Resource Summary Report

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NASA: Earth Science Data

RRID:SCR_005078
Type: Tool

Proper Citation

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Resource Information

URL: http://science.nasa.gov/earth-science/earth-science-data/

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Description: The Earth Observing System Data and Information System (EOSDIS) is a major core capability within NASA"s Earth Science Data Systems Program. EOSDIS ingests, processes, archives and distributes data from a large number of Earth observing satellites. EOSDIS consists of a set of processing facilities and Earth Science Data Centers distributed across the United States and serves hundreds of thousands of users around the world, providing hundreds of millions of data files each year covering many Earth science disciplines. In order to serve the needs of a broad and diverse community of users, NASA"s Earth Science Data Systems Program is comprised of both Core and Community data system elements. Core data system elements reflect NASA"s responsibility for managing Earth science satellite mission data characterized by the continuity of research, access, and usability. The core comprises all the hardware, software, physical infrastructure, and intellectual capital NASA recognizes as necessary for performing its tasks in Earth science data system management. Community data system elements are those pieces or capabilities developed and deployed largely outside of NASA core elements and are characterized by their evolvability and innovation. Successful applicable elements can be infused into the core, thereby creating a vibrant and flexible, continuously evolving infrastructure. NASA"s Earth Science program was established to use the advanced technology of NASA to understand and protect our home planet by using our view from space to study the Earth system and improve prediction of Earth system change. To meet this challenge, NASA promotes the full and open sharing of all data with the research and applications communities, private industry, academia, and the general public. NASA was the first agency in the US, and the first space agency in the world, to couple policy and adequate system functionality to provide full and open access in a timely manner - that is, with no period of exclusive access to mission scientists - and at no cost. NASA made this decision after listening to the user community, and with the background of the then newly-formed US

Global Change Research Program, and the International Earth Observing System partnerships. Other US agencies and international space agencies have since adopted similar open-access policies and practices. Since the adoption of the Earth Science Data Policy adoption in 1991, NASA''s Earth Science Division has developed policy implementation, practices, and nomenclature that mission science teams use to comply with policy tenets. Data System Standards NASA''s Earth Science Data Systems Groups anticipate that effective adoption of standards will play an increasingly vital role in the success of future science data systems. The Earth Science Data Systems Standards Process Group (SPG), a board composed of Earth Science Data Systems stakeholders, directs the process for both identification of appropriate standards and subsequent adoption for use by the Earth Science Data Systems stakeholders.

Abbreviations: Earth Science Data

Synonyms: NASA Earth Science Data

Resource Type: portal, data or information resource, data set, standard specification, narrative resource

Keywords: atmosphere, agriculture, biological classification, climate, cryosphere, human dimension, land surface, ocean, paleoclimate, spectral, engineering, sun-earth interaction, terrestrial hydrosphere, cloud, precipitation, solar radiation, rainfall, global warming, greenhouse effect, ozone, sea level

Funding:

Resource Name: NASA: Earth Science Data

Resource ID: SCR_005078

Alternate IDs: nlx_144092

Record Creation Time: 20220129T080228+0000

Record Last Update: 20250426T055744+0000

Ratings and Alerts

No rating or validation information has been found for NASA: Earth Science Data.

No alerts have been found for NASA: Earth Science Data.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.