Training of Collection of data from GISC Tokyo on Internet - Subscription -

- Objective -

Learn how to access and retrieve data in GISC Tokyo's cache

by using GUI software by using shell script



Yasutaka HOKASE WIS Workshop in JMA 18th November, 2014 🐽

GISC Tokyo/Japan Meteorological Agency



You can get whatever you choice and whenever you need.





even during an outage of GTS or your Message Switching System.



- Easy to configure download setting with its simple GUI.
- Once you run the software, data will be automatically downloaded.
- Available from GISC Tokyo website. http://202.32.195.141/wisapp/?page_id=259

	EGDOT	Status	Save to	Number of files
	Download 1	Not Modified	C¥Documents and Settings¥JM	
2	Download 2	Not Modified	C.¥Documents and Settings¥JM	
3	Download 3	Not Modified	C:¥Documents and Settings¥JM	
4	Download 4	Not Modified	C:¥Documents and Settings¥JM	
5	Download 5	Not Modified	C:¥Documents and Settings¥JM	



Feature of Subscription Manager

- Easy to setup.
- Easy to configure download setting with simple GUI.
- 5 download settings in one program.
- No additional program.
- Automatic delete function.

Requirements

- Microsoft Windows 7
- Microsoft .net framework 4.
 - Available at Windows Update or Microsoft website.
- Hard disk space for accumulating data files.

Let's move on to Practical Training!





Step 1 - Get "Subscription Maneger"

Click here &

download it.

"Subscription Manager" is available on this website. http://202.32.195.141/wisapp/?page_id=259

- Download "Subscription Manager" from the above URL.
- Copy the downloaded zip file anywhere. (e.g. on desktop)
- Unzip the file.



Step 2 - Run "Subscription Manager"

• Double click the program icon in the unzipped folder.



Subscription_Manager.exe GISC Tokyo Subscription Manage... Japan Meteorological Agency

Then, main window will appear.

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3	Download 3	Not Modified	C:¥Documents and Settings¥JM	
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Step 2 - Configure download setting

This time,

Configure setting to download "SYNOP" for all area in WMO format.

 In the main window, click on Tools menu and Download settings.

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4 Download 4	Not Modified	C:¥20130820_Subscription_Manag	
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		S	ubscribe

Configure download setting

• Click on Enable check box and "..." button at the end of Source line.

	Download Settings		
Here!	1 2 3 4 5 Label: Download 1 Source: Save To: C¥20130820_Subscription_Manager¥from_WIS=JMA Auto Delete Data files will be deleted after 48 hours		Here!
		OK Cancel	

Select WMO format

 Select "WMO format" and click on "Subscribe/Download/Synchronize".

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✓ All	Free WIS Software	
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Check "Access" category

• Click on "Open" check box and "Next" button.

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• Click on "Surface" radio button and "Next" button.



Select Type, Subcategory, Region

Click on "Surface" radio button and "Next" button.

Click "SYNOP" and "All" check boxes and "Next" button.



Save the configuration

• Click on OK button at the bottom.

Download Se	attings	
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		Here!



Step 3 - Start subscribe

• Click on Subscribe button to start download.

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i D	ownload 5	Not Modified	C:¥20130820_Subscription_Manag	
	-		Si	ubscribe Unsubscribe



Open downloaded data

• Data will be downloaded into "from_WIS-JMA" folder in the folder where the program icon is.

from_WIS-JMA

Double click to open the downloaded data with text editor!

A_SNVD20KWNB290800_C_RJTD_20140929075047_71.txt

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Unsubscribe

• Click on Unsubscribe button to stop download.

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3	Download 3	Not Modified	C:¥20130820_Subscription_Manag	
4	Download 4	Not Modified	C:¥20130820_Subscription_Manag	i.
5	Download 5	Not Modified	C:¥20130820 Subscription Manag	





GISC Tokyo/Japan Meteorological Agency



 Don't worry. We have a Wizard for making script at "WIS Portal - GISC Tokyo" http://www.wis-jma.go.jp/
 You don't have to make script from scratch.



Script

Advantages of using script

Script runs on

- Linux /bin/sh
- Windows PowerShell 2.0



If your existing system comprises Linux server, you can easily load data into your system.

You can remake script just the way you want.

Finer granularity



Step 1. Preparation



Always ready to subscribe...



Download and setup following software before you start.

- Wget
(http://www.gnu.org/software
/wget/)



Step 2. Make script by Wizard

This time, Configure setting to download "SYNOP" for all area in WMO format.

Access GISC Tokyo web site

http://www.wis-jma.go.jp/cms/ or google "GISC Tokyo"



Script



GISC Tokyo/Japan Meteorological Agency

Verify your Information

(g) Select and Subscribe ×	
🗲 🤿 C 🗋 www.wis-jma.go.jp/data/subscribe3?Access=Open&Type=Alphanumeric&Category=Surface&3	Subcategory=SYNOP&Region=&Location=
WIS Portal - GISC Tokyo	
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total file size per day (Yesterday): 5391591 (bytes)	
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directory of wget(.exe) or aria2c(.exe): limit speed of download: local directory to store download	Check your Internet connection
Back Show sample shell script to download files	Your Server/Client Is there Proxy Server? http://www.wis-jma.go.jp/
	If you are behind the proxy, check wget "http_proxy" setting.
1	•Linux ~/.wgetrc
	•Windows .wgetrc (@ wget installed folder)

Copy, Paste, Save

Text Editor



Extension must be ".ps1" e.g. "download.ps1"

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Change execution policy of PowerShell

Open "Windows PowerShell" <u>as administrator</u>

Type the following red-letter.

