

The West Coast Ocean Acidification & Hypoxia Science Panel

Washington Marine Resources Advisory Council
March 31, 2015

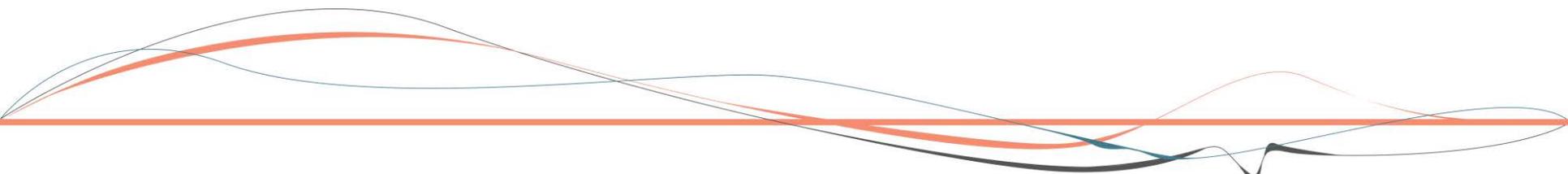


Skyli McAfee

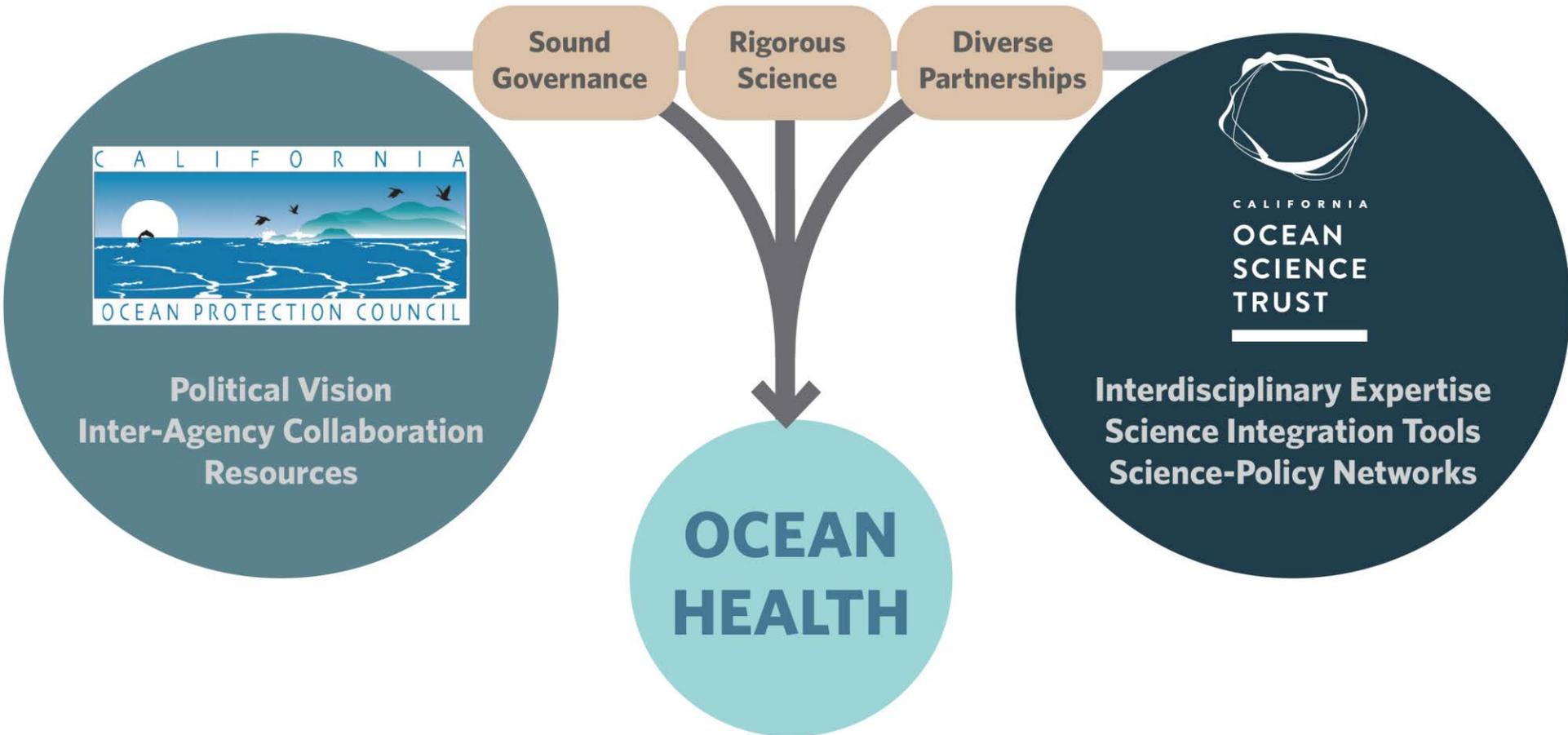
Executive Director, Ocean Science Trust

Ocean Protection Council Science Advisor

West Coast OAH Science Panel Convener



CA's Ocean Science-Policy Landscape



The West Coast Ocean Acidification & Hypoxia Science Panel



Francis & Ali as co-chairs



Ali Boehm (Chair)
Stanford



Jack Barth
OSU



Francis Chan
OSU



Elizabeth Chornesky
Consultant



Andrew Dickson
SIO



Richard Feely
NOAA/PMEL



Burke Hales
OSU



Tessa Hill
UC Davis



Gretchen Hofmann
UC Santa Barbara



Terrie Klinger
University of Washington



Debby Janson
