

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Joint Meeting for the South Coast and North Coast Study Regions
Draft Meeting Agenda
(revised October 28, 2009)

Friday, October 30, 2009 at 8:30 AM

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at www.dfg.ca.gov/mlpa/meetings_sc.asp for more information.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 12:35 p.m.** Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the chair; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, or other MLPA Initiative activities should be directed to the task force or MLPA staff.

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Meeting Objectives

- *Welcome SAT members for the MLPA North Coast Study Region*
- *Receive an introduction to the MLPA and the MLPA Initiative*
- *Review SAT charter and operating guidelines*
- *Receive an introduction to open meeting requirements*
- *Receive briefing on the science guidance in the California Marine Life Protection Act Master Plan for Marine Protected Areas*
- *Discuss bioregions for the MLPA North Coast Study Region*
- *Review levels of protection developed for the MLPA North Central Coast Study Region*
- *Form SAT work groups*
- *Select SAT chairs*

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Meeting Agenda - October 30, 2009

Note: The SAT will break for lunch at approximately 11:50 a.m. and public comment will be taken immediately after at approximately 12:35 p.m.

Welcome, Introductions and Review of Agenda

I. Updates

Update on the October 20-23, 2009 South Coast BRTF Meeting

II. Introduction to the MLPA and MLPA Initiative

A. Marine Life Protection Act Initiative Process and Participants

BRIEFING DOCUMENT A.1: MLPA process and participants PPT- Handout

B. Charter of the MLPA Master Plan Science Advisory Team for the North Coast

BRIEFING DOCUMENT B.1: Charter of the 2009-2011 MLPA Master Plan Science Advisory Team

BRIEFING DOCUMENT B.2: Sections from the Marine Life Protection Act Addressing Required MPA and MPA Network Features (from California Fish and Game Code, 2007)

C. Operating Principles for the North Coast MLPA Master Plan Science Advisory Team

BRIEFING DOCUMENT C.1: Operating principles for the MLPA Master Plan Science Advisory Team (Adopted June 26, 2007 and Amended September 9, 2008)

BRIEFING DOCUMENT C.2: Ex Parte Communication Disclosure Form

D. Bagley-Keene Open Meeting Act of 2004

BRIEFING DOCUMENT D.1: A Handy Guide to the Bagley-Keene Open Meeting Act 2004

E. Science Guidance in the California Marine Life Protection Act Master Plan for Marine Protected Areas

BRIEFING DOCUMENT E.1: Guidance on MPA Network Design Taken from the Draft California Marine Life Protection Act Master Plan for Marine Protected Areas, Pages 34-46

BRIEFING DOCUMENT E.2: Overview of the science guidance in the California MLPA Master Plan for MPAs PPT – Handout Placeholder

III. Marine Protected Area Science Guidelines and Evaluation Criteria

F. Review of SAT MPA Evaluation Methods Used in the South Coast Study Region

Potential SAT Action: Approve the methods used to evaluate MPA proposals in the south coast study region

BRIEFING DOCUMENT F.1: Review of SAT MPA Evaluation Methods Used in the South Coast Study Region PPT

BRIEFING DOCUMENT F.2: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA South Coast Study Region (October 26, 2009 Draft)

G. Historical Record of the SAT Process in the MLPA South Coast Study Region

Steve Murray

Potential Action: Approve the document describing historical record of the Marine Life Protection Act Master Plan Science Advisory Team for the South Coast Study Region

BRIEFING DOCUMENT G.1: Proceedings of the Science Advisory Team for the MLPA South Coast Study Region (October 26, 2009)

H. Discussion of Bioregions for the North Coast

Pete Raimondi

BRIEFING DOCUMENT H.1: Introduction to Bioregions in the MLPA North Coast Study Region PPT

BRIEFING DOCUMENT H.2: Draft Summary of Information Supporting Bioregions in the MLPA North Coast Study Region (Revised October 18, 2009)

I. Discussion on Connectivity

Will White

BRIEFING DOCUMENT I.1: MPA Spacing Work Group Progress Report PPT

BRIEFING DOCUMENT I.2: MPA Spacing Work Group Progress Report: Spacing Guidelines and Other Metrics for Connectivity Among MPAs (October 27, 2009 Draft)

J. Levels of Protection Used in the MLPA North Central Coast Study Region

Larry Allen

BRIEFING DOCUMENT J.1: Overview of Levels of Protection Developed in the MLPA North Central Coast Study Region PPT

IV. SAT Operations

K. Form SAT Work Groups

L. Select SAT Chairs

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised December 16, 2009)

Wednesday, December 16, 2009 at 1:00 PM
Thursday December 17, 2009 at 8:30 AM

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website http://www.dfg.ca.gov/mlpa/meetings_n.asp at for more information.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **on December 17 at approximately 12:45 p.m.** Public comment will also be taken on any action item before the SAT takes action. Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the chair; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, or other MLPA Initiative activities should be directed to the task force or MLPA staff.

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Meeting Objectives

- *Receive update on the MLPA North Coast Regional Profile*
- *Review and potentially approve the north coast bioregions*
- *Review and discuss Marine Protected Area (MPA) habitat representation and replication guidelines*
- *Review and discuss MPA size and spacing guidelines*
- *Review and discuss Levels of Protection (LOPs) for the north coast study region*
- *Receive updates from SAT work groups*

Meeting Agenda - Wednesday, December 16, 2009

Note: Public comment will be taken on Thursday, December 17 at approximately 12:45 p.m.

Welcome, Agenda Review and Brief Introductions

I. Updates

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A. Update on the North Coast Blue Ribbon Task Force Meeting

B. Update on the North Coast Regional Profile

BRIEFING DOCUMENT B.1: Regional Profile for the MLPA North Coast Study Region PPT

C. Protocol for Handling Science Guidance Questions from the Public and External Array Proponents

BRIEFING DOCUMENT C.1: Draft MLPA I-Team memo regarding science guidance questions (December 15, 2009 DRAFT)

D. Protocol for Evaluating Incoming Data from Sources External to the Science Advisory Team

Potential SAT Action: Approve the protocol for handling science questions and external data submitted to the SAT

BRIEFING DOCUMENT D.1: Protocol for Evaluating Incoming Data from Sources External to the Master Plan Science Advisory Team (adopted February 24, 2009)

BRIEFING DOCUMENT D.2: External Data Submission Form (adopted February 24, 2009)

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

E. SAT MPA Evaluation Methods Update

F. Review and Discuss the Proposed North Coast Bioregions

Potential SAT Action: Approve the North Coast Bioregions

BRIEFING DOCUMENT F.1: Draft Methods Used to Evaluate MPA Proposals in the North Coast Study Region – Chapter 3 on Bioregions (revised December 15, 2009)

BRIEFING DOCUMENT F.2: Bioregions in the MLPA North Coast Study Region PPT

G. Discussion on Habitat Representation

Mark Carr

Potential SAT Action: Approve the proposed list of key habitats

Potential SAT Action: Approve the approach for habitat data use

BRIEFING DOCUMENT G.1: Approach to Habitat Data in the MLPA North Coast Study Region PPT - Handout Placeholder

BRIEFING DOCUMENT G.2: Draft Key and Unique Habitats for the MLPA North Coast Study Region (draft revised December 3, 2009)

H. Discussion on Habitat Replication Criteria within the North Coast Study Region

Pete Raimondi

Potential SAT Action: Approve the approach for determining habitat replication criteria

BRIEFING DOCUMENT H.1: Habitat Replication in the MLPA North Coast Study Region PPT - Handout Placeholder

Recess

Meeting Agenda - Thursday, December 17, 2009

Note: The SAT will break for lunch at approximately 12:00 p.m. and public comment will be taken immediately after at approximately 12:45 p.m.

Review agenda for Day 2 and questions from Day 1

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region (continued from day 1)

I. Discussion on Designating Levels of Protection

Mark Carr

Potential SAT Action: Approve the approach for determining levels of protection

Potential SAT Action: Approve the proposed levels of protection

BRIEFING DOCUMENT I.1: Draft List of Levels of Protection for the MLPA North Coast Study Region (draft revised December 10, 2009)

BRIEFING DOCUMENT I.2: Levels of Protection in the MLPA North Coast Study Region PPT

BRIEFING DOCUMENT I.3: Draft Supporting Text for Proposed Levels of Protection in the MLPA North Coast Study Region (draft revised December 11, 2009)

J. Discussion on Size and Spacing Evaluation Guidelines

Eric Bjorkstedt/Will White

BRIEFING DOCUMENT J.1: MPA Size and Spacing Guidelines and Evaluation Methods for the MLPA North Coast Study Region PPT

K. Review of Modeling Evaluation Methods

Eric Bjorkstedt

BRIEFING DOCUMENT K.1: Spatial Bioeconomic Model Evaluation for the North Coast PPT

L. Review and Discuss the Methods used to Estimate Potential Commercial and Recreational Fishery Impacts

Astrid Scholz

BRIEFING DOCUMENT L.1: Overview of the North Coast Fisheries Uses and Values Project PPT

III. Update from SAT Work Groups

M. Species Likely to Benefit from MPAs in the North Coast Study Region

Karina Nielsen

BRIEFING DOCUMENT M.1: Species Likely to Benefit from MPAs in the MLPA North Coast Study Region PPT

BRIEFING DOCUMENT M.2: Draft Criteria for List of Species Likely to Benefit from Marine Protected Areas in the MLPA North Coast Study Region (Draft revised December 10, 2009)

BRIEFING DOCUMENT M.3: Draft List of Species Likely to Benefit from MPAs in the MLPA North Coast Study Region (Draft revised December 14, 2009)

N. Study Region Boundary

O. Modeling Work Group- Integration of Models with MarineMap

Will White

P. Tribal Work Group Update

Wrap-Up and Next Steps

Q. NC SAT Proposed Meeting Dates for 2010

BRIEFING DOCUMENT Q.1: MLPA Master Plan Science Advisory Team Proposed Meeting Dates and Locations for 2010 (revised December 8, 2009)

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the December 16-17, 2009 Meeting
Revised January 10, 2010

Meeting Date, Time and Place

Wednesday, December 16, 2009
1:10 p.m. – 5:10 p.m.
and
Thursday, December 17, 2009
8:30 a.m. – 4:20 p.m.

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

SAT members attending: Eric Bjorkstedt, Mark Carr, Kevin Fleming, Dawn Goley, Dominic Gregorio, David Hankin, Ron LeValley, Steve Murray, Karina Nielsen, Pete Raimondi, Steven Rumrill, Astrid Scholz, Craig Strong, Steve Wertz and Will White.

SAT members absent: Larry Allen, Chris Costello, Steve Gaines, John Largier, Phillip Levin and Steven Morgan.

Meeting Objectives

- *Receive update on the MLPA north coast regional profile*
- *Review and potentially approve the north coast bioregions*
- *Review and discuss marine protected area (MPA) habitat representation and replication guidelines*
- *Review and discuss MPA size and spacing guidelines*
- *Review and discuss levels of protection (LOPs) for the north coast study region*
- *Receive updates from SAT work groups*

The meeting agenda may be found on the MLPA website at
<http://www.dfg.ca.gov/mlpa/meetings.asp>

Executive Summary

The second meeting of the MLPA Master Plan Science Advisory Team for the MLPA North Coast Study Region took place at the Red Lion Hotel in Eureka on December 16 and 17, 2009. The meeting focused on discussing the design guidelines and evaluation methods for marine protected areas (MPAs) in the north coast. SAT members approved briefing documents C.1, D.1, D.2, F.1, and I.1 (except the level of protection for sea urchin take), as well as the approaches to determining the habitat representation and replication criteria for evaluating MPA arrays.

Meeting Summary

Welcome, Introductions and Review of Agenda

On December 16 and 17, 2009, the second meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held in Eureka.

Review of Agenda

Due to scheduling conflicts for some SAT members, certain agenda items were presented out of their original order. Agenda items I (Levels of Protection), L (Ecotrust Economic Impact Assessment Methods), and M (Species Likely to Benefit from MPAs) were discussed on December 16. Agenda items G (Habitat Representation) and H (Habitat Replication) were discussed on December 17. To ensure members of the public would have ample opportunity to provide comments, the SAT vote on agenda item I was postponed until December 17, the date the vote was originally scheduled to take place.

I. Updates

A. Update on the MLPA Blue Ribbon Task Force meeting

Ken Wiseman announced that a new BRTF has been formed for the NCSR, incorporating four returning members from the south coast and four new members. The next BRTF meeting will be January 13-14 in Crescent City.

B. Update on the North Coast Regional Profile

Jason Vasques notified the SAT that the draft regional profile has been completed and published. SAT members are requested to review the profile and send comments to staff for incorporation into the next draft of the profile.

C. Protocol for handling science guidance questions from the public and external array proponents

Mike Prall presented the SAT protocol for answering science questions. The SAT voted to approve this protocol.

D. Protocol for evaluating incoming data from sources external to the Science Advisory Team

Tom Mason presented the protocol for handling external data and the form used in this protocol. The SAT voted to approve the protocol and submission document.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

E. SAT MPA evaluation methods update

Jason Vasques gave a brief introduction to the evaluation methods document; it is a record of the evaluation methods used by the SAT in each MLPA study region.

F. Review and discuss the proposed north coast bioregions

Seth Miller presented the proposed bioregions for the NCSR. The SAT approved two bioregions in the NCSR with a boundary between the two at the mouth of the Mattole River.

G. Discussion on habitat representation

This agenda item was discussed out of order (see note under “Review of Agenda” above).

Mark Carr presented the key and unique habitats in the NCSR. SAT members provided additional information about unique habitats in the region. The work group will now consider sunken rivers, dynamic beaches at river mouths, and sea stacks as unique habitats in the NCSR. SAT members are encouraged to provide information about where these habitats occur.

Emily Saarman presented the methods used to evaluate available habitat in the NCSR. She also presented the study region boundary and described how it was determined. SAT members voted to approve the approach to defining available habitat in the NCSR.

H. Discussion on habitat replication criteria within the north coast study region

This agenda item was discussed out of order (see note under “Review of Agenda” above).

Pete Raimondi presented the available data for determining the habitat replication criteria for the NCSR. Species area curves for the NCSR yielded habitat patch sizes similar to those from the MLPA North Central Coast Study Region. For sandy habitats, Pete recommended the SAT adopt a combined habitat size across all depths, as was done in the MLPA South Coast Study Region. The SAT voted to approve the approach to determining habitat replication criteria, including the combination of sandy habitats into one criterion. Steve Rumrill will help incorporate data from north coast estuaries into the habitat replication criteria.

I. Discussion on designating levels of protection

This agenda item was discussed out of order (see note under “Review of Agenda” above).

Mark Carr presented the level of protection (LOP) decision tree and the list of LOPs that have been recommended in the work group. SAT discussion focused on algal LOPs and the LOP assigned to urchins. Mark also clarified why the LOP for abalone is different in the north coast from the one assigned in the north central coast (differences in abalone maximum depth

distributions between the two regions and the increased detail of the decision tree that was unavailable in the NCC). There was initial discussion to hold the algae off the list for further review, but the existing regulations do not specify method of take for algae, so they were included in the SAT vote. The SAT voted to approve all LOPs recommended by the work group except sea urchins. The work group will revisit the sea urchin LOP and potentially consider the direction of ecosystem change when urchins are removed. External array proponents were asked to be as specific as possible when proposing a use in an MPA.

J. Discussion on size and spacing evaluation guidelines

Will White presented the current size and spacing guidelines, as well as new model outputs that might help the SAT visualize how different size and spacing guidelines might affect the percentage of dispersal/adult home range combinations that are protected in an MPA network. The SAT did not vote on these documents.

K. Review of modeling evaluation methods

Eric Bjorkstedt and Will White gave a presentation on the modeling evaluation methods and outputs. Eric discussed the history, inputs and outputs of the models, and received feedback from the SAT on what additional information would be useful for the modeling work group to incorporate. Will and Eric described new supplementary metrics that would provide additional information about where genetic breaks occur in the study region. The SAT advised the modeling work group to proceed with these supplementary metrics.

L. Review and discuss the methods used to estimate potential commercial and recreational fishery impacts

This agenda item was discussed out of order (see note under “Review of Agenda” above).

Astrid Scholz presented the Ecotrust data collection and evaluation methods. The data collection for the NCSR is completed and the data is being incorporated into MarineMap.

III. Update from SAT Work Groups

M. Species likely to benefit from MPAs in the north coast study region

This agenda item was discussed out of order (see note under “Review of Agenda” above).

Karina Nielsen presented the criteria document and draft species likely to benefit from MPAs list. SAT members discussed the criteria document, including whether or not the depressed population criterion should be part of a species’ score. The SAT also wanted to have an exhaustive list of all species that were evaluated for the list. The work group will continue to develop the list, keeping “depressed population” as a scored criterion, including all evaluated species on the list, and adding a column noting whether or not the species made the list.

N. Study region boundary

This agenda item was incorporated into Agenda Item G and presented by Emily Saarman.

O. Modeling work group integration of models with MarineMap

Jared Kibele and Will White informed the SAT that work is underway to incorporate the models into MarineMap. The end result will hopefully be that stakeholders will be able to run modeling results on any array they propose. May 1, 2010 is the proposed date of full integration of the models into MarineMap with user-friendly interfaces.

P. Tribal work group update

Steve Wertz and Ken Wiseman updated the SAT on the current status of the tribal work group. The team is still soliciting data from the tribes and would like more detailed information. The work group will meet with tribal representatives in January to discuss how to incorporate tribal uses into the MLPA process.

