

Presented By:
Phu Nguyen, Ph.D.
Postdoctoral Scholar
*Center for Hydrometeorology &
Remote Sensing (CHRS)*
University of California, Irvine

Environmental Engineering *Seminar Series*

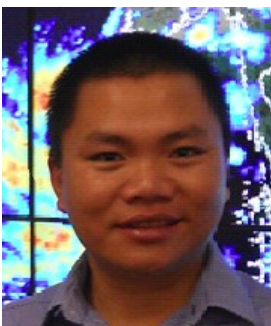
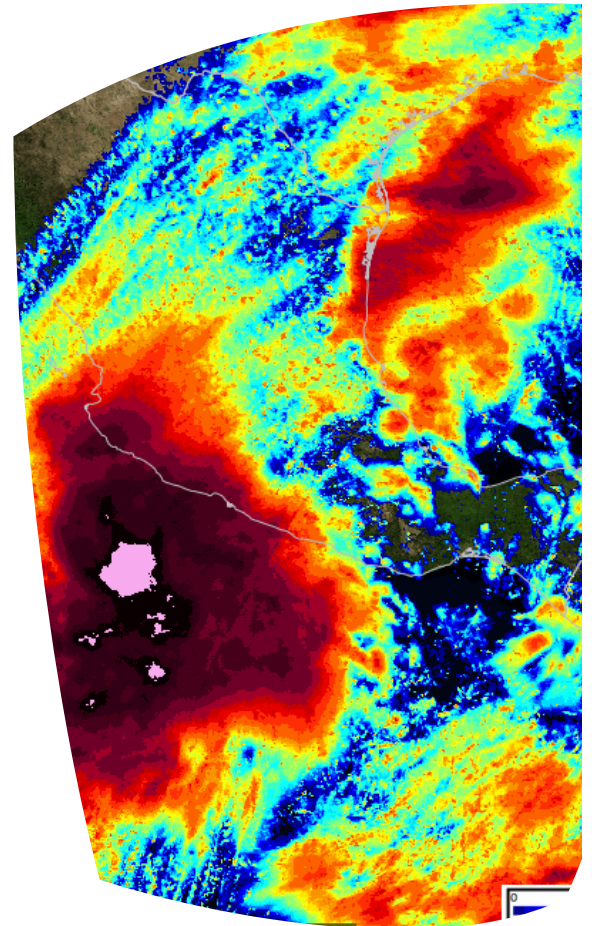
Friday, January 22nd 2016

MDEA

1:30PM - 2:30PM

UCI's CHRS's Global Satellite Precipitation Products: Challenges & Opportunities

Precipitation is a key variable in hydrological processes and varies within time and space. Extreme precipitation events may cause natural disasters and these events vary in many different regions of the world. Droughts may occur if there is little to no precipitation, while one of the most devastating natural hazards, floods, can happen when there is heavy precipitation. Understanding and monitoring precipitation is crucially important in the human society. Besides the traditional methods (gauges, radars), satellite technologies have been developed and applied successfully in precipitation observation since the 1970s. This presentation introduces new satellite precipitation products and tools developed by the Center for Hydrometeorology & Remote Sensing (CHRS, <http://chrs.web.uci.edu>) at UC Irvine.



Dr. Phu Nguyen is a postdoctoral scholar in Hydrology and Water Resources at the Center for Hydrometeorology & Remote Sensing (CHRS), Department of Civil & Environmental Engineering, UC Irvine. He received a Bachelor's degree in Civil Engineering (2003) from Bach Khoa University – HCMC Vietnam and a Master's degree in Engineering Science (2008) from the University of Melbourne under the Australian Government Scholarship. In 2010, he was among the young scientists receiving a 2-year Vietnamese International Educational Development fellowship to pursue his Ph.D. degree program at UC Irvine. Dr. Nguyen's research interests include flood warnings, global extreme satellite precipitation events database using object-oriented approaches, integrated system for global satellite precipitation and information, and global real-time satellite and crowdsourced precipitation observations for hydrologic and natural disaster management applications.