VEssel Strikes And Acoustic Impacts

Gulf of the Farallones and Cordell Bank NMS


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Co-Chairs
Lance Morgan, MCBI; CBNMS SAC
Jackie Dragon, Greenpeace; GFNMS SAC alternate

Working Group Members
Michael Jasny, Natural Resources Defense Council
Carol Keiper, Oikonos
John Calambokidis, Cascadia Research
Frances Gulland, The Marine Mammal Center
John Berge, Pacific Marine Shipping Association
Kathy Metcalf, Chamber of Shipping of America
Captain Bill Mahoney, APL Maritime, Ltd.
Technical Experts

CDR Kiley Ross, USCG Inspections and Investigations
Branch Chief
Elizabeth Petras, NMFS Southwest Fisheries Science Center
Monica DeAngelis, NMFS SWFSC
Leila Hatch, Stellwagen Bank National Marine Sanctuary
Chris Miller, Naval Postgraduate School
Brandon Southall, Southall Environmental Associates, Inc.
Megan McKenna, Marine Mammal Commission
Ingrid Overgard, International Ocean Noise Coalition
John Hildebrand, UCSD, Scripps
Jaime Jahncke, PRBO Conservation Science
Management Recommendations

• Modification to shipping lanes
Management Recommendations

Dynamic Management Areas

- Cordell Bank Buoy
- Existing TSS
- Seaward Extent of State Waters
- National Marine Sanctuary
- 0 - 30m Depth
- 30 - 100m
- 100 - 200m
- 200 - 3000m
- >3000m

Contour Interval 100 Meters
Not Intended for Navigation
Management Recommendations

- Real-time monitoring
- Observations from ships
- Reporting and compiling sightings
Management Recommendations

• National Marine Sanctuaries Act consultation

• Incentives for ship quieting
• Tiered Approach
• Passive Acoustic Monitoring
• Archival
• Multiple Objectives
Ships Strike Research and Monitoring Recommendations

• Continue compilation and analysis of historical and new sighting data
• Compile ship traffic data
• Evaluate the degree to which documented ship strikes reflect true mortalities of whales and consider the relative risk of ship strikes to different species.
• Continue monitoring whale population trends
• Ensure that stranded whales are examined to determine cause of death
• Gather data on behavior of whales in and around shipping lanes
• Examine how whales react to nearby ships to determine vulnerability to ship strike, and how changes in noise levels from ships or speed changes alter vulnerability.
Education and Outreach Recommendations

• Prepare a strategic plan for addressing education and outreach
• Prioritize commercial maritime industry for education and outreach materials
• All elements of the strategic plan should be clearly defined and include expected and measured outputs (outcomes) and be subdivided into those with short-, medium- and long-term implementation schedules.
• ONMS West Coast Region and NMFS should develop a regional education and outreach program to leverage scarce resources, avoid duplication of efforts and recognize that commercial vessels often call/transit near all NMS on many voyages.
Thank You