



# In The Park

**CAPE HATTERAS  
NATIONAL SEASHORE**

**WRIGHT BROTHERS  
NATIONAL MEMORIAL**

**FORT RALEIGH  
NATIONAL HISTORIC SITE**

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*Celebrating 100 Years*  
**OF YOUR NATIONAL PARKS!**

# 2016

# National Park Service™ CENTENNIAL



Cape Hatteras National Seashore  
Fort Raleigh National Historic Site  
Wright Brothers National Memorial



@CapeHatterasNPS  
@FortRaleighNPS  
@WrightBrosNPS



@CapeHatterasNPS  
@FortRaleighNPS  
@WrightBrosNPS



Cape Hatteras National Seashore  
Fort Raleigh National Historic Site  
Wright Brothers National Memorial

# National Parks: Your All-American Journey of Discovery

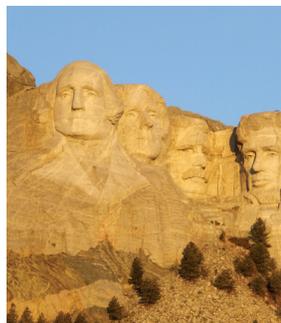
American Pulitzer Prize-winning author Wallace Stegner wrote: *National parks are the best idea we ever had. Absolutely American, absolutely democratic, they reflect us at our best...*

The National Park Service is celebrating its 100th anniversary this year and is looking ahead to new heights, new challenges, and new adventures. The National Park Service was founded on August 25, 1916, but its story started long before that day.

There wasn't much thought given to preservation and conservation in the 1800s—in much of the developed world at that time, vast tracts of land were generally under the private ownership of the wealthy or royalty. With reports from explorers and early settlers of the beauty and grandeur of frontier lands, it became apparent to many that something should be done to preserve these unique natural resources. The emerging identity of our young nation pushed back against the European tradition of ownership of wild lands by a privileged few, and voices rose to demand protection of America's wilderness by the country as a whole, for the benefit of all citizens.

In 1872, President Ulysses S. Grant signed Yellowstone National Park congressional legislation into law, creating the world's first national park, a unique wild area of scenic canyon views, geyser basins, gigantic waterfalls, and abundant wildlife.

Once Yellowstone was established as a national park, visitation began to rise and problems, like poaching and defacing natural resources, soon followed. The US Army was summoned to Yellowstone in 1886 to protect the natural resources. While having the Army present certainly stabilized behaviors, this was not the long-term solution to managing wilderness lands. As the westward settlement continued in the 1890s,



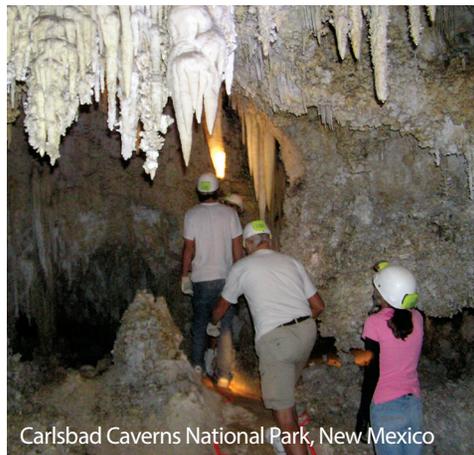
Mount Rushmore National Memorial, South Dakota



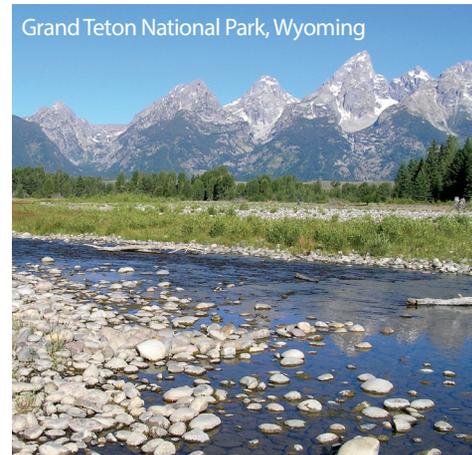
Arches National Park, Utah



Dry Tortugas National Park, Florida



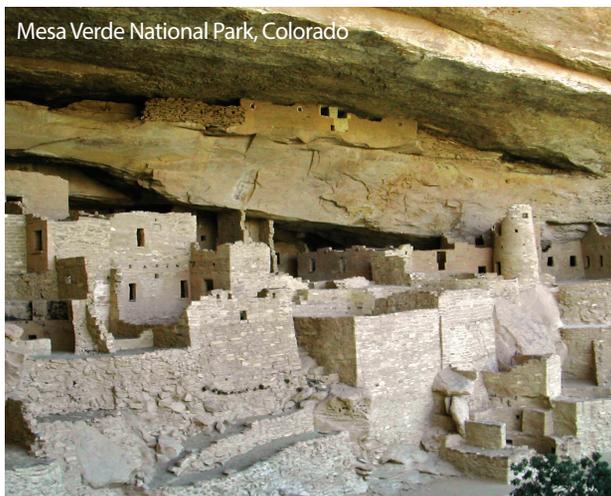
Carlsbad Caverns National Park, New Mexico



Grand Teton National Park, Wyoming



Fredericksburg and Spotsylvania National Military Park, Virginia.



Mesa Verde National Park, Colorado

protection of wild areas came to the forefront of national consciousness through the voice of wilderness preservation advocate John Muir. Protection of wilderness entered the political conversation in Washington, D.C. with the emergence of conservationist Theodore Roosevelt. For protection of America's wild lands, Roosevelt was indeed the right president at the right time.

In 1906, President Roosevelt signed the Antiquities Act. This act gave power to the president to create national monuments. This started a park revolution, setting the stage for more park sites to be created, but still there was no agency charged to manage these lands and sites as a whole. Guided by the vision of influential industrialist and environmentalist Stephen Mather, Congress passed legislation to establish the National Park Service. President Woodrow Wilson signed the National Park Service Organic Act in 1916. Through this act, the National Park Service was created.

One hundred years later, the National Park Service boasts over 400 park units across the continental United States, Alaska, Hawaii, and in several U.S. territories such as Guam and the Virgin Islands. As more countries create and establish national parks, the United States remains an innovator and leader in protecting national treasures. Each of these preserved sites contains their own national significance and is supported by the greater mission of the National Park Service: *.....to conserve the scenery and the natural and historic objects and wildlife therein, and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations.*



Independence Hall National Historical Park, Pennsylvania

National parks are pieces of the grand tapestry that binds our nation. National parks are and always will be, America's best idea. Visitors come from all over the world to experience these magnificent wonders, so please experience and enjoy

YOUR national treasures as we celebrate 100 years of the National Park Service.

## Let's Celebrate!!

Join the national parks on the Outer Banks to celebrate 100 years of the National Park Service!!

### Explore Your Outer Banks Parks

March 5 - December 31, 9 am - 5 pm daily

This Outer Banks History Center special National Park Service Centennial exhibit highlights the histories, resources, and local connections of Wright Brothers National Memorial, Fort Raleigh National Historic Site, and Cape Hatteras National Seashore.

