

In-situ Data Management System for AWCI

-Data Uploading, Quality Control, Metadata Registration,
and Data Visualization & Downloading System-

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Background

In-situ data is essential for a wide range of applications, e.g. water and energy budget analyses, satellite data and numerical simulation validations, initial conditions, etc. But many pre-processing actions are necessary to make in-situ data usable for these purposes

Check the number of records..

Search

periods..

**A a lot of Time
and Energy
to do this.**

Ch

Fe

And so on .

4 Components of In-situ data management

(1) Data Uploading

The AVCI Data Upload Center interface includes a login section, a map of Japan showing data points, and a table for upload status. The table has columns for Station, Date, and various data values.

(3) Meta Data Registration

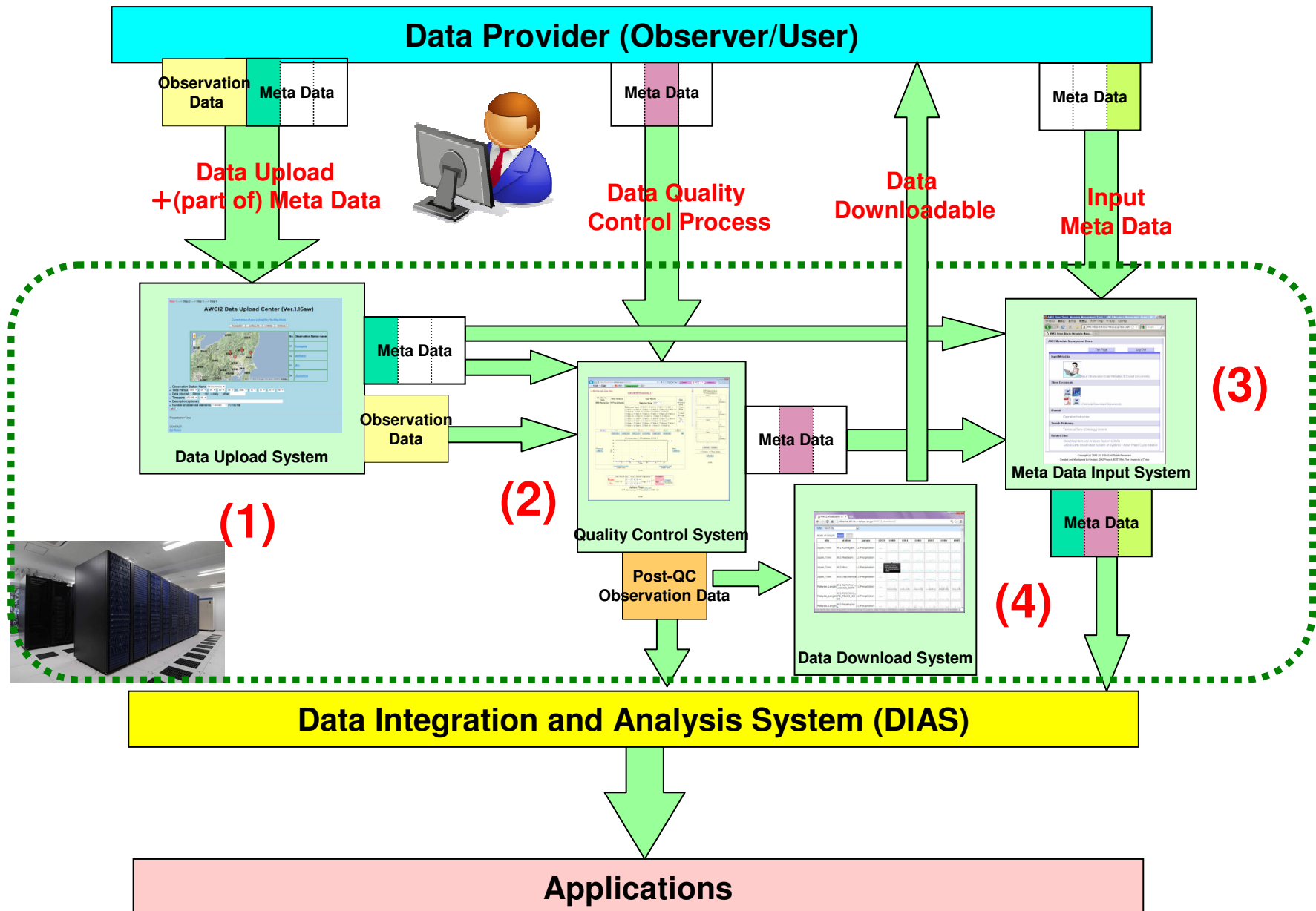
The AVCI Observation Data Metadata Registration System interface includes a 'New Documents' page, a 'Confirmation & Export Document' page with a table for metadata, and a 'New Documents List' table.

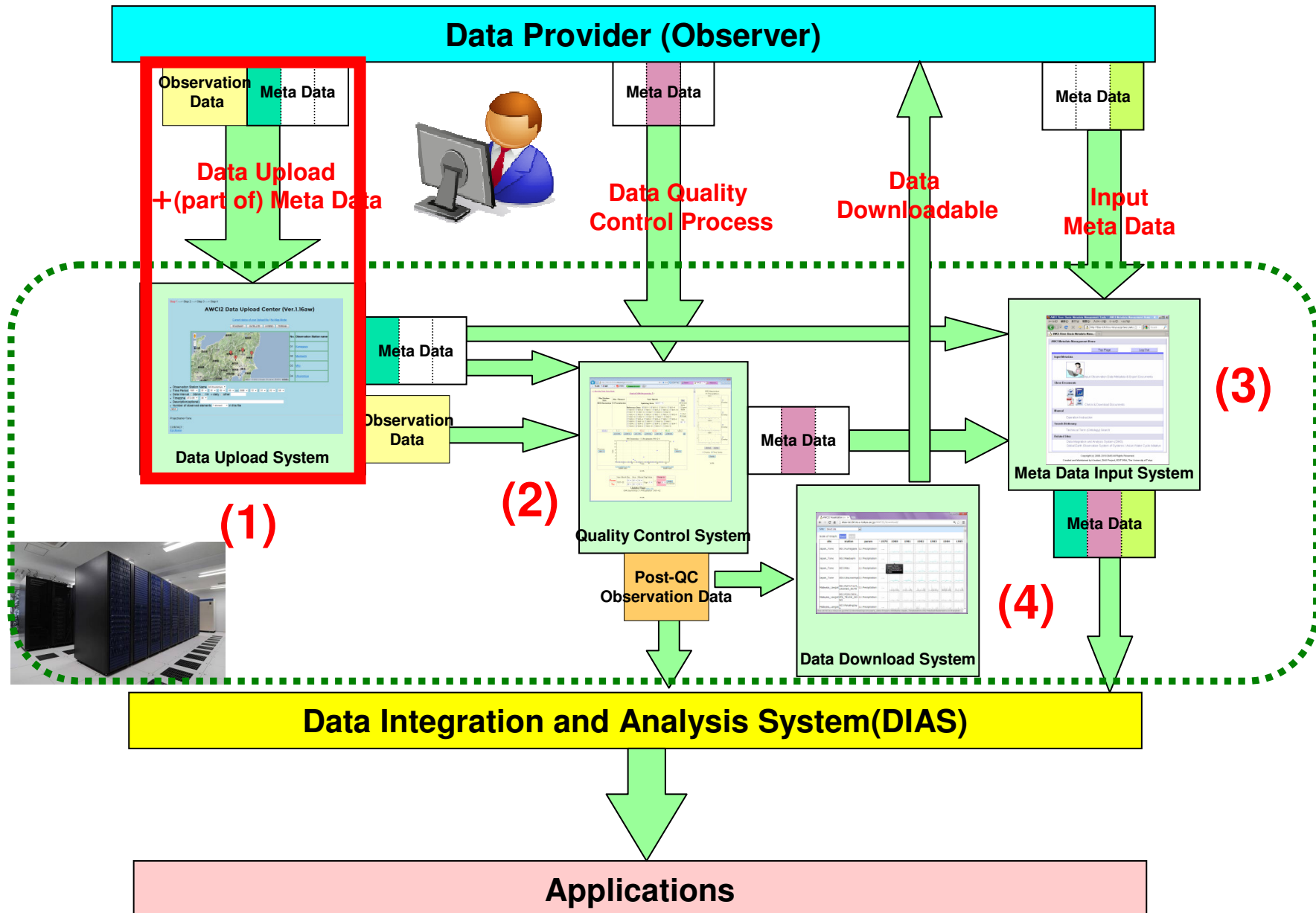
(2) Quality Controlling

The AVCI Data Viewer interface includes a 'Data Information' table, a 'Quality Control' graph with data points, and a 'Data Download' table.

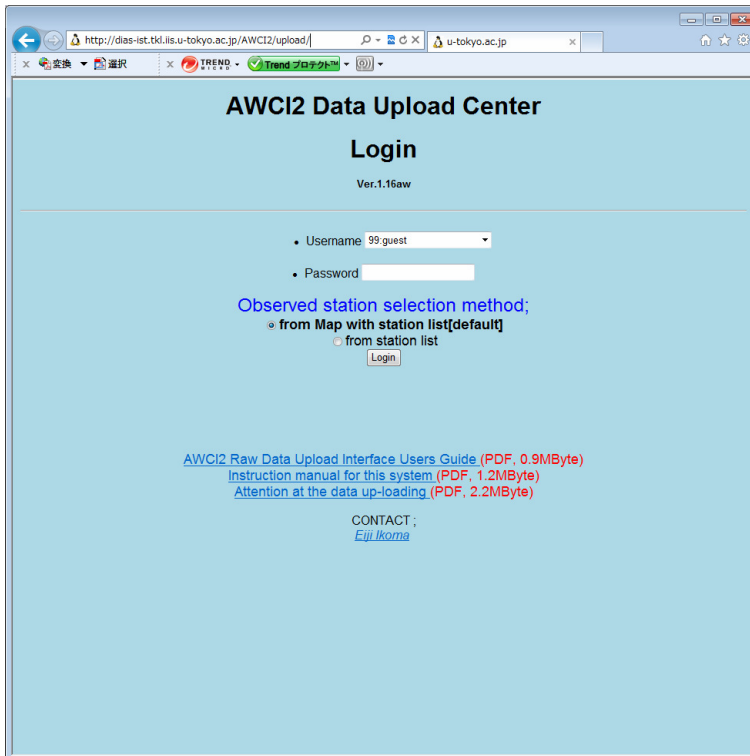
(4) Data Downloading

The AVCI Visualization interface includes a 'Scale of Graph' table, a 'Data Download' table, and a 'Data Visualization' graph showing precipitation data for various sites.





Login Page



AWC12 Data Upload Center
Login
Ver.1.16aw

- Username: 99.guest
- Password:

Observed station selection method;
 from Map with station list[default]
 from station list

[AWC12 Raw Data Upload Interface Users Guide \(PDF, 0.9MByte\)](#)
[Instruction manual for this system \(PDF, 1.2MByte\)](#)
[Attention at the data up-loading \(PDF, 2.2MByte\)](#)

CONTACT ;
Eiji.Ikoma

- Username and Password are required.
- Each observation site manager has an own (unique) username and password.
- Link (Instruction Manual, Attention, etc...) and Information

STEP1


- Observation Point (Map/List)
- Time Period
- Data Interval
- Time zone
- Description (optional)
- Num. of observed elements

Step 1 -----> Step 2 -----> Step 3 -----> Step 4

AWCI2 Data Upload Center (Ver.1.16aw)

[Current status of your Upload file / No Map Mode](#)

ROADMAP SATELLITE HYBRID TERRAIN



No.	Observation Station name
01	Sample_Station_1
02	Sample_Station_2
03	Sample_Station_3
04	Sample_Station_4
05	Sample_Station_5
06	Sample_Station_6
07	Sample_Station_7

- Observation Station Name
- Time Period / / - : --- / / - :
- Data Interval 30min 1hr daily other
- Timezone UTC+09 :
- Description(optional)
- Number of observed elements in this file

Projectname=Guest-Project

CONTACT : [Eiji Ikoma](#)

STEP2

Step 1 -----> **Step 2** -----> Step 3 -----> Step 4

Data Information

Project Name	Guest-Project	Observation Station	Sample_Station_2
Time Period	2000/07/20 16:34 ---2011/06/24 21:37		
Data Interval	30min	Timezone	UTC+09:00
Description			

You can select one of those to help your data information input. Also, you can revise the data in an overwrite mode.
 Your Previous input records -> Please Select

If you want to change the number of your parameters, please select the correct number of data, and confirm it.
 Change the number of your parameters -> 5 data

*Required item

No.	parameter *	sensor height [m] cp No.1 to all	orientation (optional) cp No.1 to all	unit	missing value cp No.1 to all	description cp No.1 to all
1	6:Specific Humidity	1		g/kg		
2	18:Skin Temperature	1		degC		
3	25:Vegetation	1				
4	27:Soil Moisture			vol%		
5	55:Water Temperature			degC		

[Eiil Ikoma\(114\)](#)

- Observation element
 - Choose from a pull-down menu
- Sensor height
- Orientation (*optional*)
- Unit
- Missing value
- Description (*optional*)

STEP3

Step 1 ----> Step 2 ----> **Step 3** ----> Step 4

File Upload

FILE

Project Name	Guest-Project	Observation Station	Sample_Station_2
Time Period	2000/07/20 16:34 ---2011/06/24 21:37		
Data Interval	30min	Timezone	UTC+09:00
Description			