IOS, EBC



John Largier
UC Davis



Jane Newton
University of Washington



Thomas Pedersen
PICS, EBC



George Somero
Stanford University



Martha Tutula
SCCWRP



Waldo Wakefield
NOAA/NMFS, OSU



George Waldbusser
OSU



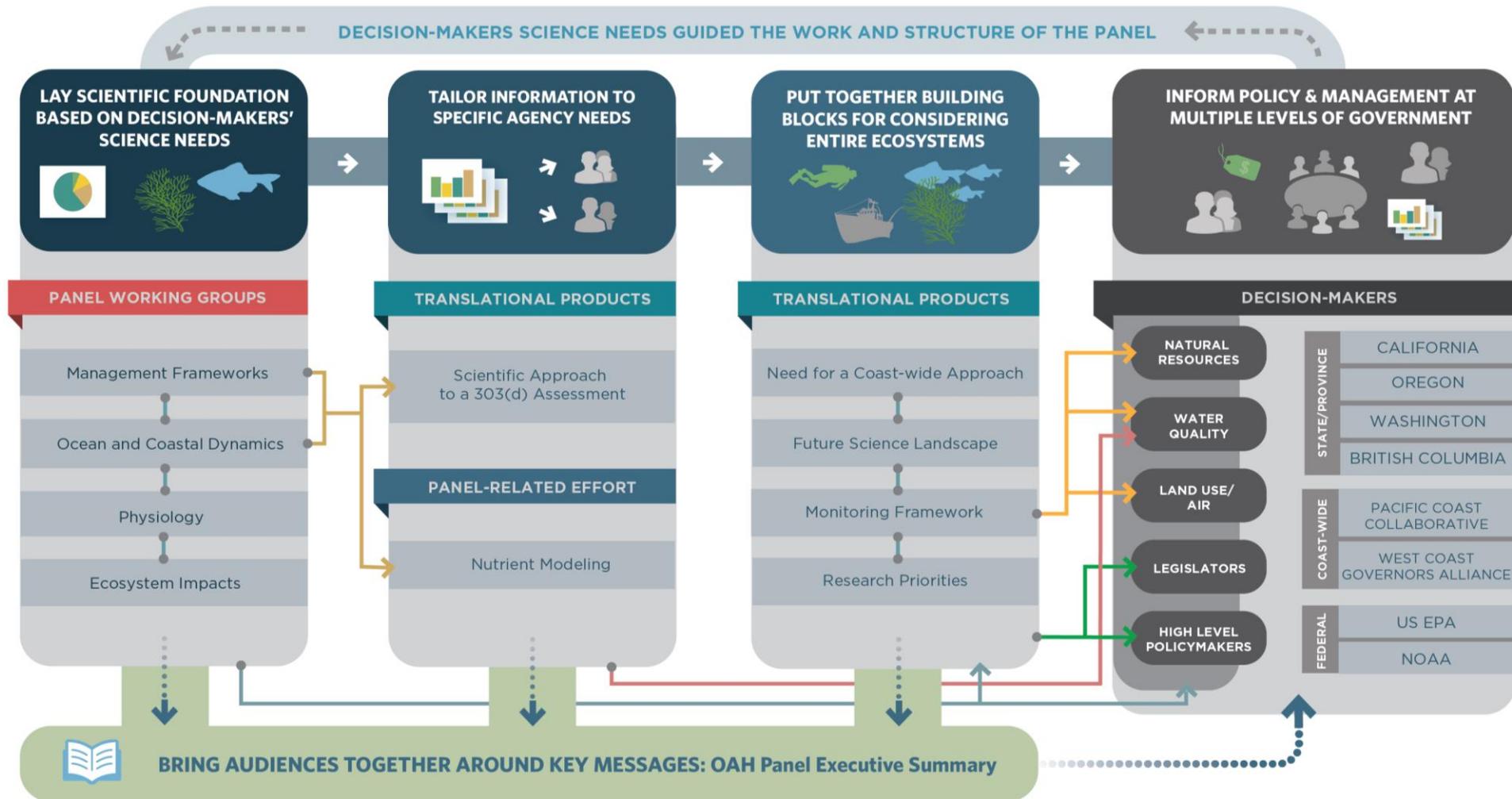
Steve Weisberg
SCCWRP



Liz Whiteman
CalDST



OAH Panel: From Science to Decision-Making



Evolution of the Issue in California

SINGLE STATE EFFORT



Ocean Protection Council
Ocean Science Trust

OPPORTUNITY TO INFORM:

WATER QUALITY

Evolution of the Issue in California

SINGLE STATE EFFORT



**ALIGNING EFFORTS
ACROSS BOUNDARIES**



**ENGAGING FEDERAL
PARTNERS**

Ocean Protection Council
Ocean Science Trust



WA Blue Ribbon Panel - MRAC
Pacific Coast Collaborative
West Coast Governor's Alliance
