

**Life histories of the planktonic copepods,  
*Calanus finmarchicus* and *Calanus  
helgolandicus*: Advances in understanding in  
the Gulf of Maine and across the North  
Atlantic**

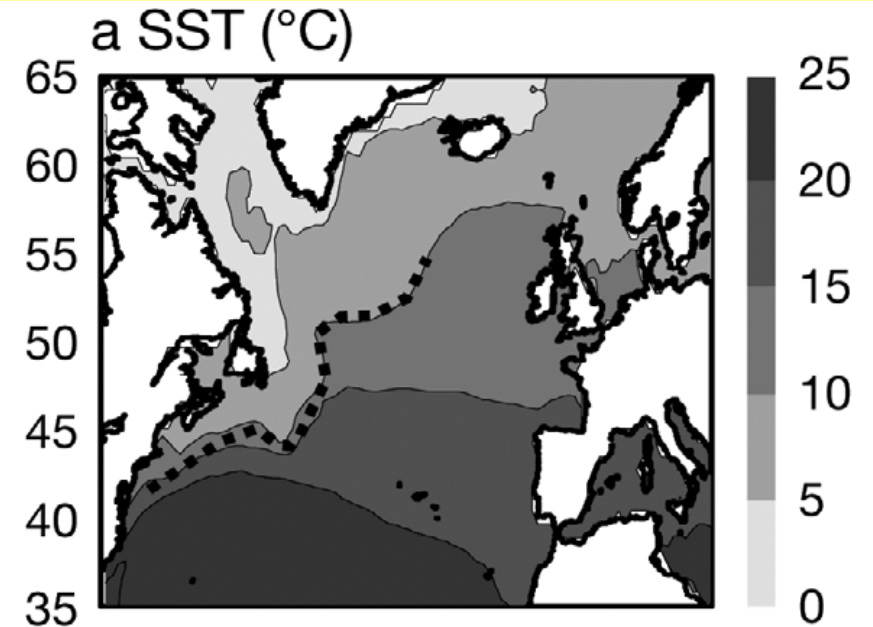
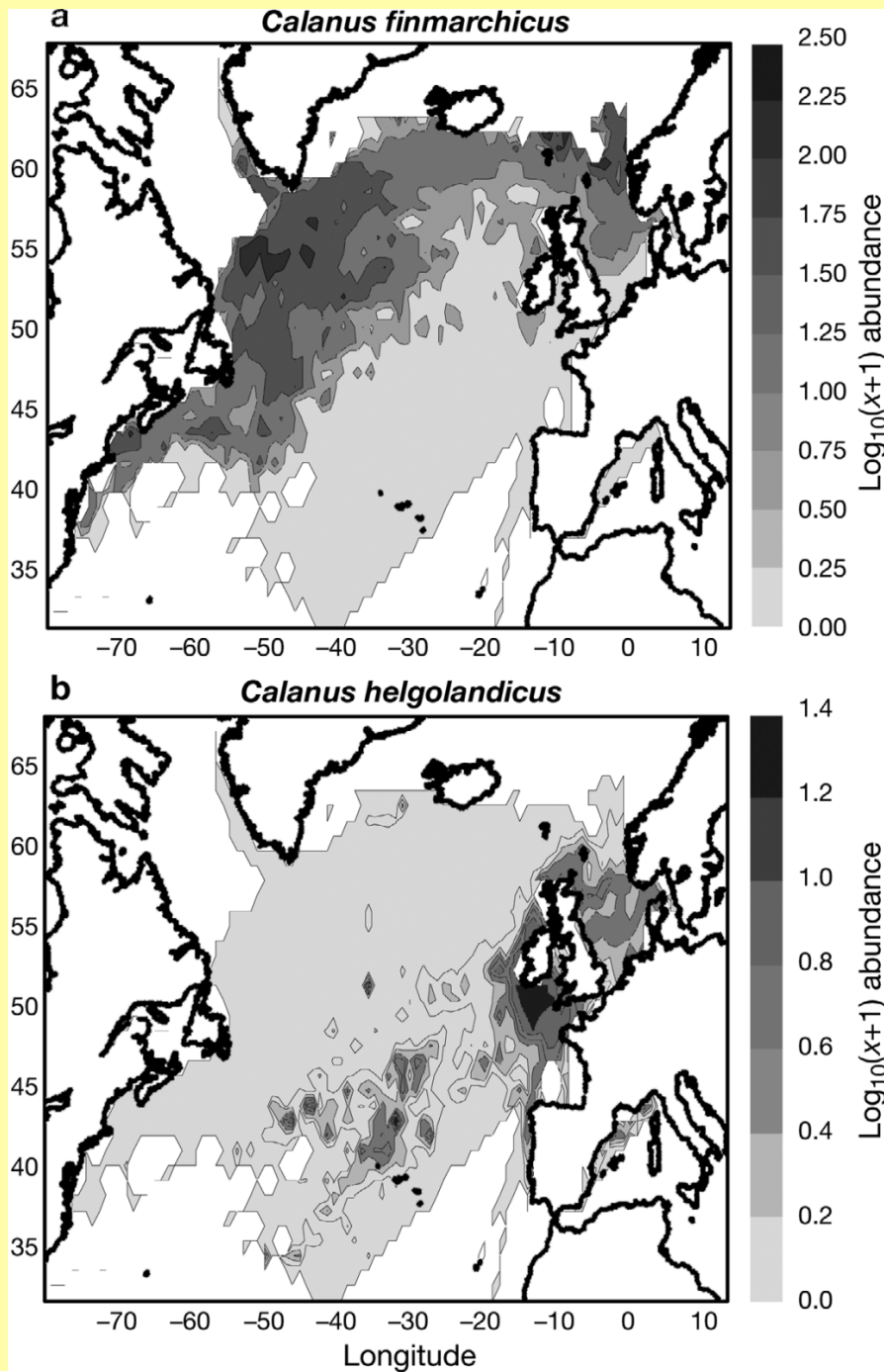
March 22, 2010  
Portland Regency Hotel  
Portland, Maine



