

Data Processing System for Validation of Atmosphere Products

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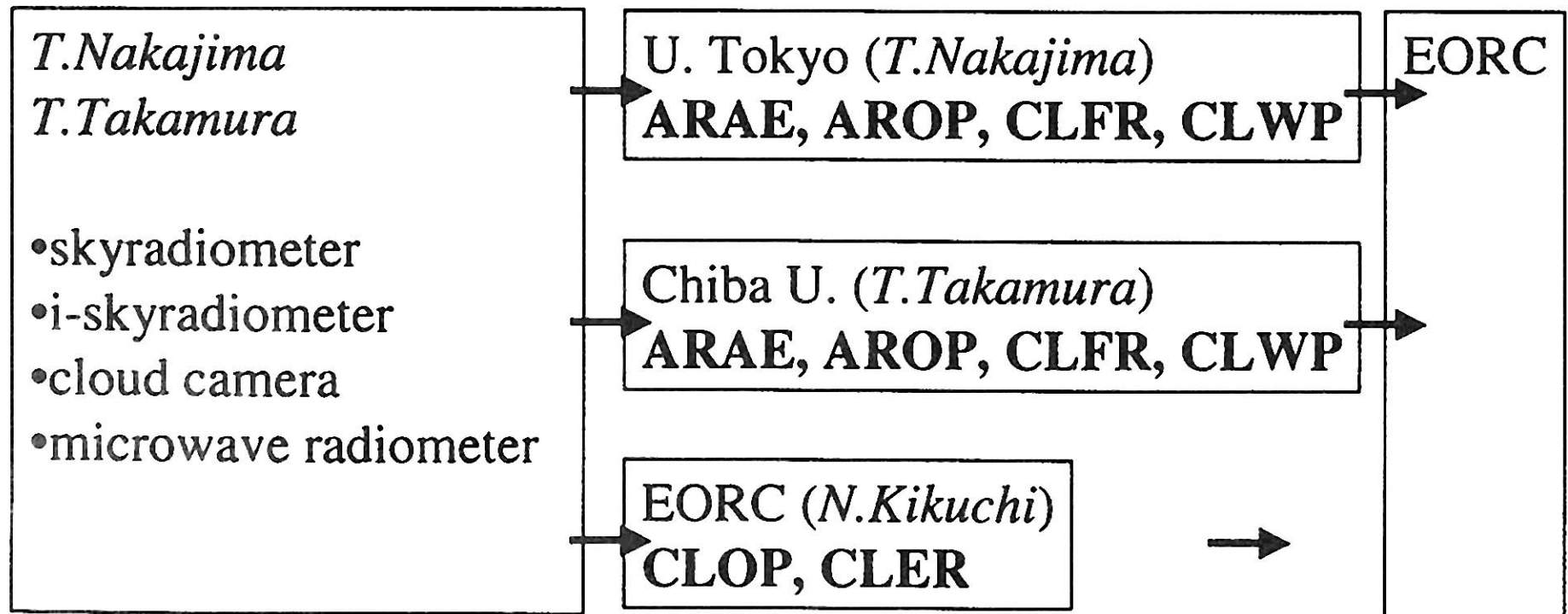
What Do We Validate ?

- Standard products are provided as segment data with temporal resolution of 4 days.
- BUT validation is done for instantaneous value.
- For this purpose, small size MUD (125 x 125 pixels) will be produced.

Basic Processes

- Acquisition of ground-truth (GT) data
- Analysis and quality-check
- Archival of GT data in EORC
- Comparison of satellite data with GT data
- Presented on GLI web page

