

break down as natural forces

the Sea-Of Valleys

Haleakala Natio

Park was established on the island of Maui to

preserve the outstanding

features of Haleakala

Crater. Later additions

to the park gave protec-

tion to the unique and

fragile ecosystems and

Gulch, and the coast:

And so, stretching

Haleakala eastward to

the southeast coast, the

special areas-Haleakala

Crater near the summit

and the Kipahulu coastal area. No roads connect

the two, though each

can be reached by road

from Kahului. In fact,

to help keep the park as

undisturbed as possible, so that the visitor may

find bere a natural envi-

ronment, roads lead only

to the threshold of this

inspiring wilderness.

and step into the con-

kala National Park.

Cross this threshold

trasting beauty of Halea-

Learn here of the earth

and of those mysteries

beneath and above its

silent volcanic rocks, o

cascading streams and

dazzling silver plants

and flashing scarlet birds.

quiet pools, and of

surface—of cool and

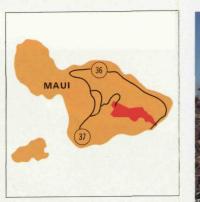
park joins these two

from the summit of Mt.

cenic pools along 'Ohe'o

rare biotic species of Kipahulu Valley, the

and Cascade



reduce them to minute particles which are swept away by wind, heavy rain, and intermittent streams.

A fiery birth beneath the sea Modern geology indicates that the Hawaiian Islands are situated near the middle of the emerged from the sea. Lava, "Pacific Plate," one of a dozen thin, rigid structures covering eventually joined the two by an our planet like the cracked shell of an egg. Though adjoining each other, these plates are in Haleakala, the larger eastern volconstant slow motion, the Pacific cano, reached its greatest height, Plate moving northwestward several centimeters per year. the ocean—some 9,100 meters Scattered around the world are many weak areas in the earth's the ocean floor. crust where magma slowly wells upward to the surface as a 'plume." Here volcanoes and volcanic islands, such as Maui, are born.

This constant northwestward movement of the Pacific Plate over a local volcanic "hot spot," or plume, has produced a series of islands one after another in assembly line fashion. The result is a chain of volcanic islands stretching from the island of Hawai'i along a southeastnorthwest line for 4.050 kilometers (2,500 miles) toward Japan.

Mountains above the sea Maui, one of the younger islands in this chain, began as two separate volcanoes on the ocean floor; time and again, eon after eon, they erupted, and flows. The volcanic rocks slowly thin new sheets of lava spread upon the old, building and

building, until the volcano heads

wind-blown ash, and alluvium

isthmus or valley, forming Maui,

3,600 meters (12,000 feet) above

(30,000 feet) from its base on

Waters upon the mountain

For a time, volcanic activity

ceased, and erosion dominated

The great mountain was high

enough to trap the moisture-

laden northeast tradewinds. Rain

fell and streams began to cut

Two such streams eroding their

way headward created large

amphitheater-like depressions

channels down its slopes.

near the summit.

"The Valley Isle." Finally,

Ultimately these two valleys met, creating a long erosional "crater." At the same time a series of ice age submergences and emergences of the shoreline occurred; the final submergence formed the four islands of Lanai, Molokai, Kahoolawe, and Maui.

Lava down the valleys

When volcanic activity re-



Enrich your visit to the park by

unusual and contrasting colors

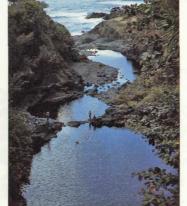
becoming aware of the many

here. Note the pink and gray

cinder cones dotting the crater

ferns growing near the summit

floor (far left) and the vivid green



along Halemauu Trail (left). Not is the red 'i'iwi (above, top), of the 'Ohe'o Pools (above) bathes these fern-like

HAWAII MORE STABLE MANTLE

activity occurred within the crater. This stillness in Maui is attributed by modern geology to the constant northwestward movement of the Pacific Plate. As the oldest islands on the northwest end of the chain have moved farther away from the plume—the source of new lava they have ceased to grow; the ravages of wind and rain and time have thus been able to reduce them to sandbars and

are still taking place in the

earth's crust, but at present, no

visible in the crater nor at any

Maui. Perhaps Haleakala could

Though Maui is no longer

other place on the island of

erupt again; we just don't

volcanic activity of any form is

atolls.

