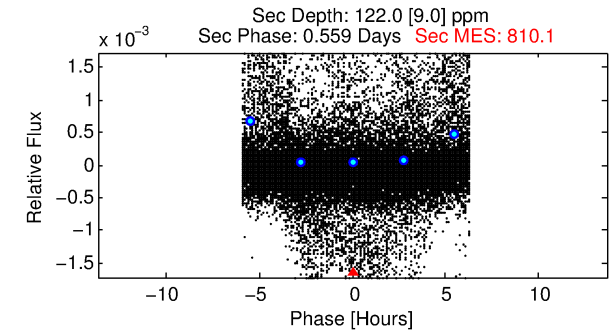
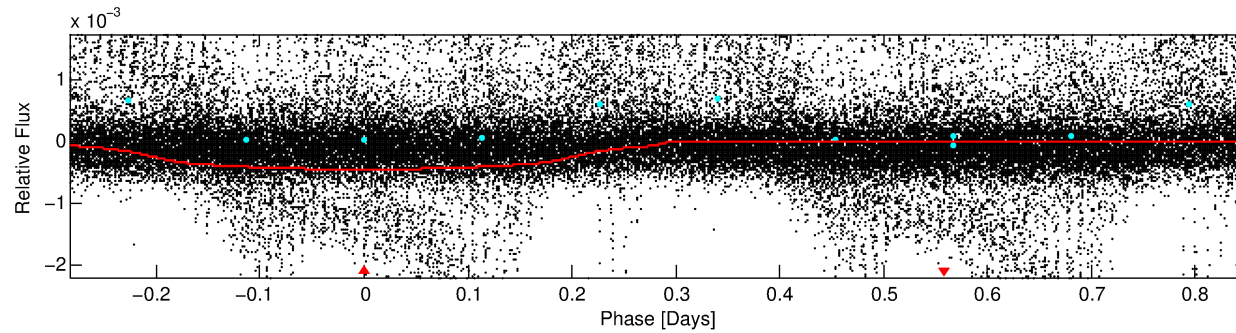
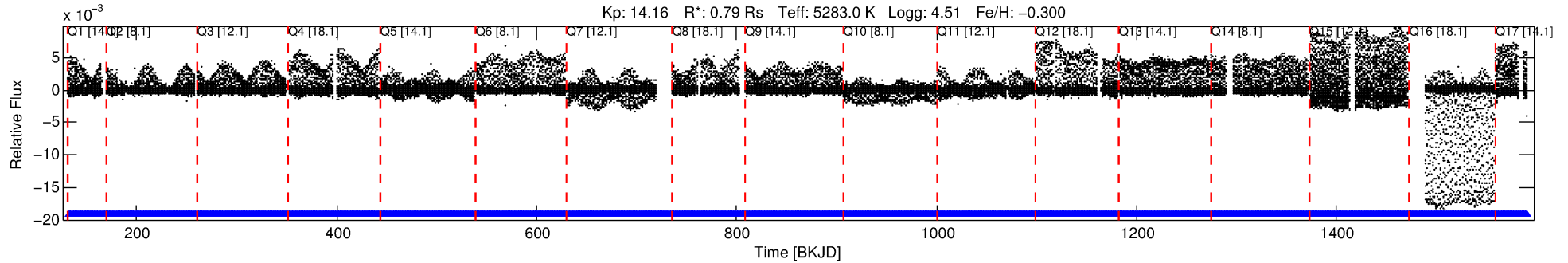
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007199013-01

No Significant Match Found

DV One-Page Summary

KIC: 7199013 Candidate: 1 of 1 Period: 1.134 d



DV Fit Results:

Period = 1.13419 [0.00001] d
Epoch = 132.0605 [0.0022] BKJD
Rp/R* = 0.0234 [0.0003]
a/R* = 1.01 [0.00]
b = 0.91 [0.01]
Seff = 1185.91 [251.35]
Teq = 1496 [79] K
Rp = 2.02 [0.26] Re
a = 0.0193 [0.0022] AU
Ag = 6.07 [1.16] [4.36σ]
Teffp = 3632 [131] K [13.97σ]

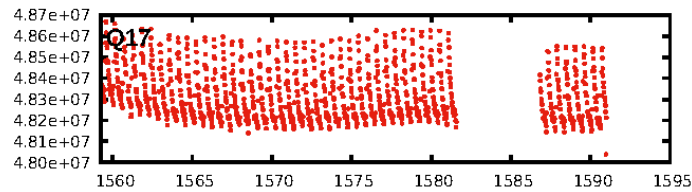
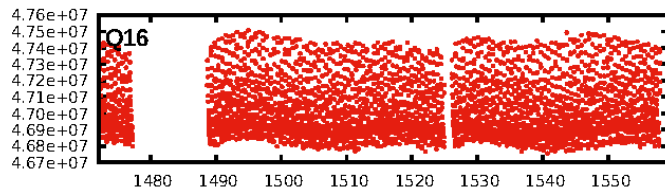
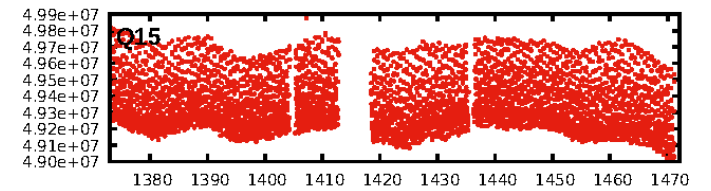
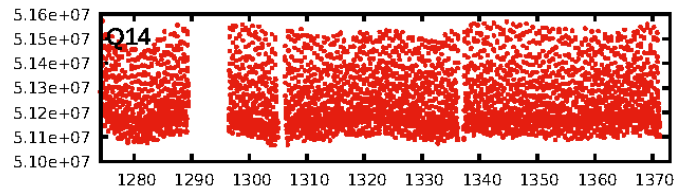
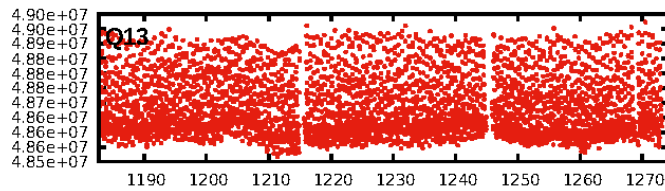
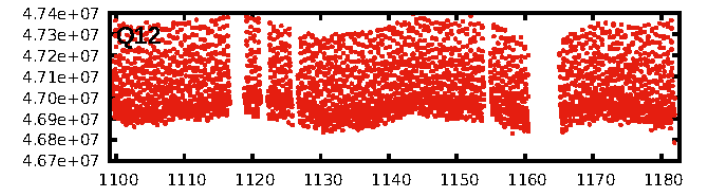
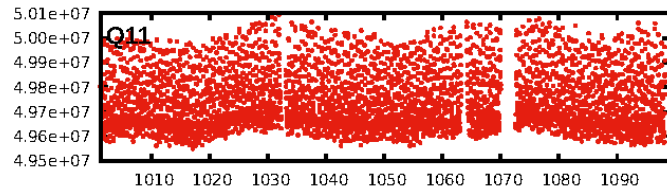
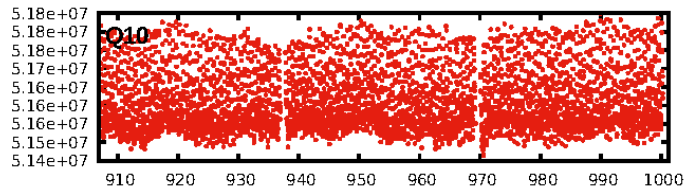
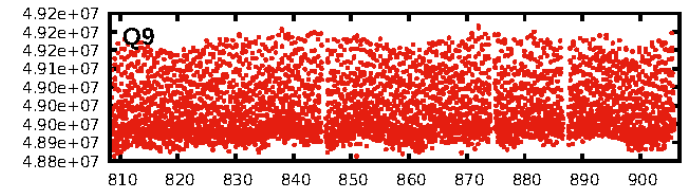
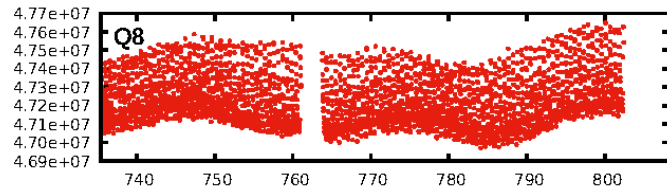
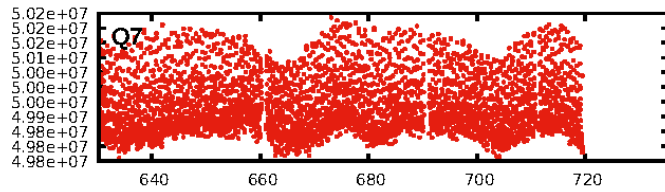
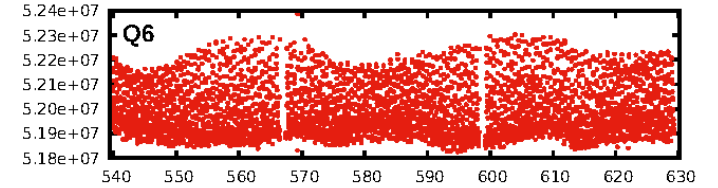
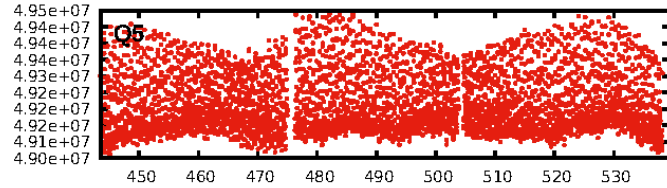
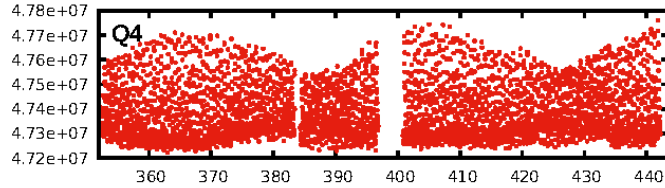
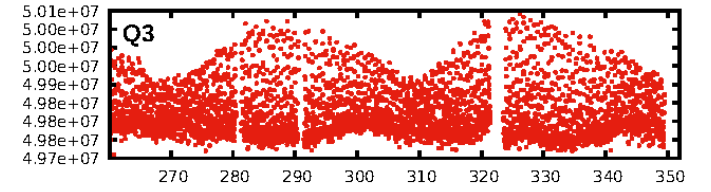
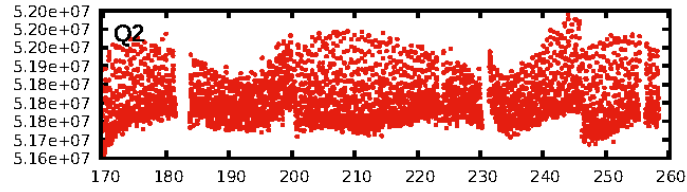
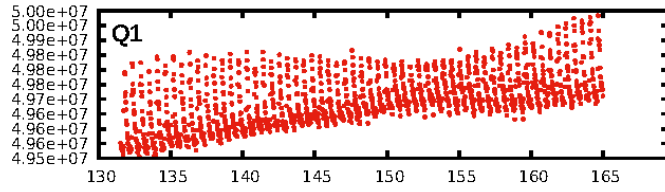
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1151/1151]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: 0.320 arcsec [4.51σ]
OotOffset-rm: 4.648 arcsec [6.98σ]
KicOffset-rm: 4.656 arcsec [6.95σ]
OotOffset-st: 3/3/4/5 [15]
KicOffset-st: 3/3/4/5 [15]
DiffImageQuality-fgm: 0.00 [0/15]
DiffImageOverlap-fno: 1.00 [17/17]

