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

AUTHOR INFORMATION PACK

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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**Data in Focus Articles** bring together and harmonise collections of research data from already published and unpublished sources.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.

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

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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 morphological traits data bases and 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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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.

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b. fit for reuse only when combined with Contextual Data provided in the Article;
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- **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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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;
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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), natural or artificial conditions used during experiments (e.g. elevated CO2 levels). It provides links to quality-controlled terms in morphological traits data bases and ontologies;
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