Section	Description
Resource Title	CO_2 sequestration from forest and bogs – Demand
Resource Abstract	Atmospheric CO_2 is one of the most well known greenhouse gases and one of the most powerful drivers of climate change. The sequestration of CO_2 from the atmosphere is therefore an important regulating ecosystem service that is recognized by international environmental obligations and reporting programmes. The benefits of CO_2 sequestration are not limited to the Alpine population, but represent the contribution of the Alpine area to global climate protection. Within AlpES, the ecosystem service CO_2 sequestration is considered in relation to the ecosystems mountain forest and Alpine bogs. However, due to data availability and reliability, the indicator maps produced within AlpES only include the contribution to CO_2 sequestration given by forests.
Resource Type	Dataset
Resource locator	http://www.alpes-webgis.eu/?X=850359.92&Y=5947762.56&zoom=6&lang=en&focus=focus_alpes&bgLayer=alpes.osm.stamentoner.60002&layers=alpes.alpinespace.40001.wms,alpes.essi.10061&catalogNodes=101000000,101000006&layers_opacity=1,0.7
Unique Resource Identifier	CYVE-UK6K-NAJK-YMX2
Resource Language	eng
Topic Category	Environment Transportation Climatology/Meteorology/Atmosphere
Keyword value	Atmospheric conditions (INSPIRE Spatial Data Theme) Emission to air (GEMET concepts) Atmospheric emission (GEMET concepts) Carbon emission (GEMET concepts)
Originating controlled vocabulary	- title: GEMET - INSPIRE themes, version 1.0 - date: -dateType: publication -date: 2008-06-01 - title: GEMET - Concepts, version 4.0.1 - date: -dateType: publication -date: 2017-06-28
Geographic bounding box	West = 1.986194 East = 18.622061 North = 50.068114 South = 42.700501

Coordinate reference System	EPSG: 3035 (ETRS89, LAEA)
Temporal extent	2010
Date of publication	2018-07-20
Lineage	The indicator represents the CO_2 emissions per municipality for the year 2010. The original data (Trombetti et al. 2017), has been integrated with the dataset from the EDGAR database to include the area of Switzerland. The datasets were disaggregated at the municipal level to assess the tons of CO_2 emitted per hectare. Units of measurement: t CO_2 $ha^{-1}y^{-1}$ Trombetti M., Pisoni E., Lavalle C. (2017). Downscaling methodology to produce a high resolution gridded emission inventory to support local/city level air quality policies, Office for Official Publications of the European Communities, Luxembourg, EUR 28428 EN, doi:10.2760/51058 EDGARv4.2, European Commission, Joint Research Centre (JRC)/PBL Netherlands Environmental Assessment Agency. Emission Database for Global Atmospheric Research (EDGAR), release version 4.2.
Spatial resolution	100000
Specification	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 of publication: 2010-12-08.
Degree	Null
Conditions applying to access and use	CC BY-NC 4.0
Limitations on public access	No Limitation
Responsible party	Eurac Research, Viale Druso 1, 39100 Bolzano, Italy Institute for Alpine Environment - alpine.environment@eurac.edu
Responsible party role	Author
Metadata point of contact	Eurac Research, Viale Druso 1, 39100 Bolzano, Italy Institute for Alpine Environment - alpine.environment@eurac.edu
Metadata date	2017-09-18
Metadata language	eng