WMO World Data Centre for Greenhouse Gases (WDCGG)

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with WDCGG staff members

Japan Meteorological Agency

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2. WIS Services Started
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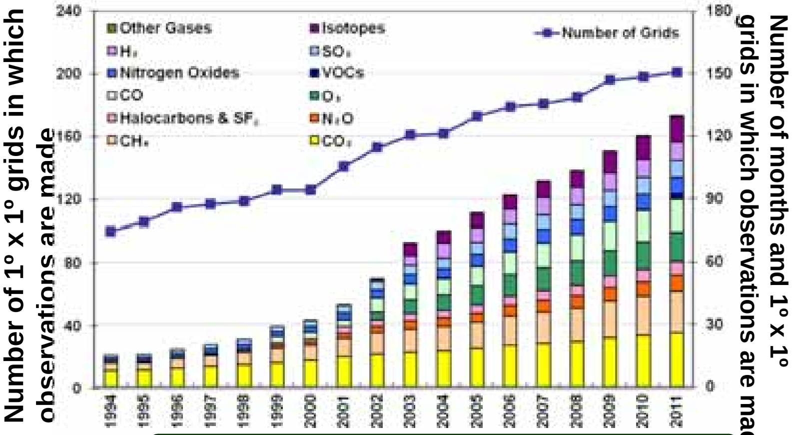
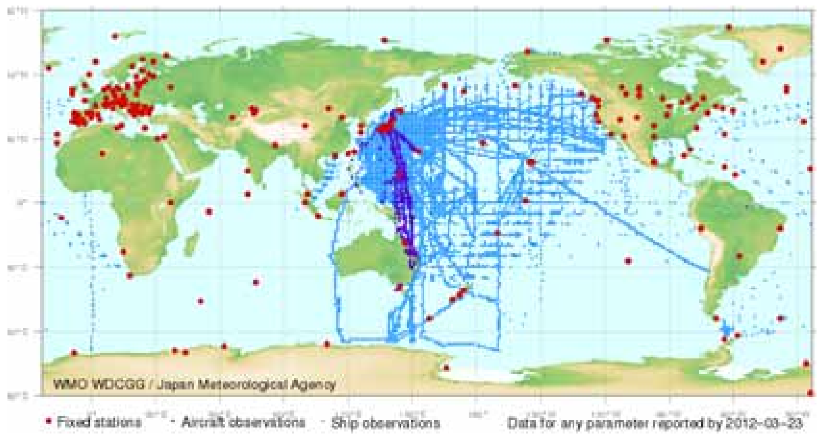
Development of total amount of WDCGG data archive

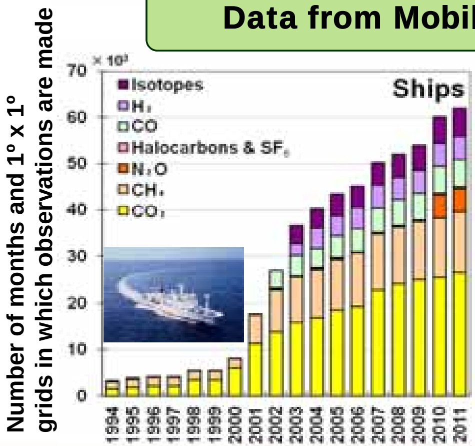
Increase of Archived Data
Covering Grid Number of Archived Data

