

## Spatial evaluation of the Natura 2000 network for the protection # 113 of species of community interest in the Bay of Biscay

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The global loss of biodiversity due to anthropogenic threats and climate change affects ecosystem functioning and reduces the provision of ecosystem services and, thus it is urgent to implement networks of ecologically coherent marine protected areas (MPAs). In Europe, the Birds Directive (2009/147/EC) and the Habitats Directive (92/43/EEC) constitute the basis for the designation of protected areas and the convergence between both Directives constitutes the Natura 2000 Network.

OBJECTIVE

To conduct a spatial evaluation of the Natura 2000 network in relation to the conservation of species of community interest in the Spanish North Atlantic marine subdivision





2000

## with the fin whale (BALPHY):

- By overlapping Natura 2000 sites with the averaged abundance (2013-2019), we evaluated the proportion of the population in each Natura 2000 site (adequate > 20% of population).
- The existing Natura 2000 network adequately protected species from shelf habitats (Balearic and Manx shearwaters), while it was not suitable for the protection of oceanic species (fin whales, bottlenose dolphins and Cory's shearwaters).





• Defined critical areas using the highest 40% of the abundance for the 2013-2019 density average. • BALPHY critical areas were found in the oceanic area of the Spanish North Atlantic subdivision.





- BALPHY density was globally higher in the oceanic area of the southern Bay of Biscay.
- Density showed high inter-annual variability: minimal in 2013, 2014, 2019 while maximal in 2016 and 2017.

Con el apoyo de la Fundación Biodiversidad, del Ministerio para la Transición Ecológica y el Reto Demográfico

