

# The Biosphere

Done by Rusakov Michael



# **My presentation includes 3 parts:**

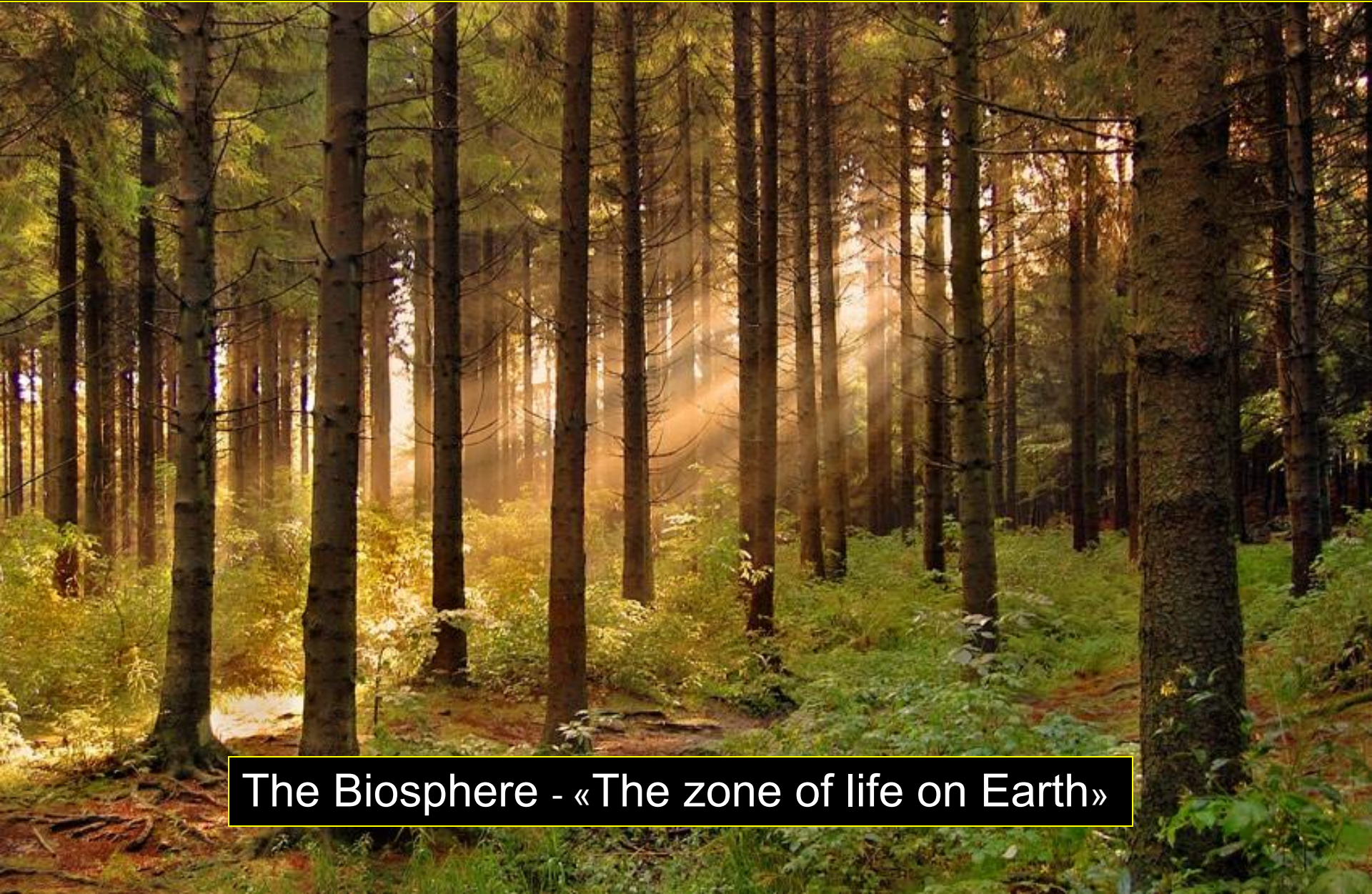


**1. What is the biosphere?