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Onsite: h.16 - Aula Ruffini *Dipartimento di Scienze della Terra, Torino*

Remote: [via webex at this LINK](#)

Water quality indexes and definition of risk areas – a contribution to management decision in transboundary watersheds

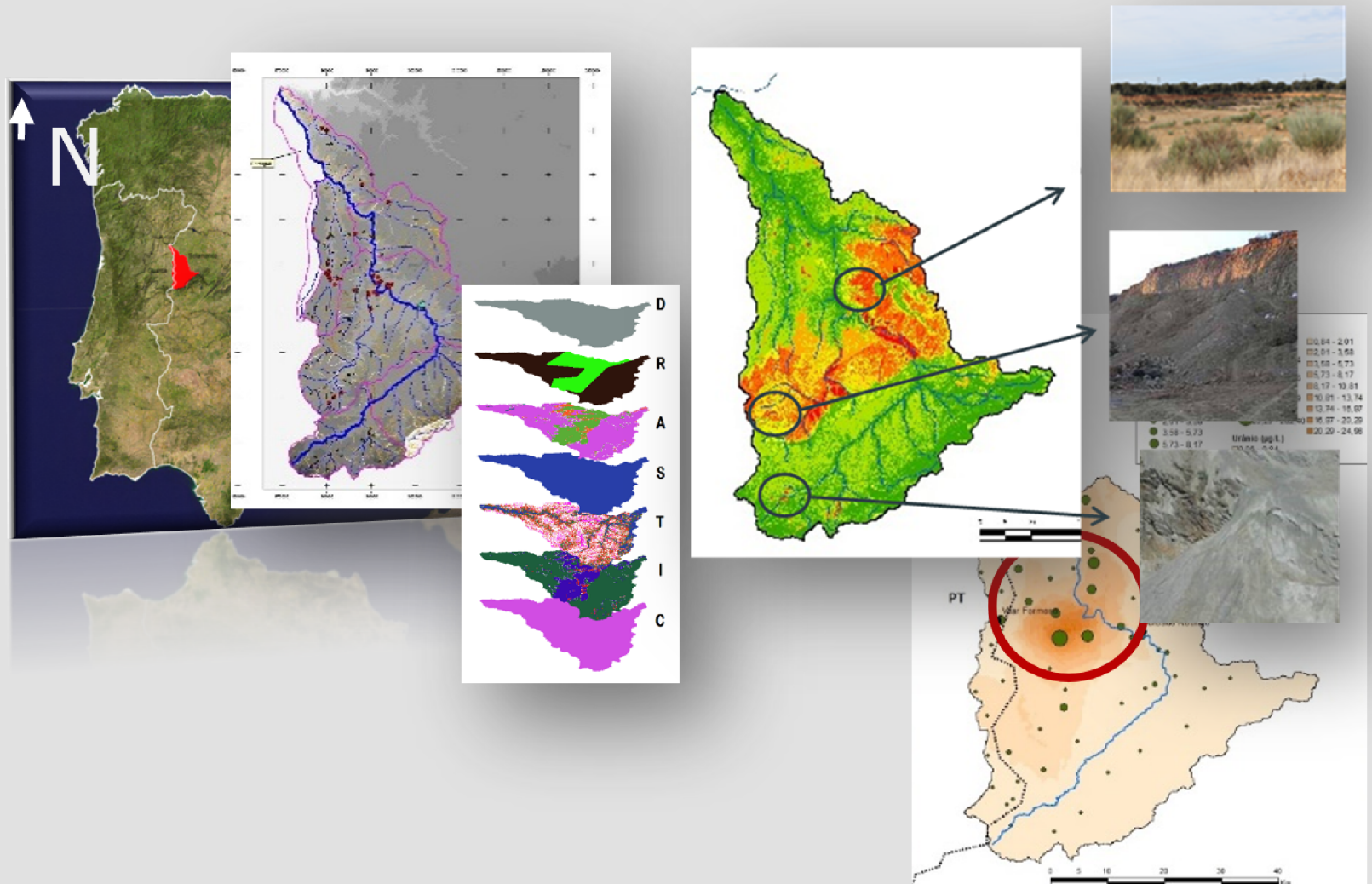
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Water quality indexes have become a useful tool for water contamination prevention and are essential to water resources management. Groundwater is an essential and strategic resource for social and human development, especially in regions with water scarcity and cyclical droughts. It is imperative to develop appropriate tools for effective monitoring and assessment of water management resources at the watershed scale.

The Águeda transboundary watershed is in the central west of the Iberian Peninsula extending between Portugal and Spain, with a total area of 2290 km² and covering about 80 local municipalities, with a population around 49000 inhabitants. The agriculture is the dominant activity, however different mines have been exploited on the region. The main purpose of this research is the spatial definition of risk areas and water quality indexes as a support to a watershed management.



The Speaker

Margarida Antunes is Professor at the Department of Earth Sciences, University of Minho (Portugal), and researcher in Environmental Geochemistry and Hydrogeology, focus on surface and groundwater contamination, urban Hydrogeology and environmental geochemistry. She is a senior member of the Institute of Earth Sciences and participates in several international R&D projects. She is author/co-author of more than eighty scientific published papers and book chapters, and about a hundred publications in conferences. With a participation in the Scientific Committee of international conferences, and as editorial board of scientific journals. Expert from the Research Executive Agency and is a member of different international Associations.

