

Algal Blooms Sweden - 2021

SND-ID: 2022-197-1.

Citation

Ana Tronholm, Magnus Lindeberg, & Jurie Germishuys. (2022). Algal Blooms Sweden - 2021 [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.7234133>

Creator/Principal investigator(s)

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Research principal

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Principal's reference number

Formas 2020-00714

Description

Dataset containing images of algal blooms in the Baltic Sea. The data is provided with a metadata description containing time spotted, comments, municipality, county and coordinates of each image. The images and metadata file are archived in a zip package. Images show various summer surface accumulations of so-called harmful algal blooms (HABs) or nuisance blooms. Typically, these blooms consists of species of cyanobacteria of the order of Nostocales, including toxic *Nodularia* and *Aphanizomenon*. These blooms were verified by Informationscentralen (Länsstyrelsen Stockholm and Länsstyrelsen Västerbotten). However, the blooms seen in the images have not been taxonomically annotated by microscopy nor genetic analysis.

The following data fields are contained in the metadata files (provided in both json and csv format):

report_id: unique identifier for reporting record, type: string
time_spotted: date that bloom was spotted, type: datetime
algae_overview_photo: url to overview photo submitted, type: string
algae_detail_photo: url to detailed photo submitted, type: string
comments: Any additional information relating to the bloom, type: string
lat: Latitude of position where bloom was seen, type: float
long: Longitude of position where bloom was seen, type: float
place: County where bloom was spotted, type: string
kommun: Municipality where bloom was spotted, type: string

Total observations: 251

Notes: Not every observation has an accompanying image and others were verified using other information provided.

One of the submitted photographs for 2021 contained unintentionally collected personal data. It has been excluded from this dataset to make open data publishing possible.

Data contains personal data

No

Language

[English](#)

[Swedish](#)

Time period(s) investigated

2021-06-19 – 2021-10-09

Variables

251

Data format / data structure

[Numeric](#)

[Text](#)

[Still image](#)

[Geospatial](#)

Species and taxons

[Nostocales](#)

Data collection 1

- Mode of collection: Compilation/Synthesis
- Description of the mode of collection: Compilation of digital photographs submitted by participants of a citizen science project, along with metadata.
- Time period(s) for data collection: 2021-06-19 – 2021-10-09
- Instrument: Digital camera (Technical instrument(s))

Geographic spread

Geographic description: Swedish Baltic Sea coast

Responsible department/unit

Biological and Environmental Sciences

Funding

- Funding agency: Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS)
- Funding agency's reference number: 2020-00714
- Project name on the application: Åtgärder mot farliga algbloomningar: Utveckling av en innovativ och integrerande metod för att förutsäga giftiga cyanobakterier i en föränderlig miljö
- Funding information: Tackling Harmful Algal Blooms: Development of an innovative and integrative method for forecasting toxic cyanobacteria in a changing environment

Research area

[Ecology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Biota](#) (INSPIRE topic categories)

[Oceans](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Harmful algal bloom](#), [Algal bloom](#), [Citizen science](#), [Prokaryote](#), [Cyanobacteria](#), [Species distribution](#), [Baltic sea](#)

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Accessibility level

Access to data through an external actor
Data are freely accessible

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Homepage

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Is part of [Ocean Data Factory Sweden](#)

Related research data in SND's catalogue

[Algal Blooms Sweden - 2022](#)

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[DDI 3.3](#)

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