

GEOSS/AWCI Data loading and quality control system

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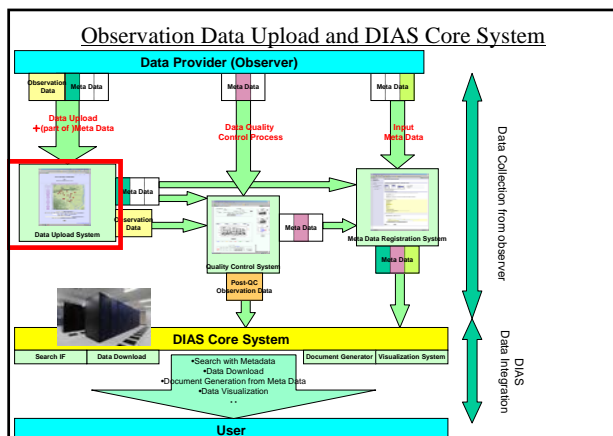
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Outline

0. GEOSS/AWCI data archiving update by Mr. Tamagawa
 1. Introduction of **Data Upload System**
 2. Introduction of **Data Quality Control System**
 - System Structure/How to use, New Features, Demonstration
- cont. Dr. Kinutani's presentation
(Meta-Data Registration System)



Observation Data Upload System

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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 AWCI 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



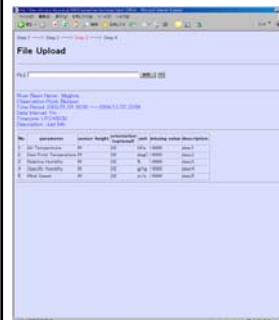
- Observation Point(Map/List)
- Time Period
- Data Interval
- Timezone
- Description (optional)
- Num. of observed elements

STEP2



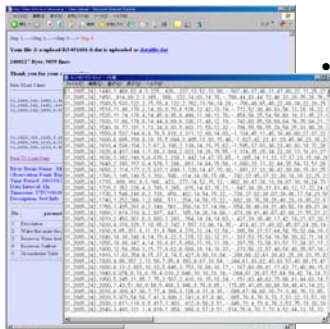
- Observation Data
 - Choose from pulldown menu
 - Sensor height
 - Orientation(op.)
 - Unit
 - Missing value
 - Description(op.)
1. Copy from No.1 to all
 2. Unit = Input Automatically when you choose observation data
 3. Copy from former inputted data
 4. Modify the num of observation data
 5. Upload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

Subject: For Admin AWCIData Upload Tone MAEBASHI
 From: eikoma@tkl.iis.u-tokyo.ac.jp
 To: xxxxxx@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
 Date: Mon, 19 Jan 2009 18:09:31 +0900 (JST)
 X-Mailer: smpsend 1.2.0

River Basin Name: Tone
 Point ID:MAEBASHI
 TimePeriod: 2004/01/01 00:00~2004/12/31 23:59
 Data Interval: 1hr
 Timezone: UTC-09:00
 Description: Meteorological st., Year 2004
 Num. of stations: 6
 Data Information is:
<http://dias-d.tkl.iis.u-tokyo.ac.jp/AWC/upload/data/06/2009011918085106/doc.html>
 Meta Data Information is:
<http://dias-d.tkl.iis.u-tokyo.ac.jp/AWC/upload/data/06/2009011918085106/xml.xml>
 Your Upload Files are:
<http://dias-d.tkl.iis.u-tokyo.ac.jp/AWC/upload/cgi-bin/doclist.sh?06+0>

Upload Status Page

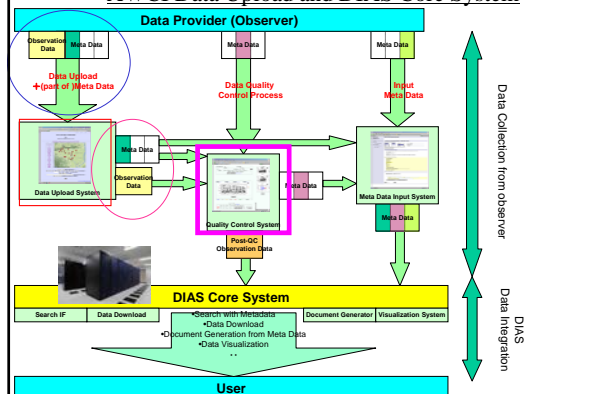
- Download each/all data
- Check meta-data
- Delete uploaded data

