# Inner Shelf Chlorophyll Response to Upwelling

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Background: A wave crashing over the Yaquina Bay bar off the coast of Newport, Oregon, from Haxel, J. (2016), Local Waters, *Ocean Acoustics Program*, https://blogs.oregonstate.edu/acoustics/2016/02/18/local-waters/

## Research Area



Array Data

CE01ISSP-SP001-

06-NUTNRJ000

(NHL) Gridded

Sections<sup>4</sup>

Risien, C. M., Fewings, M. R., Fisher, J. L., Peterson, J. O., & Morgan, C. A. (2022). *Data in Brief*, *41*, 107922. https://doi.org/10.1016/j.dib.2022.107922

#### Wind Forcing of Inner Shelf Nitrate



#### Physical Controls on Inner Shelf Nitrate



## ACS Chlorophyll Dataset



#### Inner Shelf Chlorophyll Response to Upwelling



# What did I learn?

Most important takeaways for me:

- OOI Data Explorations repository thanks all who contributed!
- Understanding how others are using optical data and the types of problems they are interested in solving with it, which really influences the ecosystem motivations behind the physical questions I investigate

Something I still want to work on:

• Programmatic ways to handle QA/QC on long term optical datasets

### Many thanks to organizers and contributors!