LIST OF THE DATASETS

Last update: July 8th 2021

Datasets are considered to be part of the main database that will be used for the challenge IA-BIODIV. They are mostly raw data in text format.

1. Biodiversity oriented data

🐚 **[Reef Life Survey](RLS): Global reef fish dataset** [Original metadata](#)
Temporal coverage : 2011-2020
Taxonomic coverage : Reef fish

🐚 **GBIF Data :** Mediterranean Region https://doi.org/10.15468/dl.4edtw7
Temporal coverage : 1835 - 2021
Taxonomic coverage :
 421587 Animalia / 9525 Archaea / 391958 Bacteria / 385087 Chromista / 52346 Fungi /
68374 incertae sedis / 1971924 Plantae / 30511 Protozoa / 1323 Viruses

🐚 **INPN Data** Through [OpenObs](#)
Temporal coverage : 1700 - 2020
Taxonomic coverage : 359763 Animalia / 1465   Bacteria / 87850 Chromista / 382 Fungi /
53197 Plantae / 2184 Protozoa

🐚 **SEAMAP Turtle**

Temporal coverage : 1993-2021
Taxonomic coverage ---- Mainly turtles and some fishes

🐚 **LTER Northern Adriatic Sea (Italy) marine data**

Temporal coverage : 1965 – 2015
Attributes / variables : pH / oxygen / NH3 / NO2 / NO3 / PO4 / Chla / Pheo / Diato / Dino /
Flag / Cocco / Phyto TOT/ Zoo

🐚 **Rephy**, sous-partie de Phytobs SNO (récupéré à partir de SEANOE)
Temporal coverage : 1987 - 2019
Attributes / Variables: Phytoplankton and Hydrology in coastal waters

🐚 **Tara** 2014 Mediterranean expedition
Data related to this article : https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5507172/
Temporal coverage : 2014
Taxonomic coverage : bacterial and archaeal genomes

🐚 **SEANOE**
- o **Species richness, abundance and biomass data for assessing fish spillover from Mediterranean Marine Protected Areas** https://doi.org/10.17882/74396
  - ▪ Keyword(s): fishes, species richness, abundance, biomass, underwater visual counts, exportation, marine protected areas, Mediterranean Sea
  - ▪ Geographic coverage
    - • 6 points in Mediterranean Sea
- o **Seasonal and plant-part isotopic and biochemical variation in Posidonia oceanica** https://doi.org/10.17882/58034
  - ▪ Temporal coverage
    - • 03-2012 to 11-2012
  - ▪ Geographic coverage
    - • bay of Marseilles
- o **Biogeochemical data at a Mediterranean mussel farm, Northern Adriatic Sea** https://doi.org/10.17882/53945
  - ▪ Temporal coverage
    - • 2014 - 2015

- Geographic coverage
  - north-western Adriatic Sea
- **Oceanographic dataset in the Mediterranean Sea collected during the cruise BioArgoMed 2015** https://doi.org/10.17882/51678
  - CTD profiles
  - Temporal coverage
    - 2015
- **Ship-track continuous dataset in the Mediterranean Sea collected during the cruise BioArgoMed 2015** https://doi.org/10.17882/51691
  - Temporal coverage
    - 2015
  - Geographic coverage
    - the whole Mediterranean Sea
- **Stable isotope ratios of eastern Mediterranean deep cold seep fauna** (MEDECO cruise Napoli & Amsterdam mud volcanoes, 2007) https://doi.org/10.17882/76429
  - Temporal coverage
    - 21-10-2007 to 30-10-2007
  - Geographic coverage
    - two deep-sea cold seep ecosystems: the Napoli and Amsterdam mud volcanoes (Eastern Mediterranean, depth range: 1939 - 2152 m)
- **EMSO-Ligure Ouest observatory data** (mooring ALBATROSS) https://doi.org/10.17882/47129
  - CTD-O2 sensors and currentmeters
  - Temporal coverage
    - 2015
  - Geographic coverage
    - Permanent submarine observatory deployed offshore of Toulon, France
- **BIOGEOCHEMICAL dataset collected during the PROSOPE cruise** https://doi.org/10.17882/71723
  - Temporal coverage
    - 4th September -> 4th October 1999
  - Geographic coverage
    - The whole Mediterranean Sea
- **ANTARES observatory data (mooring IL07)** https://doi.org/10.17882/47130
  - Temporal coverage
    - 2007 - 2014
  - Geographic coverage
    - One station
- **Morphological traits measured for 89 fish species sampled in the Mediterranean Sea during MEDITS scientific surveys** https://doi.org/10.17882/41825
  - Temporal coverage
    - 2011 -> 2013
  - Geographic coverage
    - seven Mediterranean areas (South Adriatic Sea, Sardinia, Gulf of Lions, around Cyprus, Mallorca, Tyrrhenian Sea, and North West Ionian Sea)
    - 10 m to 800 m depth
- **Trophic structure of fish assemblages in the Eastern English Channel, the Bay of Biscay and the Gulf of Lions** https://doi.org/10.17882/62264
  - Temporal coverage
    - 2014-2020
  - Geographic coverage
    - Gulf of Lions
- **Willingness to pay to conserve Mediterranean marine fauna (Actinopterygii, Chondrichthyes, Mammalia, Reptilia) in France** https://doi.org/10.17882/75324
  - Temporal coverage
    - 2017 ?
  - Geographic coverage

