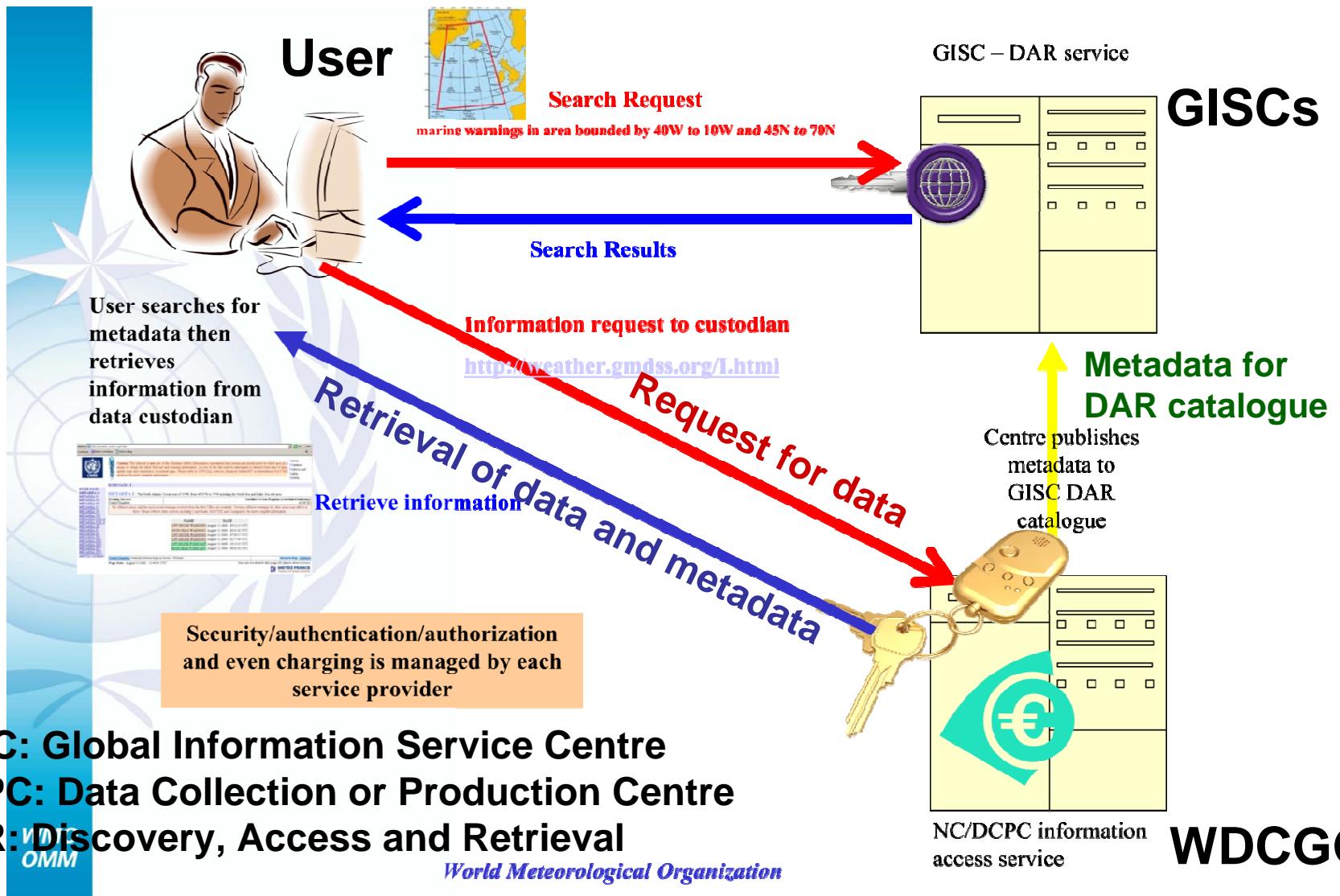




WMO World Data Centre for Greenhouse Gases (WDCGG)

SUDA Kazuto
Senior Coordinator for
Global Atmosphere Watch
Japan Meteorological Agency

WMO Information System (WIS)



A Global Information Service Centre (GISC) to be established in Tokyo



SRU Search

placekey = minamitorishima

3 records found.

