FILE OF G.H. BALAZS

KELSEY COLLECTION (REV. WALIMU B. 1835, PARAGLOA, HAWAII)

Turtle Fishing (Lawaia Hour) By Rev. Henry B. Narlina, Hilo.

The net had openings (hakahaka), with the meshes (ka maka) perhojes a foot wide (hookahi kapusi (foot) paka (perhaps), and forty (kanaka) fathoms (=anana) the length (ka loa). There, were two carroes ('elua woa). Unite (hochin') the heads [na poo) of the snets, two nets (Elva Espena) ma kahi (about) eighty fathoms (kanawalu anana) long, perhaps a hundred fathoms (hookahi (one) handle anana). There was a watchman (he kile) above on the cliff (ille) on the eliff (-iluna - a ka pale), and it was his duty (-a mana) to separate (kahikaki) and move apart [hoonee - ie) the canoes (na waa), at the time (i kx manawa) that the fish waterman (ke kilo -ia) saw (-ua ike 'oia) the turtle (-ie ka honu) he signaled with his hand (pe'ahi 'via) to the two canoes (-i na waa Elua) to move (esnee) Ha opened up his arms (wehe sia - i kona lima) at the time that he saw (-i ka gnanawa -i "the -si) that the turtles were right where the canoes west va kuporo na honu -i kaki -o na was i hele -ai), When he opened his arms (-i ka wehe 'and to keara lime) they let down the met (hookun lakon i ka 'upena). The canoe men would beat the sea with branches (me kar laave - s hoopahin - ai iloko - a ke frai (laave, timber, word, tree) Then the turlle (4) would go to where the net was

They would leave the net (healele ka apena) leave it with a float (mous, busy) (me ka sno o e haalele _ai), and with the rope of the upper selvage holding the net L-ame he knule - kh aliki e paa _ana _i ka Eupena) The line (word boton the Fine and the heads of the turtles tangled willing There was a piece of williwili wood (he laan willwili (a branch?), a piece of han wood (he laan han); and an 'ulivelie (a gourd that was planted (he) - ipu - i kanu (ia), and grew (-a -ulu mai), and dried (ca maloo), and was held fast in a calar bash net (-a hoopaa 'ia -i ke koko), and floated in the sea (-a lana - sloke - c ke kai) - the ulinlin. The canoes went toward the upland Lholo na was marker) to that and this outer corner of the float (ma kela keia kihi-o ka mous) and best the sea (-a hoopahii - i ke sai), and the turtle (s) went off (-a holo ka honn). and the net was gotten and julled in (a kii ka 'upena a malewa (wide enough to put the hand through) The fishing watchman saw the turtless floating on the surface of the sea (Ike ke kilo -i ka home e lana ana iluna - o ka 'ili kai I There are textles in Ha-makua and Puna off the coast. They weed to use a speak (he of) from the harles, not the ancient Hawaiian speak. There was only the net: oucient times (Ka 'upena walens ho ha wa Rahiho) I have not seen the small net (dole -su _i like - i ka - 12 cm 0 00 1 1 1/2 10 0 ft.



University of Hawaii at Manoa

P.O.Box 1346 • Coconut Island • Kaneohe, Hawaii 96744
Cable Address: UNIHAW
December 20, 1982

Mr. John Clark P.O. Box 661 Kailua, HI 96734

Dear John:

The following information represents a brief summary of my views on what would be important for you to mention, and not mention, about sea turtles in your forthcoming book on the Big Island. Please feel free to telephone me, or meet with me in person, if you would like to cover any of these points in greater detail.

With respect to sea turtles nesting on the sandy beaches of the Big Island, I suggest that you describe this activity in general terms without specifically identifying the beaches involved. You could point out that this nesting is only known for the hawksbill turtle, and that it occurs at a low level at several beaches scattered around the island. You might also ask any reader who comes across a nesting turtle, or evidence of nesting (tracks, diggings, hatchlings) to please write to you describing the observation. It would also seem appropriate to point out that all sea turtles and their nests are fully protected by state and federal wildlife laws.

With respect to sea turtles feeding and sleeping within the nearshore waters of the Big Island, I suggest that you specifically identify several of the key (critical) locations, and mention that they have great potential for designation as sea turtle sanctuaries. You might also comment on the fact that some tagging research has been conducted on the turtles at these sites. The sites that I recommend you mention are 1.) Kiholo Bay and the connecting mixohaline pond, 2.) Ninole Cove and the coastal waters extending north as far as Kamehame Point, and 3.) Kalaulalu Bay and the coastal waters extending for about one mile to the south. As you are already aware, it is principally the green turtle that feeds and sleeps within these nearshore waters. This species is a migrant breeder that regularly travels to French Frigate Shoals in the Northwestern Hawaiian Islands. Additional general information on Hawaii's green turtles can be found in my recent article in Hawaii Fishing News.

If you wish, I would be happy to read through your section on sea turtles and offer any needed comments.

Best wishes for the Christmas season and the New Year.

Sincerely,

George H. Balazs Assistant Marine Biologist (1982-82 contract with NMFS)

Hawaii Institute of Marine Biology Coconut Island * P. O. Box 1346 * Kaneohe, Hawaii 96744

-> 9928

Telephone No. 324-1295

February 20, 1980

Mr. Robert Hines P. O. Box 1149 Kailua-Kona, Hawaii 96740

Dear Mr. Hines:

You will probably recall that I telephoned you during early September of 1978 concerning my research program of Hawaiian sea turtles, and my interest in conducting a short study at Kiholo. At that time you indicated your willingness to provide me with the gate key for the access road to Kiholo. I am hopeful that this kind offer still exists in that I would like to now plan a study visit for March/11-14th/or March/18-21st. Would either of these time periods be inconvenient for your schedule, or possibly activities that may be taking place in the Kiholo area? My work would involve only two people, myself and my research assistant, Mr. Alan Kam. We would anticipate bringing a small camping tent and staying at Kiholo in an out-of-the-way location for the four nights of the study visit.

Your assistance in this matter will be greatly appreciated. I look forward to hearing from you when your time permits.

I have enclosed two articles on sea turtles that I thought you might find interesting.

Sincerely,

George H. Balazs Assistant Marine Biologist

mk enclosures

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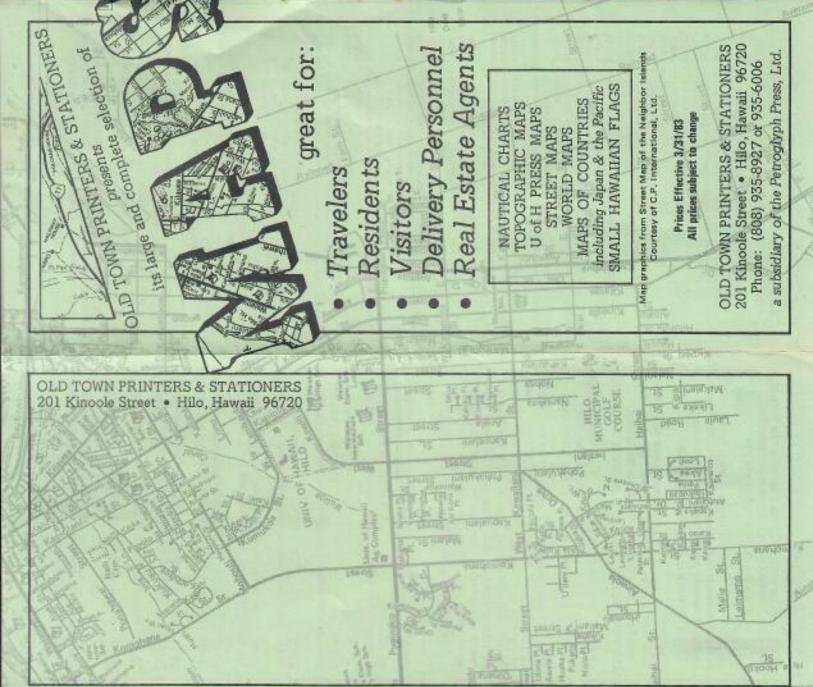
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Mahukona Harbor and approaches Honokohau Harbor

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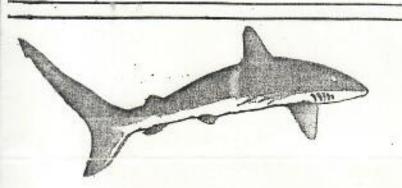
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UH HILO MARINE OPTION PROGRAM NEWSLETTER



September 8, 1983



Welcome to a new semester at U.H.H. There are many events and new projects to be informed and get excited about. With all these new activities, we intend to keep you abreast with a monthly UH-Hilo M.O.P. newsletter.

FIRST BIG EVENT

Our first activity is an orientation get-together, Friday Sept. 16th in the Life Science quadrangle from 4:30pm on. Refreshments and pupu's will be served. We encourage you to come and meet the faculty and fellow Moppers.

NEW PROJECTS

All those Moppers interested in the Turtle project, please come in and read the literature on the project. We also have other turtle related information. Familiarize yourself. It is important you have an understanding of the on-going research involved in the project before being considered as a participant. George Balazs will meet with students 4:30pm Monday Sept. 12th in L.S.15.

We also have other marine related literature in the office. Feel free to stop in and browse.

ON-GOING PROJECTS

For those of you unaware, each semester M.O.P. establishes and maintains a 160 gal. aquarium on the third floor of the Campus Center. Presently the aquarium is empty. Volunteers are invited to help with the water collection and fish acquisition. If you are interested contact the M.O.P. office for all the details.

We are also recruiting volunteers to paint a large blue multi-hued wave on the M.O.P. building. Sign Up.

FOR YOUR INFORMATION:

M.O.P. maintains the bulletin board in Wentworth Hall, by the soda machine. Current issues of Seawords, the all campus M.O.P. newsletter, will be posted bi-monthly, along with current activities and other items of interest. Check this board to keep abreast of all up-coming events.

SCUBA INSTRUCTION

There will be a M.O.P. sponsered open-water SCUBA class tentatively to be offered over Thanksgiving break. Those interested should sign up at the M.O.P. office.

DROP-BY!

All Moppers from Spring 1983, drop by and update your file. There have been some questions about the skill project; realize that as you become more familiar with the Marine Option Program and your insight and curiosity increases, many ideas for possible projects arise. We've also compiled a list of possible projects and its on the M.O.P. bulletin board.

GET INTO IT

This semester M.O.P. will sponser several excursions to enable students to get out and get in the ocean. Yesh!

---- Beach party down at Bay front--with sailing adventures and a barbecue.

--- Ho'olaulea- a week-end to camp at Spencer's Beach Park. Swim, dive, sail, fish, snorkel, everything.

--- A day of trolling and bottom fishing. Dates to be announced.

OUR OWN RESEARCH VESSEL

UHH M.O.P. thanks Mr. Clarence E. Andrade, a former teacher and administrator at HCC, for the Patti Jo. She's a 20 foot, hand built fishing vessel, outfitted with electronic equipment, fishing gear, and a trailer. The boat was donated by Mr. Andrade; miracles really do happen. Let's keep up the momentum.

FINAL NOTE:

Remember Moppers, if you have any questions or suggestions, please stop by the M.O.P. office. Let's all have an enjoyable and productive semester.

See you at the party, Aloha,

Nancy and Diane

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® News of the Marine Option Program
ISSUE 16 OCTOBER 28, 1983

HILO HAPPENINGS

By Denise Cordova, UHH MOP student

The Fall '83 semester is upon us now and we would like to welcome everyone back. We have 27 new students in MOP at U.H.H! An insuguration party was held on September 16, 1983. We had a super turnout with both old and new MOPers.

While at the party, major projects for the '83-'84 academic year were discussed. Among the projects is a major study of green sea turtles. The objective of this project is to study the population growth and developmental habitat requirements in their nearshore foraging pastures. Mike Slaughtery and Leslie Kaholoaa are developing another project which involves a detailed business model for the independent fisherman.

Ijeva Brambridge will be researching a freshwater prawn, Macrobrachium rosembergii. She is interested in opening a commercial aquaculture operation and is now working on a feasibility plan.

In association with Dr. Richard Young from UH Manoa, Dr. Leon Hallacher, Michael Baldonado and Steve Fukumaga will study squid off the highly productive eastern Hamaiian coast. Their work, being done by UH, University of Hokkaido in Japan, and the National Marine Fisheries Service, hopes to determine the importance of squid as a dietary base for tuma.

Another new project this year is reporting the MOP news from our UHH campus and corresponding with Seawords. Denise Cordova is looking forward to interrelating the interests of our MOP students.

At this time we would like to recognize the new MDPers. They are the following: John Woertendyke, Bruce Matthews, Sheila Mahony, Deborah Kaluna, Richard Lankki, Darrell Kuanoo, Trevor Jackson, Doreen Johnson, William Harlan, Diame Guerriero, Chris Doll, John Coney, Michael Baldonado, Ijeva Brambridge, Deborah Pooler, Robin DeMeo, Mendy Guyer, Leslie Kaholosa, Mike Slaughtery, Kimberly Bailey, Kevin Lau, Loretta Mazarakis, Steve Fukumaga, Mark McLaughlin, Barbara Brooks, and Dawn Minan.

OAHU MOPicnic



It's time to picnic! MOP will be having a picnic at Kualoa Beach Park on November 20 (Sunday). We hope everyone blocks that day off their calendar as we expect to have TONS of FUN! Join us if you can, call 948-8433 and talk to Dave or Annie for more details.

MAUI MOPER VISITS BUCK ISLAND

University of Hawaii

By Lois Yamamoto MCC MOPer

This past summer I was fortunate to visit an underwater trail in the Caribbean. Called Buck Island Reef Underwater Trail, it is one of the features that travel magazines and tourist brochures recommend visiting if you should happen to be in the U.S. Virgin Islands. Especially if you're on the island of St.Croix as I was.