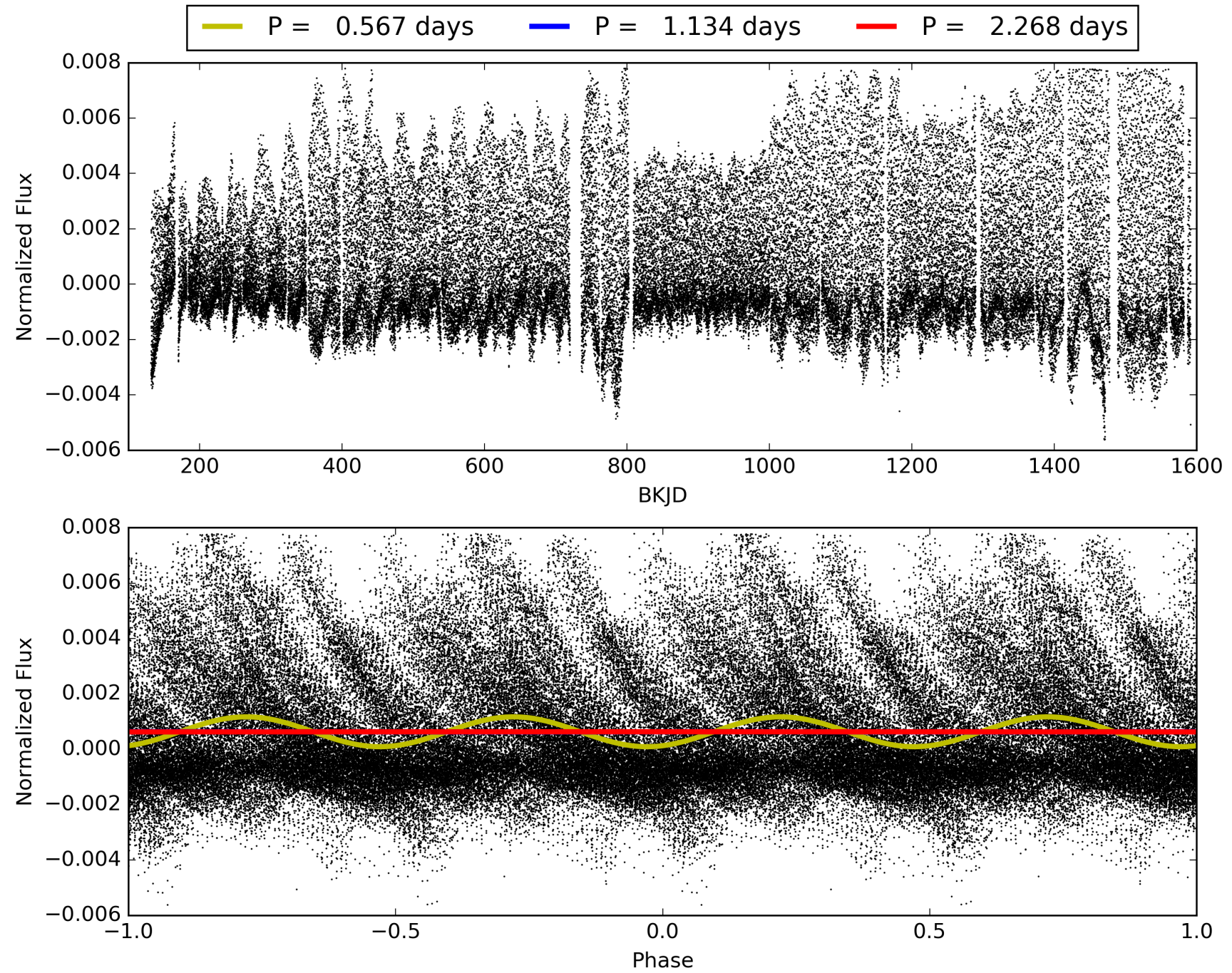
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 17:20:39 Z

