

KIC 006468848

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})
006468848-01	OBS	No	1.269529	131.848495	8.4	13.698	8.8	7.7	2.89	8806	0.85	54335.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006468848-01	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.

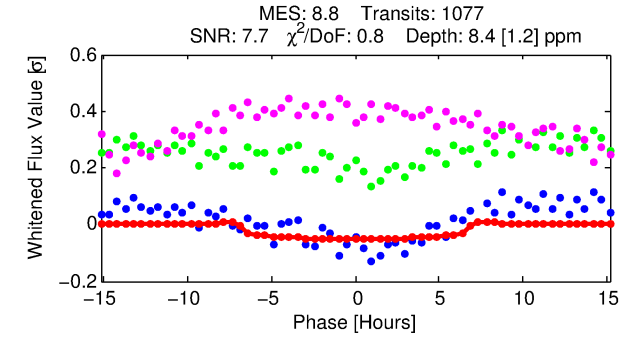
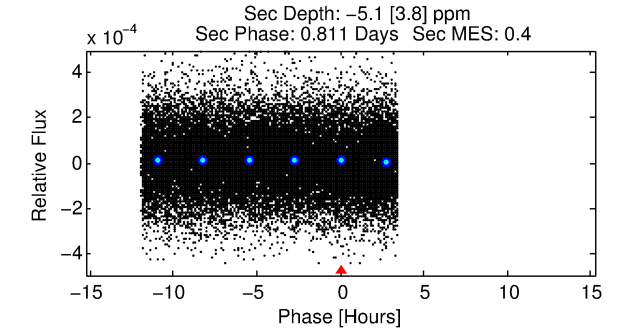
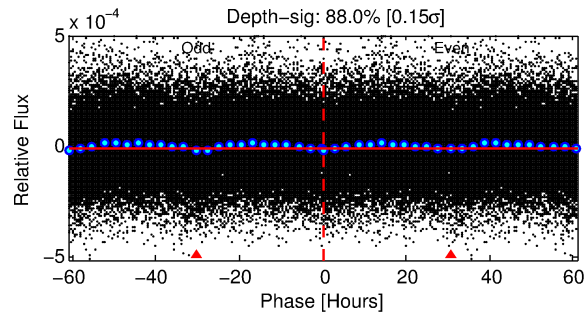
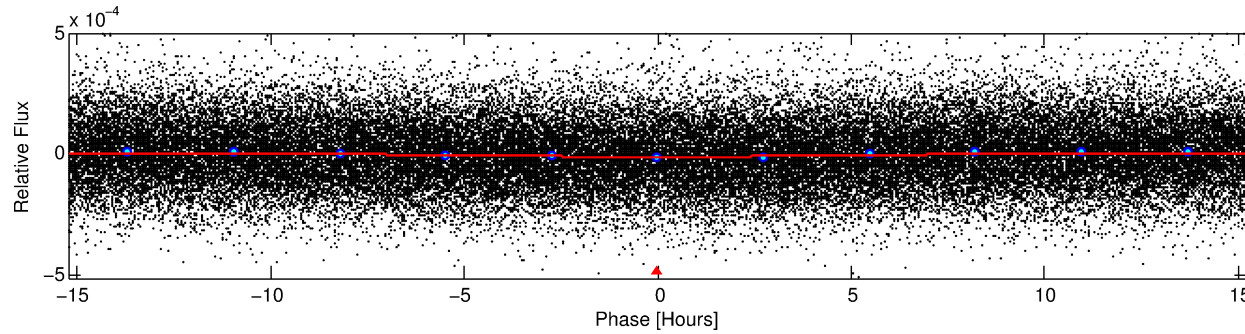
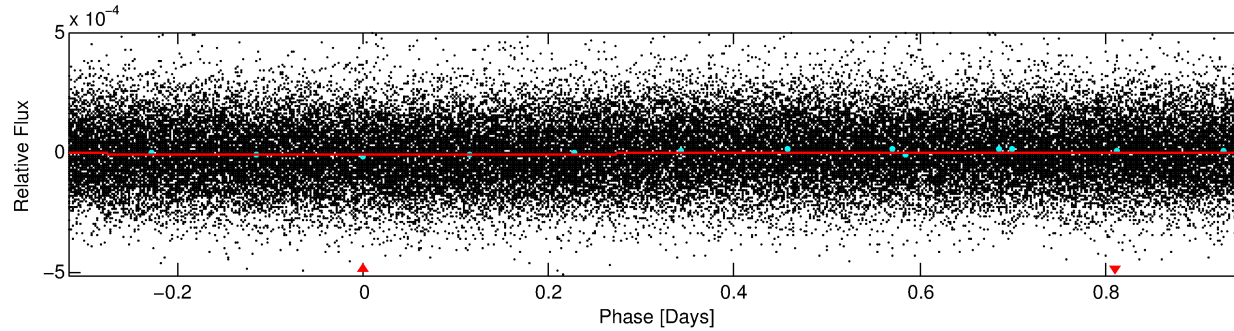
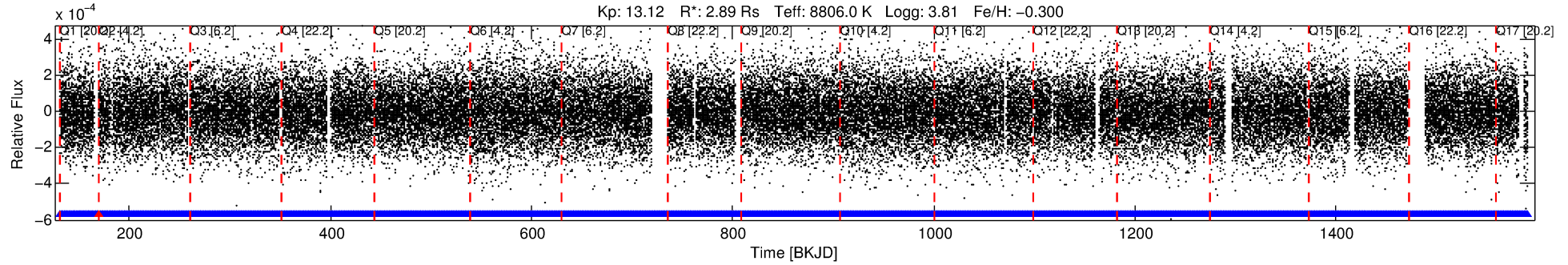
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006468848-01

No Significant Match Found

DV One-Page Summary

KIC: 6468848 Candidate: 1 of 1 Period: 1.270 d



DV Fit Results:

Period = 1.26953 [0.00004] d
Epoch = 131.8485 [0.0133] BKJD
Rp/R* = 0.0027 [0.0022]
a/R* = 1.02 [0.15]
b = 0.01 [455.32]
Seff = 54335.59 [37595.22]
Teq = 3893 [673] K
Rp = 0.85 [0.78] Re
a = 0.0288 [0.0119] AU
Ag = N/A
Teffp = N/A

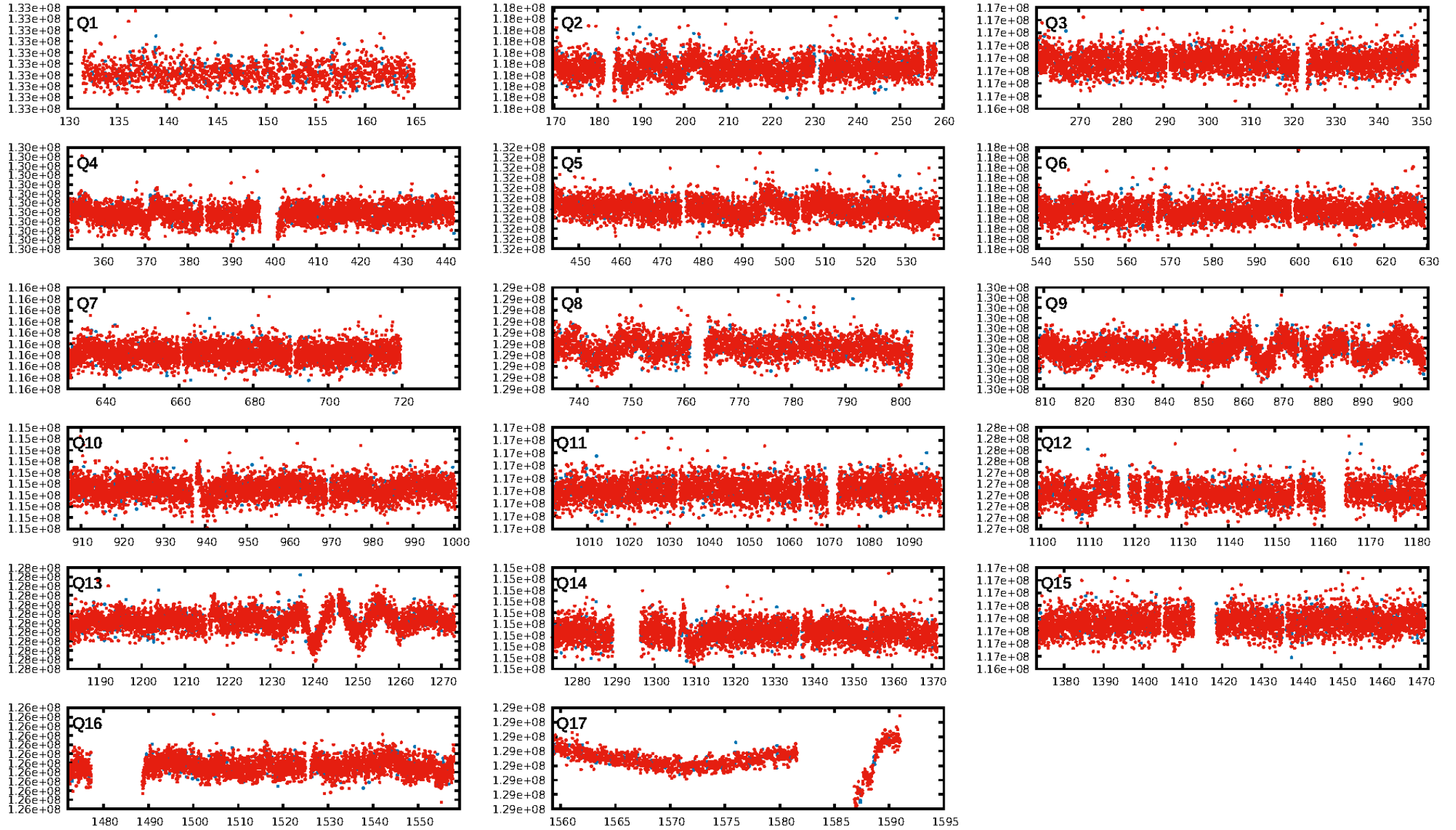
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1027/1028]
GhostDiagnostic-chr: 1.906
Centroid-sig: 82.9%
Centroid-so: 0.482 arcsec [0.25 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

