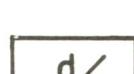


## EXPLANATION

## PLUTONIC ROCKS



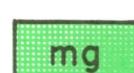
Massive, jointed, porphyritic to ophitic, greenish-black diabase, composed of olivine, labradorite, and augite phenocrysts in a groundmass, composed of orthopyroxene, labradorite, augite, (epidote, carbonate) serpentine, chlorite, and magnetite.



Medium to fine, massive, white-gray hypidiomorphic granite, composed of microcline, quartz, oligoclase, biotite, muscovite, chlorite, and magnetite.



Very coarse, massive, pink pegmatite, composed of quartz, microcline, biotite and muscovite.



Medium, massive to foliated, pink granite composed of quartz, microcline, biotite and muscovite.



Very coarse, massive, white pegmatite composed of microcline, albite, quartz, muscovite, and biotite. Contains schist as inclusions.



Medium, porphyritic to hypidiomorphic, foliated, cataclastic, white-gray granite composed of microcline, albite, and muscovite, phenocrysts in a groundmass composed of microcline, quartz, albite, muscovite, andalusite (if garnetiferous), apatite and zircon.



Chiefly coarse, foliated, with compositional banding in places, gray granodiorite, composed of twinned microcline phenocrysts, where porphyritic, in a groundmass composed of oligoclase, biotite, actinolite, andalusite, minor amounts of quartz, orthopyroxene, garnet and magnetite. Minor amounts of (1) medium, faintly foliated pink granodiorite composed of oligoclase, biotite, almandine, green quartz diorite, amphibole, and apatite. (2) Medium, foliated pink quartz diorite, composed of oligoclase, hornblende, biotite, quartz, chlorite, sphene, siron and magnetite, and (3) Very coarse, massive to foliated, white pegmatite, composed of microcline, quartz, biotite and andalusite.

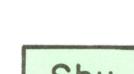


Chiefly coarse to medium, foliated, compositionally banded, pink gneiss composed of microcline, quartz, biotite, oligoclase, muscovite and magnetite. Minor amounts of: (1) Coarse to medium foliated compositionally banded, white gneiss, composed of quartz, microcline, orthoclase, andalusite, and magnetite and muscovite. (2) Medium foliated green to gray amphibolite composed of actinolite, quartz, andesine, diopside, biotite and sphene.

## METAMORPHIC ROCKS



Sillimanite zone: Chiefly coarse to medium, wrinkled, gray rusty schist composed of biotite, quartz, andalusite, muscovite and almandine. Minor amounts of coarse, gray-white gneiss composed of quartz, biotite, muscovite, sillimanite and garnet.



Berwick formation (Upper member)  
Chlorite zone: Fine foliate gray phyllite-schist composed of quartz, chlorite, sericite, green biotite, albite, magnetite and dolomite. Brown biotite zone: Medium purplish-brown schist, composed of quartz, biotite, oligoclase, muscovite, apatite and chlorite. Chlorite-sericite zone: Medium green phyllite-schist composed of quartz, oligoclase, biotite and magnetite. Minor amounts of: (1) Medium gray-pink, spotted gneiss composed of actinolite, quartz, andesine, almandine-granularite, epidote, chlorite, muscovite, and magnetite. (2) Medium greenish-gray gneiss composed of chlorite, epidote, oligoclase, quartz and calcite. (3) Coarse fasciculate schist, composed of quartz, actinolite, andesine, biotite, diopside, epidote and sphene, and (4) Greenish-black gneiss composed of hornblende, labradorite, quartz, sphene and apatite.



Berwick formation (Lower member)  
Chlorite zone: Chiefly pinkish-brown granulite, composed of quartz, biotite, sericite, chlorite, albite, and magnetite. Minor amounts of plagioclase, brownish-green phyllite-schist composed of quartz, biotite, andesine, almandine, and magnetite. Biotite zone: Chiefly pinkish brown granulite composed of quartz, biotite, oligoclase and muscovite. Minor olivoclase, biotite, muscovite, actinolite, epidote, and sphene.

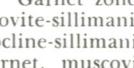


Eliot formation (Lower member)  
Garnet zone: Chiefly fine pinkish-brown granulite, composed of quartz, biotite, oligoclase, and calcite. Minor amounts of medium green to gray pinstripped gneiss composed of epidote, andesine, olivoclase, quartz, biotite, diopside, calcite, garnet, magnetite, sphene, apatite, and zircon.

## METAMORPHIC ZONES



Chlorite zone: Chiefly fine pinkish-brown granulite, composed of quartz, biotite, oligoclase, and calcite. Minor amounts of medium green to gray pinstripped gneiss composed of epidote, andesine, olivoclase, quartz, biotite, diopside, calcite, garnet, magnetite, sphene, apatite, and zircon.



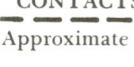
Garnet zone: Chiefly fine pinkish-brown granulite, composed of quartz, biotite, oligoclase, and calcite. Minor amounts of medium green to gray pinstripped gneiss composed of epidote, andesine, olivoclase, quartz, biotite, diopside, calcite, garnet, magnetite, sphene, apatite, and zircon.



Muscovite-sillimanite zone: Chiefly pinkish brown granulite composed of quartz, biotite, andalusite, garnet, sphene, and apatite.

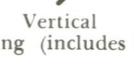
(Shown by biotite, garnet, muscovite-sillimanite, and microcline-sillimanite isograds)

## GARNET ISOGRAD

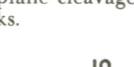


CONTACTS: Accurate, Approximate, Gradational

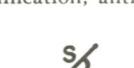
## STRUCTURAL SYMBOLS



Inclined Strike and dip of axial plane cleavage of metamorphic rocks and foliation in plutonic rocks.



Vertical Strike and dip of axial plane cleavage of metamorphic rocks and foliation in plutonic rocks.



Overturned Strike and dip of axial plane cleavage of metamorphic rocks and foliation in plutonic rocks.



Plunges of lineation; anticline; syncline



Silicified zones

Abandoned quarries in granite and pegmatite

