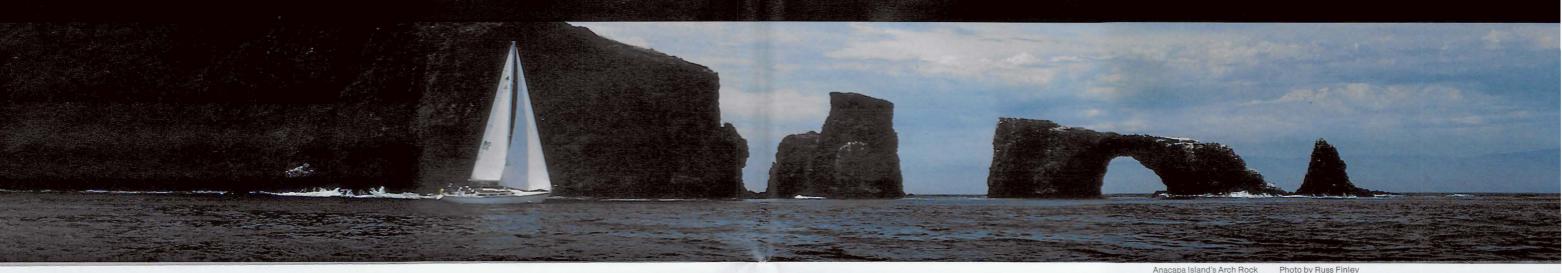
Channel Islands

Channel Islands National Park California

National Park Service U.S. Department of the Interior



The Channel Islands, an island chain lying just off California's southern coast, appear quite close on clear days. Five of the eight islands and their surrounding six nautical miles of ocean, with its kelp forests, comprise Channel Islands National Park and National Marine Sanctuary. In 1980, Congress designated Anacapa, Santa Cruz, Santa Rosa, San Miguel, and Santa Barbara Islands and 50,500 hectares (125,000 acres) of submerged lands as a national park because they possess outstanding and unique natural and cultural resources. The National Marine Sanctuary was established later that year. The park and the sanctuary provide habitat for marine life ranging from microscopic plankton to the largest creature on Earth-the blue whale.

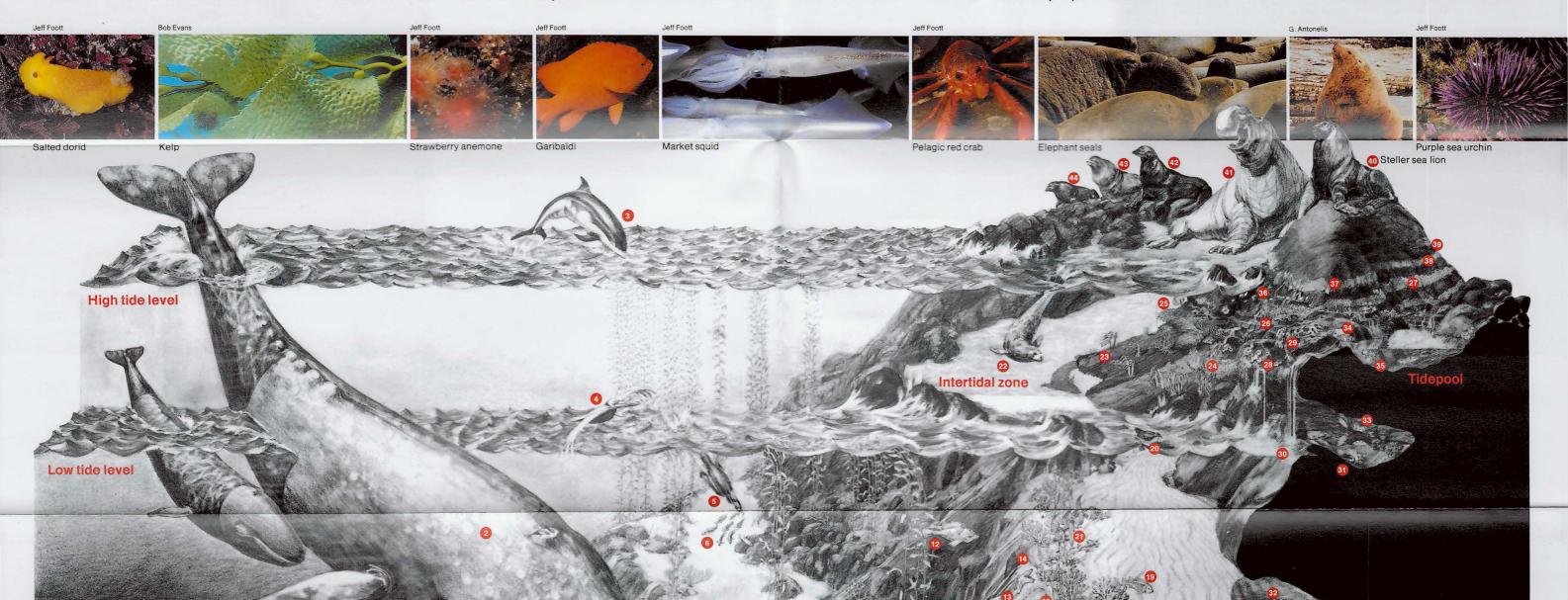
Seafaring Indians plied the Santa Barbara Channel in swift, seaworthy canoes called tomols. The Chumash, or "island people," had villages on the larger islands and traded with the mainland Indians. In 1542, explorer

