



FIGURE S1.— The distance between a peak of the landscape of the statistic and the selective sweep locations. In the history of the population two selective sweeps have occurred recently, at different time points and different locations on the chromosome. The selective sweep locations are illustrated as $s1$ and $s2$ (vertical lines). Given a user defined threshold, the landscape of the statistic is split in two regions, *i.e.* above and below the threshold. A peak is defined as the maximum point in an isolated (by the threshold) region. Thus, 5 peaks (a to e) have been formed. The distance $D(s2, a)$ of the ‘a’ peak measures the distance between this peak and $s2$ which is the closest sweep location from this peak.