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

TCE 007199013-01, PDC Light Curves

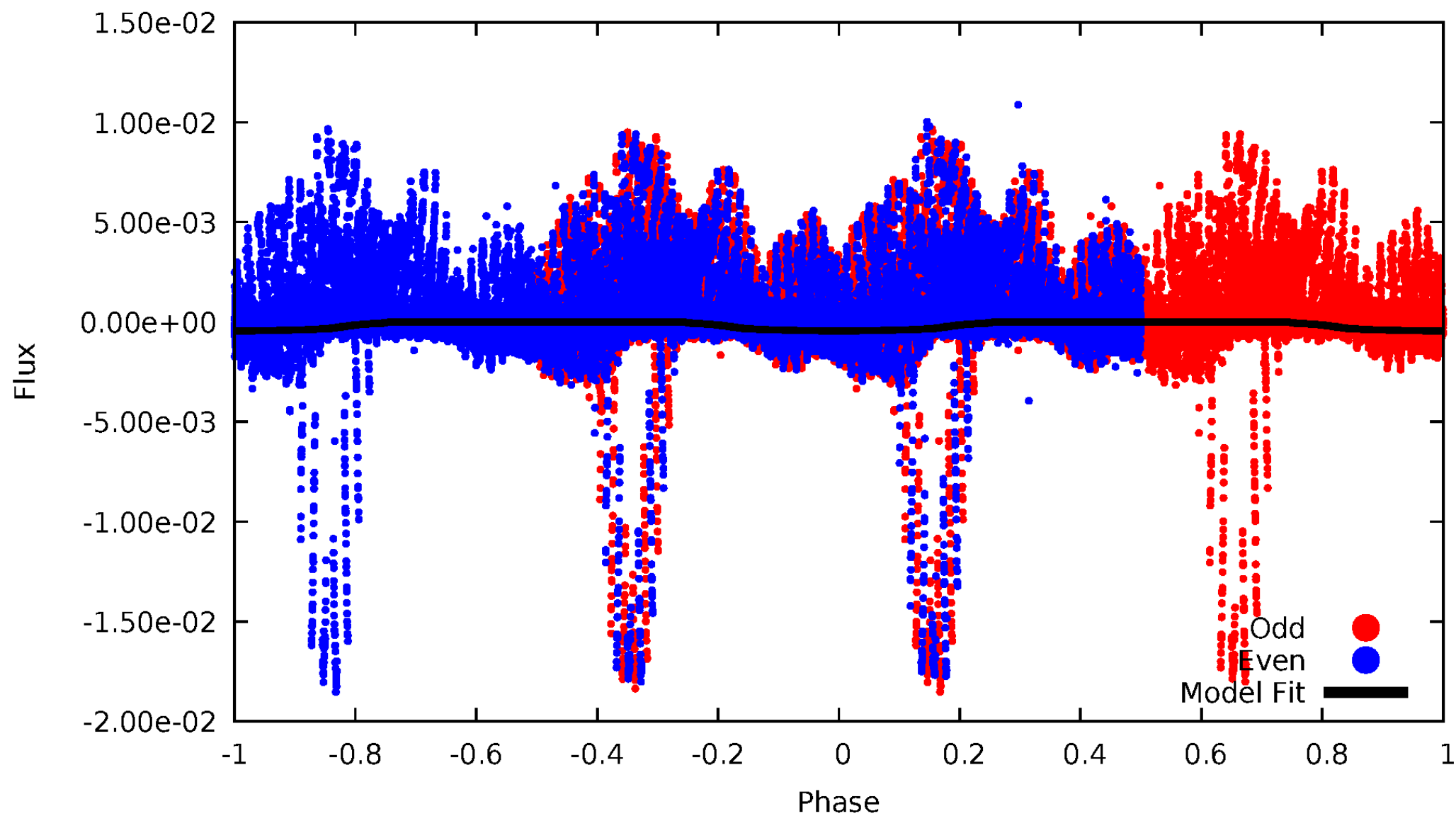


TCE 007199013-01



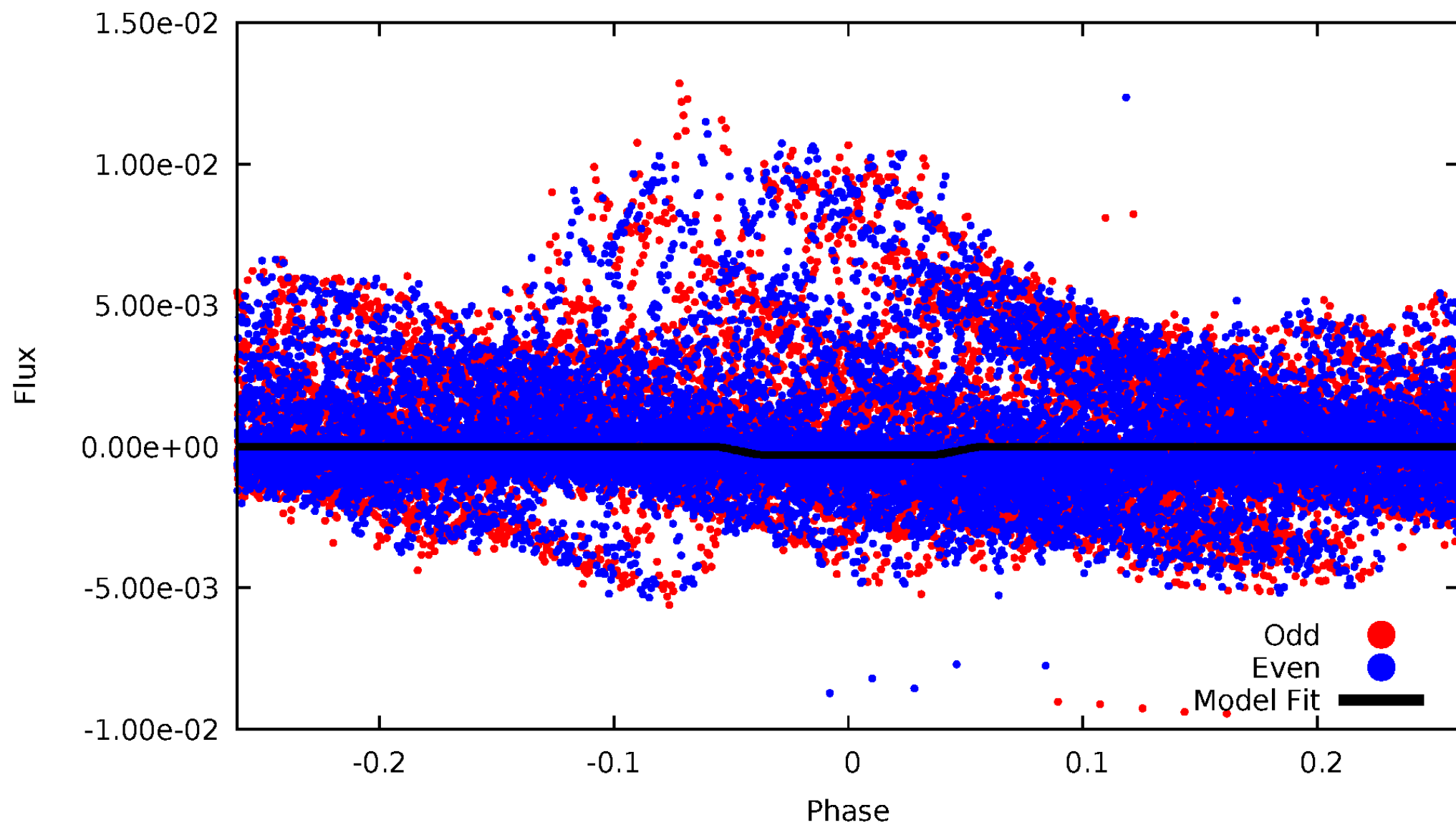
DV Odd/Even

TCE 007199013-01



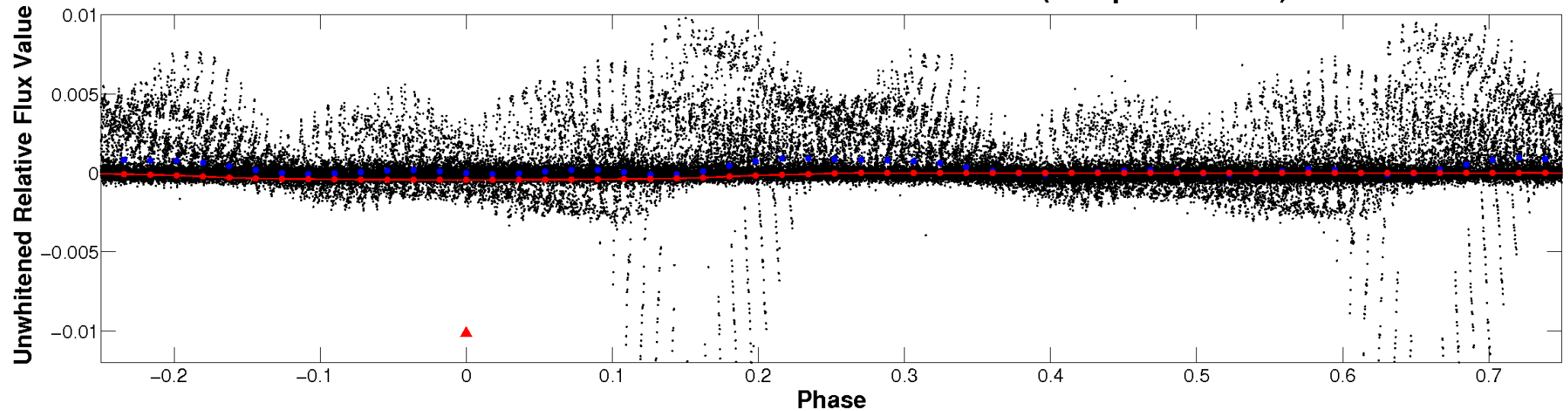
ALT Odd/Even

TCE 007199013-01

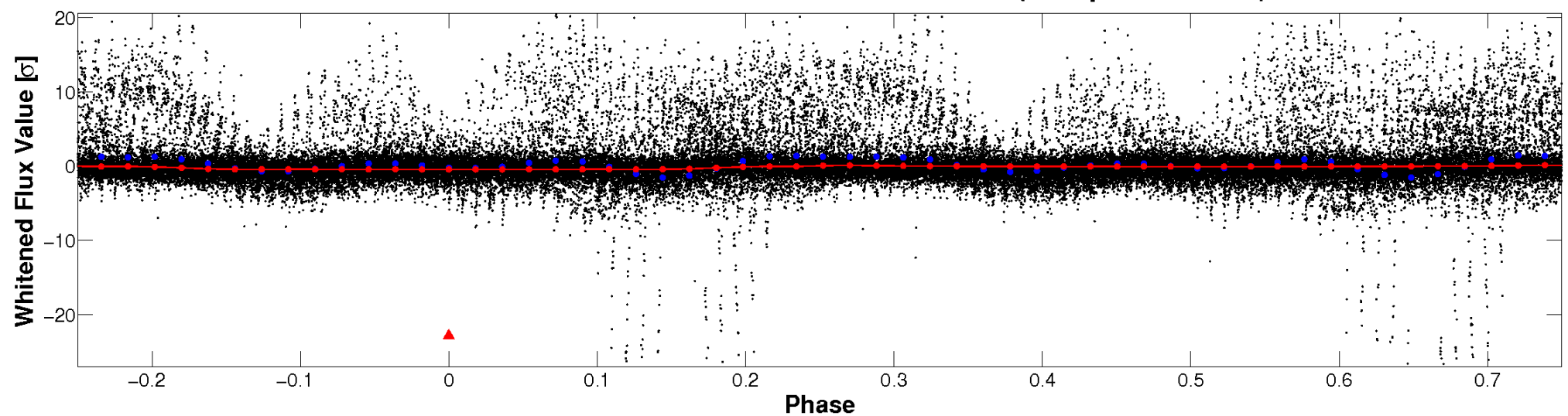


Non-Whitened Vs. Whitened Light Curve

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

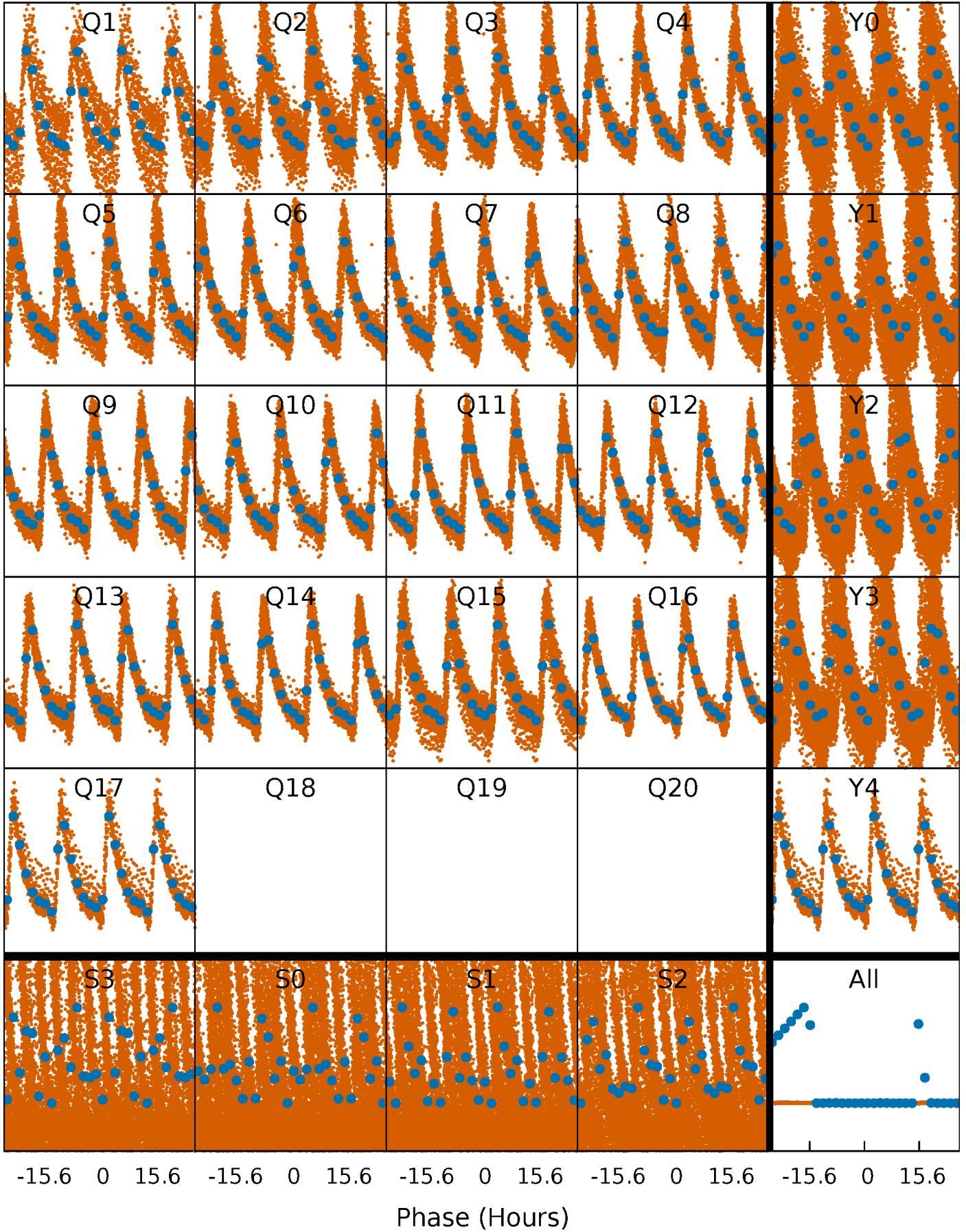


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



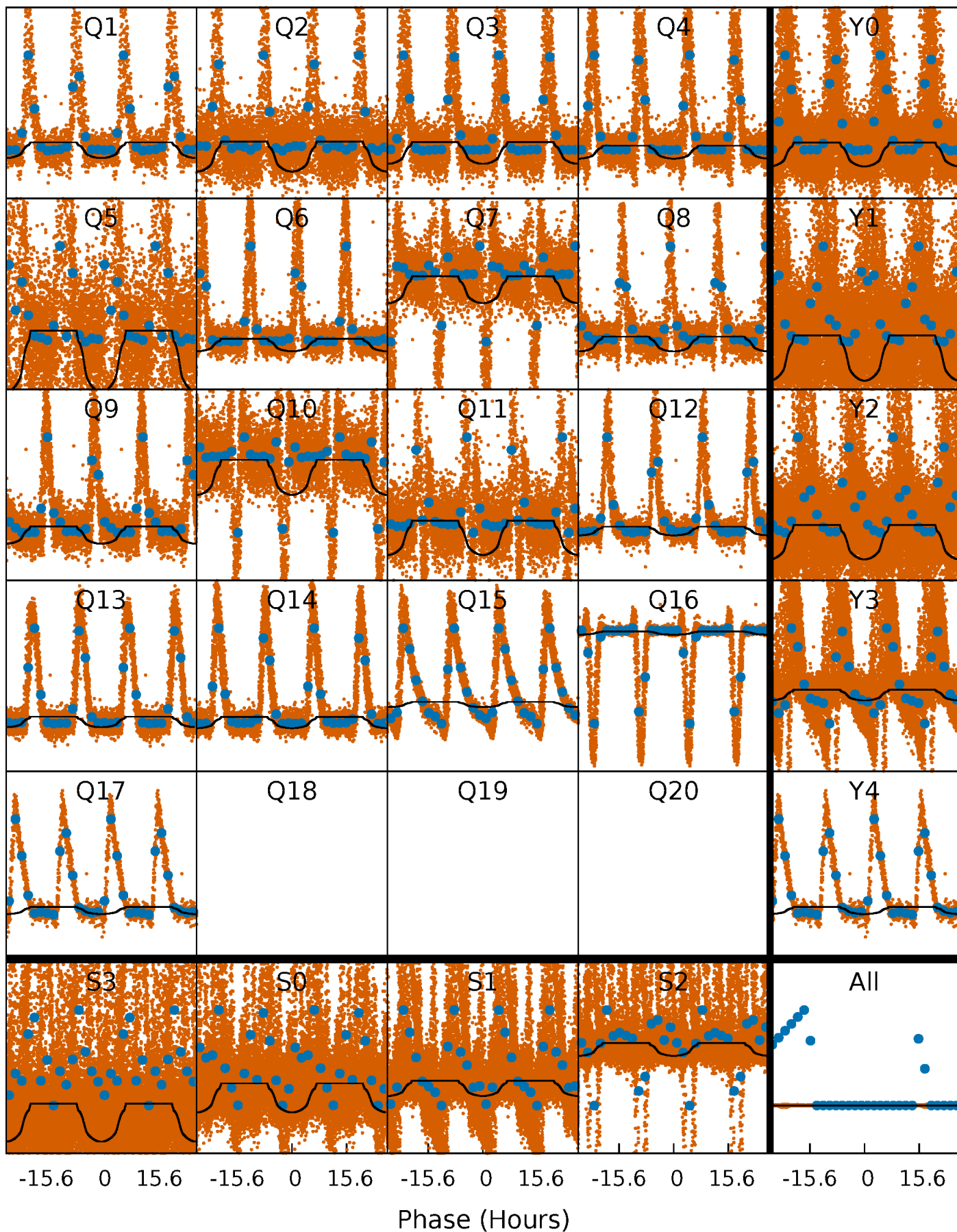
PDC Quarter-Phased Transit Curves

TCE 007199013-01 P= 1.134186 Days $T_0=132.060462$ (BKJD)



