## Development of Data Analysis Tools for CEOP Data Archive

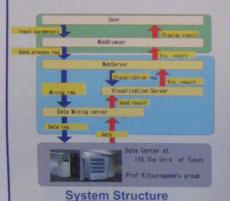
Eiji Ikoma, Masaki Yasukawa, Kenji Taniguchi, Toshio Koike, Masaru Kitsuregawa The University of Tokyo

## ■Visual Mining Tool for CEOP Data Archive

>Computation and Visualization of the correlative index with the targeted data among data with different spatial and temporal resolutions.

Detection of the phenomenon with Tel-connection (Correlativity with spatial remote area)

>Analysis implementation of rug correlativity (Correlativity among data distant in time: e.g. a cold summer in Japan at El Nino phenomenon)



Methods of processing



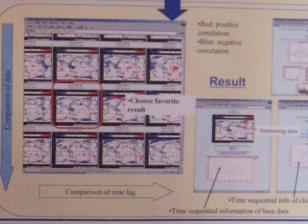
PURPOSE=Search the correlation between the base time sequential data and other various kind, area, time of \*Select Base data

Select target data to analyze the correlation

Define the period of correlation analysis(to cut-off the time sequential data)

Define the area of base date Define the time lag

> After processing, whether the system notice to user by e-mail or not



·To input Threshold of

correlation value for display the result Example: Mar. 11-20,1981

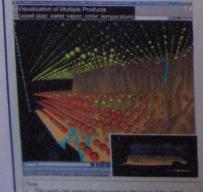
dataA→dataB,C,D Time lag: -1 ~+2

## ■Powered Visualizer for Three-dimensional AIRS Data Set

us to analyze three dimensional sensor data. Although lots of so far for two dimensional data sophisticated tools for three dimensional data has not well

another visualizing system for AIRS data set to examine the moisture flow.

·Visualization for the raw data



·Visualization of the arbitrary cross section

Overlay of the AIRS arbitrary cross section and the reanalysis data



