



Tutorial for the DRYRivers web application

12/10/2021

Introduction

The **aim of the DRYRivers app** is to enable citizens to collect information about drying events. With this field information, citizens will contribute to the mapping of drying rivers and will help to improve scientific predictions of the future impacts of climate change in these ecosystems.

This tutorial is for the DRYRivers web application, which can be accessed through a web browser at this URL: <https://www.dryver.eu/app>

There is also a DRYRivers mobile application. For more info on the mobile app, please follow this link: <https://www.dryver.eu/citizen-science/introduction>

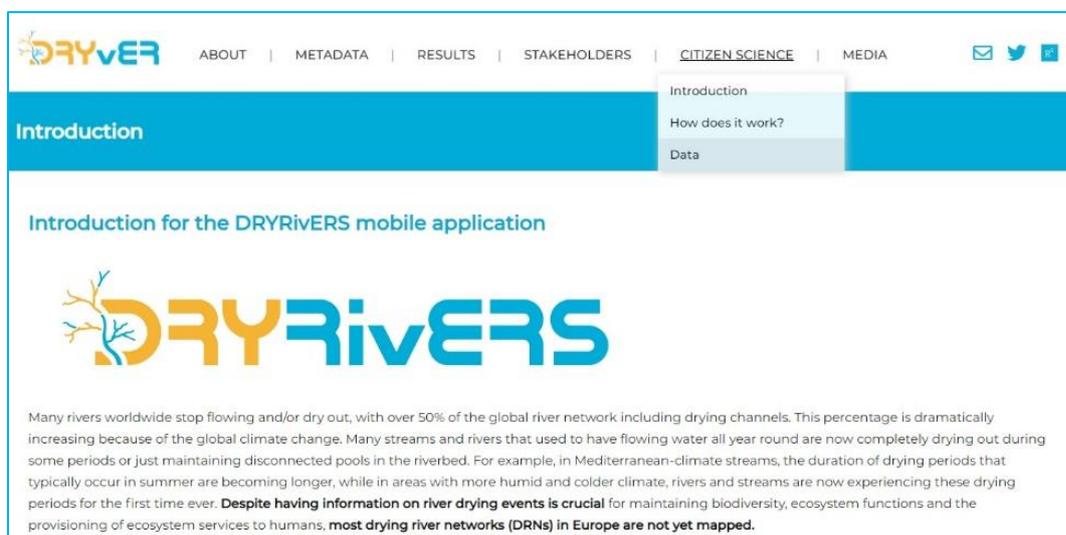
Table of Content

Accessing the web application	2
Signing up or Logging in	2
Navigating on the map and viewing existing spots or records	4
Navigation on the map.....	4
Viewing existing spots or records	4
Menu items	5
Adding and editing spots or records	5
Adding new spot	5
Adding new records to existing spots	6
Editing existing spot or record	6
Downloading records	7
Using the Time machine	8
Statistics	8



Accessing the web application

The web application can be accessed through a web browser at this URL: <https://www.dryver.eu/app> or by visiting the DRYvER website (<https://www.dryver.eu/>) and navigating to **Citizen Science** → **Data**.

