Development of Data Integration and Analysis System (DIAS)

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and

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****Institute of Industrial Science, UT**

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Outline

1. Outline of DIAS System
2. Introduction of Data Upload, Quality Control, and Meta-Data Registration System

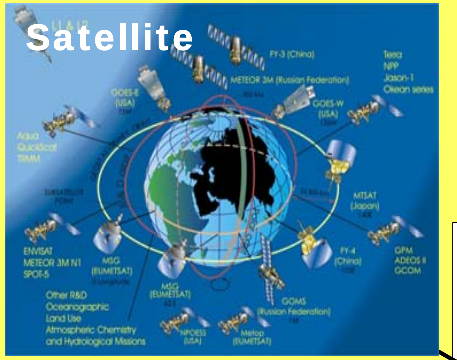
3. Introduction of CEOP Satellite Data Gateway system
4. Applications on DIAS System

What is DIAS?

- Since 2006, as part of the Earth Observation and Ocean Exploration System, which is one of five National Key Technologies defined by the 3rd Basic Program for Science and Technology of Japan.

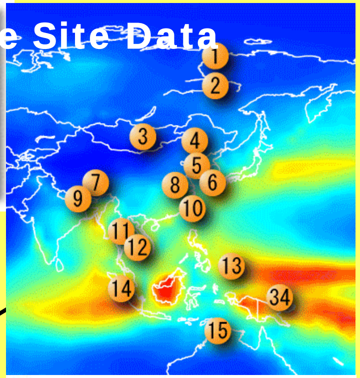
DIAS

- Cooperation among the Observer, IT and Users -



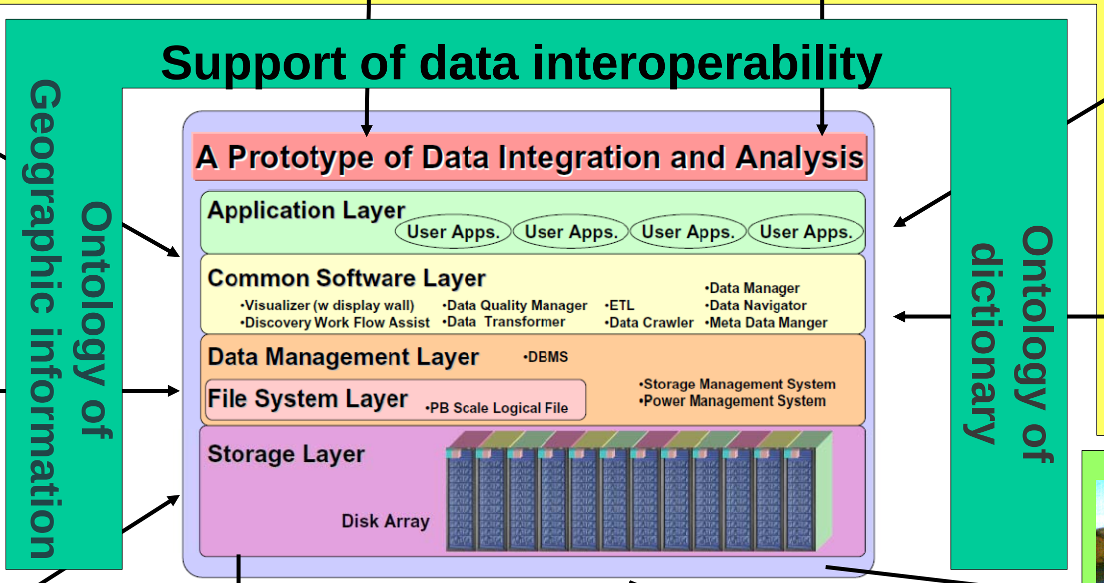
Satellite

River Management data



Reference Site Data

GIS / Basin Info.



Support of data interoperability

Ontology of Geographic information

Ontology of dictionary

A Prototype of Data Integration and Analysis

Application Layer

User Apps. User Apps. User Apps. User Apps.

Common Software Layer

- Visualizer (w display wall)
- Discovery Work Flow Assist
- Data Quality Manager
- Data Transformer
- ETL
- Data Crawler
- Data Manager
- Data Navigator
- Meta Data Manger

Data Management Layer

- DBMS
- Storage Management System
- Power Management System

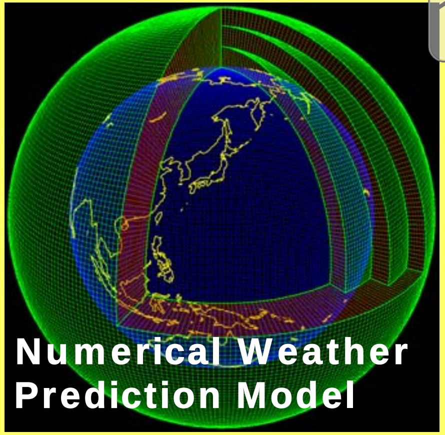
File System Layer

- PB Scale Logical File

Storage Layer

Disk Array

12. Chao-Phraya River



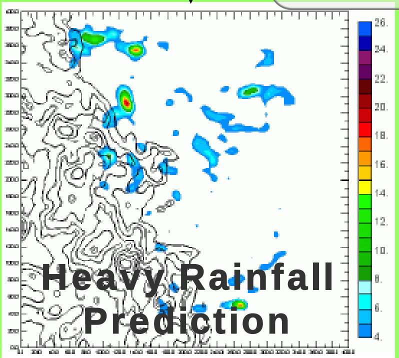
Numerical Weather Prediction Model

Satellite Data Assimilation

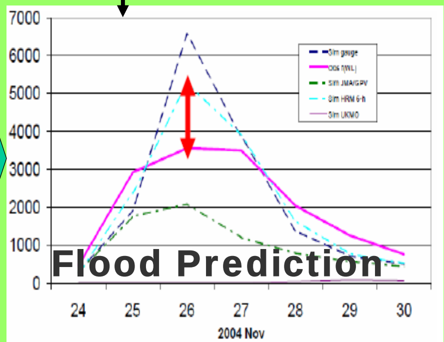
Distributed Hydrological Model

Operation Optimization

Water Resource Management



Heavy Rainfall Prediction



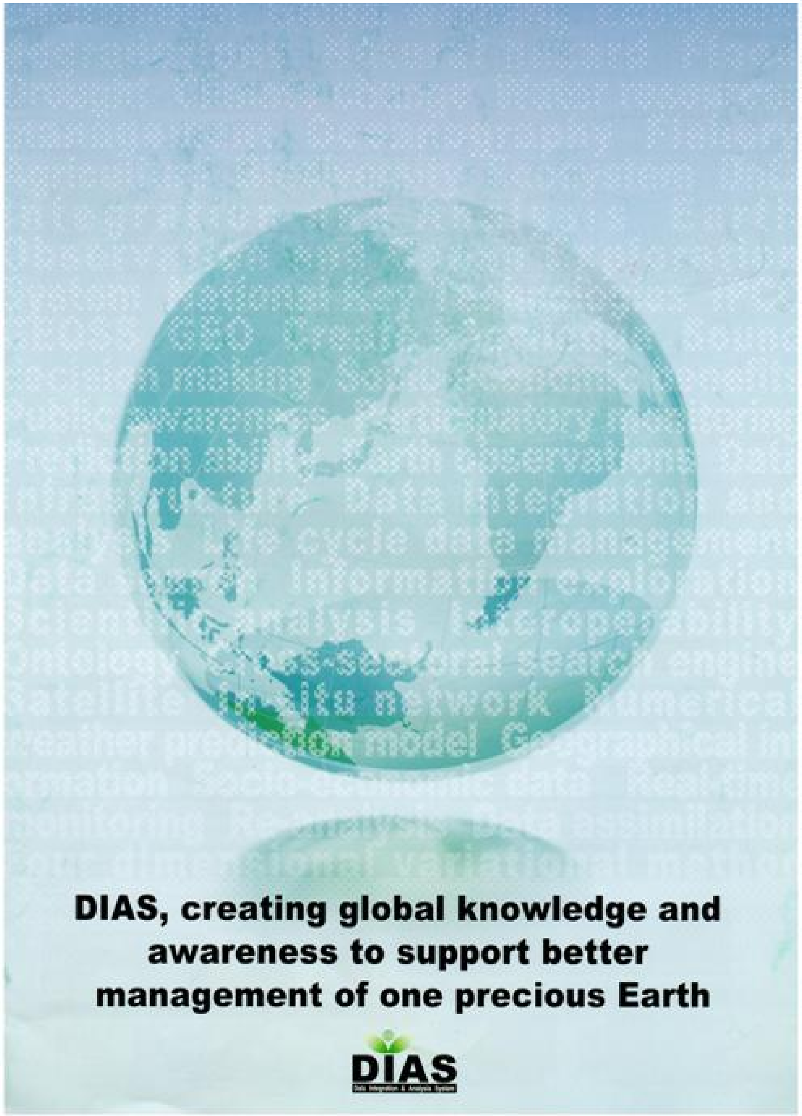
Flood Prediction

Flood / Inundations → Evacuation Instruction

The mission of DIAS

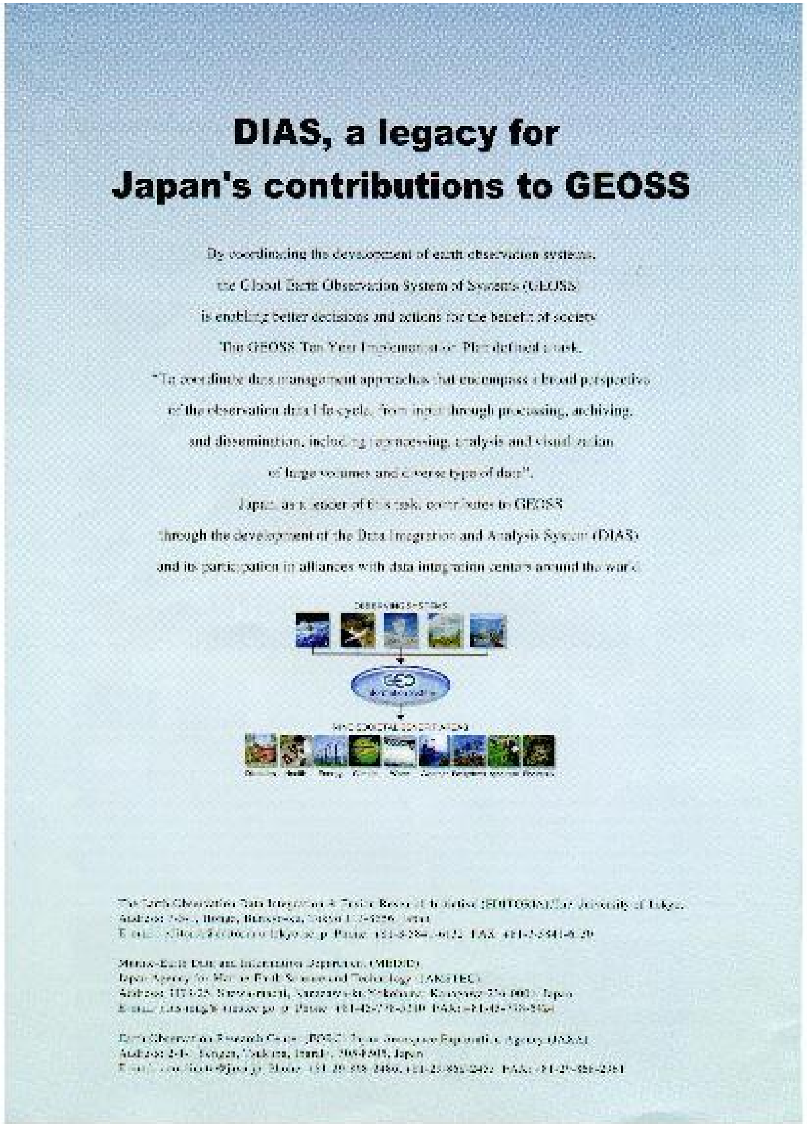
- to coordinate the cutting-edge information science and technology and the various research fields addressing the earth environment;
- to construct data infrastructure that can integrate earth observation data, numerical model outputs, and socio-economic data effectively;
- to create knowledge enabling us to solve the earth environment problems; and
- to generate socio-economic benefits.

In detail about DIAS, Please see



DIAS, creating global knowledge and awareness to support better management of one precious Earth

DIAS

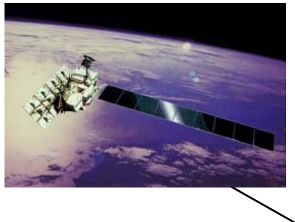


DIAS, a legacy for Japan's contributions to GEOSS

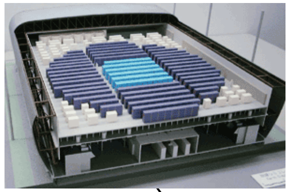
By coordinating the development of earth observation systems,
the Global Earth Observation System of Systems (GEOSS)
is enabling better decisions and actions for the benefit of society.
The GEOSS Ten Year Implementation Plan defined a task,
"To coordinate data management approaches that encompass a broad perspective
of the observation data life cycle, from input through processing, archiving,
and dissemination, including reprocessing, analysis and visualization
of large volumes and diverse types of data".
Japan, as a leader of this task, contributes to GEOSS
through the development of the Data Integration and Analysis System (DIAS)
and its participation in alliances with data integration centers around the world.

Data Integration on
DIAS Core System

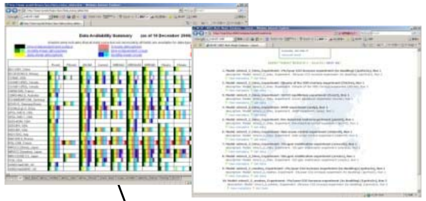
satellite



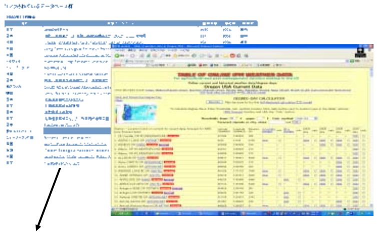
simulation



project



operational network



land

ocean

DIAS Core System

Application Layer

User Apps. User Apps. User Apps. User Apps. User Apps.

Common Software

- Visualizer(w display wall)
- Discovery Work Flow Assist
- Data Quality Manager
- Data Transformer
- Data Crawler
- ETL
- Data Manager
- Data Navigator
- Meta Data Manger

Data Management Layer

- DBMS
- Storage Management System
- Power management System

File System Layer

Storage Layer

Disk Array

Tape Library

Storage System Structure

DIAS Storage System

- Connect to Dual 8-way Itanium2 Server
- 5-subsystem(Storage)
- Read 2.4GB/s/subsystem, total 12GB/s
- ≒ 1PB capacity HDD
- Advanced power management
  - Automatically turn off the power of idle part
  - Automatically turn on the power when accessed

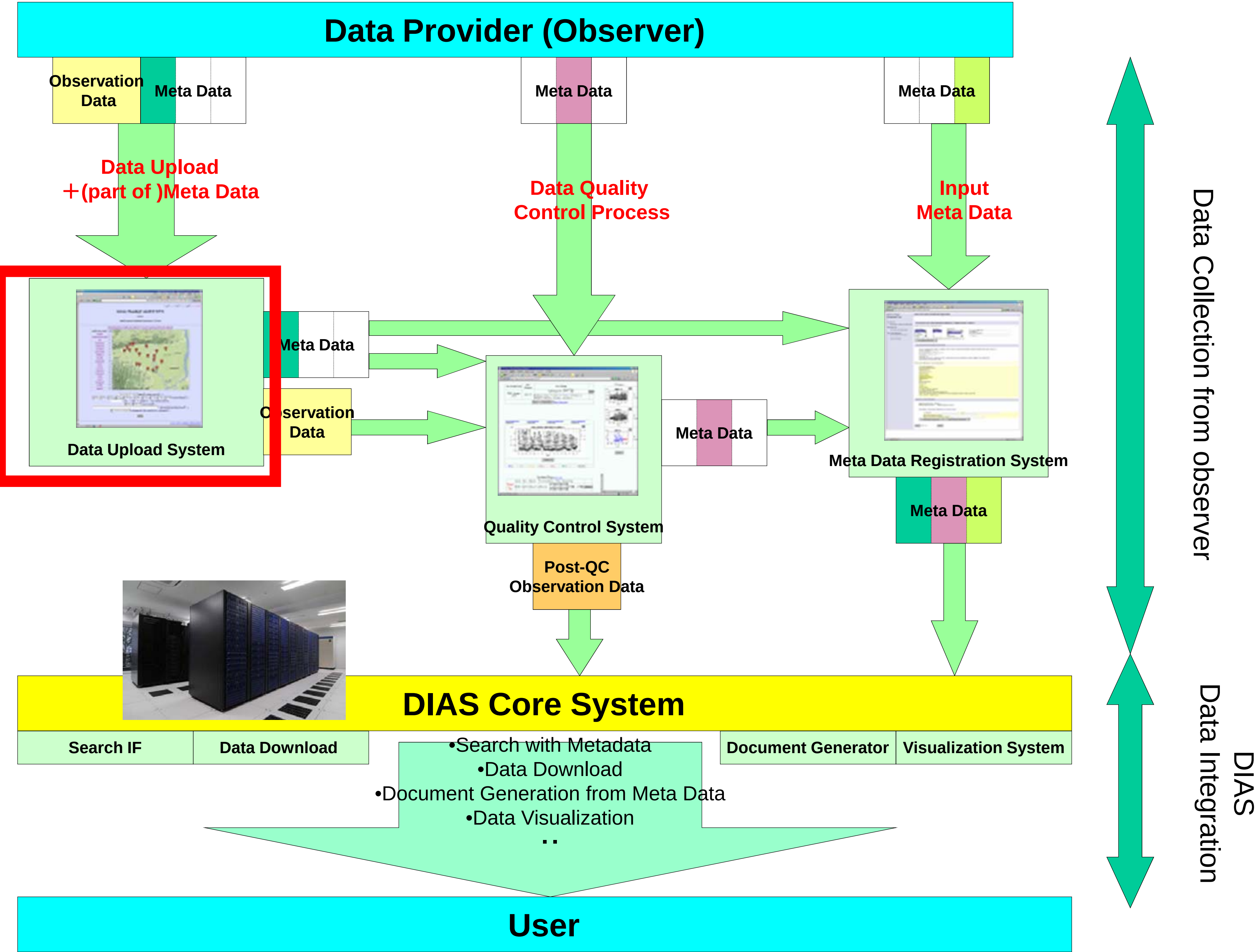
New Installation around Petabyte-scale Storage at Institute of Industrial Science, U-Tokyo

Outline

1. **Outline of DIAS System**
2. Introduction of **Data Upload, Quality Control, and Meta-Data Registration System**

3. Introduction of CEOP Satellite Data Gateway system
4. Applications on DIAS System

Observation Data Upload and DIAS Core System



Data Provider (Observer)

Observation Data

Meta Data

Data Upload
＋(part of)Meta Data

Data Quality
Control Process

Input
Meta Data

Data Upload System

Quality Control System

Meta Data Registration System

Post-QC
Observation Data

DIAS Core System

Search IF

Data Download

Document Generator

Visualization System

- Search with Metadata
- Data Download
- Document Generation from Meta Data
- Data Visualization

