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Weather – Climate - Water

WMO Information System (WIS)

Managing & Moving Weather, Water and Climate Information in the 21st Century

Report to WG-PIW RA VI 15-19 September 2008

Presented by David Thomas (PM-WIS)

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WG-PIW RA VI

Technical Conference on RA VI Action Plan

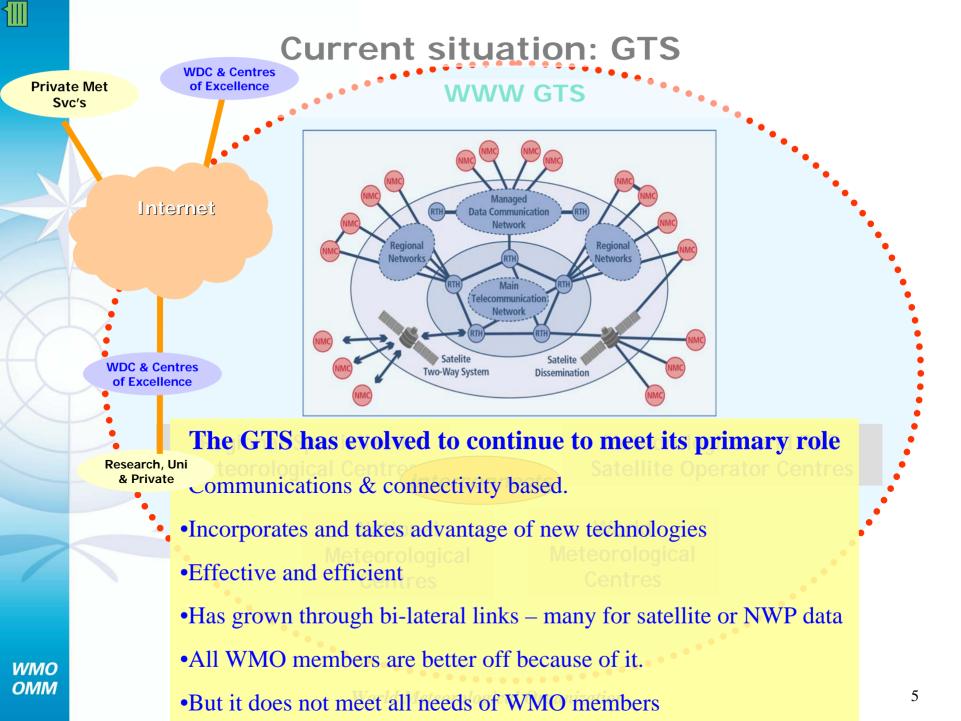
- typical questions:
- What is WIS and why is WMO going this way?
- What is happening to the GTS?
- How does WIS relate to WG-PIWs?
 - Isn't the European VGISC project looking after all this?
- Will WIS lead to changes in the WG-PIW plans and priorities?
- What is the time frame of WIS?

WMO Objectives

- To produce more accurate, timely and reliable forecasts and warnings of weather, climate, water and related environmental elements;
- To improve the delivery of weather, climate, water and related environmental information and services to the public, governments and other users;
- To provide scientific and technical expertise and advice in support of policy- and decision-making and implementation of the agreed international development goals and multilateral agreements.



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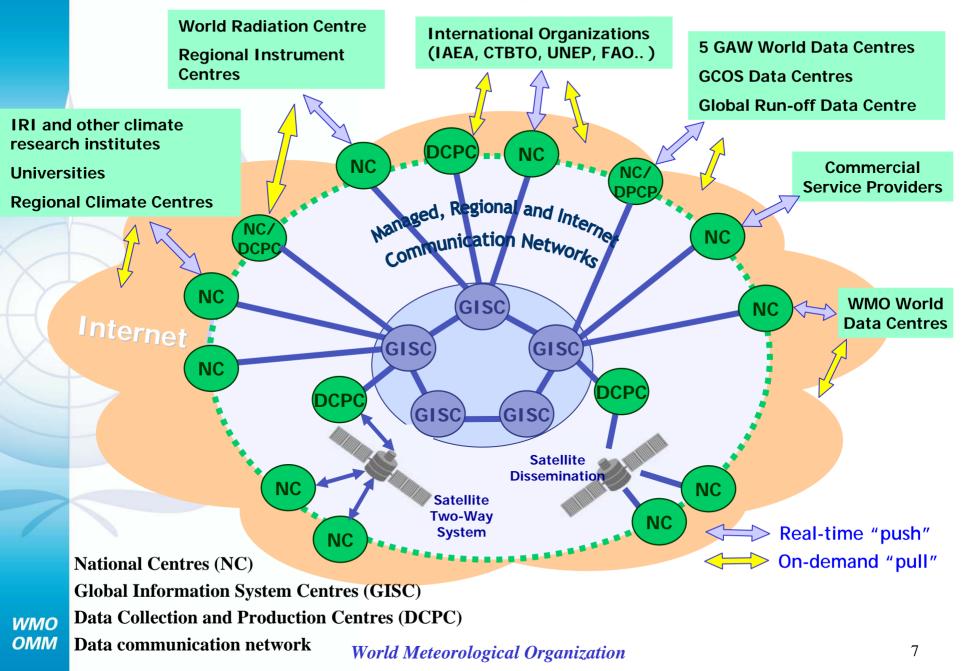