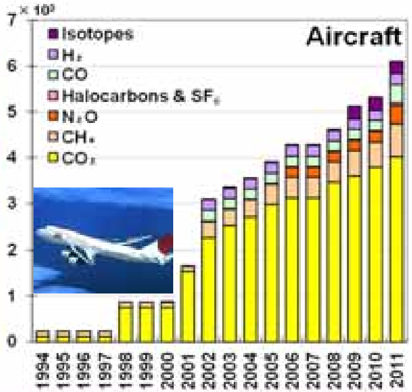


Distribution of the Fixed Stations and Mobile Platforms

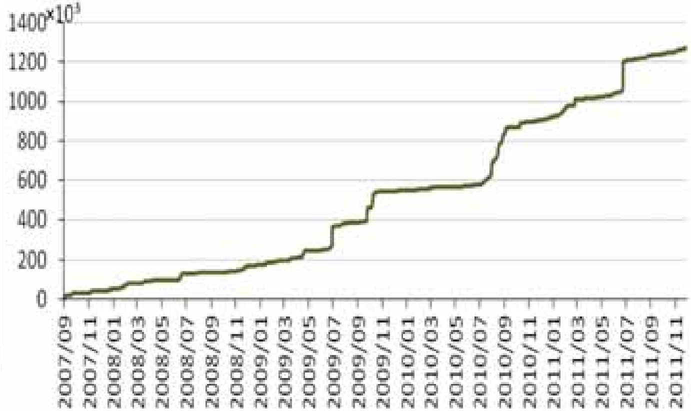


Data from Mobile Platforms

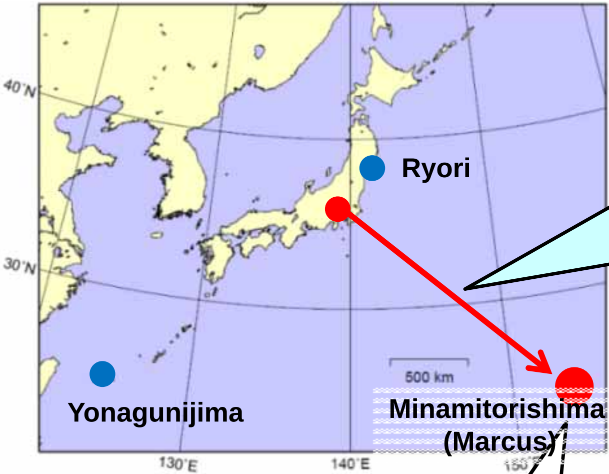




Accumulated FTP Download Counts



JMA started aircraft observation



Aircraft

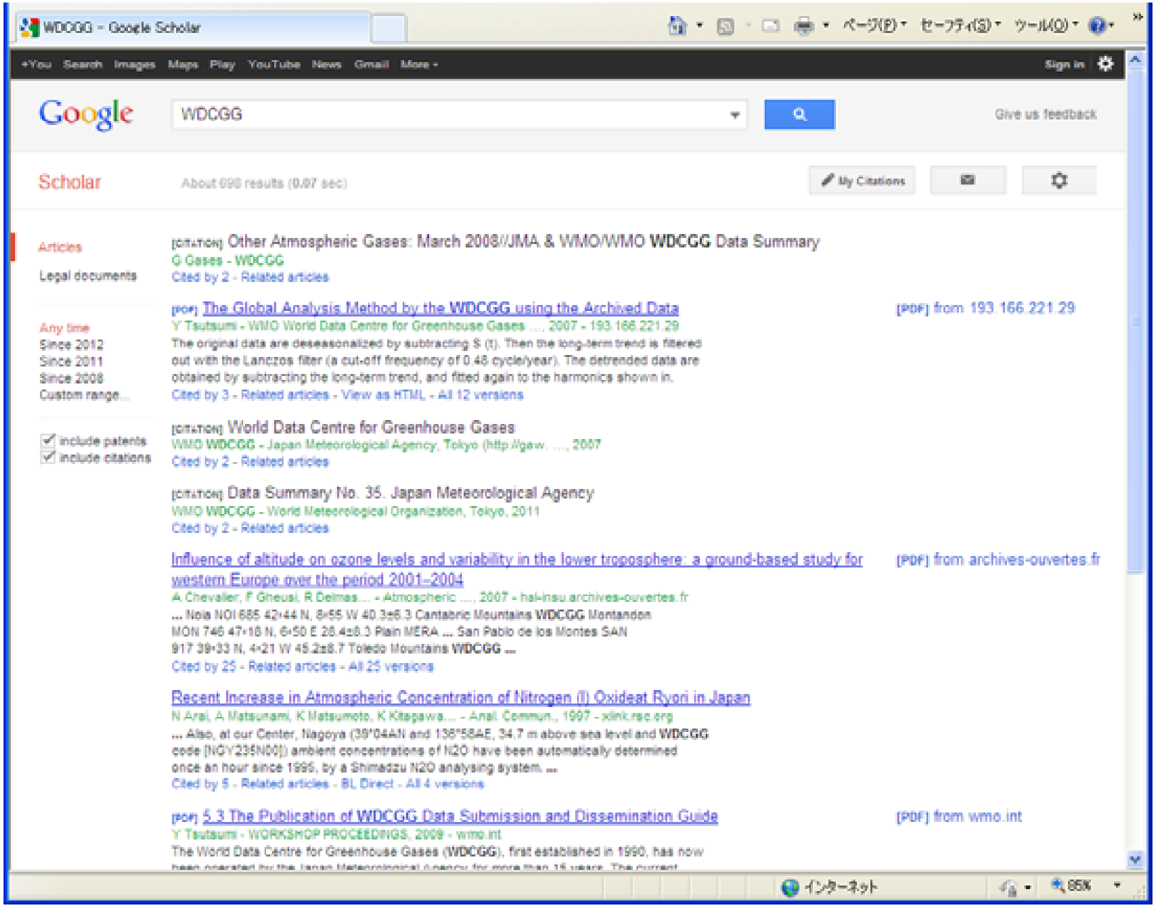
Flask Sampling
(1.7 L)

JMA headquarters (Tokyo)