Juan Rodriguez Cabrillo entered the Santa Barbara Channel, Cabrillo, believed to be a Portuguese navigator in service to Spain, was the first European to land on the islands. While on his northbound odyssey of discovery Cabrillo wintered on an island he called San Lucas (San Miguel or possibly Santa Rosa Island). He died as a result of a fall suffered on that island and is believed to have been buried on one of the Channel Islands, but his grave has never been found. Subsequent explorers included Sebastian Vizcaino, Gaspar de Portola, and English Captain George Vancouver, who in 1793 fixed the present names of the islands on nautical charts. Beginning in the late 1700s, and on into the 1800s, Russian, British, and American fur traders searched the islands' coves and shorelines for sea otter. Because its fur was highly valued, the otter was hunted almost to extinction. Hunters then concentrated on taking seals and sea lions for their fur and oil. Several of these species faced extinction as well. In the early 1800s the Chumash Indians were removed

to the mainland missions. Hunters, settlers, and ranchers soon came to the islands. By the mid-1800s, except for the fishermen who operated from cove camps, ranching was the economic mainstay. The Santa Cruz Island ranch produced sheep, cattle, honey, olives, and some of the finest early California wines. In the late 1800s the ranch on Santa Rosa Island was a major supplier of sheep to Santa Barbara and Los Angeles County markets. Anacapa, San Miguel, and Santa Barbara Islands also were heavily grazed or cultivated. In the early 1900s the U.S. Lighthouse Service-later the U.S. Coast Guard-began its stay on Anacapa Island. The U.S. Navy assumed control of San Miguel Island just before World War II. The islands served an important role in southern California's coastal defenses. The military's presence on San Miguel, Santa Rosa, and the other Channel Islands is evident even today.

A series of Federal and landowner actions have helped preserve these

nationally significant island treasures. Federal efforts began in 1938, when President Franklin D. Roosevelt proclaimed Santa Barbara and Anacapa Islands as Channel Islands National Monument, In 1976 a U.S. Navy and National Park Service agreement allowed supervised visitation of San Miguel Island. In 1978 a conservation partnership between the Nature Conservancy, a national non-profit conservation organization. and the Santa Cruz Island Company provided for continued protection, research, and educational use of most of privately-owned Santa Cruz. Finally, in 1980, Congress designated the four northern islands and Santa Barbara Island and the waters for one nautical mile around each as our 40th national park. Today, Channel Islands National Park is part of the International Man and the Biosphere program to conserve genetic diversity and an environmental baseline for research and monitoring throughout the world.





