



## Your Guide to Isle Royale National Park

[www.nps.gov/isro](http://www.nps.gov/isro)

National Park Service  
U.S. Department of the Interior



# Celebrating the First 50 Years of Wolf - Moose Research

"I WAS ESPECIALLY INTERESTED IN ISLANDS AS RESEARCH AREAS, WHERE THE ANIMALS YOU ARE COUNTING AND STUDYING DO NOT WANDER AWAY."

Durward Allen, Founder of Isle Royale Wolf -Moose Study

National Parks and federally-designated Wilderness areas enhance our understanding of nature by facilitating scientific research. Isle Royale attracts a wide variety of researchers interested in many topics. The park's status as a Wilderness and its location as an isolated archipelago in the largest freshwater lake in the world provide a unique opportunity to study species behavior, community structure, and terrestrial and aquatic systems in the absence of most of the human influences that exist on the mainland.

Why is that important? When scientists design a research project, they formulate questions to be answered based on collecting specific data. While designing a project, the researcher may find that there is no straightforward way to control variables and eliminate outside influences unless they are working

in an artificial environment, a laboratory. But what if the questions can't be answered in a laboratory? One solution is to find a location where many extraneous variables and influences don't exist- a location that is isolated, yet still accessible. For some that place is Isle Royale National Park.



Durward Allen of Purdue University. This year marks the 50th anniversary of the beginning of the Isle Royale wolf - moose study. This project, now headed by Rolf Peterson and John Vucetich, is a cooperative effort between the National Park Service and Michigan Technological University. It has grown into the longest running predator - prey study in the world.

Research projects lasting 10 years or more are relatively rare, usually due to lack of funding or changes in the study site. Many research questions, evaluating a specific change in an animal population or determining the impacts of pollutants for example, require long term study. Fifty years of studying wolves and moose at Isle Royale have provided the opportunity for many lessons. The wolf research has contributed greatly to scientific knowledge of the grey wolf and redefined traditional thought about the persistence and viability of a small wolf population, including its resilience in the face of genetic deterioration over time. Scientists have learned that seemingly simple isolated systems are actually very complex, with many interrelated components (wolves, moose, weather, vegetation, parasites) which interact in unpredictable and subtle ways. Single random events such as the introduction of parvovirus have been found to cause long lasting consequences. Natural systems are very dynamic, making it very difficult to predict what may happen in the future. The wolf moose study has advanced scientific understanding of both species beyond the park's borders and informed natural resources research and management nationally and internationally. Continued study will further expand our knowledge and understanding of the natural world around us.



This year Isle Royale National Park and our partners are celebrating the contributions of all the scientists, individuals and organizations like the National Science Foundation and Earthwatch who have supported the wolf - moose study since it began fifty years ago. Anniversary events on the island and in the Great Lakes region are being planned so we can share what has been learned.

To find out more about the Isle Royale wolf-moose study and special anniversary events, go to the 50th anniversary website, [www.wolfmoose.mtu.edu](http://www.wolfmoose.mtu.edu) and the wolf study site, [www.isleroyalewolf.org](http://www.isleroyalewolf.org).

Jean Battle, Chief, Natural Resources Division

Liz Valencia, Chief, Interpretation and Cultural Resources Division

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Books and maps provided through the Isle Royale Natural History Association.



# Contacts

## Isle Royale National Park

800 E. Lakeshore Drive  
Houghton, MI 49931-1869

**Phone:** 906-482-0984

**Fax:** 906-482-8753

**Website:** [www.nps.gov/isro](http://www.nps.gov/isro)

**E-mail for General Information:**

ISRO\_ParkInfo@nps.gov

**Emergency use only:**

800-727-5847

## Isle Royale Natural History Association (Books & Maps)

800 East Lakeshore Drive  
Houghton, MI 49931-1869

**Phone:** 800-678-6925; 906-482-7860

**Website:**

[www.irnha.org](http://www.irnha.org)

**E-mail:**

irnha@irnha.org

## Rock Harbor Lodge

### Summer

P. O. Box 605  
Houghton, MI 49931-0605

**Phone:** 906-337-4993

### Winter

Isle Royale Resorts, P. O. Box 27,  
Mammoth Cave, KY 42259-0027

Toll-Free Reservations: 866-644-2003

Phone: 270-758-2001

**Website:**

[www.isleroyaleresort.com](http://www.isleroyaleresort.com)

**E-mail:**

isleroyaleresort@starband.net

## Weather Forecasts for Isle Royale

### Michigan

[www.crh.noaa.gov/mqt](http://www.crh.noaa.gov/mqt)

### Minnesota

[www.crh.noaa.gov/dlh](http://www.crh.noaa.gov/dlh)

## National Weather Service Radio Forecasts

- 162.400 MHz from Houghton, Michigan.
- 162.475 MHz from Thunder Bay, Ontario, Canada.

## Keweenaw Convention and Visitors Bureau

**Phone:** 800-338-7982

**Website:**

[www.keweenaw.info](http://www.keweenaw.info)

**E-mail:** [info@keweenaw.info](mailto:info@keweenaw.info)

## Minnesota's Grand Marais Visitor Information Center

**Phone:** 888-922-5000

**Website:**

[www.grandmarais.com](http://www.grandmarais.com)

## Michigan Department of Natural Resources Fishing License Purchase

**Website:**

[www.michigan.gov/dnr](http://www.michigan.gov/dnr)

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- Photographs from the Isle Royale National Park collection.
- Isle Royale Natural History Association funded this publication.

—Printed on recycled paper—

# Saltwater Virus Threatens Superior Fisheries

Isle Royale visitors play an important role in keeping invasive species away from the Island. But what happens when the invader is a virus that can devastate fish populations if it gets into the Lake Superior basin? It may only take wind and waves and an opportunistic hitchhiker to move into Park waters. The virus does exist and we are doing all we can to keep it from getting into Lake Superior. Isle Royale joined with the other National Parks on Lake Superior and the Grand Portage Band of Ojibwa to create a prevention and containment plan for this recent aquatic invader, viral hemorrhagic septicemia (VHS). The disease does not affect humans, but it can kill thousands of fish in a single incident. The VHS virus, now in the lower four Great Lakes, has affected 28 additional species of fish since its introduction from the Atlantic Ocean. On Isle Royale, the coaster

brook trout population is estimated at approximately 500 individuals. Three lake trout phenotypes, distinct to Isle Royale, have yet to be studied. These special trout populations and others could be at risk if VHS enters Lake Superior.

We need your help. As an angler, educate yourself on how you can help slow the spread of this disease by visiting the following websites: [www.dnr.wi.gov/fish/vhs](http://www.dnr.wi.gov/fish/vhs); [www.michigan.gov/dnr/](http://www.michigan.gov/dnr/); [www.mctu.org/web%20graphics/VIRAL](http://www.mctu.org/web%20graphics/VIRAL); [www.usgs.gov/newsroom/article.asp?ID=1856](http://www.usgs.gov/newsroom/article.asp?ID=1856). As a boater, please review how you can disinfect your boats prior to heading to the Island. Stay aware of how this disease is progressing through the lower lakes and identify high risk waters for extra cleaning if you move between the Great Lakes. If we can slow the progress of this disease, we will provide an opportunity for research to help us



better understand how to mitigate its effects. Scientists indicate it is typical for "naïve populations" (not previously exposed to VHS) to suffer catastrophic losses when faced with a new, highly infectious disease. Humans have the capability to not be naïve about diseases that affect resources they care about. For information on Park efforts to reduce the spread of the disease visit our website at [www.nps.gov/isro](http://www.nps.gov/isro). Please learn about VHS and help us keep it away from Isle Royale.

Phyllis Green  
Superintendent

The National Park Service  
cares for special places saved by  
the American people so that all may  
Experience Our Heritage



# Rock Harbor Lodge and Windigo Store

## Lodge Rooms

Sixty rooms are available; each accommodates four and offers private bath. Available 6/3 thru 9/6.

## Housekeeping Rooms

Twenty duplex cottages accommodate six and are furnished with utensils, dishware, private bath, double bed and two bunk beds. Available 5/23 thru 9/6.

## Gift Shop and Dockside Store

Gift Shop offers handcrafted gifts, apparel, photo supplies, postcards, souvenirs, daily fishing licenses, and tackle. The store offers groceries, freeze-dried foods, fishing tackle, stove fuel, camping, hiking, and boating accessories, showers, laundry facilities, and sundries. Gift Shop 6/3 thru 9/6 – Store 5/23 thru 9/6

## Lodge Dining Room & Greenstone Grill

Hearty meals, including fresh Lake Trout. Visitors welcome for breakfast, lunch, and dinner. Food service open daily, 6/3 thru 9/6.

## Marina and Water Taxi

Offers 450 feet of dock space in Rock Harbor, accommodating boats up to 65 feet. Electrical, fresh water hook-up, sewage pump-out, gasoline, and diesel fuel, motorboat, canoe, and kayak rental available. Water taxi service drops off or picks-up visitors, canoes, or kayaks at many island docks. Available 5/23 thru 9/6

## Fishing Charters and Sightseeing

Charters are fully equipped. For details on sightseeing trips refer to page 4.

## Windigo Store and Marina

Offers groceries, cold sandwiches, camping supplies, stove fuel, daily fishing licenses and tackle, gifts and photo supplies. The marina offers gasoline, pump-out service, and motorboat, canoe and kayak rental. Shower and laundry facilities available. Open 6/3 thru 9/8.

The cost for utilities on Isle Royale is much higher than on the mainland. A utility surcharge will be added to the cost of all goods and services.

Contact Information to the left.

[www.isleroyaleresort.com](http://www.isleroyaleresort.com)



# RANGER III, Fifty Years of Service

## Ranger III facts

- Makes 45 round-trips each year between April and November
- Operated by a Captain and crew of six to nine
- Accommodates 128 passengers, with five passenger lounges, four staterooms, galley, snack-bar, and dining area
- Length: 165 feet
- Beam: 34 feet
- Depth: 16 feet (keel to the main-deck)
- Horsepower: 1700 shp, twin 850 horsepower diesel engines installed in 1999
- Max. Speed: 16 knots
- Gross tonnage: 650 GRT
- High raked-bow strengthened for ice breaking
- Twin controllable-pitch-propellers
- State of the art navigation electronics
- 4.5-ton capacity self unloading deck-crane for lifting freight and boats
- 10,000 cubic feet of interior cargo space
- 600 cubic feet of refrigerated and freezer space
- tank space for 7,500 gallons of heating/generator fuel for use on the island

"I christen thee *Ranger III*," announced Mrs. John Bennett on June 21, 1958 as she smashed a bottle of champagne on the bow of Isle Royale National Park's new package freight vessel. As the 165 foot long ship slid down into the water, a twenty year old dream finally became a reality.