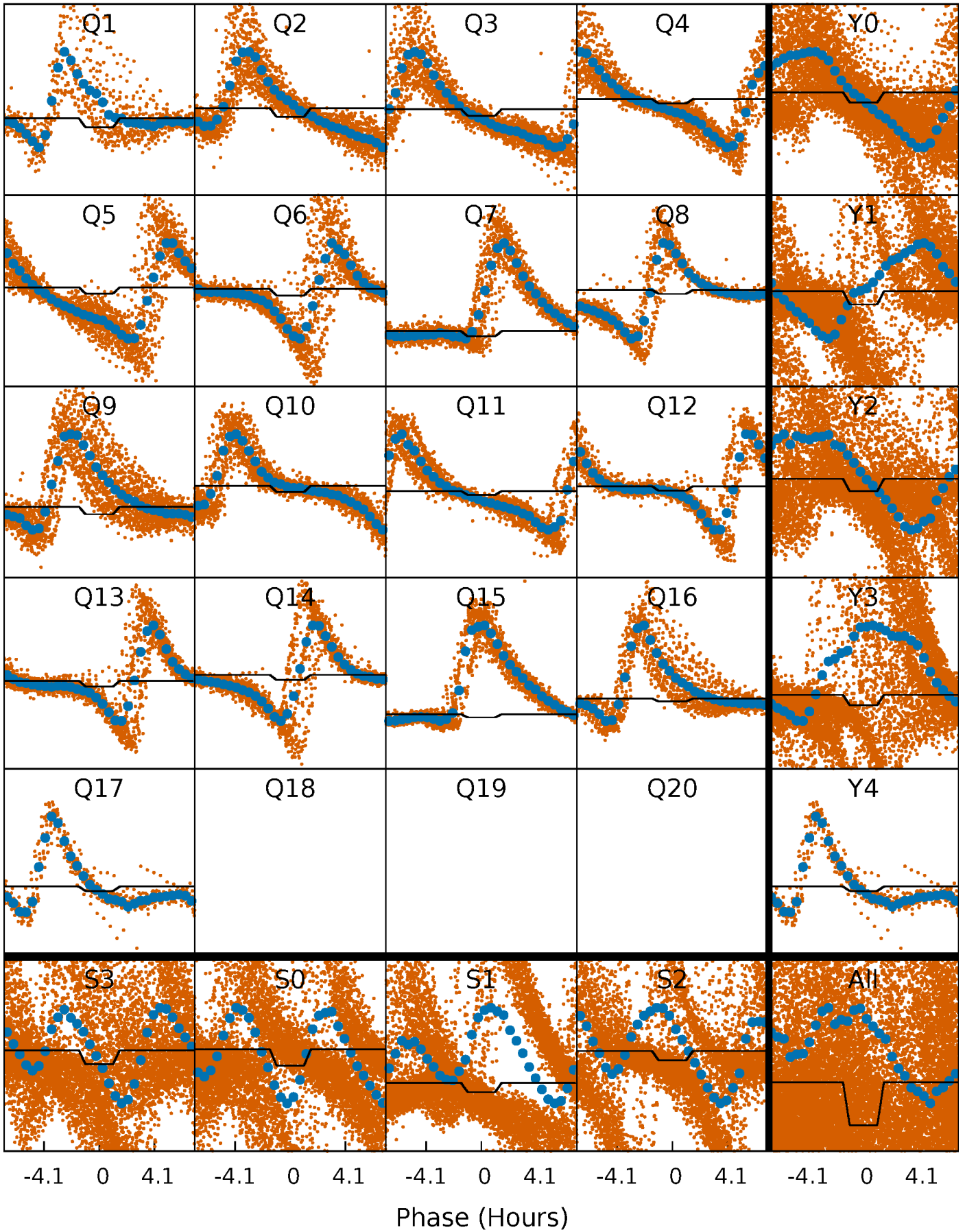
DV Quarter-Phased Transit Curves

TCE 007199013-01 P= 1.134186 Days $T_0=132.060462$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

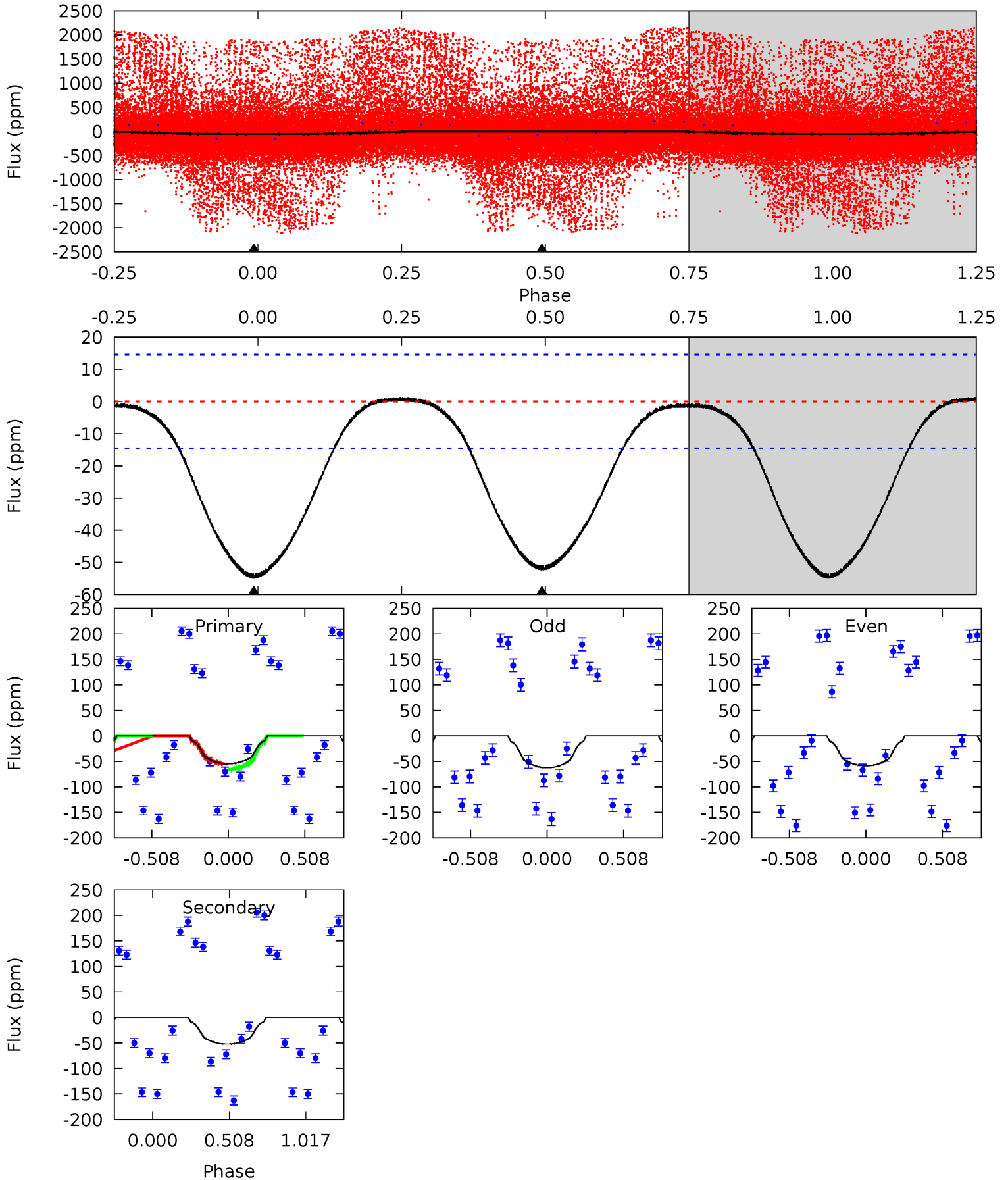
TCE 007199013-01 P= 1.134550 Days $T_0=131.854781$ (BKJD)



DV Model-Shift Uniqueness Test

007199013-01, P = 1.134186 Days, E = 130.926276 Days

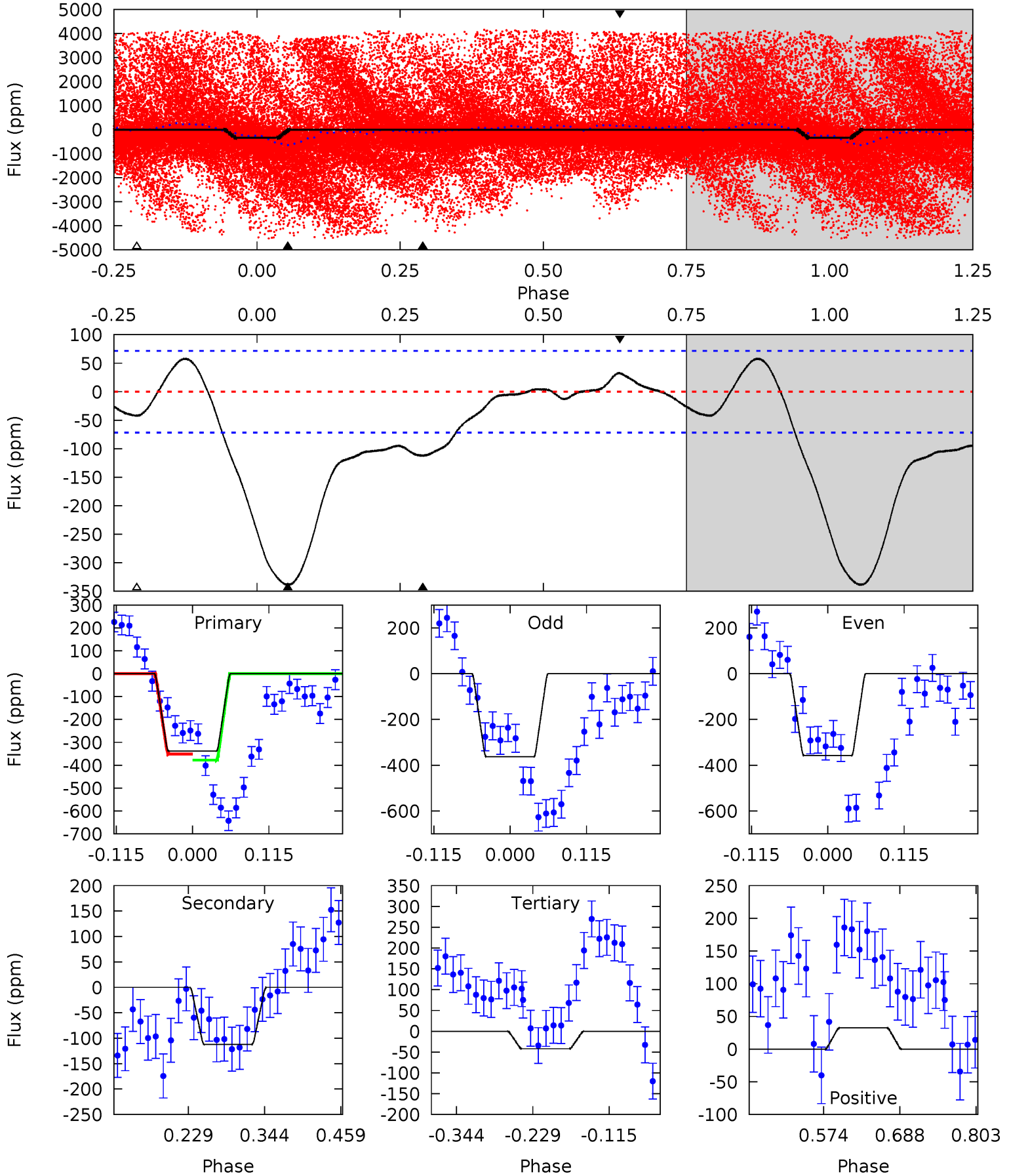
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.8	15.1	0	0	4.21	0.66	0.28	15.8	15.8	15.1	15.1	0.56	1.64	0.03	1.54



