

List of Figures

Page	Figure	Description
71	1	Location of the Ice River Complex
72	2	Traverse Locations
73	3	Geology
74	4	Sample locations: Sodalite Creek
75	5	Sample locations: Aquila Ridge, 1981
76	6	Sample locations: Aquila Ridge, 1982
77	7	Sample locations: Aquila Ridge, 1983
78	8	Sample locations: Moose Creek
79	9	Aquila Ridge
80	10	Tabular ijolite body
81	11	Cyclic layering in ijolite dikes
82	12	Pegmatitic pyroxene in ijolite
83	13	Pegmatitic nepheline in ijolite
84	14	Crescumulate layering in ijolite
85	15	Melanite-zeolite layering
86	16	Isotropic ijolite
87	17	Diopside inclusions in titanaugite
88	18	Immiscibility textures in melteigite
89	19	Basic residua vug in melteigite
90	20	Melanite "wetting" textures
90	21	Interstitial melanite
91	22	Basic residua globule in nepheline
92	23	Calcite/cancrinite in urtite
93	24	Silicocarbonatite dikes
94	25	Red and buff carbonatites
95	26	Carbon/tetranatrolite flow banding in silicocarbonatite

List of Figures continued

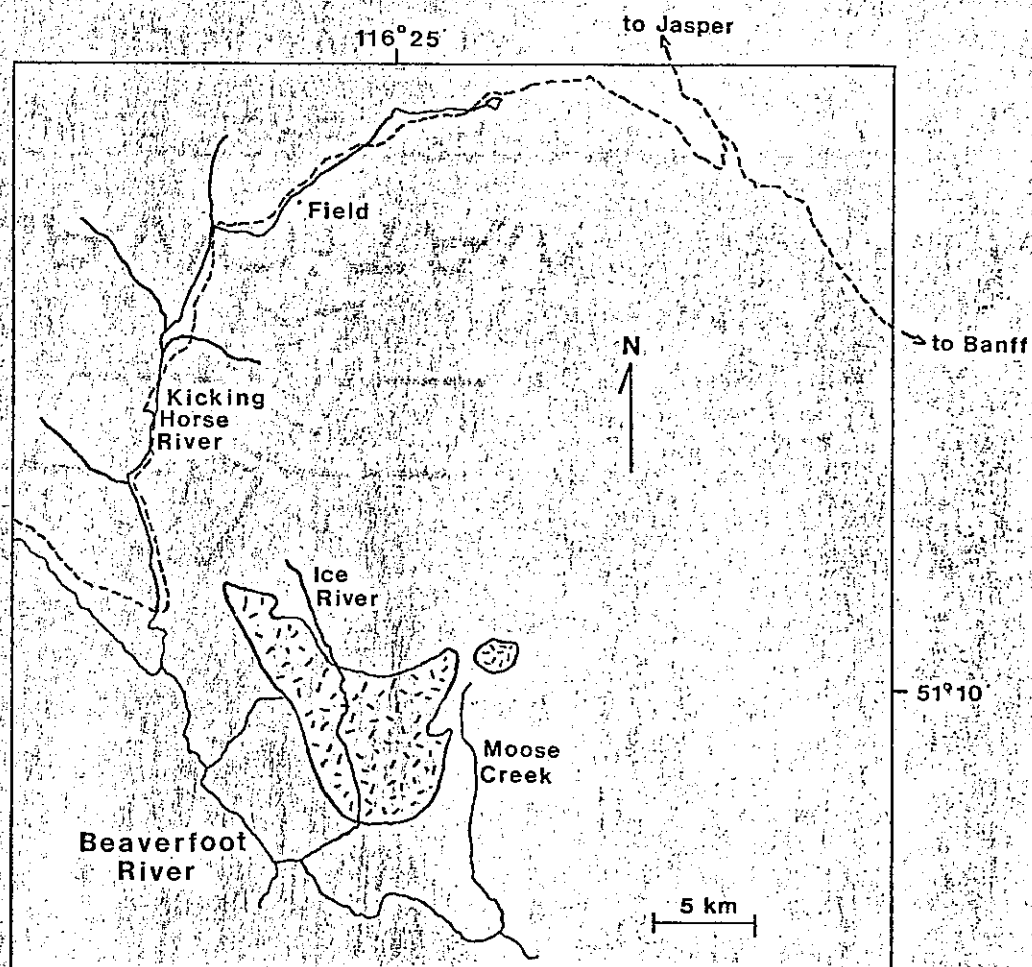
Page	Figure	Description
96	27	Berthierine globules in calcite
97	28	Berthierine globules (interstitial)
98	29	Natrolite in silicocarbonatite
99	30	Jacupirangite breccia
100	31	Idiomorphism in jacupirangite
101	32	Syenite breccia, Buttress Peak
102	33	Syenite breccia, Buttress Peak
103	34	Syenite breccia, Aquila Ridge
104	35	Ocellar amphibole jacupirangite
105	36	Lamprophyre dike
106	37	Euhedral perovskite in phlogopite
107	38	Melanite in nepheline syenite
108	39	Variations in Si, Ti, Al, and Fe in oscillatorily zoned melanite
109	40	Pyroxene composition trends: Ca, Fe, Mg
110	41	Pyroxene composition trends: Na, Al, Ti