Measurement of CO_2, CH_4, CO, N_2O concentrations

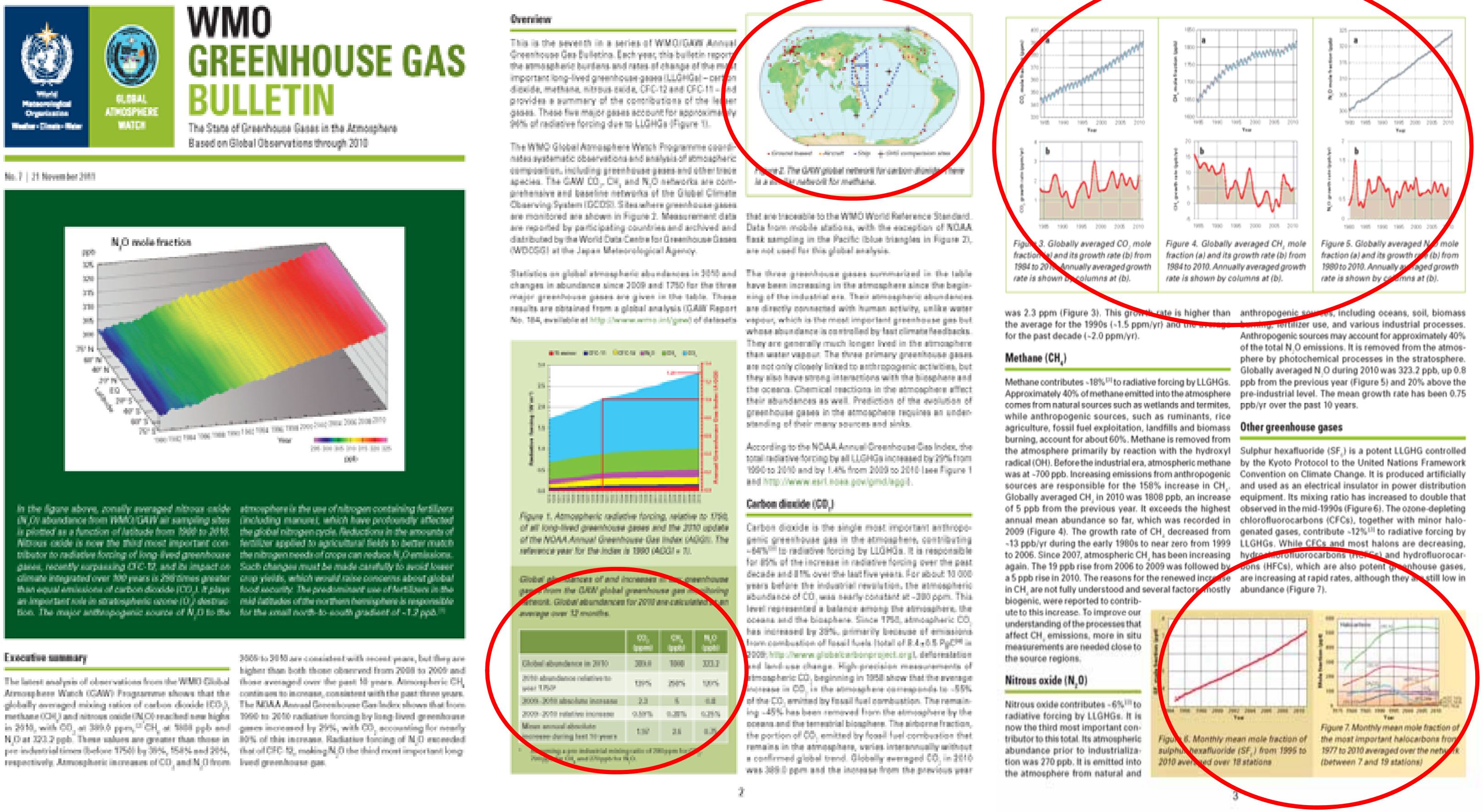
WDCGG "citation" in Google Scholar

- **Hit count in Google Scholar is gradually increasing and just reaching 700 (698 now).**



