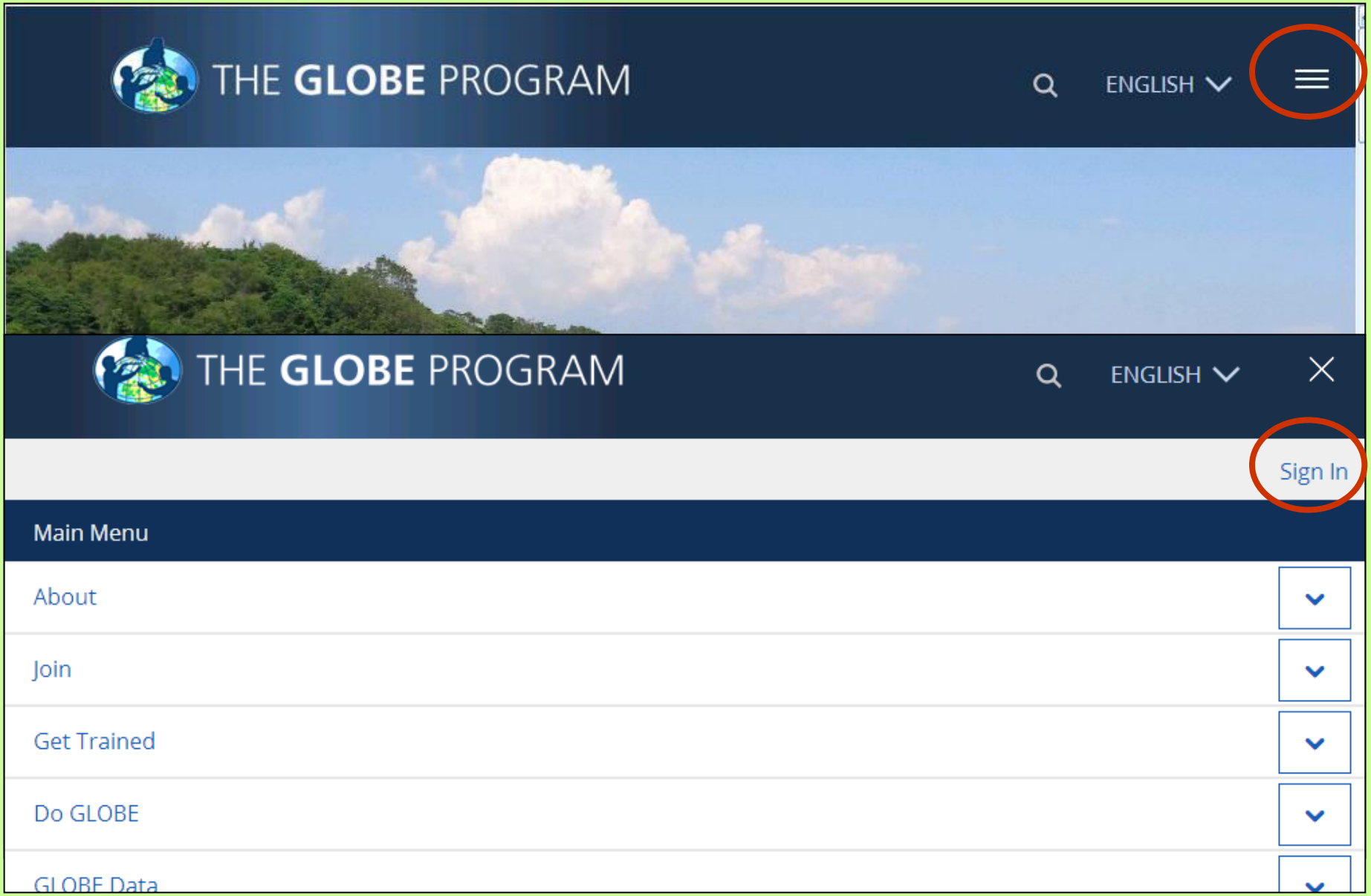
Clouds

Хмари

е-тренінг

березень 2018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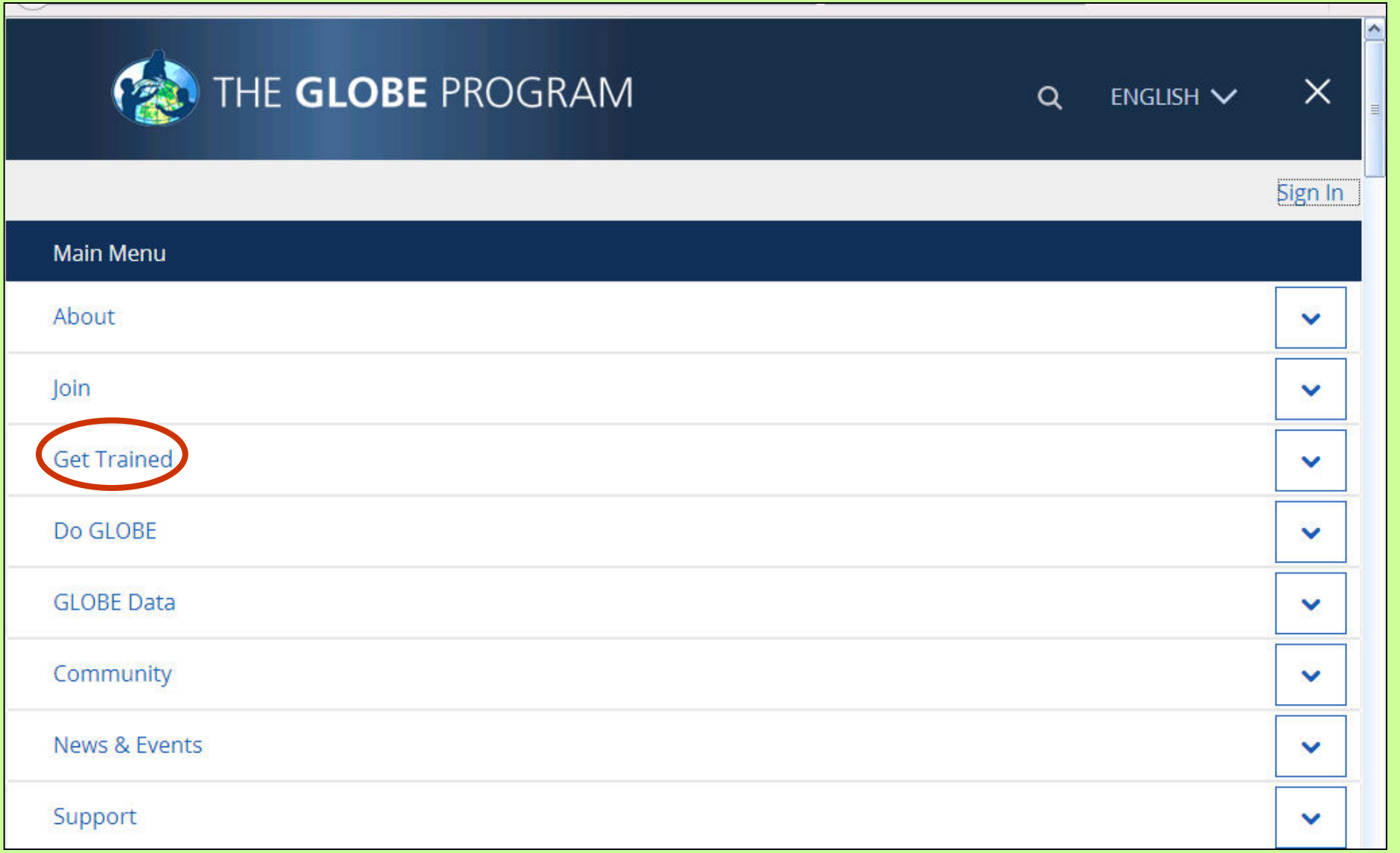
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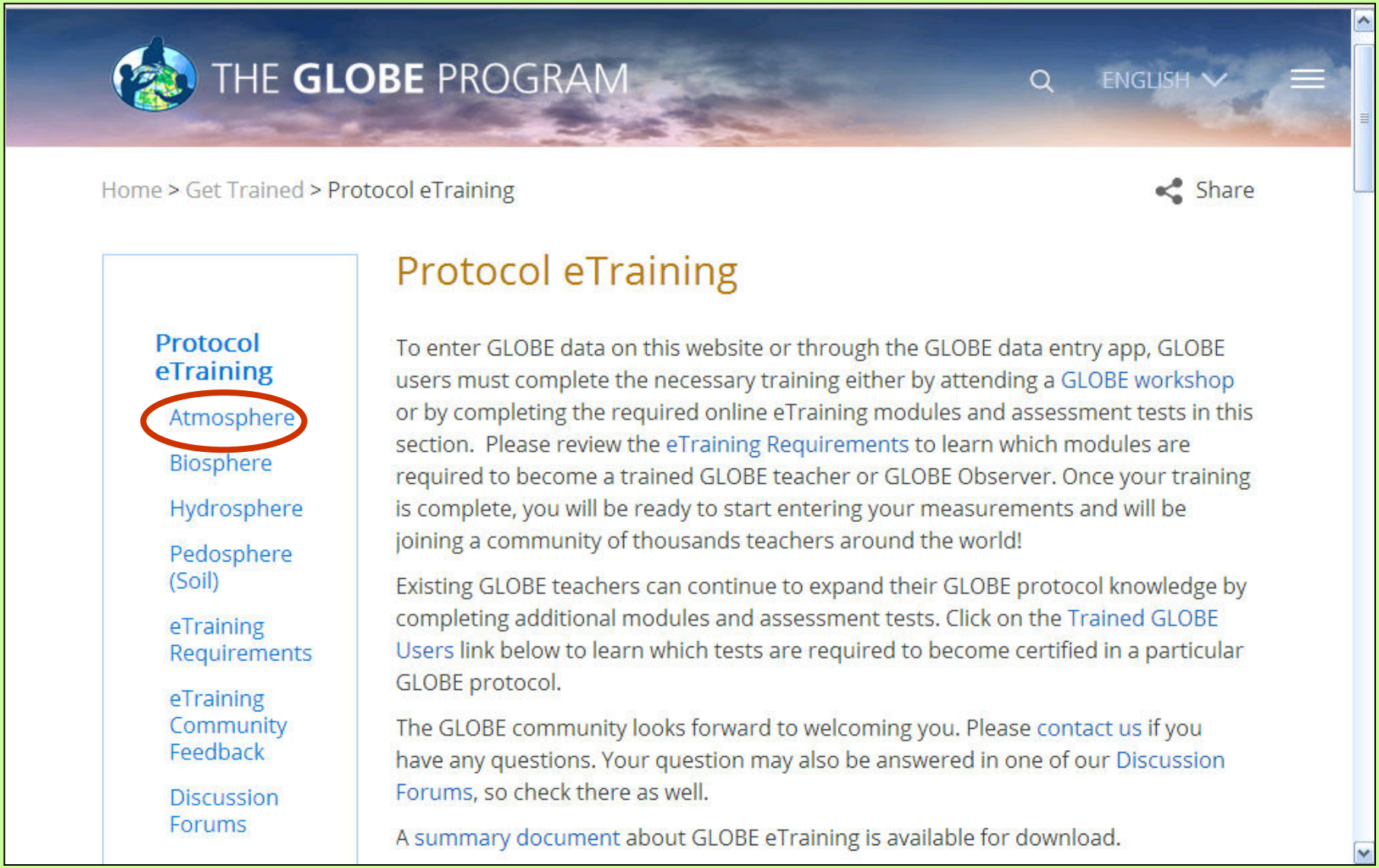
Using the GLOBE Website

