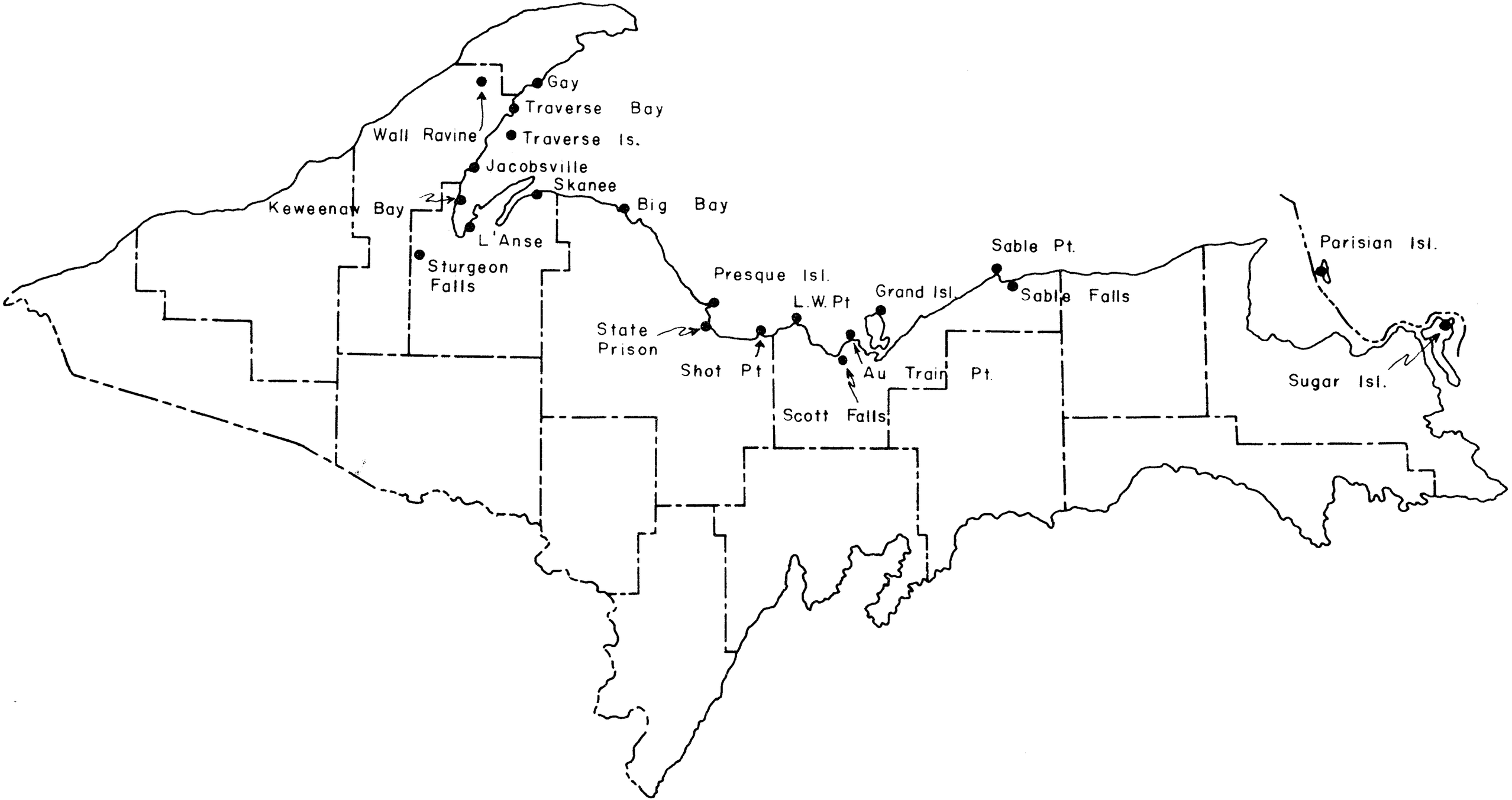
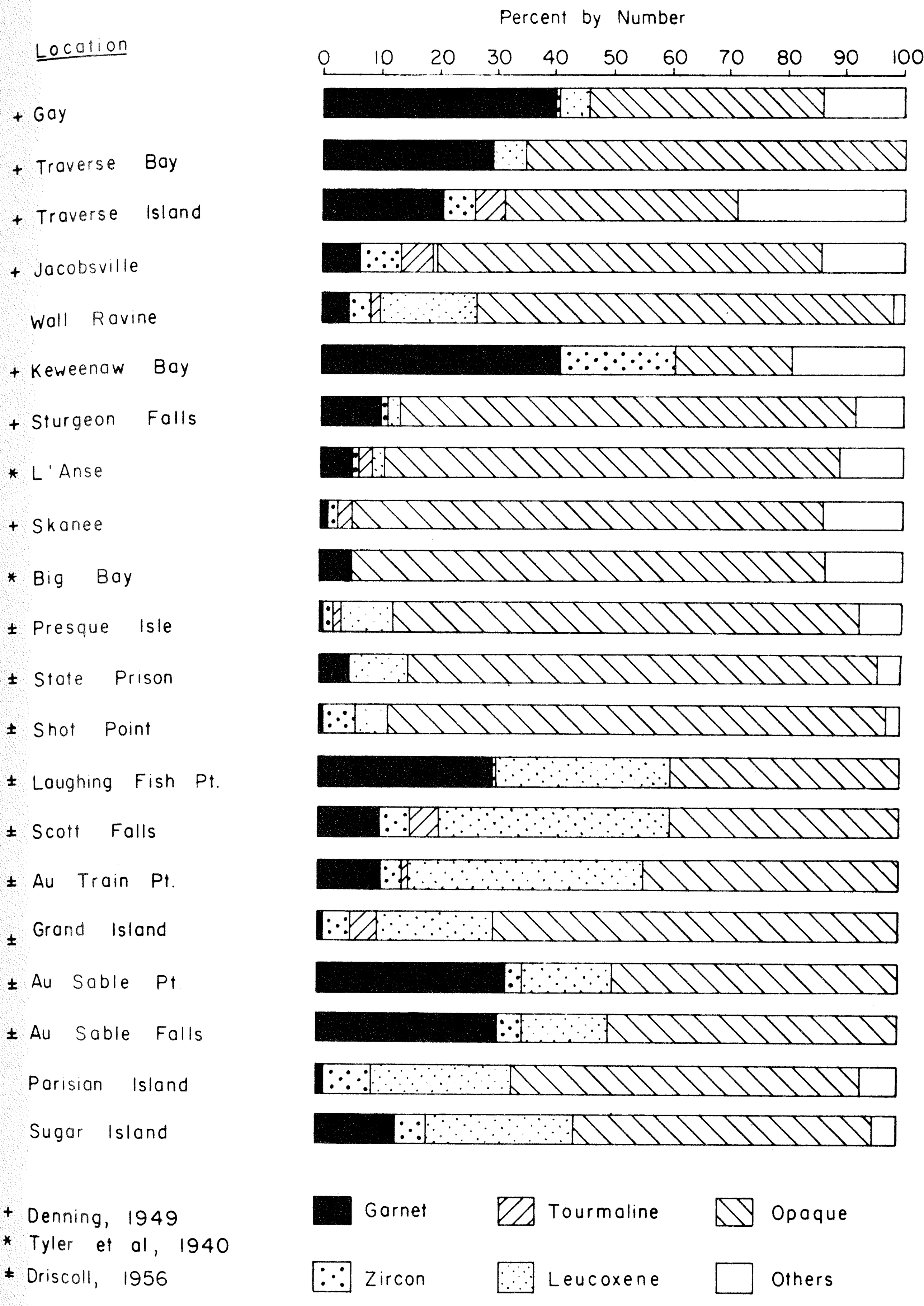
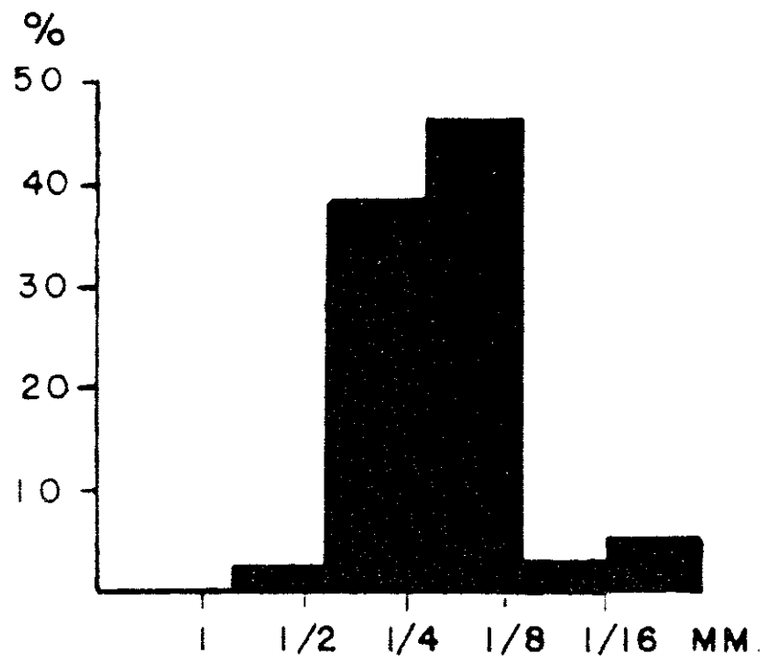
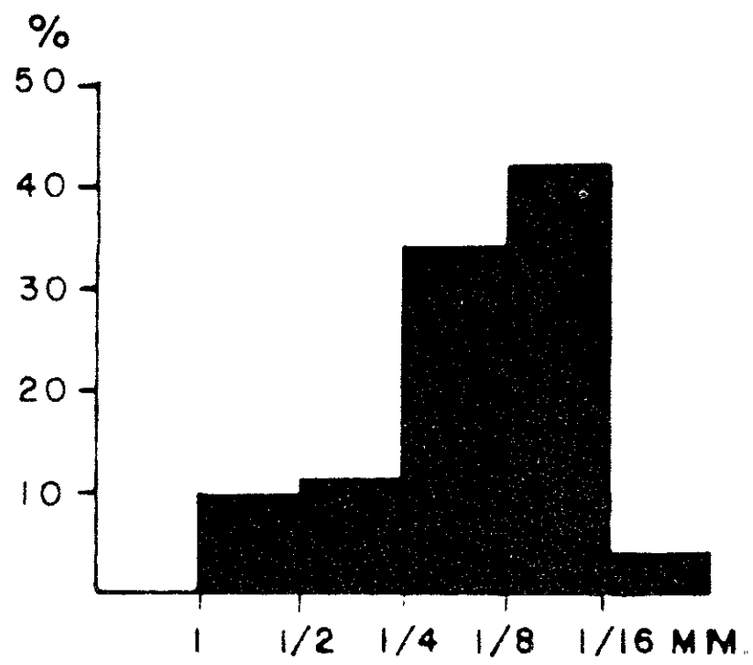

Gay
Traverse Bay
Wall Ravine
Traverse Is.
Jacobsville
Skanee
Keweenaw Bay
Big Bay
L'Anse
Sturgeon Falls
Presque Isl.
Sable Pt.
Parisian Isl.
L.W.Pt
Grand Isl.
Sable Falls
State Prison
Shot Pt
Au Train Pt.
Sugar Isl.
Scott Falls

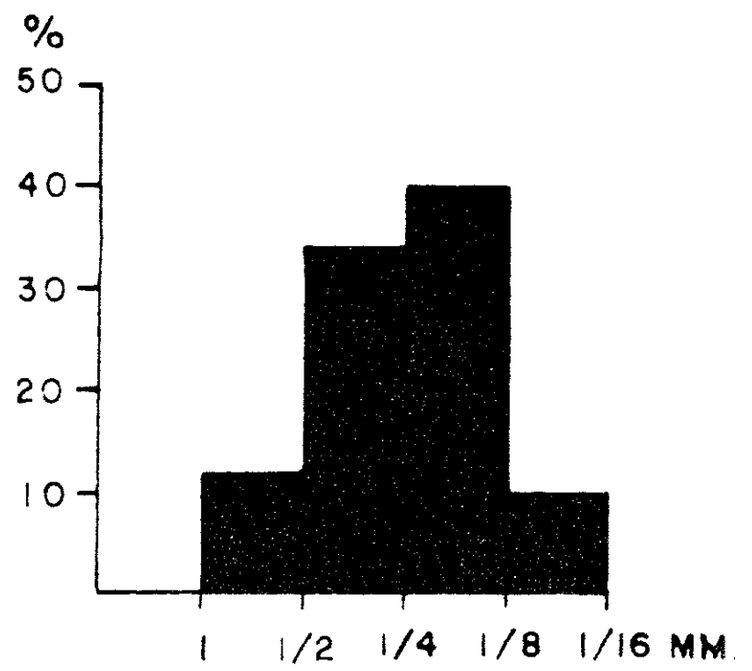

Location
Percent by Number
0
10
20
30
40
50
60
70
80
90
100
+ Gay
+ Traverse Bay
+ Traverse Island
+ Jacobsville
Wall Ravine
+ Keweenaw Bay
+ Sturgeon Falls
* L'Anse
+ Skanee
* Big Bay
± Presque Isle
± State Prison
± Shot Point
± Laughing Fish Pt.
± Scott Falls
± Au Train Pt.
± Grand Island
± Au Sable Pt.
± Au Sable Falls
Parisian Island
Sugar Island
+ Denning, 1949
* Tyler et al, 1940
± Driscoll, 1956
Garnet
Tourmaline
Opaque
Zircon
Leucoxene
Others



