CEOP
Data Upload, Quality Control and Meta-Data Registration System

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Hiroko Kinutani*, Tetsu Ohta**

and

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***Earth Observation Data Integration and Fusion Research Initiative, UT**

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

*****Department of Civil Engineering, UT**

Outline

1. Framework of CEOP Data Upload, Quality Control, and Meta-Data Registration System.
2. Introduction of **Data Upload System**
   - Background, User Interface (Demo), Recent Status
3. Introduction of **Data Quality Control System**
   - Background, User Interface (Demo), Recent Status
4. Overview of Meta-Data Registration System

→ cont. Dr. Yasukawa's presentation

Outline of the Data Management

To utilize great variety data for integrated use, it usually requires many processes for the data provider,

Raw Data pre checking

Quality Controlling,

Unified Format conversion,

Meta data registration,

Dataset documentation,

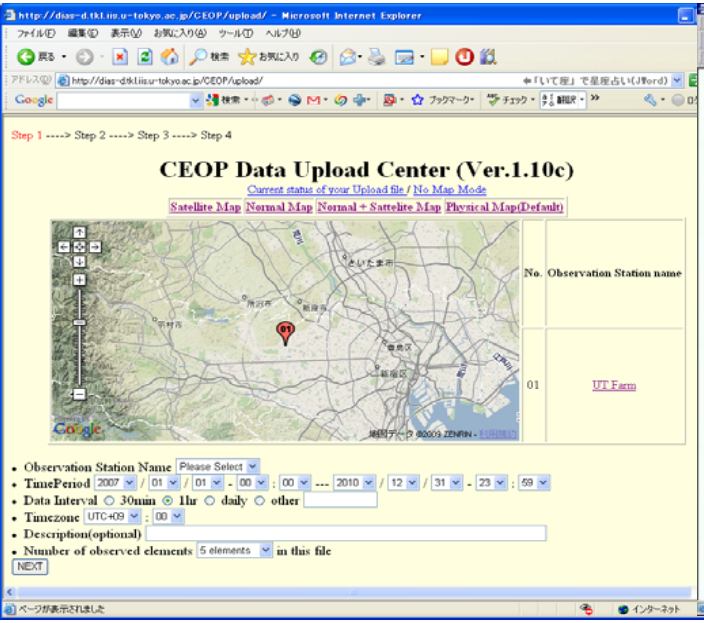
And so on ..

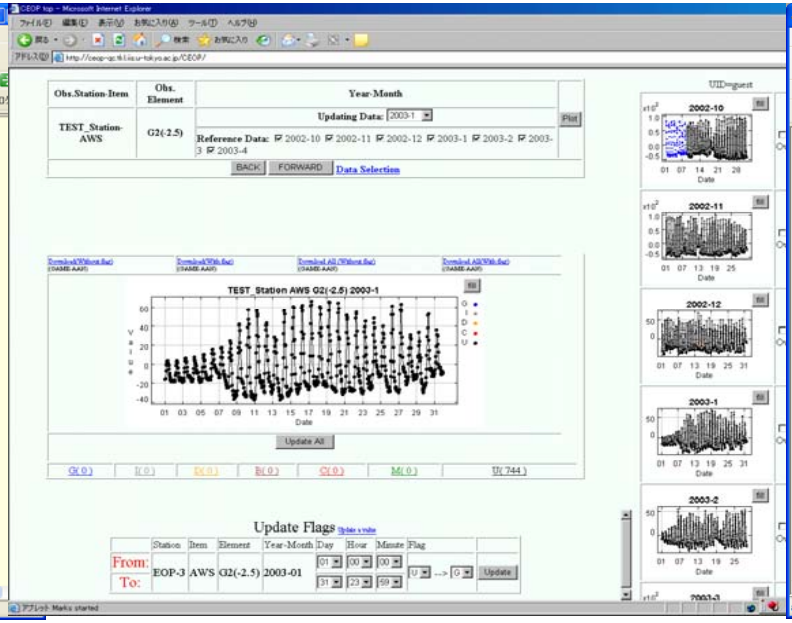
→Data provider takes a lot of Time and Energy

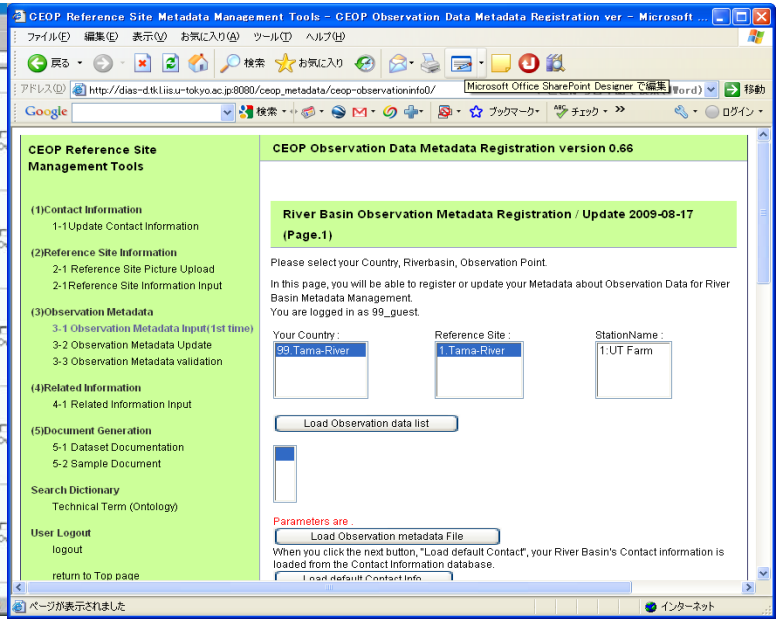
Outline of the Data Management

- To reduce all the work and time for these processes,

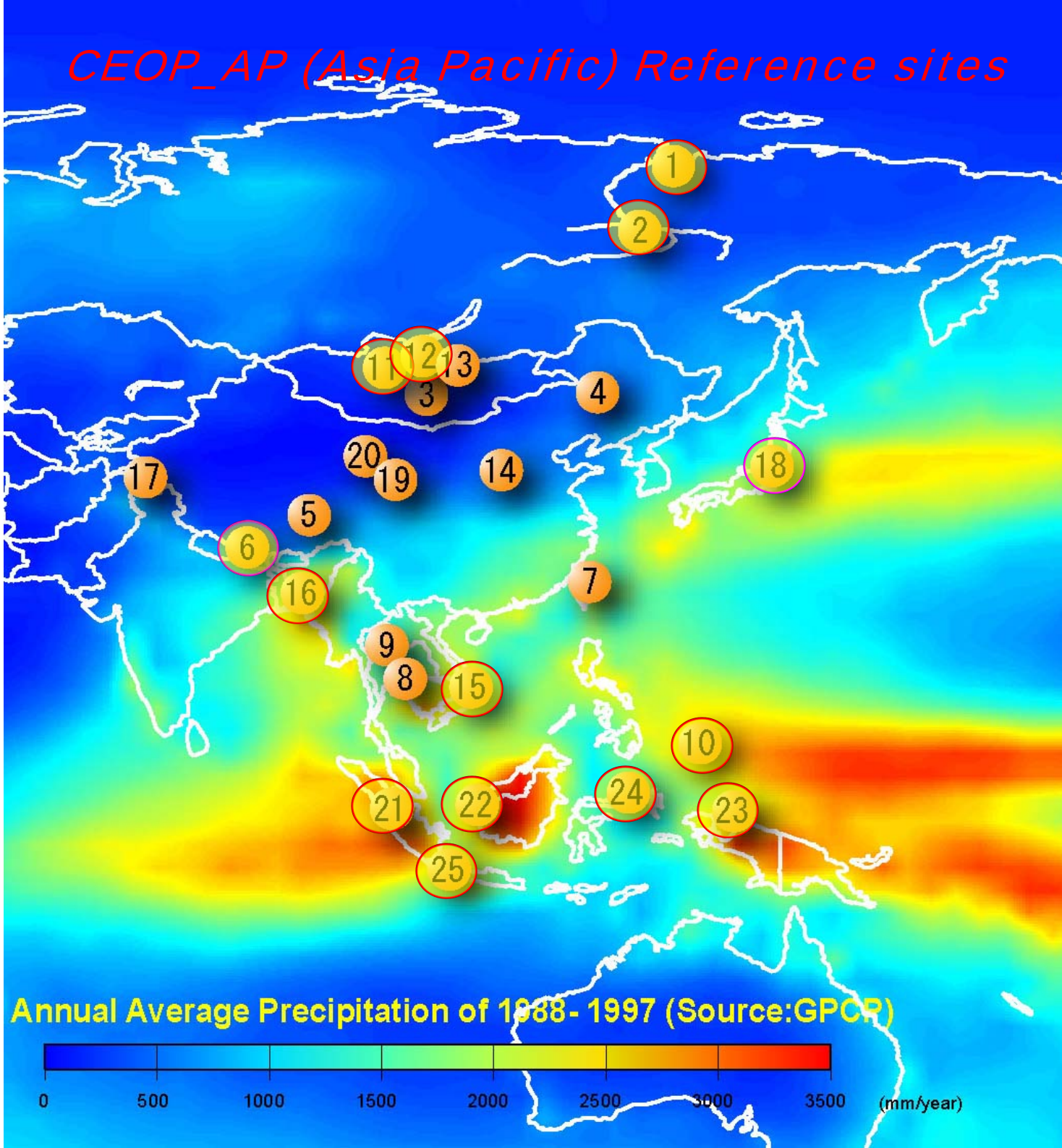
- The UT team has been establishing **Web based data upload** , **Quality Control** and **Meta Data Registration System** that data provider can use through the web.



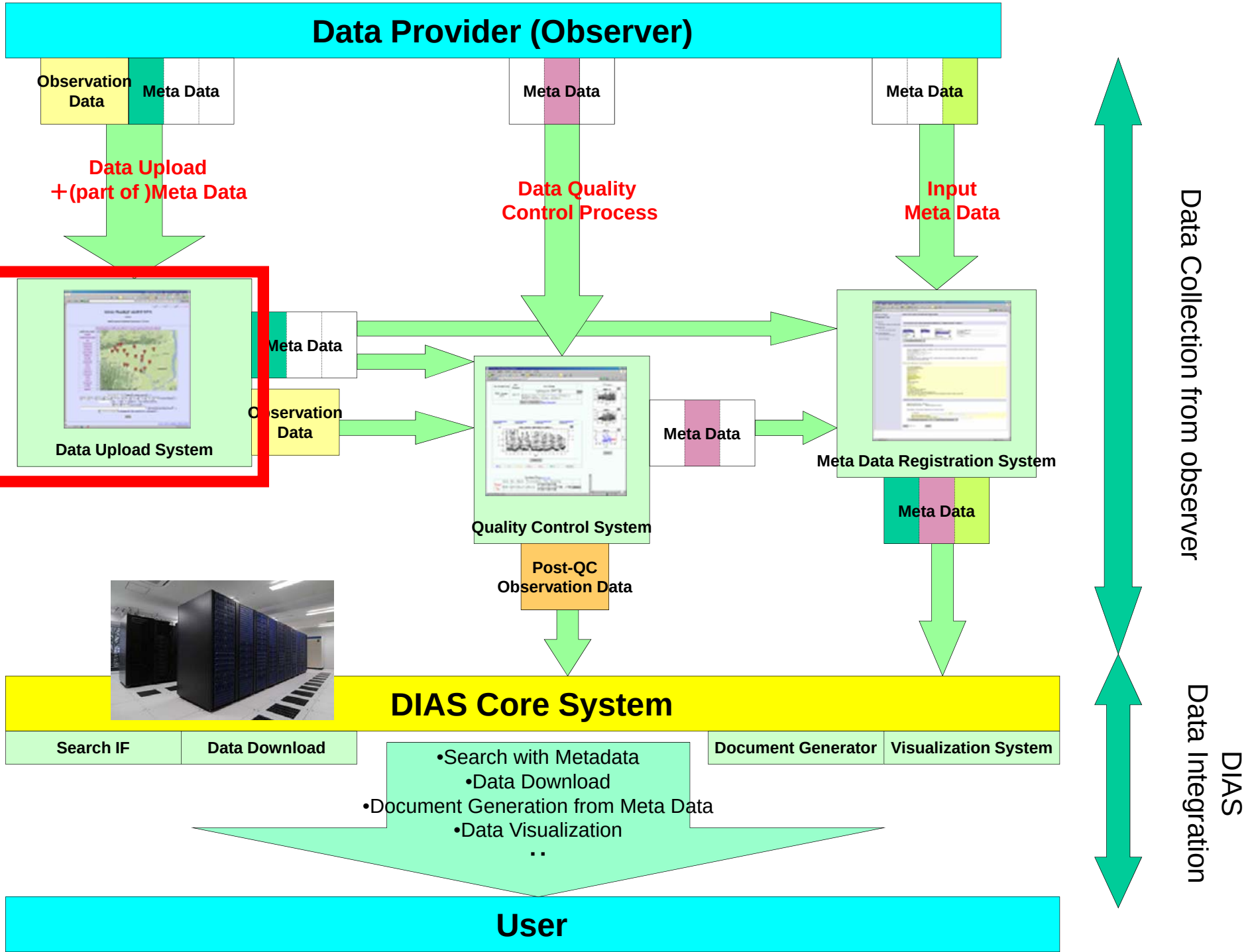




No.	Ref. Site Name
1	Eastern Siberian Tundra
2	Eastern Siberian Taiga
3	Mongolia
4	Tongyu
5	Tibet
6	Himalayas
7	Northern South China Sea - Southern Japan
8	Chao-Phraya River
9	North-East Thailand
10	Western Pacific Ocean
11	Mongolia Arvayheer
12	Mongolia Nalaikh
13	Northern Mongolia
14	Lower Yellow River
15	Central Vietnam
16	Northeast Bangladesh
17	Pakistan Karakorum
18	Tsukuba
19	Lanzhou
20	Heihe River Basin
21	Western Indonesia
22	Central Indonesia
23	Eastern Indonesia
24	Northern Indonesia
25	Southern Indonesia



CEOP Observation Data Management System



Observation Data **Upload** System

Eiji Ikoma

Katsunori Tamagawa, Hiroko Kinutani,

Tetsu Ohta, Toshio Koike, Masaru Kitsuregawa

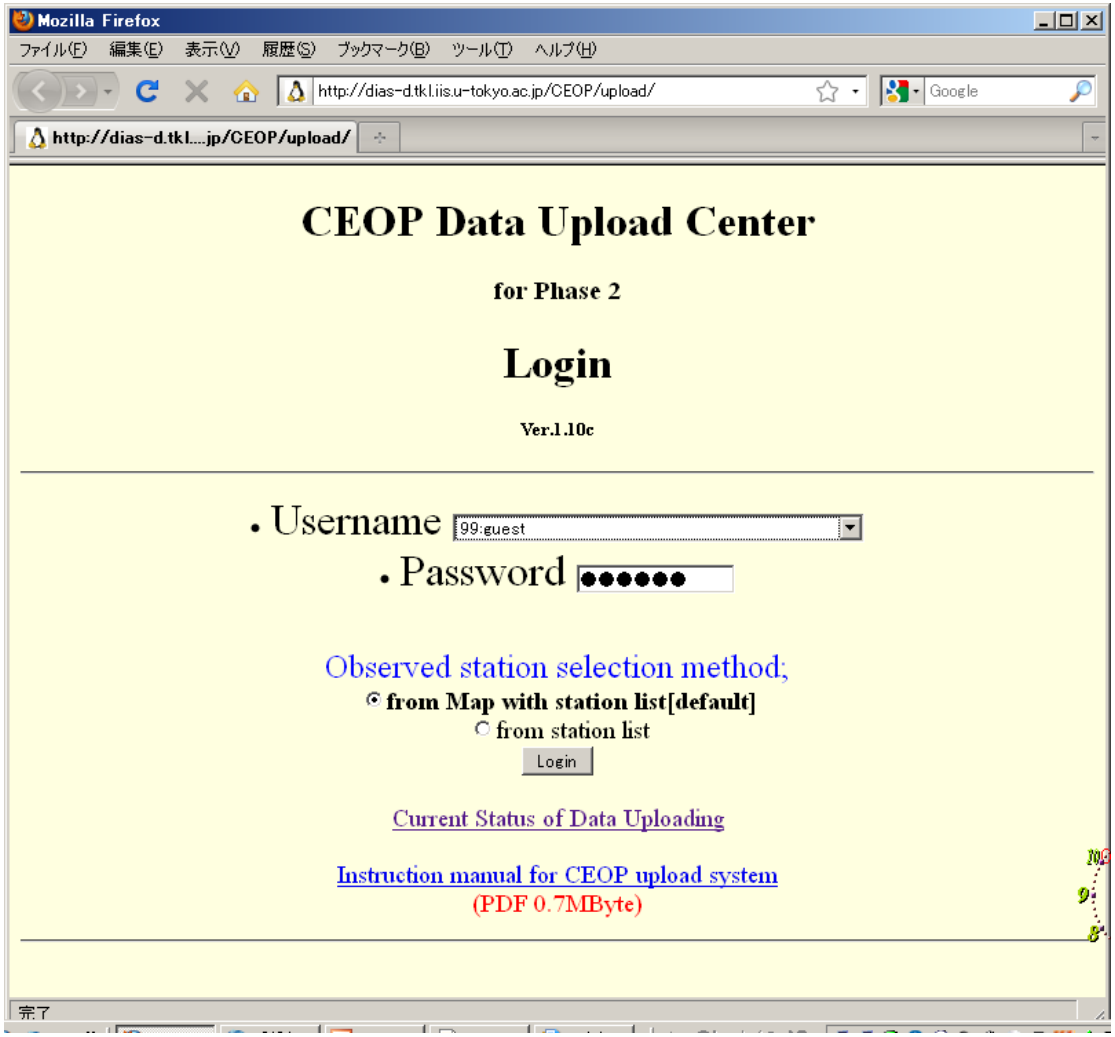
On-line Data Upload

- Observers have sent their own data to data administrators with the means of e-mail or mail before.
- However, by these methods, there were lots of problem, like the point that the file format and meta information are not unified, the point which requires much time and effort to send the data for observers, and also processing take lots of time, etc..
- So, we have started to develop on-line data upload system for CEOP Asia-Pacific data, which is in cooperation with Data Quality Control System, Meta-Data Registration System, and Data Archiving System.

Data Upload System

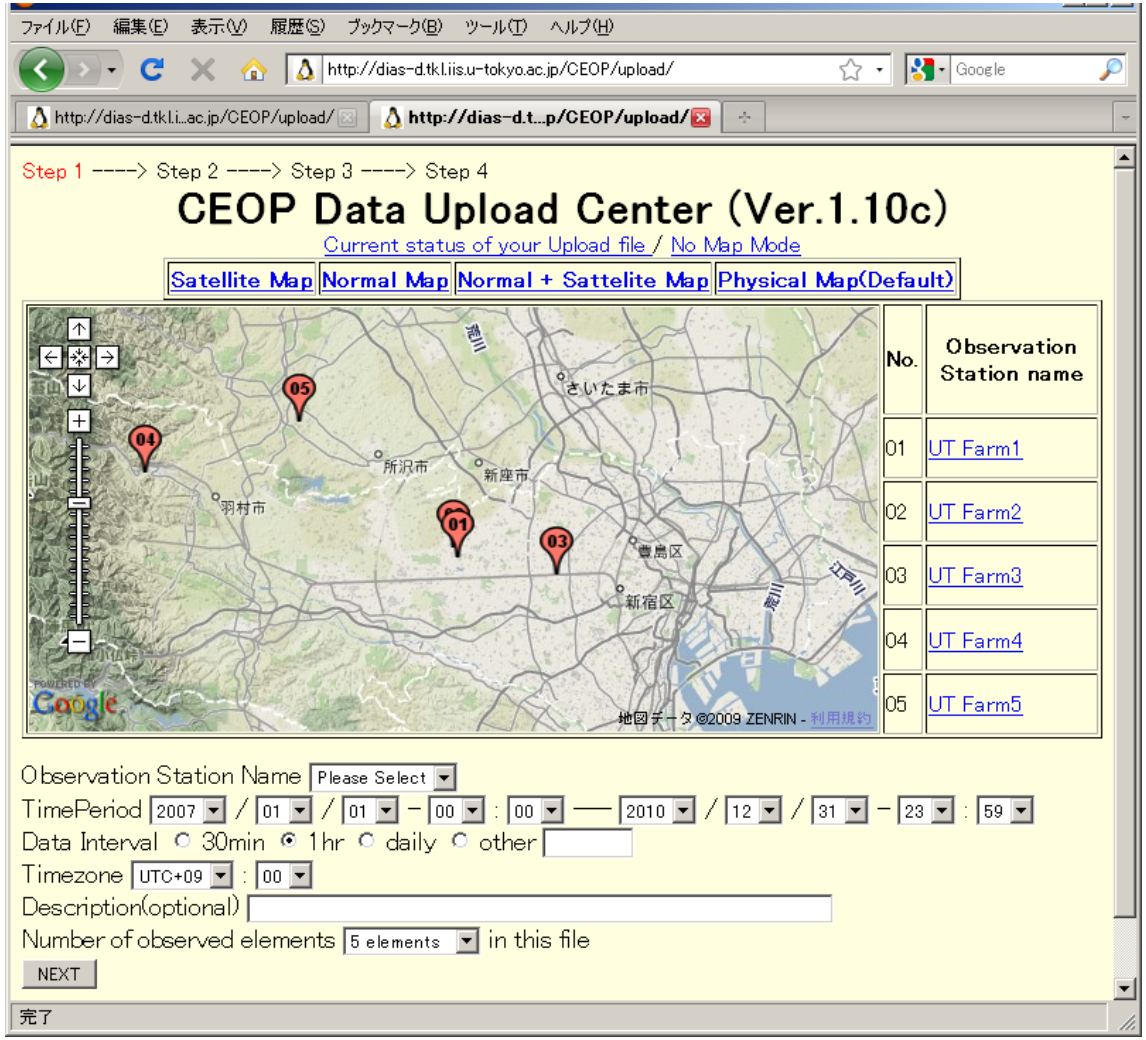
- Observers can upload observation data and input some Metadata on Web Interface consisted of 4 steps.
- On each step, observers need to input some information about the data.
- Easy Operation and Quick Response.
- This system has some function which **reduce** the complicatedness of upload process

