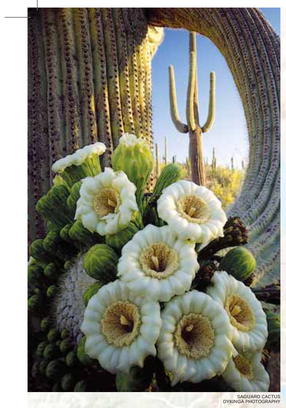
Sonora_MapSide_MASTER 1/18/07 12:06 PM Page 1



SAGUARO CACTUS
©YSINGA PHOTOGRAPHY

Desert Ecology

For a swatch of land known mainly for the road-runner and the saguaro, you'd be astonished by the Sonoran range of landforms and climate, animals and plants. Binational conservation efforts are underway to link biosphere reserves in Sonora with adjoining protected lands in Arizona. Organ pipe cactus and bighorn sheep would certainly approve.

Jesús García, Arizona-Sonora Desert Museum ethnobiologist:
"Most plant and animal migrations travel south-to-north along river corridors, such as the Yaqui and Sonora Rivers. As the javelina works its way north, for example, it excretes seeds consumed farther south, and new plants take root. When coyotes travel, they know their way around—where to hide, find water, and where to sleep. Birds migrate along the sky island archipelago, mountaintops above the desert floor with their own communities and ecosystems."

Peter Gierlach, native plant grower, Chiricahua Mountains
"The kangaroo rat is the ultimate desert rat. It doesn't drink water. When rain falls, it hides. It gets its moisture from the seeds and grass it gathers. It lives near earthen mounds and takes dust baths. It's the size of a golf ball and has an eight-inch tail.
"Over in the Sulphur Springs Valley, we have really hammered old agricultural land, but it has some of the best birding in North America."

On the Border

The line between Arizona and Sonora affects all that takes place north and south of it. It creates a remarkable hybrid culture that permeates both sides. Language, food, laws, and outlaws—all take a bow at the frontier, then move on. Despite its international complexities, the border can be invigorating, as when Douglas and Agua Prieta run a horse race with steeds on each side of the line (below).

Adriano González, spokesman, coffee cooperative, Agua Prieta, Son.
"I was born here and studied international business and learned English; it's opened a lot of doors for me. I work with a coffee cooperative in Chiapas that ships beans to us here in Agua Prieta, where they're roasted, then sold in the States. It's a good model for keeping people employed in Mexico. My grandfather came here from Guadalajara; he never thought of going farther north."

Keoki Skinner, owner, El Mitote, Douglas, Ariz.:
"I run the El Mitote juice stand in Douglas but I live in Agua Prieta; so I cross over early every morning to avoid any build-up later at Customs. Sometimes I take the juice truck to my daughters' soccer games."

In 2007, a dual-state traveler's advisory system goes live, one benefit of a half-century of trans-border cooperation by the Arizona-Mexico Commission.

BORDER PATROL AGENTS PATROL ON HORSEBACK ALONG THE INTERNATIONAL BOUNDARY FENCE IN NOGALES, ARIZ.
©JOE RAEDLE, GETTY IMAGES

Geotraveler tips:

How to help the Sonoran region retain its character
Patronize businesses that support the community and its conservation and preservation efforts. Seek out local products, foods, services, and shops. When you support the people who support the place, they'll usually reward you with a richer, more memorable trip.

Visiting Tribal Lands
On an Indian reservation, you are a guest where people live and work. Taking photos and video is a sensitive issue, so ask permission first. Each tribe operates under its own unique governmental structure. Contact them in advance to obtain rules for visitors. Most have websites.

Thinking of moving here?
If you plan to relocate, skip the look-alike subdivisions that consume tracts of desert, and seek instead housing that suits the surroundings, whether a unique old house in a historic neighborhood, an endangered ranch house, or an eco-friendly place that blends into the desert.

