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Conference on European Tomadoes and Severe Storms

Using data from the Czech weather radar network for detection of convective storms

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The Czech Weather Radar Network, consisting of 2 weather radars (one of these is currently Doppler, second is under upgrade to Doppler), produces mainly the maximum reflectivity fields in pseudo-3D projection, used for detection of convective storms in the operational forecasting service. Furthermore, volume radar data analysis - storms tracking using radar precipitation accumulation estimates, reflectivity based detection algorithms (e.g.: VIL) and Doppler velocity processing development - are tested offline.

Significant convective storm cases (with heavy rainfall, hail or wind damage), illustrating the usage of the above methods, are presented. From the limited dataset, typical characteristics of convective storms on the territory of the Czech Republic are also given.

(Poster presentation is preferred.)