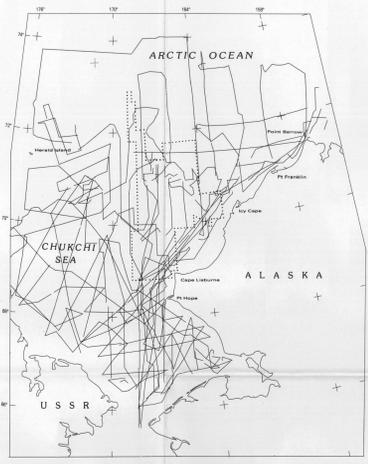


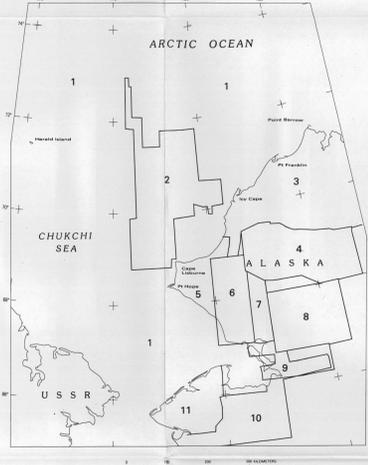


EXPLANATION
--- MAGNETIC CONTOURS—Showing residual anomalies of the Earth's magnetic field in gamma, relative to the International Geomagnetic Reference Field. Solid where uncertainty is ± 25 gamma, dashed where uncertainty is ± 50 gamma. Contour interval variable.
--- DEPTH CONTOUR
○ LOCALIZED DEPRESSION
○ LOCALIZED HIGH



EXPLANATION
--- MAGNETIC PROFILES
--- BOUNDARY OF MAGNETIC ANOMALY MAP OF BASSINGER (1968)

LOCATION MAP SHOWING PRINCIPAL MAGNETIC PROFILES USED TO COMPILE THE MAGNETIC ANOMALY MAP



- DATA SOURCES**
1. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 2. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 3. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 4. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 5. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 6. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 7. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 8. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 9. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 10. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.
 11. Data (1971): Shipborne magnetic data collected in the Chukchi Sea and adjacent Northwest Alaska by the U.S. Coast Guard cutter *Spargan* (WMEC-911) during the 1971-72 season. Contour interval 10 gamma.

EXPLANATION
--- MAGNETIC CONTOURS—Showing residual anomalies of the Earth's magnetic field in gamma, relative to the International Geomagnetic Reference Field. Solid where uncertainty is ± 25 gamma, dashed where uncertainty is ± 50 gamma. Contour interval variable.
--- DEPTH CONTOUR
○ LOCALIZED DEPRESSION
○ LOCALIZED HIGH

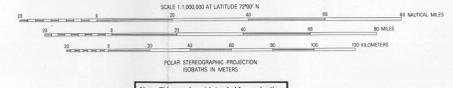
EXPLANATION
--- MAGNETIC PROFILES
--- BOUNDARY OF MAGNETIC ANOMALY MAP OF BASSINGER (1968)

LOCATION MAP SHOWING PRINCIPAL MAGNETIC PROFILES USED TO COMPILE THE MAGNETIC ANOMALY MAP

INDEX MAP SHOWING LOCATION OF DATA SOURCES

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REFERENCES
Bassinger, R.G. 1968. Marine magnetic studies in the north and Chukchi Seas. *Journal of Geophysical Research*, v. 73, no. 2, p. 686-687.
Calk, John, Rappaport, B.D., McHendrie, A.G., and Dent, H.C. 1973. Magnetic and gravity profiles. P. 2 of Geologic, magnetic, and gravity profiles—Chukchi Sea and adjacent Arctic Ocean. 1972. U.S. Geological Survey Open File Report 73-28.
Fahnestock, G.L., and Pridmore, N.W. 1969. Grid values of total magnetic intensity. IGRF—1965. Environmental Science Service Administration Technical Report 64-38. 50 p.
Grant, Arthur, Hanna, W.F., and Williams, C.C. 1970. Chukchi Sea seismic reflection and magnetic data. U.S. Geological Survey Open File Report 70-139. 1 sheet magnetic profile, 25 sheets seismic profiles.
Hanna, W.F., and Williams, C.C. 1971. Chukchi Sea seismic reflection profiles and magnetic data, 1971. Between northern Alaska and Herald Island. U.S. Geological Survey Open File Report 71-135. 32 sheets seismic profile, 2 sheets magnetic profile, 2 location maps and index map, 1969-1971.
Grenberg, Jonathan, Hart, P.F., and Coates, Arthur. 1981. Bathymetry map of the continental shelf, slope, and rise of the Beaufort Sea north of Alaska. U.S. Geological Survey Miscellaneous Investigations Series Map I-1182-A, scale 1:500,000.
Hanna, W.F., Rappaport, B.D., McHendrie, A.G., and Silva, R.F. 1974. Bathymetric magnetic anomaly and slope between Herald Strait and Barrow, Alaska, and Melville Bay, Canada. U.S. Geological Survey Open File Report 74-4, scale 1:500,000.
Hanna, W.F., Rappaport, B.D., and Smith, Martin. 1965. Bathymetric map of the Chukchi Sea. U.S. Geological Survey Miscellaneous Investigations Series Map I-1182-B, scale 1:500,000.
Laska, B.R., and Baranogh, D.R. 1971. Grid values for the IGRF 1965. International Association of Geomagnetism and Aeronomy Bulletin No. 29. 149 p.
Sain, K.C. 1971. Gravity and magnetic data collected in the northern Pacific Ocean and the Bering Sea. Bulletin of Institute of Oceanography Data Series BI-D-77-1. Canadian Department of Energy, Mines, and Resources, Marine Science Branch, Dartmouth, Nova Scotia, September 1971.
Shih, K.C., MacInnes, J.B., and Johnson, B.L. 1972a. Gravity and magnetic data collected in the northern Pacific and Bering Sea. C.S.I. Bulletin 1970. Bedford Institute of Oceanography Data Series BI-D-72-13. Canadian Department of Energy, Mines, and Resources, Dartmouth, Nova Scotia, September 1972.
Shih, K.C., Johnson, B.L., and Srinivasan, S.P. 1972b. Bathymetric and magnetic data collected in the northern Pacific and Bering Sea. C.S.I. Bulletin 1970. Bedford Institute of Oceanography Data Series BI-D-72-13. Canadian Department of Energy, Mines, and Resources, Dartmouth, Nova Scotia, September 1972.



RECONNAISSANCE MAGNETIC ANOMALY MAP OF THE CHUKCHI SEA AND ADJACENT NORTHWEST ALASKA

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