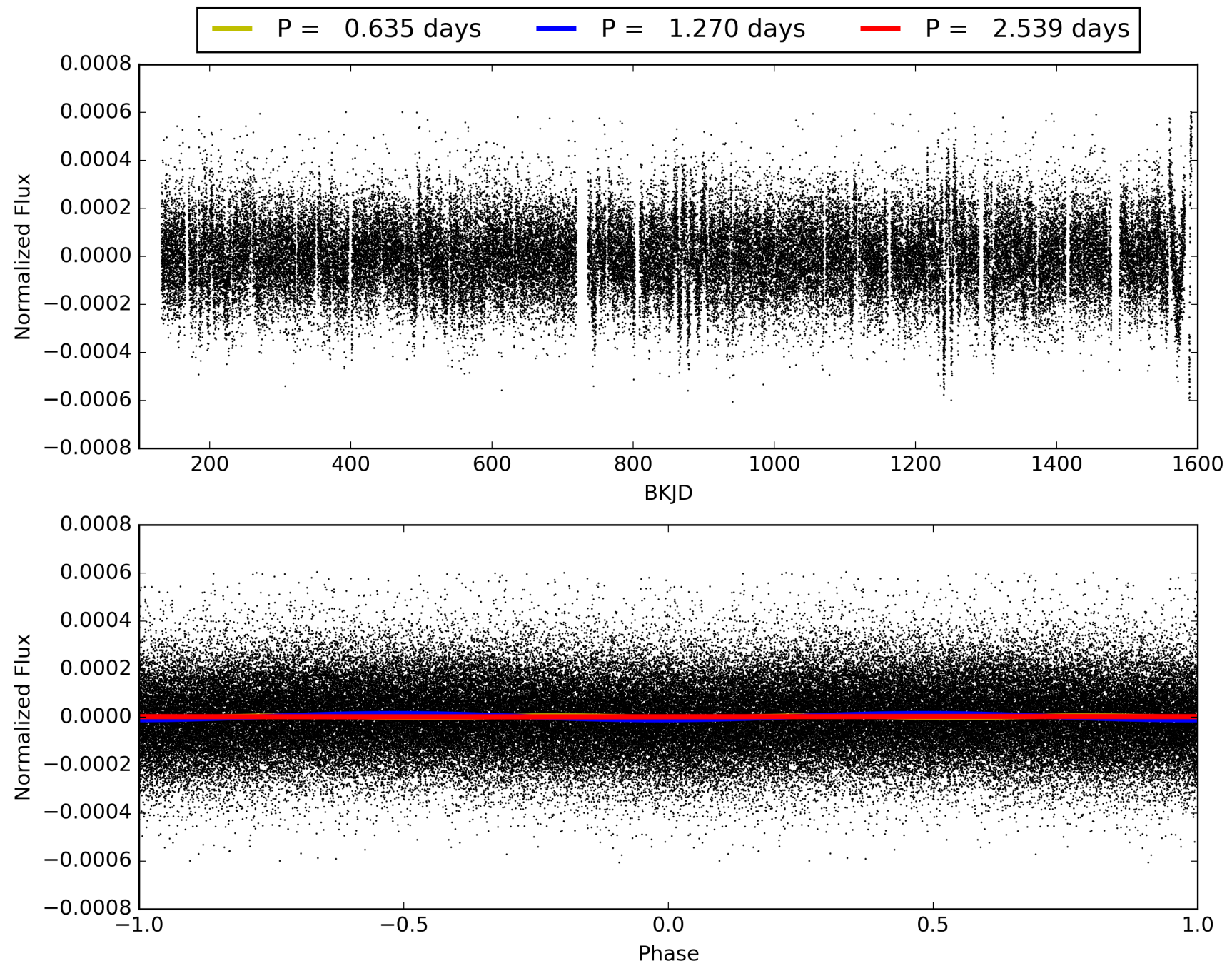
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:40:08 Z

