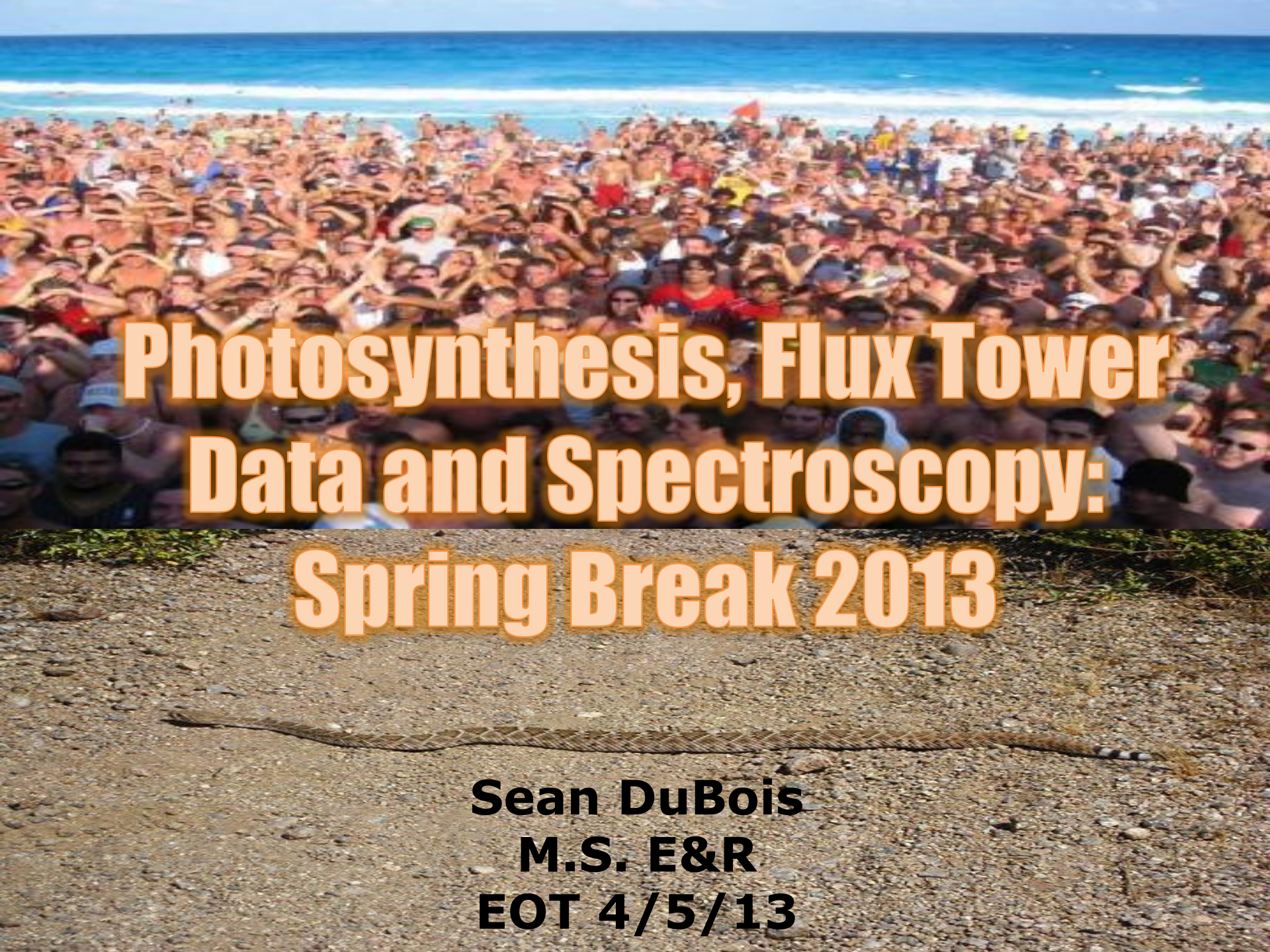

Photosynthesis, Flux Tower Data and Spectroscopy: Spring Break 2013

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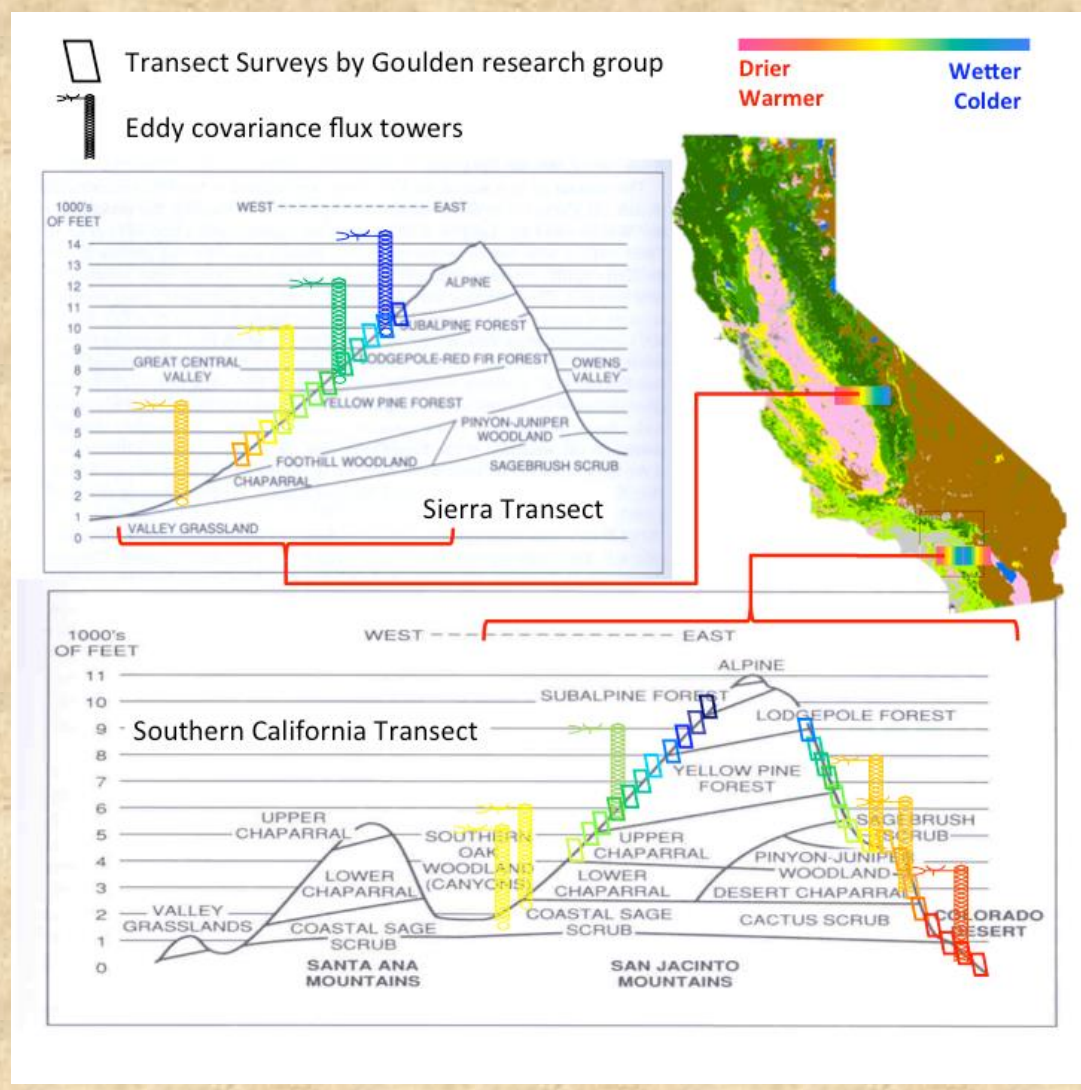
EOT 4/5/13

Study Area

- Southern California
- Climate Gradient
  - Desert
  - Grassland
  - Coastal Sage
  - Oak-Pine Forest
  - Agriculture



Methods

- Airborne Visible InfraRed Imaging Spectrometer
  - NASA ER-2
- Gas exchange on leaves
- Spectroscopy at the leaf and canopy level

Projected results

- Generate photosynthesis maps
- Motivation for implementing Hyper Spectral camera on future satellites
  - Gather information on a regional/global scale

Impacts

- Land cover change
  - Examine how such change influences local carbon cycle via change in vegetation
- Climate Impacts
  - Allow for understanding regional and global changes in carbon cycle through changes in forest canopies under changing climate
- Such data will assist in better climate models