

arrow) in the Burns Glacier ice below its confluence with Portage Glacier

nus of Portage Glacier would recede to the projected southeast shore of ice-filled valley is deeper than presently estimated, Portage Glacier may

inaccurate and the rate of retreat could change, which would alter the A detailed analysis of the glaciological data, possible causes of varia-

tions, and predictions for Portage Glacier are on sheet 2 of this atlas.

Portage Lake by the year 2020. This position of the shore area may be recede even farther than indicated by the year 2020.

time at which the glacier will reach the shore.

labeled in this photograph. Storms in the Gulf of Alaska cause strong

large snow cornices on ridges and dune patterns on the lake ice. (U.S.

easterly winds in the Portage Glacier area. These winds produce the

Geological Survey photograph 72M2-20, view to southeast.)

Iceberg drifting was impeded during the winter by lake ice. A pressure

ridge in the winter lake ice, lakeward of the concentrated berg area, was

caused by the glacier's winter motion. The areas of greatest crevassing

and wave ogives, areas with repeated large waves in the glacier surface

indicate that the annual centerline flow rate in this area of the glacier is this date. The sheared ice margin indicates that Portage Glacier is very

approximately 220 m/yr. An area of concentric crevasses (indicated by active. (U.S. Geological Survey photograph 72M4–91, view to southeast.)

☆ Interior-Geological Survey, Reston, VA.-1977-W77062

exposed on both Portage and Burns Glaciers indicate the recent average

equilibrium altitude. (U.S. Geological Survey photograph 72R6-58,