



Advances in Meteorology

Special Issue on

Radar Meteorology and Hydrology

CALL FOR PAPERS

Radar is an important tool for weather prediction. Its role has also been extended to many hydrologic applications like the flash flood warning system. However, there are still many problems to be overcome for enlarging the applicability of radar. We do not think that all the problems related with the single-polarization (single-pol.) radar have been solved. Recent introduction of dual-polarization (dual-pol.) radar has added more problems. From traditional single-pol. C-band and S-band radars to recent dual-pol. X-band radars, we are facing so many different kinds of radars being operated for different purposes.

In particular, radar-related products are crucial for input to hydrologic applications. Quantitative estimation of rainfall from radar information is a very complex process. It involves many issues like the design of radar hardware, signal processing, quality control, detection and removal of bias, uncertainty analysis, data base, and so forth. Some hydrologic applications also require quantitative precipitation forecasting.

This special issue will bring together work from a variety of research areas, all of which involve the use of radar and/or radar data in the field of meteorology and hydrology.

Potential topics include, but are not limited to:

- ▶ Quality control (QC) and uncertainty analysis of radar signals
- ▶ Quantitative precipitation estimation (QPE)
- ▶ Quantitative precipitation forecasting (QPF)
- ▶ Design of radar network and operational issues
- ▶ Data base, data visualization, data merging, and assimilation
- ▶ Identification of storm structure
- ▶ Warning systems for flash flood, urban flood, and so forth
- ▶ Other meteorological issues and hydrologic applications

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envchul@korea.ac.kr

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marc.berenguer@crahi.upc.edu

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wenchau@ucar.edu

Satoru Oishi, Kobe University, Kobe, Japan
tetsu@phoenix.kobe-u.ac.jp

Gwangseob Kim, Kyungpook National University, Daegu, Republic of Korea
kings@knu.ac.kr

GyuWon Lee, Kyungpook National University, Daegu, Republic of Korea
gyuwon.lee@gmail.com

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