・・

User

Data Collection from observer

DIAS
Data Integration

Observation Data **Upload** System

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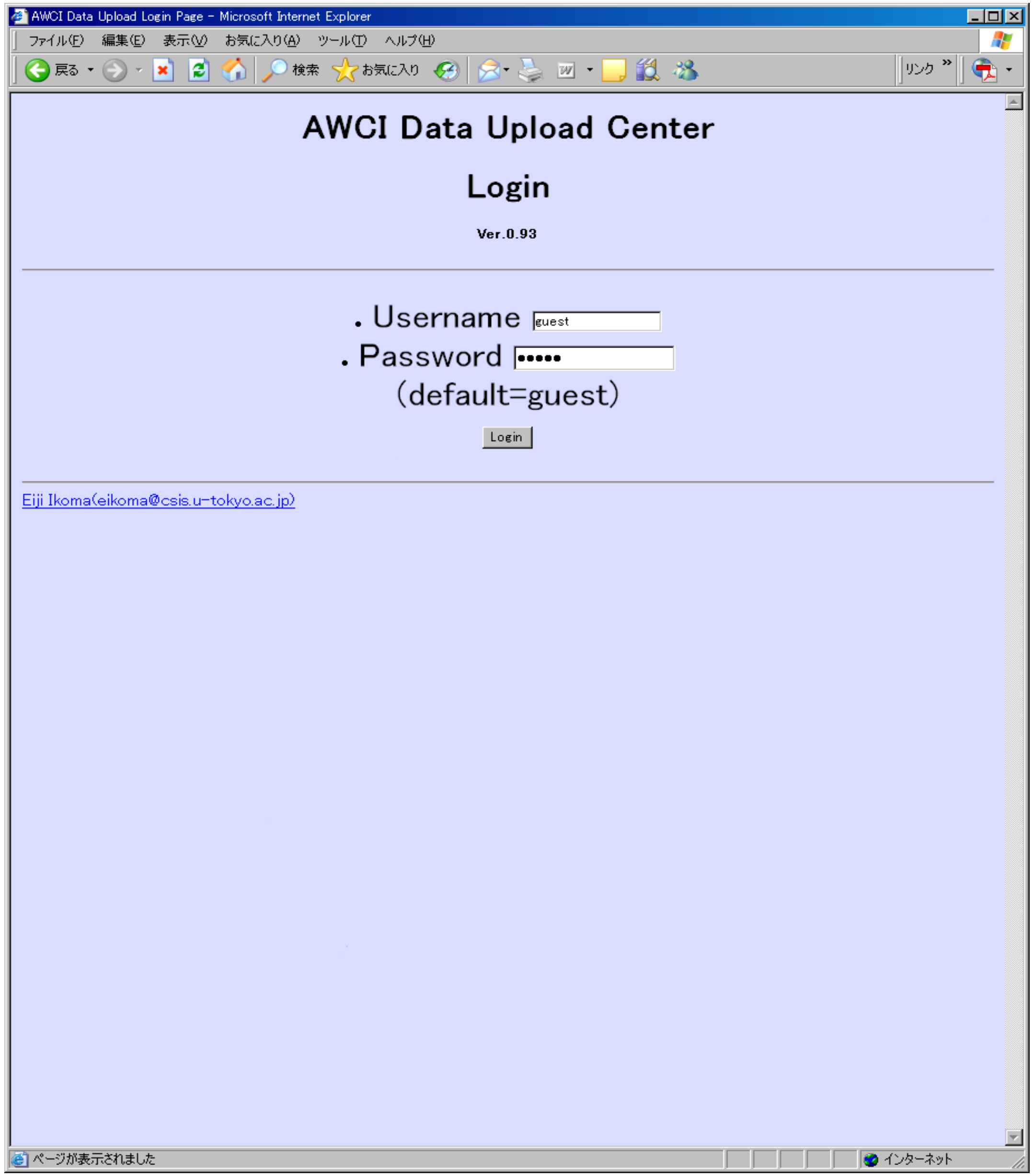
Tetsu Ohta, Toshio Koike, Masaru Kitsuregawa

Data Upload System

- Observers can upload observation data and input some Metadata on Web Interface consisted of 4 steps.
- Easy Operation and Quick Response.
- This system has some function which reduce the complicatedness of upload process

Login Page


AWCI Data Upload Login Page - 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
リンク
Login
ページが表示されました
インターネット

AWCI Data Upload Center

Login

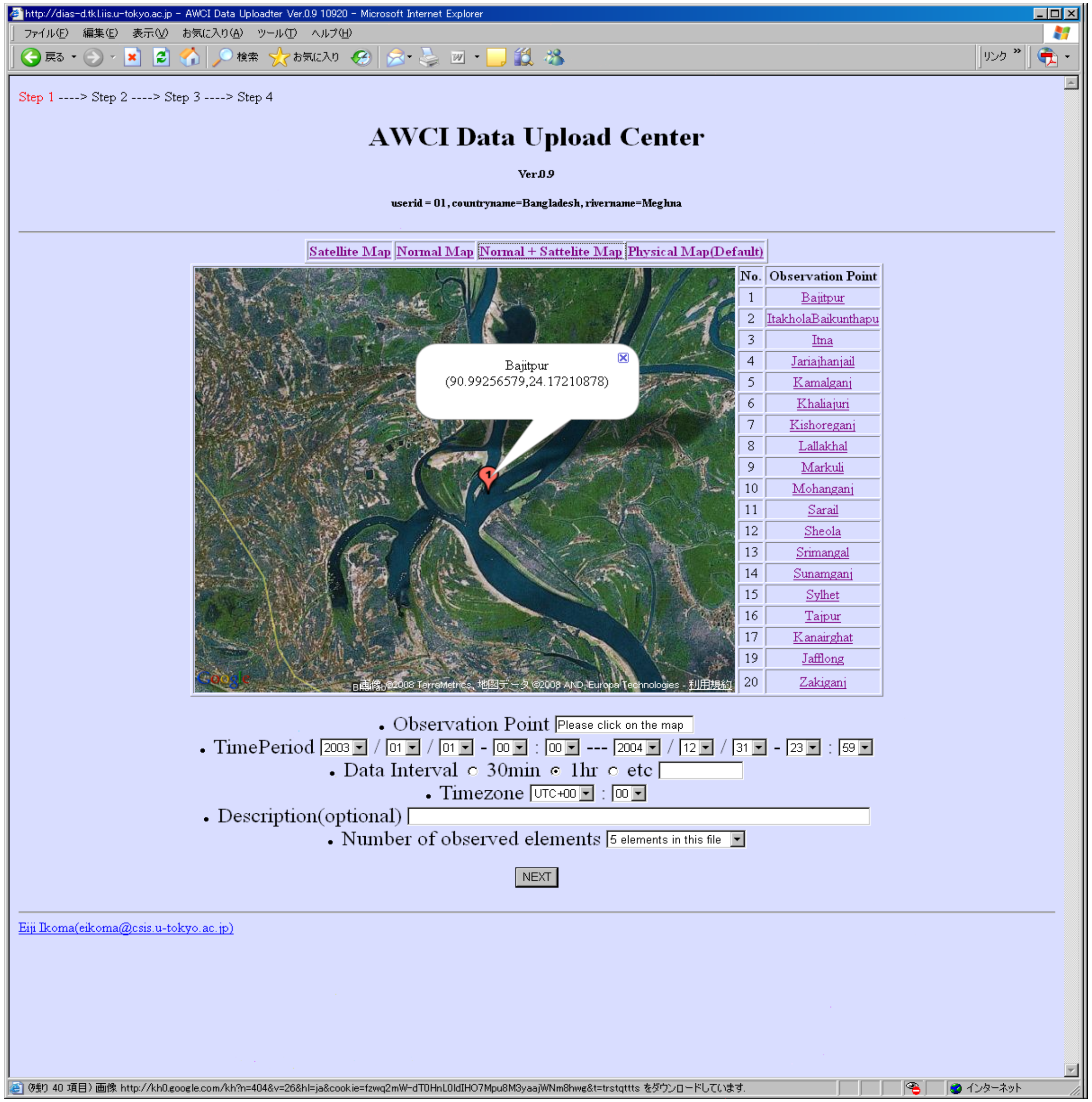
Ver.0.93

. Username guest
. Password •••••
(default=guest)

Eiji Ikoma(eikoma@csis.u-tokyo.ac.jp)

- Username and Password are required.
- Each observation site manager has it own (unique) username and password.

STEP1



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

AWCI Data Upload Center

Ver.0.9

userid = 01, countryname=Bangladesh, rivername=Meghna

Satellite Map | Normal Map | Normal + Sattelite Map | Physical Map(Default)

Bajitpur
(90.99256579,24.17210878)

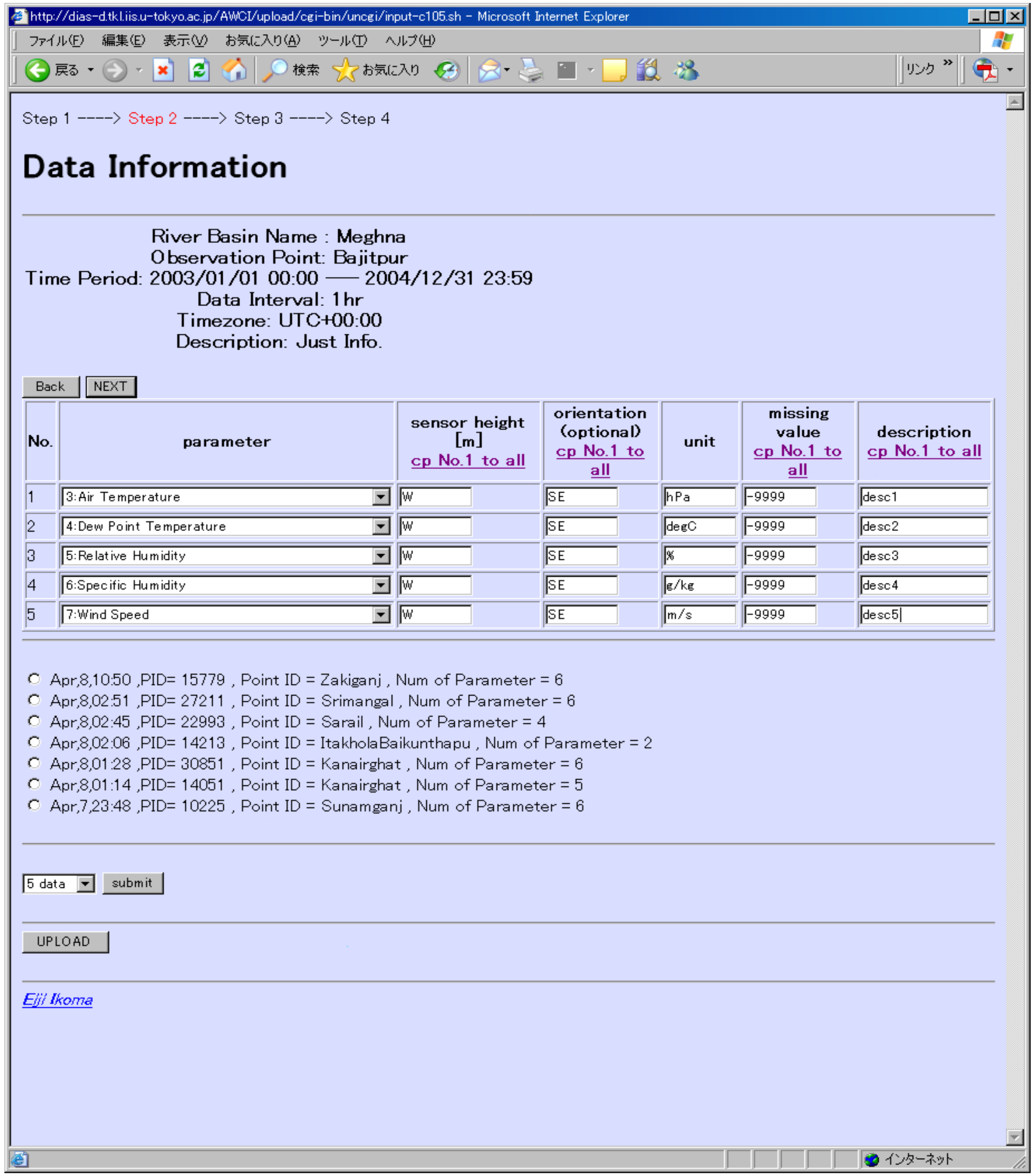
No.	Observation Point
1	Bajitpur
2	ItakholaBaikunthapu
3	Itna
4	Jariajhanjail
5	Kamalganj
6	Khaliajuri
7	Kishoreganj
8	Lallakhal
9	Markuli
10	Mohanganj
11	Sarail
12	Sheola
13	Srimangal
14	Sunamganj
15	Sylhet
16	Tajpur
17	Kanairghat
19	Jafflong
20	Zakiganj

- Observation Point: Please click on the map
- TimePeriod 2003 / 01 / 01 - 00 : 00 --- 2004 / 12 / 31 - 23 : 59
- Data Interval ○ 30min ● 1hr ○ etc
- Timezone UTC+00 : 00
- Description(optional)
- Number of observed elements: 5 elements in this file

http://dias-d.tkl.iis.u-tokyo.ac.jp - AWCI Data Uploadter Ver.0.9 10920 - 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
画像 ©2008 TerraMetrics、地図データ ©2008 AND, Europa Technologies - 利用規約
NEXT
Eiji Ikoma(eikoma@csis.u-tokyo.ac.jp)

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

STEP2


http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/upload/cgi-bin/uncgi/input-c105.sh - 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
リンク
インターネット

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

Data Information

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.

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	W	SE	hPa	-9999	desc1
2	4:Dew Point Temperature	W	SE	degC	-9999	desc2
3	5:Relative Humidity	W	SE	%	-9999	desc3
4	6:Specific Humidity	W	SE	g/kg	-9999	desc4
5	7:Wind Speed	W	SE	m/s	-9999	desc5

○ Apr,8,10:50 ,PID= 15779 , Point ID = Zakiganj , Num of Parameter = 6
○ Apr,8,02:51 ,PID= 27211 , Point ID = Srimangal , Num of Parameter = 6
○ Apr,8,02:45 ,PID= 22993 , Point ID = Sarail , Num of Parameter = 4
○ Apr,8,02:06 ,PID= 14213 , Point ID = ItakholaBaikunthapu , Num of Parameter = 2
○ Apr,8,01:28 ,PID= 30851 , Point ID = Kanairghat , Num of Parameter = 6
○ Apr,8,01:14 ,PID= 14051 , Point ID = Kanairghat , Num of Parameter = 5
○ Apr,7,23:48 ,PID= 10225 , Point ID = Sunamganj , Num of Parameter = 6

5 data submit

UPLOAD

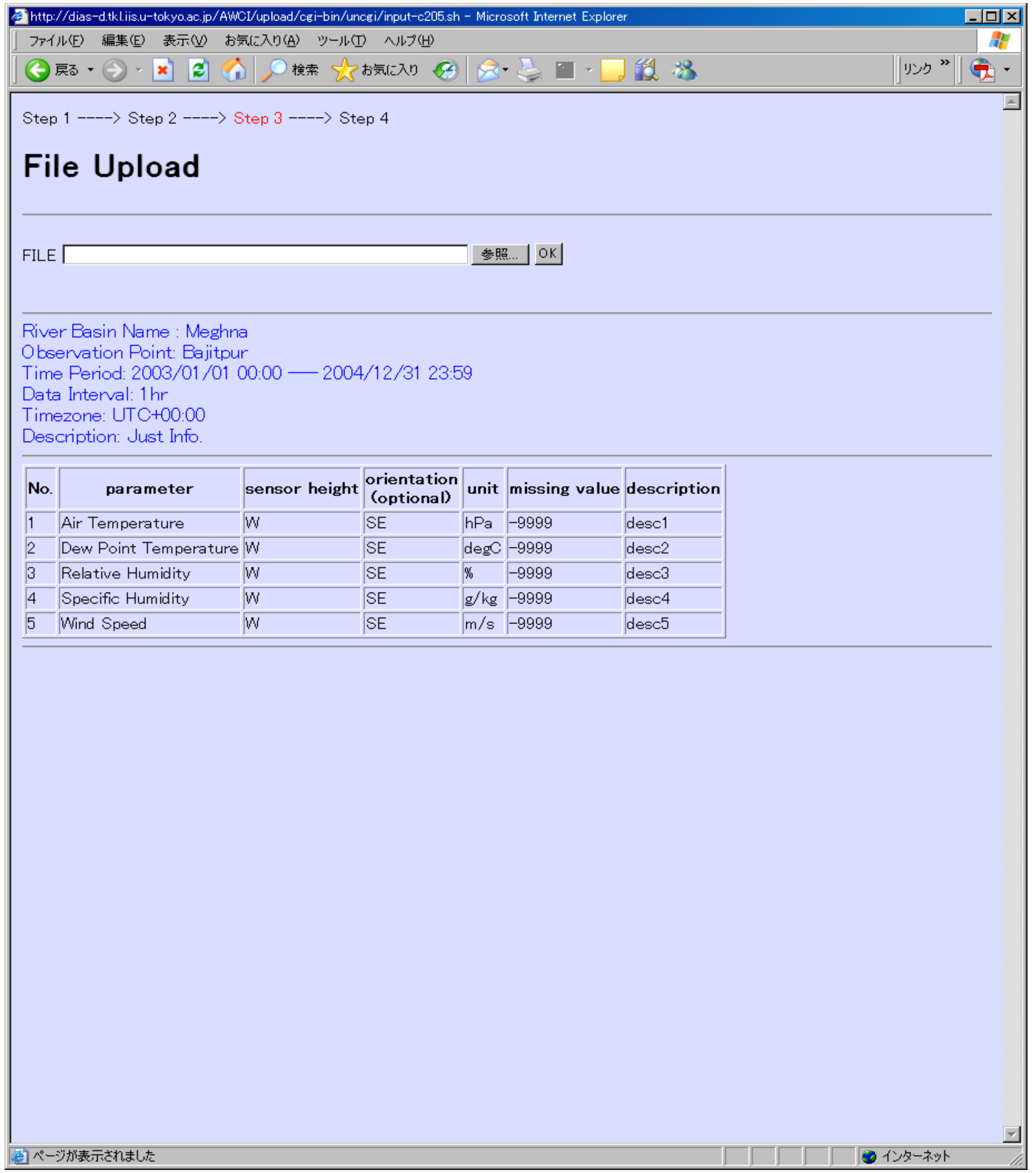
Eiji Ikoma

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

1. **Copy from No.1 to all**
2. **Unit = Input Automatically when you choose observation data**

3. **Copy from former inputted data**
4. **Modify the num of observation data**
5. **Upload from prepared csv file**

STEP3


http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/upload/cgi-bin/uncgi/input-c205.sh - 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
リンク
ページが表示されました
インターネット

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

File Upload

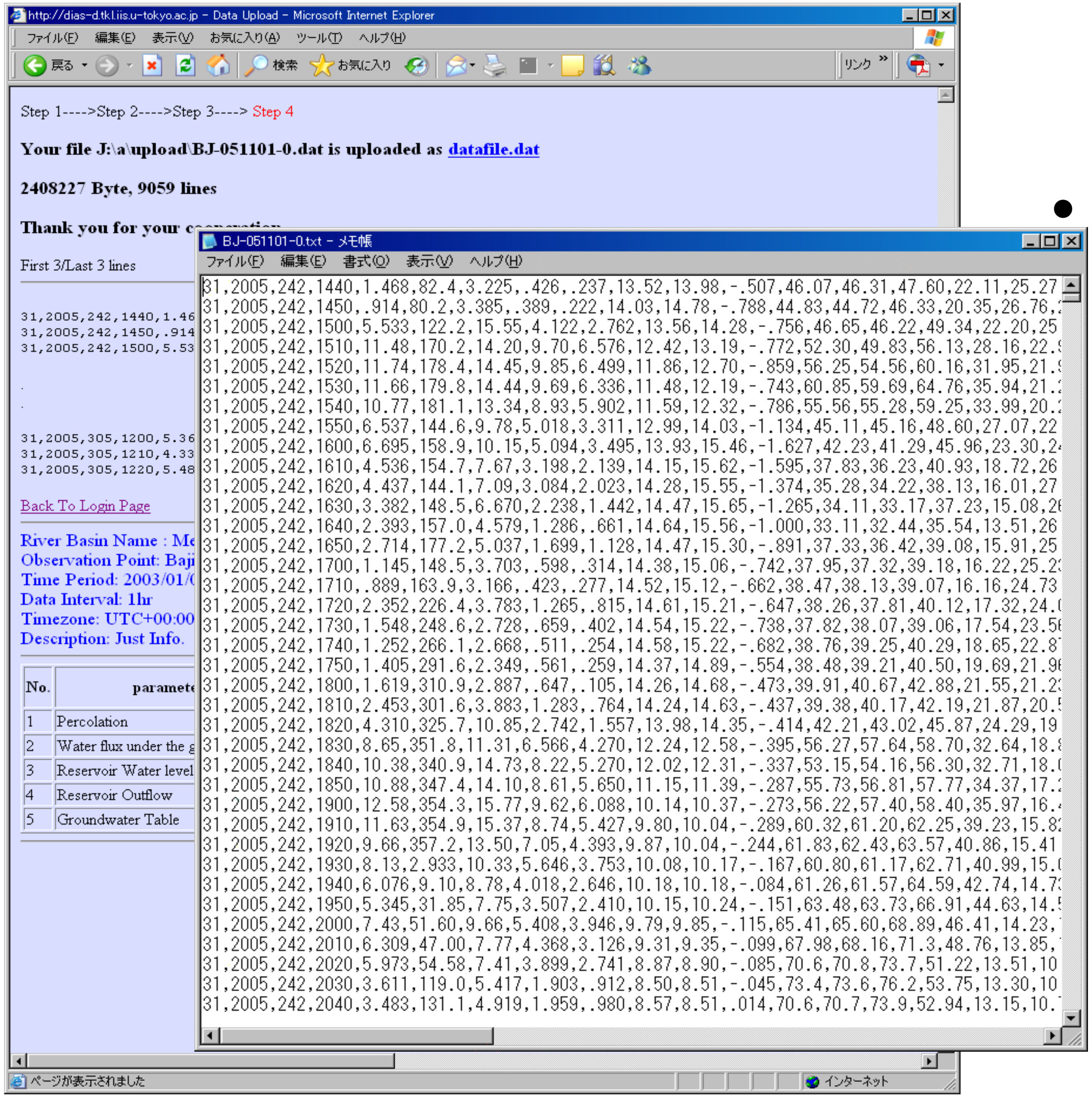
FILE 参照... OK

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

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

STEP 4


http://dias-d.tkl.iis.u-tokyo.ac.jp - Data Upload - 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
リンク
BJ-051101-0.txt - メモ帳
ファイル(F) 編集(E) 書式(O) 表示(V) ヘルプ(H)
ページが表示されました
インターネット

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

Your file J:\a\upload\BJ-051101-0.dat is uploaded as datafile.dat

2408227 Byte, 9059 lines

Thank you for your c

First 3/Last 3 lines

```
31,2005,242,1440,1.46
31,2005,242,1450,.914
31,2005,242,1500,5.53
.
.
31,2005,305,1200,5.36
31,2005,305,1210,4.33
31,2005,305,1220,5.48
```

Back To Login Page

River Basin Name : Me
Observation Point: Baji
Time Period: 2003/01/
Data Interval: 1hr
Timezone: UTC+00:00
Description: Just Info.