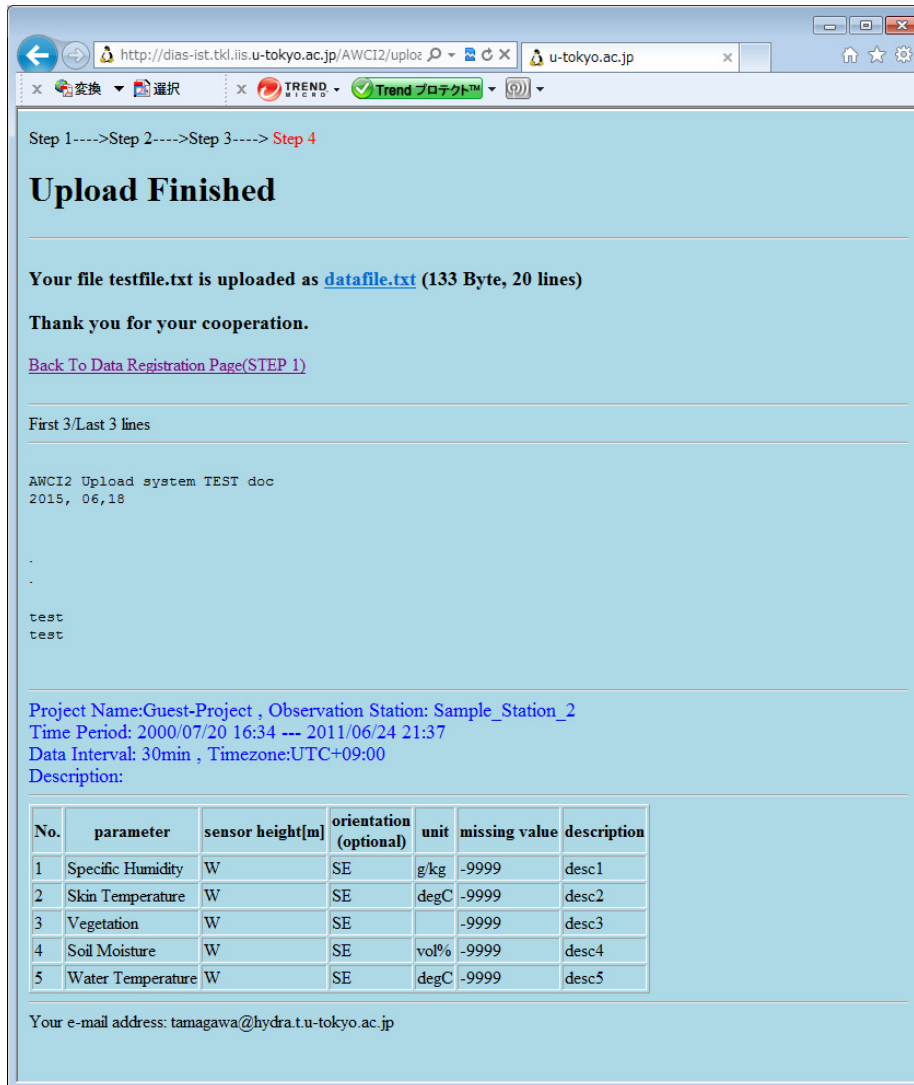
No.	parameter	sensor height	orientation (optional)	unit	missing value	description
1	Specific Humidity	W	SE	g/kg	-9999	desc1
2	Skin Temperature	W	SE	degC	-9999	desc2
3	Vegetation	W	SE		-9999	desc3
4	Soil Moisture	W	SE	vol%	-9999	desc4
5	Water Temperature	W	SE	degC	-9999	desc5

The same line parameters are displayed in pink.

CONTACT ;
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- Upload observation Data (File).
- Confirmation of metadata inputted at STEP 1, 2.

STEP 4



Step 1---->Step 2---->Step 3----> **Step 4**

Upload Finished

Your file testfile.txt is uploaded as [datafile.txt](#) (133 Byte, 20 lines)

Thank you for your cooperation.

[Back To Data Registration Page\(STEP 1\)](#)

First 3/Last 3 lines

```
AWCI2 Upload system TEST doc
2015, 06, 18
.
.
test
test
```

Project Name:Guest-Project , Observation Station: Sample_Station_2
 Time Period: 2000/07/20 16:34 --- 2011/06/24 21:37
 Data Interval: 30min , Timezone:UTC+09:00
 Description:

No.	parameter	sensor height[m]	orientation (optional)	unit	missing value	description
1	Specific Humidity	W	SE	g/kg	-9999	desc1
2	Skin Temperature	W	SE	degC	-9999	desc2
3	Vegetation	W	SE		-9999	desc3
4	Soil Moisture	W	SE	vol%	-9999	desc4
5	Water Temperature	W	SE	degC	-9999	desc5

Your e-mail address: tamagawa@hydra.t.u-tokyo.ac.jp

- Confirmation of
 - local path of the uploaded file
 - contents of the file (first/last 3 lines and all lines if requested)
 - All metadata inputted at STEP 1, 2, 3

After STEP 4

- Confirmation message sent by e-mail to the User.
- Inputted (partial) metadata are stored in the Upload system → User can retrieve them next time.
- Uploaded data is accessible through the Quality Control System

Upload Status Page

http://dias-ist.tkl.iis.u-tokyo.ac.jp/AWC12/upload/

u-tokyo.ac.jp

u-tokyo.ac.jp

変換 選択 TREND Trend プロジェクト™

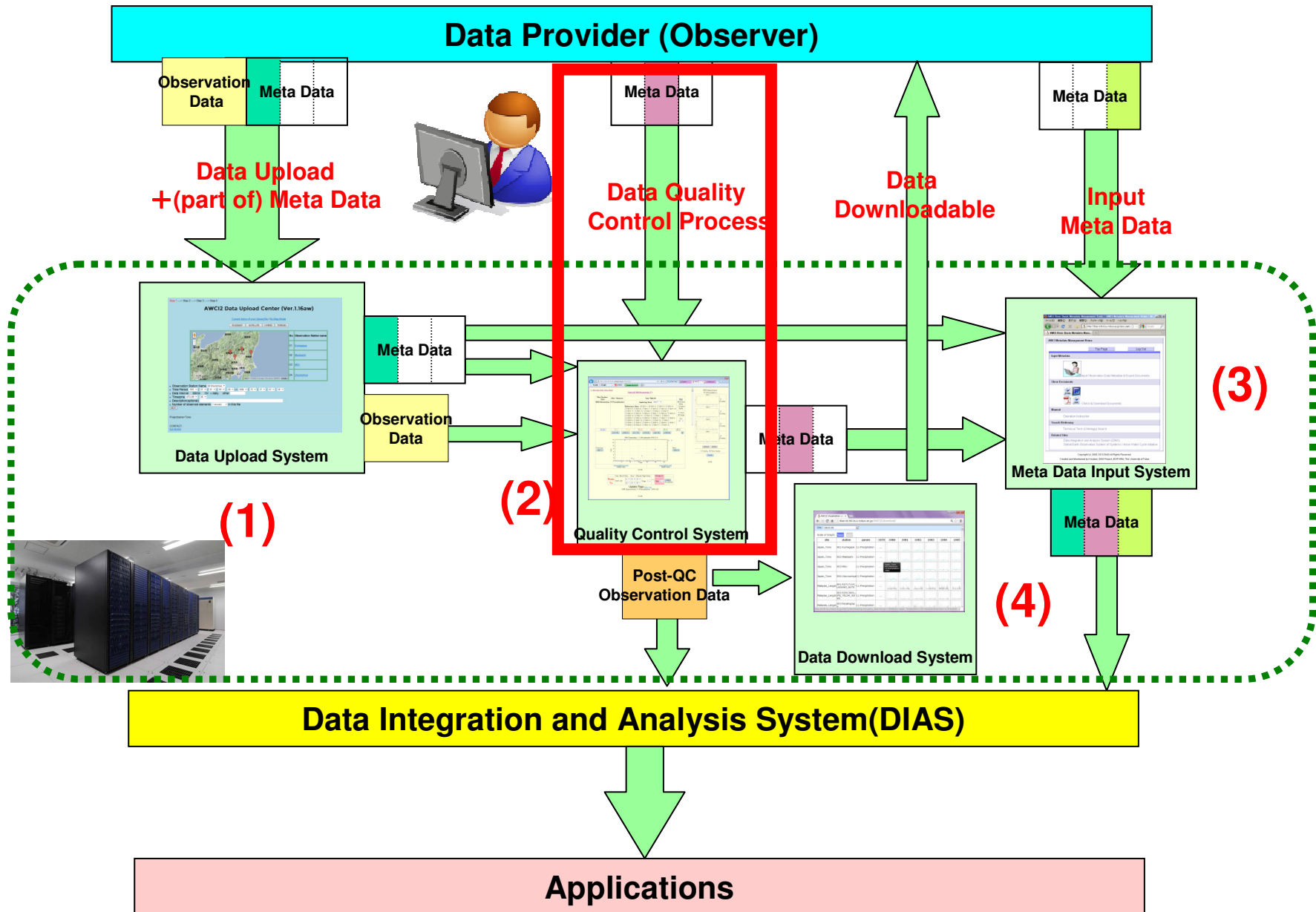
List of Uploaded File (Ver.1.10a)

Guest-Project [Download All "Guest-Project" Data\(zip format\)](#), [Upload Status](#)

Uploaded Date/Time	Observation Station Name	Num. of Param.	Start Time	End Time	Datafile	filesize (byte)	orgfilename	Docfile	Delete
2012/03/07 16:18:27 (+0900)	05:Sample_Station_5	3	1980/04/16 16:34	1996/01/14 21:37	txt	222		docfile	Delete
2012/03/07 17:21:22 (+0900)	02:Sample_Station_2	2	1980/04/16 16:34	1996/01/14 21:37	txt	225		docfile	Delete
2012/03/21 14:07:37 (+0900)	01:Sample_Station_1	1	1980/04/16 16:34	1996/01/14 21:37	txt	33		docfile	Delete
2012/03/21 14:09:55 (+0900)	07:Sample_Station_7	1	1980/04/16 16:34	1996/01/14 21:37	txt	33		docfile	Delete
2012/09/20 22:42:28 (+0900)	02:Sample_Station_2	2	2000/07/20 16:34	2011/06/24 21:37	txt	4933	aaaaaa.txt	docfile	Delete
2013/04/10 14:18:04 (+0900)	05:Sample_Station_5	2	2000/07/20 16:34	2011/06/24 21:37	txt	3206	awci2-project.txt	docfile	Delete
2013/06/12 12:19:09 (+0900)	02:Sample_Station_2	5	2000/07/20 16:34	2011/06/24 21:37	txt	133	testfile.txt	docfile	Delete

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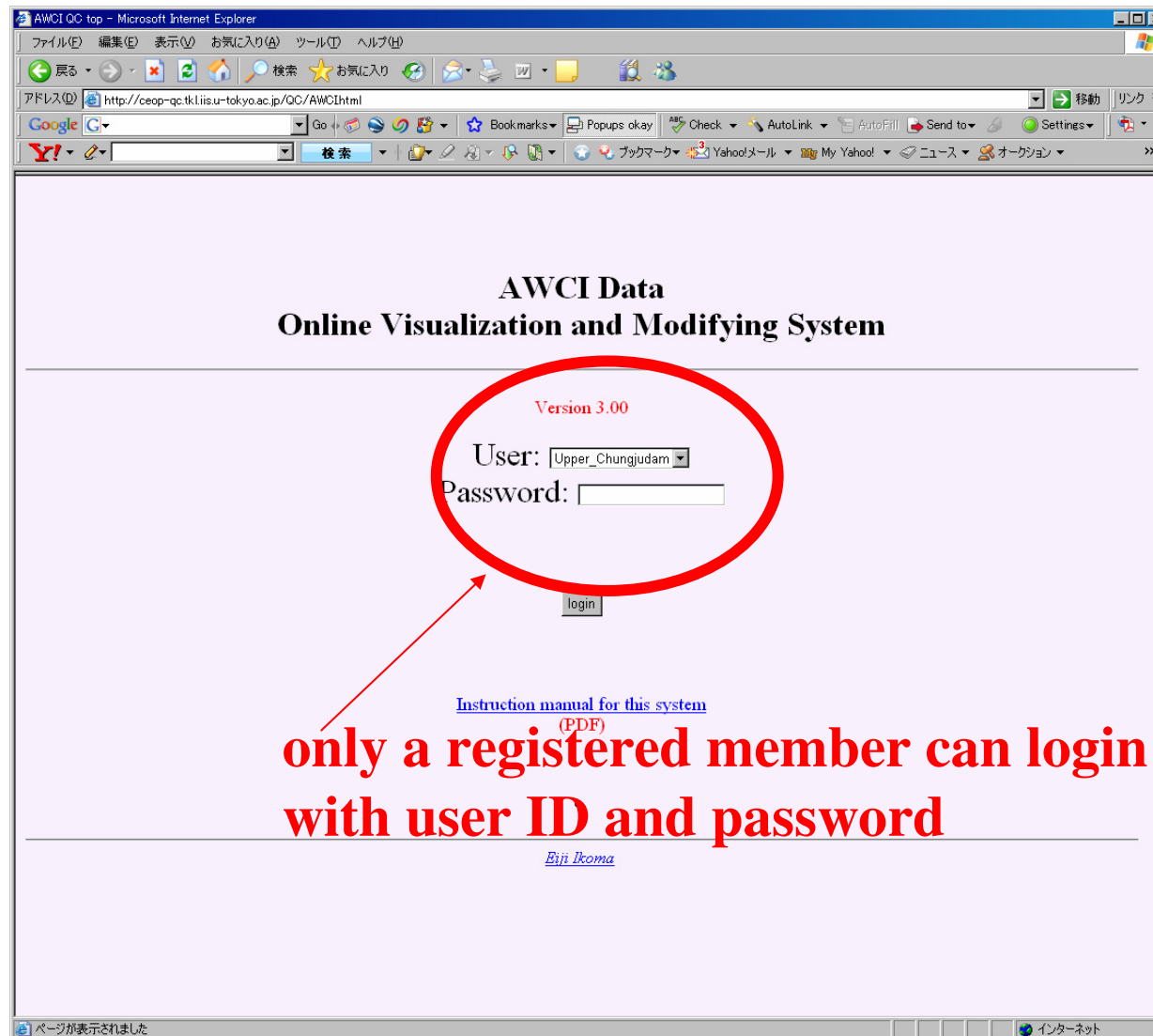
- Download each/all data files
- Check metadata
- Delete uploaded data



Our Data Quality Control (QC) System

- First version of the QC system was prototyped in 2002.
- Ver 3.05a is now running for AWCII2 (2012-)
- Web-based user interface, easy-to-use and light operation
- Post-QC Data Download, Progress management system is also available

AWCI Data-QC Toppage



AWCI Data
Online Visualization and Modifying System

Version 3.00

User:

Password:

[Instruction manual for this system \(PDF\)](#)

only a registered member can login with user ID and password

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AWCI QC top - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 検索 お気に入り 移動 リンク

アドレス(D) http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWC.html

Google 検索 Bookmarks Check AutoLink AutoFill Send to Settings

検索 ブックマーク My Yahoo! ニュース オークション

Obs.Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select!	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode TZ= 00

Data Selection window

Reference Window

**In-situ Data
Online Visualization and Modifying System**

Data Plot window
Version 3.00

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**Update Window
Data Update window**

