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Landslides in Alaska: a bibliography of the literature describing landslides and other forms of slope instability

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Introduction

Landslides are a major geologic hazard in many parts of Alaska. The Alaskan Government spent approximately 10 million dollars between 1973 and 1983 to repair roads damaged by landslides (Brabb, 1984). To understand landslide processes it is important to know the character and distribution of landslides and their topographic, geologic, and hydrologic settings. This bibliography contains over 450 references published from 1910 thru 1985 on landslides, river-bank bluff erosion, earth flows, debris flows, solifluction, slope stability, submarine landslides, snow and ice avalanches, and rock glaciers in Alaska and selected references relative to adjacent parts of Canada.

In addition to several bibliographies on landslides (Alger and Brabb, 1985; Coates, 1977; and Keefer and Tannaci, 1981); U.S. Geological Survey and Alaska Division of Geological and Geophysical Survey maps and publications located in the Branch of Alaskan Geology Technical Data Unit and U.S. Geological Survey Library, Menlo Park, were examined for landslide and slope stability information. All publications listed in, Reports and maps issued by the Alaska Division of Geological and Geophysical Surveys - Information Circular 11 (revised June, 1985) were also checked. The following journals were also checked: Canadian Journal of Earth Sciences (v. 1, 1964, - v. 22, 1985); Canadian Geotechnical Journal (v. 1, 1963, - v. 22, 1985); Arctic and Alpine Research (v. 1, 1969, - v. 17, 1985); and Quaternary Research (v. 1, 1970, - v. 22, 1985). Additional references could be made available by a careful search of the engineering literature.

Many report and map titles do not mention landslides or slope processes. In order to guide the reader to pertinent sections, applicable page or figure numbers are listed following some of the references. In addition, all map references are followed with map-unit descriptions for the units mapped, i.e., landslide deposits, solifluction deposits, rock glaciers.

Appendix A - provides an introduction to the Canadian literature, with special emphasis on areas along the United States-Canadian border. References are listed by applicable 1:250,000-scale quadrangles in Appendix B. Appendix C lists references related to selected topics: Alaska general; Offshore; Landslides caused by the 1958 and 1964 earthquakes; Southeast Alaska (mostly references related to timber harvesting); and slope-stability problems along the Trans-Alaskan Pipeline.

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Appendix B
References indexed by quadrangle
(page number follows reference)

WISEMAN (cont.)

VALDEZ

YAKUTAT

Appendix C
References by selected topic
(page number follows reference)

ALASKA GENERAL

ALASKA GENERAL (cont.)

OFFSHORE

TRANS-ALASKA PIPELINE