MAUI
1980s-1990s
GEORGE H. BALAZS
FILE

HALOA POINT

house with RED TILE ROOF

ACTIVITY: Scuba

WHEN: Year-round, best in Winter.

DEPTH: 50 feet maximum

SKILL REQUIRED: Beginner to moderate

TRANSPORTATION: Car.

DIRECTIONS TO SITE: Going toward Makena, go 4/10 of a mile past Polo Beach. Look for a little side road off to the right. Go in all the way and park. Follow the trail down on your right to a pebble rock beach. This is the entry spot.

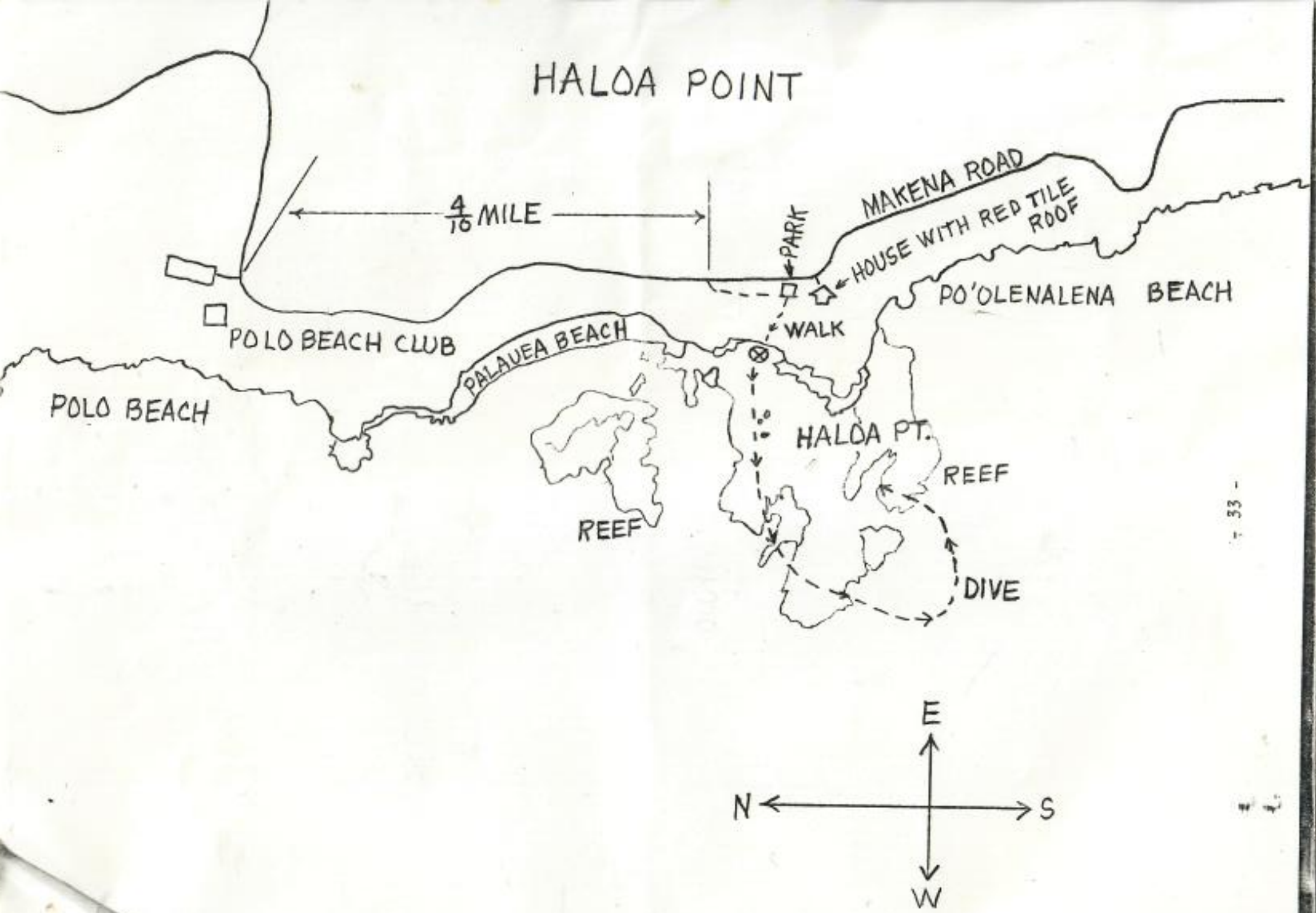
WHAT TO EXPECT: A moderately large reef, lots of reef fish, and almost always a few turtles. Good relief at the outer reef.

WHERE TO DIVE: Go straight out a short ways, then angle off on a 45 degree angle to the left. You'll have to cross some sand bottom to get to the outer reef.

FACILITIES: None.

COMMENTS: Easy entry if the surf is small. No wet suit is necessary.

HALOA POINT


4/10 MILE
MAKENA ROAD
PARK
HOUSE WITH RED TILE ROOF
PO'OLENALENA BEACH
WALK
POLO BEACH CLUB
PALAUEA BEACH
POLO BEACH
HALOA PT.
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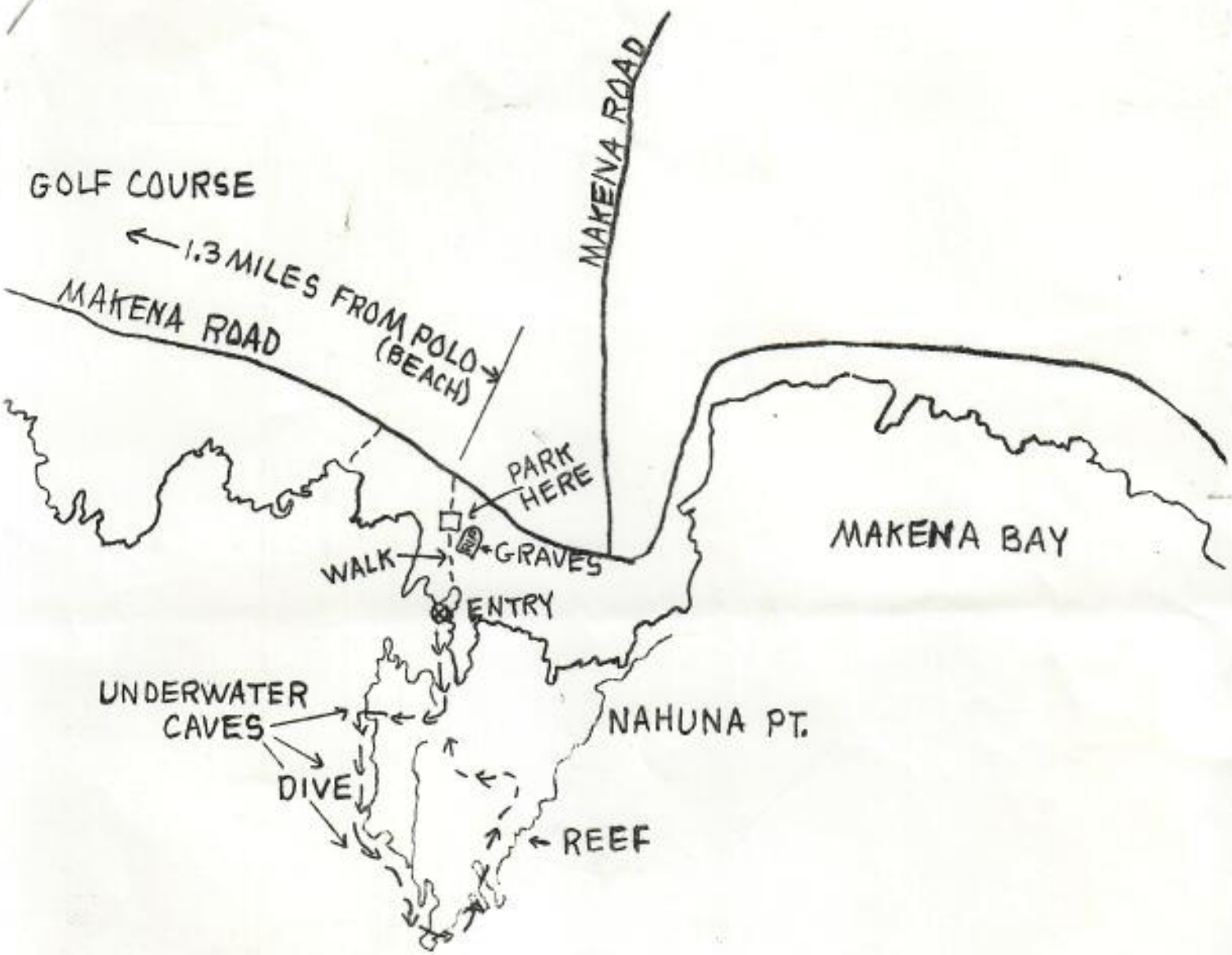
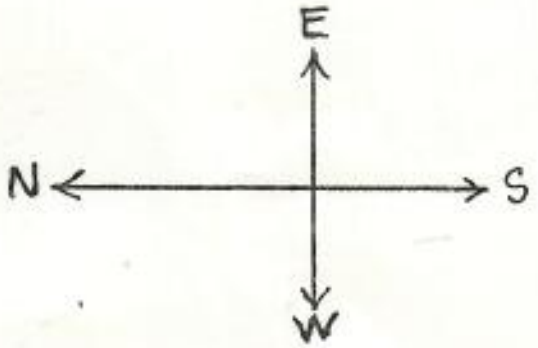
THE FIVE GRAVES





THE FIVE GRAVES
(Five Caves)

ACTIVITY:	Scuba mainly, but you can snorkel here too if you like. You'll need tanks to get down to the caves, however.
WHEN:	Year-round, but best in winter.
DEPTH:	40 to 45 feet
SKILL REQUIRED:	Moderate divers and snorkelers.
TRANSPORTATION:	Car.
DIRECTIONS TO SITE:	1 and 3/10 miles past Polo Beach turn in to your right and park at the cemetary.
WHAT TO EXPECT:	Look for several underwater caves and a resident White-tip reef shark. It's a colorful reef with good relief and quite a few fishes. Turtles can often be spotted at this site.
WHERE TO DIVE:	See map.
FACILITIES:	None.
COMMENTS:	Entry's not bad. Just watch the surf. Lately the resident shark seems to be hanging around the reef at Makena. (if it's the same one)

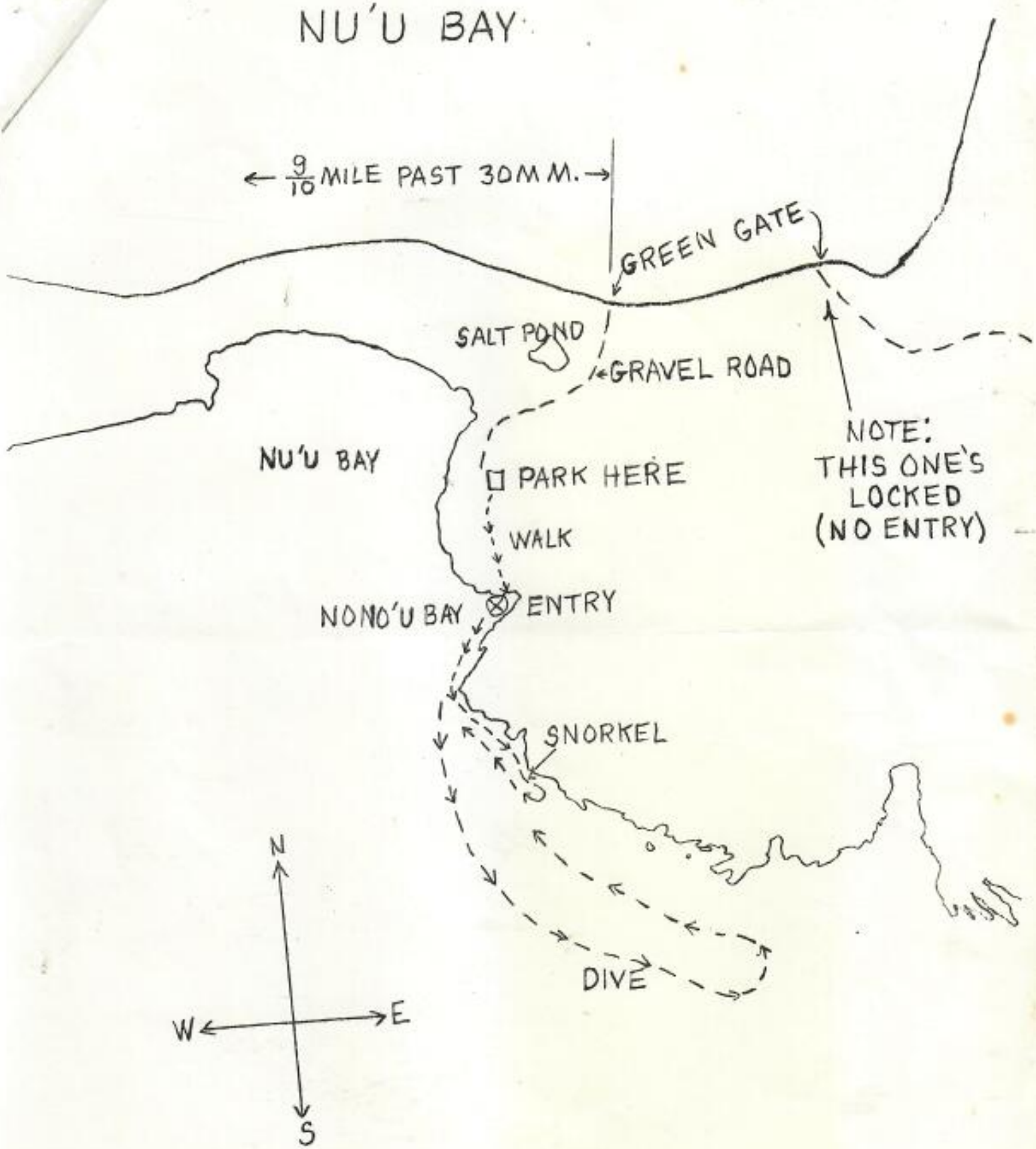
26.5 MILE MARKER
(Kaupo)

ACTIVITY:	Scuba
WHEN:	Best in Winter.
DEPTH:	50 feet is the maximum to edge of the reef.
SKILL REQUIRED:	Advanced diver. Skilled in rough water entrys.
TRANSPORTATION:	Jeep
DIRECTIONS TO SITE:	Turn down the dirt road 5/10 mile past the 26 mile marker. Drive all the way down, bearing to the left. Walk straight down from there. Enter wherever it appears safe. Good Luck! You'll need it.
WHAT TO EXPECT:	Great spearfishing to the left. Super underwater relief, arches etc. To the right of the lava rock out-cropping and in close to shore is a large cave. Don't forget your night diving light.
WHERE TO DIVE:	Take your pick. Fish to the left; Lobster to the right.
FACILITIES:	No such luck.
COMMENTS:	The water has to be ideal to get in here, unless you can fly. The entry is the killer. The climb down is no sunday stroll either. If you're back here with a jeep though it's well worth checking out. Lava rock entry; wetsuit is a must.

NULI BAY

ACTIVITY:	Scuba
WHEN:	Year-round, best in Winter.
DEPTH:	120 feet to sand bottom where the reef runs out.
SKILL REQUIRED:	Moderate to advanced.
TRANSPORTATION:	Truck or car with good ground clearance.
DIRECTIONS TO SITE:	9/10 mile past the 30 mile marker. Look for a green gate on the right (ocean side) if you're going toward Hana. It's one of the few that aren't locked. Lift up the wire loop, open the gate, drive through, and re-hook the wire loop. Then drive in the rest of the way.
WHAT TO EXPECT:	Possibly the best dive on the whole island of Maui. Gets deep rather quickly. Look for Awas commonly five feet long, Ulua's up to 100 lbs., tons of reef fish, lobsters here and there, a shark now and then, and an occaisional Eagle or Manta ray. This reef is so extensive, you-ll never be able to cover it with a tank of air. Bring two and burn 1 deep and 1 shallow.
WHERE TO DIVE:	See map.
FACILITIES:	If you haven't already guessed, zero.
COMMENTS:	Lava rock entry, but not too hazardous if the water's fairly calm. Stand on some high rocks before you get in and check the visibility.

NU'U BAY


← 9/10 MILE PAST 30MM. →
GREEN GATE
SALT POND
GRAVEL ROAD
NU'U BAY
PARK HERE
WALK
NONO'U BAY
ENTRY
NOTE:
THIS ONE'S
LOCKED
(NO ENTRY)
SNORKEL
DIVE
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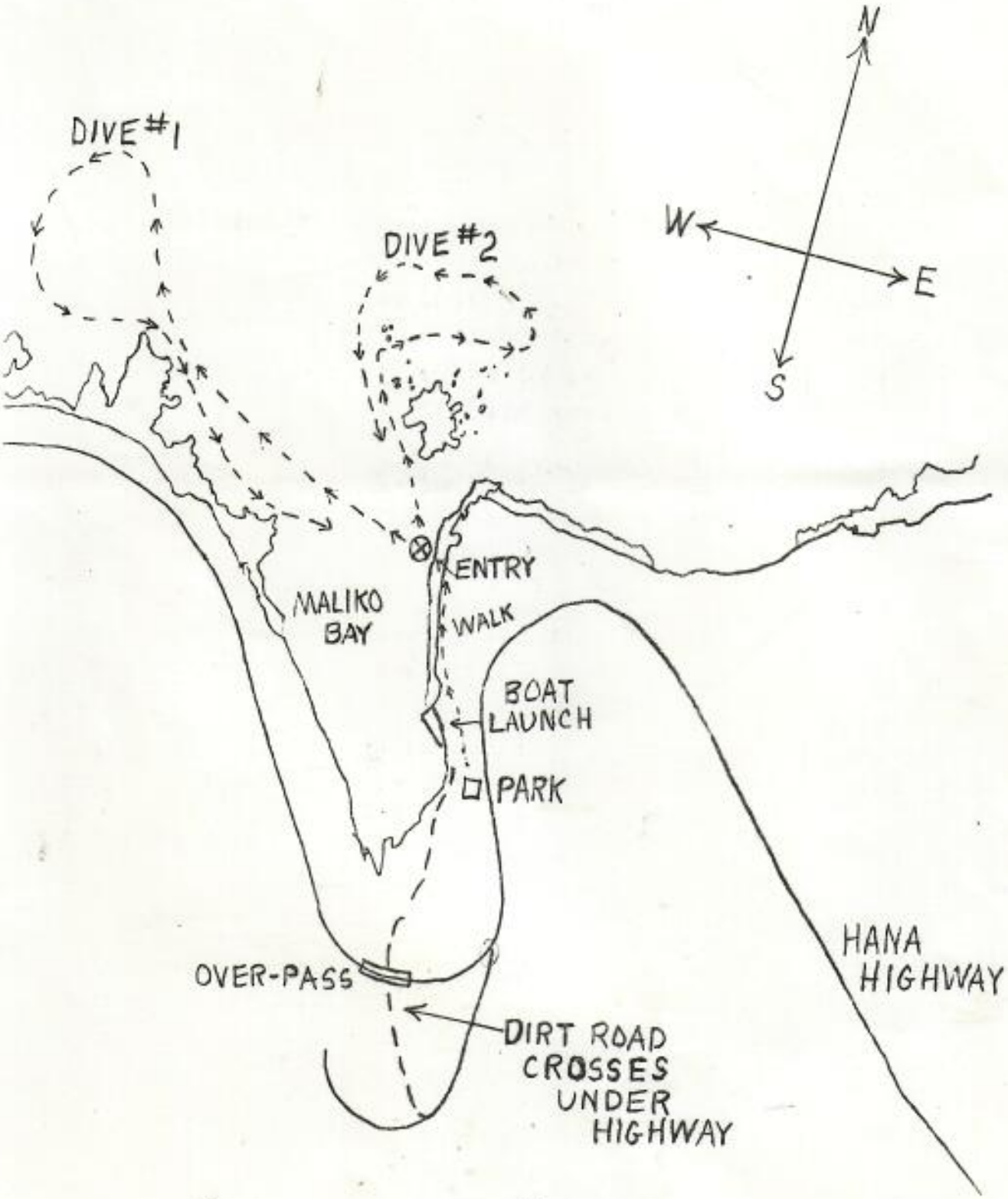
MALIKO BAY

ACTIVITY:	Scuba
WHEN:	Best in Summer or any time they're no surfing waves on the north shore. Check Hookipa Park for surf just before you get to Maliko.
DEPTH:	70 feet's about the max you'll need to go.
SKILL REQUIRED:	Site #1 Advanced Site #2 Moderate
TRANSPORTATION:	Car
DIRECTIONS TO SITE:	Going toward Hana, continue 6 and 8/10 miles past the intersection with the Haleakala High way (Route #37). Turn right here and follow the dirt road as it makes a loop back under the highway and straight in to Maliko Gulch.
WHAT TO EXPECT:	Gorgeous reef to the left side of the bay. On the right you'll find incredible rock relief, deep crevasses, and lots of turtles. Fishings better on the left but the surface swim is a killer.
WHERE TO DIVE:	See map.
FACILITIES:	None.
COMMENTS:	I recommend diving the right side. Park somewhere near the boat launch (Don't block boats from launching). Suit up and walk out as far as you can before entering. Wet suit recommended. Boulder rock entry.

MALIKO BAY


N
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DIVE #1
DIVE #2
ENTRY
WALK
MALIKO BAY
BOAT LAUNCH
PARK
HANA HIGHWAY
OVER-PASS
DIRT ROAD CROSSES UNDER HIGHWAY

April 28, 1982

RENE D. SYLVA
P. O. Box 218
Paia, Hawaii 96779

Dear George,

Thank you very much for the turtle poster. It is beautiful and well done. I will make use of it in the educational display in the Botanic Garden.

I have just finished reading Alika Cooper's letter for the third time, each time trying to be fair and understand his complaint, but I find myself becoming more disturb by what I read.

I will not try to explain what he is complaining about but give my personal opinion on the subject.

First, while I have not seen the Hawaiian Monk Seal Recovery Plan, I am in agreement that no fishing be allowed in the Leeward Islands.

Second. I am in agreement with the National Marine Fishery Service that turtles should continue to be illegal to catch in Hawaii.

I disagree with Mr. Cooper that the turtles are not endangered in Hawaii. My reason for this opinion is that I was involved with catching turtle since about 1944 almost continually until the turtle regulation came into effect. I did this in a long enough period of time to become

aware that the turtle population was decreasing more rapidly each year. Places in which I never missed catching a turtle, later it was difficult to catch them there.

I am very much disturbed that some Hawaiians today are trying to ignore State and Federal regulations concerning conservation, using their Hawaiianess as an excuse to do so by imposing their cultural and historical rights in this manner.

I also am Hawaiian, deeply involved in attempting to save Native Flora and Fauna now facing extinction. An effective regulation is the only way to do this.

Early Hawaiians were good conservationists, understanding the problem of taking without replacement. Therefore this lead to a taboo system which prevented the depletion of the stock. Unlike some of the Hawaiians today who do not understand conservation, nature can replace anything that is taken from the ocean.

I am more deeply concerned that once the turtle regulation is lifted, for whatever reason, all nationalities in Hawaii will be involved catching turtle legal or illegal.

Fish and Game has demonstrated in the past that it was always too slow, too late, enforcing

regulation. I see no reason why they won't continue to do so in the future.

To me the only hope to prevent the turtle from becoming extinct is for the Federal Government to keep the turtle on the threatening list.

Aloha,

Rick

April 1, 1985 F/SWC2:GHB

Mr. Arlen Henderson, President
Maui Electric
P. O. Box 398
Kahului, Maui, HI 96732

Dear Mr. Henderson:

Dr. Steven Coles suggested that I contact you concerning our Laboratory's interest in conducting a study of green sea turtles using the nearshore waters off your generating facility. Over the next 4 months we hope to make three or four study visits to this site, each lasting not more than 5 days. Personnel would include myself and two biological technicians. Much of our survey work would occur at night, when the turtles are more likely to come close to shore. On at least one visit, we plan to set tangle nets in order to capture and tag turtles with the ultimate goal of determining population size, migrations, and growth rates. Our Laboratory has a scientific collecting permit from the State of Hawaii that allows us to do this research in the waters off your facility.

Two of us are planning to make a short preliminary site visit sometime during the week of April 8. Before going to Maui I will be telephoning you, or one of your designated supervisors, to determine how best to coordinate our activities to prevent any inconvenience to the operation of your facility. I look forward to talking to you in the near future.

