

KIC 007692619

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})
007692619-01	OBS	No	2.189251	132.894464	1.4	25.125	13.3	0.8	1.44	7055	0.17	3441.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692619-01	OBS	FP	0.00	1	0	1	0	SWEET_NTL—LPP_DV—LPP_ALT—CENT_UNRESOLVED_OFFSET

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

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

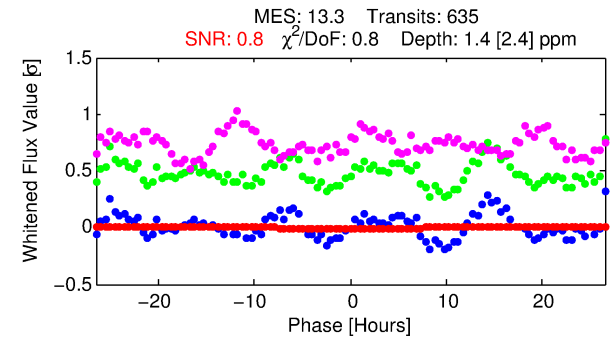
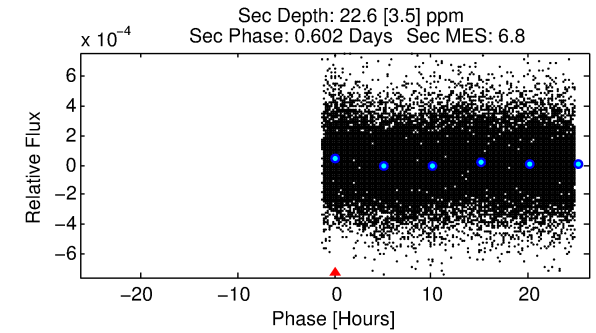
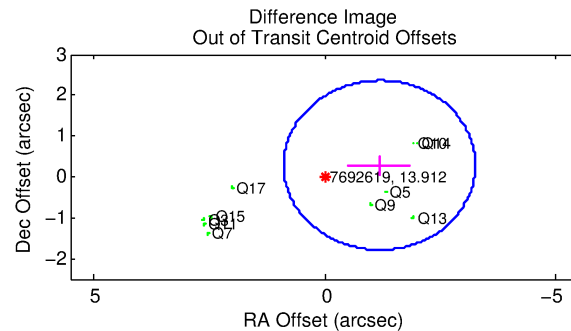
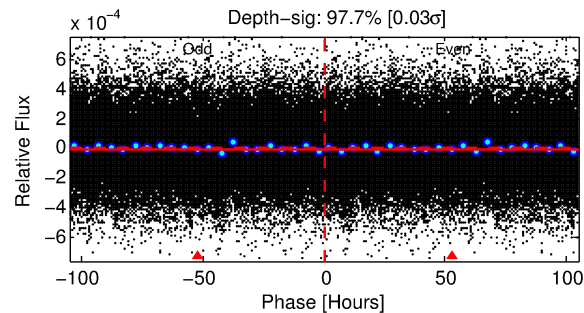
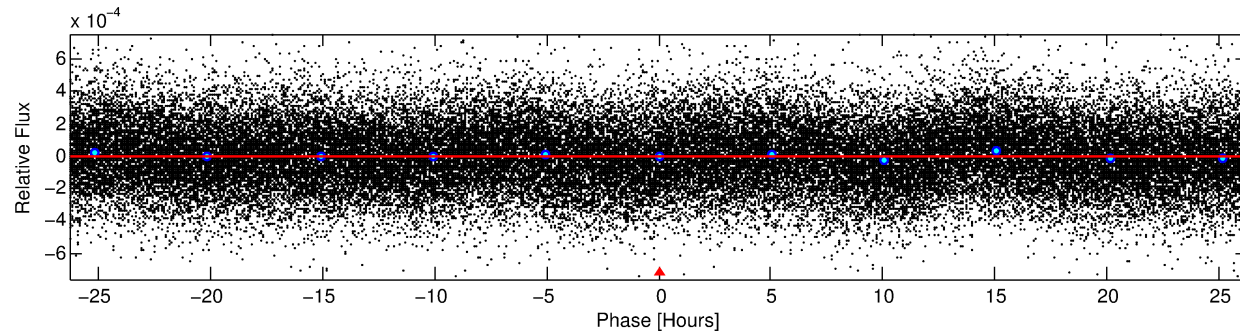
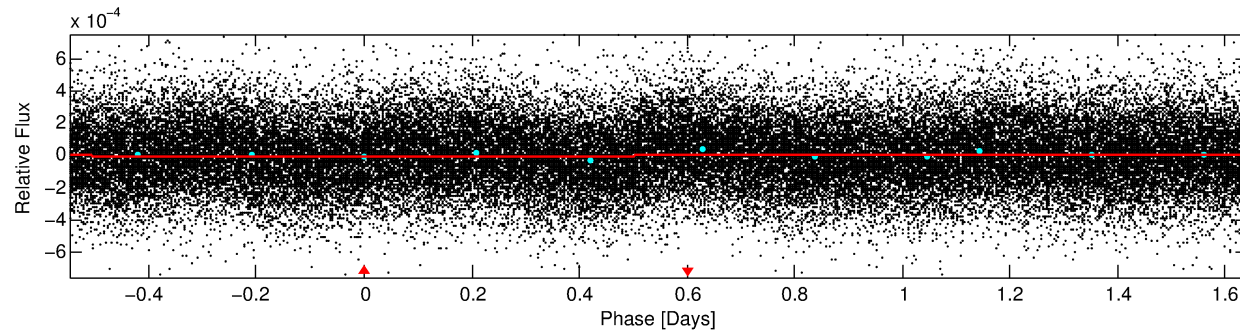
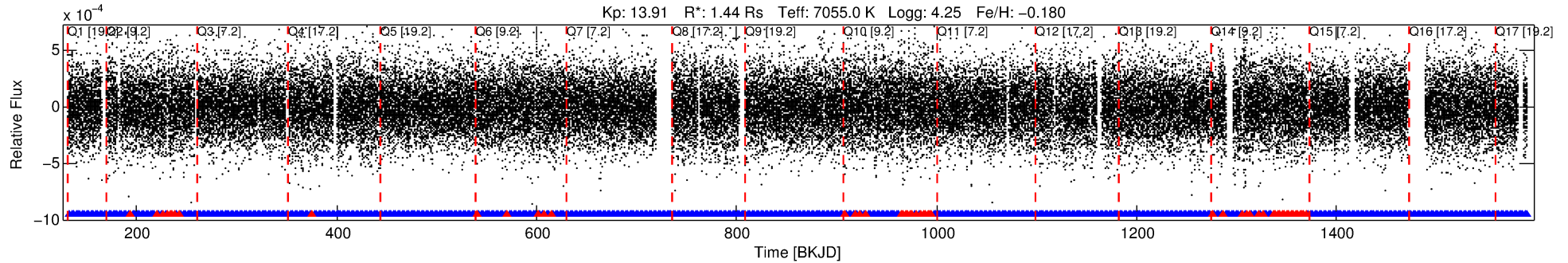
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692619-01

No Significant Match Found

DV One-Page Summary

KIC: 7692619 Candidate: 1 of 1 Period: 2.189 d



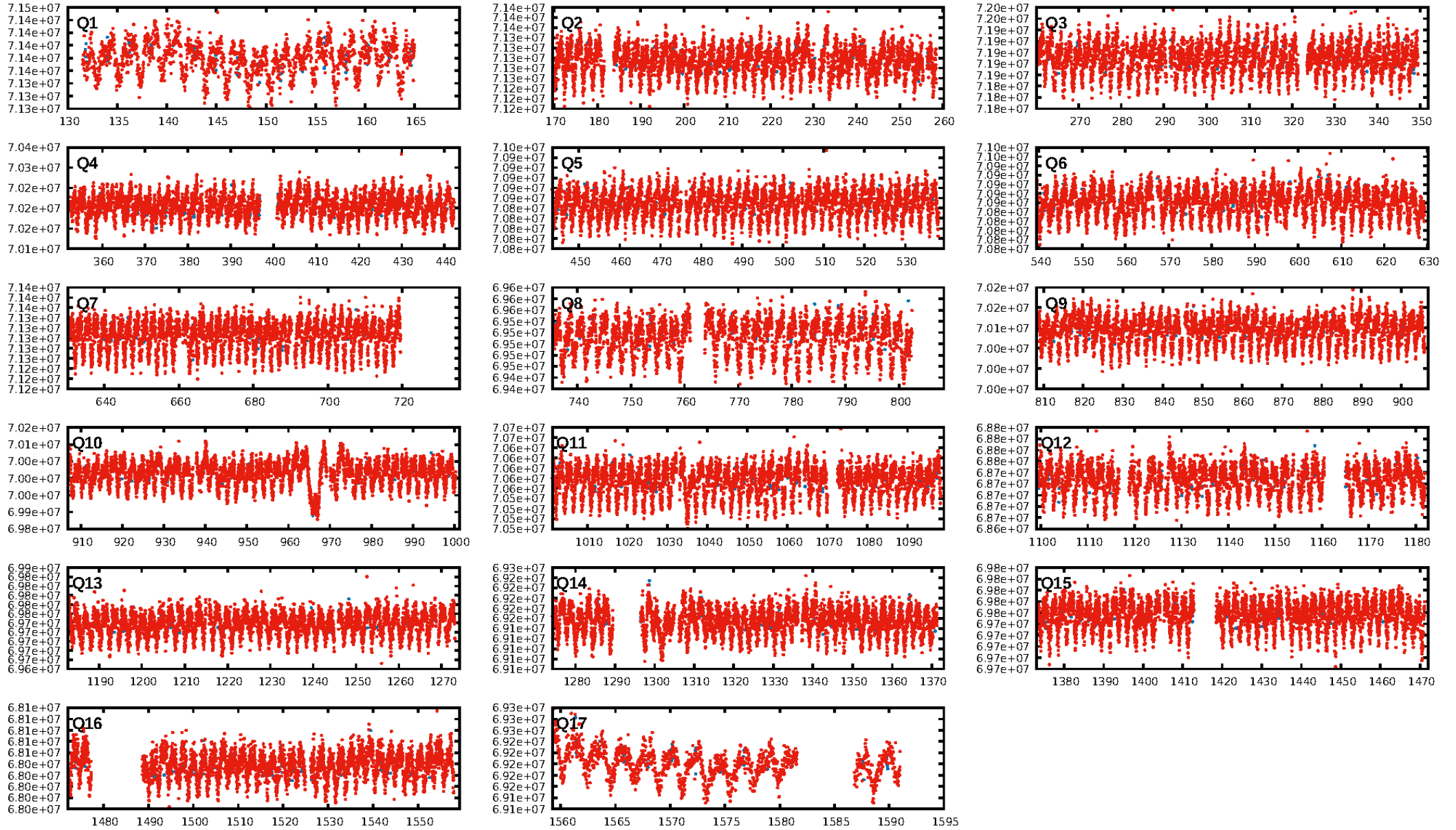
DV Fit Results:

