

KIC 005216092

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})
005216092-01	OBS	No	0.663067	131.996498	0.0	5.253	8.0	0.0	3.71	6712	0.03	78252.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005216092-01	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.

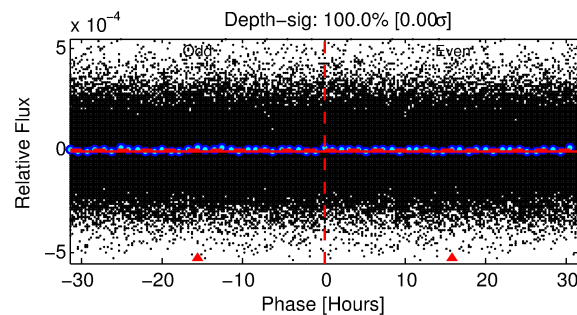
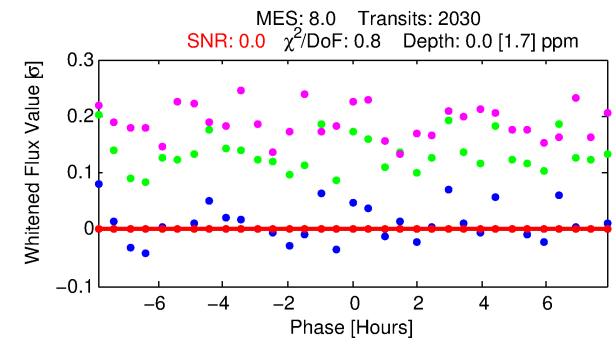
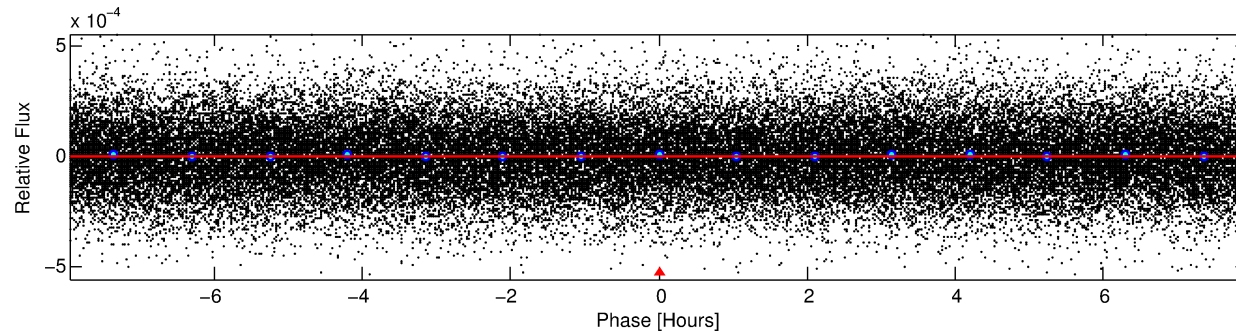
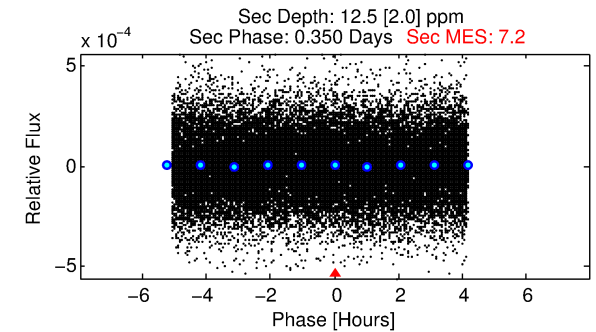
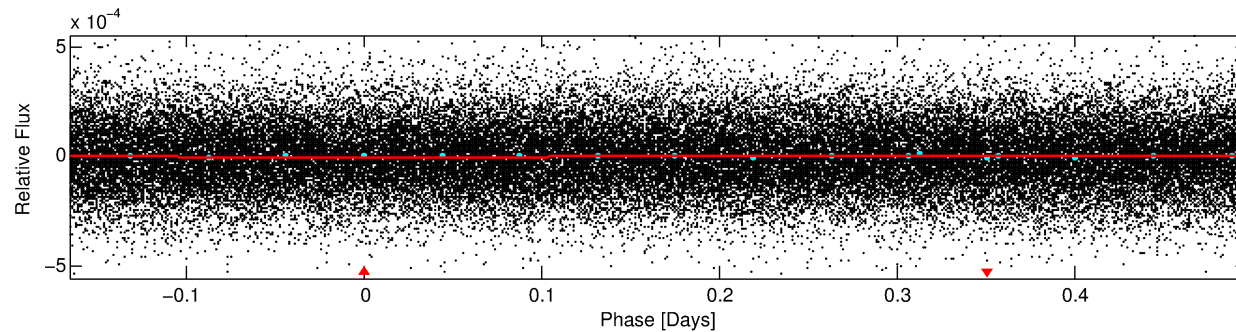
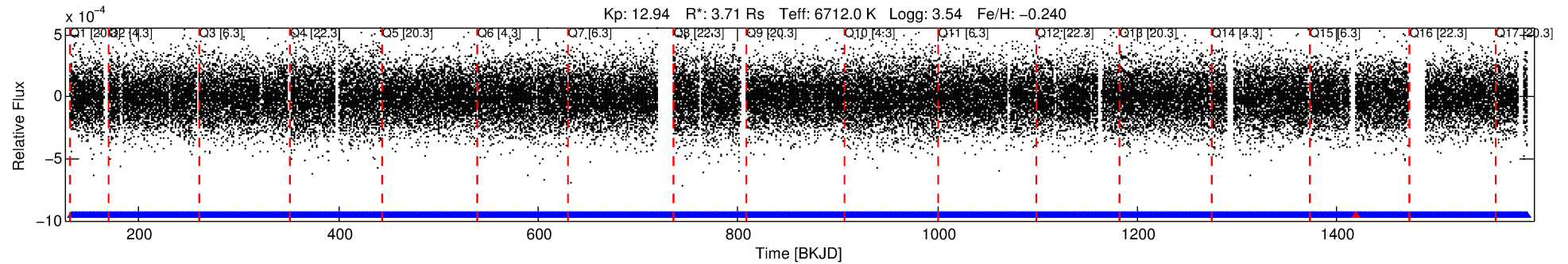
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005216092-01

No Significant Match Found

DV One-Page Summary

KIC: 5216092 Candidate: 1 of 1 Period: 0.663 d



DV Fit Results:

Period = 0.66307 [0.02201] d
Epoch = 131.9965 [8.3788] BKJD
Rp/R* = 0.0001 [0.0093]
a/R* = 1.12 [27.06]
b = 0.51 [178.07]
Seff = 78252.02 [45011.91]
Teff = 4265 [613] K
Rp = 0.03 [3.76] Re
a = 0.0179 [0.0063] AU
Ag = 1861.03 [407247.12] [0.00σ]
Teffp = 43309 [2369547] K [0.02σ]

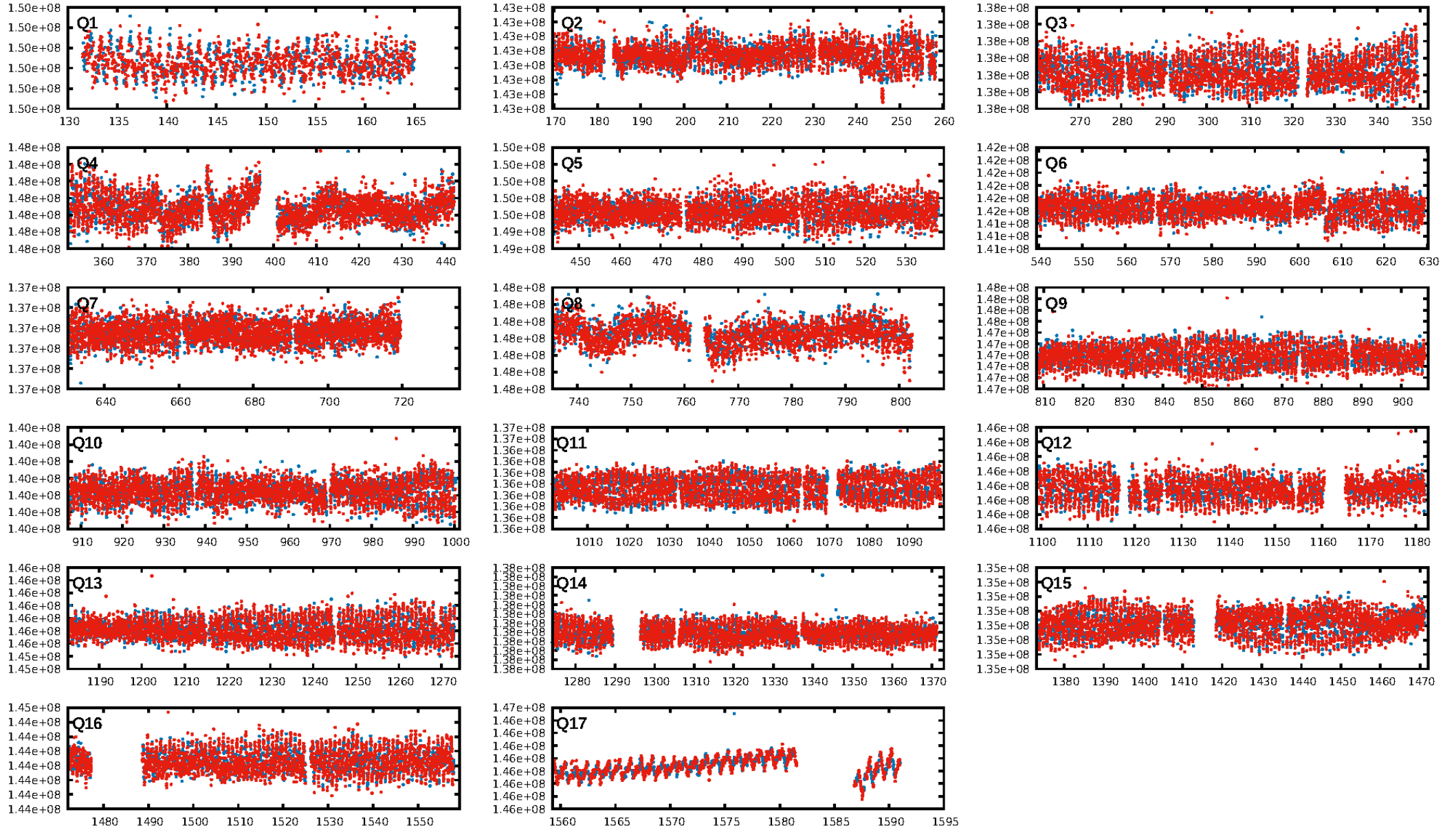
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1938/1939]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
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]

