

World Meteorological Organization

Weather • Climate • Water

Progress and future directions of the WMO Information System

Peiliang SHI WMO 18/11/2013, Reading



Topics

- Introduction to WIS
- Status of WIS
- Exploiting WIS
- Future directions



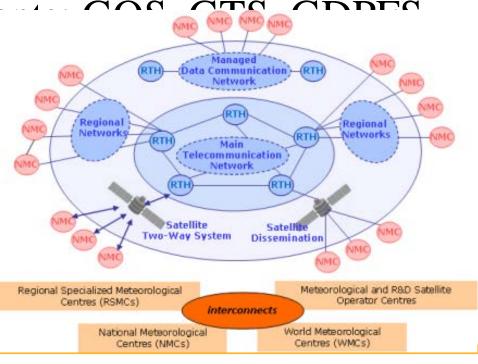
Introduction to WIS



World Weather Watch

• Launched in 1963, to support global collaboration in operational weather forecasting and weather research

 Three core componed GTS - the Global Telecommunication System: collects, exchanges, and distributes observational data and forecasting products





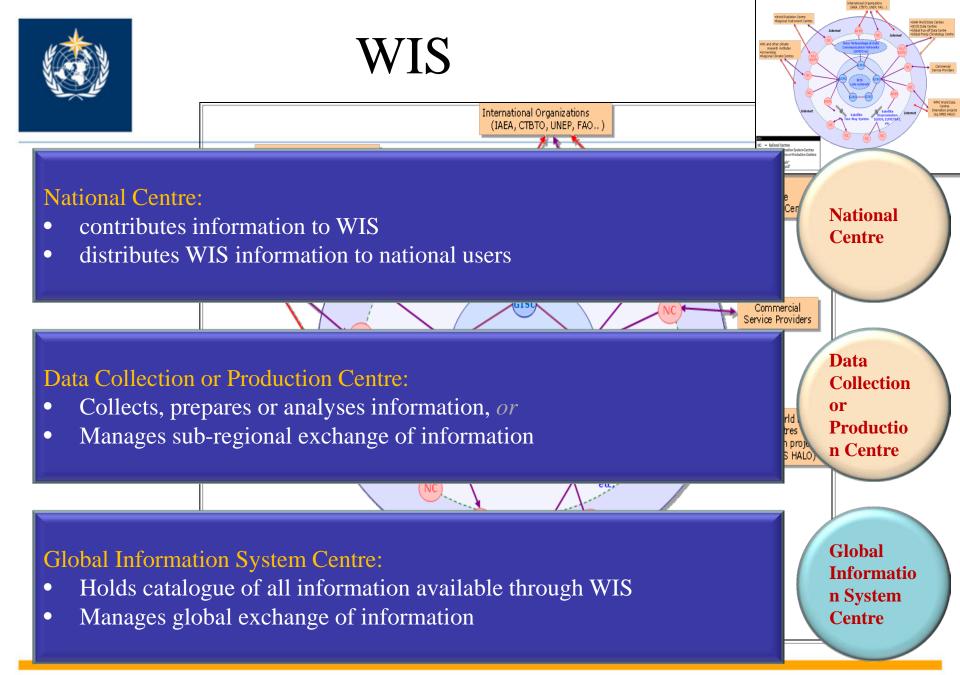
Limitations of GTS

- GTS is Reliable But...
 - Difficult to know what is there
 - Need special connections
 - Hard to set up routine delivery
 - "WWW club"



WMO Information System (WIS) aims to...

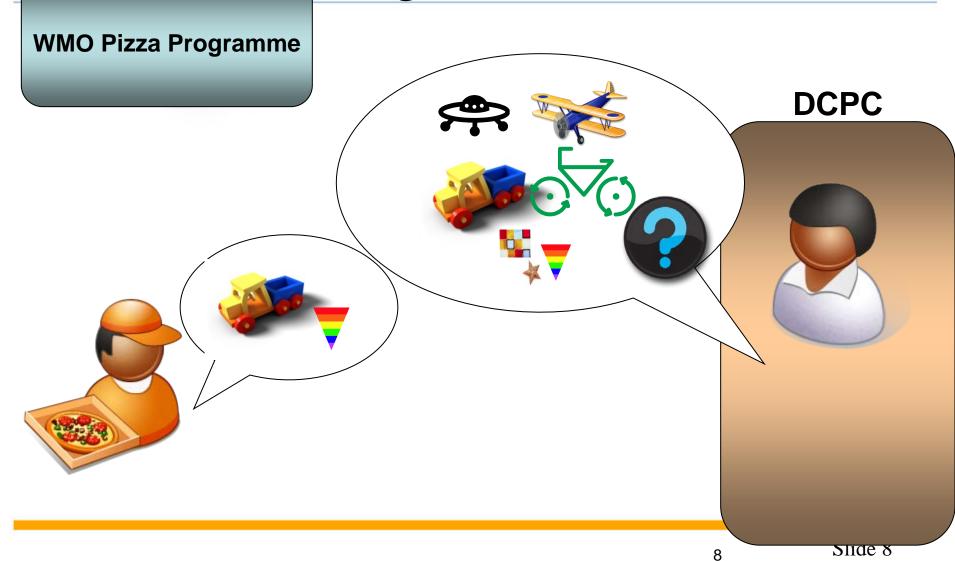
- Add to GTS
- Make it easier to
 - find data
 - fetch data
 - *publish* data
- Serve whole WMO community
- Allow migration to new technologies