No.	paramete
1	Percolation
2	Water flux under the g
3	Reservoir Water level
4	Reservoir Outflow
5	Groundwater Table

```
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31,2005,242,2040,3.483,131.1,4.919,1.959,.980,8.57,8.51,.014,70.6,70.7,73.9,52.94,13.15,10.
```
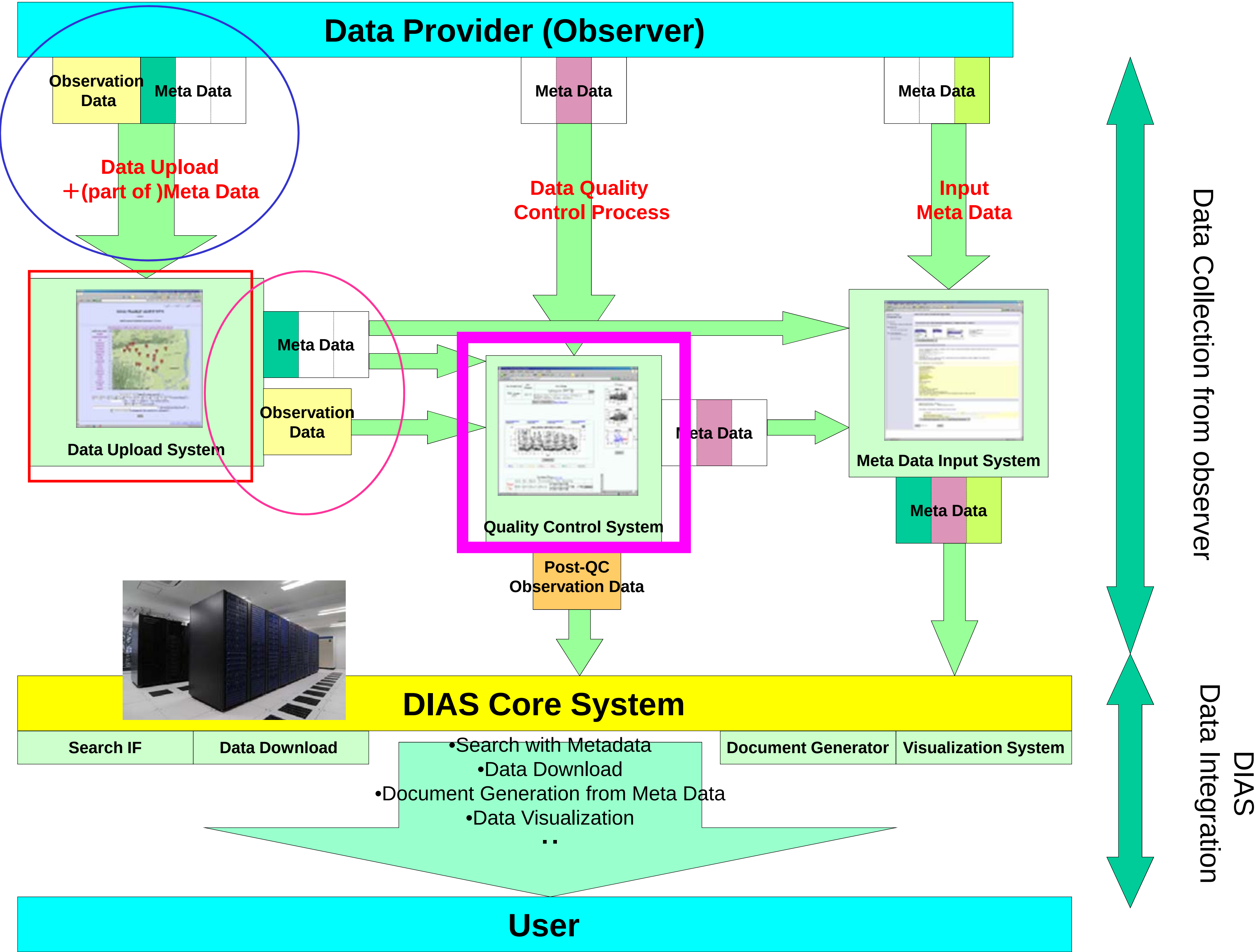

- Confirmation of
  - local path of uploaded file
  - contents of the file (first/last 3lines and all lines when you require)
  - All metadata inputted at STEP1,2,3

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

AWCI Data Upload and DIAS Core System



Data Provider (Observer)

Observation Data | Meta Data

Data Upload
＋(part of)Meta Data

Meta Data

Data Quality
Control Process

Meta Data

Input
Meta Data

Data Upload System

Meta Data

Observation Data

Quality Control System

Meta Data

Meta Data Input System

Meta Data

Post-QC
Observation Data

DIAS Core System

Search IF | Data Download | Document Generator | Visualization System

- Search with Metadata
- Data Download
- Document Generation from Meta Data
- Data Visualization

・・

User

Data Collection from observer

DIAS
Data Integration

Data Quality Control(QC) System

Eiji Ikoma, Katsunori Tamagawa,
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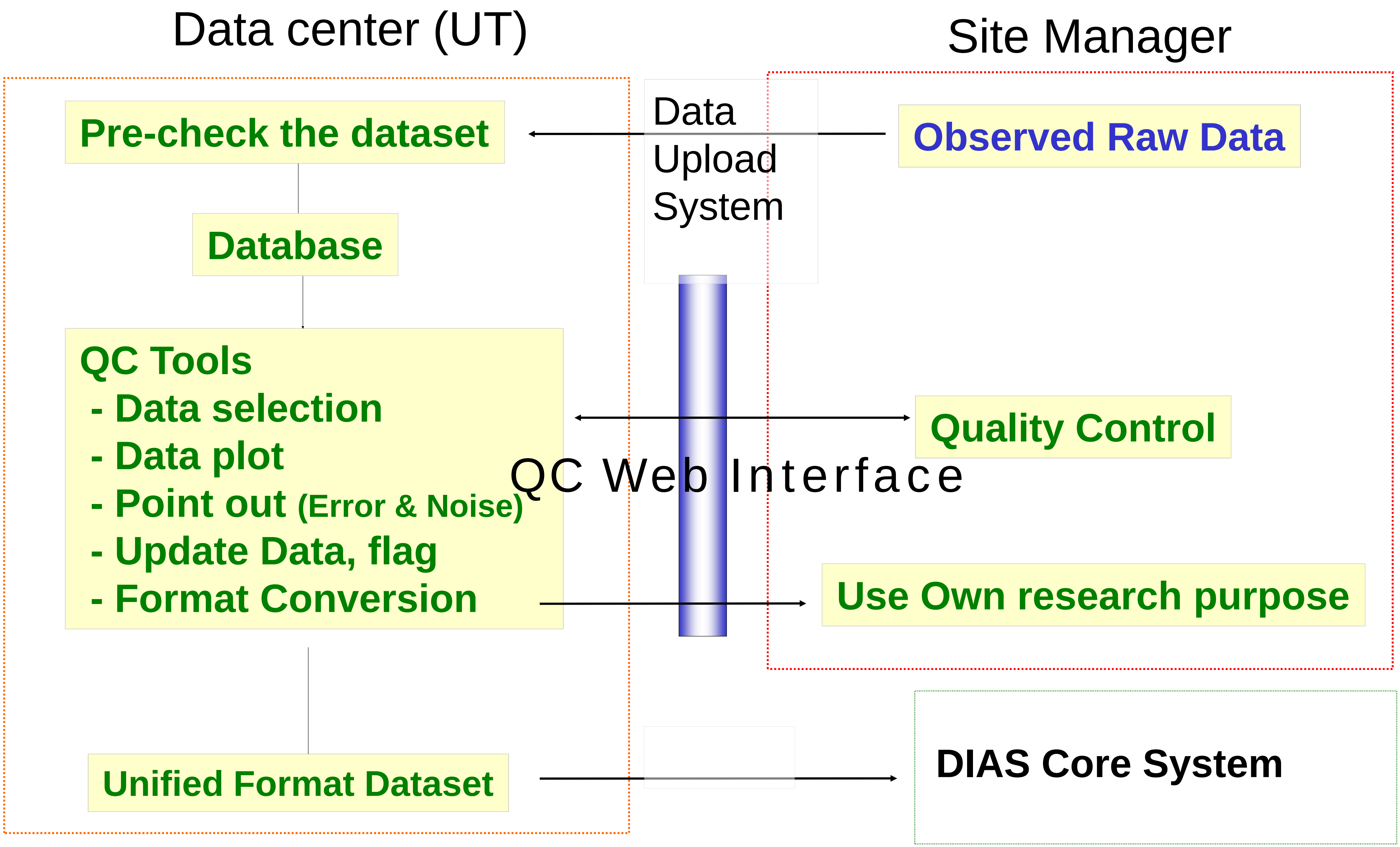
Our QC System

- First version of our QC System was developed for CEOP Data in 2004.
- Ver.1(2004-2005) for → Ver.2(2005-2006) → Ver.3(2007-)
- 13site(Ver.1)→ 25site(Ver.2)→Ver.3
- We are running QC-V3 system for CEOP Observation Data.

Features of our QC system

- Web-based UI (required only Web browser)
- Easy-to-use and light operation
- Data management mechanism for each user authority
- Post-QC Data download support system
- Progress Management system for Data Manager

Outline of QC Process



Data center (UT)

Site Manager

Data Upload System

Pre-check the dataset

Observed Raw Data

Database

QC Tools
- **Data selection**
- **Data plot**
- **Point out (Error & Noise)**
- **Update Data, flag**
- **Format Conversion**

Quality Control

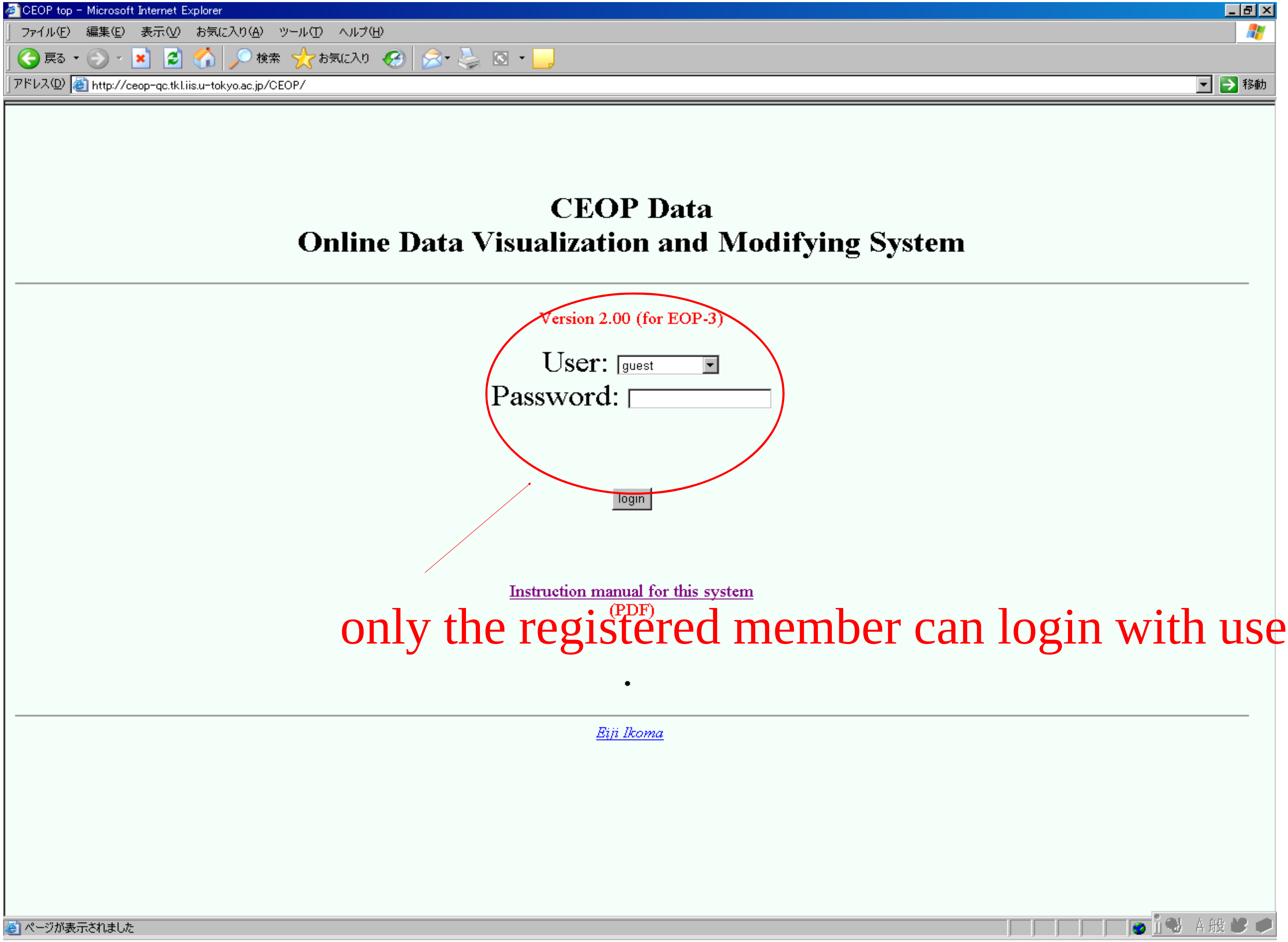
QC Web Interface

Use Own research purpose

Unified Format Dataset

DIAS Core System

The Quality Control System


CEOP 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/CEOP/
移動
login
ページが表示されました

CEOP Data
Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

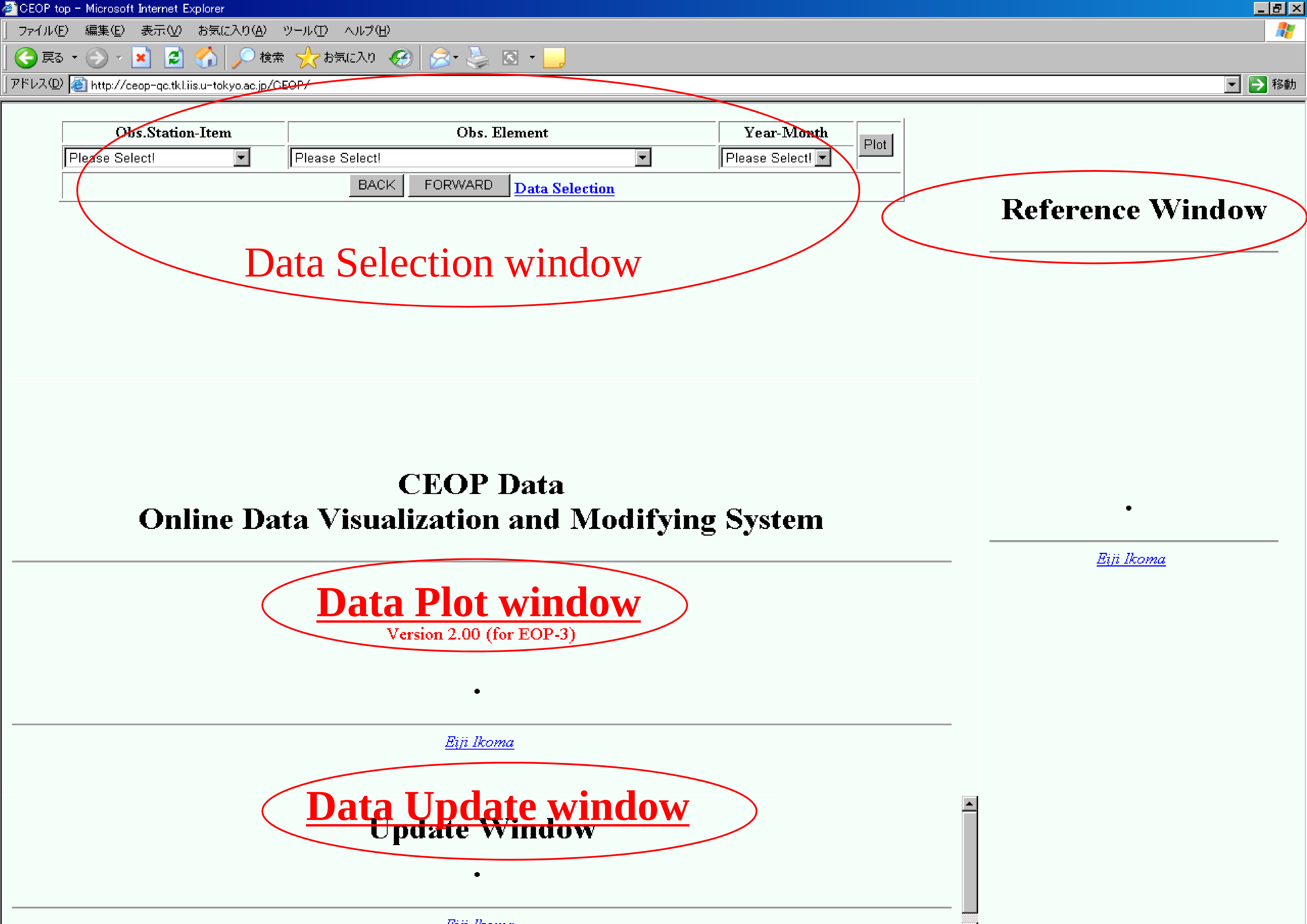
User: guest

Password:

Instruction manual for this system (PDF)