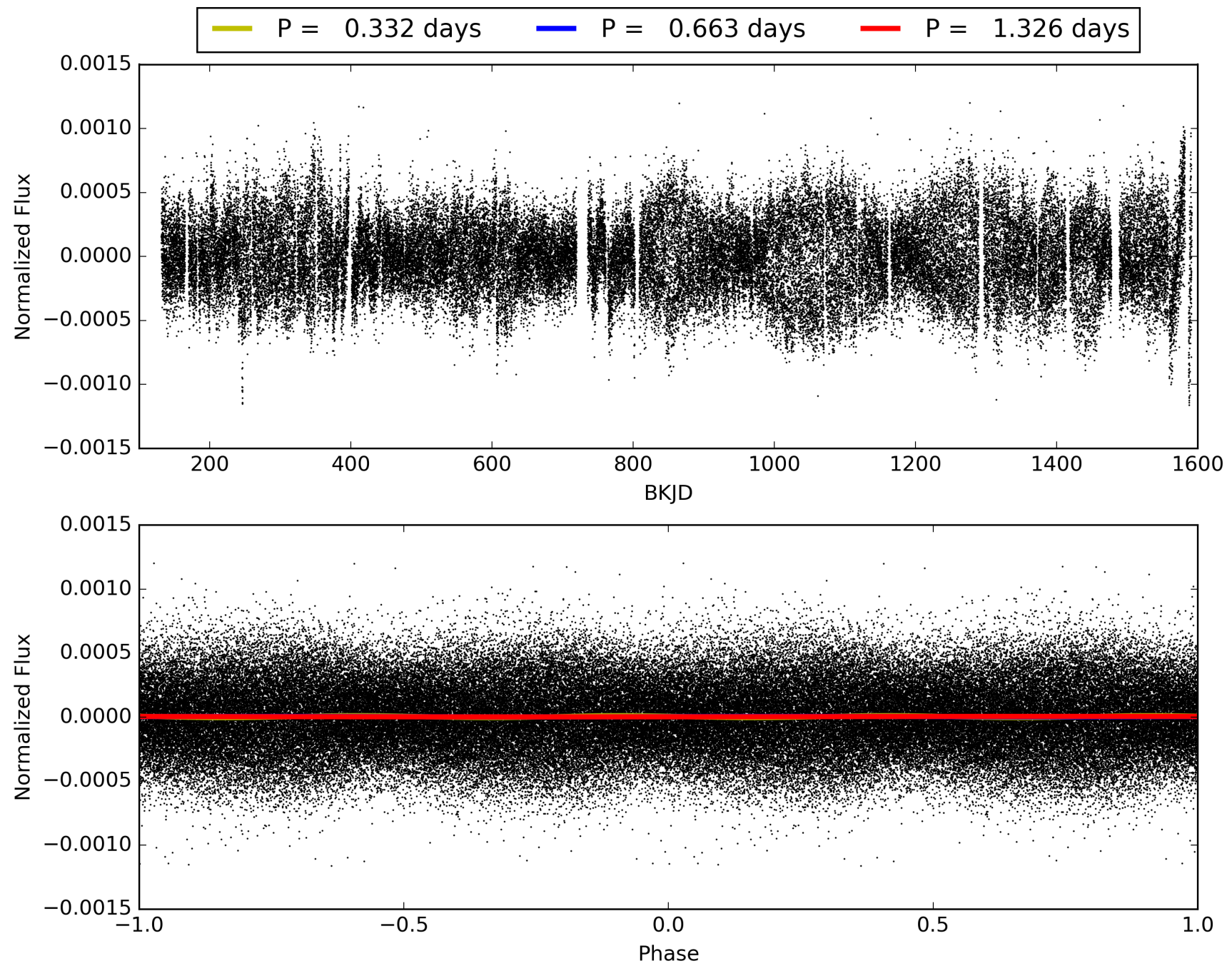
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 09:07:17 Z