Gray whale and calf ifornia brown pelican Blue rockfish

Gorgonian (soft) coral Bat star 15 Silvery hydroid 16 Smooth red spon 17 Nutting's sponge very hydroid looth red sponge 10 Ochre sta 11 Kelp (Macrocystis) 12 Copper or kelp rockfish 13 Leather star 20 Xantus murrelet

Sea palms 24 Surf grass Sea lettuci ockweed

28 Goose barnacles Sea palm rchins Tidepool sculpin piny lobster 33 Abalone 34 Hermit crab

42 California sea lion Aggregated anemones 43 Northern fur seal 44 Guadalupe fur seal 38 Blue-green algae 39 Lichen 40 Steller sea lion 41 Northern elephant seal

Which is more important-the land or the ocean? For many plants and animals of the Channel Islands, life is not possible without both land and sea. Pelicans fish for anchovies from the ocean but nest on the dry bluffs of West Anacapa. Low-growing sand verbena needs the sandy soil of San Miguel Island to grow, but to thrive it also needs salt from the ocean air. Giant kelp fastens its rootlike hold-fasts on the shallow rocks of islands' nearshore reefs, yet this seaweed also needs the nutrients from the deep ocean.

Isolation from the mainland and the mingling of warm and cold water currents in the Santa Barbara Channel help form the Channel Islands' unique character. The plants and animals are similar to those on the mainland, but thousands of years of isolation in unique island environments have resulted in size, shape, or color variations among some plants and animals. All of the larger islands are home for the island fox, a close relative of the mainland's gray fox. But because it evolved in isolation, the island fox is no larger than a house cat. These foxes prey upon deer mice that are slightly larger than their mainland relatives. Both creatures are well adapted to the harsh island environment.

oteness from the mainland has buffered the islands from the rapid changes wrought by modern man. While most mainland tidepools are practically devoid of life because of heavy human use, abalone, sea urchins, sea anemones and limpets thrive in the islands' intertidal areas. White-plumed sea anemones still cover underwater rocks at San Miguel, and vivid

purple hydrocorals filter water for food near Santa Cruz Island. Though used by fishermen and sport divers, and subject to mainland water pollutants, the kelp forests of the Channel Islands harbor great numbers of plants and animals.

During the last Ice Age the northern Channel Islands were part of one vast island geologists call Santarosae. Sea level was then much lower, and large areas of today's sea bed were dry. The northern islands were then linked together, though probably not connected to the mainland. Later, when the great continental ice sheets melted, the islands were separated.

During the Pleistocene era, a dwarf species of mammoth roamed Santarosae, and pine and cypress for-

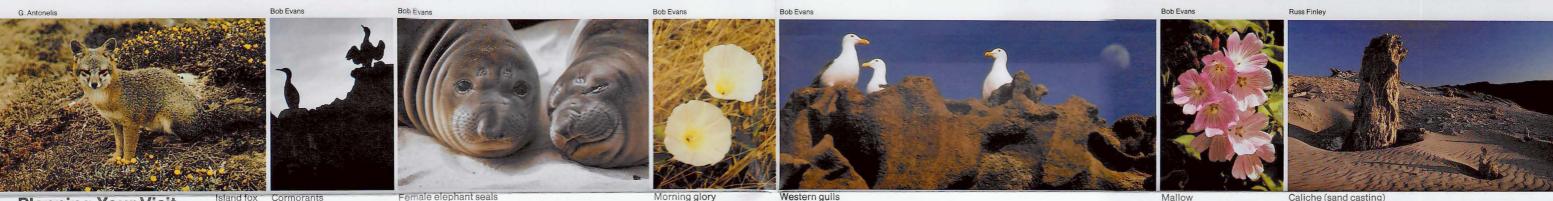
ests stood on several islands. Today, the fossilized remains of dwarf mammoths on San Miguel and Santa Rosa, and the forests of brittle sand castings, known as caliche (pronounced kah-lee-chee), that are found on San Miguel remind us that the islands were very different long ago. Some plants and animals have developed special adaptations over time to cope with the isolated environment-others remain unchanged. The giant coreopsis is found on all five park islands and on the coastal mainland. Its more common name, tree sunflower, suggests its size and trunk-like stem. Its bright vellow blossoms are sometimes visible from the mainland during the winter and spring.

