

# In-situ Data Management System for AWCI

-Data Uploading, QC, Metadata Registration,  
and Data Visualization&Downloading System-

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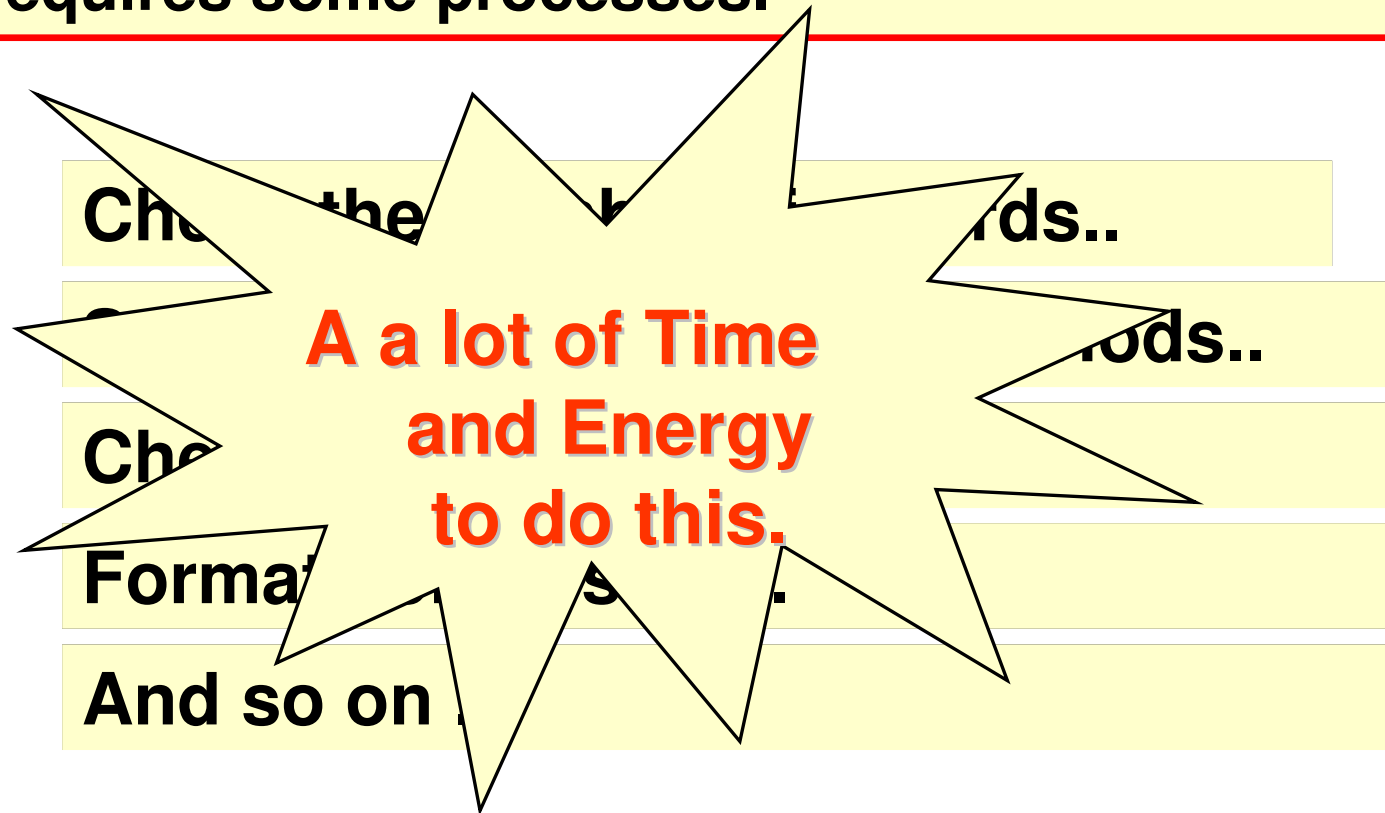
Masaru Kitsuregawa\* and Toshio Koike\*\*

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The University of Tokyo

# Background

To utilize in-situ data for any projects, user/data provider usually requires some processes.



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

- Check the data...
- Check the data...
- Check the data...
- Format the data...
- And so on...

# 4 Components of In-situ data management

## (1) Data Uploading

The AVCI Data Upload Center interface includes a login page with fields for Username and Password. A map shows the locations of various data centers. A table displays the upload status for station AVCI13D-01-1B, listing parameters like Temperature, Humidity, and Wind Speed with their respective upload dates and times.

## (3) Meta Data Registration

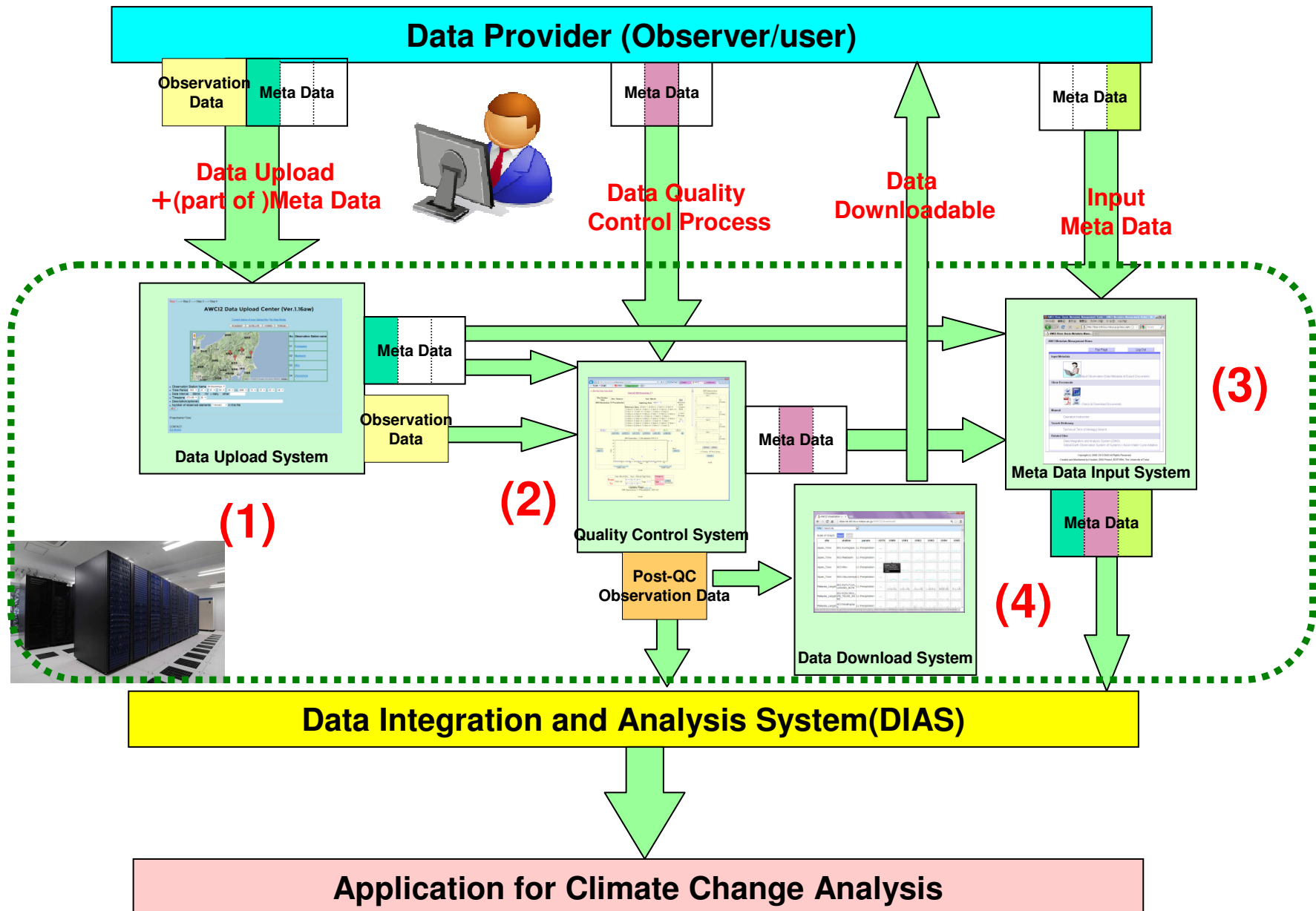
The AVCI Observation Data Metadata Registration System interface features a metadata registration form with fields for Observation Data Metadata and Document Metadata. A generated metadata document is shown, detailing the title, contact information, and a list of data parameters such as Temperature, Humidity, and Wind Speed.

## (2) Quality Controlling

The AVCI Data Quality Control interface displays data plots for various parameters, including Temperature and Humidity. A table shows the quality control results for station AVCI13D-01-1B, listing parameters like Temperature, Humidity, and Wind Speed with their respective quality control status and dates.