Back in 1936, a report to the Park Service Director on recommendations for the recently authorized Isle Royale National Park addressed the need for a safe vessel to accommodate park operations and visitor transportation. At that time, the original *Ranger*, a 75 foot surplus Coast Guard cutter,



had just been acquired. The ship was heavily used by the Civilian Conservation Corps, but its condition soon deteriorated to the point when it became unsafe. *Ranger II*, a larger 114 foot ship, was surplused from the military to the park in 1948 and in 1951 was granted permission to transport the visiting public to the island – it could accommodate a grand total of sixteen passengers.

The need for a reliable and safe ship that could meet the specific needs of Isle Royale National Park was undeniable. Michigan congressman John B. Bennett sponsored the funding bill for *Ranger III* under the Mission 66 program. The Mission 66 program provided special funds to upgrade the National Park System infrastructure over a ten-year period beginning in 1956 and ending with the Park Service's 50th anniversary in 1966. Total cost of *Ranger III* was \$1,160,000.

*Ranger III* was custom designed specifically for Isle Royale by marine



architects from R.A. Stearn Inc. of Sturgeon Bay, Wisconsin. The ship was also built in Sturgeon Bay by Christy Corp. in 1958 and delivered to the park in September.

The mission of the ship then, as now, was "to service the logistical needs of Isle Royale National Park". The maiden voyage to Isle Royale was made on October 10, 1958. The ship ran into a notorious Lake Superior gale, forcing it to seek shelter in Thunder Bay, Ontario. It arrived safely at the park the following day. Since then, the ship has safely made over 4,400 crossings of Lake Superior, a testament to its design, durability, and dedicated maintenance program. This year Isle Royale National Park will celebrate 50 years of *Ranger III* service.

Bill Hanrahan  
Captain, *Ranger III*

## Partners in Preservation and Education

Three critical organizations partner with the National Park Service to preserve and protect Isle Royale for present and future generations: the Isle Royale Institute (IRI), the Isle Royale Natural History Association (IRNHA), and the National Parks of Lake Superior Foundation (NPLSF). Each overlap in their missions to assist the National Park Service with research and education, but the three are unique in their specific focus and the expertise they offer.

The Isle Royale Institute is a partnership between the National Park Service, Michigan Tech University, and the University of Minnesota Duluth. IRI offers educational courses and resources for teachers, youth, and others who traditionally have not had easy access to Isle Royale. A cornerstone of IRI programs are teacher institutes; groups of teachers spend a week camping in the wilderness, work alongside researchers to study the science and history of Isle Royale, and develop lesson plans to help all teachers bring the wonders of Isle Royale to their classrooms. To further the highest quality research at Isle Royale, IRI has launched a

review of current and past research in the park in two phases: 1) organizing the park's research documents into a searchable electronic library, and 2) convening a blue ribbon panel of national experts to assess and guide Isle Royale's research program. This will aid in IRI's goal of securing funding and building partnerships to address Isle Royale's highest research priorities. IRI is funded primarily by grants and contributions from its three partner organizations.

The Isle Royale Natural History Association has partnered with Isle Royale for over 50 years, publishing educational books, brochures and other products, and providing funding to assist with educational programs and cultural and natural resource protection projects. Every year IRNHA provides critical funding to publish this newspaper and other brochures for park visitors. They continue to support wildlife and plant surveys in the park and the Artist in Residence program. IRNHA members assist with a variety of natural and cultural resources service projects from pulling exotic plants to repairing park structures to assisting in island

visitor centers. IRNHA members provide thousands of volunteer hours and serve as some of the park's most important advocates. IRNHA is funded primarily through book sales, membership dues, and donations.

The National Parks of Lake Superior Foundation was formed in 2005 to fund special projects at Isle Royale and the four other U.S. national parks on Lake Superior, over and above appropriated funds. The Foundation was created in response to the growing budget crisis in national parks. Projects targeted

for funding include preservation of historic structures and lighthouses, improved visitor services and facilities, enhanced environmental education programs and more. In 2007 and 2008 NPLSF is working with the park to raise funds and enlist volunteers to build a new dormitory in Windigo to house researchers, volunteers, park staff, and others who work on resource protection and educational programs for Isle Royale. Funding for the NPLSF comes from private and business donations.

For more information on these organizations, visit their websites:

[Isle Royale Institute, www.iri.mtu.edu](http://www.iri.mtu.edu)

[Isle Royale Natural History Association, www.irnha.org](http://www.irnha.org)

[National Parks of Lake Superior Foundation, www.nplsf.org](http://www.nplsf.org)

Jill Burkland, Executive Director  
Isle Royale Natural History Association



Ann Mayo Kiely, Executive Director  
Isle Royale Institute



# Interpretive Activities

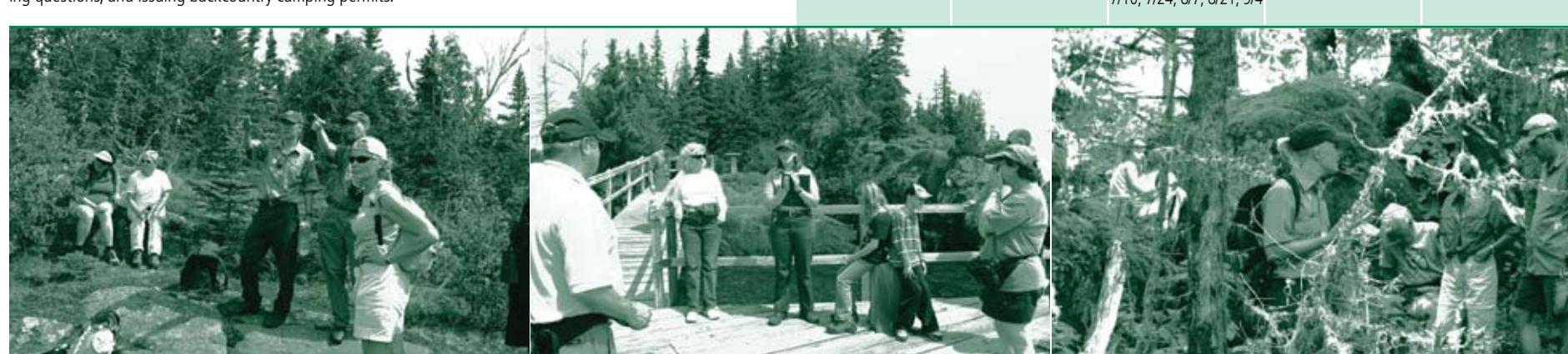
Enjoyable and educational programs are offered on Isle Royale at Rock Harbor, Daisy Farm, and Windigo, and they are also presented on the National Park Service vessel, *Ranger III*. In addition, guided excursions explore such areas

as Passage Island and Lookout Louise near Rock Harbor. Ranger guided programs are free, although those involving the tour boat *MV Sandy* include a transportation fee. Check at local bulletin boards for further details. For outdoor activities,

dress for the possibility of cold or rain and wear sturdy footwear. Trails are slippery and muddy during or after wet weather; wear shoes with good ankle support, weatherproofing, and soles that grip well. Come join us!

- All times are Eastern Daylight Time
- \$ = transportation cost
- \*\* = indicates tours with a park ranger

ROCK HARBOR AREA	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>Rock Harbor Visitor Center</b> Information, books, maps, educational sales materials, camping permits, dive permits, user fee payments, and Jr. Ranger Program.			Daily 8:00 a.m. to 8:00 p.m. – July and August Reduced schedule in May, June, and September				
<b>Interpretive Programs</b> Join a park representative for an exploration of Isle Royale's natural and cultural history.			Check the bulletin board for program schedule.				
<b>MV SANDY TOURS FROM ROCK HARBOR</b> The trails on guided tours are rocky and uneven with some steep climbs and descents; trails may be slippery. Be prepared for cold temperatures and the possibility of rain.	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	For all tours and programs involving the <i>MV Sandy</i> , obtain tickets and information at the Lodge Registration Office. <i>MV Sandy</i> Tours will operate from June 3 through September 5. Fare rates for the various tours are available at the Rock Harbor Lodge and Rock Harbor Visitor Center; children under 12 are charged half-price for the <i>MV Sandy</i> .  Please Note: Sandy Tour modifications may occur if extremely low lake levels are experienced in 2008.						
<b>Hidden Lake/Lookout Louise (\$)**</b> <b>Greenstone Shuttle</b> A 4-mile boat trip on the <i>MV Sandy</i> to Hidden Lake Trailhead followed by a guided 2-mile round trip hike past Hidden Lake up 320 feet to Lookout Louise. View the south shore of Canada and the north shore of Isle Royale. Return with the group or bring a lunch and water and hike 9.4 miles back to Rock Harbor.		9:00 a.m. to 12:30 p.m.		9:00 a.m. to 12:30 p.m.			
<b>Passage Island (\$)**</b> An 8-mile boat tour on the <i>MV Sandy</i> crosses one of Isle Royale's popular shipping lanes. The 2-mile guided round-trip hike leads to Passage Island Lighthouse and explores an area of low moose presence.	1:30 p.m. to 6:00 p.m.				1:30 p.m. to 6:00 p.m.		
<b>North Side Cruise/Minong Mine (\$)</b> Cruise two hours each way along Isle Royale's north shore bays. Pass Blake Point and Amygdaloid Island, with a possible stop at Belle Isle. A guide may be available to lead a 3-mile hike from McCargo Cove to the historic Minong Mine. The hike includes difficult walking over steep piles of loose rock on an unmaintained trail. Trip may include a hike to Pine Mountain, offering excellent views of the Canadian shoreline. Bring lunch and beverage.		9:00 a.m. to 5:30 p.m.					
<b>Edisen Fishery and Rock Harbor Light (\$)</b> Visit the historic commercial fishery with the resident fishery demonstrator and take a quarter-mile walk to the oldest lighthouse (1855) on Isle Royale and enjoy its maritime exhibits.			2:00 p.m. to 6:00 p.m.		9:00 a.m. to 1:30 p.m.		
<b>Captain's Cruise (\$)</b> Explore with the Captain of the <i>MV Sandy</i> , scenic, out-of-the-way destinations, such as Middle Island Passage, Lorelei Lane, Rock Harbor Lighthouse, Davidson Island, and Starvation Point.	2:00 p.m. to 5:30 p.m.						
<b>Raspberry Island/Sunset Cruise (\$)</b> Take a walk along a boardwalk through the spruce bog on Raspberry Island followed by a cruise on the <i>MV Sandy</i> around Scoville and Blake Points to view features like the Canada shoreline, the site of the <i>Monarch</i> shipwreck, and a Lake Superior sunset (after Aug. 15, cruise only).			8:00 p.m. to Sunset in June-July 7:30 p.m. to Sunset in August-September				
DAISY FARM	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>Interpretive Programs</b> Join a park representative for an exploration of Isle Royale's natural and cultural history.			Check the campground bulletin board for program schedule.				
WINDIGO	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>Windigo Visitor Center</b> Information, books, maps, educational sales materials, camping permits, dive permits, user fee payments, and Jr. Ranger Program.			Daily 8:00 a.m. to 6:00 p.m. – July and August Reduced schedule in May, June, and September				
<b>Interpretive Programs</b> Join a park representative for an exploration of Isle Royale's natural and cultural history.			Check the bulletin board for program schedule.				
HOUGHTON	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>Houghton</b> Information, trip planning, books, maps, and other educational sales materials, <i>Ranger III</i> and group camping reservations, boater camping permits, dive permits, and user fee payments.			Open year-round, Monday through Friday 8:00 a.m. to 4:30 p.m., closed for fall and winter holidays. 6/3 through 8/16 open 8:00 a.m. to 6:00 p.m. Monday through Friday, Saturday 11:00 a.m. to 6:00 p.m. 8/19 through 9/13 open 8:00 a.m. to 4:30 p.m. Monday through Friday, Saturday 2:00 p.m. to 4:30 p.m.				
RANGER III	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>Interpretive and Educational Programs</b> While onboard, park staff and guest speakers, weather permitting, will explore Isle Royale's natural and cultural history or topics related to the Lake Superior Basin. Park staff will assist in trip planning, answering questions, and issuing backcountry camping permits.		9:00 a.m. to 2:00 p.m. 6/3 thru 9/9	9:00 a.m. to 2:00 p.m. 6/4 through 9/10	8:00 a.m. to 1:00 p.m. 2:30 p.m. to 7:30 p.m. 7/10, 7/24, 8/7, 8/21, 9/4	9:00 a.m. to 2:00 p.m. 6/6 thru 9/12	9:00 a.m. to 2:00 p.m. 6/7 through 9/13	



