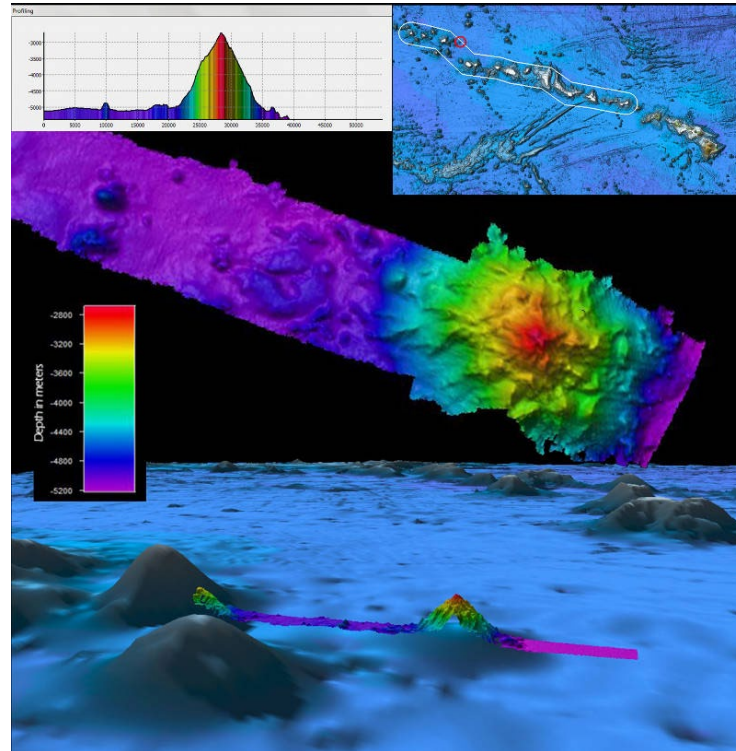




Wet Maps





Wet Maps - Introduction

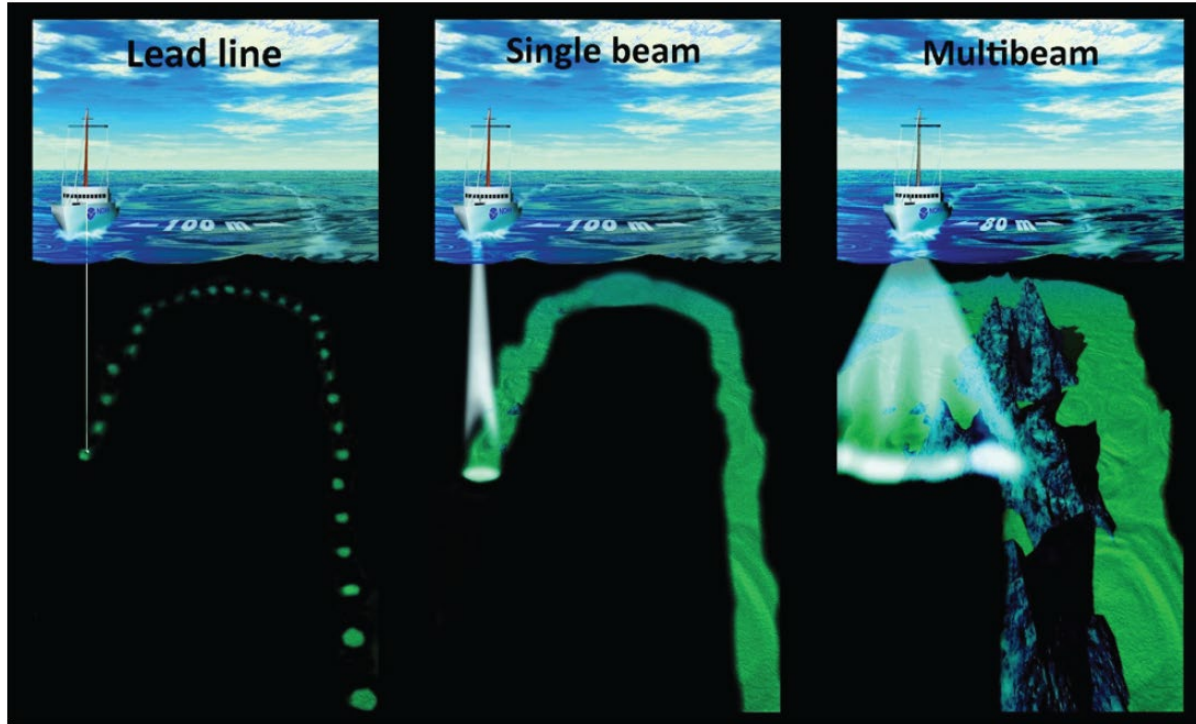
Driving Question

How do scientists create and use maps to help them identify features on the ocean floor?

