

What is a Biosphere?

An ecosystem is a system in which organisms interact with each other and with their environment.

Terrestrial Biosphere

Land - This is everything that is on land, from soil to sky.

Sea - This is everything that is under, inside, and above water.

Space - This is everything that is outside of Earth's atmosphere.



Land Use and Change

Human land use is a major factor in changing the biosphere. This includes agriculture, urbanization, and deforestation. These activities have led to a significant loss of natural habitats and biodiversity.

Human Impact

Human activities are responsible for many of the changes in the biosphere. This includes the release of greenhouse gases, which leads to global warming and climate change. These changes are affecting the biosphere in many ways, including the loss of species and the degradation of ecosystems.

Land - This is the surface area of the planet, which has been largely altered by human activities.

Sea - This is the area of the planet that is covered by water. It is also being affected by human activities, such as overfishing and pollution.

Space - This is the area of the planet that is outside of the atmosphere. It is also being affected by human activities, such as space exploration and satellite technology.

Human activities are also affecting the biosphere in many other ways, including the loss of species and the degradation of ecosystems.

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The world's climate zones are determined by the amount of solar radiation that reaches the Earth's surface. This is influenced by latitude, altitude, and other factors.

Major Climate and Plants

Climate	Location	Temperature	Plants	Animals	Human
Tropical	Equatorial region (e.g., Amazon, Congo, Indonesia)	Hot (25-30°C)	Tropical rainforest	Orangutan, toucan	High population density
Subtropical	Subtropical region (e.g., Florida, Brazil, Australia)	Warm (20-30°C)	Savanna, dry forest	Kangaroo, emu	High population density
Temperate	Temperate region (e.g., Europe, North America)	Mild (10-20°C)	Deciduous forest	Deer, rabbit	High population density
Cold	Cold region (e.g., Canada, Russia)	Cool (0-10°C)	Coniferous forest	Wolverine, moose	Low population density
Very Cold	Very cold region (e.g., Antarctica)	Very cold (<0°C)	None	None	None

The Living

Global Biodiversity

Global biodiversity is the variety of life forms on Earth. It is a measure of the number of different species of plants and animals that exist in a given area.

Interdependence in the biosphere

All organisms are interdependent. This means that they rely on each other for survival. For example, plants provide food for animals, and animals help plants to reproduce.



Major Climate

Major climate zones are determined by latitude. The equator is the warmest, and the poles are the coldest. Climate zones are important for determining the types of plants and animals that can live in a given area.

AGRICULTURE AND THE BIOSPHERE

Agriculture is a major factor in changing the biosphere. It involves the cultivation of crops and the raising of livestock. This has led to a significant loss of natural habitats and biodiversity.

Impacts of Agriculture

Impact	Description	Consequence
Land Use Change	Conversion of natural habitats to agricultural land.	Loss of biodiversity.
Water Pollution	Runoff of fertilizers and pesticides into water bodies.	Contamination of water resources.
Soil Degradation	Overuse of land leading to soil erosion and loss of fertility.	Reduced agricultural productivity.
Climate Change	Release of greenhouse gases from agricultural activities.	Global warming and sea level rise.

Agriculture is also a major source of greenhouse gases, which contribute to global warming.

Agriculture is also a major source of water pollution, which can harm aquatic life.

Agriculture is also a major source of soil degradation, which can reduce the fertility of the soil.

Agriculture is also a major source of climate change, which is affecting the biosphere in many ways.

Effects of Major Climate

- High temperatures lead to... **25%**
- that in the presence of clouds... **15%**
- that in the presence of clouds... **10%**
- that in the presence of clouds... **5%**



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