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.


THE GLOBE PROGRAM
ENGLISH
Home > Get Trained > Protocol eTraining
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Protocol eTraining
Protocol eTraining
Atmosphere
Biosphere
Hydrosphere
Pedosphere (Soil)
eTraining Requirements
eTraining Community Feedback
Discussion Forums
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. Click on the Trained GLOBE Users link below to learn which tests are required to become certified in a particular GLOBE protocol.
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.
A summary document about GLOBE eTraining is available for download.

THE GLOBE PROGRAM
A Worldwide Science and Education Program

Ukraine

Часто посещаемые Начальная страница

THE GLOBE PROGRAM ENGLISH

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Atmosphere

Protocol eTraining

- Atmosphere
- Biosphere
- Hydrosphere
- Pedosphere (Soil)
- eTraining Requirements
- eTraining Community Feedback
- Discussion

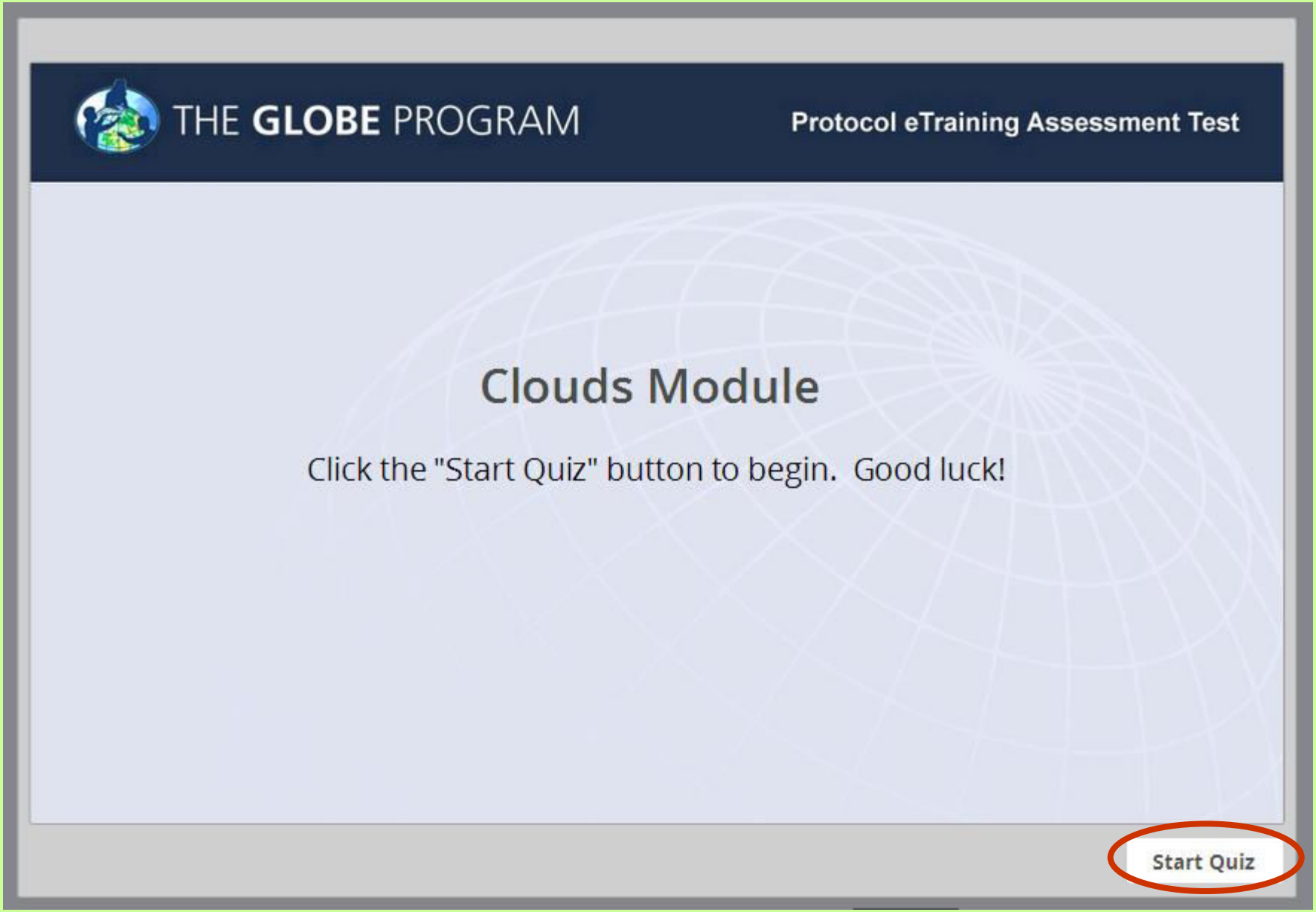
INTRODUCTION TO ATMOSPHERE

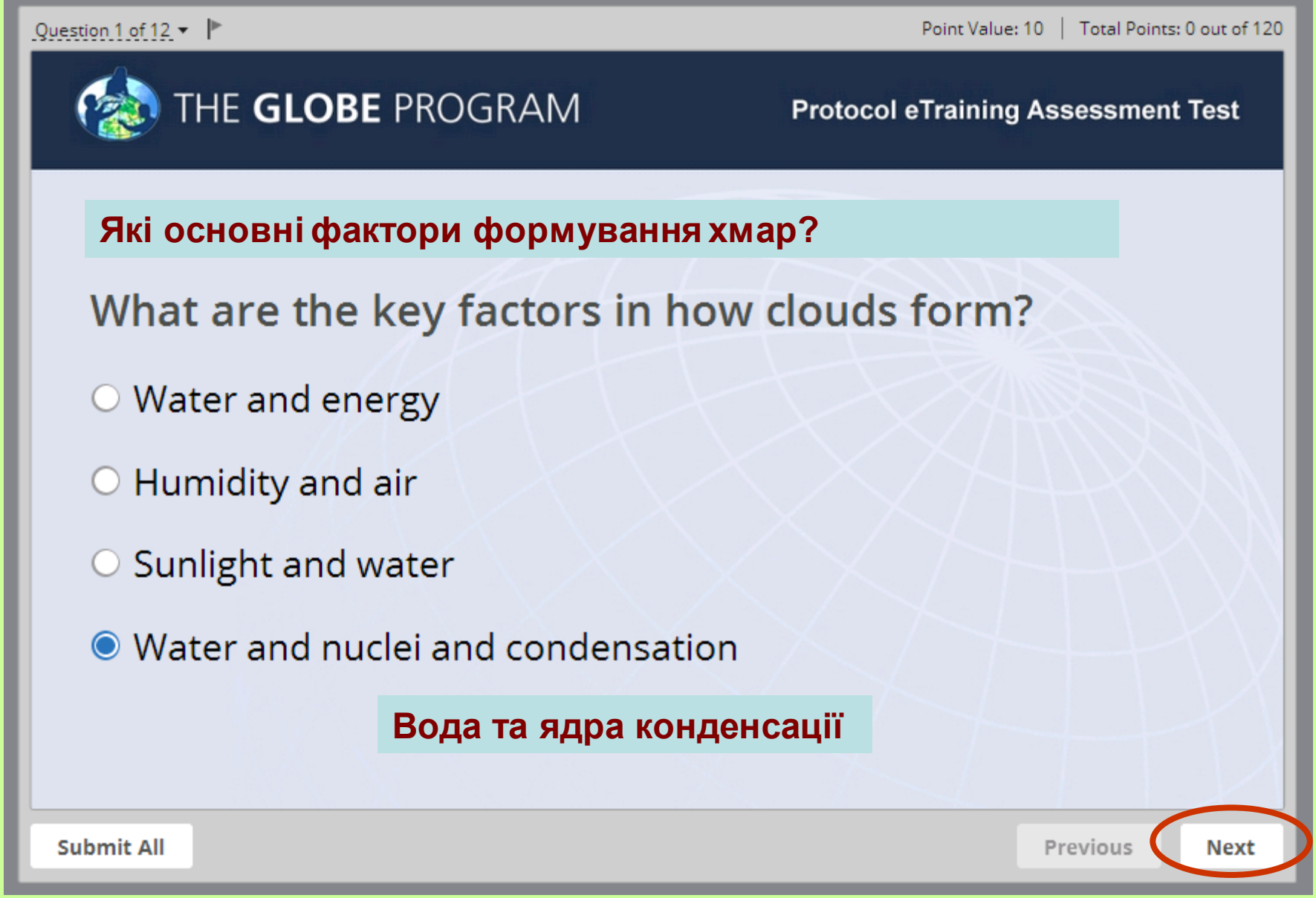
Learn about the GLOBE student investigations that explore the Earth's atmosphere, weather and climate. After completing this module, you will be able to describe the structure and composition of the atmosphere and explain how differential

