



Monitoring of Thunderstorms using Radar

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Thunderstorms occur frequently during summertime in the Netherlands. Thunderstorms can cause large damage and impose a threat to people having outdoor activities. Not only intense rainfall, but also strong wind gusts, lightning and large hail are commonly associated with thunderstorms. KNMI operates two C-band Doppler radars, one located in De Bilt and the other one in Den Helder. These radars are used to monitor the development and movement of thunderstorms over the Netherlands. The radars can be used to measure both the reflectivity and the movement of a target. In the presentation an introduction to (the development of) thunderstorms will be given. Subsequently, some details on the way radar is used to monitor thunderstorms are highlighted. Finally, the development of a method to detect hail associated with thunderstorms using radar and model data will be discussed.