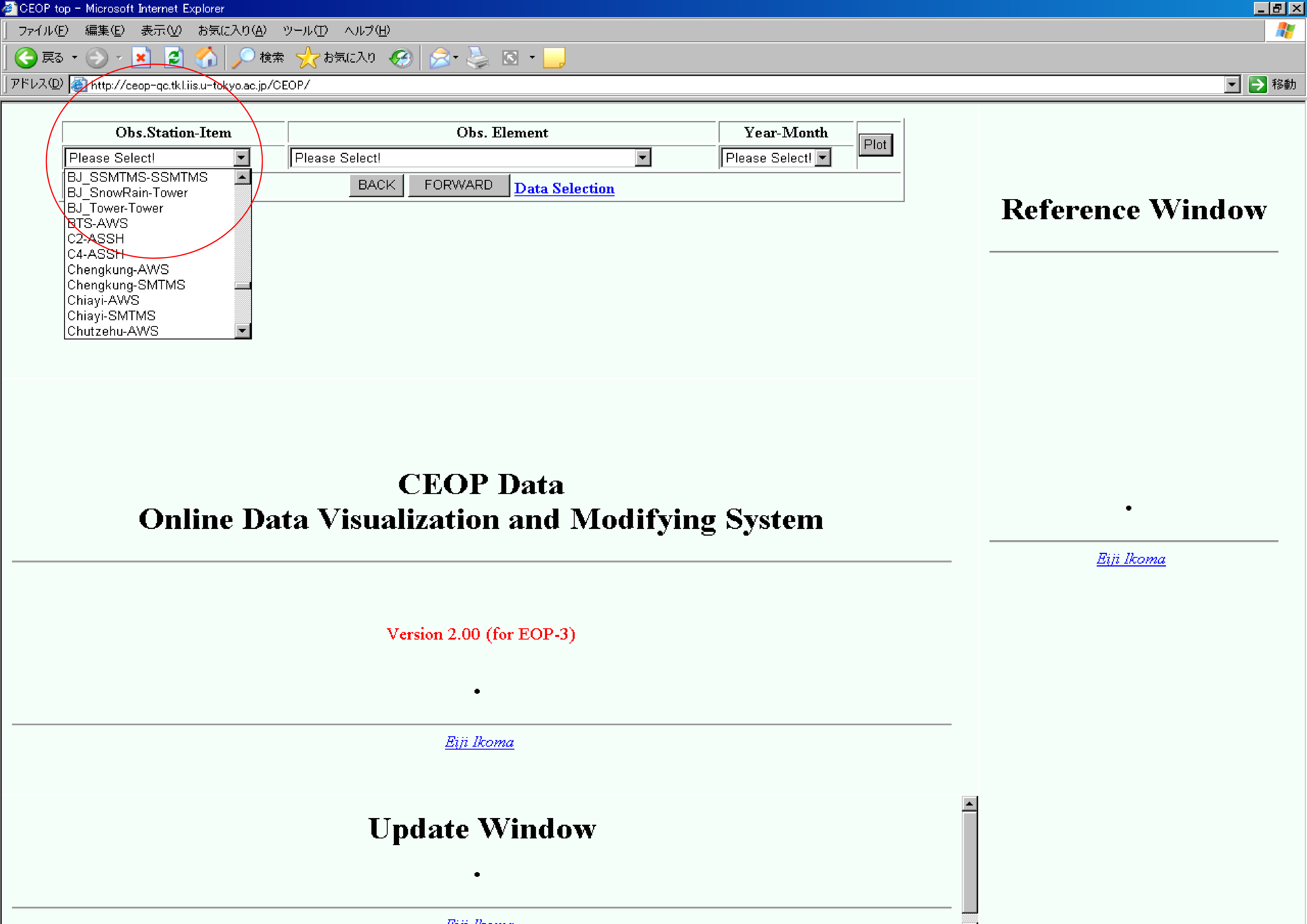
only the registered member can login with user ID and

Eiji Ikoma


CEOP 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/CEOP/
移動
Obs.Station-Item
Obs. Element
Year-Month
Please Select!
Please Select!
Please Select!
Plot
BACK
FORWARD
Data Selection
Data Selection window
Reference Window
Eiji Ikoma
Data Plot window
Version 2.00 (for EOP-3)
Eiji Ikoma
Data Update window
Update Window

CEOP Data

Online Data Visualization and Modifying System


CEOP 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)
移動

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

Obs.Station-Item	Obs. Element	Year-Month	
Please Select!	Please Select!	Please Select!	Plot

- BJ_SSMTMS-SSMTMS
- BJ_SnowRain-Tower
- BJ_Tower-Tower
- BTS-AWS
- C2-ASSH
- C4-ASSH
- Chengkung-AWS
- Chengkung-SMTMS
- Chiayi-AWS
- Chiayi-SMTMS
- Chutzehu-AWS

BACK
FORWARD
Data Selection

CEOP Data
Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

•

Eiji Ikoma

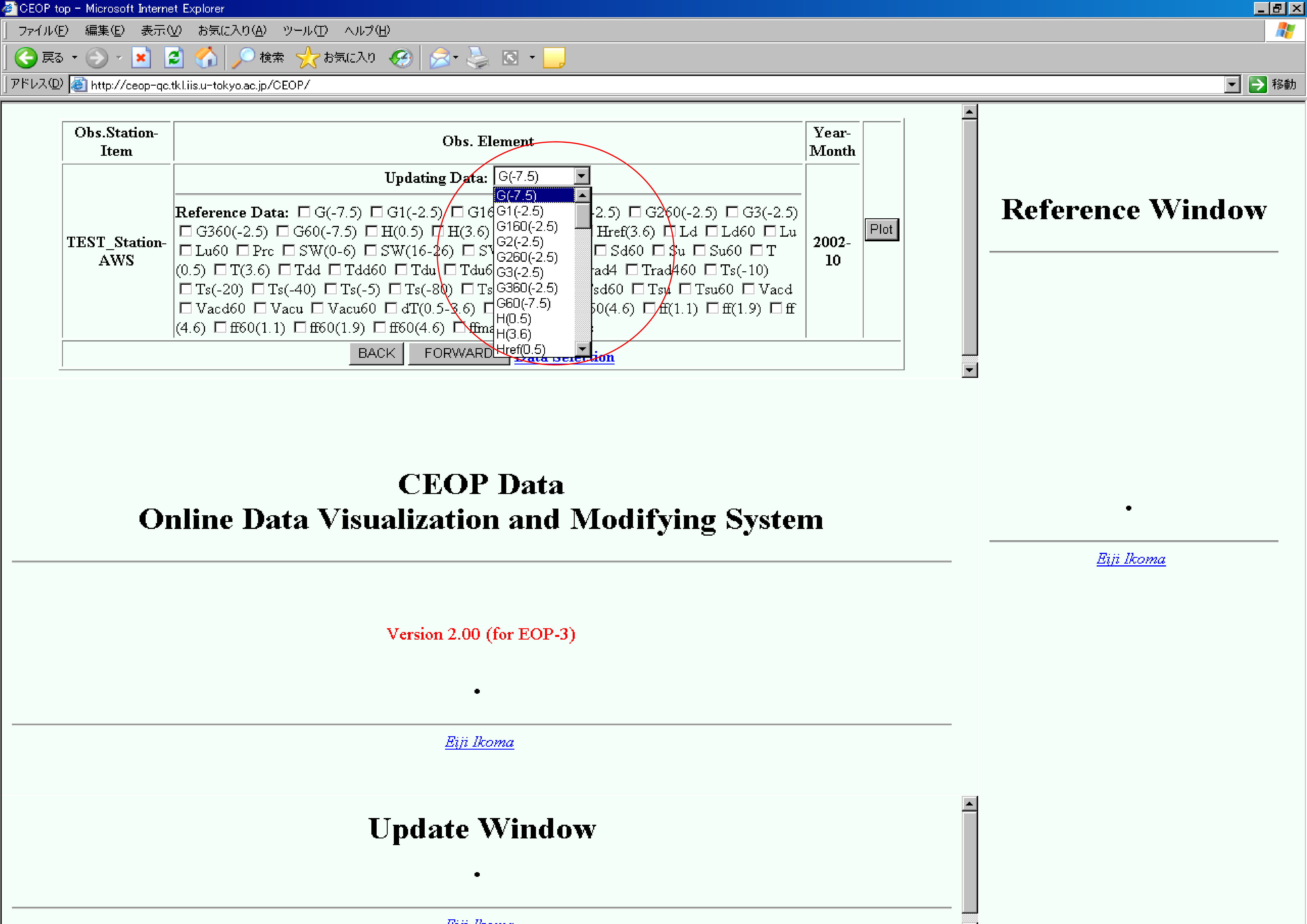
Update Window

•

Reference Window

•

Eiji Ikoma


CEOP 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/CEOP/
移動
G(-7.5)
G1(-2.5)
G160(-2.5)
G2(-2.5)
G260(-2.5)
G3(-2.5)
G360(-2.5)
G60(-7.5)
H(0.5)
H(3.6)
Href(0.5)
BACK
FORWARD
Plot

Obs.Station-Item	Obs. Element	Year-Month	
TEST_Station-AWS	**Updating Data:** G(-7.5) **Reference Data:** ☐ G(-7.5) ☐ G1(-2.5) ☐ G16 -2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☐ Prc ☐ SW(0-6) ☐ SW(16-26) ☐ SV ☐ Sd60 ☐ Su ☐ Su60 ☐ T (0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu6 rad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts sd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ 50(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff (4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffma	2002-10	Plot

Data Selection

Reference Window

•

Eiji Ikoma

CEOP Data
Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

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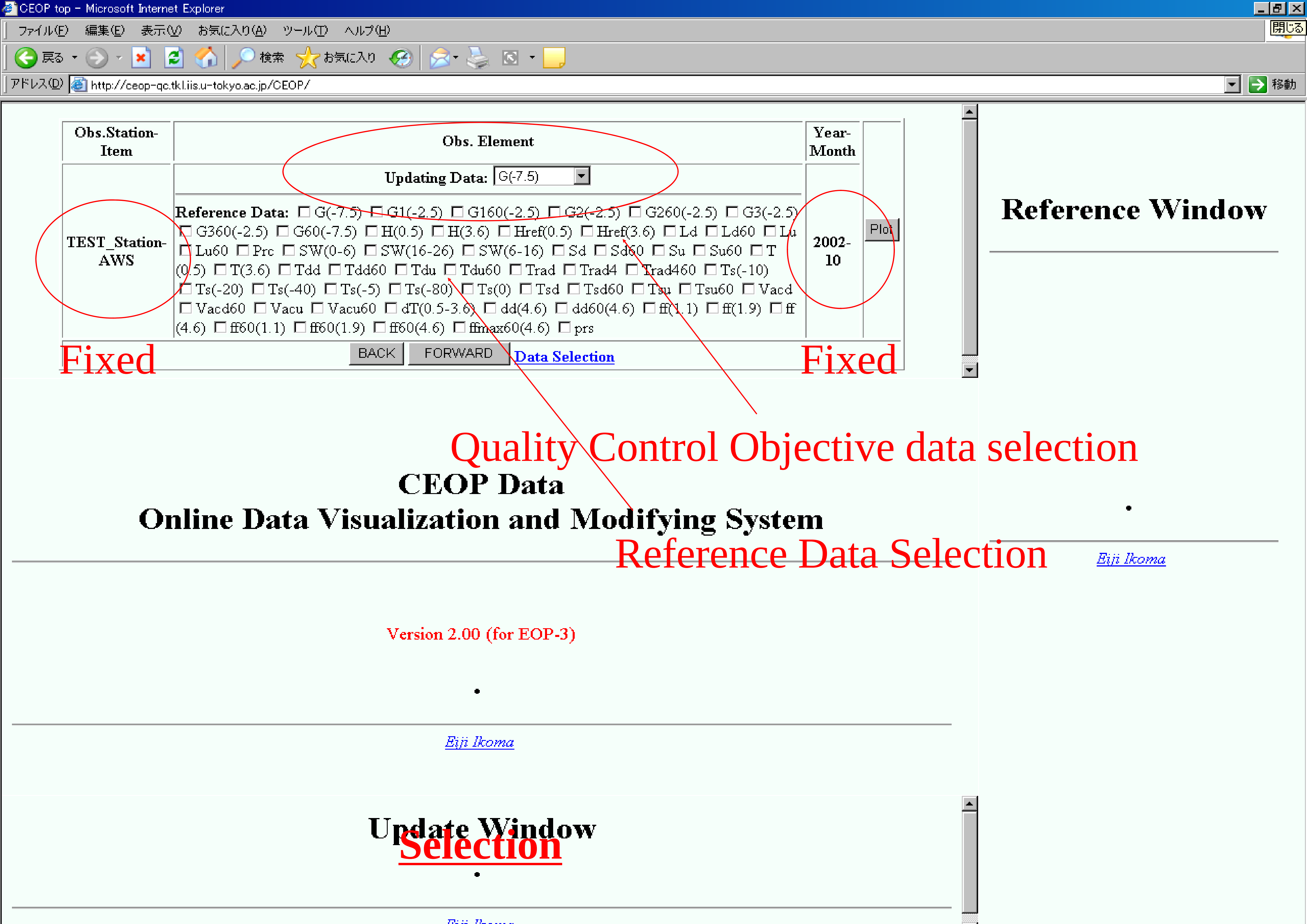
Eiji Ikoma

Update Window

•


CEOP 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)
閉じる
戻る
検索
お気に入り
アドレス(D)
移動

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

Obs.Station-Item	Obs. Element	Year-Month	
TEST_Station-AWS	Updating Data: G(-7.5) Reference Data: ☐ G(-7.5) ☐ G1(-2.5) ☐ G160(-2.5) ☐ G2(-2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) ☐ Href(0.5) ☐ Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☐ Prc ☐ SW(0-6) ☐ SW(16-26) ☐ SW(6-16) ☐ Sd ☐ Sd60 ☐ Su ☐ Su60 ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu60 ☐ Trad ☐ Trad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts(0) ☐ Tsd ☐ Tsd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ dd(4.6) ☐ dd60(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffmax60(4.6) ☐ prs	2002-10	Plot

BACK
FORWARD

Data Selection

Fixed

Fixed

Quality Control Objective data selection

Reference Data Selection

Selection

CEOP Data

Online Data Visualization and Modifying System

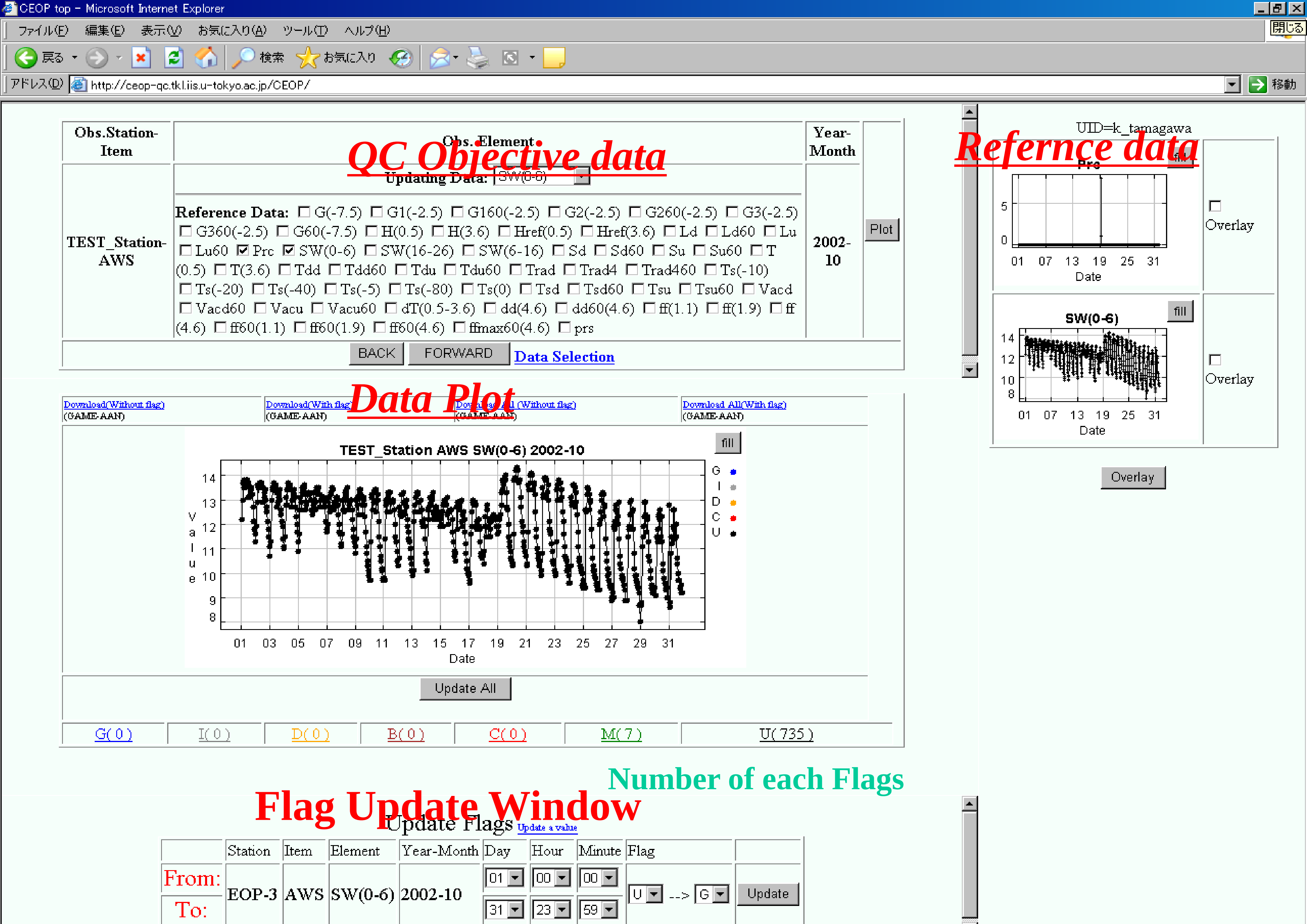
Version 2.00 (for EOP-3)

Eiji Ikoma

Reference Window

Eiji Ikoma

Update Window


CEOP 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)
移動
閉じる

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

QC Objective data

Obs.Station-Item	Obs.Element	Year-Month	
TEST_Station-AWS	Updating Data: SW(0-6) Reference Data: ☐ G(-7.5) ☐ G1(-2.5) ☐ G160(-2.5) ☐ G2(-2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) ☐ Href(0.5) ☐ Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☑ Prc ☑ SW(0-6) ☐ SW(16-26) ☐ SW(6-16) ☐ Sd ☐ Sd60 ☐ Su ☐ Su60 ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu60 ☐ Trad ☐ Trad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts(0) ☐ Tsd ☐ Tsd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ dd(4.6) ☐ dd60(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffmax60(4.6) ☐ prs	2002-10	Plot

BACK FORWARD Data Selection

Refernce data

UID=k_tamagawa

Prc
fill
5
0
01 07 13 19 25 31
Date
☐ Overlay
SW(0-6)
fill
14
12
10
8
01 07 13 19 25 31
Date
☐ Overlay
Overlay

Data Plot

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

TEST_Station AWS SW(0-6) 2002-10
fill
Value
14
13
12
11
10
9
8
01 03 05 07 09 11 13 15 17 19 21 23 25 27 29 31
Date
G ●
I ●
D ●
C ●
U ●
Update All