Period = 2.18925 [0.00084] d
Epoch = 132.8945 [0.2034] BKJD
Rp/R* = 0.0011 [0.0098]
a/R* = 1.00 [0.33]
b = 0.24 [209.72]
Seff = 3441.86 [1409.52]
Teq = 1953 [200] K
Rp = 0.17 [1.54] Re
a = 0.0365 [0.0098] AU
Ag = 558.80 [9981.44] [0.06 σ]
Teffp = 14682 [65552] K [0.19 σ]

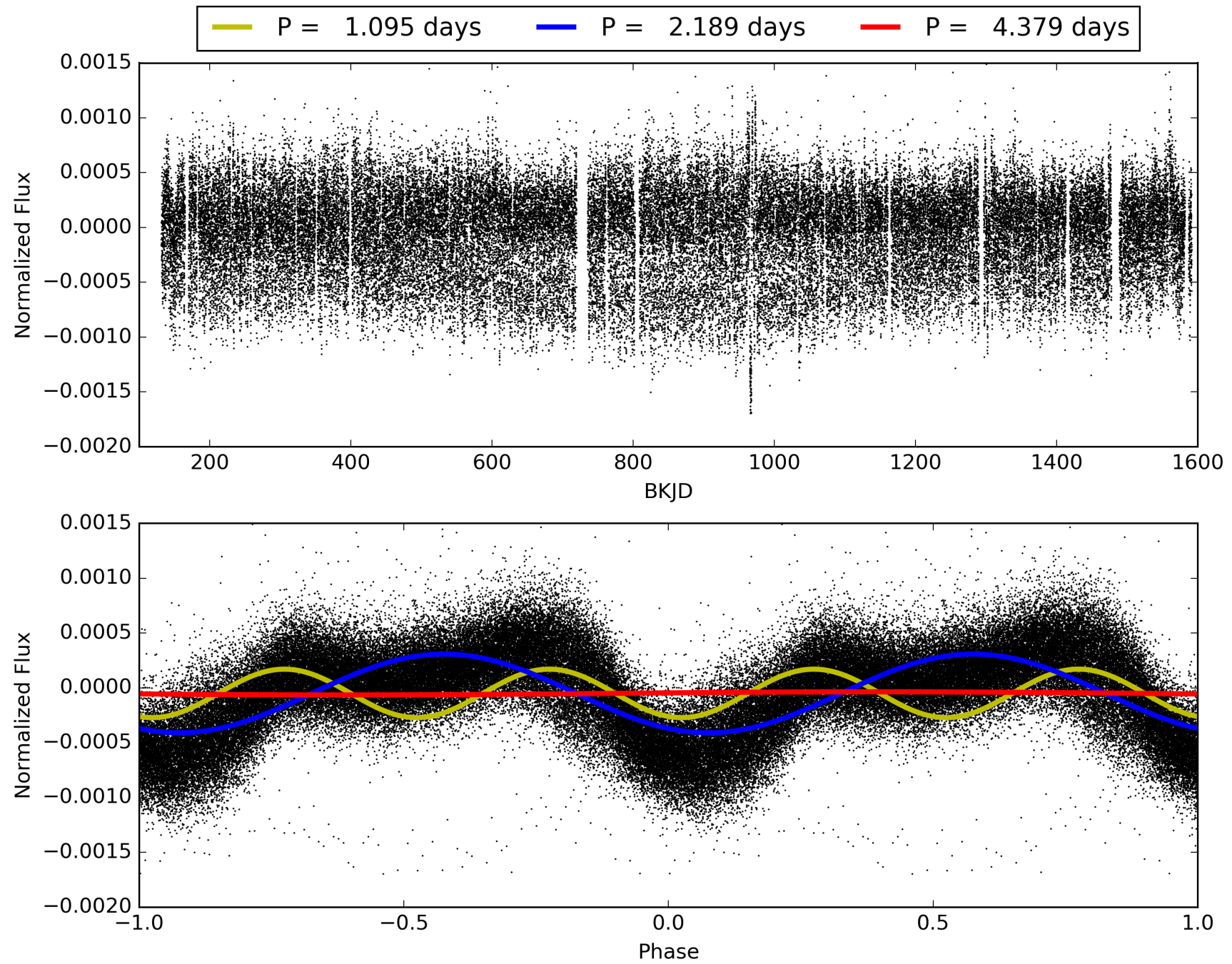
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.91 [553/607]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.220 arcsec [1.76 σ]
KicOffset-rm: 1.333 arcsec [1.92 σ]
OotOffset-st: 2/4/0/4 [10]
KicOffset-st: 2/4/0/4 [10]
DiffImageQuality-fgm: 1.00 [10/10]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007692619-01, PDC Light Curves

