

Edward Evans (Ward) Hindman

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Education:

B.Sc., Meteorology, University of Utah, 1965
M.Sc., Atmospheric science, Colorado State University, 1967
Post-graduate oceanography, Old Dominion University, 1969-71
Ph.D., Atmospheric science, University of Washington, 1975



Research positions:

Meteorology Research, Inc., Altadena, California, 1961-64
Colorado State University, Fort Collins, Colorado, 1964-67, 1979-84, 2005-06
Navy Weather Research Facility, Norfolk, Virginia, 1967-71
Naval Weapons Center, China Lake, California, 1971-79
Tribhuvan University, Kathmandu, Nepal, 1995-96

Dr. Hindman has developed meteorological instruments and conducted cloud physics research using the instruments in fogs, thunderstorms and hurricanes. Currently he is conducting research on the effects of human activities on physical and chemical properties of clouds. The field portions of the studies have occurred in Colorado (where he founded Storm Peak Laboratory in 1981), at sea and in the Himalayas. He has mentored numerous students during these field studies. He developed at CCNY a computer laboratory for the acquisition and analysis of real-time meteorological, oceanographic and solid-earth data and for numerical modeling studies. During his 1995/96 sabbatical, he conducted a unique, trans-Himalayan, international expedition to Mt. Everest to study the weather of the region and to determine the feasibility of ascending Everest with a sailplane. During his 2005/06 sabbatical, he investigated at Colorado State University the diagnosis and prediction of soaring flight by combining the CSU Regional Atmospheric Modeling System (RAMS) and the Swiss-developed "TopTask" soaring flight system.

Teaching positions:

Associate Professor, Oceanography Department, U. S. Naval Academy, 1984-87
Associate Professor, Physics and Atmospheric Sciences Department, Drexel University, 1988
Associate Professor, Earth and Atmospheric Sciences Dept., The City College of New York, 1988-1994
Professor, EAS Dept., The City College of New York, 1994-2007, emeritus 2007

Awards:

Eagle Scout, 1960
First place, American Meteorological Society Macelwane Undergraduate Award, 1965
Best Overall Rider, National Collegiate Athletic Association Intermountain Cycling Championships, 1966
Superior Achievement, Naval Weapons Center, 1978
CCNY President's Innovation and Excellence in Teaching, 1993
Explorers Club Flag Award, Trans-Himalayan Meteorology Expedition, 1995
Federation Aeronautic International Gold Badge (two diamonds), 1998
Fellow, American Meteorological Society, 2003
Paul E. Tuntland Award, Soaring Society of America, 2003
Explorers Club Flag Award, Student Expeditions in the Colorado Rockies., 2004
OSTIV Diploma for best meteorological paper at 27th Congress, 2006

Service:

Certified consulting meteorologist, American Meteorological Society
Certified weather modification manager, Weather Modification Association
Commercial glider pilot, US Federal Aviation Administration, 1020 hours total time
Former President, Church Council, Our Savior's Atonement Lutheran Church, New York City
Member and former treasurer, Cornerstone Choral, New York City
Member, Larimer Choral, Ft. Collins CO, (2005-06)
Vice Chair (1999-01), Chair (2001-2004), Atmospheric Sciences Section, New York Academy of Sciences, NYC
Liaison, Earth and Environmental Sciences, PSC-CUNY Research Awards (1998-01)
Vice-Chair, University Committee on Research Awards, CUNY (2000-01)
Chief editor, Organisation Scientifique et Technique Internationale du Vol à Voile (OSTIV) (2006-present)

Peer reviewed publications last five years:

Hindman, E. E., and B. P. Upadhyay, 2002: Air pollution transport in the Himalayas of Nepal and Tibet during the 1995-1996 dry season. *Atmos. Environ.*, **36**, 727-739.

- Hindman, E. E., M. C. Meyer, S. D. Gedzelman and T. J. Bandosz, 2002: Acidic cloud episodes in the northern Colorado Rockies: inadvertent weather modification? *J. Weather Modif.*, **34**, 18-30.
- Gedzelman, S., J. Lawrence, J. Gamache, M. Black, E. Hindman, R. Black, J. Dunion, H. Willoughby and X. Zhang, 2003: Probing hurricanes with stable isotopes of rain and water vapor. *Mo. Wea. Rev.*, **133**, 1111-1127.
- Hindman, E. E., 2005: Estimates of the vertical transport of urban aerosol particles. *Urban aerosols and their impacts: Lessons learned from the WTC tragedy*, Eds. J. Gaffney and N. Marley, Am. Chem. Soc. Symposium Series 919, ACS Washington D. C., 308-320.
- Hindman, E. E., R. D. Borys, D. H. Lowenthal and N. Phillip, 2006: Long-term, wintertime aerosol, cloud and precipitation measurements in the northern Colorado Rocky Mountains, USA, *Atmos. Rsh.*, **82**, 194-202.
- Hindman, E. E., S. M. Saleeby, O. Liechti and W. R. Cotton, 2007: A meteorological system for planning and analyzing soaring flights in Colorado USA. *Technical Soaring*, **31**, 68-78.

