

# Grand Canyon

National Park Service  
U.S. Department of the Interior  
Grand Canyon National Park  
Arizona



# The Guide

South Rim: September 7–November 30, 2010  
Also available in Deutsch, Español, Français, Italiano,  
日本語, 中文, 한국어



Inside the canyon looking up  
NPS photo by Michael Quinn

## For answers to your questions about...

**MAPS** Finding your way around the South Rim can be confusing, especially with the many changes that have taken place over the last few years. Maps of roads and facilities are on pages 8–9 and 16. Be aware that some GPS devices do not accurately direct you to locations on the South Rim.

**VISITOR CENTERS** Park rangers at the visitor centers answer your questions and help plan your visit. A list of visitor centers and open hours is on page 4.

**FREE SHUTTLE BUSES** The white buses with a green stripe (*right*) provide the easiest way around the Grand Canyon Village area. The centerfold, pages 8–9, shows routes, stops, and operating hours. Additional information on riding the free shuttle buses is found on page 4.

**HIKING** An enjoyable way to experience the canyon is to walk one of its trails. For hiking information, from a casual stroll along the rim to a multiday hike into the canyon, see pages 6–7.

**RANGER PROGRAMS** Want to learn more about Grand Canyon? Participate in a ranger program. Walks, talks, and evening programs are scheduled throughout the day. Choose an activity or two from those described on pages 2–3.

**SUNRISE AND SUNSET** Any viewpoint along the rim provides an opportunity to enjoy the drama and beauty of sunrise or sunset. Arrive an hour or more before sunset or stay for a while after sunrise to experience the play of colors and shadows in the canyon. Sunrise and sunset times are given on page 4.

**HUNGRY? TIRED?** Restaurants, lodging, campgrounds, gift stores, and other visitor services are listed on pages 14–15.

This publication contains information to plan your visit and answers to many of your questions. Please take time to read *The Guide*.

## Welcome to Grand Canyon National Park

To stand on the rim and gaze into the depths of the canyon is a lifetime goal for many people. Due to recent construction, both first time visitors and those who have been to the South Rim previously may find exploring the area confusing.

A few suggestions may make your visit more rewarding. The information in this publication will answer many of your questions. Stop by a visitor center and talk with a ranger. Participate in a ranger-led activity. Save gas and frustration; park your vehicle and ride the free shuttles. Watch a sunrise or sunset. Walk out at night to enjoy the star-filled sky or the moon-lit canyon. Hike into the canyon and progress backward in geologic time. May you form memories that last a lifetime.



## Mather Point and Grand Canyon Visitor Center Construction

Work on a new trail suitable for visitors in wheelchairs and others with mobility concerns will prevent walking out to Mather Point for much of the fall. The Rim Trail east and west of Mather Point provides stunning views of the canyon during construction. Ask at the Grand Canyon Visitor Center for current conditions.

The Grand Canyon Visitor Center remains open during construction of the adjacent theater and new displays in the plaza. Please stay out of fenced construction areas and obey all signs and restrictions.

## Look inside for information on:

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## What Time Is It?

Most of Arizona, including Grand Canyon National Park, remains on Mountain Standard Time year-round. Until November 6, Arizona is on the same time as California and Nevada. Beginning November 7 Arizona is on the same time as Colorado, New Mexico, and Utah.

## Emergency: 911

24 hours-a-day dial  
911 from any phone  
9-911 from hotel phones






Thinking of  
Hiking?  
See pages 6–7

The National Park Service cares for special places saved by the American people so that all may experience our heritage.

# Ranger Programs

During your visit the National Park Service encourages you to participate in the programs listed below. All programs are free.

## Grand Canyon Village

Activity	Location	Time	Duration	Frequency
<b>The Human Story</b>   <p>For thousands of years, humans have been part of Grand Canyon. Join park staff at Verkamp's Visitor Center to take a look at the history of the South Rim area. Programs may include a walk around the village historic district or a talk inside if the weather is poor. Parking may be limited; consider parking at Lot C or riding the free Village Route shuttle bus to the Train Depot stop.</p>	<b>Verkamp's Visitor Center</b>	9:00 a.m.	30–45 minutes	Daily
<b>Introduction to Grand Canyon's Geology</b>   <p>Why is the Grand Canyon so deep, wide, and grand? Why does it exist only here in the world? Come and participate in this fascinating talk to learn how Grand Canyon formed.</p>	Bicycle rack outside <b>Yavapai Geology Museum</b>	9:30 a.m.	30–45 minutes	Daily
<b>Raptors in Flight</b>   <p>Observe the fall hawk migration over Grand Canyon with a representative from HawkWatch International. Learn to identify raptors in flight and find out more about why and how these birds migrate. Binoculars are recommended. Yaki Point is closed to private vehicles. To arrive on time, catch the Kaibab Trail Route shuttle bus from Grand Canyon Visitor Center by 9:50 a.m. for the morning program, or 2:05 p.m. for the afternoon program. <b>Last talks given October 31.</b></p>	<b>Yaki Point</b> shuttle bus stop	10:15 a.m. and 2:30 p.m.	30 minutes	Tuesday Thursday Saturday Sunday
<b>This program ends October 31.</b>				
<b>Mather Point Amphitheater Talk</b>    <p>Grand Canyon is a colorful landscape with a rich history. Enjoy an intriguing talk with a park ranger at our new outdoor amphitheater on the rim of Grand Canyon exploring natural or cultural history. Parking is available in the lots near Grand Canyon Visitor Center or consider riding the free Village Route shuttle bus to the Grand Canyon Visitor Center stop.</p>	<b>Mather Point Amphitheater</b> , a short walk from Grand Canyon Visitor Center	12:30 p.m.	20–30 minutes	Daily
<b>Porch Talk</b>   <p>Grand Canyon is a spectacular place with amazing resources and stories. Join a ranger for this short program. Topics will vary. Parking may be limited; consider parking at Lot C or riding the free Village Route shuttle bus to the Train Depot stop. This program is an excellent choice for train passengers.</p>	<b>Verkamp's Visitor Center</b> front porch	2:00 p.m.	20 minutes	Daily
<b>Condor Talk</b>  <p>Learn about the California condor, a highly endangered and majestic bird and its reintroduction in northern Arizona in a talk on the canyon's rim. Parking is limited; consider parking in Lot C or D or riding the free Village Route shuttle bus to the Bright Angel Lodge stop. You may have to use stairs to arrive at the program site.</p>	In front of <b>Lookout Studio</b> near Bright Angel Lodge	2:30 p.m.	30–45 minutes	Daily
<b>Geo-Glimpse</b>   <p>Learn about the canyon's geology during this short talk and enjoy the geology exhibits at Yavapai Geology Museum. Parking may be available in the Yavapai Point parking area or plan to arrive by the free Village Route shuttle bus to the Yavapai Geology Museum stop. Consider walking the Trail of Time after the program.</p>	Inside <b>Yavapai Geology Museum</b>	3:00 p.m.	15–20 minutes	Daily
<b>Evening Program</b>   <p>The perfect way to end your day! Relax beneath the stars until September 11 or inside as the weather turns colder beginning September 12. Enjoy a ranger presentation on the canyon's fascinating natural or cultural history. For this evening's topic check the schedules posted around the park. Arrive by walking, driving, or riding the free Village Shuttle bus. Dress warmly and bring a flashlight for the outdoor presentations. Accessibility note: Although the trails to the amphitheater are paved, short sections exceed 5% grade.</p>	<b>McKee Amphitheater</b> , behind Park Headquarters through September 11 <b>Shrine of the Ages</b> auditorium beginning September 12	7:00 p.m.	1 hour	Daily
<b>Additional Programs</b> <p>As staffing permits, rangers present additional activities including fossil walks, Kolb Studio tours, moon walks, and star talks. Watch for program announcements posted at the Grand Canyon Visitor Center, along the rim near Verkamp's Visitor Center or the Bright Angel Lodge patio, or at Yavapai Geology Museum.</p>	Locations vary	Varies	Varies	Varies

We hope that learning more about Grand Canyon National Park and its resources will lead to a greater appreciation of your national park.

## Desert View and Tusayan Museum

### Glimpses of the Past

Have you ever wondered what life was like at Grand Canyon 800 years ago? How did people find food, water, and shelter? Join a ranger to explore the remains of an ancestral Puebloan village. Envision a thriving community in this harsh and demanding environment. Program includes a 0.1 mile (0.2 km) walk on a flat, paved trail.

<b>Tusayan Museum</b> , 3 miles / 5 km west of Desert View	11:00 a.m. and 1:30 p.m.	30–45 minutes	Daily
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## Inside the Canyon You must hike or ride the mules to Phantom Ranch.

### Phantom Ranch

These programs end November 28.

Talks and evening programs cover a wide range of natural and cultural history topics. Check the Bright Angel Campground bulletin board or the Phantom Ranch Canteen for program locations and subjects. Junior Ranger activity booklet available.

<b>Phantom Ranch</b>	4:00 p.m. and 7:30 p.m.	45 minutes	Daily
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**Children must be accompanied by an adult on all programs.**

These family-oriented programs are ideal for meeting the ranger program requirement for the Grand Canyon's Junior Ranger award. Any ranger program, however, will meet the requirement on page 2 of the Junior Ranger Activity Booklet.



All outdoor programs may be canceled during rain, snow, or lightning storms.



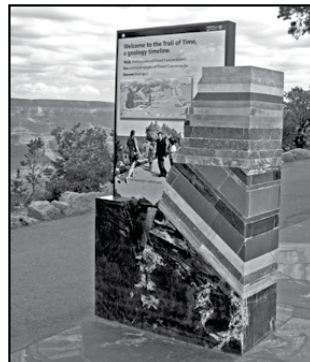
These programs are wheelchair accessible with assistance. Wheelchairs may be checked out at the Grand Canyon Visitor Center free of charge.

## Walk a Couple Billion Years on the Trail of Time

As you walk along the Rim Trail between Yavapai Geology Museum and Verkamp's Visitor Center, you will encounter brass markers embedded in the path every meter (three feet) along with a series of rock samples from within the canyon depths. These markers and rocks are part of the Trail of Time—a geologic timeline in which each meter represents one million years in Earth's history.

The Trail of Time is an interpretive timeline that uses Grand Canyon vistas and rocks to guide visitors to ponder, explore, and understand the unfathomable vastness of geologic time and the stories encoded in Grand Canyon rock layers and landscapes. Envisioned by Dr. Karl Karlstrom from the University of New Mexico, funding for the Trail of Time was provided by a National Science Foundation Informal Science Education Program grant. University professors, exhibit designers, and park interpreters cooperated to ensure that the Trail presents the geologic history of the canyon.

You can walk forward or backward in time! Begin just west of Yavapai Geology Museum to walk backward in time



from today toward the oldest rocks in the Grand Canyon, Elves Chasm gneiss (1,840 million years old). Or, begin east of Verkamp's Visitor Center and walk forward in time from 2,000 million years ago toward the youngest rock in the Grand Canyon, Kaibab Limestone (270 million years old).