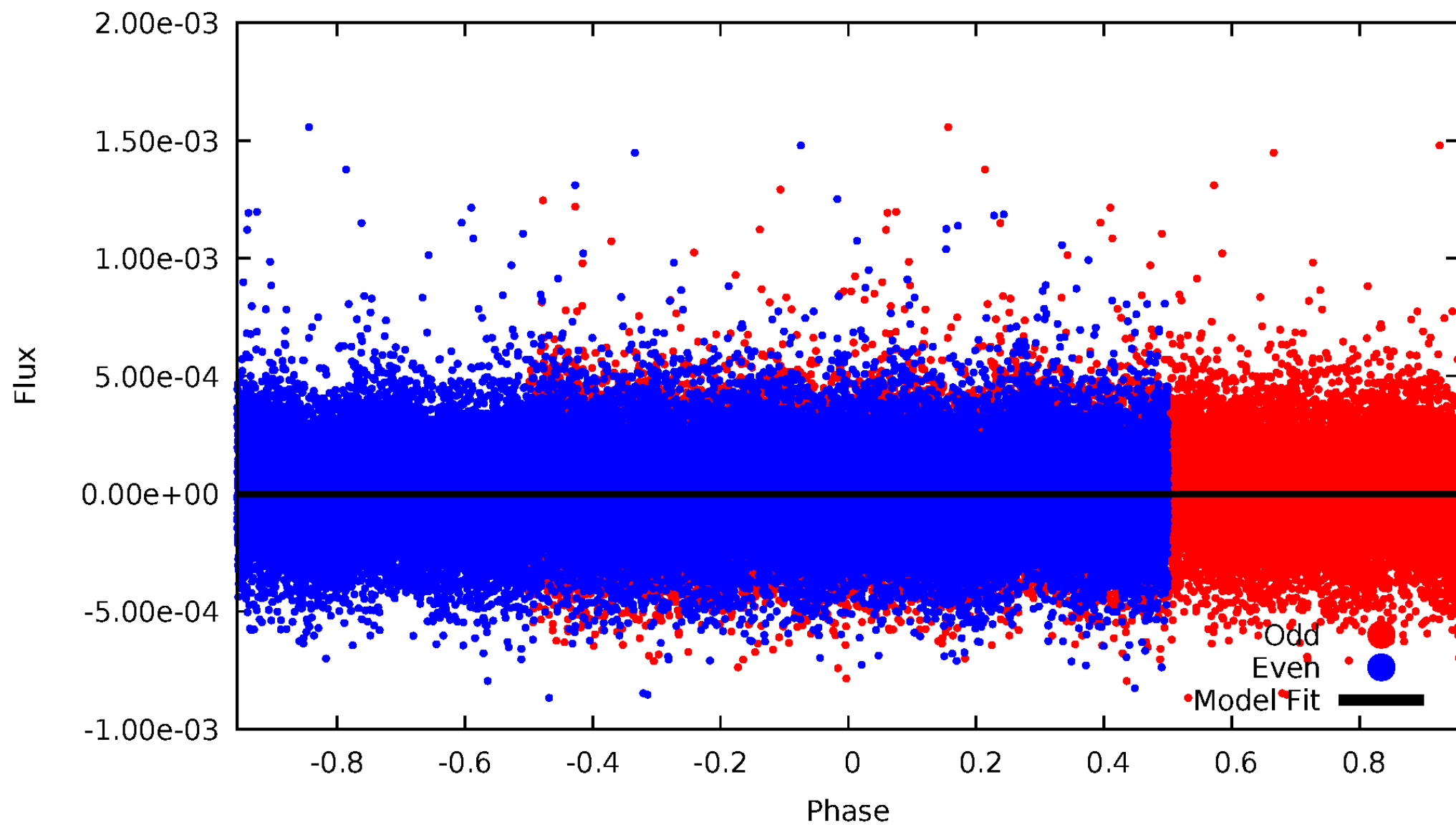


TCE 007692619-01



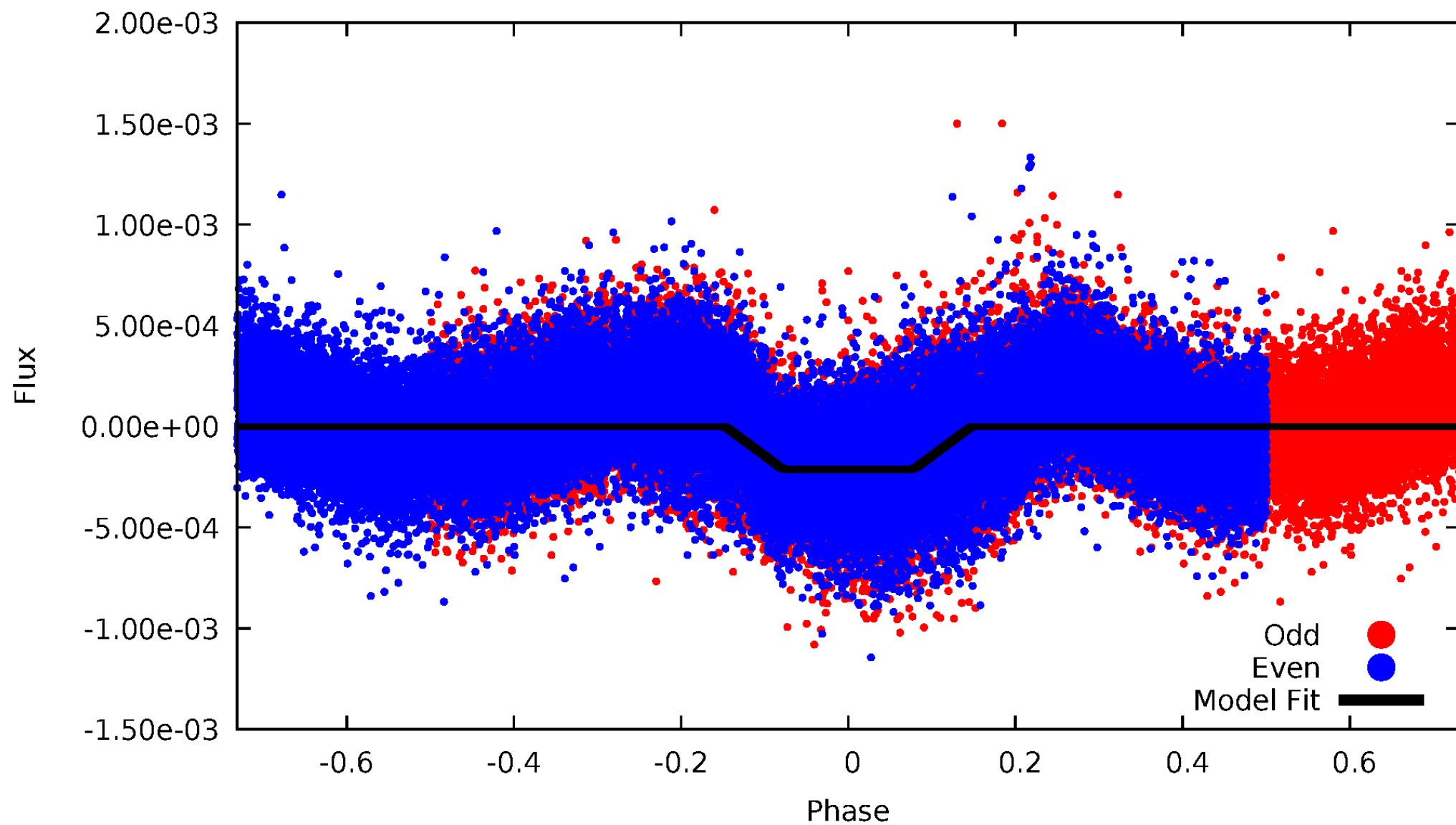
DV Odd/Even

TCE 007692619-01



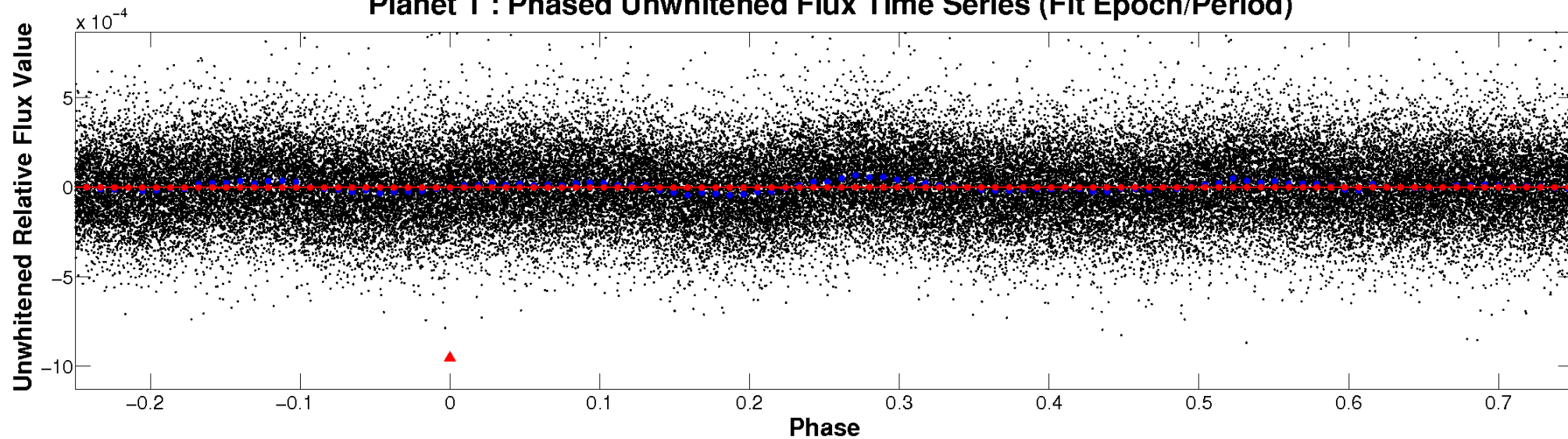
ALT Odd/Even

TCE 007692619-01

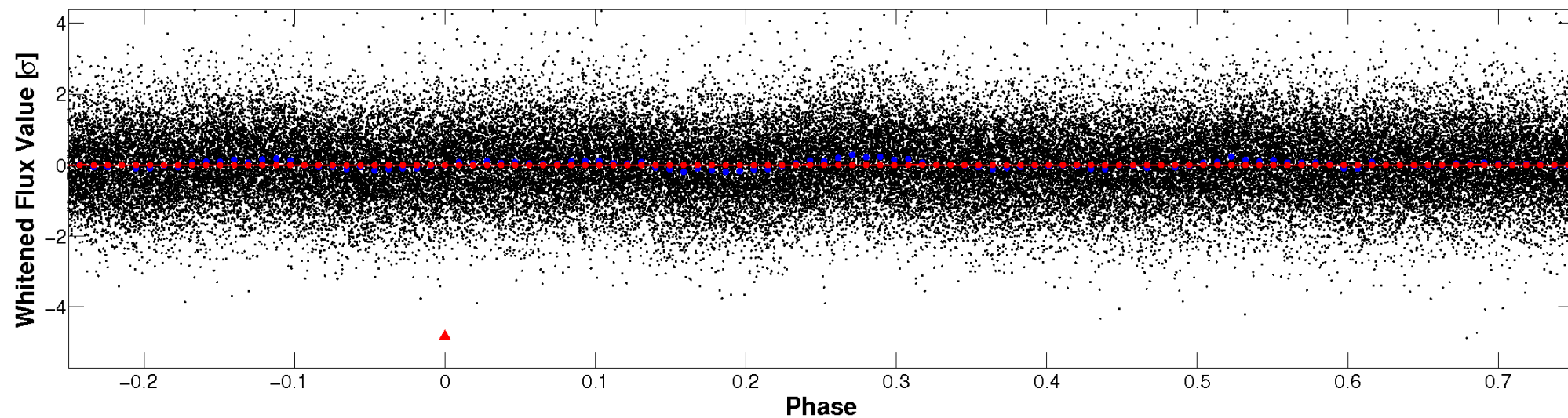


Non-Whitened Vs. Whitened Light Curve

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

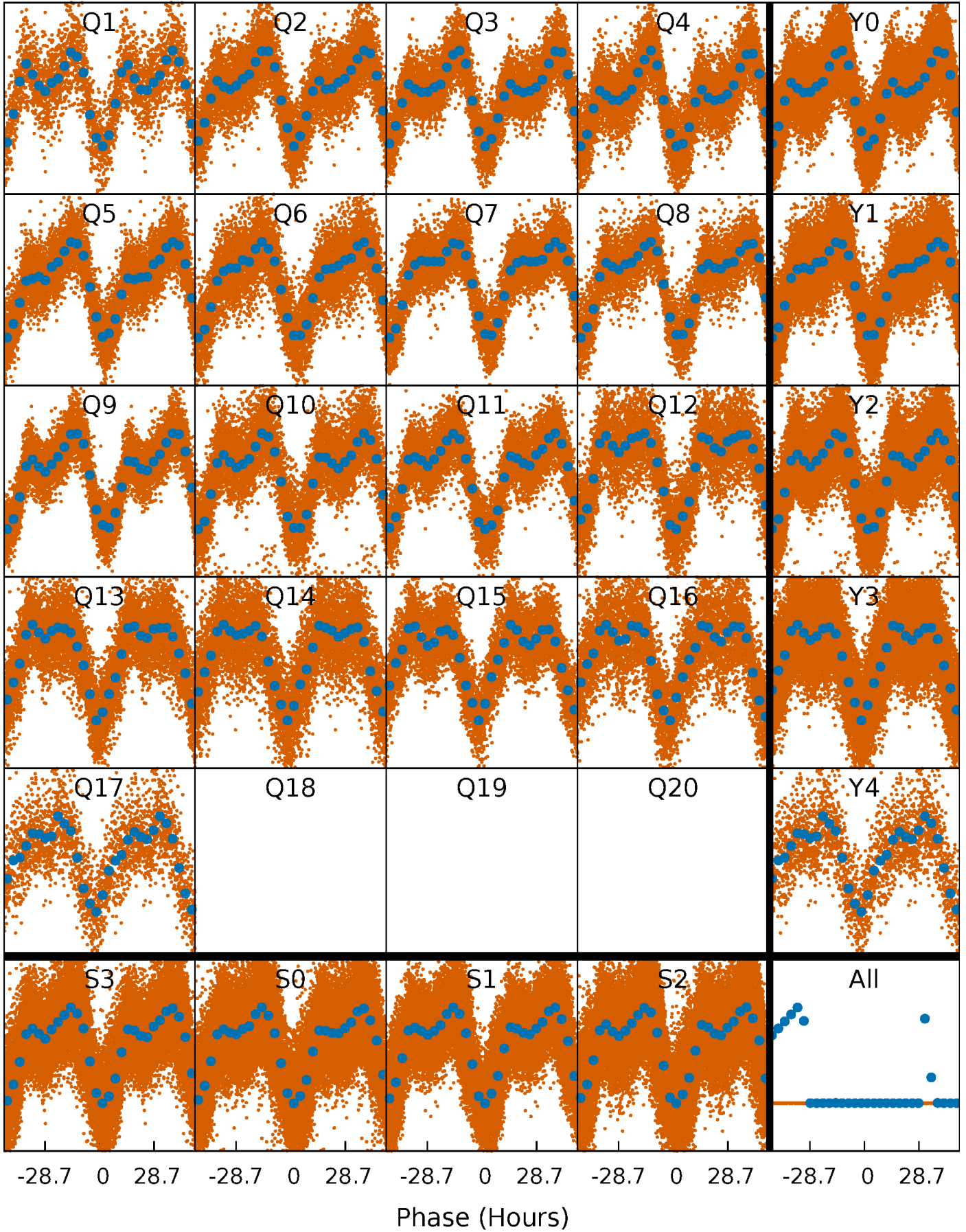


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



