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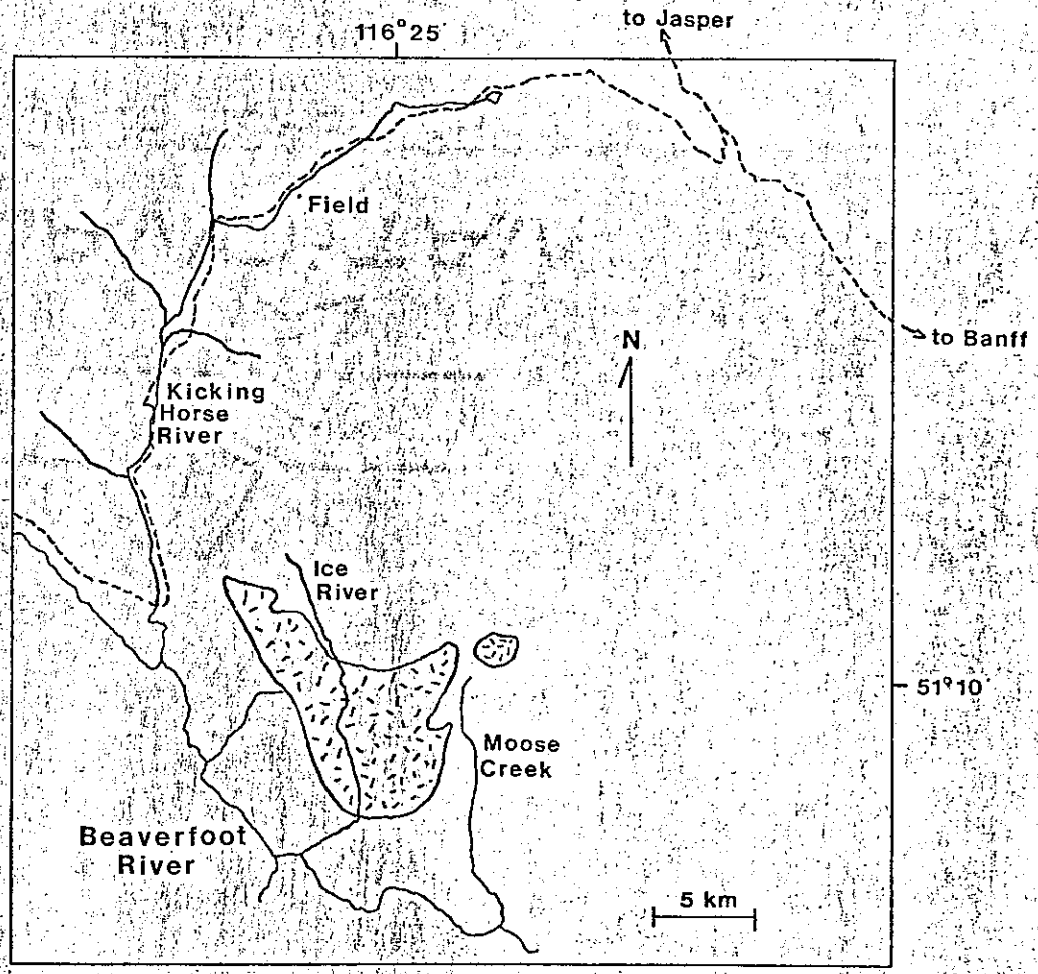
Figure 1