CLOUDS

Learn how to select and define a GLOBE atmosphere Clouds protocol study site and get a step by step introduction of the protocol. After completing this module, you'll know how to explain what clouds are and how they form; explain why clouds are an important element of the Earth system; explain why cloud observations are important for understanding our changing Earth system; identify a Clouds study site and take observations of the sky; upload data to the GLOBE database; visualize data using GLOBE's Visualization Site and have ideas for questions you can address using cloud observations.

Download Module | Assessment Test | Test not completed


THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Clouds Module
Click the "Start Quiz" button to begin. Good luck!
Start Quiz


Question 1 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Які основні фактори формування хмар?
What are the key factors in how clouds form?
Water and energy
Humidity and air
Sunlight and water
Water and nuclei and condensation
Вода та ядра конденсації
Submit All
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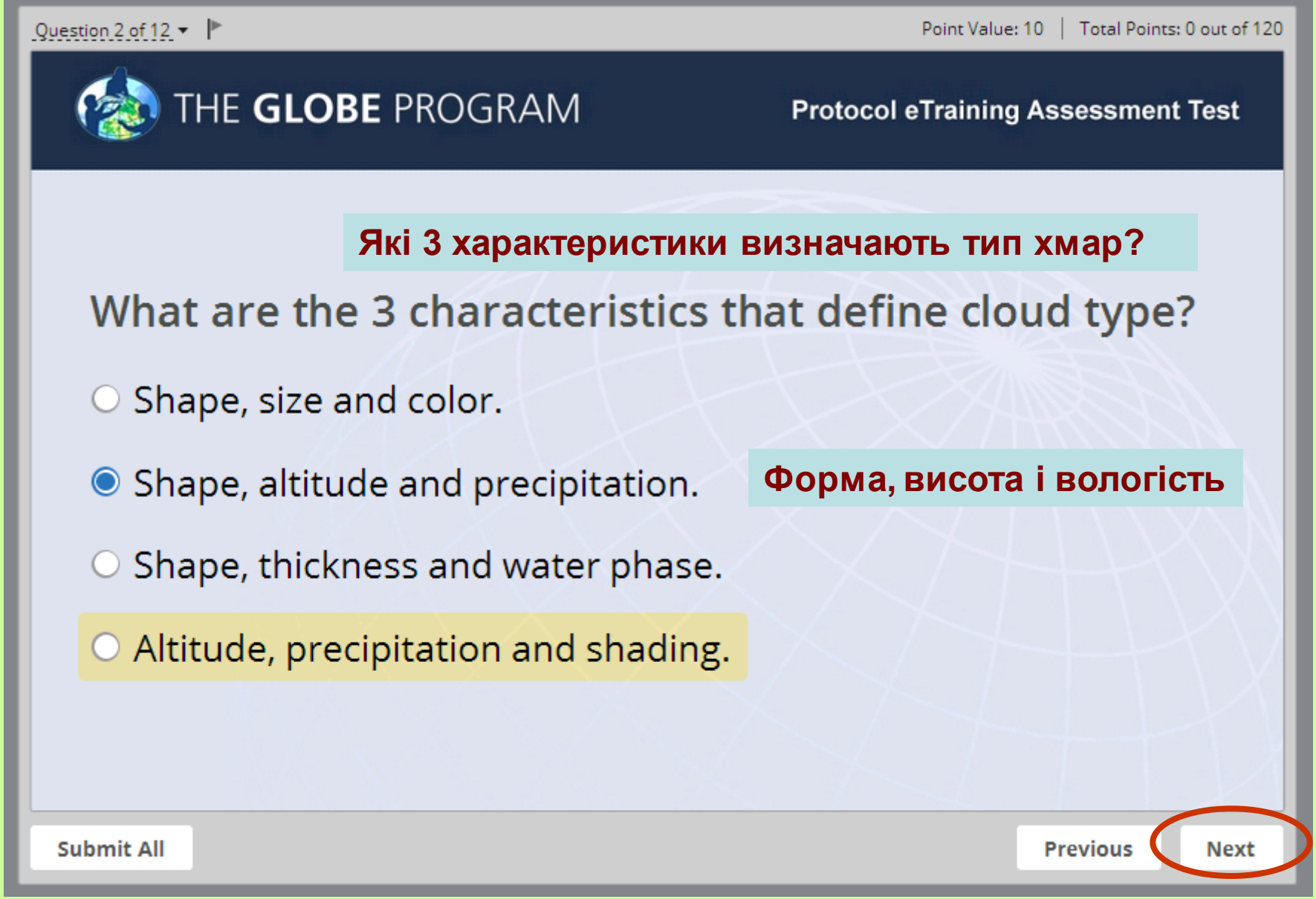
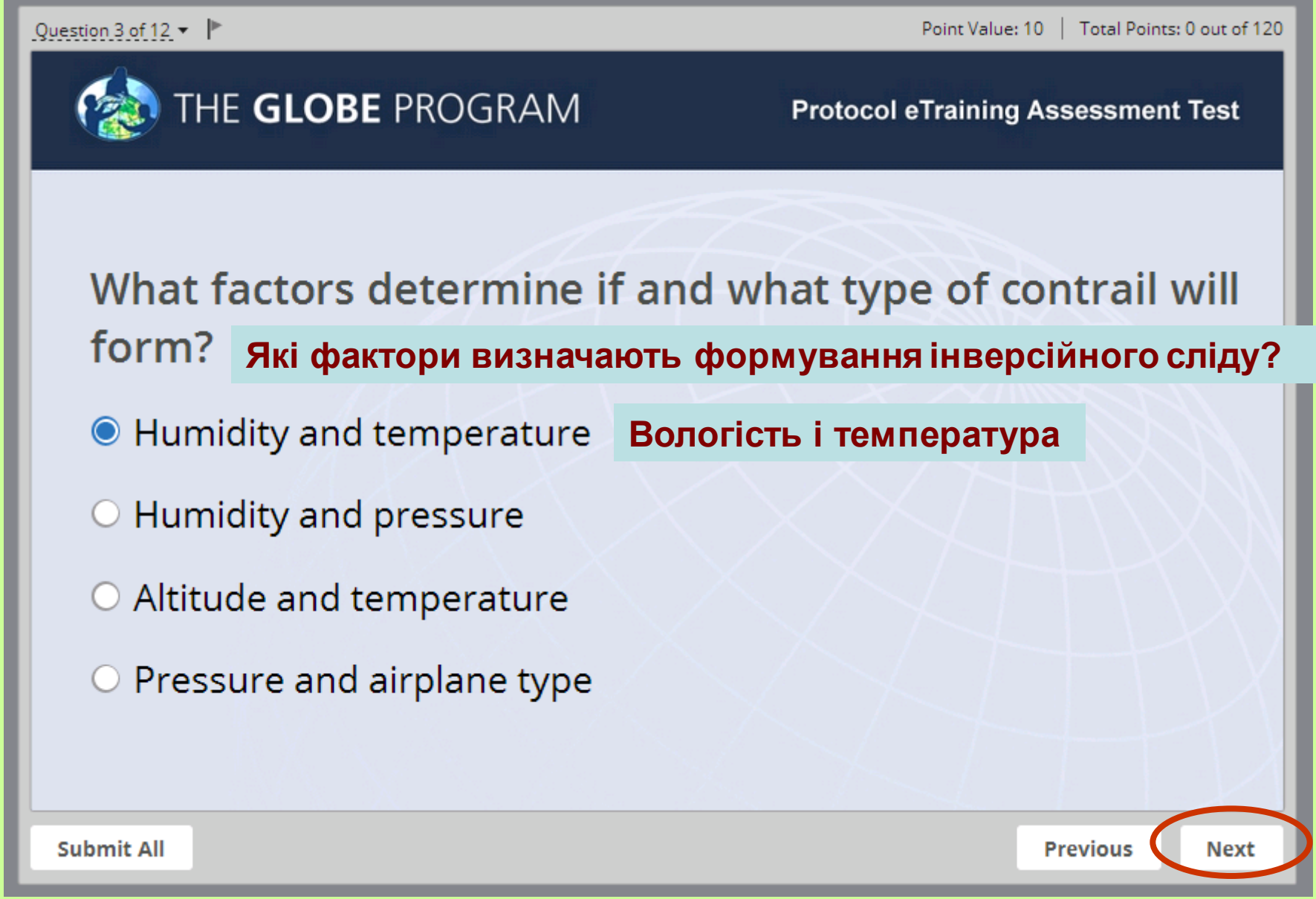
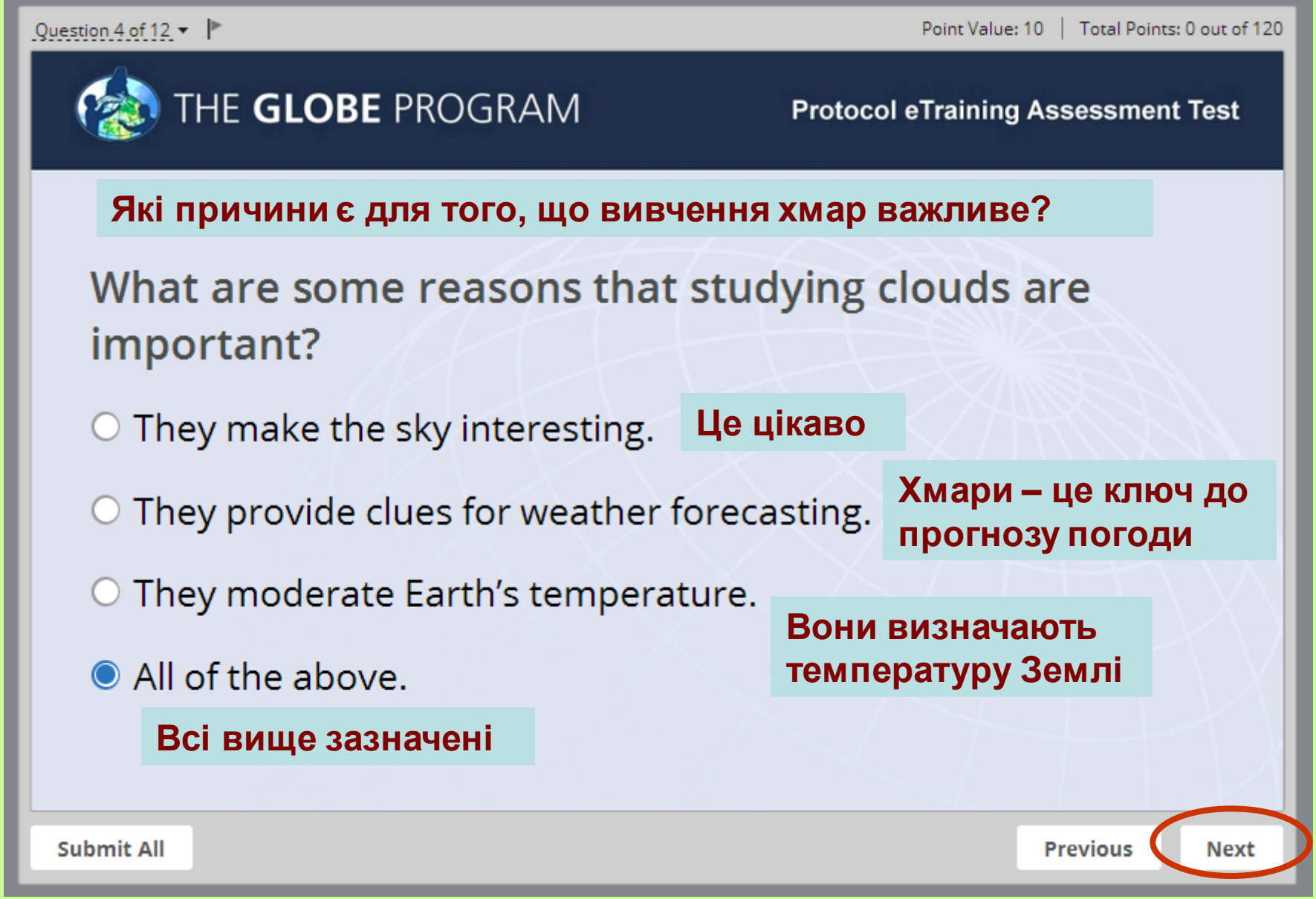