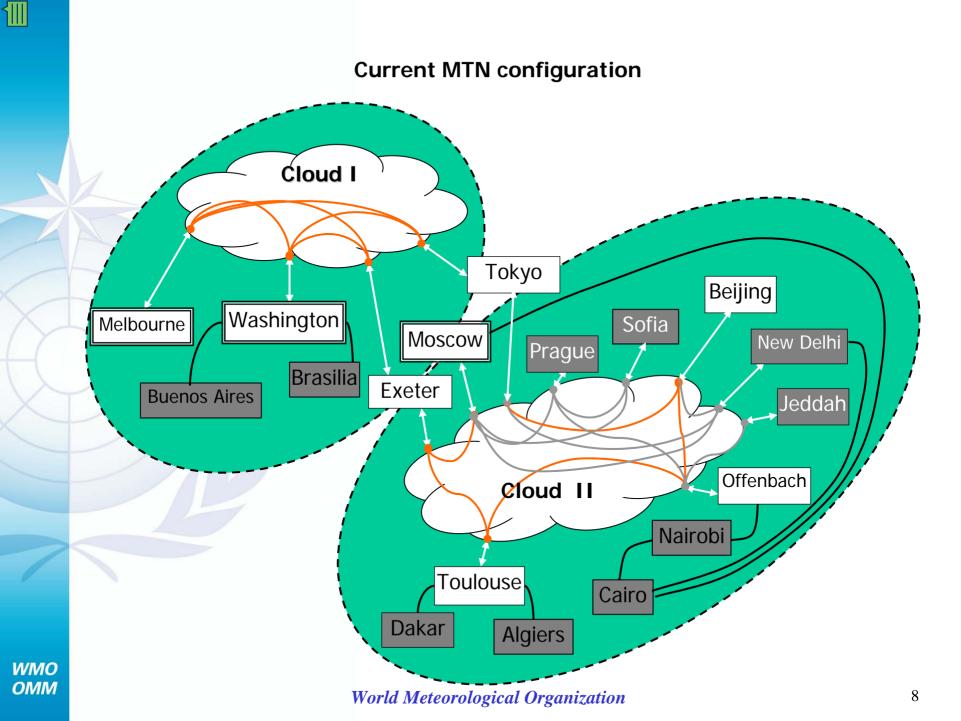
Goals of WIS

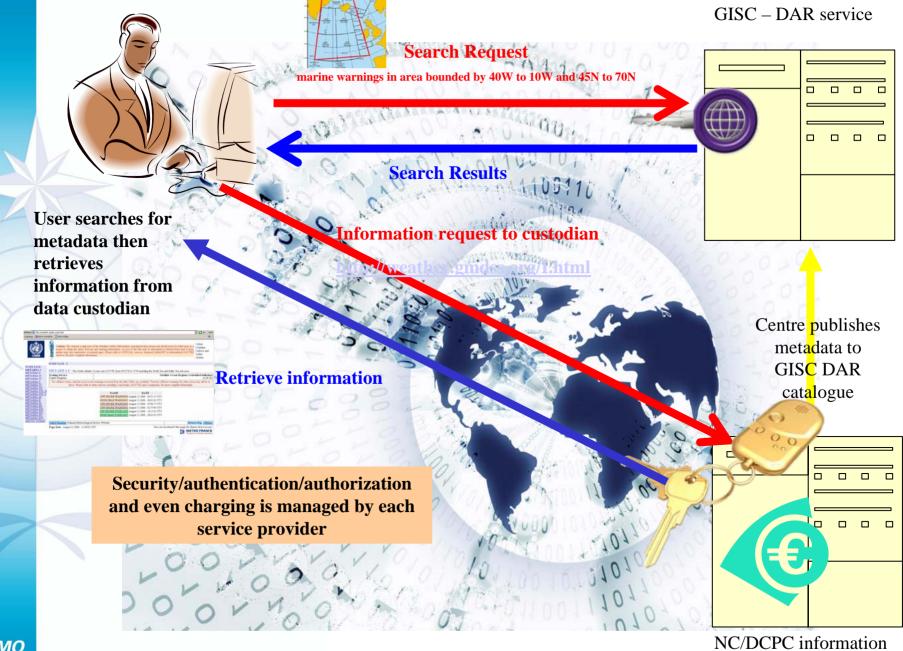
- GTS needs to be open to all WMO activities to provide time critical information exchange
- Internet should be a part of WIS to allow support of less critical requirements
- The continuous improvement and adaptation of new technologies in the GTS should be maintained.
- The WIS should be open to more than just WMO programs allowing partners to participate
- Need seamless discovery, access and retrieval (DAR) across all WMO systems, including collaborators and partners.



