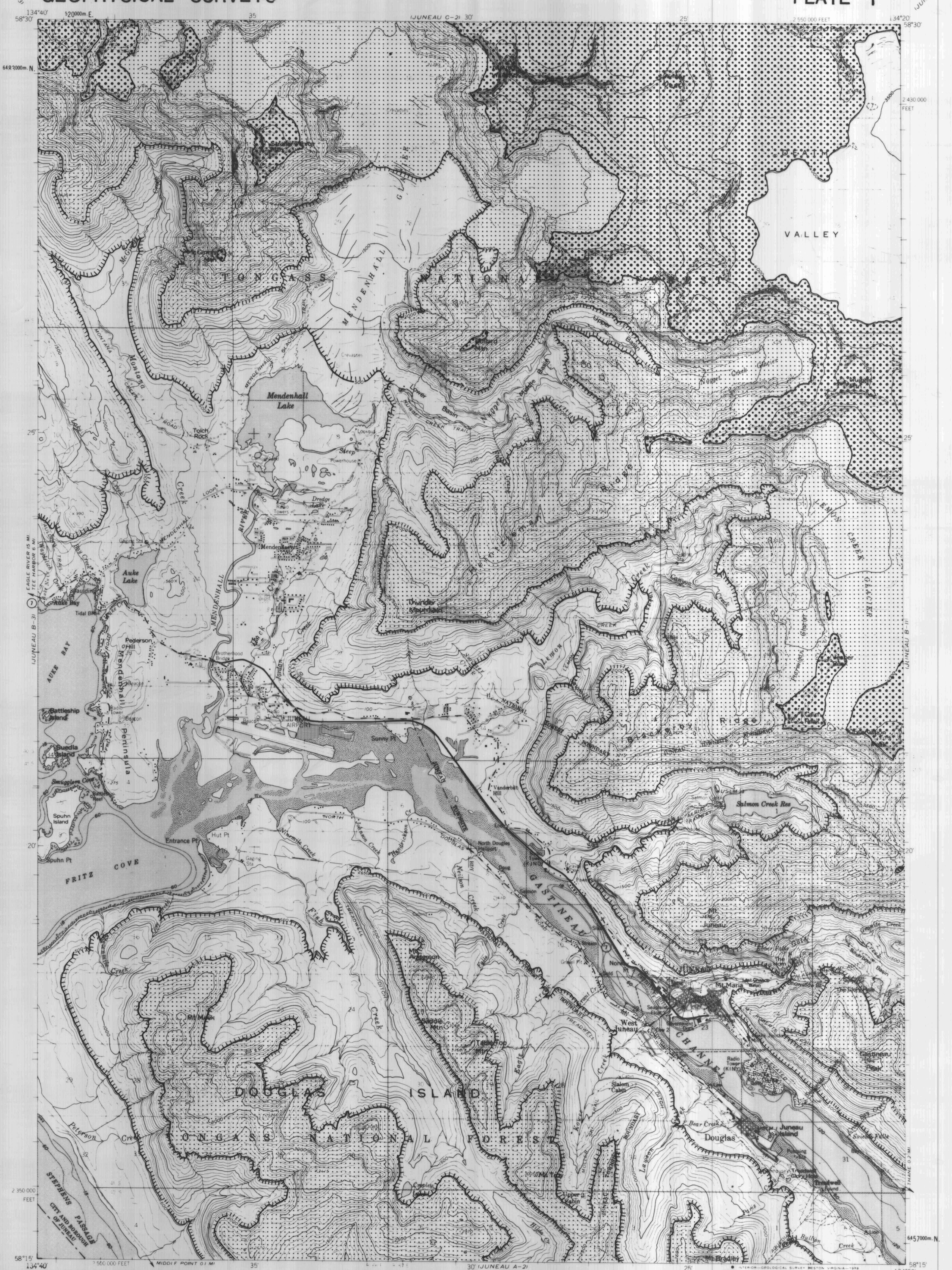
ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

ALASKA OPEN-FILE 132
PLATE 1



ELEVATION CLASSES

- 0'-500'
- 500'-2,000'
- 2,000'-4,000'
- 4,000'-6,000'

SCALE 1:63360

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 100 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET-DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 14 FEET

TRUE NORTH
29½°
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1962

ROAD CLASSIFICATION
Medium-duty
Light-duty
Unimproved dirt
State Route

ALASKA
QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY RESTON, VIRGINIA—1978

EXPLANATION

This map depicts elevation classes and intervals that are important in analyzing regional terrain, orographic configuration, and potential snow avalanche occurrences (pl. 2). Preliminary analyses of snowpack information, and climatological data within different elevation classes and known avalanche occurrences (Hackett and Santeford, 1980) indicate correlatable relationships between mountainous terrain and snow avalanche activity in south-central and southeastern Alaska. This map should be used in conjunction with readily available topographic and shaded relief maps in evaluating potential snow avalanche terrain through analysis of elevation intervals, freeze levels, slope angles and aspects, and terrain configuration.

This map is not intended to replace a detailed slope analysis, but can be used as a basic reference in identifying potential snow avalanche areas.

REFERENCES

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.

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

Map printed with funds provided by Office of Coastal Management, Alaska Div. of Policy Development and Planning.

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.

MAP OF MOUNTAINOUS TERRAIN, JUNEAU B-2 QUADRANGLE, ALASKA

by Gail Davidson & S.W. Hackett

1980