

### World Meteorological Organization

Working together in weather, climate and water

# Making Information Accessible

GFCS, WIGOS and WIS

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World Meteorological Organization



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- Why GFCS, WIGOS and WIS?
- What are GFCS, WIGOS and WIS?
- Current state
  - Defining GFCS,
  - Building WIGOS,
  - Exploiting WIS



# Why GFCS, WIGOS and WIS?



# We need to change so that...

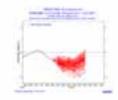




**GCW** 







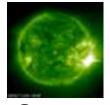


**Ash** 

**Forecasts** 

**Tsunami** 







**Aviation** 

Space Weather

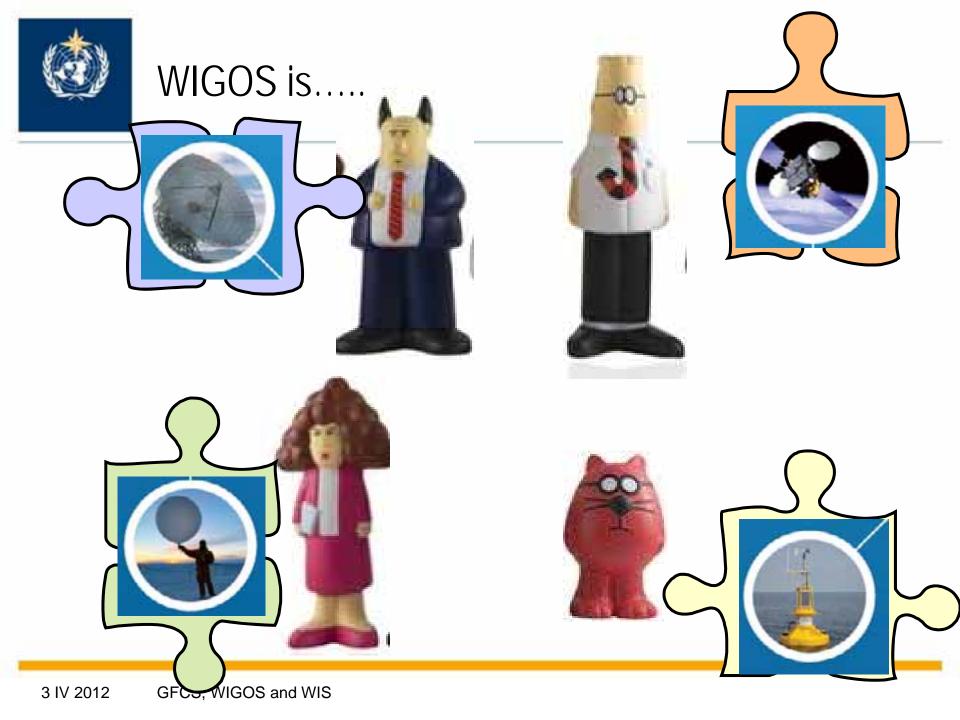
Health



## WIGOS aims to...

- Increase observation data exchange
- Broaden observation application
- Simplify observation access