New Features

- Added Zooming up/down bar on map(STEP1)
- Renamed each data for data-download. (after STEP4)
ex. Datafile.dat → 06_006_2009011918032706_data-1.inf
- Changed the subject of confirmation mail to "Unique Subject". (Confirmation Mail → with River Basin Name etc..)
- Added "Daily" on Data Interval (STEP1)
- Set Default and Remember "Timezone"(STEP1)
- Remember "Number of Elements & Interval"(STEP1)
- Checking the existence of upload data(STEP3)
- Generated Confirmation Page when you delete data(after STEP4)

etc...

AWCIData Upload and DIAS Core System



Data Quality Control(QC) System

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 Tetsu Ohta, Kenji Taniguchi,
 Toshio Koike, Masaru Kitsuregawa

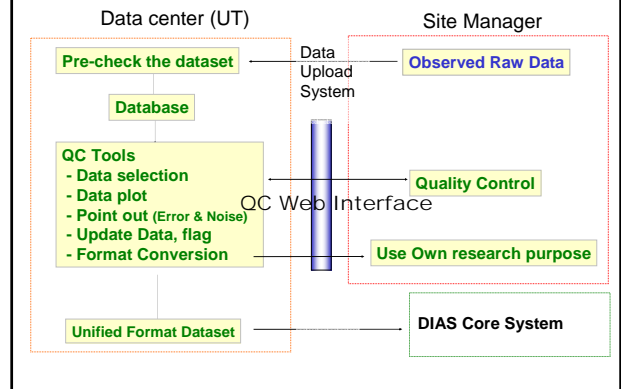
Our QC System

- 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
- We are running QC-V3 system for AWCIData Observation Data.

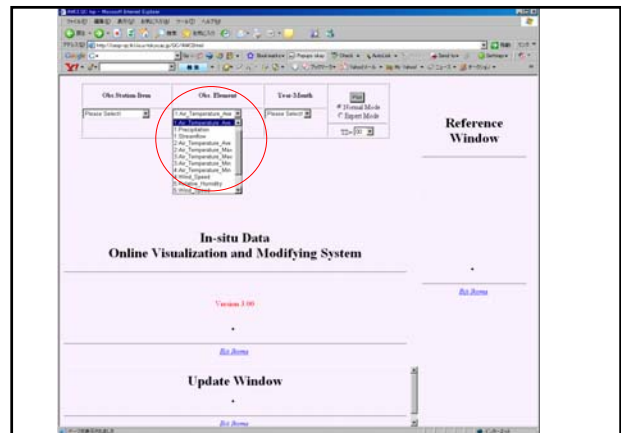
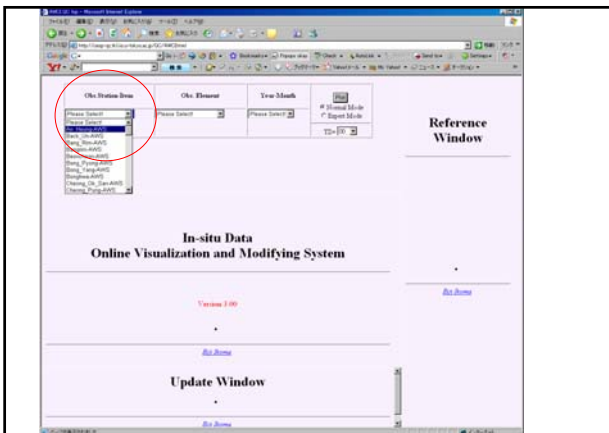
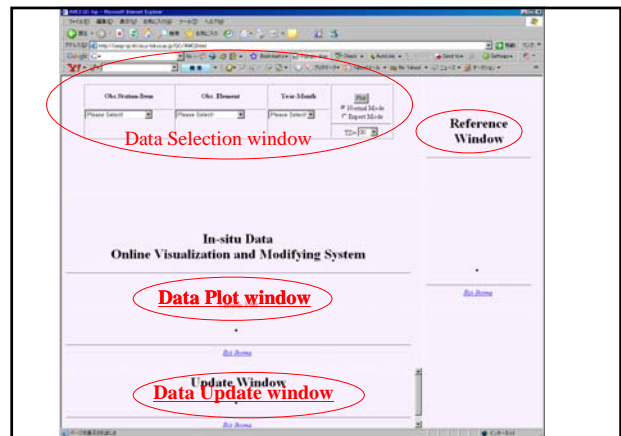
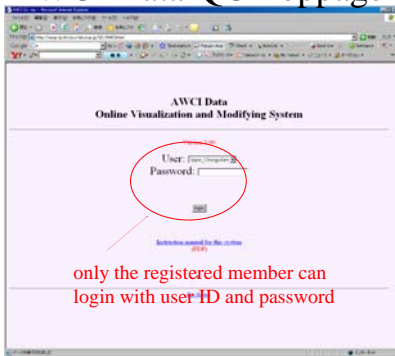
Features of our QC system

