

ADEME MEKONNEN
Department of Physics
Applied Science & Technology PhD Program
North Carolina A & T State University
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Professional preparation:

Addis Ababa University, Addis Ababa, Ethiopia; BS (Physics), 1986
India Meteorological Department, Pune, India; Meteorology Advanced Diploma, 1990
University of Reading, Reading, UK; MS (Weather, Climate and Modeling), 1998
University at Albany, Albany, NY; PhD (Atmospheric Sciences), 2008

Appointments:

- July 2017-present: **Associate Professor**, Department of Energy and Environmental Sciences, NC A & T State University, Greensboro, NC.
- August 2011-June 2017: **Assistant Professor**, Department of Energy and Environmental Sciences, NC A & T State University, Greensboro, NC.
- May 2008 – July 2011: **Research Associate**, NOAA-CREST Institute, The City College of New York/ CUNY, New York, NY
- January-April 2008: **Postdoctoral research associate**, Department of Earth and Atmospheric Science, University at Albany, Albany, NY.
- 1997-2000: **Senior meteorologist (Research)**, Ethiopian Meteorological Services Agency, Addis Ababa, Ethiopia.
- 1996-2000: **Meteorologist I (Research)**, Ethiopian meteorological Services Agency, Addis Ababa, Ethiopia.

Relevant Publications:

- **Mekonnen, A** and W. B. Rossow, 2017: “The Interaction Between Convective Systems and Easterly Wave Activity over Africa: Convective Transitions And Mechanisms”, *Mon. Wea. Rev.* (under review).
- Semunegus, H., **A. Mekonnen**, and C. Schreck, 2017: “Characterization of Convective Systems and their Interaction with African Easterly Waves”. *Int. J. Climatol.* DOI:10.1002/joc.5085.
- Thiaw, W., S. Janicot, E. Bekele, K. H. Cook, B. Fontaine, **A. Mekonnen**, O. Ndiaye, H. Tamo, and E. Vizzy, 2017: “**Subseasonal Forecasting**” in “Meteorology of Tropical West Africa: The Forecasters’ Handbook”, D.J. Parker & M. Diop-Kane (eds.). Wiley-Blackwell Publishers.
- **Mekonnen, A.**, and C. Thorncroft, 2016: “On mechanisms that determine synoptic time scale convection over East Africa”. *Int. J. Climatol.* DOI: 10.1002/joc.4614.
- Rossow, W. B., **A. Mekonnen**, C. Pearl and W. Goncalves, 2013: Tropical Precipitation Extremes. *J. Climate*, 26, 1457-1466.

Educational activities:

- Undergraduate courses taught: Weather and Climate Studies, Atmospheric Remote

Sensing, Dynamic Meteorology, Meteorological Analysis Lab

- Graduate courses taught: Climate Variability and Predictability, Tropical Meteorology, Research Proposal Writing, African monsoon Climate
- Courses taught at WMO Class II and III training Center in Ethiopia: Climatology, Statistical Application in Meteorology, General Meteorology

Synergistic activities:

- General Secretary, Ethiopian Physics Society - North America (2013 –2015).
- Selection committee member for the American Meteorological Society Max Eaton Award Committee at the 30th Conference on Hurricanes and Tropical Meteorology, Ponte Vedra Beach, FL (15-20 April 2012).
- Served as chairman for Section 11D-Convection III at the AMS 28th Conference on Hurricanes and Tropical Meteorology, New Orleans, Louisiana (20-24 Jan. 2008).
- Scientific Coordinator, Ethiopian Climate Change Country Study Project (1994-1998).
- Secretary, Ethiopian Ozone committee (1995-1997).