

## ALIANCE

**Project ID:** EVK1-CT-2001-00091

**Funded under:** [FP5-EESD](#)

### Advance logging investigations of aquifers in coastal environments

**From** 2002-01-01 **to** 2005-07-31 | [ALIANCE Website](#)

#### Project details

<b>Total cost:</b> EUR 4 055 271	<b>Topic(s):</b> <a href="#">1.1.4.-1. - Key action Sustainable Management and Quality of Water</a>
<b>EU contribution:</b> EUR 2 119 868	<b>Funding scheme:</b> CSC - Cost-sharing contracts
<b>Coordinated in:</b> France	

#### Objective

The goal of ALIANCE is to improve the investigation, characterisation and monitoring of coastal aquifers for vulnerability assessment. For this, ALIANCE proposes to develop a set of geophysical approaches for the quantitative evaluation of brine intrusion. This includes state-of-the-art geological, geochemical, petrophysical, logging and hydrological methods, and the design of 5 new geophysical and hydrodynamical logging/testing sensors yielding new data for model validation. Two end-member sites in terms of hydrogeological behaviour will be set up for long-term experimentation, the testing of the new tools, and the validation of site-specific experimental and modelling protocols from  $\mu\text{m}$ - to 100 m-scale. Active in-site testing from short and longer-term injections with variable salinity fluids will simulate over drafting or saline water intrusion. The electro-hydraulic coupling principle will be used to characterise and monitor water/brine hydrodynamics in coastal environments.

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## Subjects

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[Economic Aspects - Environmental Protection - Social sciences and humanities](#)

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