WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY

E. A. BIRGE, DIRECTOR — W. O. HOTCHKISS, STATE GEOLOGIST

GEOLOGICAL MAP
OF PART OF
WEST END OF LAKE SUPERIOR

BY F. T. THWAITES

1911

Based upon field work in 1910, unpublished soil work for this Survey by F. L. Musback in 1910, also upon the maps and reports of the Geological Surveys of Wisconsin, Minnesota, Michigan, and the United States, and of the U. S. Department of Agriculture, the U. S. Lake Survey, and upon Railway Surveys, the U. S. Land Survey, County Maps, and reports of town and county officers.

SCALE 1 INCH = 3 MILES

Submerged Contour Interval 50 feet

LEGEND

UPPER KEWEENAWAN

BAYFIELD GROUP

- Ac — Chequamegon Sandstone (Red and white quartz sandstone)
- Ad — Devils Island Sandstone (Pink and white sandstone)
- Ao — Orienta Sandstone (Red and white sandstone)

ORONTO GROUP

- Aa — Amnicon Formation (Red and green shale and arkose)
- Ae — Eileen Sandstone (Red and white feldspathic sandstone)
- Af — Freda Sandstone (Red arkose sandstone)
- Ao — Nonesuch Shale (Black shale)
- Aoc — Outer Conglomerate (Coarse conglomerate)

MIDDLE AND LOWER KEWEENAWAN

- Akt — Traps (Basalt, diabase, gabbro, etc.)

HURONIAN

PENOKEE GROUP

- At — Thomson Slate (Gray slate)
- Aht — Tyler Slate (Black slate, etc.)
- Ahi — Ironwood Formation (Cherty iron formation)
- Ahp — Palms Formation (Quartzite and slate)

ARCHEAN

- Ar — Granite, etc. (Granite, schists and gneisses)

Outcrops: Igneous — Sediments — Unverified — Dip and strike — Faults

Sections A—B. Elevations above sea level 1142 Quarries

Elevation 602 feet above Sea Level

Two Harbors

LAKE SUPERIOR

APOSTLE ISLANDS

STOCKTON ISLAND — OUTER ISLAND — OAK ISLAND — MADELINE ISLAND — LA POINTE — CHEQUAMEGON BAY — ORONTO BAY

RED CLIFF INDIAN RES.

Bayfield — Red Cliff — Ashland — Washburn — Superior — Duluth — Cornucopia — Herbster — Port Wing — Iron River — Ironwood — Hurley — Bessemer — Ontonagon

DOUGLAS — BAYFIELD — ASHLAND — IRON — CARLTON

ASHLAND INDIAN RESERVATION

HYPOTHETICAL BOUNDARIES OF GEOLOGICAL OUTCROPS

LOCATION OF DRIFT WITH STRIKING STRUCTURE

STRUCTURE SECTIONS
Horizontal and vertical scales, same as map
Solid black indicates Pleistocene deposits