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ページが表示されました インターネット

AWCI QC top - Microsoft Internet Explorer

アドレス http://ceop-qc.tk.liis.u-tokyo.ac.jp/QC/AWCI.html

Station([Bonghwa-AWS](#)) > [Month-Date\(2003-3 \)](#)

Obs. Station-Item	Obs. Element	Year-Month	Plot
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity 6:Sunshine_Duration

Quality Control Target data selection

Reference Window

Update Window

Version 3.00

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ページが表示されました

インターネット

Data hierarchy

[Station\(Bonghwa-AWS \)](#) > [Month-Date\(2003-3 \)](#)

Fixed

Fixed

Fixed

Reference Data Selection
In-situ Data

Online Visualization and Modifying System

Quality Control Target
data selection

AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCI.html

Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs. Station-Item	Obs. Element	Year-Month
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max
 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity
 6:Sunshine_Duration

Plot
 Normal Mode
 Expert Mode
 TZ= 00

UID=Upper_Chungjudam

2:Air_Temperature_Max

3:Air_Temperature_Min

5:Relative_Humidity

6:Sunshine_Duration

G(0) I(0) D(0) B(0) C(0) M(0) U(31)

Bonghwa AWS 1:Air_Temperature_Ave 2003-3

Confirmation(edit data dialog)

Download(Without flag) (GAME-AAN) Download(With flag) (GAME-AAN) Download All (zip-compressed, without flag) (GAME-AAN) Download All (zip-compressed, with flag) (GAME-AAN)

From: Day 01 Hour 00 Minute 00 Flag=Value --> Change to Flag= G Update (Tz=00:00)
 To: Day 31 Hour 23 Minute 59

Update Flags [Update a value](#)

Y-Axis: Real Normalized (Max/Min)

QC Target data

Refernce data

Data Plot

Flag Update Window

AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tk.iis.u-tokyo.ac.jp/QC/AWCI.html

Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs. Station-Item	Obs. Element	Year-Month
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max
 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity
 6:Sunshine_Duration

Plot
 Normal Mode
 Expert Mode
 TZ= 00

Number of each Flags

G(10)	I(0)	D(0)	B(0)	C(0)	M(0)	U(21)
-------	------	------	------	------	------	-------

Bonghwa AWS 1:Air_Temperature_Ave 2003-3

Confirmation(edit data dialog)

Download(Without flag) (GAME-AAN) Download(With flag) (GAME-AAN) Download All (zip-compressed, without flag) (GAME-AAN) Download All(zip-compressed, with flag) (GAME-AAN)

From:	Day: 01	Hour: 00	Minute: 00	Flag/Value:	Change to:	Update
To:	Day: 10	Hour: 23	Minute: 59	Flag= U	Flag= G	(Tz=00:00)

Update Flags [Update a value](#)

G: Good
I: Interpolated
D: Dubious/Questionable
B: Bad
C: Abnormal value
M: Missing
U: Unchecked

Flag Definitions

01 07 13 19 25 31
Date (TZ=00:00)

3:Air_Temperature_Min

01 07 13 19 25 31
Date (TZ=00:00)

5:Relative_Humidity

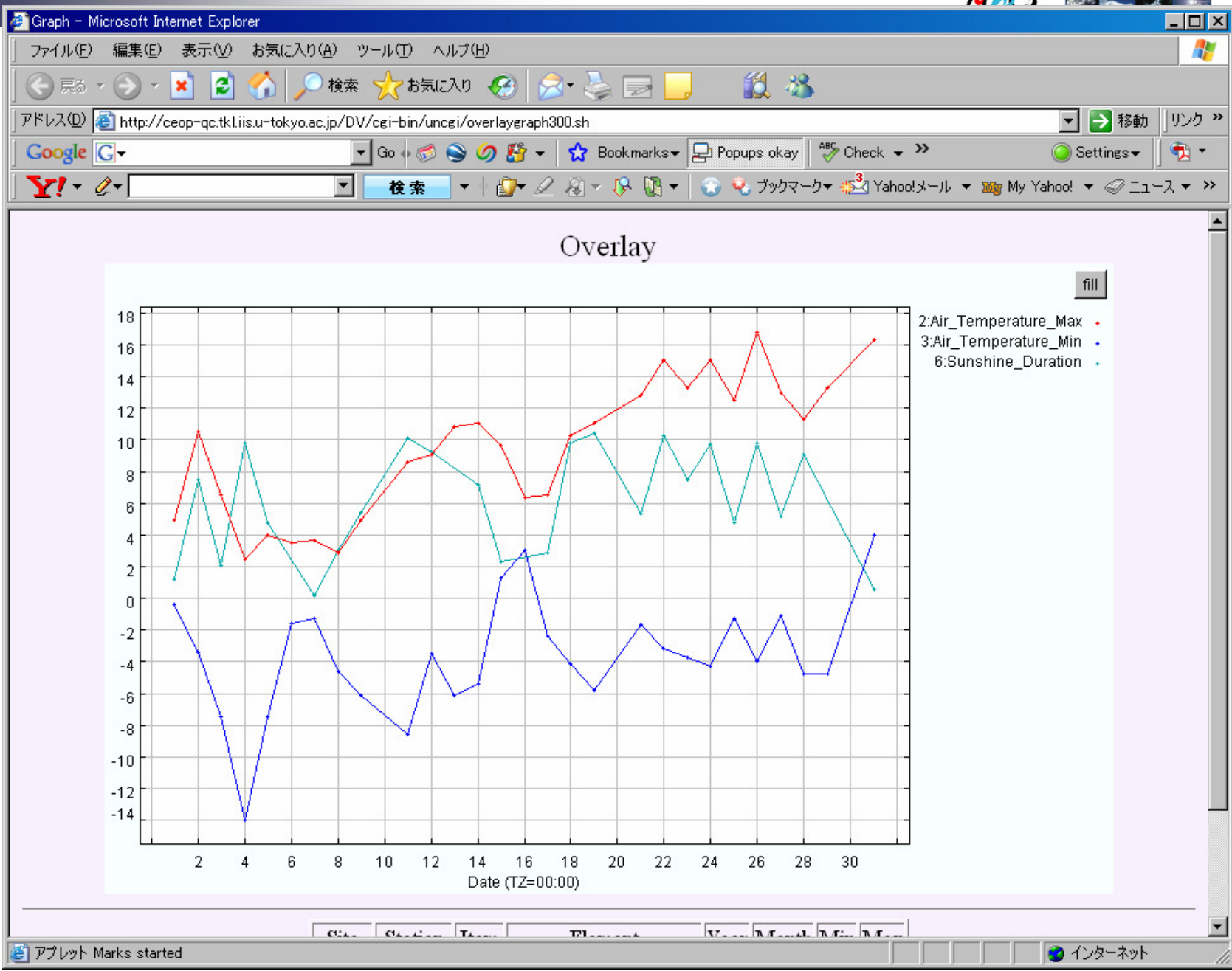
01 07 13 19 25 31
Date (TZ=00:00)

6:Sunshine_Duration

01 07 13 19 25 31
Date (TZ=00:00)

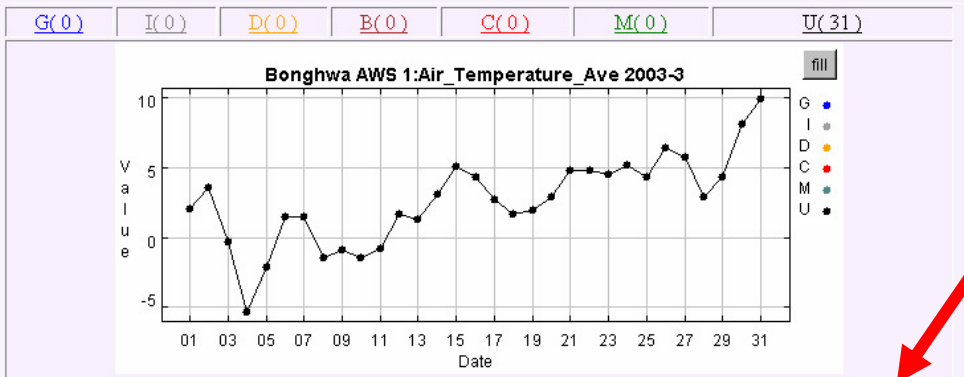
Y-Axis: Real Normalized (Max/Min)

Flag Updated data



Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs.Station-Item	Obs. Element	Year-Month	Plot
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode TZ= 00
Reference Data: <input type="checkbox"/> 1:Air_Temperature_Ave <input checked="" type="checkbox"/> 2:Air_Temperature_Max <input checked="" type="checkbox"/> 3:Air_Temperature_Min <input type="checkbox"/> 4:Wind_Speed <input checked="" type="checkbox"/> 5:Relative_Humidity <input checked="" type="checkbox"/> 6:Sunshine_Duration <input type="checkbox"/> allcheck <input type="checkbox"/> allclear			



Confirmation(edit data dialog)

[Download\(Without flag\)](#) (GAME-AAN)
 [Download\(With flag\)](#) (GAME-AAN)
 [Download All \(zip-compressed, without flag\)](#) (GAME-AAN)
 [Download \(zip-compressed, with flag\)](#) (GAME-AAN)

Update Flags

From: Day 01 Hour 00 Minute 00 Flag=Value
 To: Day 31 Hour 23 Minute 59 Flag=U
 Change to Flag=G (TZ=00:00)

AWCI QC top - Microsoft Internet Explorer

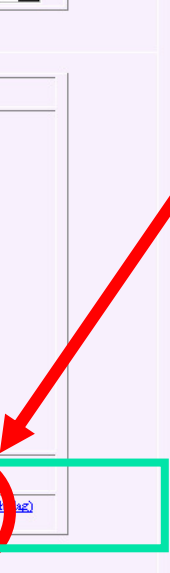
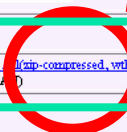
Station(Bonghwa-AWS) > Month-Date(2003-3) >

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max
 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity
 6:Sunshine_Duration allcheck allclear

Download(Without flag) (GAME-AAN)
 Download(With flag) (GAME-AAN)
 Download All (zip-compressed, without flag) (GAME-AAN)
 Download (zip-compressed, with flag) (GAME-AAN)

