

# AP Biology 051 – Ecosystem Change

## Video Review Sheet

[www.bozemanscience.com/051-ecosystem-change](http://www.bozemanscience.com/051-ecosystem-change)

1. Give a short summary of his introduction piece relating to jet traffic, temperature and the short experiment:
  
2. What is climate?: \_\_\_\_\_ over a long period
  
3. Ecosystem change driven by Humans: Global Warming example:
  - a. What did the Average Temperature Map from 1950-1981 show?
  
  - b. As permafrost starts to melt, what gas is given off?
  
  - c. How is the arctic ecosystem change above an example of positive feedback?
  
  - d. Describe the water vapor increase and how it is also an example of positive feedback:
  
  - e. It is predicted that:
    - i. if there is a .5 degree Celsius over the next 100 years we could have damage to:
  
    - ii. If there is a 1-degree change, coral reefs will become \_\_\_\_\_.  
  
This means the coral will extrude the \_\_\_\_\_. Additionally \_\_\_\_\_% of the global ecosystems will become transformed. It will impact the areas near the \_\_\_\_\_ more.
  
    - iii. If there is a 2-degree change, what are the three predicted results?
  
    - iv. How many species could become extinct if there is a 3-degree change?
  
  - f. Species simply can't evolve \_\_\_\_\_ enough.

4. Ecosystem change driven by Geologic Factors: Continental Drift example:
  - a. Biogeographical changes: changes in the \_\_\_\_\_ that are living on continents.
  - b. As the continents drifted, they change their \_\_\_\_\_ and thereby their ecosystems.
  - c. What group of organisms did he use as an example?
5. Ecosystem change driven by Meteorological Factors: El Nino example:
  - a. El Nino happens every:
  - b. You get a warming of the waters in the:
  - c. What two things happen to the marine iguanas during El Nino as a result of the decrease in the algae?