Q&A session
Environmental and climate data
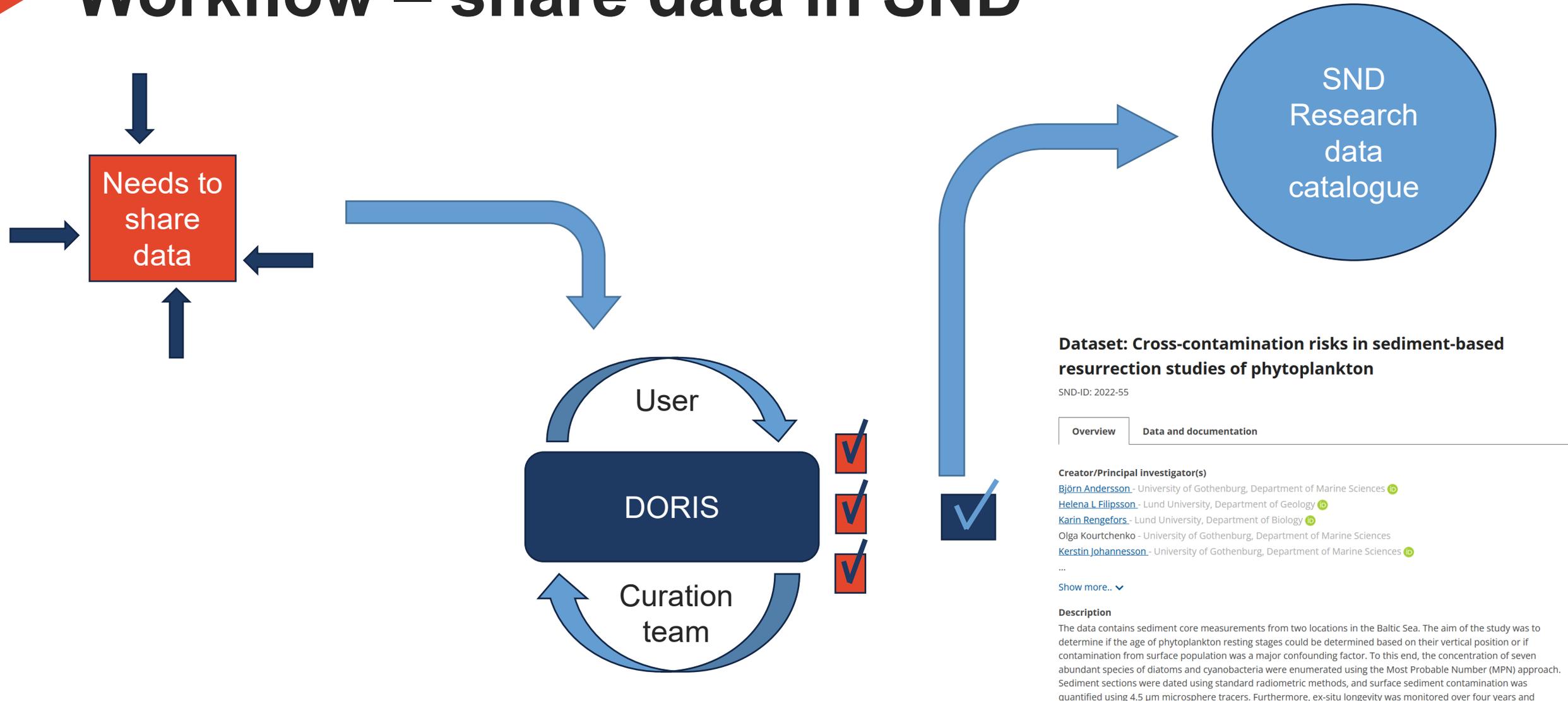
2022-11-16, zoom

Session start 13:03, please make sure to:

- Mute microphone
- Menti.com **3961 2823**
- Post questions in chat, if more questions than time, chat will be saved and questions answered later on.
- Slides will be available on the event page after the session