## *Calanus* research in the North Atlantic: some highlights

- Bigelow, H. 1926. Plankton of the offshore waters of the Gulf of Maine
- Marshall, S. M. and A.P. Orr. 1951. The biology of a marine copepod.
- TASC: Transatlantic Study of *Calanus finmarchicus*: 1996-1999
- U. S. GLOBEC Pan Regional Synthesis: 2008-2011
- BASIN (Basin Scale Analysis, Synthesis and Integration): 2011-2015

1958-2002



Helaouët & Beaugrand.  
2007. Macroecology of  
*Calanus finmarchicus* and *C.*  
*helgolandicus*

# Meeting Objectives

- Review present capabilities in terms of model development and data needs
- Exchange information on available demographic and vital rate data for two species of *Calanus* in the North Atlantic, *C. finmarchicus* and *C. helgolandicus*, throughout their range.
- Identify willing participants in data analysis for large scale comparative studies of *Calanus* across the whole Atlantic, encompassing the entire range of both species, and using the compiled data sets.
- How to move forward: Make a tentative timetable for completion of analysis related to the compiled data sets and a timetable for data access

# Morning Agenda

## I. Status of *Calanus* life cycle modeling (NW Atlantic)

- 09:00-09:15 Welcome and meeting introduction (Jeffrey Runge)
- 09:15-09:40 **Frédéric Maps** (Univ. Maine and Gulf of Maine Research Institute). IBM modeling: *C. finmarchicus* in the Gulf of Maine and Gulf of St. Lawrence
- 09:40-10:05 **Andrew Pershing** (Univ. of Maine and Gulf of Maine Research Institute). Challenges to coupled modeling and climate change scenario testing
- 10:05-10:30 **Dennis McGillicuddy** (Woods Hole Oceanographic Institution). Inverse models of *C. finmarchicus* in the North Atlantic.
- 10:30-10:45 Break
- 10:45- 11:10 **Rubao Ji** (Woods Hole Oceanographic Institution). A modeling study on processes controlling the biogeographic boundary of *Calanus* copepods in the North Atlantic - Arctic region
- 11:10- 12:00 Plenary discussion
- 12:00-13:00 Lunch and poster opportunity

# Afternoon agenda

## II. Data Module: “*Calanus* data in the North Atlantic: the who, what, where and when”

13:00-13:20	Jamie Pierson (Univ. Maryland)/Peter Wiebe (WHOI)
13:20-13:40	Roger Harris (PML, UK)/Delphine Bonnet (Univ. Montpellier II, France)
13:40-14:00	Webjorn Melle (Institute Marine Research, Norway)
14:00-14:20	Astthor Gislason (Marine Research Institute, Iceland)
14:20-14:40	Break
14:40-15:00	Erica Head (Bedford Institute of Oceanography, Canada)
15:00-15:20	Catherine Johnson (BIO, Canada)
15:20-15:40	Stéphane Plourde (Institute Maurice Lamontagne, Canada)
15:40-16:00	Jeffrey Runge (Univ. Maine and GMRI)
16:00-17:00	Plenary

## III. Reception and poster opportunity (open to all): 17:00-19:00