The total of all marks is 40.
Good luck!

Topic 1: Hazardous Earth

Study Figure 1, which shows a plate boundary along the west coast of South America.

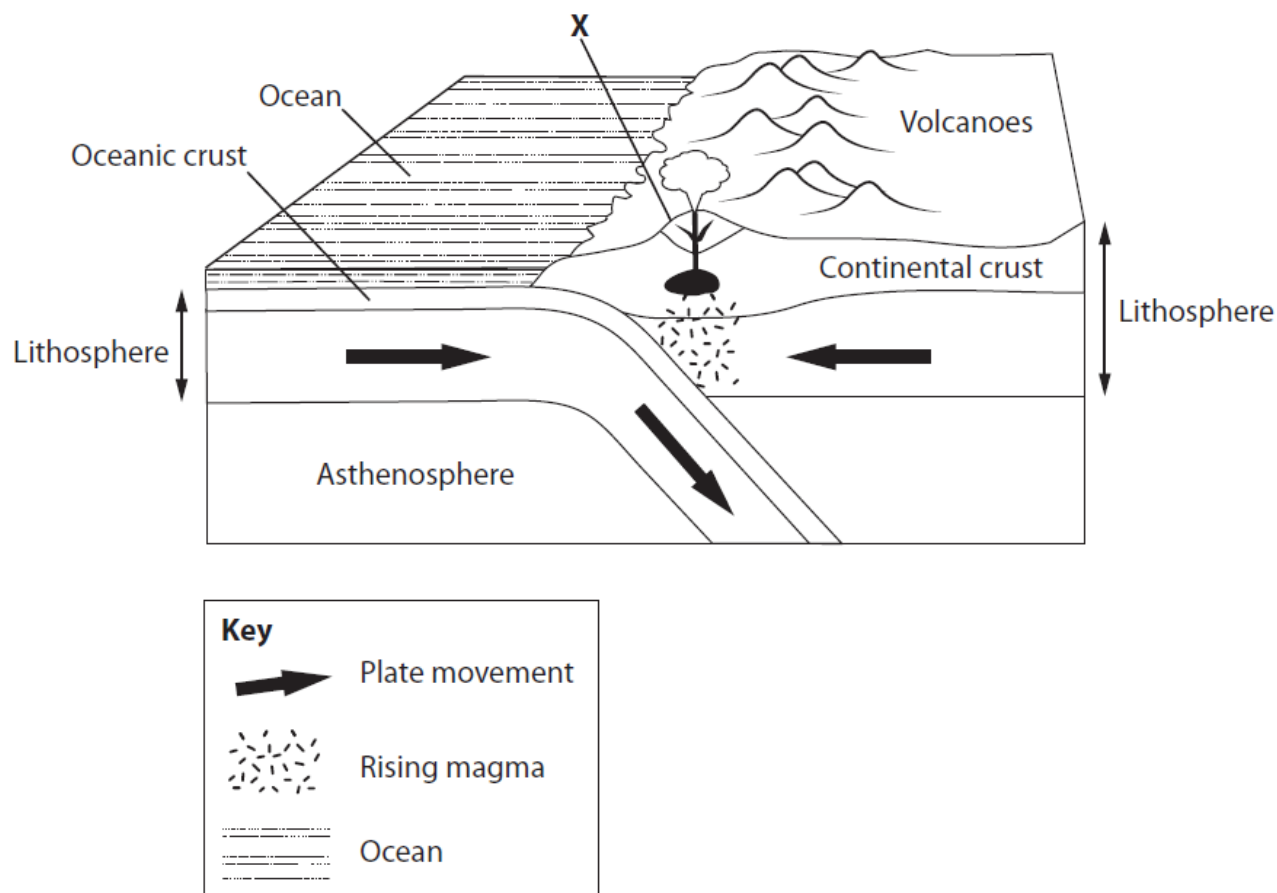

Figure 1

Identify the type of plate tectonic feature shown. *(max 1 mark)*

A) A divergent boundary
B) A hotspot
C) A convergent boundary
D) A dense oceanic plate converges with a less dense continental plate

Дополнительный тур на английском языке

Explain <u>one</u> cause of tectonic plate movement. *(max 3 marks)*

Your Answer

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Study Figure 2, which shows the area of ice in the Arctic Ocean each spring between 1978 and 2018.