As you explore along the Trail of Time, touch rock samples from deep within Grand Canyon, use viewing tubes to focus on geologic features below the rim, learn about the geologic processes that formed the rocks of the canyon walls, and ponder the magnificent depth and scale of Grand Canyon.

This exhibit is only one part of the National Park Service's efforts to provide park visitors with an integrated geoscience interpretive program. To learn more about the geology of Grand Canyon, geologic processes, and geologic time, visit the Yavapai Geology Museum at Yavapai Point, attend a ranger-led geology program, pick up a geology brochure from one of the boxes along the Rim Trail, or visit the Trail of Time web site at [tot.unm.edu](http://tot.unm.edu).

Join us for the dedication of the Trail of Time on Wednesday, October 13, at 2:00 p.m. by Verkamp's Visitor Center. This is only one event during the National Park Service's Earth Science Week. Interpretive park rangers and scientists from the Division of Science and Resource Management will present a variety of special programs focusing on fossils and the park's geology. Check at any National Park Service visitor center or park headquarters for a complete schedule of events or visit [www.nps.gov/grca/planyourvisit/earth-sci-week.htm](http://www.nps.gov/grca/planyourvisit/earth-sci-week.htm).

## Special Events Calendar

Inquire at any visitor center for details on these activities.

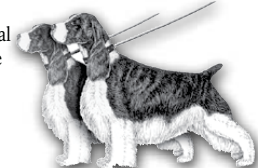
<b>September 10–12</b>	<i>Grand Canyon Music Festival</i> See article on page 10.
<b>September 11–November 28</b>	<i>Grand Canyon Celebration of Art</i> See article on page 10.
<b>September 18</b>	7:00 p.m. Shrine of the Ages <i>Buckey O'Neill: Arizona Pioneer</i> Rough Rider Historical Association
<b>September 21</b>	1:30 p.m. West of Verkamp's Visitor Center Commemoration of Grand Canyon National Park quarter.
<b>October 10–16</b>	<i>Earth Science Week</i> Special programs throughout the week.
<b>October 13</b>	2:00 p.m. Verkamp's Visitor Center Dedication of the <i>Trail of Time</i> . See adjacent article.

## Pets Must Be Leashed at All Times

Leashed pets are allowed on rim trails throughout the developed areas of the South Rim, but not below the rim. The only exception is service animals.

Persons wishing to take a service animal below the rim must check in first at the Backcountry Information Center.

Kennels are available.  
Telephone: (928) 638-0534.



# Enjoying Grand Canyon

**Visitor Centers** See pages 2–3 for ranger programs at these locations. A passport cancellation stamp is available in all these facilities.



### Kolb Studio

Open daily 8:00 a.m.–7:00 p.m. until September 30, 8:00 a.m.–6:00 p.m. beginning October 1. Located in the Village Historic District at the Bright Angel Trailhead, Kolb Studio is the restored home and business of the Kolb brothers, pioneering photographers at Grand Canyon. Visit the free exhibits in the auditorium (see page 10) and shop in the bookstore.



### Verkamp's Visitor Center

Open daily 8:00 a.m.–7:00 p.m. until September 30, 8:00 a.m.–6:00 p.m. beginning October 1. This visitor center resides in one of the oldest buildings on the South Rim. Operated as a curio shop for more than 100 years by the Verkamp family, the building now features displays telling the history of Grand Canyon Village and a Grand Canyon Association bookstore.



### Yavapai Geology Museum

Open daily 8:00 a.m.–8:00 p.m. until September 30, 8:00 a.m.–7:00 p.m. October 1–31, 8:00 a.m.–6:00 p.m. beginning November 1. How old is the canyon? How did it form? The exhibits at Yavapai Geology Museum answer these and other geology questions. The historic building, located one mile (1.6 km) east of Market Plaza, features expansive canyon views. The bookstore offers a variety of materials about the area.



### Grand Canyon Visitor Center

Visitor Center open daily 8:00 a.m.–5:00 p.m. Bookstore open daily 8:00 a.m.–7:00 p.m. until September 30, 8:00 a.m.–6:00 p.m. beginning October 1. The new parking areas allow for easy access to Grand Canyon Visitor Center. Rangers help plan your visit. The visitor center remains open during construction. View the outdoor exhibits anytime.



### Tusayan Museum

Open daily 9:00 a.m.–5:00 p.m. A visit provides a glimpse into the rich heritage of the area's past and present native cultures. Artifacts span the last 10,000 years—Paleo-Indian projectile points, split-twig figurines of the Desert Archaic people, pottery and ruins from the ancestral Pueblos, and art from contemporary tribes. Located three miles west of Desert View. Free admission.



### Desert View Visitor Center

Open daily 9:00 a.m.–5:00 p.m. How does the canyon inspire you? Explore how this magnificent landscape has inspired artists, writers, musicians, and conservationists. Support the park with a purchase in the Grand Canyon Association bookstore.

## Canyon's Best Bargain: The Free Shuttle Bus System

For more than 30 years the National Park Service has provided a free shuttle bus system on the South Rim. The buses use compressed or liquefied natural gas, a clean burning fuel. Buses have provisions for improved accessibility and can accommodate most wheelchairs. All shuttles have racks for bicycles. Riding the shuttles makes your stay more enjoyable, while reducing pollution and decreasing traffic congestion.



### How do I use the shuttles?

The map on pages 8–9 is the key. The map shows routes, stops, operating times, and route lengths. Park your vehicle in one of the parking areas, proceed to the nearest shuttle stop, and board the next bus. The buses come by every 10–20 minutes. You do not need to obtain a ticket, and you are free to get on or off at any stop. You can ride to a stop, enjoy the view, shop at a gift store, or walk along the rim, then hop on a later shuttle.

### Where do the shuttles go?

Three shuttle routes operate during the fall. The routes do not overlap, although they interconnect. Buses show the route name on the front display panel.

### Hermits Rest Route (red)

The western-most route winds seven miles along the rim to Hermits Rest, stopping at viewpoints along the way.

### Village Route (blue)

This loop connects visitor centers, lodging, restaurants, gift shops, and campgrounds. It provides the best means to get to many of the ranger programs.

### Kaibab Trail Route (green)

Leaving from Grand Canyon Visitor Center, this route goes to the South Kaibab Trailhead and two viewpoints to the east.

The free shuttles serve the developed area along the rim between Hermits Rest and Yaki Point, but do not travel to Desert View.

## Sunrise & Sunset

Date	Sunrise	Sunset
September 7	6:05 a.m.	6:47 p.m.
September 12	6:09 a.m.	6:40 p.m.
September 19	6:14 a.m.	6:30 p.m.
September 26	6:20 a.m.	6:19 p.m.
October 3	6:25 a.m.	6:09 p.m.
October 10	6:31 a.m.	5:59 p.m.
October 17	6:37 a.m.	5:50 p.m.
October 24	6:44 a.m.	5:41 p.m.
October 31	6:50 a.m.	5:34 p.m.
November 7	6:57 a.m.	5:27 p.m.
November 14	7:04 a.m.	5:21 p.m.
November 21	7:11 a.m.	5:17 p.m.
November 28	7:18 a.m.	5:15 p.m.

## Moon Phases

New moon	Full moon	Moon rise
September 8		
	September 22	5:51 p.m.
October 7		
	October 22	5:18 p.m.
November 5		
	November 21	5:14 p.m.

All times are Mountain Standard Time.

# Enjoying Grand Canyon

## Planning Your Grand Canyon Experience



Individual interests, available time, and the weather can influence your visit. Use the information in this publication and talk with a ranger in one of the visitor centers to help make your Grand Canyon experience memorable. The National Park Service and park concessioners hope you have a rewarding visit.

### If you have only an hour or two

Go to one of the viewpoints such as Mather, Yavapai, or Yaki Points and immerse yourself in the view. Walk a short distance along the Rim Trail and watch the changing patterns of light and shadow in the canyon. How many languages can you identify being spoken by other visitors?



### Accessibility

An accessibility permit, allowing access to some areas closed to public traffic, is available at entrance gates, the Grand Canyon Visitor Center, Verkamp's Visitor Center, Park Headquarters, Kolb Studio, El Tovar Concierge Desk, and the Bright Angel Lodge, Yavapai Lodge, and Maswik Lodge Transportation Desks.

### Day-Use Wheelchairs

The National Park Service provides wheelchairs at no charge at the Grand Canyon Visitor Center.

### Accessible Tours

Wheelchair-accessible tours are available by prior arrangement. Contact any lodge transportation desk or call (928) 638-2631 for information. TDD telephones are available to hotel guests in the park.

### If you have half a day

Stop at one of the visitor centers and learn more about the geology or history of the area. Participate in a ranger program. Ride the free Hermits Rest Route shuttle to Hermits Rest, getting off at the Monument Creek Vista stop, and walking or bicycling the Greenway Trail to Pima Point. Start the Trail of Time near the Yavapai Geology Museum to see and touch rocks from inside the canyon. Walk around the historic district to explore some of Mary Colter's buildings.

### If you have all day

Walk a short distance down the Bright Angel or South Kaibab Trails, keeping in mind that it is much easier walking down than climbing back up. Drive east on Desert View Drive, enjoying the overlooks along the way and stopping at Tusayan Museum and the Desert View Watchtower. Rent a bicycle and ride along Hermit Road, keeping in mind that you can ride the shuttle if you get tired. Be at one of the viewpoints an hour before sunset to savor the changing colors and shadows. Help your children attain their Junior Ranger badge. Stop by Kolb Studio and view the artwork in the auditorium. Walk a dirt-surfaced portion of the Rim Trail west of Hopi Point for a less crowded experience.

### If you have two or more days

The canyon is yours to enjoy and explore. Arise early and take in a sunrise. Hike a trail and notice how much warmer it becomes as you descend into the canyon. If you are an experienced hiker, consider using one of the more remote trails such as the Hermit Trail. Venture away from the popular viewpoints, find a sunny spot to sit, and experience the quiet of the canyon. Attend several ranger-led activities, ending your day with the Evening Program. Step out at night to experience a truly dark sky illuminated by countless stars.

If you have the time, visiting the North Rim, approximately a five-hour drive, provides a different perspective of the canyon. Other attractions in the area include the national monuments near Flagstaff, Arizona; the colorful national parks in southern Utah; water recreation available on Lake Powell; and the Skywalk, a glass-bottomed platform extending from the rim of the canyon, on the Hualapai Indian Reservation at the far western end of Grand Canyon.

As you experience this remarkable landscape, pause to thank past generations for their foresight in preserving and protecting it.

## Environmental Education

### Class Field Trips and Teacher Workshops

The Environmental Education staff invites teachers and students to take advantage of our free educational programs. We offer nine ranger-led field trip programs at the canyon covering geology, ecology, and history topics. The field trips, suitable for grades K-7, address Arizona and national academic standards. Rangers also visit classrooms and present two-way video conferencing. The National Park Service presents low-cost teacher workshops including walk-throughs of the field trips and classroom lesson plans. Advanced reservations are required. Contact (928) 638-7931 or [www.nps.gov/grca/forteachers/](http://www.nps.gov/grca/forteachers/) for more information.

