

Chapter 2: What Do Managers Need? – Ecosystem Based Management for the Ocean

1. Managers are looking for tangible advice for moving forward with ecosystem management implementation (p.13). **Who are the managers?**
2. What two big picture goals form the basis for developing EBM for a given location (p.13)? **What are ecosystem services?**
4. Watch 'Man': Steve Cutts <https://www.youtube.com/watch?v=WfGMYdalCIU>
 1. Setting goals that include the full range of ecosystem services
 2. Determining the spatial scale for management planning
 3. Integrating across sectors of human activity
 4. Accounting for the cumulative impacts within and across sectors
 5. Making decisions under uncertainty

How does man ignore the 5 principles (below) that can guide the development of an EB approach?
What are the incentives and disincentives that arise when applying these principles?
What could have been done better?

5. “ Getting managers to take on EBM, with its new controversies, broader constituencies, and more complex decision making that involves trade-offs and interactions with other sectors, even if it may be the right thing to do, is a major challenge and will require that new mandates and management systems be developed carefully” (p.20) **What locations provide examples of where this is being done well, what are your experiences?**
6. “EBM will not happen without additional human resources and funding, even if the long term prospect is a more coherent and efficient system that better maintains provision of critical ecosystem services” (p.20) **Where do the funds and resources come to continue to maintain biodiversity in areas where ecosystem services do not have market values?**
7. This is a contentious enough environment as is, how do scientists overcome the challenge of providing advice and data to drive management decisions? (this is where we all come in to the picture, data management) **To implement EBM effectively , what do managers need?**

“ Within sector approaches working towards a more comprehensive system”

1. Comprehensive and clear cross-sectorial legal mandate
2. A clear road map of expectations
3. Peer reviewed list of factors that might affect each sector
4. Scientific information that is cross-sectorial and in a geographically specified format
5. A forum for comprehensive ocean planning

“We know enough to begin, and we have tried some of the first steps. Perhaps most importantly, there is a recognition that we need to go beyond the conventional approaches to management of marine resources because sector by sector efforts have too often failed to prevent ecosystem degradation”.
(p.28)

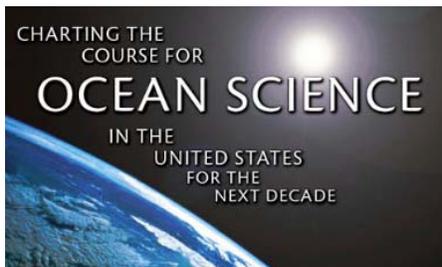


About Ocean Leadership: The Consortium for Ocean Leadership is a Washington, DC-based nonprofit organization that represents 102 of the leading public and private ocean research education institutions, aquaria and industry; working to advance research, education and sound ocean policy. The organization also manages ocean research and education programs in areas of scientific ocean drilling, ocean observing, ocean exploration, and ocean partnerships.

Ocean Leadership's Mission: Ocean Leadership shapes the future of ocean science and technology through discovery, understanding and action.

We provide expertise in managing, coordinating, and facilitating scientific programs and partnerships; influencing sound ocean policy; and educating the next generation of ocean leaders.

Ocean Leadership's Vision: Our vision is a global society that views its own well-being as intimately connected to the ocean.



JSOST (Joint Subcommittee on Ocean Science and Technology). 2007. *Charting the course for ocean science in the United States for the next decade: An Ocean Research Priorities Plan and Implementation Strategy*. Washington, DC: National Science and Technology Council.

JSOST 2007 (p.25)

<http://www.oceanleadership.org/2009/jsost-public-input-requested-on-ocean-strategy-plan/>

Three central elements of plan

1. Capability to forecast ocean and ocean-influenced processes and phenomena
2. Development of scientific support for EBM (data, data, data)
3. Development of an ocean-observing