

AWCI Data Integration

-Data Upload, QC, Metadata Registration,
and Data Download System-

IIS = IT Team

Eiji Ikoma*, Hiroko KINUTANI*

Toshihiro Nemoto*, Masafumi Ono*,

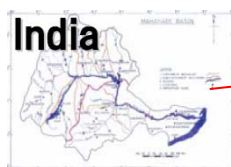
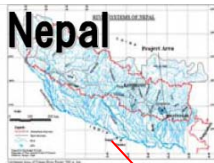
Katsunori Tamagawa**, Tetsu Ohta**

Prof. Koike's Lab.

Masaru Kitsuregawa* and Toshio Koike**

*=IIS, **=Civil Eng.

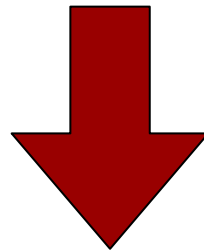
The University of Tokyo



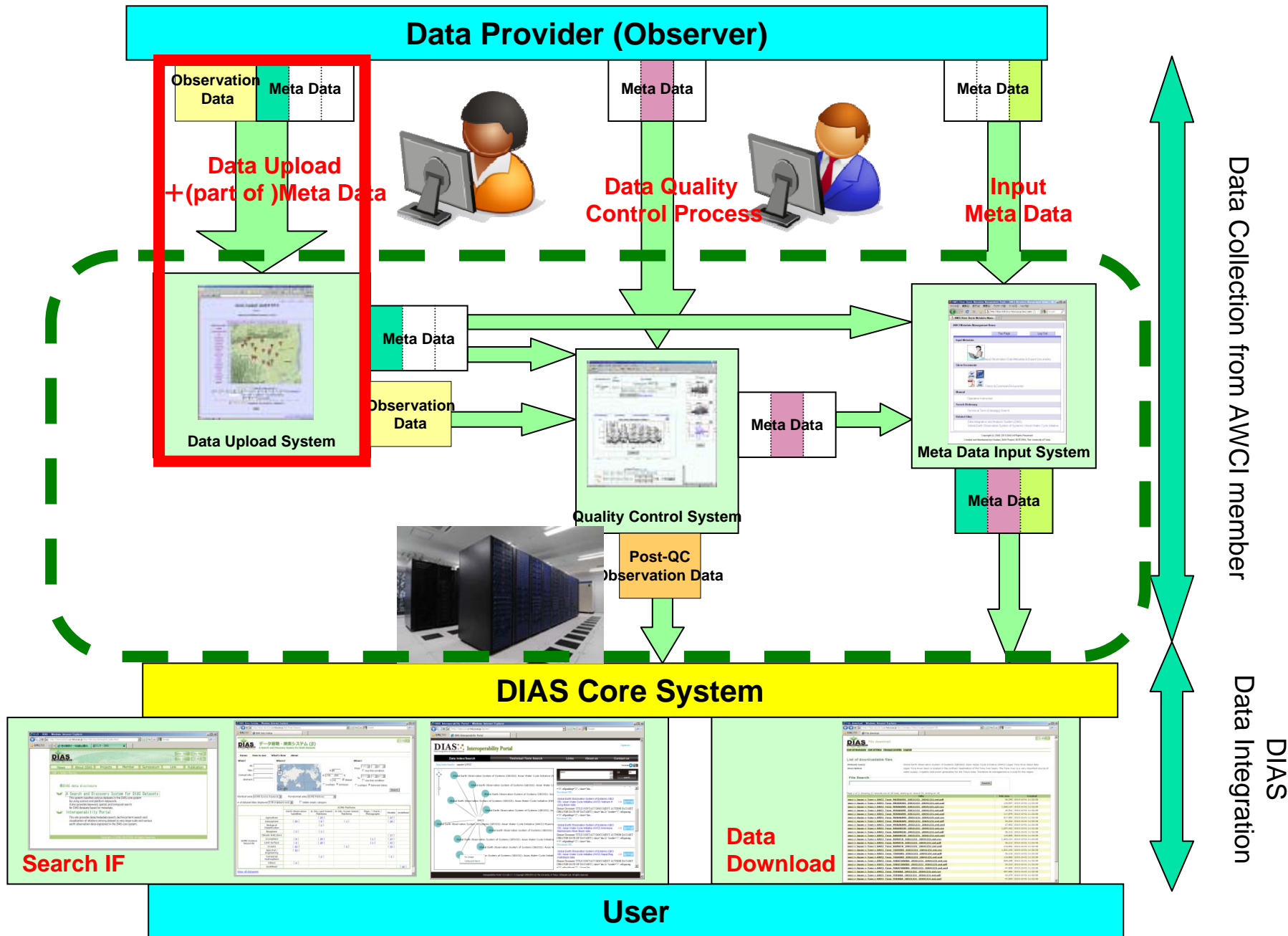
Google マップ

Our Mission and Goal

- Raw Data Collecting
- Quality Controlling
- Meta Data Collecting



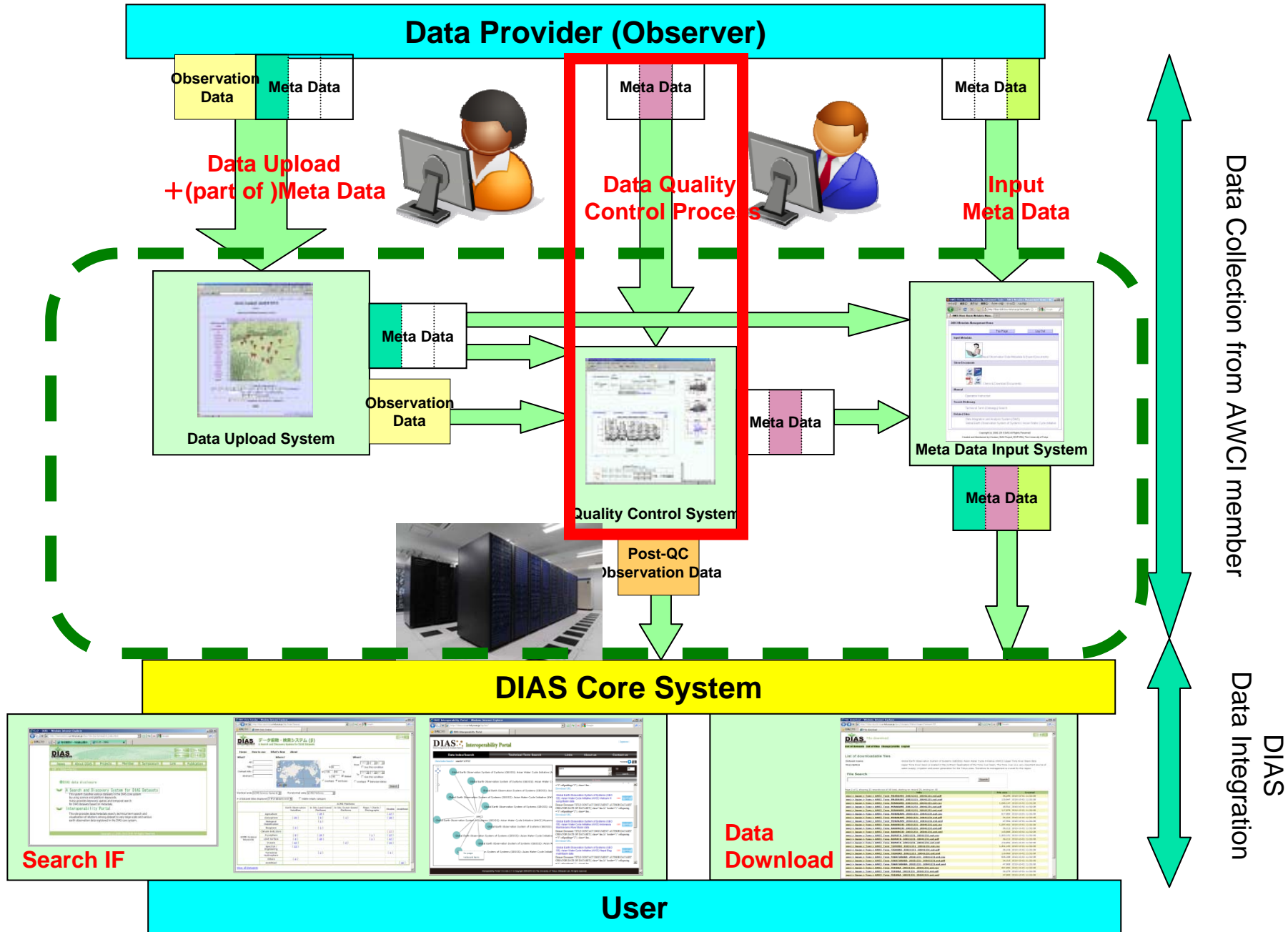
Downloadable



Data Archiving Status of Each Country (as of 101004)



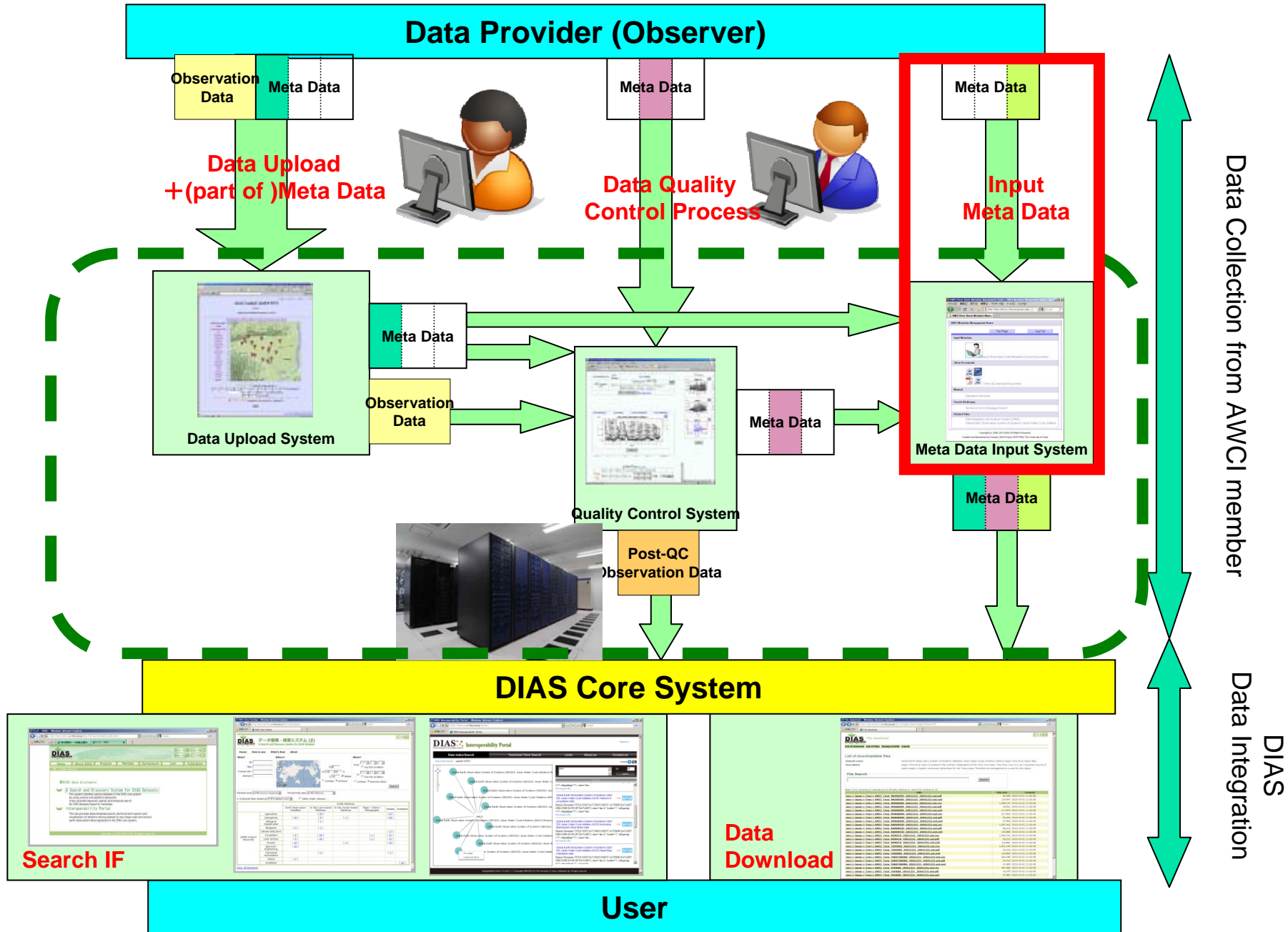
Station Name	Data Uploading	Quality Controlling	Document Metadata	Obs. Data Metadata
Bangladesh	Complete	Ongoing		
Bhutan	Complete	Ongoing		
Cambodia	Complete	Complete	Complete	Ongoing
India	Complete	Complete	Complete	
Indonesia	Complete	Complete	Complete	
Japan	Complete	Complete	Complete	Complete
Korea	Complete	Complete	Complete	Complete
Lao PDR	Ongoing			
Malaysia	Ongoing			
Mongolia	Complete	Ongoing		
Myanmar	Complete	Complete	Complete	Complete
Nepal	Complete	Complete	Complete	Complete
Pakistan	Complete	Ongoing		
Philippines	Complete	Ongoing		
Sri Lanka	Complete	Complete	Complete	Complete
Thailand	Complete	Complete	Complete	Complete
Uzbekistan	Complete	Complete	Complete	Ongoing
Vietnam	Complete	Complete	Complete	Complete



Data Archiving Status of Each Country (as of 101004)