Login Page
(Ver3.01c for CEOP)



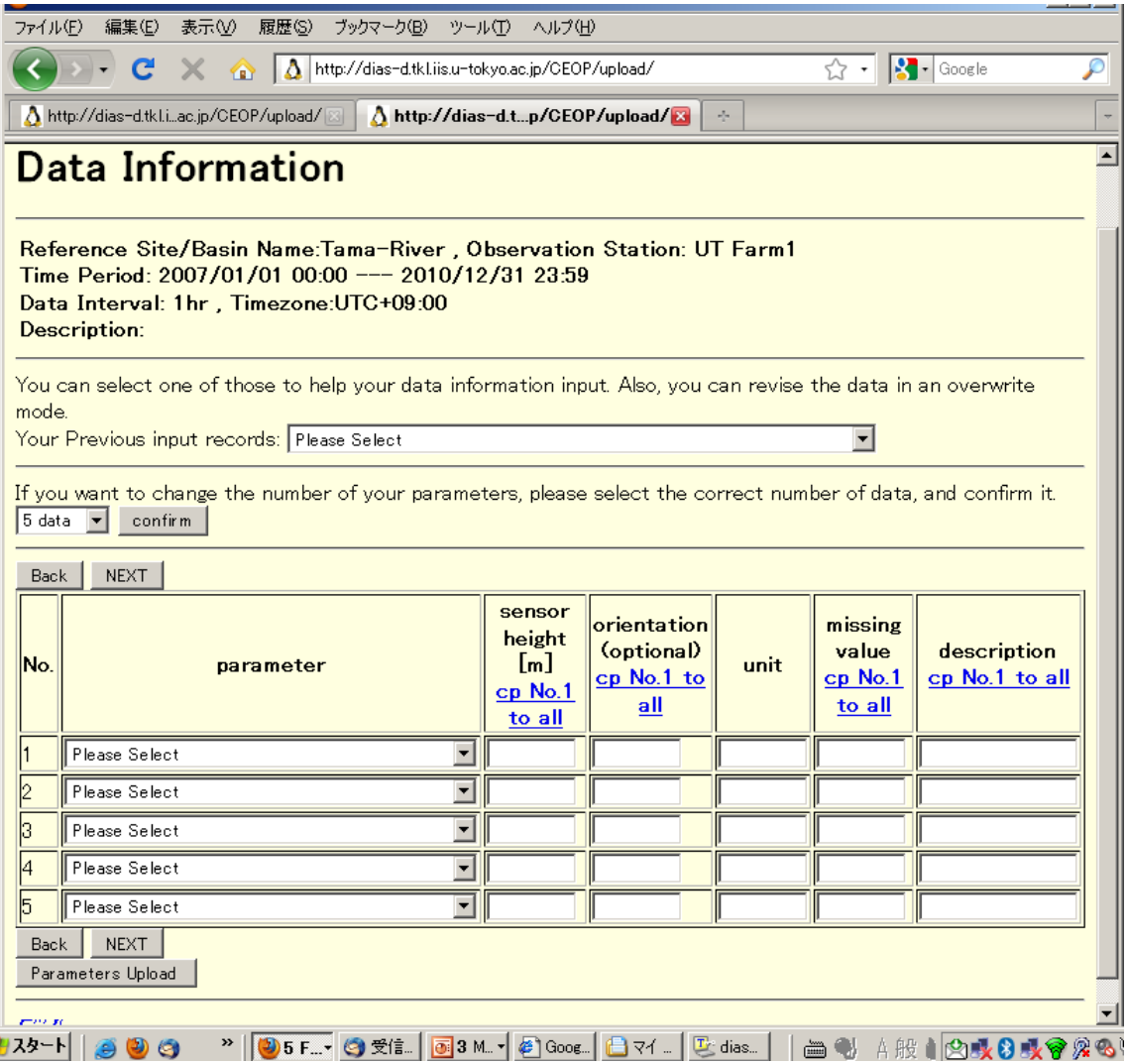
- Username and Password are required.
- Each observation site manager has it own (unique) username and password.

STEP1



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

STEP2

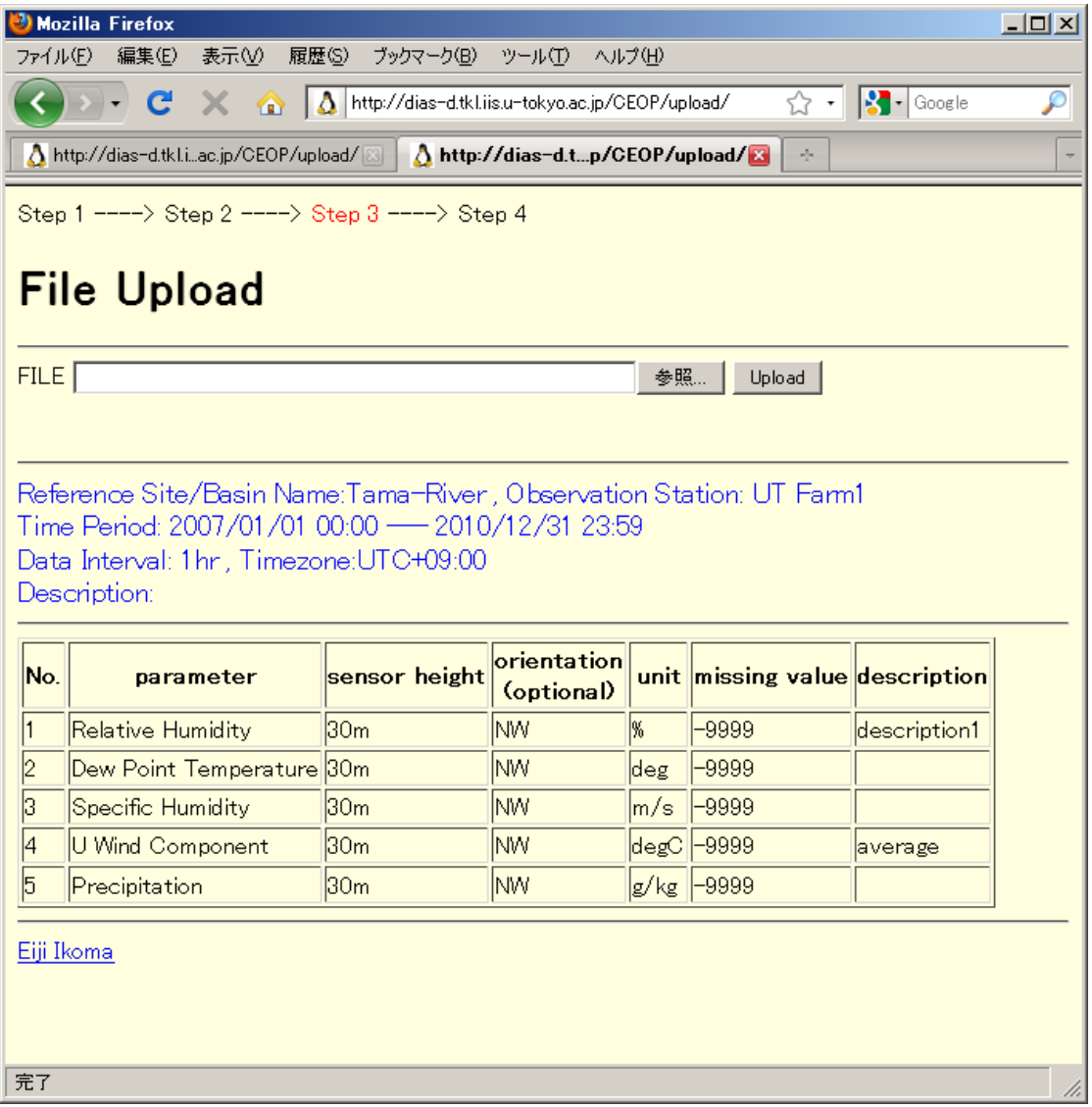


- Observation Data
  - Choose from pulldown menu
- Sensor height
- Orientation(op.)
- Unit
- Missing value
- Description(op.)

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**

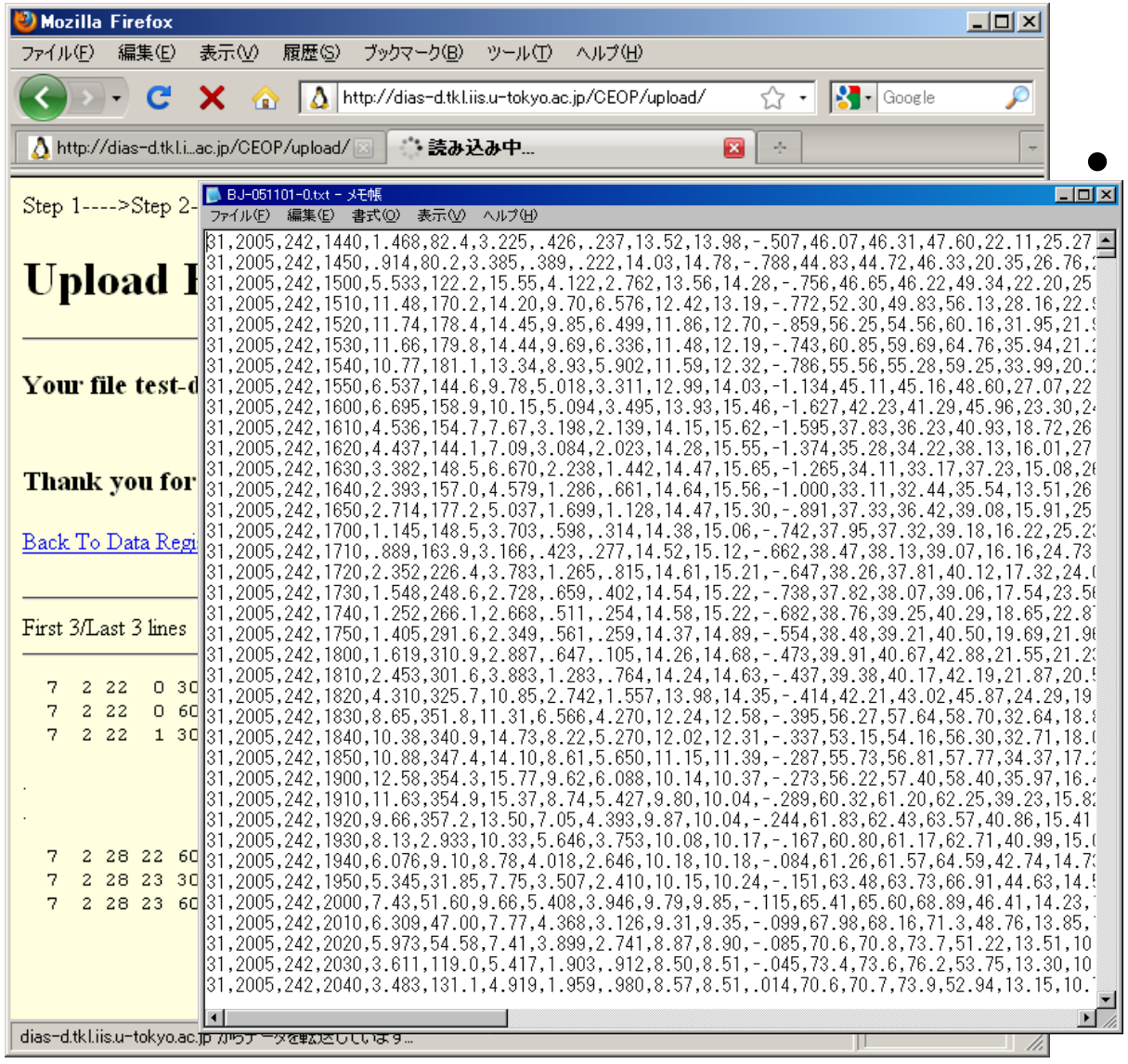
STEP3



No.	parameter	sensor height	orientation (optional)	unit	missing value	description
1	Relative Humidity	30m	NW	%	-9999	description1
2	Dew Point Temperature	30m	NW	deg	-9999	
3	Specific Humidity	30m	NW	m/s	-9999	
4	U Wind Component	30m	NW	degC	-9999	average
5	Precipitation	30m	NW	g/kg	-9999	

- Upload observation Data(File).
- Confirmation of metada 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

Confirmation Message by e-mail

CEOP Data Upload Tama-River UT Farm1 - Thunderbird

ファイル(F) 編集(E) 表示(V) 移動(G) メッセージ(M) ツール(T) ヘルプ(H)

受信 作成 アドレス帳 返信 全員に返信 転送 タグ 削除 迷惑メール 印刷 戻る 進む

件名: CEOP Data Upload Tama-River UT Farm 差出人: eikoma@tkl.iis.u-tokyo.ac.jp 12:47

Reference Site/Basin Name: Tama-River
Point ID:UT Farm1
TimePeriod: 2007/01/01 00:00--2010/12/31 23:59
Data Interval: 1hr
Timezone: UTC+09:00
Description:
Num. of stations: 5
Data Information is:
http://dias-d.tkl.iis.u-tokyo.ac.jp/CEOP/upload/data/99/20090820124111199/doc.html
Meta Data Information is:
http://dias-d.tkl.iis.u-tokyo.ac.jp/CEOP/upload/data/99/20090820124111199/xml.xml
Your Upload Files are:
http://dias-d.tkl.iis.u-tokyo.ac.jp/CEOP/upload/cgi-bin/doclist.sh?99+0

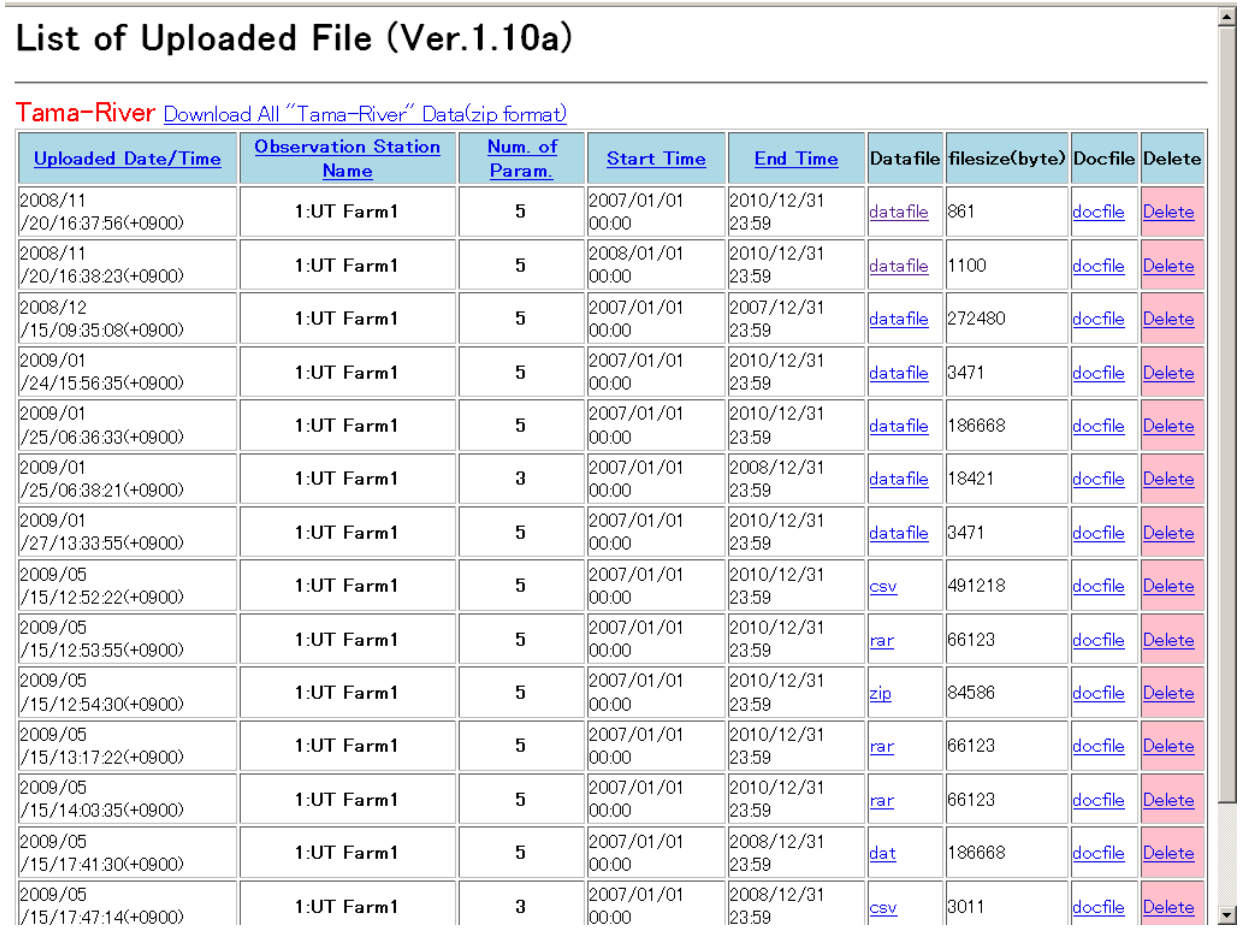
http://dias-d.tkl.iis.u-tokyo.ac.jp/CEOP/upload/cgi-bin/doclist.sh?99+0

For Administrators (e-mail to mobile-phone)

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

List of uploaded file



List of Uploaded File (Ver.1.10a)

Tama-River Download All "Tama-River" Data(zip format)

Uploaded Date/Time	Observation Station Name	Num. of Param.	Start Time	End Time	Datafile	filesize(byte)	Docfile	Delete
2008/11 /20/16:37:56(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	datafile	861	docfile	Delete
2008/11 /20/16:38:23(+0900)	1:UT Farm1	5	2008/01/01 00:00	2010/12/31 23:59	datafile	1100	docfile	Delete
2008/12 /15/09:35:08(+0900)	1:UT Farm1	5	2007/01/01 00:00	2007/12/31 23:59	datafile	272480	docfile	Delete
2009/01 /24/15:56:35(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	datafile	3471	docfile	Delete
2009/01 /25/06:36:33(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	datafile	186668	docfile	Delete
2009/01 /25/06:38:21(+0900)	1:UT Farm1	3	2007/01/01 00:00	2008/12/31 23:59	datafile	18421	docfile	Delete
2009/01 /27/13:33:55(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	datafile	3471	docfile	Delete
2009/05 /15/12:52:22(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	csv	491218	docfile	Delete
2009/05 /15/12:53:55(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	rar	66123	docfile	Delete
2009/05 /15/12:54:30(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	zip	84586	docfile	Delete
2009/05 /15/13:17:22(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	rar	66123	docfile	Delete
2009/05 /15/14:03:35(+0900)	1:UT Farm1	5	2007/01/01 00:00	2010/12/31 23:59	rar	66123	docfile	Delete
2009/05 /15/17:41:30(+0900)	1:UT Farm1	5	2007/01/01 00:00	2008/12/31 23:59	dat	186668	docfile	Delete
2009/05 /15/17:47:14(+0900)	1:UT Farm1	3	2007/01/01 00:00	2008/12/31 23:59	csv	3011	docfile	Delete

You can check your uploaded file here.

- Data Download
- Check metadata
- Delete uploaded data

Upload Status of All CEOP Data

(automatically updated per every access)

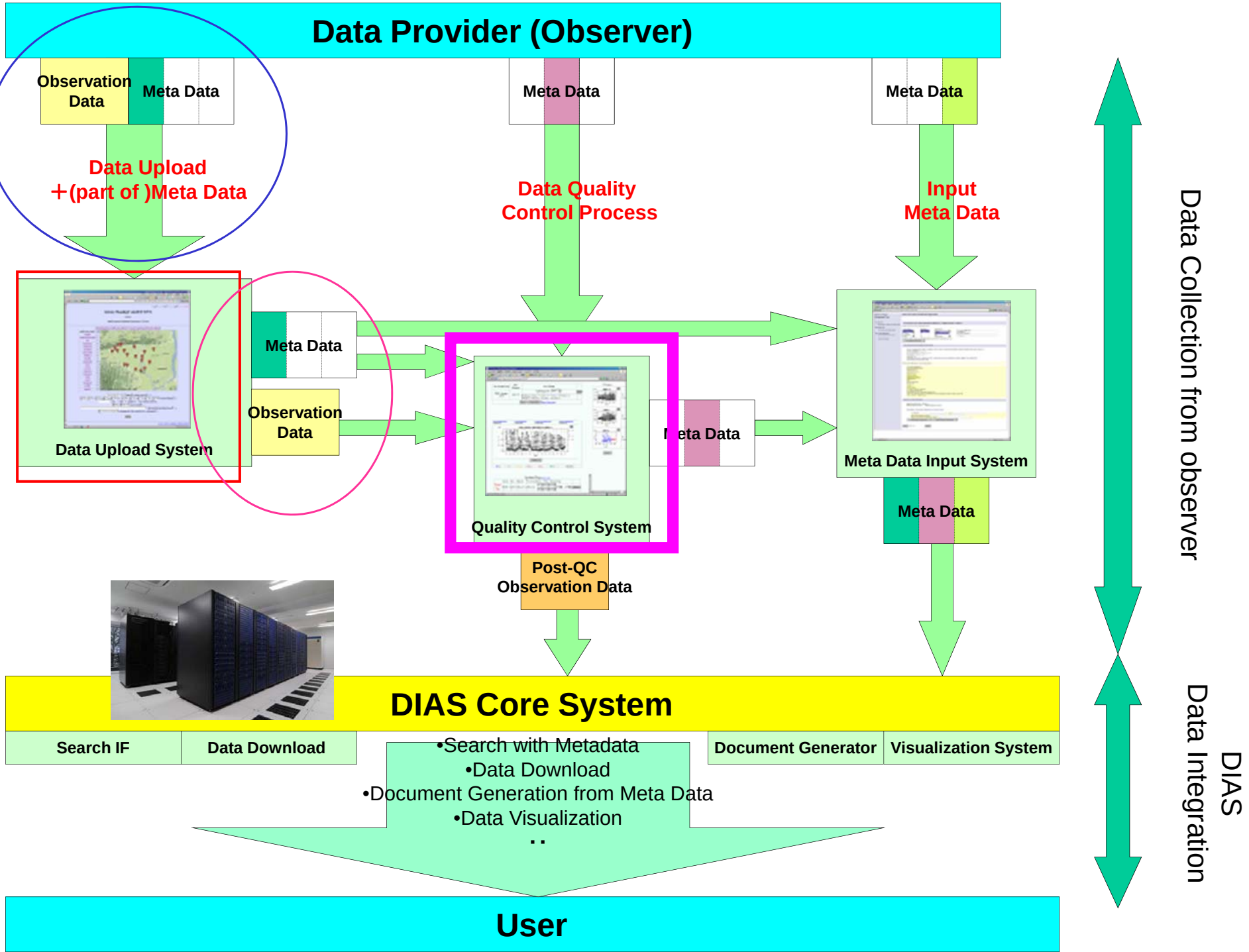
Upload Status for CEOP(RID=01...25)

as of *Thu Aug 20 11:27:56 JST 2009*

Now calculating....
RID= 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25,
Done.