**

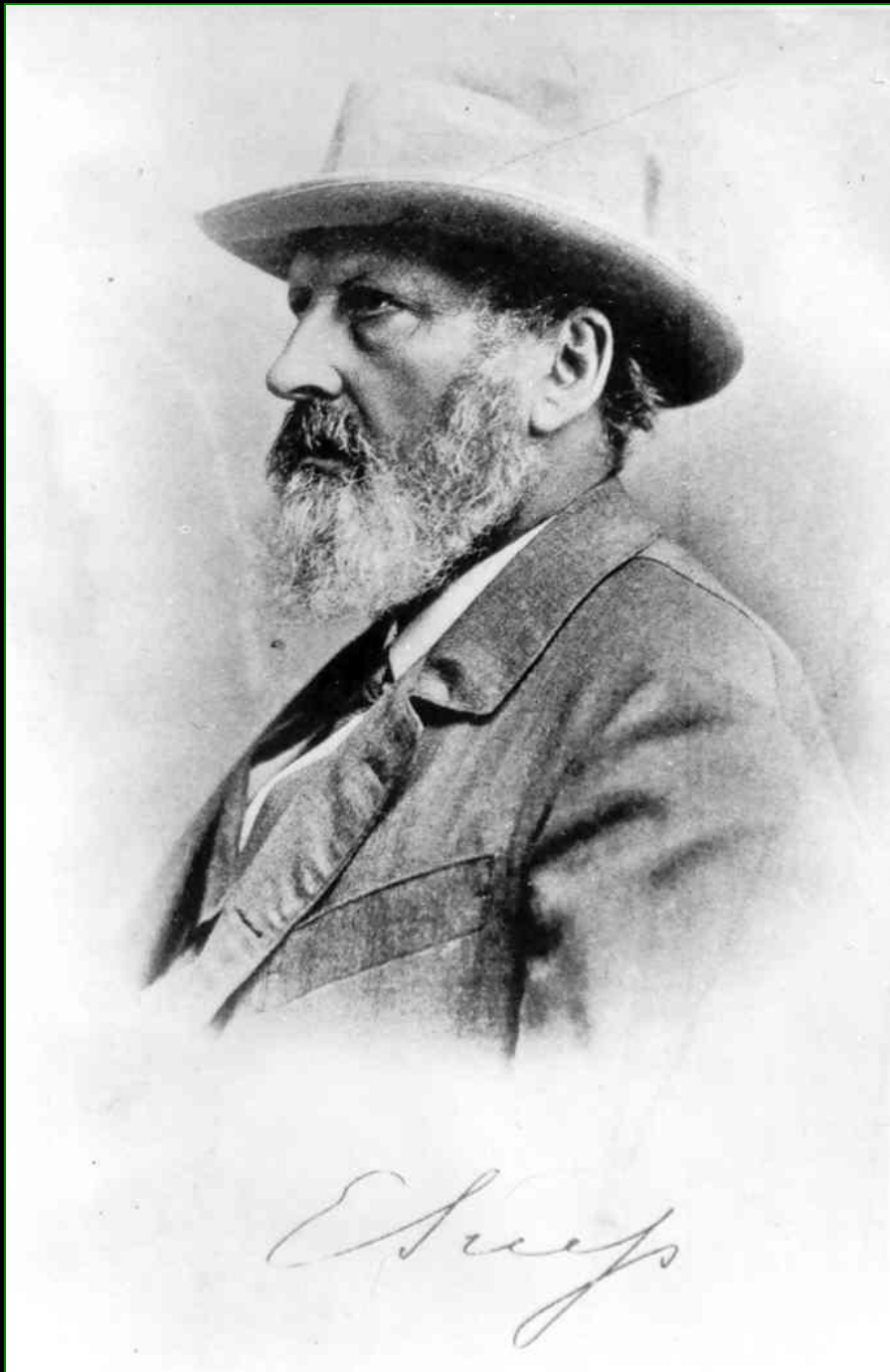
**2. The consisting of the biosphere**

**3. The boundaries of the biosphere**

The biosphere is the global sum of all ecosystems.