## (4) Data Downloading

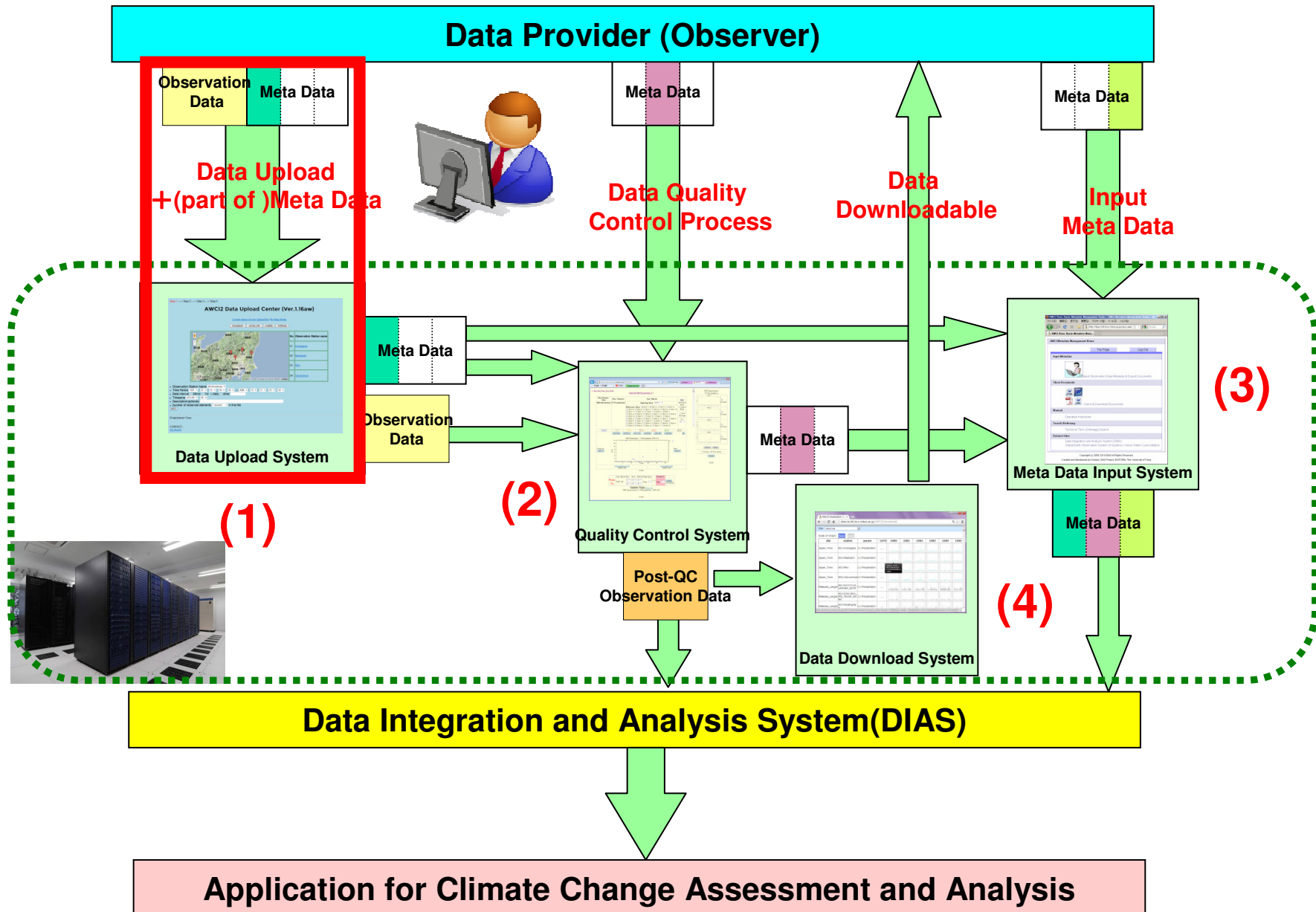
The AVCI Data Download interface shows a search results table with columns for site, station, param, and year. A data download plot is shown for station AVCI13D-01-1B, displaying precipitation data for the year 2001.



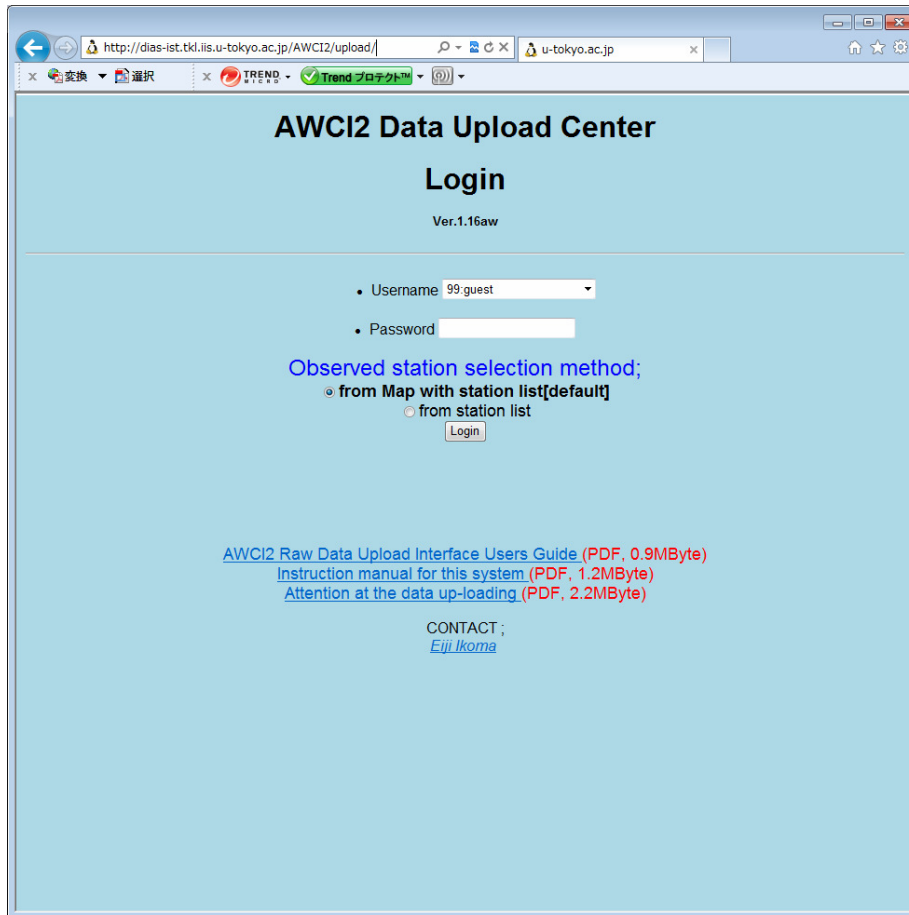
# Presentation

1. Data Upload(Tamagawa)
2. Quality Control(Tamagawa)
3. Meta-Data Input(Kinutani)
4. Data Download(Oyanagi)

# AWCI2 Observation Data **Uploading** System



# Login Page



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



# STEP1


- Observation Point(Map/List)
- Time Period
- Data Interval
- Timezone
- 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	<a href="#">Sample_Station_1</a>
02	<a href="#">Sample_Station_2</a>
03	<a href="#">Sample_Station_3</a>
04	<a href="#">Sample_Station_4</a>
05	<a href="#">Sample_Station_5</a>
06	<a href="#">Sample_Station_6</a>
07	<a href="#">Sample_Station_7</a>

- Observation Station Name 07:Sample\_Station\_7
- Time Period 2000 / 07 / 20 - 16 : 34 --- 2011 / 06 / 24 - 21 : 37
- Data Interval  30min  1hr  daily  other
- Timezone UTC+09 : 00
- Description(optional)
- Number of observed elements 2 elements in this file

---

Projectname=Guest-Project

CONTACT : [Eiji.Ikoma](mailto: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 confirm

Back NEXT \*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		

Back NEXT

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

- Observation element
  - Choose from pulldown menu
- Sensor height
- Orientation(op.)
- Unit
- Missing value
- Description(op.)

# STEP3

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

## File Upload

FILE

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

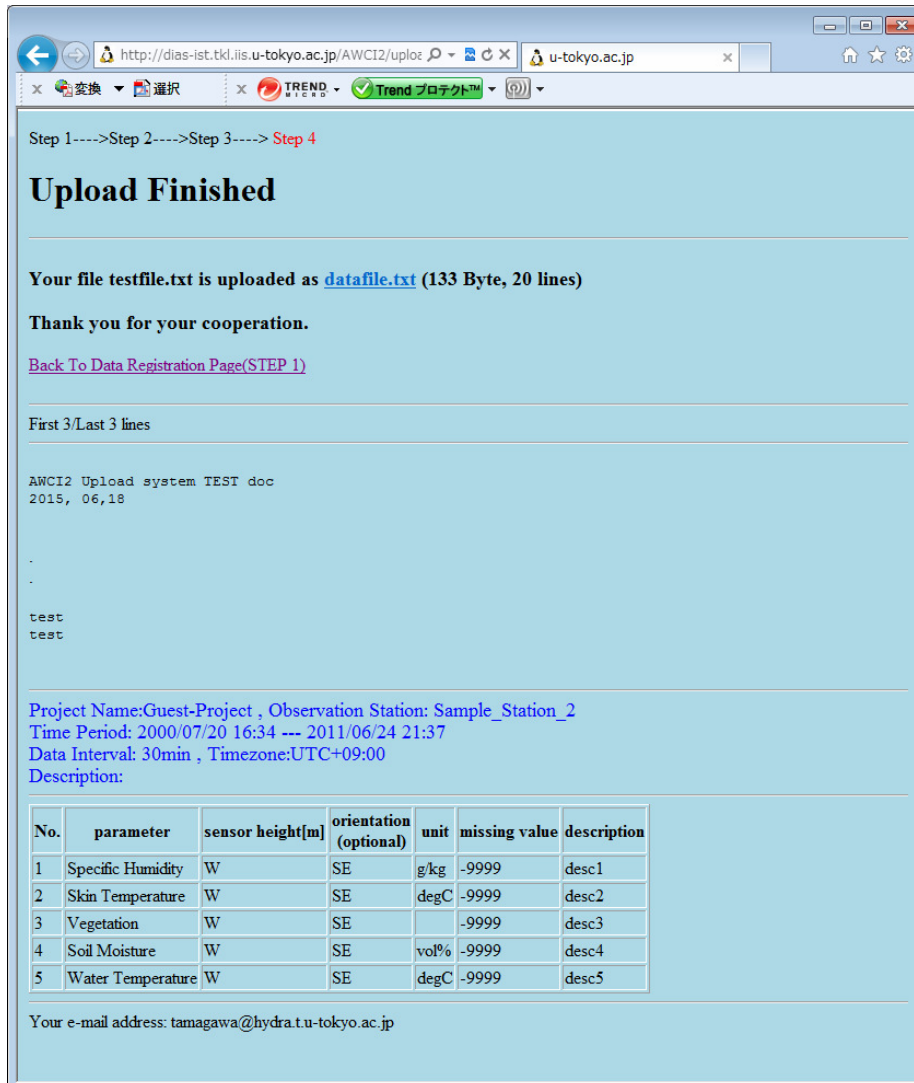
No.	parameter	sensor height	orientation (optional)	unit	missing value	description
1	Specific Humidity	W	SE	g/kg	-9999	desc1
2	Skin Temperature	W	SE	degC	-9999	desc2
3	Vegetation	W	SE		-9999	desc3
4	Soil Moisture	W	SE	vol%	-9999	desc4
5	Water Temperature	W	SE	degC	-9999	desc5

The same line parameters are displayed in pink.

CONTACT ;  
[Eiji Ikoma](#)

- Upload observation Data(File).
- Confirmation of metada inputted at STEP1,2.

