

# Dfc

## Subarctic Climate

### Location Examples:

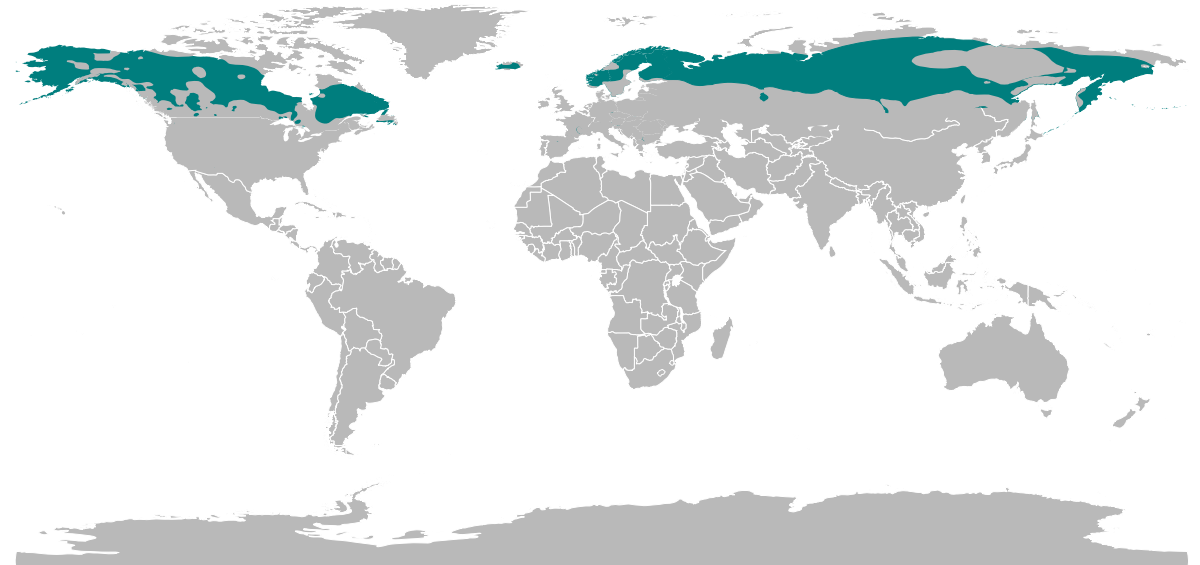
- Whitehorse, Yukon, Canada
- Fraser, Colorado, USA
  - Murmansk, Russia
- Mohe, Heilongjiang, China

Subarctic climate is characterized by coldest month averaging below 0 °C (32 °F) (or -3 °C (27 °F)) and 1–3 months averaging above 10 °C (50 °F). No significant precipitation difference between seasons (neither above-mentioned set of conditions fulfilled).

Exclusive to the near polar regions in Northern Hemisphere, Dfc climate is also known as boreal climate and is found in much of Alaska, Canada, Russia and Scandinavia.

### Sources:

<https://wikipedia.org/>  
<http://koeppen-geiger.vu-wien.ac.at/shifts.htm>  
<https://airlinkalaska.com/wp-content/uploads/Dalton-Highway-Alaska.jpg>



Location: Kandalaksha, Murmansk Oblast, Russia



**Architect:** BIO-Architects

**Owner:** N/A

**Year of completion:** 2018

**Climate:** Subarctic Climate (Koppen Climate Classification: Dfc)

**Material of interest:** Steel

**Application:** Exterior, Structure, Interior

**Properties of material:** Steel in forms of exterior cladding, structure and interior finishes were used to guarantee minimum weight, therefore the hut's deployability by helicopters to Russia's remote north.

**Sources:**

Architect Website: <http://www.bio-architects.com/>  
Web Magazine: <https://www.archdaily.com/895701/dubl-dom-in-kandalaksha-bio-architects>

**Photographer:**

Artem Lasovsky

# Fort McMurray International Airport

case study  
By Sheng Yan

Location: Fort McMurray, Alberta, Canada



**Architect:** Office of McFarlane Biggar Architects + Designers

**Owner:** Fort McMurray Airport Authority

**Year of completion:** 2014

**Climate:** Subarctic Climate (Koppen Climate Classification: Dfc)

**Material of interest:** Steel

**Application:** Exterior

**Properties of material:** Steel cladding of dark color tone is used for its lightness in weight for transportation, controlled precision for installation, and ability to absorb heat from sunlight to reduce heating load.

**Sources:**

Architect Website: <http://www.officemb.ca/>

Web Magazine: <https://www.archdaily.com/612923/fort-mcmurray-international-airport-office-of-mcfarlane-biggarr-architects-designers>

**Photographer:**

Emma Peter