**High school youth summer camps** Participants hike the canyon, ride river rapids, and join park rangers for service projects. For a description of the camps: [www.nps.gov/grca/forkids/camp.htm](http://www.nps.gov/grca/forkids/camp.htm). For registration, visit Grand Canyon Youth at [www.gc youth.org](http://www.gc youth.org).



## Would you like to be a Junior Ranger?



The National Park Service offers a Junior Ranger program for children ages 4 and older. Pick up a *Junior Ranger Activity Book* at the Grand Canyon Visitor Center, Verkamp's Visitor Center, Tusayan Museum, or Desert View Visitor Center and complete the activities for the appropriate age level. A special Junior Ranger program is available at Phantom Ranch.

After attending a ranger program and completing the required activities in the booklet, bring it back to the Grand Canyon Visitor Center, Verkamp's Visitor Center, Tusayan Museum, or Desert View Visitor Center to receive an official Junior Ranger certificate and badge.

## Cell Phone Tour

Your cell phone provides another way to learn more about Grand Canyon National Park. Listen to a narration over your cell phone at numerous spots of interest on the South Rim between Maricopa and Yaki Points.



Wherever you see a cell phone tour sign, dial (928) 225-2907 and enter the indicated stop number. You will hear an interpretive ranger give a two-minute synopsis on various aspects of the canyon from geology to Native American history to the night sky.

There is no additional charge to listen to these messages. Please be aware that cell phone coverage can be spotty and not all providers offer service in the park.

# Day Hiking



## Before You Go . . .

### Plan Ahead

As a day hiker no permits are required. You are entirely on your own. Your descent into the canyon, however brief, marks your entry into a world in which preparation, self-reliance, and common sense are crucial.

### Fall Weather Varies

Inner canyon temperatures in September can soar past 100° F (38° C). The first snowstorms may come to the South Rim as early as mid-October. Know the weather forecast and dress appropriately.

### Double Your Calories, Double Your Fun

Salty snacks and water or sports drinks should be consumed on any hike lasting longer than 30 minutes. Food is your body's primary source of fuel and salts (electrolytes) while hiking in the canyon.

If you do not balance your food intake with your fluid consumption, you run the risk of becoming dangerously debilitated and severely ill. For every hour hiking in the canyon, you should drink ½ to 1 quart (liter) of water or sports drinks.

Your best defense against illness and exhaustion is to eat a large breakfast, a full lunch, a snack every time you take a drink, and a rewarding full dinner at the end of the day. This is not a time to diet.

### Watch Your Time

Plan on taking twice as long to hike up as it took to hike down. Allow 1/3 of your time to descend and 2/3 of your time to ascend.

### Mules and Hikers

Encounters between hikers and mules have resulted in injuries to packers and the death of some mules. To ensure safety for yourself, other trail users, and mule riders, when encountering mules on the trails:

- Step off the trail on the uphill side away from the edge.
- Follow the directions of the wrangler. Remain quiet and stand perfectly still.
- Do not return to the trail until the last mule is 50 feet (15 m) past your position.

### Hiking Tips

- 1 Be Prepared:** Know your route. Autumn days are growing shorter. The weather may change dramatically. Carry a map, flashlight, and extra clothing including wind and rain protection.
- 2 Stay Comfortable:** If it is hot, reduce your pace and hike during the cooler hours of the day. Wet your shirt and hat to stay cooler. If it is cool, add layers and do not forget your hat. It is important to stay dry and out of the wind.
- 3 Go Slowly:** If you can carry on a conversation, you are hiking at the right pace. If you find yourself out of breath, your legs and digestive system are not getting enough oxygen. Lack of oxygen can cause fatigue, heavy legs, and exhaustion.
- 4 Rest Often:** Sit down, prop your legs up, and take a 10-minute break at least once every hour.
- 5 Eat and Drink Frequently:** Balance your food and water intake. Salty snacks help replace electrolytes lost through perspiration. Eat a salty snack every time you drink.

## Hiking Chart for some popular day hike destinations

**Warning!** National Park Service rangers recommend that you do not attempt to hike from the rim to the river and back in one day, because of the distance, high canyon temperatures, low humidity, and the steepness of the trails. Few trails form loops; you will be hiking on the same trail in both directions.

**You are responsible for the safety of yourself and those in your party!**

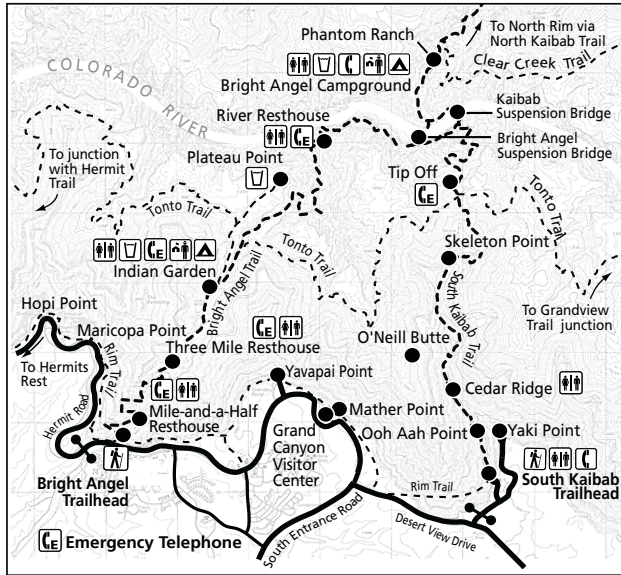
Trails	Destination	Round trip distance	Approximate time round trip	Elevation change	Notes
<b>Rim Trail (mostly flat, many sections suitable for wheelchairs)</b>					
With easy grades and quiet views, this trail winds along the rim from Hermits Rest east to South Kaibab Trailhead. Combine walking a portion of the trail with a shuttle ride.	Follows the rim for 13 miles	Your choice	15 minutes to half-a-day or more	200 feet 60 m	Mostly paved, except dirt from Monument Creek Vista east to Maricopa Point
<b>Bright Angel Trail (steep, but popular)</b>					
The most popular trail into the canyon begins west of Bright Angel Lodge. Some shade and seasonal water (subject to line breaks). Check at visitor centers or the Backcountry Information Center for trail condition. Hiking to the river and back in one day is not recommended.	1 ½-Mile Resthouse	3 miles 4.8 km	2–4 hours	1,131 feet 345 m	Rest rooms Water May–Sept.
	3-Mile Resthouse	6 miles 9.6 km	4–6 hours	2,112 feet 644 m	Rest rooms Water May–Sept.
	Indian Garden	9.2 miles 14.8 km	6–9 hours	3,060 feet 933 m	Rest rooms Water year-round
<b>Plateau Point is extremely strenuous.</b>					
	Plateau Point	12.2 miles 19.6 km	8–12 hours	3,195 feet 974 m	Water year-round View of river
<b>South Kaibab Trail (steep with expansive views)</b>					
Trail begins south of Yaki Point; you must ride the free shuttle bus to the trailhead. Best views for a relatively short hike, but no afternoon shade. Hiking to the river and back in one day is not recommended	Ooh Aah Point	1.8 miles 2.9 km	1–2 hours	600 feet 180 m	No water First view east
	Cedar Ridge	3 miles 4.8 km	2–4 hours	1,140 feet 347 m	Rest rooms No water
	Skeleton Point	6 miles 9.7 km	4–6 hours	2,040 feet 622 m	No water; second hitching rail
<b>Hermit Trail (steep and rocky)</b>					
This rough, unmaintained trail starts 500 feet (150 m) west of Hermits Rest. Recommended for experienced desert hikers, this trail has little afternoon shade. Hiking boots recommended. Water from springs must be treated.	Waldron Basin	3 miles 4.8 km	2–4 hours	1,240 feet 380 m	No water, little shade
	Santa Maria Spring	5 miles 8 km	4–6 hours	1,760 feet 540 m	Treat water
	Dripping Springs	7 miles 11 km	5–7 hours	1,400 feet 430 m	Treat water Narrow trail



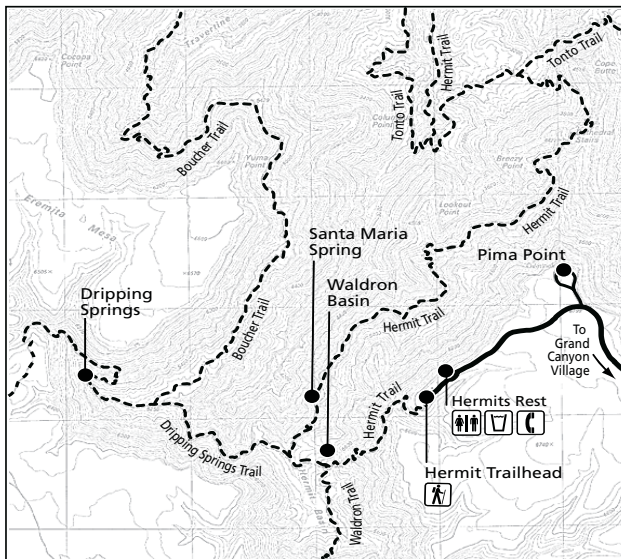
The **Hikers' Express** runs directly from the Bright Angel Lodge shuttle bus stop, the Backcountry Information Center, and the Grand Canyon Visitor Center to the South Kaibab Trailhead daily at:  
**September:** 5:00 a.m., 6:00 a.m., and 7:00 a.m. **October:** 6:00 a.m., 7:00 a.m., 8:00 a.m.  
**November:** 7:00 a.m., 8:00 a.m., and 9:00 a.m.

# Hiking and Camping Below the Rim

## Corridor Trails: Bright Angel and South Kaibab



## Hermit Trail



## Backpacking Permits

**Backcountry Information Center**  
 P.O. Box 129  
 Grand Canyon, AZ 86023  
 (928) 638-7875 Phones answered only  
 1:00 p.m. – 5:00 p.m. Monday – Friday  
[www.nps.gov/grca/](http://www.nps.gov/grca/)

Overnight backpacking in Grand Canyon provides a degree of solitude, wildness, and silence that is increasingly difficult to find. A backcountry permit is required for all overnight backpacking, except for guests of Phantom Ranch. Permits can be reserved up to four months in advance. A fee of \$10.00 per permit plus \$5.00 per person per night is collected. The permit program helps to limit impacts to the natural resource while providing a greater degree of solitude for hikers.

Individuals arriving without a permit may be able to obtain one through a daily waiting list. Inquire early in the morning at the Backcountry Information Center, open daily 8:00 a.m. to noon and 1:00 p.m. to 5:00 p.m. For more information, pick up a *Trip Planner* at the Backcountry Information Center or any NPS visitor center.

