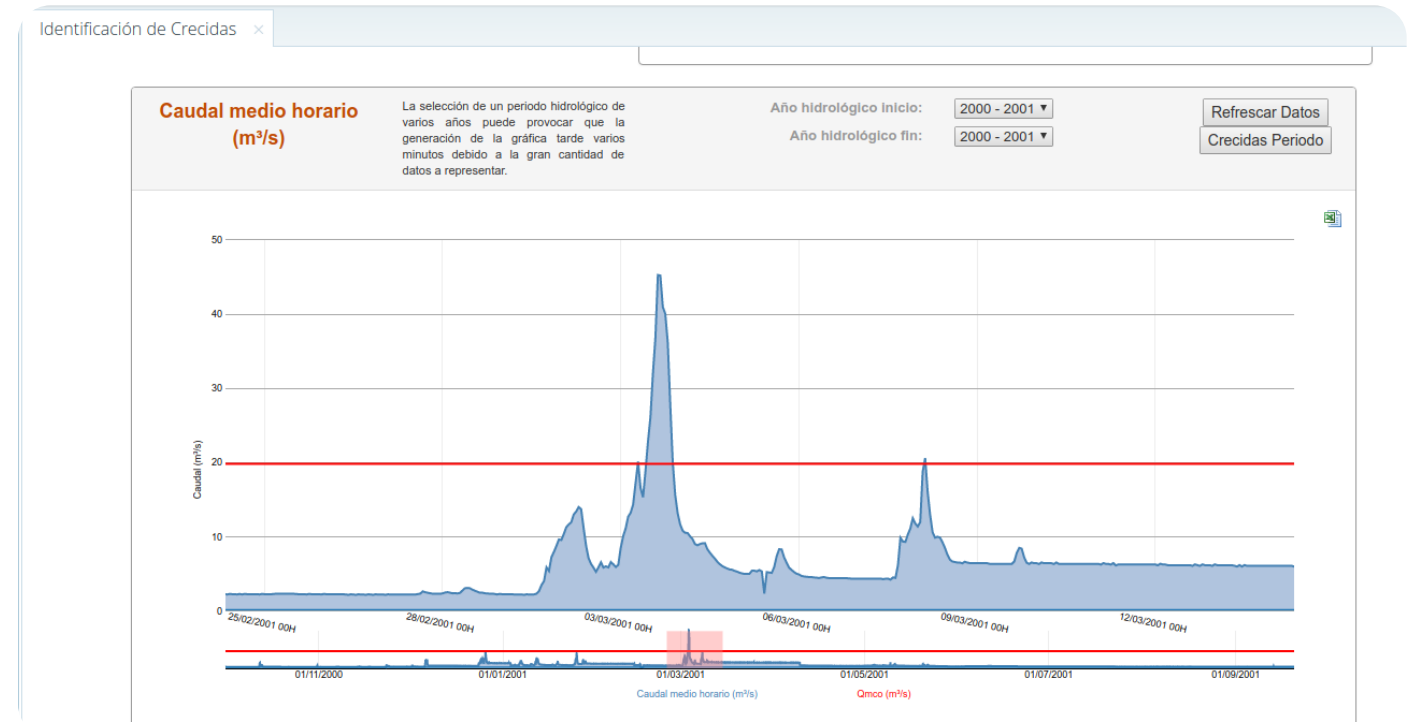


SWIRL Scenario-based Water Innovation and Research Laboratory

The Portal

The portal features a navigation menu with options: Home, What is Swirl?, Capabilities, Knowledge Areas, Framework, Quick Access, News, and Login. Below the menu is a banner image of a lake with the text "Scientific collaboration tool for water research". Underneath, there are two knowledge area cards: "Water Quality" and "Water Resource Status", each with a small image and a brief description.

Flood Analysis



Advanced Modelling

The screenshot shows an RStudio session with R code in the console. The code includes comments in Spanish and R functions for data manipulation and plotting. A plot titled "Caudales pico anuales, Río Corbones 1997-2016" is displayed, showing annual peak discharge (m³/s) on the y-axis (0 to 6000) against time (T (año)) on the x-axis (1 to 100).

Level 3. Modelling

This section contains four icons: "HEC-HMS" (a map of a watershed), "Run models in R" (a map with a blue circle), "Designing with RStudio" (a screenshot of the RStudio interface), and "Post results in web" (a Shiny web application interface).

Level 1. Statistic Analysis and Statistical Lab

Level 2. Geospatial Analysis

This section contains three icons: "Statistic Analysis" (a bar chart), "Statistical Lab" (a line graph), and "Geographical Viewer" (a map interface).

Web Services - Open Data

The interface shows a map of a region with various data layers. A sidebar on the right lists "Todos los fenómenos" (All phenomena) including: Aportación al embalse, Caudal de río, Caudal de salida en embalses, Caudal en manantial, Dirección del viento, Humedad relativa, Nivel de embalse, Nivel de río, Nivel piezométrico, Precipitación, Presión atmosférica, Radiación solar, Temperatura exterior, Temperatura interior, Velocidad del viento, and Volumen de embalse.