The introduction of non-native plants and animals to an island ecosystem can devastate native species. One such exotic is a tenacious South African species of iceplant which found its way to Santa Barbara Island before 1900. Highly salt tolerant, it thrives in arid soil by capturing moisture from sea breezes. It subsequently leaches salt into the soil, producing concentrations of salt that few native plants can tolerate. Today, the iceplant spreads its thick mats over much of the island. Introduced livestock, food animals, and pets have similar impacts on island environments. Escalating feral sheep, hog, cat, and rabbit populations led to damage to-and sometimes elimination of-native plants and animals. The National Park Service seeks to restore these native populations where possible.

29 30 31

32

All plants, animals, rocks, and other natural, archeological, and historic features on the islands are protected and may not be disturbed, destroyed or taken Even dead vegetation may not be gathered or burned. Please keep in mind that others will follow you, so "take only memories, leave only footprints" when visiting the islands. Be careful with fire. Because of the high risk of fire that could destroy plant communities, no open fires are permitted on the islands. Discharge of firearms and fireworks is not allowed in the park or within the one-nautical-mile seaward boundary of ocean within the State ecological reserves. Please take home any trash that you brought in. Report accidents or unusual incidents imm ately to the National Park Service or U.S. Coast Guard.



Planning Your Visit

Commercial Boat Service

The park concessioner offers regular trips throughout the year to Anacapa, Santa Barbara, Santa Rosa, Santa Cruz, and San Miguel Islands. For information, rates, and reservations, write or call Island Packers, Inc., 1867 Spinnaker Drive, Ventura, CA 93001, (805) 642-1393. It is wise to make reservations well in advance throughout the year.

Using Your Boat

If you plan to take your own boat to the islands, refer to National Ocean Survey Charts 18720, 18729, and 18756. The Santa Barbara Channel is subject to sudden changes in sea and wind conditions, especially in afternoons. Be familiar with local conditions. Good cruising guides may be purchased at the park visitor center.

Off Santa Barbara Island, anchoring is usually confined to the east side because of prevailing winds and waves. Anchorages on Anacapa Island include East Fish Camp and, in good weather, Frenchy's Cove. Anchoring at either island can be hazardous. Have adequate ground tackle aboard. To go ashore on the islands requires a skiff, raft, or small boat. No special permits are necessary to land on Anacapa or Santa Barbara.

However, to visit Santa Rosa or San Miguel Islands you need a permit from park headquarters. You may anchor on the north side of San Miguel at Cuyler Harbor, or on the south side at Tyler Bight. Cuyler Harbor is usually a safe anchorage-under normal weather conditions-and is the only landing area on San Miguel. Sea conditions around San Miguel Island are often rough; only experienced boaters with sturdy vessels should attempt the trip. Depending on sea conditions around Santa Rosa Island, you can anchor in Bechers Bay or Johnsons Lee. For details on landing, hiking, or camping on park islands, contact park headquarters before your trip because special restrictions apply. Landing on privately owned Santa Cruz is by permit only. (See information on access to Santa Cruz on the map side of this folder.) Permits and regulations protect the islands' delicate resources, ensure your safety, and safeguard private landowner's rights.

For Your Safety

A visit to the islands is always an adventure. The seas are unforgiving, and even getting onto the islands is an uncertainty. When boating around the islands be familiar with the appropriate charts. Watch the weather. Always have enough flotation devices aboard for you and each passen-

ger and always use them when landing on the islands. Beware of surge! If you need emergency assistance contact the U.S. Coast Guard on Channel 16 of your marine band radio. National Park Service patrol vessels and island rangers also monitor this channel. When diving, be certified, be in good condition, know the area, be aware of changing current and wind conditions, and never dive alone. When hiking stay away from cliffs and stay on the established trails. While on East Anacapa Island, stay away from the lighthouse-its high intensity foghorn could permanently damage your hearing.

Aircraft Notice

To protect nesting seabirds and to avoid disturbing wildlife, National Marine Sanctuary regulations and State law prohibit aircraft from flying at altitudes less than 300 meters (1,000 feet) within the one-nautical-mile seaward boundary of the islands.

