In-situ Data Management System for AWCI

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

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*=IIS, **=Civil Eng.

The University of Tokyo

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 for periods..

Check ...

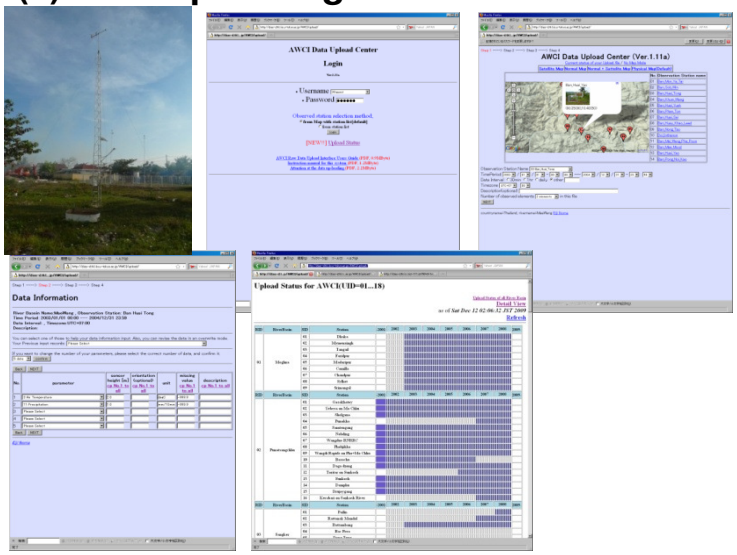
Format ...

And so on ...

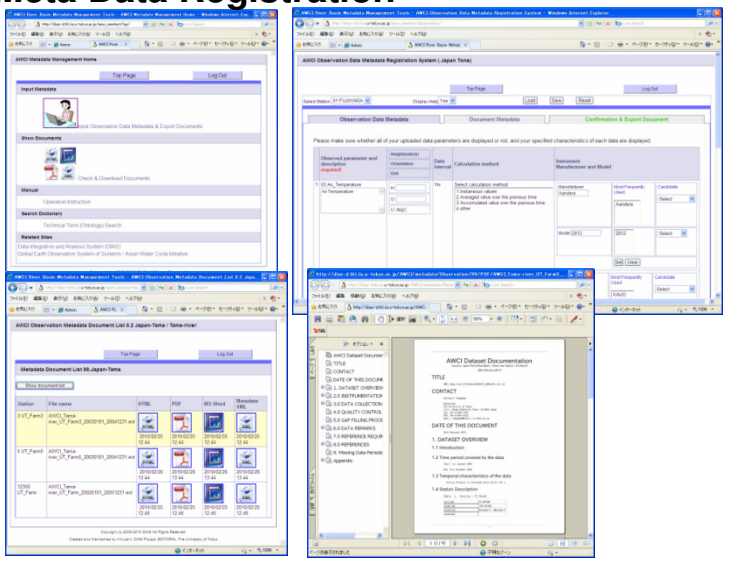
A a lot of Time and Energy to do this.

4 Components of In-situ data management

(1) Data Uploading

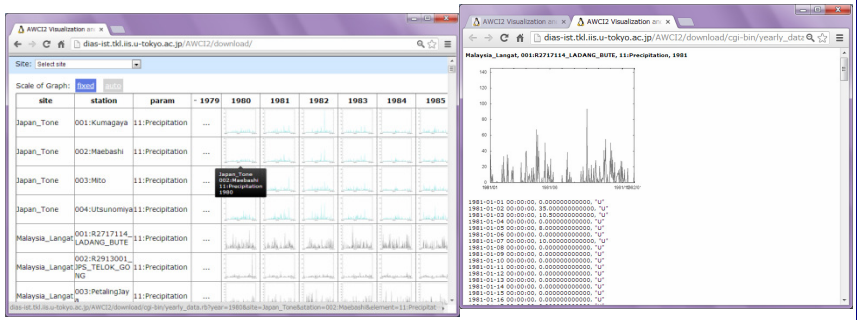


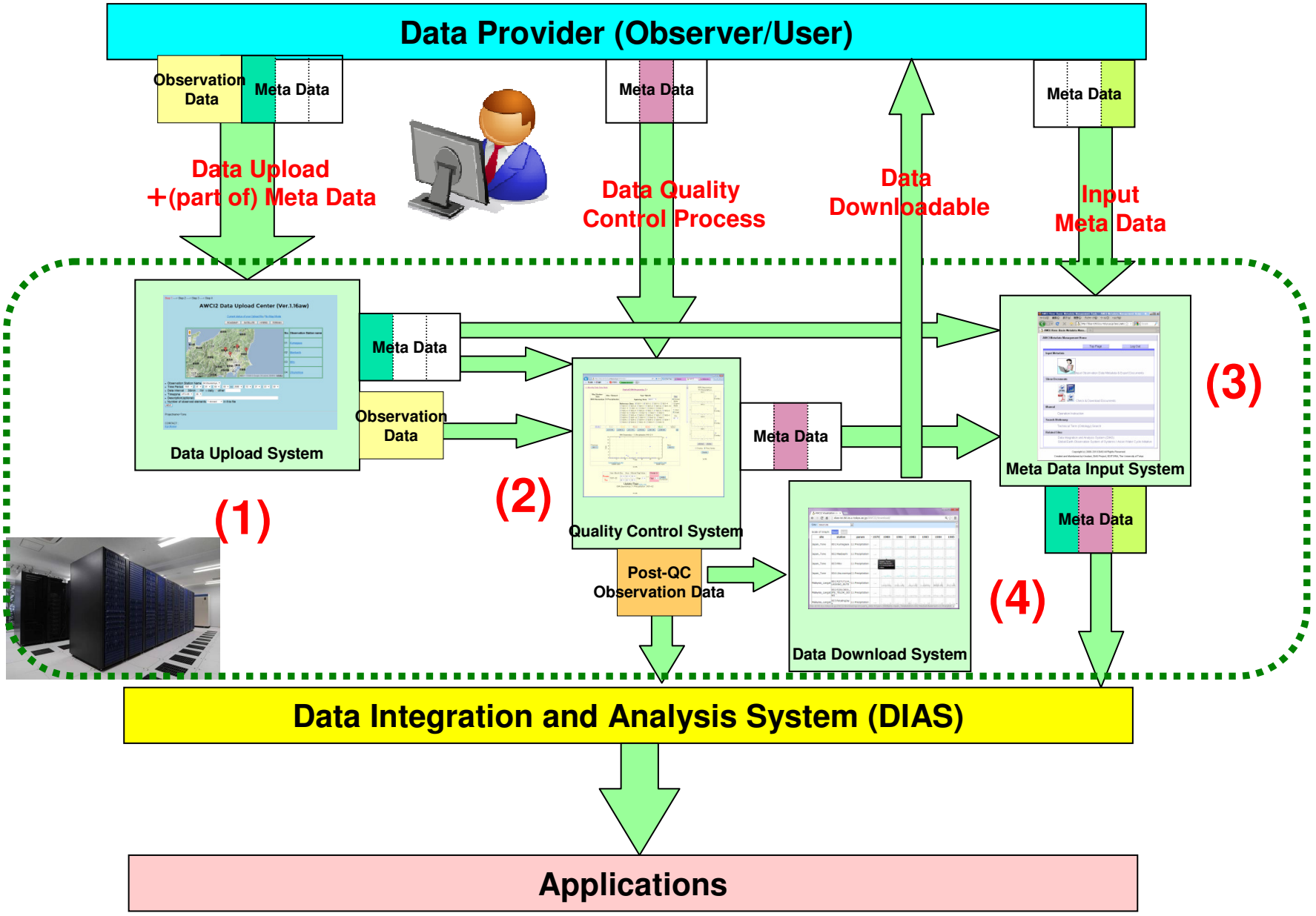
(3) Meta Data Registration

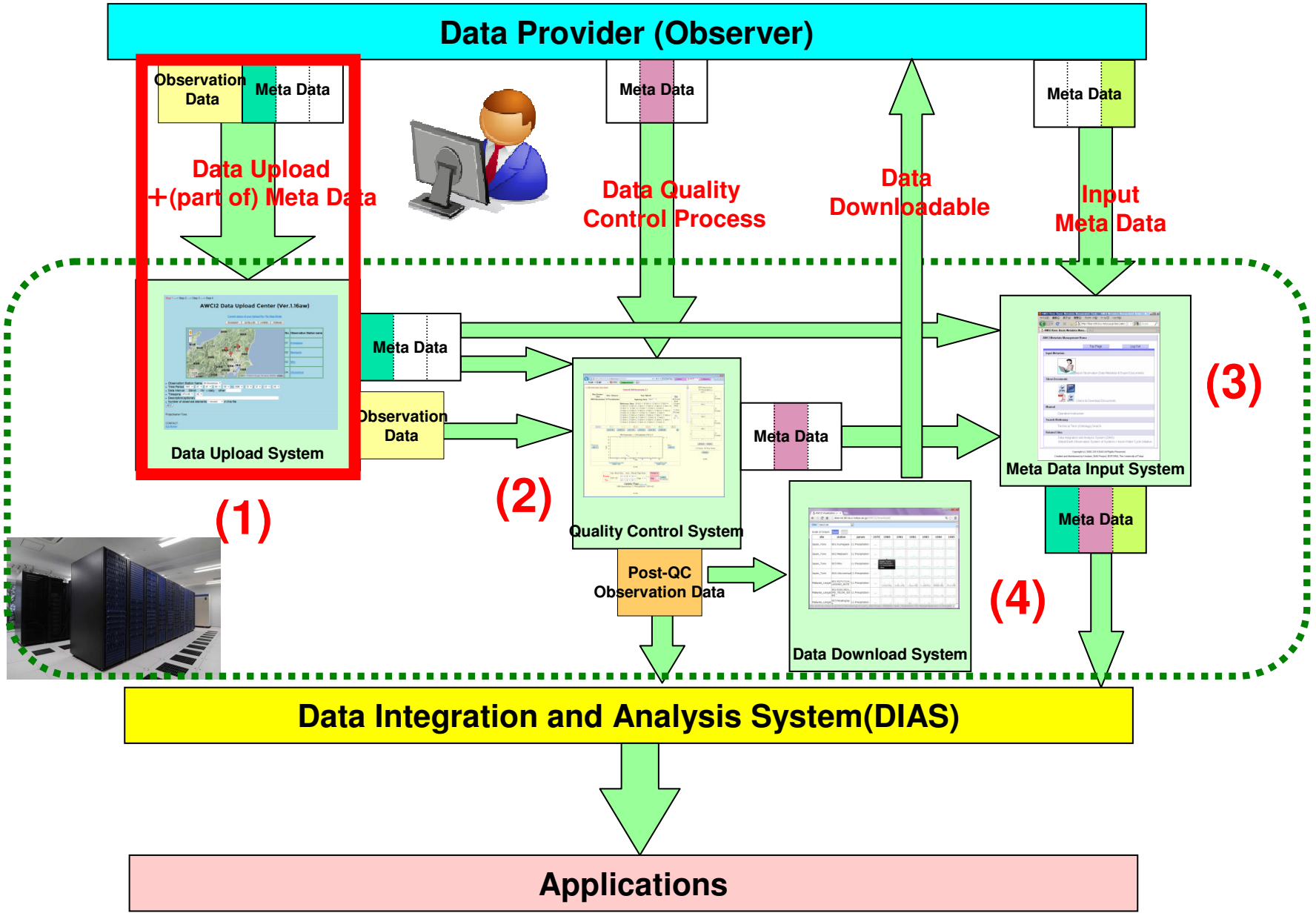


(2) Quality Controlling

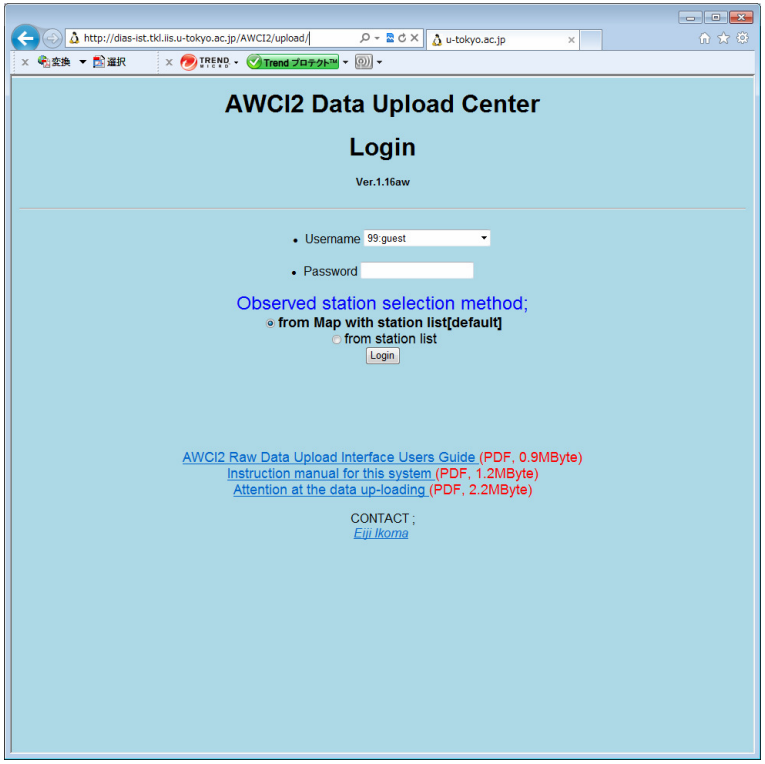
(4) Data Downloading




Data Provider (Observer/User)
Observation Data
Meta Data
Data Upload
+(part of) Meta Data
Meta Data
Data Quality
Control Process
Data
Downloadable
Meta Data
Input
Meta Data
Data Upload System
Meta Data
Observation Data
(1)
Quality Control System
(2)
Meta Data
Meta Data Input System
(3)
Meta Data
Post-QC
Observation Data
Data Download System
(4)
Data Integration and Analysis System (DIAS)
Applications

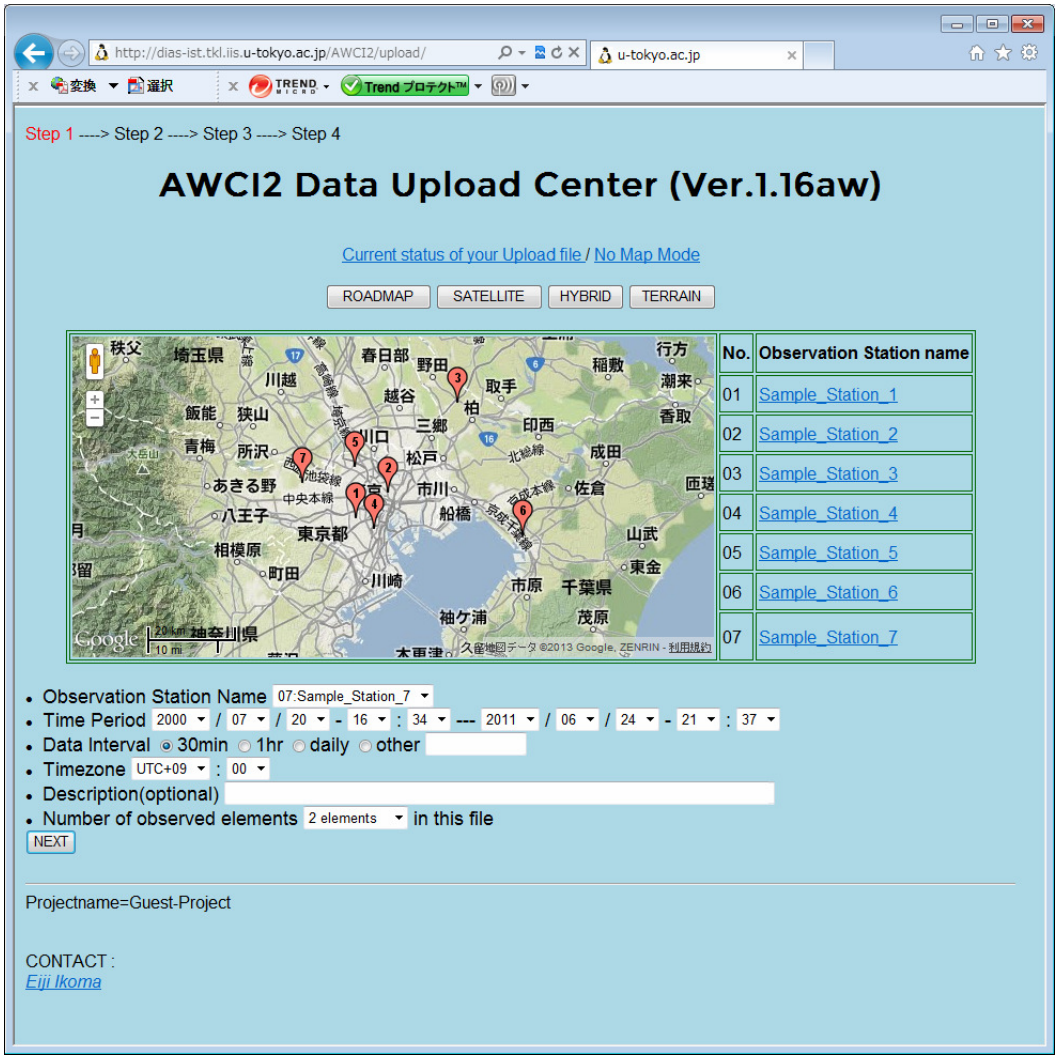

Data Provider (Observer)
Observation Data
Meta Data
Data Upload
+(part of) Meta Data
Data Upload System
Meta Data
Data Quality Control Process
Data Downloadable
Meta Data
Input Meta Data
Meta Data
Observation Data
Quality Control System
Meta Data
Meta Data Input System
(3)
(1)
(2)
Post-QC Observation Data
Data Download System
(4)
Meta Data
Data Integration and Analysis System(DIAS)
Applications

Login Page



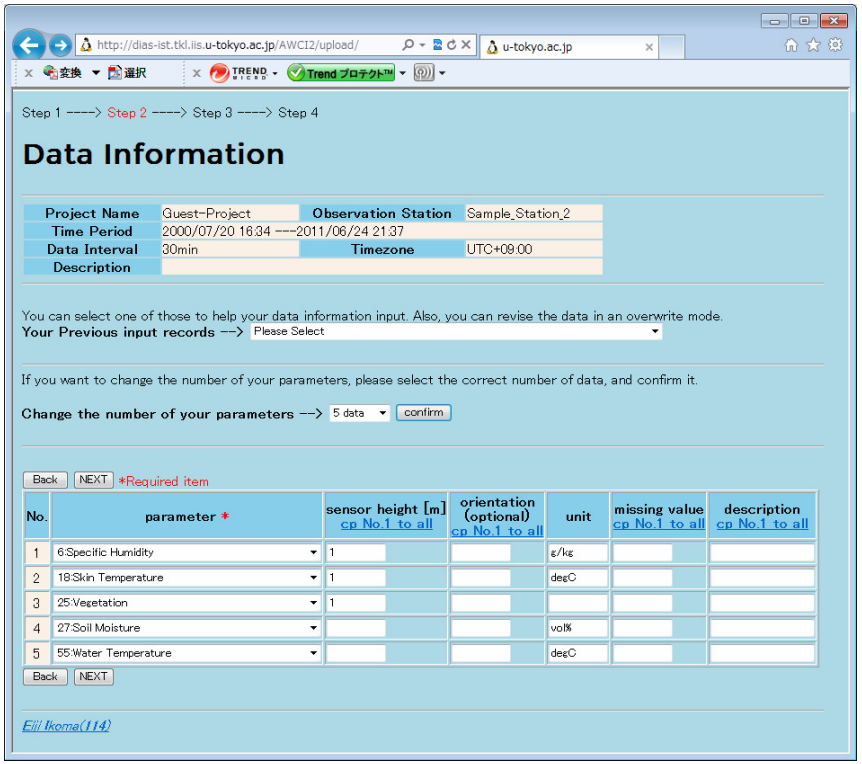
- Username and Password are required.
- Each observation site manager has an own (unique) username and password.
- Link (Instruction Manual, Attention, etc…) and Information

STEP1



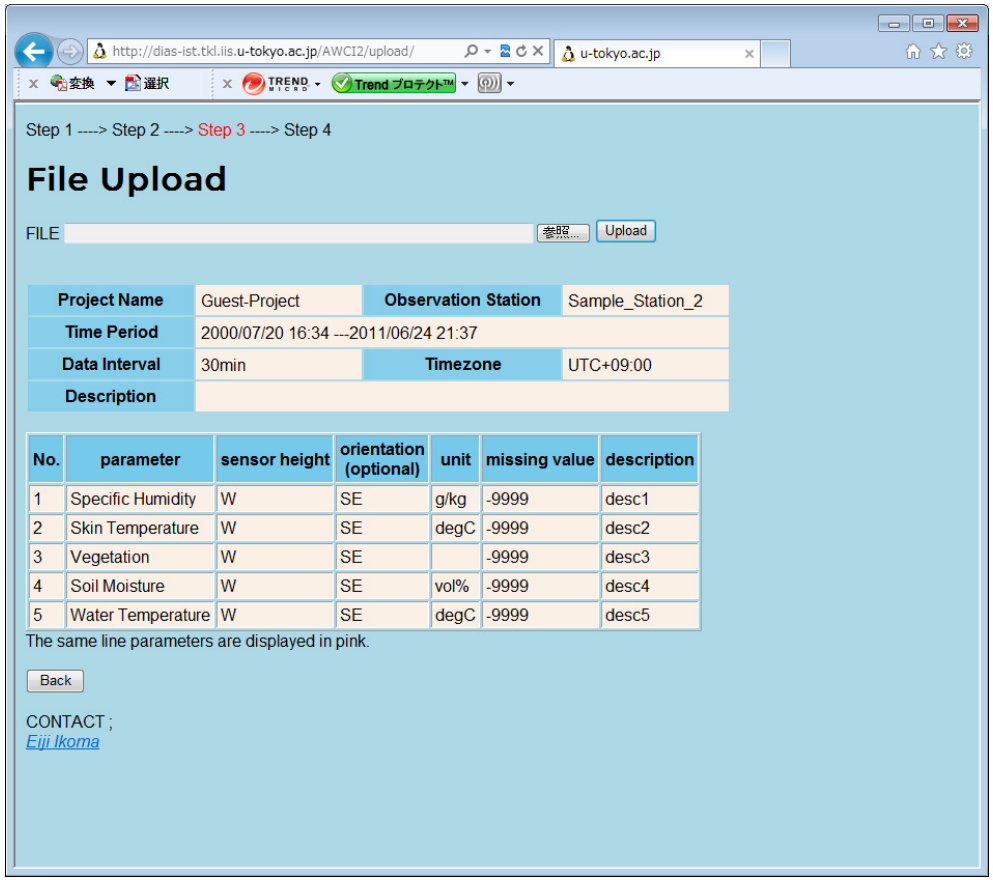
- Observation Point (Map/List)
- Time Period
- Data Interval
- Time zone
- Description (optional)
- Num. of observed elements

STEP2



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

STEP3



- 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

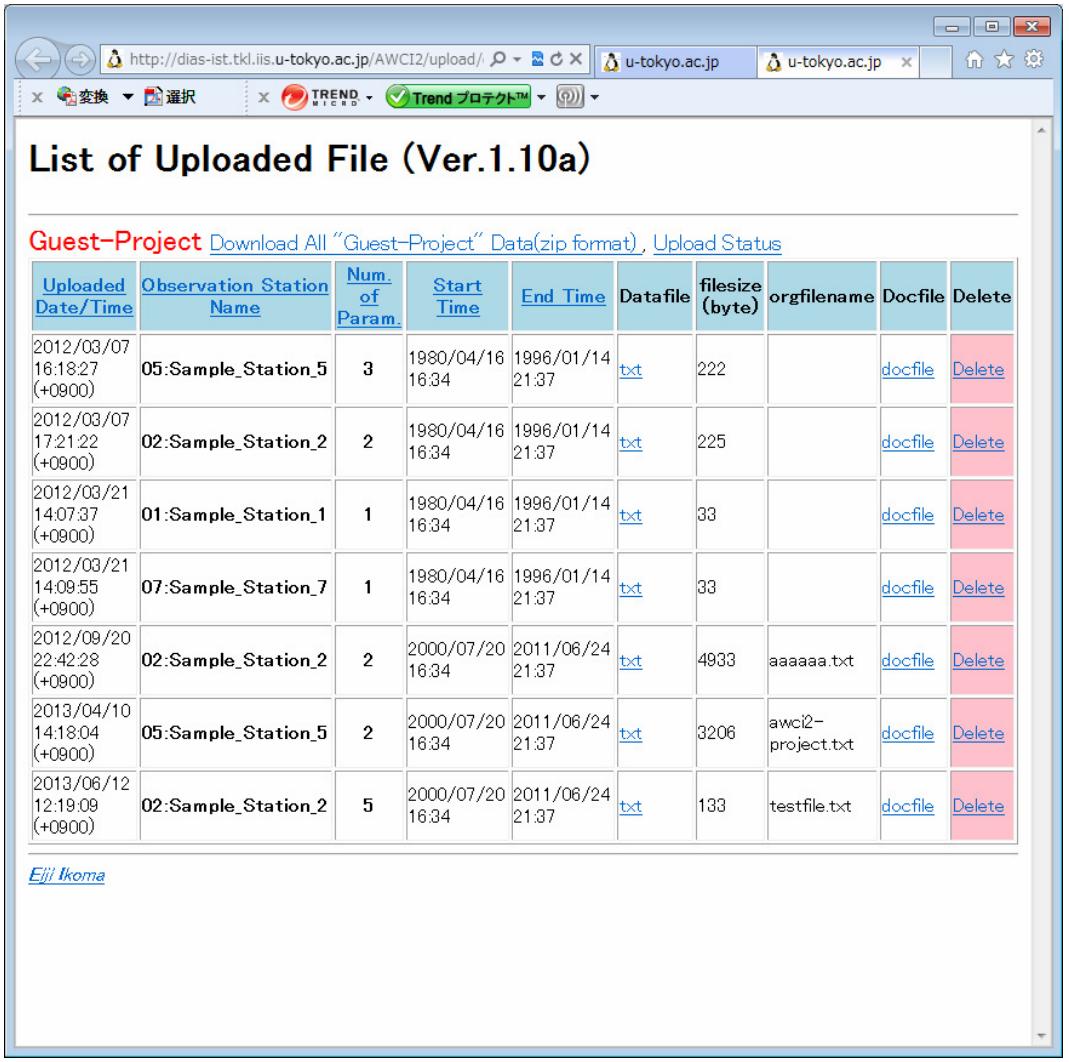
Your e-mail address: tamagawa@hydra.t.u-tokyo.ac.jp

