
Introduction to CAMP Quality Control Data System

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**5th CEOP Meeting in Paris
*27 February 2006***

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- 1. Background**
- 2. Outline of the CAMP (CEOP Asian Monsoon Project) Data Management**
- 3. Introduction to the Quality Control Data System**

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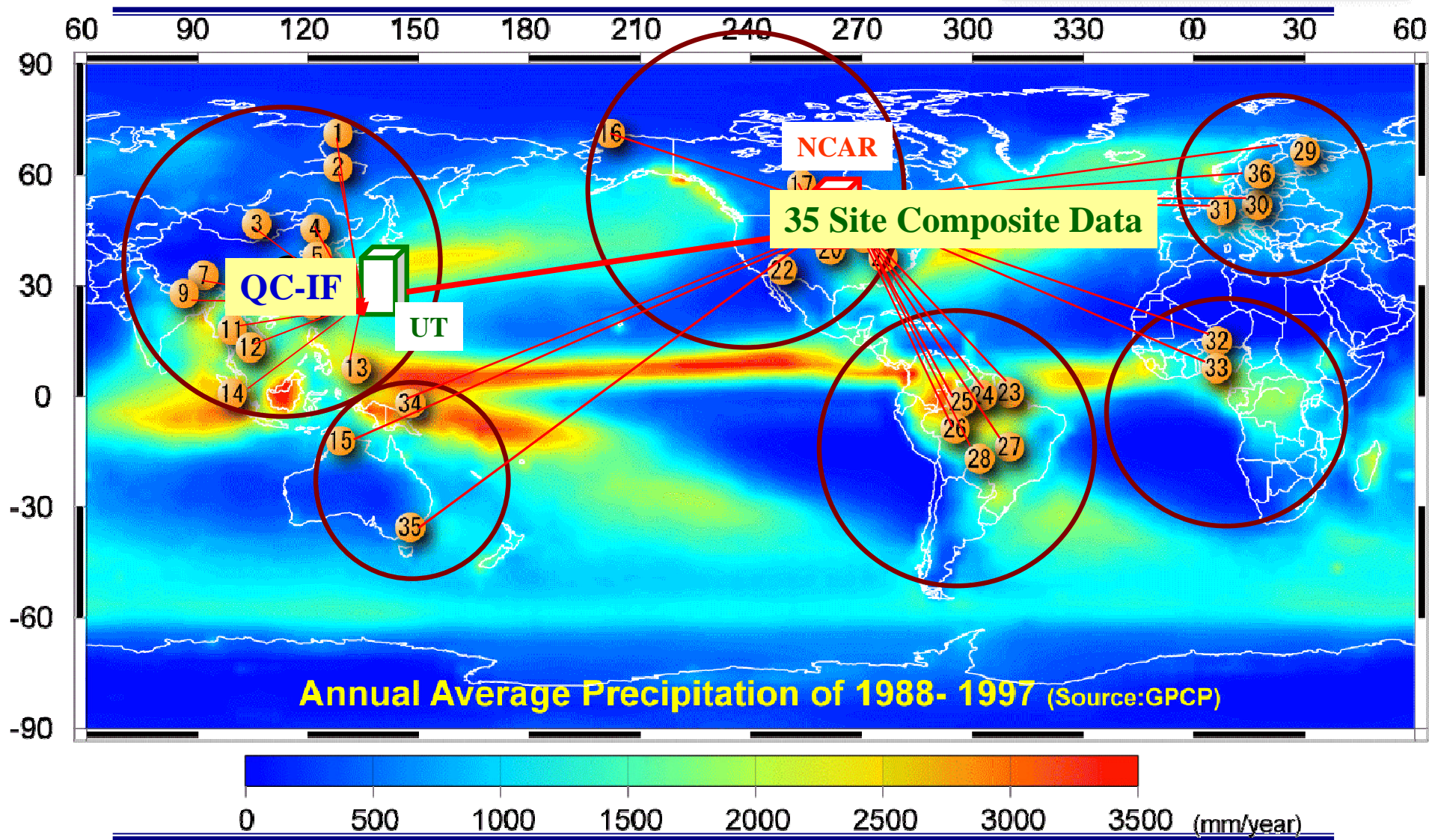
1. Background

2. Outline of the CAMP (CEOP Asian Monsoon Project) Data Management

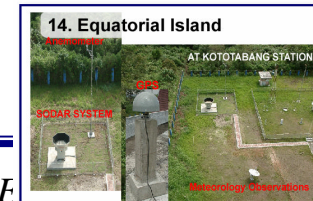
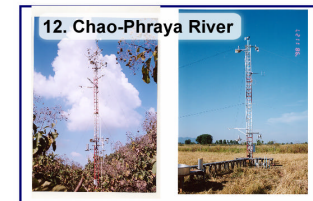
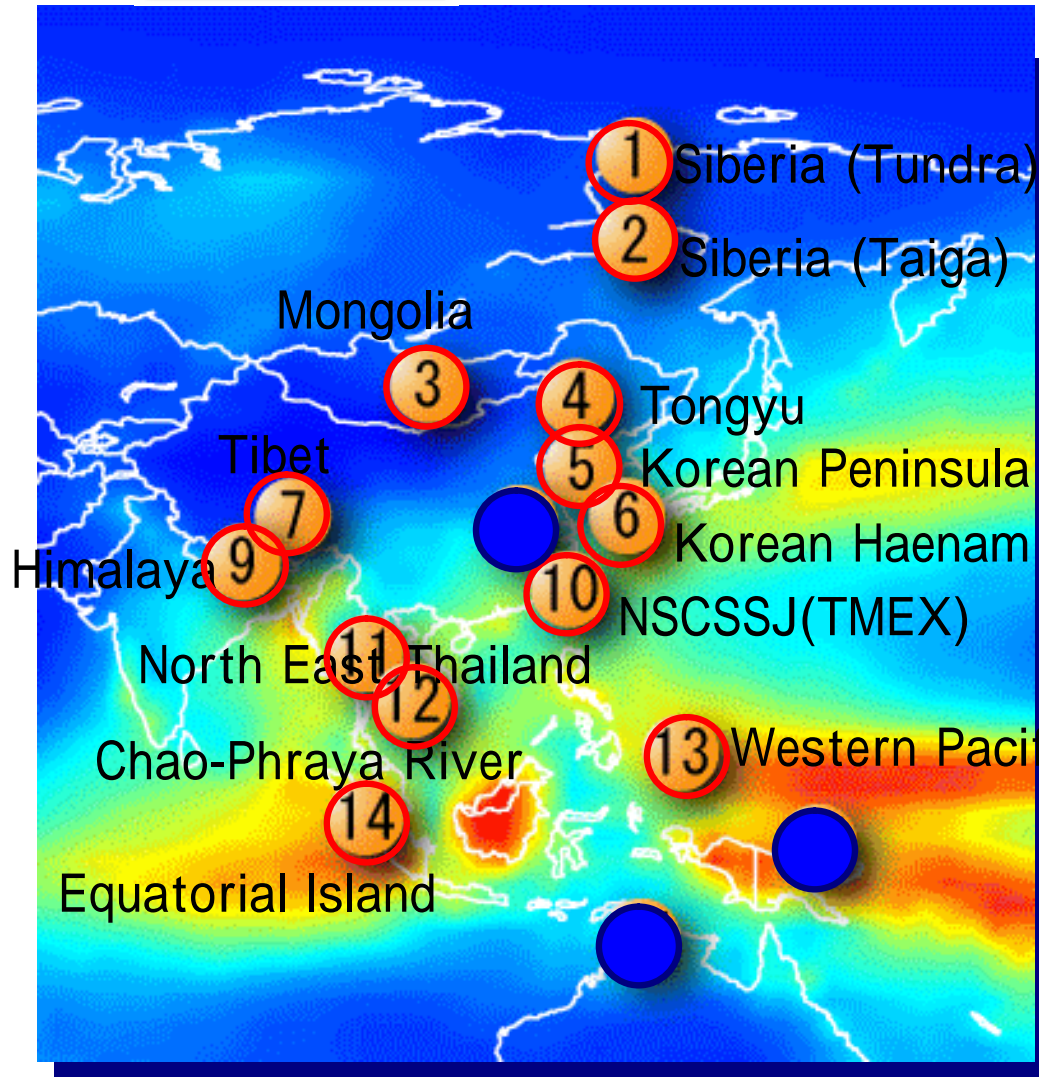
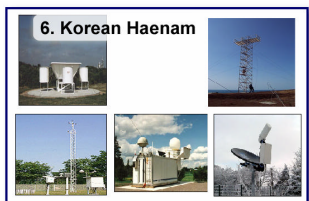
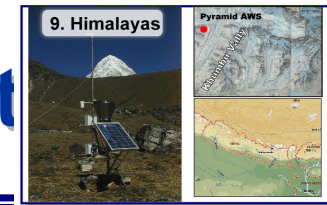
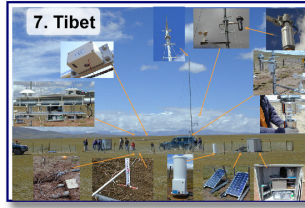
3. Introduction to the Quality Control Data System