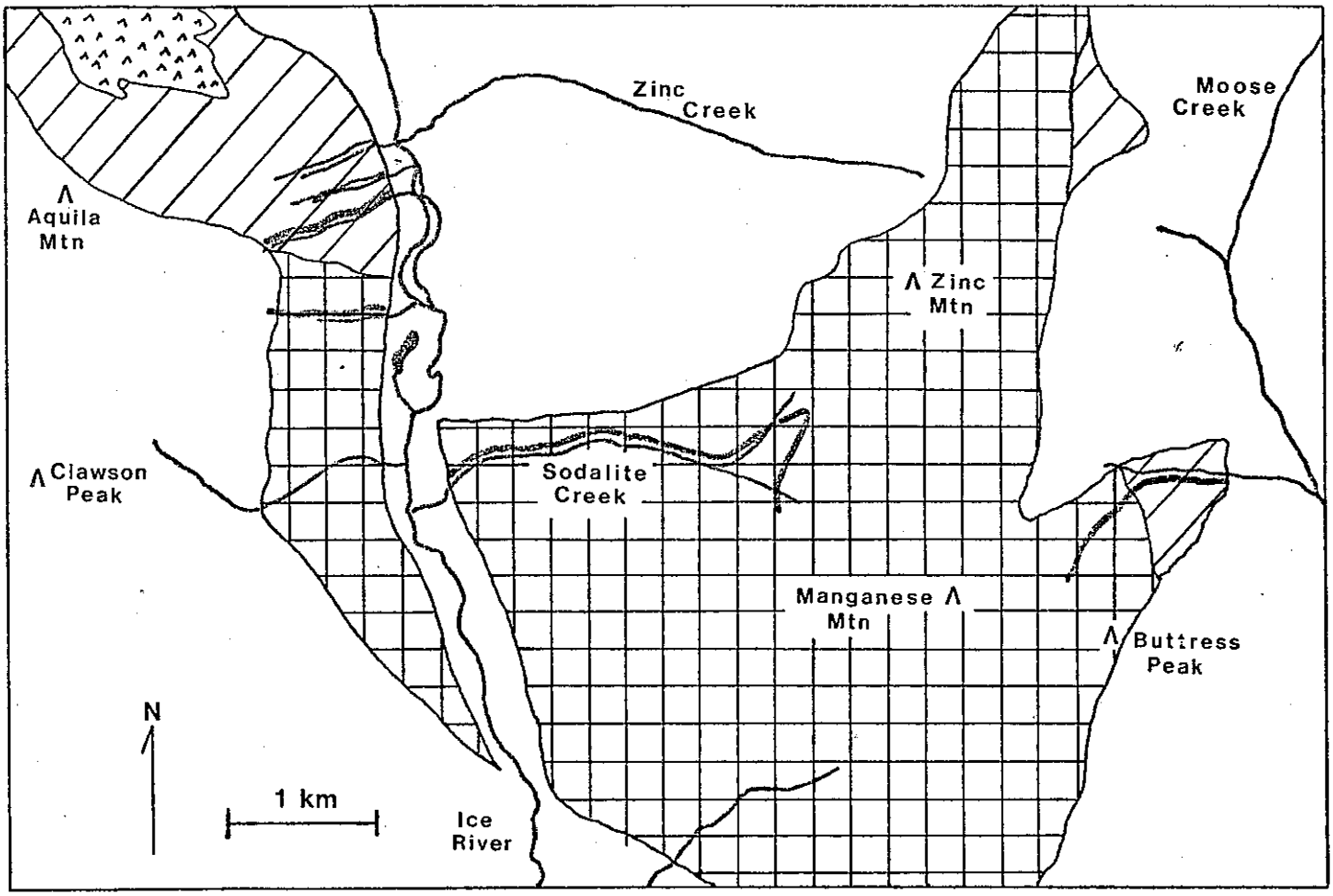
Location of the Ice River Complex



Extent of igneous rock

Figure 2

Traverse Locations



Syenitic Rocks

Traverse

Ultramafic Rocks

Carbonatite

Geology adapted from Currie (1975) with simplifications.

