

The European Biodiversity Portal

An ideal partner for biodiversity policy and science

What is the European Biodiversity Portal?

The European Biodiversity Observation Network (EU BON) is a collaborative research project, funded by the EU's 7th Framework Programme, whose main goal is to provide the European contribution to the Group on Earth Biodiversity Observation Network (GEO BON). GEO BON aims to contribute to effective management policies for the world's biodiversity and ecosystem services. It is the biodiversity component of the Group of Earth Observation System of Systems (GEOSS).

The **European Biodiversity Portal** is an online platform, which facilitates the delivery of relevant biodiversity information and analysis to a range of end users (including researchers, policy-level users and other biodiversity stakeholders), thus supporting the biodiversity science and policy interface. The Portal provides easy access to insights in biodiversity trends

and modelling, through visualisation modules and infographics.

Which functionalities does the European Biodiversity Portal provide?

The Portal is an access point to evidence-based solutions and decision-support tools, enabling next-generation data management and the use of biodiversity information at national and regional levels. For example, the Portal can be used to identify data sets relevant to Essential Biodiversity Variables (EBV). Forecasting and the development of early warning systems will be facilitated by EBVs, aiding policy makers to develop evidence based conservation strategies. Visualisation of the status and trends of EBV candidates such as "Species distribution" and "Species abundance" are facilitated using the Spatial Dataset Browser and the Species Population Trend Browser, respectively.

services

Services and tools available to ease data sharing and further analysis

Latest news

Product list display template

The Eubon product list (Beta at the moment) is available at the portal on the product section. This list provide information about all the products like name, description, status, etc., and...

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Data warehouse database design

Data warehouse database design We are creating a first version of the new data warehouse database design. We have used best practices about that, like create technical key field...

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Launch of the EU BON Biodiversity Portal

The EU BON project is happy to launch today its new portal. The aim is to offer a unique service for analysing and understanding biodiversity change. For instance, users can explore how relative...

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New team member

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EU BON Project Site



EU BON eLab



Featured Products



AquaMaps for EU BON Interface

Explore and download data for modelled species distributions of European marine and freshwater species.



Hierarchical RandomForest Habitat classification

A habitat classification tool that accounts for the hierarchical structure of habitats



Fourier transform

Uses remotely-sensed landscape fragmentation data for monitoring ecosystem condition (e.g., extent of deforestation, forest degradation).



Roadmap to SDM

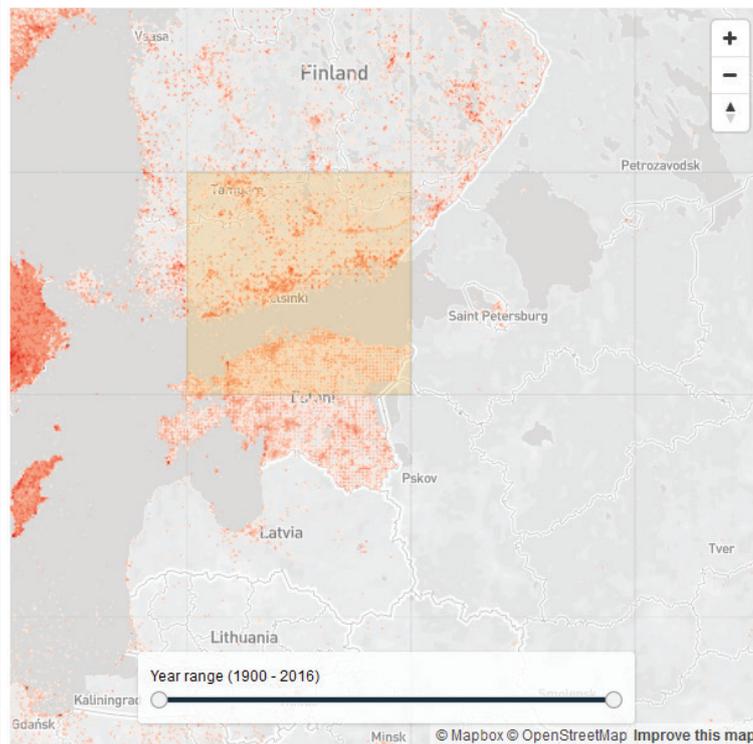
Summarises, in a visual way, the various steps

Screenshot of the European Biodiversity Portal.

Other analytical interfaces include the Species Richness Tool and the Business Analytics Dashboard, which offers charts and aggregated data. Via the virtual laboratory, eLab, researchers can work on the same project, share documents and use the same web interface while accessing a set of tools offered as Software as a Service in an elastic cloud environment, which also ensures the data privacy inside each eLab. GeoServer, RStudio and other analytical tools can be deployed as Docker containers, thanks to an OpenShift environment and an OpenStack Hybrid cloud.