Next Steps

Q. NC SAT proposed meeting dates for 2010

Jason Vasques provided a summary of the meeting's proceedings and presented the next meeting dates. Future SAT meeting dates are January 20-21, 2010 (Eureka), February 11 (teleconference), March 16-17 (Eureka), May 12 (teleconference), June 29-30 (Eureka), July 28 (teleconference), October 13-14 (Eureka), and November 17 (teleconference).

Satie Airamé informed the SAT that staff would like SAT members to give science presentations at the next BRTF meeting. Steve Rumrill and Craig Strong have volunteered for the habitat presentation, John Largier will give the oceanography presentation with assistance from Ron LeValley, and Eric Bjorkstedt will give the movement, dispersal connectivity talk.

Public Comment

Both days of the meeting had public in attendance, and members of the public commented on all aspects of the MLPA process. Comments included opinions and questions about agenda items, discussion of tribal issues in the NCSR, policy questions, comments about the general MLPA process and timeline, and input on topics such as levels of protection and the quality of habitat data in the region. In addition to the public comment periods included during the meeting, a special question-and-answer session was held after the SAT recessed the evening of December 16. During this session, SAT members and staff were on hand to answer questions from external array proponents pertaining to the design of MPA arrays and the SAT evaluation process.

Briefing Documents

- B.1:** Regional Profile for the MLPA North Coast Study Region PPT
- C.1:** Draft MLPA I-Team memo regarding science guidance questions (December 15, 2009 DRAFT)
- D.1:** Protocol for Evaluating Incoming Data from Sources External to the Master Plan Science Advisory Team (adopted February 24, 2009)

- D.2:** External Data Submission Form (adopted February 24, 2009)
- F.1:** Draft Methods Used to Evaluate MPA Proposals in the North Coast Study Region – Chapter 3 on Bioregions (revised December 15, 2009)
- F.2:** Bioregions in the MLPA North Coast Study Region PPT
- G.1:** Approach to Habitat Data in the MLPA North Coast Study Region PPT - Handout Placeholder
- G.2:** Draft Key and Unique Habitats for the MLPA North Coast Study Region (draft revised December 3, 2009)
- H.1:** Habitat Replication in the MLPA North Coast Study Region PPT - Handout Placeholder
- I.1:** Draft List of Levels of Protection for the MLPA North Coast Study Region (draft revised December 10, 2009)
- I.2:** Levels of Protection in the MLPA North Coast Study Region PPT
- I.3:** Draft Supporting Text for Proposed Levels of Protection in the MLPA North Coast Study Region (draft revised December 11, 2009)
- J.1:** MPA Size and Spacing Guidelines and Evaluation Methods for the MLPA North Coast Study Region PPT
- K.1:** Spatial Bioeconomic Model Evaluation for the North Coast PPT
- L.1:** Overview of the North Coast Fisheries Uses and Values Project PPT
- M.1:** Species Likely to Benefit from MPAs in the MLPA North Coast Study Region PPT
- M.2:** Draft Criteria for List of Species Likely to Benefit from Marine Protected Areas in the MLPA North Coast Study Region (Draft revised December 10, 2009)
- M.3:** Draft List of Species Likely to Benefit from MPAs in the MLPA North Coast Study Region (Draft revised December 14, 2009)
- Q.1:** MLPA Master Plan Science Advisory Team Proposed Meeting Dates and Locations for 2010 (revised December 8, 2009)

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised January 20, 2010)

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Meeting Objectives

- *Receive updates on the MLPA North Coast Study Region planning process*
- *Receive updates from SAT work groups*
- *Review and discuss marine protected area (MPA) habitat representation methods*
- *Review, discuss and potentially approve MPA habitat replication evaluation methods*
- *Review, discuss and potentially approve MPA size and spacing evaluation methods*
- *Review, discuss and potentially approve levels of protection (LOPs)*
- *Review and discuss water quality evaluations for the north coast study region*
- *Review and discuss marine birds and mammal evaluations for the north study coast region*
- *Review and potentially approve SAT responses to science guidance question*

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Meeting Agenda - Wednesday, January 20, 2010

Note: Public comment will be taken on Thursday January 21 at approximately 12:35 p.m. At the discretion of the co-chairs, agenda items may be heard in any order and on either day of the meeting.

Welcome, Agenda Review and Brief Introductions

I. Staff Updates

- A. **Briefing on the January 13-14, 2010 meeting of the MLPA Blue Ribbon Task Force**
- B. **Update on the Progress of External Array Groups**

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

- C. **Discuss Marine Bird and Mammal Evaluation Methods**
Craig Strong and Dawn Goley
BRIEFING DOCUMENT C.1: Marine Birds and Mammals of the MLPA North Coast Study Region PPT
- D. **Water Quality Considerations for MPAs in the MLPA North Coast Study Region**
Dominic Gregorio
BRIEFING DOCUMENT D.1: Water Quality in the MLPA North Coast Study Region PPT-

III. Updates from SAT Work Groups

- E. **Modeling**
- F. **Tribal**
- G. **Species Likely to Benefit from MPAs in the North Coast Study Region**
Karina Nielson or Larry Allen
BRIEFING DOCUMENT G.1: Criteria for the Species Likely to Benefit List in the North Coast Study Region (revised December 14, 2009)
BRIEFING DOCUMENT G.2: Draft List of Species Likely to Benefit from MPAs in the North Coast Study Region (revised January 15, 2010)

Recess

Meeting Agenda - Thursday, January 21, 2010

Note: The SAT will break for lunch at approximately 11:50 a.m. and public comment will be taken immediately after at approximately 12:35 p.m. At the discretion of the co-chairs, agenda items may be heard in any order and on either day of the meeting.

Review agenda for Day 2 and questions from Day 1

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region (continued from day 1)

H. Discussion on Habitat Representation: Unique Habitats and an Update on the Methods Used to Quantify Available Habitats

Mark Carr

Potential SAT Action: *Approve unique habitats to be considered in the north coast study region*

BRIEFING DOCUMENT H.1: Key and Unique Habitats in the MLPA North Coast Study Region PPT-

BRIEFING DOCUMENT H.2: Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Section-4.0 Habitat Representation

I. Review and Discuss Habitat Replication Criteria for the North Coast Study Region

Pete Raimondi

Potential SAT Action: *Approve the habitat replication criteria for the north coast study region*

BRIEFING DOCUMENT I.1: Habitat Replication Guidelines for the North Coast Study Region PPT

J. Discussion on MPA Size and Spacing Evaluation Methods

Will White

Potential SAT Action: *Approve the approach for MPA size evaluations*

Potential SAT Action: *Approve the approach for MPA spacing evaluations*

BRIEFING DOCUMENT J.1: MPA Size and Spacing Guidelines and Evaluations for the MLPA North Coast Study Region PPT

BRIEFING DOCUMENT J.2: Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Section-6.0 and 7.0 Size and Spacing (revised January 18, 2010)

K. Review and Discuss Modeling Evaluation Methods

Eric Bjorkstedt

Potential SAT Action: *Approve the Modeling evaluation methods for the north coast study region*

BRIEFING DOCUMENT K.1: Modeling Evaluation Methods for the North Coast Study Region PPT

BRIEFING DOCUMENT K.2: Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Section 8.0- Bioeconomic Modeling (revised January 19, 2010)

L. Review and Discuss Supporting Text for Levels of Protection (LOPs) Approved at the December 16, 2009 SAT Meeting

Mark Carr or Larry Allen

Potential SAT Action: *Approve the supporting text for LOPs approved at the December 16, 2009 SAT meeting.*

Potential SAT Action: *Approve proposed LOPs*

BRIEFING DOCUMENT L.1: Draft Proposed Levels of Protection for the North Coast Study Region PPT

BRIEFING DOCUMENT L.2: Draft Supporting Text for LOPs Approved at the December 16-17, 2009 SAT Meeting

IV. Science Guidance Questions from the Public and External Array Proponents

M. Review and Discuss SAT Responses to Science Questions Received at the December 16-17, 2009 SAT Meeting

Potential SAT Action: Approve SAT response to science questions received at the December 16-17, 2009 SAT meeting

BRIEFING DOCUMENT M.1: Draft Responses to Science Questions Developed by the MLPA Master Plan Science Advisory Team and MLPA Initiative Staff

V. Wrap-up and Next Steps

N. Timeline for SAT Evaluations of Draft External Array Proposals

O. Other Documents

BRIEFING DOCUMENT O.1: Summary of the December 16-17, 2009 meeting of the North Coast Science Advisory Team- January 10, 2010

BRIEFING DOCUMENT O.2: Methods used to evaluate draft MPA proposals in the North Coast Study Region (DRAFT) Appendix C. impact assessment methods - Revised January 13, 2010

BRIEFING DOCUMENT O.3: Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Section 12.0 – Commercial and Recreational Fishery Impacts- Revised January 13, 2010

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the January 20-21, 2010 Meeting
Revised January 28, 2010

Meeting Date, Time and Place

Wednesday, January 20, 2010
1:30 p.m. – 4:30 p.m.

and

Thursday, January 21, 2010
8:30 a.m. – 2:00 p.m.

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

SAT members attending: Eric Bjorkstedt, Mark Carr, Kevin Fleming, Dawn Goley, Dominic Gregorio, David Hankin, Ron LeValley, Phillip Levin, Karina Nielsen, Pete Raimondi, Steven Rumrill, Craig Strong, Steve Wertz, and Will White.

SAT members absent: Larry Allen, Chris Costello, Steve Gaines, John Largier, Steven Morgan, Steve Murray, and Astrid Scholz.

Meeting Objectives

- *Receive updates on the MLPA North Coast Study Region planning process*
- *Receive updates from SAT work groups*
- *Review and discuss marine protected area (MPA) habitat representation methods*
- *Review, discuss and potentially approve MPA habitat replication evaluation methods*
- *Review, discuss and potentially approve MPA size and spacing evaluation methods*
- *Review, discuss and potentially approve levels of protection (LOPs)*
- *Review and discuss water quality evaluations for the north coast study region*
- *Review and discuss marine birds and mammal evaluations for the north study coast region*
- *Review and potentially approve SAT responses to science guidance question*

The meeting agenda and both audio and video recordings of this meeting are available on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Executive Summary

The third meeting of the MLPA Master Plan Science Advisory Team for the MLPA North Coast Study Region took place at the Red Lion Hotel in Eureka on January 20 and 21, 2010. Due to

inclement weather preventing some in-person participation, action on items was postponed to the February 11, 2010 meeting to allow more time for public comment and SAT discussion.

Meeting Summary

Welcome, Introductions and Review of Agenda

On January 20 and 21, 2010, the third meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held in Eureka.

Review of Agenda

Due to inclement weather preventing some in-person participation, action on items was postponed to the February 11, 2010 meeting to allow more time for public comment and SAT discussion. Agenda Item E (Modeling work group update) was incorporated into Agenda Item K (Modeling evaluation methods).

I. Updates

A. Briefing on the January 13-14, 2010 meeting of the MLPA Blue Ribbon Task Force

Ken Wiseman gave an update on the MLPA Blue Ribbon Task Force (BRTF) meeting. The meeting went very well and the BRTF made good progress with its work.

B. Update on the progress of external array groups

Dominique Monie gave an update on the external array groups. Eighteen groups indicated their intent to submit an array, but many of the groups likely will join together and staff predicts up to six arrays will be submitted. The public workshops last week were well attended and staff members were able to answer many questions for the external array group members. Science questions that could not be addressed by staff during the public workshops will be brought to the SAT for its consideration.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

C. Discuss marine bird and mammal evaluation methods

Craig Strong and Dawn Goley presented the background information for the marine bird and mammal evaluation methods. Craig gave an overview of birds and mammals that occur in the NCSR. Dawn presented the proposed evaluation methods for the region and described how birds and mammals might benefit from MPAs. The evaluation methods are largely similar to those used in the south coast study region, although proposals will be evaluated in their entirety rather than by bioregion.

D. Water quality considerations for MPAs in the MLPA North Coast Study Region

Dominic Gregorio presented an overview of the water quality of the NCSR and detailed the evaluation methods that will be used. The evaluation methods for water quality are largely similar to the water quality evaluation methods from the south coast study region, except bays/estuaries will be evaluated using an area measurement, there is no need to focus on power plant entrainment, and the evaluation will consider harbors to be non-point pollution sources. Evaluation scores will be based on presence/absence of water quality concerns and opportunities; co-location with areas of water quality concern will cause a score to decrease, while co-location with areas of special biological significance (ASBS) will improve score, and final scores will range from zero to one. SAT members wanted to ensure the external array proponents understand this evaluation is a secondary evaluation.

III. Update from SAT Work Groups

E. Modeling work group

The modeling update was incorporated into the modeling evaluation methods agenda item.

F. Tribal work group

Becky Ota presented an update on the tribal work group. The group is developing a protocol to guide tribal input to the SAT to ensure the SAT receives information in a format that may be used for MPA planning and/or evaluation consistent with other types of information considered in the MLPA Initiative. This information includes species taken, method of take, location of take, magnitude of take, and when take occurs. The SAT acknowledges that the question of whether or not aboriginal take can be considered part of the natural ecosystem is very interesting, but answering that question is beyond the scope of the SAT and conclusions could not be made without an extensive anthropological study.

G. Species likely to benefit from MPAs in the North Coast Study Region

Seth Miller gave an update on the species likely to benefit list. The criteria document is largely unchanged from the version presented at the December SAT meeting, and the draft list has been updated to reflect comments from that meeting. Seth asked the SAT to fill in the blanks in the list and add species that should be considered. The SAT potentially will take action on these documents during its February 11 meeting.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region (continued from day 1)

H. Discussion on habitat representation: unique habitats and an update on the methods used to quantify available habitats

Emily Saarman presented information about the key and unique habitats in the NCSR. Data collection is complete for the location of major habitats in the region, and staff is working hard to process those data and incorporate the information into MarineMap. Since eelgrass is poorly

mapped outside of Humboldt Bay, the SAT agreed the evaluations should include a count of other estuaries included in MPA array proposals that are known habitats for eelgrass. Emily also presented the information concerning unique habitats in the NCSR. Mendocino sunken rivers and dynamic river mouths in the region have been identified. Sea stacks had been noted as a potential unique habitat at the December SAT meeting, but sea stacks are not particularly unique to or rare within the NCSR. The SAT informally agreed that evaluations for rocky shores should include two measures: the onshore rocky habitat and the offshore rocky habitat (which would include the rocky habitat provided by sea stacks and offshore rocks).

I. Review and discuss habitat replication criteria for the North Coast Study Region

Pete Raimondi presented the background information on how the habitat replication thresholds are determined. SAT members pointed out that the 90% threshold on the species/area curves is not an arbitrary number, but rather the point at which the marginal value of adding area to a reserve decreases dramatically. SAT members also pointed out that the minimum size replicate for the combined soft bottom categories was slightly larger than the minimum size of an MPA recommended in the size guidelines. The SAT will consider this difference and provide any feedback for review during the next SAT meeting.

J. Discussion on MPA size and spacing evaluation methods

Will White presented the MPA size and spacing evaluation methods. The presentation provided a background on the development of the size and spacing guidelines and introduced new visual representations of the consequences of different size and spacing combinations of MPAs. This new figure showing the interaction between size and spacing provides another resource for external array proponents and regional stakeholder group members to use during their development of MPA proposals.

K. Review and discuss modeling evaluation methods

Eric Bjorkstedt presented the background of the model and how the model works. Will White then presented the modeling evaluation methods, including the new genetic connectivity analysis. The results of the modeling evaluation will provide additional information during the evaluation process.

L. Review and discuss supporting text for levels of protection (LOPs) approved at the December 16, 2009 SAT meeting

Karina Nielsen presented the new proposed LOPs. She led the SAT through the revised LOP decision tree for coastal pelagic finfish by dipnet or hand nets (high), salmon by non-troll hook and line in waters less than 50 meters (moderate), and sea urchin by hand (moderate-low). She also presented the draft supporting text for LOPs and asked SAT members to review the text and provide comments for incorporation by the February SAT meeting.

IV. Science guidance questions from the public and external array proponents

M. Review and discuss SAT responses to science questions received at the December 16, 2009 SAT meeting

Steve Wertz presented the draft responses to science questions. SAT members were asked to review the questions and provide comments before the next meeting.

Next Steps

N. Timeline for SAT evaluations of draft external array proposals

Mike Prall presented the timeline for SAT evaluations: receipt of proposals on February 1, proposal cleanup by staff until February 15, and draft SAT evaluations are due by the March 16-17 SAT meeting. SAT presentations of the evaluation results then will be given by SAT members at the following MLPA North Coast Regional Stakeholder Group and BRTF meetings.

Public Comment

Members of the public commented on a wide variety of issues. Many comments focused on proposed and approved levels of protection, with representatives from different user groups presenting information on how the SAT should consider the potential impacts of their activities. Other public comments included thoughts on the MLPA process timeline, information about tribal uses of area resources, and comments about the regional profile.