Protecting the Marine Resources

The waters for one nautical mile around Anacapa, San Miguel, and Santa Barbara Islands are California State Ecological Reserves. State fish and game regulations apply. Fishing requires a California fishing license. Take

only those plants and animals specifically permitted under California fish and game laws. In some areas in the ecological reserves, such as Anacapa's landing cove area, marine life is totally protected; nothing may be taken. In other reserve areas commercial and sport fishing and diving for invertebrates are allowed. Ecological reserve regulations and a map of closed areas are available from park headquarters. Marine mammals such as whales, seals, and sea lions and endangered species such as the brown pelican are protected by law and may not be harassed or disturbed. Island rangers are deputized fish and game wardens. They can provide more information on fish, game, and marine resource protection regulations. There are accessible tidepools on Anacapa, Santa Barbara, and San Miguel Islands. Do not collect anything; collecting is illegal. Leave animals and shells for others to enjoy, too. If you pick up an animal, replace it where you found it. That spot is that animal's home territory. Walk carefully-rocks can be slippery. Discharge of substances and removal of cultural resources are prohibited within the 6-nautical-mile sanctuary boundary.

☆GPO: 1990-262-100/00229 Re

Channel Islands



Channel Islands is a unit of the National Park n, which c of more than 350 parks

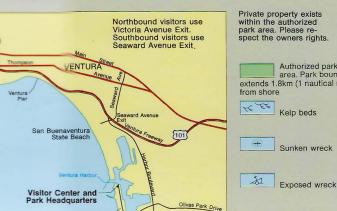


visit at the mainland visi-tor center located at the end of Spinnaker Drive in Ventura. See map at right and address below. Here a 25-minute film introduces the park. You can also view photo dis-plays, exhibits, Chumash Indian artifacts, a simu-lated caliche ghost for-est, an indoor tidepool, and a native plants display. You may purchase publications, maps, and nautical charts at the bookstore. Arrangements for boat service to the islands may be made nearby

Visitor Center. Start your

Information. For more infore attempting to land at the designated landings. Ladders, railings, and formation, write or call: Superintendent Channel Islands National Park. stairs may be wet; wear 1901 Spinnaker Drive, Ventura, CA 93001. (805) 644-8262. suitable nonskid foot wear. Watch your footing in tidepools. Stay on designated trails, cliffs may be undercut; obey all Safety.When boating and before departure, check signs. Weather conditions prevailing and forecasted weather and sea condichange rapidly; dress in layers. Supplies are not available on islands. tions. Know your vessel's limitations and monitor

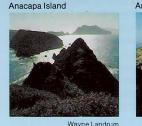
The islands comprise a diverse natural area. Durmarine band radio. Anchoring at the islands may be difficult because ing seabird breeding seaof small harbors and slop-ing sea floor terrain. Use son nesting birds are ag-gressive. Screeching and diving birds indicate you are near breeding activ-ity; stay away from nests. ample anchor chain and scope. Observe the surf and surge conditions be-





Suitability of anchorages varies depending on the seasons and weather. Consult boating almanacs and nautical charts.

Anacapa Island



The closest island to the mainland, Anacapa lies 18 kilometers (11 miles) southwest of Oxnard, and 22 kilometers (14 miles) from Ventura. Almost 8 kilometers (5 miles) long, its total land area is but 290 hectares (about 1 square mile). Anacapa is composed of three small islets inaccessible from each other except by boat. For much of the year, Anacapa looks brown and lifeless. With winter rains, its plants emerge from summer's



