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Tess is a Postdoctoral Fellow at the Earth Institute, Columbia University. Tess works with Professor Upmanu Lall and other researchers at the Columbia Water Center on a variety of hydrologic projects, primarily concerned with agricultural water management. Her current projects include quantifying hydrologic, agronomic, economic, and energy use relationships, as well as developing low-cost, low-power sensors to manage irrigation and fertilizer applications. Tess received her Ph.D. in Earth Science from the University of California, Santa Cruz, and her B.S. in Mechanical Engineering from Tufts University. Her Ph.D. dissertation examined hydrologic systems response to environmental change using numerical models and algorithms to improve restoration and management strategies.