**Location:** Outer Banks History Center, 1 Festival Park Boulevard, Manteo, NC (free)

### You're Invited!! 4th Graders can attend *The Lost Colony* for Free!

May 27 - August 20

To support the National Park Service Centennial Every Kid in a Park campaign, *The Lost Colony* is inviting all 4th graders to experience their summer evening drama for free (with a paying adult). Come and get immersed in the battles, dances, and pageantry of this magical presentation as well as tour Fort Raleigh National Historic Site. See *The Lost Colony* website for performance information: [www.thelostcolony.org](http://www.thelostcolony.org).

**Location:** Waterside Theatre, Fort Raleigh National Historic Site

### National Aviation Day

August 19, 10 am - 4 pm

Not all national park sites are grandiose wilderness areas—some, like Wright Brothers National Memorial, honor great achievements made by our citizens. The First Flight Society, along with NASA and the US Coast Guard, will be hosting National Aviation Day to celebrate our nation's aviation spirit! There will be hands-on activities for kids and an opportunity to get up-close with aircraft.

**Location:** Wright Brothers National Memorial (free)

### Starry, Starry Night

August 25, 8:30 pm - 10 pm

The National Park Service protects special values, such as the night skies of Cape Hatteras National Seashore—some of the darkest skies on the east coast! On National Park Service Founders Day come enjoy a night of stargazing with our partner, Ocracoke Alive and learn how to protect dark skies.

**Location:** Ocracoke Day Use Area (free)

### 113th Anniversary of Flight

December 17, 9 am - 11 am

Close out the centennial year and join the National Park Service and the First Flight Society to acknowledge the 113th anniversary of flight.

**Location:** Wright Brothers National Memorial (free)

# 2016

## National Park Service™ CENTENNIAL



## Every Kid in a Park

Did you know that you own millions of acres of deserts, historic structures, cultural artifacts, ancient forests, snow-capped mountains, and clear blue lakes? Our federal public lands and waters belong to all Americans and are waiting for you to explore them!

To help engage and create our next generation of park visitors, supporters, and advocates, federal land management agencies launched the Every Kid in a Park initiative. The immediate goal is to provide an opportunity for each and every fourth grade student across the country to experience their federal public lands and waters in person.

All fourth grade students now have access to their own Every Kid in a Park pass at [www.everykidinapark.gov](http://www.everykidinapark.gov), the official website where parents, educators, and kids can learn more. The Every Kid in a Park pass is good for the school year and provides free access to national parks, national forests, national wildlife refuges, and more!

## Centennial Forward-Leaning

The National Park Service Outer Banks Group staff has been working hard on a number of Centennial projects to help us embark on the next 100 years.

### Creating a New Network of Water Trails

The Outer Banks Group is in the process of proposing a series of water trails. Under consideration are trails on the waters off the Pamlico Sound along Cape Hatteras National Seashore and one trail on the north end of Roanoke Island by Fort Raleigh National Historic Site. A concept plan for this would identify new launch sites, improve existing launch sites and access areas, install standard signage for launch sites, create a maintenance and management plan, and create a safety/water rescue plan. Ultimately, the trails would not only connect to each other, but to local communities and other federal, state, and local points of interest.

### Celebrating and Protecting the Night Sky

The Outer Banks Group is pursuing Dark Sky Park designation for Cape Hatteras National Seashore from the International Dark-Sky Association (IDA). An IDA Dark Sky Park is public land possessing an exceptional or distinguished quality of starry nights and a nocturnal environment that is specifically protected for its public enjoyment, scientific, natural, and educational values. The Outer Banks Group has been diligent to meet the requirements to achieve this designation, including; completing a strategic assessment of artificial lighting used by the park, retrofitting fixtures, and eliminating unnecessary artificial lights. Meeting these requirements will protect the night sky and ensure that the night skies above Cape Hatteras National Seashore remain some of the darkest on the east coast.

### Find Your Park Campaign

# FIND YOUR PARK

One of the goals of the 2016 National Park Service Centennial is to reach out to tomorrow's park stewards and help

them define "park" in their own way. The National Park Foundation Find Your Park campaign is a media outreach effort to help introduce the National Park Service to all Americans. You can share your own national park stories at [www.findyourpark.com](http://www.findyourpark.com). Join and follow the Outer Banks Group's participation in this program by following each park's social media sites (see the bottom of the front page).



# Welcome To The Park

**W**e want your visit to your parks to be safe and enjoyable. By following these guidelines, we can all protect and maintain these spectacular areas.



## Camping

Camping is permitted only in designated campgrounds. Oregon Inlet, Cape Point, Frisco, and Ocracoke Campground reservations can be made at [www.recreation.gov](http://www.recreation.gov) or by calling (877) 444-6777. All campgrounds open April 15 and close November 28.

## Alcoholic Beverages

NC law does not permit spirituous liquors—distilled liquors, whiskey, vodka, etc—or fortified wines to be consumed in public. The legal NC drinking age is 21. Open containers of alcohol are not permitted in any motor vehicle.

## Fishing

A NC Coastal Recreational Fishing License is required and is available at local tackle shops.



## Personal Watercraft

The trailering, launching, or landing of personal watercraft (Jet Ski, Waverunner, etc) is not allowed in the seashore.

## Beach Campfires

A Beach Fire Permit is required. This permit is free & available at campgrounds and visitor centers. Beach fires are not allowed from 10 pm to 6 am. From May 1–November 15, beach fires are only allowed on ocean beaches at Coquina Beach, Ocracoke Day Use Area, and the villages of Rodanthe, Waves, Salvo, Avon, Buxton, Frisco, and Hatteras.

## Beach Access for Persons With Disabilities

Beach-capable wheelchairs are available on a first-come, first-served basis, check with campground staff and lifeguards (in season). Special Park Use Permits may be issued to visitors with disabilities to provide vehicular access to vehicle-free areas—the vehicle used will require an ORV permit as well.



## Pets

Pets must be on a 6' leash at all times and are prohibited within any resource closure. Pets are not allowed in buildings.

## Wildlife

Do not feed or harass wildlife for their safety and yours.

## Leave No Trace

Every evening, remove your umbrellas, canopies, chairs, etc., and fill any pits dug on the beach. This will help to prevent injuries to nighttime beachgoers, including sea turtles.



## Fireworks

Fireworks are not allowed in any National Park Service area.

## Metal Detectors

Use of metal detectors is prohibited.

## Kites

Kite-flying or Frisbee- and ball-throwing is allowed on beaches, except within or over any nesting shorebird closure.

*Remember:*  
**Call 911 to report emergencies.**



## Beach Closures

Some parts of the beach may be closed for resource protection or safety reasons. Resource closures to protect nesting shorebirds and sea turtles may shrink or expand given the behavior and protection requirements of these wildlife species.

## NC Ferries

To check on the latest ferry schedule, or to make reservations, go to [www.ncdot.gov/ferry/](http://www.ncdot.gov/ferry/).