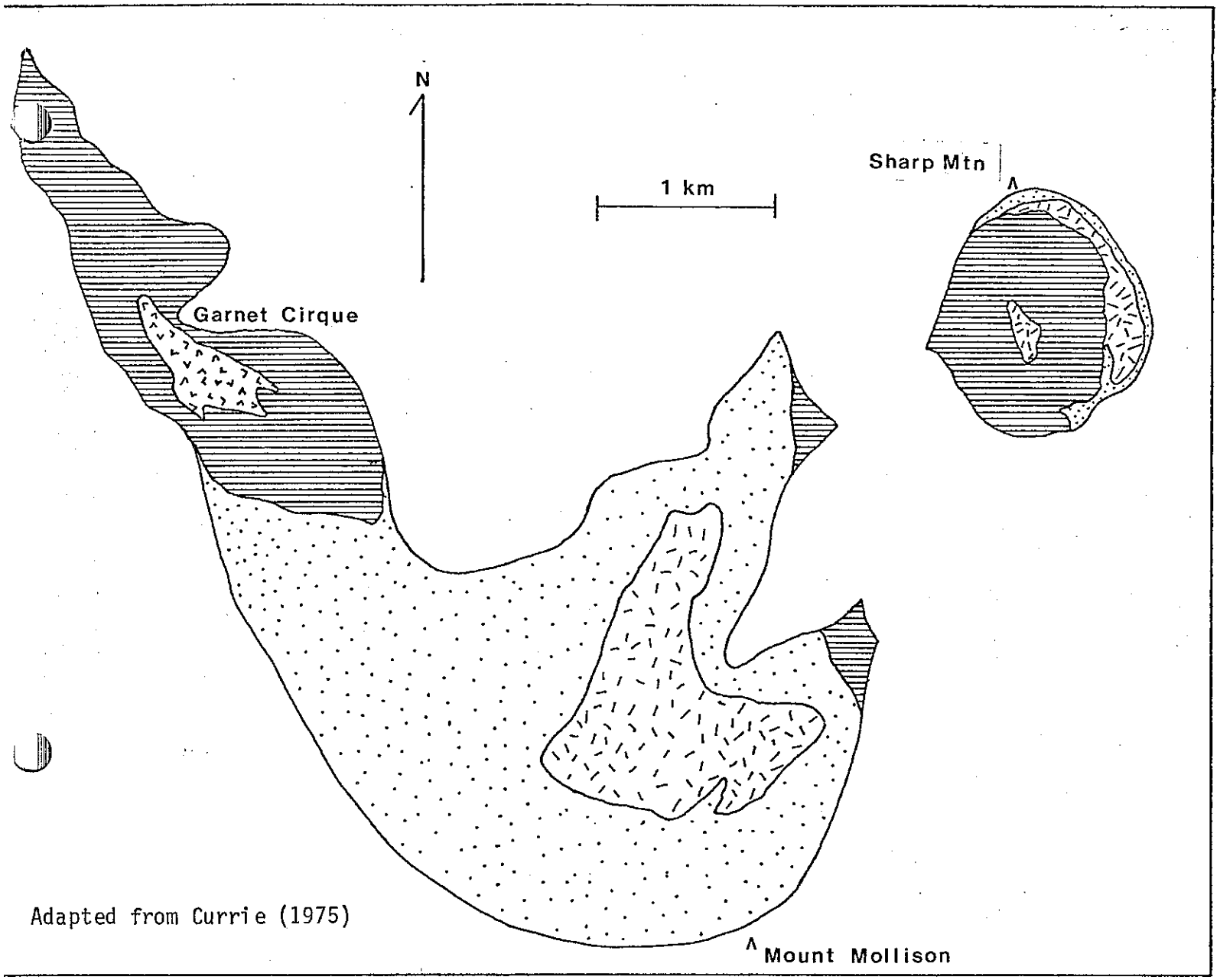


Figure 2A

Geology of the Ice River Complex

ULTRAMAFIC ROCKS
Pyroxenite, ijolite, and urtite