Buck Island, an uninhabited island four miles northeast of St. Croix, became a territorial park in 1948. Then, a presidential proclamation in 1961 made Buck Island and its surrounding coral reefs a National Monument, (a total of 880 square acres are maintained by the National Park Service.) Their headquarters are in Fort Christiansvaern, a historical site in the harbor town of Christiansted, St. Croix, seven miles away.

Here also are moored most of the Buck Island boat operators. Walking along the wharf, you have a choice of going on an all-day sail, motor-boating to the UW trail, picnicking, or having a barbecue at sunset. Prices range from \$18 to \$25, which usually includes snorkeling gear and lessons for beginners. The trail itself is exclusive to snorkelers, but some companies arrange SCUBA diving tours to other parts of the island. The Reef Queen, the company and name of the boat that I chose, offered a catamaran sail at sunset in addition to a glass-bottom cruise to Buck Island.

The morning I stepped onto the Reef Queen was warm and sunny. On the way, most of us rubbed on suntan lotion while everyone had a chance to choose snorkeling gear. The first mate then gave an expert and entertaining lecture on snorkeling before we arrived at a serene bay on Buck Island's west end. There, we could either practice snorkeling in the calm rateres or lie on the white sand beach in the warm sun. Then it was on a 10-minute ride along the southern coast and through the lagoon's entrance to Buck Island's "boat parking lot."

Commercial activity in the park is regulated by the National Park Service whose rangers patrol the area on a regular basis. Commercial vessels' mooring time is limited to one hour and fifteen minutes (there's no limit for private vessels), and the guided snorkeling tours are limited to six persons at a time.

(cont'd. on page 2)

ISSUE 16 OCTOBER 28, 1983 SEAWORDS PAGE 2

UHM Celebrates National Higher Education Week

Welcoming Remarks of Chancellor Anderson at the Marine Sciences Building Event on Tuesday, October 4.

Thank you, Dick. Good evening, ladies and gentlemen. This event was planned, initially, to celebrate National Higher Education Week.

In the early planning stages of the celebration, the theme, "Our Commitment to Hawaii's Future," was arrived at, and with it the idea of holding similar activities as tonight's in order to familiarize the public to the various disciplines of your University and the UHM campus and the important role these disciplines play in the educational, social, economic, cultural and political life of our state.

The Marine Sciences Program as a major and sigmificant discipline has fulfilled the various roles by initiating research efforts which have resulted in the development of much new knowledge and has been responsible for the increase in marine awareness in the state, and also the significant eco-

nomic benefit to the state.

No single area of research at the University more clearly illustrates the vision of our academicians (scholar, scientists) than in the role they played in aquaculture. Long before "aquaculture" became a popular and familiar word, researchers began the exacting task of screening and studying species which had traditional significance and conmercial value to our citizens. While the focus was on very localized species, researchers were well aware that the ecosystems, culture, and traditions of Hawaii reflect those of island communities throughout the vast area of the Pacific. Thus, the potential market for the knowledge developed in the Marine Sciences Program will have similar impact not only on Hawaii, but also on the greater Pacific region.

Another aspect of marine resources development lies in its interdisciplinary aspect. As an example, research in prawm production involved a number of studies done by various departments: "The development of Feed Management" by the Animal Sciences Department, "Aquaculture Engineering" by Agricultural Engineering, "Benthic and Water Golumn Microbial Activities" by the Department of Oceanography, "Chemosensory Feeding Biology" by HIMB, and "A Bioeconomic Model for Fresh Water Prawn Production" by the Department of Agriculture and Resource Economics.

Other areas in marine activities bring into play other Manoa campus units, such as "Marine Metabolites as Potential Pest Control Agents" by the Chemistry Department; "The Development of Marine Toxins" in Pathology; "Gas Bubbles" studies by Physics and Astronomy; and "Ecological Assessment of Bacteria in Water Environments" by the Water Resources Research Center.

The first decade of marine sciences in Hawaii has been an extremely significant factor in the development of the state's expertise in marine fields and its

concommitant scientific talent.

The next decade--and the years following--will see increasingly sophisticated applications of science to support state and national goals for the Hammian archipelago and surrounding waters. In fulfilling its "commitment to Hawmii's future", marine sciences will continue to offer solutions to problems while meeting the needs in Marine education, research, and advisory services to the state, the nation and the Pacific region.

In fulfilling that commitment, the University of Hawaii at Manca will continue to offer its support; and wishes the various marine sciences programs continued success.

Thank You.

BUCK ISLAND (Cont'd. from page 1)

50, after anchoring, we were divided into teams of six, and I jumped into the turquoise lagoon, quickly forgetting the first mate's instructions to stay in pairs and in line as we snorkeled past the other vessels moored there.

"Stay together," called out our snorkeling guide. He was swimming backwards to look at us from the

front of our small group.

"Cops!" I thought, knowing he meant me. I fell into place, trying not to bump into my assigned buddy, a young girl from Puerto Rico. I took a deep breath and went down instead of left or right.

"Very nice," I thought. "Pretty. Different corals. The sergeant major here has more yellow...."

As soon as we reached the first marker to the trail, the regiment relaxed noticeably, and the scenery changed. My mute comments were now more like: "Wow! a school of blue fish!...Oooh, look at that...!"

It was an underwater jungle--an exciting panorama of visual textures! The many different corals were rough and rugged, small and lacy, round and grooved long and slender. The outstreched "branches" of elkhorn corals were like trees in a forest while the massive brain corals were like grooved boulders, and sea fans and gorgonians (colored soft corals) waved in the currents on the ocean floor.

The fishes (blue tang, yellowtail snapper, blue head wrasse, smooth trunkfish, Bermuda chub, stoplight red parrot, yellowtail damselfish, and many more) went about their business as if we weren't there—just another bunch of tourists passing through their home town.

There was so much to see and marvel at in the 750 feet of the trail. And it was enjoyed by everyone whether free-diving or snorkeling at the surface with a flotation vest on.

Blue 10" x 16" plate-glass markers set in concrete rested on the ocean floor 12 feet or more below the surface. Some signs simply pointed arrows to the next marker. Others had large white letters, clearly visible from the surface, with messages like: "Things underwater look 25% larger and closer;" and "What would you name this coral? You are right. Brain coral."

The sand that settles on the signs due to wave action is brushed off daily by the rangers. Algae is scraped off every four to six weeks. Installed in 1977, the markers still look new. Rest floats at the surface also have signs on them.

The unbroken corals on the unlittered trail were a sharp contrast to the large amount of litter I'd noticed at other beaches and roads on St. Croix. I recalled Supervisory Park Ranger Felix Revello explaining that the island's "inaccessibility (except by boat) also protects it" from litter, vandalism, and poaching. Fishing and the removal of any natural features is against park rules.

Buck Island, with its rich and diverse "underwater garden," came to mind recently as I snorkeled with the Maui MOP reef survey team at Olowalu, the proposed site of Hawaii's first underwater trail. In the next issue of Seawords, I will discuss the Olowalu site.

MORE MALI NEWS ON PAGE 3 11 2

ISSUE 16 OCTOBER 28, 1983 SEAWORDS PAGE3 Hanguma Picnic Poll:

By Allison Chun, UHM-MOPer

Preliminary work for the underwater trail proposed for Hanauma Bay has finally gotten under-The trail would ideally be a set of underwater plaques displaying the various marine organisms found in the bay. Before the plaques can be installed, however, research must be done on plaque design and methods of installation, the types of marine life present in the designated area, and frequency of its use by both locals and visitors.
October 23rd saw the first Hanauma Bay user

survey and potluck picnic. Participating were three dedicated MOPers, Laurel Buck, Allison Chun and Lori Kishimoto, led by Leeward MOPer Robert Erwin. Also assisting were two friends of MOP (FOM), Dave Dexter and Anne Gasparini who are visiting students from

New York.

After setting base camp up beneath a shedding banyan tree, our surveyors got right to work. Lori and Allison stationed themselves right by the showers and restrooms and "ambushed" unsuspecting beachgoers there, while Robert and Laurel (our Japanese interpretor) interviewed people by the steps at the base

of the hill.

People were questioned concerning frequency of use, reasons for using Hanauma, and specific interests concerning the flora and fauna within the calm, clear waters of the bay. Most users expressed an interest in learning more about the bay and seemed especially interested in its fish life, history and geology. When asked what sort of marine life they were most interested in (choice of fish, coral, tur-tle or shark) a common answer was 'What, SHARKS in the bay???"

Over a fantastic potluck lunch of Kal-bi, Allison's delicious yogurt fruit salad and musubi, we discussed some of the more interesting responses

A Sunday Survey Success

we recieved. One person surveyed by Laurel was sont away disappointed when he realized that he wasn't going to get free hamburger certificates for completing the survey (as was promised him as a joke by a fun-loving friend who had been surveyed previously). Robert, who misunderstood the situation, directed him to the nearest McDonald's, though.

One of the most interesting responses to the last question on the survey, "what did you enjoy most about the bay?", had nothing to do with the marine life or the proposed trail. It had more to do with amphibious marine mammals (the scantily clad,

two-legged type of the opposite sex).

In all, it was an extremely interesting way to spend a Sunday. We met a lot of people, not only locals and mainland visitors but also people from other countries such as Barbados, Canada, Germany and of course Japan. We also got a lot of exercise, at least Lori and Allison did. Some of the people agreed to be interviewed only if we would walk with them up the hill as they returned to their cars. We ended up making several trips up and down the looco

ng, steeeep hill!
The information obtained from the questionnaires will be used to get an idea of the feasibility of installing an underwater trail and the public's response to such a trail. The next step of the preliminary work was held on Oct. 30. The area designated for the trail was transected in order to determine the types and relative abundance of fish, coral, algae and invertebrates present in that area. This information will be used to help design the plaques. Arone interested in helping out with any part of the underwater trail is welcome. If interested, contact Robert Erwin at 487-5202, Annie Orcutt at MSB 229 (948-8433), or Allison Chun at MSB 203 (948-6000).

Skill Projects in the Spotlight BY SJL

In the search for harmless, more efficient energy production methods, many of us assume that improved technology is the key to success.

Three years ago, UH student Alan Shigemura came up with an idea that originated from simplicity and practicality, two important qualities that are sometimes overlooked. The properties of deep ocean water, current air conditioning systems, and the need for energy efficiency were the backbone of his idea.

Briefly, Alan's idea involves the use of deep (1500 meters) ocean water as a coolant for airconditioning systems, rather than the complicated compressed freen gas system currently popular.

If actual implementation of such a brainchild is ever to be realized, the necessary ground-work will be considerable. Obstacles such as an extensive network of pipes, which may need special insulation, are formidable. The costs of such an undertaking may, in fact, outweigh the greatly increased efficiency that Alam forsees. Current systems operate at approximately 5 to 10% efficiency while Alan consevatively estimates the efficiency of his system at 40%.

It is important to understand, however, that Alan's success with his Skill Project does not hinge on the economic feasibility of ocean-cooled air. In a sense, Alan has already succeeded because he has the desire to improve what he sees around him and the ability to explore avenues that may lead to said improvement. Regardless of the outcome, Alan will have learned, and that is the goal of a Skill Project.

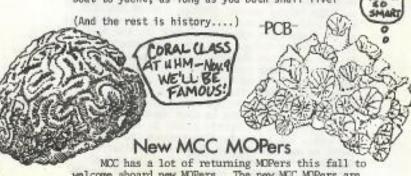
MOP Leader Loses Bachelorhood

(Ed. Note: Sherwood Maynard, Director of MOP, got married to Annie Gerstl on Oct. 26. The following is a "stretched" re-creation of the ceremony.)

> Dearly beloved, we are gathered here under the eyes of Poseidon, in the presence of these fishies to join this merman and this mermaid in holy marinimony.

> If any man can show just cause why this aquarium will not function at proper pH, let him speak now

of forever hold his peace.
Do you Annie Gerstl take Sherwood Maynard to be your lawfully wedded SCUBA buddy? To have and to hold thy SCUBA tanks, through calm water and tsunami, in high tide and low tide, from row boat to yacht, as long as you both shall live?



welcome aboard new MCPers. The new MCC MCPers are as follows: Randy Campbell, Barbara Gray, Janie Greenough, Michele Hamada, Greg Hoban, Barbara Jablonski, Mike Jones, Sheree Kimura, Jeff Poskin, Mary Rose, Dee Samonte, Jack Torrey, Wyatt Young and Ronald Fukushima.

ISSUE 16 OCTOBER 28, 1983 SEAWORDS PAGE 4

Windward Watch

By Lori Buckley, WCC Coordinator

Windward MOP is proud to announce the appointment of a student coordinator... Paul Williams.
Welcome aboard Paul!! Paul will be writing Seawords entries, organizing activities, meeting with MOPers, publicizing MOP and, in general, keeping MOP in touch with the students. Bring your suggestions and ideas to the MOP office for discussion.
Paul's office hours are Monday and Wednesday 1300-1600.

MOP and Hawaiian Backyard Aquaculture Program (HBAP) have had more changes with the start of fall senester. Jeff Hunt (Uncle Jeff), MOP Summer Coordinator and HBAP Frincipal Investigator, has been appointed Assistant Dean at WCC...congratulations, Jeff!! Because of the time demands of his new position, Lori Buckley joins HBAP as Associate Investigator and instructor of AQUA 106 (Small Scale Aquaculture). Although Jeff will retain his role of administering the HBAP grant, Lori will advise students working on aquaculture projects and manage the 21 ponds of HBAP. In addition to Jeff and Lori, HBAP includes the following students: Banny Chong, Leslie Names, Ron Bahkemper, Robin Ruffino, Mike Shirona and Jim Taylor.

Taylor.

Bob Cisneros and Rom Mori have recently submitted their skill reports on "Diseases of the Hawaiian Prawn" and on "Species Assessment and Selection," respectively. Well done! Hear, hear! Hurrah!!! This should give current HBAPers and MDPers hope and optimism for the future of their

reports.

