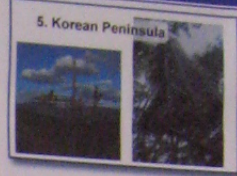
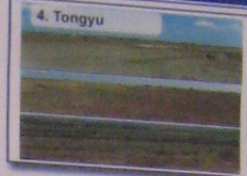
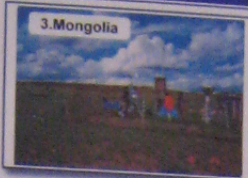
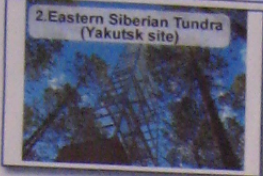
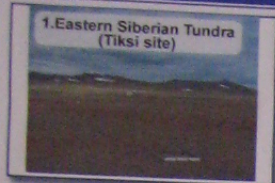


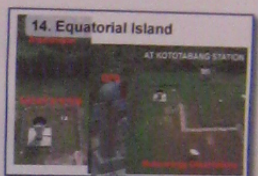
Introduction to the CAMP data management at CEOP Phase 1

Katsunori Tamagawa, Eiji Ikoma, Tetsu Ohta, Masaru Kitsuregawa, Toshio Koike
(The University of Tokyo)



The CEOP Asia-Australia Monsoon Project (CAMP) has 13 different reference sites in the Asian monsoon region. It covers the whole Asian Monsoon areas with diverse climates from Tundra to Tropical, and some high altitude zones. These reference sites are operated by individual researcher for his or her own research objectives. Therefore each site data has great varieties in observation elements, data format, and recorded interval, and so on. To utilize these data for any scientific researches, it usually requires some manual processes. It takes for a researcher a lot of time and energy to complete these processes. To reduce all the efforts and time for data checking and format conversion, the CAMP Data Center (CDC) has established an Internet based Quality Control (QC) system and data format conversion system. By using the QC system such as data selection, data plot, data update, flag update, the user corrects the values and the flags on-line and the data will be updated in the CDC database.

After finishing the data quality check procedure, the users can use their data for their own research by downloading through this QC system. At the same time the data is sent to the CEOP Data Archive Center in NCAR.

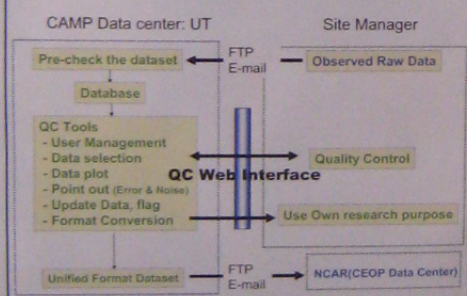
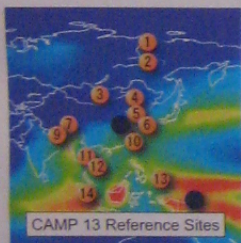


Reference Site Name	Region	Observer Name	Observation
Tiksi (Eastern Siberian Tundra)	Russia	Y. Tamagawa	Temp, Precip, Wind, Humidity
Yakutsk (Eastern Siberian Tundra)	Russia	Y. Tamagawa	Temp, Precip, Wind, Humidity
Mongolia	Mongolia	T. Ohta	Temp, Precip, Wind, Humidity
Tongyu	China	T. Ohta	Temp, Precip, Wind, Humidity
Korean Peninsula	Korea	T. Ohta	Temp, Precip, Wind, Humidity
Haenam (Korean Peninsula)	Korea	T. Ohta	Temp, Precip, Wind, Humidity
Tibet	China	T. Ohta	Temp, Precip, Wind, Humidity
Himalayas	Nepal	T. Ohta	Temp, Precip, Wind, Humidity
Northern South China Sea - Southern Japan	China/Japan	T. Ohta	Temp, Precip, Wind, Humidity
North-East Thailand	Thailand	T. Ohta	Temp, Precip, Wind, Humidity
Chao-Phraya River	Thailand	T. Ohta	Temp, Precip, Wind, Humidity
Western Pacific Ocean	Oceania	T. Ohta	Temp, Precip, Wind, Humidity
Equatorial Island	Oceania	T. Ohta	Temp, Precip, Wind, Humidity

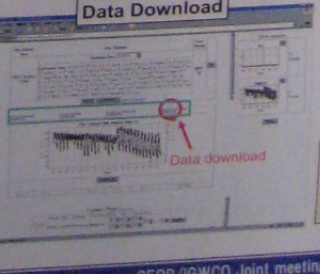
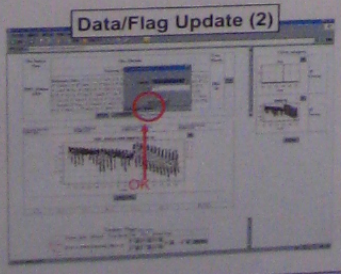
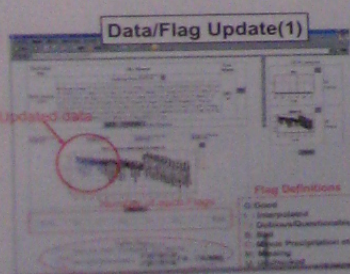
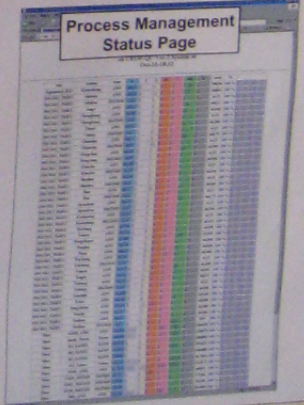
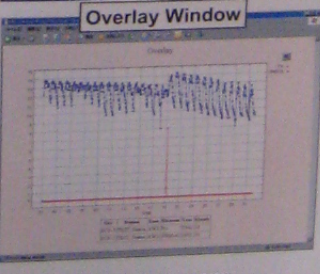
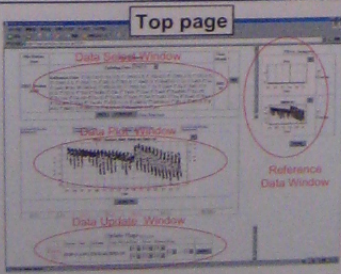
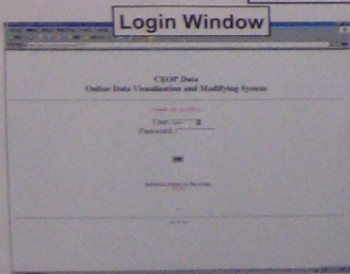
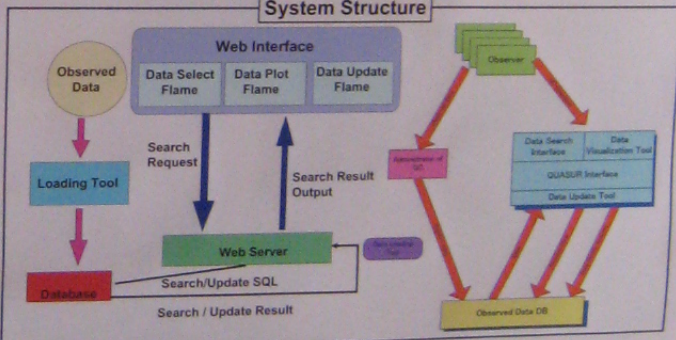
CAMP Quality Control Interface

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.

Flow of the CAMP Data Management



System Structure



- Current Specification
Responsive to the data from;
- AWS (Automatic Weather Station)
 - Boundary Layer Flux Tower
 - SMTMS (Soil Moisture and Temperature Measuring System)