



*This shard of a continent
becalmed in the green
fresh-water sea is indeed
royal, isolate, and
supreme.*

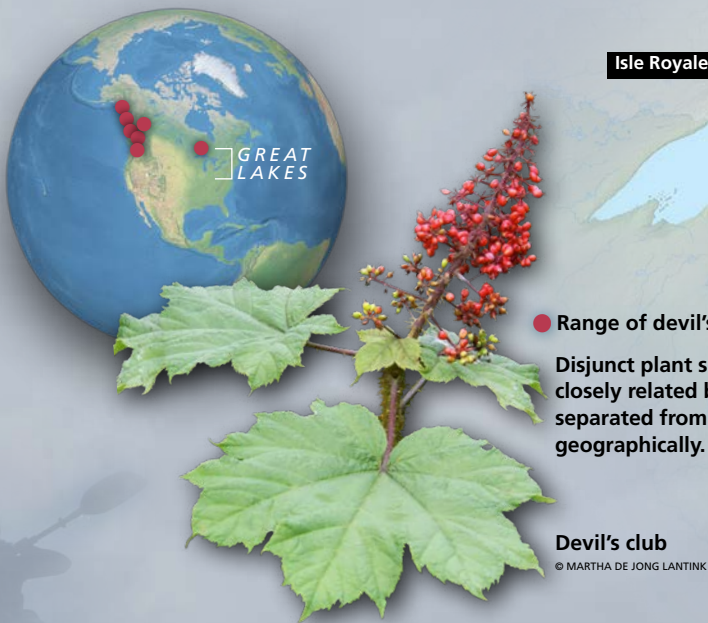
T. Morris Longstreth
*The Lake Superior
Country, 1924*



Common loon
© DAVE OSTROM

FROM THE NORTHWEST CORNER OF LAKE SUPERIOR A ROCKY ARCHIPELAGO RISES. THE COLD, DEEP WATERS OF ONE OF THE WORLD’S LARGEST LAKES BOTH ISOLATE AND PROTECT THIS PLACE. ITS DISTANCE FROM THE MAINLAND HAS LIMITED THE DIVERSITY OF SPECIES— ONLY THOSE ABLE TO MAKE THE CROSS-ING CAN CALL THE ISLAND HOME. HUMANS TOO MUST MAKE THE CROSS-ING, AND HAVE BEEN DOING SO FOR AT LEAST 4,500 YEARS. ISLE ROYALE’S GEOGRAPHIC SEPARATION PROTECTS IT FROM OUTSIDE INFLUENCES, BUT IT IS NOT IMPENETRABLE. HIGH CONTAMI-NANT LEVELS IN INLAND LAKES AND REDUCED WINTER ICE COVER REMIND US THAT ACTIONS ELSEWHERE CONNECT ISLE ROYALE WITH THE REST OF THE WORLD. HOWEVER ISOLATED, ISLE ROYALE IS NOT IMMUNE TO HUMAN-DRIVEN CHANGE.

Kayaker on Lake
Superior
© THOMAS AND DIANNE JONES



Isle Royale

Range of devil's club
Disjunct plant species are closely related but widely separated from each other geographically.

Devil's club
© MARTHA DE JONG LANTINK

From Isolation, Novelty

You will see the red squirrel more often than any other mammal on Isle Royale. How did it make the crossing from the mainland? No one knows—but because of its long isolation from its relatives the Isle Royale red squirrel is now considered a subspecies. Smaller and less red than its mainland counterparts, it makes different sounds. Its subspecies name, *regalis* (regal) suits its self-important behavior. Other mammals on Isle Royale, like the American marten, are also genetically distinct from mainland species.

