

"Progress in Earth and Planetary Science" and the development of Earth and Planetary Science

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Since April 2014, JpGU has successfully been publishing Progress in Earth and Planetary Science (PEPS), covering all scientific fields of JpGU, under a collaboration with 50 JpGU participating societies. Currently high quality of articles have been published thanks to the contribution of world community members on Earth and Planetary Science. Therefore they are proud of high access numbers. We hope that scientific outcomes on Earth and Planetary Science will be widely exposed to international community through the publication of PEPS.

Keywords: Progress in Earth and Planetary Science, Earth Planetary Science, Publication

Recent States in Open Access and Open Science and Policy Developments

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Author introduces recent states of policy developments regarding Open Access and Open Science, with a brief history of scholarly publishing and communication for these decades that have been improved with incremental and disruptive ways with ICT technology .

Open Science, its definition is still not fixed, is a kind of movement to change the legacy framework of ST and Innovation, containing Science 2.0, Open Innovation, and Open Data, initiated by Open Access movement for journal article in a sense. By exploiting the potential of Open Science, the framework of science would be changed drastically, although it needs time to be settled.

Keywords: Open Access, Open Science, Policy, Scholarly Communication

Experiences of Data papers in Ecological Research: A pathway to the open data in ecology

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Ecological Research has been published by the Ecological Society of Japan since 1986. It publishes original research papers, reviews, technical reports, and notes and comments covering all aspects of ecology and ecological sciences. The editorial board consists of sixty-eight editors including a chief editor and ten associate editors who are responsible for controlling editorial procedures within their each professional field. The new category "Ecological Research Data Papers" was launched in 2011 to facilitate activities for opening the data that has usually been stored and been uneasy to be accessed publicly.

Data whose meta information is described in the Data Paper is archived as "Ecological Research Data Archives", which is located in the part of JaLTER database. JaLTER (Japan Long-Term Ecological Research network) was established in 2006 to provide scientific knowledge, which contributes to conservation, advancement and sustainability of environment, ecosystem services, productivity and biodiversity for a society by conducting long-term and interdisciplinary research in ecological science including human dimensions. JaLTER has nation wide network, which consists of 56 field sites including forests, lake and marine observatories, and agricultural experimental sites. Own database, JaLTER DB is managed and operated in the Center for Global Environmental Research in National Institute for Environmental Studies. We use the Metacat system as a database server application which handles EML (Ecological Metadata Language) for data organization and searching processes.

Since the establishment of JaLTER, the Committee for Large and Long-term Ecological Research of the Ecological Society of Japan has worked with JaLTER to encourage ecological scientists to make networks for field observations and monitoring. At the same time, in order to build up the framework for data opening by ecological scientists not only for the research communities, but also for the public and governments, the committee and JaLTER have worked cooperatively to establish the publishing procedure of Data Papers. The reason of this cooperation has been due to mutual benefits: Ecological Society can facilitate to open ecological data previously stored individually and/or institutionally through the data base facility of JaLTER, and JaLTER can yield high quality data through the authorization by editorial board of the Ecological Research.

12 data papers have been published in Ecological Research, and several manuscripts are currently under review. Those included datasets related to forest ecosystems and ones related to lake ecosystems, and agricultural ecosystems. Those were made by field oriented monitoring, and one consists of remote sensing data. Review process of data paper is performed mainly to evaluate the quality (accuracy and usefulness) of metadata and the organization of datasets.

A current subject for us is to keep the consistency of review standard and criteria of acceptance. To overcome of this issue, we are encouraging potential contributors of data papers, because review quality can not keep better without writing experiences of data papers. Moreover, datasets as products of data papers have to be utilized by scientists and recognized their usefulness not only by ecologists. We still need to make more actions to let the researchers recognize the importance of data opening. We believe that data papers can generate an incentive for data owners to act as data suppliers for ecological community and public.

Ecological Research: <http://www.springer.com/life+sciences/ecology/journal/11284>

Ecological Research Data Archives:

http://db.cger.nies.go.jp/JaLTER/ER_DataPapers/archives/2014/ERDP-2014-01/metadata

JaLTER: http://www.jalter.org/index.php?ml_lang=en

Keywords: Data paper, Open data, Ecological Society of Japan

Conditions to stabilize open access journal publishing with a case study of Science and Technology of Advanced Materials - A moment in the 350-year history of journal publishing

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In Japan, many journals change from the subscription model to an open access model, and new open access journals are launched in response to the new Japanese government policies and funding schemes. The involved challenges concern not only academic societies, but also libraries at universities and research institutes. I would like to introduce a case study of a gold open access journal, Science and Technology of Advanced Material, focusing on sustainable publishing management and open science policies in Japan.

Keywords: Open science policy, Open access journals, APC (article processing charges), sustainable journal publishing

"Earth, Planets and Space": Open Access Publication

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Earth, Planets and Space (EPS) is an academic journal published by the following five societies; The Society of Geomagnetism and Earth, Planetary and Space Sciences, The Seismological Society of Japan, The Volcanological Society of Japan, The Geodetic Society of Japan, and The Japanese Society for Planetary Sciences. The publication of EPS started in 1998 as continuations of Journal of Geomagnetism and Geoelectricity and Journal of Physics of the Earth. With the 5-year support from JSPS, EPS started open access publication from January 2014. The number of submitted papers in 2015 was 366, which is doubled from 2012, because of the increased visibility of the journal and the varieties of promotional activities. The average time from the submission to the publication was 5.2 months in 2015. We also had promoted successful 15 special issues (thematic series). We plan to promote submission of letter categories and aim to have quick publications. We also enhance collaboration with JPGU in the future.

Keywords: "Earth, Planets and Space", Open Access, Grant-in-Aid for Publication of Scientific Research Results