Jim Taylor, Mike Shiroma, Ron Rehkemper, Robin Ruffino and Danny Chong of HRAP have had their proposals approved for a skill project on Polyculture in Backyard Aquaculture. Jim Taylor's project involves the large growout pond at HBAP and he has just collected his final data. Now it's time to compile and analyze.

From the desk of Windward's Student Coordinator, Paul Williams:

WCC's MDP lobby and lounge is growing more livable by the day, with the addition of a sofa, salt water aquarium, and a beautiful, large plant donated by Pearl Takeuchi, MCC chemistry instructor. Mahalo Pearl, I just hope that it doesn't choke from the clouds of cigarette smoke emitted by lobbiers.

In addition, over the summer months, WCC's largest backyard aquaculture pend has produced gigantic, plump, succulent prawns, carp and mullet. They were harvested on September 30th

and cooked on the spot.

We would like to welcome WCC's new MDP members:
Diana Manger, who is working at Sea Life Park
with seal pups, surfers Daniel Barger and Will
Petway, a journalist Bob Doucet, and ex-fish
collector Michael Stringer who is interested
in the aquaculture ponds. Leonard Deal, another
new MDPer, wants to pursue a career in dolphin
studies. MDP also welcomes Brian Kon and Leslie
Munes to WCC's Hawaiian Backyard Aquaculture Program.
Christine Manthei was shanghaied into HBAP so that
she could log HBAP data into the computer. Glenn
Wood, seafood gournet, enjoys skin diving for
aquarium fish.

Job information is now available at the MDP office (Iolani 103; phone 235-0144). Here are two

that you may consider: Slow Poke Fish Market \$3.50/hour

Hawaiian Backyard Aquaculture Program: Aquaculture Pond Manager

Aquaculture Pond Helper See Lori for more information.

The first MOP Iguana Safari is being planned by Paul Williams and Barry Stiles. Call 235-0144 for more information.



Shark bites man, man bites shark! We're going to be real savages about it... about what, you may ask? The (first annual) "SAVAGE SEAFOOD SEACRETS." What is it-a new cult of marine vigilantes? No, it is the fundraiser sponsored by MCP for the Maui Transecting Workshop. On Friday, November 18, from 11 am to 1 pm, at the UHW Campus Center, MCP will have a platelunch sale of the most savegely delicious seafood this side of the Atlantic.

The platelunches will feature all sorts of seafood delicacies. We are still adding items to our menu, but so far we have tender smoked marlin (generously donated to MOP by Akala Products, Inc.), crispy limu tempura (to be prepared by our own Allison Chum using Heather Fortner's famous recipe), and of course the already mentioned Shark Bites, tasty bits of breaded shark for you to bite revengfully.

So come one, come all to the Marine Option Program's "SAVAGE SEAFCOD SEACRETS!!" Priday, November 18, from 11 am to 1 pm at the UBM Campus Center. Be there or be hungry. Each new building on the UHM campus is entitled to some form of artwork to adorn the new structure. What ever happened to the art piece for the Marine Science Building?



SEAWORDS

Published biweekly by the University of Hawaii-Munoa Marine Option Program. Supported by the UH Sea Grant College Program, the UH, and the State Ocean Resources Office.

Sherwood Maynard Director 948-8433 Patty Bibby Editor 948-6000 Scott Levesque Assistant Editor 948-6000

1000 Pope Road, Room 203, Honolulu, Hawmii 96822





UHM MISCELIANEOUS

Come 'n' Get it!

In the midst of our move to new offices, a box of MOP T-shirts was found. Such designs as the 1981 Ocean Fair, 1981 Fishing Derby and the old MOP boat design are included. We have a variety of sizes and colors in both male and female styles. Several samples can be seen in the lounge, room 203, on the bulletin board. The cost for your choice is \$6 each, for male or female styles. See either Annie or Dave in room 233 to make your purchase.

It's a sticky subject, but we'll peel it off anyways. The official MOP stickers are in!! They are attractive blue and white stickers with the MOP design and the words "Marine Option Program University of Hamaii" along the edges. EACH MOPer IS ENTITLED TO ONE FREE STICKER!! Stickers are available after that for one thin quarter. Get them while they are still available at the UHM MOP office, room 229.

MOP now has dive gear available to interested MOPers! Available for loan are bait backets, goodie bags, weight belts and depth gauges. Stop in to see about checking them out for your next excursion; see Daye for more details.

Call for Coral

We are about to install our massive 100 gallon aquarlum and we would like to fill it with some beautiful coral heads. Only problem is that we don't have any. So, if you are tired of worrying about your cluttering coral collection, please give MOP a call and we will be very grateful. Call 948-8433 and ask for Sherwood or Annie or Dave. Mahalol

Congratulations & Thanks

Four UHM MOP students have been hired by Sea Grant Extension Service to work with the Aquaculture Development Program on preparing a new state Aquaculture Plan: Shirley Chang, Dean Toyama, Kellie Pushikoshi and Pau King. Some students will use this for their MOP skill project. Peter Rappa is supervising their work.

Au revoir, Marianne Lantry! She won a Rotary Foundation Scholarship for the 1984-85 schoolvear at the Universite d'Aix-Marseille, in France. Congratulations, and "bon chance."

HEY!MYSTERY POSTER DONOR! Thanks a lot! Sherwood discovered four deluxe NASA oceanographic posters in his mailbox at the oceanography department recently and no one has come forward to accept the gratitude... so whoever you are,THANES!!!

The UHM-MDP lounge refrigerator smells like roses!

Thanks to Kuan Yuen! He spent the better part of

Thursday night scrubbing and toiling, and speaking

for all of us with active olfactories--MANY

MANHALOS KUAN!

BOOKS

An autographed edition of Schoomer Prom Windward: Two Centuries of Hazalian Interisland Shipping, by Mifflin Thomas, now graces the SG/MOP library collection. Stop by to peruse it in the near future.

Also in the SG/MOP library collection is Helo Harbor, the Hilo area comprehensive study conducted by the Army Corps of Engineers.

DATES

Ever wonder what goes "bump" in the night?
Well, now's your chance to find out. The crew
at MOP will be having a night snorkeling outing
at Hanauma Bay on November 11 (Vetern's DayHoliday!). Carpooling will leave the Narine
Science Building at Manoa at 4 pm. If you would
like to attend, contact Dave or Amnie at 948-8433.

Sherwood's IS 261 will be touring the UH Hyperbaric Facility 10:30-11:45 on Thursday, November 17th. A carpool will leave from Manoa and anyone is welcome; contact Sherwood at 948-8433.

Sea in Society Seeks TA

In what course could you learn about the relationships between the drug ring in Florida, the strategic significance of the Straits of Hormuz and the boat peoples of Vietnam? There is only one course, of course, that could link the many chains of the sea in society and that is Dr. John Craven's "Sea in Society" (IS 461). Craven takes the multitude of seemingly unrelated current events and shows their historical implications in relation to the sea.

Craven is now taking applications for anyone who would like to assist him with this class in the Spring '84 semester. The position as TA would serve as a skill project and a stipend is also offered. Craven said the duties would be to charter student's progress on their reports and help out with the duplication and collection of reading materials. He also said he will not be able to hold the class unless he gets a TA.

Besides detailing current events, the most important thing students learn in the class is the complete history of a coastal area of their choice. Craven asks each student to choose a watershed where they lived and to follow its evolution throughout history.

Also, at some point during the semester, the class goes out for an overnight cruise. "So people can get a first-hand experience of the ocean," Craven said.

MOPers have always had a strong showing in this class, so become a TA and serve a valuable function in MOP. Contact Sherwood or Annie at 948-8433 if you are interested.

-PCB-

Skill Project Suggestions

All of you MOPers who have been doodling fish for all these years on your lecture notes, then forgetting your works of art, now have a chance to make good your talent and time. MOP is looking for an artist to design a mural for the wall outside our MSB offices. The design could be incorporated into a skill project. If you are interested, stop by the MOP office and talk to Annie or Sherwood about it, or call 948-8433.

Another interesting skill project now available is becoming a surf instructor for MOP. We are looking for someone interested in teaching surfing for a skill project. So all you "rippers" come in and discuss this tubular project with Annie or Sherwood, Or call them at 948-8433.

Become involved in a study of Prawn Pond Ecology! Learn to sample and analyze for sediment and water quality. The project involves labwork in the Marine Science Building and fieldwork at the world's largest prawn farm (in Kahaku). We will investigate the effects of Chinese carps in prawn ponds. This project has great potential for a Skill Project. For more details, see Sherwood or Annie at our new offices (RM 229, MSB), or call Rick Jurick at 948-8964.

SPECIAL UHM-MOP EVENTS

NOVEMBER 9 & 16-WEDNESDAY:

Session II Coral and Invertebrate class for Maui Transecting Workshop participants, Call Annie or Dave at 948-8433. This class is open to the public. (UBM Compus)

Night snorkeling at Hanauma Bay (Veteran's Day-Holiday!) Carpooling will leave MSB at 4 pm. Call Dave or Annie at 948-8433 if you would like to attend.

NOVEMBER 20- Tuesday:

NOP island-wide picnic at Kualoa Beach park. ALL ARE WELCOME!! Call Annie or Dave at 948-8433.

NOVEMBER 12 & 19 -- Saturday:

Session I Coral and Invertebrate class for Maui Transecting Workshop participants. Call Annie or Dave at 948-8433 for more information. This class is open to the public. (UHM Campus) NOVEMBER 18--FRIDAY:

Seafood plate lunch sale sponsored by MOP at the Campus Center. Stay tuned to get hooked! (UHM event)

NOVEMBER 19--SATURDAY: Hanauma Bay Symposium, 8:30 a.m. to 4 p.m. at UHM (MSB Room 114). . A rare opportunity to learn all about the bay: its history, ecology and present future uses. Registration is \$2, \$5.50 with a box lunch. Call Sherwood Maynard (948-8433) or Ray Tabata (948-8191) for reservations.

DECEMBER 17 -- SATURDAY: DHM-MOP Graduation

NOVEMBER

1 Tuesday: Last day to remove an "I" grade for preceding semester at UHM.

4. Friday: Deadline for registration for Graduate Record Examinations for Dec. 10th test. 5-15: Deadline for late registration for Graduate Record Examinations for Dec. 10th test. 8-9 Tues. & Wed.: Pirst Aid class at Maui MOP- call Ric or Vicky at 242-5403 for details. 9516 Wed.: Session II Coral & Invertebrate class for all Maui Transecting Workshop participants.

Call Annie or Dave at 948-8433 for more details. Open to the public. (UHM Campus)

Wednesday: Alan Tomita and Rod Ueunten will give a talk and slide show on the Northwestern Hawaiian Islands at 6:00 p.m. in the UHM MOP lounge. Potluck pupus will be served.

11 Friday: Night smorkeling at Hansuma Bay(Veteran's DayHoliday!) Carpooling will leave MSB at 4 pm, Call Dave or Annie if you would like to attend at 948-8433.

11 Friday: Veteran's Day -- HOLIDAY!

11 & 12: Fri. & Sat.: Oahu College and Career Fair at the Blaisdell from 9:30 a.m. to 4 p.m.

12 & 19: Sat.: Session I Coral and Invertebrate class for Maul Transecting Workshop participants. Call Annie or Dave at 948-8433 for more details Open to the public. (UHM Campus)

13 Sunday: 8 hour Multimedia Standard First Aid course for Mani Transecting Workshop participants. A \$10.00 fee is is necessary. See Annie or Dave (MSB RM 233) to sign up. The class is from 1:00p.m. to 9:00p.m.

14 Monday: College and Career Fair at the Kauai Surf Hotel. From 9:30 a.m. to 2 p.m.
15 Tuesday: College and Career Fair on Maui at the Memorial War Center. From 9:30 a.m. to 2 p.m.

17 Thursday: College and Career Pair at the Hoolulu Stadium in Hilo, from 9:30 a.m. to 2 p.m.

17 Thurday: MTS meeting; Capt. Bill Coste of the USCG will give a slide show and talk on Antarctic Experiments; Campus Center, room 203A at noon.

17 Thursday: IS 261 will tour UH Hyperbaric Facility 10:30-11:45. Carpool will leave Manoa -- contact Sherwood if you would like to attend. ALL ARE MELCOME.

18 Friday: Seafood plate lunch sponsored by MOP at the Campus Center. Stay tuned to get hooked.(UFM svent) 18 Friday: College and Career Fair at Kona at the King Kamehameha Hotel, from 9:30 a.m. to 2 p.m.

from 8:30 a.m. to 4 p.m. Registration 19 Saturday: Hanauma Bay Symposium at OHM (MSB Room 114) is \$2, \$5.50 with a box lunch. Call Sherwood (948-6433) or Ray Tabata (948-8191) for reservations.

20 Sunday MOP island-wide picnic at Kualom Beach Park. Call Annie or Dave for details at 948-8433.

ZU Sunday: "Sailing Sunday" on Maui. Contact Ric or Vicky at 242-5403 if you would like to attend.

24 & 25 Thursday & Friday: Thanksgiving--No class!

29 & 30 Tuesday & Wednesday: CPR classes at Maui MOP. Call 242-5403 for more information.

DECEMBER

12 Monday: Last Day of Classes.

13-17 Tues. - Sat.: Final Exam Period 14 Wednesday: End-of-semester party at Maui MOP! Call 242-5403 for information.

