

Wetland Management Effects on Carbon Sequestration and Greenhouse Gases

*April 25, 2018
10:30am-12:00pm
Session #12 Egret Room*

Speakers:

Janet Ho, UCF

Dave Sumner, USGS

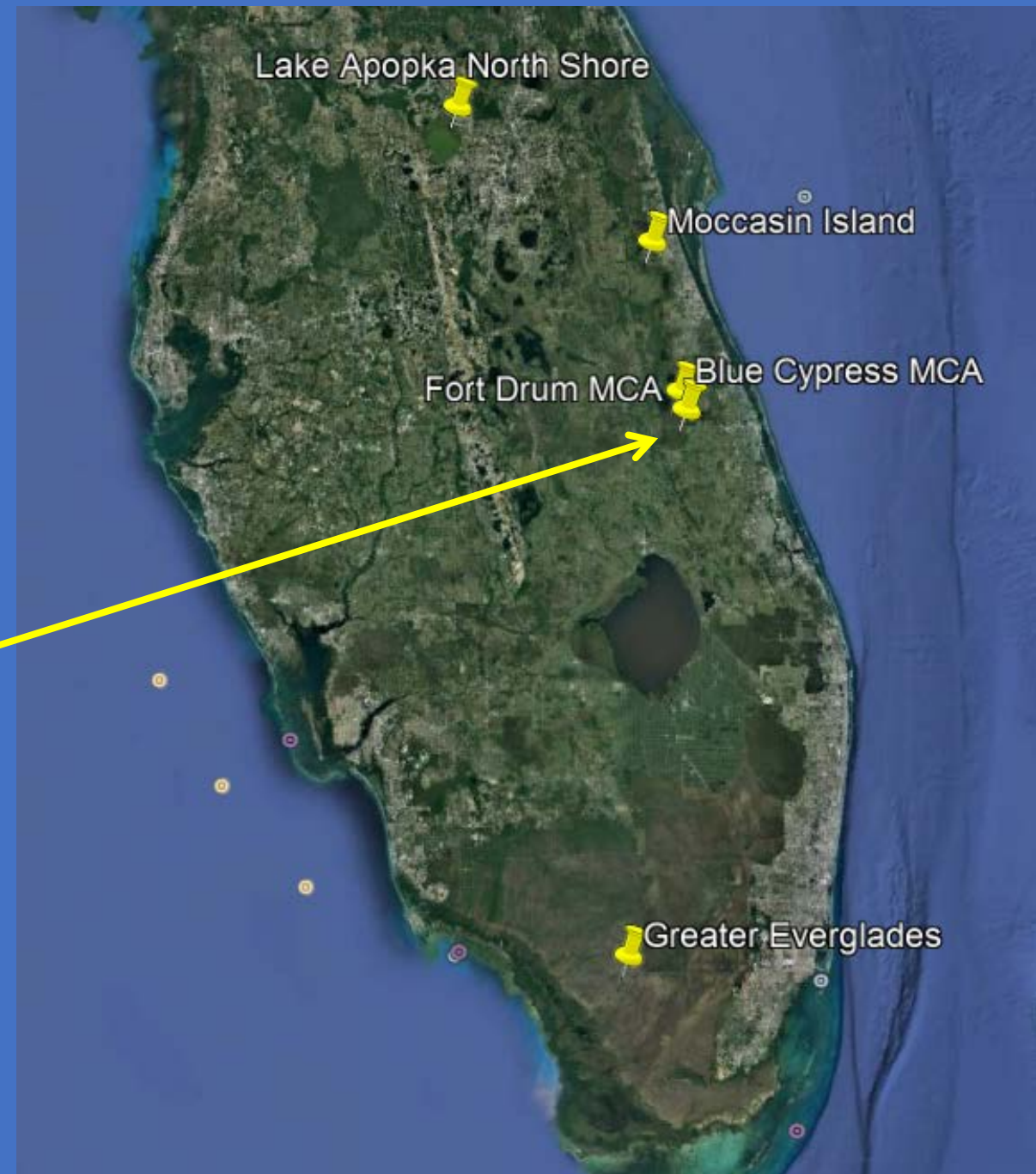
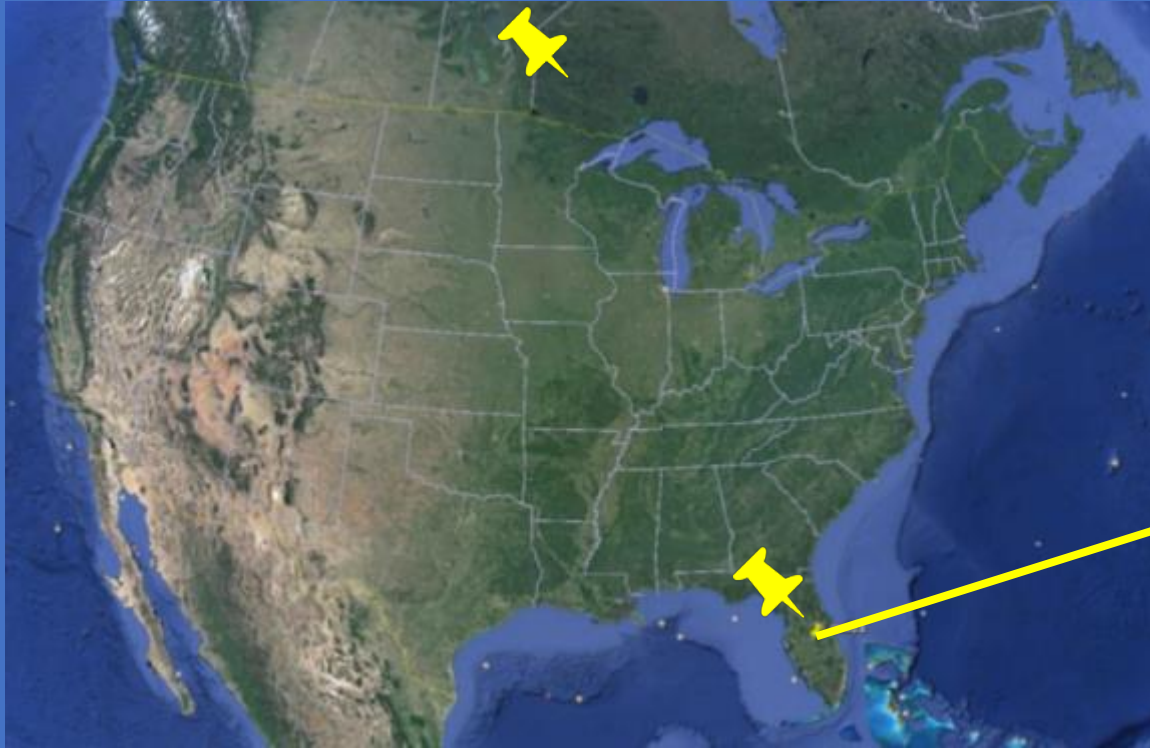
Brian Benscoter, FAU