RID	RefSite	SID	Station	-2006	2007												2008												2009-
					01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01	Eastern Siberian Tundra	01	Tiksi		36	36	36	36	36	36	36	36	36	36	36	36													
RID	RefSite	SID	Station	-2006	2007												2008												2009-
					01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
02	Eastern Siberian Taiga	01	Yakutsk		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	○
RID	RefSite	SID	Station	-2006	2007												2008												2009-
					01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
03	Mongolia	01	Mandalgobi																										
		02	Ulannbaator																										
RID	RefSite	SID	Station	-2006	2007												2008												2009-
					01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
04	Tongyu	01	Cropland																										
		02	Grassland																										
RID	RefSite	SID	Station	-2006	2007												2008												2009-
					01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
05	Tibet	01	Naqu																										
		02	Gaize		4	4	4	4	4	4	4	4	4	4	4	4													
		03	Dali																										
		04	Linzhi																										

CEOP Observation Data Management System



CEOP Observation Data Quality Control (QC) System

Eiji Ikoma, Katsunori Tamagawa,

Tetsu Ohta, Kenji Taniguchi,

Toshio Koike, Masaru Kitsuregawa

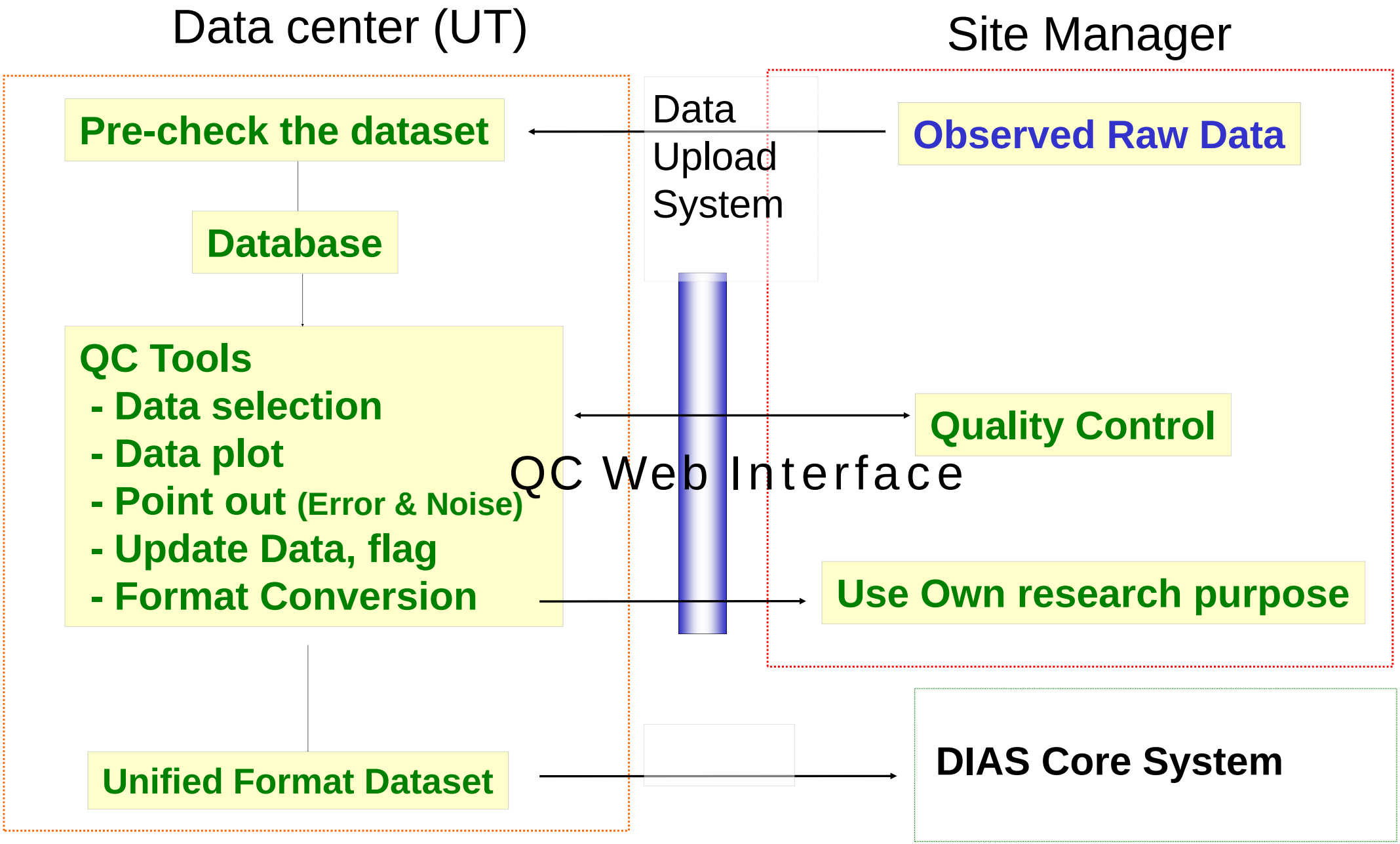
Our QC System

- 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.xxx
  - ***Ver3.00(for JICA=3 sites, 12 stations.,),***
  - ***Ver3.01a(for AWCI=18 sites, 291 stations.),***
  - ***Ver3.01c(for CEOP=25 sites, 76 stations.) are now running***
- We are operating QC-V3(Ver.3.01c) system for CEOP Phase2 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



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12	Mongolia Nalaikh
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17	Pakistan Karakorum
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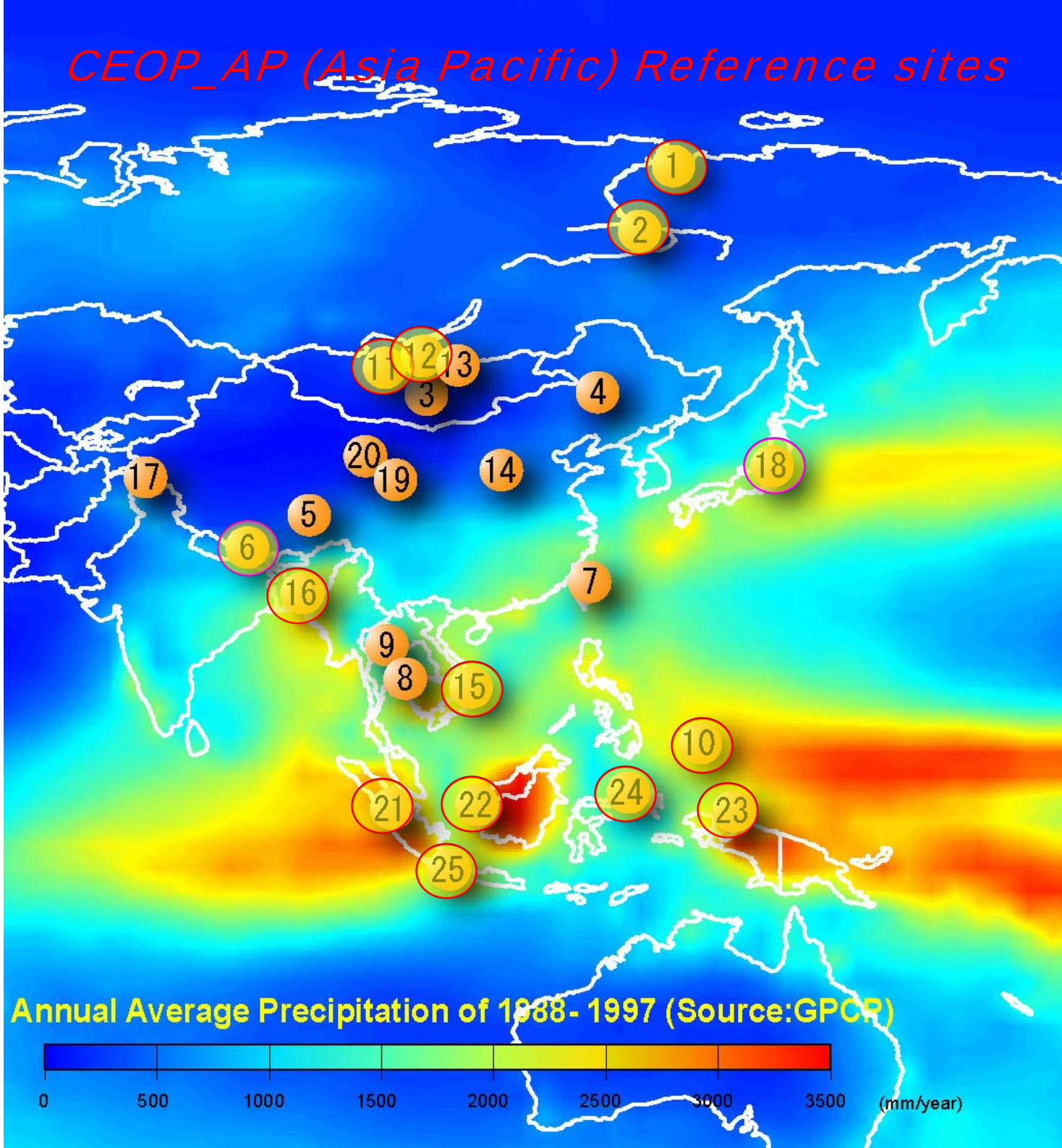
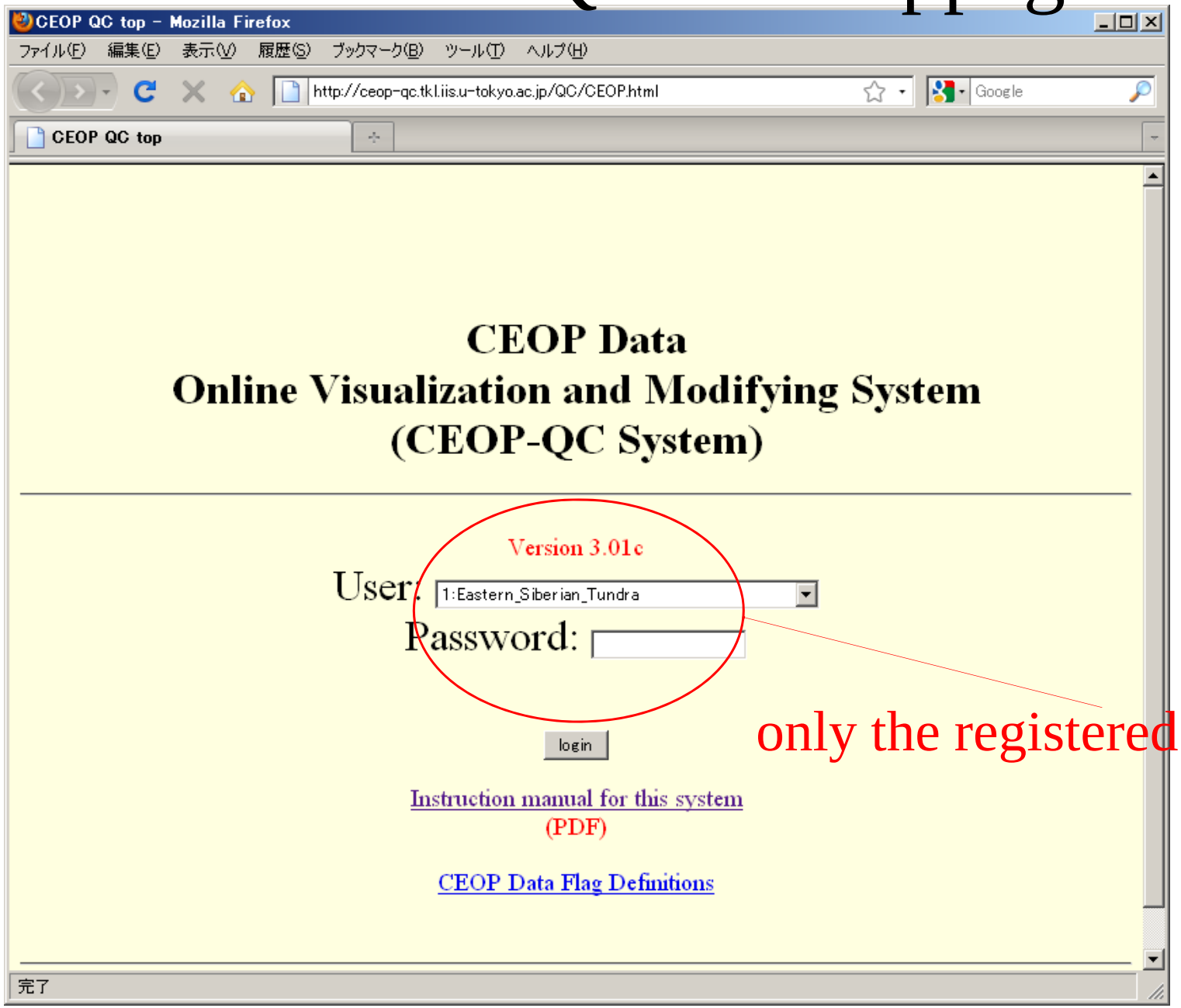
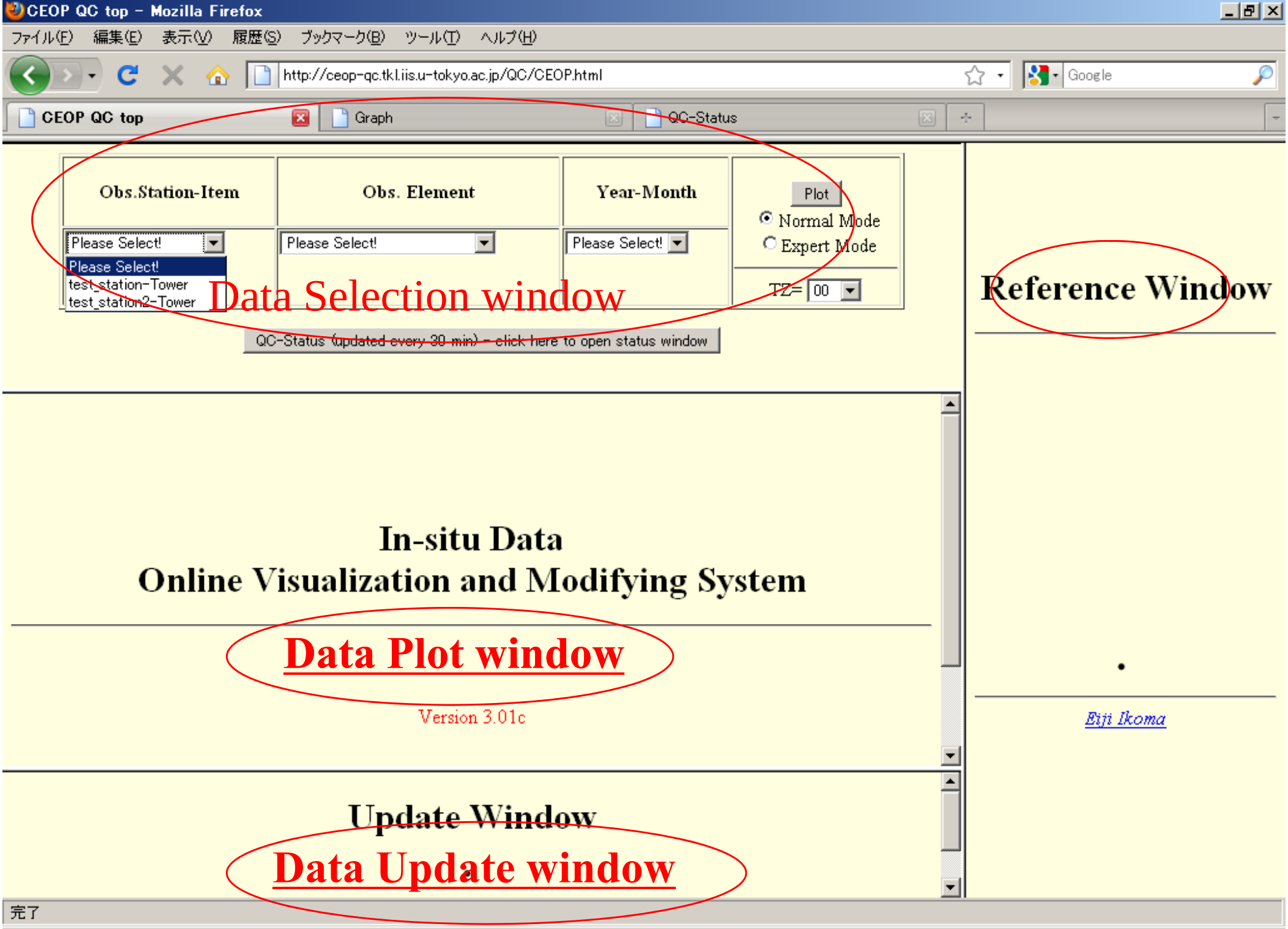
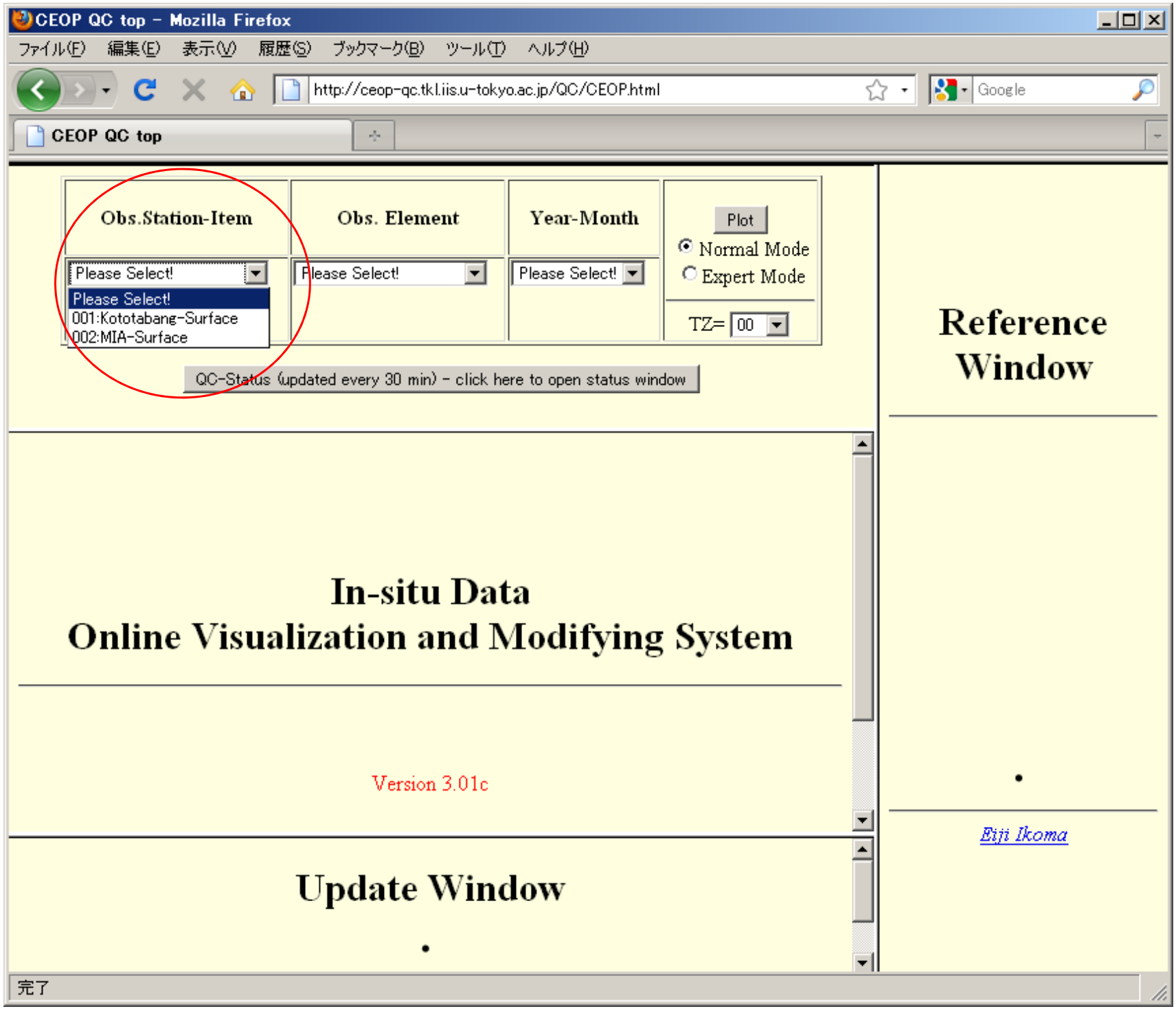