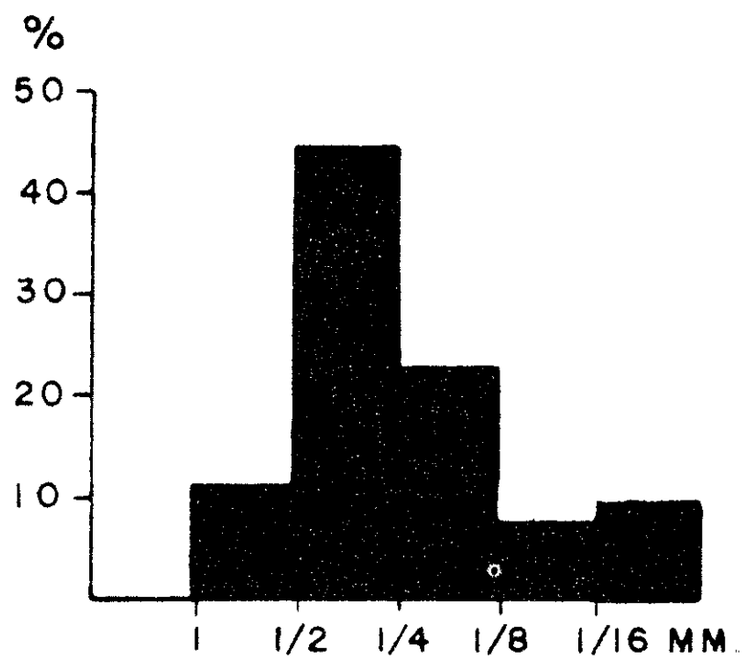
Wall Ravine



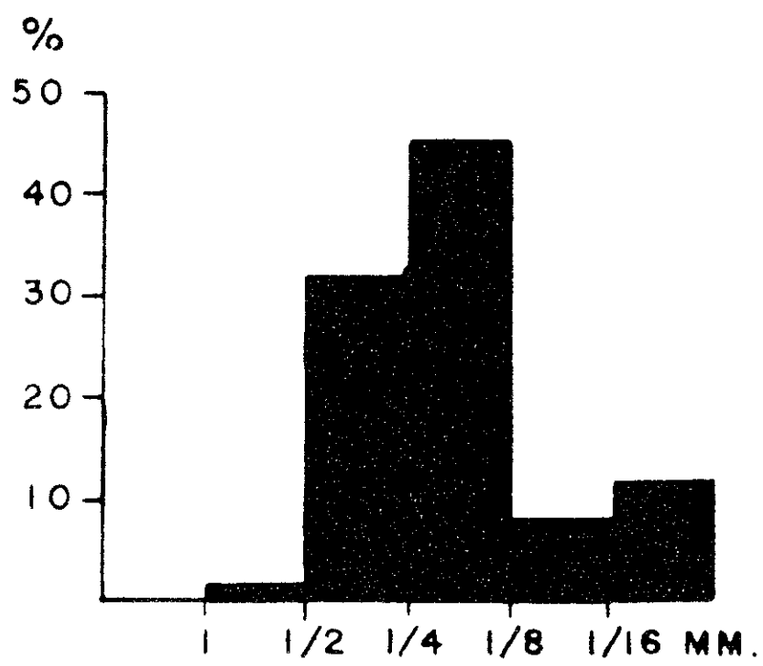
Jacobsville



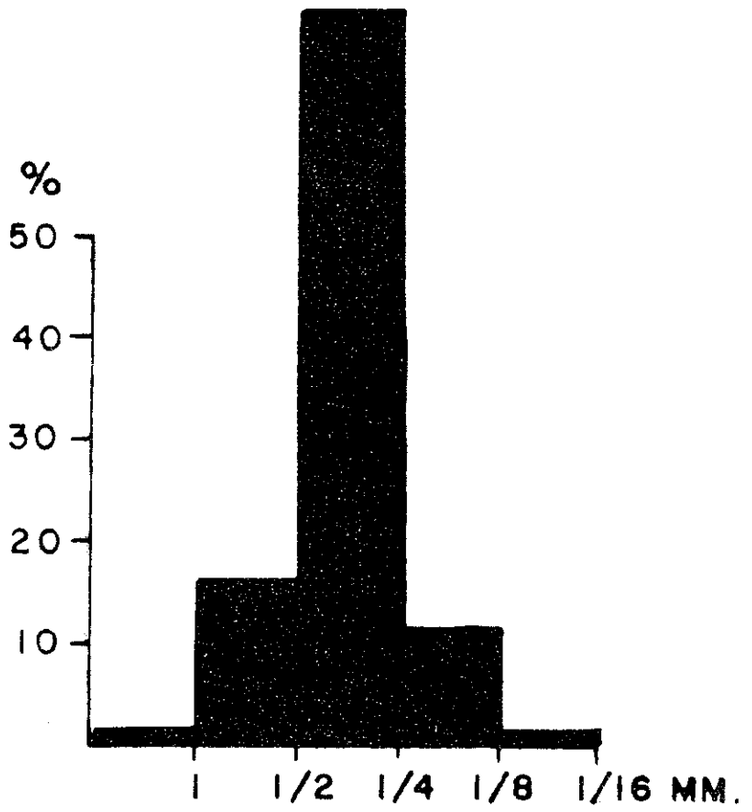
+ L' Anse



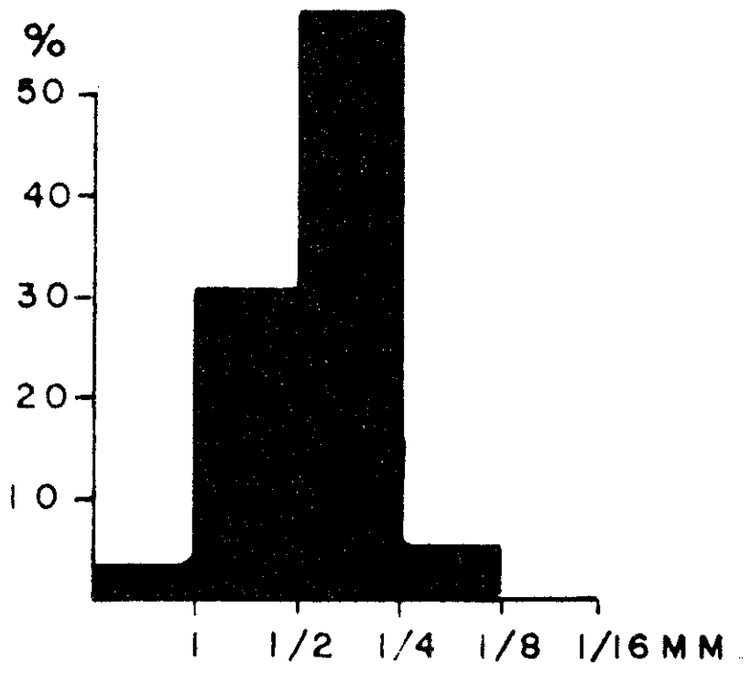
+ Shot Point



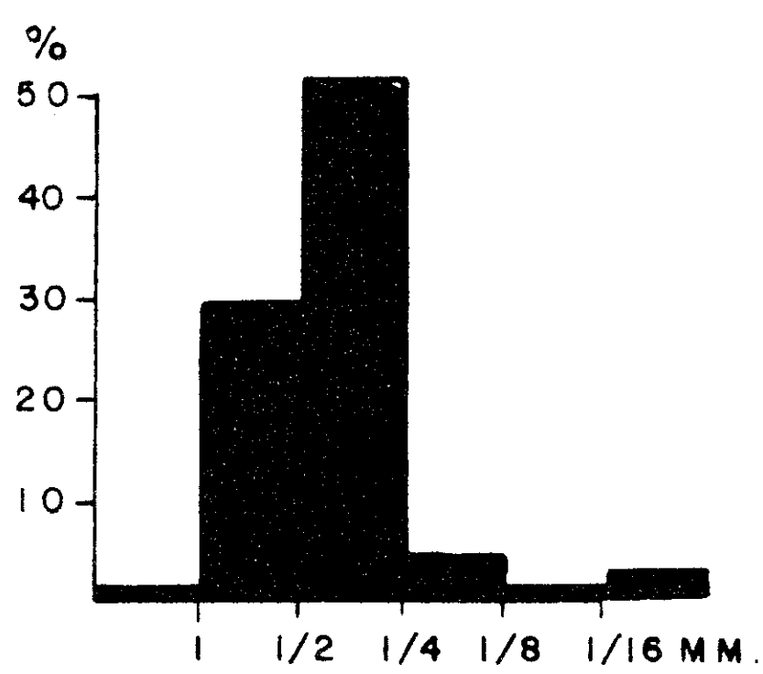
+ Laughing Fish Point



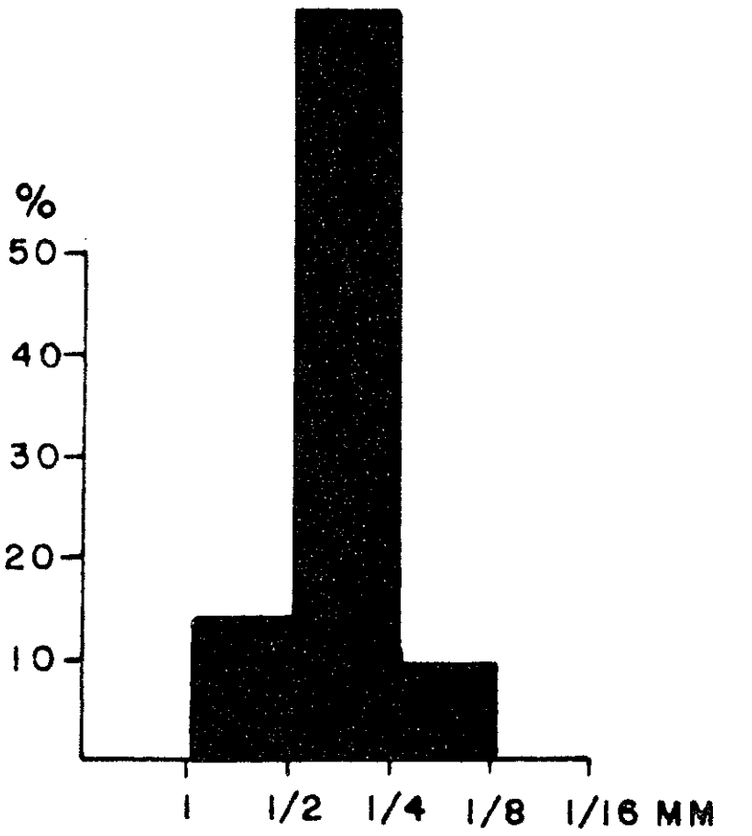
+ Scott Falls



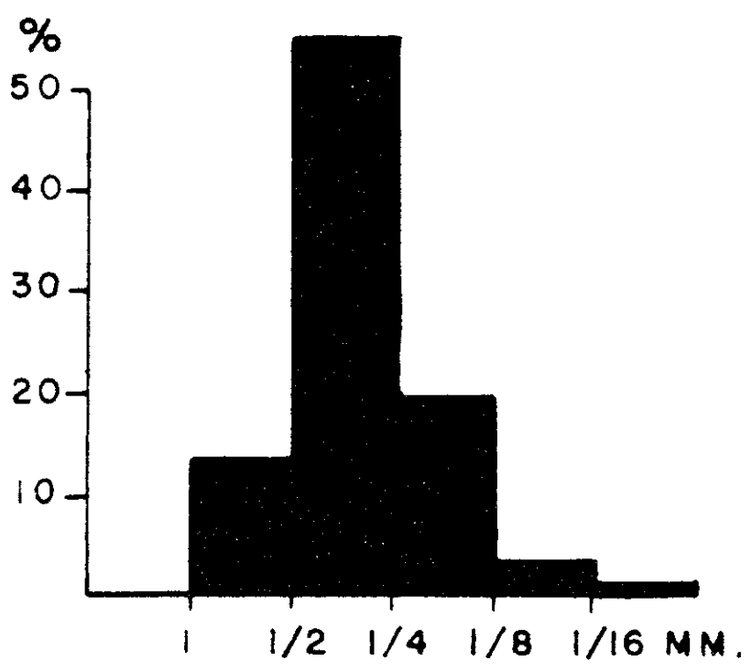
