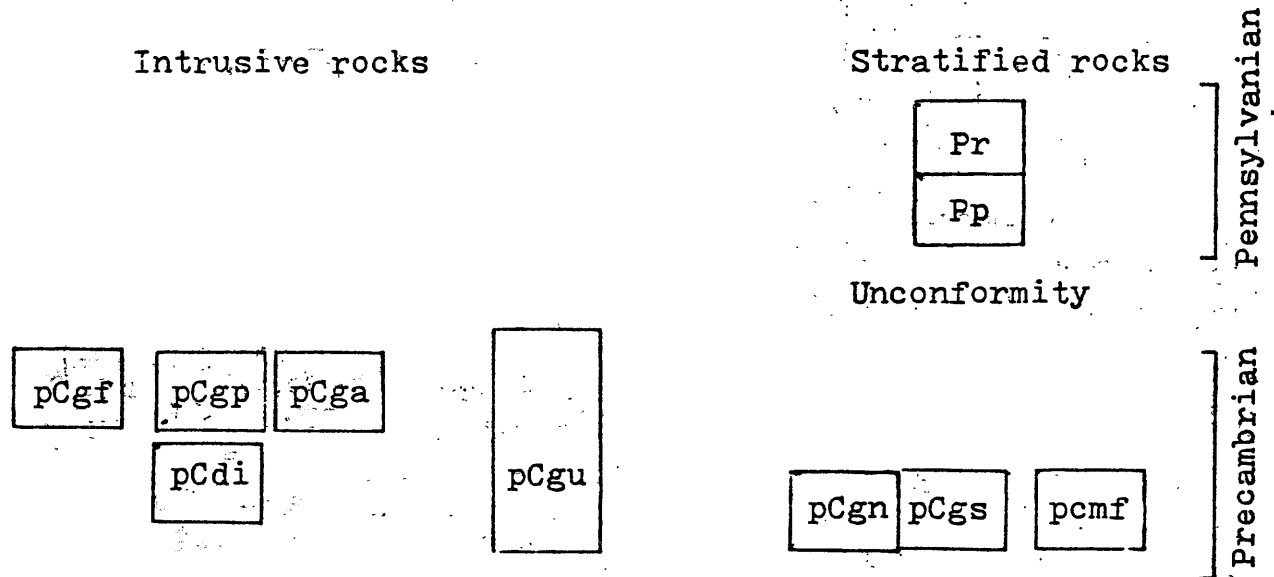


## EXPLANATION

## Correlation of Rock Units



## Description of Rock Units

- Pr** Rhode Island Formation - Conglomerate, sandstone, graywacke, arkose, and shale; subordinate meta-anthracite. Fossil plants indicate a Pennsylvanian age
- Pp** Pondville Conglomerate - Conglomerate with abundant sandy matrix; pebbles are mainly quartzite, but some are granite and schist. Quartz-granule conglomerate south of Fall River (Quinn, 1971)
- pCgf** Granite of the Fall River pluton - Light gray to pale orange, non-foliated to weakly foliated biotite granite typically with albite and microperthite. Includes Bulgarmarsh Granite (Pollock, 1964) and mafic-poor phases not mapped separately

pCgp

Porphyritic granite - Inequigranular to porphyritic, gray to dark gray granite and quartz monzonite typically containing phenocrysts or augen of microcline, accessory sphene, and a color index as high as 15. Increasingly gneissic from north to south. Includes Barefoot Hill Quartz Monzonite of Lyons (1977) and gneissic biotite granite in the Westport Point area.

pCga

Alaskitic granite - Light gray to flesh-colored, medium-grained, gneissic, mafic-poor granite, typically with albite, microcline, and accessory biotite, muscovite, and magnetite in different proportions

pCdi

Diorite and quartz diorite - Dark gray, medium-to coarse grained, massive, locally gneissic, hornblende diorite and quartz diorite; at Acushnet partly metamorphosed to amphibolite and hornblende gneiss

pCgu

Granite, gneiss, and schist undivided - Plutonic and metamorphic rocks of Precambrian age. May include rocks of Paleozoic or younger age

pCgs

Gneiss and schist - Layered gneiss, schist and granofels; layers differ in proportions of feldspars, quartz, hornblende, biotite, epidote and locally muscovite; rare amphibolite. In part metasomatized and thermally metamorphosed. Probably volcanoclastic in origin. Probably correlative with the Chlorite-biotite schist of Tiverton, Mica-chlorite schist of Sakonnet, and Mica schist of Bristol (see Quinn, 1971) but generally at higher metamorphic grade

pCgn

Biotite gneiss - Granitoid, gray, layered biotite-quartz-  
two feldspar gneiss with layers differing in proportions  
of these minerals

pCmf

Meta-felsite - Light gray-green, cleaved actinolite-  
bearing greenstone with relic "trachitic" texture.  
Probably meta-andesite or dacite

#### Description of map symbols



Contact; dashed where inferred, dotted where  
concealed



Fault; dashed where inferred, dotted where  
concealed



Trace of axial surface of foliation antiform

inclined vertical

20

30



Strike and dip of bedding

Strike and dip of foliation. Foliation most  
pervasive in southern part of area; in north-  
ern part varies in intensity from place to  
place and locally is coincident with shear  
zones

20

70

60

70



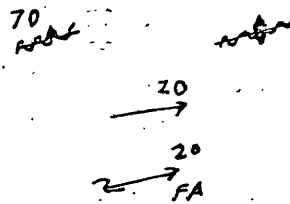
Strike and dip of foliation and compositional  
layering

Strike and dip of flow foliation

Strike and dip of cleavage or shear-fracture  
in granitic rock

Strike and dip of axial surfaces of minor  
folds of foliation

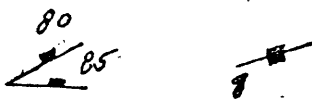
inclined vertical



Strike and dip of mylonite

Strike and plunge of lineation; mostly mineral lineation on biotite, quartz, feldspar, and hornblende; rarely axes of minor folds of foliation (FA); sense of fold shown where known

FIGURE 1 ONLY



Strike and dip of joints; q - quartz filled, e - epidote filled; location of observation in center of single symbols, at origin of clustered symbols

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- Quinn, A.W., 1971, Bedrock geology of Rhode Island: U.S. Geological Survey Bulletin 1295, 68 p.
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