

Bloomin' Algae!

- citizen science innovation to a key freshwater issue
- helping to report cyanobacterial blooms
- helping to deliver surveillance and rapid action
- helping SEPA

Laurence Carvalho (now NIVA), Anne Dobel, Gemma Nash, Phil Taylor, Eleanor Mackay, Linda May (UKCEH)

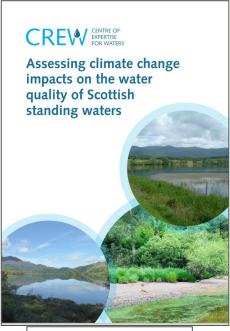
Jan Krokowski, Kate Arnold, Elisabeth Mullen, Seren Craig (SEPA)

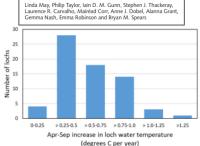
Sigrid Haande (NIVA), Camilla H.C. Hagman (NIVA), Bryan Kennedy (Irish EPA), Miquel Lurling (Wageningen University), Jeroen Van Wichelen (INBO)

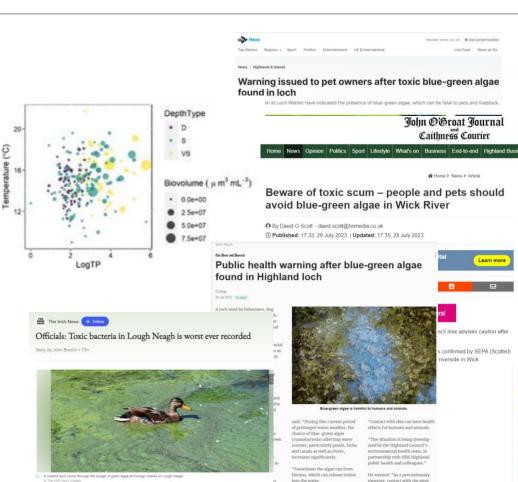


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Dog owner's plea after pet dies





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Scottish New

WATER WARNING Vet warning after dog dies and other poisoned by blue-green algae in Scots water

Published: 11:52, 21 Jul 2021 | Updated: 11:54, 21 Jul 2021

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A VET has issued an urgent warning to Scottish pet owners after a dog was exposed to a deadly toxin in a loch and passed away.



Development of citizen science app

Report presence of potential harmful algal blooms – Cyanobacteria

Rapid verification – speed up health warnings

Rapid notification to agencies – speed up risk management

Record of bloom - photo, location and date Additional information – swimming, dog walking, fishing etc.

Data available to everyone in app – zoom in to sites Photo of bloom

Data available via website https://bloominalgae.ceh.ac.uk More comprehensive data on coverage and frequency

Verified records:



Hillend Loch, 18 July



Loch Leven, 7 April

Rejected records:



Harperrig Reservoir, 20 July



Plausible records:



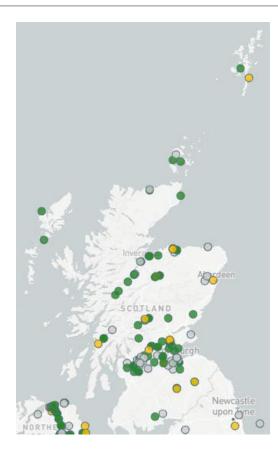
North Third Reservoir, 14 April



Cooper's Park pond, 11 July OFFICIAL



Loch Awe, 24 June



https://bloominalgae.ceh.ac.uk

Rapid notification to agencies

- SEPA
- Local Authorities, Environmental Health
- Scottish Water

- Citizen science approach to identify and manage key freshwater issue
- Reduce public and animal health risks
- Provide information and awareness
- Motivation to tackle water quality
- Reassurance if cyanobacteria, or not
- Increase scientific collaboration

Scottish Cyanobacteria Guidance

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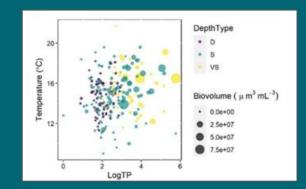
Thank you

Contact details

Dr Jan Krokowski Senior Specialist Ecologist Email: jan.krokowski@sepa.org.uk

sepa.org.uk





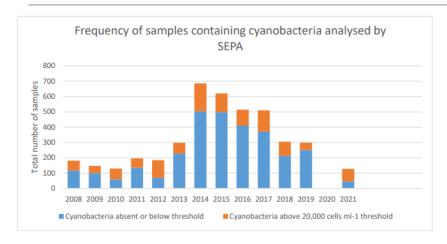


Strathclyde Loch, September 2021.

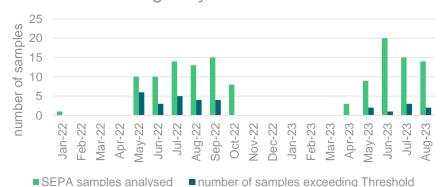


Loch Lomond, December 2022.

SEPA ECOLOGY ASSESSMENT UNIT ACTION



SEPA lab analysis adhoc algae/cyanobacteria



Bloomin Algae, 2021- 25 Sept 2023