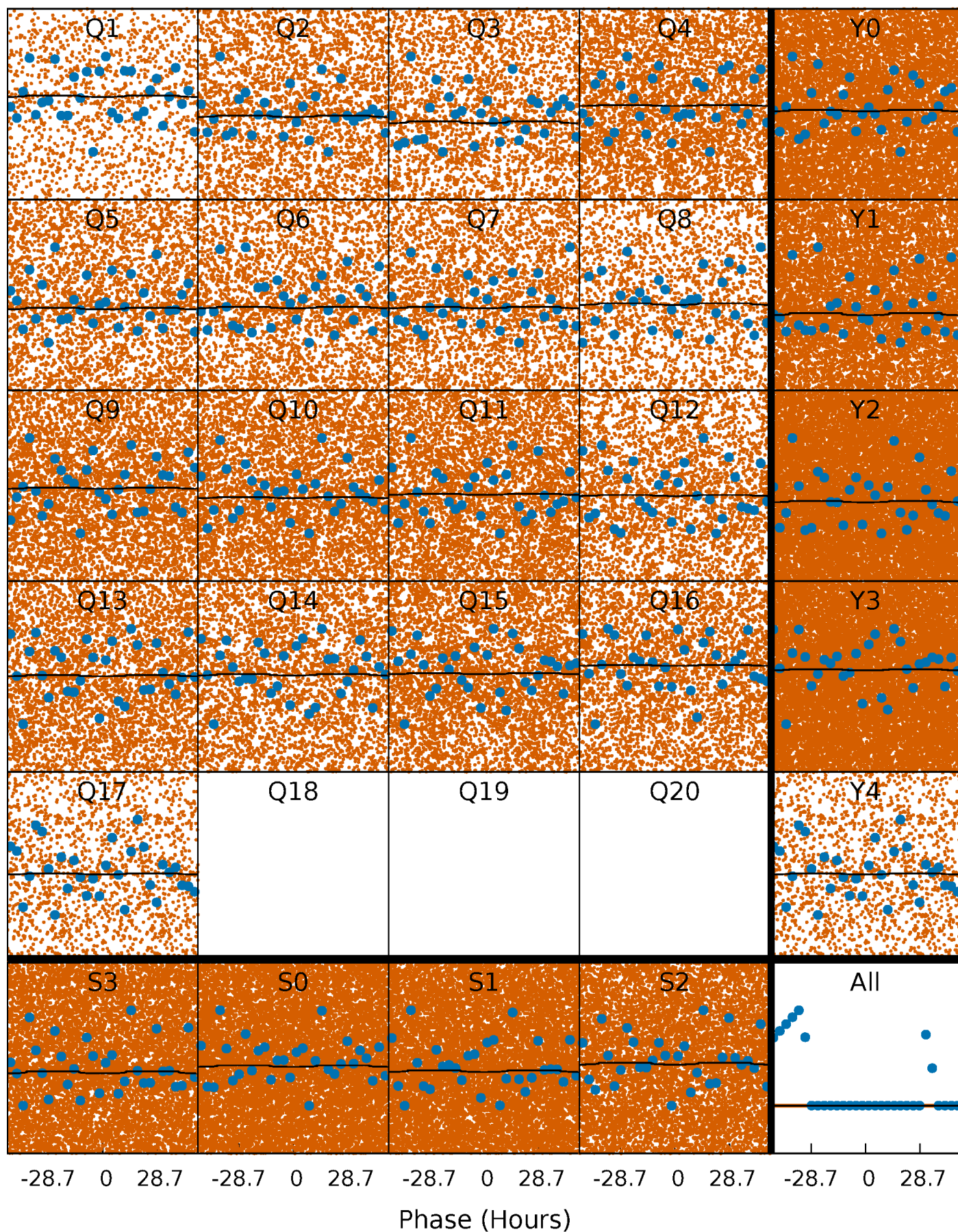
PDC Quarter-Phased Transit Curves

TCE 007692619-01 P= 2.189251 Days $T_0=132.894464$ (BKJD)



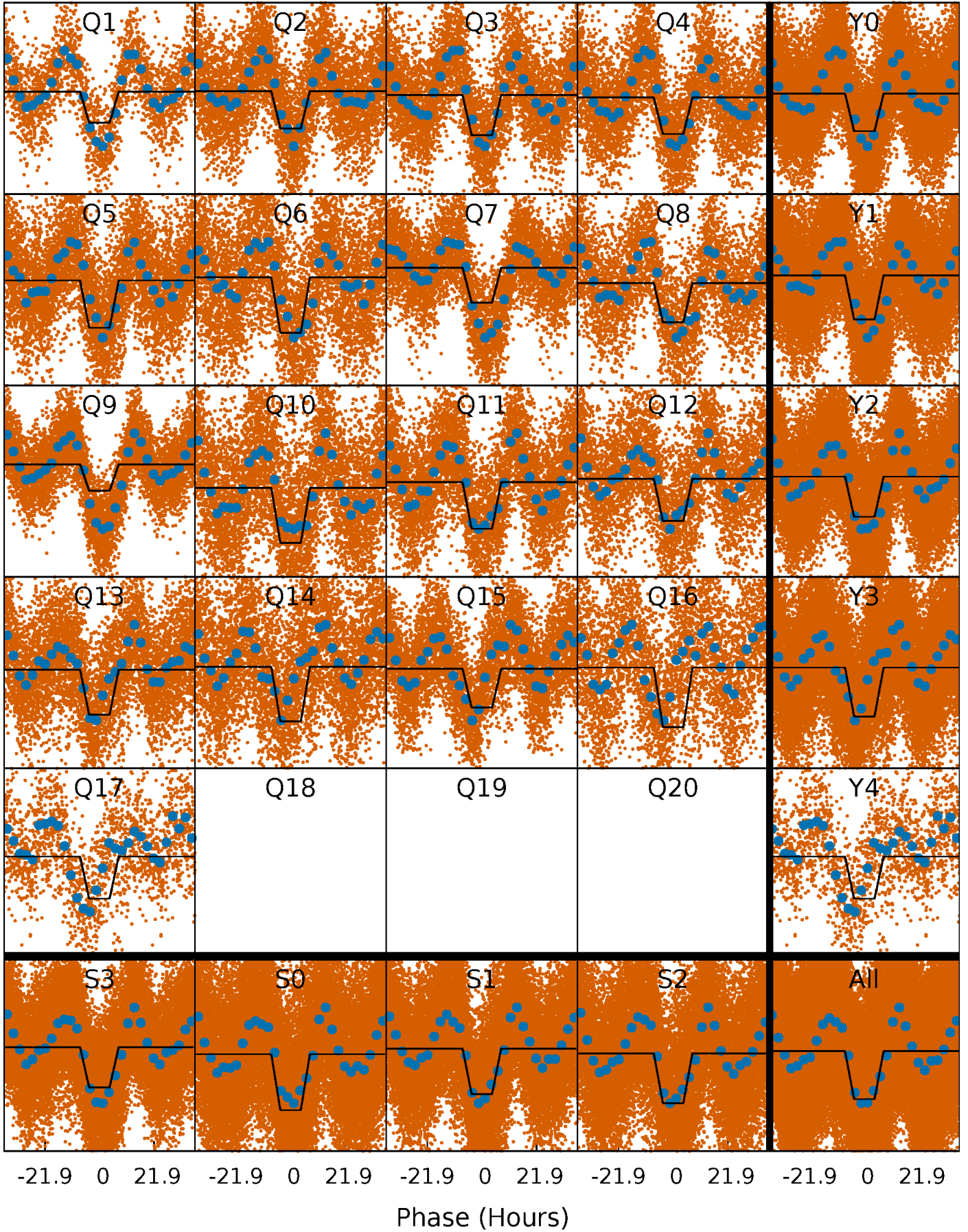
DV Quarter-Phased Transit Curves

TCE 007692619-01 P= 2.189251 Days $T_0=132.894464$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

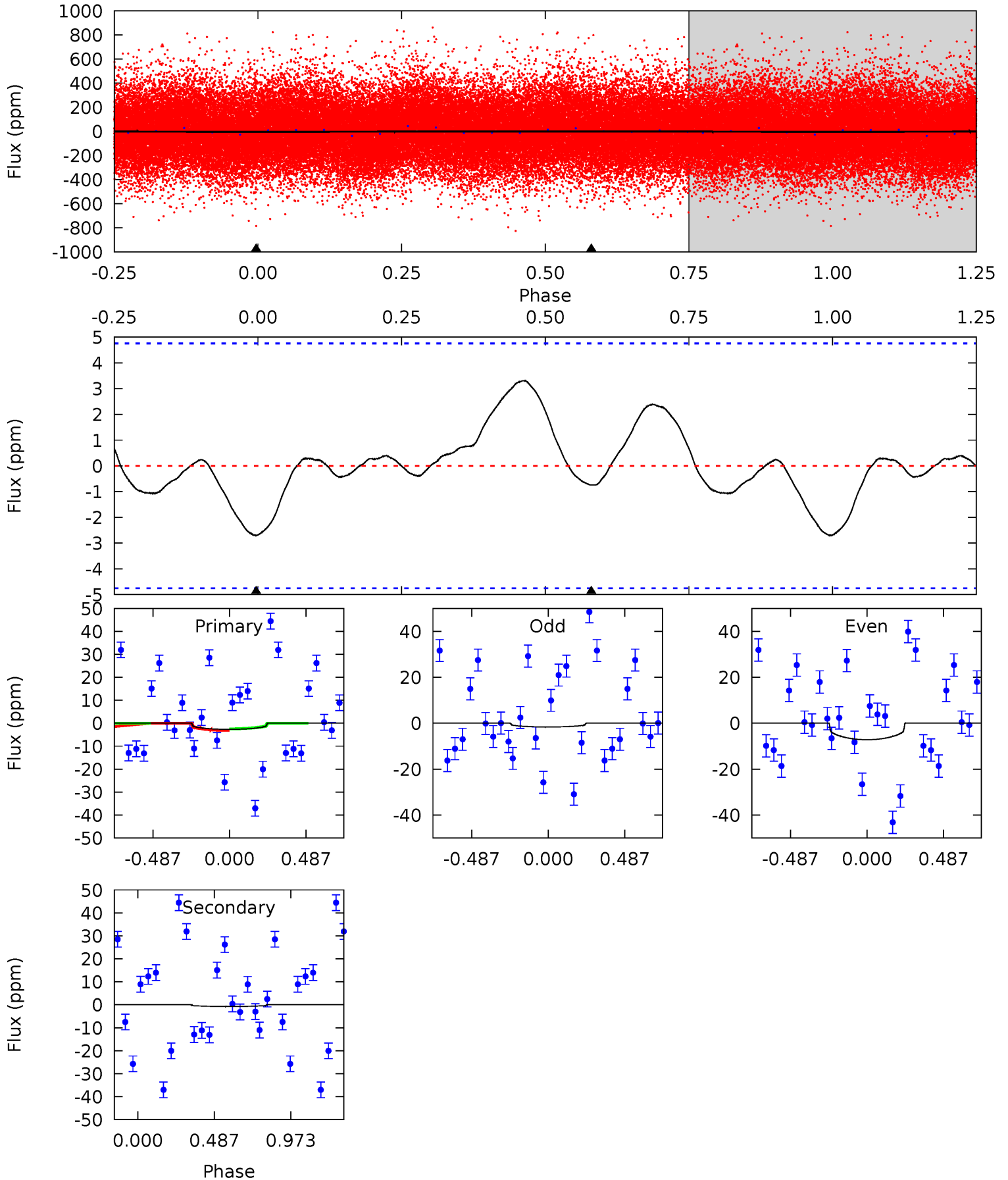
TCE 007692619-01 P= 2.189354 Days $T_0=132.906019$ (BKJD)