CEOP Data QC-V3 Toppage



only the registered member can


CEOP QC top – Mozilla Firefox
ファイル(F) 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://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/CEOP.html
Google
CEOP QC top
Graph
QC-Status
Obs.Station-Item
Obs. Element
Year-Month
Plot
Normal Mode
Expert Mode
Please Select!
Please Select!
Please Select!
Please Select!
test_station-Tower
test_station2-Tower
TZ= 00
Data Selection window
QC-Status (updated every 30 min) - click here to open status window
Reference Window
In-situ Data
Online Visualization and Modifying System
Data Plot window
Version 3.01c
Eiji Ikoma
Update Window
Data Update window
完了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Google
CEOP QC top
Obs.Station-Item
Obs. Element
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Normal Mode
Expert Mode
Please Select!
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Please Select!
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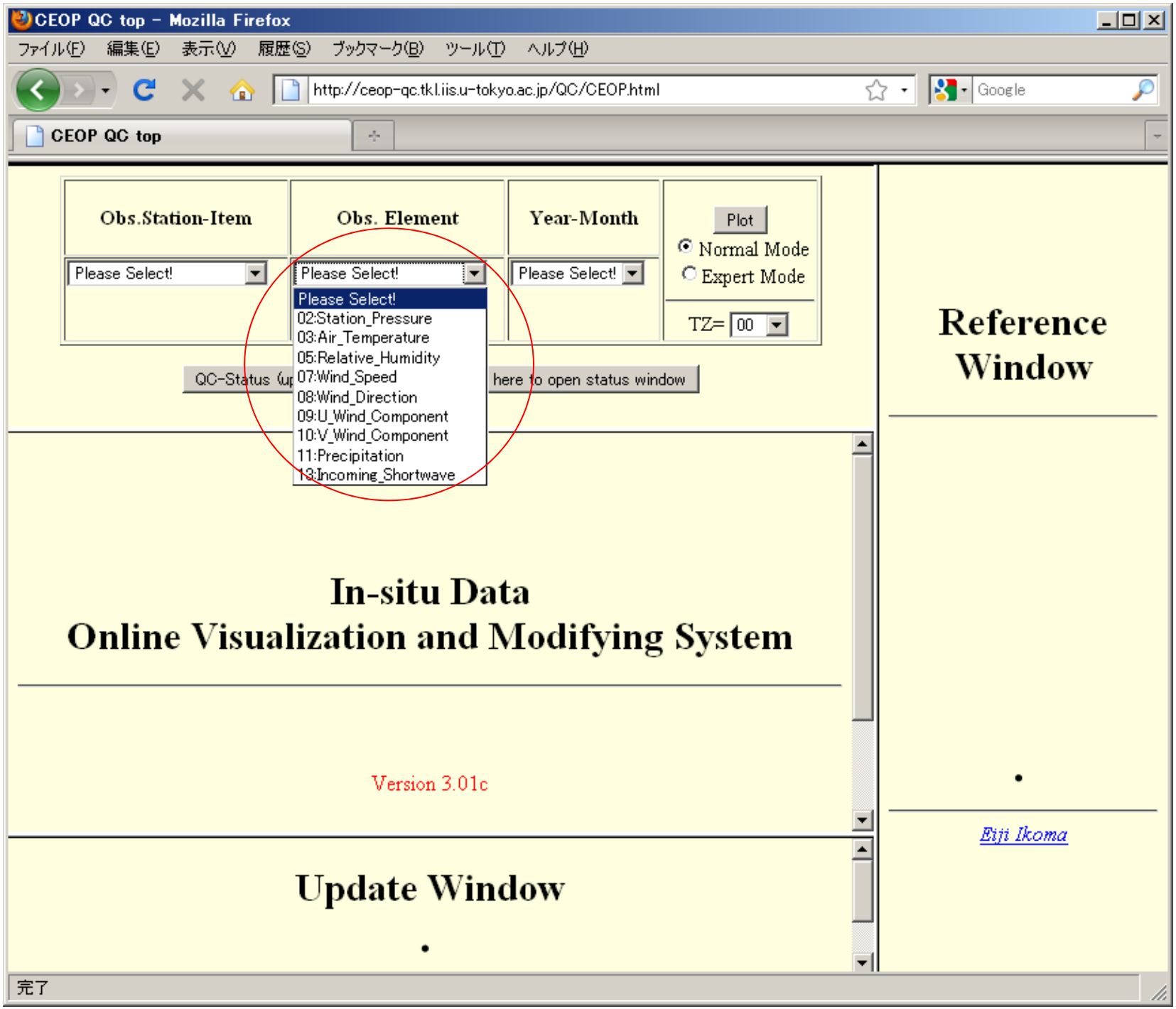
002:MIA-Surface
TZ= 00
QC-Status (updated every 30 min) - click here to open status window
Reference Window
In-situ Data
Online Visualization and Modifying System
Version 3.01c
Eiji Ikoma
Update Window
完了


CEOP QC top - Mozilla Firefox
ファイル(F) 編集(E) 表示(V) 履歴(S) ブックマーク(B) ツール(T) ヘルプ(H)
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Google
CEOP QC top
Obs.Station-Item
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Plot
Normal Mode
Expert Mode
TZ=
00
Please Select!
Please Select!
02:Station_Pressure
03:Air_Temperature
05:Relative_Humidity
07:Wind_Speed
08:Wind_Direction
09:U_Wind_Component
10:V_Wind_Component
11:Precipitation
13:Incoming_Shortwave
here to open status window
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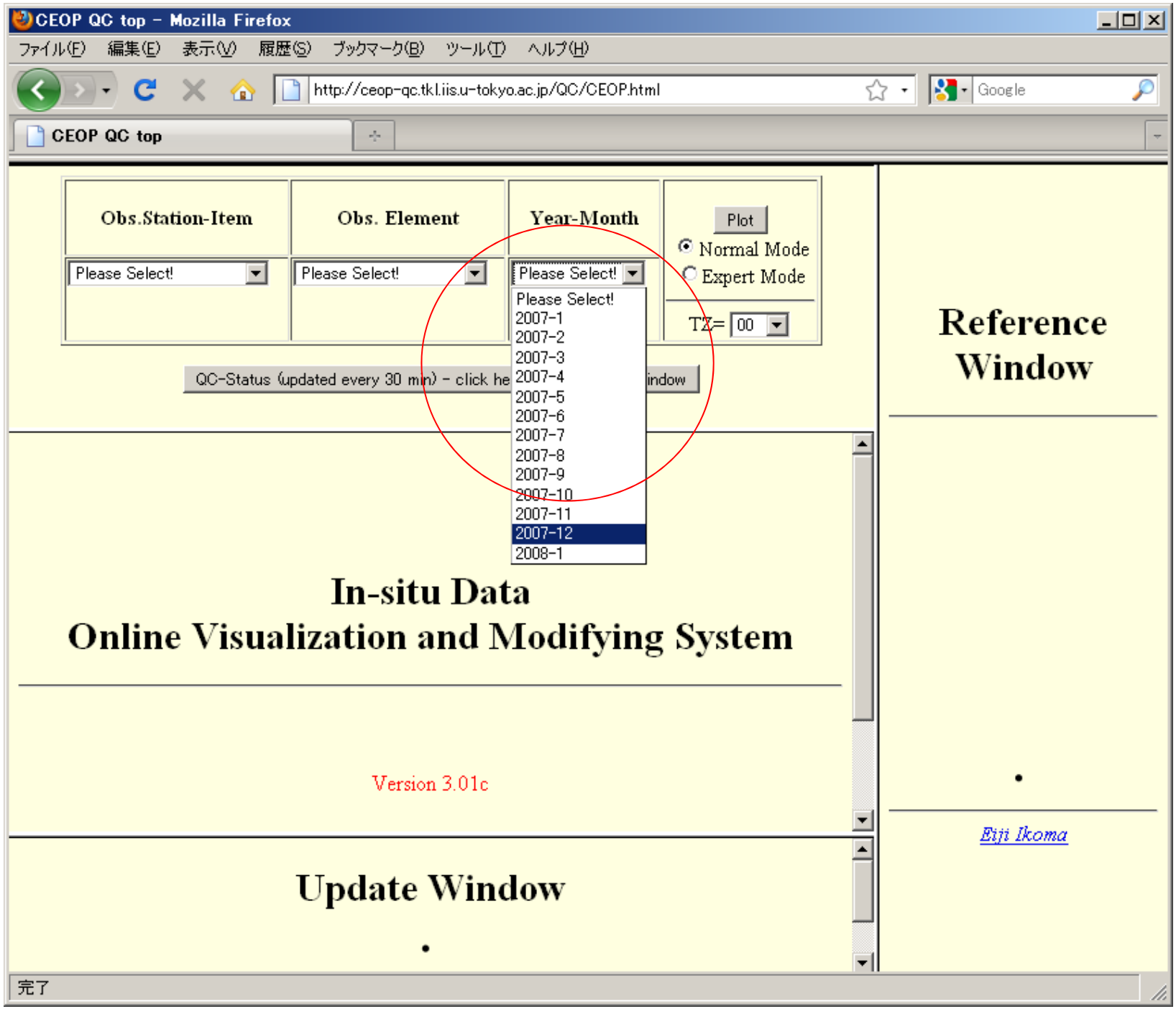
Online Visualization and Modifying System
Version 3.01c
Update Window
Reference Window
Eiji Ikoma
完了


CEOP QC top - Mozilla Firefox
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CEOP QC top
Obs.Station-Item
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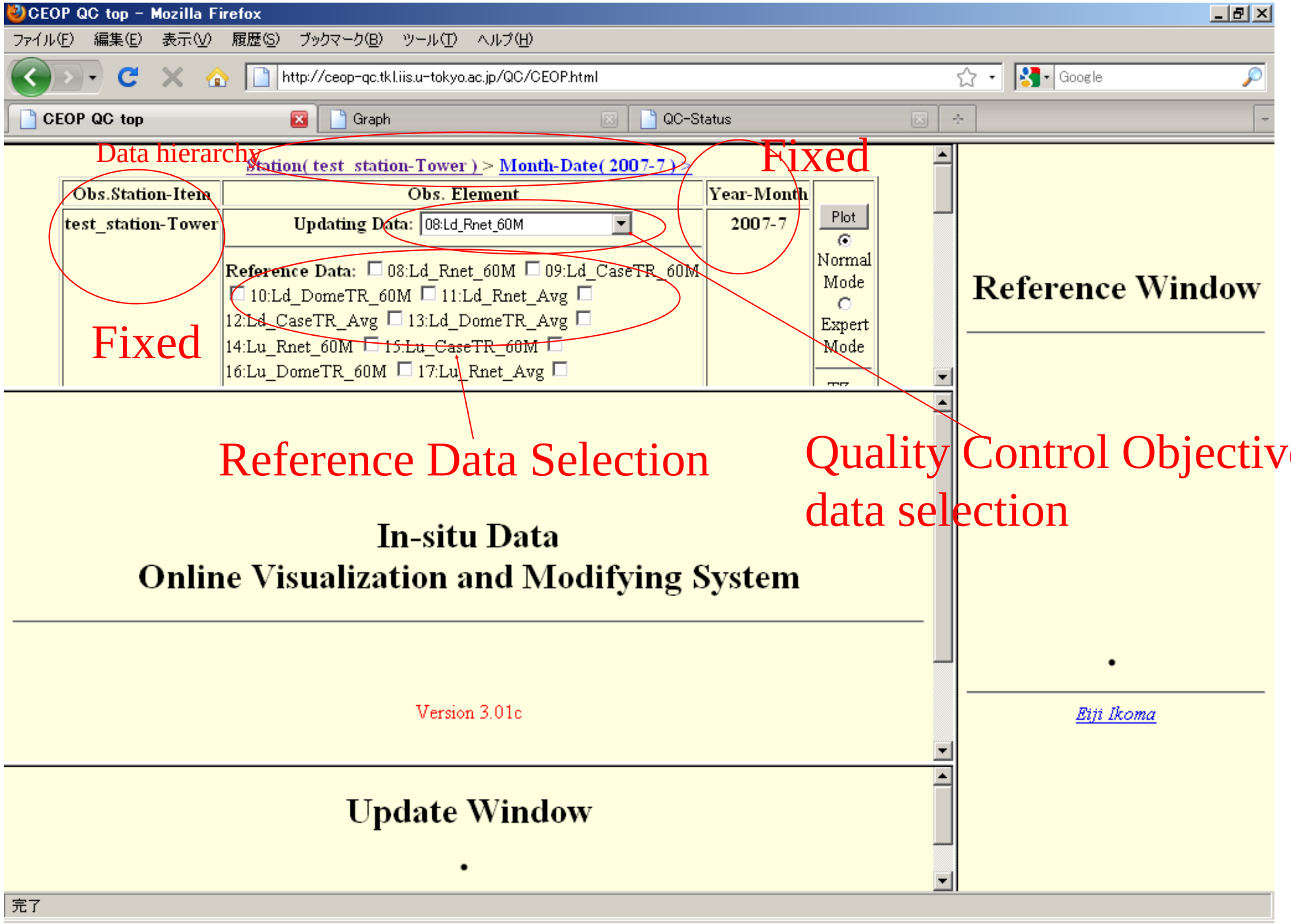
Year-Month
Plot
Normal Mode
Expert Mode
Please Select!
Please Select!
Please Select!
TZ= 00
Please Select!
2007-1
2007-2
2007-3
2007-4
2007-5
2007-6
2007-7
2007-8
2007-9
2007-10
2007-11
2007-12
2008-1
QC-Status (updated every 30 min) - click he
indow
In-situ Data
Online Visualization and Modifying System
Version 3.01c
Update Window
Reference Window
Eiji Ikoma
完了


CEOP QC top – Mozilla Firefox
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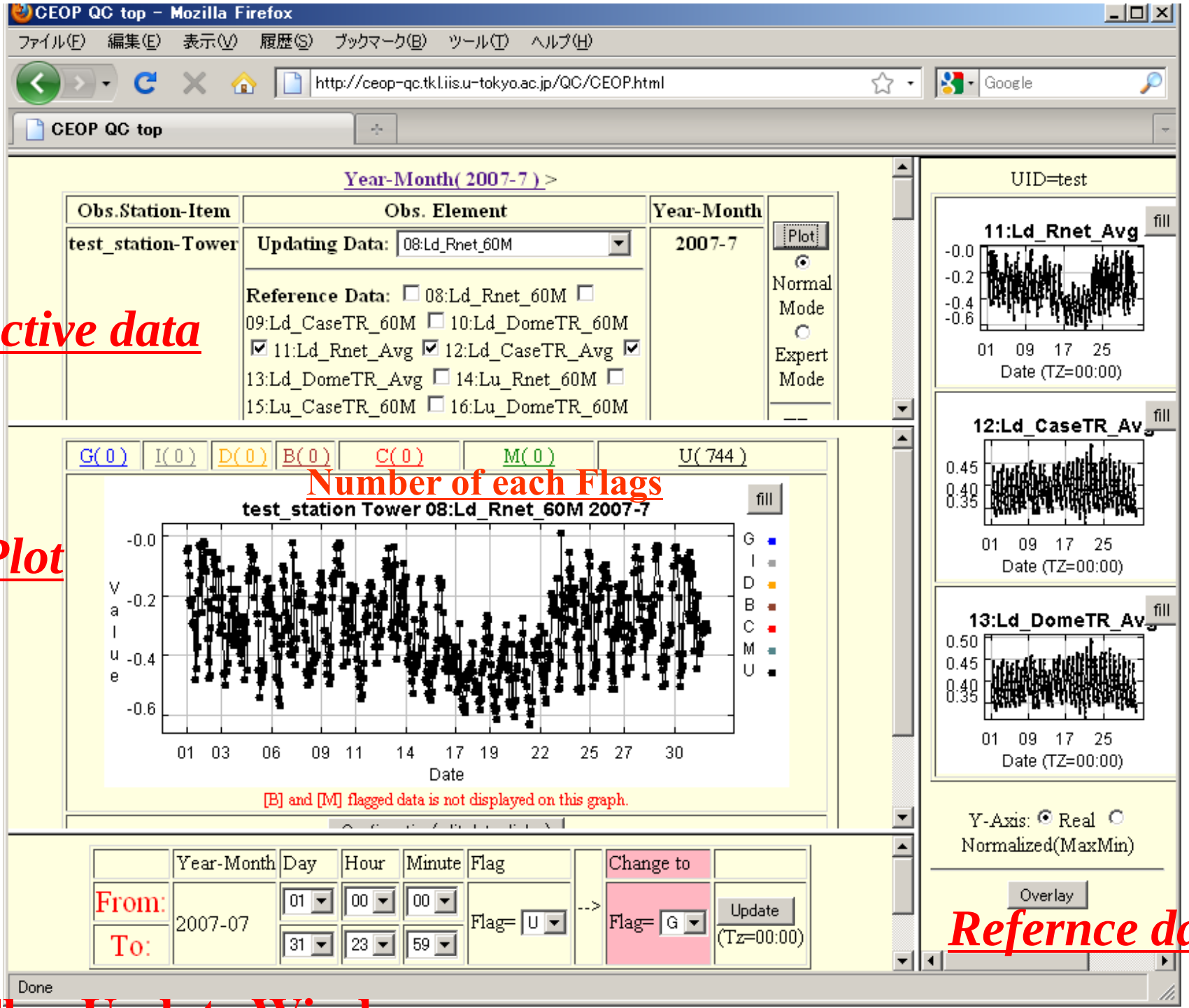
http://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/CEOP.html
Google
CEOP QC top
Graph
QC-Status
Data hierarchy
Station(test_station-Tower) > Month-Date(2007-7) >
Fixed
Obs.Station-Item
Obs. Element
Year-Month
test_station-Tower
Updating Data: 08:Ld_Rnet_60M
2007-7
Plot
Normal Mode
Expert Mode
Reference Data: 08:Ld_Rnet_60M 09:Ld_CaseTR_60M
10:Ld_DomeTR_60M 11:Ld_Rnet_Avg
12:Ld_CaseTR_Avg 13:Ld_DomeTR_Avg
14:Lu_Rnet_60M 15:Lu_CaseTR_60M
16:Lu_DomeTR_60M 17:Lu_Rnet_Avg
Fixed
Reference Data Selection
Quality Control Objective data selection
In-situ Data
Online Visualization and Modifying System
Version 3.01c
Update Window
Reference Window
Eiji Ikoma
完了



