Course

- Tutor: Dr.-Ing. Pushpa Dissanayake\(^1\)
- Software used: Delft3D\(^2\)

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

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\(^1\)Coastal Geology and Sedimentology Group Institutes of Geosciences, Kiel University

\(^2\)https://oss.deltares.nl/web/delft3d
Live presentation of Delft3D
Course

- Tutor: Barbara Schmidt\(^3\) and Hela Mehrtens\(^4\)
- Publication
  - Publication of articles
  - Funder requirements
- Data
  - Data life cycle
  - Publication of data
  - Data management

\(^3\)GEOMAR librarian
\(^4\)GEOMAR 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**: 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 Romeo**

Search engine for publisher policies

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5 Information about open access: https://open-access.net/
Directory of open access journals: https://doaj.org/
6 http://www.sherpa.ac.uk/romeo/
<table>
<thead>
<tr>
<th>Traditional (Commercial)</th>
<th>Hybrid</th>
<th>OA</th>
<th>Second publ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copyright goes to publisher</td>
<td>Double payment: Author pays for OA-option (~3000-5000 €) and people pay for journal publishing in a traditional journal takes sometimes years</td>
<td>Author keeps copyright</td>
<td>OA immediately or after embargo</td>
</tr>
<tr>
<td>Mostly author only pays for coloured fig. (depends on publisher)</td>
<td>Some funder don’t accept Hybrid publications</td>
<td>Author pays for publication (~1500 € per article)</td>
<td>=&gt; not easy to find out on publishers websites</td>
</tr>
<tr>
<td>publishing in a traditional journal takes sometimes years</td>
<td>Free access to results of publicly funded research</td>
<td>Greater visibility and citation frequency (Evaluation!)</td>
<td>Author pays nothing</td>
</tr>
<tr>
<td>Doesn’t meet requirements from funder</td>
<td>The author can decide which license</td>
<td></td>
<td>Meets requirements from funder</td>
</tr>
<tr>
<td>Less citations because limited access</td>
<td>Article is made public very quickly</td>
<td></td>
<td>Not final publishers version – missing volume and pagenumbers in pdf</td>
</tr>
<tr>
<td></td>
<td>Good findability via search engines and reference services</td>
<td></td>
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</tbody>
</table>
Journals

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

Funder requirements

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

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7 Most of the funder refund the APCs (article processing charge) for open access
8 [http://v2.sherpa.ac.uk/juliet/](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: PANGAEA\textsuperscript{9}, GenBank, \ldots
  - Other repositories: zenodo\textsuperscript{10}, dryad\textsuperscript{11}, \ldots

- **WHY:**
  - The publisher asks for it.
  - The funder asks for it.
  - Your impact is more visible.

- **HOW:**
  - Tutorials on \url{https://portal.geomar.de}

Citation of the data

Cite the data in the article.

\textsuperscript{9}\url{https://www.pangaea.de}
\textsuperscript{10}\url{https://zenodo.org}
\textsuperscript{11}\url{https://datadryad.org}