

Oregon's Coordinating Council on Ocean Acidification and Hypoxia

Testimony on SB260-1

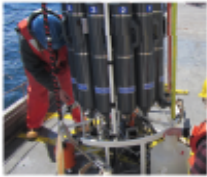


*Dr. Jack Barth, Co-Chair
Oregon State University*



*Dr. Caren Braby, Co-Chair
Oregon Department of Fish and Wildlife*

Overarching Themes of OAH Council



THEME 1

Strengthen OAH science, monitoring, and research



THEME 2

Reduce causes of OAH



THEME 3

Promote OAH adaptation and resilience



THEME 4


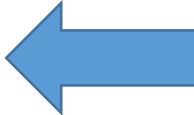
Raise awareness of OAH science, impacts and solutions




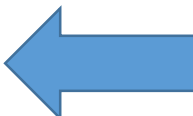
THEME 5

Commit resources to OAH actions


OAH Council recommended priorities

 Support and maintain Oregon's monitoring of OAH oceanographic metrics and biological response metrics (Actions 1.1.a/c) 

 Incorporate OAH into CO₂ management and mitigation discussions in the state (Action 2.1.b)

 Support new initiatives to promote natural ecosystem resilience (Actions 3.2.a/b) 

 Keep legislators and policy-makers up-to-date on the science, impacts of and solutions for OAH (Action 4.2.a) 

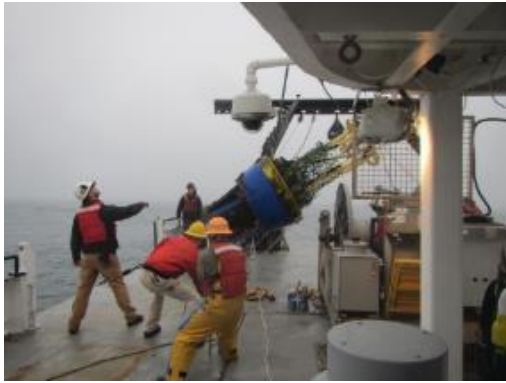
 Develop high-level policy guidance for the state's government agencies on prioritizing OAH in agency workload (Action 5.1.a)

SB260-1: 13 appropriations projects

Note: 6 projects from Shellfish Task Force

Theme 1

Support and maintain monitoring of OAH and biological response



Subtidal monitoring at
Marine Reserves



Intertidal monitoring at
Marine Reserves

SB260-1: 6 Monitoring Projects

Yaquina Bay Monitoring
Newport Hydrographic Line

OAH Instrumentation
Estuary Assessments

OAH Report Actions: 1.1.a/c

Theme 3

Promote Ocean Acidification and Hypoxia Adaptation and Resilience

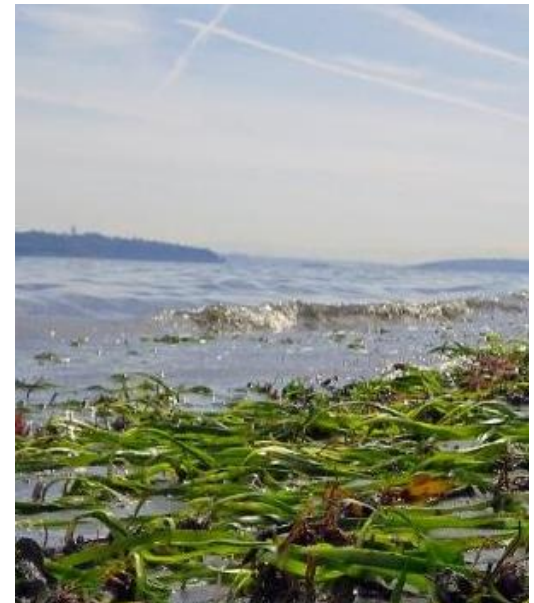
SB260-1: 6 economic & ecosystem resilience projects



Workshop to promote shellfish and aquatic vegetation



Best Management Practices for Shellfish Cultivation



Ecosystem modeling of submerged aquatic vegetation

Theme 4

Raise Awareness of Ocean Acidification and Hypoxia Science, Impacts, and Solutions

SB260-1: 1 communications project



The Oregon Coordinating Council on Ocean Acidification and Hypoxia

OAH Species Spotlight: Salmon

Salmon are one of the favorite pastimes of Oregonians and are a vital part of the state's economy. As well as being a delicious and nutritious food, they are also a key part of the state's ecosystem.

