

### **Message from SAT Chair Steve Barrager Regarding Potential Science Presentations**

The curriculum begins with the fundamentals and builds toward the more complex topics like network design. The objective is to educate people on the key concepts, not to produce a tome on the topics. Thus, the rockfish is singled out for exposition just because it provides a good "story" and illustrates a concept, not because we are saying it is more important than any other creature.

I've assigned names based on recommendations from team members, my understanding of the issues, and expressed interests; these could easily change. The people responsible for a topic will develop about 20 -30 minutes of high quality material for presentation to the BRTF and/or the RSG. The expectation is that the formal material would be followed by thorough discussion.

The following topics are presented in the sequence recommended by the Science Advisory Team:

1. The importance of big, old rockfish. Steve Berkeley and Rick Starr (lead).
2. Movement and home range of rockfish and implications for MPA design. Rick Starr (lead) and Doyle Hanan.
3. Ecosystems. What are they? What happens when species like sea otters disappear? What happens when populations of marine mammals (e.g. harbor seals, California sea lions, sea otters) increase? (this question added by MLPA Steering Committee) What happens when fisherman catch most of the big, old rockfish? What happens when habitat is changed? Etc. Steve Gaines (lead), Steve Palumbi and Mark Carr.
4. Habitats and Oceanographic features on the Central Coast of California. Mary Yoklavich (lead), Rikk Kvitek and Jeff Paduan. Possibly Frank Schwing.
5. Introduction to Ecosystem Services. Astrid and Linwood (lead).  
Consumptive, e.g., fishing  
Non consumptive, e.g., whale watching
6. Consumptive uses along the Central Coast. Fisheries - Recreational and Commercial. What do they catch? Where? When? What is the benefit? Etc. Astrid Scholz (lead).
7. How can MPA's benefit fishery management? Including the need for references; the need for protecting genetic integrity of populations; and the need to protect intact ecosystems. Loo Botsford (lead) and Alec MacCall. (Possibly Ray Hilborn)
8. Non-Consumptive Uses. What are they? How are they measured? How are they estimated? Linwood Pendelton (lead).
9. MPA Network design.  
Role of larval dispersal. Steve Gaines and Steve Palumbi.  
Role of Birds and Mammals in network design. Bill Sydeman.  
Role of biogeography in network design. Steve Murray (lead) and Mary Yoklavich.  
Role of water quality in network design. Kenneth Schiff.  
Relationship between regional and statewide networks. ??

10. Monitoring and Evaluation. Mark Carr (lead), Rick Starr, and Linwood Pendelton.

11. Other Topics?

Let me know if you have questions or suggestions. This is a great opportunity to put this information together in a high quality way. It will surely be used widely if it is clear and concise.