Sincerely,

George H. Balazs
Wildlife Biologist

cc: Balazs
HL

Thelma (Secretary) TEL - 871-8461

April 15, 1985 F/SWC:GHB

Mr. Arlen Henderson
Maui Electric Company
P. O. Box 398
Kahului, Maui, HI 96732

Dear Mr. Henderson:

I am sorry that I missed seeing you during our preliminary study visit to Maui last week to examine sea turtle habitat at several select sites. I was impressed with the number of turtles I saw at night warming themselves in the discharge water from your power plant. It will be rewarding to learn more about this unusual behavior. Basking to increase the body temperature of sea turtles is known to take place by floating at the surface in calm water, and also by crawling ashore during the daytime on remote islands in the Northwestern Hawaiian Island chain. The behavior exhibited in the shallow water off your facility is somewhat unique and deserved careful investigation since the species is listed in the U.S. Endangered Species Act.

I am planning our next trip to Maui for the week of April 29th, at which time I hope to net and tag turtles at night near the warm water discharge. It would aid our work considerably, both from a safety and convenience standpoint, if you could allow us the following privileges.

1. Permission to park our rental car inside the fenced area of the plant near the locked gate and stairs leading to the discharge site.

2. Access through the gate on a carefully controlled basis. We would lock the gate each time we pass through.

3. Use of the bathroom at the power plant.

Three Federal employees, including myself, will be conducting this work. We will maintain a room at the Maui Hukulau for sleeping, showering and other personal needs.

Thank you for your consideration of this request.

Sincerely,

George H. Balazs
Wildlife Biologist

cc: Balazs ✓
HL

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center
Honolulu Laboratory
P. O. Box 3830
Honolulu, Hawaii 96812

April 11, 1984 F/SWC2:GHB

TO: William G. Gilmartin, Leader, Marine Mammals and Endangered Species Program

FROM: George H. Balazs, Wildlife Biologist

SUBJECT: Brief report on a one-day trip to Kahului, Maui, to investigate the occurrence of turtles aggregated at the warm-water discharge of the Maui Electric Plant

On Saturday morning, April 7, 1984, I received a telephone call from Mr. Rene Sylva of Paia, Maui, stating that he had seen a group of large turtles aggregated at night close to shore in the discharge water of the Maui Electric Plant. Mr. Sylva formerly fished for turtles and is very knowledgeable of their habits. He was not previously aware of turtles occurring at this site, and he expressed concern for their survival in view of the poaching problem on Maui. I subsequently telephoned NMFS Enforcement Agent Gene Witham, who was already on Maui. Arrangements were made for him to meet with Mr. Sylva that evening to obtain more information. Additional telephone conversations with Gene Witham verified the continued nightly presence of the turtles.

On Monday, April 9, I traveled to Maui to dive at the site and observe the turtles firsthand. My main concern at that point was to gather as much biological information as possible, in the event that this was a short-lived phenomenon. Gene Witham and Rene Sylva's assistance on the night of April 9 greatly facilitated this work. I returned to Honolulu early in the morning on April 10 in time to attend the JACADS meeting at the Fish and Wildlife Service.

The findings of my short study proved to be most interesting. The site has considerable potential for future investigation. We should discuss these aspects at our earliest opportunity following my return from field work on the Big Island on April 17.

Sept. 26, '83

George,

Sorry about the delay in getting this info to you.

The following is a list of limu species I observed while dissecting the green seaturtle pictured in the photos:

Amansia glomerata
Sargassum sp.
Ulva fasciata
U. lactuca
Ogo
Halimeda sp.
Acanthophora spicifera

The turtle weighed around 200 lbs., plus.
Hope this info. helps you out.

Sincerely,
Fred

August 8, 1983 (see daily log)
Maui. "State enforcement people caught fishermen taking it home after it drain from tangling in their nets"

Dear Mr Balazs

forms sent 11-13-81

Oct. 19

HAWAIIAN POSTCARD

I wonder if you are still involved in turtle research these days. I just arrived in Hawaii and will be staying on Maui and studying more on the Olowalu Reef from Oct to Dec. I am working as food coordinator for a group of students from The Evergreen State College in Washington, a similar program to that which I was involved with ~~last sum~~ two years ago. Their emphisis this year will be more general Tropical Biology rather than specific Tropical Reef Ecology. There will be some reef work however and I my self plan on spending all free time under water. In any case there will be lots of eager and observant naturalist (biologist) and you might be interested in using this group to record turtle sightings. Maybe you could send me some forms to pass around on which the students could record sitings + details. If you happened to be on Maui during that time we'd be delighted to have you visit. ADDESS: TESC GROUP Come Pecuza Makaio, Anne Hoptsby RR1 Olowalu, Maui.

George H. Balazs
Assistant Marine Biologist
Hawaii Institute of Marine Biology
P.O. Box 1346 at U. of Hawaii
Coconut Island Manoa
Kaneohe,
Hawaii 96744

SILVERSWORD IN BLOOM . . . near summit of Haleakala Crater in Haleakala National Park, Island of Maui in Hawaiian Islands. Blossoms of these rare plants are sometimes ten feet tall.

Silversword in Bloom, Haleakala National Park

Lahaina Divers, Inc.
P. O. BOX 1547 · LAHAINA, MAUI, HAWAII 96761 · (808) 661-4505

February 13, 1983

George Balazs
National Marine Fisheries Service
Honolulu Laboratory
P.O. Box 3830
Honolulu, Hawaii

Dear George:

Thanks for the poster of the different kinds of sea turtles. You're right! We do enjoy it.

The other notice is up in our shop, too. Maybe by pointing out the fact that turtles are protected, it will help inform those who haven't bothered to pay any attention up until now.

Anyway, thanks again, and if you're ever over ourway, please stop in.

Aloha,

Blain

Blain Roberts

P.S. By the way, did you see the article in Oceans magazine about the leatherback turtle?

I would like to ask a favor from you. Could you please send me the address of the people who published your book - University Press? Lou has a book on diving Maui he'd like published

Thanks so much - and have a good season -

Mickey Pierotti-Zitnik
256 Southcliff Avenue
South San Francisco
CA 94080 December, 1981

Dear George!

Here's wishing you a real happy holiday season and a very twittling new Year!! Ho! Ho! Ho!

Whether or not you can tell who it is writing you it is Mickey - from Hawaii who is now on her way to

Florida - As we have gotten a job down there in the Keys - But won't be leaving for awhile but wanted to say hello to you so just in case you're ever on a Turtle expedition you can look us up.

But otherwise things are coming along fairly well. But

over

OLD-FASHIONED CHRISTMAS

Current

03

Friday, May 1, 1981 Honolulu Star-Bulletin A-13

Break in Sewer Outfall Fouls Maui Beach Park

WAILUKU, Maui — Signs warning of health hazards have been posted on a beach in Paia because of sewage flowing into the water from a break in a sewer pipeline.

Larry Killion, pollution investigation specialist for the state Department of Health's Maui division, said today four signs were posted Tuesday along 300 yards of a beach fronting Baby Park at Paia after he saw evidence of sewage, particularly human feces and toilet paper, floating in the water 10 to 15 feet from the shore.

Killion said tests of the water will be conducted Monday to determine the extent of the pollution.

He said the county's public works department confirmed that the sewer outfall pipeline which discharges Paia's sewage wastes 1,700 feet out into the sea has a break in it.

According to Ralph Hayashi, the county's public works director, the pipeline has a four- to six-inch break in it at the shoreline and the damage is repairable.

Hayashi said attempts are being made to divert the sewage through an emergency bypass line and a search is being conducted for a valve box which will handle the diversion.

He said county work crews have not been able to find the valve which has not been used since it was installed in 1953.

Tuesday, May 5, 1981 Honolulu Star-Bulletin A-17

Maui Starts Repairing Broken Paia Sewer Pipe

WAILUKU, Maui — County crews yesterday diverted the flow of raw sewage from a broken pipeline in Paia to a secondary outfall that reaches 200 feet out to sea.

A break in the main pipeline was noted last week when human feces and toilet paper were found floating within 10 feet of shore.

But the sewage could not be diverted immediately because crews were unable — until yesterday — to find a valve that controls the flow.

County officials said the valve was probably placed in 1953.

As a result of the break, the state Department of Health posted signs warning people against swimming in the area, which is about a half-mile from the popular Baldwin Beach Park.

COUNTY PUBLIC Works Director Ralph Hayashi said the secondary outfall will be used until repairs are made in the main pipeline, which carries the sewage waste 1,700 feet into the sea.

He said the break involves a 4-to-6-inch gash in the pipeline close to the shore.

"We have begun to mobilize equipment and material for the repair work and expect to have the problem corrected within two weeks," Hayashi said.

Following the shutdown of the broken pipeline, Larry Killion, state pollution investigation specialist, inspected the area and found no new evidence of sewage floating in the water.

Killion said, however, that test results of water samples he took from four spots along the shore will not be ready until the end of the week.

He added that the health hazard signs will remain posted at the site until the water in the area is found to be clean.

from Graybook log

Hana, Maui - Hawaiian man
works for Nat. Parks -
name - "KAHALIWAI"
Reportedly catches large turtles
and sometimes holds them in
his yard.

EGG CAYING ?

WAI'UHA BAY(?), MAUI

from Gray Book 4/28/78 - Hawaiian informant

Dec 1981

Lahaina Divers, Inc.

P. O. BOX 1547 · LAHAINA, MAUI, HAWAII 96761 · (808) 661-4505

Dear George

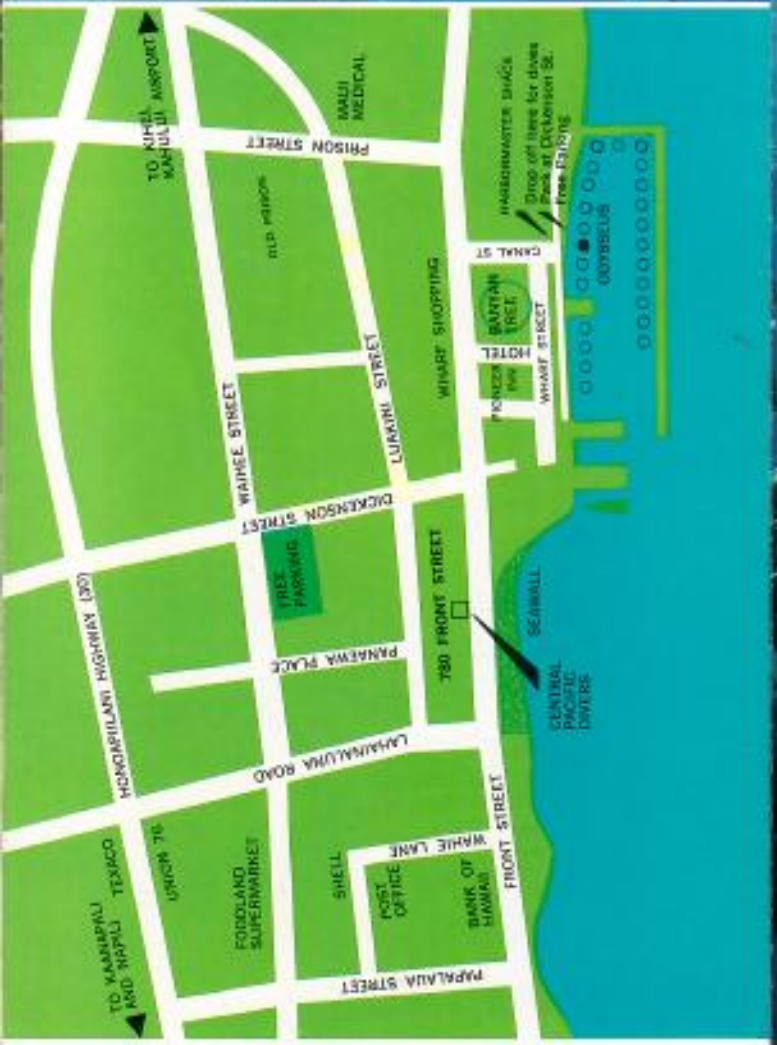
Sorry to disapoint you but the Photo of Hawksbill Turtle was not taken in Hawaii.

I took that on Vacation in Micronesia, on the Islands of Palau

If you would like a copy of the slide or more info feel free to contact me

Blain Roberts
P.O. Box 1547
LAHAINA Hi.
661-4505 SHOP
661-8610 HOME

sent 1-22-82



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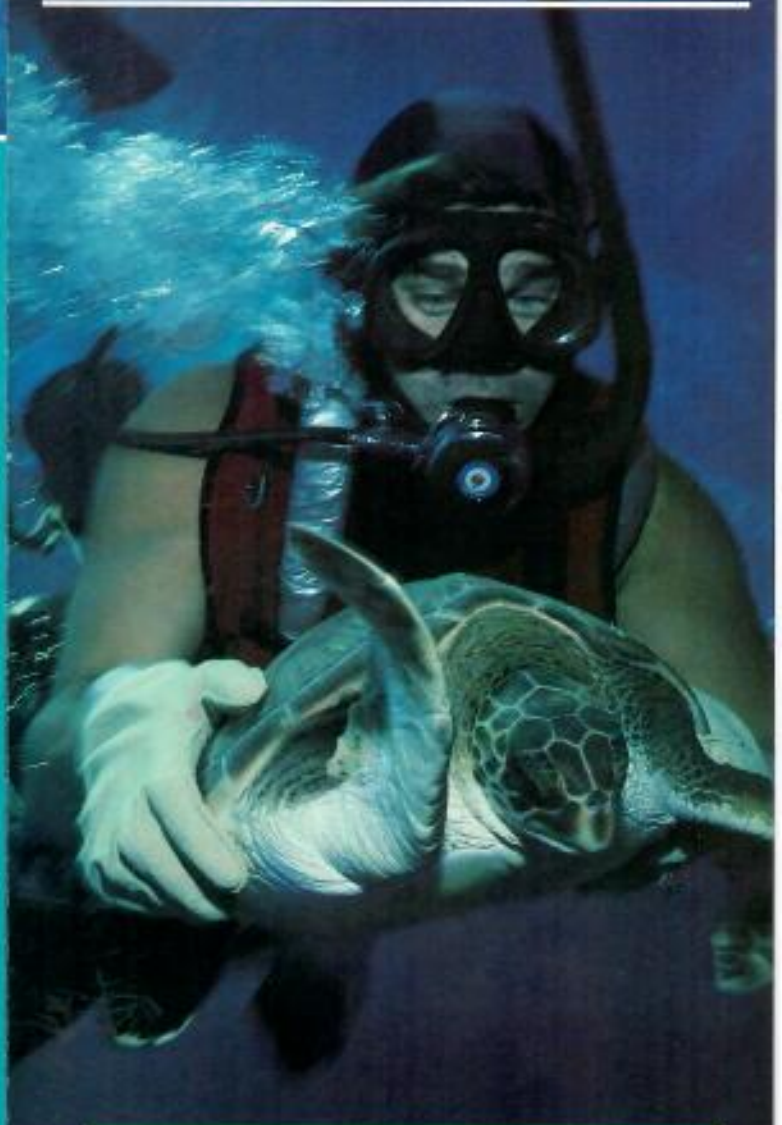

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2 TANK TRIP — **$49**

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If you have never tried diving before our instructor/guides will accompany you on a tour of a shallow reef. It's safe, fun and there is lots to see. We will provide you with all the equipment, instruction, boat ride and an enjoyable experience you will never forget!!

REFRESHER DIVE — $39

If you're certified and it's been awhile since you were diving, take this dive to brush up on your skills. We will deduct $10.00 from an interisland dive following your refresher.

Submarine Dive — $30

Dive the 311' long sunken WW II submarine; the USS Bluegill. Scuttled by the US Navy in 1971, this intact submarine is easily one of the most unique dives in the world. Includes equipment. For certified divers with recent experience.

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Includes complete equipment.

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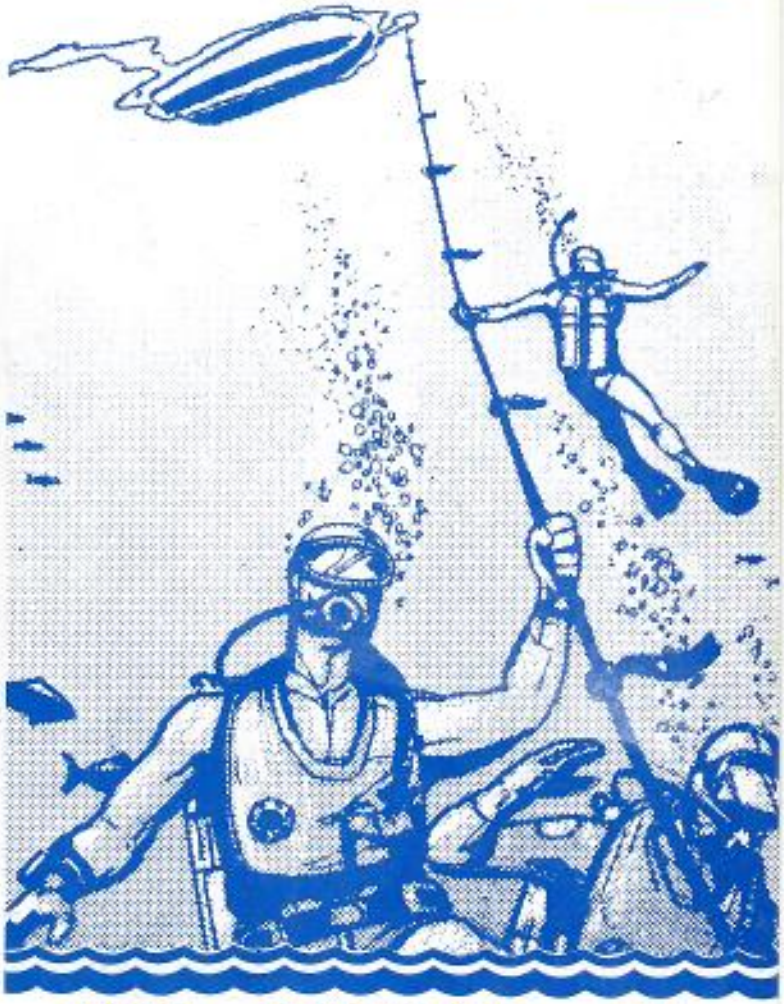
This is a complete openwater certification course. Ten Ocean Dives, the most up to date equipment, and an interisland Boat Trip highlite this week. The course includes complete equipment and runs Tuesday through Saturday each week. Stop by the shop or write for full details!

All prices are subject to change without notice. Reservations are necessary, you may sign up at our Downtown Lahaina Store or at our Royal Lahaina Hotel beach concession. MasterCard, VISA, and American Express are accepted.

BOAT DIVE



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★2 TANKS
★2 LOCATIONS
★NITE DIVES
★WHALES

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- 7:00 a.m. to 12:00 noon daily
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- Snorkelers or passengers ½ of base price.

$65.00

$25.00 DEPOSIT REQUIRED FOR ALL TRIPS. DEPOSIT

VISA, M

LOCAL DIVE

Two tanks, two different spots

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- Underwater photography available at $20.00 per roll
- 1 to 3:30 p.m.
- Snorkelers or passengers ½ of base price

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- Multiple dive discounts

OPENWATER CHECKOUTS

- PADI course completion
- 3 dive, ½ day program

CALL 667-7496 or 661-4505

FULLY REFUNDABLE WITH 24 HOURS NOTICE.
MASTERCARD, AMERICAN EXPRESS WELCOME

LAHAINA, MAUI, HAWAII

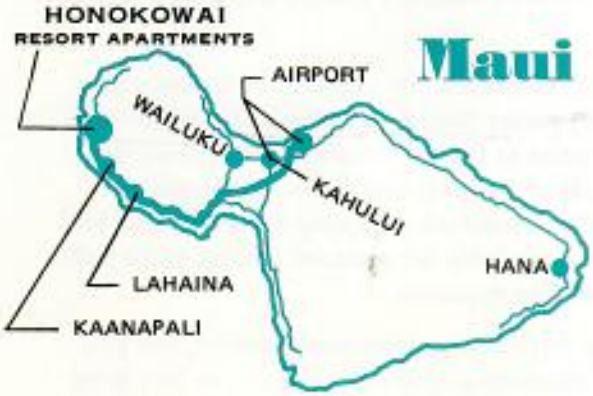
HONOKOWAI

resort apartments

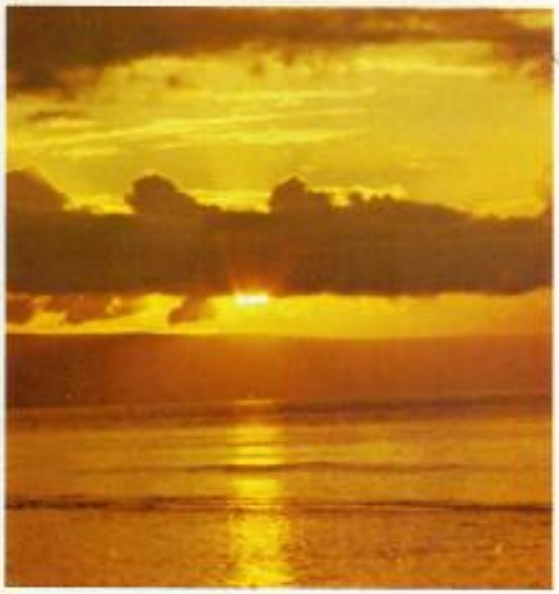
Honokowai Resort Apartments is centered in Hawaii's choicest resort area . . . midway between the world-famous Kaanapali Hotel complex with its championship golf courses, restaurants, and Whalers Village Shopping Center; and Napili, lush and beautiful. Quaint and historic Lahaina with its many unique shops is only five miles away, and all of the extravagant beauties of Maui are readily accessible for your explorations.

Honokowai Resort Apartments, completely furnished one and two bedroom units with fully equipped kitchens, are located opposite Honokowai Beach Park only 200 feet mauka of the beach. Single bedroom units in the front building face towards the beach and the beautiful neighbor islands of Molokai and Lanai. The center of activity at Honokowai is the spacious pool and sundeck adjoining a shaded lanai and game room. Poolside barbeque equipment is available for outdoor dining, and a self-operated laundry is conveniently located on the premises.

Honokowai, in the midst of numerous sun-drenched, golden sand beaches, lets you set your own pace . . . swimming, surfing, snorkeling, golf or tennis . . . or just lying on the beach soaking up the sun . . . your perfect vacation destination.