CEOP 35 Reference Sites

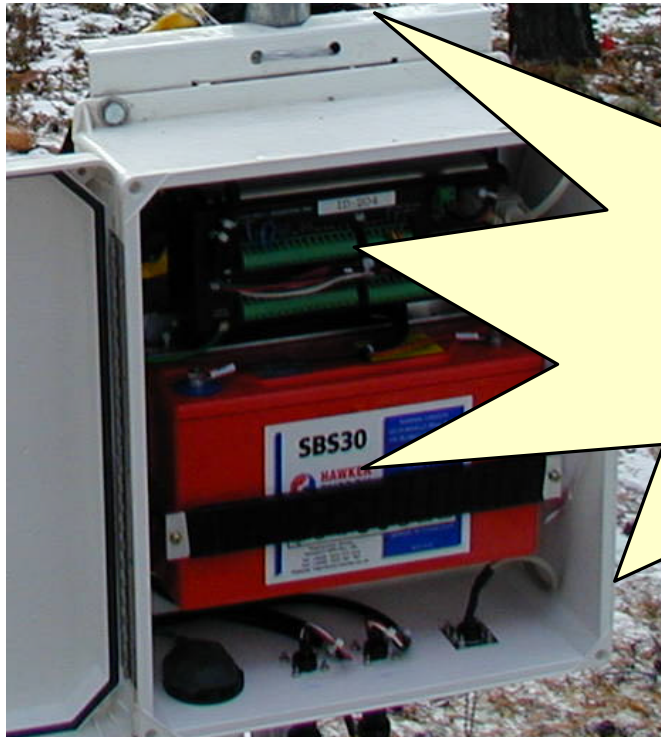


Data Management



Background

Researcher needs many process from archived raw data to research use by themselves



the
Researchers
uses a lot of
Time and
Energy
on

Date	Temperature	Dew Point	Relative Humidity	Specific Humidity
2003/04/01 00:00	-5.70 G	-11.75 I	63.30 G	1.56
2003/04/01 01:00	-5.70 G	-9.89 I	72.30 G	1.81
2003/04/01 02:00	-5.50 G	-9.40 I	74.00 G	1.88
2003/04/01 03:00	-5.50 G	-9.32 I	76.20 G	1.89
2003/04/01 04:00	-5.50 G	-9.32 I	74.50 G	1.82
2003/04/01 05:00	-5.50 G	-9.67 I	78.20 G	1.84
2003/04/01 06:00	-5.50 G	-12.14 I	72.70 G	1.51
2003/04/01 07:00	-5.50 G	-15.64 I	67.50 G	1.13
2003/04/01 08:00	-5.50 G	-17.61 I	72.30 G	0.96
2003/04/01 09:00	-5.50 G	-18.44 I	71.40 G	0.89
2003/04/01 10:00	-5.50 G	-19.95 I	68.10 G	0.78
2003/04/01 11:00	-5.50 G	-21.47 I	65.40 G	0.69
2003/04/01 12:00	-5.50 G	-21.47 I	66.90 G	0.63
2003/04/01 13:00	-5.50 G	-21.47 I	65.50 G	0.56
2003/04/01 14:00	-5.50 G	-24.83 I	60.50 G	0.51
2003/04/01 15:00	-5.50 G	-25.36 I	59.20 G	0.48
2003/04/01 16:00	-5.50 G	-25.70 I	59.90 G	0.47
2003/04/01 17:00	-5.50 G	-26.00 I	63.00 G	0.46
2003/04/01 18:00	-5.50 G	-26.57 I	63.60 G	0.43
2003/04/01 19:00	-5.50 G	-26.59 I	65.70 G	0.43
2003/04/01 20:00	-5.50 G	-27.00 I	67.90 G	0.42
2003/04/01 21:00	-5.50 G	-26.96 I	71.90 G	0.42
2003/04/01 22:00	-5.50 G	-25.09 I	75.30 G	0.50
2003/04/01 23:00	-5.50 G	-20.70 G	68.40 G	0.50
2003/04/02 00:00	-5.50 G	-19.40 G	60.80 G	0.50
2003/04/02 01:00	-5.50 G	-18.00 G	60.80 G	0.56
2003/04/02 02:00	-5.50 G	-16.50 G	60.80 G	0.64

Background

In addition

- If there were questionable or strange data, researcher is the **only one** to **judge** if these data are **good** or **bad**, because he know the **physical phenomena** of his own observation site.

Background

To reduce all the work and time for data checking and format conversion

- The UT team has established an **Internet based QC system** that observer can use to check his data on through the web.

The screenshot displays the CEOP Data Online Data Visualization and Modifying System interface. The left panel shows the login screen with the title "CEOP Data Online Data Visualization and Modifying System", version "Version 2.00 (for EOP-3)", and a login form with fields for "User:" (set to "guest") and "Password:", along with a "login" button and a link to the "Instruction manual for this system (PDF)".

The right panel shows the data visualization interface for "TEST_Station-AWS G2(2.5)". It includes a table for "Obs. Station-Item" and "Obs. Element", a "Year-Month" selector, and a "Updating Data" dropdown set to "2003-1". Below this is a large time-series plot for "TEST_Station AWS G2(2.5) 2003-1" showing data points over time. To the right of the plot are several smaller plots for different months (2002-10, 2002-11, 2002-12, 2003-1, 2003-2) with "Overlay" checkboxes. At the bottom, there is an "Update Flags" section with a table for selecting update ranges.

Station	Item	Element	Year-Month	Day	Hour	Minute	Flag
From:	EOP-3	AWS	G2(2.5)	2003-01	01	00	00
To:				31	23	59	