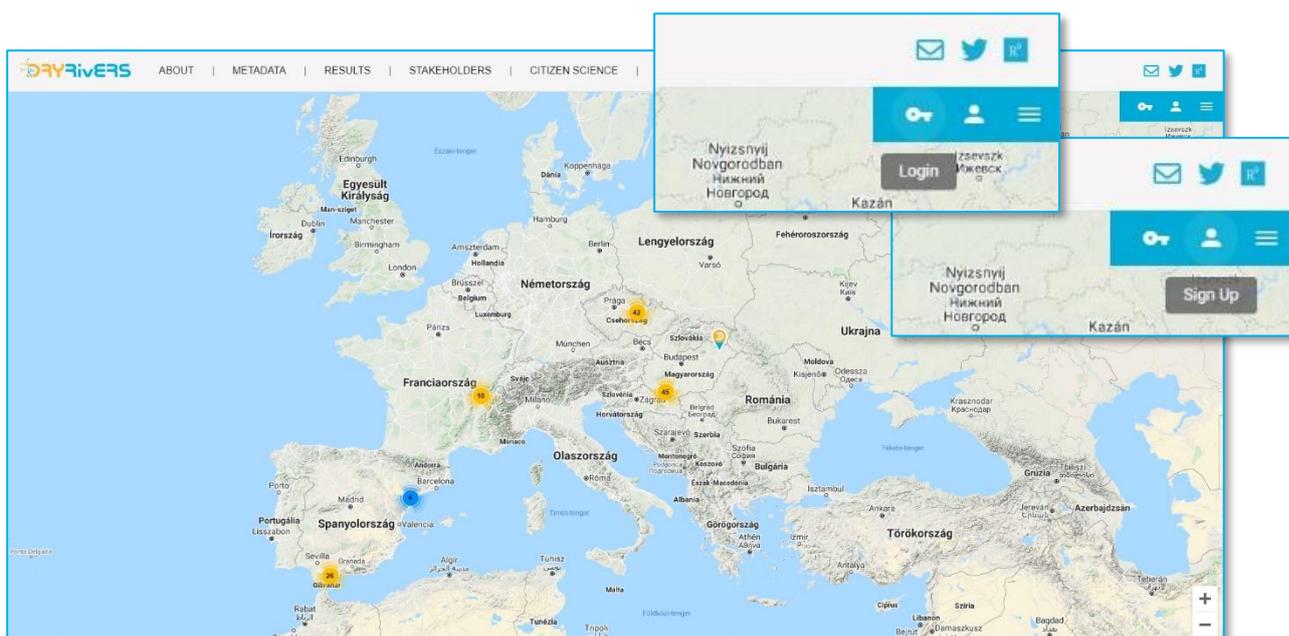


Signing up or Logging in

Please note, that without registration it is only possible to view existing spots (locations on the map indicated by a marker) and records (repeated observations of the same spot).

If you wish to create new spots or records, use the time machine, view statistics, or download data, you must sign up or log in with an existing account. In order to do that, click the **Log in (key)** icon or **Sign up (person)** icon and then fill out the requested information.

In case you have created an account in the DRYRivers mobile application, you can use that to log in to the webapp too.



When signing up, you have the possibility to stay anonymous and register without name. **Mandatory information is the Username, Email, Password**, and you must also agree to the **Terms and Conditions** to complete the registration. You will receive a notification on the successful registration, and you will need to **verify your email** address via the sent email. If you do not see the confirmation email in your inbox, please check the spam folder or the promotions (Gmail) folder.

The image shows two screenshots related to the sign-up process. The left screenshot displays the 'Sign Up' form with fields for First name, Last name, Username, E-mail, and Password. Below the fields are checkboxes for 'I would like to stay anonymous' and 'I agree with the Terms and Conditions'. A 'SIGN UP' button and a 'CANCEL' link are at the bottom. The right screenshot shows a confirmation message: 'You have successfully signed up. Please check your inbox and click on the verify email address link'. Below this is an email verification page with the heading 'DRYVER' and the text 'Hello! Please click the button below to verify your email address.' A 'Verify Email Address' button is centered. Below the button, it says 'If you did not create an account, no further action is required.' and 'Regards, DRYVER'. At the bottom, it provides instructions for users having trouble clicking the button: 'If you're having trouble clicking the "Verify Email Address" button, copy and paste the URL below into your web browser:'. A copyright notice '© 2021 DRYVER. All rights reserved.' is at the very bottom.

If you forgot your password, you could click on the **Forgot Password** button on the Login page. After that, you must give your email address, then you will be able to reset your password via the received email.

