


What is this ecosystem, how is it characterized

Ocean– An Oceanic Ecosystem

What

- Open Water
- Marine (Salt Water)
- Covers most of the planet

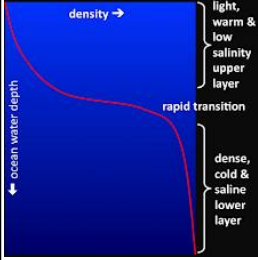


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Characterized By: _____

1) _____



- _____ **zone** (Less _____, Less _____)

 - extends down to about 100- 300 meters
 - well mixed
 - known as the "mixed layer"
 - includes the photic zone

- _____ **zone** (_____, _____)

 - the rest of the water column
 - dark and cold with much less productivity
 - includes the aphotic zone

- the pycnocline (Salt Gradient) forms a physical barrier between the surface and deep zones

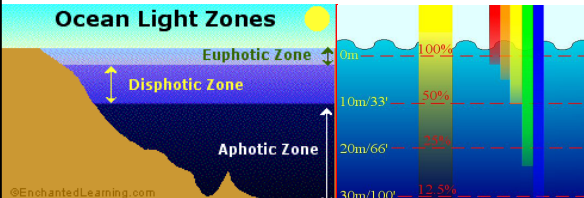
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Characterized By: Depth

2) _____ (_____ Zone)

- Is limited by light availability, which is a function of _____ and _____
- Light wavelengths _____ the deeper you go




Question

WHY DOES IT LOOK BLUE UNDER WATER?

Functions (why it is needed) & A local example

Chemical Functions

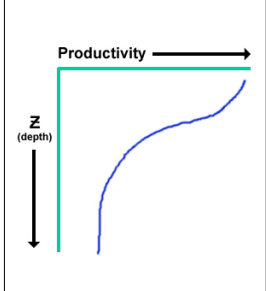
- _____ - _____ % of all the _____ we breathe comes from algae



Functions (why it is needed) & A local example

Physical Functions

- Productivity is high in the _____ waters (i.e. photic zone)
 - Due to:
 1. Ample _____ for _____
 2. Decreases with depth (i.e. aphotic zone)



Functions (why it is needed) & A local example

Ocean

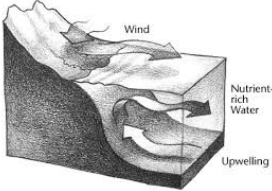
SF Bay Ocean Characterized by:

Vertical movement of ocean water

Ocean water can move up or down due to wind, heating, or density differences.

_____ = cold deep water comes to surface

- Occurs with steep _____
- Brings up _____ water
- Along with _____ to _____
- Promotes fisheries and species migration to feed



Q: What Makes Ca Coast so special?