[Alphanumeric SYNOP from Japan at Tokyo Metadata](#)

GTS Bulletins provided at blog server of GISC Tokyo. .

Z__C_RJTD_20100225114910_UUID_5EA2F5E8-FCC9-3C19-6FC3-2C3E0F0D4011.met. 2010-02-25 11:49:10.

[Alphanumeric TEMP from Japan at Tokyo Metadata](#)

GTS Bulletins provided at blog server of GISC Tokyo. .

Z__C_RJTD_20100225114902_UUID_7D93758A-B7CF-36CC-E890-F296E7855E20.met. 2010-02-25 11:49:02.

[Greenhouse gases at Minamitorishima observed by JMA](#)

Air sampling observation of CO2 at Minamitorishima.

Z__C_RJTD_-----UUID_5B8BE406-027C-3DBA-AA8D-A1C1F87B1EAE.met. 2010-03-23 00:00:00.

An example of metadata for Discovery, Access and Retrieval (DAR)

Greenhouse gases at Minamitorishima observed by JMA

Identifier	
Title	Greenhouse gases at Minamitorishima observed by JMA
Abstract	Air sampling observation of CO2 at Minamitorishima
Content:	Subject keyword: chemistry, global warming, greenhouse gas, climatology, global environment, WMO/GAW Theme keyword: JMA, CO2, Air sampling observation, continuous, hourly, daily, monthly, JMA Format: WDCGG format, PNG, PDF
Place:	Bounds: (24.28N – 24.28N), (153.98E – 153.98E) Keywords: Minamitorishima, Japan, REGION II (Asia), Stationary, Ground base, MNM, Global
Height:	Keywords: Surface
Time:	Coverage: from 1993-01-01 to 2009-12-31.
Distribution:	URL: http://gaw.kishou.go.jp/cgi-bin/wdcgg/accessdata.cgi?index=MNM224N00-JMA&param=200612120017&select=parameter Access: • agreement on terms required Audience: open to the public Redistribution: • restricted Use: • advance notification required for publication • WDCGG Data Submission and Dissemination Guide • GAW Report No.188
Contact on data content:	Originator: Japan Meteorological Agency Contact: http://gaw.kishou.go.jp/cgi-bin/wdcgg/accessdata.cgi?index=MNM224N00-JMA&param=200612120017&select=parameter&parac=contact
Contact on this metadata	Distributor: WDCGG Contact: mailto:wdcg@met.kishou.go.jp Datestamp: 2010-03-23 Update: annually

```
<?xml version="1.0" encoding="iso8859-1" ?>
<jmd:metadata xmlns:jmd="http://www.gisc.kishou.go.jp/xsd/jmd0.1">
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<jmd:mdcycle>annually</jmd:mdcycle>
<jmd:wisorg>WDCGG</jmd:wisorg>
<jmd:wiscont>mailto:wdccg@met.kishou.go.jp</jmd:wiscont>
<jmd:subjkey>chemistry</jmd:subjkey>
<jmd:subjkey>global warming</jmd:subjkey>
<jmd:subjkey>greenhouse gas</jmd:subjkey>
<jmd:subjkey>climatology</jmd:subjkey>
<jmd:subjkey>global environment</jmd:subjkey>
<jmd:subjkey>WMO/GAW</jmd:subjkey>
<jmd:title>Greenhouse gases at Minamitorishima observed by JMA</jmd:title>
<jmd:abstract>Air sampling observation of CO2 at Minamitorishima</jmd:abstract>
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<jmd:themekey>CO2</jmd:themekey>
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<jmd:orgcont>http://gaw.kishou.go.jp/cgi-bin/wdccg/accessdata.cgi?index=MNM224N00-JMA&param=200612120017&select=parameter&parac=contact</jmd:orgcont>
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<jmd:placekey>Minamitorishima</jmd:placekey>
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<jmd:format>PDF</jmd:format>
<jmd:raccess>agreement on terms required</jmd:raccess>
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<jmd:rredist>restricted</jmd:rredist>
<jmd:ruse>advance notification required for publication</jmd:ruse>
<jmd:ruse>WDCGG Data Submission and Dissemination Guide</jmd:ruse>
<jmd:ruse>GAW Report No.188</jmd:ruse>
<jmd:url>http://gaw.kishou.go.jp/cgi-bin/wdccg/accessdata.cgi?index=MNM224N00-JMA&param=200612120017&select=parameter</jmd:url>
</jmd:metadata>
```