Menti - QR

Workflow – share data in SND

Swedish National Data Service

Collaboration between institutions and public research institutes in Sweden

SND - research data catalogue = SND

The curation teams

Workflow – Needs

Needs to share data

Log in with account

User

DORIS

Curation team

SND Research data catalogue

Dataset — contamination risks in sediment-based resurre— dies of phytoplankton

SND-ID: 2022

Overview — cumentation

Creator/Prin— (s)

Description

Workflow – Needs and *one* answer

Needs to share data

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DORIS

Curation team

SND Research data catalogue

Dataset: Cross-contamination risks in sediment-based resurrection studies of phytoplankton

SND-ID: 2022-55

| Overview | Data and documentation |

Creator/Principal investigator(s)

Björn Andersson - University of Gothenburg, Department of Marine Sciences

Helena L Filipsson - Lund University, Department of Geology

Karin Rengefors - Lund University, Department of Biology

Olga Kourtchenko - University of Gothenburg, Department of Marine Sciences

Kerstin Johannesson - University of Gothenburg, Department of Marine Sciences

...
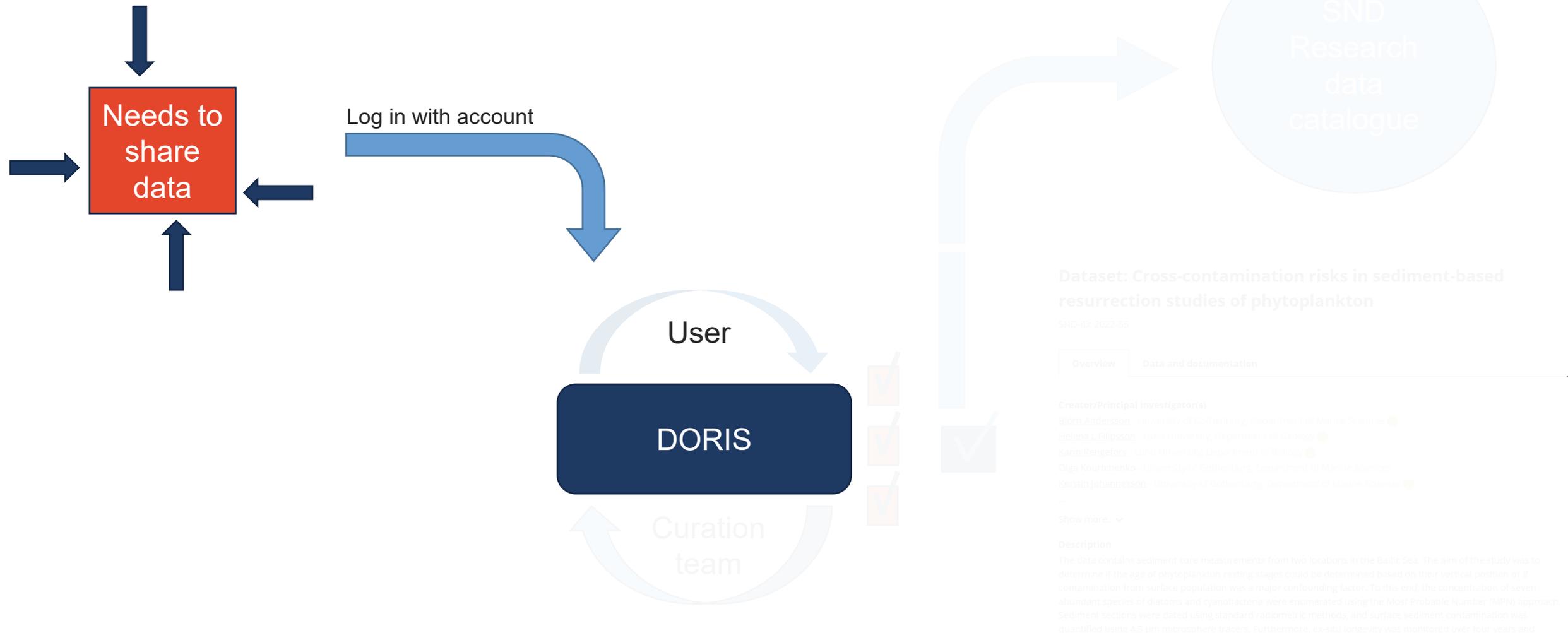
Show more.. ⌄

Description

The data contains sediment core measurements from two locations in the Baltic Sea. The aim of the study was to determine if the age of phytoplankton resting stages could be determined based on their vertical position or if contamination from surface population was a major confounding factor. To this end, the concentration of seven abundant species of diatoms and cyanobacteria were enumerated using the Most Probable Number (MPN) approach. Sediment sections were dated using standard radiometric methods, and surface sediment contamination was quantified using 4.5 μm microsphere tracers. Furthermore, ex-situ longevity was monitored over four years and

