

[EE] Evening Poster | M (Multidisciplinary and Interdisciplinary) | M-GI General Geosciences, Information Geosciences & Simulations

[M-GI23]Open Science as a New Paradigm: Research Data Sharing, Infrastructure, Scientific Communications, and Beyond

convener:Yasuhiro Murayama(Strategic Program Produce Office, National Institute of Information and Communications Technology), Yasuhisa Kondo(Research Institute for Humanity and Nature), Baptiste Cecconi(LESIA, Observatoire de Paris, CNRS, PSL Research University, 共同), Sean Toczko(Japan Agency for Marine-Earth Science and Technology)

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Open Science is growing as a new research paradigm to accelerate scientific innovation. Deployed by ICSU-WDS (2008), G8 Open Data Charter (2013), Research Data Alliance (2013), OECD Global Science Forum's research projects (2016), and G7 Science Ministers' Communique (2017), it commonly refers to the top-down policies to make results of publicly-funded research freely available and accessible. On the other hand, this term also refers to the participatory bottom-up approaches such as citizen science, crowdfunding, and transdisciplinary research (Kitamoto 2016). It is noted that both approaches envision the transformation of research process to more findable, accessible, interoperable, and inclusive one. As a follow-up of the Great Debate "Role of open data and open science in Geoscience", this session reviews the current broad spectrum of Open Science, by welcoming a wide range of oral presentations and posters covering (but not limited to) open research data, open source licenses, data papers and journals, data repository, data sharing infrastructures and platforms, citizen science, crowdsourcing, crowdfunding, transdisciplinary research, capacity building, international networking, and deployment in earth and planetary sciences.

[MGI23-P09]Promotion of WDS-oriented Data Activity in the Asia-Oceania Area

*Takashi Watanabe¹ (1.ICSU World Data System International Programme Office)

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The World Data System (WDS) Asia-Oceania Conference 2017 was held at Masukawa Memorial Hall of Kyoto University, Kyoto, Japan, on 27-29 September 2017 to discuss future collaborations among data centers in Asia-Oceania countries. The number of participants was 107, including 68 domestic and 39 foreign participants. In the three-day conference and one-day associated workshop on solar-terrestrial data analysis, 53 oral and 31 poster papers were presented. Abstracts and presenting materials of these papers are opened in the conference Web page (wdc2.kugi.kyoto-u.ac.jp/wds2017/). The principal part of the conference was allocated to share information on current data-oriented activities being conducted in the area. We also set the session for thematic discussions on Future Earth, Space Weather, and Open Data/Science to make clear the problems and future activities to resolve them. After discussions held in this conference, we got common understanding given below:

- (1) Establish a "WDS Asia-Oceania Network" to share information and to stimulate collaboration to assure long-term preservation and provision of quality-accessed data
- (2) Nominate initial contact person from each participating country
- (3) Encourage data centers/repositories to join WDS Keep engagement with non-WDS former WDCs
- (4) Stimulate discussions on data repository accreditation
- (5) Collaborate with Future Earth, GEO, RDA, CODATA, and international research networks

(6) Connect our regional activities to international community (e.g. Data/Metadata format issue)

(7) Next WDS Asia-Oceania Conference will be hosted by China in 2019