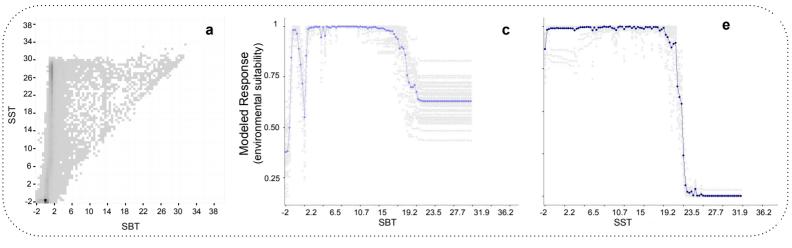
Response curves and distribution of Atlantic cod

→ Geographical versus Ecological pseudo-absences







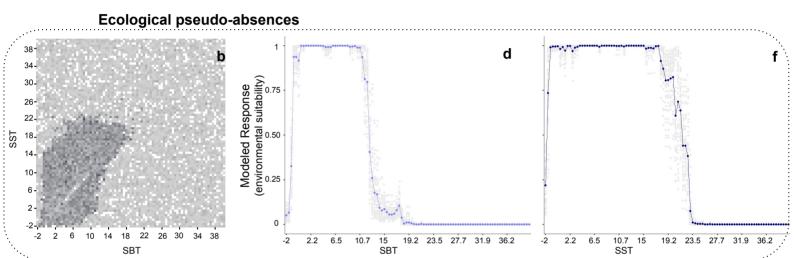


Figure 1. Distribution of geographical (a) and ecological (b) pseudo-absences for Atlantic cod using Sea Bottom Temperature (SBT, x-axis) and Sea Surface Temperature (SST, y-axis) with a resolution of every 0.25°C. Modeled responses (response curves) to SBT (pale blue, middle panels, c,d) and SST (dark blue, right panels, e,f) for the Atlantic cod using geographical (c,e) or ecological (d,f) pseudo-absences and processed species occurrences (see Figure 3).

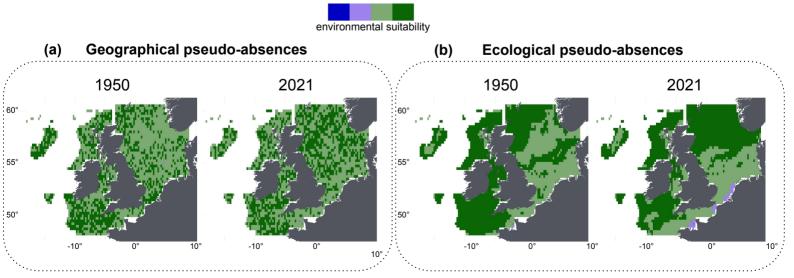


Figure 2. Comparison of the modeled spatial distribution (environmental suitability) of the Atlantic cod in 1950 and 2021 using (a) geographical and (b) ecological pseudo-absences. For projections and both types of pseudo-absences, we selected the best Random Forest (RF) models with a pseudo-absence-to-presence ratio of 1/10. Ecological pseudo-absences (right panels) were generated using the inside/outside approach and the Freedman-Diaconis formula