Question 2 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Які 3 характеристики визначають тип хмар?
What are the 3 characteristics that define cloud type?
Shape, size and color.
Shape, altitude and precipitation.
Форма, висота і вологість
Shape, thickness and water phase.
Altitude, precipitation and shading.
Submit All
Previous
Next


Question 3 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
What factors determine if and what type of contrail will form?
Які фактори визначають формування інверсійного сліду?
Humidity and temperature
Вологість і температура
Humidity and pressure
Altitude and temperature
Pressure and airplane type
Submit All
Previous
Next


Question 4 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Які причини є для того, що вивчення хмар важливе?
What are some reasons that studying clouds are important?
They make the sky interesting.
Це цікаво
They provide clues for weather forecasting.
Хмари – це ключ до прогнозу погоди
They moderate Earth's temperature.
Вони визначають температуру Землі
All of the above.
Всі вище зазначені
Submit All
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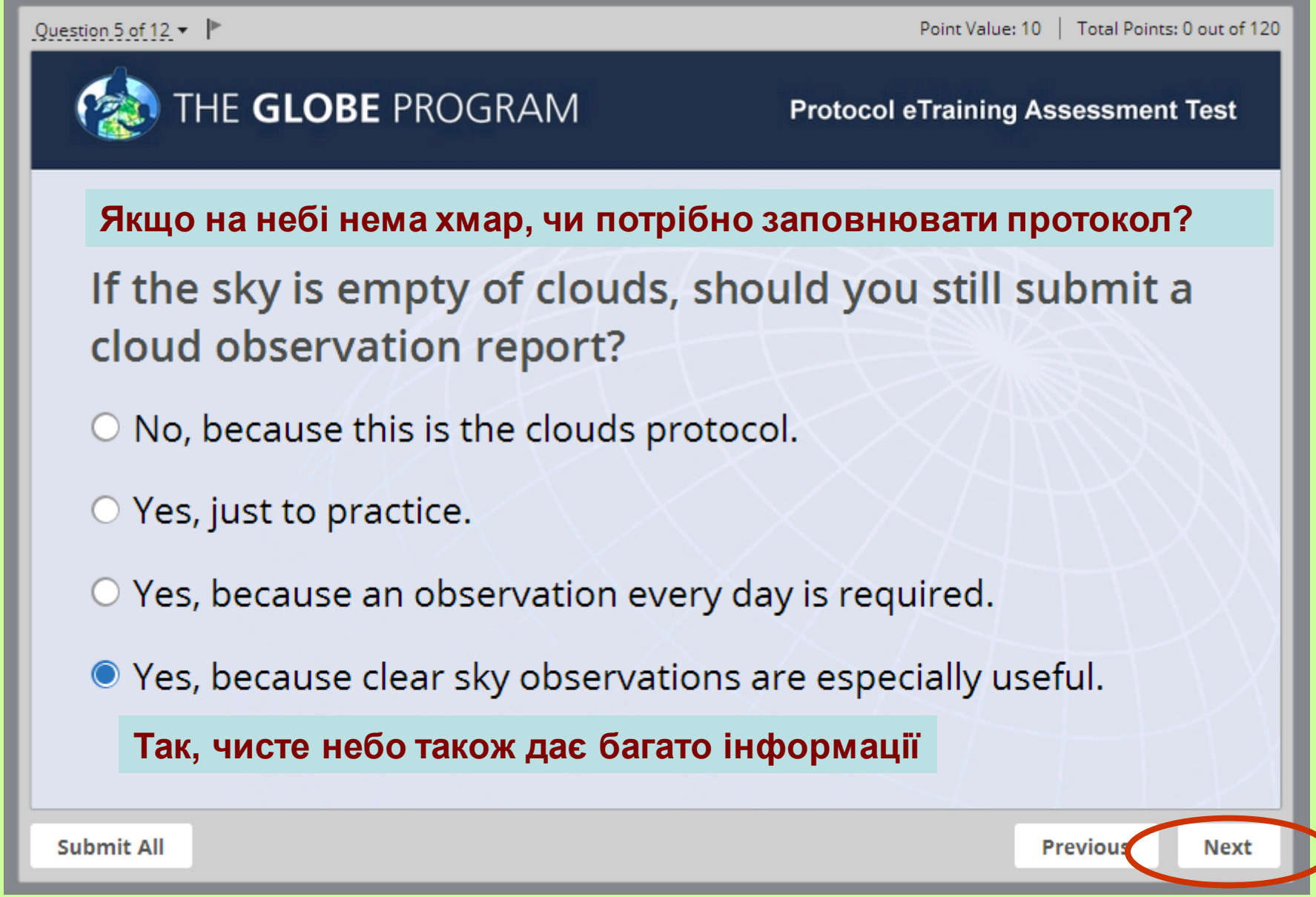
Question 5 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Якщо на небі нема хмар, чи потрібно заповнювати протокол?
