

Alain Protat (Bureau of Meteorology)

Session 7: Innovations in using observations

Title: The bistatic and mobile radar demonstration projects to enhance severe weather and bushfire applications

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In this presentation, we will highlight early results from two projects aimed at assessing the potential value of radar technology not currently used operationally at the Bureau to enhance our existing wind analysis and nowcasting system, and to develop new bushfire services. The bistatic receiver network project consists in deploying passive radar receivers around main radars of the operational radar network to improve the quality of our operational radar wind nowcasting service (SWIRL). The aim of the second project was to deploy a mobile X-band radar (owned by Monash University) around controlled burns in WA to demonstrate the value of such real-time high-resolution measurements for better and safer fire behaviour monitoring and management by fire agencies.