



RA3 Zoom Series | Emerging Threats to Global Water Security as Viewed from Space

The evolving water cycle of the 21st century is proving to be stronger and more variable, resulting in broad swaths of mid-latitude drying, accelerated by the depletion of the world's major groundwater aquifers. A well-defined geography of freshwater 'haves' and 'have-nots' is clearly emerging. What does water sustainability mean under such dynamic climate and hydrologic conditions, in particular when coupled with future projections of population growth? How will water managers cope with these new normals, and how will food and energy production be impacted? In this presentation, I will review what nearly two decades of satellite research tells us about emerging threats to water security. I will share my personal experiences with science communication and water diplomacy, and I will encourage the next generation of water scientists to seek out transdisciplinary experiences as part of their graduate and postgraduate training

Jay Famiglietti is a professor of hydrology and Executive Director of the Global Institute for Water Security at the University of Saskatchewan, where he holds the Canada 150 Research Chair in Hydrology and Remote Sensing. Before moving to USask, Famiglietti served as the Senior Water Scientist at NASA's Jet

Speaker: **Jay Famiglietti**, Uni. of Saskatchewan, Canada

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Propulsion Laboratory. He has held previous faculty positions in Earth System Science at the University of California, Irvine, and in Geological Sciences at the University of Texas at Austin. His research group uses satellites and develops advanced computer models to track how freshwater availability is changing around the globe. A fellow of the American Geophysical Union and the Geological Society of America, Famiglietti is a regular advisor to state, provincial and federal government officials on water security issues. uses satellites and develops advanced computer models to track how freshwater availability is changing around the globe. A fellow of the American Geophysical Union and the Geological Society of America, Famiglietti is a regular advisor to state, provincial and federal government officials on water security issues.



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