

JONATHAN W. PUNDSACK

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PROFESSIONAL PREPARATION

University of St. Thomas, St. Paul, MN	B.S., Biology, minor in Philosophy	1996
University of Minnesota-Duluth	M.S., Water Resources Science	2000
University of New Hampshire	Ph.D. Student, Natural Resources and Earth Systems Science	part-time student

PROFESSIONAL EXPERIENCE

2003-present	Executive Director, Arctic-CHAMP (Community-Wide Hydrological Analysis and Monitoring Program) Science Management Office, sponsored by NSF-ARCSS Office of Polar Programs. University of New Hampshire, Durham, NH.
2001-2003	Program Manager for Latin America and the Caribbean. NOAA Office of Global Programs, Silver Spring, MD.
2000-2001	National Sea Grant Dean John A. Knauss Marine Policy Fellow. NOAA Office of Global Programs, Silver Spring, MD.
1996-1997	Database investigator, Co-author of EPA/WERF (Water Environment Research Federation) book. Sustainability International, Inc. St. Paul, MN.
1995-1997	Biological Sciences Technician, USDA North Central Experiment Station. Marine-on-St. Croix, MN.
1993-1994	Biological Science Aid, USDA North Central Experiment Station. Rhinelander, WI.

PUBLICATIONS

Lammers, R.B., J. Pundsack, and A. Shiklomanov. 2007. Variability of river temperature and energy flux from the Russian pan-Arctic land mass. *JGR Biogeosciences*, in review.

Pundsack, J., R. Hicks, and R. Axler. 2005. Effect of on-site alternative wastewater treatment on the culturability and viability of *Salmonella choleraesuis*. *Journal of Water and Health*, 03(1): 1-14.

Pundsack, J., L. Hinzman, and C.J. Vörösmarty. 2003. Arctic-CHAMP coordinates Freshwater Initiative Projects. *Witness the Arctic* 10: 9.

Pundsack, J., R. Axler, R. Hicks, J. Henneck, D. Nordman, and B. McCarthy. 2001. Seasonal pathogen removal by alternative on-site wastewater treatment systems. *Water Environment Research*, 73(2): 204-212.

Draeger, K.J., J.W. Pundsack, and M.D. Jorgenson. 1999. Watershed Effects of Biosolids Land Applications: Literature Review. Water Environment Research Foundation, Alexandria, VA. Pp. 211.

SYNERGISTIC ACTIVITIES

(1) Arctic Hydrology Program Coordination. Currently I serve as the Executive Director of the Arctic-CHAMP (Community-Wide Hydrological Analysis and Monitoring Program) Science Management Office at the University of New Hampshire. Funded by the National Science Foundation Arctic System Science Program's Office of Polar Programs, this office was established to help coordinate

22 science projects (collectively funded as part of NSF's FreshWater Integration study (FWI) focusing on various aspects of the Arctic hydrological cycle. I have provided critical technical, conceptual, and logistical support to facilitate the FWI synthesis. This position requires strong planning and coordination skills, excellent interpersonal skills, and a sound scientific and technical background. Duties include conference planning and support, outreach and education efforts, technical and administrative report writing, web site development and maintenance, and frequent correspondence with project PIs to ensure synthesis and integration across the suite of projects.

(2) Multidisciplinary Research. Throughout my professional and educational careers, I have been committed to multidisciplinary research. My MS project required close interaction with individuals from diverse backgrounds who represented diverse interest groups, including contractors, regulators, researchers, and politicians. My current Ph.D. program (part-time) at the University of New Hampshire is a joint interdisciplinary degree in Natural Resources and Earth Systems Science. For my PhD dissertation topic, I plan to assess the adequacy of the U.S. science and technology infrastructure to address key climate policy challenges with respect to the Arctic region. This work will build on some of the broad policy imperatives outlined by major international efforts, including Arctic Climate Impact Assessment (ACIA), and the Intergovernmental Panel on Climate Change (IPCC), among others. This is a very timely and important topic to address, and I believe that my current work position and past experiences will allow me to make a very positive contribution to the NRESS Program and hopefully to the greater scientific community. For this program, I will work closely with scientists and practitioners representing diverse interests and backgrounds.

(3) International Collaboration. As a National Sea Grant Knauss Fellow, and subsequently as the Research Applications Program Manager for Latin America and the Caribbean, at the NOAA Office of Global Programs, I gained great exposure to international science and policy issues. I worked within the Climate and Societal Interactions Division, which focuses on the interface between scientific information and environmental and societal decision-making, particularly with relation to climate. I was responsible for developing and managing activities (e.g. pilot research activities, climate outlook forums, training courses, workshops) for advancing the use of climate forecast information as a planning and decision-making tool in climate-sensitive sectors such as agriculture, water resources, health, and disaster management. These positions required strong coordination with regional, national, and international organizations to facilitate the development of climate information and application networks in Latin America and the Caribbean. International collaboration is also a very important aspect of my duties as Executive Director of the Arctic-CHAMP Science Management Office, as well as for my role in Arctic-HYDRA project. As stated in the Arctic-CHAMP report, contributions from this program toward articulating the diverse physical, biological, and human vulnerabilities to changes in the hydrology of the Arctic region provide an important impetus for international cooperation in wisely managing this critical part of the earth system.

RECENT COLLABORATIONS (past 48 months)

C.J. Vörösmarty (Univ. New Hampshire), Larry Hinzman (Univ. Alaska Fairbanks)

GRADUATE ADVISORS

Charles Vörösmarty, University of New Hampshire – Advisor for PhD program in Natural Resources and Earth Systems Science, current.

Randall Hicks, PhD, University of Minnesota-Duluth – Co-Advisor for MS Degree in Water Resources Science, 2000.

Richard Axler, PhD, University of Minnesota-Duluth – Co-Advisor for MS Degree in Water Resources Science, 2000.