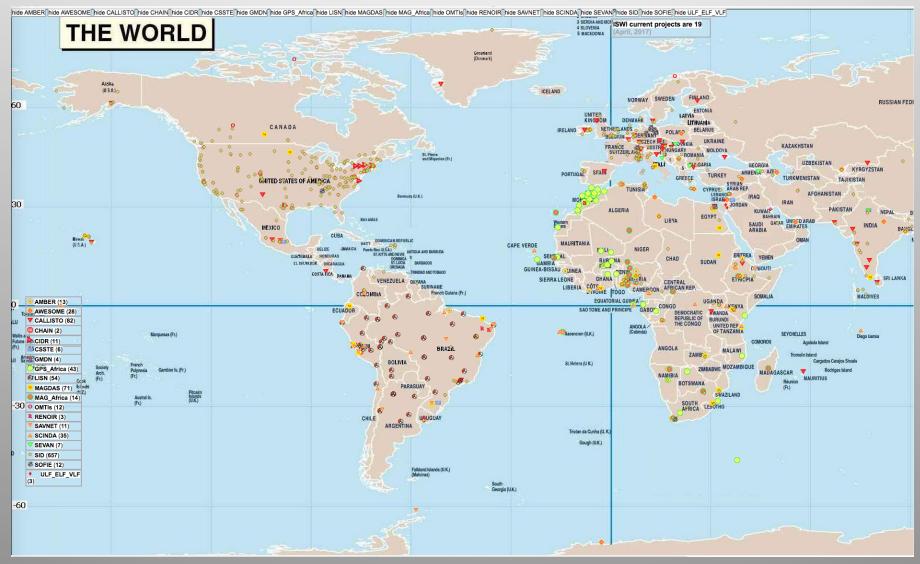
ISWI Open Data Policy: An Instrument of International Cooperation

Shing F. Fung

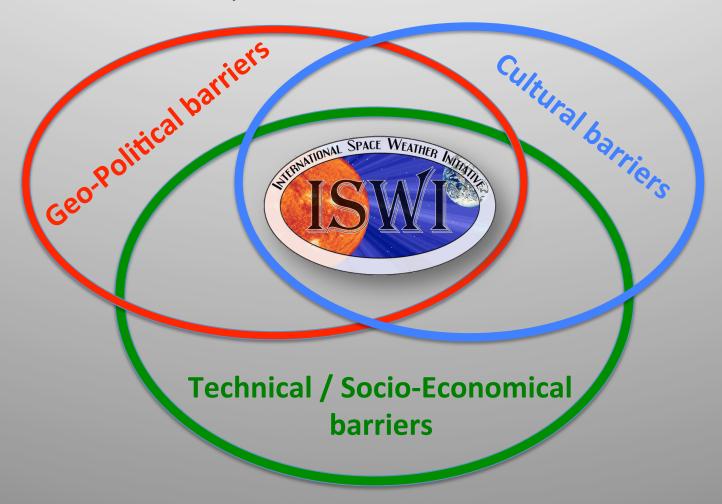
ISWI Data Coordinator
NASA Goddard Space Flight Center
Greenbelt, Maryland, USA

Global Distributions of ISWI Instruments [http://www.iswi-secretariat.org/]



Data Flow Barriers

- Programmatic barriers: Provenance or authority of data
- Technical barriers: Diversity in data contents, formats, storage mechanisms, access protocols, etc.



Removal of Barriers: ISWI Success

- An Open data policy can
 - Remove political, cultural, & administrative barriers
 - Ensure data availability & accessibility

- Using standard data & metadata formats can
 - Reduce technical barriers
 - Promote usability and interoperability

ISWI Data Policy Timeline

- March 2015 Open data policy proposed & recommended at ISWI at UN/Japan ISWI workshop in Fukuoka, Japan
- April 2015 ISWI data policy subcommittee formed
- February 2016 Draft open data policy approved by ISWI Steering Committee (EC)
- February 2017 Minor text revision approved by ISWI EC
- Will be posted at <http://www.iswi-secretariat.org> shortly after the UN/US ISWI workshop

ISWI Data Policy Subcommittee

Shing Fung (Chair), NASA Goddard Space Flight Center, USA

Christine Amory-Mazaudier, CNRS, France

Keith Groves, Boston College, USA

Christian Monstein, ETHZ, Switzerland

Terry Onsager, NOAA, USA

Babatunde Rabiu, University of Nigeria, Nigeria

George Maeda, Kyushu Institute of Technology, Japan

Jesper Gjerloev, Johns Hopkins University, USA

ISWI Data Policy

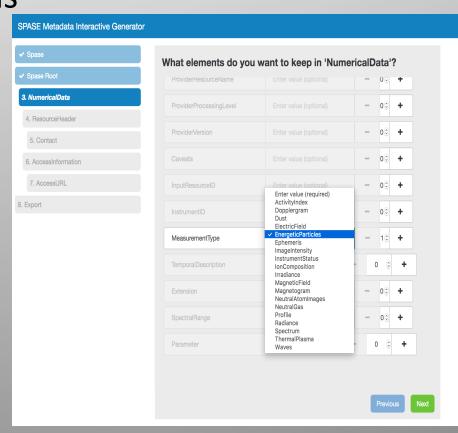
- ISWI Data Policy consists of
 - Policy statements
 - Project data management plan (PDMP)
- The policy stipulates that all ISWI data should be
 - Available promptly after their acquisitions;
 - Accessible freely and openly;
 - Usable independently (calibrated, documented, in standard formats);
 - Utilized with compliance to the rules of the road.
- The PDMP consists of individual instrument PDMPs
 - Represent teams' commitment to support ISWI
 - Describe the instruments, data products, access methods, etc.
 - Maintained by instrument teams

Use Standards to Develop "Lingua Franca" for Removing Technical Barriers

- Standard data formats
 - Data organization
 - CDF, HDF, netCDF, FITS, ASCII, etc.
- Standard data access protocol
 - Data retrieval
 - Heliophysics Application Programming Interface (HAPI)
- Standard metadata model & data dictionary
 - Data descriptions and search mechanism
 - SPASE

SPASE--Space Physics Archive Search & Extract <www.spase-group.org>

- Community-developed metadata model
- Designed for heliophysics datasets
 - Observations & simulations
- Metadata are stored in XML documents
- Web-based editor under development
 - Will be available to all instrument data providers



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