17 Saturday: UHM-MOP Graduation.

University of Hawaii Marine Option Program 1000 Pope Road Rn 208 Honolulu, HI 96822

George Balasz National Marine Fisheries Serv. 2570 Dole St. CAMPUS MAIL

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Identical letters, September 9, 1983, by George H. Balazs

Big Island People Contacted

1. Mr. Alika Cooper 163 Kaiulani Street Hilo, HI 96720 FLEET 9

9. Mr. Gerald Kang 2848 Pulima Drive Hilo, HI 96720

Mr. Douglas Blake
 P. O. Box 307
 Kailua, HI 96740

10. Mr. Robert Kim 236 Kanoelani Street Hilo, HI 96720

- 3. Mr. Dexter Cate 167 Lahaina Street Hilo, HI 96720
- Gazenpeace 11. Mr. Alfred Long 104 Alse Street Hilo, HI 96720
- Mr. Ken Ellingwood 110 Huaalani Drive Hilo, HI 96720

- 12. Mrs. Ruby McDonald 75-5744 Alii Drive, #281 Kailua, HI 96740
- 5. Mr. Dave Harrington P. O. Box 4840 Kailua, HI 96740
- 13. Mr. Tom Nahiwa 2476-A Kinoole Street Hilo, HI 96720

6. Mr. Ken Hupp 913 Kaneolehua Hilo, HI 96720

- 14. Mr. Robert Nishimoto P. O. Box 936 Hilo, HI 96720
- Mr. Moses Kahumoku
 358 Eulani Street, \$104A
 Hilo, HI 96720
- 15. Mr. Howard Takata 2349 Kalanianaole Street Hilo, HI 96720

8. Mr. Bill Kalei 688 Kinoole Street Hilo, HI 96720

640

Nov. 2

AQUACENTURE

Same George se'se try to contact him. Should be no problem.

al thought you might find it helpful, tot al personally know the familie of the two people al have circled

It would be no problem to contact them of your letters haven't proved fruitful.

Moses kahumoka until il hear from you.

P.S. I REALIZE NOW THAT I KNOW MOSES, I had initially THOUGHT YOU HAD MEANT HIS FATHER BUT MOSES IS AROUND MY AGE + PLAYS MUSIC LOCALLY.

I SHOULD HAVE NO PROBLEM CONTRAING HIM.

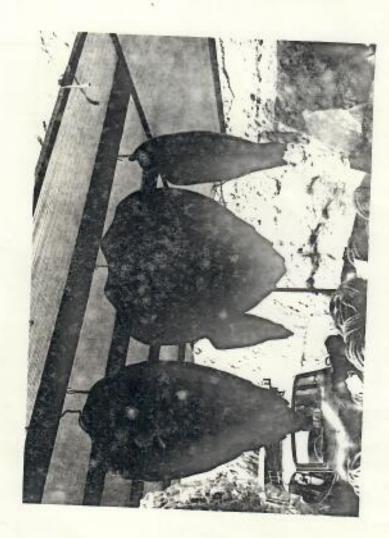
Thanks POR THE LOGS

Nov. 28,83 Doar George dust returned from Koua. Lauce pays lots of turtles (400 tb) around south point, But many openly caught + butchered on beaches, bigit prend says she called aame warden at Kahalun-Beach Parks to report a butchering by Hawaii aus but warden drove by (because le 5 Hawaia too). No enforcement over there, Dam endo sing a Joso from open warket in Valette, Malter Please

return it, please, I want to keep original copies+ will have one made if you want it. I did not jot down the prize, The cliffing says Turtles tered. It amounces a TV show on german TV on save the turtles now . There is a bill in the Bundestap to Mohibit Duports of turtle products/- to be decided soon. note to very grice. Soup + lux vry eye glasses, Aloha, Hilae,

8247 N.E. Sandy Blvd., Portland, Oregon 97220





Market in Valetta,
Malta Oct-Nov 83

(cook like loggerhends - (Scokes all striped off)



memorandum

MEMO TO: George H. Balazs

FROM:

Junko Mowaki Public Services Librarian

SUBJECT: Sea Turtles

DATE: 12/15/83

I am ashamed of myself to have let this sit so long. This was such a hectic first semester with so many replacement staff members to train.

I'm afraid that I don't have very many references to sea turtles to contribute to you. I am currently doing the current (1983) indexing to the Hawaii Tribune Herald and the West Hawaii Today (Kona). Hawaii Public Library in downtown Hilo will attempt to continue working on the backfiles where I suspect there may be more articles on sea turtles than now. I have let the head indexer know of your research so that they will be able to send you any references they come up with. Their computer terminal for indexing and other procedures is just being installed this week, as a matter of fact. We were doing manual indexing up to now.

Am enclosing three references from our clipping file. Unfortunately, our student help failed to date one of them but you can approximate the date from George Ariyoshi's acting governorship. Good luck to you. Our students make good use of your shark attack article in Elepaio.

A sticky wicket in Hilo: Molasses gums up harbor

By Hugh Clark Advertises Big Island Bureau

HILO - More than 900 tons of molasses spilled into Hilo Harbor during the weekend,

state officials disclosed yesterday.

The spill of the thick sugar byproduct kill-ed hundreds of small fish, and Hilo harbormaster Adam Vincent said it turned waters "a little dirty - sort of the color of iced

Although molasses has a distinctive odor, the spill did not cause a smell problem at the

pier, Vincent added.

Department of Health spokesman Don Herio said in Henolulu that Hilo officials were still investigating the "substantial" harbor spill, but there was no information yet on the overall impact on harbor waters. Vincent said environmental health officers visited the pier but did not tell him of any health problems.

Harbor crews removed most of the dead fish from the water, and port activities con-

tinued without interruption.

Vincent said the spill may have occurred any time between Thursday afternoon and

late Saturday, when it was discovered. The delay in recogizing the problem was because the syrupy material slipped to the bottom of

Vincent said the Danish freighter Maasstad came up several hundred tons short from the total molasses discharged by Hilo Transportation and Terminal Co., which handles sugar products for three Big Isle plantations using

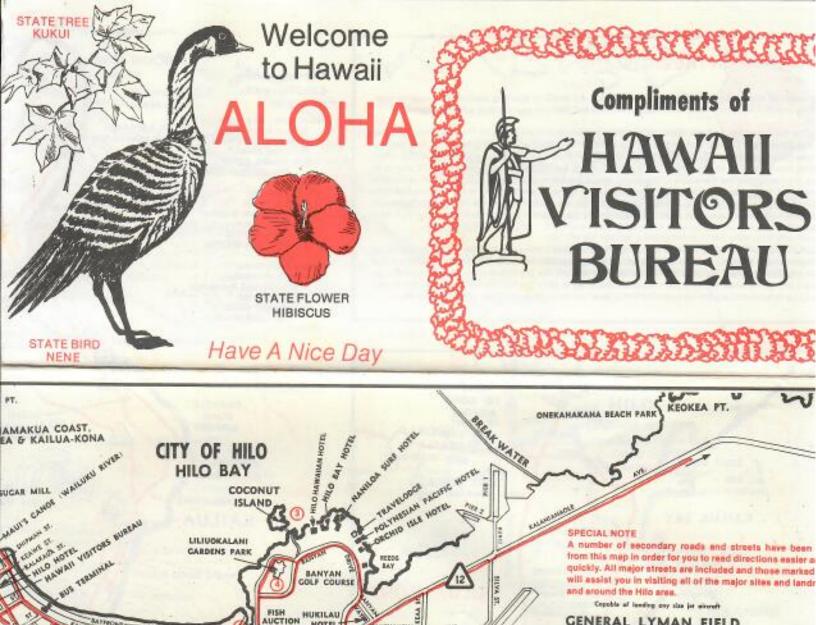
Subsequently, harbor crews discovered that the molasses broke free because of a leak in an 8-inch steel pipeline between the holding tanks and valve releasing the molasses to the freighter.

The broken line should be repaired by tomorrow, Vincent said. The next molasses ship calls Sunday.

The amount of molasses lost due to the leak was described by Vincent as a rough estimate, based primarily on the discrepancy in figures between the freighter and HT&T

Vincent said he did not have an estimate of the dollar loss for the molasses or of the cost of repairing the broken pipe under the

AUG. 9, 83 The Honolule Advertiser





HILD MUNICIPAL COLF COURSE

SHOPPING—There are several excellent shopping centers in Hilo. The Hilo Kaiko'o Mall, Hilo Shopping Center and Downtown area offer excellent buys. Waiakea Market It means "helio", "goodbye" or "love". It is generally used to express affection and warmth.

Mahalo (Thank You)

PLACES TO VISIT AND SEE

RAINBOW FALLS - One of the finest waterfalls on the Island. It's the legendary home of the Goddess Hins, mother of Maul. Gets its name by the sun casting a rainbow on the waterfall spray. Up Walanuenue Ave. keep to the right and watch for the marker.

LYMAN HOUSE MUSEUM - 276 Halli St. Old missionary home built in 1839, Completely restored, Adjacent Museum houses excellent collection of Hawaiian artifacts.

WAIPIO VALLEY LOOKOUT - At the end of route 24, past Honokaa. Celled "Valley of the Kings," was once occupied by several thousand Hawailians. Taro farming (from which Hawailian Pol is made) is still grown. Valley floor is accessible only by foot or four wheel drive.

AKAKA FALLS - One of the most spectscular water falls in the state. Located 15 miles north of Hillo on route 19 to Honomu, then up route 22 to the end. A lush tropical park of some 86 acres overlooking the 400 foot waterfall. Main waterfall drops over 420 feet.

PARKER RANCH - The second largest cattle ranch under American flag. In the town of Walmea is the parker ranch shopping center including a fine museum. From Walmea you can drive up to northern end of island believed to be birthplace of King Kamehameha the Great with a beautiful statue in the town of Kapaau.

MOKUAIKAUA CHURCH - In the beautiful town of Kallua-Kona, Reported to be one of the oldest churches in Hawaii and reflects the influence of the New England missionaries. Visitors welcome.

HULIHEE PALACE - Summer home of Hawaiian Royalty. Beautiful visitor exhibits.

COFFEE—Kona is the only area in the USA where coffee is grown commercial Coffee Co-op coffee mill is on the Napoopoo Road and welcomes visitors.

KEALAKEKUA BAY - Site of Captain Cook monument where he was killed.

CITY OF REFUGE - National historical park, Where early Hawaiians came as a and sanctuary. Was maintained by the Hawaiian priests (Kailunas). It has been ancient beauty where visitors can see how Hawaii lived and looked in ancient to

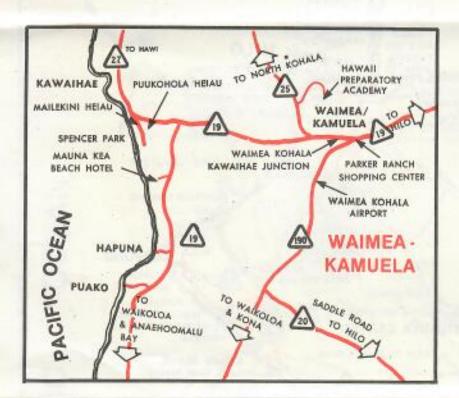
MARK TWAIN'S MONKEYPOD TREE—In Walchinu, Mark Twain planted a mor 1886. A storm in 1957 toppied it, but the roots sprouted sapplings and the tree

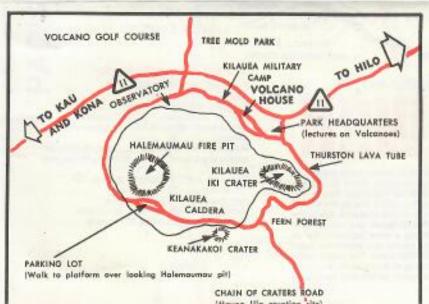
SOUTH POINT—It's the southern most point of the United States. Five mile Point is the famous Green Sand Beach, made up of Green oilvine crystals. It's a by hiking or four wheel drive.

PUNALUU BEACH—A black sand beach, believed to be landing point of the fit to Hawaii.

HAWAII VOLCANOES NATIONAL PARK - Park headquarters is just off Highwa pamphiet guides to the park are available. Best known attraction are the Haler in the Kilause Caldera, Devastation Trail, Thurston Lava tube bird park and park headquarters. If there is an eruption site, signs will be posted to best v 967-7311 for details.

KAIMU BLACK SAND BEACH - Famous as the black sand beach of Kalapan natural beach of deep black sand, fringed with hundreds of beautiful coconut t Kalapana Village and Queen's Bath, a natural pool.







our Islands. On each of the islands we have sought to

provide modern highways that ease motoring for our

residents and our visitors, yet preserve or even enhance

Don't hurry. Enjoy Hawari and its sparkling

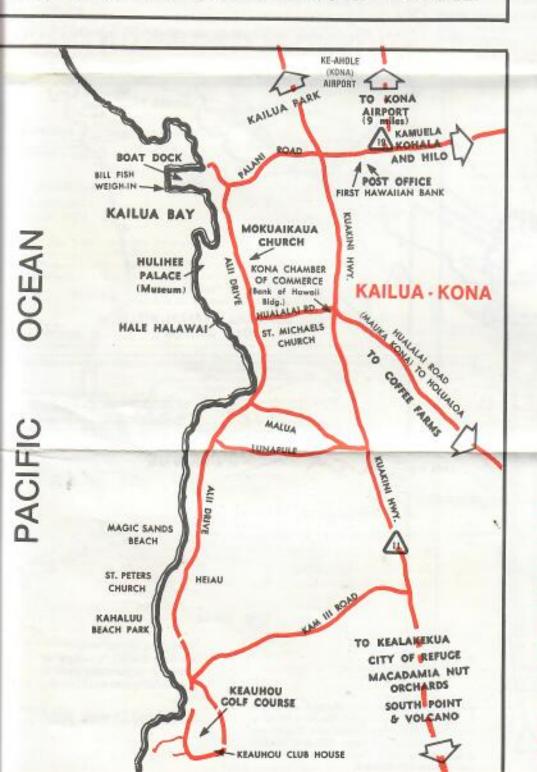
the natural beauties of our land.

RECREATION ON THE BIG ISLAND

The Big Island of Hawali has many recreational facilities. All kinds of sporting events take place on both sides of the island. Look in the local newspapers for times and dates of your favorite sporting events.