DV Model-Shift Uniqueness Test

007692619-01, P = 2.189251 Days, E = 130.705213 Days

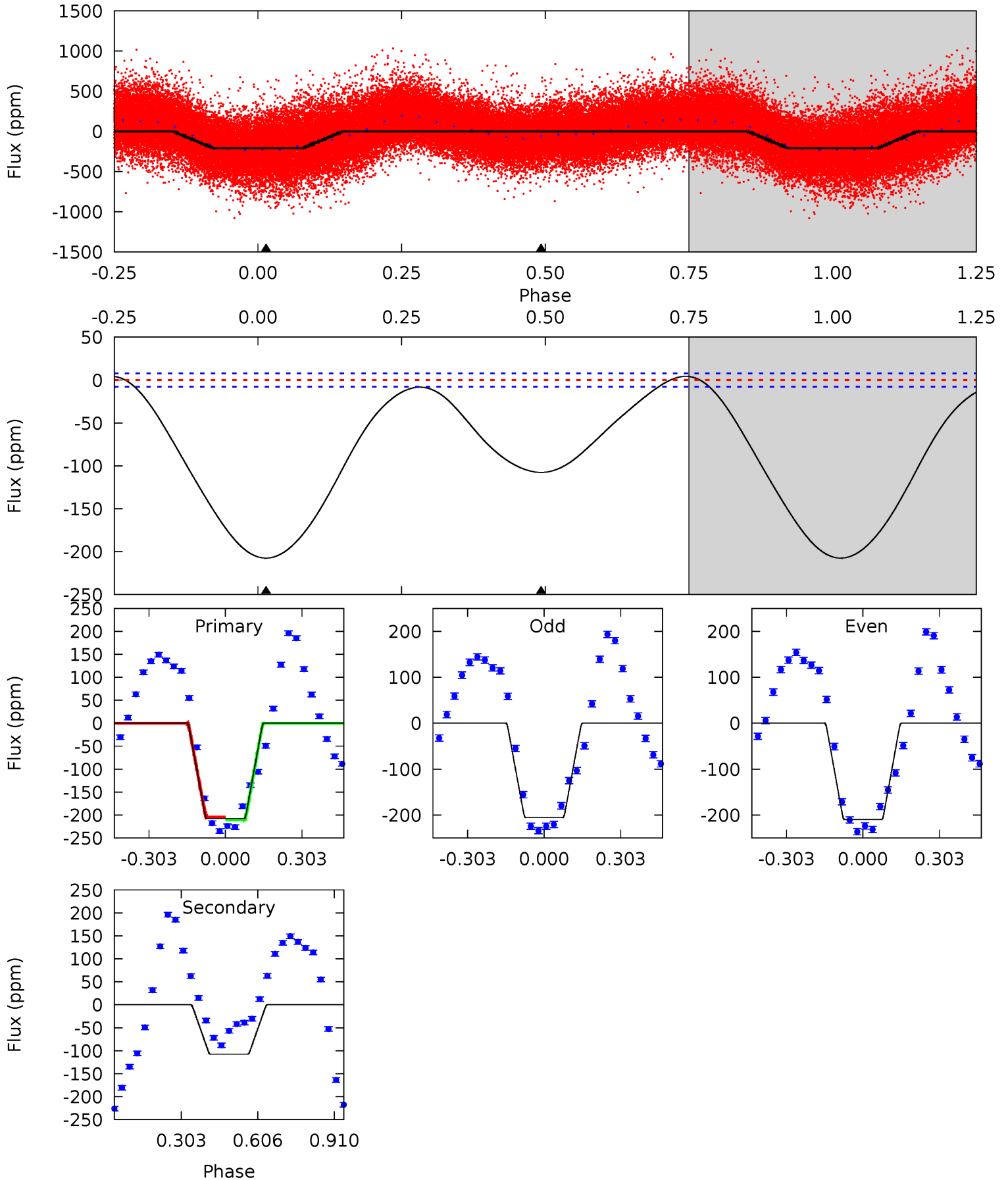
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.40	0.66	0	0	4.22	0.70	0.26	2.40	2.40	0.66	0.66	2.50	0.72	0.55	0.33



Alt Model-Shift Uniqueness Test

007692619-01, P = 2.189354 Days, E = 130.716665 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
114.7	59.5	0	0	4.33	1.03	4.08	114.7	114.7	59.5	59.5	1.16	1.12	0.02	2.05



Stellar Parameters For KIC 007692619

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7055^{+200}_{-300}	$4.254^{+0.105}_{-0.195}$	$-0.180^{+0.250}_{-0.350}$	$1.437^{+0.478}_{-0.221}$	$1.358^{+0.203}_{-0.223}$	$0.645^{+0.316}_{-0.336}$
	+3%/-4%	+2%/-5%	+139%/-194%	+33%/-15%	+15%/-16%	+49%/-52%
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 007692619-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1 ± 1	$1.21^{+1.17}_{-0.81}$	2747^{+213}_{-165}	-2395^{+6599}_{-734}	$0.236^{+2.791}_{-0.342}$
Alt.	-108 ± 2	$2.47^{+1.56}_{-1.40}$	2745^{+197}_{-162}	5664^{+3382}_{-1065}	13^{+56}_{-8}

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

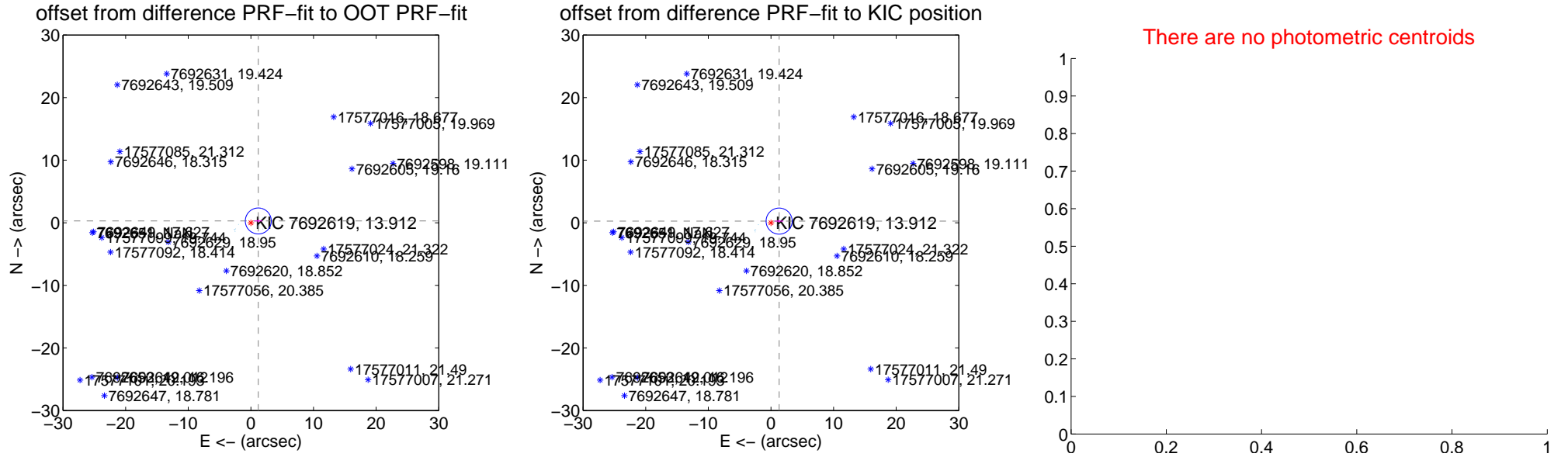
DV Centroid Data

Supplemental centroid analysis for 007692619-01. Kepler magnitude: 13.91. Transit SNR 0.79