HONOKOWAI
resort apartments



For reservations write us at:
HONOKOWAI RESORT APARTMENTS
RR 1, Box 354, LAHAINA, HAWAII 96761
Or phone: (808) 669-6130
Or call your favorite travel agent:

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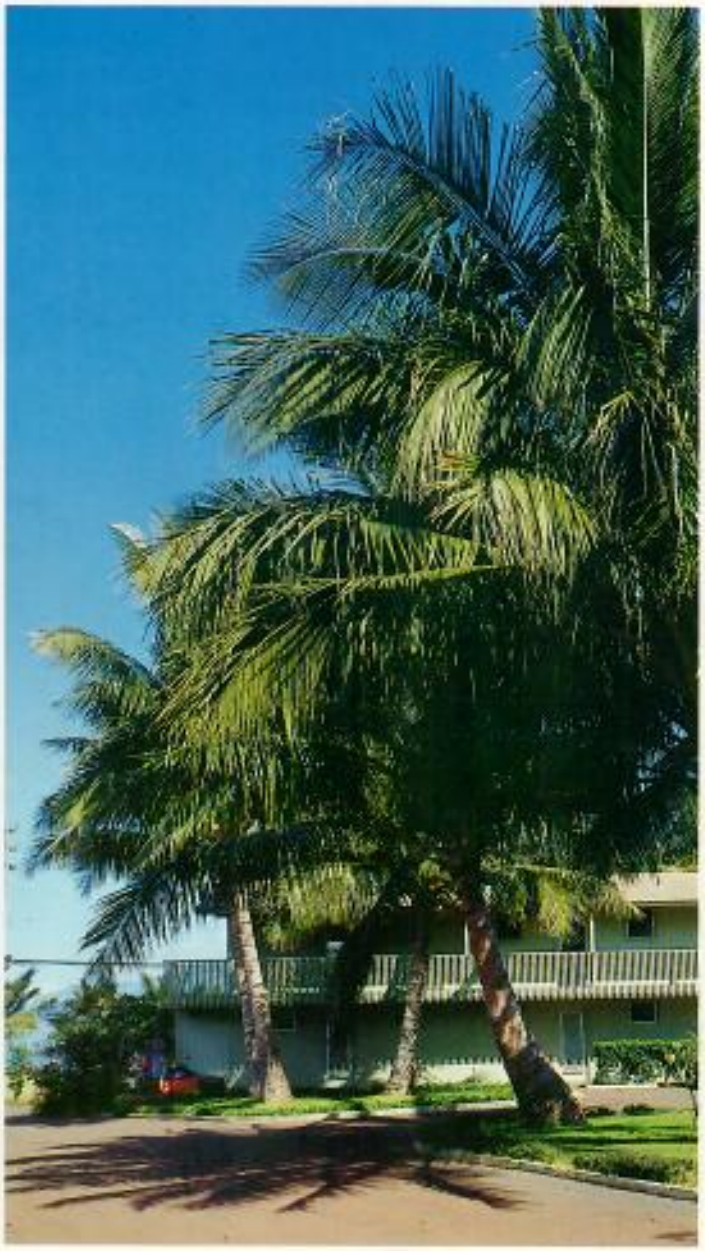
LAHAINA, MAUI, HAWAII

HONOKOWAI
resort apartments



GEORGE R. ARIYOSHI
GOVERNOR OF HAWAII

DIVISIONS:
CONSERVATION AND RESOURCES ENFORCEMENT
CONVEYANCES
FISH AND GAME
FORESTRY
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF CONSERVATION AND RESOURCES ENFORCEMENT
P. O. BOX 1006
WAILUKU, HAWAII 96793

June 3, 1981

Mr. George H. Balazs
University of Hawaii at Manoa
Hawaii Institute of Marine Biology
P.O. Box 1346
Kaneohe, Hawaii 96744

Dear Mr. Balazs:

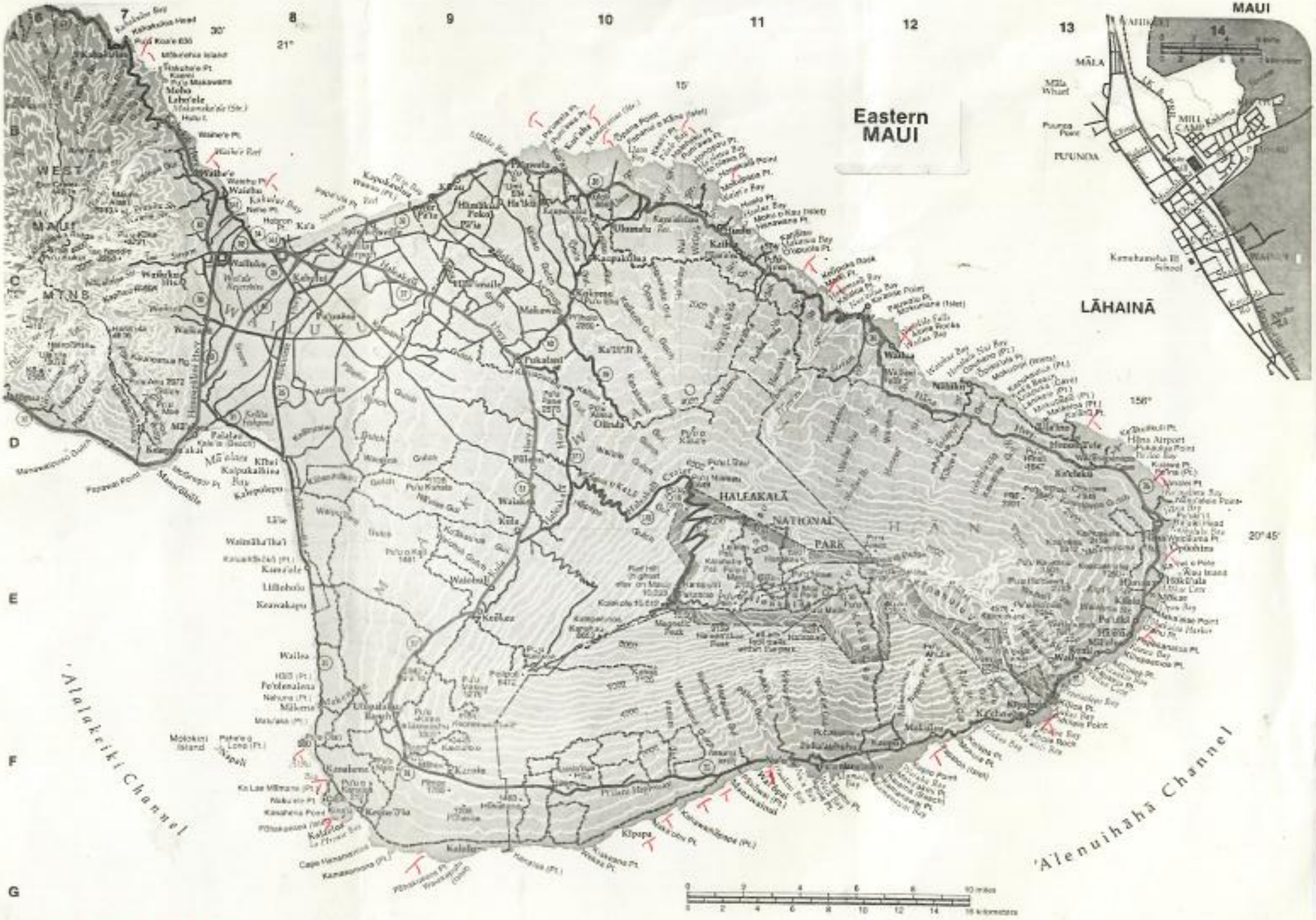
Am sorry for the delay in answering your correspondence. Green sea turtles have been observed along the shoreline areas surrounding Maui, Molokai and Lanai. At the present time I have no information regarding nesting sites on these islands. No present information of turtles at Kahoolawe.

Information received from fishermen are indicated on the attached map. Should you need any information you can call the division at 244-4352.

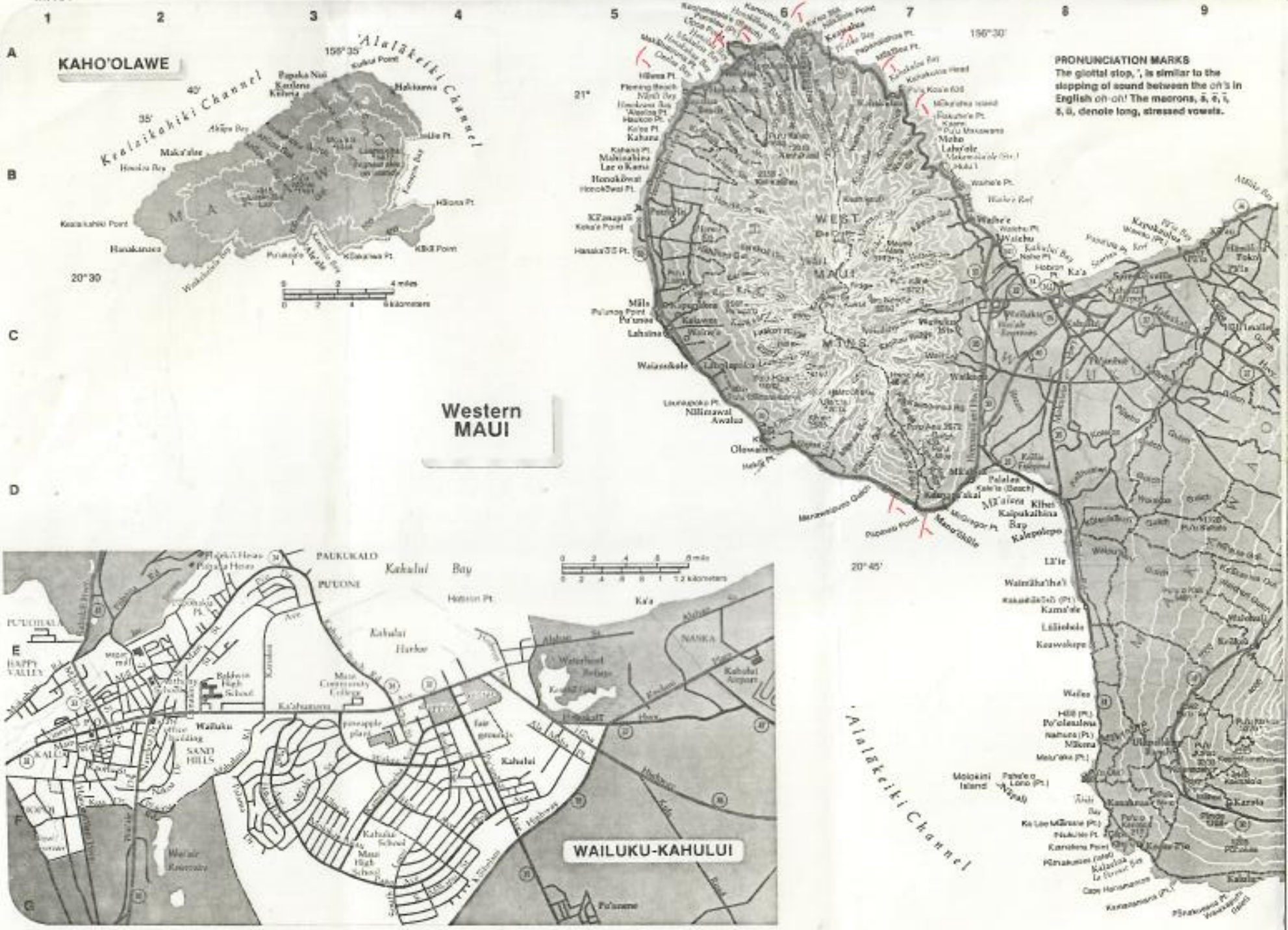
Sincerely,

Roger Pai
Maui Branch Chief

Enclosure



T= Turtle Sighting



PRONUNCIATION MARKS
The glottal stop, ʻ, is similar to the stopping of sound between the oh's in English oh-oh! The macrons, ā, ē, ī, ō, ū, denote long, stressed vowels.

T = Turtle Sighting

SCUBA DIVING ⊛ SNORKELING

CENTRAL PACIFIC DIVERS (FREE SNORKELING MAP)

HELPFUL HINTS:

• Snorkeling puts you into a whole new world of adventure. You'll see things you never knew existed, and will rate your snorkeling excursion as one of the highest points of your whole vacation. You don't need to be a good swimmer, since your body will naturally float in salt water and you can breathe easily through your snorkel. If you're a snorkeling beginner, you can help your self-confidence by putting on your mask and snorkel and doing a few minutes of "dry-run" on land.

• Don't go snorkeling alone, or leave your group to go exploring another area by yourself. It's more fun, anyway, when you have someone else to help you see things and to compare notes afterward.

• Look at the water carefully before entering. Observe the direction and speed of any current that may be flowing, particularly on points of land where currents may be strong.

• Avoid getting scrapes or cuts from coral. If you get any serious cuts, better check with a doctor; minute specks of coral in the wound can cause problems with healing.

• Don't put your hands into any caves or recesses in rocks or coral heads. These places are the natural home of the eel, who is not at all aggressive but is fiercely protective of his hidey-hole.

• After you've experienced snorkeling, would you like to up-grade the thrills and pleasures? Why not try the Introductory/Refresher Scuba Dive with Central Pacific Divers? Like snorkeling, it's easy, it's safe, it's fun — more fun than you've ever known in the water.

FREE SNORKELING LESSON at Royal Lahaina Hotel, 9:00 a.m. daily. (See No. 6 on map.)

Phone 661-8718

RECOMMENDED SNORKELING LOCATIONS

1. **HONOLUA BAY:** 1-1/8 mile past D. T. Fleming Park. Take unmarked, bumpy dirt road to Bay. Good snorkeling and diving on right. Pretty good out to left also. Do not leave valuables in car.

2. **SLAUGHTERHOUSE (Makulaea Bay):** ¾ mile past park just past "Blow Horn" sign at top of hill. Park on wide left shoulder and take path down to white sandy beach. Good body surfing and snorkeling when calm out to right.

3. **D. T. FLEMING PARK:** Just north of Kapalua. Restrooms, showers. Snorkeling among rocks only when calm, decent body surfing.

4. **KAPALUA BAY:** Just north of Napili Kai Beach Club. Take beach access down to left, park in public parking. OK snorkeling and diving out to right.

5. **WINDSOCK AIRPORT REEF:** Just north of Royal Lahaina Hotel at Kaanapali Airport. Look for windsock on beach — snorkel and dive out on successively deeper reefs.

6. **CENTRAL PACIFIC DIVERS — ROYAL LAHAINA BEACH CONCESSION:** Rentals of masks, snorkels, fins, surf mats, back rests, Boogie Boards. Charter sign-ups, free snorkeling lessons every day at 9:00 AM. Park by tennis courts. Closest concession to Beach.

7. **BLACK ROCK (Sheraton):** In Kaanapali Beach Resort. Dive or snorkel at the rock at north end of beach Visitors park at Whaler's Village. Snorkel or dive around rock, hand-feed tame fish.

8. **CEMETERY:** Straight out from cemetery north of Wahikuli Park is a reef good for diving and snorkeling.

9. **OLOWALU:** ¼ mile south of Olowalu General Store, park at roadside. Large shallow reef. Kick into deeper water for more marine life.

10. **WASH ROCK:** ¼ mile south of scenic lookout, park at top of dirt road. Enter to left and dive around rock to right underwater.

11. **KAMAOLE BEACH NO. 3:** Snorkeling reef at center and south.

12. **POLO BEACH:** Just south of Wailea. Shallow snorkeling at both ends of beach.

13. **FIVE CAVES:** Just before Ulupalakua turn-off on the way to Makena. Stop at Graves. Very long surface swim out to wash rocks offshore; caves below rocks.

14. **MAKENA BEACH:** Drive south of Polo Beach on semi-paved road until you pass Red Hill. Turn right on dirt road(s) and drive over to beach. Snorkel around hill beach towards Kihei. Also a good body surfing and sunning beach.

If you enjoy snorkeling, why not try Scuba diving! Our Introductory Dive gives you an opportunity to dive with an Instructor's supervision. Trips daily, all equipment included. Ask for details at our Beach Concession or our downtown Lahaina shop.

Class - Gelid
Genus - Gelidvim
Species -

May 6, 1974

Dear Mr. Balazs,

Thank you for your letter of April 26 and especially for all your effact in preserving marine turtles in Hawaiian waters.

I was a turtle fisherman for over thirty years with an approx. catch of one thousand turtles, and all was used for home consumpti Despite the fact that my family an I are heavy users of turtle meat, we favor regulation 36 with reservations. I believe that regulation 36 has not gone far enough in garanteeing the protecti of the turtles. However it will help, as the regulation is headed in the right direction. I did make some of my objections known in my testimony at both public hearing Because regulation 36 has allreed, passed, I will not go into detail.

I have heard from various people that you are an expert on turtles, here in Hawaii. I am enclosing a piece of seaweed that I know turtles especially fond.

I know this for a fact as I have cleaned many a turtle and have also cleaned sea urchins and have noticed an abundance of this seaweed in its gut. I have also noticed that all eggs does not appear to develope at the same time. I noticed in the years of slaughtering turtles, especially in the month of Aug. and September, four or five eggs are ping pong ball size or nearly so, and the rest of the eggs taper down to about one eighth inch in diameter, which shows that the eggs appear to develope one after at a time. I have also noticed that when the female has eggs there is an abundance of green fat about one inch thick on the upper shell. While I catch turtles in my area (Paia Kahului) and I do fish clear around Maui, I notice all large turtles are found only near sandy beaches. It appears that the higher the cliffs on the shoreline, the smaller the turtles.

In the years that I've caught turtles I have learned a lot about their habits and ways. If I can be of any assistance, write me and I'll be glad to help.

Aloha
Rene Sylva

UNIVERSITY OF HAWAII • MAUI COMMUNITY COLLEGE

7/12/83

George Balazs
National Marine Fisheries Service
P.O. Box 3830
Honolulu, HI 96812

Dear George:

I'm glad the index is of help to you. Here are the two entries on sea turtles:

- lassoing proves futile 3/7/03 3:3 (as I remember, a creative description)
- Okinawans harvest several tons a day 4/12/18 1:2

Yes, the Garden Island is being indexed. Contact Catherine Lo at Kauai Community College. Also, for the Hawai'i Tribune Herald, contact Junko Nowaki at UH-Hilo. I would like to update the Maui News index, but will have to wait for future leaves. It will be going on computer the next time.

Thanks for the Lahaina shark attack story; I enjoy hearing of serendipitous research finds. Thanks also for the beautiful postcards. I took them home for a nature lesson for our daughters. We wouldn't be surprised if they both turned out to be biologists!

Aloha,

Gail

Gail Bartholomew

310 Kaahumanu Avenue • Kahului, Hawaii 96732 • Telephone 244-9181

2

Dr Mr Balase, 1/12/81

I just found two more of these turtle forms tucked away in my luggage as I finally got unpacked here in Olympia. I'm sorry not to have enclosed a note with the other forms but I was pressed for time to send them off.

It was a different group of students this time than two years ago and I did not find as many marine enthusiasts as before. From the forms you may have noticed that there were only a handful of people out of the 30 that reported sightings. The reef conditions were not consistantly good and in fact was only accessable 1/3 of our stay there. As much as I had hoped to do some repetative indepth studies and transects the adverse weather and the demands of the job prohibited this. My few sightings reflected this. I was glad to see the few individuals I did but I don't feel that these reports reflect an equal situation as that of 2 yrs ago.

In any case I hope the few forms can be of help to you. I am only regretful of the circumstances. I hope all is going well for you and would appreciate some time hearing a little about what work you are involved in these days. I was just two weeks ago visiting the Big Island had the opportunity to spend an afternoon at Kiholo Bay. Although we saw more people there fishing and picnicing, it retained that same isolated pristine aircoverall. I did not see any turtles or rays but could hardly hope to in that short time. I only remembered what you had been up to two yrs ago.

I hope to be in touch.

Best wishes,

Anne B. Appleby

NBA
2406 Delphi Rd SW
Olympia
Wa. 98502

Maui was made for sno

By Edwin Tanji
Advertiser Maui County Bureau

KIHEI, Maui — Most people come to Maui's beaches to enjoy the white sand and occasionally cool off in the clear blue waters. Some find there's also something to enjoy under the water.

They'll slip on a face mask, hook on a snorkel or load a set of SCUBA tanks, and take a look at the colorful marine life which can be only glimpsed from above the surface.

The rocky coastline at the Wailea Resort is one of the favored areas for those who just want to get a look under the surface. Just below the surface, there may be a flash of silver and blue as a school of *nehu* take flight at the disturbance. The black lava rocks will be spotted with patches of blue or yellow coral, or sprouting a beard of reddish-brown limu.

In the shallower water, a few gray-green mamo may dart off, or tiny silver plated *aholehole* will flash among the rocks. In deeper water, a wider array of more of the colorful reef fish will swirl with the waves and suddenly speed off in flight.

Among the braver fishes, a blue/purple/green *hinalea lauwili* , or saddleback wrasse, will watch with curiosity before slipping away to join the other fleeing intruders.

Sea cucumbers, sea urchins, an occasional bristly starfish, crabs and tiny shrimp are scattered on the coral and rocks. A diver peering into a hole in the rocks my find a cowry clinging upside down. An octopus may peer out from its hole, or be caught slinking along the rocky bottom.

In a sandy channel, a school of pale, bearded weke graze on the bottom, searching with probing barbels for a stray crab or shrimp.

Off the rocks near the Wailea Beach, a diver is likely to circle a lava outcropping to startle a mass of yellow-green striped manini swirling like confetti in the waves until they suddenly turn tail on signal.

The waters off Kihei are not the only areas where colorful undersea life can be experienced. One of the most popular snorkeling areas on Maui is the ocean around the Sheraton Maui Hotel at Kaanapali, perched on the so-called Black Rock. The lava surface sprouts limu and tiny shellfish which feed the fin fishes. Crevices and coral growth provide refuge from marauders for the smaller critters.

Blaine Roberts, manager of Lahaina Divers, cites Black Rock among several popular snorkeling grounds. Others include Olowalu, where the reef forms a shallow shelf several hundred yards out; Kapalua Bay, formerly known as Fleming's Beach which is well protected from high waves; Honolua Bay, which is a state marine life conservation district.

Snorkeling doesn't have to be confined to near-shore areas, although the shallower waters are obviously more comfortable for the novice.

Roberts says charter tours to distant, and deeper, waters such as Molokini islet, or the waters off Lanai, will include a snorkeler if someone wants to go but isn't interested in donning diving tanks.

The Coral See glass bottom boat also has provisions for passengers to get closer to the fish and sealife being observed through the glass-paneled bottom.

Some dives can be awe-inspiring. During the humpback whale season around Maui, the singing echoes through the cone-shaped crater that lies under water at Molokini. The crater serves like a speaker, amplifying the humpback songs till they rumble like a pipe organ in a massive cathedral.

Some dives can be educational. Ann Fielding and Ani Thomas, of Maui Nature Tours, conduct near-shore snorkeling tours in which the sealife being observed is also explained. Fielding has a master's degree in zoology and worked in the Hawaiian marine biology division of the Bishop Museum. Her dives include an opening lecture, a quick look under water, a second lecture-discussion on what was seen, and a longer snorkelers' tour.

"Basically, we explain what they're seeing," Fielding said. Among other things, she describes the *hinalea lauwili*. It changes its sex as it becomes older, from female to male. "People like this transvestite fish," she said. There are other species she will describe which have similar life histories. It's not all that unusual since the fish are living in what's essentially a pool filled with larval forms of millions of species of aquatic life.

Hawaii really has a paucity of sea life, compared to some other areas of the world, Fielding said.

rkelers

"Hawaii is so far away from anyplace, very few things have gotten here," she said. She explained the ocean currents which sweep past the Islands carry the aquatic life as larvae. Some are able to settle after being carried apparently from the western Pacific areas such as Indonesia. But only a relative few actually make it.

"We don't have the diversity of the Great Barrier Reef (in Australia)," she said.

There still are enough critters in Hawaiian waters to make it interesting. There may be a shark, although divers report rare appearances. There may be an even rarer appearance of a school of frolicking porpoises. Where there may be an isolated sand beach, such as off the north shore of Lanai, a diver may find a sea turtle basking in the sun and flying off with remarkable agility on its clumsy fins.

For those interested in more than just puttering around with a snorkel, there are charter boats and dive shops in the Kihei area and west Maui willing to accommodate. Several shops also can provide SCUBA certification lessons, generally running for four days at a cost of between $200 and $300.

For the less adventurous, the cruise boats also offer open bars, light-to-heavy meals and photographic descriptions of what might be found just a few feet below.

Advertiser photo by Edwin Tanji

Ann Fielding, a zoologist, conducts near-shore educational excursions for Maui Nature Tours.

THE

MAUI FILE

1-22-84, Saw book at Waldon's Bookstore - dealing with Hana area of Maui - Index listed a Waiohonu stream - near "Pictographs"

my note:
(Turtles possibly seen a ocean mouth of stream - consequently being given this name?)

"WAI-O-HONU" stream

Hana, Maui, - near pictographs

MAUI

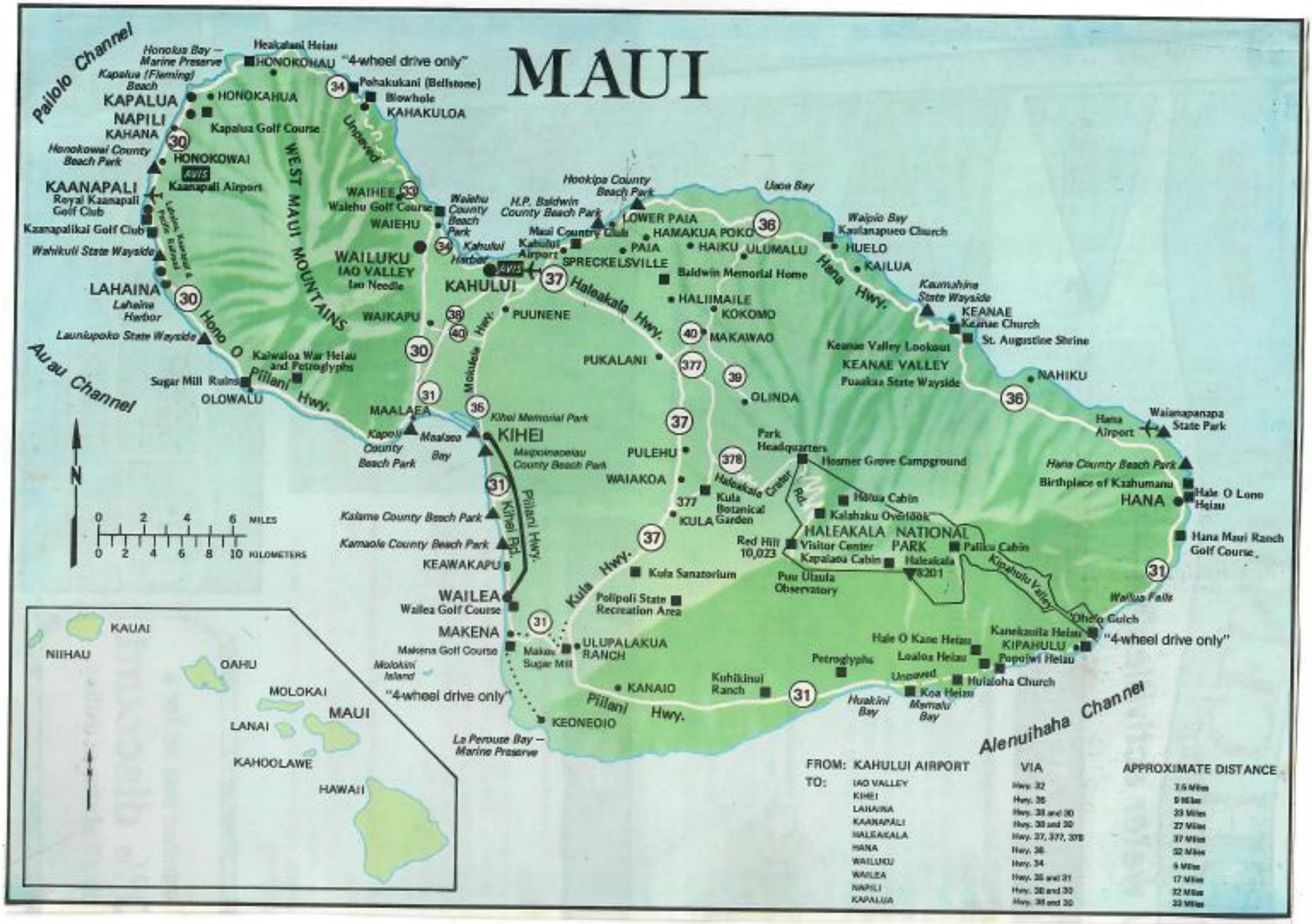
Nickname: The Valley Isle
Land Area: 728.2 square miles
48 miles long; 26 miles wide
Second largest island in the Hawaiian chain
Mayor: Hannibal Tavares
Population: 62,823 (Source: Dept. of Planning/ Economic Development, Oct., 1982)

USE AND CARE OF HAWAIIAN WOODS

BEFORE USING YOUR FINE PIECE OF HANDCRAFTED WOOD, RUB LIGHTLY WITH BABY OR MINERAL OIL, LET THE OIL PENETRATE THE WOOD AND THEN WIPE OFF THE EXCESS. WASH ALL PIECES IN WARM SOAPY WATER WITHIN SEVERAL HOURS AFTER USE. HAND DRY EACH PIECE. OIL OCCASIONALLY.

