



<https://www.marine-geo.org>

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MGDS is a **community-trusted** data repository with a primary focus upon marine geophysical data products and complementary data related to understanding the *formation and evolution of the seafloor and sub-seafloor*.

MGDS promotes data discoverability, integration and synthesis by consolidating similar content and is recommended by NSF as the repository for investigators funded through the NSF Marine Geology-Geophysics program.

MGDS is developed and operated by **domain scientists** and **technical specialists** with knowledge about the generation and analysis of marine geoscience data.

MGDS offers **investigator support** including compliance with data sharing and access policies, the long-term preservation and stewardship of data products, and adherence to community standards for data publication and citation. Data set **DOIs** provide persistent, resolvable data sets identifiers, allowing researchers to formally cite their data.

Data Types

MGDS accepts a wide range of raw and processed data and derived products. Examples include bathymetry, sidescan, sub-bottom profiles, multi-channel seismic data, earthquake catalogues, heat flow, seafloor bottom photos, seismic tomography models, and magneto-telluric data. MGDS handles many different file formats.

MGDS accepts data from any funding stream. Data and metadata are submitted using a simple on-line [web form](#). For very large files, please contact the team for the best way to submit data. MGDS team members can help with data submissions.

Metadata Standards

MGDS promotes FAIR data principles and is driven by the **needs of the community**. The data holdings are enriched with a curated, well-documented metadata catalogue that meets community standards.

The MGDS metadata catalogue is freely available as a **Web Service**.

Data Collections

MGDS hosts several coherent data collections including the [Academic Seismic Portal](#), the GeoPRISMS Data Portal, and a range of legacy data from the NSF Ridge2000 and MARGINS programs.