

# Underwater geothermal resources in the North of the Gulf of California

In order to find sustainable sources of underwater energy which can be tapped, this project is working on the nature of hydrothermal energy within the tectonic context of the Wagner and Consag Basins (Gulf of California, Mexico). Moreover, it seeks to determine the energy discharge from heat flow maps and physicochemical parameters at the seabed. This will us to obtain an estimate of the probable geothermal resources that exist in this sea area. Multibeam echo sounders, data from the Topas profiler and the side-scan sonar will

be used to determine the geomorphological nature of these basins, which will allow us to build detailed bathymetric maps. We shall also study water/rock interaction processes from samples collected by the unmanned robot submarine (ROV) which shall allow us to determine the nature of the bed at depth. The result of these joint scientific studies between European and Mexican institutions will give us highly-qualified human resources, as well as implementing long-term projects for future exploitation of underwater geothermal sources.



**Project Coordinator:**

Instituto de Geofísica, UNAM, Mexico City, Mexico

**Partners Countries:**



**Partners:**

- Instituto de Ciencias de la Tierra, CSIC, Barcelona, Spain.
- Instituto Politécnico Nacional, Mexico City, Mexico.
- National University of Ireland, Ireland.
- Universidad Politècnica de Catalunya, Spain.

**Total Cost:**

MX\$16.068.251,00/€1.002.098,65

**FONCICYT Contribution:**

MX\$9.148.251,00/€570.531,91

**Time Frame:**

22 months

**Employees:**

28

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Non-nuclear Energy

