

Les A. Hook

Scientist

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Education and Training

1988 Southern Illinois University-Carbondale, Zoology, PhD

1979 Southern Illinois University-Carbondale, Zoology, MA

1975 Central College, Pella, Iowa, Biology, BA

Research and Professional Experience

- 1997-Present Data and Documentation Coordinator, Oak Ridge National Laboratory Distributed Active Archive Center (DAAC), NASA. Responsible for archiving DAAC data sets -- interacting with investigators to obtain data, assigning metadata, and developing documentation.
- 2009-Present Data and Documentation Coordinator, Oak Ridge National Laboratory, Carbon Dioxide Information Analysis Center (CDIAC), DOE. Responsible for planning and implementing data management work flows for collecting, managing, and archiving data and metadata at CDIAC. Currently supporting SPRUCE, NGEE-Arctic, and HIPPO projects.
- 1997-2010 Director, NARSTO Quality Systems Science Center, CDIAC, DOE. Responsible for providing data and quality management planning and implementation and data archiving support for this multi-national organization dedicated to improving air quality management across North America. Duties included developing data and metadata reporting standards and quality assuring and preparing atmospheric measurement data for archive.

Publications

1. Pesant, S., L.A. Hook, R. Lowry, G. Moncoiffé, A-M. Nisumaa, and B. Pfeil. 2010. Safeguarding and sharing ocean acidification data. In U. Riebesell, V.J. Fabry, L.Hansson and J-P. Gattuso, editors. Guide to best practices for ocean acidification research and data reporting, 260 p. Luxembourg: Publications Office of the European Union.
2. Cook, R.B., W.M. Post, L.A. Hook, and R.A. McCord. 2009. A Conceptual Framework for Management of Carbon Sequestration Data and Models. In B.J. McPherson and E.T. Sundquist, editors. Carbon Sequestration and Its Role in the Global Carbon Cycle. AGU Monograph Series 183. pp. 325-334. DOI: 10.1029/2008GM000713.
3. Hook, L. A., T. W. Beaty, S. Santhana-Vannan, L. Baskaran, and R. B. Cook. 2007. Best Practices for Preparing Environmental Data Sets to Share and Archive. (preparation and electronic publishing by Oak Ridge National Laboratory Distributed Active Archive Center) (<http://daac.ornl.gov/PI/bestprac.html>). Oak Ridge National Laboratory, Oak Ridge, TN, USA.
4. Hook, Les A. and Sigurd W. Christensen. 2006. NARSTO Support for Atmospheric Science Research and Data Collection Endeavors (<http://cdiac.ornl.gov/programs/NARSTO/>). 2006 East Tennessee Ozone Study (ETOS) Science Workshop, Oak Ridge, Tennessee, May 17-18, 2006.
5. Hook, Les A., Sigurd W. Christensen, Kathleen L. Morris, and Tammy W. Beaty. 2006. Accessing EPA PM Supersites Data in the NARSTO Data Archive (<http://cdiac.ornl.gov/programs/NARSTO/>). Particulate Matter Supersites Program and Related Studies, An AAAR International Specialty Conference, Atlanta, Georgia, February 7-11, 2005.
6. Thornton, P.E., R.B. Cook, B.H. Braswell, B.E. Law, W. M. Post, H. H. Shugart, B.T. Rhyne, and L.A. Hook. 2005. Archiving Numerical Models of Biogeochemical Dynamics. Eos, Vol. 86, No. 44, 1 November 2005.
7. Cushman, R.M., et al. 2004. Carbon Dioxide Information Analysis Center and World Data Center for Atmospheric Trace Gases, Fiscal Year 2003 Annual Report, ORNL/CDIAC-145 .

8. Hook, L.A., S.W. Christensen, and W.B. Sukloff. Data and Metadata Reporting Standards for the U.S. Environmental Protection Agency's PM Supersites Research Program. *Quality Assurance -- Good Practice, Regulation, and Law*, 9:155-164, 2001/2002.
9. Cook, Robert B, Richard J. Olson, Paul Kanciruk, and Leslie A. Hook. 2001. Best Practices for Preparing Ecological Data Sets to Share and Archive. *Bulletin of the Ecological Society of America*, Vol. 82, No. 2, April 2001.
10. Hook, L.A., P.J. Franco, and J.M. Giddings. 1986. Zooplankton Community Responses to Synthetic Oil Exposure. In *Community Toxicity Testing, ASTM STP 920*, J. Cairns, Jr., Ed., American Society for Testing and Materials, Philadelphia. Pp. 291-321.69(1):27-42.

Synergistic Activities

1. Data Coordinator, Spruce and Peatland Responses Under Climatic and Environmental Change (SPRUCE), 2009-present. Developed data policy and management plan for SPRUCE experiment.
2. HIPPO (HIAPER Pole-to-Pole Observations (NSF funded)) Data Management and Archive Team, CDIAC, 2009-present. Responsible for planning and implementing data management work flow for obtaining, quality assuring, formatting, and archiving data and metadata in CDIAC. Coordination and participation with PI, aircraft instrument team, and independent investigators are keys to success.
3. Team Member, Wind Resource Data Active Archival and Integration Effort Development Team, 2009-2010. Task includes implementing a virtual data repository that will provide a single portal to wind energy data to support resource evaluation and siting studies. Leveraged existing DAAC tools for wind energy application with subject-specific metadata additions and search tool modifications
4. Data Management Coordinator, U.S. EPA Particulate Matter Supersites Program, 2000-2004. At CDIAC, worked with EPA PM Supersite Project Managers and Data Coordinators of this national multi-site program to development and implement data, metadata, and format reporting standards for archiving and dissemination of their research data products.