The University of Michigan was a founding member of UCAR in 1959. Research and education in atmospheric sciences is located in the Department of Atmospheric, Oceanic and Space Sciences (AOSS). The department offers both undergraduate and graduate degrees. For undergraduates, four concentrations within their Earth System Science and Engineering BSE degree are offered – in Climate Science, Climate Impact Engineering, Meteorology, and Space Weather, and a fifth concentration in Climate Impact Engineering will soon be added. The department also offers an MS and a new MEng program as well as a PhD program. In the last five years (2005-2009), the department granted 37 PhD degrees, 75 MS & MEng degrees, and 71 BSE degrees. Although some fraction of the graduate degrees were in the more space science-related areas of solar physics and laboratory astrophysics, the majority are in the atmospheric and space weather disciplines that NSF formally considers to be a part of "atmospheric sciences." In fall of 2009, there were a total of 41 undergraduate and 105 graduate students. Thus, they are actively contributing to the education of the next generation of atmospheric scientists.

The department has 29 tenured and tenure-track faculty and 28 research faculty in the fields of atmosphere-biosphere interactions; atmospheric chemistry and air quality; clouds and precipitation; atmospheric dynamics; climate, paleoclimate, and climate modeling; planetary atmospheres; aeronomy; magnetospheric, ionospheric, and thermospheric physics; space weather; and radiative transfer, remote sensing and instrumentation, as well as several other fields of space science. Since their last UCAR membership renewal, they have hired several faculty – i.e., the department is growing. The faculty actively publish in the top peer-reviewed journals of their fields (based on information in their application and more recent searches for many of the more senior faculty whose publication lists in the application had not been updated for 3 to 7 years). In addition, faculty have built and flown more than 35 instruments on various earth and space platforms and have active national and international collaborations.

The department’s faculty and students have access to various facilities (Space Physics Research Laboratory, Biological Station, Biosphere-Atmosphere Research Training Program, Air Quality Laboratory, Camp Davis, Center for Space Environment Modeling, Center for Radiative Hydrodynamics). They have about $19 million in research funding from a variety of agencies, including NSF, NASA, DOE, DoD, and NOAA.

The University of Michigan faculty remain active in UCAR governance, collaborative research, and programs, facilities, and activities, including being members of the NCAR Atmospheric Chemistry Division Directory Search Committee (1999-2000); the NCAR Advanced Studies Program Review Committee (2001), the U.S. Nitrogen Science Plan Workshop Organizing Committee for the NCAR Biogeosciences Workshop (2003); Advisory Panel for The Institute for Integrative and Multidisciplinary Earth Studies (TIIMES) of NCAR (2008), the NCAR CESM Advisory Board (2005-2011), and the NCAR Affiliate Scientists Program (until 2012).

The UCAR Membership Committee concludes that the membership criteria are fulfilled, and recommends to the Members’ Representatives that the membership of The University of Michigan be continued as provided by the bylaws.