

The Delta Science Program, Ecosystem Restoration Program & Surface Water Ambient Monitoring Program Jointly Present a Brown Bag Seminar Series

The Delta Carbon Cycle – Quantify, Manage, & Trade

Remote Sensing of Delta Wetlands: A few lessons learned and plans for the future



A.

B.

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**Monday, April 14, 2014
12:00 – 1:00 p.m.**

**Location: Park Tower Building
2nd Floor Conference Room
980 Ninth Street
Sacramento, CA 95814**

Do you have to touch carbon to measure it?

Temperate peatlands – typically dominated by sedges and grasses such as tule (A) & cattail (B) – generate some of the greatest annual rates of net primary productivity and soil carbon storage found in natural ecosystems.

This presentation will provide information about remote sensing techniques used to quantify productivity and potential carbon storage in Delta wetlands as well as information about current collaborative research employing these technologies in the Sacramento-San Joaquin Delta. This research mapped the type, composition and productivity of wetland vegetation in the Delta using field spectrometry and remotely sensed imagery. Remote sensing techniques and physical sampling were used at Twitchell Island and Mayberry Farms to quantify above and below ground biomass. Remote sensing techniques and approaches like these are important tools that can be used to detect changes in wetland areas, vegetation communities, and assess carbon stocks over time.