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

TCE 005216092-01, PDC Light Curves

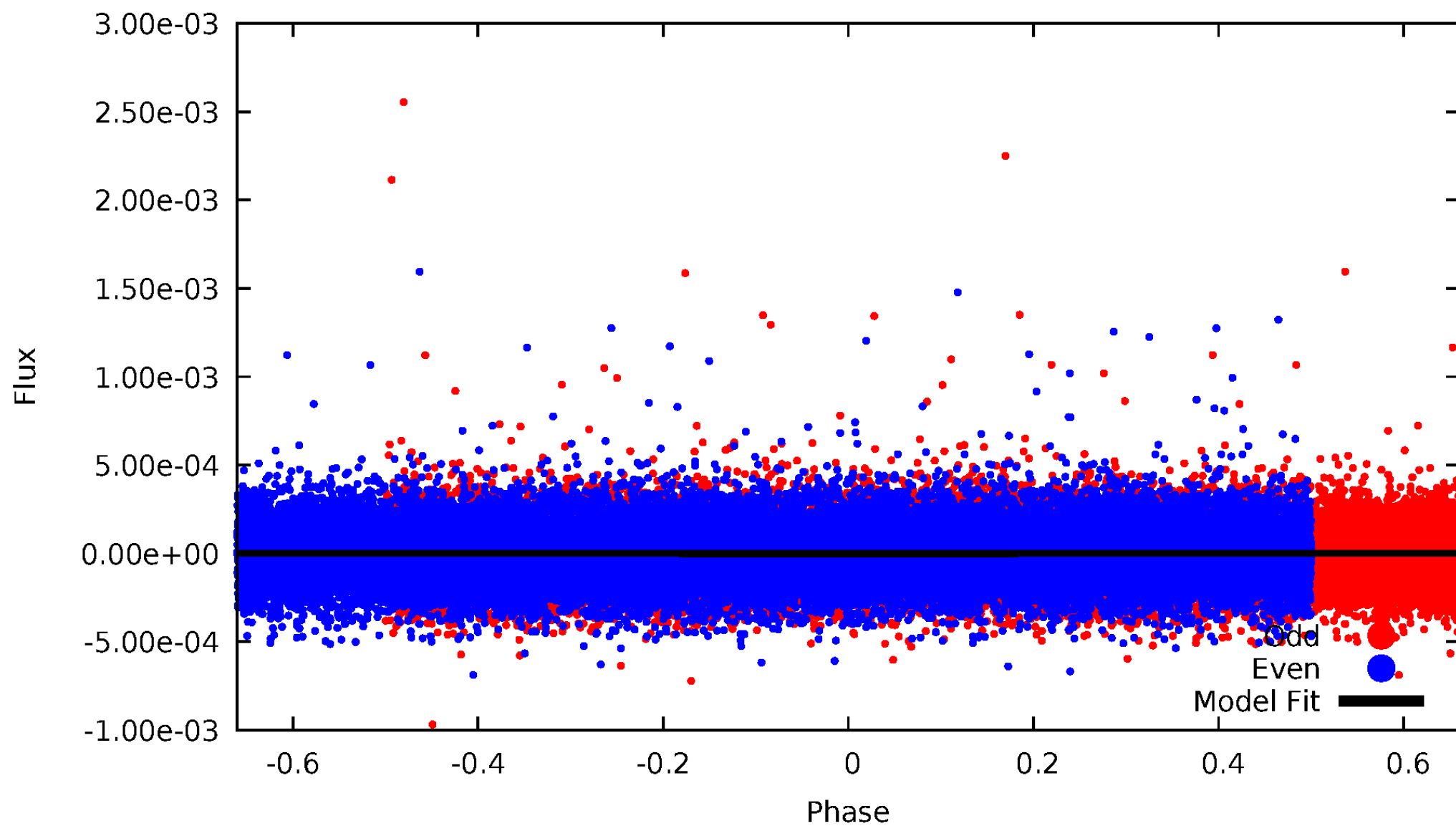


TCE 005216092-01



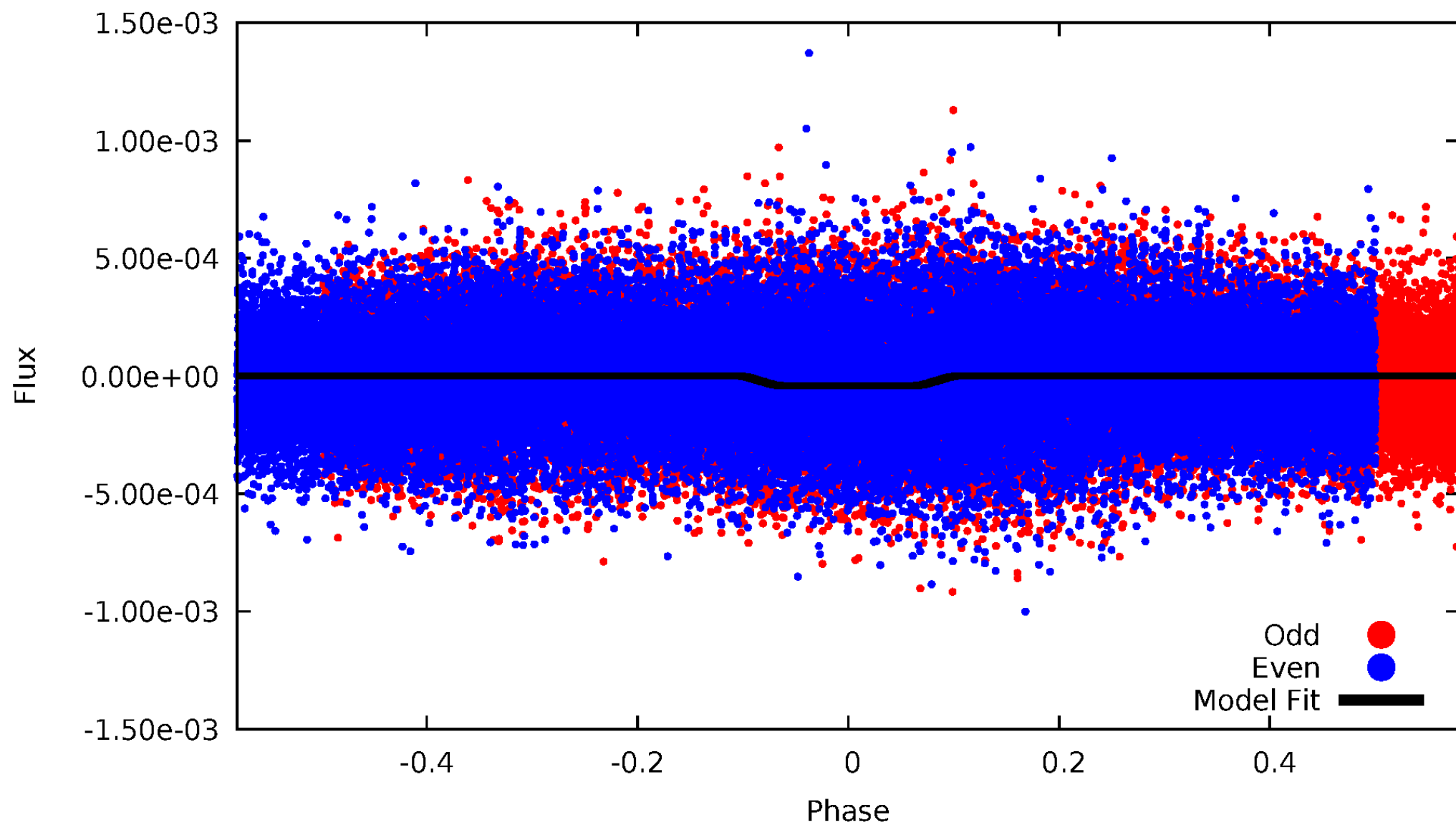
DV Odd/Even

TCE 005216092-01



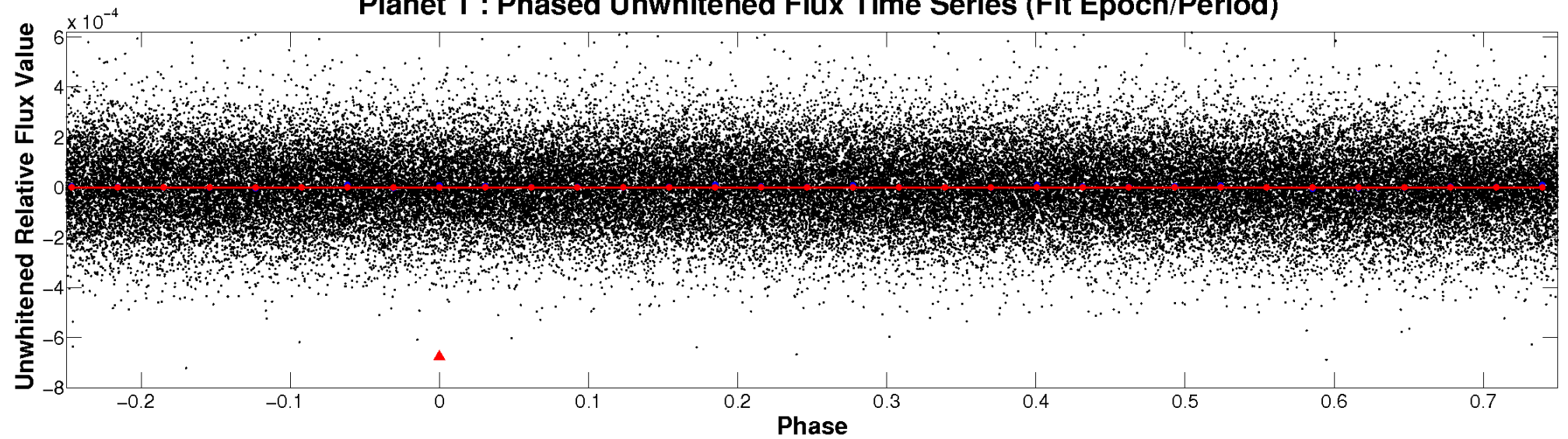
ALT Odd/Even

TCE 005216092-01

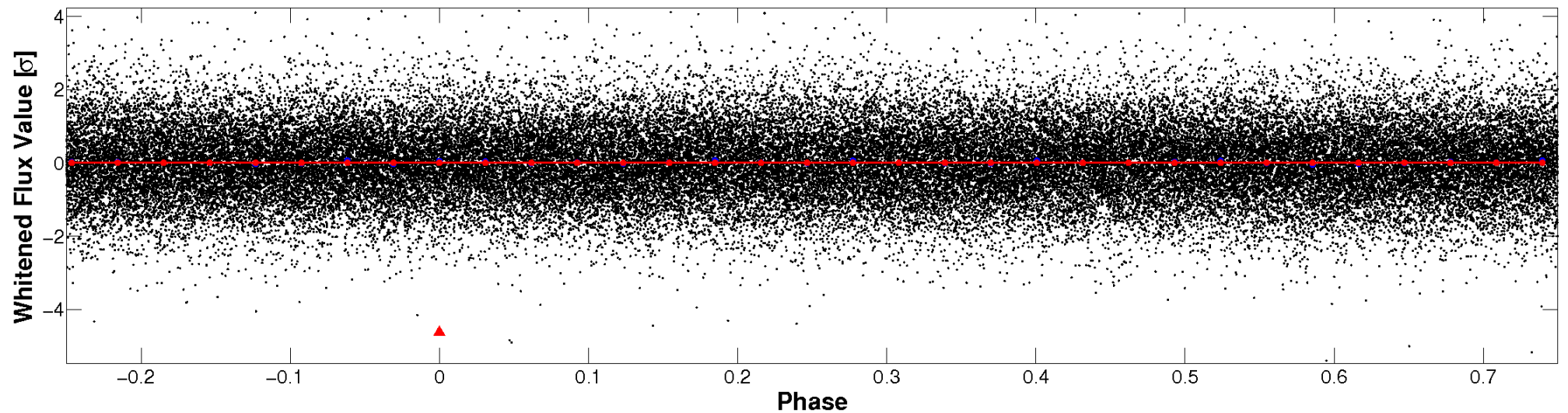