List of Tables

Page	Table	Description
111-112	1	Sample list
113	2	Magnetite analyses
114	3	Magnetite analyses corrected for Fe_2O_3
115-116	4	Perovskite analyses
117-118	5	Garnet analyses
119-120	6	Melanite and schorlomite structural formulae
121	7	Biotite analyses
122-125	8	Pyroxene analyses
126-129	9	Pyroxene formulae
130	10	Amphibole analyses
131	11	Nepheline analyses
132	12	Miscellaneous analyses
133	13	Densities of selected samples

Figure 1

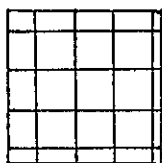
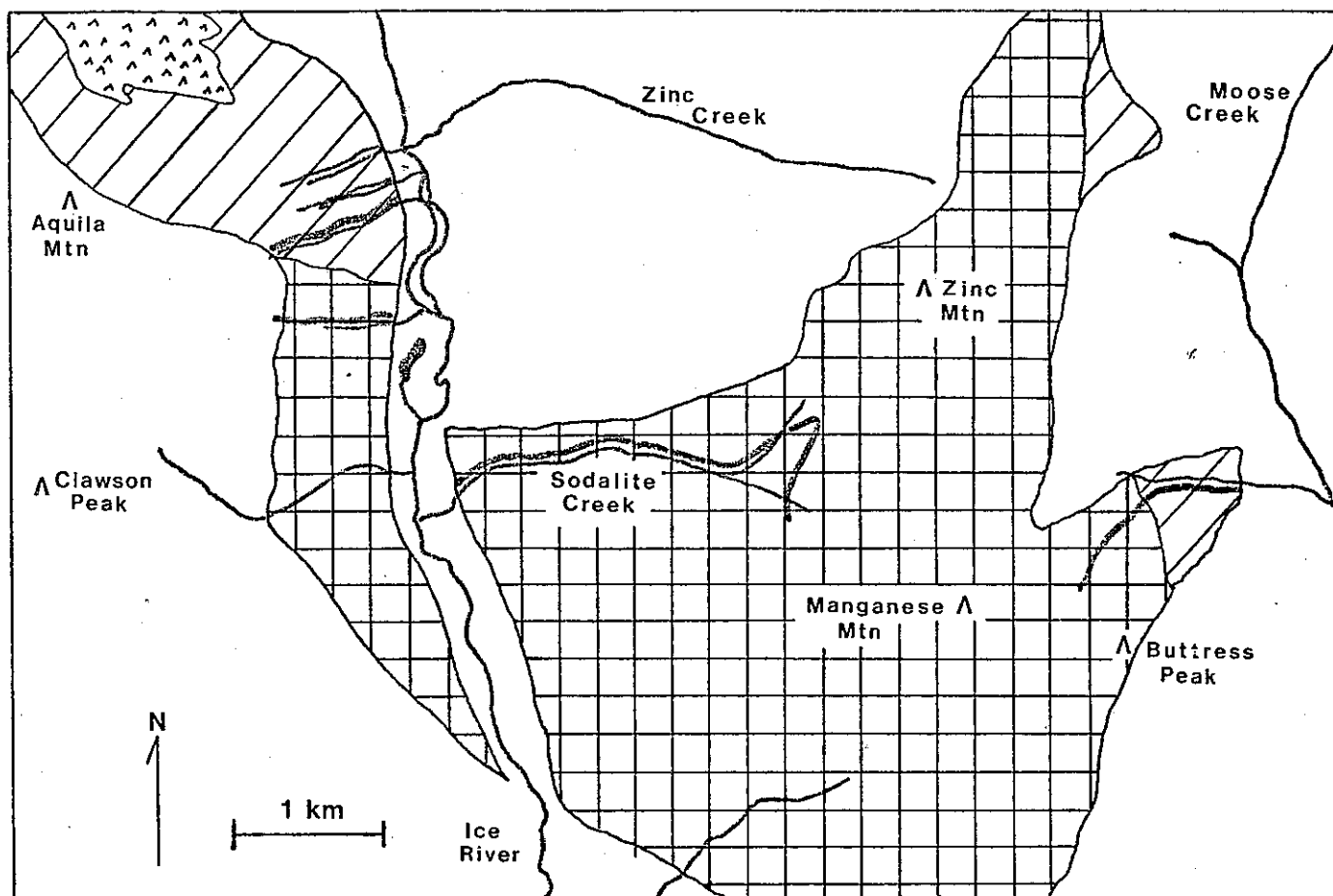
Location of the Ice River Complex



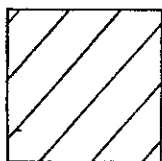
Extent of igneous rock

Figure 2

Traverse Locations



Syenitic Rocks



Ultramafic Rocks

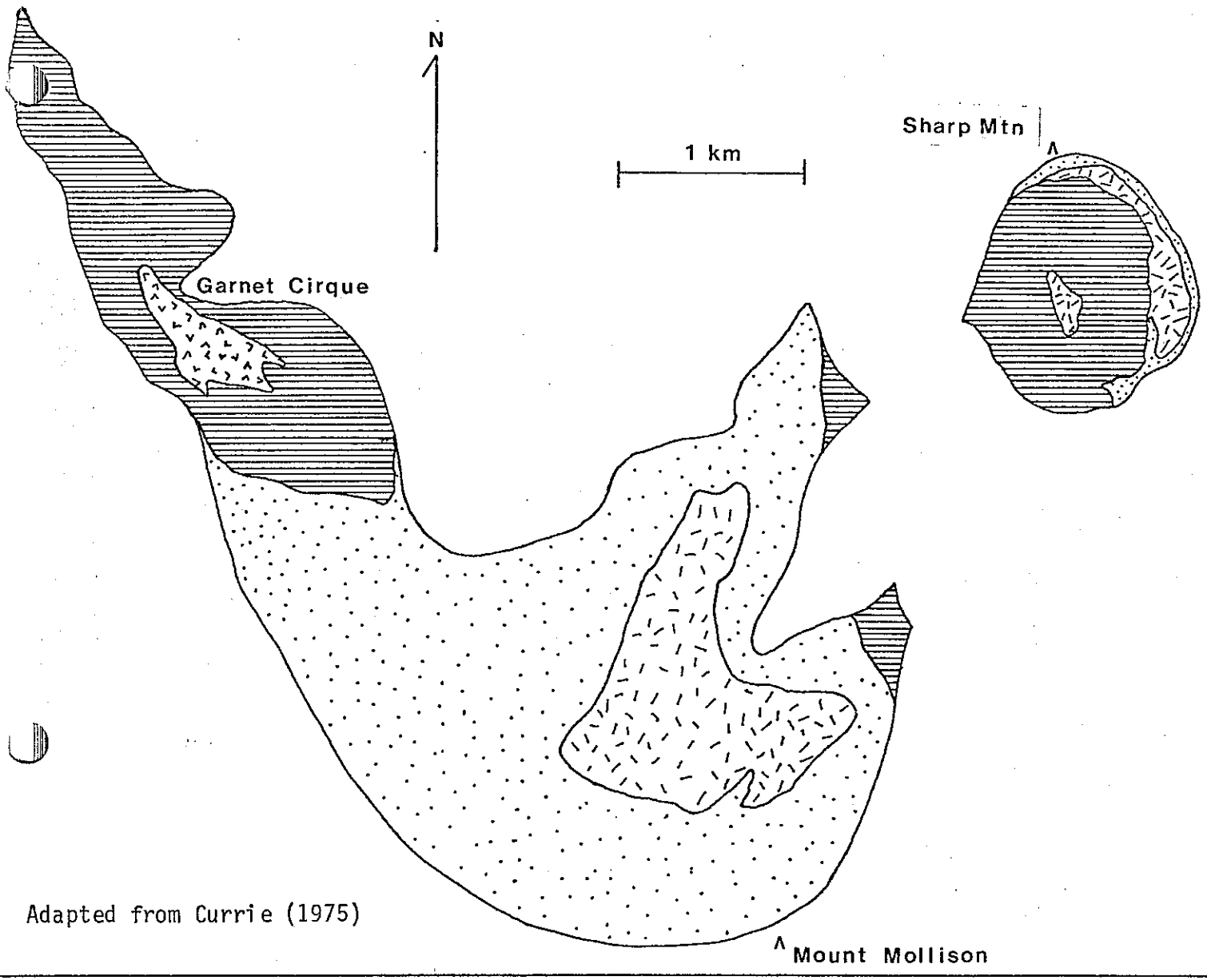


Carbonatite



Traverse

Geology adapted from
Currie (1975) with
simplifications.



