

Workgroup 1: Research and Monitoring

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Strategy #1: Understand status and trends of OA in Washington waters

...4 actions

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2. **Collect high-resolution time series** of physical, chemical and biological data at several index stations.
3. **Develop predictive relationships** for marine chemistry variables.
4. **Establish best practices and new technologies for OA monitoring.**

Strategy #2: Estimate the magnitude of drivers of OA in Washington waters and quantify the human contribution

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6. **Develop and/or refine models** for processes not included in existing models.
7. **Quantify key anthropogenic and natural processes** driving acidification.

Strategy #3: Characterize biological responses among local species

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- 10. Undertake field studies to characterize how OA impacts Washington species.**

Strategy #4: Build capabilities for short-term forecasting and long-term prediction

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- 11. Improve ability to forecast corrosive conditions.**
- 12. Improve ability to predict the future status of carbonate chemistry and pH in Washington waters.**
- 13. Model biological responses to predicted OA conditions.**

Strategy #5: Develop scientifically based strategies to protect the shellfish industry

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- 16. Understand the association between water chemistry variables and hatchery production.**

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- 14. Determine the sensitivity of Washington shellfish species to OA.**
- 15. Conduct studies to determine response of shellfish to OA in combination with other stressors, including pathogens.**
- 16. Understand the association between water chemistry variables and hatchery production.**
- 17. Integrate science into hatchery adaptation and management practices.**

Discussion