

BOUGUER GRAVITY ANOMALY MAP

SCALE 1:250,000



EXPLANATION

Gravity contours
Dashed where approximately located.
Contour interval 5 milligals

Gravity contour enclosing area of low gravity

Gravity station

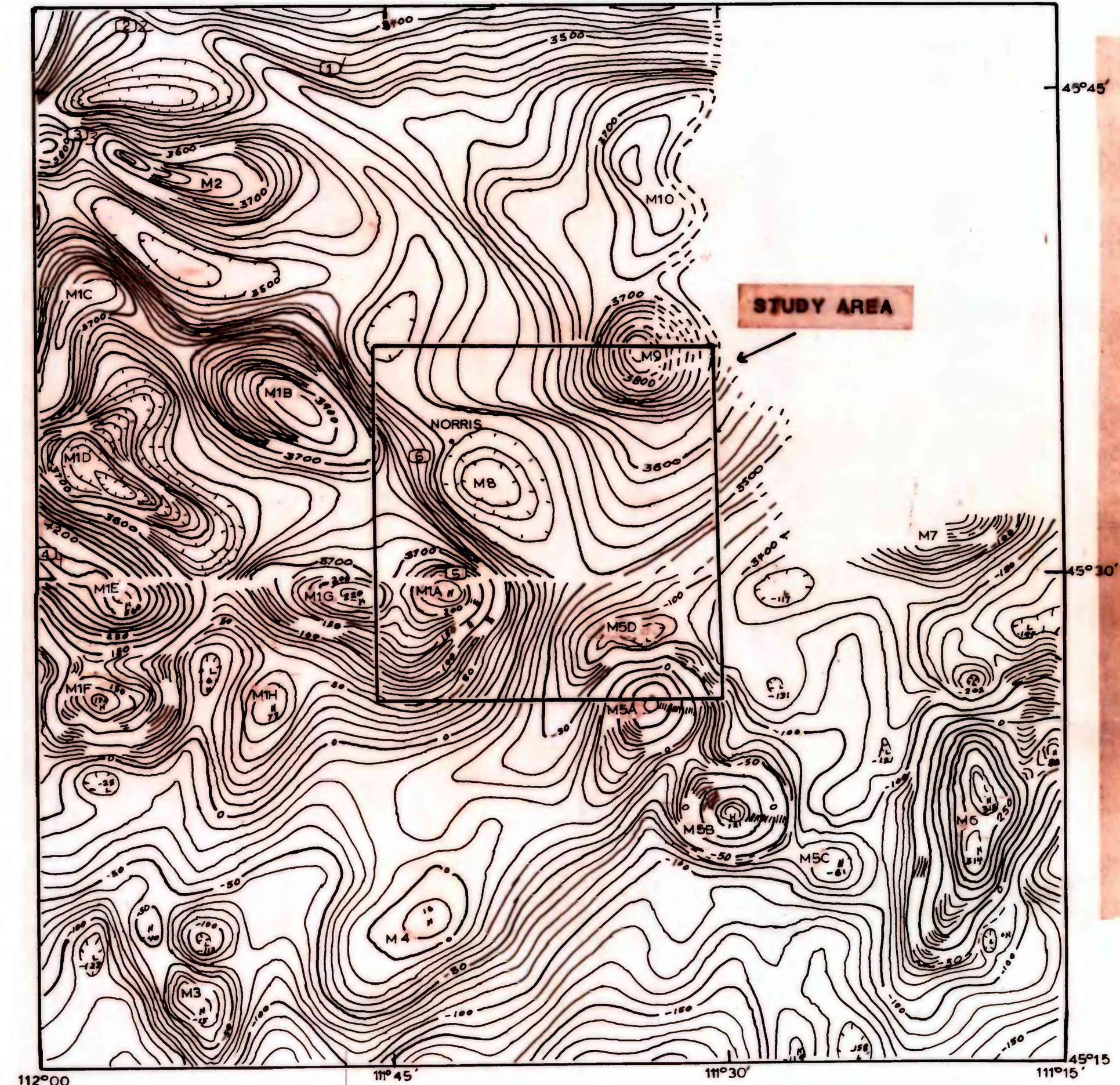
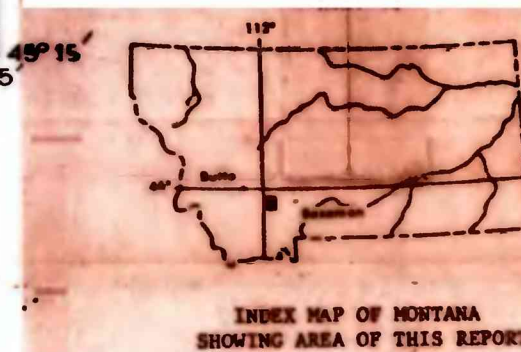
GA1 Index number for anomaly

Burford, W. J., 1949, Gravity investigations of selected batholiths and basins of southwestern Montana: EOS (Am. Geophys. Union Trans.), v. 50, no. 10, p. 536.

Davis, W. E., Kinoshita, W. T., and Robinson, G. D., 1945, Bouguer gravity, aeromagnetic, and generalized geologic map of the western part of the Three Forks Basin, Jefferson, Broadwater, Madison, and Gallatin Counties, Montana: U.S. Geological Survey Geophysical Investigations Map GP-497, scale 1:62,500.

Davis, W. E., Kinoshita, W. T., and Robinson, G. D., 1945, Bouguer gravity, aeromagnetic, and generalized geologic map of the eastern part of the Three Forks Basin, Broadwater, Madison, and Gallatin Counties, Montana: U.S. Geological Survey Geophysical Investigations Map GP-498, scale 1:62,500.

Biehler, Sherrill, and Sorial, W. E., 1969, A regional gravity study of the Boulder Batholith, Montana: Geological Society of America Memoir 115, p. 401-422.



COMPOSITE AEROMAGNETIC ANOMALY MAP

SCALE 1:250,000



EXPLANATION

Magnetic contours showing total intensity magnetic field of the earth in gammas

Hachured to indicate closed areas of lower magnetic intensity; dashed where data are incomplete

Measured maximum or minimum intensity within closed high or closed low

Datum base arbitrary

Contour Interval 20 Gammas

Flight level 3,200 meters barometric

Data source for north part of map: Johnson, R. W., Jr., Henderson, J. R., and Tyeon, W. S., 1965, Aeromagnetic map of the Boulder Batholith area, southwestern Montana: U.S. Geological Survey Geophysical Investigations Map GP-538, scale 1:250,000.

Datum base 57,360 Gammas

Contour Interval 10 Gammas

Flight level 3,658 meters barometric

Data source for south part of map: U.S. Geological Survey, 1975, Aeromagnetic map of southwestern Montana and east-central Idaho: Open-File Report 75-655, scale 1:250,000.

M5D Index number for anomaly

6 Sample location (Colville, 1961; Hanna, 1965). Numbers are keyed to table 4.