Briefing Documents

- C.1: Marine birds and mammals of the MLPA NCSR PowerPoint
- D.1: Water quality in the MLPA NCSR PowerPoint
- E.1: Methods used to evaluate draft MPA proposals in the NCSR (Draft) Appendix C
- E.2: Methods used to evaluate draft MPA proposals in the NCSR (Draft) Section 12.0 – Commercial and recreational fishery impacts
- G.1: Criteria for the Species Likely to Benefit List in the North Coast Study Region (revised December 14, 2009)
- G.2: Draft List of Species Likely to Benefit from MPAs in the North Coast Study Region (revised January 15, 2010)
- H.1: Key and unique habitats in the MLPA North Coast Study Region PowerPoint
- H.2: Methods used to evaluate draft MPA proposals in the NCSR (Draft) Section 4.0 – Habitat representation
- I.1: Habitat replication guidelines for the North Coast Study Region PowerPoint
- J.1: MPA size and spacing guidelines and evaluations for the MLPA North Coast Study Region PowerPoint
- J.2: Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Section-6.0 and 7.0 Size and Spacing (revised January 18, 2010)

- K.1: Modeling evaluation methods for the North Coast Study Region PowerPoint
- K.2: Methods used to evaluate draft MPA proposals in the North Coast Study Region (Draft) Section 8.0 – Bioeconomic modeling (revised January 19, 2010)
- L.1: Draft proposed levels of protection for the North Coast Study Region PowerPoint
- L.2: Draft supporting text for LOPs approved at the December 16-17, 2009 SAT meeting
- M.1: Draft responses to science questions developed by the SAT and MLPA Initiative staff
- N.1: Summary of the December 16-17, 2009 meeting of the North Coast Science Advisory Team (January 10, 2010)
- O.2: Methods used to evaluate draft MPA proposals in the North Coast Study Region (DRAFT) Appendix C. impact assessment methods - Revised January 13, 2010
- O.3: Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Section 12.0 – Commercial and Recreational Fishery Impacts- Revised January 13, 2010

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised February 10, 2010)

Thursday, February 11, 2010 at 9:30 AM

via teleconference* and online meeting

Toll-free conference call
Dial-in number: 1 (877) 615-4339
Passcode: 8858 231#

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<https://www1.gotomeeting.com/register/247844376>

For public onsite teleconference and webinar access with MLPA staff:

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA

Resources Building *
1416 Ninth Street, Room 1320
Sacramento, CA 95814

Humboldt Bay Aquatic Center*
921 Waterfront Drive, Room 211
Eureka, CA

California Department of Fish and Game *
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Hampton Inn & Suites*
Redwood Room, Third Floor
100 A Street
Crescent City, CA

UCSB Marine Science Institute
Marine Science Research Building*
Room 3322
Santa Barbara, CA 93106-6150

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_nc.asp for more information.

Public parking is available at no charge at the above locations except for the Marine Science Research Building and the Resources Building.

- (1) The Marine Science Research Building is most easily accessed via bus from downtown Santa Barbara or Goleta by taking the UCSB express; directions and bus stop times are available at http://www.sbmtd.gov/Lines/Line_24x.htm Alternatively, UCSB campus visitor parking passes can be requested by contacting Satie Airame at airame@msi.ucsb.edu
- (2) The Resources Building is most easily accessed via the Light Rail Blue and Gold lines (<http://www.sacrt.com/systemmap/central.stm>). Parking in downtown Sacramento is via a city garage or metered street parking; members of the public can be reimbursed by staff at the building for any parking fees.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 12:20 p.m.** Time allotted for public comment is determined by the number of requests and can range from one to three minutes per comment; submitting written comments that can be easily summarized in one to two

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minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, MLPA Regional Stakeholder Group, or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- Receive MLPA Initiative process updates
- Review and potentially adopt marine protected area (MPA) evaluation methods for the MLPA North Coast Study Region
- Review and potentially adopt draft responses to science questions from the public and external array proponents

Meeting Agenda – Thursday, February 11, 2010

Note: The SAT will break for lunch at approximately 11:35 a.m. and public comment will be taken immediately after at approximately 12:20 p.m. At the discretion of the co-chairs, agenda items may be heard in any order on the day of the meeting.

Welcome, Introductions and Review of Agenda

I. Updates

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

A. Review and Potentially Approve SAT Evaluation Methods for Habitat Representation

Potential SAT Action: *Approve the list of key and unique habitats to be evaluated and the evaluation methods for habitat representation, including the supporting document*

BRIEFING DOCUMENT A.1: PowerPoint Presentation: Habitat Representation Evaluation Methods for the North Coast Study Region

BRIEFING DOCUMENT A.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 4 – Habitat Representation Analyses (Goals 1 and 4) (revised February 8, 2010)

B. Review and Potentially Approve SAT Evaluation Methods for Habitat Replication

Potential SAT Action: *Approve the evaluation methods for habitat replication*

BRIEFING DOCUMENT B.1: PowerPoint Presentation: Habitat Replication Evaluation Methods for the North Coast Study Region

C. Review and Potentially Approve Evaluation Methods for Bioeconomic Modeling

Potential SAT Action: *Approve the bioeconomic modeling evaluation methods and supporting document*

BRIEFING DOCUMENT C.1: PowerPoint Presentation: Spatial Bioeconomic Model Evaluation Method for the North Coast Study Region

BRIEFING DOCUMENT C.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 8 and Appendix B – Bioeconomic Modeling (revised February 4, 2010)

D. Review and Potentially Approve the SAT Evaluation Methods for Benefits to Marine Birds and Mammals

Potential SAT Action: Approve the marine birds and mammal evaluation methods

BRIEFING DOCUMENT D.1: PowerPoint Presentation: Marine Birds and Mammal Evaluation Methods

E. Review and Potentially Approve SAT Evaluation Methods for MPA Size

Potential SAT Action: Approve the MPA size evaluation methods and supporting document

BRIEFING DOCUMENT E.1: PowerPoint Presentation: MPA Size Evaluation Methods for the North Coast Study Region

BRIEFING DOCUMENT E.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 6 – MPA Size (revised February 4, 2010)

F. Review and Potentially Approve SAT Evaluation Methods for MPA Spacing

Potential SAT Action: Approve the MPA spacing evaluation methods and supporting document

BRIEFING DOCUMENT F.1: PowerPoint Presentation: MPA Spacing Evaluation Methods for the MLPA North Coast Study Region

BRIEFING DOCUMENT F.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 7 – MPA Spacing (revised February 4, 2010)

G. Review and Potentially Approve Levels of Protection and Supporting Text

Potential SAT Action: Approve the supporting text for levels of protection (LOPs) adopted at the December 16, 2009 SAT meeting.

Potential SAT Action: Approve any revised LOPs and LOP methods

BRIEFING DOCUMENT G.1: New and or Revised LOPs – Handout Placeholder

BRIEFING DOCUMENT G.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT) Chapter 3 and Appendix A – Protection Levels (Goals 1, 2, 4 and 6) (revised February 10, 2010)

H. Review and Potentially Approve the SAT Evaluation Methods Used to Estimate Potential Commercial and Recreational Fishery Impacts

Potential SAT Action: Approve the methods used to estimate potential commercial and recreational fishery impacts and supporting documents

BRIEFING DOCUMENT H.1: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT) Chapter 12 – Commercial and Recreational Fishery Impacts (revised January 29, 2010)

BRIEFING DOCUMENT H.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Appendix C – Evaluation of Potential Impacts to Commercial and Recreational Fisheries (revised January 13, 2010)

BRIEFING DOCUMENT H.3: PowerPoint Presentation: Potential Impacts to Commercial and Recreational Fishing Evaluation Methods

I. Review and Potentially Approve the SAT Evaluation Methods for Water Quality

Potential SAT Action: Approve the water quality evaluation methods

BRIEFING DOCUMENT I.1: PowerPoint Presentation: Water Quality Evaluation Methods in the MLPA North Coast Study Region

BRIEFING DOCUMENT I.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 10 – Water and Sediment Quality (February 8, 2010)

III. Science Guidance Questions from the Public and External Array Proponents

J. Review and Discuss SAT Responses to Science Questions Received at the December 16-17, 2009 SAT Meeting

Potential SAT Action: Approve SAT response to science questions received at the December 16-17, 2009 SAT meeting

BRIEFING DOCUMENT J.1: Draft Responses to Science Questions Posed at the December 16-17, 2009 Meeting of the MLPA Master Plan Science Advisory Team (revised January 20, 2010)

K. New Science Questions to be Addressed

Wrap-up and Next Steps

L. Other Items

BRIEFING DOCUMENT L.1: Members of the North Coast Regional Stakeholder Group (revised February 8, 2010)

BRIEFING DOCUMENT L.2: Calendar of Upcoming Dates for the North Coast Study Region (revised February 9, 2010)

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the February 11, 2010 Meeting
Revised February 17, 2010

Meeting Date, Time and Place

Thursday, February 11, 2010
9:30 a.m.

Via teleconference and webinar

Public onsite access with MLPA staff was provided at the following locations:

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA

Resources Building *
1416 Ninth Street, Room 1320
Sacramento, CA 95814

Humboldt Bay Aquatic Center*
921 Waterfront Drive, Room 211
Eureka, CA

California Department of Fish and Game *
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Hampton Inn & Suites*
Redwood Room, Third Floor
100 A Street
Crescent City, CA

UCSB Marine Science Institute
Marine Science Research Building*
Room 3322
Santa Barbara, CA 93106-6150

SAT members attending: Larry Allen, Eric Bjorkstedt, Mark Carr, Chris Costello, Kevin Fleming, Steve Gaines, Dawn Goley, Dominic Gregorio, David Hankin, Ron LeValley, Phillip Levin, Steven Morgan, Steve Murray, Karina Nielsen, Pete Raimondi, Steven Rumrill, Astrid Scholz, Craig Strong, Steve Wertz, and Will White.

SAT members absent: John Largier.

Meeting Objectives

- *Receive MLPA Initiative process updates*
- *Review and potentially adopt marine protected area (MPA) evaluation methods for the MLPA North Coast Study Region*
- *Review and potentially adopt draft responses to science questions from the public and external array proponents*

Both audio and video recordings of this meeting are available on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp.

Executive Summary

On February 11, 2010, the fourth meeting of the Marine Life Protection Act (MLPA) Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held via teleconference and webinar. Members of the public were invited to join MLPA staff at various locations throughout the study region and California to hear and view the meeting. During the meeting, SAT members approved a number of briefing documents and evaluation methods. Initially decisions to approve many of these documents and evaluation methods were scheduled for the January 20-21 SAT meeting, and were discussed at length at that time; due to inclement weather preventing some in-person participation, action on the items was held over to the February 11 meeting to allow more time for public comment and SAT discussion.

Members approved all SAT evaluation methods presented during the meeting, including those for habitat representation, habitat replication, bioeconomic modeling, benefits to marine birds and mammals, marine protected area (MPA) size, MPA spacing, potential commercial and recreational fishery impacts, and water and sediment quality. SAT members also approved the inclusion of information about three specific habitat types (offshore rocks and sea stacks, dynamic river mouths, and drowned river canyons) under existing key habitats (see Agenda Item A); voted to recommend the inclusion of at least one replicate of each habitat type in each bioregion (see Agenda Item B); approved the continued development of the supplemental connectivity metric by the modeling work group (see Agenda Item C); and approved the methods used for assigning levels of protection and six newly proposed levels of protection (see Agenda Item G).

The SAT approved Briefing Documents A.2, C.2, E.2, F.2, G.2, H.1, H.2, and J.1.

Meeting Summary

Welcome, Introductions and Review of Agenda

On February 11, 2010, the fourth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held via teleconference and webinar. Members of the public were invited to join MLPA staff members at locations throughout the study region and California to hear and view the meeting.

I. Updates

Ken Wiseman gave an update on the MLPA North Coast Regional Stakeholder Group (NCRSG). The NCRSG had an excellent start this week at its first meeting in Eureka on February 8-9, 2010.

Evan Fox gave an update on marine protected area (MPA) arrays that were submitted by external array proponents on February 1. Eight arrays were submitted, and include from ten to sixteen MPAs each. Staff is currently preparing the arrays for the SAT and public viewing, and the arrays should be available the week of February 15. SAT members and staff then will

conduct evaluations and present the evaluation results at the March 16-17 SAT meeting in Eureka.

Satie Airamé gave an update on the SAT tribal work group. The work group met with tribal representatives on January 20 in Eureka and had a follow-up conference call to address additional topics. The work group anticipates one additional conference call before the March 16-17 SAT meeting and will provide another update during that meeting.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

A. Review and potentially approve SAT evaluation methods for habitat representation

Mark Carr presented information on key and unique habitats and evaluation methods for habitat representation. The work group recommended that the proposed unique habitats in the NCSR (offshore rocks and sea stacks, dynamic river mouths, and drowned river canyons) should be mentioned as interesting sub-types of existing key habitats, rather than identifying them as unique habitats. To create the habitat representation evaluation, SAT members consider the availability of habitats; calculate the percent of each habitat in MPAs at each level of protection; and finally note where representation of a habitat is not possible in a given bioregion due to the scarcity of that habitat. The SAT voted to approve the evaluation methods for habitat representation, the supporting document (Briefing Document A.2) describing the evaluation methods, and the inclusion of those newly identified habitats as part of the key habitats.

B. Review and potentially approve SAT evaluation methods for habitat replication

Pete Raimondi presented the SAT evaluation methods for habitat replication. The habitat replication work group determined the amount of habitat necessary to count as a replicate for all habitats except estuaries. The work group created species/area curves for each habitat type and determined the amount of habitat necessary to capture 90% of the available species. The SAT voted to approve the recommendation to have at least one replicate of each key habitat in each bioregion, and the habitat replication evaluation methods.

C. Review and potentially approve evaluation methods for bioeconomic modeling

Chris Costello and Will White presented the evaluation methods for bioeconomic modeling and the supplemental connectivity metric. The modeling effort calculates what populations of model species will look like in the future given a range of different assumptions about future fishery management. The species to be used in the NCSR will include black rockfish, brown rockfish, cabezon, redbelt surfperch, Dungeness crab, red abalone, and red sea urchin; these species will be added to the model as information becomes available. The modeling work group also has continued to develop a supplemental connectivity metric, which provides information about the genetic connectivity among MPAs. The SAT voted to approve the bioeconomic modeling evaluation methods and the supporting text for those methods (Briefing Document C.2), and agreed that the work group should continue developing the supplemental connectivity metric.

D. Review and potentially approve the SAT evaluation methods for benefits to marine birds and mammals

Craig Strong presented the evaluation methods for benefits to marine birds and mammals. The birds and mammals work group will evaluate how well each proposed MPA array captures five types of areas that may provide direct and indirect benefits to marine birds and mammals: breeding sites, roost/haulout sites, nearshore foraging areas, neritic foraging “hot spots,” and estuarine and coastal habitat (particularly Humboldt Bay). The SAT voted to approve the evaluation methods, though the SAT will review and look to approve the supporting document at a future meeting.

E. Review and potentially approve SAT evaluation methods for MPA size

Steve Gaines presented the SAT evaluation methods for MPA size. The evaluation methods include measuring individual MPA areas, considering the levels of protection, combining into clusters any contiguous MPAs that have levels of protection at least moderate-high or above, and then tabulating MPA cluster areas relative to minimum and preferred size guidelines. SAT members approved the evaluation methods and the supporting document (Briefing Document E.2).

F. Review and potentially approve SAT evaluation methods for MPA spacing

Steve Gaines presented the SAT evaluation methods for MPA spacing. The spacing evaluation team will measure the gaps between adjacent MPA clusters that include each type of habitat at levels of protection that are moderate-high or above. The SAT voted to approve the evaluation methods and the supporting document (Briefing Document F.2).

G. Review and potentially approve levels of protection and supporting text

Mark Carr presented newly proposed levels of protection (LOPs) and the supporting text for both those and previously approved LOPs. New LOPs include coastal pelagic finfish by round-haul net and dip net (high); surf and night smelts by dip net, a-frame net, and cast net (moderate-high); salmon by hook and line in waters <50m (moderate); any surfperch from shore by hook and line (moderate); sea urchin by hand (moderate-low); and surfperch by hook and line if not specifying shorefishing only (moderate-low). SAT members had a robust discussion on the new proposed LOPs, particularly surfperch from shore. SAT members voted to approve the LOP decision tree and the assumptions under which the LOP decisions are made, as well as the newly proposed levels of protection and the supporting document (Briefing Document G.2).

H. Review and potentially approve the SAT evaluation methods used to estimate potential commercial and recreational fishery impacts

Astrid Scholz presented the SAT evaluation methods for potential commercial and recreational fishery impacts. These methods had been presented at several previous meetings, so there

was little discussion by SAT members. The SAT voted to approve the evaluation methods and the supporting text (Briefing Documents H.1 and H.2).

I. Review and potentially approve the SAT evaluation methods for water quality

Dominic Gregorio presented the SAT water quality evaluation methods. The evaluation is a scoring system that divides MPAs into two groups (coastal MPAs and MPAs in estuaries/embayments) and assigns a score to each MPA based on its co-location with areas of water quality concern or areas of water quality opportunity. These methods are unchanged from those presented at the January 20-21, 2010 SAT meeting. The work group highlighted that this evaluation should be considered secondary to the other evaluations. The SAT voted to approve the evaluation methods but will review and look to approve the supporting guidance document at its next meeting.

III. Science Guidance Questions from the Public and External Array Proponents

J. Review and discuss SAT responses to science questions received at the December 16-17, 2009 SAT meeting

Satie Airamé presented the draft responses to the science questions received at the December 16-17, 2009 SAT meeting. SAT members discussed adding information to the answer to Question 6, which addresses the issue of how a few large MPAs might be considered by the SAT. SAT members voted to approve the responses to science questions (Briefing Document J.1), with the caveat that a new work group will be formed (consisting of the modeling work group with the addition of Phil Levin and Chris Costello) to present more information about how a few large MPAs might be considered by the SAT.

K. New science questions to be addressed

Satie Airamé notified the SAT that more questions had been submitted to the SAT and staff and co-chairs will distribute those questions to the appropriate work groups and staff members. The answers should be available for review at the next SAT meeting.

Wrap-up and Next Steps

L. Other items

Mike Prall reviewed the timeline for the proposal evaluations and noted that Satie Airamé will be contacting SAT members and staff leads for each evaluation. SAT members were given a list of upcoming MLPA meetings; the SAT's next meeting will be March 16-17 in Eureka.