## Leave No Trace

Leave No Trace is a nonprofit organization dedicated to promoting responsible outdoor recreation through education, research, and partnerships. While enjoying your visit, please consider the following principles to minimize your impact and help protect Grand Canyon for future generations.

1. Plan ahead and prepare
2. Travel and camp on durable surfaces
3. Dispose of waste properly
4. Leave what you find
5. Minimize campfire impacts  
 No campfires in Grand Canyon National Park backcountry.
6. Respect wildlife
7. Be considerate of other visitors

For more information: [www.LNT.org](http://www.LNT.org)

## Health Hazards

Moderation is the key to having an enjoyable hike. Hike within your ability, maintain proper body temperature, balance your food and water intake, and rest often. Emergency situations include:

### Heat exhaustion

Heat exhaustion is the result of dehydration due to intense sweating. Hikers can lose one to two quarts (liters) of water per hour. Rangers at both Phantom Ranch and Indian Garden treat as many as twenty cases of heat exhaustion a day in summer. Symptoms: pale face, nausea, cool and moist skin, headache, and cramps  
 Treatment: drink water, eat high-energy foods, rest in the shade, cool the body

### Heat stroke

Heat stroke is a life-threatening emergency where the body's heat-regulating mechanisms become overwhelmed by a combination of internal heat production and environmental demands. Every year two to three Grand Canyon hikers experience heat stroke.

Symptoms: flushed face, dry skin, weak and rapid pulse, high body temperature, poor judgment or inability to cope, unconsciousness. Victim is in danger!  
 Treatment: find shade, cool victim with water, send for help!

### Hyponatremia

Hyponatremia is an illness that mimics the early symptoms of heat exhaustion. It is the result of low sodium in the blood caused by drinking too much water, not eating enough salty foods, and losing salt through sweating.

Symptoms: nausea, vomiting, altered mental states, and frequent urination  
 Treatment: have the victim rest and eat salty foods. If mental alertness decreases, seek immediate help!

### Hypothermia

Hypothermia is a life-threatening emergency where the body cannot keep itself warm due to exhaustion and exposure to cold, wet, windy weather.

Symptoms: uncontrolled shivering, poor muscle control, and a careless attitude  
 Treatment: put on dry clothing, drink warm liquids, and protect from wind, rain, and cold.

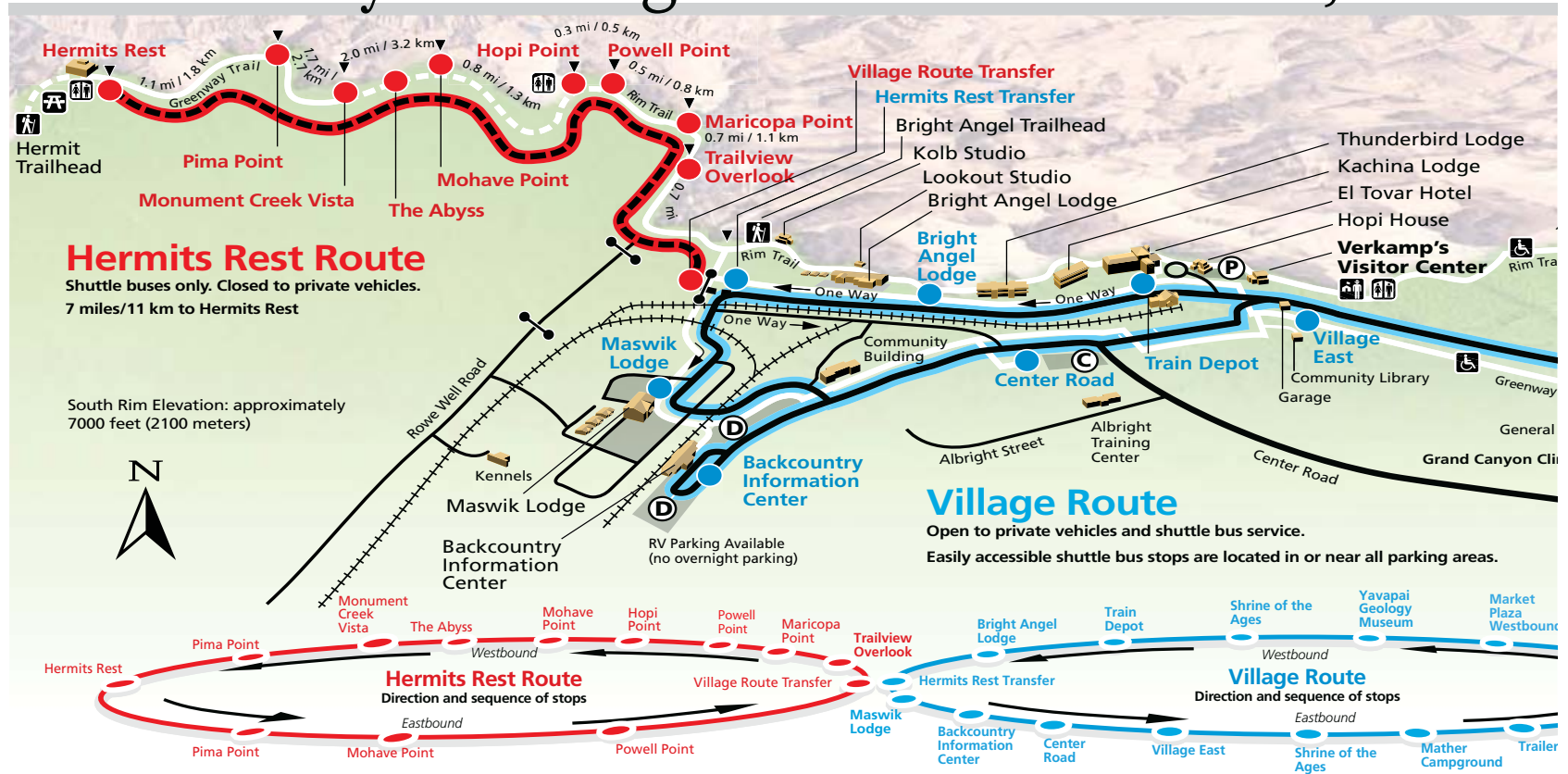
## Want to know more?

Grand Canyon Association bookstores offer many books and maps on hiking. Bookstore hours and locations are listed on page 5. A few items to consider include:

- *Official Guide to Hiking Grand Canyon*, Scott Thybony
- The Grand Canyon Trail Guides series: Bright Angel, Grandview, Havasu, Hermit, North Kaibab, South Kaibab, South and North Bass
- Grand Canyon National Park Trails topographic map



# Grand Canyon Village Shuttle Bus Routes, Points



**Free Shuttle Buses**  
 Free shuttle buses operate on three routes on the South Rim: Hermits Rest Route (indicated in red on the map above), Village Route (blue), and Kaibab Trail Route (green). The routes interconnect, but do not overlap. No tickets are required, and bus stops are clearly marked throughout the park by signs with the above symbol.

Buses are white with a green stripe. The buses show the route name on the front display panel.

All buses are equipped with bicycle racks. Bicycle one way and ride the shuttle the other.

Pets are not permitted on buses.

Service may be suspended during inclement weather.

**Hermits Rest Route**  
 Buses provide transportation between the Village Route Transfer and Hermits Rest (seven miles/11 km) with stops at nine canyon overlooks. Buses stop only at Hermits Rest, Pima, Mohave, and Powell Points on return.

**75 minutes round-trip** (without getting off bus)  
**September, October, and November buses run every:**

30 minutes 5:15 a.m. to 9:30 a.m.  
 15 minutes 9:30 a.m. to sunset  
 30 minutes sunset to one hour after sunset

Sunrise and sunset times are on page 4.

**Village Route**  
 Buses provide transportation between Grand Canyon Visitor Center, Yavapai Point, hotels, restaurants, campgrounds, parking lots, and other facilities in the developed area. This is not a scenic route, but rim views are available a short walk from many stops.

**60 minutes round-trip** (without getting off bus)  
**September, October, and November buses run every:**

30 minutes 5:15 a.m. to 6:30 a.m.  
 15 minutes 6:30 a.m. to 7:30 p.m.  
 30 minutes 7:30 p.m. to 10:00 p.m.

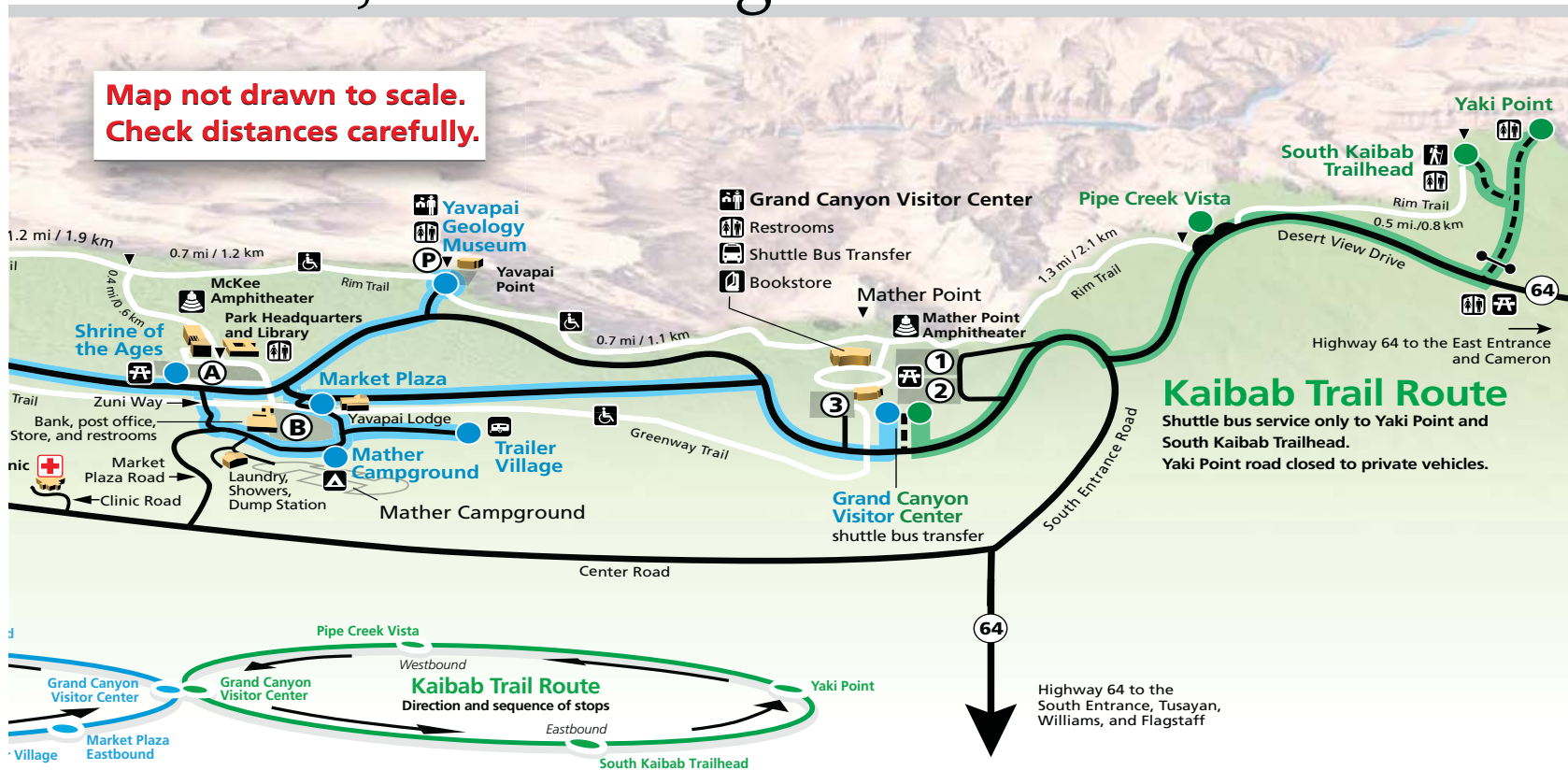
**Kaibab Trail Route**  
 Buses provide transportation between Grand Canyon Visitor Center, South Kaibab Trailhead, Yaki Point, and Pipe Creek Vista. This is the shortest scenic route and the only access to Yaki Point.