Let's think about it!

- How do we know what the seafloor looks like deep below the sea surface?
- What tools have been developed to make it easier to visualize the seafloor?
- What is sonar? How do you think it works?
- What do you think “multibeam” means? How does it differ from a single beam?

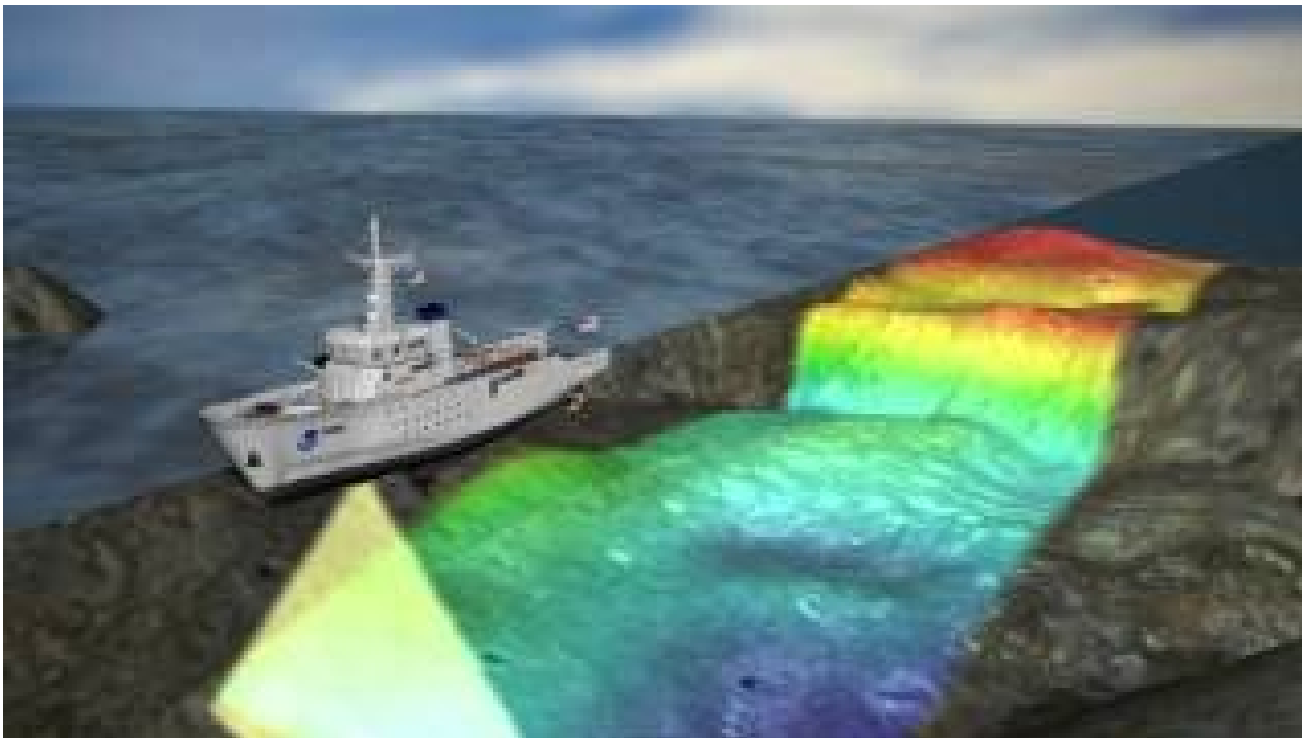
Advancements in Seafloor Mapping



Adapted from the Canadian Hydrographic Service.

