

Olga V. Wilhelmi
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Project Scientist I
Institute for the Study of Society and Environment
National Center for Atmospheric Research
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Professional Preparation

Moscow State University	Geography/Geoecology	B.S., 1993
University of Nebraska-Lincoln	Agricultural Meteorology	M.S., 1996
University of Nebraska-Lincoln	Natural Resource Sciences	Ph.D., 1999
NCAR	Advanced Study Program	Postdoctoral, 2001

Research Interests

GIS in atmospheric sciences; human, climate and environment interactions; impacts of climate variability, extreme climate and weather events, and global change on society and natural resources; drought vulnerability; use of GIS and remote sensing techniques in natural hazards mitigation.

Academic and Professional Appointments

2002-Present	Project Scientist I. Environmental and Societal Impacts Group, NCAR.
2001-Present	Principal Investigator. GIS Strategic Initiative, NCAR
2001-2002	Visiting Scientist. Environmental and Societal Impacts Group, NCAR.
2002-2003	Adjunct Assistant Professor. MEng-GIS Program, College of Engineering and Applied Sciences, University of Colorado at Denver.
1993-1999	Graduate Research Assistant. School of Natural Resource Sciences, University of Nebraska-Lincoln.
1991-1993	Research assistant. Department of Physical Geography of the World and Geoecology, Moscow State University, Moscow, Russia.

Selected Publications

- Morss, R.E., O. V. Wilhelmi, M. W. Downton, and E. Grunfest, 2005. Flood risk, uncertainty, and scientific information for decision-making: Lessons from an interdisciplinary project *Bulletin of American Meteorological Society (in press)*.
- Wilhelmi, O. V. and T. L. Betancourt 2005. Evolution of NCAR GIS Initiative: Demonstration of GIS Interoperability. *Bulletin of American Meteorological Society*, 86(2): 176-178.
- Wilhelmi, O.V., K.L. Purvis, and R.C. Harriss. 2004. Designing a geospatial information infrastructure for the mitigation of heat wave hazards in urban areas. *Natural Hazards Review*, 5(3): 147-158.
- Hayes, M. J., O.V. Wilhelmi, and C.L. Knutson. 2003. Reducing drought risk: Bridging theory and practice. *Natural Hazards Review*, 5(2):106-113.

- Wilhelmi, O.V and J.C. Brunskill. 2003. GIS in Weather, Climate and Impacts. *Bulletin of American Meteorological Society*, Vol. 84, No.10, 1409-1414.
- Wilhelmi, O.V. and D.A. Wilhite. 2002. Assessing vulnerability to agricultural drought: a Nebraska case study. *Natural Hazards*, Vol. 25, No.1, pp. 37-58.
- Wilhelmi, O.V., K.G. Hubbard, and D.A. Wilhite. 2002. Spatial representation of agroclimatology in a study of agricultural drought. *International Journal of Climatology*, Vol. 22, No. 11, pp. 1399-1414.
- Wilhite D.A., and O. Vanyarkho. 2000. Drought: Pervasive Impacts of a Creeping Phenomenon (Chapter 18). In: D.A. Wilhite (ed.), *Drought: A Global Assessment*, Natural Hazards and Disasters Series. Routledge Publishers, UK.

Synergistic Activities

- Principal Investigator and leader: NCAR GIS Initiative, 2001- present
- Reviewer/Guest Editor: Special issue of *Meteorological Applications* on GIS in Meteorology and Climatology (with I. Dyras) Vol. 12, No. 1. March 2005
- Selected fellow: UCAR Leadership Academy - 2004
- Co-chair: Session on “GIS in Meteorology and Climatology” EGS-AGU-EUG Joint Assembly and EGU, Nice, France. 2003-2005
- Organizer/Chair: 1st and 2nd Workshops on “GIS in Weather, Climate and Impacts.” NCAR, Boulder, Colorado, August 12-14, 2002, 2005
- Invited expert: COST-719 (The Use of GIS in Climatology and Meteorology), 7-9 November 2003, Volos, Greece.
- Invited speaker and panel member: Unidata Workshop “Expanding Horizons: Using Environmental Data for Education, Research, and Decision Making.” Boulder, Colorado, U.S.A. June 22-27, 2003,
- Organizer: Atmospheric Data Modeling Workshop, NOAA/PMEL, Seattle, WA, January 16-17, 2004
- Member: NCAR Wildfire Initiative Steering Committee, 2001-2002
- Proposal Reviewer: NSF - 2003, 2004
- Participant: AMS/UCAR Summer Policy Colloquium. Washington, D.C., June 3-12, 2001
- Research Mentor: Significant Opportunities in Atmospheric Research and Science (SOARS) Program. NCAR. Summer 2001, 2005.