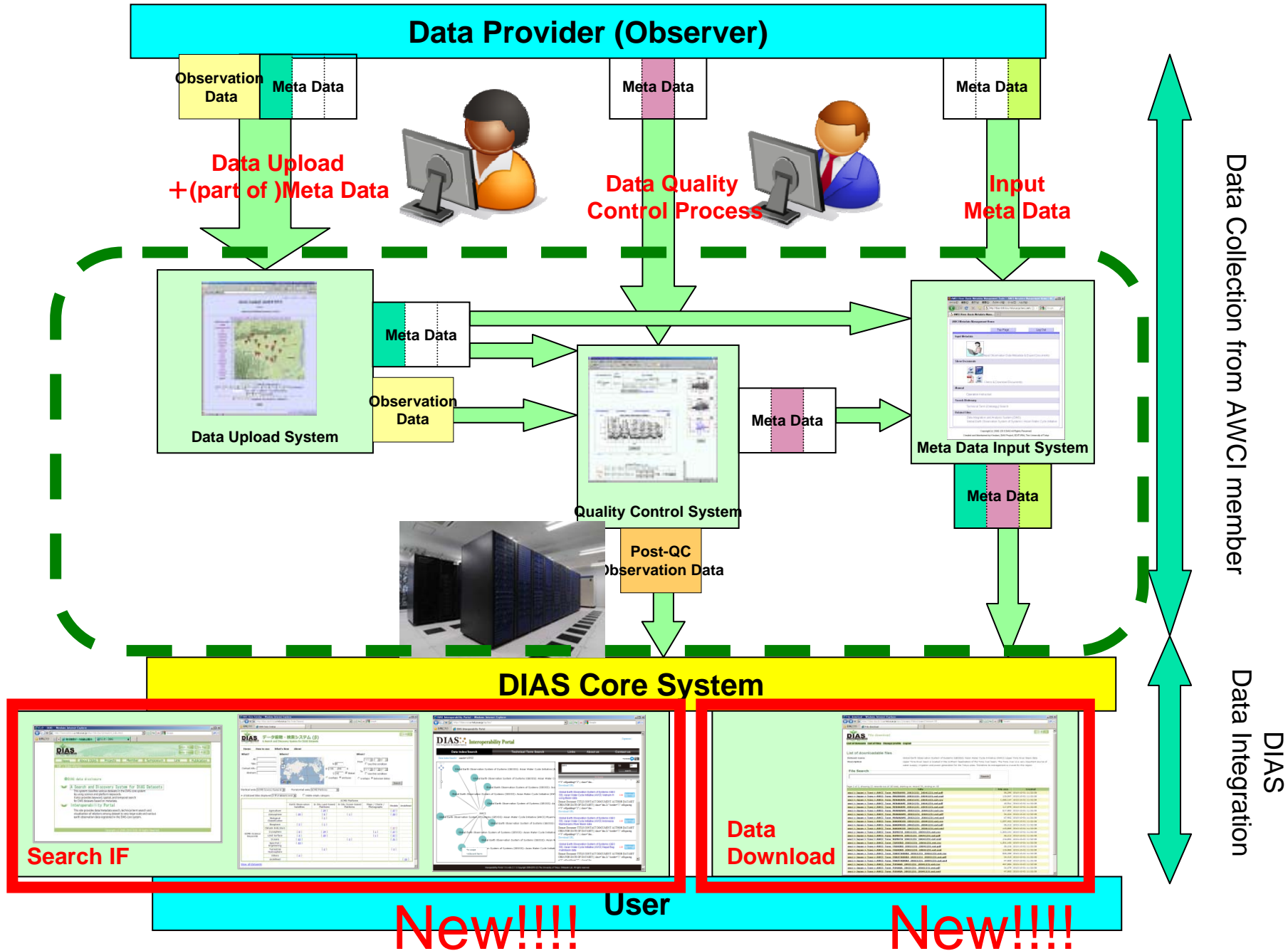
Station Name	Data Uploading	Quality Controlling	Document Metadata	Obs. Data Metadata
Bangladesh	Complete	Ongoing		
Bhutan	Complete	Ongoing		
Cambodia	Complete	Complete	Complete	Ongoing
India	Complete	Complete	Complete	
Indonesia	Complete	Complete	Complete	
Japan	Complete	Complete	Complete	Complete
Korea	Complete	Complete	Complete	Complete
Lao PDR	Ongoing			
Malaysia	Ongoing			
Mongolia	Complete	Ongoing		
Myanmar	Complete	Complete	Complete	Complete
Nepal	Complete	Complete	Complete	Complete
Pakistan	Complete	Ongoing		
Philippines	Complete	Ongoing		
Sri Lanka	Complete	Complete	Complete	Complete
Thailand	Complete	Complete	Complete	Complete
Uzbekistan	Complete	Complete	Complete	Ongoing
Vietnam	Complete	Complete	Complete	Complete



Data Archiving Status of Each Country (as of 101004)



Station Name	Data Uploading	Quality Controlling	Document Metadata	Obs. Data Metadata
Bangladesh	Complete	Ongoing		
Bhutan	Complete	Ongoing		
Cambodia	Complete	Complete	Complete	Ongoing
India	Complete	Complete	Complete	
Indonesia	Complete	Complete	Complete	
Japan	Complete	Complete	Complete	Complete
Korea	Complete	Complete	Complete	Complete
Lao PDR	Ongoing			
Malaysia	Ongoing			
Mongolia	Complete	Ongoing		
Myanmar	Complete	Complete	Complete	Complete
Nepal	Complete	Complete	Complete	Complete
Pakistan	Complete	Ongoing		
Philippines	Complete	Ongoing		
Sri Lanka	Complete	Complete	Complete	Complete
Thailand	Complete	Complete	Complete	Complete
Uzbekistan	Complete	Complete	Complete	Ongoing
Vietnam	Complete	Complete	Complete	Complete



Presentation

- Data Upload(Ikoma)
- Quality Control(Ikoma)

- Meta-Data Input(Kinutani)

- Search Interface(Ono - presented by Kinutani)
- Data Download(Kinutani)

New!!!!


AWCI Observation Data **Upload** System

Eiji Ikoma

Data Upload System

- Observers can upload observation data and input some Metadata on Web Interface consisted of 4 steps.
- On each step, observers need to input some information about the data.
- This system has lots of function which reduce the complicatedness of upload process
- Users can manage their own uploaded data

Login Page



AWCI Data Upload Center
Login
Ver.2.11a

• Username
• Password

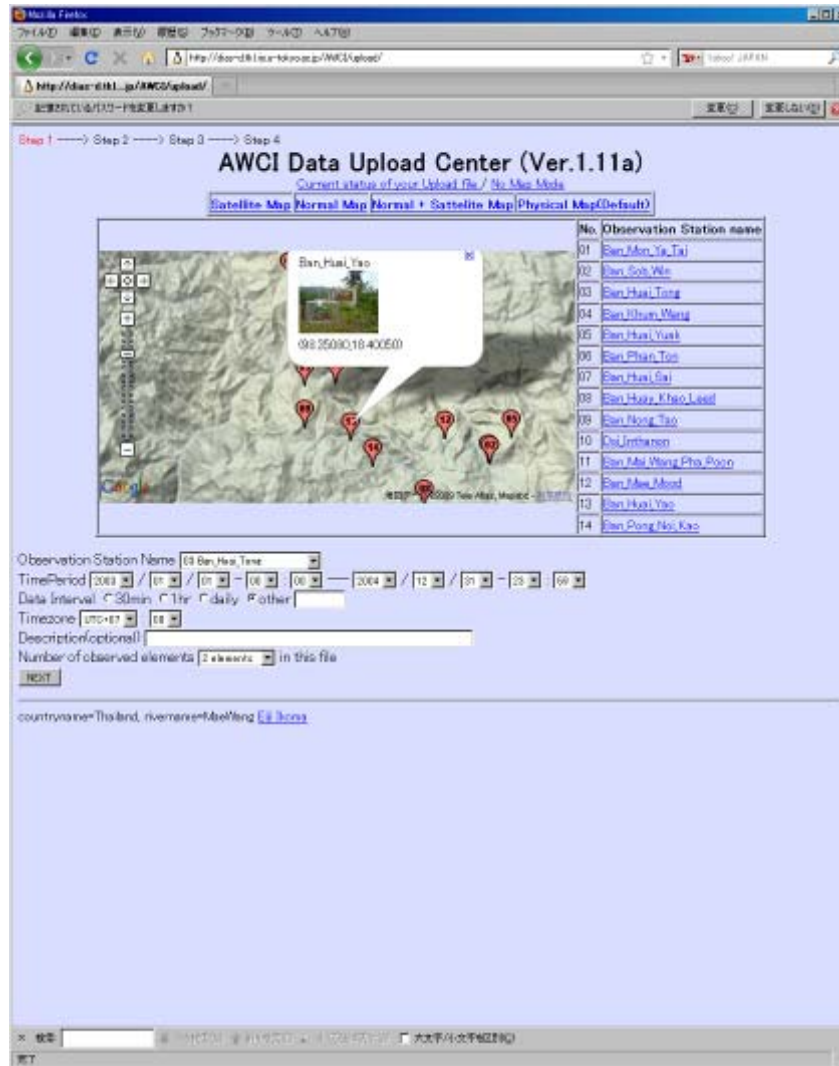
Observed station selection method,
 from Map with station list [default]
 from station list

[\[NEW!!\] Upload Status](#)

[AWCI Raw Data Upload Interface Users Guide \(PDF, 0.94MByte\)](#)
[Instruction manual for this system \(PDF, 1.28MByte\)](#)
[Attention of the data up-loading \(PDF, 2.28MByte\)](#)

- 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

STEP2

Mozilla Firefox

http://dias-d.tkl.t.u-tokyo.ac.jp/AWCI/upload/

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

Data Information

River Basin Name: MaeWang , Observation Station: Ban Huai Tong
 Time Period: 2003/01/01 00:00 ---- 2004/12/31 23:59
 Data Interval: , Timezone: UTC+07:00
 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.
 5 data confirm

Back NEXT

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	3: Air Temperature	2.0		degC	-999.9	
2	11: Precipitation	1.0		mm/10min	-999.9	
3	Please Select					
4	Please Select					
5	Please Select					

Back NEXT

[Eiji Ikoma](#)

完了

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

STEP3

http://dias-d.ki.iis.u-tokyo.ac.jp/AWCZ/upload/cei-bin/nccei/input-c205.sh - Microsoft Internet Explorer

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

File Upload

FILE

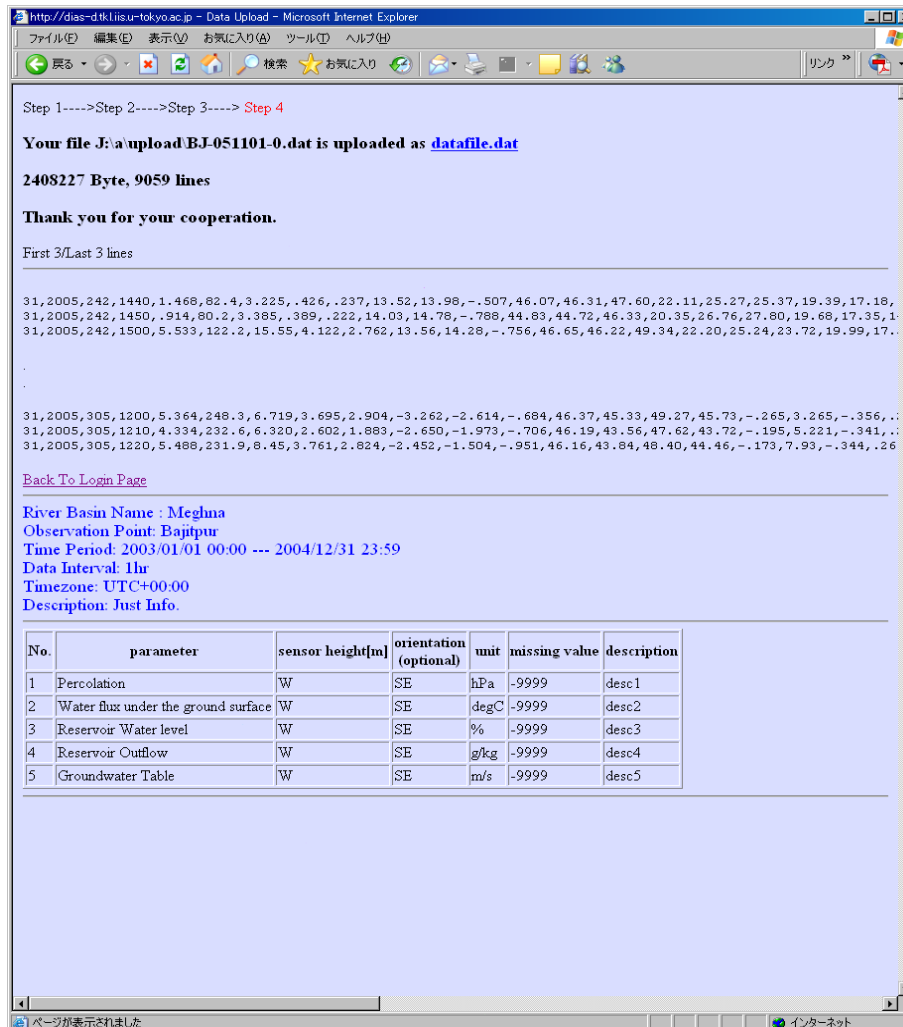
River Basin Name : Meghna
 Observation Point : Bajitpur
 Time Period: 2003/01/01 00:00 — 2004/12/31 23:59
 Data Interval: 1hr
 Timezone: UTC+00:00
 Description: Just Info.

