

Case Study "Fragile Balance: Investigating the Impact of Climate Change on Coral Reefs"



Introduction:

In this case study, we will explore a real-life example of the impact of climate change on ecosystems, focusing on coral reefs. Climate change poses a significant threat to the delicate balance of marine ecosystems, affecting coral reefs worldwide.

Case Study:

The Great Barrier Reef, one of the world's most biodiverse and iconic coral reef systems, has experienced significant degradation due to the impacts of climate change.

Causes of Climate Change Impact on Coral Reefs:

1. Rising Ocean Temperatures: Increasing greenhouse gas emissions have led to a rise in global temperatures, resulting in warming ocean waters that stress coral reefs.

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2. Ocean Acidification:

Consequences of Climate Change on Coral Reefs:

1. Coral Bleaching: Elevated Ocean temperatures trigger coral bleaching, resulting in widespread coral mortality and loss of habitat for countless marine species.
2. Biodiversity Loss: Coral reef ecosystems support a diverse array of marine life, and their degradation threatens the survival of many species that rely on the reef for food and shelter.
3. Economic Impacts: The decline of coral reefs affects local economies, particularly in areas dependent on tourism and fisheries, leading to income loss and job insecurity for coastal communities.

Conclusion:

The case study of Australia's

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Fragile Balance Case Study Questions:

1. What are the main causes of climate change impact on coral reefs?
2. What
3. How
4. How does
5. What actions can be taken to mitigate the impacts of climate change on coral reefs?
6. What is currently being done to address the damage caused to Great Barrier Reef? You will need to do some research here.

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