Ranches
Long set aside over grazing, environmentalists and ranchers have been forging new alliances. Ranchers are adopting more eco-friendly practices as ranches themselves become an endangered species, threatened by encroaching development. When staying at a ranch, choose one that's conservation-oriented, and patronize restaurants that buy food from local ranches and farms.

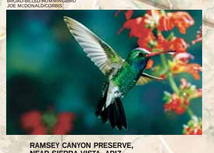
Golf
A conventional golf course can use as much water as a U.S. town of 8,000—not good where water is scarce. Give preference to Audubon-certified courses or others that use "xeriscaping"—desert plantings suited to the climate and wildlife. Makes for a more interesting game, too.

Saguaros
Icon and signature species of the Sonoran Desert, a saguaro cactus takes scores of years to reach maturity, even to grow its first arm. Saguaros are protected. Report any signs of recent poaching or vandalism.

Visiting Archaeological Sites
Petroglyphs and other Indian archaeological sites are fragile and many are sacred. Look but don't touch, as oils from fingertips and constant rubbing erode the markings and paintings. Be mindful of sacred sites, accessing only by invitation and respecting the site with quiet reflection.

HEARD MUSEUM, PHOENIX, ARIZ.
Museum celebrates traditional and contemporary art and cultures of Southwestern Native Americans. If you're lucky, catch the annual hoop dancing contest or the basketry and native foods festival.

TOWN OF ÁLAMOS
Walk along cobblestone streets, through stately archways of white colonial mansions and into the well-kept Plaza de Armas, and see why Álamos is dubbed a "Magical Town."

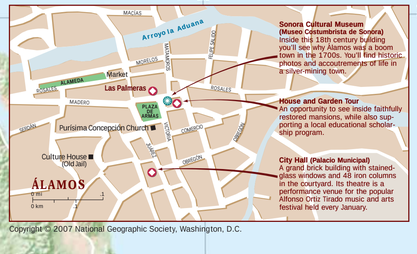


RAMSEY CANYON PRESERVE, NEAR SIERRA VISTA, ARIZ.
Excellent wildlife viewing on guided nature walks in this Nature Conservancy Preserve at an ecological crossroads of mountains and desert. Fourteen species of hummingbirds and the rare Ramsey Canyon leopard live within the cool, spring-fed canyon.

HACIENDA EL LABRADOR, URES, SON.
Stay overnight in the restored 1860s hacienda and enjoy horseback riding, birdwatching, and swimming in the natural whirlpool.

NACAPULE CANYON, SAN CARLOS
A cool desert oasis with unusual rock formations and unique plants, including the tropical nacapule tree.

SEA OF CORTEZ PEARLS
While black pearls have always grown naturally in the Sea of Cortez, this facility produces cultured pearls. Tour it and see for yourself.



Copyright © 2007 National Geographic Society, Washington, D.C.

Arizona - Sonora Desert Region

NATIONAL GEOGRAPHIC

GEOTOURISM MAPGUIDE

geo-tour-ism *(n):* Tourism that sustains or enhances the geographical character of a place—its environment, culture, aesthetics, heritage, and the well-being of its residents.

TWO STATES, TWO COUNTRIES, ONE HERITAGE

"Yes, but it's a dry heat." OK, sure, it's hot here in summer—and startlingly cold under a quarter moon on a clear winter night. The Sonoran Desert has always tested us, yet we've fashioned cities and towns and learned how to live in it and entertain ourselves in it. Geotourism involves travel that sustains the geographical distinctiveness, and we have that aplenty. My first six months here I lived in a small adobe rental, and every morning I'd wake up and look out my bedroom window at a saguaro next to a wooden fence. I was convinced I lived on a movie set. Now, more than 35 years later, that same sensation takes hold, but it quickly yields to a fuller appreciation of the land, of how we've tamed it and how it's tamed us.

