W7: Climate Forcing and Marine Ecosystems Workshop

Friday, October 13, 2006

Co-Convenors

- Kerim Aydin (U.S.A.)
- Jacquelynne King (Canada)
- Akihiko Yatsu (Japan)

CFAME Workpan

Three main stages outlined in CFAME Task Team's Terms of Reference (May 2005)

Mechanisms

- conceptual models of key biological processes in relation to climate forcing
 - growth, survival recruitment
- comparison, based on common methods, of key species and different life history strategies
- January 2006 Workshop in Japan
- presented at PICES/GLOBEC Symposium on "Climate variability and ecosystem impacts on the North Pacific: A basin-scale synthesis" April 2006, Honolulu, U.S.A.
 - A. Yatsu and CFAME Task Team "Mechanistic linkages of fish population dynamics to climatic forcing: Comparative study on selected stocks representing five life history strategies in the North Pacific"
 - manuscript submitted

CFAME Workpan

2. Ecosystems

- review and develop ecosystem indices
 - represent key processes linking climate, ocean and biology
 - review key ecosystems and outline conceptual mechanisms that link climate forcing to biota
 - identify **regional indicators** of interest and applicability for use in Scenarios
- October 13, 2006 Workshop in Japan
- changes in ecosystem structure in respons to climate forcing
 - in preparation for 2007 joint POC/CFAME collaboration

CFAME Workpan

3. Scenarios

- build upon identified mechanisms to investigate range of species and ecosystem responses to cliamte forcing scenarios and forecasts
 - distributional changes
 - changes in ecosystem community structure
 - changes in survival at life stages
- upcoming POC/CFAME workshop in 2007 for climate modelers to provide regional indicators identified in this workshop, and for CFAME to apply climate output to developed conceptual models
 - CFAME Business Meeting Sunday, October 14th 9:00 a.m.-12:30 p.m.

Workshop Objectives

Afternoon session

- methods of classifying ecosystems
- approaches for comparing ecosystem responses
- discussion on future ecosystem comparison work for CFAME
 - building on the overviews and conceptual models identified today
 - overall theme and focus
 - suggest topics for inter-sessional meetings
- in order to complete the "Scenarios" portion of the workplan and future CFAME/POC collaboration:
 - identify climate variables required from POC modelling work
- W7 workshop report and assignment of tasks