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

Preliminary Syllabus

Day 1 (onsite and online)

Start

- General introduction
- Round table

Morning:

Findable

Lectures: *what does Findable mean?*

Topics covered:

- Findability for all research outputs
- The use of DOIs and URIs in making data Findable
- The various ways you can publish data
- The role of metadata in Findability
- How can Google find your data?

Interactive session: *Metadata, Metadata, Metadata!*

Afternoon:

Accessible

Lectures*: what does Accessible mean?*

Topics covered:

- Accessibility: what does it mean?
- How online repositories make data accessible: APIs and webservices
- How you can make data accessible
- Making publications accessible: open access publishing models

Interactive session: *What should we, as scientists, do to make our data accessible?*

Day 1 debriefing

Group discussion and a homework quiz

Day 2 (onsite and online)

Start

- Answers to the quiz

Morning

Interoperable

Lectures*: what does Interoperable mean?*

Topics covered:

- What is Interoperable data and why should I care?
- Interoperability for different types of data
- The use of standard vocabularies in (meta)dataset
- "Square" spreadsheets

Interactive session: *Let's make an interoperable dataset together!*

Afternoon

Re-useable

Lectures*: what does Re-usable mean?*

Topics covered:

- What does Re-usable really mean?
- What is the point of a licence?
- Provenance: making data trustable, traceable, and re-useable

Discussion: *What do we really understand about provenance?*

Day 2 debriefing

Group discussion and a homework quiz

Day 3 Morning (onsite and online)

Start

- Answers to the quiz

Data Management Plans

Bringing the F, A, I and R together: how DMPs can help you create and share your FAIR data

Day 3 Afternoon (onsite only)

Hands-on session

Here you will practice what you learned, working together in groups. Topics will be chosen after consultation with the participants and can include

- Making datasets interoperable
- Creating the provenance for a dataset
- Create your own DMP

Fixing your data

You are invited to bring your own data with you, and we will help you make that data FAIR. Alternatively, you may have practical questions about data management at your workplace that you want help with; or you want to start writing your own DMP. Our various experts from the VLIZ Data Centre will be available to help with all your questions.

Take-home material (onsite and online)

- The quizzes will be on run via the OceanTraining platform
- Lectures will be made available on the OceanTraining platform
- Additional information will be made available on the OceanTraining platform
    - Lists of resources for "doing" FAIRification
    - Flowcharts and checklists for "doing" FAIRification
    - Lists of repositories for different types of data, and vocabularies, formats, and standards for different domains of marine science

Notes

The quizzes will be marked to produce a passing certificate for the course.