# Wilderness Use

*During Isle Royale's early history, visitors risked much to get there. They did not come to vacation; they came to tame the wilderness through mining its copper, harvesting its fish, and logging its timber. The island was never tamed, the resource never conquered, but its landscape holds the scars of these early attempts.*

*Today Isle Royale has reverted back to a primitive wilderness. The environmental conditions historically viewed as a burden are now attracting a new clientele.*

*Today's visitors, as in the past, can still adversely affect this sensitive resource.*

*To minimize your impact on park resources and other visitors, please practice "Leave No Trace" (for additional information request a copy of the park's Leave No Trace booklet or visit [www.lnt.org](http://www.lnt.org)). Where you place your feet is as important as how you treat and dispose of waste. Be part of the solution: help maintain the sense of solitude and preserve the wilderness flavor, a flavor that has the potential to change your life. Proper wilderness use begins with reading, supporting, and putting into practice the following information.*

## Camping

Permits are required for all overnight stays at campgrounds, cross-country sites, docks, or at anchor, regardless of group size or method of travel.

### Party Size Defined

The party size for camping at Isle Royale is divided into two categories. "Individual" parties are defined as a group of six or fewer people. "Group" parties are defined as seven to ten people. There are different requirements outlined below based on party size.

### Individual Camping Permits — parties of six or fewer

Camping for individual parties is on a first-come, first-serve basis. Individual parties can obtain permits onboard the *Ranger III* or upon arrival at Rock Harbor or Windigo Visitor Centers. For trip planning assistance, call (906) 482-0984; write to Isle Royale National Park, 800 East Lakeshore Drive, Houghton, Michigan 49931, or E-mail [ISRO\\_ParkInfo@nps.gov](mailto:ISRO_ParkInfo@nps.gov).

### Group Camping Permits — parties of seven to ten

Advance reservations are required for group camping. For reservations and trip planning assistance call (906) 482-0984; write to Group Reservations, Isle Royale National Park, 800 East Lakeshore Drive, Houghton, Michigan 49931, or E-mail [ISRO\\_GroupReserve@nps.gov](mailto:ISRO_GroupReserve@nps.gov) or make reservations on-line at <https://www.pasty.com/isro/nps2.php>. If your party exceeds ten people, you must split into two groups, each independent and traveling on completely separate itineraries. Groups shall camp in group tent site locations only (see chart on page six). Group leaders shall carry medical information for each group member including known allergies, known medical conditions, and medications currently taken. Organizations may not have more than twenty people camping on the island at any one time and are limited to eighty people per year.

*For additional information, refer to the park's Group Camping brochure.*

## Where to Camp

All campsites on Isle Royale offer tent sites and/or three-sided shelters. Shelter and tent sites are available on a first-come, first-serve basis. Shelters may not be reserved and may not be used solely for cooking or storage of gear. Tents may not be erected at shelter sites. Be gentle with screen doors on shelters to minimize intrusive noise and to prevent damage.

Expect crowded conditions at park campsites during mid-July through August. When sites are full, we ask campers to double up and share empty tent pad space.

Campers must stay in established campsites unless off-trail (cross-country) arrangements are made at the time the permit is obtained. Off-trail hiking and camping is difficult at Isle Royale, and is only recommended for experienced campers.

### Commercial Groups

Organizations that charge trip participants a fee or that compensate members or trip leaders in any way are commercial groups under federal law. This applies to both non-profit and for-profit organizations. Commercial groups must apply for and receive a Commercial Use License to conduct trips in the park. There is a fee for this permit. Applications are only accepted between January 2 and May 15; contact the park's Chief Ranger's Office at (906) 487-7148.

## "Quiet, Please"

Most visitors come to Isle Royale to hear the sounds of nature in a wild setting. Excessive human noise disturbs wildlife and other visitors. Sound travels easily over the water and on the trail. During quiet hours, between 10:00 p.m. and 6:00 a.m. EDT, if people in adjacent campsites can hear your activities, you are being too loud.

## Respect Wildlife

Observe, photograph, and enjoy park wildlife from a safe distance. Use binoculars or a zoom lens "to get closer" to wildlife. If animals flee, become defensive, or change their natural activities in your presence, you are too close! Loons are especially susceptible to disturbance, and may abandon their nests when approached too closely by boats. Cow moose with calves, particularly in the spring, and bull moose during the fall rut can be dangerous; give them a wide berth.

Keep wild animals wild by discouraging them from approaching humans. Practice proper food storage and keep a clean camp. It is illegal to feed, touch, tease, or intentionally disturb wildlife, their homes, nests, or activities. Animals, particularly fox and otter, when habituated to human food, may eventually overcome their natural wariness of humans and may have to be destroyed.

## Human Waste

Proper disposal of human waste helps prevent pollution of water sources, minimizes aesthetic impacts to other visitors and reduces the spread of illness. Never defecate within 200 feet (at least 75 steps) of lakes, streams, trails, gullies, or campsites. In areas without outhouses, select a site that visitors are unlikely to discover. With a small trowel, dig a "cathole" 6 to 8 inches deep and 4 to 6 inches in diameter. Place used toilet paper and fecal material in

the hole. Use toilet paper sparingly. After use, cover the "cathole" with the excavated soil and disguise it with natural materials. Urinate on durable surfaces, such as rocks, gravel, or fallen logs; away from campsites and water sources. Pack out all used feminine-hygiene products, carrying them in plastic bags, doubled to confine odor.

## Showers

The concession operation offers token-operated shower facilities at Rock Harbor (5/23 - 9/6) and Windigo (6/3 - 9/8).

## Waste Water Disposal

### Cleaning Cookware

Most cookware can be cleaned with hot water, a little elbow grease, and sand or other natural scrubbers. Clean cookware at least 200 feet (75 steps) from lakes, streams, trails, gullies, or campsites. Soap is unnecessary for most dishwashing jobs. Even biodegradable soaps take a long time to degrade. Use these products sparingly and keep them at least 200 feet (75 steps) from water sources and campsites. Use a small strainer or screen to remove food bits from the water and pack them out with your garbage. The remaining gray water should be scattered or broadcast over a wide area away from camps and water sources.

### Bathing/Cleaning Clothes

When bathing use soap only if necessary and use it sparingly. Get wet, if used - apply soap, and rinse on land at least 200 feet (75 steps) away from water sources or campsites. Rinse water can be carried in collapsible containers or pots. Clothes can be cleaned by taking them away from water sources and campsites and thoroughly rinsing them with plain water.

## Drinking Water

Potable water is only available at Rock Harbor and Windigo. All surface lake and stream water should be considered contaminated with natural parasites. Drinking contaminated water can make you very sick. Water collected in the park should be boiled for at least one minute or passed through a 0.4 micron water filter followed by chemical treatment. To be assured of no risk of contamination from small bacteria and viruses, all filtered water should be chemically treated. By itself, chemical treatment or filtering is not an effective method of water purification. If you boil your water, bring plenty of stove fuel. If filtering, bring a replacement cartridge for those filters that cannot be cleaned in the field. If you filter water from Lake Superior, change your filter or backflush several times with filtered water before using inland - this will assist in keeping Superior's invasive species from entering the inland lakes.

Precautions should be taken to prevent filters from becoming clogged. Filter water from a pot rather than directly from a lake or creek. Allow the sediment in the pot to settle and filter only from the cleaner water on top.

Dehydration is a problem in hot weather. The Greenstone, Minong, and other trails become hot and dry, and creeks that once offered water may be dry. In addition, there is little or no dependable water available along many trails. To avoid dehydration, be sure to carry a minimum of 2 quarts of water per person. Drink as

much water as possible while near water sources. Start hiking early before the day heats up - on ridges it starts getting hot at 10:00 a.m. on sunny days and gets hotter through late afternoon. Hike at a slower pace than usual and rest in shady spots. Watch for early warning signs of dehydration such as thirst, heavy sweating, fatigue, and a red face. Watch for signs of severe dehydration such as reduced or no sweating, headache, long stretches without urinating, dizziness, and nausea.