Non-Whitened Vs. Whitened Light Curve

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

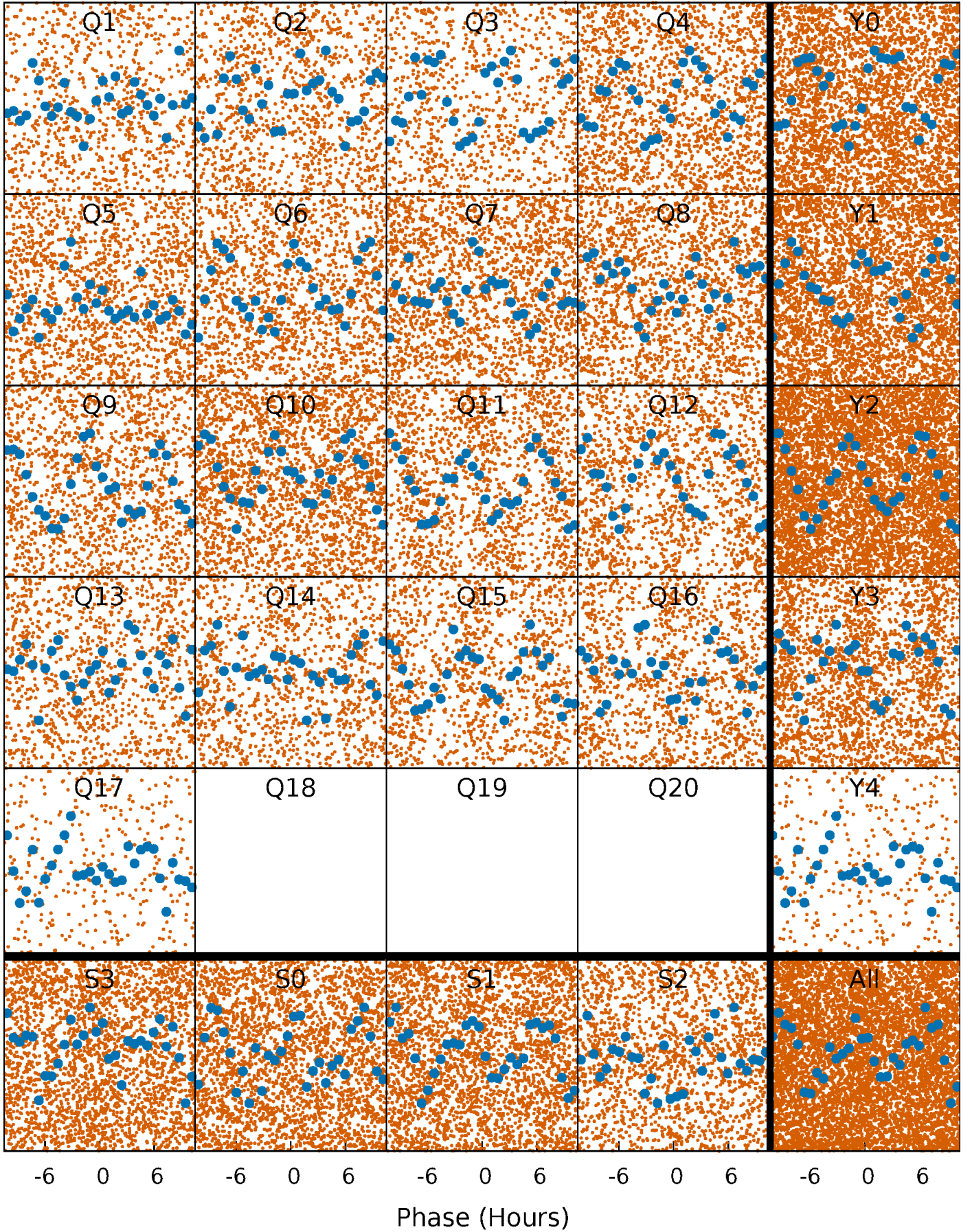


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



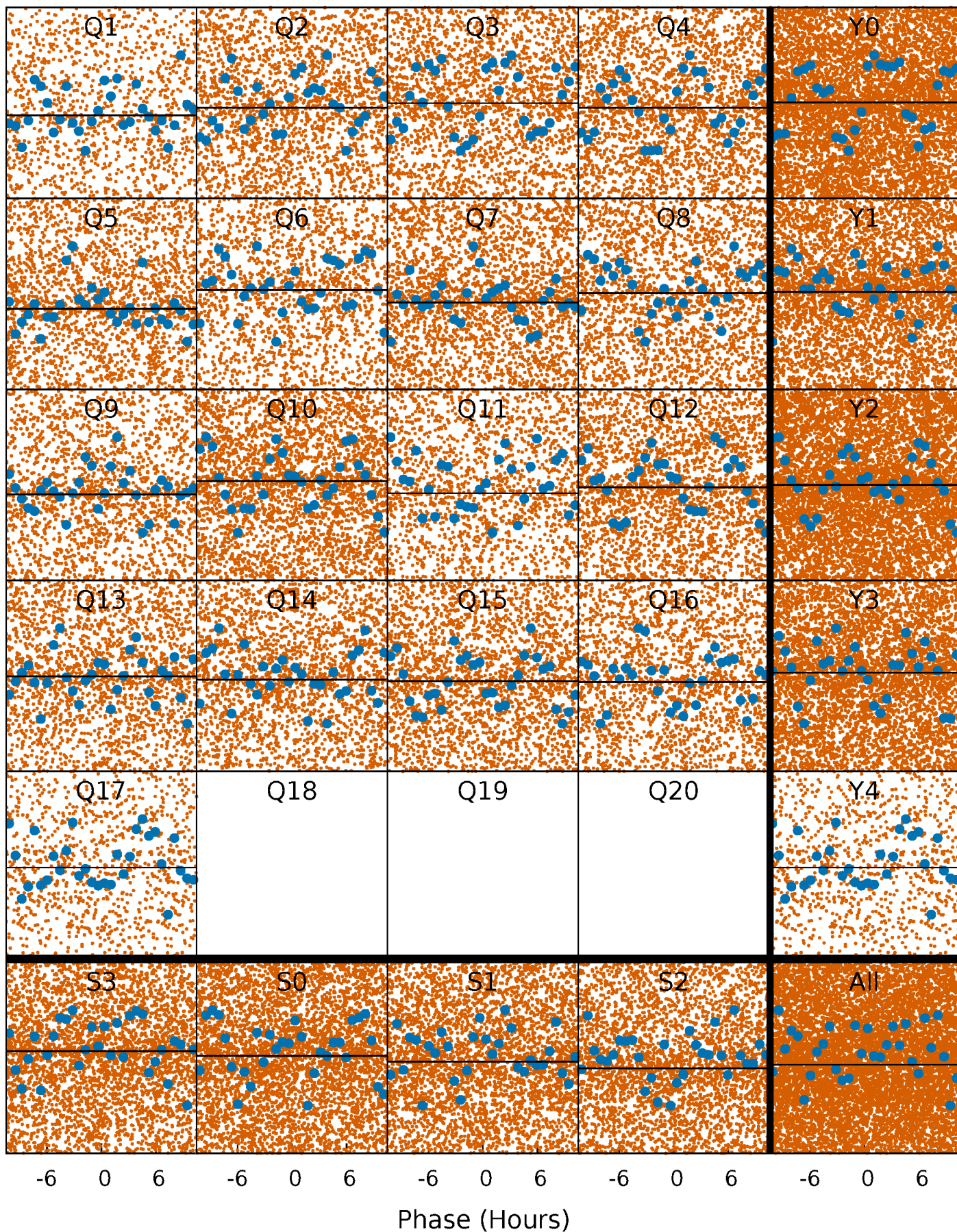
PDC Quarter-Phased Transit Curves

TCE 005216092-01 P= 0.663067 Days $T_0=131.996498$ (BKJD)



