U.S. Fish & Wildlife Service

Mackay Island

National Wildlife Refuge



Mackay Island National Wildlife Refuge is one of over 500 refuges in the National Wildlife Refuge System administered by the U.S. Fish and Wildlife Service. The mission of the National Wildlife Refuge System is to administer a national network of lands for the conservation, management, and where appropriate, the restoration of fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans.





This blue goose, designed by J.N. Ding Darling, has become the symbol of the National Wildlife Refuge System.

A Waterfowl Haven

Located along the Atlantic Flyway in northeastern North Carolina and southeastern Virginia, Mackay Island National Wildlife Refuge, established in 1960, provides a sanctuary for thousands of migratory waterfowl, with emphasis on the greater snow goose. Every fall and winter, ducks, geese, and swans fill the marshes and bays of this 8,138 acre refuge. Many other migratory birds and resident wildlife call this area home as well.

Mackay Island History

Historically, Mackay (Mackie or Mackey) Island is generally described as the southwestern portion of a marshy peninsula which juts southward from Virginia into northern Currituck Sound. It is bounded by the Sound on the south and west and Back Creek on the north and east. This is only a portion of the entire refuge but plays a significant role in the history of the area.

The earliest residents of the Island were American Indians as evidenced by artifacts found in the area. Early owners of the Island include John Jones when the island was known as Jones Island, and John Mackie for who



Joseph P. Knapp Mansion (mansion no longer exists).

Snowgeese



SEWS

the current name is attributed. Over the years the name of the Island somehow was changed from "Mackie" to "Mackay." How this happened is unknown. Other owners include Cornelius Jones, the George Roper Lumber Company, and Thomas Dixon, author of "The Birth of a Nation."



Pintail

Historic Aerial View of Live Oak Point and Joseph P. Knapp Mansion and grounds.





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Ducks Raised at Knapp's Lodge circa 1931.

In addition to being the father of Ducks Unlimited, Mr. Knapp made significant contributions to the local community. He made sizable donations to the Currituck schools and to the University of North Carolina. Mr. Knapp invested much of his heart and wealth, not only to the conservation of waterfowl, but to the people of Knotts Island and Currituck County, North Carolina.

After Mr. Knapp's death, the property was sold to James Standing in 1952. The island was logged throughout the 1950's. The U.S. Fish & Wildlife Service acquired the island in 1960 from J. W. Richardson to provide habitat for migratory waterfowl.

Habitats and Wildlife

Dominated by cattails, black needlerush, and giant cordgrass, the area known as the Great Marsh is the predominant habitat feature of the refuge. This slightly brackish marsh habitat comprises nearly seventy-five percent of the total refuge acreage. Other habitats include farmland, marsh impoundments, brush, and typical Eastern pine-hardwood forest consisting primarily of loblolly pine, sweetgum, black gum, and red maple.

Mackay Island National Wildlife Refuge plays an important role in the conservation of the greater snow goose. Like many other species of waterfowl, snow geese nest in Canada during the spring and summer months. As the days get shorter and the weather gets colder, they begin their southbound migration. Arriving in November, flocks of over 12,000 birds may occasionally be observed in the Great Marsh.







From top: Snow geese, Virginia rail, and Bald eagle

Other types of waterfowl that use the refuge include Canada geese, tundra swans, and many species of ducks, including mallards, black ducks, green and blue winged teal, pintails, shovelers, wood ducks, gadwall and wigeon. Peak numbers of over 10,000 ducks usually occur in December and January.

The refuge attracts many species of wading birds such as glossy ibises, cattle and snowy egrets, and great blue, little blue, and green herons. Several types of rails and bitterns also use the refuge but usually remain hidden in the marshes. Northern harriers are commonly seen during the winter soaring over the marshes. In the summer, osprey use dead trees and nesting platforms to raise their young. A bald eagle pair begins nesting in the area early in the year and fledge their young by early summer. On occasion, peregrine falcons and other birds of prey are spotted hunting over the refuge as well.

In addition to bird life, other forms of wildlife thrive on the refuge. This list includes muskrat, nutria, river otter, grav squirrel, raccoon, grav and red fox, and whitetail deer. Numerous turtles and snakes. including the cottonmouth, are found in abundance. Several frog species can also be heard singing in the spring and summer.