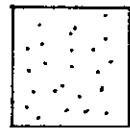
Adapted from Currie (1975)

Figure 2A

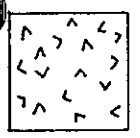
Geology of the Ice River Complex



ULTRAMAFIC ROCKS
Pyroxenite, ijolite,
and urtite



SYENITE BRECCIA
Mafic syenite inclusions
in leucocratic syenite



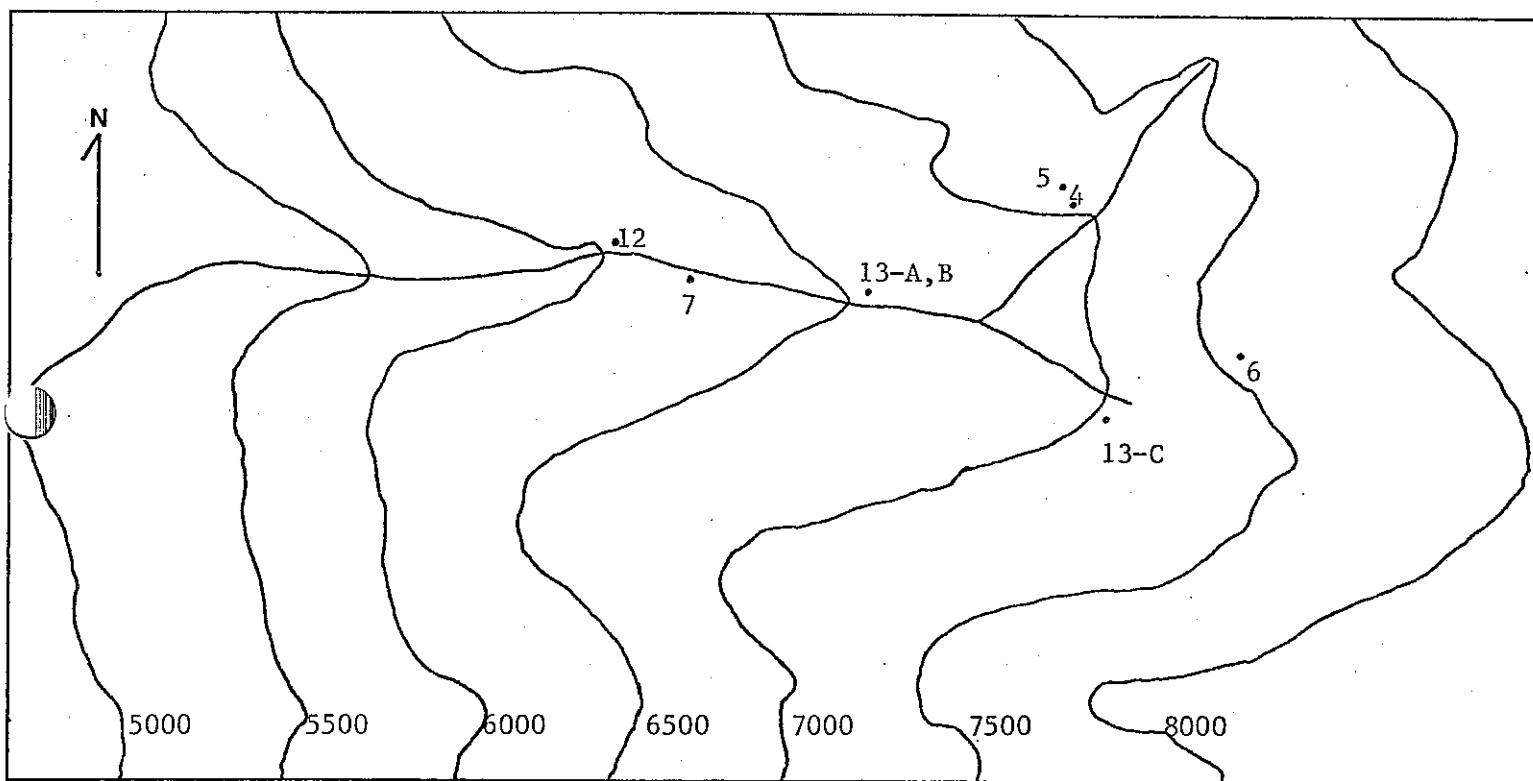
Carbonatite



LEUCOCRATIC SYENITE
Nepheline and sodalite syenite

Figure 4

Sample Locations: Sodalite Creek



