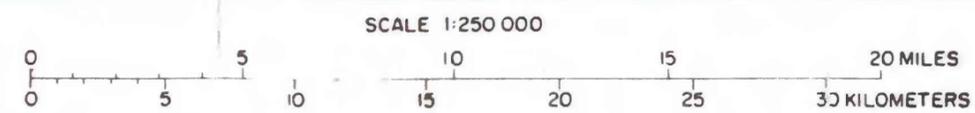


EXPLANATION

- Volcanic rocks, mostly basalt flows; Quaternary age (Brew and others, 1969)
- Intrusive igneous rocks (tonalite and some granodiorite); probably Tertiary (Eocene) and partly middle Cretaceous in age (Loney and others, 1964, 1967)
- All other land areas: (1) northeast of Olga Strait-Silver Bay fault segment, chiefly metamorphic rocks (phyllite, greenstone, schistose rocks, and amphibolite); (2) southwest of fault segment, chiefly sedimentary rocks (mostly graywacke, some argillite); near intrusives, rocks locally metamorphosed; near fault segment, some rocks similar in type to those northeast of fault segment. Mesozoic and partly Permian(?) in age. (Loney and others, 1964)
- Fault, dashed where inferred, dotted where concealed (modified from Loney and others, 1963, 1964; Page and Gauthrop, 1973, and written commun., 1973)
- Other lineament (Twenhofel and Sainsbury, 1958; airphoto and map interpretation by author)
- Subbottom feature, possibly a concealed fault cutting bedrock, as interpreted from an acoustical profile shown by Page (1973)
- Belt that includes all major and some minor volcanic vents (Modified from Loney and others, 1964, and Brew and others, 1969; interpretation by author)
- Minor vents and features inferred to be vents

Base from U.S. Geological Survey topographic maps Sitka, Alaska, 1951, and Port Alexander, Alaska, 1951; and U.S. National Ocean Survey Nautical Chart 8252, 1973.



Land contours: 1,000 and 3,000 ft (305, 914 m); datum, mean sea level.
Water depth contours: 300 and 1,000 ft (91.4, 305 m) and each 1,000 ft (305 m) greater; datum, mean lower low water

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This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

FIGURE 4.--MAP SHOWING FAULTS AND OTHER LINEAMENTS, BEDROCK TYPES, AND OFFSHORE WATER DEPTHS, SITKA AREA, ALASKA, AND PART OF CONTINENTAL MARGIN