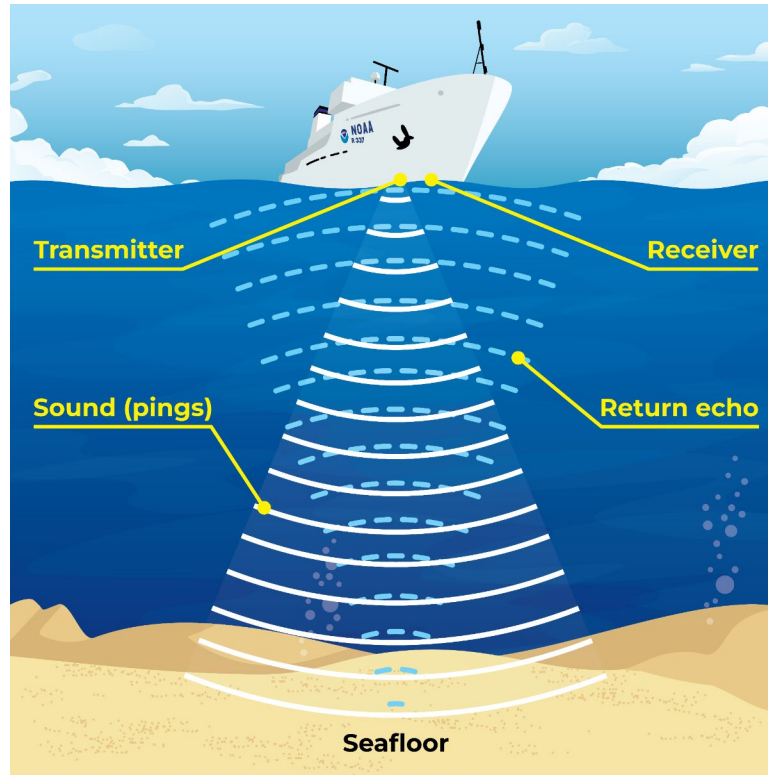


Advancements in Seafloor Mapping



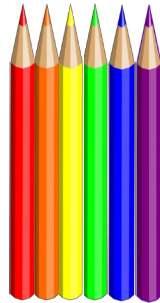
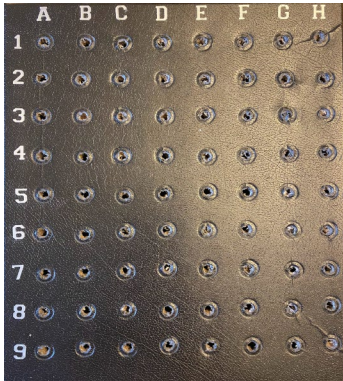
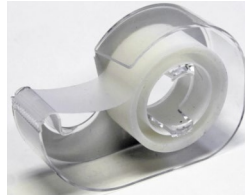


Wet Maps - Introduction





Wet Maps - Materials



Mapping Simulation Group Data Sheet

Use this sheet to record all your mapping data for Rows 1-9 and Columns A-H.

Member Names: _____ Which box do you have? _____

		COLUMNS									
		A	B	C	D	E	F	G	H	I	J
ROWS	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										

Depth Data Graph Sheet

Before you begin to graph your data, first color the entire grid below like a rainbow using the color depth key provided below.

Depth 0-3 = RED (0-300 M) Depth 3-6 = ORANGE (300-600 M)
 Depth 6-9 = YELLOW (600-900 M) Depth 9-12 = GREEN (900-1200 M)
 Depth 12-15 = BLUE (1200-1500 M) Depth 15-18 = PURPLE (1500-1800 M)

		COLUMNS									
		A	B	C	D	E	F	G	H	I	J
DEPTH (Meters)	Row										
	0										
	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
18											
		COLUMN									

