

Introduction to DAR revision 0.4

GISC Tokyo

Japan Meteorological Agency



Guide 0: Essentials



What is DAR?

WIS = GTS + DAR

GTS is:

for operational services (World Weather Watch)

for time- & operation-critical usage

DAR is for the rest of you



What is DAR?

DAR = Discovery + Access + Retrieval

Discovery

You can search whole-WIS catalog

Access

Ad-hoc browsing of recent global data

Retrieval

Subscribe to data



Start here: www.wis-jma.go.jp



WIS Portal - GISC Tokyo
Welcome to Tokyo Global Information System Centre!

Home About WIS WMO format Metadata Help Desk News

Home

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Please proceed to:

- [Overview of WIS](#)
- [List of JMA's WIS services](#) relating to its capacity as a GISC and a DCPC
- [List of JMA's single sign-on services](#)
- [User Guides](#) including [Tutorial Slides of DAR service](#)
- Data in [raw WMO Codes](#)

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2018/04/13 (Fri)

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Guide 1: Discovery



You can Search DAR Catalogue

DAR Catalogue: collection of metadata records

Metadata record links to data or document

GISC's DAR Catalogue covers entire WIS

Not only global data available at GISC Tokyo



Start search at “metadata” menu



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RSS

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Now you're browsing catalogue

WIS Portal - GISC Tokyo

Welcome to Tokyo Global Information System Centre!

[Home](#) [About WIS](#) [WMO format](#) [Metadata](#) [Help Desk](#) [News](#)

Metadata Record

[Next](#)

urn:x-wmo:md:int.wmo.wis:fr-meteofrance-Toulouse_CRIS_rars_npp_pap@WIS-GISC-TOULOUSE
| XML |

CrIS Sensor Data Records – Suomi-NPP

urn:x-wmo:md:int.wmo.wis:fr-meteofrance-Toulouse_ATMS_rars_npp_pap@WIS-GISC-TOULOUSE
| XML |

ATMS Sensor Data Records – Suomi-NPP

<urn:x-wmo:md:int.wmo.wis::ISMI02LEMM@WIS-GISC-TOULOUSE>
| Download | | XML |

ISMI02 SYNOP report (available from Gabriel de Castilla Antarctic Station-LEMM) (AEMET-SPAIN) as BUFR at 00, 06, 12 and 18 UTC during Antarctic Campaign

<de.pangaea.dataset668495@WIS-GISC-OFFENBACH>
| XML |

Basic and other measurements of radiation at station Barrow (1998-12), Version 1

Search

WIS_Center(OAI_Set):

Full Text:

Title:

Abstract:

Keywords:

North:

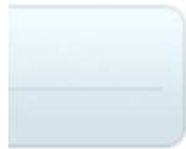
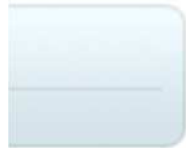
West:

East:

South:



You can search the catalogue



Search

WIS_Center(OAI_Set):

Hong Kong Observatory

← Metadata Source

Full Text:

Osaka

← Text in metadata record: only in title, abstract, or keywords, or anywhere

Title:

Abstract:

Keywords:

North:

40

← Bounding box: latitude & longitude ranges

West:

120

East:

150

South:

20

Search Reset



Each record describes a dataset

Metadata urn:x-wmo:md:int.wmo.wis::SMVX16RJTD

GTS bulletin SMVX16 RJTD

[GISC-Cache:SMVX16RJTD](#)

Click “+”(plus) button
to expand complex content

metadata detail

file identifier: urn:x-wmo:md:int.wmo.wis::SMVX16RJTD

language: eng

character set: utf8

hierarchy level: dataset

hierarchy level name: Data or Resource in WMO Information System (WIS)

+ contact

date stamp: 1994-11-30T00:00:00Z

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



Data Access from Metadata

GTS data: link top of the page

Other data: section “distribution info” often has links to data

Metadata urn:x-wmo:md:int.wmo.wis.test5::UKJP01RJTD

GTS bulletin UKJP01 RJTD (test5)

[GISC-Cache:UKJP01RJTD](#)