THE WOOD WILL ACQUIRE A MELLOW DISTINCTIVENESS RESULTING FROM USE AND AGE.

Hawaiian Gift, Inscot, Kailua Kona,



FROM: KAHULUI AIRPORT TO:	VIA	APPROXIMATE DISTANCE
IAO VALLEY	Hwy. 32	7.5 Miles
KIHEI	Hwy. 35	9 Miles
LAHAINA	Hwy. 38 and 30	33 Miles
KAANAPALI	Hwy. 30 and 30	27 Miles
HALEAKALA	Hwy. 37, 377, 378	37 Miles
HANA	Hwy. 36	52 Miles
WAILUKU	Hwy. 34	6 Miles
WAILEA	Hwy. 35 and 31	17 Miles
NAPILI	Hwy. 30 and 30	32 Miles
KAPALUA	Hwy. 30 and 30	33 Miles

GO Enjoy The Water

Explore Maui's wealth of undersea life on a snorkeling tour with Capt. Nemo's Ocean Emporium.

Lahaina/Kaanapali

Alihilani Yacht Charters, Lahaina. Board the beautiful 40' mahogany and teak cutter *Alihilani.* Your licensed skipper will take you sailing along Maui's everchanging panoramic coastline. Explore spectacular coral reefs, swim, snorkel or just relax. Three-hour sails w/snorkel $40 each; full day w/snorkel $70 each; 2-hour sunset sail $25 each; private charters $70/hour. Includes lunch on full days, fresh pineapple, chips, beverages, snorkeling gear and instruction, underwater cameras (bring 110 film), prescription face masks, jackets for tradewind sailing and fishing. Also available is the *Makani Wiki* — our sleek and fast 36' catamaran. Sailing daily, call early. No crowds — 2-6 passengers. Phone 661-3047.

Anela Kai. Enjoy sailing Maui's coastline as the first Hawaiians must have. Take in the amazing 4-Island view aboard the *Anela Kai* (Sea Angel), a large (40' x 20'), Hawaiian-built catamaran that could carry 20, but is only chartered for 6! Catamarans are more stable boats due to their width, and the *Anela Kai* even has sea steps for easy entry into Maui's ocean wonderland. Sail, snorkel (all equip. & instruction incl.), swim, sunbathe, use the underwater camera, windsurf (avail. on full-day sails), play on boogie boards or fish. Half-day sails (3½-4 hrs.), $45, include a generous lunch, while full-day sails (7½-8 hrs.), $75, include continental breakfast and lunch. Call 242-7218 (anytime — let it ring!) or 667-7186 (evenings). See Coupons & Offers for $5 off when you call direct.

Bali Hai, Slip #53, Lahaina Harbor. Take the challenge of big game sport fishing aboard the 42-foot *Bali Hai.* All fishing gear is provided on this diesel-powered boat for full- and half-day charters, and she's skippered by a Coast Guard-licensed captain. Co-chartering boats is allowed. Call 667-9237 for reservations. See Coupon & Offers for 10% off.

Capt. Nemo's Ocean Emporium. Snorkeling, scuba diving and sailing aboard the 58-foot catamaran *Sea Smoke.* Sail to Lanai and other remote areas to explore the beautiful undersea world amid the coral reefs. Breakfast on fruit and strudel, feast on their famous picnic buffet lunch. No experience is necessary to learn snorkeling and scuba diving from the expert staff of instructors. All gear, food and soft drinks provided. Departs daily at 8 a.m. from Whalers Village, Kaanapali Beach. Whale watches 3:30-5:30 p.m. Call 661-5555 or stop by Capt. Nemo's in Lahaina at 700 Front St. & Dickenson to make reservations. Capt. Nemo's can help you with all your snorkeling and diving needs. See Coupons & Offers for $5 off underwater camera rentals, $5 off snorkel/scuba sails.

Coral See, Slip #1, Lahaina Harbor. Get up close to Maui's incredible underwater world on the 65' glassbottom boat *Coral See.* Take the half-day Picnic/Snorkel Tour departing daily at 11:30 a.m. Explore west Maui's pristine coastline while trying your luck at sportfishing along the way to excellent snorkeling at one of several offshore reefs. Snorkel instruction and equipment, buffet lunch and open bar included for only $39 (children $19.50). Phone 661-8600 for reservations. See Coupons & Offers for 10% off.

(continued)

"Turtle Reef" - LANAI

JULY 1984

FREE SNORKELING MAP

CENTRAL PACIFIC DIVERS

780 FRONT STREET / LAHAINA, HI 96761

1. **HONOLUA BAY**
1-1/8 mile past D.T. Fleming Park. Take unmarked, bumpy dirt road down to Bay - or, park just off main road and walk in. Good snorkeling and diving out to right or left.
Not good after rains - muddy stream. Best in summertime.

2. **SLAUGHTERHOUSE (Makulaea Bay)**
Not far past 32-mile marker. Park on wide left shoulder. Take path down to white sandy beach. Good body surfing - good snorkeling *when calm only*.

3. **D.T. FLEMING PARK**
Just north of Kapalua Bay. Restrooms - showers. Snorkeling out and right *when calm only*.

4. **KAPALUA BAY (Old Fleming Beach)**
Just north of Napili Kai Beach Club. Take beach access to left, park in public parking. Snorkeling or diving out to right side.

5. **AIRPORT REEF Windsock**
Just north of Royal Lahaina Hotel at Kaanapali Airport. Take public access path to beach - look for windsock. Snorkel or dive out on successively deeper reefs.

6. **BLACK ROCK (Sheraton)**
In Kaanapali Beach Resort. Dive or snorkel *around* rock on north end of Kaanapali Beach. Hand-feed tame fish. *No spearfishing.* Park at Whalers Village parking lot. Walk out to beach in back of shopping center.

7. **OLOWALU**
About 6 miles south of Lahaina. Look for Olowalu General Store and Chez Paul Restaurant. Go 1.1 mile past and park at roadside. Large shallow reef, kick into deeper water for more marine life.

8. **SCENIC LOOKOUT**
Take rock trail in middle of lookout down to water. Dive either direction depending on current. 30' to 60'. Rock entry - watch waves.

9. **WASH ROCK**
3/4 mile south of scenic lookout. Park at *top* of dirt road. Walk down. Enter to left and dive around to right of Wash Rock. Rock entry, watch waves and sea urchins.

10. **KAMAOLE BEACH #3**
Snorkeling reef to far right side of beach.

11. **ULUA BEACH**
Public access between Westin Wailea and Inter-Continental Hotels. Two reefs, one close in for snorkelers, one further out for divers.

12. **WAILEA BEACH**
Turn past Wailea Shopping Village. Dive or snorkel out to left.

13. **POLO BEACH**
At Polo Beach Club, south of Wailea, shallow snorkeling at both ends of beach.

14. **FIVE CAVES**
1-1/3 miles south of Polo Beach. Park at graveyard. Walk down via shortest path down to water. Surface swim out to rocks off shore. Five Caves below rocks - take a light.

15. **MAKENA BEACH**
Drive south of Polo Beach on semi-paved dirt road to *just* past Red Hill. Turn right on dirt road and drive to big beach. Snorkel around Hill towards Kihei. Also good body surfing and swimming beach. Can be rough in summertime.

Phone
661-8718

HELPFUL HINTS

General Weather Trends - * Windier and rougher in afternoons.

* Ocean swell is normally from the north in the winter and from the south in the summer.
* Currents are stronger around points - observe direction of current before entering water. Plan accordingly.
* Not all areas will be good every day. It depends on the direction and the strength of the wind and the ocean swell. Please feel free to call us for advice.

SPECIAL NOTE: Never leave valuables in car or in car trunk. They are *not safe* and will probably be missing upon your return. This is particularly true in remote areas and also in your hotel parking lot. Don't say no one warned you.

If you enjoy snorkeling, why not try Scuba diving! Our Introductory Dive gives you an opportunity to dive with an Instructor's supervision. Trips daily, all equipment included. Ask for details at our downtown Lahaina shop.

HANA BAY - Snorkel inside of lighthouse.

Maui Beach Press
Nov. 30-Dec. 6, 1984

Ticket to ride

Dive instructor Kathy Mumford latches onto a giant sea turtle while diving. If you're lucky enough to catch Kathy at her full service dive shop on Front Street in Lahaina, called Capt. Nemo's, she will outfit you with an underwater camera and snorkel gear for a trip aboard the 58' catamaran Sea Smoke or their 27' high speed cruiser which departs daily to exciting remote scuba spots. Call 661-5555 or 661-0429.

On land, sea and in the air, Maui offers a spectrum of special activities most of which make sightseeing an activity to be enjoyed. The following is an index listing in alphabetical order of the activities available. Don't forget that many require advance reservations.

•Bicycle Tours of Maui transports you 38 miles from the top of Haleakala Crater National Park to Paia on custom bicycles. Along the ride, experienced guides will stop at Maui's largest cattle ranch, protea farms and the cowboy town of Makawao for picture-taking and historical narration. The whole family can go along on this adventure which includes round-trip transportation from Kihei, Kaanapali or Lahaina, breakfast of fresh fruit and pastries and lunch at Kula Lodge. Call 879-3374.

•Clearwater Kayak Rentals provides two-hour guided tours through beautiful coral reefs in safe ocean kayaks. Use of snorkeling equipment also included in tour. Explore a part of Maui not normally seen. Call 879-6965.

•Capt. Nemo's Ocean Emporium, offers a snorkeling and scuba sailing excursion aboard the 58-foot catamaran The Sea-Smoke, daily 8 a.m.-1:30 p.m., to Lanai or other rarely-seen areas. Includes breakfast, buffet picnic lunch, marine life orientation, snorkeling instruction for beginners and snorkeling and scuba gear. High speed cruises available for certified divers as well as private charters. The store offers a complete line of rentals including underwater cameras. Corner of Front St. & Dickenson, Lahaina, 661-5555, 661-0429.

•Cruiser Bob's Rent-A-Bike, This world class adventure is the ultimate in pleasure coasting and scenic Island beauty. 38 miles of Maui's beautiful landscape and breathtaking vistas await you as you coast downhill from above the clouds at the 10,000 foot summit of the Haleakala Crater to the sands of the Pacific. This only on Maui adventure, includes round trip transportation, breakfast and lunch, a downhill cruise leader escort van and your downhill cruiser bike equipped with comfortable seats and mega brakes. Call 667-7717 for reservations or stop by the Lahaina Shores for more information.

•Hawaiian Reef Divers sails regularly on an introductory scuba dive, a three-hour boat cruise designed for the inexperienced with all equipment included. The shop, at 129 Lahainaluna Road (just off Front Street in Lahaina also rents snorkeling sets on a per day basis and offers a four-day scuba certification course. Call 667-7647.

•Jammin Jet Skis, near the junction of S. Kihei Road and

Paia academy students invited

PAIA
William D. Tavares

PAIA — There can't be too many people on Maui who have witnessed a presidential inauguration so when an entire class of students is invited to the inauguration, which will take place in January, that's news.

Yes, the five who comprise the senior class of the Maui Christian Academy (formerly Doris Todd Christian School) have been invited to the presidential inauguration by the Election '84 Inaugural Conference. The seniors and their sponsor will spend four days in Washington, D.C., attending seminars such as "Women in Politics", "Protecting the President" and "Inaugurating America's President: History, Tradition, Ceremony."

Highlights of the trip will include a tour of the city, a Kennedy Center performance, two black-tie affairs and, of course, the inauguration ceremony and parade.

The students are currently studying American government and feel very honored to be a part of this once-in-a-lifetime opportunity. The students, their sponsor, and their parents will be very busy from now until January raising funds for the trip.

The seniors are: Lisa Rodden, Lahaina; Germaine Teruya, Kula; Alberto Patricio, Haiku; Andy Lawrenson, Paia; and Mark Brown, Lahaina. Their sponsor is Debra Clouser.

□ □ □

Paia School starts the 1984-85 year with 166 regular and 59 special education students for a total enrollment of 225.

Five new teachers have joined the staff: Pamela Iwanaga, Karen Kito and Mare Linglois, special education; Jan Tachikawa, science; and Jane Tesoro, part-time.

Serving as officers of the student body are: President Edward Zane, Vice President Marilyn Toro, Secretary Sherilyn Corpuz and Treasurer Robbie Fujimoto.

Principal Akio Hanano recently presented 3rd grader Carly Quinsaat with a letter of commendation for returning a wallet she had found and which contained a considerable sum of money and important cards. Carly is the daughter of Mr. and Mrs. Stephen Dutro.

□ □ □

The Pacific has been especially beautiful lately. Having lived at Kuau Bay for all 62 years of my life makes me sensitive to the changes that have occurred in the ocean over the years.

Fortunately, I have not noticed any serious pollution of the water. In fact, the ocean is far cleaner now that it was a few decades ago, when the sugar plantations dumped their excess water into the sea. It is to their credit that they no longer do this.

One marine creature that I miss is the Hawaiian green sea turtle or honu. During the winter months up until 20 or so years ago, two or three of them would take up residence in the bay and pop their heads out of the water every few minutes. Because of man's relentless pursuit of this animal it has become an endangered species and is now protected by law.

Maui News Sept. 18, 1984

Ammonia Fears Ended at Kahului

By Stephanie Castillo
Star-Bulletin Writer

KAHULUI, Maui — A leak of non-toxic ammonia water from a 70,000-gallon storage tank near Kahului Harbor's Pier 1 was stopped last night but not before it forced the evacuation of nearly 2,000 people earlier in the day.

Officials estimated that some 15,000 gallons of 10 percent strength aqua ammonia had leaked. Much of it was channeled into a nearby pond by firefighters who used bulldozers to create a sand dike around the pond.

The only injuries reported were to firemen who suffered skin burns when they came in contact with the chemical.

The leak occurred in a pipe between the tank and the shut-off valve while the chemical was being transferred from a boat for use by Maui Land and Pineapple Co.

Although aqua ammonia is commonly used as a fertilizer, it is being used by Maui Land and Pineapple Co. to demineralize pineapple syrup squeezed from pineapple skins, according to the company's manager, Bob Woods.

Woods, who questioned the necessity for the evacuation, said the aqua ammonia concentrations in the spilled liquid were comparable to window cleaners sold in stores.

THE EVACUATION area, which extended over a 1-mile radius from the spill, was declared safe shortly after 2 p.m. by Civil Defense officials and Mayor Hannibal Tavares. It included pre-schools, an elementary school, Maui Community College, three hotels, three shopping centers.

The only area that continued to remain off-limits was in the immediate area of the leak.

Wailuku and Paia firemen and personnel from Brewer Chemical Corp., which owned the tank, last night continued their efforts to stop the leak and empty the tank's contents into an adjacent tank and tank trucks provided by local sugar companies.

Several other leaks that developed in pipes used in the transfers continually slowed efforts until the operation was completed at about 8 p.m.

During the emergency, about 500 people used the Maui War Memorial Gym in Wailuku as a shelter.

SUSAN MONIZ and Joanne Auwae, residents of a Kahului apartment complex, came to the shelter after security guards banged on their doors telling them of the emergency. They said they were scared because they didn't understand the nature of the emergency.

Workers at the three hotels evacuated had waited patiently to be told they could return to work. Most seemed concerned that their chores had been interrupted.

In other areas of the gym, preschoolers napped or played while awaiting their parents, who were notified about the evacuation by local radio stations.

Police, firemen and other workers used oxygen masks in the operation but several suffered nose and eye irritations.

Firefighters had to continually hose down themselves and Brewer Chemical workers as their protective clothing came in contact with the chemical.

Before and during the evacuation, some residents called the Civil Defense office in Wailuku saying they could smell the vapors.

However, Tai Kahn of Brewer Chemical's Maui office said that would be unusual since ammonia is a very light gas that evaporates quickly into the atmosphere.

KAHN SAID the liquid was spilling at the rate of about five gallons a minute when the leak was discovered by a Brewer Chemical worker at about 7 a.m. That rate varied, mostly increasing, after firefighters, who arrived by 7:30 a.m., tried unsuccessfully to cap the leak, he said.

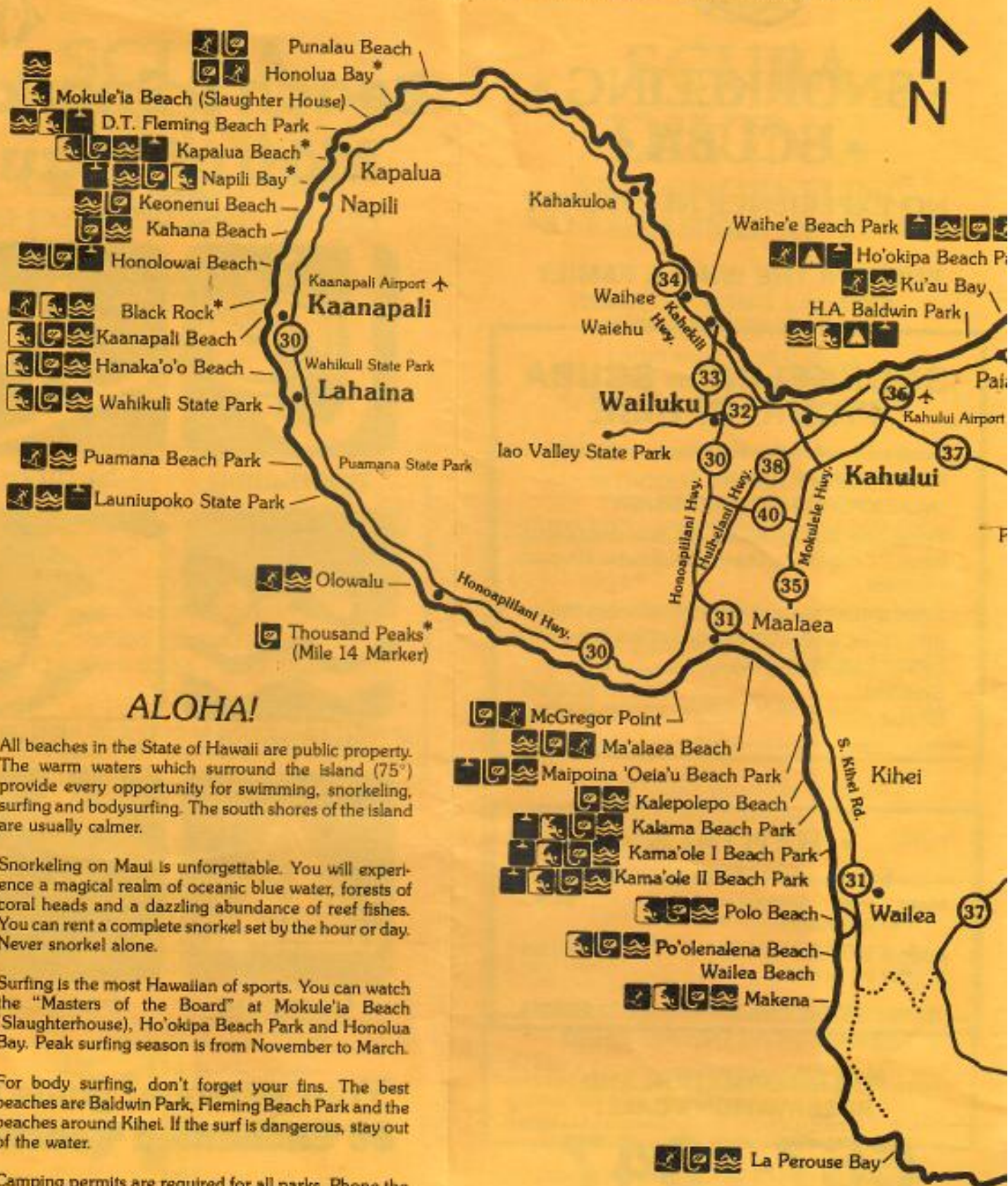
When the evacuation was ordered, Maui Civil Defense officials and Tavares had thought the spill was of ammonia concentrations of almost 50 percent.

AWAII

CHEMICAL LEAK—Workers clean up ammonia water spilled from a Brewer Chemical Corp. tank at Kahului harbor yesterday. The leak forced the temporary evacuation of 2,000 people from the area. —Star-Bulletin Photo by Stephanie Castillo.

The Best Publishing Co.

***Maui's 5 Most Recommended Snorkeling Spots**



ALOHA!

All beaches in the State of Hawaii are public property. The warm waters which surround the island (75°) provide every opportunity for swimming, snorkeling, surfing and bodysurfing. The south shores of the island are usually calmer.

Snorkeling on Maui is unforgettable. You will experience a magical realm of oceanic blue water, forests of coral heads and a dazzling abundance of reef fishes. You can rent a complete snorkel set by the hour or day. Never snorkel alone.

Surfing is the most Hawaiian of sports. You can watch the "Masters of the Board" at Mokule'ia Beach (Slaughterhouse), Ho'okipa Beach Park and Honolua Bay. Peak surfing season is from November to March.

For body surfing, don't forget your fins. The best beaches are Baldwin Park, Fleming Beach Park and the beaches around Kihei. If the surf is dangerous, stay out of the water.

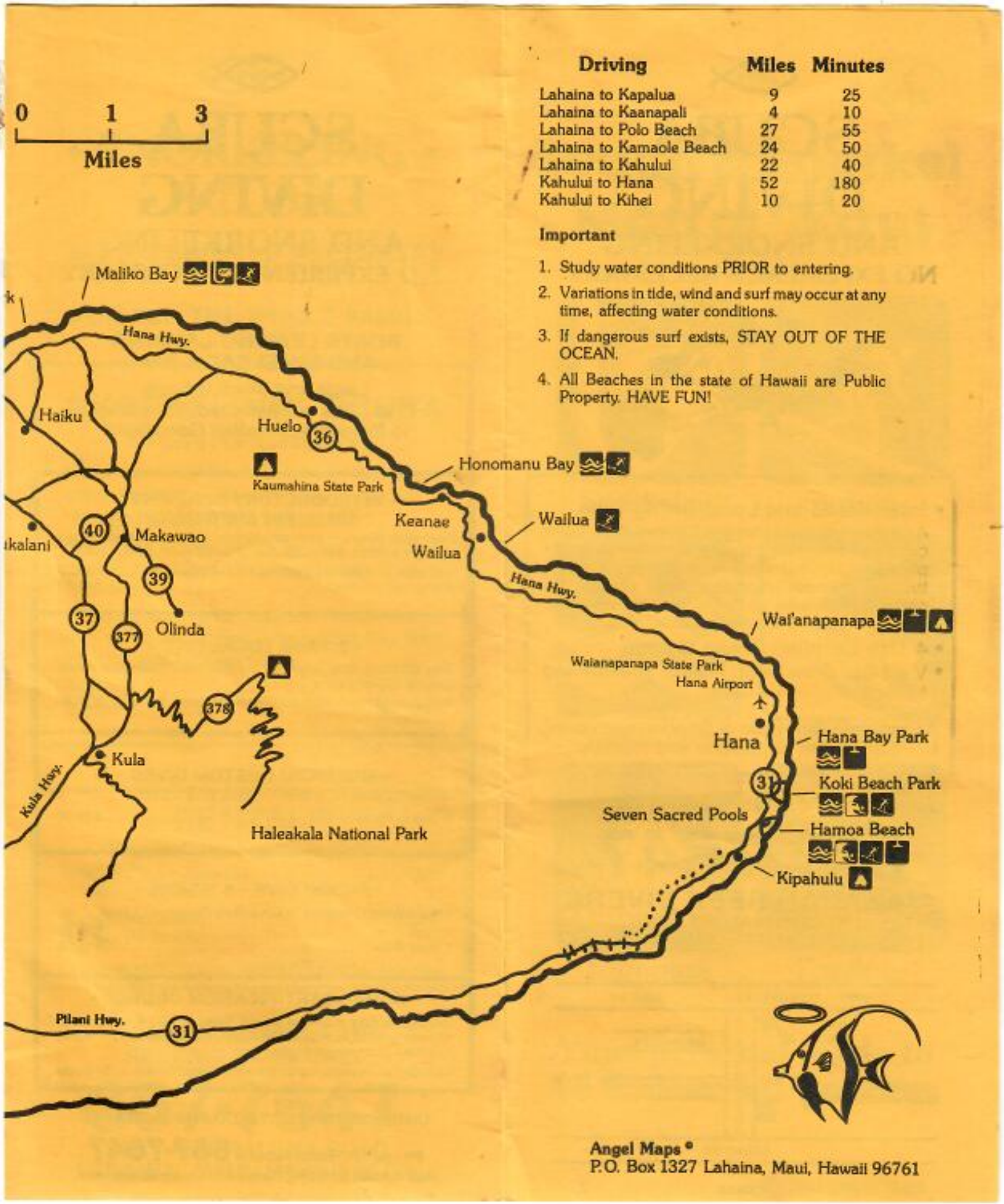
Camping permits are required for all parks. Phone the Parks and Recreation Department at 244-5514.

Mahalo and Enjoy!

Driving	Miles	Minutes
Lahaina to Kapalua	9	25
Lahaina to Kaanapali	4	10
Lahaina to Polo Beach	27	55
Lahaina to Kamaole Beach	24	50
Lahaina to Kahului	22	40
Kahului to Hana	52	180
Kahului to Kihei	10	20

Important

1. Study water conditions PRIOR to entering.
2. Variations in tide, wind and surf may occur at any time, affecting water conditions.
3. If dangerous surf exists, STAY OUT OF THE OCEAN.
4. All Beaches in the state of Hawaii are Public Property. HAVE FUN!



Angel Maps ®
P.O. Box 1327 Lahaina, Maui, Hawaii 96761

MAUI FILE

1985

To: George

From: John John

Subj: Telecon with Alvin Boteilho

The above called you on 7/16 from Maui. He was getting back to you per your request for additional information on turtle bones. He didn't have anything to add. He said something about "walking around a lot but was unable to find anything more"...since I didn't know the whole story, this statement was vague. However, he said he had gotten his information from a Mr. Silva, who got his information from DLNR, hence there was no more information to be had. Clear, huh?

He also said that there is definitely shooting at turtles going on at night behind the HECO plant. There was shooting on Sunday night (7/14)...police were called, but nothing came of it. I have passed this latter point on to Gene Witham per request of Alvin B.

P.S. I SAID YOU MAY CALL HIM BACK ON YOUR RETURN

Whitham

"David Marcial" - Maui Police said no such reports received.

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE

SEFC Galveston Laboratory
4700 Avenue U, Galveston, TX 77550

October 21, 1985

Mr. Gordon McCarthy
372 Front Street
Lakaina, Hawaii 96761

Dear Mr. McCathy:

Thank you for your letter of 11 October 1985 concerning your interest in rearing green turtles. Green turtles, Chelonia mydas, are reared commercially by the Cayman Turtle Farm (1983) Ltd., P. O. Box 645, Grand Cayman, Cayman Islands, British West Indies, managed by Dr. James Wood. However, such farming is prohibited in the U.S. by the Endangered Species Act of 1973. Only those possessing a U.S. Fish and Wildlife Service Threatened and Endangered Species Permit may possess sea turtles.

I suggest that you contact your local U.S. Fish and Wildlife Service office for details concerning sea turtle regulations. You may also wish to contact George Balazs, National Marine Fisheries Service, P. O. Box 3830, Honolulu, Hawaii 96812, for information about sea turtle tagging. I have enclosed a manual about rearing Kemp's ridley sea turtle, Lepidochelys kempi, in captivity. Thank you for your interest.

Sincerely,

Charles W. Caillouet, Jr., Ph.D.
Chief, Life Studies Division

Enclosure

cc:
NMFS - George Balazs
James Wood
F/SEC6 - E. Klima
C. T. Fontaine

GEORGE R. ARIYOSHI
GOVERNOR OF HAWAII

SUSUMU ONO, CHAIRMAN
BOARD OF LAND & NATURAL RESOURCES

EDGAR A. HAMASU
DEPUTY TO THE CHAIRMAN

DIVISIONS:
AQUATIC RESOURCES
CONSERVATION AND RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF AQUATIC RESOURCES
1151 PUNCHBOWL STREET
HONOLULU, HAWAII 96813

October 19, 1985

MEMORANDUM

TO: FILE

THROUGH: Alvin Z. Katekaru, Marine Section Chief

FROM: Skippy Hau, Maui Aquatic Biologist

SUBJECT: Excavation of Paia Sea Turtle Nest

On Friday, 18 October, Rene Sylva and I went to recover the eggs from a nest discovered on September 30th. Several high tides have reached the area of the nest and may have drowned some of the developing embryos.

Eighty-eight eggs, similar to ping pong balls, were recovered. They were then placed in a plastic garbage can with holes on the bottom and packed with sand.

Two of the eggs were randomly selected to determine development progress. The white/opaque eggs were broken to reveal a milky liquid; a light yellow yolk with the consistency of melted butter; and a developing embryo between one-half to one centimeter.

Nest excavation lasted from 16:30 to 17:00. The sand remained moist because of heavy rains during the past two days.

George Balaz of the National Marine Fisheries Service was contacted and informed of the turtle nest recovery.

Skippy Hau
SKIPPY HAU

xc: George Balaz

12/17/85 Call from Skippy Hau 244-4352
He took an egg from the top - live embryo found -
remaining yolk is about the size of a quarter.

MAUI FILE

1/27/86 Adv.

Kimo Harlacher of Lah)a's Rainbow Ranch when Harlacher married **Clarissa Stevens** at sunrise on the summit of the West Maui Mountains . . . Models **Christy Hassell Martin, Charlene Silva** and **Linda Chang** were in Hong Kong for a shopping spree when they were chased from the Imperial Hotel by a fire. Remarkably, when they and others left roomless by the fire went down the street to the Sheraton, they were "chased back onto the street" by security guards. But they knew about aloha at the Hyatt, which dispensed blankets and hot tea until the fire was out and the Imperial guests could go back □□□

TOWN SOUNDS: What were **John Wilson**, Hawaiian Telephone mgr. on Maui, and Bank of Hawaii exec **Mike Lyons** doing with their pictures in the top Japanese boardsailing magazine Hi-Wind? No, they haven't taken up the sport. They were attending a big party at the Maui home of the publisher, Mr. **Kurokawa** . . . Instead of the Sun Coast, maybe they should start calling the Kohala area of the Big Island the "Glitz Coast." With **Chris Hemmeter** at work on another tiff-tiff resort just across the 18th hole of the golf course, the interior designer for the Shores condo at Waikoloa is **Irwin Stroll** and Assoc. of Beverly Hills □□□

THE BOTTOM LINES: It sounds like the plot for a daytime TV soap dept.: Title of an entomology seminar at UH this afternoon is "Sex and Death in Crickets" . . . The 14 very healthy results of the first known hatching in Hawaii of the Olive Ridley sea turtle — an endangered species — are almost ready to go on display at Sea Life Park. The eggs were discovered on the north shore of Maui by state aquatic biologist **Skippy Hau.** Their nest was being eroded by large waves, so he took the eggs and they hatched under his house. Olive Ridleys are usually found in Latin America. **Steve Kaiser** of the park says it appears that a breeding pair made it to Hawaii together because it is unlikely that a hapai female could make the 2,000-mile voyage. The 3-wk.-old babies are about as big as a 50-cent piece and will be ready for public viewing in another three

"unique within the na[illegible]at religious commun-ty."

The new executive coordinators are the Rev. John Norris of the United Church of Christ and Patricia Mumford of Christ Church Uniting Disciples and Presbyterians.

While the council's ecumenical record is good, several goals remain, Mumford told the audience of about 120.

distrust, or at least ed conservative and church," she said. " effective ways to [illegible] their cultural herit stance, in developm faith supportive co expectation that we ship identically, but

Listen to tots, la

Lynne Halevi
Give kids "positive reinforcement"

By Robin Phillips
Advertiser Staff Writer

One of the best ways to allevi language skill problems facing [illegible] wai's kindergarten students is begin listening to those children.

And the earlier the better, [illegible] cording to speech and language sp cialist Lynne Halevi.

Halevi responded yesterday Department of Education repor that half of today's kindergart students started school with lags language development that threat their school careers and futures.

"We need to develop a curric lum to help these kids very ear on," she said. "If kids don't get t right stimulation, they can end functionally illiterate. They are risk of being branded emotionally or mentally retarded."

Halevi is a co-author of the Pe body Early Experience Kit, a pr gram for preschool and kinderg ten language development us throughout the Mainland and Canada.

During the 1970s, (then known

Social worker job

By Vickie Ong
Advertiser Staff Writer

State legislators continue to be frustrated by the state's problems with hiring social workers to handle child abuse cases.

The Legislature last year authorized 72 positions in Child Protective Services, but 43 are still vacant, including 18.5 social worker jobs.

At a legislative hearing last week, several state officials described a "multi-faceted" problem in attracting and retaining employees to do highly stressful, child protective work.

Franklin Sunn, director of the state Department of Social Services and Housing, said social workers don't want the jobs because there's not enough pay for the difficult work; the job is very stressful; caseloads are "intolerably" high; and they don't feel they have enough training.

Sunn said many child abuse treatment programs in the community are filled, and abusive families find themselves in an "absurd" situation

dren are returned. [illegible] able.

Workers experien "constantly being [illegible] Family Court" to [illegible] "taking flak" when said Ed Yoshimoto, a

The social services forts to recruit grad Hawaii School of S takers, Sunn said.

Sunn said UH sc have "sufficient kn child protective du changes" in the curr trained personnel.

Noreen Mokuau, a ty's School of Soc gives broad-based in cialize in child welfa and participating in ended in 1981 when

ADV. 1-31-86

DOTS ALL, FOLKS: Is there anyone whose vocation and avocation are as different as **Greg Pai's?** A vice president and chief economist at First Hawaiian Bank by day, Greg by night is a drummer who favors be-bop jazz . . . **Skippy Hau**, state aquatic biologist on Maui, says he can't take all of the credit for saving the Olive Ridley sea turtle eggs. Fishermen **Kenneth Oishi** and **Wayne Takakura** discovered the nest and notified Skippy. **Rene Sylva** kept an eye on the nest and helped Skippy move the eggs when high tides began to erode the nest. "The hatchlings would never have survived without their assistance," Skippy says. □ □ □

MOLOKINI SHOAL VESSEL LIST (08-21-86 Sh)

VESSEL NAME (CODE #)	NAME/ADDRESS/PHONE	
ADVENTURE I (22)	Brian Alan Taylor R.R.1 Box 377 #102	Owner 242-7683
AIKANE (25) Maui Clas:		Pre
ARGONAUT (1· Dive Maui		
CORAL SEE (!		
FIESTA (20) Sail Hawa:		
KAHALU'U (1! Underwate:		
KAIROS (18) The Dive !		
LAVENGRO (2(Maui Class		
MAKA KAI (5) Ocean Acti		
MAUI DIAMONI		
MELE KAI (21 Sail Hawai		
MERCRIDDA (1 The Dive S		

Department of Land and Natural Resources

DIVISION OF AQUATIC RESOURCES

Date: 08/29/86

To: Lew Consiglieri

From: Skippy Hau

Subject: List of Molokini Dive Operators and Diving Equipment & Supply Store List

Please make a copy for George Balazs. They contain almost all of the operators.

These lists must be frequently updated for changes. I try as often as I can.

If you have any questions, give me a call.

Skippy.

I'm also trying to make a list of dive operators but don't hold your breath.

MOLOKINI SHOAL VESSEL LIST (08-21-86 Sh)

VESSEL NAME (CODE #)	NAME/ADDRESS/PHONE	
ADVENTURE I (22)	Brian Alan Taylor R.R.1 Box 377 #102 Wailuku, HI 96793	Owner 242-7683
AIKANE (25) Maui Classic Charters, Inc.	Peter C. Jones P.O. Box 1221 Wailuku, HI 96793	President 879-2307(B) 242-7871(H)
ARGONAUT (14) Dive Maui, Inc.	Leslie Sternberg Lahaina Market Place Lahaina, HI 96761	Owner 667-2080(B)
CORAL SEE (8)	Jack Norcross P.O. Box 596 Lahaina, HI 96761	Captain 661-8600(B) 878-6771(H)
FIESTA (20) Sail Hawaii	Don Burns P.O. Box 573 Kihei, HI 96753	Owner 879-2201
KAHALU'U (19) Underwater Habitat	Jack M. Davis P.O. Box 11414 Lahaina, HI 96761	Owner 874-1270
KAIROS (18) The Dive Shop of Kihei	John C. Phipps 1975 S. Kihei Rd. Kihei, HI 96753	Owner 879-5172(B) 879-5168(H)
LAVENGRO (26) Maui Classic Charters, Inc.	Peter C. Jones P.O. Box 1221 Wailuku, HI 96793	President 879-2307(B) 242-7871(H)
MAKA KAI (5) Ocean Activities Center	David J. Manner Wailea Town Center Wailea, Maui, HI 96753	Captain 879-4485(B) 879-1721(H)
MAUI DIAMOND (16)	Peggy & David Ventura Jr. 226 Mahie Pl. Kihei, HI 96753	Owners 879-9119
MELE KAI (21) Sail Hawaii	Don Burns P.O. Box 573 Kihei, HI 96753	Agent 879-2201
MERCRIDDA (17) The Dive Shop of Kihei	John C. Phipps 1975 S. Kihei Rd. Kihei, HI 96753	Owner 879-5172(B) 879-5168(H)

VESSEL NAME (CODE #)	NAME/ADDRESS/PHONE	
NO KA OL IV (7) Ocean Activities Center	James M. Housh 3750 Wailea Alanui D-2 Wailea, HI 96753	Capt./Manager 879-4485(B) 879-6683(H)
NOMAD (12 & 23) Lahaina Divers, Inc.	Peter Hilley 710 Front St. Lahaina, HI 96761	Captain 667-7496(B) 667-6787(H)
Lahaina Divers, Inc.	Blain Roberts 162 Lahainaluna Rd. Lahaina, HI 96761	President 661-5093(B)
OUTRAGE (29) Hawaiian Watercolors	Ed Robinson P.O. Box 616 Kihei, HI 96753	Owner 879-3584(B)
PILIALOHA (13) Aquatic Charters of Maui	Jim & Robyn Friend 132 Kupuna St. Kihei, HI 96753	Owners/Captains 879-0976(B)
PRINCE KUHIO (6 & 27) Maui-Molokai Sea Cruises	Mike Peavy P.O. Box 516 Kahului, HI 96732	Captain 242-8777(B) 244-1998(H)
RELIANT (11 & 24) Lahaina Divers, Inc.	Peter Hilley 1668 Aa St. Lahaina, HI 96761	Captain 667-7496(B) 667-6787(H)
Lahaina Divers, Inc.	Blain Roberts 162 Lahainaluna Rd. Lahaina, HI 96761	President 661-5093(B)
SEA DIVER (28) Hawaiian Watercolors	Ed Robinson P.O. Box 616 Kihei, HI 96753	Owner 879-3584(B)
M.V. SEA SPORT (9) (Paxton Enterprises, Inc.)?	Dave Adams 380 Dairy Road Kahului, HI 96732	Operations Manager 879-3318(B) 879-4196(H)
SKIP JACK II (3) Scuba Schools of Maui	Rod Quam 1000 Limahana Pl. Lahaina, HI 96761	General Manager 661-8036(B) 667-7500(B)
SUNDANCE (10)	Ana M. Martin P.O. Box 12491 Lahaina, HI 96761	Owner 667-2842

DIVING EQUIPMENT AND SUPPLY STORES (8/29/86 Sh)

CAPT. NEMO'S OCEAN EMPORIUM
Deborah Hall, Marketing Rep.
700 Front St.
Lahaina, HI 96761
Ph.#661-5555

CENTRAL PACIFIC DIVERS
Jane Cambouris
780 Front St.
Lahaina, HI 96761
Ph.#661-8718

DIVE MAUI, INC.
Leslie Sternberg
Lahaina Market Place
Lahainaluna Rd.,
Lahaina, HI 96761
Ph.#667-2080

THE DIVE SHOP
P.O.Box 917
1975 South Kihei Rd.
Kihei, HI 96753
Ph.#879-5172

HAWAIIAN REEF DIVERS
C. James Bellamy/ Vivien Bellamy
129 Lahainaluna Rd.
Lahaina, HI 96761
Ph.#667-7647
#667-6002 (evening)

HONSPORT
Kaahumanu Center
Kahului, HI 96732
Ph.#877-3954

LAHAINA DIVERS, INC.
Capt. Peter Hilley
710 Front St.
Lahaina, HI 96761
Ph.#667-7496

LAHAINA FISHING SUPPLY & MARINE HARDWARE
Fred Uggla, Proprietor
Lahaina Shopping Center
Lahaina, HI 96761
Ph.#661-8348

MAUI DIVE SHOP
Azeka Place
P.O. BOX 1018
Kihei, HI 96753
Ph.#879-3388

MAUI DUTCH BOY PAINTS
841 Alua St.
Wailuku, HI 96793
Ph.#244-9139

NEW MAUI FISHING SUPPLY
Raymond Saito
51 Market St.
Wailuku, HI 96793
Ph.#244-3449

OCEAN ACTIVITIES CENTER
Wailea Shopping Village
3750 Wailea Alanui D-2
Wailea, HI 96753
Ph.#879-4485

OOKA SPORTING GOODS
92 Market St.
Wailuku, HI 96793
Ph.#244-0011

PAXTON ENTERPRISES, INC.
Carol L. Hasson, General Manager
Kihei Sea Sports
Kihei Town Center
Kihei, HI 96753
Ph.#879-1919

SCUBA SCHOOLS OF MAUI
Don Arnold/ Rod Quam
1000 Limahana Pl.
Lahaina, HI 96761
Ph.#661-8036
Ph.#667-7500

SKINDIVING MAUI INC.
2411 Kihei Rd.
Kihei, HI 96753
Ph.#879-1502

VALLEY ISLE DIVERS
36 Keala St.
Kihei, HI 96753
Ph.#879-3483

WOOLWORTH F.W. Co.
Maui Mall Shopping Center
Kahului, HI 96732
Ph.#877-3934

VESSEL NAME (CODE #)	NAME/ADDRESS/PHONE	
WAILEA KAI (4) Ocean Activities Center	Denis De Rochemont 191 N. Kihei Rd. Kihei, HI 96753	Captain 879-4485(B) 879-5772(H)
-- (Islander 22) (2) Mike Severns Scuba Diving	Mike Severns P.O. Box 627 Kihei, HI 96753	Owner/Operator 879-6596
-- (AMF Robalo) (1) Custom Dive Service	Jared R. Simmons * P.O. Box 90 Makawao, HI 96768	Captain 572-0245(B)

-- indicates no vessel name

* Jared Simmons dives on the backside

COPY TO BILL

2/17/84

ALOHA GENE:

ENCLOSED IS A CHART OF OUR "CRITTER" (TURTLE) OBSERVATIONS AS PROMISED. I HOPE THIS INFORMATION IS OF SOME HELP TO YOUR TURTLE EXPERT. "CRITTER" WATCHING BECAME QUITE AN OBSESSION FOR MANY OF US AT THE PIKAKE AND VICINITY.

FIRST, I SHOULD PROVIDE SOME BACKGROUND INFORMATION AND EXPLANATION OF THE NOTATIONS MADE ON THE CHART.

- OBSERVING TIME: SPAN OF TIME WHEN ONE OR MORE OF THE PRINCIPLE OBSERVERS WERE PRESENT (MYSELF, LANE REYNOLDS A-3, PIKAKE, OR MY WIFE BARBARA).
- NO. OF SIGHTINGS: EMERGENCES (HEADS, SIDE VIEWS, etc.).
- ESTIMATED NO. OF "CRITTERS": IF TWO HEADS SEEN SIMULTANEOUSLY = 2; IF ONE IN ONE DIRECTION AND ANOTHER A FEW SECONDS LATER 100 YDS, OR SO APART IN ANOTHER DIRECTION = 2; A SINGLE SIGHTING WOULD BE IF THERE WAS NO FOLLOW-UP BY THE SAME INDIVIDUAL

- Weather + water conditions, etc. — SURF quiet = wave action nil; or wave action medium or high; surface — glassy, shiney, metalic; surface — pebbly = confusing bumps or ripples, difficult for observation; also recorded high, medium or low tide as noted.

Incidental notes: LOCAL FISHERMEN SAY THAT THEY HAVE BEEN SEEING TURTLES REGULARLY AND ONE HEARSAY REPORT INDICATED THAT ONE TURTLE HAD BEEN DRAGGED ASHORE SOMEWHERE NEAR THE PAPAKEA OR MAUI SANDS ABOUT 3-4 WEEKS AGO.

— GENERAL OBSERVATIONS:

THE TURTLES APPEARED (ALMOST) EVERY MORNING ON SCHEDULE BETWEEN THE TIMES NOTED BUT NEVER SEEN ABOVE SURFACE, ON BEACH, OR ELSEWHERE, DURING THE DAY. THEY WERE NEVER SEEN (BY US) ARRIVING OR LEAVING. Occasionally we had SIDE VIEWS + THE "critters" appeared TO BE NO MORE THAN 3'-4' in LENGTH. THEY SEEMED TO

(over)

"CRITTER" (TURTLE) OBSERVATIONS
PIKAKE APTS., HONOKOWAI, MAUI.
JAN. 10, 1984 THRU FEB. 12, 1984

DATE	OBSERVATION TIMES	NO. OF SIGHTINGS	EST. NO. OF CRITTERS	WEATHER AND WATER CONDITIONS + GENERAL REMARKS
1/10/84	0630-0730	3-4	1+	WATER A LITTLE MURKY-CHOPPY SEAS FIRST SIGHTINGS OF UNKNOWN "CRITTERS"
11	0630-0740	3-4+	1+	UNKNOWN WATER-WEATHER EXCEPT SUNNY A.M. - CALLED FRED BALL
12	0630-0800	—	—	RAINY - FRED BALL HERE
13	0630- ?	3 or MORE	2+	BILL STREETER HERE. OVERCAST.
14	0630-0800	3 to 4	3	OVERCAST + CLOUDY - GLASSY CALM SEA.
15	0630-0800	6-8	3+	SHOWERS A.M. - SEA GLASSY, CALM
16	0630-0800	3-4	1+	STREETER WITH ZODIAC 0830-0930 CALM, GLASSY SEA
17	0630-0730	FEW ?	?	MOSTLY CLOUDY + OVERCAST A.M. HEAVY CLOUDBURST 0930 OR 10:00
18	0630-0800	Several ?	2+	scattered clouds
19	0645-0745	6-8	3+	clear + glassy surface
20	0630-0730	6-10	3+	ZODIAK - [redacted] WITH A m[redacted]? 0730-1000
21	0645-0730	4+	2	ZODIAK IN BEFORE DAYLIGHT HOT-CLEAR A.M. - WATER PEBBLY A.M. POOR VISIBILITY.
22	0630-0800	10-12	3 to 4+	Beautiful, clear, sunny, + GLASSY surface GREAT VISIBILITY.
23	0630-0830	25-30	6-8 (OR MORE)	HOT, CALM A.M.
24	0630-0745	6-8	3+	SEA-HIGH TIDE, some waves (MEDIUM) + PARTIALLY "PEBBLY" SURFACE
25	0655-0715	6-8	2+	POOR SIGHTING CONDITIONS - "PEBBLY" SURFACE - BUT GENERALLY WARM + QUIET WATER A.M.
26	0700-0745	3-4	2+	POOR VISIBILITY ON SURFACE, "PEBBLY", LIGHT SHOWER A.M.
27	0700-0755	5	2+	"PEBBLY" SEA - MEDIUM TIDE
28	0645-0800	0	—	PARTLY GLASSY, GOOD VISIBILITY
29	0645-0745	0	—	RAIN SHOWERS NIGHT + EARLY A.M. WATER - NO EXPLANATION FOR NON-SIGHTINGS
30	0645-0800	3	1 or 2	GOOD SURFACE VISIBILITY - MOSTLY GLASSY
31	—	—	—	ANNIVERSARY #34 - WENT ON AKAMAI VAN TOUR AROUND EAST MAUI
2/1/84	0645-0745	10-12	3+	glassy surface, calm, mid-tide
2/2	0645-0745	5-6	2+	SURFACE CHOPPY - "PEBBLY" - HEAVY WIND + RAIN DURING NIGHT
2/3	0645-0800	5	2+	HIGH TIDE, BIGGEST WAVES SINCE ARRIVAL. ROUGH SEAS, WIND, CLEAR

DATE	OBSERVATION TIMES	NO. OF SIGHTINGS	EST. NO. OF "CRITTERS"	WEATHER AND WATER CONDITIONS + GENERAL REMARKS
2/4	0645-0745	8-10	3+	glassy surface, HIGH TIDE, BIG WAVES CLEAR SKIES, HOT, CLEAR, BREEZY A.M.
/5	0700-0800	6-8	3+	SURF HIGH, COOL, SOME BIG WAVES otherwise glassy surface
/6	0700-0800	5	2+	HIGH surf — LARGE waves RAIN to ABOUT 0830
/7	0645-0800	5	3+	HIGH TIDE — LARGE waves — Surface FAIRLY smooth — GOOD VIS. — sunny, clear A.M.
/8	0645-0800	10-11	5+	HIGH TIDE — WAVES MED. — FAIRLY GOOD SURFACE VIS. sunny - mostly clear A.m.
/9	0630-0800	5	2+	ANOTHER SIGHTING AT 0850 + ANOTHER AT 0900 - SEA "PEBBLY" - small waves - med. tide — space shuttle at about 0630
2/10	0645-0730	8-10	4+	SURFACE GLASSY — SUNNY, HOT to 3:00 P.M.
/11	0645-0730	15-20	8-10	PLACID, CALM SEA, GLASSY — HOT — A.M.
/12	0645-0800	1 (ONLY)	1	smooth, quiet sea + a bit PEBBLY SURFACE

ADDED ATTRACTIONS:
space shuttle —

FEB. 7 — space shuttle at about 0620-0650

FEB. 8 — space shuttle ~~also~~ at 0624 — FEB. 8

FEB. 9 — ABOUT 0630

FEB. 10 — No shuttle (?)