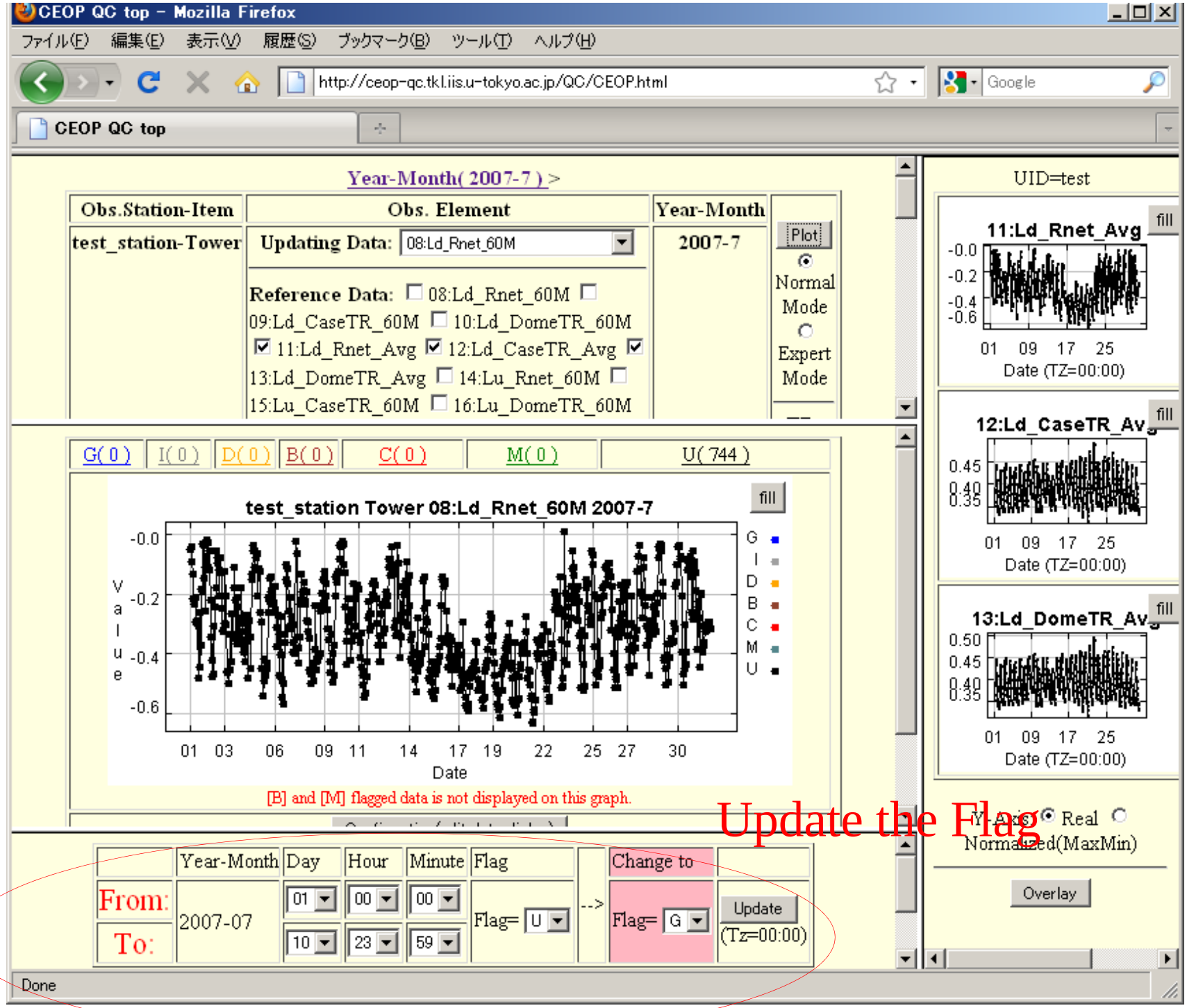
QC Objective data

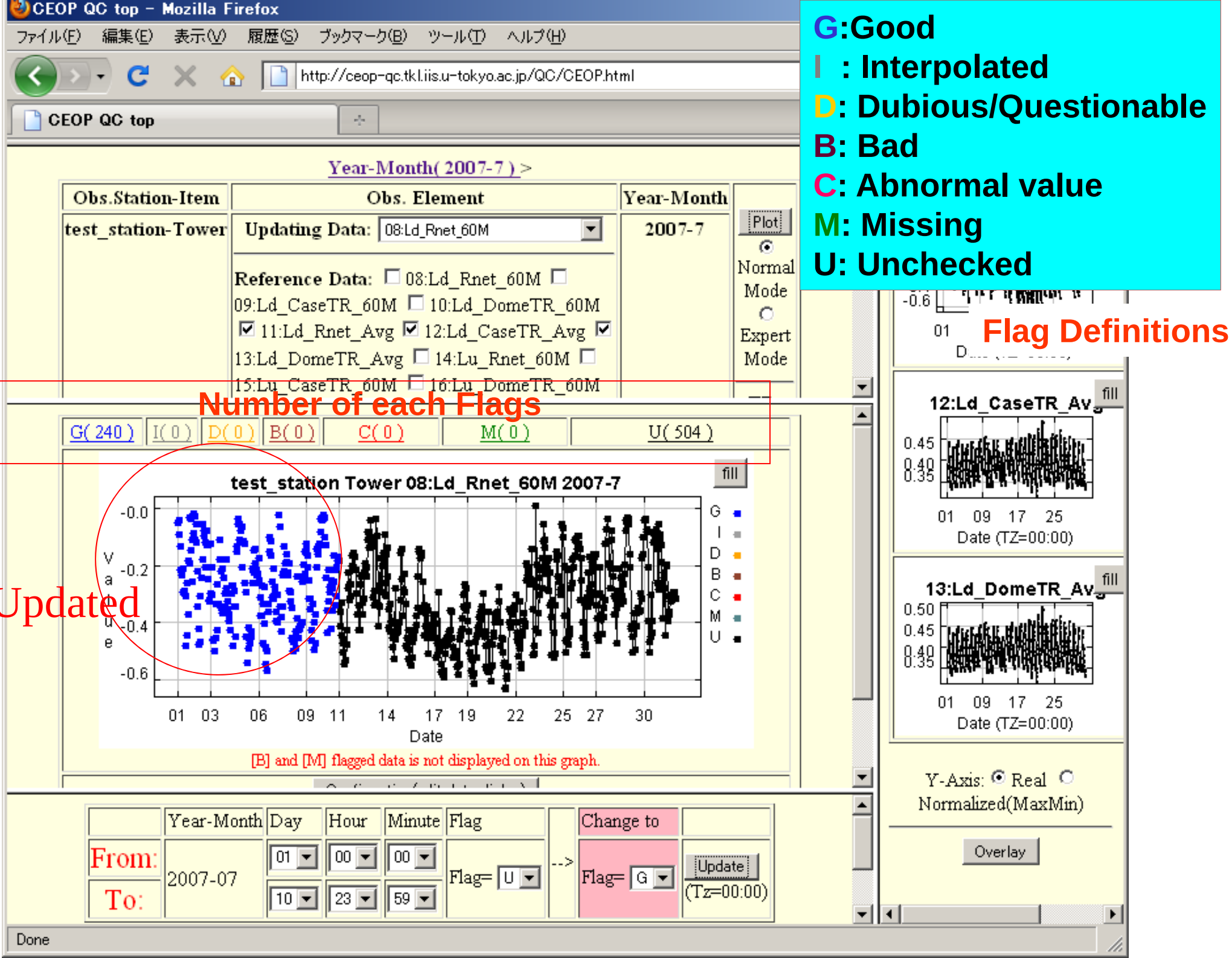
Number of each Flags

Data Plot

Refernce data

Flag Update Window


CEOP QC top - Mozilla Firefox
ファイル(F) 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://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/CEOP.html
CEOP QC top
Year-Month(2007-7) >
Obs.Station-Item
Obs. Element
Year-Month
test_station-Tower
Updating Data: 08:Ld_Rnet_60M
2007-7
Plot
Normal Mode
Expert Mode
Reference Data: 08:Ld_Rnet_60M
09:Ld_CaseTR_60M 10:Ld_DomeTR_60M
11:Ld_Rnet_Avg 12:Ld_CaseTR_Avg
13:Ld_DomeTR_Avg 14:Lu_Rnet_60M
15:Lu_CaseTR_60M 16:Lu_DomeTR_60M
G(0) I(0) D(0) B(0) C(0) M(0) U(744)
test_station Tower 08:Ld_Rnet_60M 2007-7
fill
Value
Date
[B] and [M] flagged data is not displayed on this graph.
UID=test
11:Ld_Rnet_Avg
12:Ld_CaseTR_Avg
13:Ld_DomeTR_Avg
Date (TZ=00:00)
Y-Axis: Real Normalized(MaxMin)
Overlay
Update the Flag
Year-Month Day Hour Minute Flag
Change to
From:
To:
2007-07
Flag= U
Flag= G
Update
(Tz=00:00)
Done

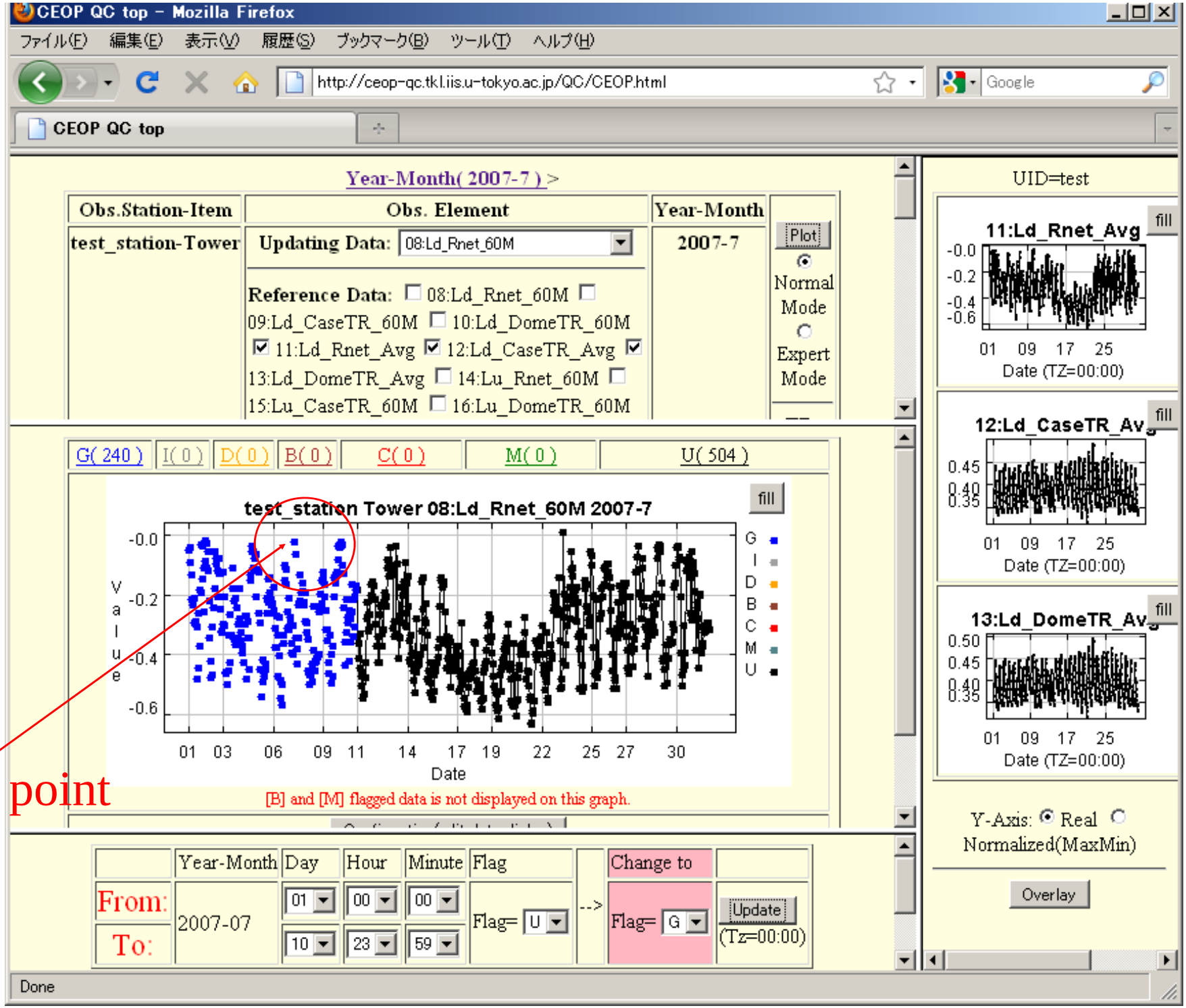


G:Good
I : Interpolated
D: Dubious/Questionable
B: Bad
C: Abnormal value
M: Missing
U: Unchecked

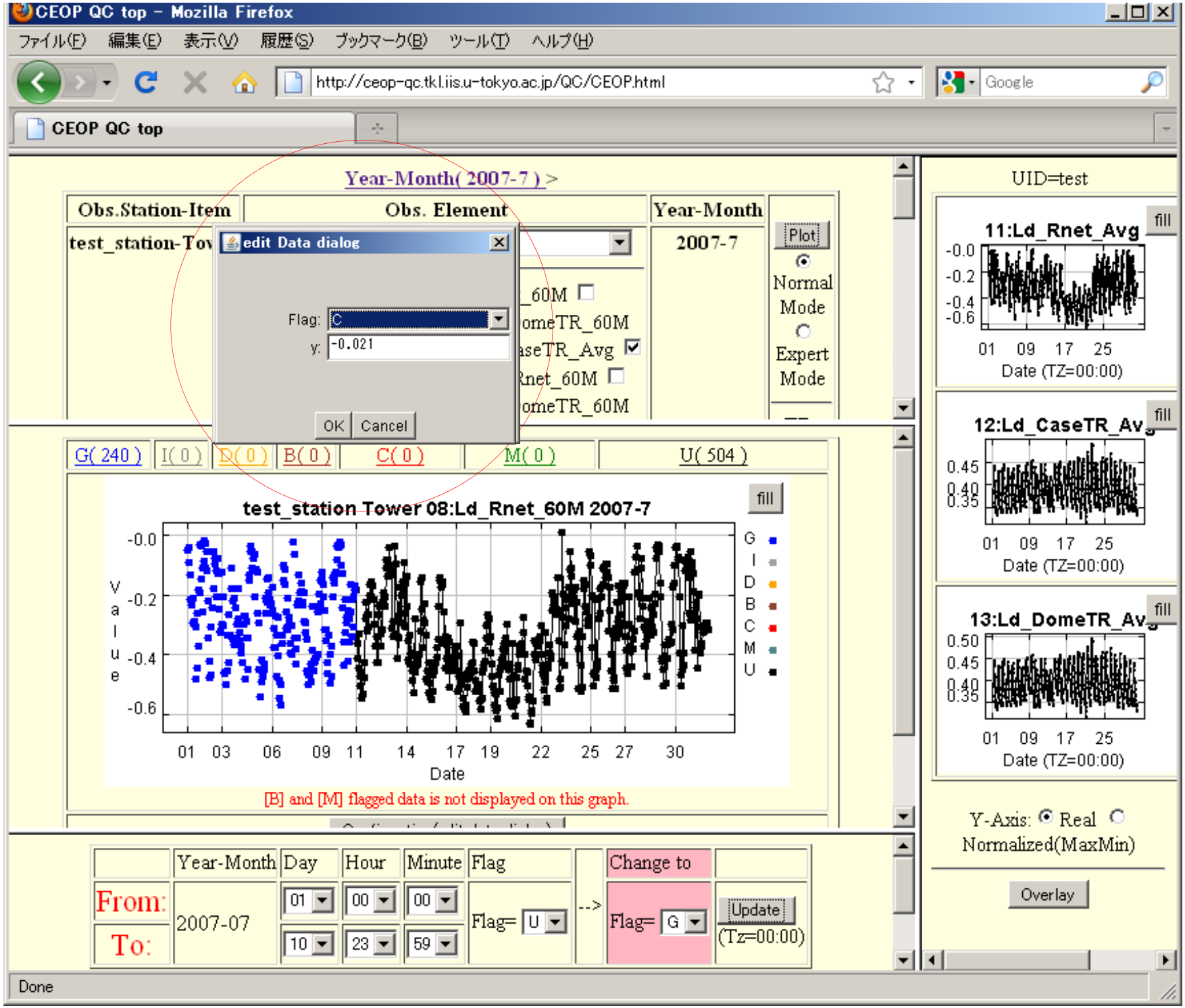
Flag Definitions

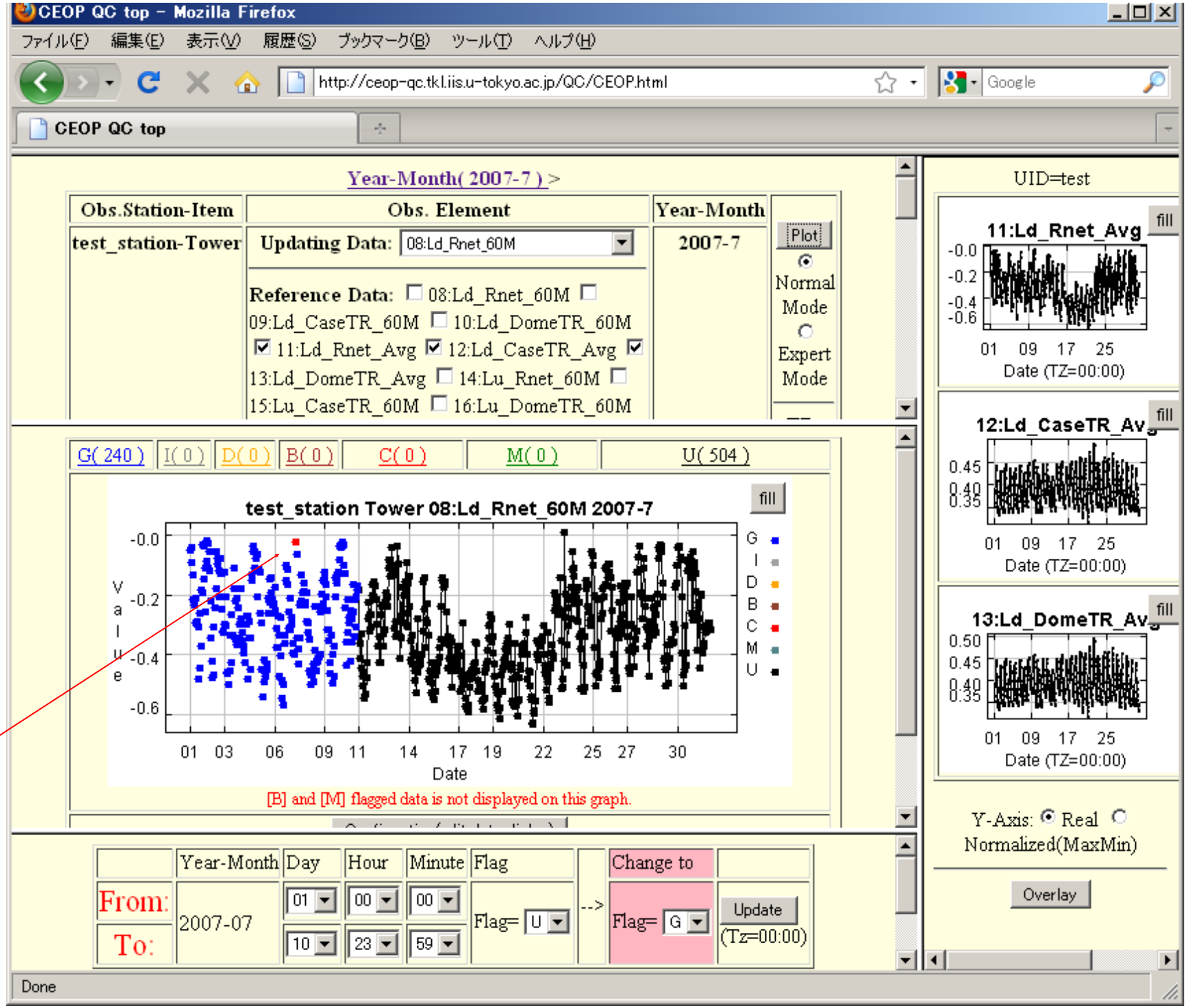
Number of each Flags

Flag Updated data

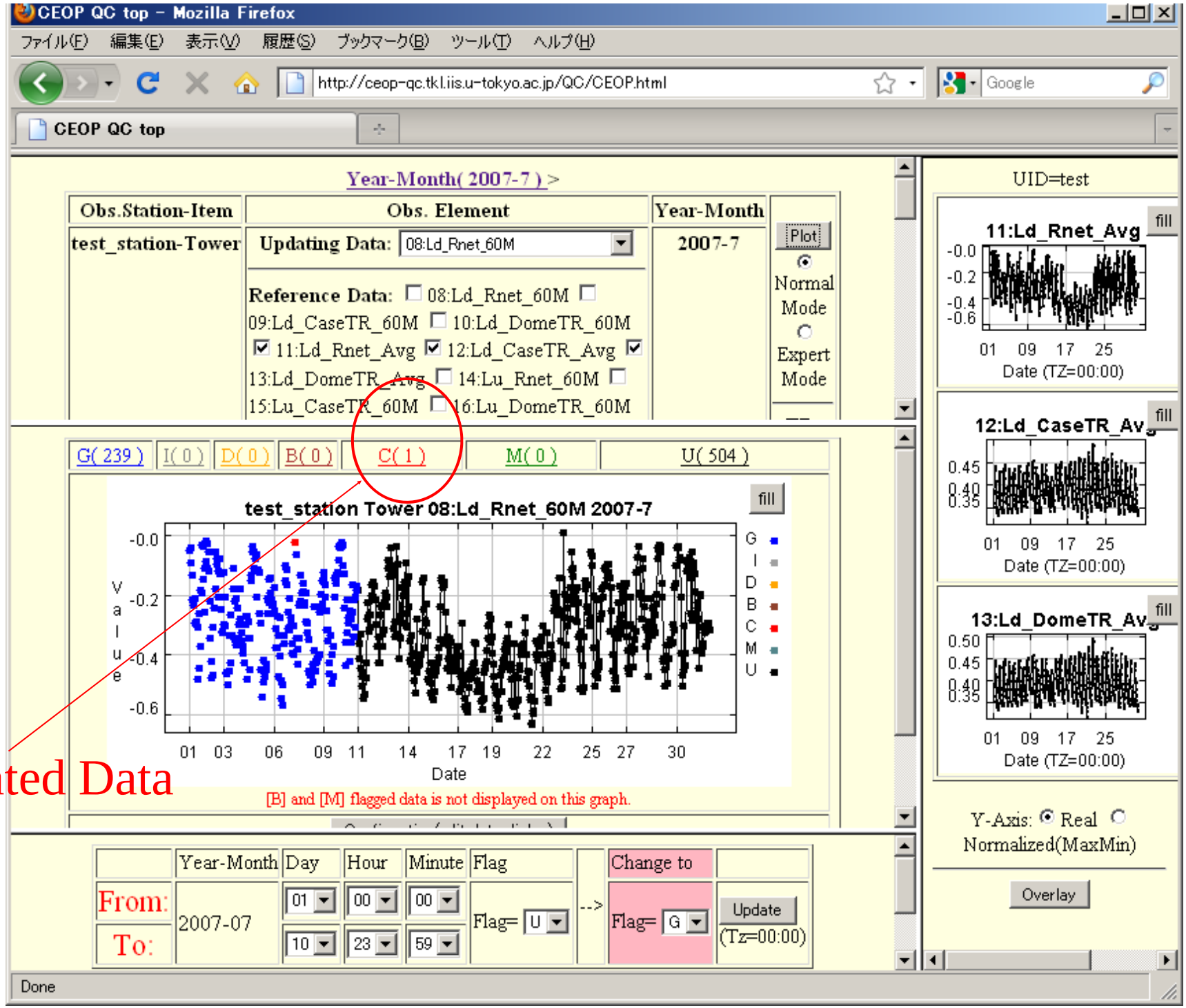


Clic on the point


CEOP QC top - Mozilla Firefox
ファイル(F) 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://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/CEOP.html
CEOP QC top
Year-Month(2007-7) >
Obs.Station-Item
Obs. Element
Year-Month
test_station-Tov
2007-7
Plot
Normal Mode
Expert Mode
edit Data dialog
Flag: C
y: -0.021
OK
Cancel
G(240)
I(0)
D(0)
B(0)
C(0)
M(0)
U(504)
fill
test_station Tower 08:Ld_Rnet_60M 2007-7
Value
Date
[B] and [M] flagged data is not displayed on this graph.
UID=test
11:Ld_Rnet_Avg
12:Ld_CaseTR_Avg
13:Ld_DomeTR_Avg
Date (TZ=00:00)
Y-Axis: Real
Normalized(MaxMin)
Overlay
Year-Month
Day
Hour
Minute
Flag
Change to
From:
To:
2007-07
Update
(Tz=00:00)
Done