No.	parameter	sensor height	orientation (optional)	unit	missing value	description
1	Air Temperature	W	SE	hPa	-9999	desc1
2	Dew Point Temperature	W	SE	degC	-9999	desc2
3	Relative Humidity	W	SE	%	-9999	desc3
4	Specific Humidity	W	SE	g/kg	-9999	desc4
5	Wind Speed	W	SE	m/s	-9999	desc5

ページが表示されました

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

STEP 4



- 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 observer 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

Mozilla Firefox

http://dias-d811s.tokyo.ac.jp/AWCI/upload/cer/bin/doclist-111.sh?99+0-1n

http://dias-d811s.tokyo.ac.jp/AWCI/upload/

http://dias-d811s.tokyo.ac.jp/AWCI/upload/

http://dias-d811s.tokyo.ac.jp/AWCI/upload/

List of Uploaded File (Ver.1.10a)

Tama-river [Download All "Tama-river" Data\(zip format\)](#) [Upload Status](#)

Uploaded Date/Time	Observation Station Name	Num. of Param	Start Time	End Time	Datafile	filesize(byte)	Docfile	Delete
2008/11/18 15:39:27(+0900)	01-UT Farm	1	2003/01/01 00:00	2004/12/31 23:59	datafile	24916	docfile	Delete
2008/01/14 14:04:00(+0800)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	datafile	460	docfile	Delete
2008/02/07 13:16:18(+0800)	01-UT Farm	4	2002/01/01 00:00	2003/12/31 23:59	datafile	3100	docfile	Delete
2008/02/14 11:56:00(+0900)	01-UT Farm	2	2003/01/01 00:00	2004/12/31 23:59	datafile	58	docfile	Delete
2008/02/19 02:15:48(+0800)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	datafile	826720	docfile	Delete
2008/02/19 13:54:49(+0900)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	zip	213	docfile	Delete
2008/02/19 16:51:38(+0800)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	xls	826720	docfile	Delete
2008/02/20 13:14:18(+0800)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	txt	2378	docfile	Delete
2008/02/20 13:29:09(+0900)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	txt	2378	docfile	Delete
2008/02/20 15:59:49(+0900)	01-UT Farm	5	2003/01/01 00:00	2004/12/31 23:59	lzh	448798	docfile	Delete
2008/03/11 02:28:03(+0800)	01-UT Farm	3	2003/01/01 00:00	2004/12/31 23:59	rar	58256	docfile	Delete
2008/05/07 15:50:00(+0800)	01-UT Farm	3	2003/01/01 00:00	2004/12/31 23:59	csv	928	docfile	Delete
2008/05/13 11:09:11(+0900)	01-UT Farm	3	2003/01/01 00:00	2004/12/31 23:59	lzh	18901	docfile	Delete
2008/05/14 18:33:40(+0800)	01-UT Farm	3	2003/01/01 00:00	2004/12/31 23:59	xls	59904	docfile	Delete
2008/05/14 18:35:06(+0800)	01-UT Farm	4	2003/01/01 00:00	2004/12/31 23:59	zip	84586	docfile	Delete
2008/05/14 18:50:58(+0800)	01-UT Farm	4	2003/01/01 00:00	2004/12/31 23:59	rar	66123	docfile	Delete
2008/05/14 18:52:18(+0800)	01-UT Farm	4	2003/01/01 00:00	2004/12/31 23:59	xls	4541952	docfile	Delete
2008/05/14 19:04:47(+0800)	01-UT Farm	4	2003/01/01 00:00	2004/12/31 23:59	rar	66123	docfile	Delete
2008/05/14 19:05:30(+0800)	01-UT Farm	4	2003/01/01 00:00	2004/12/31 23:59	zip	84586	docfile	Delete
2008/05/15 11:04:24(+0800)	01-UT Farm	3	2003/01/01 00:00	2004/12/31 23:59	lzh	348326	docfile	Delete
2008/06/04 11:05:46(+0800)	01-UT Farm	4	2003/01/01 00:00	2004/12/31 23:59	doc	83968	docfile	Delete
2008/11/10 12:54:10(+0800)	05-UT Farm5	4	2003/01/01 00:00	2004/12/31 23:59	csv	621	docfile	Delete
2008/11/26 08:27:15(+0800)	01-UT Farm	1	2003/01/01 00:00	2004/12/31 23:59	xls	46080	docfile	Delete
2008/11/26 08:28:13(+0800)	01-UT Farm	1	2003/01/01 00:00	2005/12/31 23:59	xls	46080	docfile	Delete
2008/11/28 19:00:58(+0800)	01-UT Farm	1	2003/01/01 00:00	2004/12/31 23:59	xls	46080	docfile	Delete
2008/11/26 19:01:42(+0800)	01-UT Farm	1	2003/01/01 00:00	2005/12/31 23:59	xls	43520	docfile	Delete
2008/11/29 15:54:38(+0800)	01-UT Farm	1	2003/01/01 00:00	2004/12/31 23:59	xls	54272	docfile	Delete
2008/11/29 15:58:50(+0800)	03-UT Farm3	1	2003/01/01 00:00	2004/12/31 23:59	csv	1184	docfile	Delete
2008/11/30 05:49:34(+0800)	05-UT Farm5	5	2003/01/01 00:00	2004/12/31 23:59	dat	186668	docfile	Delete
2008/11/30 05:50:58(+0800)	05-UT Farm5	5	2003/01/01 00:00	2004/12/31 23:59	csv	118472	docfile	Delete

[Eg1.thema](#)

検索

完了

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

AWCI Data Upload System

- In detail, please refer my presentation @ 5th AWCI ICG on Dec.2009
- Or, check the documentation on the toppage of AWCI Data Upload System.

Upload Process is almost finished for this term.

Thank you for your cooperation!

AWCI Data **Quality Control** System

Eiji Ikoma

Our Data Quality Control System

- First version of our QC system was developed 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 3.03a are now running for AWCI(2009-)

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)

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

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

Update Window
Data 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)

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

Google G 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

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: <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		TZ= 00	
		<input type="button" value="allcheck"/> <input type="button" value="allclear"/>	

UID=Upper_Chungjudam

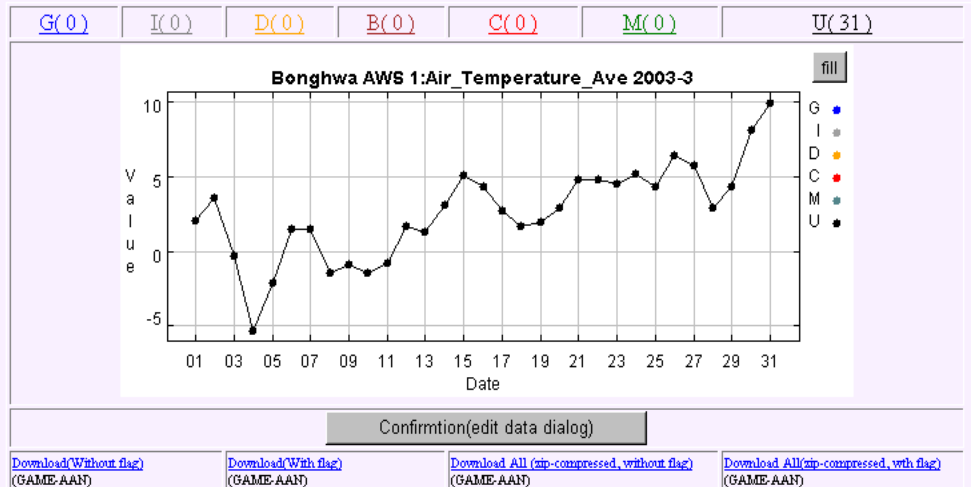
2:Air_Temperature_Max Overlay

3:Air_Temperature_Min Overlay

5:Relative_Humidity Overlay

6:Sunshine_Duration Overlay

Y-Axis: Real Normalized (Max/Min)



Update the Flag

Update Flags [Update a value](#)

From:	Day: 01	Hour: 00	Minute: 00	Flag=Value	Change to	Flag= U	Update
To:	Day: 10	Hour: 23	Minute: 59	Flag= U	Change to	Flag= G	Update (Tz=00.00)

AWCI-QC System Ver3.03a

- Ver3.03a is now running, 16 sites's data are loaded and open to each observer.
- New 2 functions are available from Ver3.03a based on user's request.
 - Move to Next/Previous time period
 - Handling observation data in a year unit

AWCI Data Quality Control System

- In detail, please refer my presentation @ 6th AWCI ICG on Mar.2010
- Or, check the documentation on the toppage of AWCI QC System.
- 11site = complete, 5 site = ongoing
- Please finish QC Process **ASAP**, and proceed to MetaData Input process.

Thank you for your cooperation!

Presentation

- Data Upload(Ikoma)
- Quality Control(Ikoma)



- Meta-Data Input(Kinutani)

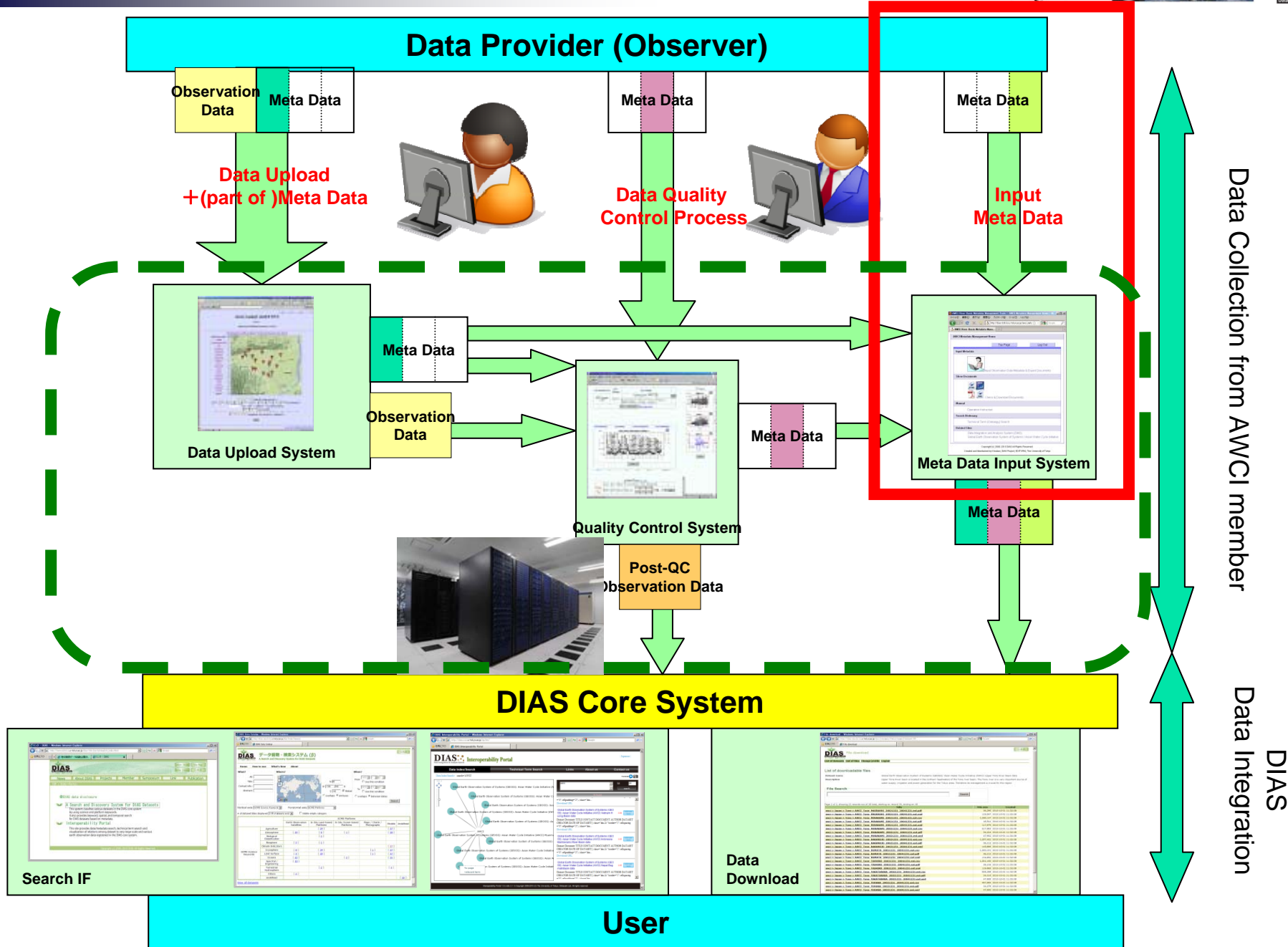
- Search Interface(Ono - presented by Kinutani)
- Data Download(Kinutani)

AWCI Data, Metadata & Data Integration

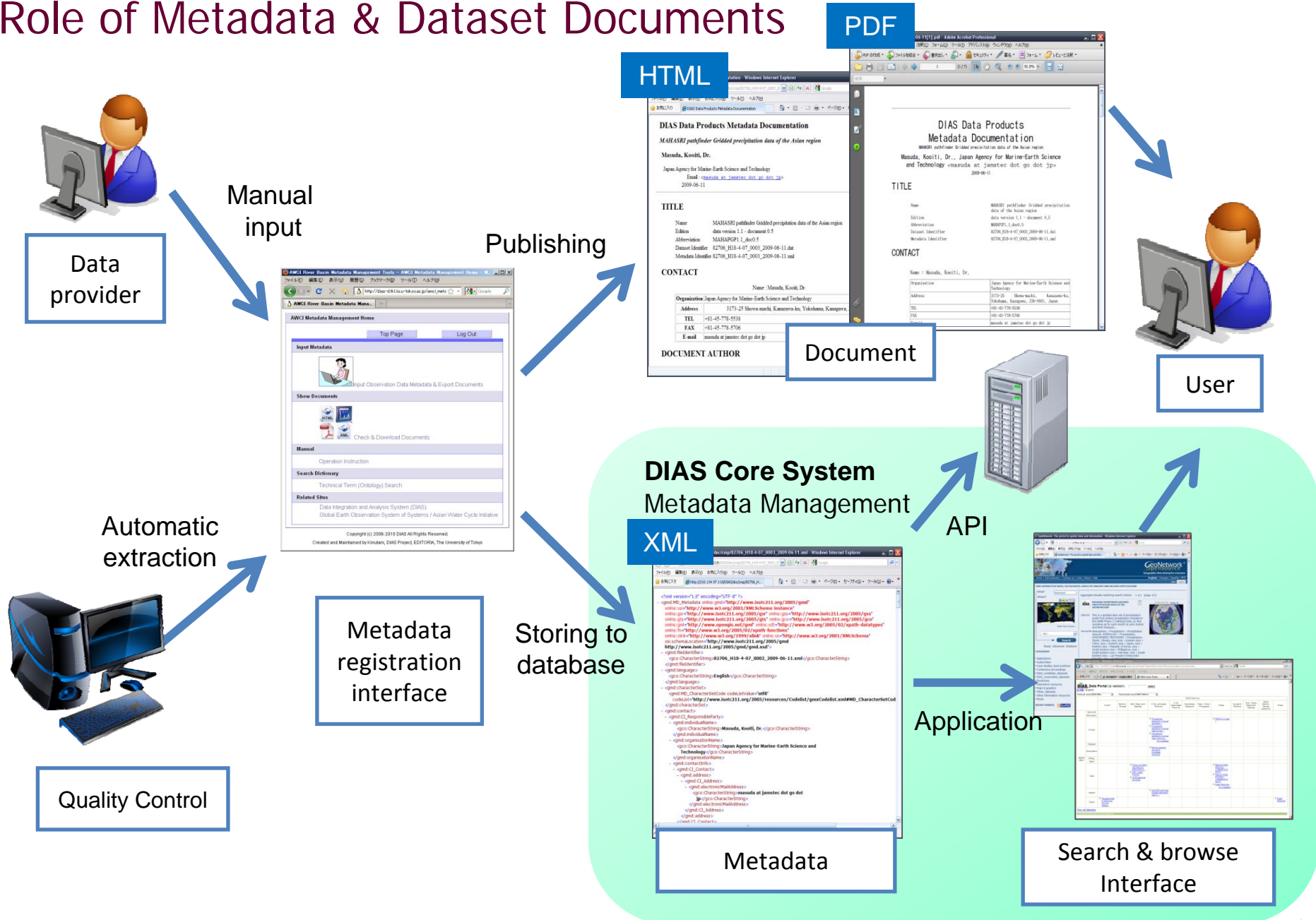
October 6th , 2010

Hiroko Kinutani*,Eiji Ikoma*,
Katsunori Tamagawa[¶], Tetsu Ohta[¶],
Toshihiro Nemoto*, Masafumi Ono*,
Toshiyuki Shimizu[#]
Masaru Kitsuregawa* and Toshio Koike[¶]