←link to data

metadata detail

file identifier: urn:x-wmo:md:int.wmo.wis.test5::UKJP01RJTD
language: eng
character set: utf8
hierarchy level: dataset
hierarchy level name: Data or Resource in WMO Information System (WIS)

contact

date stamp: 2010-03-15T00:00:00Z
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

content info

attribute description: images : Anomalies of monthly DWD drought index
content type: thematicClassification

distribution info

distribution format

name: jpg
version: not available

transfer options

on line

linkage

URL: http://gisc.dwd.de/GISC_DWD/retrieve_data.do?pidpat=urn:x-wmo:md:de:dwd:rcc-cm.ecsm.drought.ano.images&toplevel=false

protocol: WWW:LINK-1.0-http--link
name: GISC Centre Region VI, node: Offenbach am Main
description: download products/data through GISC Centre Region VI, node: Offenbach am Main

data quality info



Guide 2: Access



Two ways to find data

GISC Catalogue (described before)

Scope: entire WIS information

May link to external site

- JMA can't be responsible about content

GISC Cache

Scope: global distribution data only

All data on GISC Tokyo server

- Coherent service



GISC Cache Entry Points

Data in WMO Codes

This time
Click here

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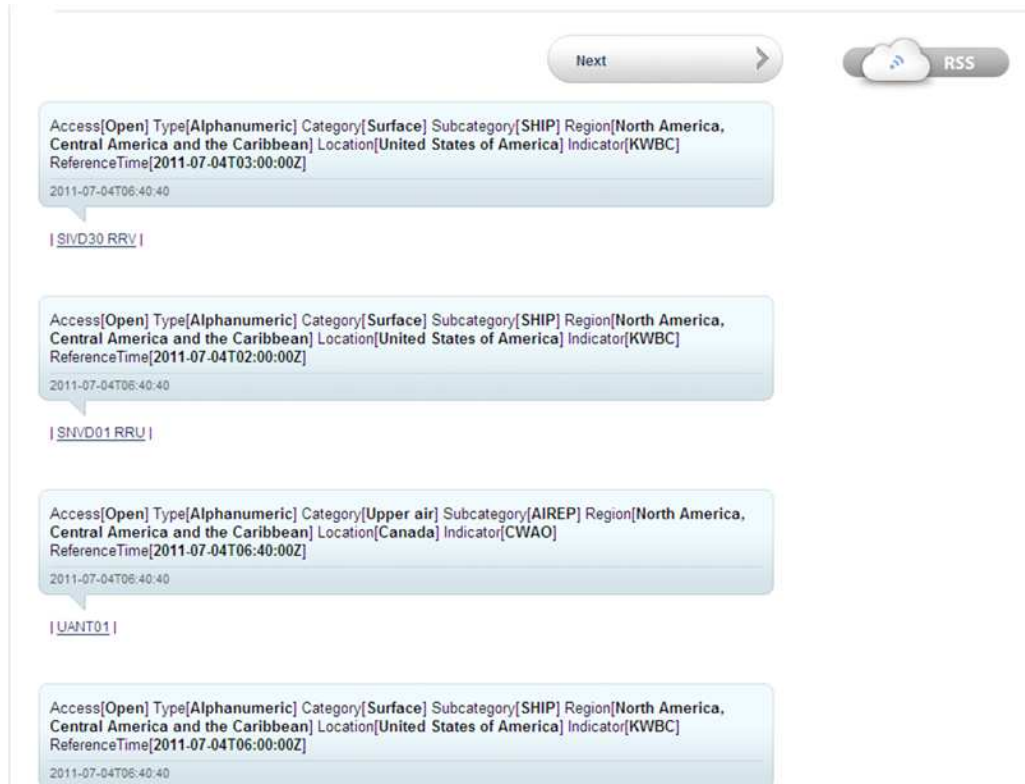


Listing of GISC Cache

All kinds of recent data

Newest first

So much traffic



Next > RSS

Access[Open] Type[Alphanumeric] Category[Surface] Subcategory[SHIP] Region[North America, Central America and the Caribbean] Location[United States of America] Indicator[KWBC] ReferenceTime[2011-07-04T03:00:00Z]
2011-07-04T06:40:40
| SIVD30 RRV |

Access[Open] Type[Alphanumeric] Category[Surface] Subcategory[SHIP] Region[North America, Central America and the Caribbean] Location[United States of America] Indicator[KWBC] ReferenceTime[2011-07-04T02:00:00Z]
2011-07-04T06:40:40
| SNVD01 RRU |

Access[Open] Type[Alphanumeric] Category[Upper air] Subcategory[AIREP] Region[North America, Central America and the Caribbean] Location[Canada] Indicator[CWAO] ReferenceTime[2011-07-04T06:40:00Z]
2011-07-04T06:40:40
| UANT01 |

Access[Open] Type[Alphanumeric] Category[Surface] Subcategory[SHIP] Region[North America, Central America and the Caribbean] Location[United States of America] Indicator[KWBC] ReferenceTime[2011-07-04T06:00:00Z]
2011-07-04T06:40:40



Want to Narrow Down Listing?