# 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 uploaded file
  - contents of the file (first/last 3lines and all lines when you require)
  - All metadata inputted at STEP1,2,3

## After STEP 4

- Our system send the confirmation message to user by e-mail.
- Inputted metadata are stored in our Upload system --- Observer can use at next time.
- Observation data is loaded to 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	<a href="#">txt</a>	222		<a href="#">docfile</a>	<a href="#">Delete</a>
2012/03/07 17:21:22 (+0900)	02:Sample_Station_2	2	1980/04/16 16:34	1996/01/14 21:37	<a href="#">txt</a>	225		<a href="#">docfile</a>	<a href="#">Delete</a>
2012/03/21 14:07:37 (+0900)	01:Sample_Station_1	1	1980/04/16 16:34	1996/01/14 21:37	<a href="#">txt</a>	33		<a href="#">docfile</a>	<a href="#">Delete</a>
2012/03/21 14:09:55 (+0900)	07:Sample_Station_7	1	1980/04/16 16:34	1996/01/14 21:37	<a href="#">txt</a>	33		<a href="#">docfile</a>	<a href="#">Delete</a>
2012/09/20 22:42:28 (+0900)	02:Sample_Station_2	2	2000/07/20 16:34	2011/06/24 21:37	<a href="#">txt</a>	4933	aaaaaa.txt	<a href="#">docfile</a>	<a href="#">Delete</a>
2013/04/10 14:18:04 (+0900)	05:Sample_Station_5	2	2000/07/20 16:34	2011/06/24 21:37	<a href="#">txt</a>	3206	awc12- project.txt	<a href="#">docfile</a>	<a href="#">Delete</a>
2013/06/12 12:19:09 (+0900)	02:Sample_Station_2	5	2000/07/20 16:34	2011/06/24 21:37	<a href="#">txt</a>	133	testfile.txt	<a href="#">docfile</a>	<a href="#">Delete</a>

[Eiji Ikoma](#)

- Download each/all data
- Check meta-data
- Delete uploaded data

## Data Archiving Status of Each Country (as of 130618)



Station Name	Data Uploading	Quality Controlling	Metadata Registration	
<b>Bangladesh</b>	Complete			
<b>Bhutan</b>	Complete			
<b>Cambodia</b>	Complete			
<b>India</b>	Complete			
<b>Indonesia</b>	Complete			
<b>Japan</b>	Complete			
<b>Korea</b>	Ongoing			
<b>Lao PDR</b>	Ongoing			
<b>Malaysia</b>	Complete			
<b>Mongolia</b>	Complete			
<b>Myanmar</b>	Complete			
<b>Nepal</b>	Complete			
<b>Pakistan</b>	Complete			
<b>Philippines</b>	Complete			
<b>Sri Lanka</b>	Complete			
<b>Thailand</b>	Complete			
<b>Uzbekistan</b>	Complete			
<b>Vietnam</b>	Complete			

# Data Upload System (Summary)

- Observers can upload observation data and input some Metadata on Web Interface consisted of 4 steps.
- This system has lots of function which **reduce** the complicatedness of upload process
- Users can manage their own uploaded data

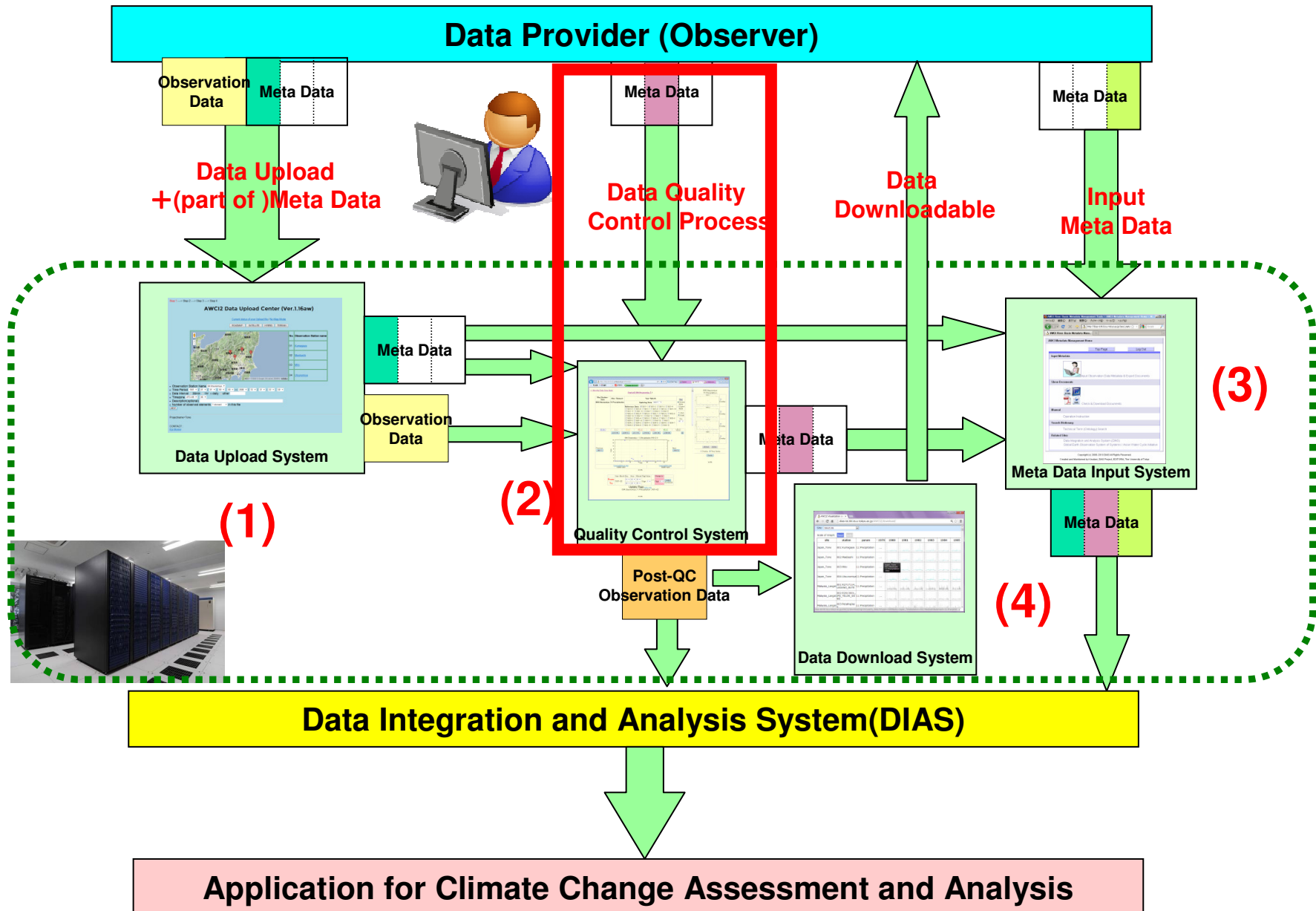


# Presentation

1. Data Upload(Tamagawa)
2. Quality Control(Tamagawa)
3. Meta-Data Input(Kinutani)
4. Data Download(Oyanagi)



# AWCI Data **Quality Control** System



# Our Data Quality Control System

- First version of our QC system was born in 2002.
- Ver.0.x(2002-2003) → Ver.1(2004-2005)  
→ Ver.2(2005-2006) → Ver.3(2007-)
- Web based UI, Easy-to-use and light operation
- Post-QC Data Download, Progress management system is also available
- Ver 3.05a are now running for AWCI2(2012-)

Browser address bar: <http://dias-ist.tkl.iis.u-tokyo.ac.jp/AWC12/QC/>

Browser menu: 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)

Browser toolbar: お気に入り | AWC12 QC top | Home | RSS | Mail | Print | ページ(P) | セーフティ(S) | ツール(O) | Help

# AWC12 Data Online Visualization and Modifying System

Version 3.05a

User:

Password:

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

Browser address bar: <http://dias-ist.tkl.iis.u-tokyo.ac.jp/AWC12/QC/>

Navigation: -->Monthly/Daily Data Mode

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
			<input checked="" type="radio"/> Java <input type="radio"/> Image
			TZ= 00 ▾

Ver.306a

**Reference Window**

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

Version 3.05a  
**Data Plot window**

**Update Window**  
**Data Update window**

*Eiji Ikoma*

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

Station( 004:Utsunomiya ) >

Obs.Station-Item	Obs. Element	Year-Month
004:Utsunomiya	11:Precipitation	Updating Data: 1901-1

Reference Data:  1901-1  1901-2  1901-3  1901-4  
 1901-5  1901-6  1901-7  1901-8  1901-9  1901-10  
 1901-11  1901-12  1902-1  1902-2  1902-3  
 1902-4  1902-5  1902-6  1902-7  1902-8  1902-9  
 1902-10  1902-11  1902-12  1903-1  1903-2  
 1903-3  1903-4  1903-5  1903-6  1903-7  1903-8  
 1903-9  1903-10  1903-11  1903-12  1904-1  
 1904-2  1904-3  1904-4  1904-5  1904-6  1904-7  
 1904-8  1904-9  1904-10  1904-11  1904-12

Plot  
 Normal Mode  
 Expert Mode  
 Java  
 Image  
 TZ= 00

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

1/01-05 1/06-10 1/11-15 1/16-20 1/21-25 1/26-31 All

004:Utsunomiya - 11:Precipitation 1901-1 0

Next: 1901-2

Download(Without flag) (GAME-AAN) Download(With flag) (GAME-AAN)

Ver.3.05a

004:Utsunomiya , 11:Precipitation , 1901-01

Update Flags Update a value

From:	Year-Month	Day	Hour	Minute	Flag/Value	Change to
To:	1901-01	31	23	59	Flag= U	Flag= G

Update (Tz=00:00)

