

GEOSS Condensed Data Management Principles

Prepared by the GEO Data Management Principles Task Force

Approved by Data Management Principles Task Force on April 28, 2015

2.3.1.2 Data Management Principles for the GEO Strategic Plan 2016-2025: GEOSS Implementation

To further maximize the value and benefit from data sharing, GEO will continue to work with partners to promote the use of key Data Management Principles, including the need for common standards and interoperability arrangements. This will ensure that data and information of different origin and type are comparable and compatible, facilitating their integration into models and the development of applications to derive decision support tools. GEO therefore strives to promote and encourage the implementation of Data Management Principles, [see annex] which are summarized as follows:

Earth observations will be catalogued or otherwise advertised on the internet so that they can be discovered, and will be accessible online using open-standard encodings and services. Data and services will be comprehensively documented using international or community-approved standards, and to the extent possible, peer-reviewed publications, so that users can understand and make use of the data. Metadata will include access and use conditions, the results of quality control procedures, and provenance statements indicating the origin and processing history of the dataset or product. Data and associated metadata will be protected from loss and periodically verified to ensure integrity, authenticity and readability. Corrections and updates to data and metadata records will be performed as required. Finally, persistent identifiers will be assigned to data so that they can be tracked and cited and data providers can be acknowledged.