

Overview of ISOS Courses

Hydrodynamic Modelling & My Data - My Publication - My Rights?

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Course

- Tutor: Dr.-Ing. Pushpa Dissanayake¹
- Software used: Delft3D²

Hydrodynamic Modelling

- Modelling local water dynamic, i.e. estuaries or coastal environments
- Very sensitive to temporal forcings
- Requires a high resolution and a comprehensive knowledge of the environmental factors influencing the water flow

¹Coastal Geology and Sedimentology Group Institutes of Geosciences, Kiel University

²<https://oss.deltares.nl/web/delft3d>

Live presentation of Delft3D

Course

- Tutor: Barbara Schmidt³ and Hela Mehrstens⁴
- Publication
 - Publication of articles
 - Funder requirements
- Data
 - Data life cycle
 - Publication of data
 - Data management

³GEOMAR librarian

⁴GEOMAR data manager

Where do I publish?

- **Traditional Journal:** Pay for journal to have access
- **Hybrid:** Open access article in a traditional journal (additional payment for open access)
- **Open Access Journal**⁵: Author pays for publication of the article - everybody has access
- **Second publication right:** Green open access (e.g. final draft in repository - no costs)

Sherpa Romeo⁶

Search engine for publisher policies

⁵Information about open access: <https://open-access.net/>

Directory of open access journals: <https://doaj.org/>

⁶<http://www.sherpa.ac.uk/romeo/>

<u>Traditional (Commercial)</u>	<u>Hybrid</u>	<u>OA</u>	<u>Second publ.</u>
<ul style="list-style-type: none">☹️ Copyright goes to publisher😊 Mostly author only pays for coloured fig.(depends on publisher)☹️ publishing in a traditional journal takes sometimes years☹️ Doesn't meet requirements from funder☹️ Less citations because limited access	<ul style="list-style-type: none">☹️ Double payment: Author pays for OA-option (~3000-5000 (!) Euro per article) and people pay for journal publishing in a traditional journal takes sometimes years☹️ Some funder don't accept Hybrid publications😊 Free access to results of publicly funded research😊 Greater visibility and citation frequency (Evaluation!)	<ul style="list-style-type: none">😊 Author keeps copyright☹️ Author pays for publication (~1500 Euro per article)😊 Free access to results of publicly funded research😊 Greater visibility and citation frequency (Evaluation!)😊 The author can decide which license😊 Article is made public very quickly😊 Good findability via search engines and reference services😊 Open peer-review process😊 Open discussion: the work is immediately published so nobody else can steal your results😊 Meets requirement from funder😊 Often funder refund APCs	<ul style="list-style-type: none">😊 OA immediately or after embargo☹️ => not easy to find out on publishers websites😊 Author pays nothing😊 Meets requirements from funder☹️ Not final publishers version – missing volume and pagenumbers in pdf

The figure was taken from the presentation of the ISOS course “My Data - My Publication - My Rights?” given by Barbara Schmidt and Hela Mehrtens.

Journals

- **Traditional:** Ocean Modelling, Journal of Computational Science
- **Open Access:** Biogeosciences, Geoscientific Model Development

Funder requirements⁷

- Different open access policies of the research funders'⁸
- EU: Open access **mandatory**
- BMBF: **Should be** published on an open-access basis
- DFG: **Should be** published on an open-access basis

⁷Most of the funder refund the APCs (article processing charge) for open access

⁸<http://v2.sherpa.ac.uk/juliet/>

My Data - my duties?

- DFG: Gute wissenschaftliche Praxis (10 years)
- EU: Data pilot, Data management plans
- Helmholtz: data guidelines until end of 2018
- GEOMAR: rules in each working group
- Your Department: examples of best practice

Data management plan

- Key element of good data management
- Making research data
 - findable
 - accessible
 - interoperable
 - and re-useable

Data lifecycle

- Measurement
- Description (Metadata)
- Analysis
- Sharing
- Publication

Data exchange

- Subversion or Git
- PORTAL: <https://portal.geomar.de>
- OSIS: Ocean Science Information System:
<https://portal.geomar.de/osis>
- File systems

Publication of the data

- WHERE:
 - Data centers: PANGAEA⁹, GenBank, ...
 - Other repositories: zenodo¹⁰, dryad¹¹, ...
- WHY:
 - The publisher ask for it.
 - The funder ask for it.
 - Your impact is more visible.
- HOW:
 - Tutorials on <https://portal.geomar.de>

Citation of the data

Cite the data in the article.

⁹<https://www.pangaea.de>

¹⁰<https://zenodo.org>

¹¹<https://datadryad.org>