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Comparison of Atmospheric Transport Models (ATM) Used in Decision Support in the Framework of the Austrian Radiological Emergency Response Preparedness

The Zentralanstalt für Meteorologie und Geodynamik (ZAMG), the national Austrian Weather Service, is designated by the World Meteorological Organisation (WMO) as Regional Specialized Meteorological Centre (RSMC) Vienna (for backtracking only) and supports the CTBTO verification system with inverse atmospheric modelling activities on a global scale since its entry into operations. Besides, ZAMG supports the federal authorities with meteorological expertise, provides input data for other dispersion models and performs preliminary assessments of radiological dispersion in cases of a disaster event. In such a case, the Austrian Federal Crisis and Disaster Management (SKKM), which subordinates under the Austrian Ministry of the Interior, posesses the results of several atmospheric dispersion models as a profound basis for decision-making. In a recent study, different scenarios have been set-up and evaluated, using identical meteorological forcing for the atmospheric dispersion models, which are available during a radiological incident to the Federal Crisis and Disaster Management. The results of this study will be presented and discussed.

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