

GENERAL INFORMATION	
Parameter name	Maximum groundwater temperature
Name of the layer in EGD Map Viewer	Maximum groundwater temperature, Vienna
Original name of the layer uploaded to EGD database	PP01_GBA_max_gw_temp.shp
Category	Resources for open-loop systems
Definition	Annual maximum groundwater temperature.
Harmonized unit	Degree Celsius
Relevance for shallow geothermal energy	Warmer groundwater temperatures mean higher resources for heating with groundwater heat exchangers in general. Legally binding maximum temperatures of the injected water might limit the temperature shift between pumping and injection well (and hence the thermal capacity for cooling of the system) depending on the maximum groundwater temperature at a specific location.
Data type	Continuous dataset
Data format	Raster
Projection	EPSG: 3034
Dataset selected for pilot area	Vienna, Zaragoza, Zagreb

ATTRIBUTES	
Unit	Degree Celsius

DATA SOURCE	
Pilot area	Vienna
Data source	Vienna Water Management (MA 45)
Contact data owner	Cornelia.steiner@geologie.ac.at
Last Update	13.04.2021

Explanatory text English
Map of maximum groundwater temperature in 2020. The maximum temperature was determined via a long term sine-wave analysis for temperature measurements in observation wells. In case of multiple measurements in different depth intervals, a mean value was calculated first for each day of measurement. The values of the observation wells were interpolated using "spline with barriers".

Explanatory text national language	
Language	German
Karte der maximalen Grundwassertemperatur in 2020. Die Maximalwerte der einzelnen Messstellen wurden durch Anpassung einer Sinuskurve an die Temperaturdaten ermittelt und anschließend mit der Interpolationsmethode „Spline with barriers“ interpoliert. Im Falle mehrere	

Messungen in verschiedenen Tiefenintervallen wurde zunächst daraus ein Mittelwert für den jeweiligen Messtag gebildet.