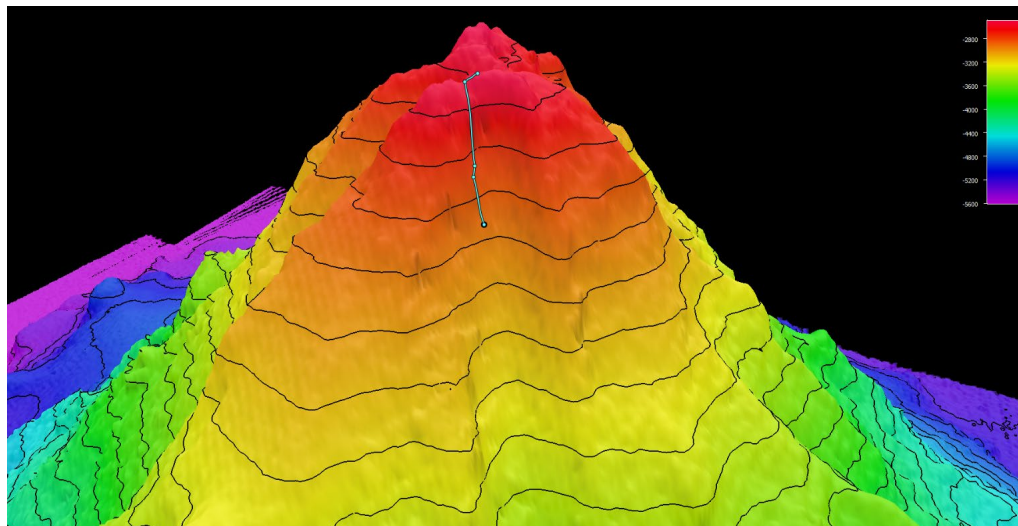
Fold →



Wet Maps - Learning Procedure

What do the pencils/wooden dowels represent?

Which way should you insert rods into the box? Why?



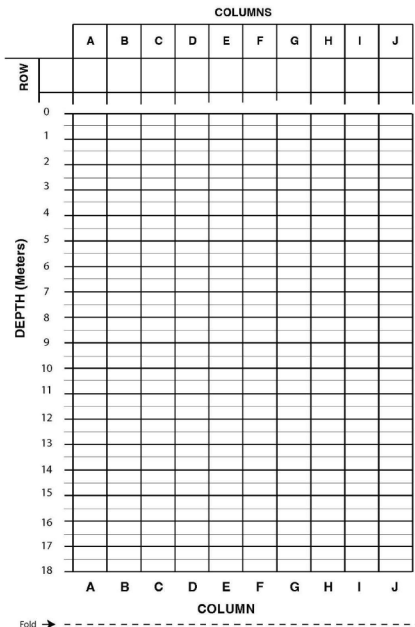


Wet Maps - Learning Procedure

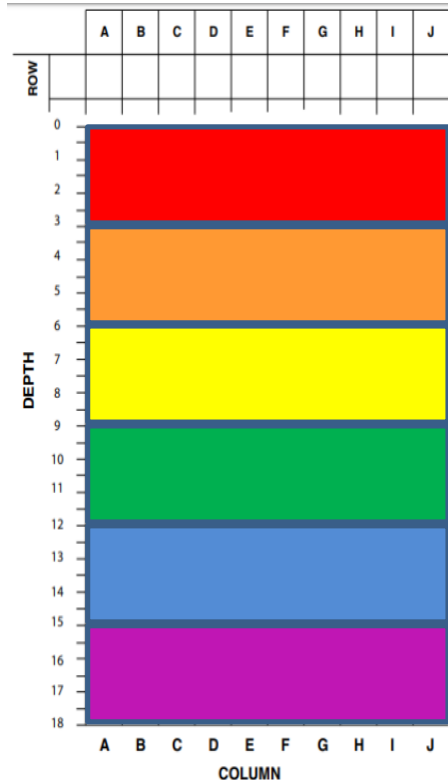
Depth Data Graph Sheet

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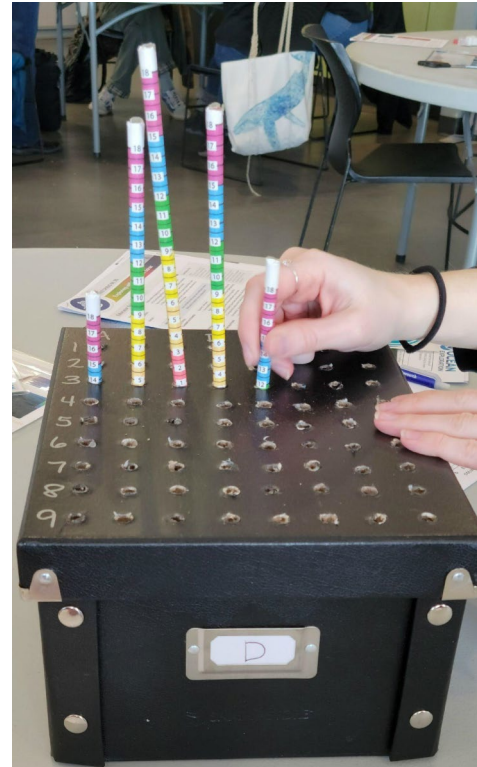
Fold →





Wet Maps - Learning Procedure

Let's Map!