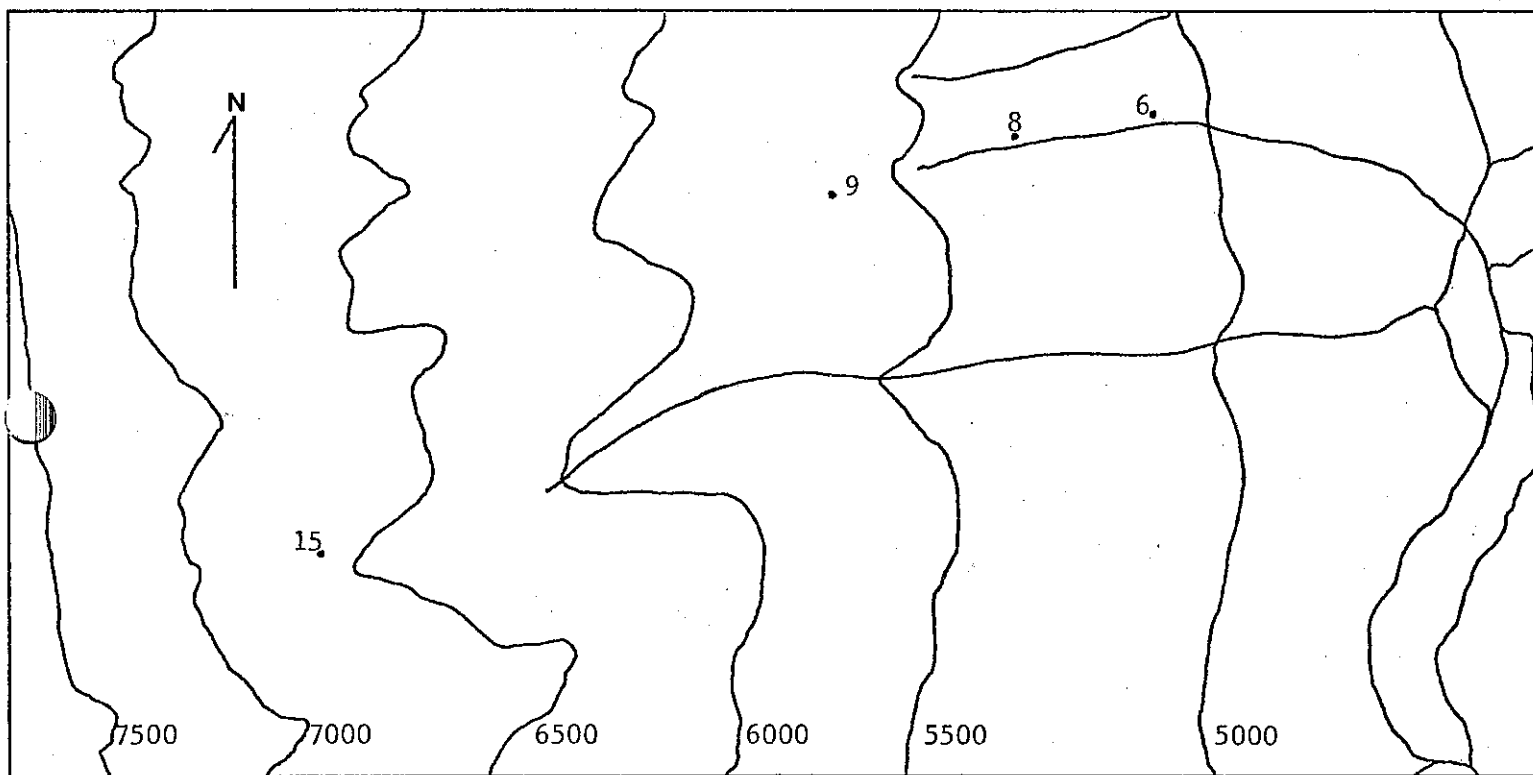
1 cm = 100 m

Altitudes are in feet

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

Figure 5

Sample Locations: Aquila Ridge, 1981



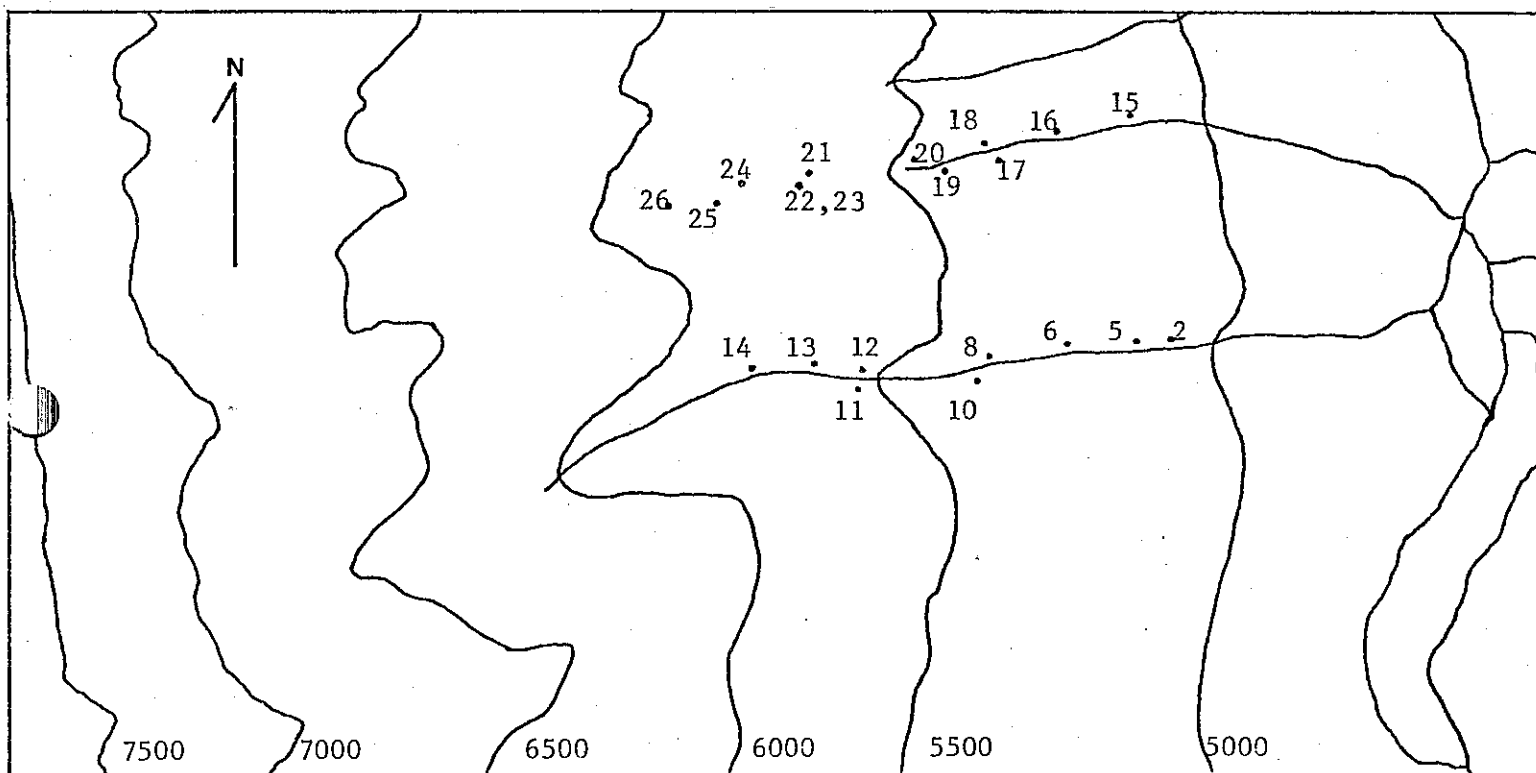