Y-Axis: Real Normalized (MaxMin) Overlay

Data download



Quality control flag definitions

Flag Definitions

G: Good

I : Interpolated

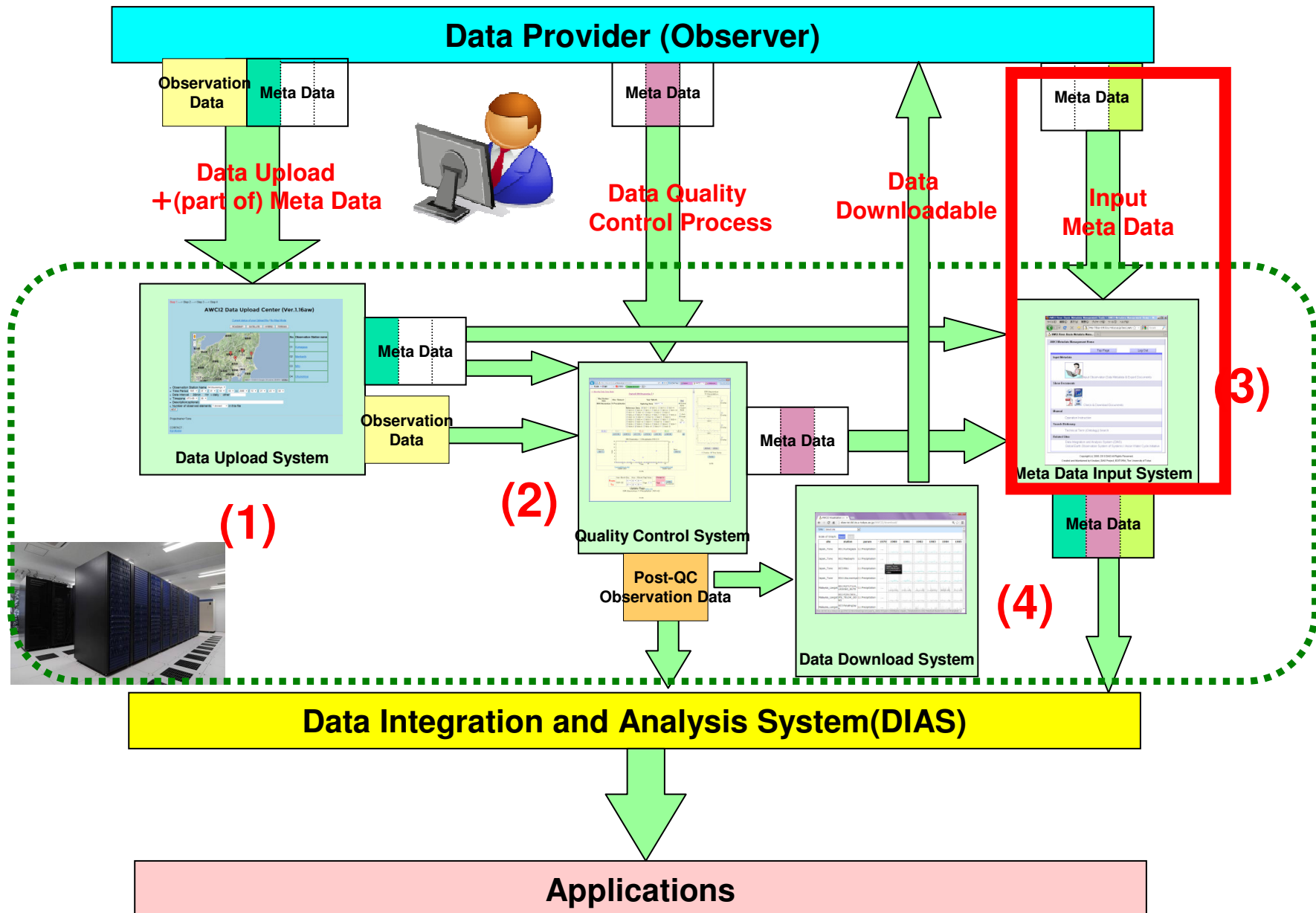
D: Dubious/Questionable

B: Bad

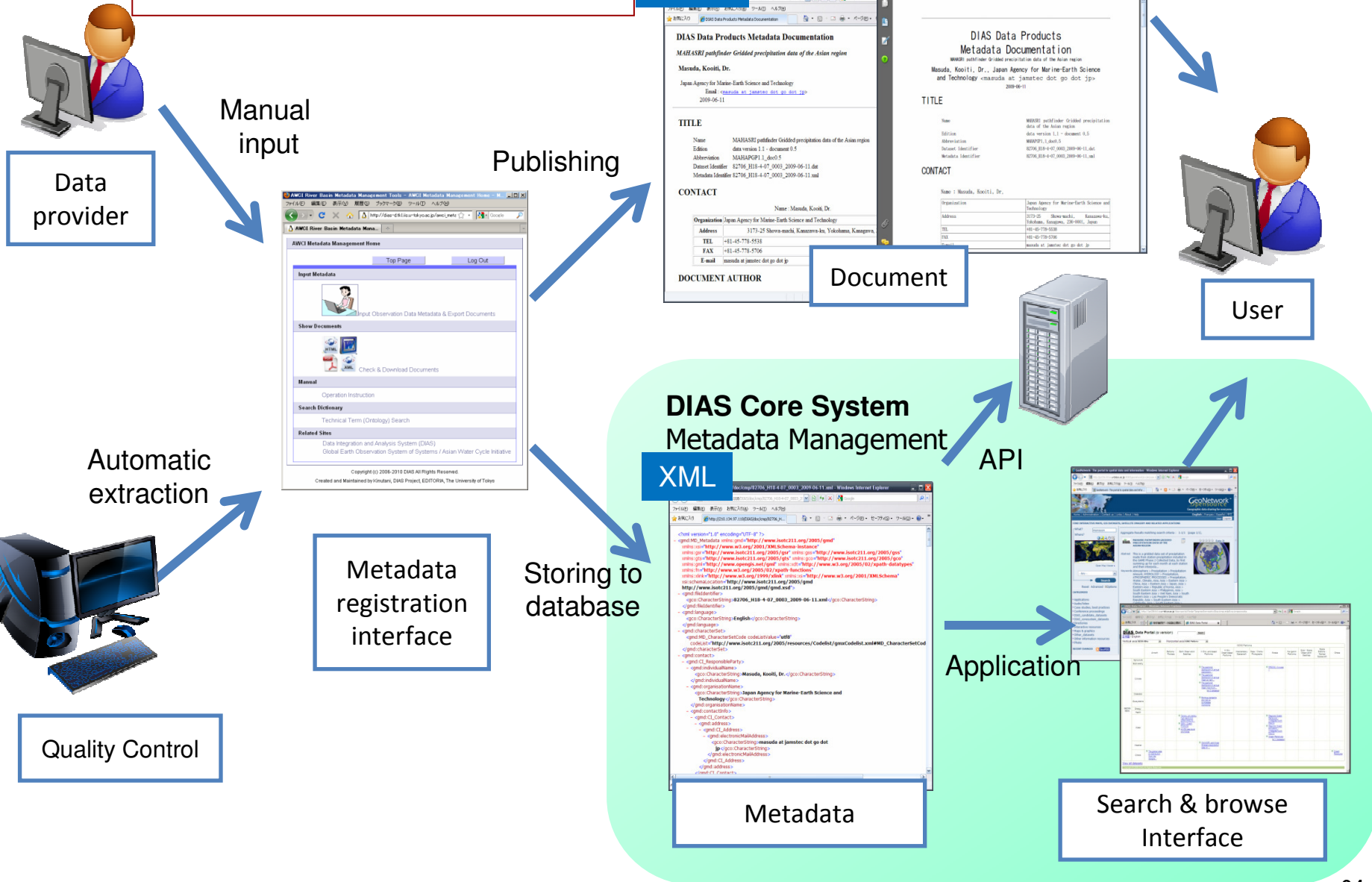
C: negative precipitation or Abnormal value

M: Missing

U: Unchecked



Role of Metadata & Dataset Documents



HTML

PDF

Data provider

Manual input

Publishing

Document

User

Automatic extraction

Metadata registration interface

Storing to database

DIAS Core System Metadata Management

XML

API

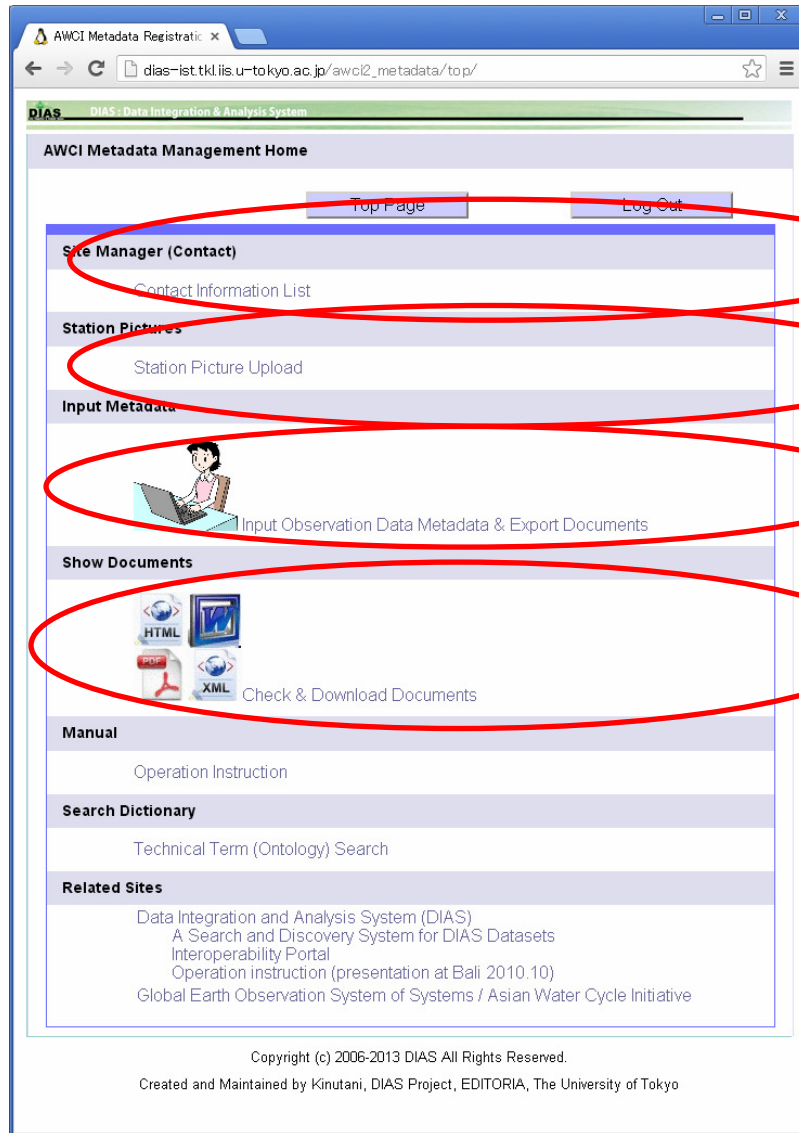
Quality Control

Metadata

Application

Search & browse Interface

Top Page http://dias-ist.tkl.iis.u-tokyo.ac.jp/awci2_metadata/



1. Contact Information List

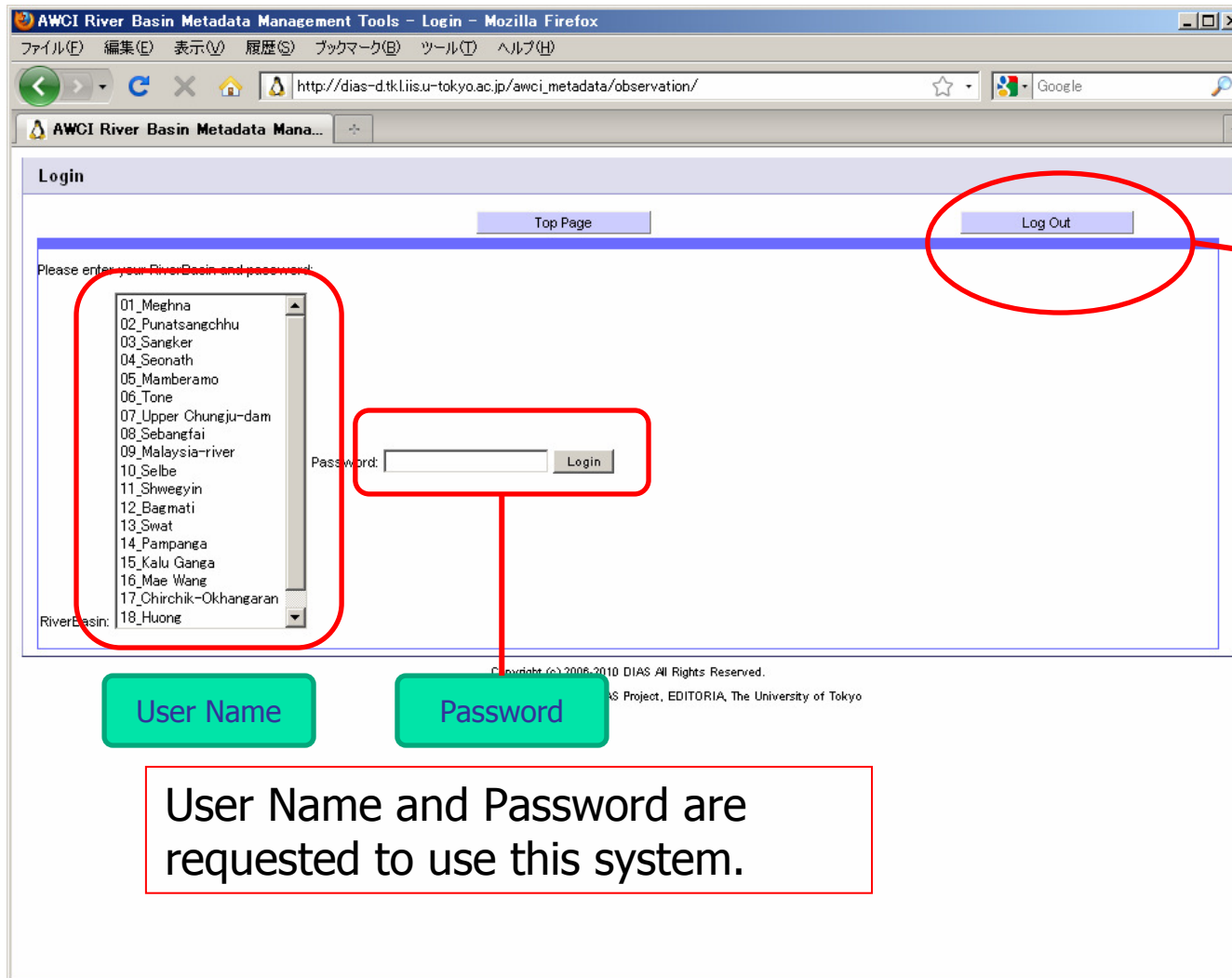
2. Station Photo Upload

3. Input metadata of each station, and export documents.

4. Display the list of the documents created before.

■ Please start from this page.

Login Page



AWCI River Basin Metadata Management Tools - Login - Mozilla Firefox

http://dias-d.tkl.iis.u-tokyo.ac.jp/awci_metadata/observation/

AWCI River Basin Metadata Mana...

Login

Top Page

Log Out

Please enter your RiverBasin and password:

01_Meghna
02_Punatsanechhu
03_Sangker
04_Seonath
05_Mamberamo
06_Tone
07_Upper Chungju-dam
08_Sebangfai
09_Malaysia-river
10_Selbe
11_Shwegyin
12_Baemati
13_Swat
14_Pampang
15_Kalu Ganga
16_Mae Wang
17_Chirchik-Okhangaran
18_Huone

Password: Login

RiverBasin:

User Name

Password

User Name and Password are requested to use this system.

Copyright (c) 2006-2010 DIAS All Rights Reserved.
S Project, EDITORIA, The University of Tokyo

When you finish your work, Click "Log Out".

1. Contact Information List

- Please make sure your contact information.

AWCI Metadata Registratic x DIAS Data Catalog x DIAS Data Integration and x dias-ist.tkl.iis.u-tokyo.ac.jp x

dias-ist.tkl.iis.u-tokyo.ac.jp/awci2_metadata/contactlist/

Top Page Log Out

Current status on 2013/6/10 13:05:40

Country : Bangladesh , River Basin : Meghna

Last updated 2012-05-18

Name	Organization	Address	TEL & FAX	E-mail	Role
Prof. Md. Mafizur Rahman	Bangladesh University of Engineering and Technology (BUET)	Dhaka-1000 Dhaka Bangladesh	TEL: +880-1911342276 FAX:	mafizur@gmail.com	principallInvestigator

Country : Bhutan , River Basin : Punatsangchhu

Last updated 2012-05-18

Name	Organization	Address	TEL & FAX	E-mail	Role
Mr. Karma Chhoppel	Hydromet Division of Department of Energy	Department of Energy, Ministry of Economic Affairs Thimphu 106 Bhutan	TEL: 975 2 328280 FAX: 975 2 324834	hmsd@druknet.bt chhoppel@gmail.com	principallInvestigator

Country : Cambodia , River Basin : Sangker

Last updated 2012-05-18

Name	Organization	Address	TEL & FAX	E-mail	Role
Mr. So Im Monichoth	Ministry of Water Resources and Meteorology	#576 National Road No 2 Sangkat Chak Angre Kram Phnom Penh 855 Cambodia	TEL: 855 23 425 645 FAX: 855 23 425 645	simchoth@yahoo.com	pointOfContact

Country : Indonesia , River Basin : Citarum

Last updated 2012-05-18

Name	Organization	Address	TEL & FAX	E-mail	Role
Prof. Ir. M. Syahril	Bandung Institute of Technology (ITB)	Research Divison of Water Resources Engineering, Faculty of Civil and Environmental Engineering, Jl. Ganesa 10 Bandung 40132 Indonesia	TEL: FAX:	msbadrik@lppm.itb.ac.id	principallInvestigator


2. Station Photo Upload

- After you uploaded your basin's photo, it will displayed in the metadata document.



The screenshot shows a web browser window titled "AWCI Metadata Registratic" with the URL "dias-ist.tkl.iis.u-tokyo.ac.jp/awci2_metadata/picture-upload/". The page header includes the "DIAS : Data Integration & Analysis System" logo and navigation buttons for "Top Page" and "Log Out".

The main content area is titled "AWCI Pictures upload of Japan Stations." and features a dropdown menu for selecting a station. The selected station is "01:Kumagaya". Below the dropdown, there is a table with two columns: "Saved picture" and "Upload picture".