Contents

1. Background

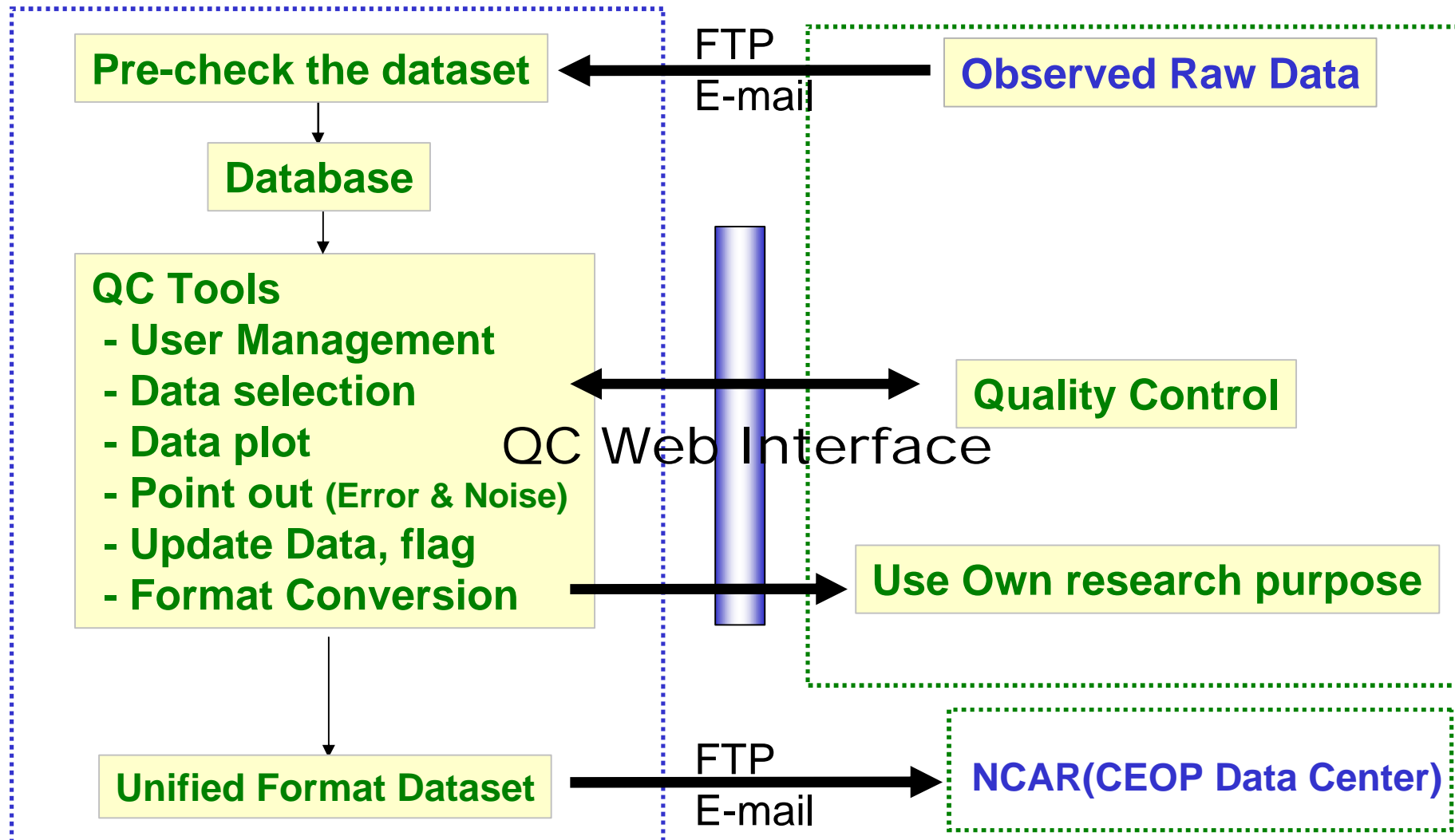
2. Outline of the CAMP (CEOP Asian Monsoon Project) Data Management

3. Introduction to the Quality Control Data System

2. Outline of the CAMP Data Management

CAMP Data center: UT

Site Manager



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3. Introduction of the QC Interface

Quality Control Data System Demo

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

CEOP Data Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

User:

Password:

[Instruction manual for this system \(PDF\)](#)
Login with USER ID and Password

[Eiji Ikoma](#)

Obs. Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select!	Plot
BACK FORWARD Data Selection			

Data Selection window

Reference Window

**CEOP Data
Online Data Visualization and Modifying System**

Data Plot window

Version 2.00 (for EOP-3)

Data Update window

Update Window

[Eiji Ikoma](#)

[Eiji Ikoma](#)

[Eiji Ikoma](#)



Data Visualization

Obs.Station-Item	Obs. Element	Year-Month	
Please Select!	Please Select!	Please Select!	Plot
BACK FORWARD Data Selection			

CEOP Data Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

[Eiji Ikoma](#)

Update Window

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Reference Window

[Eiji Ikoma](#)

Obs.Station-Item	Obs. Element	Year-Month	Plot
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](#)

Reference Window

CEOP Data Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

[Eiji Ikoma](#)

[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

Obs.Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select!	Plot
	Please Select!		
	Air_Pressure		
	Air_Temperature		
	Air_Temperature_0.5m		
	Air_Temperature_1.0m		
	Air_Temperature_1.0m_10min		
	Air_Temperature_1.35m		
	Air_Temperature_1.55m		
	Air_Temperature_1.8m		
	Air_Temperature_1.95m		
	Air_Temperature_10m		

Reference Window

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Update Window

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Obs.Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select!	Plot
<input type="button" value="BACK"/> <input type="button" value="FORWARD"/> Data Selection			
		Please Select! 2002-1 2002-2 2002-3 2002-4 2002-5 2002-6 2002-7 2002-8 2002-9 2002-10	

Reference Window

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Update Window

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Obs.Station-Item	Obs. Element	Year-Month	Plot
Please Select!	Please Select!	Please Select!	Plot
BACK FORWARD Data Selection			

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Update Window

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Obs. Station-Item	Obs. Element	Year-Month	Plot
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](#)

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Obs.Station-Item	Obs. Element	Year-Month	Plot
TEST_Station-AWS	Please Select! ▾	Please Select! ▾	Plot
BACK FORWARD Data Selection			

Reference Window

CEOP Data Online Data Visualization and Modifying System

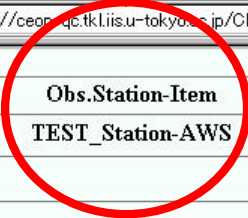
Version 2.00 (for EOP-3)

[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

Obs.Station-Item	Obs. Element	Year-Month	
TEST_Station-AWS	Please Select!	Please Select!	Plot
	BACK FORWARD Data Select	Please Select! 2002-10 2002-11 2002-12 2003-1 2003-2 2003-3 2003-4	



Fixed

Reference Window

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[Eiji Ikoma](#)

CEOP Data Online Data Visualization and Modifying System

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Update Window

[Eiji Ikoma](#)

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

Fixed BACK FORWARD Data Selection Fixed

Reference Window

Quality Control Objective data selection
CEOP Data
Online Data Visualization and Modifying System
Reference Data Selection [Eiji Ikoma](#)

Version 2.00 (for EOP-3)

[Eiji Ikoma](#)