Slide 7

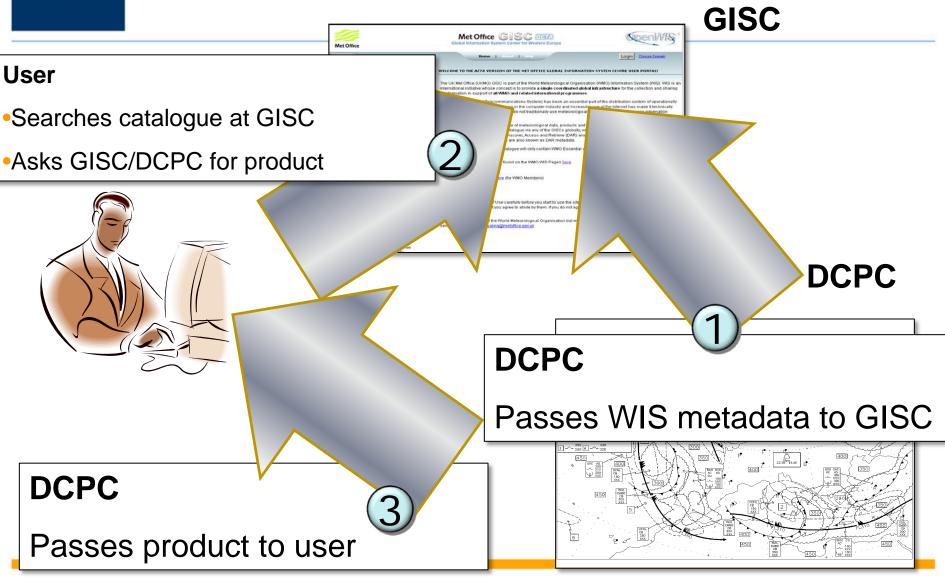


Adding data to WIS





Discovery, Access, Retrieval



Slide 9



Status of WIS implementation

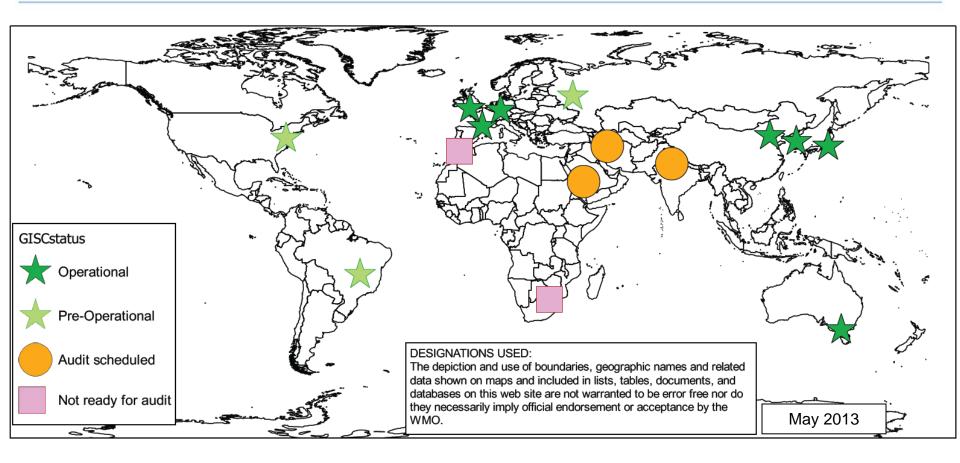
WIS became operational in Jan. 2012

There are now

- 15 GISCs
- 130 DCPCs
- 230 NCs
- 150,000 metadata records in the global catalog, and increasing...