1 cm = 100 m

Altitudes are in feet

All samples are 81-IR

Figure 6

Sample Locations: Aquila Ridge, 1982

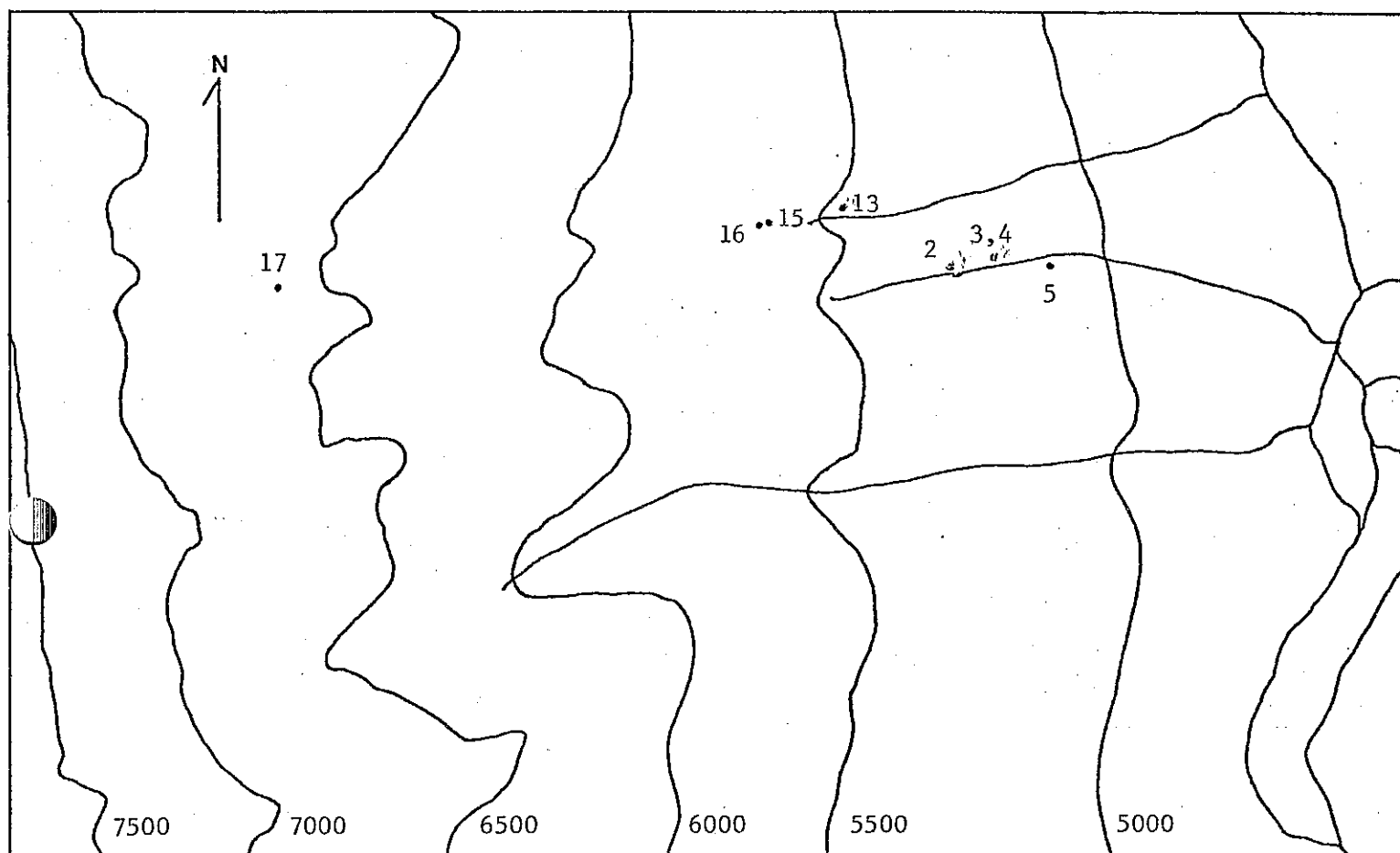
1 cm $\approx$ 100 m

Altitudes are in feet

All samples are 82-IR.