Figure 2

Дополнительный тур на английском языке
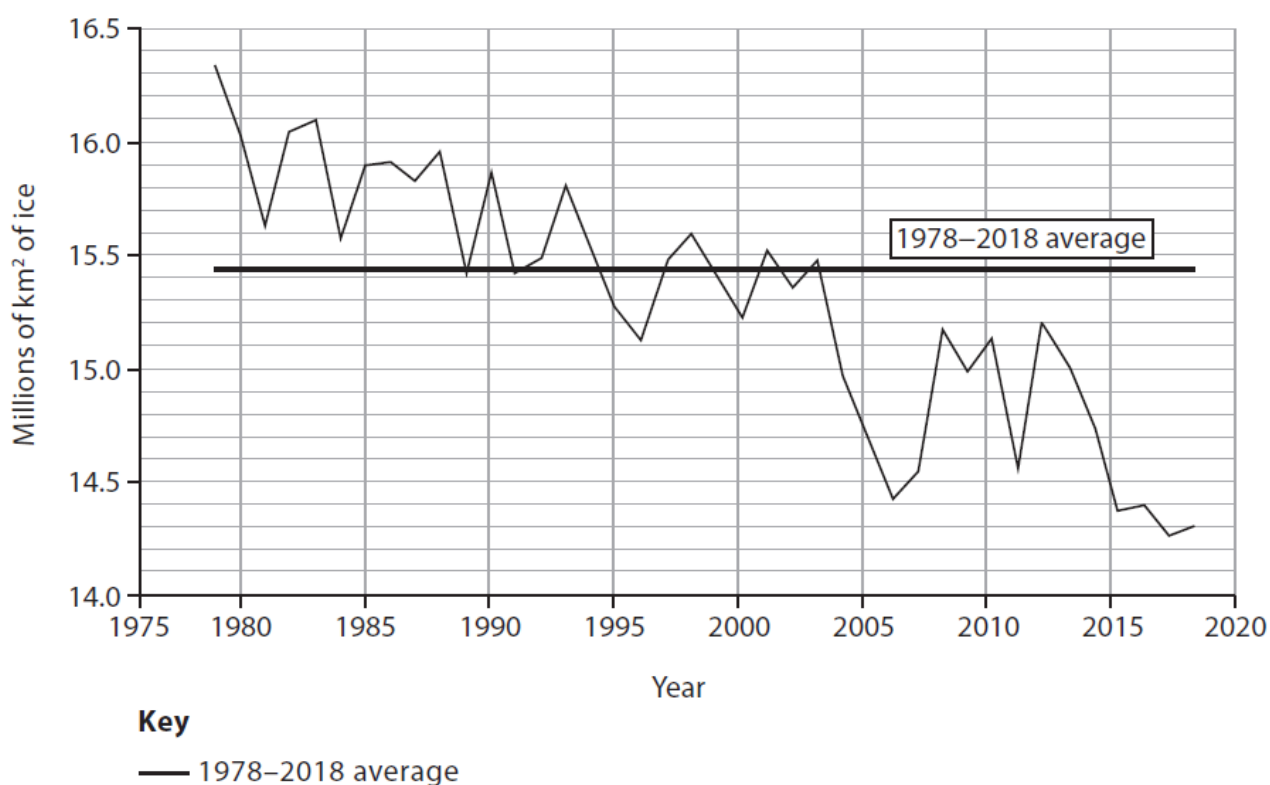
Describe the trend in the area of Arctic ice between 1978 and 2018. Use data in your answer. *(max 3 marks)*

Your Answer

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Identify <u>one</u> reason for the changing area of Arctic ice shown in Figure 2. *(max 1 mark)*

Your Answer

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Explain <u>two</u> ways in which changes in the area of Arctic ice may have consequences for people. *(max 4 marks)*

Your Answer

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Дополнительный тур на английском языке

