

Name: \_\_\_\_\_

Period:

Read the article "Shifting baselines, marine reserves, and Leopold's biotic ethic. Answer these essay questions in complete sentences. Explain your responses as fully as possible.

1. Examine the graphs and read the results section of the article. What does the data reveal regarding the population of Nassau grouper for both Cuba and Florida over time? Why is this data critical to know for conservation of the species?
2. Explain what shifting baselines are. How does the data reveal how younger fishermen fall into the shifting baseline syndrome for the size and catches of Nassau grouper?

3. **Define the four conservation ethics and describe the relationship between humans and the environment for each.**

4. **Who was Aldo Leopold and what was his view of the biotic ethic?**

5. **How do you think scientists can solve the conservation regarding marine protected areas?**