Maui has shifted a few kilometers from the plume's influence, and Haleakala, too, is destined to become extinct. Though dormant now, about 1790, which is quite recent in geologic time, two minor flows at lower elevations along the southwest rift zone of Haleakala reached the sea and altered the southwest coastline of Maui. Time and extreme isolation Today, earthquake records indicate that internal adjustments

ment of Hawai'i's unique native life. Isolated from the remainder of its kind and living in a strange environment, a small breeding population is especially subject to evolutionary development. In some instances, changes have been so pronounced that it is difficult, if not impossible, to trace ancestries to continental

growing, the youngest island in the chain, Hawai'i, is enlarging And as plate drift continues, it is even probable that in the distant future, a new volcanic island will appear to the southeast of Hawai'i, the Big Island.

> these islands through man's intentional or accidental aid.

The Hawaiian Islands, thouhas greatly upset the natural sands of kilometers from a conbalance here. Wild pigs, initially tinental land mass, support a brought by early Hawaiians, root today through the wet areas complex system of plants and animals. More than 90 percent of the park. Goats, introduced of the native species are found by Europeans, browse through only on these islands. What out the crater. These two exotics are the most serious threat to events took place to create this assemblage of life so severely the native plant and animal populations. But other introduced species inhabit the park A tiny seed caught among a such as the predatory mongoose

released in sugar cane fields to

control rats and mice (also intro

continue to threaten the natural

relationship which would have

evolved between organisms and

of interference by modern man.

animal control program aimed

at perpetuating the values for

birdlife, and many species are

plover commonly seen from

found nowhere else. The golden

September to May is famous for

its migratory flights to and from

Alaska. You may also see the

nene which are among those

birds native only to the

'apapane, 'i'iwi, 'amakihi, and

Hawaiian Islands. The 'i'iwi is

was established.

which Haleakala National Park

Thus, the Park Service has

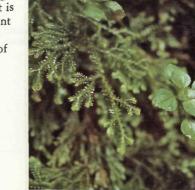
duced). All of these exotics

LIFE STORY

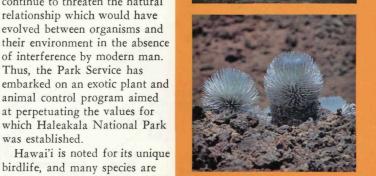
bird's feathers, fern spores borne aloft by strong winds, and insects cast ashore with floating vegetation are means by which life can cross an ocean. For every one that successfully survived the trip, thousands, perhaps millions, failed. But time was not a critical factor, and thus over millions of years several hundred of the hardier life forms established populations on the new islands.

restricted in range?

were essential for the develop-



Strangely enough, the silversword dies after blooming only



In contrast to the red and

yellow, gray and black lava ash

and cinder cones of Haleakala

Crater are the lush greenness

and abundant waters of the

once. After growing for some 5 to 20 years, this spectacular plant with its many dagger-like silvery leaves (bottom left), develops a cluster of 100 to 500 yellow and reddish-purple flower heads (top left and cover). The flower stalk, which begins to develop in May or June, reaches a height of about 1 to 2.5 meters (3 to 8 feet) in July or August. Each flower produces hundreds of seeds, and as the seeds develop, the remainder of the plant slowly dies. By late autumn, only a dry, decaying skeleton remains. The silversword, called ahinahina or "gray-gray" by the Hawaiians,

is a member of the sunflower

family. It probably descended

Trail within the crater.

KIPAHULU

from ancestors whose seed was

carried by air currents across the Pacific from the Americas. You can see silverswords most easily along the park road at the Kalahuku Overlook's Silversword Enclosure. The more venturecan be spectacular. some visitors will find fine groups in various stages of growth on the Silversword Loop

surrounds the pools. Ginger and ti form an understory in forests Haleakala Crater is a 3-hour round trip drive from Kahului

WHEN TO VISIT

Weather near the summit via Hawaii 37, 377, and 378. varies considerably; summers are generally dry and moderately District) of the park is at the warm, but you should come east end of Maui between Hana prepared for occasional cold, and Kipahulu. It can be reached windy, damp weather. Winters by driving from central Maui, a tend to be cold, wet, foggy, and distance of about 97 kilometers windy. Generally in the spring (60 miles)—137 to 145 kiloand fall there is a mixture of all meters (85 to 90 miles) from kinds of weather. Call the park Kihei, Lahaina, or Kaanapaliat 572-7749 for current weather on Hawaii 36, an extremely poo conditions before beginning your road on the north (wet) side of

trip to the park. Conditions for viewing scenery change during the day. At sunrise the light is poor, but the crater is usually free of clouds to midmorning and again in late afternoon and evening. Photographic lighting is usually best in the afternoon. Cloudy conditions often prevail during midday, but frequently improve for short periods, permitting at least partial views of the crater. Evening visits to the crater rim

Weather along the Kipahulu coast is subtropical. Light showers can occur any day.

HOW TO REACH THE PARK

Haleakala National Park extends from the 3.055-meter (10.023-foot) summit of Mt. Haleakala down the southeast flank to the Kipahulu coast near Hana. These two sections of the park are not directly connected by road, but each can be reached by automobile from Kahului, as follows:

the island. Driving time is about three to four hours each way. An extension of this road. Hawaii 31, goes around the south (dry) side of the island. It is only partially paved and can be hazardous or closed during periods of stormy weather. Mos car rental agencies, prohibit the use of their vehicles on this road Facilities at Oheo, erroneously

The Oheo section (Kipahulu

known as Seven Pools or Seven Sacred Pools, are primitive. Neither drinking water nor modern restrooms are available. Park Service personnel are usually available near Oheo Bridge between 7:30 a.m. and 4 p.m.

There are two state parks and

numerous scenic points along the highway to Hana. Some of these can be reached within one or two hours' driving time, making a good rest stop or final destination for those not wanting to make the whole drive. Consider driving only part of the distance since some people are disappointed upon completing the long, exhausting, and arduous drive only to discover that the natural qual ities at Oheo are similar to other scenic vistas along the way.

SERVICES AND FACILITIES

stores, or service stations within

Service Station 29 km (18 mi)

Same as above

Distance from

('Obe'o Gulch)

Kipahulu:

There are no overnight motel the park, but these facilities can accommodations, food services. be reached by car in about 30 to 45 minutes:

Distance from park entrance: (Haleakala Crater)

Restaurant & Lodge 19 km (12 mi) on Hawaii 377—Kula

on Hawaii 37—Pukalani

on Hawaii 31-Hana

16 km (10 mi)

Stillness within the volcano Several hundred years have plants (right). passed since the last volcanic KAUAI

PACIFIC PLATE MOVES NORTHWESTWARD

An artist's concept of the formation of the Hawaiian

sumed near the summit, lava poured down the stream valleys, nearly filling them. More recently, cinders, ash, volcanic bombs, and spatter were blown from the numerous young vents in the "crater" forming multicolored symmetrical cones as high as 180 meters (600 feet). Thus this water-carved basin

east corner of the park, near

resemble a true volcanic crater. OAHU

so easy to spot among the leaves whose long curving bill reaches deep for nectar. At the far south-Kipahulu, the bright blue waters sparkle in the sunshine, and spray from Waimoku Falls constantly

became partially filled with lava and cinder cones, and it came to

On the other hand, all mammals-except for a small brown bat and monk seal-arrived on Being unnatural, their presence

one of the most beautiful of all Kipahulu section of the park. Hawaiian birds, with a bright Here the visitor is greeted by a scarlet body, black wings and chain of usually placid spartail, and inch-long curved bill. kling pools, some large, some The 'apapane is also scarlet, but small, and each connected by a has a white belly and black legs waterfall or short cascade. But and bill. The bright green and 'Ohe'o, the stream joining the yellow 'amakihi is known for the pools, has many moods, and at speed at which it searches for times becomes a thundering tornectar and insects. However, rent of white water burying most of the birds you will see these quiet pools as it churns along park roads-pheasants, and plunges headlong toward chukars, skylarks, mockingthe ocean. The upper rain forest birds—are introduced forms. above the pools receives up to 635 centimeters (250 inches) of

These, too, have taken their toll of native birdlife—as the carriers of bird diseases and competitors for territory and food.

of kukui, mango, guava, and bamboo, while beach naupaka, false kamani, and pandanus abound along the rugged coastal cliffs. Pictographs, painted by long-forgotten artists, and farm plots once flourishing with cultivated taro

and sweet potatoes, remind us of an age when the ali'i-Hawaiian chiefs-ruled this

In the higher elevations, a vast native koa and 'ohi'a rain forest thrives, just as it has for thousands of years, still relatively undisturbed by the influences of man. It is here that the endangered Maui nukupu'u, Maui parrotbill, and other native birds

this ecosystem will help preserve

some of this rare birdlife.

can and do occur here. A pastoral scene of rolling grasslands and forested valleys

rainfall a year and flash floods still survive in a delicately balanced environment. Protection of



Like a slender, white veil, Waimoku Falls tumbles down from high above the forest.

For Your Safety

Drive Carefully. Park roads were designed for slow-moving vehicles. Please stop at overlooks; don't try to see everything from behind the wheel. Roads are often narrow: pull over and stop when buses approach on narrow portions of road. Proceed slowly in wide vehicles.

Watch Your Children. You cannot brotect a child who is beyond your protective reach and warning voice.

Dress Properly for Altitude and Activity Weather is unpredictable, and at high elevations it can be cold Report all accidents

Hikers, Don't Travel Alone. A companion may save your life in an emergency. side of the trail when meeting borses.

to park officials.

emanu Trail for about 1.6 kilometers (1 mile) from the high-

Backpackers hike down into the

crater on Halemauu Trail for a

few days of camping.

Where to Find Information

Park headquarters is 1.5 kilo

meters (1 mile) from the en-

trance to the park. Here park

personnel furnish general infor-

mation, permits, and publica-

miles) from the park entrance,

view of the crater, there are ex-

hibits explaining the geology,

archeology, and ecology of the

park as well as the wilderness

protection programs. Periodi-

cally during the day, a park

ranger is on duty to answer

terpretive talks.

specific questions and to give in-

Overlooks with orientation

panels and exhibits are located

at Leleiwi, Kalahaku, and Puu

Ulaula along the park road be-

tween park headquarters and

versword plant can be seen at

Kalahaku, and if cloud condi-

tions are right, the "Specter of

Many opportunities for walk-

ing and hiking await you in the

crater area—and they range from

short self-guiding walks to over-

night hikes of several days. Here

are some of the possibilities.

Short walks (self-guiding)

For views of Keanae Valley

and Koolau Gap, take the Hal-

the Brocken" can be seen at

How to Enjoy the Park

Leleiwi.

the summit. The rare sil-

is near the summit of Mt. Halea-

Haleakala visitor center,

about 17.5 kilometers (11

kala. Besides a magnificent

way to the crater rim. Walk along Hosmer Grove Nature Trail, where for 0.4 kilometer (1/4 mile) with the aid of a brochure you can learn of

the interplay between native

and exotic plants and animals. Hike down Sliding Sands Trail, but be careful not to travel too far. The return climb can be exhausting at this alti-

Climb to the top of White Hill, about 0.4 kilometer (1/4 mile) from the visitor center.

Camping and picnicking

Hosmer Grove Campground has tables, fireplaces, a cooking shelter with barbecue grills, drinking water, and chemical toilets. Camping here is limited to 25 persons; organized groups are limited to 15 persons.

One-day hiking trips through the crater

Down Halemann Trail to Holua Cabin and return, a 13kilometer (8-mile), ½-day trip.

Down Sliding Sands Trail and return via Halemauu Trail. This is a 19-kilometer (12-mile), 8-hour trip recommended for good hikers only.

Ranger-guided walks and hikes

Crater rim walks are conducted during the summer months. These vary in length from short 1/2-hour to 2-hour walks covering about 3 kilometers (2 miles). Check at park headquarters for current schedules.

Concessionaire-guided trips through the crater

Horseback and hiking concessionaires sponsor their own trips through the crater—on a oneday or overnight basis. Write to Superintendent at the address shown at right.

OVERNIGHT CAMPING IN HALEAKALA CRATER BACK COUNTRY ACTIVITIES IN THE HALEAKALA CRATER AREA Hikers Take Note:

during the same day.

Visitors should bring

comfortable, durable

and suntan lotion.

biking shoes, canteen,

light raincoat, sun hat,

The crater is an area Camping in the crater, which tribute to the natural cycle of where natural forces is by permit only and restricted predominate. Be preto cabins and campgrounds, is pared for unpredictable limited to 2 nights at any one changes in weather. location and 3 nights maxi-The crater can be very mum per month. bot and sunny, or very cold and rainy-often

• Do not take pets into the back The Haleakala back country country; there are several is a fragile wilderness area acendangered species that would cessible by trail only, and campbe disturbed. ers and hikers can disrupt the There are two crater cambbalance of nature here by caregrounds-one near Holua cabin less use. Early Hawaiians estaband the other near Paliku cabin. lished "kapus" or taboos to con-These are primitive campsites trol undesirable activities. Please with only pit toilets and drink-

preserve the wilderness by ing water. Campers should have observing these kapus: equipment appropriate for possible cold, wet weather, and · Do not walk off the trails; doing so can cause erosion. must bring sleeping bag, tent,

like to find it.

• Do not remove volcanic rocks, and cooking stove with fuel plants, or any object. (because of the prohibition • Do not build wood fires, living against open fires). Obtain a and dead plant material concamping permit at park head-

nutrients. Leave them in place. • Pack out all trash. Leave the sons per campground. area as natural as you would Three crater cabins are main-

SCIENTIFIC RESEARCH RESERVE

CLOSED TO ENTRY

firewood, cookstove, and eating and cooking utensils. Reservations. To reserve cabins, write to the park superintendant at least 90 days in advance of your trip. Include your

quarters or from a park ranger. Camping is limited to 25 per-

tained by the National Park Service for visitor use on an advance reservation basis only. Each cabin is allocated to one party as a unit, with a capacity of 12 people per night; at least one member of the group must be 18 years of age or older.

> Equipment, Each cabin has bunks, limited water and

first and alternate choices of date and cabin preferred. The The Legend of Maui

Hina, mother of the demigod Maui, had trouble drying her bark cloth because the day went to the great mountain that the sun passed

Swimmers Take Note:

Never swim during

bigh water. If you

notice the water level

rising, GET OUT FAST.

waters. Some bave

Check before diving

merged ledges near the

or jumping. In some

places there are sub-

in minutes.

drowned.

pool's edge.

less restrictive your choice, the better your chance of confirmation. Reservations limited to 3 nights per month, with no more than 2 consecutive nights at any one cabin. A fee is charged.

Please observe the capacity limits for cabins and campgrounds. These rationing procedures have been put into effect after careful assessment of visitor preferences and physical tolerance limits of the sites to protect the park's resources.