Ver.3.05a

004:Utsunomiya 11:Precipitation

1901-1 1901-2 1904-9 1909-1

Overlay Overlay Overlay Overlay

allcheck allclear

Overlay Time Series

Overlay

Ver.3.05a

Update the Flag

# *Quality control flag definitions*

## Flag Definitions

**G: Good**

**I : Interpolated**

**D: Dubious/Questionable**

**B: Bad**

**C: minus precipitation or Abnormal value**

**M: Missing**

**U: Unchecked**



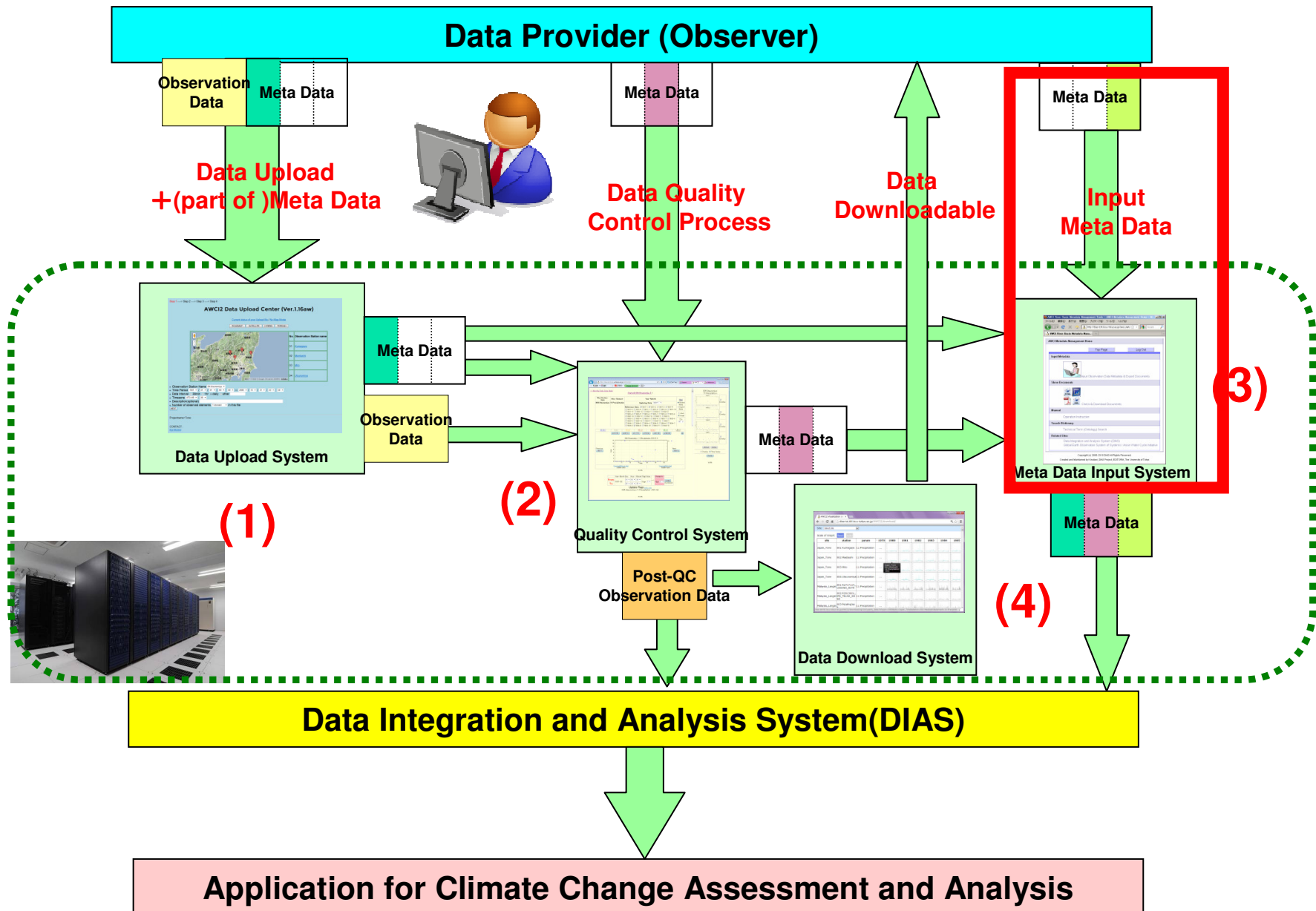
## Data Archiving Status of Each Country (as of 130618)



Station Name	Data Uploading	Quality Controlling	Metadata Registration	
<b>Bangladesh</b>	Complete	Ongoing		
<b>Bhutan</b>	Complete	Ongoing		
<b>Cambodia</b>	Complete	Ongoing		
<b>India</b>	Complete	Ongoing		
<b>Indonesia</b>	Complete	Ongoing		
<b>Japan</b>	Complete	Complete		
<b>Korea</b>	Ongoing			
<b>Lao PDR</b>	Ongoing			
<b>Malaysia</b>	Complete	Ongoing		
<b>Mongolia</b>	Complete	Ongoing		
<b>Myanmar</b>	Complete	Ongoing		
<b>Nepal</b>	Complete	Ongoing		
<b>Pakistan</b>	Complete	Ongoing		
<b>Philippines</b>	Complete	Ongoing		
<b>Sri Lanka</b>	Complete	Ongoing		
<b>Thailand</b>	Complete	Ongoing		
<b>Uzbekistan</b>	Complete	Ongoing		
<b>Vietnam</b>	Complete	Ongoing		

# Presentation

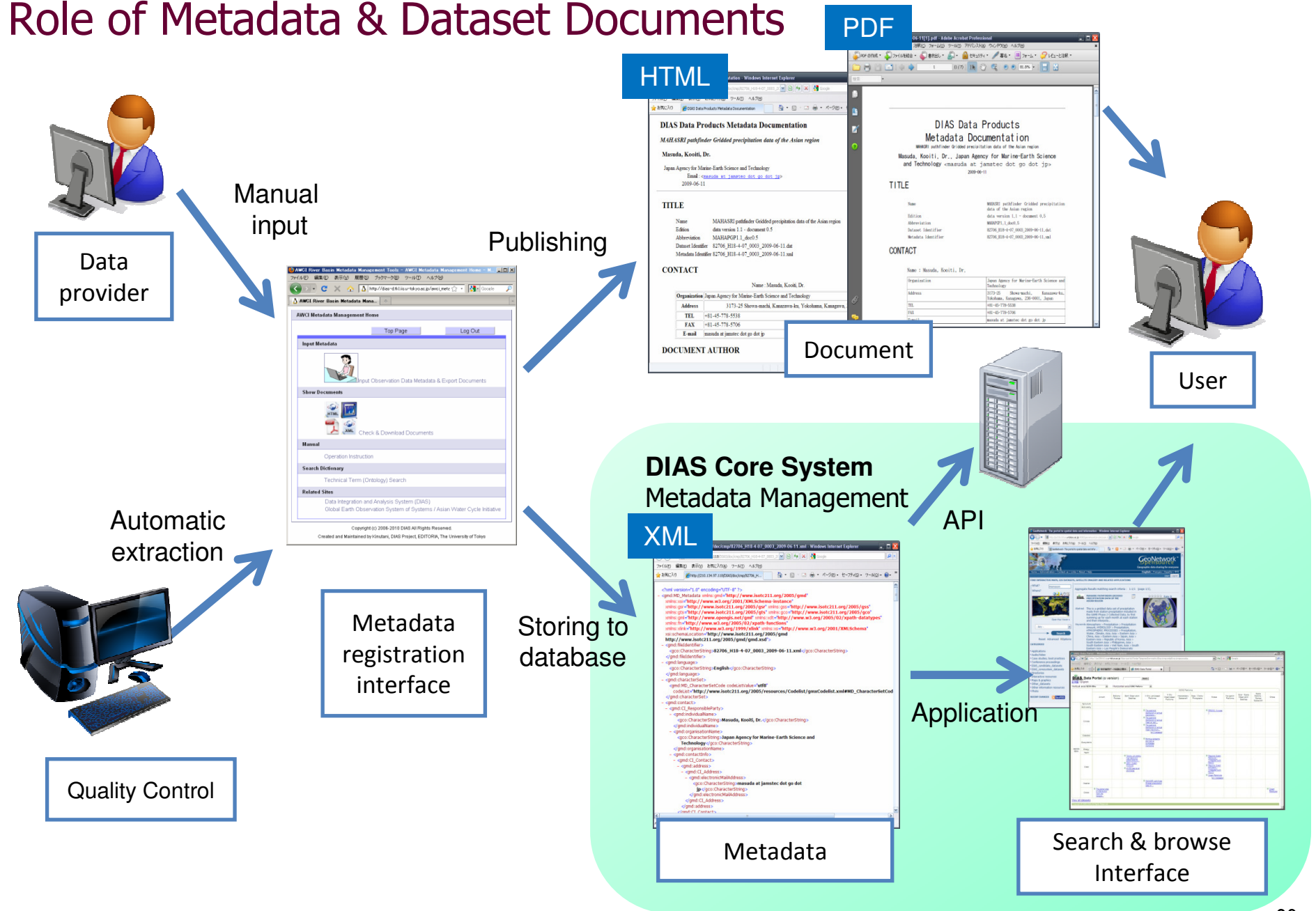
1. Data Upload(Tamagawa)
2. Quality Control(Tamagawa)
3. Meta-Data Input(Kinutani)
4. Data Download(Oyanagi)



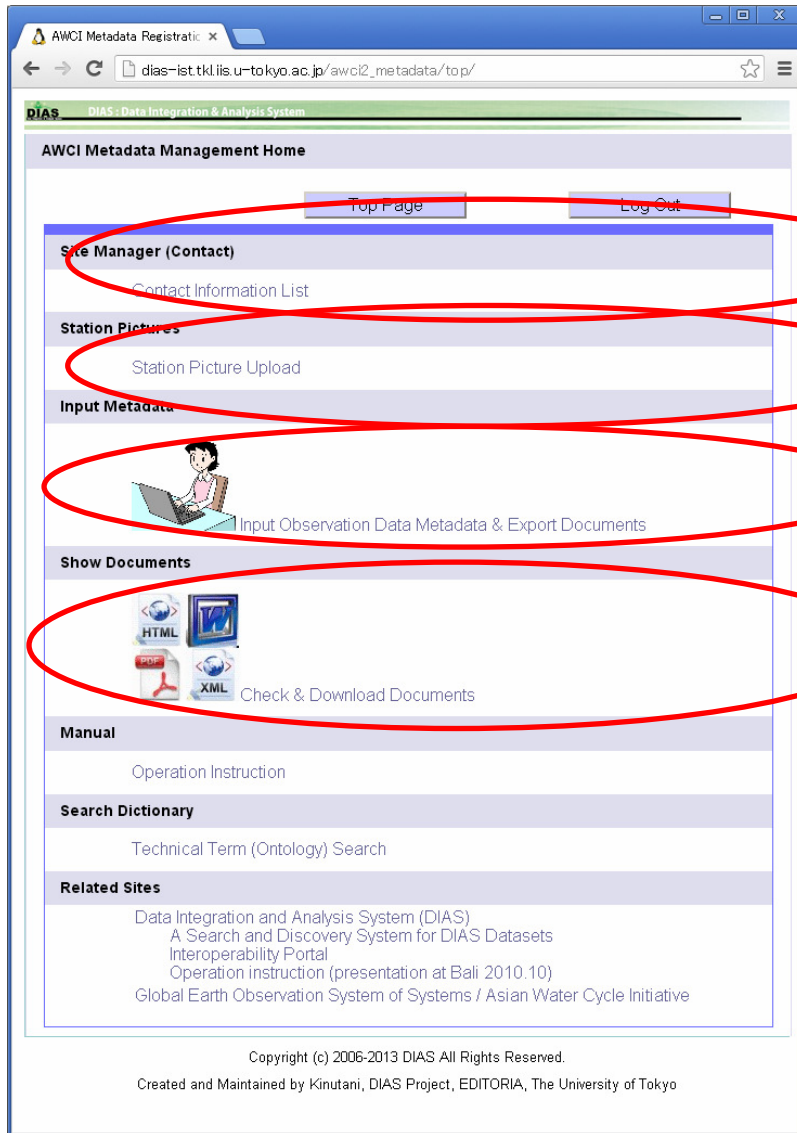


# AWCI Metadata Registration

# Role of Metadata & Dataset Documents



# Top Page [http://dias-ist.tkl.iis.u-tokyo.ac.jp/awci2\\_metadata/](http://dias-ist.tkl.iis.u-tokyo.ac.jp/awci2_metadata/)



