# ASTRID project survey for stakeholders

**What is this about?**

The [ASTRID project](https://www.ceh.ac.uk/our-science/projects/assessing-statistical-models-temporary-river-intermittence-decision-makers) set out to improve understanding and spatial representation of intermittent and ephemeral (i.e temporary/non-perennial) rivers in Great Britain, which are ecologically important and subject to the same pressures as perennial rivers, but not widely monitored or consistently managed. The scarcity of observational data along intermittent reaches makes modelling necessary but also challenging, and during the course of the project we have been building and assessing statistical models driven by climate, catchment and hydrometric data. The statistical approach taken means we can make use of observations where they do exist and simulate intermittence where they don’t, without needing to detail all of the various processes driving its occurrence in different catchments.

We are pleased to have been successful in building national models of the location of hydrological intermittence along the river network for the first time. By providing a national overview we hope to raise awareness of these rivers, and highlight the need for more data. However, at a regional scale, gauging station data and observations where they exist show that the models tend to overestimate intermittence and are more accurate in some areas than in others. The purpose of this survey is to help us understand where and why these differences occur, and collate views on next steps, to further the understanding and management of intermittent and ephemeral rivers in Great Britain.

**Who should complete the survey?**

Anyone with an interest in the location, hydrology or management of intermittent and ephemeral rivers (or more generally, temporary/non-perennial hydrology) in Great Britain.

*Your personal data will be held in accordance with our* [*privacy policy*](http://www.ceh.ac.uk/privacy-policy) *and UK Data Protection Regulations and used for the ASTRID project only, unless you would like us to stay in touch (see questions 8 and 9). Other answers will be summarised anonymously, published on the ASTRID website, and used to inform future research.*

**If you have any questions**, please contact a member of the project team at the UK Centre for Ecology & Hydrology:Catherine Sefton catsef@ceh.ac.uk, Michael Eastman miceas@ceh.ac.uk, Simon Parry spar@ceh.ac.uk or Cecilia Svensson csve@ceh.ac.uk.

## Respondent

Name:

Role:

Organisation:

## Your interest

1. What is your interest in intermittent and ephemeral rivers?

e.g. regulation, water supply, local community, research, other (please state)

1. Please describe your interest, involvement or responsibilities:
2. Is there a geographical area where intermittent and ephemeral rivers are of particular interest to you, and if yes, where? e.g. England, Wales, Scotland, GB, region/area (please list as many as apply, and state which regions/areas)

## Model results

1. The maps available on the [ASTRID consultation website](https://www.ceh.ac.uk/astrid-project-stakeholder-consultation) show simulations of the occurrence of intermittence during the summer months (May-Oct) of 2012-2019. Locations with perennial flows are shown blue, and those with non-perennial flows orange. Please annotate the maps (e.g. by importing into Word), or comment on **where and how** you think the model is right/wrong (either generally or in your area of interest).

4b. How might your answer be different if this was a long-term, year-round simulation of intermittence?

4c. On what evidence have you been able to make this assessment e.g. seeing the rivers first hand, information from others, flow data, other observations, estimation based on knowledge of similar rivers?

1. What factors do you think might be affecting these results, answering first for your area of interest (identified in question 3):

and, if you would like, more generally:

1. How might you make use of the final ASTRID map (to be released after the end of the project), or underlying perennial/non-perennial dataset for the 1km resolution river network?

## Looking ahead

1. What questions would you like to see answered on intermittent and ephemeral rivers?
2. Do you consent to be contacted by us for the purposes of future collaboration and research into intermittent and ephemeral rivers?

Yes/No

1. Would you be interested in joining a forum for those with an interest in intermittent and ephemeral river hydrology or management? If there is sufficient interest, we will look into establishing a forum.

Yes/No

If yes, what format for the forum do you think would be appropriate (e.g. meetings online/in-person, frequency, online group)?