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

TCE 006468848-01, PDC Light Curves

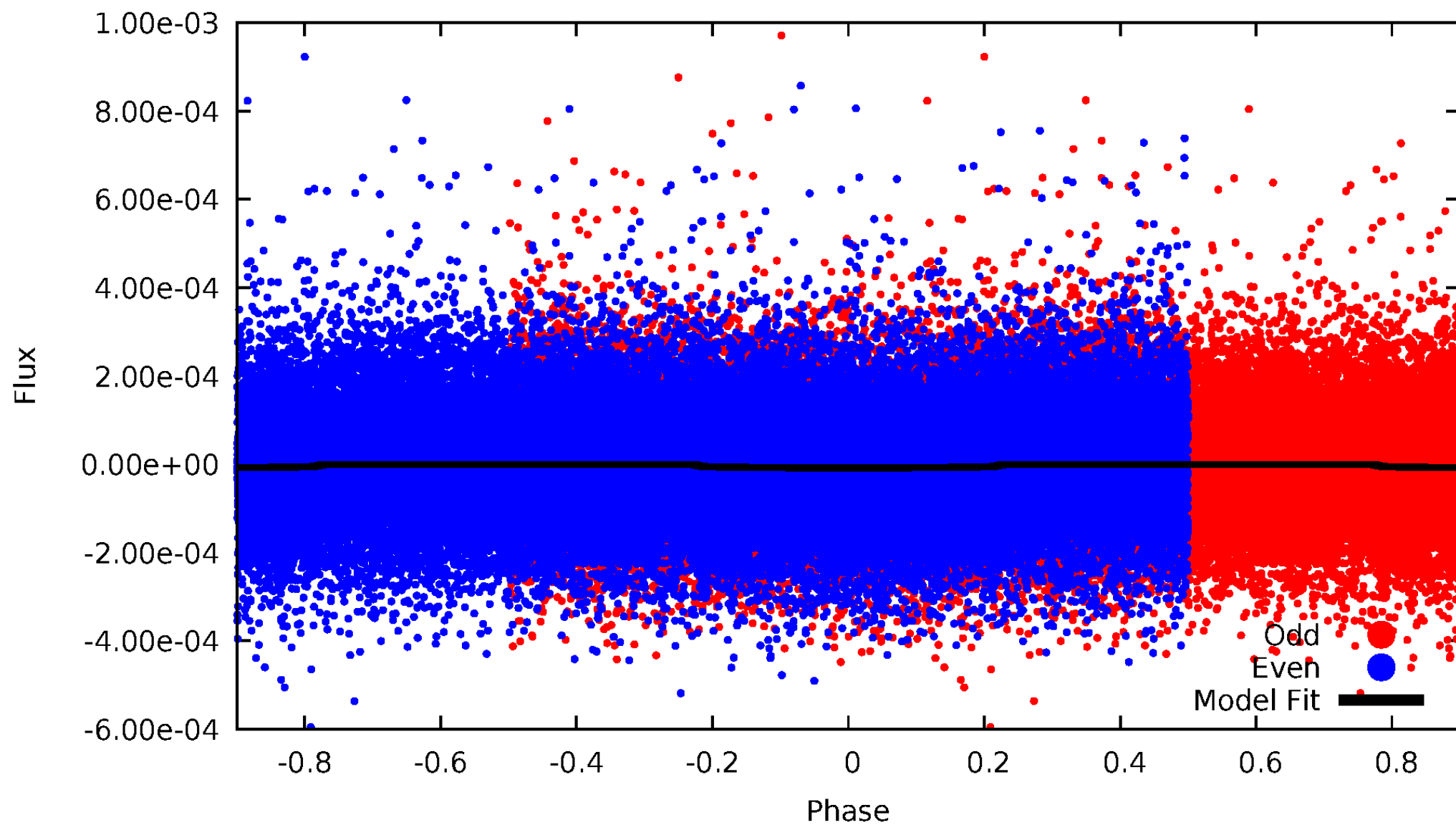


TCE 006468848-01



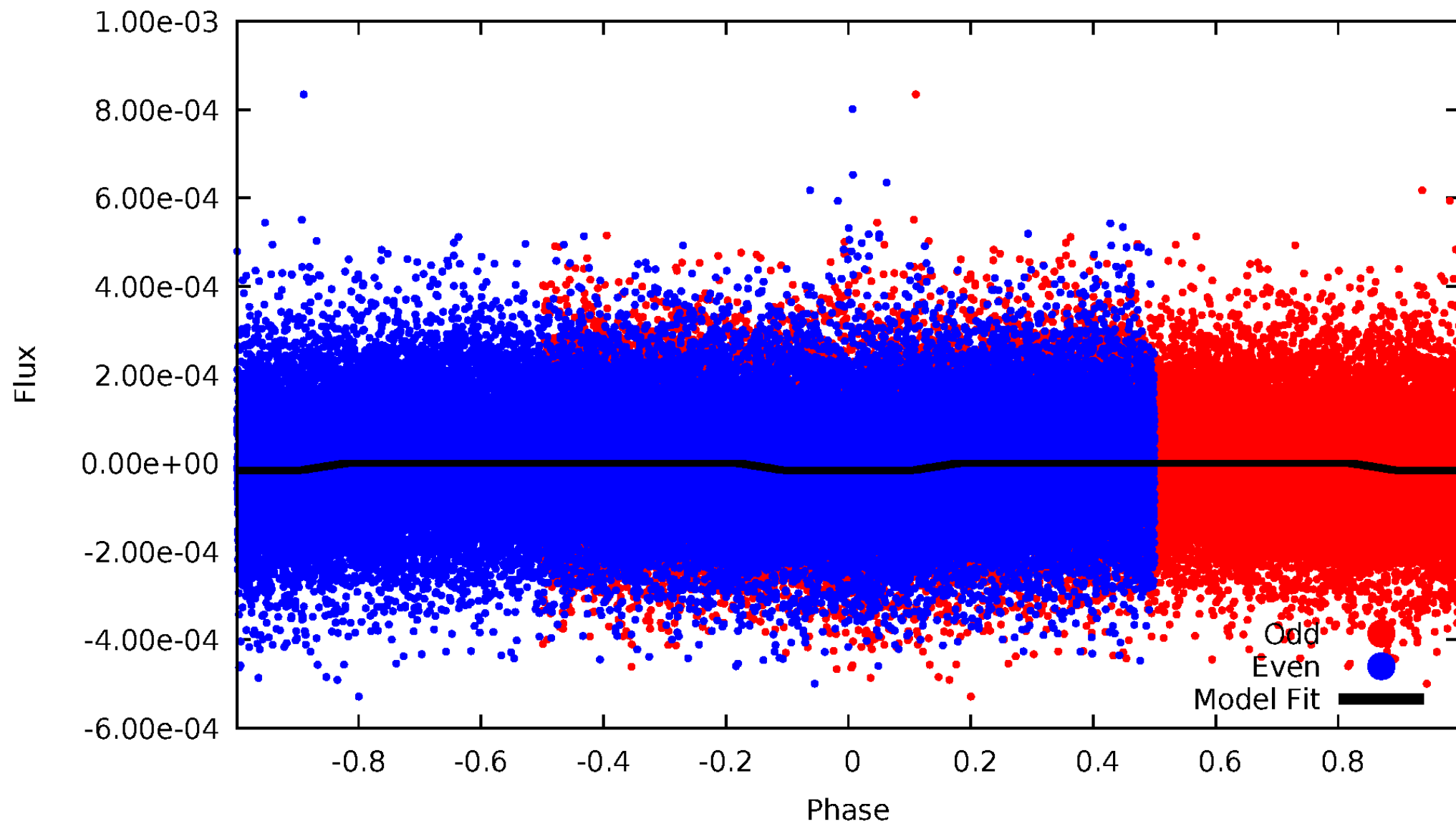
DV Odd/Even

TCE 006468848-01



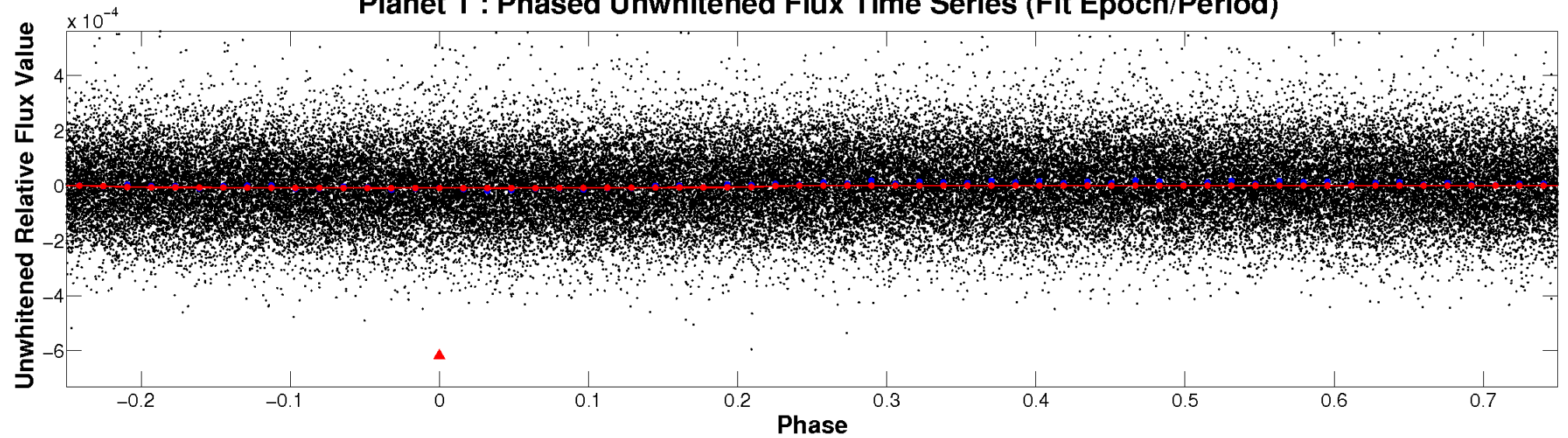
ALT Odd/Even

TCE 006468848-01

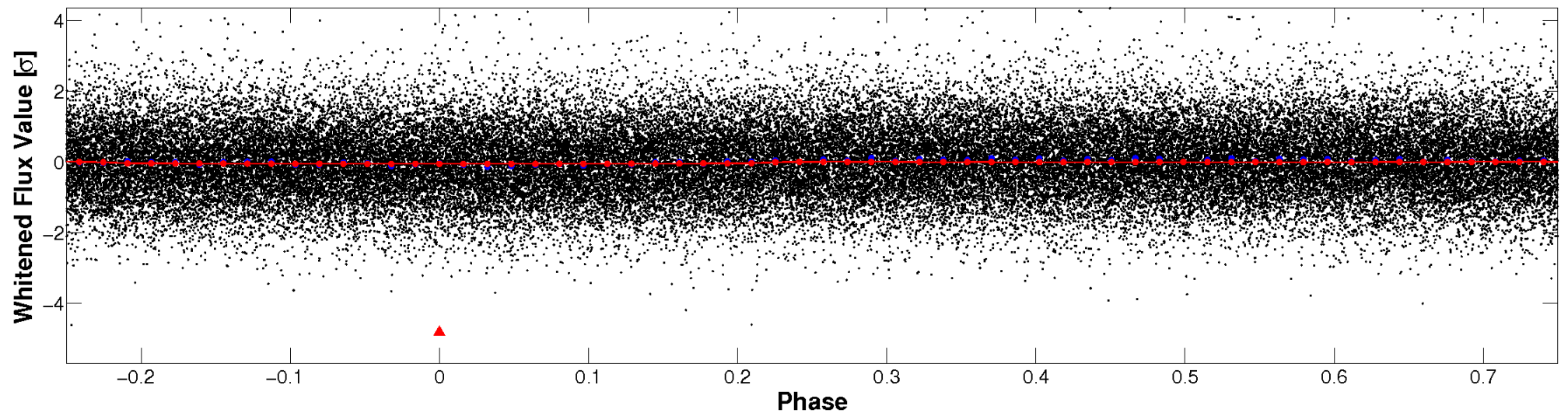


Non-Whitened Vs. Whitened Light Curve

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

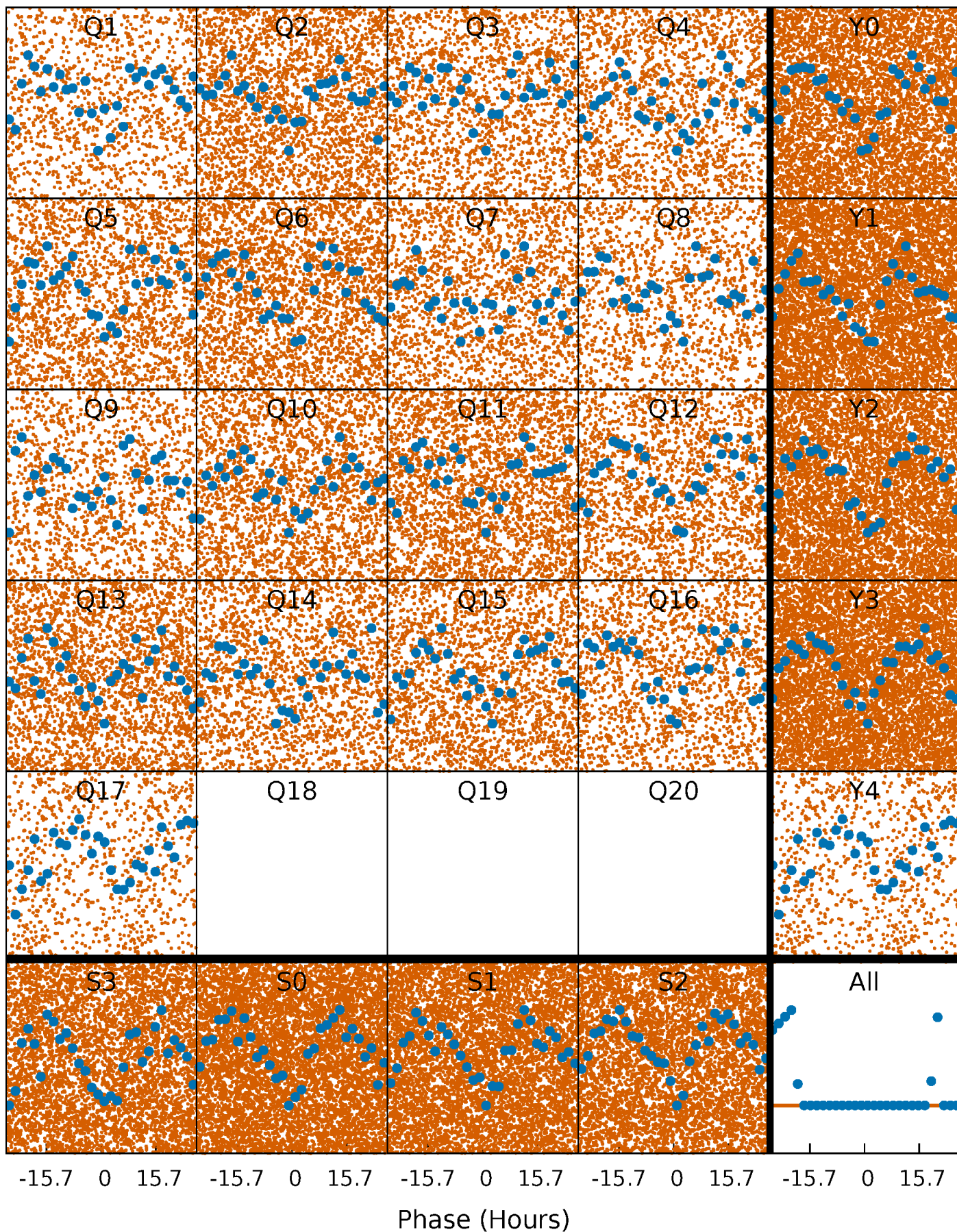


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



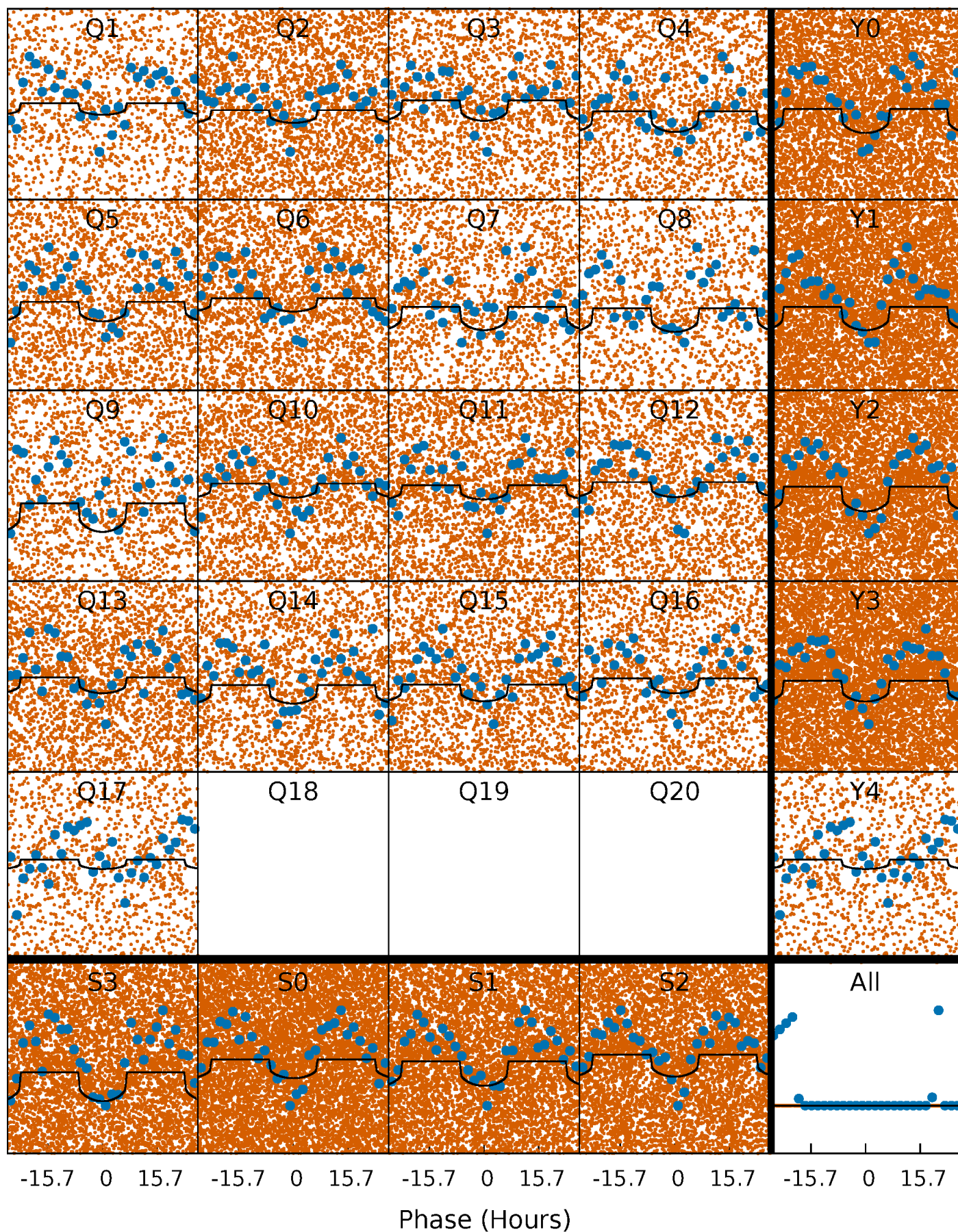
PDC Quarter-Phased Transit Curves

TCE 006468848-01 P= 1.269529 Days $T_0=131.848495$ (BKJD)



