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Intercomparison Study Between Different Types of Models for the Dry Deposition of I-131

FLEXPART is a Lagrangian particle dispersion transport model which is originally designed for calculating the long-range and mesoscale dispersion of air pollutants from point sources. RODOS is also a Lagrangian particle dispersion model which has been specially designed to be used in the emergency planning. The main advantage of the RODOS model is that it can work on a very high resolution and at the local scale. Besides these models, we can also use other tools to calculate deposition in the vicinity of the release, e.g. Rules of thumb (Olyslaegers and Sohier, 2007). This presentation will show results of an intercomparison study between these designs and evaluate the effect of scale on the dry deposition values of modelled I131. As such it will contribute to the uncertainty quantification of dispersion modelling. Geert Olyslaegers and Alain Sohier, Rules of Thumb : Excel software calculation sheet to perform fast radiological impact assessment for atmospheric releases - Microsoft Excel 2007.

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