

# Oceans of Research



## Lesson 1

[https://web.uri.edu/gso/files/N-Dawn\\_Back\\_View\\_sm.jpeg](https://web.uri.edu/gso/files/N-Dawn_Back_View_sm.jpeg)



# THE RCRVs



Rendering of the R/V Taani. Oregon State University. Retrieved from <https://today.oregonstate.edu/news/osu-name-new-research-ship-taani-which-means-%E2%80%99Coffshore%E2%80%99D-1>



Rendering of the R/V Narragansett Dawn. University of Rhode Island Graduate School of Oceanography. Retrieved from [https://web.uri.edu/gso/files/N-Dawn\\_Back\\_View\\_sm.jpeg](https://web.uri.edu/gso/files/N-Dawn_Back_View_sm.jpeg)

# WHO ARE OCEANOGRAPHERS & WHAT IS OCEANOGRAPHY?



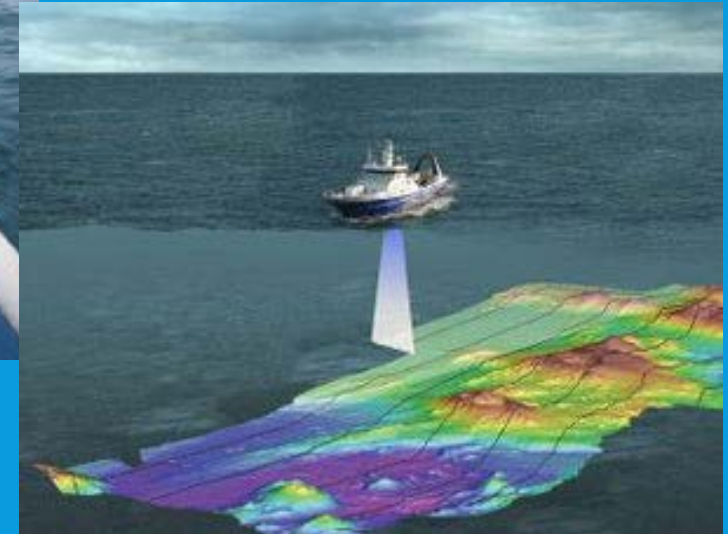
Retrieved from: [https://web.uri.edu/gso/files/Angela-Stahl-diving-2021-BRM\\_0254.jpg](https://web.uri.edu/gso/files/Angela-Stahl-diving-2021-BRM_0254.jpg)



Retrieved from: <https://spark.adobe.com/page/bjRLv/>



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Retrieved from: [https://schools.look4.net.nz/careers/new-zealand-careers/careers-descriptions/jobs/geological\\_oceanographer](https://schools.look4.net.nz/careers/new-zealand-careers/careers-descriptions/jobs/geological_oceanographer)



**SHE SAVES  
THE OCEAN**

[https://youtu.be/B-\\_dv0B0g1c](https://youtu.be/B-_dv0B0g1c)



[https://youtu.be/51y\\_Ahx3Mxw](https://youtu.be/51y_Ahx3Mxw)

# WHEN DID OCEANOGRAPHY BECOME A SCIENTIFIC DISCIPLINE?



*The Challenger. Britannica Online. Retrieved from <https://www.britannica.com/event/Challenger-Expedition/media/1/104756/16297>*



*Research "van" system. Retrieved from <https://web.uri.edu/gso/files/Research-van-interior.jpg>.*

# WHERE DOES OCEANOGRAPHIC RESEARCH HAPPEN?

- Oceanographic research happens all over the world
- New England is a unique place for oceanography. Researchers from around the world come to study here!



