

Showcasing EU BON's digital products

Communicating products clearly to users and decision-makers

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How do we get from science to policy?



EU BO



Digital science and decision-support tools

Yoni

B

Possible climate change impact on bony fish diversity in Large Marine Ecosyst

DECISION-SUPPORT TOOL

Overview

AquaMaps is an approach to generating moc occur naturally. The modelling approach use to estimate species tolerances with respect t ice concentration and distance to land, as g probabilities of species occurrence, are gen local environmental conditions to determin probabilities are illustrated through colorfongitude cell resolution. And now, with futu climate change on global distribution of mai IPCC A2 emissions scenario for the years 2

This tool shows predictive species richnes Europe for the current period, 2050 and 210 change in species richness in by the years 2



The North Sea has about 412 had degree cold in its production, co There are currently 194 online openion of body febras reported from suitable radiation of environmental conditions in the area

Figure 1. Tool on possible climate change is bony fishes in the North Sea. Shown are t richness predictions for the years 2050 and consider species with >50% probability of od



WCMC



Alpha adjusted SDMs -Accounting for biotic interaction in species distribution models

Overview

Species distribution models (SDMs) predict the potential distribut characteristic tince-resolution environmental conditions in which the spignore the potential effects of biolic interaction on species distribution. SDMs **Probability of Occurrence (POO)** for a focal species is not a the site can support (alpha diversity) and by the suitability of the sites suitability to other species. To account for these biolic Interactions, to SDM, which adjusts the POO of all species in all sites based on the relative POO of the different species. Thus, the alpha-adjusted POO than that of the original SDM where the site can support high alpha di is high relative to other species' POOs. The alpha-adjusted SDMs a simultaneously.



Figure 1. Main workflow for SDMs and alphn-adjusted SDMs. Presen in multiple sites alongside abiotic variables are used to train an SC occurrence (PoO) maps. The P/A data are also used to estimate a situ alpha diversity model. The SDMs POO and the predicted alpha diversity alpha-adjusted model to produce the adjusted PoO each species in ea the adjusted PoO can then be used to assess performance at the sp after applying a threshold to produce binary P/A maps (eg., TSS). S P/A maps over all species in a given site radicts the tisk's alph

Expected advantages

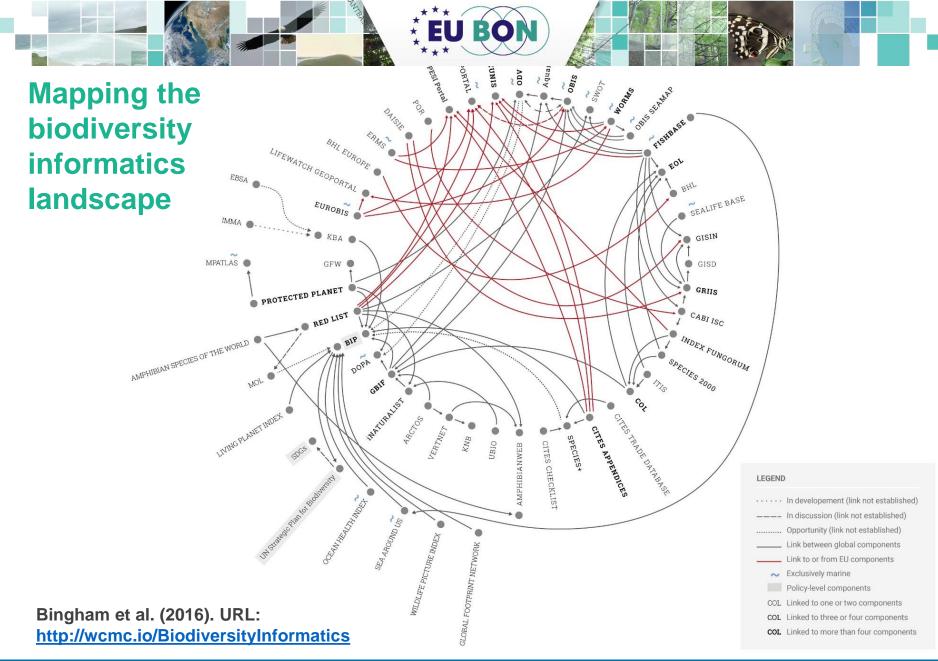
- Increased accuracy: some species will not occur in suitable by other species. On the other hand, some sites that see occupied since the species is more suited to the site's condit alpha-adjusted model accounts for these issues.
- 2. Predicted alpha diversity: the model predicts the expected number or species at each s