If the sky is empty of clouds, should you still submit a cloud observation report?
No, because this is the clouds protocol.
Yes, just to practice.
Yes, because an observation every day is required.
Yes, because clear sky observations are especially useful.
Так, чисте небо також дає багато інформації
Submit All
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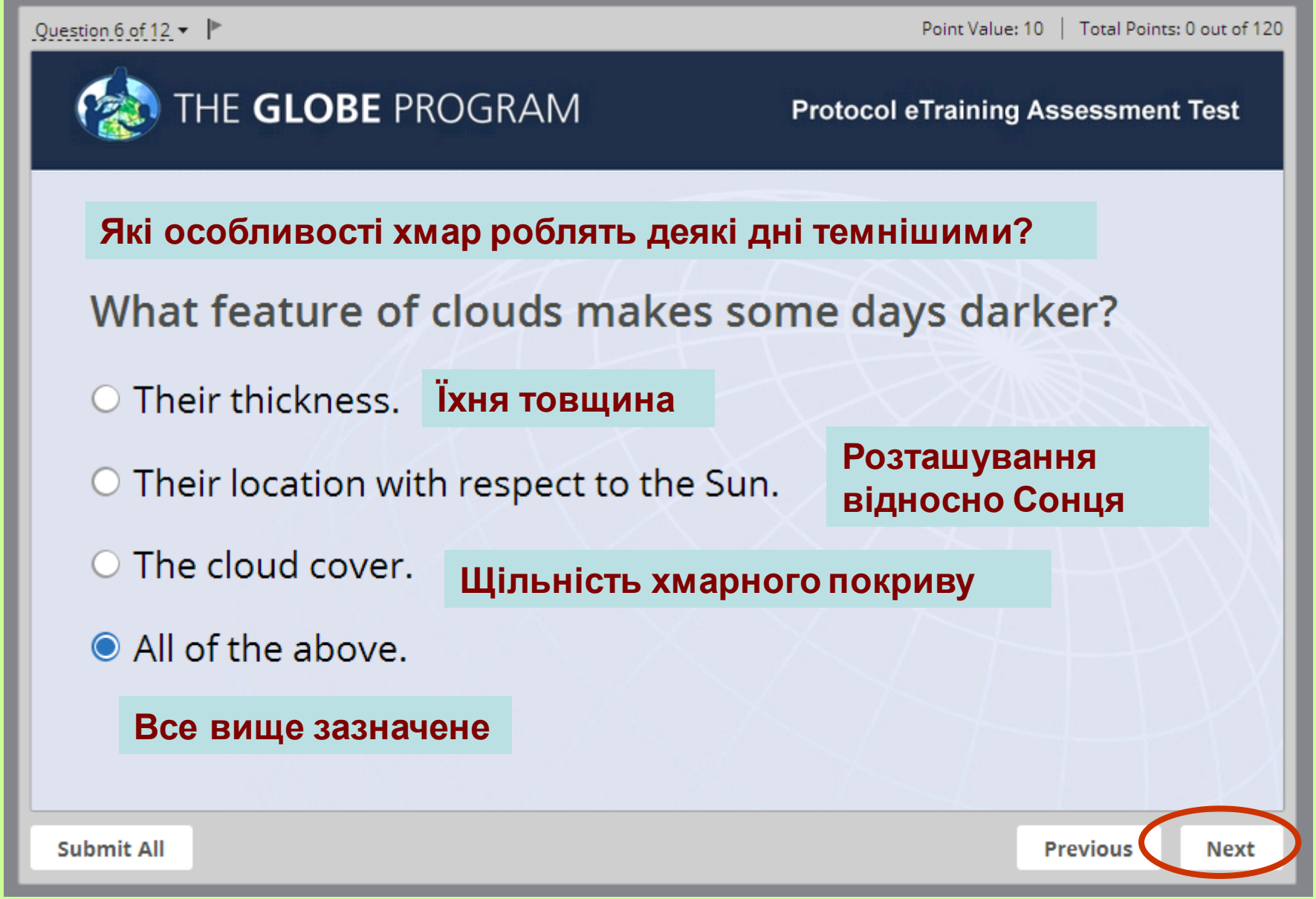
Question 6 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Які особливості хмар роблять деякі дні темнішими?
What feature of clouds makes some days darker?
Their thickness.
Їхня товщина
Their location with respect to the Sun.
Розташування відносно Сонця
The cloud cover.
Щільність хмарного покриву
All of the above.
Все вище зазначене
Submit All
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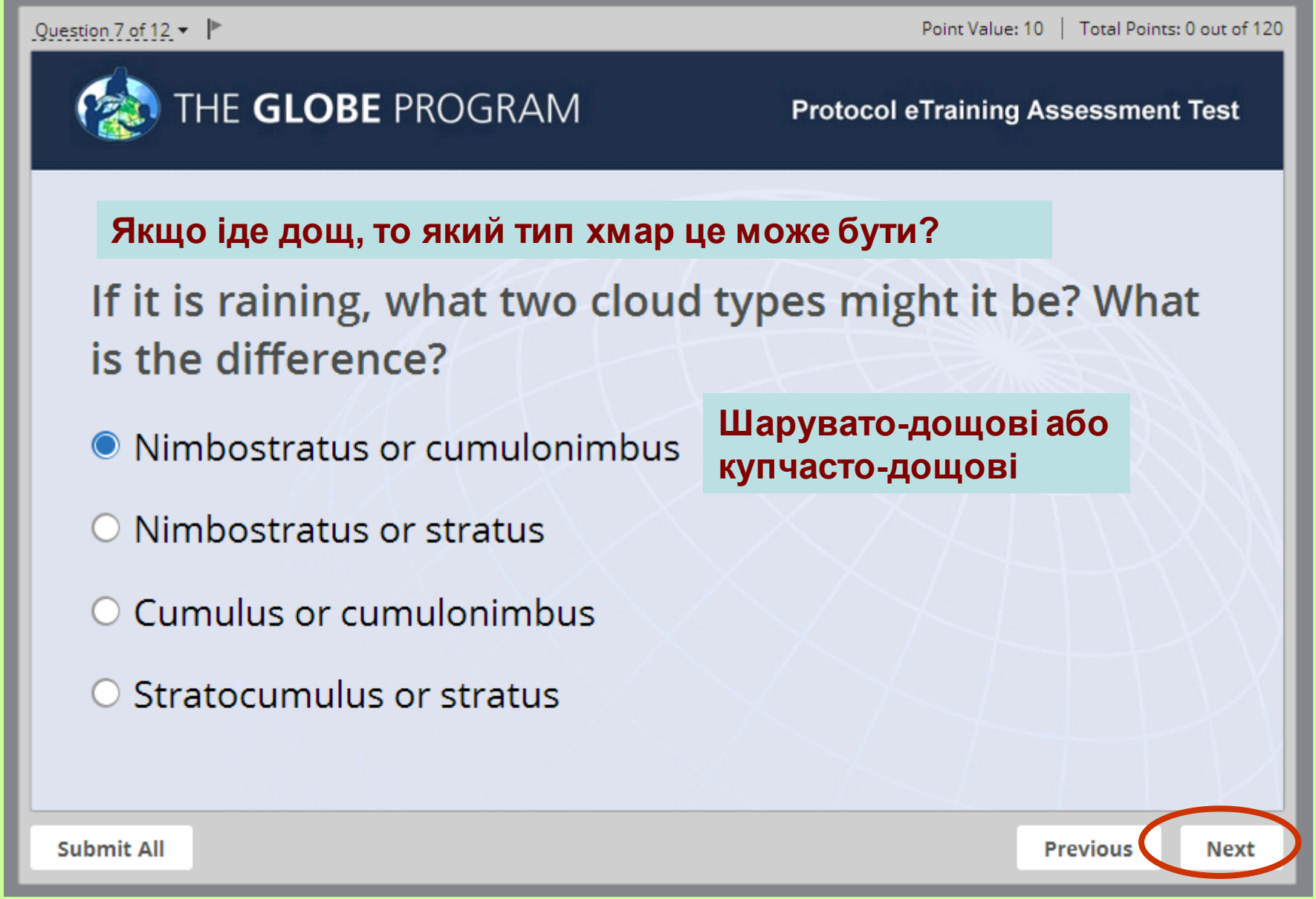
Question 7 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Якщо іде дощ, то який тип хмар це може бути?
If it is raining, what two cloud types might it be? What is the difference?
Nimbostratus or cumulonimbus
Шарувато-дощові або купчасто-дощові
Nimbostratus or stratus
Cumulus or cumulonimbus
Stratocumulus or stratus
Submit All
Previous
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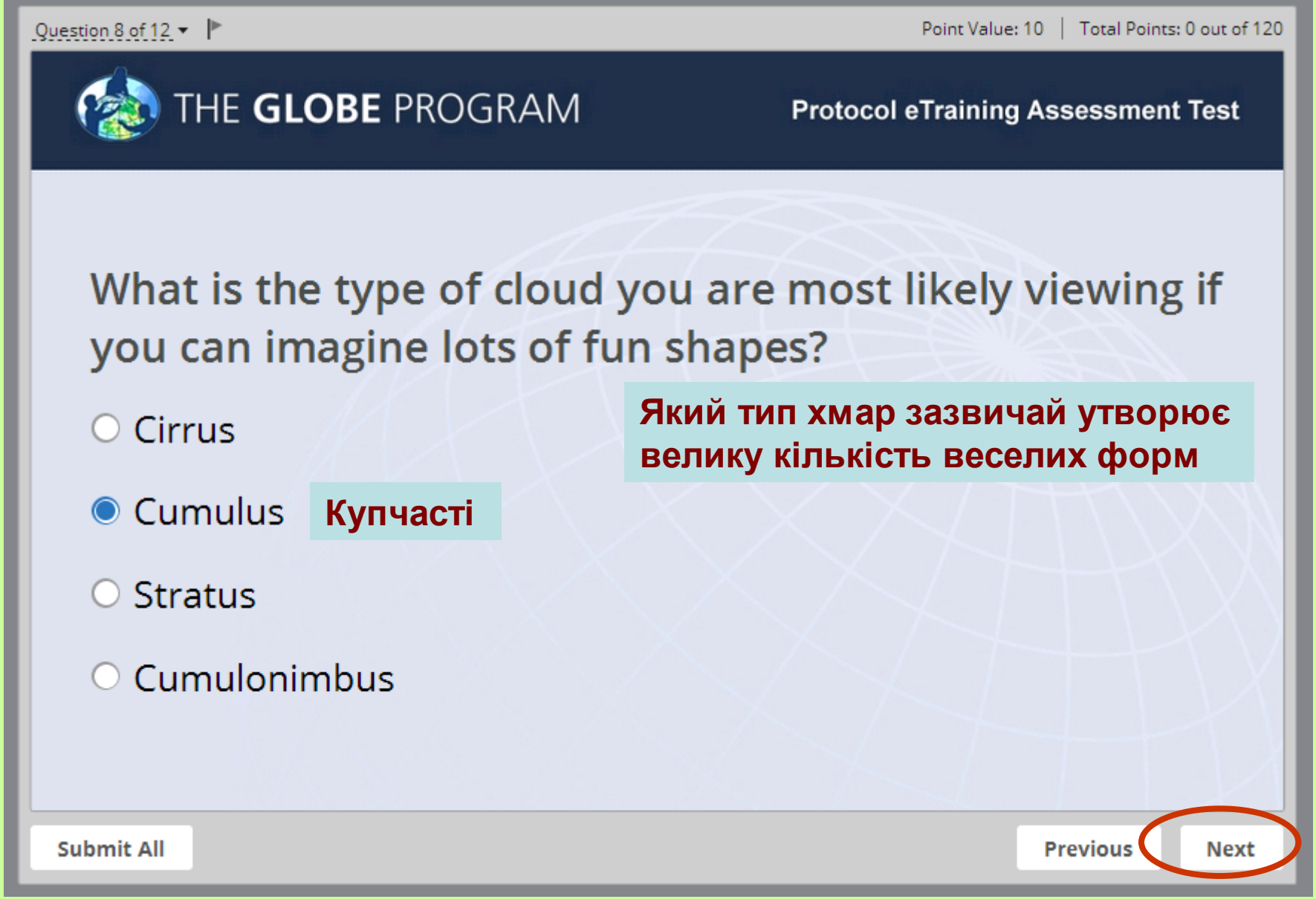