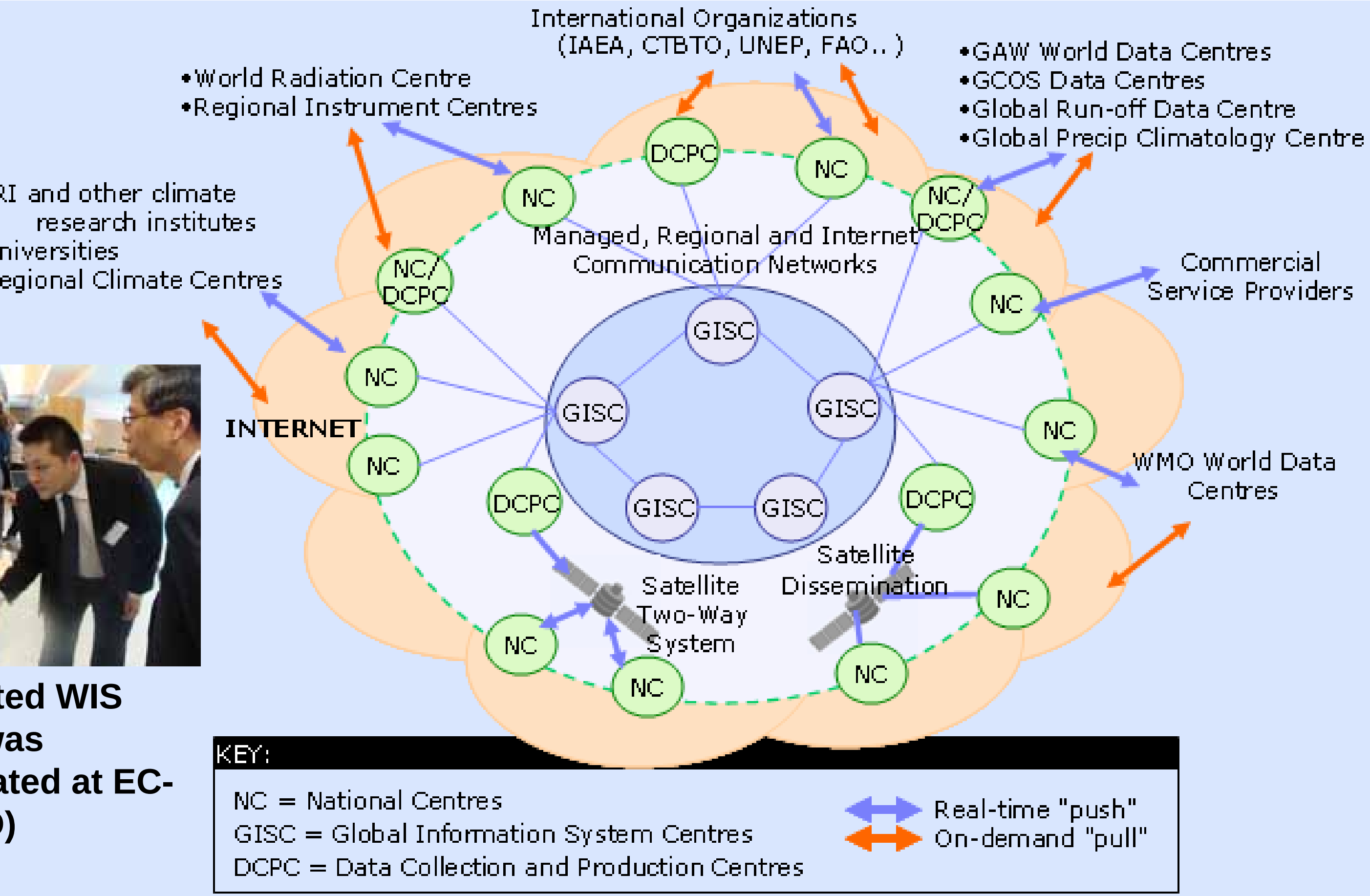
WMO Greenhouse Gas Bulletin

The WDCGG has contributed to the WMO Greenhouse Gas Bulletin by providing global analyses for major greenhouse gases



WMO Information System (WIS)

To enhance the present GTS network,
to facilitate information and data exchanges for all WMO programmes.