Saved picture	Upload picture
	Upload file name is Sunset.jpg. (File size : 71189) 

Below the table, there is an "Upload Pictures" section with a table showing the upload progress for the selected station:

Station	Photo	File Size	Status	Actions
01:Kumagaya	Sunset.jpg	69.5 KB	✘	<input type="button" value="Save and replace a picture"/> <input type="button" value="Upload other station"/> <input type="button" value="Upload"/>

At the bottom of the page, there is a copyright notice: "Copyright (c) 2006-2013 DIAS All Rights Reserved. Created and Maintained by Kinutani, DIAS Project, EDITORIA, The University of Tokyo".

3. Input Metadata Page

AWCI Observation Data Metadata Registration System (Japan Tone)

Your metadata registration status is "processing".

Please select
 Yes

Please make sure whether all of your uploaded data parameters are displayed or not, and your specified characteristics of each data are displayed.

Observed parameter and description required!	Height(unit:m) Orientation Unit	Data interval	Calculation method	Instrument Manufacturer and Model
1 obs001	H: 0.0 O: U: unit		Select calculation method 1. Instaneous values 2. Averaged value over the previous time 3. Accumulated value over the previous time 4. other	Manufacturer <input type="text"/> Model <input type="text"/> Most Frequently Used <input type="text"/> Candidate <input type="text"/>
Observed parameter and description required!	Height(unit:m) Orientation	Data	Calculation method	Instrument

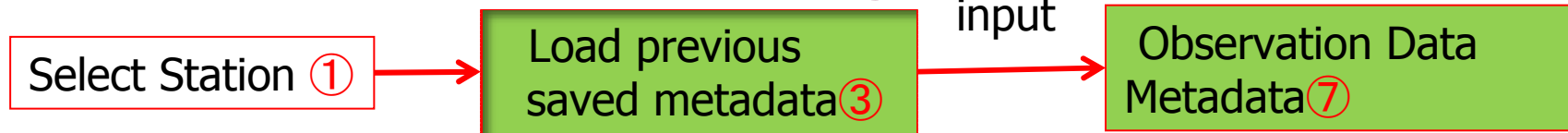
Select Station ①

Load previous saved metadata ③

Observation Data Metadata ⑥
or Document Metadata ⑦

Created and Maintained by Kinutani, DIAS Project, EDITORIA, The University of Tokyo

3. Input Metadata Page



Select Station: 13:MAEBASHI Display Help: Yes Load Save Reset

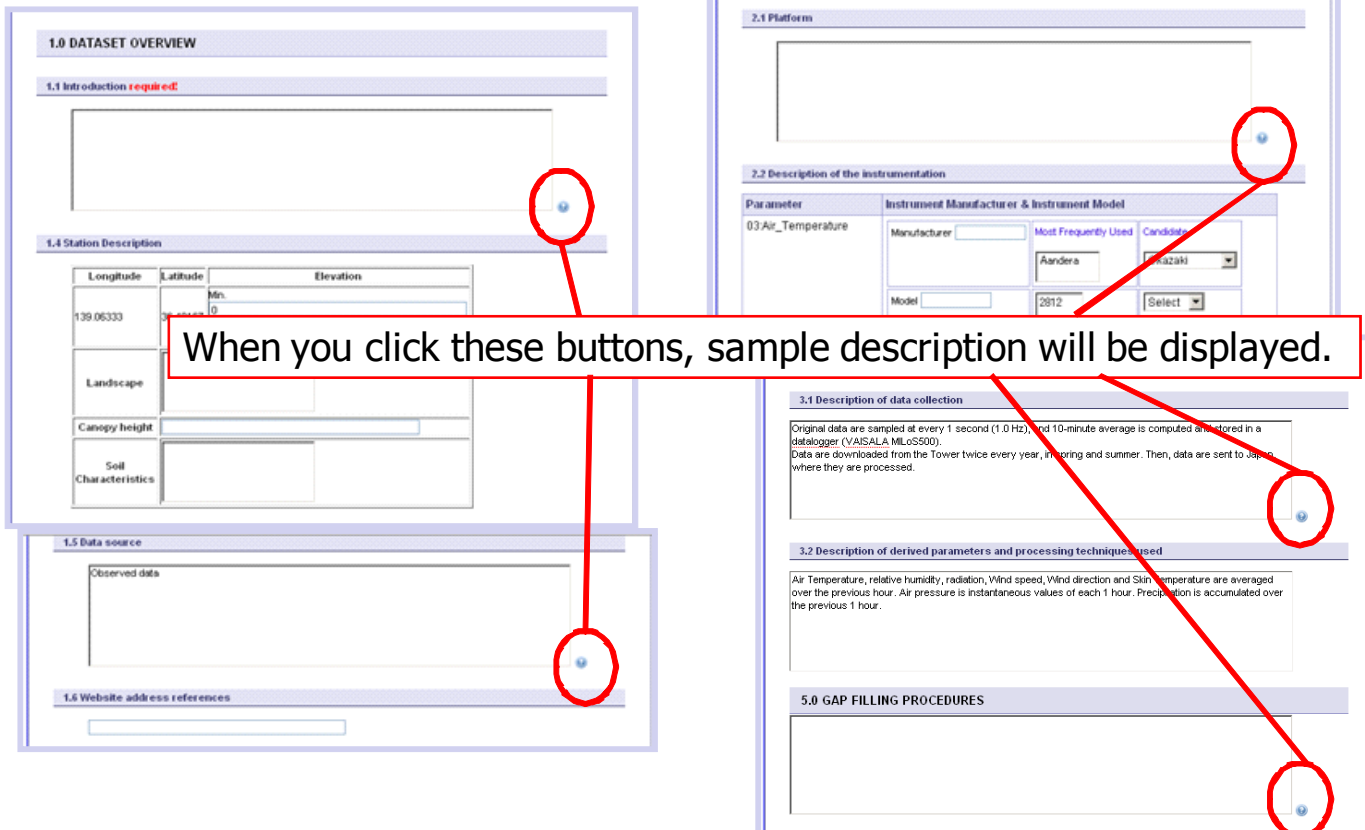
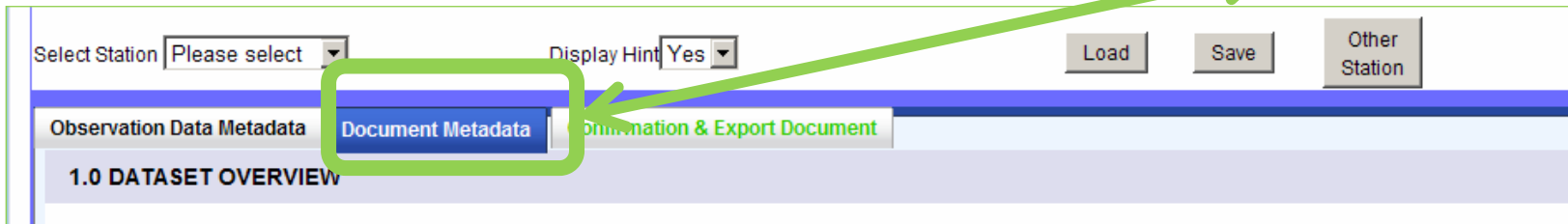
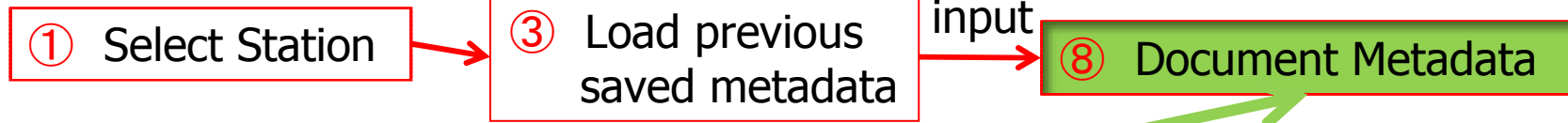
⑦ Observation Data Metadata Document Metadata Confirmation & Export Document

Please make sure whether all of your uploaded data parameters are displayed or not, and your specified characteristics of each data are displayed.

Observed parameter and description required!	Height(unit:m) Orientation Unit	Data interval	Calculation method	Instrument Manufacturer and Model		
1 03:Air_Temperature Air Temperature	H: <input type="text"/> O: <input type="text"/> U: degC	1 hr	Select calculation method 1.Instantaneous values 2.Averaged value over the previous time 3.Accumulated value over the previous time 4.other	Manufacturer <input type="text"/>	Most Frequently Used Aandera	Candidate Select
2 07:Wind_Speed Wind Speed	H: <input type="text"/> O: <input type="text"/> U: m/s	1 hr	Select calculation method 1.Instantaneous values 2.Averaged value over the previous time 3.Accumulated value over the previous time 4.other	Manufacturer <input type="text"/>	Most Frequently Used KAIJO	Candidate Select
				Model <input type="text"/>	2812	Select
					KPA-100S	Select
				Set Clear		

There are metadata input boxes of observed parameters.

3. Input Metadata Page



3. Input Metadata Page

Select Station ①

Load previous saved metadata ③

Save, Confirmation & Export Document ⑧

Parameter	Instrument Manufacturer	Instrument Model
03:Air_Temperature		
07:Wind_Speed		

4. Show Document Page

AWCI Observation Metadata Document List 0.2 Japan-Tama / Tama-river

Top Page Log Out

Metadata Document List 99.Japan-Tama

Show document list

Click

You will display or download the document when you click the icon.

Station File name

AWCI Observation Metadata Document List 0.4 Myanmar / Shwegyin

Top Page Log Out

Metadata Document List 11.Myanmar

Show document list

Station	File name	HTML	PDF	MS Word	Metadata XML
1 Shwegyin	AWCI_Shwegyin_Shwegyin_20030101_20041231.ext Data Download	HTML 2010/10/04 15:29	PDF 2010/10/04 15:29	MS Word 2010/10/04 15:29	XML 2010/10/04 15:29

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ファイルのダウンロード

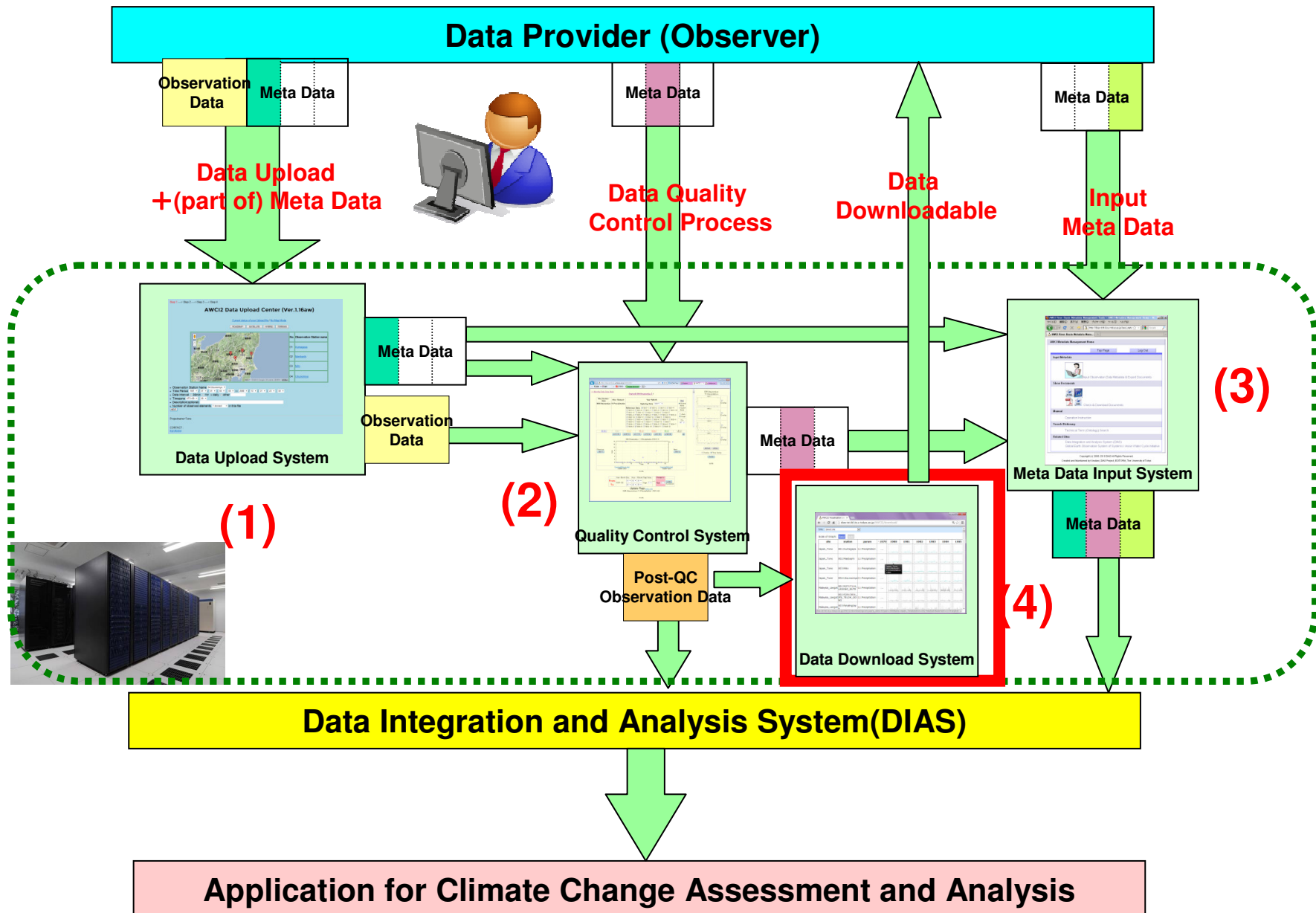
このファイルを開くか、または保存しますか?

名前: AWCI_Shwegyin_Shwegyin_20030101_20041231.ext.csv
種類: Microsoft Office Excel CSV ファイル
発信元: dias-d.tkl.iis.u-tokyo.ac.jp

開く(O) 保存(S) キャンセル

インターネットのファイルは役に立ちますが、ファイルによってはコンピューターに問題を引き起こすものもあります。発信元が信頼できない場合は、このファイルを開いたり保存したりしないでください。危険性の説明

After quality checked data is passed to this system, you can download your data from here.