The image shows two screenshots related to the login and password reset process. The left screenshot displays the 'Login' form with fields for 'Username or E-mail address' and 'Password'. A 'LOGIN' button and a 'FORGOT PASSWORD' link are at the bottom. The right screenshot shows an email verification page for password reset with the heading 'DRYVER' and the text 'Hello! You are receiving this email because we received a password reset request for your account.' A 'Reset Password' button is centered. Below the button, it says 'This password reset link will expire in 60 minutes.' and 'If you did not request a password reset, no further action is required.' and 'Regards, DRYVER'. At the bottom, it provides instructions for users having trouble clicking the button: 'If you're having trouble clicking the "Reset Password" button, copy and paste the URL below into your web browser:'. A copyright notice '© 2021 DRYVER. All rights reserved.' is at the very bottom.

You can always log out by clicking the **Logout** button in the top right corner.

Navigating on the map and viewing existing spots or records

Without registration, the two options available for everyone is to find and view existing spots and records on the map.

Navigation on the map

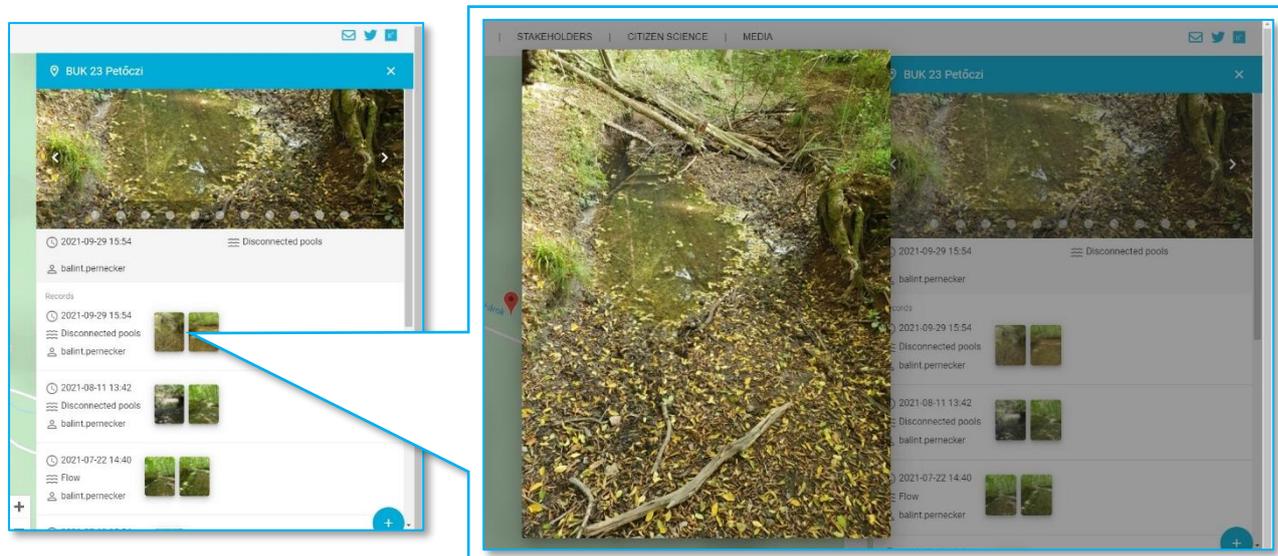
Navigating on the DRYRivers map is done with the generic tools: moving the map is done by dragging with the mouse cursor, zooming can be done either with scrolling or by using the “+” and “-” buttons in the bottom right corner.

The **D markers** are showing the existing spots on the map. The **markers with the numbers** are referring to the number of closely located spots. Clicking on these numbers will result in zooming in to these spots.