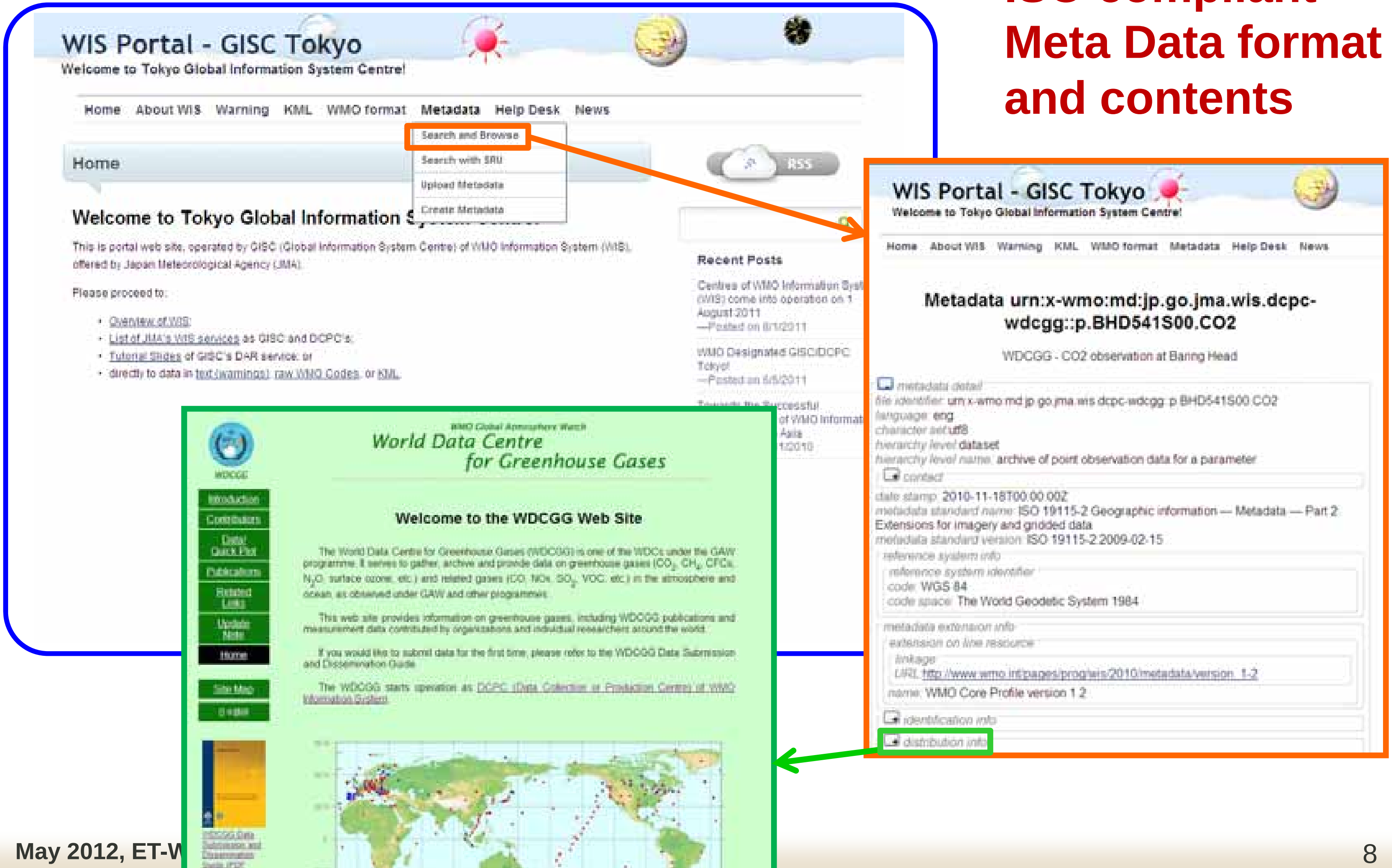


Implemented WIS function was demonstrated at EC-LXII (WMO)

