

EXPLANATION

GRAVITY STATION

CONTOUR INTERVAL 5 MILLIGALS. HATCHED CONTOURS INDICATE AREAS OF LOW GRAVITY.

Contours are based on Bouguer anomaly values calculated with a 2.67 g per cm³ density factor and referred to base station 30 29 in Salt Lake City, Utah (Behrendt, J. C. and Swilard, G. P., 1961, An evaluation of the gravity control network in North America, Geophysics, v. 26, no. 1, p. 57-76). Terrain corrections have been applied to most of the data for high surface relief areas. Different techniques and standards were used in computing the terrain corrections; however, inconsistencies in computing the terrain corrections do not seriously affect the 5 mgal contours of this map.

This map was compiled from the following sources:

Raiden, R. L., Jr., and Hill, D. L., 1960, Gravity survey in part of the Snake River Plain, Idaho, progress report, U.S. Geol. Survey open-file report, 2 p., 3 figs.

Blank, H. S., and Gattings, W. S., 1974, Complete Bouguer gravity map Yellowstone-Island Park region, U.S. Geol. Survey open-file report, 1 p., 1 fig.

Bonini, S. E., 1963, Gravity anomalies in Idaho, Idaho Div. Mines Geol. Pamph. 132.

Hill, D. L., and Jacobson, J. J., 1961, Gravity survey in the western Snake River Plain, Idaho—progress report, U.S. Geol. Survey open-file report, 20 p., 4 figs., 2 pls.

Kinoshita, M. T., 1962, A gravity survey of part of the Lemhi Valley district, Idaho, U.S. Geol. Survey open-file report, 2 p., 1 fig.

Kinoshita, M. T., Davis, W. T., and Peterson, D. L., 1969, Principal facts for gravity stations in Lemhi and Birch Creek Valleys, Lemhi County, Idaho, U.S. Geol. Survey open-file report, 8 p., 8 figs.

LaFehr, T. W., 1962, Gravity survey in the eastern Snake River Plain, Idaho—a progress report, U.S. Geol. Survey open-file report, 16 p., 8 figs.

Mabe, D. R., and Ortel, S. S., 1970, Gravity and magnetic anomalies in the Soda Springs region, southeastern Idaho, U.S. Geol. Survey Prof. Paper 666d, 15 p.

Peterson, D. L., 1973, Bouguer gravity map of parts of Cassia and Owyhee Counties, Idaho and Box Elder, Davis, and Mohr Counties, Utah, U.S. Geol. Survey open-file report.

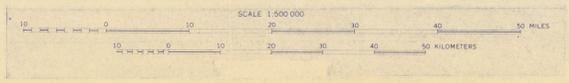
Peterson, D. L., and Ortel, S. S., 1970, Gravity anomalies in Cache Valley, Cache and Box Elder Counties, Utah, and Blaine and Franklin Counties, Idaho, in U.S. Geol. Survey Prof. Paper 666c, p. 116-118, 4 figs.

Ruppel, E. T., Watts, K. S., and Peterson, D. L., 1970, Geologic, geomorphic, and geophysical investigations in the northern part of the Glenrose mining district, Lemhi County, Idaho, U.S. Geol. Survey open-file report.

Wilson, G. W., and Mabe, D. R., 1974, Principal facts for gravity stations in the southern Snake River area, Cassia County, Idaho, U.S. Geol. Survey open-file report, 8 p.

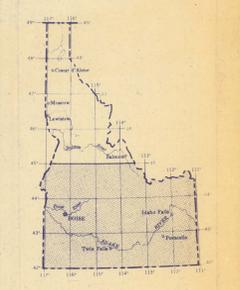
Data obtained from the Defense Mapping Agency Gravity Library. Unpublished gravity surveys by R. L. Grace, D. R. Mabe and D. L. Peterson.

This map is preliminary and has not been edited or corrected for conformity to Geological Survey standards.



PRELIMINARY GRAVITY MAP OF SOUTHERN IDAHO
DON R. MABEY, DONALD L. PETERSON, AND CAROL W. WILSON

1974



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