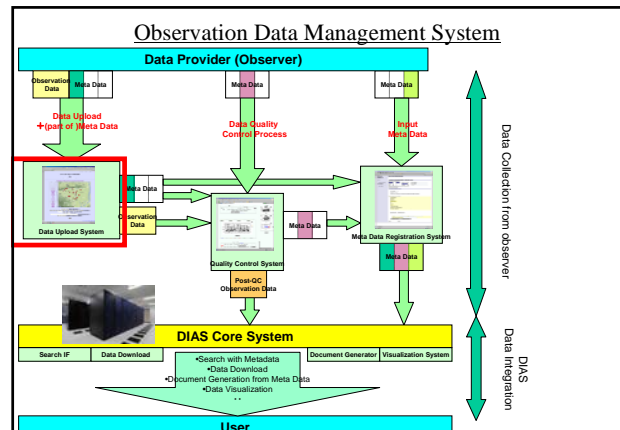


AMY Data Upload and Quality Control System

Eiji Ikoma*, Katsunori Tamagawa*
Hiroko Kinutani*, Tetsu Ohta***
and
Masaru Kitsuregawa**, Toshio Koike**,**

The University of Tokyo

*Earth Observation Data Integration and Fusion Research Initiative, UT
**Institute of Industrial Science, UT
***Department of Civil Engineering, UT



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 AMY data, which is in cooperation with Data Quality Control System, Meta-Data Registration System, and Data Archiving System.

Data Upload System

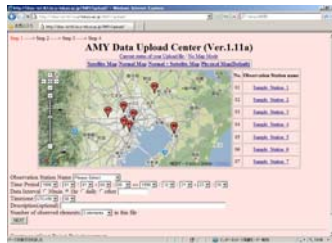
- Observers can upload observation data and input some Metadata on Web Interface consisted of 4 steps.
- On each step, observers need to input some information about the data.
- Easy Operation and Quick Response.
- This system has some function which **reduce** the complicatedness of upload process

Login Page



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

STEP1



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

STEP2



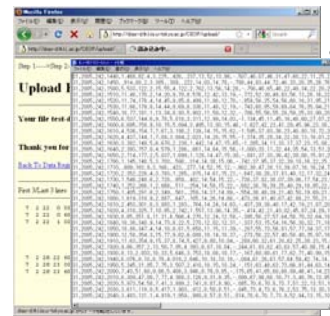
- Observation Data
 - Choose from pulldown menu
 - Sensor height
 - Orientation(op.)
 - Unit
 - Missing value
 - Description(op.)
1. Copy from No.1 to all
 2. Unit = Input Automatically when you choose observation data
 3. Copy from former inputted data
 4. Modify the num of observation data
 5. Upload from prepared csv file

STEP3



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

STEP 4

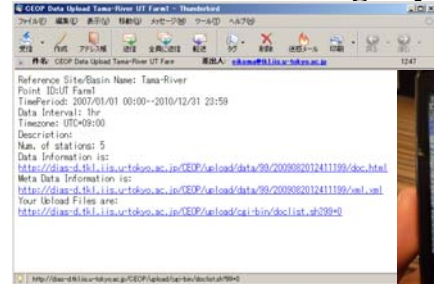


- Confirmation of
 - local path of uploaded file
 - contents of the file (first/last 3lines and all lines when you require)
 - All metadata inputted at STEP1,2,3

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

Confirmation Message by e-mail



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

You can check your uploaded file here.