- 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



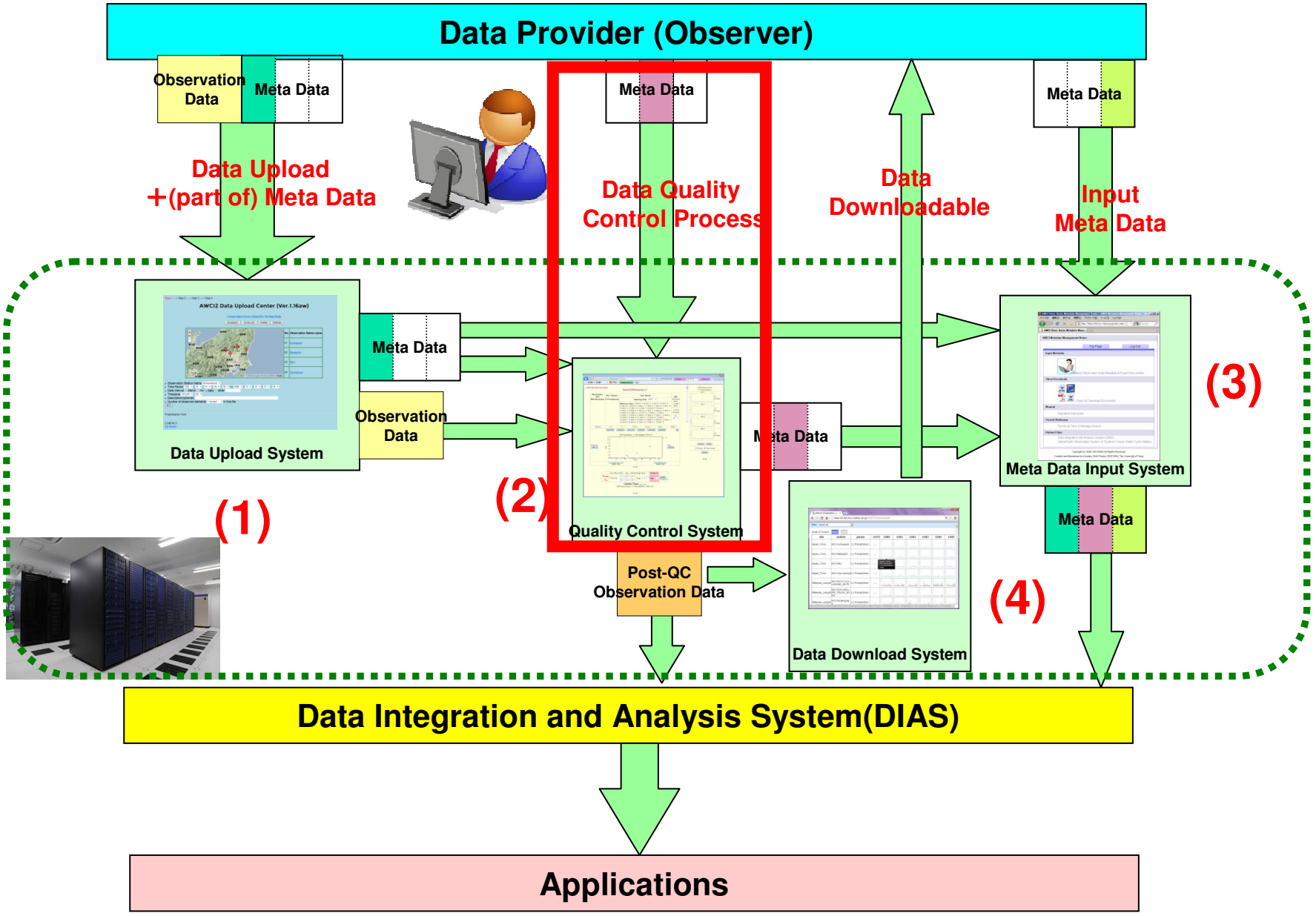
List of Uploaded File (Ver.1.10a)

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

Eiji Ikoma

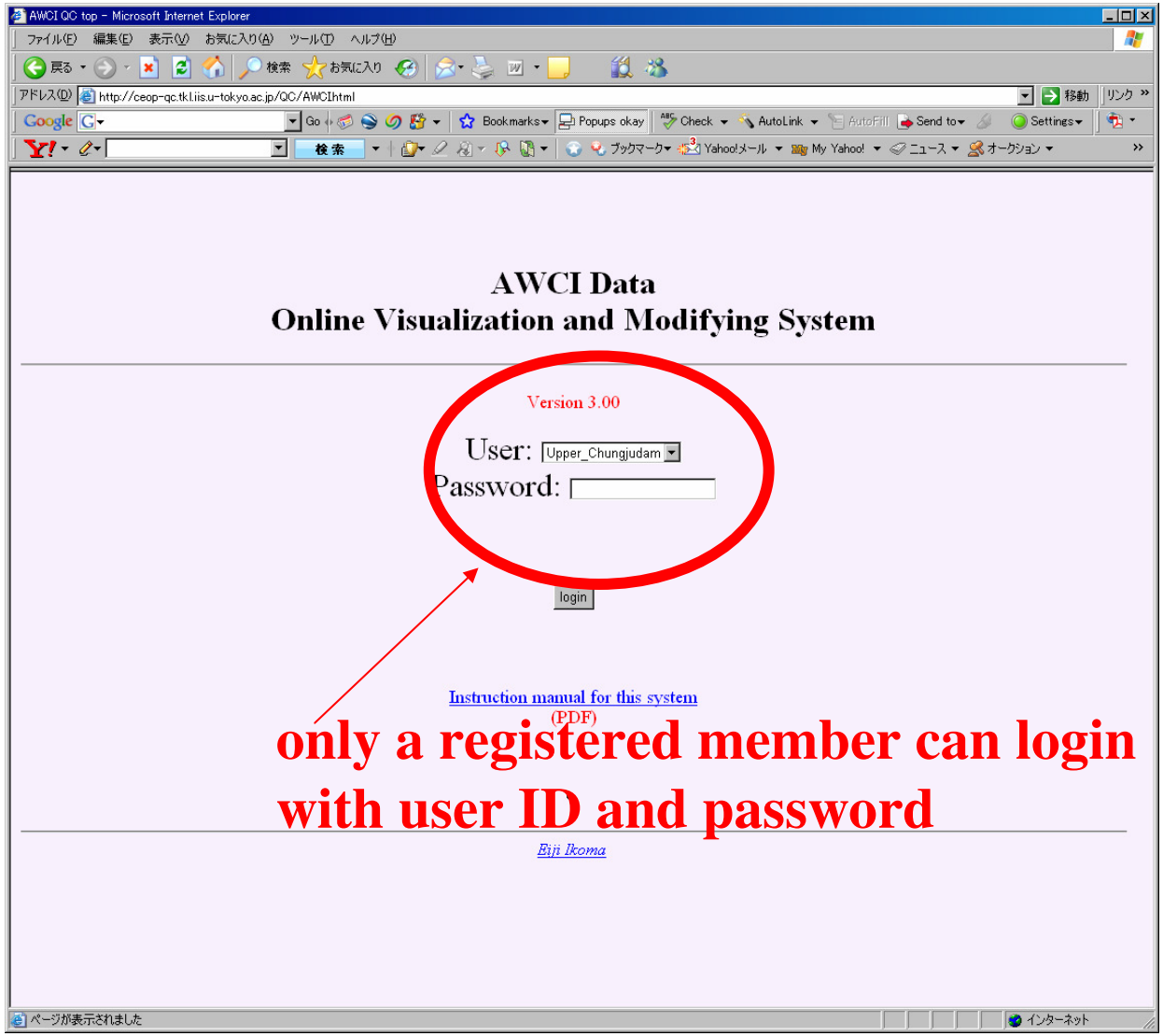
- Download each/all data files
- Check metadata
- Delete uploaded data

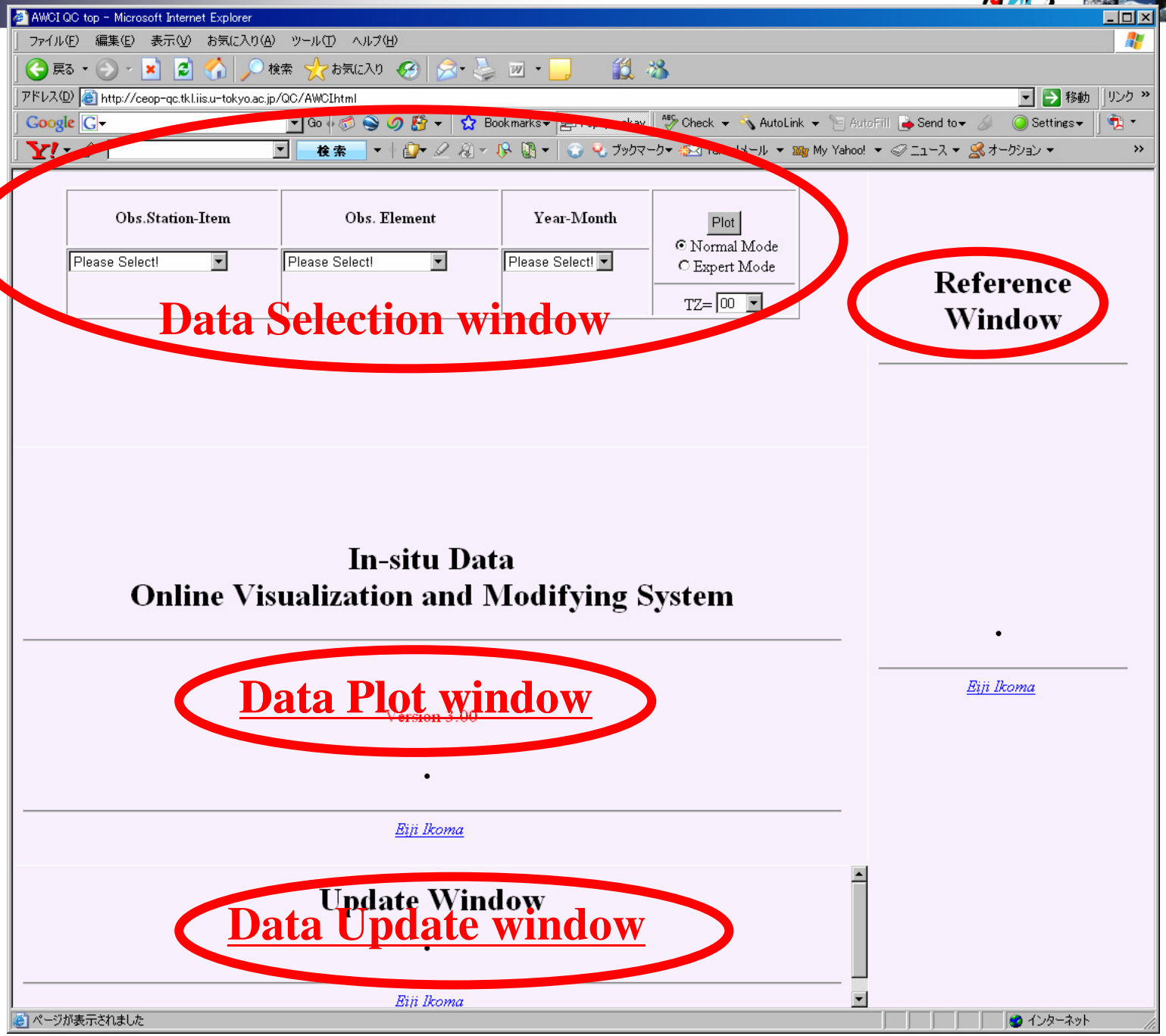

Data Provider (Observer)
Observation Data
Meta Data
Data Upload
+(part of) Meta Data
Meta Data
Data Quality Control Process
Data Downloadable
Meta Data
Input Meta Data
AWCI2 Data Upload Center (Ver.1.16aw)
Data Upload System
Meta Data
Observation Data
(1)
(2)
Quality Control System
Meta Data
Post-QC Observation Data
Data Download System
(4)
Meta Data Input System
(3)
Meta Data
Data Integration and Analysis System(DIAS)
Applications

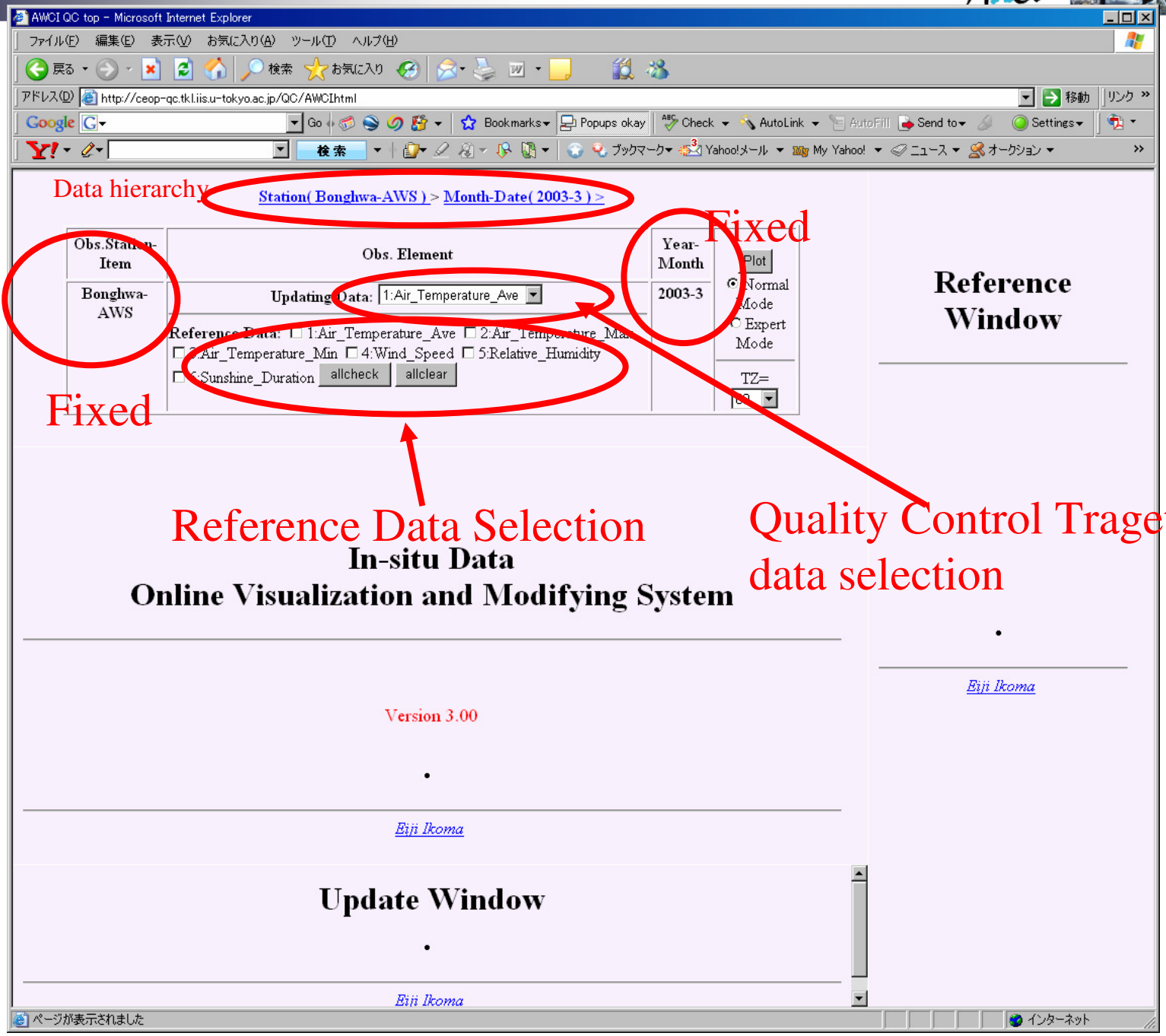
Our Data Quality Control (QC) System

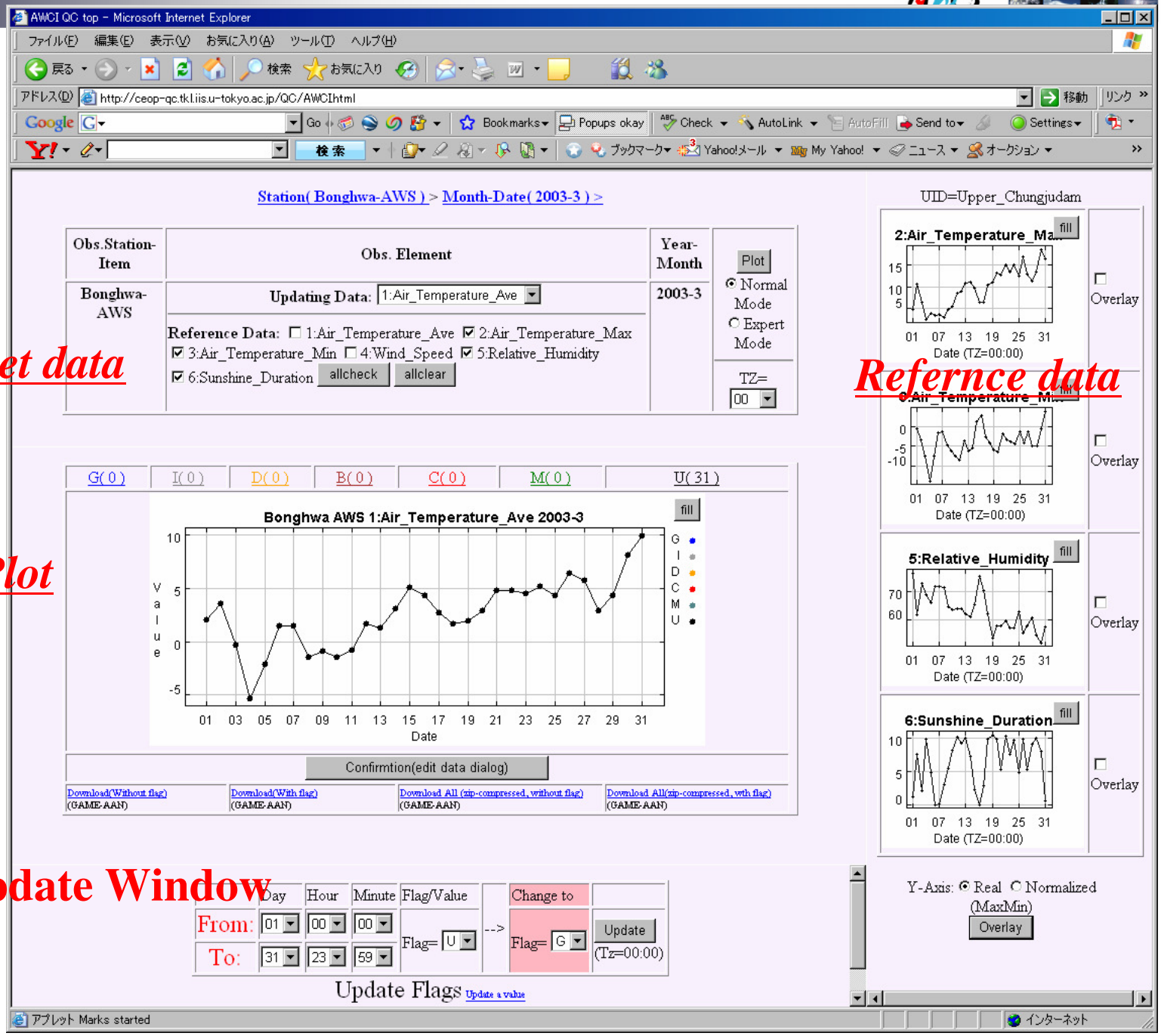
- First version of the QC system was prototyped in 2002.
- Ver 3.05a is now running for AWCI2 (2012-)
- Web-based user interface, easy-to-use and light operation
- Post-QC Data Download, Progress management system is also available

AWCI Data-QC Toppage




AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
Obs.Station-Item
Obs. Element
Year-Month
Plot
Normal Mode
Expert Mode
Please Select!
Please Select!
Please Select!
TZ= 00
Data Selection window
Reference Window
In-situ Data
Online Visualization and Modifying System
Data Plot window
Version 3.00
Eiji Ikoma
Update Window
Data Update window
Eiji Ikoma
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
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
Data hierarchy
Station(Bonghwa-AWS) > Month-Date(2003-3) >
Fixed
Obs.Station-Item
Obs. Element
Year-Month
Bonghwa-AWS
Updating Data: 1:Air_Temperature_Ave
2003-3
Plot
Normal Mode
Expert Mode
Reference Data:
3:Air_Temperature_Min
4:Wind_Speed
5:Relative_Humidity
6:Sunshine_Duration
allcheck
allclear
TZ=
Fixed
Reference Window
Reference Data Selection
Quality Control Traget data selection
In-situ Data
Online Visualization and Modifying System
Version 3.00
Eiji Ikoma
Update Window
Eiji Ikoma
Eiji Ikoma
ページが表示されました
インターネット