Evolving Wilderness

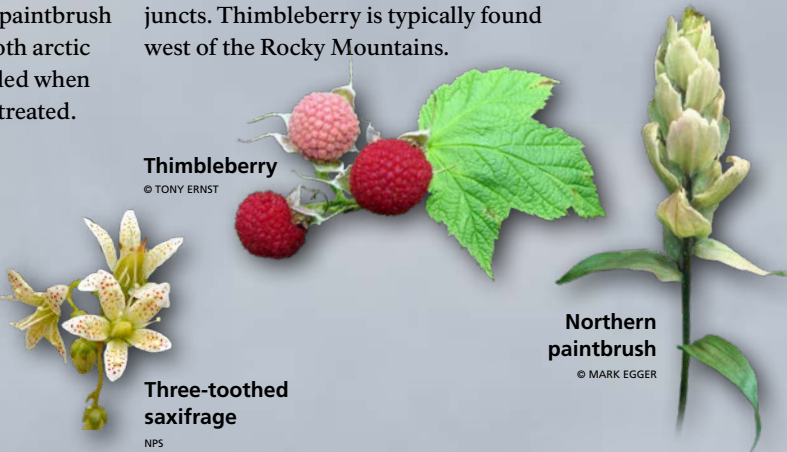
Early human crossings of Lake Superior to Isle Royale presented both risks and rewards. Pre-contact cultures, and later the Ojibwe, harvested copper deposits, an abundant fishery, and other resources. Commercial fishermen and copper miners, lumberjacks, and lighthouse keepers depended upon the island for their livelihood. Cool summer temperatures and wilderness pursuits enticed vacationers in the early 1900s. Today Isle Royale National Park is a designated wilderness and biosphere reserve, attracting hiking, paddling, and backpacking enthusiasts as well as boaters, divers, and others.



Isle Royale red squirrel
© JOHN AND ANN MAHAN

Plants Far from Home

Some plant species that thrive along Isle Royale’s cooler shores are not typically found this far south. Northern paintbrush and three-toothed saxifrage, both arctic disjuncts, were probably stranded when the last continental ice sheet retreated.



Thimbleberry
© TONY ERNST

Three-toothed
saxifrage
NPS

Northern
paintbrush
© MARK EGGER

Island Laboratory

Scientist Durward Allen, who founded the Isle Royale Wolf-Moose Study in 1958, expressed one value of islands as laboratories when he described them as places “where the animals you are counting and studying do not wander away.”

Isle Royale’s isolation shapes its ecosystem. It excludes some species. Others arrive by chance. Some that could make the trip rarely do so. As a result, less than half of the over forty mammal species on the surrounding mainland have populations on Isle Royale today. Fewer species result in fewer relationships among species—creating opportunities for research and long-term monitoring in a relatively simple ecosystem.

Studies on the island have increased our understanding of predator-prey interactions and their cascading effects

on other species. Monitoring of bird and fish populations, water levels, and water quality sheds light on the consequences of global changes. Research revealing a rainbow of colors in the island’s garter snake population rekindles our wonder for the vibrancy of the natural world.

Nothing stays the same for very long on an island. A little over a hundred years ago, a survey of Isle Royale’s mammals would have resulted in a list quite different from the present one. Moose would be noticeably absent. Caribou would represent the large prey species, while coyote and lynx would serve as the predators.

This ecosystem may not be as simple as it first appears. On Isle Royale, a world within our world, all life exists in a dynamic web.



Moose
© CARL LINDBLOOM



Chippewa Harbor
© JOHN AND ANN MAHAN

ROYAL BEGINNINGS

One billion years ago, Earth’s crust ripped open here and released lava, which hardened into a slab of basalt rock. This cycle repeated more than four hundred times over millions of years, creating a giant layer cake of rock. Later, massive geologic forces cracked and shifted the basalt layers, tilting them upward (*see illustration at right*).

Huge, miles-thick ice sheets advanced and retreated during the last three million years. The crushing, dragging action of the ice cut deep gouges into the softer rock in between the harder basalt layers. As the last major glacier retreated from the region around 11,000 years ago, it left a pattern of parallel ridges and valleys.

A deep basin surrounding the rock layers trapped the glacier’s melting ice. Meltwater filled the basin, creating one of Earth’s largest lakes and immersing all but the upper edges of some layers. These “shards of the continent” that rise from Lake Superior form the Isle Royale archipelago. Despite the islands’ isolation from the mainland by the lake’s deep, icy water, life took hold.