OR Institute for Natural Resources



NOAA
US EPA
CEQ



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NATURAL RESOURCES
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LAND USE/AIR QUALITY

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WATER QUALITY
NATURAL RESOURCES
LEGISLATURE
LAND USE/AIR QUALITY
HIGH LEVEL POLICY

A threat to Long Island Sound's economy

Updated March 6, 2015 8:06 AM

By LISA SUATONI

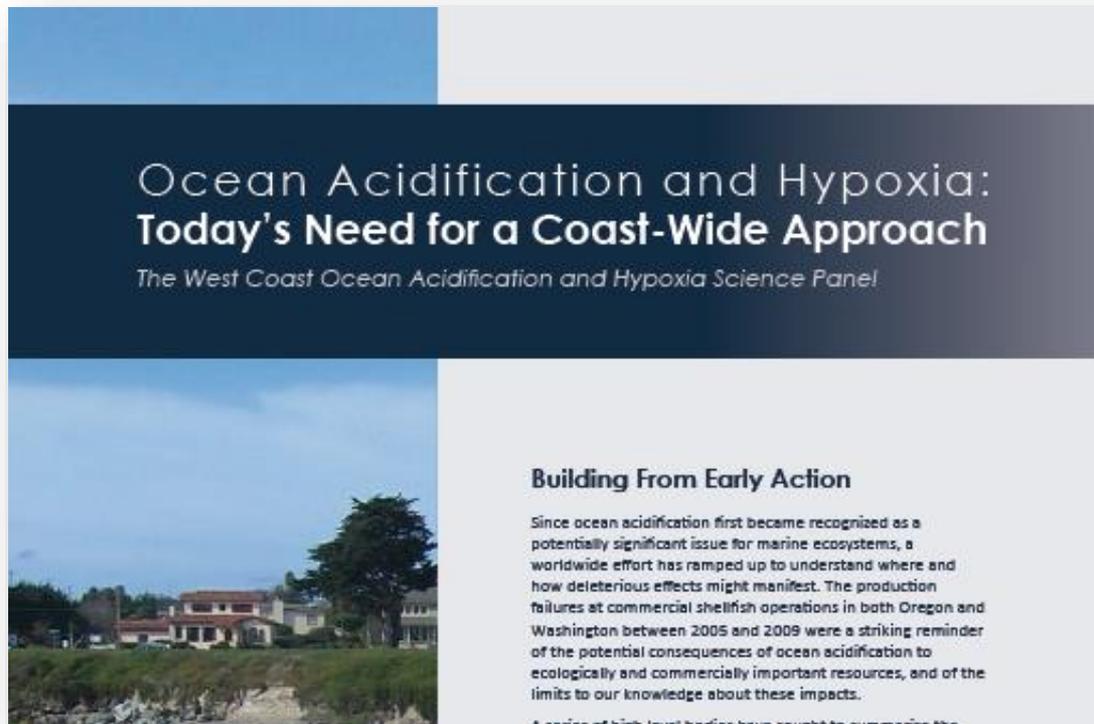


New York and Connecticut lawmakers should establish a panel to identify research and policy priorities to combat the dual impacts of ocean acidification and nitrogen pollution on the Sound, **following the lead of the West Coast Ocean Acidification and Hypoxia Science Panel.**