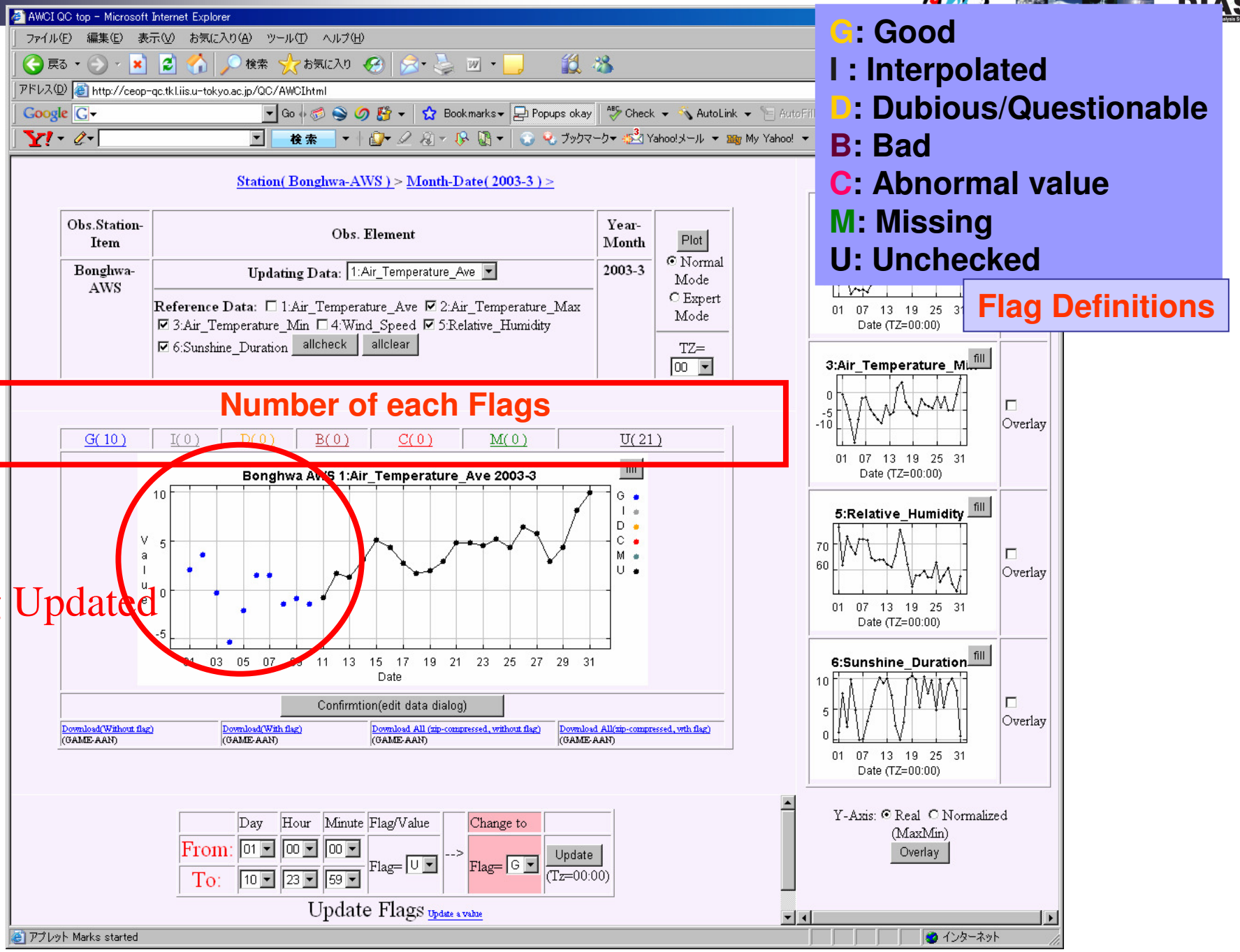


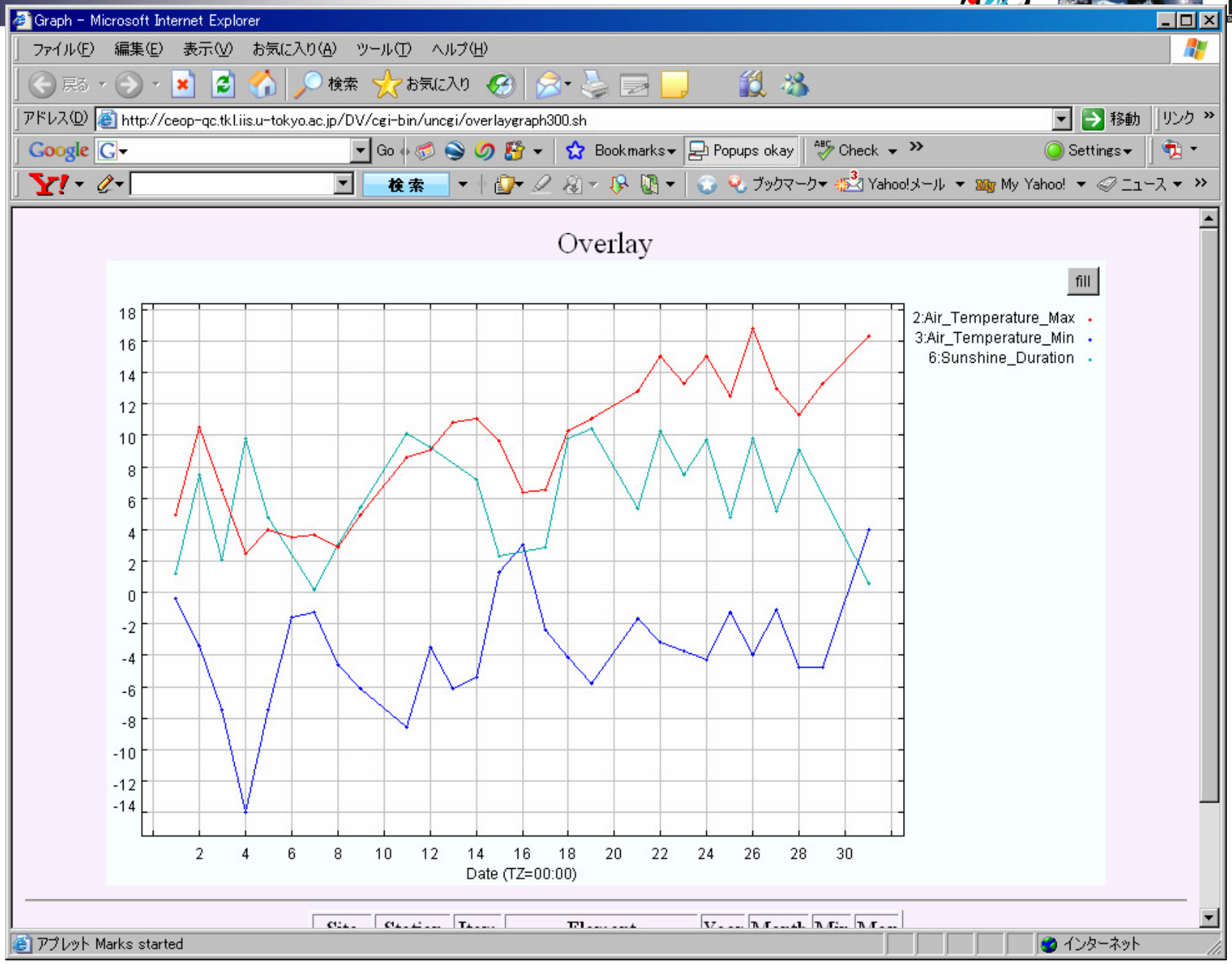
QC Target data

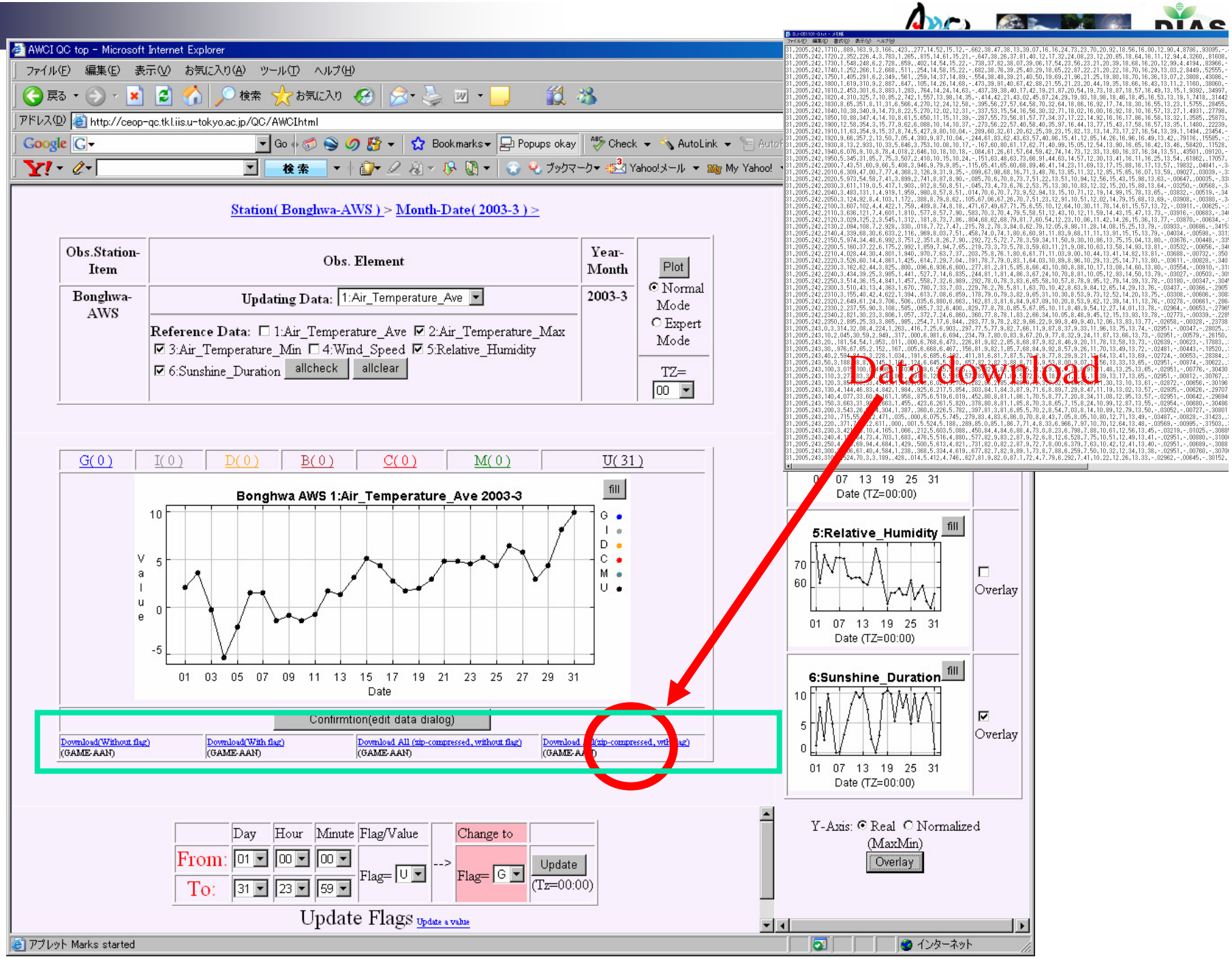
Refernce data

Data Plot

Flag Update Window


AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
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
allcheck
allclear
Plot
Normal Mode
Expert Mode
TZ=
G: Good
I : Interpolated
D: Dubious/Questionable
B: Bad
C: Abnormal value
M: Missing
U: Unchecked
Flag Definitions
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
Value
Date
Flag Updated data
3:Air_Temperature_Max
5:Relative_Humidity
6:Sunshine_Duration
fill
Overlay
Date (TZ=00:00)
Confirmtion(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)
Day
Hour
Minute
Flag/Value
Change to
From:
To:
Flag= U
Flag= G
Update
(Tz=00:00)
Update Flags
Update a value
Y-Axis: Real Normalized (MaxMin)
Overlay


Graph - Microsoft Internet Explorer
ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)
検索 お気に入り
アドレス(D) http://ceop-qc.tkl.iis.u-tokyo.ac.jp/DV/cgi-bin/uncgi/overlaygraph300.sh
移動 リンク
Google Go Bookmarks Popups okay Check Settings
検索 ブックマーク Yahoo!メール My Yahoo! ニュース
Overlay
fill
2:Air_Temperature_Max
3:Air_Temperature_Min
6:Sunshine_Duration
18 16 14 12 10 8 6 4 2 0 -2 -4 -6 -8 -10 -12 -14
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
Date (TZ=00:00)
アプレット Marks started
インターネット

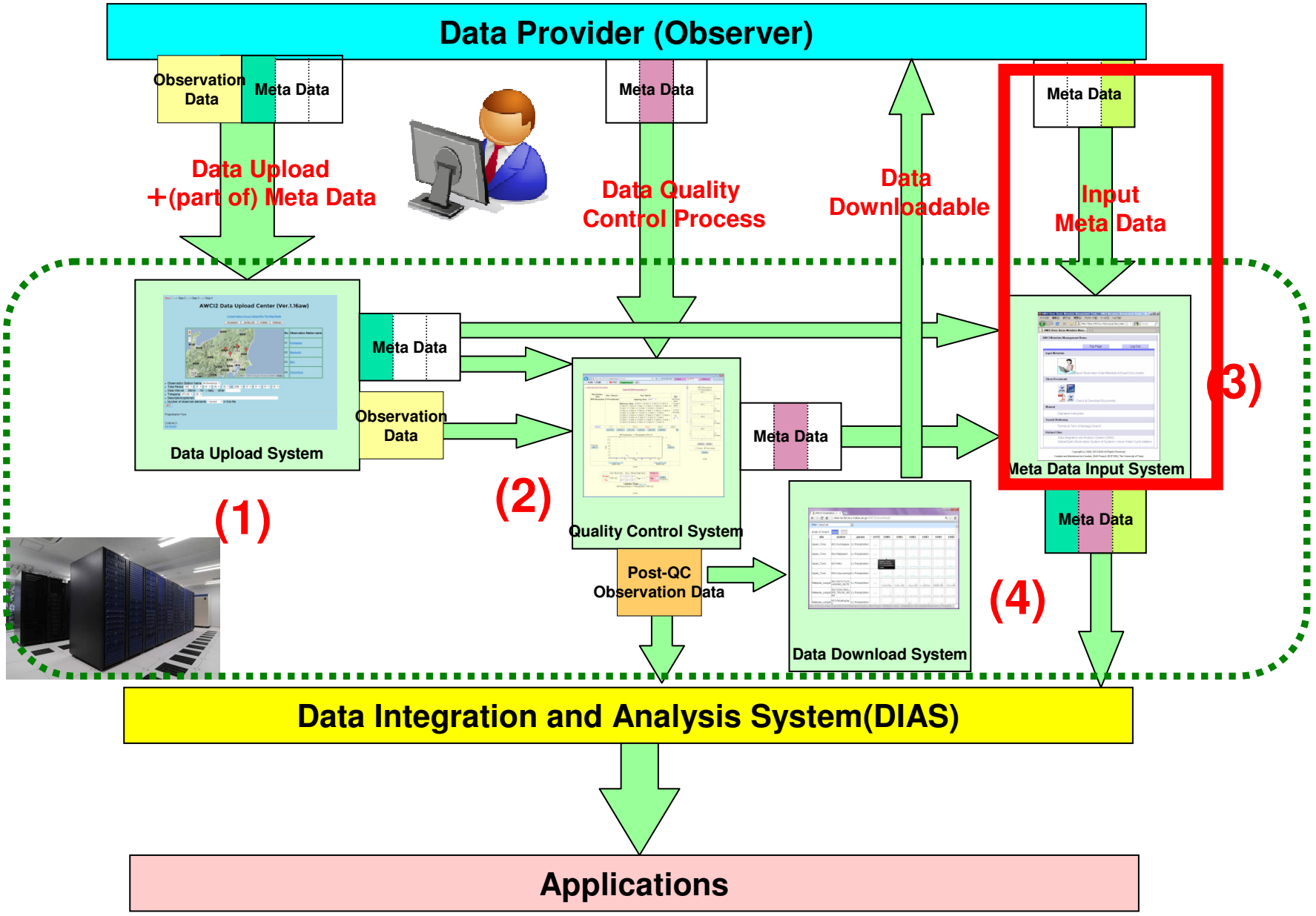

AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
Station(Bonghwa-AWS) > Month-Date(2003-3) >
Obs.Station-Item
Obs. Element
Year-Month
Bonghwa-AWS
Updating Data: 1:Air_Temperature_Ave
2003-3
Plot
Normal Mode
Expert Mode
Reference Data: 1:Air_Temperature_Ave 2:Air_Temperature_Max 3:Air_Temperature_Min 4:Wind_Speed 5:Relative_Humidity 6:Sunshine_Duration
allcheck
allclear
TZ=
00
G(0) I(0) D(0) B(0) C(0) M(0) U(31)
Bonghwa AWS 1:Air_Temperature_Ave 2003-3
fill
Value
Date
Confirmtion(edit data dialog)
Download(Without flag) (GAME-AAN)
Download(With flag) (GAME-AAN)
Download All (zip-compressed, without flag) (GAME-AAN)
5:Relative_Humidity
6:Sunshine_Duration
Overlay
Date (TZ=00:00)
Y-Axis: Real Normalized
(MaxMin)
Overlay
Day Hour Minute Flag/Value
Change to
From: 01 00 00 Flag= U --> Flag= G Update
To: 31 23 59 (Tz=00:00)
Update Flags Update a value
Data download
アプレット Marks started
インターネット

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

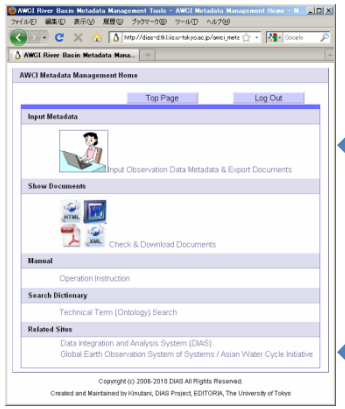
http://www.eol.ucar.edu/projects/ceop/dm/documents/refdata_report/data_flag_definitions.html


Data Provider (Observer)
Observation Data
Meta Data
Data Upload
+(part of) Meta Data
Meta Data
Data Quality
Control Process
Data
Downloadable
Meta Data
Input
Meta Data
Data Upload System
Meta Data
Observation Data
Quality Control System
Meta Data
Meta Data Input System
(3)
(1)
(2)
Post-QC
Observation Data
Data Download System
(4)
Meta Data
Data Integration and Analysis System(DIAS)
Applications

Role of Metadata & Dataset Documents

Data provider

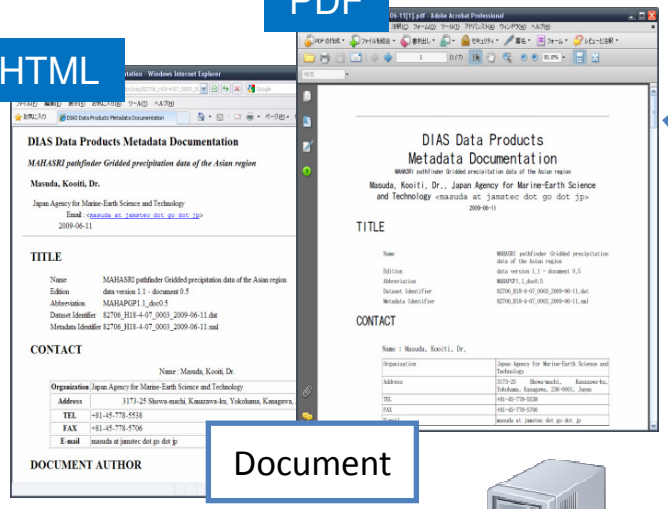
Manual input



Publishing

HTML

PDF



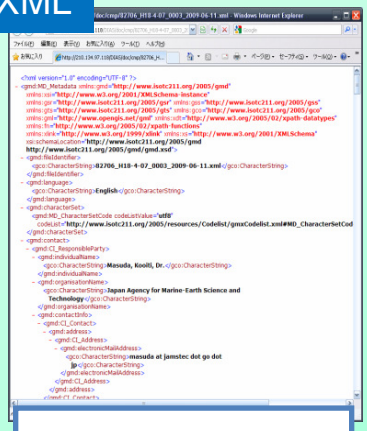
Document

User

DIAS Core System
Metadata Management

API

XML



Metadata

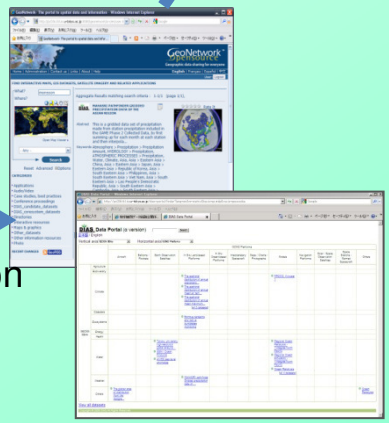
Storing to database

Automatic extraction

Quality Control

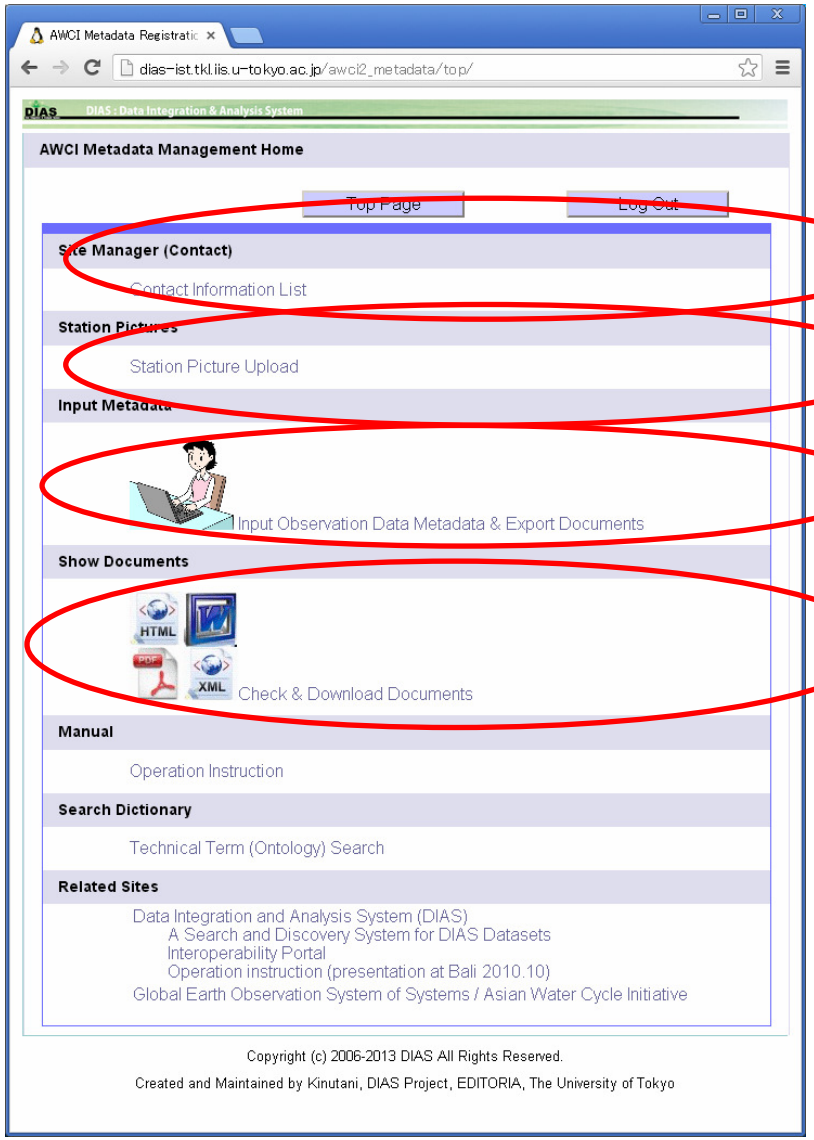
Metadata registration interface

Application



Search & browse Interface

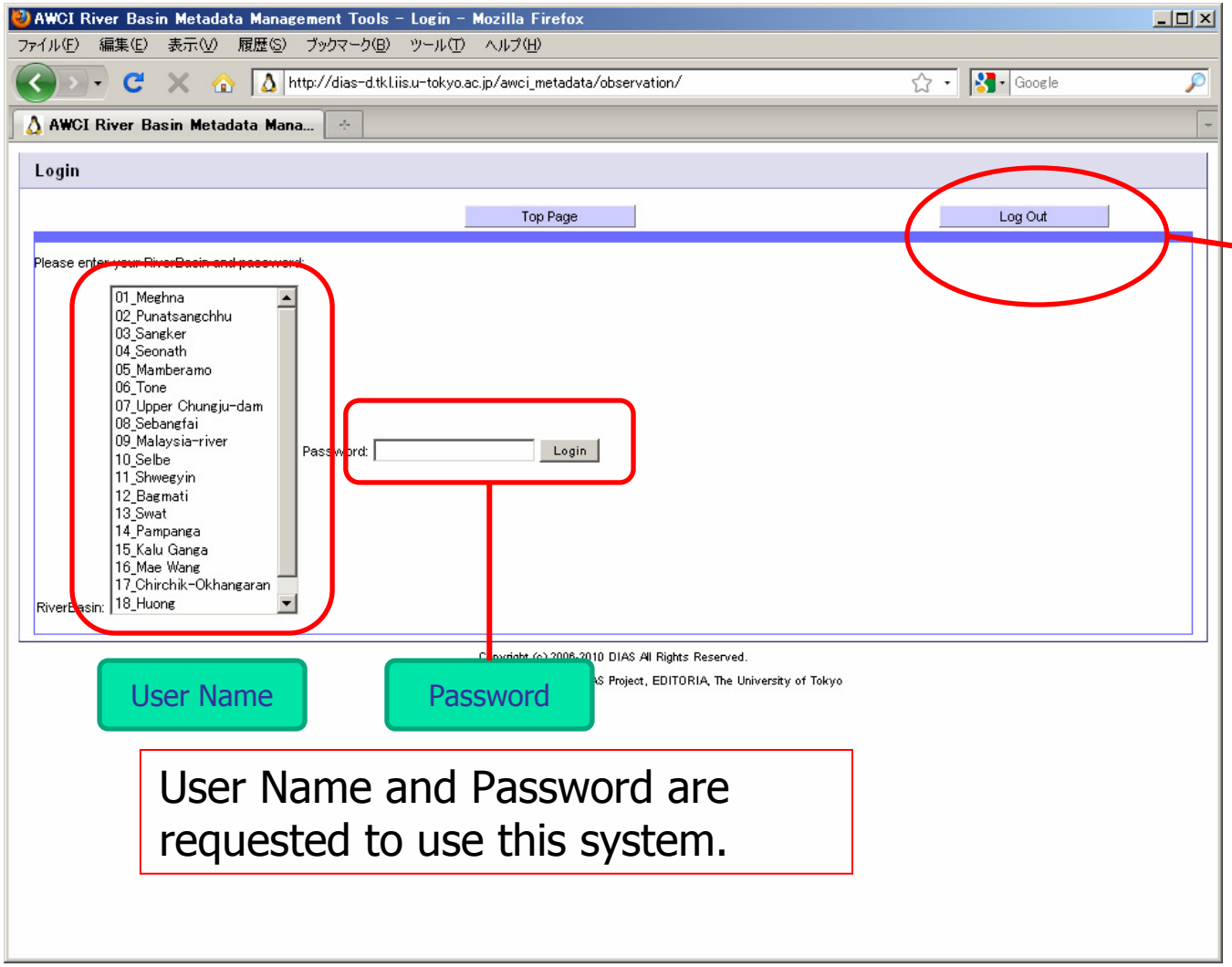
Top Page http://dias-ist.tkl.iis.u-tokyo.ac.jp/awci2_metadata/



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.

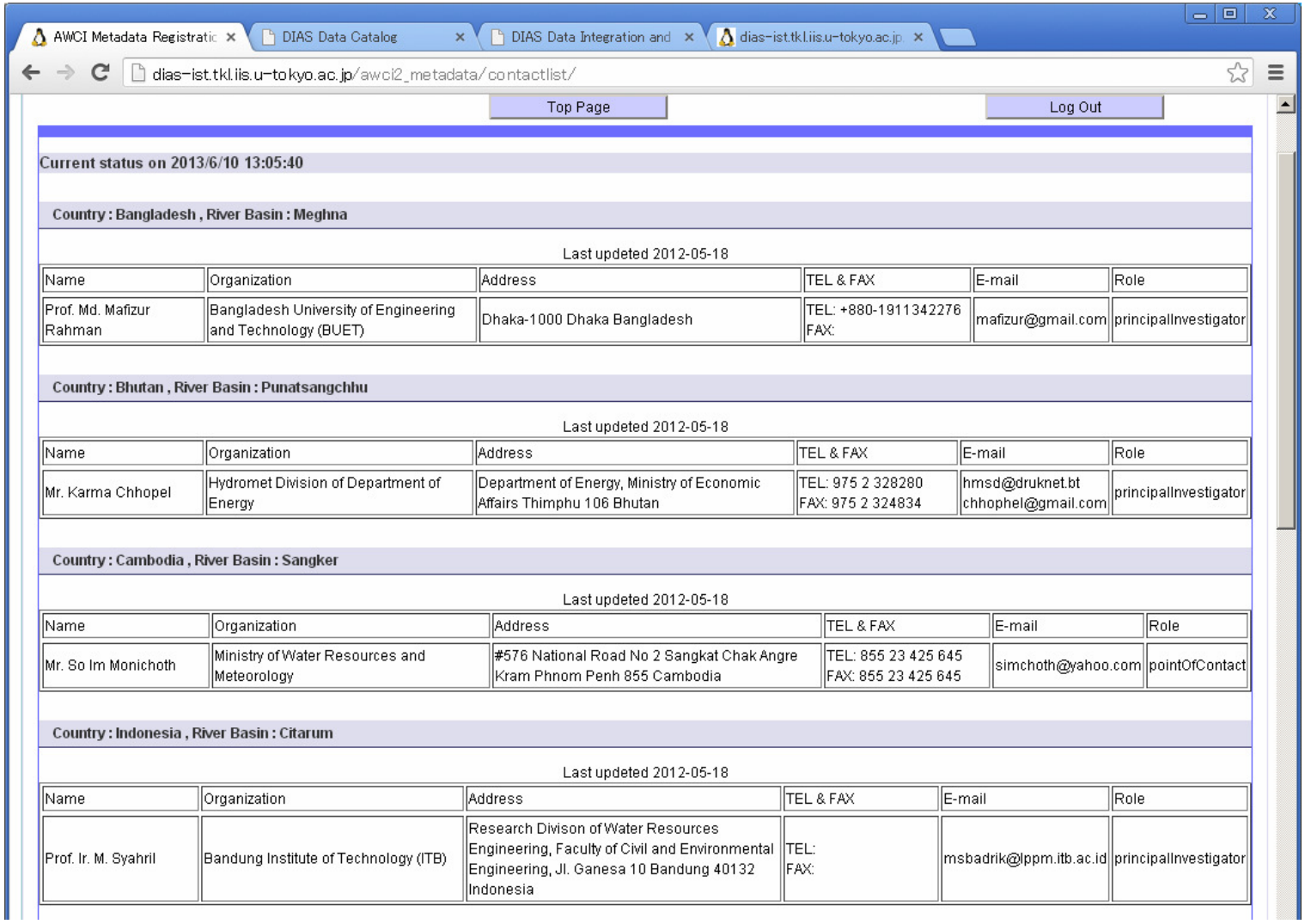
Login Page



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

1. Contact Information List

- Please make sure your contact information.