Question 8 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
What is the type of cloud you are most likely viewing if you can imagine lots of fun shapes?
Який тип хмар зазвичай утворює велику кількість веселих форм
Cirrus
Cumulus
Купчасті
Stratus
Cumulonimbus
Submit All
Previous
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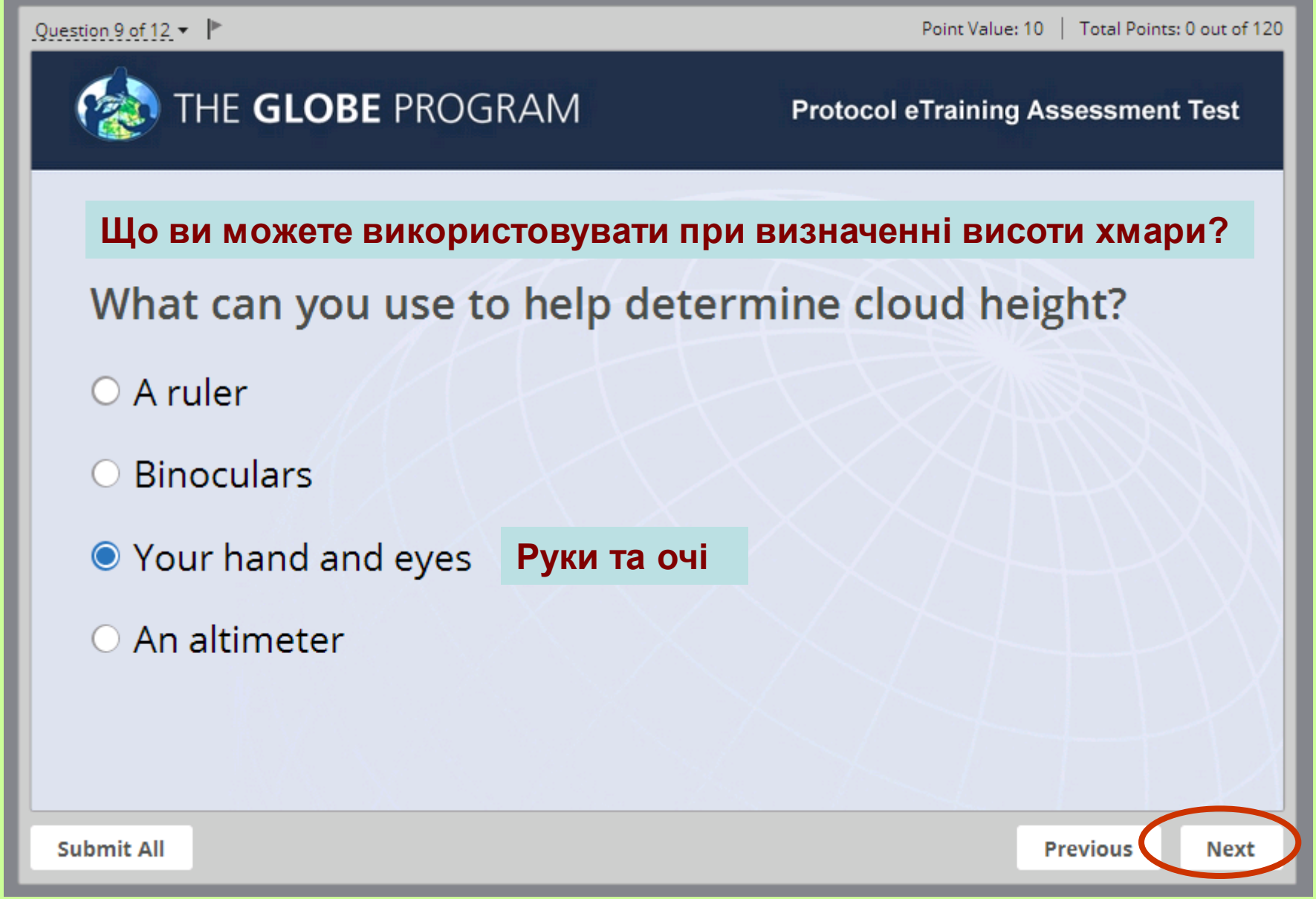
Question 9 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Що ви можете використовувати при визначенні висоти хмари?
What can you use to help determine cloud height?
A ruler
Binoculars
Your hand and eyes
Руки та очі
An altimeter
Submit All
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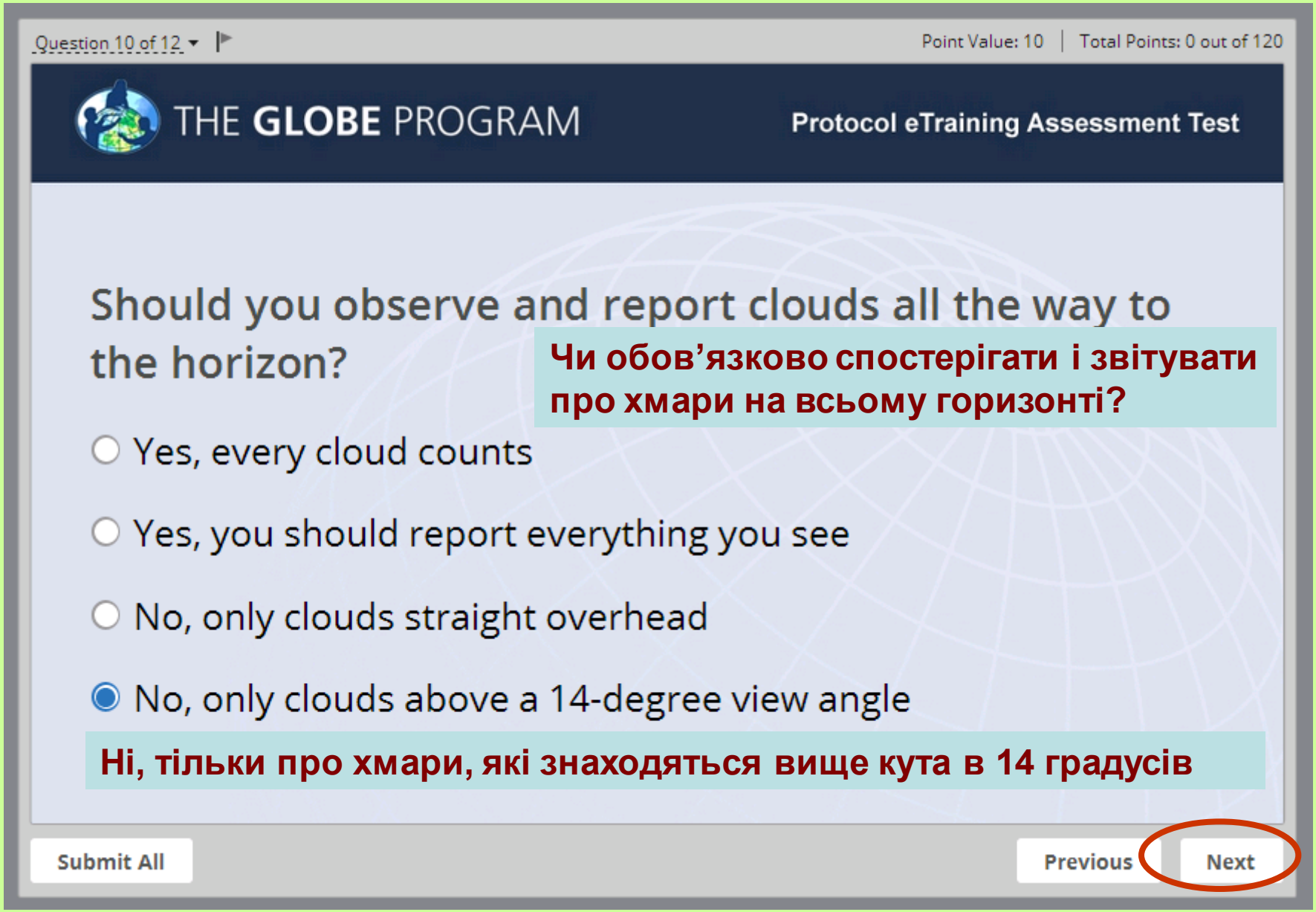
Question 10 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Should you observe and report clouds all the way to the horizon?
Чи обов'язково спостерігати і звітувати про хмари на всьому горизонті?
Yes, every cloud counts
Yes, you should report everything you see
No, only clouds straight overhead
No, only clouds above a 14-degree view angle
Ні, тільки про хмари, які знаходяться вище кута в 14 градусів
Submit All
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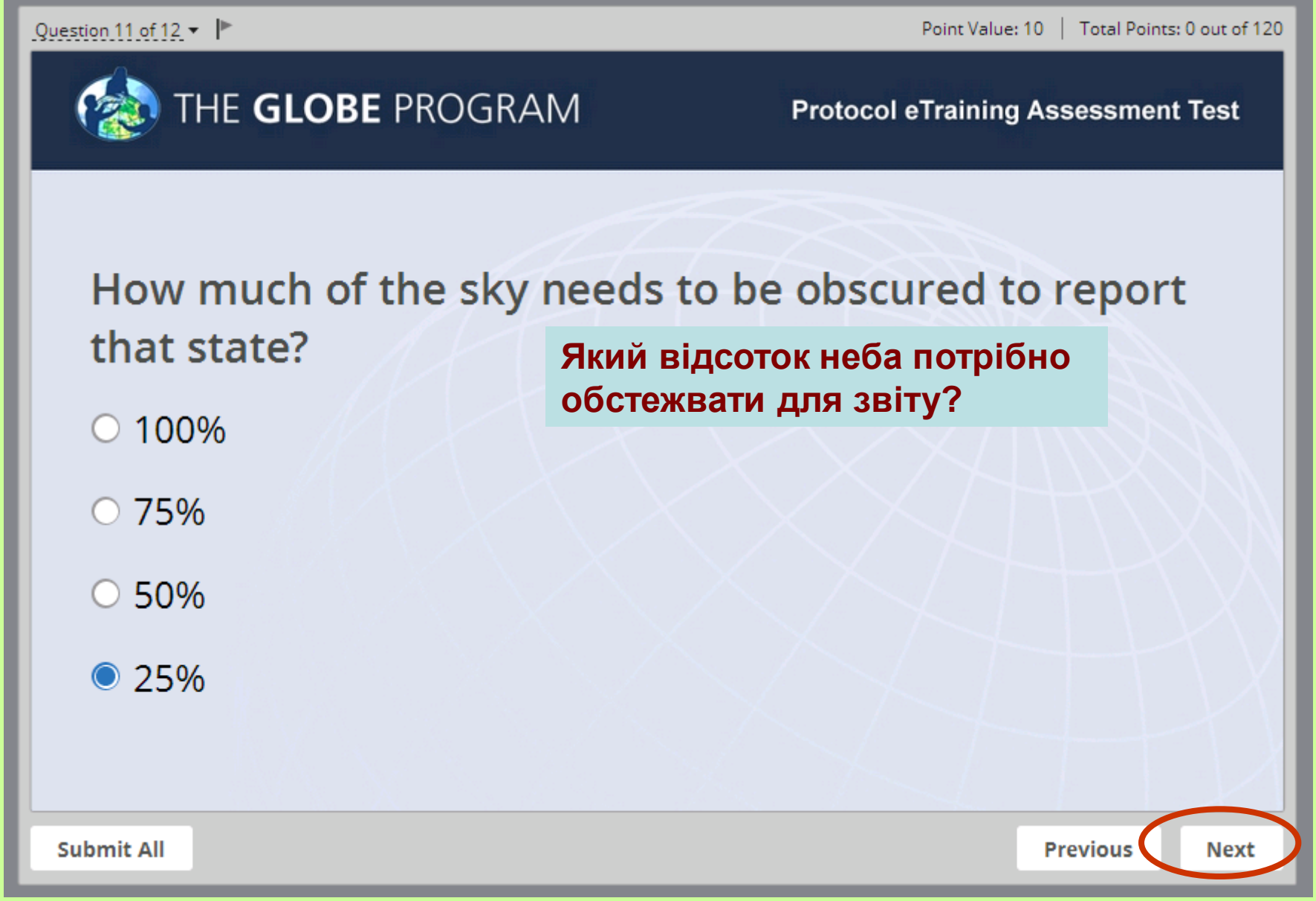