Public Comments

Members of the public provided extensive comments during the meeting both over the phone and through participation at the staffed locations. Comments focused on the various evaluation methods that were presented, but members of the public also commented on the availability of data on source and sink populations in the NCSR, the importance of marine resources to the

coastal communities in the NCSR, and how the NCSR is unique in California due to its relatively low fishing effort and remoteness.

Briefing Documents

- A.1: PowerPoint Presentation: Habitat Representation Evaluation Methods for the North Coast Study Region
- A.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 4 – Habitat Representation Analyses (Goals 1 and 4) (revised February 8, 2010)
- B.1: PowerPoint Presentation: Habitat Replication Evaluation Methods for the North Coast Study Region
- C.1: PowerPoint Presentation: Spatial Bioeconomic Model Evaluation Method for the North Coast Study Region
- C.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 8 and Appendix B – Bioeconomic Modeling (revised February 4, 2010)
- D.1: PowerPoint Presentation: Marine Birds and Mammal Evaluation Methods
- E.1: PowerPoint Presentation: MPA Size Evaluation Methods for the North Coast Study Region
- E.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 6 – MPA Size (revised February 4, 2010)
- F.1: PowerPoint Presentation: MPA Spacing Evaluation Methods for the MLPA North Coast Study Region
- F.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 7 – MPA Spacing (revised February 4, 2010)
- G.1: New and or Revised LOPs – Handout Placeholder
- G.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT) Chapter 3 and Appendix A – Protection Levels (Goals 1, 2, 4 and 6) (revised February 10, 2010)
- H.1: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT) Chapter 12 – Commercial and Recreational Fishery Impacts (revised January 29, 2010)
- H.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Appendix C – Evaluation of Potential Impacts to Commercial and Recreational Fisheries (revised January 13, 2010)
- H.3: PowerPoint Presentation: Potential Impacts to Commercial and Recreational Fishing Evaluation Methods
- I.1: PowerPoint Presentation: Water Quality Evaluation Methods in the MLPA North Coast Study Region
- I.2: Methods Used to Evaluate MPA Proposals in the North Coast Study Region (DRAFT): Chapter 10 – Water and Sediment Quality (February 8, 2010)
- J.1: Draft Responses to Science Questions Posed at the December 16-17, 2009 Meeting of the MLPA Master Plan Science Advisory Team (revised January 20, 2010)
- L.1: Members of the North Coast Regional Stakeholder Group (revised February 8, 2010)
- L.2: Calendar of Upcoming Dates for the North Coast Study Region (revised February 9, 2010)

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised March 12, 2010)

Tuesday, March 16, 2010 at 1:00 PM
Wednesday March 17, 2010 at 8:30 AM

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_n.asp for more information. In addition, the following locations will be open to the public to view and participate in the meeting remotely.

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA 95437

Crescent Fire Protection District*
255 W. Washington Street
Crescent City, CA 95531

Note that the Crescent City location has changed.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) on **Wednesday, March 17 at approximately 12:25 p.m.** Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the chair; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, or other MLPA Initiative activities should be directed to the task force or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive updates on the MLPA North Coast Study Region marine protected area (MPA) planning process*
- *Review and potentially adopt the SAT evaluations of the north coast existing MPAs and external MPA arrays*
- *Review and potentially adopt the list of species likely to benefit from MPAs for the MLPA North Coast Study Region*
- *Review and discuss water quality guidance for the north coast study region*
- *Review and potentially approve SAT responses to science questions*

** This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TTY) or 800.735.2922 (voice), or contact the California Marine Life Protection Act Initiative at 916.654.1885.*

Meeting Agenda – Tuesday, March 16, 2010

Note: General public comment will be taken on Thursday March 17 at approximately 12:25 p.m. At the discretion of the co-chairs, agenda items may be heard in any order and on either day of the meeting.

Welcome, Agenda Review and Brief Introductions

I. MLPA Initiative North Coast Process Updates

A. North Coast Planning Progress

B. MLPA Tribal Policy Work Group

BRIEFING DOCUMENT B.1: I-Team memo regarding legal guidance from the California Department of Fish and Game and California Fish and Game Commission Staff (February 19, 2010)

C. SAT Tribal Work Group

D. SAT Responses to Science Questions

E. North Coast Habitat Data

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

F. Review and Discuss SAT Evaluation Methods for the MLPA North Coast Study Region

Potential SAT Action: *Approve the SAT draft evaluation methods document for the north coast*

BRIEFING DOCUMENT F.1: *Draft Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region (March 4, 2010)*

III. SAT Evaluations of Existing MPAs and North Coast External MPA Arrays

G. Overview of Existing MPAs and External MPA Arrays

BRIEFING DOCUMENT G.1: Overview Maps of Existing MPAs and External MPA Arrays for the MLPA North Coast Study Region

BRIEFING DOCUMENT G.2: PowerPoint Presentation: Overview of the MLPA North Coast Study Region External MPA Arrays - Handout Placeholder

H. Review and Discuss the Habitat Representation and Habitat Replication Evaluation Results

Potential SAT Action: *Approve the habitat representation and habitat replication evaluation results and presentation*

BRIEFING DOCUMENT H.1: PowerPoint Presentation: Draft Habitat Evaluations of the North Coast Study Region External MPA Array Proposals – Handout Placeholder

I. Review and Discuss the MPA Size and MPA Spacing Evaluation Results

Potential SAT Action: *Approve the MPA size and MPA spacing evaluation results and presentation*

BRIEFING DOCUMENT I.1: PowerPoint Presentation: Draft Size and Spacing Evaluations of the North Coast Study Region External MPA Array Proposals – Handout Placeholder

Recess

Meeting Agenda – Wednesday, March 17, 2010

The SAT will break for lunch at approximately 11:40 a.m. and general public comment will be taken immediately after at approximately 12:25 p.m. At the discretion of the co-chairs, agenda items may be heard in any order on either day of the meeting.

Review agenda for Day 2 and questions from Day 1

III. SAT Evaluations of Existing MPAs and North Coast External MPA Array (continued from Day 1)

J. Review and Discuss the Bioeconomic Model Evaluation Results

Potential SAT Action: Approve the bioeconomic model evaluation results and presentation

BRIEFING DOCUMENT J.1: PowerPoint Presentation: Draft Bioeconomic Evaluations of the North Coast Study Region External MPA Array Proposals – Handout Placeholder

K. Review and Discuss the Potential Commercial and Recreational Fishery Impacts Evaluation Results

Potential SAT Action: Approve the potential commercial and recreational fishing impacts evaluation results and presentation

BRIEFING DOCUMENT K.1: PowerPoint Presentation: Draft Potential Commercial and Recreational Fishing Impacts Evaluations of the North Coast Study Region External MPA Array Proposals – Handout Placeholder

L. Review and Discuss the Water Quality Evaluation Results

Potential SAT Action: Approve the water quality evaluation results and presentation

BRIEFING DOCUMENT L.1: PowerPoint Presentation: Water and Sediment Quality Evaluations of the North Coast External MPA Array Proposals – Handout Placeholder

M. Review and Discuss the Marine Birds and Marine Mammals Evaluation Results

Potential SAT Action: Approve the marine birds and mammals evaluation results and presentation

BRIEFING DOCUMENT M.1: PowerPoint Presentation: Draft Marine Birds and Mammals Evaluations for the North Coast Study Region External MPA Array Proposals – Handout Placeholder

IV. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region (Continued from Day 1)

N. Discuss Progress made by the SAT Tribal Work Group

Potential SAT Action: Approve the draft guidelines for sharing information about tribal uses

BRIEFING DOCUMENT N.1: Draft Guidelines for Sharing Information about Tribal Uses – Handout Placeholder

O. Review and Discuss the Species Likely to Benefit from MPAs in the North Coast Study Region

Potential SAT Action: Approve the listing criteria document and list of species likely to benefit from MPAs in the north coast study region

BRIEFING DOCUMENT O.1: Draft Criteria for Creating the List of Species Likely to Benefit from Marine Protected Areas in the MLPA North Coast Study Region (revised December 14, 2009)

BRIEFING DOCUMENT O.2: Draft List of Species Likely to Benefit from MPAs in the North Coast Study Region – Handout Placeholder

P. Review and Discuss Water Quality Considerations in the MLPA North Coast Study Region

BRIEFING DOCUMENT P.1: Draft Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA North Coast Study Region (revised March 9, 2010)

BRIEFING DOCUMENT P.2: Water Quality Concerns and Opportunities: Draft Maps for the North Coast Study Region (revised March 4, 2010)

IV. Science Guidance Questions from the Public and External Array Proponents

Q. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT responses to science questions from the public

BRIEFING DOCUMENT Q.1: Draft SAT Response to Science Question Received from the Public – Handout Placeholder

Wrap-up and Next steps

R. Other Items

BRIEFING DOCUMENT R.1: Summary of the February 11, 21010 Meeting of the Master Plan Science Advisory Team (February 17, 2010)

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the March 16-17, 2010 Meeting of the
MLPA Master Plan Science Advisory Team
Revised April 5, 2010

Meeting Date, Time and Place

Tuesday, March 16, 2010

1:50 p.m. – 5:20 p.m.

and

Wednesday, March 17, 2010

8:30 a.m. – 2:00 p.m.

Red Lion Hotel Eureka

1929 Fourth Street

Eureka, CA 95501

SAT members attending: Larry Allen, Eric Bjorkstedt, Mark Carr, Steve Gaines, Dawn Goley, Dominic Gregorio, John Largier, Phillip Levin, Karina Nielsen, Pete Raimondi, Steven Rumrill, Astrid Scholz, Craig Strong, and Steve Wertz.

SAT members absent: Chris Costello, Kevin Fleming, David Hankin, Ron LeValley, Steven Morgan, Steve Murray, and Will White.

Meeting Objectives

- Receive updates on the MLPA North Coast Study Region marine protected area (MPA) planning process
- Review and potentially adopt the MLPA Master Plan Science Advisory Team (SAT) evaluations of the north coast existing MPAs and external MPA arrays
- Review and potentially adopt the list of species likely to benefit from MPAs for the MLPA North Coast Study Region
- Review and discuss water quality guidance for the north coast study region
- Review and potentially approve SAT responses to science questions

The meeting agenda may be found on the MLPA website at
<http://www.dfg.ca.gov/mlpa/meetings.asp>

Executive Summary

The fifth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region took place at the Red Lion Hotel in Eureka on March 16 and 17, 2010. SAT members voted to approve all evaluation results of Round 1 north coast external proposed MPA arrays, including those for habitat representation, habitat replication, MPA size, MPA spacing, bioeconomic modeling, potential commercial and recreational fishery impacts, water quality, and marine birds and marine mammals. The SAT also voted to approve the evaluation methods document chapters for habitat replication, water quality, and marine birds

and marine mammals. Finally, the SAT approved the species likely to benefit list (SLTB), the SLTB criteria document, and the draft responses to science questions. Round 1 evaluation results and draft responses to science questions will be presented to the MLPA North Coast Regional Stakeholder Group during its upcoming March 24-25 meeting in Crescent City.

Meeting Summary

Welcome, Introductions and Review of Agenda

On March 16 and 17, 2010, the fifth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held in Eureka.

I. Updates

A. North coast planning progress

Ken Wiseman gave an update on the north coast planning process. The process is moving forward very well, and there was recently a productive MLPA Blue Ribbon Task Force (BRTF) meeting in Fort Bragg. The second MLPA North Coast Regional Stakeholder Group meeting is planned for March 24-25.

B. MLPA tribal policy work group

Becky Ota presented Briefing Document B.1, a memo sent by MLPA Initiative staff to the MLPA North Coast Regional Stakeholder Group (NCRSG) and the BRTF. The document conveys that there are few existing state laws that give DFG authority regarding tribal harvest, so it is difficult for the state to provide legal guidance on this issue. Tribal take currently is not consistent with the designation of a state marine reserve. The BRTF will discuss this topic further via teleconference on March 18.

C. SAT tribal work group

Satie Airamé gave an update on the SAT Tribal Work Group. The work group will continue to work with tribal representatives and has written a document (N.1) that includes some potential guidance for sharing information about tribal uses.

D. SAT responses to science questions

Satie Airamé presented the draft responses to science questions and asked the SAT to review them in preparation for Wednesday's discussion.

E. North coast habitat data

Emily Saarman presented an update on the data layers for the north coast study region. Offshore rocks are now mapped with measurable shoreline length, the fine-scale substrate mapping data has been incorporated for 81% of the study region, the nearshore substrate proxy for 0-30m has been completed for 92% of the coast, the presence/absence of eelgrass in all major north coast estuaries has been confirmed, and the oceanographic data has not yet been mapped but is under review.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

F. Review and discuss SAT evaluation methods for the MLPA north coast study region

Jason Vasques presented the evaluation methods document and led the SAT through each of the chapters of the document. Emily Saarman presented specific changes to the levels of protection (LOP) chapter (the addition of the bull kelp LOP supporting text), the habitat replication chapter (additional text on the application of habitat size guidelines and the recommendation to include a habitat replicate in each bioregion), and the MPA spacing chapter (spacing is now measured between MPA edges, rather than between centroids). The SAT did not take any action on this document on day 1 of the meeting.

III. SAT Evaluations of Existing MPAs and North Coast External MPA Arrays

G. Overview of existing MPAs and external MPA arrays

Dominique Monié gave an overview of the existing MPAs and the eight external proposed MPA arrays submitted by community groups. She presented maps of the external MPA arrays, showed the overlap among the various external MPA arrays, and outlined the timeline for the review process. One important caveat is that in all evaluations, External Proposed MPA Array A, which proposed mobile MPAs, was evaluated as though the MPAs were static. In the future, the SAT could consider developing evaluation metrics that would enable the evaluation of mobile MPAs, if it appears the NCRSG will pursue this concept. Additionally, External MPA Array C designated several state marine conservation areas (SMCAs) as having no take except for tribal uses. Since none of the evaluations considered tribal uses during the evaluation process, staff will rerun certain evaluations. These new evaluations will treat the External Proposed MPA Array C SMCAs that only allow tribal take as “no take” areas; this is more representative of the intent of the proposers and allows for all arrays to be accurately compared.

H. Review and discuss the habitat representation and habitat replication evaluation results

Karina Nielsen presented the habitat representation and habitat replication evaluation results. Overall, external proposed MPA arrays C, D and E protect a higher amount of open coast habitat, while external proposed MPA arrays B, F, G and H protect less and were all similar to each other. The presentation to the NCRSG will include replication of MPAs down to Point Reyes, since the SAT has determined that the southern portion of the north coast study region is an extension of the northern bioregion of the north central coast study region. The SAT approved the evaluation results and the presentation.

I. Review and discuss the MPA size and MPA spacing evaluation results

Mark Carr presented the MPA size and MPA spacing evaluation results. Overall, External Proposed MPA Array D had the largest number of MPA clusters that met the size guidelines, External Proposed MPA Array A had the fewest, and external proposed MPA arrays B, F, G and H were similar to each other. The external proposed MPA arrays were ranked similarly during the MPA spacing evaluation, with External Proposed MPA Array D having the shortest gaps between protected habitats and External Proposed MPA Array A having the largest gaps between protected habitats. In the north coast study region, there are three habitats for which

the spacing guidelines are impossible to meet due to their patchy distribution: kelp, deep soft bottom, and deep rock. No proposal met the spacing guidelines for all possible habitats, though External Proposed MPA Array D met the guidelines for three habitats, and many proposals came close to meeting the guidelines for some habitats. The SAT approved this evaluation and presentation.

III. SAT Evaluations of Existing MPAs and North Coast External MPA Arrays (continued from day 1)

J. Review and discuss the bioeconomic model evaluation results

Eric Bjorkstedt presented the bioeconomic model evaluation results. The external proposed MPA arrays will be re-run during the Round 2 evaluations, since the models will be updated before then and have only been run for four species for Round 1 (redtail surfperch, black rockfish, cabezon, and red sea urchin). Overall, external proposed MPA arrays D and E had the highest conservation value, while external proposed MPA arrays B, F, G and H had lower conservation values but higher economic value for certain management scenarios. Maps of model outputs are available on the MLPA website. Members of the SAT discussed several aspects of the presentation, including potentially changing the term “conservation value” to “biomass,” acknowledging MPA Proposal 0 when appropriate, and specifically noting how External Proposed MPA Array A was considered for the evaluation (as static MPAs). The SAT voted to approve the evaluation results and the presentations, pending the above revisions.

K. Review and discuss the potential commercial and recreational fishery impacts evaluation results

Astrid Scholz presented the evaluation of potential commercial and recreational fishery impacts. The potential commercial impacts were largely similar across proposals, which is different from previous study regions. Shelter Cove and Fort Bragg would experience greater economic impacts than the other port complexes in this round of evaluations. Recreational impacts are not currently included in the presentation, but can be included in the future. The disproportionate fishery impact results were also not included since they are most informative in later rounds of proposal development. The SAT approved the evaluation and presentation.

L. Review and discuss the water quality evaluation results

Dominic Gregorio presented the water quality evaluation results. All external MPA proposals scored a “1” (the highest possible score) for MPAs in embayments, and all proposals had high scores and were generally similar to each other in coastal MPAs. There were a number of MPAs proposed in areas of special biological significance, which contributed to the high scores. Dominic praised the proposals as doing a good job in terms of water quality, though he reminded everyone that water quality concerns should be a secondary consideration when designing MPA arrays. The SAT approved the evaluation and presentation.

