

AP Biology

Chapter 54 notes Ecosystems

Ecosystem ecology emphasizes energy flow and chemical recycling

An ecosystem consists of all the organisms in a community and all the abiotic factors with which they interact

The laws of physics and chemistry apply, especially energy flow
Energy is conserved but degraded to heat during the ecosystem processes

Energy and nutrients pass from primary producers (autotrophs) to primary consumers (herbivores) to secondary consumers (carnivores). **Energy flows through an ecosystem, entering as light and exiting as heat. Nutrients cycle within the ecosystem.**

Decomposition connects all trophic levels. Detritivores, mainly bacteria and fungi recycle essential chemical elements by decomposing organic matter and returning the elements to inorganic reservoirs (soil, water, air)

Ecosystem Energy budgets:

The energy produced through photosynthesis is a tiny fraction of the solar radiation reaching the Earth, but primary production sets the spending limit for the global energy budget.

54 Ecosystems Ap Biology Guide Answers

**G. Lynn Wingard,Chris
Schneider,Gregory P. Dietl ,Damien
Fordham**



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focus on systems already impacted by anthropogenic change these studies would benefit from paleontological data through expanded temporal scales identification of baselines and an understanding of how organisms have responded to past changes However resource management decisions rarely include input from paleontologists and paleoecological research is rarely incorporated into conservation decision making We seek to bridge this research implementation gap by highlighting the application of paleoecological data to issues such as biodiversity dynamics extinction risks and resilience to perturbations among other topics We hope to foster new cross disciplinary synergies by encouraging conservation scientists and managers to collaborate with paleontologists to improve conservation decision making and by increasing awareness among paleontologists to the needs of the resource management community This Research Topic will provide a forum for both the paleontological and resource management communities to exchange ideas that will enhance restoration and conservation decision making We invite papers on conceptual advances reviews of specific topics to guide efforts in research or practice case studies of successful applications articles describing datasets with applied value and perspective papers summarizing a body of paleontological research with relevance to the resource management community Topics can include but are not limited to Responses of species communities and ecosystems to perturbations Strategies to achieve the direct integration of paleobiology and paleoecology into on ground resource management Identifying baselines and reference conditions Increasing the robustness of forecasting models through the incorporation of paleontological data Identifying key species interactions and other phenomena as indicators of impending change New methodologies analytical tools and or proxies in the application of paleontological data to conservation and restoration practice Lynn Wingard Damien Fordham and Greg Dietl have no conflicts of interest Chris Schneider has a potential conflict of interest where manuscripts pertain to stakeholders in the petroleum industry as she is an independent contractor in the Alberta Oil Sands mining area

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examples and additional review questions and exercises for each chapter

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Stephen C. Trombulak, Robert Baldwin, 2010-09-21 Hugh P Possingham Landscape scale conservation planning is coming of age In the last couple of decades conservation practitioners working at all levels of governance and all spatial scales have embraced the CARE principles of conservation planning Comprehensiveness Adequacy Representativeness and Efficiency Hundreds of papers have been written on this theme and several different kinds of software program have been developed and used around the world making conservation planning based on these principles global in its reach and influence Does this mean that all the science of conservation planning is over that the discovery phase has been replaced by an engineering phase as we move from defining the rules to implementing them in the landscape This book and the continuing growth in the literature suggest that the answer to this question is most definitely no All of applied conservation can be wrapped up into a single sentence what should be done the action in what place at what time using what mechanism and for what outcome the objective It all seems pretty simple what where when how and why However stating a problem does not mean it is easy to solve

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