Monthly net carbon storage (Mg / ha)

Deciduous forest (HFEMS):
3.0 Mg/ha net annual C storage

Hemlock forest:
4.3 Mg/ha net annual C storage
Measuring carbon and water exchange of a forest by the eddy covariance method

Flux source area: \( = f(\text{canopy structure, wind speed, wind direction, turbulence}) \)

Evapotration

Photosynthesis

Eddy covariance tower

Sonic anemometer and air intake port

Transpiration

Evaporation

Water loss

Carbon loss

Carbon storage

Soil respiration

Shed with gas analyzer and computer