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Meteorological Service of Canada's Data Management Initiative



Data
Management
Initiative

*WORKING TOGETHER TO STRENGTHEN
THE FOUNDATION FOR SCIENCE,
PRODUCTS AND SERVICES*

**WOUDC Workshop
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Why data management is important

- **Data is the foundation of EC science, products and services**
- **Data management problems are limiting achievement of results.**
- **Fixing problems will significantly contribute to more results, achievements of priorities and benefits for Canadians**

What we are working towards

Data Management Vision

- WES's data assets are effectively and efficiently managed to inform decision making.

DMI Mission

- To provide leadership in the management of WES's data assets to meet the principal needs of priority internal and external clients.

Goal

- WES's data assets are effectively processed in real-time, are of known quality and effectively stored to facilitate easy discovery, access, use, expand and exchange.

Priorities

- Support priority WES initiatives: Prediction renewal (NinJo), Warning/Alerts reengineering (CAP), and dissemination/access enhancement (WeatherOffice and Climate on line)
- Renew management of and access to data assets

How we are going to get there

1. Continue the development of a data management framework
2. Accelerate renewal of Data Management Systems and business processes: real time, near real time, archive, data acquisition, monitoring asset management and software retirement of legacy systems.

Data Sharing – systems perspective

Short Term

- Create a data discovery portal: GeoConnections, Data.gov (U.S., U.K., Australia), ICONO
- Ingest key third party data (network strategies): NavCan, RWIN, MoF, Satellite, Lightning, Hydrometric, WMO

Long Term

- Explore options for linking data bases: ontology's, data models, semantic web
- Explore use of native quality assessment checks

Data Sharing Standards

- Data Exchange Formats: BUFR, METAR, **XML**, Flat files, KML, ShapeFiles
- Dataset Metadata (discovery, access, identification, quality and constraints): ISO 19115
- WMO Classification Framework (instruments): Network classification