

Earth's Biosphere



Name _____

What is the Biosphere?



- _____: regions of the surface, atmosphere, and hydrosphere of the Earth occupied by living organisms.
- “Bio” is the Greek word for _____.
- “Biosphere” was a term developed by _____ Seuss, an _____ geologist and _____ I. Vernadsky, a _____ physicist.
- The biosphere describes the _____ world.
- The biosphere is about _____ million-years-old.
- The biosphere consists of _____, plants, and _____.
- The biosphere is about _____ meters (41,010 feet) thick
- All life exists between _____ meters (1,640) feet below the ocean to _____ kilometers (5.75 feet) above the ocean.
- _____ is required to maintain life on Earth.
- Plants use the sun to undergo _____.

Earth's Ecosystems



- _____: a biological community of interacting organisms and their physical environment.
- _____ are found all over the _____.
- Ecosystems can be _____ or _____.
- _____ ecosystems include _____, _____ areas (cities), and _____ - _____ areas (metropolis).
- When a _____ enters the ecosystem, a disruption can occur.
- _____ disasters, such as _____, floods, _____, or _____-made errors can destroy ecosystems.
- Ecosystems can be broken into three scales:
 - _____: small ecosystem (pond, under a rock)
 - _____: medium ecosystem (forest, lake)
 - _____: large ecosystem (rainforest, desert)

What is the Biosphere?



- **Biosphere**: regions of the surface, atmosphere, and hydrosphere of the Earth occupied by living organisms.
- “Bio” is the Greek word for **life**.
- “Biosphere” was a term developed by **Eduard** Seuss, an

English geologist and **Vladamis** I. Vernadsky, a **Russian** physicist.

- The biosphere describes the **living** world.
- The biosphere is about **3.5** million-years-old.
- The biosphere consists of **humans**, plants, and **animals**.
- The biosphere is about **12,500** meters (41,010 feet) thick
- All life exists between **500** kilometers (1,640) feet below the ocean to **6** kilometers (5.75 feet) above the ocean.
- **Sun** is required to maintain life on Earth.
- Plants use the sun to undergo **photosynthesis**.

Earth's Biomes



- **Biome**: a region on Earth that shares the same climate, plants, and animals.
- Biomes are divided into **land** (terrestrial) and **water** (aquatic) biomes.
- Every **location** in the world is part of a **biome**.

Aquatic Biomes	Terrestrial Biomes
Freshwater	Tundra
Freshwater Wetlands	Rainforest
Marine	Savanna
Coral Reef	Taiga
Estuaries	Temperate Forest
	Temperate Grasslands
	Alpine
	Chaparral
	Desert

Earth's Ecosystems



- **Ecosystem:** a biological community of interacting organisms and their physical environment.
- **Ecosystems** are found all over the **world**.
- Ecosystems can be **natural** or **man-made**.
- **Man-made** ecosystems include **farmlands**, **urban** areas (cities), and **urban-industrial** areas (metropolis).
- When a **stranger** enters the ecosystem, a disruption can occur.
- **Natural** disasters, such as **fires**, floods, **weather**, or **man-made** errors can destroy ecosystems.
- Ecosystems can be broken into three scales:
 - **Micro:** small ecosystem (pond, under a rock)
 - **Messo:** medium ecosystem (forest, lake)
 - **Biome:** large ecosystem (rainforest, desert)