## Off-Road Vehicle Use

An ORV permit is required. Annual permits (calendar year) are \$120; 7-day permits are \$50. Vehicles must be licensed, insured, and registered. Permits can be obtained online at [www.recreation.gov](http://www.recreation.gov), if you have a printer to print the permit. If you have permit questions while on the seashore, permit offices are located at the Bodie Island, Hatteras Island, and Ocracoke Island Visitor Centers. All offices are open 9 am to 5 pm daily.

## Unmanned Aircraft/Drones

The launching, landing, or operating of unmanned aircraft/drones on lands and waters administered by the National Park Service is prohibited.

# Swimming Safety

The ocean is a wonderful place to swim—if you are careful. Strong wave energy, rough surf, and rip currents can turn a quick dip into a problem.

## Clues for Spotting a Rip Current:

- a channel of churning, choppy water
- an area having a notable difference in water color
- a line of foam, seaweed, or debris moving steadily seaward
- a break in the incoming wave pattern



Photo and graphic credit: NOAA and U.S. Lifesaving Association

## BE SAFE...BE SEEN! Swim near a Lifeguard!

Lifeguarded beaches will be staffed May 28 through Labor Day, 9 am to 5 pm daily, at the following locations (See Map pages 4 & 5):

- Bodie Island at Coquina Beach
- Hatteras Island at Cape Hatteras Lighthouse Beach
- Ocracoke Island at Ocracoke Day Use Beach

Lifeguards can answer questions on swimming safety and weather conditions.



## IF CAUGHT IN A RIP CURRENT...



- Don't fight the current
- Swim parallel to the shore to get out of the current
- If you can't escape, you should float or tread water
- If you need help, call or wave for assistance

## More Safety Tips

- Due to dangerous currents, never swim in inlets.
- Do not swim alone, at night, or near fishing piers. Children should swim only with adult supervision.
- Know the various types of ocean currents and how to get out of them.
- Watch the weather. Storms and squalls come up quickly.
- Don't swim during thunderstorms. Lightning is extremely dangerous and does strike the beach. For more information visit [www.lightningsafety.noaa.gov](http://www.lightningsafety.noaa.gov).
- Non-swimmers should use US Coast Guard-approved flotation vests, even while wading.
- Be careful at the shore's edge. The force of crashing waves can pick you up and throw you

onto the sandy bottom, which may result in fractures, dislocations, or possibly fatal neck injuries.

- Watch for jellyfish. If stung, seek first aid if needed. Pour on vinegar to stop the stinging, but don't rub.
- Do not swim near surfers. The surfboard's fin can cut you.
- Always use sunscreen.

Keep updated on  
**RIP CURRENTS & WEATHER:**  
[twitter.com/NWSMoreheadCity](https://twitter.com/NWSMoreheadCity)  
[www.weather.gov/mhx](http://www.weather.gov/mhx)

## Bugs!!!



Mosquitoes and other insects serve a purpose in the scheme of things. Nonetheless, they are nuisances and can make your trip an ordeal.

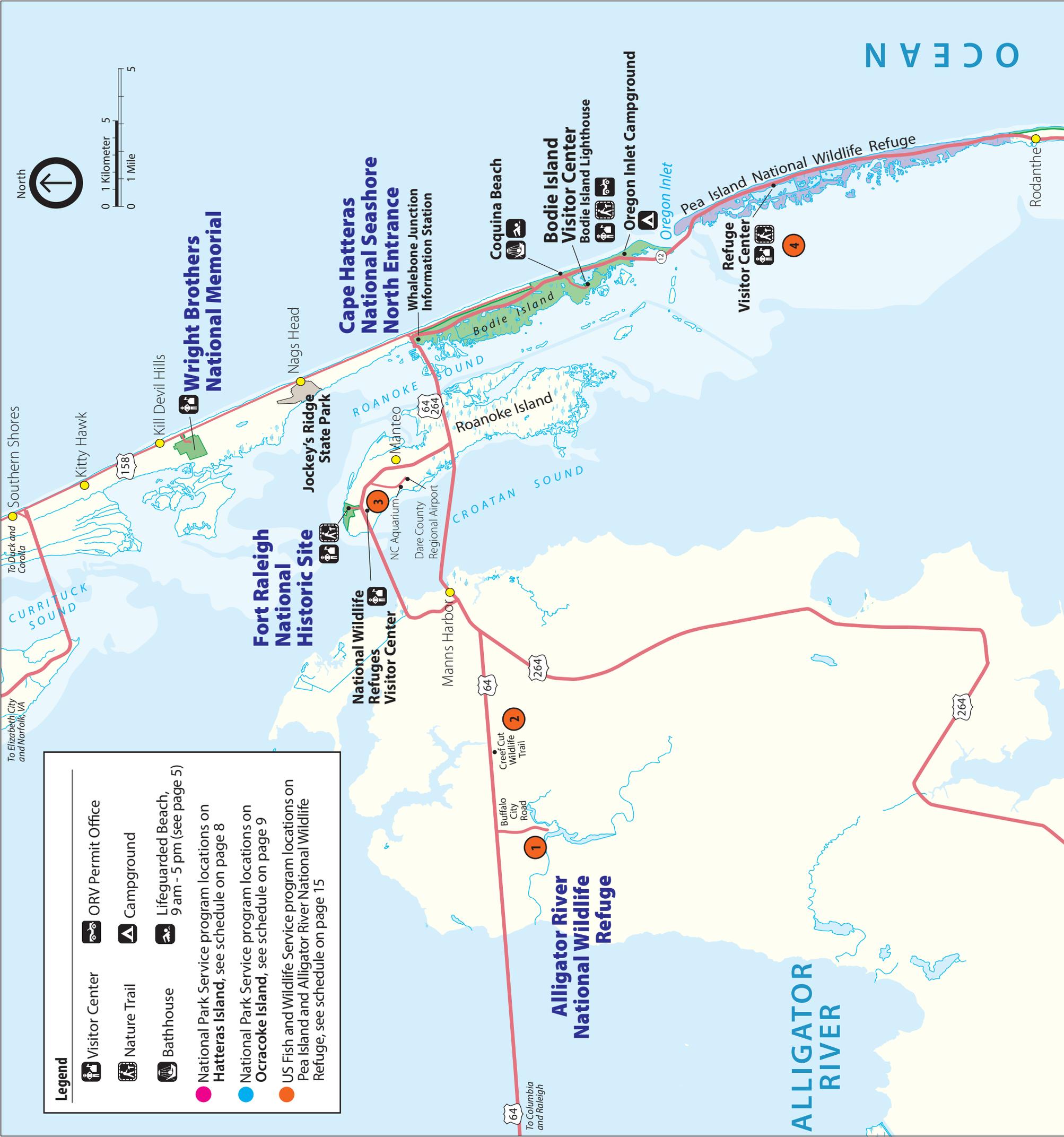
Be prepared with mosquito repellent and netting for camping and other island-related activities. After hiking, be sure to check yourself for ticks. 