AWCI2 Data Visualization & Downloading System

System features:

- **Visualize uploaded data.**
- **Download data on demand.**

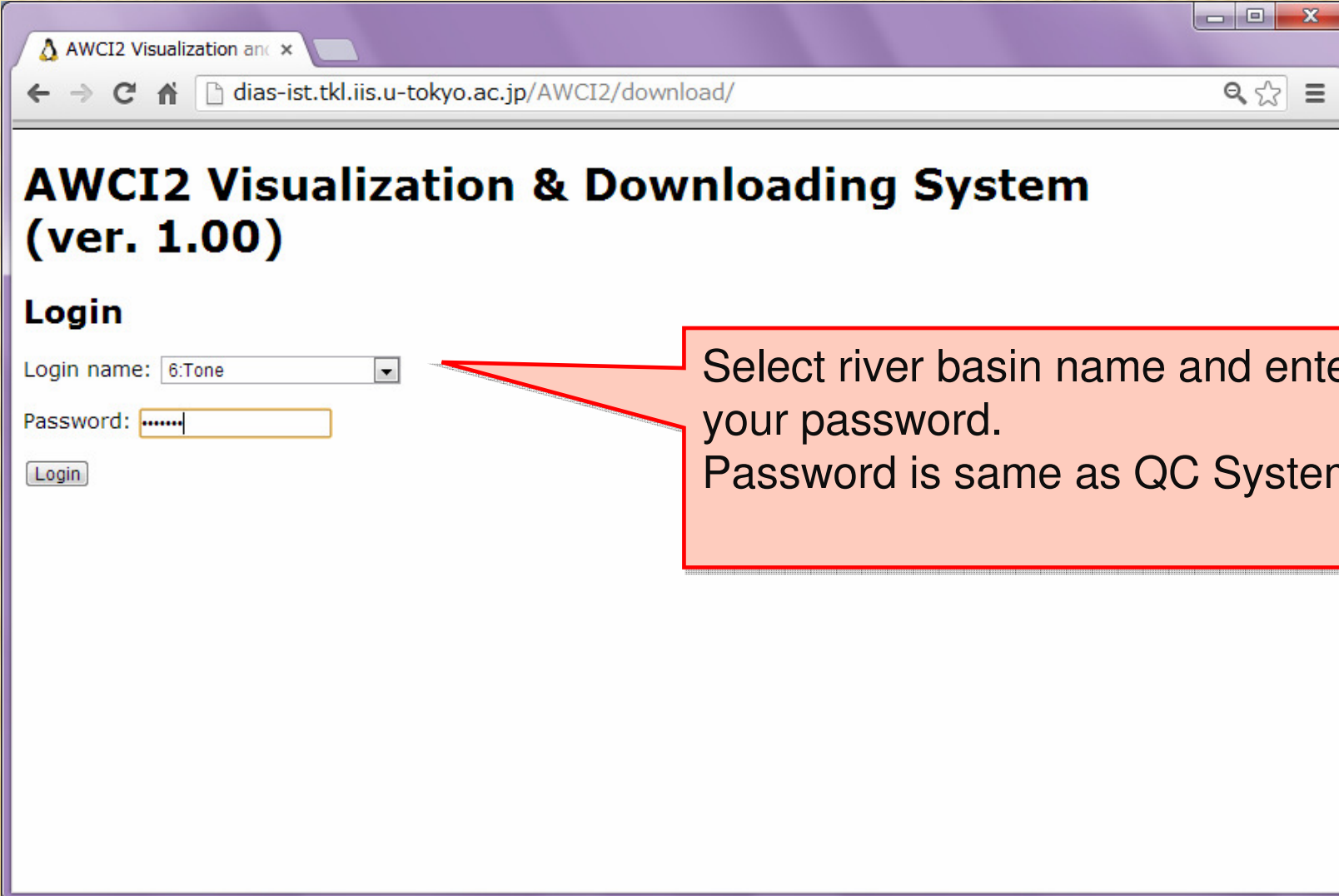
- **Confirmed to support:**

- ✓ OS : Windows 7
- ✓ Browser : IE v11 / FireFox v16 / Google Chrome v26 / Safari v5.17

AWCI2 Data Visualization & Downloading System

Step. 1 Login

<http://dias-ist.tkl.iis.u-tokyo.ac.jp/AWCI2/download/>



**AWCI2 Visualization & Downloading System
(ver. 1.00)**

Login

Login name: 6:Tone

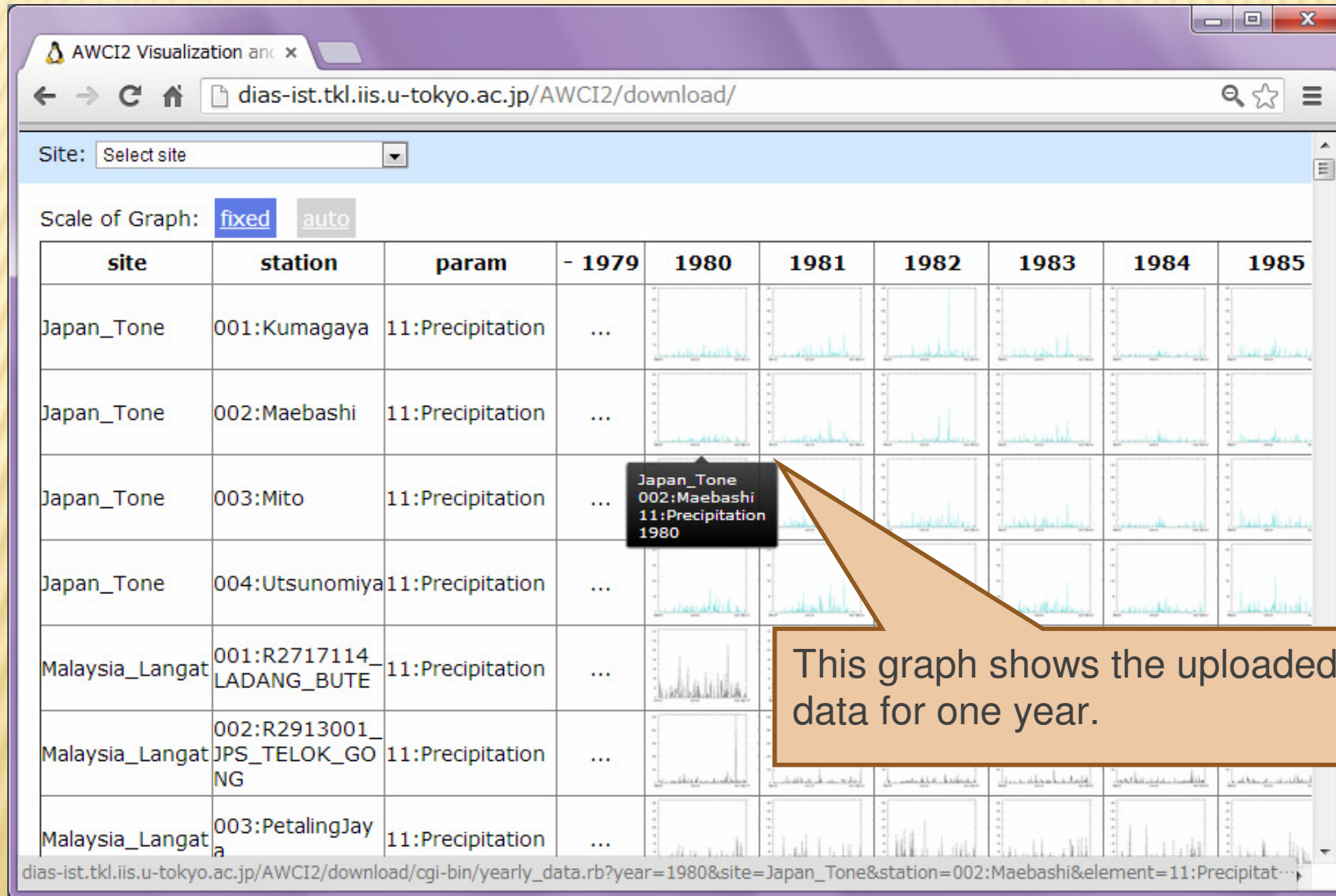
Password:

Login

Select river basin name and enter your password.
Password is same as QC System.

AWCI2 Visualization & Downloading System

Step. 2 Data Visualization



This graph shows the uploaded data for one year.

AWCI2 Visualization & Downloading System

Step. 2 Data Visualization

Select a "River basin" from the pull-down menu.

Site	Scale	param	- 1979	1980	1981	1982	1983	1984	1985
Japan_Tone									
Japan_Tone		:Precipitation	...						
Japan_Tone		:Precipitation	...						
Japan_Tone		:Precipitation	...						
Japan_Tone	004:Utsunomiya	11:Precipitation	...						
Malaysia_Langat	001:R2717114_LADANG_BUTE	11:Precipitation	...						
Malaysia_Langat	002:R2913001_JPS_TELOK_GONG	11:Precipitation	...						
Malaysia_Langat	003:PetalingJaya	11:Precipitation	...						

Step. 3-1 Downloading a dataset

AWCI2 Visualization and Downloading System

Site: Period: Year/Month -

Station:

001:Kumagaya 002:Maebashi 003:Mito 004:Utsunomiya

A mail will be sent with a link to the zipped dataset file.
Mail to:

Scale of Graph:

site	station	param	- 1979	1980	1981	1982	1983	1984	1985
Japan_Tone	001:Kumagaya								
Japan_Tone	002:Maebashi								
Japan_Tone	003:Mito								
Japan_Tone	004:Utsunomiya	11:Precipitation	...						
Malaysia_Langkat	001:R2717114	11:Precipitation							

AWCI2 Visualization & Downloading System ver. 1.00

Step. 3-1 Downloading a dataset

AWCI2 Visualization and Downloading System

Site: Period: Year/Month -

Station:

001:Kumagaya 002:Maebashi 003:Mito 004:Utsunomiya

A mail will be sent with a link to the zipped dataset file.

Mail to:

Scale of Graph: fixed auto

site	station	param	- 197	84	1985
Japan_Tone	001:Kumagaya	11:Precipitation	...		
Japan_Tone	002:Maebashi	11:Precipitation	...		
Japan_Tone	003:Mito	11:Precipitation	...		
Japan_Tone	004:Utsunomiya	11:Precipitation	...		
Malaysia_Langkat	001:R2717114	11:Precipitation	...		

AWCI2 Visualization & Downloading System

2014/9/22
ver. 1.00

Step. 3-1-1 Downloading a dataset

AWCI2 Visualization and Downloading System

Site: Japan_Tone Period: Year/Month 1901 1 - 2000 12

Station:
 001:Kumagaya 002:Maebashi 003:Mito 004:Utsunomiya

A mail will be sent with a link to the data.
Mail to: dias-insitu@editoria.u-tokyo.ac.jp

Scale of Graph:

site	station	param	- 1979	1980	1982	1983	1984	1985
Japan_Tone	001:Kumagaya	11:Precipitation						
Japan_Tone	002:Maebashi	11:Precipitation	...					
Japan_Tone	003:Mito	11:Precipitation	...					
Japan_Tone	004:Utsunomiya	11:Precipitation	...					
Malaysia_Langkat	001:R2717114	11:Precipitation						

Request sent

After the data is ready, e-mail will be sent.