An example of metadata describing data that are archived at the WDCGG

 **WDCGG**

WMO Global Atmosphere Watch
World Data Centre
for Greenhouse Gases

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Minamitorishima - JMA

Parameter Inventory	Parameter Metadata	Station	Contributor
CH_4^{**} continuous	CO^* continuous	CO_2^{**} continuous	O_3^* continuous
Observation	Processing/Calibration	Contact Person	Reference
Data/Quick Plot			
Category	Air sampling observation		
Sampling Type	continuous		
Sampling Height/Depth	20		
Sampling and Analysis Frequency	Continuous flow of 0.5 liters per minute and data is analyzed every 30 seconds		
Sampling Environment	The observatory is located on a little isolated island in the western North Pacific, about 2000 km southeast of Tokyo. The observatory is surrounded by insignificant shrubs and grass.		
Measurement Method	NDIR		
Current status and history of Instruments	Jan. 1993 -present VIA-510R HORIBA, Ltd.		
Description of Instruments	Measurement range : 0 to 50 ppm Lowest detection limit: 1.0 ppm Repeatability: $\pm 1\%$ of full-scale Zero drift: <1% (full scale) per day Span drift: <2% (full scale) per week		
Time Zone	Local time (UTC+9)		
Data Period	1993-01-01 - 2009-12-31		

Information flow in the WIS DAR process

The screenshot shows the WIS PORTAL GISC Tokyo homepage with a green header bar containing links for Data Discovery, Data Delivery, Documentation, Registration, WIS Centers, Top Page, Search (SRU), Browse Catalogue, and 24h Cache of GTS data. Below the header, a section titled "Data Discovery, Access and Retrieval (DAR)" is displayed. It includes a brief description of DAR, links for Data Services, a DAR Catalogue and Metadata section, and a note about WIS centres publishing catalogues. A large blue arrow labeled "Discovery" points upwards from a user icon at the bottom left towards the DAR section.

- What are included in DAR metadata?

