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## Promoting Open Data Sharing through Scientific Data Publishing: Innovations from the Global Change Research Data Publishing & Repository

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Against the global backdrop of “data sharing and reuse”, publishing scientific data as a formal research output—compared to traditional data submission or repository archiving—proves more effective in advancing open data sharing and academic recognition. Currently, data publishing remains in its early exploratory stages in China and worldwide, with dedicated scientific data publishing journals and platforms still relatively limited. This study examines the Global Change Research Data Publishing & Repository (GCdataPR), a World Data Center and China’s first and only platform supporting bilingual (Chinese-English) publishing of integrated “dataset + data paper” outputs. We present its innovative practices in data publishing models, sharing policies, workflows, platform functionalities, and current achievements. The system consists of two core components: Digital Journal of Global Change Data Repository and the Journal of Global Change Data & Discovery. To date, it has published over 1,400 datasets and 550 data papers, while curating thematic collections aligned with the UN Sustainable Development Goals (SDGs), such as Geographical Indications Environment & Sustainability (GIES), Global Island Data, and Global Oasis Data, etc.

By synthesizing GCdataPR’s practical experience, this study aims to provide insights for the global development of scientific data publishing, fostering its broader adoption in scholarly evaluation and open science initiatives.

**Primary author:** JIANG, ZHAOCAI (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences)

**Presenter:** JIANG, ZHAOCAI (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences)

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