

# Mapping of base cation deposition in the Nordic countries

**SND-ID:** ecds0075-1. **Version:** 1.0. **DOI:** <https://doi.org/10.5879/kjjk-gz33>

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ECDS0075\_001\_v1.0.zip (3.47 MB)

## Associated documentation

ReadMe\_Catalogue structure.txt (1.17 KB)

tdna98.gif (42.72 KB)

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ecds0075-1-1.0.zip (~3.51 MB)

## Citation

Persson, C. (2019) Mapping of base cation deposition in the Nordic countries (Version 1.0) [Data set]. SMHI - Swedish Meteorological and Hydrological Institute. Available at: <https://doi.org/10.5879/kjjk-gz33>

## Creator/Principal investigator(s)

Christer Persson

## Research principal

[SMHI - Swedish Meteorological and Hydrological Institute](#)

## Description

Base cation deposition from the atmosphere provides, together with weathering, ions for neutralising acidity and, after sufficient reductions of acidifying deposition, a source for replenishing lost base cation pools. The present dataset is a mapping of base cations over the Nordic countries and was performed using the data assimilation part of the SMHI MATCH-model as of 2003 (optimum interpolation) with a grid spacing of 11km. The mapping was based on monitoring data for concentrations of base cations in air and precipitation in the Nordic and surrounding countries. For a detailed description of the methodology the reader is referred to Lövblad et al., 2003, pp7-14.

## Data contains personal data

No

## Language

[English](#)

## Time period(s) investigated

1998 – 1998

## Data format / data structure

[Geospatial](#)

## Geographic spread

Geographic location: [Sweden](#), [Denmark](#), [Finland](#), [Norway](#)

## Contributor(s)

Thomas Klein

## Research area

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

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

[Geoscientific information](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

## Keywords

[Atmospheric precipitation](#), [Base \(chemical\)](#)

## Publications

Lövblad, G., Persson, C., Klein, T., Ruoho-Airola, T., Hovmand, M., Tarrason, L., Tørseth, K., Larssen, T., Moldan, F., Rapp, L., 2004. The deposition of base cations in the Nordic countries. IVL, B1583, 36pp.

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

## Polygon (Lon/Lat)

3, 73

3, 53

33, 53

33, 73

3, 73

## 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 1.0. 2019-02-20

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**Published:** 2019-02-20

**Last updated:** 2019-09-17