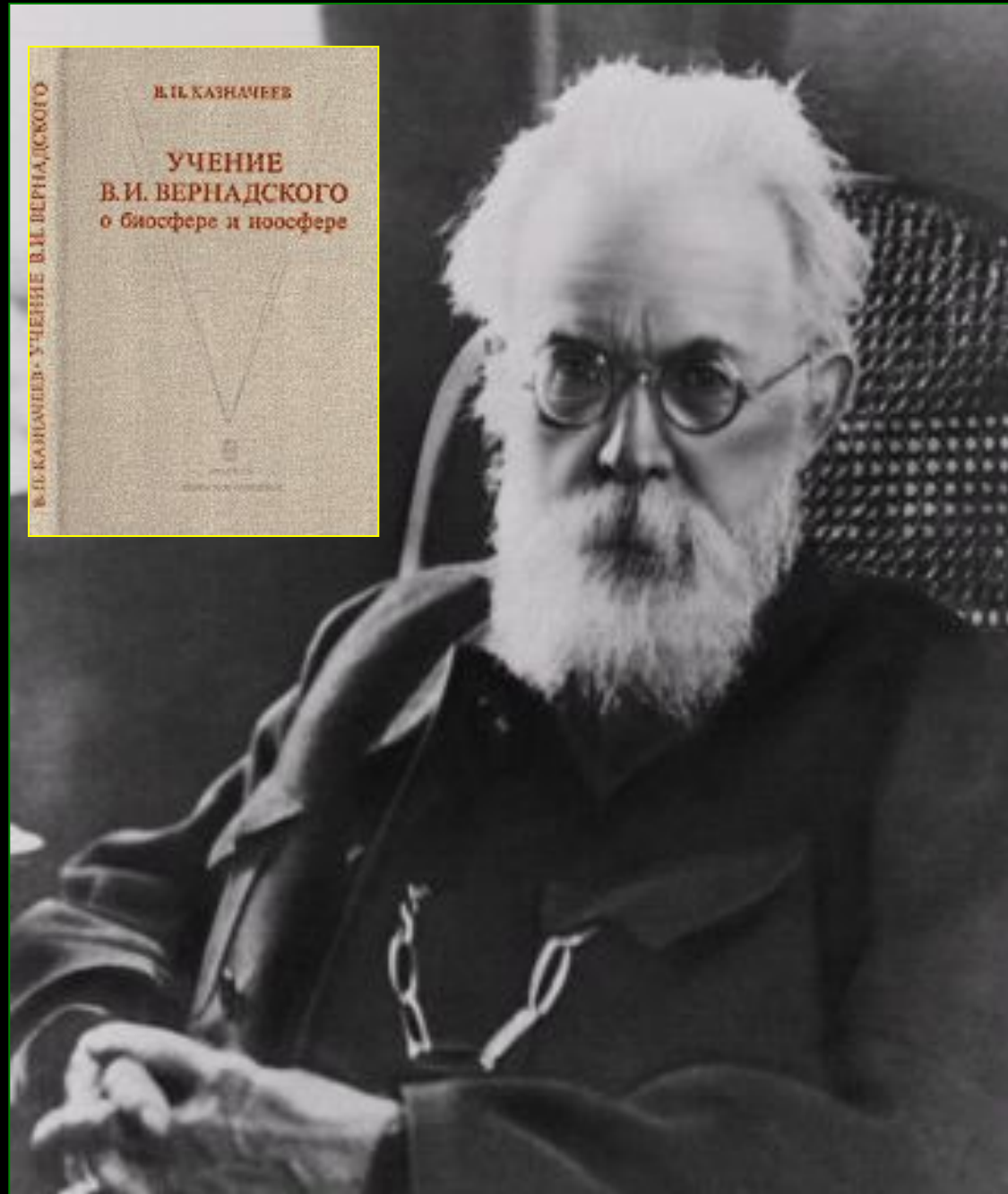


The Biosphere - «The zone of life on Earth»