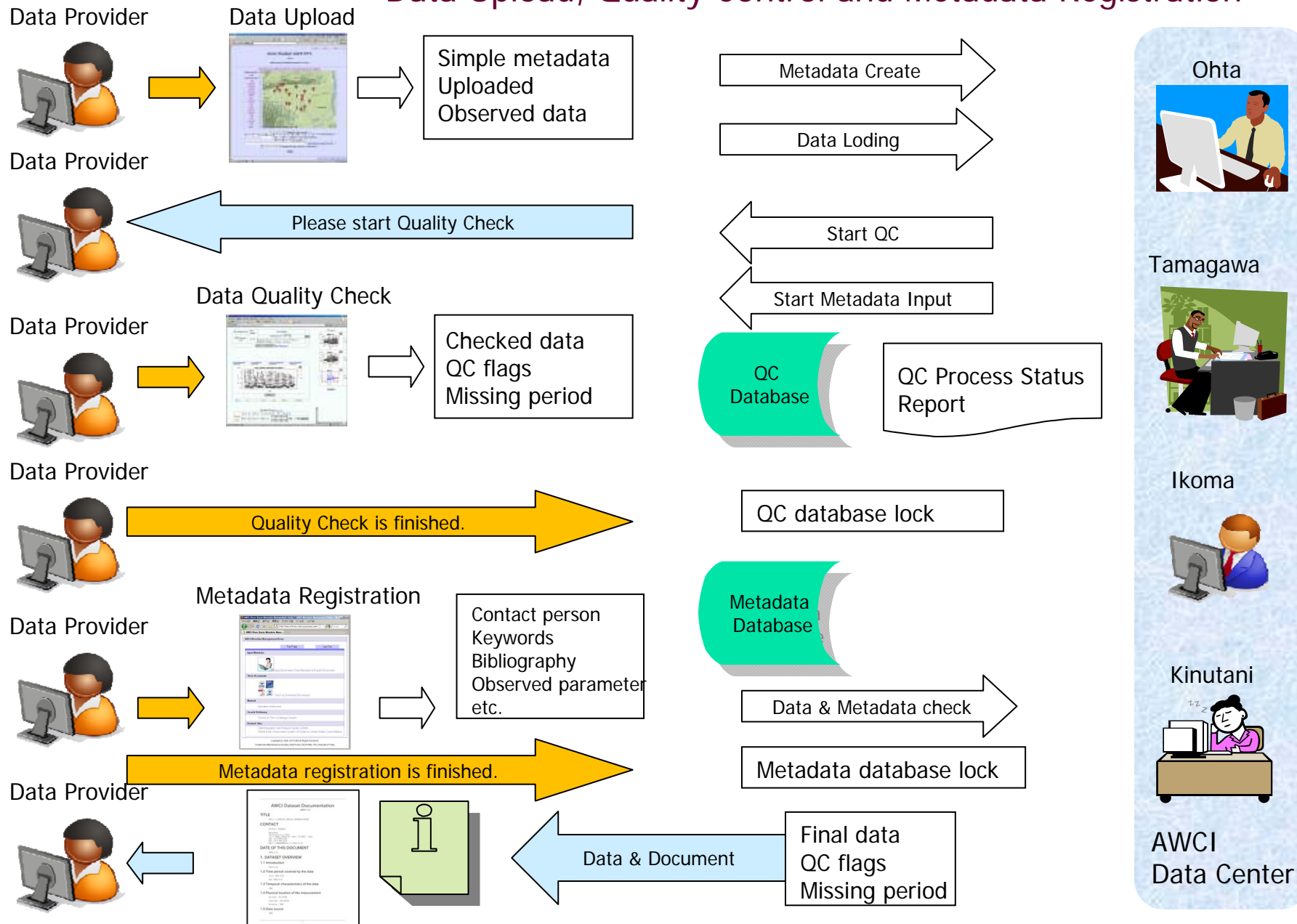
The University of Tokyo (*IIS, [¶] Civil Eng.)
Kyoto University [#]



Role of Metadata & Dataset Documents



Operation Flow of Data Upload, Quality Control and Metadata Registration



AWCI Data Upload, QC, Metadata Retistration System

1. Data Upload+(part of)Metadata

Observation parameter, period, unit, etc.

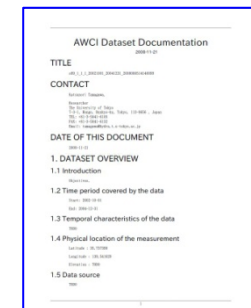
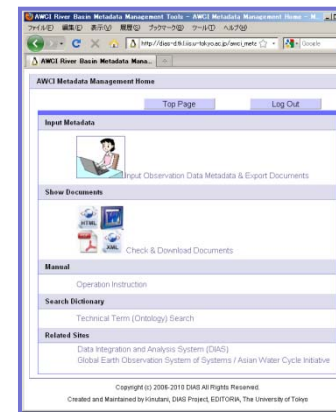


2. Data Quality Control



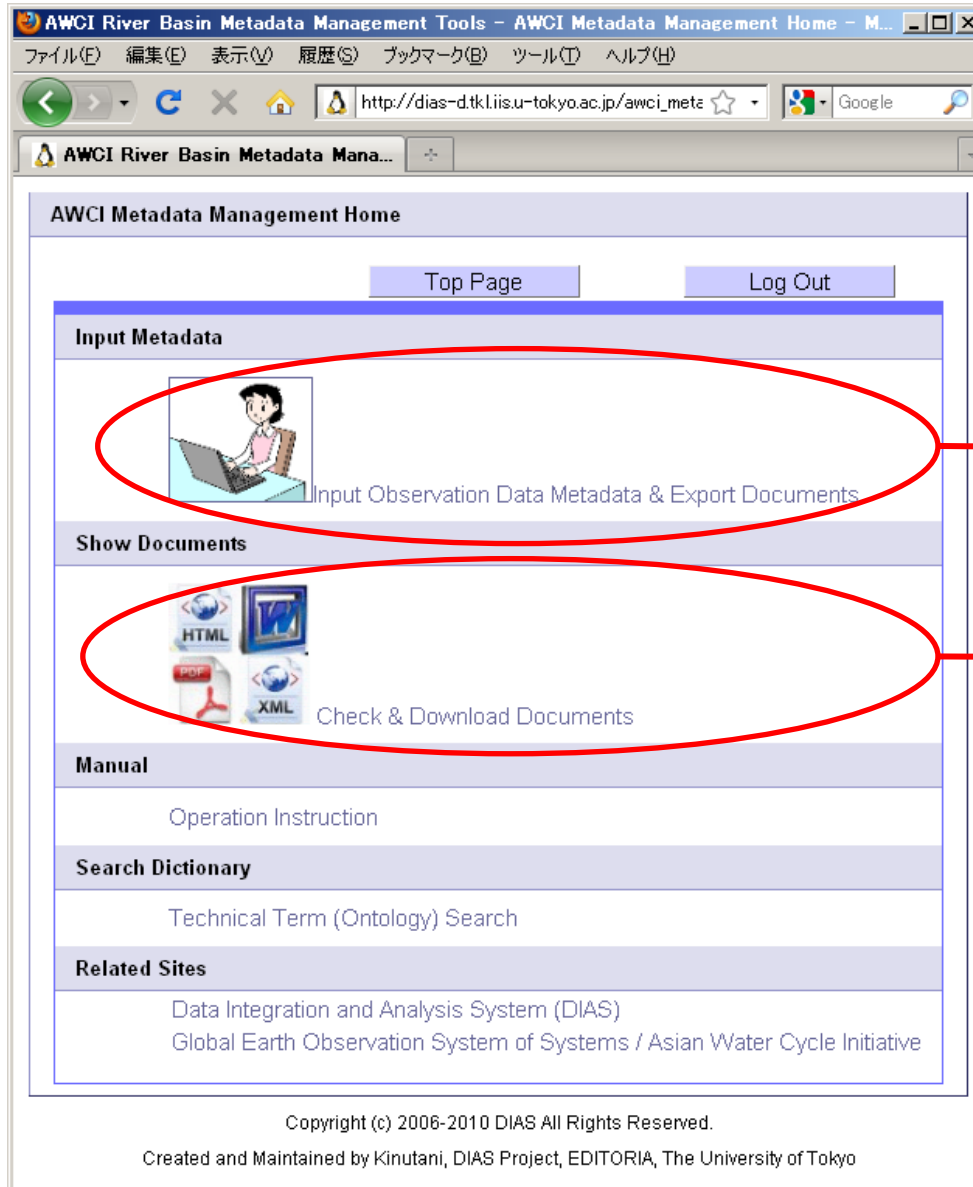
3. Metadata registration & Document Creation

1 metadata per station



Top Page

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



AWCI River Basin Metadata Management Tools - AWCI Metadata Management Home - M...

ファイル(E) 編集(E) 表示(V) 履歴(S) ブックマーク(B) ツール(T) ヘルプ(H)


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

AWCI River Basin Metadata Mana...

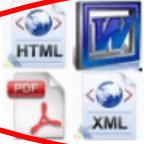
AWCI Metadata Management Home

Top Page Log Out

Input Metadata

 Input Observation Data Metadata & Export Documents

Show Documents

 Check & Download Documents

Manual

Operation Instruction

Search Dictionary

Technical Term (Ontology) Search

Related Sites

Data Integration and Analysis System (DIAS)
Global Earth Observation System of Systems / Asian Water Cycle Initiative

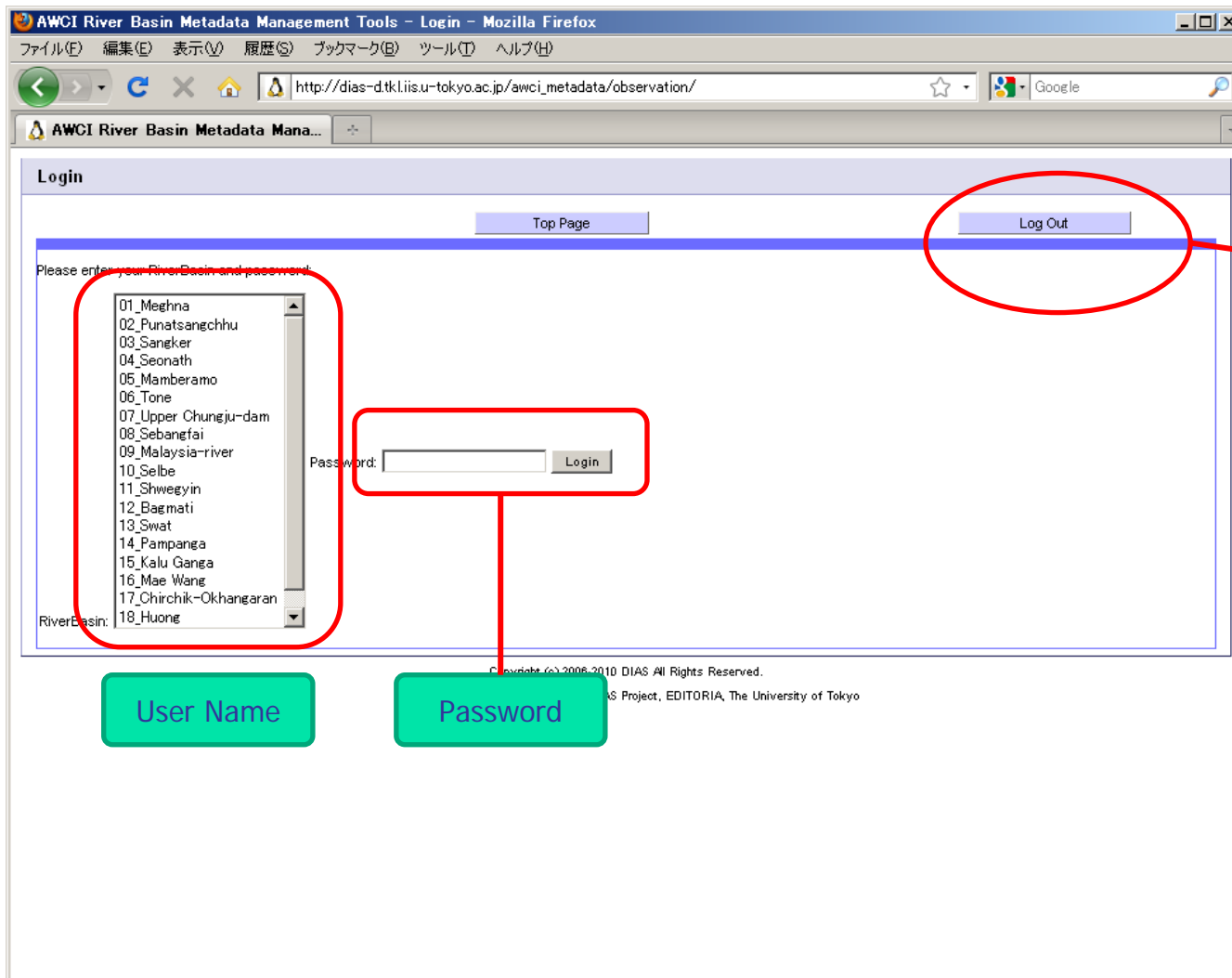
Copyright (c) 2006-2010 DIAS All Rights Reserved.
Created and Maintained by Kinutani, DIAS Project, EDITORIA, The University of Tokyo

- Please start from this page.