SKYNET

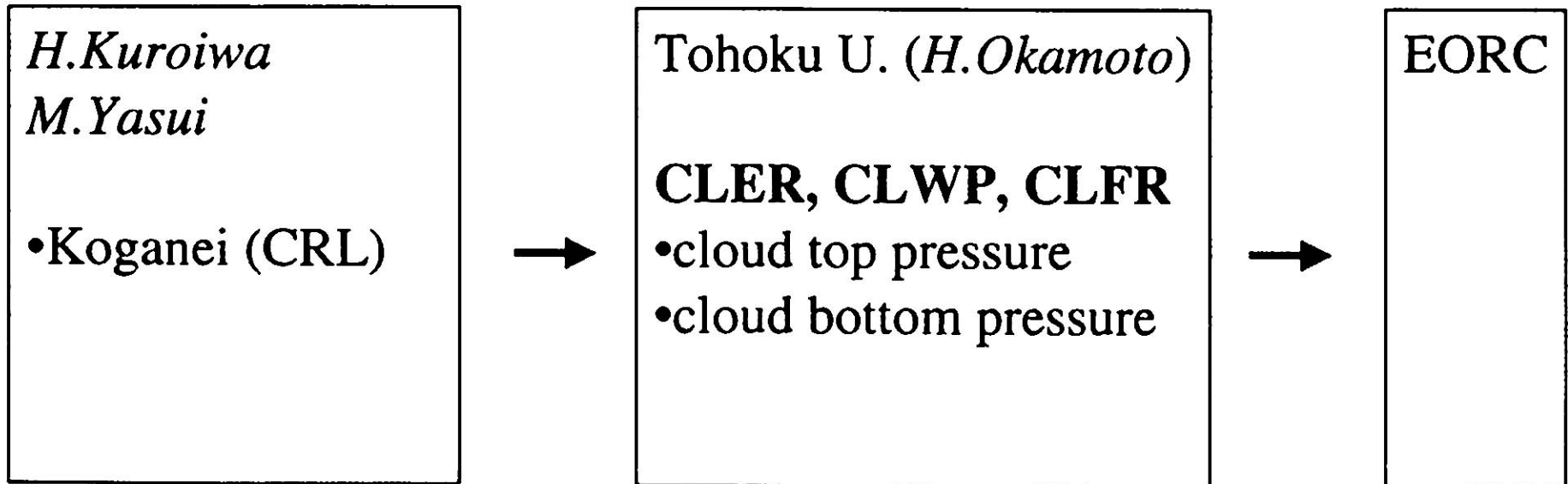


How to Get GT Data ?

- SKYNET
- Radar + Lidar
- Lidar
- AMSR
- Sonde data
- AERONET

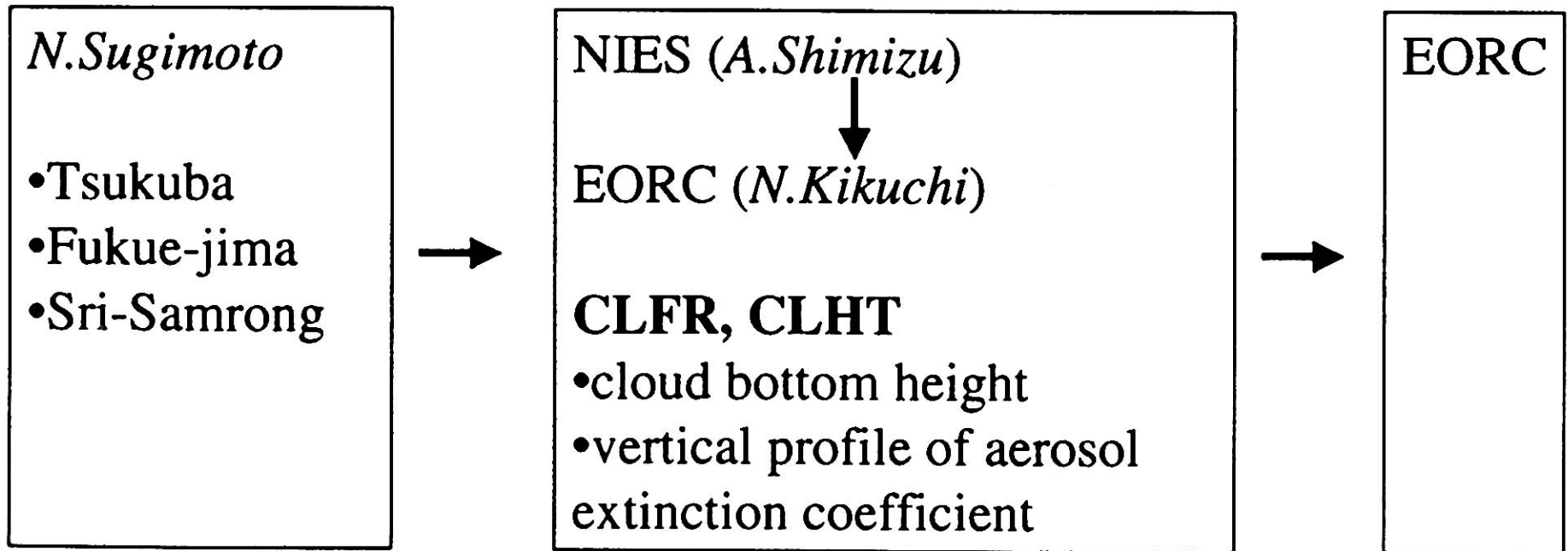
Thanks to cooperation with many investigators.