Alt Model-Shift Uniqueness Test

007199013-01, P = 1.134550 Days, E = 130.720231 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.4	7.11	2.66	2.05	4.54	1.58	1.74	18.8	19.4	4.45	5.06	0.16	-1.62	0.15	0.83



Stellar Parameters For KIC 007199013

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5283^{+159}_{-143}	$4.508^{+0.099}_{-0.081}$	$-0.300^{+0.350}_{-0.300}$	$0.794^{+0.102}_{-0.102}$	$0.742^{+0.110}_{-0.055}$	$2.085^{+0.801}_{-0.530}$
	+3%/-3%	+2%/-2%	+117%/-100%	+13%/-13%	+15%/-7%	+38%/-25%
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 007199013-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-52 ± 3	$2.04^{+0.17}_{-0.15}$	2092^{+97}_{-99}	3360^{+77}_{-77}	$2.575^{+0.434}_{-0.353}$
Alt.	-112 ± 16	$1.51^{+0.12}_{-0.11}$	2094^{+99}_{-88}	4307^{+161}_{-159}	10^{+2}_{-2}

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 $A_{obs} \gg 1.0$

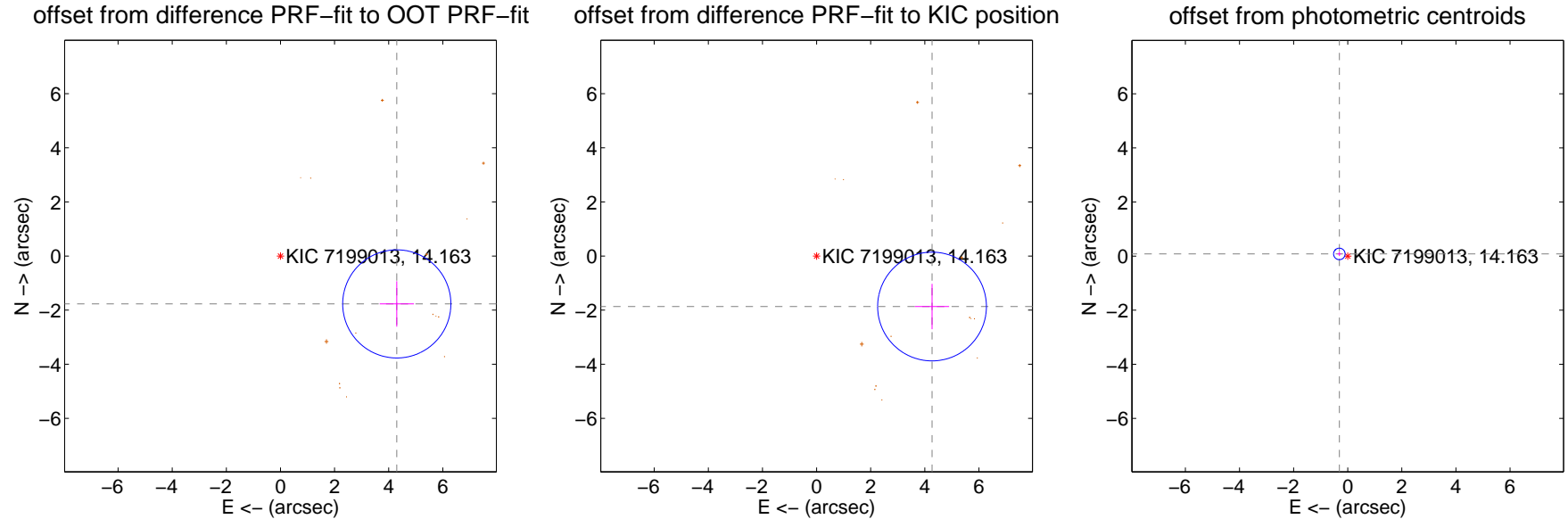
DV Centroid Data

Supplemental centroid analysis for 007199013-01. Kepler magnitude: 14.16. Transit SNR 62.45

There are 0 quarters with good PRF difference image offsets

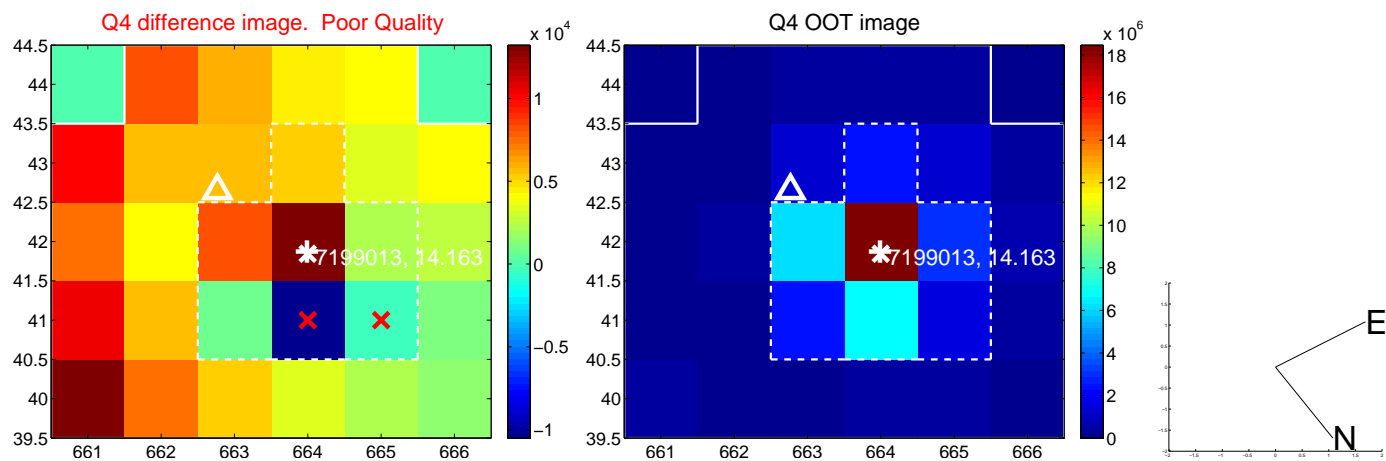
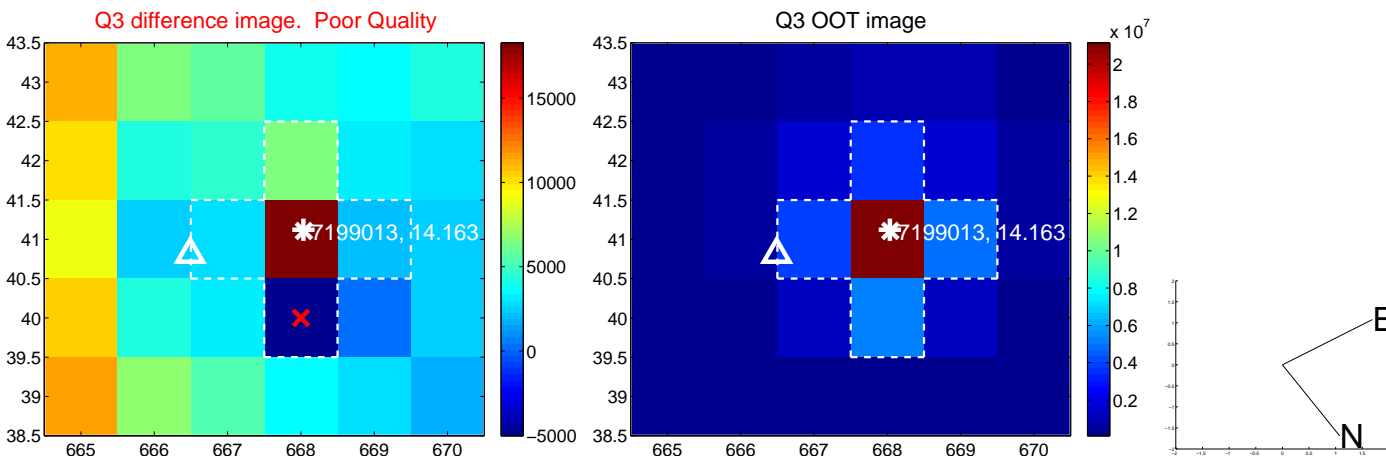
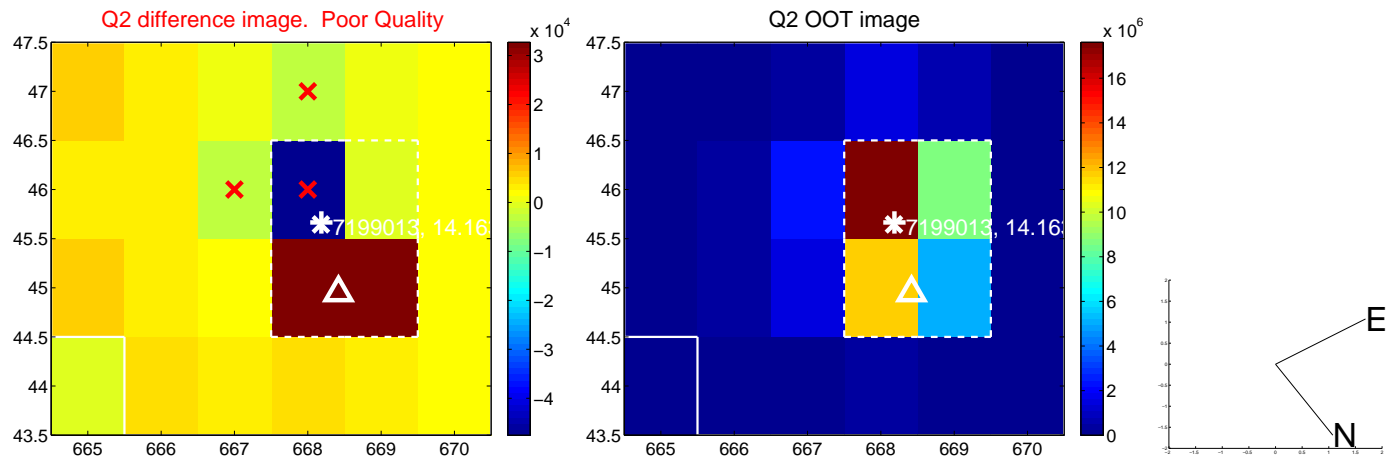
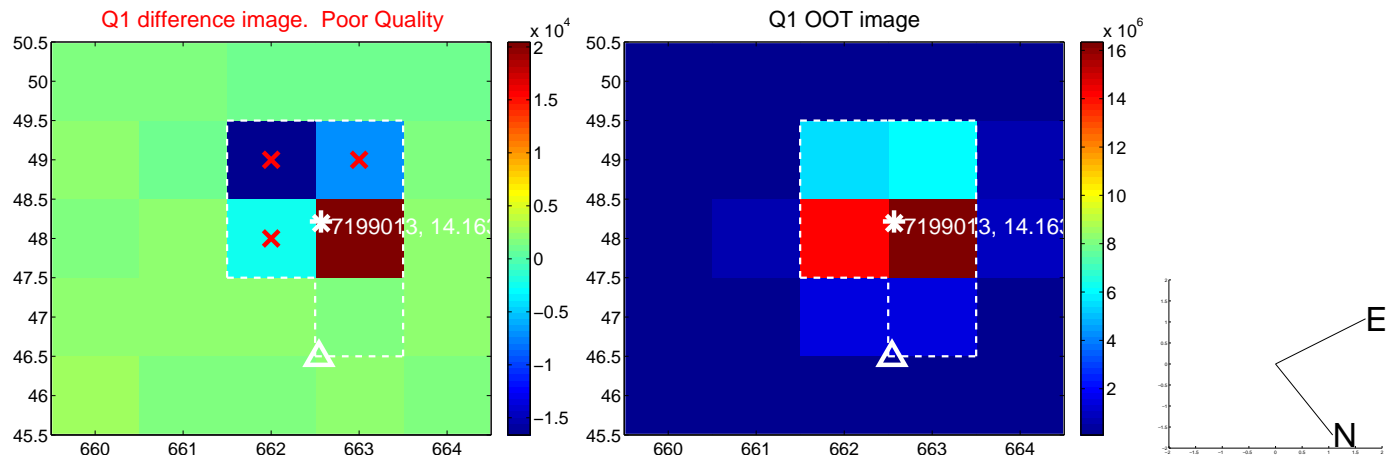
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.648 ± 0.666	6.98	-4.298 ± 0.632	-1.770 ± 0.840
PRF-fit source offset from KIC position	4.656 ± 0.670	6.95	-4.266 ± 0.633	-1.866 ± 0.837
photometric centroid source offset	0.32 ± 0.07	4.51	0.31 ± 0.07	0.08 ± 0.08