Camping out west of Nogales I first encountered the international frontier as a twisted barbed wire fence on the ground, and I gleefully hopped back and forth over it from one nation to the other. Charmed by this indication of the region's friendly anarchy, that evening I babbled to my friends over *carne asada*—grilled beef—that this land was really one country, with culture and language, for the most part, ignoring the arbitrary line that runs through it.

It all makes for a rich mix, sweetened by a most inviting and comfortable climate. To bring you the information on this map, scores of communities in two countries have sent in hundreds of recommendations—about food, wildlife, ranching, music, history—places and features that provoke special pride for us who live here.

Explore this remarkable region and it will sustain and reward you.

—Tom Miller, author, Tucson

Mining & Ranching

Arizona and Sonora grew up together, mining copper and herding cattle. Today copper still comes from huge open pits on the edge of Cananea, Son. and elsewhere. You'll see earth-moving equipment bigger than many houses and third-generation miners punching in for their shifts. Learn about mining operations at New Cornelia Mine in Ajo or the mine tour in Morenci. As for cattle ranches, the 21st century presents challenges brought on by endangered species, grazing-policy concerns, rising land prices, and competing recreational uses on public lands.

Historian Humberto de Hoyos, Cananea, Son.:
"The Mexican revolution began here in 1906 when the miners struck for higher pay and better conditions. Copper had taken hold a decade earlier. The boom established the progressive style of architecture and urban design you see in Cananea today. Trees in the plaza and furnishings in the bank are from that era. The Chinese Quarter still has mining tunnels where residents hid from authorities back then. When people first come to Cananea, they wonder if they're still in Mexico."

Mac Donaldson, Empire Ranch, Sonoita, Ariz.:
"People have blamed ranchers for poor land conditions, but today we have new methods of breeding, vaccination, and feeding our cattle. We've got 72,000 acres here at more than 4,800 feet—a good altitude for the watershed and grasslands. We've established a foundation to protect the Empire's historical sites and give the public some history of the land." Visit in September for their annual Roundup Open House and Western Art Sale.

Experience ranching at La Inmaculada in Sonora and in the present-day ranch communities along the Sonoran River corridor.

FESTIVALS
Music, Crafts, Heritage & Nature

1. Wings Over Willcox Birding and Nature Festival Willcox, Ariz. *(second weekend in January)* Offers birding trips, natural history tours, and seminars **www.wingsoverwillcox.com**

2. Alfonso Ortiz Tirado Festival Álamos, Son. *(end of January)* Ten days of music performances, exhibits of paintings, Mexican folk art, and workshops **www.festivalortiztirado.com**

3. Cowboy Poetry and Music Gathering Sierra Vista, Ariz. *(first weekend in February)* Features more than 50 poets and musicians **www.cowbopoets.com**

4. Fiddlesticks' Battle Celebration Cabórca, Son. *(April 6th)* Parades, fireworks, local crafts, and concerts **www.sonoratravel.com/destinations/caborca/festivities**

5. Holy Week in Bacadéhuachi Bacadéhuachi, Son. *(From Holy Thursday, Good Friday through Easter Sunday)* Reenactment of the passion of Christ through the streets, Last Supper, traditional dances, and horse races **phone: 01 (634) 34 6 80 85 / 34 6 80 55**

6. Tucson International Mariachi Conference Tucson, Ariz. *(April)* Mariachi and Baile Folklórico festival with workshops for all ages **www.tucsonmariachi.org**

7. Pitic Festival Hermosillo, Son. *(last week in May)* Presentation of national and international artists, art exposition, theater performances, cowboy artists, and dances **www.hermosillo.gob.mx, www.visitasonora.com, www.gotosonora.com/hermosillo-son-mx.htm**

8. San Juan Bautista Festival Navojoa, Son. *(starts four weeks before June 24th)* A celebration that dates from the arrival of Jesuit missionaries in 1614, this festival ends on June 24th with a procession, food, games, and native dances **email: presidencianav@hotmail.com / contralorianavojoa@hotmail.com**