M. Review and discuss the marine birds and marine mammals evaluation results

Craig Strong presented the evaluation results for potential benefits to marine birds and marine mammals. The evaluation only considered state marine reserves (SMRs), but also included the state marine conservation areas in External Proposed MPA Array C that only allowed tribal uses and no other extractive activities. Overall, external proposed MPA arrays C, D, and E

performed the best, and external proposed MPA arrays B, F, G and H were all similar to each other. However, all arrays performed relatively poorly and captured only small percentages of habitats, and no marine mammal hot spots or gray whale foraging areas were captured in SMRs. The work group is currently running new analyses including new waterfowl data and a neritic foraging hotspot analysis. The SAT approved the evaluation results and presentation, with several caveats. The work group will add the following items to the presentation: a summary of proposal rankings at the bottom of each evaluation slide, a statement about how SMRs will decrease human activity, an explanation of why the analysis is done over the whole study region, a few editorial suggestions, and a modification of how the estuarine habitats are presented.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region (continued from day 1)

N. Discuss progress made by the SAT tribal work group

Satie Airamé presented the draft guidelines for sharing information about tribal activities. The SAT has had several meetings with tribal community members, and their feedback has been incorporated into the document. SAT members discussed the potential for an evaluation of the impact of different MPA proposals on tribal activities, similar to the evaluation of commercial and recreational fisheries; these evaluations are dependent on accurate data collection. The SAT agreed that the tribal work group should move forward with the document and try to determine how much data might become available and what the timeline for that data collection might be. SAT members and others should email Satie with comments on the document, and she will draft a letter from staff to tribal representatives asking for input on the document and data collection methods.

O. Review and discuss the species likely to benefit from MPAs in the north coast study region

Seth Miller presented the species likely to benefit list. The list and criteria document are largely unchanged from the versions presented at the January meeting, and the SAT approved the list and supporting criteria document.

P. Review and discuss water quality considerations in the MLPA north coast study region

Dominic Gregorio presented the draft water quality guidance document for the north coast study region. This document is similar to the document from the south coast study region but incorporates information from the north coast study region, particularly with regard to estuaries and point versus non-point sources of pollution.

IV. Science Guidance Questions from the Public and External Array Proponents

Q. Review and discuss SAT responses to science questions

Satie Airamé presented the draft SAT responses to science questions and requested SAT feedback on the responses. Some SAT members made minor editorial comments on the responses; the SAT approved the responses, which will be presented to the NCRSG at its March 24-25 meeting.

Next Steps

R. Other items

Satie Airamé confirmed presenters of the evaluation results for the March 24-25 NCRSG meeting. Mark Carr will present the size and spacing evaluations and the introductory section, Karina Nielsen will present the habitat representation and replication evaluations, Eric Bjorkstedt will present the bioeconomic modeling evaluation, I-Team staff member Brian Owens will present the water quality evaluation, and Craig Strong will present the marine birds and marine mammals evaluation. The next SAT meeting will be held via teleconference and webinar on May 12.

Public Comment

Members of the public commented during all public comment periods, and focused their comments on the evaluation results and presentations. Additional public comments included a request to revisit the sea urchin LOP, questions about how tribal uses will be considered in the evaluations process, and a request to have additional presentations about marine birds and marine mammals.

Briefing Documents

- B.1: MLPA Initiative Staff Memo Regarding Legal Guidance from the California Department of Fish and Game and California Fish and Game Commission Staff (February 19, 2010)
- E.1: PowerPoint Presentation: Habitat Data Update for the MLPA North Coast Regional Stakeholder Group
- F.1: Draft Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region (revised March 15, 2010)
- F.2: PowerPoint Presentation: Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region
- G.1: Overview Maps of Existing MPAs and External MPA Arrays in the MLPA North Coast Study Region
- G.2: PowerPoint Presentation: Overview of the MLPA North Coast Study Region External MPA Arrays
- H.1: PowerPoint Presentation: Draft Habitat Evaluations of the Round 1 External Proposed MPA Arrays for the MLPA North Coast Study Region
- H.2: Summary of Key Points from SAT Evaluations of Round 1 North Coast Proposed External MPA Arrays: Habitat Representation, Habitat Replication, MPA Size, and MPA Spacing Analyses (March 15, 2010)
- I.1: PowerPoint Presentation: Draft Size and Spacing Evaluations of the Round 1 External Proposed MPA arrays for the MLPA North Coast Study Region

- J.1: PowerPoint Presentation: Draft Bioeconomic Evaluations of the North Coast Study Region External MPA Arrays
- K.1: PowerPoint Presentation: Draft Potential Commercial and Recreational Fishing Impacts Evaluations of the North Coast Study Region External MPA Array Proposals
- K.2: Summary of Potential Impacts of the February 2010 Proposed External MPA Arrays on Commercial and Recreational Fisheries in the North Coast Study Region (March 15, 2010)
- L.1: PowerPoint Presentation: Water and Sediment Quality Evaluations of the North Coast External MPA Arrays
- M.1: PowerPoint Presentation: Draft Marine Birds and Marine Mammals Evaluations for Round 1 External Proposed MPA Arrays in the MLPA North Coast Study Region
- M.2: Draft Marine Mammal Evaluation Results for Round 1 External MPA Arrays: Draft Supplemental Information (March 13, 2010)
- M.3: Draft Marine Birds Evaluation Results for Round 1 External MPA Arrays: Draft Supplemental Information
- N.1: Draft Guidelines for Sharing Information about Tribal Activities (March 14, 2010)
- O.1: Draft Criteria for Creating the List of Species Likely to Benefit from Marine Protected Areas in the MLPA North Coast Study Region (revised December 14, 2009)
- O.2: Draft List of Species Likely to Benefit from MPAs in the MLPA North Coast Study Region-(revised January 15, 2010)
- P.1: Draft Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA North Coast Study Region (revised March 9, 2010)
- P.2: Water Quality Concerns and Opportunities: Draft Maps for the North Coast Study Region (Revised March 4, 2010)
- Q.1: Draft Responses to Science Questions Posed during MLPA Public Meetings from January 20 to February 11, 2010 (revised March 11, 2010)
- R.1: Summary of the February 11, 2010 Meeting of the MLPA Master Plan Science Advisory Team (February 17, 2010)

**California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised May 11, 2010)**

Wednesday, May 12, 2010 at 9:30 AM

via teleconference* and online meeting

**Toll-free conference call
Dial-in number: (877) 615-4339
Passcode: 7198327#**

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For public, onsite teleconference and webinar access with MLPA staff:

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA 95437

Resources Building*
1416 Ninth Street, Room 1320
Sacramento, CA 95814

Humboldt Bay Aquatic Center*
921 Waterfront Drive, Room 211
Eureka, CA 95501

California Department of Fish and Game*
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Flynn Center*
Multipurpose Room
981 H Street
Crescent City, CA 95531

UCSB Marine Science Institute*
Marine Science Research Building
Room 2318
Santa Barbara, CA 93106-6150

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_n.asp for more information.

Public parking is available at no charge at the above locations except for the Marine Science Research Building and the Resources Building.

- (1) The Marine Science Research Building is most easily accessed via bus from downtown Santa Barbara or Goleta by taking the UCSB express; directions and bus stop times are available at http://www.sbmtd.gov/Lines/Line_24x.htm Alternatively, UCSB campus visitor parking passes can be requested by contacting Satie Airame at airame@msi.ucsb.edu
- (2) The Resources Building is most easily accessed via the Light Rail Blue and Gold lines (<http://www.sacrt.com/systemmap/central.stm>). Parking in downtown Sacramento is via a city garage or metered street parking; members of the public can be reimbursed by staff at the building for any parking fees.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 12:25 p.m.** Time allotted for public comment is determined by the number of requests and can range from one to three

** This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TTY) or 800.735.2922 (voice) or contact the California Marine Life Protection Act Initiative at 916.654.1885.*

minutes per comment; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, MLPA Regional Stakeholder Group, or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive MLPA Initiative process updates*
- *Review and potentially adopt draft responses to science questions*
- *Review and potentially adopt water quality guidance for the north coast study region*
- *Review and potentially adopt updates to the SAT evaluations of habitat representation and replication and marine birds and mammals*
- *Review and potentially adopt science guidance for designing MPAs to inform adaptive management*

Meeting Agenda – Wednesday, May 12, 2010

Note: The SAT will break for lunch at approximately 11:40 a.m. and public comment will be taken immediately after at approximately 12:25 p.m. At the discretion of the co-chairs, agenda items may be heard in any order on the day of the meeting.

Welcome, Introductions and Review of Agenda

I. MLPA Initiative North Coast Process Updates

A. North Coast Planning Progress

II. SAT Work Group Updates

B. Bioeconomic Modeling

C. Tribal

BRIEFING DOCUMENT C.1: Letter from the MLPA Initiative to Tribes and Tribal Communities Requesting Information on Tribal Uses of Marine Resources (April 2, 2010)

III. Science Guidance Questions

D. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT response to science questions received up to March 25, 2010

BRIEFING DOCUMENT D.1: Draft Responses to Science Questions Posed during MLPA Public Meetings from March 1 to March 25, 2010 (May 10, 2010 Draft)

IV. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

E. Review and Discuss Updates to the Marine Birds and Mammals Evaluation Methods

Potential SAT Action: *Approve additions to the marine birds and mammals evaluation methods*

BRIEFING DOCUMENT E.1: PowerPoint Presentation: Marine Birds and Marine Mammals Evaluation Updates and New Approaches for Round 2

F. Review and Discuss Updates to the Habitat Representation and Replication Evaluation Methods

Potential SAT Action: *Approve additions to the habitat representation and replication evaluation methods*

BRIEFING DOCUMENT F.1: PowerPoint Presentation: Updates to Habitat Data and Habitat Replication and Representation Evaluation Methods

BRIEFING DOCUMENT F.2: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA North Coast Study Region, Chapters 4 & 5: Habitat Representation Analyses and Habitat Replication Analyses (Revised May 10, 2010)

G. Designing MPAs to Inform Adaptive Management

Potential SAT Action: *Approve SAT guidance for designing MPAs to inform adaptive management*

BRIEFING DOCUMENT G.1: Draft Proposed Concepts for Designing Experimental MPAs to Inform Adaptive Management (May 10, 2010 Draft)

BRIEFING DOCUMENT G.2: PowerPoint Presentation: Designing Experimental MPAs to Inform Adaptive Management- in the North Coast Study Region

H. Review and Discuss Water Quality Considerations

Potential SAT Action: *Approve the water quality guidance document*

BRIEFING DOCUMENT H.1: Draft Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA North Coast Study Region (Draft revised March 16, 2010)

BRIEFING DOCUMENT H.2: Water Quality Guidance Maps for the MLPA North Coast Study Region (March 18, 2010)

I. Review New Levels of Protection

Potential SAT Action: *Approve any new or revised levels of protection (LOPs)*

BRIEFING DOCUMENT I.1: PowerPoint Presentation: Levels of Protection in the MLPA North Coast Study Region

Wrap-up and Next Steps

J. Other Items

BRIEFING DOCUMENT J.1: California MLPA Master Plan Science Advisory Team Summary of the March 16-17, 2010 Meeting (revised April 5, 2010)

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the May 12, 2010 Meeting of the
MLPA Master Plan Science Advisory Team
Revised May 20, 2010

Meeting Date, Time and Place

Wednesday, May 12, 2010
 9:30 a.m.

Via teleconference and webinar

Public onsite access was provided at the following locations:

C.V. Starr Community Center* 300 South Lincoln Street Fort Bragg, CA 95437	Resources Building * 1416 Ninth Street, Room 1320 Sacramento, CA 95814
Humboldt Bay Aquatic Center* 921 Waterfront Drive, Room 211 Eureka, CA 95501	California Department of Fish and Game * 4665 Lampson Avenue, Suite C Los Alamitos, CA 90720
Flynn Center* Multipurpose Room 981 H Street Crescent City, CA 95531	UCSB Marine Science Institute Marine Science Research Building* Room 3322 Santa Barbara, CA 93106-6150

SAT members attending: Larry Allen, Eric Bjorkstedt, Mark Carr, Kevin Fleming, Steve Gaines, Dawn Goley, Dominic Gregorio, David Hankin, John Largier, Ron LeValley, Phillip Levin, Steven Morgan, Steven Murray, Karina Nielsen, Pete Raimondi, Steven Rumrill, Astrid Scholz, Craig Strong, Steve Wertz, and Will White.

SAT members absent: Chris Costello.

Meeting Objectives

- Receive MLPA Initiative process updates
- Review and potentially adopt draft responses to science questions from the public and external array proponents
- Review and potentially adopt water quality guidance for the north coast study region
- Review and potentially adopt updates to the MLPA Master Plan Science Advisory Team (SAT) evaluations of habitat representation and replication and marine birds and mammals
- Review and potentially adopt science guidance *for designing MPAs to inform adaptive management*

Both audio and video recordings of this meeting are available on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp.

Executive Summary

On May 12, 2010, the sixth meeting of the Marine Life Protection Act (MLPA) Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held via teleconference and webinar. Members of the public were invited to various locations throughout the study region and California to hear and view the meeting.

The SAT engaged in spirited conversations throughout the meeting on a wide variety of topics. SAT members voted to:

- Approve draft responses to science questions (Briefing Document D.1, pending some changes)
- Approve new components of the evaluation methods for marine birds and marine mammals (Agenda Item E)
- Approve new replication thresholds for soft bottom habitats and a new method of evaluating habitats in MPAs that straddle the bioregion boundary (Briefing Document F.2)
- Forward the document on adaptive management (Briefing Document G.1) to the stakeholders as a draft document that has not yet received full approval of the SAT
- Approve the revised water quality guidance document and maps (Briefing Documents H.1 and H.2)
- Keep the level of protection (LOP) for redbait surfperch at Moderate

Meeting Summary

Welcome, Introductions and Review of Agenda

On May 12, 2010, the sixth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held via teleconference and webinar. Members of the public were invited to locations throughout the study region and California to hear and view the meeting.

I. MLPA Initiative North Coast Process Updates

A. North Coast planning progress

Ken Wiseman gave an update on the NCSR planning progress, focusing on the recent guidance from the MLPA Blue Ribbon Task Force (BRTF) to the MLPA North Coast Regional Stakeholder Group (NCRSG). One component of this guidance is that the BRTF reconfirmed that the proposed MPA arrays should meet the science guidelines. Ken Wiseman also described a potential motion by BRTF member Meg Caldwell regarding tribal uses that will be discussed by the BRTF via conference call on May 17, 2010. The SAT discussed the potential language, especially with regard to how levels of protection are assigned. Two SAT members,

Mark Carr and Ron LeValley, volunteered to convey this information to the BRTF during their teleconference next Monday.

II. SAT Work Group Updates

B. Bioeconomic modeling

Satie Airamé presented an update on the progress made by the modeling work group since the last SAT meeting. The modeling work group has integrated three new species into the model (brown rockfish, red abalone, and Dungeness crab). Due to the unique nature of the males-only Dungeness crab fishery, the model has been modified for that species and the results will be presented separately from the averaged model results. The three new species have been included in model runs for the Round 1 marine protected area (MPA) proposals, and those results will be posted to the website soon, along with the results from the genetic connectivity model. During Round 2, the modeling work group will compare the two models to ensure they produce consistent results; the models will then be integrated for future rounds.

C. SAT tribal work group

Satie Airamé and Ken Wiseman gave an update on the progress of the SAT tribal work group. Ken described the process so far and noted that all parties are working together to provide the MLPA Initiative with the best information about tribal issues in the north coast study region.

Satie informed the SAT that the tribal work group has been moving forward to develop a plan for incorporating tribal information. A letter was sent to tribes in the north coast study region explaining the MLPA process and requesting assistance in determining what kind of information is important and how to collect that information. Feedback from the letter has led to the development of a new proposal on how to incorporate tribal information, which will be presented to the NCRSG and SAT for feedback. The proposal aims to take the Round 2 MPA proposals to tribes for discussion; the tribes would identify geographies of importance and discuss activities they would like to see allowed in proposed MPAs. Satie would then present an aggregated list of proposed allowed uses to the NCRSG at their July meeting for consideration. The work group is developing a datasheet for use during this process, and the meetings with tribes could start as soon as May 21 after the Round 2 NCRSG proposals are submitted.

III. Science Guidance Questions from the Public and External Array Proponents

D. Review and discuss SAT responses to science questions

Satie Airamé presented the draft SAT responses to science questions. SAT members decided that one question (Question 10, addressing the stock status of rockfish) should not come from the SAT because the response was developed by the California Department of Fish and Game and the reported stock assessment information was not a SAT product. Pending some minor edits and the inclusion of Question 10 in a separate document, the SAT voted to approve the responses to science questions.

IV. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

E. Review and discuss updates to the marine birds and marine mammals evaluation methods

Craig Strong and Ron LeValley presented the updates to the marine birds and marine mammals evaluation methods. The new evaluation components include the neritic foraging analysis, waterfowl analysis and data regarding the shorebird use of Humboldt Bay. The SAT voted to approve these new evaluation components, and the work group will revise the evaluation methods chapter for potential approval at the next SAT meeting.

F. Review and discuss updates to the habitat representation and replication evaluation methods

Emily Saarman updated the SAT on the progress of the habitat work group. Major upwelling centers and river plumes are now mapped, rocky shore and offshore rocks data has been updated, and the 0-30m proxy line has been modified. Karina Nielsen presented new information about how MPAs that straddle the bioregion boundary will be included in the habitat replication evaluation. For Round 2, MPAs that straddle the bioregion boundary and meet the habitat representation requirements will count for one-half of a habitat replicate in each bioregion. Karina showed a graph of how these replicates would be presented, which included existing habitat replicates from the north central coast study region. The SAT voted to approve this approach.

Pete Raimondi presented information on the habitat representation requirements for soft bottom habitats. SAT members engaged in a robust discussion of the topic, including a reassurance that the best available data showed that these habitat numbers are appropriate and not artificially high. Based on their discussion and public input, the SAT decided to eliminate two of the six methods for counting soft bottom habitats, as they were determined to be redundant. The SAT voted to approve the habitat representation requirements for soft bottom habitats, pending the removal of the counting methods for deeper than 100m and 0-3000m habitats.

