

Integrated Cloud Water: The version of MM5 employed here has, as prognostic fields, mixing ratios of four hydrometeor species, one of them being cloud water, defined as cloud water droplets of diameter approximately less than 100-200 microns (0.1-0.2 mm). The integrated cloud water represents the vertically-integrated amount of cloud water, given as a depth of water over the area of the grid cell in millimeters (mm), contained within the entire MM5 grid column from the surface to the model top. The quantity takes into account the area of the grid cell as well as the densities of liquid water and air, and the variation of the density of air with height in the atmosphere. As such there can be a scale dependence in the absolute values of this parameter over various model nests and should be interpreted with this fact in mind.