Update Window

Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: G(-7.5)	2002-10 Plot
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input type="checkbox"/> Prc <input type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-6) <input type="checkbox"/> ST(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-8) <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-12) <input type="checkbox"/> Ts(-15) <input 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type="checkbox"/> ff(27.1) <input type="checkbox"/> ff(28.0) <input type="checkbox"/> ff(28.9) <input type="checkbox"/> ff(29.8) <input type="checkbox"/> ff(30.7) <input type="checkbox"/> ff(31.6) <input type="checkbox"/> ff(32.5) <input type="checkbox"/> ff(33.4) <input type="checkbox"/> ff(34.3) <input type="checkbox"/> ff(35.2) <input type="checkbox"/> ff(36.1) <input type="checkbox"/> ff(37.0) <input type="checkbox"/> ff(37.9) <input type="checkbox"/> ff(38.8) <input type="checkbox"/> ff(39.7) <input type="checkbox"/> ff(40.6) <input type="checkbox"/> ff(41.5) <input type="checkbox"/> ff(42.4) <input type="checkbox"/> ff(43.3) <input type="checkbox"/> ff(44.2) <input type="checkbox"/> ff(45.1) <input type="checkbox"/> ff(46.0) <input type="checkbox"/> ff(46.9) <input type="checkbox"/> ff(47.8) <input type="checkbox"/> ff(48.7) <input type="checkbox"/> ff(49.6) <input type="checkbox"/> ff(50.5) <input type="checkbox"/> ff(51.4) <input type="checkbox"/> ff(52.3) <input type="checkbox"/> ff(53.2) <input type="checkbox"/> ff(54.1) <input type="checkbox"/> ff(55.0) <input type="checkbox"/> ff(55.9) <input type="checkbox"/> ff(56.8) <input type="checkbox"/> ff(57.7) <input type="checkbox"/> ff(58.6) <input type="checkbox"/> ff(59.5) <input type="checkbox"/> ff(60.4) <input type="checkbox"/> ff(61.3) <input type="checkbox"/> ff(62.2) <input type="checkbox"/> ff(63.1) <input type="checkbox"/> ff(64.0) <input type="checkbox"/> ff(64.9) <input type="checkbox"/> ff(65.8) <input type="checkbox"/> ff(66.7) <input type="checkbox"/> ff(67.6) <input type="checkbox"/> ff(68.5) <input type="checkbox"/> ff(69.4) <input type="checkbox"/> ff(70.3) <input type="checkbox"/> ff(71.2) <input type="checkbox"/> ff(72.1) <input type="checkbox"/> ff(73.0) <input type="checkbox"/> ff(73.9) <input type="checkbox"/> ff(74.8) <input type="checkbox"/> ff(75.7) <input type="checkbox"/> ff(76.6) <input type="checkbox"/> ff(77.5) <input type="checkbox"/> ff(78.4) <input type="checkbox"/> ff(79.3) <input type="checkbox"/> ff(80.2) <input type="checkbox"/> ff(81.1) <input type="checkbox"/> ff(82.0) <input type="checkbox"/> ff(82.9) <input type="checkbox"/> ff(83.8) <input type="checkbox"/> ff(84.7) <input type="checkbox"/> ff(85.6) <input type="checkbox"/> ff(86.5) <input type="checkbox"/> ff(87.4) <input type="checkbox"/> ff(88.3) <input type="checkbox"/> ff(89.2) <input type="checkbox"/> ff(90.1) <input type="checkbox"/> ff(91.0) <input type="checkbox"/> ff(91.9) <input type="checkbox"/> ff(92.8) <input type="checkbox"/> ff(93.7) <input type="checkbox"/> ff(94.6) <input type="checkbox"/> ff(95.5) <input type="checkbox"/> ff(96.4) <input type="checkbox"/> ff(97.3) <input type="checkbox"/> ff(98.2) <input type="checkbox"/> ff(99.1) <input type="checkbox"/> ff(100.0)	

Reference Window

CEOP Data Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2005 10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G50(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Td <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> ffmaz60(4.6) <input type="checkbox"/> prs	

BACK FORWARD [Data Selection](#)

Plot

Reference Window

CEOP Data Online Data Visualization and Modifying System

Version 2.00 (for EOP-3)

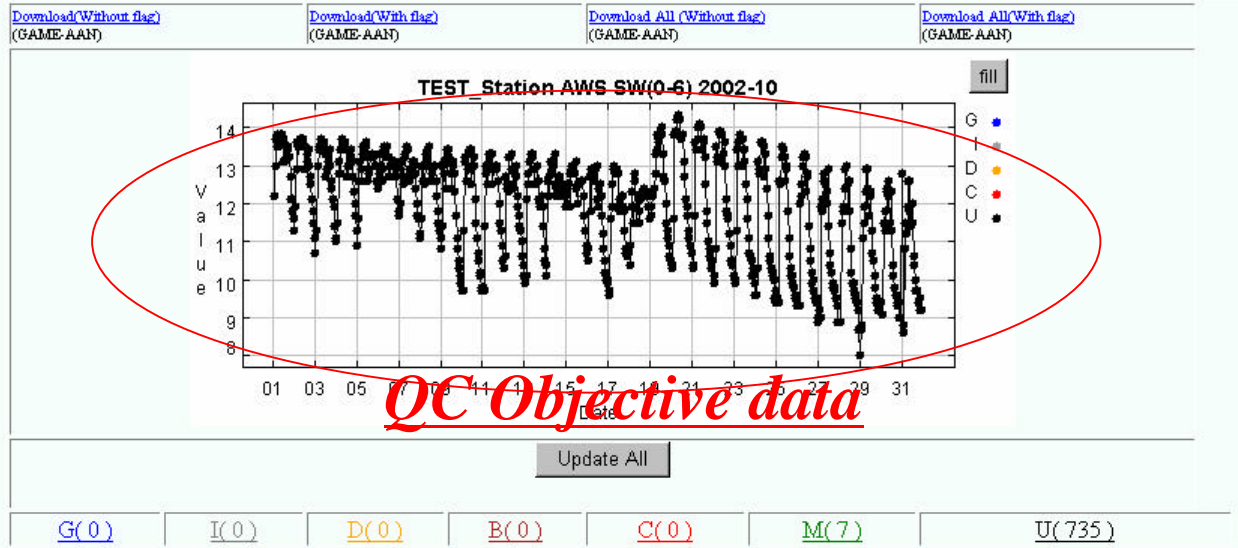
[Eiji Ikoma](#)

Update Window

[Eiji Ikoma](#)

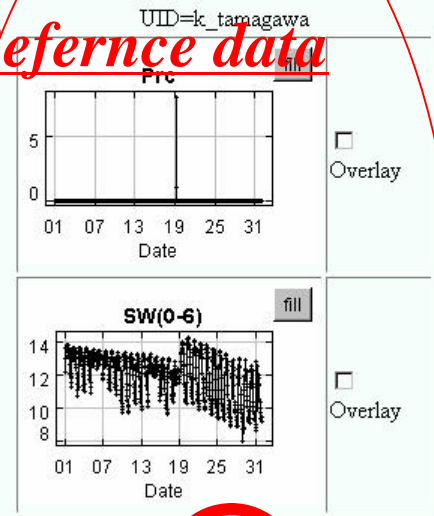
Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> Prc <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> fmax60(4.6) <input type="checkbox"/> prs	

BACK FORWARD [Data Selection](#) Plot



QC Objective data

Reference data



Overlay

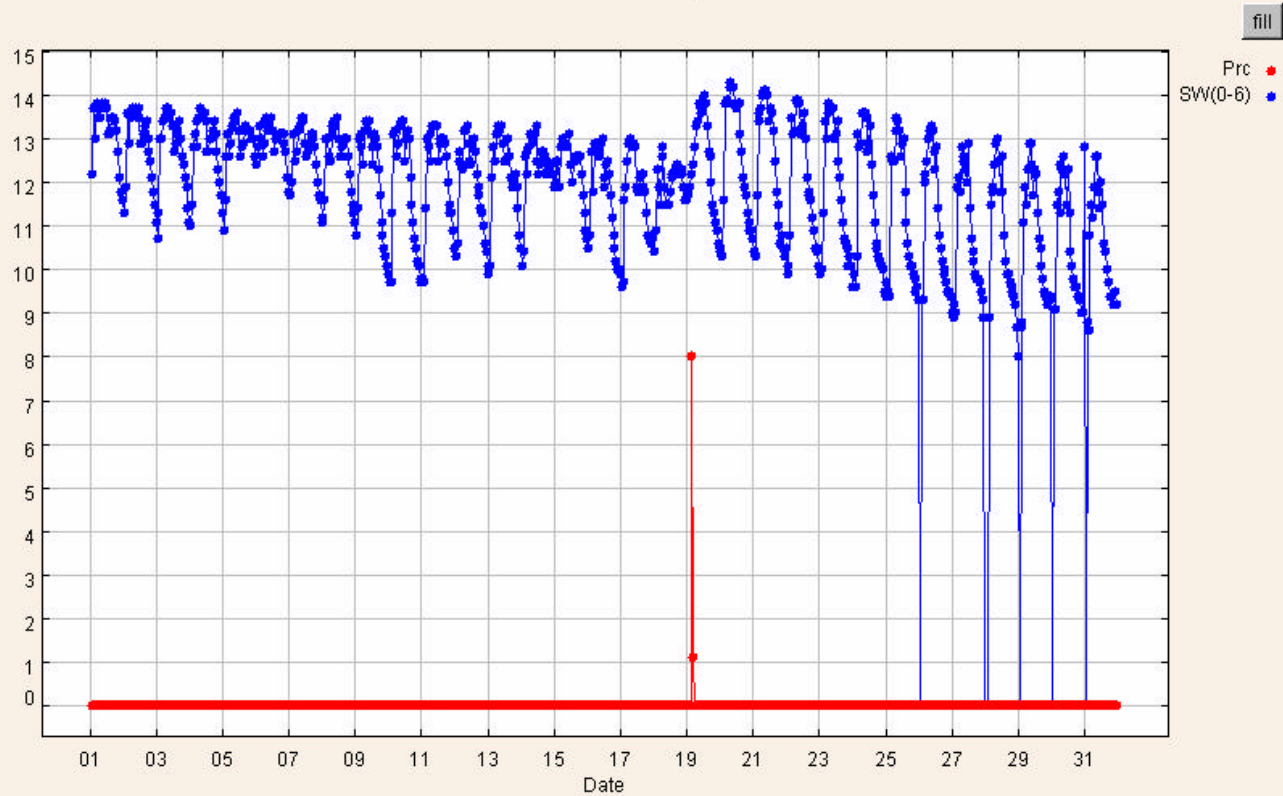
Overlay button

Data Update Window

Update Flags [Update a value](#)

