

**Humboldt Bay Ecosystem-Based Management Program  
Advisory Team Meeting – October 19, 2007**

**Introductions and Directions:** S. Schlosser reviewed the meeting procedures: first hour entire committee will discuss overall program logistics; second half subcommittees will continue proposal development.

**September 21 Notes:** no changes.

**Plan West Presentation:** George Williams, part of the consulting firm consisting of anthropologists and historians, could not attend this meeting. The presentation on the Humboldt Bay Ecosystem Cultural Resources Inventory Project, that includes agriculture, fishing, and timber, will be at the November meeting.

**North Coast Integrated Regional Water Management Plan Conference:** Plan encompasses seven northern California counties (Water Quality Control Board Region 1). Humboldt County is administering the \$25 million grant of 23 projects throughout the counties. Thirty-seven million is secured for second round of proposals. NCIRWMP Technical Team encouraged EBM group to register project on their website (<http://www.northcoastirwmp.net/>); some of the EBM projects might be eligible for these funds.

**Monterey Bay Research Institute:** Dr. Steven Ramp, hosted by Frank Shaugnessy, visited the area to review potential funding for local projects through their organization. This year HSU will submit proposal for CICORE; next year possible funding source for EBM projects. Frank is the local representative on the CenCOOS board. They accept proposals for equipment, outreach, product development and data management.

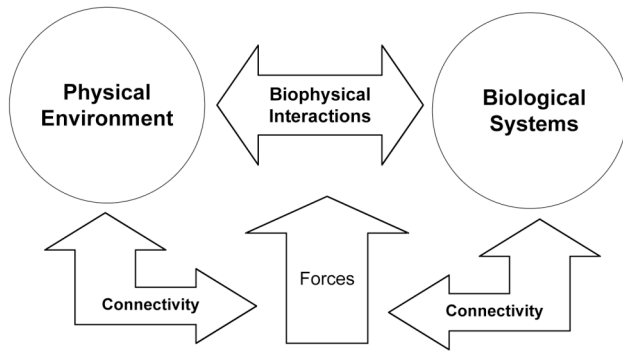
**OPC Draft presentation:** Public input limited to 3 minutes so Susan did not prepare a PowerPoint presentation. She will review the background of the EBM Project, building on the HMBP and HBWAC Watershed Plan and describe the accomplishments to date. Suggestions from Advisory Team: handout with map and bullets describing program, names and affiliations of Advisory Team members; emphasize integration of estuarine, nearshore and ocean processes, managing those connections; mention previous funding to Harbor District for initial EBM groundwork through Ocean Sciences Trust.

**Conceptual Model:** Pete Nelson, Diane Ashton and Susan developed preliminary model. Reviewed conceptual model papers and refined information for local area.

**Objectives:** start with broad scale, ecological model; consider human input from ecosystem based management perspective; use model to identify data gaps and approach for projects in the beginning to realize total impact

**Assumptions:** use simple diagram, landscape end of the spatial scale as opposed to smaller habitat model; principle problem is lack of understanding between structural and functional ecosystem relationships and natural variability

**Model:** ecosystem approach



forces: affecting entire system - global economy, climate, ocean dynamics  
physical: currents, sediment movement, physical infrastructure created by humans  
biological: species, human activities  
biophysical interactions: habitats; interactions back and forth between physical and biological systems  
connectivity: trophic interactions, feeding patterns, migration

Lacking knowledge of “The Big Picture”, what’s happening in our ecosystem and affects of interactions.

Discussion:

*Were physical processes considered?* This model doesn’t account for flows; the model is general and broad. Model encompasses all scales of connectivity.

*Review the forces.* The forces impinging on the ecosystem: climate, climate change, global economy, sedimentation, seismic, tectonic, tidal currents. Forces have effect on entire ecosystem; encompass entire ecosystem, linkage between entire system

*What is the scale of the forces?* Publications started with general model

*What does connectivity represent?* Connection between forces and biological systems and physical environment. Data gap regarding effects of ocean dynamics and Humboldt Bay. Forces are direct result of system components.

*Model is general.* Next step is to relate specific attributes to Humboldt Bay, how the forces work on our particular ecosystem

*View forces as three headed arrow.* Forces are external drivers, modify how biological and physical systems interact.

*Interactive general model.* General concept broken down into component parts for specific aspects of system.

*Alaska model closest to local concept:* have local artist depict Humboldt Bay and interactions to create pictorial view of ecosystem. Morro Bay brochure has text explaining each symbol on picture.

*Don’t allow details of conceptual model stop the proposal process.* Create skeleton model for immediate use and develop a proposal to refine details including pictorial view of ecosystem and database of local information, all influences to the ecosystem. For next meeting, state purpose of model and how ecosystem works, common ground for proposal consistency. Each subcommittee can develop specific model for their portion of the overall conceptual model. Have a member of each subcommittee report to the conceptual model committee to incorporate all aspects into final version. Conduct literature review for summary of general model concepts and develop long term proposal for specific ecosystem components.

Subcommittee meetings: