Physico-chemical parameters measured at a high spatial resolution in the Miellajokka catchment, Sweden

SND-ID: snd1077-1. **Version**: 2. **DOI**: https://doi.org/10.5878/rtvm-yc23

Download data

global_pco2_k.csv *(446.21 KB)*

Readme.txt *(327 bytes)*

spatial_miella_submission.csv *(24.42 KB)*

spatial_miella_submission.xlsx *(39.04 KB)*

Associated documentation

Metadata-co2domains.pdf *(157.88 KB)*

Download all files

snd1077-1-2.zip *(~667.87 KB)*

Citation

Rocher-Ros, G. (2024) Physico-chemical parameters measured at a high spatial resolution in the Miellajokka catchment, Sweden (Version 2) [Data set]. Umeå University. Available at: https://doi.org/10.5878/rtvm-yc23

Creator/Principal investigator(s)

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Research principal

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Description

High spatial resolution dataset of CO2 evasion in a stream network in northern Sweden (52.5 km2; Miellajokka catchment). We measured key hydrological parameters to estimate k600, directly determined the pCO2, and estimated stream CO2 evasion across 168 sites in the stream network.

Comparison of pCO2 values from a global compilation of river chemistry (GLORICH; Hartmann et al., 2014) with calculated site-specific k600 and CO2 evasion.

Data contains personal data

No

Language

English

Time period(s) investigated

2016-07-11 – 2016-07-20

Data format / data structure

Numeric

Geographic spread

Geographic location: Sweden, Kiruna Municipality

Geographic description: A stream network in northern Sweden (52.5 km2; Miellajokka catchment)

Responsible department/unit

Department of Ecology and Environmental Sciences

Research area

Earth and related environmental sciences (Standard för svensk indelning av forskningsämnen 2011)

Geosciences, multidisciplinary (Standard för svensk indelning av forskningsämnen 2011)

Natural sciences (Standard för svensk indelning av forskningsämnen 2011)

Oceanography, hydrology and water resources (Standard för svensk indelning av forskningsämnen 2011)

Biological sciences (Standard för svensk indelning av forskningsämnen 2011)

Climatology / meteorology / atmosphere (INSPIRE topic categories)

Environment (INSPIRE topic categories)

Keywords

Hydrology, Dissolved co2

Publications

Rocher-Ros, G., Sponseller, R. A., Lidberg, W., Mörth, C.-M., & Giesler, R. (n.d.). Landscape process domains drive patterns of CO2 evasion from river networks. In Limnology and Oceanography Letters (Vol. 4, Issue 4, pp. 87–95). https://doi.org/10.1002/lol2.10108
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Polygon (Lon/Lat)

10.986722, 69.0625

10.986722, 55.337112

24.163279, 55.337112

24.163279, 69.0625

10.986722, 69.0625

Accessibility level

Access to data through SND
Data are freely accessible

Use of data

Things to consider when using data shared through SND

Versions

Version 2. 2024-01-31
Version 1.0. 2018-12-20

Contact for questions about the data

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This resource has the following relations

Obsoletes https://doi.org/10.5878/77ps-4f21

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