GISC Tokyo Web site

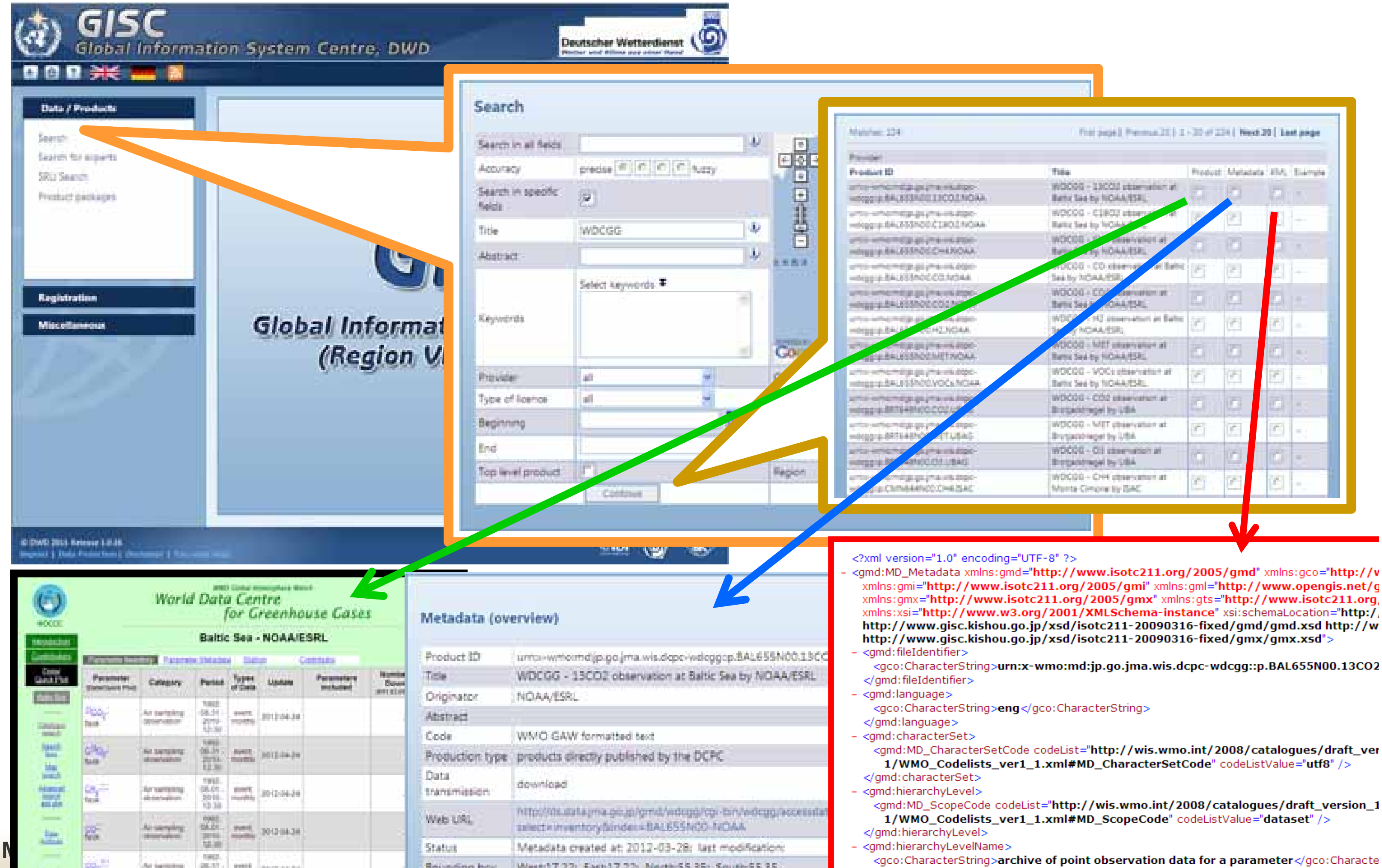
http://www.wis-jma.go.jp/cms/

ISO compliant Meta Data format and contents



GISC Offenbach Web site

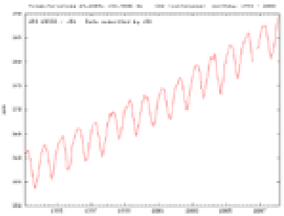
http://gisc.dwd.de/GISC_DWD/toStart.do



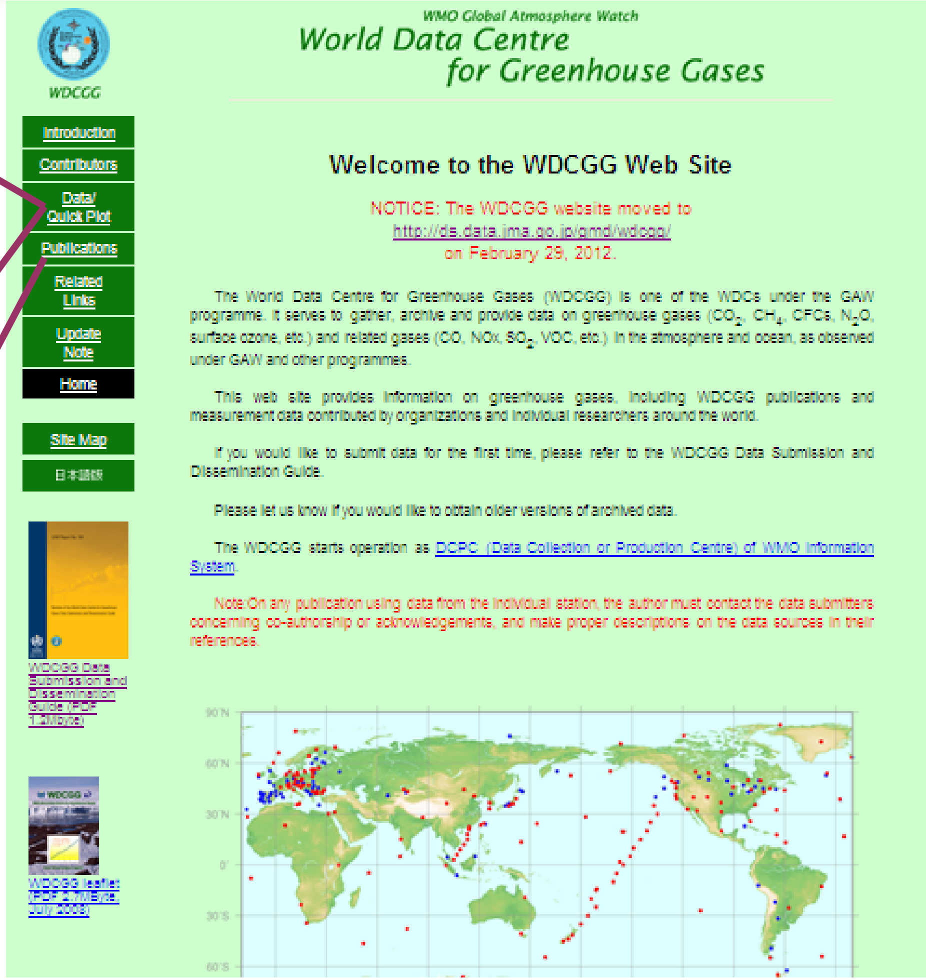
WDCGG Web Site

Searchable Station Directory & Metadata

Online Data Search & Plot



Downloadable Data & Publications



http://ds.data.jma.go.jp/gmd/wdcgg/

The figure shows the distribution of the fixed stations that contribute data to the WDCGG. The symbol "•