Radar + Lidar



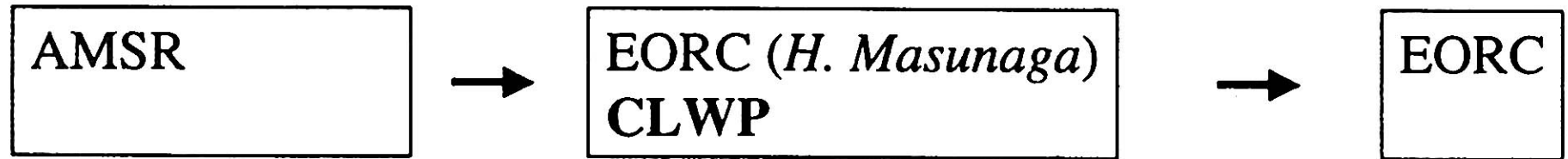
Schedule : On planning

Lidar

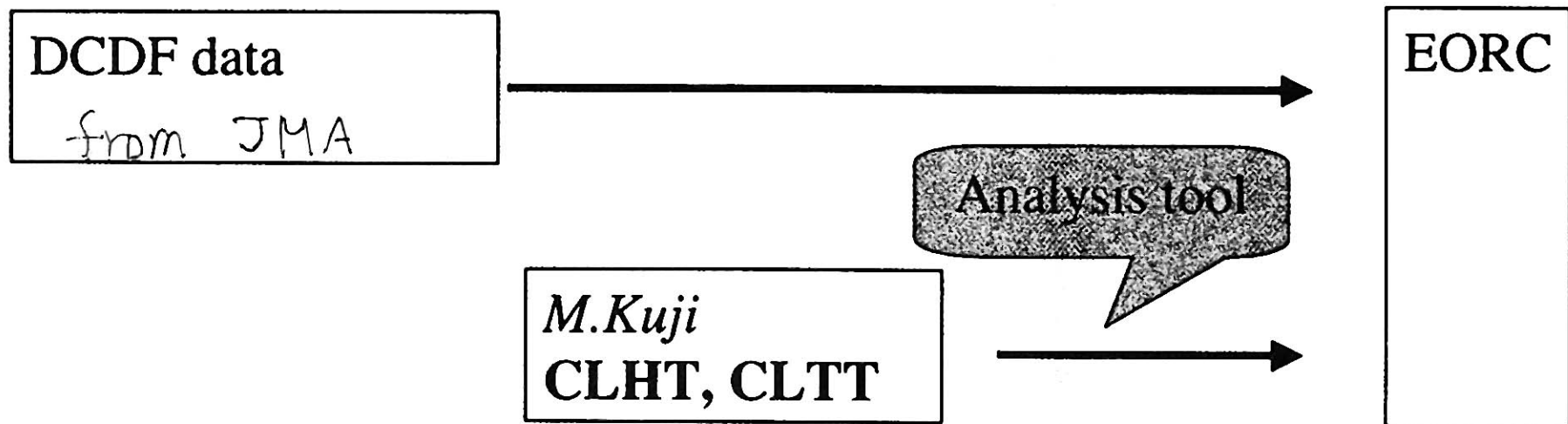


Schedule : On planning

AMSR

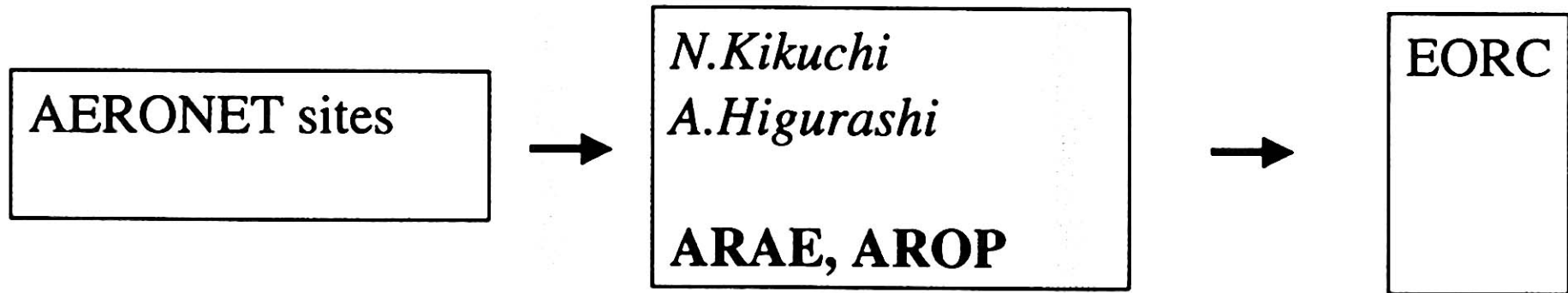


Sonde Data



Schedule : On planning

AERONET



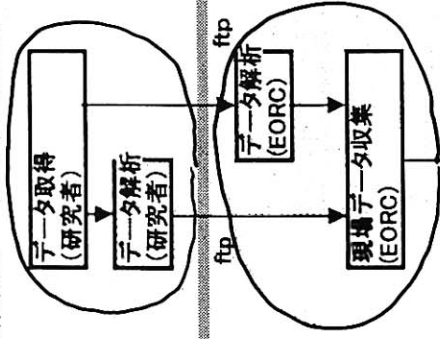
Schedule : On planning

Validation Data Flow

- Investigators are supposed to place GT data on their own FTP servers.
- EORC accesses to those FTP servers and try to find GT data once a day.
- If GT data are found, they are transferred to EORC and processed automatically to be uploaded on GLI validation web page.

Validation Data Flow

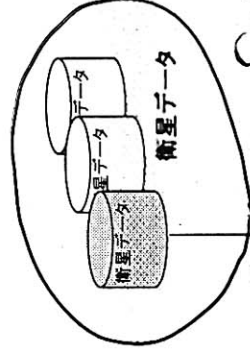
検証デ一タ公開/配布作業ﾌ｛ロ一 (2001年11月13日)