GOLF.—The Big Island has some of the most beautiful golf courses in the world. At the top of the list is the Mauna Kee Beach Golf Course. Known around the world for its beauty and exciting layout. In Hillo there is the Banyan Golf center, right opposite the hotels on Banyan Drive. The Municipal golf center in Hillo offers an exciting course to play as does the Hillo Country Club. Up the Hamakus coast there is a golf course in Honokaa, then around to the Kona side of the Island, where the Mauna Kea Beach is. Down south is the new Walkoloa Golf Course, dealgned by Robert Trent Jones. And farther down the coast is the exciting Keauhou Golf Course, built on solid lava rock. Coming up to Hilo from the south in Kau is the new Ninole Seamountain Golf Course overlooking a black sand beach and finally the beautiful Voicano Golf Course up high near the Kilauea Volcano.

DEEP SEA FISHING.—The Kona coast is one of the most famous fishing areas in the world. World record Martin catches have become the rule rather than the exception. Smooth waters, year-round fishing and a variety of big game fish are available. For those who like to hunt, the Big Island abounds with wild sheep, pigs, goets and game birds. Hunting parties can be chartered to stalk the Mountain Big-horn up the slopes of Mauna Loa or hunt chukar partridge and California Quall on the large grassy plains of the Parker Ranch.



UPOLU AIRPORT MOOKINI HEIAU Camping, Hunting, & Fishing permits, write or call: MAHUKONA Hawaii State Parks: State of Hawaii LAPAKAHI (State Historical Park) Division of State Parks 75 Aupuni Street Hilo, Hawali 96720 Ph: (808) 961-7200 Hunting & Fishing: State of Hawell KAWAIHAE Division of Fish & Game 75 Aupuni Street SPENCER PARK -Hilo, Hawall 96720 Ph: (808) 961-7291 MAUNA KEA BEACH Hawaii County Parks: County of Hawall HAPUNA Dept. of Parks & Recreation 25 Aupuni Street PUAKO Hilo, Hawaii 96720 Ph: (808) 961-8311 ANAEHOOMALU BAY KE-AHOLE (Kona) AIRPORT HONOKOHAU BOAT HARBOR KAILUA PARK KAILUA MOKUAIKAU HOLUALOA HULIHEE PALACE(10 KAINALIU MAGIC SANDS BEACH KEAUHOU KEALA KEAUHOU BAY KEALAKEKUA BAY CAPT, COOK MONUMENT-HIKIAU HEIAU NAPOOPOO HONAUNAU CITY OF REFUGE (HISTORICAL PARK) HOOKENA POINTS OF INTEREST 8-HILO BAY 9 - COCONUT ISLAND 10-AKAKA FALLS 11 - MACADAMIA NUT FACTORY 12 - WAIPIO VALLEY MILOLII 13 - PARKER RANCH FISHING 14 - KING KAMEHAMEHA STATUE VILLAGE 15 - PUUKOHOLA HEIAU 16 - MAI MAILEKINI HEIAU 17 - HAPUNA BEACH 18 - MOKUAIKAUA CHURCH 19 - HULIHEE PALACE 20 - CAPT, COOK MONUMENT 21 - CITY OF REFUGE 22 - MILOLII FISHING VILLAGE KAUNA POINT

23 - SOUTH POINT

25 - QUEEN'S BATH

27 - LAVA TREE PARK

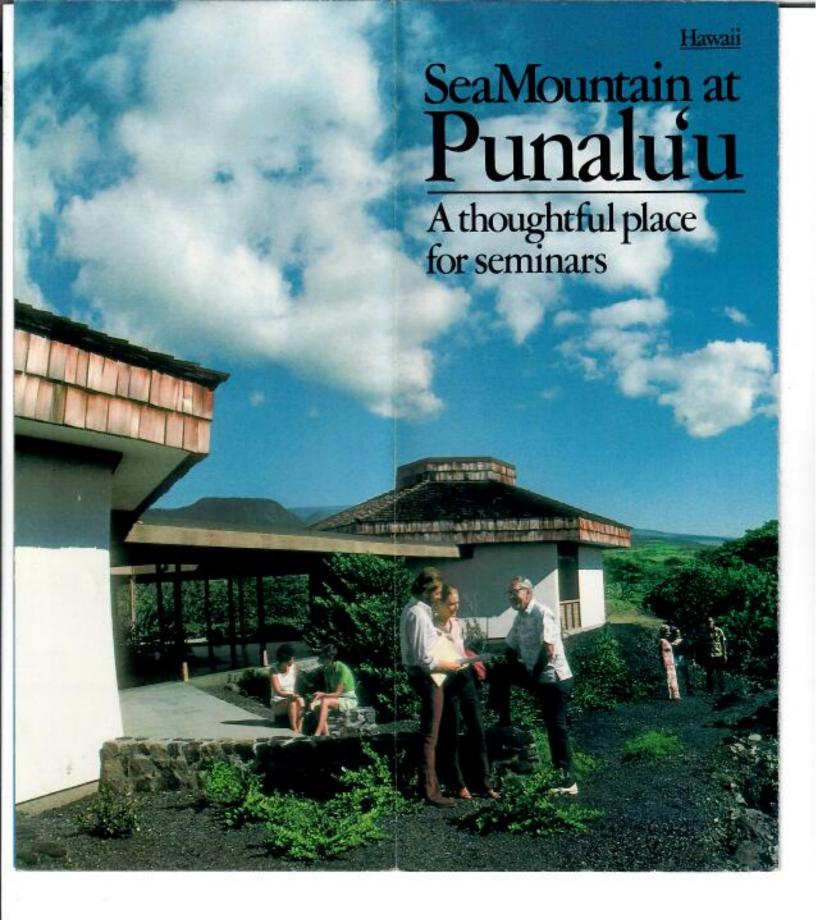
28 - MACADAMIA NUT

24 - KILAUEA VOLCANO

26 - KAIMU BLACK SAND BEACH

POHUE B

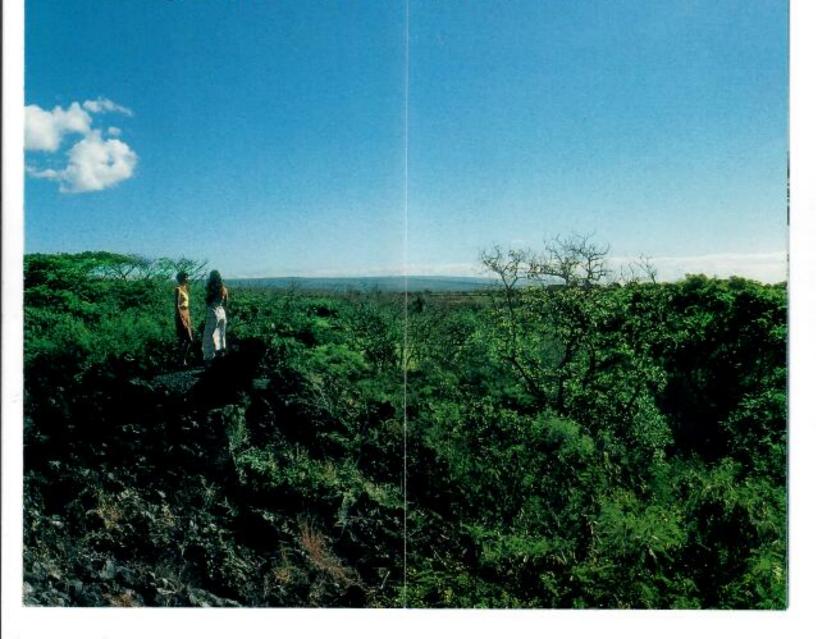




Climate and setting can calm the mind and ready it for creative thought.

So it was that the Aspen Institute selected Punalu'u to locate a unique cluster of conference spaces where men and women from around the globe share ideas and dialogue.

Similar groups make use of available meeting facilities, enhancing the community's intellectual and cultural life.



How to experience Punalu'u life

Visitors:

The Colony: Completely furnished cottage apartments. One and two-bedroom units have full kitchens, including dishwashers, washers and dryers. Studio units have compact kitchen units. Laundromat facilities, convenience store, swimming pool, golf, tennis. Minimum stay: Two nights.

Meeting Planners:

Aspen Institute-Hawaii and other conference facilities available. Ideal for groups of 50 to 100. Food, beverage service available. A short stroll

> Volcanoes National Park

SeaMountain at Punaluu

from The Colony.

How to get there—SeaMountain at Punalu'u lies halfway between Kona (65 miles) and Hilo (56 miles) airports on Highway 11; City of Kona Refuge, Hawaii Volcanoes National Park. Mauna Loa Macadamia Nut Plantation can be toured en route.

Reservations & Information

U.S. & Western Canada call TOLL FREE

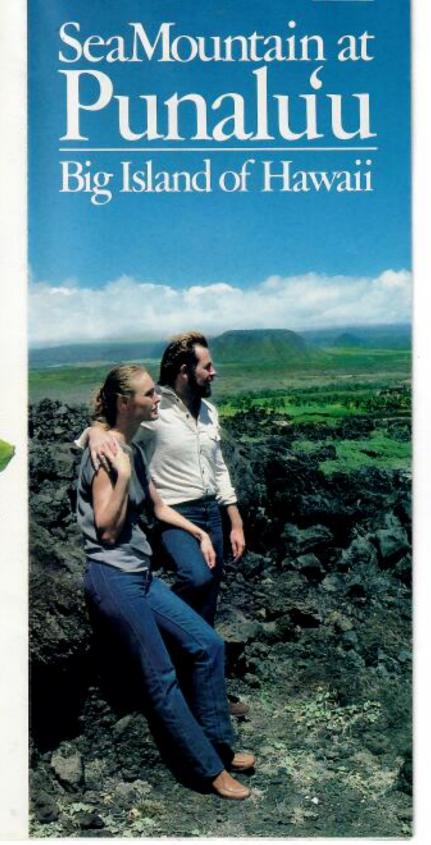
Parker Pacific Co. (800) 426-0494

Hawaii—Call Direct

Resort Sales Manager: (808) 935-0047 The Colony at Punalu'u: (808) 928-8301 OR SEE YOUR TRAVEL AGENT

SeaMountain at Punaluu

A community by Hawaiiana Investment Co., a C. BREWER company On the Big Island of Hawaii



SeaMountain at Punaluu

on the Big Island of Hawaii ... halfway between Hilo and Kona ... is set within a sunfilled, sweeping land. The land begins with black sand beaches, palm-fringed lagoons and ancient Hawaiian gathering places on the blue Pacific's edge. It climbs through sprawling ranchlands, brilliant green sugarcane fields, macadamia nut groves and tropical rain forests ... up the 13,700 foot flanks of Mauna Loa (Long Mountain) ... spacious, peaceful, seemingly without end. Truly, Punalu'u ... the jewel set in Hawaii's Big Country. Unique. A special place ... for you.

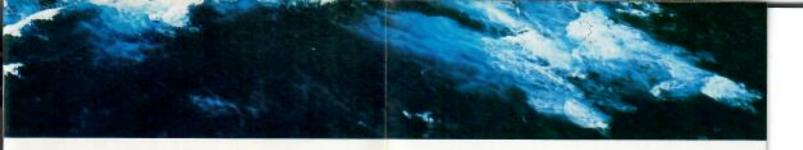




The Colony, a cluster of comfortable accommodations for visitors and village residents alike. Studio, one- and two-bedroom cottage apartments are available, completely furnished down to kitchen utensils and linens. Golf, swimming, tennis and conference facilities are a short stroll. Shop at The Colony's convenience store or at villages close by.



Play Tennis on precise, new Laykold® courts in a garden-like setting with a teaching professional at your service. The courts are uncrowded and there is always time for an extra set or two.



SeaMountain Golf Course, par 72, is one of the most beautiful in Hawaii. Mountain and ocean views from each of its 18 holes. Club house, shop and professional services. Unhurried play, challenging, yet relaxing.

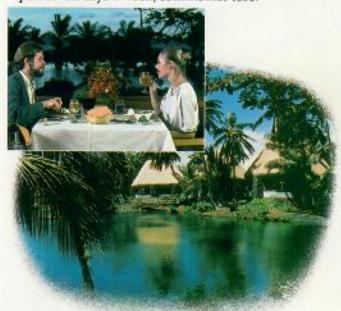


Conference Center of the Aspen Institute-Hawaii contains three meeting buildings, lanai and outdoor conversation area, plus additional facilities. Ideal for groups of 50–100 persons.



Black Sand Beaches, quiet lagoons and an unspoiled shoreline at Punalu'u are ideal for swimming, sunning, fishing, or simply beachcombing. Exploring heiaus sacred places of ancient Hawaiians—and Hawaiian petroglyphs are just two ways you are brought in touch with the rich culture of Punalu'u.

Punalu'u Black Sands Restaurant, overlooking a palm-edged, tropical lagoon separated from the Pacific by famed Black Sand Beach. Open seven days a week, continental fare.

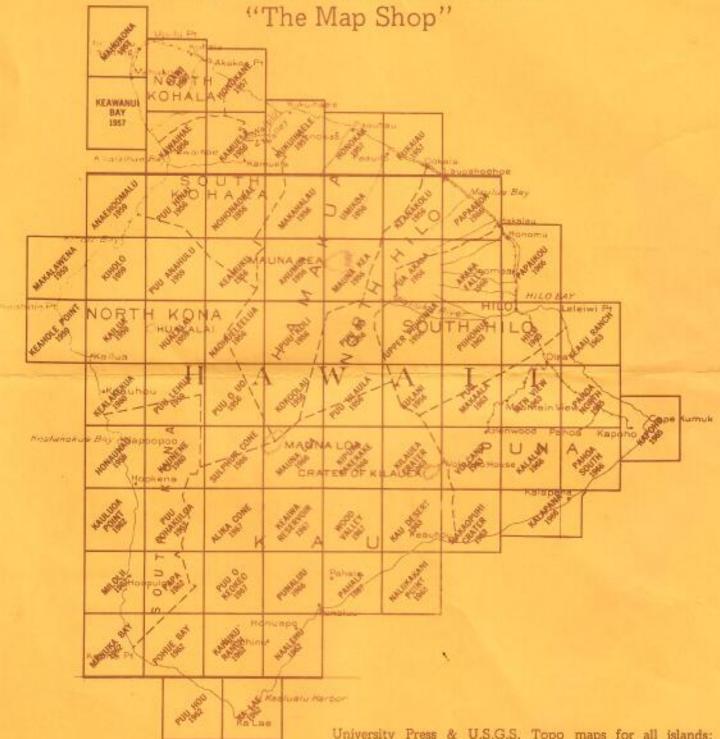


Hawaii Volcanoes National Park, 30 minutes from Punalu'u is a great natural phenomenon, where nature has chosen to renew itself . . . a unique learning experience.