G. Designing MPAs to inform adaptive management

Mark Carr gave a presentation detailing draft guidance to stakeholders on how to design experimental MPAs to inform management. The presentation gave two options for how stakeholders could design MPA arrays to provide opportunities to study the potential impacts of species removal. SAT members had a long discussion on the topic, with some members feeling that there was too much detail in the presentation or that the second design option was too complicated to be feasible. Others felt that the information provided in the presentation was important to forward to the NCRSG regardless of the level of detail or potential complexity of the design process. A motion was made to approve the presentation and associated document as draft products with the caveats that some members of the SAT felt there was too much detail and the work group will revisit the issue to develop broader guidance. The SAT voted to approve forwarding the presentation and associated document to the NCRSG as draft products.

H. Review and discuss water quality considerations for MPAs in the MLPA North Coast Study Region

Dominic Gregorio presented the updated water quality document and reviewed its changes. The water quality work group added information including clarification of sources of data, elaboration on mussel watch data, more data from the Eel River watershed, and additional comments on the benthic impacts of sedimentation. The work group also modified the maps included in the document. The SAT voted to approve the document.

I. Review new levels of protection

Larry Allen presented information regarding the level of protection (LOP) for redbait surfperch. Some members of the work group felt that given the low fishing effort in the NCSR and the uncertainties about the size of redbait surfperch home ranges, the species' LOP should be raised to Moderate-High. Other members of the work group felt that since one of the assumptions when assigning LOPs is that maximum effort could occur, and that the redbait surfperch home ranges could be relatively small, the LOP should remain at Moderate. After a thorough discussion, the majority of SAT members voted to keep the redbait surfperch LOP at Moderate.

Wrap-up and Next Steps

J. Other items

Jason Vasques gave a brief update on the evaluation timeline for Round 2 MPA proposals; by June 3 the data should be ready to distribute to members of the SAT evaluation work groups, and the evaluations should be conducted by the next SAT meeting on June 29-30 in Eureka.

Public Comments

Members of the public commented on the proceedings both via individual phone lines and from three "nodes" in Fort Bragg, Eureka, and Crescent City. Comments included clarifying questions, statements about how using local knowledge could be beneficial to the process, and requests to review certain levels of protection. Members of the public also praised staff for the timely posting of meeting materials online and provided some information about what MPA proposals might look like in Round 2.

Briefing Documents

- C.1: Letter from the MLPA Initiative to Tribes and Tribal Communities Requesting Information on Tribal Uses of Marine Resources (April 2, 2010)
- D.1: Draft Responses to Science Questions Posed during MLPA Public Meetings from March 1 to March 25, 2010 (May 10, 2010 Draft)
- E.1: PowerPoint Presentation: Marine Birds and Marine Mammals Evaluation Updates and New Approaches for Round 2
- F.1: PowerPoint Presentation: Updates to Habitat Data and Habitat Replication and Representation Evaluation Methods

- F.2: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA North Coast Study Region, Chapters 4 & 5: Habitat Representation Analyses and Habitat Replication Analyses (Revised May 10, 2010)
- G.1: Draft Proposed Concepts for Designing Experimental MPAs to Inform Adaptive Management (May 10, 2010 Draft)
- G.2: PowerPoint Presentation: Designing Experimental MPAs to Inform Adaptive Management- in the North Coast Study Region
- H.1: Draft Recommendations for Considering Water Quality and Marine Protected Areas in the MLPA North Coast Study Region (Draft revised March 16, 2010)
- H.2: Water Quality Guidance Maps for the MLPA North Coast Study Region (March 18, 2010)
- I.1: PowerPoint Presentation: Levels of Protection in the MLPA North Coast Study Region
- J.1: California MLPA Master Plan Science Advisory Team Summary of the March 16-17, 2010 Meeting (revised April 5, 2010)

**California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised June 28, 2010)**

**Tuesday, June 29, 2010 at 1:00 PM
Wednesday June 30, 2010 at 8:30 AM**

**Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501**

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Members of the public who wish to videotape or audiotape the meeting are allowed only in designated areas so as to avoid disrupting the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_n.asp for more information. In addition, the following locations will be open to the public to view and participate in the meeting remotely:

C.V. Starr Community Center*
**300 South Lincoln Street
Fort Bragg, CA 95437**

Flynn Center*
**Multipurpose Room
981 H Street
Crescent City, CA 95531**

Note the Crescent City location has changed

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) on **Wednesday, June 30 at approximately 12:20 p.m.** Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the chair; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force or other MLPA Initiative activities should be directed to the task force or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive updates on the MLPA North Coast Study Region marine protected area (MPA) planning process*
- *Review and potentially approve additions to the evaluation methods document for marine birds and mammals, habitat representation and replication, and bioeconomic modeling*
- *Review and potentially adopt the SAT evaluations of the North Coast Regional Stakeholder Group (NCRSG) Round 2 MPA proposals*
- *Review and potentially approve SAT responses to science questions*

** This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TTY) or 800.735.2922 (voice), or contact the California Marine Life Protection Act Initiative at 916.654.1885.*

Meeting Agenda – Tuesday, June 29, 2010

Note: General public comment will be taken on Wednesday June 30 at approximately 12:20 p.m. At the discretion of the co-chairs, agenda items may be heard in any order and on either day of the meeting.

Welcome, Agenda Review and Brief Introductions

I. MLPA Initiative North Coast Process Updates

A. North Coast Planning Progress

BRIEFING DOCUMENT A.1: California MLPA Blue Ribbon Task Force Motion Regarding Traditional, Non-Commercial Tribal Uses of Marine Resources in the MLPA North Coast Study Region (Adopted May 17, 2010)

B. SAT Tribal Work Group

BRIEFING DOCUMENT B.1: Letter inviting a review of NCRSG Round 2 MPA proposals (May 28, 2010)

BRIEFING DOCUMENT B.2: Data Sheet for Submitting Input from California Tribes and Tribal Communities Regarding Allowed Uses for North Coast Round 2 Draft Marine Protected Areas Proposals (June 25, 2010)

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

C. Review and Discuss Additions to the Marine Birds and Marine Mammals Evaluation Methods

Potential SAT Action: *Approve additions to the SAT evaluation methods for marine birds and marine mammals*

BRIEFING DOCUMENT C.1: Methods used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Chapter 9 – Protection of Marine Birds and Marine Mammals (Revised June 16, 2010)

D. Review and Discuss Additions to the Habitat Representation and Habitat Replication Evaluation Methods

Potential SAT Action: *Approve additions to the SAT evaluation methods for habitat representation and habitat replication*

BRIEFING DOCUMENT D.1: Methods used to Evaluate Draft MPA Proposals in the MLPA North Coast Study Region Chapters 4 & 5: Habitat Replication Analyses and Habitat Representation Analyses- (Revised June 27, 2010)

E. Review and Discuss Additions to the Bioeconomic Model Evaluation Methods

Potential SAT Action: *Approve additions to the SAT evaluation methods for bioeconomic modeling*

BRIEFING DOCUMENT E.1: Methods used to Evaluate Draft MPA Proposals in the North Coast Study Region (DRAFT) Chapter 8 – Bioeconomic Modeling (Revised June 26, 2010)

III. SAT Evaluations of North Coast Regional Stakeholder Group Round 2 Draft MPA proposals

F. Overview of North Coast Regional Stakeholder Group Round 2 Draft MPA proposals

BRIEFING DOCUMENT F.1: PowerPoint Presentation: Overview of the NCRSG Round 2 Draft MPA Proposals (June 29, 2010)

BRIEFING DOCUMENT F.2: Overview Maps of the NCRSG Round 2 Draft MPA Proposals (June 03, 2010)

G. Review and Discuss the Water Quality Evaluation Results

Potential SAT Action: *Approve the summary of water quality evaluation results*

BRIEFING DOCUMENT G.1: PowerPoint Presentation: Water and Sediment Quality Evaluations of the North Coast External MPA Array Proposals (June 29, 2010)

BRIEFING DOCUMENT G.2: Draft Summary of SAT Water and Sediment Quality Evaluation of Round 2 NCRSG MPA Proposals for the MLPA North Coast Study Region (June 25, 2010)

H. Review and Discuss the Marine Birds and Marine Mammals Evaluation Results

Potential SAT Action: *Approve the summary of marine birds and marine mammals evaluation results*

BRIEFING DOCUMENT H.1: PowerPoint Presentation: Draft Marine Birds and Marine Mammals Evaluations for Round 2 North Coast Proposed Marine Protected Areas (June 29, 2010)

BRIEFING DOCUMENT H.2: Draft Evaluations of Benefits to Marine Mammals from Round 2 North Coast Proposed Marine Protected Areas (June 29, 2010)

BRIEFING DOCUMENT H.3: Draft Evaluations of Benefits to Marine Birds from Round 2 North Coast Proposed Marine Protected Areas (June 25, 2010)

Recess

Meeting Agenda – Wednesday, June 30, 2010

The SAT will break for lunch at approximately 11:35 a.m. and general public comment will be taken immediately after at approximately 12:20 p.m. At the discretion of the co-chairs, agenda items may be heard in any order on either day of the meeting.

Review Agenda for Day 2

III. SAT Evaluations of North Coast Regional Stakeholder Group Round 2 Draft MPA proposals (continued from Day 1)

I. Review and Discuss the Habitat Representation and Habitat Replication Evaluation Results

Potential SAT Action: *Approve the summary of habitat representation and habitat replication evaluation results*

BRIEFING DOCUMENT I.1: PowerPoint Presentation: Draft Habitat Evaluations of the North Coast Study Region RSG Round 2 Draft MPA Proposals (June 30, 2010)

J. Review and Discuss the MPA Size and MPA Spacing Evaluation Results

Potential SAT Action: *Approve the summary of MPA size and MPA spacing evaluation results*

BRIEFING DOCUMENT J.1: PowerPoint Presentation: Draft Size and Spacing Evaluations of the North Coast Study Region RSG MPA Array Proposals (June 30, 2010)

BRIEFING DOCUMENT J.2: Summary of SAT Evaluations of the NCRSG Round 2 Draft MPA Proposals: Habitat representation, Habitat replication, Size, and Spacing Analyses (Placeholder)

K. Review and Discuss the Bioeconomic Model Evaluation Results

Potential SAT Action: *Approve the summary of bioeconomic modeling evaluation results*

BRIEFING DOCUMENT K.1: PowerPoint Presentation: Spatial Bioeconomic Model Evaluations of Round 2 Proposed MPA Arrays for the MLPA North Coast Study Region (June 30, 2010)

BRIEFING DOCUMENT K.2: Draft Bioeconomic Model Evaluations of Round 2 NCRSG Draft Marine Protected Area Proposals for the MLPA North Coast Study Region (June 24, 2010)

L. Review and Discuss the Potential Commercial and Recreational Fishery Impacts Evaluation Results

Potential SAT Action: *Approve the summary of potential commercial and recreational fishing impacts evaluation results*

BRIEFING DOCUMENT L.1: PowerPoint Presentation: Draft Round 2 Evaluation of Potential Impacts to Commercial and Recreational Fisheries (June 30, 2010)

BRIEFING DOCUMENT L.2: Summary of Potential Impacts of the Round 2 North Coast Regional Stakeholder Group Draft MPA Proposals on Commercial and Recreational Fisheries in the North Coast Study Region (June 24, 2010)

IV. Science Questions

M. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT responses to science questions from the public

BRIEFING DOCUMENT M.1: Draft Responses to Science Questions Posed During MLPA Public Meetings and Via Email from May 3 - 20, 2010- (Placeholder)

Wrap-up and Next steps

N. Other Items

BRIEFING DOCUMENT N.1: Summary of the May 12, 2010 Meeting of the MLPA Master Plan Science Advisory Team (May 20, 2010)

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised July 27, 2010)

Wednesday, July 28, 2010 at 9:30 AM

via teleconference* and online meeting

Toll-free conference call
Dial-in number: (877) 615-4339
Passcode: 8858231

Presentations via GoToMeeting
Make your reservation now at
<https://www1.gotomeeting.com/register/276612984>

For teleconference and webinar access with MLPA staff, join a public participation location:

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA 95437

California Department of Fish and Game*
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Humboldt Bay Aquatic Center*
Room 211
921 Waterfront Drive
Eureka, CA 95501

Flynn Center*
Multipurpose Room
981 H Street
Crescent City, CA 95531

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_nc.asp for more information.

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 12:15 p.m.** Time allotted for public comment is determined by the number of requests and can range from one to three minutes per comment; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, MLPA Regional Stakeholder Group, or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive MLPA Initiative process updates*
- *Review and potentially adopt responses to science questions*
- *Review and potentially adopt the summary of SAT evaluation results for habitat representation, Habitat replication and marine protected area (MPA) size and MPA spacing*

** This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TT) or 800.735.2922 (voice) and ask them to contact the California Marine Life Protection Act Initiative at 916.653.5656.*

Meeting Agenda – Wednesday, July 28, 2010

Note: The SAT will break for lunch at approximately 11:30 a.m. and general public comment will be taken immediately after lunch at approximately 12:15 p.m. At the discretion of the co-chairs, agenda items may be heard in any order on the day of the meeting.

Welcome, Introductions and Review of Agenda

I. Updates

A. North Coast Planning Progress

B. SAT Tribal Work Group

BRIEFING DOCUMENT B.1: Data Sheet for Submitting Input from California Tribes and Tribal Communities Regarding Allowed Uses for North Coast Round 2 Draft Marine Protected Areas Proposals (June 26, 2010)

C. Experimental MPAs

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

D. Review of the SAT MPA Evaluation Methods Document

Potential SAT Action: Approve additions to the levels of protection chapter and the executive summary

BRIEFING DOCUMENT D.1: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA North Coast Study Region (July 27, 2010)

BRIEFING DOCUMENT D.2: PowerPoint Presentation: Levels of Protection in the North Coast Study Region

E. Discuss the NCRSG Round 2 Draft MPA Proposal Evaluation Summary Document for Habitat Representation, Habitat Replication and MPA Size and MPA Spacing

Potential SAT Action: Approve the habitat representation, habitat replication and MPA size and MPA spacing results summary document

BRIEFING DOCUMENT E.1: Summary of SAT Evaluation of North Coast Round 2 Draft MPA Proposals: Habitat Representation, Habitat Replication, MPA Size and MPA Spacing Analyses (revised July 14, 2010)

F. Review and Discuss BRTF Guidance Provided at its July 21-22, 2010 meeting

BRIEFING DOCUMENT F.1: BRTF Motion Regarding Round 3 of the Marine Protected Area Planning Process for the MLPA North Coast Study Region (Adopted July 22, 2010)

BRIEFING DOCUMENT F.2: MLPA Initiative Staff Memo Regarding Planned Process Design for Developing Round 3 Marine Protected Area Proposals (July 16, 2010)

III. Science Questions

G. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT response to science questions

BRIEFING DOCUMENT G.1: Draft Responses to Science Questions Posed during the June 29-30, 2010 MLPA Master Plan Science Advisory Team Meeting (July 27, 2010)

Wrap-up and Next Steps

H. Other Items

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the July 28, 2010 Meeting of the
MLPA Master Plan Science Advisory Team
Revised August 15, 2010

Meeting Date, Time and Place

Wednesday, July 28, 2010
 9:30 a.m. to 2:00 p.m.

Via teleconference and webinar

Public onsite access was provided at the following locations:

C.V. Starr Community Center
 300 South Lincoln Street
 Fort Bragg, CA 95437

Flynn Center
 Multipurpose Room
 981 H Street
 Crescent City, CA 95531

Humboldt Bay Aquatic Center
 921 Waterfront Drive, Room 211
 Eureka, CA 95501

California Department of Fish and Game
 4665 Lampson Avenue, Suite C
 Los Alamitos, CA 90720

SAT members attending: Larry Allen, Eric Bjorkstedt, Mark Carr, Chris Costello, Kevin Fleming, Dominic Gregorio, David Hankin, John Largier, Ron LeValley, Phillip Levin, Steven Morgan, Karina Nielsen, Pete Raimondi, Steven Rumrill, Craig Strong, Steve Wertz, and Will White.

SAT members absent: Steve Gaines, Dawn Goley, Steven Murray, and Astrid Scholz.

Meeting Objectives

- Receive MLPA Initiative process updates
- Review and potentially adopt draft responses to science questions
- Review and potentially adopt the summary of SAT evaluation results for habitat representation, Habitat replication and marine protected area (MPA) size and MPA spacing

Both audio and video recordings of this meeting are available on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp.

Executive Summary

On July 28, 2010, the eighth meeting of the Marine Life Protection Act (MLPA) Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held via teleconference and webinar. Members of the public were invited to various locations throughout the study region and California to hear and view the meeting.

The SAT engaged in spirited conversations throughout the meeting on a wide variety of topics. SAT members voted to approve the following briefing documents:

- D.1: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA North Coast Study Region (Revised July 27, 2010)
- E.1: Summary of SAT Evaluation of North Coast Round 2 Draft MPA Proposals: Habitat Representation, Habitat Replication, and MPA Size and MPA Spacing Analyses (Revised July 14, 2010)
- G.1: Draft Responses to Science Questions Posed during the MLPA Master Plan Science Advisory Team Meeting on June 29-30, 2010 (July 27, 2010)

Meeting Summary

Welcome, Introductions and Review of Agenda

On July 28, 2010, the eighth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held via teleconference and webinar. Members of the public were invited to locations throughout the study region and California to hear and view the meeting.