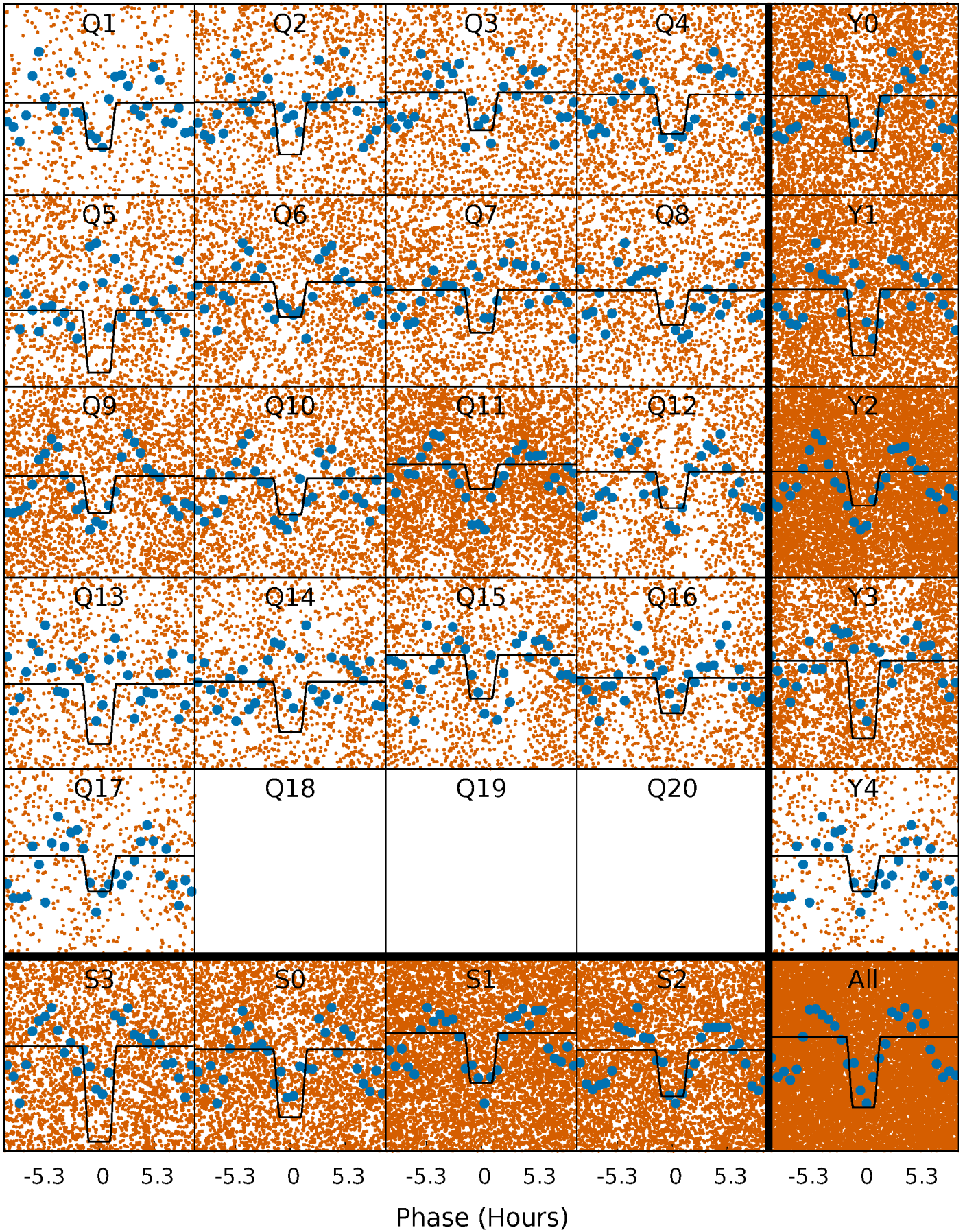
DV Quarter-Phased Transit Curves

TCE 005216092-01 P= 0.663067 Days $T_0=131.996498$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

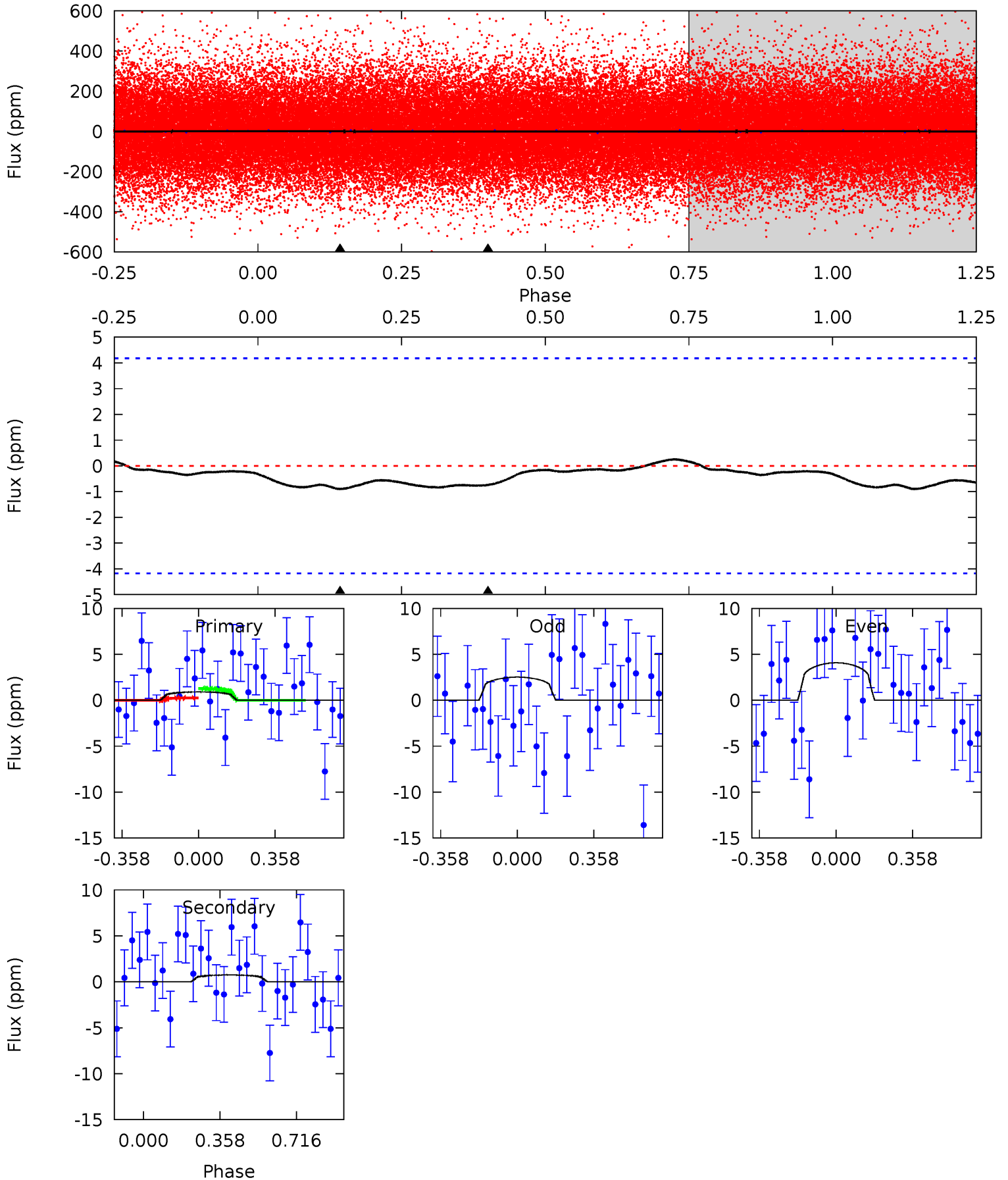
TCE 005216092-01 P= 0.662930 Days $T_0=131.952908$ (BKJD)



DV Model-Shift Uniqueness Test

005216092-01, P = 0.663067 Days, E = 131.333431 Days

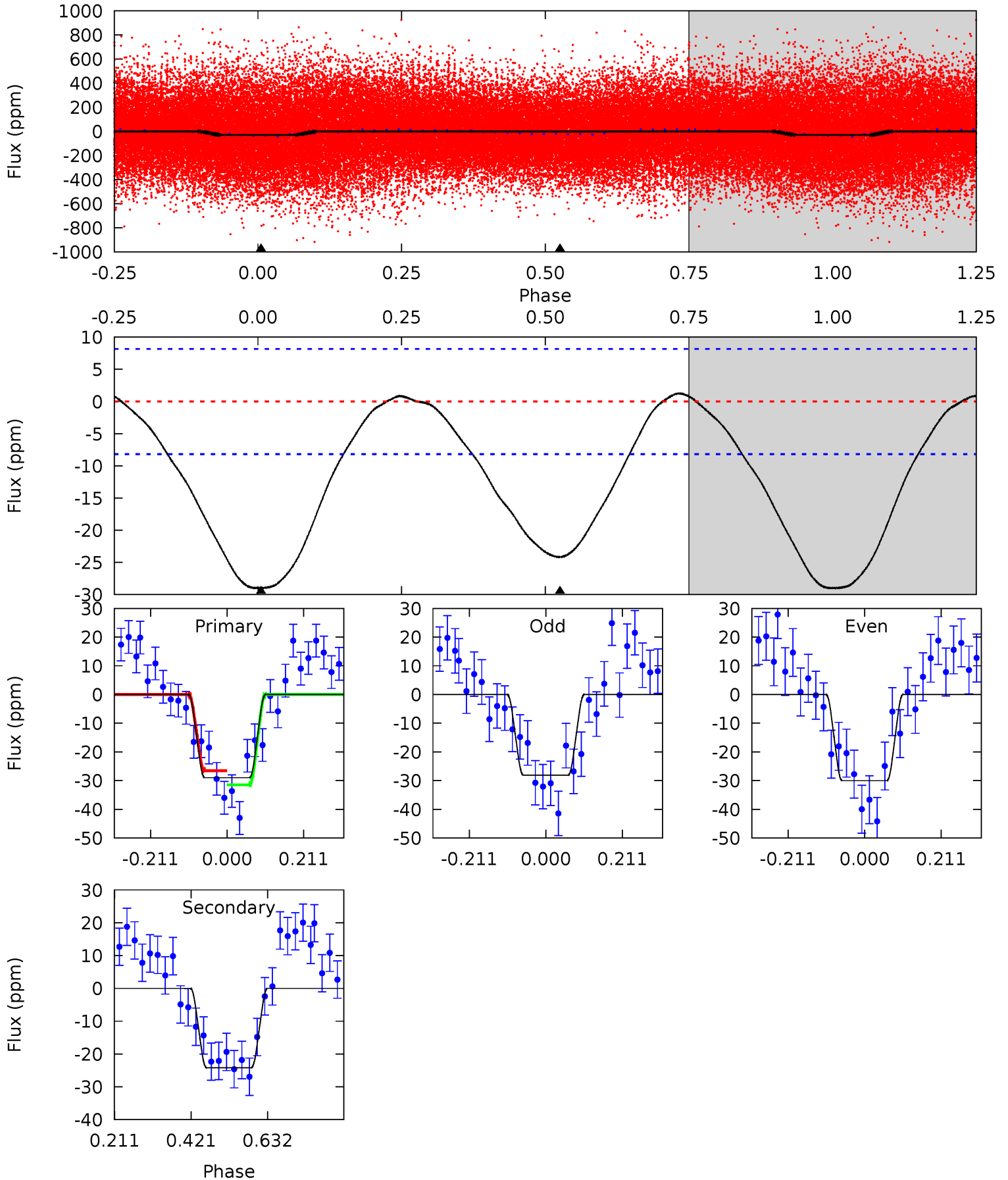
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.93	0.77	0	0	4.29	0.92	0.16	0.93	0.93	0.77	0.77	0.81	1.83	0.22	0.54