- Data Download
- Check metadata
- Delete uploaded data

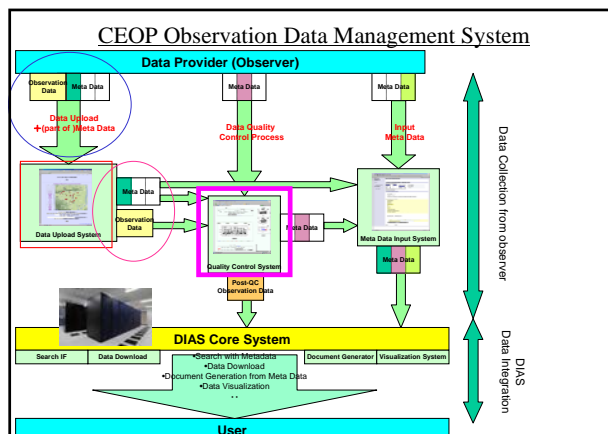
Upload Status of Data

(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	SSD	Station	-2006	2007	2008	2009
01	Eastern Siberian Tundra	01	Tibai	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 Tundra	01	Yakutsk	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	Mandulgaich	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	Tanzania	01	Cropland	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	Nians	01 02 03 04 05 06 07 08 09 10 11 12 01 02 03 04 05 06 07 08 09 10 11 12			



AMY Observation Data Quality Control (QC) System

Eiji Ikoma, Katsunori Tamagawa,
Tetsu Ohta, Kenji Taniguchi,
Toshio Koike, Masaru Kitsuregawa

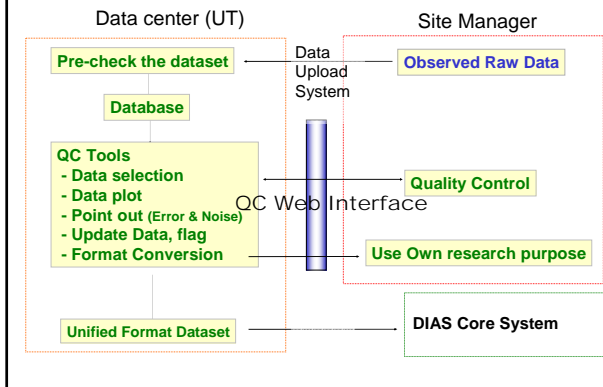
Our QC System

- 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.)
 - Ver3.03m(for AMY) are now running
- We are operating QC-V3 system for AMY Data.

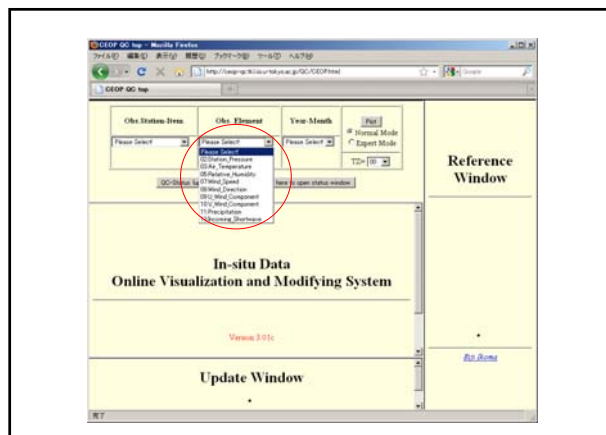
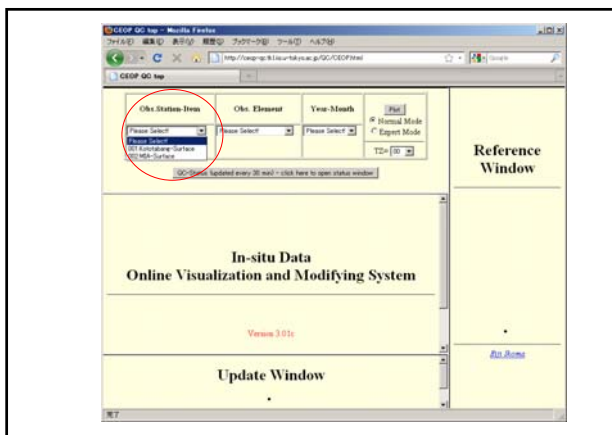
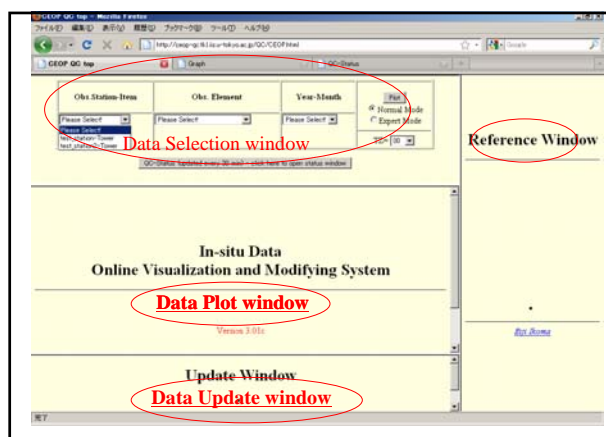
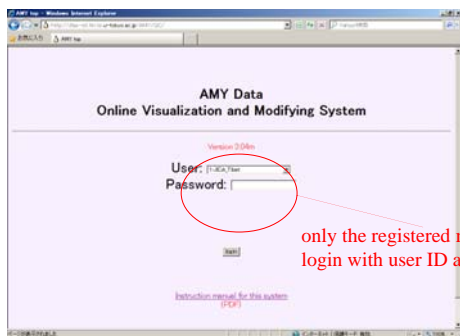
Features of our QC system