FEB. 11 — Landed AT Canaveral

Pikake
condo.
669-6086

Postcard
View of
Apartments
at Honokowai,
Maui

Anne B. Appleby
2406 Delphi Rd SW
Olympia, Wash. 98502

Dear Mr. Balazs, June 14, 1980

I was very glad to get your letter and forms a few months ago and I just hope you have not given up on me yet. I put the matter aside until I could thoroughly treat it without the interruption and pressure of school responsibilities. Graduation has finally passed and a major research project completed and I would now like to present you with whatever turtle information I ~~could~~ could dig up.

First of all, the map you sent stops just short of the area in which we spotted the majority of the turtles. Our camp, Camp Pecusa, is located just east of Hehili Pt, some ¼ miles or less. We conducted most of our work directly adjacent to camp as far out as aprox ¾ miles offshore, over up to 85' of water.

It seems I have lost the forms you sent so I will merely list the sightings I have found from my own journal and that of Dr Dave Milne, our faculty on the Hawaii program. He is a Marine Biology professor here at the Evergreen State College ~~and~~ as well as a professor for a number of related subjects.

The only species of turtles sighted by any of our group was the green turtle. None of the students or faculty were doing specific studies on the turtles and thus no exceptionally detailed accounts were taken - mostly records of daily sightings - location, date, and sometimes size and behavior. Most of us were unfamiliar with how to descriminate by sex and thus few details were included on that. Dr Milne judged ♀'s by the shortness of their tail.

General impressions were that quite a large colony of these turtles frequented the outer regions of the Olowalu reef. Sightings of up to 10-12 individuals were made at one time, usually counted by shells seen floating on the water's surface. I have no dates for these sightings. Individuals of all ages were sighted. The dates of all sightings included here are in February which might be a reflection of the group's activities at that time.

We were doing more general orientation and survey work on the reef at that time and were much more open-eyed to life around us. The last half month in camp (beginning of March), our attention was much more closely focused on specific study projects. Especially with SCUBA, it is easy to block off views of your general surroundings when you are closely zeroed in on a smaller area or detail.

You asked, in your letter, for a copy of any study our group produced. We actually did not conduct any group study except a general transect study of the width of the reef adjacent to the camp. I do not have a copy of these results but could surely come up with one if you are interested. Otherwise, the students worked on individual or small group projects on a variety of different topics or aspects of reef life. I personally worked with three other people to thoroughly record the present ecosystem in a section of P. compressa in forty-five feet of water. Our purpose was to accumulate some good baseline data which could be used for future comparative studies on the reef. We hoped this could be a first step in an effort to monitor the condition of the reef on a regular basis as this has never been done before.

I hope this information has been a help to you. I appreciate our contact in Hawaii and sorely miss those islands now that I am back on the mainland. The volcano has attracted great cloud cover and since its first eruption three weeks ago, we have not seen the sun once! Since my return, I have been studying invertibrate growth on artificial reefs in the South Puget Sound via SCUBA. My final report should be published in several months. You complained of the cold water at Kihole Bay !!! ... Do you know of any studies being conducted on artificial reefs on the islands now? I would very much like to make contact with people involved in that area for comparative information. I have hopes of returning to the Hawaii within the next two years and sharing information

and work with people involved in marine research if I can.

I hope all is going well for you and that you can use the information here. I hope to hear from you sometime if and when you have time to drop a line.

Thanks very much.

Sincerely,

Anne B. Appleby

MAUI FILE

BISHOP MUSEUM
1525 BERNICE STREET • P.O. BOX 19000-A • HONOLULU, HAWAI'I • 96817 0916 • (808) 847-3511

28 January 1986

Mr. George Balazs
National Marine Fisheries Service
P.O. Box 3830
Honolulu, Hawai'i 96812

Dear George,

Just a quick note so that you can have the catalog numbers of the Olive Ridley hatchlings in writing.

Accession No. 1986.15

Catalog Numbers
BPBM 11095
BPBM 11096
BPBM 11097
BPBM 11098
BPBM 11099
BPBM 11100

Don't want any confusion on this!

Sincerely,

Gail

Gail Wine
Zoology

BERNICE P. BISHOP MUSEUM
HONOLULU, HAWAII, U.S.A.

The Museum has received from

Mr. George Balazs
National Marine Fisheries Service

the gift of

6 Olive Ridley turtles - hatchlings and embryos
(cat. no. BPBM 11095-11100)

Accession Number 1986.16

The Director and Trustees gratefully acknowledge your contribution to the collections.

Anita Manning
Registrar

27 February, 19 86

1/27/86 Adv.

Kimo Harlacher of Lah a's Rainbow Ranch when Harlacher married **Clarissa Stevens** at sunrise on the summit of the West Maui Mountains . . . Models **Christy Hassell Martin, Charlene Silva** and **Linda Chang** were in Hong Kong for a shopping spree when they were chased from the Imperial Hotel by a fire. Remarkably, when they and others left roomless by the fire went down the street to the Sheraton, they were "chased back onto the street" by security guards. But they knew about aloha at the Hyatt, which dispensed blankets and hot tea until the fire was out and the Imperial guests could go back □□□

TOWN SOUNDS: What were **John Wilson**, Hawaiian Telephone mgr. on Maui, and Bank of Hawaii exec **Mike Lyons** doing with their pictures in the top Japanese boardsailing magazine Hi-Wind? No, they haven't taken up the sport. They were attending a big party at the Maui home of the publisher, Mr. **Kurokawa** . . . Instead of the Sun Coast, maybe they should start calling the Kohala area of the Big Island the "Glitz Coast." With **Chris Hemmeter** at work on another tiff-tiff resort just across the 18th hole of the golf course, the interior designer for the Shores condo at Waikoloa is **Irwin Stroll** and Assoc. of Beverly Hills □□□

THE BOTTOM LINES: It sounds like the plot for a daytime TV soap dept.: Title of an entomology seminar at UH this afternoon is "Sex and Death in Crickets" . . . The 14 very healthy results of the first known hatching in Hawaii of the Olive Ridley sea turtle — an endangered species — are almost ready to go on display at Sea Life Park. The eggs were discovered on the north shore of Maui by state aquatic biologist **Skippy Hau.** Their nest was being eroded by large waves, so he took the eggs and they hatched under his house. Olive Ridleys are usually found in Latin America. **Steve Kaiser** of the park says it appears that a breeding pair made it to Hawaii together because it is unlikely that a hapai female could make the 2,000-mile voyage. The 3-wk.-old babies are about as big as a 50-cent piece and will be ready for public viewing in another three weeks□□□

"unique within the nat[illegible]al religious community."

The new executive coordinators are the Rev. John Norris of the United Church of Christ and Patricia Mumford of Christ Church Uniting Disciples and Presbyterians.

While the council's ecumenical record is good, several goals remain, Mumford told the audience of about 120.

distrust, or at least [illegible] ed conservative and church," she said. "[illegible] effective ways to in[illegible] their cultural herita[illegible] stance, in developme[illegible] faith supportive co[illegible] expectation that we [illegible] ship identically, but c[illegible]

Listen to tots, la[illegible]

Lynne Halevi
Give kids "positive reinforcement"

By Robin Phillips
Advertiser Staff Writer

One of the best ways to allev[illegible] language skill problems facing [illegible]waii's kindergarten students is [illegible] begin listening to those children.

And the earlier the better, [illegible]cording to speech and language s[illegible]cialist Lynne Halevi.

Halevi responded yesterday [illegible] Department of Education repor[illegible] that half of today's kindergart[illegible] students started school with lag[illegible] language development that threat[illegible] their school careers and futures.

"We need to develop a curric[illegible]lum to help these kids very ear[illegible]on," she said. "If kids don't get t[illegible] right stimulation, they can end [illegible] functionally illiterate. They are [illegible] risk of being branded emotionally [illegible] or mentally retarded."

Halevi is a co-author of the Pe[illegible]body Early Experience Kit, a pr[illegible]gram for preschool and kinderg[illegible]ten language development us[illegible] throughout the Mainland and [illegible] Canada.

During the 1970s, (then known [illegible]

Social worker job [illegible]

By Vickie Ong
Advertiser Staff Writer

State legislators continue to be frustrated by the state's problems with hiring social workers to handle child abuse cases.

The Legislature last year authorized 72 positions in Child Protective Services, but 43 are still vacant, including 18.5 social worker jobs.

At a legislative hearing last week, several state officials described a "multi-faceted" problem in attracting and retaining employees to do highly stressful, child protective work.

Franklin Sunn, director of the state Department of Social Services and Housing, said social workers don't want the jobs because there's not enough pay for the difficult work; the job is very stressful; caseloads are "intolerably" high; and they don't feel they have enough training.

Sunn said many child abuse treatment programs in the community are filled, and abusive families find themselves in an "absurd" situation [illegible] they have to get counseling before their chil[illegible]

dren are returned. [illegible] able.

Workers experien[illegible] "constantly being [illegible] Family Court" to [illegible] "taking flak" when [illegible] said Ed Yoshimoto, a [illegible]

The social services [illegible] forts to recruit gradu[illegible] Hawaii School of So[illegible] takers, Sunn said.

Sunn said UH soc[illegible] have "sufficient kno[illegible] child protective duti[illegible] changes" in the curr[illegible] trained personnel.

Noreen Mokuau, [illegible]ty's School of Soci[illegible] gives broad-based tr[illegible]cialize in child welfar[illegible] and participating in [illegible] ended in 1981 when [illegible]

George,
When you have time, I'd like to know how the survivors are doing Skip

Adv. 1-31-86

DOTS ALL, FOLKS: Is there anyone whose vocation and avocation are as different as **Greg Pai's**? A vice president and chief economist at First Hawaiian Bank by day, Greg by night is a drummer who favors be-bop jazz . . . **Skippy Hau**, state aquatic biologist on Maui, says he can't take all of the credit for saving the Olive Ridley sea turtle eggs. Fishermen **Kenneth Oishi** and **Wayne Takakura** discovered the nest and notified Skippy. **Rene Sylva** kept an eye on the nest and helped Skippy move the eggs when high tides began to erode the nest. "The hatchlings would never have survived without their assistance," Skippy says. □□□

SUMMARY OF EVENTS CONCERNING THE OLIVE RIDLEY (LEPIDOCHELYS OLIVACEA) TURTLE NEST FOUND IN PAIA, MAUI -- SEPTEMBER, 1985

by

SKIPPY HAU
Aquatic Biologist

DIVISION OF AQUATIC RESOURCES
Department of Land and Natural Resources
State of Hawaii

December 24, 1985

Summary of Events Concerning the Olive Ridley (Lepidochelys olivacea) Turtle Nest Found in Paia, Maui -- September, 1985

by

Skippy Hau, Aquatic Biologist

The following is a summary of events during the period September 30, 1985 through December 18, 1985 concerning sea turtle nesting found in Paia, Maui.

9/30/85
Monday

Mr. Wayne Takakura called the Wailuku office at 1445. He reported that Mr. Kenneth Y. Oishi, a Paia fisherman, observed a turtle nesting on a beach in Paia during the afternoon.

I visited the nesting area and marked the location. According to Mr. Oishi, the turtle was about 2½-feet in length. He initially thought the turtle was lost. It crawled up the beach and began digging. He watched the turtle nest and re-dug the nest to confirm that eggs were laid. Later, Mr. Oishi contacted Mr. Takakura who contacted us.

The nest was located 34 feet from two rocks placed as markers about the high water mark.

Mr. George Balazs of the National Marine Fisheries Service and Mr. Rene Sylva, a botanist at the Maui Zoo and designated Maui assistant were informed of the nest discovery. The next day I showed Mr. Sylva where the nest was. He lives about two house lots down from the nest. He helped check the beach for any further nesting activity and watched the tides to prevent the embryos from drowning.

10/17/85
Thursday

That evening I was contacted by Rene Sylva and George Balazs. Several high tides were reaching the area of the nest. Given the possibility that the embryos could drown from the saltwater, we were given permission to recover the eggs.

10/18/85
Friday

Mr. Rene Sylva and I went to recover the eggs from the nest. Approximately four high tides had already reached the nest. We dug down about 1½ to 2 feet before reaching the nest.

The clutch contained 88 eggs, similar in size to pingpong balls. Holes were poked in the bottom of a green plastic 20-gallon garbage can. The eggs were placed in the garbage can and packed with moist sand taken from the nest. The sand was extremely moist because of two days of heavy rain.

Two of the 19-day old eggs were randomly selected to determine the progress of development. The white-opaque eggs were broken to reveal a milky liquid; a light yellow yolk with the consistency of melted butter; and a developing embryo between one-half to one centimeter. The embryos were later sent to George Balazs for identification.

I kept the eggs at my house in Spreckelsville because due to prior commitments on a Kahoolawe re-vegetation project, Mr. Sylva could not watch the nest.

Based on the shell size, according to Mr. Balazs, they at first appeared to be hawksbill turtles (Eretmochelys imbricata).

During the month of December, we experienced several days of cold weather. With cooler temperatures, the eggs were expected to take longer to develop.

12/11/85 Wednesday — I removed one egg and checked for development. The embryo was 73 days old. The egg was white and turgid, unlike the soft wrinkled eggs that were excavated from the nest. It weighed 30.3 grams. There was a heartbeat of 76 beats per minute (19 beats in 15 seconds). Light did not penetrate when held near a bulb. The embryo was alive and a yellow yolk sac, the size of a quarter, still attached. The embryo was totally black in color. There were three ridges of bumps along the length of the dorsal side (these would later be used to help identify the species). The straight carapace length was 40 millimeters (total length was 64 mm).

12/14/85 Saturday — The first hatchling was discovered breaking through the sand at 0730. The second was seen after 0800.

12/18/85 Wednesday — George Balazs flew over to inspect and recover any hatchlings. Four hatchlings were crawling on top of the sand. Another seven were found at various depths of the nest.

He identified the turtles to be Olive Ridley (Lepidochelys olivacea).

The remaining 85 eggs in the clutch were accounted for and categorized into seven stages of development.

Seven Categories of Development

11	Hatchling
5	Live embryo still in egg with yolk
17	Turgid egg
18	No development
17	Fertile embryonic mortality
8	Half developed but dead
9	Advanced development but dead
85	Total eggs remaining in nest
+3	Analyzed for development
88	Total eggs in clutch

George Balazs transported the 11 hatchlings, 22 developing embryos, and samples of the dead embryos back to Oahu. The hatchlings are being held in captivity at Sea Life Park. Some of the dead embryos will be given to the Bishop Museum for their specimen collection.

LOWER PAIA - 20°55'N
156°23W

Beach in Paia where nest was found
(Kahului direction)

Beach where nest was found (Paia direction)

Four hatchlings crawling on sand

Recovered hatchlings

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center
Honolulu Laboratory
P. O. Box 3830
Honolulu, Hawaii 96812

December 22, 1985 F/SW2:GHB

Mr. Skippy Hau
Aquatic Biologist
Division of Aquatic Resources
P. O. Box 1015
Wailuku, HI 96793

Dear Skippy:

I am writing to commend you for the work you accomplished in rescuing the doomed clutch of turtle eggs laid at Paia, and then successfully incubating them at your home. Without your intercession, the eggs would clearly have been lost to storm surf and we would never have known that the nesting was by an olive ridley, Lepidochelys olivacea. As you are aware, this is the first such record for the Hawaiian Islands, although we are regularly documenting ridleys tangled in scraps of trawl net in our offshore waters.

At present there are 14 hatchlings alive at Sea Life Park. Twelve eggs are still being incubated here at our laboratory, and I feel certain that at least half of these will hatch. Considering that the clutch was originally washed over by waves for a day or two, it is a great credit that any hatched at all.

When decisions have been made by the Recovery Team and other proper authorities, I will let you know what we plan to do with the hatchlings when they are ready to be released.

Sincerely,

George H. Balazs
Zoologist

cc: E. C. Fullerton
W. G. Gilmartin
Recovery Team

G: Paia. Rid

NATIONAL MARINE FISHERIES SERVICE
HONOLULU LABORATORY
P. O. BOX 3830
HONOLULU, HAWAII 96812

Results of the olive ridley nest laid at Paia, Maui on September 31, 1985 and subsequently rescued from storm surf on October 18, 1985 for incubation in an artificial container.

Eggs hatched	31
Hatchlings dead shortly after hatching	13
Eggs with partially developed but dead embryos	
Early embryonic mortality	19
Mid-embryonic mortality	8
Late embryonic mortality	11
Eggs with no apparent development (presumably infertile)	19
Total Eggs in clutch	88
Percent eggs that hatched	35%
Hatchlings alive at Sea Life Park on 12-30-85	18

DATE HATCHLINGS WERE FIRST SEEN - 12-14-85 (75 DAYS)
DATE THAT LAST EGGS HATCHED - 12-25-85 (86 DAYS)

Maui News

Sections, 26 Pages 4/21/87 35 Cents

FRONT PAGE

The Maui News / DAVE DeLEON photo

ACCESS — Airports District Manager Jon Sakamoto points to the area of concern during an inter-agency meeting on how to block vehicle access to a currently undeveloped beach between the county's Kanaha Beach Park and Spreckelsville. The county and state are planning a joint effort to eliminate vehicle access.

4/7/87 A-5

Barge grounded on Maui reef

A barge went aground on a reef off Pakukalo Beach on Maui last night after its tow line snapped.

The barge went onto the reef about 100 yards off the beach at about 6:30 p.m. Police said the open-deck vessel had just cleared the mouth of Kahului Harbor when the tow line broke.

Maui police Sgt. James Evans said no one was hurt in the incident, and that survey work by salvage crews is expected today. He said the barge was operated by Holo Lani Inc., a Honolulu firm, and was carrying a load of sand for Ameron HC&D.

Joint effort to block auto access to beach in works

By DAVE DeLEON
Staff Writer

KAHULUI — The state and county are planning to work together to block vehicle access into a popular windsurfing beach, but they are not planning to put a fence on the beach.

Officials of the state Airports Division and the county Parks Department, in an inter-agency meeting held at the airport yesterday, agreed to block vehicle access along a stretch of sand between Kanaha Beach Park and the first homes in Spreckelsville.

Jon Sakamoto, Kahului Airport manager, said that he did not want to string chain-link fencing between the state property and the beach. Instead, he plans to post signs along that border, informing the public that the wooded area is state property, in the state conservation district and not open to public use.

The problem Sakamoto is trying to address is that the public has been using and abusing the area, trashing it and using it as an open toilet. Sakamoto said experience has shown, if left uncorrected, the situation would lead to a health hazard.

He also noted there are two archaeological sites in the area. One is an as-yet unsurveyed house site and the other is what appears to be a battle site because of the abundance of human bones.

The state is concerned about protecting both sites, he said.

The key to regaining control of the area, and probably the hardest thing to do, is to keep vehicles out of the area, Sakamoto said. Pedestrian access would be left open, he emphasized.

County Parks Director Marilyn Moniz-Kahoohanohano agreed that the county should participate in keeping vehicles out, but also expressed reluctance to set up a barricade. Sakamoto had been thinking about a barricade that would go right to the waterline.

Instead, they agreed the first step would be a properly designed barricade along the borders of the state property except where it abuts the beach.

Sakamoto said that enforcement will be a key ingredient in the vehicle ban. He called for a joint state-county police effort to make it work.

Moniz-Kahoohanohano said she has been getting a number of calls from the public protesting the proposed limited access into the area. The public generally does not understand it is illegal to drive on the county's beaches, she said.

During a County Council meeting on the topic of beach driving, also held yesterday in the County Council Chambers, Kathy Platt, a windsurfer who frequently uses the beach area in question, said that if the government has problems with recreational beach drivers or litterers, then it should go after them, and not block public vehicle access.

Platt explained that use of the beach allows the windsurfers in the area to spread out further. If they are blocked from driving into the area, the windsurfers will be packed into a more concentrated area, a situation more likely to cause accidents.

Platt also noted that the area in question is frequently used by windsurfing families with small children. The wind conditions are better for the keikis in that area.

244-3326

Maui residents really 'digging' dig

Project site 242-6531 Cathy Wittle

Volunteer for archaeological hunt

By Edwin Tanji
Advertiser Maui County Bureau

WAIHEE, Maui — Archaeologist David Clark held out a small black object to a gathering of students. "These are burned plant remains," he said. "Most people call it charcoal."

In a pile of rubble on a screen, Clark pointed out broken pieces of shells, fishbones, and more bits of charcoal.

"That's half a shell of a barnacle," he said. "Recognize this? It's a spine from a sea urchin. Each one tells us something important about what was going on here."

Clark is project director and chief public relations specialist for an archaeological dig being conducted in the pastures that are part of the old Waihee Dairy. The project involves a crew of archaeology students from Catholic University in Washington and the Maui Historical Society.

It follows up a survey of Waihee conducted by the Bishop Museum. The survey established there are midden (refuse) deposits throughout the area, indicating there has been human habitation at Waihee for hundreds of years, Clark said.

Advertiser photo by Edwin Tanji

Charmaine Moreau, a fourth-grader at Kahului School, examines the remnants of a fire pit in an excavation site.

The archaeological crew from Catholic University will hold a show-and-tell session tonight at 6 p.m. at St. Ann's Church in Waihee, Maui. Persons interested in attending should call the Maui Historical Society.

tools that indicate a very early period of habitation.

"Some stone tools are from a very early period. When Hawaiians first came to the area, their tools and techniques were a little different than they were in historic periods," he said. "They came from different islands and had different kinds of materials to work with.

"We think this is one of the earliest inhabited areas in Hawaii."

He's hoping the dating of materials will prove his guess to be correct. It'll help attract financial support for the project, he said. Clark and his crew of students and graduate students are on Maui as volunteers, paying their own way from Washington. It's hard to attract financing until you have something to show, he noted.

Prof. Anthropology
Dept. Anthropology
The Catholic Univ. of America
Wash DC 20064
(202) 635-5082

REDIBLE

ILY: FRIDAY, JUNE 19, 1987 &
SATURDAY, JUNE 20, 1987

esson Vegetable
Oil

12 cans

Carling Black Label
Handy Pack (Reg. or Light)
Beer

4.39

12 oz.

Clark's efforts are aimed in part at determining just how long humans have used the area. Materials collected over the past six weeks from as deep as seven feet under the surface will be tested for age within the next few weeks, he said.

But there's more to the digging than just finding human refuse from 800 to 1,000 years ago. Clark wants Maulans to know what he's doing, and even participate.

