

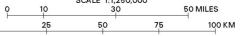
State Geologic Map, 2 sheets, scale 1:250,000 and 1:500,000, by W.A.

Bothner and E.L. Boudette.

Igneous rocks of the White Mountain Magma Series

State Geologic Map of New Hampshire, showing Devonian plutons in unfortunately hard-to-distinguish shades.

Map from: http://des.nh.gov/organization/commissioner/pip/publications/geologic/



Environmental

ΜE 71° W Ν NH VT 3 Kbar 44° N Migmatite Sillimanite-Cordierite Sillimanite-Orthoclase Sillimanite-Muscovite প্রিক্র Acadian Plutons 7 Kbar RΙ

Highest grade of metamorphism in central New England

This map is attempting to show that Devonian plutons are associated with the highest grade of regional metamorphism.

Note that the highest grades of metamorphism in Massachusetts and Connecticut is Pennsylvanian, and a lot of it in southern Maine is Permian. The migmatite regions are strange and should be ignored. Source unknown.

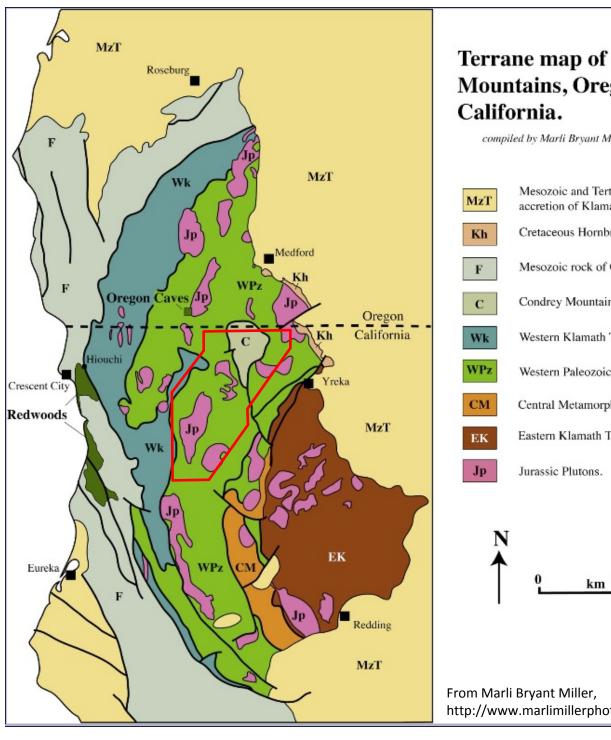
Summit of Mt. Cardigan, NH, made of Kinsman granodiorite and pegmatite dikes



Kinsman granite. Note the large microcline porphyroblasts and garnets.







Terrane map of the Klamath Mountains, Oregon and

compiled by Marli Bryant Miller, University of Oregon

Mesozoic and Tertiary sedimentary rock, postdates accretion of Klamath terranes.

Cretaceous Hornbrook Formation.

Mesozoic rock of Coast Ranges; mostly Franciscan Fm.

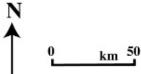
Condrey Mountain Schist, Mesozoic.

Western Klamath Terrane, mostly Jurassic.

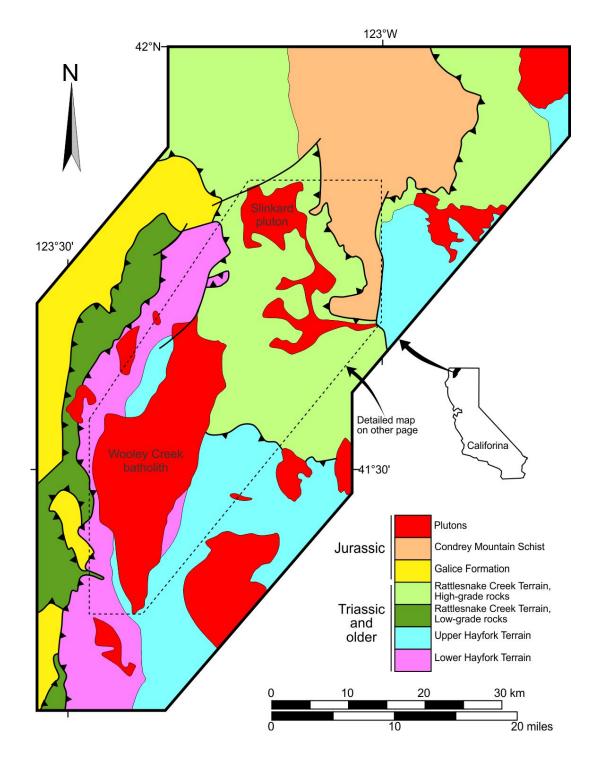
Western Paleozoic and Triassic Terrane.