1. Contact Information List

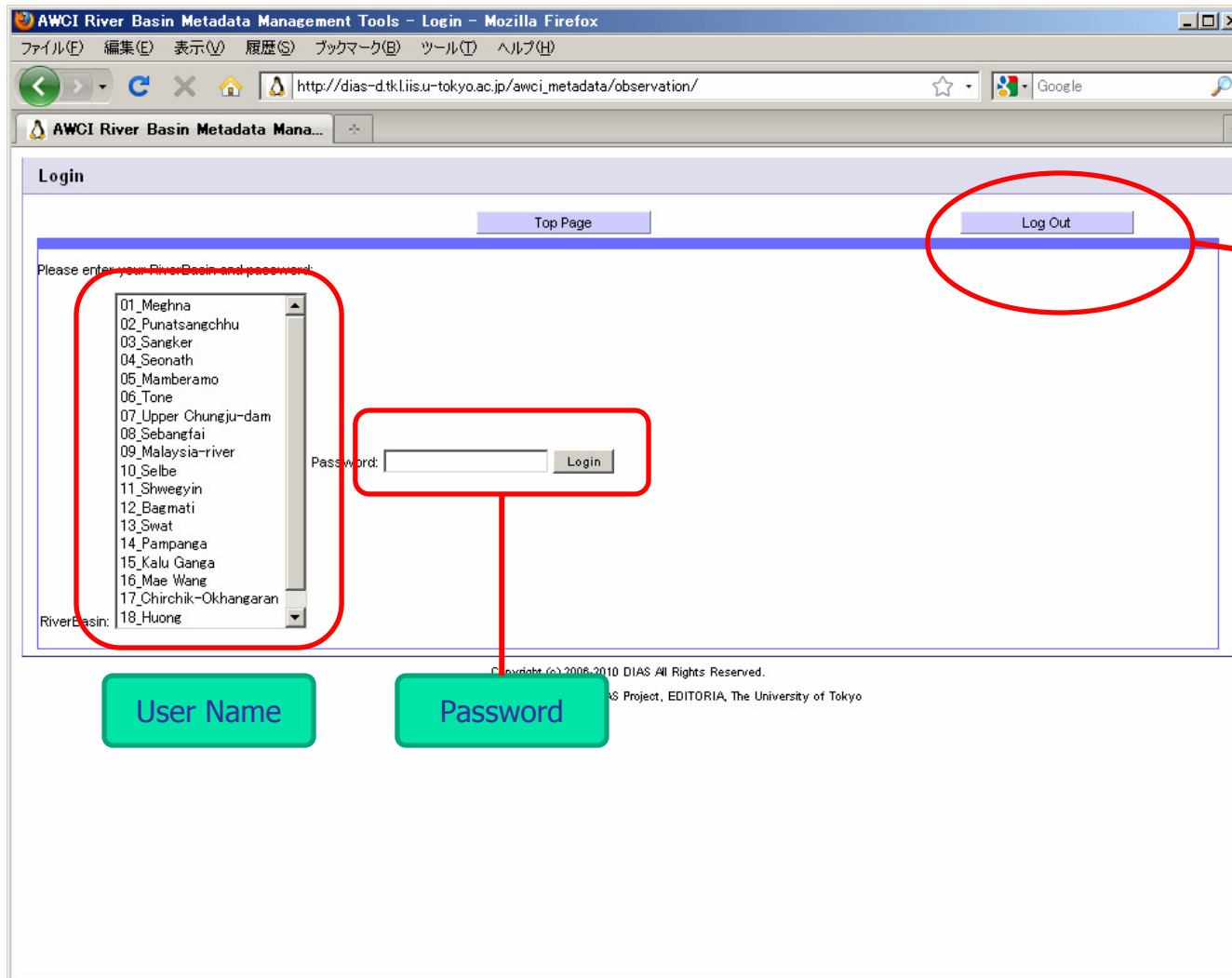
2. Station Photo Upload

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\_Sanger  
04\_Seonath  
05\_Mamberamo  
06\_Tone  
07\_Upper Chungju-dam  
08\_Sebangfai  
09\_Malaysia-river  
10\_Selbe  
11\_Shwegyin  
12\_Bagmati  
13\_Swat  
14\_Pampang  
15\_Kalu Ganga  
16\_Mae Wang  
17\_Chirchik-Okhangaran  
18\_Huone

Password:  Login

RiverBasin:

User Name

Password

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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 Chhophel	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	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.



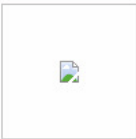
The screenshot shows a web browser window with the URL `dias-ist.tkl.iis.u-tokyo.ac.jp/awci2_metadata/picture-upload/`. The page title is "DIAS : Data Integration & Analysis System". The main heading is "AWCI Pictures upload of Japan Stations.".

Navigation buttons include "Top Page" and "Log Out".

Station selection dropdowns show:
 

- 01:Kumagaya
- 02:Maebashi
- 03:Mito
- Station 04:Utsunomiya

 The current selection is "6.Japan 1.Tone 1 01:Kumagaya".

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

**Upload Pictures**

01:Kumagaya	Photo	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"/>				

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# 3. Input Metadata Page

DIAS DIAS : Data Integration & Analysis System

AWCI Observation Data Metadata Registration System ( Japan Tone)

Top Page Log Out

Your metadata registration status is "processing".

Select Station  Display Hint

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 <b>required!</b>	Height(unit:m) Orientation Unit	Data interval	Calculation method	Instrument Manufacturer and Model
1 obs001 <input type="text"/>	H: <input type="text" value="0.0"/> O: <input type="text"/> 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 <input type="text"/> Model <input type="text"/> Most Frequently Used <input type="text"/> Candidate <input type="text"/>

Observed parameter and description  
Height(unit:m)  
Orientation

(1) Select Station ①

(2) Load previous input saved metadata ③

(3) Observation Data Metadata ⑥ or Document Metadata ⑦

# 3. Input Metadata Page

Select Station ①



Load previous saved metadata ③

input



Observation Data Metadata ⑥ or Document Metadata ⑦

AWCI Observation Data Metadata Registration System (Japan Tone)

Top Page Log Out

Select Station: Please select

Display Help: Yes

Load Save Reset

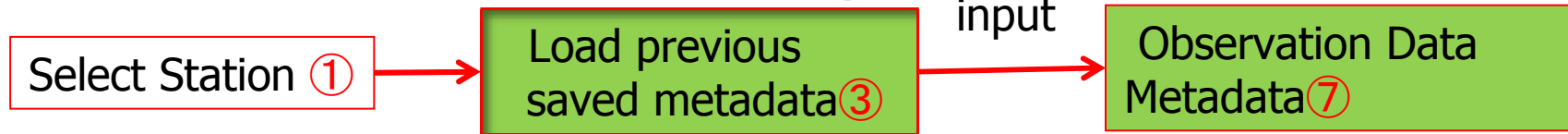
Observation Data Metadata ⑥ Document Metadata ⑦ Configuration & Export Document ⑧

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

Obs des req	Height(unit:m)	Orientation	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
Observed parameter and description required!	Height(unit:m)	Orientation	Data interval	Calculation method	Instrument Manufacturer and Model

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# 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 <b>required!</b>	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		
				Set Clear		

There are metadata input boxes of observed parameters.

# 3. Input Metadata Page



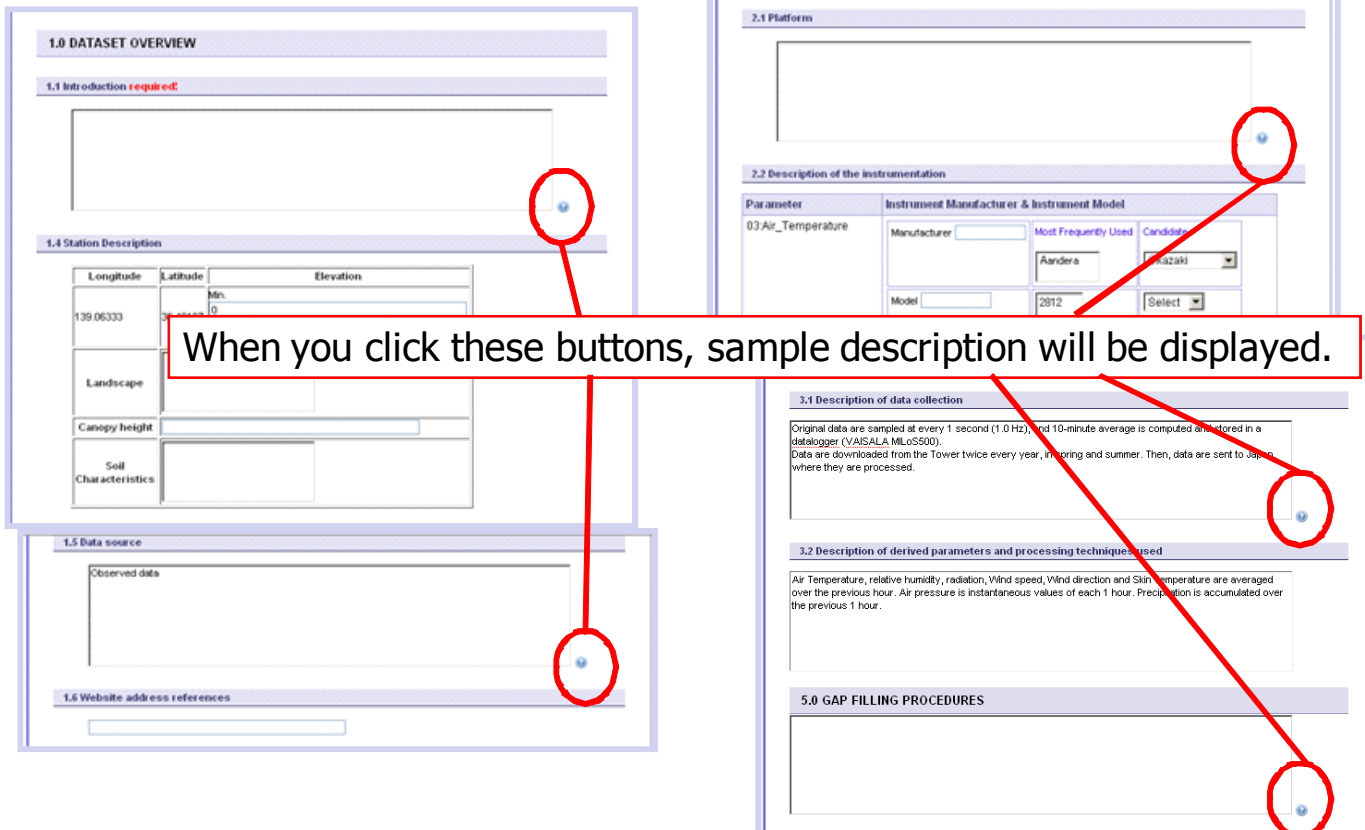
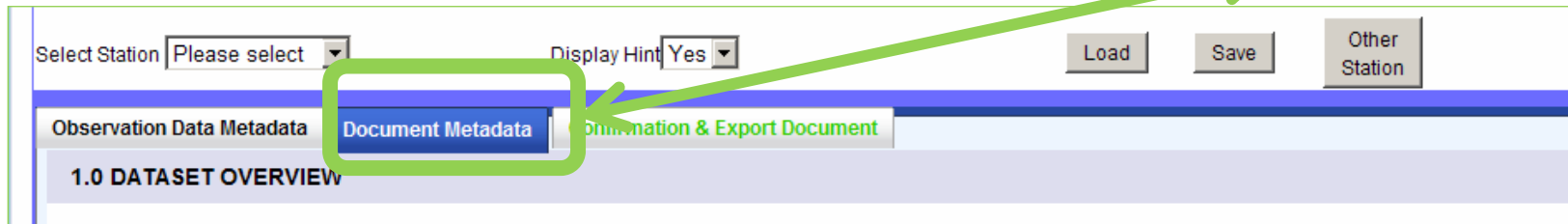
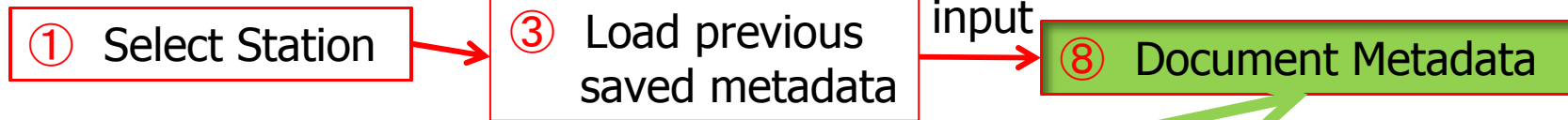
These boxes are displaying the instrument & model which is registered in this system.

