

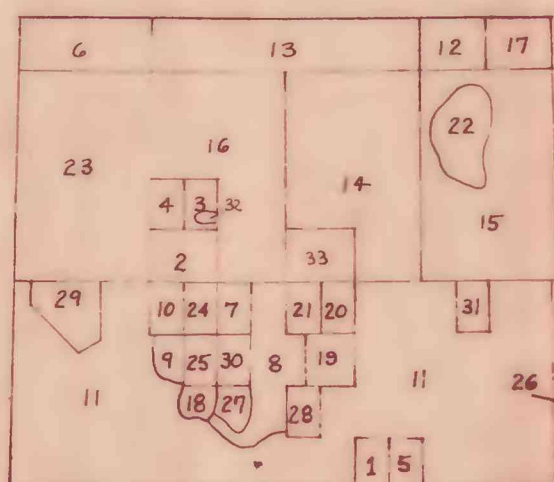
Sedimentary, volcanic, and metamorphic rocks



BASE FROM U.S. DEPT. COMMERCE
OPERATIONAL NAVIGATIONAL CHART E 16
EDITION 5

Scale 1:1,000,000
0 25 50 KILOMETERS
0 25 50 MILES

Source of data



1. Becraft (1966)
2. Bostock (1940)
3. Bostock (1941a)
4. Bostock (1941b)
5. Campbell and Raup (1964)
6. Cockfield (1961)
7. Fox (1970)
8. Fox and Rinehart, unpublished mapping
9. Goldsmith (1952)
10. Hibbard (1971)
11. Hunting and others (1961)
12. Hyndman (1968)
13. Jones (1959)
14. Little (1957)
15. Little (1960)
16. Little (1961)
17. Little (1962)
18. Menzer (1964)
19. Muessig (1967)
20. Parker and Colkins (1964)
21. Pearson (1967)
22. Reesor (1965)
23. Rice (1947)
24. Rinehart and Fox (in press [a])
25. Rinehart and Fox (in press [b])
26. Savage (1967)
27. Snook (1965)
28. Statz (1964)
29. Tabor and others (1968)
30. Waters and Krauskopf (1941)
31. Yates (1964)
32. Unpublished, 1971
33. Menzer, 1964

- M** Basaltic lava flows, plateau basalt. Includes Columbia River Basalt, Plateau Basalt, Valley Basalt.
- K** K. Epiclastic sedimentary rocks, basaltic, andesitic, dacitic, rhyolitic lava flows, hypabyssal intrusive rocks, and pyroclastic rocks. Includes Princeton Group, Kamloops Group, Marron Formation, Kettle River Formation, Sanpoil Volcanics, O'Brien Creek Formation, Klondike Mountain Formation, Jerome Andesite, and Ripstone Canyon Formation.
- L** L. Trachyte, trachyandesite, and other alkalic volcanic rocks. Includes Yellow Lake and Kitley Lake members of Marron Formation in the White Lake basin area, and Division 4A of the Marron Formation in the Greenwood area.
- J** Sandstone, graywacke, argillite, conglomerate, lava flows, and pyroclastic rock. Commonly weakly metamorphosed. Includes Kingsvale Group, Pasayten Group, Spence Bridge Group, Dawdney Creek Group, Jackass Mountain Group, Ladner Group, Midnight Peak Formation, Winthrop Ridge Formation, Winthrop Sandstone, Virginia Ridge Formation, Beaver Mountain Formation, Sophie Mountain Formation, Rossland Group, Hall Formation, Elise Formation, and Sinemurian Beds.
- I** Greenstone, greenschist, slate, phyllite, meta-wacke, meta-sharpstone conglomerate, marble, meta-chert. Includes Nicola Group, Barstow Formation, Independence Formation, Sheemaker Formation, Old Tom Formation, Slovan Group, Kobau Group, Ymir Group, Kaslo Group, Cache Creek Group, Anarchist Group, Mount Roberts Formation, Hozameen Group, Milford Group, and Covada Group.
- H** Limestone, dolomite, argillite, slate, phyllite, quartzite. Includes Active Formation, Nelway Formation, Laib Formation, Reno Formation, Quartzite Range Formation, Leadbetter Slate, Metalline Formation, Maitlan Phyllite, Gypsy Quartzite, Addy Quartzite, Old Dominion Limestone.
- G** Fine-grained siliceous sediments, including siltite, argillite, quartzite, limestone, dolomite, and minor greenstone and conglomerate. Also phyllite, slate, schist, and marble. Includes Windmeier and Purcell rocks, Belt Super Group, Dear Trail Group, and Huckleberry Formation.

Medium- and high-grade metamorphic rocks

- F** Paragneiss, schist, amphibolite.
- D/E** Monashee Group of Shuswap Series and similar rocks, believed to have been mobilized, probably in part as diapirs. Includes Passmore, Valhalla, and Okanogan gneiss domes.
D. Paragneiss
E. Orthogneiss

Plutonic rocks

- 8^A** Alkalic rocks, including monzonite, shonkinite, syenite, nepheline syenite, maligite, also alkali pyroxenite, gabbro, syenodiorite. Includes certain mafic rocks deemed alkalic because of presence of normative feldspathoids, namely Tulameen and Copper Mountain plutons.
- B** Granitic rocks, including granodiorite, quartz monzonite, quartz-bearing syenite and monzonite, quartz diorite, diorite, granite.
- 8_c** Ultramafic rocks, including peridotite, dunite, pyroxenite, hornblende, serpentinite.

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.

GEOLOGIC MAP OF NORTHEASTERN WASHINGTON
AND SOUTHERN BRITISH COLUMBIA

Kenneth F. Fox, Jr.

(200)
R29-
m. 1867
PLATES

U.S. GEOLOGICAL SURVEY
[REPORTS - OPEN FILE SERIES]