Figure 7

Sample Locations: Aquila Ridge, 1983



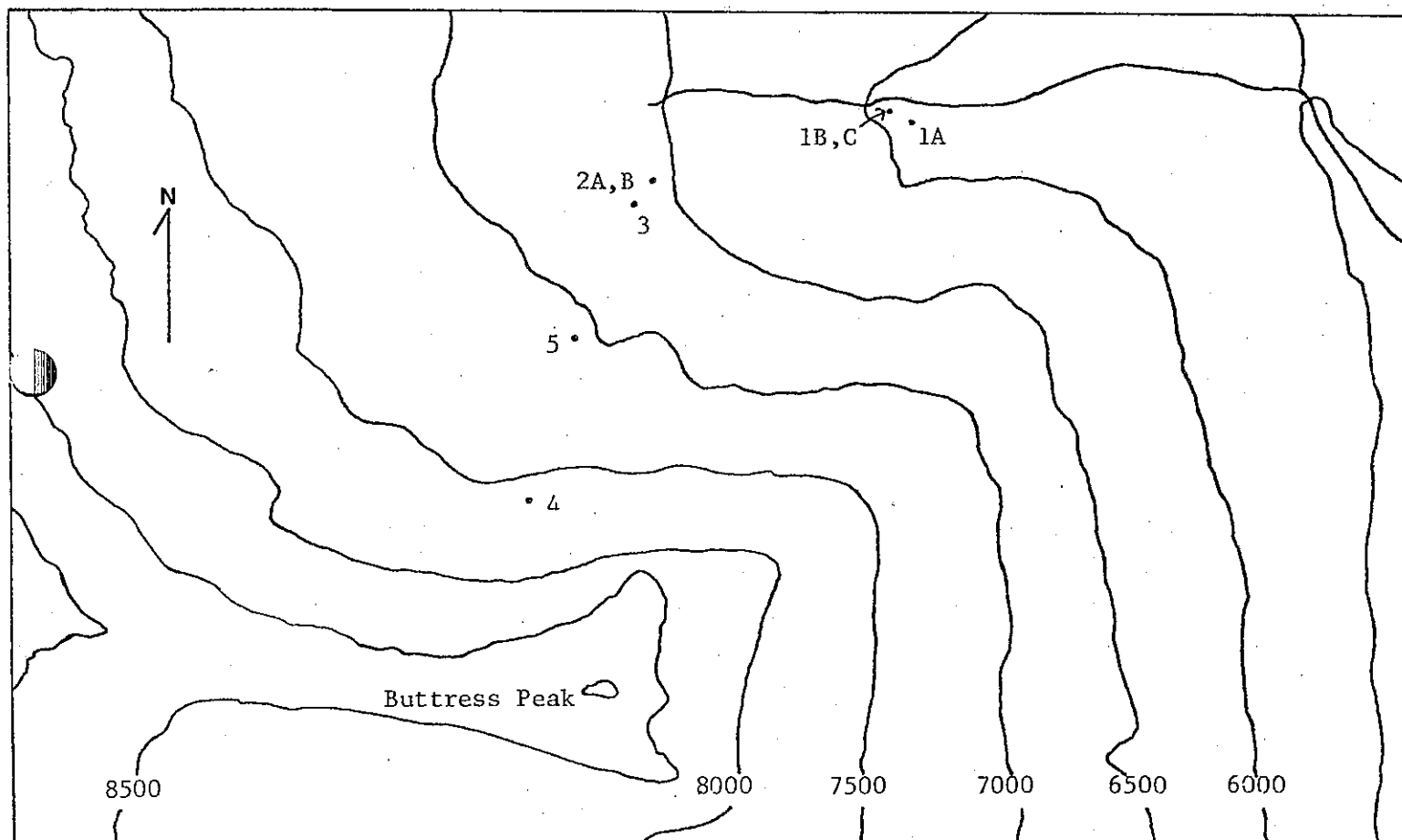
1 cm = 100 m

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.

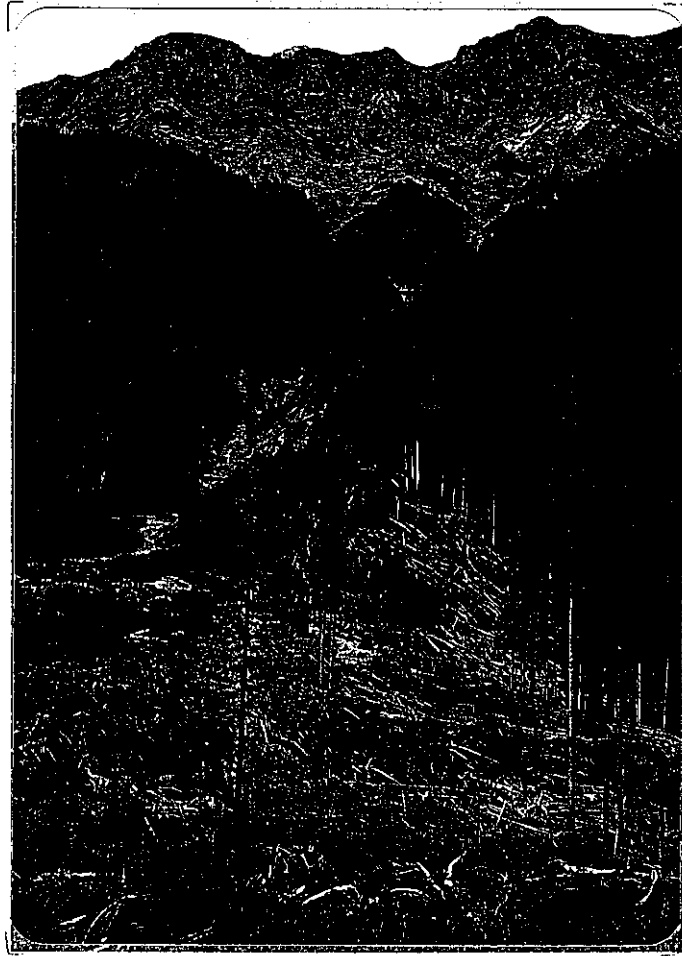


Figure 9

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.