1 Input metadata of each station, and export documents.

2 Display the list of the documents created before.

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

RiverBasin:

Password: Login

User Name Password

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S Project, EDITORIA, The University of Tokyo

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

1. Input Metadata Page

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

ファイル(E) 編集(E) 表示(V) 履歴(S) ブックマーク(B) ツール(T) ヘルプ(H)

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

AWCI River Basin Metadata Mana...

AWCI Observation Data Metadata Registration System (Japan Tone)

① Select Station [Please select] ② Display Help [Yes] ③ Load ④ Save ⑤ Reset

Top Page Log Out

Observation Data Metadata Document Metadata Confirmation & Export Document

⑥ 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 Model Most Frequently Used Candidate Select Set Clear
Observed parameter and description required!	Height(unit:m) Orientation Unit	Data interval	Calculation method	Instrument Manufacturer and Model

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(1) Select Station

(2) Load previous saved metadata

input

(3) Observation Data Metadata or Document Metadata

1. Input Metadata Page

(1) Select Station

(2) Load previous saved metadata

input

(3) Observation Data Metadata or Document Metadata

AWCI Observation Data Metadata Registration System (Japan Tone)

Top Page Log Out

Select Station: Please select

Display Help: Yes

Load Save Reset

Metadata Document Metadata Confirmation & Export Document

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!

Height(unit:m) Orientation Unit Data interval Calculation method Instrument Manufacturer and Model

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 Select

Model Select

Set Clear

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1. Input Metadata Page

(1) Select Station

(2) Load previous saved metadata

input

(3) Observation Data Metadata

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

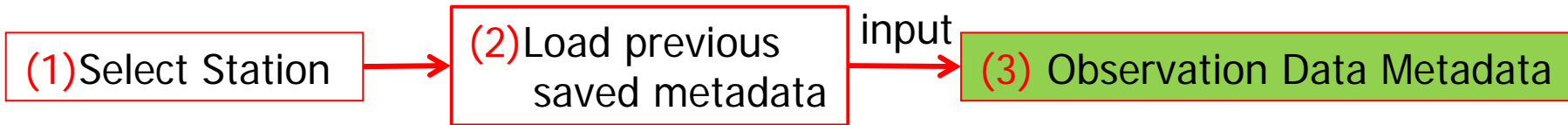
Observation Data Metadata Document Metadata Confirmation & Export Document

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"/> Model: <input type="text"/> Most Frequently Used: Aandera Candidate: <input type="text"/>
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"/> Model: <input type="text"/> Most Frequently Used: KAIJO Candidate: <input type="text"/>

There are metadata input boxes related to observed parameters.

1. Input Metadata Page

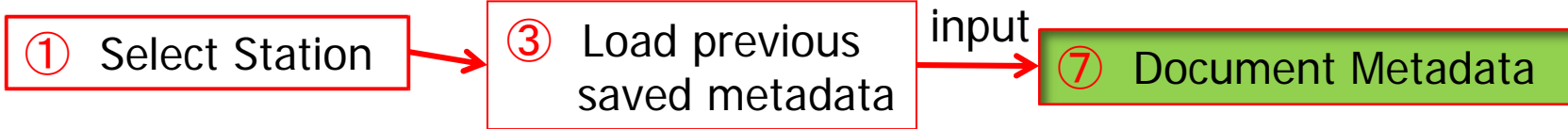


These boxes are displaying the instrument & model which is registered in this system.

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

Input boxes Recommendation boxes

1. Input Metadata Page



1.0 DATASET OVERVIEW

1.1 Introduction *required*:

1.4 Station Description

Longitude	Latitude	Elevation
139.06333	Mr. 0	

Landscape

Canopy height

Soil Characteristics

1.5 Data source

Observed data

1.6 Website address references

Improvement!!

The sentences you entered the last time and sample description will be displayed.

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

3.1 Description of data collection

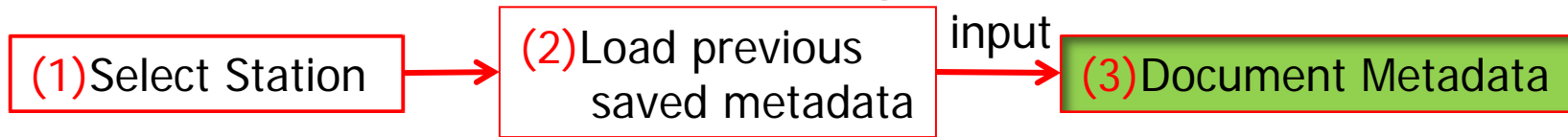
Original data are sampled at every 1 second (1.0 Hz), and 10-minute average is computed and stored in a datalogger (VAISALA MLoS500). Data are downloaded from the Tower twice every year, in spring and summer. Then, data are sent to Japan, where they are processed.

3.2 Description of derived parameters and processing techniques used

Air Temperature, relative humidity, radiation, Wind speed, Wind direction and Skin Temperature are averaged over the previous hour. Air pressure is instantaneous values of each 1 hour. Precipitation is accumulated over the previous 1 hour.

5.0 GAP FILLING PROCEDURES

1. 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

1. Input Metadata Page

(1) Select Station

(2) Load previous saved metadata

(3) Save, Confirmation & Export Document

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

Please allow Popup!!!

AWCI_Tone_MAEBASHI_20021231_2004

CONTACT

Toshio Koike
 Professor, AWCI Leader
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 7-3-1, Hongo,
 Bunkyo-ku, Tokyo, 113-8656, Japan
 Phone : +81-3-5841-6106
 Fax : +81-3-5841-6130
 Email : tkoike@f

DATE OF THIS DOCUMENT

Monday March 8, 2010

1.0 DATASET OVERVIEW

1.1 Introduction

1.2 Time period covered by the data

Start : 2002-12-31
 End : 2004-12-31

1.3 Temporal characteristics of the data

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

Description

Latitude 139.06333
 Longitude 36.40167
 Elevation Minimum 0 - Maximum 0
 Slope
 Slope by height

Characteristics

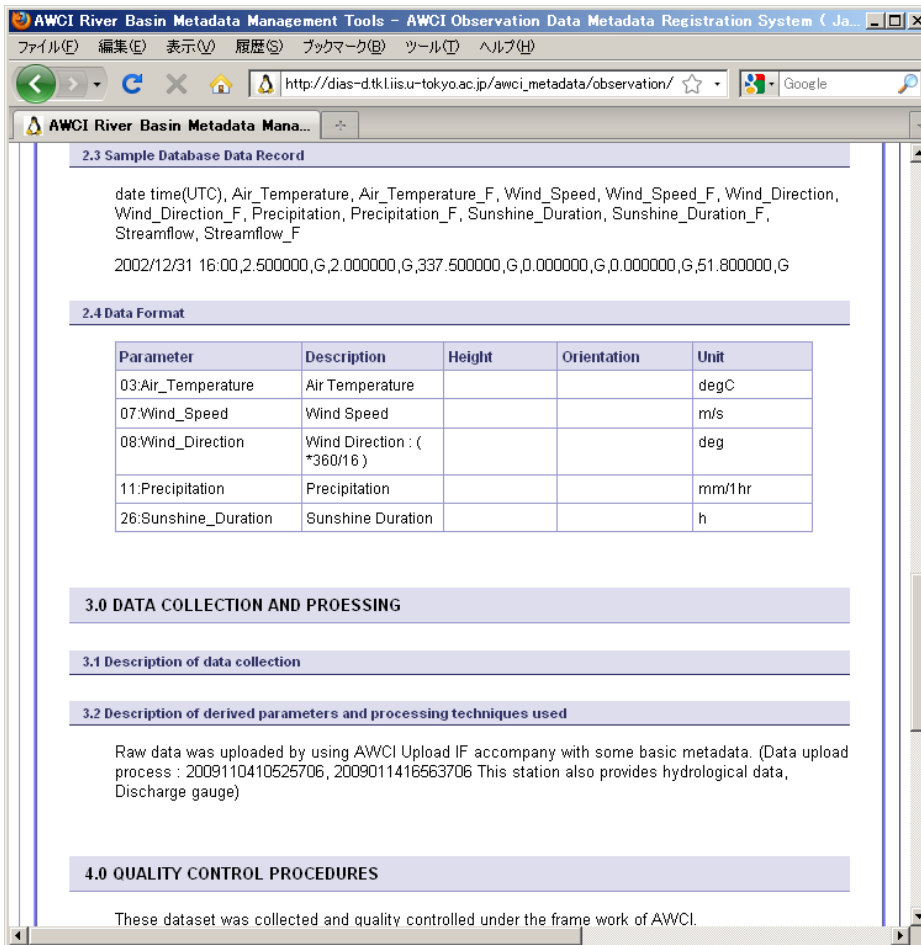
Parameter	Instrument Manufacturer	Instrument Model
03:Air_Temperature		
07:Wind_Speed		

1. Input Metadata Page

(1) Select Station

(2) Load previous saved metadata

(3) Save, Confirmation & Export Document



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

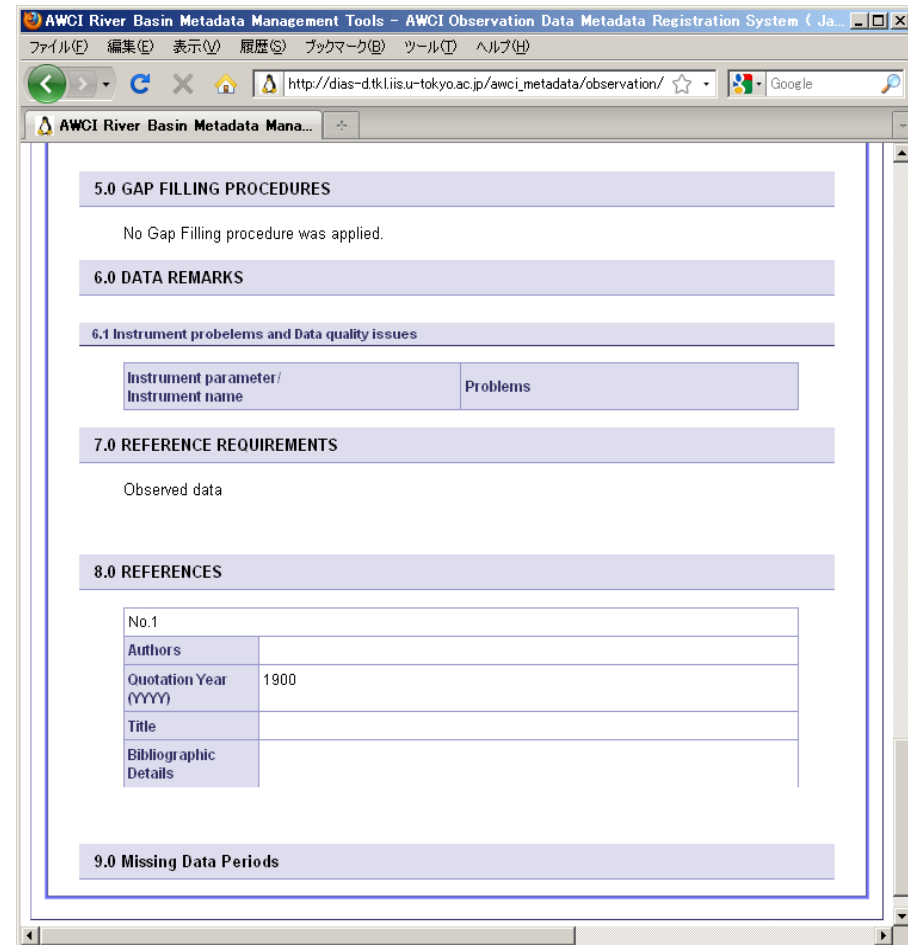
3.1 Description of data collection

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)	Title	Bibliographic Details
		1900		

9.0 Missing Data Periods

1. Input Metadata Page

(1) Select Station

(2) Load previous saved metadata

(3) Confirmation & Export Document

Document generation Status - Mozilla Firefox

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

AWCI River Basin Metadata Manage... Document generation Status

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

Click

AWCI Dataset Documentation - Mozilla Firefox

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

AWCI River Basin Metadata Mana... Document generation Status AWCI Dataset Documentation

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

CONTACT

Katsunori Tamagawa.

Researcher
 The University of Tokyo
 7-3-1, Hongo Bunkyo-ku Tokyo 113-8656 Japan
 TEL: +81-3-5841-6105
 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

2. 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?

