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Service specification for space science data products

空间科学数据产品服务规范

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1 Scope

China's national service specification for space science data products. It specifies the terms and definitions, the division of responsibilities, the classification of data users and the service provisions. Space science differs from Earth observation in who the data is for: the instrument team that built the payload has a legitimate first claim on it, and the wider community gets it afterwards. Managing that transition is what a data service specification is really about. It has to define the proprietary period during which the team analyses its own data, the point at which the archive opens, the responsibilities of the centre that holds it, and the classes of user and what each may do. Getting it wrong in either direction damages the science: too short a proprietary period and nobody will build instruments, too long or too vague and the data is effectively lost to everyone else while the mission's context is still understood.

This Standard specifies the science data product services that are acquired from space science experiments/ explorations, and specifies contents such as division of responsibilities, user classification and management, and data product services. This Standard applies to space science data product services that are acquired from space science experiments/ explorations. Science data product services in other fields can use it by reference.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 28874, Specification for level of data products for space science experiments

3 Terms and definitions

The following terms and definitions are applicable to this document.

3.1 Authorized administration The administration that is authorized by national competent departments to organize and manage data service activities, and to authorize the executive administration to carry out data product management and service.

3.2 Executive administration The administration that is authorized by the authorized administration (3.1) to specifically take charge of data processing, management, maintenance and to provide service.

3.4 Archived data products

- a) Be entitled to use space science data products for research and applications, and to make corresponding requirements for data product quality and service quality;
- b) Use data products according to the approved purposes; take effective measures to protect the intellectual property rights of data products;
- c) The data user shall transfer the space science data reprocessing products to the executive administration in time;
- d) When the research results of data products are published, mark the data sources.

5 Data user classification and management

5.1 User classification According to data user attributes and their data application purposes, data users are divided into the following 5 categories:

- a) Exclusive data user: the chief scientist or project leader, unit or organization that has the exclusive right to use the data;
- b) Public-welfare data user: individuals, units or organizations that use space science data to develop scientific research or public-welfare applications;
- c) Business data user: individuals, enterprises or institutions that use space science data to develop business applications and provide value-added services;
- d) International data user: foreign individuals, physical organizations or institutions that acquire and use China's space science data to develop scientific research and application, which is divided into international cooperative data user and international business data user according to data user attributes;
- e) Public user: users other than those mentioned above.

5.2 Data user management Different data user management processes are different, as follows:

a) Exclusive data users have the right to preferentially use data according to the regulations of the authorized administration;

b) Public-welfare users and international cooperative data users need to submit applications; the executive administration shall conduct user 2) Arrange experiments/ exploration plans for feasible requirements; acquire, process and archive data; 3) Provide processed data products.

6.2.2 Emergency service The emergency data service process is:

a) Acquire emergency data requirements; initiate a rapid response mechanism;

b) Provide archived data products which are required for emergency; preferentially provide online data;

c) Arrange emergency experiments/ exploration plans in time to achieve programming data acquisition;

d) According to the development of the emergency, terminate emergency data product services.

6.3 Service methods

6.3.1 Online services Online data product services:

a) Publish standard data products and metadata, notification requirements, tool software, etc.;

b) Data push service, user data exchange and submission, data sharing;

c) Implement data consultation and data services; online services provide clear navigation, and provide data query, retrieval and download support;

d) Record online data product service statistics.

6.3.2 Offline services Offline data product services:

a) Provide data product offline transmission services for data that should not be directly disclosed on the Internet due to excessive quantities and special requirements;