

NSSDC Measures for Data Management and Open Sharing

(Trial Implementation)

Published in June, 2019

Chapter 1 General Provisions

Article 1 National Space Science Data Center (NSSDC) is a national data center national space science center recognized by Chinese Ministry of Science and Technology (MOST). The Missions of NSSDC are as follows:

- 1) Undertake the task of integrating and archiving space science data.
- 2) Responsible for space science data classifying, processing, analyzing and mining.
- 3) Safeguard scientific data, and promote open sharing of space science data according to laws and regulations.
- 4) Strengthen the exchange and cooperation in space science data at home and abroad.

In order to promote the data management and sharing activities, effectively protect the legitimate rights of data providers, these measures are specifically formulated.

Article 2 NSSDC data management and data sharing services follow the principles of considering users' needs fully, data open sharing without discrimination, data classification and providing data classification services, focusing on data content services, protecting the legitimate rights

and interests of data providers.

Article 3 These Measures shall apply to the relevant units and individuals in the NSSDC who participate in data resource sharing and construction, as well as the relevant units and individuals using the NSSDC data resources.

Article 4 The data mentioned in these Measures refers to the original generated data in the space science and technology activities, as well as the various level data sets processed according to different needs. It is mainly obtained through the research activities carried out by scientific and technological workers, and the space-based observation, ground-based observation various experiments, and sorting and selection from a number of related data sources.

Chapter2 Data ingest

Article 5 The responsibilities of data submitters or producers (including individuals and units) are form easy-to-use databases or datasets in accordance with relevant standards and regulations. Data submitters or producers are in charge of the accuracy and usability of those data. Data submitters shall provide completed metadata information and peer-reviewed or peer-recognized data quality reports.

Article 6 As the data receiver, NSSDC shall audits the data integrity, data files completeness and metadata normalization according to the NSSDC ingestion requirements. Data submitters or producers shall coordinate with

NSSDC and provide supports to accomplish the data audits. NSSDC shall give supports and guidance in data ingestion and metadata producing.

Article 7 NSSDC has been granted the authority by data submitters to long-term perseverance, dissemination and sharing any data deposited with NSSDC to any of its consumers.

Article 8 The NSSDC ingestion requirements are as follows: The submitted space physics data shall comply with the NSSDC Data Organization Model, metadata shall in accordance with the SPASE standard. For other disciplines data, popular and international accepted data standards, data formats and metadata formats are strongly recommended.

Article 9 Data submitters are responsible for identifying and notifying NSSDC of any restrictions imposed by any applicable Chinese government policies, laws, and regulations. NSSDC reserves the right to add additional restrictions required by any applicable Chinese government policies, laws, and regulations if such restrictions become known to NSSDC.

Chapter 3 Data Management and Perseveration

Article 10 The NSSDC is responsible for the long term archiving and preservation of all space science data in China. The NSSDC built checksums mechanism for the ingest data integrity ensuring.

Article 11 All data is classified into two categories according to the nature of confidentiality: open or confidential. The confidential data is classified

and managed in accordance with the *Law of the People's Republic of China on the Protection of State Secrets*.

Article 12 NSSDC generate and maintain a Permanent IDentification (PID) for all standard data-set collections distributed to users.

Article 13 NSSDC maintain catalog metadata for all products available in the NSSDC data system. The metadata content shall conform to NSSDC metadata standards.

Chapter 4 Sharing and Service

Article 14 The Open data principles of NSSDC are as open as possible and only as closed as necessary. However, NSSDC data sources are serious of projects. NSSDC shall comply with the Project Data policy and its data protection period. During the protection period, project data is open to users in this project, then after the protection period, the data shall open to the public.

Article 15 NSSDC publish the open data catalogues in space science as required and release them to the users via online download/ dissemination, offline sharing or customized services.

Article 16 Data dissemination and sharing in NSSDC shall comply with all applicable Chinese government policies, laws, and regulations. Data includes standard and special data products, metadata, ancillary/auxiliary data, calibration data and documentation.

Chapter 6 User Management and Service

Article 17 All data users shall log in to the NSSDC service platform to download data after registration.

Article 18 Data users in NSSDC shall abide by the relevant provisions of intellectual property rights, indicate and reference the scientific data using in their journal papers, applying for patents, publishing monographs, and etc. Users shall use citation format NSSDC defined, (the citation format are can be found in NSSDC service platform) and submit relevant research results to NSSDC.

Article 19 The NSSDC shall assist users to resolve problems met in using NSSDC services, provides scientific information about the data products, resolves problems in data formats, data download failures and other data related issues.

Article 20 The NSSDC conducts annual user satisfaction surveys to obtain the users feedback.

Article 21 For infringements that improperly use scientific data, NSSDC will pursue the legal liability of the individuals user or infringing unit according to law.

Chapter 7 Supplementary Provisions

Article 22 Ministry of Science and Technology and the National Space Science Center of Chinese Academy of Sciences are the competent

authority of NSSDC, which are responsible for evaluating the NSSDC management and open sharing of space science data.

Article 23 In cases of data forgery, intellectual property rights infringement, and data-ingesting not according to relevant provisions, NSSDC according to the severity of the infraction, punish the offending entities by ordering them to make corrections, circulating a notice of criticism, taking disciplinary actions.

Article 24 These Measures trial from the date of publication.

Article 25 The right to interpret the relevant provisions of these Measures is at NSSDC.