








Introduction to GLOBE


Вступ до програми GLOBE е-тренінг






THE GLOBE PROGRAM

ENGLISH 





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Protocol
eTraining



Get Trained

GLOBE offers trainings around the world. In order to provide high-quality data to the scientific community, teachers are trained in GLOBE data-collection procedures. GLOBE protocols are written and reviewed by scientists.



Home > Get Trained > Protocol eTraining



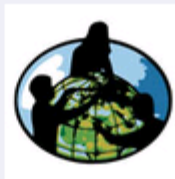
Protocol eTraining

Atmosphere

Biosphere

Protocol eTraining

To enter GLOBE data on this website or through the GLOBE data entry app, GLOBE users must complete the necessary training either by attending a [GLOBE workshop](#) or by completing the required online eTraining modules and assessment tests in this section. Please review the [eTraining Requirements](#) to learn which modules are required to become a trained GLOBE teacher or GLOBE Observer. Once your training



INTRODUCTION TO GLOBE

The "Introduction to GLOBE" module provides an overview of The GLOBE Program and how various roles, such as teachers and scientists, are involved in the program. Required for all new members.

Download Module

Assessment Test

Test not
completed



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Protocol eTraining Assessment Test

Intro

Click th

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luck!



Would you like to resume where you left off?

Yes

No

Start Quiz



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Protocol eTraining Assessment Test

Introduction to GLOBE Module

Click the "Start Quiz" button to begin. Good luck!

[Start Quiz](#)



THE GLOBE PROGRAM

Protocol eTraining Assessment Test

Виберіть правдиве твердження про GLOBE дані

What is true about GLOBE data?

- ☐ It can be used by students in their own investigations
Вони можуть використовуватись школярами в їхніх власних спостереженнях
- ☐ It provides important information for research scientists
Вони забезпечують важливу інформацію для наукових досліджень
- ☐ All protocols require the use of expensive scientific equipment
- ☒ Both A and B only **А та В**
- ☐ A, B and C

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The GLOBE database contains База даних GLOBE містить

- ☒ More than a hundred million environmental measurements.
Більше ніж сто мільйонів вимірів
- ☐ About a million environmental measurements from about 30 countries.
- ☐ About 10,000 environmental measurements taken by about 100 schools.

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Which of the following is another term for Earth's Life?

Який інший термін поняття "Земне життя"?

☐ Atmosphere

☐ Lithosphere

☒ Biosphere **Біосфера**

☐ Hydrosphere

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

In the GLOBE Data Visualization System, data can be accessed and visualized as:

В системі візуалізації GLOBE дані можуть бути представлені:

- ☐ Tables таблиці
- ☐ Graphs графіки
- ☐ Maps карти
- ☐ A and B only
- ☒ A, B, and C A, B, C

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

What word does the GLOBE program use to describe its standardised data collection procedures?

- ☐ Polygraphs
- ☒ Protocols
- ☐ Pedosphere
- ☐ POW- Place-based data Observation-Wise

Яке слово використовується у програмі GLOBE для опису стандартної процедури збору даних?

Протокол

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If you were going to conduct a hydrology protocol, what part of the Earth system would you be collecting data?

- ☐ Air
- ☐ Life
- ☒ Water Вода
- ☐ Soil

Якщо ви працюєте з протоколом Гідрологія, про яку частину Земної системи ви збираєте дані?



Що з переліченого забезпечує можливість школярам порівнювати власні дані з даними інших колекторів?

Which of the following is an important part of the way students ensure their data is comparable with data collected by others?

- ☐ They follow specific measurement procedures called protocols.
Використання специфічної процедури вимірювання - протоколів
- ☐ They locate their measurements in space and time.
Фіксація вимірів у часі і просторі
- ☐ They use instruments and materials with known characteristics.
Використання інструментів та матеріалів з відомими характеристиками
- ☐ A and B only
- ☒ A, B and C A, B, C

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

All GLOBE protocols require sophisticated expensive equipment, because of the need to collect research quality, accurate data for scientists.

☐ True

☒ False

Всі протоколи GLOBE потребують надто дорогого обладнання тому, що вони повинні забезпечити точність та якість дослідження для науковців.