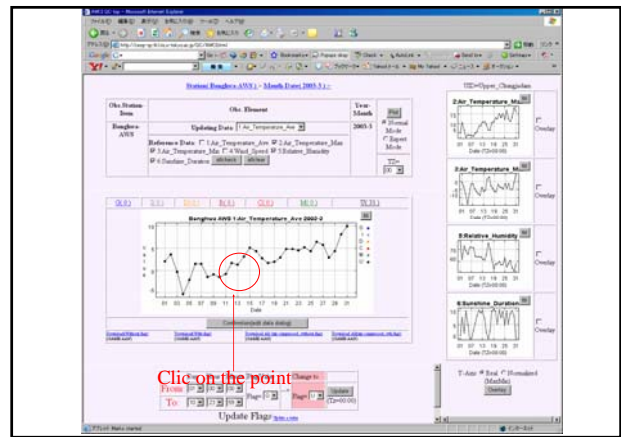
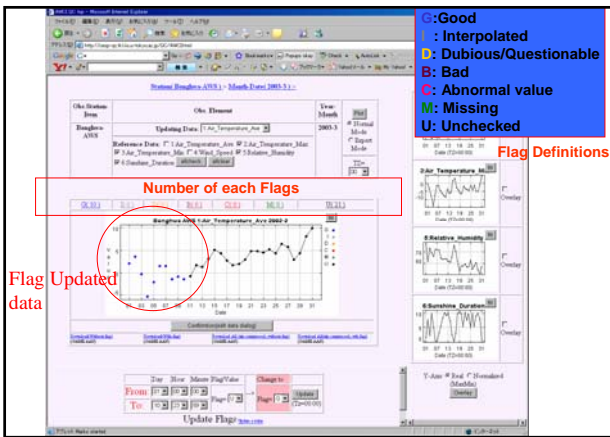
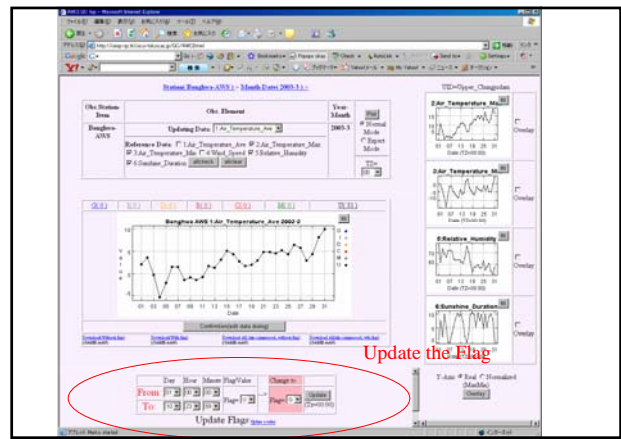
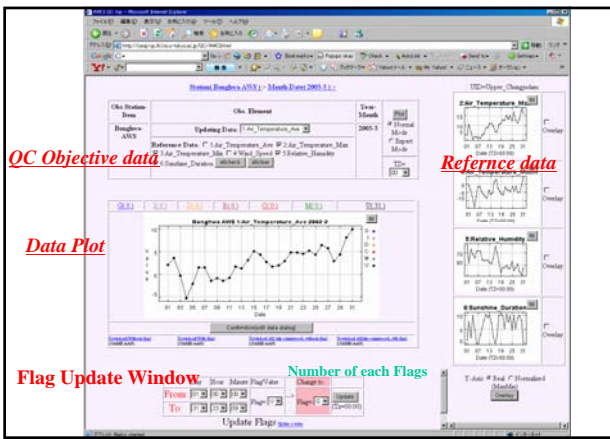
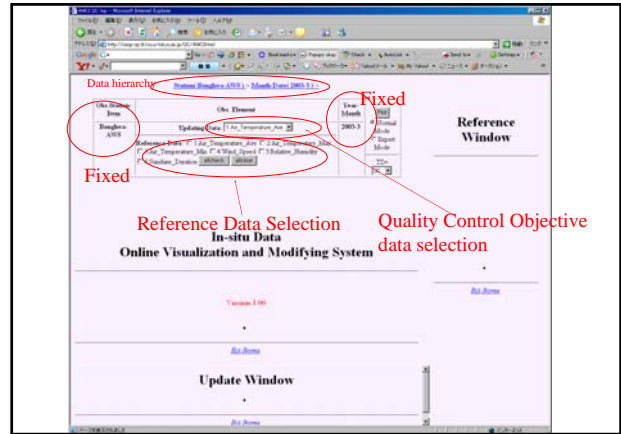
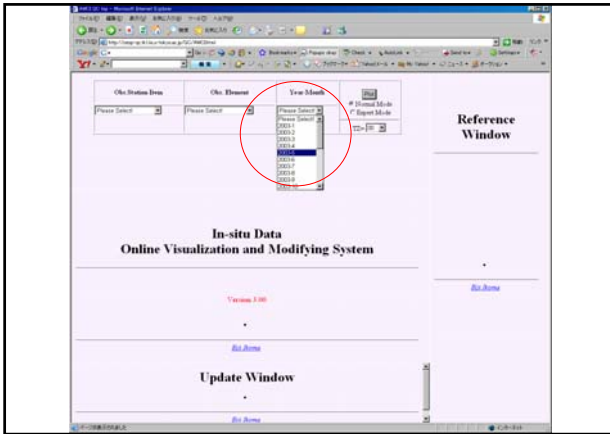
- Web-based UI (required only Web browser)
- Easy-to-use and light operation
- Data management mechanism for each user authority
- Post-QC Data download support system
- Progress Management system for Data Manager

