PREFACE

The MM5 tutorial class is sponsored by the Mesoscale and Microscale Meteorology Division (MMM) at the National Center for Atmospheric Research . The class is offered twice per year by the Mesoscale Prediction Group of MMM. The content of this tutorial note, together with other documentation, are available on the World Wide Web (URL: *http://www.mmm.ucar.edu/mm5/doc.html*). The general information regarding the MM5 modeling system, model applications, and user support can also be found on the WWW MM5 page (URL: *http://www.mmm.ucar.edu/mm5/mm5-home.html*).

In this volume, Chapters 1, 2, 4, 5, 6, 7, 8, 9, and 12 are revised. Among them, Chapter 4 and 5 are significantly rewritten to reflect the latest changes in Terrain program and the newly released REGRID program. The revision is geared toward more general description of the use of the modeling system programs, moving away from Cray specifics. At the end of each program description chapter is the general workstation script to run the program. All decks for Cray usage are gathered together and placed in Appendix D. A new chapter, MM5 Version 3, is added to describe the major changes in the soon-to-be released Version 3 modeling system programs. This is intended to introduce Version 3 to users and help users to migrate from Version 2 to Version 3.