

CDDIS Services to the ILRS



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Abstract:

The Crustal Dynamics Data Information System (CDDIS) is one of twelve NASA Earth Observing System Data and Information System (EOSDIS) Distributed Active Archive Centers (DAAC) and supports the space geodesy and geodynamics community through the International Association of Geodesy (IAG) services, which includes the International Laser Ranging Service (ILRS). As an EOSDIS DAAC, the CDDIS is required to meet best archival practices including the Findability, Accessibility, Interoperability, and Reuse (FAIR) Guiding Principles for scientific data management and stewardship which ultimately serves data and product providers and users. These best practices and artifacts built to support them are not always visible to users although utilizing them ultimately benefits the community, for example with Digital Object Identifiers (DOIs) to ensure traceability and that proper credit is given to the data and product creators. To address this gap, this poster steps through the CDDIS's ingest, quality control, and archive systems that ensure data is searchable, citable, and credit is given to providers. The CDDIS will then review ESDIS tools for exploration of the CDDIS archive. Beginning next year, the CDDIS will start migrating to the cloud to support open science.

Findable – DOIs, Landing Pages

- Provides consistency and enables formal citations of data, products, and other digital objects to ensure proper credit to data and derived product providers, archive/data centers and analysis centers, and beyond
- CDDIS has published 120 DOIs representing the four techniques it supports
- DOIs and their Landing Pages are created for new data/products and updated when there are changes, including to format or documentation for a data/product

Accessible – HTTPs

- Https allows for human and machine accessibility
- Free and open
- Requires login to inform users about changes to data and/or services

nteroperable – GCMD, UMM

- Controlled keyword vocabulary using the Global Change Master Directory (GCMD)
- Structured metadata in the Unified Metadata Model (UMM)

Reusable – DOI, Landing Pages (see Findable)

rchive

CDDIS
Ingest Processing

CDDIS Database and Outputs

Common Metadata





- users