## UNDER CONSTRUCTION

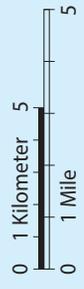
Several projects taking place along NC Highway 12 starting this year may contribute to increased travel time along this route through the seashore. Be prepared for delays, slowed traffic, and one-lane roads with pilot vehicles. Plan ahead for additional travel time that may be needed due to possible delays. Check [www.ncdot.gov/nc12/](http://www.ncdot.gov/nc12/) for updated information.

## HOT The Dangers of Heat & Humidity

A combination of high temperature and high humidity creates an even higher and possibly dangerous apparent temperature. With an air temperature of 90°F and a humidity of 80%, the apparent temperature is 113°F. Heat cramps, heat exhaustion, and heatstroke are possible during elevated apparent temperatures. Enjoy the beach, but limit your physical activity and exposure during days of high heat and humidity. Drink water often.



OCEAN



**Legend**

- Visitor Center
- Nature Trail
- Bathhouse
- ORV Permit Office
- Campground
- Lifeguarded Beach, 9 am - 5 pm (see page 5)
- National Park Service program locations on Hatteras Island, see schedule on page 8
- National Park Service program locations on Ocracoke Island, see schedule on page 9
- US Fish and Wildlife Service program locations on Pea Island and Alligator River National Wildlife Refuge, see schedule on page 15

To Elizabeth City and Norfolk, VA

To Dick and Corolla

Southern Shores

Kitty Hawk

Kill Devil Hills

**Wright Brothers National Memorial**

Nags Head

Jockey's Ridge State Park

**Fort Raleigh National Historic Site**

Manteo

National Wildlife Refuges Visitor Center

NC Aquarium Dare County Regional Airport

Manns Harbor

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ATLANTIC

NATIONAL SEASHORE

Hatteras Island

**Cape Hatteras Lighthouse Area**

This inset map details the Cape Hatteras Lighthouse Area. It shows the lighthouse, museum, visitor center, and various trails. Key features include:
 

- Old Lighthouse Site
- Cape Hatteras Lighthouse (Lifeguards)
- Beach Parking
- Museum of the Sea
- Fish Cleaning Tables
- Ramp A3 Parking Lot
- Cape Point Campground
- British Cemetery
- Hatteras Island
- Buxton Woods Trail Head & Picnic Area
- Hatteras Island Visitor Center, Pavilion & ORV Permit Office
- Buxton
- Pond
- Salt Pond
- Open Ponds Trail

CAPE HATTERAS

Hatteras Island Visitor Center & Museum

Cape Hatteras Lighthouse

Cape Point Campground

Frisco Campground

Hatteras US Weather Bureau Station

Sandy Bay Soundside Parking

Hatteras

Frisco Beach Bath House

DIAMOND SHOALS

Hatteras Inlet

Ocracoke Island

Cape Hatteras National Seashore South Entrance

Ocracoke Island Visitor Center

Ocracoke Campground

Ocracoke Day Use Beach (Lifeguards)

Pony Pen

Ocracoke Lighthouse

Ocracoke Inlet

Cape Hatteras National Seashore

To Cedar Island via Toll Ferry

To Swan Quarter via Toll Ferry

This map shows the Pamlico Sound area, including Buxton and Hatteras Island. It highlights the route from Buxton to Frisco and the location of the Cape Hatteras Lighthouse Area. The Atlantic Ocean is visible to the east.

PAMLICO SOUND

**Ocracoke Village**

This inset map details Ocracoke Village. It shows Silver Lake Harbor, the Ocracoke Lighthouse, and various roads and landmarks. Key features include:
 

- Public Parking
- Ocracoke Preservation Society Museum
- British Cemetery
- Working Watermen's Exhibit
- Back Rd
- School Rd
- Howard St
- Lighthouse Rd
- Harbor Rd
- Ocracoke Lighthouse
- Springer's Point Nature Trail
- Silver Lake Harbor
- Swan Quarter/Cedar Island
- Ferry to Cedar Island
- Ferry to Hatteras

To Cedar Island via Toll Ferry

To Swan Quarter via Toll Ferry



# Hatteras Island Program Schedule — May 27 through September 5, 2016

Circled Number is Location Code (see map page 7). \* = Pre-Registration Required. Pre-register at the Museum of the Sea beginning the Saturday prior to the program. (#) = Program is Accessible  
The Hatteras Island Visitor Center and Museum of the Sea are open 9 am - 5 pm Daily

PROGRAMS	SUN	MON	TUES	WED	THURS	FRI	SAT
<b>Morning Bird Walk</b> – Meet winged residents and those traveling the Atlantic Flyway. Binoculars are available. Bring bug spray. (90 minutes) Meet at fish cleaning tables near ORV Ramp 44 <b>8</b>			8:00				
<b>Fish with a Ranger</b> – Ocean surf fishing—we bring the poles & you bring the bait! Limited to 15 participants. (90 minutes) *		8:00			8:00		
<b>Soundside Seining</b> – Discover the under-water life of the Pamlico Sound. Wear wading shoes that stay on your feet & clothes that can get wet. (90 minutes) Meet at Sandy Bay Soundside <b>10</b>						8:30	
<b>Cast Netting</b> – Practice this early method of fishing still used today. Limited to 25 participants. (90 minutes) *				9:30			
<b>Barrier Island Dynamics</b> – How do plants, wildlife, and people adapt to barrier island geologic change? (20 minutes) Meet at Hatteras Island Visitor Center Pavilion <b>5</b> (#)	10:00	10:00	10:00	10:00	10:00	10:00	10:00
<b>Hurricane Alley</b> – Hurricanes and nor'easters are a fact of life here—learn more. (20 minutes) Meet at Hatteras Island Visitor Center Pavilion <b>5</b> (#)	11:30	10:45	10:45	10:45	10:45	10:45	11:30
<b>Sea Turtles for Kids</b> – Children will learn the habits and life of these majestic creatures through activity and games. (45 minutes) Meet at Keepers of the Light Amphitheater <b>6</b>			11:30	11:30	11:30	11:30	
<b>War on Hatteras</b> – Learn about the 3 wars that impacted this island. (20 minutes) Meet at Hatteras Island Visitor Center Pavilion <b>5</b> (#)			2:30	2:30	2:30		
<b>Light Station Talk</b> – Discuss the details and history of this beautiful sentinel. (20 minutes) Meet at Museum of the Sea Porch <b>7</b> (#)	3:15	3:15	3:15	3:15	3:15	3:15	3:15
<b>US Coast Guard Station Hatteras Inlet Tour</b> – Life-saving has a long and heroic history on the Outer Banks. Limited to 20 participants. (1 hour) *						3:30	
<b>Moving the Lighthouse</b> – How did they move that thing? (20 minutes) Meet at Hatteras Island Visitor Center Pavilion <b>5</b> (#)	4:00	4:00	4:00	4:00	4:00	4:00	4:00
<b>Night Sky Over Hatteras</b> – Bring blankets, chairs, and telescopes for this evening of stargazing on the beach. Bring bug spray. (1 hour) Meet at Ramp 43 parking lot <b>9</b>			9:00 pm				

The schedule may change without notice. Programs are subject to weather. Sunscreen and bug repellent are recommended for all outdoor programs.