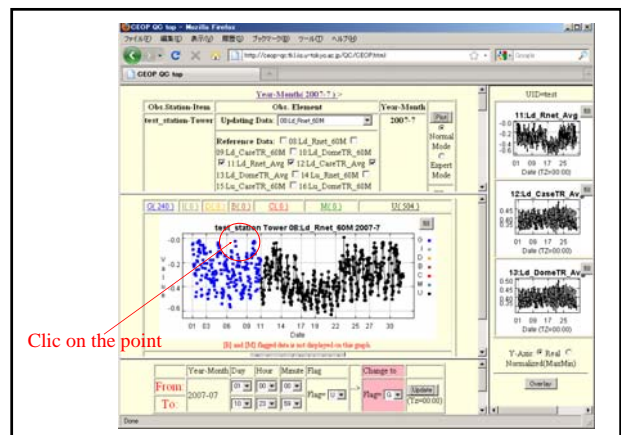
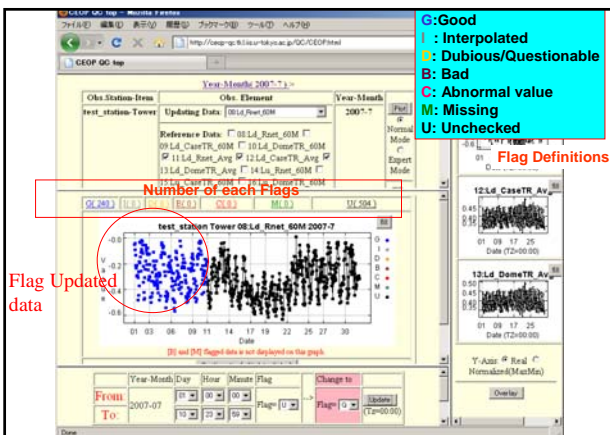
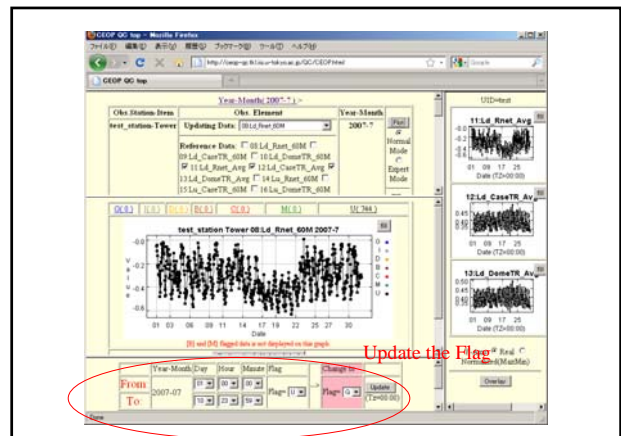
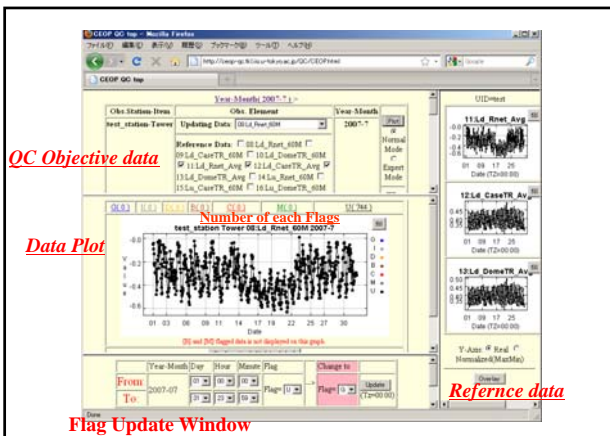
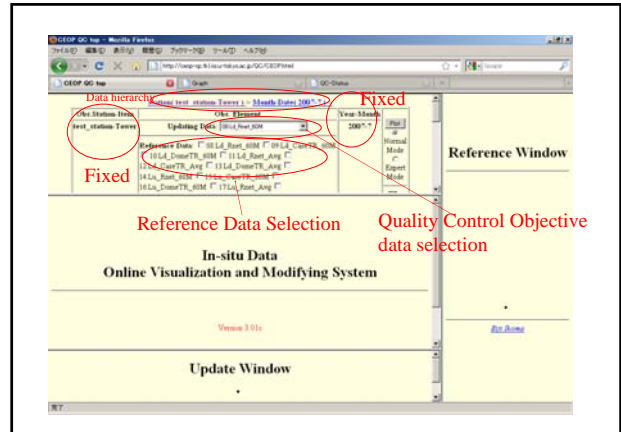
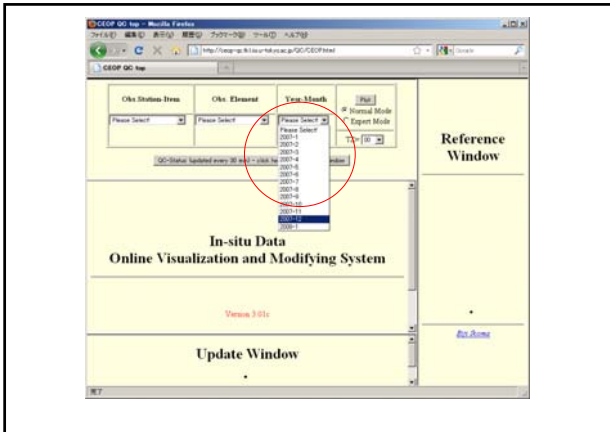
- Web-based UI (required only Web browser)
- Easy-to-use and light operation
- Data management mechanism for each user authority
- Post-QC Data download support system
- Progress Management system for Data Manager