Viewing existing spots or records

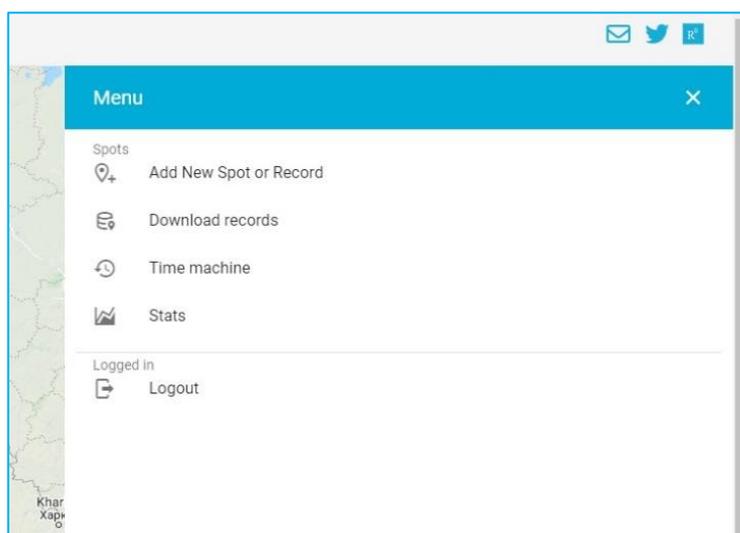
By clicking on an existing spot, it is possible to view all existing records' information, i.e., date and time, hydrological conditions, and the user who uploaded the data. It is possible to **scroll through all the photos** either by clicking on the thumbnails next to the records, or by clicking on the left (<) and right (>) arrows, or the dots on the preview picture. Clicking on the preview will result in showing the whole photo.



Menu items

After registration, the user can access all features on the web app. In the main menu, there are **five options**. The user can:

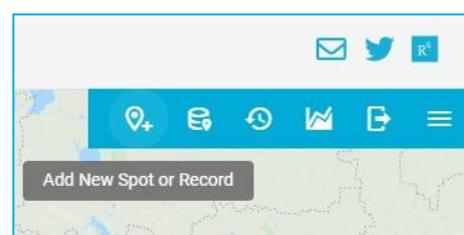
- add new spots or records
- download records
- filter for spots and records by using the time machine
- view statistics
- log out



Adding and editing spots or records

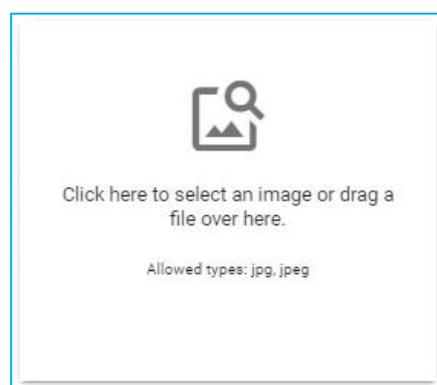
Adding new spot

Adding a new spot is done by clicking on the **Add new spot or Record icon** in the top right corner. After that, **the cursor will change to a cross**. You will be able now to select the desired location on the map. By clicking on an empty space on the map the **Location field will show you the GPS coordinates** of the spot you selected. If the new spot's location is fine, then you can fill the remaining fields (Spot Name, Description, Date, Hydrological conditions). **Date and Hydro conditions are the mandatory fields**.