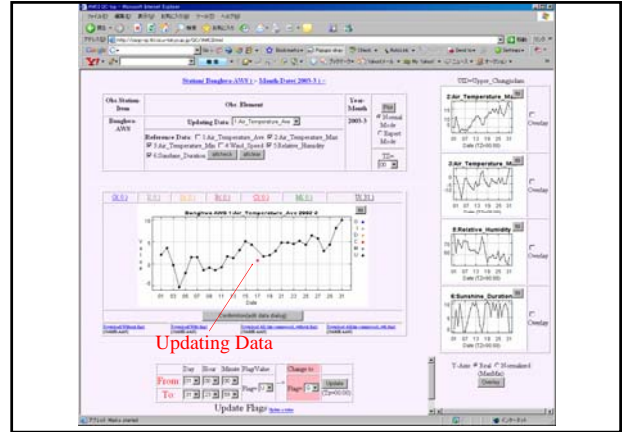
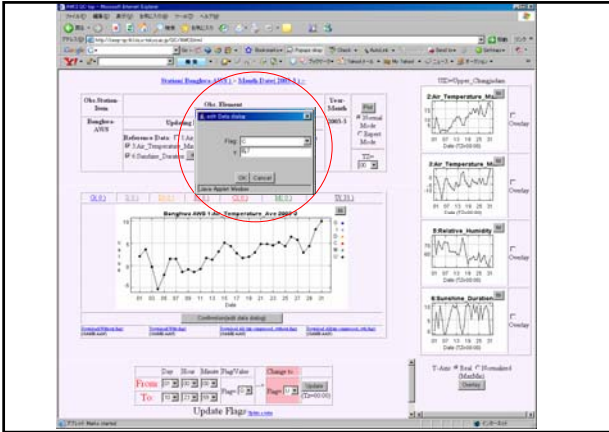
Outline of QC Process