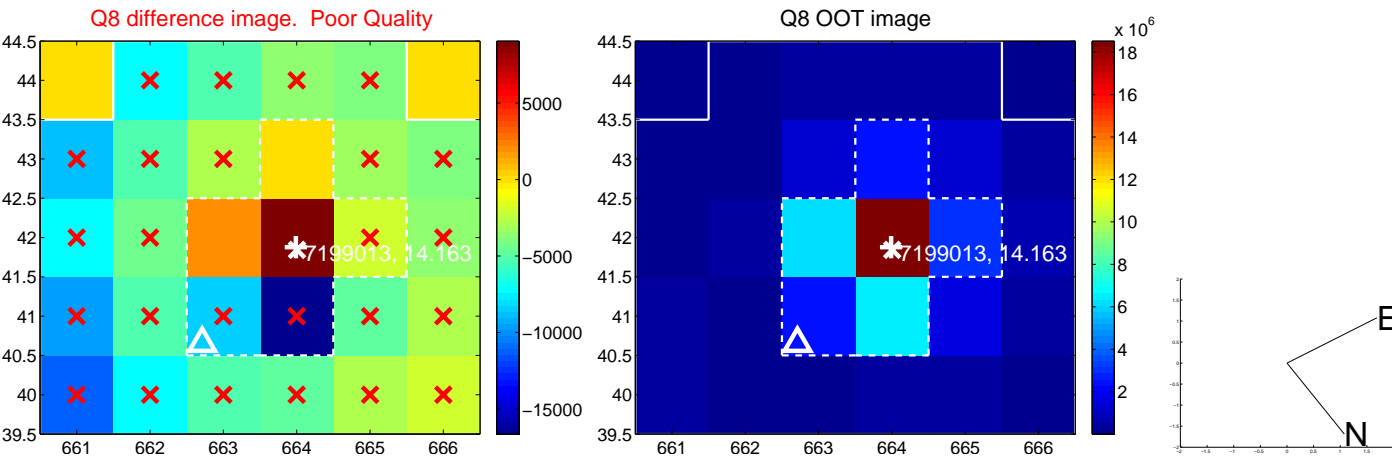
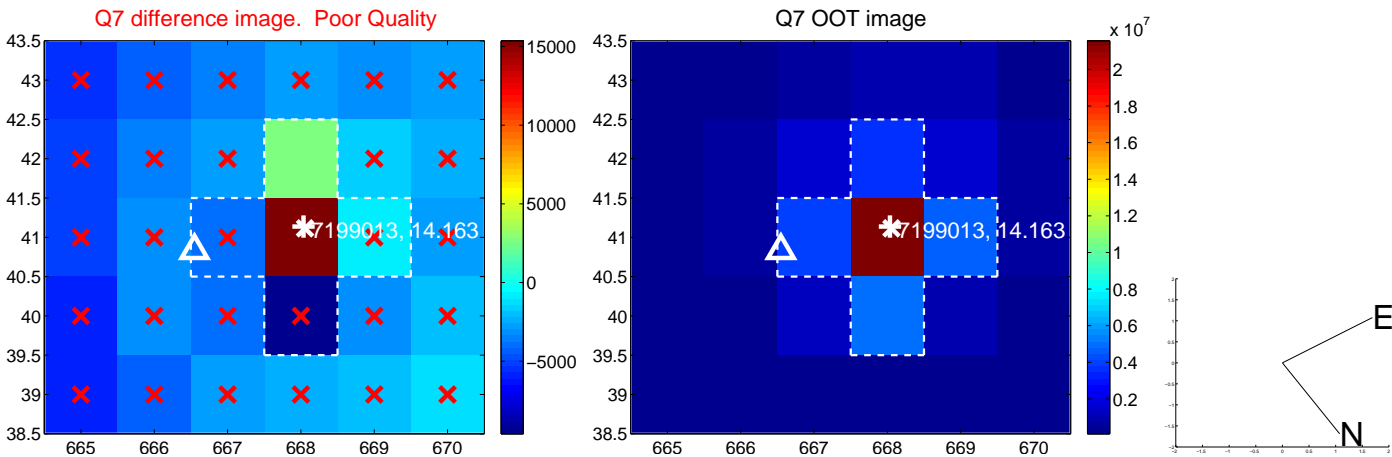
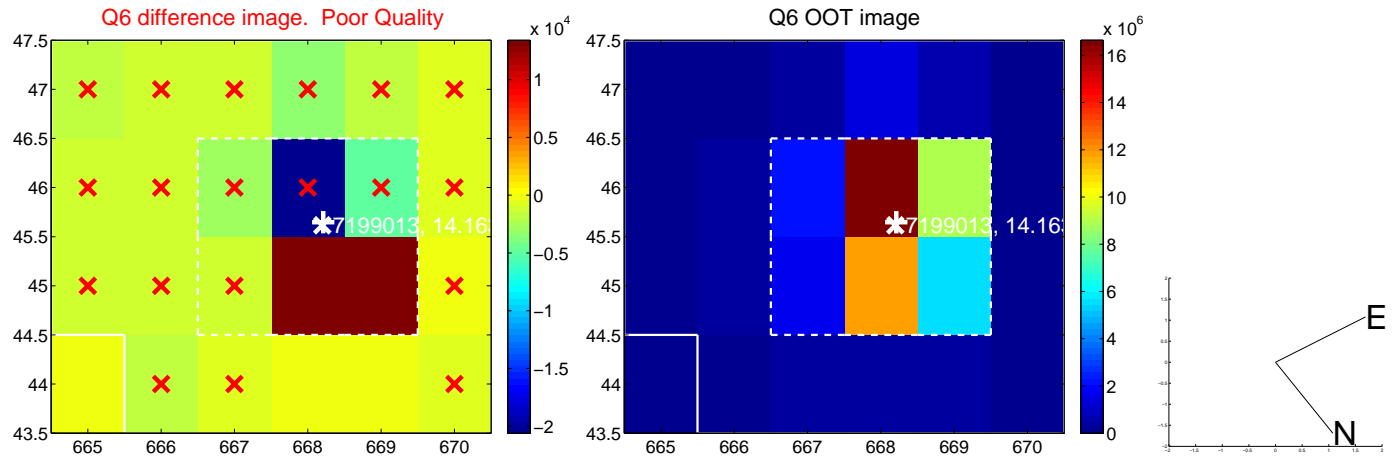
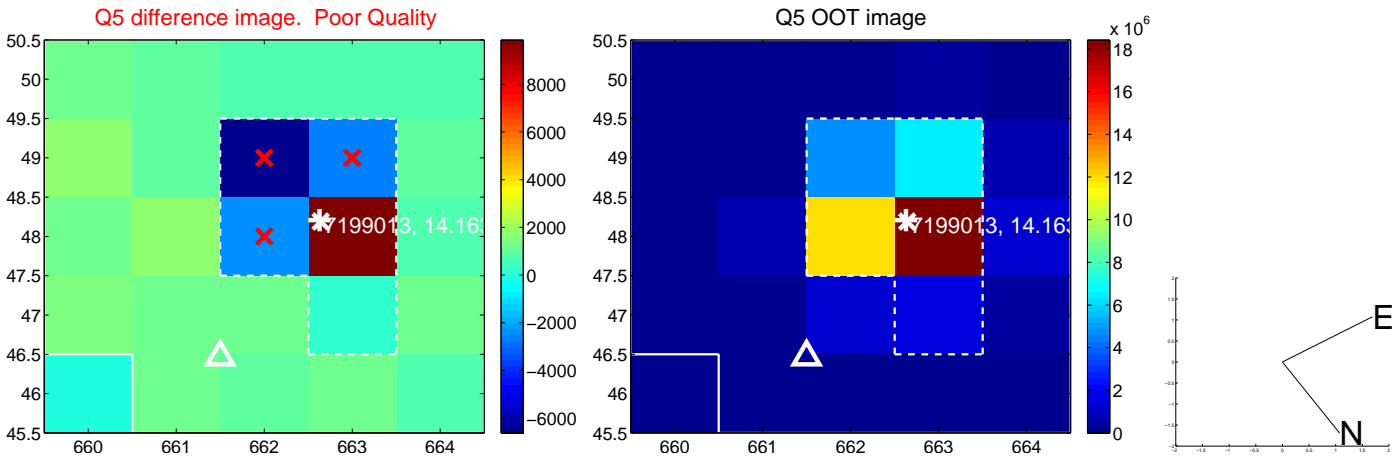