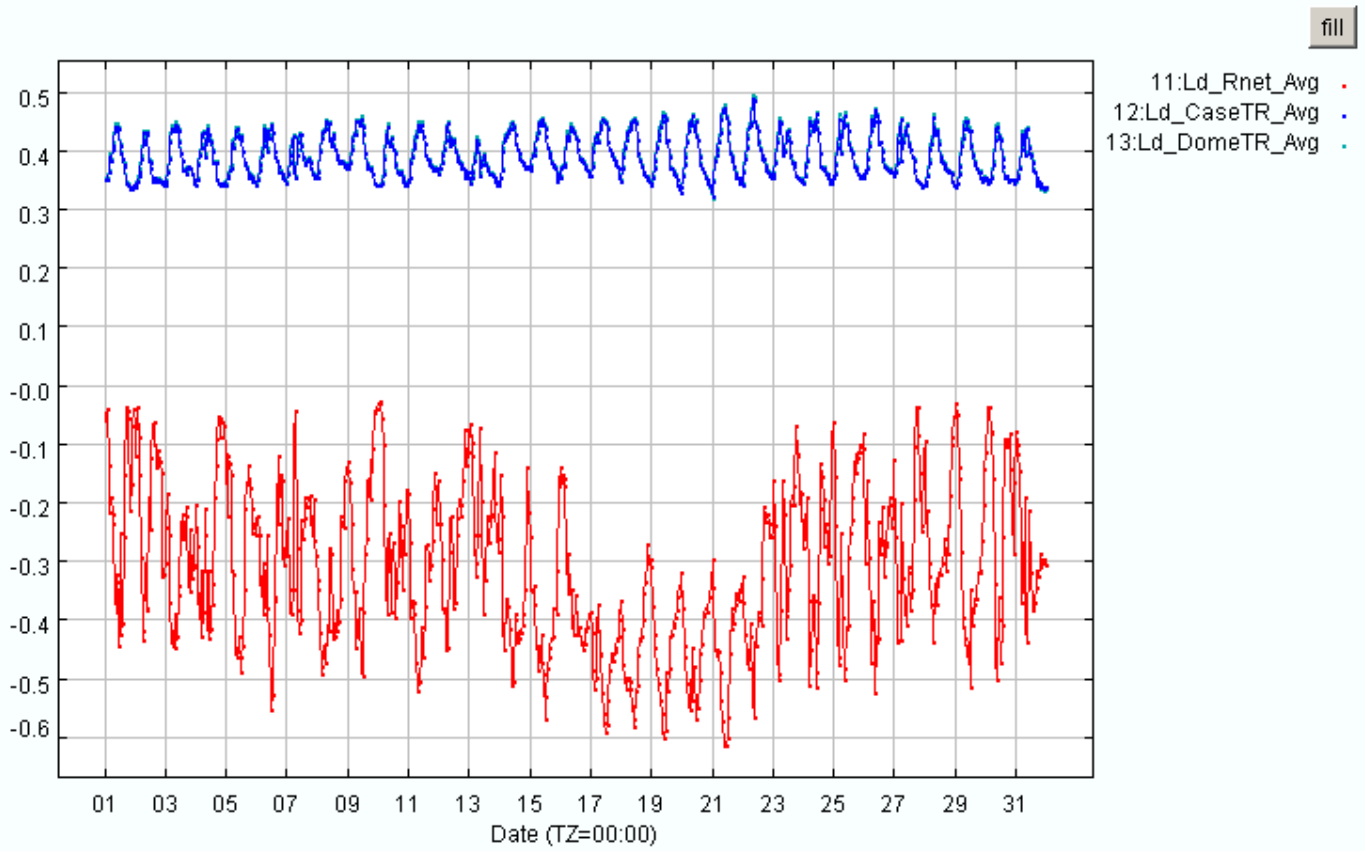
Updating Data


CEOP QC top – Mozilla Firefox
ファイル(F) 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://ceop-qc.tkl.iis.u-tokyo.ac.jp/QC/CEOP.html
CEOP QC top
Year-Month(2007-7) >
Obs.Station-Item
Obs. Element
Year-Month
test_station-Tower
Updating Data: 08:Ld_Rnet_60M
2007-7
Plot
Reference Data: 08:Ld_Rnet_60M
09:Ld_CaseTR_60M 10:Ld_DomeTR_60M
11:Ld_Rnet_Avg 12:Ld_CaseTR_Avg
13:Ld_DomeTR_Avg 14:Lu_Rnet_60M
15:Lu_CaseTR_60M 16:Lu_DomeTR_60M
Normal Mode
Expert Mode
G(239) I(0) D(0) B(0) C(1) M(0) U(504)
test_station Tower 08:Ld_Rnet_60M 2007-7
fill
Value
Date
[B] and [M] flagged data is not displayed on this graph.
Updated Data
UID=test
11:Ld_Rnet_Avg
12:Ld_CaseTR_Avg
13:Ld_DomeTR_Avg
Date (TZ=00:00)
Y-Axis: Real
Normalized(MaxMin)
Overlay
Year-Month Day Hour Minute Flag
Change to
From:
To:
2007-07
Flag= U
Flag= G
Update
(Tz=00:00)
Done

http://ceop-qc.tkl.iis.u-tokyo.ac.jp/DV/cgi-bin/uncgi/overlaygraph303c.sh

CEOP QC top | Graph

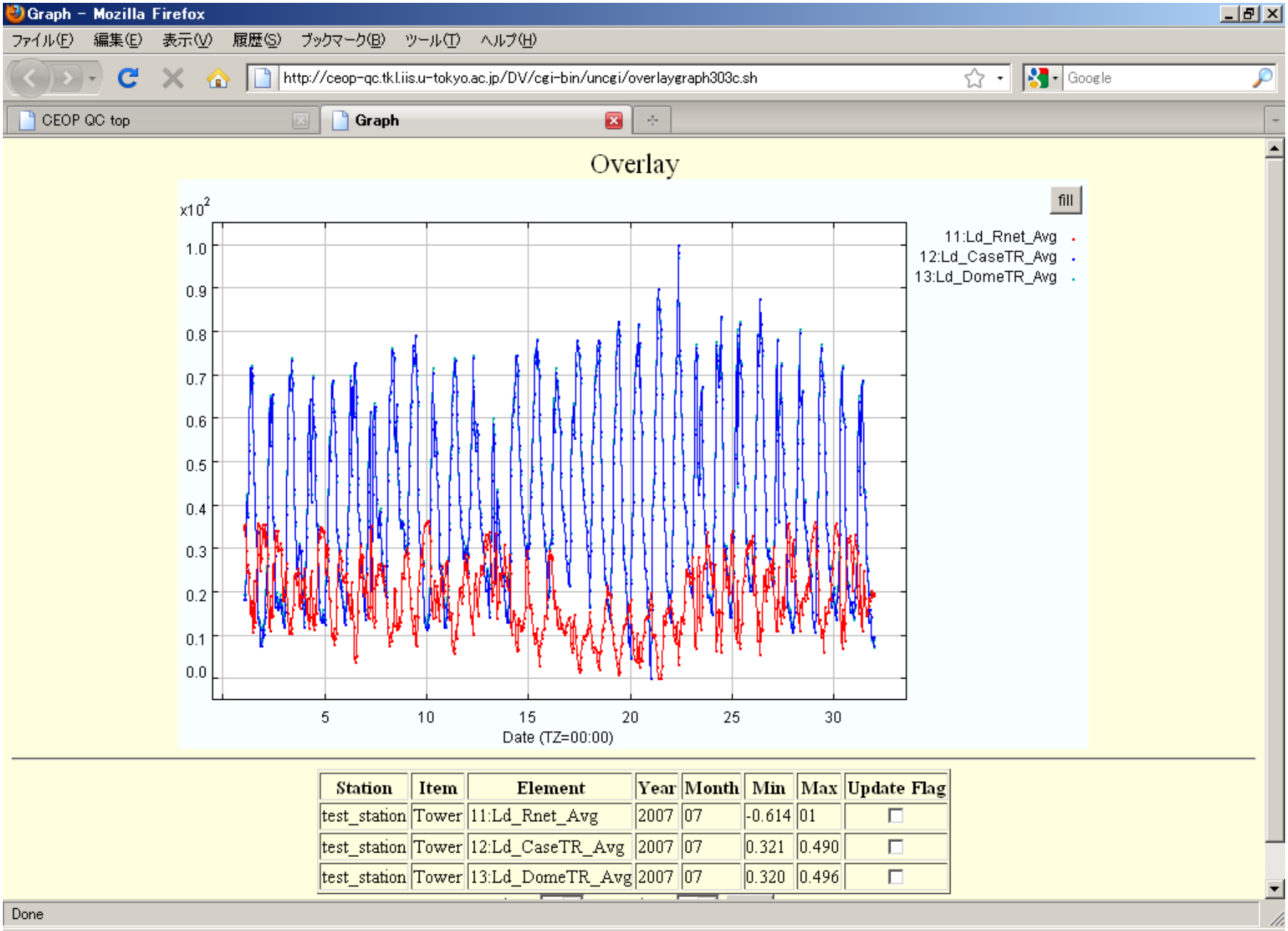
Overlay



Station	Item	Element	Year	Month	Min	Max	Update Flag
test_station	Tower	11:Ld_Rnet_Avg	2007	07			☐
test_station	Tower	12:Ld_CaseTR_Avg	2007	07			☐
test_station	Tower	13:Ld_DomeTR_Avg	2007	07			☐

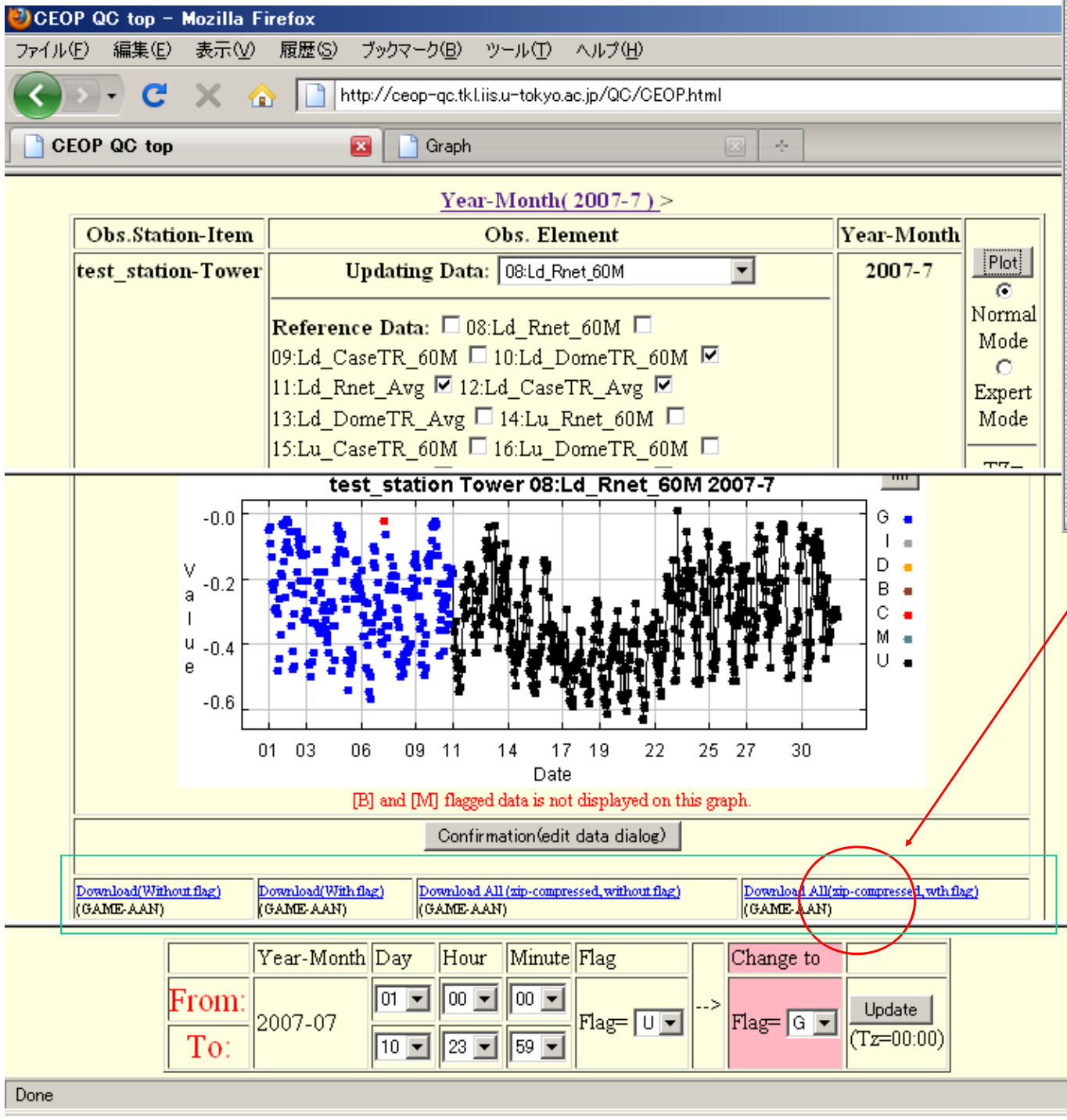
Flag= U ----> Flag= G sub

Update all data on this graph



Station	Item	Element	Year	Month	Min	Max	Update Flag
test_station	Tower	11:Ld_Rnet_Avg	2007	07	-0.614	01	☐
test_station	Tower	12:Ld_CaseTR_Avg	2007	07	0.321	0.490	☐
test_station	Tower	13:Ld_DomeTR_Avg	2007	07	0.320	0.496	☐

Normalized (Y-Axis)



Data download

CEOP QC top - Mozilla Firefox

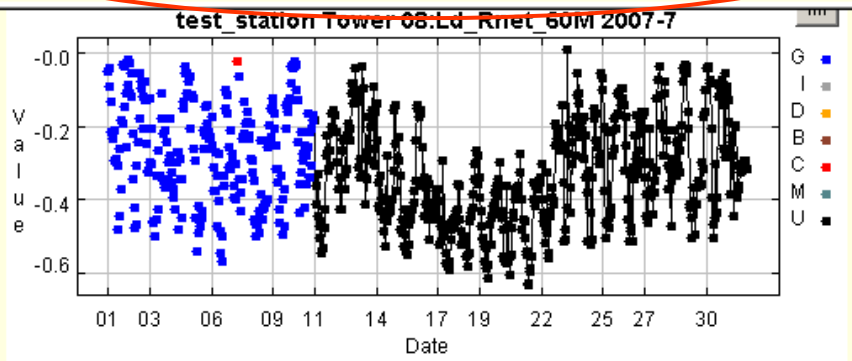
ファイル(F) 編集(E) 表示(V) 履歴(S) ブックマーク(B) ツール(T) ヘルプ(H)

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

CEOP QC top | Graph

NoNumber45:Humidity2_60M NoNumber53:Soil_Water1
NoNumber54:Soil_Water2 NoNumber55:Soil_Water3
NoNumber56:Air_Pressure NoNumber58:Snow_Depth
NoNumber60:PTemp_Avg
NoNumber63:SurfaceT_60M
NoNumber64:SurfaceTR_60M
NoNumber65:SurfaceTR_Avg allcheck allclear

QC-Status (updated every 30 min) - click here to open status window



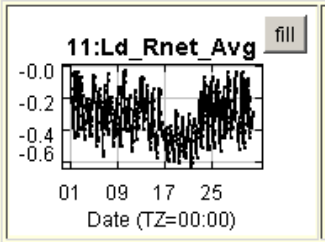
[B] and [M] flagged data is not displayed on this graph.

Confirmation(edit data dialog)

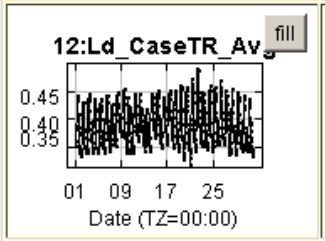
Download(Without flag) (GAME-AAN) | Download(With flag) (GAME-AAN) | Download All (zip-compressed, without flag) (GAME-AAN) | Download All(zip-compressed, with flag) (GAME-AAN)

	Year-Month	Day	Hour	Minute	Flag		Change to	
From:	2007-07	01	00	00	Flag= U	-->	Flag= G	Update (Tz=00:00)
To:		10	23	59				

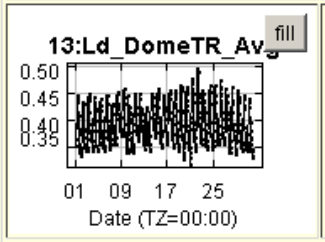
UID=test



Overlay



Overlay



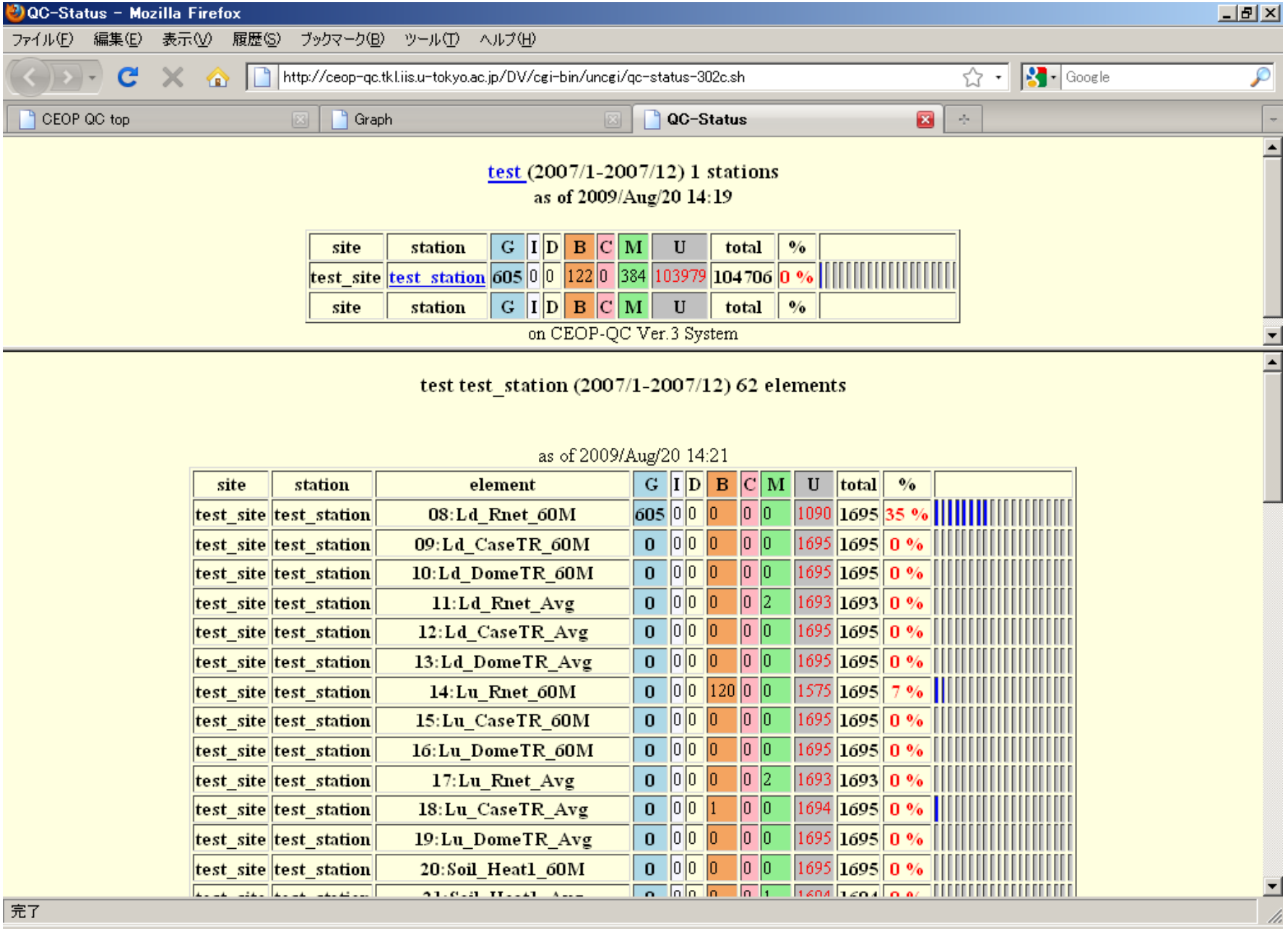
Overlay

Y-Axis: Real Normalized(MaxMin)