+ Au Train Point



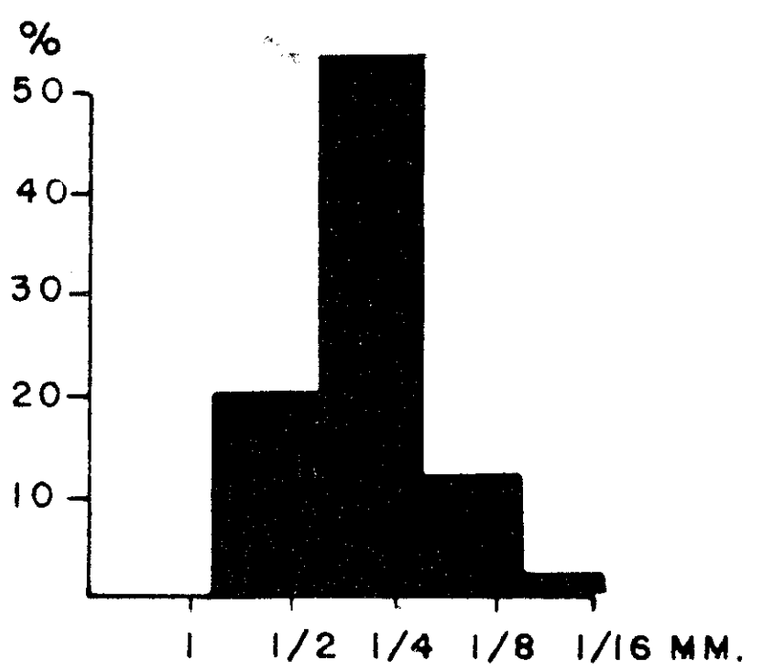
+ Grand Island



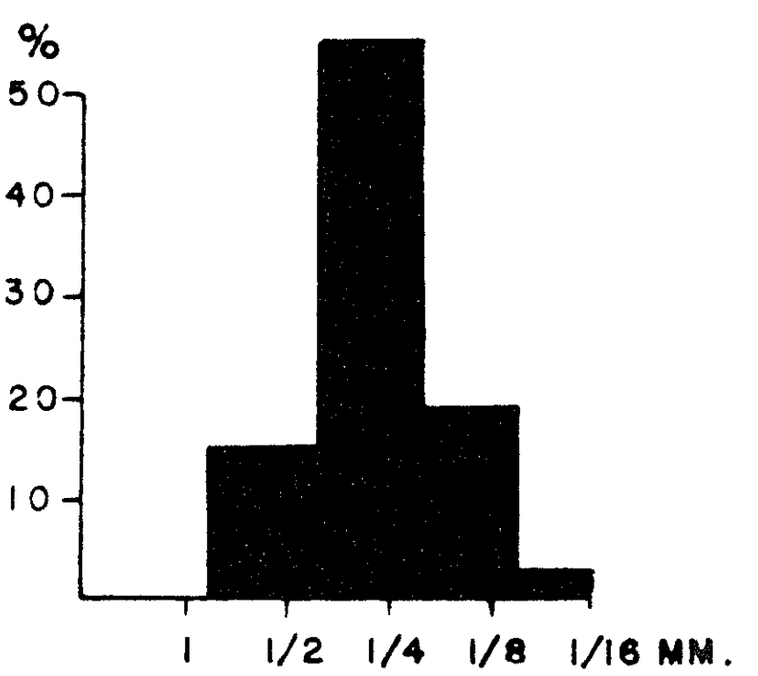
+ Au Sable Point



+ Au Sable Falls

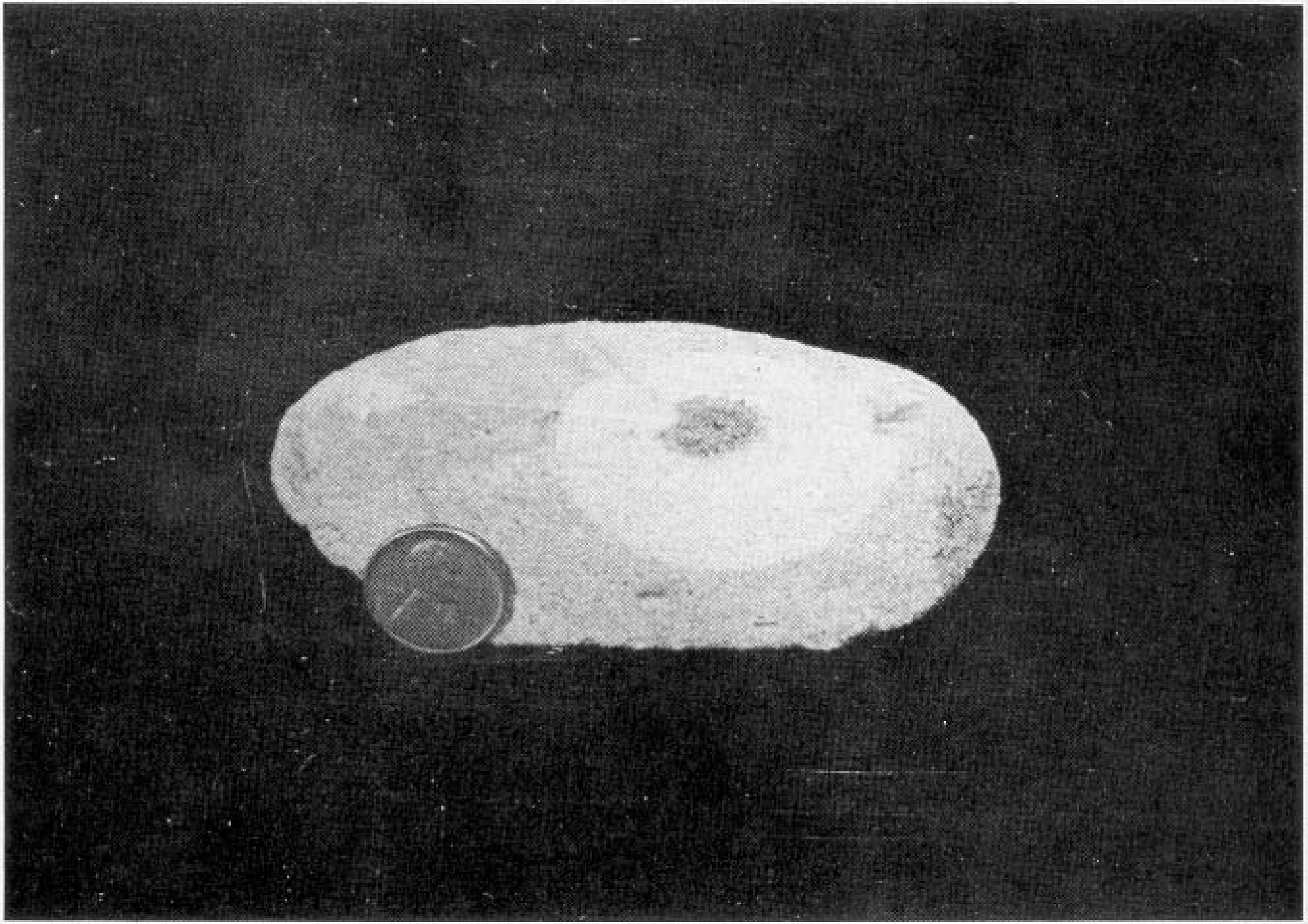


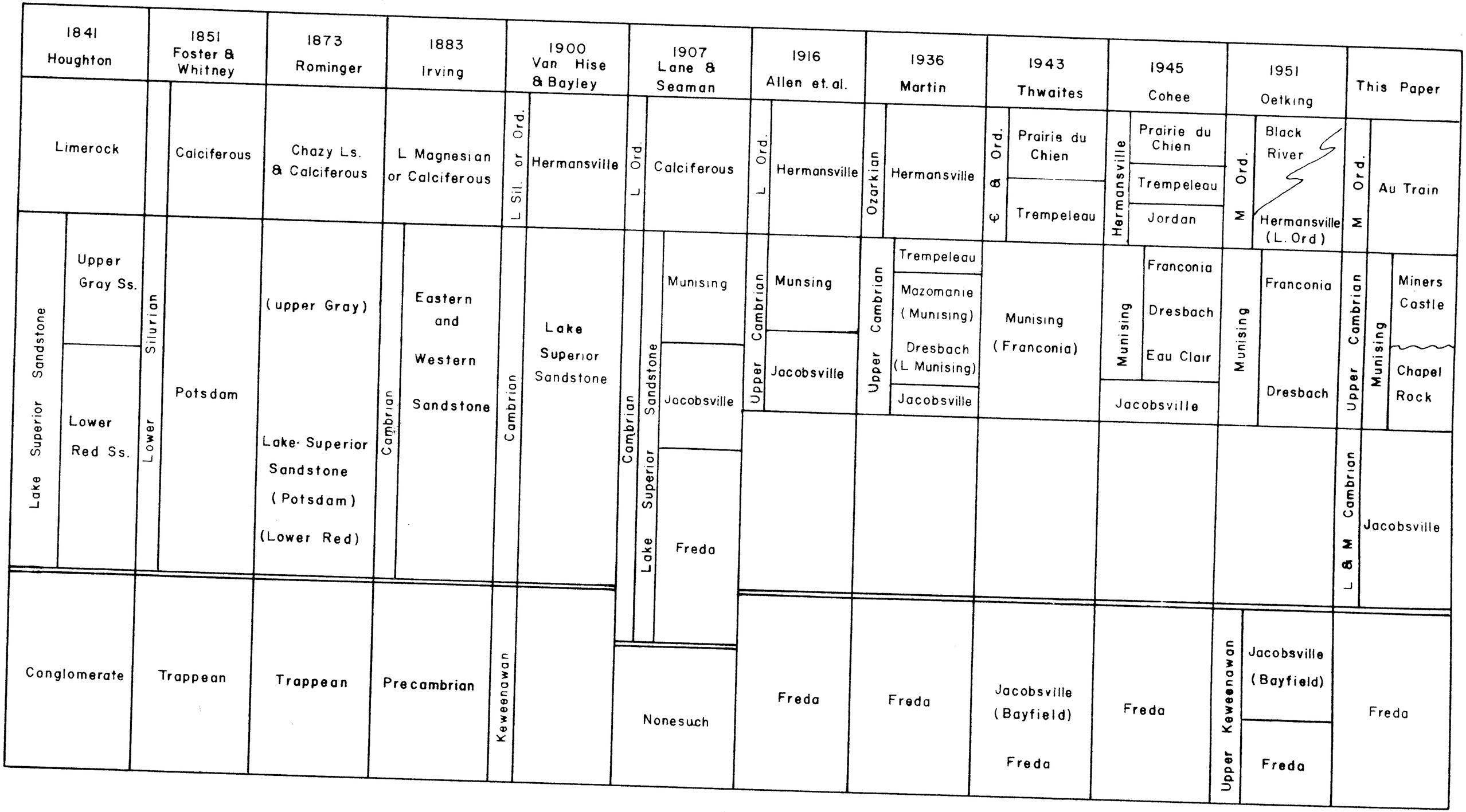
Sugar Island

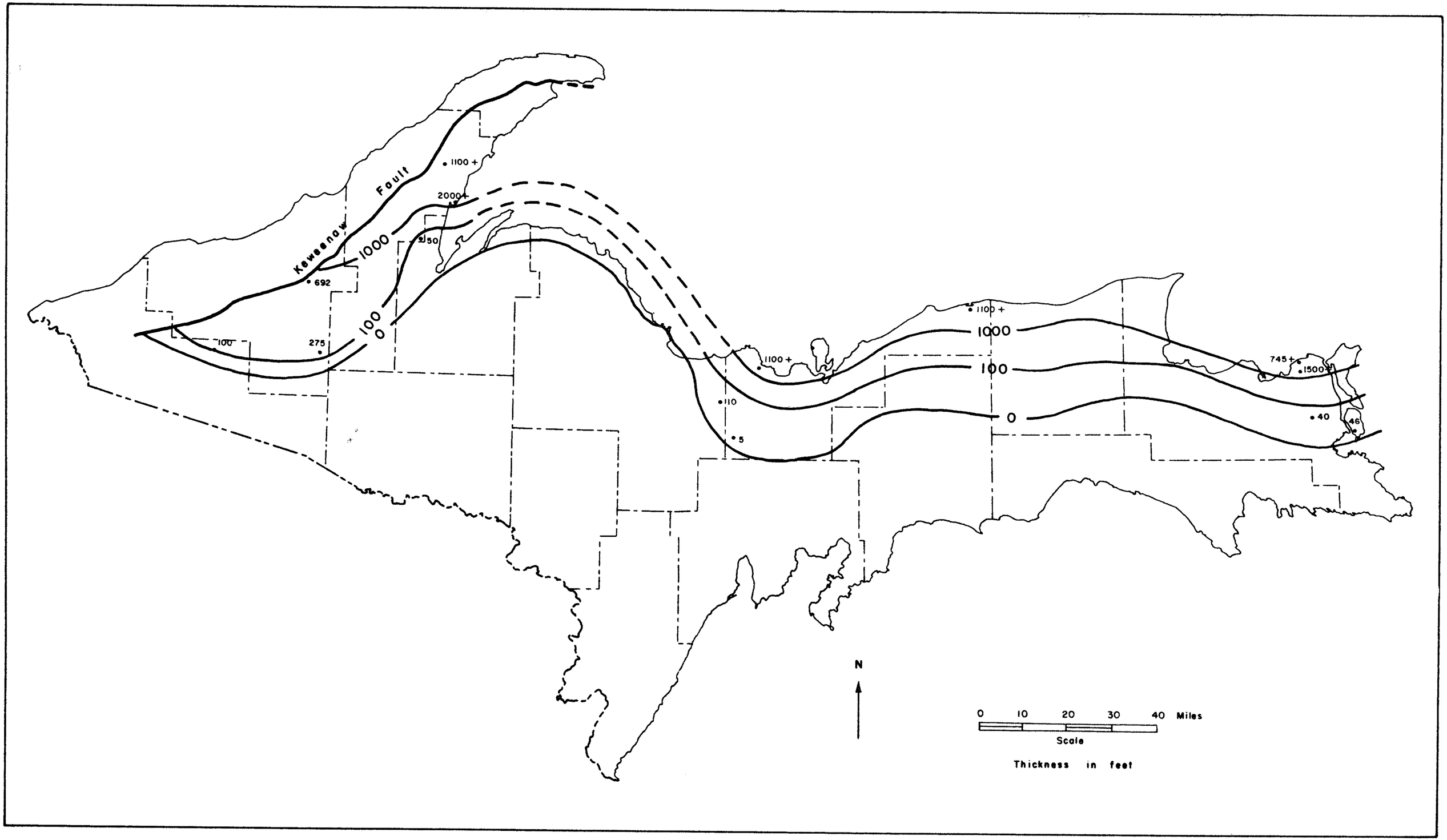


Parisian Island

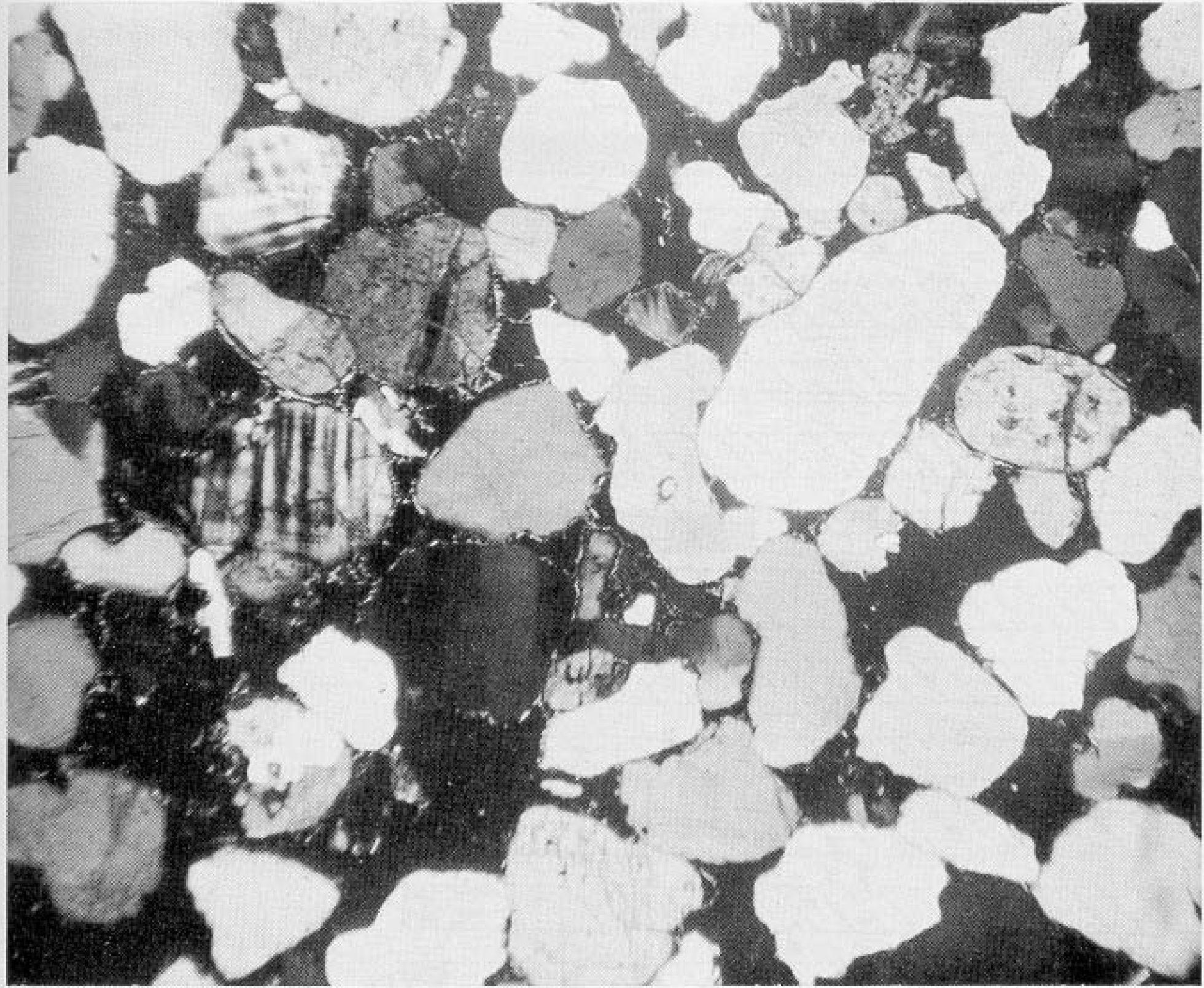
+ after Driscoll, (1956)