Professional and educational articles last five years (not peer-reviewed):

- Hindman, E. E., 2002: The "Explorer" sailplane. *The Explorers Newsletter*, **34/2**, p. 10.
- Hindman, E. E., O. Liechti and P. Lert, 2002: Soar Mt. Everest!. *Tech. Soaring*, **26/4**, 114-123 (printed January 2005).
- Hindman, E. E., 2003: Interview and 10 May 96 Everest weather time-lapse film, *Everest: Death Mountain*. ABC News Productions, NYC, NY (Aired on the *Discovery Channel*, 2000 EDT, 29 May 03).
- Hindman, E. E., S. D. Gedzelman and K. Kong, 2004: A weather station and computer laboratory. On *UCAR Unidata Program Website*, 10 August 2004, (my.unidata.ucar.edu).
- Hindman, E. E., 2004: An American pilot in Aspres-sur-Buech, France, July 2004. *Aufwind* [Swiss AFG Club publication], pp. 1-14., October 2004.
- Hindman, E. E., R. A. McAnelly, W. R. Cotton, T. Pattist and R. M. Worthington, 2004: An unusually high summertime wave flight. *Tech. Soaring*, **28/4**, 7-23 (printed May 2006) (2003 SSA Tuntland Award, 2006 OSTIV Diploma).

Meeting articles last five years (not peer-reviewed):

- Hindman, E. E., W. R. Cotton, R. McAnelly, T. Pattist and R. M. Worthington, 2003: Analyses of an unusually high summertime wave flight. Presented at the XXXVII OSTIV Congress, 5 August 2003, Leszno, Poland (2003 Tuntland Award, SSA).
- Hindman, E. E., 2003: Estimates of the vertical transport of urban aerosol particles. In *Extended abstracts, Urban aerosols and their impact: Lessons learned from the World Trade Center tragedy* Session, Division of Environmental Chemistry, 226th American Chemical Society National Meeting, 10 September 2003, New York, NY.
- Hindman, E. E., R. D. Borys and D. H. Lowenthal, 2004: Long-term cloud droplet and condensation nucleus measurements in the northern Colorado Rockies, USA. In *Preprints, 14th International Conference on Clouds and Precipitation*, 18-23 July 2004, Bologna Italy, pp. 100-103.
- Wee, Hunjung (Maria), E. E. Hindman and R. D. Borys, 2004: Wintertime aerosol particle nucleation events in the northern Colorado Rockies, USA. Presented at *8th Intl. Global Atmospheric Chemistry Conference*, Christchurch, NZ, 4-9 September 2004, in Abstract CD.
- Hindman, E. E., 2004: Proposal to the OSTIV Meteorological Panel for "TopTask" support at the 2005 pre-World's and 2006 World Gliding Championships. DLR, Oberpfaffenhofen, Germany, 20 November 2004.
- Hindman, E. E., R. D. Borys, D. H. Lowenthal and N. A. Phillip, 2005: Long-term, wintertime aerosol, cloud and precipitation measurements in the northern Colorado Rocky Mountains, USA. Presented at the Weather Modification Association Annual Meeting, 27-29 April, Washington, D. C.
- Hindman, E., W. Cotton and O. Liechti, 2005: Merging the Regional Atmospheric Modeling System (RAMS) and "TopTask" system to improve the prediction of soaring flight in the USA. Oral presentation to the OSTIV Meteorological Panel, 16-18 September, Istanbul, Turkey.
- Hindman, E. E., R. D. Borys, D. H. Lowenthal and N. A. Phillip, 2005a: Aerosol variations and snowfall rates in the northern Colorado Rocky Mountains, USA. Oral presentation at the semi-annual Weather Modification Association Meeting, 21-24 September, Athens, Greece.
- Hindman, E., D. Matthew, M. Lopez, K. Kong and R. Borys, 2005: Mid-morning behavior of condensation nuclei at a mountain-top site during the wintertime. Poster presentation at the 24th Annual Conference, American Association for Aerosol Research, 17-21 October 2005, Austin TX.
- Gedzelman, S., H. Glickman, B. Gross, E. Hindman, K. Kong, S. Mahani and F. Moshary, 2006: Mesoscale weather features in NYC revealed by CCNY lidar. Presented at the American Meteorological Society Annual Meeting, 6th Symposium on the Urban Environment, 29 January–2 February 2006, Atlanta, Georgia.
- Hindman, E. E., 2006: Meteorological support for the 29th FAI World Gliding Championships, 5-17 June 2006, Eskilstuna Sweden. Presented at USA Soaring Team Meeting, Soaring Society of America Convention, 2 February 2006, Arlington TX.
- Hindman, E., S. Saleeby, O. Liechti, and W. Cotton, 2006: A system for planning and analyzing soaring flights in Colorado USA. Presented at the OSTIV Congress, June 2006, Eskilstuna, Sweden.
- Rosoff, Y, K. Kong and E. Hindman, 2006: Numerical simulations of diurnal winds and moisture transport in the Mt. Everest area of the Nepal Himalayas: Initial findings. Oral presentation at 12th Am. Meteor. Soc. Mt. Meteorology Conf., Santa Fe NM, 1 Sept 2006.
- Hindman, E. E., 2006: *Technical Soaring*: past, present and future. Presented at the OSTIV Meteorological Panel Meeting, Berlin Germany 24-26 November 2006.
- Hindman, E. E., L. M. M. Boermans and B. S. Smith, 2007: OSTIV-a 'cradle' of soaring history. Presented at the USA National Soaring Museum "4th Soaring History Symposium", 4-5 May 2007, Elmira NY (nsm@soaringmuseum.org).
- Hindman, E. E. and R. D. Borys, 2007: Long-term, wintertime, mountain-top cloud measurements. In *Program and Abstracts, Fourth International Conference on Fog, Fog Collection and Dew*, 22-27 July 2007, La Serena, Chile, pp. 57-60.
- Hindman, E. E., 2007: Evaluating weather predictions and subsequent glider flights, fall 2006 and spring 2007, east coast USA. Presented at the OSTIV Meteorological Panel Meeting, St. Auban France, September 2007.

Existing support:

Co-I, Cooperative Remote-Sensing Science and Technology Center, NOAA, \$100,000 with S. Gedzelman
PI, PSC-CUNY Award, \$3900, Research. Associate support