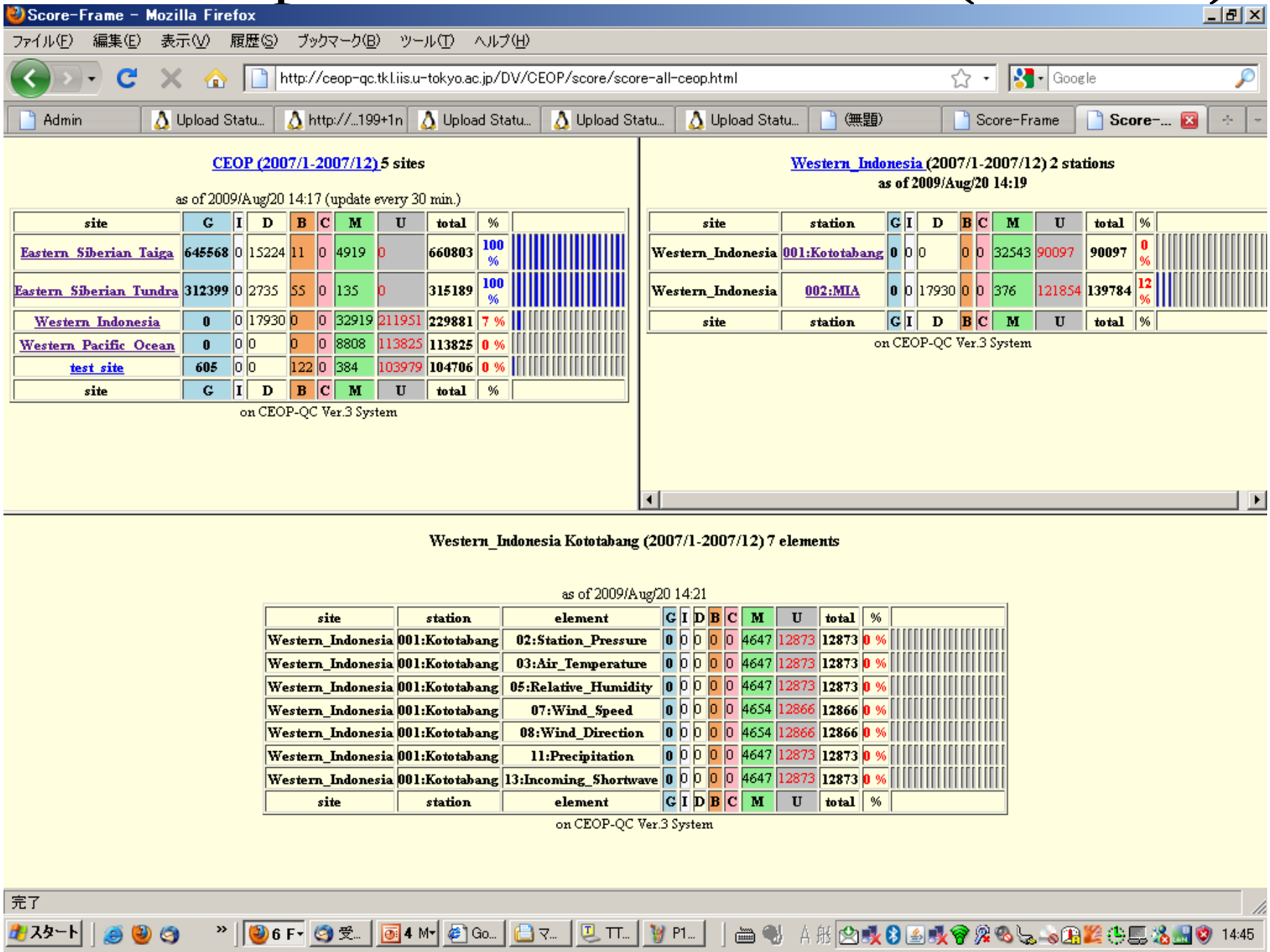
Overlay

Done

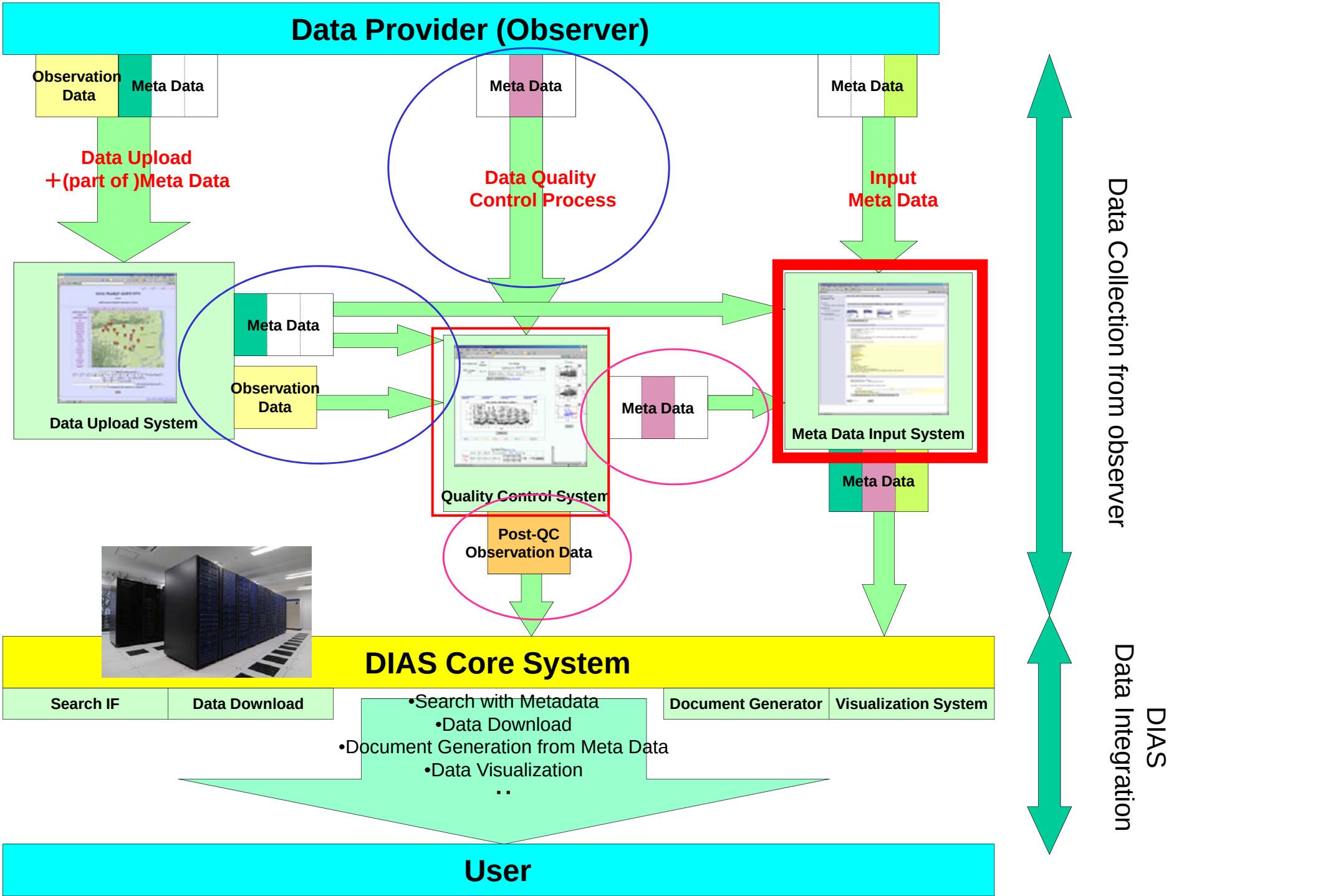
QC-Status of each site



Status Report for Administrator(all sites)



CEOP Observation Data Management System



Observation Data Metadata Registration System

Hiroko Kinutani, Eiji Ikoma,
Katsunori Tamagawa

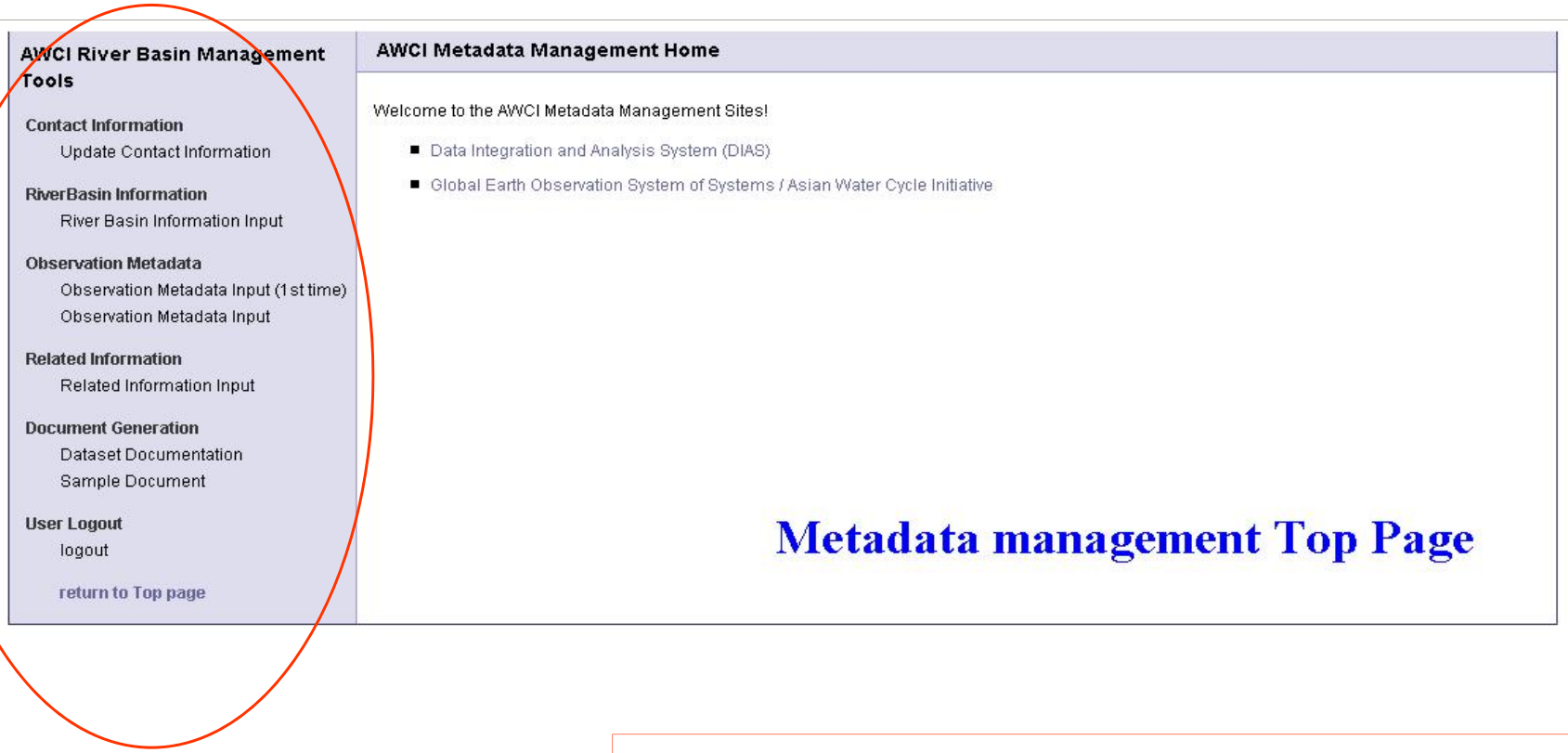
Tetsu Ohta, Toshio Koike

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.

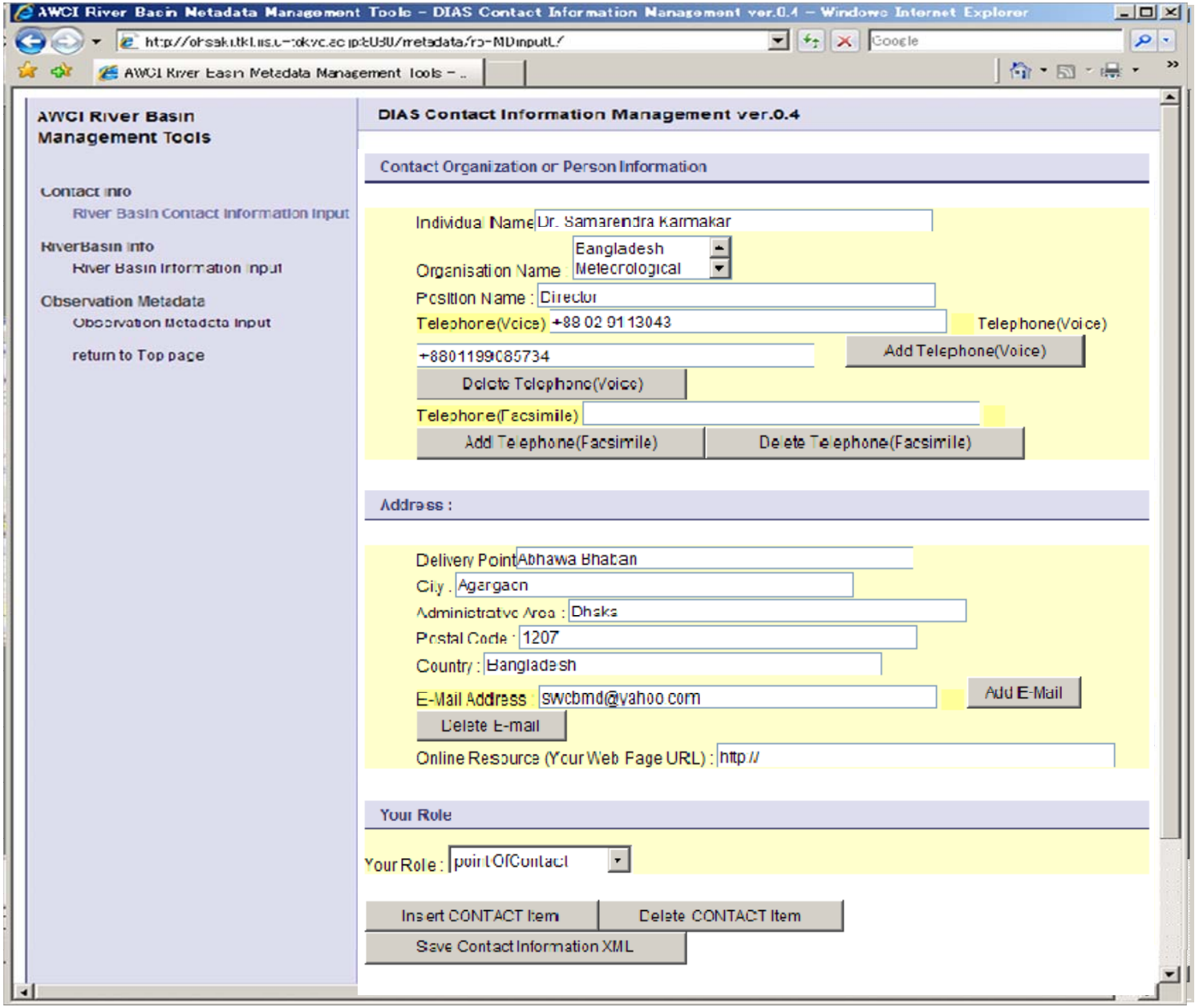
Top Page



Input Menu

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

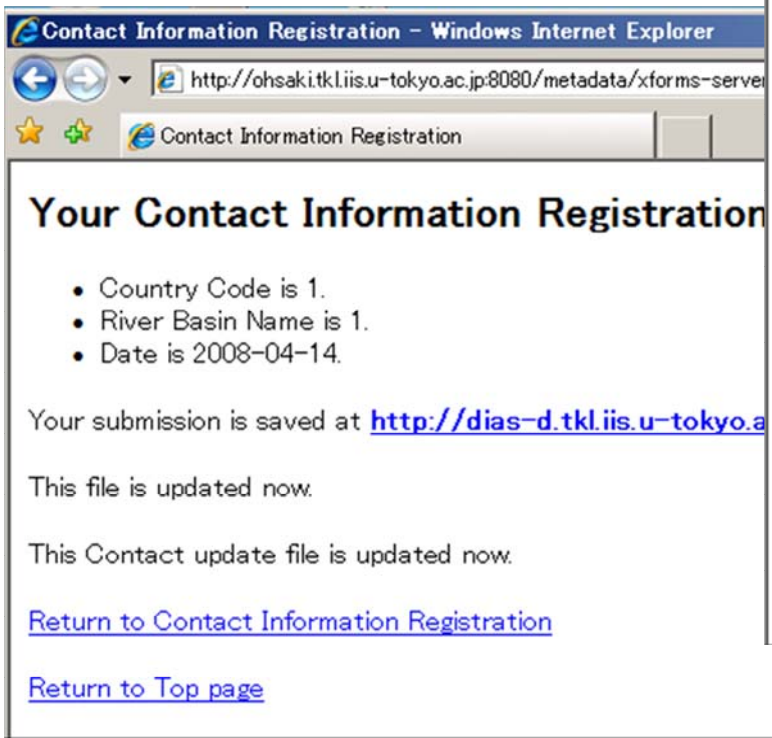
Contact Info. Input

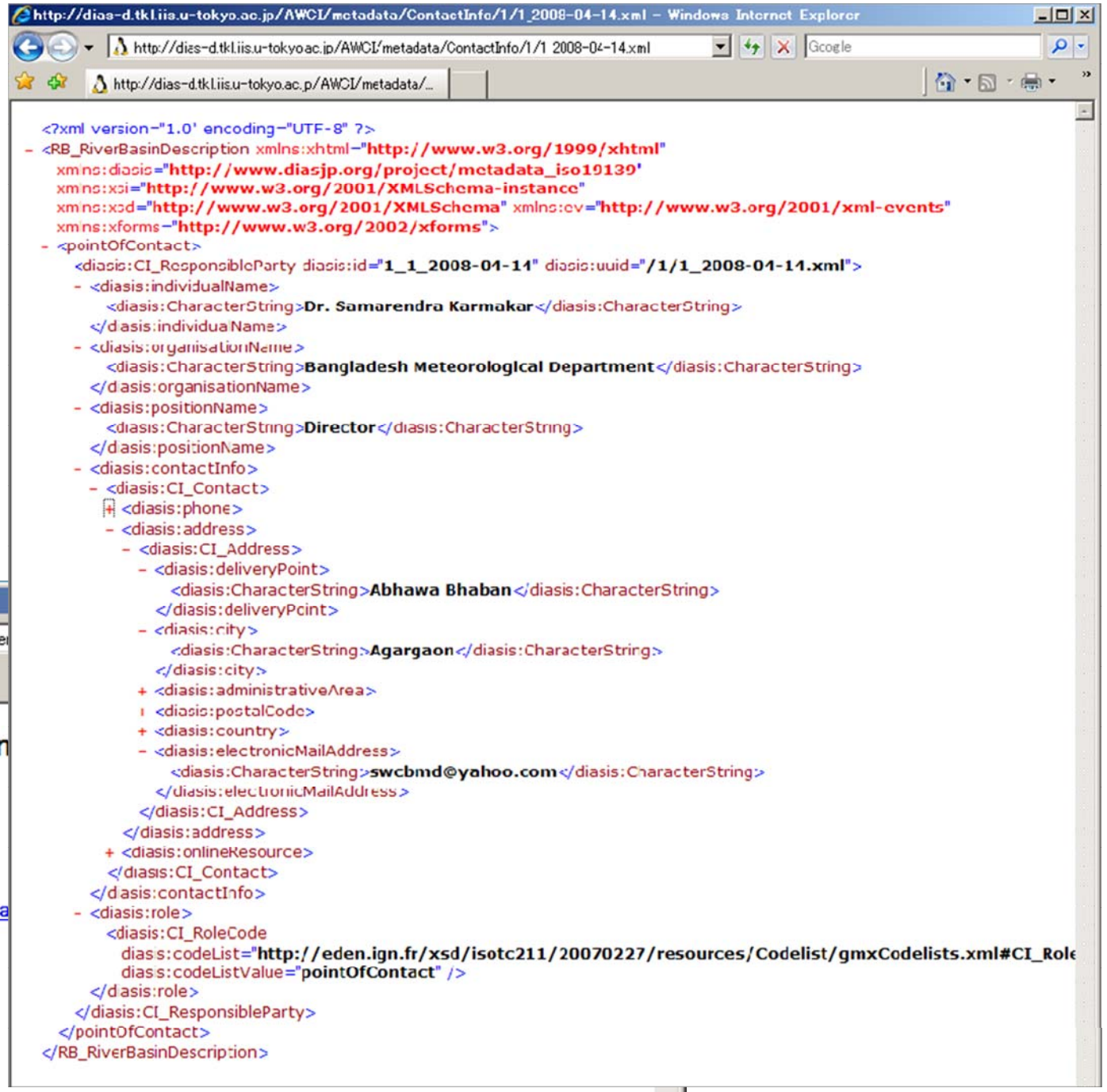


- Contact Info. is often required to input.
- Name, Address, etc.
- Once input, Use many times

