

# THE OPEN OCEAN

Grade 5 Unit 6



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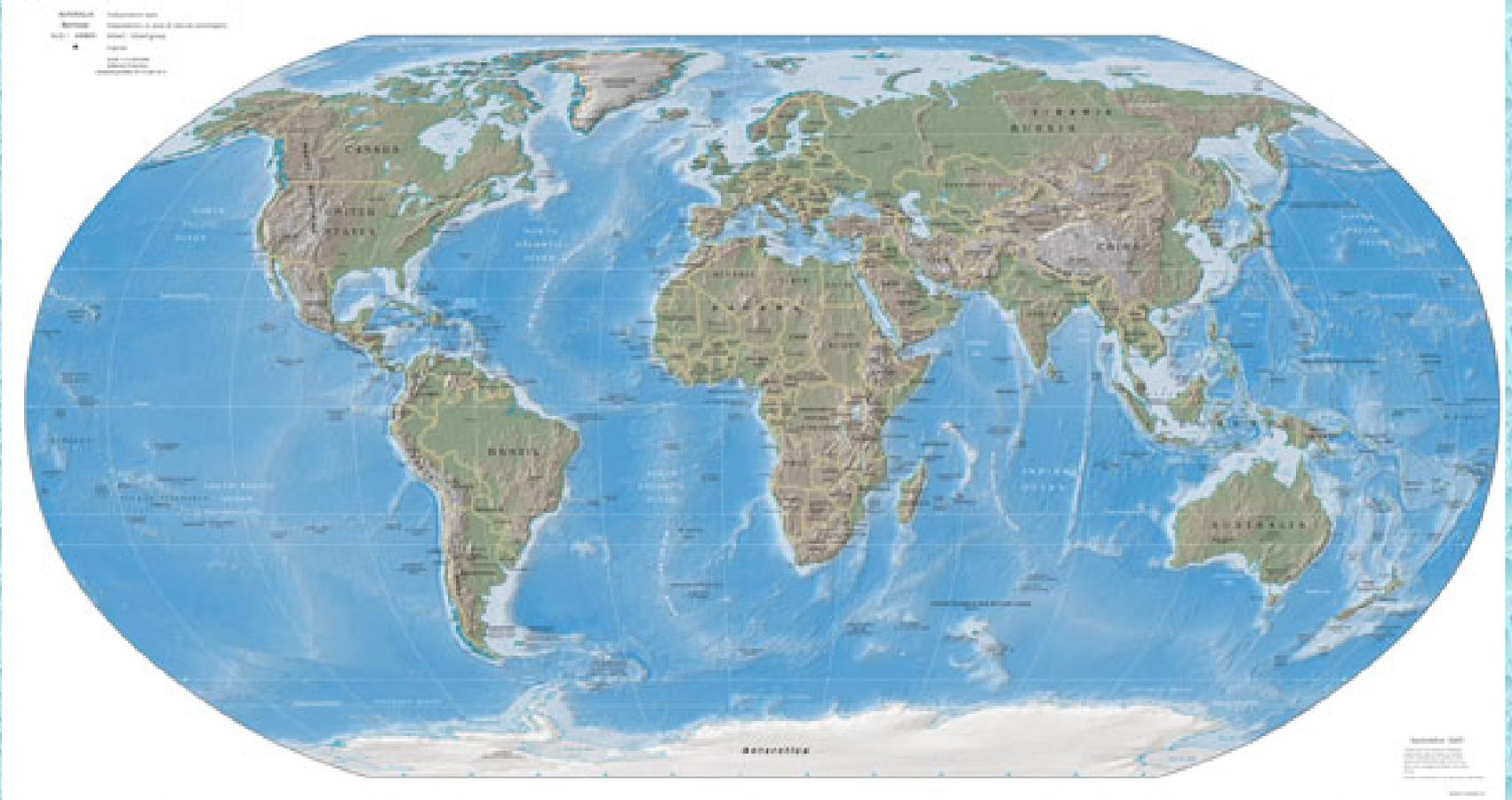
How much of the Earth is covered by the ocean?

What do we mean by the "open ocean"?

