JANET M. INTRIERI, Ph. D.

Atmospheric Research Scientist
NOAA / Environmental Technology Laboratory / Optical Remote Sensing Division
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PROFESSIONAL PREPARATION

University of Colorado	Aerospace Engineering Sciences	Ph.D., 2002
University of Colorado	Aerospace Engineering Sciences	M.S., 1996
Colorado State University	Atmospheric Sciences	M.S., 1991
Pennsylvania State University	Meteorology	B.S., 1985

RESEARCH AREAS

Lidar and radar remote sensing and synthesis, polar atmospheric radiation, climate processes and cloud interactions, thunderstorm dynamics, atmospheric optics, tropical clouds, density currents, severe weather

PROFESSIONAL APPOINTMENTS

NOAA / ETL / Atmospheric Lidar Division	May 1987 – Present
NOAA / Arctic Research Office (temporary assignment)	September 2002 – April 2003
NOAA / ETL / Meteorological Applications Division	September 1985 – April 1987
NOAA / Forecast Systems Laboratory	May 1985 – August 1985

SELECT REFEREED PUBLICATIONS

Intrieri, J.M. and M.D. Shupe, 2004: Characteristics and Radiative Effects of Diamond Dust on the Arctic Surface. *J. Climate*, **17**, 2953-2960.

Shupe, M. D., and J. M. Intrieri, 2004: Cloud radiative forcing of the Arctic Surface: The influence of cloud properties, surface albedo, and solar zenith angle. *J. Climate*, **17**, 616-628.

Intrieri, J. M., C. W. Fairall, M. D. Shupe, P. O. G. Persson, E. L. Andreas, P. S. Guest, and R. E. Moritz, 2002: An annual cycle of Arctic surface cloud forcing at SHEBA. *J. Geophys. Res.*, **107**, 8039, 2002.

Intrieri, J. M., M. D. Shupe, T. Uttal, and B. J. McCarty, 2002: An annual cycle of Arctic cloud characteristics observed by radar and lidar at SHEBA. *J. Geophys. Res.*, **107**, 8030, 2002.

Key, J.R., and J.M. Intrieri, 2001: Cloud particle phase determination with the AVHRR. *J. Appl. Meteor.*, **39**, 1797-1804.

Pinto, J.O., J.A. Curry, J.M. Intrieri, 2001: Cloud-aerosol interactions during autumn over the Beaufort

Sea. *J. Geophys. Res*., **106**, 15077-15097.

Intrieri, J.M., W.L. Eberhard, T. Uttal, J.B. Snider, Y. Han, J.A. Shaw, B.W. Orr, and S.Y. Matrosov, 1995: Multi-wavelength observations of a developing cloud system: The FIRE II 26 November 1991 case study. *J. Atmos. Sci.*, **52**, 4079-4093.

Intrieri, J.M., G.L. Stephens, W.L. Eberhard, and T. Uttal, 1993: A method for determining cirrus cloud particle sizes using a lidar and radar backscatter technique. *J. Appl. Meteor.*, **32**, 1074- 1082.

Intrieri, J.M., C.G. Little, W.J. Shaw, P.A. Durkee, R.M. Banta, and R.M. Hardesty, 1990: The Land/Sea Breeze Experiment (LASBEX). *Bull. Amer. Meteor. Soc.*, **71**, 656-664.

Intrieri, J.M., A.J. Bedard, Jr., and R.M. Hardesty, 1990: Details of colliding thunderstorm outflows as observed by Doppler lidar. *J. Atmos. Sci.*, **47**, 1081-1098.

SCIENCE COMMITTEES, AWARDS, ASSOCIATIONS

International Laser Radar Conference, Program committee member, 2003-2004
Coordination-group for Laser Atmospheric Studies, Committee member, 1999-2003
DOE / Atmospheric Radiation Measurement (ARM), Science team member, 1999-2004
Polar Meteorology and Oceanography Conference, Session chairperson, 2000, 2002
GEWEX Cloud System Study, Working Group V (Polar clouds) member, 1998-2003
NSF / SHEBA, Science team member, 1998-2002
NASA / FIRE, Science team member, 1990-1995
Gordon Conference, Session chairperson (Atmospheric Radiation), 1999
Radiation Conference, Session chairperson, 1997
International Radiation Symposium, Session chairperson, 1997
Lidar Atmospheric Studies Symposium, Session chairperson, 1998
WMO / Vaisala paper award finalist, 1993
NOAA outstanding paper award nominee, 1993, 2001
American Meteorological Society member, since 1985

2003-2004 RESEARCH ROLES

DOE / ARM: Arctic Cloud and Radiation Principal Investigator (PI)
NOAA / EPIC: Boundary Layer / Tropical Cloud and Radiation Co-PI
NSF / SHEBA: Arctic Science Co-PI
NSF / NOAA / SEARCH: Arctic Science Co-PI

RECENT FIELD EXPERIENCE

2002: New England Air Quality Study, Rye Beach, New Hampshire
2001: Eastern Pacific Investigation of Climate, Galapagos Islands, Ecuador
2000: Vertical Transport and Mixing Study, Salt Lake City, Utah
1999: Mesoscale Alpine Project, Brenner Pass, Austria
1998: NASA/FIRE Arctic Clouds Experiment, Beaufort and Chukchi Sea, Arctic Ocean
1997: Surface Heat Budget of the Arctic, (SHEBA), Arctic Ocean
1996 Cloud and Radiation Study, (CART), Lamont, Oklahoma