



**WMO**

World Meteorological Organization

Working together in weather, climate and water

# Making Information Accessible

# WMO Information System

*Steve Foreman*

*World Meteorological Organization*



# Contents

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- Why WIS?
- What is WIS?
- Exploiting WIS



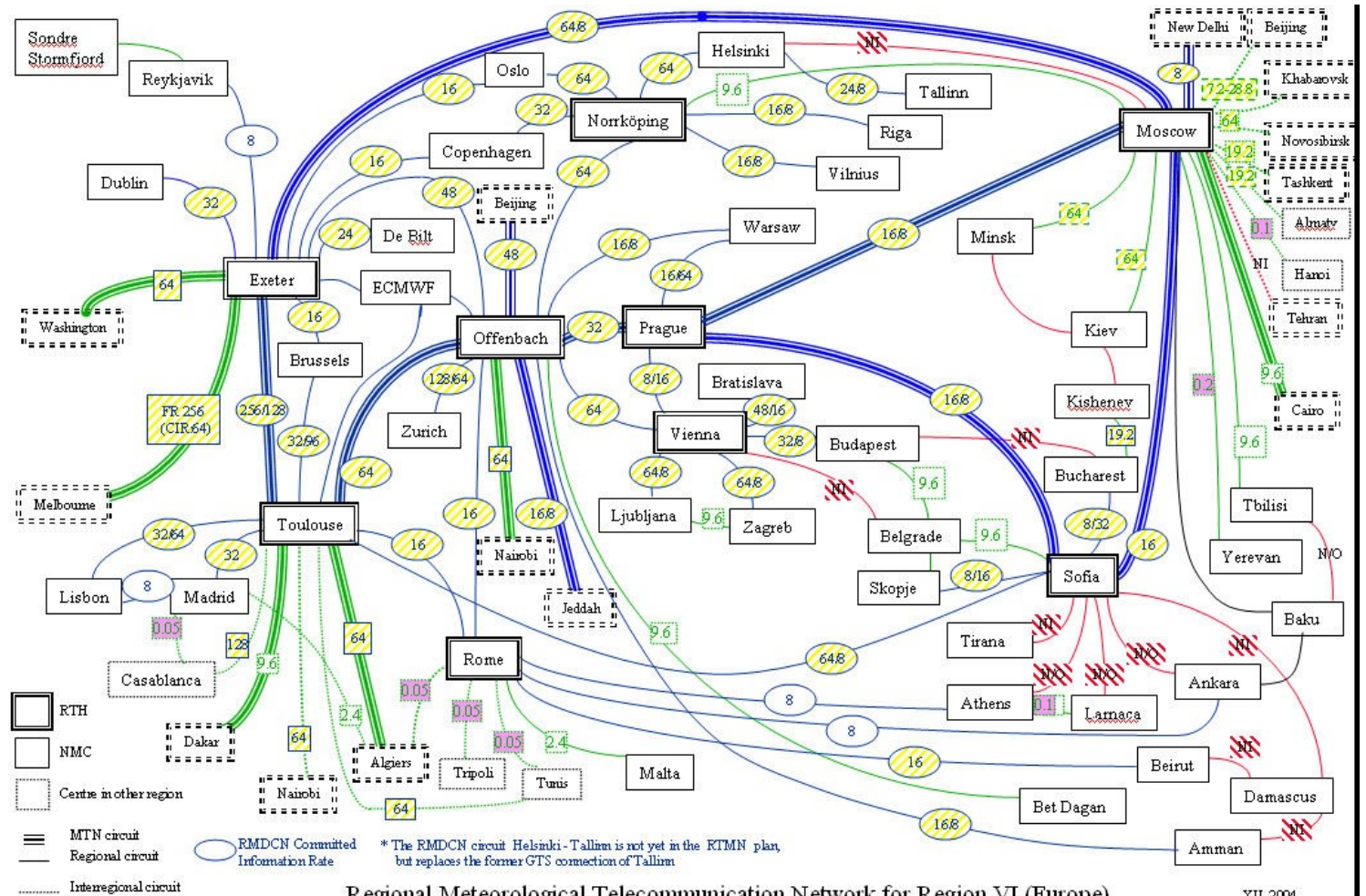
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Why WIS?

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# The GTS is.....



Regional Meteorological Telecommunication Network for Region VI (Europe)

Figure 1 - point-to-point circuits implementation (transmission speed in kilobit/s)

XII.004



## WIS aims to...

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



So that..



**GAW**



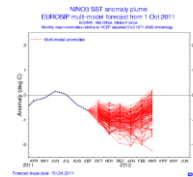
**GFCS**



**GCW**



**Ash**



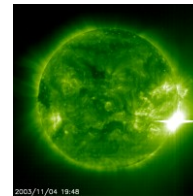
**Forecasts**



**Tsunami**



**Aviation**



**Space**

**Weather**



**Health**



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What is WIS?

