



Web-based toolbox for water decision making in Spanish reservoirs

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S-ClimWaRe is a climate service for improving water management in Spanish reservoirs. As part of this climate service, a web-based toolbox has been developed. The main goal of this website is to make available to water managers several tools for supporting decision-making process on Spanish reservoirs. This toolbox has been designed and developed by a multidisciplinary team of meteorologists, water researchers and technicians and water managers.

The website is organized in two main areas. The first one allows the user to explore, at any water reservoir or grid point over continental Spain, the hydrological variability and risk linked to climate variability. This is performed through a set of selected diagnostics obtained from time series of hydrological and meteorological observations and NAO index as main climate driver. The second main area of S-ClimWaRe provides seasonal forecasts on both dam water inflow and precipitation, complemented by skill information on seasonal forecasts.

As a whole, this web-based toolbox provides a useful way for specialists and non-specialists to explore the relationship between variables and climatic drivers, so providing support for the decision-making processes on Spanish reservoirs.

Currently North Atlantic Oscillation is the only driver implemented for display and forecasts are initially developed only for the extended winter period NDJFM. Through the MEDSCOPE project new relationships with different climatic drivers are being explored and improvements on the forecasting skill and different forecasting periods are expected. The system is being designed to be flexible with respect to sources of seasonal forecasts and easy extension to additional drivers, variables and seasons.