## Drinking Water Notice

Last year, blue-green algae blooms occurred in Lake Richie and Chickenbone Lake. Blue-green algae blooms can be toxic, but due to the large variety of blue-green algae species and individual conditions of each bloom, we can't predict if a particular bloom is toxic or not. Filtering does not remove blue-green toxins from the water. Exposure to a toxic bloom can cause a range of symptoms from skin irritation to more serious gastrointestinal or respiratory problems. To be safe, the park recommends that you avoid swimming or filtering water if it appears to have a cloudy blue-green cast, or look's like "pea soup" or green paint. If you see an algae bloom while in the backcountry, please report it to visitor center staff. If algae blooms occur in the future, we will have the latest occurrence information available at our visitor centers. For more information on blue-green algae, visit the MN Pollution Control Agency website, <http://www.pca.state.mn.us/water/clmp-toxicalgae.html>

## Hantavirus

There have been no reported cases of Hantavirus at Isle Royale National Park. Generally, there is a low probability of infection. However, the death rate is very high among infected individuals. The first symptoms are flu-like; the primary symptom is difficulty in breathing and quickly progresses to an inability to breathe.

The deer mouse is the primary carrier of the virus. An infected mouse carries the virus in its urine, saliva, feces, and in the carcass. The primary way humans become infected is through breathing in the virus. Infection can also occur by touching the mouth or nose after handling contaminated materials.

To minimize risk, avoid coming into contact with rodent droppings and burrows, avoid sleeping on bare ground, and store food and garbage in rodent-proof containers. For additional information on Hantavirus contact the Centers for Disease Control and Prevention at 800-532-9929.

## Pack It In, Pack It Out

It starts at home. Through careful meal planning and repackaging of food items, you can reduce food leftovers and trash in the backcountry. Please pack out everything you take in. Leftover food, food-scrap, orange peels, nutshells, apple cores, twist-ties, candy wrappers, fishing line, and cigarette butts must be packed out. If you have food leftovers, either save and eat them later or pack them out. Do not burn, bury or place trash, food scraps or garbage in outhouses. Please help keep the backcountry clean by packing out what you packed in.

North



North

0 5 Kilometers  
5 Miles

Do not use this map for navigation.

CANADA  
UNITED STATES  
ONTARIO  
MICHIGAN

LAKE SUPERIOR

*Voyageur II*  
Grand Portage, Minn. to Windigo  
2 hours one-way  
*Wenonah*  
Grand Portage, Minn. to Windigo  
3 hours one-way  
22mi/35km

*Voyageur II* ferry route  
Windigo to Rock Harbor 5 hours

Rock of Ages  
Lighthouse

Johns Island  
Grace Island  
Washington Island

North Gap  
Beaver Island  
Cumberland Point

Grace Harbor  
Washington Harbor  
Rainbow Cove

Huginn's Cove  
Wendigo Mines  
Feldtmann Lake

Washington Creek  
Sugar Mountain  
Island Mine

Mount Desor  
Little Todd Harbor

Pitts Isle  
Hatchet Lake

Isle Royale  
National Park

Ridge  
Siskiwit  
Malone Bay

Windigo Visitor Center

Windigo  
Mines

Rock Harbor  
to Windigo  
4½ hours

no alcohol

Point Houghton

Fishermen's Home

Long Island

Wright Island

Hay Bay

Big Siskiwit River

Lake Halloran

Houghton Ridge

The Head

Ridge

Siskiwit

Ridge

Point

Houghton

Fishermen's

Home

Long

Island

Wright

Island

Hay

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Island

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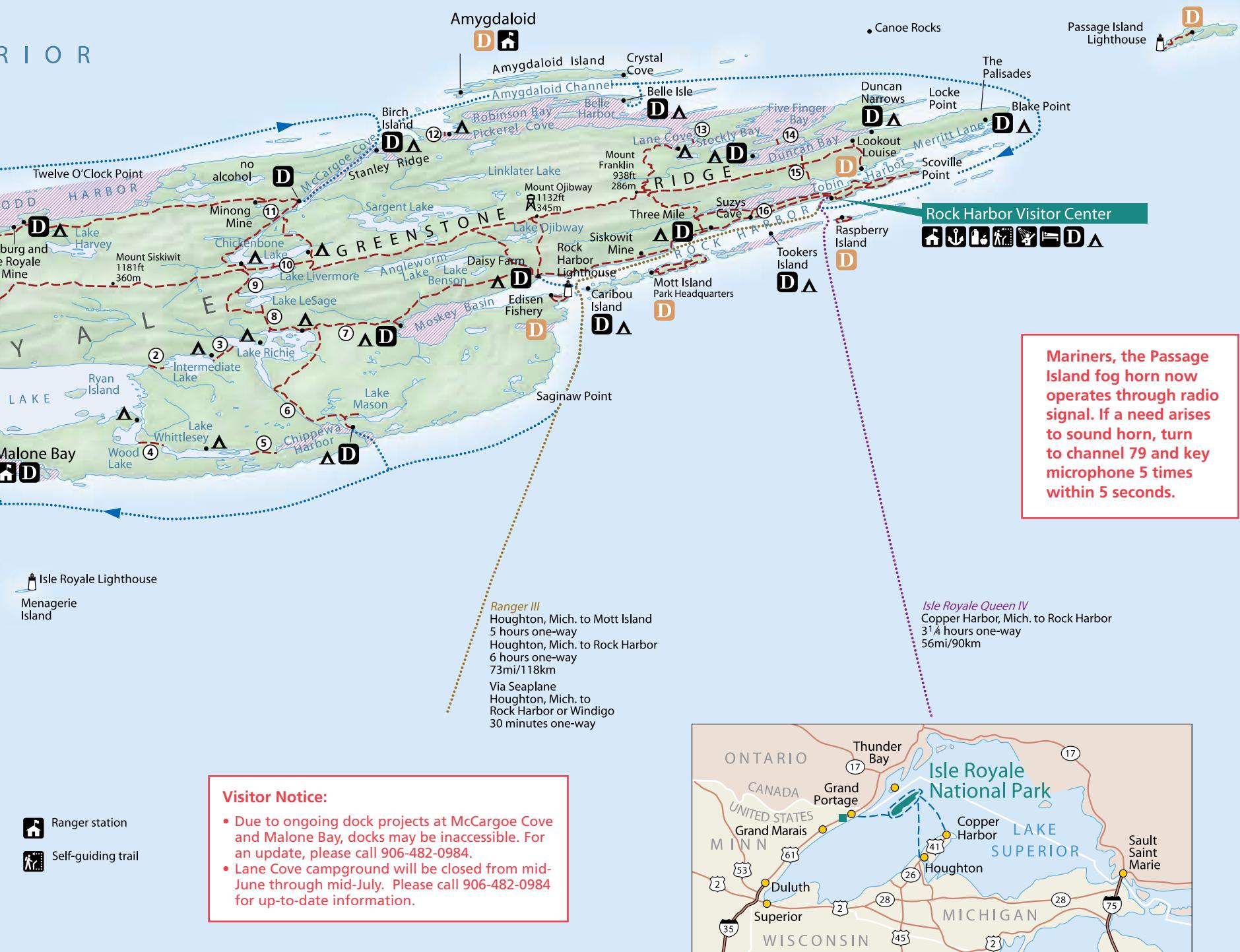
Island

Hay

Bay

Big

Siskiwit



## SAFETY TIPS

- The island's Wilderness and Lake Superior present challenges and potential hazards to the inexperienced or ill-prepared.
- Basic emergency services are available on the island, but contacting rangers for assistance can be difficult. Emergency response and evacuation may take time, requiring you to rely on your own skills and equipment. Most private boaters on Lake Superior have radios and can contact park rangers in an emergency.
- Bring a good first aid kit, a sufficient supply of any needed medications, and clothing appropriate for the time of year.
- Filter with chemical treatment or boil all surface water. Drink plenty of water. When dehydrated, you tire more quickly, don't think clearly, and are more prone to fall.
- Weather and lake conditions can deteriorate quickly and unexpectedly. Hypothermia can occur any time of the year, especially near Lake Superior, where water and air temperatures are cool to cold year-round. Fog and waves can quickly create dangerous conditions for boaters, especially for paddlers.**
- Many people underestimate hiking travel times and overestimate their abilities. Plan shorter, realistic travel days; don't turn your wilderness trek into a forced march.

## FISHING REGULATIONS

Species	Seasons	Minimum Size	Daily Possession Limit	Comment
Lake Trout, Rainbow Trout and Salmon Lake Superior and Siskiwit Lake	April 16 to October 31	10" except 15" for lake trout	5 in any combination, but no more than 3 of any one species	* <sup>1</sup> * <sup>2</sup> Artificial lures only on Siskiwit Lake* <sup>3</sup>
Coaster Brook Trout Lake Superior	May 1 to Labor Day	N/A	Catch and release only in park's Lake Superior waters.	* <sup>1</sup> See Greenstone article page 10 for details
Brook Trout Streams and Hidden Lake	Last Saturday in April to Labor Day	N/A	Catch and release only — No possession allowed	Artificial lures * <sup>3</sup> and barbless hooks * <sup>4</sup> only on all streams and on Hidden Lake See Greenstone article page 10 for details
Rainbow Trout Streams		7"	5 fish with no more than 3 fish over 15"	
Yellow Perch Lake Superior and Inland Lakes	April 16 to October 31	No minimum size	50	Recommend daily limit of 10
Northern Pike Lake Superior and Inland Lakes		24"	5 in any combination, but no more than 2 Northern Pike	Artificial lures only on interior lakes * <sup>3</sup> and streams * <sup>4</sup>
Walleye Lake Superior and Inland Lakes	May 15 to October 31	15"		

For additional fish species, seasons, and creel limits, please review the Michigan Fishing Guide

\*<sup>1</sup> Park boundaries extend 4.5 miles out into Lake Superior from the outermost land areas of the park.

\*<sup>2</sup> For additional trout/salmon fishing information, review the Michigan Fishing Guide.

\*<sup>3</sup> Artificial lure means any lure or fly manufactured in imitation of, or as a substitute for natural bait. It is unlawful to use or possess live bait, dead or preserved bait, organic or processed food, or scented material on interior lakes or streams.

\*<sup>4</sup> Only barbless hooks may be used for fishing the park's rivers, creeks, and streams, and Hidden Lake. Barbed hooks are allowed on all other inland lakes in the park.