Other functionalities accessible through the Portal include a Dataset Search Tool and the EU BON Product¹ and Document Repository, which is searchable by target audience and keywords. Additionally, specific child websites are available, such as the Citizen Science site, dedicated to provide information, tools and guidelines for citizen scientists; and also websites for the EU BON test sites, which include data, geospatial layers, results and specific use cases where EU BON tools were applied in a testing site.

¹ A full list of EU BON products can be downloaded at: http://wcmc.io/EUBON_Products



Spatial Dataset Browser helps to identify and access datasets of interest when generating Essential Biodiversity Variables (EBVs) for species distribution.

Who is the target audience?

The European Biodiversity Portal was built by ICT professionals for key stakeholders in the European biodiversity science and policy interface. It aims to facilitate easier access to multiple biodiversity (meta) data warehouses and encourages data mobilization using best-practice standards.

- The unique combination of user-friendliness, state-of-the-art research analytics and informative visu-

alisation modules, make the European Biodiversity Portal an ideal partner for **policy-makers**, strengthening the political commitment to biodiversity monitoring and conservation in Europe.

- The various toolboxes assist **scientists and data managers** to upload and publish their data, helping to close knowledge gaps and increase the taxonomic, geographic and historic coverage and accuracy of trend forecasting and status evaluations for European biodiversity.

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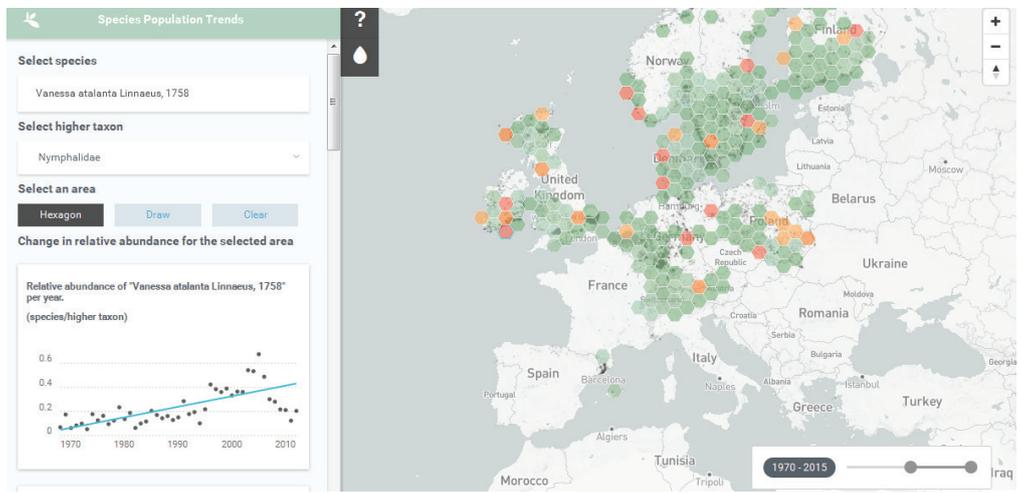
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Designed by 



Species Population Trend Browser helps to analyse species trends in GBIF mediated data. Example: the butterfly species ‘Red Admiral’ *Vanessa atalanta*, green: increasing populations, red: declining.

Why is the European Biodiversity Portal important?

As a gateway to European biodiversity information, the Portal connects a vast number of biodiversity data repositories to capture an exceptional level of coverage in biodiversity data. Users can harvest and simultaneously access data from several directories, including Global Biodiversity Information Facility (GBIF), Long-Term Ecological Research Network (LTER), EU-wide monitoring methods and systems of surveillance for species and habitats of community interest (EuMon), the Pan European Species directories Infrastructure (PESI), which provides taxonomic information on species, and Global Earth Observation System of Systems (GEOSS) sources, making the fragmented data more useful and providing a more precise account of the current state of biodiversity status and trends. The analytical tools interface allows insights into the complexity of biodiversity information, whilst delivering synthesised, actionable facts and insights, illustrated by informative graphic content.

What is the policy impact of the European Biodiversity Portal?

The **Aichi Biodiversity Targets** of the United Nations Strategic Plan for Biodiversity (2011-2020) recognise the importance of improved access to knowledge, the science base and technologies relating to biodiversity. The European Biodiversity Portal is a contribution to Aichi Target 19, which specifies the need to increase the amount and quality of relevant biodiversity information and tools at the disposal of policy-makers and the general public.

Building on the Millennium Development Goals, the 17 **Sustainable Development Goals** (SDGs) were adopted by countries at the United Nations General Assembly in 2015 and officially came into force on January 1st 2016. Jointly, SDG 14 (“Life below water”) and SDG 15 (“Life on land”) aim to conserve and sustainably use ocean and land resources (such as fisheries and forests), combat desertification, halt and reverse land degradation, and halt biodiversity loss. The implementation of both SDGs depends on the availability and accessibility of comprehensive, sound and up-to-date data and information: this is where the European Biodiversity Portal aims to contribute.