Angelique Bochnak, ECT, Inc.

Barclay Shoemaker, USGS

Moderator: Kimberli J. Ponzio

Case Study Locations



Primary Driving Forces

Hydrology



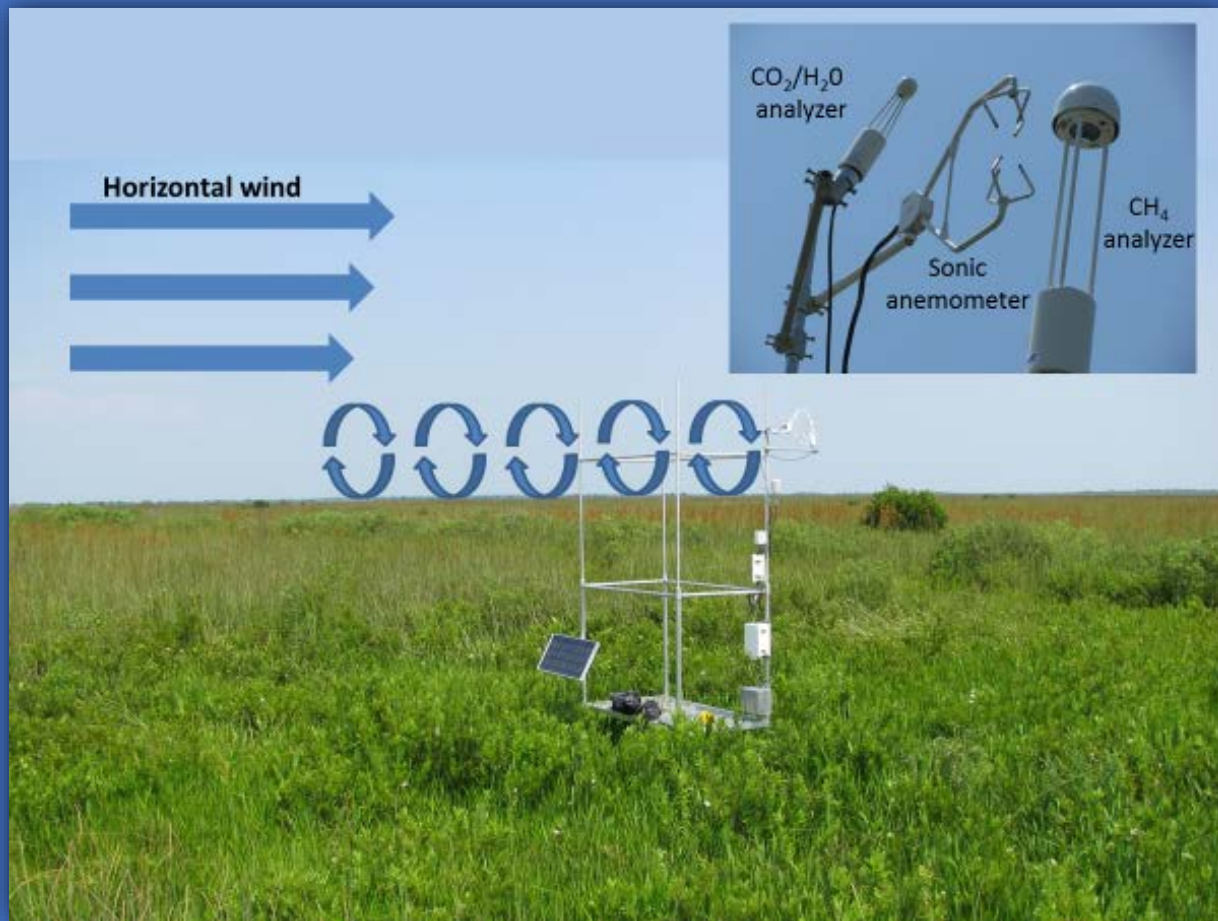
Primary Driving Forces



Fire

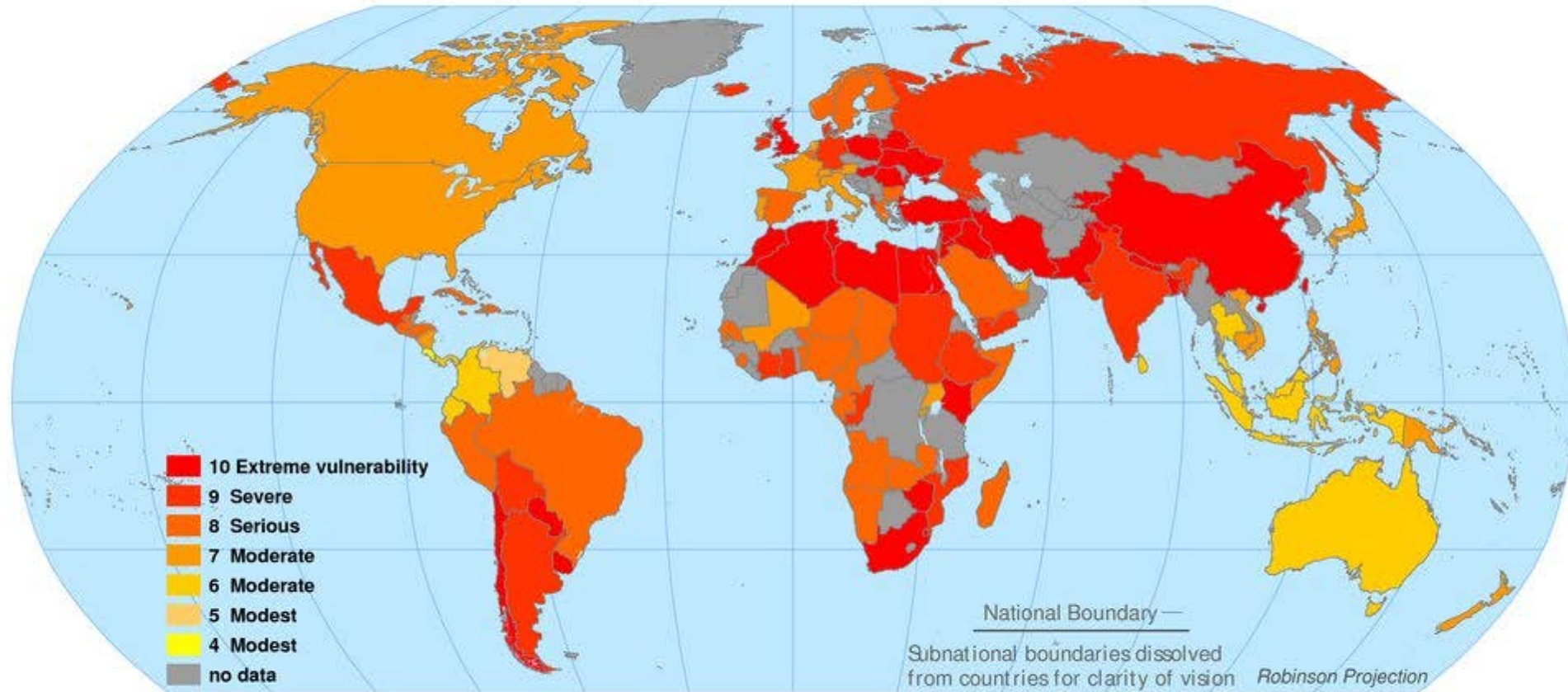


Multiple Scales



Natural Seasonality and Climate Change

Global Distribution of Vulnerability to Climate Change
Combined National Indices of Exposure and Sensitivity



Scenario A2 in Year 2100 with Climate Sensitivity Equal to 5.5 Degrees C
Annual Mean Temperature with Aggregate Impacts Calibration and Enhanced Adaptive Capacity

What you will get out of this symposium?

- Predict effects of changes in hydrology and fire on carbon and water dynamics
- Manage towards goals of carbon sequestration and ecosystem resiliency



Speaker Line-up

Janet Ho, UCF - Characterizing biogeochemical shifts in two shrub encroached marshes under different historical disturbance regimes in the St. Johns River, FL

Dave Sumner, USGS - Role of hydroperiod and fire in carbon dynamics of a subtropical peat marsh

Brian Benscoter, FAU - Shifting fire regimes and the future of peatland carbon storage

Angelique Bochnak, ECT, Inc. – Vegetation response and elevation change in a perturbed hydrologic regime: The subsidy stress gradient in a peat-based floodplain marsh

Barclay Shoemaker, USGS - Carbon cycling and potential soil accumulation within coastal forested wetlands

Questions and Answers

Questions?





Thank You!
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Thanks to the SJRWMD, presenters, and audience!