

Figure S1: habitat preference

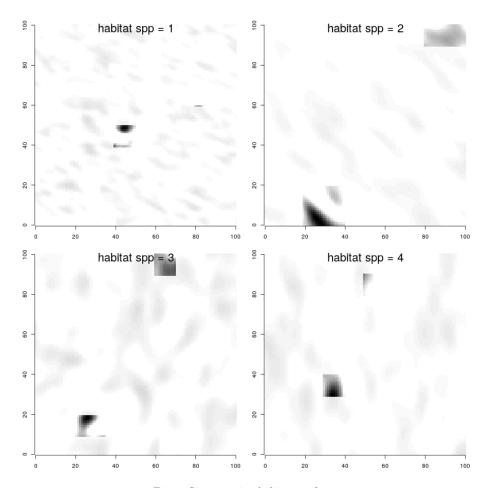


Figure S2: spawning habitat preference

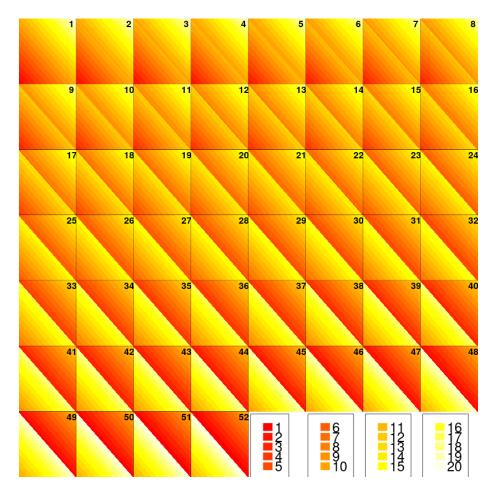


Figure S3: Spatiotemporal temperature gradient

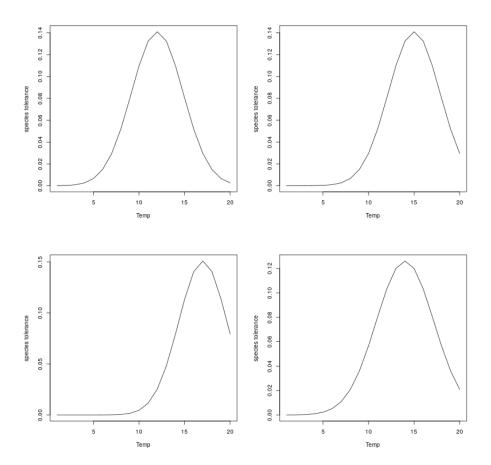


Figure S4: Species thermal tolerances

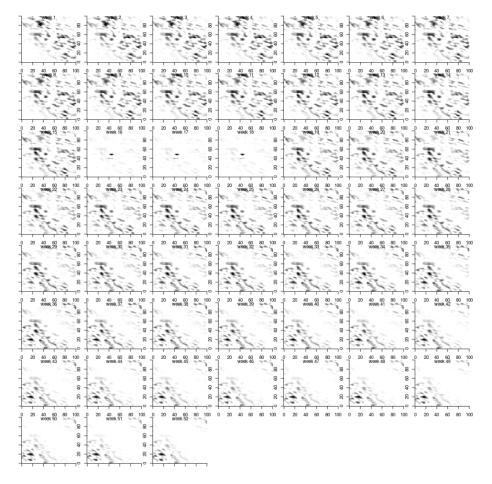


Figure S5: Spatiotemporal habitat suitability - population $1\,$

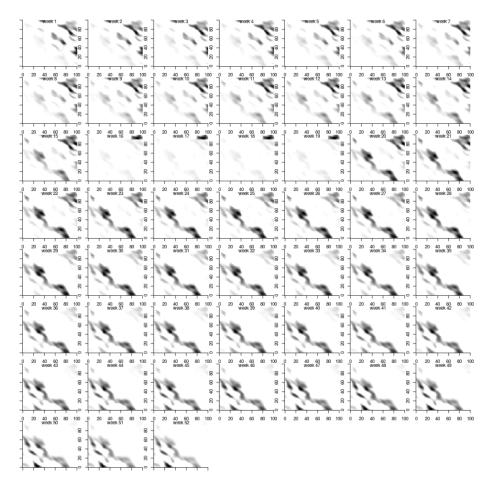


Figure S6: Spatiotemporal habitat suitability - population $2\,$

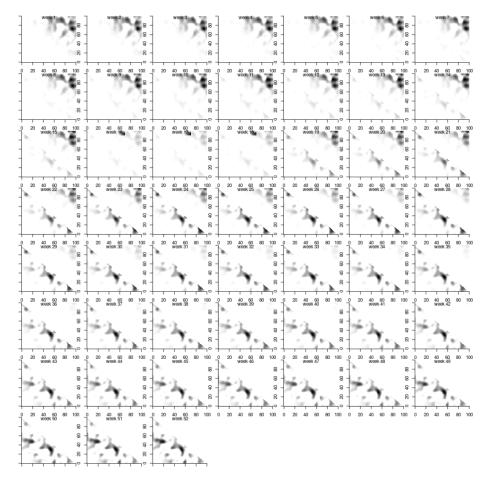


Figure S7: Spatiotemporal habitat suitability - population 3

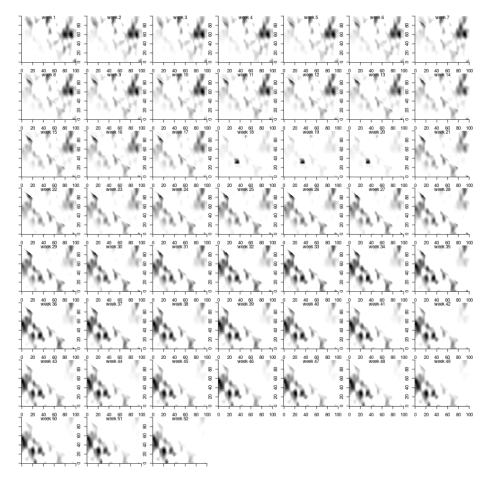


Figure S8: Spatiotemporal habitat suitability - population 4

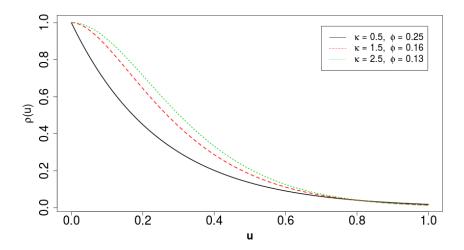


Figure S9: Example of different implementation of the Matern correlation function on auto-correlation distance $\frac{1}{2}$