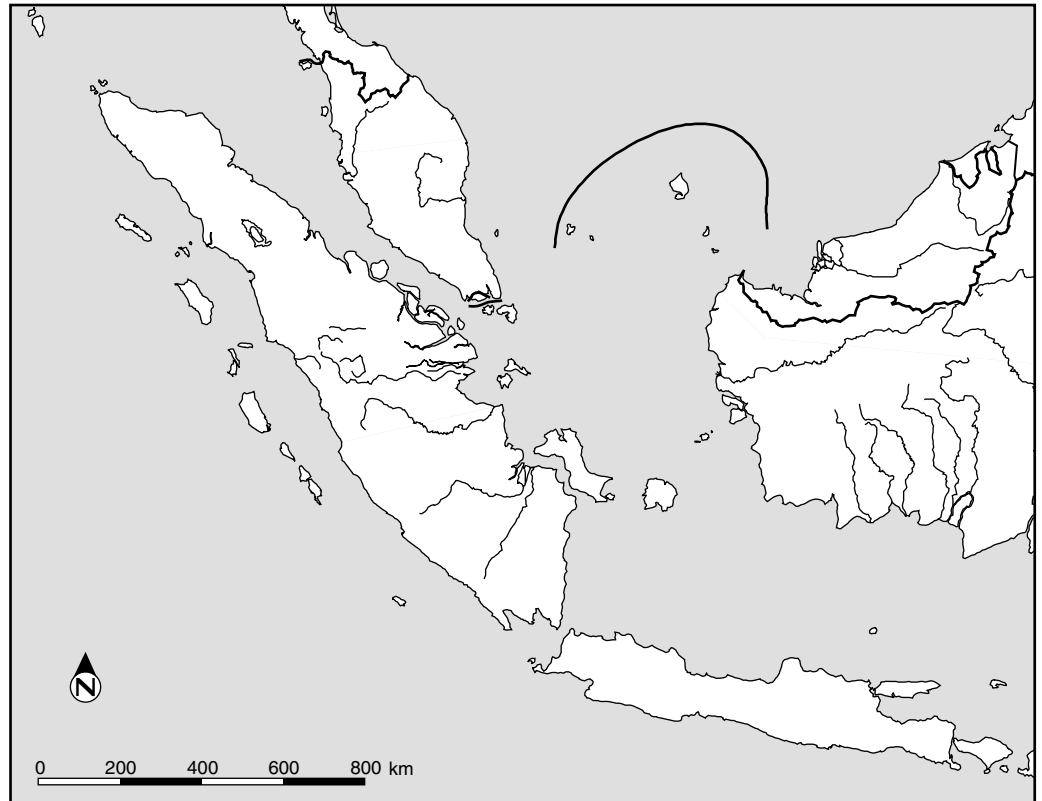


**DATELINE:** 1 August 2001. At least 64 people are dead and hundreds missing after floods and landslides on the Indonesian island of Nias, an island popular with surfers. Nias is located 100 km off the northwest coast of Sumatra. The landslides were caused by torrential rain and winds. It is also thought that three earthquakes recorded near the island may have contributed to the disaster. Indonesia is experiencing unseasonably high rainfall but environmentalists say deforestation caused by loggers and villagers needing firewood also contributes to such disasters.

- Using the outline map of western Indonesia provided and page 144 of the *Jacaranda Atlas*, mark in the following features:
  - the islands of **Nias**, **Sumatra** and **Java**
  - the **Indian Ocean**
  - Indonesia's capital city of **Jakarta**
  - the **Equator**



- Using the scale provided on the map on page 144 of the *Jacaranda Atlas*, estimate the distance from Nias to Jakarta. \_\_\_\_\_ km

- Indonesia is currently in its dry or low rainfall season. Using the annual rainfall map on page 143 of the *Jacaranda Atlas*, estimate the annual rainfall in millimetres of Nias. \_\_\_\_\_ mm

- It has been suggested that the landslides were caused in part by deforestation. Using the Indonesian Rainforest map on pages 146–147 and the information and diagram on page 43 of the *Jacaranda Atlas*, answer the following questions.
  - What percentage of the island of Nias was once covered in rainforest? \_\_\_\_\_
  - What percentage of the island of Nias is now covered in rainforest? \_\_\_\_\_
  - Besides landslides, what are two other effects of deforestation?

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- Australia's worst landslide occurred at Thredbo in 1997 when 20 people died. Using the diagram on page 73 of the *Jacaranda Atlas*, suggest the factors which contributed to this landslide. How are they similar or different to the factors which caused the Nias landslides?

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