Taiwan Area Mesoscale Experiment (TAMEX) Data Management (II) Feng-lun Chiao Central Weather Bureau

ABSTRACT

TAMEX data contain surface data, sounding data, boundary layer wind data, ship data, satellite data, conventional radar data, VHF radar wind data, Doppler radar data, and the aircraft data. Except the Doppler radar data and aircraft data being processed by U.S. Data Management Center, the other conventional data have been compiled, validated, and archived by R.O.C. TAMEX Data Management Center.

As Mentioned in "TAMEX Preliminary Operation Plan", the management process of the conventional TAMEX Data was divided into four stages:

- data collection stage to collect the real time data and nonreal time data,
- data sorting stage to process the real time data in order to provide the Quick Look Data Set,
- 3. data validation stage to merge the real time and non-real time data, and check the errors,
- 4. further data validation and service stage.

All the tasks in the first and second stages and a part of the third stage were successfully finished in July 1988. The work in the other parts have been processed in this project.

The data validations in the third stage mentioned above were carried out by different examinations which include hydrostatic check, lapse rate check, wind check, and range check, etc.. Many errors were checked and corrected. Nevertheless, there must be some errors which remained uncorrected in the data since quantity of the data is very large. In order to provide Level II B data with fine quality, this project has collected all unsatisfactory reports from researchers and has executed further data validation by re-check and recomparison in detail.

All the further validated data have been archived on magnetic tapes in WMO format, FGGE format, and CWB format, and distributed to U.S. TDC, NTU, NCU, CCU, CCIC, CAF, CNY, CCAA and CWB.

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