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LES BY USE OF A NUMERICAL WEATHER PREDICTION MODEL

par Junshi ITO

(University of Tokyo – Atmosphere and Ocean Research Institute)

en salle Joël Noilhan

Abstract :

Extreme weather phenomena are simulated by a numerical weather prediction model whose resolution is fine enough to be regarded as a large eddy simulation (LES). These simulations can reveal turbulence structures associated with extreme phenomena. I will introduce some results in my recent works. An entire tropical cyclone is firstly treated in a LES, and boundary layer rolls and wall clouds are investigated. A quasi-steady linear convective system that causes a torrential rainfall is reproduced, cumulus clouds characteristics are examined. LES is also shown to be useful to predict turbulence near the surface at an airport.

Pour tout renseignement, contacter Y. Poirier (05 61 07 96 55) ou J.L. Sportouch (05 61 07 93 63)
Centre National de Recherches Météorologiques
42, Avenue G. Coriolis - 31057 Toulouse Cedex