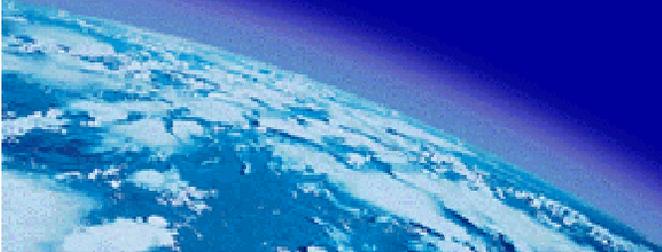


Presentation at the Third Plenary Meeting of the Advisory
Committee on Acoustic Impacts on Marine Mammals
27-29 July 2004
San Francisco, California

***This presentation is the sole product of the author(s)
and does not reflect the view of the Marine Mammal
Commission or the Advisory Committee on Acoustic
Impacts on Marine Mammals.***



Mitigation & Management Subcommittee Interim Status Report

Subcommittee Representative
J.P. Ray



Format for Discussion

- **High level review of Subcommittee discussions and progress to date**
- **Discussion and dialogue with full Subcommittee**
 - **Recommendations for improvement**

Subcommittee Members

- Jay Barlow -- NOAA
- Colleen Corrigan – USFWS
- David Cottingham -- MMC
- Phil Fontana -- Veritas
- Erin Heskett – IFAW
- Michael Jasny – NRDC
- Kathy Metcalf – Chamber of Shipping of America
- Mike Purdy – Lamont Doherty
- Jim Ray – Shell Global Solutions US
- Frank Stone – U.S. Navy
- Bruce Tackett – ExxonMobil
- Sarah Wan – California Coastal Commission
- Lindy Weilgart – Dalhousie University
- Donna Wieting – NOAA Fisheries
- Judy Wilson -- MMS

Facilitator and staff: Suzanne Orenstein, Jeannie Drevenak, Erin Vos, Linda Petitpas

Proposed Vision for Final Product

- Could be used as chapter in final report
- Aimed at general audience of managers, decision – makers, and interest groups. Geared towards the lay reader.
- Draft available at November meeting
- Will:
 - Consider the benefits, limits, and costs of various strategies
- Will not:
 - Recommend or dismiss any particular options for particular activities (one size doesn't fit all)

Table of Mitigation Tools

- Research
- Seasonal restrictions
- Spatial/geographic restrictions
- Temporal restrictions
- Aerial surveys
- Shipboard surveys
- Observers
- Sound attenuation devices
- Safety zones
- Modeled or verified safety zone
- Ramp-up/dry fire/acoustic det.
- Engineered/mechanical modif.
- Passive acoustic monitoring
- Active acoustic monitoring
- Shut down/stand down

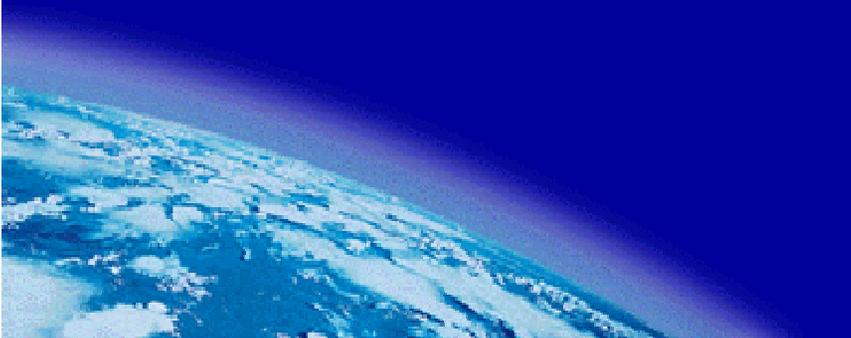


Table of Management & Mitigation Tools

(example)

	Aerial Survey	Passive Acoustic	Ramp-up	Geograph Restriction	Seasonal Restriction
Seismic		*	*	*	*
Research	*	*	*	*	*
Sonar	*	*		*	*
Vessels				*	*

Draft Report Outline

- Introduction
 - Definitions & purpose of Management & Mitigation
- Description of the requirements for management of impacts
 - Statutory basis: summarize requirements of MMPA, ESA, NEPA, OCSLA, & CZMA.....
- Sources subject to Management
 - What is the current level of M&M for different sources
 - Domestic & internationally

Draft Report Outline (cont'd)

- Components of Management System
 - Research
 - Purpose in Management System
 - Types of research relevant to Management System
 - Status & location of species (? Normal)
 - Technology development for mitigation
 - Evaluating effectiveness of proposed or actual research
 - Risk assessment
 - Purpose
 - Role in management system

Draft Report Outline (cont'd)

- Risk assessment
 - Who does it? How is it done? What we know and not know?
 - How are uncertainties identified and dealt with?
- Permitting & other regulatory processes
 - Purposes
 - Who does it/for what activities/how?
 - Listing of permitting & regulatory processes in U.S. (and international?)
 - Potential alternatives to command & control regs, including non-regulatory options

Draft Report Outline (cont'd)

- Mitigation Tools
 - List existing & potential methods and outline briefly for each:
 - Description; purpose; extent of current use
 - Potential additional applications and issues
 - Effectiveness (what do we know and not know)
 - Limitations or gaps
 - When each is most useful
 - Practicalities: costs, etc.
 - Compliance and Enforcement (including reporting)

Draft Report Outline (cont'd)

- Monitoring
 - Effectiveness of mitigation tools
 - Status of biological resources
 - Impacts
 - Compliance



- Policy Issues
 - Jurisdictional issues
 - Adaptive management
 - Risk of concern (population, individual)
 - PBR or similar approach
- Potential Recommendations

Schedule and Work Plan

Discuss outline w/ FAC	July 29
SC meets to review FAC comments	July 30 (AM to noon)
Hire staff to research, compile, write	ASAP; update at 7/29 meeting
SC meets to review initial draft	September 14
SC meets to review draft; consider incorporation of Int. Conf.	October 12
SC meets to finalize Draft Final	November 4
Submit to FAC	By November 15
Discuss full report with FAC	Nov. 30 – Dec. 2

Open Dialogue With Subcommittee Members

