

BIG DATA: WHAT IS IT & WHY DO YOU CARE?

- ? Big Data:
 - 1. Large amounts of available data.
 - 2. Can be challenging to find and use.
- ? You have more access to data than ever before
 - 1. It's used in your daily activities.
 - 2. It's used in many modern careers.



Big Data Strategy: Key to Successful Business. Unknown Author. Retrieved from https://technofaq.org/posts/2014/10/big-data-strategy-key-to-successful-business/

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%9Coffshore%E2%80%9D-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

WHO ARE OCEANOGRAPHERS & WHAT IS OCEANOGRAPHY?





https://youtu.be/B-_dv0B0g1c



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!



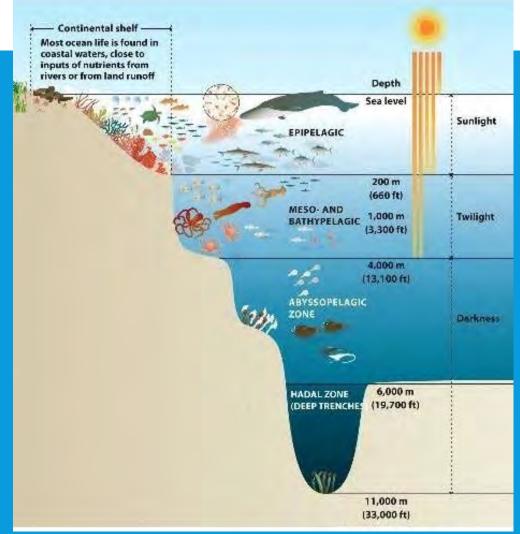
On an unusually flat sampling day on Narragansett Bay, GSO graduate student Mary Kane and undergraduate intern Rachel Marshal, prepare to release the day's catch. Photo Katie Pratt.



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

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.



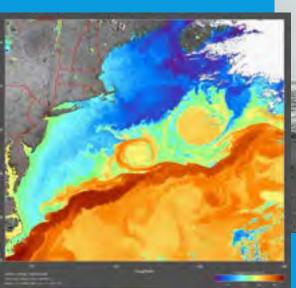
https://sites.google.com/site/osd2ndgradehabitats/ocean-habitat/ocean-zones/15 04%20%281%29.jpg?attredirects=0

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.ocregister.com/ 2018/04/21/earth-day-2018-how-plastic-pollution-occurs-andwhat-we-can-do-to-lessen-it/



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/



Jumpback Whale, retrieved from http://