Current State of the Art of Weather Radar Remote Sensing

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Proposed Abstract

This contribution will describe the scientific and technological evolution of radar remote sensing of weather and its application to hazard management. In this spirit, starting with early developments, the presentation will elucidate the technological progression into the current state of the art, centered on today's polarimetric Doppler weather radars. In addition, the contribution will highlight the successes in the field and also the pending problems and issues awaiting further attention, particularly with reference to real-life application of radar in monitoring weather with special reference to severe weather events/ catastrophies. Overall, the presentation will dwell on the scientific character of the various aforementioned issues.