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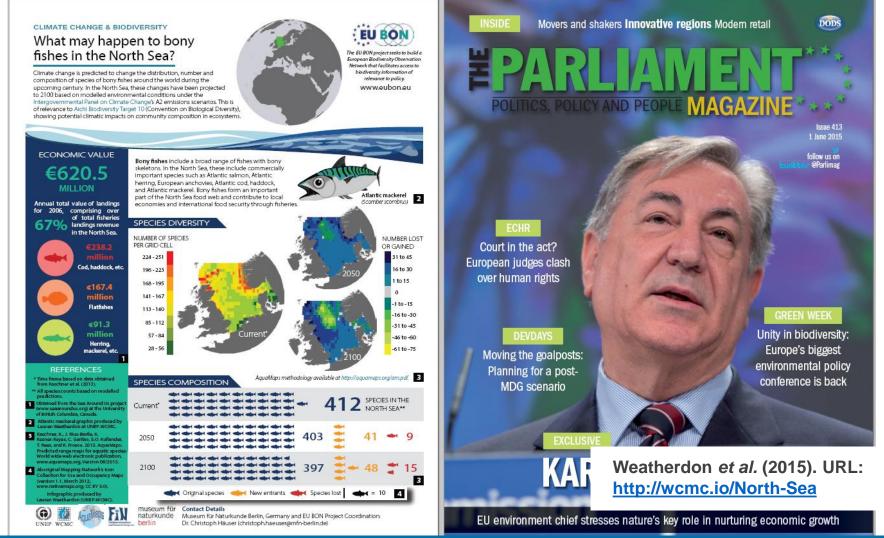
GeoCAT (geocat.kew.org)

UNIVERSITY OF LEEDS





Infographics explaining product's links with policy



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EU BON's contributions to policy instruments

EU BON's contributions towards meeting Aichi Biodiversity Target 19

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The EU BON project seeks to build a European Biodiversity Observation Network that facilitates access to policy-relevant biodiversity information.

www.eubon.eu

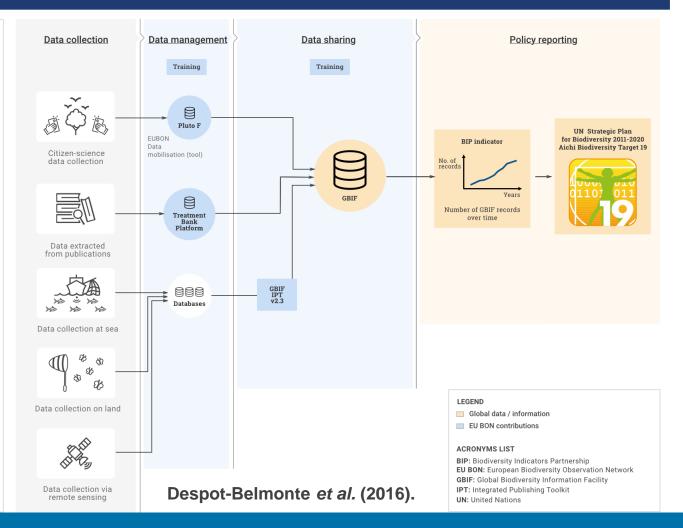
Summary

EU BON has developed and refined pre-existing tools for the integration of biodiversity data. This work contributes towards the achievement of global conservation targets of the Convention on Biological Diversity (CBD) ; for example Aichi Biodiversity Target 19 "By 2020, knowledge, the science base and technologies relating to biodiversity, its values, functioning, status and trends, and the consequences of its loss, are improved, widely shared and transferred, and applied" (UN Strategic Plan for Biodiersity 2011-2020).

Citation

Despot-Belmonte K, Doudin M, Martin CS, Groom Q, Wetzel F, Agosti D, Jacobsen K, Smirnova L, Weatherdon LV, Robertson T, Hoffmann A, Mac Sharry B, Shennan-Farpón Y (2016). EU BON's contributions towards meeting Aichi Biodiversity Target 19.





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