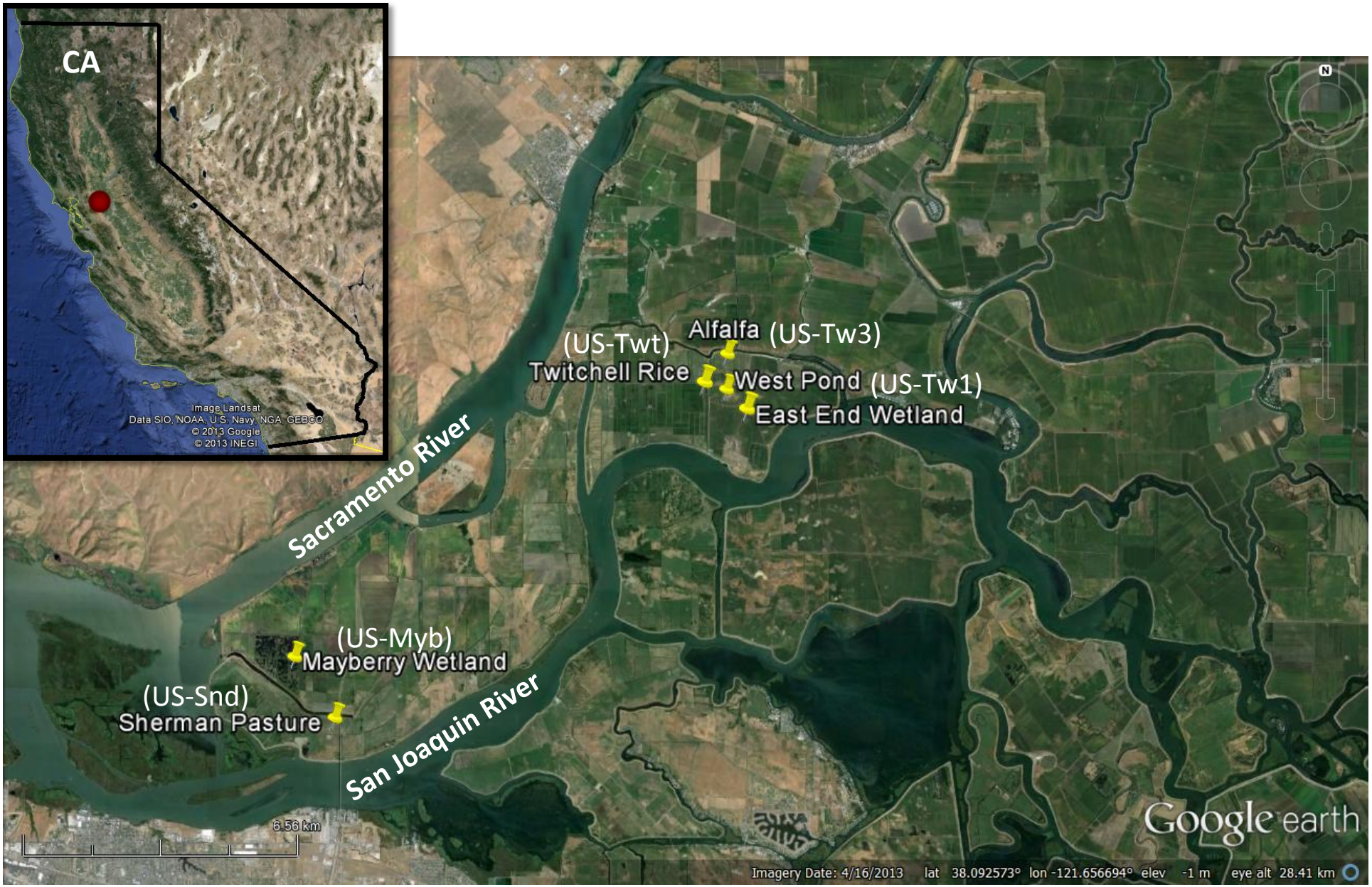
CA Delta Sites
Baldocchi
Lab
UC
Berkeley