Explain one piece of evidence of natural climate change. *(max 2 marks)*

Your Answer

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Study Figure 3, which shows sources of greenhouse gas emissions in the European Union for 1990 and 2018.
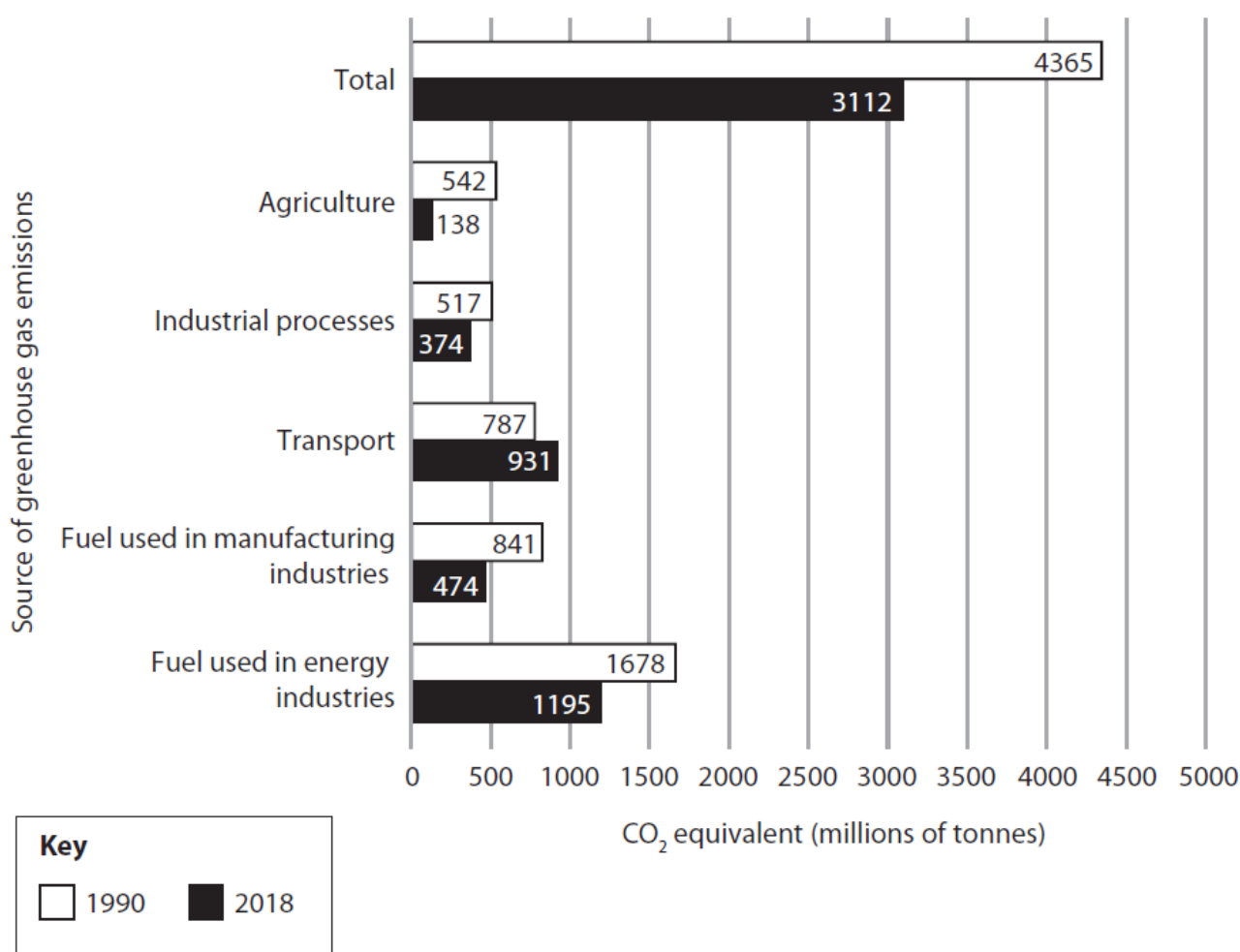

Figure 3

Дополнительный тур на английском языке

Calculate the percentage decrease in total emissions (CO_2 equivalent) between 1990 and 2018. Give your answer to one decimal place. Show your working below. *(max 2 marks)*

Your Answer

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Explain <u>two</u> reasons why tropical cyclones lose their energy. *(max 4 marks)*

Your Answer

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Дополнительный тур на английском языке

Topic 2: Energy Resource Management

Identify the correct definition of the term <u>fracking</u>. *(max 1 mark)*

A) Injection of liquid under pressure to release trapped gas in rocks
B) Planting of trees and crops that will be used for fue
C) Cutting down trees and using them for fuelwood
D) Polluting rivers with the waste from coal and oil extraction

