

GENERAL INFORMATION	
Parameter name	Average interval subsurface temperature
Name of the layer in EGD Map Viewer	Average interval subsurface temperature, Vienna
Original name of the layer uploaded to EGD database	PP01_GBA_subsurface_temp
Category	Resources for closed-loop systems
Definition	Average temperature below ground level within a given depth interval.
Harmonized unit	°C
Depth interval	0 – 100 m.
Relevance for shallow geothermal energy	Estimated annual average subsurface temperature for a given depth interval.
Data type	Continuous data layer
Data format	raster
Grid size	50 m
Projection	EPSG: 3034
Dataset selected for pilot area	Bratislava, Vienna , Ljubljana, Girona, Warsaw

ATTRIBUTES	
Unit	°C

DATA SOURCE	
Pilot area	Vienna
Data source	Geological Survey of Austria
Contact data owner	Cornelia.steiner@geologie.ac.at
Last Update	13.04.2021

Explanatory text English
Based on undisturbed underground temperature profiles measured within the framework of thermal response tests (TRTs), a mean geothermal gradient of 2 °C / 100 m was determined for the pilot area. This temperature gradient, the land surface temperature from MODIS data and the mean groundwater temperature were used to calculate the mean underground temperature for a depth interval from 0 to 100 m.

Explanatory text national language	
Language	German
Basierend auf ungestörten Untergrundtemperaturprofilen, die im Rahmen von Thermal Response Tests (TRTs) gemessen wurden, wurde ein mittlere geothermischer Gradient von 2 °C/100 m für das Pilotgebiet bestimmt. Aus diesem Temperaturgradient, der jeweiligen Oberflächentemperatur	

aus dem MODIS Datensatz sowie der mittleren Grundwassertemperatur wurde die mittlere Untergrundtemperatur für das Tiefenintervall von 0 bis 100 m bestimmt.