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)

1. 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
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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 response to climate forcing
     – in preparation for 2007 joint POC/CFAME collaboration
3. Scenarios

- build upon identified mechanisms to investigate range of species and ecosystem responses to climate 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