




*Biotic Measurements Subcommittee  
chaired by S. Gage*

- ▶ Organize by class of organisms to be measured
- ▶ Kinds of measurements we want to take
  - presence-absence/identification/temporal aspect
    - use of automated audio technology
  - movement of organisms
  - location of organisms
  - density of organisms
    - capture-recapture
  - activity

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- Volume/biomass of organisms
    - Laser range finders for bole measurements
  - Rates of growth
  - Phenology
  - Carbon flux
  - Carbon pools (above and belowground)
  - Canopy structure
    - LIDAR
    - Hemispherical photos/radiometers
    - High resolution photography for grasses
  - Genetic identification
  - Litter fall and standing crop
  - Tree ring width

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- Bacterial/fungi counts, production, function
  - Time series of processes
  - Wood density
  - Flows/residence time of organisms
    - NEXRAD
  - Feeding behavior/diet/defecation
  - Optical density and upwelling radiance
  - Trace gas flux
  - Human use
  - Harvests
  - Nutrient flux
  - Reproduction

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- Mortality
  - Land cover
  - Reflectance at high spatial, temporal, spectral, and radiometric resolution
  - LAI
  - Stress physiology
  - Immigration/emigration
  
  - State of health (pathogens and parasites)