EEA geospatial data catalogue

pm25, European air quality data for 2021, (interpolated data), August 2023

The data set provides values for the human health related indicator of PM2.5 (annual average concentration) at 1 km2 grid combining monitoring air quality data in a 'regression-interpolation-merging mapping' methodology and the observational values of the air quality monitoring stations used in the interpolation. It covers Europe for the year 2021.

This data set is used to estimate population exposure to air pollution and for the health impact assessments published by the EEA (see, for example, Health impacts of air pollution in Europe, 2022 — European Environment Agency (europa.eu) at https://www.eea.europa.eu/publications/air-quality-in-europe-2022/health-impacts-of-air-pollution). The methodology and the corresponding maps can be found in the 2023 ETC HE report 2023/3 "Air quality maps of EEA member and cooperating countries for 2021. PM10, PM2.5, O3, NO2, NOx and BaP spatial estimates and their uncertainties" https://www.eionet.europa.eu/etcs/etc-he/products/etc-he-products/etc-he-reports/etc-he-report-2023-3-air-quality-maps-of-eea-member-and-cooperating-countries-for-2021-pm10-pm2-5-o3-no2-nox-and-bap-spatial-estimates-and-their-uncertainties .

Simple

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Point of contact

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Point of contact

No information provided.

Maintenance and update frequency	Annually
GEMET - INSPIRE themes, version 1.0	• Atmospheric conditions • Environmental monitoring facilities • Human health and safety
Keywords	
Keywords	
GEMET	• traffic • troposphere • atmospheric composition • atmospheric pollution • atmospheric particulate • air quality monitoring • transboundary pollution • air quality
Continents, countries, sea regions of the world.	• EEA38 (from 2020)

	• San Marino • Monaco • Andorra • United Kingdom
Spatial scope	• European
INSPIRE priority data set	• Monitoring stations (Air Quality Directive) • Measurement and modelling data (Air Quality Directive) • Directive 2008/50/EC
EEA topics	• Air pollution
Temporal resolution	• Annually
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Aggregate Datasetindentifier	282ed4e9-d58a-44ae-8c48-e688bdfed281
Association Type	Cross reference
Spatial representation type	Grid

Spatial resolution

No information provided.

Distance	1 km
Language of dataset	English
Topic category	• Environment

72.00	N	34.00	S	45.00	E	-25.00	W

Begin date	2021-01-01
End date	2021-12-31
Coordinate reference system identifier	EPSG:3035
Distribution format	• GeoTIFF ( )

OnLine resource

Protocol	Linkage	Name
EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_aq-interpolated-pm25_p_2021_v01_r00/	
WWW:URL	https://sdi.eea.europa.eu/data/c0ca09a4-d9fe-4772-bc48-90cf31639442	Direct download

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement

The data set and corresponding maps are derived primarily from the e-reporting Air Quality database, consisting of monitoring stations data reported to EEA, and some additional EMEP (European Monitoring and Evaluation Programme) station monitoring data, supplemented with, among others, altitude, meteorological ECMWF data, EMEP concentration modelling data and satellite data. These data sets and the corresponding maps are assessment tools for use at the European scale. They may show results which differ from assessments made at national scale and should not be used to check formal compliance with regulated standards.

The methodology and the corresponding maps can be found in the 2021 Eionet report "European air quality maps for 2019. PM10, PM2.5, Ozone, NO2 and NOx Spatial estimates and their uncertainties" (ETC/ATNI Report 1/2021) available at https://www.eionet.europa.eu/etcs/etc-atni/products/etc-atni-reports/etc-atni-report-1-2021-european-air-quality-maps-for-2019-pm10-pm2-5-ozone-no2-and-nox-spatial-estimates-and-their-uncertainties .

