Hydrology and Remote Sensing Laboratory

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The Hydrology and Remote Sensing Laboratory consists of 12 permanent research scientists and 10 research associates/post docs and visiting scientists whose research is related to the following CRIS (Current Research Information System) projects:

- Develop and verify new observational tools (both remote sensing- and ground observation-based) and scaling techniques for characterizing water balance components, from plot (~10 m) to regional scales (~100 km).

- Develop measurement and remote sensing technologies for monitoring soil carbon and carbon exchange from field to regional scales to improve assessments of agricultural-management impacts on the carbon balance.

- Develop remote sensing and modeling approaches for monitoring the magnitude of agricultural drought and its subsequent impact on agricultural crop condition and yield.

- Evaluate the impact of nutrient dynamics on the environment and agricultural production at field and watershed scales.

- Develop remote sensing and modeling approaches for characterizing the multi-scale impacts of conservation practices on water quality variables.

- Evaluate the utility of remote sensing methods to detect invasive species and test models of invasive weed potential distribution using remotely-sensed data.

The mission of the Hydrology and Remote Sensing Laboratory is to conduct nationally oriented basic and applied research on water resources and remote sensing concerns related to the production of food and fiber and the conservation of natural resources.

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Scientists are interested in developing collaborations to advance the science of hydrology and remote sensing at local, national, and global scales.