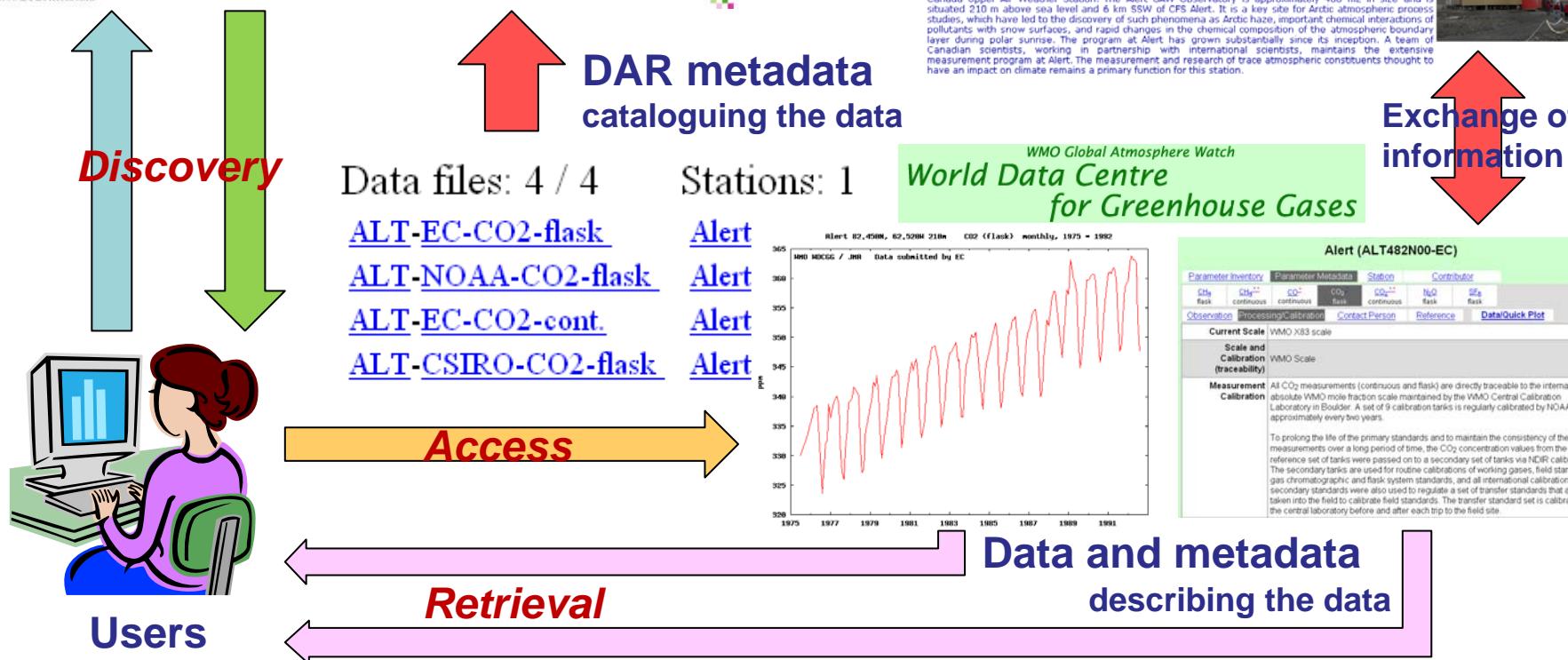
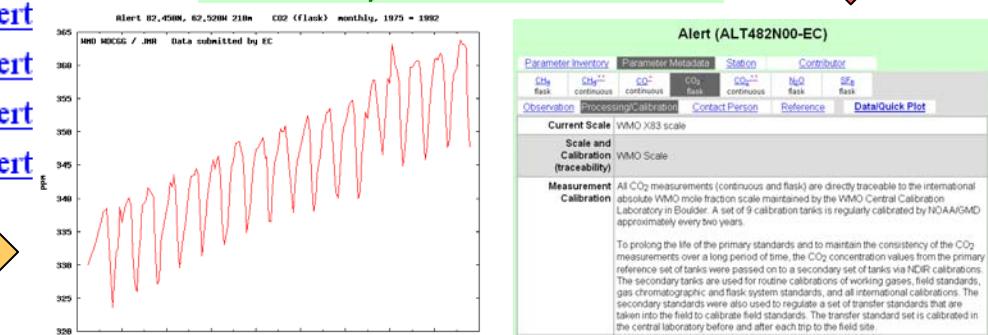


Station Characteristics

GAW ID	ALT
station status	established 1968 / full operation
time zone	UTC-5
climate zone	ET (Tundra climate)
other affiliations	CAPMON, NOAA-ESRL/CCG, NOAA-ESRL/AER/ALT, NDACC
description	In 1968, the Alert Background Air Pollution Monitoring Network (BAPMoN) Observatory was opened as Canada's first research station for the continuous monitoring of background concentrations of trace gases and aerosols. Currently, the Dr. Neill Trivett Global Atmosphere Watch Observatory at Alert is the most northerly site in the Global Atmospheric Watch network, located on the northern shore of Ellesmere Island, Nunavut, Canada at 82°22'N and 62°53'W, far removed from the major industrial regions of the Northern Hemisphere. Alert is also the site of a military station (CFS Alert) staffed with about 60 personnel, and an Environment Canada Upper Air Weather Station. The Alert GAW Observatory is approximately 400 m ² in size and is situated 210 m above sea level and 6 km SSW of CFS Alert. It is a key site for Arctic atmospheric process studies, which have led to the discovery of such phenomena as the Arctic ozone hole and the interaction of pollutants with snow surfaces, and rapid changes in the chemical composition of the atmosphere boundary layer during polar sunrise. The program at Alert has grown substantially since its inception. A team of Canadian scientists, working in partnership with international scientists, maintains the extensive measurement program at Alert. The measurement and research of trace atmospheric constituents thought to have an impact on climate remains a primary function for this station.

Alert (Canada)
Global fixed station in WMO RA IV - North/Central America
82.45000°N 62.51667°W (210 m a.s.l.)

WMO Global Atmosphere Watch
World Data Centre
for Greenhouse Gases



Interoperability of GAW WDCs