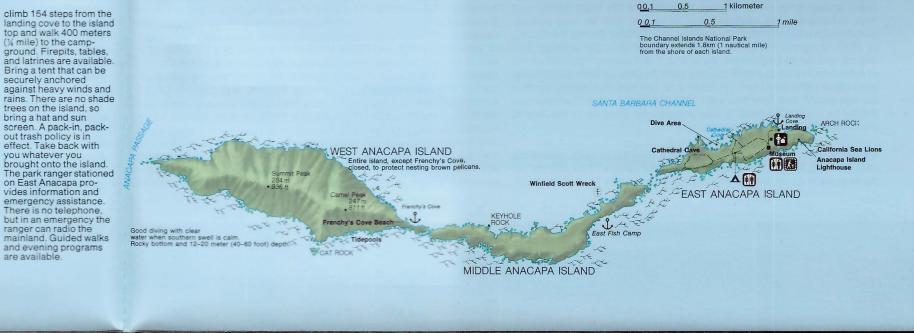
dormancy and turn green. Sea mammals are often seen around Ana-Anacapa is a Research Natural Area closed to the public. Except at Frenchy's Cove, no landcapa's shores. January through March is whale ings are permitted on West Anacapa without written permission from watch season and migrating whales can be seen in the waters near the park superintendent. Transportation to Ana-capa is provided by the Anacapa. Western gulls cormorants, black oyster catchers, and endanpark concessioner (see Planning Your Visit). Most visitors go to East Ana-capa Island. **Picnicking** is gered brown pelicans may be seen year round. West Anacapa's slopes are the primary West Coast nesting site for the brown pelican. To protect the pelican rookery, West allowed, but please carry all trash off the island. There are latrines but no freshwater. Near the

Please stay on trails and obey closure signs-for your safety and to protect fragile island resources. When the fog horn is on, don't visit the lighthouse Severe hearing damage may result. Beaches on East Anacapa are not ac cessible, but on calm summer days you may swim in the landing cove. At West Anacapa's Frenchy's Cove there is a beach and a fine snor-keling area. Picnicking is also permitted. The area is noted for its tidepools on the island's south side. The tidepools at Frenchy's are protected— nothing may be taken. Many fine SCUBA and skin diving areas around Anacapa reveal the is-

introduces features and

moods of East Anacapa

and varied marine life. Dismall visitor center a selfguiding nature trail (2.4 kilometers/1.5 miles long) vers may photograph the undersea life and explore caves, coves, and shipwrecks. The steamer Win-field Scott grounded and sank off Middle Anacapa in 1853. Remains of the wreck can still be seen. Please take only pictures -submerged cultural and historical resources are also protected by law Souvenirs may not be taken! Fishing requires a California fishing license (see Protecting the Marine Resources on the front side). Camping on Anacapa is restricted to the campground on East Anacapa. Reservations are required (no fee), and you must obtain a permit in advance from park headquarters. This allows you to camp up to 14 days. Campers must bring their own food, fuel, sheland water. Pack light At the island you must land's well known beauty



Santa Cruz Island



Largest and most diverse of the islands within the park boundary, Santa Cruz Island is about 39 kilometers (24 miles) long. Its land area is about 249 square kilometers (96 square miles). The central valley's north slope is a rugged ridge; the south slope is an older and more weathfreshwater support a re-markable array of flora ered ridge. At 730 meters (2,400 feet), the highest of all Channel Islands and fauna-more than 600 mountains is found here Santa Cruz Island's 124plant species, 140 land bird species, and a smal kilometer (77-mile) distinctive group of other

land animals. Of the 85 plant species endemic to the Channel Islands, nine occur only on Santa Cruz. The Santa Cruz Island ironwood, the island oak, the island fox, scrub jay, and other distinctive plant and animal species have adapted to the is-land's unique environ-ment. To biologists, Santa Cruz is specially signifi-cant for its diversity of habitat, greater than any other of the Channel varied coastline has steep cliffs, gigantic sea caves, and coves and sandy beaches. The shoreline cliffs, beache Islands offshore rocks, and tide-Chumash Indians inhabpools provide important breeding habitat for colo ited Santa Cruz Island for more than 6,000 years. When Juan Rodriquez nies of nesting sea birds and diverse plants and animals. The varied to-Cabrillo arrived in 1542, as many as 2,000 pography and ample Chumash Indians probably lived there. Ranch-ing began on the island in 1839, with a Mexican land

