Estimation of the number of clusters with SHIPS (Model M1). Representation of the criterion used to determine the estimated number of clusters $crit(k) = Gap(k) - Gap(\tilde{k}) + s_{\tilde{k}}$. The estimated K is the smallest k such as $crit(k) \geq 0$.

The black line represents the criterion and the red line the 0 threshold.

The first replicate was used to produce this plot.