

NIPPON FOUNDATION - GEBCO ALUMNI PROJECTS

Sharing MARUM bathymetric data and open-source processing software (MB-System) workflows

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Progress as of 09.08.2024

Task 1: Submission of bathymetry data to **PANGAEA** (long-term data repository for MARUM data)

Objective	Result
Revision of the MARUM cruises that collected bathymetry data	Revision of the cruises list since the establishment of MARUM in 2003. In 2003-2023 ca. 350 cruises with MARUM participation took place. Bathymetry data for 37 cruises missing in PANGAEA were located on the servers. Data reports for the other missing 46 cruises have to be checked to find out if bathymetry data were collected.
Preparation of data submissions	Metadata template created to be filled in for 37 cruises by the student assistant in August 2024.
Communication with the PANGAEA data team and MARUM director	Cruise PIs identified to confirm the data submissions. Data transfer to be confirmed with the PANGAEA team.

Task 2: **MB-System** (open-source software for bathymetry data post-processing) user documentation

Objective	Result
Revision of the existing MB-System user documentation	Online meetings of Christian Ferreira (MARUM) with David Caress (MBARI) to identify the work steps (28 July 28, 2023; 31 Jan, 28 May, 11 June, 2024)
Adoption of the data processing workflows	Simple script compiled for plotting raw and processed data. Preparation of updated manuals to be published on the MBARI GitHub page. To be completed in Aug/Sept 2024.
Preparation of a contribution for the IHO-IOC GEBCO Cookbook	<ul style="list-style-type: none">Proposed a new subchapter on MB-System in Section Fundamentals / Chapter 4.0 Software OverviewAwaiting approval of the Editorial Board (contact - Christiane Reiser, NOAA NCEI)