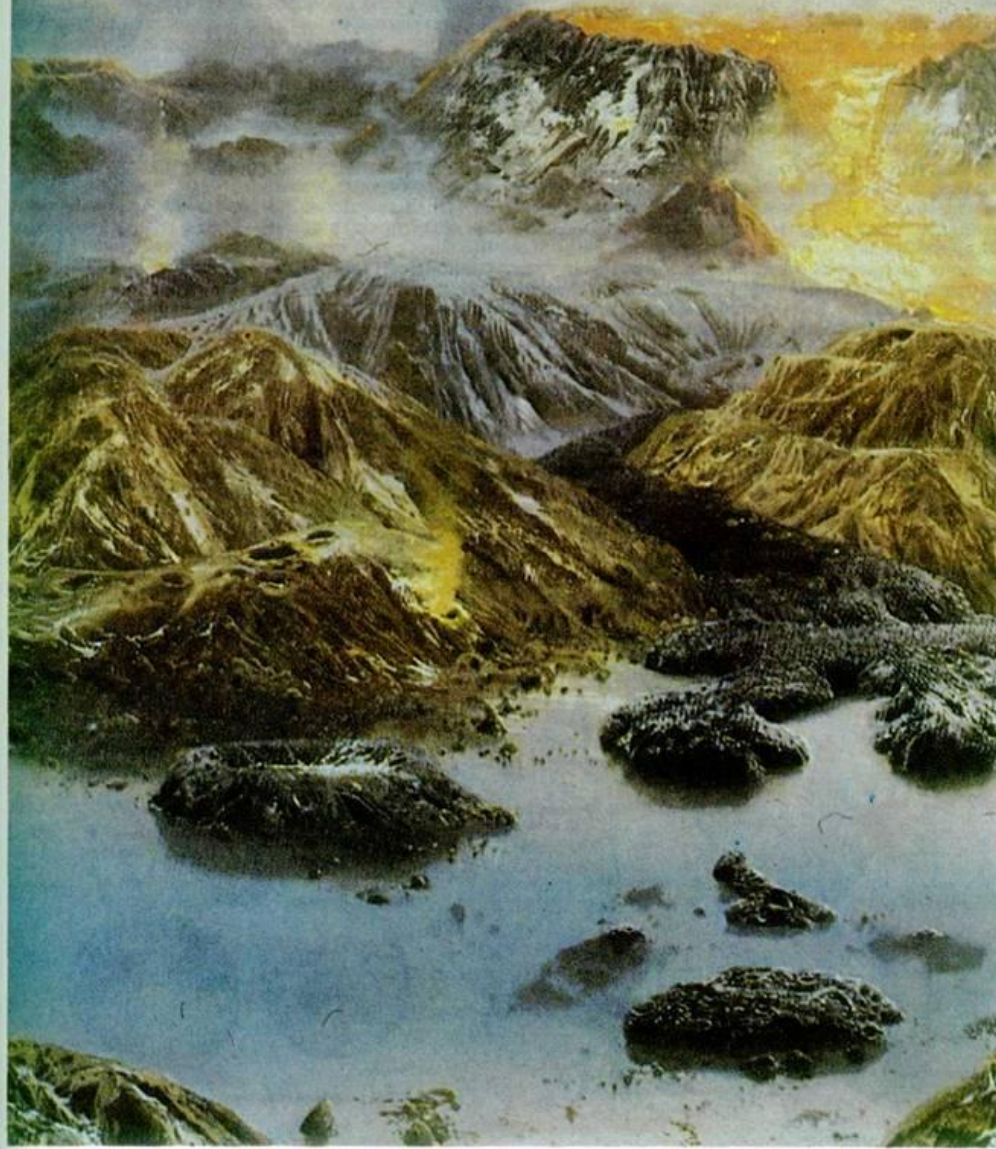


**The term "biosphere" was coined by geologist Eduard Suess in 1875, which he defined as: "The place on Earth's surface where life dwells."**

**Vladimir Ivanovich Vernadsky** is most noted for his 1926 book *The Biosphere* in which he inadvertently worked to popularize Eduard Suess' 1885 term biosphere, by hypothesizing that life is the geological force that shapes the earth.

