



Metadata

B-BLOOMS2

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General information

name of the dataset:

full name of the dataset: *B-BLOOMS2*

dataset short name: *B-BLOOMS2*

type of dataset ([more information](#)): *species (taxonomic group) per site database including environmental information*

data type: *point data/observation data*

short description of the dataset/summary:

The B-BLOOMS2 dataset resulted from the monitoring of 4 Belgian reference lakes during the bloom seasons in 2007 and 2008. It is composed of 278 sample events for which 17 environmental parameters are available, as well as HPLC based pigment analysis, zooplankton counting, proportion of cyanobacterial populations (from genus to species), and MC-LR concentrations determined by ELISA. Molecular data acquired during this project are also available (<http://hdl.handle.net/2268/213145>).

These data were acquired with the financial support of BELSPO in the frame of the Science for a Sustainable Development programme funding the project B-BLOOMS2 (SD/TE/01).

The final report is available at:

http://www.bblooms.be/BBLOOMS2_FinalReport.pdf

keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

ISO topic category according to [ISO 19115](#):

Biota, Environment, Inland Waters

INSPIRE keywords according to [GEMET](#):

own science keywords: *cyanobacteria, blooms, eutrophic lakes, genetic diversity, monitoring, cyanotoxins, modelling*

Technical and administrative specifications

data format: *MySQL*
operating system: *all operating systems*
data language: *English*
current access level: *web (public)*
web address: *http://www.bblooms.be/protected/data.htm*
currently available through [GBIF](#): *no*
exchange planned: *yes*
data in data repository: *no*

Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

already published through the Freshwater Biodiversity Data Portal

update level: *update planned*

documentation:

type: *scientific paper*
language: *English*

contact details:

metadata contact person:

first, last name: *Yannick Lara*
phone: *003243665260*
email: *ylara@uliege.be*
institution: *University of Liège*
address: *Bât. B18 Quartier Agora, Allée du six aout 14*
postal code, city: *4000 Liège*
country: *Belgium*

technical contact person:

first, last name: *Yannick Lara*
phone: *003243665260*
email: *ylara@uliege.be*

scientific contact person:

first, last name: *Annick Wilmotte*
phone: *003243663387*
email: *awilmotte@uliege.be*

Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):

contact name: *Jean Pierre Descy*
contact email: *jpdescy@gmail.com*

data contributors to/owners of this dataset:

multiple
number: *4*

provider 1:

provider institute: *University of Liège*
contact name: *Annick Wilmotte*
contact email: *awilmotte@uliege.be*
criteria for using the data in a publication/scientific analysis:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

provider 2:

provider institute: *--*
contact name: *Jean Pierre Descy*
contact email: *jpdescy@gmail.com*
criteria for using the data in a publication/scientific analysis:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

provider 3:

provider institute: *VUB*
contact name: *Ludwig Triest*
contact email: *ltriest@vub.ac.be*
criteria for using the data in a publication/scientific analysis:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

provider 4:

provider institute: *University of Gent*
contact name: *Wim Vyverman*
contact email: *Wim.Vyverman@UGent.be*
criteria for using the data in a publication/scientific analysis:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

citation of this dataset:

author(s): *Verniers, G., Pirlot, S., Viroux, L., Leporcq, B., Vanormelingen, P., Van Wichelen, J., Van der Gucht, K., Peretyatko, A., Teissier, S., Lara, Y., Lambion, A., Reilly, M., Menzel, D., Wojnicz, A., Everbecq, E., Codd, G.A., Triest, L., Vyverman, W., Wilmotte, A. & Descy, J.P.*

title and journal (name, number, pages):

*Cyanobacterial blooms: toxicity, diversity, modelling and management
"B-BLOOMS2"*

year: 2017

doi (if applicable): <https://doi.org/10.15468/e3zw1e>

citation of the metadata:

author(s): *Lara Y., De Wever A., Verniers G., Pirlot S., Viroux L., Leporcq B.,
Vanormelingen P., Van Wichelen J., Van der Gucht K., Peretyatko A.,
Tessier S., Lambion A., Reilly M., Menzel D., Wojnicz A., Codd G.A., Triest
L., Vyverman W., Descy J.-P. & Wilmotte A.*

title and journal (name, number, pages):

*Metadata compilation for the B-BLOOMS2 dataset: Cyanobacterial bloom
monitoring. Freshwater Metadata Journal 28: 1-8*

year: 2017

doi (if applicable): <https://doi.org/10.15504/fmj.2017.28>

General data specifications

regional coverage of the dataset:

spatial extent of the dataset: *national*
continents: *Europe*

spatial extent (bounding coordinates):

southernmost latitude [°]: *51.42*
northernmost latitude [°]: *49.68*
westernmost longitude [°]: *2.84*
easternmost longitude [°]: *5.95*
countries: *Europe: Belgium*