9. Fiesta de San Francisco Magdalena, Son. *(October 4th)* Largest religious pilgrimage in the Sonoran Desert **www.parentseyes.arizona.edu/missions/magfiesta.html**

10. Festival Luna de Montaña Huachinera, Son. *(first week in October)* Celebration highlighting arts, crafts, and music of the region **www.isc.gob.mx/contenido/festivales/ii-festival-luna-de-montana.shtml**

11. Patagonia Fall Festival: A Celebration of Music and Art Patagonia, Ariz. *(second weekend in October)* Features musical performances, over 140 arts and craft exhibitors, and local specialty food **www.patagoniaaz.com/save_the_date.html**

12. Anza Days Tubac, Ariz. *(third weekend in October)* Living history of the Indian, Mexican, and Spanish colonial periods through military demonstrations, traditional dancing and music, and children's activities **www.tubacaz.com/calendar/events.asp**

13. Orme Dam Victory Days Fort McDowell Yavapai Nation, Fountain Hills, Ariz. *(third weekend in November)* Competition powwow, cultural songs and dances, all-Indian rodeo, parade, sports' tournaments, concert, and food **www.fmcdowell.org**

14. La Fiesta de Tumacácori Tumacácori N.H.P., Tumacacori, Ariz. *(first full weekend in December)* Recognizes the past and present cultures of the region through traditional dance, music, crafts, and food **www.nps.gov/tuma/planyourvisit/fiesta.htm**

NATIONAL GEOGRAPHIC

National Geographic and the people of Arizona and Sonora present this Geotourism MapGuide to the Sonoran Desert region.

Funded by the Arizona and Sonora Offices of Tourism and the U.S Department of the Interior-Bureau of Land Management. Prepared by National Geographic Maps and the National Geographic Center for Sustainable Destinations in collaboration with the Sonoran Institute and the Geotourism Councils of Arizona and Sonora. Text by Tom Miller; map notes by Abigail Rome.

Visit www.sonoraturismo.gob.mx/geoturismo-en-sonora.htm and www.arizonaguide.com to learn more about points of interest in the Sonoran Desert region.

SOUTHERNMOST SONORA

MESA DEL CAMPANERO, SAN CARLOS
©JOHN CANALIZO/BRIDGE IMAGE COLLECTION

PLAZA DE ARMAS, ÁLAMOS, SON.
©CARLOS JUAN ARELLANO-MENDOZA

BAJA CALIFORNIA, HOMES IN THE CONSTRUCTION LOS CERRALVO, MX
©CARLOS JUAN ARELLANO-MENDOZA

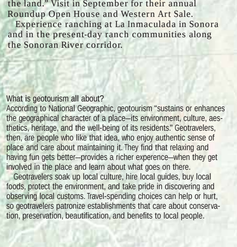
HACIENDA EL LABRADOR, URES, SON.
©CARLOS JUAN ARELLANO-MENDOZA

PLAZA DE ARMAS, ÁLAMOS, SON.
©CARLOS JUAN ARELLANO-MENDOZA

BAJA CALIFORNIA, HOMES IN THE CONSTRUCTION LOS CERRALVO, MX
©CARLOS JUAN ARELLANO-MENDOZA

HACIENDA EL LABRADOR, URES, SON.
©CARLOS JUAN ARELLANO-MENDOZA

MAC DONALDSON, EMPIRE RANCH, SONOITA, ARIZ.
©JOE RAEDLE, GETTY IMAGES



NORTHERN JAGUAR RESERVE
©JOHN CANALIZO/BRIDGE IMAGE COLLECTION

NORTHERN JAGUAR RESERVE
©JOHN CANALIZO/BRIDGE IMAGE COLLECTION

NORTHERN JAGUAR RESERVE
©JOHN CANALIZO/BRIDGE IMAGE COLLECTION

NORTHERN JAGUAR RESERVE
©JOHN CANALIZO/BRIDGE IMAGE COLLECTION