

PEYTO GLACIER MAP; 1 : 10'000

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The basic intent of the Peyto Glacier map was to provide a necessary framework for the work of the Glaciology Division in mass, energy and water balance studies. However, a secondary, but nonetheless important, aim was to cater to the perceived needs of other scientists, teachers and the general public. For this purpose the map was embellished through hatched bedrock portrayal and shaded relief to provide additional information between the contours and a three-dimensional effect.

The initial survey net around Peyto Glacier was designed for glaciological observations of movement and surface change. This net was extended to provide the necessary ground control for the 1966 aerial photography. Those stations whose heights are given to 0.1 m were occupied and fully observed whereas the others were intersected. The baselines were measured by subtense bar. Contours and salient glacier and bedrock features were plotted using a Wild A7 stereoplotter.

Certain modifications to existing techniques were made in the preparation of the map. The representation of bedrock and unconsolidated rock was scribed on negative red orange scribe coat rather than plate glass which resulted in a 50 % saving in time.

The map was drawn by J. Croizet and the details interpreted by W.E.S. Henoch who carefully nursed the project to completion.

REFERENCE

Sedgwick, J.K. and Henoch, W.E.S., 1975: Peyto Glacier, General Information. Glaciology Division, Water Resources Branch, Inland Waters Directorate, Department of the Environment, Ottawa, Ontario, 30 p. and 1 map.