## Ocracoke Island Program Schedule — May 27 through September 5, 2016

Circled Number is Location Code (see map page 7). \* = Pre-Registration Required. Pre-register at the Ocracoke Visitor Center beginning the Saturday prior to the program. (#) = Program is Accessible  
The Ocracoke Visitor Center is open 9 am - 5 pm Daily

PROGRAMS	SUN	MON	TUES	WED	THURS	FRI	SAT
<b>Outer Banks Bird Walk</b> – Morning bird walk. Binoculars are available. Bring bug spray. (90 minutes) Meet at Hatteras Ferry Parking Lot on north end of Island <b>11</b> (#)						8:30	
<b>Cast Netting</b> – Practice this early method of fishing still used today. Limited to 20 participants. (90 minutes) *			8:30				
<b>Morning Bird Walk</b> – Meet winged residents and those traveling the Atlantic Flyway. Bring bug spray. (90 minutes) Meet at Hammock Hills Nature Trail <b>13</b>			8:30				
<b>Crabbing with a Ranger</b> – You bring the bait—raw chicken or fish parts work best. Limited to 20 participants. (90 minutes) *		8:30		8:30			
<b>Banker Ponies</b> – Meet the ponies unique to Ocracoke! Bring bug spray. (30 minutes) Meet at Pony Pen <b>12</b>					9:00	11:00	
<b>All About Turtles</b> – Activities especially for seashore kids. (45 minutes) Meet at Ocracoke Visitor Center <b>15</b> (#)		10:00		2:30			
<b>Pirates!</b> – Yes, they were here. Learn about Blackbeard & others. (30 minutes) Meet at Ocracoke Visitor Center <b>15</b> (#)		11:00			11:00		
<b>Ocracoke History</b> – Learn about the island’s rich past. (30 minutes) Meet at Ocracoke Visitor Center <b>15</b> (#)			2:30		3:30		
<b>Barrier Island Nature</b> – Join us for a talk about the wild side of the park. (30 minutes) Meet at Ocracoke Visitor Center <b>15</b> (#)		2:30			2:30	2:30	
<b>Night Sky</b> – Bring blankets and chairs for stargazing on the beach! Bring bug spray. (1 hour) Meet at Campground Beach <b>14</b> (#)				8:30 pm			

The schedule may change without notice. Programs are subject to weather. Sunscreen and bug repellent are recommended for all outdoor programs.

### Help Your Park!

The generosity of our visitors through their donated money and time helps to sustain the Outer Banks Group national park sites.

You can donate to our parks at any campground or any visitor facility where fees are paid or permits are sold. There are also donation boxes at the Wright Brothers National Memorial Visitor Center and the Ocracoke Pony Pens. You can always mail a check to National Park Service-Outer Banks Group, 1401 National Park Road, Manteo, NC 27954.

Purchasing books and souvenirs at any of our visitor centers is another way you can support our parks. See the back page of this newspaper for some sales items or visit [www.eparks.com/store/](http://www.eparks.com/store/).

Volunteering at any of our parks is a very rewarding way to contribute meaningful and helpful service. Give to the parks in a way that money can never measure by looking at our volunteer opportunities listed on [www.volunteer.gov](http://www.volunteer.gov).



Your generosity helps protect park resources.

**Visitor Center**  
Open 9 am to 5 pm Daily



**Making Improvements**

Big changes are on the way at the Wright Brothers Visitor Center! This visitor center is a National Historic Landmark, representative of Modernist architecture and the National Park Service Mission 66 development initiative. The facility will close this fall for a major rehabilitation. This work will help preserve and repair the building's architectural features and materials, meet current building and accessibility codes, and address current and future visitor needs. While construction work is underway, the park will be developing new, engaging, and learning-oriented exhibits on the Wrights and their world-changing achievements. Look for all of this work to be completed in 2018. In the meantime, we will have a temporary visitor facility on site where you can get orientation information and visit the bookstore.

**Wright Brothers National Memorial Program Schedule**  
May 27 through September 5, 2016 (#) = Program is Accessible

PROGRAMS	SUN	MON	TUES	WED	THURS	FRI	SAT
<b>Flight Room Talk</b> – Learn about the Wrights and how they developed the first successful airplane. See a demonstration of their control system on a reproduction of the 1903 flyer. (30 minutes) Meet at the Visitor Center Auditorium (#)	10:00 12:00 2:00 4:00						
<b>For Kids: Wright Kite</b> – See a demonstration of kite building and join in the fun of flying a homemade kite (or bring your own). Test the winds of Kitty Hawk just like the Wilbur and Orville. (60 minutes) Meet at the Camp Buildings			10:30		10:30		
<b>First Flight Tour</b> – Step back in history during this short walk to the actual site of the Wrights' first powered flights. Learn about the first flight and the events of the historic December day. (30 minutes) Meet at the Visitor Center Rear Patio (#)	1:00 3:00						

The schedule may change without notice. Programs are subject to weather. Sunscreen and bug repellent are recommended for all outdoor programs.

*For some years I have been afflicted with the belief that flight is possible to man. My disease has increased in severity and I feel that it will soon cost me an increased amount of money if not my life.*  
 ~~~~~ Wilbur Wright ~~~~~

*We were lucky enough to grow up in an environment where there was always much encouragement to children to pursue intellectual interests; to investigate whatever aroused curiosity.*  
 ~~~~~ Orville Wright ~~~~~

**Visitor Center**

**May 26 to August 20**

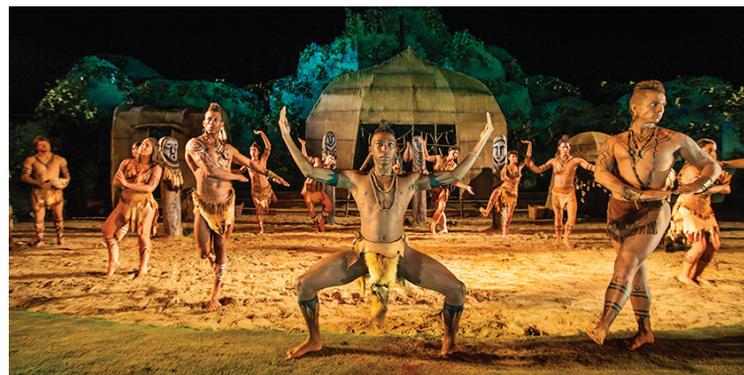
Mon. - Sat., 10:30 am to 6:30 pm  
Sun., 9 am to 5 pm

**After August 20**

Daily, 9 am to 5 pm



**The Lost Colony 2016 Season at the Waterside Theatre**



Bursting with action and excitement, *The Lost Colony* is the epic story of America's first English colony. Performed at Fort Raleigh National Historic Site, Paul Green's symphonic outdoor drama combines a strong sense of history with music, dance, romance, comedy, and drama to create a magical evening for the entire family. Experience the sorrow and heartbreak of tragedy and loss. Witness the pageantry of Queen Elizabeth and her court. *The Lost Colony* enriches, educates, and entertains. Learn more about *The Lost Colony* at [www.thelostcolony.org](http://www.thelostcolony.org). *The Lost Colony* is produced by the Roanoke Island Historical Association. The 2016 season is dedicated to the National Park Service — 4<sup>th</sup> graders attend for free with paying adult (see pg. 3).