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

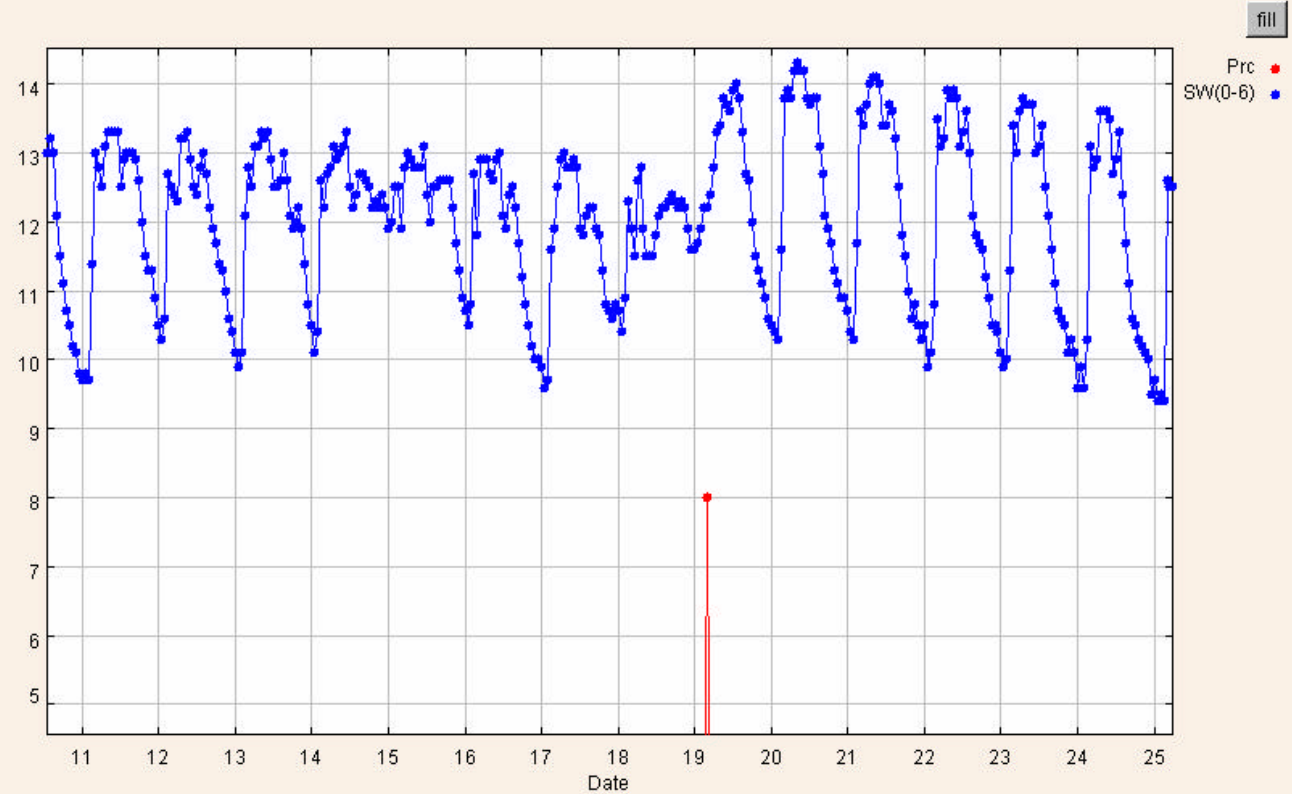
Overlay



Site	Station	Item	Element	Year	Month
EOP-3	TEST_Station	AWS	Prc	2002	10
EOP-3	TEST_Station	AWS	SW(0-6)	2002	10

Overlaid Graph

Overlay



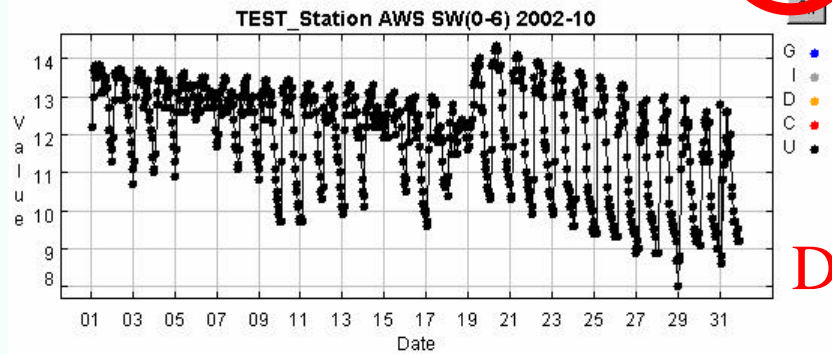
Site	Station	Item	Element	Year	Month
EOP-3	TEST_Station	AWS	Prc	2002	10
EOP-3	TEST_Station	AWS	SW(0-6)	2002	10

Scalable architecture by using mouse

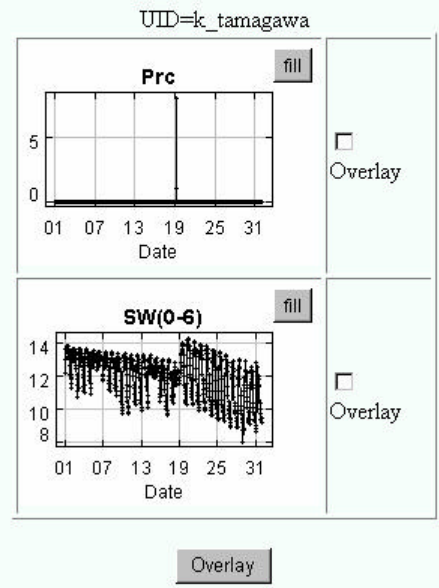
Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> Prc <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> fmax60(4.6) <input type="checkbox"/> prs	

BACK FORWARD [Data Selection](#)

[Download\(Without flag\) \(GAME-AAN\)](#)
 [Download\(With flag\) \(GAME-AAN\)](#)
 [Download All \(Without flag\) \(GAME-AAN\)](#)
 [Download All\(With flag\) \(GAME-AAN\)](#)



Data download



[G\(0\)](#)
 [I\(0\)](#)
 [D\(0\)](#)
 [B\(0\)](#)
 [C\(0\)](#)
 [M\(7\)](#)
 [U\(735\)](#)

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
To:					31	23	59	Update

http://ceop-qc.tk.liis.u-tokyo.ac.jp/DV/cgi-bin/downloadfile?1402+SW(0-6)+k_tamagawa - 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 移動

