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they slow down the loss of  
heat to space.

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large area and characterized  
by certain soil and climate  
conditions and particular  
assemblages of plants and  
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Flowing-Water Ecosystems -  
Rivers, streams, creeks, and  
brooks are all freshwater  
ecosystems that flow over



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the land. Organisms that live there are well adapted to the rate of flow.

Standing-Water Ecosystems - lakes and ponds are the most common standing-water ecosystems. There is usually water circulating within

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Climate Weather is the  
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atmosphere at a particular  
time and place. Climate is  
the average yearly condition  
of temperature and  
precipitation in a region.  
Climate is caused by  
latitude, winds, ocean  
currents, and the shape and

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and place. Climate is the average yearly condition of temperature and precipitation in a region. Climate is caused by latitude, winds, ocean currents, and the shape and height of land-masses.

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Climate affects ecosystems,  
because

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day condition of Earth's

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Atmosphere at a particular time and place. -comes from trapping of heat, the latitude/location, wind and ocean currents, and the final precipitation.

-Earth's temperature will remain constant due to an

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atmospheric insulating  
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maintains the biosphere's  
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particular time and place.  
Climate is the average  
yearly condition of  
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precipitation in a region.

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Joseph S., ISBN-10:

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Week of  
September 4-7 Objectives:  
Differentiate between  
weather and climate.  
Identify the factors that  
influence climate.

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Figure 4-1 38. Using Figure 4-1, describe a climate you might find at  $10^{\circ}\text{N}$  latitude.

RESPONSE: ANSWER: The climate at  $10^{\circ}\text{N}$  latitude is most likely a hot, rainy

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Climate, because this location is in the tropical zone. 39. Using Figure 4-1, explain why average temperatures decrease with increasing distance from the equator. RESPONSE:

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The ocean has absorbed a significant portion of all human-made carbon dioxide emissions. This benefits human society by moderating the rate of climate change, but also causes unprecedented changes to

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Ocean chemistry. Carbon dioxide taken up by the ocean decreases the pH of the water and leads to a suite of chemical changes collectively known as ocean acidification. The long term consequences of ocean

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acidification are not known, but are expected to result in changes to many ecosystems and the services they provide to society.

Ocean Acidification: A  
National Strategy to Meet  
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Ocean reviews the current state of knowledge, explores gaps in understanding, and identifies several key findings. Like climate change, ocean acidification is a growing global problem that will intensify with

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Communities CO2 emissions and  
has the potential to change  
marine ecosystems and affect  
benefits to society. The  
federal government has taken  
positive initial steps by  
developing a national ocean  
acidification program, but

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more information is needed to fully understand and address the threat that ocean acidification may pose to marine ecosystems and the services they provide. In addition, a global observation network of

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chemical and biological  
sensors is needed to monitor  
changes in ocean conditions  
attributable to  
acidification.

As the Gulf of Mexico  
recovers from the Deepwater

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Horizon oil spill, natural resource managers face the challenge of understanding the impacts of the spill and setting priorities for restoration work. The full value of losses resulting from the spill cannot be



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Captured, however, without consideration of changes in ecosystem services--the benefits delivered to society through natural processes. An Ecosystem Services Approach to Assessing the Impacts of the

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Deepwater Horizon Oil Spill  
in the Gulf of Mexico  
discusses the benefits and  
challenges associated with  
using an ecosystem services  
approach to damage  
assessment, describing  
potential impacts of

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response technologies, exploring the role of resilience, and offering suggestions for areas of future research. This report illustrates how this approach might be applied to coastal wetlands, fisheries,

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marine mammals, and the deep sea -- each of which provide key ecosystem services in the Gulf -- and identifies substantial differences among these case studies. The report also discusses the suite of technologies

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used in the spill response,  
including burning, skimming,  
and chemical dispersants,  
and their possible long-term  
impacts on ecosystem  
services.

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friendly approach A powerful  
framework for connecting key  
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Nutrient recycling, habitat for plants and animals, flood control, and water supply are among the many beneficial services provided by aquatic ecosystems. In making decisions about human activities, such as draining

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a wetland for a housing development, it is essential to consider both the value of the development and the value of the ecosystem services that could be lost. Despite a growing recognition of the

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importance of ecosystem  
services, their value is  
often overlooked in  
environmental decision-  
making. This report  
identifies methods for  
assigning economic value to  
ecosystem servicesâ€"even

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intangible ones" and calls for greater collaboration between ecologists and economists in such efforts.