**Fort Raleigh National Historic Site Program Schedule**

May 27 through August 20, 2016 — All Programs are Accessible

| PROGRAMS   | SUN   | MON                                 | TUES          | WED           | THURS         | FRI           | SAT           |
|--|-------|-------------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>The Lost Colony?</b> – Delve into the history and mystery surrounding England's first attempt to establish a colony in the New World. (25 minutes) Meet at the Earthen Fort                                       | 11:00 | 11:00                               | 11:00<br>5:00 | 11:00<br>5:00 | 11:00<br>5:00 | 11:00         | 11:00         |
| <b>For Kids: Create Your Own Coat of Arms</b> – John White and the Roanoke Colony had their own unique coat of arms. Join us to learn about coats of arms and create your own. (25 minutes) Meet at the Earthen Fort | 11:30 | 11:30<br>5:30                       | 11:30<br>5:30 | 11:30<br>5:30 | 11:30<br>5:30 | 11:30<br>5:30 | 11:30<br>5:30 |
| <b>Insight and Images</b> – Discover what the images of history can tell us about the people and stories of Roanoke Island. (25 minutes) Meet at the Visitor Center Theater  | 3:00  | 3:00                                | 3:00          | 3:00          | 3:00          | 3:00          | 3:00          |
| <b>One Island, Many Stories!</b> – Explore the complex human history of this place from the Carolina Algonquian...to the freedmen...to visitors today. (25 minutes) Meet at the Earthen Fort                         | 4:00  | 4:00                                | 2:00<br>4:00  | 2:00<br>4:00  | 2:00<br>4:00  | 4:00          | 4:00          |
| <b>Park Movie</b> – (17 minutes) Meet at the Visitor Center Theater  |       | Plays every half hour, except 3 pm. |               |               |               |               |               |

The schedule may change without notice. Programs are subject to weather. Sunscreen and bug repellent are recommended for all outdoor programs.

# LOVELY LIGHTHOUSES!



Besides beautiful beaches, one of the most popular activities on the seashore is a visit to a lighthouse.

Bodie Island Lighthouse was built three times. The first tower was built in 1848 on a poor foundation. The second, built in 1859, was blown up by Confederate troops during the Civil War. The third tower remains today, built in 1872.

The Cape Hatteras Lighthouse is the tallest brick lighthouse in North America. Standing 198.5 feet tall, it was built in 1870 to navigate ships around the treacherous Diamond Shoals off Cape Hatteras. This lighthouse was moved ½ mile inland in 1999 when threatened by the encroaching sea.

Standing 75-feet tall, the 1823 Ocracoke Lighthouse is the oldest active lighthouse in North Carolina. Not open for climbing.

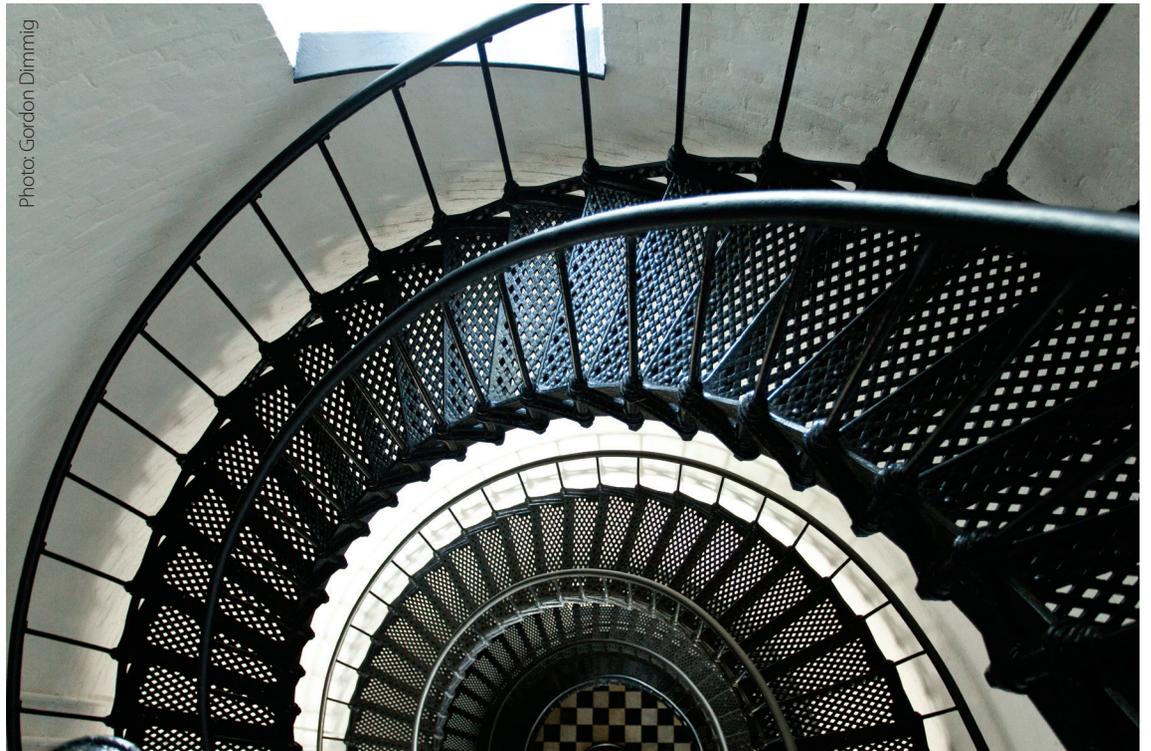


Photo: Gordon Dimmig

## Climbing the Cape Hatteras and Bodie Island Lighthouses

### What You Need to Know

- At the Cape Hatteras and Bodie Island Lighthouses, you climb up and down at your own pace; there is no guided tour. The Ocracoke Lighthouse is not open for climbing.
- Children **MUST** be at least 42" tall to climb.
- At the Bodie Island Lighthouse, no climber may weigh more than 260 lbs, and only one person at a time is allowed on each flight of stairs.
- Bring bottled water.
- Climbing to the top of Cape Hatteras is equal to climbing a 12-story building. Climbing the Bodie Island Lighthouse is equal to climbing an 8-story building. There is no air conditioning in either lighthouse. It may be humid, hot, and dim inside. Visitors with heart and other medical

conditions are strongly discouraged from climbing!

- Children 11 years of age and under must be accompanied by an adult (16 years of age or older).