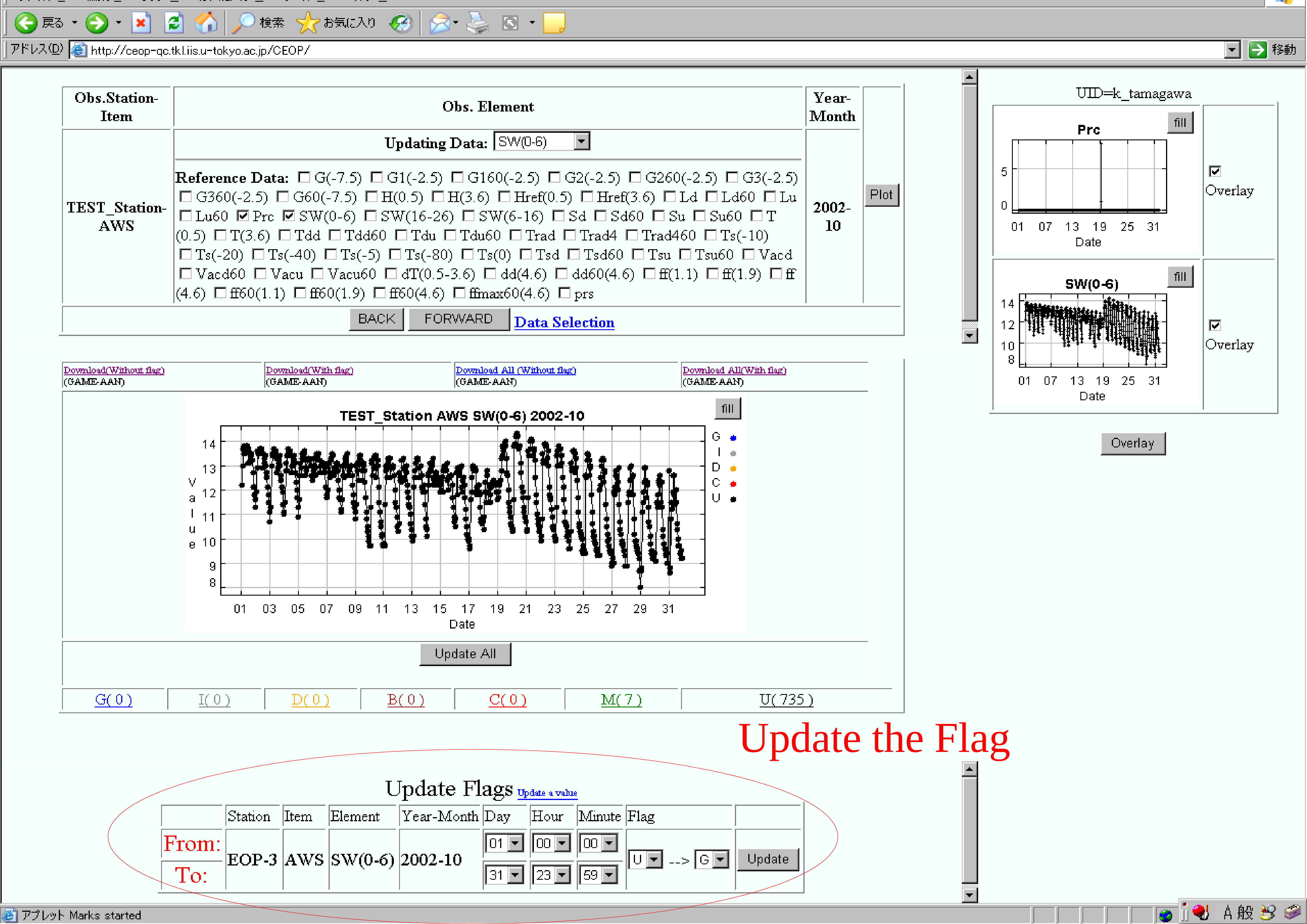
G(0) I(0) D(0) B(0) C(0) M(7) U(735)

Number of each Flags

Flag Update Window

Update Flags Update a value

	Station	Item	Element	Year-Month	Day	Hour	Minute	Flag	
From:	EOP-3	AWS	SW(0-6)	2002-10	01	00	00	U --> G	Update
To:					31	23	59		


戻る
検索
お気に入り
アドレス(D)
移動
BACK
FORWARD
Plot
fill
Overlay
Update All
TEST_Station AWS SW(0-6) 2002-10
Value
Date
01 03 05 07 09 11 13 15 17 19 21 23 25 27 29 31
8 9 10 11 12 13 14
G
I
D
C
U
Prc
SW(0-6)
01 07 13 19 25 31
アプレット Marks started

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

UID=k_tamagawa

Obs.Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6) Reference Data: ☐ G(-7.5) ☐ G1(-2.5) ☐ G160(-2.5) ☐ G2(-2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) ☐ Href(0.5) ☐ Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☑ Prc ☑ SW(0-6) ☐ SW(16-26) ☐ SW(6-16) ☐ Sd ☐ Sd60 ☐ Su ☐ Su60 ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu60 ☐ Trad ☐ Trad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts(0) ☐ Tsd ☐ Tsd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ dd(4.6) ☐ dd60(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffmax60(4.6) ☐ prs	2002-10

Data Selection

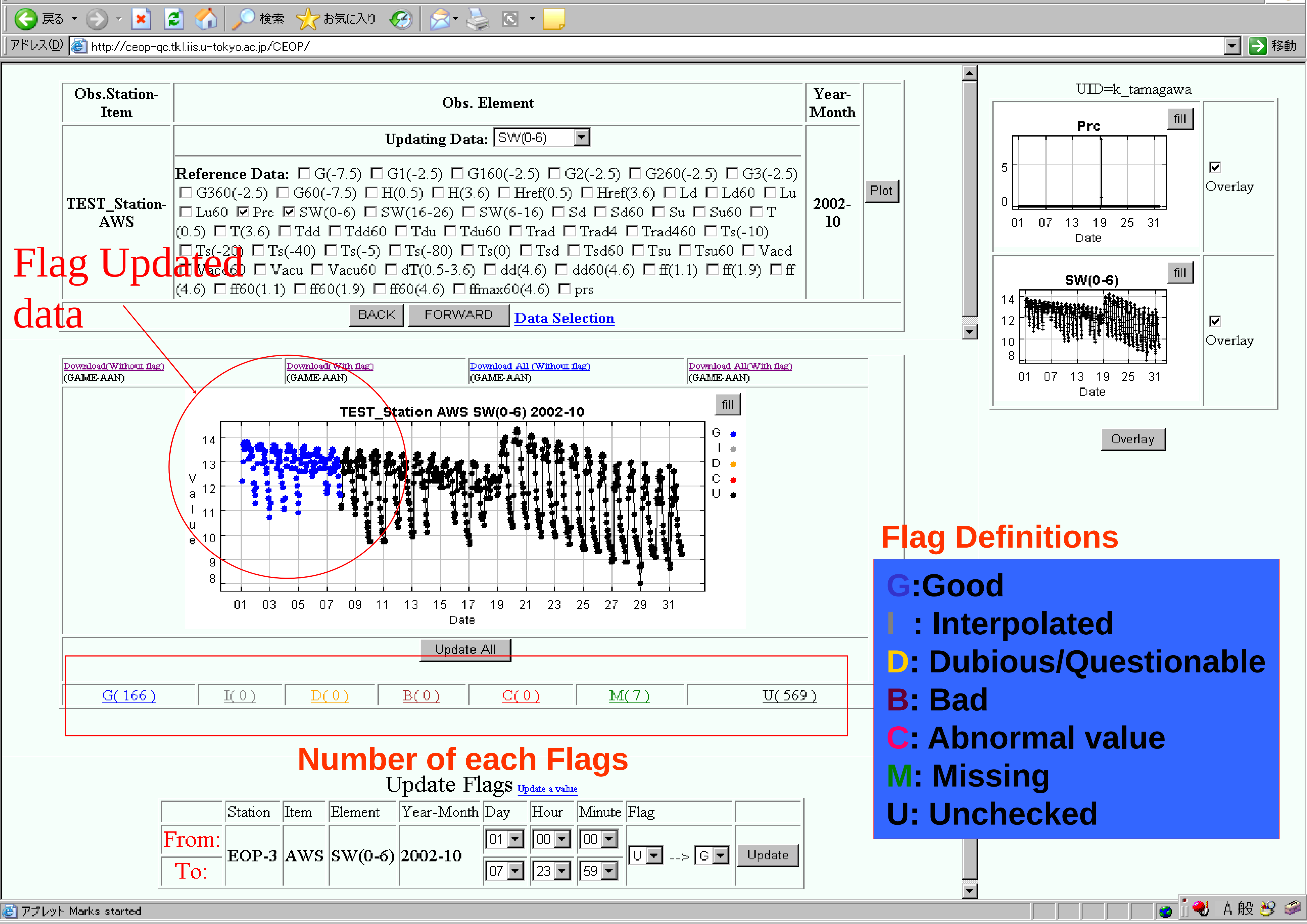
Download(Without flag) (GAME-AAN)	Download(With flag) (GAME-AAN)	Download All (Without flag) (GAME-AAN)	Download All(With flag) (GAME-AAN)

G(0)	I(0)	D(0)	B(0)	C(0)	M(7)	U(735)

Update the Flag

Update Flags Update a value

	Station	Item	Element	Year-Month	Day	Hour	Minute	Flag	
From:	EOP-3	AWS	SW(0-6)	2002-10	01	00	00	U --> G	Update
To:					31	23	59		


戻る
検索
お気に入り
アドレス(D)
移動

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

Obs.Station-Item	Obs. Element	Year-Month	
TEST_Station-AWS	Updating Data: SW(0-6) Reference Data: ☐ G(-7.5) ☐ G1(-2.5) ☐ G160(-2.5) ☐ G2(-2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) ☐ Href(0.5) ☐ Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☑ Prc ☑ SW(0-6) ☐ SW(16-26) ☐ SW(6-16) ☐ Sd ☐ Sd60 ☐ Su ☐ Su60 ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu60 ☐ Trad ☐ Trad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts(0) ☐ Tsd ☐ Tsd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ dd(4.6) ☐ dd60(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffmax60(4.6) ☐ prs	2002-10	Plot

BACK FORWARD Data Selection

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

TEST_Station AWS SW(0-6) 2002-10
fill
Value
14
13
12
11
10
9
8
01
03
05
07
09
11
13
15
17
19
21
23
25
27
29
31
Date
G
I
D
C
U
Update All

G(166)	I(0)	D(0)	B(0)	C(0)	M(7)	U(569)

Update Flags Update a value

	Station	Item	Element	Year-Month	Day	Hour	Minute	Flag	
From:	EOP-3	AWS	SW(0-6)	2002-10	01	00	00	U --> G	Update
To:					07	23	59		

UID=k_tamagawa

Prc
fill
5
0
01
07
13
19
25
31
Date
☑ Overlay
SW(0-6)
fill
14
12
10
8
01
07
13
19
25
31
Date
☑ Overlay
Overlay

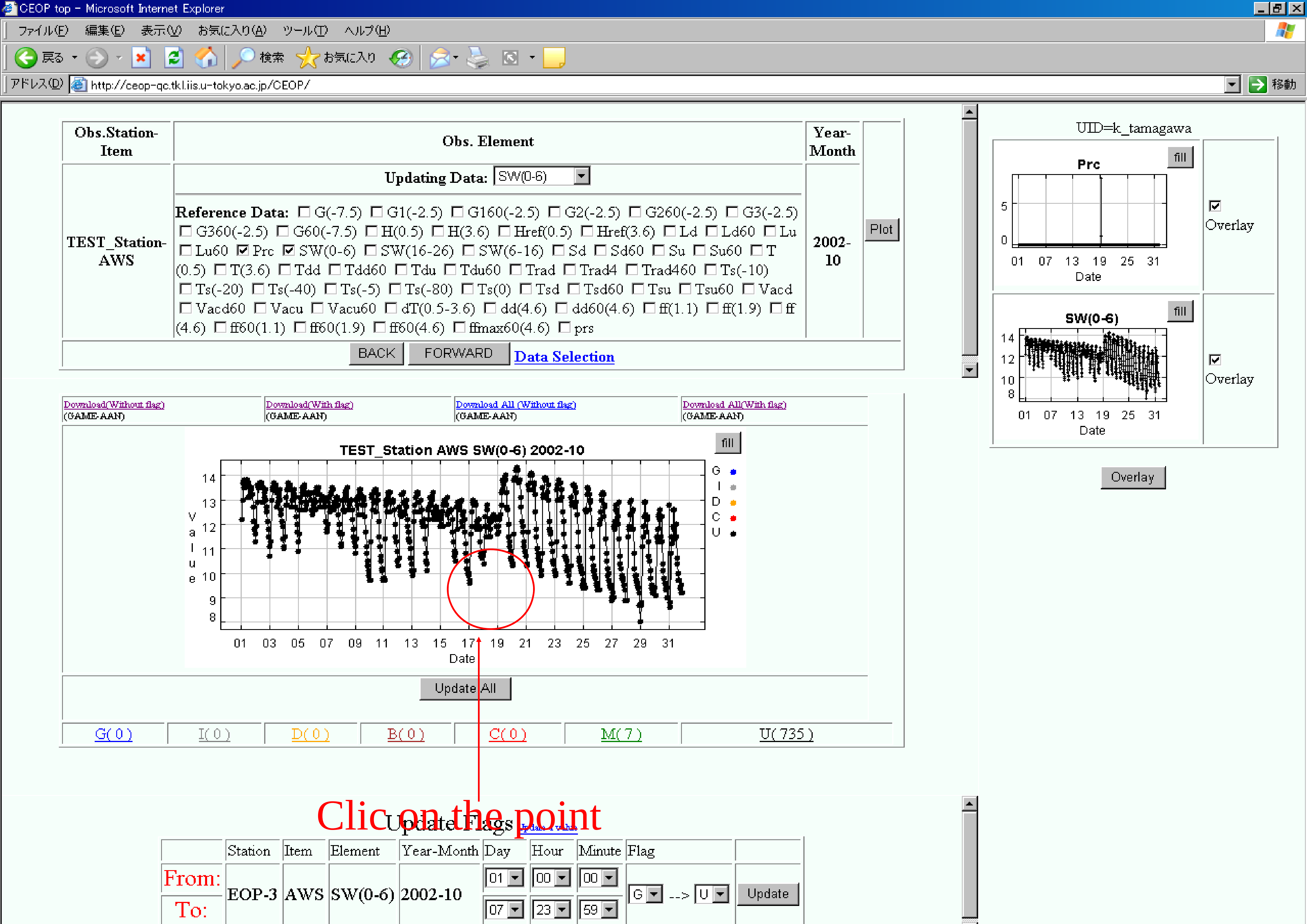
アプレット Marks started

Flag Updated data

Number of each Flags

Flag Definitions

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


CEOP 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)
移動

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

Obs.Station-Item	Obs. Element	Year-Month	
TEST_Station-AWS	Updating Data: SW(0-6) Reference Data: ☐ G(-7.5) ☐ G1(-2.5) ☐ G160(-2.5) ☐ G2(-2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) ☐ Href(0.5) ☐ Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☑ Prc ☑ SW(0-6) ☐ SW(16-26) ☐ SW(6-16) ☐ Sd ☐ Sd60 ☐ Su ☐ Su60 ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu60 ☐ Trad ☐ Trad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts(0) ☐ Tsd ☐ Tsd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ dd(4.6) ☐ dd60(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffmax60(4.6) ☐ prs	2002-10	Plot

BACK FORWARD Data Selection

UID=k_tamagawa

Prc
fill
5
0
01 07 13 19 25 31
Date
☑ Overlay
SW(0-6)
fill
14
12
10
8
01 07 13 19 25 31
Date
☑ Overlay
Overlay

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

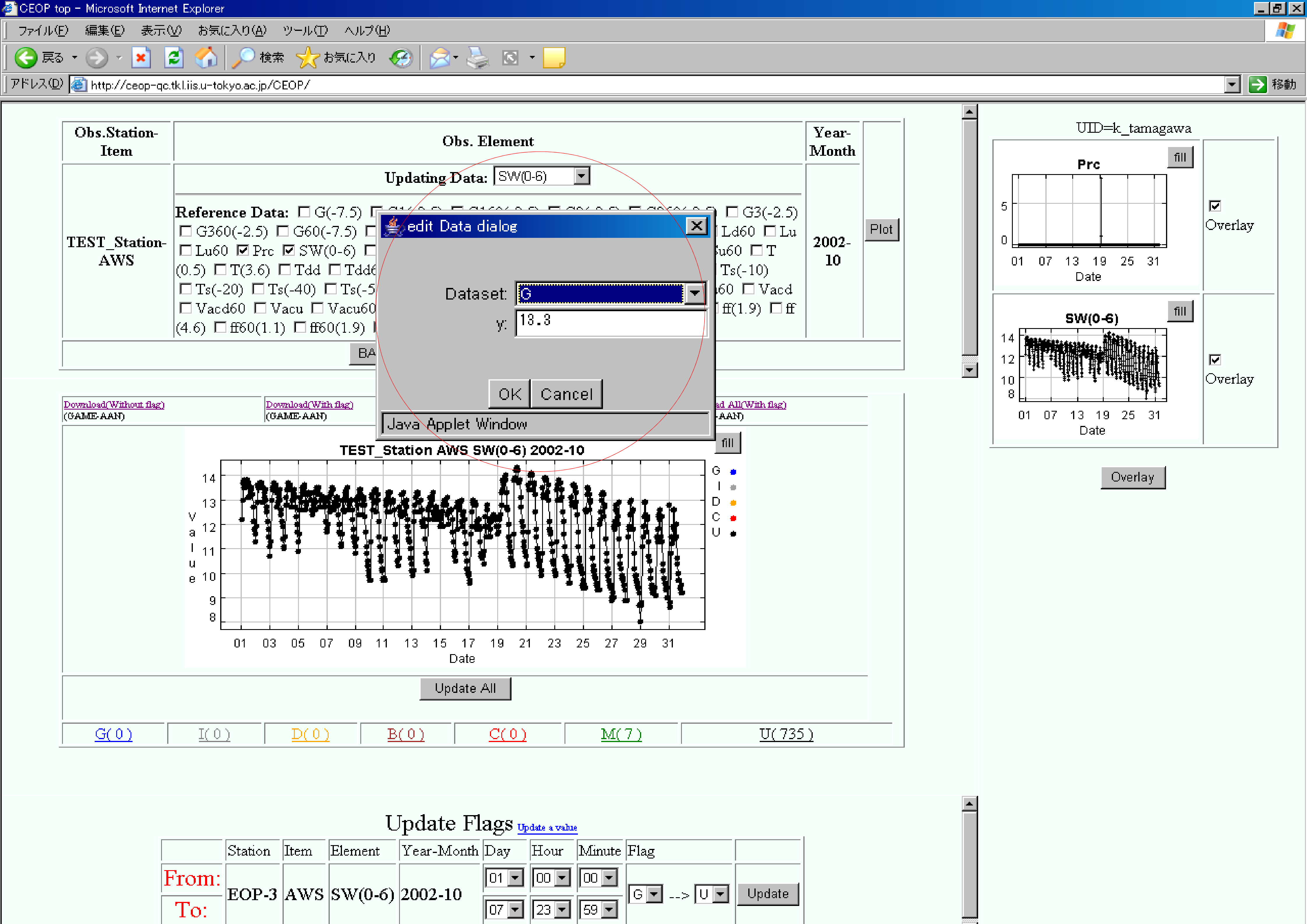
TEST_Station AWS SW(0-6) 2002-10
fill
14
13
12
11
10
9
8
Value
01 03 05 07 09 11 13 15 17 19 21 23 25 27 29 31
Date
G
I
D
C
U
Update All

G(0) I(0) D(0) B(0) C(0) M(7) U(735)

Clic on the point

Update Flags Update value

	Station	Item	Element	Year-Month	Day	Hour	Minute	Flag	
From:	EOP-3	AWS	SW(0-6)	2002-10	01	00	00	G --> U	Update
To:					07	23	59		


CEOP 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)
移動
Obs.Station-Item
Obs. Element
Year-Month
TEST_Station-AWS
Reference Data:
☐ G(-7.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ Ld60 ☐ Lu ☐ Lu60 ☑ Prc ☑ SW(0-6) ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9)
2002-10
Plot
Download(Without flag)
(GAME-AAN)
Download(With flag)
(GAME-AAN)
Download All(With flag)
(GAME-AAN)
TEST_Station AWS SW(0-6) 2002-10
Value
Date
G I D C U
fill
Update All
G(0)
I(0)
D(0)
B(0)
C(0)
M(7)
U(735)
UID=k_tamagawa
Prc
SW(0-6)
☑ Overlay
☑ Overlay
Overlay
edit Data dialog
OK
Cancel
Java Applet Window
Update Flags
Update a value
Update