アドレス(D) http://ceop-qc.tk.liis.u-tokyo.ac.jp/DV/cgi-bin/downloadfile?1402+SW(0-6)+k_tamagawa

```
yyyy,date,UTC,SW(0-6),SW(0-6)F
2002,1001,0200,12.20,U
2002,1001,0300,13.70,U
2002,1001,0400,13.00,U
2002,1001,0500,13.80,U
2002,1001,0600,13.50,U
2002,1001,0700,13.50,U
2002,1001,0800,13.70,U
2002,1001,0900,13.80,U
2002,1001,1000,13.70,U
2002,1001,1100,13.80,U
2002,1001,1200,13.70,U
2002,1001,1300,13.10,U
2002,1001,1400,13.10,U
2002,1001,1500,13.20,U
2002,1001,1600,13.50,U
2002,1001,1700,13.50,U
2002,1001,1800,13.40,U
2002,1001,1900,13.20,U
2002,1001,2000,12.70,U
2002,1001,2100,12.10,U
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2002,1001,2300,11.80,U
2002,1002,0000,11.60,U
2002,1002,0100,11.30,U
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2002,1002,0700,13.70,U
2002,1002,0800,13.60,U
2002,1002,0900,13.70,U
2002,1002,1000,13.60,U
2002,1002,1100,13.70,U
2002,1002,1200,13.50,U
2002,1002,1300,12.90,U
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2002,1002,1500,13.10,U
2002,1002,1600,13.30,U
2002,1002,1700,13.40,U
2002,1002,1800,13.00,U
2002,1002,1900,12.70,U
2002,1002,2000,12.50,U
2002,1002,2100,12.10,U
2002,1002,2200,11.80,U
2002,1002,2300,11.50,U
2002,1003,0000,11.10,U
2002,1003,0100,10.70,U
2002,1003,0200,11.30,U
2002,1003,0300,13.00,U
```

ページが表示されました

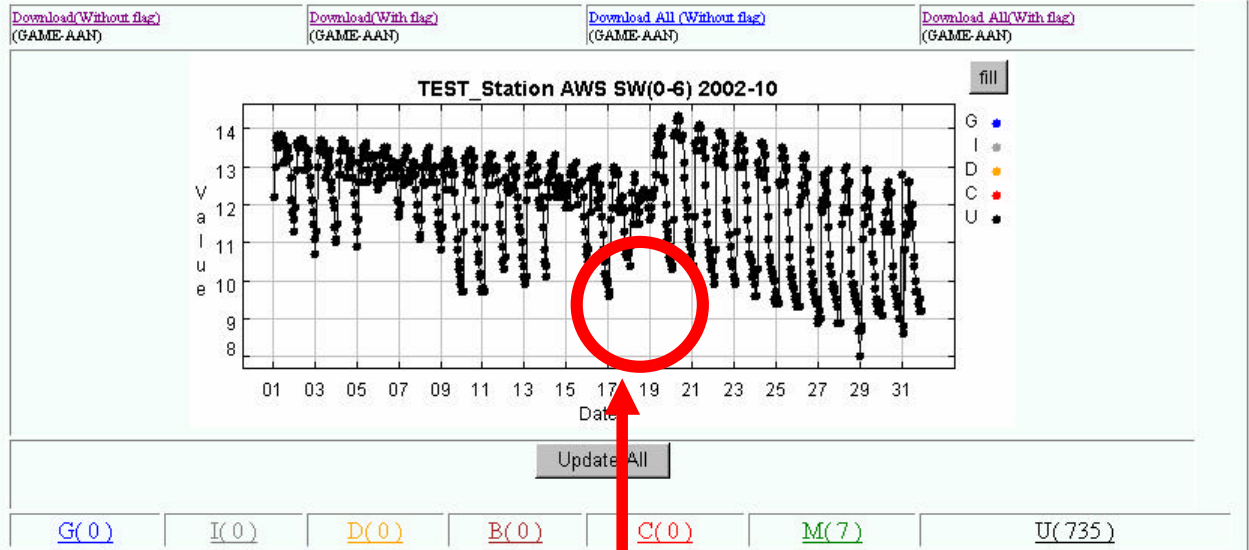
インターネット

Data Display and download

Quality Check and Update function



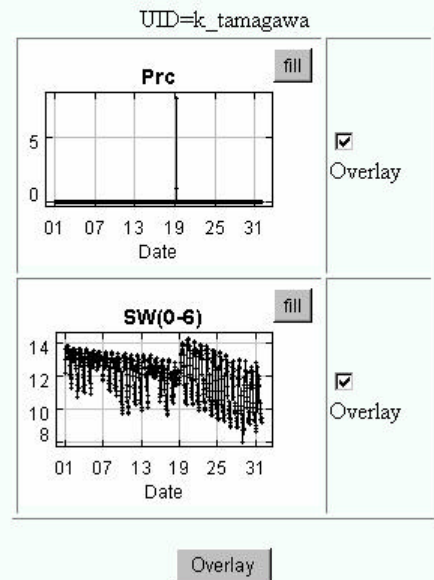
Obs. Station-Item	Obs. Element	Year-Month	
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10	Plot
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> Prc <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> fmax60(4.6) <input type="checkbox"/> prs		
<input type="button" value="BACK"/> <input type="button" value="FORWARD"/> Data Selection			



Click on the point

Update Flags [Update Value](#)

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



Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> Lu60 <input type="checkbox"/> Lu60 <input type="checkbox"/> T <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-50) <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff	

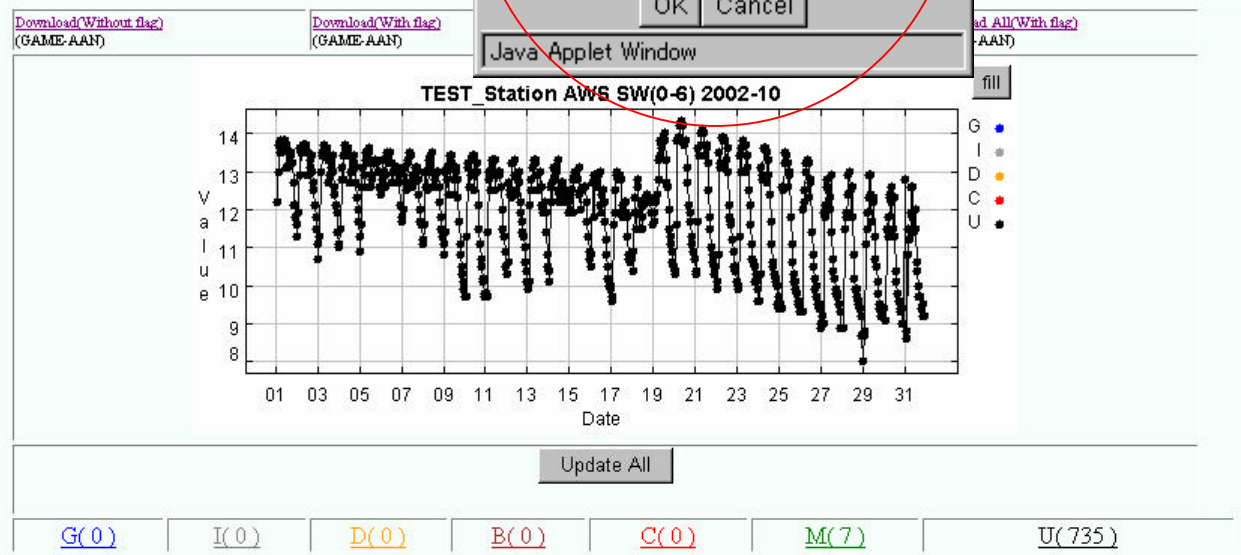
edit Data dialog

Dataset: **G**

y: 13.3

OK Cancel

Java Applet Window



UID=k_tamagawa

Prc Overlay

SW(0-6) Overlay

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	G
To:					07	23	59	U

Update

Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10

Reference Data: G(-7.5) G360(-2.5) G60(-7.5) G3(-2.5)

Lu60 Prc SW(0-6) Lu60 T

T(3.6) Tdd Tdd60 Ts(-10)