There are 10 quarters with good PRF difference image offsets

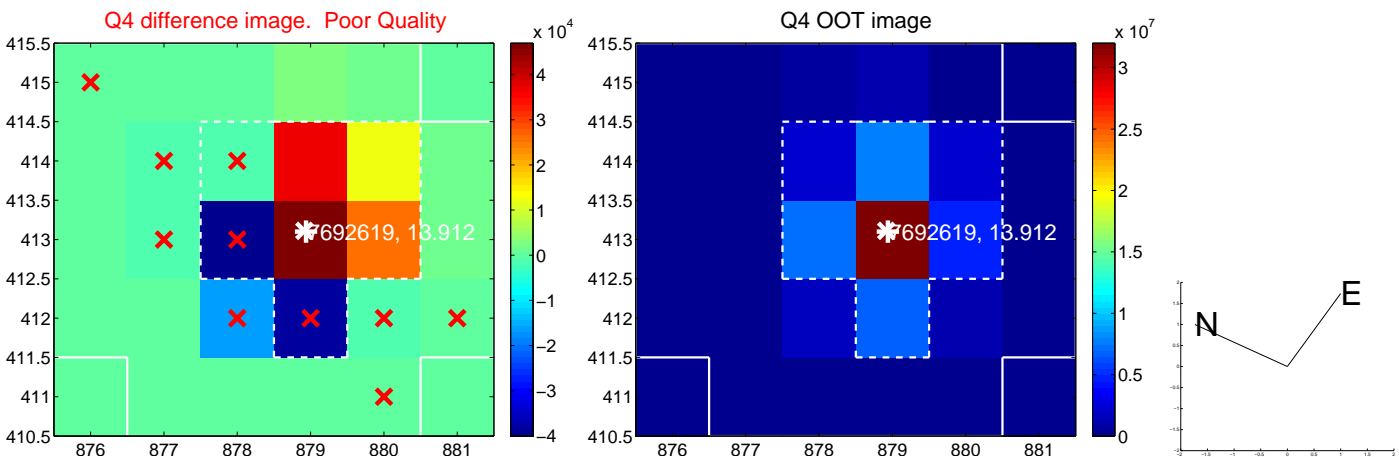
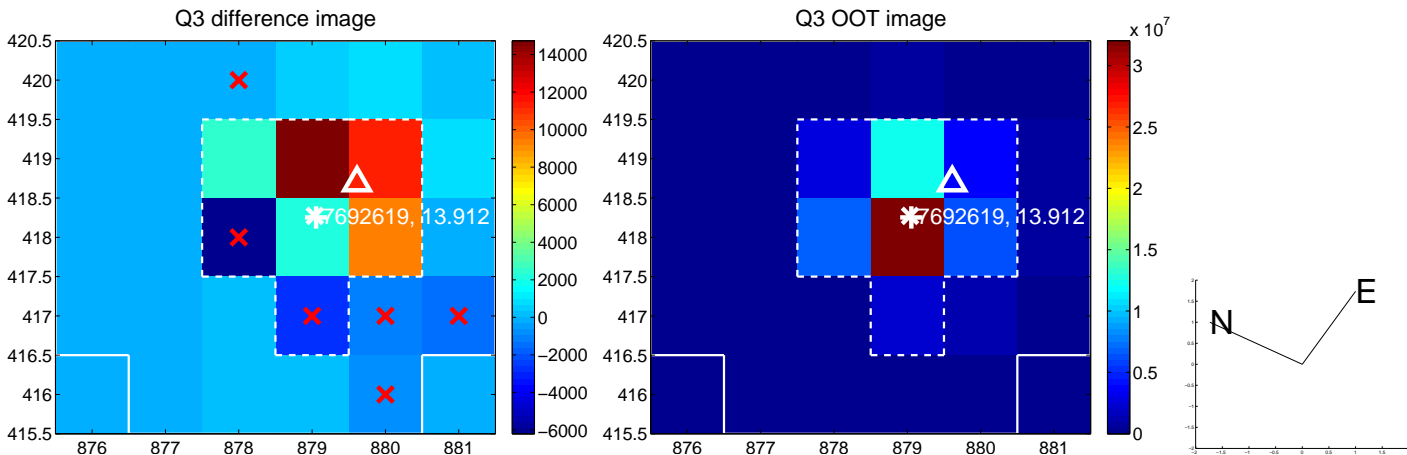
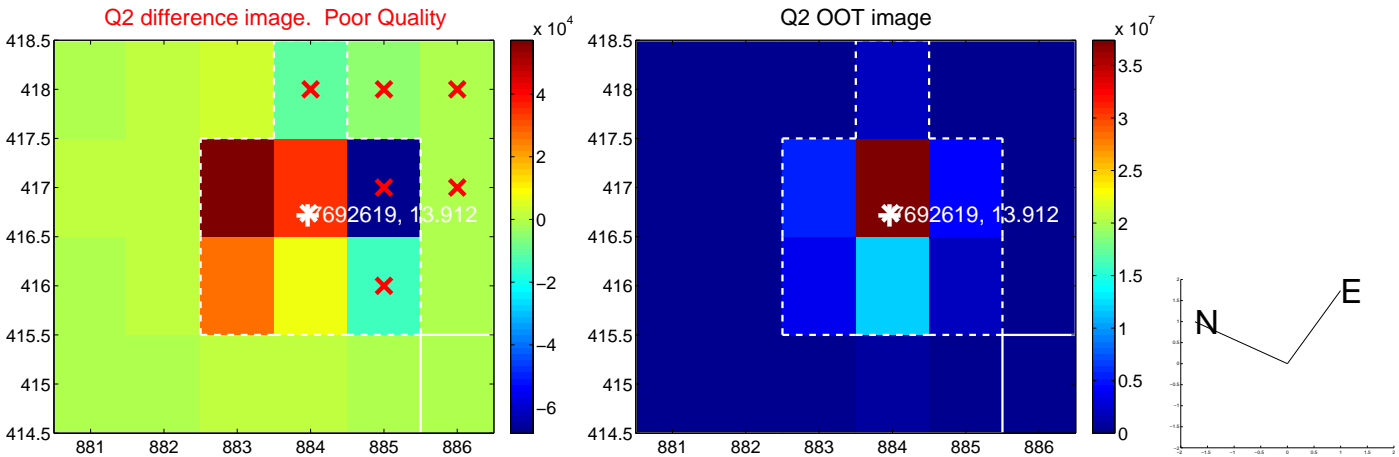
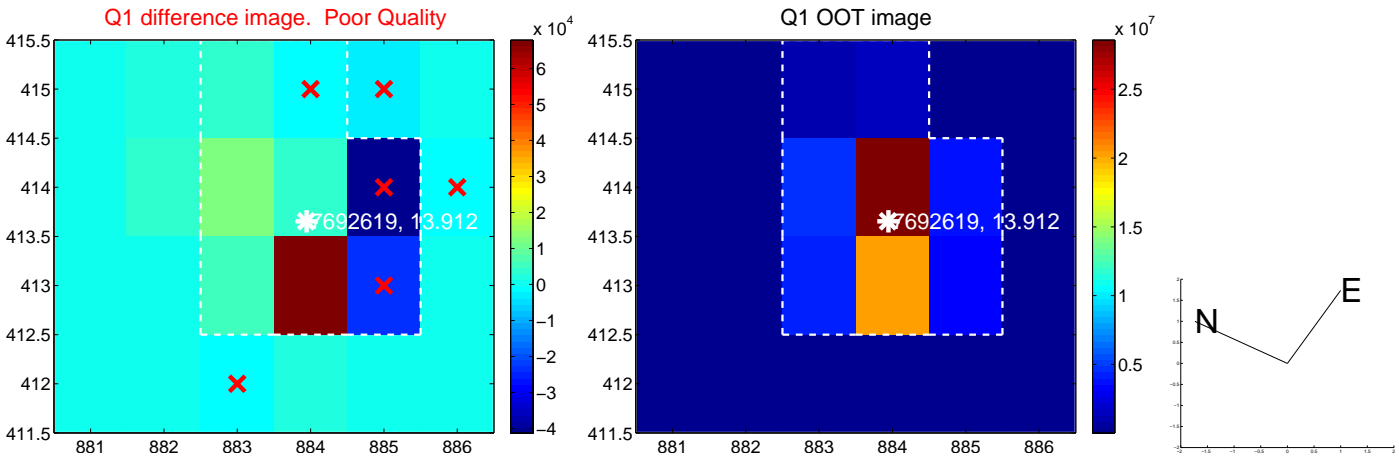
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.220 ± 0.692	1.76	-1.186 ± 0.673	0.285 ± 0.229
PRF-fit source offset from KIC position	1.333 ± 0.694	1.92	-1.306 ± 0.677	0.264 ± 0.233
photometric centroid source offset	—	—	—	—

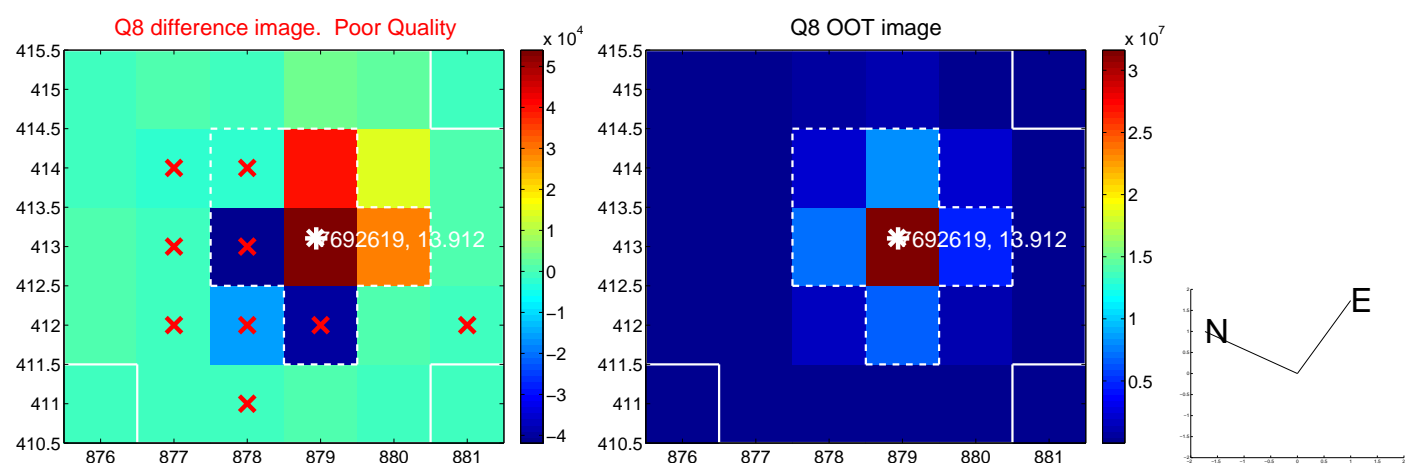
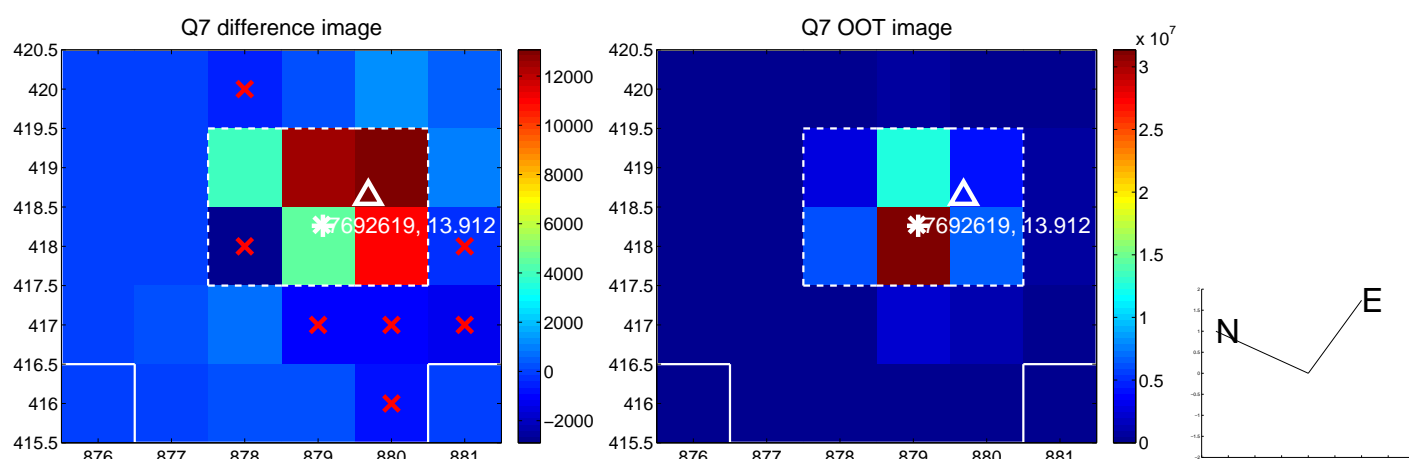
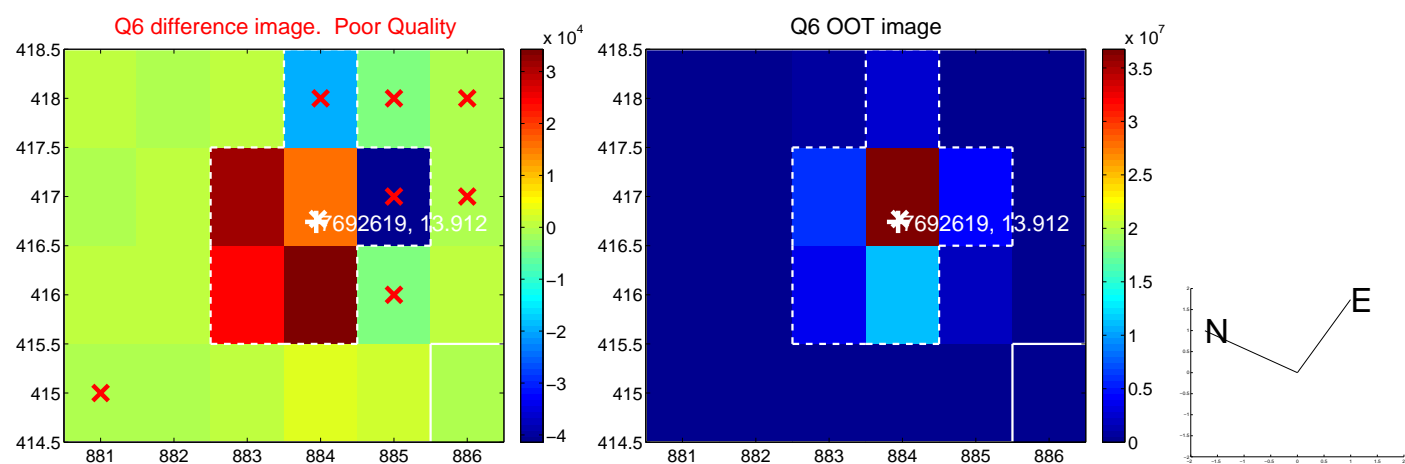
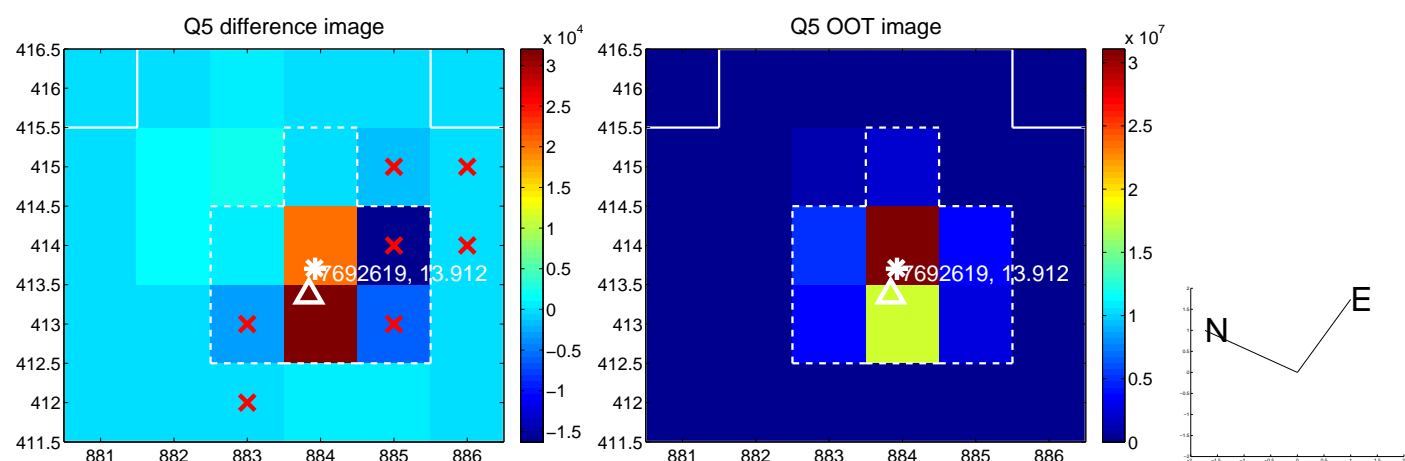