You can search

“WMO Format”

Select “Select and Browse”



Search window of GISC Cache

Select and Browse

Data

Data

Access:

Type:

Alphanumeric / BUFR / CREX

Category:

Subcategory:

Satellite:

GRIB

Discipline:

Grid:

Resolution:

Area:

Level:

Center

Region:

Location:

Indicator:

ReferenceTime

yyyy-mm-ddThh:mm:ssZ:

LinkText

LinkText:

You can select data types or properties

Click “Browse” button

You'll see new listing of selected data



When Browser Asks Password

The data is somewhat restricted

WMO additional data

OPMET (Aviation Weather) data

Data with other restrictions

Registration required

Contact:

Administrator of GISC Tokyo

`wis-jma@met.kishou.go.jp`



Guide 3: Subscription

(this is a bit tricky one)



Subscription at GISC Tokyo

Automatic download of near-realtime data

Downloading script runs on your computer

Similar to subscription of RSS

You can quickly fix if there's problem



To Start Subscription



Go to GISC-Tokyo top:
<http://www.wis-jma.go.jp>

Go to “WMO Format” to
open a pull-down menu

Select
“Subscribe/Download/S
ynchronize”



Step 1: select data policy



Select and Subscribe

Data Syndication

Access

All

Closed

Open

Next

Choose “Open” to select publicly available data

Add “Closed” for data with access control

You have to be registered in that case

All Rights Reserved



Step 2: select data type

Open

Data Syndication

Type / Category or Discipline

Alphanumeric

- Analysis
- Climate
- Forecast
- Oceanographic data
- Radar
- Satellite
- Surface
- Upper air
- Warning

BUFR

- Climate
- Cyclone
- Empty or Invalid
- Oceanographic data
- Satellite
- Surface
- Surface data
- Upper air

CREX

- Empty or Invalid
- Surface
- Upper air

GRIB

- Meteorological products

Back Next

Try "Surface"
for example

Multiple choices not allowed; if you want two or more types of data, please repeat step 1 to 4 and create multiple shell scripts.



Step 3: select code form and WMO region

Multiple choices allowed

Open Alphanumeric Surface
Data Syndication

Subcategory

- All
- BUOY
- Empty or Invalid
- Miscellaneous
- Sea level data and deep-ocean tsunami data
- Seismic data
- SHIP
- SYNOP**
- SYNOP MOBIL
- WAVEOB

Region of Center

- All**
- Africa
- Asia
- Europe
- North America, Central America and the Caribbean
- South America
- South-West Pacific

Location of Center or Exclusive location of Center

Back Next

Try "SYNOP"
for example

Try "All"
for example

You can also
specify a
producing center
or exclude a
center.



Step 4: select your environment

Category="Surface" Type="Alphanumeric" Access="Open"
Subcategory="SHIP"

Data Syndication

Data Information

total file size per day (Yesterday): (bytes)

total number of files per day (Yesterday):

Your Information

download utility: Wget (Please install [Wget for Linux](#) or [Wget for Windows](#) to download data file.)

os and shell:

directory of wget(.exe):

limit speed of download:

local directory to store download files:

This time we assume Linux

Click here

[Back](#)

[Show sample shell script to download files](#)



Result: script is shown

Your Information

download utility: Wget (Please install [Wget for Linux](#) or [Wget for Windows](#) to download data file.)

os and shell:

directory of wget(.exe):

limit speed of download:

local directory to store download files:

Sample shell script

```
#!/bin/sh
### Configuration ###
atomURL="http://localhost:8080/data/syn?ContentType=Text&Category=Surface&Type=Alphanumeric&
Access=Open&Subcategory=SYNOP&Region=Asia"
userName=""
userPassword=""
limitSpeed="128k"
sleepTime="30"
export PATH=$PATH:/usr/bin"
workParentDirectory="pwd"
storeDirectory="$workParentDirectory/from_WIS-JMA"
scriptName=${0##*/}
workDirectory="_"$scriptName
formerETagFile="formerETag"
pidFile="$workDirectory/pid"
#####
loopSubscribe(){
  while [ 1 ]
  do
    nowTime="date -u +%H%M%S"
    tmpFilePrefix="_$nowTime_"
    rm -f $tmpFilePrefix"
    ### download list of published data ###
    updatedListFile=$tmpFilePrefix"UpdatedList.txt"
    updatedListLogFile=$tmpFilePrefix"UpdatedListLog.txt"
    if test -s $formerETagFile
    then
      formerETag=`cat $formerETagFile`
      header="If-None-Match: "$formerETag
      stdout="wget --header="$header" --save-headers -T 30 -t 1 -nc --limit-rate="$limitSpeed" -o
"$updatedListLogFile" -O "$updatedListFile" "$atomURL" 2>&1"
    else
      stdout="wget --save-headers -T 30 -t 1 -nc --limit-rate="$limitSpeed" -o "$updatedListLogFile" -O
"$updatedListFile" "$atomURL" 2>&1"
    fi
    ### download published data ###
    if test -s $updatedListFile
    then
      filesLogFile=$tmpFilePrefix"FilesLog.txt"
```

