

# Ukraine

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

The National Ecological and Natural Science Center of the Ministry of Education and Science of Ukraine is a leading educational institution in the field of ecology, biology and natural science in Ukraine, a component of the extracurricular education system for gifted and motivated students. NENC has also been the national coordinator of the GLOBE program in Ukraine since 1999. GLOBE is part of the national program of integration into the European and global educational space.

The coordination office of GLOBE in Ukraine employs: a program coordinator and 2 representatives of the coordinator, however, the center has the opportunity to involve other people during the organization of events or competitions.

## **Funding by:**

Ministry of Education and Science of Ukraine

## **Cooperating Organizations/Individuals:**

The Ministry of Education and Science of Ukraine, the Ministry of Environmental Protection and Natural Resources of Ukraine, the Ukrainian Hydrometeorological Center, the State Space Agency of Ukraine, the Palladin Institute of Biochemistry of the National Academy of Sciences of Ukraine, the Institute of Botany named after Academician of Kholodny National Academy of Sciences of Ukraine, Taras Shevchenko Kyiv National University, Kyiv-Mohyla Academy National University, public organizations, etc.

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

**679 schools and educational institutions are registered** on the website, in connection with the fact that on 24.2.2022 a terrorist country occupied the territories of Ukraine and military operations are currently continuing, there are about 20 active participating schools as of November, participation in the Program in the last 5 months GLOBE is becoming more active. The GLOBE network in Ukraine

includes not only institutions of general secondary education, but also institutions of extracurricular education.

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

The **most popular areas** among Ukrainian GLOBE students are:

- **Soil:** Soil moisture by gravimetry, soil moisture by SMAP;
- **Atmosphere:** air temperature, barometric pressure, cloud observations, precipitation, relative humidity, snow cover, surface temperature;
- **Phenology:** (GreenUp/GreenDown), tree biometry

Some teachers conducted measurements of hydrology (dissolved oxygen, nitrates, transparencies, water pH, water temperature) and land cover.

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

16

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

#### **1. Education**

We registered new GLOBE teachers, provided them with training support We added new schools to the existing accounts of trained GLOBE teachers, as teachers moved across the territory of Ukraine to safer regions. We also provided assistance to GLOBE schools.

#### **2. Science**

25 teachers are registered in the GLOBE Program. Scientific data were collected and entered on the site: **37 teachers and students conducted 61517 observations in phenology, atmosphere, climate, land cover.**

Teachers and students from Ukraine took an active part in the Phenological Campaign (Spring-Autumn). As part of the autumn phenology campaign, we held the All-Ukrainian **photo contest "Ukraine Yabluneva 2023" and the annual "GLOBE Calendar 2024" contest**, the jury is currently working and the results are being summarized.

#### **3. Community**

25 new teachers were involved in the GLOBE Program

#### **4. Technology**

During this period, 16 schools contributed scientific data

#### **5. Communications**

There are constant consultations and clarifications for community members, we keep people informed about news and events, for this we created the **GLOBE community in Viber**. We introduce news about the program through **our website [www.nenc.gov.ua/globe](http://www.nenc.gov.ua/globe)**, where information is regularly covered - about webinars, zoom conferences, regional meetings, etc., the website also covers information about competitions held by NENC, in within the framework of the international program

### **Plans and Ideas for Next Year:**

NENC is preparing an **online meeting of GLOBE Ukraine teachers in December 2023** to share experiences (practical skills of education seekers, plans for the new academic year). The results of the European regional meeting in Riga will also be summarized (deputy coordinator Ilona Mikhalchuk's report). In the new academic year, we plan to **participate in the European phenological campaign** (Spring-Autumn).

On the occasion of the **25th anniversary of the GLOBE program** in Ukraine in 2024,

we plan **to hold the following events:**

- GLOBE Marathon 2024;
- GLOBE Games 2024;
- Seminars and trainings for teachers (once every 2 months).

As part of the European phenological program, we will hold an **All-Ukrainian online photo contest** (Spring-Autumn).

Participation in other GLOBE events. Translation of GLOBE materials for teachers.

Attract new teachers and schools to the GLOBE Program.