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

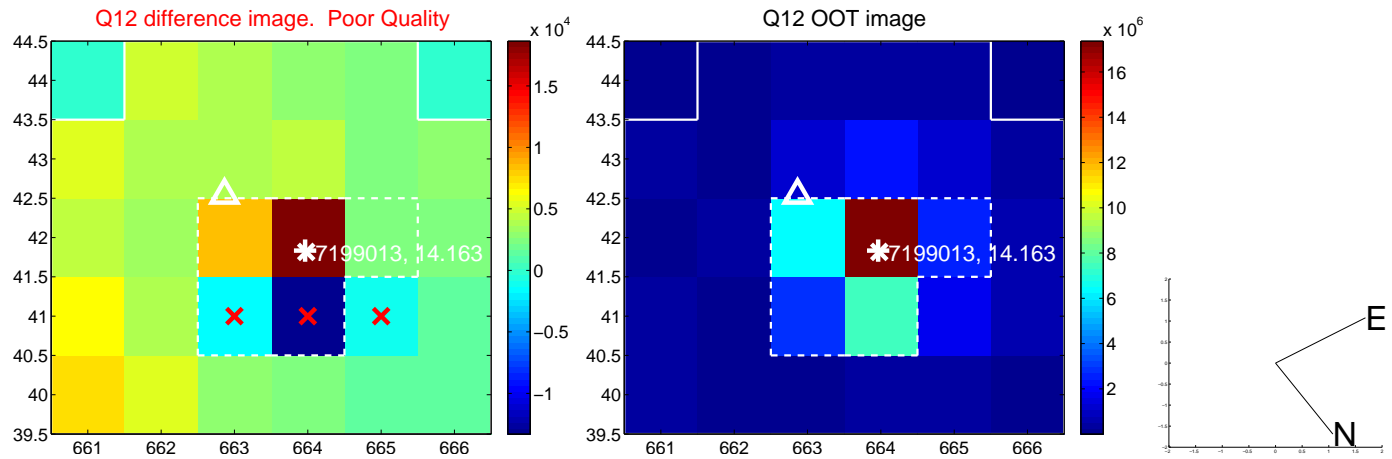
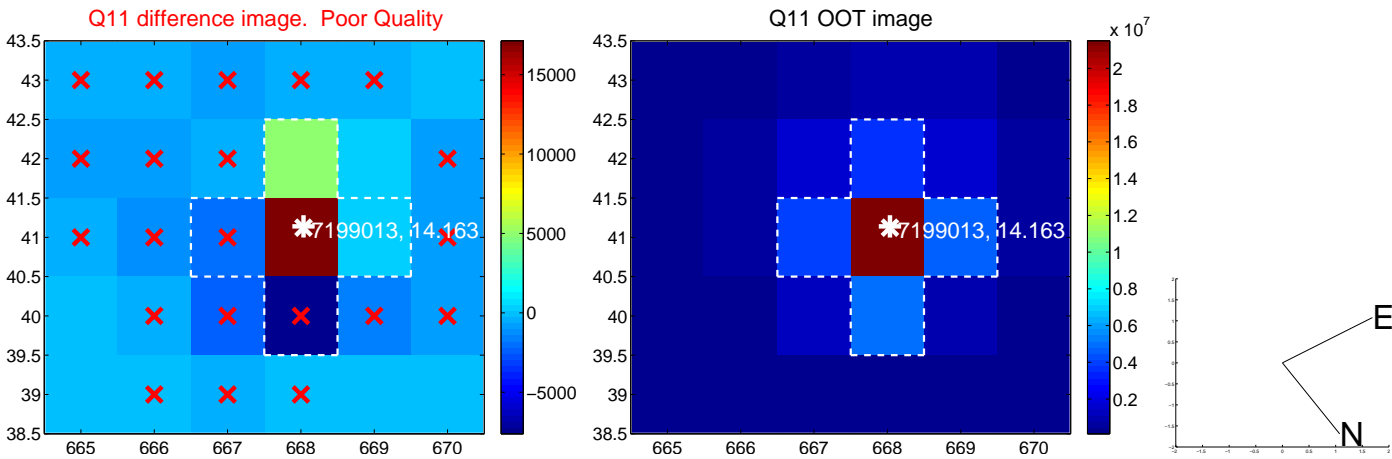
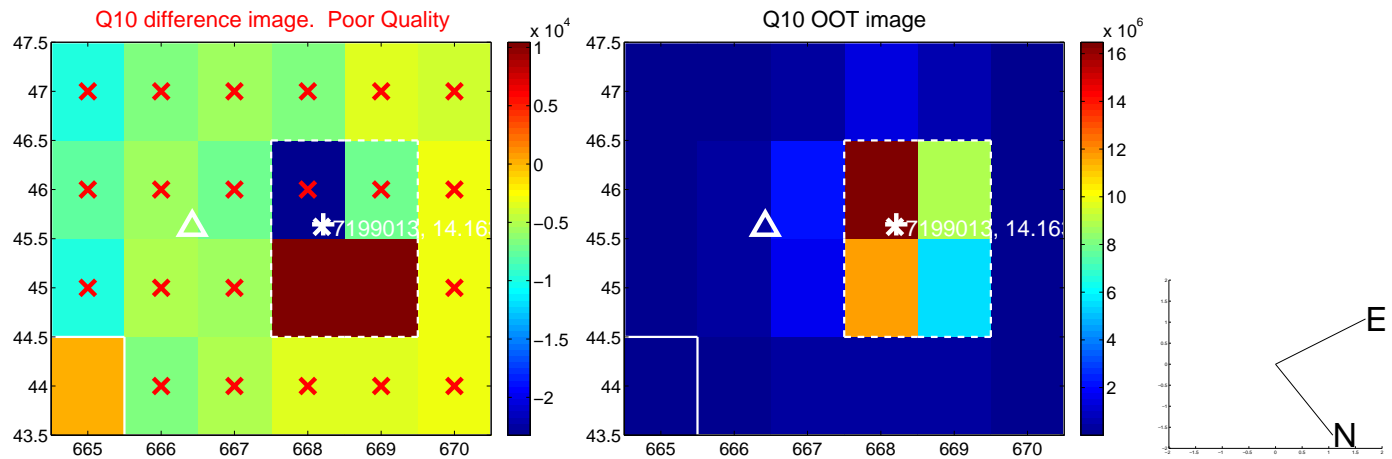
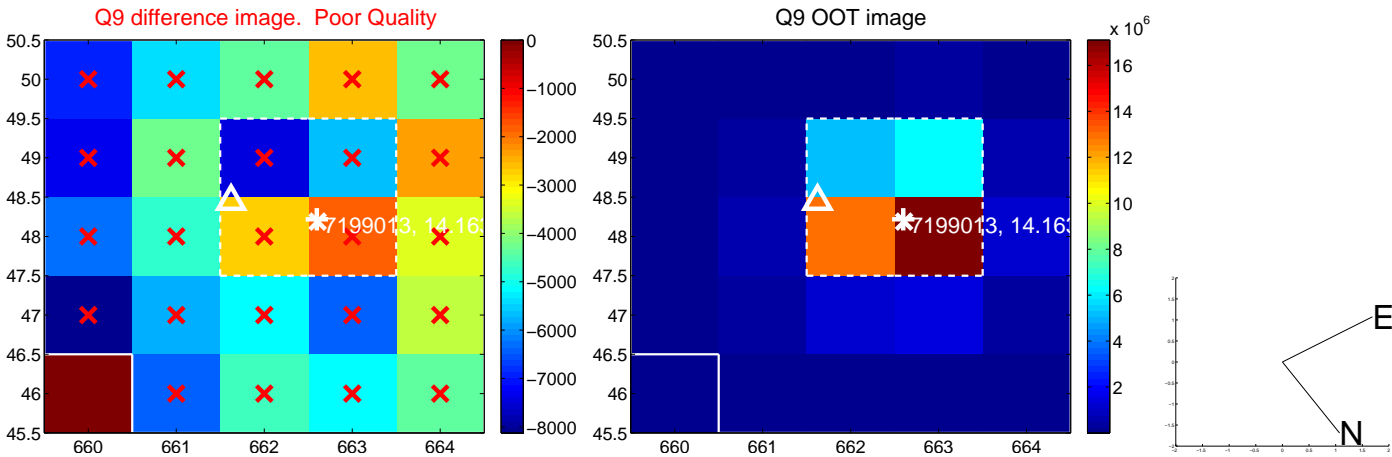
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



