

Effects on the food-web structure and bioaccumulation patterns of organic contaminants in a climate-altered Bothnian Sea mesocosms

SND-ID: 2023-193. **Version:** 1. **DOI:** <https://doi.org/10.5878/p8sx-n445>

Download data

Biological data.txt (29.54 KB)

Fish.txt (851 bytes)

PAR.txt (2.52 KB)

POP_fish.txt (3.99 KB)

POP_water.txt (3.85 KB)

Associated documentation

readme-file.txt (32.74 KB)

Download all files

2023-193-1.zip (~73.48 KB)

Citation

Berglund, Åsa, Gallampois, C., Ripszam, M., Larsson, H., Figueroa, D., Grinienė, E., Byström, P., et al. (2024) Effects on the food-web structure and bioaccumulation patterns of organic contaminants in a climate-altered Bothnian Sea mesocosms (Version 1) [Data set]. Umeå University. Available at: <https://doi.org/10.5878/p8sx-n445>

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Research principal

[Umeå University](#) - Department of Chemistry

Description

The data originates from a mesocosm-experiment on the food web from the Baltic sea (from plankton to fish). The food web was exposed for organic contaminants and treated with different scenarios

mimicing future climate changes (temperature- and dissolved organic carbon-treatments). The data files contains information on water chemistry and biological responses over time, as well as data specifically on fish survival and organic contaminant concentrations in fish and water.

Data contains personal data

No

Language

[English](#)

Time period(s) investigated

2013-05 - 2013-07

Data format / data structure

[Numeric](#)

[Text](#)

Species and taxons

[Bacteria](#)

[Cladocera](#)

[Copepoda](#)

[Bosmina coregoni](#)

[Ciliophora](#)

[Rotifera](#)

[Perca fluviatilis](#)

Data collection 1

- Mode of collection: Laboratory experiment
- Description of the mode of collection: Mesocosm experiment
- Time period(s) for data collection: 2013-05 - 2013-07
- Data collector: Umeå University

Geographic spread

Geographic location: [Västerbotten Province](#), [Baltic Sea](#)

Geographic description: The mesocosm experiment was conducted at the Umeå Marine Science Centre (UMF), Sweden (63° 33'N, 19° 49'E).

Responsible department/unit

Department of Chemistry

Funding 1

- Funding agency: Government of Sweden
- Funding agency's reference number: 2009-149
- Project name on the application: EcoChange
- Funding information: The strategic research programme EcoChange

Funding 2

- Funding agency: Kempe Foundation

Ethics Review

Umeå - Ref. A28-13

Research area

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

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

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

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

[Biota](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Aquatic ecosystem](#), [Environmental monitoring facilities](#), [Organic compounds](#), [Food webs](#), [Climatic effects](#), [Bottnian sea](#)

Publications

Åsa M.M. Berglund, Christine Gallampoï, Matyas Ripszam, Henrik Larsson, Daniela A. Figueroa, Evelina Grinienė, Pär Byström, Elena Gorokhova, Peter Haglund, Agneta Andersson, Mats Tysklind. (2023). Effects on the food-web structure and bioaccumulation patterns of organic contaminants in a climate-altered Bothnian Sea mesocosms. Front. Mar. Sci. 10:1244434.

DOI: <https://doi.org/10.3389/fmars.2023.1244434>

Point (Lon/Lat)

19.831833, 63.565

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

License

[CC BY 4.0](#)

Versions

Version 1. 2024-02-28

Homepage

[The strategic research programme EcoChange](#)

Contact for questions about the data

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Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

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