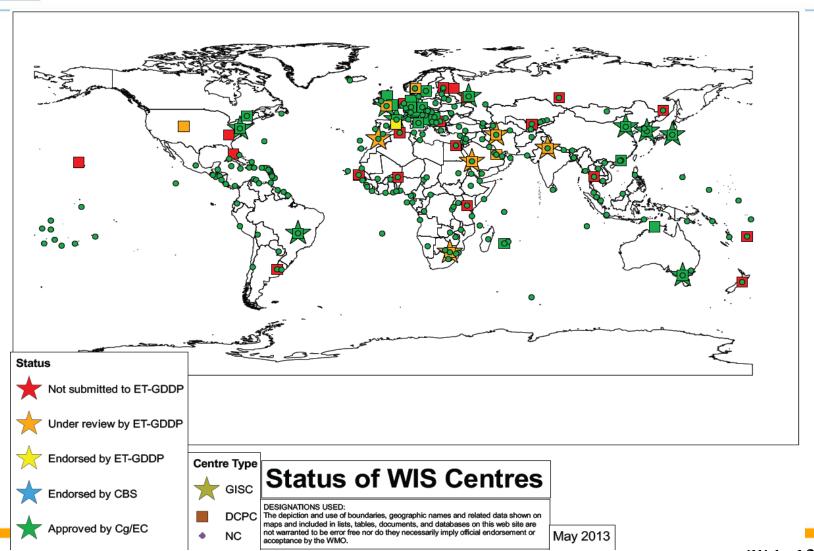


Status of Global Information System Centres





WIS Centres – May 2013





Some well known DCPCs

- ECMWF
- EUMETSAT
- NCAR
- NESDIS-NCDC/NODC/NGDC
- GRDC
- WDCs for GHG, Ice

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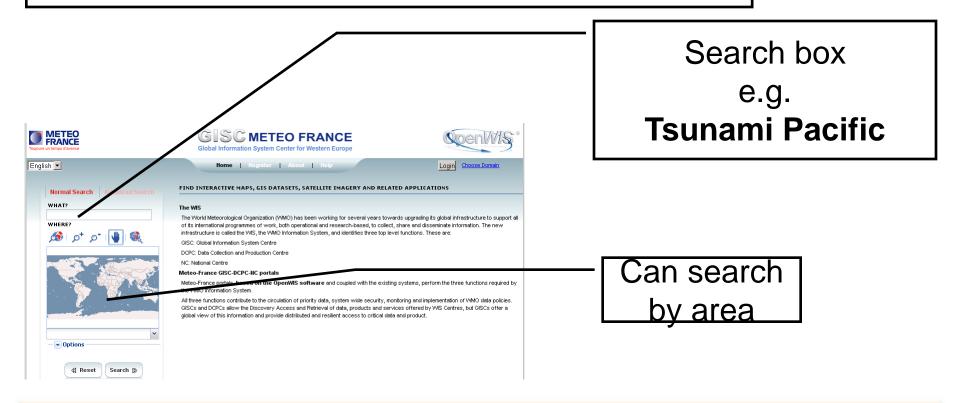
Exploiting WIS



Find the information

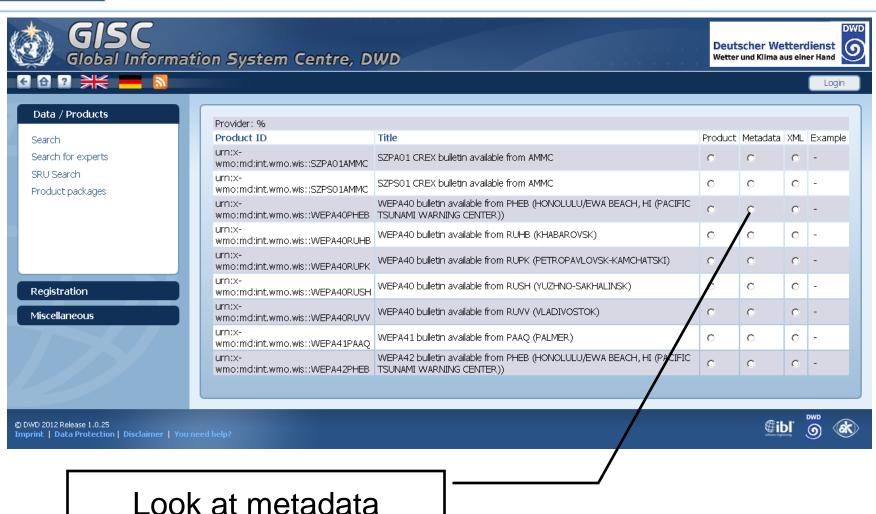


http://www.wmo.int/giscs





Select which record is of interest





Check that it is what you need





And then download or ask for as routine





Future directions of WIS

- Assist data providers to make their data discoverable through WIS
- Support the integration of different observing systems
- Support the implementation of climate services
- Improve data discovery interfaces, e.g. integrate basic tools for visualisation



How can you benefit from WIS?

- Have you accessed one of the GISC?
- Do you know the national focal point on WIS in your country?
- Is your centre WIS compliant?
 - Be compliant with WIS technical standards, eg. WMO core metadata profile
 - Choose a GISC as your principal GISC
 - Upload your metadata to your principal GISC, and update them when new data are available



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Thank you for your attention

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