Remote Sensing at KPBS



Doug Goodin G.M Henebry Jincheng Gao David Koch

Past/Continuing Research

- Estimation of mass/energy fluxes
- Spatial patterning of Reflectance and Vegetation Indices
- Spatio-temporal variation in spectral response



Landscape Structure



Sample Landscape Trajectory



Sampling







NDVI Landscape Trajectory Watershed 002c



Canonical Bivariate Plot May



Canonical Bivariate Plot August



Hyperspectral Analysis

- High spectral resolution data
- Retrieval of specific biophysical information
 - Pigments
 - Nutrient Status



Chl Retrieval J. Gao Dissertation



Findings



In-situ Data



Aircraft Data

Linkage to LTER



Proposed Project Grazing Model/Canopy Nutrients





Project Outline







Observed Grazing Patterns

Aircraft Overflight and Field Radiometry July, 2005



Bison Grazing Patterns





Potential Contribution

- Nutrient Distribution (N,P,Na)
- Pigment Distribution (Chl, Minor pigments)
- Grazing Models (Predictive)