

Santonu Goswami



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Santonu Goswami is a postdoctoral research associate in the Environmental Sciences Directorate and the Climate Change Science Institute at ORNL. His research focuses on the impacts of global change on terrestrial ecosystem structure and functions using remote sensing.

While at ORNL, Santonu is involved with Dan Hayes's Dept. of Energy funded career project: "Model-data fusion for retrospective and predictive assessment of the pan-arctic scale permafrost carbon feedback to global change". Santonu will also help with aspects of the Next Generation Ecosystem Experiment (NGEE) project especially those that relate to the use of satellite imagery in modeling terrestrial processes in the Arctic.

Prior to joining ORNL, Santonu received his PhD in Environmental Science and Engineering at the University of Texas at El Paso (UTEP) in 2011 working with Drs. Craig Tweedie and John Gamon on a large scale ecosystem manipulation study in Barrow, Alaska. Santonu's research focused on studying the impact of changing hydrology on ecosystem dynamics of an arctic tundra landscape using hyperspectral reflectance and a robotic tram system. His dissertation research involved three summers of field-work in Barrow, Alaska and also significant collaboration with colleagues from Computer Science within the Cyber-ShARE Center of Excellence at UTEP for data management and data quality issues. Santonu's PhD research has significant implications for interpreting satellite imagery and monitoring the productivity of arctic ecosystems as they respond to climate change. During 2007-2008, Santonu was also part of an IPY Antarctic Expedition to the Antarctic Peninsula where he did field work as part of a terrestrial ecology group.

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