Site specifications

coordinate system/grid data:	<i>latitude/longitude projected</i>
datum (e.g. WGS84):	<i>WGS84</i>
grid data available:	<i>no</i>
site coding:	
site coding available:	<i>yes</i>
	<i>alphanumerical</i>
number of digits:	<i>8</i>
example:	<i>IXP1; FAL; Donkmeer</i>
number of sites:	<i><100</i>
exact number of sites:	<i>5</i>

Climate and environmental data

climate related data: *no climate data available*

environmental data: *no environmental data per catchment available*

available parameters per site: *wind speed*

physico-chemical data: *Array, Array, Array, Array, Array, Array, Array, Array, Array, Array, Array, Array, Array*

stressors influencing the sites: *no stressor data available*

reference sites available: *no*

Biological data

biological data origin:

specify project:

specify method:

organism group addressed: *zooplankton, phytoplankton, other group(s): Cyanobacteria*

Sample specifications/sample resolution

zooplankton:

sample information:

covered timeframe:
 year from - to: 2007 - 2008
 historical data: no
 palaeo data: no
 season: spring
 temporal resolution/frequency of sampling:
 per week
 time series data: yes

taxonomic resolution:

other taxonomic levels: suborder
 comments: calanoids, cyclopoids, nauplii, cladocerans (large and small), rotifers

taxonomic coding:

coding system: no coding available

sample specifications:

replicate samples: no
 number of samples: 278
 specification of method(s) used for sampling and sorting:
 Zooplankton was collected from each lake, using buckets or a Schindler-Patalas plankton trap. Enumeration was performed using a dissecting microscope for larger taxa (cladocerans, copepodites and adult copepods) and using a microscope for small 'forms' (nauplii, rotifers).

Cladocerans were identified as large or small cladocerans, whereas copepods were identified as calanoids, cyclopoids, and nauplii.

phytoplankton:

sample information:

covered timeframe:
 year from - to: 2007 - 2008
 historical data: no
 season: spring
 temporal resolution/frequency of sampling:
 per week
 time series data: yes

taxonomic resolution:

other taxonomic levels: class, phylum
 comments: chlorophytes, chrysophytes, cryptophytes, cyanobacteria, diatoms, dinoflagellates, euglenophytes

taxonomic coding:

coding system: no coding available

sample specifications:

replicate samples: yes
 number of samples: 278
 specification of method(s) used for sampling and sorting:
 Phytoplankton abundance has been assessed by observation and HPLC using CHEMTAX as described by Descy et al. 2000.
 citation: Descy, J.-P., Higgins, K., Mackey, D.J., Hurley, J.P. & Frost, T.M. (2000).

other group(s):**sample information:**

covered timeframe:
year from - to: 2007 - 2008
historical data: no
season: spring
temporal resolution/frequency of sampling:
per week
time series data: yes
comments: cyanobacteria

taxonomic resolution:

percentage of species level data: 15
comments: taxalist:
Anabaena spp., *Anabaenopsis* spp., *Aphanocapsa* spp., *Aphanizomenon flos aquae*, *Aphanizomenon issathschenkoi*, *Aphanothece* spp., *Chroococcus* spp., *Coelosphaerium* spp., *Cyanogranis liberia*, *Gomphosphaeria* spp., *Limnothrix* spp., *Merismopedia* spp., *Microcystis* spp., *Woronichinia* spp., *Oscillatoria* spp., *Pseudanabaena* spp., *Planktothrix* spp., *Pannus* spp., *Snowella* spp.

taxonomic coding:

taxalist according to: Komárek & Anagnostidis (1998), Komárek & Anagnostidis (2005)
citation: Komárek, J. & Anagnostidis, K. (1998): *Cyanoprokaryota 1. Teil: Chroococcales*. - In: Ettl, H., Gärtner, G., Heynig, H. & Mollenhauer, D. (eds): *Süßwasserflora von Mitteleuropa 19/1*, Gustav Fischer, Jena-Stuttgart-Lübeck-Ulm, 548 pp.

Komárek, J. & Anagnostidis, K. (2005): *Cyanoprokaryota 2. Teil/ 2nd Part: Oscillatoriales*. - In: Büdel, B., Krienitz, L., Gärtner, G. & Schagerl, M. (eds): *Süßwasserflora von Mitteleuropa 19/2*, Elsevier/Spektrum, Heidelberg, 759 pp.

sample specifications:

replicate samples: no
number of samples: 278
specification of method(s) used for sampling and sorting:
For microscopy counting, 250 mL of sample were immediately fixed with lug and concentrated by settling for 24h. Then concentrate samples were preserved by addition of neutral formaldehyde (2-4% final concentration).

Other specifications

GIS layers, shape files related to the dataset:

no data available

availability of photos:

no

availability of maps:

no

quality control procedures:

Were any quality control procedures applied to your dataset?

no

related information:

Molecular dataset available at: <http://hdl.handle.net/2268/213145>