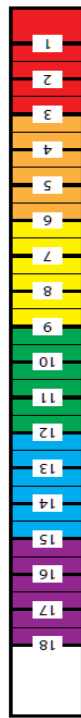
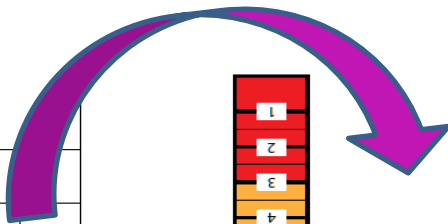




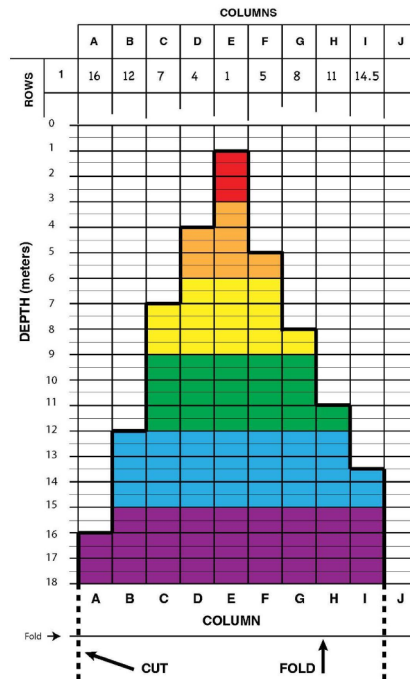
Wet Maps - Learning Procedure

Multibeam Mapping Simulation Data Sheet

		COLUMNS								
		A	B	C	D	E	F	G	H	I
ROWS	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									

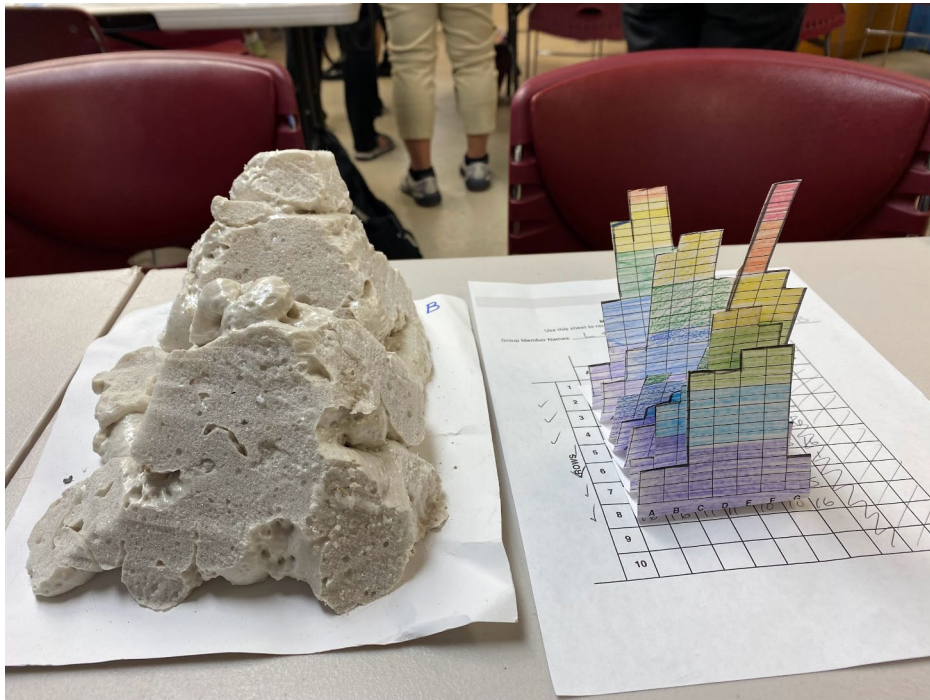
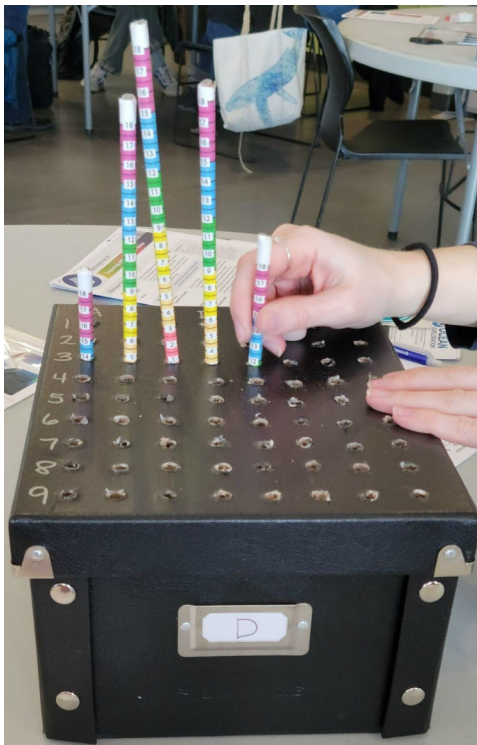