ABOVE THE SHORELINE

Explore rugged, exposed shoreline.
© TOM BEAN



Sugar maples densely cover some upland slopes.
© VIRENS

More than 600 types of lichen, grow on exposed bedrock and dangle beardlike from trees.
© RAYMOND T. DUMAS



Paper birch is among the first trees to colonize areas newly opened up by fire or windthrow.
NPS

As the last continental ice sheet retreated across the region, it helped create the set of conditions in which life developed. It left glacial till on the main island’s southwestern end and scoured the northeastern end. Resulting habitats range from ridges and uplands to swamps and lakes; gentle, sun-warmed slopes to steep, shaded, lichen-covered drops.

of spruce, balsam fir, and paper birch gives way to a deciduous forest. As you continue to move inland, temperatures rise, and trees such as sugar maple and red oak, which prefer warmer conditions, thrive.

Wetlands nestled in Isle Royale’s narrow valleys hum with beaver activity. Carnivorous plants abound in floating bogs. Long-isolated inland lakes are home to native mussels, giant sponges, and species of fish not found in Lake Superior.

Notice how the forest composition changes as you climb from the shoreline toward the Greenstone Ridge. The boreal forest

Floating bogs support the carnivorous pitcher plant.
© MIKE WANG



Voyageur II
Grand Portage, MN to Windigo
2 hours one-way

Sea Hunter
Grand Portage, MN to Windigo
1.5 hours one-way
22mi / 35km

Rock of Ages Lighthouse

Windigo Visitor Center
NPS



GETTING HERE The park is open April 16 through October. Public transportation is by boat or seaplane only. Reservations are always required. Passenger ship service is available from Copper Harbor and Houghton, MI, and Grand Portage, MN. Seaplane service is available from Houghton, MI. See the park website for more information.

CUSTOMS US citizens returning from Canada and Canadian visitors to the park are required to clear US Customs at Windigo and Rock Harbor ranger stations.

FOR YOUR SAFETY AND TO PRESERVE YOUR ISLAND WILDERNESS No pets within park boundaries. • No wheeled vehicles (except wheelchairs), bicycles, or portaging devices on trails. • Observe park wildlife from a safe and respectful distance. Keep wildlife wild; secure your food. • Enjoy the thrill of discovery, but leave all park resources where you find them for others to experience. • Permits are required for all overnight stays at park campgrounds, docks, and anchorages. The park is remote. Plan carefully and exercise caution to prevent ac-

cidents or injuries. • Lake Superior waters are dangerously cold and unpredictable. • Boaters should carry appropriate lake charts. Many shoals and reefs are hazardous to navigate. • Stay hydrated. All water not from a spigot must be treated by filtering or boiling.

FISHING A fishing license is not required for inland lakes, ponds, and streams, but you must have a Michigan license for all Lake Superior waters.

FIREARMS For firearms regulations check the park website.

ACCESSIBILITY We strive to make our facilities, services, and programs accessible to all. For information contact the park prior to your visit.

EMERGENCIES Check the park website for current emergency numbers.

National Park Foundation.
Join the park community.
www.nationalparks.org

An archipelago is a group or chain of islands. Isle Royale National Park is made up of more than 400 small islands.

Blake Point at Isle Royale’s eastern end, viewed from the air.
© E. NEIL HARRI

Passage Island Lighthouse

Cross-section of Isle Royale’s ridge and valley topography, formed by tilted basalt layers.

Voyageur II
Windigo to Rock Harbor
5 hours

Pittsburg and Isle Royale Mine

Little Todd Harbor

Ishpeming Point
1365ft
416m

Mount Desor
1394ft
425m

Sugar Mountain
1362ft
415m

Washington Creek

Washington Harbor

Grace Island

Johns Island

Cumberland Point

Washington Island

Beaver Island

Wendigo Mines

Hughninn Cove

The Head

Hay Bay

Lake Halloran

Big Siskiwit River

Feldtmann Lake

Rainbow Cove

North Gap

Grace Island

Johns Island

Cumberland Point

Washington Island

Beaver Island

Wendigo Mines

Hughninn Cove

The Head

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