The Delta Team

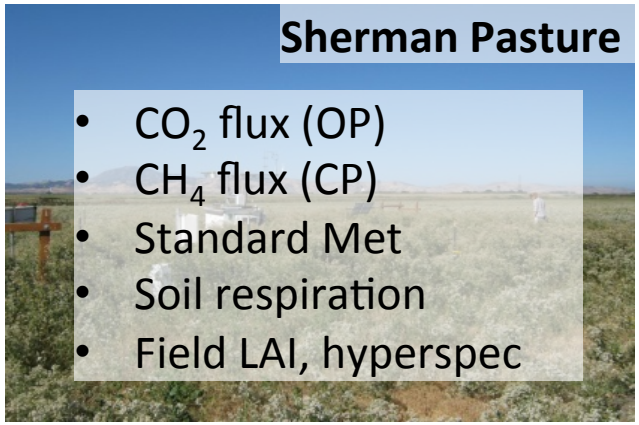
Sacramento-San Joaquin River Delta

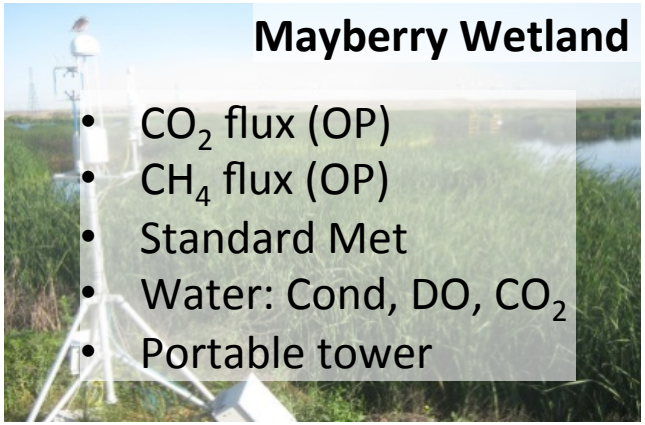


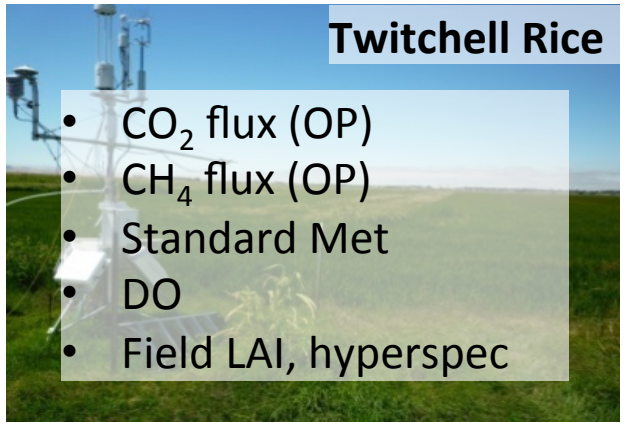
Research goals

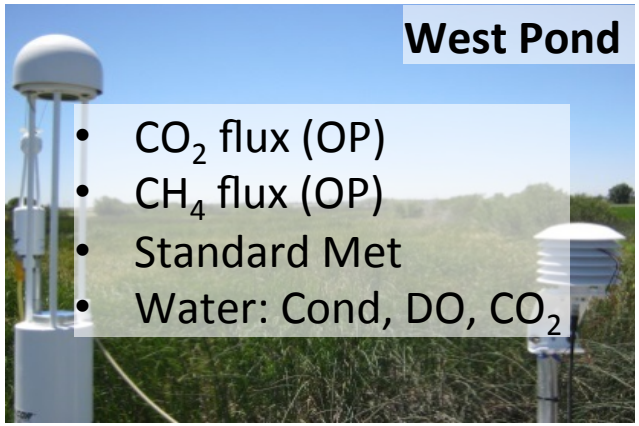
- Describe differences in the fluxes of CO_2, CH_4, H_2O, and energy between different land uses
  - Can restoring wetlands reverse subsidence, be a net greenhouse gas sink, and be economically feasible?
- Understand the mechanisms controlling these fluxes and their spatial variability
- Use ecosystem modeling to apply these mechanisms under different environmental scenarios