- <u>PS C:¥> Get-ExecutionPolicy</u>
 - (Get current setting)
 - − Restricted ← default setting
- <u>PS C:¥> Set-ExecutionPolicy RemoteSigned</u>
 (Change setting)
- <u>PS C:¥> Get-ExecutionPolicy</u>
 - RemoteSigned



Step 3. Run script

Open "Command Prompt" and go to folder with script. If you saved script on desktop, type "cd desktop".

Command to run script

PowerShell - WindowStyle hidden ./download.ps1 start

- Linux
 - Open "Console" and go to directory with script.
 - <u>\$ sh ./download.sh start > /dev/null 2>&1 < /dev/null &</u>
- Windows
 - Open "Command Prompt" and go to folder with script.
 - PowerShell WindowStyle hidden ./download.ps1 start



\wis-subscription>PowerShell -WindowStyle hidden .\download.ps1 start

And get data files...





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Data are being downloaded into the folder "from_WIS_JMA" automatically.



Unsubscribe

- Linux
 - Open "Console" and go to directory with script.
 - <u>\$ sh ./download.sh stop</u>
- Windows
 - Open "Command Prompt" and go to folder with script.
 - PowerShell ./download.ps1 stop



Summary

Summary



- 'Subscription Manager'
 - easy to setup and configure settings
 - runs on only Windows.



- Script
 - runs on Linux and Windows.
 - You can remake the script just the way you want in order to load data into your existing system (e.g. Message Switching System ...etc.)
 - finer granularity



For further convenience

 If 'Subscription Manager' or 'Wizard' had an additional function of making WMO FTP file format from downloaded data, you could load data into your existing Message Switching System more easily?



Other (SATAID & GSM)



Satellite data is available via SATAID service (http://www.wisjma.go.jp/cms/sataid/app/download/) with another download tool.



JMA High-Resolution GSM data is available here http://www.wis-jma.go.jp/cms/gsm/



Thank you for listening!

- Please feel free to contact us anytime
- wis-jma@met.kishou.go.jp







- Reference manual pages -



GISC Tokyo/Japan Meteorological Agency

Subscription – Make Script-

Wizard for making script at "WIS Portal - GISC Tokyo"





GISC Tokyo/Japan Meteorological Agency

Subscription – Make Script-Wizard for making script at "WIS Portal - GISC Tokyo"

Home About WIS Warning KML WMO format Metadata Help Desk News	local directory to store download files: from_WIS-JMA		
Category="Surface" Type="Alphanumeric" Access="Open" Subcategory="SYNOP"	Back Show sample shell script to download files		
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Your Server/Client Is there Proxy Server? Is there Proxy Server? http://www.wis-jma.go.jp/	Script file name •Linux		
	Any name is Okay. (ex: "download.sh")		
	•Windows		
	Extension must be ".ps1". (ex: "download.ps1")		

Subscription – Make Script-

Preparation

- 🔰 Linux
 - The Subscription uses pwd, date, ls, wget, grep... But these commands are always installed. If you don't have these command, please setup using with package manager in your system.

ど Windows

- Download and setup following software before you start, if you don't have them.
 - · Power Shell 2.0 (http://www.microsoft.com/powershell)
 - ·wget (http://www.gnu.org/software/wget/)
- Change execution policy.
 Because PowerShell script can't run for security by default, we need to change the policy.
 - Open "Windows PowerShell" as an administrator
 - <u>PS C:¥> Get-ExecutionPolicy</u>
 - (Get current setting)
 - Restricted
 - <u>PS C:¥> Set-ExecutionPolicy RemoteSigned</u>
 - (Change setting)
 - <u>PS C:¥> Get-ExecutionPolicy</u>
 - RemoteSigned



Subscription – Make Script-

Start subscribe...

실 Linux

- Open "Console" and go to directory with script.
- <u>\$ sh ./download.sh start > /dev/null 2>&1 < /dev/null &</u>

Nindows 🦉

- Open "Command Prompt" and go to folder with script.
- PowerShell -WindowStyle hidden ./download.ps1 start

Run script & get data

PowerShell - WindowStyle hidden ./download.ps1 start

wis-subscription>PowerShell -WindowStyle hidden .\download.ps1 start

Unsubscribe

실 Linux

- Open "Console" and go to directory with script.
- <u>\$ sh ./download.sh stop</u>



- Open "Command Prompt" and go to folder with script.
- <u>PowerShell ./download.ps1 stop</u>

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Intro of GISC Tokyo WIS Portal

User Registration

- ID & Password are required for downloading "Closed" data.
- How to register



more information http://www.wis-jma.go.jp/cms/about-wis/registration/