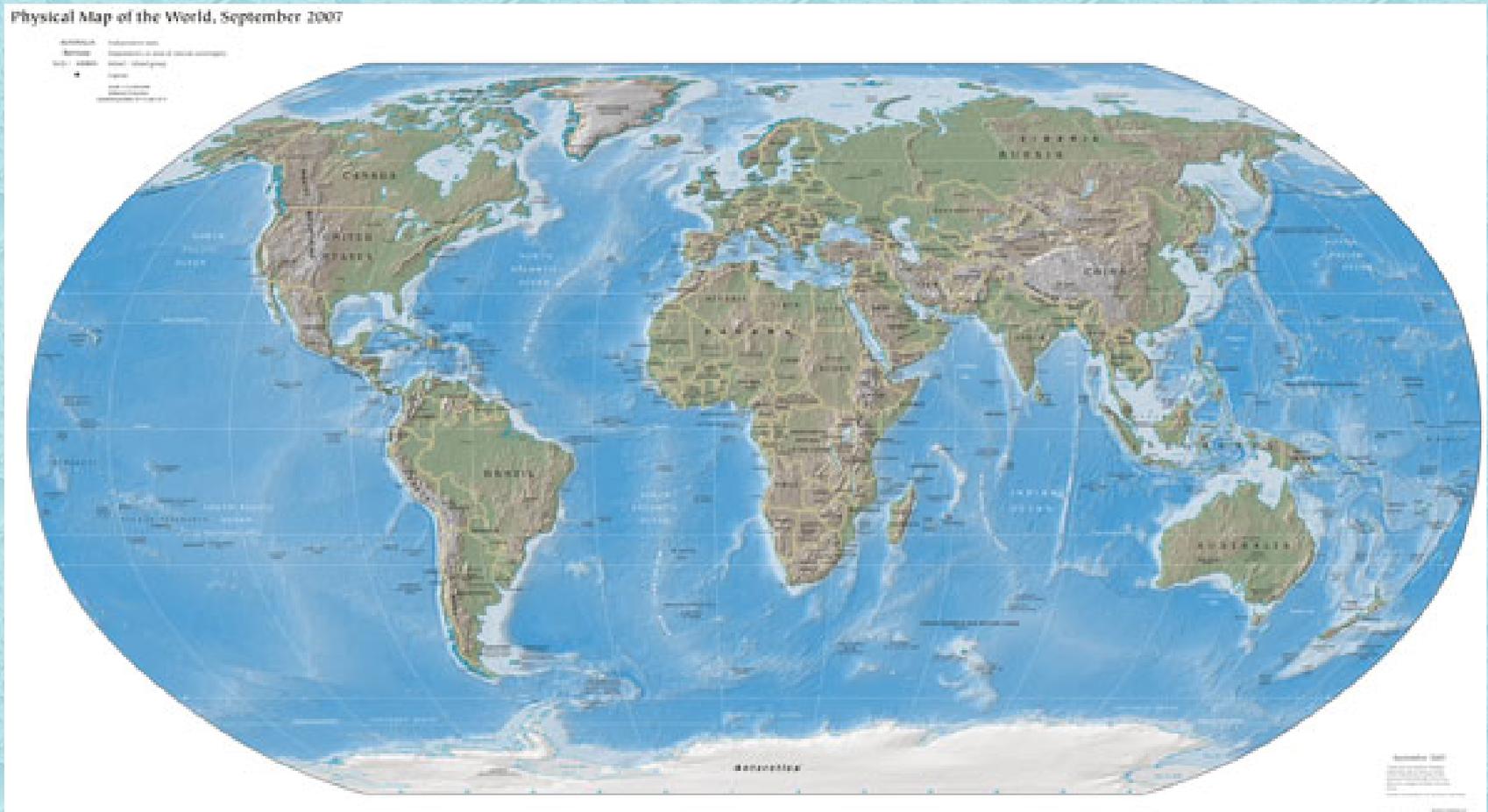
How do we describe the open oceans of Hawai'i?