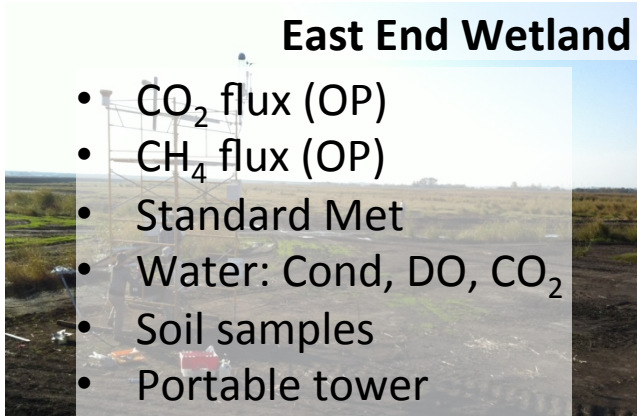
Site Instrumentation

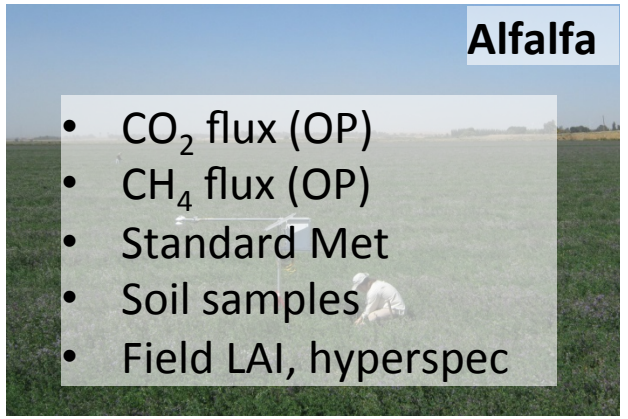






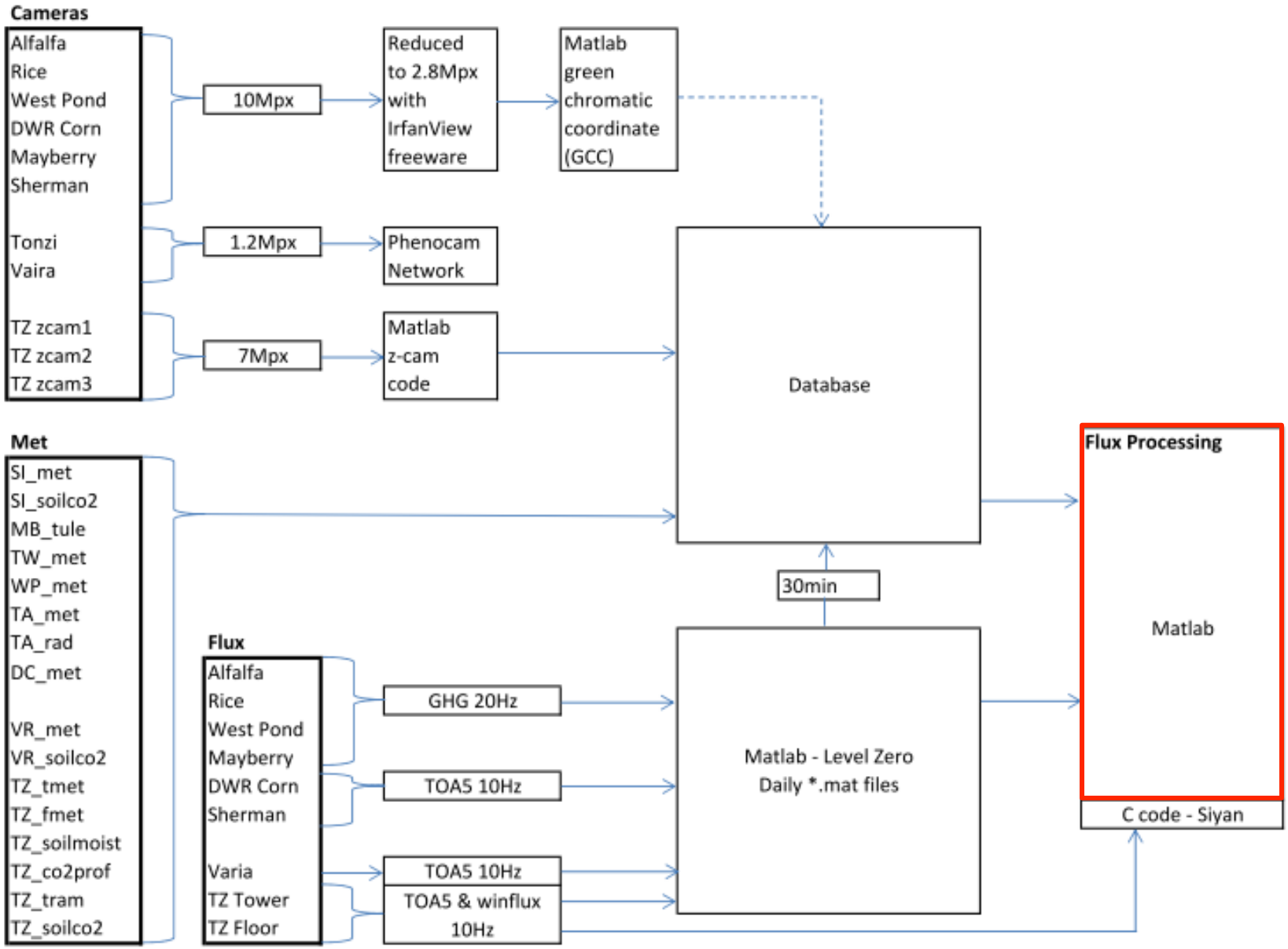






