

NO2 concentrations in Sweden 2010

SND-ID: ecds0156-1. **Version:** 1.0. **DOI:** <https://doi.org/10.5879/gkq0-x541>

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ECDS0156-001_V1.0.zip (22.5 MB)

Associated documentation

NO2_2010_mean_nat.png (61.04 KB)

PM10_2010_mean_nat.png (59.4 KB)

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ecds0156-1-1.0.zip (~22.62 MB)

Citation

Backström, H. (2019) NO2 concentrations in Sweden 2010 (Version 1.0) [Data set]. SMHI - Swedish Meteorological and Hydrological Institute. Available at: <https://doi.org/10.5879/gkq0-x541>

Creator/Principal investigator(s)

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Research principal

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Description

Nitrogen dioxide (NO₂) and particulate matter (PM-10) concentrations in ambient air, in Shape format covering Sweden. Data represent annual mean values for year 2010 with 1 km resolution in cities and 11 km resolution in rural areas. The coordinate system is Sweref99 TM. Data has been produced with the SIMAIR system, which consists of the nested models MATCH Europe, MATCH Sweden and the urban background model BUM. PM-10 concentration represents inhalable particles.

Model data built on official environmental reporting. Improved resolution in cities, built in SIMAIR model data with 1 km grid. Emission data based on official sources for international reporting. Meteorological data from Mesan reanalysis.

Data contains personal data

No

Language

[English](#)

Time period(s) investigated

2010 - 2010

Data format / data structure

[Geospatial](#)

Data collection 1

- Description of the mode of collection: Data has been produced with the SIMAIR system, which consists of the nested models MATCH Europe, MATCH Sweden and the urban background model BUM.
- Time period(s) for data collection: 2010 – 2010

Geographic spread

Geographic location: [Sweden](#)

Research area

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

[Meteorology and atmospheric sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Environment](#) (INSPIRE topic categories)

Keywords

[Nitrogen oxides](#)

Publications

Peter de Smet, Frank de Leeuw, Jan Horálek, Pavel Kurfürst: A European compilation of national air quality maps based on modelling. ETC/ACM Technical Paper 2013/3, March 2013.

<http://acm.eionet.europa.eu/>

[Technical Paper 2013/3](#)

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)

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](#)

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Versions

Version 1.0. 2019-02-22

Related research data in SND's catalogue

[PM10 concentrations in Sweden 2010](#)

Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

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[File overview \(CSV\)](#)

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