What is at risk?

- Physiological Effects**
Changes in CO₂ levels can affect salmon's ability to breathe and regulate their body temperature. These environmental effects can cause stress and even death in young salmon.
- Sensory Effects**
Ocean acidification can affect salmon's ability to sense their environment, making it harder for them to find food and avoid predators.
- Cumulative Effects**
Early salmon life stages are particularly vulnerable to ocean acidification, which can lead to lower survival rates and smaller fish.
- Economic Effects**
Reduced salmon populations can lead to lower catches and lower prices for consumers. This can have a significant impact on the state's economy.

The Oregon Coordinating Council on Ocean Acidification and Hypoxia

OAH Species Spotlight: Dungeness Crab

The Dungeness crab industry is one of Oregon's most important fisheries.

Physiological Effects
Ocean acidification can affect the crab's ability to breathe and regulate its body temperature. This can lead to stress and even death.

Sensory Effects
Ocean acidification can affect the crab's ability to sense its environment, making it harder for it to find food and avoid predators.

Cumulative Effects
Ocean acidification can lead to lower survival rates and smaller crabs, which can have a significant impact on the industry.

Economic Effects
Reduced crab populations can lead to lower catches and lower prices for consumers. This can have a significant impact on the state's economy.

Oysters

Physiological Effects
Ocean acidification can affect the oyster's ability to breathe and regulate its body temperature. This can lead to stress and even death.

Sensory Effects
Ocean acidification can affect the oyster's ability to sense its environment, making it harder for it to find food and avoid predators.

Cumulative Effects
Ocean acidification can lead to lower survival rates and smaller oysters, which can have a significant impact on the industry.

Economic Effects
Reduced oyster populations can lead to lower catches and lower prices for consumers. This can have a significant impact on the state's economy.

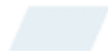
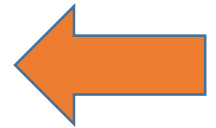
OAH Council recommended priorities



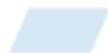
Support and maintain Oregon's monitoring of OAH oceanographic metrics and biological response metrics (Actions 1.1.a/c)



Incorporate OAH into CO₂ management and mitigation discussions in the state (Action 2.1.b)



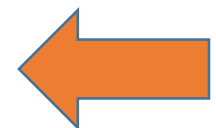
Support new initiatives to promote natural ecosystem resilience (Actions 3.2.a/b)



Keep legislators and policy-makers up-to-date on the science, impacts of and solutions for OAH (Action 4.2.a)


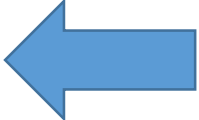
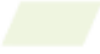

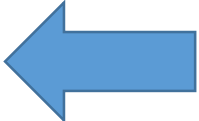

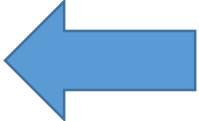



Develop high-level policy guidance for the state's government agencies on prioritizing OAH in agency workload (Action 5.1.a)



SB260-1: NO appropriations projects

OAH Council recommended priorities

-  Support and maintain Oregon's monitoring of OAH oceanographic metrics and biological response metrics (Actions 1.1.a/c) 
-  Incorporate OAH into CO₂ management and mitigation discussions in the state (Action 2.1.b)
-  Support new initiatives to promote natural ecosystem resilience (Actions 3.2.a/b) 
-  Keep legislators and policy-makers up-to-date on the science, impacts of and solutions for OAH (Action 4.2.a) 
-  Develop high-level policy guidance for the state's government agencies on prioritizing OAH in agency workload (Action 5.1.a)

SB260-1: 13 appropriations projects

Note: 6 projects from Shellfish Task Force

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*Comments or Questions? Please contact
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