AQUATIC DATA
Open access journal to share, discover and reuse marine & freshwater data

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DESCRIPTION

Aquatic Data is an open access journal that publishes peer-reviewed articles describing research data from fundamental and applied research, as well as citizens’ involvement in the field of aquatic sciences.

We publish three novel publication types: Data in Context Articles are the perfect companion to books, journal articles, presentations, or posters that contain research data. They are short and include a preformatted table that characterises your data. Please use our Data in Context Article template; Data in Focus Articles bring together and harmonise collections of research data from already published and unpublished sources. They are more detailed and include statistical distributions of data. Please use our Data in Focus Article template; Data Perspective Articles highlight the latest initiatives, tools and opportunities that may improve data sharing, discovery and reuse in aquatic sciences. They are short review type articles. Please use our Data Perspective Article template.

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Research data refers to the results of observations or experimentation that are necessary to validate research findings, including raw and processed data, video, code, software, algorithms, protocols, and methods.

Aquatic Data is the place to publish your research data describing: Pelagic, deep sea, benthic, coastal and shore habitats; Oceanic, shelf, estuarine, brackish, freshwater river and lake systems; Interactions with ice, land and atmosphere systems, and global climate.

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curation services for environmental data. **INSDC** offers advanced curation services for nucleotide sequence data.

**Contextual data** improves sharing, discovery and reuse of your research data. Aquatic Data enriches them with FAIR (Findable, Accessible, Interoperable, Reusable) contextual data. The Article templates include an Excel file that we ask you to fill as best as you can and to submit along with the manuscript. The editorial team will assist you in improving your contextual data and will generate corresponding tables online. The costs of this service are currently included in the open Access fee.

Contextual Data comprises the following 7 components: **Environments** provide a list of geographic places, political and economic zones, ecosystems, habitats, and any environmental features that relate to your data. It includes links to quality-controlled terms in gazetteers and ontologies; **Events** provide spatial and/or temporal references for any field and/or experimental work. The granularity of an event can range from an entire study/experiment to each deployment/use of an instrument over the course of a study. Events with different granularity can be organised in a hierarchical way as needed; **Methods** provide a list of sampling and/or experimental protocols, instrumentation, formulae, equations, codes, or models used in your work. It includes links to methods published in specialised journals such as MethodsX and SoftwareX or registered in online resources such as GitHub and Protocols.io; **Samples** provide a list of physical samples used in your work, including those used-up during analyses and those preserved in collections. It includes links to sample descriptors registered in online resources; **Entities** provide a list of chemical and biological entities described in your work (e.g. proteins, organisms), including "sub" entities (e.g. molecular bonds, body parts) and "super" entities (e.g. "algae", "colony"). It includes links to quality-controlled terms in online resources such as chemical registers and taxonomic registers; **Qualities** provide a list of qualitative parameters (e.g. colour, shape, treatment) and their values used in your work, including traits (e.g. blue, red, round, elongated), and natural or artificial conditions used during experiments (e.g. elevated CO2 levels). It provides links to quality-controlled terms in online ontologies; **Quantities** provide a list of quantitative parameters/variables used in your work, detailing their quantity kind, name, abbreviation, dimension, units, quartiles, accuracy and precision. It includes links to quality-controlled terms in online ontologies.

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Introduction
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We welcome submissions of three article types: Data in Context Articles are the perfect companion to books, journal articles, presentations, or posters that contain research data. They are short and include a preformatted table that characterises your data. Please use our Data in Context Article template. Data in Focus Articles bring together and harmonise collections of research data from already published and unpublished sources. They are more detailed and include statistical distributions of data. Please use our Data in Focus Article template. Data Perspective Articles highlight the latest initiatives, tools and opportunities that may improve data sharing, discovery and reuse in aquatic sciences. They are short review type articles. Please use our Data Perspective Article template.

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Data articles submitted to Aquatic Data undergo an initial assessment by the Editor-in-Chief (or handling Editor) and are then sent out for technical peer-review by a data specialist (editorial board member) and for scientific peer-review by at least one researcher in a relevant field.

**Editor's initial assessment**

**Originality:** The Article has not been published elsewhere in whole or in large parts. A plagiarism check report is available to all reviewers in the EVISE editorial system.

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Data quality: The treatments and analysis are performed to a high technical standard and are described in sufficient detail.

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