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

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 updeted 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	principalInvestigator

Country : Bhutan , River Basin : Punatsangchhu

Last updeted 2012-05-18

Name	Organization	Address	TEL & FAX	E-mail	Role
Mr. Karma Chhopel	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 chhophel@gmail.com	principalInvestigator

Country : Cambodia , River Basin : Sangker

Last updeted 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

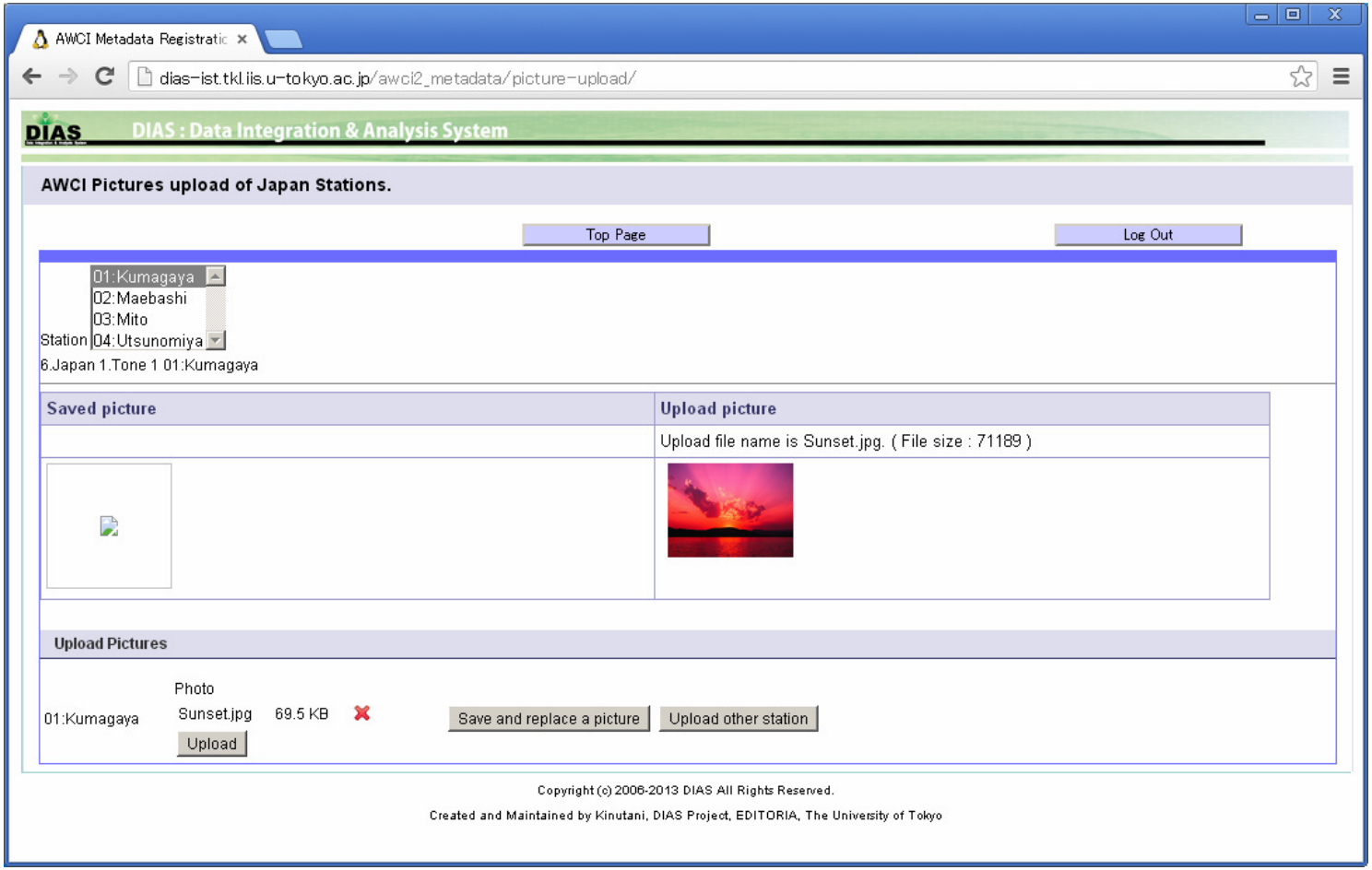
Country : Indonesia , River Basin : Citarum

Last updeted 2012-05-18

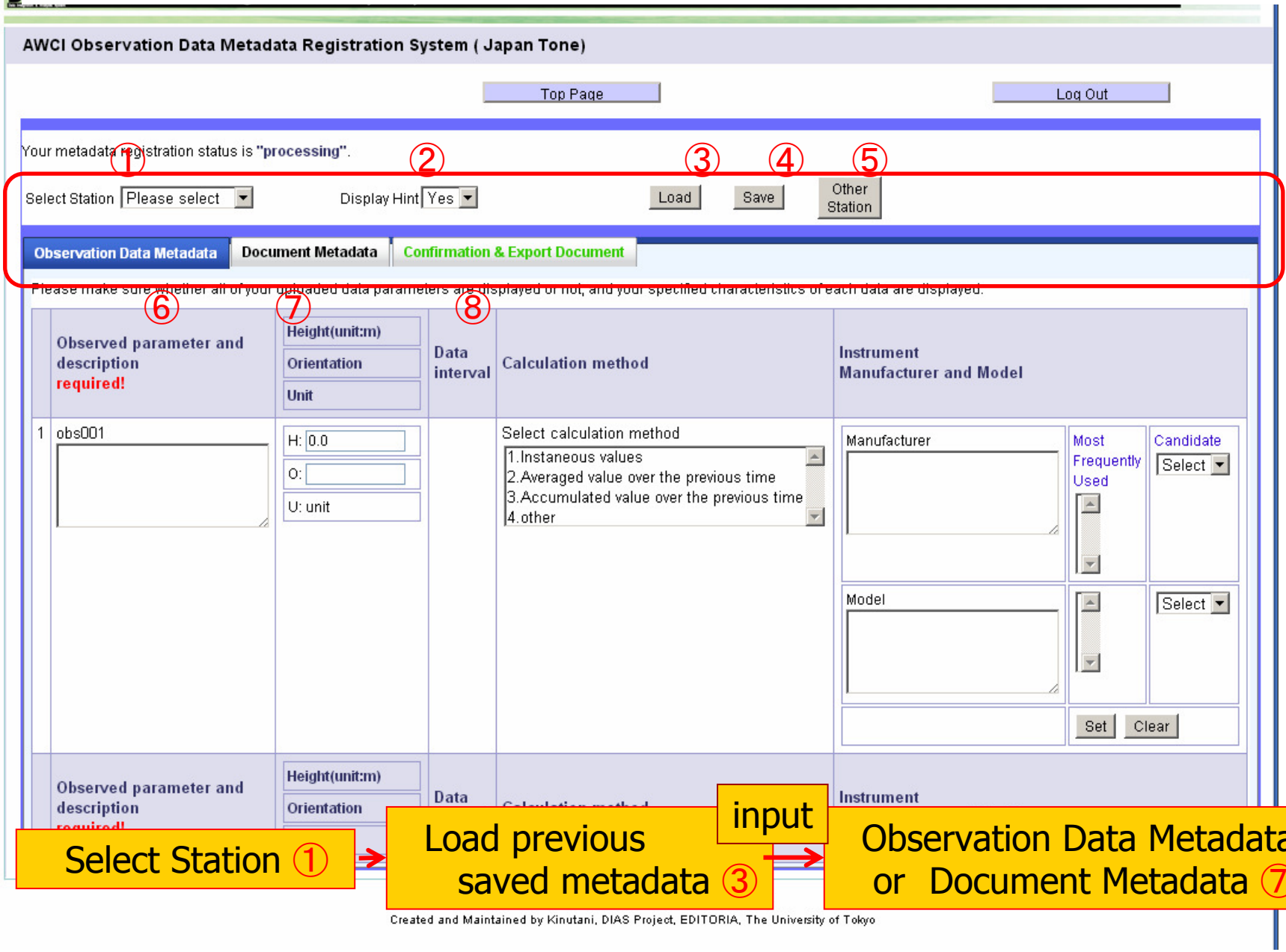
Name	Organization	Address	TEL & FAX	E-mail	Role
Prof. Ir. M. Syahril	Bandung Institute of Technology (ITB)	Research Divison of Water Resources Engineering, Faculty of Civil and Environmental Engineering, Jl. Ganesa 10 Bandung 40132 Indonesia	TEL: FAX:	msbadrik@lppm.itb.ac.id	principalInvestigator

2. Station Photo Upload

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

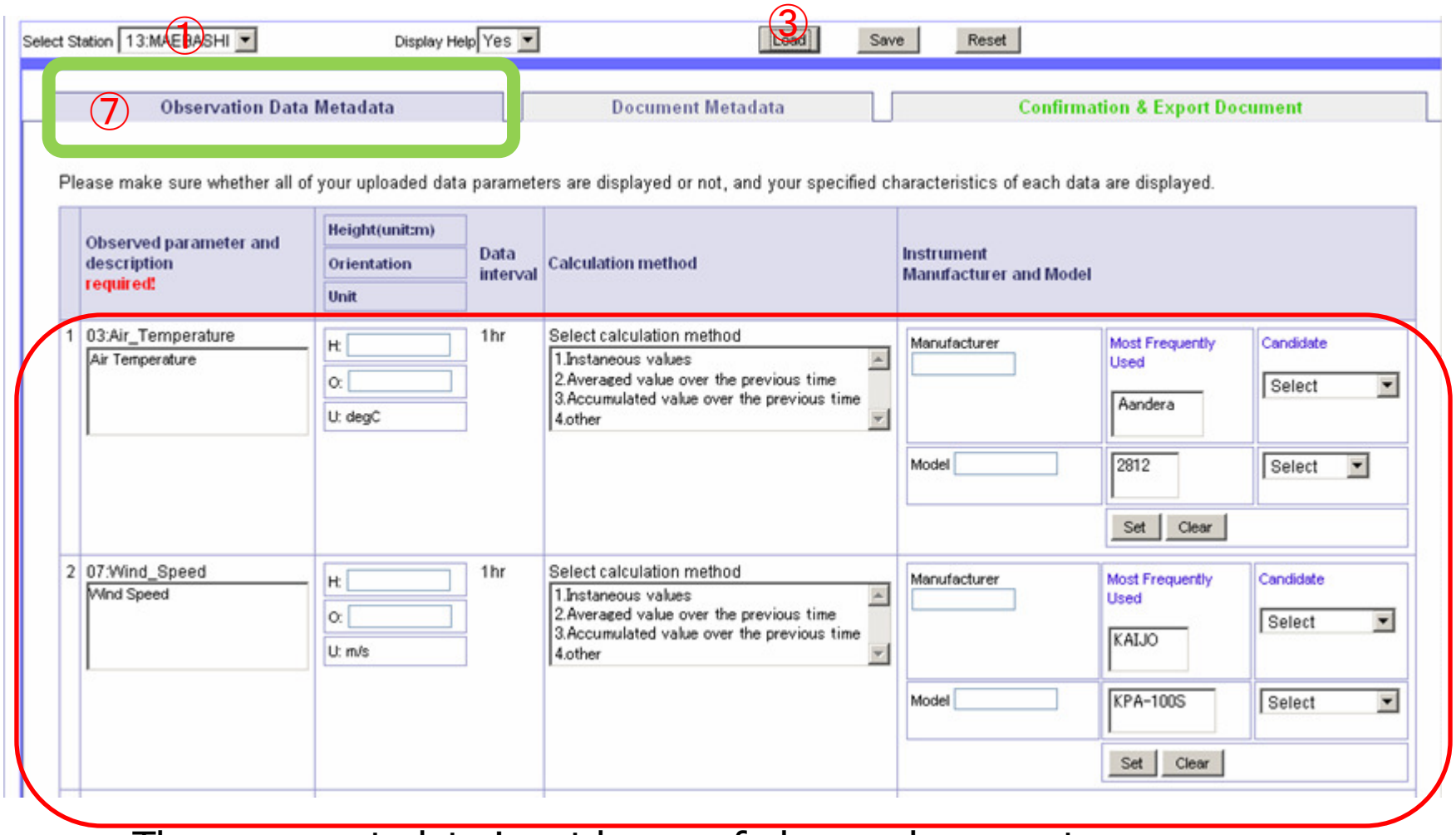


3. Input Metadata Page



3. Input Metadata Page

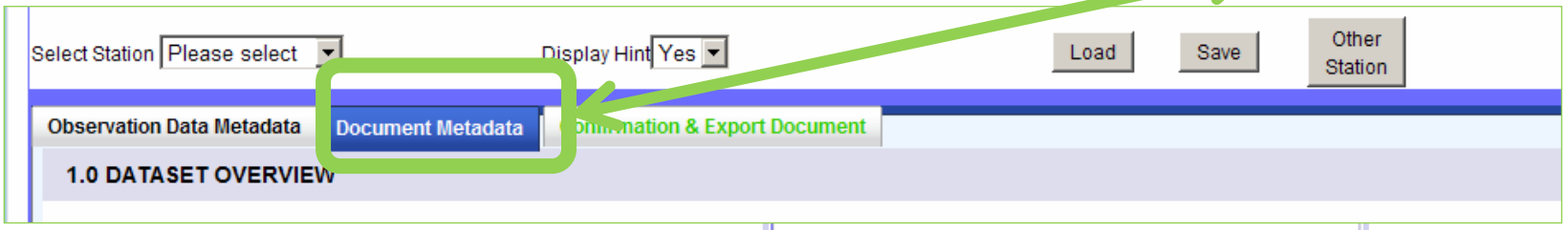
Select Station ① → Load previous saved metadata③ → input → Observation Data Metadata⑦

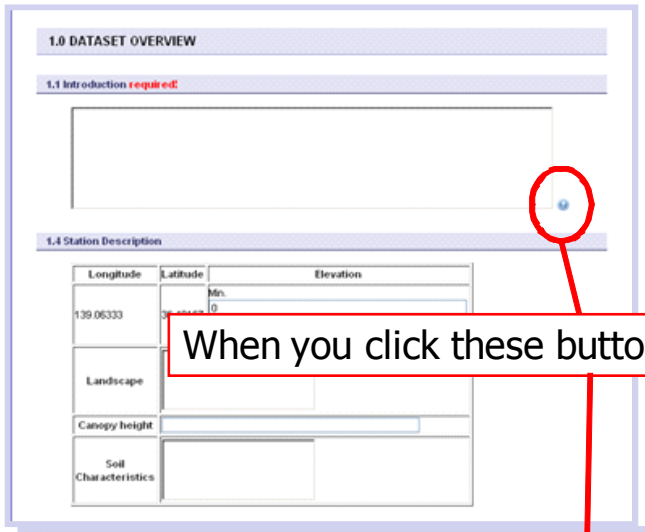


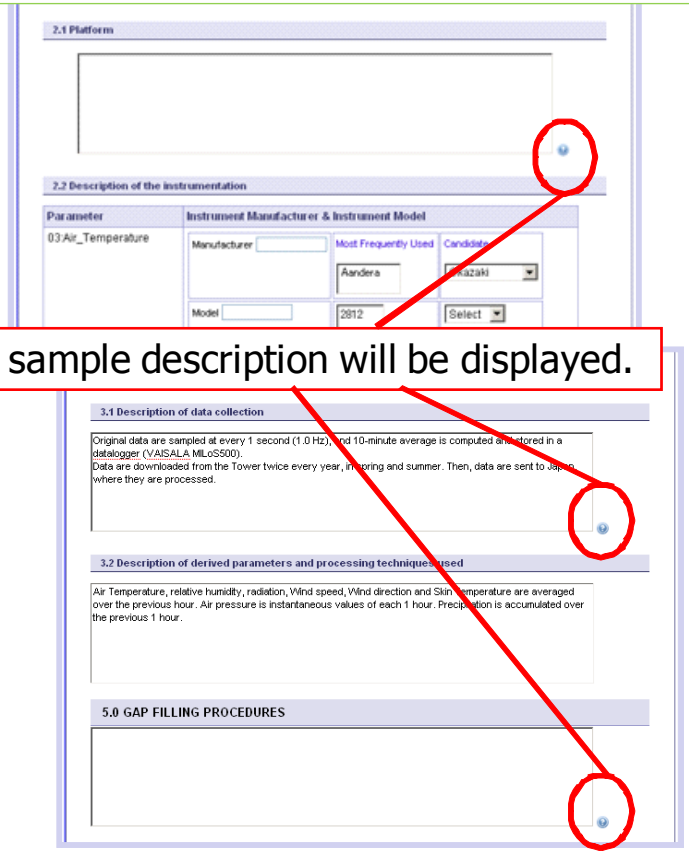
There are metadata input boxes of observed parameters.

3. Input Metadata Page

① Select Station → ③ Load previous saved metadata → input → ⑧ Document Metadata







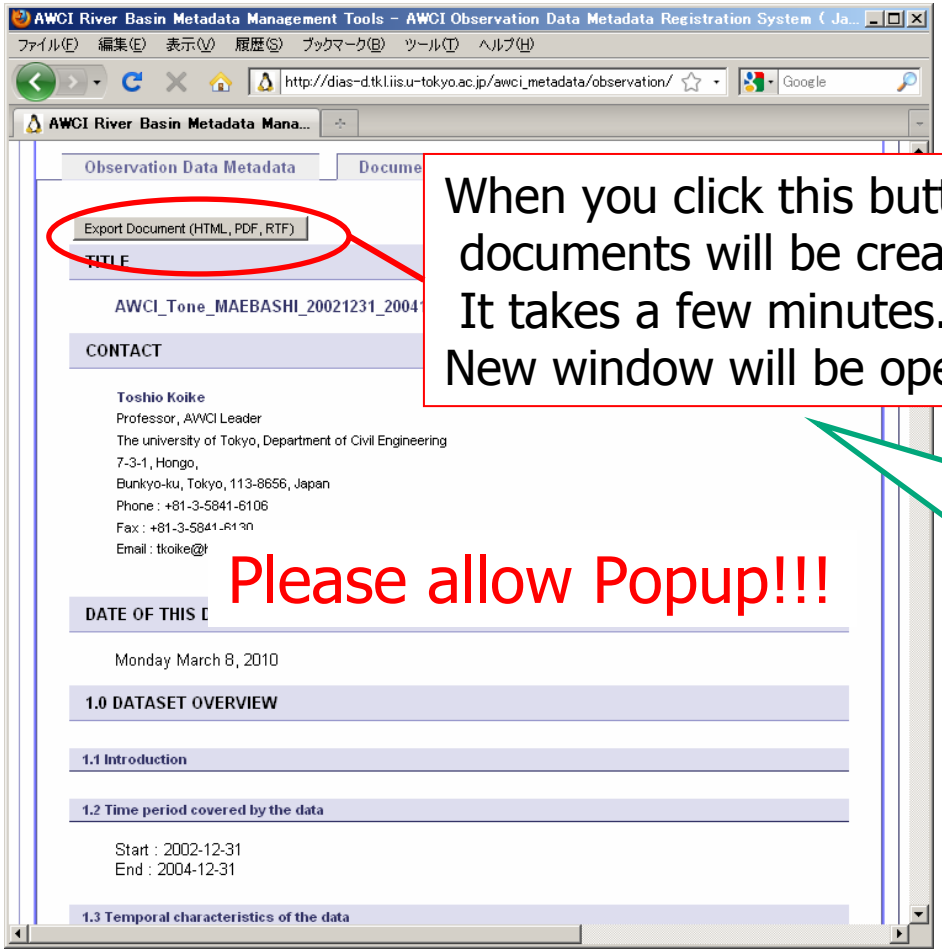
When you click these buttons, sample description will be displayed.

3. Input Metadata Page

Select Station①

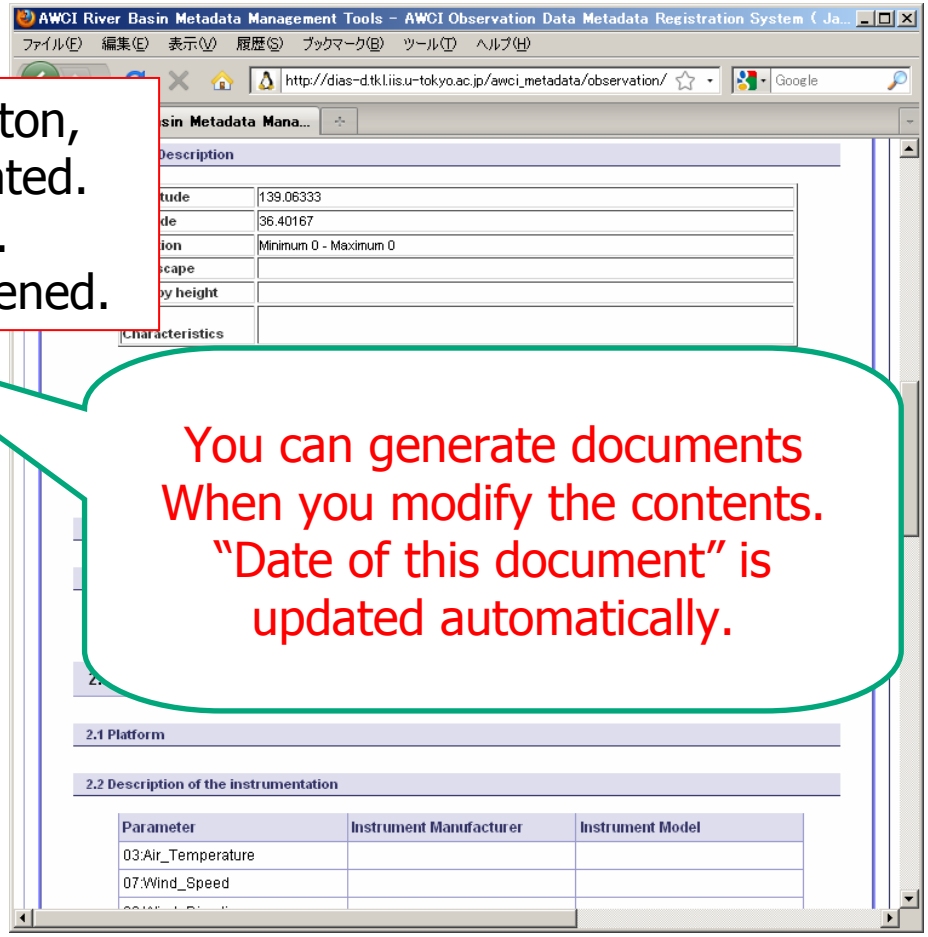
Load previous saved metadata③

Save, Confirmation & Export Document ⑧



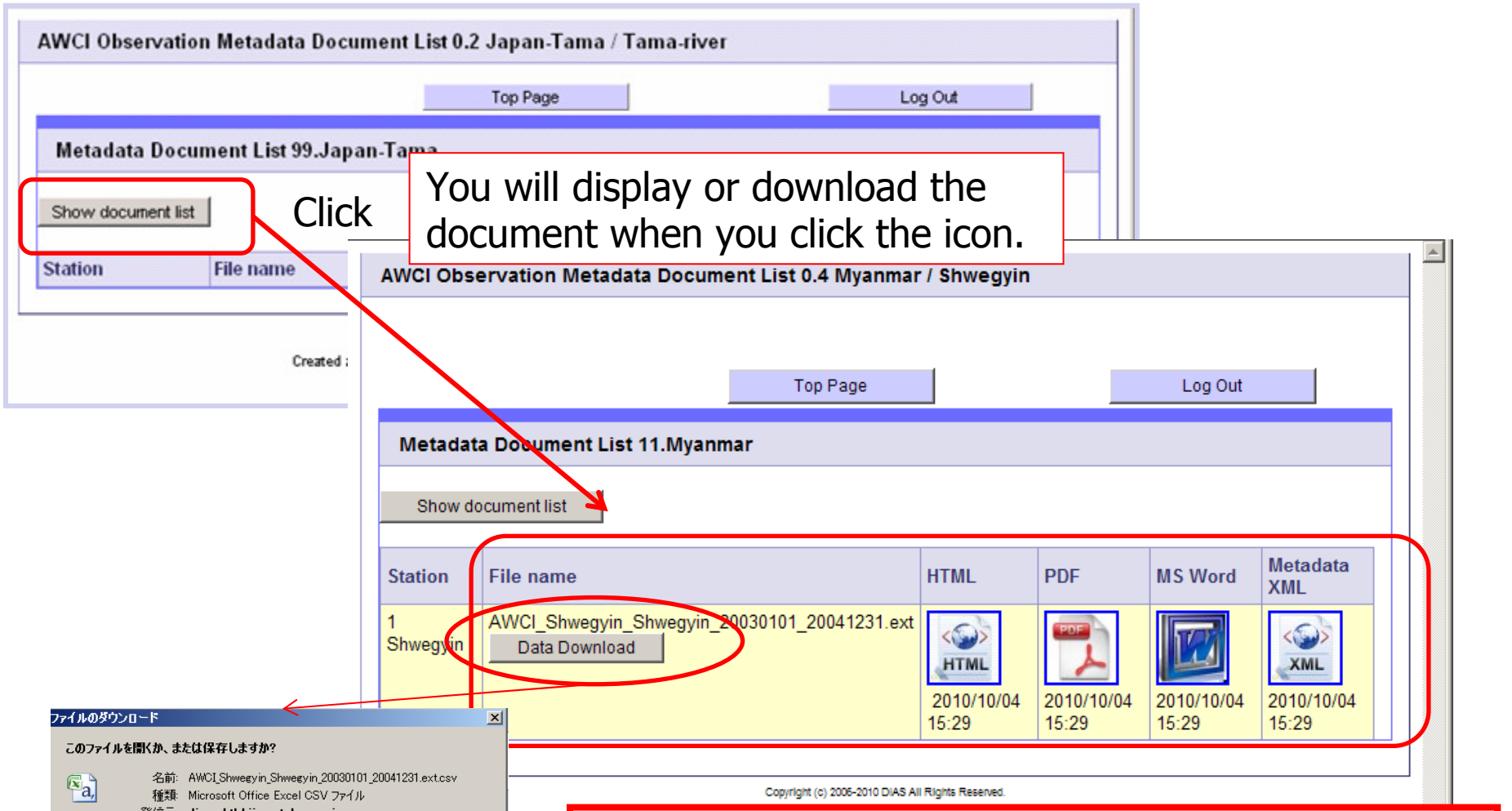
When you click this button, documents will be created. It takes a few minutes. New window will be opened.

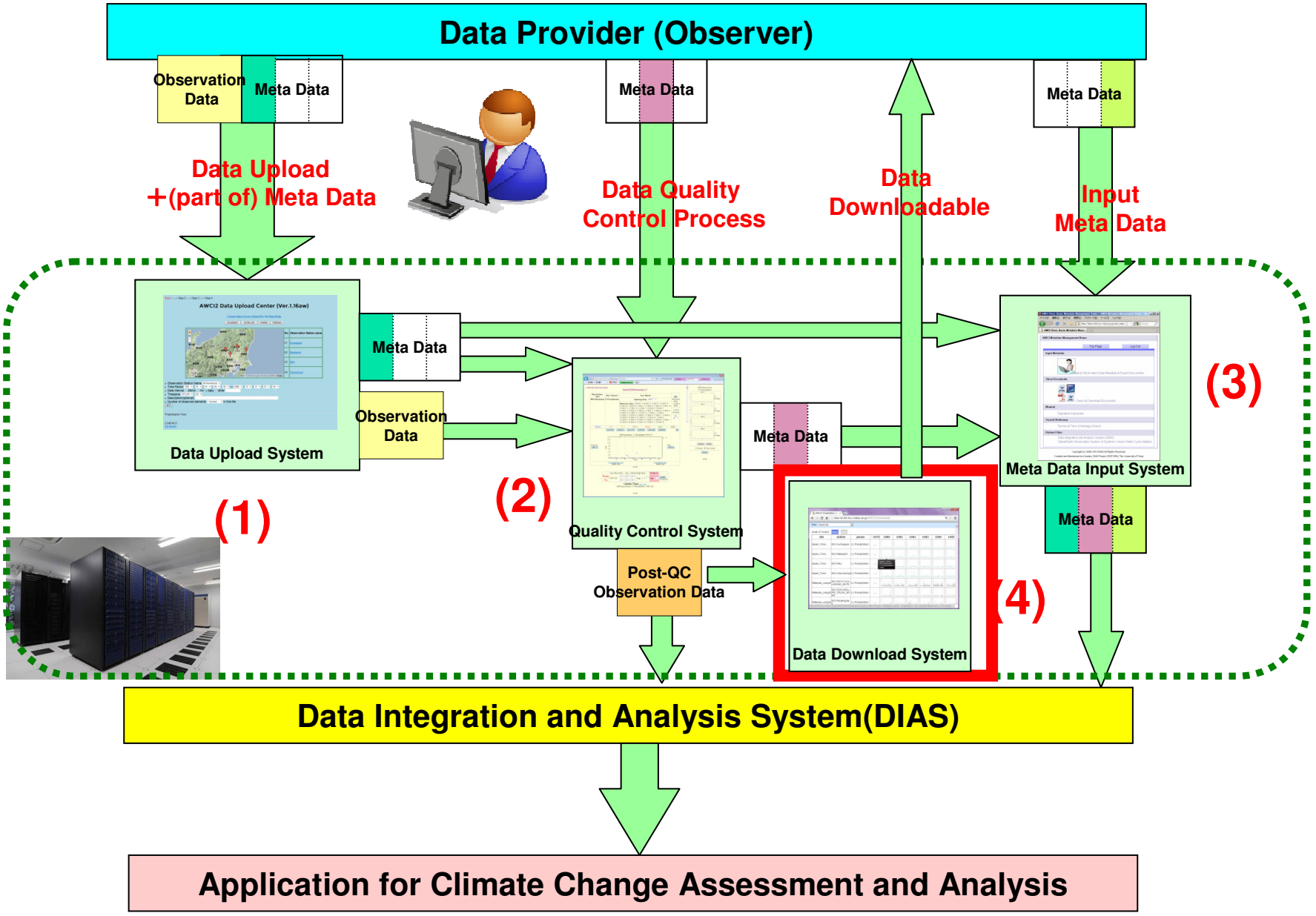
Please allow Popup!!!