Alt Model-Shift Uniqueness Test

005216092-01, P = 0.662930 Days, E = 131.289978 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.6	13.0	0	0	4.41	1.25	0.47	15.6	15.6	13.0	13.0	0.52	0.85	0.04	1.29



Stellar Parameters For KIC 005216092

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6712^{+182}_{-202}	$3.538^{+0.328}_{-0.103}$	$-0.240^{+0.300}_{-0.250}$	$3.706^{+0.343}_{-1.372}$	$1.730^{+0.186}_{-0.345}$	$0.048^{+0.116}_{-0.012}$
	+3%/-3%	+9%/-3%	+125%/-104%	+9%/-37%	+11%/-20%	+242%/-25%
Source	PHO1	FLK73	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 005216092-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1 ± 1	$2.45^{+2.70}_{-1.81}$	5878^{+323}_{-531}	-4773^{+1336}_{-340}	$0.013^{+0.234}_{-0.017}$
Alt.	-24 ± 2	$3.54^{+2.97}_{-2.21}$	5895^{+325}_{-526}	3328^{+4531}_{-7865}	$0.334^{+1.927}_{-0.237}$

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

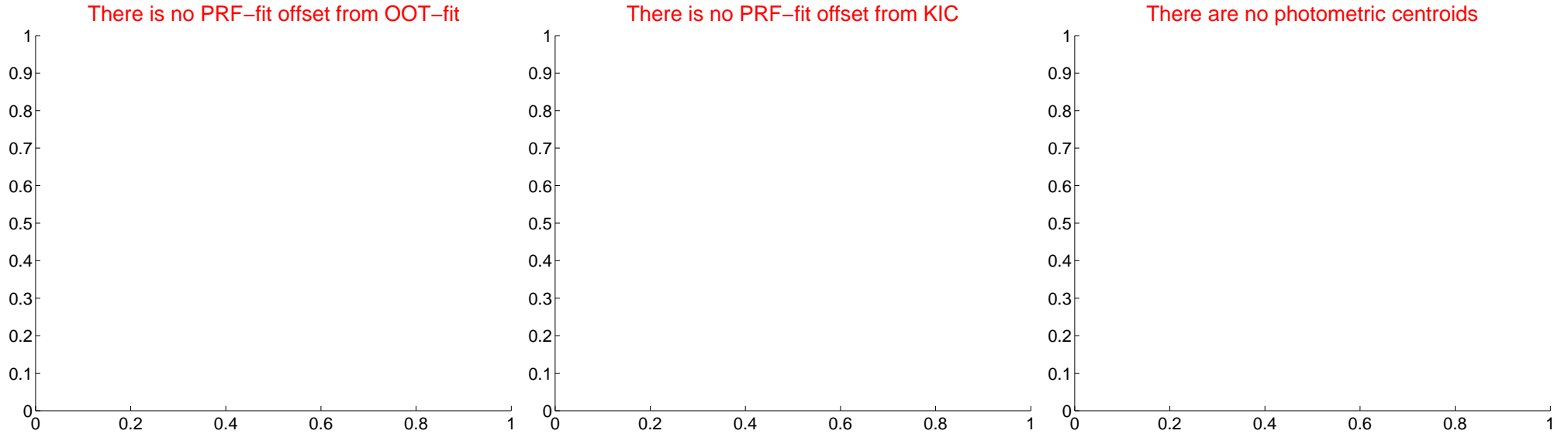
DV Centroid Data

Supplemental centroid analysis for 005216092-01. Kepler magnitude: 12.94. Transit SNR 0.01

There are 0 quarters with good PRF difference image offsets

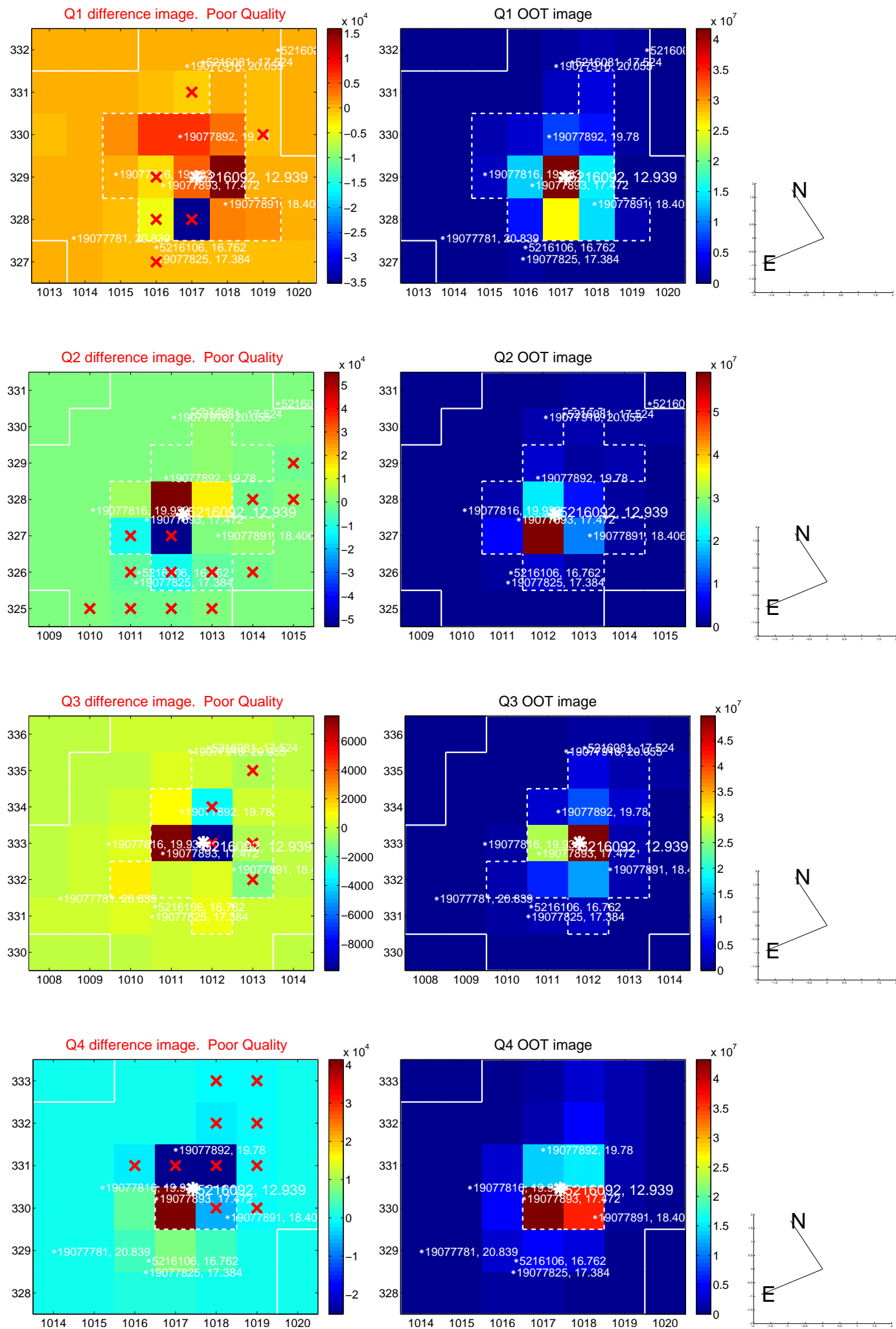
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	—	—	—	—

