



SCALE 1: 200,000

EXPLANATION

(For details, see DESCRIPTION OF MAP UNITS)

Geological legend and symbols including:
- Symbols for faults (Normal, Thrust, Strike-slip, etc.)
- Symbols for various rock types (Granite, Quartzite, etc.)
- Symbols for structural features (Folds, etc.)
- Symbols for map units (A, B, C, etc.)

INDEX TO SOURCE DATA (See References Cited)
- Grid of 11x11 quadrangles
- List of references for each quadrangle
- Includes a small map of Montana showing the study area location.

DESCRIPTION OF MAP UNITS

- 1. Granite (1962)
2. Granite (1962)
3. Granite (1962)
...
11. Granite (1962)
12. Granite (1962)
13. Granite (1962)
...
23. Granite (1962)

Using criteria based on variations in composition of the batholith to assign to two main groups: (1) the main mass, and (2) the outer zone. The main mass is defined as the batholith proper, and the outer zone as the area surrounding it. This section contains detailed descriptions of the geological units, their compositions, and their relationships to each other.

References cited
- List of authors and titles of works cited in the report, including geological surveys, research papers, and books.

PRELIMINARY MAP OF PLUTONIC UNITS OF THE BOULDER BATHOLITH, SOUTHWESTERN MONTANA

By
Harry W. Smedes, Montis R. Klepper, and Robert I. Tilling
1988

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names or product names does not imply endorsement by the USGS.