

Soil moisture deficit during the vegetation growing season, annual time-series, 2000-2019, Sep. 2020

The dataset consists of a collection of annual soil moisture (SM) anomalies during the vegetation growing season (GS) for the years 2000-2019 across EEA 38 area and the United Kingdom. The vegetation growing season is defined by EEA's phenology data series "Vegetation growing season length 2000-2016", available in the EEA website and in this catalogue.

The anomalies are calculated based on the European Commission's Joint Research Centre European Drought Observatory (EDO) Soil Moisture Index (SMI) with respect to the 1995–2019 base period. The yearly start and end of GS periods are dynamic and calculated according to the EEA Phenology Indicators. A positive anomaly indicates that the observed SM was wetter than the long-term SM average for the base period, while a negative anomaly indicates that the observed SM was drier than the reference value. Because SM anomalies are measured in units of standard deviation from the long-term SMI average, they can be used to compare annual deficits/surplus of SM between geographic regions.

EDO is one of the early warning and monitoring systems of the Copernicus Emergency Management Service. As the dataset builds on EDO's SMI, it therefore contains modified Copernicus Emergency Management Service information (2019).

Simple

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Date (Publication)	2020-09-28T00:00:00				
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Status	Superseded				
Point of contact	Organisation name	Individual name	Electronic mail address		Role
	European Environment Agency		sdi@eea. europa.eu	http://www eea. europa.eu	Point of contact
	European Environment Agency		sdi@eea. europa.eu		Custodian
Maintenance and update frequency	Annually				
GEMET - INSPIRE themes, version 1.0	• Soil				
Keywords					
Keywords					
GEMET	 soil moisture climate change adaptation drought land use environmental pressure ecosystem degradation 				
Continents, countries, sea regions of the world.	EEA38 (from 2020) United Kingdom				
Temporal resolution	• Annually				

Spatial scope	• European
EEA topics	Agriculture and food Climate adaptation Soil Biodiversity.
EEA Management Plan	• 2020 1.8.2
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	This dataset is derived from the European Commission's Joint Research Centre European Drought Observatory (EDO) Soil Moisture Index (SMI), which as a component of the Copernicus Emergency Management Service, follows the Terms and Conditions of Access as stated here: https://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1044 .
	As an EEA derived product, the EEA standard re-use policy also applies: 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: EEA, European Union.
Spatial representation type	Grid
Distance	5 km
Language of dataset	English
Topic category	Climatology, meteorology, atmosphere Environment
Begin date	2000-01-01
End date	2019-12-31





Coordinate reference system identifier	EPSG:3035		
Distribution format	• GeoTIFF()		
OnLine resource	Protocol	Linkage	Name
	EEA:FILEPATH	https://sdi.eea.europa.eu/webdav/datastore/public /eea_r_3035_5_km_smoisture-anomalies-gs-2019_p_2000- 2019_v01_r00 /SM_5x5km_LongTerm_mean_GS_00_19_crs3035.tif	
	www:url	fchcf2615841	Direct download
	OGC:WMS	https://land.discomap.eea.europa.eu/arcgis/services/Drought /Growing Season Mean Soil Moisture 2000 2019/MapServer /WMSServer?request=GetCapabilities&service=WMS	
	ESRI:REST	https://land.discomap.eea.europa.eu/arcgis/rest/services /Drought/Growing Season Mean Soil Moisture 2000 2019 /MapServer	
Hierarchy level	Dataset		
Conformance result	1		

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	Annual soil moisture (SM) anomaly values are calculated based on a time-series of the European Commission's Joint Research Centre European Drought Observatory (EDO) Soil Moisture Index (SMI). The SMI dataset is gridded at 5km spatial resolution and measures the ratio between local wilting point and field capacity of the soil profile on a 10-day temporal frequency. SM anomalies are measured in units of standard deviation from the long-term SMI average (i.e. values are ranging between 0 and 1) with respect to the 1995–2019 base period. More information about the SMI on: https://edo.jrc.ec.europa.eu/documents/factsheets/factsheet_soilmoisture.pdf.
Source	Annual above ground vegetation season length time-series 2000-2016 - version 1, Aug. 2018

Data quality info

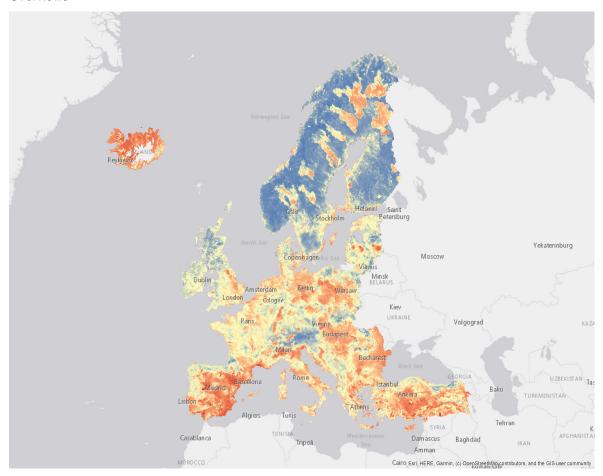
No information provided.

Metadata

File identifier	a21e58ad-ff91-436c-866a-fcbcf2615841 <u>XML</u>

Metadata language	English				
Character set	UTF8				
Hierarchy level	Dataset				_
Date stamp	2023-06-14T11:53:53.103Z				
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 conta	

Overviews



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