Stream flow in freshwaters is considered a "master variable" influencing

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processes and traits from individual organisms to ecosystems. Due to this strong linkage, anthropogenic modification of flow regimes in freshwater ecosystems worldwide continues to have

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major impacts on  
populations, species,  
communities, and ecosystems  
and the many services they  
provide to humans. My  
dissertation investigated  
the impacts of flow regime  
and its variability on three



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levels of biological organization: populations, communities and ecosystems. The approach highlights links among evolutionary, community, and ecosystem ecology, while also testing basic models and

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demonstrating applied  
significance in freshwater  
conservation. At the  
population level, I  
evaluated the generality of  
the trilateral life history  
model (TLHM) for fishes - a  
trait-environment model well-

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studied at the assemblage level - finding that the TLHM adequately described major trade-offs in traits among populations in all species. Some TLHM flow-based predictions were confirmed, with periodic

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traits (high fecundity) favored at sites with greater flow seasonality and lower flow variability in two species, and equilibrium traits (large eggs) in more stable flow conditions in two species. However,

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relationships contradicting the TLHM were also found. In Chapter 3, I evaluated the effects of geographic location, scale, and sampling gear on agree with TLHM predictions using a fish community dataset from

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Louisiana. Generally, fewer than half of significant relationships supported TLHM predictions. These results suggest that, due to collinearity of hydrologic variables, effects of sampling gear, and scale of

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analysis, applying and operationalizing the predictions of the TLHM in terms of hydrology may not be straightforward. here is a continued need to match high-quality biological data with hydrologic data while

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also developing hydrologic modeling and datasets of correlated environmental variables at finer scales to match the grain of most biological sampling. Trait-environment models that are well-supported at multiple



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levels of biological organization could improve understanding of the impacts of environmental change on populations and communities and the valuable ecosystem services that they support. Chapters 4 and 5 focus on

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ecosystem services and how they are related to each other and influenced by flow regime in a large river-floodplain ecosystem - the Atchafalaya River in Louisiana. I first developed a model of denitrification

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in the Atchafalaya River. Denitrification rates ranged from 5,394 kg N y<sup>-1</sup> (3.07 kg N km<sup>-2</sup> y<sup>-1</sup>) in 1988 to 17,420 kg N y<sup>-1</sup> (9.92 kg N km<sup>-2</sup> y<sup>-1</sup>) in 1981, and rates were consistently higher in fall compared to spring.

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Total nitrate ( $\text{NO}_3^-$ )  
denitrified in the basin was  
negligible compared to total  
 $\text{NO}_3^-$  entering the GOM. If  
all N denitrified in the  
basin instead entered the  
Gulf, the hypoxic zone was  
predicted to increase only

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5.07 km<sup>2</sup> (0.06%). This negligible effect on N dynamics in the GOM agrees with other mass balance and isotopic studies in the region. Denitrification is only one of many ecosystem services provided by river-

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floodplain ecosystems. **Communities Answers Key**

Because of the overriding influence of flow regime on river systems, an understanding of flow-ecology relationships in rivers is necessary to assess potential impacts of

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management decisions. **Communities Answers Key**

However, translating complex flow-ecology relationships into stakeholder-relevant information remains a struggle. The concept of ecosystem services provides a bridge between flow-

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ecology relationships and  
stakeholder-relevant data.  
Flow-ecology relationships  
were used to explore  
complementary and trade-off  
relationships among 12  
ecosystem services and  
related variables in the



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Atchafalaya River Basin, Key  
Louisiana. Results from  
Indicators of Hydrologic  
Alteration were reduced to  
four management-relevant  
hydrologic variables using  
principal components  
analysis. Multiple linear

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Regression was used to determine flow-ecology relationships and Pearson correlation coefficients, along with regression results, were used to determine complementary and trade-off relationships

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Among ecosystem services and related variables that were induced by flow. Seven ecosystem service variables had significant flow-ecology relationships for at least one hydrologic metric. There was a single complementary

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Relationship mediated by  
flow and there were three  
such trade-off  
relationships; however,  
other trade-off and  
complementary relationships  
were not related to flow.  
These results give insight

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into potential conflicts among stakeholders, can reduce the dimensions of management decisions, and provide initial hypotheses for experimental flow modifications.

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systematic overview of a  
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understanding of the biological/ecological features of periphyton, the methodology of their study, and their application in environmental conservation. With increases in

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environmental stress, anthropogenic impacts, and the global decline in biodiversity, there is a pressing need for methods to assess and improve environmental quality that are rapid, reliable, and



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Cost-effective. Periphyton is an important component of benthic communities and plays a crucial role in the functioning of microbial food webs. Because of a number of advantages, such as a short lifecycle,

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relative immobility, more rapid responses to environmental stress and anthropogenic impact than any metazoa, ease of sampling, availability of taxonomic/molecular identification, and

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standardized methodologies  
for temporal/spatial  
comparisons, there has, in  
recent decades, been an  
increased interest in  
periphyton as a tool in  
biological conservation in  
aquatic ecosystems. Presents

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Communities that help

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Provides readers with an  
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in practice, especially the value of periphyton in enhancing environmental and ecosystem qualities  
Discusses the role of periphyton in purifying water and its effect on abiotic elements

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revolutionized by molecular  
and instrumental techniques,  
and information technology.  
Knowledge of soil  
microbiology, ecology and  
biochemistry is central to  
our understanding of

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processes and interactions  
with their environment. In a  
time of great global change  
and increased emphasis on  
biodiversity and food  
security, soil microbiology  
and ecology has become an



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