Який відсоток неба потрібно обстежвати для звіту?

Question 12 of 12 | Point Value: 10 | Total Points: 0 out of 120

THE GLOBE PROGRAM — Protocol eTraining Assessment Test

Яка теза може бути прикладом питання для дослідження?

What's an example of a question you could explore or investigate based on cloud observations?

Як хмари змінюються щодня або сезонно?

- How do clouds change day-to-day or seasonally?

Як різні типи хмар спричинюють зміну температури?

- How do different types of clouds affect air temperature?

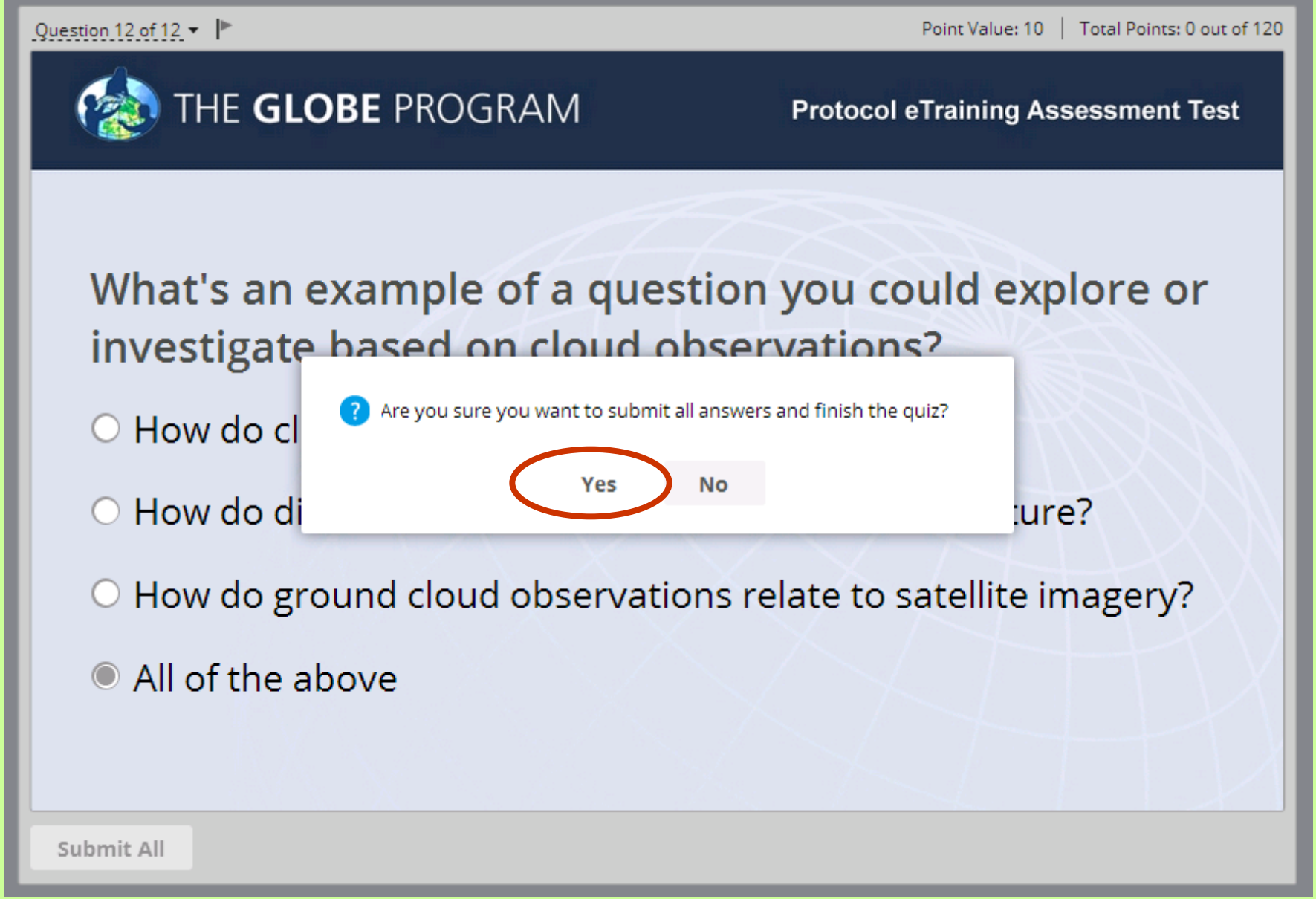
Як пов'язані спостереження за хмарами з Землі зі супутниковими?

