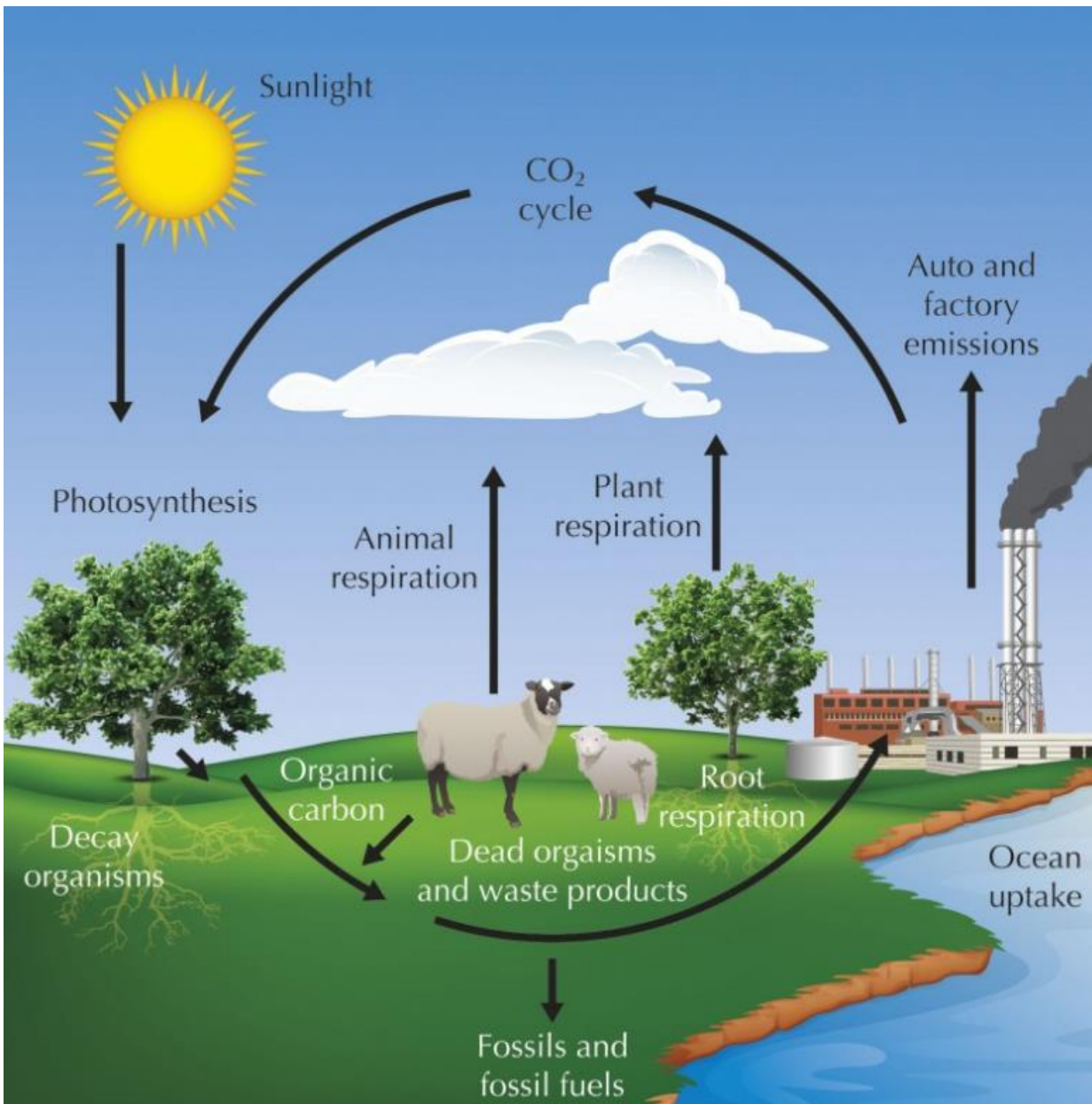


Carbon sinks

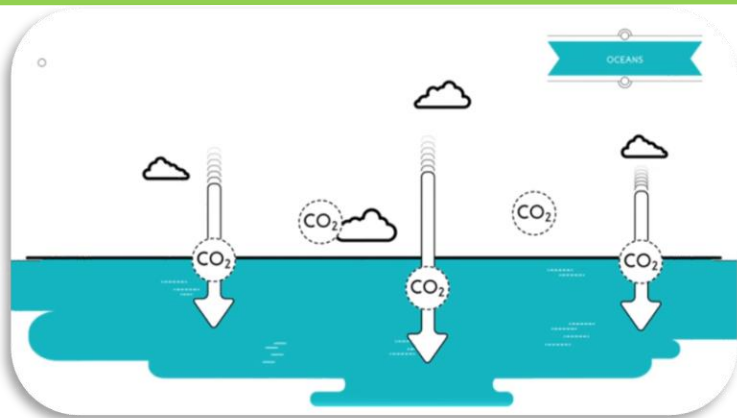


Forests



Oceans

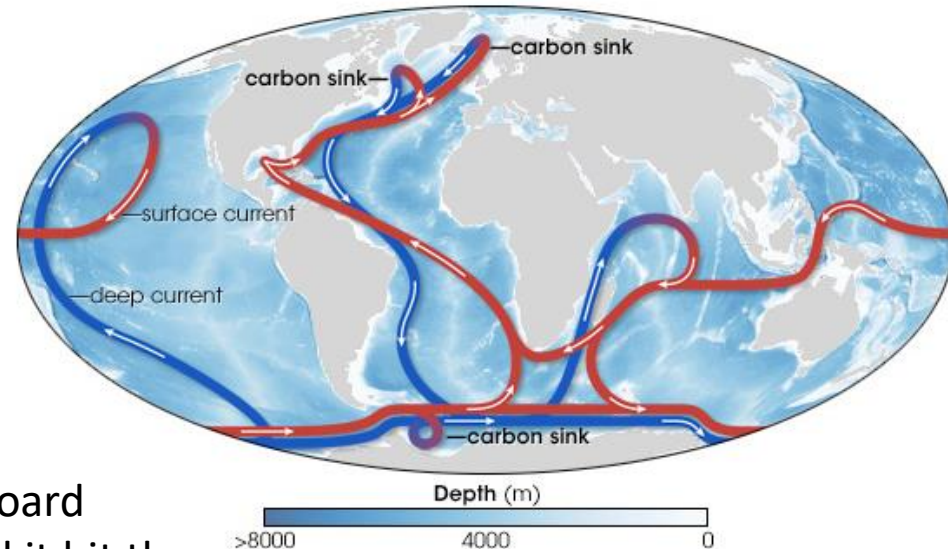
Oceans – Carbon sinks



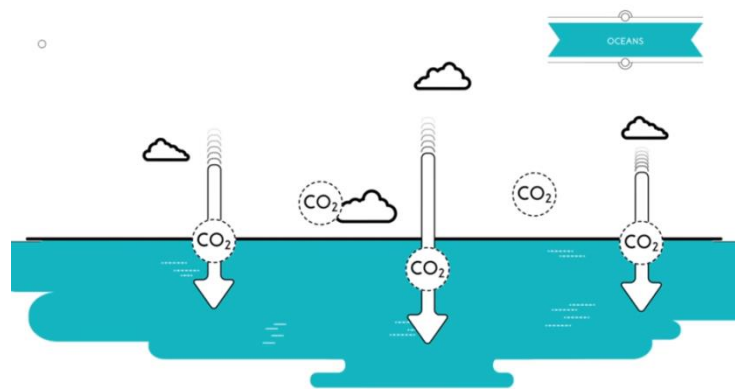
Watch

- 1 Explain in your own words what a carbon sink is.
- 2 What percentage of CO₂ do oceans absorb?

- 3 What in the ocean captures CO₂?
- 4 How many metres in a kilometre?
- 5 How many km deep is the deepest part of the ocean?
