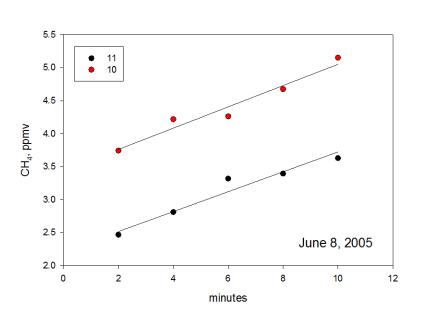


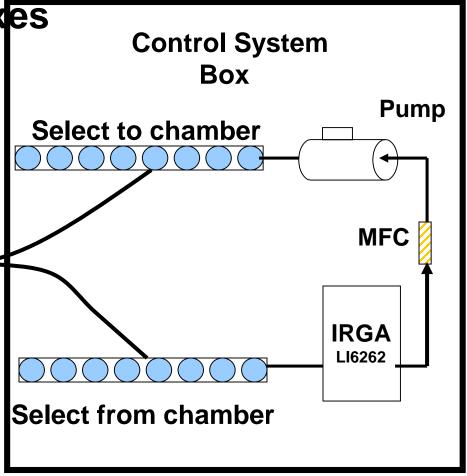
Manual Chamber Fluxes

- CH₄: Grab samples taken during chamber measurements; analyzed on an GC-FID
- CO₂: IRGA (LiCor 6200) analyzes air from chamber headspace; calculates NEE





Automated Chamber Fluxes



Clear Lexan Boxes

 $0.07 - 0.08 \text{ m}^3 (5)$

 $0.14 - 0.16 \text{ m}^3$ (5)

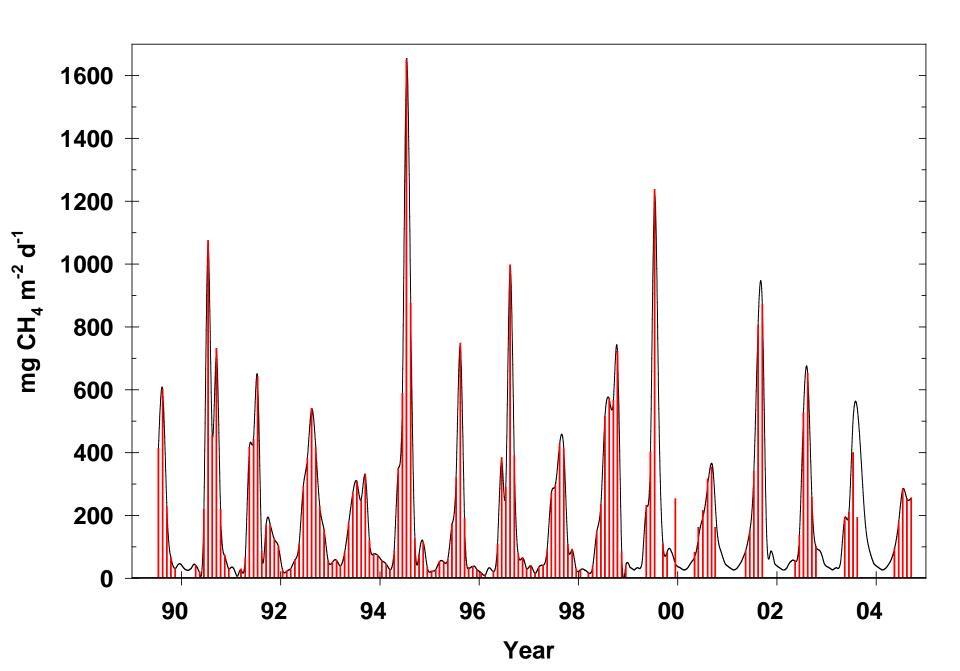
Distributed Return Manifold

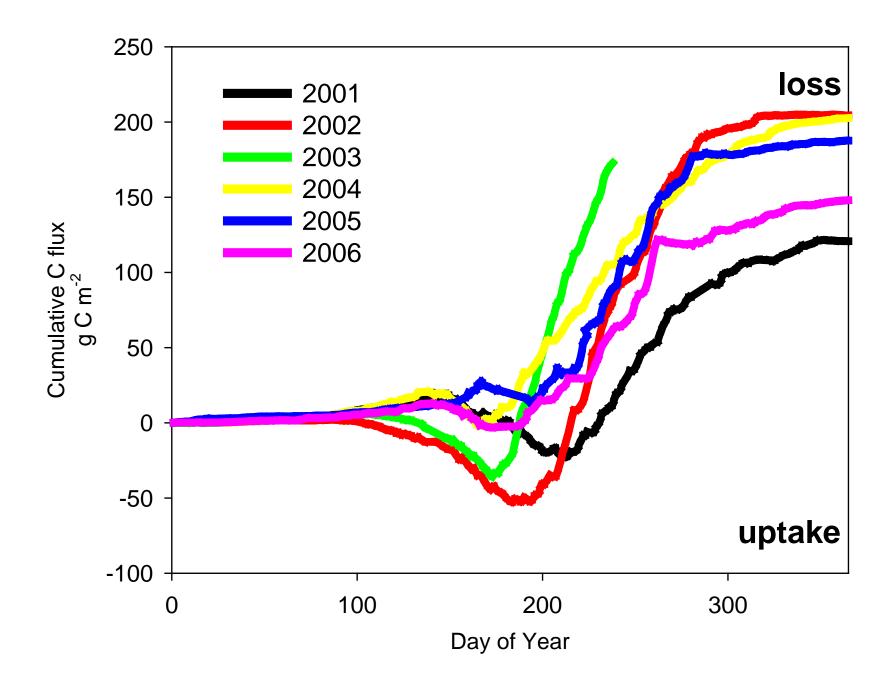
Fans mix headspace

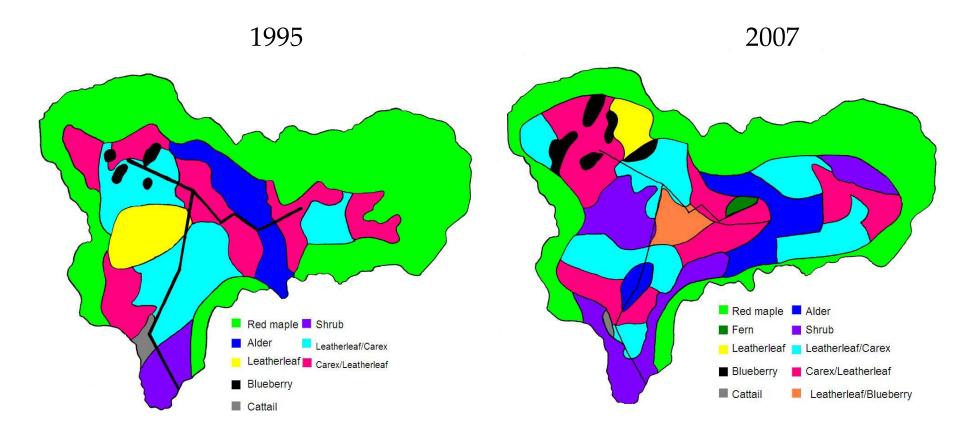
A flux every 20 minutes

96 fluyes per day

Sallie's Fen, NH monthly averaged CH₄ flux







Vegetation survey maps of Sallie's Fen from 1995 and 2007.





Automated chambers at Harvard Forest



Tapajos autochambers





Dark Aluminum Boxes ~0.04 m³ (8)

6 x's / day (high frequency, half hourly measurements)



Distributed Return Manifold No Temperature Control

