

# Dr. Wendy Gentleman



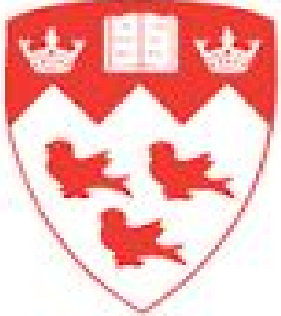
Associate Professor

Department of Engineering Mathematics, Faculty of Engineering  
X-Appt Department of Oceanography, Faculty of Science



# BACHELOR'S IN MECHANICAL ENGINEERING (HONOURS)

McGill

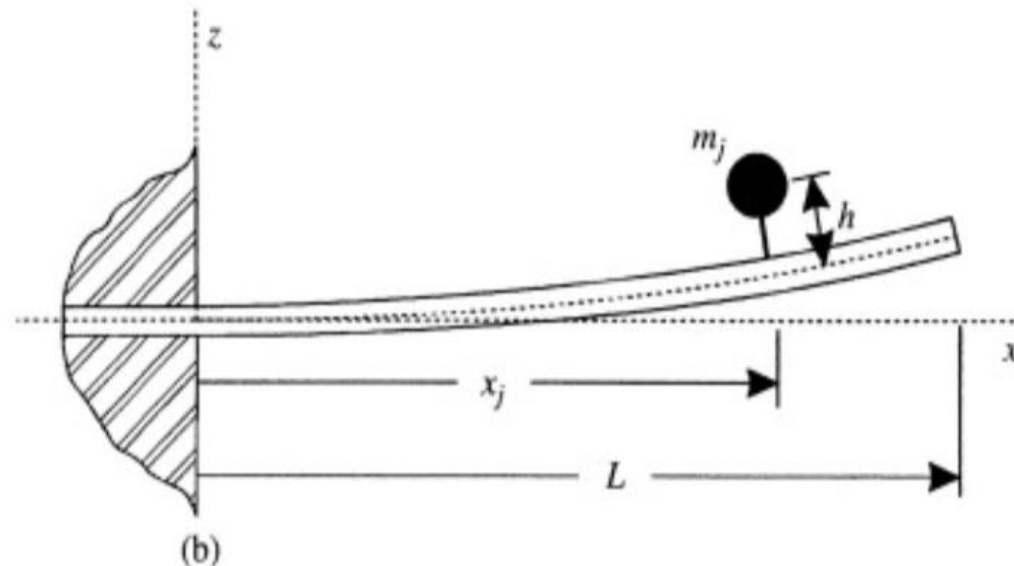


Mechanical  
Engineering

Montreal  
PQ, Canada

Honours = Lots of Math + Thesis

Solving equations describing the motion of cantilevered pipes conveying fluid with a point mass at the free end



Curiosity driven + applications to liquifaction of natural gas, ocean mining, and lithography

# ON GRADUATION, I CHOSE TO APPLY MY SKILLS AND KNOWLEDGE TO ENVIRONMENTAL PROBLEMS



Mechanical Engineering  
(dynamics of machines)



Ocean Ecosystem Science  
(dynamics of zooplankton)

# PhD IN ENVIRONMENTAL ENGINEERING

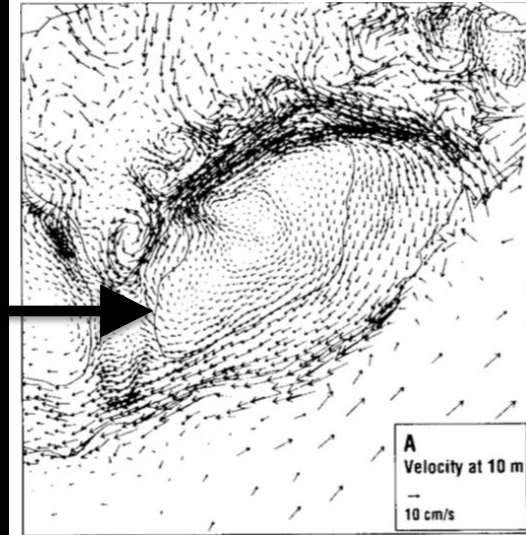
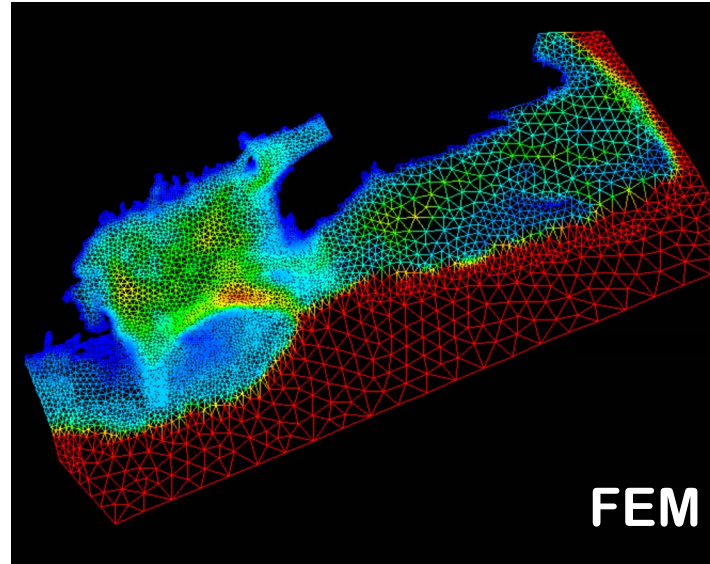


