

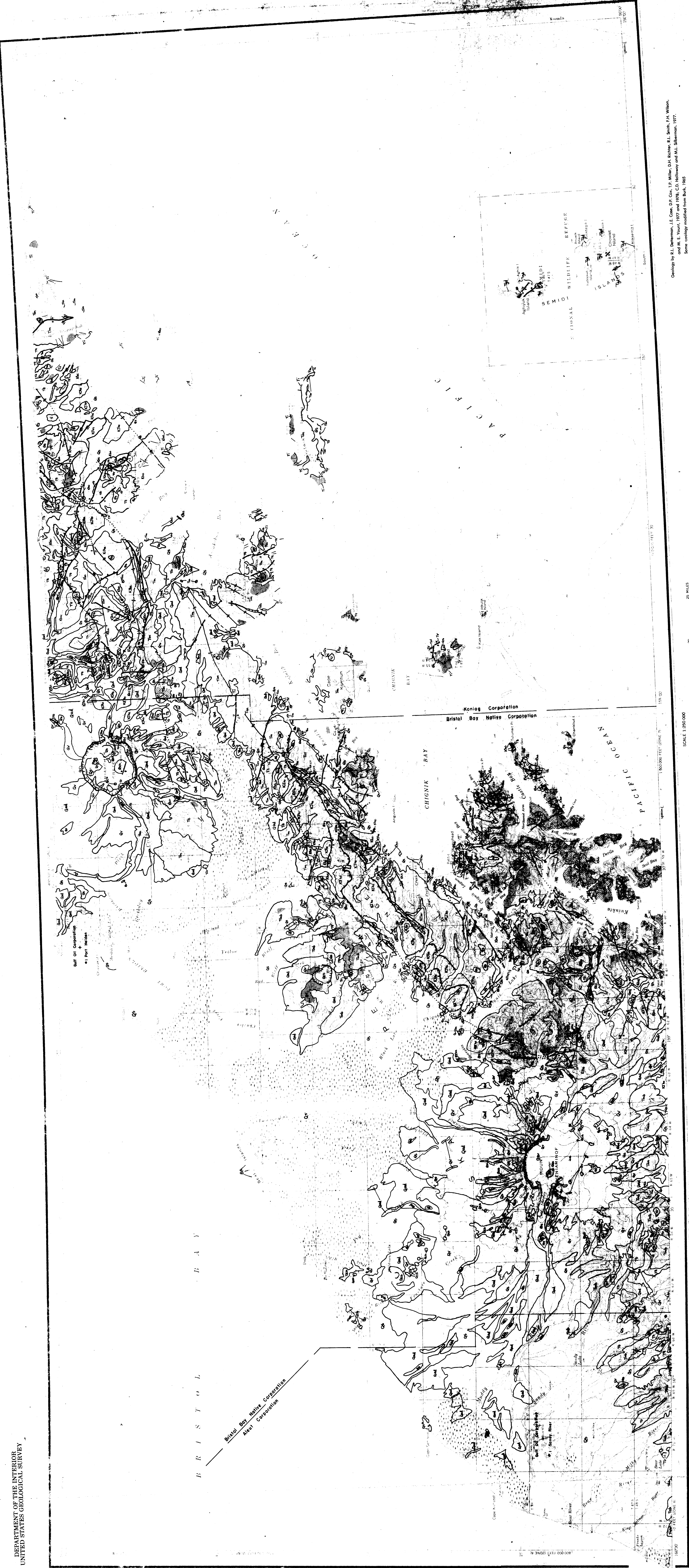
200
R370
88-543



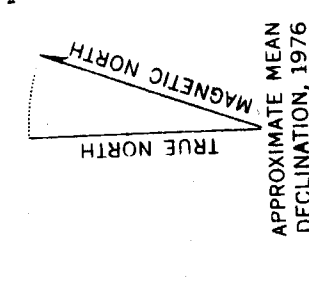
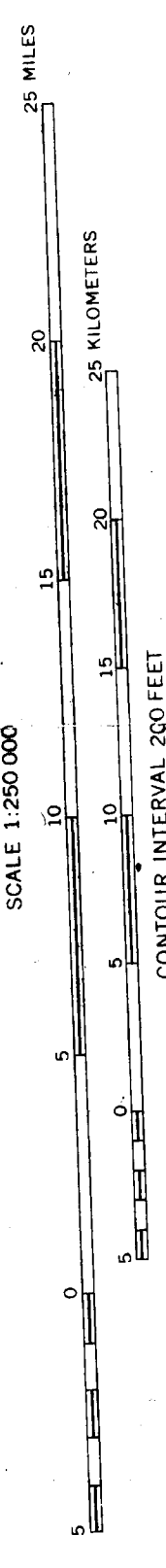
OPEN FILE REPORT 80-543
 GEOLOGIC MAP OF CHIGNIK AND SUTWIK ISLAND QUADRANGLES, ALASKA
 GEOLOGICAL SURVEY OF THE UNITED STATES
 DETERMAN AND OTHERS—GENERALIZED GEOLOGY