and reduce observation costs



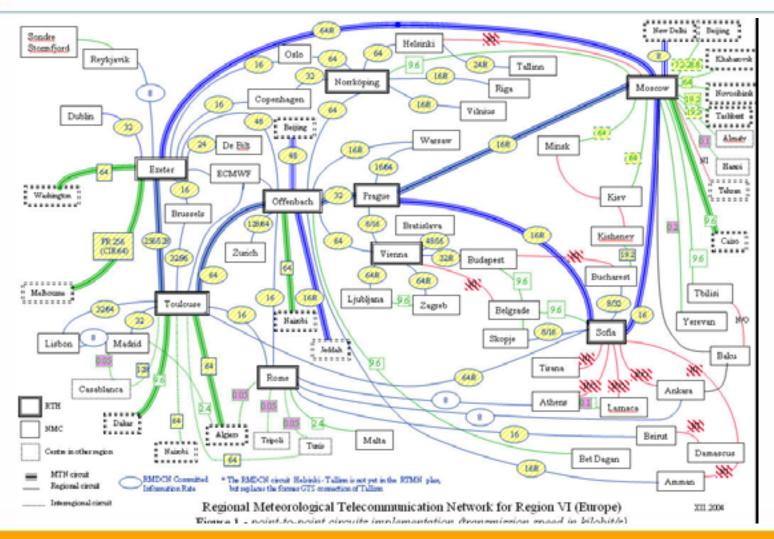


# WIS aims to...

- Increase data visibility
- Broaden data access
- Simplify data use

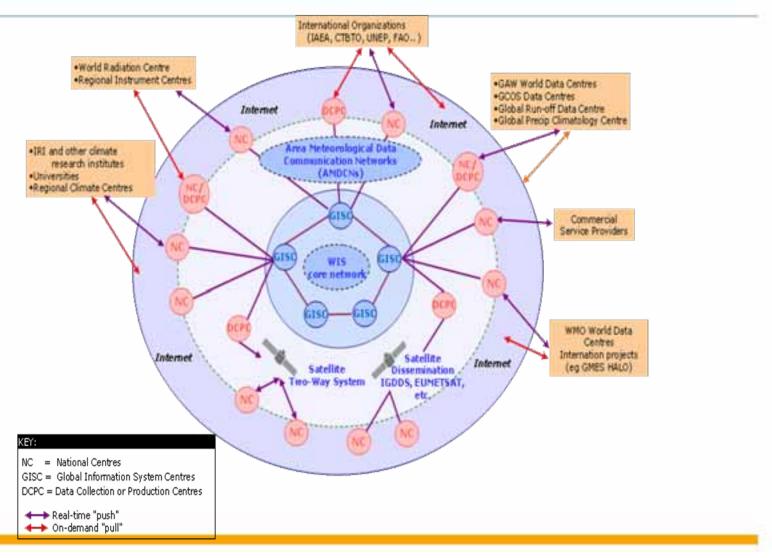


# The GTS is.....





# **WMO Centres**

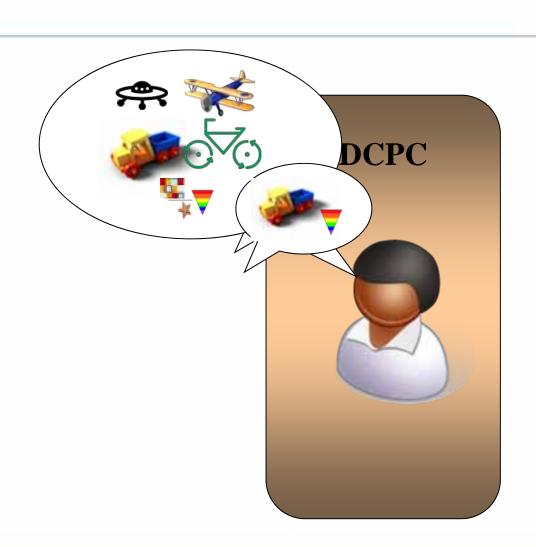




# Adding data to WIS

**WMO Pizza Programme** 







Search: Climate change for 48°N to 60°N and 10°W to 5°E

### **Search Results**

User searches for metadata then retrieves information from data custodian

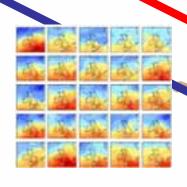
Information request to custodian

https://www.metoffice.gov.uk/precis/qump



**Retrieve information** 

Security/authentication/authorization and even charging is managed by each service provider



Centre publishes metadata to GISC DAR catalogue



NC/DCPC information access service

# GISC – DAR service



### Where are we?

- WIS became operational 1 January 2012
  - 2 Global Information System Centres
  - Several DCPCs
  - Metadata growing
- WIGOS
  - In planning phase
- GFCS
  - Proving the vision and the governance structure



### WIS Portal - GISC Tokyo





Search





Welcome to Tokyo Global Information System Centre!

