

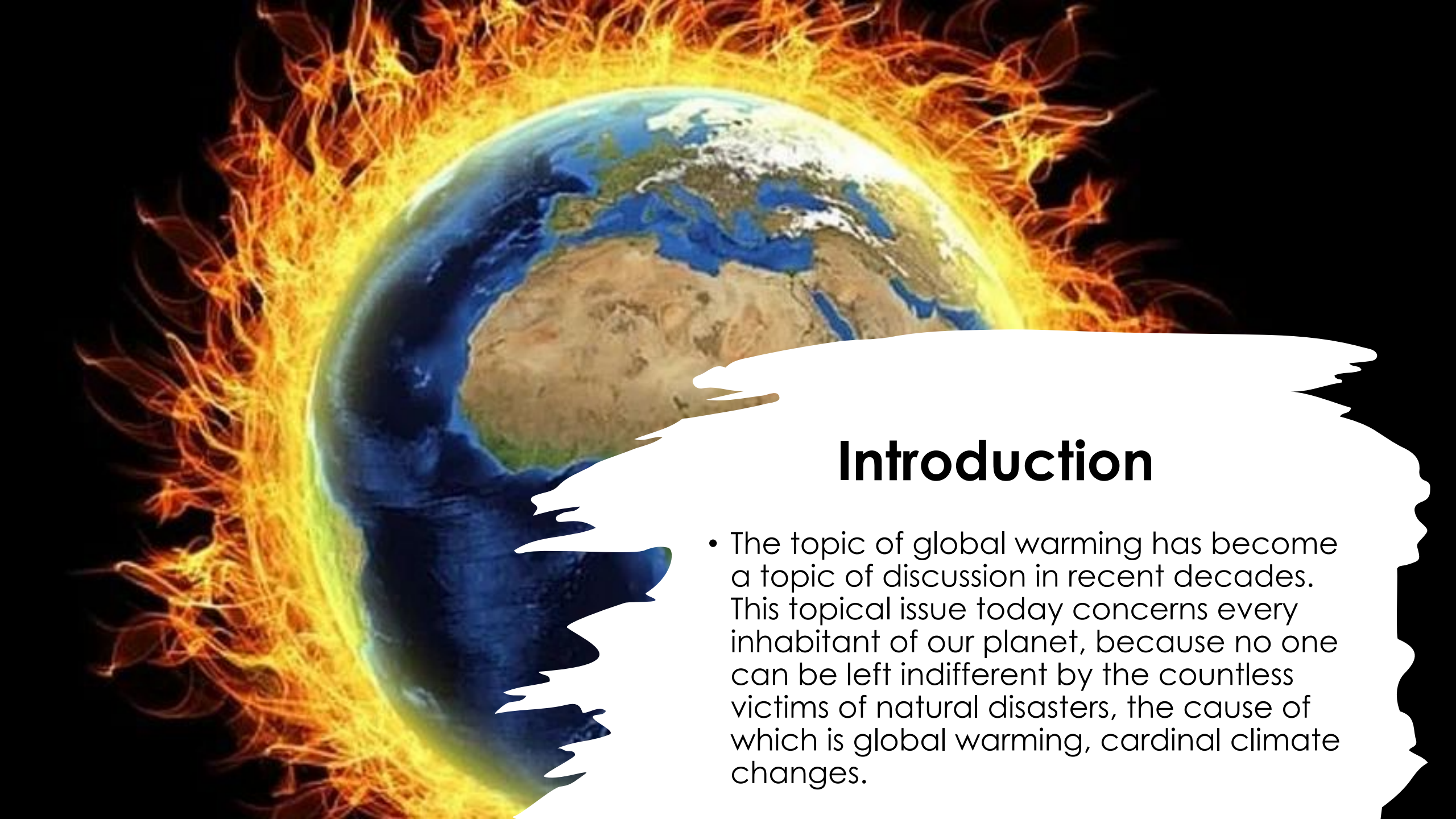


# Global warming

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## Introduction

- The topic of global warming has become a topic of discussion in recent decades. This topical issue today concerns every inhabitant of our planet, because no one can be left indifferent by the countless victims of natural disasters, the cause of which is global warming, cardinal climate changes.



- **Global warming** - is the process of a gradual increase in the average annual temperature of the Earth's atmosphere and the oceans.



# The causes of such climate changes remain unknown, however, among the main external influences:

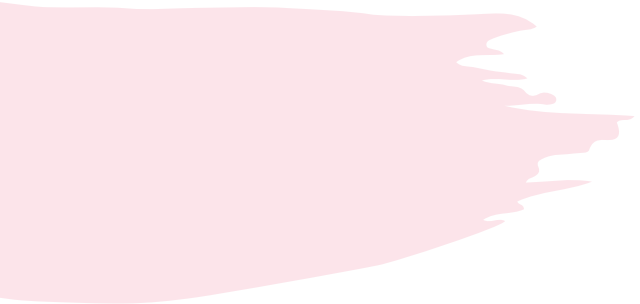
- 1) changes in the Earth's orbit
- 2) changes in solar activity
- 3) volcanic emissions
- 4) greenhouse effect



# The most widely discussed is the anthropogenic greenhouse effect

- This is what scientists call the phenomena associated with the problem of overheating of the air. Gases that are obtained from the combustion of fuel in factories, power plants and even in cars accumulate in the atmosphere and retain heat at the surface of the Earth. Therefore, the air above our planet is slowly heating up - just like in a greenhouse in hot summer.



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- The expected global warming of the climate will cause an increase in ocean level by **0.5 m** by **2050** and by **1-1.5 m** by **2100**. With a simultaneous increase in the temperature of the surface layer of the ocean to 2.5 degrees by the end of the 21st century. The main reasons are: melting of continental and mountain glaciers, sea ice, thermal expansion of the ocean, etc. Currently, sea level rise reaches about 25 cm per century. All this, ultimately, will lead to the emergence of complex problems: flooding of the coastal plains, deterioration of the water supply of coastal cities, etc.



- **Ways to prevent global warming are**
- breeding new plant varieties and tree species whose leaves have a higher albedo, painting roofs white, installing mirrors in near-Earth orbit, sheltering glaciers from sunlight, etc. production of solar panels, wind turbines, construction of tidal power plants, hydroelectric power plants, nuclear power plants. The use of human body heat to heat the premises, the use of sunlight to prevent the appearance of ice on the roads, hybrid cars are produced