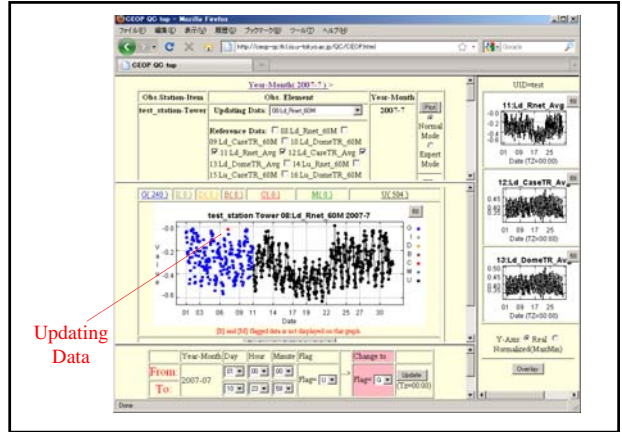
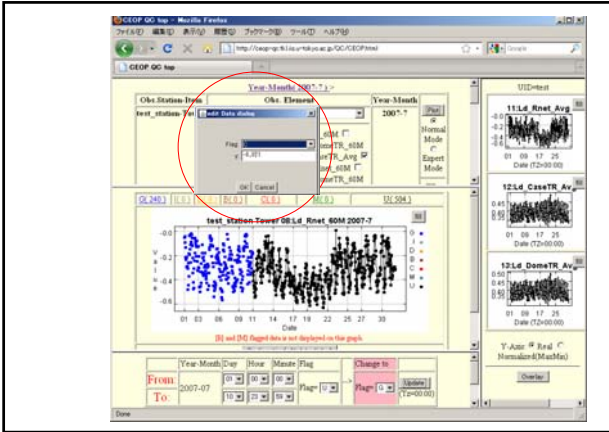
Outline of QC Process