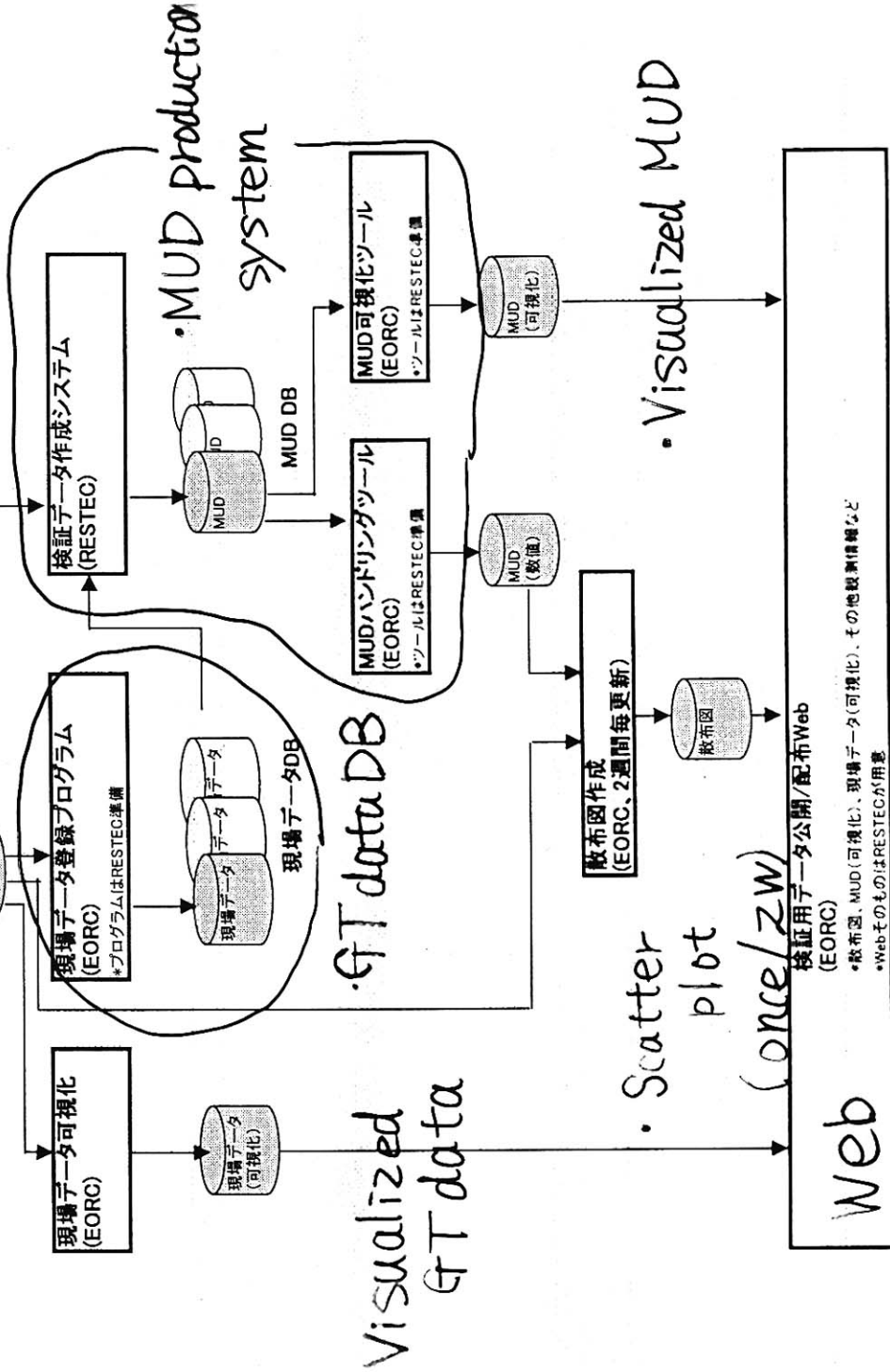
EORC外
EORC内

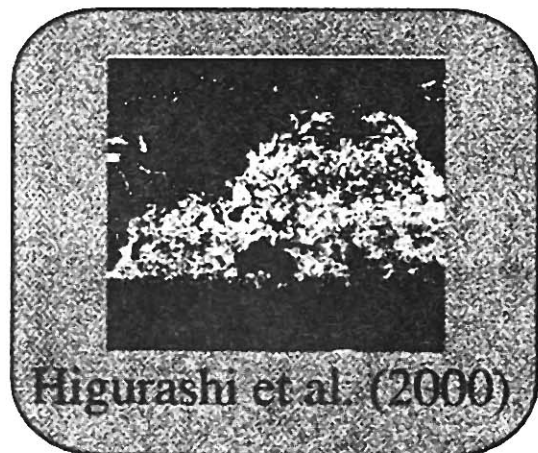
- observation
- Analysis
- Q C
- Data transfer to EORC
- Analysis (if needed)

- Unify data format



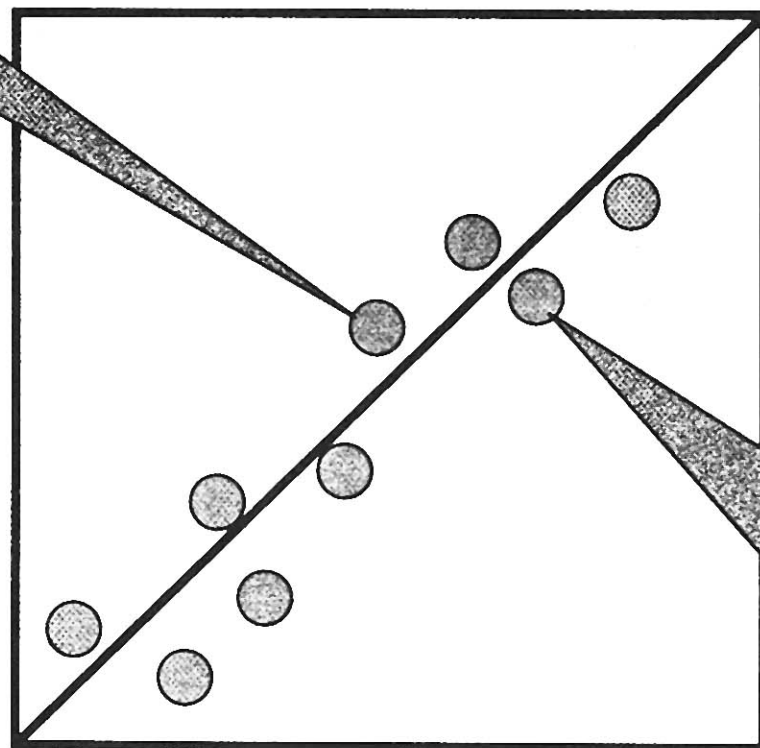
Satellite data



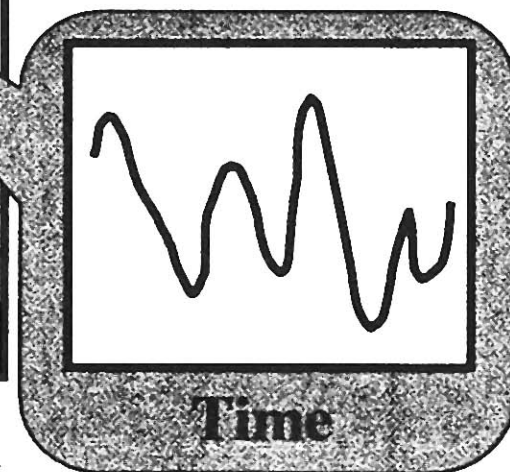


Scatter Plot

Satellite Data



Ground-Truth Data



Schedule

- Not yet fixed for GT data supply from observation sites other than SKYNET.
- First test run of our data processing system in January 2002 for SKYNET sites.
- Test run for the other sites will be done when GT data is available.