

EXPLANATION

APPROXIMATE MEAN DECLINATION, 1962

This map depicts areas where a potential exists for snow avalanches. The data presented have been compiled and generalized from known historical records, airphoto interpretation, and preliminary terrain analysis by the authors at a scale of 1:63,360 and at a scale of 1:9600 and 1:2400 by Daniels and others (1972). Known and suspected avalanche activity, climatic conditions, and regional snowpack characteristics (Hackett and Santeford, 1980) were correlated with mountainous terrain (pl. 1) to produce a map of snow avalanche potential for this quadrangle. The map is not a detailed analysis of any specific area, but depicts general regions that may be subject to rapid downslope movements of snow and associated rock vegetation and debris and that include snow avalanche paths (starting zones, tracks, and runout zones).

The classification of snow avalanche potential is provisional and generalized. It should not be used in place of detailed field investigation and analysis of specific areas by qualified professionals. The classification system is threefold and based on estimated frequencies and inferred sizes of snow avalanches (Perla and Martinelli, 1975):

HIGH TO MODERATE POTENTIAL—Areas where large snow avalanches may occur every 1-5 years.

MODERATE TO LOW POTENTIAL—Areas where avalanches may occur every 5-100 years; areas where avalanches occur in winters of unseasonably heavy snowfall; areas where landform changes, fire, or man-induced activities could increase snow avalanche activity.

LOW TO NIL POTENTIAL--Flat or low-lying areas with no known avalanche activity; may contain local areas or high avalanche danger.

REFERENCES

Daniels, Mann, Johnson, and Mendenhall, 1972, Geophysical hazards investigation for City and Borough of Juneau - A summary report: DMJM (consultants of Portland,

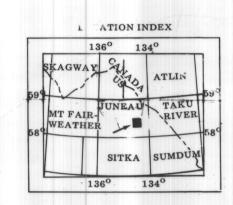
OR), 92 p.
Hackett, S.W. and Santeford, H.S., in press, Avalanche zoning in Alaska: Jour.
Glaciology, Proceedings of Snow in Motion Scientific Symposium, Ft. Collins,
August 10-17, 1979.

Perla, R.I., and Martinelli, M., Jr., 1975, Avalanche handbook: U.S. Dept. of Agriculture, Agriculture Handb. 489, 238 p.

-Base from U.S. Geological Survey 1974: Juneau B-2, 1:63,360 Quadrangle, Alaska

ROAD CLASSIFICATION
Light-duty

Unimproved dirt State Route



QUADRANGLE LOCATION

This is a preliminary publication of the Alaska Division of Geological and Geophysical Surveys and as such has not received final editing and review. The author will appreciate candid comments on the accuracy of the data, and welcome suggestions that will improve the report.

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## MAP OF PROVISIONAL SNOW AVALANCHE POTENTIAL, JUNEAU B-2 QUADRANGLE, ALASKA

COINTOUR INTERVAL 100 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929 DEPTH CURVES IN FEET-DATUM IS MEAN LOWER LOW WATER