

#### Session title

Environmental tracers to investigate the anthropogenic impacts on groundwater

#### Description

Aquifer systems are increasingly affected by anthropogenic pressures, raising concerns about groundwater quality and quantity. Chemical ions and isotope tracers provide powerful tools for identifying contamination sources and unraveling hydro-bio-geo-chemical processes controlling groundwater chemistry evolution. Advances in environmental tracer-based approaches enable for an improved assessment of human impacts on groundwater systems and groundwater dependent ecosystems including wetlands, springs, and tributaries. It is in this context that we encourage contributions that apply chemical and/or stable/radiogenic isotope tracers to demonstrate anthropogenic influences, to investigate controlling processes, to assess impacts on groundwater systems and related ecosystems, and to develop new tracer-based methodologies.

#### Keywords

Geochemistry, Stable and radiogenic isotopes, water contamination, aquifers.

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