

**OCEAN EXPLORERS: SAMPLE STUDENT PRODUCTS**

**Graphing worksheet: Exceptional Example**

This student completed the graphing exercise (the majority of students did not complete this activity). A couple of the labels were incorrect, but for the most part, they completed the exercise correctly.

One of the places we are interested in exploring is the Mid-Ocean Ridge which can be found in the Atlantic Ocean. So, a ship set sail from Nova Scotia in Canada to Soulac, France, taking sonar measurements along the way. Below are the depth measurements that were taken.

1. Label the horizontal axis **Longitude** and mark from 65° W to 0° from left to right.
2. Label the vertical axis **Depth** and mark 0 meters at the top and -5000 meters at the bottom
3. Plot these depths on your graph.

Ocean Depth Sonar Data	
Longitude	Ocean depth (m)
64° W	0
60° W	-91
55° W	-132
50° W	-73
48° W	-3512
45° W	-4024
40° W	-3805
35° W	-4171
33° W	-3439
30° W	-3073
28° W	-1756
27° W	-2195
25° W	-3146
20° W	-4244
15° W	-4610
10° W	-4976
05° W	-4317
04° W	-146
01° W	0

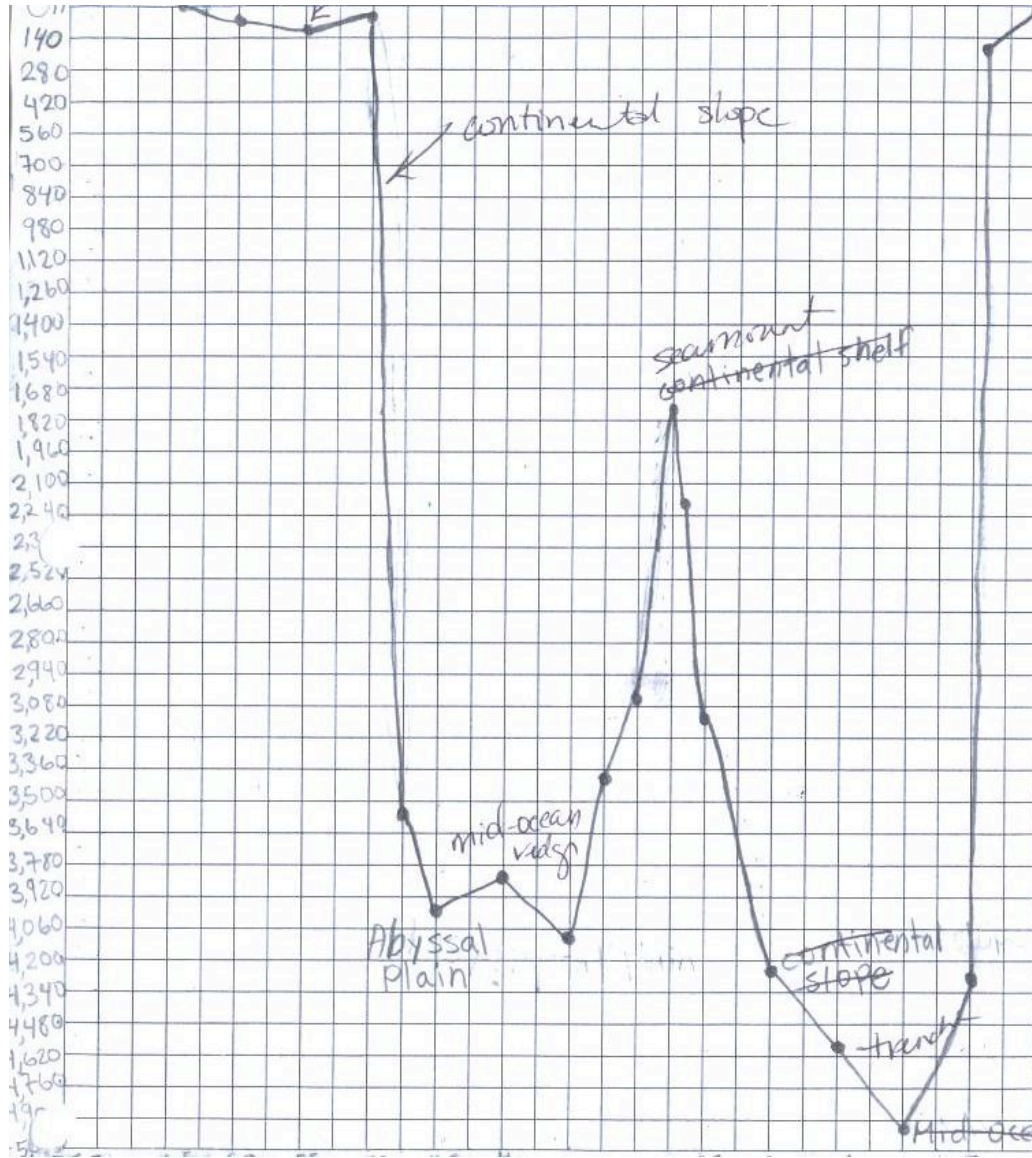
85

Next, label the following features:

- continental shelf
- continental slope
- abyssal plain
- mid-ocean ridge
- where you may find hydrothermal vents

What feature is indicated at 10° W?

Mid-ocean-ridge trench



Categories	Score	1	2	3	4
Box chart complete	4	1 section complete with 1-2 statements in the section	2-3 sections complete with 1-3 statements in each section	All sections complete with 2-3 statements in each section	All sections complete with 4-5 statements in each section
Completed graph	3	No points plotted, no features labeled, no questions answered	Plot some points, label 2-3 features,	Plot some points, label 3-4 features, partially answer questions	Plot all points, label all features, fully answer the questions
Brainstorming	4	Identify fewer than 3 advantages or disadvantages	Identify at least 3 advantages or disadvantages	Identify 4 advantages or disadvantages	Identify more than 4 advantages or disadvantages to mining in the ocean
Group presentation / Product	3	Produce is not accurate	Accurate product but does not address the issue	Accurate presentation that addresses the issue	Original, accurate, and interesting presentation
References used	4	Include less than 2 resources, no evals for websites	Include least 2-3 resources of questionable quality, missing evals for websites	Include 2-3 high quality resources including evals for websites	Include at least 4 high quality resources including evals for websites
Group participation	4	Self/peer and facilitator evaluation with average score of 1-2	Self/peer and facilitator evaluation with average score of 3-4	Self/peer and facilitator evaluation with average score of 5-7	Self/peer and facilitator evaluation with an average score of 8-10