I. MLPA Initiative North Coast Process Updates

A. North Coast planning progress

Ken Wiseman gave an update on the north coast planning progress. The MLPA Blue Ribbon Task Force (BRTF) held a successful meeting last week in Fort Bragg. Of particular note to the SAT, the BRTF requested that the North Coast Regional Stakeholder Group (NCRSG) provide them with a range of proposals, including at least one that meets the science guidelines. The BRTF emphasized that it was important for them to see a proposal that meets the science guidelines before they make any policy decisions concerning the inclusion of specific MPAs.

B. SAT tribal work group update

Satie Airamé presented an update on the SAT tribal work group. Staff members have met with 18 north coast tribes and tribal communities to discuss the Round 2 MPA proposals, identify

areas of tribal importance, and review proposed allowed uses. Numerous tribes have volunteered data using the worksheet provided by the tribal work group; for confidentiality, the data have been aggregated, though not all tribes are represented in the results.

C. Experimental MPAs

Seth Miller gave an update on the experimental MPAs document. The document was forwarded to the NCRSG in May as a draft that had not yet been approved by the full SAT. Only one Round 2 MPA was identified by the NCRSG as being specifically designated as a research MPA. NCRSG members are encouraged to review the draft document on experimental MPAs if they would like to design them during Round 3. If a substantial number of experimental MPAs are proposed during Round 3, the SAT will evaluate those MPAs for their utility as experimental MPAs.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

D. Review of the SAT MPA evaluation methods document

Seth Miller presented an update from the levels of protection (LOPs) work group. To date in the NCSR, the work group has assigned LOPs to 24 species or species groups, all of which are represented on the list of 69 species or species groups that may be of interest to north coast tribes and tribal communities. If stakeholders are considering new allowed uses in their Round 3 proposals to which the SAT has not assigned an LOP, they were encouraged to tell MLPA Initiative staff members so the work group would have ample time to develop the new LOPs.

Emily Saarman reviewed some changes to the LOP chapter of the SAT evaluation methods document. The changes mostly involved the supporting text for the redbelt surfperch LOP that was approved by the SAT during their June 29-30, 2010 meeting. Other chapters of the evaluation methods document had minor changes, including the marine birds and marine mammals chapter and the MPA spacing chapter. The SAT voted to approve the changes to the evaluation methods document.

E. Discuss the NCRSG Round 2 draft MPA proposal evaluation summary document for habitat representation, habitat replication, and MPA size and MPA spacing

Karina Nielsen presented the evaluation summary document for habitat representation, habitat replication, and MPA size and MPA spacing. Though the SAT approved the presentation of these results during their June 29-30, 2010 meeting, the summary document was accidentally not made available until shortly before that meeting, so the SAT postponed the vote. The SAT voted to approve the document.

F. Review and discuss BRTF guidance provided at its July 21-22, 2010 meeting

Melissa Miller-Henson and Satie Airamé provided a review of the guidance provided by the BRTF. The BRTF is working hard to take into account traditional tribal gathering uses in the marine environment. Based on the BRTF guidance, MLPA Initiative staff members developed two possible approaches for the Round 3 SAT evaluations of draft MPA proposals. In both approaches, stakeholders are advised to identify species and gear types so a proposal can be implemented by the state within the framework of the current California Fish and Game Code and the California Code of Regulations, Title 14. The SAT could then assign an LOP to each activity that was proposed in an MPA. The first potential evaluation approach is to conduct the evaluations as in Round 2 and only include MPA clusters with at least a moderate-high level of protection in some evaluations. The second potential evaluation approach is to include in those evaluations MPAs that have LOPs lower than moderate-high if those lower LOPs are assigned to activities that are intended to be for tribal use only. The SAT discussed the two approaches and is interested in providing the BRTF with as much information as possible to assist their deliberations.

III. Science Guidance Questions from the Public and North Coast Regional Stakeholder Group

G. Review and discuss SAT responses to science questions

Seth Miller presented the draft responses to science questions. SAT members discussed a number of the questions, suggested some minor edits, and developed several new sentences to include as a preface to one of the questions. The SAT voted to approve the responses pending those edits.

Wrap-up and Next Steps

H. Other items

Satie Airamé reviewed the process timeline, specifically the timeline of the Round 3 evaluations. The next SAT meeting will be October 13-14, 2010 in Eureka.

Public Comments

Members of the public commented during numerous public comment periods throughout the meeting. Comments included information about Humboldt squid, questions about evaluation results, and concern about the potential economic impacts of MPAs in the north coast.

Briefing Documents

- B.1: Data Sheet for Submitting Input from California Tribes and Tribal Communities Regarding Allowed Uses for North Coast Round 2 Draft Marine Protected Areas Proposals (June 26, 2010)
- D.1: Draft Methods Used to Evaluate Marine Protected Area Proposals in the MLPA North Coast Study Region (Revised July 27, 2010)
- D.2: PowerPoint Presentation: Levels of Protection in the North Coast Study Region (July 28, 2010)
- E.1: Summary of SAT Evaluation of North Coast Round 2 Draft MPA Proposals: Habitat Representation, Habitat Replication, and MPA Size and MPA Spacing Analyses (Revised July 14, 2010)
- F.1: BRTF Motion Regarding Round 3 of the Marine Protected Area Planning Process for the MLPA North Coast Study Region (Adopted July 22, 2010)
- F.2: Planned Process Design for Developing Round 3 Marine Protected Area Proposals (July 16, 2010)
- G.1: Draft Responses to Science Questions Posed during the MLPA Master Plan Science Advisory Team Meeting on June 29-30, 2010 (July 27, 2010)

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised October 12, 2010)

Wednesday, October 13, 2010 at 1:00 PM
Thursday October 14, 2010 at 8:30 AM

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

Public Participation: Members of the public are invited to attend the meeting in person or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Members of the public who wish to videotape or audiotape the meeting are allowed only in designated areas so as to avoid disrupting the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_n.asp for more information. In addition, the following locations will be open to the public to view and participate in the meeting remotely:

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA 95437

Flynn Center Multipurpose Room*
981 H Street
Crescent City, CA 95531

Public comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) on **Wednesday, October 13 at approximately 3:35 p.m.** Speaker cards are requested and may be found at the entrance to the room. Time allotted for public comment is determined by the chair; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force or other MLPA Initiative activities should be directed to the task force or MLPA staff.

Meeting materials will not be provided at the meeting but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive updates on the MLPA North Coast Study Region marine protected area (MPA) planning process*
- *Review and potentially approve SAT responses to science questions*
- *Review and potentially approve new proposed levels of protection designations*
- *Review and potentially adopt the document, Methods Used to Evaluate MPA Proposals in the North Coast Study Region*
- *Review and potentially adopt the SAT evaluations of the Round 3 MLPA North Coast Regional Stakeholder Group (NCRSG) MPA Proposal*

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Meeting Agenda – Wednesday, October 13, 2010

Note: General public comment will be taken on Wednesday October 13 at approximately 3:35 p.m. At the discretion of the co-chairs, agenda items may be heard in any order and on either day of the meeting.

Welcome, Agenda Review and Brief Introductions

I. MLPA Initiative North Coast Process Updates

- A. North Coast Planning Progress
- B. SAT Tribal Work Group

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

C. Review and Discuss New Proposed Levels of Protection

Potential SAT Action: Approve any new or revised levels of protection

BRIEFING DOCUMENT C.1: PowerPoint Presentation: Levels of Protection in the MLPA North Coast Study Region

D. Review and Discuss the SAT Evaluation Methods

Potential SAT Action: Approve the additions to the SAT evaluation methods document

BRIEFING DOCUMENT D.1: Draft Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region, Section 10.0 Water and Sediment Quality (Revised August 24, 2010)

III. Science Questions

E. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT responses to science questions

BRIEFING DOCUMENT E.1: Draft Responses to Science Questions Posed during the July 29-30, 2010 North Coast Regional Stakeholder Group Meeting (revised August 26, 2010)

IV. SAT Evaluations of the Round 3 MLPA North Coast Regional Stakeholder Group MPA Proposal

F. Overview Round 3 North Coast Regional Stakeholder Group Round 3 MPA Proposal

BRIEFING DOCUMENT F.1: PowerPoint Presentation: Overview of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT F.2: Overview Maps of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT F.3: PowerPoint Presentation: Overview of the Round 3 NCRSG Special Closures Recommendation

BRIEFING DOCUMENT F.4: Description of MPAs in the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT F.5: Habitat Calculations for the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT F.6: Round 3 NCRSG Special Closures Recommendation: Basic Information

BRIEFING DOCUMENT F.7: Round 3 NCRSG Special Closures Recommendation

G. Review and Discuss the Marine Birds and Marine Mammals Evaluation Results

Potential SAT Action: Approve the summary of marine birds and marine mammals evaluation results

BRIEFING DOCUMENT G.1: PowerPoint Presentation: Draft Marine Birds and Marine Mammals Evaluation of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT G.2: SAT Evaluation of the Round 3 NCRSG MPA Proposal: Benefits to Marine Mammals

BRIEFING DOCUMENT G.3: SAT Evaluation of the Round 3 NCRSG MPA Proposal: Benefits to Marine Birds

H. Review and Discuss Water Quality Evaluation Results

Potential SAT Action: Approve the summary of water quality evaluation results

BRIEFING DOCUMENT H.1: PowerPoint Presentation: Water and Sediment Quality Evaluation of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT H.2: SAT Evaluation of the Round 3 NCRSG MPA Proposal: Water and Sediment Quality

Recess

Meeting Agenda – Thursday, October 14, 2010

At the discretion of the co-chairs, agenda items may be heard in any order on either day of the meeting.

Review Agenda for Day 2

IV. SAT Evaluations of the Round 3 MLPA North Coast Regional Stakeholder Group MPA Proposal (continued from Day 1)

I. Review and Discuss the Potential Commercial and Recreational Fishery Impacts Evaluation Results

Potential SAT Action: Approve the summary of potential commercial and recreational fishing impacts evaluation results

BRIEFING DOCUMENT I.1: PowerPoint Presentation: Potential Commercial and Recreational Fishery Impacts of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT I.2: SAT Evaluation of the Round 3 NCRSG MPA Proposal: Potential Commercial and Recreational Fishery Impacts

J. Review and Discuss the Habitat Representation and Habitat Replication Evaluation Results

Potential SAT Action: Approve the summary of habitat representation and habitat replication evaluation results

BRIEFING DOCUMENT J.1: PowerPoint Presentation: Habitat Representation and Habitat Replication Evaluations of the Round 3 NCRSG MPA Proposal

K. Review and Discuss the MPA Size and MPA Spacing Evaluation Results

Potential SAT Action: Approve the evaluation result summary for MPA size, and MPA spacing, habitat representation, and habitat replication

BRIEFING DOCUMENT K.1: PowerPoint Presentation: MPA Size and MPA Spacing Evaluation of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT K.2: SAT Evaluation of the Round 3 NCRSG MPA Proposal: Habitat Representation, Habitat Replication, MPA Size, and MPA Spacing Analyses

L. Review and Discuss the Bioeconomic Model Evaluation Results

Potential SAT Action: Approve the summary of bioeconomic model evaluation results

BRIEFING DOCUMENT L.1: PowerPoint Presentation: Spatial Bioeconomic Model Evaluation of the Round 3 NCRSG MPA Proposal

BRIEFING DOCUMENT L.2: SAT Evaluation of the Round 3 NCRSG MPA Proposal: Bioeconomic Model Analysis

V. Wrap-up and Next steps

M. Other Items

BRIEFING DOCUMENT M.1: Summary of the July 28, 2010 Meeting of the MLPA Master Plan Science Advisory Team

Adjourn

California MLPA Master Plan Science Advisory Team
Summary of the October 13-14, 2010 Meeting of the
MLPA Master Plan Science Advisory Team (SAT)
Revised November 5, 2010

Meeting Date, Time and Place

Wednesday, October 13, 2010
1:00 p.m. – 5:00 p.m.

and

Thursday, October 14, 2010
8:30 a.m. – 12:00 p.m.

Red Lion Hotel Eureka
1929 Fourth Street
Eureka, CA 95501

In addition, the following locations were open to the public to view and participate in the meeting remotely:

C.V. Starr Community Center
300 South Lincoln Street
Fort Bragg, CA 95437

Flynn Center Multipurpose Room
981 H Street
Crescent City, CA 95531

SAT members attending: Larry Allen, Eric Bjorkstedt, Mark Carr, Dawn Goley, Dominic Gregorio, Ron LeValley, Steven Morgan, Steve Murray, Karina Nielsen, Astrid Scholz, Craig Strong, and Steve Wertz.

SAT members absent: Chris Costello, Kevin Fleming, Steve Gaines, David Hankin, John Largier, Phillip Levin, Pete Raimondi, Steven Rumrill, and Will White.

Meeting Objectives

- Receive updates on the MLPA North Coast Study Region (NCSR) marine protected area (MPA) planning process
- Review and potentially approve SAT responses to science questions
- Review and potentially approve new proposed levels of protection designations
- Review and potentially adopt the document, Methods Used to Evaluate MPA Proposals in the NCSR (“SAT Evaluation Methods Document”)
- Review and potentially adopt the SAT evaluations of the Round 3 MLPA North Coast Regional Stakeholder Group (NCRSG) MPA Proposal

The meeting agenda may be found on the MLPA website at <http://www.dfg.ca.gov/mlpa/meetings.asp>

Executive Summary

The ninth meeting of the MLPA Master Plan Science Advisory Team for the MLPA NCSR took place at the Red Lion Hotel in Eureka on October 13 and 14, 2010. The meeting focused on the evaluation results of the NCRSG MPA Proposal developed during Round 3 of the NCSR MPA planning process. The SAT voted to approve all evaluation results, the draft responses to science questions, and additions to the water quality chapter of the SAT Evaluation Methods Document. Additionally, the SAT reviewed existing and new potential levels of protection (LOPs) and voted to approve a number of new LOPs (see summary below). The evaluation results will be presented to the MLPA Blue Ribbon Task Force (BRTF) during its October 25-26, 2010 meeting in Fortuna.

Meeting Summary

Welcome, Introductions and Review of Agenda

On October 13 and 14, 2010, the ninth meeting of the MLPA Master Plan Science Advisory Team (SAT) for the MLPA North Coast Study Region (NCSR) was held in Eureka.

I. MLPA Initiative North Coast Process Updates

A. North coast planning progress

Ken Wiseman recognized the accomplishment of the NCRSG in developing one MPA proposal for the study region. The NCRSG was the first regional stakeholder group to develop a single final Round 3 MPA proposal to be forwarded to the BRTF. Ken relayed that the MLPA Blue Ribbon Task Force (BRTF) requested that the SAT comment on and discuss the proposal as much as possible during the meeting to assist the BRTF in their decision making process.

B. SAT Tribal Work Group

Satie Airamé gave an update on the SAT tribal work group. The work group has been working with staff on outreach and soliciting feedback from north coast tribes and tribal communities on the Round 3 NCRSG MPA Proposal. Staff also worked to identify a list of species and gear types that the NCRSG could use in their consideration of tribal uses. The list includes only species and gear types that are currently legally allowed in the marine realm. Additionally, the NCRSG approved a motion that says tribal rights should be respected.

II. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

C. Review and discuss new proposed LOPs

Mark Carr introduced proposed LOPs for a number of new recreational uses. After extensive discussion, the SAT voted to approve the new LOPs as follows:

High: Other pelagic finfish (any method in waters >50m); pelagic finfish (spear); Pacific lamprey (H&L, hand, spear, bow and arrow, dip net); eulachon (dip net); non-living shells (hand).

Moderate-High:	Other pelagic finfish (troll in waters <50m); sharks, skates, and rays (spear, harpoon, bow and arrow in non-estuarine waters); trout except steelhead rainbow trout (H&L)
Moderate:	Sharks, skates, and rays (H&L in non-estuarine waters); flounders, soles, turbot, and sanddabs (H&L); other pelagic finfish (H&L in waters <50m); white sturgeon (H&L); <i>Porphyra</i> spp. (Nori, Laver) (hand); <i>Ulva</i> spp. (Sea Lettuce) (hand)
Moderate-Low:	Other sculpins, California moray eels, wolf eels, and monkeyface prickleback (H&L, spear, trap, hand, bow and arrow); shiner surfperch (H&L, dip net, cast net); unspecified finfish (H&L, spear); sharks, skates, and rays (H&L, spear, harpoon, bow and arrow in estuarine waters); limpets (hand); turban snails (hand); octopus (H&L, hand); crabs (traps, hoop net, hand); <i>Chondrocanthus/Gigartina exasperata</i> (Turkish Towel) (hand); <i>Mastocarpus</i> spp. (Mendocino Grapestone) (hand)
Low:	Native oysters (hand); unspecified shrimps (hand); unspecified marine invertebrates (hand); unspecified marine algae (hand)

D. Review and discuss the SAT evaluation methods

Dominic Gregorio presented additions to the water quality chapter of the SAT Evaluation Methods Document. The SAT had indicated that information about dredge spoils should be incorporated into the document, and the work group had drafted text to address the topic. The SAT voted to approve the additions.

III. Science Questions

E. Review and discuss SAT responses to science questions

Seth Miller presented the draft responses to science questions. The draft responses had already been presented to the NCRSG at its August meeting, but had not yet been approved by the full SAT. The SAT voted to approve the responses, pending some minor edits.