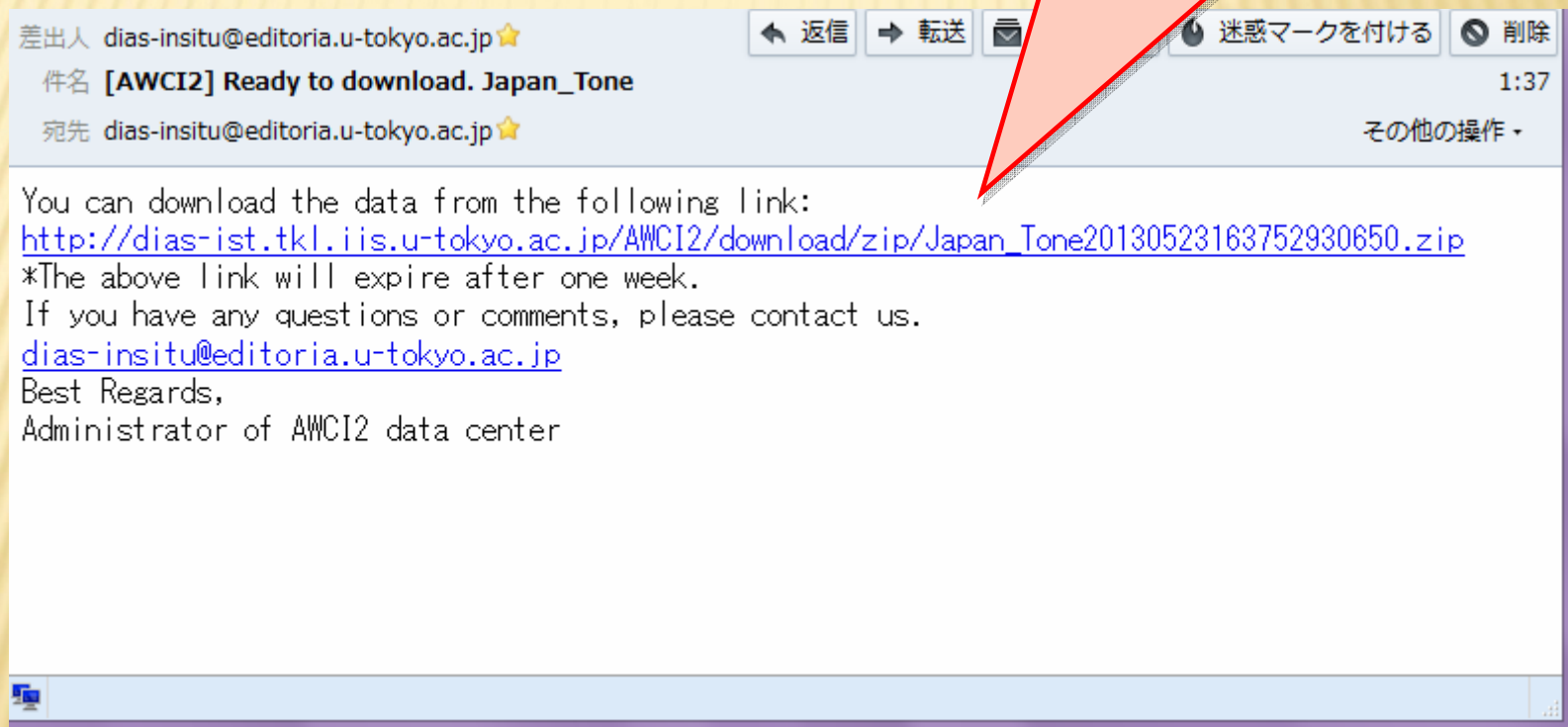
Ok

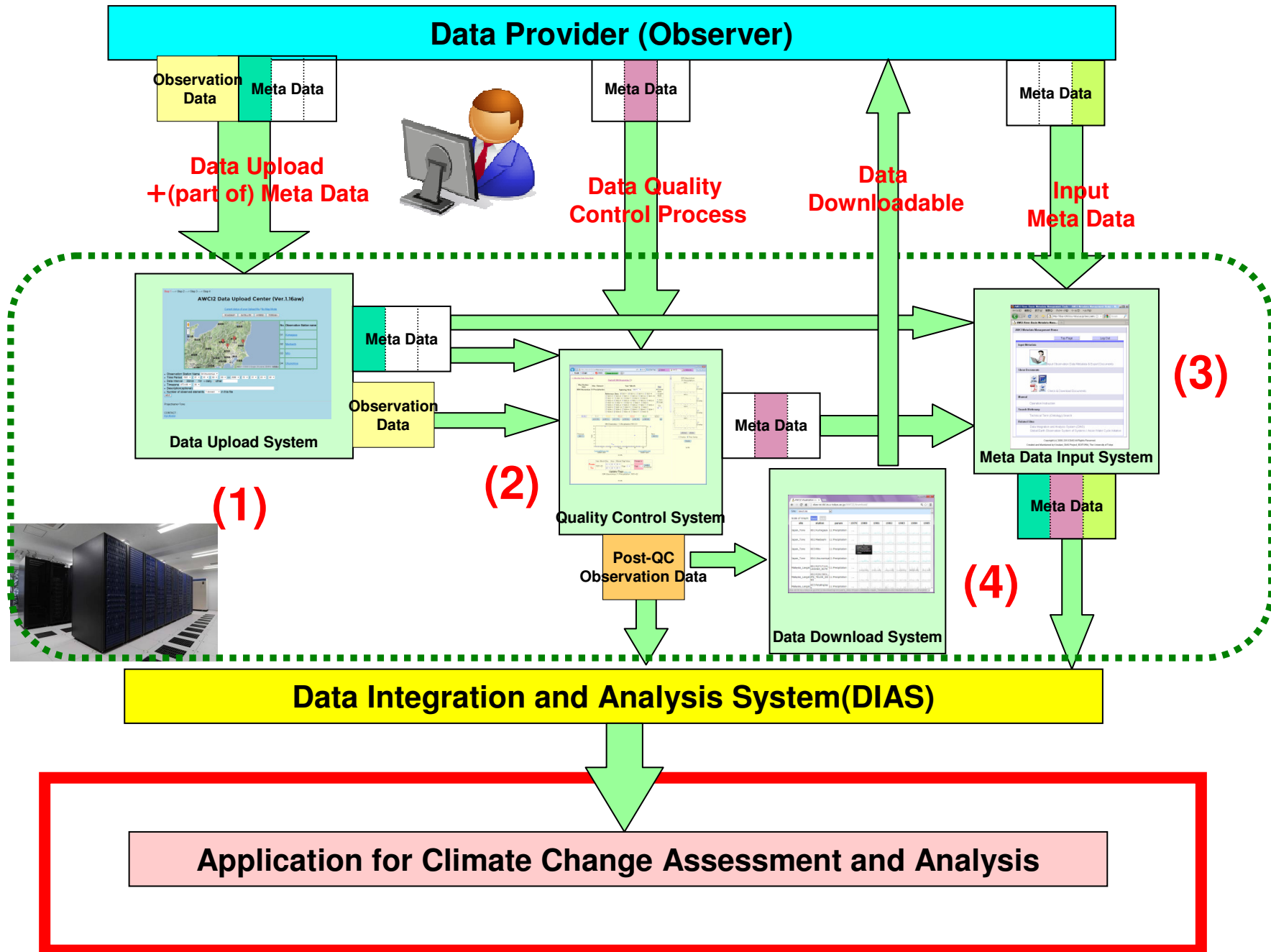
A mail will be sent to your e-mail address.

Step. 3-1-2 Downloading a dataset

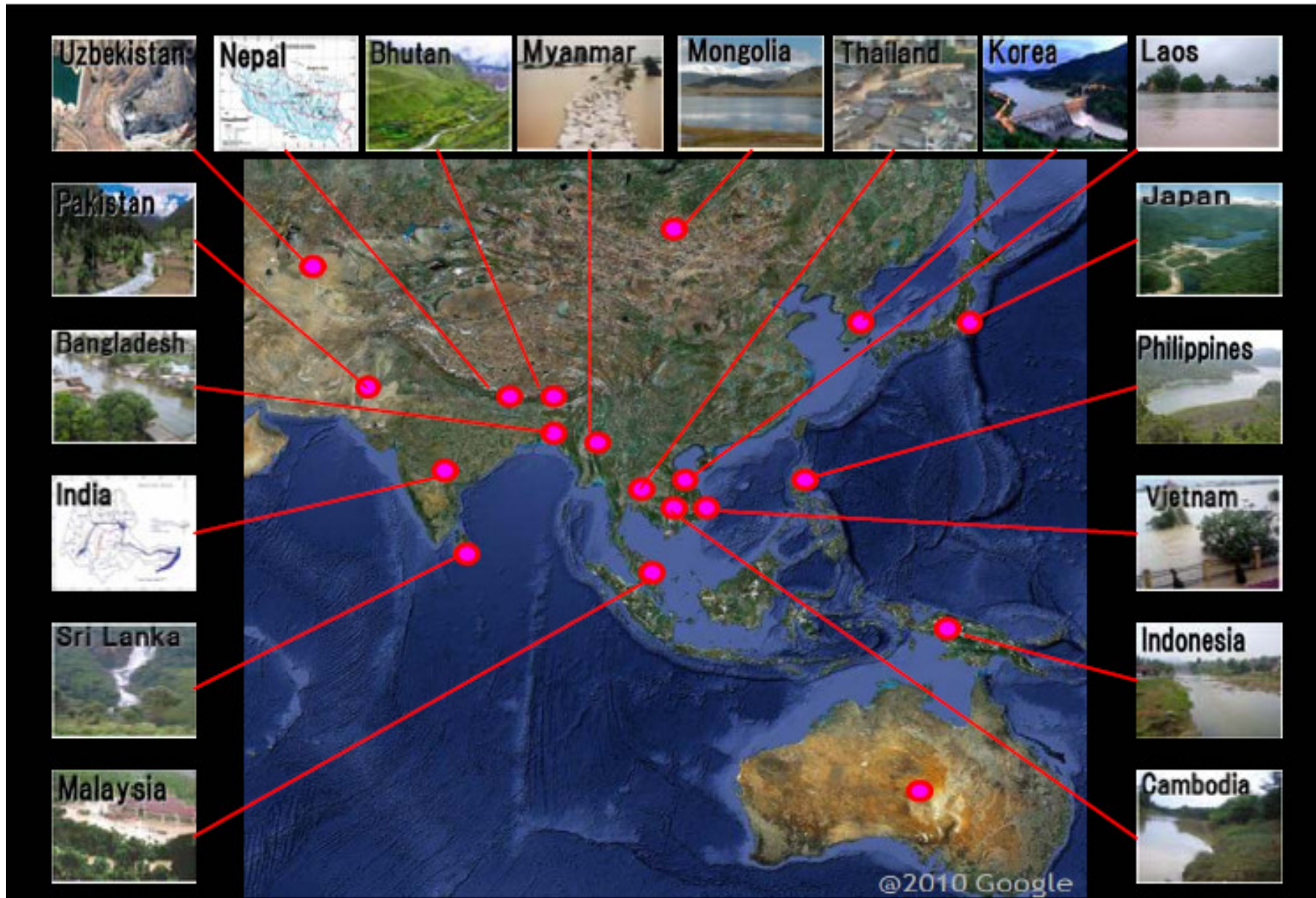
Sample e-mail contents

Click to download the dataset.





20-year Long-term precipitation data from 18 countries in Asia region



AWCI Phase2 Data Archive



20-year Long-term precipitation data from 18 countries in Asia region

#	Country	CCAA Study Basin Name	Identical with AWCI DP basin?	# of Stations.	Obs.	Period (longest period)
1	Bangladesh	Meghna	yes	8	Precipitation	1980 - 2000
2	Bhutan	Punatsangchhu	yes	14	Precipitation	1985 - 2010
3	Cambodia	Sangker	yes	5	Precipitation	1981 - 2008
4	India	Upper Bhima	no	36 17 10	Precipitation Discharge Temperature	1970 - 2006 1973 - 2007 1985 - 2002
5	Indonesia	Citarum	no	116	Precipitation	1980 - 2009
6	Japan	Tone	yes	4	Precipitation	1901 - 2000
7	Korea	Upper Chungju-dam	yes	8	Precipitation	1980 - 2000
8	Lao PDR	Sebangfai	yes	5	Precipitation	1988 - 2013
9	Malaysia	Langat	yes	19	Precipitation	1980 - 2000
10	Mongolia	Tuul	no	8	Precipitation	1980 - 2000
11	Myanmar	Shwegyin	yes	3	Precipitation	1980 - 2000
12	Nepal	Narayani	no	51	Precipitation	1957 - 2010
13	Pakistan	Hunza	no	2	Precipitation	1999 - 2008
14	Philippines	Pampanga	yes	3 6	Precipitation AWS	1961 - 2000 1961 - 2011
15	Sri Lanka	Kalu Ganga	yes	8	Precipitation	1980 - 2010
16	Thailand	Mae Wang	yes	6	Precipitation	1921 - 2011
17	Uzbekistan	Chirchik-Okhangaran	yes	11	Precipitation	1979 - 2005
18	Vietnam	Huong	yes	9	Precipitation	1976 - 2009

In-situ Data Management System Summary

- Web-based, user-friendly, light-operation tool set:
 - In-situ data upload on to the system by user (data observer/provider/manager)
 - Data quality control functions – visual inspection
 - Metadata registration (observation metadata, document metadata) and generation of standardized metadata document -> various formats -> interoperability
 - Uploaded data visualization and download function
- Significant reduction of pre-processing workload
- Security measures -> uploaded data available only to data provider – unless he agrees with data publication
- “All-in-one” system, user-tailored

When you have some inquiry or
comments, please contact us:

In-situ data Management Staff

dias-insitu@editoria.u-tokyo.ac.jp

Thank you for your attention.



AWCI QC top - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 検索 お気に入り

アドレス http://ceop-qc.tk.iis.u-tokyo.ac.jp/QC/AWCi.html

Google Go Bookmarks Popups okay Check AutoLink AutoFill Send to Settings

検索 Yahoo!メール My Yahoo! ニュース オークション

Obs. Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select!	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode
An_Heung-AWS			TZ= 00
Back_Un-AWS			
Bang_Rim-AWS			
Bongrim-AWS			
Beongrim-AWS			
Bong_Pyong-AWS			
Bong_Yang-AWS			
Bonghwa-AWS			
Cheong_Ok_San-AWS			
Cheong_Pung-AWS			

In-situ Data Online Visualization and Modifying System

Version 3.00

[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

Reference Window

[Eiji Ikoma](#)

ページが表示されました

インターネット



AWCI QC top - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 検索 お気に入り

アドレス http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCi.html

Google 検索 Bookmarks Popups okay ABC Check AutoLink AutoFill Send to Settings

検索 Yahoo!メール My Yahoo! ニュース オークション

Obs. Station-Item	Obs. Element	Year-Month	Plot
Please Select!	1:Air_Temperature_Ave 1:Air_Temperature_Ave 1:Precipitation 1:Streamflow 2:Air_Temperature_Ave 2:Air_Temperature_Max 3:Air_Temperature_Max 3:Air_Temperature_Min 4:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity 5:Wind_Speed	Please Select!	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode TZ= 00

In-situ Data
Online Visualization and Modifying System

Version 3.00

[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

ページが表示されました

インターネット



AWCI QC top - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 検索 お気に入り

アドレス(D) http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCI.html

Google Go Bookmarks Popups okay Check AutoLink AutoFill Send to Settings

検索

Obs.Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select! Please Select! 2003-1 2003-2 2003-3 2003-4 2003-5 2003-6 2003-7 2003-8 2003-9 2003-10	<input type="button" value="Plot"/> <input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode TZ= 00

Reference Window

**In-situ Data
Online Visualization and Modifying System**

Version 3.00

[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

ページが表示されました

インターネット

AWCI QC top - Microsoft Internet Explorer

アドレス http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCi.html

Station([Bonghwa-AWS](#)) > [Month-Date\(2003-3 \)](#) >

Obs. Station-Item	Obs. Element	Year-Month
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max
 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity
 6:Sunshine_Duration

Plot
 Normal Mode
 Expert Mode
 TZ= 00

UID=Upper_Chungjudam

2:Air_Temperature_Max

 Overlay

3:Air_Temperature_Min

 Overlay

5:Relative_Humidity

 Overlay

6:Sunshine_Duration

 Overlay

Y-Axis: Real Normalized (Max/Min)

G(0) I(0) D(0) B(0) C(0) M(0) U(31)

Bonghwa AWS 1:Air_Temperature_Ave 2003-3

 Confirmation(edit data dialog)

Download(Without flag) (GAME-AAN) Download(With flag) (GAME-AAN) Download All (zip-compressed, without flag) (GAME-AAN) Download All(zip-compressed, with flag) (GAME-AAN)

Update the Flag

Update Flags

From: Day 01 Hour 00 Minute 00 Flag=Value U --> Change to Flag= G Update (TZ=00:00)
 To: Day 10 Hour 23 Minute 59

インターネット



AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCI.html

Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs. Station-Item	Obs. Element	Year-Month	Plot
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode TZ= 00
	Reference Data: <input type="checkbox"/> 1:Air_Temperature_Ave <input checked="" type="checkbox"/> 2:Air_Temperature_Max <input checked="" type="checkbox"/> 3:Air_Temperature_Min <input type="checkbox"/> 4:Wind_Speed <input checked="" type="checkbox"/> 5:Relative_Humidity <input checked="" type="checkbox"/> 6:Sunshine_Duration <input type="button" value="allcheck"/> <input type="button" value="allclear"/>		

G(0) I(0) D(0) B(0) C(0) M(0) U(31)

Confirmation(edit data dialog)

