Using Earth Observations to Monitor Water Budgets for River Basin Management

Wednesdays, March 13-April 3, 2019
09:00-10:30 or 16:00-17:30 EDT (UTC-4)

Rivers are a major source of freshwater. They support aquatic and terrestrial ecosystems, provide transportation, and generate hydropower. Managing river basin watersheds is critical for developing policies for sustainable water allocation and development. Over the course of four sessions, this introductory webinar series will address using satellite data and Earth system modeling data sources to estimate surface water budgets.

Session 1: Overview of Remote Sensing Data for River Basin Monitoring

This session will provide an overview of river basin monitoring and management, focusing on its importance and the approach. It will also cover an overview of remote sensing data sources relevant for river basin monitoring and management, and demonstrate data access.

Session 2: Applications of Remote Sensing for River Basin Monitoring, Nile Basin

This session will look at selected remote sensing studies of the Nile River Basin, including remotely sensed water balance analysis, the Nile Land Data Assimilation System, and wetland mapping and monitoring. Featuring guest speaker Benjamin Zaitchik.

Session 3: Applications of Remote Sensing for River Basin Monitoring, Mekong Basin

This session will look at selected remote sensing studies of the Mekong River Basin. Featuring guest speaker John Bolton.

Session 4: Surface Water Budget Estimation Based on Remote Sensing

The final session will include a review of remote sensing data sources for surface water budget components, and run through estimating a water budget of a watershed using remote sensing components.

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