Copy and paste it to
a text file,
that works as a script

This shell will
endlessly repeat
subscription

every 30 seconds
for observation
data,

every 5 minutes for
GRIB data,

every 30 minutes
for climate data.



Linux Instructions

Check: `/usr/bin/wget` is installed (okay for most Linux)

Check: network connectivity

(set `$http_proxy` if you are behind firewall)

Save script to a text file

(any name okay: say `download.sh`)

Start it as a background job

```
$ sh ./download.sh start > /dev/null 2>&1 <
/dev/null &
```

Stop it

```
$ sh ./download.sh stop
```



Windows Instructions

Check: [GNU Wget](#) is installed

Check: [Microsoft PowerShell 2.0](#) is installed

Open notepad

Paste script & save (suffix must be **.PS1**; say *download.ps1*)

Prepare: type on console

```
PowerShell -command "& {Set-ExecutionPolicy RemoteSigned}"
```

Start:

Open console & go to folder with script

```
PowerShell -WindowStyle hidden .¥download.ps1 start
```

Console vanishes if successful

Stop:

Open console & go to folder with script

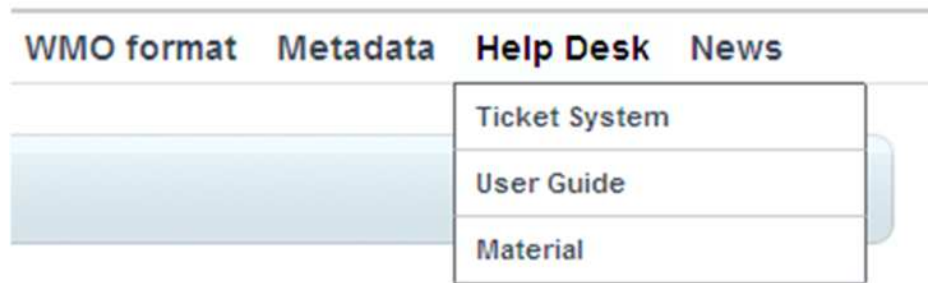
```
PowerShell .¥download.ps1 stop
```



Guide 4: Help Desk



When in trouble...



Ticket System

Web-based board
you can write
questions

Registration Required

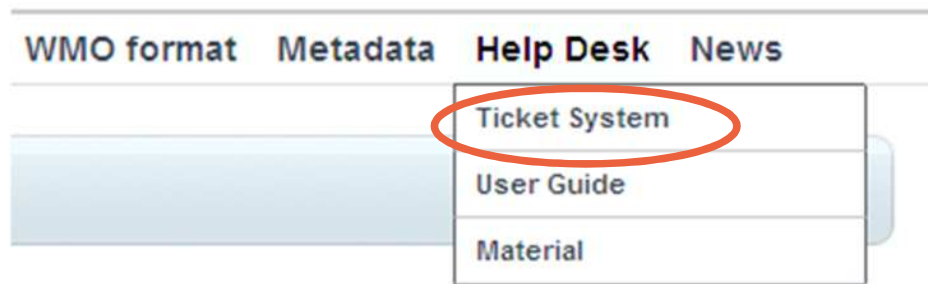
Online
Documentations



Entering Ticket System

Go to “Help Desk”
to open menu

Select
“Ticket System”



Login

Please enter your
login name and
password

Contact us to get
registered

A light orange login form with a yellow border. It contains two input fields: "Login:" followed by a text box, and "Password:" followed by a text box. Below the password field is a link "Lost password" and a "Login >>" button.