Ts(-20) Ts(-40) Ts(-560) Vacd Vacu Vacu60

ff(1.9) ff60(1.1) ff60(1.9)

edit Data dialog

Dataset: G

y: 13.3

OK Cancel

TEST_Station AWS SW(0-6) 2002-10

Update All

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

UID=k_tamagawa

Prc fill

Overlay

SW(0-6) fill

Overlay

Overlay

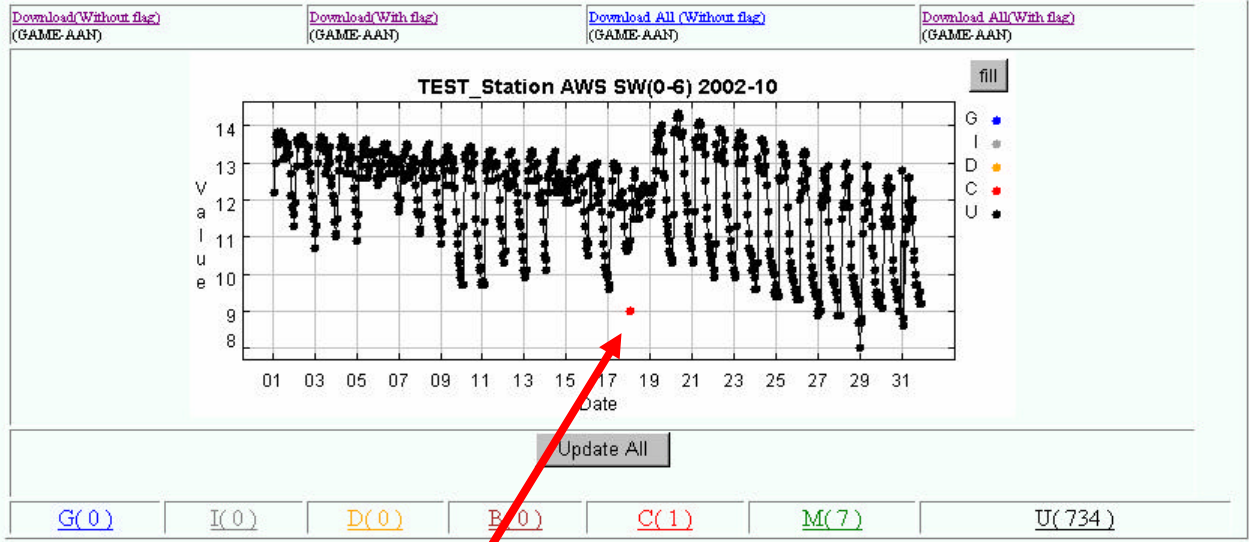
Update Flags [Update a value](#)

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

Update

Obs.Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	SW(0-6)	Updating Data: 2002-10
		Reference Data: <input type="checkbox"/> 2002-10 <input type="checkbox"/> 2002-11 <input type="checkbox"/> 2002-12 <input type="checkbox"/> 2003-1 <input type="checkbox"/> 2003-2 <input type="checkbox"/> 2003-3 <input type="checkbox"/> 2003-4
		<input type="button" value="BACK"/> <input type="button" value="FORWARD"/> Data Selection

Reference Window



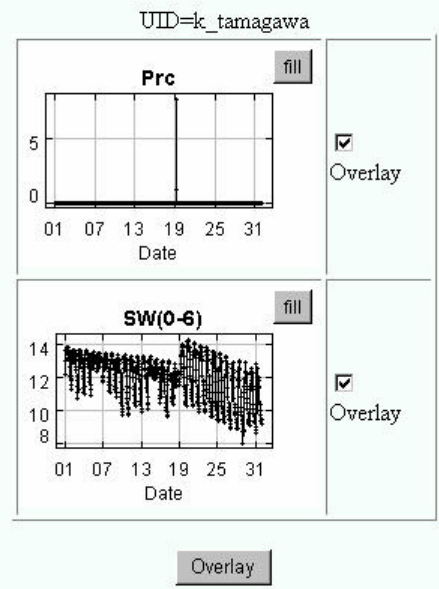
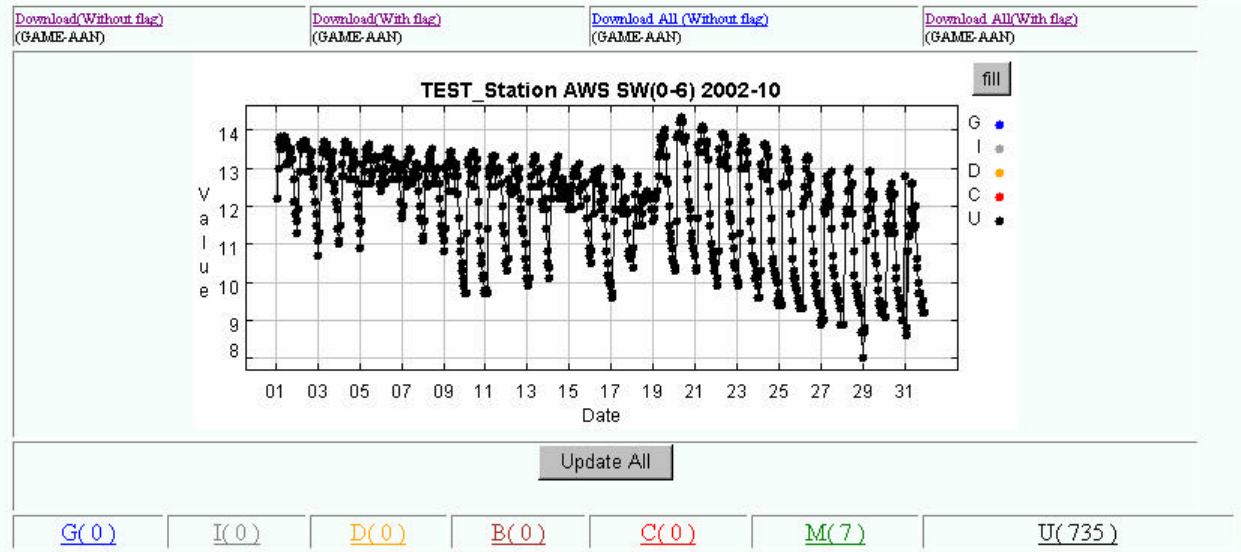
Updated Data
Update Window

[Eiji Ikoma](#)

[Eiji Ikoma](#)

Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> Prc <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> ffm60(4.6) <input type="checkbox"/> prs	

BACK FORWARD [Data Selection](#) Plot



Update the Flag by block

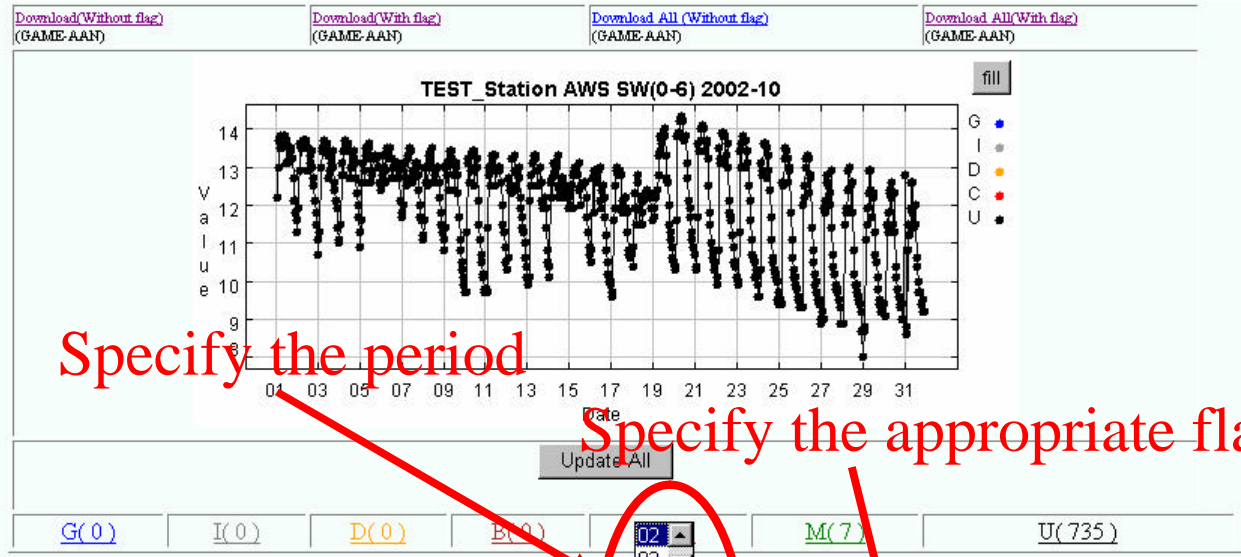
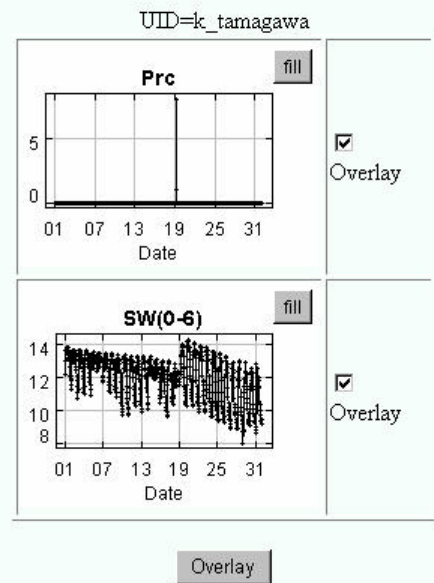
Update Flags [Update a value](#)

