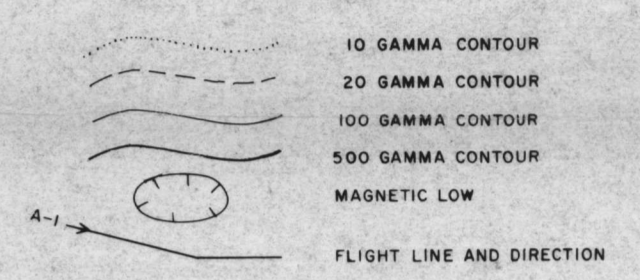


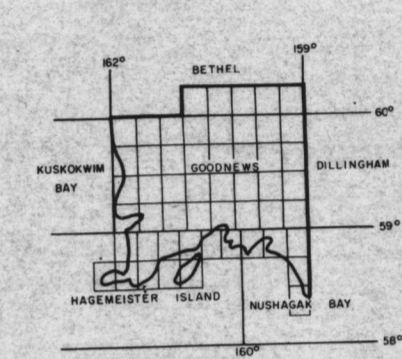


EXPLANATION



AREA OF GOODNEWS SURVEY ORIGINALLY COMPILED ON 4x ENLARGEMENTS OF SCALE 1:250,000 ALASKA RECONNAISSANCE SERIES MAPS (BETHEL, 1950; GOODNEWS, 1951). DATA LOCATION MAY BE LESS ACCURATE IN THIS AREA.

GOODNEWS AREA AEROMAGNETIC SURVEY



AEROMAGNETIC SURVEY FLOWN AND COMPILED IN 1971 BY LOCKWOOD, KESSLER, AND BARTLETT, INC., PASADENA, CALIFORNIA. SURVEY FLOWN AT A FLIGHT- LINE SPACING OF THREE-QUARTERS OF A MILE AND FLIGHT ALTITUDE NOMINALLY 1,000 FEET ABOVE GROUND.

THIS RESIDUAL MAGNETIC MAP WAS PREPARED BY SUBTRACTING FROM THE MEASURED FIELD THE MAGNETIC INTENSITY VALUES OF THE INTERNATIONAL GEOPHYSIC REFERENCE FIELD-1965 (I.G.R.F.) (FABIANO AND PEDDIE, 1969) INTERPOLATED TO THE SOUTHWEST CORNER OF EACH SURVEYED MILE-TWO-INCH QUADRANGLE. THE I.G.R.F. VALUES RANGE FROM A LOW OF 53,095 GAMMAS IN THE HAGEMEISTER ISLAND C-7 QUADRANGLE TO A HIGH OF 54,072 GAMMAS IN THE BETHEL A-1 QUADRANGLE (ALASKA DIV. GEOL. GEOPHYS. SURVEYS, 1972, 1973A,C). OVERALL POSITIVE CONTOURS HAVE BEEN OBTAINED BY ARBITRARILY ADDING 5,000 GAMMAS TO THE RESIDUAL VALUES RESULTING FROM REMOVAL OF THE I.G.R.F. FIELD INCLINATION IN THIS REGION IS APPROXIMATELY 71 DEGREES.

AEROMAGNETIC CONTOUR MAPS AT 1:63,360 SCALE (MILE-TO-TWO-INCH) OF THE ENTIRE GOODNEWS SURVEY AREA (53 MAPS) WERE PUBLISHED BY THE ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS (DGS) IN 1972. THE FOUR AEROMAGNETIC CONTOUR MAPS AT 1:250,000 SCALE ASSEMBLED IN THIS REPORT WERE RELEASED AS DGS OPEN-FILE REPORTS IN 1973 (ALASKA DIV. GEOL. GEOPHYS. SURVEYS, 1973A,B,C,D).

THE ORIGINAL GEOPHYSICAL SURVEY DATA FROM WHICH THESE MAPS WERE COMPILED ARE AVAILABLE FOR EXAMINATION THROUGH OFFICES OF THE DGS.