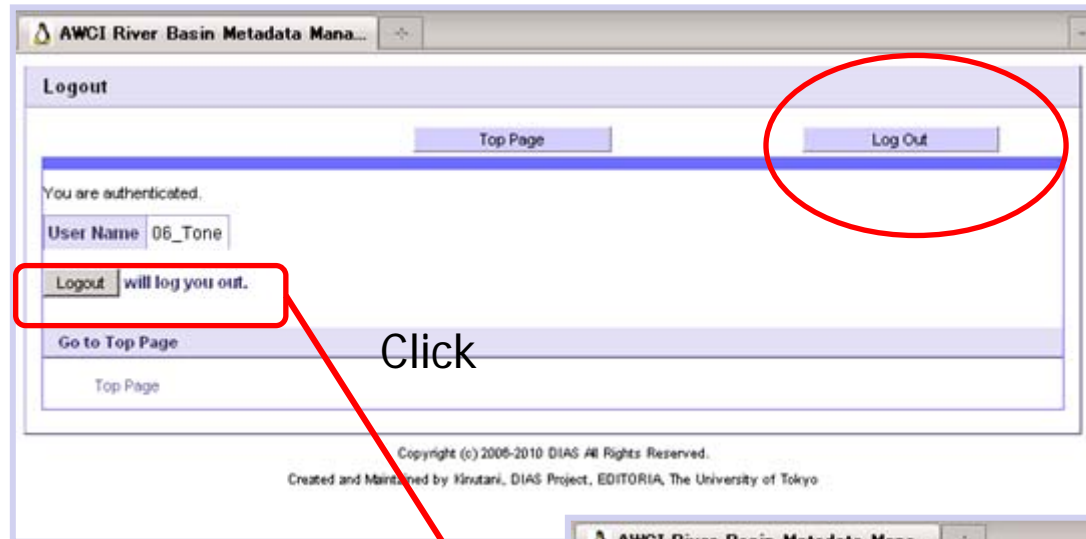
名前: AWCI_Shwegyin_Shwegyin_20030101_20041231.ext.csv
種類: Microsoft Office Excel CSV ファイル
発信元: dias-d.tkl.iis.u-tokyo.ac.jp

開く(O) 保存(S) キャンセル

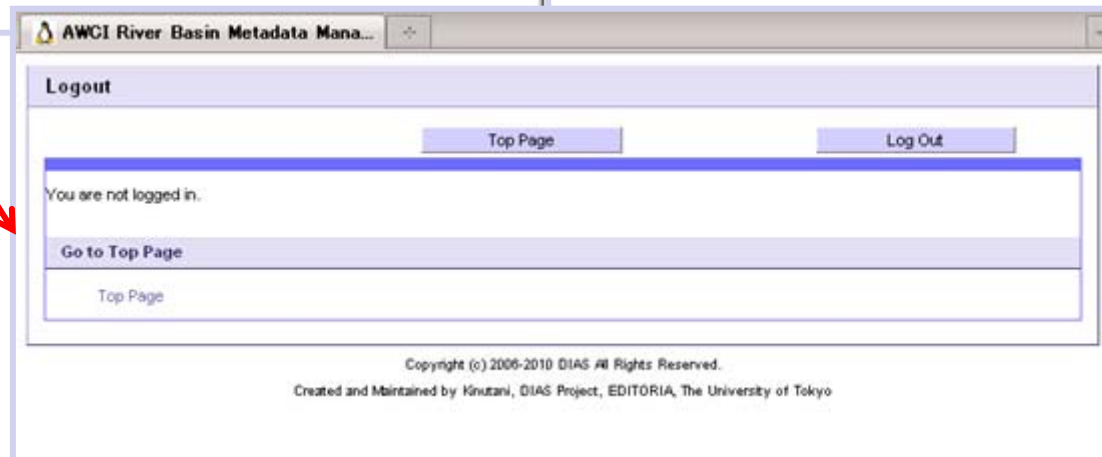
インターネットのファイルは役に立ちますが、ファイルによってはコンピューターに問題を引き起こすこともあります。発信元が信頼できない場合は、このファイルを開いたり保存したりしないでください。危険性の説明

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

Log Out Page



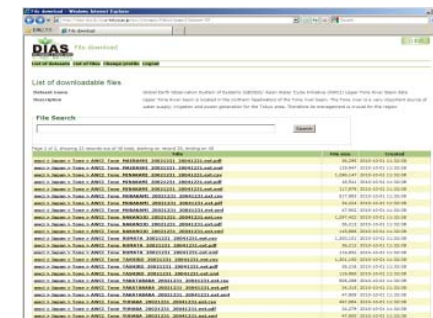
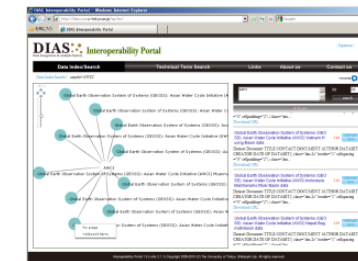
Click



DIAS Data Integration

DIAS Data Integration

- DIAS <http://www.editoria.u-tokyo.ac.jp/dias/english/index.html>
- DIAS Data disclosure Site http://www.editoria.u-tokyo.ac.jp/dias/link/portal/english_index.html
- Search tools
 - DIAS Dataset Catalog <http://dias-dss.tkl.iis.u-tokyo.ac.jp/ddc/finder?lang=en>
 - DIAS Interoperability Portal <http://dias.csis.u-tokyo.ac.jp/op/en/>
- Data Download via Search tools



DIAS Dataset Catalog (A Search and Discovery System)

<http://dias-dss.tkl.iis.u-tokyo.ac.jp/ddc/finder?lang=en>

Search interface

Home How to use What's New About

What?
 All: AWCI
 Title:
 Contact info.:
 Abstract:

Where?
 Map showing search area with coordinates: N 90, W -180, E 180, S -90. Includes checkboxes for Global, overlaps, and encloses.

When?
 From: 1950 To: 2010. Includes checkboxes for Use this condition, overlaps, and between dates.

Vertical axis: GCMD Science Keywords | Horizontal axis: GCMD Platforms

of dataset titles displayed: 0 (# of datasets only) | Visible empty category

GCMD Science Keywords	GCMD Platforms				
	Earth Observation Satellites	In Situ Land-based Platforms	In Situ Ocean-based Platforms	Maps / Charts / Photographs	Models
Agriculture		[34]			[22]
Atmosphere	[30]	[6]	[1]		[28]
Biological Classification		[1]			
Biosphere	[2]	[1]			
Climate Indicators					[22]
Cryosphere	[8]	[34]		[1]	[22]
Land Surface	[5]	[39]		[1]	[22]
Oceans	[22]		[2]		[31]
Spectral / Engineering	[10]				
Terrestrial Hydrosphere		[2]			[1]
Others	[2]				
Undefined					[15]

Categorization of datasets

DIAS Data Catalog - Windows Internet Explorer

Search conditions Keyword: AWCI

Results 1 - 10 of 10 hits

- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Upper Tone River Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Kalu Ganga Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Mae Wang Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Cambodia Sangker Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Indonesia Mamberamo River Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Korea Upper Chungju-dam Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Myanmar Shwegyin Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Nepal Bagmati Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Uzbekistan Chirchik-Okhangaran Basin data](#)
- [Global Earth Observation System of Systems \(GEOSS\)/ Asian Water Cycle Initiative \(AWCI\) Vietnam Huong Basin data](#)

[1-10]

List of datasets

DIAS Dataset Catalog (A Search and Discovery System)

<http://dias-dss.tkl.iis.u-tokyo.ac.jp/ddc/finder?lang=en>

■ Search function

- Select categories : GEOSS SBAs (Water)XGCMD Platform(In Situ Land-based Platforms)
- Input keywords : AWCI
- Specify geographical range : South East Asia
- Specify observation period : overlaps 2003/1/1-2004/12/31

DIAS Dataset Catalog (A Search and Discovery System)

<http://dias-dss.tkl.iis.u-tokyo.ac.jp/ddc/finder?lang=en>

DIAS データ検索・検索システム (A Search and Discovery System)

Download

Global Earth Observation System of Systems (GEOSS)/ Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data

Toshio Koike
The University of Tokyo
2010-10-01

TITLE

Name	Global Earth Observation System of Systems (GEOSS)/ Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data
Edition	
Dataset Identifier	12601_H21-3-03_0087_2010-10-01.dat
Metadata Identifier	12601_H21-3-03_0087_2010-10-01.xml

CONTACT

Name : Toshio Koike

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Address	7-3-1, Hongo, Bunkyo-ku, Tokyo, 113-8656, Japan
TEL	+81-3-5841-6106
FAX	+81-3-5841-6130
E-mail	tkoike at hydra dot t dot u-tokyo dot ac dot jp

DOCUMENT AUTHOR

Dataset document

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Authentication for DIAS Systems

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Password:

Remember me before logging me into other sites.

Login clear

Forgot your password? [Please reset your password](#)
Please register if you don't have an account.
For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!

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After authentication

DIAS File download
Change profile Logout

List of downloadable files

Dataset name Global Earth Observation System of Systems (GEOSS)/ Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data

Description Upper Tone River basin is located in the northern headwaters of the Tone river basin. The Tone river is a very important source of water supply, irrigation and power generation for the Tokyo area. Therefore its management is crucial for the region.

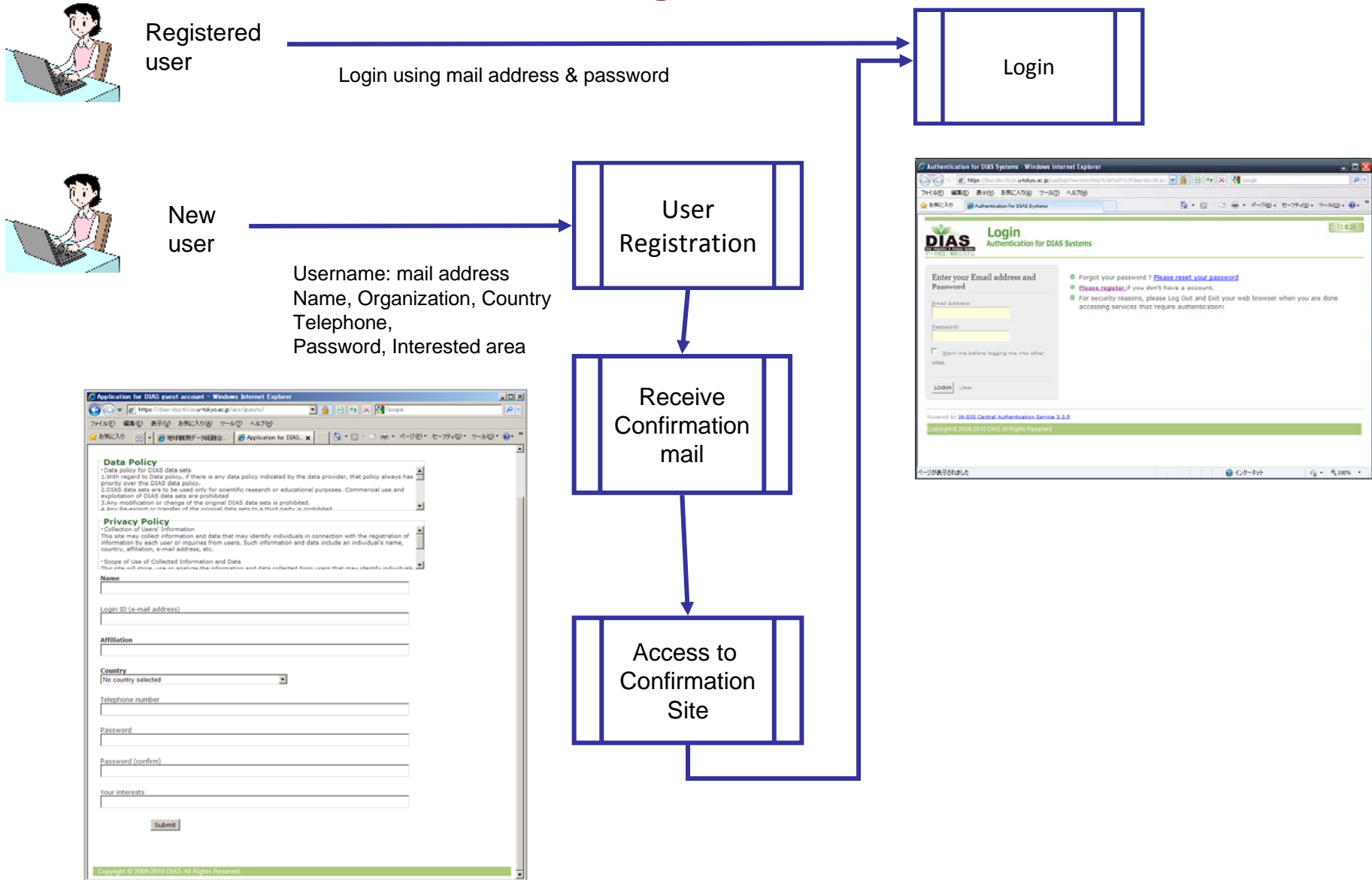
File Search

Page 1 of 2, showing 25 records out of 48 total, starting on record 1, ending on 25

Title	File size	Created
awci > Japan > Tone > AWCI Tone CHIDORI 20021231_20041231.ext.csv	495,546	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone CHIDORI 20021231_20041231.ext.pdf	34,182	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone CHIDORI 20021231_20041231.ext.xml	47,890	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone FUJIWARA 20021231_20041231.ext.csv	1,289,576	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone FUJIWARA 20021231_20041231.ext.pdf	67,067	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone FUJIWARA 20021231_20041231.ext.xml	120,171	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone HARUNASAN 20021231_20041231.ext.csv	1,315,967	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone HARUNASAN 20021231_20041231.ext.pdf	36,644	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone HARUNASAN 20021231_20041231.ext.xml	119,804	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone IWAMOTO 20021231_20041231.ext.csv	514,233	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone IWAMOTO 20021231_20041231.ext.pdf	34,231	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone IWAMOTO 20021231_20041231.ext.xml	47,895	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone KAMIKUYA 20021231_20041231.ext.csv	494,447	2010-10-01 11:32:08
awci > Japan > Tone > AWCI Tone KAMIKUYA 20021231_20041231.ext.pdf	34,296	2010-10-01 11:32:08

List of downloadable files

Data Download: Login (Authentication System)



New user registration

Data Download : After authentication

DIAS File download

Change profile Logout

List of downloadable files

Dataset name: Global Earth Observation System of Systems (GEOSS)/ Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data

Description: Upper Tone River basin is located in the northern headwaters of the Tone river basin. The Tone river is a very important source of water supply, irrigation and power generation for the Tokyo area. Therefore its management is crucial for the region.

