

Making the most of your research data: FAIR data for marine biologists

Syllabus

Day 1

Findable

Lectures: *what does Findable mean?*

- For data, publications, software
- The use of DOIs and other PIDs in making data Findable
- The use of community repositories vs “self” publishing
- The role of metadata in Findability
- Findability by machines

Participatory: *Metadata, Metadata, Metadata!*

Exercises:

- Make a metadata record for a range of datasets

Accessible

Lectures: *what does Accessible mean?*

- Accessibility for humans, developers, clients
- How online repositories make data accessible: APIs and webservice
- How you can make data accessible
- Making publications accessible: open access publications

Exercises:

- Analyse the required and provided accessibility of example data

Day 1 debriefing

- Quiz
- Group discussion

Day 2

Interoperable

Lectures: *what does Interoperable mean?*

- What is it and why should I do it?
- Interoperable for data, metadata, software
- The use of standard vocabularies within datasets
- “Square” spreadsheets
- An example of very interoperable data: EMO BON

Participatory: *Lets make an interoperable dataset together!*

Exercises:

- Making datasets interoperable: depending on the background of the participants, datasets of different types will be used in this exercise

Re-useable

Lectures: *what does Re-usable mean?*

- What is the point of a licence?
- Provenance: making data trustable, traceable, and re-useable
- An example of good provenance: EMO BON

Participatory: *Here is a dataset, what should its provenance include?*

Exercises:

- Creating the provenance metadata for a dataset

Day 2 debriefing

- Quizz
- Group discussion

Day 3 Data Clinic

Fixing your data

For the on-site participants only: you are invited to bring your dataset(s) with you to make FAIR and potentially also publish during this third day of the course. Our various experts from the VLIZ Data Centre will be available to help.

Take-home material

- Exercises will be on run via the OceanTraining platform
- Lecture will be made available on the OceanTraining platform
- Information boxes will be made available on the OceanTraining platform
 - Lists of resources for “doing” FAIRification
 - Flowcharts and checklists for “doing” FAIRification
 - Lists of games/activities for FAIRification

Notes

The exercises and quizzes for on-site and online participants, and the progress in FAIRifying your own datasets for the on-site participants, will be marked to produce a passing certificate for the course.