

California's Response to Marine Life Entanglement

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Presented to:

Entanglement Science Workshop

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Mandates Driving California Management

- Federal ESA & MMPA
- CESA (Leatherback Sea Turtle-Candidate)
- Fish and Game Code 8276.1
- Marine Life Management Act
- OPC Vision Zero Mortality Goal Policy



✓ Dungeness Crab Fishing Gear Working Group

 ✓ Piloted Risk Assessment and Mitigation Program (RAMP)

✓ Limited Surface Gear for Commercial Fishery

✓ Director's Authority (Risk Assessments)





Entanglement Risk Reduction Measures

✓ Fixed Trap Gear Marking Program

✓ Lost/Abandoned Gear Retrieval Program

✓ Draft Conservation Plan/ Incidental Take Permit

✓ Recreational Crab Risk Reduction Measures

✓ Gear and Data Innovation

RAMP

- Risk Assessment Process
- Entanglement and Marine Life Concentrations Triggers
- Zonal Management Approach
- Management Actions
 - Advisory
 - Season Delay
 - Zone Closure
 - Gear/Depth Reduction
 - Alternative Gear



Science Needs to Support Management

- Science is integral to the CDFW RAMP program
 - Species distribution surveys
 - Distribution and habitat modeling
 - Understanding the "how" of entanglement
 - Understanding environmental influences
 - Socioeconomic dynamics of management
- Priorities
 - Science to support RAMP and RAMP to support science
 - Refining RAMP framework and inform ITP process
 - Reducing entanglements in state-managed fisheries



Whale Safe Fisheries

www.wildlife.ca.gov/Conservation/Marine/Whale-Safe-

Fisheries