# The World's Oceans

Physical Map of the World, September 2007



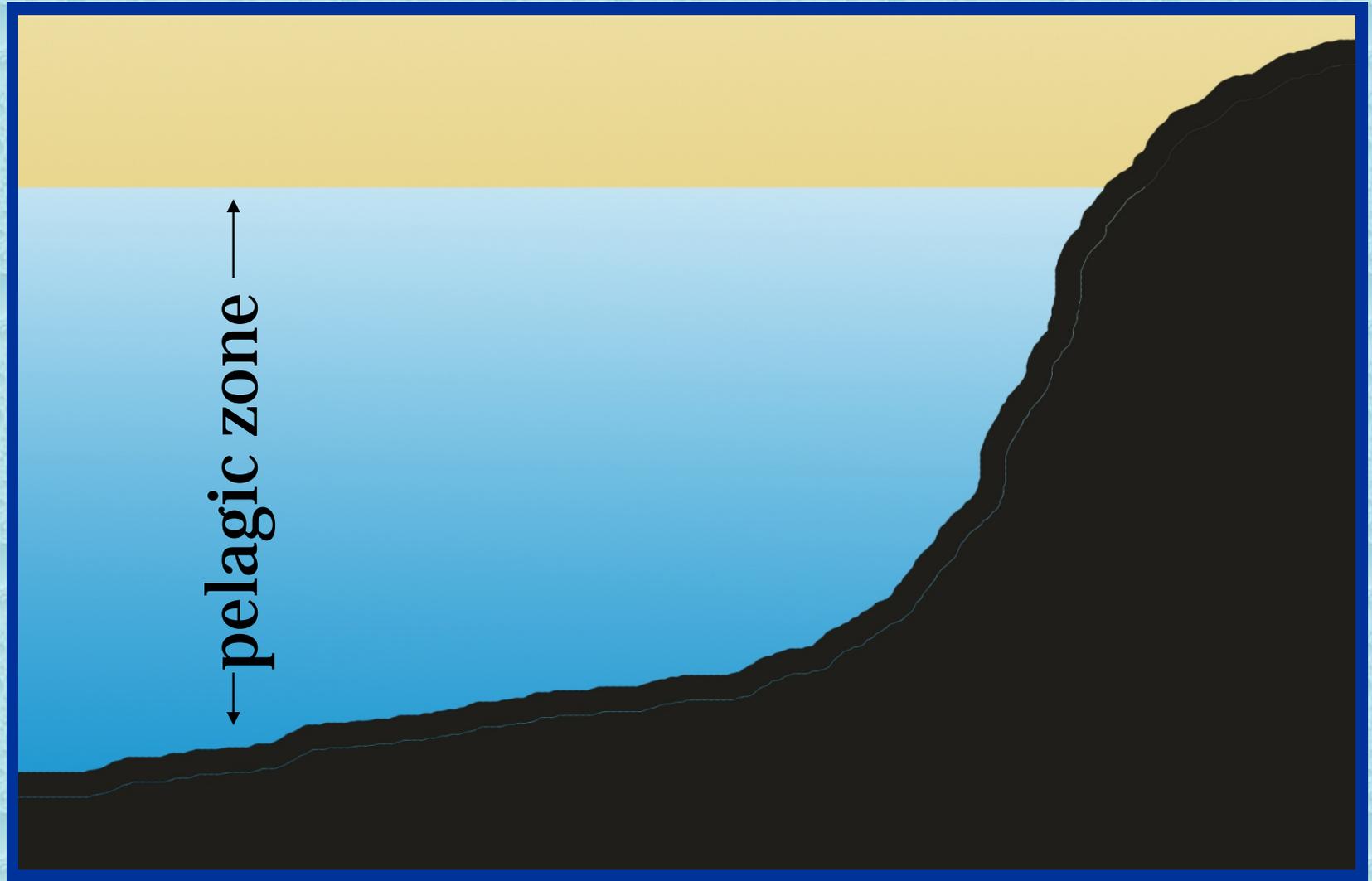
The ocean is the world's largest habitat.  
It covers about 70% of the Earth's surface.



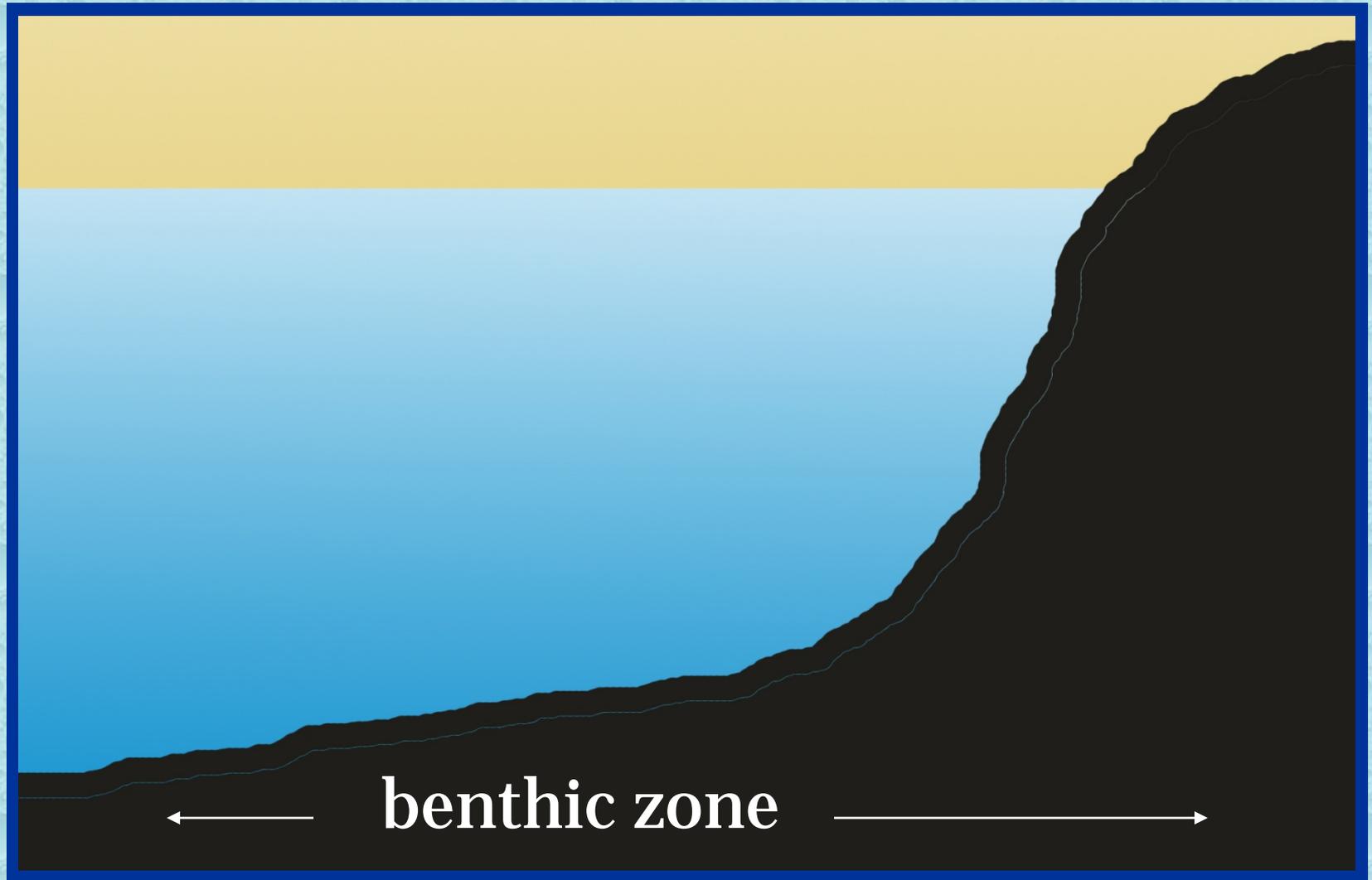
Scientists divide the ocean into two main zones:



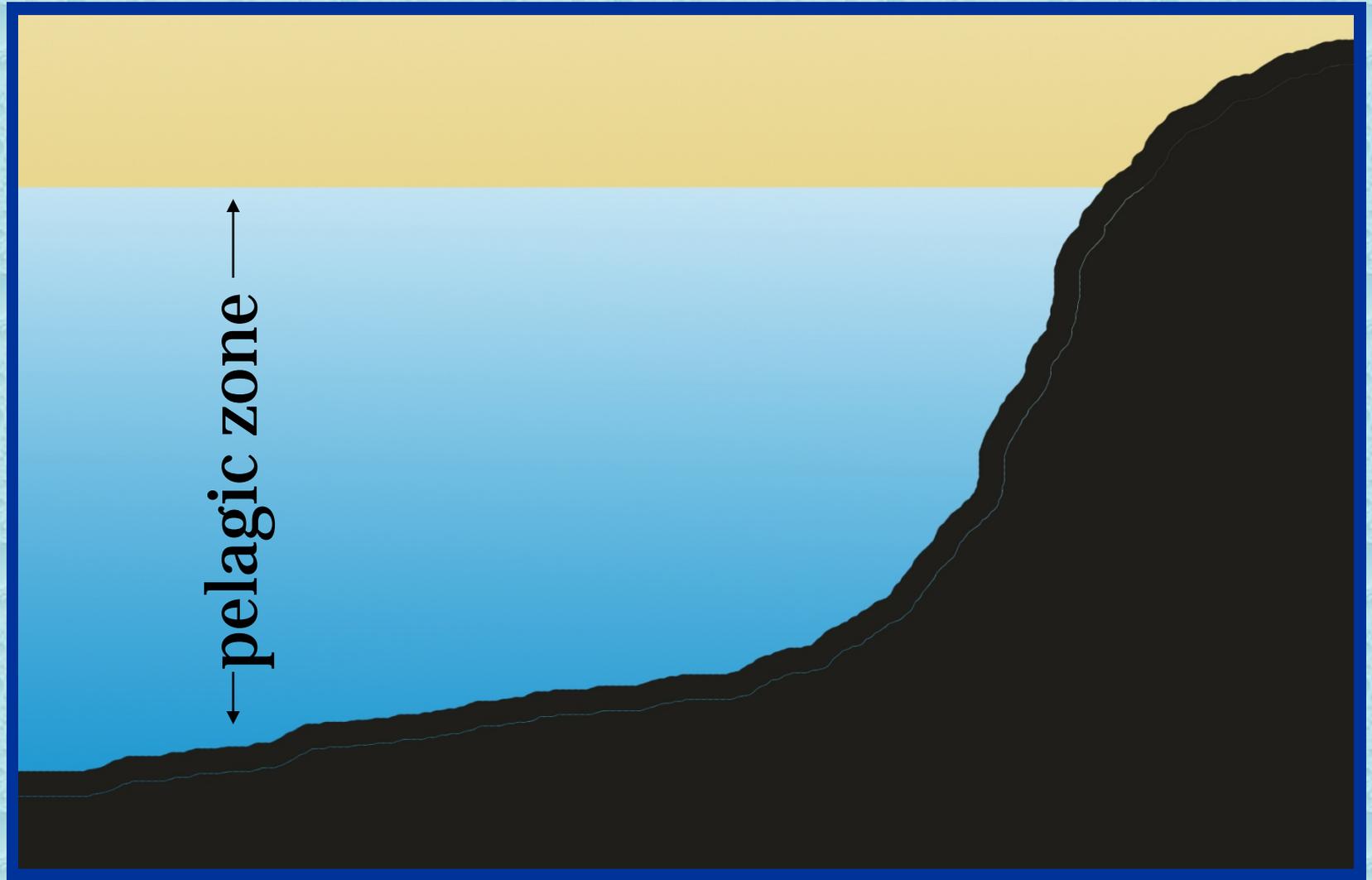
Pelagic Zone: The open ocean that is not near the coast.