Ні, це неправда

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

Which of the following play an important role in the GLOBE Program?

Що з переліченого відіграє головну роль в програмі?

- ☐ Scientists **Вчені**
- ☐ Trainers and Master Trainers **Тренери**
- ☐ GLOBE Alumni **Випускники**
- ☐ Teachers and students **Вчителі та школярі**
- ☐ A and B only
- ☒ A, B, C and D **A, B, C, D**

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

У якому масштабі відбуваються Земні процеси?

At what spatial scale do Earth processes occur?

- ☐ Only at the global scale
- ☒ At many spatial scales

У різних масштабах
- ☐ Only at the scale we can determine using our eyes

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How fast do changes in the Earth system, for instance, Earth's climate, take place?

З якою швидкістю відбуваються зміни в Земній системі, напр., кліматі?

☐ Very slowly

☐ Very quickly

☒ Changes can take place in different parts of the system at different rates

Зміни відбуваються в різних частинах системи і з різною інтенсивністю

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

Чи важливо стандартизувати процедуру збору даних для того, щоб одна і та ж сама процедура використовувалась усіма школярами

Is it important to standardize data collection procedures so the same procedure is used by all GLOBE students?

- ☐ It's not that important, but it is a good suggestion if you have access to the right equipment.
- ☒ It's very important, it allows the data collected by different investigators to be used and compared with a high expectation of accuracy and precision.

It's important

Дуже важливо. Це дає можливість зібрані дані від різних колекторів порівнювати з високим рівнем точності.

- ☐ to collect the data from her time in college. In which case the teacher's procedure should always be used.

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GLOBE виміри – це приклад ...

GLOBE measurements are examples of

- ☐ Satellite measurements
- ☒ Ground observations
- ☐ Remote sensing data
- ☐ A and B only
- ☐ A, B and C

Спостереження на землі

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Що означає аббревіатура GLOBE?

What does the acronym GLOBE stand for?

- ☒ Global Learning and Observations to Benefit the Environment
- ☐ Глобальне вивчення та спостереження з метою поліпшення довкілля
- ☐ it's not an acronym, it doesn't stand for anything- it means the Earth as a GLOBE
- ☐ Globe Lens Over a Balanced Earth

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

Ground observations by GLOBE students can be used to validate interpretations by scientists of remotely-sensed Earth system data collected from space.

☒ True

☐ Так, це правда

Спостереження на землі GLOBE школярами можуть бути використані для підтвердження інтерпретації вченими дистанційних спостережень за системою Землі із космосу.

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THE GLOBE PROGRAM

Protocol eTraining Assessment Test

Ground observations by GLOBE students can be used to validate in-sensed Earth data. This is a key principle of the GLOBE Program.

- ☒ True
- ☐ False



Are you sure you want to submit all answers and finish the quiz?

Yes

No

Submit All



Congratulations! You successfully completed the Introduction to GLOBE module. Click 'Finish' to record your results.

Quiz Result

Your Score: **100%**

Passing Score: **80%**

[Review Quiz](#)

[Finish](#)



View the eTraining Requirements for:



New GLOBE Teachers



GLOBE Observers

eTraining Information



Recently completed module: **INTRODUCTION TO GLOBE**

Modules required to become a GLOBE Trained user:

- Introduction to GLOBE
- Introduction to a Sphere (Atmosphere, Biosphere, Hydrosphere or Pedosphere)
- 1 Protocol Module (from the same sphere as the introduction module)
- The Land Cover Sample Site Description module is

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h as teachers and
quired for all new

**Test not
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Atmosphere Modules

Atmospheric conditions can have an important impact on the types of plants and animals that live in a particular area as well as



INTRODUCTION TO GLOBE

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Atmosphere Modules

Atmospheric conditions can have an important impact on the types of plants and animals that live in a particular area as well as soil formation. The atmospheric measurements collected by GLOBE are important to scientists studying weather, climate, land cover, phenology, ecology, biology, hydrology, and soil. Students and scientists investigate the atmosphere through the collection of data using measurement protocols and instruments that meet certain specifications in order to ensure that data are comparable. The training slides in this section will introduce you to the measurement protocols for the various atmosphere