

Misha Krassovski

Data Systems Architect

Oak Ridge National Laboratory, Environmental Sciences Division

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Education and Training

- 1990 Moscow State Technical University, Moscow, Russia, Engineering, M.S.
- 2002 The University of Tennessee, Knoxville, TN, Microsoft .NET developer Training
- 2002 New Horizons Computer Learning Center, Knoxville, TN IT Network Security Training
- 2003 New Horizons Computer Learning Center, Washington, DC, Microsoft SQL Server 2000 Database Design and Implementation
- 2003 The University of Tennessee, Knoxville, TN, Effective Supervisor Practices
- 2003 New Horizons Computer Learning Center, Knoxville, TN, Project Management Professional Certification

Research and Professional Experience

- 2005 - Data Systems Architect, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, TN
- 2004-2005 Data systems designer, Office of Vice President for Finance and Administration, the University of Tennessee
- 2002-2004 Manager, Office Equipment Repair Services, the University of Tennessee
- 2001-2002 Computer Information Specialist, Agricultural Extension Service, Information Technology Department, the University of Tennessee
- 1998-2001 Network/PC Technician Advanced Systems Design, Inc., New Market, TN
- 1995-1998 IT Manager, Power International, Ltd., Moscow, Russia
- 1990-1995 PC Technician/Programmer, ASTEP, Inc., Moscow, Russia
- 1988-1990 Programmer, Moscow State Technical University, Moscow, Russia

Project Leadership Roles

- W.A.V.E.S. (Web-Accessible Visualization and Extraction System) - serving more than 4.5 million oceanographic observations and metadata records
- AmeriFlux Data Exploration and Extraction System - access to more than 0.5 billion meteorological and biological observations provided by 140 sites in North America
- SPRUCE experiment data system
- Bio fuel research database, metadata database and search interface
- Fossil fuel CO2 emissions: time series and gridded data product from CDIAC holdings
- HIPPO (HIAPER Pole-to-Pole Observations) data access interface
- SPRUCE (Spruce and Peatland Responses Under Climatic and Environmental Change) experiment data system design and implementation
- NGEE-Arctic (Next-Generation Ecosystem Experiments – Arctic) Council experimental site power and communication system

Publications

1. Krassovski MB, Lyon GE, Riggs JS, Hanson, PJ: Near-real-time environmental monitoring and large-volume data collection over slow communication links, *Geoscientific Instrumentation, Methods and Data Systems*, 7, 289–295, 2018, doi: 10.5194/gi-7-289-2018
2. Richardson AD, Hufkens K, Milliman T, Aubrecht DM, Furze ME, Seyednasrollah B, Krassovski MB, Latimer JM, Nettles WR, Heiderman RR, Warren JM, Hanson PJ (2018) Ecosystem warming extends vegetation activity but heightens cold temperature vulnerability. *Nature* 560:368-371, doi: 10.1038/s41586-018-0399-1.
3. Hanson PJ, Riggs JS, Nettles WR, Phillips JR, Krassovski MB, Hook LA, Richardson AD, Aubrecht DM, Ricciuto DM, Warren JM, Barbier C (2017) Attaining whole-ecosystem warming using air and deep soil heating methods with an elevated CO₂ atmosphere. *Biogeosciences* 14: 861–883, doi: 10.5194/bg-14-861-2017
4. Krassovski, M. B., Riggs, J. S., Hook, L. A., Nettles, W. R., Hanson, P. J., and Boden, T. A.: A comprehensive data acquisition and management system for an ecosystem-scale peatland warming and elevated CO₂ experiment, *Geoscientific Instrumentation, Methods and Data Systems*, 4, 203-213, doi:10.5194/gi-4-203-2015, 2015.
5. Wang, D., Wu, W., Xu, Y., Winkler, F., Janjusic, T., Thornton, Peter E., Iversen, Colleen M., Krassovski, M.: Scientific Functional Testing Platform for Environmental Models: An Application to Community Land Model. *Proceedings of the International Conference on Software Engineering*, 2015
6. Deverakonda, R., Shrestha, B., Palanisamy, G., Hook, L., Killeffer, T., Krassovski, M., Boden, T., Cook, R., Zolly, L., Hutchison, V., Frame, M., Cialella, A., Lazer, K.: OME: Tool for generating and managing metadata to handle BigData. *Big Data (Big Data)*. 2014 IEEE International Conference, 8-10, doi: 10.1109/BigData.2014.7004476, 2014
7. Boden, T. A., Krassovski, M., and Yang, B.: The AmeriFlux data activity and data system: an evolving collection of data management techniques, tools, products and services. *Geoscientific Instrumentation, Methods and Data Systems*, 2, 165-176, doi:10.5194/gi-2-165-2013, 2013