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# Architecture components

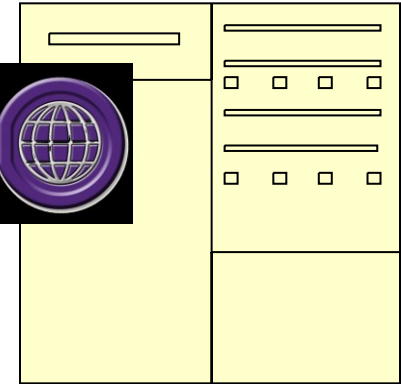
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|---|--|
| <ul style="list-style-type: none"><li>• Uploading of <b>Discovery Metadata</b> for Data and Products<ul style="list-style-type: none"><li>– DAR Metadata Catalogue</li></ul></li><li>• <b>Uploading of Data</b> and Products<ul style="list-style-type: none"><li>– Cache of current Globally Distributed Data</li></ul></li><li>• <b>Discovery, Access and Retrieval (DAR)</b></li><li>• <b>Downloading</b> Data &amp; Products<ul style="list-style-type: none"><li>– via Dedicated Networks</li><li>– via Non-dedicated Networks</li><li>– via Other Methods</li></ul></li></ul> | <ul style="list-style-type: none"><li>• <b>Maintenance of Dissemination Metadata</b><ul style="list-style-type: none"><li>– Dissemination Metadata Catalogues</li></ul></li><li>• Maintenance of <b>User Identification and Role</b> Information<ul style="list-style-type: none"><li>– Sharing of Identification and Role Information</li><li>– User Authentication</li><li>– Authorization of a User Role</li></ul></li><li>• <b>Reporting of Quality of Service</b></li></ul> |
|---|--|