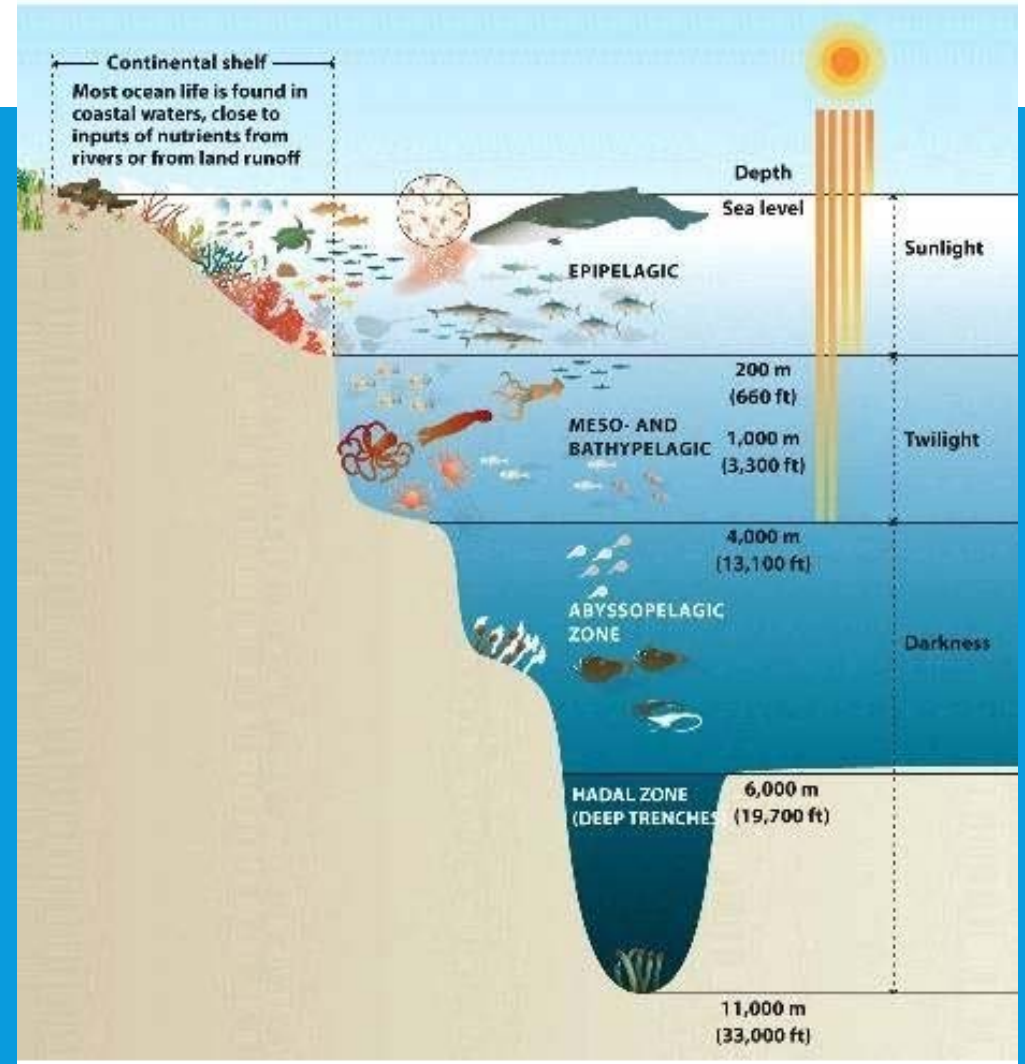
On an unusually flat sampling day on Narragansett Bay, GSO graduate student Mary Kane and undergraduate intern Rachel Marshal, prepare to release the day's catch. Photo Katie Pratt.



Map of the Atlantic Coast's Submarine Canyons and Seamounts. Source: [https://www.fws.gov/northeast/northeast-canyons-and-seamounts/images/about/canyons\\_map.jpg](https://www.fws.gov/northeast/northeast-canyons-and-seamounts/images/about/canyons_map.jpg)

# WHERE DOES OCEANOGRAPHIC RESEARCH HAPPEN?

- Most research has historically taken place in the Epipelagic and Mesopelagic zones, which are considered “shallower” water.
- In more recent times, more efforts have been dedicated to exploring the deeper, darker parts of the ocean.





# WHY DO WE CONDUCT MARINE RESEARCH AND COLLECT DATA?

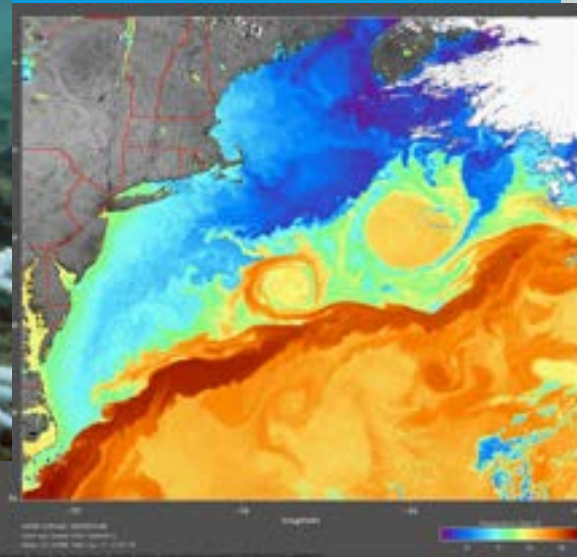
- The ocean provides us with food, oxygen, affects our weather and climate, etc. It is important for our survival!
- The more we know about marine issues, the better we can solve them.



*Plastic pollution, retrieved from: <https://www.oregister.com/2018/04/21/earth-day-2018-how-plastic-pollution-occurs-and-what-we-can-do-to-lessen-it/>*



*Coral bleaching in the Great Barrier Reef. Source: <https://sharkresearch.rsmas.miami.edu/coral-bleaching-of-the-great-barrier-reef/>*



*Modeling of Sea Surface Temperatures shows an eddy on the northern fringe of the Gulf Stream, retrieved from: <https://web.uri.edu/gso/research/ocean-currents/>*



*Humpback Whale, retrieved from <http://www.hsumarinelab.org/new-page-1>*