

U004-11

会場:304

時間:5月26日 15:35-15:55

宇宙研における科学衛星データベースの長期アーカイブ化 A challenge to development of long-term archive for space science data at ISAS/JAXA

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At ISAS/JAXA, the public service of scientific spacecraft data download via the Internet for space science research community has started since 1998. The ISAS/JAXA's scientific missions cover extensive fields of space science, e.g. astronomy (X-ray, infrared, radio), solar physics, solar-terrestrial physics, and planetary sciences. At present, datasets from 12 mission projects launched after 1987 archived in the database system, namely, DARTS (Data ARchives and Transmission System). Since major subject of the data service has been the project team use, missions under the operation/development had higher priority of data service implementation. Consequently, the information acquired from the service is sometimes not enough for the general users because the system implicitly suppose the user's knowledge.

However, in recent years, since some missions unexpectedly continues the operation for a long period or terminated, the perpetuation of datasets or the development of a long-range-data archive becomes a challenge to be solved before the loss of all the important information for the data usage. The collection of the information is also necessary for any users in future. We have begun the activity to achieve the long-term archive of space science data in DARTS, surveying scientific and/or technical backgrounds of each science community in space science. We will present our activity concerning the long-term archive and discuss problems around the data.

キーワード: 科学衛星データ, 長期アーカイブ

Keywords: space science data, data archive