- The whole Mediterranean Sea
  - **ROCCH SED 2017 data : chemical contaminants levels measured in mediterranean lagoon sediments by the national monitoring network ROCCH in 2017** https://doi.org/10.17882/56395
    - Geographical coverage
      - different French Mediterranean lagoons
    - Temporal coverage
      - 1996-2017 for metallic data and 2017 for organic data
  - **AMOR-Bflux porewater and sediment data** https://doi.org/10.17882/70376
    - Temporal coverage
      - 2015-09-04 -> 2015-09-14
    - Geographical coverage
      - Gulf of Lions, NW Mediterranean
  - **Mediterranean Sea surface CO2 partial pressure and temperature data** https://doi.org/10.17882/56709
    - Temporal coverage
      - 1995-2019
    - Geographic coverage
      - 2 sites in the northwestern Mediterranean Sea

EMODnet Biology

List of the variables extracted from "Full Occurrence Data and Parameters" and on Mediterranean zone: https://www.emodnet-biology.eu/emodnet-data-format#Parameters

KNB A global map of Human Impacts to Marine Ecosystems
https://www.nceas.ucsb.edu/globalmarine. Cumulative human impacts: raw stressor data (2008 and 2013) https://knb.ecoinformatics.org/view/doi:10.5063/F1S180FS

2. Environmental data

Here is a list of examples of what might be used to predict expected *in situ* data. Existing listing of data sources: Free GIS geographic datasets: http://freegisdata.rtwilson.com/

Marine dedicated environmental data

- **Data from SHOM bathymétrie**

- **Coastal zone land cover** https://land.copernicus.eu/user-corner/events/coastal-zones-2013-land-cover-land-use-mapping

- **French resources through Data-Terra research infrastructure**
  - ODATIS **Ocean physics** https://www.odatis-ocean.fr/donnees-et-services/acces-aux-donnees* Copernicus Marine Environment Monitoring Service Providing products & services for all marine applications http://marine.copernicus.eu/
- **Bio-ORACLE Marine data layers for ecological modelling**: http://www.bio-oracle.org/ (R invocation through sdmpredictors::list_layers("Bio-ORACLE", version=2))
- **MARSPEC** monthly layers for **temperature and salinity** (R invocation through paleo: sdmpredictors::list_layers("MARSPEC")) and paleo layers for these (R invocation through paleo: sdmpredictors::list_layers_paleo("MARSPEC")): http://onlinelibrary.wiley.com/doi/10.1890/12-1358.1/abstract

o **Hub'eau Water French related data** (**coastal waters**, Underground waters, surface waters, fishes,…) https://hubeau.eaufrance.fr/

🐾 Climate

o **WorldClim** - **Global Climate Data** http://www.worldclim.org/
o **Copernicus Climate Change Service Providing climate data** http://climate.copernicus.eu/

🐾 Land cover oriented

o **Copernicus Global Land Service Providing bio-geophysical products of global land surface** http://land.copernicus.eu/global/products/NDVI (included **Corine Land Cover** products)
o **CESBIO Land use map**. http://www.cesbio.ups-tlse.fr/multitemp/?p=10104
o **GEONETCast global network of satellite-based data dissemination systems providing environmental data** https://navigator.eumetsat.int/extended?query=&filter=distribution__Download
  - Climate data records
  - Surface albedo
  - Coastlines
  - Earth radiation
  - Evapotranspiration
  - Winds speed at 25 and 50 km over the global oceans