Emerging Scientific Findings

- 1. This is a regional intensification of a global problem that requires a coordinated regional approach**
 - Need to understand contributors - investment in modeling efforts, monitoring in service of multiple mandates
- 1. The global problem is elevated ATM CO₂. Must reduce Emissions of CO₂**
- 2. There are things you can do now**
- 3. Support resilient ecosystems**
 - Not just OA, but about changing ocean chemistry - consider with hypoxia, temperature, etc.
- 4. Accelerate the development and integration of knowledge required to improve decisions**
- 5. There is a cost to inaction**

Value of a Coast-Wide Approach: Reaching Beyond Boundaries



**Ocean Acidification and Hypoxia:
Today's Need for a Coast-Wide Approach**
The West Coast Ocean Acidification and Hypoxia Science Panel

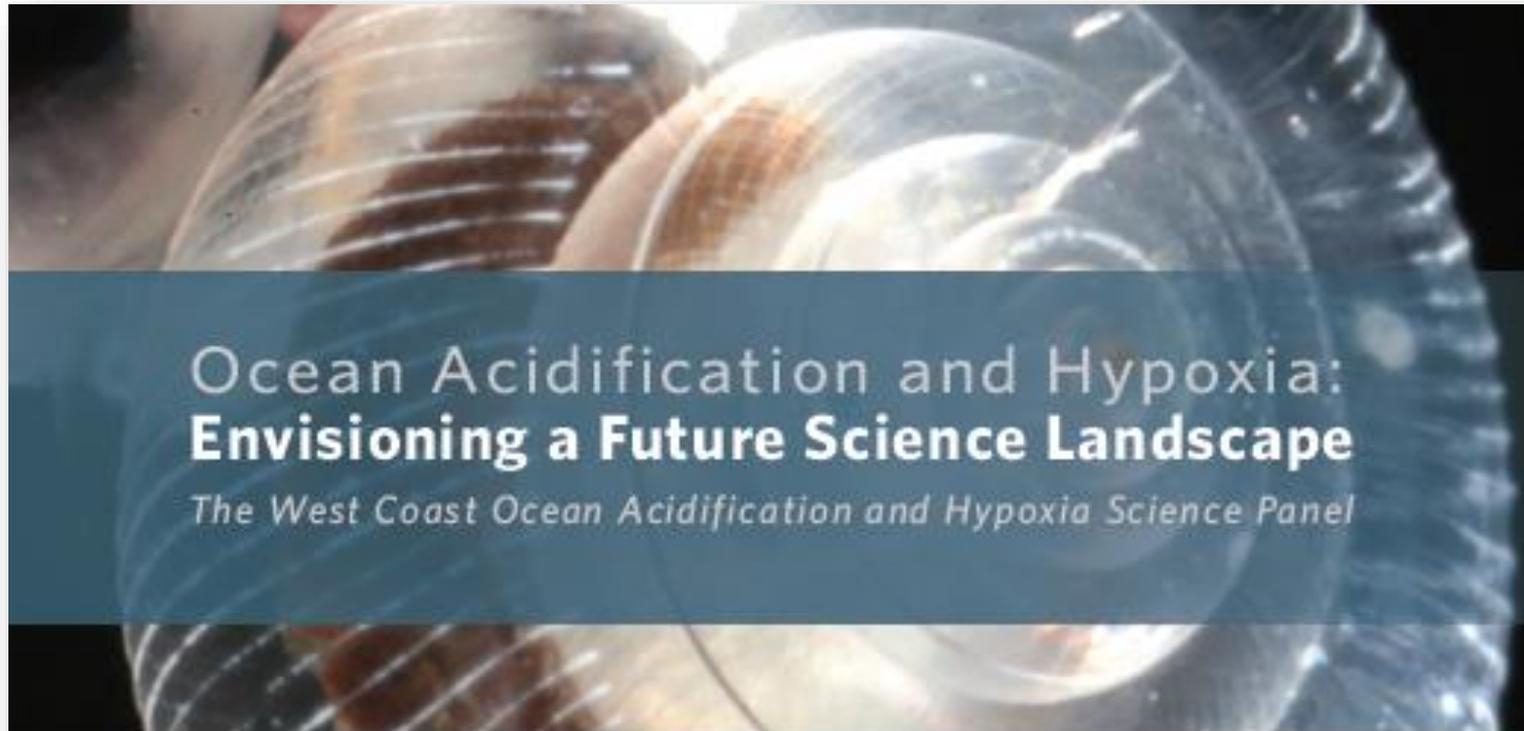
Building From Early Action

Since ocean acidification first became recognized as a potentially significant issue for marine ecosystems, a worldwide effort has ramped up to understand where and how deleterious effects might manifest. The production failures at commercial shellfish operations in both Oregon and Washington between 2005 and 2009 were a striking reminder of the potential consequences of ocean acidification to ecologically and commercially important resources, and of the limits to our knowledge about these impacts.