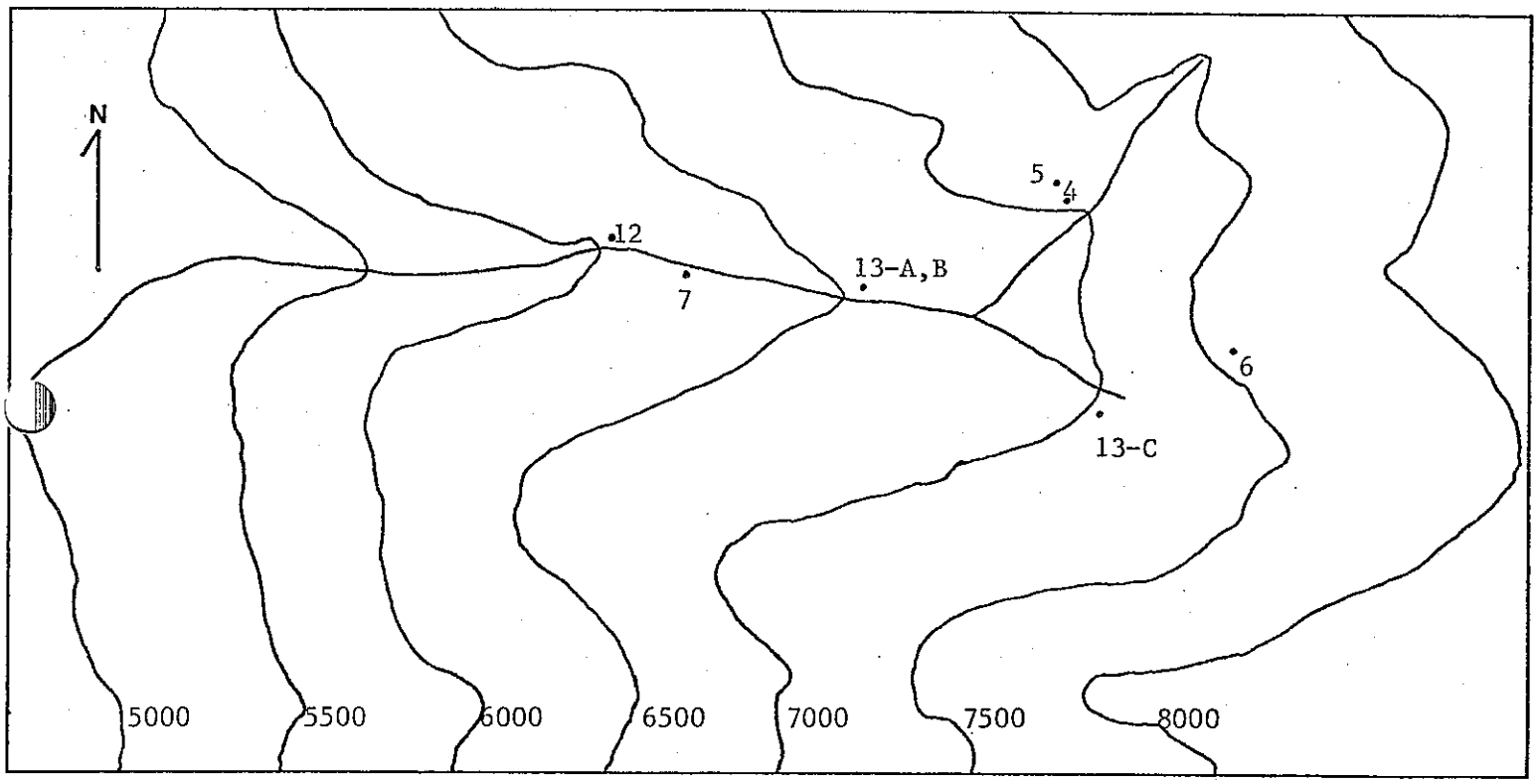
SYENITE BRECCIA
Mafic syenite inclusions in leucocratic syenite

