

## **clouds. Aspects of their origin, development and impact**

*Giorgi Katcharava*

E-mail: giorgi.katcharava301@ens.tsu.edu.ge

Department of Geography, Faculty of Exact and Natural Sciences

Ivane Javakhishvili Tbilisi State University

3, I. Chavchavadze Ave., Tbilisi, 0179, Georgia

The paper discusses the situations of cloud formation, presents an analysis of their formation, development and classification, and most importantly discusses the ways of influencing clouds. Clouds determine the weather regime and the nature of its change, which is why they are one of the most important climate-forming factors on the Earth's surface.

In the name of clouds, there is often a word or a prefix that tells about their internal structure. For example, the prefix Strato refers to flat, stratiform clouds; Cumulo refers to clouds that are vertically elongated like towers, and nimbus refers to clouds that give precipitation, etc.

The paper focuses on the cumulonimbus cloud, since these clouds can occupy all three layers at the same time. They are particularly dangerous because these types of clouds can produce hail that destroys agricultural fields, infrastructure, and socio-economically harms the population. The paper discusses the methods, techniques, categories of dangerous hail-forming clouds and ways of dealing with them.