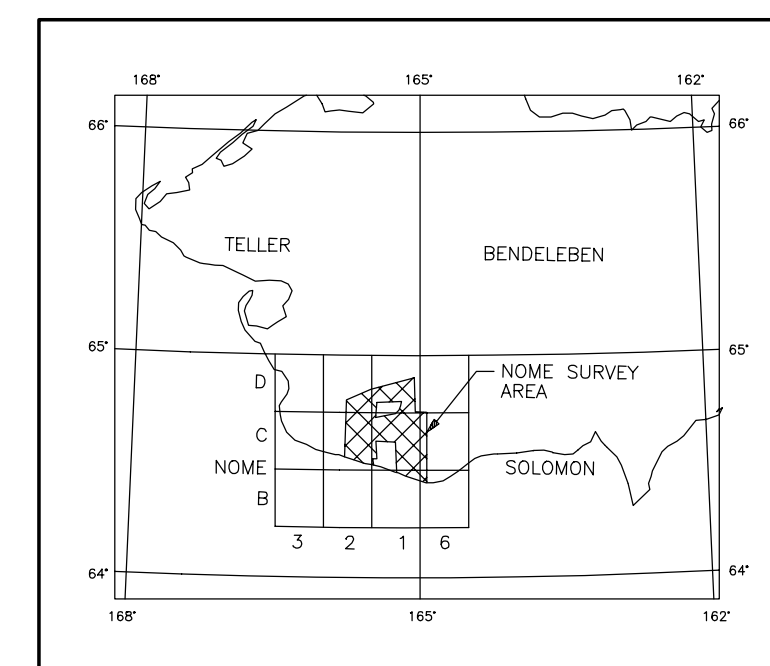


LOCATION INDEX



**TOTAL MAGNETIC FIELD  
OF THE NOME MINING DISTRICT,  
SEWARD PENINSULA, ALASKA**

**PARTS OF NOME AND SOLOMON QUADRANGLES**

TOTAL MAGNETIC FIELD

The magnetic total field contours were produced using digitally recorded data from a Scintrex cesium CS2 magnetometer, with a sampling interval of 0.1 seconds. The magnetic data were (1) corrected for diurnal variations by subtraction of the digitally recorded base station magnetic data, (2) leveled to the tie line data, and (3) interpolated onto a regular 100 m grid using a modified Akima (1970) technique. The regional variation (or IGRF gradient, 1985, updated to August, 1993) was removed from the leveled magnetic data.

Akima, H., 1970, A new method of interpolation and smooth curve fitting based on local procedures: *Journal of the Association of Computing Machinery*, v. 17, no. 4, p. 589-602.

## SURVEY HISTORY

The map has been compiled and drawn under contract with the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys, and Stevens Exploration Management Corp. The map was produced by Fugro Airborne Surveys and Interpretation, Ltd. The data were collected by DGS in 1994. Airborne geophysical data for area 3 were acquired and processed in 1993 under contract between DGS and WGM, Mining and Geological Services Inc. The data for area 4 were collected and provided by Bering Straits Native Corporation. The subcontractor acquiring and processing the data was DIGHEM, a division of COG Canada Ltd. Other processing was done by the Department of Natural Resources, Division of Geological & Geophysical Surveys, 3354 College Road, Fairbanks, Alaska, 99709-3707.