owned. In 1988 the Nature Conservancy acquired the western nine-tenths of the island, managed as the Santa Cruz Island Preserve. You may not land on Santa Cruz without a permit, unless you are on a boat trip authorized by the landowner. For a permit to land on the island west of the property line between Chinese Harbor and Sandstone Point, contact the Santa Cruz Island Preserve, P.O. Box 23259, Santa Barbara, CA 93121, or phone (805) 962-9111. A fee is charged for this landing permit and restric listed on the appli nit and restrictions must be adhered to. The Nature Conservancy con-ducts day trips to the isgrant to Andres Castillero. Since that time the entire

land for both organized

groups and the general

sociated with early man's presence in North Amer-

public. For information, contact the Nature Conservancy's Santa Cruz Island Project office, 213 Stearns Wharf, Santa Barbara, CA 93101, (805) 962-9111. Free slide, lecture, and film programs are avail-able on the mainland for interested groups. To arrange a program or a film loan, contact the project office. Opportunities for overnight stays with varied packaged recrea-tional opportunities and transportation by aircraft are available from Chanare available from Chan-nel Island Adventures, 233 Durley Avenue, Camarillo, CA 93010, (805) 987-1301. Day trips are also available

Permits to land on the island east of the property line between Chinese Harbor and Sandstor Point are currently not being issued by property



Santa Rosa Island



Quenada Canyon

island has been privately

examples of Santa Rosa's animals include the native plant communities

se tend to be

manders. Other terrestrial

5 kilometers Carrington Point 0 - CKe



The second largest park island is Santa Rosa. Nearly 24 kilometers (15 miles) long and 16 kilo-meters (10 miles) wide, its 22,250 hectares (53,000 acres) exhibit remarkable contracte. Olife on the contrasts. Cliffs on the northeastern shore rival those of Santa Cruz Island. High mountains with deeply cut canyons give way to gentle rolling hills and flat marine ter-races. Vast grasslands blanket about \$5 pacent habitats found on any of the Channel Islands. The entire island is surrounded blanket about 85 percent of the island, yet colum-nar volcanic formations,

Dana Seaga Paul Co by expanses of kelp beds. Consequently, its surrounding waters serve as an invaluable nursery for the cost life that forde extensive fossil beds and highly colored hill slopes are visible. Rocky terraces on the west end provide superb habitat for intertidal organisms, in cluding astounding con-centrations of black aba-lone. Harbor seals haul out and broad on the for the sea life that feeds larger marine mamma and the sea birds that breed along the coastal shores and offshore out and breed on the rocks of all the Channe island's sandy beaches. On the eastern tip of the Islands. Beneath Santa Rosa's non-native grass island, a unique coasta lands are the remains of a rich cultural heritage. marsh is among the most extensive freshwater More than 180 largely undisturbed archeological

lages and historic-era camps of early explorers and fur hunters are evi-dent. Some historians think Santa Rosa may be Cabrillo's final resting place.

In the 1840s and 1850s Santa Rosa was a cattle rancheria. After the cattle industry of old Spanish California collapsed in the 1860s, sheep were brought to Santa Rosa and soon became its economic mainstay. Sheep grazing continued into the early 20th century. but when the island was sold to Vail & Vickers Company in 1902, the sheep were removed and cattle reintroduced hough the impacts of introduced grains, insects, sites have been mapped. These include several assheep, pigs, deer, elk, and cattle were severe



The endemic spotted skunk-found only on Santa Rosa and Santa Cruz Islands-is only rarely observed. The National Park Service acquired Santa Rosa Island in 1986. It is open to public access. La permits are required. Contact Channel Islands National Park Visitor Center, (805) 644-8262, for current information.