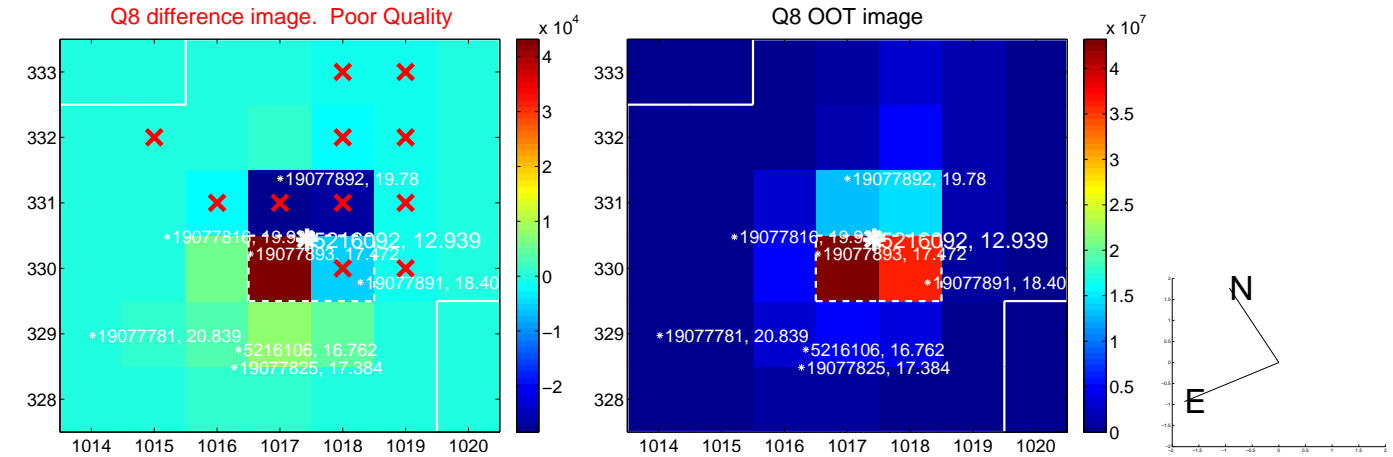
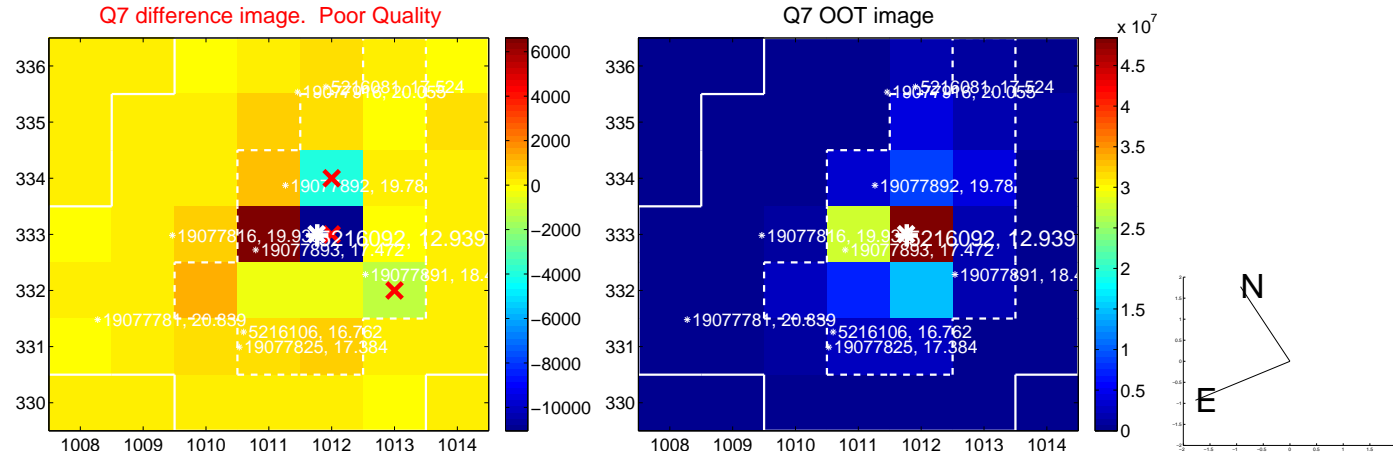
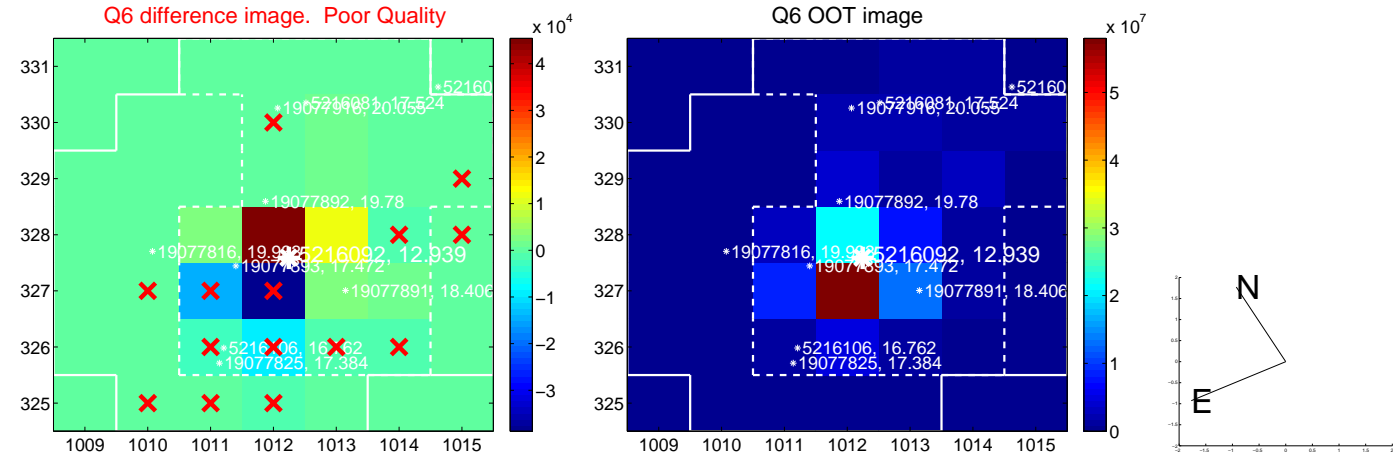
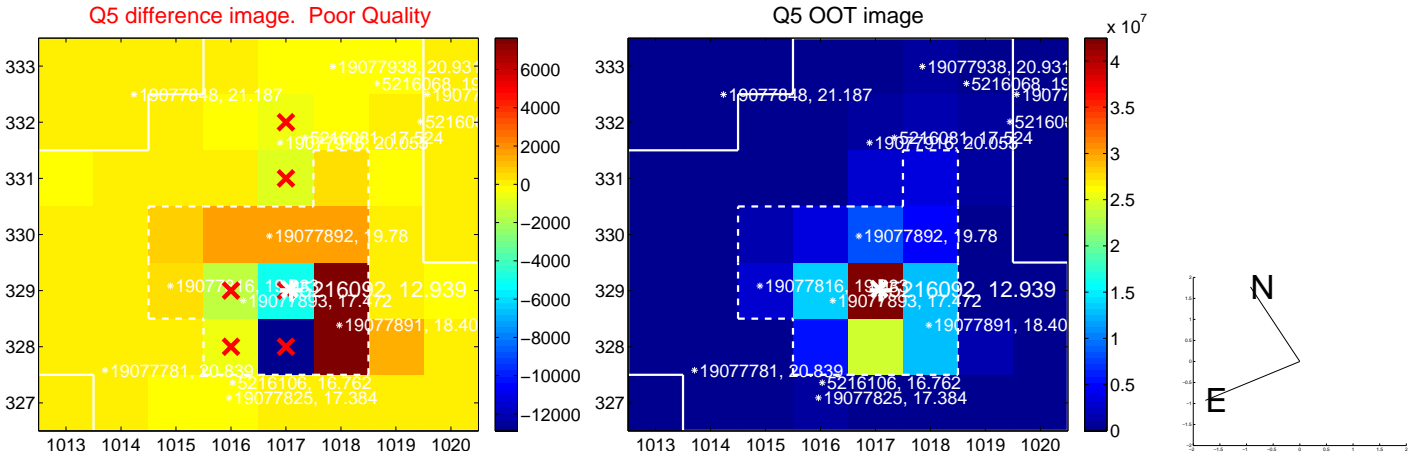