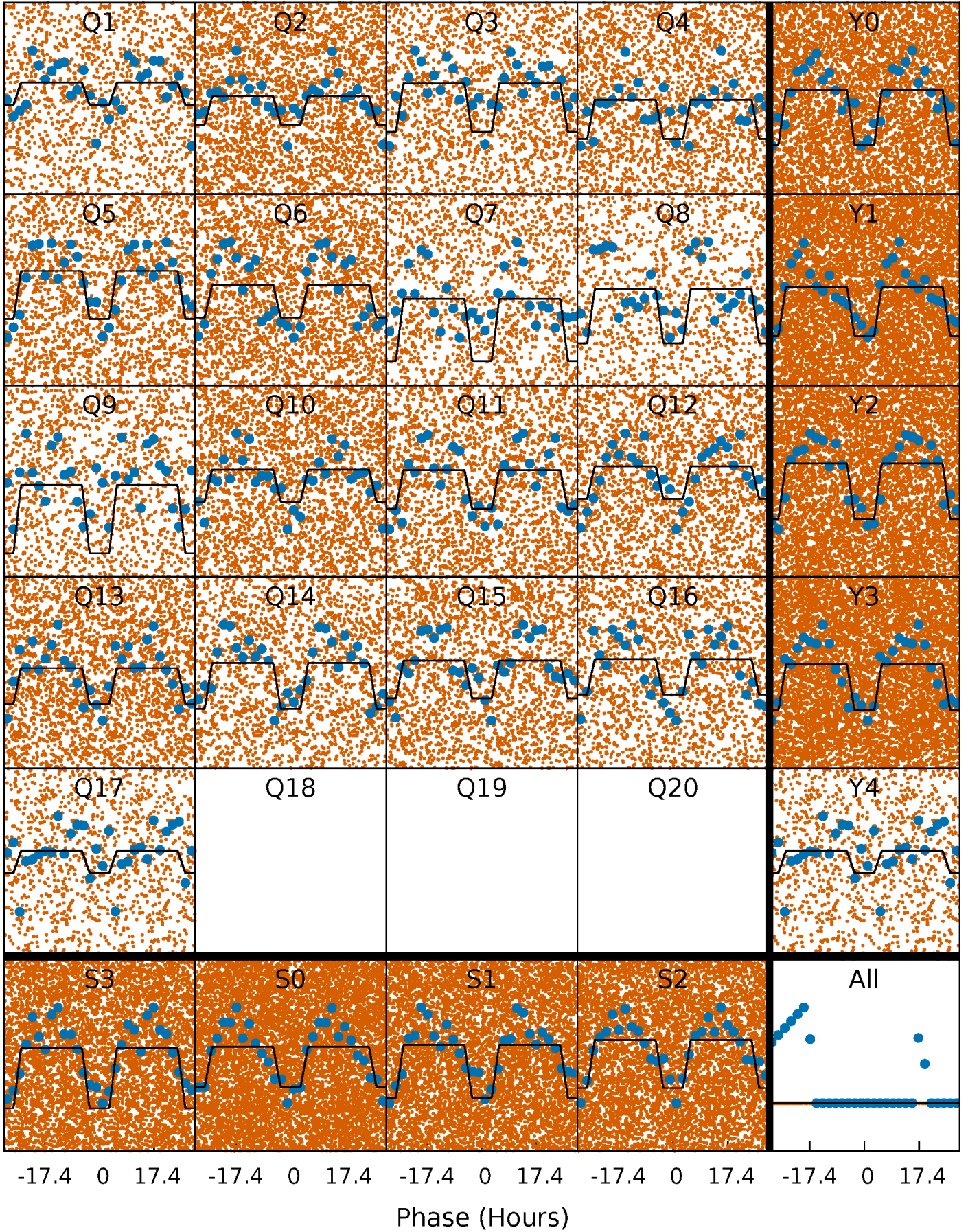
DV Quarter-Phased Transit Curves

TCE 006468848-01 P= 1.269529 Days $T_0=131.848495$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

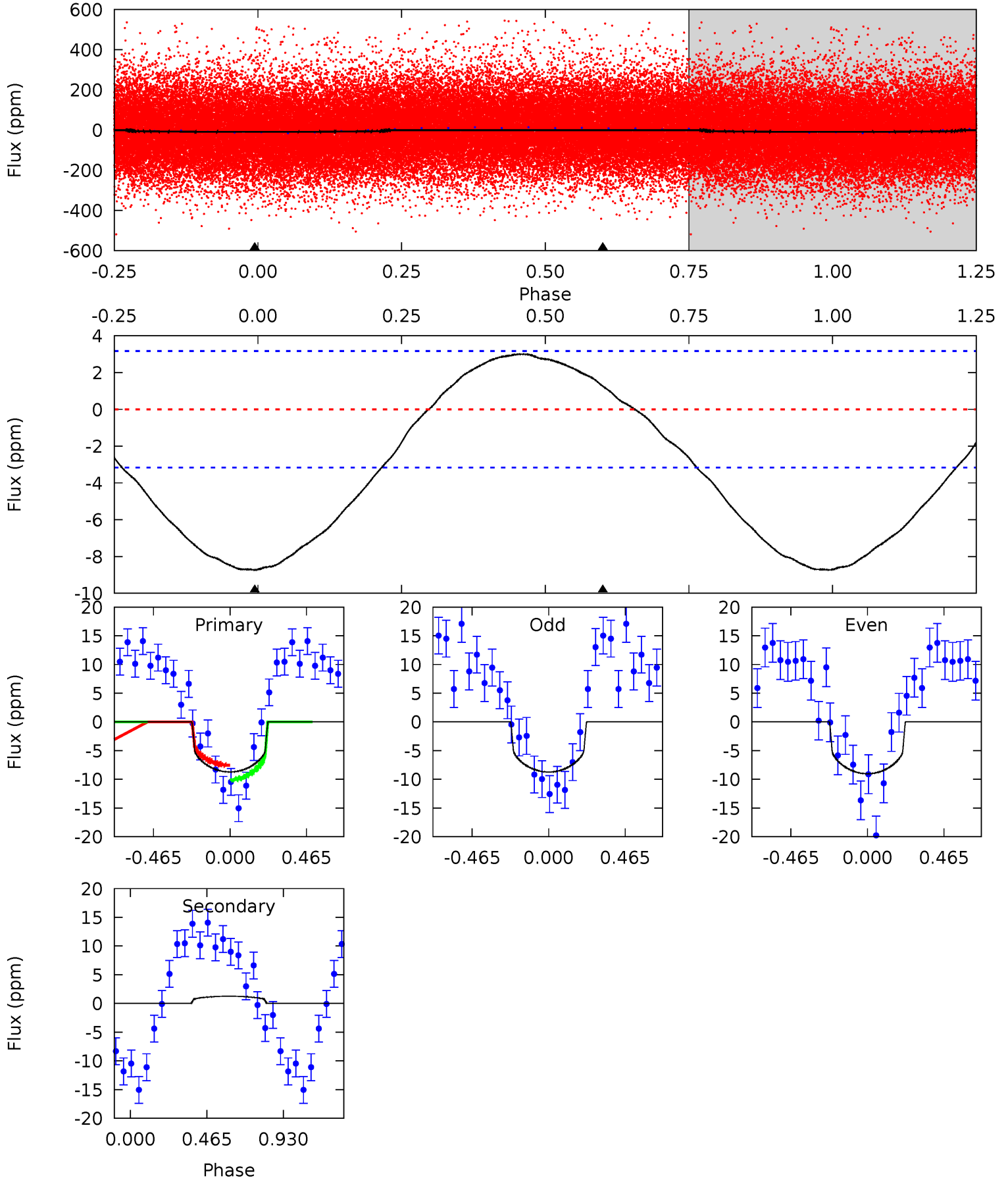
TCE 006468848-01 P= 1.269544 Days $T_0=131.849182$ (BKJD)



DV Model-Shift Uniqueness Test

006468848-01, P = 1.269529 Days, E = 130.578966 Days

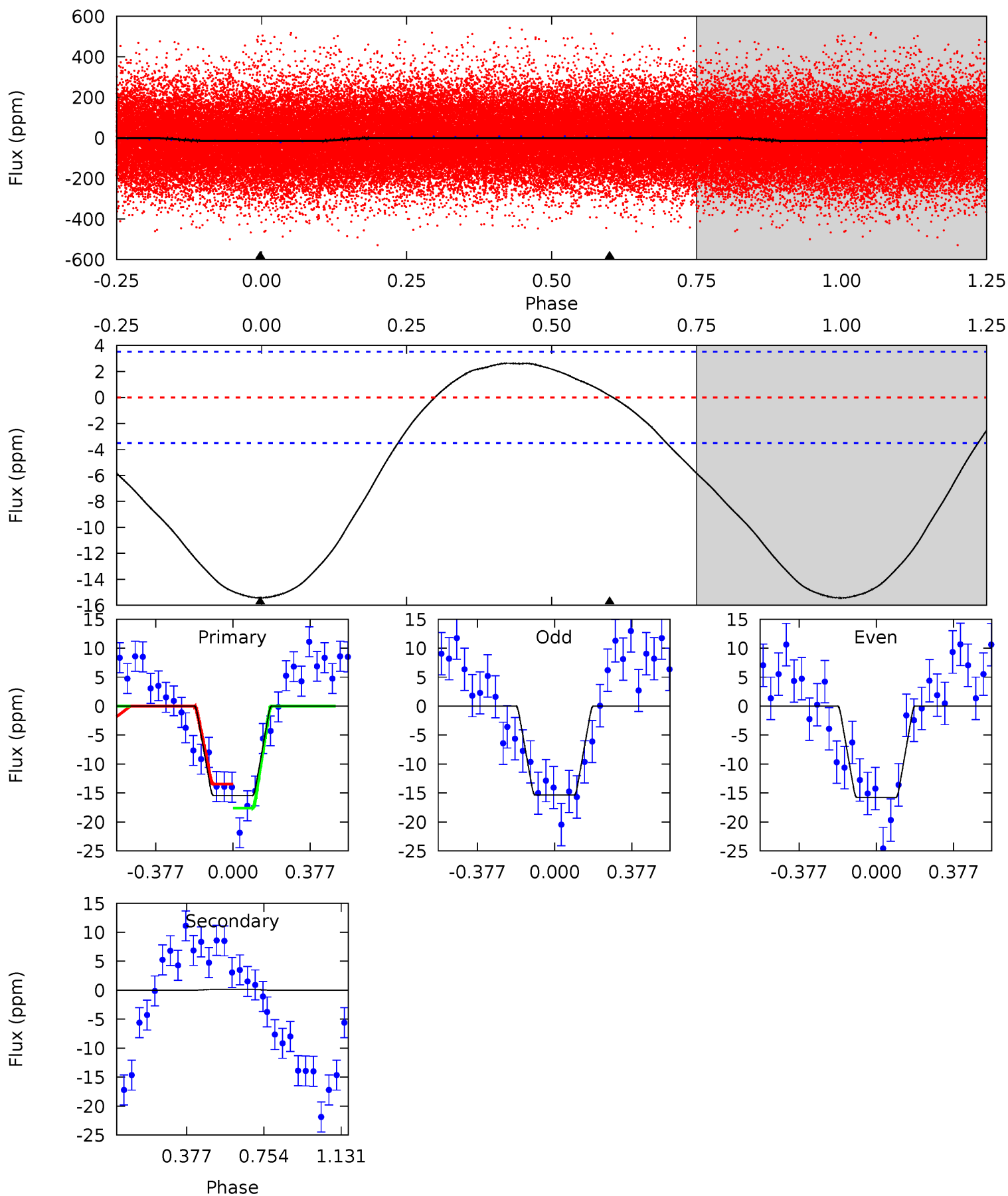
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	-1.68	0	0	4.23	0.73	1.35	11.7	11.7	-1.68	-1.68	0.19	0.99	0.26	1.69