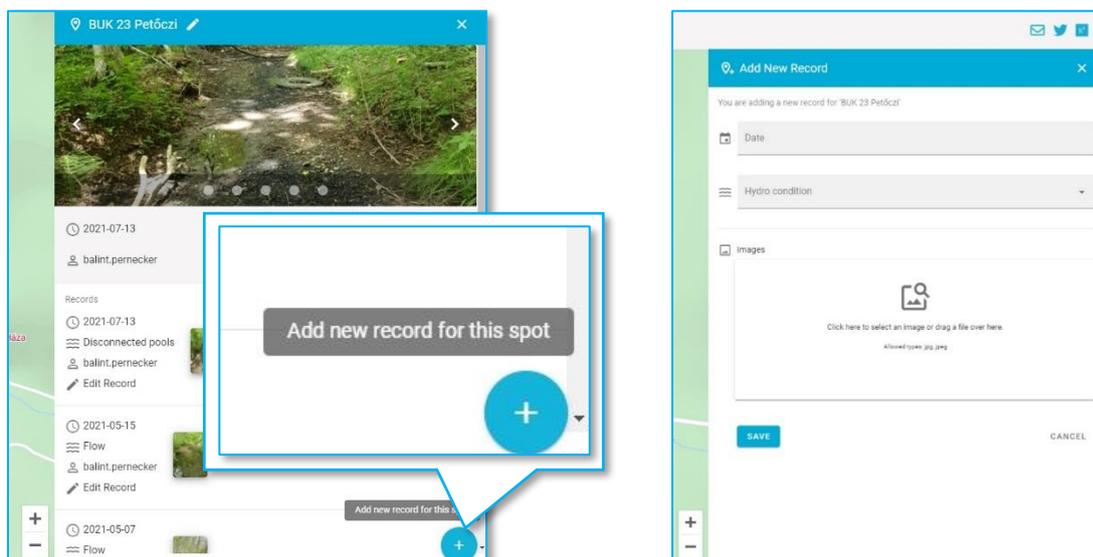
By clicking the **Next button**, you create the new spot, and then you can **add images** of that record either by selecting it from your device, or by dragging and dropping a file to the image field.

Both entering the spot name and adding an image are optional, however highly recommended steps.



Adding new records to existing spots

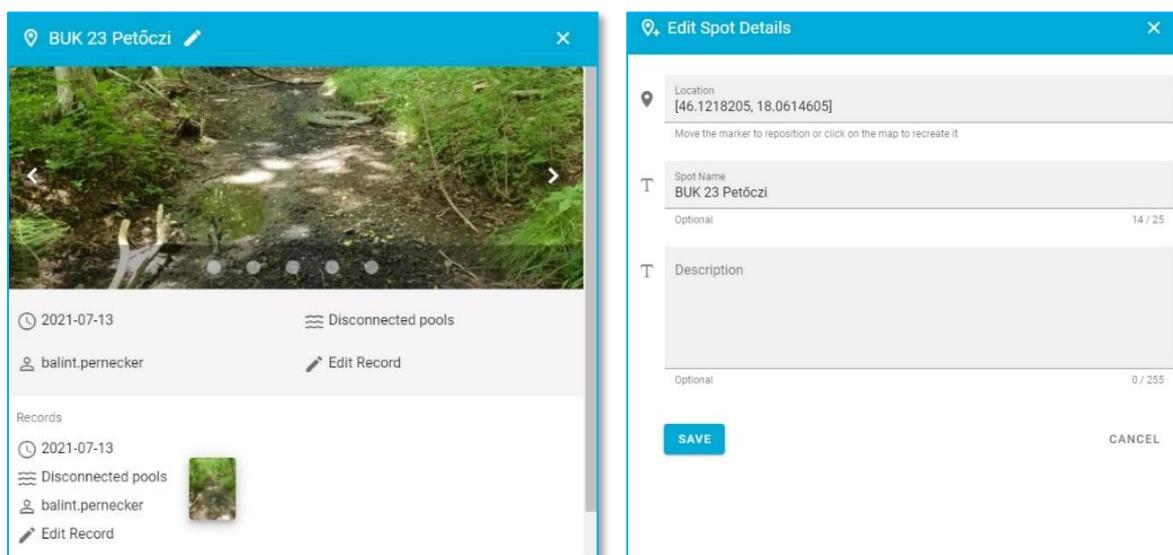
It is also possible to add new records to existing spots. You can do that by selecting an existing spot (the D marker will turn red) on the map and then clicking the **Add new record for this spot (+) button** in the bottom right corner. After that, you must add the **Date** and **Hydro conditions** of the new record, and you can **add images** of that record either by selecting it from your device, or by dragging and dropping a file to the image field. Adding an image is optional, however highly recommended. When you provided all necessary information, click the **Save button** to save the new record to the spot.