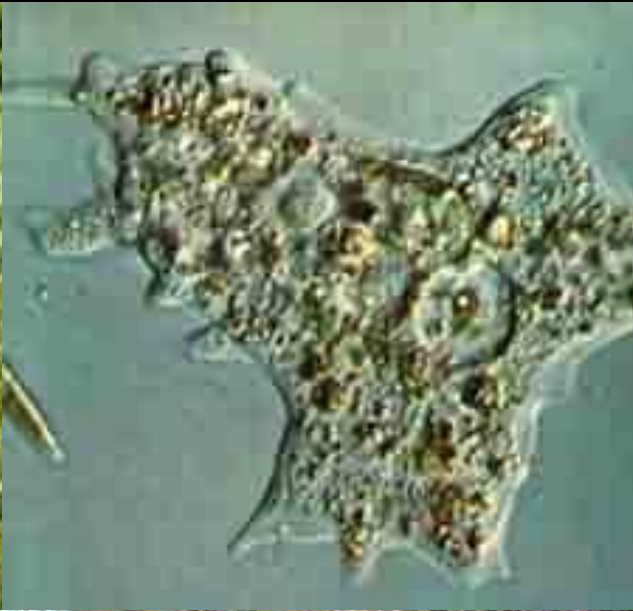


**This was the Earth in the period  
of the emergence of life on it**

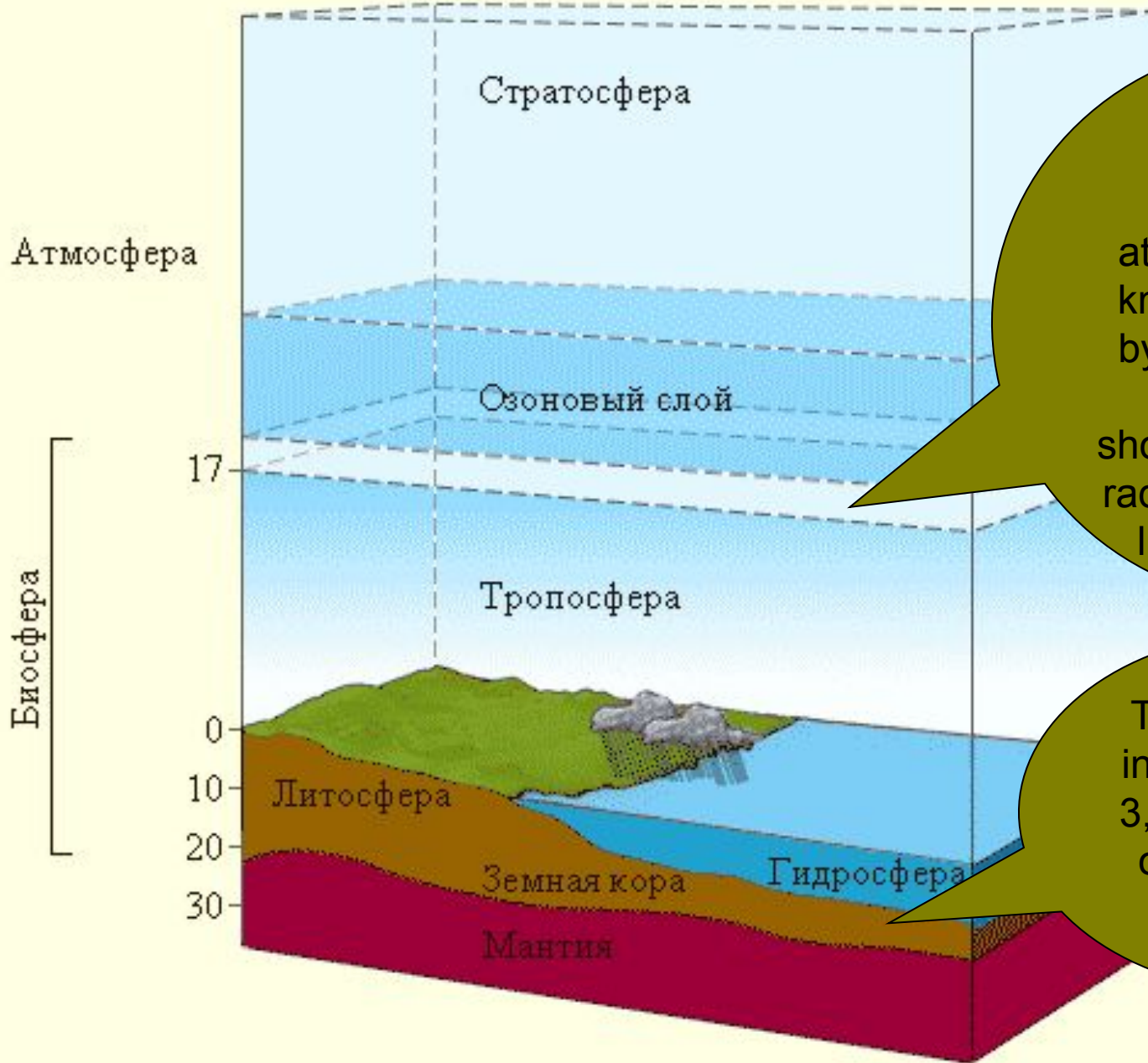


**The biosphere is postulated to have evolved, beginning with a process of biopoesis (life created naturally from non-living matter such as simple organic compounds) or biogenesis (life created from living matter), at least some 3.5 billion years ago.**

**The biosphere is the living matter of the planet represented by microorganisms, mushrooms, plants, animals and man**



# The boundaries of the biosphere of the Earth are held on the limits of the spreading of living organisms, and it means...



That the upper boundary in the atmosphere: 15-20 km. It's determined by the ozone layer, that check the short-wave ultraviolet radiation, harmful for living organisms.

The lower bound in the lithosphere: 3,5-7,5 km, where organisms don't meet anymore.



# **Conclusion:**

**The biosphere is the global sum of all ecosystems. It is envelope of the Earth inhabited by living organisms and it is under their influence.**

**The biosphere interacts with other envelopes of the Earth. For example biosphere connected with the atmosphere by means of circulation of gases.**

**And person as a resident of the biosphere has a great influence on the nature of the Earth.**

*Thank you all for listening so attentively.*