# Wilderness Use

## Leave What You Find

Enjoy your discoveries and take them home via photographs, drawings, and memories. Natural objects of beauty or interest such as moose antlers, plants, driftwood, cultural or archeological resources, greenstones, agates, datolite and other minerals, including those found in Lake Superior must be left where they are so others can experience the same sense of discovery. Removing, possessing, or disturbing park resources is prohibited. This may seem like a harmless act, but the cumulative effect of many people doing the same can be quite damaging to park resources. Picking small quantities of berries and wild edibles for personal consumption is permitted.

## Insects

Expect mosquitoes, black flies, gnats, and other insects to peak in June or July. During wet summers, mosquito populations can continue well into August. Bring insect repellent, netting, or other skin barriers. Dry summers will produce an abundance of yellow jackets. Bring an epinephrine kit if you or a member of your party is allergic to bee stings. For others, over-the-counter antihistamines may help counter minor swelling and itching.

## Minimize Use of Fires

Campfires are permitted at only a handful of campgrounds. A backpacking stove is a must; these stoves are lightweight, dependable, easier to use, and less damaging to the park than wood fires. Twig-burning backpacking stoves are permitted. Where campfires are allowed, a metal fire ring is provided; never build your own ring. Gather only dead and down wood away from the camp area. Use small diameter wood no larger than an adult's wrist, as this will burn completely and will eliminate the need to pack a hatchet or saw. Collect wood from a wide area and away from the immediate vicinity of camp. This keeps the camp area from becoming depleted of wood and potential nutrients. Do not break branches or strip bark from standing trees, live or dead. Resist the temptation to gather driftwood or wood from beaver dams or lodges. Do not import firewood; insects and pathogens from an infected wood source could devastate Isle Royale's forests. Do not burn trash in any form. The fire should be kept small. Once finished, make sure the flames and coals are dead out and cold to the touch; double check before going to bed or leaving camp.

## Canoeing/Kayaking

Lake Superior is well known for its cold temperatures, fog, and sudden squalls that can generate waves that could easily swamp a canoe. This along with scarce outer shore landing sites adds to the potential danger. Small, open vessels are discouraged from entering these cold treacherous waters and are encouraged to use the numerous miles of waterways that the inland lakes provide.

Canoeists and kayakers should be familiar with weather patterns and consult the marine forecast at visitor centers before embarking. Be prepared to adjust your schedule to the weather. A portable marine radio is recommended.

**Portages** – Canoe routes and portages are on the northeast half of the Island. Portages are marked with a letter "P" on a post. **PFD** – Every canoeist and kayaker must have a U.S. Coast Guard approved personal flotation device. Wear it; your life may depend on it.

**Boat Rental** – Canoe, kayak, and motorboat rentals are available at Windigo and Rock Harbor. For more information contact the Rock Harbor Lodge. (refer to page 2).

## Loons

Isle Royale National Park is the summer home for over 100 nesting pairs of Common Loons, supporting the only known population which still breeds on Great Lakes waters. These birds nest on land very close to the shoreline, making them highly susceptible to human disturbance. An adult loon who tremolos (the laughing call) is sending a message that you are too close. From mid-May through July 15 (loon nesting season) visitors are to stay at least 150 feet away from islands. Additional areas may be closed due to loon nesting, please check at the visitor centers for updated information.

## Non-Native Species

Isle Royale waters, like all Lake Superior waters, face a growing threat from the invasion of non-native species. Once species like sea lamprey, zebra mussels, or spiny water fleas enter an area, they out-compete native species, causing large-scale changes in the ecosystem.

Two invasive species, the sea lamprey and the spiny water flea, have already established a presence in Isle Royale waters. The spiny water flea presently is found only in Lake Superior. The park is concerned it may enter the inland lakes. Once established, its spines harm predator fish and they disrupt the zooplankton population, the basic food source for many fish species.

Zebra mussels have not established a presence on Isle Royale. Their potential to cause catastrophic problems cannot be overstated. If zebra mussels were to enter the inland lakes it is estimated they would cover nearly every habitable surface on an inland lake floor within two years.

## What can you do to stop the spread?

### Boaters

Drain live wells and bilge on land - remove transom water, lake water, and unwanted bait from your boat - wash equipment with warm water and use a high-pressure sprayer or wait five days before launching for Isle Royale.

### Backpackers

Prior to departure, clean your camping gear, clothing, and boots.

### Canoeists and Kayakers

Remove weeds, algae, and other plant and animal materials from your boat - dry vessels before your island departure - clean and dry watercraft when moving from Lake Superior waters to inland lakes.

### Anglers

Clean fishing gear before island departure - When moving from Lake Superior to inland lakes, clean gear and change line spools.

### Divers

Wash all dive gear in warm chlorinated tap water - Disinfect your wetsuit with a special-purpose shampoo - dry all dive gear and wetsuit for seven days before island departure.

For additional information on invasive non-native species and the preventative measures that you can take - request the park's brochure "Aquatic Invaders: Stop the Spread & Spread the Word." Also available online at [www.irnha.org](http://www.irnha.org).

## Wheeled Vehicles/Devices

Wheeled vehicles (except for wheelchairs) or other mechanical forms of transportation are not allowed on trails. This includes bicycles and portaging devices.

## Weapons, Traps, & Nets

The use or possession of weapons, traps, and nets is prohibited. Weapons include any implements designed to discharge a projectile or missile in the air or water. Fireworks are prohibited.

## Pets

Dogs, cats, and other pets are not allowed. This includes pets on boats within the park boundaries, which extend 4 1/2 miles into Lake Superior from the outermost land areas of the park. Visitors bringing pets to Isle Royale will be required to leave immediately. Pets disturb wildlife and can transmit diseases, particularly to wolves. Special conditions apply to guide dogs. Please contact the park for further information.

## Marine Warning:

*Boaters beware, Lake Superior levels are significantly down. Use caution in your travels, especially around docks and reefs.*

## Boating

All boaters staying overnight at anchor, at docks, or in campgrounds must first obtain a camping permit. Lake Superior offers challenging and often dangerous weather in the form of dense fog, high winds, waves, and thunderstorms. Combine this with rocky reefs, limited safe harbors, and Isle Royale's remoteness, and it pays for you, your crew, and your boat to be shipshape.

For additional information on boating and trip planning please request the park's Isle Royale Boating Guide. In addition to Houghton, Rock Harbor, and Windigo, boaters may obtain Isle Royale camping permits and pay user fees while using our on-line service at <https://www.pasty.com/isro/nps.php>. Please note: the U.S. Forest Service Ranger Station in Grand Marais, Minnesota has discontinued processing permits and collecting fees for Isle Royale National Park.

**Restricted Water Activities** – Water skiing and personal watercraft including vessels commonly referred to as jet skis, waverunners, sea-doos, wet bikes, or surf jets are prohibited. Since all of the park's inland lakes are located within designated Wilderness, they can only be explored by paddling. Vessels with motors (even if not in use) are prohibited on inland lakes and streams.

**Portable Generators, Electronic and Motorized Devices** – Operation of electronic and motorized devices such as stereos, televisions, radios tuned to commercial stations and portable generators is not permitted except in developed and open-water motorized zones. Developed areas include the

Windigo and Rock Harbor developed areas, and the Mott Island Headquarters area. Open water motorized zones include Lake Superior waters outside of designated "quiet/no wake waters".

**On-Board Generators** – The operation or use of permanently installed (by the boat manufacturer) on-board vessel generators is allowed between 6:00 a.m. and 10:00 p.m. Eastern Daylight Time in developed zones and at the following docks: Beaver Island, Belle Isle, Caribou Island, Grace Island, Hay Bay, Malone Bay, Rock Harbor, and Windigo. On-board generators may not be operated or used at the following public docks: Birch Island, Chippewa Harbor, Daisy Farm, Duncan Bay, Duncan Narrows, McCargo Cove, Merritt Lane, Moskey Basin, Siskiwit Bay, Three Mile, Todd Harbor, and Tookers Island. Vessels at anchor within Quiet/No Wake Zones may operate on-board generators between 6:00 a.m. and 10:00 p.m. Eastern Daylight Time, except when anchored within 1/4-mile of a designated park campground.

**Quiet/No Wake Zones** – These zones promote a quality visitor experience by providing relatively tranquil, natural marine surroundings. Within the zone, vessels must not exceed 5 mph or create a wake. In flat, calm water, this means not making a wake or traveling no faster than 5 mph. In a one foot sea, a boat could travel up to a speed that would create a one foot wake. Quiet/No Wake Zones include specified areas near Todd Harbor, Johns Island, Barnum/Washington Islands, Hay Bay, Wright Island, Malone Bay, Chippewa Harbor, Conglomerate Bay, Moskey Basin, Lorelei Lane, Tobin Harbor, Merritt Lane, Passage Island, Duncan Bay, Five Finger Bay, Lane Cove, Robinson Bay, Pickerel Cove, Belle Harbor, Crystal Cove, and McCargo Cove. Consult boater's maps and brochures available at Park Visitor Centers and on-board the *Ranger III* for specific information.

**Alcohol Ban** – Open containers of alcohol are prohibited in campgrounds, on docks, and onboard docked vessels at both Siskiwit Bay and McCargo Cove.

**Pollution Prevention** – Head pump-out service is available at Windigo and Rock Harbor when the concession operation is open. Federal regulations prohibit the discharge of any waste, including gray water, into park waters. Vessels carrying spare fuel in portable containers must use legally approved containers. Fuel may not be stored on docks.

**Customs** – All vessels arriving from Canada (U.S. or Canadian) must clear U.S. customs at Windigo or Rock Harbor Visitor Center. As of 01/31/08, verbal declaration of citizenship for US and Canadians traveling across the border will no longer be sufficient, a government issued photo ID and birth certificate will be required. For additional information go to [www.cbp.gov](http://www.cbp.gov).

**Divers** – Please refer to your dive permit regulations concerning compressor use.

**Fuel** – Gasoline is sold from June 3 through September 8 at Windigo; gasoline and diesel fuel are sold from May 16 through September 6 at Rock Harbor. Diesel fuel is not available at Windigo. Early and late season service or fuel may be obtained at Windigo and Mott Island if personnel are available.

**Greg Blust**  
Supervisory Park Ranger

# The Hunt for Moose Bones

In 2008, for the 21st year, Earthwatch volunteers will assist with wolf-moose research on Isle Royale. Earthwatch is an international non-profit organization that connects researchers with volunteers willing to donate their time, energy, and money. Isle Royale casts its spell over Earthwatch volunteers just as it does other visitors. Many come back multiple years. I have been fortunate to participate in fifteen trips.