**30 minutes round-trip** (without getting off bus)  
**September, October, and November buses run every:**

30 minutes 5:15 a.m. to 6:30 a.m.  
 15 minutes 6:30 a.m. to one hour after sunset



# of Interest, and Parking



**Hikers' Express**  
 An early morning bus leaves daily from the Bright Angel Lodge shuttle bus stop, the Backcountry Information Center, and Grand Canyon Visitor Center shuttle bus stop and goes directly to the South Kaibab Trailhead at:  
**September:** 5:00, 6:00, and 7:00 a.m.  
**October:** 6:00, 7:00, and 8:00 a.m.  
**November:** 7:00, 8:00, and 9:00 a.m.

- P Parking**  
 Location of the lots is indicated on the map above. Avoid parking along the roadside except where signs or lines on the road indicate that it is permissible.
- ① ② ③ Ample lots surround Grand Canyon Visitor Center. RV parking in Lot 1.
- A** Near Park Headquarters. Large lot that frequently has available spots.
- B** Near the businesses in Market Plaza.
- C** This small lot near the intersection of Center and Village Loop Roads offers parking near the historic village district.
- D** Near the Backcountry Information Center. The southern portion of this lot has large, pull-through spaces for RVs and vehicles with trailers.

**Rules of the Road**

**Motorist Warning**  
 Pedestrians have the right of way. Vehicles must stop for pedestrians in crosswalks.

**Pedestrian Warning**  
 Avoid walking on narrow park roads. Use trails that parallel most park roads. Always face traffic.

**Bicyclist Warning**  
 Bicycles are permitted on all paved and unpaved park roads and the Greenway Trails. They are prohibited on all other trails, including the Rim Trail. Bicyclists must obey all traffic regulations. Always ride single file with the flow of the traffic. Wear bright colors and a helmet.

On the narrow Hermit Road bicyclists should pull to the right shoulder of the road and dismount when large vehicles are attempting to pass.

**Legend**

- Shuttle Bus Routes** (Indicated in red, blue, or green)
- Shuttle Bus Stops** (Indicated in red, blue, or green)
- Major Park Roads** (All vehicles)
- Secondary Roads** (All vehicles)
- Shuttle Buses Only**
- Parking**
- Picnic Tables**
- Paved Trails**
- Unpaved Trails**
- Distance between points on trails**

**Not to scale. Check distances carefully.**

# Special Programs

## Celebration of Art: September 11–November 28

The second annual *Grand Canyon Celebration of Art* includes 30 plein air artists at work along the South Rim, a quick draw event and auction, and a juried art competition and show at Kolb Studio.

### September 11–16 Painting along the Rim

Painters will be at work at many locations along the South Rim and may be available to discuss their projects.

### September 16 Evening Program

7:00 p.m. Artists P.A. Nisbet and Joshua Been present a program in the Shrine of the Ages auditorium.

### September 17 Quick Draw and Auction

9:00 a.m. – 11:00 a.m. Artists paint along the rim. Noon – 1:00 p.m. Quick draw paintings will be auctioned on the north lawn of El Tovar Hotel.

### September 18 Exhibit Opening and Awards Reception

10:00 a.m. The exhibit opens to the public with a reception at Kolb Studio.

The exhibit and sale continue at Kolb Studio through November 28.



The proceeds from the Grand Canyon Celebration of Art will go toward funding a permanent art venue to preserve and showcase the art collection of the National Park Service and the Grand Canyon Association.

### Sponsors

The second annual *Grand Canyon Celebration of Art* is presented by the Grand Canyon Association on behalf of Grand Canyon National Park. Major support is provided by Xanterra Parks and Resorts and The Gumbo Foundation. Additional funding is provided by Arizona Public Service, the Cecily Maniaci family, and the Zuckerman Family Foundation. Support for the purchase award is made possible by the Jack Dudley Memorial Fund.

To learn more: [www.grandcanyon.org](http://www.grandcanyon.org).

## Artist in Residence Presentations

Few places have provoked as much wonder and creativity as Grand Canyon. Grand Canyon National Park hosts two Artist-in-Residence (AiR) programs—a seasonal program on the North Rim and a year-round program on the South Rim. Artists, selected through a formal jury process, are awarded three-week residencies. During their time at the canyon, each artist or collaborative group presents programs for visitors and have focused studio time to pursue their projects.



**September:** “Sound artist” Aaron Ximm; San Francisco, California. Aaron composes “soundscapes” and makes site-specific installations using his own field recordings to help the quiet parts of the world speak for themselves. His all-ages outreach programs will invite park visitors along on his “audio walks,” exploring the natural quiet found at Grand Canyon.

**October:** Wood engraver/printmaker Siri Beckman; Stonington, Maine. Siri will offer artist demonstrations of her printmaking process during public open studio-style sessions at Verkamp’s Visitor Center.

**November:** Writer Angela Ragusa and videographer William James Woolf, husband/wife artists from Santu Lussurgui, Italy. Angela writes children’s books, while William’s video project follows a streambed into the canyon. Angela will offer two writing workshops for families and children and William will conduct two workshops about creating video shorts with digital cameras.

All workshops and presentations are free, family-friendly and open to the public. Please check at any visitor center for information on dates, locations and times of Artist-in-Residence programs.

To learn more about the Artist-in-Residence program or if you are interested in applying for a residency visit [www.nps.gov/grca/supportyourpark/air.htm](http://www.nps.gov/grca/supportyourpark/air.htm).

## Participate in HawkWatch



You are invited to join representatives of HawkWatch International at Yaki Point as they record the fall hawk migration from 10:45 a.m. to 4:00 p.m. on Sundays, Tuesdays, Thursdays, and Saturdays through October 31. Visitors are welcome to join in the count or to learn to identify migratory hawks, falcons, and eagles.

To join the experts, take the Kaibab Trail Route shuttle to Yaki Point, then walk a short distance to the southwest (left) along the rim. In addition to these informal contacts, 30-minute *Raptors in Flight* talks will meet at the Yaki Point shuttle stop at 10:15 a.m. and 2:30 p.m. on the same days. For details see page 2.

## Grand Canyon Music Festival

The Grand Canyon Music Festival continues to celebrate its 27th season in September. The Festival also presents the ninth season of its *Native American Composer Apprentice Project* with music education programs at Navajo and Hopi Reservation schools.



For programming notes and ticket information, visit [www.grandcanyonmusicfest.org](http://www.grandcanyonmusicfest.org) or call (800) 997-8285.

### September 10 and 11

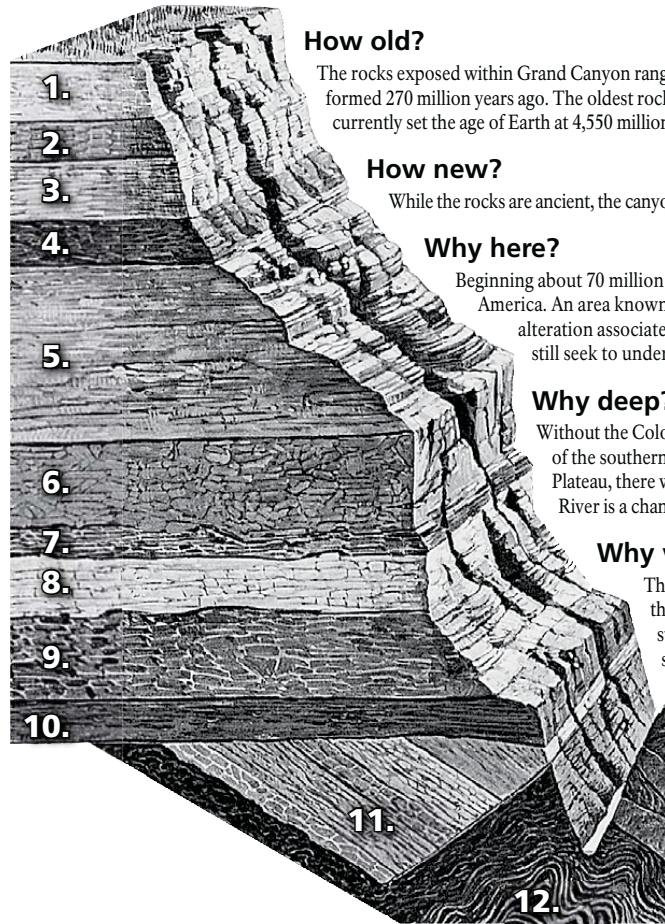
The season concludes with ETHEL’s TruckStop™. The members of ETHEL (left) are joined by Grammy Award-winners Robert Mirabal and Hawaiian slack key guitarist Jeff Peterson at 7:30 p.m. in the Shrine of the Ages auditorium. ETHEL’s TruckStop™ project shines a spotlight on the melting pot of American music. \$15.00 adults; \$8.00 children 6–12

### September 12

Join us for an inspiring evening of music composed by our *Native American Composer Apprentice Project* (NACAP) students. Our 2010 composers-in-residence, Raven Chacon and Trevor Reed, work with students from five Navajo and Hopi high schools. ETHEL performs the students’ compositions at 5:00 p.m. in the Community Building. This concert is free.

# Park Science

## There's Only One Grand Canyon: Basic Answers to Your Geologic Questions



### How old?

The rocks exposed within Grand Canyon range from the fairly young to the fairly old (geologically speaking). Kaibab limestone, the caprock on the rims of the canyon, formed 270 million years ago. The oldest rocks within the Inner Gorge at the bottom of Grand Canyon date to 1,840 million years ago. For comparison geologists currently set the age of Earth at 4,550 million years.

### How new?

While the rocks are ancient, the canyon is young. Geologists generally agree that canyon carving occurred over the last 5–6 million years—a geologic blink of the eye.