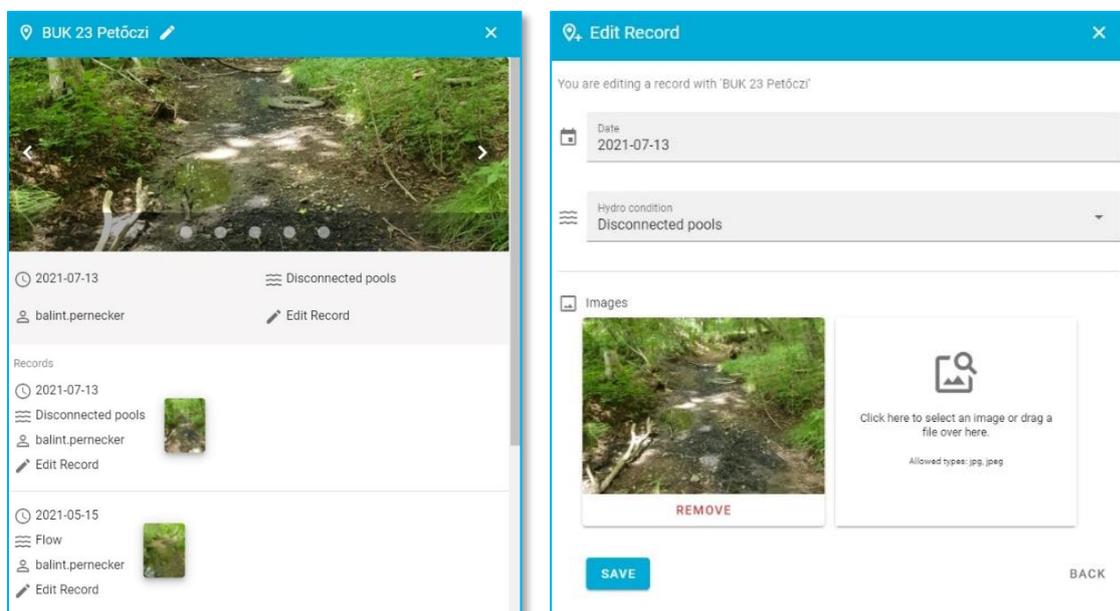
Editing existing spot or record

In the DRYRivERS web app it is also possible to edit existing spots and records. **You can edit only those spots and records that you have created.** Editing a spot or a record is done by clicking on an existing spot (D marker).

After that you can **edit the spot's details** by clicking on the **Pencil icon next to the spot's name**. You can **move the location** of the spot by dragging the spot's marker on the map. You can also **rename the spot** and **edit the spot's description**. It is not possible to delete existing spots.

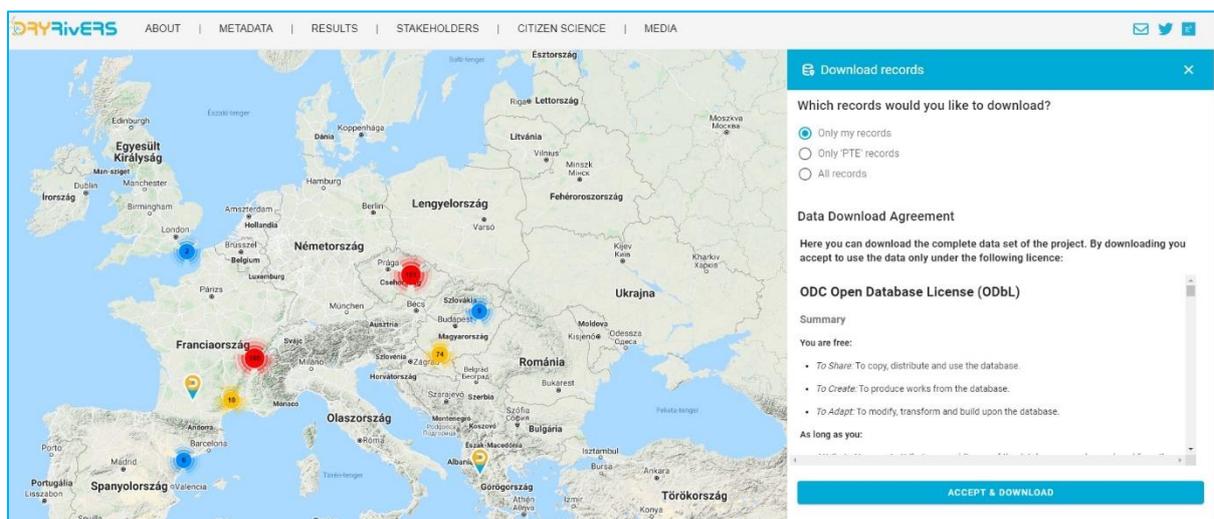
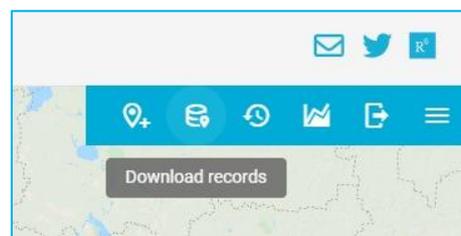


