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Fluid behaviour in the upper crystalline crust : a multidisciplinary approach



# Fluid behaviour in the upper crystalline crust : a multidisciplinary approach

# **Fact Sheet**

Project Information

Grant agreement ID: JOU20318

Project closed

Start date 1 January 1994 End date 31 December 1996 **Funded under** Specific research and technological development programme (EEC) in the field of non-nuclear energy, 1990-1994

Total cost No data

**EU contribution** No data

Coordinated by UNIVERSITY OF LEEDS

## **Objective**

To establish the conditions under which fluids are present in the upper crystalline crust, and to investigate their source and the nature, timescale and dynamics of their interactions with host rocks.

The work will pay particular attention to the relationship between tectonics and crustal fluids, and the role of fluids in heat and mass transfer. It will address the discrepancies between geophysical and petrogeological interpretations of the

importance of fluid in crystalline rocks in stable crustal areas, using textural studies to investigate the relative timing and continuity of fluid flow episodes. This will be achieved primarily by integrating the study of palaeofluids preserved as inclusions in mineral veins with geochemical modelling of fluid-rock interactions.

The project will investigate examples of rocks from a variety of tectonic settings, including both systems in which contemporary activity is continuing and fossil systems. The work will include investigation of the structural controls on the development of veins and other fluid flow pathways, textural studies of mineral growth and fluid trapping, measurement of fluid density and, hence, estimation of depths and temperatures of trapping. Chemical studies will be aimed at defining individual fluid zones and equilibria with different mineral phases at different times in the system.

The work will draw on drill cores from Soultz (France) and Larderello (Italy), and on outcrop material from Portugal and Spain. Other field areas will be selected as work proceeds.

## Programme(s)

FP3-JOULE 2 - Specific research and technological development programme (EEC) in the field of nonnuclear energy, 1990-1994

## Topic(s)

0306 - Deep reservoir geology

#### Call for proposal

Data not available

#### **Funding Scheme**

CSC - Cost-sharing contracts

#### Coordinator

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**UNIVERSITY OF LEEDS** 

EU contribution	
No data	
Total cost	
No data	
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Total cost
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