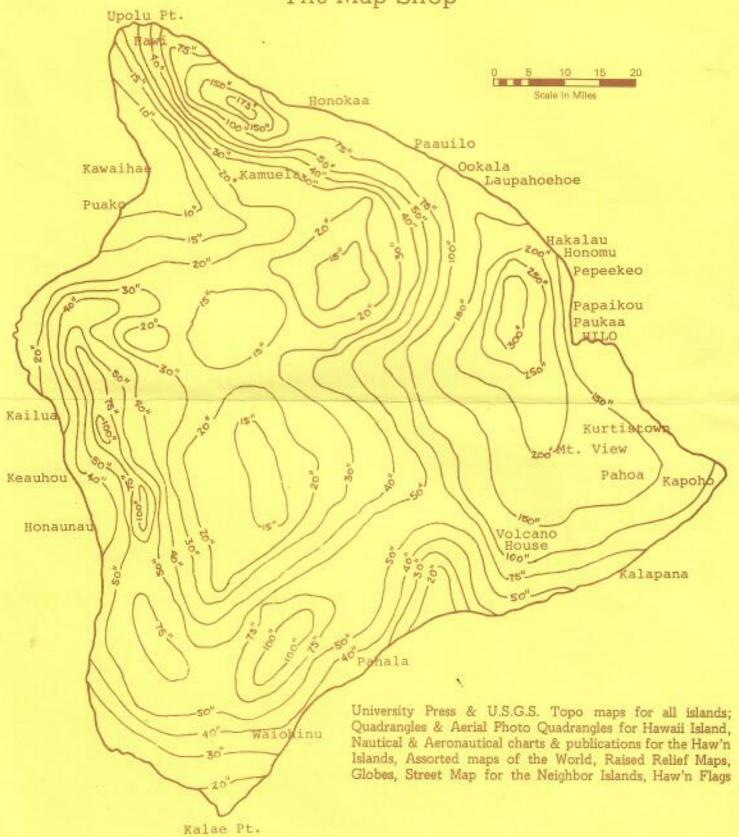


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University Press & U.S.G.S. Topo maps for all islands; Quadrangles & Aerial Photo Quadrangles for Hawaii Island, Nautical & Aeronautical charts & publications for the Haw'n Islands, Assorted maps of the World, Raised Relief Maps, Globes, Street Map for the Neighbor Islands, Haw'n Flags

Compliments of Old Town Printers & Stationers "The Map Shop"



Source: County of Hawaii, Department of Water Supply 1972 - 1973 Annual Report, Table No. 7

TOPOGRAPHIC MAP SYMBOLS

VARIATIONS WILL BE FOUND ON OLDER MAPS

Primary highway, hard surface	Boundaries: National
Secondary highway, hard surface	State
Light-duty road, hard or improved surface	County, parish, municipio
Unimproved road	Civil township, precinct, town, barrio
Road under construction, alinement known	Incorporated city, village, town, hamlet
Proposed road	Reservation, National or State.
Dual highway, dividing strip 25 feet or less	Small park, cemetery, airport, etc.
Dual highway, dividing strip exceeding 25 feet	Land grant
Trail	Township or range line, United States land survey
	Township or range line, approximate location
Railroad: single track and multiple track	Section line, United States land survey
Railroads in juxtaposition	Section line, approximate location
Narrow gage: single track and multiple track	Township line, not United States land survey
Railroad in street and carline	Section line, not United States land survey
Bridge: road and railroad	Found corner: section and closing
Drawbridge: road and railroad	Boundary monument; land grant and other
Footbridge	Fence or field line
Tunnel: road and railroad.	- Constitution of the Control of the
Overpass and underpass	Index contour
Small masonry or concrete dam	Supplementary contour Depression contours
Dam with lock	Fill Cut
Dam with road	Levee with road
Canal with lock.	Mine dump Wash
The state of the s	Tailings Tailings pond
Buildings (dwelling, place of employment, etc.)	Shifting sand or dunes Intricate surface
School, church, and cemetery	
Buildings (barn, warehouse, etc.).	Sand area. Gravel beach. Gravel beach.
Power transmission line with located metal tower.	
Telephone line, pipeline, etc. (labeled as to type)	Perennial streams Intermittent streams
Wells other than water (labeled as to type)	Elevated aqueduct
Tanks: oil, water, etc. (labeled only if water)	Water well and spring
Located or landmark object; windmill	Small rapids Small falls
Open pit, mine, or quarry; prospectx	Large falls Large falls
Shaft and tunnel entrance	Intermittent lake, Dry lake bed
	Foreshore flat Rock or coral reef
Horizontal and vertical control station:	Sounding, depth curve. Piling or dolphin
Tablet, spirit level elevation	Exposed wreck Sunken wreck
Other recoverable mark, spirit level elevation	Rock, bare or awash; dangerous to navigation
Horizontal control station: tablet, vertical angle elevation VABM Approx	
	Marsh (swamp) Submerged marsh
	Wooded marsh Mangrove
	Woods or brushwood . Orchard
Other recoverable mark, spirit level elevation	Vineyard Scrub
Spot elevation x 7369 X 7369 Water elevation 670 670	Land subject to controlled inundation Urban area

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

TOPOGRAPHIC MAP INFORMATION AND SYMBOLS MARCH 1978

QUADRANGLE MAPS AND SERIES

Quadrangle maps cover four-sided areas bounded by parallels of latitude and meridians of longitude. Quadrangle size is given in minutes or degrees.

Map series are groups of maps that conform to established specifications for size, scale, content, and other elements. Map scale is the relationship between distance on a map and the corresponding distance on the ground.

Map scale is expressed as a numerical ratio and shown graphically by bar scales marked in feet, miles, and kilometers.

NATIONAL TOPOGRAPHIC MAPS

Series	Scale	I inch represents	l centimeter represents	Standard quadrangle size (latitude-longitude)	Quadrangle area (square miles)
7%-minute 7%×15-minute Paerto Rico 7%-minute 15-minute Alaska 1:63,360 Intermediate U. S. 1:250,000 U. S. 1:1,000,000 Antarctica 1:250,000 Antarctica 1:500,000	1-24,000 1-25,000 1-20,000 1:62,500 1:62,500 1:100,000 1:250,000 1:1,000,000 1:250,000 1:500,000	2,000 feet about 2,083 feet about 1,667 feet nearly 1 mile 1 mile nearly 1,6 miles nearly 4 miles nearly 4 miles nearly 8 miles	240 meters 250 meters 200 meters 625 meters nearly 634 meters 1 kilometers 2.5 kilometers 10 kilometers 5 kilometers	7½×7½ min. 7½×15 min. 7½×15 min. 15×15 min. 15×20 to 36 min. 30×60 min. 1°×2° or 3° 4°×6° 1°×3° to 15° 2°×7½°	49 to 70 98 to 140 71 197 to 282 207 to 281 1568 to 2240 4,580 to 8,669 73,734 to 102,759 4,089 to 8,336 28,174 to 30,462

CONTOUR LINES SHOW LAND SHAPES AND ELEVATION

The shape of the land, portrayed by contours, is the distinctive characteristic of topographic maps.

Contours are imaginary lines following the ground surface at a constant elevation above or below sea level.

Contour interval is the elevation difference represented by adjacent contour lines on maps.

Contour Intervals depend on ground slope and map scale. Small contour intervals are used for flat areas; larger intervals are used for mountainous terrain.

Supplementary dotted contours, at less than the regular interval, are used in selected flat areas.

Index contours are heavier than others and most have elevation figures.

Relief shading, an overprint giving a three-dimensional impression, is used on selected maps.

Orthophotomaps, which depict terrain and other map features by color-enhanced photographic images, are available for

COLORS DISTINGUISH KINDS OF MAP FEATURES

Black is used for manmade or cultural features, such as roads, buildings, names, and boundaries.

Blue is used for water or hydrographic features, such as lakes, rivers, canals, glaciers, and swamps.

Brown is used for relief or hypsographic features-land shapes portrayed by contour lines.

Green is used for woodland cover, with patterns to show scrub, vineyards, or orchards.

Red emphasizes important roads and is used to show public land subdivision lines, land grants, and fence and field lines.

Red tint indicates urban areas, in which only landmark buildings are shown.

Purple is used to show office revision from aerial photographs. The changes are not field checked.

INDEXES SHOW PUBLISHED TOPOGRAPHIC MAPS

Indexes for each State, Puerto Rico and the Virgin Islands of the United States, Guam, American Samoa, and Antarctica show available published maps. Index maps show quadrangle location, name, and survey date. Listed also are special maps and sheets, with prices, map dealers, Federal distribution centers, and map reference libraries, and instructions for ordering maps. Indexes and a booklet describing topographic maps are available free on request,

HOW MAPS CAN BE OBTAINED

Mail orders for maps of areas east of the Mississippi River, including Minnesota, Puerto Rico, the Virgin Islands of the United States, and Antarctica should be addressed to the Branch of Distribution, U. S. Geological Survey, 1200 South Eads Street, Arlington, Virginia 22202. Maps of areas west of the Mississippi River, including Alaska, Hawaii, Louisiana, American Samoa, and Guam should be ordered from the Branch of Distribution, U. S. Geological Survey, Box 25286, Federal Center, Denver, Colorado 80225. A single order combining both eastern and western maps may be placed with either office. Residents of Alaska may order Alaska maps or an index for Alaska from the Distribution Section, U. S. Geological Survey, Federal Building-Box 12, 101 Twelfth Avenue, Fairbanks, Alaska 99701. Order by map name, State, and series. On an order amounting to \$300 or more at the list price, a 30-percent discount is allowed. No other discount is applicable. Prepayment is required and must accompany each order. Payment may be made by money order or check payable to the U. S. Geological Survey. Your ZIP code is required.

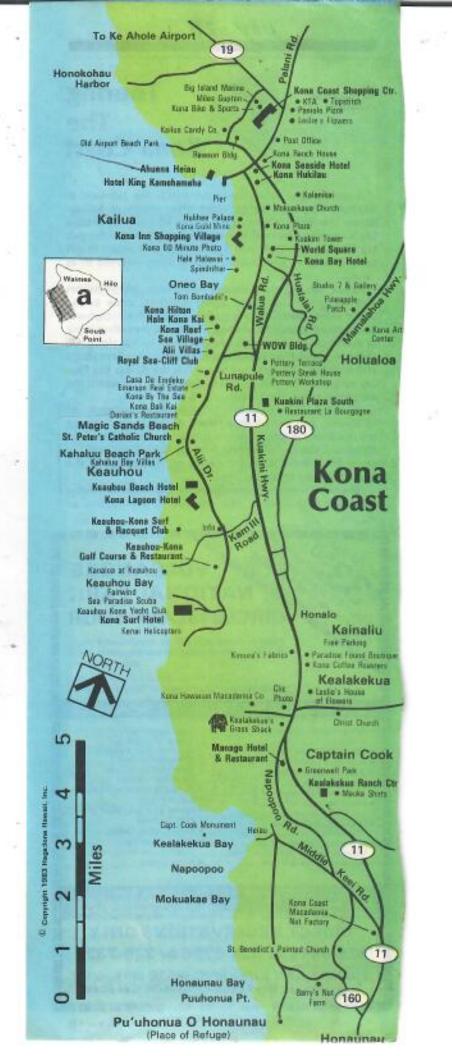
Sales counters are maintained in the following U. S. Geological Survey offices, where maps of the area may be purchased in person: 1200 South Eads Street, Arlington, Va.; Room 1028, General Services Administration Building, 19th & F Streets NW, Washington, D. C.; 1400 Independence Road, Rolla, Mo.; 345 Middlefield Road, Menlo Park, Calif.; Room 7638, Federal Building, 300 North Los Angeles Street, Los Angeles, Calif.; Room 504, Custom House, 555 Battery Street, San Francisco, Calif.; Building 41, Federal Center, Denver, Colo.; Room 1012, Federal Building, 1961 Stout Street, Denver Colo.; Room 1C45, Federal Building, 1100 Commerce Street, Dallas, Texas; Room 8105, Federal Building, 125 South State Street, Salt Lake City, Utah; Room 1C402, National Center, 12201 Sunrise Valley Drive, Reston, Va.; Room 678. U. S. Court House, West 920 Riverside Avenue, Spokane, Wash.; Room 108, Skyline Building, 508 Second Avenue, Anchorage, Alaska; and Federal Building, 101 Twelfth Avenue, Fairbunks, Alaska.

Commercial dealers sell U. S. Geological Survey maps at their own prices. Names and addresses of dealers are listed in each INTERIOR -- GEOLOGICAL SURVEY, RESTON, VIRGINIA-- 1975

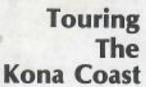
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Big Island Map Centerfold



A moonscape lava desert surrounds the runways at Keahole Airport, located eight miles north of Kailua-Kona. The Kona Coast refers to the 60 miles of Mauna Loa's and Hualalai's western slopes that are part of the two big districts of North and South Kona. The major resort town's name is Kailua-Kona, but is often referred to as "Kona."

Kailua, the Big Island's major resort town, offers visitors and residents year-round sunny weather, some of the world's best sport fishing, a quaint small town atmosphere, excellent restaurants and shopping, and a prevailing sense of romance. On your right, as you enter Kailua along Alii Drive, is Hotel King Kamehameha with its excellent shops and historical displays. Just past this is the Kailua Bay Pier. Try to get to the pier in the late afternoon to watch the weighing of the day's catch of big game fish.