- 6 What happens when there is too much carbon in the oceans?
- 7 If you dropped a golf ball sized stone overboard above the deepest part of the ocean, would it hit the bed within 10 minutes? Explain your answer.



Answers



Watch

1 Explain in your own words what a carbon sink is.

2 What percentage of CO₂ do oceans absorb? **50%**

3 What in the ocean captures CO₂?

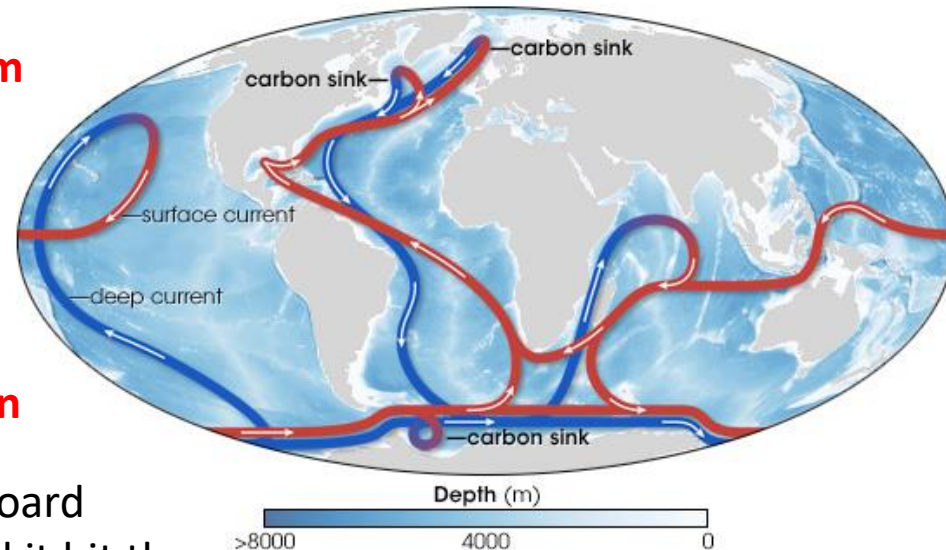
Plankton Coral Fish Algae Photosynthetic bacteria

