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DTO-BioFlow

Integration of biodiversity monitoring
data into the Digital Twin Ocean

DTO-BioFlow data training
workshop:

Publishing data using the IPT

Concept

“The Integrated Publishing Toolkit (IPT) is a free open-source software used to create and manage distributed data repositories that share biodiversity data into the GBIF network”

Concept

≡ Data repository

≡ Creation of Darwin Core archive files

≡ Creation of data paper templates

≡ Automated data flow with
OBIS/GBIF/EMODNet

≡ Limited to GBIF formats and scope



Find the appropriate IPT instance

≡ Publish on appropriate IPT:

- ≡ Institutional
- ≡ Regional
- ≡ Thematic

≡ List of IPT instances

- ≡ [National/thematic node installations](#) [Regional](#)
- ≡ [cloud-hosted installations](#)

Creating an IPT resource (DwC-A)

≡ Uploading data

≡ Mapping data to Darwin Core

≡ Filling in Metadata

≡ Publishing



≡ .txt, .csv, .xlsx, .zip, DwC-A files
≡ DB connection
≡ URL

≡ Manual to Automated
≡ Allows data modifications

≡ Manual or via EML.xml file

≡ Quality Control checks

Updating an IPT resource (DwC-A)

≡ Uploading new data files

≡ Previously published data + new data

≡ Mapping new data files to Darwin Core

≡ Update metadata

≡ Publishing



When creating data files for an update:

- ≡ Take care with IDs
- ≡ Should be persistent
- ≡ → make sure you can re-generate the same IDs as in the previously submitted dataset when using compound IDs (i.e. the components should be present in your database/data file)

IPT Demo

HOME

Hosted resources available through this IPT

465 resource(s) currently available

Filter:

Logo	Name	Organization	Type	Subtype	Records	Last modified	Last publication	Next publication
	Marine impactful cryptogenic and alien species in the Greek Seas: A georeferenced dataset (1980-2020)	No organisation	Occurrence	--	5,404	2024-04-09 12:00:01	2024-04-09 12:00:11	2024-04-10 12:00:00
	Cryptogenic, Rare and Non-indigenous marine species in the Tunisian coastline in the Mediterranean sea recorded by the Tunisian Ministry of Agriculture, Forestry and Fisheries, TunSea, 2013-2023	No organisation	Sampling event	--	0	2024-04-09 12:00:01	2024-04-09 12:00:01	2024-04-10 12:00:00
	Marine Benthic Ecology Drop-down	No organisation	Sampling event	--	80	2024-04-08 16:57:16	2024-04-08 16:57:16	2024-04-09 12:00:00
	Marine Benthic Ecology Drop-down	No organisation	Sampling event	--	20	2024-04-08 16:57:16	2024-04-08 16:57:16	2024-04-09 12:00:00

Publishing data to the biodiversity repositories

Register resource

① Registration

Resource is not registered and thus not globally discoverable through the GBIF website.

Register

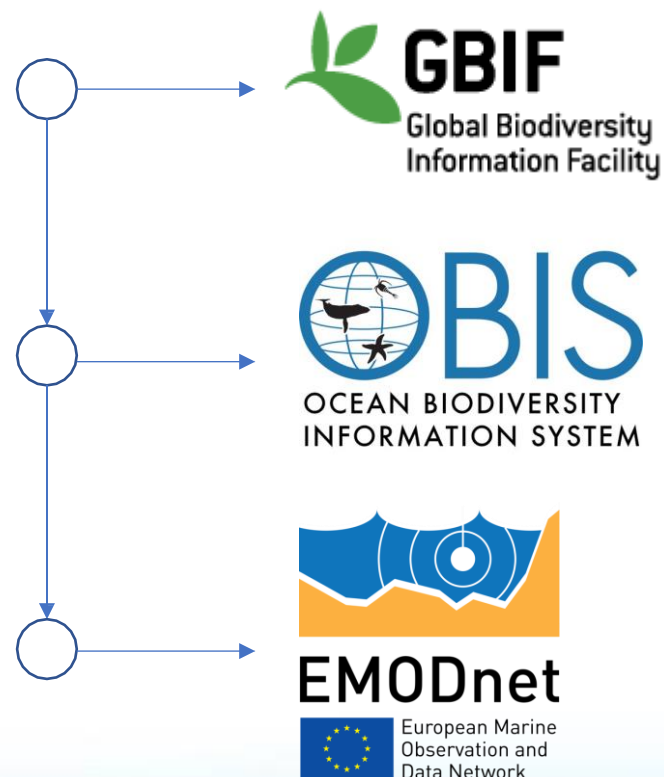
Add the OBIS network

① Networks

No GBIF networks associated with the resource.

+ Add

Notify EMODnet Biology data manager



Relevant sources

≡ [GBIF Integrated Publishing Toolkit \(IPT\) User Manual](#)

≡ [What is GBIF](#)

≡ [IPT Github Repository](#)



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THANKS!