HELMHOLTZ Open Science







OPEN SCIENCE FACTSHEET NO. 4

based on the 59th online seminar: Research Data Management – a biodiverse MOSAiC (Slides)

MOSAIC

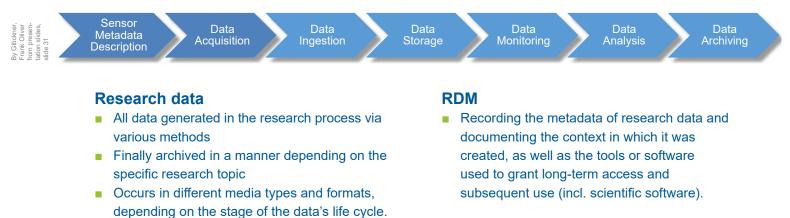
"Multidisciplinary drifting Observatory for the Study of Arctic Climate" Aim: Investigating "the Arctic as the epicenter of global warming and to gain fundamental insights that are key to better understand[ing] global climate change." [https://mosaic-expedition.org]



WHAT IS RESEARCH DATA MANAGEMENT (RDM)?

From "Recommendations for guidelines at the Helmholtz centres on handling research data"

► Further information (available in German only) "BMBF-Aktionsplan Forschungsdaten"



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CASE STUDY: MOSAIC DATA POLICY

"The [MOSAiC] project's success, and its ultimate impact on science and society, relies upon professional coordination and data sharing across the participants. A transparent Data Policy is essential to achieve MOSAiC science objectives, to facilitate collaboration, and to enable broad use and impact of the MOSAiC data legacy."

Metadata standards	 Machine-readable and interpretable as well as human understandable; following the <u>FAIR data principles</u>.
Data ingest, transfer, storage and archiving	 MOSAiC Central Storage (MCS) aboard Polarstern gathering data; land MCS as the central database of MOSAiC data.
Data Provision, Access and Sharing	All MOSAiC raw and primary data are freely available to MOSAiC consortium members as soon as they are stored in MCS; for using data from the MCS for publications, data provider or data PI must be informed and offered collaboration on the scientific analysis.
Public Release of Data	 MOSAiC data will be freely and publicly available on the open MCS or <u>PANGAEA</u> and/or alternate public archives on Jan 1, 2023. As of Jan 1, 2023 no restrictions on data usage; but data users are encouraged to communicate with data providers or data PIs to ensure accurate usage and interpretation of data

OUR SPEAKER PROF. DR. FRANK OLIVER GLÖCKNER



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