### TICKETS

\$8 – adults; \$4 – children under 12 (must be at least 42" tall); seniors 62 and older; disabled

### SEASON/HOURS

Open April 15 – October 10, 2016. Tickets are sold from 9:00 am - 4:25 pm daily.

## Lighthouse Ranger Tips

### 1 Check Before You Come

The lighthouses can close due to extreme heat, thunder, lightning, high winds, heavy rain, and medical emergencies. If inclement weather is forecasted, you may want to reschedule your visit.

### 2 Have a Backup Plan

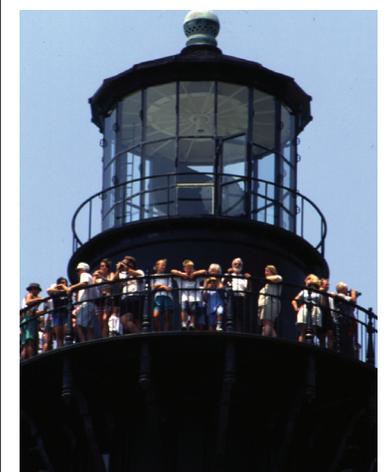
If the lighthouse is closed when you arrive, it's helpful to have a backup plan.

### 3 The Climb is Difficult

Please bring water to stay hydrated and eat beforehand—those who do not eat breakfast often become faint. Know your physical limit; if you don't feel able, please refrain from climbing.

### 4 Plan Ahead

The lighthouses tend to be busiest from 10 am to 3 pm. There can be up to an hour wait for your climb time. Also, heavy traffic and long lines at the Ocracoke ferry can slow travel, so allow for extra time.





Occasionally sea turtles, such as this loggerhead, will nest after sunrise. If you see a sea turtle, stay back at least 100 feet to avoid disturbing her and call (252) 216-6892.

## SEA TURTLES: Visitors from the Ocean

Sea turtles are some of the most fascinating animals found at the seashore. Of the seven species of sea turtles world-wide, five have been confirmed nesting at Cape Hatteras National Seashore: the loggerhead, green, leatherback, Kemp's ridley, and hawksbill. All species of sea turtles are listed as threatened or endangered and are in need of protection.

The 2015 season was the first year a hawksbill was documented nesting at the park and she laid two nests! The park had a record number of 289 nests during the entire season.



If you see turtle tracks, call (252) 216-6892

These large, lumbering reptiles crawl out of the ocean onto the beach, dig a deep hole using their back flippers, and lay their eggs. They carefully cover the eggs by filling the hole with sand and then return to the sea.

During the incubation period, the leathery ping pong ball-sized eggs are susceptible to predators, beach erosion, and ocean overwash.

Once the turtles hatch from their shells, they still have to make the climb up to the surface. Once they reach the surface they wait until evening, when it is darker and cooler, and then emerge out of the sand. They rapidly crawl towards the surf. Their final destination is the Gulf Stream and its protective floats of sea grass.

Biologists patrol the beach every morning to find and protect all sea turtle nests, laid the previous night, with a roped-off closure. On day 50 of incubation, the nest closure is extended toward the water to protect the hatchlings in their journey to the ocean edge. Please adhere to all signage marking a nest. After the hatchlings have emerged and the nest has been inventoried by biologists, the closure is removed.

### What Can I Do to Help?

**1. Beach Lighting:** Avoid confusing nesting turtles and hatchlings by **turning off all outdoor lights** in beachfront houses from dusk to dawn and all interior lights when you go to bed.

**2. Natural beaches are healthy turtle beaches:** Take all of your belongings inside at the end of each day. Adult turtles and hatchlings can become entangled by chairs, tents, nets, and umbrellas left on the beach. Deep holes in the sand or tall sand castles can be hazards to nesting sea turtles and hatchlings crawling on the beach. At the end of each day, fill in your holes and level your sand castles. Trash left on the beach will attract predators. Take your litter home with you too!

**3. Nesting Turtles:** If you see tracks on the beach left by a turtle the previous night, call **(252) 216-6892** to ensure the nest gets properly documented and protected. Please avoid disturbing the area in any way, including marking the nest, as you may inadvertently remove the cues left by the turtle that are used by biologists to locate the nests.

### Attend a Sea Turtle Nest Excavation!



National Park Service biologists visit sea turtle nest sites after the initial hatching to ensure that as many of these protected sea turtle hatchlings make it to the water as possible. The biologists excavate (dig up) the nest looking for remaining stranded hatchlings and un-hatched eggs. The stranded hatchlings are gathered up and released into the Atlantic Ocean later at night.

The National Park Service invites the public to attend sea turtle nest excavations during the months of July, August, and September. Each excavation program will include narration by a ranger, giving everyone a chance to ask questions and learn more about these protected animals.

Call (252) 475-9629 to find out when and where a sea turtle nest excavation will take place. Notice of these excavations usually occurs only a day in advance, so be sure to check this number often. Follow the park on Twitter to get the latest updates @CapeHatterasNPS.

#### THINGS TO KNOW

- The program is free and lasts 30-60 minutes.
- There is no signup required; everyone is welcome.
- Summer temperatures are HOT, so be sure everyone has plenty of water, sunscreen, shoes, and a hat. Mosquito repellent is advised.
- When you arrive at the excavation site, a ranger will be available to narrate and answer questions while biologists will be working on the nest. PLEASE do not disturb the biologists excavating the nest.

# Protecting Beach Nesting Shorebirds



The chisel-like beaks of this oystercatcher and his chicks are adept in opening bivalves—oysters, clams, and mussels—for food.

Visitors flock to the Outer Banks every summer for the beaches, excellent cuisine, and family time. Nesting shorebirds come to the seashore every year for the same reasons. Park beaches provide the nesting habitat, food, and open space needed by these species for their very mobile chicks.

## Colonial Nesters

Some feathered families nest in colonies on the open beach. Safety comes in numbers, providing protection from potential predators. Colonial nesting shorebirds at Cape Hatteras include the least tern, common tern, gull-billed tern, and black skimmer. Terns can be identified by pale gray or white feathering, forked tails, and black caps. Black skimmers stand out with black plumage and large orange and black beaks.

Terns and skimmers nest on the upper beach, out of reach of most tidal waters. Their nests are merely scrapes in the sand where two or three pale, specked eggs are laid, blending perfectly with the surroundings. Chicks are born fully feathered and begin walking after two days. Parents bring meals of small fish to their chicks. After three to four weeks, the young begin to fly.

Terns are extremely agile flyers with keen eyesight, catching fish near the water's surface. Black skimmers fly low over the water, day or night, and catch fish by skimming their long lower bill just below the water's surface.

## Solitary Nesters

Other shorebirds, such as the American oystercatcher and the threatened piping plover, are



The twelve pairs of plovers nesting in the park last year resulted in 25 eggs laid. Only two chicks made it to fledging.

solitary nesters. These birds will actively chase away those of their own species that enter their breeding territories. The American oystercatcher is a large, prominent shorebird with dark brown and white plumage, orange chisel-like bill, and distinctive call. The small, pale, buff-colored piping plover is more inconspicuous, blending perfectly with the sandy habitat. Its soft, plaintive 'peep-lo' call is often heard before the bird is seen.