To **edit a specific record** of a spot first you must select an existing spot, and then you must choose the record by either scrolling through the records or by selecting the desired image with the **< and > signs** on the pictures. After you found the record you wish to edit click on the **Edit Record (pencil) button at the chosen record**. You can edit the record's **Date** and **Hydro conditions**, and you can **remove or upload images**.



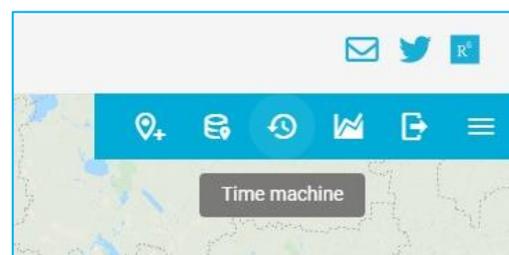
Downloading records

At the Download records menu, you can choose to download **only the records you have uploaded**, or you can download **all records**. In case you are a member of an institutional account, you can download the data uploaded by the institution too. To download data from the DRyRivERs database, you must **accept the Data Download Agreement**.



Using the Time machine

It is possible to filter the displayed spots/records on the map by **setting a timeframe** (From – To) in the Time machine. After that, only the spots/record that were created in that timeframe are visible on the map. The statistics are also shown for the set period. You can now select and view the filtered spots and records. After closing the spot's window with the X in the top right corner, you get back to the filtered timeframe, map, and statistics. If you close the Time machine with the X icon, the filter is deleted, and you get back to the default view of the map.



A screenshot of the application interface showing a map of Europe. A sidebar titled 'Time machine' is open on the right. It contains a date range selector with 'From 2021-08-01' and 'To 2021-08-31', a 'SUBMIT' button, and a 'CANCEL' button. Below the selector, it displays 'Stats for the selected period' with the following data: 8 users, 35 spots, 198 records, and 247 images. It also lists 'Most active users' by spots (Scutigera with 9 spots) and by records (CelluleAlerteSR3A with 58 records). A donut chart shows 'Hydro conditions' with 69.2% Flow (blue), 26.2% Disconnected (red), and 4.6% Dry (orange).

Statistics

A screenshot of the application interface showing a 'Stats' sidebar. It displays overall statistics: 187 users, 466 spots, 920 records, and 1084 images. It lists 'Most active users' by spots (WB.SR3A with 127 spots) and by records (ballint.pernecker with 136 records). A donut chart shows 'Hydro conditions' with 71.4% Flow (blue), 22% Disconnected (red), and 6.6% Dry (orange).

In the Statistics menu, you can view the current number of registered users, the number of uploaded spots, records, and images, the all-time most active users, and the proportion of recorded hydrological condition types.