QC-V3 Toppage

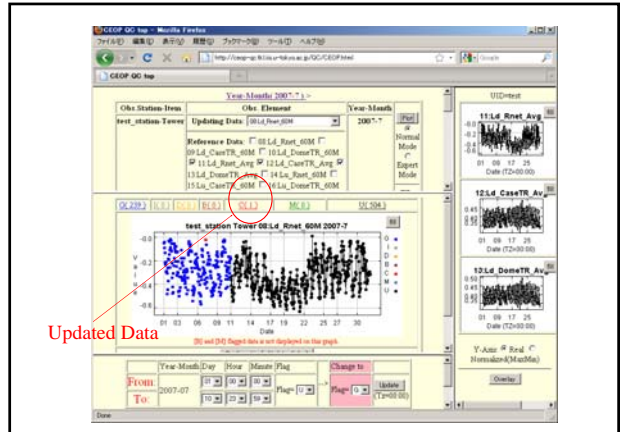
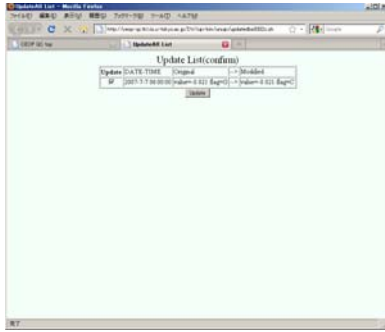