You can generate documents When you modify the contents. "Date of this document" is updated automatically.

4. Show Document Page




Data Provider (Observer)
Observation Data
Meta Data
Meta Data
Meta Data
Data Upload
+(part of) Meta Data
Data Quality
Control Process
Data
Downloadable
Input
Meta Data
AWCI2 Data Upload Center (Ver.1.16aw)
Data Upload System
Meta Data
Observation Data
(1)
(2)
Quality Control System
Meta Data
Post-QC
Observation Data
Data Download System
(4)
Meta Data Input System
(3)
Meta Data
Data Integration and Analysis System(DIAS)
Application for Climate Change Assessment and Analysis

AWCI2 Data Visualization & Downloading System

System features:

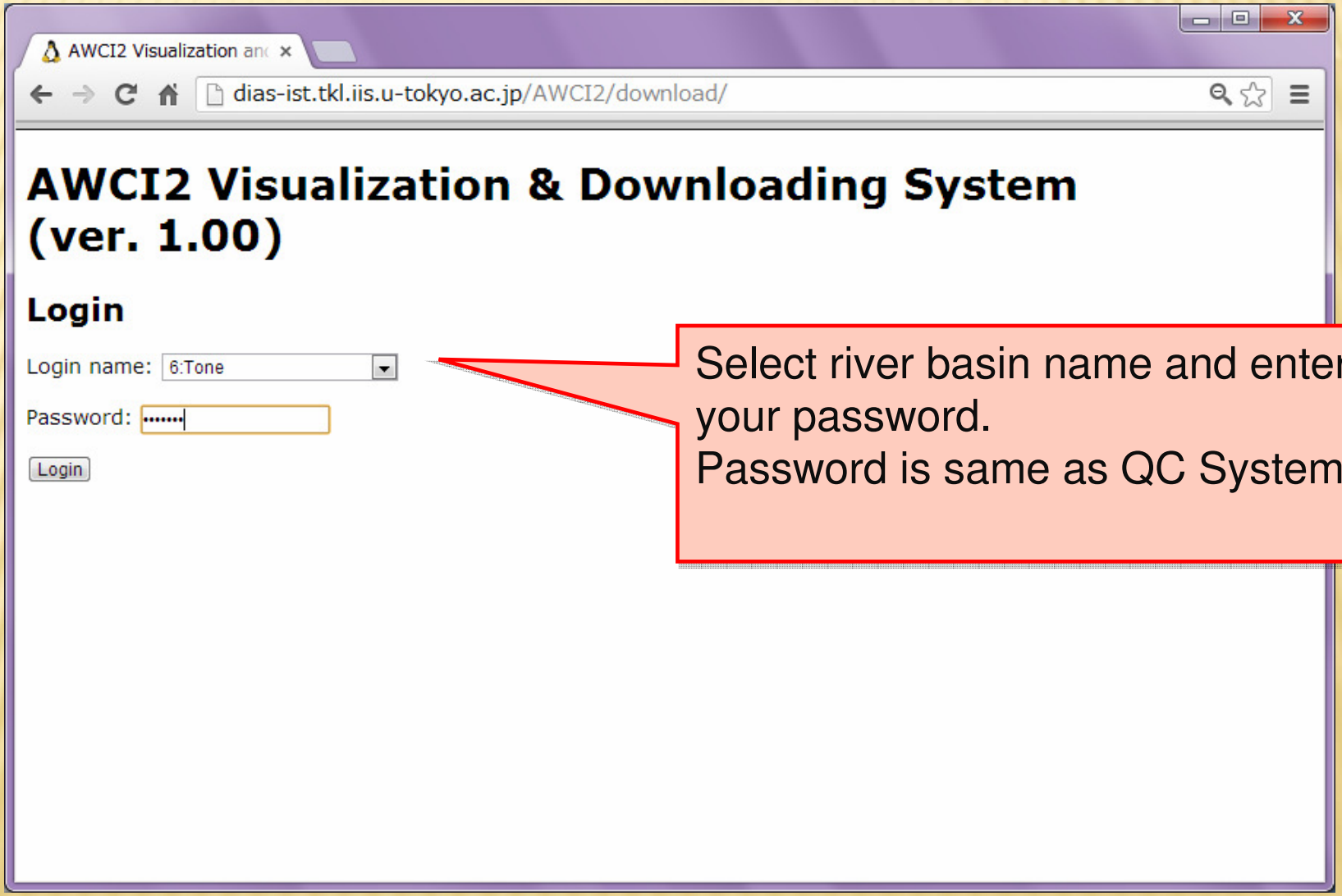
- Visualize uploaded data.
- Download data on demand.

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

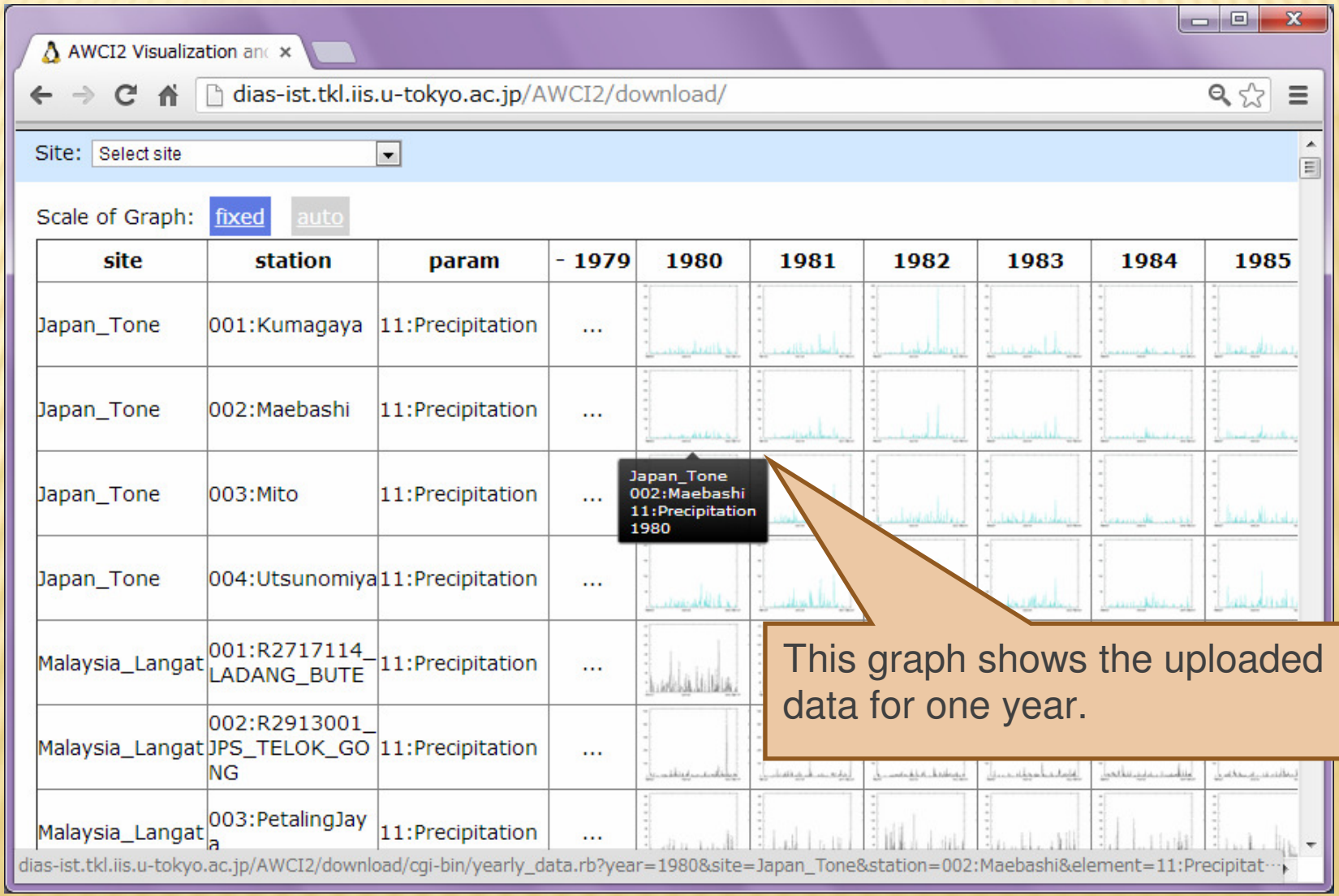
AWCI2 Data Visualization & Downloading System

