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Director of Public Affairs



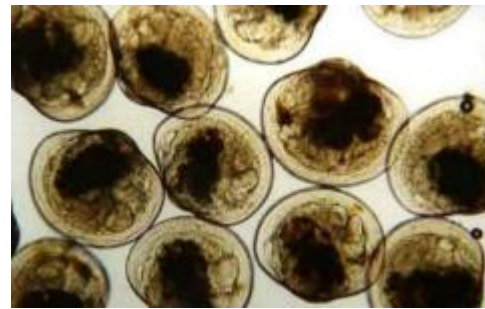
# Climate & Ocean Acidification Adaptation in West Coast Shellfish Aquaculture

# U.S. West Coast Shellfish Products





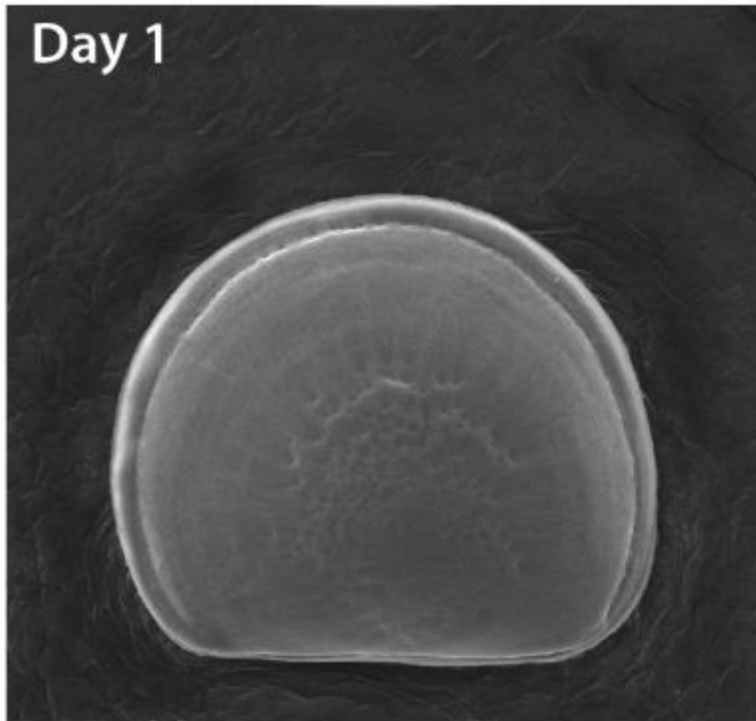
# Shellfish seed production



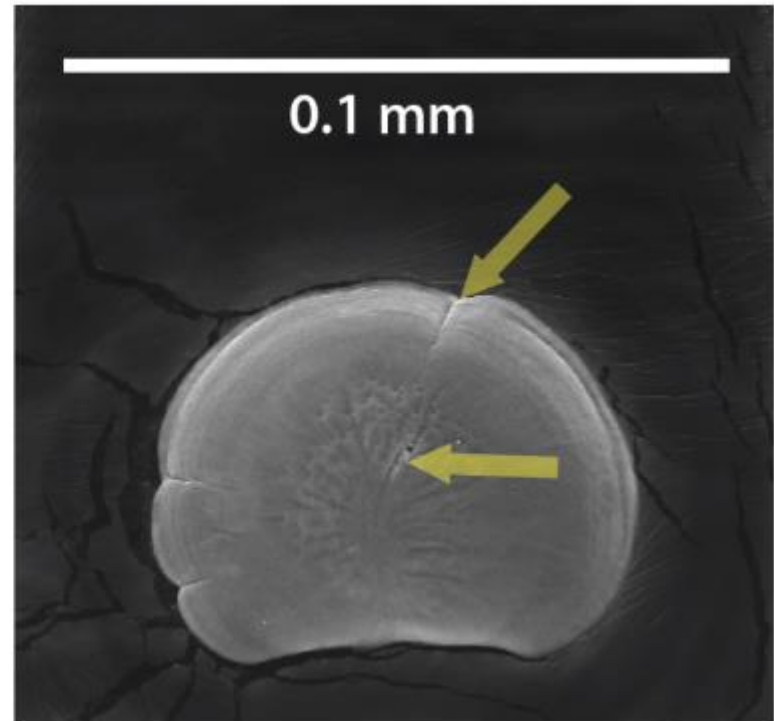
# Day old oyster larvae

Abundant carbonate ions available

Insufficient carbonate ions available



Healthy



Not healthy

# Panic / Adaptation

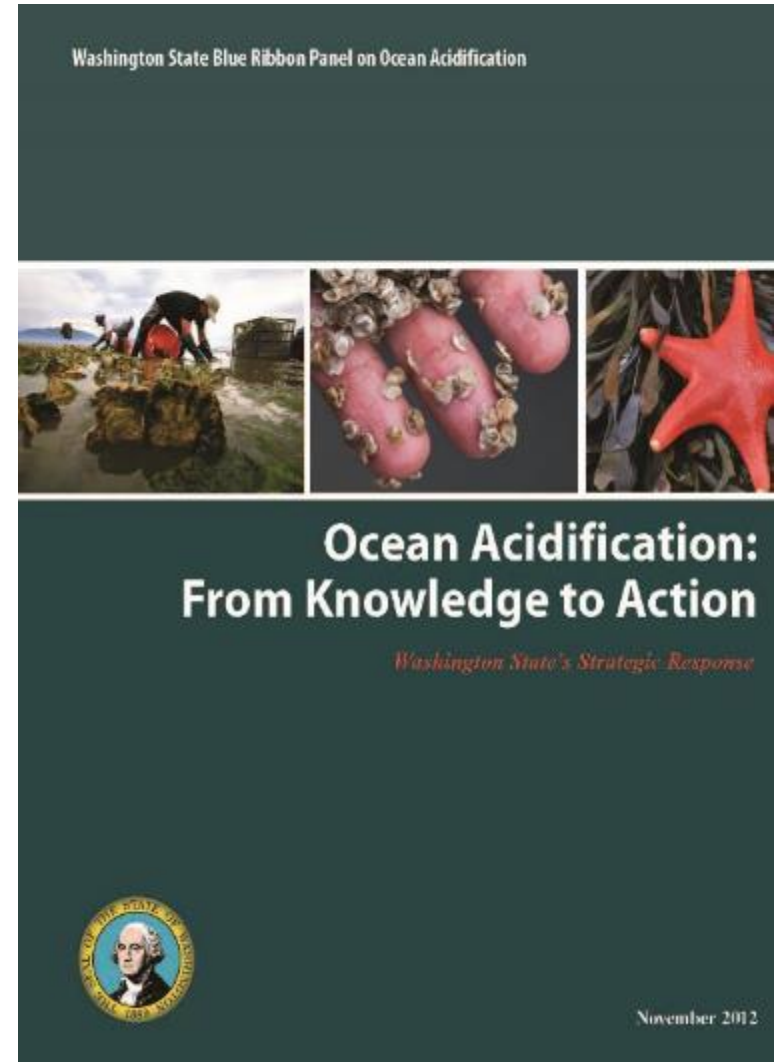
- Ramped up monitoring and research
- Treating hatchery rearing water
- Breeding OA resistant oysters
- Expanded seed production in Hawaii
- Experimenting w/seaweed/seagrass refuges
- Potentially shifting to less vulnerable species





Former Washington Governor Christine Gregoire

[www.oainwa.org](http://www.oainwa.org)





# Other climate impacts of concern for shellfish growers

- Thinner shells weaker byssal threads on mussels
- Sea Level Rise/more severe storms – impacts on water quality and shoreline infrastructure
- More frequent and more toxic Harmful Algae Blooms
- Increasing Vibrio bacteria and associated human health concerns
- Impacts on animal health, pests, invasive species



Taylor Shellfish & Hama  
Hama are founding members



CLIMATE CHANGE STORIES

## Shellfish Growers Climate Coalition

Shellfish growers, wholesalers and restaurateurs from across the United States are uniting to speak up on climate.

[Nature.org/shellfish4climate](https://www.nature.org/shellfish4climate)



# Other OA & Hypoxia Resources

- [NOAA's Ocean Acidification Program](#)
- [Washington Ocean Acidification Center](#)
- [West Coast OA & Hypoxia Science Panel](#)
- [California OA & Hypoxia Science Task Force](#)
- [Oregon Coordinating Council on OA & Hypoxia](#)
- C-CAN – [California Current Acidification Network](#)
- [OA Information Exchange](#)
- NOAA's IOOS – [Integrated Ocean Observing System](#)
- GOA-ON – [Global Ocean Acidification Observing Network](#)
- [International Alliance to Combat Ocean Acidification](#)
- [Interagency Working Group on Ocean Acidification](#)



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