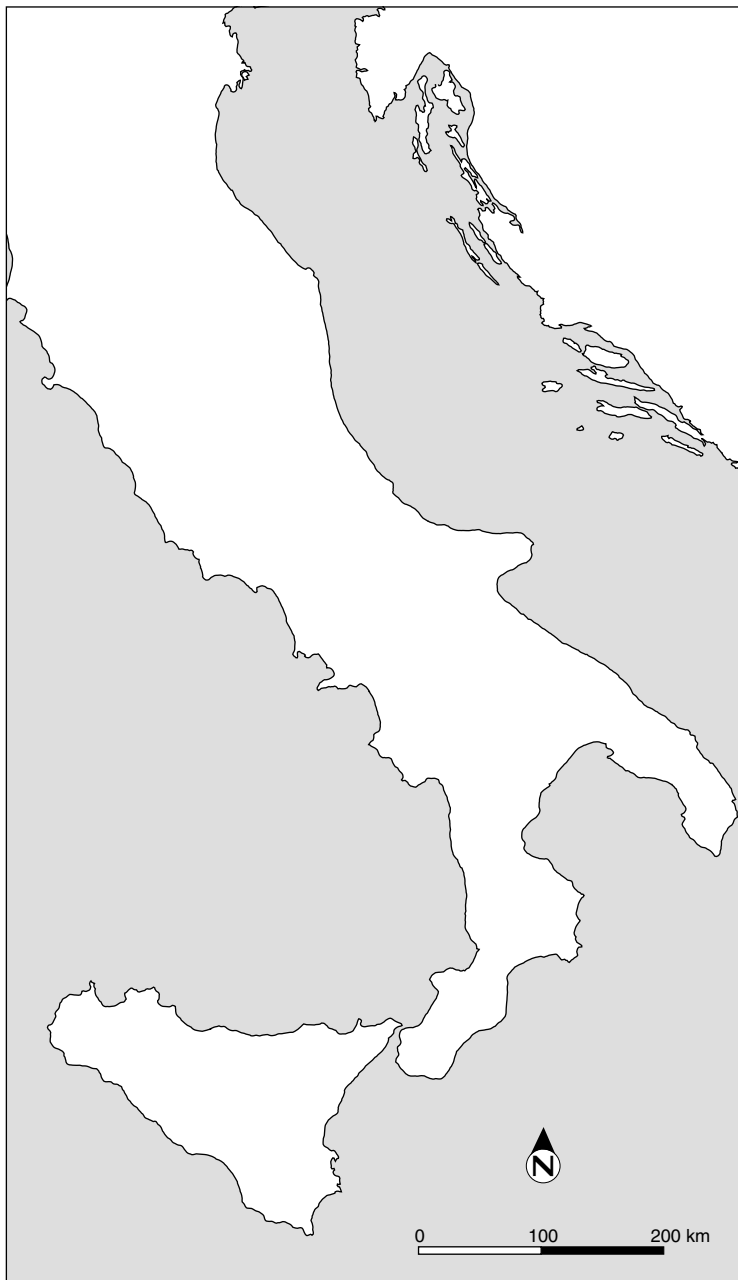


DATELINE: Catania, late October, 2002. The Italian government has declared a state of emergency in Sicily as Mt Etna erupts. Mt Etna is Europe's largest active volcano and has had four major eruptions in the last 309 years. Its last big eruption was in 1992. This most recent eruption occurred after a series of earthquakes. Lava is flowing down the southern and northern slopes and ash has been falling on Catania and drifting across the Mediterranean Sea as far away as Libya.

- Using the outline map of southern Italy below and page 168 of the *Jacaranda Atlas*, mark on the following: **Italy, Sicily, Mt Etna, Catania, Mediterranean Sea, Rome, Naples, lines of latitude 38°N and 42°N, line of longitude 16°E.**



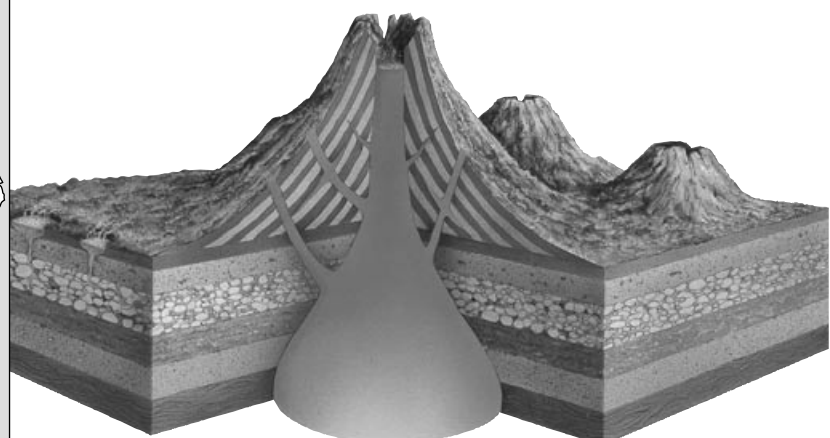
Map of southern Italy

- Using the map on page 8-9 of the *Jacaranda Atlas* as your source, answer the following:
 - In what year did Mt Etna erupt killing 20 000 people?

 - Name two other famous Italian volcanoes and the dates of their eruptions.

 - Mark these on the map at left.

- Using the information and the diagram on page 9 of the *Jacaranda Atlas*, add the following labels to the blank diagram to explain how a volcanic eruption occurs: **main volcanic vent, branch pipe, magma chamber, pressure from gas and magma forces magma up the main vent and branch pipes, ash and gas explode from the crater, ash settles in a layer over the volcano, lava covers the ash and solidifies.**



Volcanic eruption

- Using the map on page 182 of the *Jacaranda Atlas* and its scale, estimate the distance from Catania to Tripoli in Libya.

_____ km