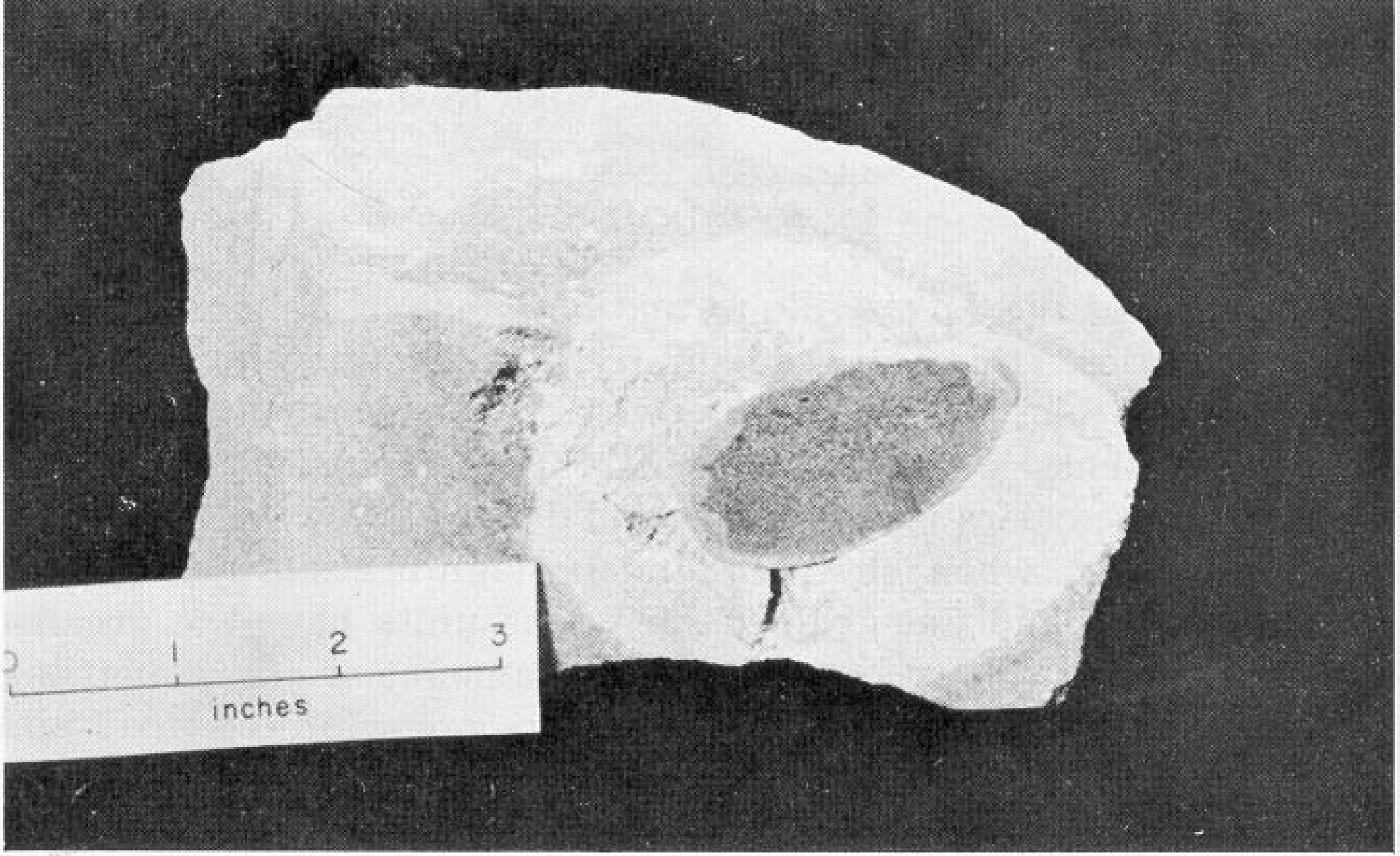


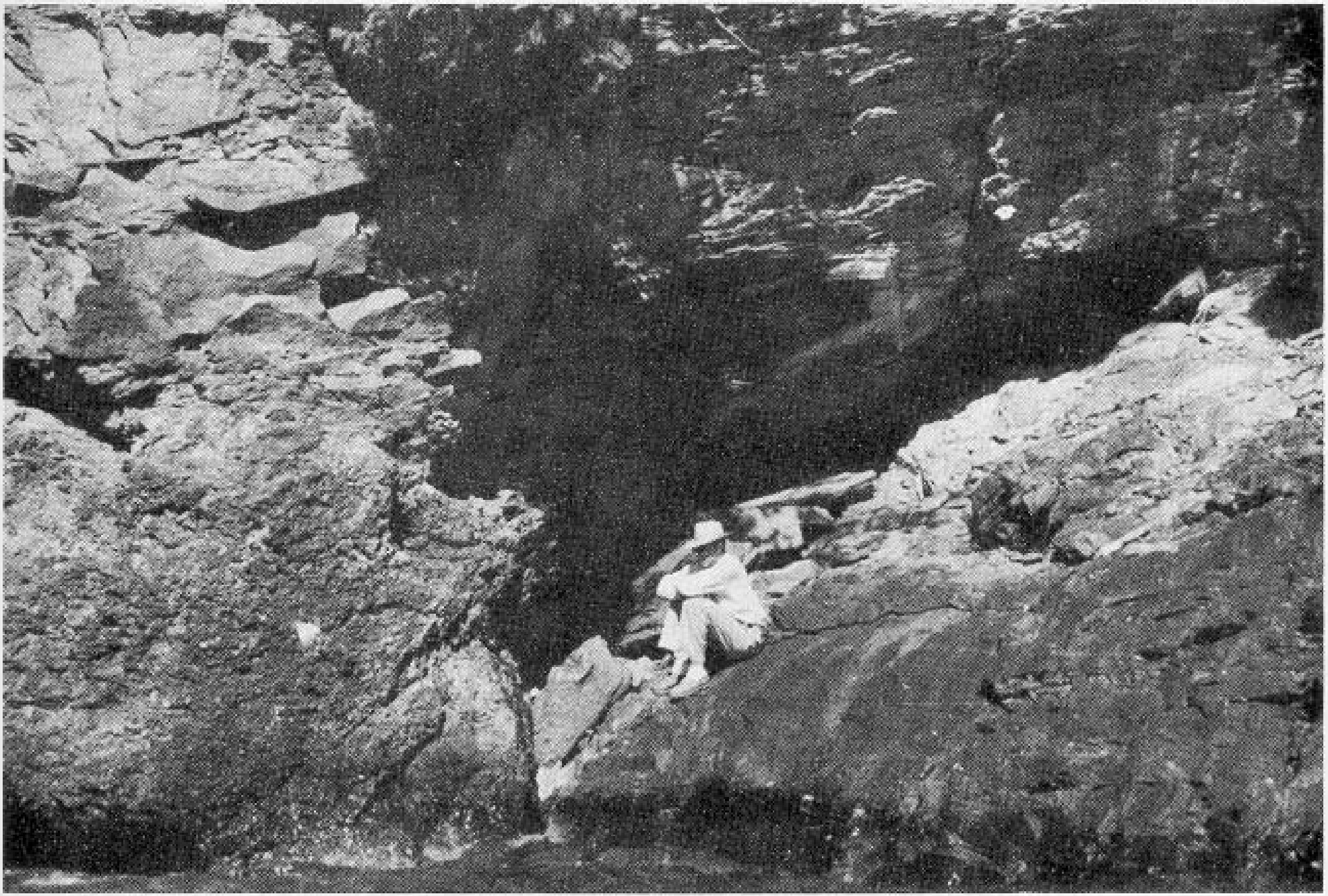

1841 Houghton
1851 Foster & Whitney
1873 Rominger
1883 Irving
1900 Van Hise & Bayley
1907 Lane & Seaman
1916 Allen et. al.
1936 Martin
1943 Thwaites
1945 Cohee
1951 Oetking
This Paper
Limerock
Calciferous
Chazy Ls. & Calciferous
L Magnesian or Calciferous
L Sil. or Ord.
Hermansville
L Ord.
Calciferous
L Ord.
Hermansville
Ozarkian
Hermansville
€ & Ord.
Prairie du Chien
Trempeleau
Hermansville
Prairie du Chien
Trempeleau
Jordan
M Ord.
Black River
Hermansville (L. Ord)
M Ord.
Au Train
Lake Superior Sandstone
Upper Gray Ss.
Lower Red Ss.
Silurian
Lower
Potsdam
(upper Gray)
Lake Superior Sandstone (Potsdam)
(Lower Red)
Cambrian
Eastern and Western Sandstone
Cambrian
Lake Superior Sandstone
Munising
Jacobsville
Freda
Upper Cambrian
Munsing
Jacobsville
Upper Cambrian
Trempeleau
Mazomanie (Munising)
Dresbach (L Munising)
Jacobsville
Munising (Franconia)
Munising
Franconia
Dresbach
Eau Clair
Jacobsville
Munising
Franconia
Dresbach
Upper Cambrian
Munising
Miners Castle
Chapel Rock
L & M Cambrian
Jacobsville
Conglomerate
Trappean
Trappean
Precambrian
Keweenawan
Nonesuch
Freda
Freda
Jacobsville (Bayfield)
Freda
Freda
Upper Keweenawan
Jacobsville (Bayfield)
Freda
Freda

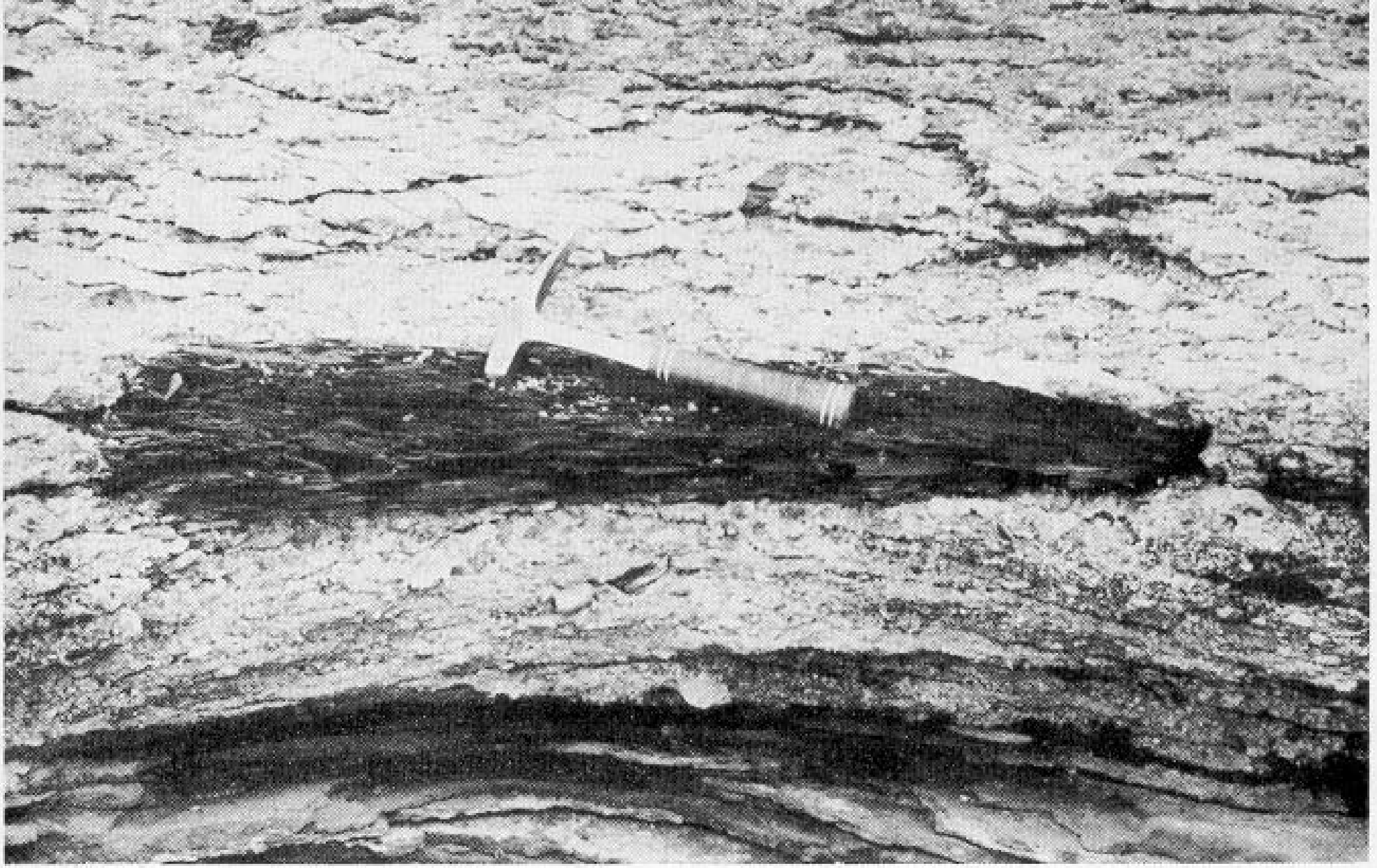


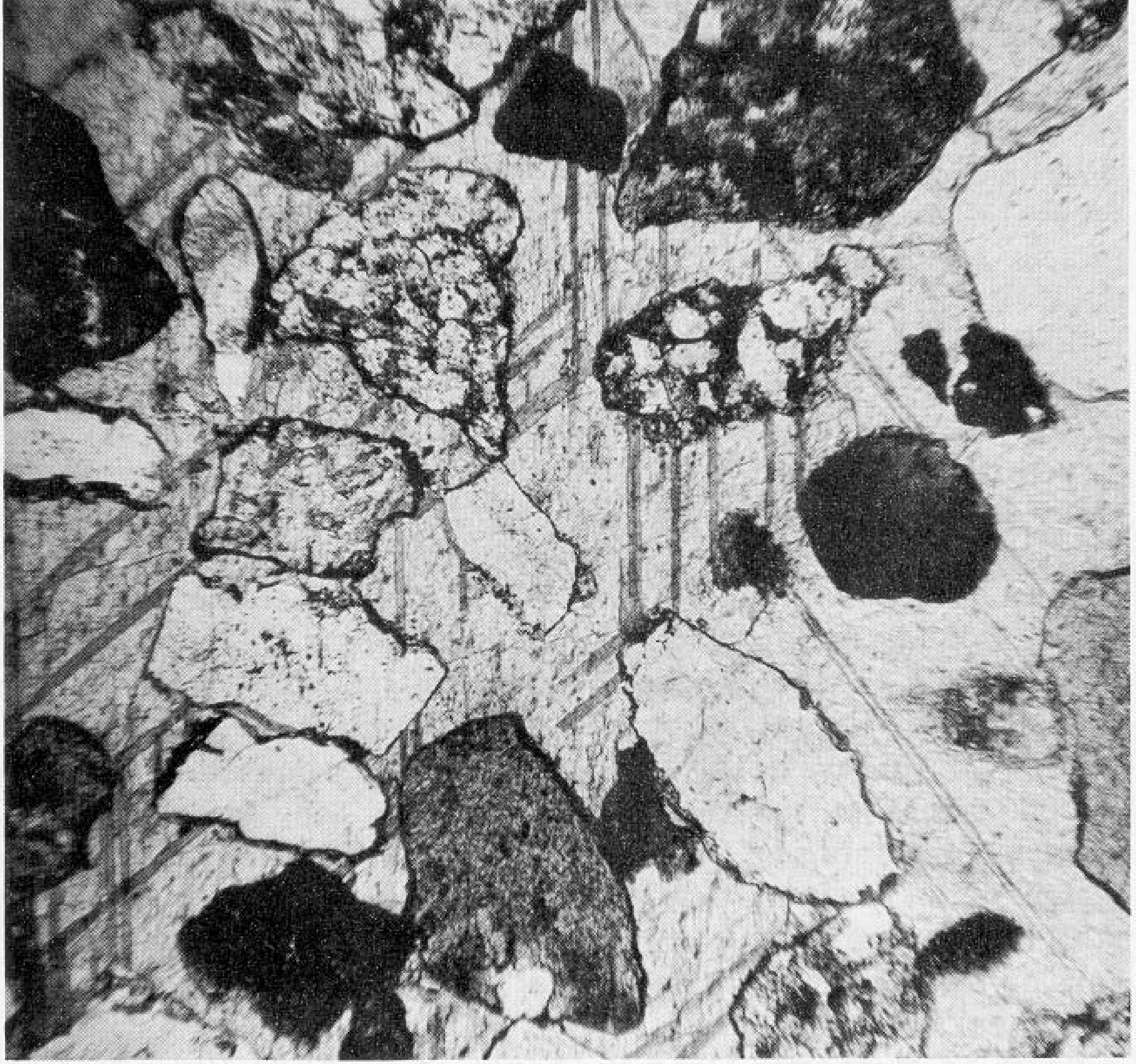
Keweenaw Fault
1000
100
0
1100 +
2000 +
150
692
100
275
1100 +
110
5
1100 +
1000
100
0
745 +
1500 +
40
46
N
0 10 20 30 40 Miles
Scale
Thickness in feet

