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Research data distribution activities in cooperation with Kyushu University Library

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The International Research Center for Space and Planetary Environmental Science (i-SPES) at Kyushu University operates MAGDAS, an observation network of ground magnetometers deployed around the world. We have about 40 years of geomagnetic observation data including preceding projects. These data are maintained in scientific standard exchange formats such as IAGA2002 and CDF. Metadata are produced by Space Physics Archive Search and Extract (SPASE) and open to the public by the metadata database of the Inter-university Upper atmosphere Global Observation NETWORK (IUGONET) project. These are readily available to researchers in related fields. In recent years, cross-disciplinary research is actively promoted, and updates are required that can be used by researchers in a wide range of fields. On the other hand, Kyushu University is promoting open access to research results with the aim of becoming an international academic research hub through active information dissemination, human exchange, and collaboration with various research institutions and industry. The Kyushu University Institutional Repository (QIR) is responsible for this activity. This repository enables the registration and publication of not only research papers but also research data in response to the recent rapid spread of the open science movement and the accompanying requests from journals and research funding agencies. We registered our metadata in QIR to make it accessible to many users, not just researchers in neighboring fields, and to promote the utilization of a wide range of cross-disciplinary data and data-driven research. QIR metadata can be distributed to external databases such as CiNii Research, DataCite Commons, etc., so that more people will be able to search and use them. In addition, research data published in QIR can be assigned a DOI. Obtaining a reliable and persistent identifier will ensure reliable access to research data. Obtaining DOIs is also expected to have the effect of facilitating the understanding of data citations and the number of data citations and leading to the evaluation of the performance of data providers by obtaining the number of data releases and the status of data utilization. In this paper, we introduce the progress of these activities and plans.