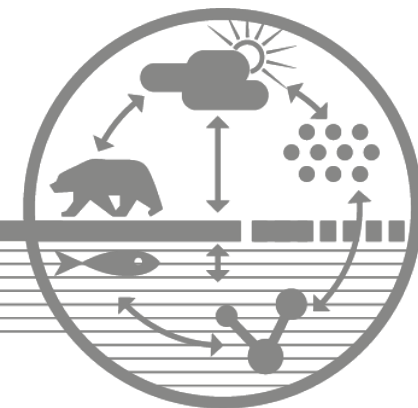


MOSAiC

International
Arctic Drift
Expedition



MOSAiC Data Webinar 16th December, 2020

FIELAX



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG

Outline

- **Presentation covering....** *(Franziska Nehring / Heidi Turpeinen, FIELAX GmbH)*
 - access rights
 - access to the MCS, structure of MCS
 - upload of data to MCS via Ingest feature
 - modification of Device Operations
 - using Dship
 - examples
- **Presentation on AWI Marketplace and JupyterHub**
(Stefan Pinkernell, AWI)
- **Presentation of an example on how to use JupyterHub for your data**
(David Wagner, SLF)
- *Example: access previously created files on MCS via SFTP*

Where to find documentation?

<https://mosaic-data.org/>

How to get help?

<mailto:support@mosaic-data.org>

<mailto:o2a-support@awi.de>

Access Rights



Everyone who requires access to MCS and other systems to work on MOSAiC Data needs an **own personal MOSAiC User Account**

- eAccount sent to you from AWI after signing the [MOSAiC Data Policy](#)
- check for emails from eaccount@awi.de
- see [Get MOSAiC User Account](#)

IMPORTANT:

Do not share your personal credentials with anyone!

MOSAiC Central Storage – Access via SFTP



- [Accessing MOSAiC Data on Land](#)
- Via SFTP: [FileZilla](#), [SFTP-DriveV2](#), [Cyberduck](#)...
- What do I need to connect?
 - ✓ Server: mosaic-data.org
 - ✓ Username: Your personal AWI eaccount username
 - ✓ Password: Your personal AWI eaccount password

After connecting you will find yourself in a folder called “***homelocal/username***”

/isibhv/platforms

- Raw data → Read for all !!!
- Write for users named as *Editors* and *Data Providers* for the specific device in SENSOR
 - ✓ Modifications of a file require personal communication between the data team (AWI) and data provider.
 - ✓ To upload additional raw data or lab analysis for your device actions use <https://ingest.awi.de>

[Handling of Analytical/Lab Data in MCS, SENSORWeb and DSHIP](#)

/isibhv/projects-dmz/mosaic

- “Workspace” → read and write access for everybody
- Visualize your data
- Share your data
- Work in Teams

*New structure of workspace
– please move your data!*

MOSAiC Central Storage – Access via SFTP



- **platforms_processed** (*directory tree as in platforms but without sub folders for device operations for upload of processed data products*)

- **Teams_Tasks**

01_Public (*General information*)

PublicPolarstern

Maps_FloeNavi

Weather

Reports

OutreachMaterial

02_ATMOS

03_ICE

04_OCEAN

05_ECO

06_BGC

07_CrossActivities



Contents to be defined by team

Logistics+Safety

Media

Data

Modelling

Aircraft

Coring

Leads

MicroPlastic

- **DataProducts** (*Overarching data products, to be defined over time. Results from merged data sets. Top level directories to be discussed once needed*)



MOSAiC Central Storage – Access via “nextcloud”



Access via <https://nextcloud.awi.de>

- Mosaic-platforms: download only
- Mosaic-workspace: upload and download

Currently rather slow!

Please use FTP for larger amounts of data!

INGEST Service



Service to upload new data or lab analysis of MOSAiC samples to the MCS

<https://ingest.awi.de/>

Prerequisites:

- SENSOR account and role as data provider or editor
- device and device relations (events) are described in SENSOR
- for lab analysis follow instructions on how to link them to device operation first

[... see the documentation](#)

Updating device operations via PANGAEA



- Device operations are published and updated in PANGAEA/Expeditions
<https://pangaea.de>
- If you need to modify or upload a new device operation you need to register with PANGAEA
 - ORCID iD or
 - create an account: just fill in the form, verify the link you get via email and you are ready to submit!
- Follow the guidelines as documented [here](#)

Data portal DShip



- Data from sensors installed permanently on Polarstern e.g. Ferry Box, water depth, temperature and salinity, weather data, position data
- Free access via <https://dms.awi.de/>
- No login required → you can start an extraction and use any user name to later download an extraction
- Be patient: Long extractions with high temporal resolution take a while (leave email address for notification)

Examples



- <https://mosaic-data.org/>
- [Get MOSAiC User Account](#), [MOSAiC Data Policy](#)
- [Accessing MOSAiC Data on Land](#)
 - Via SFTP: [FileZilla](#), [SFTP-DriveV2](#), [Cyberduck](#)...
 - Via <https://nextcloud.awi.de>
- <https://ingest.awi.de>
- <https://pangaea.de>
 - [Update or add DSHIP-Device Operations for past legs](#)
- DSHIP via <https://dms.awi.de/>

How To Get Help



- <mailto:support@mosaic-data.org>
- <mailto:o2a-support@awi.de>

MCS – Jupyterhub

see [Jupyterhub](#)



- Basics provided by Stefan Pinkernell (AWI)
- Example provided by David Wagner (SLF)
- Example: Access the previously created file on MCS via SFTP