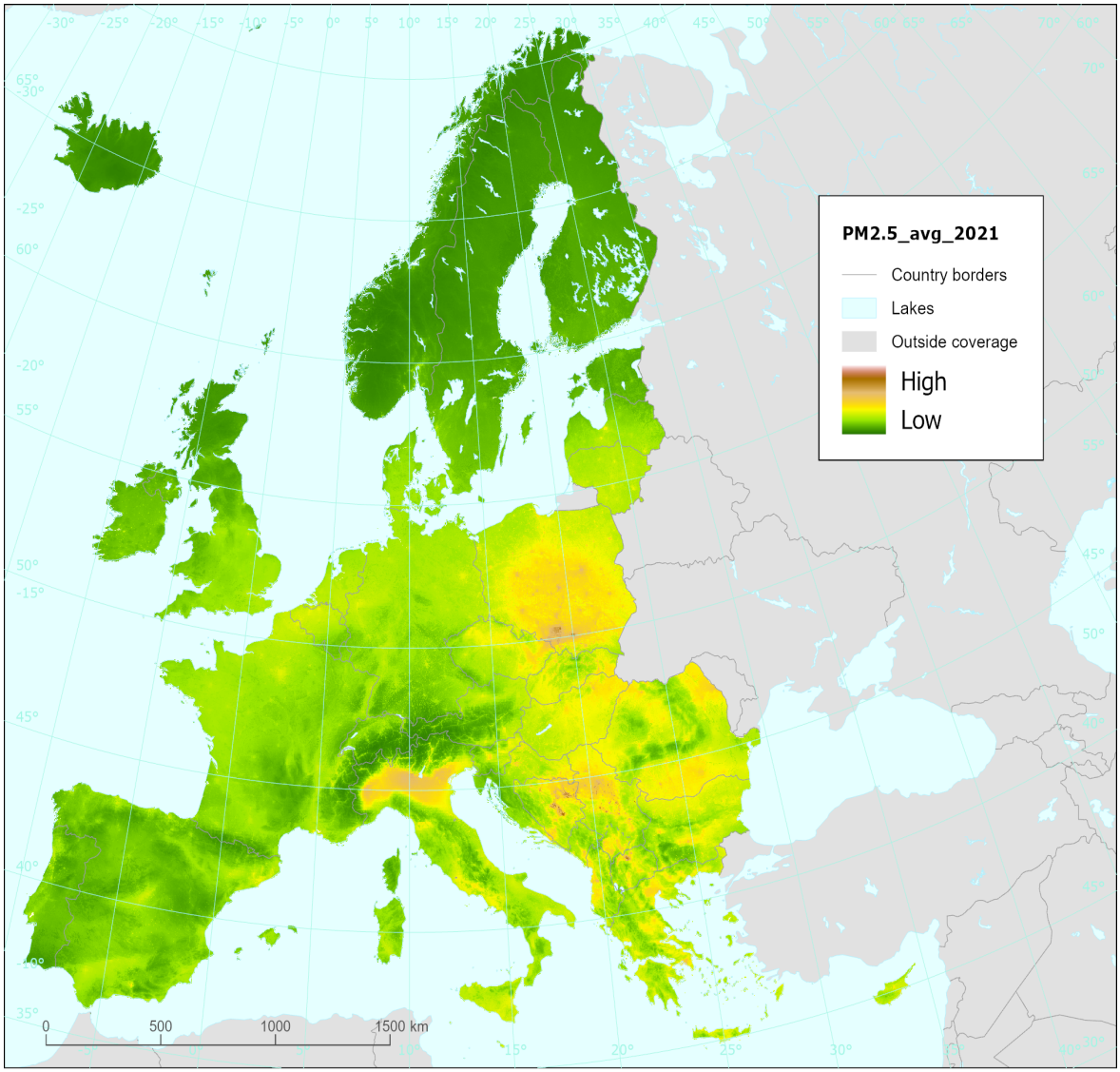
Metadata

File identifier	c0ca09a4-d9fe-4772-bc48-90cf31639442 XML
Metadata language	English
Character set	UTF8

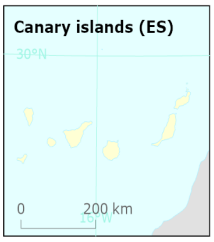
Hierarchy level	Dataset
Date stamp	2024-02-02T08:58:30.778Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0
Metadata author	

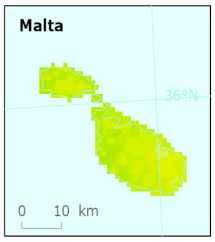
Organisation name	Individual name	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu		Point of contact

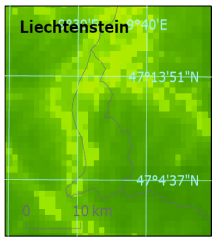
Overviews



Reference data: © EuroGeographics, © FAO (UN), © TurkStat Source: European Commission – Eurostat/GISCO







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