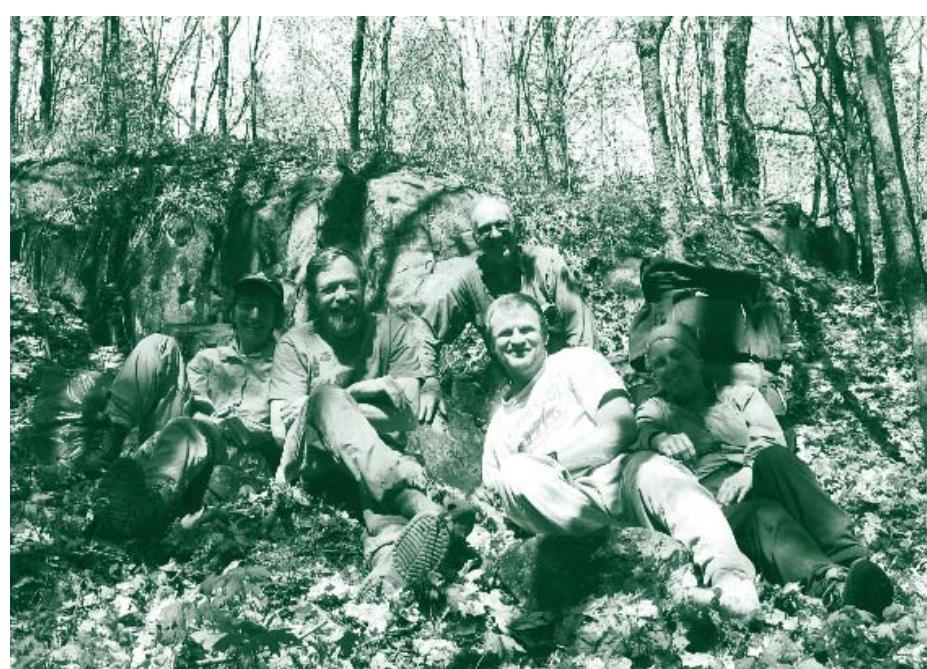
The Isle Royale trips are among the most strenuous of the Earthwatch trips. Teams of three to five volunteers and their experienced leader spend a week hiking off-trail. We start with backpacks of forty pounds or more, carrying everything we will need. As our packs get lighter with the consumption of food, they are likely to get heavier with the addition of collected moose bones. If a skull has antlers attached, it adds significant weight. Frequently the week ends with heavier packs than at the start.

The primary role of the volunteers is looking for moose bones. We collect the skull, mandibles (lower jaw), and a metatarsal (lower rear leg bone), and any bones that show evidence of

disease. We only collect jaw bones if there are teeth present. The incisors in the front of the lower jaw are prized for use in determining the moose's age. We make notes about the location of the bones and the conditions in the area; and catalogue exactly what bones we find.

In some cases we are locating bones that researchers spotted the previous winter, or bones or carcasses that have been reported by park staff or visitors. However, the majority of the bones we find simply by hiking through brush and swamps. Climbing over frequent windfalls with a full pack can be challenging. Navigating through swamps is confusing and difficult. Finding a bone is always welcome, because you get to drop your pack to look for other bones. Usually the bones have been well-cleaned by the wolves, ravens and other scavengers, and time.

There is always plenty to do. Live moose are observed to determine extent of hair loss. Fox and snowshoe hare are counted. Fresh wolf scat is collected for DNA analysis. In early years, we collected data from vegetation plots. In recent years, we have measured shed antlers.



Rolf Peterson states that Earthwatch teams make an important contribution to the wolf-moose study through their work in the field. In addition, they become ambassadors for the study. Many have given presentations or written articles regarding their experiences and the project. I have been on teams with members from Canada, Scotland, Northern Ireland, Germany, Italy, and coast to coast in the United States.

During my years of involvement, it has been interesting and rewarding

to follow the research findings and to see what volunteers are contributing. I plan to be back for trip number sixteen in 2008.

**Ron Eckoff**  
**Earthwatch Volunteer**

For more information about Earthwatch and volunteer trips to Isle Royale National Park go to [www.isleroyalewolf.org](http://www.isleroyalewolf.org) or [www.earthwatch.org](http://www.earthwatch.org).



## Following in the Footsteps of Wolves

During warm seasons on Isle Royale, my attention is liable to dart away on the flight of a single insect. Vivid berries and brightly-hued flowers demand notice; to walk is to unravel a tangle of vegetation with my eyes. But during winter, distractions are eliminated. Winter emphasizes only the most recent occurrences. Ice crystals freeze movement. Snowstorms blot out excess. But tracks, recalling what motion winter does allow, can be protectively preserved by an unbroken bed of soft snow.

Unusually thin snow cover in January 2007 hindered aerial tracking of wolves, and researchers had yet to spot the Middle Pack. My destination was a nameless area on the north shore, halfway between Huginnin Cove and Finlander Reef, where I hoped to collect urine and pellet samples from each moose whose tracks I crossed.

A dusting of snow had fallen, but unfortunately not enough to aid spotting from the plane. On foot, fresh snow and bright



sun made the winter woods a vacant expanse, brilliant and unmarked. Few red squirrels had even defiled the sparkling uniformity, and it seemed a pity to mar the surface with my footsteps. After walking a while, I spotted a line of marks ahead; marks that had not been stamped by moose hooves. There, in Middle Pack territory, glinted the fresh tracks of wolves.

A pack traveling in line — now with me following their tracks — swiftly traced stream beds, eluded ravines, and smoothly ascended banks. And a lot happened along the way! Here, an individual quit the queue. There, two tussled in a hollow. One old spruce received a spray of urine. Down an ice-crusted slope twenty-four paws had gripped securely, I slid. In a clearing, the



nose-to-tail, single-file pattern fanned out and six wolves walked flank-to-flank, until they were realigned by perilous ground and leaning trunks. Inside the cedar swamp, an impression of a hind-paw balanced on a narrow root. Though I traveled well in excess of my ordinary pace, I never tired, for it was thrilling to feel the exuberance of a wolf pack's motion.

But I needed to return to the warmth and good cheer back at camp. The pilot and researcher searching overhead for the Middle Pack would want to know about these fresh tracks, and soon! I made it back to Washington Harbor — though now, without the guidance of wolves, my route was awkwardly direct. The plane soon located six wolves near

Lake Desor, several miles past where I had parted from their tracks.

It has been said those involved in the wolf-moose study for a long time share a particular wise glint in their eyes. After this brief acquiescence of my own to the tracks of one wolf pack, I better understand the success of the study. It has followed the paths of wolves and moose unpresumingly, eagerly gliding behind each fresh lead to sometimes unknown destinations. That wise glint may simply be the reflection of so many fresh tracks in snow.

**Beth Kolb**  
**Biological Technician and  
Winter study volunteer,  
2006 and 2007**

# Fishing at Isle Royale

A Michigan fishing license is required for fishing in Lake Superior, including narrow bays and harbors, and when transporting fish from the island to the mainland. If you are under 17 years of age, you may fish without a license. Licenses are not required to fish on the inland waters of Isle Royale; possession limits are the same as those set by the State of Michigan. **Also see additional information on this page regarding special brook trout regulations.** Anglers should refer to the Michigan fishing regulations for possession limits and detailed license requirements for Lake Superior (also see the chart on page 7 for a brief guide to regulations). Only 24-hour licenses are available on the island and only when concession services are open. You may purchase a Michigan fishing license online at [www.michigan.gov/dnr](http://www.michigan.gov/dnr).

**Marine Warning:** Boaters beware, Lake Superior levels are significantly down. Use caution in your travels, especially around docks and reefs.

## Special Brook Trout Regulations

Recent surveys indicate populations are dangerously low and may be at risk of disappearing unless they have more protection. The National Park Service and Michigan DNR have implemented protective regulations at Isle Royale in order to help with the recovery of this once common fish.

Brook Trout can be identified by their nearly square tail and wormlike pattern on the back and dorsal fin. If you're uncertain about the species you catch, return it to the water.

### Lake Superior Waters (extend 4.5 miles out from the island)

Catch and release only for all brook trout, including all bays and harbors.

### Inland Waters

Catch and release only in all streams and Hidden Lake. Only artificial lures and barbless hooks can be used in all streams and Hidden Lake.

# Viral Hemorrhagic Septicemia

Viral Hemorrhagic Septicemia (VHS) is an exotic virus that could have severe impacts on fish in the Great Lakes. Below are some facts about the virus. The park is currently developing prevention and response efforts based on additional information about the disease and risks to the park's fish community. Check the park website or with Visitor Center prior to your trip for additional information

- VHS is a disease that may affect up to 37 fish species – Lake Trout and Coaster Brook Trout are at risk. The disease is often lethal, and can result in massive die-offs. Once VHS has invaded a body of water, there is no known way to eliminate it.
- VHS is in the lower Great Lakes, Lake St. Clair, and a few inland lakes of New York, Michigan, and Wisconsin. The virus has yet to be detected in Lake Superior.
- VHS does not affect humans, but humans are advised against consuming any fish suspected of

carrying any disease. Fish that are affected by VHS may or may not show external signs such as red blotchy areas on the skin, redness near the base of fins, and bulging eyes with redness around the eye. Internal organs such as the liver or spleen often show signs of hemorrhaging. **If you catch a fish with any of these signs at the park, please keep it, note the location and date that you caught it, and report it as soon as possible to a Visitor Center or park ranger.**

- Live and dead fish bait, fish parts, and fish eggs from infected fish are some of the ways that the disease can be transmitted to wild fish populations. Freezing, salting, or borax treatment of eggs does not kill the virus. Check the park website or Visitor Center for bait use regulations during the 2008 season in park waters.
- Boat water in bilges and live wells from waters where VHS is present

can spread the disease. Boaters should empty their bilges and live wells prior to leaving a mainland port, and again before entering park waters. Please ask for any specific updated guidelines and regulations before your trip.

- The park will be developing more informational material for visitors that will be available via its website and Visitor Centers.
- The following websites provide information on VHS and how you can help.