### Search Request

marine warnings in area bounded by 40W to 10W and 45N to 70N



### Search Results

User searches for metadata then retrieves information from data custodian

Information request to custodian

<http://weather.gmdss.org/I.html>

### Retrieve information

Centre publishes metadata to GISC DAR catalogue



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

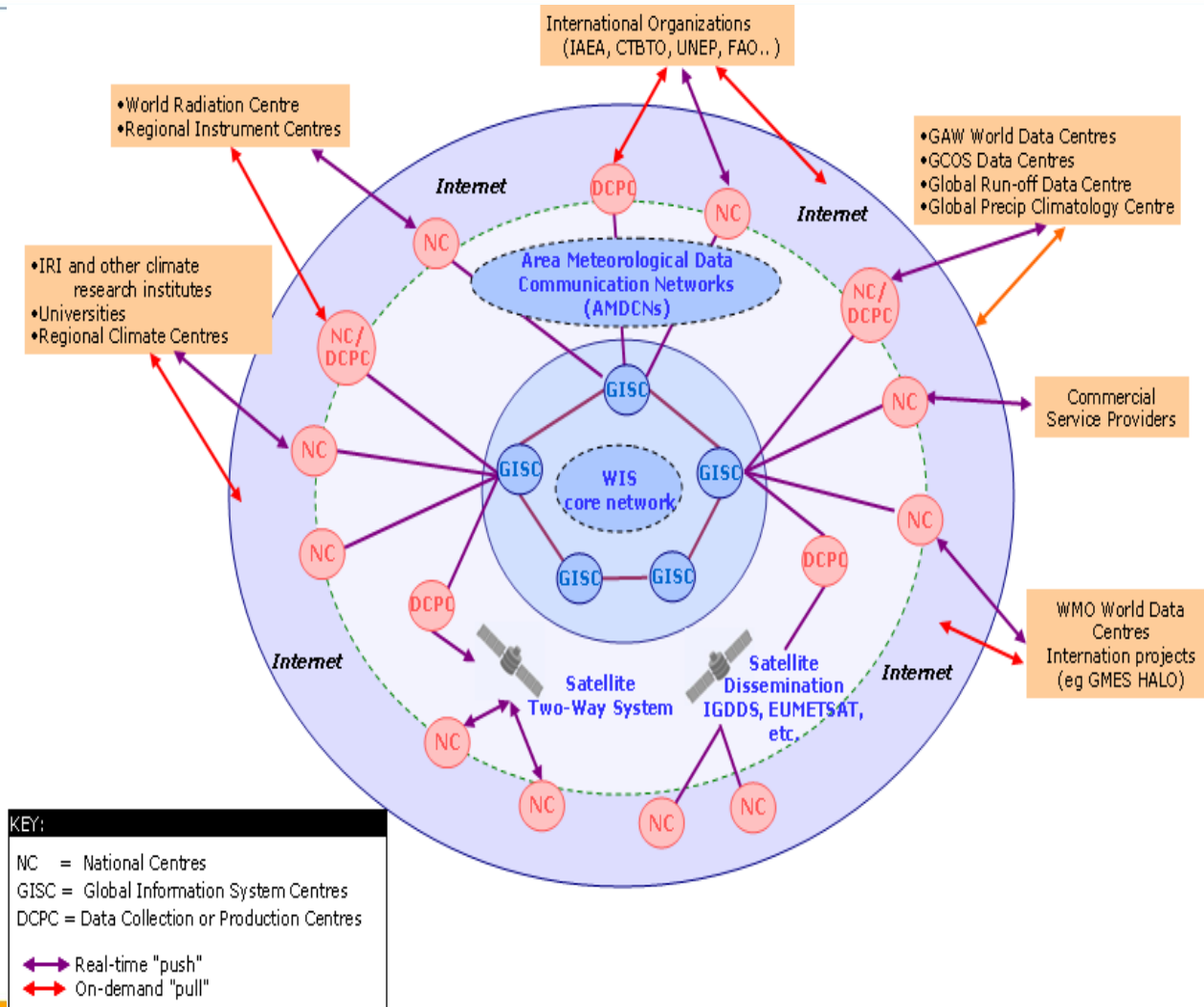


NC/DCPC information access service

# GISC – DAR service



# WMO Centres





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# Exploiting WIS

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# What you can do



Remove the guesswork  
- provide the metadata



Accept others' formats



Stick to the  
standards  
yourself



- Data Discovery
  - Simple Search
  - Extended Search
  - Browse by theme
  - Expert Search
  - SRU Search
  - Package List
- Registration
- Miscellaneous
- Imprint

### Simple search

Provider: all

Free text (meteorologic elements):

Geographic coordinates:

56

1.1 20

43.1







Region: -User defined-

Continue Reset




Web address - <http://gisc.dwd.de>

Data Discovery

-  Simple Search
-  Extended Search
-  Browse by theme
-  Expert Search
-  SRU Search
-  Package List

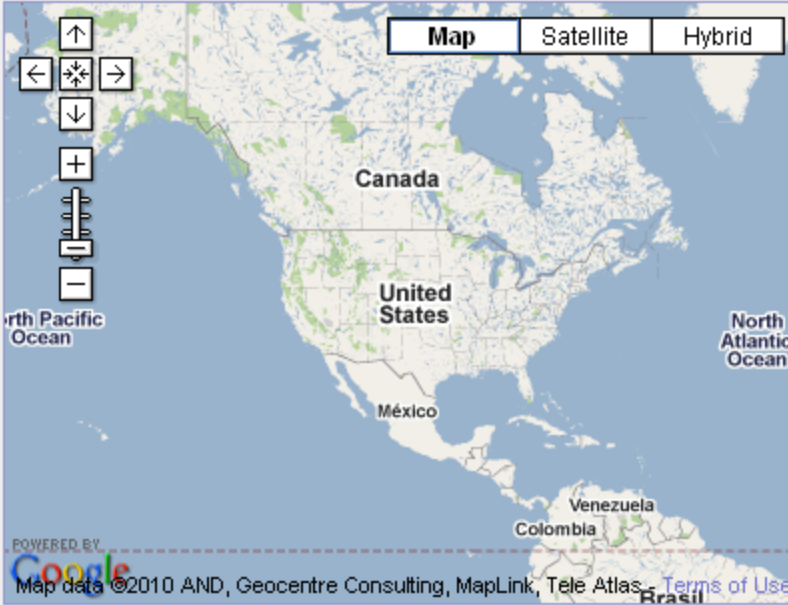
 Registration

 Miscellaneous


Imprint

## Simple search

Provider	all	
Free text (meteorologic elements)	metar	
Geographic coordinates		
	56	
1.1		20
	43.1	
Region	-User defined-	
<input type="button" value="Continue"/>		<input type="button" value="Reset"/>



Map showing search results for 'metar' in the North Pacific Ocean region. The map includes labels for Canada, United States, México, Venezuela, Colombia, and Brasil. Navigation controls (pan, zoom, full screen) are visible on the left side of the map.

POWERED BY  Map data ©2010 AND, Geocentre Consulting, MapLink, Tele Atlas. [Terms of Use](#)



Data Discovery

- Simple Search
- Extended Search
- Browse by theme
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- Package List

Registration

Miscellaneous

Imprint

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Provider: %					
PID	Title	Next level	Show metadata	Get XML doc	Show demo
int.wmo.gts.KS	GTS-bulletin: CREX	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
int.wmo.gts.SA	GTS-bulletin: surface data (Aviation routine reports)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	





Matches: 35

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Simple search: int.wmo.gts.SA

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- [Extended Search](#)
- [Browse by theme](#)
- [Expert Search](#)
- [SRU Search](#)
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PID	Title	Get instances	Show metadata	Get XML doc	Show demo
int.wmo.gts.SACN40_CWAO	GTS-bulletin: surface data (Aviation routine reports) offered by MONTREAL/CANADA, provided by RTH: WASHINGTON	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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int.wmo.gts.SACZ43_LKPW	GTS-bulletin: surface data (Aviation routine reports) offered by PRAGUE/CZECH REPUBLIC, provided by RTH: PRAGUE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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