

Implementation of a two-equation vertical turbulent mixing scheme in a mesoscale atmospheric model



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(Marquis Gusikowski)

IMPLEMENTATION OF A TWO-EQUATION VERTICAL TURBULENT MIXING SCHEME IN A MESOSCALE ATMOSPHERIC MODEL



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No binding. Book Condition: New. This item is printed on demand. Original publisher: Boulder, Colo. : U. S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Earth System Research Laboratory, Physical Sciences Division, 2008. OCLC Number: (OCoLC)729894383 Subject: Dynamic meteorology. Excerpt: . . . 2 3. The Closure Constants of the $q-l$ Equation The physical meaning of the length scale is of fundamental importance to the simulation of vertical turbulent mixing in the ABL. In the literature on the simulation of vertical turbulent mixing in the ABL, the length scale l is most often interpreted as the characteristic length scale of the largest energy-containing eddies (see, e. g. , Moeng and Wyngaard 1989 and Wyngaard 1992). It is directly related to the distance that these eddies travel in the vertical direction before they loss their initial TKE due to turbulent mixing and buoyancy effects. In some references, the length scale is also linked to the so-called integral length scale (see, e. g. , Kantha and Clayson 2000, p. 16). Strictly speaking, the integral length scale is associated with unbounded isotropic turbulence and is three-dimensional. The length scale l discussed here is associated turbulence in the atmospheric boundary layer, which is much more complicated than isotropic turbulence due the existence of thermal stratification in the vertical direction. The nature of the closure as described in (1)-(5) requires that the direction of l be along the vertical wind shear and thermal gradient. The closure constants in the length-scale equation must be determined empirically. Baumert and Peters (2000) indicate that the original values proposed by Mellor and Yamada (1982), and later adapted by Kantha and Clayson (1994), are not able to simulate the most basic properties of weakly...



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