Carbonatite

LEUCOCRATIC SYENITE
Nepheline and sodalite syenite

Figure 4

Sample Locations: Sodalite Creek



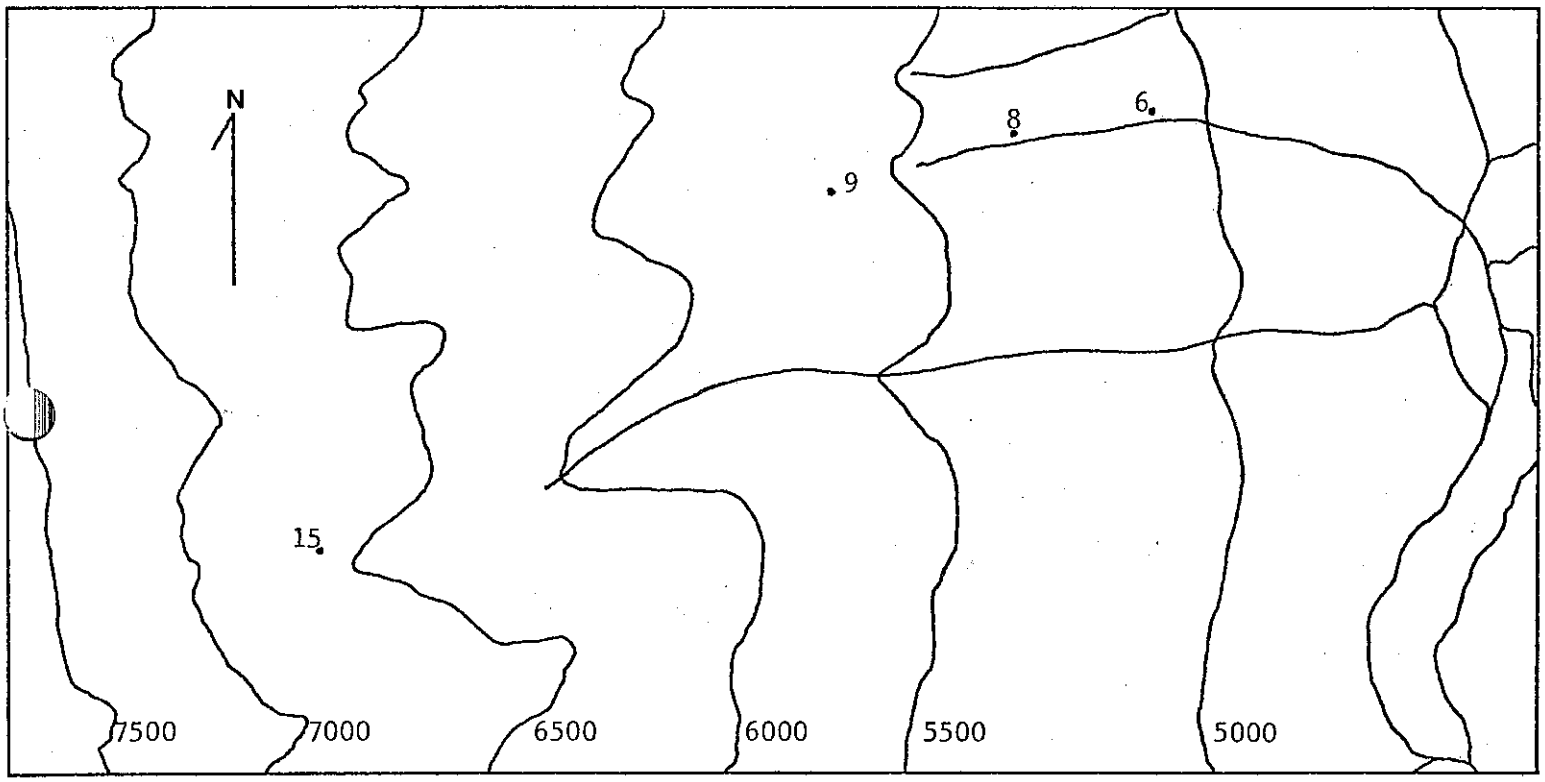
1 cm = 100 m

Altitudes are in feet

Samples 6 and 7 collected in 1983. All others are 81-IR.

