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

Preliminary Syllabus

Day 1
Start

- General intro

- Round table

Morning
Findable

Topics covered:

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

Interactive session: *Metadata, Metadata, Metadata!*

Afternoon
Accessible

Topics covered:

- Accessibility: what does it mean?
- How you can make data accessible
- How online repositories make data accessible: APIs and webservices
- Open Access publishing models

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

Day 1 debriefing

Group discussion and a quiz to do as homework

Day 2

Start

- Answers to the quiz

Morning

Interoperable

Topics covered:

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

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

Afternoon

Reusable

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 quiz for homework

Day 3

Start

- Answers to the quiz

Morning

Data management plans

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

Interactive session: *Let's write a DMP together!*

Afternoon

Practical exercises

To put into practice what you have learned. A choice of exercises depending on the student's own desires

- Making an interoperable spreadsheet
- Creating the provenance metadata for a dataset
- Write your own DMP
- Choosing terms from controlled vocabularies
- Creating good metadata for your data

Take-home material

- The quizzes will be on run via the OceanTraining platform
- Lectures will be made available from the OceanTraining platform
- Additional information will be made available from the OceanTraining platform

Notes

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