Isle Royale National Park website: <http://www.nps.gov/isro/>

Michigan Sea Grant: <http://www.miseagrant.umich.edu/ais/fish-diseases.html>

Michigan DNR: <http://www.michigan.gov/dnr/o,1607,7-153-10364---,oo.html>

Wisconsin DNR: <http://dnr.wi.gov/fish/vhs>

## Fishery Conservation

With its multitude of islands and bays on Lake Superior, as well as several lakes and streams on the interior of the island, Isle Royale provides many opportunities for outstanding recreational fishing for wild, native fish. How can you help to conserve and minimize damage to the Isle Royale fishery?

- Catch only what you plan to keep or eat. Catch and release, while encouraged, can be damaging and very stressful on fish.
- Know the minimum size of fish so that if they are too small they can be quickly released.
- Release larger fish and keep medium size fish to insure future productivity. Larger, more mature fish produce more offspring than smaller fish.
- Instead of killing trophy fish, consider a modern graphite mount produced from a picture of the fish.
- Return fish to the water as soon as possible. While unhooking them, keep fish in the water as much as possible.
- If fishing from shore, try to remove hooks while the fish are in the water; don't drag them up on the bank.
- Try not to handle fish, but if you need to, do so with a wet hand. Release handled fish gently by allowing them to swim from your hands rather than throwing them back into the water.
- Do not squeeze the fish or place fingers in the gills, since a torn gill can cause the fish to bleed to death.
- Remove the hook gently. Pliers work best. Cut the line near the hook if a fish is deeply hooked. A steel hook will decompose in time.
- Use only artificial lures (required in inland waters) as exotic species can

accidentally be introduced by using live bait and live bait are often swallowed deeper resulting in more damage to fish.

- Use single, barbless hooks or bend down the barbs on the hooks. Using larger spoons when fishing for larger fish such as Northern Pike will help prevent catching undersize fish.
- If moving from Lake Superior to an inland lake, change to a different spool of line. This will help prevent spread of the spiny water-flea, an exotic aquatic invertebrate that competes with juvenile fish for food. It has been found in Lake Superior waters of the park but is not yet documented in inland waters. Spiny water fleas can adhere to fishing line and be easily spread to other bodies of water.

### Disposal of Fish Remains

At Rock Harbor, please use the fish cleaning station. At other locations, the preferred method is to dump remains chopped up into pieces 4" or less in deep (50' or deeper) water. This reduces the unsightly remains and odors around campgrounds and the unnaturally large gathering of gulls at these sites. At inland lakes the preferred method of disposal is to chop fish remains into pieces 4" or less and deposit into deep water via canoe. If you do not have a canoe, you could request the assistance of a canoeist. The alternate method is to chop up remains into pieces 4" or less and move at least 200 feet (75 steps) from campground and throw remains as far as possible into deep water. These steps will eliminate the potential for attracting and feeding wildlife at campgrounds. Please clean fish away from docks and campgrounds. Do not throw remains in shallow water near shore or throw remains to gulls.



### Transporting Fish to the Mainland

You are allowed only one day's catch in your possession. While the license holder remains on the Island, Michigan Department of Natural Resources (DNR) allows those with DNR permits to ship legally-taken fish on the *Ranger III*, *Isle Royale Queen IV*, *Wenonah*, *Voyageur II* and the seaplane. This one-time per year permit covers up to a single day's catch limit. Fish must be claimed when the ferry service arrives at their destination. Permits may be obtained by writing: Department of Natural Resources, 427 U.S. 41 North, Baraga, Michigan 49908-9627 or calling (906) 353-6651.

Fishermen returning on the *Ranger III* must check in their fish with the ship's purser. Fish cannot be transported in coolers on private boats onboard the *Ranger III*.

### Fish Consumption Advisory

Contaminants discovered in the Park ecosystem remind us that although Isle Royale is remote, it is part of a global system. Ongoing research in six inland lakes (Sargent, Siskiwit, Eva, Shesheeb, Wagejo, and Angleworm) shows fish with mercury levels exceeding the State of Michigan fish consumption advisories.

For information on fish consumption advisories check with park staff or visit the Michigan Department of Community Health website at: <http://www.michigan.gov/mdch>

Jay Glase, Fishery Biologist, and Larry Kangas, Chief, Law Enforcement Division

# Transportation Services

Rates and schedules are subject to change.

## FROM HOUGHTON, MICHIGAN



### RANGER III

National Park Service owned and operated.

5 hours one-way to Mott Island and Windigo,  
6 hours one-way to Rock Harbor, 165 ft., 128  
passenger vessel

#### SCHEDULE (Eastern Daylight Time)

June 3 thru September 13  
■ Houghton to Rock Harbor  
Tues. & Fri. 9:00 a.m.  
■ Rock Harbor to Houghton  
Wed. & Sat. 9:00 a.m.

**Note:** The Ranger III's Saturday departure on  
July 26 has been scheduled for Sunday, July 27.

#### NEW FOR 2008 – WINDIGO RUN

Same day round-trip on Thur.

**July 10, 24, August 7, 21 and**

**September 4**

Houghton to Windigo ..... 8:00 a.m.

Windigo to Houghton ..... 2:30 p.m.

#### FARES ONE-WAY

**Low Season** 6/3 thru 7/14 & 8/16 thru 9/13

Adults..... \$50.00

**High Season** 7/15 thru 8/15

Adults..... \$60.00

**All Season**

Children (7 thru 12 years) ..... 20.00

Children (age 6 and under) ..... FREE

Boat (less than 18') ..... 85.00

Boat (18' to 20'0") ..... 135.00

Disabled Boat (20'0" to 26'0") ..... 350.00

Canoes/Kayaks ..... 20.00

Canoes/Kayaks over 20'0"

or over 90 lbs. ..... 50.00

Outboard Motor ..... 15.00

100 lbs. gear per passenger ..... FREE

Additional freight after 100 lbs ..... \$9.00/100wt.

#### GROUP RATES ONE-WAY

(A party of seven or more)

Adults..... \$50.00

Children (7 thru 12 years) ..... \$20.00

#### SPECIAL RATES

**Windigo same day round-trip**

Adult round-trip is \$75.00

**Ranger III Birthday Special**

Adult round-trip of \$50.00

from June 17 thru June 21

**Wolf/Moose 50<sup>th</sup> Celebration**

Adult one-way \$50.00 – round-trip is \$75.00

from July 25 through July 27

**Ranger III Lodge Packages**

For reservations contact the Rock Harbor

Lodge at 866-644-2003.

#### RESERVATIONS

Full payment required for confirmed reservation.  
National Park User Fee is payable at time of  
ticket purchase. Major credit cards accepted.  
Reservations accepted on or after January 2.

#### CANCELLATIONS

Refunds, minus a 15% processing fee, if cancellation  
is received 3 days prior to sailing and tickets  
are returned. No refund within 3 days of sailing.

#### AMENITIES

Free parking • Largest of the ships • Crew  
of 9 • Two decks for passenger use • Three  
staterooms available • Ranger III Grill •  
Interpretive Programs • Backcountry Permits  
issued and orientation given onboard • Four  
lounges • Handicap Accessible Bathroom

#### FOR INFORMATION OR RESERVATIONS CONTACT

Isle Royale National Park

800 East Lakeshore Drive

Houghton, MI 49931-1869

#### On-line Reservations

<https://www.pasty.com/isro/nps3.php>

**Phone:** (906) 482-0984

**Fax:** (906) 482-8753

**E-mail:** ISRO\_Ranger3Reserve@nps.gov

**Website:** [www.nps.gov/isro](http://www.nps.gov/isro)

## FROM COPPER HARBOR, MICHIGAN



### ISLE ROYALE QUEEN IV

3 hours one-way, concession operated,  
100 ft., 100 passenger vessel

#### SCHEDULE (Eastern Daylight Time)

■ Copper Harbor 8:00 a.m.  
■ Rock Harbor 2:45 p.m.  
5/12 thru 5/30 ..... M & F  
6/2 thru 6/30 ..... M, T, Th, F, Sat  
7/1 thru 7/14 ..... M, T, Th, F, Sat, Sun  
7/15 thru 8/15 ..... Every Day  
8/16 thru 8/31 ..... M, T, Th, F, Sat, Sun  
9/1 thru 9/29 ..... M & F

#### FARES

#### ONE-WAY

5/15 thru 7/14 & 8/16 thru 9/29

Adults..... \$54.00

Children (1 thru 11)..... 27.00

7/15 thru 8/15

Adults..... \$62.00

Children (1 thru 11 years)..... 31.00

Infants (under 1 year)..... FREE

Canoes/Kayaks ..... 25.00

Double Kayaks ..... 40.00

Motors (under 5 hp) ..... 5.00

Motors (5 hp and over) ..... 15.00

Air Tanks (each) ..... 5.00

70 lbs. gear per person..... FREE

#### RESERVATIONS

A full-fare deposit is required for each  
reservation. All canoes and kayaks require  
advance reservations. Most credit cards  
accepted.

#### CANCELLATIONS

There is no refund if canceled less than 3 days  
before sailing. Cancellations received with more  
than 3 days notice will be sent an 85% refund.  
If canceling a group of 10 or more, two weeks  
notice is required.

#### MISCELLANEOUS

Parking fee • Limited snacks • Freight, canoes,  
etc. carried for our passengers only • Due to  
weight restrictions, luggage limited to 75 lbs. per  
passenger • Phone and letter reservations only  
• Email and faxes are for information requests  
only

• The \$4 per day National Park User Fee is  
collected on the Queen IV as she sails to Isle  
Royale and is payable in cash, check, or money  
order only.

Motor Boaters be advised that the Queen IV is  
presently not equipped to carry motor boats.  
Boaters should contact the Ranger III for passage.

#### FOR INFORMATION OR RESERVATIONS CONTACT

The Isle Royale Line, Inc.