Both species need large, undisturbed beaches to be successful. They lay a clutch of three to four camouflaged eggs in the sand. The chicks are born fully feathered and can run short distances within hours of hatching. Parents may move the young over long distances for food and protection. Oystercatcher chicks usually begin to fly at five weeks, but remain dependent on adults for their shellfish diet during their first two months. Plover chicks feed on insects and small marine invertebrates, and they can fly at four to five weeks.

## Population Threats

In the 1800s, populations of beach-nesting birds were decimated due to unregulated market hunting. These birds were prized for their eggs, meat, and ornamental feathers.

Today these birds are protected by state and federal law. They face many threats on their nesting, migrating, and wintering grounds such as habitat loss, disturbance, predation, and storms. At Cape Hatteras National Seashore, beach closures are established by park biologists to provide undisturbed habitat needed by breeding birds to successfully nest and raise their young. Banding American oystercatcher and piping plover chicks provides park staff with valuable information on breeding birds and migration routes.

## WHAT YOU CAN DO TO HELP

• **Resource Closures:** Please respect any resource closures—areas that may be temporarily closed to ORV and pedestrian use to protect nesting shorebirds and sea turtles, and their young. Resource closure boundaries for shorebirds may shrink or expand given the specific behavior and protection requirements of the breeding birds, nests, or young.

- **Stay Back:** Observe birds from a safe distance. If they take flight or act agitated, you are too close.
- **Keep Pets Back Too:** Pets can kill chicks, crush eggs, or scare adults off nests. Keep pets on a leash and away from nesting sites. Keep cats indoors.
- **Kibosh Kites:** Do not fly a kite near a nesting area. Kites scare birds off nests, leaving eggs and chicks exposed to deadly heat and predators.
- **Natural Beaches are Healthy Bird Beaches:** Trash left on the beach will attract predators, such as gulls, raccoon, fox, and feral cats, that can devastate eggs, chicks, and incubating adults. Take your litter home with you!
- **Keep Your Food to Yourself:** By feeding wildlife, people can unnaturally, and unintentionally, increase the population of animals that prey on nesting shorebirds, their eggs, and young.



Black skimmers, like other nesting shorebirds, "flush" off the nest when disturbed, leaving their eggs vulnerable. Unleashed dogs entering closure areas are a threat.

## STRANDED MARINE ANIMALS

1. Call (252) 216-6892 to report any live or dead beached dolphin, whale, or seal. Be ready to provide your location and a description of the animal. Try to stay with the animal until help arrives.
2. Do not touch beached marine mammals or let pets near them as there is always a potential to become exposed to diseases.
3. Resist pushing the animal back into the water. Beached animals are generally very sick and pushing them back out prevents rangers from providing immediate care.

## Welcome to Pea Island & Alligator River National Wildlife Refuges!

Nestled in the center of Cape Hatteras National Seashore on the north end of Hatteras Island, Pea Island National Wildlife Refuge provides valuable habitat for more than 300 species of migratory birds, several endangered and threatened species, and many non-bird species of native wildlife.

Don't forget to visit the new National Wildlife Refuges Visitor Center on Roanoke Island where you can get a taste of eleven national wildlife refuges.

Crossing over to the mainland, you will find Alligator River National Wildlife Refuge. Explore this refuge with its unique pocosin habitat, a forested wetland unique to the mid-Atlantic coastal area.



For detailed program descriptions, scan the QR code, call (252) 216-9464, or visit: [www.fws.gov/ncgatewayvc/spec.html](http://www.fws.gov/ncgatewayvc/spec.html)

## Alligator River and Pea Island National Wildlife Refuges 2016 Guided Interpretive Programs – Weekly June / July / August

Circled Number is Location Code (see map page 6) — All programs are free unless noted. \$ = fee charged; R = reservation is required, call (252) 216-9464.

| PROGRAM DESCRIPTIONS  | TUES              | WED               | THURS             | FRI               |
|---|-------------------|-------------------|-------------------|-------------------|
| <b>Van Tour (\$)(R)</b> – Alligator River Refuge Creef Cut Trail Parking ②      | 7 - 9 am          | 7 - 9 am          |                   |                   |
| <b>Bird Walk</b> – Pea Island Refuge Visitor Center ④                           |                   | 8 - 9:30 am       |                   | 8 - 9:30 am       |
| <b>Tram Tour (\$)(R)</b> – Alligator River Refuge Creef Cut Trail Parking ②     |                   |                   | 8:30 - 11 am      |                   |
| <b>Canoe Tour (\$)(R)</b> – Pea Island Refuge Visitor Center ④                  |                   | 9 - 11 am         | 9 - 11 am         | 9 - 11 am         |
| <b>Canoe Tour (\$)(R)</b> – Alligator River Refuge Buffalo City Boat Launch ①   |                   | 9 am - noon       | 9 - 11 am         | 9 - noon          |
| <b>Refuge/Wildlife Movies</b> – Refuges Visitor Center Roanoke Island ③         | 9:30 am - 3:30 pm |
| <b>Preschool Young Naturalist</b> – Refuges Visitor Center Roanoke Island ③     |                   |                   |                   | 10 - 11 am        |
| <b>Turtle Talk</b> – Pea Island Refuge Visitor Center ④                         | 2:30 - 3:30 pm    |                   |                   |                   |
| <b>Bird Adaptions</b> – Pea Island Refuge Visitor Center ④                      |                   | 2:30 - 3:30 pm    |                   |                   |
| <b>Bees, Bat &amp; Butterflies</b> – Pea Island Refuge Visitor Center ④         |                   |                   | 2:30 - 3:30 pm    |                   |
| <b>Bear Necessities</b> – Alligator River Refuge Creef Cut Trail Parking ②      |                   | 5:30 - 7 pm       |                   |                   |
| <b>Red Wolf Howling (\$)</b> – Alligator River Refuge Creef Cut Trail Parking ② |                   | 7:30 - 9 pm       |                   |                   |

The schedule may change without notice. Programs are subject to weather.  
Sunscreen and bug repellent are recommended for all outdoor programs.

## Cape Lookout National Seashore



Portsmouth Village, Cape Lookout National Seashore

Just south of Ocracoke Island lies Portsmouth Island, part of Cape Lookout National Seashore. Portsmouth Island is known for its pristine natural beaches and for Portsmouth Village, a community where buildings still stand, but only memories remain.

Established in 1753, Portsmouth Village was once the largest settlement on the Outer Banks. A depressed economy and damage from hurricanes were largely responsible for a gradual decline, and eventual depletion, of village inhabitants. Although there has been no one living in this tiny coastal village since the 1970s, many of the buildings still stand tall.

For a boat shuttle to Portsmouth Island and village, call the park's concession, Austin Boat Tours, at (252) 928-4361. For more information on the park go to [www.nps.gov/caloc](http://www.nps.gov/caloc). Also, follow the park on Twitter @CapeLookoutNPS.

