Scientific approach:

(1) Combine top-down [consumption-based models] and bottom-up [production based models] approaches to describe Georges Bank food webs

(2) Use these analyses as a precursor to dynamic modeling

Principal Tools:

- Linear Network Analysis (Vezina 1999; 2000)
- Nonlinear dynamical modeling (Collie & Delong 1999)

Focus on two major issues:

(1) Imbalance between primary production and fish production. "Leakage" hypothesis v. microbial web dynamics.

(2) Magnitude of top-down (fish) v. bottom-up (microbial web) processes.