

● HYDROGEOLOGY RESEARCH GROUP – UNIVERSITY OF MÁLAGA (GHUMA)



INTRODUCTION

The Research Group of Hydrogeology of the University of Málaga (GHUMA) studies groundwaters and their interaction with surface waters, the functioning and management of aquifers, the abstraction of groundwater intended for human consumption, irrigation and other uses as well as the protection of groundwater resources against contamination and the implementation of European Directives on water issues. This Research Group also focuses his activity on karst geodynamics by means of geological studies in caves located in carbonate terrains. After a productive cooperation with the Geological Survey of Spain (IGME), in 2006 the two institutions intensified their relationship through the creation of the Associated Unit "Advance Hydrogeological Studies". Afterwards, the Centre of Hydrogeology of the University of Málaga (CEHIUMA), in which the research group has been included, was set up by the University of Málaga in response to the growing demand for water and to the problems encountered in this respect, in both its quality and its quantity, especially among Mediterranean countries.

RESEARCH TOPICS

- Hydrogeological characterisation of aquifers.
- Groundwater protection.
- Groundwater contamination.
- Hydrological and hydrogeological characterisation of wetlands.
- Geological studies in karstic caves.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment and abstraction of groundwaters.
- Studies on vulnerability and risk of contamination. Groundwater protection.
- Groundwater contamination from different sources of pollution (urban, agricultural and industrial sources).
- Establishment of wellhead protection areas and safeguard zones in bodies of groundwater.
- Use of hydrochemical and isotopic techniques to delineate and characterise bodies of groundwater
- Studies on karstic caves (tourist caves).

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