Workflow – DORIS-system

Needs to share data

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Curation team

Swedish National Data Service

Svenska | English

Logged in as: Ida Taberman

Data descriptions | Requested data | Administration | My pages | Log out

Researcher mode | Reviewer mode

Note: Research principal can not be changes after you have saved and commenced your data description.

Swedish University of Agricultural Sciences ✕ ▾

Research area profile

Select the research data profile that best suits the data you describe. The content of the form will change depending on your selected profile. Please let us know if you are unable to enter vital information in the available fields.

At present, there are several research area profiles specifically developed to suit a number of research areas. If your research area is not represented in the list, please select the general profile. All of the profiles are developed in compliance with the FAIR principles, ensuring that the data descriptions make the data easier to find, understand, and reuse.

- ● Earth and Related Environmental Sciences ❓
- ○ Engineering and Technology ❓
- ○ General ❓
- ○ History and Archaeology ❓
- ○ Language Resources ❓
- ○ Medical and Health Sciences ❓
- ○ Natural Sciences ❓
- ○ Social Sciences ❓

Workflow – share data in SND

Workflow – shared data in SND

Needs to share data

User

DORIS

Curation team

SND Research data catalogue

Dataset: Cross-contamination risks in sediment-based resurrection studies of phytoplankton

SND-ID: 2022-55

Overview | Data and documentation

Creator/Principal investigator(s)

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...

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Description

The data contains sediment core measurements from two locations in the Baltic Sea. The aim of the study was to determine if the age of phytoplankton resting stages could be determined based on their vertical position or if contamination from surface population was a major confounding factor. To this end, the concentration of seven abundant species of diatoms and cyanobacteria were enumerated using the Most Probable Number (MPN) approach. Sediment sections were dated using standard radiometric methods, and surface sediment contamination was quantified using 4.5 μm microsphere tracers. Furthermore, ex-situ longevity was monitored over four years and

SND
Swedish National Data Service

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Unravelling the Contribution of Turbulence and Bubbles to Air-Water Gas Exchange in Running Waters

SND-ID: 2021-307

Overview   Data and documentation

Alternative title
EXSONIC

Creator/Principal investigator(s)
Marcus Klaus - Swedish University of Agricultural Sciences, Department of Forest Ecology and Management
Thierry Labasque - University of Rennes 1, Géosciences Rennes
Gianluca Botter - University of Padova, Padova, Italy, Department of Civil Architectural and Environmental Engineering
Nicola Durighetto - University of Padova, Padova, Italy, Department of Civil Architectural and Environmental Engineering
Jakob Schelker - University of Vienna, Vienna, Austria, Department of Functional and Evolutionary Ecology

Description
Aquatic ecosystems exchange gases with the atmosphere and this exchange is critical for many ecosystem processes and the global greenhouse gas cycle. However, it is difficult to determine how fast gases exchange with the atmosphere, especially in running waters where bubbles can speed up the exchange of certain gases. Here, we provide a data set on air-water gas exchange velocities, collected during an outdoor flume experiment. We used experimental stream channels to create a wide range of flow conditions, and tested how these conditions effect the rate at which different gases in the water exchange with the atmosphere. Besides gas exchange velocities for direct air-

ⓘ Accessibility level
Access to data through SND
Data are freely accessible

Use of data
Things to consider when using data shared through SND

↗ Homepage
https://www.researchgate.net/project/ExSONIC-Experimental-evaluation-of-stream-atmosphere-gas-exchange-by-hydro-acoustics