IV. SAT Evaluations of the Round 3 North Coast Regional Stakeholder Group MPA Proposal

F. Overview of round 3 north coast regional stakeholder group MPA proposal

- 1) Dominique Monié presented an overview of the MPA proposal under review by the SAT. The proposal has 17 MPAs including six state marine reserves (SMRs). Additionally, the NCRSG chose to recommend seven special closures to accompany the MPA proposal. Dominique also reminded the SAT of the NCRSG motion that traditional tribal uses should be respected. For the SAT evaluations of habitat replication and representation, MPA size and spacing, marine birds and mammals, commercial and recreational fishery impacts, and bioeconomic modeling, the SAT conducted two analyses:
 - a. **SAT standard evaluation**, which only considers individual MPAs or MPA “clusters” (adjacent MPAs at or above a given LOP) that are a minimum size and at or above moderate-high LOP; and

- b. **SAT supplemental evaluation**, requested by the BRTF during Round 2 deliberations, which considers both MPAs at or above moderate-high LOP and MPAs below moderate-high protection. MPAs below moderate-high LOP were only evaluated if the only proposed uses that reduced the LOP below moderate-high were those intended to accommodate tribal uses.

G. Review and discuss the marine birds and marine mammals evaluation results

Ron LeValley and Dawn Goley presented the marine birds and marine mammals evaluation results. Overall, special closures play a key role in the overall protection of marine birds and marine mammals, while the MPA proposal provides only a small amount of protection. The special closures do a good job of protecting Stellar's sea lion rookeries but do a poor job of protecting harbor seal rookeries. The special closures also do a good job of protecting a wide variety of breeding bird colonies, particularly at Castle Rock, the second-largest colony in California. The SAT voted to approve the evaluation results.

H. Review and discuss water quality evaluation results

Dominic Gregorio presented the water quality evaluation results. The proposal did very well avoiding areas of water quality concern and co-locating MPAs with areas of special biological significance. Since most MPAs were located far from harbors in the study region, there was a decreased likelihood of co-location with areas of water quality concern. The SAT voted to approve the evaluation results.

I. Review and discuss the potential commercial and recreational fishery impacts evaluation results

Astrid Scholz presented the potential commercial and recreational fishery impacts evaluation results. There is a potential impact of approximately 3% across commercial fisheries, though some fisheries could have higher impacts. The potential impacts for the CPFV fleet are from 4.7% for the standard evaluation to 5.5% for the supplementary evaluation. The SAT voted to approve the evaluation results.

J. Review and discuss the habitat representation and habitat replication evaluation results

Karina Nielsen presented the habitat representation and habitat replication evaluation results. In the standard evaluation (at or above moderate-high protection), the proportion of the study region area in the proposal is 5.9%, and all key habitats except tidal flats and mapped eelgrass are represented to some extent (ranging from 1-36% of available). Less than 10% of all nearshore rocky and soft bottom habitats, and 3 of 4 estuarine habitats, are represented in the standard evaluation; however the deeper soft (7-20%) and rocky habitats (21-35%) are relatively better represented. At least 3-5% of additional available habitat for nearshore rocky habitats, 5-9% of soft bottom habitats, and a relatively smaller proportion of estuarine habitats is included in MPAs in the supplemental evaluation. There is at least one replicate included in the standard evaluation for each open coast habitat, and for most habitats, at least 3-5 replicates already exist elsewhere in the biogeographic region. Six of the 12 key habitats have at least one replicate in both the northern and southern bioregions of the NCSR for the standard evaluation and 10 of 12 key habitats have at least one replicate in both the northern and southern bioregions for the supplemental evaluation. However, seven habitats are not

replicated in the northern bioregion for the standard evaluation (beaches, rock 0-30m, kelp, and all four estuarine habitats), and two habitats are not replicated in the northern bioregion for the supplemental evaluation (rock 0-30m and kelp). The SAT voted to approve the evaluation results.

K. Review and discuss the MPA size and MPA spacing evaluation results

Mark Carr presented the MPA size and MPA spacing evaluation results. In the standard evaluation, the proposal includes six MPA clusters that are above minimum size and none of the MPA clusters meet the preferred size guidelines. In the supplemental evaluation, the proposal includes eight MPA clusters that are above minimum size and two MPA clusters that meet the preferred size guidelines. Regarding spacing, the SAT minimum spacing guidelines cannot be met for three open coast habitats (kelp, rock 100-3000m, and soft 100-3000m). In the standard evaluation, the proposal achieves or approaches guidelines or SAT minimum spacing for rock 30-100m, rock 100-3000m, and soft 30-100m habitats; however all the remaining key habitats have at least one spacing gap that exceeds SAT minimum spacing guidelines or minimum possible spacing. In the supplemental evaluation, five habitats achieve SAT minimum spacing guidelines or approach the minimum possible spacing (rocky shores, rock 30-100m, rock 100-3000m, soft 30-100m, and soft 100-3000m); however, the seven remaining key habitats have at least one spacing gap. Staff will add some information to the slide showing the availability of habitat replicates in the NCSR to allow the BRTF to see where MPAs are located. The SAT voted to approve the evaluation results.

L. Review and discuss the bioeconomic model evaluation results

Eric Bjorkstedt presented the bioeconomic model evaluation results, which compared the NCRSG proposal with Proposal 0, the no action alternative. The NCRSG proposal had highest economic value under unsuccessful management, while Proposal 0 had the highest economic value under MSY-type or conservative management. The model also revealed that Sea Lion Gulch SMR and Ten Mile SMR are particularly important parts of the array. The SAT voted to approve the evaluation results.

V. Wrap-up and Next Steps

M. Other items

Mike Prall confirmed the SAT members attending the BRTF meeting on October 25, 2010, including Mark Carr, Eric Bjorkstedt, Ron LeValley, Dominic Gregorio, and Dawn Goley. Charles Steinbeck from Ecotrust will also be present. The next SAT meeting will be held via teleconference and webinar on November 17, 2010.

Public Comment

Members of the public commented on a wide variety of issues. Since the SAT took action on most agenda items, there were ample periods for public comment during the meeting. Comments were also heard from remote node in Fort Bragg. Most comments focused on specific aspects of each evaluation, though there were also more general comments about the MLPA process and questions regarding the interaction of proposed MPAs and other ocean topics such as proposed military testing and wave energy projects.

Briefing Documents

- C.1: PowerPoint Presentation: Levels of Protection in the MLPA North Coast Study Region
- D.1: Draft Methods Used to Evaluate Draft MPA Proposals in the North Coast Study Region
Section 10.0 Water and Sediment Quality (Revised August 24, 2010)
- E.1: Draft SAT Responses to Science Questions
- F.1: PowerPoint Presentation: Overview of the NCRSG Round 3 MPA Proposal
- F.2: Overview Maps of the NCRSG Round 3 MPA Proposal
- F.3: PowerPoint Presentation: of the NCRSG Round 3 special closures
- F.4: Round 3: Description of MPAs in the Round 3 NCRSG MPA Proposal
- F.5: Round 3: Habitat Calculations for the NCRSG MPA Proposal
- F.6: Round 3 NCRSG Special Closures Recommendation: Basic Information
- F.7: Round 3 NCRSG Special Closures Recommendation
- G.1: PowerPoint Presentation: Draft Marine Birds and Marine Mammals Evaluation of the
Round 3 MLPA NCRSG MPA Proposal
- G.2: SAT Evaluation of the Round 3 MLPA NCRSG MPA Proposal: Benefits to Marine
Mammals
- G.3: SAT Evaluation of the Round 3 MLPA NCRSG MPA Proposal: Benefits to Marine Birds
- H.1: PowerPoint Presentation: Water and Sediment Quality Evaluation of the Round 3 MLPA
NCRSG MPA Proposal
- H.2: SAT Evaluation of the Round 3 MLPA NCRSG MPA Proposal: Water and Sediment
Quality
- I.1: PowerPoint Presentation: Potential Commercial and Recreational Fishery Impacts of
the Round 3 MLPA NCRSG MPA Proposal
- I.2: SAT Evaluation of the Round 3 MLPA NCRSG MPA Proposal: Potential Commercial
and Recreational Fishery Impacts
- J.1: PowerPoint Presentation: Habitat Representation and Habitat Replication Evaluations of
the Round 3 MLPA NCRSG MPA Proposal
- K.1: PowerPoint Presentation: MPA Size and MPA Spacing Evaluation of the Round 3
MLPA NCRSG MPA Proposal
- K.2: SAT Evaluation of the Round 3 MLPA NCRSG MPA Proposal: Habitat Representation,
Habitat Replication, MPA Size, and MPA Spacing Analyses
- L.1: PowerPoint Presentation: Spatial Bioeconomic Model Evaluation of the Round 3 MLPA
NCRSG MPA Proposal
- L.2: SAT Evaluation of the Round 3 MLPA NCRSG MPA Proposal: Bioeconomic Model
Analysis
- M.1: Summary of the July 28, 2010 Meeting of the MLPA Master Plan Science Advisory
Team

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised November 16, 2010)

Wednesday, November 17, 2010 at 9:00 AM

via teleconference* and online meeting*

Toll-free conference call
Dial-in number: (877) 615-4337
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For teleconference and webinar access with MLPA staff, join a public participation location:

Humboldt Bay Aquatic Center*
921 Waterfront Drive, Room 211
Eureka, CA 95501

California Department of Fish and Game*
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

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Public Comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 11:30 a.m.** Time allotted for public comment is determined by the number of requests and can range from one to three minutes per comment; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, MLPA Regional Stakeholder Group, or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting materials will not be provided in print but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive MLPA Initiative process updates*
- *Review and potentially approve responses to science questions*
- *Review and potentially approve new proposed levels of protection*
- *Review and potentially approve the document Draft Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region*
- *Receive overview of motions adopted by the MLPA Blue Ribbon Task Force at its October 25-26, 2010 meeting*

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Meeting Agenda – Wednesday, November 17, 2010

Note: General public comment will be taken at approximately 11:30 a.m. At the discretion of the co-chairs, agenda items may be heard in any order on the day of the meeting.

Welcome, Introductions, and Review of Agenda

I. Updates

II. Science Questions

A. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT responses to science questions

BRIEFING DOCUMENT A.1: Draft SAT Responses to Science Questions

III. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

B. Review and Discuss New Proposed Levels of Protection

Potential SAT Action: Approve any new or revised levels of protection

BRIEFING DOCUMENT B.1: PowerPoint Presentation: Levels of Protection in the MLPA North Coast Study Region

C. Review and Discuss Methods Used to Evaluate MPA Proposals in MLPA North Coast Study Region

Potential SAT Action: Approve additions to the SAT evaluation methods document

Potential SAT Action: Approve the full set of compiled chapters, already approved individually by the SAT, as the Methods Used to Evaluate MPA Proposal in the MLPA North Coast Study Region

BRIEFING DOCUMENT C.1: Draft Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region
(Revised July 27, 2010)

IV. Motions Adopted by the MLPA Blue Ribbon Task Force on October 26, 2010 Regarding Recommendations for the MLPA North Coast Study Region

D. Overview of the North Coast Enhanced Compliance Alternative MPA Proposal

BRIEFING DOCUMENT D.1: PowerPoint Presentation: Overview of the North Coast Enhanced Compliance Alternative MPA Proposal

BRIEFING DOCUMENT D.2: Overview maps

BRIEFING DOCUMENT D.3: Summary of Actions Resulting from Motions Adopted by the MLPA Blue Ribbon Task Force for the North Coast Study Region

V. Wrap-up and Next Steps

E. Other Items

Adjourn

California Marine Life Protection Act Initiative
Master Plan Science Advisory Team
Draft Meeting Agenda
(revised January 11, 2011)

Thursday, January 13, 2011 at 9:00 AM

via teleconference* and online meeting*

Toll-free conference call
Dial-in number: (877) 615-4337
Passcode: 6528 179#

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For teleconference and webinar access with MLPA staff, join a public participation location:

C.V. Starr Community Center*
300 South Lincoln Street
Fort Bragg, CA 95437

California Department of Fish and Game*
4665 Lampson Avenue, Suite C
Los Alamitos, CA 90720

Humboldt Bay Aquatic Center*
921 Waterfront Drive, Room 211
Eureka, CA 95501

Flynn Center*
981 H Street, Multi-purpose Room
Crescent City, CA 95531

Public Participation: Members of the public are invited to attend the meeting in person via teleconference/webinar or at one of the above locations or may view and listen to the meeting via simultaneous webcasting on the Internet. Video and audio archives of the meeting may be accessed via the Internet approximately two days after the meeting. Please visit the Marine Life Protection Act (MLPA) website at http://www.dfg.ca.gov/mlpa/meetings_nc.asp for more information.

Public Comment: The public will be invited to provide general comment on subjects related to the work of the MLPA Master Plan Science Advisory Team (SAT) **at approximately 9:20 a.m.** Time allotted for public comment is determined by the number of requests and can range from one to three minutes per comment; submitting written comments that can be easily summarized in one to two minutes is encouraged. Note that the public comment period is for comments specific to the SAT; comments related to the MLPA Blue Ribbon Task Force, MLPA Regional Stakeholder Group, or other MLPA Initiative activities should be directed to those bodies or MLPA staff.

Meeting materials will not be provided in print but will be posted to the MLPA website as soon as they are available. This agenda may be found on the MLPA website at http://www.dfg.ca.gov/mlpa/meetings_n.asp

Meeting Objectives

- *Receive MLPA Initiative process updates*
- *Review and potentially approve responses to science questions*
- *Review and potentially approve any new or revised levels of protection*
- *Review and potentially approve Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region*
- *Review and potentially adopt SAT evaluations of marine protected area (MPA) proposals forwarded by the MLPA Blue Ribbon Task Force*

** This facility is accessible to persons with disabilities. To request reasonable accommodations for a disability, please contact California Relay Service (at least two days prior to the meeting) at 800.735.2929 (TTY) or 800.735.2922 (voice) or contact the California Marine Life Protection Act Initiative at 916.654.1885.*

Meeting Agenda – Thursday, January 13, 2011

Note: General public comment will be taken at approximately 9:20 a.m. and the SAT will break for lunch at approximately 12:30 p.m. At the discretion of the co-chairs, agenda items may be heard in any order on the day of the meeting.

Welcome, Agenda Review and Brief Introductions

I. Updates

II. Science Questions

A. Review and Discuss SAT Responses to Science Questions

Potential SAT Action: Approve SAT responses to science questions

BRIEFING DOCUMENT A.1: Draft Responses to Science Questions Posed during MLPA Public Meetings and via Email in October 2010 (Revised November 23, 2010)

III. MPA Design Guidelines and Evaluation Methods for the MLPA North Coast Study Region

B. Review and Discuss New Proposed Levels of Protection

Potential SAT Action: Approve any new or revised levels of protection

BRIEFING DOCUMENT B.1: PowerPoint Presentation: Levels of Protection in the MLPA North Coast Study Region

C. Review and Discuss *Methods Used to Evaluate MPA Proposals in MLPA North Coast Study Region*

Potential SAT Action: Approve the SAT methods used to evaluate MPA proposals in the MLPA north coast study region

BRIEFING DOCUMENT C.1: Draft Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region (Draft of December 24, 2010)

BRIEFING DOCUMENT C.2: PowerPoint Presentation: Draft Methods Used to Evaluate MPA Proposals in the MLPA North Coast Study Region

IV. SAT Evaluations of MPA Proposals Forwarded by the BRTF

D. Overview of MPA Proposals Forwarded by the BRTF

BRIEFING DOCUMENT D.1: PowerPoint Presentation: Overview of MPA Proposals forwarded by the BRTF

E. Review and Discuss the Habitat Representation, Habitat Replication, MPA Size, and MPA Spacing Evaluation Results

Mark Carr

Potential SAT Action: Approve the summary of habitat representation, habitat replication, MPA size, and MPA spacing evaluation results

BRIEFING DOCUMENT E.1: PowerPoint Presentation: Habitat Representation, Habitat Replication, MPA Size, and MPA Spacing Evaluations of Alternative MPA Proposals Forwarded by the BRTF

BRIEFING DOCUMENT E.2: Draft Evaluation of BRTF-Recommended MPA Proposals for the North Coast Study Region: Habitat Representation, Habitat Replication, MPA Size and MPA Spacing Analyses (January 8, 2011)

F. Review and Discuss the Bioeconomic Model Evaluation Results

Eric Bjorkstedt

Potential SAT Action: *Approve the summary of bioeconomic model evaluation results*

BRIEFING DOCUMENT F.1: PowerPoint Presentation: Spatial Bioeconomic Model Evaluation of Blue Ribbon Task Force Recommendations for the North Coast Study Region

BRIEFING DOCUMENT F.2: Bioeconomic Model Evaluations of Blue Ribbon Task Force Recommendations for the North Coast Study Region (January 10, 2011 DRAFT)

G. Review and Discuss the Potential Commercial and Recreational Fisheries Impacts Evaluation Results

Potential SAT Action: *Approve the summary of potential commercial and recreational fisheries impacts evaluation results*

BRIEFING DOCUMENT G.1: PowerPoint Presentation: Potential Commercial and Recreational Fishery Impacts of Alternative MPA Proposals Forwarded by the BRTF

BRIEFING DOCUMENT G.2: Summary of Potential Impacts of the North Coast Enhanced Compliance Alternative and Revised Round 3 North Coast Regional Stakeholder Group Marine Protected Area Proposals on Commercial and Recreational Fisheries in the North Coast Study Region (Draft, January 6, 2011)

H. Other Considerations

BRIEFING DOCUMENT H.1: PowerPoint Presentation: Other SAT Considerations: Birds and Mammals, and Water and Sediment Quality

BRIEFING DOCUMENT H.2: Summary of SAT Water and Sediment Quality Evaluations for the MLPA Blue Ribbon Task Force Options Proposed during the October 25-26, 2010 Meetings (Revised December 13, 2010)

BRIEFING DOCUMENT H.3: Summary of SAT Marine Bird and Mammal Evaluations for the MLPA Blue Ribbon Task Force Recommendations (January 6, 2011)

Wrap-up and Next Steps

I. Other Items

BRIEFING DOCUMENT I.1: Summary of the November 17, 2010 Meeting of the MLPA Master Plan Science Advisory Team (revised December 8, 2010)

Adjourn