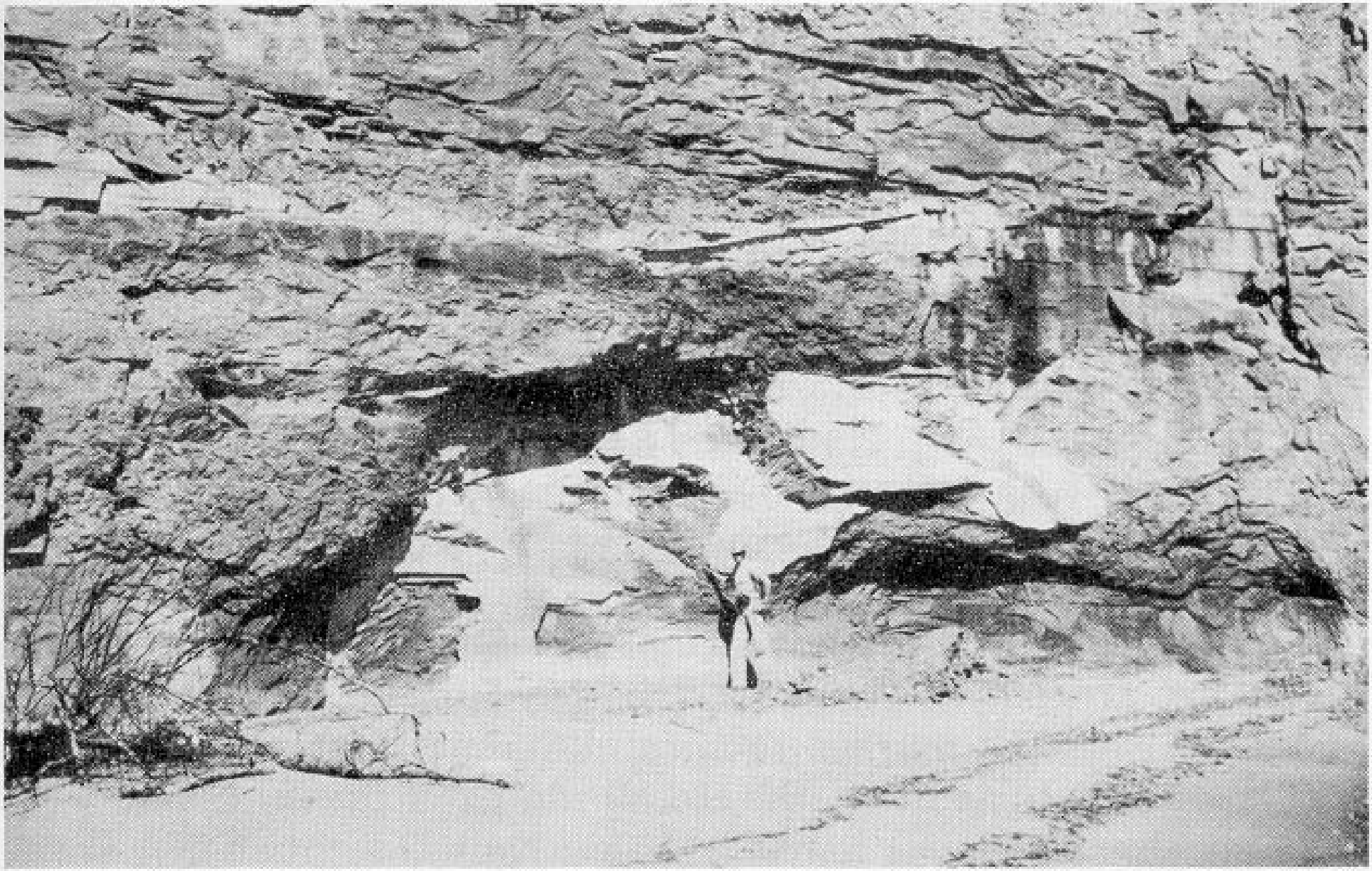


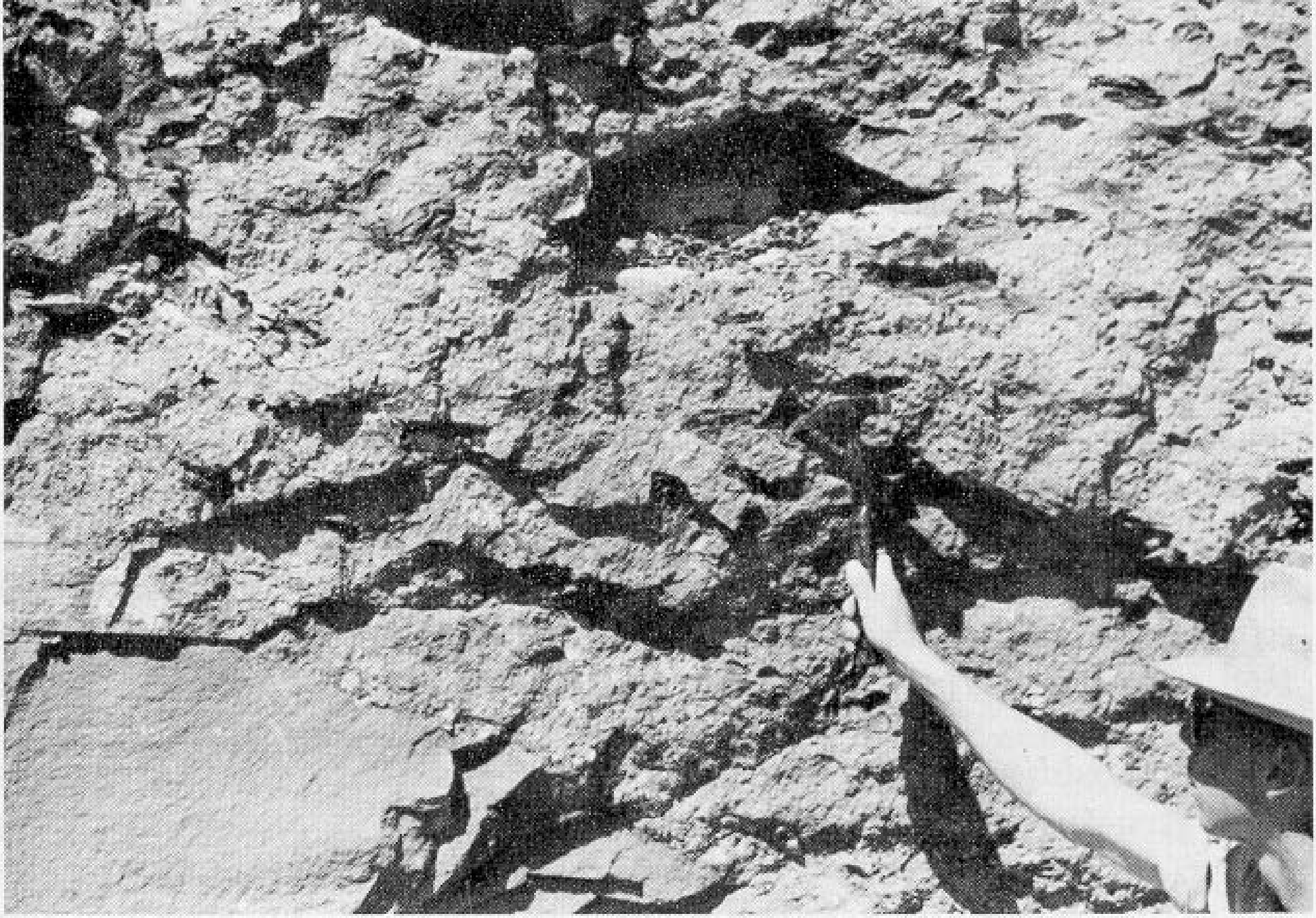

0
1
2
3
inches

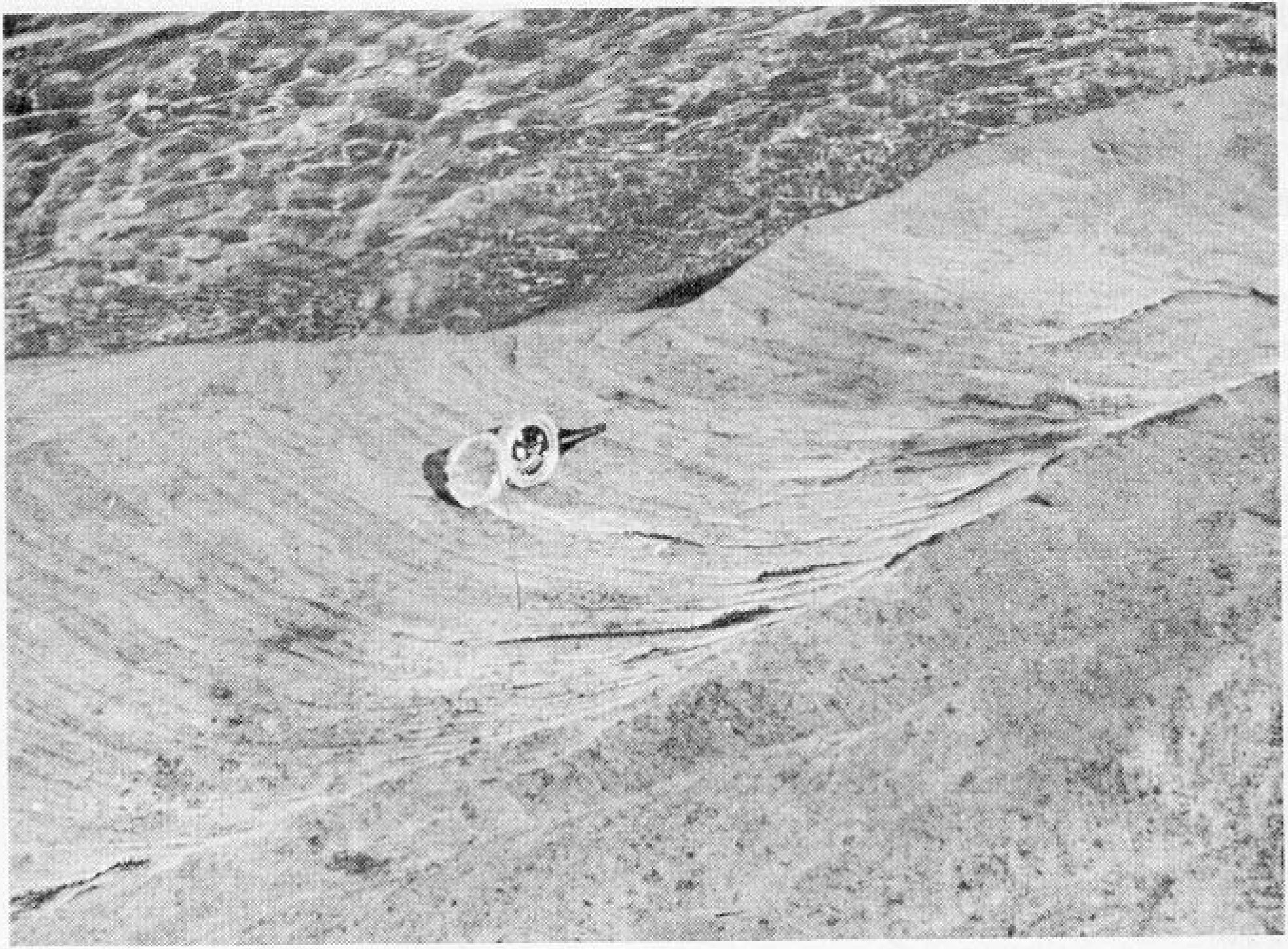


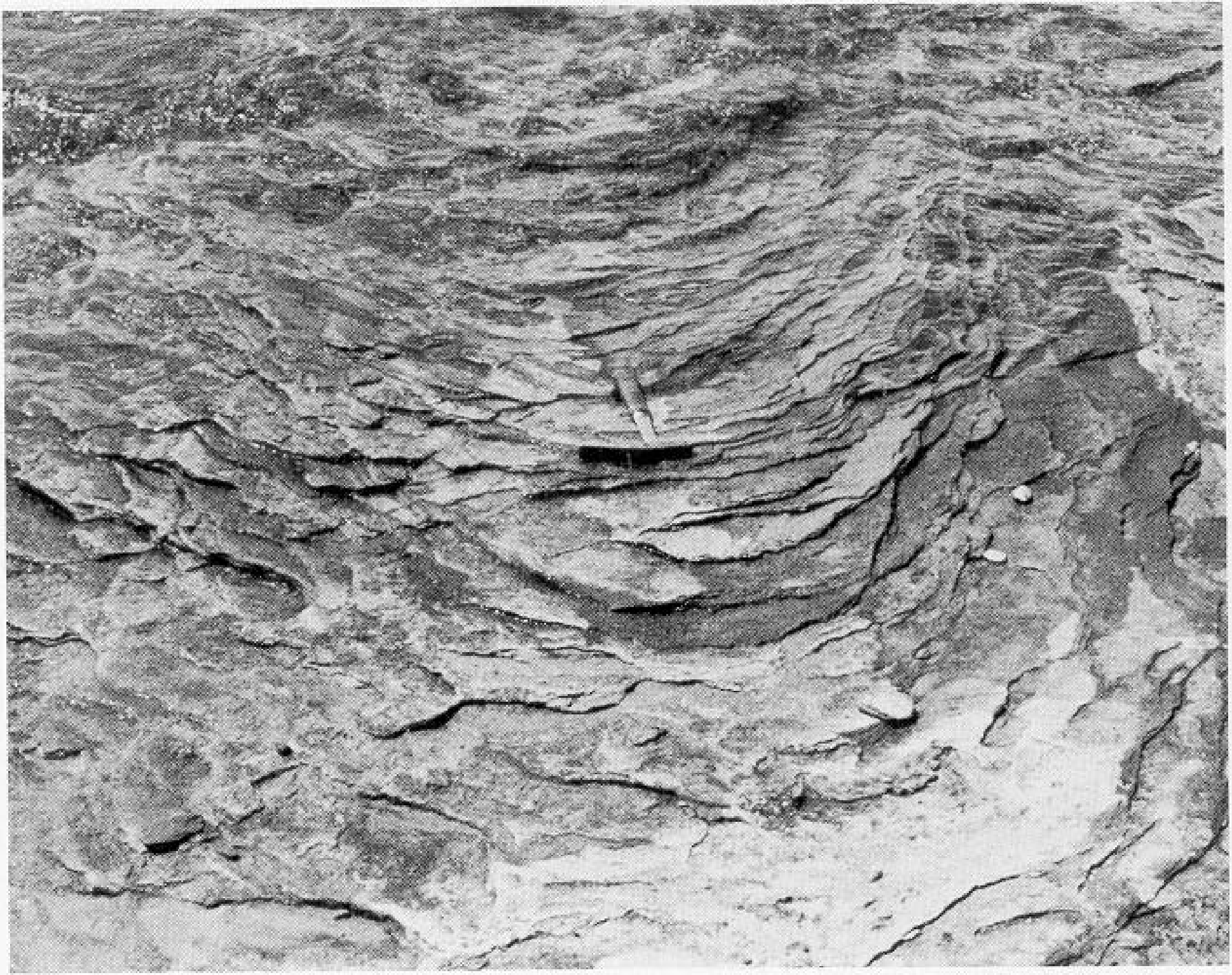


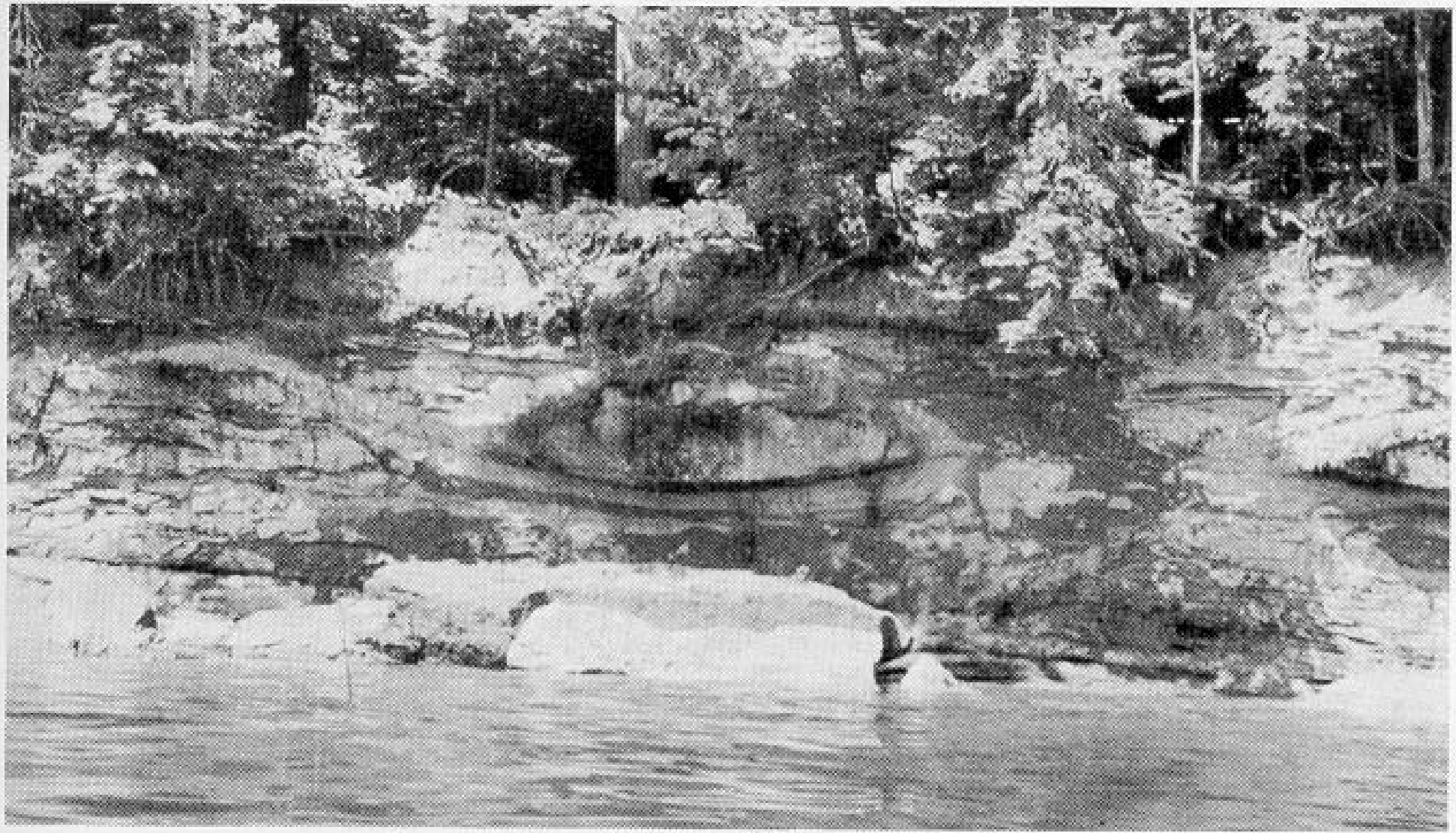


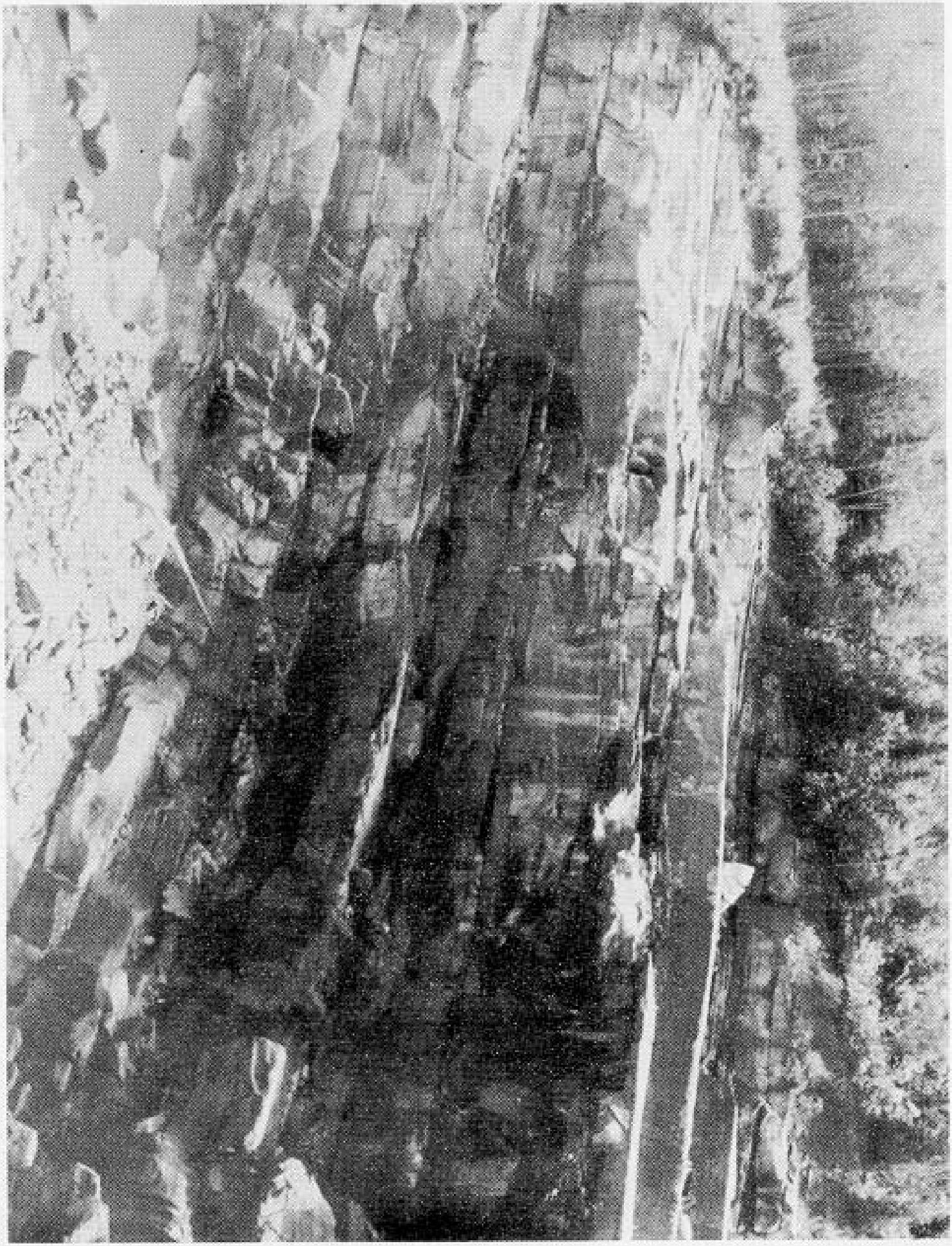


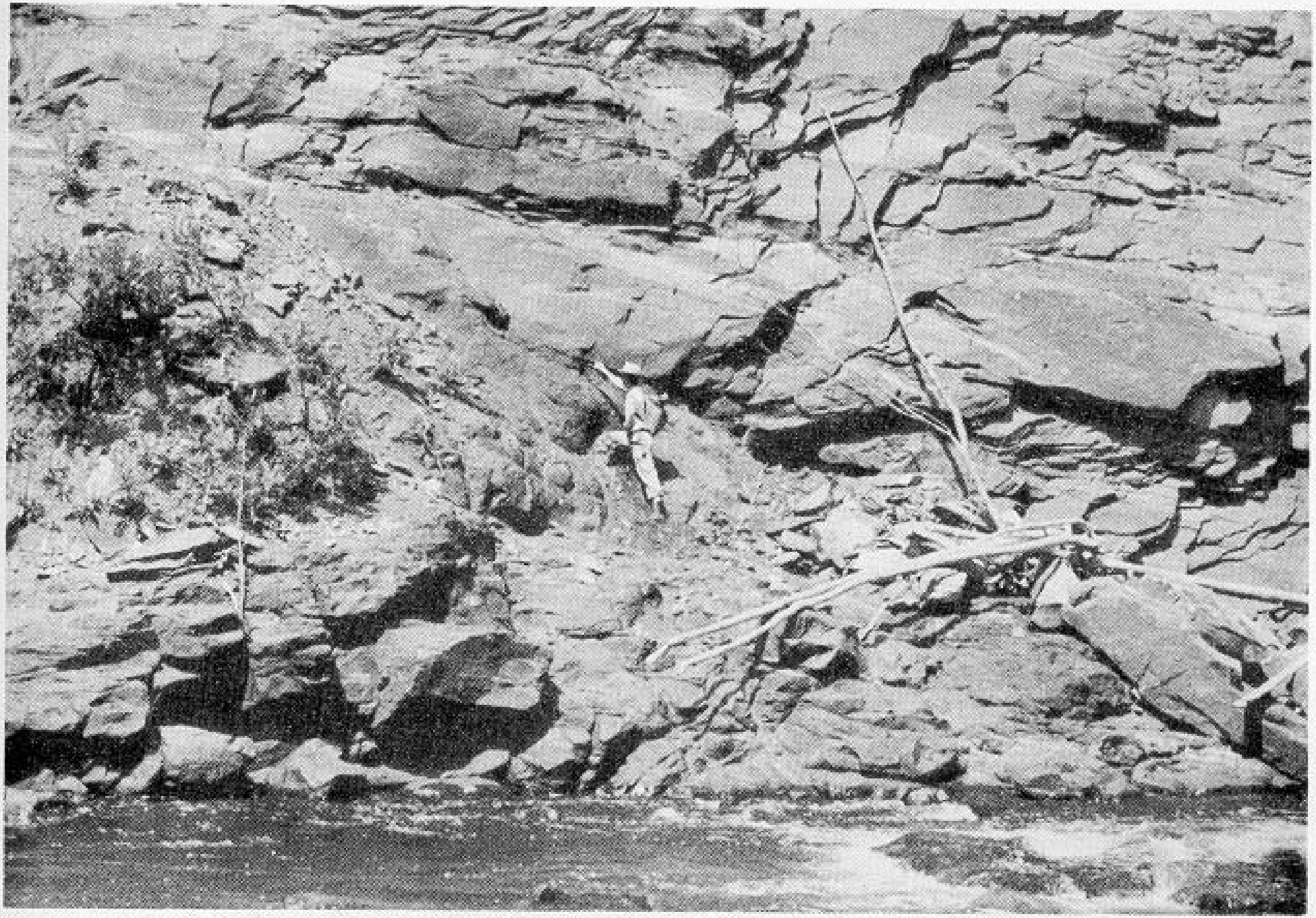


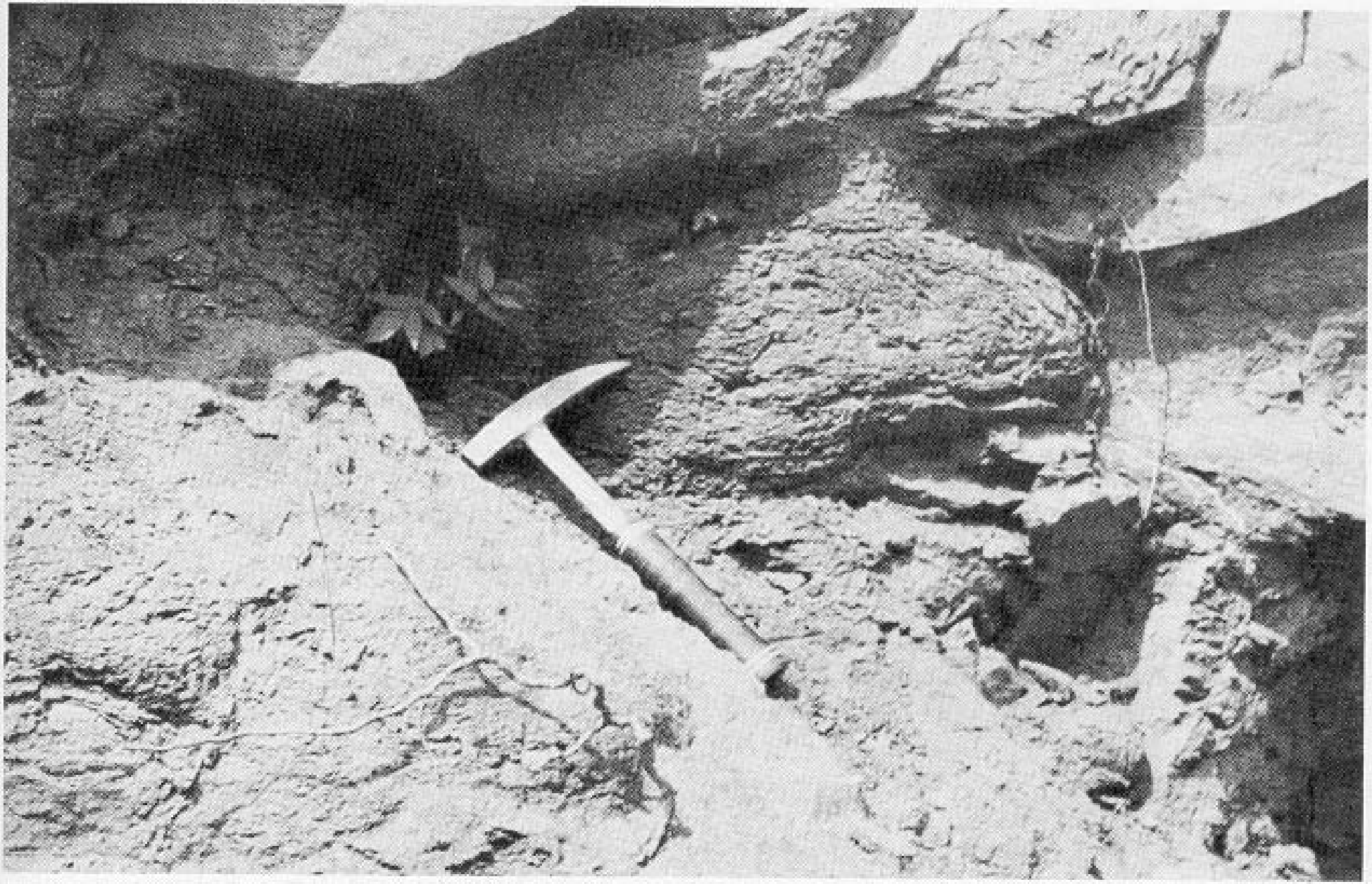


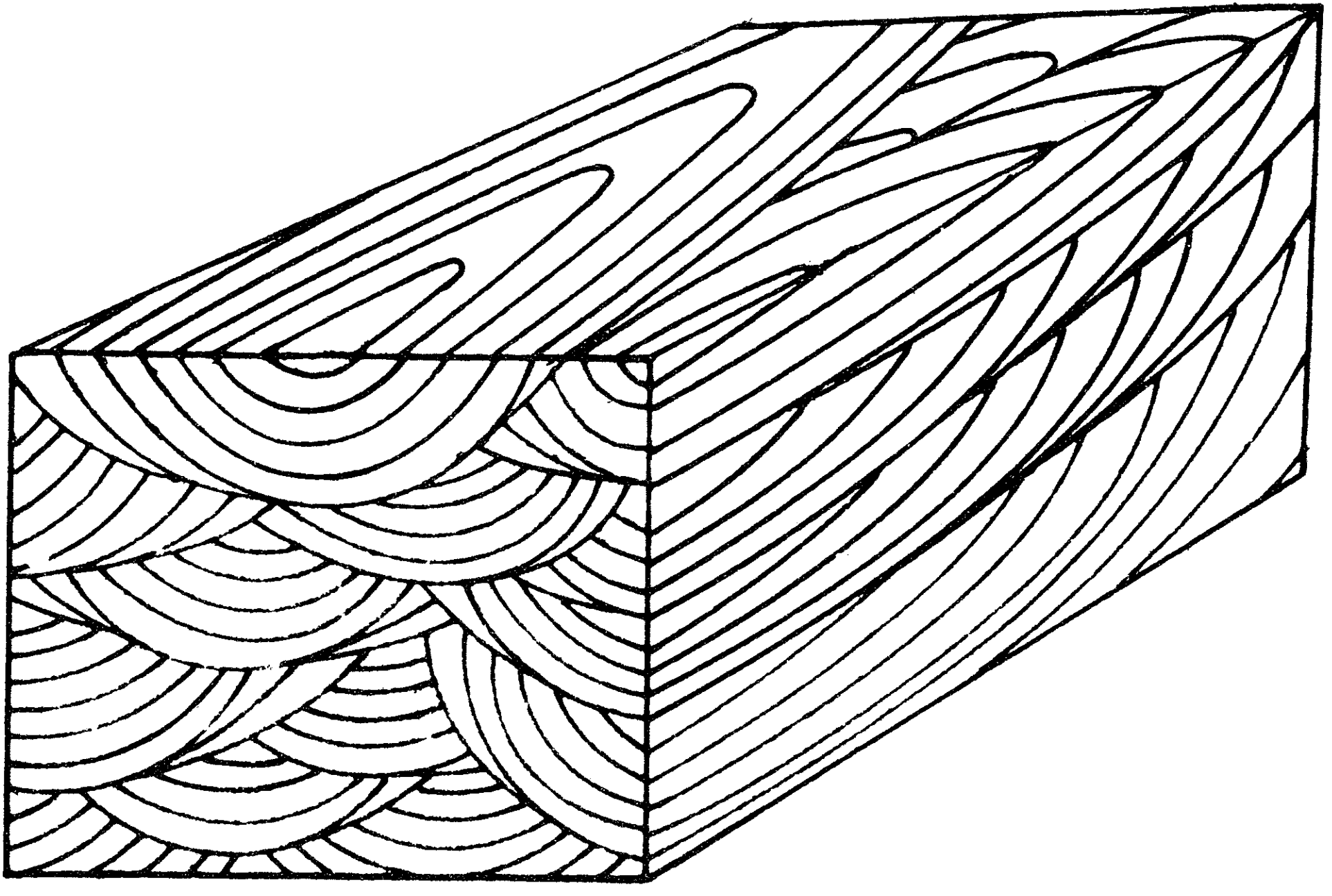


