

TEST OF TURBULENT MIXING MODELS: PROGRAM MM-INTAS

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This website contains a Fortran 90 program that can be used in order to test turbulent mixing models (in a context of Lagrangian modeling). Three mixing models are implemented:

- IEM/LMSE model (Ref. [1], [2])
- Modified Curl's model (Ref. [3], [4], [5], [6])
- Mapping closure model (Ref. [7], [8])

Subroutines corresponding to the three above models were originally written by P. Nooren and H. Wouters. The implementation considers the general case of non-uniform particle weights.

Researchers can download the files (instructions below) and use the program MM-INTAS or use the mixing model subroutines in conjunction with their PDF code.

The folder MM-INTAS can be downloaded (as MM-INTAS.tar.gz or MM-INTAS.zip) and then the files that it contains can be extracted. Several 'readme' files give explanations on the code, on how to compile it and how to use it. Test cases are provided.

Please report any problems to B. Naud at bertrand@ws.tn.tudelft.nl.

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