

Forest and water in seasonal headwater catchments

Project description

The relationship between forest cover and water resources is complex and still relatively poorly understood. Historically, the role of forest on streamflow has been the subject of much debate and controversy, due to the diversity of results obtained in headwater catchments. This diversity results both from the variety of methodologies used to evaluate the hydrological role of forest (type of forest management, way of evaluating the hydrological impact, etc.) and from the climatic variability (and seasonality!) associated with headwater catchments where the results have been obtained.

This JAE Intro SOMdM-CSIC collaboration scholarships 2021 offer, aims to deepen current knowledge on the hydrological role of forest in seasonal headwater catchments. The candidate will be in charge of creating an ecohydrological database from the review of a set of scientific papers already selected. This database will be the starting point for an ecohydrological analysis of the role of forest using a new methodology aimed at standardizing the results and facilitating their inter-comparison. This ecohydrological analysis in seasonal headwater catchments will ultimately allow the integration of the results obtained on the Vallcebre research catchments, by the surface hydrology and erosion research group (SHEg) at IDAEA, into a broader framework.

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