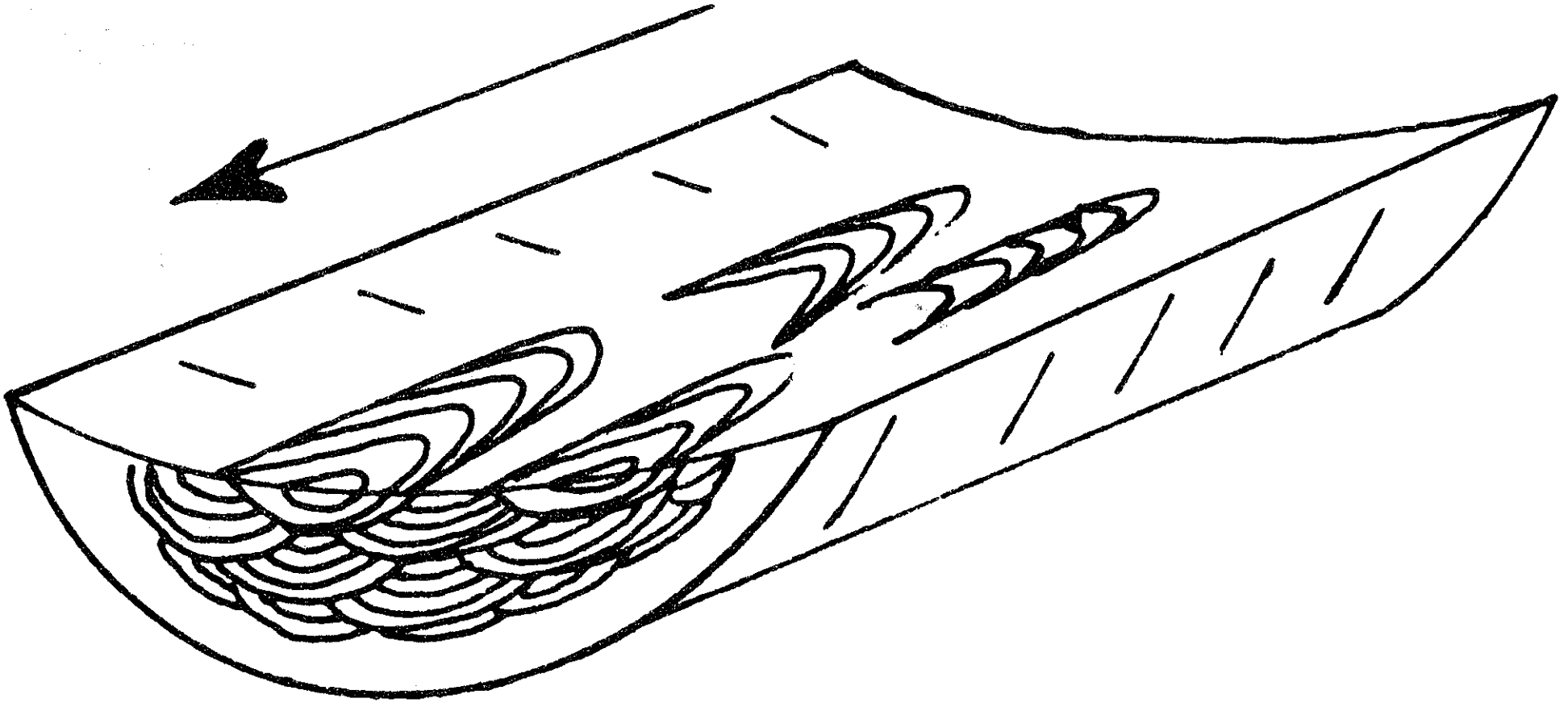




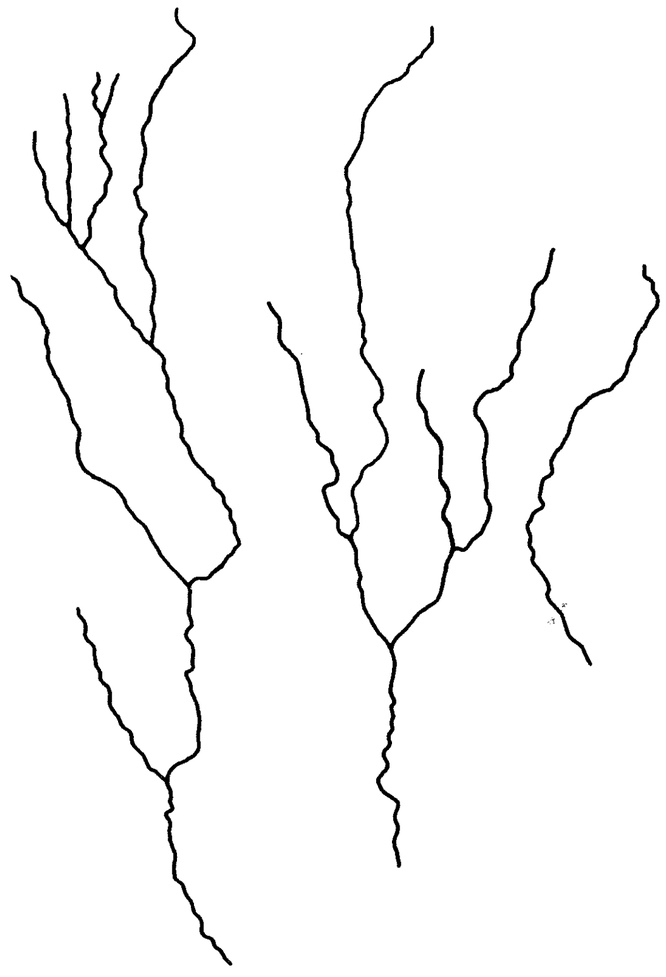






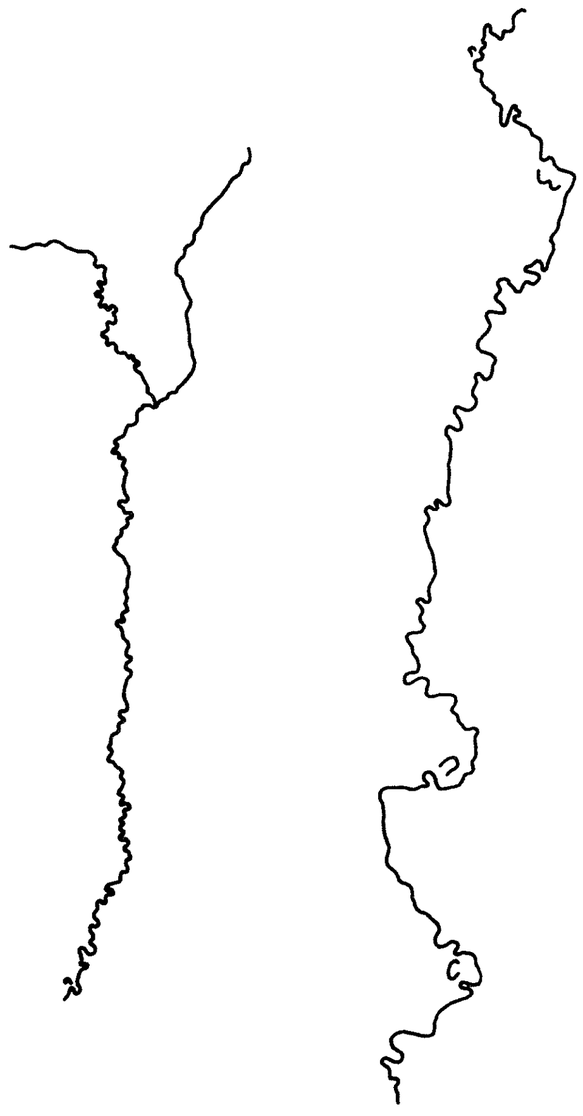


SODA CANYON QUADRANGLE, COLORADO

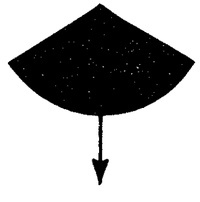


ONE STANDARD DEVIATION = 20°

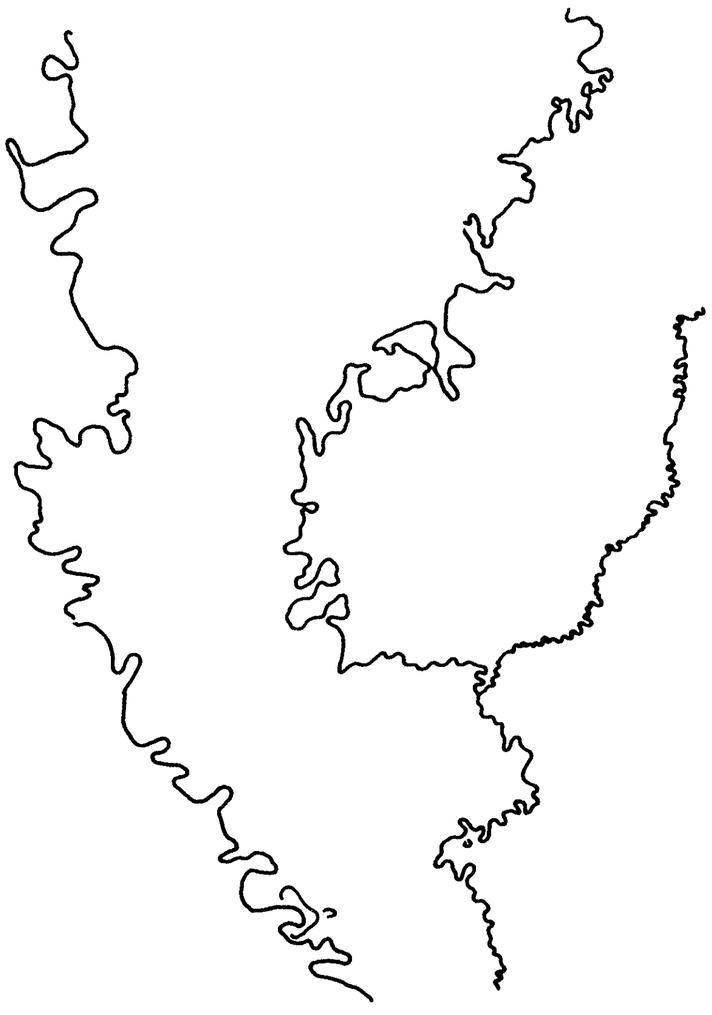
CARLYLE QUADRANGLE, ILLINOIS



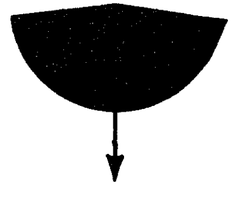
ONE STANDARD DEVIATION = 59°