Alt Model-Shift Uniqueness Test

006468848-01, P = 1.269544 Days, E = 130.579638 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.8	-0.17	0	0	4.28	0.88	1.54	18.8	18.8	-0.17	-0.17	0.24	0.97	0.15	2.50



Stellar Parameters For KIC 006468848

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8806^{+242}_{-381}	$3.811^{+0.397}_{-0.132}$	$-0.300^{+0.500}_{-0.300}$	$2.890^{+0.804}_{-1.206}$	$1.971^{+0.422}_{-0.422}$	$0.115^{+0.387}_{-0.050}$
	+3%/-4%	+10%/-3%	+167%/-100%	+28%/-42%	+21%/-21%	+336%/-44%
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 006468848-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	1 ± 1	$0.85^{+0.68}_{-0.52}$	5268^{+445}_{-572}	-5554^{+845}_{-2812}	$-0.696^{+0.537}_{-3.981}$
Alt.	0 ± 1	$1.22^{+0.74}_{-0.60}$	5255^{+440}_{-589}	-4413^{+1330}_{-709}	$-0.023^{+0.269}_{-0.360}$

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

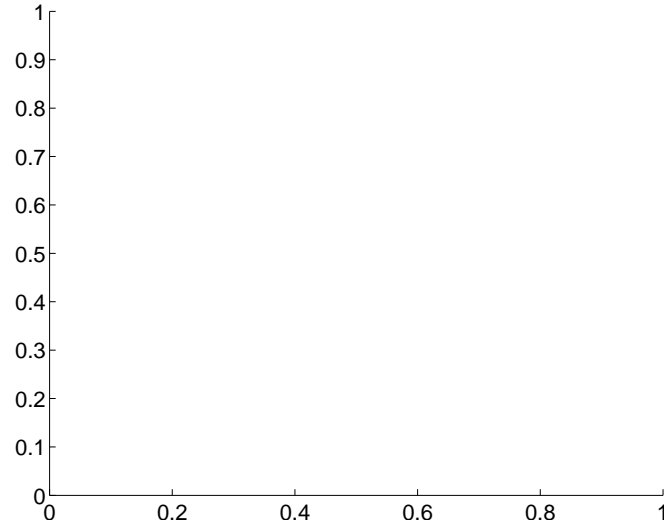
Supplemental centroid analysis for 006468848-01. Kepler magnitude: 13.12. Transit SNR 7.66

There are 0 quarters with good PRF difference image offsets

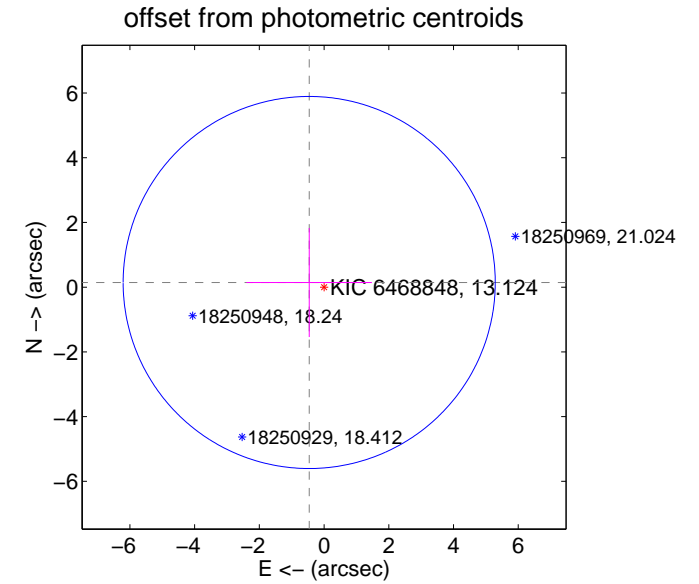
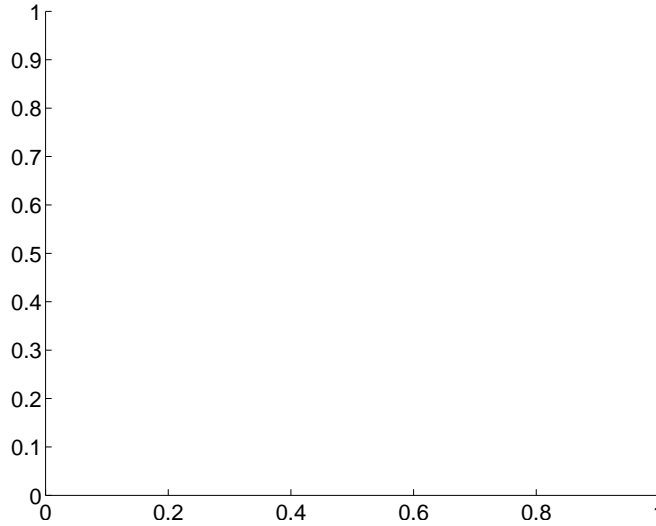
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	0.48 ± 1.92	0.25	0.46 ± 1.94	0.14 ± 1.68

There is no PRF-fit offset from OOT-fit

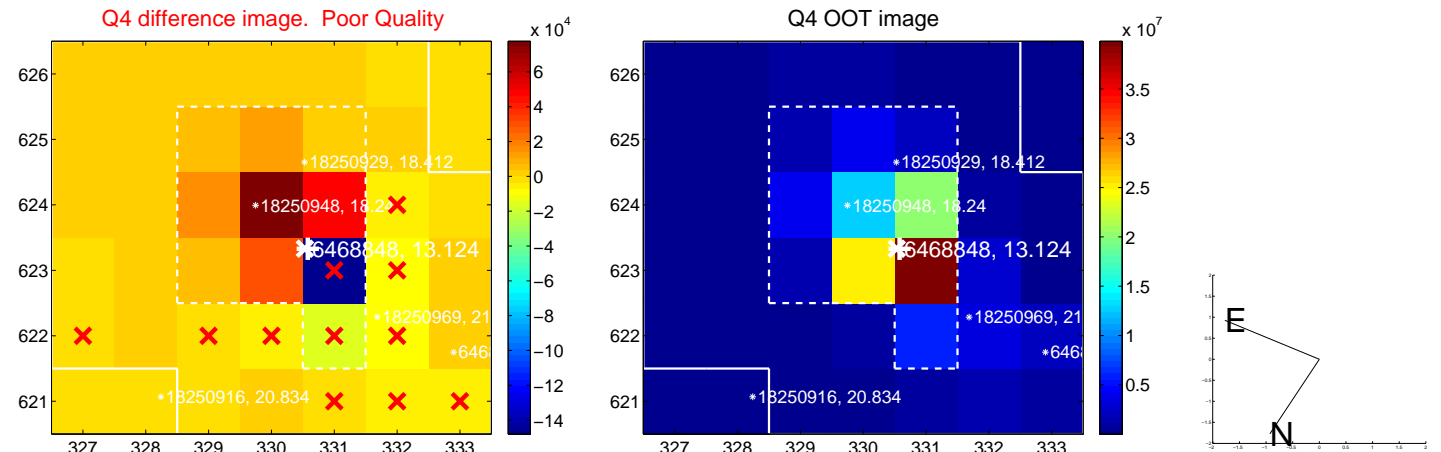
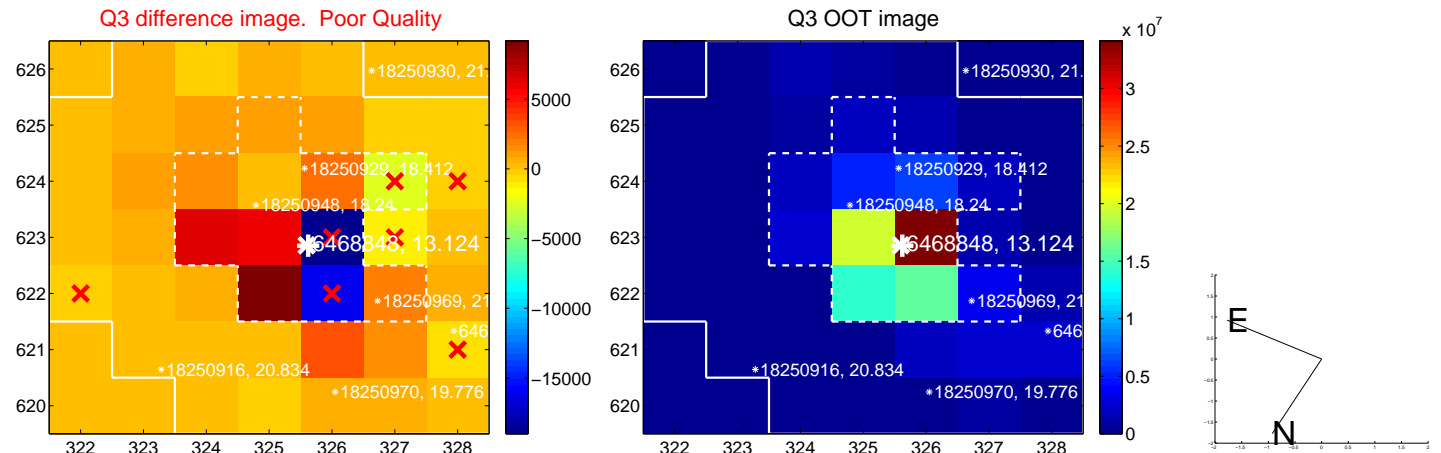
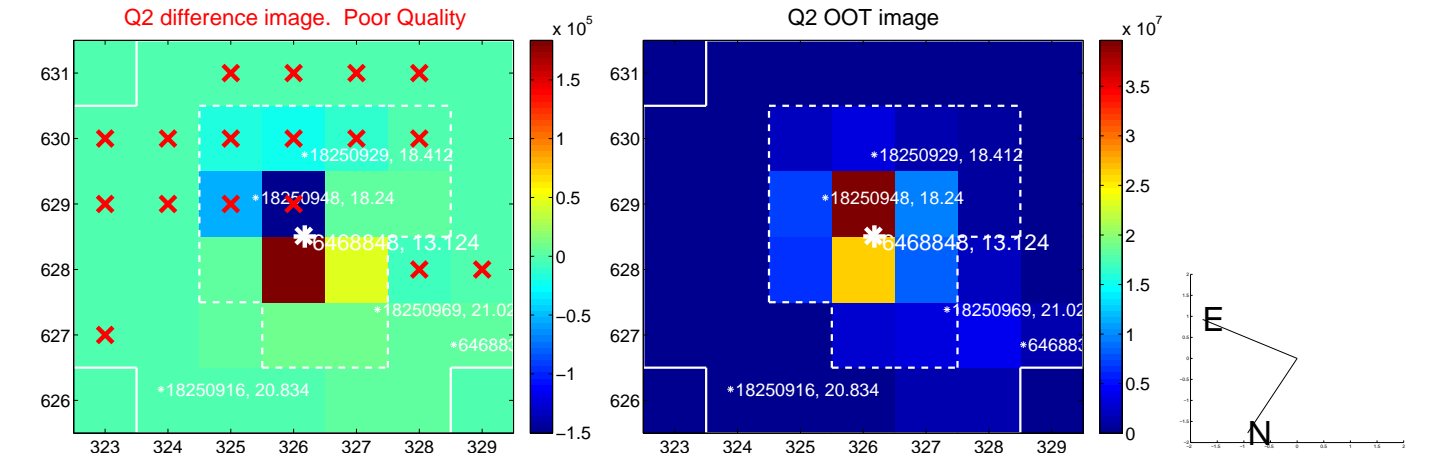
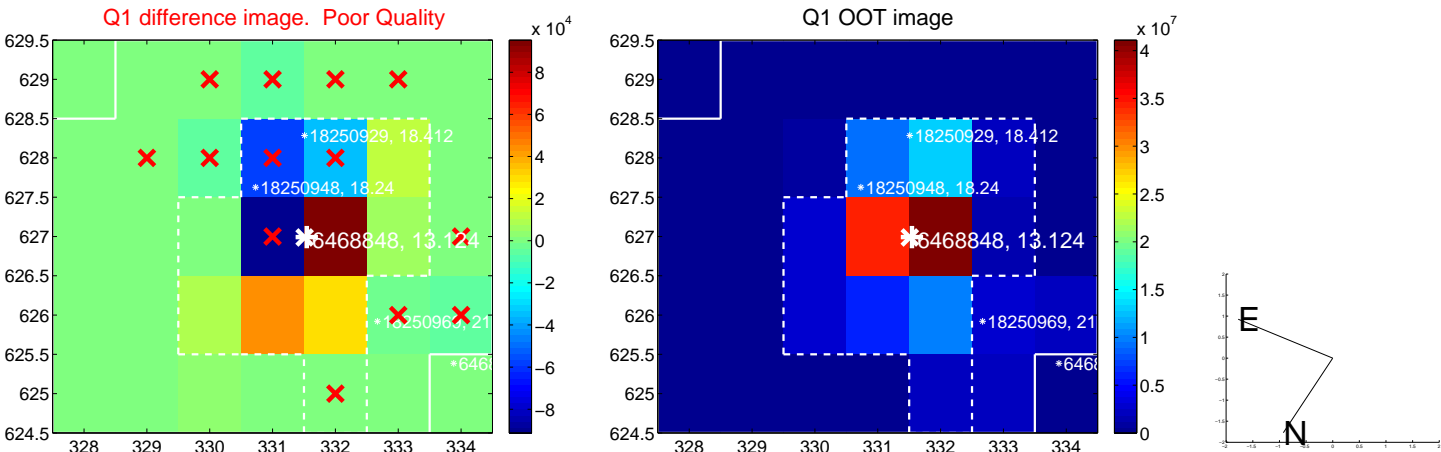


