





Item 5: Update on the Implementation of Assembly Bill 2139

Jenn Phillips and Sara Briley January 31, 2018

AB 2139 (Williams)

- Signed September 2016
- Stemmed from recommendations of West Coast OAH Panel

Directives to OPC

(subject to funding availability)

- 1. Develop an ocean acidification and hypoxia (OAH) science task force
- 2. Take actions to address OAH
- 3. Adopt recommendations for further actions at the first meeting of each year, starting 2018









1. OAH Science Task Force

Mission: The Task Force will serve as a responsive advisory body that will provide scientific guidance to the OPC in an ongoing manner to inform continued actions on ocean acidification and hypoxia in California and along the West Coast.

Task Force Members

- 1. Stephen Weisberg, Southern California Coastal Water Research Project Authority, *Co-Chair*
- 2. Francis Chan, Oregon State University, Co-Chair
- 3. Sarah Cooley, Ocean Conservancy
- 4. Jim Barry, Monterey Bay Aquarium Research Institute
- 5. Lisa Levin, Scripps Institution of Oceanography, UC San Diego
- 6. Richard Feely, NOAA Pacific Marine Environmental Laboratory
- 7. Shallin Busch, NOAA Ocean Acidification Program
- 8. Alexandria Boehm, Stanford University

















2. Take Actions to Address OAH

- 1. Develop, refine, and integrate predictive models
- 2. Ensure that criteria and standards for coastal water health address ocean acidification and hypoxia are informed by the best available science
- 3. Identify areas in CA vulnerable to ocean acidification and hypoxia
- 4. Advance joint priorities for ocean acidification and hypoxia research with diverse state, regional, national and international partners
- 5. Identify gaps between the monitoring of OAH and management needs, and the actions necessary to address these gaps



2. Take Actions to Address OAH

- 1. Develop, refine, and integrate predictive models
- 2. Ensure that criteria and standards for coastal water health address ocean acidification and hypoxia are informed by the best available science
- 3. Identify areas in CA vulnerable to ocean acidification and hypoxia
- 4. Advance joint priorities for ocean acidification and hypoxia research with diverse state, regional, national and international partners
- 5. Identify gaps between the monitoring of OAH and management needs, and the actions necessary to address these gaps



West Coast OAH Monitoring Inventory

- Vision improved OAH monitoring capacity along the West Coast through jointly building an integrated monitoring network aimed to address management needs.
- British Columbia, Alaska, Washington, Oregon, and California have inventoried their research and monitoring communities.
- ALL of the information collected is being made into digital tools and web maps for the use of natural resource managers and researchers





Monitoring Assets

0

0

Legend

California/Oregon OAH Inventory Point Asset Type

- Sample Site
- Shoreside Sensor
- Cruise Station
- Mooring
- Other



Monterey Bay Assets

0

0

Park

0

0

0

Legend

0

California/Oregon OAH Inventory Point Asset Туре

- Sample Site ٠
- Shoreside Sensor
- Cruise Station 0
- Mooring •
- Other ۲





Carbonate Complete Assets

Legend

California/Oregon OAH Inventory Point Asset Type

- Sample Site
- Shoreside Sensor
- Cruise Station
- Mooring
- Other



West Coast OAH Monitoring Inventory

Next steps

- Incorporate additional monitoring information from WA, AK, and BC
- Work with partners to host this information online
- Lead federal/state discussion to define gaps and opportunities

Outcomes of inventory will help OPC prioritize monitoring gaps and funding decisions



Monitoring OAH in MPAs

International Agreements



Alliance brings together jurisdictions to highlight ocean acidification as a threat to coastal economies and ocean ecosystems in their region, and consider solutions

 Members include: countries, states, provinces, counties, cities, Tribes and First Nations, universities, nongovernmental organizations, industry associations, businesses and other parties





3. Recommendations for further actions

- Action item today to approve funding for California's Ocean Acidification Action Plan
- 2. Come back at future meetings (starting with April 2018) with additional actions and funding requests
- 3. Bolster support to state and federal agencies to assist in how they consider ocean acidification in their management and regulatory practices









Thank you!

@OPC_California
www.opc.ca.gov