✉ Contact for questions about the data
Marcus Klaus

Dataset

Unravelling the Contribution of Turbulence and Bubbles to Air-Water Gas Exchange in Running Waters

⬇ Download data
Contribution_of_turbulence_and_bubbles_to_air-water_gas_exchange_in_running_waters.tsv *(12.36 KB)*

📄 Associated documentation
Contribution_of_turbulence_and_bubbles_to_air-water_gas_exchange_in_running_waters_VariableDescription.pdf
Vingiani_2021_chamber_method.pdf
Klaus_2022_bubble_flume_k.pdf

Description
main data contributions:
(1) Gas exchange velocity estimates based on mass balance of various gases in flume water
Concentrations of helium, xenon, argon och methane were measured in the in- and outlet water of the flumes using mass-spectrometry . A mass balance of the gases yielded air-water gas exchange velocities.
(2) turbulent kinetic energy dissipation estimates based on Acoustic Doppler Velocimetry
Three dimensional flow velocities were measured at 24 locations per flume using an Acoustic

ⓘ Accessibility level
Access to data through SND
Data are freely accessible

Use of data
Things to consider when using data shared through SND
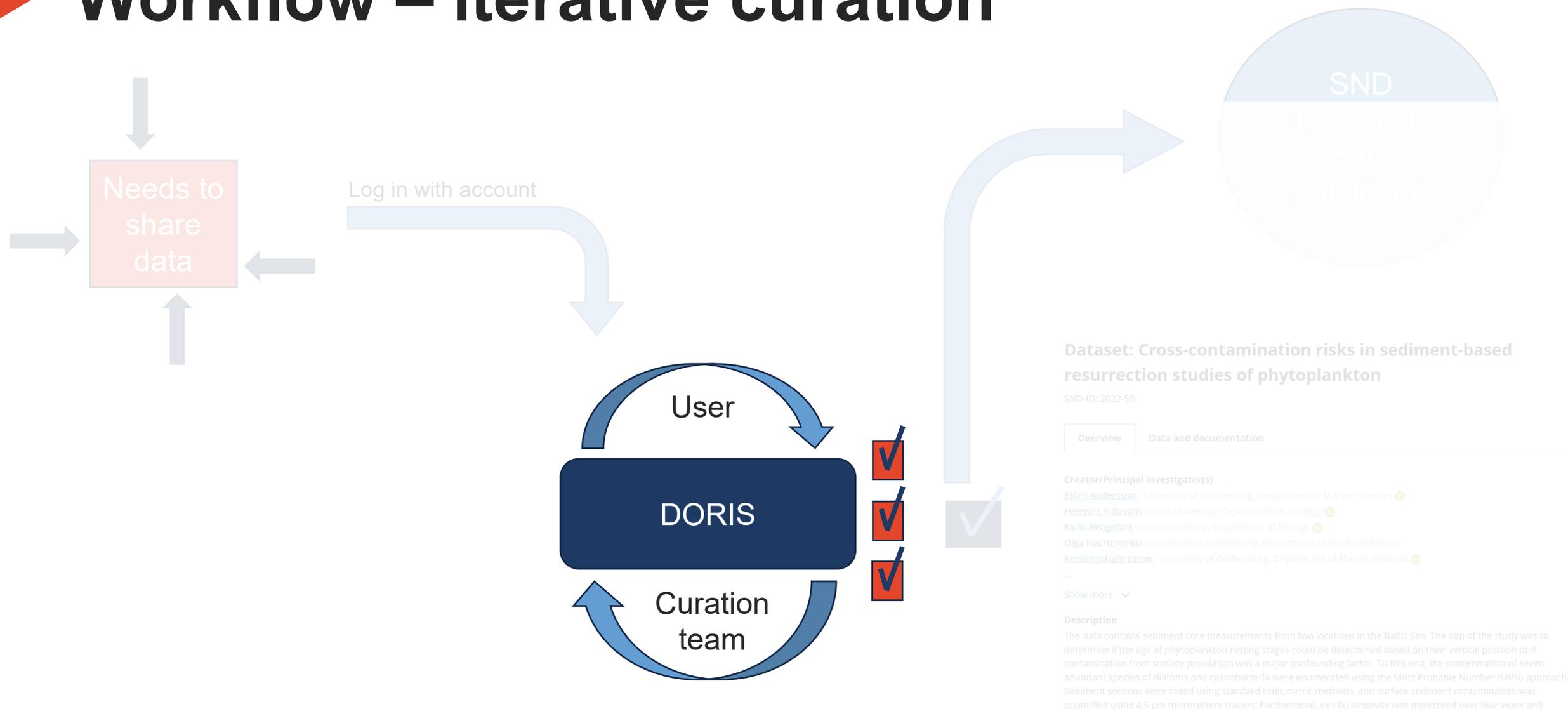
↗ Homepage
https://www.researchgate.net/project/ExSONIC-Experimental-evaluation-of-stream-atmosphere-gas-exchange-by-hydro-acoustics