On the pier's north side is tiny Kamakahonu Beach and its lagoon, and the Ahuena Heiau. Kamakahonu was the last residence of Kamehameha the Great, the unifier of the Hawaiian Islands, who died here in 1819. Daily walking tours are offered at this recently rebuilt replica of the heiau (ancient Hawaiian temple).

Down the street is Mokuaikaua, the oldest church in the islands, completed in 1837 by the first company of

VOLCANOES NATIONAL PARK CIRCLE ISLAND TOUR

Fully narrated tours in air-conditioned mini vans with personable, knowledgeable local driver guides.

Let the professionals show you the unspoiled beauty of our Island-Hawaii

- Parker Ranch (breakles)
- · Macadamia Nut Factory
- · Hamakua Coast (4 waterfalls)
- · Scenic Coastline Drive
- · Akaka Falls or
- Rainbow Falls (weather permitting):
- Hile City Tour (lunch stop)
- Orchid & Anthurium Nurseries
- Volcanoes National Park Visitors Center (Eruption Film) Sulphur Banks & Vents Observatory
- Crater Rim Drive Halemaumau Fire Pit Devastation Trail Thurston Lava Tube Fern Tree Jungle
- Punalu'u Black Sand Beach
- · South Point
- · World's Largest Mac
- Nut Orchard
- Kona Coffee Fields Kealakekua Bay
- Capt. Cook Monument · Kona Coast

HOTEL OR CONDO PICK-UP

DIRECT RESERVATIONS ONLY 329-9418 or 325-6796 or 325-7328

TOURS DAILY Office hrs 8 am-10 pm (after hrs leave message) Big Island Limousine Services

12/31/83--- 12/31/83---

4/ spec / 184 Hello George, I do hope this info. on the dives that we made here last month will saffice. Heard you'll be coming of your work on tantles of slides - will look forward to seeing you next week. Aloba, Meter Karli:



University of Hawaii at Manoa

A Sea Grant College
Spalding Hall 252 B • 2540 Maile Way
Telephone (808) 948-8191 • Honolulu, Hawaii 96822 / Cable Address: UNIHAW

Marine Advisory Program 2349 Kalanianaole Avenue Hilo, Hawaii 96720 (808) 935-3830

February 7, 1980

Mr. George Balazs Hawaii Institute of Marine Biology P.O. Box 1346 Coconut Island Kaneohe, Hawaii 96744

Dear George:

It was good hearing from you again. And thanks for the articles on turtles and the buttons.

I guess the turtle that was spotted at the Hilo Hawaiian Hotel close to shore the other week made its way into deeper water. I hope it does recover from whatever ailment it had that caused it to seek shallow water. Del Dykes, a local dive instructor, said it could have suffered from a "burrowing barnacle" or mite. Whatever it was, it sure made an ugly lump on the head and flipper of the poor animal.

We'll keep you informed on any turtle news here on the Big Island.

Sincerely,

Howard A. Takata East Hawaii Agent



University of Hawaii at Manoa

A Sea Grant College
Spalding Hall 252 B • 2540 Maile Way
Telephone (808) 948-8191 • Honolulu, Hawaii 96822 / Cable Address: UNIHAW

Marine Advisory Program 2349 Kalanianaole Avenue Hilo, Hawaii 96720 (808) 935-3830

November 24, 1981

Mr. George H. Balazs National Marine Fisheries Service PO Box 3830 Honolulu, HI 96812

Dear George,

Thanks very much for the post cards! We plan to laminate and display them at our Center. Now all we need are a set of turtle stamps to complete our display.

I have not received any reports of the turtles you released here. I will most certainly give you a call if any are reported. Generally, the surfers are too busy catching waves and are not concerned about any turtles bobbing around in the vicinity. We'll ask them to be on the lookout for any tagged turtles and will ask Joe Whitney to inform them also.

Del Dykes has been busy with exams and qualifying for a fireman's position. He has received your letter and will respond as soon as he finds some time. His latest activities involved observing autopsies and assisting in the emergency room. Yuk!

When are you planning a trip to the Big Island again? We should work on that high school presentation that we discussed toward the end of the last school year.

Mahalo again for the postcards!

Sincerely,

Howard Takata East Hawaii Agent

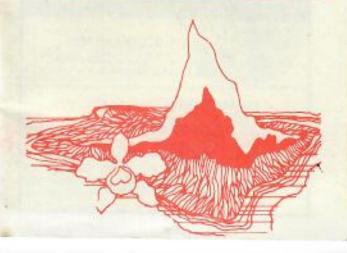
HAWAII SLE GUIDE

A COMPREHENSIVE GUIDE TO THE SIGHTS AND ACTIVITIES ON THE BIG ISLAND OF HAWAII

MAY 1977



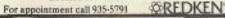
HAWAII ON HORSEBACK AT ANNA'S RANCH



Controlled circulation postage paid at Hilo, Hi. HAWAII ISLE GUIDE, May 1977, Vol. III No. 5 (formerly published as Volcano Isle Guide and Orchid Isle Guide). Published by Hale Consultants, Inc. 38 Kalakaua St., Hilo, Hi. 96720. Phone 935-2891. The Guides are distributed monthly to airlines, travel agents, hotels, restaurants, tour and U-Drives, the Hawaii Visitors Bureau and other outlets. Subscription 85.00 per year controlled circulation 88.00 first class paid postage and handling. Mrs. Helene Hale, Publisher, Brenda Kuamoo, Editor.



Natural concept in hair design for Discriminating Women & Men Located at Kaiko'o Hilo Mall



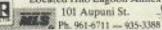




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Ala Carte Dinner

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ENTERTAINMENT NIGHTLY

DANCING until 2 a.m.

211 Banyan Drive · Hilo

Advertisers' Index..... p.47 . p.5 Calendar of Events p.4 Fun at Night (Hillo) p.16 Fun at Night (Kona) p.27 Hawaii Isle Real Estate Guide. p.32 Hawaiian Zodiac p.43 Points of Interest (Hillo) p.7 Points of Interest (N. Hilo Hamakua) p.42 Points of Interest (S. Hilo).....p.10 Points of Interest (Ka'u) p.40 Points of Interest (N. & S. Kohala) p.44 Points of Interest (N. Kona) p.29 Points of Interest (S. Kona).....p.28 Points of Interest (Saddle Road) p.17 Recreational Activities



HAWAII ON HORSEBACK

A colorful, unique, fascinating and elaborate pageant based on U.S. and Hawaii's history is produced every 2 years by society matron and rancher, Mrs. Anna Lindsay Perry-Fiske at her own ranch in Waimea. All proceeds go to the Hawaii Heart Association. Scheduled for May 21, 1977 at noon, this magnificent, nostalgic display of costumes and horsemanship is an event that should not be missed.

MAY CALENDAR

1.7 National Extension Homemakers Week

1-11 Student ART SHOW at the Campus Center at the University of Hawaii.

1-13 WAILOA CENTER Big Islands Children's Art Show. St. Joseph Carnival at the Hilo Civic Auditorium 1 grounds.

Humane Society PET SHOW at Hale Halawai.

Lei Day Contest HULIHEE PLACE.

Lei Duy or May Day.

BIIF Baseball 1:30 p.m. HPA at Ka'u, St. Joseph at 1 Hilo High, Pahoa at Laupahoehoe and Honokaa at

1-15 LITTLE GALLERY Holusion Impressions of Japan by Jeff Gholson.

Chanting Program at Kulana Naauao 7-9 p.m.

DANCE HAWAII Community Dance classes at Mountain View School Gym 6:30 - 8:30.

2 May Day Program and Lei Contest at Konawaena High School.

University of Hawali Pesticide Training Class 6:30 -8:30 room 124 Konawaena High School.

2 P & R Girls Elementary Basketball at the Hilo Ar-

3 Concert at the HILO CIVIC AUDITORIUM George Magnaa III 7:00 p.m.

DANCE HAWAII Community Dance Classes at Ship-3 man Gym in Keaau 3:30-5:30.

3 HONOKAA LIBRARY Children's Film Program 2:45 p.m. "The Princess and the Pearls" and "Moonbeam Princess".

HUI HANA LIKI at the Kulana Nasuso 7-9 p.m.

University of Hawaii Pesticide Training Class 6:30-4 9:30 Konawaena High School room 124.

4 P & R Girls Elementary Basketball at the HILO AR-MORY.

THELMA PARKER LIBRARY Kamuela same 4

childrens film schedule as Honokaa Library May 3. KEALAKEKUA LIBRARY 7:00 "Toulouse-Lautrec", "The Hunt" and "Where the Wild Things Are".

BOY'S DAY "Tango-No-Sekku", Japanese 5 traditional celebration.

LAUPAHOEHOE LIBRARY 7:00 p.m. Pilms 5 "Bayanihan"

KONA BOOKMOBILE at HONAUNAU Community 5 Center same film schedule as Kealakekua Library

KEAAU LIBRARY films at 7:00 p.m. "Karate: Art or Sport?", "The Icy People" and "Fish Naturally". BOND MEMORIAL LIBRARY Kapaau Childrens 5

5 film program same as Honokaa Library May 3, 3:30

MAY DAY Program at Kau High School 12:30 p.m.

Lyman House Memorial Museum A TICKET THROUGH TIME LYMAN HOUSE-Step over the threshold of time and relive LYMAN MUSEUM-Brightly lit galleries yield a treasure of Hawaii cultural history and nature's wonders. Open Monday through Saturday 10 a.m. to 4 p.m. 276 Halli Street, Hillo. 935-5021 Maria Commercial Comme

JADE TREE

HAWAIIAN APPAREL & ACCESSORIES 111 Banyan Dr. (next to Hibachi)

Hilo, Hawaii

Phone 935-9622

MAY CALENDAR (continued)

6 KONAWEANA High School Band Concert at the New Gym 7-9 p.m.

Big Island Outstanding Senior Citizen Ceremony, 9 a.m. at Wailoa State Park, Selection of Outstanding Male and Female over age 65 to be announced.

MAY DAY Program at Honokaa High School 10:00

6.7 Boy Scouts CAMPOREE Kons and Hilo.

Waiakea Boosters Club Carnival at the Hilo Civic 6-8

Auditorium Butler Building. VOLCANO ARTS CENTER 9-4 p.m. Stained Glass 7 Workshop with Wanda Patterson. At Old Japanese School Studio, Fee \$10. Material provided.

7 North Hilo 4-H Council MARKET DAY at Mooheau

Park.

7 Hilo College Cafeteria Tourist Council Forum "Hilo Kons the growing Visitors Island Destination" 8-2

7 Senior Class play Konawaeana School "Stack Pot"

7:30 p.m.

Konaweana Choir Concert at Hale Halawai.

HPA Faculty and Students Play at Kabilu Theater 7-8 8:00 p.m. "Stage Door" director Jack Talbat.

7-21

GARRDA Art Show at the Kulana Nasuao. County Band Concert at COCONUT ISLAND with R selected members from Hilo High School Band, also members Senior Citizens Clubs entertaining.

DANCE HAWAII Community Dance Class at the 9 Mountain View School Gym 6:30 to 8:30 p.m.

9 Hawaii County Band will play at 7 p.m. at Volleyball Tournament.

9 P & R Girls Elementary Basketball at Hilo Armory.

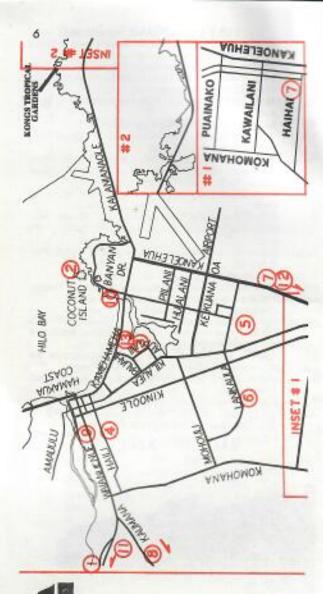
10-14 NATIONAL VOLLEYBALL TOURNAMENT at Hilo Civic Auditorium and Hilo Armory.

BACK TO NATURE



ONOMEA "ARCH" OR "SLOT"

Once this slit in the ridge that juts out into the ocean a few miles north of Hilo had a top that made the hole look like an arch. It was called then "Onomea Arch" or more popularly referred to as "Puka in the Pali". On May 24, 1956 the top fell in and the arch became only a slot, but the spot is still a lovely scenic attraction and well worth the drive down the old Mamalahoa Highway to see. To get there turn right going north just past the bridge at Papaikau, about 5 miles out of Hilo. Wind down the old coastal road, lined with Alexandra Palms. The "slot" is clearly visible as you round the corner down into Onomea



RESTAURANT OPEN DAILY FROM 7:30 A.M. Serving American & Orientel Food COLOR PHOTO SERVICE, 25%, DISCOUNT In by 4 pm. our by 10 a.m. COLORFUL MUL MULS & ALOHA SHIRTS HAWALIAN SOUVENIRS, GIFTS, RECORDS

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POINTS OF INTEREST - CITY OF HILO

Bus Terminal: Kamehameha Ave. and Mamo St. Next to Mooheau Park, Restrooms, County Buses, Ph. 935-8241, Cocount Island: Hilo Bay across Waiakea Peninsula.

Restroom facilities, access by bridge.

County Building: Aupuni St. in Kaiko'o complex. County of Hawaii administrative offices and the Mayor.

Deep Sea Fishing: Hilo Harbor. Few waters in the world rival Hawaii's bountiful blue seas when it comes to deep sea

Halli Church: Haili and Ululani Sts. Home to the Hawaii's most famous choir groups. Built in 1859 by Protestant Missionaries, the Church offers services in Hawaiian and

Hale Manu Crafts: Off rt. 11. Watch weaving of hats, purses, mats and baskets from lauhala, the sturdy leaf of the pandanus tree. Open daily. Follow Kilauea Ave. to end of town.

Hawall County Library: 300 Waianuenue Ave. Mon. - Thurs. 9 a.m. to 8 p.m. Fri. & Sat. 9 a.m. to 5 p.m. Site of the famous Naha and Pinao Stones.