There is no PRF-fit offset from KIC

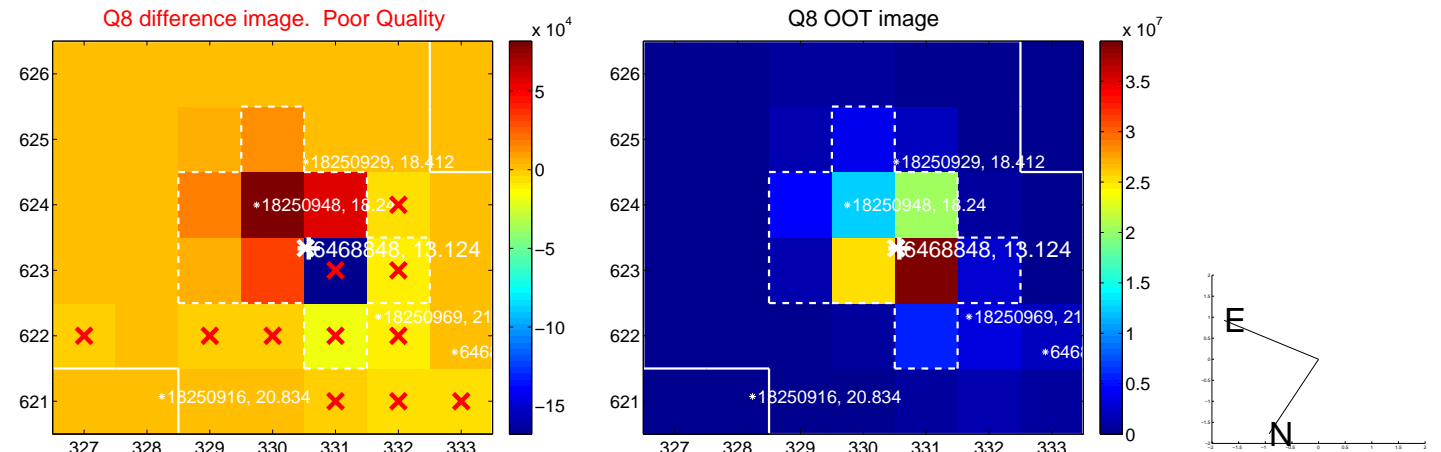
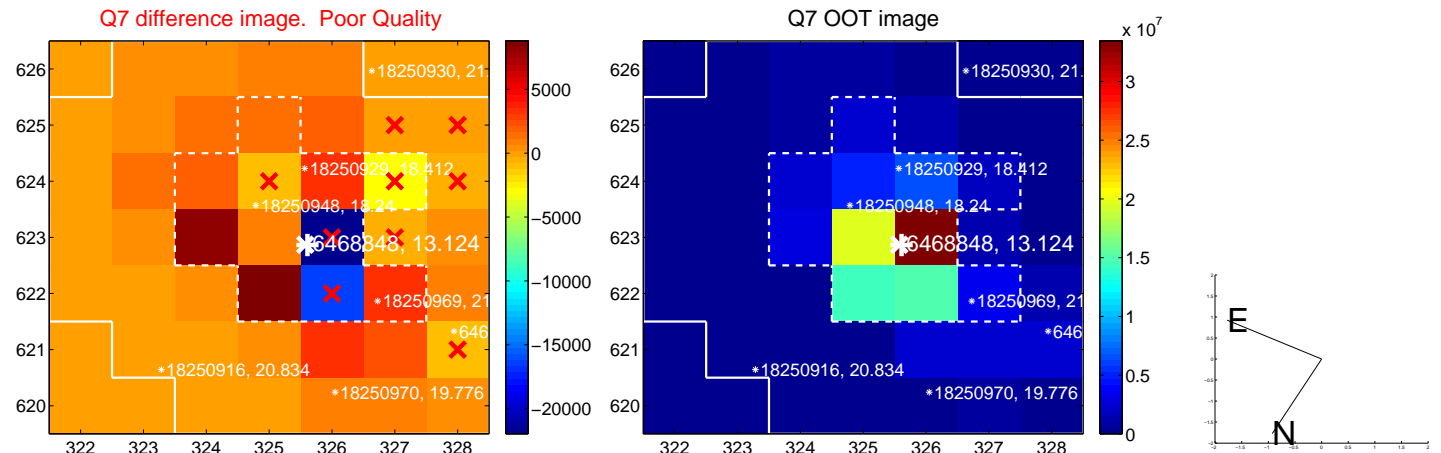
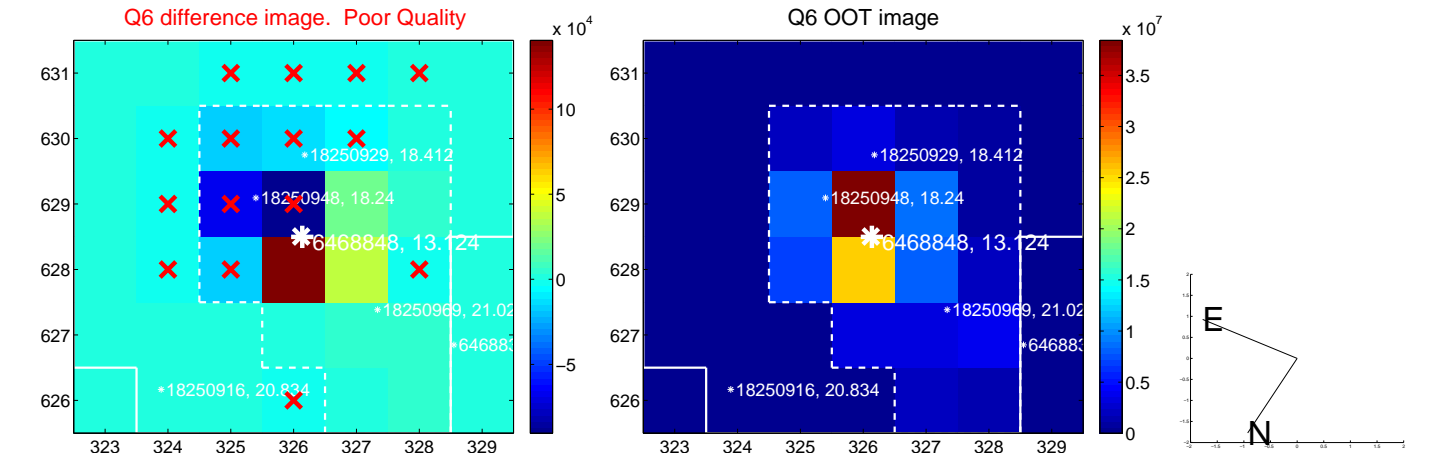
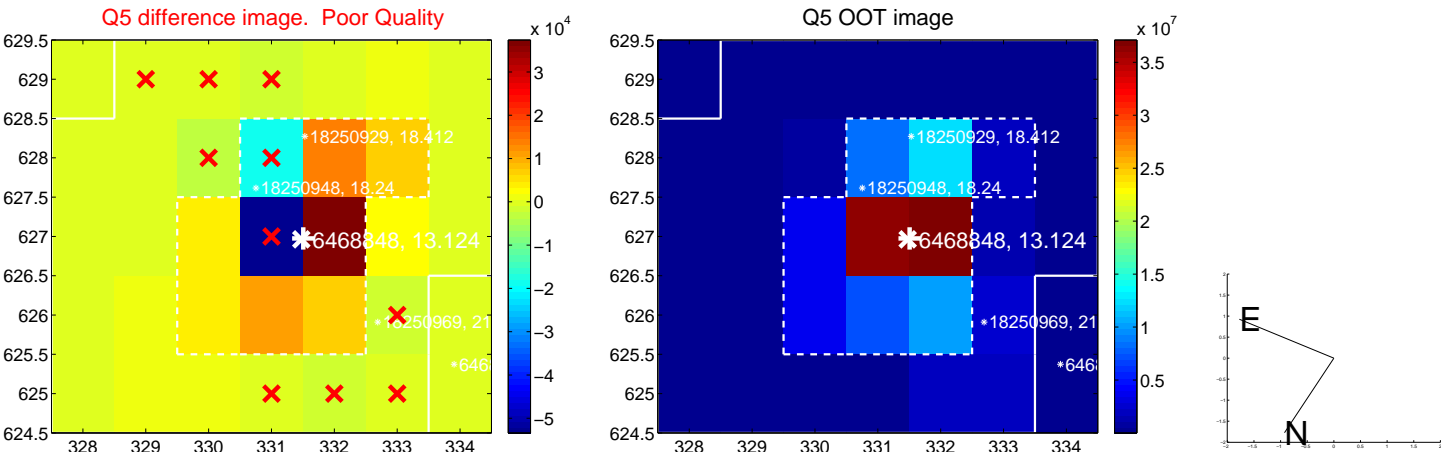