✉ Contact for questions about the data
Marcus Klaus

Workflow – iterative curation

Shared file formats

Download data

Contribution_of_turbulence_and_bubbles_to_air-water_gas_exchange_in_running_waters.tsv *(12.36 KB)*

Associated documentation

Contribution_of_turbulence_and_bubbles_to_air-water_gas_exchange_in_running_waters_VariableDescription.pdf

Vingiani_2021_chamber_method.pdf

Klaus_2022_bubble_flume_k.pdf

Menti.com

5485 7838

Thank you!

https://snd.gu.se/en

Ida.taberman@slu.se

Ida Taberman

Domainspecialist SND

Bonus material

https://snd.gu.se/en/data-management-online-qa-climate-and-environmental-data

SND-Network, -consortium and -office

DAU (Data Access Units)
SND-nätverkets lokala enheter för
hantering och delning av forskningsdata.

**Domänspecialister (dospar)
och flaggskeppsprojekt**
Varje konsortielärosätes bidrag i SND-
arbetet. Motsvarar en heltidstjänst vid
varje lärosäte.

Data type	Example	SND?
Data supporting a scientific publication	Bumblebee queen mortality along roads increase with traffic, https://doi.org/10.5878/mrva-kt50	✔
Ended/closed – "this is all we got"	Swedish Historical Phenology Dataset, https://doi.org/10.5878/sa66-2586	✔
Extractions and/or aggregated data	Moose migration in county Norrbotten during 2022 — WRAM, SMHI, Pellet group counts, DNA-analysis, And more	✔
"unused" or additional material	Fe ICP-MS analysis / Pike By-catch	✔ ✔
Belongs elsewhere	E-DNA in other repositories, Species Observation System and more.	✘
Ongoing studies or EMA	Ongoing studies or Environmental monitoring and Assessment that has another place to openly publish data	✘

Usually but exceptions exists

Archive and publish (at SLU)

Swedish National Data Service

Collaboration between institutions and agencies in Sweden.

(Sorry for Swedish names)

SND-research data catalogue - SND

"The curation teams" –
Data Access Unit (DAU)

Högskolan Dalarna
Örebro universitet
Karlstads universitet
Högskolan i Skövde
Högskolan Väst
Högskolan i Borås
Göteborgs universitet
RISE
Chalmers tekniska högskola
Högskolan i Halmstad
Lunds universitet
Malmö universitet

Luleå tekniska universitet
Polarforskningssekretariatet
Umeå universitet
Mittuniversitetet
Högskolan i Gävle
Uppsala universitet
Statens veterinärmedicinska anstalt
Sveriges lantbruksuniversitet
Mälardalens högskola
Stockholms universitet
Karolinska institutet
Kungliga tekniska högskolan
Handelshögskolan i Stockholm
Gymnastik- och idrottshögskolan
Enskilda Högskolan Stockholm
Sophiahemmet Högskola
Försvarshögskolan
Södertörns högskola
Linköpings universitet
Jönköping University
Linnéuniversitetet
Högskolan Kristianstad
Blekinge tekniska högskola

When someone leaves or retires

When leaving the department

Clear out workspace ☑

Leave work phone ☑

Leave keys ☑

Hand over research data ☐