FT. NECESSITY, MONROE, COLUMBIA AND ALTO QUADRANGLES, LOUISIANA



ONE STANDARD DEVIATION = 83°



Kewaunee Fault

EXPLANATION

Average cross - bedding direction and one standard deviation

Distribution of cross bedding directions in the Jacobsville formation - 476 readings

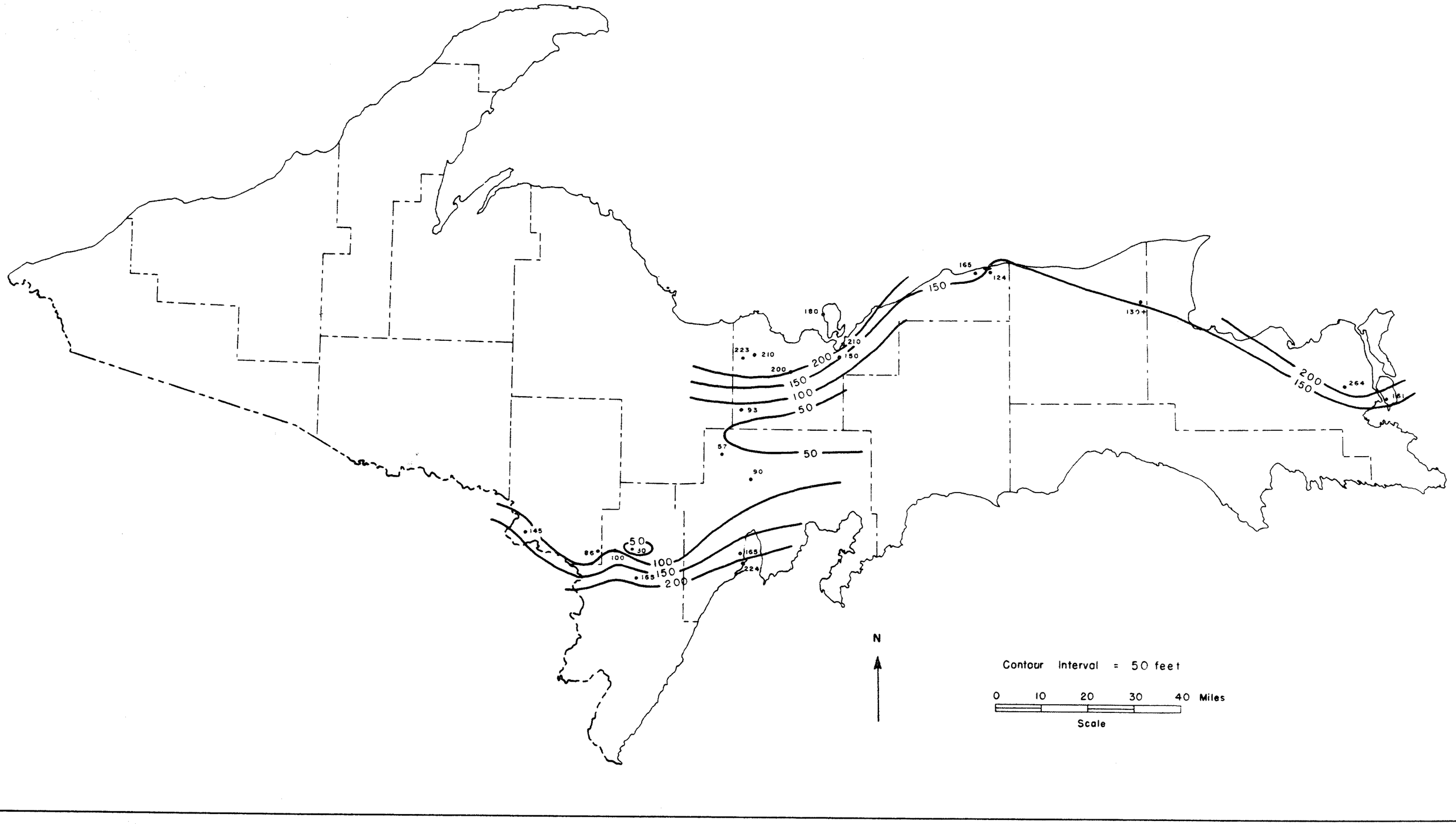
Bearing of stream channels in the Jacobsville formation