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

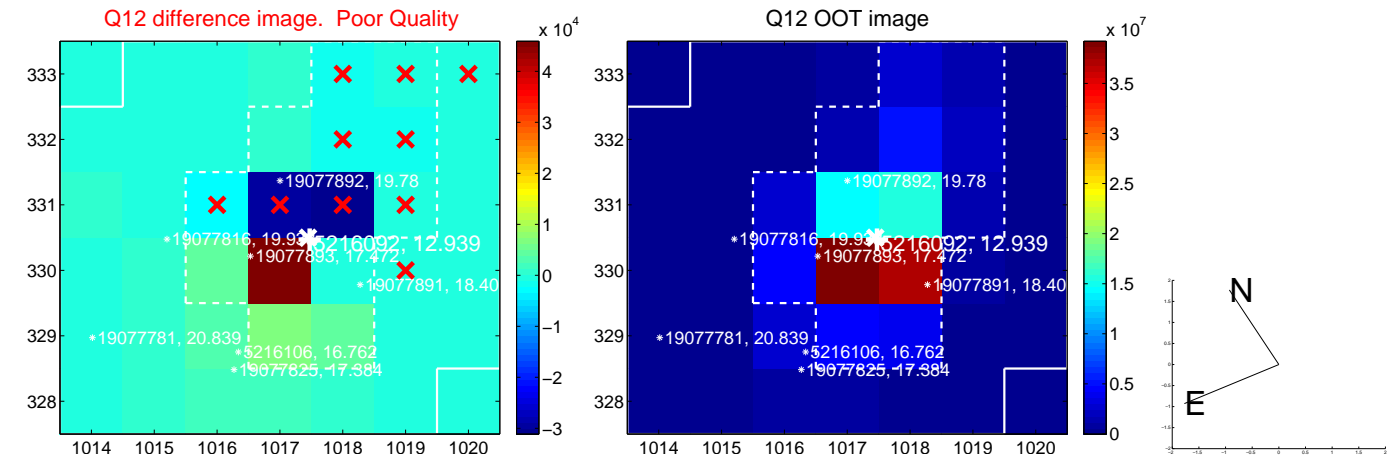
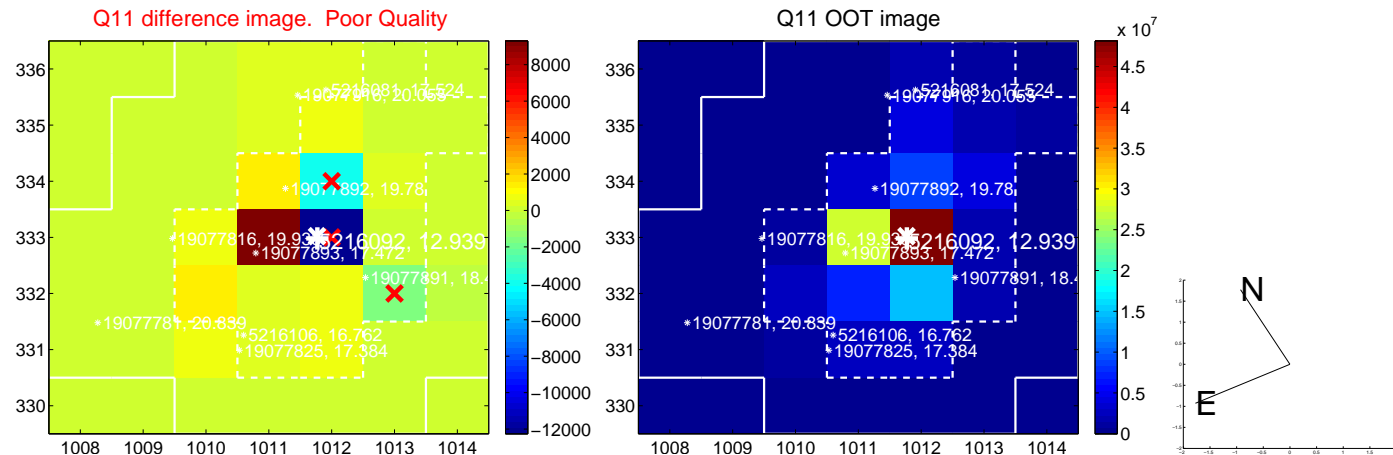
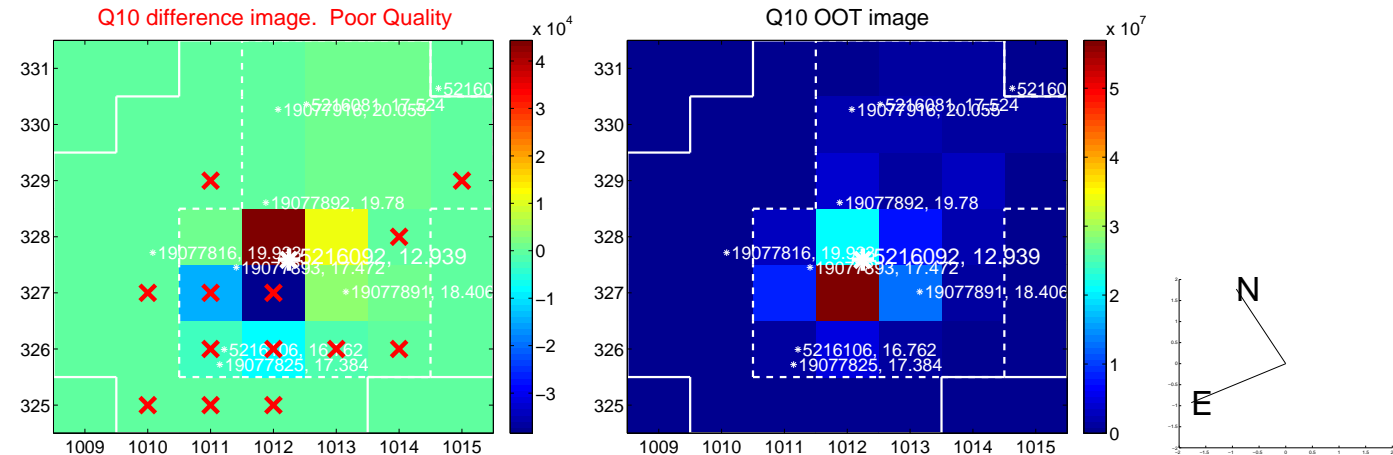
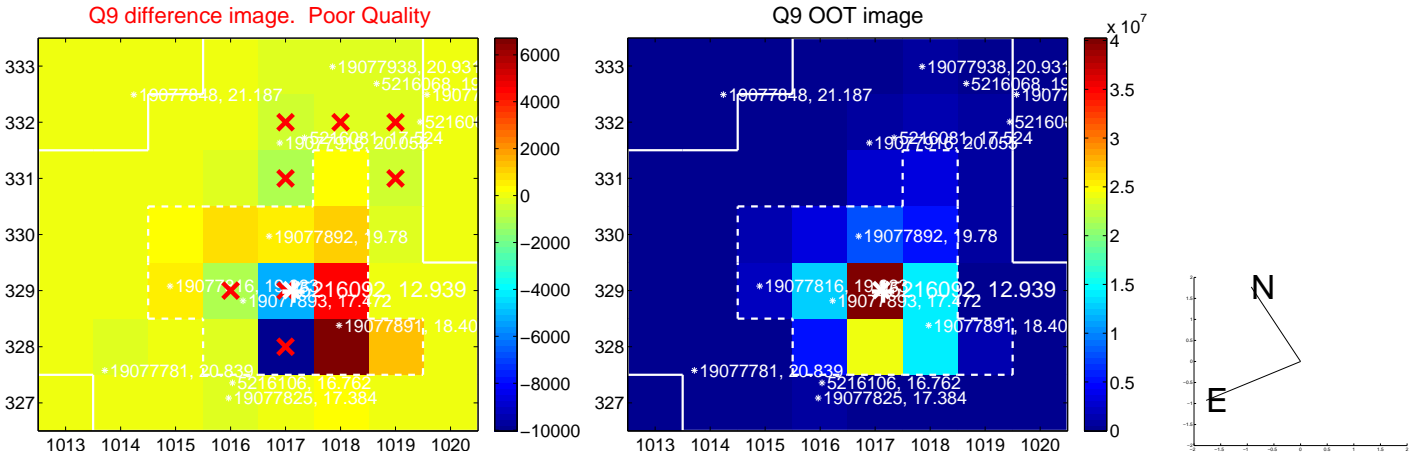
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



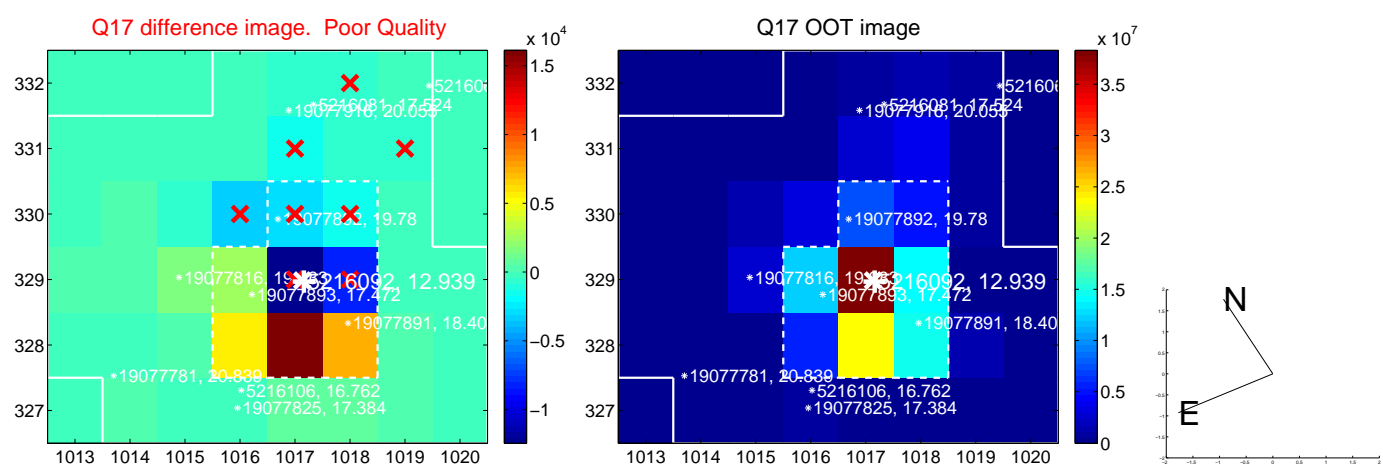
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

