

Dsa

Mediterranean-Influenced Hot Summer Humid Continental

Location Examples:

- Muş, Turkey
- Bishkek, Kyrgystan
- Arak, Markazi Province, Iran
- Cambridge, Idaho, U.S.

study
By Larissa Sattler

This climate zone is only found at higher elevations and adjacent to areas with a hot summer Mediterranean climate (Csa). Temperatures are about 50°F (10°C) in the warmest months and average around 27°F (-3°C) in the colder months. It is also common to find this climate in the interior of continents, usually north of 40°N.

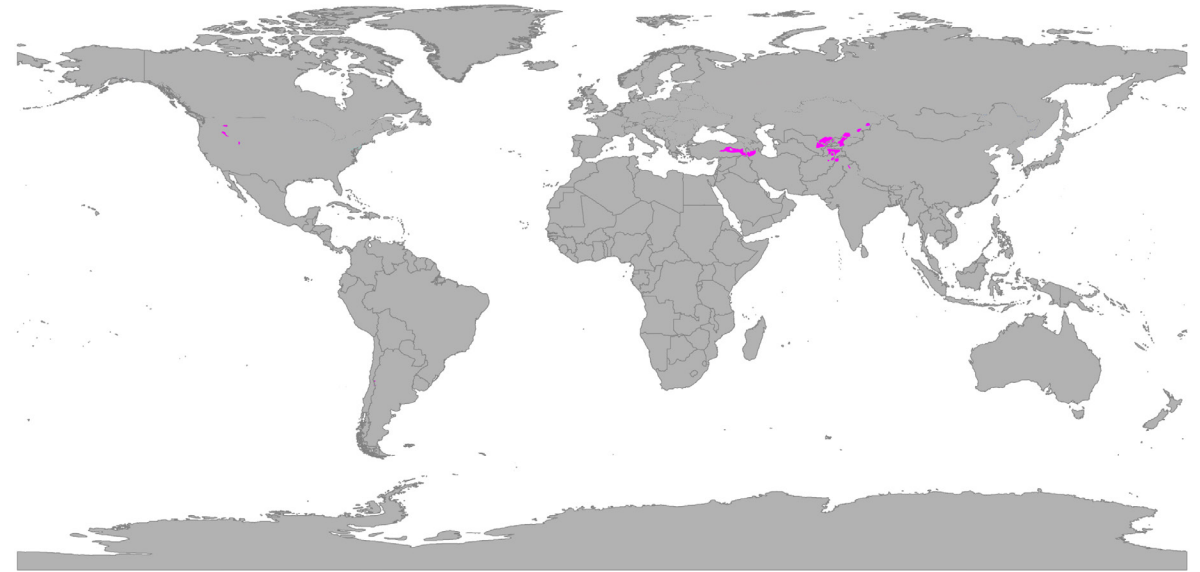
Materials used in this climate should be able to endure colder temperatures and exposure to weather. Additionally, due to its location on the interior of continents local materials, such as stone, are commonly used and readily available.

Sources:

https://en.wikipedia.org/wiki/K%C3%B6ppen_climate_classification

<https://vectormap.si.edu/Climate.htm>

<https://www.hellotravel.com/turkey/mus-turkey>

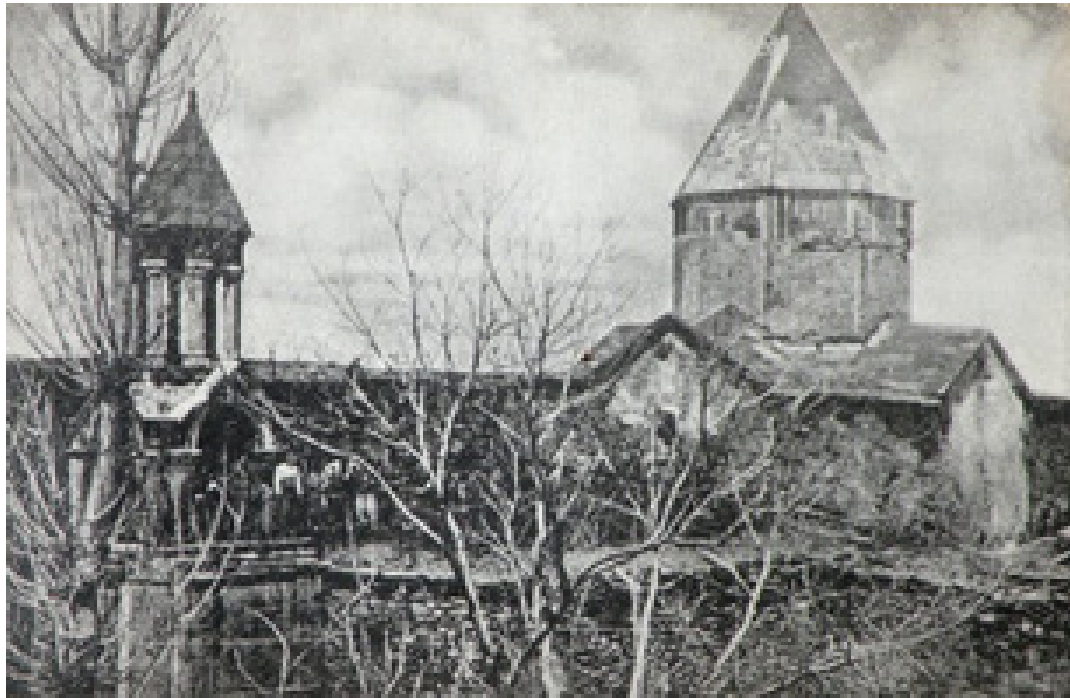


Muş, Turkey

Arakelots Monastery

case study
By Larissa Sattler

Location: Mus, Turkey



Architect: N/A

Founder: Gregory the Illuminator

Year of completion: 11th Century

Destroyed: 1960s

Climate: Dsa

Material of interest: Stone

Application: Exterior

Properties of material: Stone was a traditional material used for religious buildings at the time and was readily available in its location.

Sources:

http://www.armeniapedia.org/wiki/Arakelots_Monastery

<http://www.armenianheritage.org/en/monument/Arakelots/1069>

<http://www.virtualani.org/arakelots/>

Mus Airport

case study
By Larissa Sattler

Location: Mus, Turkey



Architect: GMW Mimarlik

Owner: DHMI (State Airports Authority of Turkey)

Year of completion: 2017 - Ground breaking

Climate: Dsa Climate

Material of interest: Metal cladding

Application: Exterior

Properties of material: The metal cladding serves as an envelope for the protection of the building. Moments of transparency are offered with the intersection of glazed external walls. The roof has been especially designed to avoid snow build up and endure the long and harsh snowy winters.

Sources:

Architect Website: <http://www.gmwmarlik.com/>

<https://archello.com/project/mus-airport>

