

LifeWatch Greece

www.lifewatchgreece.eu

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LifeWatch Greece is one of the national nodes composing LifeWatch ERIC, the e-Science European Infrastructure consortium providing data resources, web services and Virtual Research Environments (VRE) to biodiversity and ecosystem research.

Greece is located at the Eastern Mediterranean Sea with 16,500 km of coastline, more than 9,800 islands and rock islets, and more than 53 mountains. It is one of the biodiversity hot spots among European countries in regard to both the number of species and the range of habitats. The LifeWatchGreece Research Infrastructure is funded by the Greek General Secretariat of Research and Technology and is coordinated by the Institute of Marine Biology, Biotechnology and Aquaculture of the Hellenic Centre for Marine Research, in conjunction with 47 associated partner institutions.

A series of e-Services and virtual Labs (vLabs) have been developed which aim to support potential needs regarding the mobilisation, analysis and sharing of biodiversity datasets, not only for the scientific community, but also for the broader domain of biodiversity management and policy-making.



What we do



RvLab

RvLab supports an integrated and optimised online R environment, allowing a set of functions to run on clusters or grids, in order to support large-scale computational and modelling activities to be run in parallel by multiple clients.



Micro-CT vLab

Micro-CT tomography results in the creation of 3D models of objects using X-ray projection images. The Micro-CT vLab offers a collection of virtual galleries of taxa that allow the user to manipulate 3D models online.



MedOBIS

The Mediterranean node of Ocean Biogeographic Information System (IOBIS) vLab provides reliable and quality controlled marine species datasets, metadata and satellite data from all over the Mediterranean Sea

In the spotlight

LifeWatchGreece fulfils its vision to establish the biodiversity Centre of Excellence for South-eastern Europe by:

- a) allying all the Greek scientific human potential working on biodiversity data and data observatories;
- b) paving the way for the development of complex virtual domains through a number of background e-Services;
- c) developing a number of virtual labs (vLabs);
- d) building capacity at the national level through a network of activities; and
- e) disseminating information, scientific knowledge and experience gained to the public.

Furthermore, a LifeWatchGreece Special Collection was published in the Biodiversity Data Journal, describing the development of the relevant electronic infrastructure and software applications, a series of taxonomic checklists compiled under the Greek Taxon Information System, as well as a section of data papers presenting historical and original datasets of environmental and biodiversity data.


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 www.lifewatchgreece.eu

 [@lifewatchgreece](https://twitter.com/lifewatchgreece)

 facebook.com/lifewatchgreece

 info@lifewatchgreece.eu

 +30 2810337741

 Institute of Marine Biology,
Biotechnology & Aquaculture
- Hellenic Centre for Marine Research,
Thalassokosmos, Former US Base at Gournes, Heraklion,
Crete, 71500, Greece

LifeWatch ERIC

 www.lifewatch.eu

 [@LifeWatchERIC](https://twitter.com/LifeWatchERIC)

 facebook.com/ERICLifeWatch

 info@lifewatch.eu

 Plaza España SN, SECTOR II-III
41013 Seville
Spain)