WMO Information System (WIS)







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access service

Key activity milestones (Part A)

- Consolidate WIS plans: up to 2008
- Develop regulatory documents: up to 2008
 - WIS technical compliance standards (drafted)
 - Interfaces compliant with GEOSS 10 year plan
 - Ditto, for INSPIRE & GMES
 - User requirements being documented (drafted)
 - Functional architecture documented (drafted)
- WIS guidelines and manuals: up to 2011 and beyond
 - Outline under draft with Guidelines on WIS due 2009
 - Other manuals to follow (coordinated with WIGOS) => 2015
- Cont Improvement of GTS capability: Ongoing

Key activity milestones (Part B)

- Development of metadata standard: up to 2008
 - WMO profile of ISO19115
 - Basically an implementers guide
- Implement first operational GISC: 2009
 - European VGISC started tender process (Germany, France & UK)
 - DCPC partners are ECMWF, EUMETSAT, Norway
 - NCAR and Russia NODC remain active participants
 - Russia GISC in early development
 - China/Japan collaborating on RA II GISC
 - USA WIS catalogue online soon (Staged GISC implementation)
- Implement other operational GISCs: 2009 2011
 - Australia before 2011
 - India and Saudi Arabia both planning for major WIS centres
- Implement DCPCs: 2008-2011
 - Commissions beginning to identify DCPCs
 - WIGOS Pilot Projects assisting in moving DCPCs forward *World Meteorological Organization* 11

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Essential Reading

- WIS Project & Implementation Plan (WPIP)
- WIS Functional Architecture
- WIS Compliance specifications for GISC, DCPC & NC

Under development

- WIS Rolling Review of requirements (WPIP)
- Guidelines on WIS

WG-PIW (1)

- What is WIS and why is WMO going this way?
 - WIS is necessary to ensure all WMO information is available to all WMO users and to ensure long term sustainability of all WMO information systems.

• What is happening to the GTS?

- The GTS remains as an integral part of WIS and will continue to be improved as well as being made available to all WMO programs for the sharing of operational and time critical information.

• How does WIS relate to WG-PIW?

- Isn't the European VGISC project looking after all this?
- The VGISC project is a key component of the implementation of WIS. As well as providing the first GISC functionality, especially the WIS catalogues, it also helping to write all the specifications and documentation on WIS.
- However, the WG-PIW is the group that will be implementing WIS components that will allow each country to participate and benefit from WIS.
- Remember that WIS "is" Members systems, not something someone else is doing
- Also note that EC-LX stressed that the support and involvement of regional associations and technical commissions in WIS development was a crucial factor for ensuring a successful implementation and a shared ownership of the system.

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WG-PIW (2)

- Will WIS lead to changes in the WG-PIW plans and priorities?
 - WIS will be implemented with no detriment to existing services however, to get the benefits of WIS, WG-PIW will need to ensure the systems they manage are compliant with WIS.
 - The biggest change is the need to describe products and services utilizing ISO19115 to meet the metadata compliance. Meteo France is doing much of this for the GTS traffic, but WG-PIW will need to create metadata for additional products and its services
 - The WG-PIW will also need to take a lead role in understanding the functionality of WIS and in showing others how to make the most of its new features.
- What is the time frame?
 - WIS is now in its implementation stage and we expect the first GISC online next year. Once a WIS catalogue is up and running, WG-PIW can start to register products and services. Most time critical operations and many countries should be fully WIS compliant by 2011. Remaining countries and less critical components by 2015.

Further information

• Visit the WIS reference documents site from

http://www.wmo.int/pages/prog/www/WIS-Web/home.html



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WMO Information System

http://wis.wmo.int

The WMO Information System (WIS) is an overarching approach and a single coordinated global infrastructure for the collection, distribution, retrieval of, and access to data and information of all WMO and related programmes.

What is WIS?	ICG AND ET'S
Objectives	ICG-WIS - Inter-Commission Coordination Group on WIS
Reference Documents	ET-CTS - Expert Team on WIS-GTS, Communication Techniques and Structure
WIS Data Communication Structure	ET-WISC - Expert Team on WIS GISCs and DCPCs
WIS Centres	IPET-MI - Inter-Programme Expert Team on Metadata Implementation
Metadata	PILOT PROJECTS
QUESTIONNAIRE	MEETINGS and REPORTS
NEWS	LINKS
CONTACT	FORUM

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