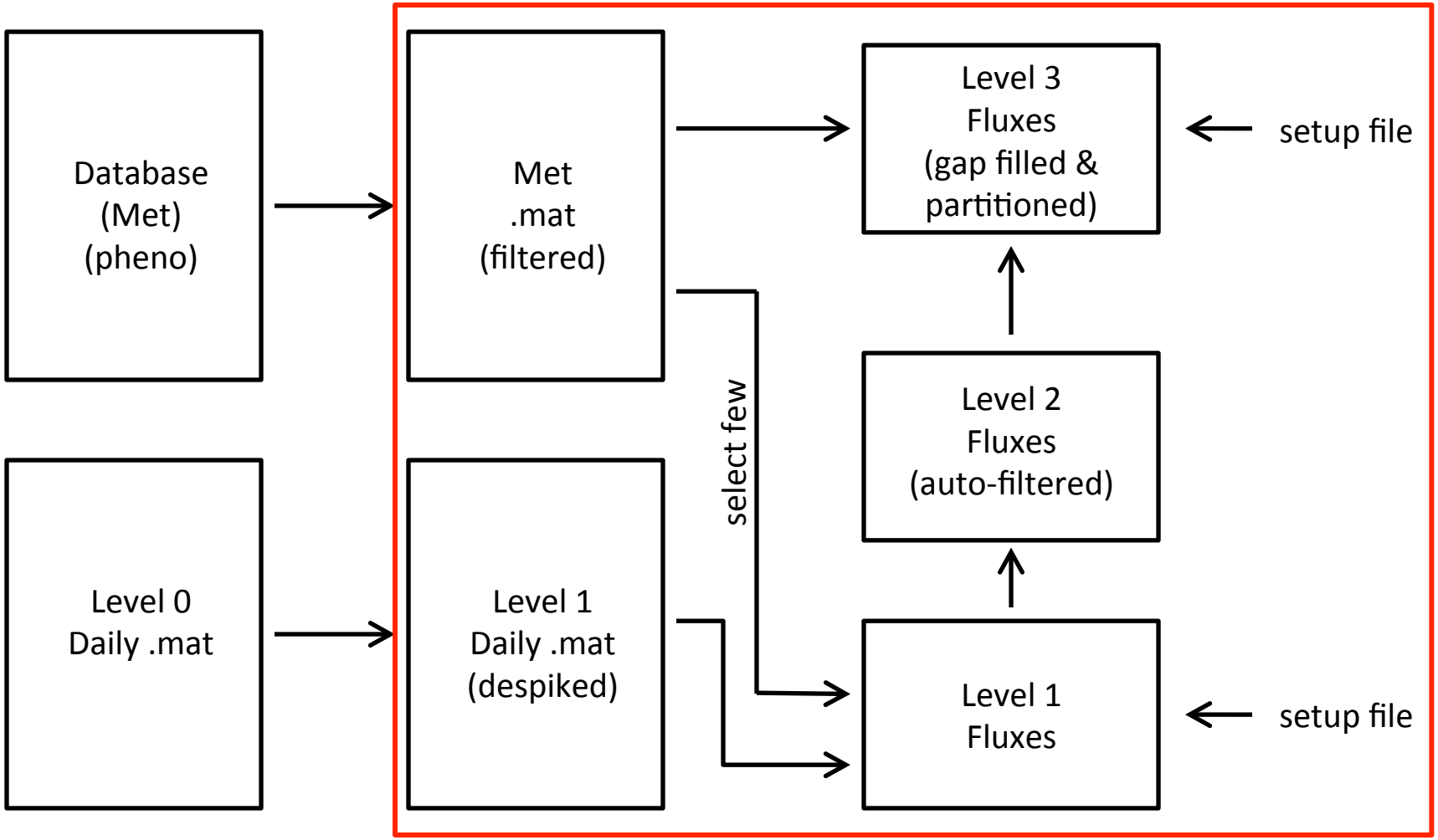
- Standard Met = Ta, Ts, RH, Press, Precip, Soil moisture, Water table, Radiation (shortwave & longwave, incoming & reflected), GHF, Phenocam