THAYER SCHOOL OF  
ENGINEERING  
AT DARTMOUTH

Hanover, NH, USA

Ocean  
Circulation  
modeling

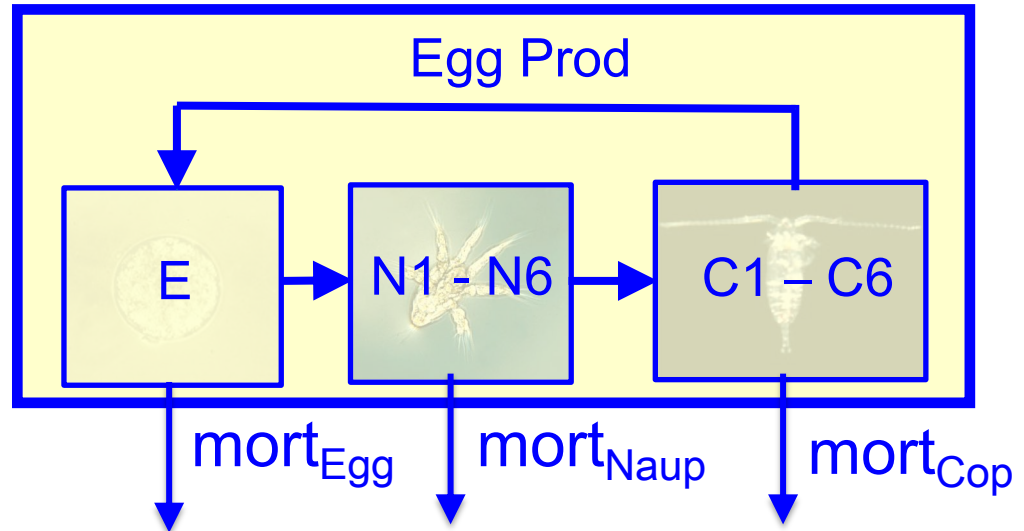
coupled with



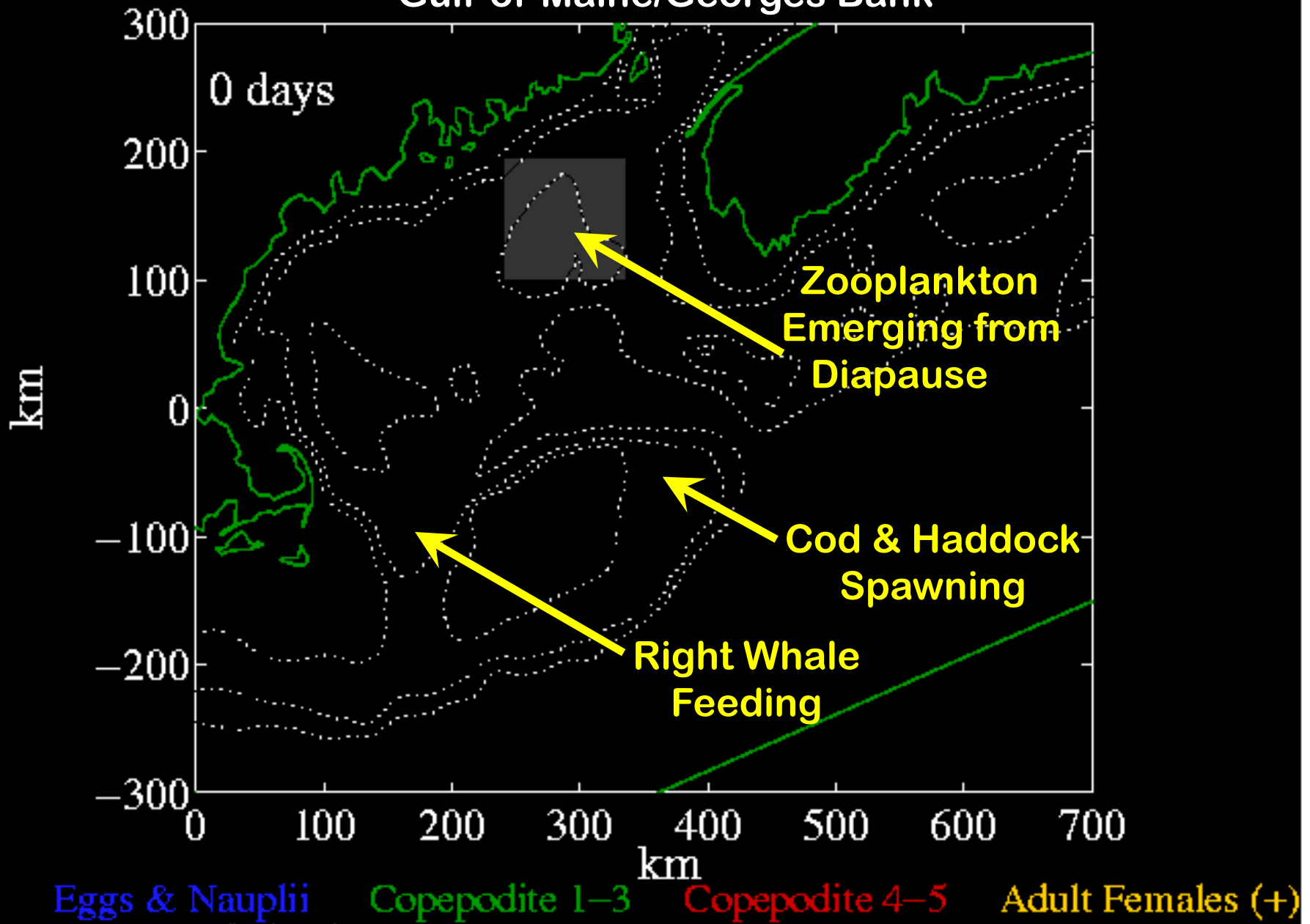
Zooplankton  
Population Dynamics  
modeling