Step. 1 Login

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

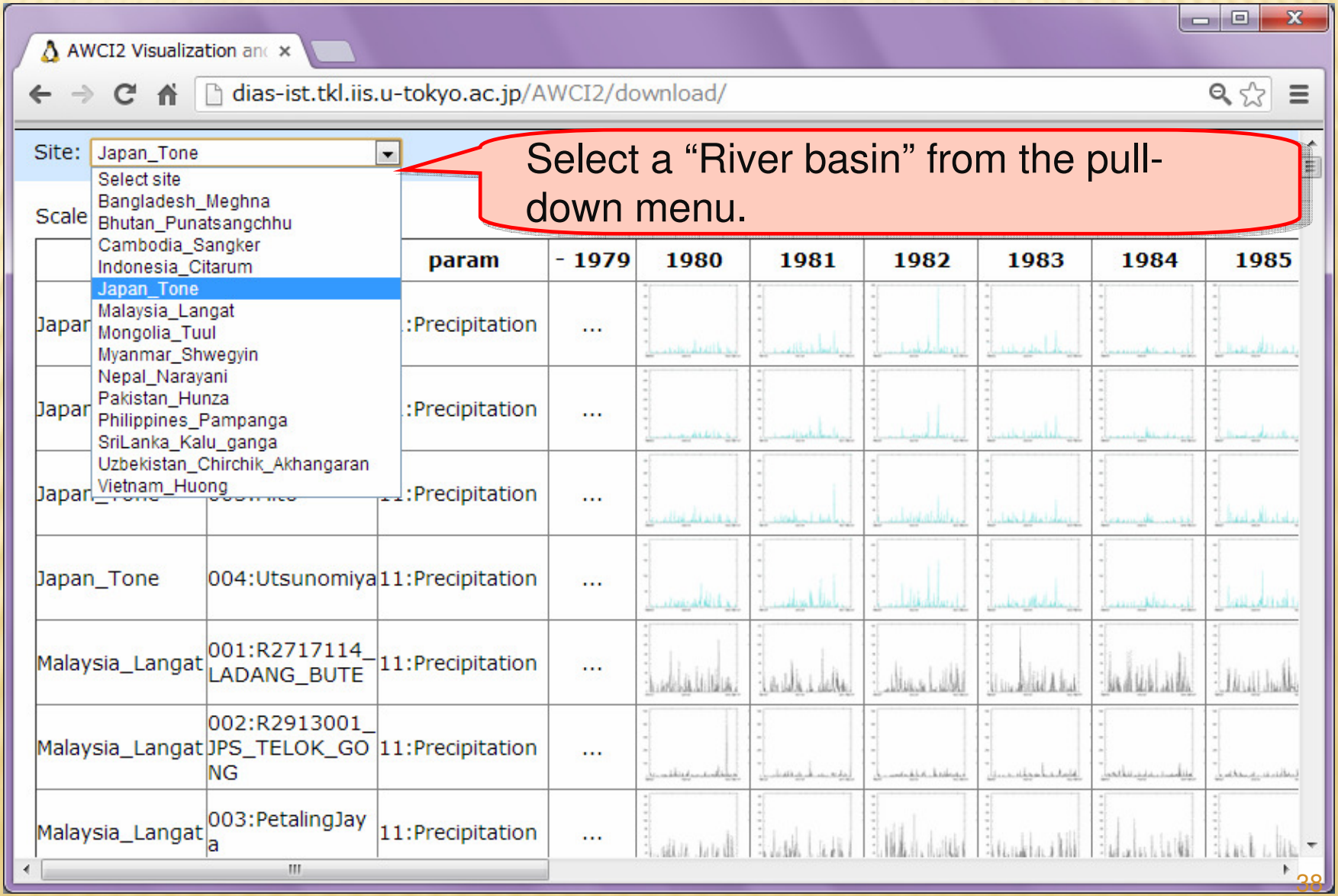


Step. 2 Data Visualization

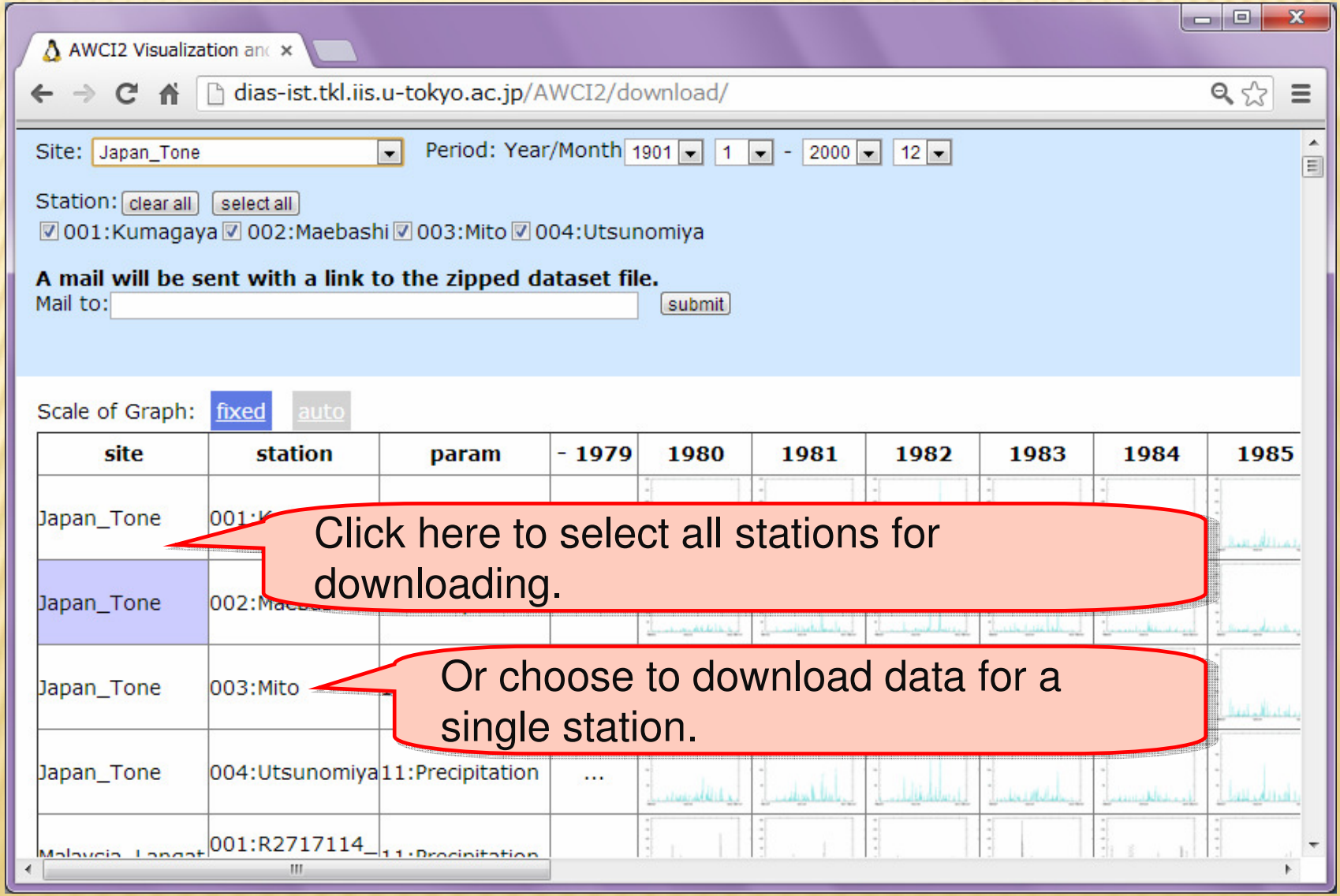


AWCI2 Visualization & Downloading System ver. 1.00

Step. 2 Data Visualization

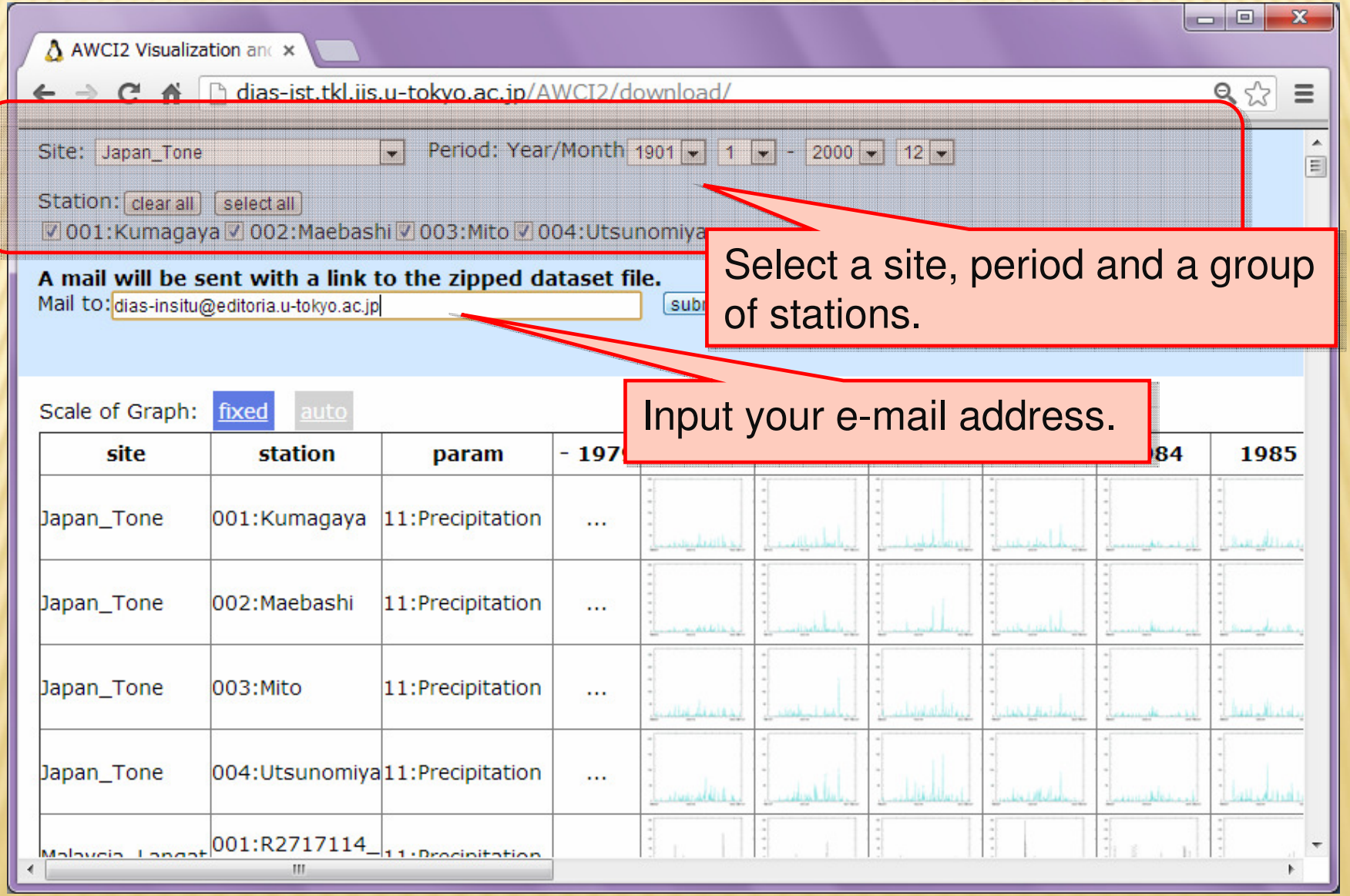


Step. 3-1 Downloading a dataset

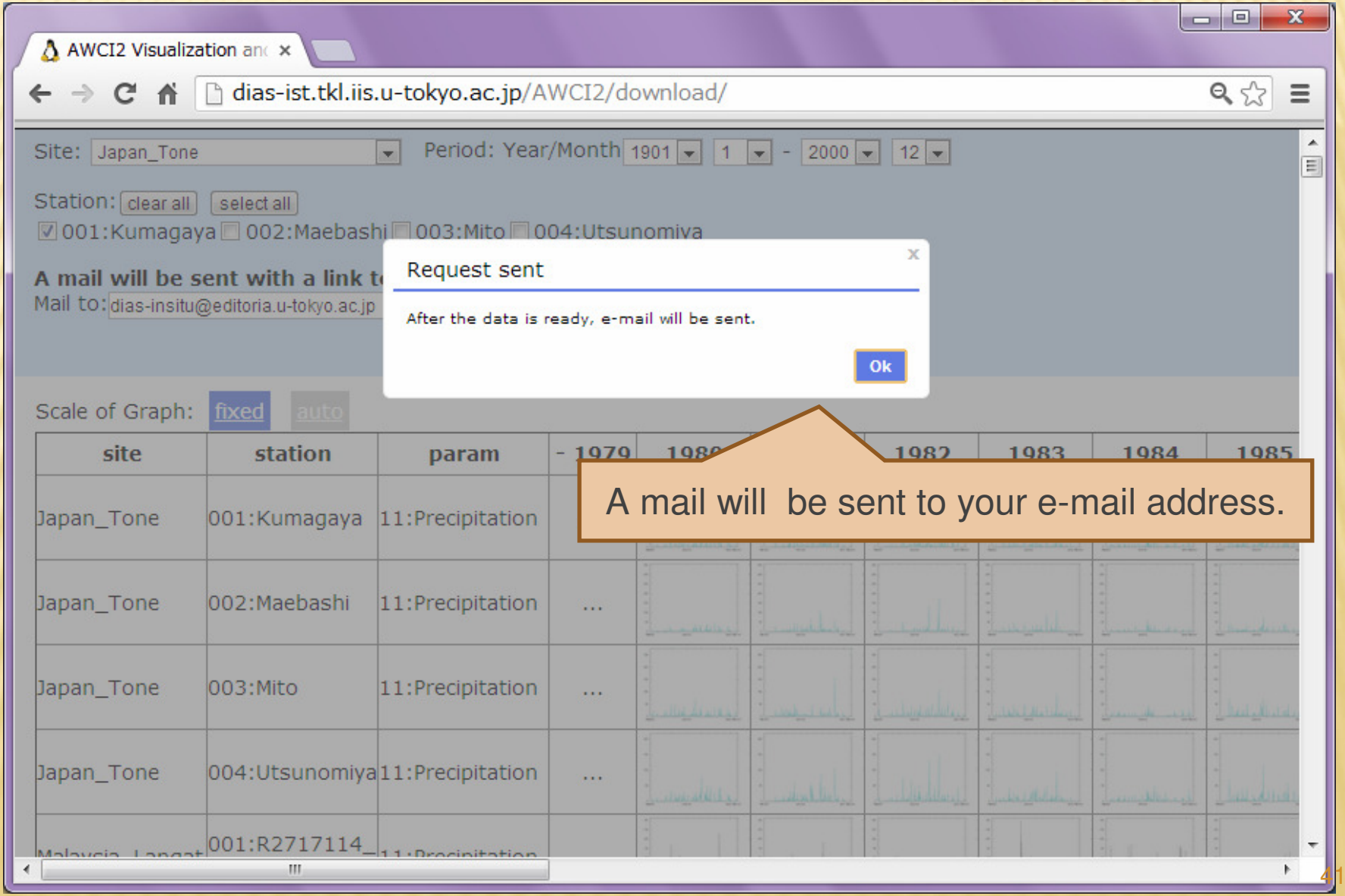


AWCI2 Visualization & Downloading System ver. 1.00

Step. 3-1 Downloading a dataset



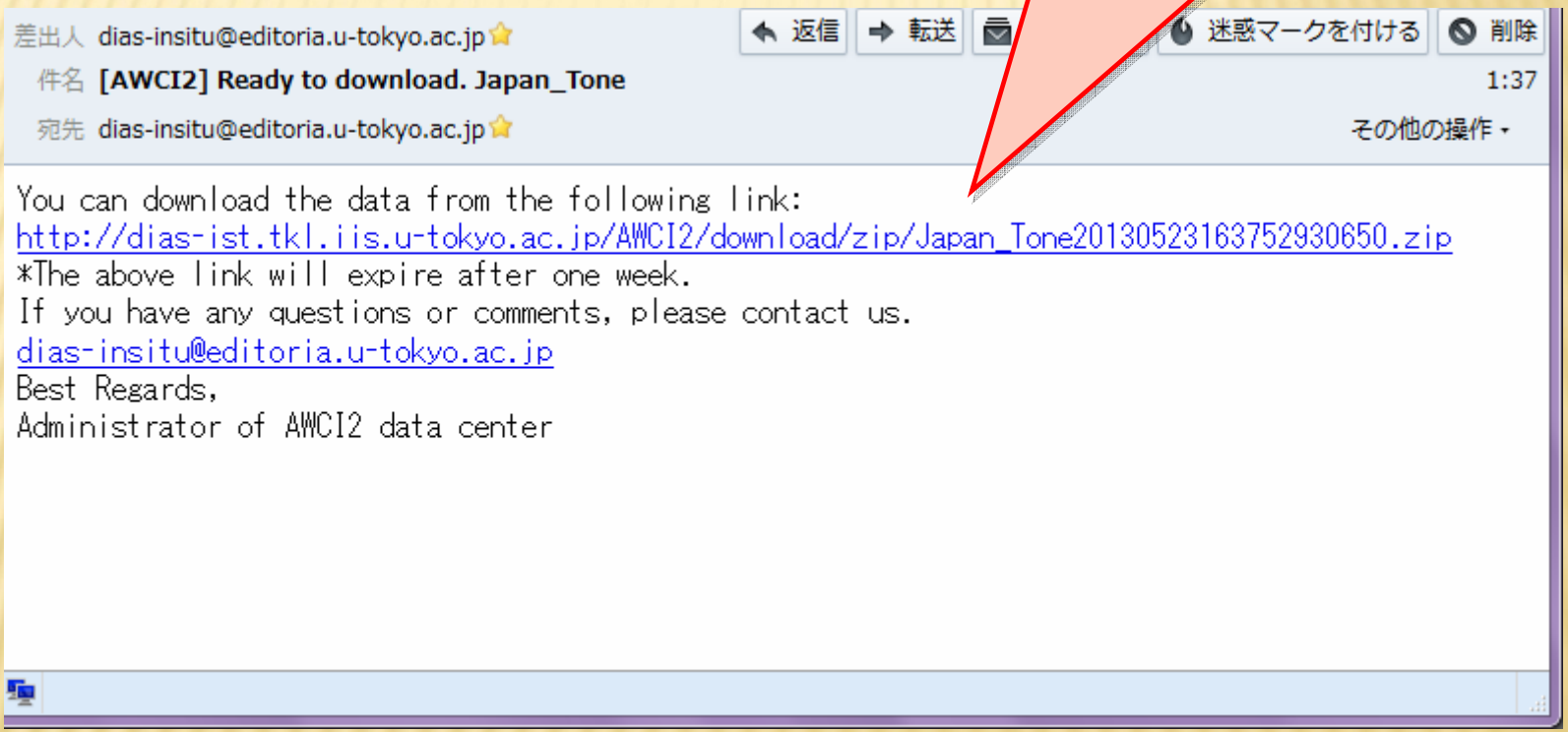
Step. 3-1-1 Downloading a dataset

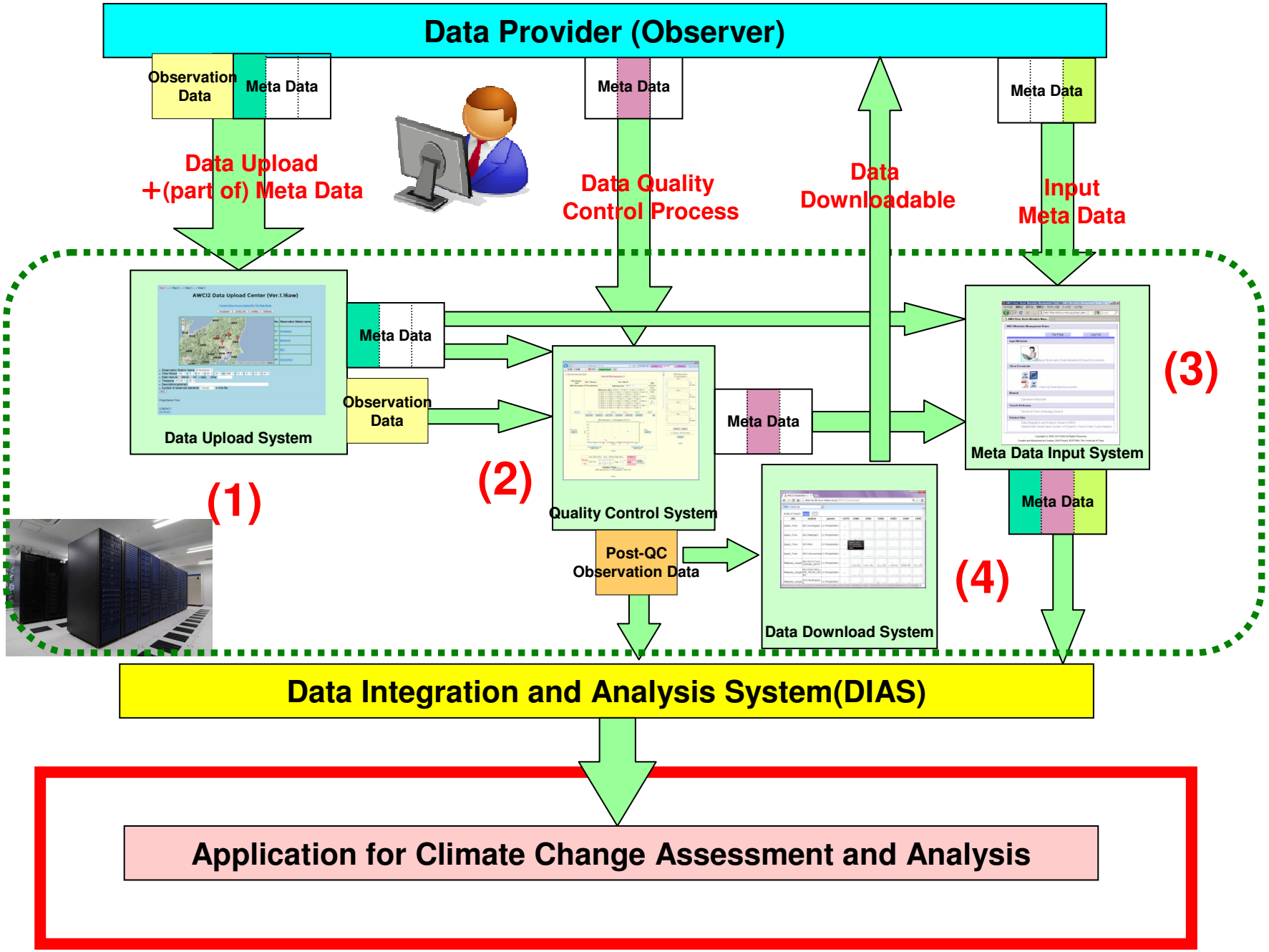


Step. 3-1-2 Downloading a dataset

Sample e-mail contents

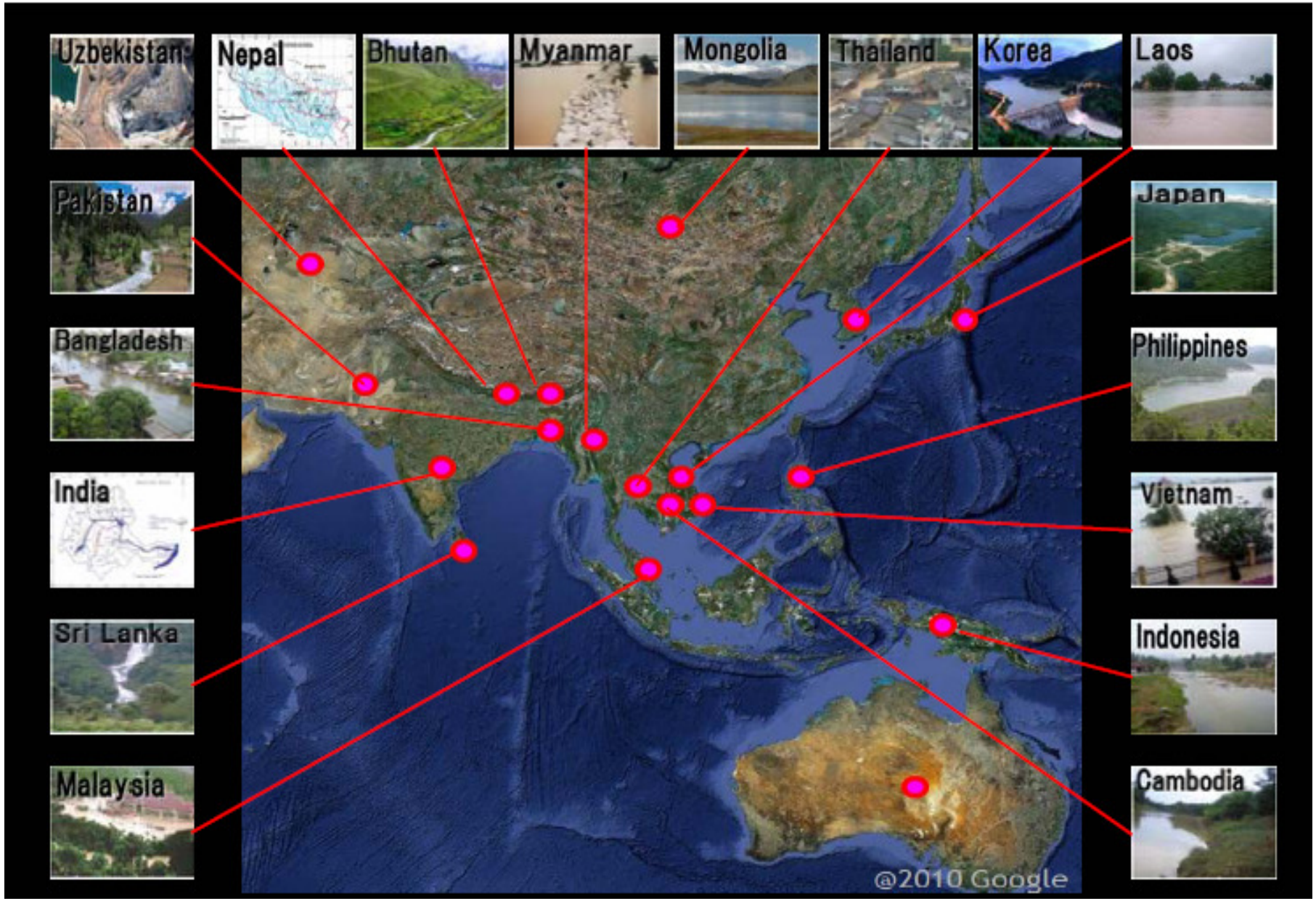
Click to download the dataset.




Data Provider (Observer)
Observation Data
Meta Data
Meta Data
Meta Data
Data Upload
+(part of) Meta Data
Data Quality
Control Process
Data
Downloadable
Input
Meta Data
Meta Data
Observation Data
Data Upload System
Meta Data
Quality Control System
Meta Data
Meta Data Input System
(3)
(1)
(2)
Post-QC
Observation Data
Meta Data
(4)
Data Download System
Data Integration and Analysis System(DIAS)
Application for Climate Change Assessment and Analysis

AWCI Phase2 Data Archive

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

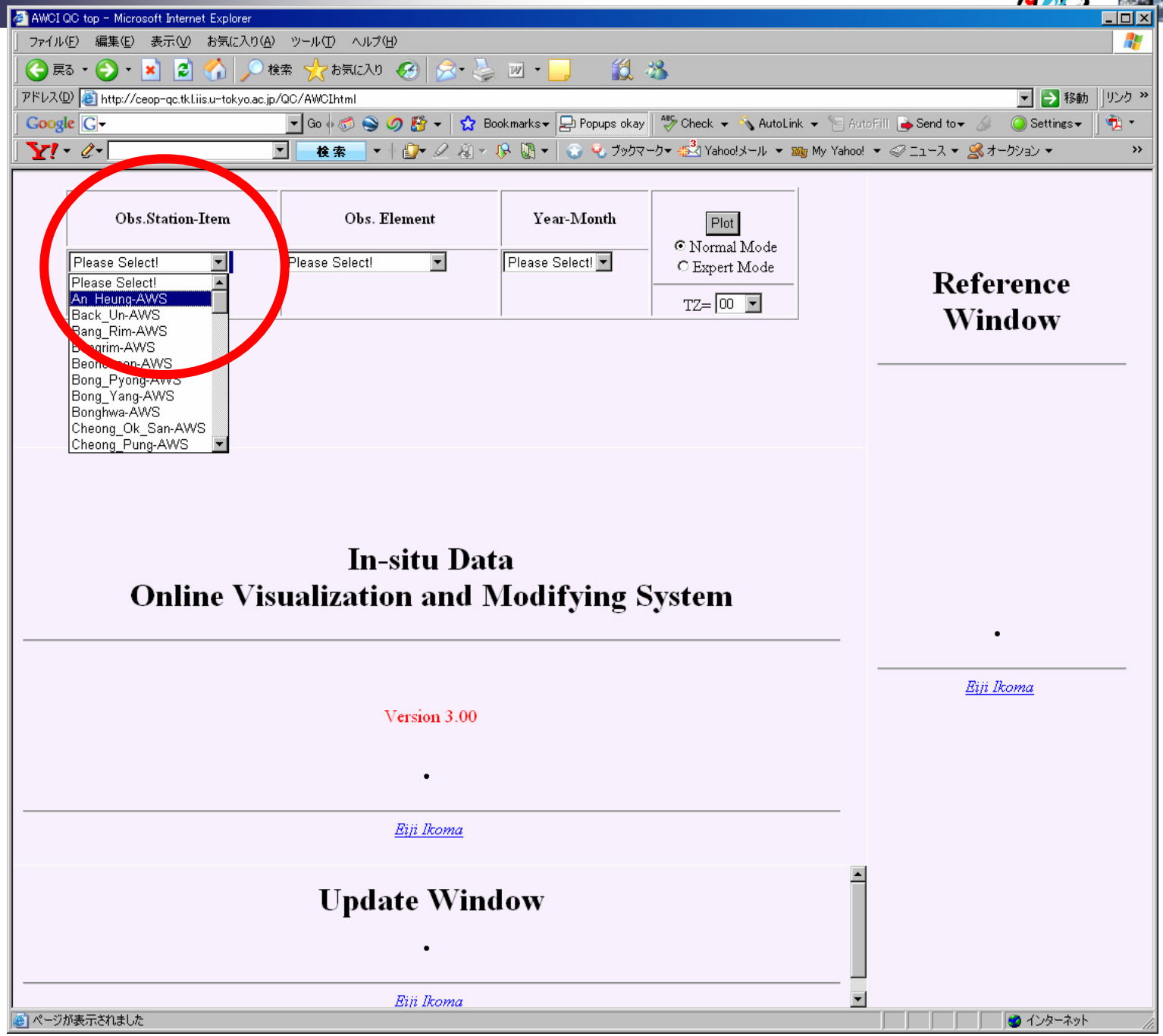
- Web-based, user-friendly, light-operation tool set:
  - In-situ data upload on to the system by user (data observer/provider/manager)
  - Data quality control functions – visual inspection
  - Metadata registration (observation metadata, document metadata) and generation of standardized metadata document -> 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

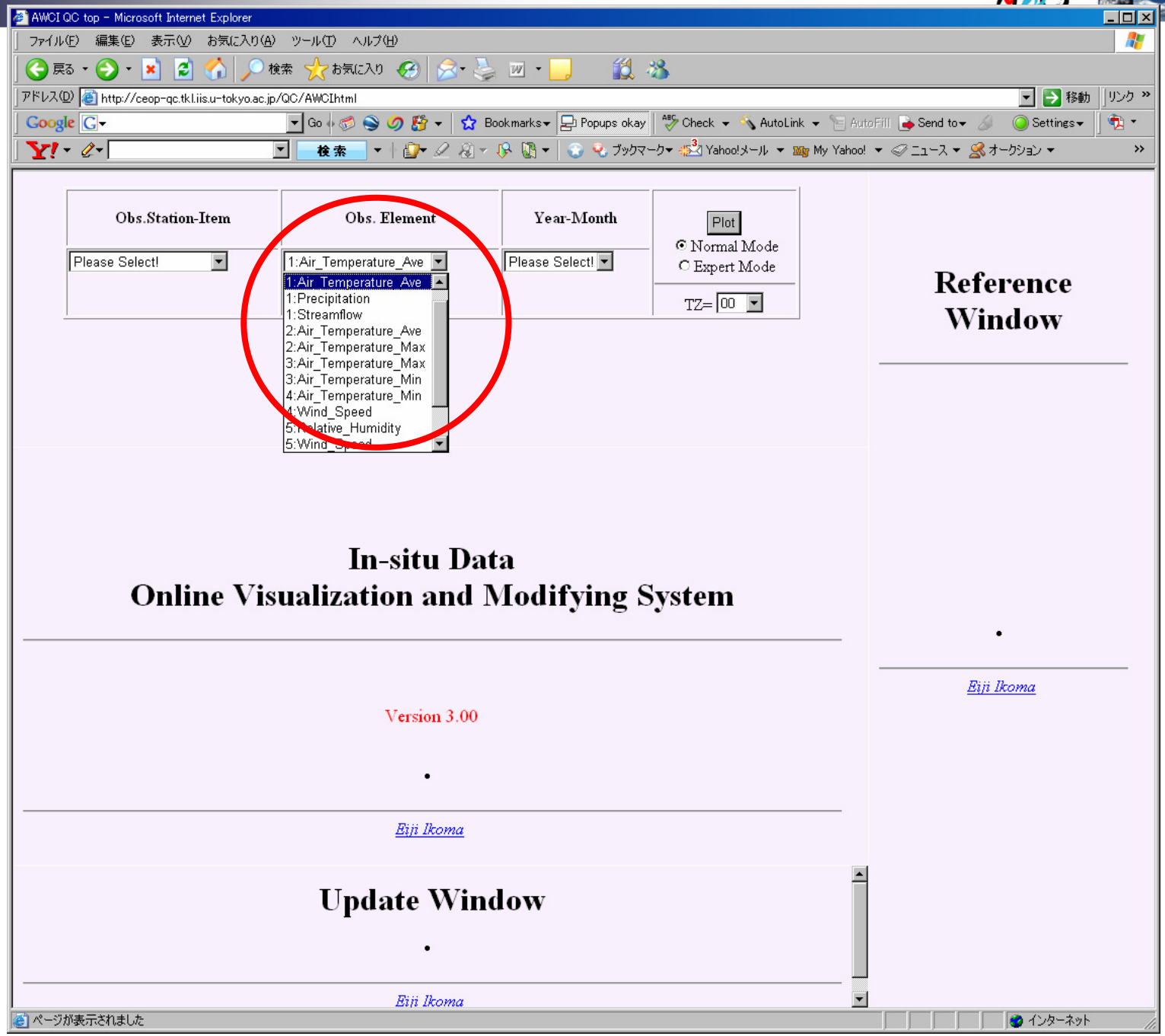
When you have some inquiry or comments, please contact us:

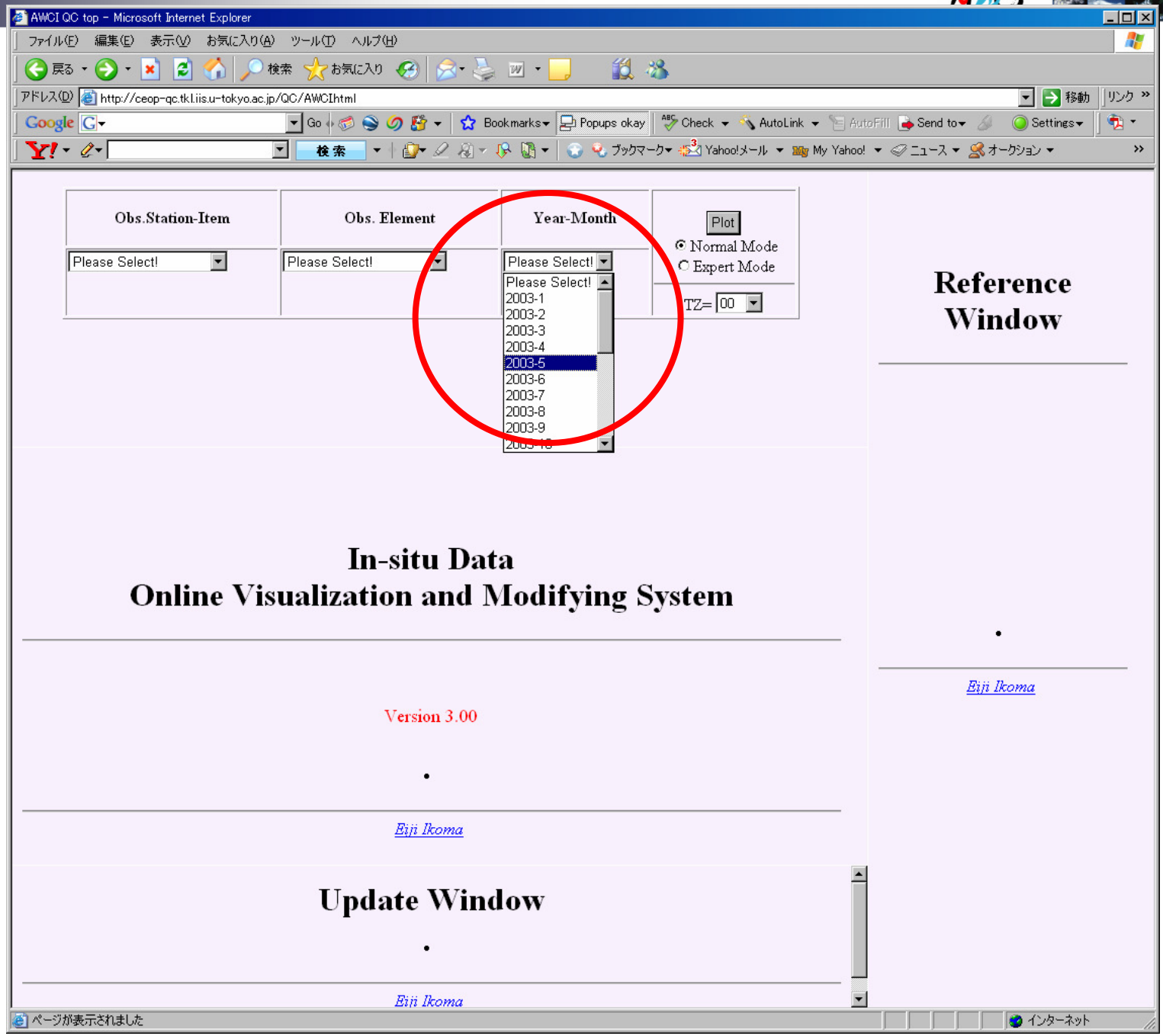
In-situ data Management Staff

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

Thank you for your attention.


AWCI QC top - Microsoft Internet Explorer
ファイル(F) 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/AWCIhtml
移動 リンク
Google Go Bookmarks Popups okay Check AutoLink AutoFill Send to Settings
検索 ブックマーク Yahoo!メール My Yahoo! ニュース オークション
Obs.Station-Item
Obs. Element
Year-Month
Plot
Normal Mode
Expert Mode
TZ= 00
Please Select!
Please Select!
Please Select!
Please Select!
An_Heung-AWS
Back_Un-AWS
Bang_Rim-AWS
Bong_Yang-AWS
Bonghwa-AWS
Cheong_Ok_San-AWS
Cheong_Pung-AWS
Reference Window
In-situ Data
Online Visualization and Modifying System
Version 3.00
Eiji Ikoma
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(F) 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/AWCIhtml
移動 リンク
Google Go Bookmarks Popups okay Check AutoLink AutoFill Send to Settings
検索 ブックマーク Yahoo!メール My Yahoo! ニュース オークション
Obs.Station-Item
Obs. Element
Year-Month
Plot
Normal Mode
Expert Mode
TZ= 00
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
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
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
Obs.Station-Item
Obs. Element
Year-Month
Plot
Normal Mode
Expert Mode
Please Select!
Please Select!
Please Select!
2003-1
2003-2
2003-3
2003-4
2003-5
2003-6
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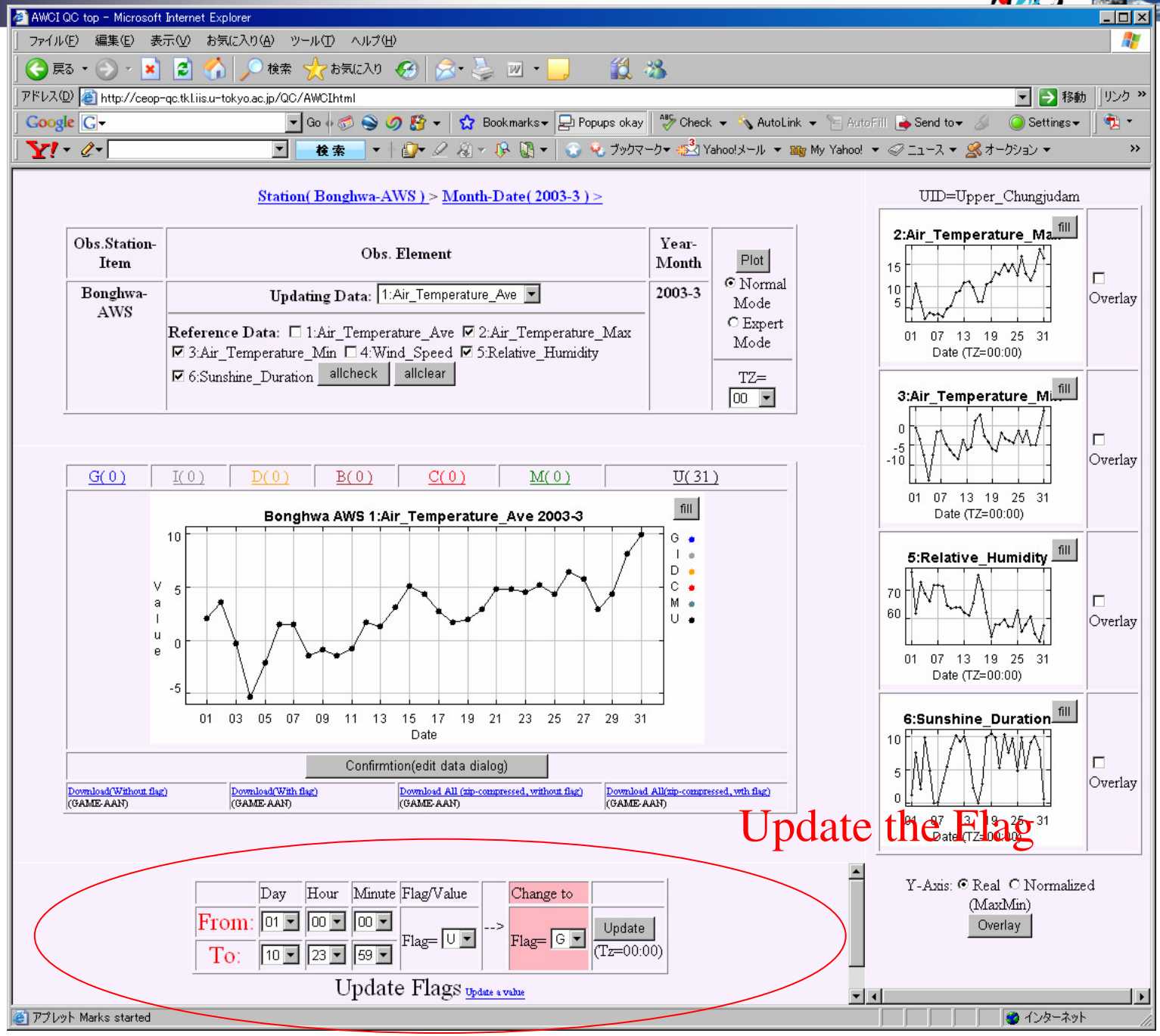
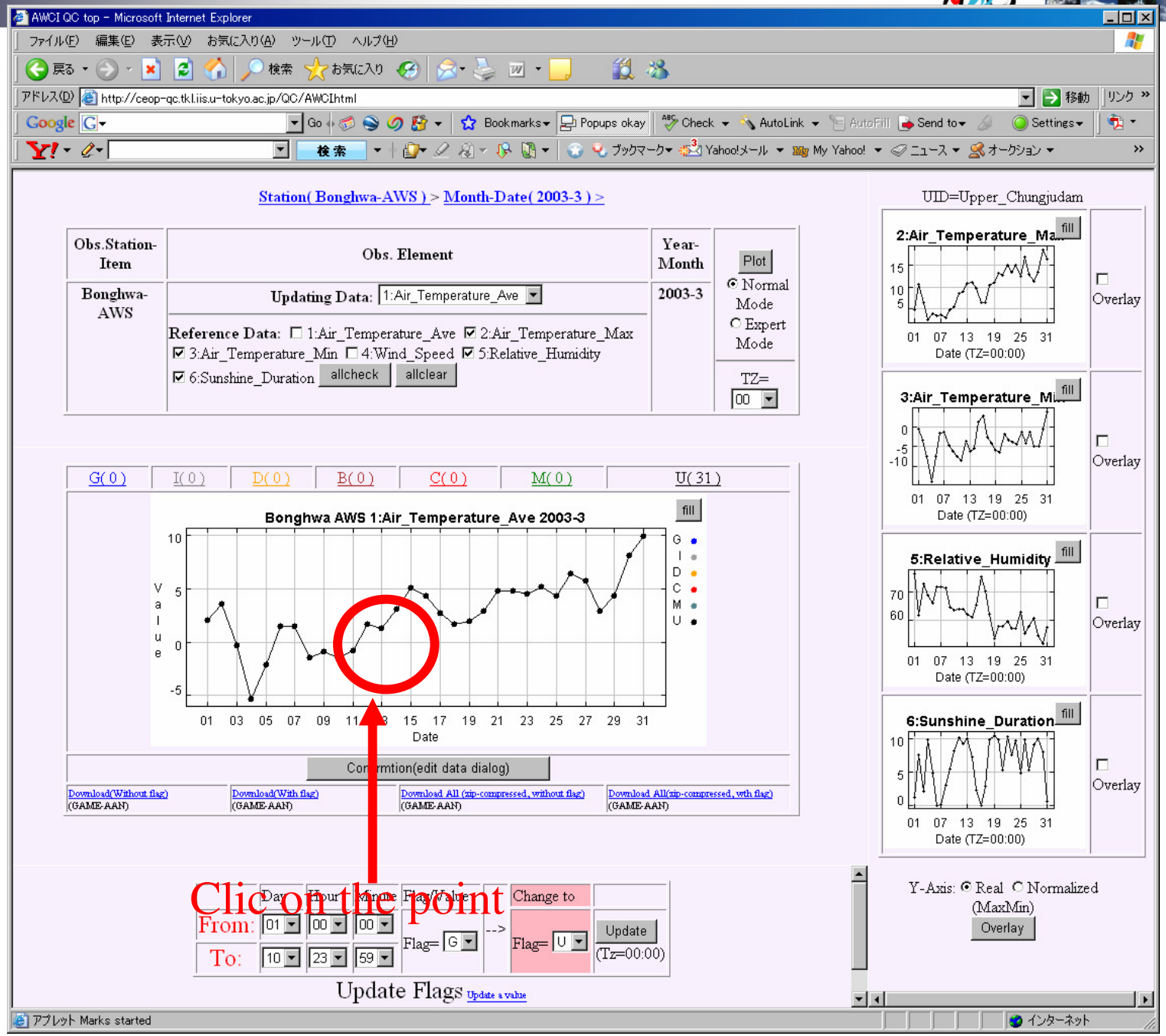
2003-9
TZ= 00
Reference Window
In-situ Data
Online Visualization and Modifying System
Version 3.00
Eiji Ikoma
Eiji Ikoma
Update Window
Eiji Ikoma
Eiji Ikoma
ページが表示されました
インターネット


AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
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
allcheck
allclear
Plot
Normal Mode
Expert Mode
TZ=
00
G(0) I(0) D(0) B(0) C(0) M(0) U(31)
Bonghwa AWS 1:Air_Temperature_Ave 2003-3
Value
Date
fill
Confirmtion(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
Date (TZ=00:00)
Overlay
Update the Flag
Day Hour Minute Flag/Value Change to
From: 01 00 00 Flag= U --> Flag= G
To: 10 23 59
Update
(Tz=00:00)
Update Flags
Update a value
Y-Axis: Real Normalized
(MaxMin)
Overlay
アプレット Marks started
インターネット


AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
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
allcheck
allclear
Plot
Normal Mode
Expert Mode
TZ=
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Bonghwa AWS 1:Air_Temperature_Ave 2003-3
Value
Date
fill
Confirmtion(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, wth flag) (GAME-AAN)
Clic on the point
From:
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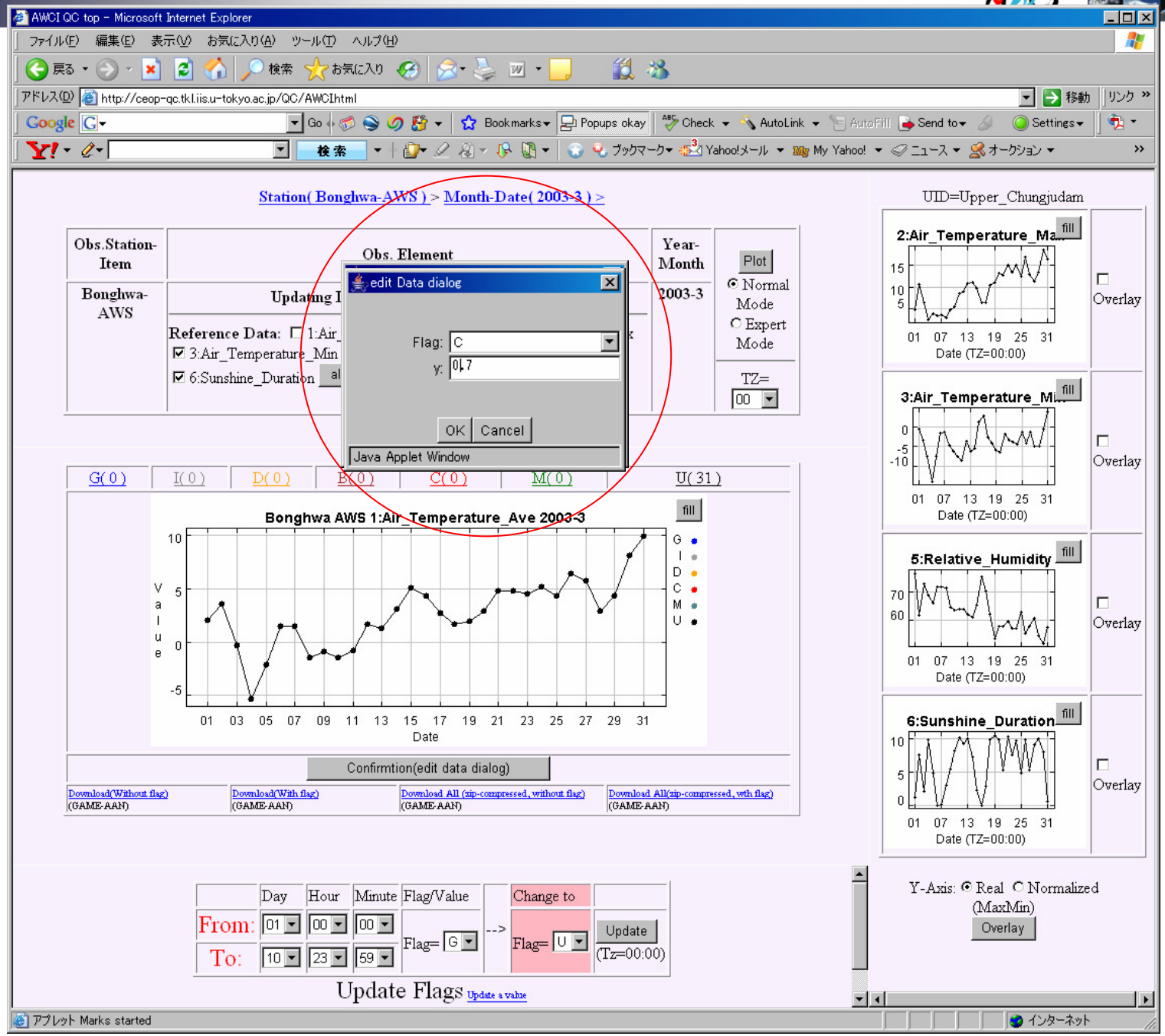
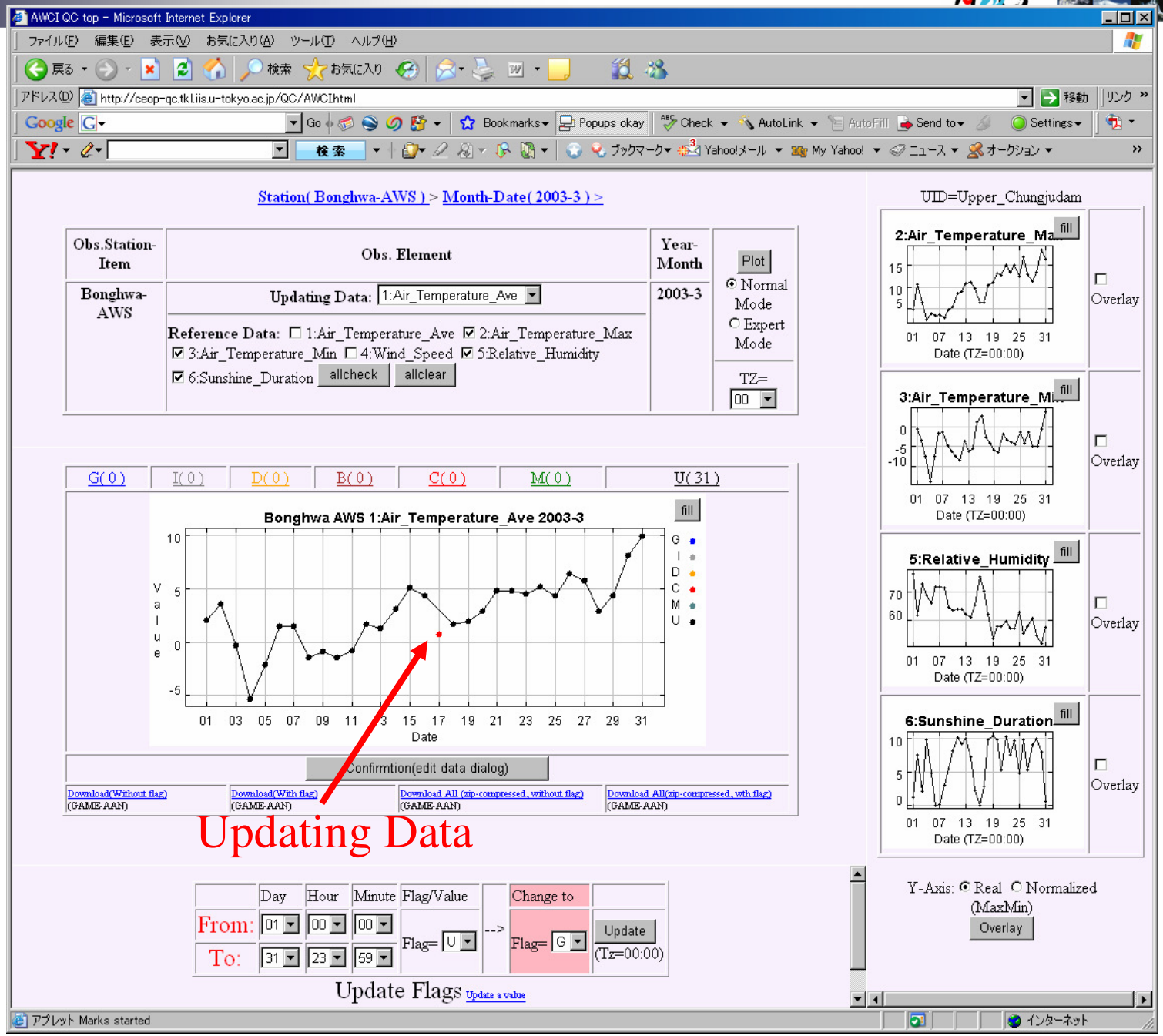
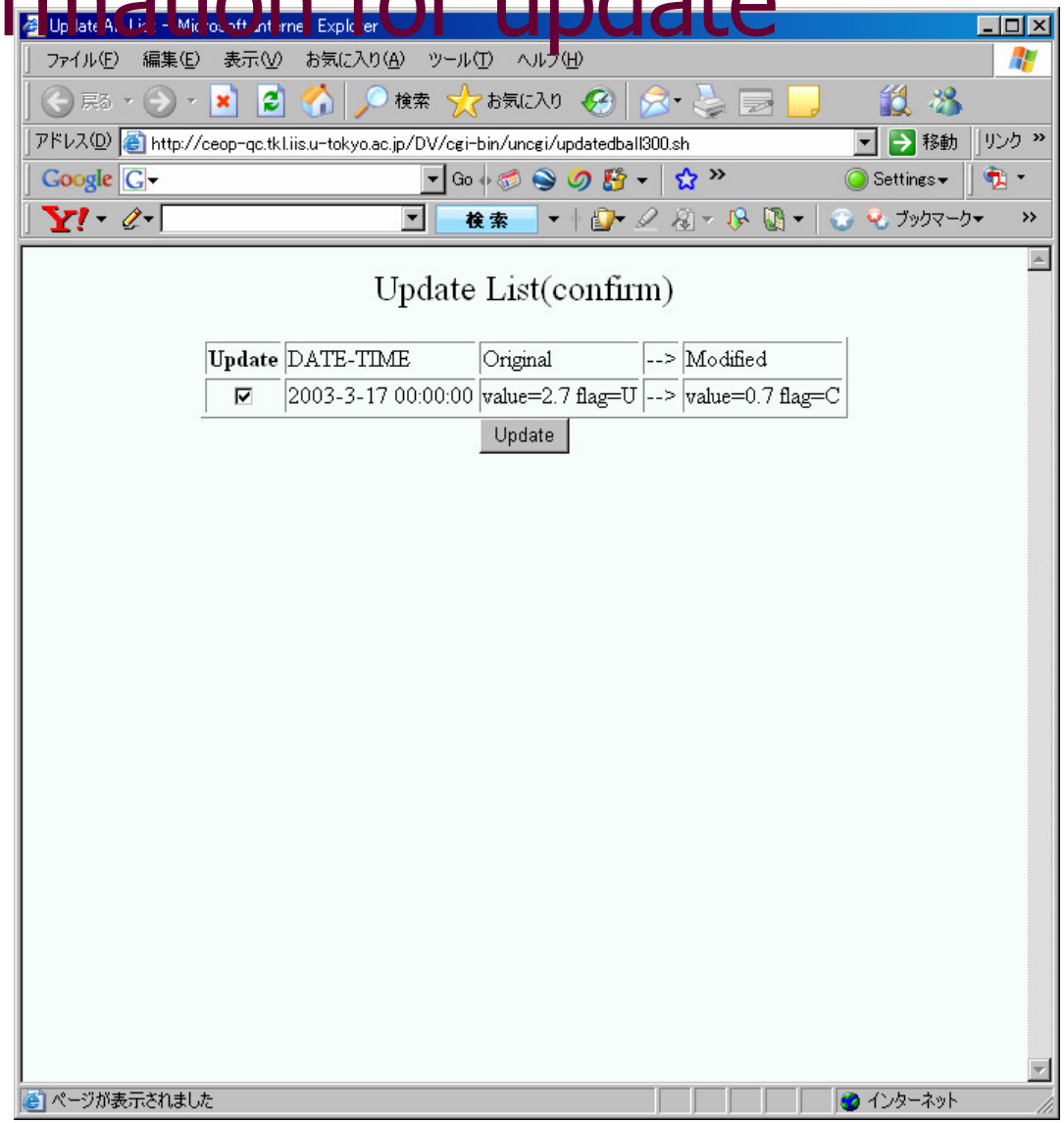
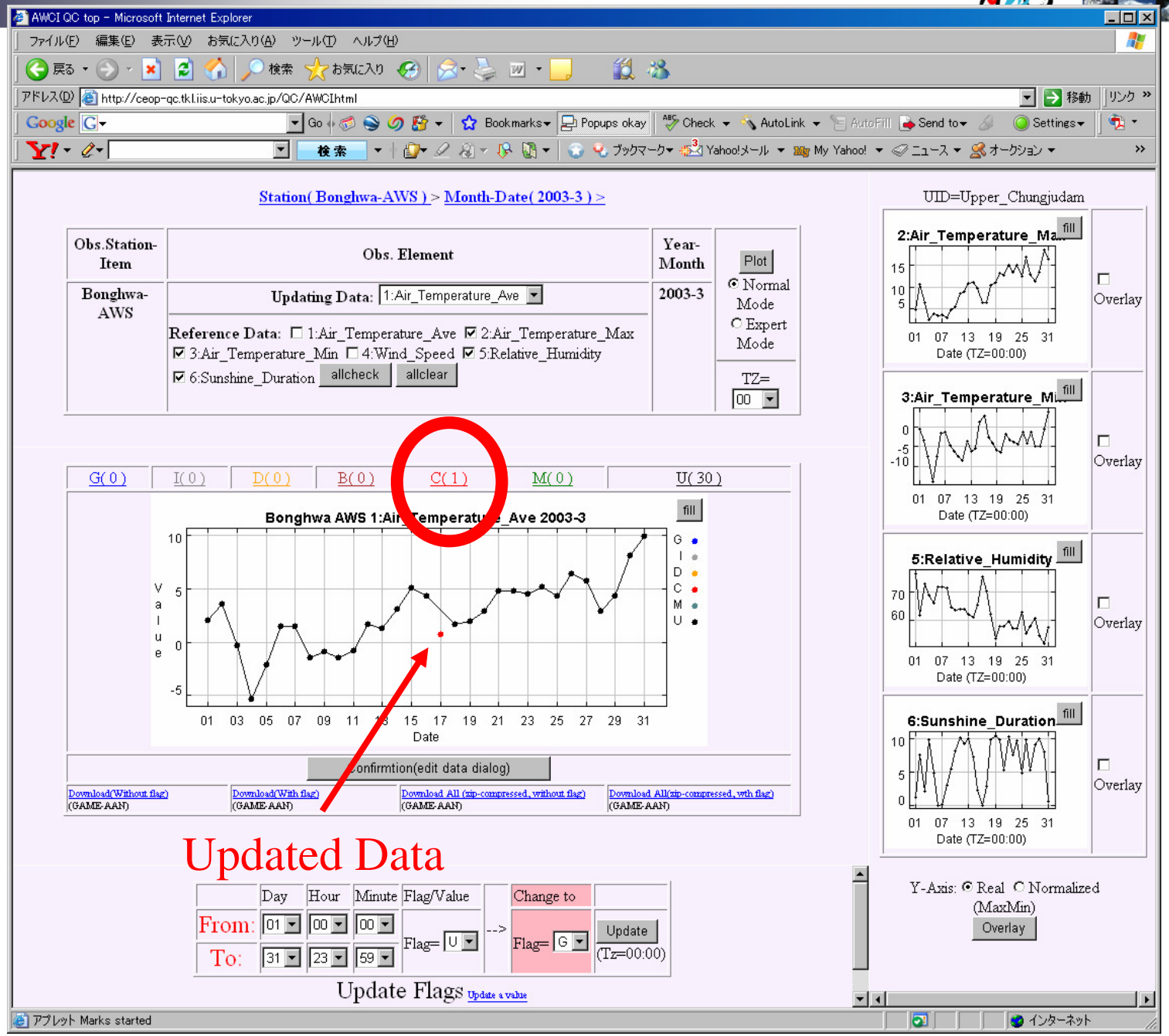
Flag=
Change to
Update
(Tz=00:00)
Update Flags
Update a value
UID=Upper_Chungjudam
2:Air_Temperature_Ma...
3:Air_Temperature_Mi...
5:Relative_Humidity
6:Sunshine_Duration
Overlay
Y-Axis: Real Normalized
(MaxMin)
Overlay
アプレット Marks started
インターネット


AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
Station(Bonghwa-AWS) > Month-Date(2003-3) >
Obs.Station-Item
Obs. Element
Year-Month
Bonghwa-AWS
2003-3
Plot
Normal Mode
Expert Mode
TZ=
Reference Data:
3:Air_Temperature_Min
6:Sunshine_Duration
edit Data dialog
Flag: C
y: 0.7
OK
Cancel
Java Applet Window
G(0)
I(0)
D(0)
E(0)
C(0)
M(0)
U(31)
Bonghwa AWS 1:Air_Temperature_Ave 2003-3
Value
Date
fill
Confirmtion(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, wth flag) (GAME-AAN)
UID=Upper_Chungjudam
2:Air_Temperature_Ma
3:Air_Temperature_Mi
5:Relative_Humidity
6:Sunshine_Duration
Date (TZ=00:00)
Overlay
Day
Hour
Minute
Flag/Value
Change to
From:
To:
Flag= G
Flag= U
Update
(Tz=00:00)
Update Flags
Update a value
Y-Axis: Real Normalized
(MaxMin)
Overlay
アプレット Marks started
インターネット


AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
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
allcheck
allclear
Plot
Normal Mode
Expert Mode
TZ=
00
G(0) I(0) D(0) B(0) C(0) M(0) U(31)
Bonghwa AWS 1:Air_Temperature_Ave 2003-3
fill
Value
Date
Confirmtion(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)
Updating Data
Day Hour Minute Flag/Value Change to
From: 01 00 00 Flag= U --> Flag= G Update
To: 31 23 59 (Tz=00:00)
Update Flags Update a value
UID=Upper_Chungjudam
2:Air_Temperature_Ma...
3:Air_Temperature_Mi...
5:Relative_Humidity
6:Sunshine_Duration
Overlay
Y-Axis: Real Normalized (MaxMin)
Overlay
アプレット Marks started
インターネット

Confirmation for update




AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
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
allcheck
allclear
Plot
Normal Mode
Expert Mode
TZ=
00
G(0) I(0) D(0) B(0) C(1) M(0) U(30)
Bonghwa AWS 1:Air_Temperature_Ave 2003-3
fill
Value
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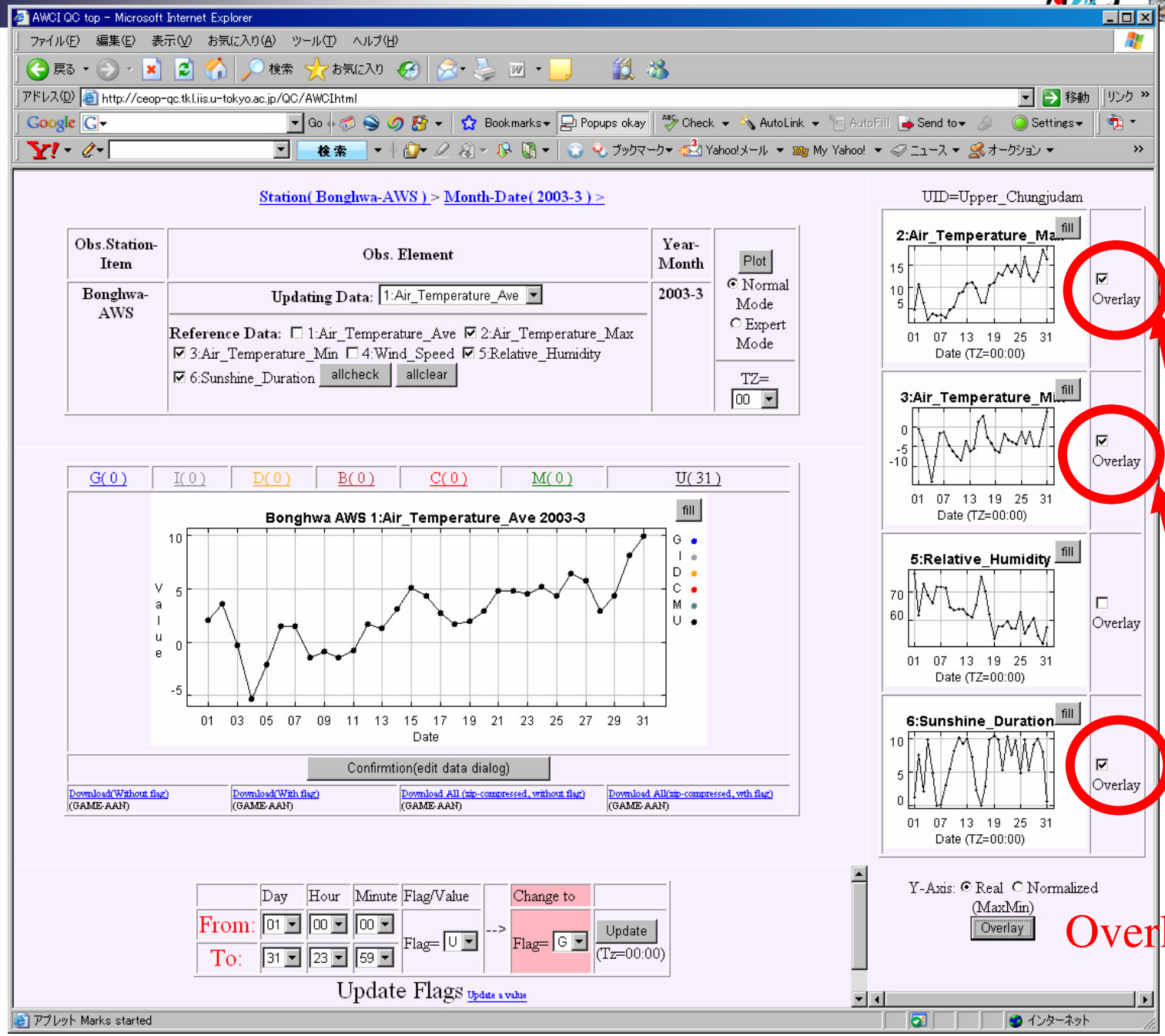
G
I
D
C
M
U
confirmtion(edit data dialog)
Download(Without flag) (GAME-AAN)
Download(With flag) (GAME-AAN)
Download All (zip-compressed, without flag) (GAME-AAN)
Download All(zip-compressed, with flag) (GAME-AAN)
Updated Data
Day
Hour
Minute
Flag/Value
Change to
From:
To:
Flag= U
Flag= G
Update
(Tz=00:00)
Update Flags
Update a value
UID=Upper_Chungjudam
2:Air_Temperature_Ma...
3:Air_Temperature_Mi...
5:Relative_Humidity
6:Sunshine_Duration
Overlay
Y-Axis: Real Normalized
(MaxMin)
Overlay
アプレット Marks started
インターネット


AWCI QC top - Microsoft Internet Explorer
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/AWCIhtml
Station(Bonghwa-AWS) > Month-Date(2003-3) >
Obs.Station-Item
Obs. Element
Year-Month
Bonghwa-AWS
Updating Data: 1:Air_Temperature_Ave
2003-3
Plot
Normal Mode
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
allcheck
allclear
TZ=
G(0) I(0) D(0) B(0) C(0) M(0) U(31)
Bonghwa AWS 1:Air_Temperature_Ave 2003-3
Value
Date
fill
Confirmtion(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_Ma...
3:Air_Temperature_Mi...
5:Relative_Humidity
6:Sunshine_Duration
Date (TZ=00:00)
Overlay
Y-Axis: Real Normalized
(MaxMin)
Overlay
From:
To:
Day
Hour
Minute
Flag/Value
Change to
Update
(Tz=00:00)
Update Flags
Update a value
Overlay button