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

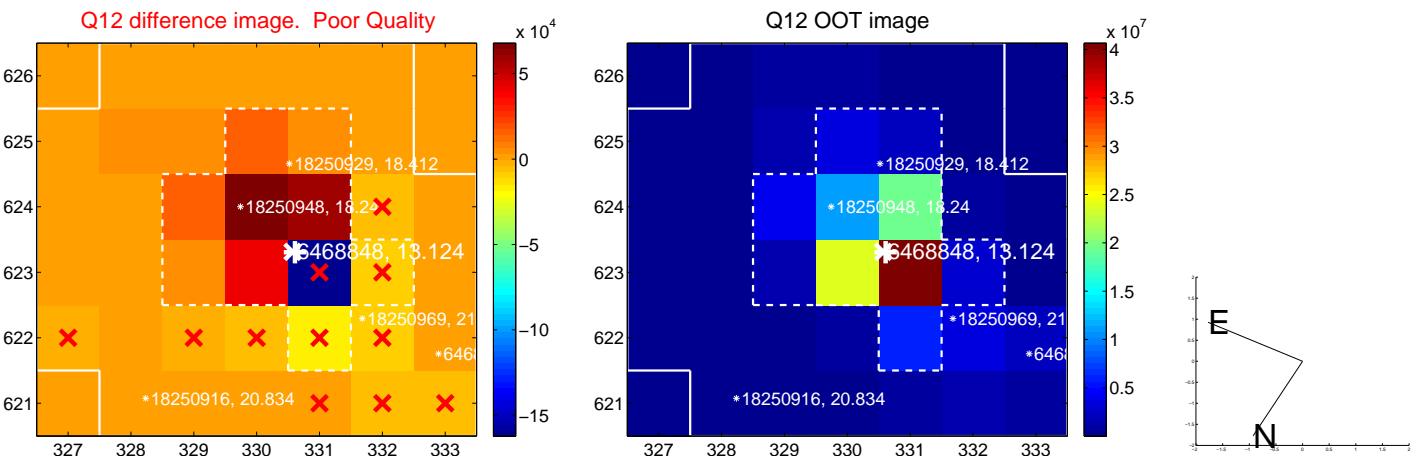
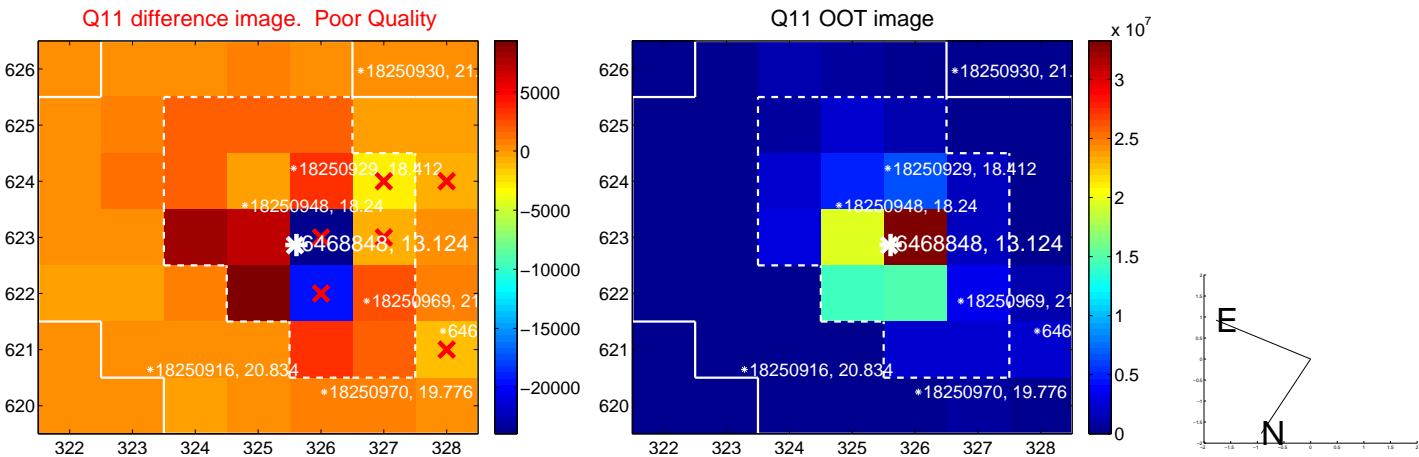
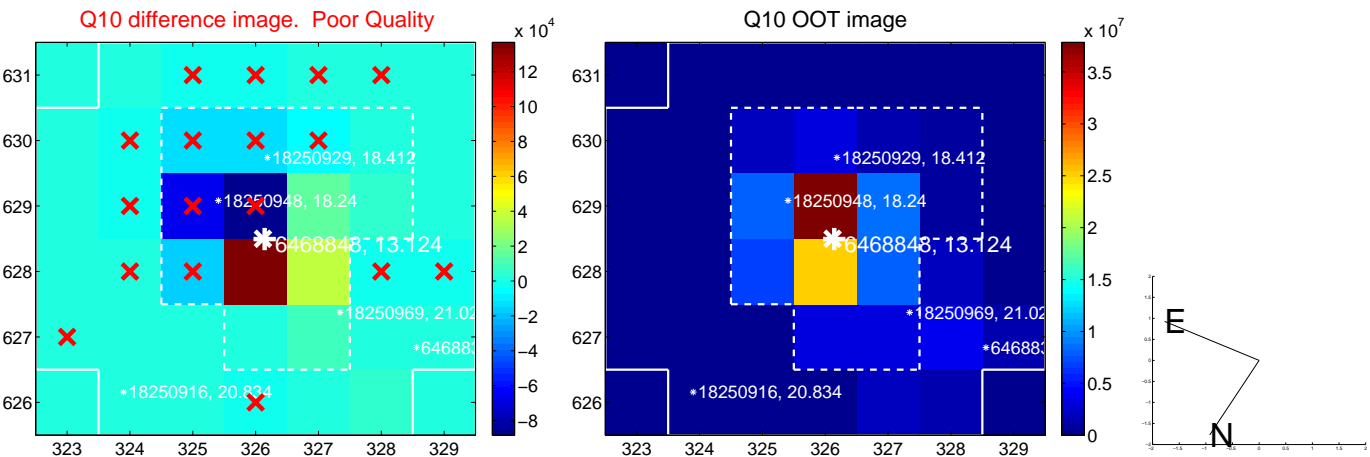
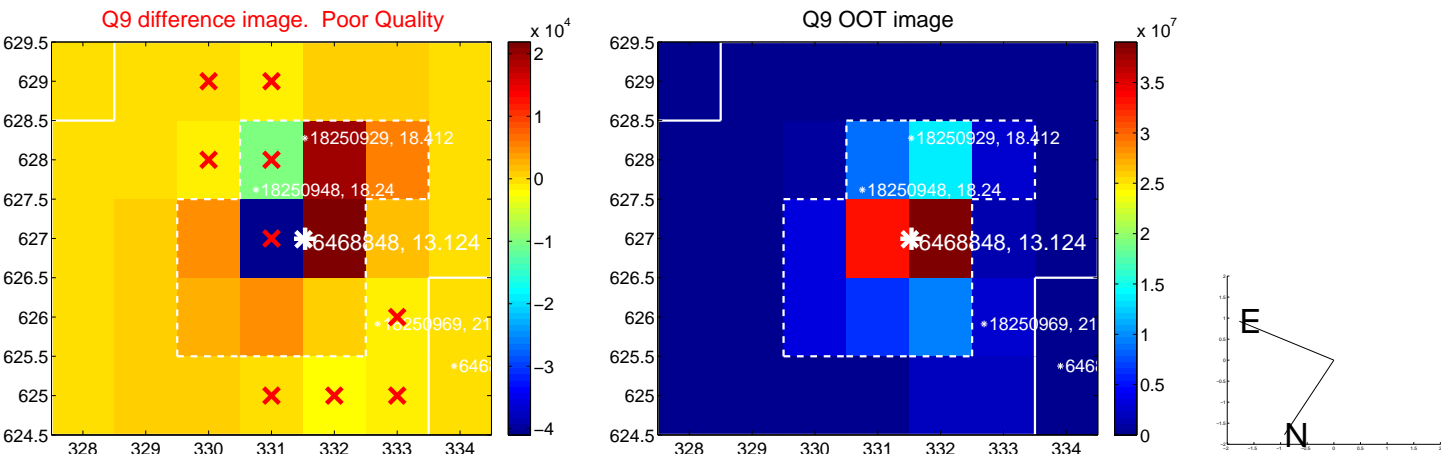
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