Woods Hole, MA, USA



# Gulf of Maine/Georges Bank

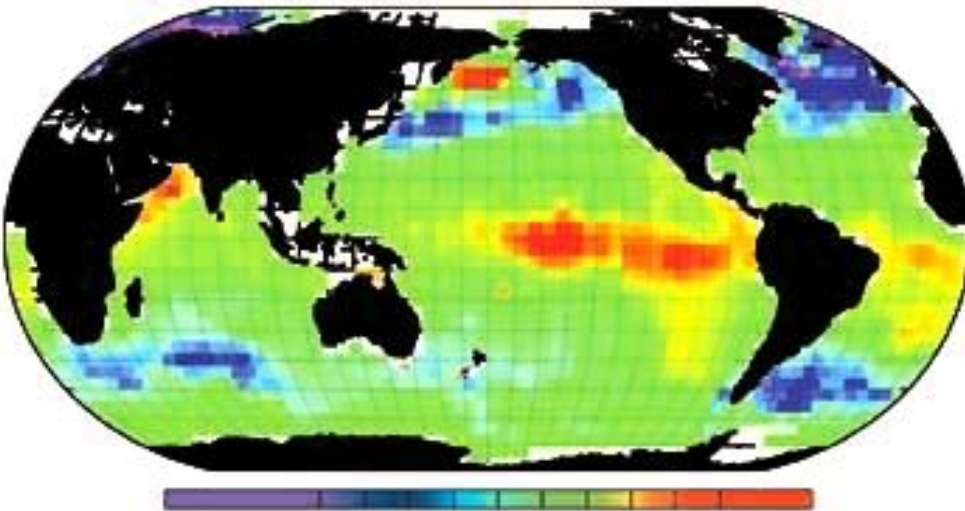




# POST-DOC IN OCEANOGRAPHY

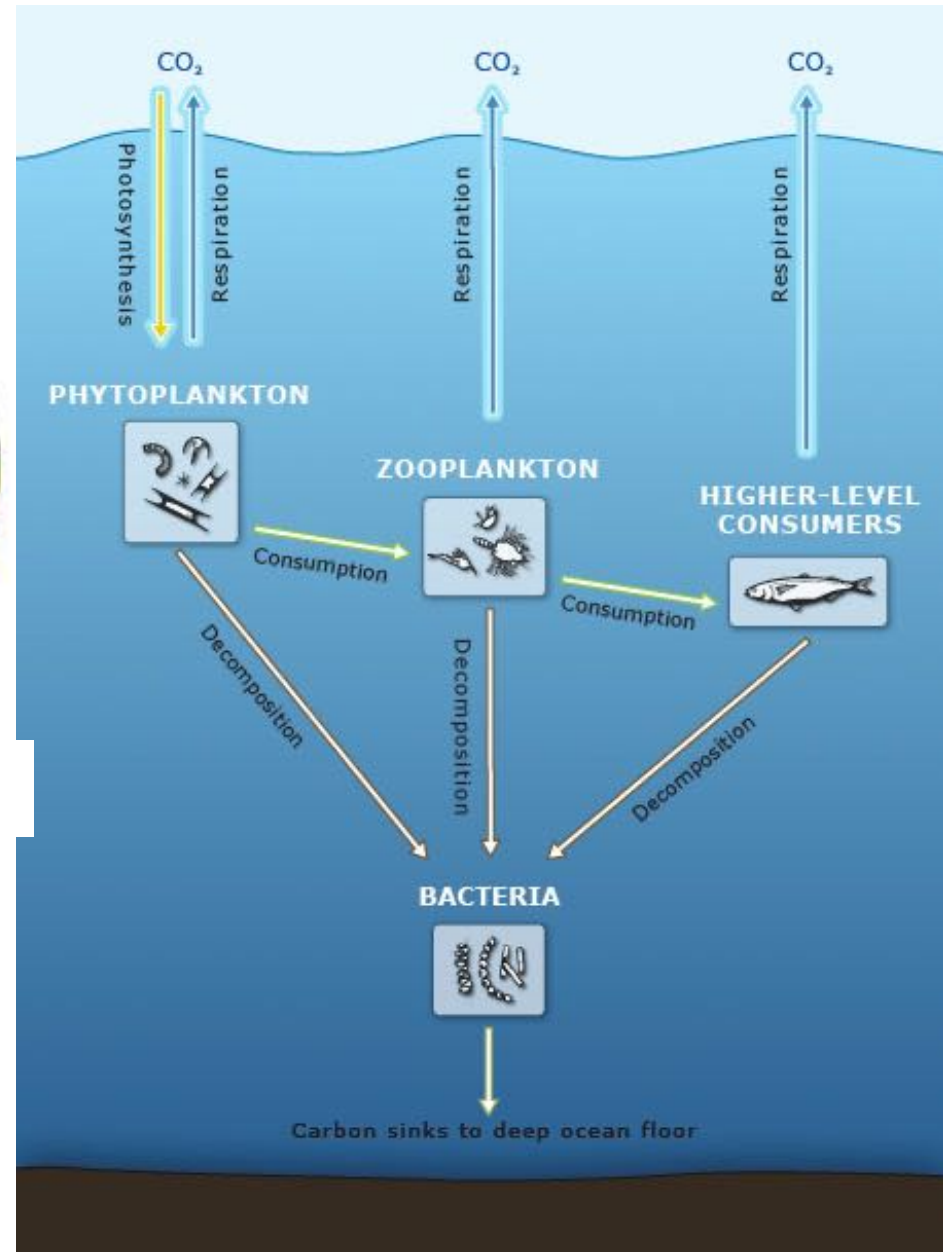


School of Oceanography  
University of Washington  
Seattle, WA, USA



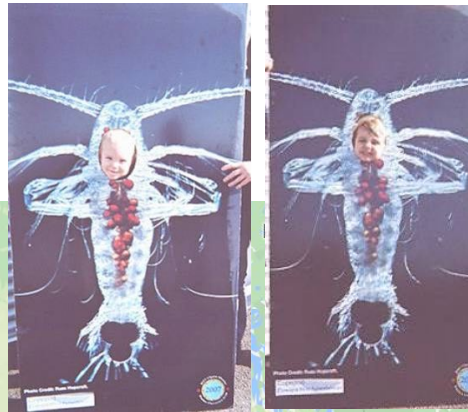
Sink Air-Sea CO<sub>2</sub> flux **Source**

Modeling zooplankton control  
of HNLC ecosystems  
(where CO<sub>2</sub> fluxes are big)



Like Salmon, I returned home (= Canada + Eng. + Math)

to spawn  
(literally)



& to spawn my career  
(research and training)

My kids as zooplankton

U. Washington  
Post-Doc  
(Bio & Chem Ocean)

&  
Salmon  
in the  
Classroom  
Hatchery  
Guide

McGill  
B.Eng  
(Mech Eng)  
&  
Math Tutor

Dartmouth  
PhD  
(Enviro Eng)

AAAS  
Mass Media  
Fellow

WHOI  
(Bio Ocean)

Prof  
(Eng Math  
& Ocean)



**DALHOUSIE  
UNIVERSITY**

*Inspiring Minds*

\*I was first Dal Eng prof to take maternity leave