

Field trip to Loue valley – the Loue and Lison springs

Overview

Guided by hydrogeologists from the French Geological Survey (BRGM), the participants will have the opportunity to visit two of the most spectacular springs of France, situated in the Jura Mountains at only 1 hour from Besançon city.

The main goal of this excursion is to present some characteristics of the karst hydrogeology in the Jura Mountains, by discovering the main geological and karstic curiosities of the beautiful Loue valley. The impact of land-uses on surface water and groundwater quality in jurassian cultivated catchments will be addressed by presenting some recent results on the fate and transport of nutrients.

Provisional list of stops:

- View and geological description in the upstream sector of the Loue steephead valley;
- Loue spring: description of the site and of the hydrogeological characteristics of the resurgence coming partly from the Doubs river losses. A focus will be done on the relationships between the Doubs losses and the Loue spring and their influence on the groundwater quality;
- Lison spring: description of the hydrogeological relationship between the “Creux Billard” (lost chasm) feeding the spring, the Lison spring, and the Sarrazine cave (overflow)
- Visit to a Jura wine cellar and tasting (Arbois area)



- Loue spring (left) and Lison spring (right) – © Brgm