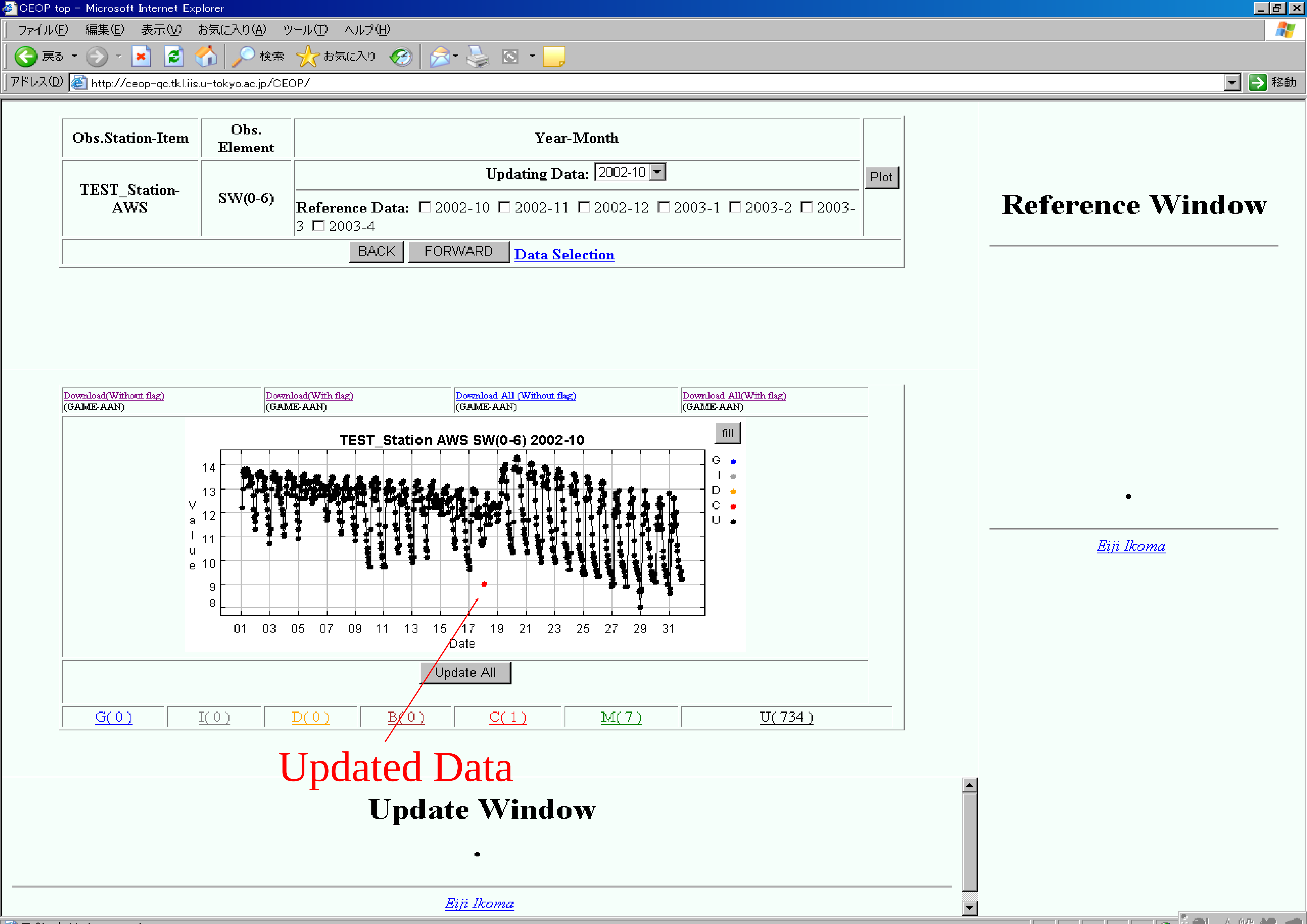
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

Updating Data: SW(0-6)

Dataset: G

y: 13.3

	Station	Item	Element	Year-Month	Day	Hour	Minute	Flag
From:	EOP-3	AWS	SW(0-6)	2002-10	01	00	00	G --> U
To:					07	23	59	


CEOP 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)
移動
Plot
BACK
FORWARD
fill
Update All
TEST_Station AWS SW(0-6) 2002-10
14
13
12
11
10
9
8
Value
01
03
05
07
09
11
13
15
17
19
21
23
25
27
29
31
Date
G
I
D
C
U

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/CEOP/

Obs.Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	SW(0-6)	Updating Data: 2002-10
		Reference Data: ☐ 2002-10 ☐ 2002-11 ☐ 2002-12 ☐ 2003-1 ☐ 2003-2 ☐ 2003-3 ☐ 2003-4

Data Selection

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

G(0)	I(0)	D(0)	B(0)	C(1)	M(7)	U(734)

Updated Data

Update Window

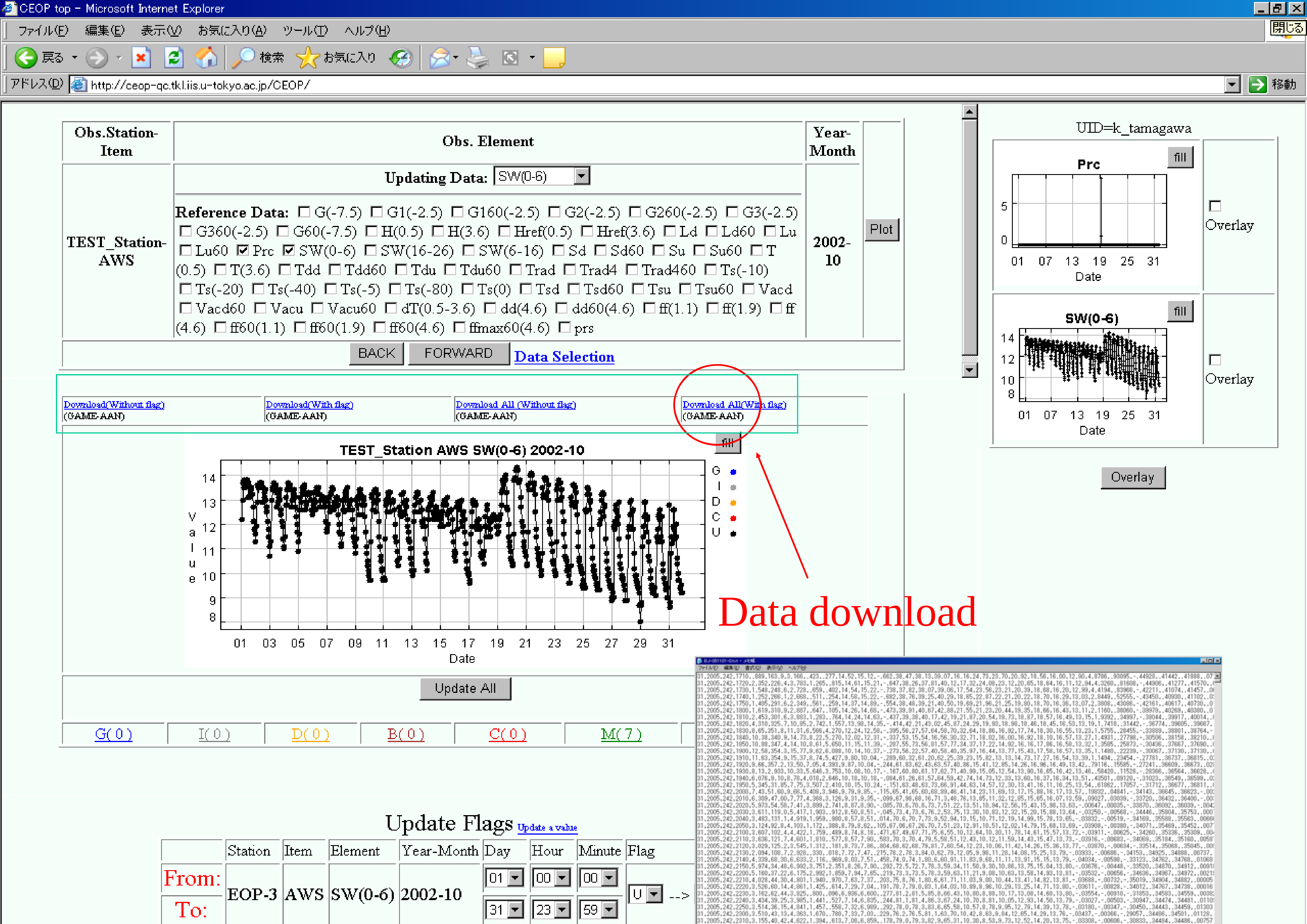
.

Eiji Ikoma

Reference Window

.

Eiji Ikoma


CEOP 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/CEOP/
移動
閉じる
Plot
BACK
FORWARD
Data Selection
Download(Without flag) (GAME-AAN)
Download(With flag) (GAME-AAN)
Download All (Without flag) (GAME-AAN)
Download All(With flag) (GAME-AAN)
fill
TEST_Station AWS SW(0-6) 2002-10
14
13
12
11
10
9
8
Value
01
03
05
07
09
11
13
15
17
19
21
23
25
27
29
31
Date
G ●
I ●
D ●
C ●
U ●
Update All
G(0)
I(0)
D(0)
B(0)
C(0)
M(7)
Update a value
UID=k_tamagawa
Prc
fill
5
0
01
07
13
19
25
31
Date
☐ Overlay
SW(0-6)
fill
14
12
10
8
01
07
13
19
25
31
Date
☐ Overlay
Overlay

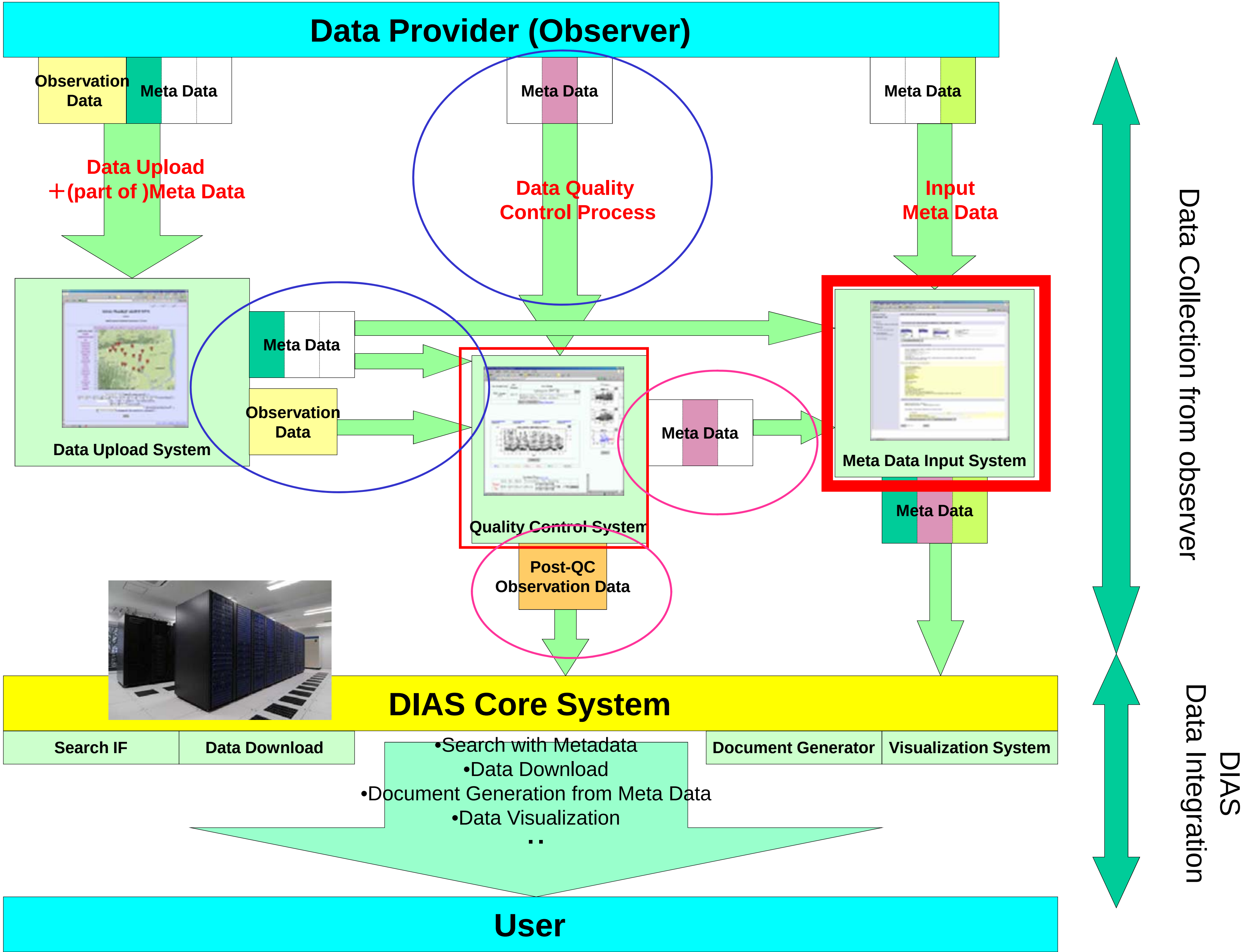
Obs.Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6) Reference Data: ☐ G(-7.5) ☐ G1(-2.5) ☐ G160(-2.5) ☐ G2(-2.5) ☐ G260(-2.5) ☐ G3(-2.5) ☐ G360(-2.5) ☐ G60(-7.5) ☐ H(0.5) ☐ H(3.6) ☐ Href(0.5) ☐ Href(3.6) ☐ Ld ☐ Ld60 ☐ Lu ☐ Lu60 ☑ Prc ☑ SW(0-6) ☐ SW(16-26) ☐ SW(6-16) ☐ Sd ☐ Sd60 ☐ Su ☐ Su60 ☐ T(0.5) ☐ T(3.6) ☐ Tdd ☐ Tdd60 ☐ Tdu ☐ Tdu60 ☐ Trad ☐ Trad4 ☐ Trad460 ☐ Ts(-10) ☐ Ts(-20) ☐ Ts(-40) ☐ Ts(-5) ☐ Ts(-80) ☐ Ts(0) ☐ Tsd ☐ Tsd60 ☐ Tsu ☐ Tsu60 ☐ Vacd ☐ Vacd60 ☐ Vacu ☐ Vacu60 ☐ dT(0.5-3.6) ☐ dd(4.6) ☐ dd60(4.6) ☐ ff(1.1) ☐ ff(1.9) ☐ ff(4.6) ☐ ff60(1.1) ☐ ff60(1.9) ☐ ff60(4.6) ☐ ffmax60(4.6) ☐ prs	2002-10

Data download

Update Flags

	Station	Item	Element	Year-Month	Day	Hour	Minute	Flag
From:	EOP-3	AWS	SW(0-6)	2002-10	01	00	00	U -->
To:					31	23	59	

AWCI Data Upload and DIAS Core System



Data Provider (Observer)

Observation Data

Meta Data

Meta Data

Meta Data

Data Upload
＋(part of)Meta Data

Data Quality
Control Process

Input
Meta Data

Data Upload System

Meta Data

Observation Data

Quality Control System

Meta Data

Meta Data Input System

Meta Data

Post-QC
Observation Data

DIAS Core System

Search IF

Data Download

Document Generator

Visualization System

- •Search with Metadata
- •Data Download
- •Document Generation from Meta Data
- •Data Visualization

・・

User

Data Collection from observer

DIAS
Data Integration

Observation Data
Metadata Registration System

Hiroko Kinutani

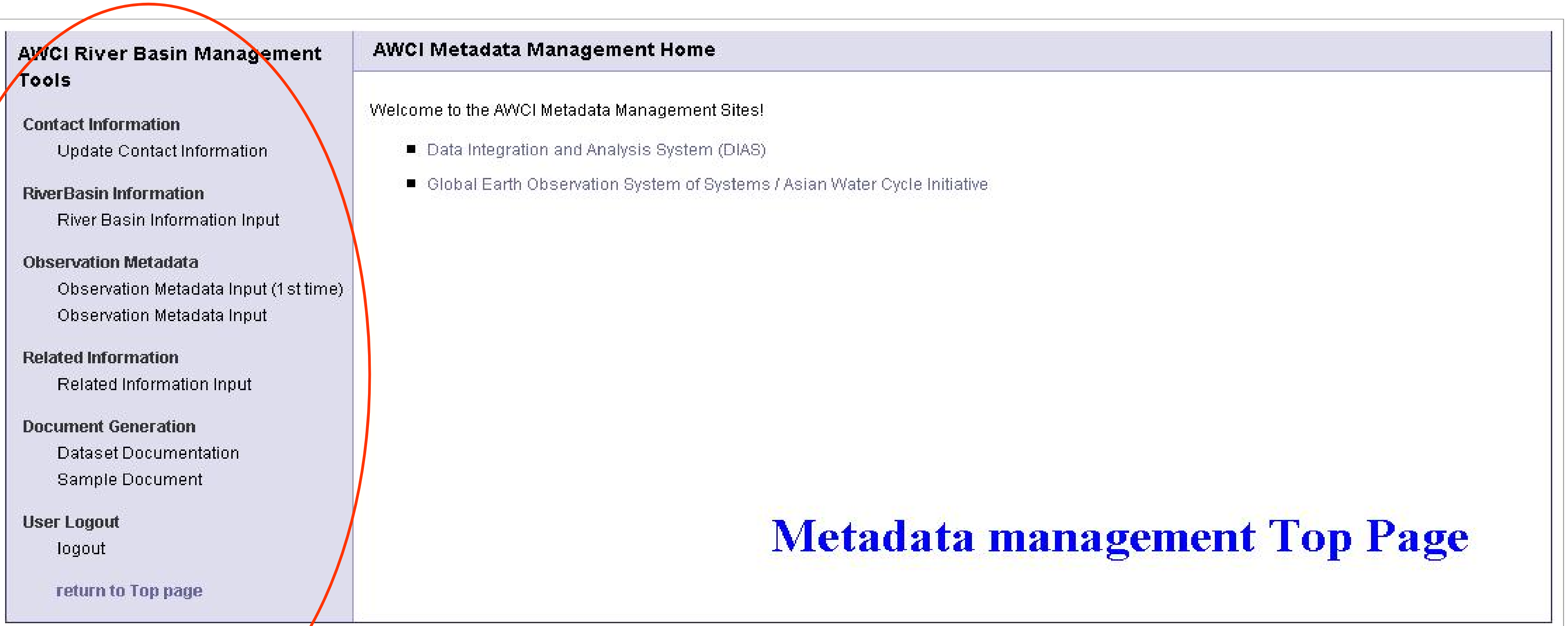
Eiji Ikoma, Katsunori Tamagawa

Tetsu Ohta, Masaru Kitsuregawa

Metadata Input System

- Observers can input metadata information related to observation data on Web Interface.
- This metadata is defined as an extension of ISO19115, ISO19139 metadata standards.
- The operation on this system is much easier than other similar system.

Top Page



AWCI River Basin Management Tools

Contact Information
  Update Contact Information

RiverBasin Information
  River Basin Information Input

Observation Metadata
  Observation Metadata Input (1st time)
  Observation Metadata Input

Related Information
  Related Information Input

Document Generation
  Dataset Documentation
  Sample Document

User Logout
  logout

return to Top page

AWCI Metadata Management Home

Welcome to the AWCI Metadata Management Sites!

