

Notes: Topic 7.3-7.6 Surface Processes

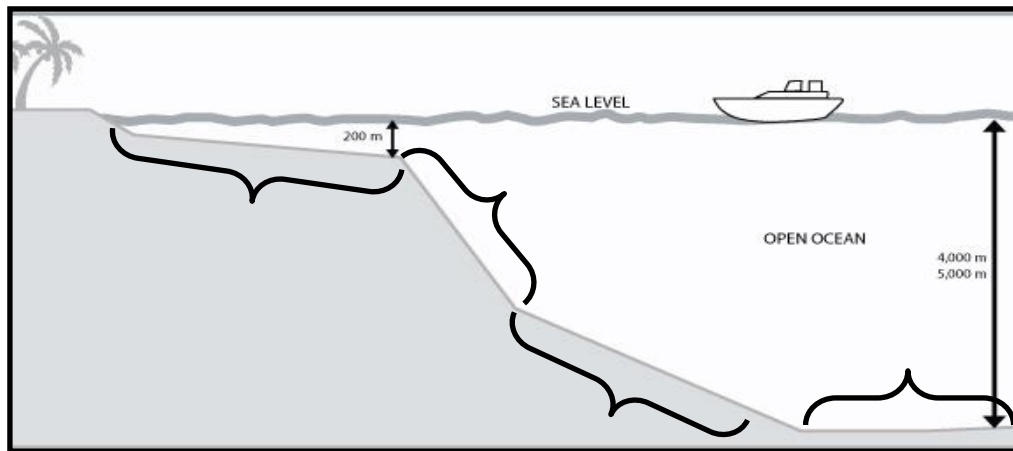
7.3 Oceanography

(definition) _____

A. Ocean Basics:

1. What is the average depth of the ocean? _____
2. What are some things oceanographers can do for their work?

3. **Label** the 4 sections of the ocean floor (page 402 in text).



B. Ocean Circulation (Section 16.1 in text)

Types of Circulation:

1. Surface Currents – _____

- What causes surface ocean currents? _____

Gyres - _____

2. Deep-Ocean Circulation – _____

- Why does ocean water circulate beneath the surface? _____

Watch the video that is hyperlinked on slide 8 and take notes below. A paragraph will be assigned later based on this info. Video link: <http://www.youtube.com/watch?v=UuGrBhK2c7U>

C. Erosion from Oceans:

- 1. The action of waves and currents move sediment and change the shoreline considerably over time and is often called **beach erosion**.
- 2. Long-shore transport (aka drift) – _____

Describe how long-shore currents move sediment? _____

D. Deposition from Oceans:

- 1. Sand bars- _____
- 2. Sand spits - _____
- 3. Barrier Islands - _____

- 4. Jetties and groins are man-made features to reduce beach erosion.

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7.4 **Glaciers** (Section 7.1 in text)

A. Describe the two main types of glaciers:

1. Ice sheets (continental):



2. Mountain or valley:



B. How do glaciers form?

1. How do glaciers move?

2. What causes a glacier to retreat?

C. Glacial Erosion: How do glaciers erode sediments?

Plucking - _____

D. Glacial Deposition: How do glaciers deposit sediments?

1. What features form from glacial deposition?

Landform Feature	Brief Description
U-shaped valleys	
	Bowl-shaped depressions carved by mountain glaciers
Horns	
Moraines	
Drumlin	

E. Other Important facts about glaciers:

1. Sediments that glaciers deposit are usually _____ (sorted or unsorted).
2. **Striations** are scratches that glaciers leave on the bedrock as they move over it.
3. New York has several prominent glacier landforms. What are they?

Name _____

Earth Science

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7.5 Wind:

A. Wind Erosion:

B. Wind Abrasion:

C. Wind Deposition:

7.6 Gravity:

A. Gravity gets the Assist:

B. Gravity Erosion:

Washington Mudslide Video: What caused this event?

Questions:



1. Describe what the "great pacific garbage patch" is and how gyres helped create it.

2. How do surface ocean currents affect climates of certain regions? (be specific)

3. How can an increase in sea water density be caused?

Write at least 2 questions you still have about these topics:

List at least one of these concepts that you'd like to learn more about (from the entire ppt).