Sample Graph



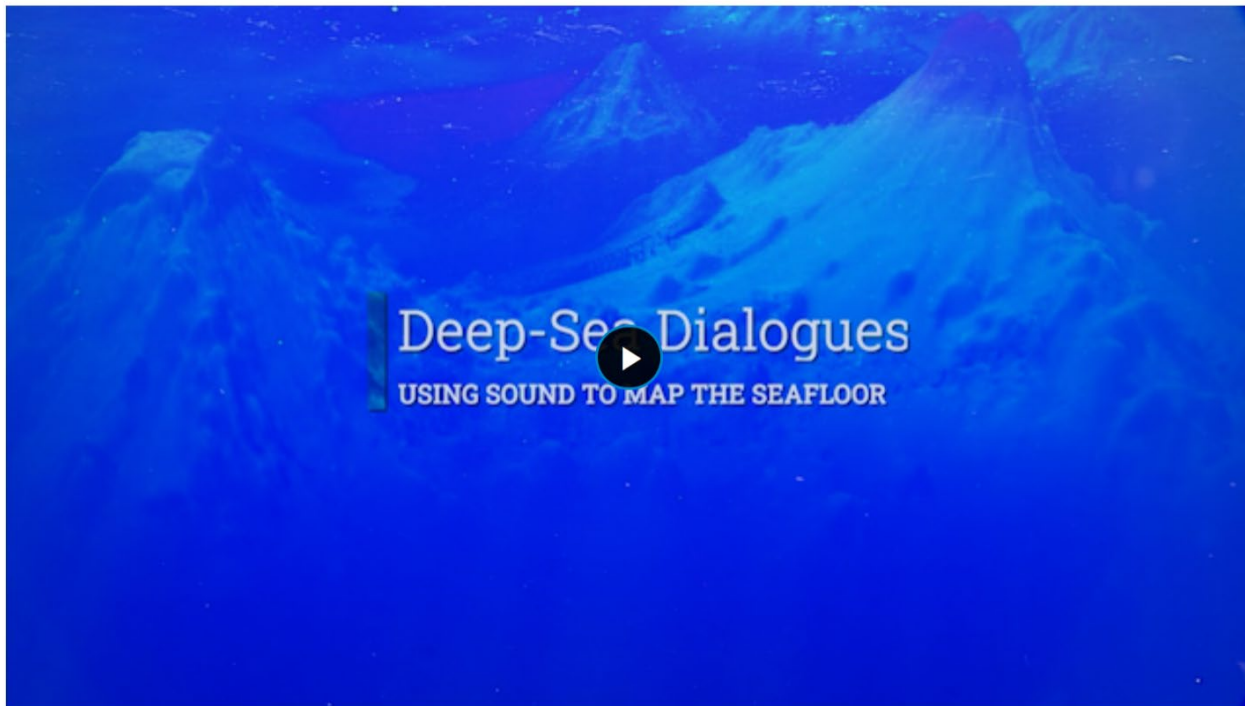


Wet Maps - Learning Procedure





Wet Maps - Putting the Pieces Together



<https://oceanexplorer.noaa.gov/edu/multimedia-resources/dsd/media/2023-DSD-Mapping-v6-1920x1080.mp4>