

Motivation

Biomolecular data, e.g. DNA and RNA sequences, provides insights into the structure and function of marine communities in space and time. The associated metadata has great internal diversity and complexity, and to date biomolecular (meta)data management is not well integrated across Helmholtz Centres. > Enhancing the interoperability of marine biomolecular (meta)data will support FAIR data exchange internally and externally, and promote efficient exploitation of the data.



Data Exchange; ODIS - Ocean Data and Information System; OIH - Ocean Info Hub

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	Christina Bienhold enhold@web.de 003-2269-9468 -	
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HARMONise – Towards the sustainable management of metadata associated with marine molecular sequencing data

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Local (meta)data management

- Decentralised (meta)data management allows for local adaptations to promote fitness-forpurpose according to each Center's/group's research mission.
- A web-portal for metadata upload and harvest enables sustainable data stewardship, improves accessibility and supports delivery of highquality metadata to national and global repositories.

Web-based metadata viewer

Metadata subsets are harvested by the Marine Data Portal, increasing **findability** across research domains and promoting reuse of biomolecular research data.

Helmholtz and global digital ecosystem

Alignment with community standards and relevant data exchange formats (e.g. UNESCO ODIS-Arch specifications) will support Helmholtz connectivity and global interoperability.



MARINE DATA Search for author, expedition, project,



Aims

The project aims to develop sustainable local-to-global workflows that support:

High-quality curation and management of marine biomolecular metadata FAIR exchange and publication of (meta)data within HMC systems and globally Harmonisation of biomolecular (meta)data with other Helmholtz digital holdings and services



Links to HMC

HARMONise is aligned with the HMC goals. It: supports the development of digital cultures in the groups/Centers, ii) strengthens biomolecular (meta)data exchange, iii) ensures sustainability through high-quality documentation, and iv) enhances Helmholtz-to-global interoperability

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