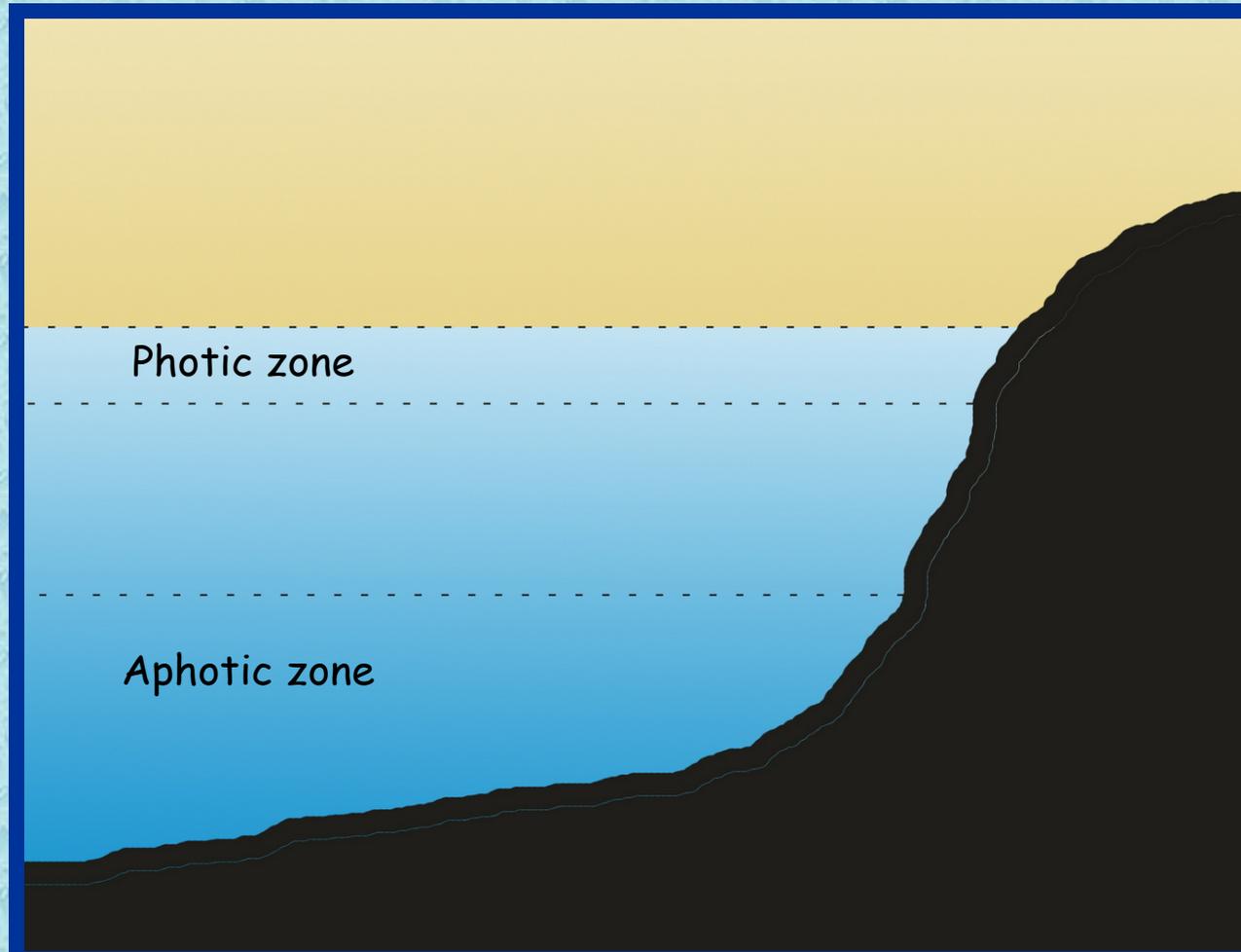
# Benthic Zone: The ocean bottom.