4 How many metres in a kilometre? **1000 m**

5 How many km deep is the deepest part of the ocean? **8 km**

6 What happens when there is too much carbon in the oceans? **Ocean acidification**

7 If you dropped a golf ball sized stone overboard above the deepest part of the ocean, would it hit the bed within 10 minutes? Explain your answer.

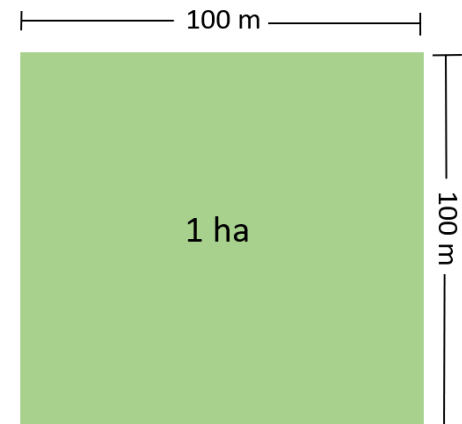
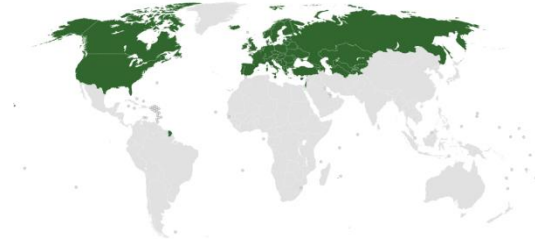


Forests – Carbon sinks

Forests and other wooded land in the UNECE countries cover nearly 1.9 billion hectares.

When it is mature, a forest contains roughly 200 tonnes of carbon per hectare.

Typical densities range from 1000 to 2500 trees per hectare.



- 1 Explain in your own words what a hectare is (ha). How many 1m^2 are there in a hectare?
- 2 How do forests help with carbon levels?
- 3 What is 1.9 billion rounded to the nearest billion?
- 4 **Estimate** the amount of carbon in the forests in the UNECE countries.
- 5 How much space in m^2 do trees typically have?
- 6 Could you run around the perimeter of a hectare in 60 seconds? Explain your answer.



Watch

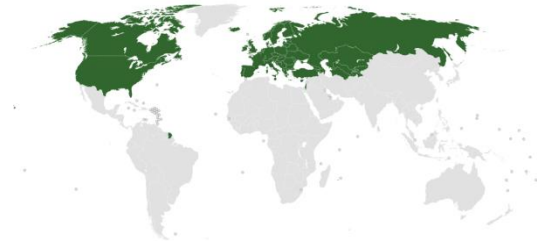


Answers

Forests and other wooded land in the UNECE countries cover nearly 1.9 billion hectares.

When it is mature, a forest contains roughly 200 tonnes of carbon per hectare.

Typical densities range from 1000 to 2500 trees per hectare.



1 Explain in your own words what a hectare is (ha). How many 1m^2 are there in a hectare?

10,000 m^2

2 How do forests help with carbon levels?

Capture carbon and store it

3 What is 1.9 billion rounded to the nearest billion?

2 bn

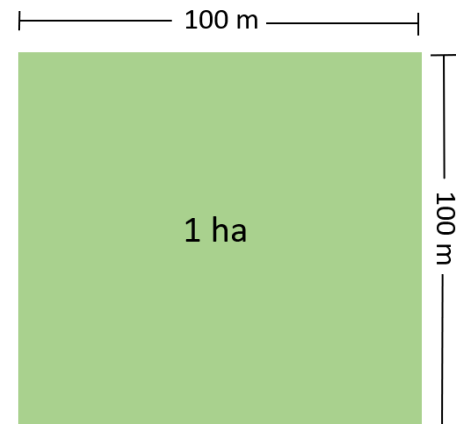
4 **Estimate** the amount of carbon in the forests in the UNECE countries.

2bn x 200 tonnes = 400 bn tonnes

5 How much space in m^2 do trees typically have?

4 m^2 to 10 m^2

6 Could you run around the perimeter of a hectare in 60 seconds? Explain your answer.



Watch



Home