To that end, he's hosted more than 600 students and dozens of other interested persons at the Waihee site.

His presentation includes a discussion of how an archaeological dig is conducted to maintain the validity of any finds. More recently, as the researchers have gotten to lower levels, he's been able to show what they've found.

Essentially, they've found multiple levels of deposits with a sandy layer topping everything else that occurred within periods of Waihee's history.

The dig is winding up for this year, but Clark and his crew will be back again next May. He expects the digging to continue for about five years, or until development occurs on the site, whichever happens first. The land is owned by C. Brewer's Wailuku Agribusiness and has been proposed for a new golf course.

Based on initial findings, he's developing some opinions about what kind of activity occurred in years past. There are findings of blackened earth, indicating large open fires where ancient Hawaiians might have dried fish or other foodstuffs, he said.

There's what probably was an imu, as well as a light grayish soil that probably is the remains of a fireplace. A thin layer of rocks may have been a wall related to agriculture, he said.

"It was a place where people lived their everyday lives. What you see here is a little cluster of people living here and there, leaving small amounts of garbage behind when they moved on," he said.

He said there are indications the area was much wetter, with a meandering stream passing through and depositing layers of gravel. There are findings of

But he's even more enthusiastic about the community interest on Maui, he said. Several residents have volunteered to assist in the dig. There's 9-year-old Charmaine Moreau, a Kahului School fourth-grader. Charmaine came to the dig with her class and was so impressed she's been returning every day since school let out.

"I'm learning about the Hawaiians, what they did, finding the things they made," she said.

Charmaine can become excited about finding a fish bone and says her most exciting discovery was a large stone flake that probably came from a stone tool.

"To me, that's the greatest reward," Clark said. "It's the educational part. With young students, you know when they look down on the ground the next time, things will never be the same."

JOHN WAIHEE
GOVERNOR OF HAWAII

WILLIAM W. PATY, CHAIRPERSON
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DIVISION OF AQUATIC RESOURCES
70 S. HIGH STREET
Room 201
WAILUKU, HAWAII 96793
Phone (808) 244-2072

January 18, 1990

Mr. George Balazs
NOAA, National Marine
Fisheries Service
2570 Dole Street
Honolulu, HI 96822

Dear Mr. Balazs:

In our recent telphone conversation, we discussed a person requesting information on the diet of green sea turtles. His specific concern was the apparent depletion of wawae'iole (codium spp.) in the Kahului area. You may contact him at:

NO/ Commercial Turtle reports?

Leslie Shinyama
98 Alehela Street
Kahului, HI 96732
Phone: 877-5885 (nights only)

Also, concerning the acquisition of a turtle shell for educational purposes, I contacted the Fish and Wildlife Service (Carroll Cox) and hopefully be getting a mount or something from them.

Thank you for your assistance in these matters.

Sincerely,

Brooks Tamaye

Brooks Tamaye
Information Specialist

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center Honolulu Laboratory
2570 Dole St. • Honolulu, Hawaii 96822-2396

February 2, 1990 F/SWC2:GHB

Mr. Leslie Shinyama
98 Alehela Street
Kahului, Hawaii 96732

Dear Mr. Shinyama:

I am writing to respond to the request you made of Mr. Brooks Tamaye, which was forwarded to me, asking for information on the diet of the Hawaiian green turtle. I hope that the enclosed literature will be sufficient to answer your questions.

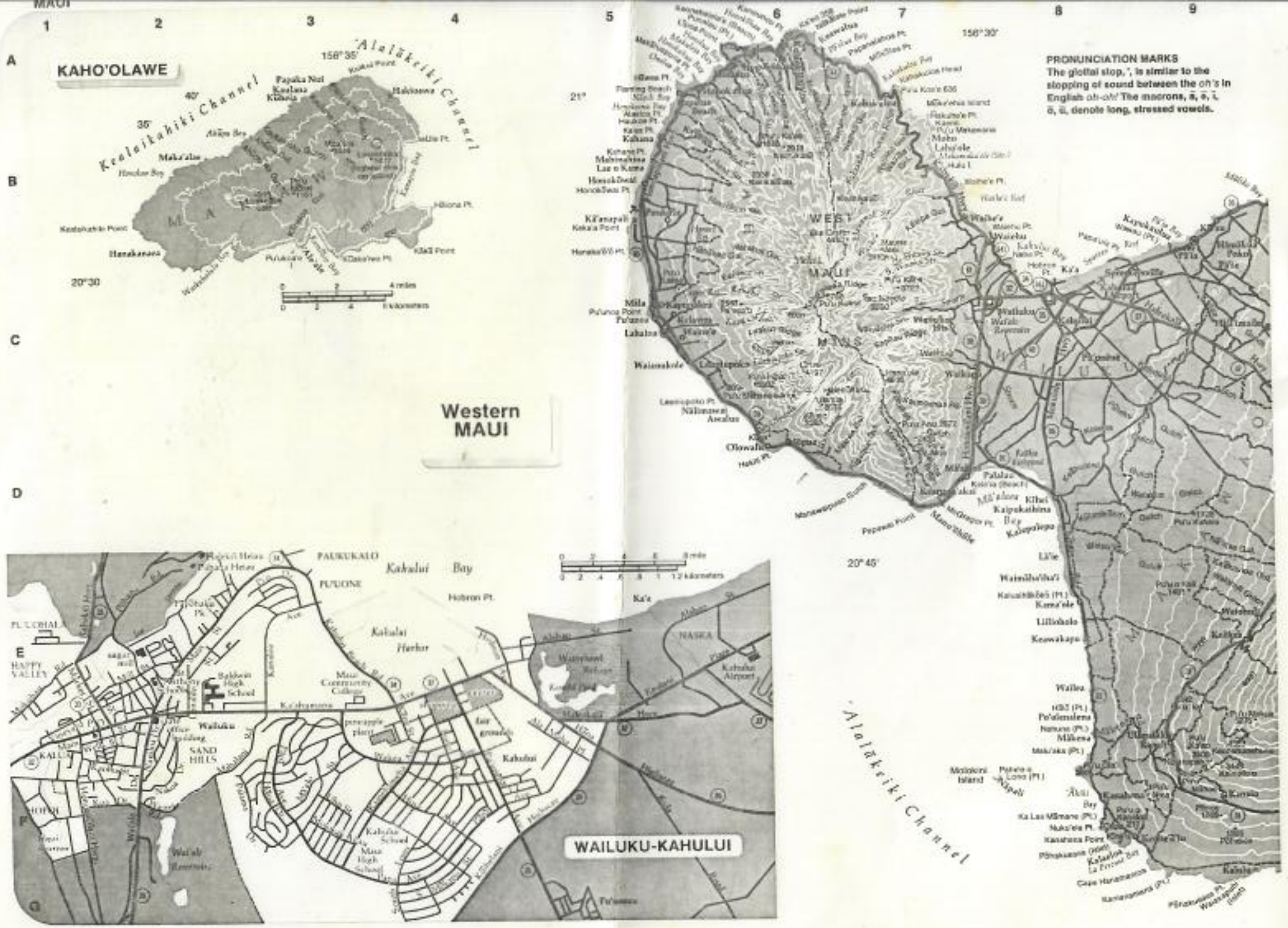
The apparent depletion of the green limu wawae'iole, (Codium) in Kahului Bay that you reported most probably represents seasonal variation, a common occurrence for algae. Nevertheless, I am very interested in your observations and would like to meet with you in person on my next field trip to Maui. I would like for you to show me sites where you have seen this change in abundance.

Thank you for taking the time to relay your concerns to Mr. Tamaye. I have your telephone number, so will call you when I know the exact date that I will be on Maui.

Sincerely,

George H. Balazs
Zoologist

cc: Brooks Tamaye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'Alalākeiki Channel
Papaka Nui
Kealaea
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Hakioawa
Akākū Bay
Maka'alae
Hinakau Bay
Kealaikahiki Point
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Pu'ukaulo
Kaulana Bay
Kālā Point
Hālona Pt.
Kanahakaha Point
Kukui Point
158°35'
40'
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WEST MAUI
Kahului Bay
Hobron Pt.
Kahului Harbor
PAUKUKALO
PU'UONE
HAPPY VALLEY
Wailuku
SAND HILLS
Maui Community College
Maui High School
Kahului
Kahului Airport
NAHA
WAILUKU-KAHULUI
PRONUNCIATION MARKS
The glottal stop, ', is similar to the stopping of sound between the oh's in English oh-oh! The macrons, ā, ē, ī, ō, ū, denote long, stressed vowels.
156°30'
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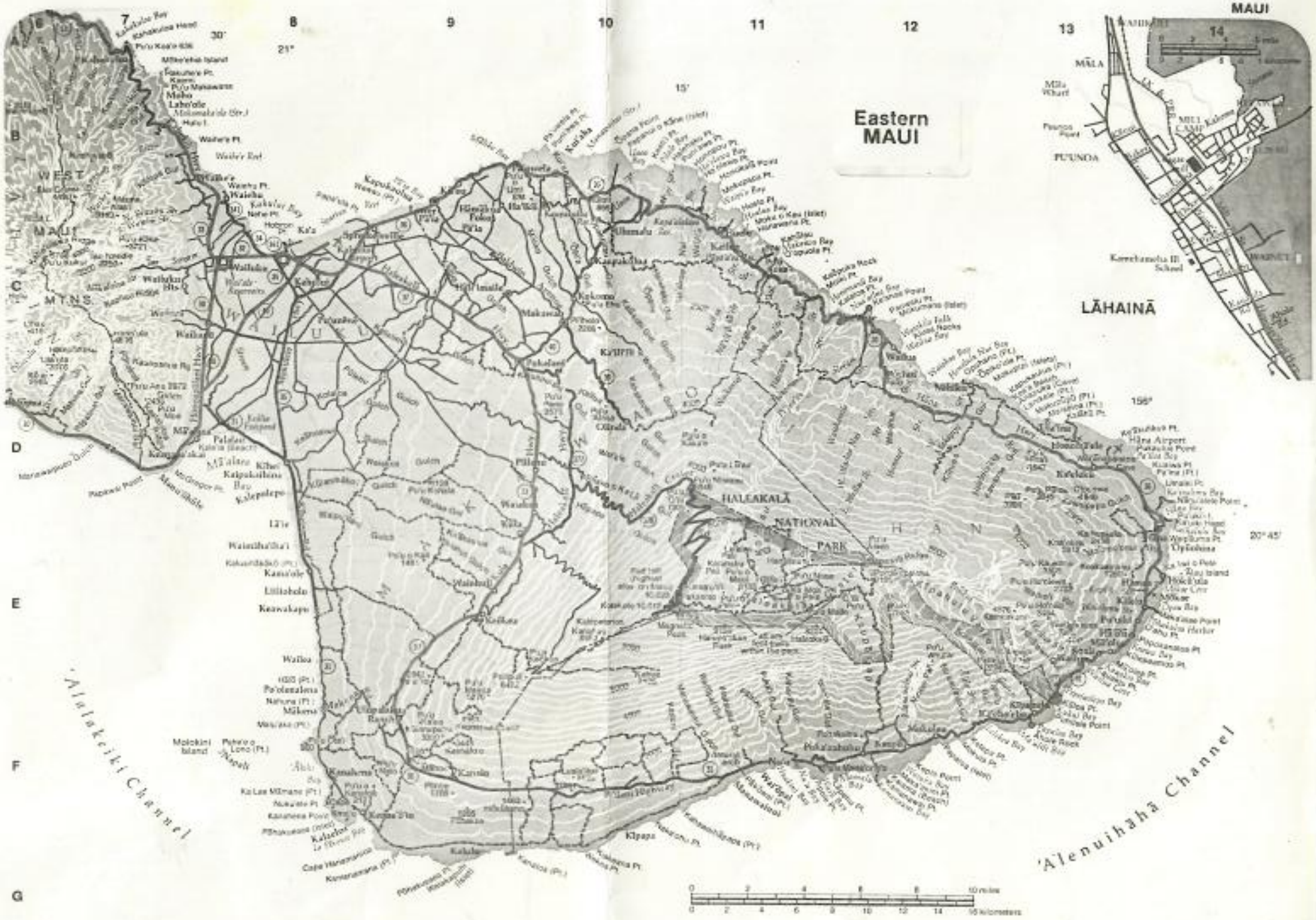
Alalākeiki Channel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Wailuku
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Māʻalaea Bay
Kīhei
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30'
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SHAVE ICE

Maui News
april 24, 1990

TOM STEVENS

After decades of licking and preening itself into presentability, Maui's "quality growth" industry has coughed up a couple of hairballs.

We speak of the delicious Sokan situation at Waihee and the grotesque collapse of something called VMS Realty Partners out of Chicago.

In the former instance, some jet-setting family of Tokyo golf millionaires who snapped up the old Waihee Dairy is now selling 100 "vacation cottages" to prospective members of the "Waihee Ocean Front Country Club."

The fact that this exclusive club and its 100 cottages haven't been approved yet is of little concern to the developers. They know they can bank on "The County That Says Yes."

You and I can bank on this: The Sokan project will be approved, the memberships sold and the "cottages" built before you can yell "fore!"

When the divots clear at Waihee, Maui will have its first North Shore hotel. And once that baby gets built, Bunky, you can kiss the whole Waihee to Hookipa coastline goodbye.

I know, I know. No condos or hotels are to be built on the North Shore — even ones masquerading as country clubs. That was a long-standing Elmer Cravalho deal that wasn't supposed to bend for C. Brewer, A&B or anybody else.

If you still think things don't bend on this island, check out "Waikapu Mauka." There a snappy new 36-hole golf course and luxury home sites for 100 more golf millionaires are being hewn from land that was supposed to stay in agricultural use.

Hey, no problem. The developers are marketing that little pretty as an "agricultural subdivision" because it's going to have a plant nursery.

Is that chutzpah? You gotta love it.

While these scams at least have a veneer of bleak hilarity, the VMS Partners situation can only be termed unfortunate.

It was unfortunate that the county didn't check for credentials when this pack of real estate lampreys wriggled up out of Lake Michigan and attached themselves to 670 prime residential acres near Maui Meadows.

The developers trotted their "Maui 670" project and a related Palauea Beach resort hotel around the ring a few times for The County That Says Yes, and savvy local investors swiftly climbed aboard.

The luster left that deal last month when Xerox Corp. came to its senses and scraped VMS from its side after taking a $400 million suck wound from the Chicago-based investment group.

Whether the Maui plungers recover any of their cash remains to be seen.

Meanwhile, we're left to wonder: Why do these mutant development schemes keep thriving on Maui?

For more than 20 years the local government has stamped "Grade A" on every misshapen pork butt of a project that came swinging through the ice house door. In its view, the only bad project was one being developed somewhere else.

"You wanna build huge pink shoreline condominiums shaped like doughnut halves and scrawled with petroglyphs? Sounds very lovely. Sign here . . .

"You say you wanna go 12 stories on Front Street, the project to resemble a grounded paddle-wheel steamer with a scale model of Mystic, Connecticut, alongside? *Love* the concept! Trim five floors and it's yours . . .

"Yo! Talk to me baby! What'd you bring us today? A 413-suite hotel at Honokowai to resemble a Mayan sun king's sarcophagus? Fabulous! Hey Lefty, we got any more beach left at Honokowai? Where is Honokowai, anyway? . . .

"Another mini-mall for Kihei? Sure, we can shoehorn another mall into Kihei. You can never have too many coral shops!"

In the pre-boom years, the county's craven courtship of any developer who could count to 10 and knot his own tie was justified by the fear that all those pink doughnuts and paddle-wheel steamers would beach themselves on some other island.

But after approving 9,999 projects — good, bad and ugly — in a row, fear is no longer a factor. The various local planning commissions, county councils and administrations have made the same Grade A stamping motion so long they can't do anything else.

No wait, that's not true. They did reject a project once. It was a huge "undersea observatory" planned for McGregor Point. They hemmed and hawed for weeks, then finally rejected the thing because its financing was shaky.

But they loved the concept.

April 30, 1990

George,

Brooks thought you might be interested in this. There was a man who dropped by our office last week asking about this same thing. We referred him to your office. Let us know if anything happens on this.

Van

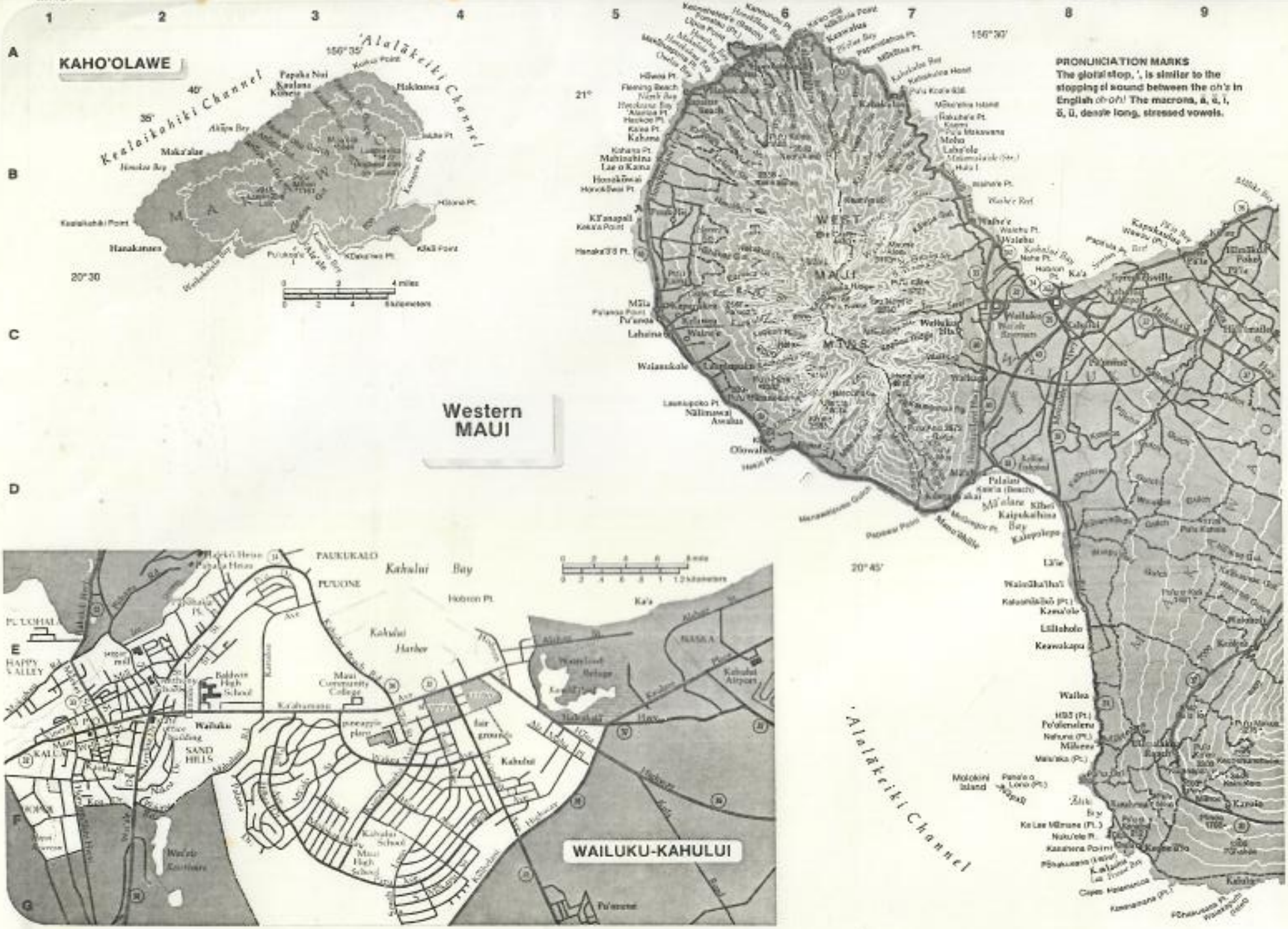
MAUI NEWS - April 27, 1990

To The People Of The Hawaiian Islands . . .

We believe our turtles need to be protected during their breeding periods. Some of our beaches should be reserved for them during this special time of the year.

If you are interested in helping us safeguard the turtles, please send in your name to

83 Hoolai St., Makawao, HI 96768


KAHO'OLAWE
Kealaikahiki Channel
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Western MAUI
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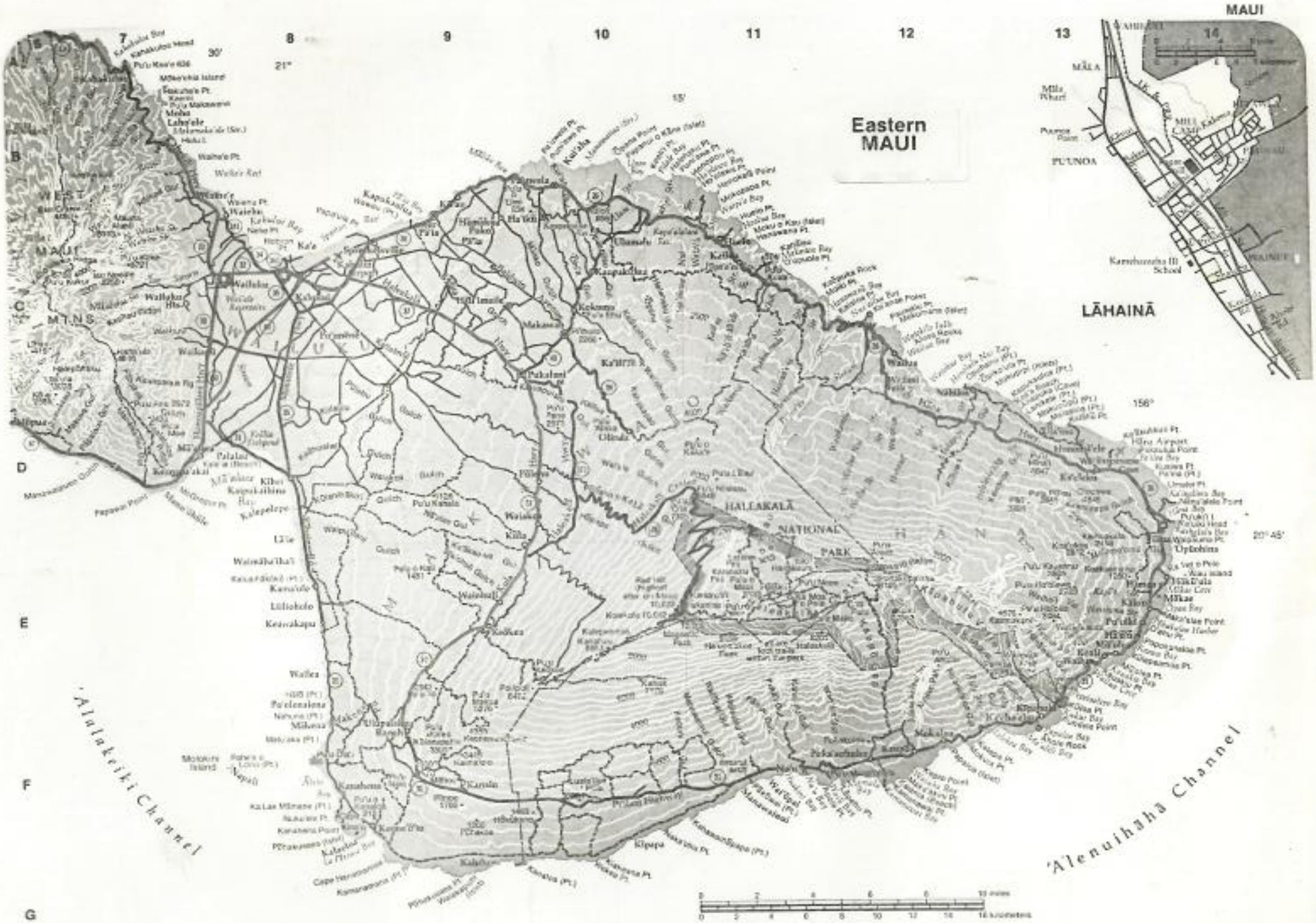
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WEST
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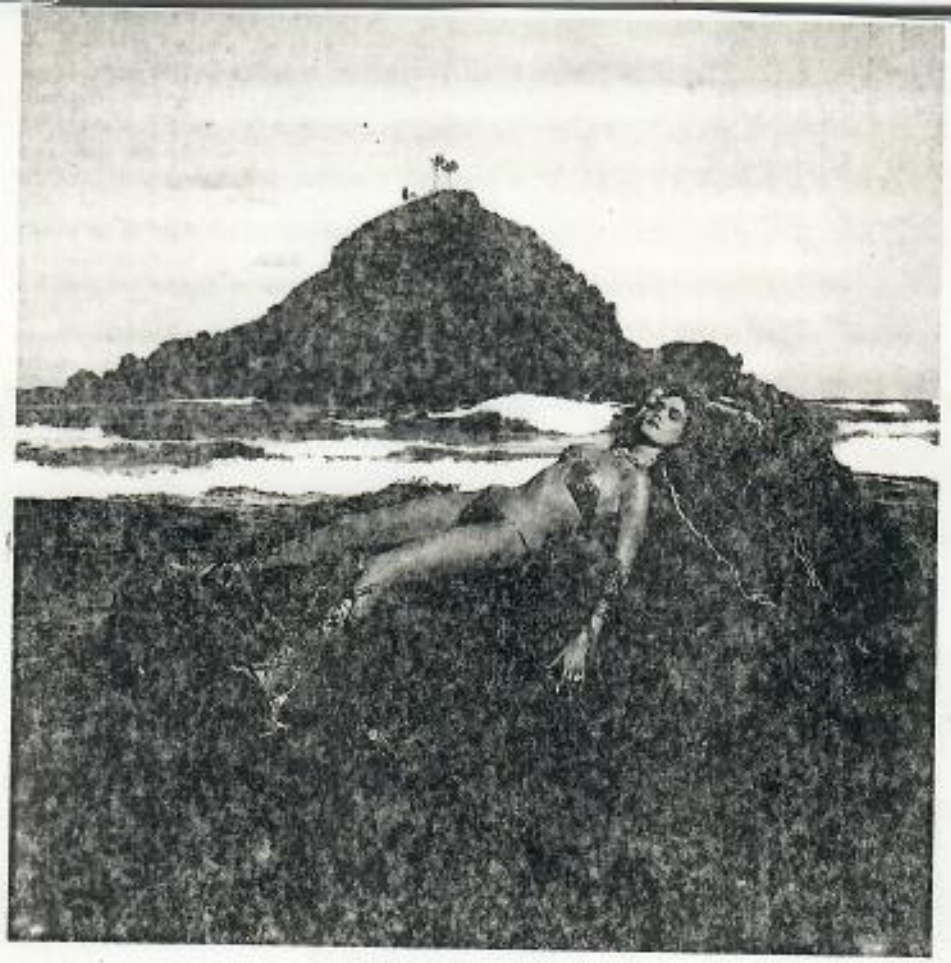


A Modern Eve on Hawaii's Eden Finds

1990

Magic on Maui

Photographs by Norman Parkinson/Produced by Robert Downs Clark and Alison A. Mazzola

The wild beauty and mysterious legends of the Pacific inspired the masterpieces of Paul Gauguin nearly a century ago; on these pages, the Hana Coast of Hawaii's enchanted island of Maui has lured *Town & Country* to paint new impressions of paradise with Texas siren Denice Lewis.

