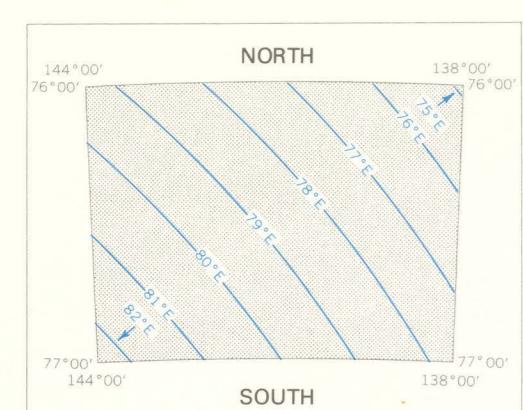


Base from U.S. Geological Survey, 1973

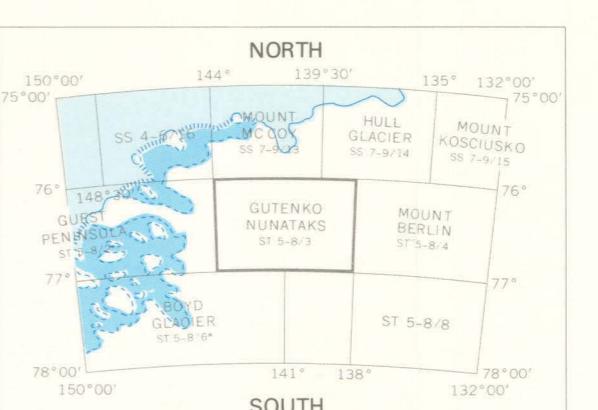
SCALE 1:250,000
20 Statute Miles
20 Kilometers
15 Nautical Miles

Lambert Conformal Conic Projection—Standard Parallels 76°40' and 79°20'
CONTOUR INTERVAL 200 METERS—DAMUM IS MEAN SEA LEVEL



RECONNAISSANCE GEOLOGIC MAP OF THE GUTENKO NUNATAKS QUADRANGLE, MARIE BYRD LAND, ANTARCTICA

By
F. Alton Wade, Carl A. Cathey, and Jerry B. Oldham
1978



Sheet number system based on
International Map of the World
INDEX TO ADJOINING SHEETS

CORRELATION OF MAP UNITS

OTv	QUATERNARY AND TERTIARY
Unconformity	
Kbc	CRETACEOUS
Unconformity	
MDF	MISSIPPINIAN AND DEVONIAN
Unconformity	
RpCs	LOWER PALEOZOIC AND UPPER PRECAMBRIAN
RpCf	

DESCRIPTION OF MAP UNITS

- OTv OLIVINE BASALT FLOWS, TUFF AND OTHER PYROCLASTIC DEPOSITS
- Kbc BYRD COAST GRANITE—Biotite granite, leucogranite, and alaskite, equigranular to porphyritic, marginal and local foliation, magnetic origin. Includes associated pegmatites and aplites, and mafic dikes. Intrudes Swanson Formation and Fosdick metamorphic rocks. Radiometric ages mainly 100±10 m.y.
- MDF FORD GRANODIORITE—Biotite-hornblende granodiorite. Composition of plagioclase ranges over wide limits, probably two generations: oligoclase-andesine and younger albite. Includes associated pegmatite, aplite and rhyolite dikes, and mafic dikes. Intrudes Swanson Formation. Radiometric ages mainly 345±11 m.y.
- RpCs SWANSON FORMATION—Sequence of metamorphosed sedimentary rocks with total thickness estimated to be in excess of 4000 m. Degree of metamorphism seldom exceeds greenschist facies. Metagraywacke dominates sequence with lesser amounts of biotite schist, phyllite, and slate. Not subdivided because of insufficient field data. Late Precambrian age based upon achiarch assemblages (Ilchenko, 1972)
- RpCf FOSDICK METAMORPHIC ROCKS—Progressively metamorphosed sedimentary rocks range from biotite schist to migmatitic granite; restricted to Fosdick Mountains. Relationship to Swanson Formation not established; probably age equivalent of Swanson but in a zone of higher regional metamorphism

Contact

Strike and dip of beds

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Geology mapped in 1940 by L. A. Warner and C. F. Passel; in 1966-1967 by F. A. Wade, V. L. Yeats, and L. V. Klimov assisted by J. R. Wilbanks and J. Suggs