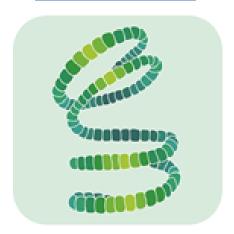
## Collecting & Consuming Freshwater Data

Phil Taylor



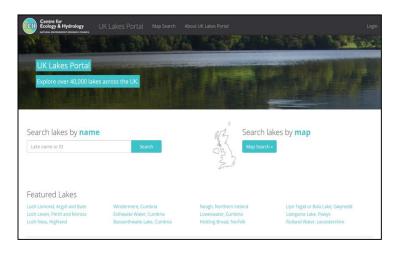


#### Collecting data



Bloomin' Algae App

### Connecting data



**UK Lakes Portal** 



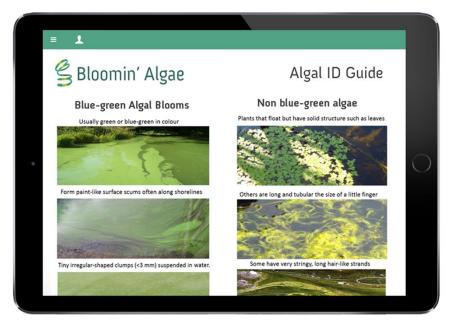
Combining data



Blue-green algal blooms can be **toxic** and damaging to the environment, yet we know little about **when** and **where** they occur.

The new **Bloomin' Algae app** lets people report a potential bloom by sending a location, bloom details, activity data and photos.

The app features a **photo guide** to help make a correct identification.





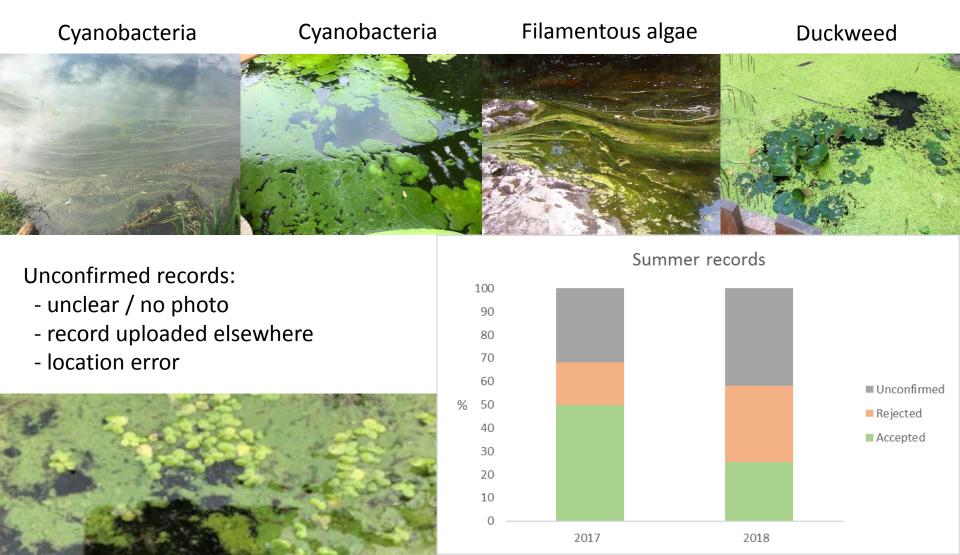


Data is stored and verified using the Biological Records Centre's **iRecord** system.



GPS location, date, size, picture, information of recreational activities.

Further information can be left as comments (e.g. warning signs)





"Win Win"