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

Update

Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> Prc <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> ffmaz60(4.6) <input type="checkbox"/> prs	

BACK FORWARD [Data Selection](#)



Update Fl:

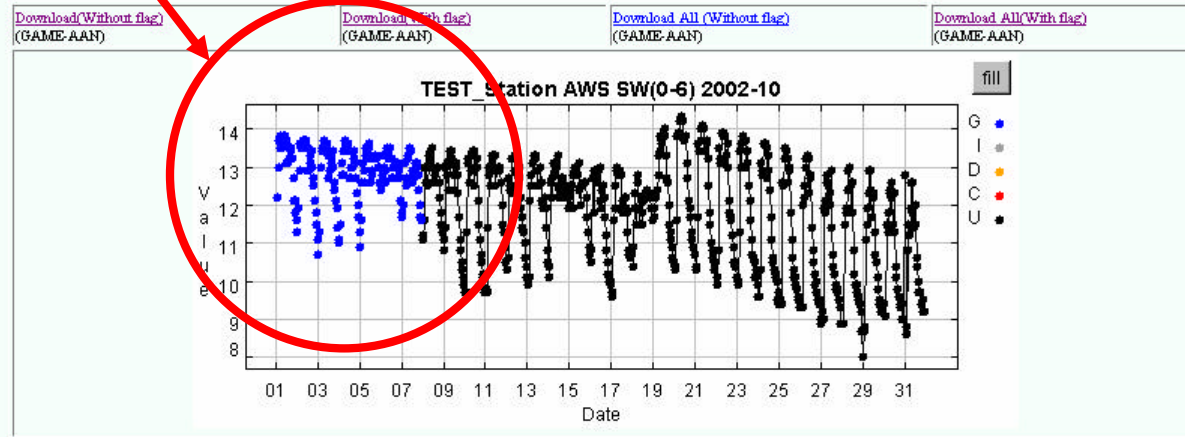
From:	Station	Item	Element	Year-Month	Hour	Minute	Flag	Update
To:	EOP-3	AWS	SW(0-6)	2002-10	00	00	G --> U	<input type="button" value="Update"/>

Update

Obs. Station-Item	Obs. Element	Year-Month
TEST_Station-AWS	Updating Data: SW(0-6)	2002-10
	Reference Data: <input type="checkbox"/> G(-7.5) <input type="checkbox"/> G1(-2.5) <input type="checkbox"/> G160(-2.5) <input type="checkbox"/> G2(-2.5) <input type="checkbox"/> G260(-2.5) <input type="checkbox"/> G3(-2.5) <input type="checkbox"/> G360(-2.5) <input type="checkbox"/> G60(-7.5) <input type="checkbox"/> H(0.5) <input type="checkbox"/> H(3.6) <input type="checkbox"/> Href(0.5) <input type="checkbox"/> Href(3.6) <input type="checkbox"/> Ld <input type="checkbox"/> Ld60 <input type="checkbox"/> Lu <input type="checkbox"/> Lu60 <input checked="" type="checkbox"/> Prc <input checked="" type="checkbox"/> SW(0-6) <input type="checkbox"/> SW(16-26) <input type="checkbox"/> SW(6-16) <input type="checkbox"/> Sd <input type="checkbox"/> Sd60 <input type="checkbox"/> Su <input type="checkbox"/> Su60 <input type="checkbox"/> T <input type="checkbox"/> T(0.5) <input type="checkbox"/> T(3.6) <input type="checkbox"/> Tdd <input type="checkbox"/> Tdd60 <input type="checkbox"/> Tdu <input type="checkbox"/> Tdu60 <input type="checkbox"/> Trad <input type="checkbox"/> Trad4 <input type="checkbox"/> Trad460 <input type="checkbox"/> Ts(-10) <input type="checkbox"/> Ts(-20) <input type="checkbox"/> Ts(-40) <input type="checkbox"/> Ts(-5) <input type="checkbox"/> Ts(-80) <input type="checkbox"/> Ts(0) <input type="checkbox"/> Tsd <input type="checkbox"/> Tsd60 <input type="checkbox"/> Tsu <input type="checkbox"/> Tsu60 <input type="checkbox"/> Vacd <input type="checkbox"/> Vacd60 <input type="checkbox"/> Vacu <input type="checkbox"/> Vacu60 <input type="checkbox"/> dT(0.5-3.6) <input type="checkbox"/> dd(4.6) <input type="checkbox"/> dd60(4.6) <input type="checkbox"/> ff(1.1) <input type="checkbox"/> ff(1.9) <input type="checkbox"/> ff <input type="checkbox"/> ff(4.6) <input type="checkbox"/> ff60(1.1) <input type="checkbox"/> ff60(1.9) <input type="checkbox"/> ff60(4.6) <input type="checkbox"/> ffmaz60(4.6) <input type="checkbox"/> prs	

BACK FORWARD [Data Selection](#)

Updated data



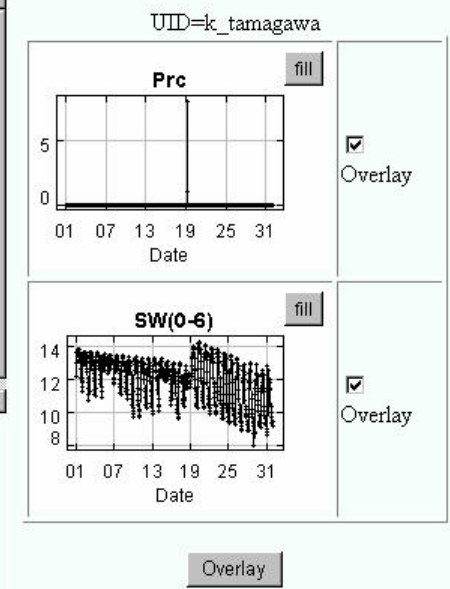
G(166)	I(0)	D(0)	B(0)	C(0)	M(7)	U(569)
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Number of each Flags

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
To:					07	23	59	G

Update



Flag Definitions

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

This system has;

1. **Web Interface** for **data visualization** , **data correction**, **alarming function** for some kind of error value and update the data and flag.
2. **Integrated Data Management function** to **unify** various observation data formats.

Current Specification:

Responsive to the data from;

- AWS : (Automatic Weather Station)
- Boundary Layer/ Flux Tower
- SMTMS : (Soil Moisture and Temperature Measuring System)



System organization

1. Hardware

CPU : Xeon 2.8GHz x 2

Memory: 2GB

HDD : 1TB

2. Software

OS : Linux kernel 2.4

Database: Postgres 7.3

HTTPD : apache 2.0