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

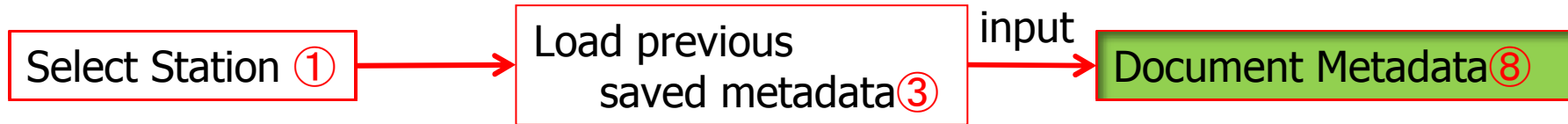
Input boxes

Recommendation boxes

# 3. Input Metadata Page



# 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

When you click this button, documents will be created. It takes 1-3 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.



# 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, 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	

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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 FAX: +81-3-5841-6132  
 Email: tamagawa@hydra.t.u-tokyo.ac.jp

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

# 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	2010/10/04 15:29	2010/10/04 15:29	2010/10/04 15:29	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?

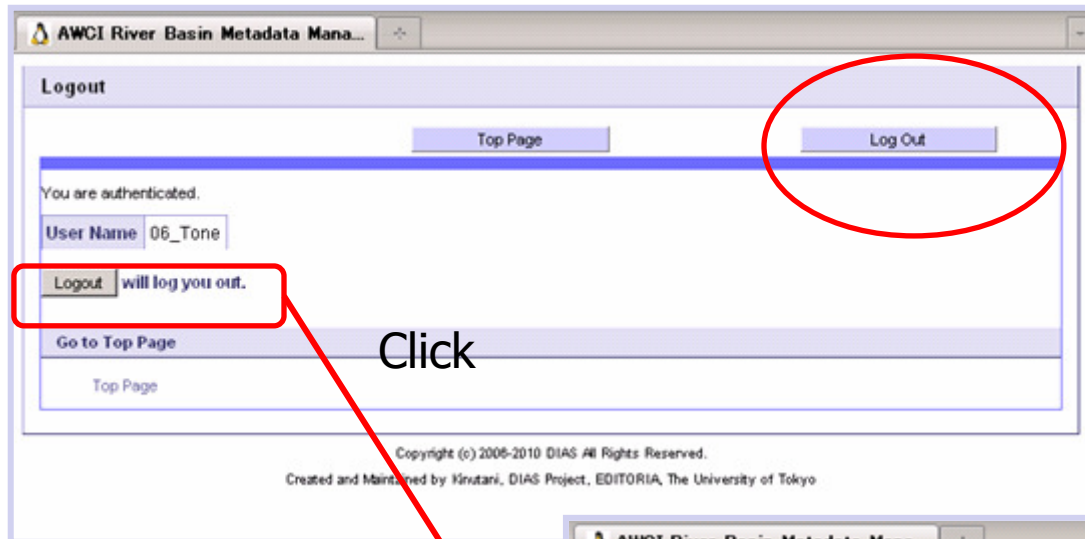
名前: AWCI\_Shwegyin\_Shwegyin\_20030101\_20041231.ext.csv  
種類: Microsoft Office Excel CSV ファイル  
発信元: dias-d.tkl.iis.u-tokyo.ac.jp

開く(O) 保存(S) キャンセル

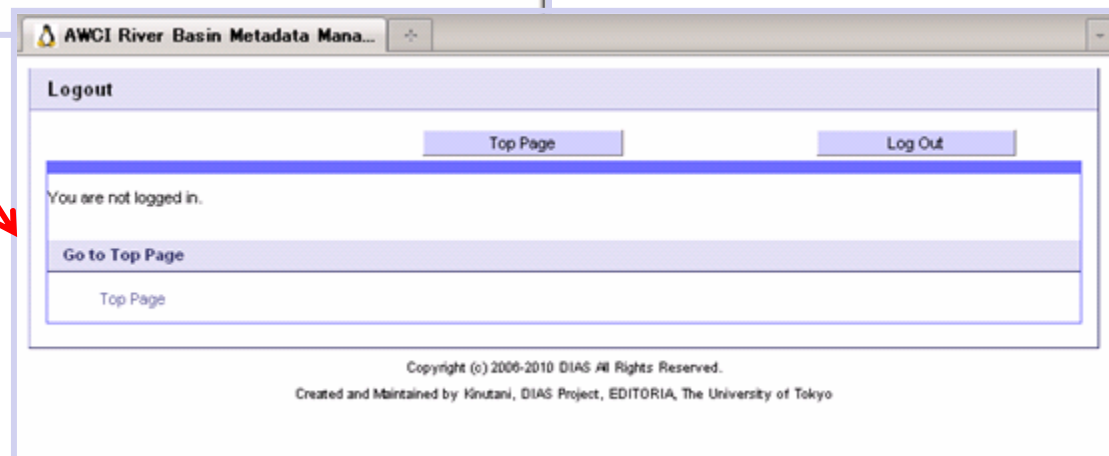
インターネットのファイルは役に立ちますが、ファイルによってはコンピューターに問題を引き起こすものもあります。発信元が信頼できない場合は、このファイルを開いたり保存したりしないでください。危険性の説明

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

# Log Out Page

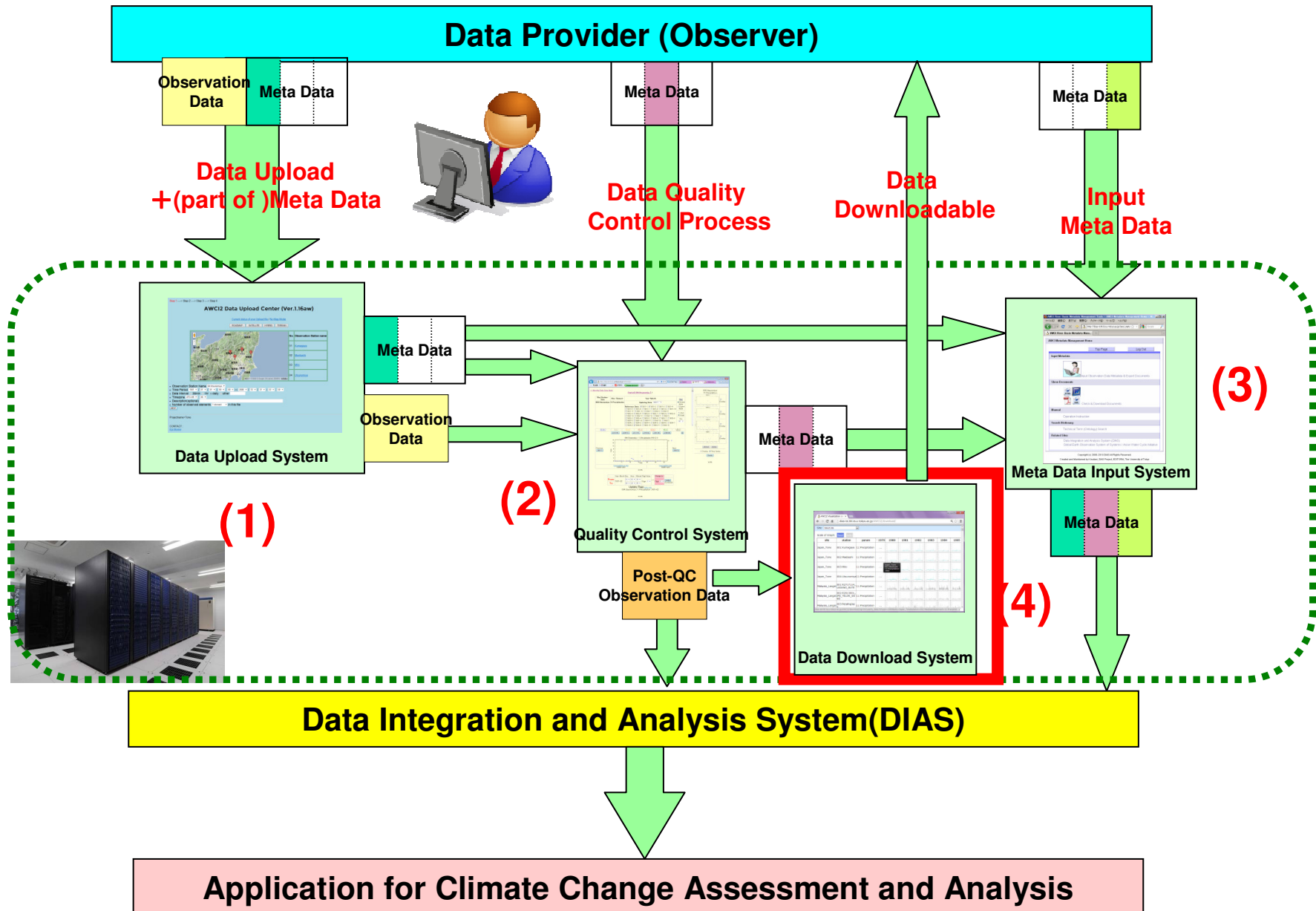


Click



# Presentation

1. Data Upload(Tamagawa)
2. Quality Control(Tamagawa)
3. Meta-Data Input(Kinutani)
4. Data Download(Oyanagi)



2013/6/25

# **AWCI2 DATA VISUALIZATION & DOWNLOADING SYSTEM VER.1.00**

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## **AWCI2 Data Visualization & Downloading System**