Figure 5

Sample Locations: Aquila Ridge, 1981



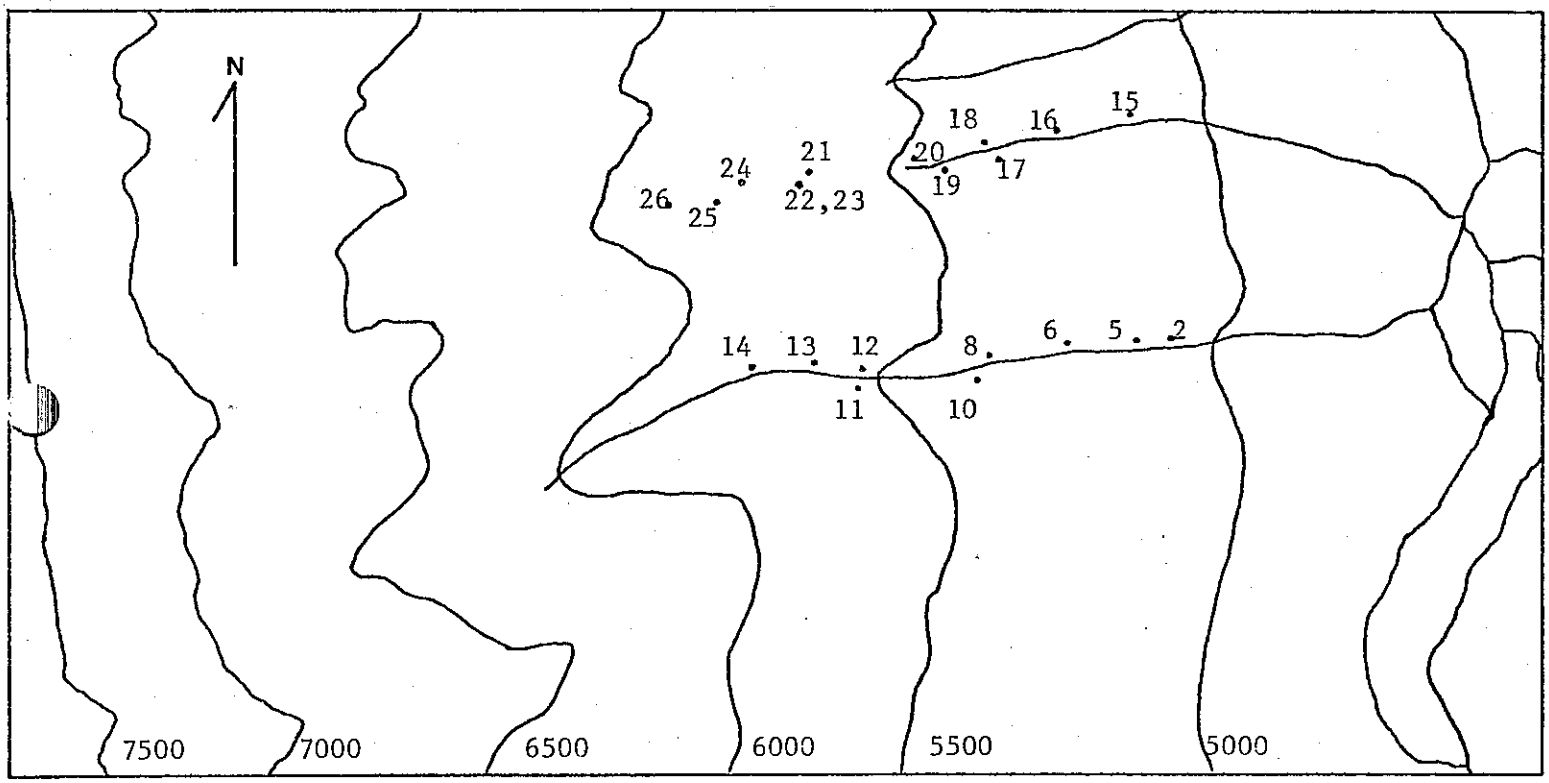
1 cm = 100 m

Altitudes are in feet

All samples are 81-IR