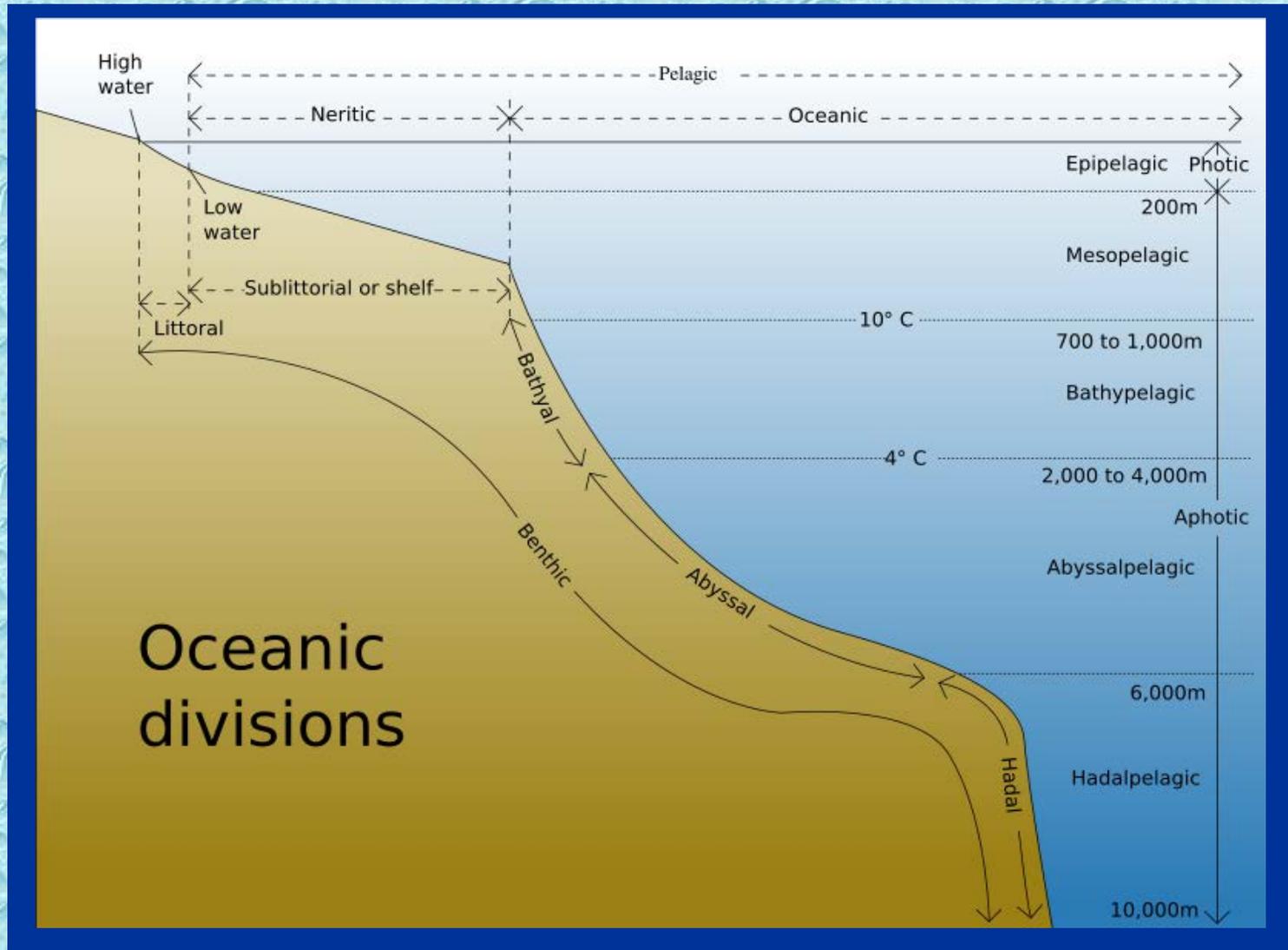
# Ocean Zones



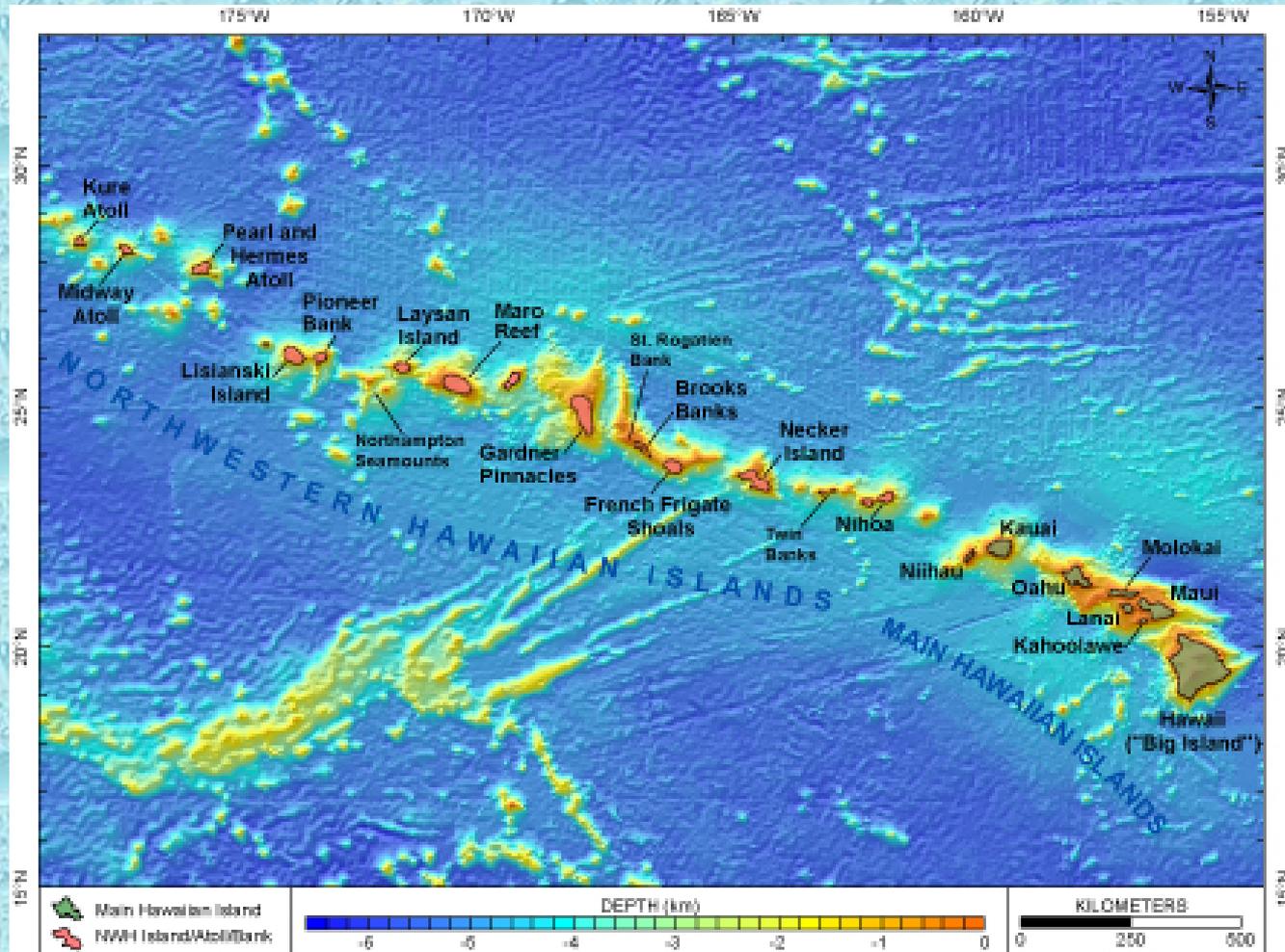
# Additional Pelagic Zones

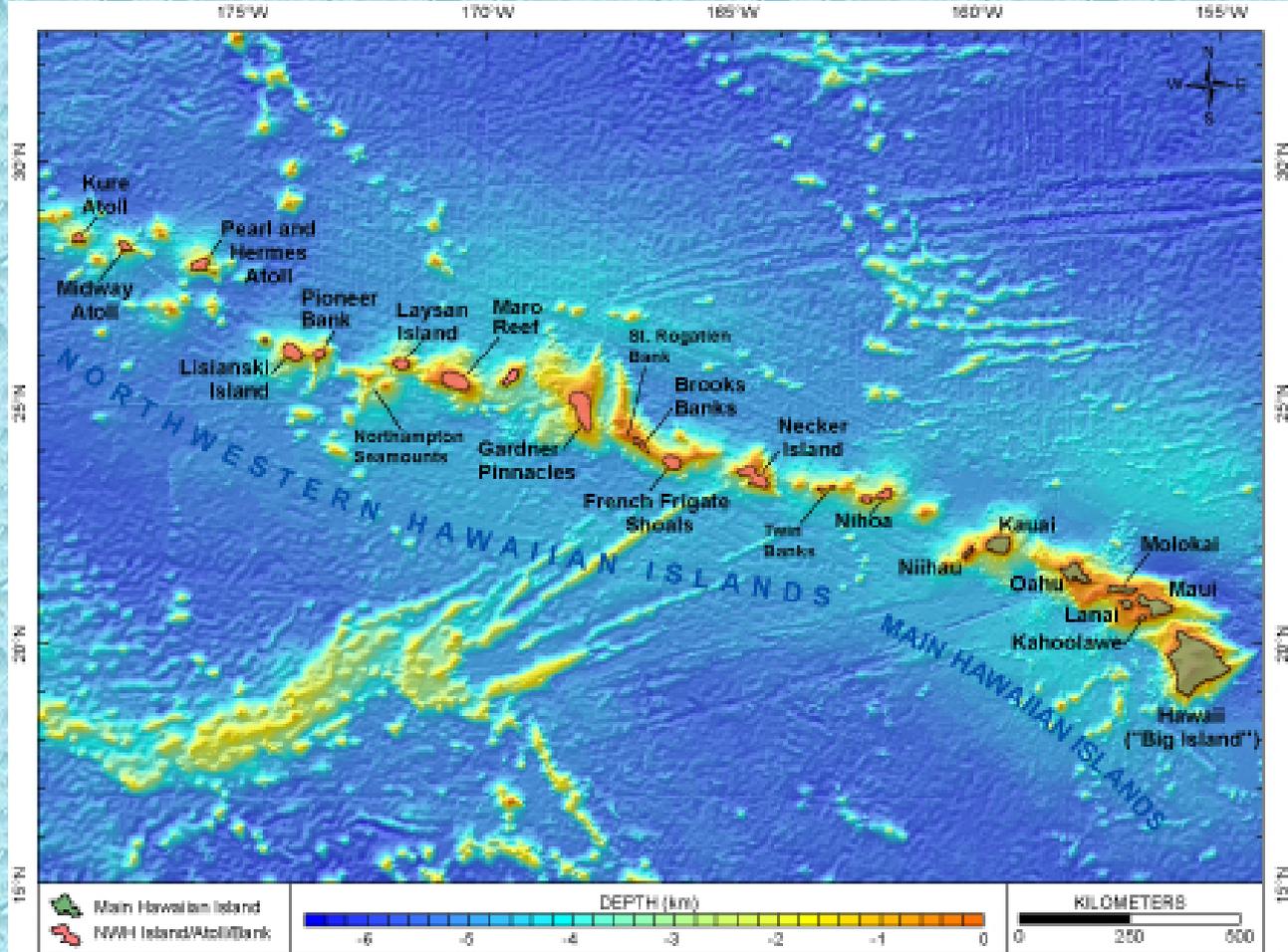


# Pelagic Zones



# The Hawaiian Islands do not have a continental shelf





**Inshore:** anything within 100 meters of shore

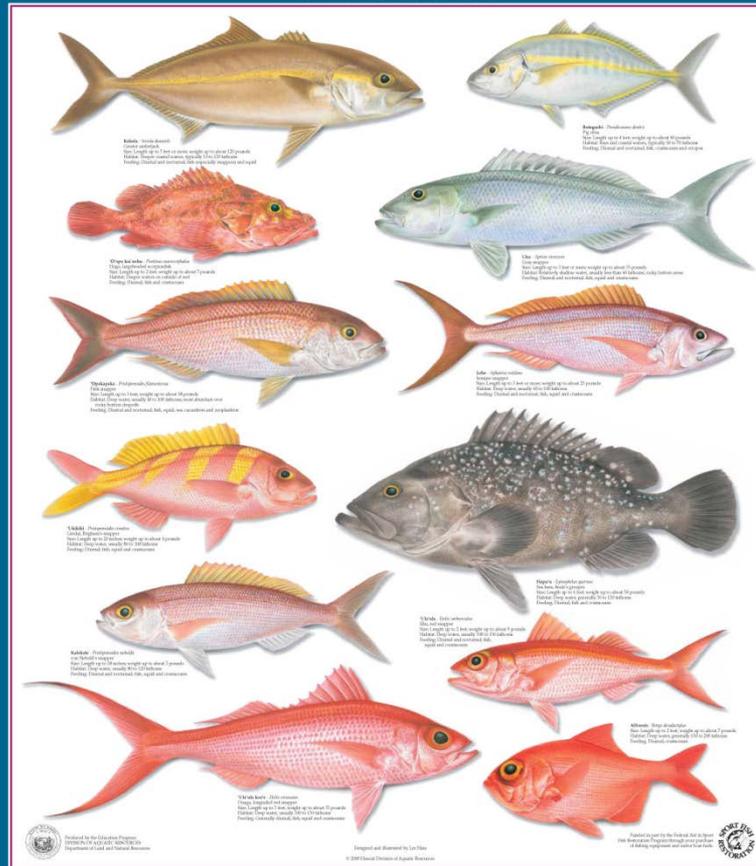
**Offshore:** anything over 500 meters from shore

# Inshore Ecosystems



# Offshore Ecosystems

## BOTTOM FISHES OF HAWAII





# Questions

1.) How much of the Earth is covered by the ocean?

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Answer: 70% of the Earth is covered by ocean water.

# Questions

2.) What are the two MAIN zones of the ocean?

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Answer:

Pelagic Zone-the open ocean not near the coast.

Benthic Zone-ocean bottom.

# Questions

3.) What are some other zones within the Pelagic Zone or Open Ocean?

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Answer:

**Photic zone**- where sunlight penetrates

**Aphotic zone**- where sunlight cannot penetrate

**Neritic zone**- over the continental shelf

**Oceanic zone**- beyond the continental shelf

# Questions

4.) What is inshore? What is offshore?

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Answer:

**Inshore:** anything within 100 meters of shore

**Offshore:** anything over 500 meters from shore