San Miguel Island

Cabrillo's monument



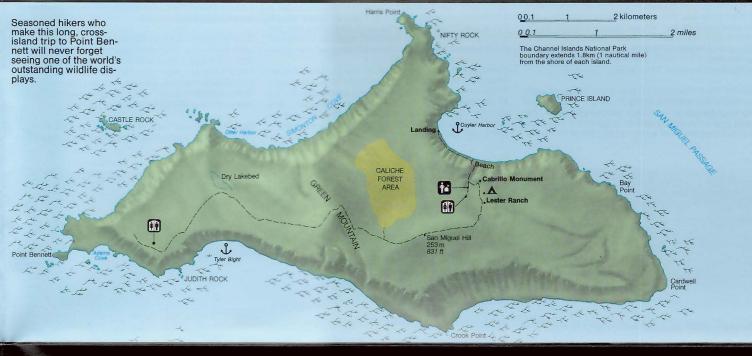
Wind and weather sweep across the North Pacific to batter the shores of the westernmost of the north-ern islands. This creates a harsh and profoundly beautifulenvironment.Sa Miguel is about 13 kilometers (8 miles) long and 6 kilometers (4 miles) wide. It is primarily a pla-teau 120-150 meters (400-500 feet) in elevation, but two rounded hills emerge from its beauti-ful, and windswept landdiscovery. scape

standing natural and cul-tural features. Some of the Channel Islands' best ex-amples of caliche are Nidever brought sheep, cattle, and horses to San Miguel. An adobe he built may be the earliest strucfound here. Enormous numbers and a variety o ture on any of the Chan-nel Islands. Its remains are barely visible today. In seals and sea lions "haul out" and breed on its iso-lated shores. The Channel 1930 Herbert and Elizabeth Lester became the Islands' largest land mammal, the island fox, can be seen on San Miguel. San Miguel's fraisland's caretakers. The family left the island in 1942 after the suicide of Herbert Lester, who had gile treasures include more than 500 relatively become known as the "King of San Miguel." From the mid-1940s to the mid-1950s the island undisturbed archeologi cal sites, some dating was used as a bombing back thousands of years. Juan Rodriquez Cabrillo, discoverer of California, is believed to have winrange. Staying on the trail is particularly important on this island because live ordnance is still occasiontered and died at Cuyler Harbor in 1543. Although ally uncovered by shifting his grave has never been found, a monument over-looking Cuyler Harbor was erected in 1937 sands. A permit to land or camp on San Miguel must be obtained in advance of to commemorate his northern voyage of your visit. Contact park headquarters, (805) 644-

In the 1850s Capt. George

line. Camping on San Miguel will test your abil-ity to adapt to the island's sometimes harsh sur-roundings. Strong winds, 8262, for permits and information. Landing is permitted only at Cuyler Harbor. Daytime use of the beach does not require a permit. If you go beyond the beach area at rain, and fog are con-stants. Bring a strong tent, sleeping bag, and warm waterproof clothes. You will also need water, stove, first aid kit, and toi-Cuvier Harbor, however, you must have a landing permit. Landing elsewhere is prohibited. Campsites on San Miguel must be reserved in advance at let paper. A pit toilet facil-ity is provided, and wind Park headquarters; no fees. The primitive camp-ground has four campshelters are installed at each campsite. All gar-bage must be carried off ites: three individual when you leave. sites, 1 to 6 people, and one group site, 7 to 12 people. Stays are limited For half-day visits to the island, the caliche forest is a popular destination. to two nights and a maxi-mum of 30 campers. Camping dates are sub-ject to the availability of Once you hike from the beach to the island's top, it is about 5.5-kilometers the San Miguel Island ranger. From 7 p.m. to 7 (3.5-miles) from the range station to the caliche fora.m. campers are reest. Caliche is a mineral stricted to the camp-ground and the Lester Ranch Historic Area, dessandcasting. As with all park resources, it may not be collected. Take all the ignated by the old fencepictures you want. The

island has been greatly altered by extensive sheep grazing, but you can still see an array of distinctive native plant species. Coreopsis and other flowering plants produce beautiful displays in spring If you can spend more time on the island, try to make the 24-kilometer (15-mile) round-trip hike oss the island to Point Bennett. With binoculars you may see thousands of breeding seals and sea lions (pinnipeds) from an overlook about 1.5 kilometers (1 mile) from the beach. Depending on the time of the year, the Cali-fornia sea lion, Steller sea lion, northern elephant seal, harbor seal, northern fur coal and the Guada fur seal, and the Guadalupe fur seal may be seen at Point Bennett. (All ex-cept the Guadalupe fur seal breed on the island.)



Santa Barbara Island