Figure 6

Sample Locations: Aquila Ridge, 1982



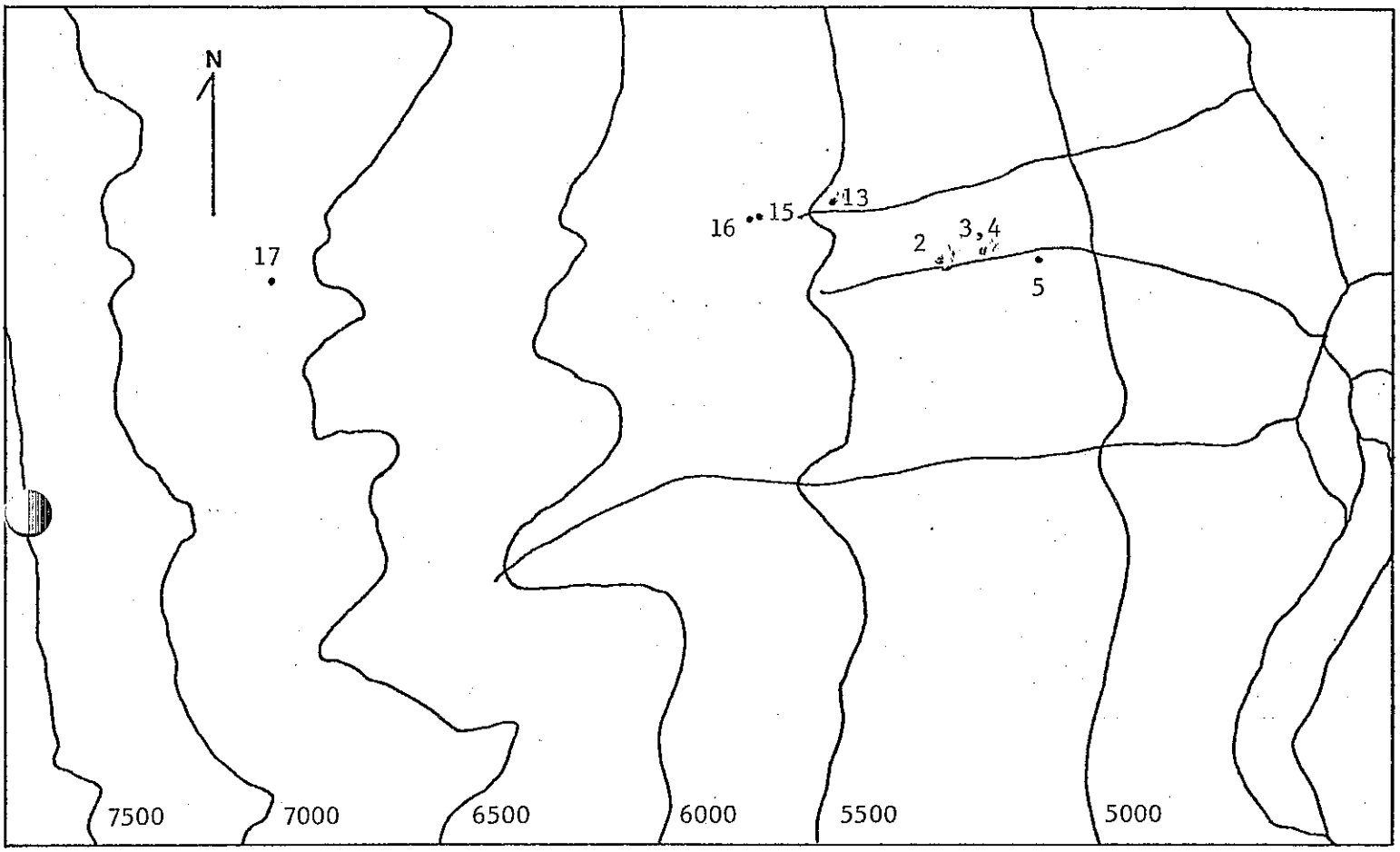
1 cm ≐ 100 m

Altitudes are in feet

All samples are 82-IR.

