

SHORT NOTES

GLACIER MAPS OF CANADA

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ABSTRACT. This note describes the series of seven maps at scales 1 : 1 000 000 showing the distribution of glaciers in Canada, with indication of information sources.

RÉSUMÉ. *Cartes des glaciers au Canada.* Cette note décrit la série de sept cartes à l'échelle 1 : 1 000 000 montrant la répartition des glaciers au Canada et indique aussi les sources de renseignements.

ZUSAMMENFASSUNG. *Gletscherkarten von Kanada.* Diese Notiz beschreibt mit Quellenangabe die Serie von sieben Karten im Massstab 1 : 1 000 000, die die Verteilung der Gletscher in Kanada zeigen.

GLACIOLOGICAL research in Canada received new impetus in 1965 with the organization of the International Hydrological Decade. One of the immediate requirements of research was for a small-scale map showing the distribution of glaciers in Canada, with indication of source of information. This type of map is essential in the selection of areas for further study and in the preparation of a glacier inventory. To meet this requirement, a series of seven maps was produced at scale 1 : 1 000 000. Three of the maps cover the Canadian Cordillera while the other four cover the Arctic islands and northern Labrador. The first map of the series, "Glacier map of southern British Columbia and Alberta", was published in 1965 (Falconer and others, 1966) and the series was completed in 1969.

For the first two maps covering part of the Cordillera in British Columbia, Alberta and south-eastern Alaska the projection is Lambert conformal conic with standard parallels lat. 49° N. and 77° N. For the remainder of the glacier maps, Lambert conformal conic projections with two standard parallels have been drafted for each map.

Hydrography was compiled from an enlarged version of the map of British Columbia (of the MCR 3 series of six maps of Canada) published at scale 1 : 2 000 000 in 1962. Where necessary the shorelines and the hydrography were modified using 1 : 250 000 and 1 : 500 000 topographical map series. Shore outline and hydrography of the remaining sheets of the glacier maps have been compiled from 1 : 1 000 000 aeronautical charts and from 1 : 250 000 and 1 : 500 000 topographical map series.

To compile the series, all glaciers shown on the best available topographic maps were outlined with heavy ink lines. The maps were photographically reduced and the glaciers replotted at the scale of 1 : 1 000 000.

On the glacier maps of the Canadian Cordillera, glaciers are shown in purple on a white background. On the glacier maps of the Queen Elizabeth Islands, Baffin Island and northern Labrador, the land is shown in brown and the glaciers in white, giving a more realistic impression without sacrificing the accuracy of glacier information.

On each map, the Canadian National Topographic System grid has been superimposed to aid reference to source maps. The date and the scale of all source maps are listed on the reverse of the map. Where available, dates of air photographs used in preparation of the source maps are given.

All maps show the location of meteorological stations and snow courses and the glacier map of northern British Columbia and south-eastern Alaska and the glacier map of Yukon Territory and District of Mackenzie show the position of stream measurement stations. The sources of information pertaining to the snow courses, meteorological stations and stream measurement stations are indicated in the map legend.

As an example of the map series the glacier map of northern Baffin Island is enclosed with this issue of the *Journal of Glaciology*. Copies of the series may be obtained at 50 cents each from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa, Canada.

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REFERENCE

- Falconer, G., and others. 1966. A glacier map of southern British Columbia and Alberta, by G. Falconer, W. E. S. Henoch and G. M. Østrem. *Geographical Bulletin* (Ottawa), Vol. 8, No. 1, p. 108–12.



GLACIER MAP OF NORTHERN BAFFIN ISLAND (DISTRICT OF FRANKLIN)

1968

This map showing the distribution of glaciers in northern Baffin Island is one of a series compiled at a scale of 1:1,000,000 to show the distribution of glaciers throughout Canada. Demonstration of glacier features has been kept to a minimum, but only small glaciers and those by a detailed scale are shown. Glacier outlines have been referred from the best maps available in early 1967. These were topographic maps published by the Survey and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, Ontario, and the Survey and Mapping Branch, Department of Natural Resources, Ottawa, Ontario. To aid reference to source maps, the grid of the Canadian National Topographic System is superimposed.

This map shows the location of snow courses and selected meteorological stations. The sources of this information are:

- Canadian Department of Transport, Meteorological Branch, January 1968.
- Monthly Record, Meteorological Observations in Canada, January 1968.
- Snow Cover Data (1965-66).
- 200 ft. contour of the map and contour.
- Index of Glacier Maps 1:1,000,000.
- Key to map identification according to the Canadian National Topographic System.
- List of source maps indicating scale, date of publication and title or a photograph.

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SCALE 1:1,000,000

0 10 20 30 40 50 Miles