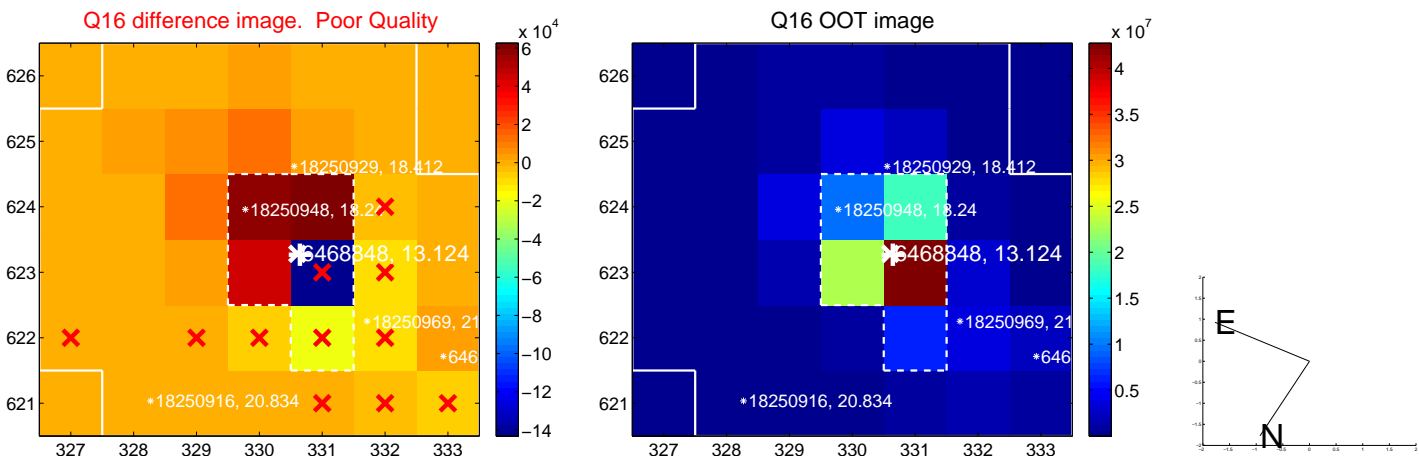
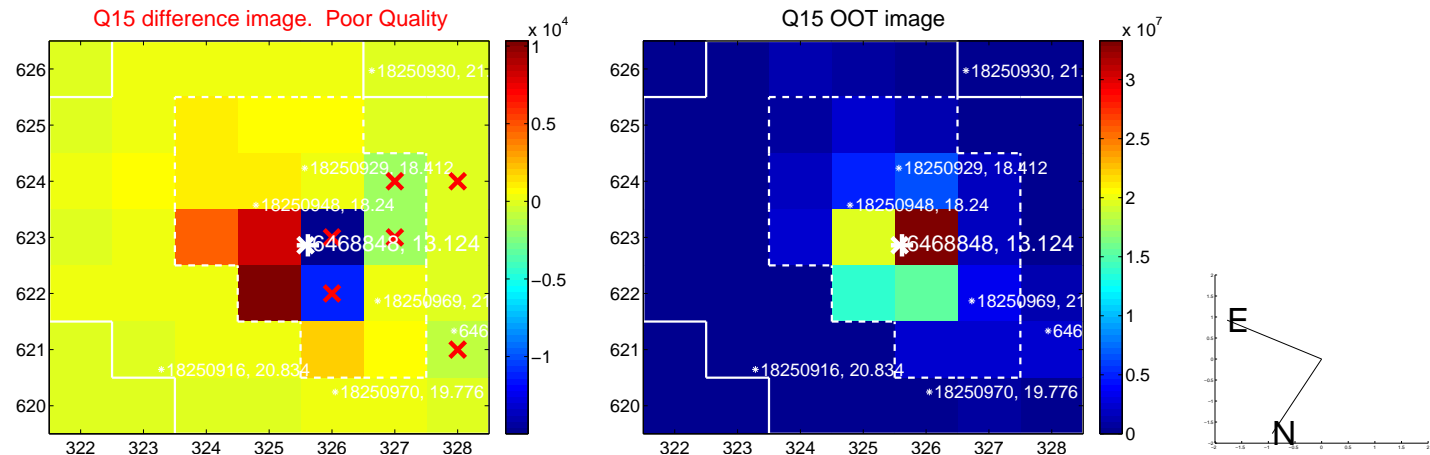
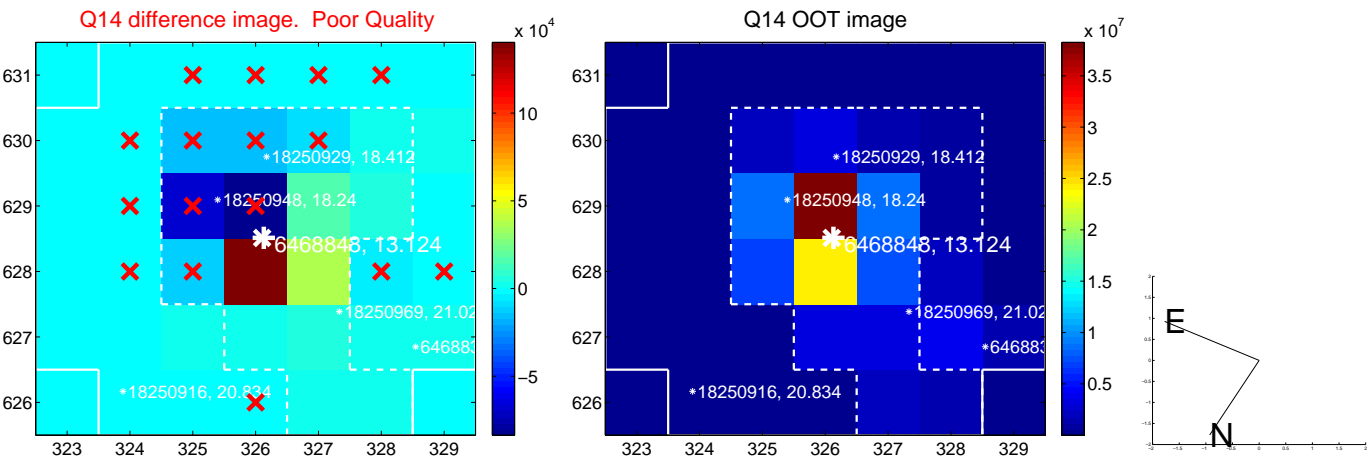
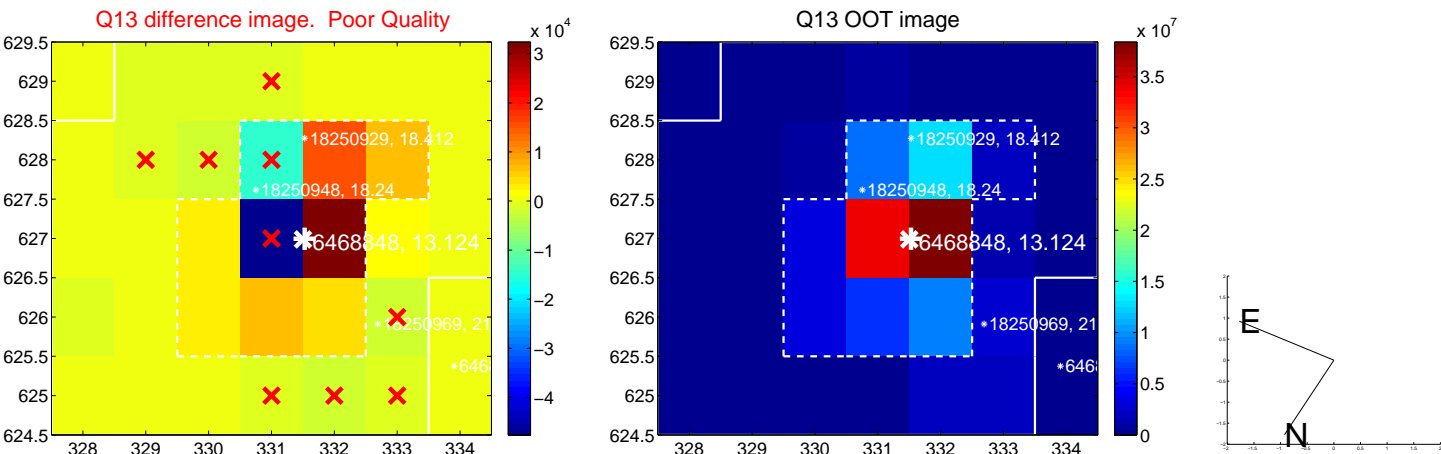
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



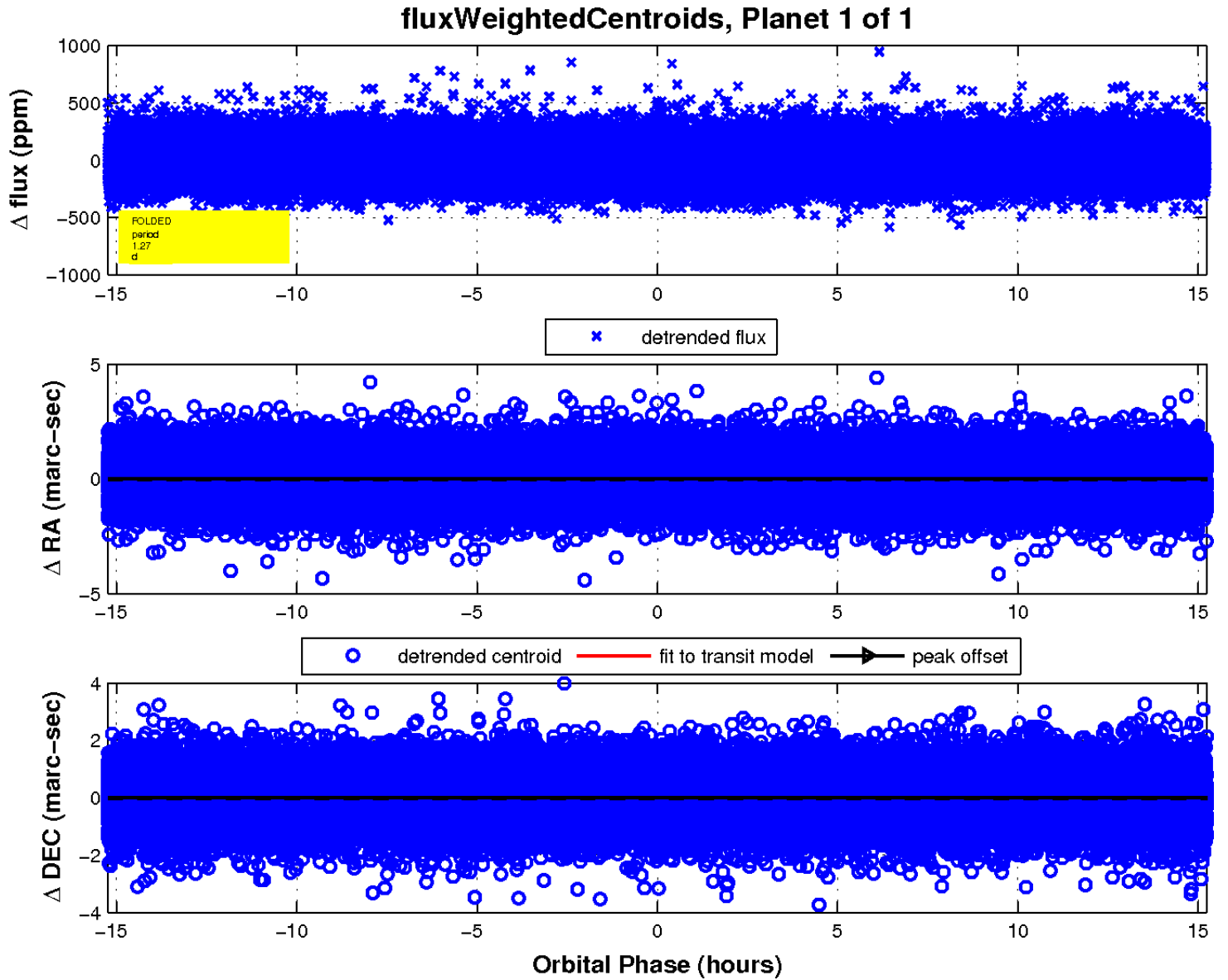
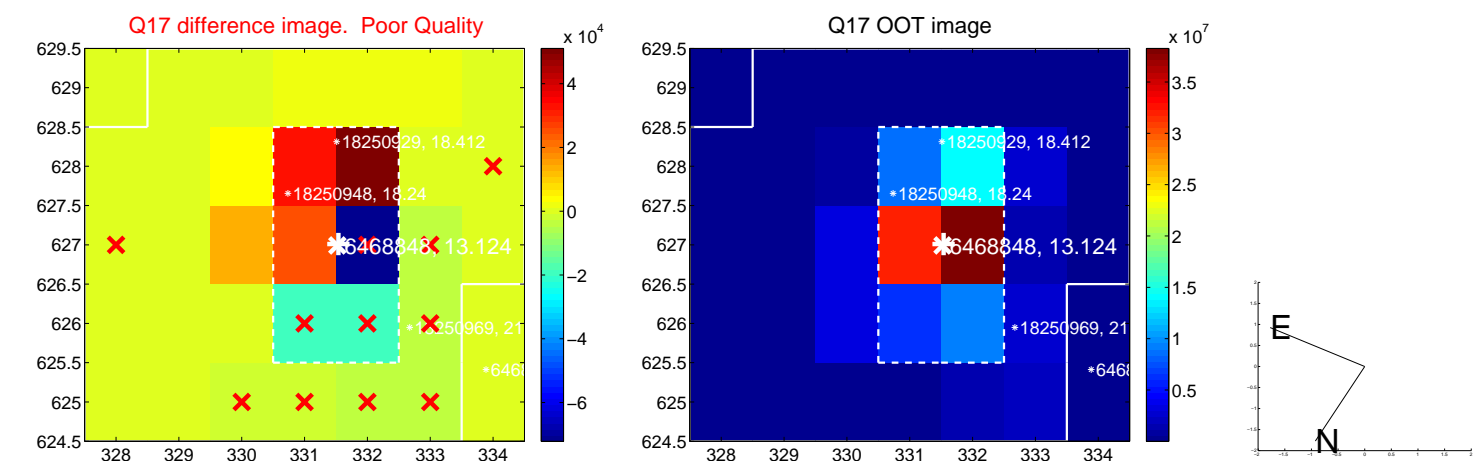
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