A series of high-level bodies have sought to summarize the



Looking Forward: Envisioning a New Path

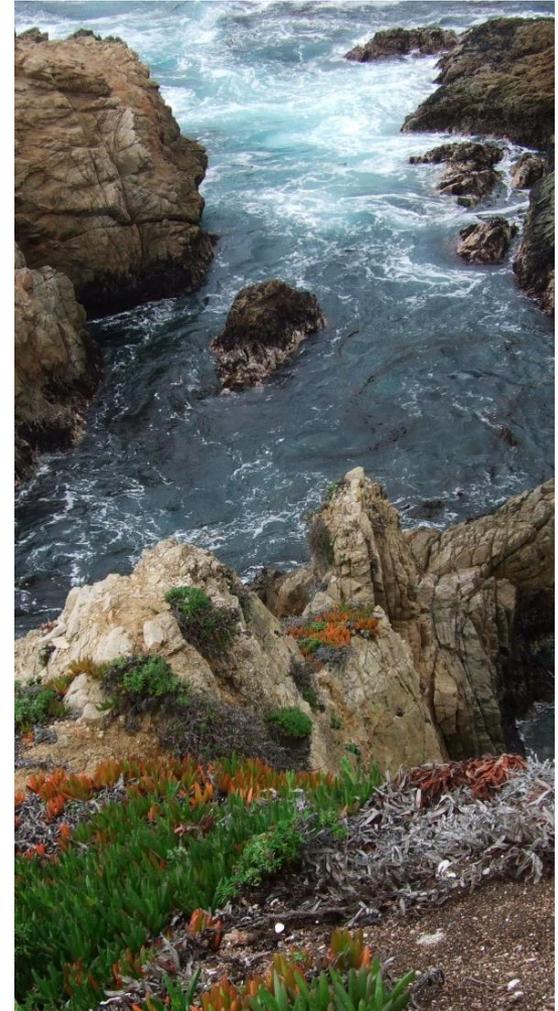


Vision

Concerns are growing at multiple levels of government about the effects of ocean acidification and increasing hypoxia events on ecosystems along the coasts of California, Oregon, Washington, and British Columbia. Thoughtful and strategic research and monitoring will be essential to improve

Using Existing Tools

- Emissions Control Goals; Cap & Trade
- Ocean health as a priority issue across agencies
- Refining the use of the Clean Water Act for these issues
- Non-point Source Pollution Permit Program, NPDES Permit Program
- Merging the goals of ASBSs with marine protected areas
- Ecosystem-based fisheries management
- IOOS
- “Smart monitoring” for adaptive learning



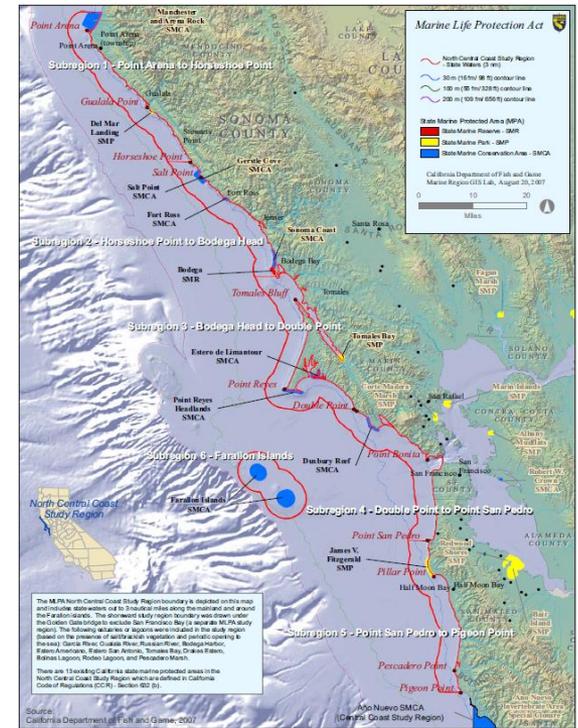
Enduring Impact Beyond the Panel



- Investing in partnerships among state bodies
 - CA Ocean Protection Council
 - WA MRAC
 - OR Advisory Council
- OR Senate Bill 22 introduced

Sharing a Vision of a Healthy Ocean

Across states, agencies, mandates and policies



www.WestCoastOAH.org

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The West Coast Ocean Acidification & Hypoxia Science Panel

A coast-wide collaboration advancing across academic and political landscapes.

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