P.O. Box 24, Copper Harbor, MI 49918

#### Phone:

(906) 289-4437

#### Fax:

(906) 289-4952

#### E-mail:

Captainink@pasty.net

#### Website:

[www.isleroyale.com](http://www.isleroyale.com)

## FROM GRAND PORTAGE, MINNESOTA



### VOYAGEUR II

Grand Portage to Windigo - 2 hours one-way,  
Windigo to Rock Harbor - 5 hours one-way,  
concession operated, 60 ft. vessel

#### SCHEDULE (Central Daylight Time)

■ Grand Portage to Rock Harbor via Windigo/Mc-  
Cargoe Cove/Belle Isle  
5/10 thru 5/24 ..... W & Sat 8:00 a.m.  
5/26 thru 9/15 ..... M, W & Sat 8:00 a.m.  
9/17 thru 10/15 ..... W 8:00 a.m.  
■ Rock Harbor to Grand Portage via Daisy Farm/  
Chippewa Harbor/Malone Bay/Windigo  
5/11 thru 5/25 ..... Th & Sun 8:00 a.m.  
(9:00 a.m. EDT)  
5/27 thru 9/16 ..... Tue, Th & Sun 8:00 a.m.  
(9:00 a.m. EDT)  
9/18 thru 10/16 ..... Th 8:00 a.m.  
(9:00 a.m. EDT)

**Windigo Round-Trip – Sat. & Sun. 9/20 thru 10/19**

**Grand Portage to Windigo ..... 9:30 a.m.**

**Windigo to Grand Portage ..... 3:00 p.m.**

(4:00 p.m. EDT)

#### FARES ONE-WAY

Grand Portage to Windigo ..... \$59.00

Children (3 thru 11 years) ..... 39.00

Canoes/Single Kayaks ..... 30.00

Tandem, Triple Kayaks ..... 34.00

Outboard Motors  
(empty of fuel) ..... 26.00

Fuel Tanks for Outboard  
Motors (empty of fuel) ..... 6.00

Air Tanks (each) ..... 10.00

40 lbs. Gear per passenger ..... FREE

Additional freight  
after 40 lbs. ..... \$30.00/100 lb.

#### RESERVATIONS

Full payment required for confirmed reservations.

Major credit cards accepted. National Park User

Fee is payable at time of ticket purchase. Refund

is 85% of fare, provided cancellation is received

at least 3 full days (two weeks for groups of

seven or more) prior to departure date.

#### MISCELLANEOUS

Parking fee • Hot coffee available • Freight ship-  
ments must be arranged in advance

• Fishing poles must be in protective cases

• Hard gear must be in securely closed packs.

#### FOR INFORMATION OR RESERVATIONS CONTACT

Grand Portage-Isle Royale Transportation Line, Inc.

P.O. Box 10529, White Bear Lake, MN 55110

#### Phone:

(651) 653-5872 – Oct thru April

(218) 475-0024 – May thru Oct

#### E-mail:

sivertjen@hotmail.com

#### Website:

[www.isleroyaleboats.com](http://www.isleroyaleboats.com)

**Phone:** (651) 653-5872 – Oct thru April

(218) 475-0024 – May thru Oct

#### E-mail:

sivertjen@hotmail.com

#### Website:

[www.isleroyaleboats.com](http://www.isleroyaleboats.com)

## FROM GRAND PORTAGE, MINNESOTA

## Join the Isle Royale Natural History Association & Support Isle Royale National Park Programs

The Isle Royale Natural History Association, in partnership with the National Park Service, promotes the public's understanding and appreciation of Isle Royale National Park and Keweenaw National Historical Park through education and research.

By publishing and selling products about Isle Royale National Park and Keweenaw National Historical Park, we educate people about these special places and raise funds that are re-invested in the parks to support research and interpretive programs.

Every year the Isle Royale Natural History Association contributes approximately \$25,000 in cash and in-kind aid to Isle Royale National Park.

### YOU CAN HELP....

You can support the work of the Isle Royale Natural History Association and our partner parks by becoming a contributing member of our organization. Your tax-deductible contribution will help us share the stories of Isle Royale National Park and Keweenaw National Historical Park with people of all ages, around the world.

#### Membership levels are:

Life	\$1000	(Payable in 5 installments)
Patron	250	
Sustaining	100	
Supporting	50	
Household	35	
Individual	25	

#### IRNHA member benefits:

- a 10% discount on all purchases from IRNHA outlets and [many other National Park Visitor Centers throughout the U.S.](#)
- 3 issues of Wolf's Eye newsletter,
- park newspapers,
- invitations to park programs, trips, and events,
- monthly e-mail park news updates.

Become a member today!

Call us at 800-678-6925, or join online at [www.irnha.org](http://www.irnha.org)

## The Isle Royale Natural History Association:

Sells books and other educational products in visitor centers at Houghton, Rock Harbor & Windigo;

Windigo Visitor Center



Conducts Volunteer Service Projects on Isle Royale;

2007 IRNHA Service participants and NPS staff at the newly painted privy



Conducts educational programs and field trips.

Friends of Fashion presented a Women of Isle Royale show at the 2007 50<sup>th</sup> anniversary celebration.



Ruth Baker doing some plant identification on 2007 IRNHA Botany Trip.



## ISLE ROYALE NATURAL HISTORY ASSOCIATION PRODUCTS

### BOOKS, MAPS & MORE

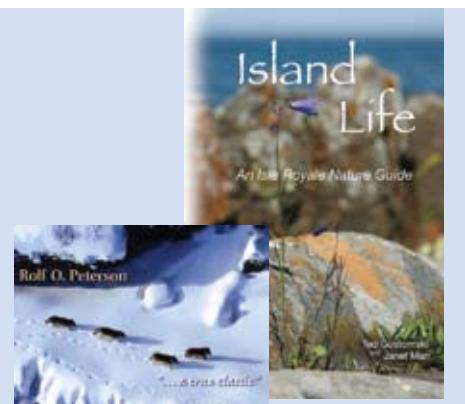
Your purchases help support Isle Royale National Park!

#### NEW!! Island Life: An Isle Royale Nature Guide

**\$19.95**

A complete guide to the common flora and fauna of Isle Royale in one easy-to-use and easy-to-carry volume. Over 350 species of mammals, birds, fish, reptiles, trees, and flowers, each illustrated with a color photograph or drawing. 168 pages.

Authors: Ted Gostomski & Janet Marr



#### NEW Release!! The Wolves of Isle Royale: A Broken Balance

**\$29.95**

This classic firsthand account of the Isle Royale predator/prey study is back in print in a new paperback edition. Illustrated with over 100 photographs, this book reveals the true nature of the little-understood wolf and some of the secrets of this one-of-a-kind 50-year study. 192 pages. Author: Rolf Peterson



#### NEW!! Ecological Study of Wolves on Isle Royale 2007-2008

**\$3.95**

This year's report from the winter study on Isle Royale. Includes latest information on the island's wolf and moose populations.

Annual Reports from 1989-2006 also available.

Author: Rolf Peterson



#### NEW!! Wolf/Moose Study Poster & Lapel Pin

**\$12.95**

Limited edition poster and pin celebrating the 50th anniversary of the Isle Royale wolf/moose study. Poster is 15" x 24". Pin is 3/4" x 1 1/16".



#### Trails Illustrated Map

**\$9.95**

Topographic map includes valuable wilderness tips and Leave No Trace guidelines, along with updated trails, trailheads, points of interest, campgrounds, and much more. Printed on waterproof, tear-resistant material with a plastic coating for extreme durability. Measures 4" x 9" folded and 38" x 25" fully opened. Scale = 1:50,000. Updated 2006.



#### NOAA Lake Charts

**\$20.25**

Official navigation charts for Isle Royale, Lake Superior, Grand Portage, the Great Lakes, Keweenaw Peninsula, and Portage Canal. Soundings in feet. Folded or rolled. Add \$3.00 for mailing tube if rolled.



#### Isle Royale National Park: Foot Trails and Water Routes

**\$15.95**

The park's authoritative illustrated guidebook. All the information you need to plan everything from a series of day hikes to a two-week trek that circles the park. A must for planning your backpacking or canoeing trip to Isle Royale. 136 pages. Third edition. Author: Jim DuFresne



#### Superior Wilderness: Isle Royale National Park

**\$16.95**

A natural history of Isle Royale for the layperson, emphasizing the ecology of the island, the relationship between its plants, animals and physical environment. Color photographs and an extremely readable text. Maps, photos, charts, illustrations. 171 pages. Author: Napier Shelton



#### Fishes of Isle Royale

**\$5.95**

This complete fishing guide includes information on the five fish habitats on Isle Royale, a full description of all major species with illustrations, keys to fish identification, and an annotated list of fishes. Charts, maps. 58 pages.



#### Isle Royale: A Photographic History

**\$29.95**

The history of Isle Royale from early exploration in the 1600s to the birth of the national park as told through historical photos and maps. Chapters: Exploration, Copper Mining, Navigation, Commercial Fishing, Recreation, and Creating a National Park. 160 pages. Authors: Tom & Kendra Gale



#### The Geologic Story of Isle Royale National Park

**\$10.95**

Classic study of Isle Royale's geologic history and landscape, the shifting of rocks and specific minerals which produced one of the most beautiful islands in North America. Maps, photos, and illustrations. 66 pages. Author: N. King Huber



#### Diaries of an Isle Royale Fisherman

**\$12.95**

Reproductions of the journals and correspondence of Elling Seglem who fished from Isle Royale's Fisherman's Home between 1920 and 1932. These newspaper-format letters were sent home to his family in Chicago. Historic photos and cartoons. 185 pages. Editors: Jill Burkland & Robert Root



#### Exploring Isle Royale DVD

**\$21.95**

This orientation video produced by the National Park Service shows how to best enjoy the island's many attributes, including its trails, lakes, and campsites. Winner of the 1995 Michigan Outdoor Writers Association Best Outdoor Travel Program. 28 minutes.



#### Isle Royale Wolf T-Shirt

**\$16.95**

Heather gray heavy cotton short-sleeve T-shirt with new wolf design in tones of black, gray and brown. Adult sizes S to XXL.

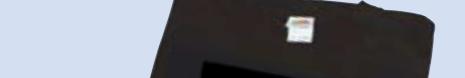


#### Special Value Packages

##### Hiking & Canoeing Package

**\$26.00**

Includes the Trails Illustrated map, the book [Isle Royale National Park: Foot Trails and Water Routes](#), and the park checklists of birds, mammals, and rocks.



##### Fishing Package

**\$25.00**

Includes the Isle Royale Navigational Chart, the book [The Fishes of Isle Royale](#), and copies of Isle Royale fishing regulations and Aquatic Invasive Species brochure.



[www.irnha.org](http://www.irnha.org)

800-678-6925

*IRNHA members receive a 10% Discount on all purchases!*

Visit our sales outlets at Isle Royale National Park Visitor Centers, on the waterfront in Houghton, Michigan, and on the island at Rock Harbor and Windigo.

Shipping Charges/US Mail:	
Up to \$10.00	\$3.00
\$10.01 - \$30.00	\$5.00
\$30.01 - \$50.00	\$7.00
\$50.01 - \$75.00	\$8.00
Over \$75.00	free
Priority Mail:	Add \$4.00
Additional Charges outside U.S.	