---

### **System features:**

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

- **Confirmed to support:**

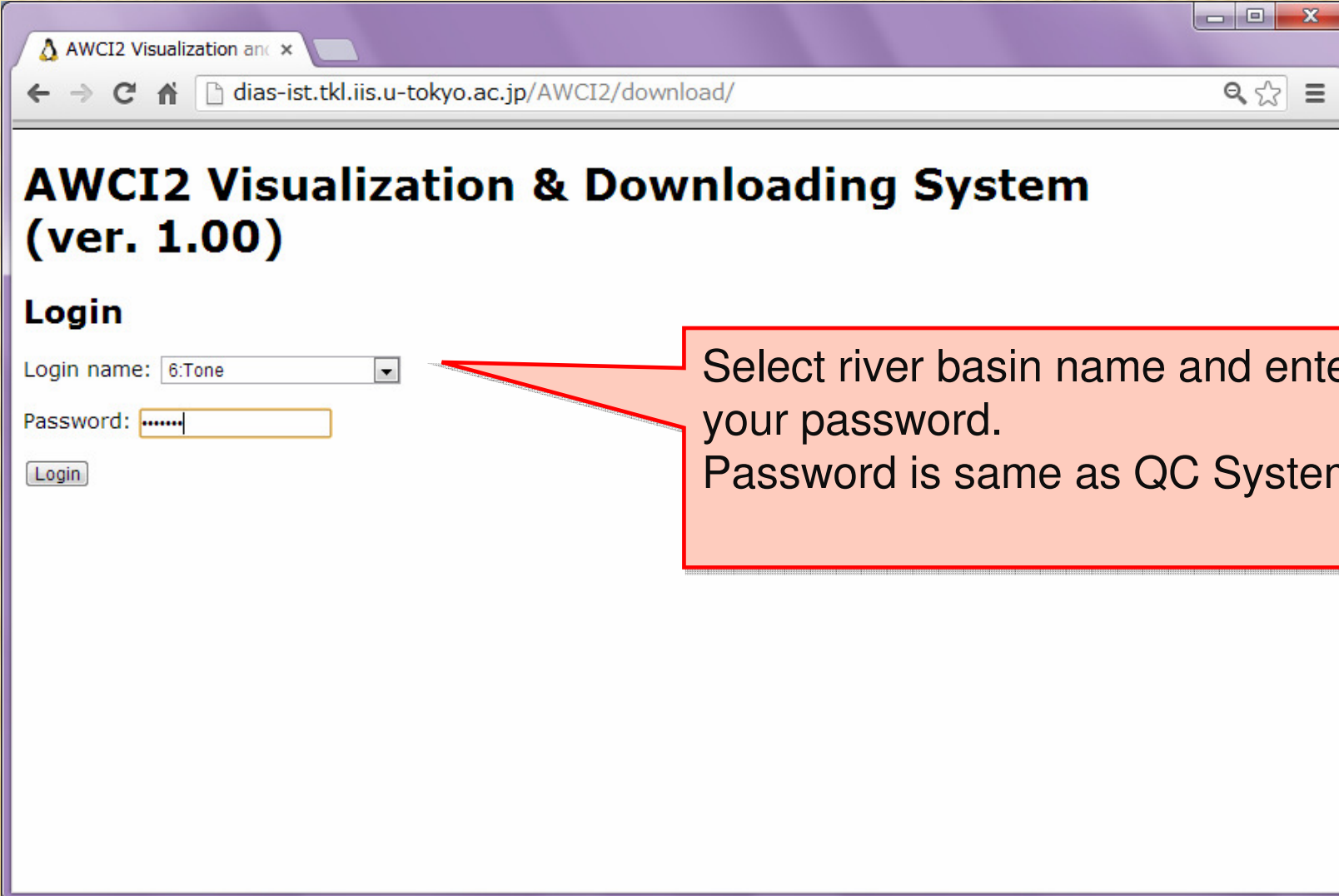
- ✓ OS : Windows 7
- ✓ Browser : IE v9 / FireFox v16 / Google Chrome v26 / Safari v5.17



# 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

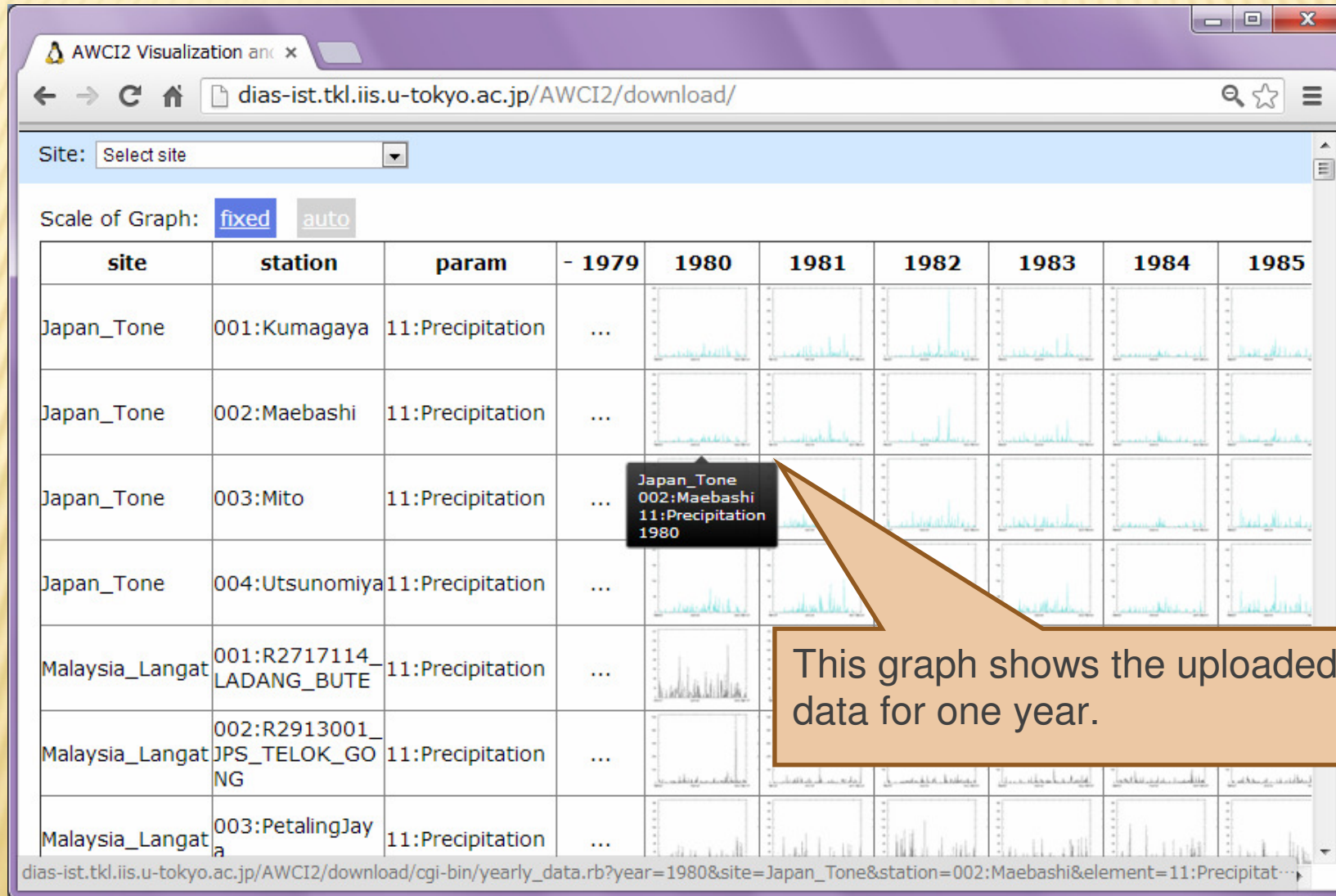
Password: .....

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 site from the pull-down menu.

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

# AWCI2 Visualization & Downloading System

## 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	- 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

Site:  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 zipped dataset file.  
Mail to:

Scale of Graph:

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	...		

Select a site, period and a group of stations.

Input your e-mail address.

# AWCI2 Visualization & Downloading System 2013/6/25 ver. 1.00

## Step. 3-1-1 Downloading a dataset

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:

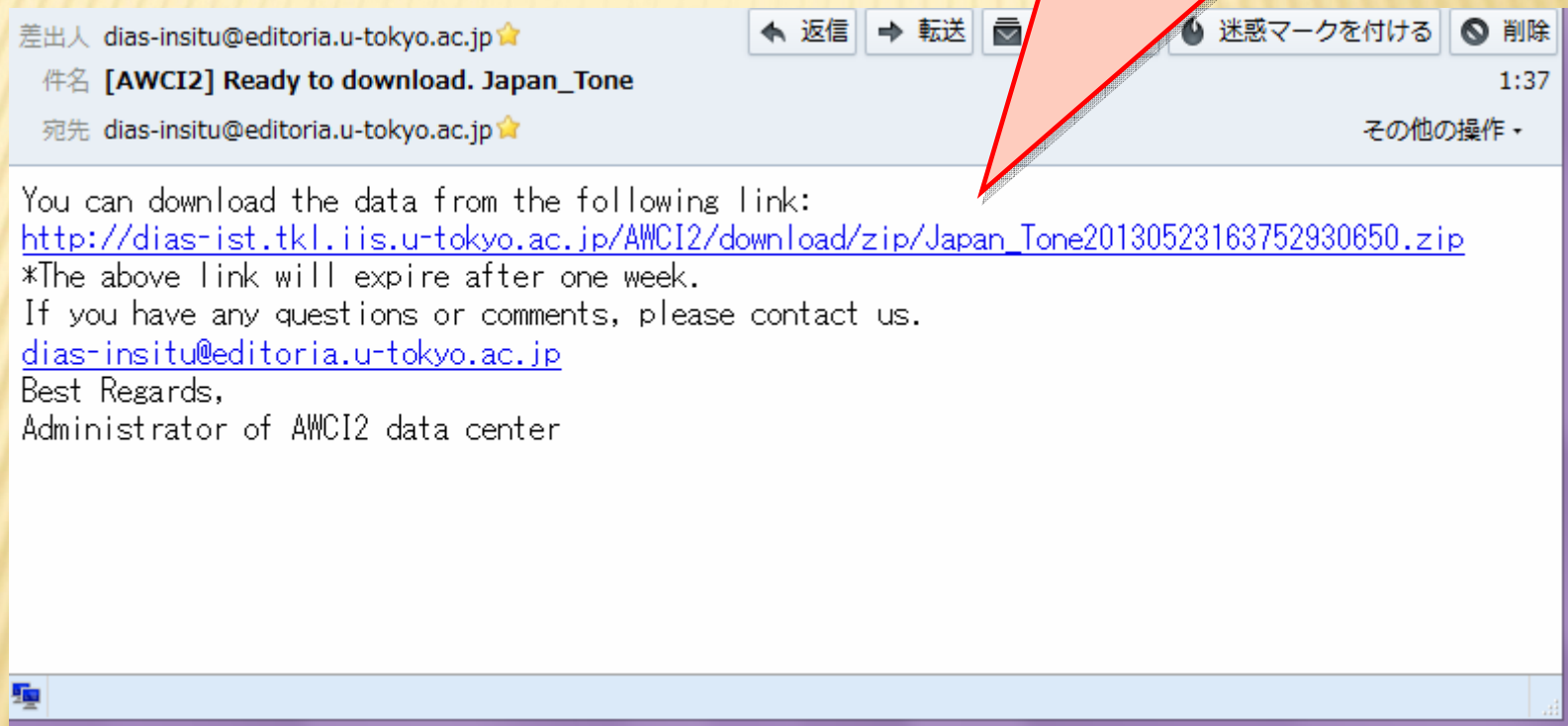
site	station	param	- 1979	1980	1982	1983	1984	1985
Japan_Tone	001:Kumagaya	11:Precipitation						
Japan_Tone	002:Maebashi	11:Precipitation	...					
Japan_Tone	003:Mito	11:Precipitation	...					
Japan_Tone	004:Utsunomiya	11:Precipitation	...					
Malaysia_Langkat	001:R2717114	11:Precipitation						

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.



## **AWCI2 Visualization & Downloading System ver. 1.00**

---

**This is the outline of our AWCI2 Data Visualization and  
Downloading System.**

**If you have any comments, questions, requests,  
Please e-mail to**



➤ [dias-insitu@editoria.u-tokyo.ac.jp](mailto:dias-insitu@editoria.u-tokyo.ac.jp)

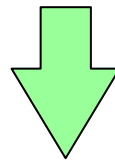
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**Thank you for your attention.**

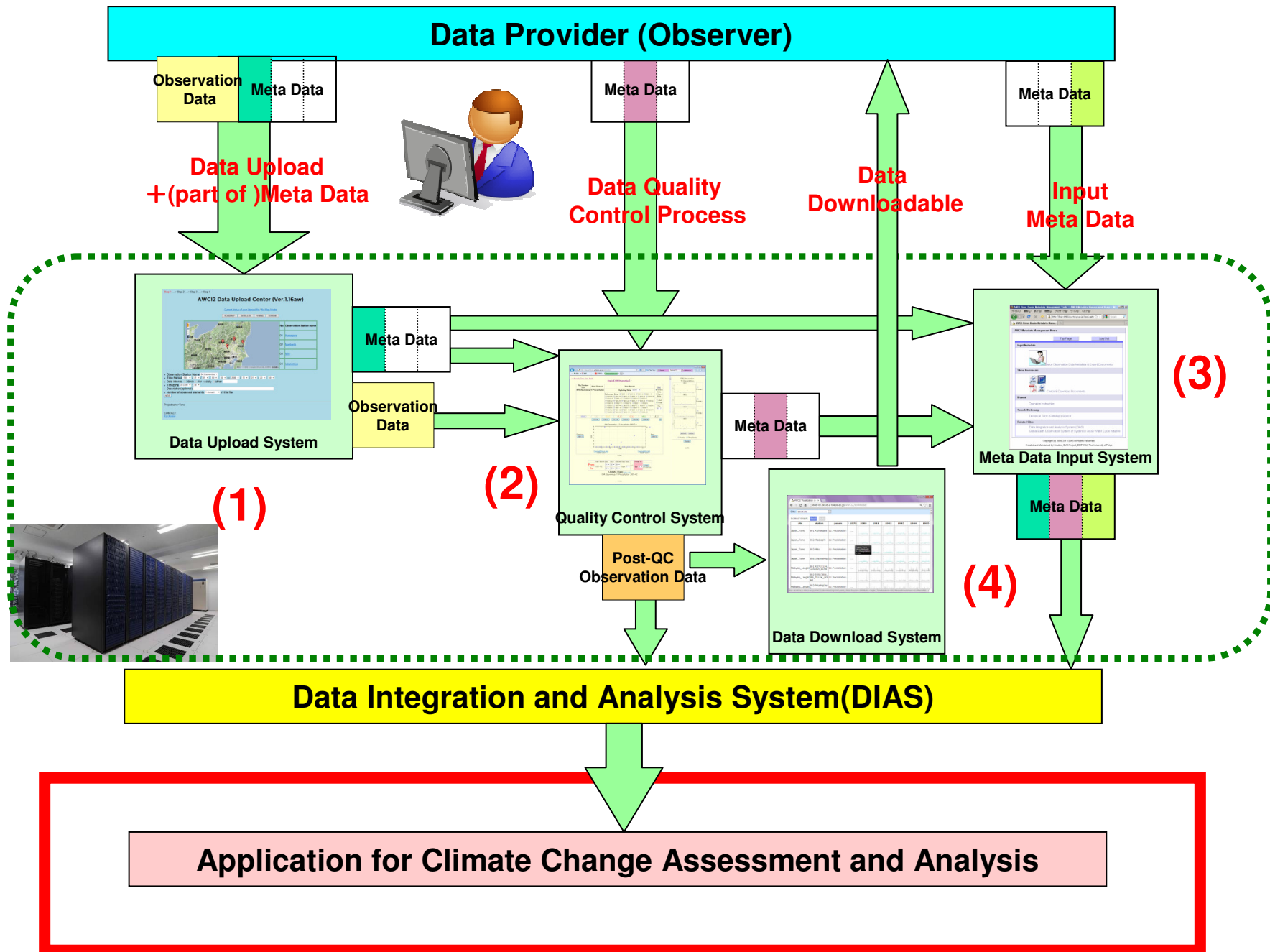


# Presentation

1. Data Upload(Tamagawa)
2. Quality Control(Tamagawa)
3. Meta-Data Input(Kinutani)
4. Data Download(Oyanagi)



CCAA

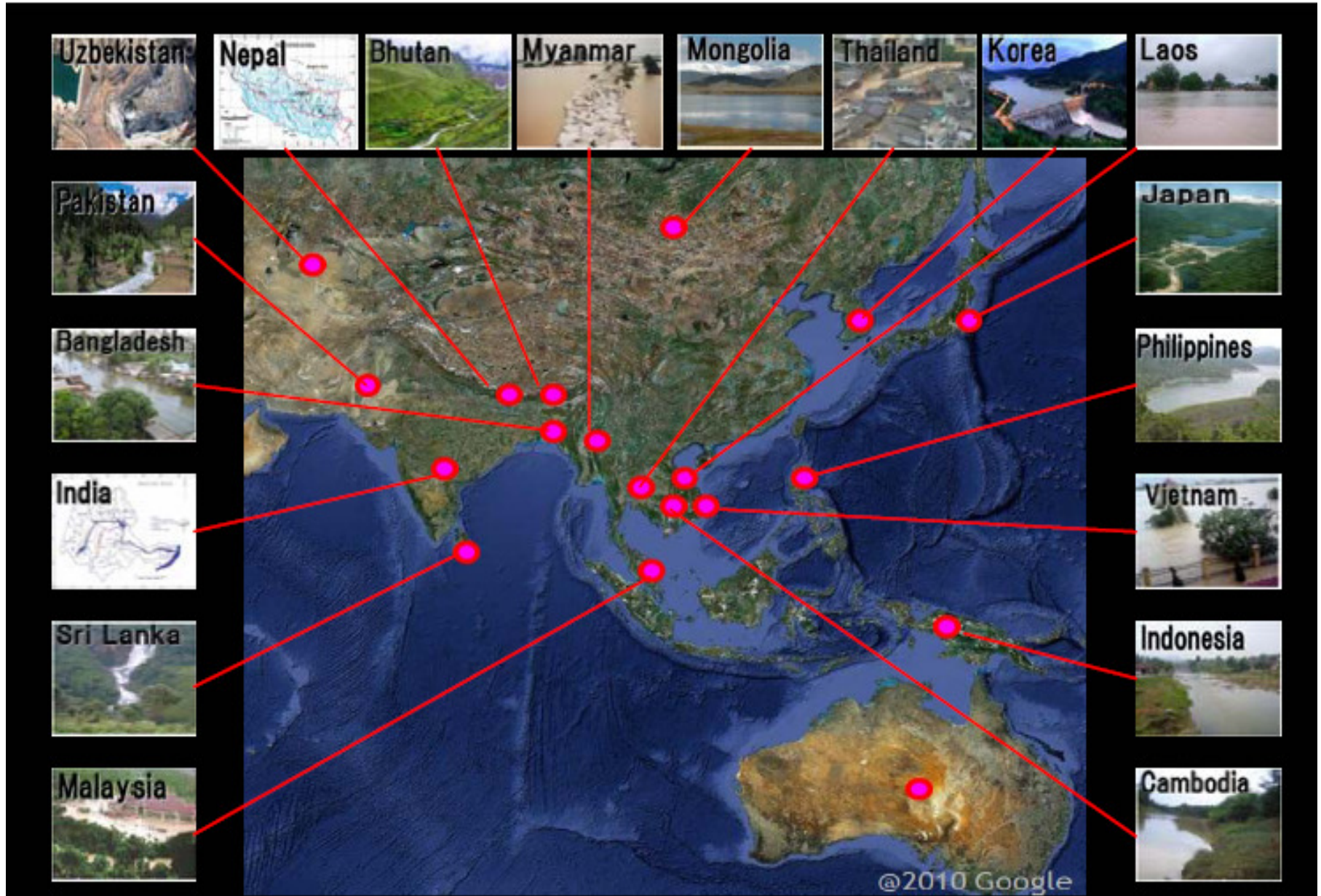




# Online Demonstration

## - Data Quality Control System

1) 20-year Long-term precipitation data from 18 countries in Asia region



# AWCI Phase2 Data parameters



1) 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	Lao PDR	Sebangfai	yes			
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

When you have some inquiry, please contact the following addresses.

In-situ data Management Staff

[dias-insitu@editoria.u-tokyo.ac.jp](mailto:dias-insitu@editoria.u-tokyo.ac.jp)