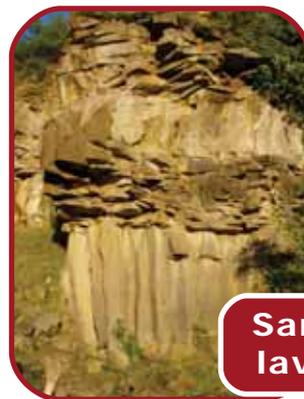


GEOGRAPHICAL FIELD TRIPS IN A PROTECTED VOLCANIC LANDSCAPE

Study trips in the heart of La Garrotxa Volcanic Zone Natural Park led by local English-speaking guides aimed at discovering the secrets of the local volcanic landscape – the largest in the Iberian Peninsula - and the impact of this protected area on the local population and landscape.



**Volcanic
landscape**



**Sant Joan:
lava flows**



**Croscat
volcano**

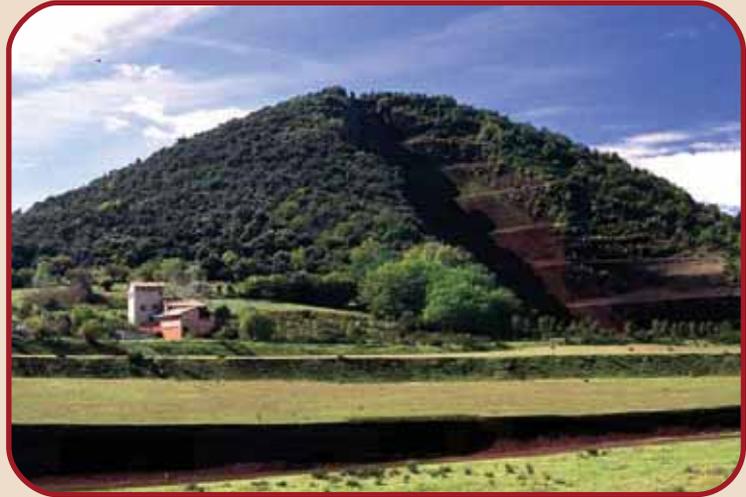


**Santa Margarida
volcano**

Educational activities are based around guided fieldwork in and around the volcanoes and visits to the protected area, using materials that have been especially designed for this type of activity. Walks up and into craters, inside volcanoes, across lava flows and to the base of basaltic cliffs are combined with visits to the local volcano museum and natural park facilities.

VULCANISM - three levels

1. **BASIC** – a simple introduction to the local volcanic landscape and its relation to the main volcanic features.
2. **SPECIFIC** – a more advanced look at three overlapping lava flows (e.g. retraction habitats), cone morphology and land-use on the natural park.
3. **ADVANCED** – a broader, more general look at volcanic activity leading to a detailed study of volcanic materials and the six eruptive phases of the volcano Croscat, the largest and youngest in the Iberian Peninsula.



TOURISM



1. **HUMAN IMPACT IN THE NATURAL PARK**-- an introduction to the role of the Natural Park (including vulcanism) in local peoples' lives and the impact they have on the Natural Park and its work.
2. **LA GARROTXA AS AN EXAMPLE OF TERRITORIAL MANAGEMENT** – a detailed case study of the park's role in local territorial management via a role-play aimed at generating debate regarding the many conflicting interests that the park's management teams has to try and take into account.

ECO-SYSTEMS STUDY

On this day, students can complete a comparison study of the vegetation on the northern and southern slopes of Santa Margarida volcano; compare the kind of vegetation growing in a crater or simply observe the different species as you increase in altitude.

Each group will be provided with equipment to carry out the investigations if required (clinometer, PH meter, thermometer, psychrometer) or alternatively you can visit a nearby beech forest growing in a lava flow.



TORDERA RIVER STUDY

SITES VISITED

Upper, mid- and lower course of river Tordera
Delta of river Tordera at Blanes

TOPICS

Data-collection: river width, depth, gradient, discharge
Land-use
Use of equipment
River processes: erosion, transportation, deposition



CONTENT

Use of measuring tapes, flowmeters, clinometres, etc. to describe three different points on the course of the river Tordera.

A detailed educational resource pack will be provided that is suitable for students of Key Area 2 and Key Area 3

DISCOVERING VOLCANIC LANDSCAPES



The activities includes:

- Power point presentation detailing information and images about the area
- Summary table of geography study themes and investigations
- Teacher information sheet on each site
- Student activity sheets
- Teacher answer sheets
- Fieldwork equipment list
- Student kit list
- Exclusive specialist Garrotxa guides



"... all the members of the team of DISCOVERING VOLCANIC LANDSCAPES are fully accredited Natural Park guides. Between them have over 30 years experience working in the Natural Park as guides and teachers and collaborating with its projects. They all have a long experience in working with groups of all sizes and types in environmental education. Their respective projects and educational programs have always fully met all the Park's quality criteria"

Xavier Puig
Director, La Garrotxa Volcanic Zone Natural Park

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