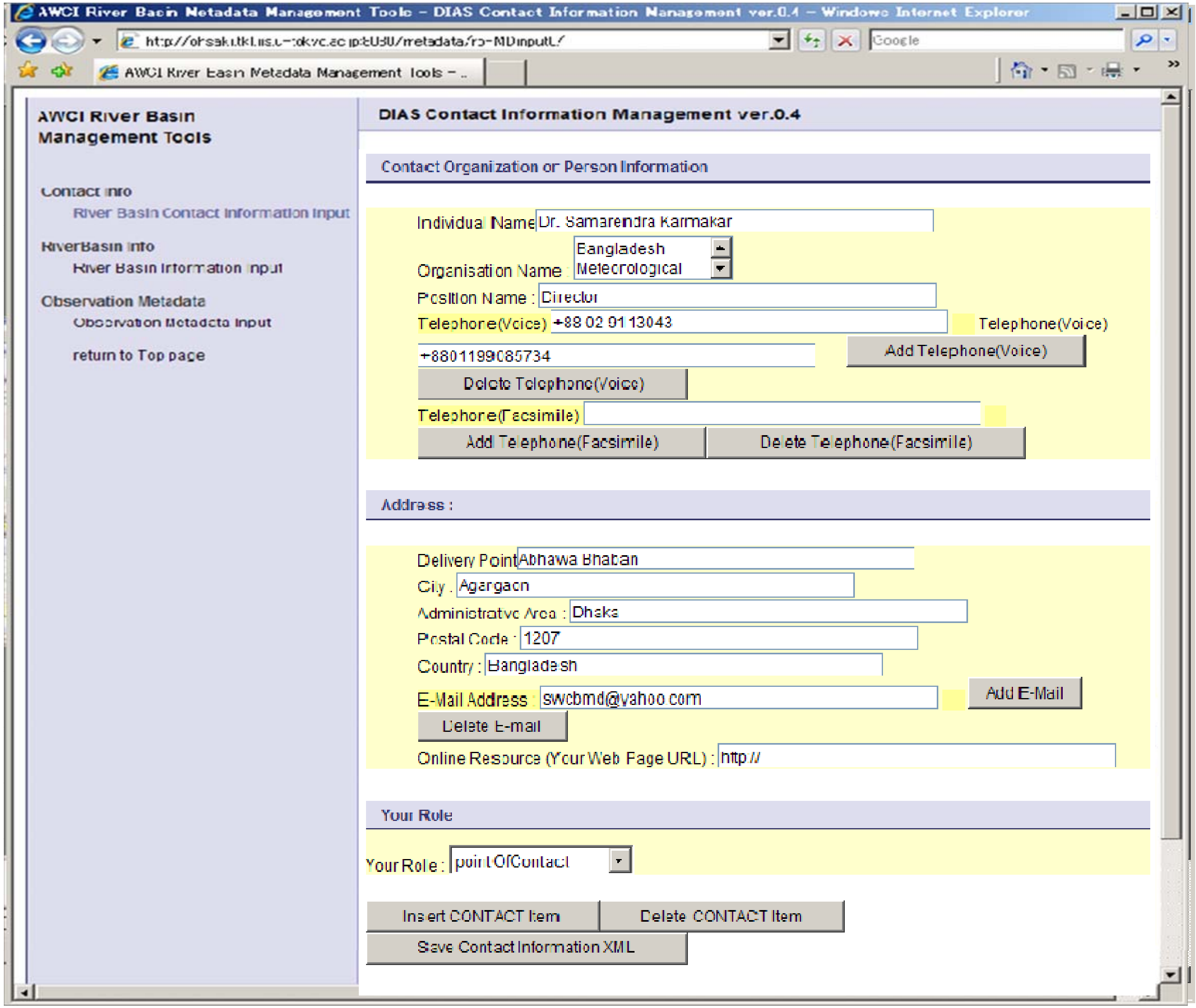
- Data Integration and Analysis System (DIAS)
- Global Earth Observation System of Systems / Asian Water Cycle Initiative

Metadata management Top Page

Input Menu

- Contact Info.
- River Basin Description
- River Basin Observation metadata

Contact Info. Input

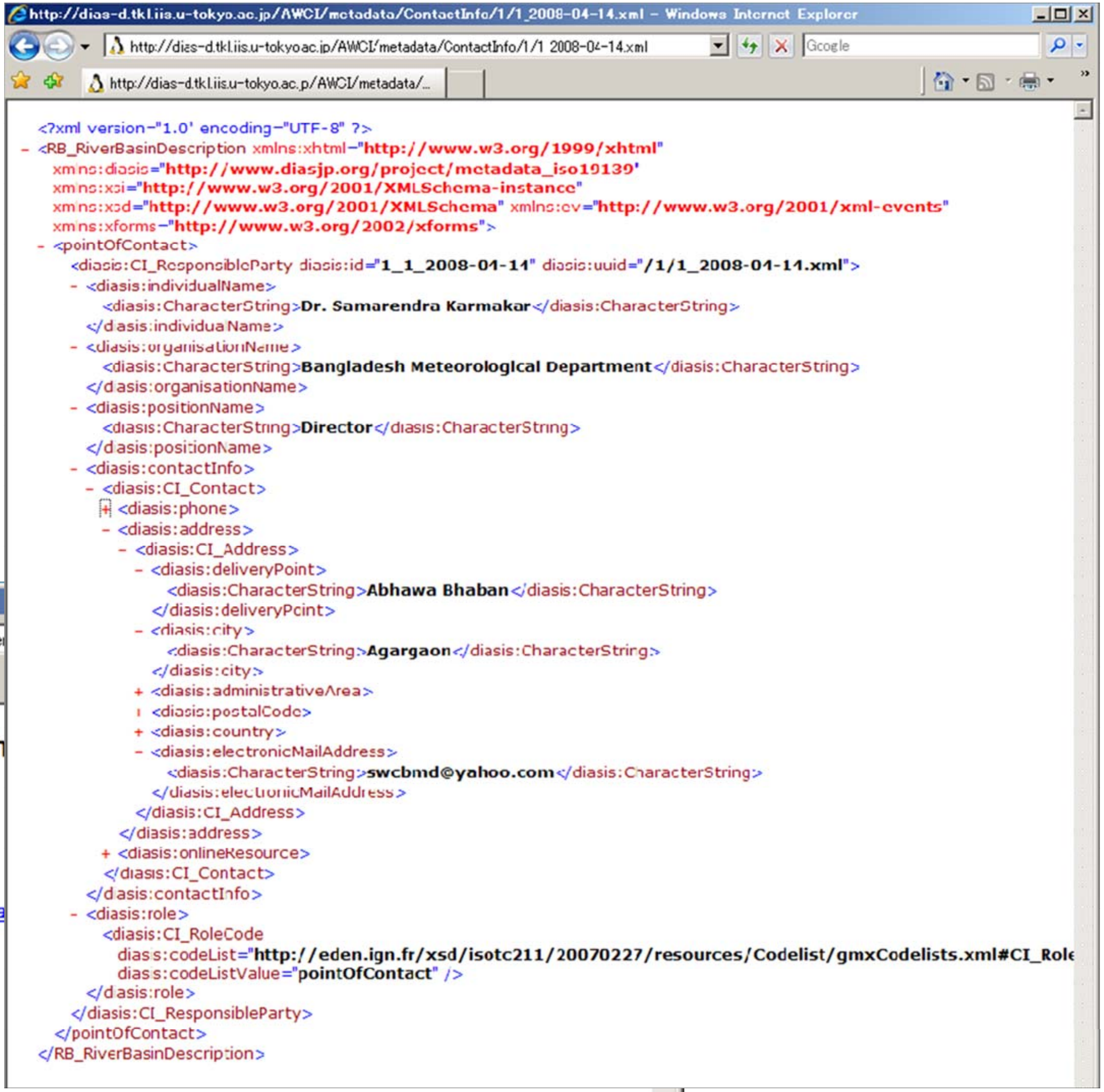

AWCI River Basin Metadata Management Tools – DIAS Contact Information Management ver.0.4 – Windows Internet Explorer
AWCI River Basin Metadata Management Tools – ..
Google
AWCI River Basin Management Tools
Contact Info
River Basin Contact Information Input
RiverBasin Info
River Basin Information Input
Observation Metadata
Observation Metadata Input
return to Top page
DIAS Contact Information Management ver.0.4
Contact Organization or Person Information
Add Telephone(Voice)
Delete Telephone(Voice)
Add Telephone(Facsimile)
Delete Telephone(Facsimile)
Address :
Add E-Mail
Delete E-mail
Your Role
Insert CONTACT Item
Delete CONTACT Item
Save Contact Information XML

Individual Name Dr. Samarendra Karmakar
Organisation Name : Bangladesh Meteorological
Position Name : Director
Telephone(Voice) +88 02 91 13043 Telephone(Voice)
+8801199085734
Telephone(Facsimile)
Delivery Point Abhawa Bhaban
City : Agargaon
Administrative Area : Dhaka
Postal Code : 1207
Country : Bangladesh
E-Mail Address : swcbmd@yahoo.com
Online Resource (Your Web Page URL) : http://
Your Role : pointOfContact

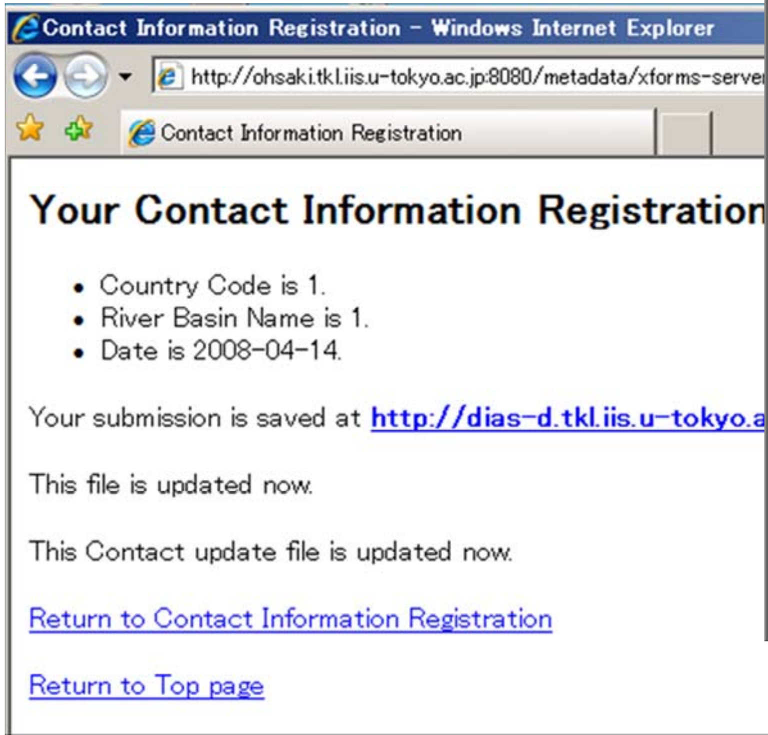
- Contact Info. is often required to input.
- Name, Address, etc.
- Once input, Use many times

Contact Info. submit

- Can view metadata as XML


http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/ContactInfo/1/1_2008-04-14.xml - Windows Internet Explorer
http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/ContactInfo/1/1_2008-04-14.xml
Google
http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/...

```
  <?xml version="1.0" encoding="UTF-8" ?>
- <RB_RiverBasinDescription xmlns:xhtml="http://www.w3.org/1999/xhtml"
    xmlns:diasis="http://www.diasjp.org/project/metadata_iso19139"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:ev="http://www.w3.org/2001/xml-events"
    xmlns:xforms="http://www.w3.org/2002/xforms">
  - <pointOfContact>
      <diasis:CI_ResponsibleParty diasis:id="1_1_2008-04-14" diasis:uuid="/1/1_2008-04-14.xml">
      - <diasis:individualName>
          <diasis:CharacterString>Dr. Samarendra Karmakar</diasis:CharacterString>
        </diasis:individualName>
      - <diasis:organisationName>
          <diasis:CharacterString>Bangladesh Meteorological Department</diasis:CharacterString>
        </diasis:organisationName>
      - <diasis:positionName>
          <diasis:CharacterString>Director</diasis:CharacterString>
        </diasis:positionName>
      - <diasis:contactInfo>
        - <diasis:CI_Contact>
          + <diasis:phone>
          - <diasis:address>
            - <diasis:CI_Address>
              - <diasis:deliveryPoint>
                  <diasis:CharacterString>Abhawa Bhaban</diasis:CharacterString>
                </diasis:deliveryPoint>
              - <diasis:city>
                  <diasis:CharacterString>Agargaon</diasis:CharacterString>
                </diasis:city>
              + <diasis:administrativeArea>
              + <diasis:postalCode>
              + <diasis:country>
              - <diasis:electronicMailAddress>
                  <diasis:CharacterString>swcbmd@yahoo.com</diasis:CharacterString>
                </diasis:electronicMailAddress>
              </diasis:CI_Address>
            </diasis:address>
          + <diasis:onlineResource>
          </diasis:CI_Contact>
        </diasis:contactInfo>
      - <diasis:role>
          <diasis:CI_RoleCode
            diasis:codeList="http://eden.ign.fr/xsd/isotc211/20070227/resources/Codelist/gmxCodelists.xml#CI_Role
            diasis:codeListValue="pointOfContact" />
        </diasis:role>
      </diasis:CI_ResponsibleParty>
    </pointOfContact>
  </RB_RiverBasinDescription>
```


Contact Information Registration - Windows Internet Explorer
http://ohsaki.tkl.iis.u-tokyo.ac.jp:8080/metadata/xforms-server
Contact Information Registration

Your Contact Information Registration

- Country Code is 1.
- River Basin Name is 1.
- Date is 2008-04-14.

Your submission is saved at http://dias-d.tkl.iis.u-tokyo.a

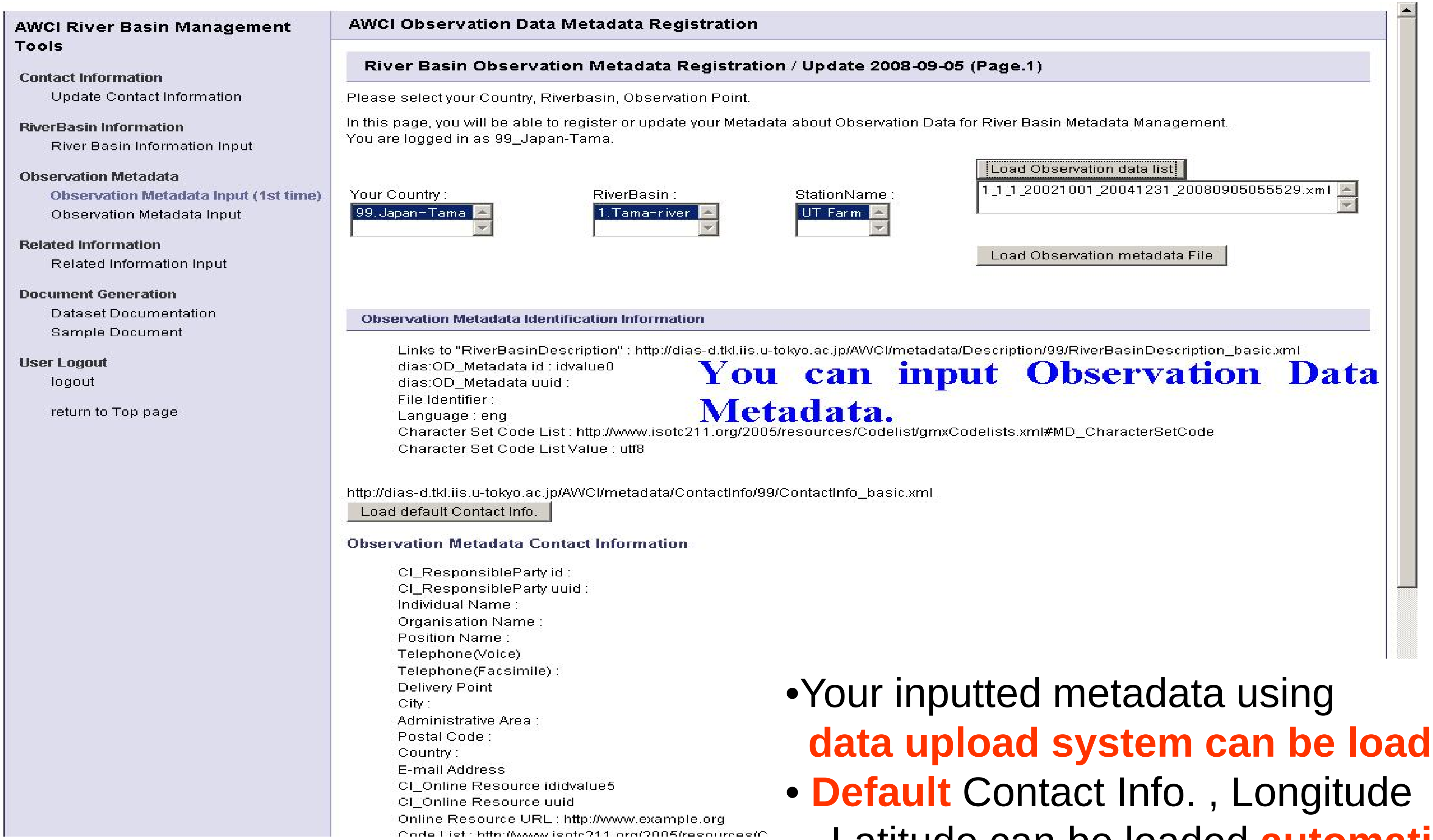
This file is updated now.

This Contact update file is updated now.

Return to Contact Information Registration

Return to Top page

Observation metadata input(automatically)



AWCI River Basin Management Tools
Contact Information
Update Contact Information
RiverBasin Information
River Basin Information Input
Observation Metadata
Observation Metadata Input (1st time)
Observation Metadata Input
Related Information
Related Information Input
Document Generation
Dataset Documentation
Sample Document
User Logout
logout
return to Top page

AWCI Observation Data Metadata Registration

River Basin Observation Metadata Registration / Update 2008-09-05 (Page.1)

Please select your Country, Riverbasin, Observation Point.

In this page, you will be able to register or update your Metadata about Observation Data for River Basin Metadata Management.
You are logged in as 99_Japan-Tama.

Your Country : 99.Japan-Tama

RiverBasin : 1.Tama-river

StationName : UT Farm

Load Observation data list
Load Observation metadata File

1_1_1_20021001_20041231_20080905055529.xml

Observation Metadata Identification Information

Links to "RiverBasinDescription" : http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/Description/99/RiverBasinDescription_basic.xml
dias:OD_Metadata id : idvalue0
dias:OD_Metadata uuid :
File Identifier :
Language : eng
Character Set Code List : http://www.isotc211.org/2005/resources/Codelist/gmxCodelists.xml#MD_CharacterSetCode
Character Set Code List Value : utf8

You can input Observation Data Metadata.

http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/ContactInfo/99/ContactInfo_basic.xml

Load default Contact Info.

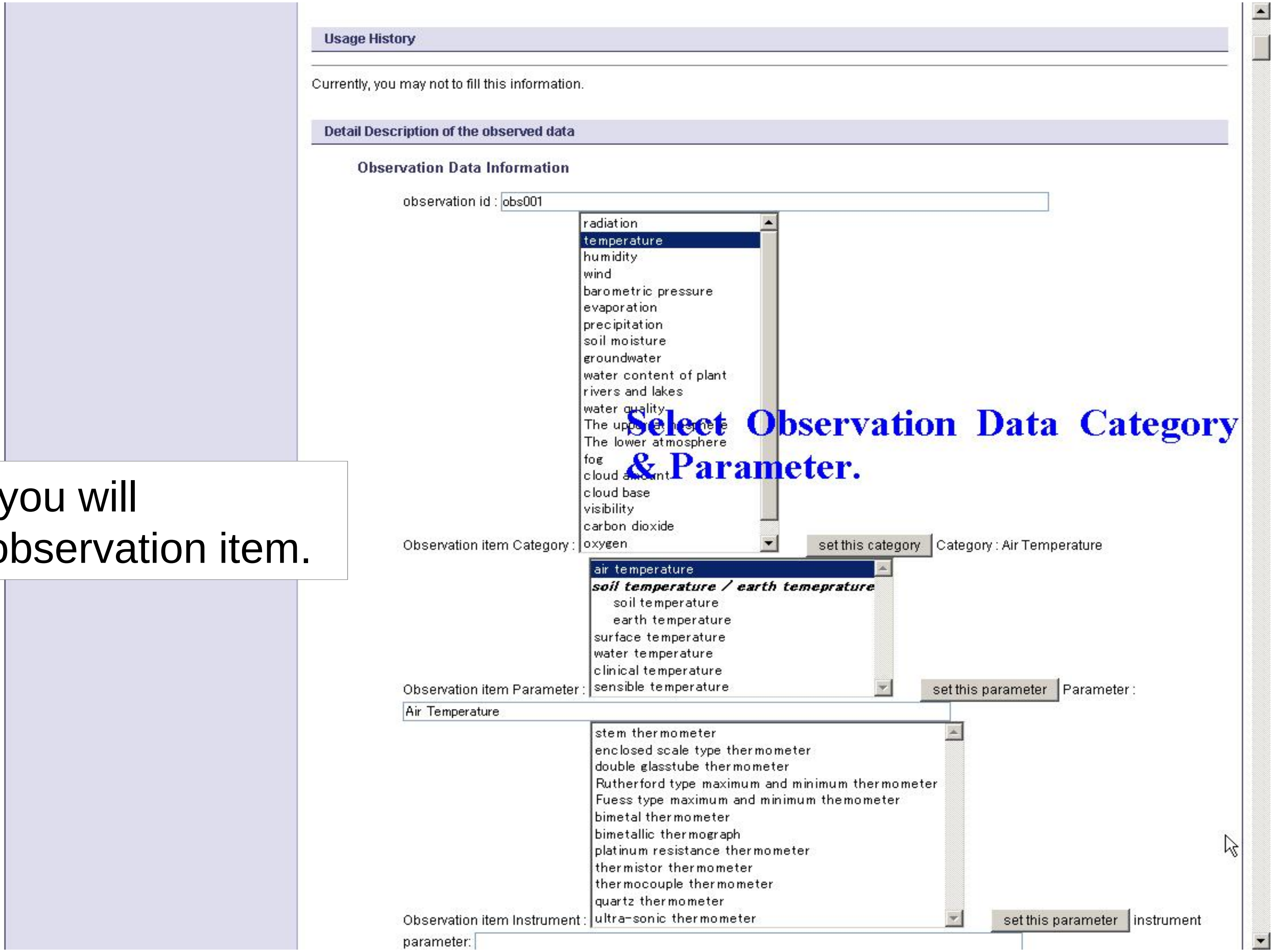
Observation Metadata Contact Information

CI_ResponsibleParty id :
CI_ResponsibleParty uuid :
Individual Name :
Organisation Name :
Position Name :
Telephone(Voice)
Telephone(Facsimile) :
Delivery Point
City :
Administrative Area :
Postal Code :
Country :
E-mail Address
CI_Online Resource ididvalue5
CI_Online Resource uuid
Online Resource URL : http://www.example.org
Code List : http://www.isotc211.org/2005/resources/C

- Your inputted metadata using **data upload system can be loaded** here
- **Default** Contact Info. , Longitude , Latitude can be loaded **automatically**.