### Why here?

Beginning about 70 million years ago, heat and pressure generated by two colliding tectonic plates induced mountain building in western North America. An area known as the Colorado Plateau was raised more than 10,000 feet (3,000 m), but was spared most of the deformation and alteration associated with the uplifting of strata. This high plateau, so critical to Grand Canyon's story, is a geological puzzle that researchers still seek to understand.

### Why deep?

Without the Colorado River, a perennial river in a desert environment, Grand Canyon would not exist. Water draining off the western slopes of the southern Rocky Mountains carried sand and gravel, cutting down through the layers of rock. Without the uplift of the Colorado Plateau, there would not have been the thousands of feet of topography to sculpt. From Yavapai Point on the South Rim to the Colorado River is a change of 4,600 feet (1,400 m), yet the river still flows 2,450 feet (750 m) above sea level.

### Why wide?

The width results from the rock layers collapsing around the river and its tributaries combined with the "headward erosion" of these side streams. Softer, weaker layers erode faster, undermining the harder, stronger layers above them. Without adequate support, the cliffs collapse. The relentless river carries this eroded material to the Gulf of California. Much of what is now southeastern California and southwestern Arizona is covered with material eroded from Grand Canyon.

Over its 277 river miles (446 km), the jagged Grand Canyon varies in width. Along the South Rim, it ranges between 8 and 16 miles (13–26 km) depending upon where you choose to measure.

### Why Grand?

Often described as Earth's greatest geological showcase, the ensemble of stunning dimensions—the melding of depth, width, and length—sets Grand Canyon apart. Nowhere else features such a dazzling variety of colorful rock layers, impressive buttes, and shadowed side canyons. Grand Canyon is the canyon against which all other canyons are compared.

The exhibits at Yavapai Geology Museum and along the nearby Trail of Time explain the geologic processes that formed the rocks and carved the canyon.

### Illustration:

1. Kaibab Formation	270 million years
2. Toroweap Formation	273 million years
3. Coconino Sandstone	275 million years
4. Hermit Formation	280 million years
5. Supai Group	315–285 million years
6. Redwall Limestone	340 million years
7. Temple Butte Formation	385 million years
8. Muav Limestone	505 million years
9. Bright Angel Shale	515 million years
10. Tapeats Sandstone	525 million years
11. Grand Canyon Supergroup	1,200 million–740 million years
12. Vishnu basement rocks	1,840–1,680 million years

### Want to know more?

The geologic story is rich in detail and mystery. Attending a free ranger program may move you from wonder to comprehension. Programs are described on pages 2–3.

Grand Canyon Association bookstores offer many geology related titles. Bookstore hours and locations are listed on page 4. To learn more about geology at Grand Canyon, take a look at:

- *Yardstick of Geologic Time*, Allyson Mathis
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Ranney
- *Ancient Landscapes*, Ron Blakey and Wayne Ranney
- *Anatomy of the Grand Canyon*, W. Kenneth Hamblin

# Park Partners

## Superintendent's Greeting



Fall is a wonderful time to be visiting Grand Canyon. The warm days of September give way to the first snows in October or November. Fewer visitors mean a less hectic pace. Cooler temperatures make hiking into the canyon more enjoyable.

The construction in the Grand Canyon Visitor Center and Mather Point area is continuing this fall. You may not be able to walk out onto Mather Point until the accessible trail is completed in late fall. The completion of this trail permits visitors in wheelchairs to enjoy the view from Mather Point. Please explore carefully in the construction areas and respect all closures.

If you are visiting in September, be sure to interact with the artists participating in the *Celebration of Art*. Artwork from the *Celebration of Art* will be on display in Kolb Studio until November 28. Purchasing a painting would be a unique souvenir of your stay.

The Grand Canyon we visit today is a gift from past generations. Take time to enjoy this gift. Sit and watch the changing play of light and shadows. Wander along a trail and feel the sunshine and wind on your face. Follow the antics of the ravens soaring above the rim. Can you hear the river roaring in the gorge far below? We must ensure that future generations have the opportunity to form connections with this inspiring landscape.

Steve Martin, Superintendent

Steve Martin, Superintendent

## Grand Canyon Association

Get involved and be a part of something grand!

The Grand Canyon Association is a nonprofit membership organization created to inspire and educate people to protect Grand Canyon National Park for the enjoyment of visitors and Grand Canyon enthusiasts around the world. Here is how you can get involved.

### SHOP

You can learn more about Grand Canyon while helping the park by purchasing books and other items from Grand Canyon Association bookstores or online. Proceeds from sales benefit the educational, scientific, historical, and research efforts of the National Park Service. Members receive a 15% discount at all Grand Canyon Association bookstores and our online store: [www.grandcanyon.org](http://www.grandcanyon.org).

### EXPLORE

The Grand Canyon Field Institute, the Grand Canyon Association's outdoor education program, provides great opportunities to learn about, volunteer in, and explore Grand Canyon. One of the most popular classes is *Meet the Canyon: A Family Hiking Adventure*, and you pick the date! For more information, call toll-free 866-471-4435 or visit [www.grandcanyon.org/fieldinstitute](http://www.grandcanyon.org/fieldinstitute).

### DONATE

When you become a member of the Grand Canyon Association, you join a community of people passionate about protecting and sharing the grandeur of Grand Canyon. With donor and member support, the Grand Canyon Association cooperates with the National Park Service to fund a variety of projects and programs—trail restoration, wildlife monitoring, ecological restoration, support for the arts, and historic building preservation.


To become a member or to make a donation, call toll-free 800-858-2808 or [www.grandcanyon.org](http://www.grandcanyon.org).

*Founded in 1932, the Grand Canyon Association is a nonprofit 501(c)(3) organization. Donations are tax-deductible to the extent allowable by law.*

BE A PART OF SOMETHING GRAND

Help us protect one of the Seven Natural Wonders of the World.  
Become a Grand Canyon Association member today!

[www.grandcanyon.org](http://www.grandcanyon.org)  
800-858-2808



**GRAND CANYON ASSOCIATION**  
INSPIRE. EDUCATE. PROTECT.

National Park Service photo by Michael Quinn

# Park News



## Interagency Annual Pass

If you are a frequent visitor to National Park Service or other federal agency sites that charge entrance fees, you may be interested in the *America the Beautiful – National Parks and Federal Recreation Lands Pass*. Five agencies—National Park Service, Bureau of Land Management, Bureau of Reclamation, U.S. Fish and Wildlife Service, and U.S. Forest Service—participate in the program. The \$80.00 pass is valid for one year from the time of first use. The program also offers a lifetime senior pass (\$10.00) for U.S. citizens 62 or over and a free access pass for citizens with permanent disabilities. The *America the Beautiful* pass may be purchased at entrance stations, Grand Canyon Association bookstores, or online at [www.recreation.gov](http://www.recreation.gov). The senior and access passes are issued only at entrance stations.

## Wildlife Alert

Deer and elk can be especially aggressive in the fall!



Fall is the rutting period for deer and elk. During this time animals may become aggressive with any intrusion into their territory. Never approach wildlife. Photograph all animals from the safety of your vehicle. Use telephoto lenses and observe quietly.

It is dangerous and illegal to feed wild animals in a national park. Wildlife can become dependent on handouts and lose their ability to hunt and forage naturally. Such animals may lose their fear of humans and bite, kick, or gore. Help us keep wildlife wild.



### Xanterra South Rim's Environmental Commitment

Xanterra South Rim has raised the bar of environmental performance for ourselves and the tourism industry, by setting standards to improve our environmental performance. Our activities include:

1. Xanterra is one of the few U.S. hospitality companies to achieve ISO 14001 certification of its environmental management system (EMS). We call our EMS "ecologix – the logical integration of business and ecology."
2. In a move that decreases visible emissions from our tour buses by 66 percent and improves fuel economy by close to 20 percent, Xanterra maintains hydrous alcohol injectors (Hydrofire) and throttle controls (DriverMax) on our bus fleet. This is a practical way to reduce pollution in the park from our fleet of motor coaches powered by naturally-aspirated diesel engines. Each motor coach travels an average of 20,000 miles per year.
  - The Hydrofire hydrous alcohol injectors works with the fuel injection system to reduce nitrous oxide (NO<sub>x</sub>) emissions (a contributor to acid rain and smog) and increase the efficiency of the bus
  - The DriverMax throttle controls the acceleration cycle by optimizing fuel flow and operating between the driver's foot throttle and the engine.
3. The recycling program in the park – which accepts a wide range of items commingled in the same bins – has helped increase the amount of trash we keep out of the landfill, raising the percentage from 10 percent to 40 percent. In the brown bins around the park (and the blue ones in our guest rooms), you can recycle paper (including newspaper), plastic bottles (#1 and #2), aluminum cans, glass, metal, and cardboard. We also recycle household batteries (ask at our Retail stores where to leave them).
4. Xanterra is one of only a few companies in the entire tourism industry to produce an environmental sustainability report, publicly disclosing the company's environmental performance. If you stay overnight in our facility, there will be a copy of this report in your room.
5. Xanterra is the first U.S. hospitality company to be granted "Chain of Custody" certification from the Marine Stewardship Council to serve only Alaskan wild salmon and to ban certain types of fish species deemed harmful to the environment.
6. Xanterra South Rim purchases renewable wind power equal to 5% of our total electricity usage. This purchase of almost 670,000 kWh is the equivalent of taking 81 cars off the road or planting 127 acres of trees.
7. If you're staying with us more than one night, please help conserve water by participating in our towel and linen reuse program. Just by rehangng your towel on the rack, our staff will know not to unnecessarily change towels or linens.

*The National Park Service thanks these concessioners for support with this and other publications.*

## Xanterra South Rim

Xanterra South Rim, L.L.C. is the primary concessioner and the sole provider of in-park lodging at the South Rim. Owned and operated by Xanterra Parks & Resorts, we have been providing quality guest service since the Fred Harvey Company opened El Tovar Hotel in 1905. Today park visitors have a choice of accommodations in seven distinctly different Grand Canyon lodging properties. Additional services include gift stores, restaurants and in-park tours.

As the nation's largest national and state park management company, we know that we play an integral part in the tourism industry and how it impacts the natural environment. This is why we are a company based upon values that reflect an environmental ethic and social conscience for the long term. We have taken the lead in this calling and have implemented comprehensive and broad-based environmental initiatives throughout all of our operations. Please join us in these efforts to reduce, reuse, and recycle during your visit to this special place. For more information call (928) 638-2631 or visit [www.grandcanyonlodges.com](http://www.grandcanyonlodges.com).



Xanterra South Rim, LLC.—We're not just close, we're there!

## DNC Parks & Resorts

DNC Parks & Resorts at Grand Canyon (DNC) operates the General Stores in the park at Desert View and Grand Canyon Village under contract with the U.S. Department of the Interior. DNC encourages its associates to develop a strong relationship with the park during their tenure and to be good stewards of its special places in which we operate. For more information please contact us at (928) 638-2262.



