

## Annual number of Cooling Degree Days (1990-2015 average), version 1.0, Jan. 2019

The dataset presents the annual number of Cooling Degree Days (CDD) in average for the period 1990-2015, for a series of individual European cities from Eurostat's Urban Audit 2011-2014 spatial dataset, based on the E-OBS dataset from the EU-FP6 project ENSEMBLES (<a href="http://ensembles-eu.metoffice.com">http://ensembles-eu.metoffice.com</a>) and around 10,000 meteorological stations across Europe.

This dataset has been used in the EEA Report No 22/2018 "Unequal exposure and unequal impacts: social vulnerability to air pollution, noise and extreme temperatures in Europe" (
<a href="https://www.eea.europa.eu/publications/unequal-exposure-and-unequal-impacts/at\_download/file">https://www.eea.europa.eu/publications/unequal-exposure-and-unequal-impacts/at\_download/file</a>), where CDD is defined as the sum of the difference in degrees between 21 °C and the mean temperature over the year, for the days when the mean daily temperature is higher than 21 °C.

The number of CDDs is useful in differentiating between areas based on the need for cooling homes or workplaces. As a measurement designed to quantify the demand for energy needed to cool a building in order to keep it at a comfortable temperature, it is relevant to issues of thermal comfort and energy affordability.

### **Simple**

Date (Creation)	2019-01-12T00:00:00
Date (Publication)	2019-01-28T00:00:00
Edition	01.00
Citation identifier	metoffice_v_3857_100_k_cooling-degree-days_p_1990-2015_v01_r00

#### Point of contact

No information provided.

Maintenance and update frequency	Not planned
GEMET - INSPIRE themes, version 1.0	Atmospheric conditions     Meteorological geographical features
Keywords	
Keywords	
GEMET	<ul> <li>climate change impact</li> <li>temperature</li> <li>climate</li> <li>temperature change</li> <li>climate change adaptation</li> <li>health</li> <li>cooling</li> </ul>
Continents, countries, sea regions of the world.	Norway     Switzerland     EU27 (from 2020)     Iceland     United Kingdom
Spatial scope	• European
EEA topics	

Climate adaptation

### Resource constraints

No information provided.

Access constraints	Other restrictions				
Other constraints	no limitations to public access				
Use constraints	Other restrictions				
Other constraints	This dataset is based on different sources:  1) The climate data associated to the individual cities are made freely available for academic, educational and commercial use, but use its must be acknowledged by inclusion of the following statement: "The ENSEMBLES data used in this dataset was funded by the EU FP6 Integrated Project ENSEMBLES (Contract number 505539), whose support is gratefully acknowledged". More information about the ENSEMBLES data policy is available here: <a href="http://ensembles-eu.metoffice.com/docs/Ensembles_Data_Policy_261108.pdf">http://ensembles-eu.metoffice.com/docs/Ensembles_Data_Policy_261108.pdf</a> .  2) The geometry of the dataset is derived from the Urban Audit Cities 2011-2014 dataset is publicly available and can be used for non commercial purposes. The source and intellectual property have always to be acknowledged for the original data and for derived data. For the centroid geometry (c) EuroGeographics.				
	3) As a dataset published by the EEA, it also applies the 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 ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ).				
Spatial representation type	Vector				
Denominator	100000				
Distance	0.25 deg				
Language of dataset	English				
Topic category	Environment     Climatology, meteorology, atmosphere				
Begin date	1990-01-01				
End date	2015-12-31				

N S E W

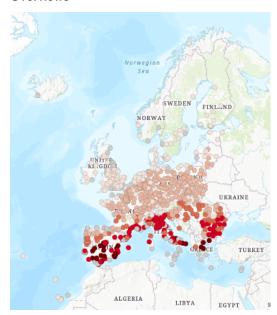


Metadata

	I			
Coordinate reference system identifier	EPSG:3857			
Distribution format	• GDB()			
	• SHP()			
OnLine resource	Protocol	Linkage	Name	
	EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public /metoffice v 3857 100 k cooling-degree-days p 1990- 2015 v01 r00/		
	WWW:LINK-1.0-httplink	https://climate-adapt.eea.europa.eu/en/knowledge/tools/urban-adaptation		
	www:url	https://sdi.eea.europa.eu/data/da3f3ad6-f582-4577-8e96-bfc7421f937e	Direct download	
	OGC:WMS	https://climate.discomap.eea.europa.eu/arcgis/services/UAMV/CoolingDegreeDays/MapServer/WMSServer? request=GetCapabilities&service=WMS	0	
	ESRI:REST	https://climate.discomap.eea.europa.eu/arcgis/rest/services/UAMV/CoolingDegreeDays/MapServer		
Hierarchy level	Dataset			
Conformance result	I			
Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services			
Date (Publication)	2010-12-08			
Explanation	See the referenced specification			
Statement	0.25° spatial resolution, based on over 10,000 stations at ENSEMBLES ( http://ensembles-eu.metoffice.com), data project ( http://www.ecad.eu). Updated from Haylock, M. temperature and precipitation', Journal of Geophysical Re	5 were calculated based on the E-OBS dataset, which is a gridded dorross Europe. E-OBS dataset is an outcome of the EU-FP6 project is provided by the European Climate Assessment and Dataset (EC. R., et al., 2008, 'A European daily high-resolution gridded dataset of esearch 113, p. D20119 (DOI: doi:10.1029/2008JD10201).  by the EU FP6 Integrated Project ENSEMBLES (Contract number 50)	A&D) f surface	

Metadata language	English			
Character set	UTF8			
Hierarchy level	Dataset			
Date stamp	2021-09-02T12:05:16.46Z			
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



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