TOPIC: MARINE AQUATIC BIOMES

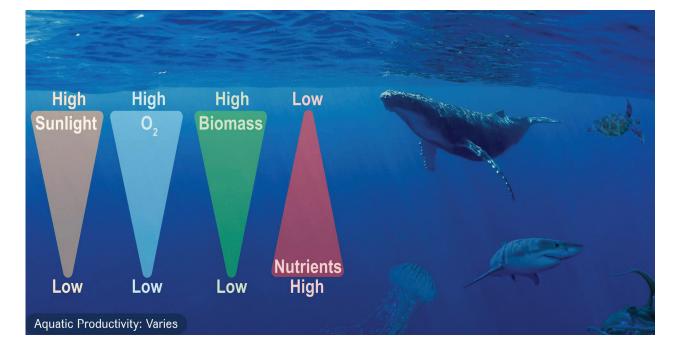
Intertidal Zones

- ◆ Intertidal Zone: coastal shore area between the low & high ______.
 - ▶ Periodically exposed to air & ______ by ocean water (tides occur twice a day).
 - Oxygen & nutrient levels replenished with each high tide.



Marine Pelagic Zone

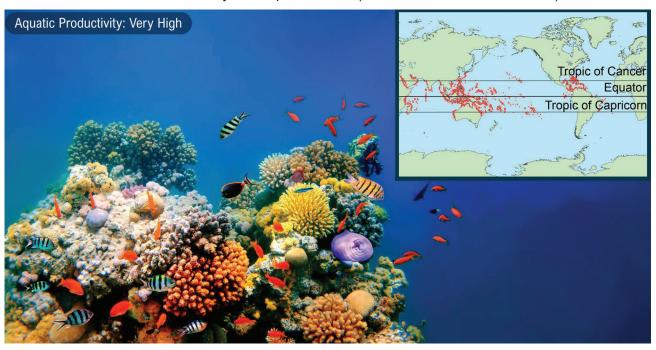
- ◆ Also known as the "open ocean"; consists of entire ocean from surface down to just above ocean floor.
 - Generally, a *decreasing* biomass gradient but ______ nutrient gradient exists with depth.



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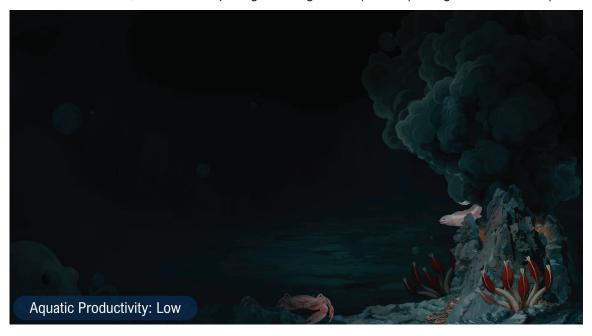
Coral Reefs

- ◆ Ridges formed by the CaCO₃ exoskeletons of ______; located in shallow, warm tropical & subtropical waters.
 - ▶ Have ______ biodiversity of all aquatic biomes (known as "rainforests of the sea").



Marine Benthic Zone

- ◆ Benthic Zone: consists of the entire ocean ______.
 - Most of it receives no sunlight; however, deep sea hydrothermal _____ provide unique source of energy.
 - Nutrient-_____, due to decomposing dead organisms (detritus) falling to the sea floor (marine "snow" effect).



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Which of the following marine biomes could experience turnover in the spring & fall?

a) Pelagic zone.

c) Coral reefs.

b) Intertidal zone.

d) Marine benthic zone.

PRACTICE

In which marine biome would you expect to find organisms that are adapted to withstand extremely high temperatures & a complete lack of sunlight?

a) Pelagic zone.

c) Coral reefs.

b) Intertidal zone.

d) Marine benthic zone.

PRACTICE

Which of the following marine zones experiences the most fluctuation in temperature?

a) Pelagic zone.

c) Neritic zone.

b) Intertidal zone.

d) Photic zone.