Above: With stark Alau Island as a backdrop, Denice, in a Gottex metallic bikini and Helga Wagner shell jewelry, becomes a captive of Maui's allure. At right, her island idyll begins as she finds inspiration in the haunting wood nymph Ho-po-e, whose legend entangles her in island lore. Our nymph is mesmerizing in a Gottex suit, David Webb jewelry and Estée Lauder's Ten Speed Colors, featuring eyes of Sunshine and Cantaloupe. Hair and make-up throughout by Garcia.

Denice Lewis, a descendant of explorer Meriwether Lewis, partner of William Clark, has adventure in her blood. And she likes nothing more than exploring the wonderland of Hana. At Lower Nahiku Falls, a mist-filled rain forest, she discovers a breathtaking array of birds and tropical plants. Poling her bamboo raft through the lagoons, she finally comes to rest in the crystal-clear pool of a waterfall, surrounded by the graceful Lauhala trees. How appropriate, she feels, are the words of Lewis Carroll: "Ever drifting down the stream . . . Lingering in the golden gleam . . . Life, what is it but a dream?" —JANE WILKENS MICHAEL

Above: In an Anne Cole suit, hat by Garcia and Elizabeth Arden's Topaz Luxury Lipstick, Denice has rafting reveries as fruitful as those of Gauguin. Basket: Tropico. Ki'i: Hankey Kharis. Right: Her glow already aided by La Prairie's Suncare Self Tanning Cream, a La Bianca suit and David Webb jewelry, Denice floats away in a fantasy island finale. Flowers throughout arranged by Michael Sneed — Floral Design Studio and Barbara Purintun of Hana Tropicals.

The Rosewood Corporation's exquisite Hotel Hana-Maui is part of the 4,500-acre Hana Ranch, originally a sugarcane plantation. Thanks to the vision of Paul Fagan, a San Francisco entrepreneur who was also the hotel's founder, the plantation was converted in the 1940s into a working ranch. Indeed, the white-faced Hereford cattle he imported remain a Hana trademark to this day. Hana offers numerous ranch-style activities, including horseback rides to such scenic sites as the black sand beaches of Waianapanapa, where Denice arrives in unique style. Also unique are the leis of rare lehua flowers that she wears around her neck.

Above: Denice, in an Eric Javits hat of sea grapes, Helga Wagner's coral necklace, Yves Saint Laurent suit and Rive Gauche Moisturizing Body Lotion, has hitched a ride on one of the friendly sea turtles that flourish along the Hana coast. The local waters are also a breeding ground for humpback whales. Right: An Eric Javits hat, an Oscar de la Renta suit, Oscar de la Renta Esprit de Parfum Caressing Body Finish and [illegible] Webb jewelry adorn the provocative nymph.

The rain forest of Waianapanapa State Park, with its dense vegetation and sacred caverns, invites Denice to act out her most frolicsome fantasies. But once it was a setting for sorrow: a chieftess from the Island of Hawaii was married to a chieftain on Maui who became insanely jealous when he heard of the affection she had for her brother. The frightened chieftess hid from his rage in a grotto in Waianapanapa but was soon discovered and murdered by her cruel husband. Each April, the water runs red at the site.

Above: At Lehoula Beach, Denice embarks on her own voyage of imagination in her Backflips suit. At right: She is Hina-of-the-Sea, smiling for her brother Maui, the demigod whose magic hook fished up the island that now bears his name. Suit by Gottex. Jewelry by David Webb.

Opposite: Even the naupaka trees seem to bow in respect to our Queen of the Jungle. La Crasia gloves complement her Gottex suit and David Webb jewelry. Her regal complexion is brought to perfection by Chanel's Après Soleil Revitalisant/Nourishing Face Cream.

NARS NOTES - Oahu

David Smith,
Acting NARS Biologist
DOFAW, Oahu

Kaala - The NARS crew has been busy controlling blackberry with the help of volunteers, and chasing a herd of feral goats who have been eating their way through portions of the reserve. Special permits are allowing public hunters to assist with the goat removal.

Pahole - Weed control continues in Pahole, and the crew is making impressive strides toward restoration of the native forest. John Innes, research biologist with the New Zealand Department of Conservation, visited Pahole in January and later wrote that it was the most impressive project he had seen on his trip to our State. This compliment is no accident, but the result of many long hours by the Oahu NARS crew spent meticulously removing weeds while leaving native plant species intact. Zen and the art of weed control—we're working on the 20 year plan. Pigs have been kept under control thanks to the efforts of the Oahu Pig Hunters Association and other non-affiliated public hunters.

Kaena - Wanted: A trap for vandals. Through persistent trapping and vehicle control efforts, the Kaena Point Laysan albatross nesting effort went from one chick last season to four chicks this year. Cats and mongooses were kept in control through a live trapping program, but no traps were available for the most dangerous predator of all—Man. Of the four chicks in the reserve, three have been killed by vandals, plus one of the chicks' parents. Although the crew is angry and saddened by this senseless slaughter, our hope is to get one bird airborne this summer and hope for a renewed effort by the birds next November. And more appreciation for our native birds by this year's vandals.

Turtle CPR

Skippy Hau, Aquatic Biologist
Division of Aquatic Resources, Maui

Ordinarily, we go about our day-to-day business without taking the time to consider the things that we accomplish. We usually have a lot more paperwork and emergencies than the eight-hour work day or 40-hour work week will accommodate.

This is just a simple turtle story which I thought people might like to hear about. The time was just after 7:00 pm on January 21, 1993. DOCARE Enforcement Officer Stanley Okamoto brought a turtle, which appeared to have drowned, to my house. He had recovered it from a gill net in Kahului Harbor. Stanley wanted me to confirm the identification of the turtle. Upon inspection, I determined that it was a green sea turtle (*Chelonia mydas*).

The small 20-pound turtle was limp. It appeared to have drowned while tangled in the net. I turned the turtle upside down and allowed water to flow from its mouth. Although it appeared dead, I held the turtle upside down and applied pressure to its ventral shell—slightly modified compressions similar to what you're taught in CPR classes for young children or infants. After what seemed to be about ten or fifteen minutes of trying to resuscitate the animal through applying pressure to the animal's dorsal and ventral shell, it gasped for a breath of air.

Although still limp, I let the head droop while the rest of its body was propped on the tailgate of the truck. I continued to pump more water out of the turtle. While holding the turtle's front flippers, the animal seemed to be half conscious. Some life had returned to the animal. Stanley left the turtle with me overnight for observation.

My next decision was where to leave the turtle. I propped the turtle head down on the shower floor for the night. After a couple of hours, the animal appeared to be revived, but weak. Later that night, I could hear the container which I had propped the turtle on, moving around. The turtle appeared much stronger and was crawling around. I turned the bathroom light off. In the dark, the turtle seemed to calm down and reduce its activity.

The next morning, I could hardly believe this was the same animal. The flippers were strong and its head was propped up on its own. I was able to do a better examination of the animal. The turtle appeared to have recovered from an earlier injury that left a noticeable notch in the right part of the shell on the third scute from its tail. The turtle weighed 21 pounds (according to my bathroom scale). The curved carapace length measured 43 centimeters. The turtle had no tumors or other visible injuries. With the help of John Cumming and Meyer Ueoka (DOFAW Wildlife Biologists), the turtle was tagged and released near the Kahului Harbor breakwater.

About eighteen months ago, my partner Brooks Tamaye (DAR Information Specialist), Randy Honebrink (Education Coordinator) and I excavated a hawksbill turtle nest on the south shore and released eleven hatchlings. Could this be one of the turtles from that nest? Although we know the odds of probability are against it, as field biologists, we get to dream that we might have made a difference in the survival of one or more animals. I guess that is probably why a lot of us are still biologists and why people still go to Las Vegas—to beat the odds.

This turtle, I believe, has again beaten the odds and survived another adventure which we got to be a part of. In a way, we hope never to see or hear about this turtle again.

NA ALA HELE
Hawai'i Trail & Access System

Christina Meller, NAH Program Director
DOFAW, Honolulu

Fuel Tax Bill Passed the Legislature

The Na Ala Hele bill, which would allow a portion of the gasoline fuel tax on vehicles to be spent on trails, passed the legislature. The Department of Transportation (DOT) supported our position, but was instrumental in cutting the percentage of the fuel fund from 5.0 to 0.3 percent. DOT based their percentage on the federal National Recreational Trails Fund Act percentage. The Department of Taxation initially opposed, but later supported the bill when they realized that it was a percentage and they didn't have to calculate fuel usage.

Na Ala Hele will recommend that the governor approve the legislation and have asked that it be signed along with a proclamation celebrating National Trails Day during the last week of May. Mahalo to all who helped make this new source of funding a reality.

National Trails Day

Na Ala Hele will be celebrating National Trails Day on June 5, 1993. DLNR Director Keith Ahue sent a letter to all the Boy and Girl Scout troop leaders statewide asking them to participate in Trails Day. If the scouts plan a trail related activity, they will receive a special commemorative pog displaying the Na Ala Hele logo and National Trails Day, June 5, 1993 date. NAH is also requesting that the Governor sign a proclamation designating June 5, 1993 as Hawaii Trails Day.

The advisory councils and NAH staff have worked hard promoting National Trails Day. The following are the events planned by each island:

Big Island - E Mau Na Ala Hele is sponsoring a hike along the almost 200 mile Ala Kahakai trail. They are looking for 40 teams of walkers to hike "their own" five miles of the trail. The team will note and document the trail's condition and associated scenic and historic sites. The information will be compiled and sent to the National Park Service. Contact Dr. Hugh Montgomery at 885-7759 if you want to participate.

Last year, Senator Daniel Akaka passed legislation nominating this trail to be included in the National Trail System. The National Park Service is required to study the trail to determine if it should be included into the trail system.

Maui - The Maui NAH Advisory Council is planning a dedication and blessing of the Lahaina Pali Trail. The mayor will be participating in this event. The trail is part of a historic route that once connected Lahaina to Wailuku. Contact Michael Baker (872-2521) for further information.

Lanai - The Lanai NAH Advisory Council is planning a blessing and dedication of the Kaolohia-Kahue demonstration trail. Contact Bob Hera (565-6672) on Lanai.

Molokai - The Molokai NAH Advisory Council is still in the planning stages for their trail day event. Please contact Kathy Tachibana (553-5485) on Molokai to find out what they are planning.

Oahu - Three activities are planned for Oahu. There will be a trails display at Ala Moana Center from the 4th to the 6th of June; The Hawaii Nature Center is sponsoring a family hike for Trails Day; and the Oahu Na Ala Hele Advisory Council is planning an evening flashlight hike at Kealia. [Details of this event are in a related article on page 3.]

Kauai - The Kauai Na Ala Hele Advisory Council has not scheduled an event but will be meeting on May 17, 1993 to discuss the possibility.

Plastic Wood? A New Way to Recycle

Curt Cottrell, Trails and Access Specialist
DOFAW, Oahu District

Here is an application for select portions of the plastic waste stream—lumber made out of recycled plastic. The Oahu Na Ala Hele (NAH) program has just completed a 40 foot section of boardwalk constructed entirely out of recycled plastic and galvanized metal posts. There is a section of the Maunawili Demonstration trail that contours below a perched spring, creating a mud area that was impossible to drain with standard trail construction techniques. NAH staff determined that a boardwalk would be the only way to provide a "muck free" route through the area without altering the natural flow of the spring.

While conventional lumber would be less expensive in the short run, we decided to experiment with the more costly "ecolumber." After weighing the costs and benefits of both materials, we were very pleased with the numerous incentives for using ecolumber.

Lumber made from recycled plastic is:

- Resistant to termites and other boring insects.
- Eliminates the need for treated lumber (now considered toxic waste).
- Maintenance free.
- Fire resistant with an ignition point twice that of wood, and there are no toxic fumes.
- Workability is equal or better than that of wood, ecolumber will not crack.
- Available in a wide range of colors.
- Fungus proof and will not rot.
- Graffiti proof—paints just wash away.
- Weather resistant.
- Chemically resistant to all solvents.

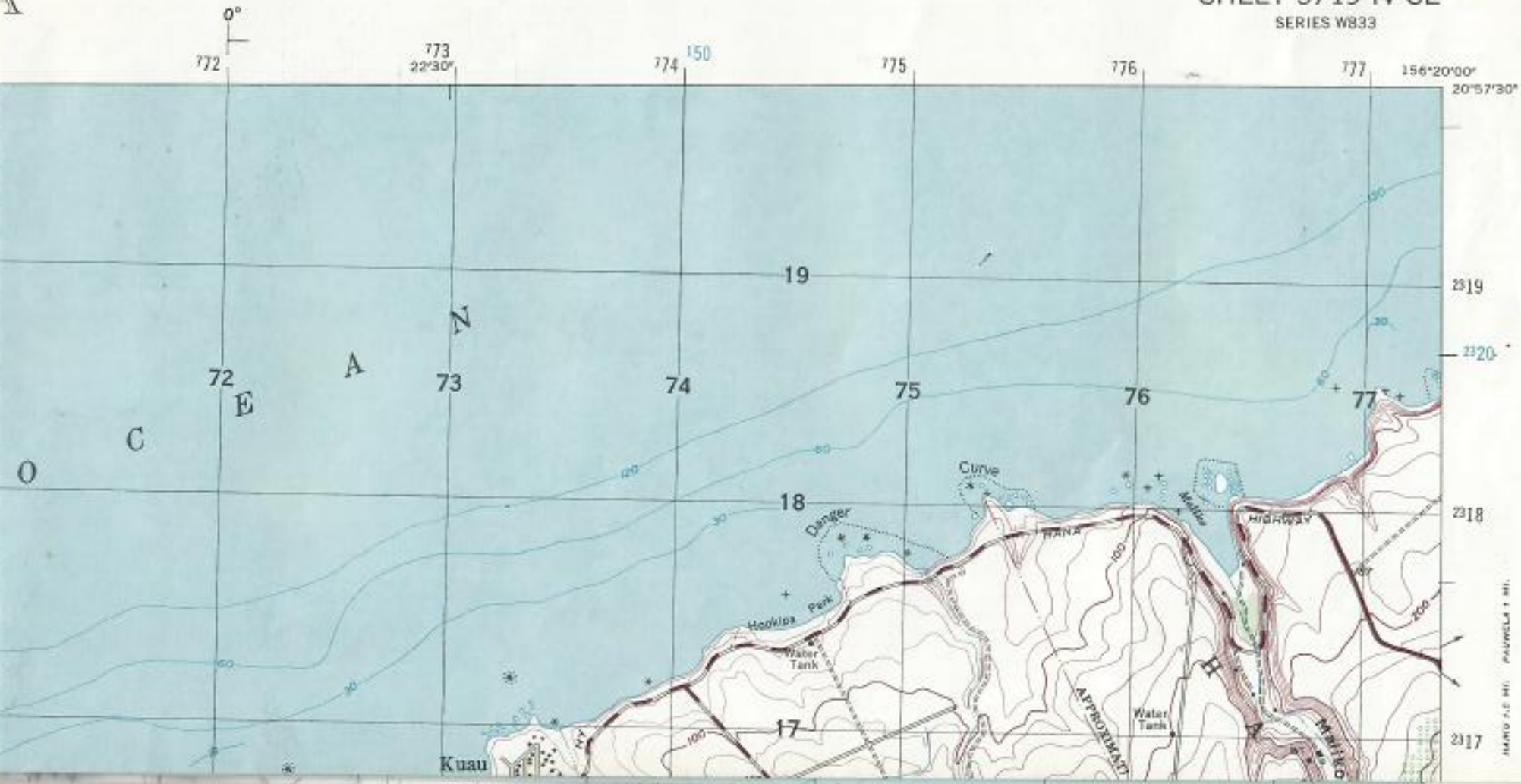
Another positive factor includes diverting a portion of the plastic waste stream away from landfills by utilizing a material typically perceived of as waste and converting it into a resource. In the process we can reduce our dependence on harvesting trees. Currently this material must be shipped from the mainland, but hopefully entrepreneurs will be manufacturing ecolumber here in Hawaii. If this material meets our expectations, we may be considering a trail shelter made out of ecolumber.


Spartan Reef
Papaula Point
Wawau
Kapukaulua
MAUI COUNTRY CLUB
KAHULUI AIRPORT
Spreckelsville
Russian Village
Japanese Village 1
Hawaiian Village
Kaunoa Sch
Cod Fish Village
Spreckelsville School
Lower Village 3
Middle Village 3
Upper Village 3
Village 2
Puu Nene
Cemetary
Central Power Plant
Central Tower
Swimming Pool
Water Tank
KANAHA POND WATERFOWL REFUGE
Kanaha Pond
Kaa
HALEAKALA HIGHWAY
RAILROAD
PIPE LINE
SUNNY SIDE
DITCH
DAIRY ROAD
3 LANE
BOUNDARY
BM 7
BM 5
BM 41
BM 43
BM 49
BM 01
16
15
14
65
66
67
70


Lower Paia
(BM 17)
Paia Bay
Curve
Reef
Flume
Pump
Siphon
Hamakuapoko
Maui High Sch
Water Tank
Reservoir
Pumping Sta
Hawaiian-Spanish Village
Store Village
School Village
Paia School
Orphanage Village
Nashiwa Village
Paia
(BM 295)
Olopua
Maui Childrens Home
Kaheka Village
Baldwin Memorial Home
Maunaolu College
Powerhouse
Pumping Sta
Rec
Pu'u Umi
Gulch
HAMAKUAPOKO
HALIMA
Kahua
16
15
14
12
75
76
77
2316
2315
2314
2313
2312
55'00"

SHEET 5719 IV SE

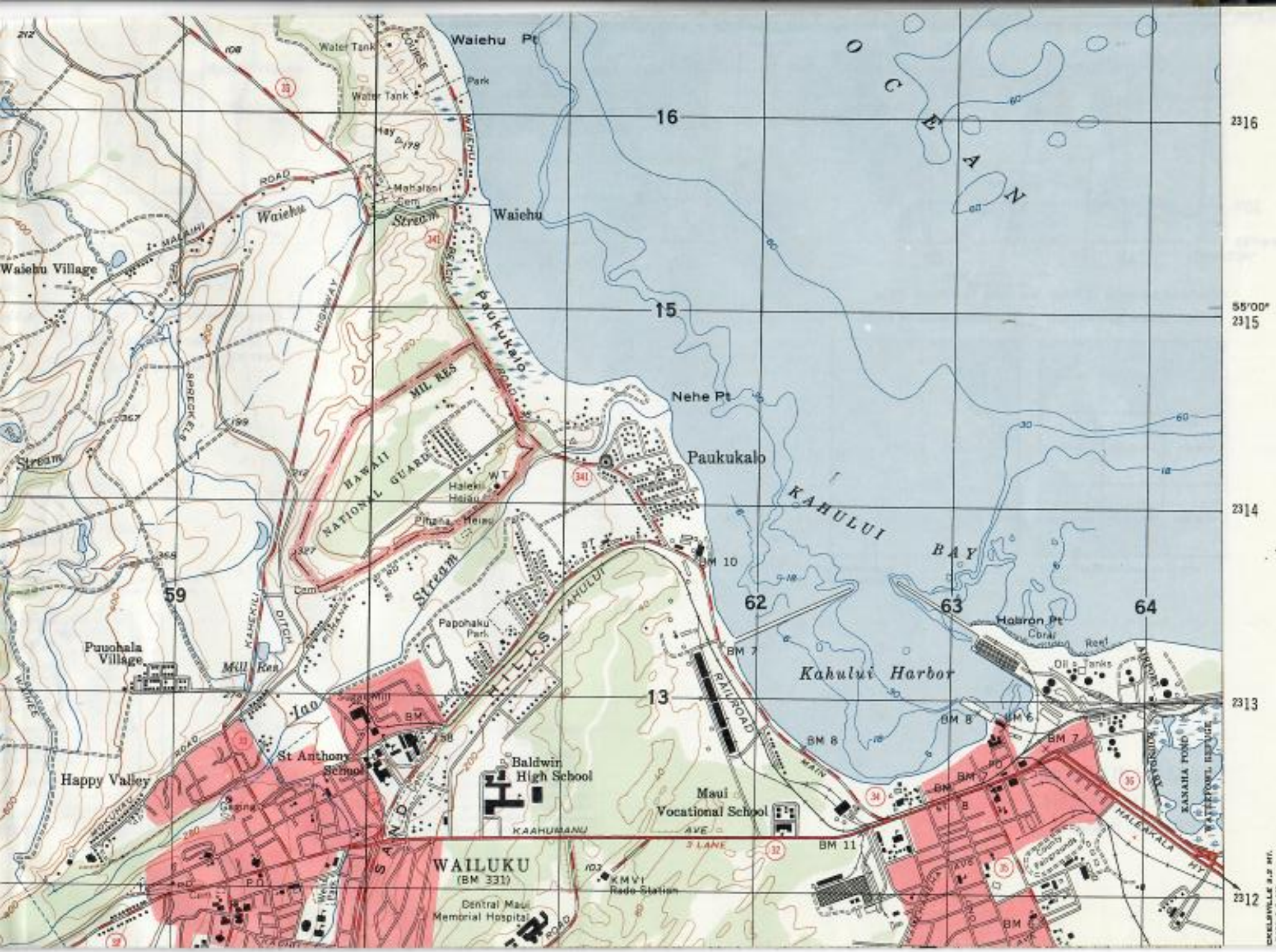
SERIES W833



LUKU

SHEET 5719 IV SW

SERIES W833


Waiehu Pt
Water Tank
Water Tank
Park
Hay
Mahalani Cem
Waiehu
Stream
Waiehu
Waiehu Village
Stream
Paukukalo
Nehe Pt
Paukukalo
MIL RES
HAWAII NATIONAL GUARD
Haleki Heiau
Pihana Heiau
Stream
Papohaku Park
Puuohala Village
Mill Res
Iao
Mill
St Anthony School
Happy Valley
Baldwin High School
Maui Vocational School
KAAHUMANU AVE
3 LANE
WAILUKU
(BM 331)
Central Maui Memorial Hospital
KMVI Radio Station
KAHULUI BAY
Kahului Harbor
Hobron Pt
Coral Reef
Oil Tanks
RAILROAD
MAIN
HALEAKALA HY
KANAHA POND
WATERFOWL REFUGE
OCEAN
16
15
13
59
62
63
64
2316
55'00"
2315
2314
2313
2312