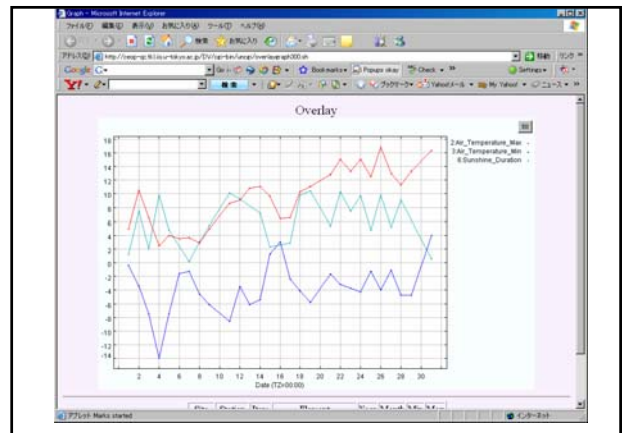
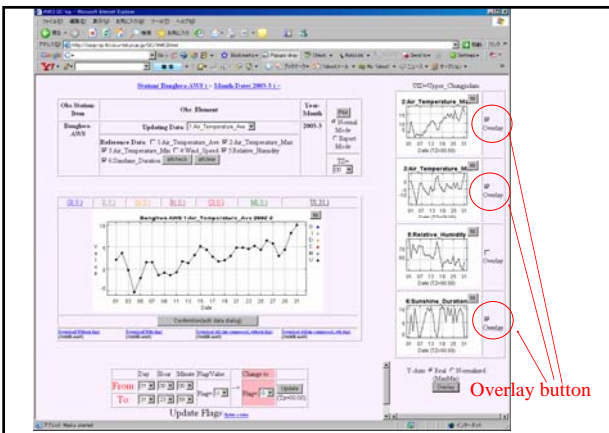
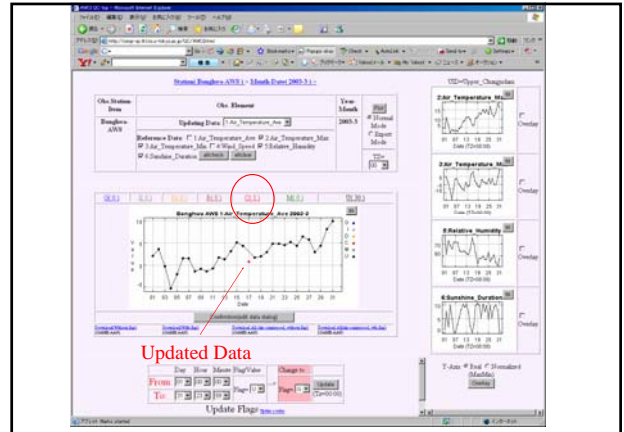
AWCI Data-QC Toppage

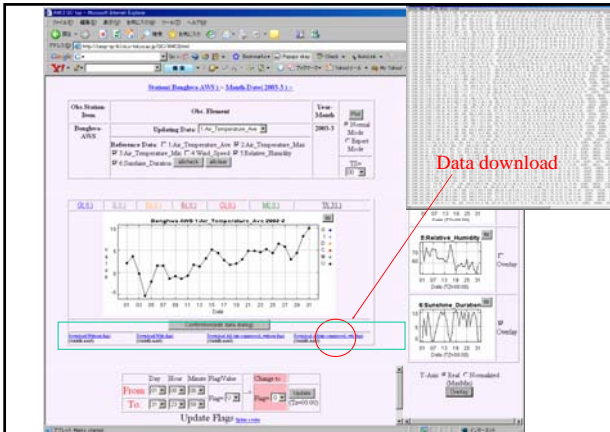






Confirmation for update





After QC

- QC-System will send the observation data to “DIAS Core System”
- Also will send Meta-Data to “Meta Data Registration System”
- Users can download your Post-QC Data easily.

