



ASTRONOMICAL FACTORS AND GEOLOGICAL PROCESSES. THEIR IMPACT ON EARTH AND INFLUENCE ON CLIMATE CHANGE

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Project “The Citizen of the Future Facing Climatic Change (COFFE_E)”

2020-1-RO01-KA229-080194

**LTTA in Panevėžys, Lithuania
4th-8th October 2021**



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- Key words, phrases
- Sources and causes of pollution (astronomical and geological)
- Toxic pollutants emitted into the environment
- How to reduce the amount of environment pollution?
- Conclusion
- International Agreements



Key words and phrases

- Climate change
- Astronomy
- Pollution
- Geology
- Volcanoes
- Deforestation
- Erosions

Sources and causes of pollution

ASTRONOMICAL

As astronomers look out to the universe, they use planet Earth as an important reference point. This has created a growing relationship between astronomy and the evolving study of climate change.



Sources and causes of pollution

GEOLOGICAL

Volcanoes. During major explosive eruptions huge amounts of volcanic gas and ash are injected into the atmosphere. Injected ash has some impact on climate change.



Sources and causes of pollution

GEOLOGICAL

Deforestation.

When trees are cut down and burned or allowed to rot, their stored carbon is released into the air as carbon dioxide.



Sources and causes of pollution

GEOLOGICAL

Erosions

The effects of soil erosion led to increased pollution and sedimentation in rivers, clogging these waterways and causing declines in fish and other species.





Toxic pollutants emitted into the environment

To assess the carbon footprint of astronomical institutions, scientists added up their carbon dioxide emissions for a single year (2018) and found that about 18 tons of carbon dioxide per scientist are used just for research activities.



How to reduce the amount of environment pollution?

- Plant more trees
- Invest in renewable energy
- Improve farming and encourage vegan diets





Conclusion

Climate change is highly impacted by humans and nature. If we don't stop it, we'll have to face the consequences.





International Agreement



Paris **Climate** Agreement



When the stars align,
and we're met with a sign,
we can only pray,
that it's not too late to save
Earth today!