Observation metadata input(manually)

In this area, you will
input about observation item.



Usage History

Currently, you may not to fill this information.

Detail Description of the observed data

Observation Data Information

observation id : obs001

radiation
temperature
humidity
wind
barometric pressure
evaporation
precipitation
soil moisture
groundwater
water content of plant
rivers and lakes
water quality
The upper atmosphere
The lower atmosphere
fog
cloud amount
cloud base
visibility
carbon dioxide
oxygen

Select Observation Data Category & Parameter.

Observation item Category : oxygen

Category : Air Temperature

air temperature
soil temperature / earth temeprature
soil temperature
earth temperature
surface temperature
water temperature
clinical temperature
sensible temperature

Observation item Parameter : sensible temperature

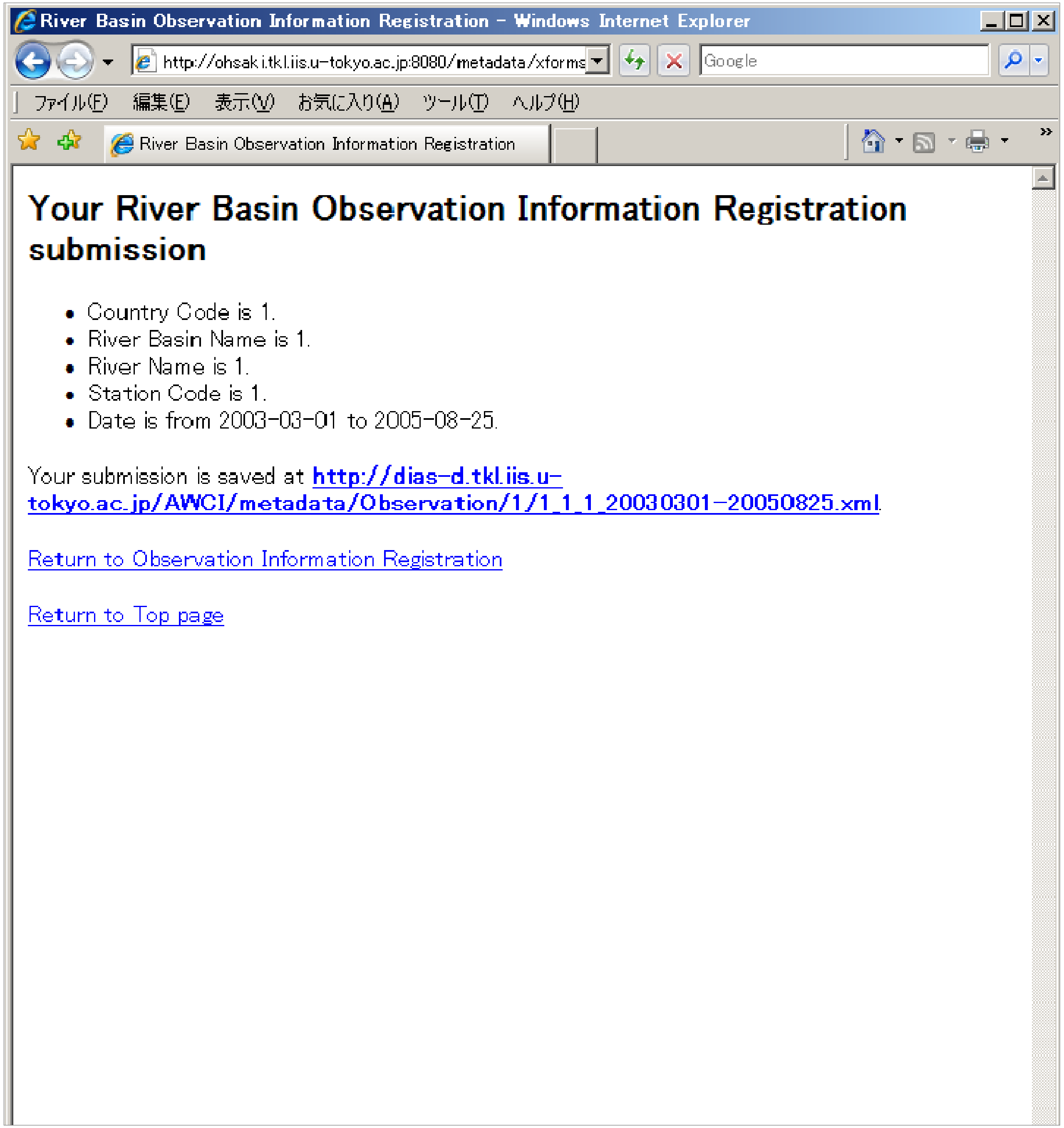
Parameter : Air Temperature

stem thermometer
enclosed scale type thermometer
double glasstube thermometer
Rutherford type maximum and minimum thermometer
Fuess type maximum and minimum themometer
bimetal thermometer
bimetallic thermograph
platinum resistance thermometer
thermistor thermometer
thermocouple thermometer
quartz thermometer
ultra-sonic thermometer

Observation item Instrument : ultra-sonic thermometer

instrument parameter:

Metadata Access


River Basin Observation Information Registration - Windows Internet Explorer
http://ohsaki.tkl.iis.u-tokyo.ac.jp:8080/metadata/xforms
Google
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)
River Basin Observation Information Registration

Your River Basin Observation Information Registration submission

- Country Code is 1.
- River Basin Name is 1.
- River Name is 1.
- Station Code is 1.
- Date is from 2003-03-01 to 2005-08-25.

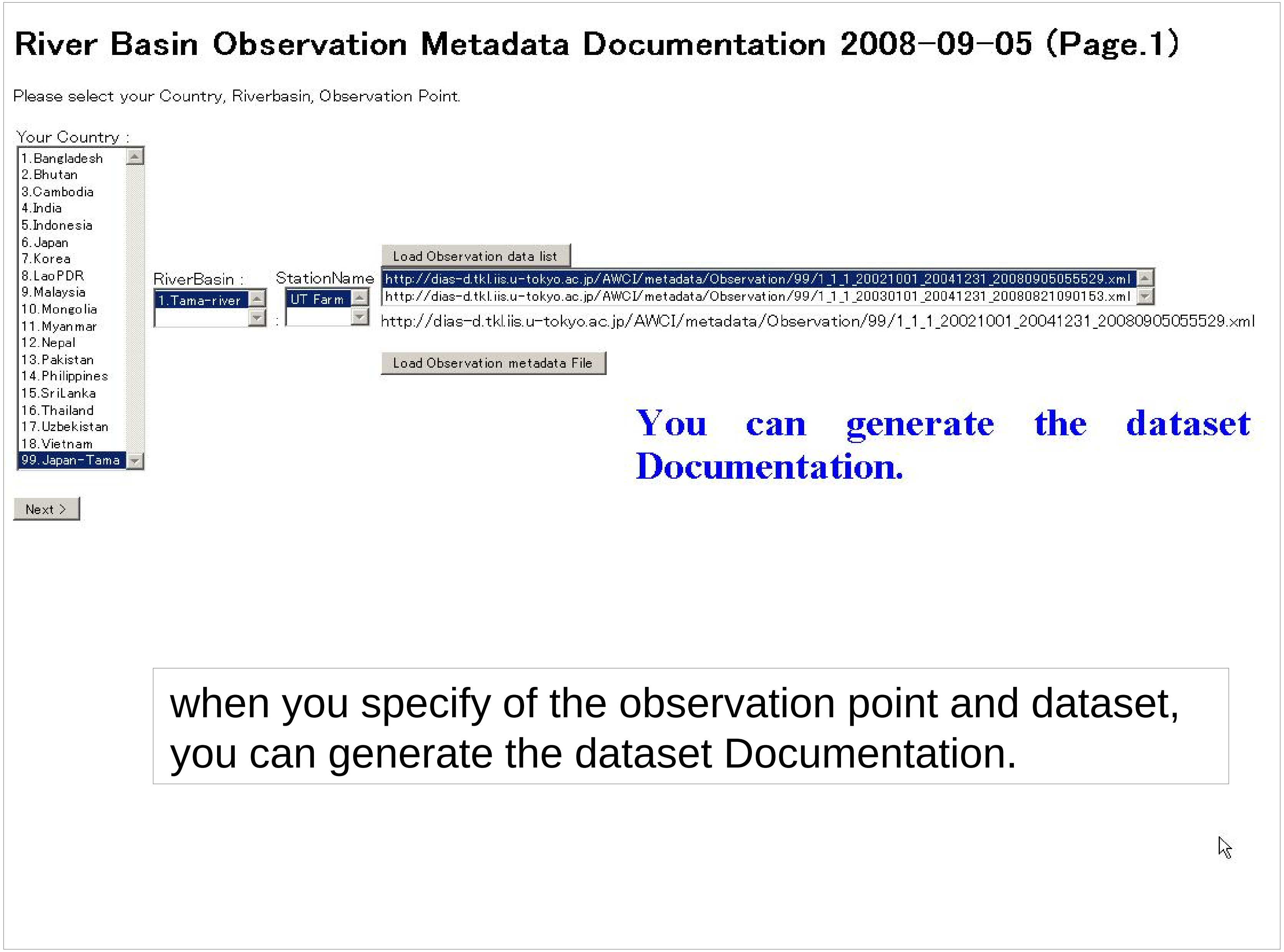
Your submission is saved at **http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/Observation/1/1_1_1_20030301-20050825.xml**.

Return to Observation Information Registration

Return to Top page

When the input process is finished, the metadata XML file is stored at the displayed URL.
You can always see this file.

Document Generation



River Basin Observation Metadata Documentation 2008-09-05 (Page.1)

Please select your Country, Riverbasin, Observation Point.

Your Country :

1.Bangladesh
2.Bhutan
3.Cambodia
4.India
5.Indonesia
6.Japan
7.Korea
8.LaoPDR
9.Malaysia
10.Mongolia
11.Myanmar
12.Nepal
13.Pakistan
14.Philippines
15.SriLanka
16.Thailand
17.Uzbekistan
18.Vietnam
99.Japan-Tama

RiverBasin : 1.Tama-river

StationName : UT Farm

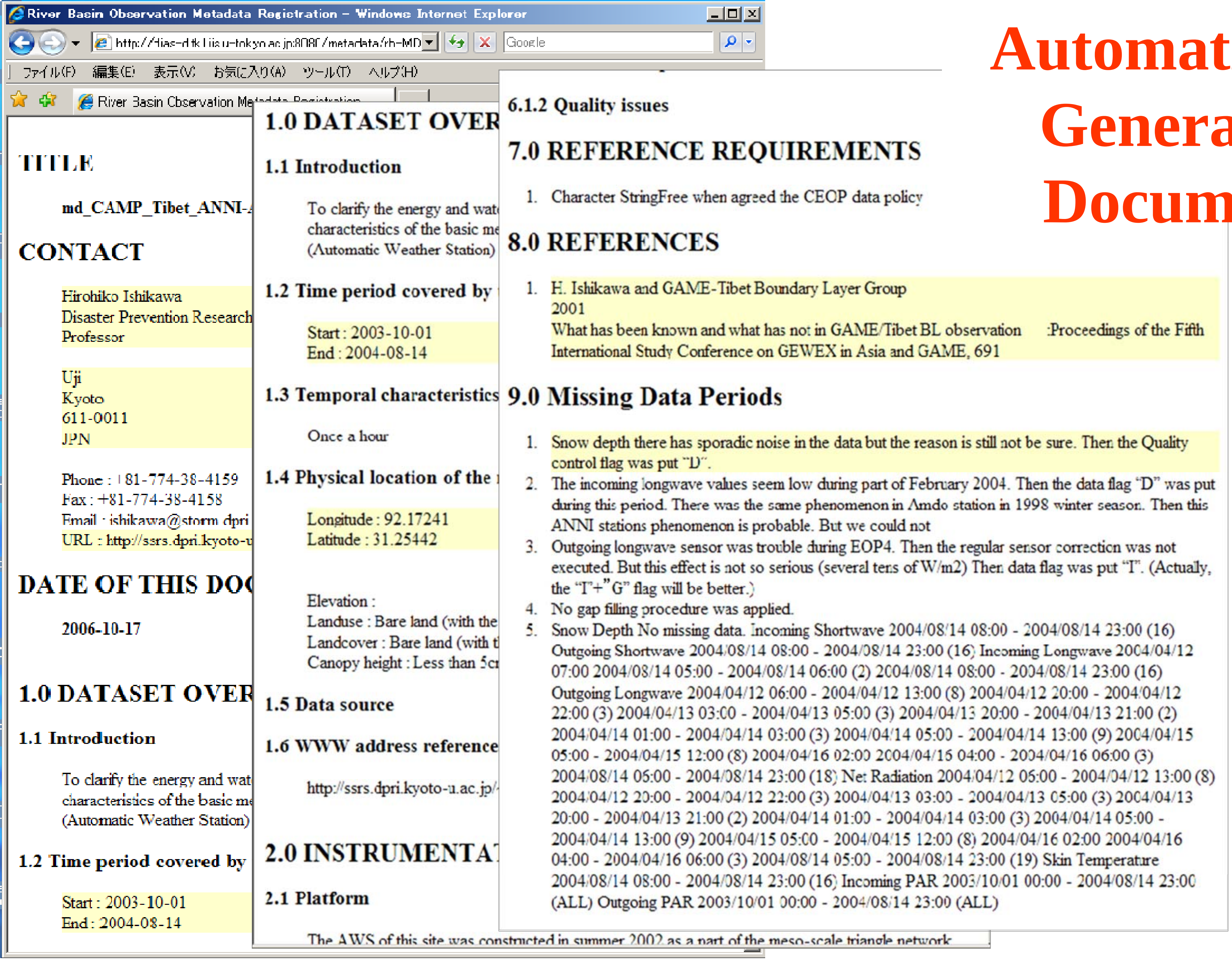
http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/Observation/99/1_1_1_20021001_20041231_20080905055529.xml
http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/Observation/99/1_1_1_20030101_20041231_20080821090153.xml

http://dias-d.tkl.iis.u-tokyo.ac.jp/AWCI/metadata/Observation/99/1_1_1_20021001_20041231_20080905055529.xml

You can generate the dataset Documentation.

when you specify of the observation point and dataset, you can generate the dataset Documentation.

Automatically Generated Document


River Basin Observation Metadata Registration - Windows Internet Explorer
http://dias-dtk.iis.u-tokyo.ac.jp:8080/metadata/rb-MD
Google
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)
River Basin Observation Metadata Registration

TITLE

md_CAMP_Tibet_ANNI-

CONTACT

Hirohiko Ishikawa
Disaster Prevention Research
Professor

Uji
Kyoto
611-0011
JPN

Phone : +81-774-38-4159
Fax : +81-774-38-4158
Email : ishikawa@storm.dpri
URL : http://ssrs.dpri.kyoto-u

DATE OF THIS DOC

2006-10-17

1.0 DATASET OVER

1.1 Introduction

To clarify the energy and wat
characteristics of the basic me
(Automatic Weather Station)

1.2 Time period covered by

Start : 2003-10-01
End : 2004-08-14

1.0 DATASET OVER

1.1 Introduction

To clarify the energy and wat
characteristics of the basic me
(Automatic Weather Station)

1.2 Time period covered by

Start : 2003-10-01
End : 2004-08-14

1.3 Temporal characteristics

Once a hour

1.4 Physical location of the

Longitude : 92.17241
Latitude : 31.25442

Elevation :
Landuse : Bare land (with the
Landcover : Bare land (with t
Canopy height : Less than 5cr

1.5 Data source

1.6 WWW address reference

http://ssrs.dpri.kyoto-u.ac.jp/

2.0 INSTRUMENTAT

2.1 Platform

The AWS of this site was constructed in summer 2002 as a part of the meso-scale triangle network

---

6.1.2 Quality issues

7.0 REFERENCE REQUIREMENTS

1. Character StringFree when agreed the CEOP data policy

8.0 REFERENCES

1. H. Ishikawa and GAME-Tibet Boundary Layer Group
2001
What has been known and what has not in GAME/Tibet BL observation :Proceedings of the Fifth International Study Conference on GEWEX in Asia and GAME, 691

9.0 Missing Data Periods

1. Snow depth there has sporadic noise in the data but the reason is still not be sure. Then the Quality control flag was put "D".
2. The incoming longwave values seem low during part of February 2004. Then the data flag "D" was put during this period. There was the same phenomenon in Amdo station in 1998 winter season. Then this ANNI stations phenomenon is probable. But we could not
3. Outgoing longwave sensor was trouble during EOP4. Then the regular sensor correction was not executed. But this effect is not so serious (several tens of W/m2) Then data flag was put "I". (Actualy, the "I"+"G" flag will be better.)
4. No gap filling procedure was applied.
5. Snow Depth No missing data. Incoming Shortwave 2004/08/14 08:00 - 2004/08/14 23:00 (16) Outgoing Shortwave 2004/08/14 08:00 - 2004/08/14 23:00 (16) Incoming Longwave 2004/04/12 07:00 2004/08/14 05:00 - 2004/08/14 06:00 (2) 2004/08/14 08:00 - 2004/08/14 23:00 (16) Outgoing Longwave 2004/04/12 06:00 - 2004/04/12 13:00 (8) 2004/04/12 20:00 - 2004/04/12 22:00 (3) 2004/04/13 03:00 - 2004/04/13 05:00 (3) 2004/04/13 20:00 - 2004/04/13 21:00 (2) 2004/04/14 01:00 - 2004/04/14 03:00 (3) 2004/04/14 05:00 - 2004/04/14 13:00 (9) 2004/04/15 05:00 - 2004/04/15 12:00 (8) 2004/04/16 02:00 2004/04/16 04:00 - 2004/04/16 06:00 (3) 2004/08/14 05:00 - 2004/08/14 23:00 (18) Net Radiation 2004/04/12 06:00 - 2004/04/12 13:00 (8) 2004/04/12 20:00 - 2004/04/12 22:00 (3) 2004/04/13 03:00 - 2004/04/13 05:00 (3) 2004/04/13 20:00 - 2004/04/13 21:00 (2) 2004/04/14 01:00 - 2004/04/14 03:00 (3) 2004/04/14 05:00 - 2004/04/14 13:00 (9) 2004/04/15 05:00 - 2004/04/15 12:00 (8) 2004/04/16 02:00 2004/04/16 04:00 - 2004/04/16 06:00 (3) 2004/08/14 05:00 - 2004/08/14 23:00 (19) Skin Temperature 2004/08/14 08:00 - 2004/08/14 23:00 (16) Incoming PAR 2003/10/01 00:00 - 2004/08/14 23:00 (ALL) Outgoing PAR 2003/10/01 00:00 - 2004/08/14 23:00 (ALL)

Summary

1. Outline of DIAS System - DIAS Core system which can co-exist of Energy Saving and Peta-scale Storage Space
2. Introduction of Data Upload, Meta-Data Registration, and Quality Control System -- all systems can support observers to regist data and information to DIAS with easy/user-friendly interface..

Outline

1. Outline of DIAS System
2. Introduction of Data Upload, Quality Control, and Meta-Data Registration System

3. Introduction of CEOP Satellite Data Gateway system
4. Applications on DIAS System