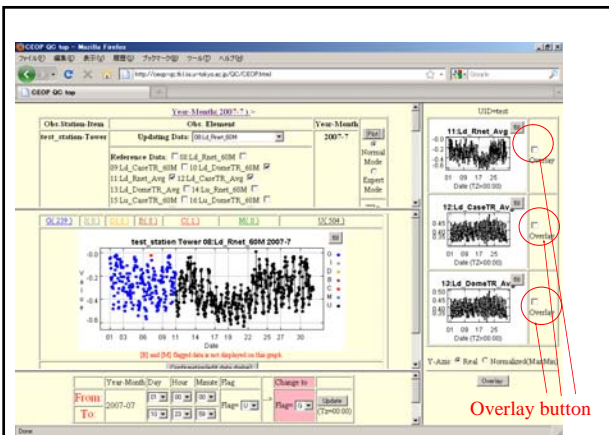


Updating Data

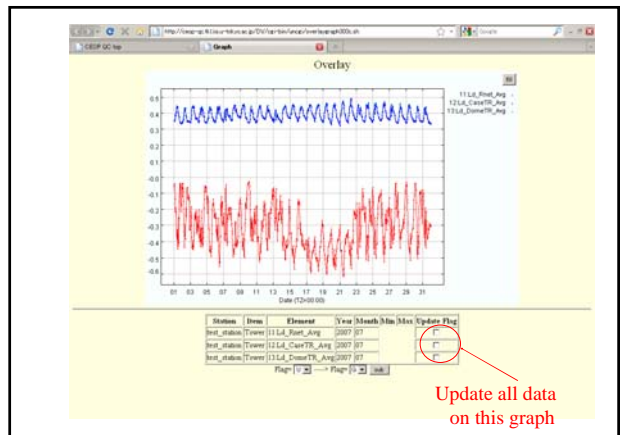
Confirmation for update



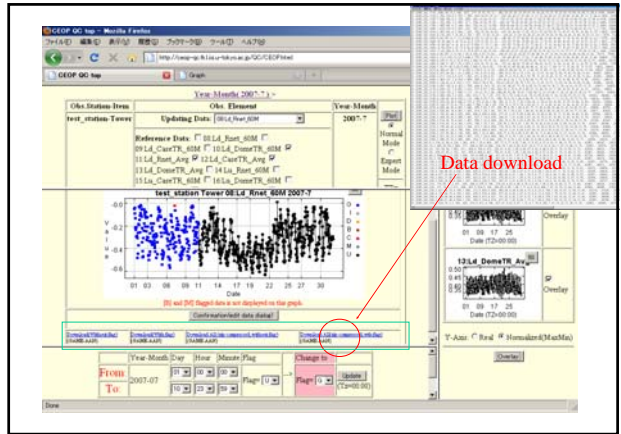
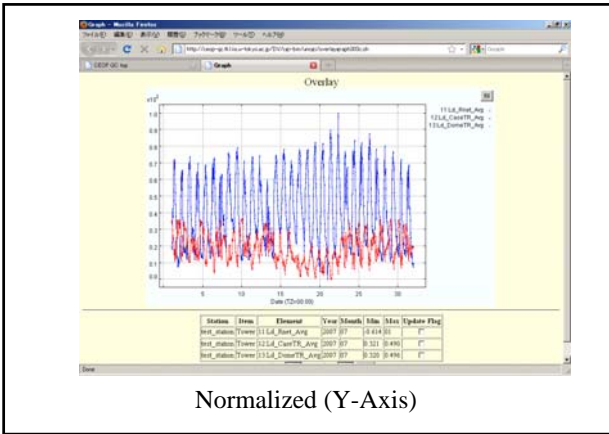
Updated Data



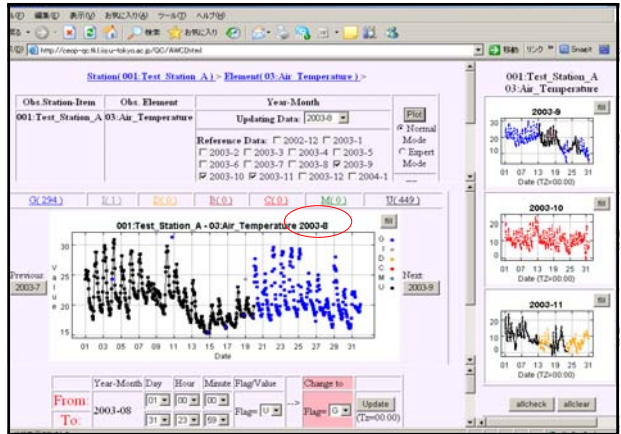
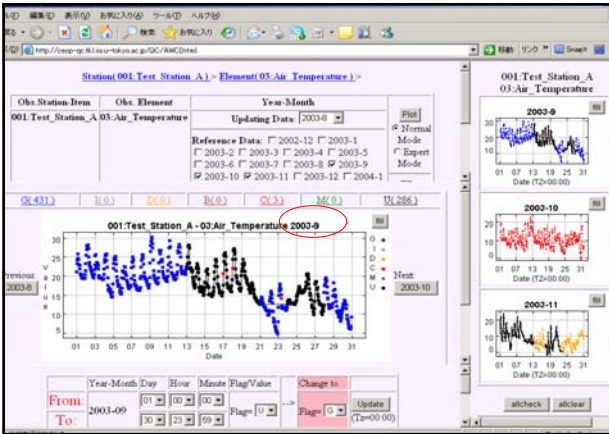
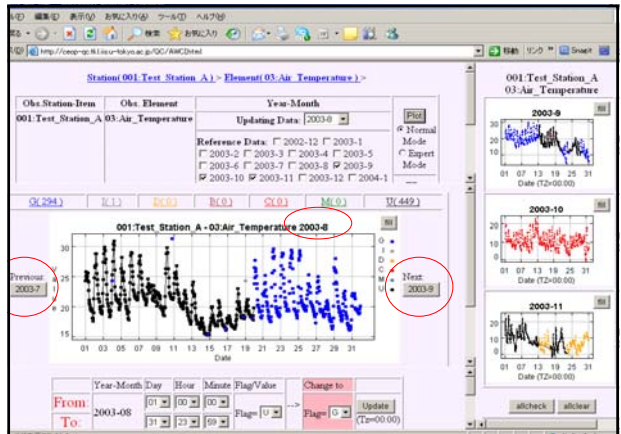
Overlay button