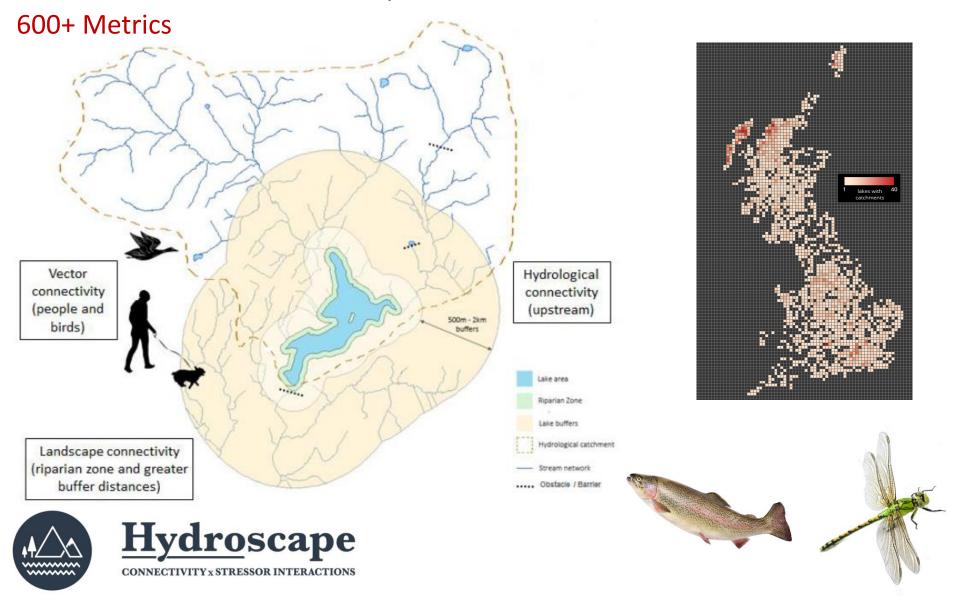


HARMFUL ALGAE MAY BE PRESENT IN THIS WATER USE OR CONTACT MAY CAUSE SERIOUS HARM TO HUMANS AND ANIMALS

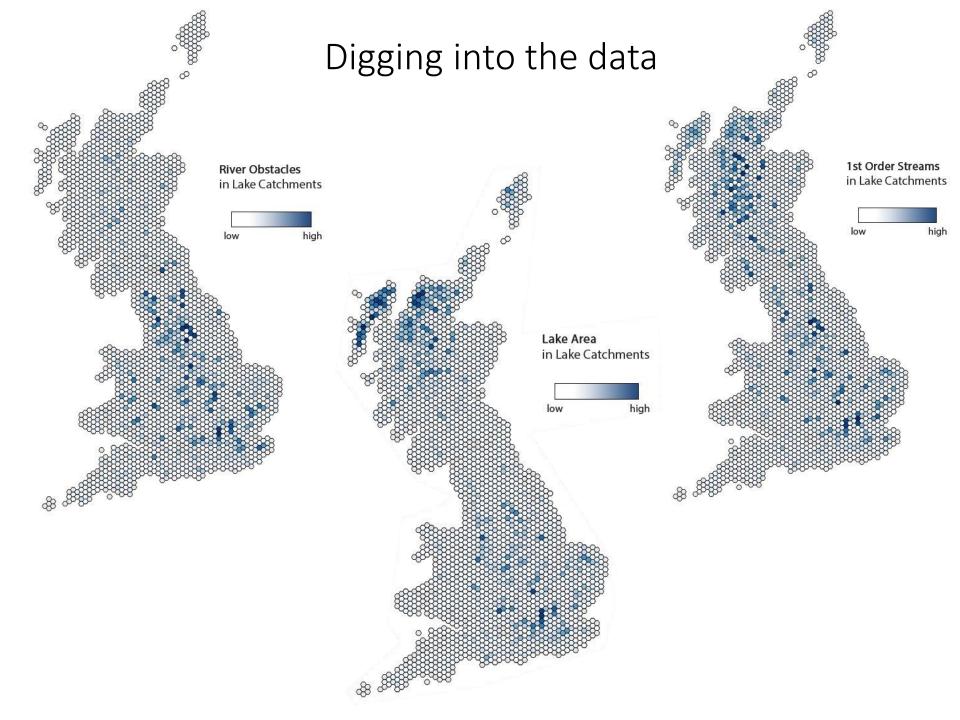
FOR FURTHER INFORMATION CONTACT: THE ALGAL HOTLINE



# How does hydro / landscape connectivity affect species abundance?



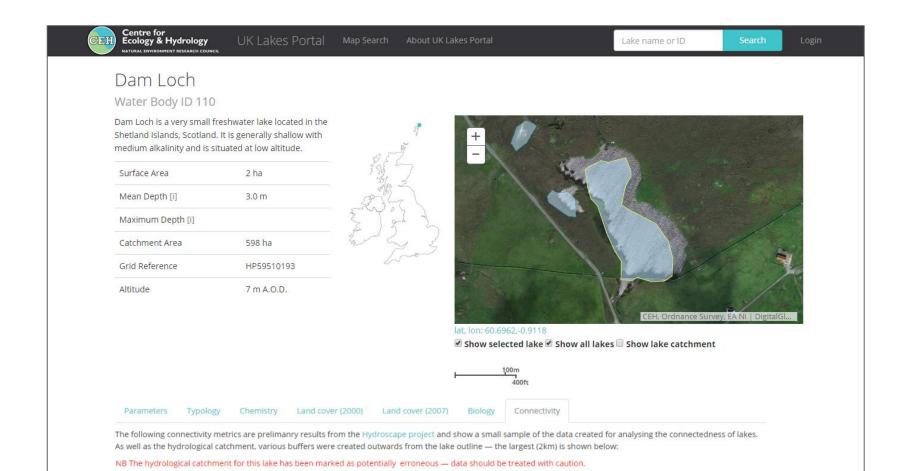




### **UK Lakes Portal**

https://eip.ceh.ac.uk/apps/lakes/

- How can we integrate BRC data with the portal?
- How can we improve recording of freshwater species?
- How can we link up future research outputs?



Gunn, I.D.M. et al.

**Ecology & Hydrology** 

NATURAL ENVIRONMENT RESEARCH COUNCIL

Centre for

### UK Checklist of freshwater species

https://doi.org/10.5285/57653719-434b-4b11-9f0d-3bd76054d8bd

Cite this dataset

The UK Checklist of Freshwater Species is a collation of all the species (apart from algae) known to be found in association with fresh waters in the United Kingdom. The checklist was compiled to allow querying of freshwater species data in the Biological Records Centre (BRC) but to also to query freshwater species data from the BRC via the UK Lakes Portal (https://eip.ceh.ac.uk/apps/lakes/), as well as to update the freshwater species list supplied to the UK Species Inventory (UKSI) partners, such as Recorder 6, National Biodiversity Network (NBN) Atlas and iRecord.

The following eight major groups were identified as being associated with fresh waters in the UK: algae, amphibians, birds, fish, invertebrates, macrophytes, mammals and reptiles. Algae (except stoneworts) were not included in the UK Checklist of Freshwater Species as they are currently undergoing a major revision. Other microorganisms (bacteria, fungi and viruses) are also not included in this species list.

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