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The Austrian Emergency Response Modelling System TAMOS: Recent Developments and Evaluation

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Abstract. The Austrian Emergency Response Modelling System TAMOS has been developed to predict dispersion and deposition of radioactive material in case of an accident at a nuclear power plant. The dispersion calculations are done with the Lagrangian particle diffusion model FLEXPART (Stohl, 1997). Long-range forecasts are based on ECMWF model results, for incidents in the vicinity of Austria the mesoscale ALADIN forecasts are used as input since the year 2005. The long-range model was first evaluated within the European real time modelling exercise RTMOD (Pechinger et al., 1999) and further evaluated within the European ENSEMBLE project (Galmarini et. al., 2004,a,b,c). Case studies with the long-range and the mesoscale model version and ENSEMBLE results focussing on TAMOS are presented and discussed.