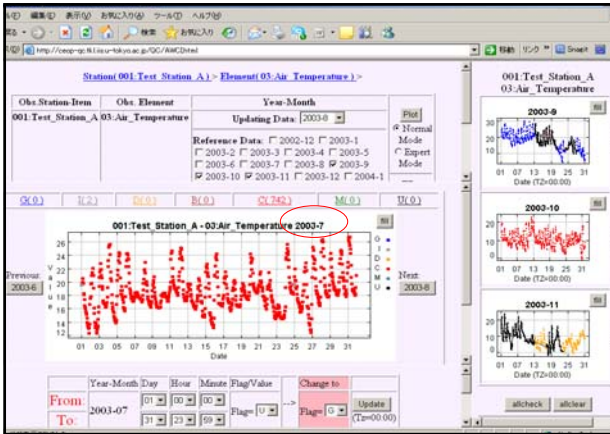


Update all data on this graph



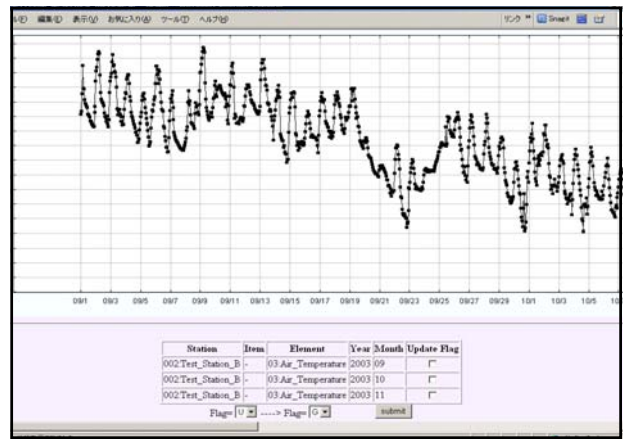
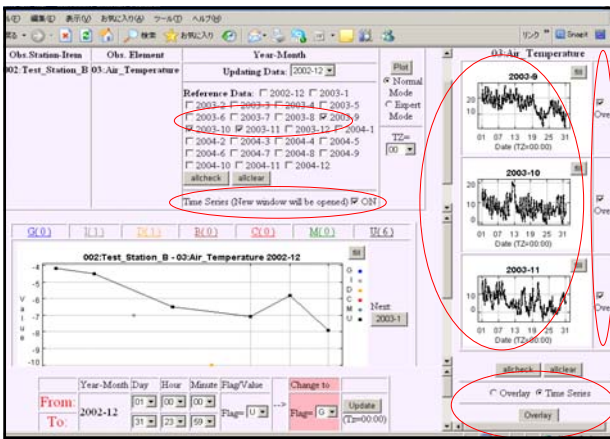
- Move to Next/Previous time period
- On Graph window, “Next” and “Previous” buttons are added.
 - Users can move to next/previous time period by clicking this button.
 - If you reach to the end/first of the observation term, no button are displayed.



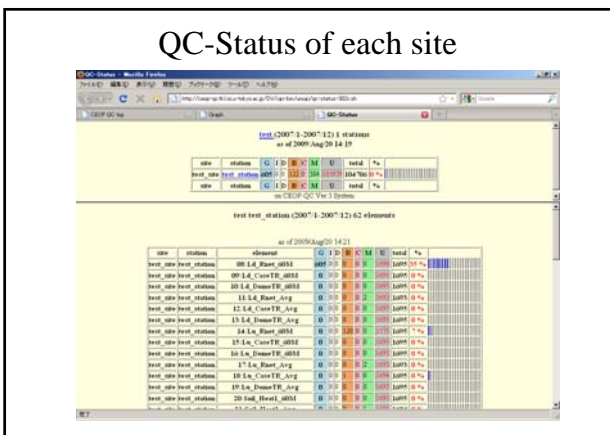


Generate Time series graph from select window directly

- On select window, New check box “Time Series” is available.
- If user check here, time series graph is displayed without operating on reference window.



QC-Status of each site



Status Report for Administrator(all sites)

