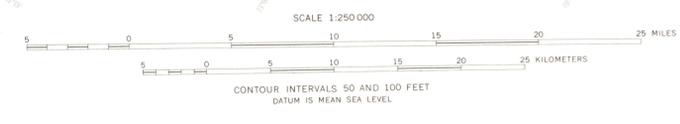


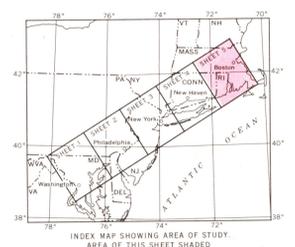
**EXPLANATION**  
The map units are based on lithology and do not imply stratigraphic succession. See accompanying table for detailed descriptions and engineering properties. Heavy border around box indicates unit present on this map.

- 24 Conglomerate (fanglomerate)
- 23 Basalt flows, diabase dikes, and sills
- 22 Chiefly red sandstone and shale with conglomerate
- 21 Black shale, mudstone, and siltstone  
*Locally well cemented and very hard*
- 20 Chiefly red shale
- 19 Conglomerate  
*Relatively unmetamorphosed; well cemented and hard*
- 18 Shale and limestone  
*Relatively unmetamorphosed*
- 17 Sandstone and shale  
*Relatively unmetamorphosed*
- 16 Volcanic rocks  
*Commonly altered and slightly metamorphosed; includes feldite, rhyolite, and local andesite, basalt, and porphyry*
- 15 Greenstone
- 14 Argillite, siliceous shale, slaty shale, slate, phyllite, and fine-grained schist
- 13 Gneiss and schist  
*Typically massive and granitic in appearance, containing pebbles to boulder-size fragments*
- 12 Fine-grained mica schist, chlorite schist, and phyllite with interbedded sequences of micaceous quartzite
- 11 Mica schist and mica gneiss, medium to coarsely crystalline
- 10 Marble, crystalline limestone, and dolomite
- 9 Quartzite, with interbedded conglomerate, schist, and gneiss
- 8 Anorthosite
- 7 Serpentinite, steatite, and related ultramafic and gabbroic rocks
- 6 Massive to gneissic granitic rocks  
*Range in composition from quartz diorite to granite*
- 5 Quartz gabbro, diorite, dark quartz diorite, and their low-grade metamorphic equivalents
- 4 Gabbro, norite, and massive- to weakly-foliated metagabbro  
*Includes some ultramafic rocks*
- 3 Layered gneiss  
*Strongly layered; layers differ sharply in composition. Mineralogy depends on degree of metamorphism. Includes interbedded amphibolite, hypersthene granulite, quartz-plagioclase gneiss, biotite-quartz-feldspar gneiss, mica schist, greenstone, and schistose felsite*
- 2 Amphibolite, epidote amphibolite, and well-foliated metagabbro
- 1 Biotite-quartz-feldspar gneiss with associated migmatite, granulite, amphibolite, and granitic rocks
- Coastal Plain deposits  
*Shown in section only*
- Contact  
*Dotted where concealed; omitted within the mapped area where sources of data differ*
- Fault  
*Dashed where approximately located; dotted where concealed; quartered where probable but unproved*
- Thrust fault  
*Southwest on upper plate*

Base by U.S. Geological Survey



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1967—647177  
Geology compiled by H. E. Simpson, R. M. Barker, and K. V. Dieterich



**ENGINEERING GEOLOGY OF THE NORTHEAST CORRIDOR, WASHINGTON, D.C., TO BOSTON, MASSACHUSETTS**  
**BEDROCK GEOLOGY**

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sheet 5, cap. 2.