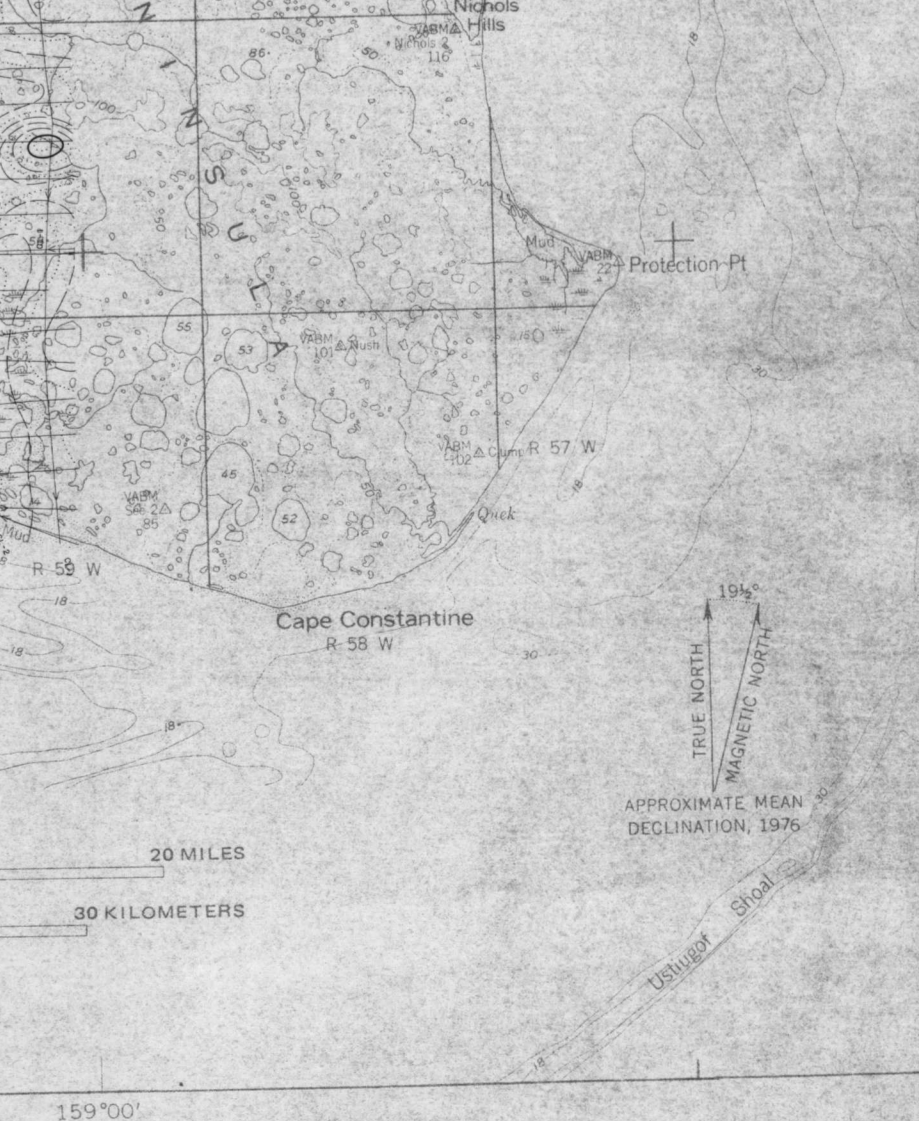
REFERENCES CITED

- ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS, 1972, AEROMAGNETIC SURVEY, GOODNEWS AREA, ALASKA DIV. GEOL. GEOPHYS. SURVEYS, AEROMAGNETIC SERIES, 53 QUADRANGLE MAPS, SCALE 1:63,360.
- 1973A, AEROMAGNETIC MAPS, SOUTHEASTERN PART OF BETHEL QUADRANGLE, ALASKA; ALASKA DIV. GEOL. GEOPHYS. SURVEYS, OPEN-FILE MAP AOF-14, 1 SHEET, SCALE 1:250,000.
- 1973B, AEROMAGNETIC MAP, GOODNEWS QUADRANGLE, ALASKA; ALASKA DIV. GEOL. GEOPHYS. SURVEYS, OPEN-FILE MAP AOF-15, 1 SHEET, SCALE 1:250,000.
- 1973C, AEROMAGNETIC MAP, NORTHEASTERN PART OF HAGEMEISTER ISLAND QUADRANGLE, ALASKA; ALASKA DIV. GEOL. GEOPHYS. SURVEYS, OPEN-FILE MAP AOF-16, 1 SHEET, SCALE 1:250,000.
- 1973D, AEROMAGNETIC MAP, NORTHWESTERN PART OF NUSHAGAK BAY QUADRANGLE, ALASKA; ALASKA DIV. GEOL. GEOPHYS. SURVEYS, OPEN-FILE MAP AOF-17, 1 SHEET, SCALE 1:250,000.
- FABIANO, E. B., AND PEDDIE, N. W., 1969, GRID VALUES OF TOTAL MAGNETIC INTENSITY, 1957-1965. U.S. ESSA TECH. REPT. 38, 55 P.

BACKGROUND INFORMATION RELATING TO THIS REPORT IS PUBLISHED AS U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 78-9 (AVAILABLE FROM THE SAME SOURCE AS THIS MAP).

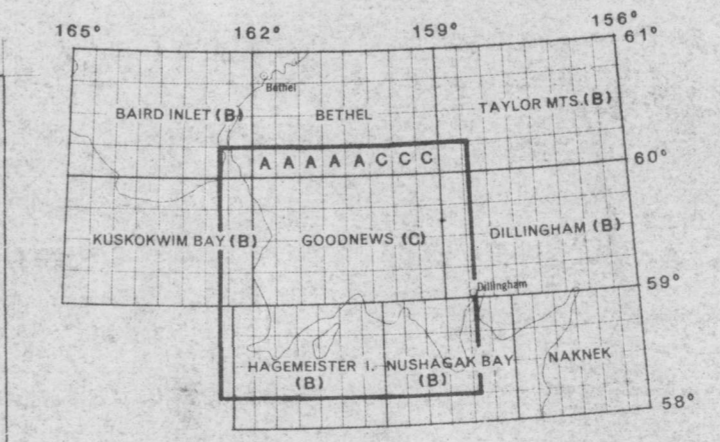
This report is preliminary and has not been subjected to the review and approval of the Geological Survey standards and nomenclature.

NUSHAGAK BAY



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

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS



BASE MAP INDEX
Base compiled from U.S. Geological Survey 1:250,000 (43) and 1:250,000 (8) scale topographic series 1952-1957 and advance field connection material (C) 1974 by Neno Park Base Map Section

