



Introduction to Pedosphere

**Вступ до Педосфери
е-тренінг**



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Ukraine



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Trees Around the GLOBE Campaign -- Join Today

The campaign focuses on tree height, with a close relationship with land cover, greenings, and carbon cycle.

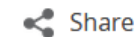
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As of 2021: Please note that the email address for the GLOBE Community Support team has changed but this change has not been reflected in the eTraining slides. For questions regarding eTraining module content, please contact us at globehelp@ucar.edu.

Protocol eTraining

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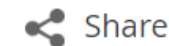
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Protocol eTraining

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 is complete, you will be ready to start entering your measurements and will be joining a community of thousands teachers around the world!

Existing GLOBE teachers can continue to expand their GLOBE protocol knowledge by completing additional modules and assessment tests.

The GLOBE community looks forward to welcoming you. Please [contact us](#) if you have any questions. Your question may also be answered in one of our [Discussion Forums](#), so check there as well.



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Pedosphere (Soil)



INTRODUCTION TO PEDOSPHERE (SOIL)

This slide set will provide you with background information about soil and an overview of the protocols of the GLOBE Pedosphere Investigation. It also explains how to define soil study sites for both Soil Moisture and Temperature and for Soil Characterization. After completing it you will be prepared to proceed to learn any and all of the soil measurement protocols.

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Introduct

Click the



Would you like to resume where you left off?

Yes

No

) Module

luck!

Start Quiz



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Protocol eTraining Assessment Test

Introduction to Soil (Pedosphere) Module

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

[Start Quiz](#)



Вивчати ґважливо тому, що

It is important to study soil because:

- Almost all plants grow in soil
 - Soil profiles can provide a history of the local environment
 - Soil moisture is an important part of the hydrologic cycle
 - Soil is an essential natural resource
 - All of the above
- Все з переліченого

Submit All

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Citizen science measurements of soil are helpful because: **Ваші виміри важливі тому, що**

- Remote sensing from satellites can't see more than 5 cm below the surface
- Soil can vary significantly over short distances
- In situ measurements are needed to calibrate SMAP surface soil moisture data
- Soil characterization can only be done locally
- All of the above **Все перелічене вище**

Submit All

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Які виміри за протоколом проводяться тільки один раз?

Which soil protocol is usually done only once at a site:

- Soil Moisture
- Soil Temperature
- Soil Characterization **Характеристики ґрунту**
- Infiltration
- All of the above

Submit All

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Ділянка для вивчення характеристик ґрунту не повинна бути

Soil Characterization Study Sites must not be:

- Under trees
- Near roads or walking paths
- Where it is unsafe to dig Там, де небезпечно копати
- Near the atmosphere study site
- All of the above

Submit All

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Для визначення ділянки вивчення вологості ґрунту вимагається

The Basic Data GLOBE requires for Soil Moisture Study Site Definition are:

- Location
- Safety
- Status
- Appearance
- All of the above **Все з переліченого**

Submit All

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Яке твердження не є вірне?

Which of the following statements is false?

- Soil characterization is required for soil moisture and temperature site definition
характеристики ґрунту необхідні для визначення вологості ґрунту та температури ділянки
- There are many options for exposing soil profiles and sampling soil moisture
- Soil layers are called horizons
- Soil study sites may be on slopes or level ground
- The location (latitude, longitude, elevation) of soil study sites must be defined

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How far from buildings, roads, paths, and other structures must a Soil Moisture and Temperature Study site be located?

- 3 centimeters
- 30 centimeters
- 10 meters
- 3 meters
- Within 5 meters

Як далеко від будівель, доріг, стежок та інших об'єктів може розміщуватись ділянка виміру вологості та температури ґрунту?

3 метри

Submit All

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Why is it important for the two people measuring slope to be the same height? **Чому важливо двом людям, які вимірюють кут нахилу схилу, бути однакового зросту?**

- To see each other more clearly through the straw of the clinometer
- To orient the measurement in the right direction
- So they can properly measure the height of the trees in the landscape
- So they will get a 0° slope on level ground and the correct slope on hills
- So either person can hold the clinometer

Вони будуть мати 0° кут по відношенню до поверхні землі і їхні вимірювання будуть правильними

Submit All

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When measuring Landscape Position, which one of the following is not a possible option?

- Summit
- Side slope
- Back slope
- Depression
- Stream bank

Яка з перелічених опцій Ландшафтного положення при вимірюванні не є можливою?

Задня сторона

Submit All

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When choosing an area for a Gravimetric Transect Soil Moisture Study Site how many meters of space must you have available?

- 5 meters
- 100 meters
- 50 meters
- 10 meters
- 25 centimeters

50 метрів

Вибираючи ділянку для гравіметричної трансекти для виміру вологості ґрунту, скільки метрів ви повинні мати доступними?

Submit All

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Які можливі варіанти з перелічених для ідентифікації місця відбору проб ґрунту?

What are the possible choices of Land Use for soil sampling site identification?

- Urban, Agricultural, Recreational, Wilderness, Other
Міський, сільськогосподарський, відпочинку, цілина
- Agricultural, Recreational, School, Wilderness, Other
- Suburban, Agricultural, Recreational, Jungle, Other
- City, Country, Suburban, Beachfront

Submit All

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Which of the following is not a possible degree measurement of Aspect?

Який з перелічених градусів неможливий для вимірювання Аспектів?

- 0°
- 45°
- 375°
- 180°
- 90°

Submit All

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Що є неважливим при виборі ділянки для вимірювання вологості та ґрунту?

What consideration is unimportant in deciding on a location for your Soil Moisture and Temperature Study site?

- Is it too close to any buildings or roads?
- Will the sun shine on the profile when we collect our data?
Сонце світитиме на профіль, коли ми збираємо дані
- Is it in a safe spot to dig?
- Can one access the site easily enough to collect repeat measurements?
- Is it big enough for the sampling pattern we will use?

Submit All

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Газони, сільськогосподарські ділянки та інші є прийнятними місцями якщо...

Lawns, agricultural sites, or other managed landscapes are acceptable locations if:

- You get special permission to sample that soil
- The soil is easy to dig
- The same land cover exists in the Soil Characterization Sample site and the Atmosphere study site **той самий наземний покрив існує як на ділянці для характеристик ґрунту, так і на ділянці Атмосферних спостережень**
- They are close enough to the Atmosphere study site
- They are located near a water body

Submit All

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What measurement is required when defining a Soil Moisture and Temperature Site?

- Slope
- Latitude **широта**
- Landscape position
- Canopy cover
- Land use

Який вимір є обов'язковим для визначення ділянки вимірювання вологості та температури?

Submit All

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What measurement is required when defining a Soil Moisture and Temperature Site?

- Slope
- Latitude
- Landscape position
- Canopy cover
- Land use

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

Yes

No

Submit All

360 Total Security



Congratulations! You successfully completed the Introduction to Soil (Pedosphere) module. Click 'Finish' to record your results.

Quiz Result

Your Score: **86.7%**

Passing Score: **80%**

Review Quiz

Finish



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03/01/2021**