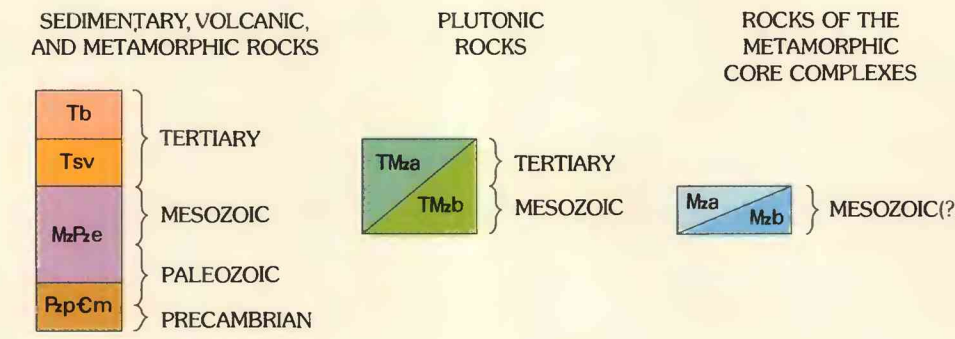




A.—Bouguer gravity anomaly and major rock units

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS

- Tb** Tertiary—Includes basalt in British Columbia not part of the Columbia River Basalt Group.
- Tsv** Sedimentary and volcanic rocks (Eocene)—Basaltic, andesitic, dacitic, rhyolitic, and trachytic lava flows, hypabyssal intrusive rocks, pyroclastic rocks, sandstone, graywacke, shale, and conglomerate.
- MpFe** Eugeosynclinal deposits (Cretaceous to lower Paleozoic)—Sandstone, graywacke, argillite, conglomerate, lava flows, pyroclastic rocks, greenstone, greenschist, slate, phyllite, schist, meta-schist, metabasalt, conglomerate, marble, and metachert. Locally includes medium- and high-grade metamorphic rock.
- PpCm** Miogeoclinal deposits (upper Paleozoic to Precambrian)—Limestone, dolomite, argillite, slate, phyllite, schist, marble, quartzite, siltite, and minor greenstone and conglomerate. Locally includes metamorphic rock of probable Mesozoic age.

PLUTONIC ROCKS (EOCENE TO UPPER TRIASSIC)

- TMa** Biotite-hornblende- and pyroxene-amphibole-biotite-bearing granitic rocks.
- TMb** Biotite-muscovite- and biotite-bearing granitic rocks—Commonly gneissose and (or) cataclastic, containing accessory garnet and allanite; includes two-mica granitic rocks of Miller and Engels (1975).

ROCKS OF THE METAMORPHIC CORE COMPLEXES (AGE OF METAMORPHISM PROBABLY MESOZOIC)

- Ma** Layered gneiss—Locally includes intercalated schist, marble, quartzite, amphibolite, pegmatite, and migmatite. Includes Monashee Group of Shuswap Terrane of Jones (1959).
- Mb** Linedated leucocratic biotite- or biotite-muscovite-bearing granitic gneiss. Commonly contains accessory garnet. Locally grades to orthoclase augen gneiss or to massive granitic rock.

CONTACTS

- CONTACT—Queried where projected through unmapped area.
- - - FAULT—Dotted where concealed.
- ▲ THRUST FAULT—Sawtooth on upper plate.

MIDNITE URANIUM MINE

- ⋈ MIDNITE URANIUM MINE

BOUGUER GRAVITY ANOMALY

- 130 BOUGUER GRAVITY ANOMALY—Contour interval 5 mgal.

GRAVITY ANOMALY DISCUSSED IN TEXT

- E GRAVITY ANOMALY DISCUSSED IN TEXT

D' ZONE OF GRAVITY GRADIENTS

- D' ZONE OF GRAVITY GRADIENTS

RELATIVE AEROMAGNETIC HIGH

- RELATIVE AEROMAGNETIC HIGH—More intense pattern indicates highest values.

