Towards Sustainable Water Resources Management: Case Studies in California and Ethiopia

This presentation will present recent findings on solving key challenges in the path towards sustainable water resources management under different climate and land use conditions. Specifically, the focus is on three major themes: 1) hydrologic studies in data-scarce regions, 2) integrated water management under climate and land use change, and 3) optimal usage of water resources under multiple competing constraints. Dr. Gebremichael makes use of satellite-based measurements of hydrologic fluxes, spatially distributed land surface models, and advanced optimization tools to address these issues. He will present results from successful case studies, including optimization of hydropower in East Africa and quantification of groundwater change in California’s Central Valley under climate change.

featuring Mekonnen Gebremichael
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