Minor Extension of WDCGG Web from Tronto

Function1. Posting the number of data downloaded for each parameter at each station during the 12 months until the last month

WMO Global Atmosphere Watch

World Data Centre for Greenhouse Gases

Minamitorishima - JMA

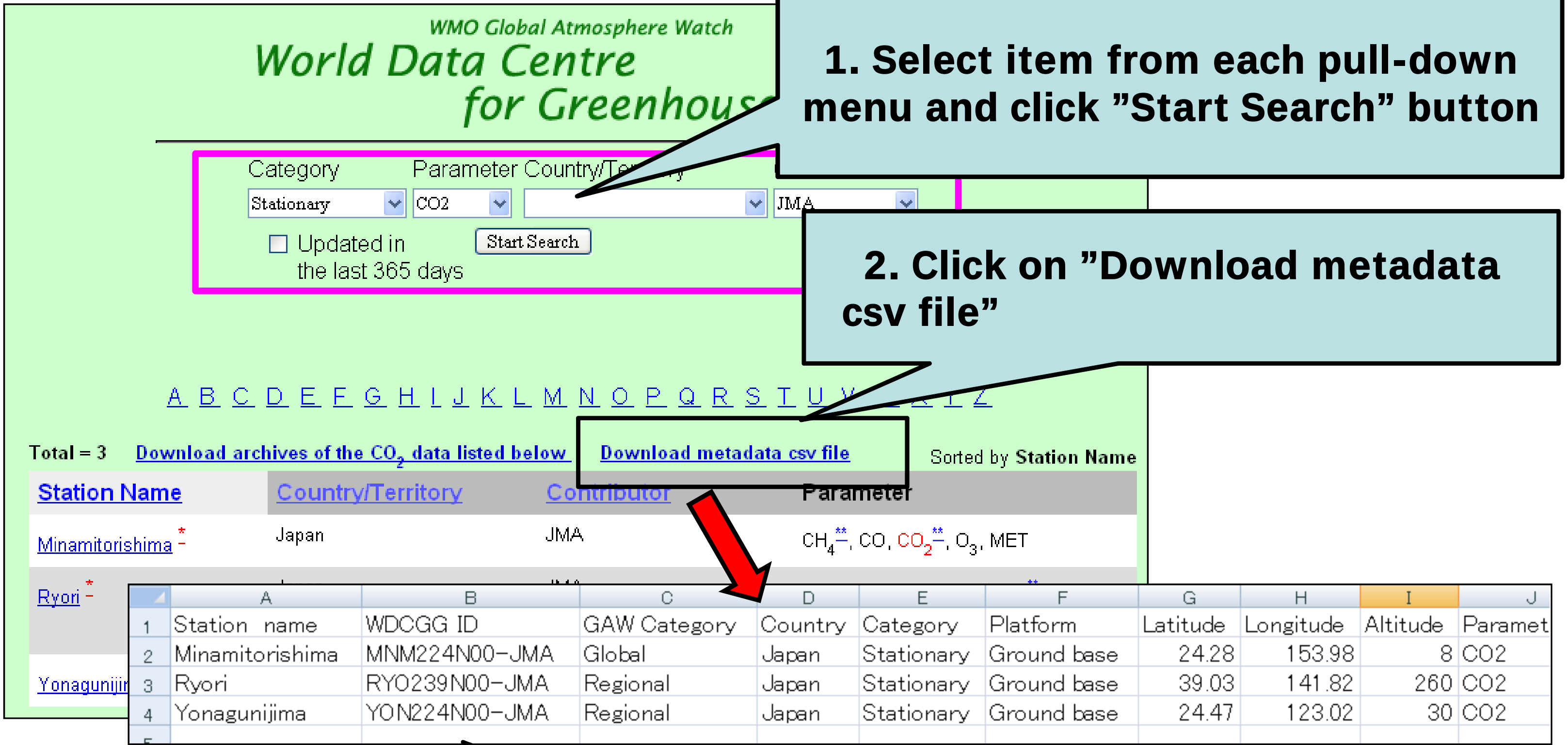
Parameter Inventory | Parameter Metadata | Station | Contributor