State <u>one</u> reason why energy resources require sustainable management. *(max 1 mark)*
Your Answer

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Study Figure 4. State <u>one</u> possible reason why some people were against the development of wind power at this site. Use evidence from Figure 4 in your answer. *(max 1 mark)*

Figure 4. Wind turbines at Westermeerdijk in the Netherlands, a developed country

Дополнительный тур на английском языке

Your Answer

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Explain <u>one</u> advantage of using wind power to generate electricity. *(max 4 marks)*

Your Answer

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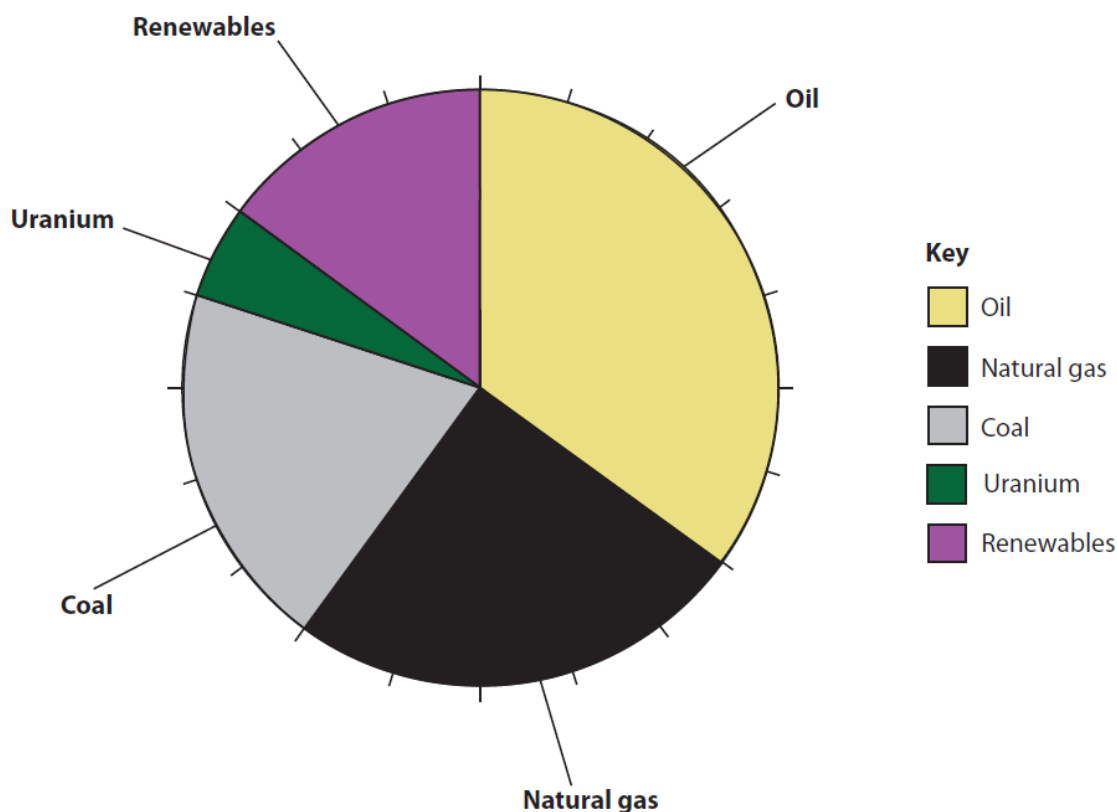**Study Figure 5. Identify the percentage of <u>renewables</u> in Germany's energy mix.** *(max 1 mark)*

Figure 5. Percentage (%) of energy resources in
Germany's energy consumption, 2018

7

A) 5%
B) 15%
C) 20%
D) 25%

Germany's total energy consumption in 2018 was 324 million tonnes of oil equivalent (Mtoe). Calculate the amount of energy consumption that was <u>oil</u> in 2018. You must show your working in the space below. Write your answer to one decimal place. *(max 2 marks)*

Your Answer

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Suggest <u>one</u> reason why <u>uranium</u> has the lowest percentage in Figure 5. *(max 2 marks)*

Your Answer

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Дополнительный тур на английском языке

Assess the reasons why the global demand and supply for energy resources has changed over the past 100 years. *(max 8 marks)*

Your Answer

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Дополнительный тур на английском языке