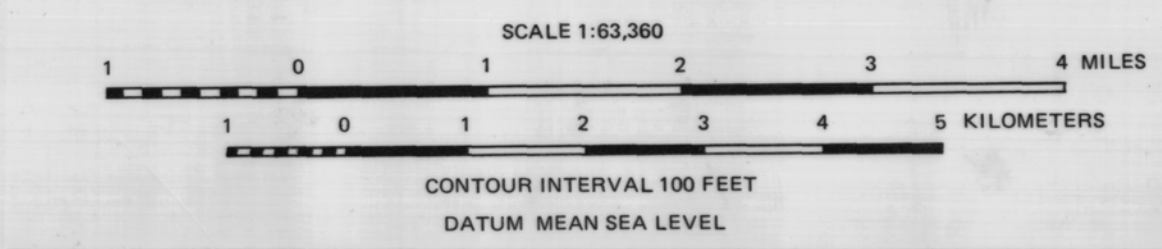
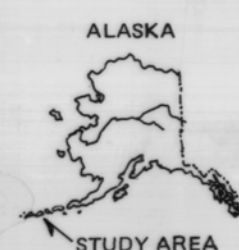


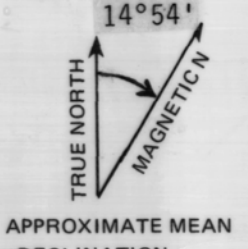
Base from 1958 U.S. Army (Corps of Engineers) 1:50,000 topographic map series which was copied from the 1941 U.S. Army (Corps of Engineers) 1:62,500 topographic series. The 1941 map series was based on 1937 aerial photography and on U.S.C. and G.S. horizontal and vertical control. The Makushin Volcano region was surveyed by DGGS in 1980 and 1982 by the use of altimeters and Brunton compasses.

Final map was done by M. Pritchard and J. Reeder.

This report is a preliminary publication of DGGS. The author is solely responsible for its content and will appreciate candid comments on the accuracy of the data as well as suggestions to improve the report.



HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM
 TRANSVERSE MERCATOR PROJECTION
 GRID REPRESENTS 1000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 3.
 THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED.



For Dutch Harbor vicinity, the approximate 1955 mean declination is 15°02' East. For the east flank of Makushin Volcano, the approximate 1955 mean declination is 14°46' East.

EXPLANATION

Map of Holocene or slightly older bedrock landslides of the northern part of Unalaska Island, Alaska. These landslides are indicated on this map by the closely spaced horizontal dash pattern. These landslides should be considered unstable, especially during large earthquakes.

This map was adopted from an unpublished D.G.G.S. map entitled "Inconsolidated deposits and geologically recent volcanic rocks and faults of the Makushin Volcano and Dutch Harbor region, Unalaska Island, Alaska" by Reeder, J.W., Swanson, K.E., and Larsen, M.J., and was adopted from an unpublished D.G.G.S. map entitled "Geologic bedrock observations map of the Makushin Volcano and Dutch Harbor region, Unalaska Island, Alaska" by Reeder, J.W., Swanson, K.E., Larsen, M.J., and Edge, D.B.

BEDROCK LANDSLIDES MAP OF THE NORTHERN PART OF UNALASKA ISLAND, ALASKA

by
 John W. Reeder

1986