

Zhengpeng Li

Title: Environmental Scientist

Arctic Slope Regional Corporation Research and Technology Solutions (ARTS)

Contractor to the U.S. Geological Survey (USGS) Earth Resources Observation and Science (EROS) Center

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Education and/or Training

B.S. 1997 Peking University, China, Inorganic Chemistry

M.S. 2000 Peking University, China, Environmental Science

M.S. 2004 SD School of Mines & Technology, South Dakota, Computer Science

Areas of Specialization and/or Research Interests

Adaptation of a modeling and web-based mapping system for monitoring and predict the spatial and temporal changes of carbon stocks and fluxes at the regional scale. Quantify the status and trends of carbon stocks in vegetation and soils using an existing modeling system, assess the implications of land management policies and climate variability and change on carbon dynamics, and investigate the major driving forces of carbon stock change in temperate and boreal terrestrial ecosystems. Participate in assembling spatial databases such as climate, soils, and land cover, develop new model component to meet future research requirements, support analysis of model simulated results, and summarize the results in peer-reviewed journal publications.

Professional Experience

2005-Present Environmental Scientist, various contractors, USGS EROS, Sioux Falls, SD

2001-2004 Research Assistant and Research Scientist. Institute of Atmospheric Sciences, SDSM&T, Rapid City, SD

1997-2000 Research Assistant, UNEP project, Beijing, China

Foreign Languages

Mandarin Chinese

Significant Recent Publications

Lee Vierling, Mark Fersdahl, Xuexia Chen, Zhengpeng Li, and Patrick Zimmerman, 2006, The Short Wave Aerostat-Mounted Imager (SWAMI): A novel platform for acquiring remotely sensed data from a tethered balloon. Remote Sensing of Environment, Volume 103, Issue 3, 15 August 2006, Pages 255-264.

S. Liu, Z. Li, J. Liu, T. Loveland, M. Chen, and L Tieszen, 2006, Upscaling Terrestrial Carbon Dynamics From Sites To Regions With Uncertainty Measures: The GEMS Experience, In Proceedings of the 3rd Biennial meeting of the International Environmental Modelling and Software Society (IEMSs) in Vermont, USA, 9-12 July 2006.

Zhengxi Tan, Shuguang Liu, Zhengpeng Li and Thomas R Loveland, 2007, Simulated responses of soil organic carbon stock to tillage management scenarios in the Northwest Great Plains, Carbon Balance and Management, 2:7 (24 Jul 2007) <http://www.cbmjournals.com/content/2/1/7>

Zhengpeng Li, Shuguang Liu, Zhengxi Tan, Spatially Explicit Modeling of Grazing Effect on Soil Organic Carbon Change in the Green River Basin, Wyoming Poster, presented in 2007 fall AGU meeting in San Francisco, CA Dec 2007