File Search

Page 1 of 2, showing 25 records out of 48 total, starting on record 1, ending on 25

File name	File size	Created
awci > Japan > Tone > AWCI_Tone_CHIDORI_20021231_20041231_ext.csv	493,549	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_CHIDORI_20021231_20041231_ext.pdf	34,183	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_CHIDORI_20021231_20041231_ext.xml	47,89	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_FUJIWARA_20021231_20041231_ext.csv	1,289,57	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_FUJIWARA_20021231_20041231_ext.pdf	67,06	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_FUJIWARA_20021231_20041231_ext.xml	120,17	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_HARUNASAN_20021231_20041231_ext.csv	1,315,967	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_HARUNASAN_20021231_20041231_ext.pdf	36,644	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_HARUNASAN_20021231_20041231_ext.xml	119,884	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_IWAMOTO_20021231_20041231_ext.csv	514,233	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_IWAMOTO_20021231_20041231_ext.pdf	34,231	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_IWAMOTO_20021231_20041231_ext.xml	47,895	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_KAMIKIUYA_20021231_20041231_ext.csv	494,447	2010-10-01 11:32:08
awci > Japan > Tone > AWCI_Tone_KAMIKIUYA_20021231_20041231_ext.pdf	34,296	2010-10-01 11:32:08

Select a file

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_Tone_CHIDORI_20021231_20041231_ext.csv

種類: Microsoft Office Excel CSV ファイル, 493 KB

発信元: dias-dss.tkl.iis.u-tokyo.ac.jp

開く(O) 保存(S) キャンセル

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Download dialog

DIAS File download

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Global Earth Observation System of Systems (GEOSS)/ Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data

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CONTACTS

E-mail: editoria@editoria.u-tokyo.ac.jp
 Earth Observation Data Integration & Fusion Research Initiative(EDITORIA),
 The University of Tokyo, (River and Environmental Engineering Laboratory(REEL), Department of Civil Engineering, The University of Tokyo),
 Bunkyo-ku, Tokyo 113-8656, Japan

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- No Data Transfer to Third Parties

AWCI data policy is described at <http://monsoon.t.u-tokyo.ac.jp/AWCI/doc/DataPolicy.pdf>.

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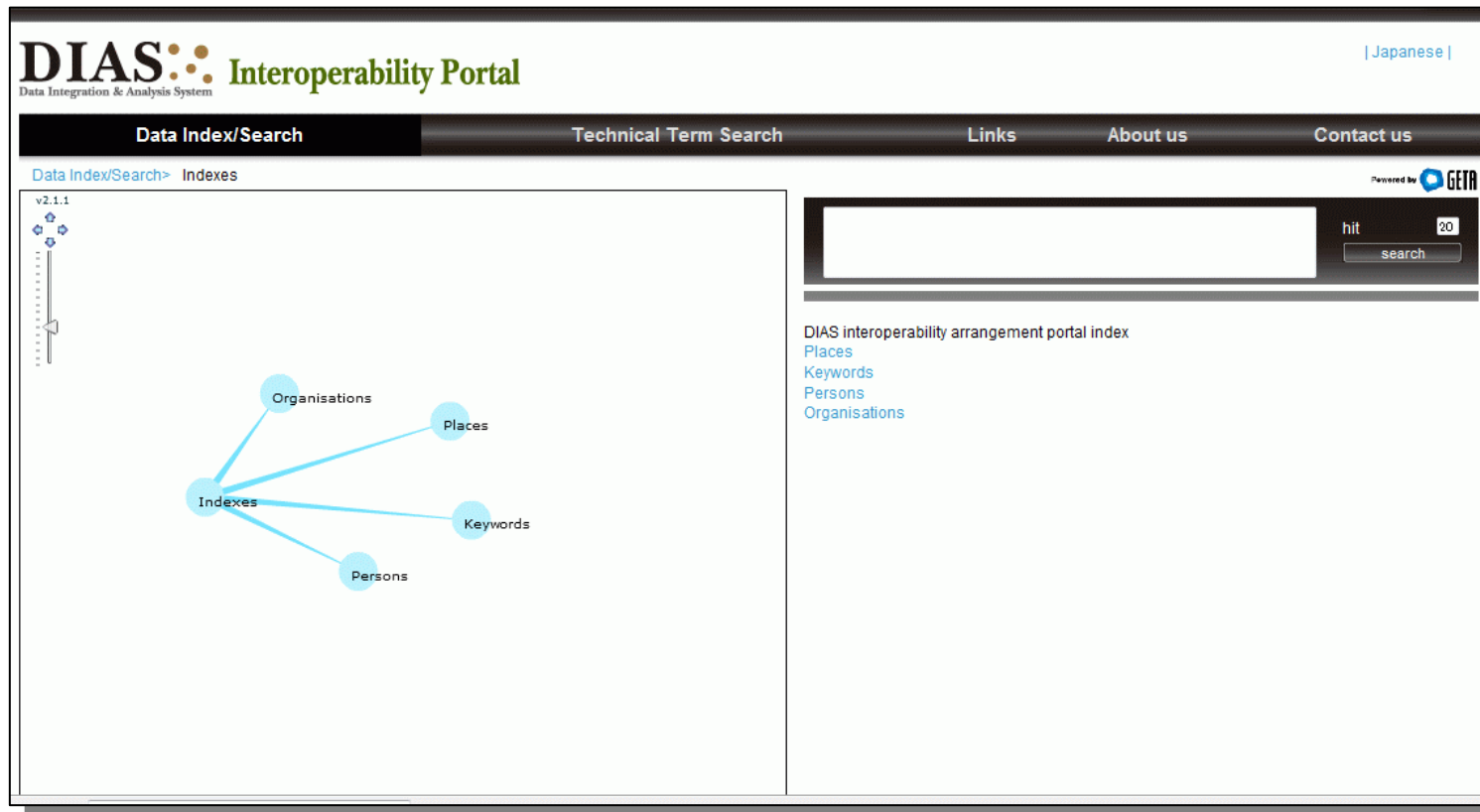
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Data policy for the dataset

DIAS Interoperability portal

- DIAS Interoperability portal provides **data/matadata search**, **technical term search** and **visualization of relations among dataset** to very large-scale and wide variety of earth observation data registered in the DIAS core system.
- <http://dias.csis.u-tokyo.ac.jp/op/en/>



The screenshot displays the DIAS Interoperability Portal interface. At the top left, the logo reads "DIAS Data Integration & Analysis System Interoperability Portal". A navigation bar includes "Data Index/Search", "Technical Term Search", "Links", "About us", and "Contact us". A language selector shows "| Japanese |". Below the navigation, the page title is "Data Index/Search > Indexes". On the left, a vertical scroll bar is labeled "v2.1.1". The main content area features a hub-and-spoke diagram with "Indexes" at the center, connected to "Organisations", "Places", "Keywords", and "Persons". To the right, there is a search box with a "hit" counter set to "20" and a "search" button. Below the search box, a list of links is provided: "DIAS interoperability arrangement portal index", "Places", "Keywords", "Persons", and "Organisations". A "Powered by GETA" logo is visible in the top right corner of the content area.

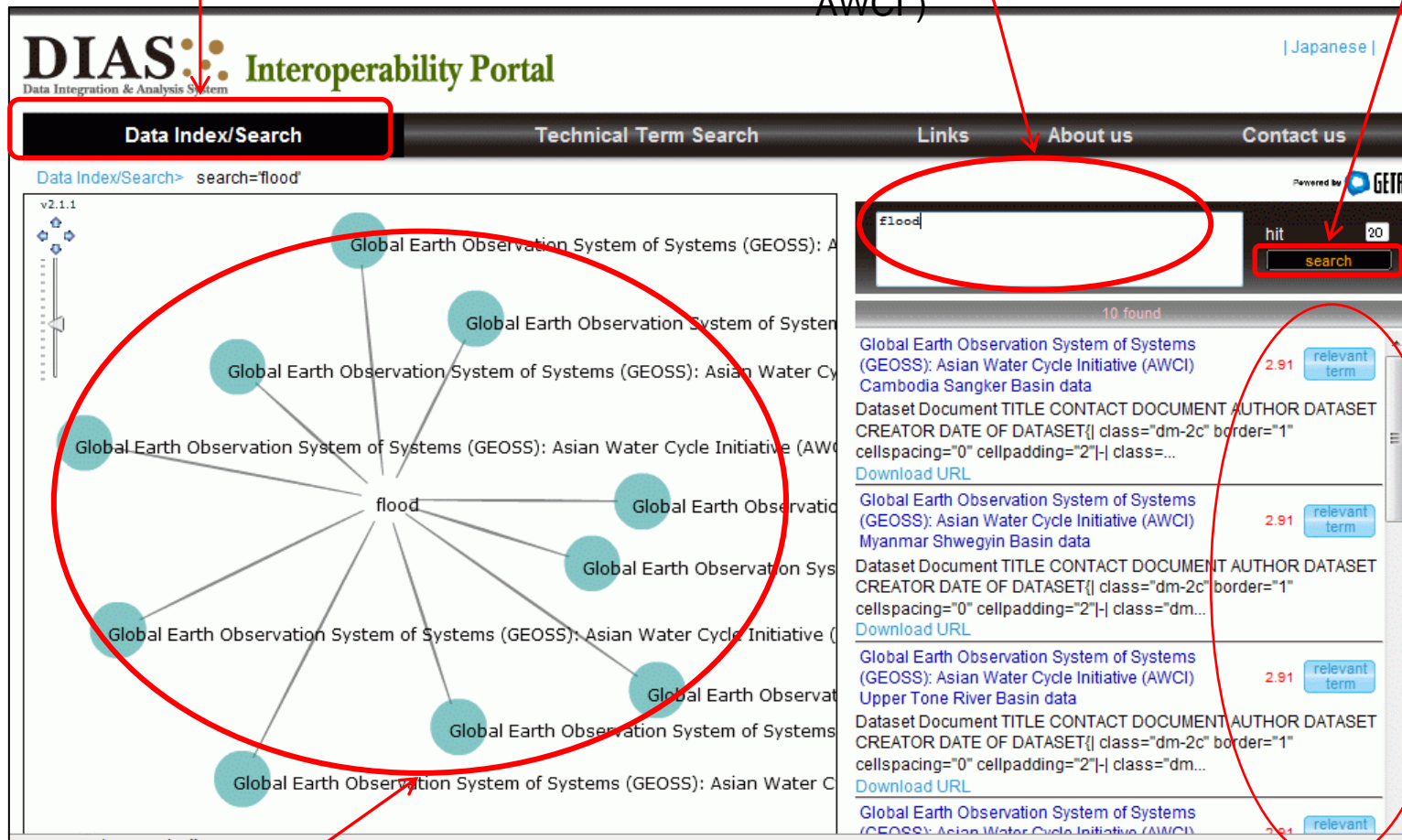
Data Index/Search (basic keyword search)

- Users can search DIAS dataset by using basic keyword search function.

① Select "Data Index/Search" tab

② Input keywords
(ex. "flood" or
"AWCI")

③ Push "search"



The screenshot shows the DIAS Interoperability Portal search interface. The 'Data Index/Search' tab is selected. The search input field contains the keyword 'flood' and the search button is highlighted. The search results show a network diagram of related datasets and a list of search results with similarity scores.

Search Results:

Global Earth Observation System of Systems (GEOSS): Asian Water Cycle Initiative (AWCI) Cambodia Sangker Basin data	2.91	relevant term
Global Earth Observation System of Systems (GEOSS): Asian Water Cycle Initiative (AWCI) Myanmar Shwegyin Basin data	2.91	relevant term
Global Earth Observation System of Systems (GEOSS): Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data	2.91	relevant term
Global Earth Observation System of Systems (GEOSS): Asian Water Cycle Initiative (AWCI) ...	2.91	relevant

④ Visualizing dataset related to the input keyword

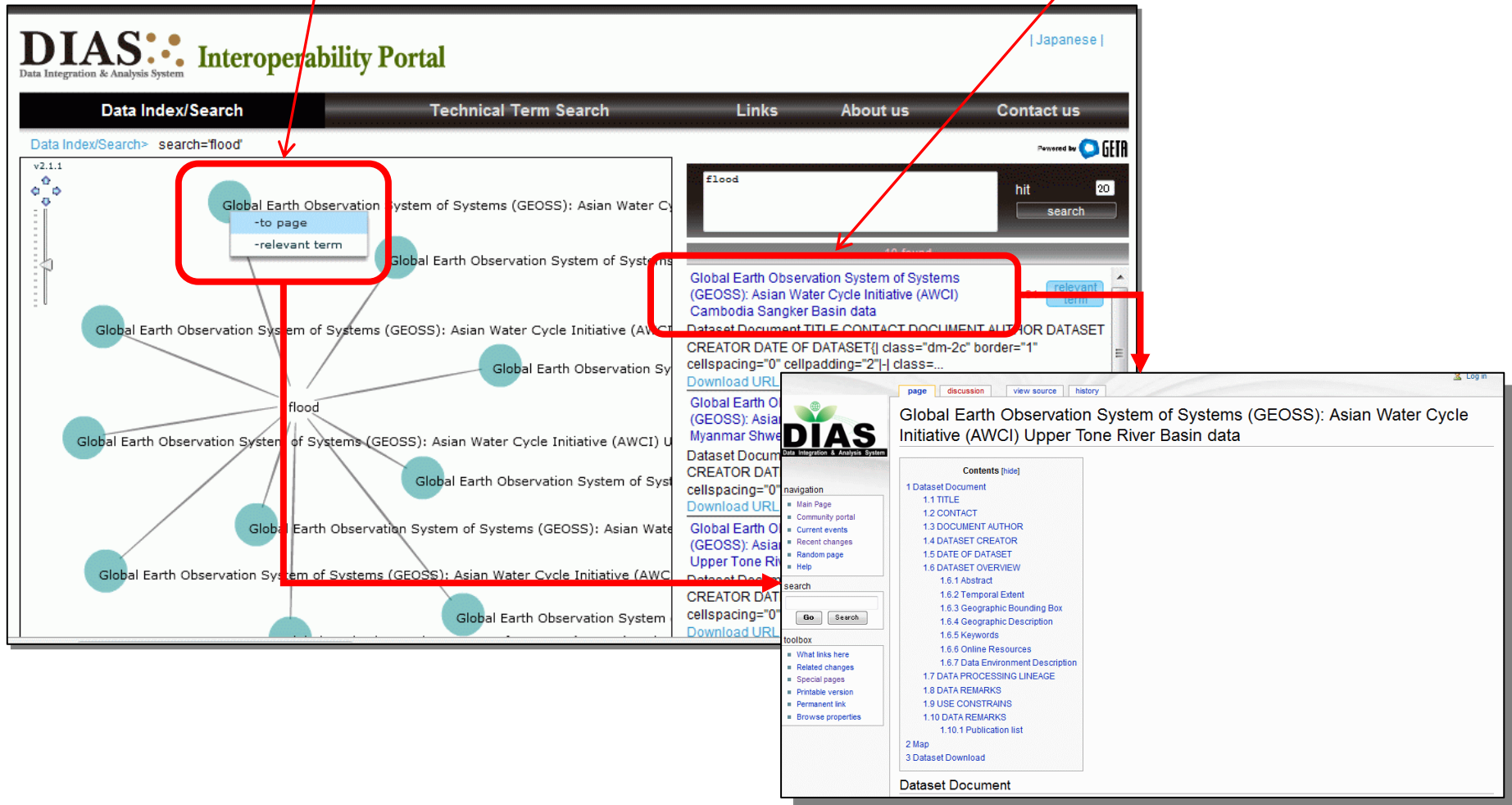
⑤ Similarity scores

Link to the DIAS metadata document

- DIAS Interoperability portal links to DIAS metadata included in Wiki System.