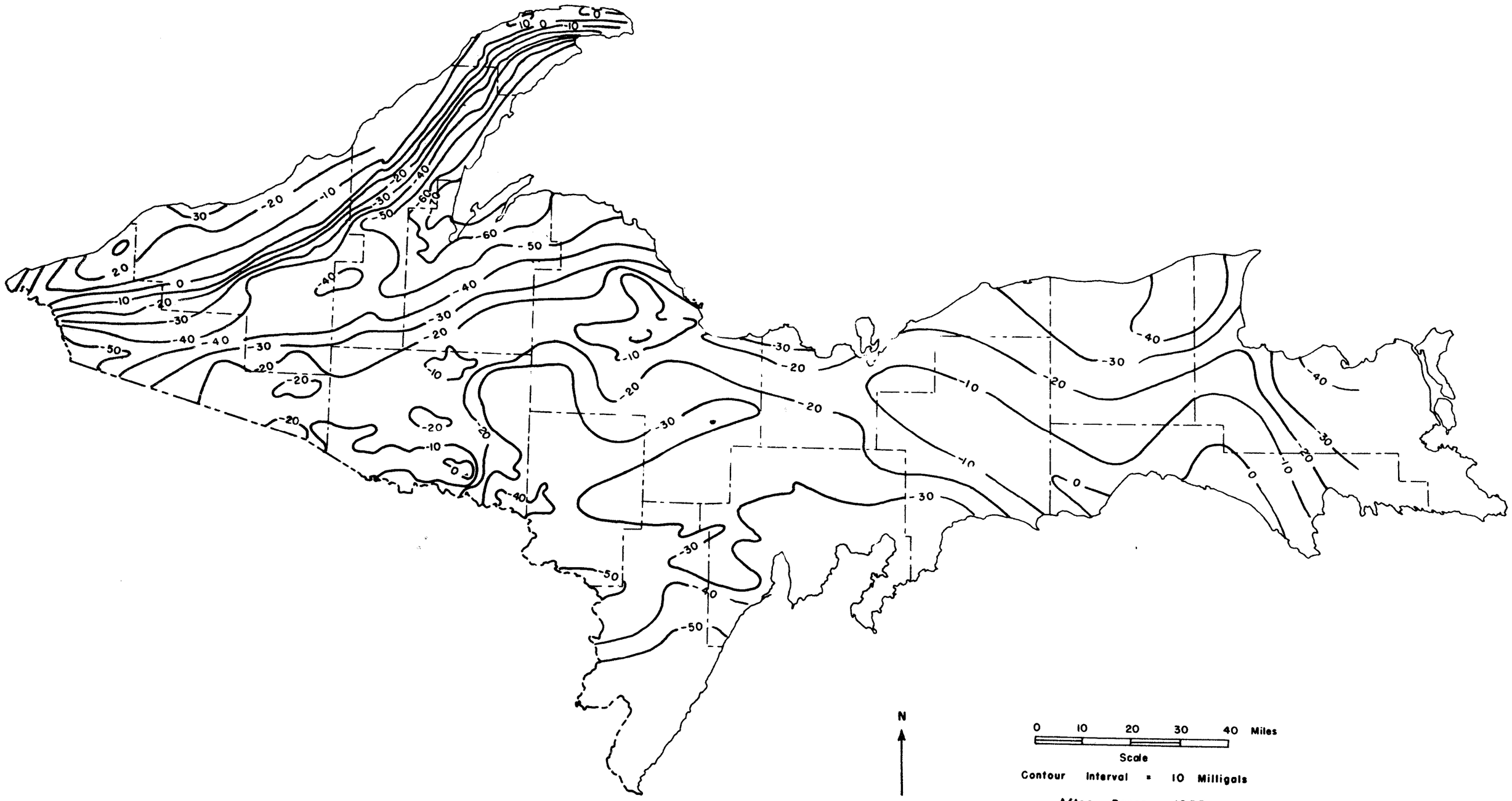
Outcrop belt of the Jacobsville formation

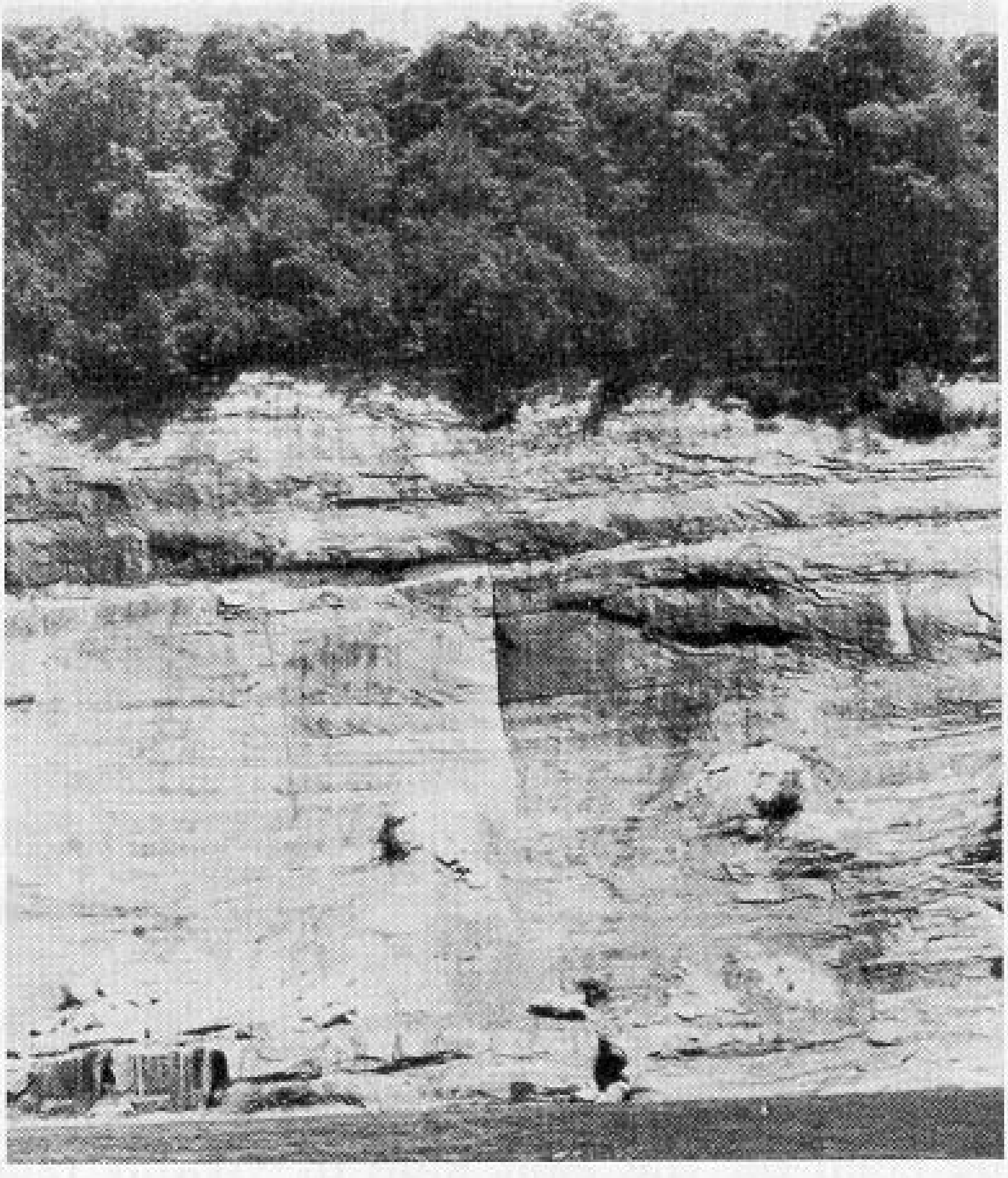
N

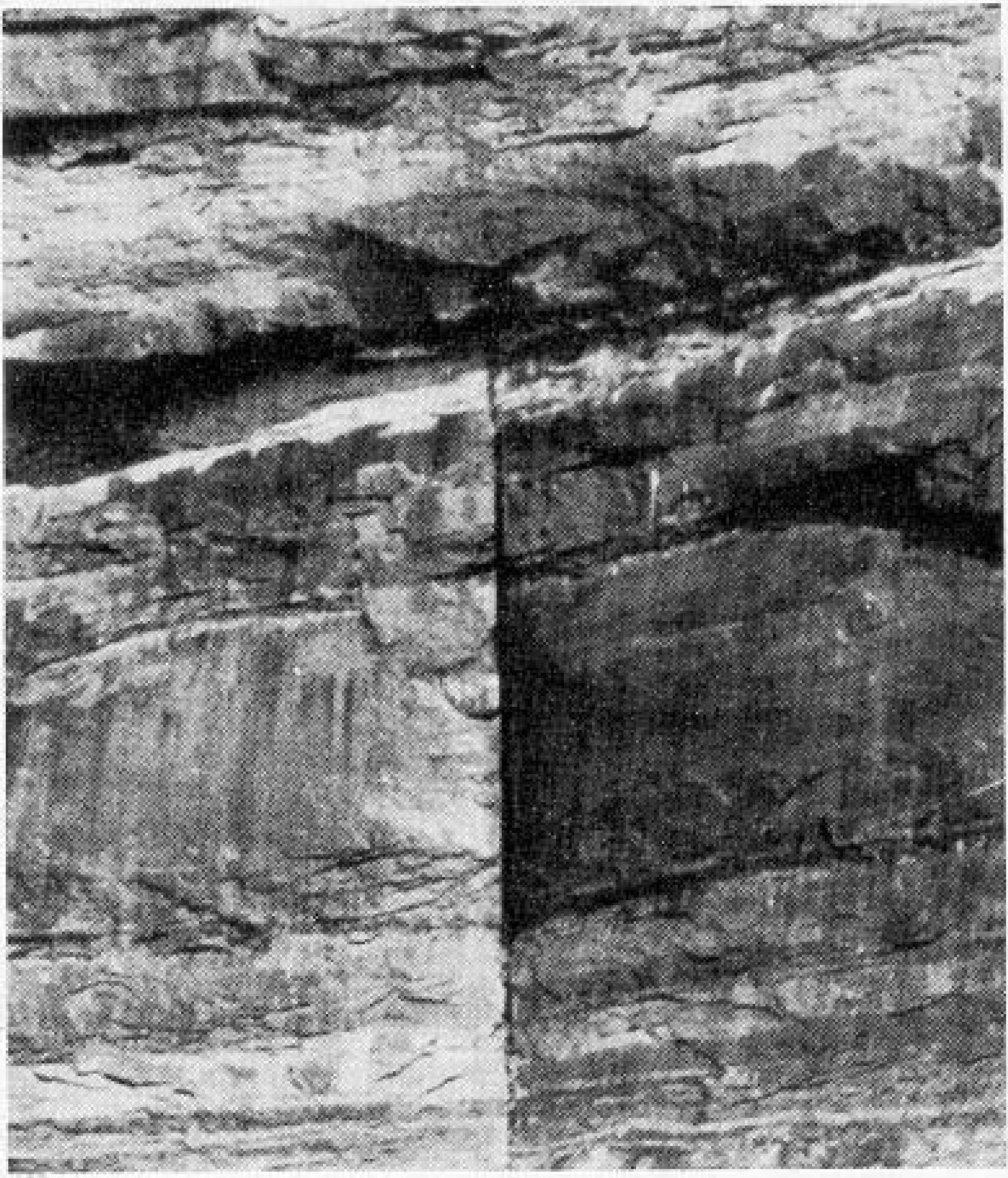
0 10 20 30 40 Miles

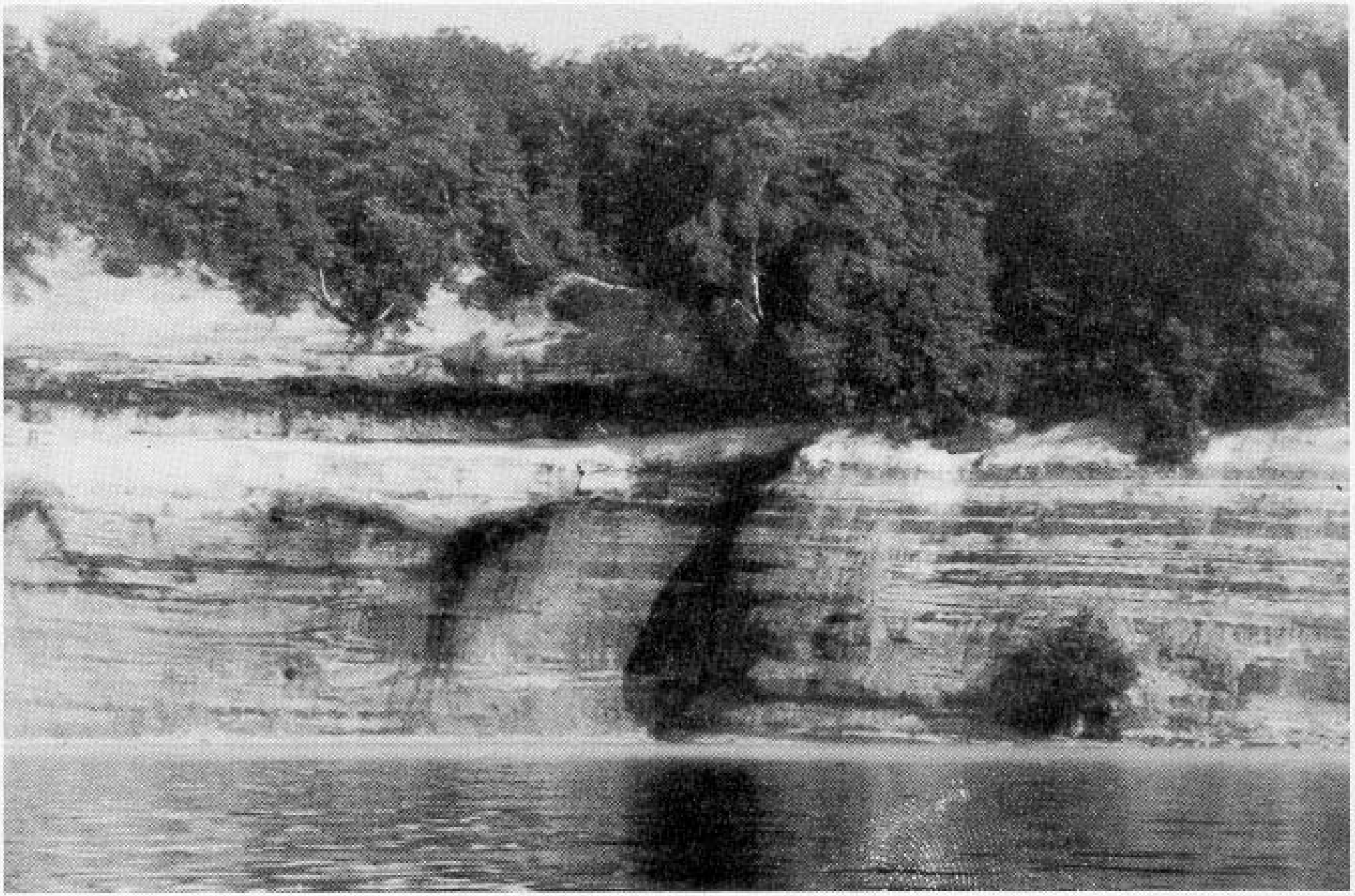
Scale


165
124
150
180
210
223
210
200
150
200
150
100
50
93
50
57
90
145
50
50
86
100
100
150
165
200
165
224
130+
200
150
264
161
N
Contour Interval = 50 feet
0 10 20 30 40 Miles
Scale


N
0 10 20 30 40 Miles
Scale
Contour Interval = 10 Milligals
After Bacon, 1957







LAKE SUPERIOR

Marquette Co.

Alger Co

Deer Lake

960

900

900

800

Laughing Whitefish Lake

845

792

740

Au Train Lake

655

700

600

GRAND ISLAND

720

690

Echo Lake

670

680

660

640

626

622

613

602

598

602

628

540

MUNISING

0 1 2 3

MILES

CONTOUR INTERVAL 20 FEET