- How do ground cloud observations relate to satellite imagery?

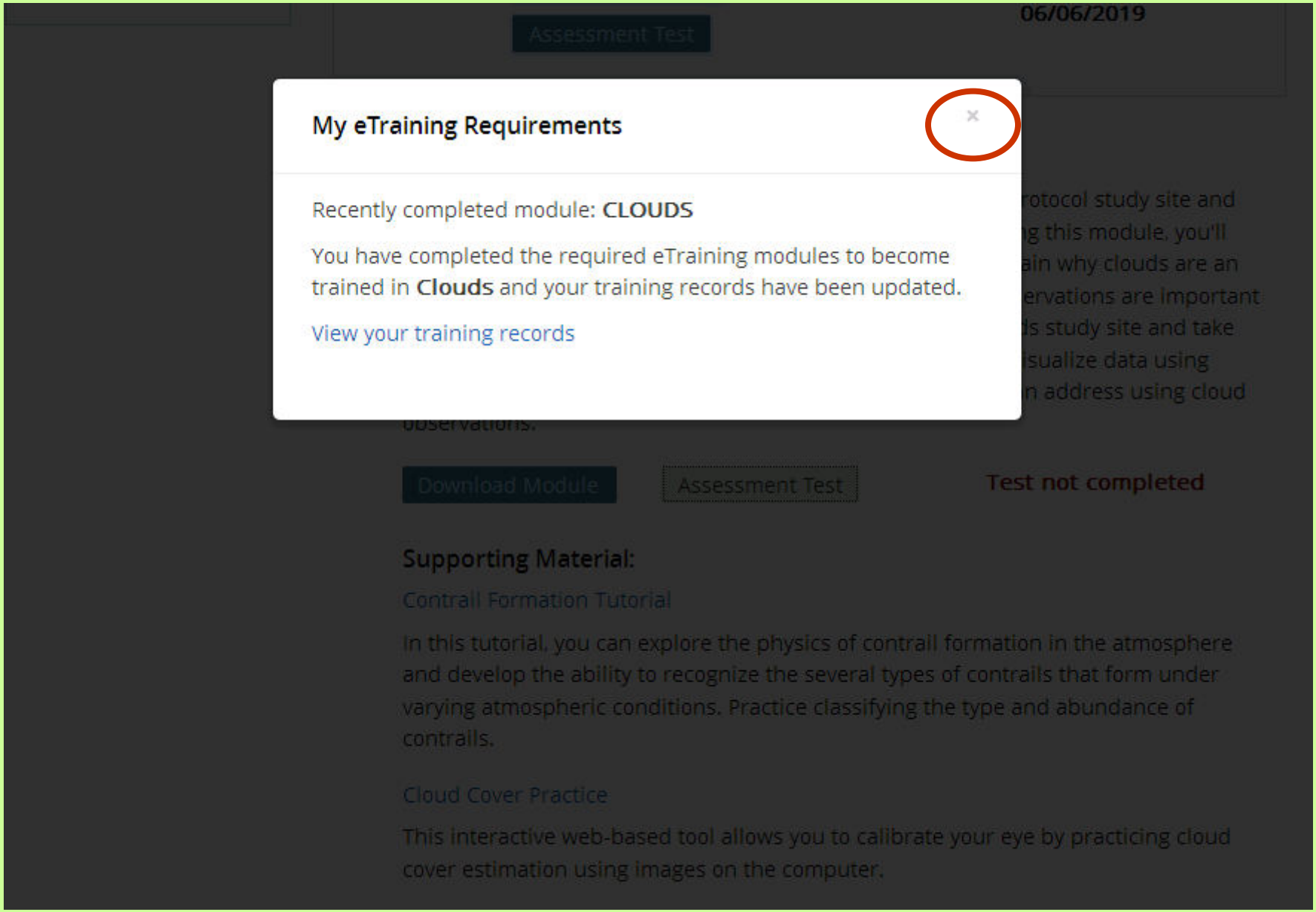
- (●) All of the above

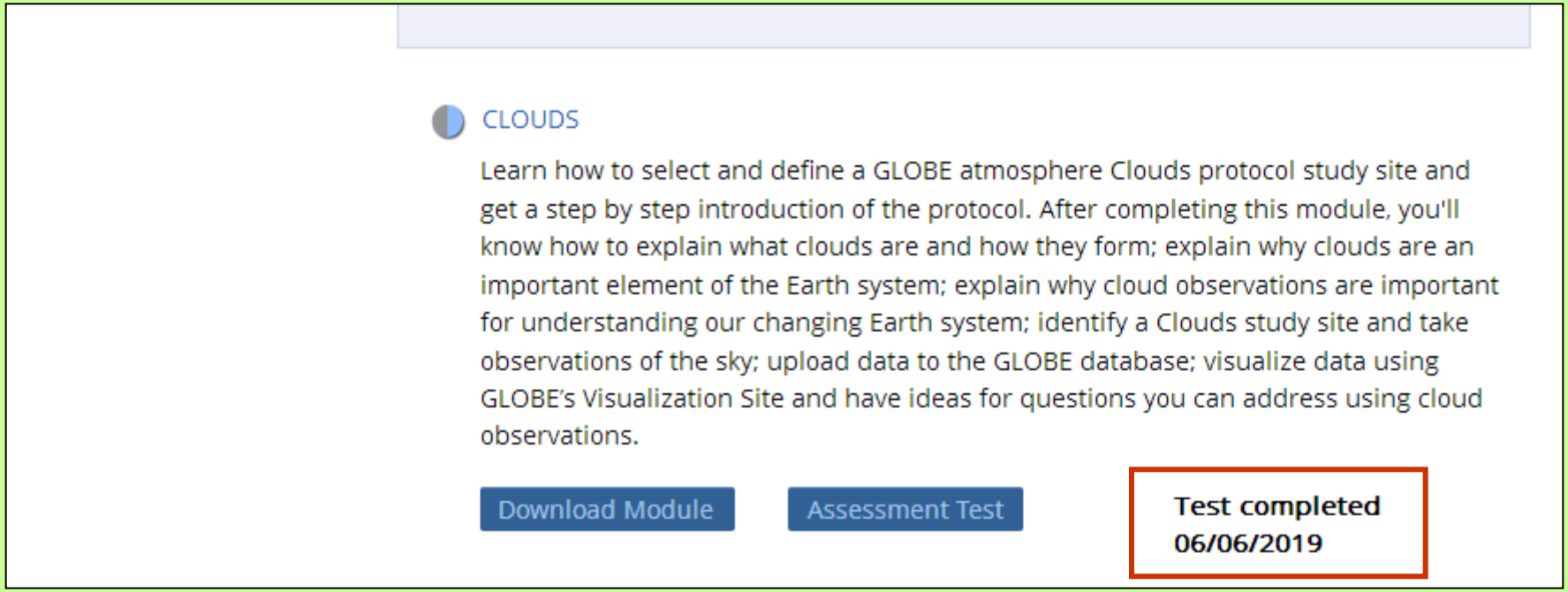
Все зазначене вище

Submit All | Previous | Next


Question 12 of 12
Point Value: 10
Total Points: 0 out of 120
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
What's an example of a question you could explore or investigate based on cloud observations?
How do cl
How do di
ture?
How do ground cloud observations relate to satellite imagery?
All of the above
Are you sure you want to submit all answers and finish the quiz?
Yes
No
Submit All


Detailed Results
Print Results
THE GLOBE PROGRAM
Protocol eTraining Assessment Test
Congratulations! You successfully completed the Clouds module. Click 'Finish' to record your results.
Quiz Result
Your Score: 100%
Passing Score: 80%
Review Quiz
Finish


Assessment Test
06/06/2019
My eTraining Requirements
Recently completed module: CLOUDS
You have completed the required eTraining modules to become trained in Clouds and your training records have been updated.
View your training records
Download Module
Assessment Test
Test not completed
Supporting Material:
Contrail Formation Tutorial
In this tutorial, you can explore the physics of contrail formation in the atmosphere and develop the ability to recognize the several types of contrails that form under varying atmospheric conditions. Practice classifying the type and abundance of contrails.
Cloud Cover Practice
This interactive web-based tool allows you to calibrate your eye by practicing cloud cover estimation using images on the computer.


CLOUDS
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Assessment Test
Test completed
06/06/2019