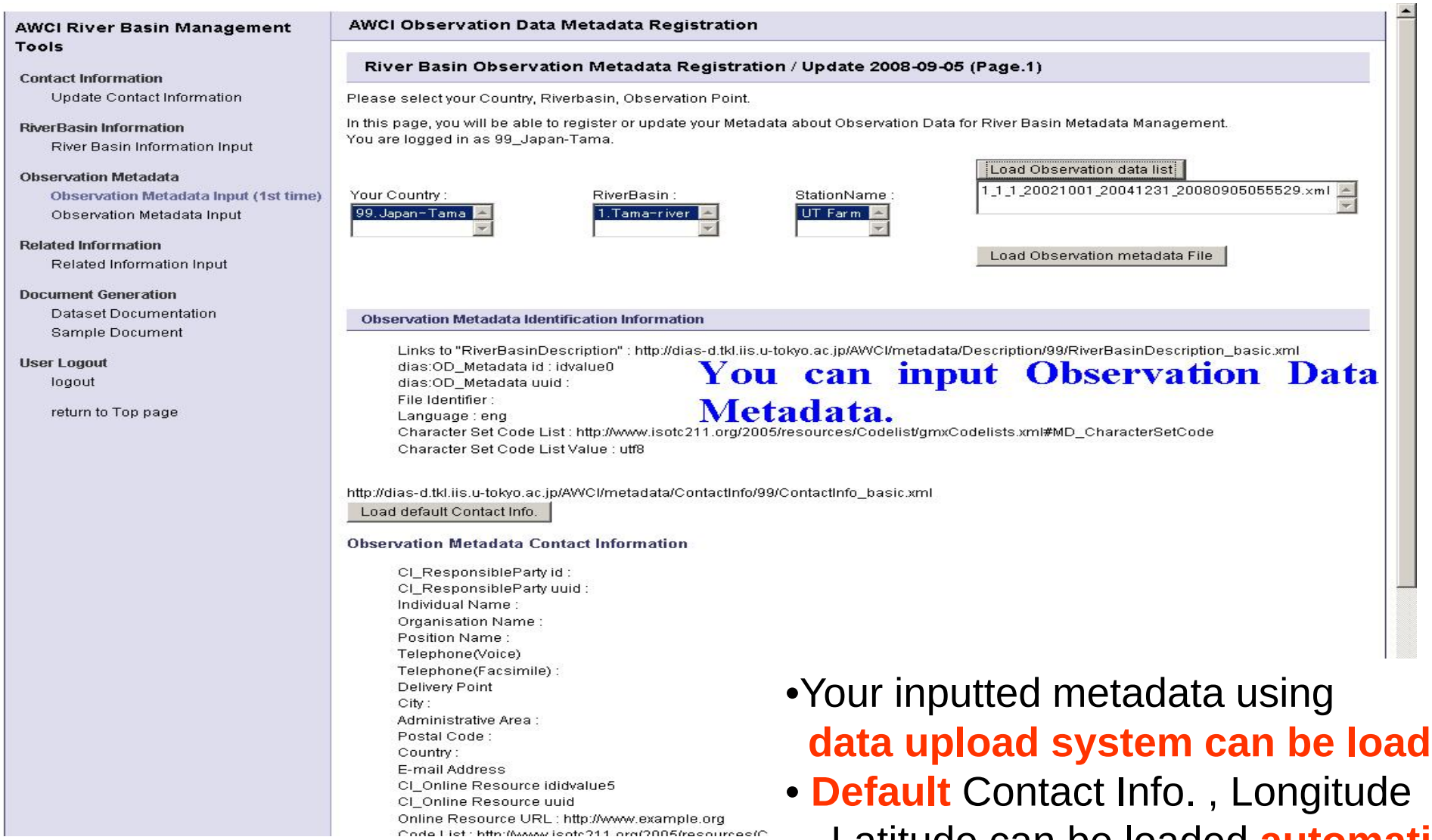
Contact Info. submit

- Can view metadata as XML





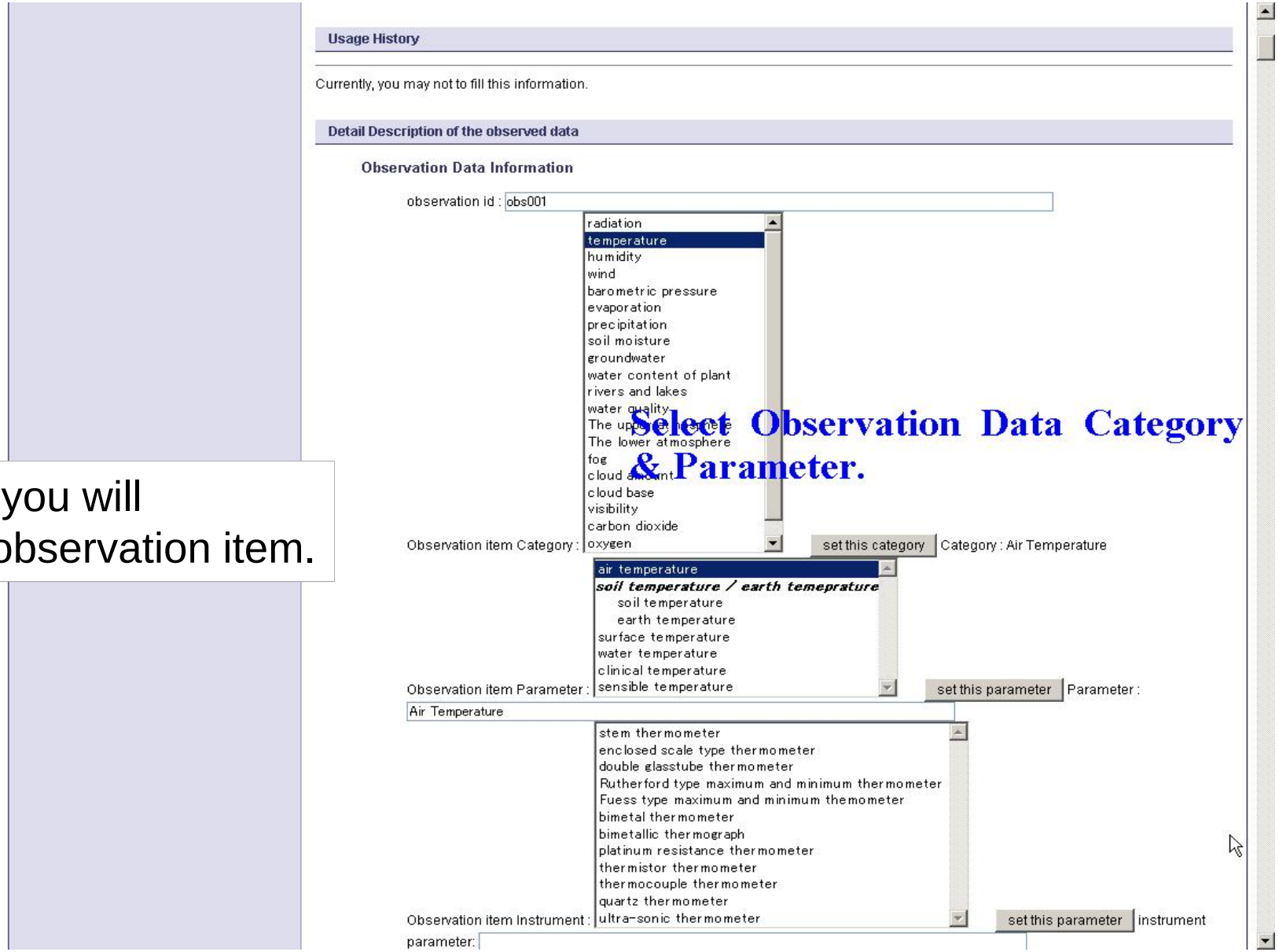
Observation metadata input(automatically)

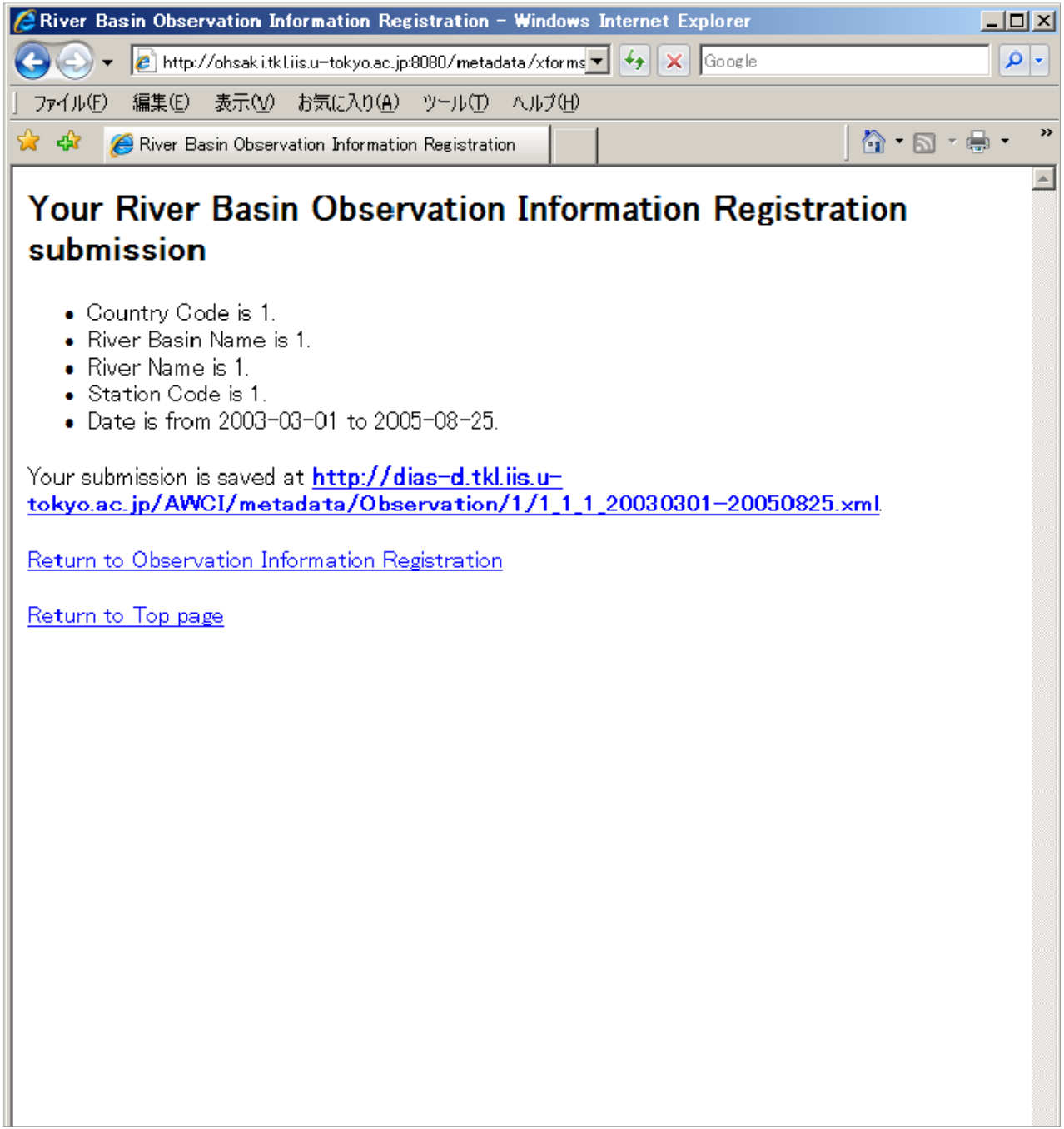


- Your inputted metadata using **data upload system can be loaded** here
- **Default** Contact Info. , Longitude , Latitude can be loaded **automatically**.

Observation metadata input(manually)

In this area, you will input about observation item.

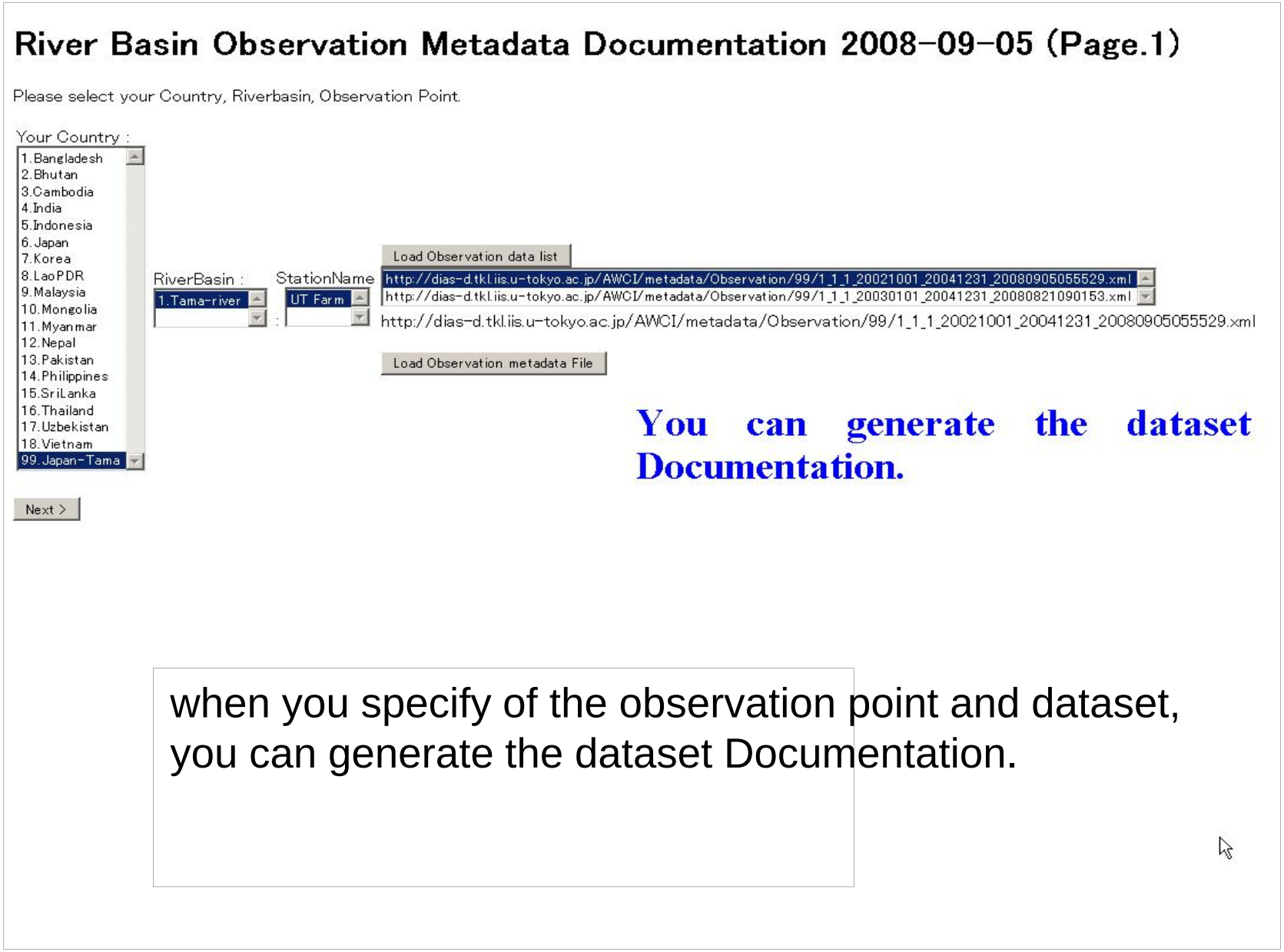




Metadata Access

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

Document Generation



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

1.3 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 INSTRUMENTA

2.1 Platform

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

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

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". (Actually, 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 2004/04/15 04:00 - 2004/04/16 06:00 (3) 2004/08/14 05:00 - 2004/08/14 23:00 (18) Net Radiation 2004/04/12 05:00 - 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)

Status of CEOP-AP Data Upload, QC

CEOP_AP Data Management Status (as of 2009/08/21)

	Reference Site Name	Basic Info.	Data Uploading (Data Period)	Compile DB	Quality Control	Convert CEOP Format	Submit to NCAR	Remark
01	Eastern Siberian Tundra	O	2007/01/01 - 2007/12/31	O	O			
02	Eastern Siberian Taiga	O	2007/01/01 - 2007/12/31	O	O			
03	Mongolia	O						
04	Tongyu	O						
05	Tibet	O	2007/06/15 - 2008/11/25	O	△			
06	Himalayas	O	Managed by own system					
07	Northern South China Sea - Southern Japan	O	2005/01/01 - 2008/12/31	O				
08	Chao-Phraya River	O						
09	North-East Thailand	O						
10	Western Pacific Ocean	O	2007/01/01 - 2007/12/31	O				
11	Mongolia Arvayheer	O						
12	Mongolia Nalaikh	O						
13	Northern Mongolia	O						
14	Lower Yellow River	O						
15	Central Vietnam	O						
16	Northeast Bangladesh	O						
17	Pakistan Karakorum	O						
18	Tsukuba	O	Managed by own system					
19	Lanzhou	O						
20	Heihe River Basin	O	2007/01/01 - 2008/12/31					
21	Western Indonesia	O	2007/01/01 - 2007/12/31	O				
22	Central Indonesia	O						
23	Eastern Indonesia	O						
24	Northern Indonesia	O						
25	Southern Indonesia	O						

O: Finished , △: Partially finished

CEOP_AP Data management Status for Each stations (1/2)

	Reference Site Name	Station #	Station Name	Basic Info.	Data Uploading	Compile DB	Quality Control	Convert CEOP Format
01	Eastern Siberian Tundra	01-01	Tiksi	O	2007/01/01 - 2007/12/31	O	O	
02	Eastern Siberian Taiga	02-01	Yakutsk	O	2007/01/01 - 2007/12/31	O	O	
03	Mongolia	03-01	Mandalgobi	O				
		03-02	Ulannbaator	O				
04	Tongyu	04-01	Cropland	O				
		04-02	Grassland	O				
05	Tibet	05-01	Naqu	O	2008/01/01 - 2008/05/24	O	-	
		05-02	Gaize	O	2007/06/15 - 2008/11/25	O	-	
		05-03	Dali	O	2008/02/01 - 2008/12/01	O	-	
		05-04	Linzhi	O	2008/05/01 - 2008/11/05	O	-	
		05-05	Litang	O				
		05-06	Wenjiang	O	2008/01/01 - 2008/11/30	O	-	
06	Himalayas	06-01	Pyramid	O				
		06-02	Pherich	O				
		06-03	Namche	O				
		06-04	Lukla	O				
07	Northern South China Sea - Southern Japan	07-01	Chutzehu	O	2005/01/01 - 2008/12/31	O		
		07-02	Hsinchu	O	2005/01/01 - 2008/12/31	O		
		07-03	Ilan	O	2005/01/01 - 2008/12/31	O		
		07-04	Taichung	O	2005/01/01 - 2008/12/31	O		
		07-05	Hualien	O	2005/01/01 - 2008/12/31	O		
		07-06	Jihyuehtan	O	2005/01/01 - 2008/12/31	O		
		07-07	Alishan	O	2005/01/01 - 2008/12/31	O		
		07-08	Chiayi	O	2005/01/01 - 2008/12/31	O		
		07-09	Chengkung	O	2005/01/01 - 2008/12/31	O		
		07-10	Taitung	O	2005/01/01 - 2008/12/31	O		
		07-11	Kaohsiung	O	2005/01/01 - 2008/12/31	O		
		07-12	Hengchun	O	2005/01/01 - 2008/12/31	O		
		07-13	Pengchiayu	O	2005/01/01 - 2008/12/31	O		
		07-14	Anpu	O	2005/01/01 - 2008/12/31	O		
		07-15	Tanshui	O	2005/01/01 - 2008/12/31	O		
		07-16	Keelung	O	2005/01/01 - 2008/12/31	O		
		07-17	Taipei	O	2005/01/01 - 2008/12/31	O		
		07-18	Suao	O	2005/01/01 - 2008/12/31	O		
		07-19	Wuchi	O	2005/01/01 - 2008/12/31	O		
		07-20	Penghu	O	2005/01/01 - 2008/12/31	O		
		07-21	Yushan	O	2005/01/01 - 2008/12/31	O		
		07-22	Tungchitao	O	2005/01/01 - 2008/12/31	O		
		07-23	Tainan	O	2005/01/01 - 2008/12/31	O		
		07-24	Tawu	O	2005/01/01 - 2008/12/31	O		
		07-25	Lanyu	O	2005/01/01 - 2008/12/31	O		

CEOP_AP Data management Status for Each stations (2/2)

	Reference Site Name	Station #	Station Name	Basic Info.	Data Uploading	Compile DB	Quality Control	Convert CEOP Format
08	Chao-Phraya River	08-01	Lampang	O				
09	North-East Thailand	09-01	Nakhonrachasima	O				
10	Western Pacific Ocean	10-01	Aimeliik	O				
		10-02	Peleliu	O	2007/01/01 - 2007/12/31	O		
11	Mongolia Arvayheer	11-01	Arvayheer	O				
12	Mongolia Nalaikh	12-01	Nalaikh	O				
13	Northern Mongolia	13-01	Kherlen-Bayan-Ula	O				
		13-02	Forest site	O				
14	Lower Yellow River	14-01	Gaoying	O				
15	Central Vietnam	15-01	Da Nang	O				
16	Northeast Bangladesh	16-01	Sylhet	O				
17	Pakistan Karakorum	17-01	Urdukas	O				
		17-02	Askole	O				
18	Tsukuba	18-01	UT-Mt. Tsukuba	O				
		18-02	NIED	O				
		18-03	UT-TERC	O				
		18-04	JMA-AO	O				
		18-05	MRI	O				
		18-06	NIES	O				
		18-07	NIAES-MASE	O				
19	Lanzhou	19-01	SACOL	O				
20	Heihe River Basin	20-01	Linze	O	2007/01/01 - 2007/12/31			
		20-02	Dayekou	O	2007/01/01 - 2008/07/13			
		20-03	Yeniugou	O	2007/11/05 - 2008/07/16			
		20-04	Dingxin	O				
		20-05	Erjin	O				
		20-06	Arou	O	2007/01/01 - 2008/12/31			
		20-07	Binggou	O	2007/09/25 - 2008/07/12			
		20-08	Yingke	O	2007/01/01 - 2008/12/31			
21	Western Indonesia	21-01	Kototabang	O	2007/01/01 - 2007/12/31	O		
		21-02	Minangkabau Interr	O	2007/01/01 - 2007/12/31	O		
22	Central Indonesia	22-01	Pontianak	O				
23	Eastern Indonesia	23-01	Biak	O				
24	Northern Indonesia	24-01	Manado	O				
25	Southern Indonesia	25-01	Serpong	O				

Summary

- Introduction of Data Upload, Quality Control, and MetaData Registration System – 3 System for CEOP Phase2 are running
- All systems are supporting observers to regist data and information with easy/user-friendly interface..
- Users can check upload/QC status on WEB easily, Administrator can also check all status
- Thank you for your collaboration.