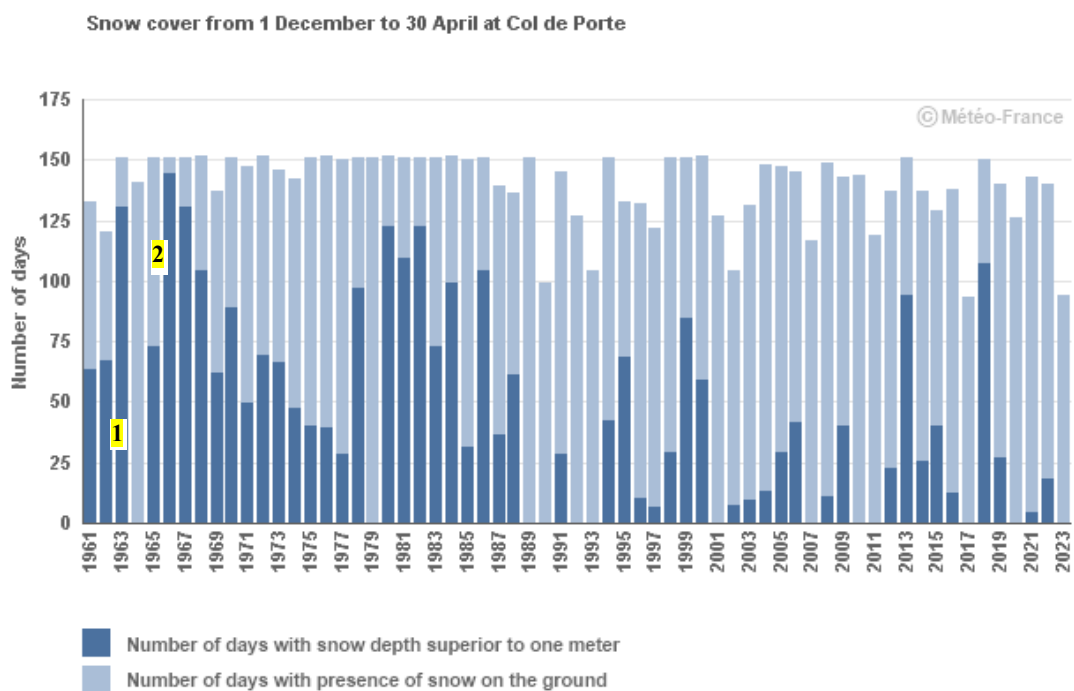


Evolution of snowfall National past climate

1. Graph reading aid



2 data sequences are shown in the graph:

Sequence 1 'histogram in dark blue':

Number of days during the course of a winter season with a measured snow cover of over one metre on the site of Col de Porte situated at 1320m in the Chartreuse mountain range (in the department of Isère)

Sequence 2 'histogram in pale blue':

Number of days during the course of a winter season with snow cover on the site of Col de Porte situated at 1320m in the Chartreuse mountain range (in the department of Isère)

On the horizontal axis, 1961 corresponds to the winter of 1960-61

2. Definitions

Winter season : The winter season of any given year concerns the period spanning the beginning of the month of August of the previous year and the end of the month of July of the current year. However, the snow cover period at the Col de Porte runs from 1 December to 30 April of the following year.

3. Data and methods

Daily observations of the height of snow cover have been made on the measuring site of Col de Porte (Météo-France) since 1960. The time series only has a robust climatological value for the 5 winter months from 1 December to 30 April, i.e. 151 days (152 days for leap years). These data, used for research purposes, have been checked and validated.

This indicator has been published on the 'Impacts of Climate Change: Mountains and Glaciers' portal (previously called ONERC).

4. References

Morin, S., *L'observatoire nivo-météorologique du col de Porte, Neige et Avalanche*, 141, 26-27, 2013.

Morin, S., Lejeune, Y., Lesaffre, B., Panel, J.-M., Poncet, D., David, P., and Sudul, M. : *An 18-yr long (1993–2011) snow and meteorological dataset from a mid-altitude mountain site (Col de Porte, France, 1325 m alt.) for driving and evaluating snowpack models*, *Earth Syst. Sci. Data*, 4, 13-21, doi : [10.5194/essd-4-13-2012](https://doi.org/10.5194/essd-4-13-2012), 2012.

Col de Porte website: <http://www.cnrm.meteo.fr/spip.php?rubrique218>

'Impacts of climate change: Mountains and glaciers' website:
<https://www.ecologie.gouv.fr/impacts-du-changement-climatique-montagne-et-glaciers>