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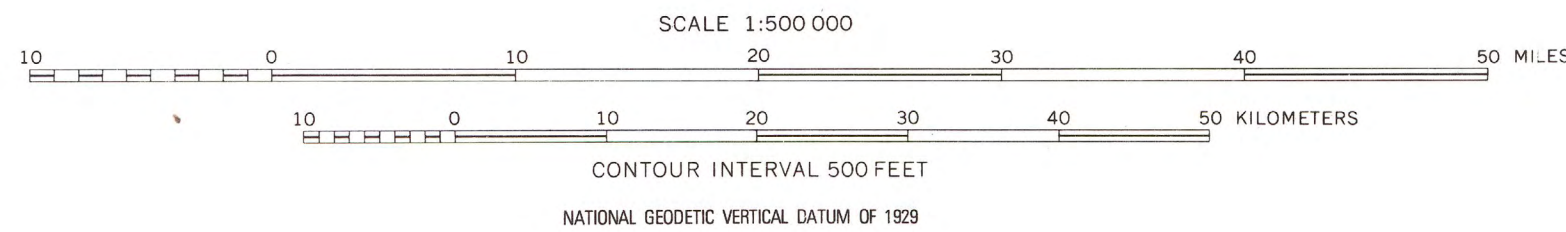
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COMPLETE BOUGUER GRAVITY ANOMALY MAP OF IDAHO

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1985



DISCUSSION

This map was compiled by the U.S. Geological Survey (USGS) using data from more than 24,000 gravity stations. Data were obtained primarily from the USGS as well as the Bureau of Reclamation, Department of the Interior, and the Idaho Geological Survey. The data were reduced to the Bouguer anomaly using the 1967 gravity formula (International Association of Geodesy, 1967) at a reduction density of 2.67 g/cm<sup>3</sup>. Standard USGS reduction equations and related expansion are explained in Cordell and others (1982). Terrain corrections were made radially from each station to a distance of 167 km using the method of Ploeff (1977). The map was prepared on a Lambert projection using a central meridian of 113 degrees and a base latitude of 41 degrees. The data were gridded at a 2.5 km spacing using a computer program by Webring (1981) based on minimum curvature (Kratz, 1974). The gridded data were contoured at a 5 milligal interval using a program by Gordon and Webring (1982). Final corrections in the computer contouring were made by hand. The contour map originally extended beyond the state boundary to ensure accuracy at the map edges. Patricia Hill (USGS, Denver) compiled the references, and Allen Dupler (USGS, Denver) drafted corrections on the final map.

EXPLANATION

- Gravity station
- Gravity contours—Numbers indicate closed gravity lows. Contour interval 5 milligals