## Forever Resorts

Forever Resorts operates the Grand Canyon Lodge, restaurants, retail, gift and convenience stores, service station, and Grand Canyon Cookout Experience on the North Rim under contract with the U.S. Department of the Interior. Forever Resorts trains and encourages employees to foster a sense of awareness and stewardship in park visitors through an appreciation of park resources. For information on Grand Canyon North Rim Lodge, visit online at [www.GrandCanyonForever.com](http://www.GrandCanyonForever.com).



FOREVER  
RESORTS

# Lodging and Services

## Lodging

### In the Park–South Rim

For same-day reservations, call (928) 638-2631.  
For advance reservations, call (888) 297-2757  
or write:

Xanterra Parks & Resorts  
6312 South Fiddlers Green Circle, Suite 600N  
Greenwood Village, CO 80111

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

All prices are subject to change.

#### Bright Angel Lodge

On the rim. \$69–174

#### El Tovar Hotel

On the rim. \$174–426

#### Kachina Lodge

On the rim. \$170–180

#### Thunderbird Lodge

On the rim. \$170–180

#### Maswik Lodge

West end of village. \$90–170

#### Yavapai Lodge

Market Plaza. \$107–153

#### Phantom Ranch

Located at the bottom of the canyon.  
Overnight dormitory and cabin space. Advance  
reservations are required. Call for prices (see  
above) or inquire at the Transportation Desks in  
Bright Angel, Maswik, or Yavapai Lodges.

### North Rim

#### Grand Canyon Lodge

Make reservations by calling (877) 386-4383 or  
[www.foreverresorts.com](http://www.foreverresorts.com)

### Outside the Park–Tusayan, AZ

#### Best Western Grand Canyon Squire Inn

(800) 937-8376 or (928) 638-2681

#### Canyon Plaza Resort

(800) 995-2521 or (928) 638-2673

#### Grand Hotel

(888) 634-7263 or (928) 638-3333

#### Holiday Inn Express

(888) 473-2269 or (928) 638-3000

#### Red Feather Lodge

(866) 561-2425 or (928) 638-2414

## Camping

### In the Park–South Rim

Camping is permitted only in designated  
campsites in Grand Canyon National Park.

#### Mather Campground

Operated by the National Park Service. No  
hook-ups are available, but there is a dump  
station. Maximum vehicle length: 30 feet.  
Campsites are \$18.00 per night through  
November 20; \$15.00 beginning November 21.  
Some sites may be available on a first-come,  
first-served basis. Check at the campground  
entrance. Reservations available until  
November 20. For advance reservations contact  
(877) 444-6777 or visit [www.recreation.gov](http://www.recreation.gov).

#### Trailer Village

Pull-through sites with hookups are located  
next to Mather Campground. \$34.00 per site per  
night for two people; \$3.00 for each additional  
person over age 16. Campers may register at  
the entrance to Trailer Village. Reservations  
through Xanterra Parks & Resorts. For same-  
day reservations, call (928) 638-2631. See  
advance reservation contact information in  
adjacent column.

#### Desert View Campground

Located near the East Entrance, 25 miles (40 km)  
east of Grand Canyon Village. Self-registration  
is on a first-come, first-served basis. \$12.00  
per site per night. Campground closes in  
mid-October depending on the weather.

### Outside the Park

#### Camper Village

Commercial campground located one mile  
(1.6 m) south of park entrance in the town of  
Tusayan. Hookups, coin-operated showers,  
laundry, propane, dump station, and store are  
available year round. Call (928) 638-2887.  
[www.grandcanyoncampervillage.com](http://www.grandcanyoncampervillage.com)

#### Ten-X Campground

Operated by Kaibab National Forest. Located  
two miles south of Tusayan. \$10.00 per site  
per night. No hookups or showers. Group  
sites available by reservation. Information:  
(928) 638-2443. Campground closes  
September 30.

## Dining

Listed west to east along the rim.

#### Hermits Rest Snack Bar

Open daily 9:00 a.m. – 5:00 p.m.

#### Maswik Cafeteria

In Maswik Lodge at the west end of the village.  
Open daily 6:00 a.m. – 10:00 p.m.  
Maswik Pizza Pub: Noon–11:00 p.m.

#### Bright Angel Restaurant

In Bright Angel Lodge. Open daily.  
Breakfast: 6:00 a.m. – 10:45 a.m.  
Beginning November 1: 6:30 a.m. – 10:45 a.m.  
Lunch: 11:15 a.m. – 4:00 p.m.  
Dinner: 4:30–10:00 p.m.  
Lounge: 11:00 a.m. – 11:00 p.m.

#### Bright Angel Coffee House

Located in the Bright Angel Lodge.  
Open daily 5:30 a.m. – 10:00 a.m.

#### Bright Angel Fountain

Hours vary seasonally. Closes November 28.

#### The Arizona Room

On the rim in Bright Angel Lodge. Open daily.  
Reservations are not accepted.  
Lunch: 11:30 a.m. – 3:00 p.m.  
No lunch after October 31.  
Dinner: 4:30 p.m. – 10:00 p.m.

#### El Tovar Dining Room

Located on the rim. Open daily.  
Breakfast: 6:30 a.m. – 11:00 a.m.  
Lunch: 11:30 a.m. – 2:00 p.m.  
Dinner: 4:30 p.m. – 10:00 p.m.  
Beginning October 1: 5:00 p.m. – 10:00 p.m.  
Dinner reservations are required:  
(928) 638-2631 ext. 6432.  
Lounge: 11:00 a.m. – 11:00 p.m.

#### Delicatessen at Marketplace

Located in the General Store. Open daily.  
8:00 a.m. – 6:00 p.m.

#### Yavapai Cafeteria

Located at Market Plaza.  
Open daily: 6:30 a.m. – 8:00 p.m.  
Closed October 31–November 23  
Reopens November 24–27

#### Desert View Trading Post Snackbar

Open daily: 9:00 a.m. – 5:00 p.m.

## Groceries

#### Canyon Village Marketplace

The General Store is located in Market Plaza.  
September 7 – October 11  
8:00 a.m. – 9:00 p.m.  
Beginning October 12  
8:00 a.m. – 7:00 p.m.

#### Desert View Marketplace

9:00 a.m. – 5:00 p.m.  
Closed Thanksgiving Day

## Books and Gifts

Listed west to east along the rim.

**Hermits Rest** ..... 9:00 a.m. – 5:00 p.m.

**Maswik Gift Shop** .... 7:00 a.m. – 10:00 p.m.

#### Kolb Studio

Through September 30 .. 8:00 a.m. – 7:00 p.m.  
Beginning October 1..... 8:00 a.m. – 6:00 p.m.

**Lookout Studio**..... 9:00 a.m. – 5:00 p.m.

**Bright Angel** ..... 7:00 a.m. – 10:00 p.m.

**El Tovar** ..... 7:00 a.m. – 10:00 p.m.

#### Hopi House

Through October 20..... 9:00 a.m. – 6:00 p.m.  
Beginning October 21 .... 9:00 a.m. – 5:00 p.m.

#### Verkamp's Visitor Center

Through September 30 .. 8:00 a.m. – 7:00 p.m.  
Beginning October 1..... 8:00 a.m. – 6:00 p.m.

#### Yavapai Curio

Through October 20..... 8:00 a.m. – 8:00 p.m.  
Beginning October 21 .... 9:00 a.m. – 5:00 p.m.

#### Books & More

**at Grand Canyon Visitor Center**  
Through September 30 .. 8:00 a.m. – 7:00 p.m.  
Beginning October 1..... 8:00 a.m. – 6:00 p.m.

#### Yavapai Geology Museum

Through September 30 .. 8:00 a.m. – 8:00 p.m.  
October 1–31 ..... 8:00 a.m. – 7:00 p.m.  
November 1–30..... 8:00 a.m. – 6:00 p.m.

**Tusayan Museum** ..... 9:00 a.m. – 5:00 p.m.

**Desert View Visitor Center  
and Bookstore**..... 9:00 a.m. – 5:00 p.m.

#### Desert View Trading Post

Through October 20..... 9:00 a.m. – 6:00 p.m.  
Beginning October 21 .... 9:00 a.m. – 5:00 p.m.

#### Desert View Watchtower

Through October 20..... 9:00 a.m. – 6:00 p.m.  
Beginning October 21 .... 9:00 a.m. – 5:00 p.m.  
Watchtower stairs close 30 minutes before  
store closing.

# Services

## Medical

**24-Hour emergency care dial 911**  
From hotel rooms dial **9-911**

### North Country Grand Canyon Clinic

Through September 30  
Daily: 8:00 a.m. – 6:00 p.m.  
October 1 – 31

Monday – Saturday: 8:00 a.m. – 6:00 p.m.  
Beginning November 1

Monday – Friday: 8:00 a.m. – 5:00 p.m.  
(928) 638-2551

## Services

### In the Park

#### Laundry and Showers

Located near Mather Campground.  
Through September 16: 6:00 a.m. – 11:00 p.m.  
Last laundry load: 9:45 p.m.  
September 17 – October 28: 7:00 a.m. – 9:00 p.m.  
Last laundry load: 7:45 p.m.  
Beginning October 29: 8:00 a.m. – 6:00 p.m.  
Last laundry load: 4:45 p.m.

#### Chase Bank and ATM

At Market Plaza. 24-hour ATM.  
Monday – Thursday: 9:00 a.m. – 5:00 p.m.  
Friday: 9:00 a.m. – 6:00 p.m.  
Accepts travelers checks and major credit cards.  
(928) 638-2437.  
ATM also available in Maswik Lodge lobby.

#### Post Office

At Market Plaza. (928) 638-2512  
Monday – Friday: 9:00 a.m. – 4:30 p.m.  
Saturday: 11:00 a.m. – 1:00 p.m.

#### Kennels

Open daily: 7:30 a.m. – 5:00 p.m. (928) 638-0534  
For retrieval after 5:00 p.m., contact Fire and Safety: (928) 638-2631.

#### Lost and Found

For items lost or found in hotels or restaurants, call: (928) 638-2631. For all other lost items call: (928) 638-7798. Take found items to any NPS visitor center or Park Headquarters.

#### Garage Services

Located east of the train depot. Open daily 8:00 a.m. – noon and 1:00 p.m. – 5:00 p.m. Provides basic emergency repairs; tow service to Williams or Flagstaff. After hours emergency service available. (928) 638-2631

## Tours & River Trips

### Air Tours

Fixed-wing and helicopter tours originate daily from Grand Canyon Airport. A list of air tour operators is available upon request at NPS visitor centers or consult the local telephone directory.

### Bus Tours

Tours within the park to Desert View and Hermits Rest, as well as sunrise and sunset tours, are available daily. Contact any lodge transportation desk or call (928) 638-2631.