[Download\(Without flag\)\(GAME-AAN\)](#)
[Download\(With flag\)\(GAME-AAN\)](#)
[Download All \(zip-compressed, without flag\)\(GAME-AAN\)](#)
[Download All\(zip-compressed, with flag\)\(GAME-AAN\)](#)

UID=Upper_Chungjudam

2:Air_Temperature_Max

3:Air_Temperature_Min

5:Relative_Humidity

6:Sunshine_Duration

Y-Axis: Real Normalized (MaxMin)

Click on the point

From: Day: 01 Hour: 00 Minute: 00

To: Day: 10 Hour: 23 Minute: 59

Flag= G ---> Flag= U

(TZ=00:00)

Update Flags [Update a value](#)

AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCI.html

Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs. Station-Item	Bonghwa-AWS
Updating I	Reference Data: <input type="checkbox"/> 1:Air <input checked="" type="checkbox"/> 3:Air_Temperature_Min <input checked="" type="checkbox"/> 6:Sunshine_Duration

Obs. Element

edit Data dialog

Flag: C

Y: 01.7

OK Cancel

Java Applet Window

Year-Month: 2003-3

Plot: Normal Mode Expert Mode

TZ: 00

G(0) I(0) D(0) E(0) C(0) M(0) U(31)

Confirmation(edit data dialog)

[Download\(Without flag\) \(GAME:AAH\)](#)
[Download\(With flag\) \(GAME:AAH\)](#)
[Download All \(zip-compressed, without flag\) \(GAME:AAH\)](#)
[Download All \(zip-compressed, with flag\) \(GAME:AAH\)](#)

	Day	Hour	Minute	Flag/Value	Change to	
From:	01	00	00	Flag= G	Change to	
To:	10	23	59	Flag= U	Update	(Tz=00:00)

Update Flags [Update a value](#)

UID=Upper_Chungjudam

2:Air_Temperature_Max fill

Overlay

3:Air_Temperature_Min fill

Overlay

5:Relative_Humidity fill

Overlay

6:Sunshine_Duration fill

Overlay

Y-Axis: Real Normalized (MaxMin)

Overlay

AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tk.iis.u-tokyo.ac.jp/QC/AWCI.html

Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs. Station-Item	Obs. Element	Year-Month
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max
 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity
 6:Sunshine_Duration

Plot: Normal Mode Expert Mode
 TZ= 00

G(0) I(0) D(0) B(0) C(0) M(0) U(31)

Confirmation(edit data dialog)

[Download\(Without flag\) \(GAME-AAN\)](#) |
 [Download\(With flag\) \(GAME-AAN\)](#) |
 [Download All\(zip-compressed, without flag\) \(GAME-AAN\)](#) |
 [Download All\(zip-compressed, with flag\) \(GAME-AAN\)](#)

UID=Upper_Chungjudam

2:Air_Temperature_Max

3:Air_Temperature_Min

5:Relative_Humidity

6:Sunshine_Duration

Y-Axis: Real Normalized (MaxMin)

Updating Data

	Day	Hour	Minute	Flag/Value	Change to
From:	01	00	00	Flag= U	<input type="button" value="Update"/> (TZ=00:00)
To:	31	23	59	Flag= G	

Update Flags [Update a value](#)

Confirmation for update

Update List(confirm)

Update	DATE-TIME	Original	-->	Modified
<input checked="" type="checkbox"/>	2003-3-17 00:00:00	value=2.7 flag=U	-->	value=0.7 flag=C

Update

ページが表示されました

AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tk.lis.u-tokyo.ac.jp/QC/AWCI.html

Station([Bonghwa-AWS](#)) > Month-Date(2003-3) >

Obs. Station-Item	Obs. Element	Year-Month
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3

Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max
 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity
 6:Sunshine_Duration

Plot: Normal Mode Expert Mode
 TZ= 00

UID=Upper_Chungjudam

2:Air_Temperature_Max

3:Air_Temperature_Min

5:Relative_Humidity

6:Sunshine_Duration

G(0) I(0) D(0) B(0) **C(1)** M(0) U(30)

Bonghwa AWS 1:Air_Temperature_Ave 2003-3

Confirmation(edit data dialog)

Download(Without flag) (GAME-AAN) Download(With flag) (GAME-AAN) Download All (zip-compressed, without flag) (GAME-AAN) Download All(zip-compressed, with flag) (GAME-AAN)

Updated Data

	Day	Hour	Minute	Flag/Value	Change to
From:	01	00	00	Flag= U	Flag= G
To:	31	23	59		Update (TZ=00:00)

Update Flags [Update a value](#)

Y-Axis: Real Normalized (MaxMin)

AWCI QC top - Microsoft Internet Explorer

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCI.html

Station(Bonghwa-AWS) > Month-Date(2003-3) >

Obs. Station-Item	Obs. Element	Year-Month	Plot
Bonghwa-AWS	Updating Data: 1:Air_Temperature_Ave	2003-3	<input checked="" type="radio"/> Normal Mode <input type="radio"/> Expert Mode TZ= 00
	Reference Data: <input type="checkbox"/> 1:Air_Temperature_Ave <input checked="" type="checkbox"/> 2:Air_Temperature_Max <input checked="" type="checkbox"/> 3:Air_Temperature_Min <input type="checkbox"/> 4:Wind_Speed <input checked="" type="checkbox"/> 5:Relative_Humidity <input checked="" type="checkbox"/> 6:Sunshine_Duration <input type="button" value="allcheck"/> <input type="button" value="allclear"/>		

UID=Upper_Chungjudam

G(0) I(0) D(0) B(0) C(0) M(0) U(31)

Confirmation(edit data dialog)

[Download\(Without flag\) \(GAME-AAN\)](#)
[Download\(With flag\) \(GAME-AAN\)](#)
[Download All \(zip-compressed, without flag\) \(GAME-AAN\)](#)
[Download All\(zip-compressed, with flag\) \(GAME-AAN\)](#)

2:Air_Temperature_Max Overlay

3:Air_Temperature_Min Overlay

5:Relative_Humidity Overlay

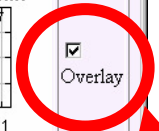
6:Sunshine_Duration Overlay

Y-Axis: Real Normalized (MaxMin)

From: Day: 01 Hour: 00 Minute: 00 Flag=Value --> Change to Flag= G Update

To: Day: 31 Hour: 23 Minute: 59 Flag= U --> Change to Flag= G Update (Tz=00:00)

Update Flags [Update a value](#)



Overlay button

3. Input Metadata Page



AWCI River Basin Metadata Management Tools - AWCI Observation Data Metadata Registration System (Japan Tone) - Mozilla Firefox

http://dias-d.tkl.iis.u-tokyo.ac.jp/awci_metadata/observation/

AWCI Observation Data Metadata Registration System (Japan Tone)

Top Page Log Out

Select Station: Please select

Display Help: Yes

Load Save Reset

Observation Data Metadata ⑥ Document Metadata ⑦ Configuration & Export Document ⑧

Please select of your uploaded data parameters are displayed or not, and your specified characteristics of each data are displayed.

Observed parameter and description required!

Observed parameter and description required!	Height(unit:m) Orientation Unit	Data interval	Calculation method	Instrument Manufacturer and Model
1	H: 0.0 O: U: unit		Select calculation method 1. Instantaneous values 2. Averaged value over the previous time 3. Accumulated value over the previous time 4. other	Manufacturer: Most Frequently Used Candidate Model: Select

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Created and Maintained by Kinutani, DIAS Project, EDITORIA, The University of Tokyo

3. Input Metadata Page



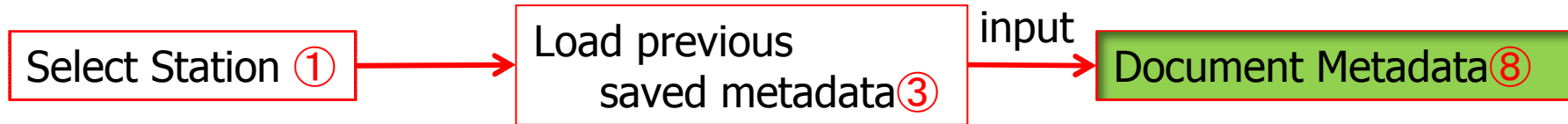
These boxes are displaying the instrument & model which is registered in this system.

These boxes are displaying the instrument & model which is most specified in the other Station on the same basin.

Input boxes

Recommendation boxes

3. Input Metadata Page



6.1 Instruments problems and Data quality issues

04:Dew_Point_Temperature Instrument
Vaisala / DMT340

Quality Control Flags	C	M	B	I	D	G	U
	0	0	0	0	0	0	0

As there were noise upward and downward shortwave radiation in the night-time, the data night time was replaced in the value 0.00 and flagged I

05:Relative_Humidity Instrument
Campbell / HMP45C

Quality Control Flags	C	M	B	I	D	G	U
	0	0	0	0	0	0	0

Precipitation was measured by tipping bucket type gauge. In the Amdo area, solid precipitation, such as hail, sometimes prevails even in the warm season. Therefore, the flag of precipitation data are D

Quality Control results of this parameter

7.0 REFERENCE REQUIREMENTS

None

8.0 REFERENCES

No.1 ✖

Authors	H. Ishikawa
Quotation Year (YYYY)	2001
Title	What has been known and what has not in GAME/Tibet BL observation
Bibliographic Details	Proceedings of the Fifth International Study Conference on GEVEX in Asia and GAME, 691.

Information of the quoters who use this observation dataset

3. Input Metadata Page

Select Station ①

Load previous saved metadata ③

Save, Confirmation & Export Document ⑧

AWCI River Basin Metadata Management Tools - AWCI Observation Data Metadata Registration System (Ja...)

http://dias-d.tkl.iis.u-tokyo.ac.jp/awci_metadata/observation/

2.3 Sample Database Data Record

date time(UTC), Air_Temperature, Air_Temperature_F, Wind_Speed, Wind_Speed_F, Wind_Direction, Wind_Direction_F, Precipitation_F, Sunshine_Duration, Sunshine_Duration_F, Streamflow, Streamflow_F

2002/12/31 16:00,2.500000,G,2.000000,G,337.500000,G,0.000000,G,0.000000,G,51.800000,G

2.4 Data Format

Parameter	Description	Height	Orientation	Unit
03:Air_Temperature	Air Temperature			degC
07:Wind_Speed	Wind Speed			m/s
08:Wind_Direction	Wind Direction : (*360/16)			deg
11:Precipitation	Precipitation			mm/1hr
26:Sunshine_Duration	Sunshine Duration			h

3.0 DATA COLLECTION AND PROESSING

3.1 Description of data collection

3.2 Description of derived parameters and processing techniques used

Raw data was uploaded by using AWCI Upload IF accompany with some basic metadata. (Data upload process : 2009110410525706, 2009011416563706 This station also provides hydrological data, Discharge gauge)

4.0 QUALITY CONTROL PROCEDURES

These dataset was collected and quality controlled under the frame work of AWCI.

AWCI River Basin Metadata Management Tools - AWCI Observation Data Metadata Registration System (Ja...)

http://dias-d.tkl.iis.u-tokyo.ac.jp/awci_metadata/observation/

5.0 GAP FILLING PROCEDURES

No Gap Filling procedure was applied.

6.0 DATA REMARKS

6.1 Instrument problems and Data quality issues

Instrument parameter / Instrument name	Problems

7.0 REFERENCE REQUIREMENTS

Observed data

8.0 REFERENCES

No.1	
Authors	
Quotation Year (YYYY)	1900
Title	
Bibliographic Details	

9.0 Missing Data Periods

3. Input Metadata Page

Select Station ①

Load previous saved metadata ③

Save, Confirmation & Export Document ⑧

Document generation Status - Mozilla Firefox

http://dias-d.tk.iis.u-tokyo.ac.jp/awci_metadata/observation/

AWCI Metadata Document

Country :Japan-Tama River Basin :Tama-river Station : UT_Farm5

Generated documents are obtained when you click the following links.

HTML	
PDF	
RTF (MS Word)	
Metadata XML	

Click

Close this window

AWCI Dataset Documentation - Mozilla Firefox

http://dias-d.tk.iis.u-tokyo.ac.jp/AWCI/metadata/Observation

AWCI Dataset Documentation

Country : Japan-Tama River Basin : Tama-river Station : UT_Farm5

8th March 2010

TITLE

AWCI_Tama-river_UT_Farm5_200301 01_20041231 .ext.txt

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DATE OF THIS DOCUMENT

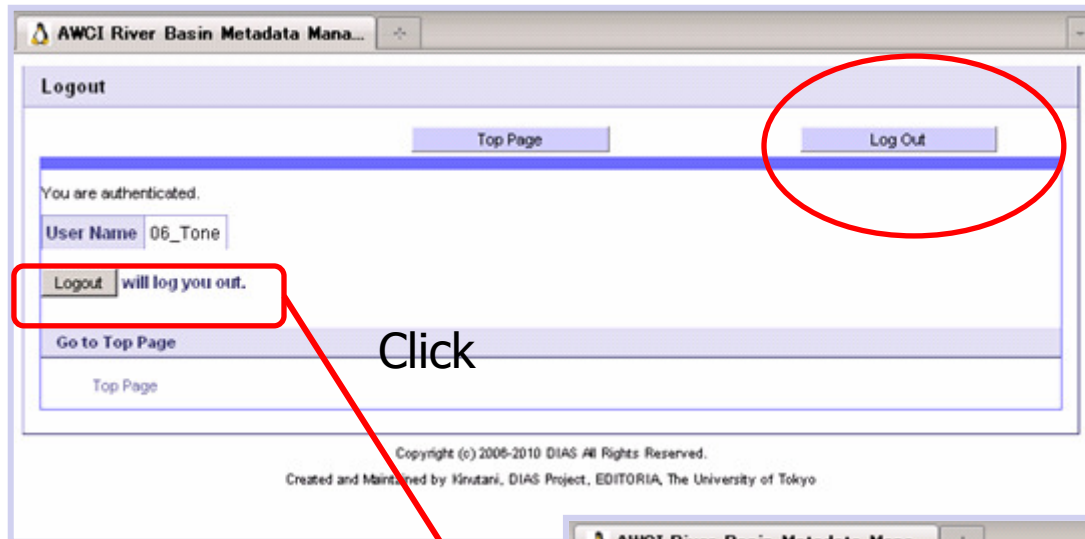
8th March 2010

1. DATASET OVERVIEW

1.1 Introduction

To clarify the energy and water cycle in the Tibetan Plateau, it is important to understand the characteristics

Log Out Page



Click