PLATE 1

DEPARTMENT OF THE INTERIOR
 UNITED STATES GEOLOGICAL SURVEY



Geology by R.L. Determan, J.E. Cox, D.P. Cox, T.P. Miller, D.H. Bohner, R.L. Brink, J.H. Wilson, and A.E. Tracy, 1977 and 1978. Cross-sections by R.L. Determan, 1977.
 Some outlines modified from Bark, 1952.



Based from U.S. Geological Survey, 1:250,000, Chignik and Sutwik Island, 1963.

REFERENCES CITED
 Bark, C.A., 1952, Geology of the Alaska Peninsula—Island arc and continental margin: U.S. Geological Survey Bulletin 822, 110 p.
 Bark, C.A., 1955, Geology of the Alaska Peninsula—Island arc and continental margin: U.S. Geological Survey Bulletin 822, 110 p.
 Bark, C.A., 1957, Geology of the Alaska Peninsula—Island arc and continental margin: U.S. Geological Survey Bulletin 822, 110 p.
 Bark, C.A., 1959, Geology of the Alaska Peninsula—Island arc and continental margin: U.S. Geological Survey Bulletin 822, 110 p.

SYMBOLS
 Geologic map symbols
 Contact—stratigraphic, where concordant
 Fault—thrust, normal, and strike-slip
 Unconformity—disconformity and angular
 Tectonic center
 Volcanic vent or other cone
 Diatremes
 Dikes and sills
 Exploratory drift hole
 Mine spring
 Native Corporation boundary

SYMBOLS FOR STRATIGRAPHIC UNITS	
	DEVONIAN AND PERMIAN
	CARBONIFEROUS
	TRIASSIC
	JURASSIC
	CRETACEOUS
	TERTIARY
	QUATERNARY

- DESCRIPTIONS OF MAP UNITS
- DEVONIAN AND PERMIAN**
 Includes Devonian and Permian rocks (M1-M5). M1-M3 are Devonian; M4-M5 are Permian. Lithology includes sandstone, siltstone, shale, limestone, and coal.
- CARBONIFEROUS**
 Carboniferous rocks (C1-C4). C1-C2 are Carboniferous; C3-C4 are Permian. Lithology includes sandstone, siltstone, shale, and coal.
- TRIASSIC**
 Triassic rocks (T1-T2). T1 is Triassic; T2 is Permian. Lithology includes sandstone, siltstone, and shale.
- JURASSIC**
 Jurassic rocks (J1-J2). J1 is Jurassic; J2 is Cretaceous. Lithology includes sandstone, siltstone, and shale.
- CRETACEOUS**
 Cretaceous rocks (K1-K3). K1-K2 are Cretaceous; K3 is Paleogene. Lithology includes sandstone, siltstone, shale, and lignite.
- TERTIARY**
 Tertiary rocks (T1-T4). T1-T2 are Tertiary; T3-T4 are Quaternary. Lithology includes sandstone, siltstone, shale, and volcanic rocks.
- QUATERNARY**
 Quaternary rocks (Q1-Q2). Q1 is Alluvium; Q2 is Recent. Lithology includes sand, silt, and clay.

APPROXIMATE MEAN DECLINATION, 1976

This map is one of a series, bearing the number 80-543, along with background and explanatory notes. The series is published as U.S. Geological Survey Circular 734, available free of charge by mail from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20540. Price \$2.00. Some other titles in this series are listed on the inside cover.

GENERALIZED GEOLOGIC MAP OF CHIGNIK AND SUTWIK ISLAND QUADRANGLES, ALASKA

BY
 ROBERT L. DETERMAN, THOMAS PAWLER, M. ELIZABETH YOUNG, FREDRIC H. WILSON

1979

DOCUMENTS COLLECTION
 University of Alaska Fairbanks
 Fairbanks Library