AEROMAGNETIC ANOMALY DISCUSSED IN TEXT

- A AEROMAGNETIC ANOMALY DISCUSSED IN TEXT—Asterisk shows ring-shaped anomaly.

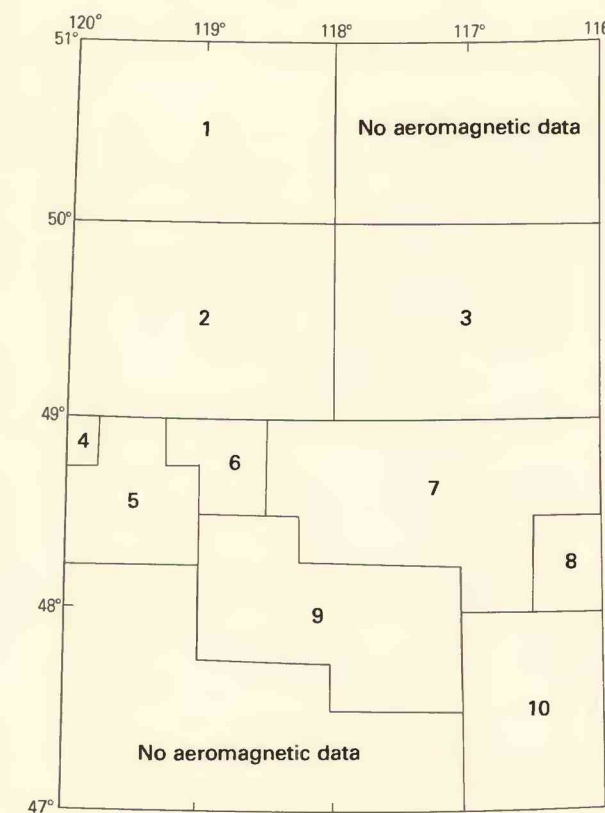
SOURCES OF GEOLOGIC AND COMPOSITIONAL DATA

Geology modified from Fox and others, 1977, fig. 3, p. 6-7 and Miller and Engels (1975), with additions east of 116° W. long from Little (1962), Ross and Forrester (1947), and Harrison and others (1972), and south of 48° N. lat from Huntington and others (1961), Griggs (1973), and Becraft and Weiss (1963). Compositional data used in classification of granitic rocks from sources of data listed in Fox and others 1977, fig. 3, p. 7, from the references listed above, and from Anderson (1940), Barksdale (1975), Bennett and others (1976), Crosby (1968), Daly (1912, p. 284-287), Griggs (1966), G. B. Leach in Lowden (1963, p. 30), Read (1973, p. 8, 32-33), Reesor (1958, in Lowden (1963, p. 7-27), 1965, 1973), Rice (1941), Wagner (1949), and Weissenborn and Weiss (1976).

SOURCES OF GRAVITY DATA

United States from Cady and Meyer (1976). Canada from Stacey and others (1973). See text for discussion of conversion of Canadian data to the new Potsdam datum and the Geodetic Reference System of 1967. Even numbered contours on this map were interpolated from the Canadian data.

SOURCES OF AEROMAGNETIC DATA



1. Geological Survey of Canada, 1973a, scale 1:253,440.
2. Geological Survey of Canada, 1973c, scale 1:253,440.
3. Geological Survey of Canada, 1973b, scale 1:253,440.
4. U.S. Geological Survey, 1976, scale 1:62,500.
5. U.S. Geological Survey, 1977, scale 1:62,500.
6. Hunting Geophysical Services, Inc., 1960, scale 1:62,500.
7. U.S. Geological Survey, 1973, scale 1:250,000.
8. Harrison and others, 1972, scale 1:125,000.
9. U.S. Geological Survey, 1974, scale 1:250,000.
10. Zietz and others, 1978, scale 1:1,000,000.



B.—Generalized aeromagnetic highs and major rock units

