

**Humboldt Bay Ecosystem-Based Management Program
Advisory Team Meeting – November 16, 2007**

**NEXT MEETING – FRIDAY, DEC 14, 2007
9 AM TO NOON
Humboldt Aquatic Center
921 Waterfront Drive, Eureka**

Meeting Process: Susan Schlosser reviewed the Advisory Team ground rules: during regular meetings, discussions will include Team members; public comments are heard at the end of each session; during subcommittee meetings, invited participants and general public can participate in the discussions at any time; only Team members can vote on issues.

Announcements:

- West Coast Governors Agreement Draft Action Plan is available online; written comments are due by Dec. 1.
- Humboldt Bay Symposium 2004 Proceedings are available from Susan Schlosser; \$70 hard copy, \$10 CD
- January Advisory Team meeting on the 25th; December meeting on 14th.
- EBM Public meeting set for February 8 at the Ag Center to present progress to date and receive public input; members from each subcommittee will summarize their proposals.
- Plan West, completing the historical inventory of Humboldt Bay cultural resources, will make a presentation at the Dec meeting
- Susan met with the OPC and Resources Legacy Fund personnel who said they meet with groups to discuss their proposals and funding sources. They can attend an Advisory Team meeting to review the proposals once they are completed. Kathy Moxon, Humboldt Area Foundation, is interested in the program. Susan and Mark Wheatley will give a presentation to their Board of Directors.

October 19 minutes: no changes

Subcommittee Reports:

Arts and EBM: Susan, Julie Neander, Paula Golightly created a list of existing school projects dealing with the ecosystem; discussed possible competition to develop graphic representation of conceptual model; community project ideas to get students involved with the bay (mural of the ecosystem, plays, music, poetry); connect with students through the Arcata Arts in the Afternoon program; develop proposal to fund programs for students as outreach for EBM program

Biological Resources: reviewed issues developed at the July Advisory Team meeting; each member discussed their priority issues, estuarine restoration was top priority with many aspects such as habitat mapping, comprehensive restoration plan, project evaluation, isotope study to look at trophic interaction of species in the bay.

Cultural/Socioeconomic: focus on economic/cost benefit matrix; process model to evaluate economic aspects of restoration projects in historic tidelands, ie restoring ag land to estuary, loss

of grazing but gain habitat. Steve Hackett no longer available so the subcommittee would like suggestions for other participants; Ernie Nemi, Eco Northwest, Carrie Pomeroy, Sea Grant Extension social scientist, are possibilities.

Discussion: Joel Gerwein stated that the OPC is interested in regional fisheries management proposal, innovative approach, ie alternative gear testing. Committee would like to focus on area of the Governors Agreement referring to economic benefits to coastal communities; sea level rise in conjunction with other subcommittee proposals; proactive approach of economic productivity based on the bay resources and possible improvements; incorporate Plan West information on historical and cultural resources of Humboldt Bay into future impacts; complete a gross inventory of land type/use and infrastructure without specific ownership; wave energy and socioeconomic impacts.

Water Quality/Physical Processes: Four potential proposals

- circulation model – complex 2D/3D model of the bay processes; can take days to generate information
- Management model – simplified model to link the bay and watershed for evaluating different management activities and processes
- Collect baseline water quality/physical processes, focus on the bay with some watershed input
- Complete bathymetry/topographic mapping of the bay

Conceptual Model: Bayesian model (software); method for drawing arrows/connection within the ecosystem and allows you to portray the confidence in connections; flexible enough to update information; synthesize and integrate information, qualitative and quantitative; use to identify data gaps/uncertainty.

Revised conceptual model – descriptive tool for ecosystem interactions between the ocean, bay and watershed with different scales of variability and human aspects (see graphic). Proposals can be included in the model to show projects connections and areas not being addressed.

Discussion: Bayesian model is analytical tool for projects, can be used to develop a proposal for detail analytical tool; conceptual model shows project connectivity.

Implementation: Develop Principals of Participation, decide on critical entities to establish EBM; create matrix with all entities within primary, secondary and tertiary boundaries; include all groups and organizations. Create background report on implementation requirements for EBM, who are stakeholders.

Discussion: EBM is based on stakeholder involvement but Advisory Team doesn't represent everyone. Projects can include public by utilizing citizen science for data collection; get direct participation and critical information. Involve agencies with authority to establish standardized protocols

Technical Capacity: Chris Will, NOAA Coastal Services Center, Charleston, South Carolina will develop and deliver survey of local data managers (private and public)