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

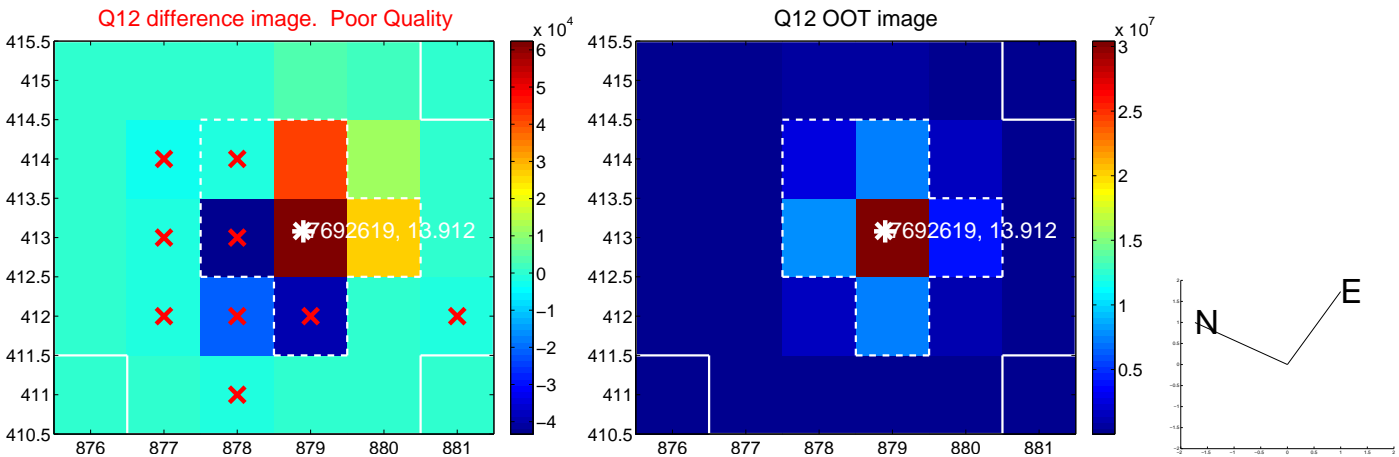
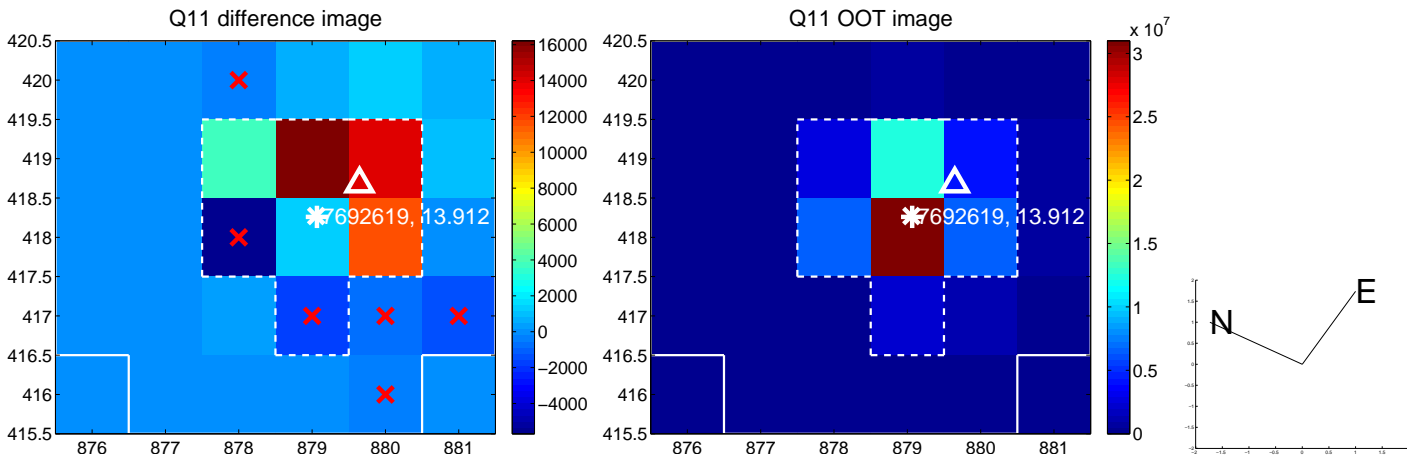
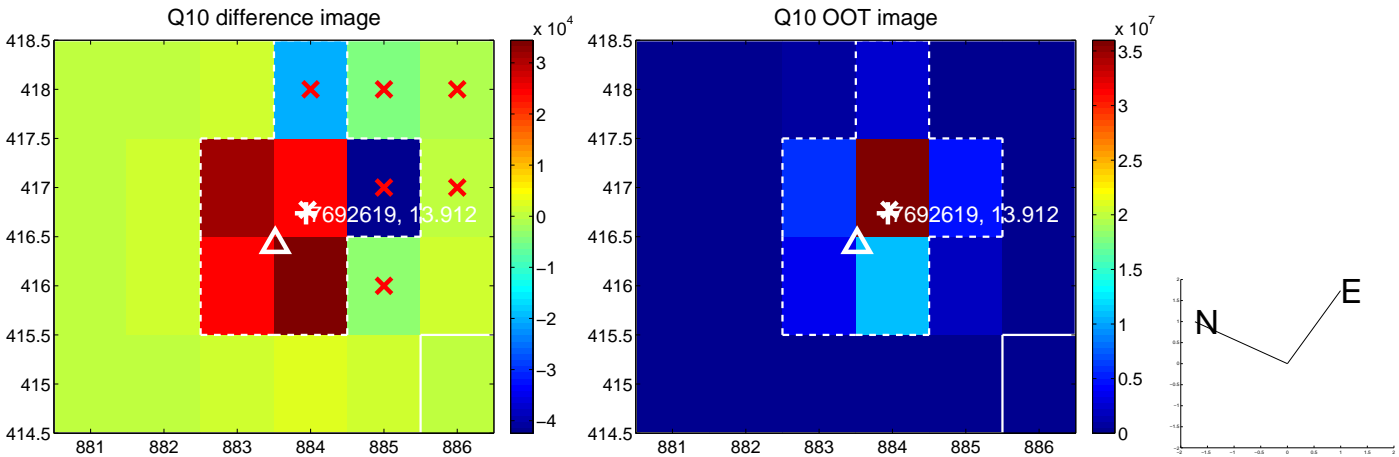
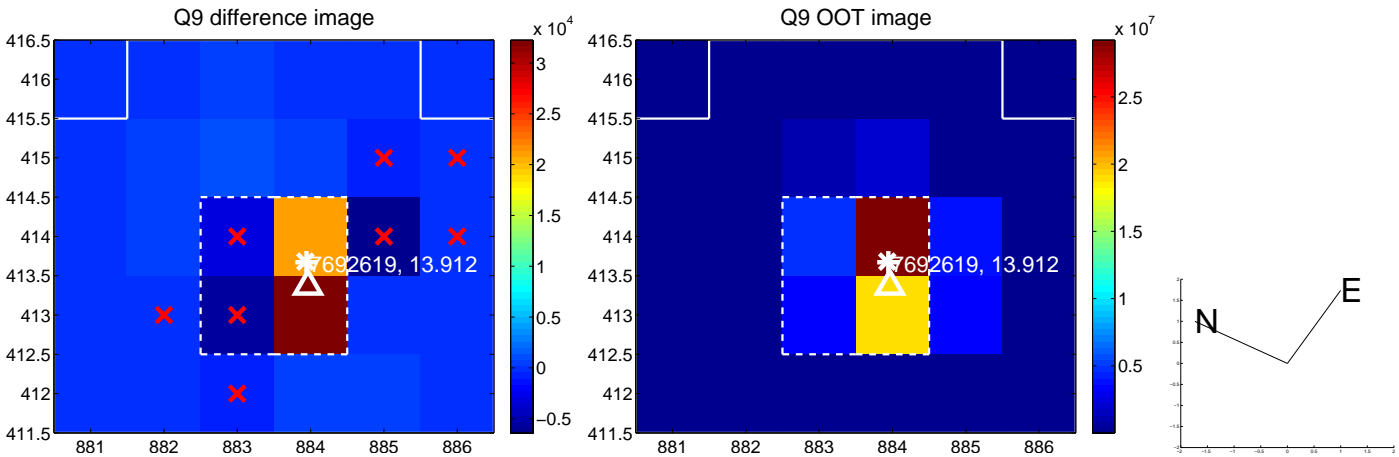
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



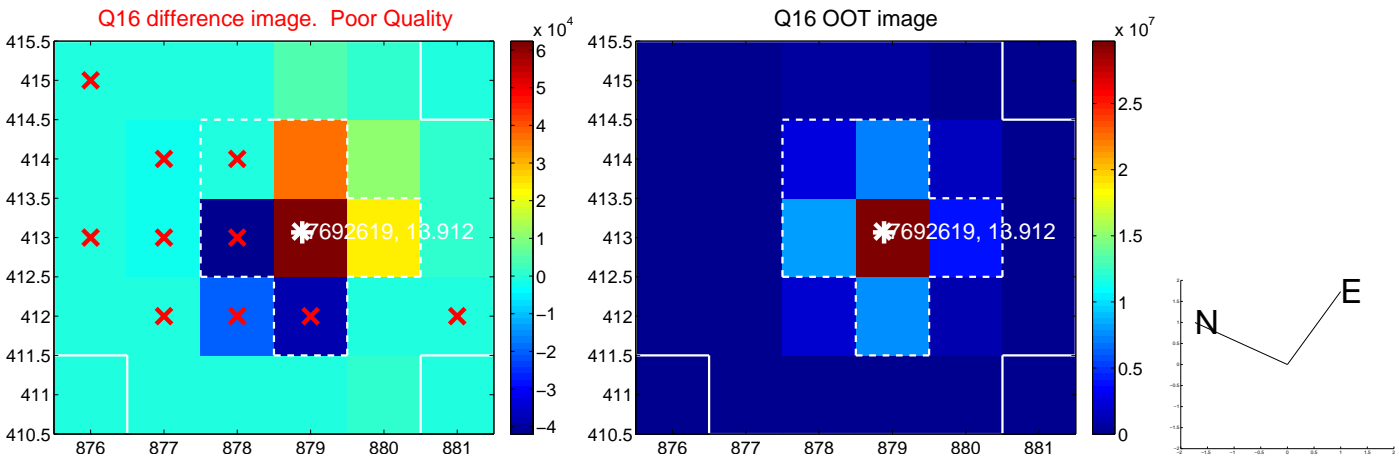
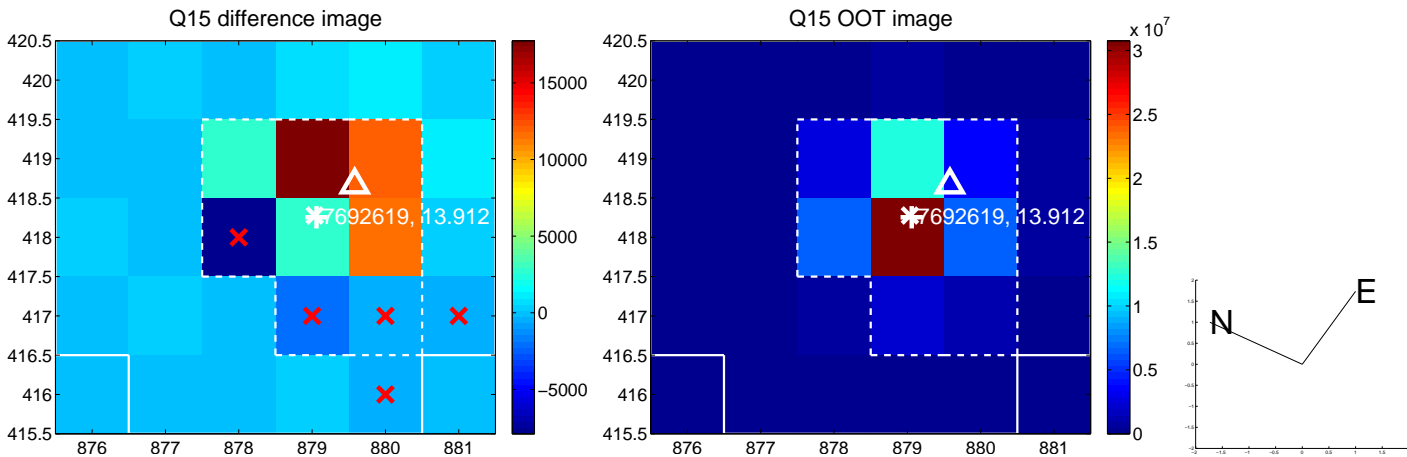
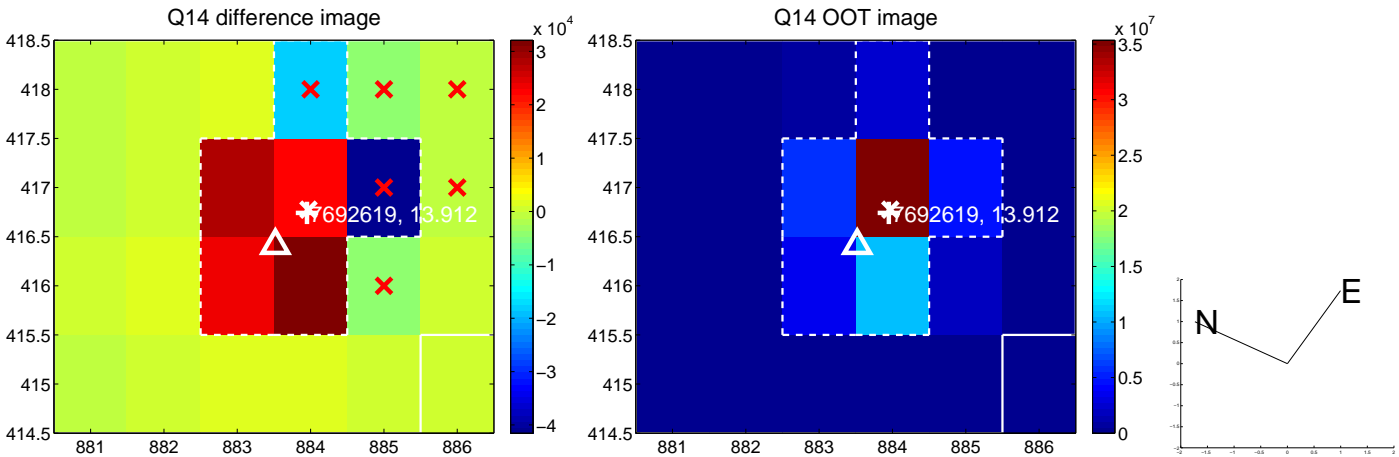
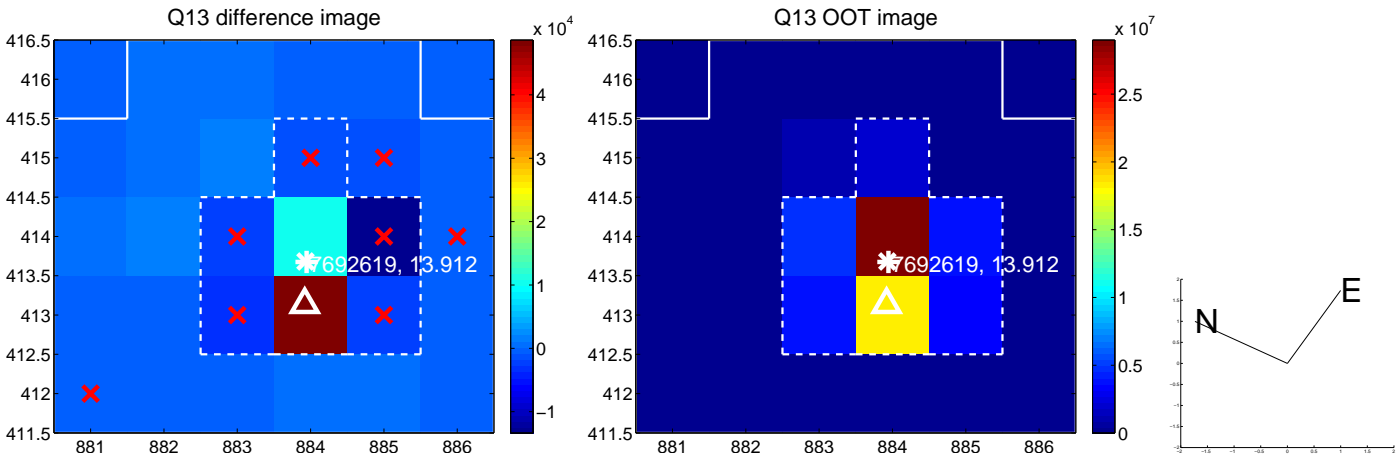
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



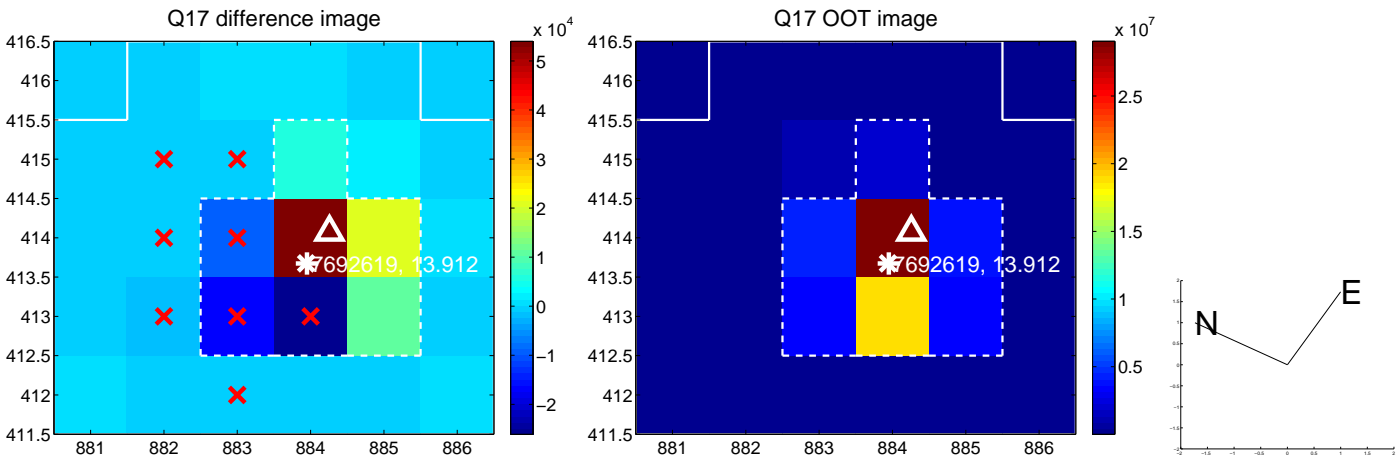
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