Central Metamorphic Terrane (Devonian).

Eastern Klamath Terrane (Early Paleozoic to Jurassic).



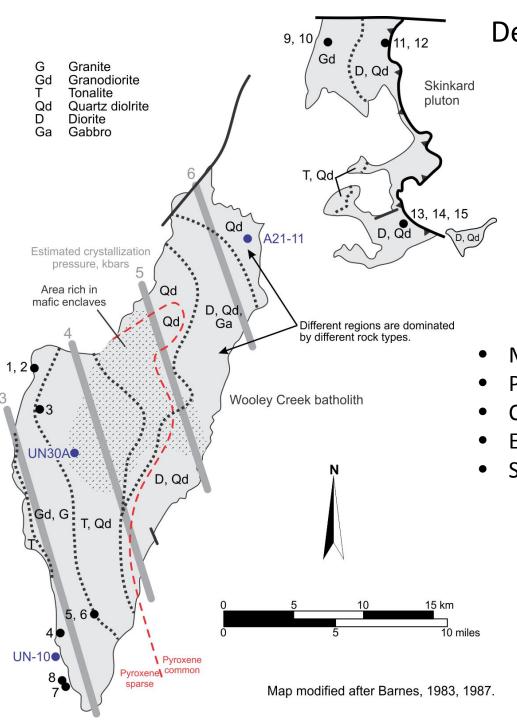
http://www.marlimillerphoto.com/Klamathmap.html



Generalized geologic map of the Wooley Creek Batholith-Slinkard pluton area.

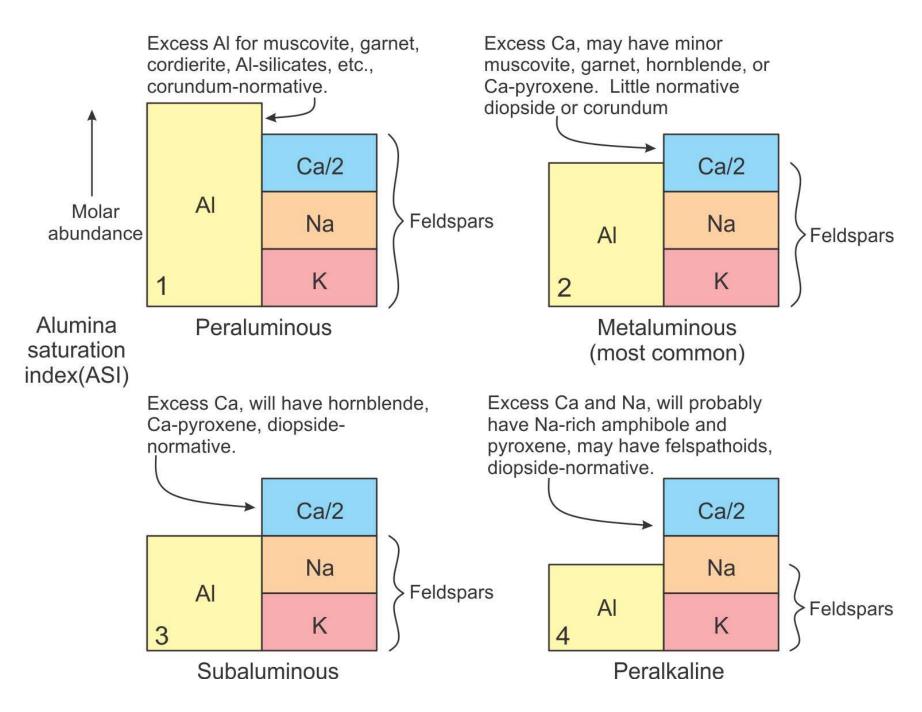
Jurassic continental arc plutons cut mostly Triassic older rocks.

Map after Barnes, 1983.



Detailed map of the Wooley Creek batholith and Slinkard pluton

- Most common rock types
- Pyroxene abundance
- Calculated igneous crystallization pressure
- Enclave abundance
- Sample locations



Calculating the alumina saturation index: molar Al/(Na+K+(Ca-1.67*P)*2)