Case1: Click on a node and select "to page" in popup menu.

Case2: Click on a title in the list view.

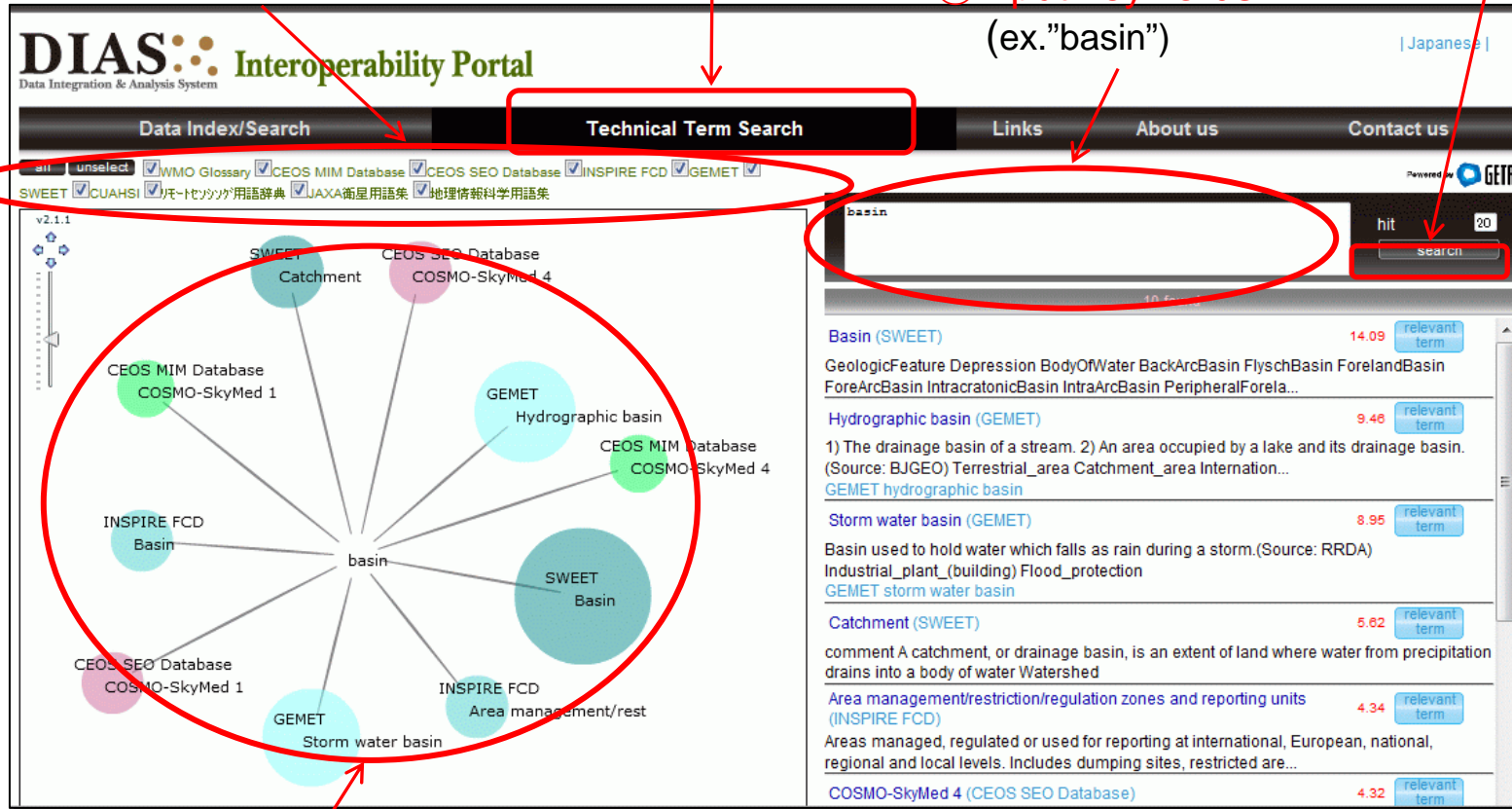


The screenshot displays the DIAS Interoperability Portal interface. At the top, the search bar contains 'flood' and shows 20 hits. The main content area features a network diagram with nodes representing various data sources. A red box highlights a node, and a popup menu is shown with the option 'to page' selected. Another red box highlights a title in the list view, and a red arrow points to the corresponding metadata document view. The metadata document view shows the title 'Global Earth Observation System of Systems (GEOSS): Asian Water Cycle Initiative (AWCI) Upper Tone River Basin data' and a list of contents including '1 Dataset Document', '1.1 TITLE', '1.2 CONTACT', '1.3 DOCUMENT AUTHOR', '1.4 DATASET CREATOR', '1.5 DATE OF DATASET', '1.6 DATASET OVERVIEW', '1.6.1 Abstract', '1.6.2 Temporal Extent', '1.6.3 Geographic Bounding Box', '1.6.4 Geographic Description', '1.6.5 Keywords', '1.6.6 Online Resources', '1.6.7 Data Environment Description', '1.7 DATA PROCESSING LINEAGE', '1.8 DATA REMARKS', '1.9 USE CONSTRAINTS', '1.10 DATA REMARKS', '1.10.1 Publication list', '2 Map', and '3 Dataset Download'.

Technical Term Search

- Users can check the definition of terms by using 'technical term search' function.

- Select "Technical Term Search" tab
- Select targets in list of ontologies, terminologies, glossaries and dictionaries.
- Input keywords (ex. "basin")
- Push "search"



The screenshot displays the DIAS Interoperability Portal interface. The 'Technical Term Search' tab is selected in the navigation menu. The search input field contains the keyword 'basin', and the search button is highlighted. The search results list includes terms like 'Basin (SWEET)', 'Hydrographic basin (GEMET)', 'Storm water basin (GEMET)', 'Catchment (SWEET)', 'Area management/restriction/regulation zones and reporting units (INSPIRE FCD)', and 'COSMO-SkyMed 4 (CEOS SEO Database)'. On the left, a network diagram visualizes the relationships between the input keyword 'basin' and related terms from different dictionaries.

- Visualizing terms in each dictionaries related to the input keyword

Imported vocabulary resources

- We have imported the following resources in DIAS Interoperability portal. Properly, we get permissions for our fair use from original resource providers.

No.	Name	Language	Data format
1	WMO Glossary	English	Web pages
2	CEOS Missions, Instruments and Measurements(MIM) Database	English	MS Excel
3	CEOS Systems Engineering Office(SEO)	English	MS Excel
4	GEMET (GEneral Multilingual Environmental Thesaurus)	English	RDF
5	INSPIRE((Infrastructure for Spatial Information in the European Community) Feature Concept Dictionary	English	Web pages
6	NASA SWEET	English	OWL
7	CUAHSI (Consortium of Universities for the Advancement of Hydrologic Science)	English	OWL
8	JAXA用語集 (JAXA glossary)	Japanese	Web pages
9	リモートセンシング用語集 (remote sensing glossary for Japanese RS academic society)	Japanese	Books (paper media)
10	GIS学会用語集 (GIS glossary for Japanese GIS academic society)	Japanese	MS Word

Comparing term definitions

- In this function, user can compare the definition of terms.
 - For example, after searching with the keyword 'basin' and then selecting 'to page' on the node 'basin' in INSPIRE (Infrastructure for Spatial Information in the European Community) and 'Hydrographic basin' in GEMET (General Multilingual Environmental Thesaurus), you can understand the difference between both resources.

Basin

From INSPIRE Registry (<http://inspire-registry.jrc.ec.europa.eu/>)

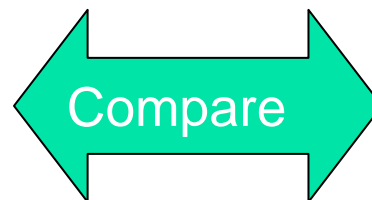
Special type of catchment area which always has an outflow point in the sea, whilst catchments may outflow into e.g. a larger river, lake or other catchment.

Status
Valid

Date Accepted
05-Dec-08

relations

Category: Spatial object type



Hydrographic basin

From EIONET GEMET Thesaurus (<http://www.eionet.europa.eu/gemet/>)

1) The drainage basin of a stream. 2) An area occupied by a lake and its drainage basin. (Source: BJGEO)

[GEMET hydrographic basin](#)

relations
Terrestrial area Catchment area International river basin River basin development Watercourse

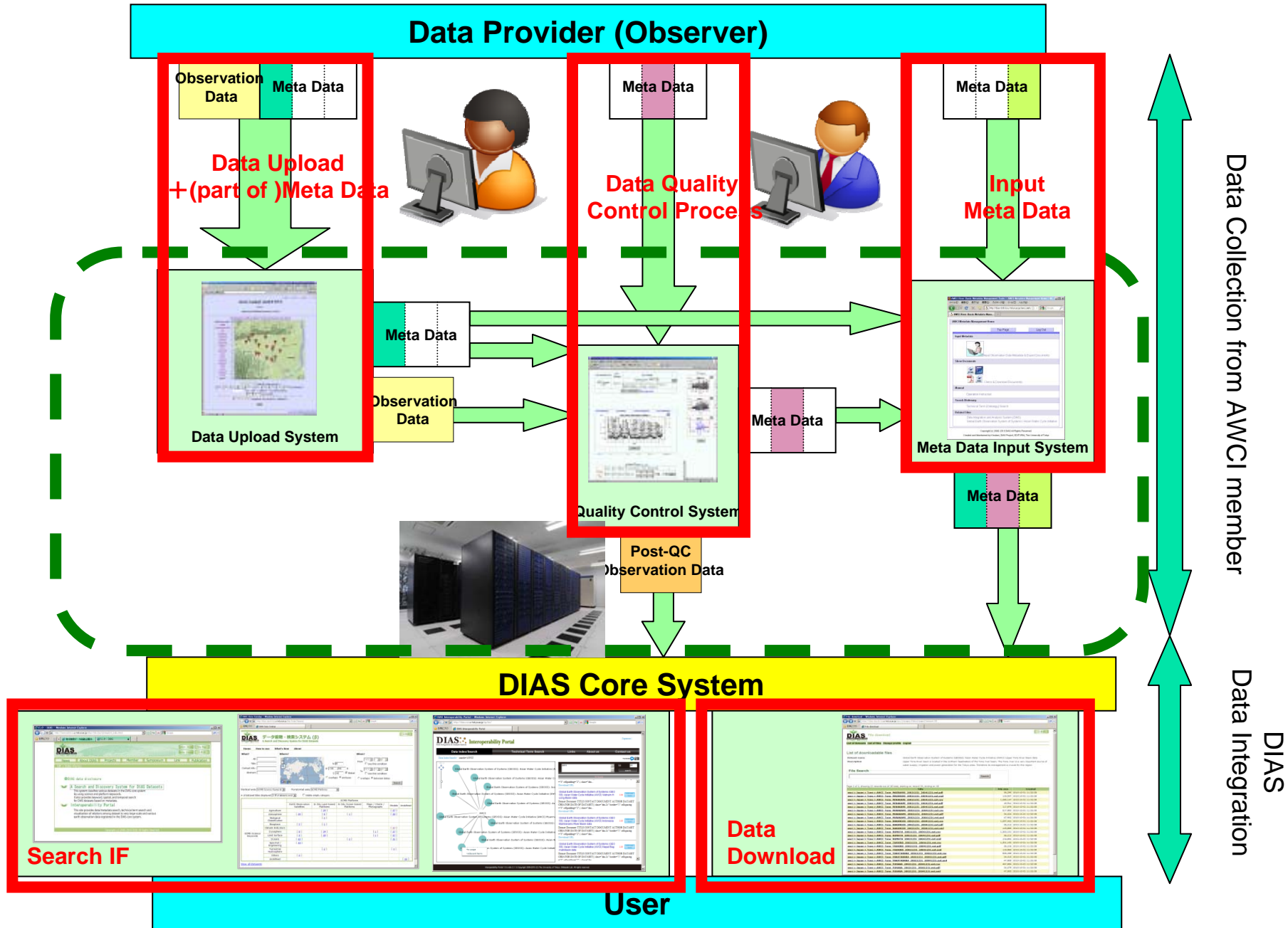
Facts about Hydrographic basin

Broader terms: Terrestrial area +

Narrower terms: Catchment area +, International river basin +, and River basin development +

Related terms: Watercourse +

Categories: LAND (landscape, geography) | Theme/geography | Theme/natural areas, landscape, ecosystems | Theme/water



Data Archiving Status of Each Country (as of 101004)



Station Name	Data Uploading	Quality Controlling	Document Metadata	Obs. Data Metadata
Bangladesh	Complete	Ongoing		
Bhutan	Complete	Ongoing		
Cambodia	Complete	Complete	Complete	Ongoing
India	Complete	Complete	Complete	
Indonesia	Complete	Complete	Complete	
Japan	Complete	Complete	Complete	Complete
Korea	Complete	Complete	Complete	Complete
Lao PDR	Ongoing			
Malaysia	Ongoing			
Mongolia	Complete	Ongoing		
Myanmar	Complete	Complete	Complete	Complete
Nepal	Complete	Complete	Complete	Complete
Pakistan	Complete	Ongoing		
Philippines	Complete	Ongoing		
Sri Lanka	Complete	Complete	Complete	Complete
Thailand	Complete	Complete	Complete	Complete
Uzbekistan	Complete	Complete	Complete	Ongoing
Vietnam	Complete	Complete	Complete	Complete