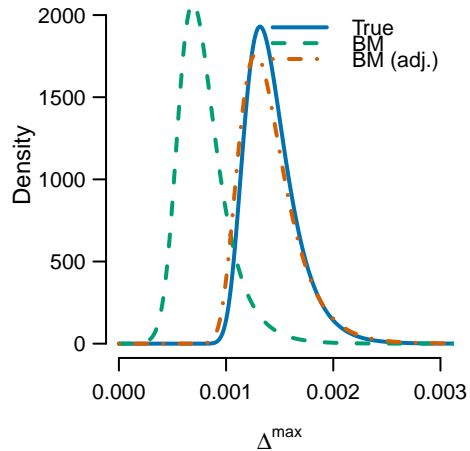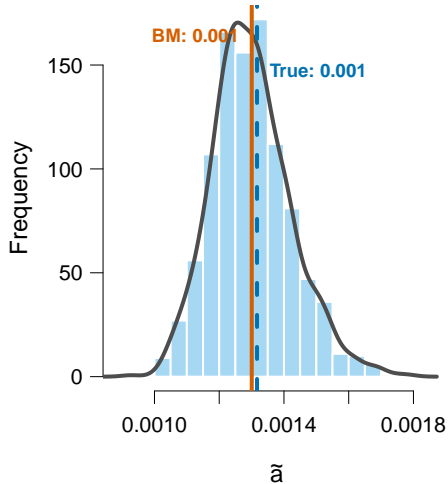**(a) Average Gumbel Densities**   **(b) Location Parameter ã**   **(c) Scale Parameter b**