

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)

GLOBE Schools (what types, how many):

Until now, we have included 61 schools, 16 secondary schools and 44 primary schools, 1 kindergarten and 103 globe observers.

GLOBE Areas you and schools focus on:

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

Number of Schools Reporting Data over Past Year:

21 schools

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

1. Education

This year, we are organizing a three-day introductory training on the GLOBE protocols for new teachers, with 54 newly registered participants. This training will run from May 20–22, 2024.

From an educational point of view, this year we had the GLOBE program approved as a teaching program in the sixth grade with the [Constellations and Light Pollution](#) educational curriculum. This program is available online for any teacher that wants to implement it.

Participation at national events

On March 29, 2024, at the invitation of Eco-Logic, the National Coordinator along with two GLOBE trainers from Orde Chopela Secondary School, presented the work of the GLOBE Program through practical examples in Kočani at the panel discussion “Why citizen science in education?”

Participation at international events

On March 6–7, the following GLOBE schools presented their work the Virtual Student Conference for the GLOBE Europe and Eurasia region: OU "Steve Naumov" - Bitola, OU "Petar Pop Arsov" - Skopje, OU "St. Cyril and Methodius" - Bitola, OOU "Dimitar Miladinov" - Skopje, SOU "Goce Delchev" Valandovo and SOU "Naum Naumovski Borce" - Probishtip.

We are particularly proud of OU "St. Kiril i Metodij" - Bitola, which won an award for their video story, and Secondary School "Goce Delchev" - Valandovo, which received an award in the "Song" category. Both schools were awarded cash prizes for their participation.



On April 22, students from elementary school St. Cyril and Methodius in Bitola attended the GLOBE conference in Melnik, Czech Republic, in celebration of Earth Day. They had the honor of presenting their project to Dr. Tony Murphy, Director of the GLOBE Office, receiving high praise. Special thanks go to mentors Kristina Polizovska and Elizabeta Karovska. This opportunity was made possible with the support of the Ministry of Environment and Spatial Planning.



The benefits that we are seeing are numerous as this program is implemented in competitions, presentations, experiments where teachers and their students apply for. Teachers are integrating GLOBE data into other projects in collaboration with international schools through the ERASMUS+ program.

2. Science

New equipment, instruments and chemicals are obtained with support from the Ministry of Environment and Physical Planning and additional funding from the U.S. Embassy. This equipment is essential for the effective implementation of GLOBE activities and trainings.

3. Community

On March 21, 2024, UNICEF MK and the Ministry of Environment and Physical Planning organized an event on Climate Change Education. GLOBE students from SOU "Orde Chopela" Prilep, SOU "Goce

Delchev" Valandovo, OOU "Dimitar Miladinov" - Skopje, and OOU "Goce Delchev" from Dolni Disan, presented protocols for pedosphere, hydrosphere, atmosphere and biosphere. Various environmental organizations also participated, showcasing tools and practices for experiential learning.



Education for Climate Change - event

4. Technology

Students frequently use mobile phones and applications in their research to develop skills in communication, archiving, photography, tracking changes, and calculations. Additionally, the Turn on the Night Kit from Laser Classroom supports protocol implementation.

5. Communications

GLOBE North Macedonia now has a Facebook page to share updates and accomplishments with the large public: [Facebook: GLOBE North Macedonia](#)

We also maintain active communication with all GLOBE schools in North Macedonia via email as well as a Viber group, where we post regular updates on activities and campaigns. A new standalone website, independent from the Ministry's website, is under construction that will enable a more simplified and faster access to GLOBE program information and data.

Plans and Ideas for Next Year:

For 2025, North Macedonia will participate in the ERASMUS+ project Climate Learning through Investigation and Mapping of Extremes and Beyond, in collaboration with Czechia and Estonia.

The Ministry plans to continue supporting the program both financially and administratively in 2025. Plans for 2025 include additional teacher training, securing more equipment, and, if funding permits, organizing a national GLOBE contest for students. We also aim to foster connections between schools in North Macedonia and international GLOBE schools, promoting cross-border collaboration in the upcoming year.



ГЛОБАЛНО УЧЕЊЕ И НАБЉУДУВАЊЕ ВО ПОЛЗА НА ЖИВОТНАТА СРЕДИНА