



Oregon Marine Scientist and Educator Alliance (ORSEA)

ORSEA connects math and science **educators** with **scientists** to create and pilot lessons centered around marine-focused anchoring phenomena.

ORSEA supports data science education and ocean literacy, while also exposing students to a variety of marine-related careers. This project is funded by Oregon Sea Grant and the National Science Foundation through OSU's Regional Class Research Vessel Project.

ORSEA Vision

ORSEA connects educators and marine researchers around important ocean issues, career-connected learning, and effective science communication practices.

1. Marine scientists receive training in communicating science and share their research and career stories with teachers and students.
2. Teachers work with researchers to develop engaging, contextualized, relevant lessons that meet educational goals.
3. Networks are developed and sustained that address important ocean issues, increase science literacy, and help prepare students for the future.

Lessons

ORSEA teams create lesson plans centered around Anchoring Phenomena.

2019-20 Year One – 7 lessons

2020-21 Year Two – 7 lessons

2021-22 Year Three – 10 lessons

2022-23 Year Four – 6 lessons

The lessons can be found on Oregon Sea Grant's searchable K-12 Curriculum page, accessed by QR code or

this url: <https://seagrants.oregonstate.edu/k-12-curriculum>



Who Has Participated in ORSEA?

So far, 51 Oregon educators and 31 Oregon scientists have participated in ORSEA, producing more than 30 lessons focused on marine science anchoring phenomena.

Teachers

ORSEA educators from all over the state of Oregon have participated in the ORSEA project. They have come from Bandon, Brookings, Coquille, Coos Bay, Eugene, Florence, Gresham, Halfway, Lincoln County, Molalla, Neah-Kah-Nie, North Bend, Portland, Rainier, Salem, Seaside, Sheridan, Sherwood, Tillamook, and Warrenton.

Scientists

Similarly, ORSEA scientists come from a variety of institutions and organizations, including the National Oceanic and Atmospheric Administration, Oregon Department of Fish and Wildlife, Oregon State University, South Slough National Estuarine Research Reserve, University of Oregon, and University of Oregon's Charleston Marine Life Center.



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