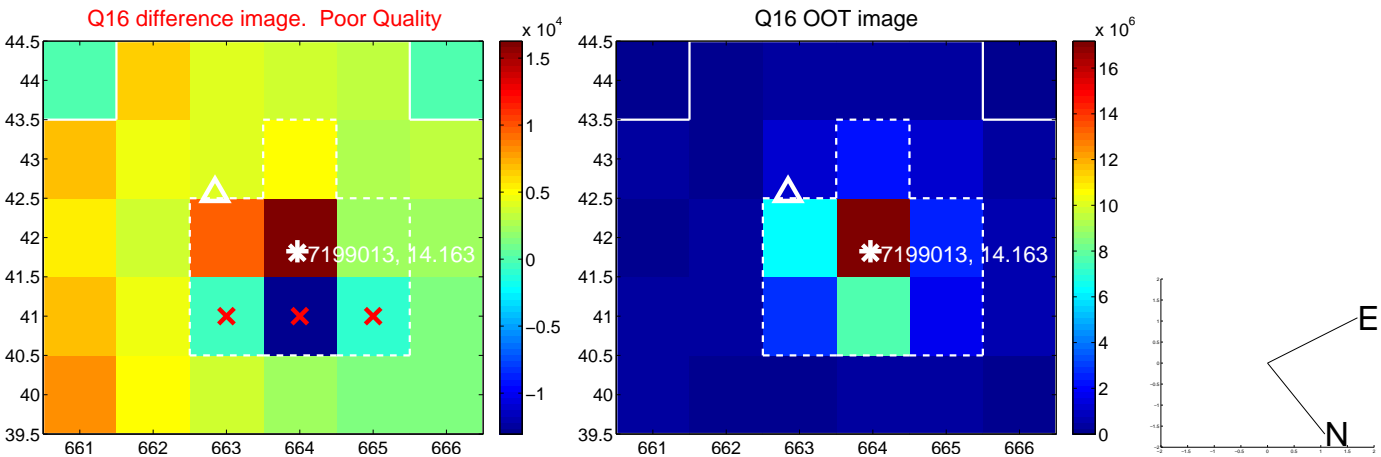
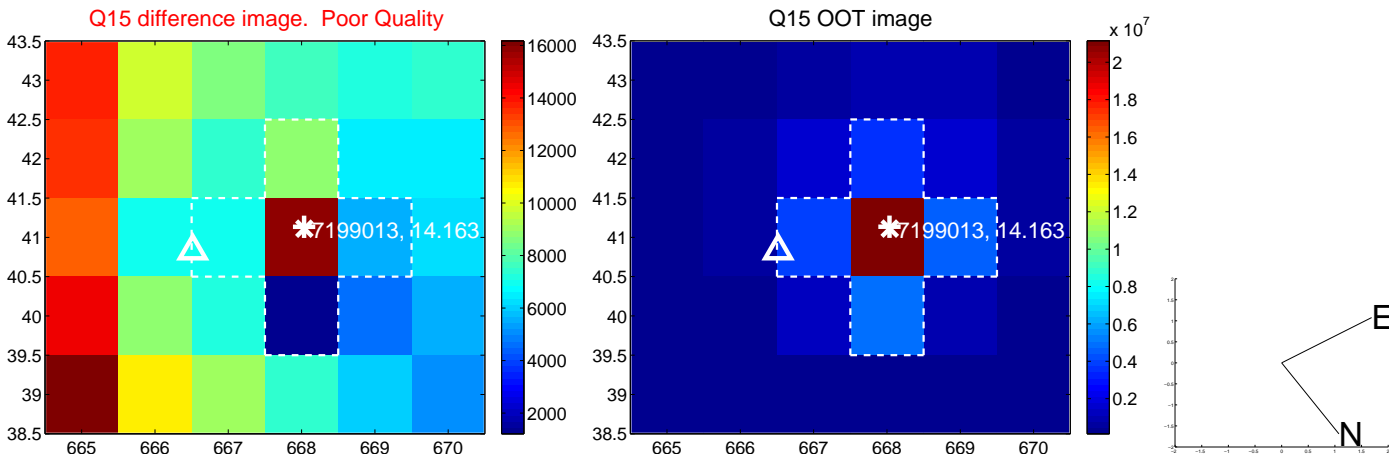
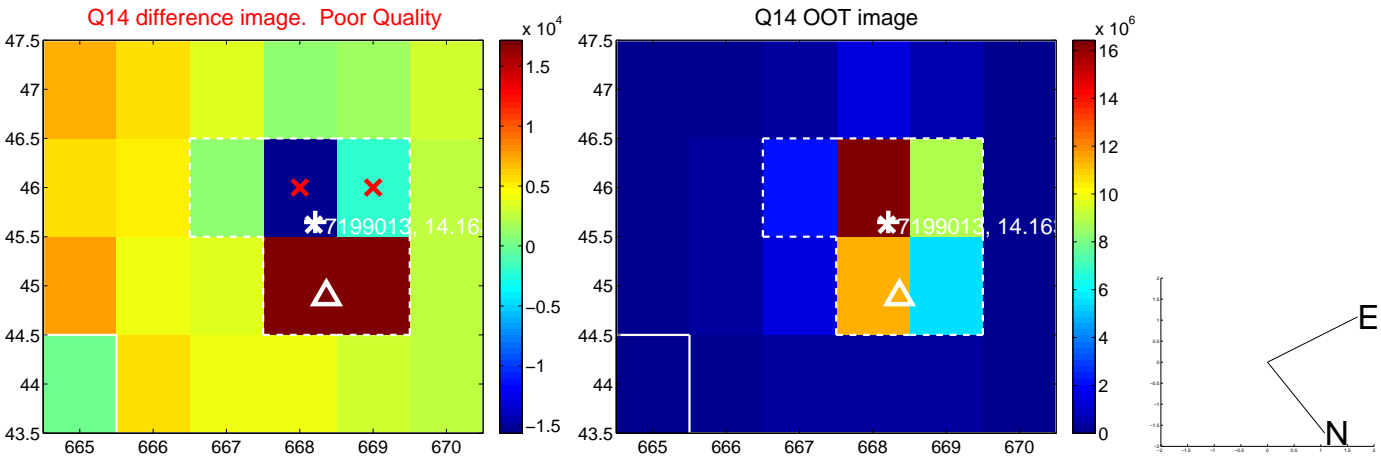
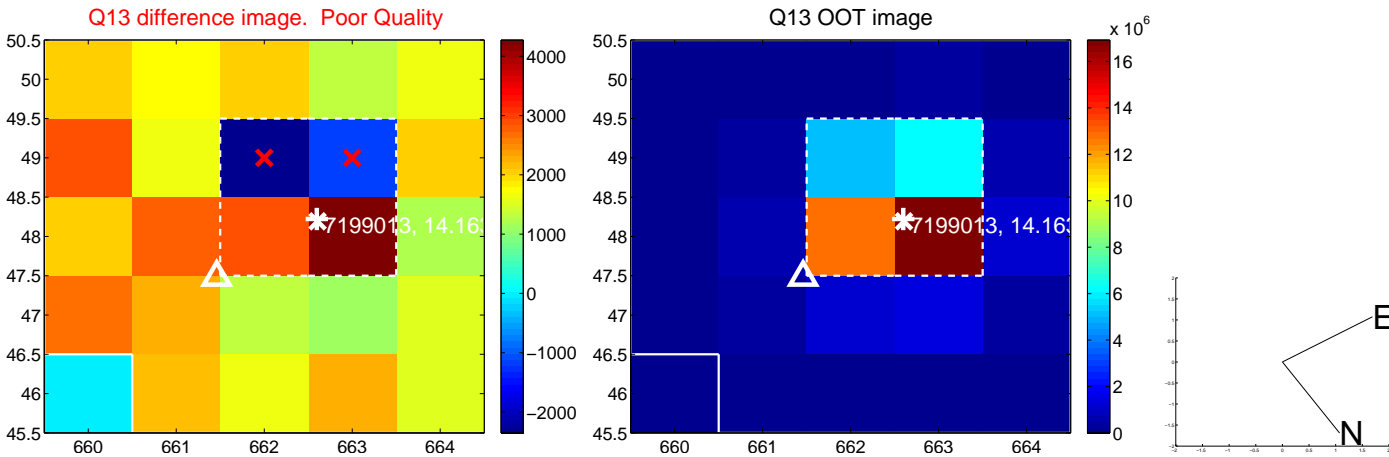
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



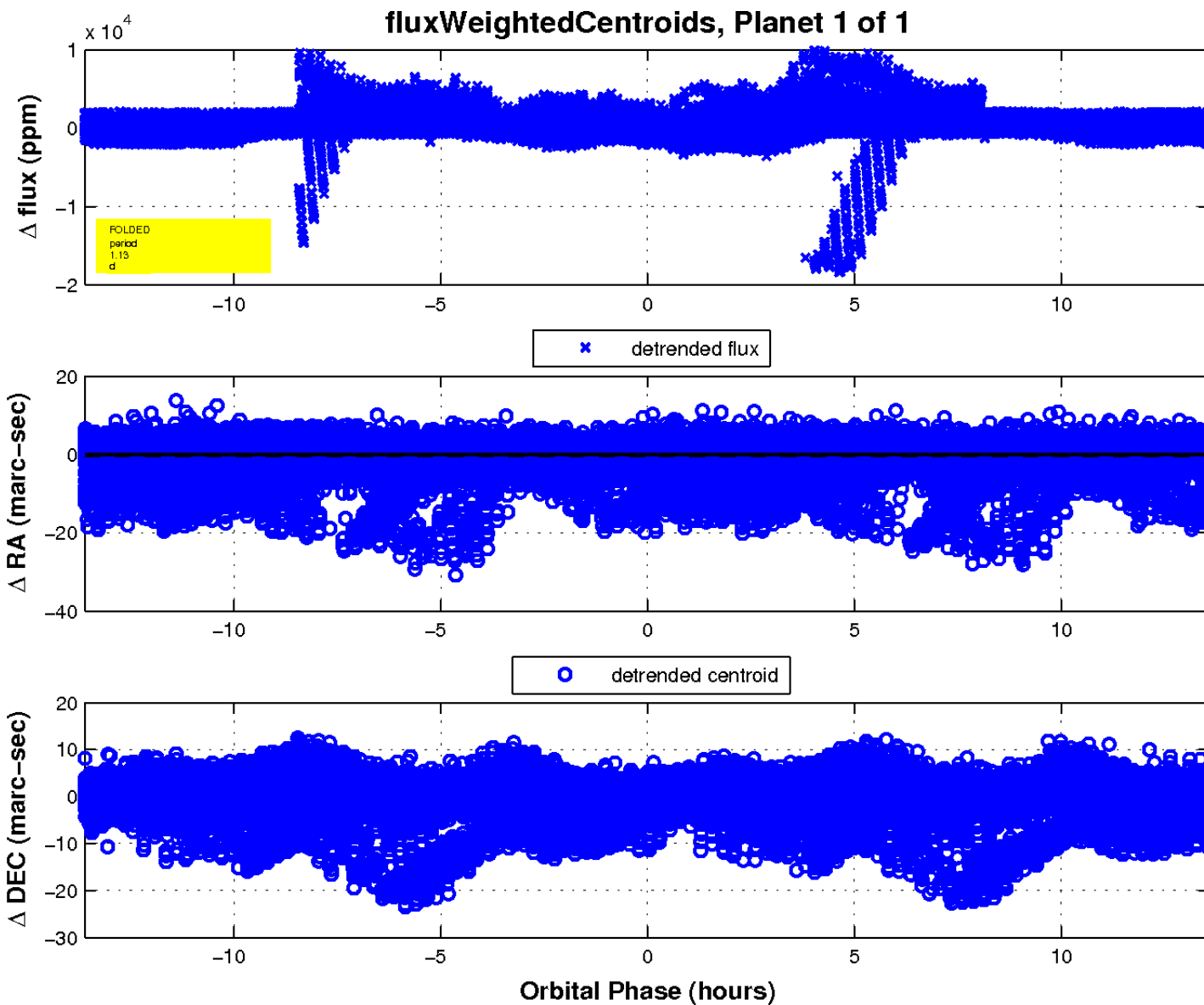
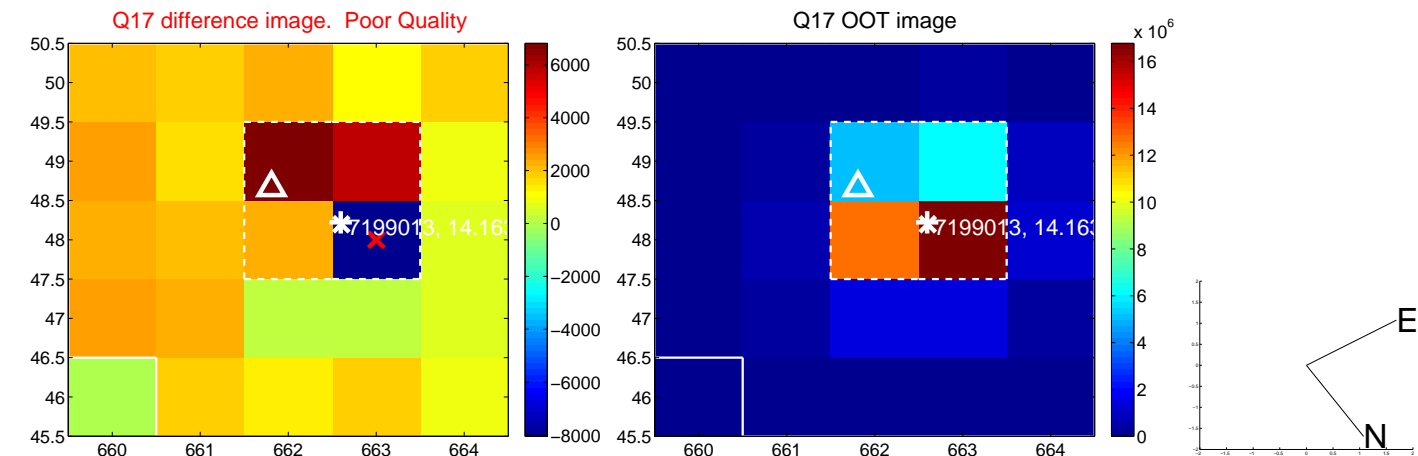
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

