

Extremely cold subarctic climate

Location Examples:

• Oymyakon, Russia

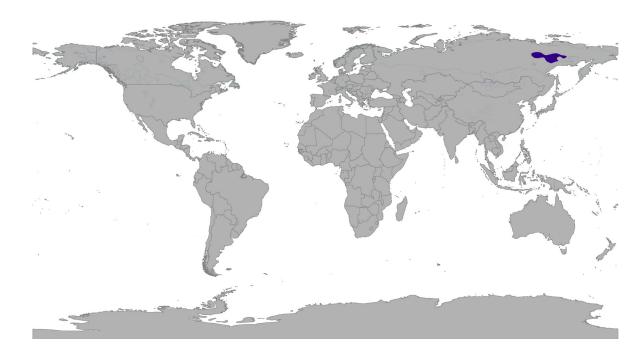
Regions with extremely cold subarctic climate have extremely long cold dry winters, and short, cool to mild summer. In the coldest months, the average temperature is -36.4 °F or below and 1-3 months is above 50 °F. It is at least ten times as much precipitation in the wettest month of summer as in the driest month of winter.

This climate includes a small area in the northeastern part in Russia.

Building material in this region requires durability in extreme weather. Another important consideration of building materials is to prevent thermal bridging.

Sources:

- 1. http://www.la.utexas.edu/us-ers/kimmel/GRG301K/grg301k-koppen.html
- 2. https://en.wikipedia.org/wiki/File:Russia_K%C3%B6ppen.svg





Vernacular Bank in Oymyakon

Location: Oymyakon, Russia







Architect: N/A

Owner: N/A

Year of completion: N/A

Climate: Extremely Cold Subarctic Climate

Material of interest: Wood

Application: Structure and Facade

Properties of material: Wood is a versatile and cost-effective material used in a huge variety of applications and situations. It is a renewable material and uses less energy and resources to process compared to many other building materials. As wood has the capacity to store and remove CO2 from the atmosphere, it can have a particularly beneficial impact on the environment. Wood is also an excellent insulator and can be built faster than many other materials.

Sources:

1. https://www.archdaily.com/771059/shigeru-bans-nepalese-emergency-shelters-to-be-built-from-rubble 2. https://www.designingbuildings.co.uk/wiki/Wood_in_

Architecture

Vernacular Cafe in Oymyakon

Location: Oymyakon, Russia







Architect: N/A

Owner: N/A

Year of completion: N/A

Climate: Extremely Cold Subarctic Climate

Material of interest: Wood

Application: Structure and Facade

Properties of material: The dominant building material of Russian vernacular architecture, and material culture generally, for centuries was wood. Specifically houses were made from locally-cut rough-hewn logs, with little or no stone, metal, or glass. Traditional, old-style log house construction involved the use of simple tools, such as ropes, axes, knives, and spades. Nails were not generally used, as metal was relatively expensive, and neither were saws a common construction tool.

Sources:

1. https://plus.google.com/photos/photo/116710382920936442579/6538384150351 624642

2. https://en.wikipedia.org/wiki/lzba