The nene, or native Hawaiian

goose, is the State bird.

over each day and, as the sun's rays crept over the mountain, snared them and held them fast with his ropes. "Give me my life," bleaded the sun. I will give you your life," said Maui, "if you

slowly across the sky." And to this day, the sun across the beavens; and the great mountain is known as Haleakala (Ha-lay-ah-ka-lah), the House of the Sun.



IN THE KIPAHULU AREA

Where to Find Information

tact park personnel, on duty year up the right side of around, in the Kipahulu coastal Oheo Gulch. How to Enjoy the Park Walks and hikes of a differ-

This stream can become a raging torrent Gulch, and hiking and camping here can be a rewarding experi-Be careful on wet ence. Here are some of the rocks; they are slipbery. things you can see and do: Several visitors bave slipped in during high

Short walks (self-guiding) Makahiku Falls can be reached from the central parking area by following the pasture trail

leading up the left side of Oheo Gulch for 0.8 kilometer (0.5 mile) to the overlook. The Waimoku Falls Trail continues on for another 2.4 kilometers (1.5 miles) from the

Makahiku Falls overlook up the pasture trail and through a bamboo forest to the base of this scenic waterfall. Do NOT ATTEMPT THIS HIKE WHEN STREAMS ARE SWOLLEN.

Hawaiian Planting Area, a recreated historical Hawaiian

farm, is 0.8 kilometer (0.5 Call park headquarters or con-mile) from the highway bridge

Haleakala

National Park

Ranger-guided walks

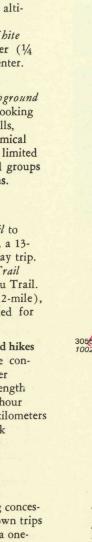
A variety of walks and hikes are provided during the summer ent nature are found along Oheo months. Check with the Hana office or the Kipahulu rangers for current activities.

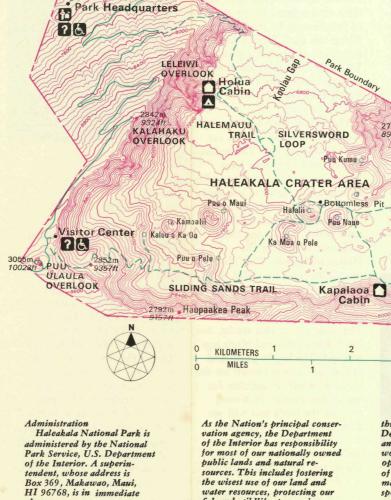
Camping and Picnicking

Please camp only in the designated camping area. Oheo Campground, near the ocean, is more primitive than the crater campgrounds. There are a few tables and grills, chemical toilets, but NO DRINKING WATER. A permit is not required here. but there is a 3-night limit per month. Pets are allowed on a leash. Check with ranger for picnicking sites. Please leave the area as you would like to find it.

Swimming in the several pools along Oheo Gulch is a popular pastime though the water is usually quite cool.

National Park Service U.S. DEPARTMENT OF THE INTERIOR GPO:1991-281-951/20029 Reprint 1990





fish and wildlife, preserving the environmental and cultural values of our national parks and

for the enjoyment of life

through outdoor recreation. The Department assesses our energy and mineral resources and ment also has a major re-Territories under U.S. historical blaces, and broviding administration.

works to assure that their develobment is in the hest interests of all our people. The Departsponsibility for American Indian reservation communities and for people who live in Island

Information ?

6.5 km (4 mi) To Coastal Hwy

21 km (13 mi) To Kipahulu Area

TRAIL

Ranger Station Shelter Cabin Cinder Cones • • • • • • • Hiking Trail • • • • - - - -

KIPAHULU WAIMOKII Scientific Research AREA TRAIL Makahiku Hawaijan Planting Area

Palikea 678m

Dirt Road