

DFG initiative to generate synergies within the German research community with respect to the handling of earth science data

NFDI<sub>4</sub>Earth is a community-driven process providing researchers with FAIR, coherent, and open access to all relevant Earth System data, to innovative research data management and data science methods.

>16 German research institutes and universities



## NFDI<sub>4</sub>Earth2Participate

M1.1: Earth System Science Pilots  
M1.2: Incubator Lab  
M1.3: Education and Training Materials and Services  
M1.4: NFDI<sub>4</sub>Earth Academy

Task Area 1



## NFDI<sub>4</sub>Earth2Facilitate

M2.1: OneStop4All  
M2.2: User Support  
M2.3: Governmental Data  
M2.4: Data in Long-Term Storage  
M2.5: Advancing Tools

Task Area 2



## NFDI<sub>4</sub>Earth2Interoperate

M3.1: Synthesis of a Sustainable NFDI<sub>4</sub>Earth Architecture  
M3.2: Common Standards for FAIR ESS Data  
M3.3: NFDI Commons  
M3.4: International Networking & Embedding

Task Area 3



## NFDI<sub>4</sub>Earth2Coordinate

M4.1: Coordination, Collaborative and Sustainable Governance of NFDI<sub>4</sub>Earth  
M4.2: Towards a Cultural Change in ESS Research Data Management  
M4.3: Central Support Services for the federated NFDI<sub>4</sub>Earth

Task Area 4

## Pilots 2022

- Geophysics, Geochemistry, Geology, Paleontology
- Atmospheric Science, Oceanography, Climate and Water Research
- Geography
- Ecology, Biogeochemistry

NFDI<sub>4</sub>Earth will provide a **OneStop4All** to act as an initial visible contact point. In a structured way, this web-based contact point will provide basic information on the general principles of FAIR data, e.g. how to find and access existing data sets, how to contact existing repositories, how to take first steps in making data FAIRer, and how to find other services provided by NFDI<sub>4</sub>Earth.

Bathy4All: Workflows for Multibeam Processing and Visualization
Data Cube Visualisation
Developing Tools and FAIR Principles for the MetBase Database
Enhancing Earth System Model Evaluation with Data Cube enabled Machine Learning
German Marine Seismic Data Access
GeoFRESH: Getting freshwater spatio-temporal data on track
Interoperability and Reusability of Geoscientific Lab Data
Linking Environmental Data into European Scale Research Infrastructures
NFDI for Seamless Earth System Model-Data Integration
OcMOD: Observations closer to Model Data
PAMbase: A Repository of Soundscape Recordings to Study Earth's Phonosphere
Reusability of Data with Complex Semantic Structure
Statistical Learning to assess factors underlying environmental changes
World Settlement Footprint (WSF)

## New campus building



Provide office and lab space for west shore based colleagues



## New campus building



- Fire during roof cardboard work
- Parts of outer facade molten
  - Smoke passed inside building

Expected to start move into new building by November 2022

Will host 1,000 scientists, technicians and administration on one campus.



# New campus building



## Core repository

- +4° C
- 30,000 core sections
- Will be upgraded with movable shelves
- Core preparation & sampling lab



## Rock repository

- 5,500 boxes with samples
- Up to 7,400 boxes capacity

# METEOR - IV



Length: 125 m  
Width: 21 m

Crew: 36  
Scientists: 35

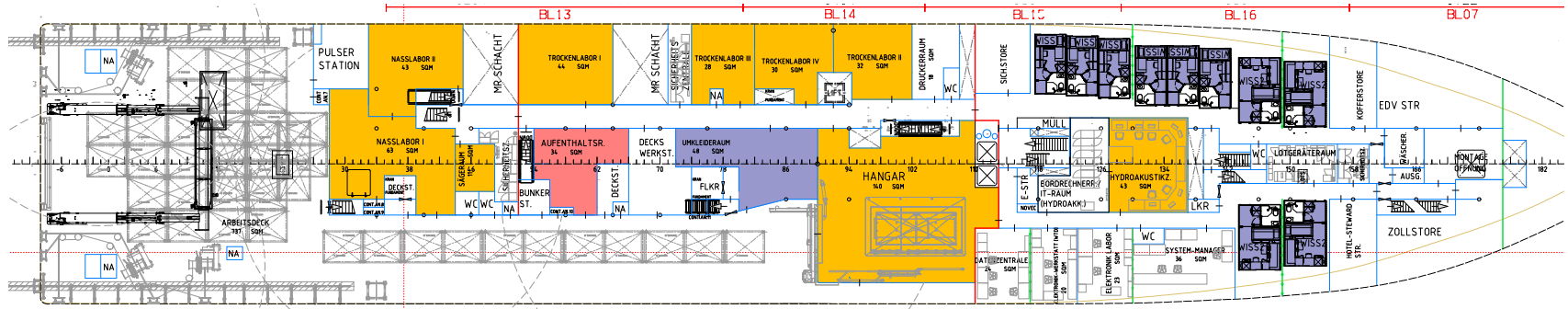
Owner: Federal Ministry of  
Education and  
Research

Operator: Briese Research

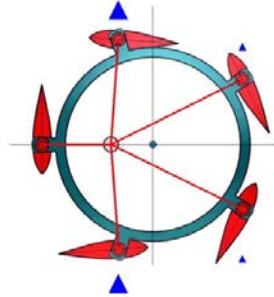
Ship yard: Meyer – Fassmer  
Hull: Neptun Yard, Rostock  
Finish: Fassmer Yard, Berne

Delivery: April 2026

# METEOR - IV



Voith-Schneider



Main propulsion:  
2 Voith-Schneider