### Mule Trips

Two-day trips into the canyon depart each morning and may be available on a waiting-list basis. A three-hour ride to The Abyss overlook departs twice daily. Call (928) 638-2631 or contact the Bright Angel Lodge Transportation Desk for information. [www.grandcanyonlodges.com](http://www.grandcanyonlodges.com)

### Horse Rides

Trail rides and twilight wagon rides are available from Apache Stables at the north end of Tusayan. Rides are offered as weather permits. For information and reservations call (928) 638-2891.

### Smooth-Water Raft Trips

Half-day trips on the Colorado River from Glen Canyon Dam to Lees Ferry are provided by Colorado River Discovery. (888) 522-6644 or [www.raftthecanyon.com](http://www.raftthecanyon.com).

### Hiking and Backpacking

**Grand Canyon Field Institute (GCFI)** offers a wide variety of educational programs throughout the park. Expert instructors who share the wonder of Grand Canyon with participants of all ages and backgrounds lead these single- and multi-day classes. For more information call (866) 471-4435 or visit [www.grandcanyon.org/fieldinstitute](http://www.grandcanyon.org/fieldinstitute). GCFI is a program of the nonprofit Grand Canyon Association.

### Arizona Highway Information

511 or (888) 411-ROAD  
[www.az511.gov](http://www.az511.gov)



## Transportation

### Transportation Desks

Information about Phantom Ranch facilities, mule trips, horseback riding, air tours, one-day float trips, and motorcoach tours (including wheelchair-accessible tours) is available in the following lodge lobbies. Call (928) 638-2631, ext. 6015. Hours may change seasonally.

#### Maswik Lodge

5:00 a.m. – 6:30 p.m. until October 31  
6:00 a.m. – 6:30 p.m. beginning November 1

#### Bright Angel

5:00 a.m. – 8:00 p.m. until October 31  
6:00 a.m. – 8:00 p.m. beginning November 1

#### Yavapai Lodge

8:00 a.m. – 1:00 p.m. and 2:00 p.m. – 6:00 p.m. until October 31

### Railroad

**Grand Canyon Railway** offers service between Williams, Arizona, and Grand Canyon. Call (800) THE-TRAIN for information and reservations. [www.thetrain.com](http://www.thetrain.com)

### Taxi Service

Service is available to the Grand Canyon Airport, trailheads, and other destinations. Daily 24-hour service. (928) 638-2631, ext. 6563.

### Rim to Rim Shuttle

Daily round-trip transportation between the North Rim and South Rim is provided by **Transcanyon Shuttle**. One trip each way daily. Reservations required: (928) 638-2820. Scheduled service stops October 15; charter service available until November 15.

### Shuttle Service

**Arizona Shuttle** provides shuttle service between Flagstaff and Grand Canyon twice daily, also serving Phoenix and Tucson and other locations in northern Arizona. (877) 226-8060 or (928) 226-8060  
[www.arizonashuttle.com](http://www.arizonashuttle.com)

### Bicycle Rentals

**Bright Angel Bicycles**, located near Grand Canyon Visitor Center, offers a variety of bicycles for hourly rentals. Shuttle to Hermit Road is available. 8:00 a.m. – 6:00 p.m. daily. Closes end of November depending on weather. (928) 814-8704

## Religious Services

Religious services are offered in the park and the nearby community. Current schedules are posted at Mather Campground (near the check-in station), Shrine of the Ages, the information kiosk near the post office, the Grand Canyon Visitor Center, and Verkamp's Visitor Center.

**Church of Jesus Christ of Latter-Day Saints**  
Gary Bishop, Branch President. (928) 638-3227

#### El Cristo Rey Roman Catholic

Rev. Hugh Cleary, C.S.C. (928) 638-2390

#### Grand Canyon Assembly of God

Brian and Debbie Fulthorp, Pastors. (928) 707-2904

#### Grand Canyon Baptist Church

Rick Wiles, Pastor. (928) 638-0757

#### Grand Canyon Community Church

(Christian Ministry in the National Parks - multi-denominational)  
Jared Long, Pastor. (928) 638-2340

#### Jehovah's Witnesses (Tusayan)

Borden Miller. (928) 635-4166

#### Jewish Services and Programs

Rabbi Nina Perlmutter. (928) 777-8172

## Available in Tusayan

**IMAX Theater**. . . . . (928) 638-2468

Movie shown every hour on the half hour  
Through October 31 . . . . . 8:30 a.m. – 8:30 p.m.  
Beginning November 1 . . . 10:30 a.m. – 6:30 p.m.

#### Kaibab National Forest

Tusayan Ranger District . . . . . (928) 638-2443

#### News and Weather

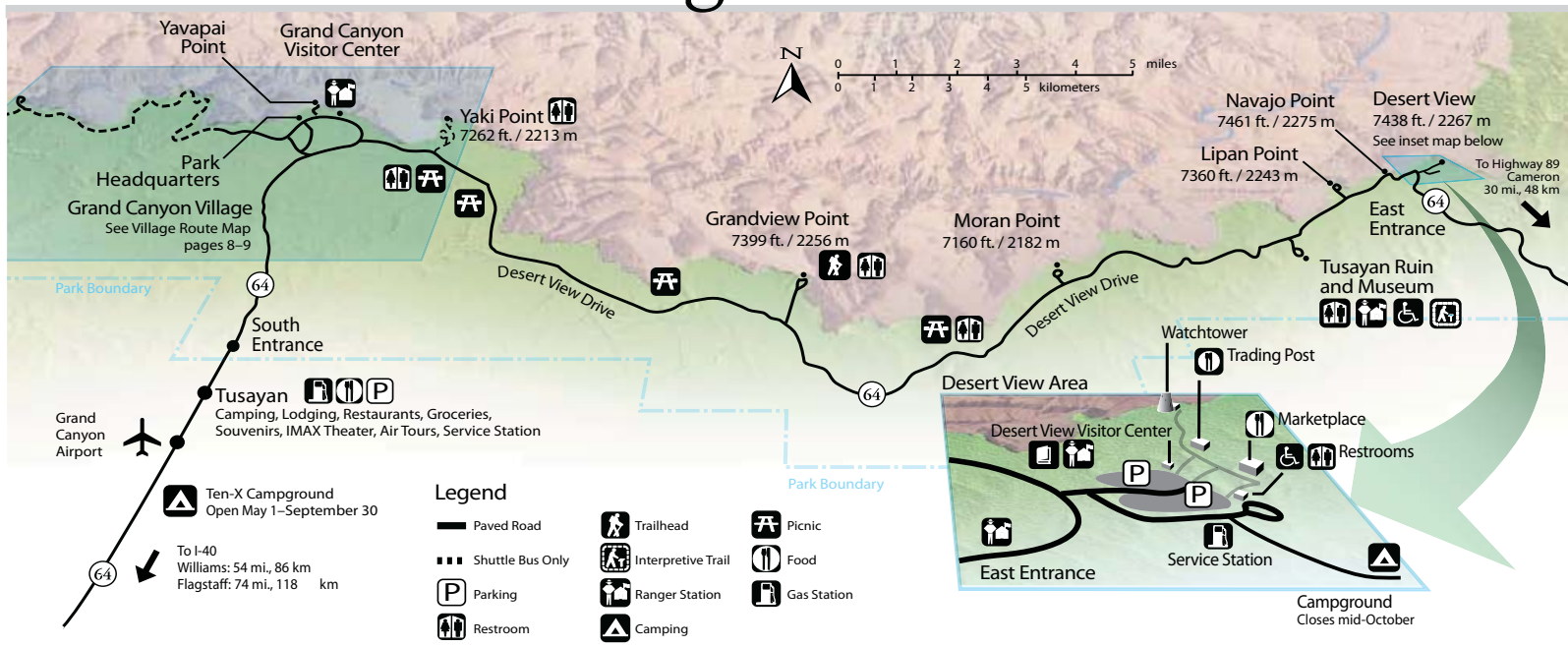
KNAU . . . . . Radio FM 90.3

## Hualapai Skywalk

The Hualapai Skywalk is on the Hualapai Indian Reservation, not in Grand Canyon National Park. The Skywalk is at the west end of Grand Canyon approximately 250 miles (400 km) from the South Rim. Stop by any NPS visitor center for a brochure with a map.

The Skywalk is a Hualapai Tribal business. For information or to make reservations: (877) 716-9378 or (702) 878-9378 or [www.destinationgrandcanyon.com](http://www.destinationgrandcanyon.com).

# South Rim including Desert View



## Desert View Highlights



While in the Desert View area stop by the newly opened Desert View Visitor Center to talk with a ranger and peruse the selection of canyon-related materials in the bookstore.

**The Watchtower** Many consider this stone-sheathed turret the most dramatic of Mary Colter's buildings. Climb the stairs to the top floor for an expansive view of the canyon, San Francisco Peaks, and Navajo Indian Reservation.

**River Views** Drive to Lipan Point to see miles of the Colorado River flowing through the canyon. This is a good viewpoint to enjoy sunrises and sunsets.

**Ancient Cultures** Stop at Tusayan Museum and Ruins to learn about other peoples, both past and present, who have called this area home. Walk around the partially excavated village and imagine what it was like to live here.

**Geology** Notice the arching rise of the Kaibab Plateau viewed across the canyon from Navajo Point. The bright red layer seen across the canyon from Moran Point is part of the Grand Canyon Supergroup rocks, exposed in only a few locations.

## Desert View Services

Chevron Service Station	9:00 a.m. – 5:00 p.m.
Closes October 27	Fuel available 24 hours with credit card all year
Desert View Visitor Center	9:00 a.m. – 5:00 p.m.
Desert View General Store	9:00 a.m. – 5:00 p.m.
Trading Post Gift Shop	Until October 20 9:00 a.m. – 6:00 p.m. Beginning October 21 9:00 a.m. – 5:00 p.m.
Watchtower Gift Shop	Until October 20 9:00 a.m. – 6:00 p.m. Beginning October 21 9:00 a.m. – 5:00 p.m.
Watchtower stairs	Close 30 minutes before gift shop
Desert View Campground	First-come, first-served; closes mid- October

**National Park Service**  
U.S. Department of the Interior

## Grand Canyon National Park

Post Office Box 129  
Grand Canyon, AZ 86023

For the latest information updates, visit the Grand Canyon National Park web site at: [www.nps.gov/grca/](http://www.nps.gov/grca/)

The National Park Service publishes *The Guide* in cooperation with the Grand Canyon Association. Printed by Arizona Daily Sun on recycled paper, using soy-based inks.



**Experience Your America**

## North Rim



The average distance across Grand Canyon "as the raven flies" is ten miles (16 km). Traveling from the South Rim to the North Rim by automobile, however, requires a five-hour drive of 215 miles (346 km).

Lodging and camping at the North Rim are available from mid-May to mid-October. Reservations are strongly recommended. Additional facilities are available in the surrounding Kaibab National Forest, the Kaibab Lodge area, and Jacob Lake. The road to the North Rim closes with the first heavy snowfall in November or early December.

A separate edition of *The Guide* is published for the North Rim. Ask at any NPS visitor center for a copy.