

II. Chemical measurements

A. Inorganic chemical budgets

1. Continual monitoring (conductivity, O₂, CO₂)
2. Intermittent (anions, cations)

B. Organic chemical budgets

Carbon, nitrogen and phosphorus budgets, and compounds of known biological activity for which monitoring techniques exist or can be developed.

III. Biological measurements

A. Spatial changes

1. Populations: remote sensing (e.g., sonar, thermal detection, radar, photography)
2. Individuals: remote sensing (e.g., telemetry, photography)

B. Temporal change

1. Phenology
2. Circadian
3. Succession (photography)

C. Metabolism (individuals and populations)

1. Photosynthesis
2. Respiration
3. Water balance
4. Calorimetry
5. Radioactive isotope tags

D. Standing crop

1. Plants
2. Animals
3. Decomposers

E. Production, consumption, elimination

1. Plants
2. Animals
3. Decomposers