Figure 7

Sample Locations: Aquila Ridge, 1983



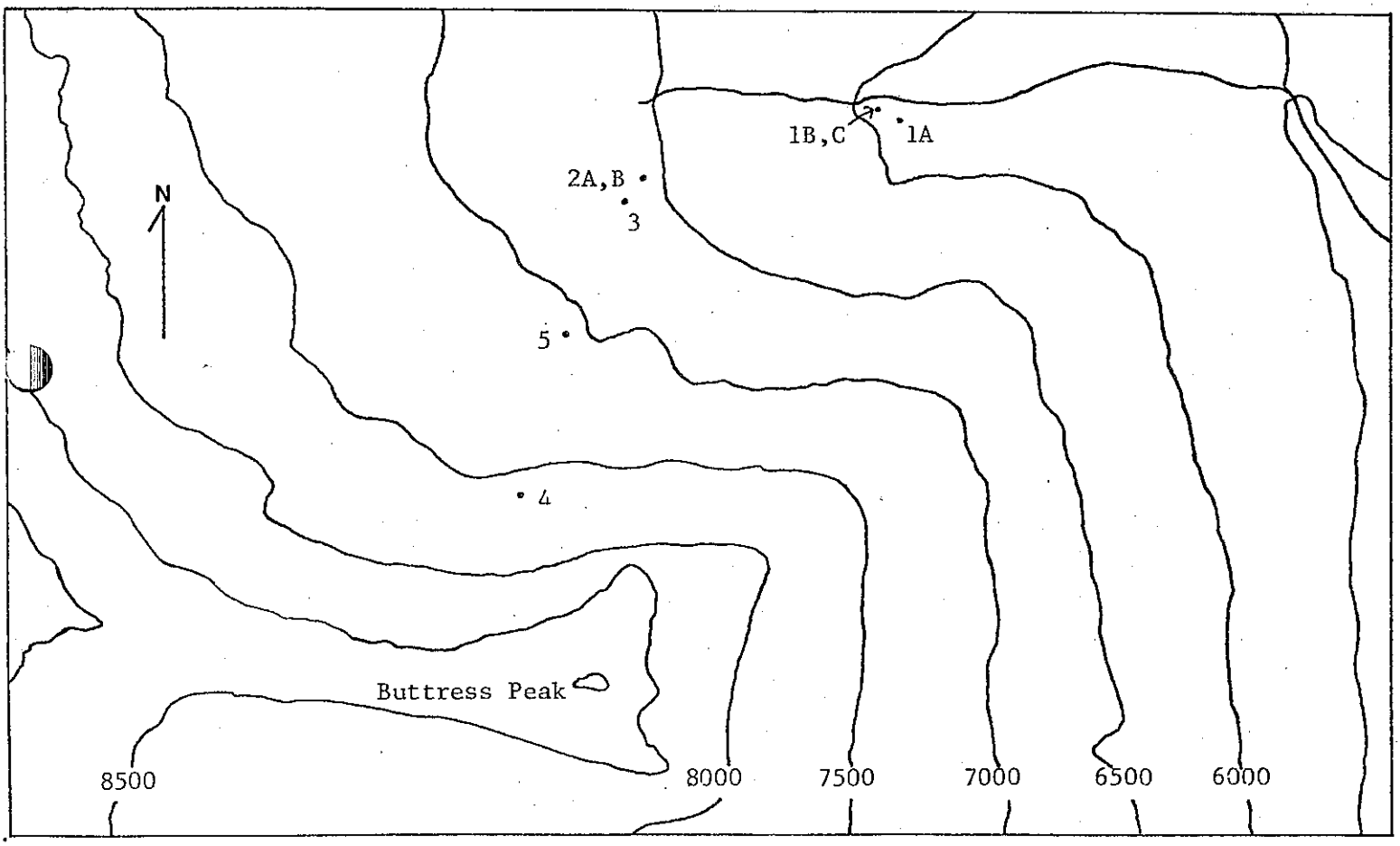
1 cm = 100 m

Altitudes are in feet

All samples are 83-IR.

Figure 6

Sample Locations: Moose Creek



1 cm = 125 m

Altitudes are in feet

All samples are 82-MC.

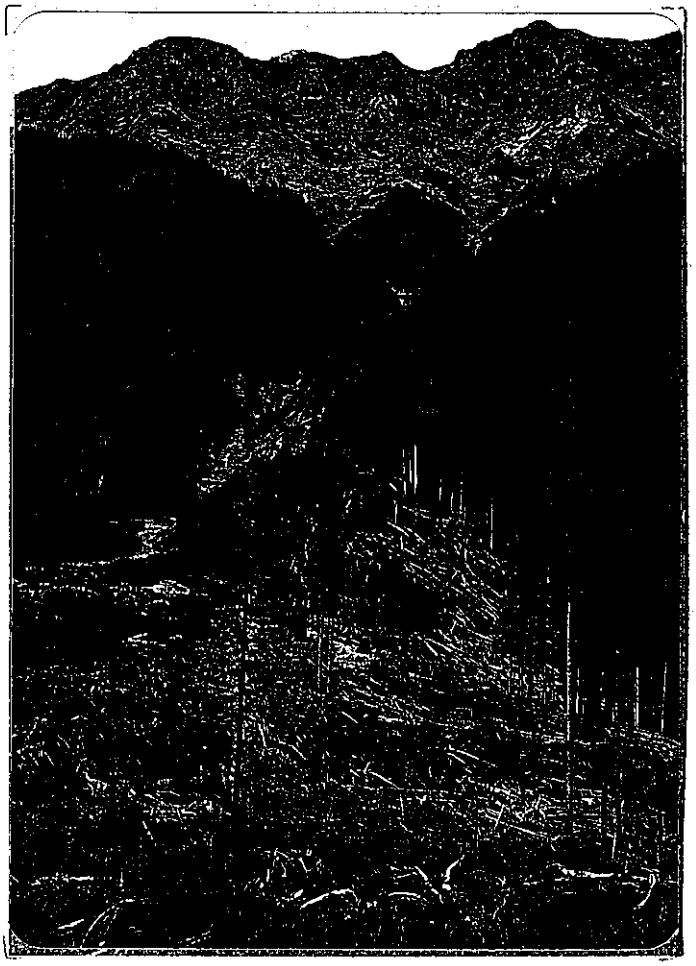


Figure 9

Aquila Ridge. The Ottertail Formation forms a cliff band above the roof of the complex along the ridge; the approximate locations of this contact and that between ijolitic rocks and the syenite breccia are drawn in. Further north (to the right) the syenite pinches out and ultramafic rocks are in direct contact with the limestone.