

Submitted Abstract

ID IMC22-FSAbstr- 906

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Country	Spain
Region	Western Europe
Title	Climanevada: A New Integrated Climate Database For Sierra Nevada (Southern Spain).
Keywords	Keywords
Type	List Of Focus Session
Focus Session ID	37

Abstract

A good regional climate characterization is a key aspect for monitoring the environmental and socioeconomic effects of global change, especially in mountain regions. However, climate data for many mountain areas comes from a variety of sources that are both heterogeneous and dispersed, making accessing and downloading these data a difficult and time-consuming operation. In this work, we present ClimaNevada, a robust database on climatic information in Sierra Nevada (Spain), which harmonizes, documents, and integrates climatic data from meteorological stations and sensors of different institutions and sources. In this way, we have developed a platform that compiles all the climatic information and allows the downloading of data in a simple way and following the Open Access philosophy. Additionally, a case study is presented in this work in which homogeneous data series are generated from ClimaNevada, for the evaluation of temporal trends of precipitation in Sierra Nevada.

This work is part of Smart EcoMountains, the Thematic Center on Mountain Ecosystems of LifeWatch-ERIC.