

# Republic of North Macedonia

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## **Organization and Number of Staff:**

Ministry of Environment and Physical Planning, Staff - CC and DCC

## **Funding by:**

Ministry of Environment and Physical Planning

## **Cooperating Organizations/Individuals:**

Ministry of Education and Science, Faculty of Civil Engineering, Faculty of Forestry (University "St. Cyril and Methodius, Skopje), Peace Corps

## **GLOBE Schools (what types, how many):**

Until now, we have included 33 schools, 13 secondary schools and 19 primary schools, 1 kindergarten, 97 GLOBE observers.

## **GLOBE Areas you and schools focus on:**

Atmosphere, Phenology, Hydrosphere, Pedosphere and GLOBE at night.

## **Number of Schools Reporting Data over Past Year:**

16 schools

## **Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):**

### **1. Education**

In some schools, teachers use the GLOBE data and previous measurement results in other projects that are implemented together with **international schools under the cooperation with the ERASMUS+ program**, and this way the data gains more value and recognition.

From the previous year where one day training was organized, this year we had a more in-depth explanatory of the protocols and the teachers that had their doubts all cleared up. It can be seen also from the positive numbers where we got an increase in the schools that are reporting from 11 to 16.

The benefits that we are seeing is that schools started to participate in the annual campaigns with their own projects. They took active participation in the Water body challenge and the Phenology

campaign. Also, the teachers and students started using the GLOBE experience to participate in international conferences and competitions.

## 2. Science

**New equipment, instruments and chemicals** were obtained from the state budget by the Ministry of Environment and Physical planning necessary for effective implementation of activities and trainings for the professors and students.

The procurement also involved a **three-day training for teachers** involved or wanting to be involved within the program.



## 3. Community

We organized a **three-day theoretical and practical training** for all the protocols including GLOBE at night where we had around 60 participants from 20 schools.



GLOBE practical training for teachers

## 4. Technology

Students in their research often use mobile phones with various applications and tools to develop skills such as communication, archiving, photography, change tracking, computation and more. The Turn on the Night Kit from Laser Classroom is also used to implement one of the protocols.

## 5. Communications

The GLOBE Program in North Macedonia now has a social media page on Facebook where news, updates and accomplishments are posted for the wider public eye.

<https://www.facebook.com/profile.php?id=100083451606568>

We are also active through a **Viber group with all the GLOBE schools in North Macedonia**. They receive regular updates on activities and campaigns through the group and through regular e-mail communication.

## Plans and Ideas for Next Year:

For the following 2023 we hope to continue the financial support and obtain new equipment preferably for new protocols (such as for surface temperature) to the schools and organize an advanced teacher training and/or organize GLOBE student games. We intend to become more proactive in expanding and delivering information and activities that can be useful to the schools. As a Ministry our intention is to start organizing webinars for the teachers that have some trouble entering data or if they need some other technical help navigating the web page and the applications.

We hope at least one school to participate in testing the microplastic monitoring protocol proposed by the team of Italy.

Furthermore, one school is in the process of conducting a project for measuring aerosols (a first) and the night sky visibility.