Parameter (Data/Quick Plot)	Category	Period	Types of Data	Update	Parameters included	Number of Data Downloaded 2010-09-01 - 2011-08-31
CH_4 ** * continuous	Air sampling observation	1994-01-01 - 2011-07-31	hourly, daily, monthly	2011-08-30		378
CO * continuous	Air sampling observation	1994-01-01 - 2011-07-31	hourly, daily, monthly	2011-08-30		390
CO_2 ** * continuous	Air sampling observation	1993-01-01 - 2011-07-31	hourly, daily, monthly	2011-08-30		659
O_3 * continuous	Air sampling observation	1994-01-01 - 2011-07-31	hourly, daily, monthly	2011-08-30		344

updated on the first day of every month

Minor Extension of WDCGG Web from Tronto

Function2. Downloadable list of metadata in csv format



	A	B	C	D	E	F	G	H	I	J
1	Station name	WDCGG ID	GAW Category	Country	Category	Platform	Latitude	Longitude	Altitude	Paramet
2	Minamitorishima	MNM224N00-JMA	Global	Japan	Stationary	Ground base	24.28	153.98	8	CO2
3	Ryori	RYO239N00-JMA	Regional	Japan	Stationary	Ground base	39.03	141.82	260	CO2
4	Yonagunijima	YON224N00-JMA	Regional	Japan	Stationary	Ground base	24.47	123.02	30	CO2

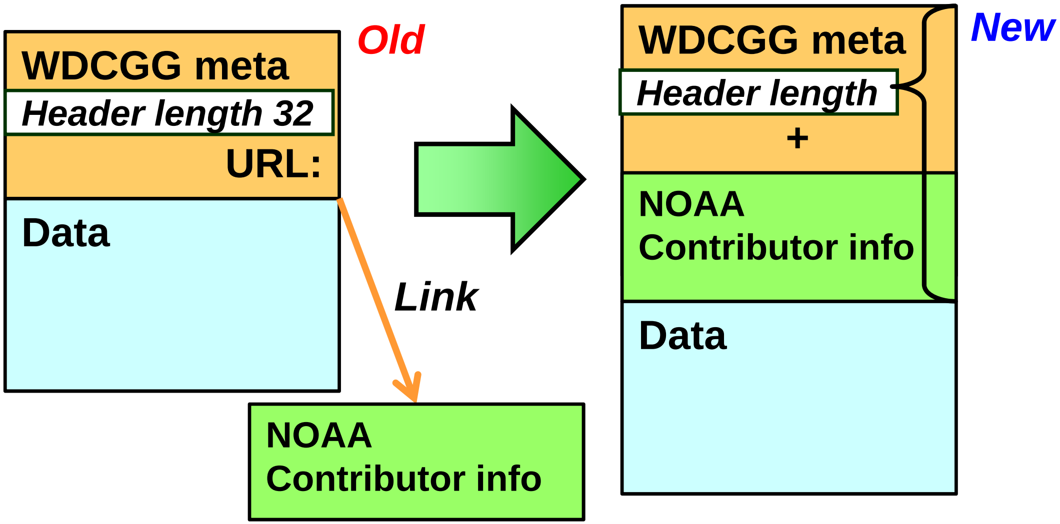
1. Select item from each pull-down menu and click "Start Search" button

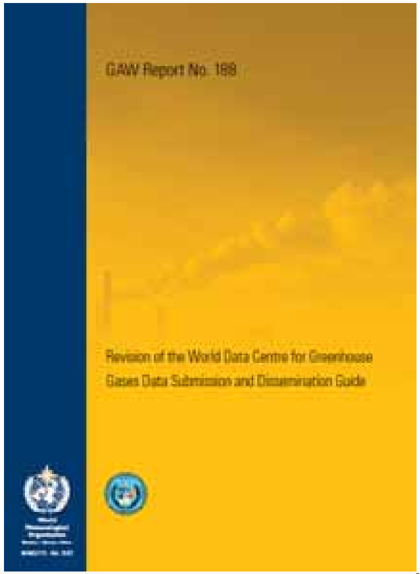
2. Click on "Download metadata csv file"

3. Downloadable metadata csv

Update for NOAA Contributors Information

- **Request from NOAA/ESRL and its Contributors, not to separate original CONTRIBUTORS information.**
- **WDCGG changed the header part of NOAA/ESRL data on 26 April 2012.**
- **Numbers of the header lines are not consistently fixed 32 as assigned in "WDCGG Data Submission and Dissemination Guide" (GAW Report No. 188). Length of the header lines is at the line number 5 (C05) as usual.**





Data Policy Argument in GGMT Mailing List

Argument

- Observers requested more strict standard for download:
  1. User registration (Name, Affiliation and Country, E-mail?)
  2. Download >> automatic (e-mail) notification of data policy with ccing to the PI.
  - ➢ Spin off: precise user statistics in WDCs would be available
- Oksana tried to gather the pros and cons for introducing registration in WDCGG using Google docs.

Question

- The registration could be discouraging potential users?

Future prospects

New data product from GOSAT

- Column total CO_2 Bias 10ppm > 2-3ppm
- Seeking resources (satellite data expert).

Request from Transcom-CH_4 group

- Handling model output time series in WDCGG ?
- Practical Concerns

WDCGG Restructuring

WDCGG Restructuring

Background

- Increasing Requests and Interests
- Registration?
- Flexibility for Future Functions

Work plan

- Design for Database until Mar. 2013
- New Metadata (WIS+WIGOS compliant)

Headache

- Parallel Burden

Thank you for your attention!