Raw Data Processing

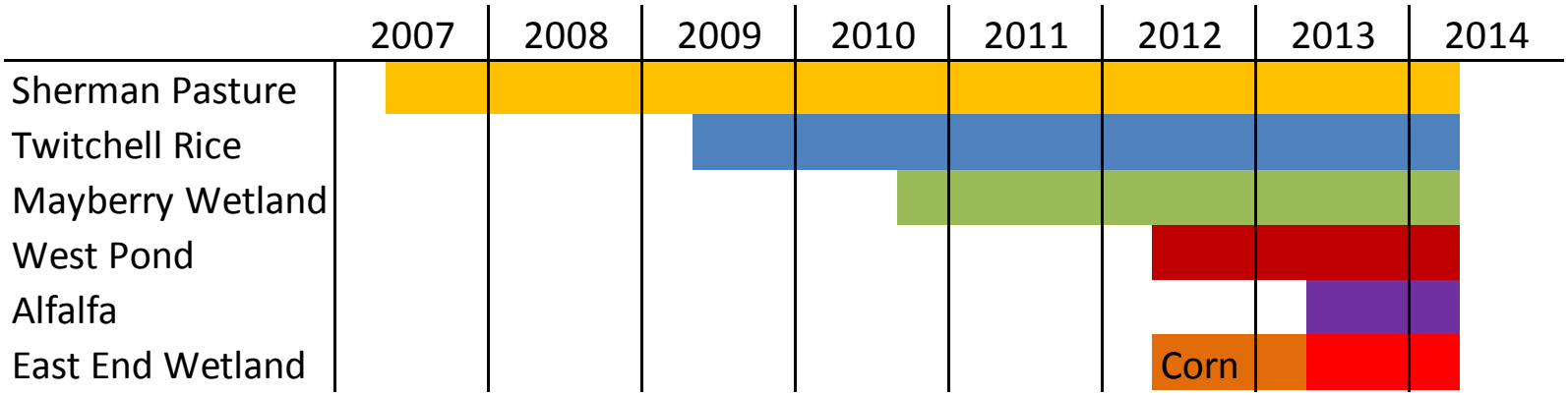


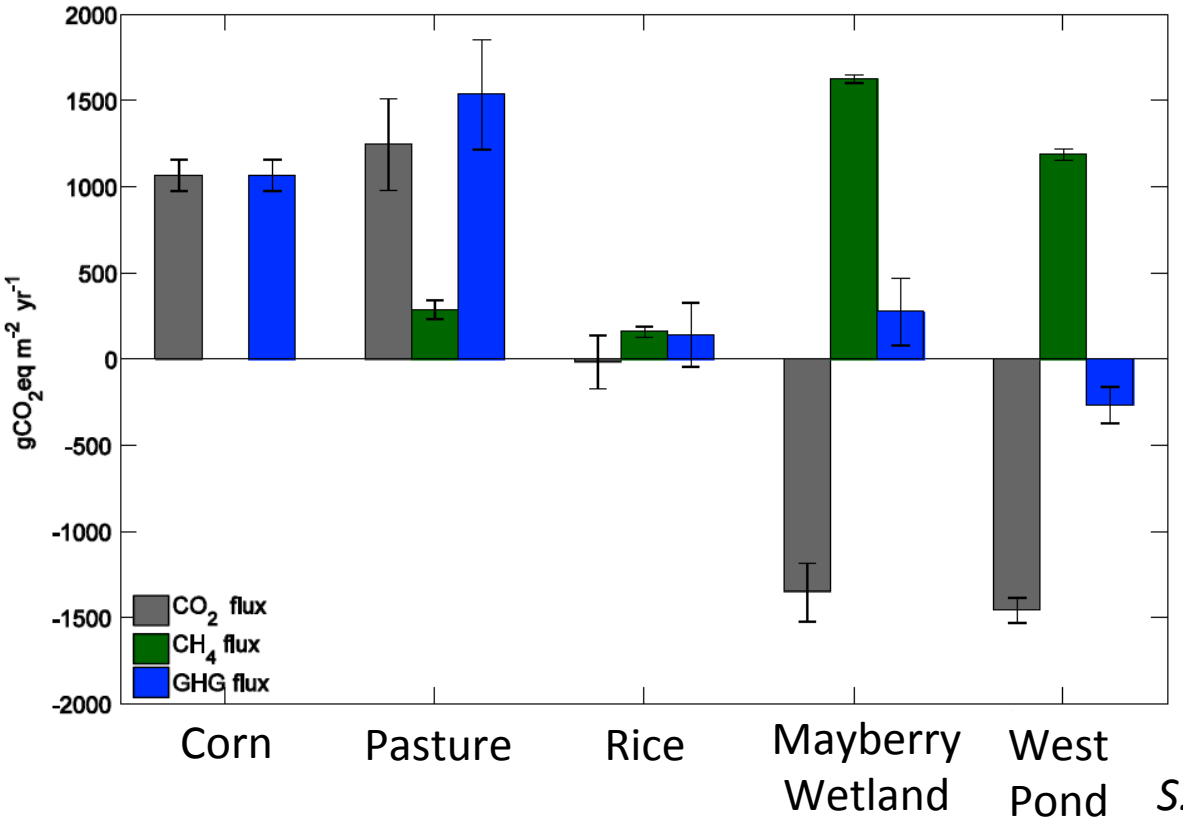
Centralized Flux Processing

Matlab in-house software



Data Record / Results





S. Knox, 2013 AGU poster

Challenges

- Juggling data streams from multiple sites
  - Developed centralized format/processing for Met & Flux
- Poor data coverage during winter
- Incorporating non-continuous data
- Filling out BADM worksheets

What we want from AMP

- Ease in data submission
- An extra set of eyes
- Help in not “reinventing the wheel”
  - infrastructure
  - data transmission
  - data organization
- Ease in data retrieval
  - database-like organization of sites
  - easily searchable site/data characteristics
  - linked publications
  - climate data from nearby weather stations