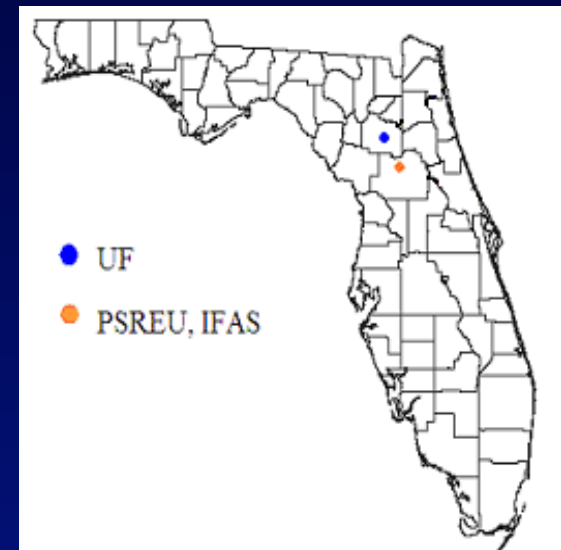
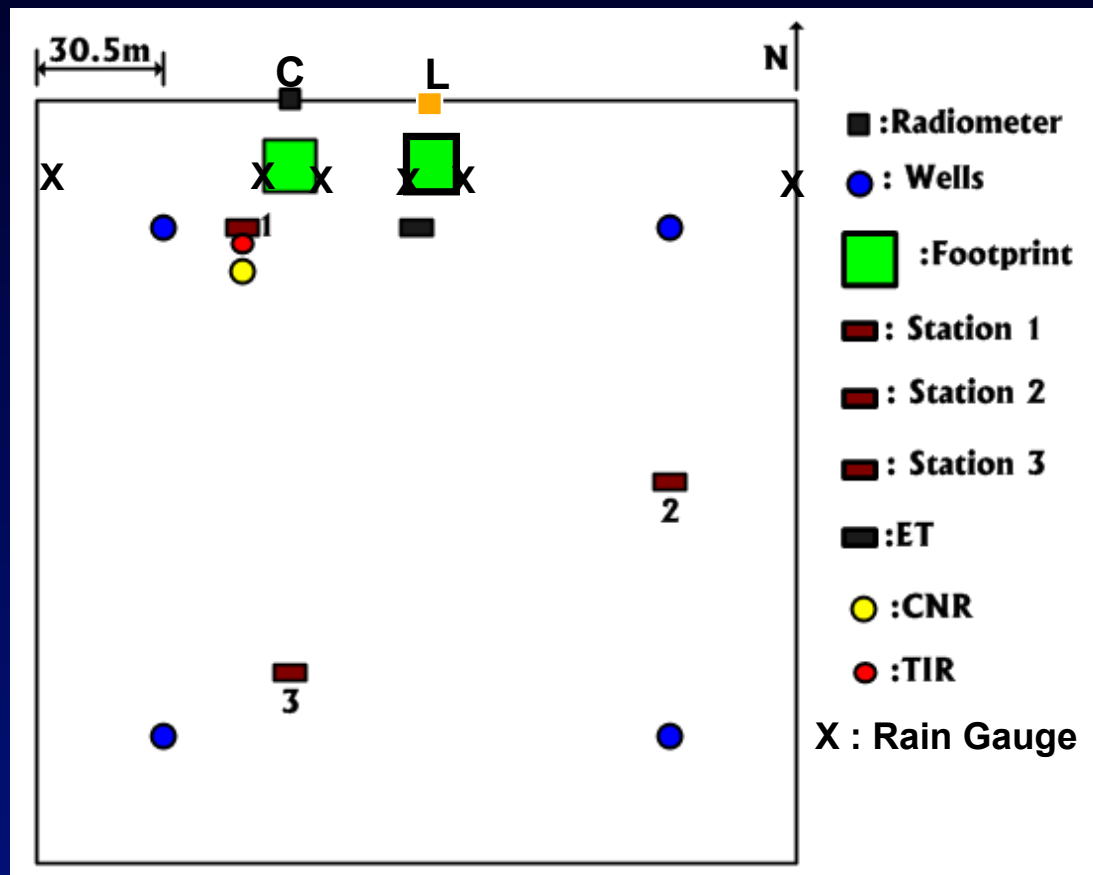


MicroWEXs: Field observations for dynamic vegetation in Florida

Jasmeet Judge

Center for Remote Sensing, University of Florida



Intro & Site Description/ Location

- Season-long observations (planting to harvest) with high temporal frequency for use in development and testing of our hydrology, vegetation growth, microwave remote sensing, and data assimilation algorithms

Microwave water and energy balance experiments (MicroWEXs)

- corn (78 days) – 5 seasons, cotton (130 days) – 2 seasons, energy cane (10 months !) – 2 seasons
- Soils - fine sand; heavily irrigated crop
- Observations
 - microwave brightness (C, L-band), active (L-band) – every 15 min
 - soil moisture & temperatures at 2, 4, 8, 16, 32, 64, 120, 170cm
 - soil heat fluxes
 - vegetation properties: growth, development, geometric
 - soil physical properties
 - micro-met, latent heat, sensible heat fluxes, up/down solar & longwave

MicroWEX-10 (2011): Co-PIs Roger Deroo, Mahta Moghaddam, Tony England

C L

UM

42 m



