# Data publishing in the context of the ICSU World Data System (WDS)

## Session Organizer:

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The new ICSU World Data System (WDS) is conceived as a global federated system of long term data archives and data related services covering a wide spectrum of natural sciences and encouraging interdisciplinary science approaches. The main focus lies on long term stewardship of scientific data, on data and metadata services including data analysis, and on data publication services. For the latter strong relationships with science publishers and libraries will be built up. Emphasis will also be given to interlink with the data production side, in particular science projects and programs. Furthermore, the WDS will maintain a common data and information infrastructure and interoperability conform to global standards thus ensuring efficient usage of supplied data and services as well as interlinkage (exchange) with other networks and programs. A primary goal of WDS is that data and services supplied meet science quality standards. Data publication services in particular have an overall positive impact on the quality and availability of scientific data. However, despite substantial initiatives in this area, existing procedures cannot be seen as final. Concerted approaches are needed to make data publications a fully acknowledged part of science publishing. The session will highlight concepts and developments in data publishing and will discuss major problems and challenges on the background of the development of the WDS.

Abstracts are expected addressing one or more of the following topics
- Trustworthiness of data archives (certification and accreditation) *(Jens Klump, GFZ  or Hans Pfeiffenberger, AWI?)*
- Data publication workflows  (incl. cross-linking issues between journal & data archives) *(Michael Diepenbroek, PANGAEA)*
- Peer review models and QA/QC procedures *(Martin Rasmussen, Copernicus)*
- Persistent identifier & Catalogues *(Jan Brase, TIB, DataCite)*
- Bibliometrics *(NN from Thomson Reuters)*
- Data citation issues (syntax, granularity etc.) *(NN)*
- User experiences, expectations, and needs *(Jean Bonnin, Strasbourg)*
- New concepts (linked data, open data, clouds) *(Michael Zgurovsky, WDC-Ukraine)*
- Views from related initiatives & communities (WIS, GEOSS, Space agencies, GBIF, OBIS, IODE?, digital curation centers - one or two of those)

For the session 2 blocks 1,5 hours presentations + 1 block 1,5 hours panel discussion is planned.