Snow geese after prescribed burn.

Refuge staff actively manage the land to provide optimal wildlife habitats. Using pumps and water control structures, they manipulate water levels in refuge impoundments (pools) to produce plants with high food value for waterfowl. Cooperative farmers assist by growing wheat, corn, and soybeans. A portion of their crop is left in the field providing food for many types of wildlife. Refuge staff conduct prescribed burns in the marshes to preserve healthy marsh ecosystems and generate tender browse for snow geese. They also maintain nest structures to support breeding populations of wood ducks and osprey and administer a refuge deer hunt to prevent overpopulation.

Public Use Opportunities

Though wildlife is the first priority, providing opportunities for the public to enjoy the refuge is also important. A variety of wildlife-dependent recreational opportunities are available at certain times and places on the refuge. These opportunities include wildlife observation, wildlife interpretation, photography, environmental education, fishing and hunting.

Wood duck boxes







Birders

A variety of facilities are available. The Great Marsh Trail (0.3 mile loop), provides a scenic journey through a swamp-like habitat and is home to a variety of songbirds, small mammals, reptiles, and other creatures. The Kuralt Trail Overlook provides an elevated platform for an excellent view of the Great Marsh. During the fall and winter, tundra swans, ducks, and large concentrations of snow geese congregate in the ponds south of this site.



Wildlife interpretive displays and literature may be found at the refuge Visitor Contact Station/Office, the Kuralt Trail Overlook, and the Mackay Island Road entrance to help the visitor better understand the refuge and its objectives.



Special Events

"Open Roads Day" events are held throughout the year, to provide opportunities to fish and to observe waterfowl and other wildlife by driving the dike system around the impoundments (pools).

A youth fishing rodeo is held each summer to provide young people with an opportunity to learn a little about fishing and enjoy a day of fun.

Seasonal Closures

Most of the refuge is closed to public access from October 16 through March 14 to reduce disturbance to wintering waterfowl. Mackay Island Road from NC 615 to the Dike Gate, the Great Marsh Loop Trail, The Kuralt Trail Overlook, and the Marsh Causeway are open year round. Unannounced and/or seasonal closures of some areas may occur periodically to reduce disturbance to sensitive wildlife or to complete maintenance projects. Check for information at the refuge office during the week or at refuge kiosks for up-to-date information.

Fishing



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The Secretarial Proclamation Boundary surrounding the southern portion of the refuge prohibits waterfowl hunting within that area. This boundary was established to protect the waterfowl that winter on the refuge.

Enjoying the Refuge

There are three access roads through the refuge; 1) The Marsh Causeway which bisects the Great Marsh, 2) the road to the Joseph P. Knapp Visitor Contact Station located about one mile south of the Virginia/North Carolina border on NC 615 and 3) Mackay Island Road located approximately 1.4 miles south of the Marsh Causeway off NC Route 615. If traveling from the south through North Carolina a free ferry is available which travels between Currituck, NC, and Knotts Island, NC.

To protect refuge resources and ensure a safe and enjoyable visit, please note the following information.

The refuge is open during daylight hours seven days a week with the exception of the area near the refuge office which is open Monday through Friday from 7:30 a.m. to 4:00 p.m.





Vehicles

All motor vehicles are restricted to designated roads and parking areas. ATV's are prohibited on the refuge.

Firearms/ Weapons Carrying, possessing, or discharging firearms, bows and arrows, air guns, fireworks and other weapons are prohibited. Firearms may be possessed, used or transported only by persons engaged in public hunting (see applicable regulations).

Collecting

Gathering, collecting or taking of any plant, flowers, insects, firewood, human artifacts, or wildlife is prohibited.

Pets

All pets must be on a handheld leash.

Hunting

Deer hunting is allowed by permit only.

Fishing

Only recreational fishing is allowed. North Carolina and Virginia fishing regulations apply. Commercial fishing and the use of commercial type gear is prohibited.

Camping is prohibited on the refuge.

Littering

Camping

Littering is prohibited on the refuge.

Refuge hours

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Gadwall

Ducks in wooded impoundment.

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Snow Geese





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