

DISCOVERING VOLCANIC LANDSCAPES

Geographical fieldtrips for schools



ADVANCED VULCANISM

CROSCAT-SANTA MARGARIDA: A VOLCANIC SYSTEM AND ERUPTION SEQUENCE WITH TWO CINDER CONES AND A LAVA FLOWS

SITES VISITED

Volcanoes of Santa Margarida, Croscat and Pomereda
La Fageda d'en Jordà, a beechwood on a lava flows

TOPICS

Plate tectonics
European Rift
Different types of eruptions
Eruptive systems: the sequence of a complex volcanic eruption
Analysis of volcanic material: pyroclasts and lava flows

CONTENT

Plate tectonics
World distribution of volcanic and earthquake risk zones
Types of eruptions and their outcomes
Analysis of volcanic materials



We meet at 10 a.m. in the car park at Santa Margarida to begin the walk up to the crater of the volcano of the same name. This cinder cone was formed by the first phase of the eruption and the crater's width gives us some idea of the initial power of this eruption.

We then head for Croscat to continue our study of the volcanic sequence. This volcano is the youngest in the Iberian Peninsula and its pyroclastic deposits provide clues as to the 2nd to 5th phases of this eruption, now Strombolian in nature.

Next we visit La Pomereda, where the lava flow from the final effusive phase is revealed. Finally, we visit the Fageda de'n Jordà, a beechwood standing on Croscat's 'aa' lava flow, where we can walk on its roughened surface and visit some of its remarkable blisters.

An ideal visit for discovering the true nature and power of volcanic eruptions and just how they mould and influence the landscape.