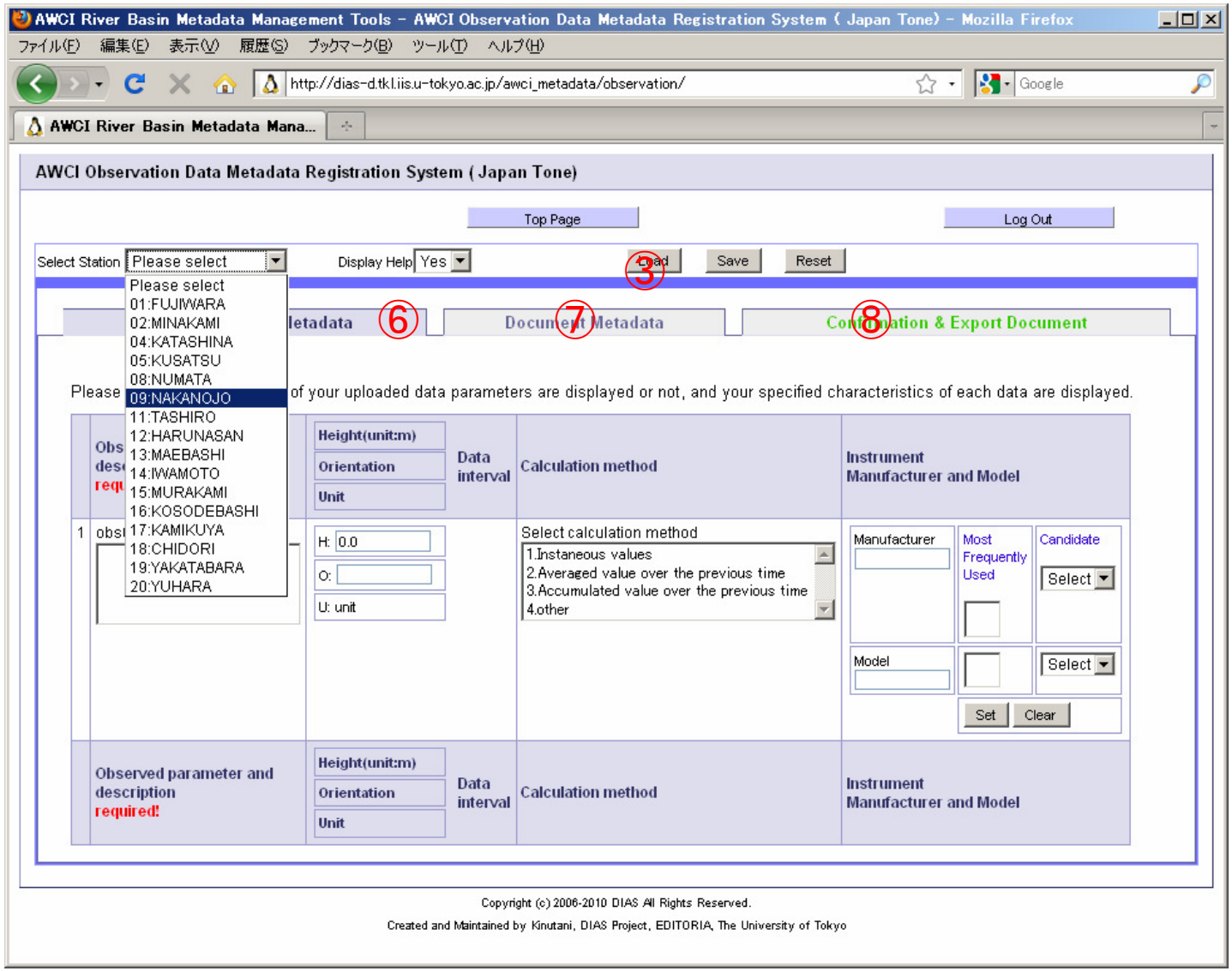
3. Input Metadata Page

Select Station ①

Load previous saved metadata③

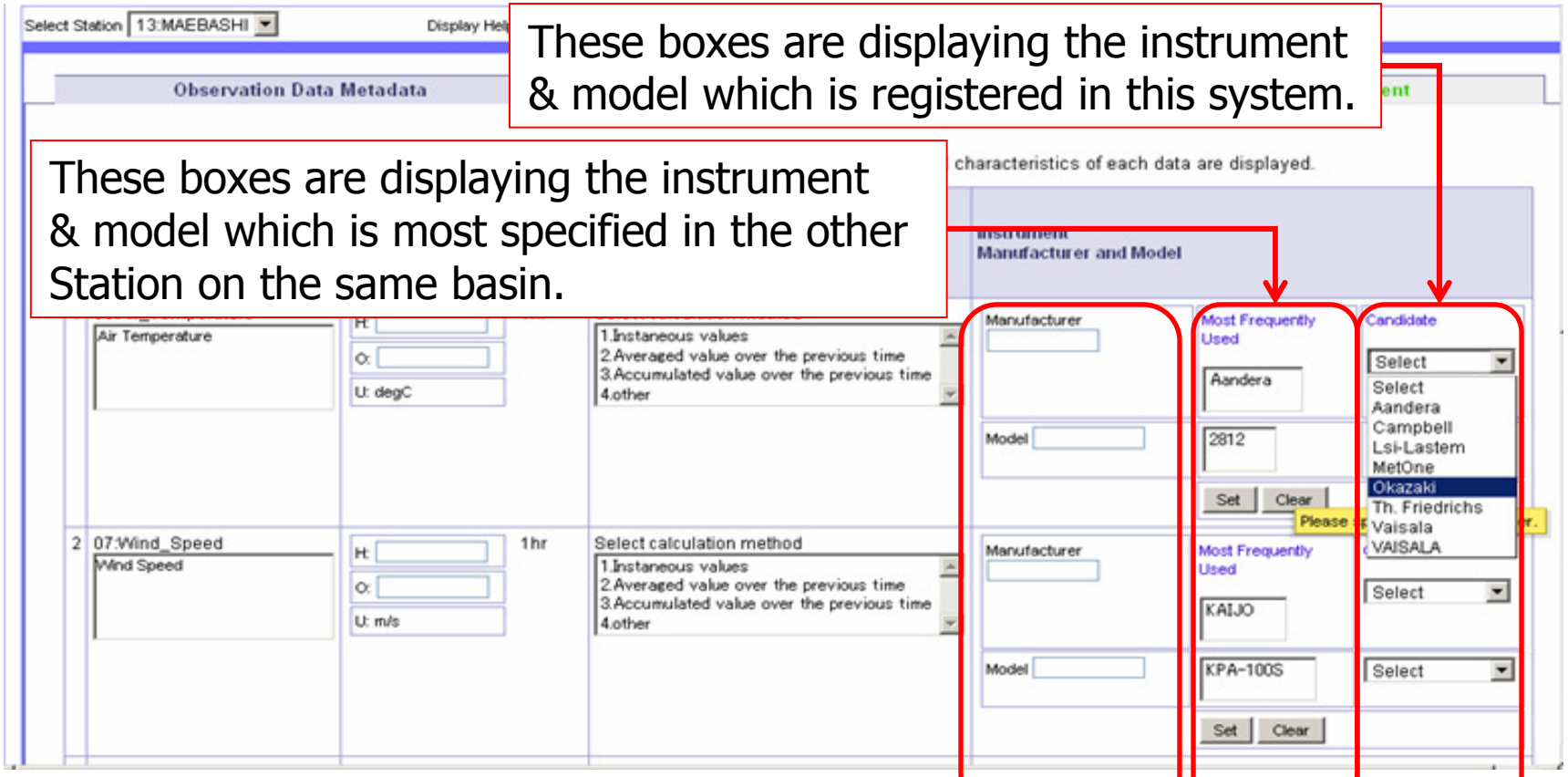
input

Observation Data Metadata ⑥ or Document Metadata ⑦



3.Input Metadata Page

Select Station ① → Load previous saved metadata③ → input → Observation Data Metadata⑦

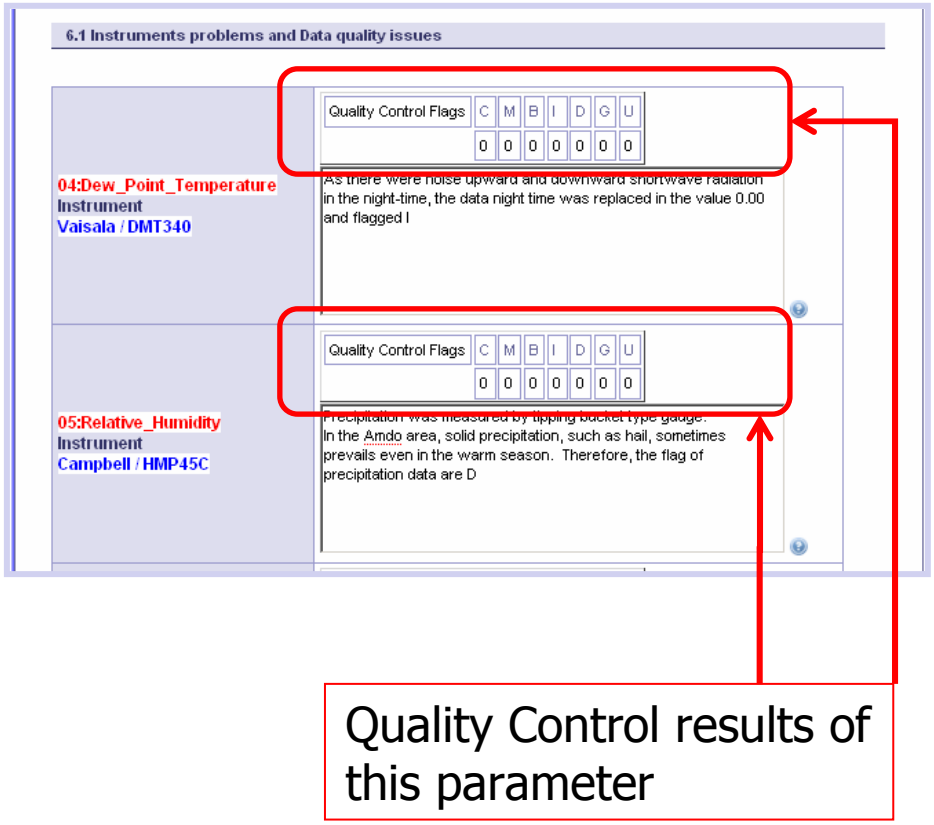


Input boxes

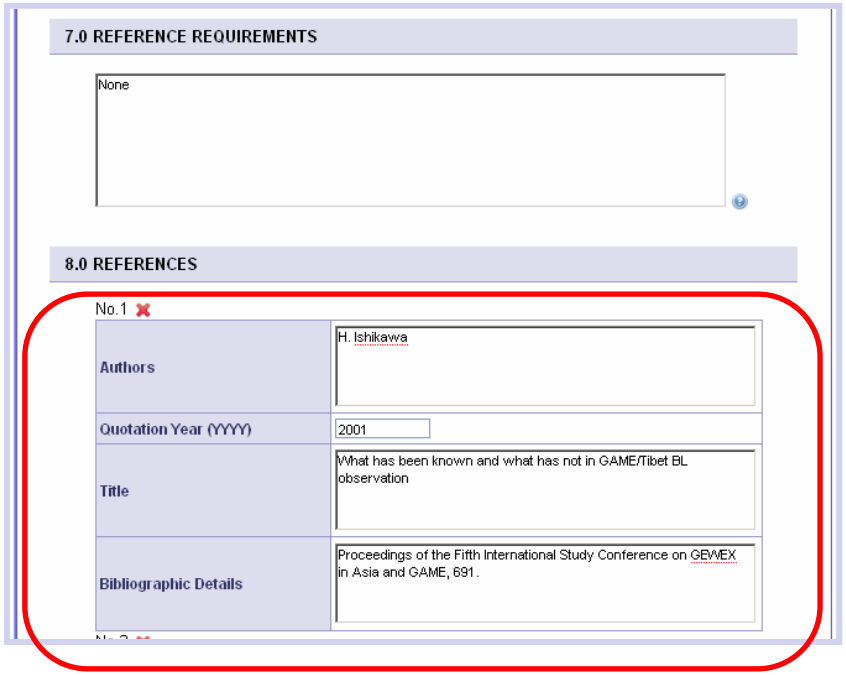
Recommendation boxes

3.Input Metadata Page

Select Station ① → Load previous saved metadata③ → input → Document Metadata⑧



Quality Control results of this parameter



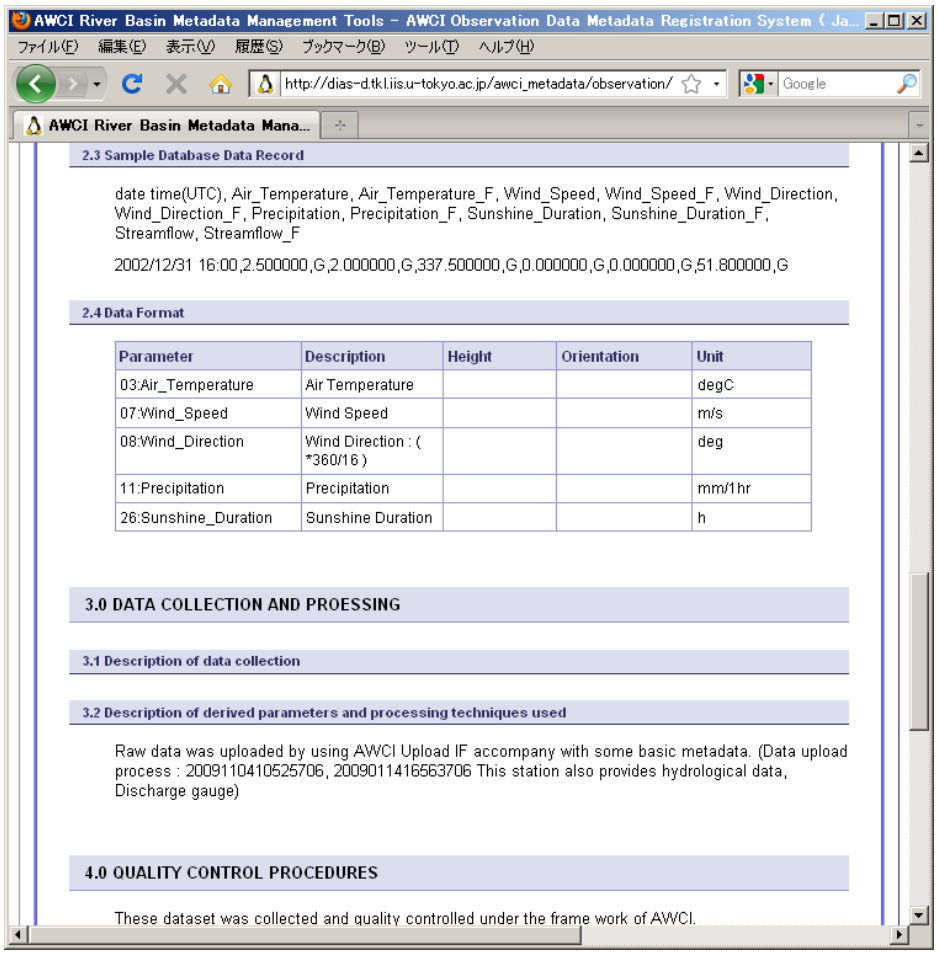
Information of the quoters who use this observation dataset

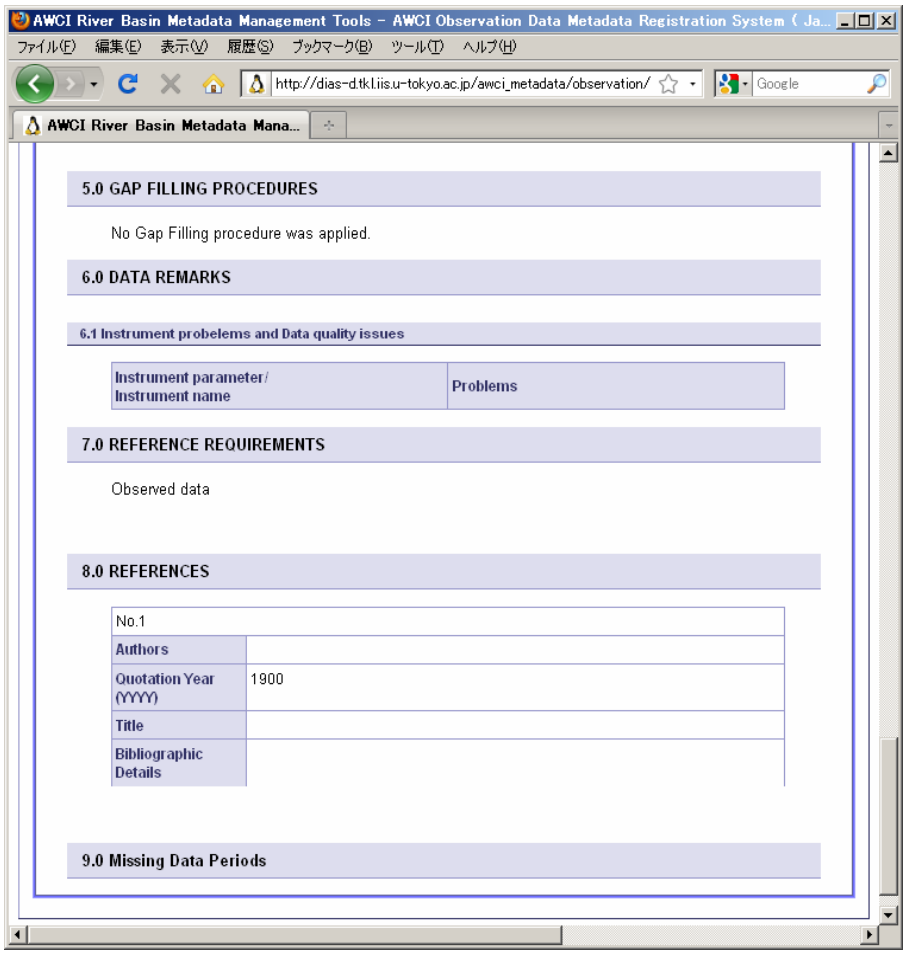
3.Input Metadata Page

Select Station①

Load previous saved metadata③

Save, Confirmation & Export Document ⑧



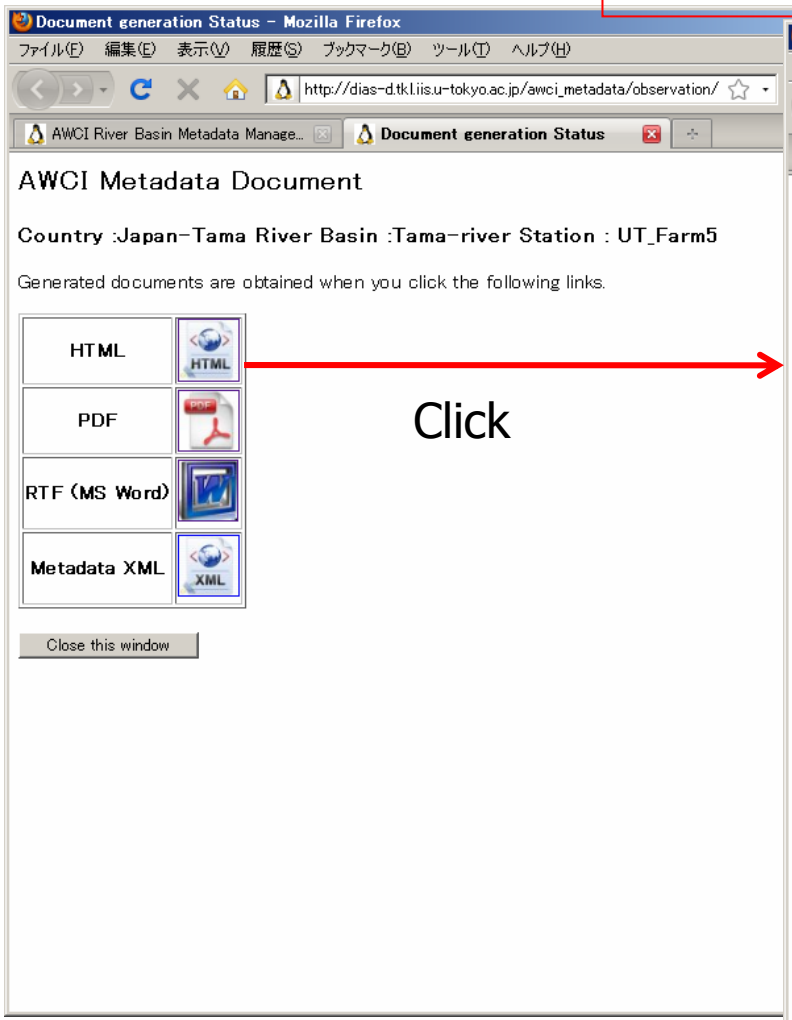


3.Input Metadata Page

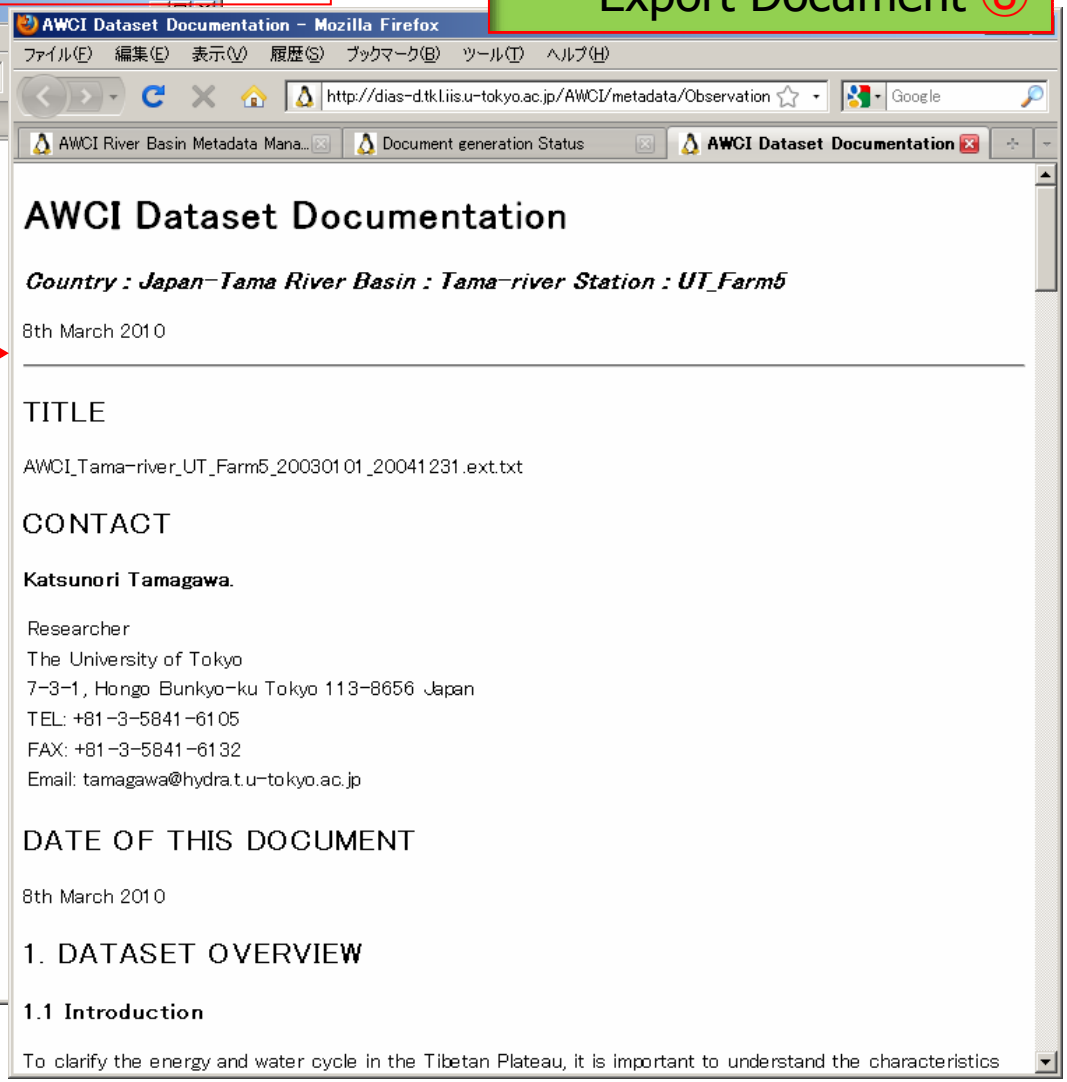
Select Station①

Load previous saved metadata③

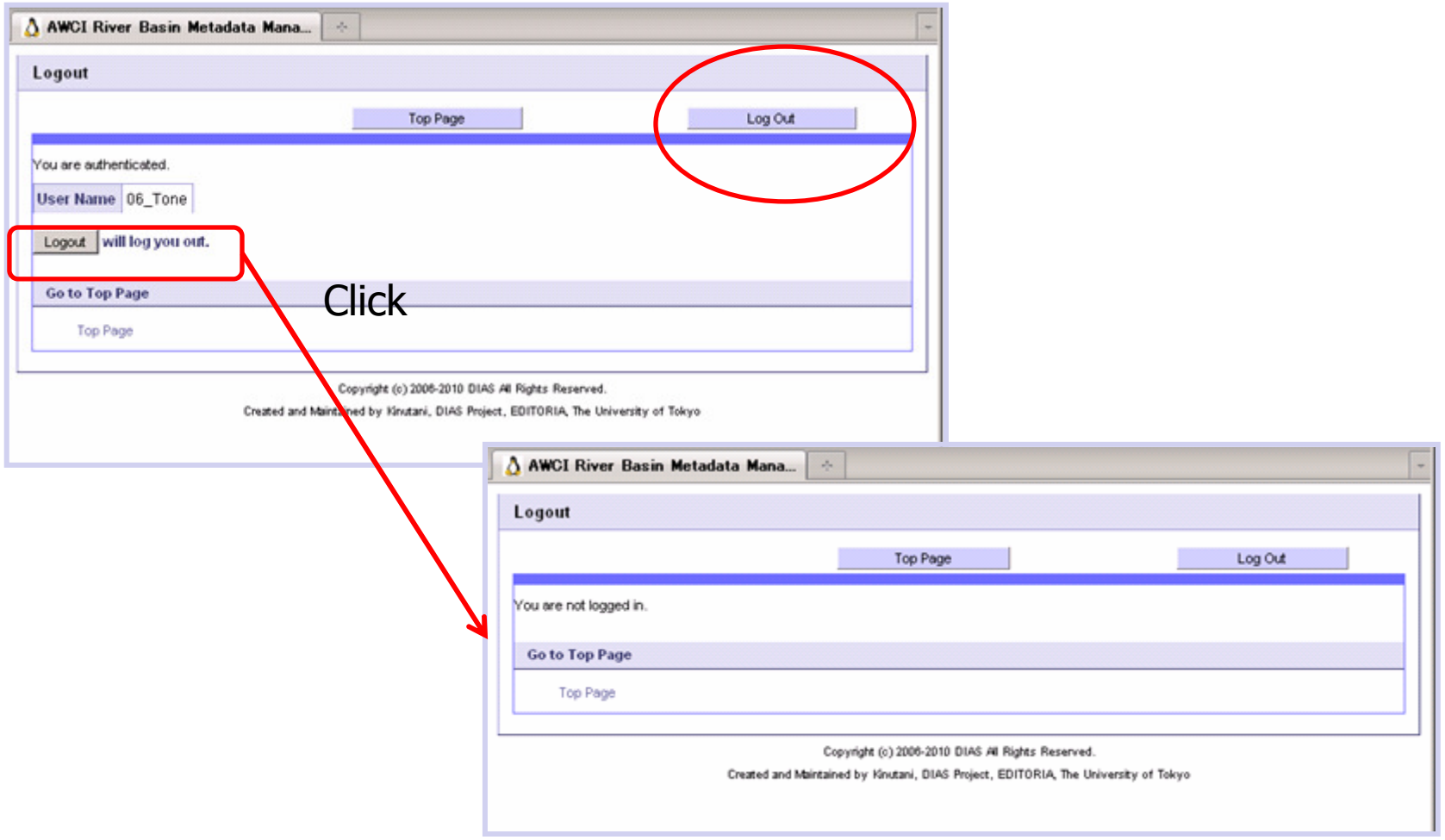
Save, Confirmation & Export Document ⑧



Click



Log Out Page


AWCI River Basin Metadata Mana...
Logout
Top Page
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