

GLOBAL CHANGE RESEARCH LAB



INTRODUCTION

The Global Change Research Lab conducts its scientific activity around several strategic research lines that address the main challenges of global change. The group specializes in the use of Geographic Information Systems (GIS), remote sensing, spatial modeling, and other digital tools for territorial analysis and management. It is composed of an interdisciplinary team of researchers from the University of Málaga (UMA), Pablo de Olavide University (UPO), public administration, and private companies, bringing together specialists in Geography, Environmental Sciences, Engineering, Sociology, and Economics.

RESEARCH TOPICS

- Natural hazards and climate change.
- Land-use planning and management.
- Water resources and water scarcity.
- Urban planning and sustainability.
- Mediterranean forest systems.
- Multi-criteria assessment under climate change scenarios.
- Political ecology and ecological economics.
- Geographic information technologies.
- Citizen science.

SCIENTIFIC-TECHNICAL SERVICES

- Solutions based on Geographic Information Technologies (GIT) and Environmental Remote Sensing.
- Citizen science and public participation.
- Environmental risk analysis and assessment.
- Analysis of environmental trends and multi-criteria assessment under climate change scenarios.
- Territorial diagnostics.
- Application of sustainability models and development of indicators.
- Training in GIT and social research methodologies.

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