Home About WIS Warning KML WMO format Metadata Help Desk News

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WDCGG - CH4 observation at Teriberka

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WDCGG - CO2 observation at Teriberka

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Keywords:	
North	
80	
West	
-10	
East:	
150	
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### Metadata urn:x-wmo:md:jp.go.jma.wis.dcpcwdcgg::p.TER669N00.CH4

WDCGG - CH4 observation at Teriberka

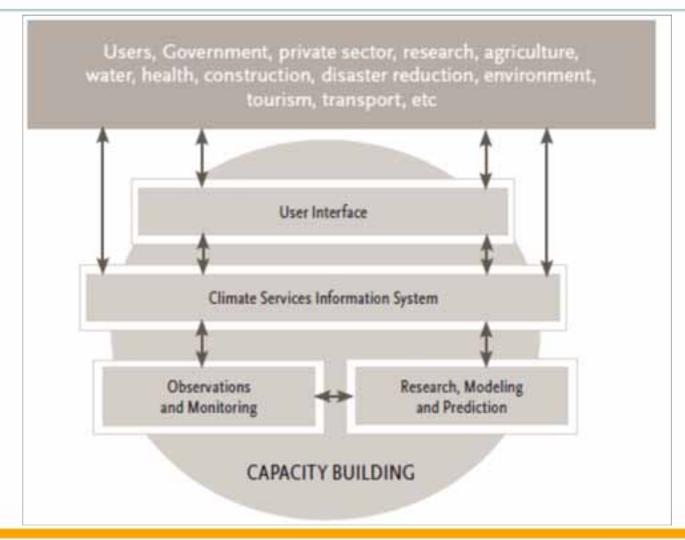
metadata detail
file identifier: um:x-wmo:md:jp.go.jma.wis.dcpc-wdcgg::p.TER669N00.CH4
language: eng
character set utf8
hierarchy level:dataset hierarchy level name: archive of point observation data for a parameter
contact
date stamp: 2011-12-05T09:03:29Z
metadata standard name: ISO 19115-2 Geographic information — Metadata — Part 2:
Extensions for imagery and gridded data
metadata standard version: ISO 19115-2:2009-02-15
reference system info
reference system identifier
code: WGS 84
code space: The World Geodetic System 1984
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URL:http://www.wmo.int/pages/prog/wis/2010/metadata/version_1-2 name: WMO Core Profile version 1.2
identification info
distribution info



# WIGOS

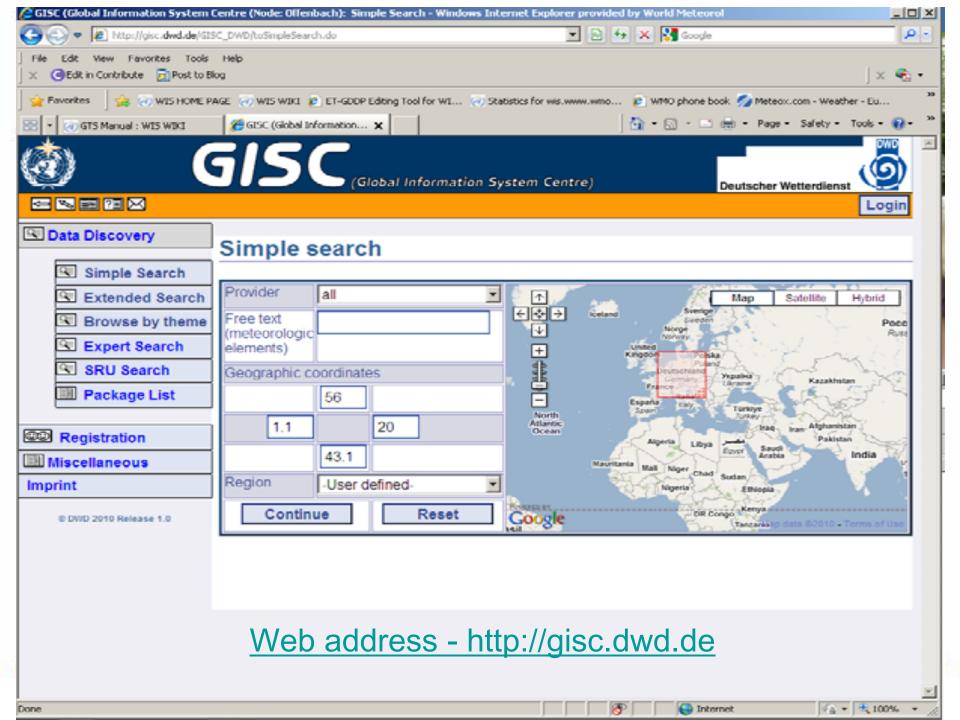














# GISC - Tokyo

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