Select “Project”

Please select “DAR”
for most cases

Logged in as My account Sign out

Search: Jump to a project... ▾

Latest projects

- **DAR (04/14/2011 11:42 am)**
Issues related on facilities of ad-hoc data access (GISC Cache), metadata search (SRU), and metadata service (OAI-PMH).
- GTS (04/14/2011 11:41 am)
Issues related to GTS, including GTS-over-internet.
- test (03/10/2011 08:58 am)



Project view

You can post new issue

You can view existing issues processed

The screenshot shows the DAR project view interface. At the top, there is a navigation bar with links for Home, My page, Projects, Administration, and Help. The user is logged in as 'g1234' and can access My account or Sign out. A search bar contains the text 'DAR'. Below the navigation bar, there are tabs for Overview, Activity, Issues, New issue, and Settings. The 'Issues' and 'New issue' tabs are circled in orange. The main content area is titled 'Overview' and includes a 'New subproject' button. It contains a description of issues related to facilities of ad-hoc data access (GISC Cache), metadata search (SRU), and metadata service (OAI-PMH). There is an 'Issue tracking' section showing 'Support: 2 open / 20' and a 'View all issues' link. A 'Members' section lists the Administrator and Reporter with their respective user IDs. Two orange arrows point from the 'Issues' and 'New issue' tabs to the text 'to view issues being processed' and 'to post your issues' respectively.



Posting New Issue

DAR

Overview Activity Issues **New issue** Settings

New issue

Tracker * Support

Subject * Japan SYNOP missing

Parent task

Description

SMJP01 is missing from 00Z Friday.
Could you look in and fix?

Status * New

Priority * Normal

Create Create and continue Preview

Please fill:

Brief title

Description

Click “Create” to submit

You will have email
when GISC Tokyo staff
respond

Powered by Redmine © 2006-2011 Jean-Philippe



View issues

The screenshot shows the DAR system interface. At the top, there is a navigation bar with 'Home', 'My page', 'Projects', 'Administration', and 'Help'. Below this is a search bar and a 'Logged in' indicator. The main menu includes 'Overview', 'Activity', 'Issues', 'New issue', and 'Settings'. The 'Issues' section is active, showing a list of issues with columns for '#', 'Tracker', 'Status', 'Priority', 'Subject', 'Assignee', and 'Updated'. The status is set to 'All' in the filters section. The 'Apply' button is highlighted in green.

#	Tracker	Status	Priority	Subject	Assignee	Updated
39	Support	Closed	Low	test		07/06/2011 05:06 am
38	Support	Closed	Normal	Trouble in getting the data.	GISC Operator	07/03/2011 11:13 am
37	Support	Closed	Normal	test July 3 2011		07/03/2011 10:34 am
34	Support	Closed	Normal	[test] Do you have Web Manual?		07/03/2011 10:17 am
31	Support	Escalated	High	[TEST] I cannot find any SYNOP data		06/30/2011 02:05 am
30	Support	Closed	Normal	[TEST] I cannot find any SYNOP data		06/24/2011 01:42 am
27	Support	Closed	Normal	[TEST] I cannot find any SYNOP data		06/24/2011 01:42 am
26	Support	Closed	Normal	[test] I cannot find any SYNOP data		06/20/2011 12:40 am
24	Support	Closed	Normal	[test] I cannot find any SYNOP data		06/16/2011 08:53 am
22	Support	Closed	Normal	[test] Do you have Web Manual?		06/24/2011 06:21 am
20	Support	New	Normal	test		07/03/2011 10:54 am
19	Support	Closed	Normal	Please initialize a password	GISC Operator	06/20/2011 02:24 am
18	Support	Closed	Normal	Do you have DAR manual?	GISC Operator	06/01/2011 05:47 am
17	Support	Closed	Normal	Do you have DAR manual?	GISC Operator	06/01/2011 05:36 am
16	Support	Closed	Normal	Do you have DAR manual?	GISC Operator	06/01/2011 05:35 am
15	Support	Closed	Normal	Do you have DAR manual?		06/16/2011 01:13 am
12	Support	Closed	Normal	[TEST] Do you have DAR manual?	GISC Operator	06/16/2011 01:13 am
10	Support	Closed	Normal	Do you have manual?		06/16/2011 01:12 am
7	Support	Closed	Normal	Do you have DAR manual?		06/16/2011 01:11 am
5	Support	Closed	Normal	[test]		05/20/2011 02:14 am

(1-20/20) | Per page: 25, 50, 100

Listing of open issues
(being processed)

To see closed (older)
issues:

Set status "All"

Click "Apply"



Questions and Registration Request:

Please contact

`wis-jma@met.kishou.go.jp`

