



Nowcasting of Convective Storms Based on Remote Sensing Data Fusion

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Message from the Guest Editors

Extreme weather events may have severe impacts to ecosystems, and pose an always increasing threat to society by causing disruption at many levels. To the present, there is still need for further research aiming to improve the prediction accuracy and the capacity to face such weather hazards in a changing climate.

Nowcasting - (i.e., 0-6 hour lead time forecasting) - provides the ideal framework to achieve such a goal, whereby near real-time atmospheric observations are an essential basis. Today's state of the art remote sensing technologies offer in fact a unique opportunity for weather science to address this challenging task: satellite platform, ground-based and airborne instruments provide a variety of improved remote sensing data in terms of temporal, spatial, spectral and radiometric resolution.

In this SI, scientific community members are invited to submit manuscripts dealing with recent advances in Nowcasting, in terms of new methods, techniques and/or identification of new sets of nowcasting predictors, mainly based on observational RS data integration; papers discussing combination of Numerical Weather Prediction methods and Nowcasting are also welcome.





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