



### EXPLANATION

GEOLOGY GENERALIZED FROM HOARE AND COONRAD (1978)

#### CORRELATION OF MAP UNITS

SURFICIAL DEPOSITS

QUATERNARY

VOLCANIC, SEDIMENTARY, AND METAMORPHIC ROCKS

INTRUSIVE ROCKS

PALEOZOIC

MEZOEZOIC

JURASSIC AND JURASSIC

CRETACEOUS

TRIASSIC AND TRIASSIC

PALEOZOIC

PALEOZOIC

#### DESCRIPTION OF MAP UNITS

UNCONSOLIDATED SURFICIAL DEPOSITS

SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS

TRUSIVE ROCKS

PALEOZOIC

MEZOEZOIC

JURASSIC AND JURASSIC

CRETACEOUS

TRIASSIC AND TRIASSIC

PALEOZOIC

PALEOZOIC

#### GEOLOGIC SYMBOLS

Contact, zone, approximately located, stratigraphic, and inferred. Most contacts between bedded rock units are stratigraphic.

Fault or fault zone. Dashed where approximately located, inferred, or concealed.

Thrust fault. Dashed where approximately located, inferred, or concealed. Same as on upper plate beneath.

#### AEROMAGNETIC INTERPRETATION SYMBOLS

Fault inferred from aeromagnetic data; dashed where approximately located.

Thrust fault inferred from aeromagnetic data.

Boundary between magnetic and less magnetic rocks, dashed where approximately located. Either crops out or is near surface.

Covered boundary between magnetic and less magnetic rocks. Location approximate. May be at depths in excess of 1 km.

S<sub>2</sub> Magnetic anomaly caused by a concealed source. Subscript '2' is a label for discussion purposes.

R<sub>C</sub> Magnetic anomaly caused by rocks with reverse remanent magnetization. Most of these anomalies are associated with granitic plutons. Subscript 'C' if rocks concealed.

G<sub>Gc</sub> Magnetic anomaly believed to be caused by a granitic pluton. Subscript 'C' if pluton is concealed.

G<sub>a</sub> G<sub>a</sub>c Magnetic anomaly believed to be caused by gabbroic rocks; subscript 'C' if rocks concealed.

MU<sub>MC</sub> Magnetic anomaly believed to be caused by an assemblage of mafic and ultramafic rocks; subscript 'C' if rocks concealed. Many of these assemblages are probably ophiolites.

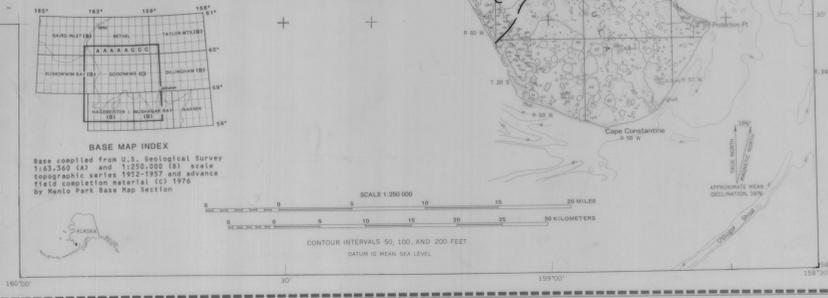
U Magnetic anomaly believed to be caused by ultramafic rocks.

V<sub>Vc</sub> V<sub>Vc</sub> Magnetic anomaly believed to be caused by volcanic rocks; subscript 'C' if rocks concealed. Subscript 'V' if anomaly caused by reverse remanent magnetization.

**AEROMAGNETIC INTERPRETATION  
OF THE  
GOODNEWS AND HAGEMEISTER ISLAND QUADRANGLES REGION, SOUTHWESTERN ALASKA**

BY  
**ANDREW GRISCOM**

1978



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