Hawalian Homes Commission: 160 Baker Ave. Administrative offices and Kalananakoa Hall and Gym.

Hilo Civie Auditorium: 323 Manono St. Phone: 935-8213. Hilo High School: 556 Waianuenue Ave. Phone 935-4881.

Hilo Hongwanti Temple: 398 Kilauca Ave. Built in 1925. Oldest Japanese Buddhist mission in the state, founded in 1889. Be sure to see the Beautiful Golden Alter.

Hilo Pol Factory: 265 A Kekuanaoa St. Open Mon., Wed. & Fri. 6 p.m. to midnight. Phone: 935-1502.

Hirose Nurseries: 2212 Kanoelchua Ave. (1 mile outside of Hilo) Rare orchids and other tropical flowers. Ph: 959-8567.

Honolii Beach Park: Off Rt. 19 on the old Mamalahoa Hwy. Find out what makes it a favorite surfing site among local kids. Hoolulu Park: Behind Civic Auditorium. Baseball, football, tennis courts, swimming pool. Phone: 935-8907.

Kaiko'o Redevelopment Project: A federal-state-county project to redevelope land destroyed by the 1960 tidal wave. Land has been raised to 20 feet. Governmental center with state and county buildings and shopping complex.

Kalwiki Park: 61/2 miles up on Kaiwiki Rd. Pavilion, restrooms, hiking, picnicking, large athletic field.

Kalakaua Park: Kinoole St. and Waianuenue Ave. Former site of King Kalakaua's home. World War II Memorial.

Kaumana Caves: 5 miles up on Kaumana Drive. Natural lava tube. Hiking, picnic tables.

Kong's Floraleigh Gardens: Just past Onekahakaha Beach Park. Hawaiian Tree Fern Products and Kamaaina Crafts, A unique collection of tropical plants in a tropical setting.

James Kealoha Park: 4 miles out on Kalanianaole Ave. Swimming, picnic facilities, restrooms and pavilions.

Kulama Nanuno: 14 Keawe St. Cultural Center. Classes held, see calendar for schedule. Phone: 935-9183

Lelelwi Park: 5 miles out on Kalanianaole Ave. Swimming.

picnic facilities, restrooms, pavilions, Liliuokalani Park: Lihiwai St. and Banyan Drive. A Japanese Yedo type garden. Restroom facilities on Kainehi St. side. Picnic area toward Coconut Island side. Also featured a Japanese

tea house. Lyman House Memorial Museum: 276 Haili St. Old missionary home and new museum. Early day Hawaiiana of this region. Mon. thru Sat. 10 a.m. to 4 p.m. and Sun. 1 to 4

Mauf's Canoe: Walluku River at Wainaku St. bridge. According to legend, Maui's cance turned to stone. Look for a huge rock on the town side in the Wailuku River.

Mauna Loa Orchids: 784 Kinoole St. Orchid display and walking tour of the Orchid fields. Open daily, Ph: 935-4106. Mooheau Park: Kamehameha Ave. and Mamo St. Bandstand, athletic field, restroom and bus station. Ph: 935-8241.

Naha and Phao Stones: On the ground of the Hawaii Public Library 300 Waianuenue. The Pinao Stone was the temples entrance pillar. The Naha Stone was used to test the legitimacy of the heirs to the royal Naha line. It was said that the one who overturned the stone would rule the islands. Legend says that King Kamehameha I lifted this stone to prove his claim to the

Nani Mau Gardens: 421 Makalika St. Hilo, (Off Hwy. 11) More than 225 different exotic plants on 14 acres. Open daily. Onekahakaha Beach Parks About 3 miles out on Kalanianaole Ave. Pavilions, picnic areas, camping, swimming, wading, and restroom. Also children's zoo.

Orchidarium: 524 Manono St. Most outstanding and famous orchid garden and display. Orchid judging every 2nd Friday at 7:30 p.m. Open daily from 9 a.m. to 5 p.m. Phone: 935-8318.

Orchids of Hawall: 575 Hinano St. Open daily. Ph: 935-6617. Pithonua Boiling Pots and Peepee Falls: Home of Mother Nature's own special jacuzzi bath. A series of deep, round pools cut in the lava stream bed and linked by falls and rapids. Turbulent water flows beneath the lava and bubbles up as if it were boiling. Located about the corner of Wailuku and Peepee Falls St.

Rainbow Falls: Off Waisnuenue Ave. below the Hilo Hospital. Picnic areas and walking trails, restrooms. Legendary home of the goddess of Hina, Mother of Maui.

Reeds Bay Park: Banyan Drive just off Kalanianaole Ave. Next to Royal Kalani Hotel. Swimming, boating and restrooms.

Selsmograph Station: Kapiolani and Hualalai Sts. across from St Joseph's School. Records earthquakes.

State of Hawali Office Building: Aupuni St. at Kaiko'o Houses administrative offices for the State Government.

Sulsan Fish Market: Fish auction daily at 7:30 a.m. Lihiwai

St. on Hilo Bay. Phone 935-8051 for information.

Tree Nursery: 1643 Kilauea Ave. corner of Kawili St. 600 trees from all over the world. Open 7:45 a.m. to 4:30 p.m.

Mon. thru Fri. Phone 935-6292. University of Hawaii College of Agriculture: 333 W. Lanikaula. Phone: 961-9311.

University of Hawali Community College: 1175 Manono St. University of Hawali Hilo College: 333 W. Lanikaula St. Four year Liberal Arts College Site of Cloud Physics Lab and Agricultural Research Center, Phone 961-9311.

Wallon Information Center: In Kniko'o open area below County Building, off Pauahi St. Phone 961-7360.

Wallon State Park: North end of Pillani St. Wallon River flows from Waiakea Pond, which is fed by fresh water springs. Picnicking, pavilions, restrooms, fishing permitted with license from Fish and Game Dept. Call 961-7291.

World War II Memorial: Located in Kalakaua Park.

Waiakea Peninsula: Along Banyan Drive, Hilo's resort area. Drive named after the huge Banyan trees planted by world famous personalities.

Waiakea Village Resort & Gardens: 400 Hualani St. A unique hotel-village complex. Phone 961-3041. Zoo: Onekahakaha Beach Park. Children's zoo.

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, 3 cups celery cabbage 3 green onions

3 tablespoons salt 1 clove garlic

1/2 teaspoon chopped red chile pepper 1 teaspoon chopped candied ginger

1-1/2 cups water

Wash cabbage and cut into 1-inch squares. Sprinkle with 2 tablespoons salt, mix well and let stand 15 minutes. Wash cabbage in cold water two or three times. Cut the onions into 1-1/2 inch lengths, add remaining ingredients. Chop the chile pepper and garlic fine. Mix cabbage and prepared vegetables; put in glass or stone crock. Add enoughwater to cover the cabbage and let stand for several days. Keep cabbage under liquid with weighted dish or cover, or plastic bag filled with water. In warm weather one day is sufficient. Kim chee may be kept several weeks in the refrigerator.

PUL KO-KEE

1 pound beef 4 tablespoons sugar 2 tablespoons oil

6 tablespoons soy sauce

Few grains pepper

(Broiled Barbecued Beef)

1 green onion, chopped 1 clove garlic, chopped 4 tablespoons prepared

sesame seed 1 tablespoon flour

Cut the beef into thin sliced 3-inches square. Add sugar and oil, mix well. Combine soy sauce, pepper, chopped onion including top, chopped garlic, prepared sesame seed and flour. Add to the meat, mix well. Let stand 15 minutes.

Broil over a charcoal fire, or fry in a small amount of oil until tender. If frying meat, cover tightly after it is well browned. Add a small amount of water and steam until meat is tender. Serve hot. Makes 6 servings.

PREPARED SESAME SEED

1 cup hulled sesame seed

1 teaspoon salt

Put seed in a heavy skillet and brown slowly, stirring constantly. When the seeds are brown and rounded, remove at once from the fire and skillet. Add salt. Mash the seeds until pulverized in a small bowl or crush with pin between two sheets waxed paper. Sesame seed is used in this form in most reci-



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and restrooms.

Kulani Honor Camp: State prison camp. A good place to buy carved native wood articles. Open daily from 9 a.m. to 3 p.m. 17 miles up Stainback Highway. Off route 11 just outside Hilo. Phone 935-3758 for information.

Mauna Kea Sugar Company: At Onomea. Phone 964-1025. Onomea Fallen Arch: Turn off route 19 at Papaikou to right and follow old "Scenic" Highway. Formerly called "The Puka in the Pail", the top of the arch caved in a few years ago

Pansewa Race Track: 6 miles up Stainback Hwy. Off Rt. 11 just outside of Hilo. Features a 5/8 mi. track, full fledged rodeo arena, and 32 horse stalls. See calendar for schedules. Scenic Route: Old Mamalahoa Highway 4 miles coast drive

off Highway 19 at Papaikou.

MAY CALENDAR (continued)
KAILUA-KONA LIBRARY same film schedule as Kealakekua Library May 47:00 p.m.

10 DANCE HAWAII Community Dance Class at Keaau's Shipman Gym 3:30-5:30.

PAHOA LIBRARY 7:00 p.m. same film program as 11 Laupahoehoe on May 5.

11 HONOKAA LIBRARY 7:00 p.m. Films "And now Miguel".

PAHALA LIBRARY 7:00 p.m. same film schedule as 11 Keaau Library May 5.

12 Cubscout Leaders ROUNDTABLE.

13 DANCE HAWAII Presentation at 7:30 p.m. Mountain View School Gym.

13 Spanish Club Supper at Kau High School Cafeteria 7:00 p.m.

13 Annual Music and Arts Festival Kau High School.

The Great WAIKALOA Rope-A-Thon. 13-14

Hawaii County Womens Conference 8-4 p.m. in conjunction with the Hawaii County Commission on the State Conference of International Womens year.

14 KAWAIHAE REGATTA Kawaihae Canoe Club Races.

15 County Band will play at Hawaii Corale at the Holy Cross Church 7:30.

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HAWAII ISLE GUIDE 38 Kalakaua St., Hilo, Hawaii 96720

MAY CALENDAR (continued)

SENIOR WEEK at Hilo High School - 16- Kick Off 15-20 Rally 17- Feets of Fun 18- Senior Luau 19- Class picnic at Wailoa State Park 20- Spirit Rally and Senior Awards Banquet.

P & R Girls Elementary Basketball at Hilo Armory. 16-20 WAILOA CENTER Love of the Land is shown in

Their People Art exhibits.

17 THELMA PARKER LIBRARY Kamuela 7:00 p.m. Same film program as Honokaa Library May 11.

DANCE HAWAII Community Dance Classes at the 17 Keaau Shipman Gym 3:30-5:30.

18 P & R Girls Elementary Basketball at the HILO AR-MORY.

18 The MONTERY will be in Hilo Harbor 7:00-10:00

INTERNATIONAL Night at the Hilo Hawaiian Hotel 18 featuring the Mexicans.

18 BOND MEMORIAL LIBRARY 7:00 same film schedule as Honokaa Library May 11.

GEOTHERMAL SEMINAR at the University of 18-19 Hawaii.

19 HAWAII COMMUNITY COLLEGE Graduation at the Civic Auditorium 7:30 p.m. Keynote speaker Larry Ronson of First Hawaiian Bank Honolulu.

19 Federal Communications Commission Examination for commercial and amateur licenses State Office Building 9 a.m.

19 Scout Leaders ROUNDTABLE.

20 P & R Girls Elementary Basketball at the Hilo Ar-

20 HILO COLLEGE Graduation at the Hilo Civic Auditorium.

NA OPIO O' KUHIO Concert at the Hilo Civic 20 Auditorium.

Boy Scout Public Speaking Contest. 20 Boy Scout Swim Meet at the NAS Pool. 21

continued on page 21



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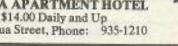
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TRAVELODGE OF HILO

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UNCLE GEORGE'S BAR: CALVIN PONCE from 6-closing Wednesdays to Sunday.

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POINTS OF INTEREST SADDLE ROAD

Mauna Kea Mountain: In Hawaiian means "White Mountain". Elevation 13,796 feet. Inactive volcano. Last eruption during the Ice Age.

Mauna Kea State Park: Pohakuloa area. Elevation 6,500 ft. Picnics, camping, hunting (with permit). Cabins available. Hale Pohaku; elevation 9,200 ft. Call Division of Parks and Recreation 885-4371 or write P.O. Box 936, Hilo 96720.

Mauna Loa Mountains: In Hawaiian means "Long Mountain". Last eruption July 1975.

University of Hawaii Institute of Astronomy: Top of Mauna Kea. Visit by permission. Site of 4 telescopes. Ph.: 935-3371. U.S. Weather Bureau Station: Elevation 11,000 ft. on Mauna Loa. Road to station branches off Saddle Road.

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The only place where you can enjoy the usual, and unusual, tropical fruits, vegetables, sandwiches, salads, banana splits royale, Hawaiian fresh fruit and milk shakes.

Beautiful Black and Green Lava Sculptures, Pendant Greeting Cards, Earring Greeting Cards, Humorous Scrolls, Floral Scenic and Washable Plastic Placemats.



Paintings of Hawaii Metal Sculptures Ceramics



Phone: 961-3041 cxt.. 244

Waiakea General Store

10% off on all Sunglasses

POINTS OF INTEREST - PUNA
Anthuriums of Hawaii: Mountain View. Famous Toyuma Red variety anthurium on view developed by owner. Open daily 8 a.m. to 5 p.m.

Chain of Craters Road: From Kalapana, the road used to connect to the Chain of Craters in the Hawaii Volcano National Park. Recent flows from the craters Alae and Makaopuhi have covered the road. Old Hawaiian villages are accessible as well as heiaus and petroglyph fields. Inquire for map at the Hawaii National Park Headquarters. Part of this road is blocked by recent flows.

Harry K. Brown Park: Route 13 also known as Kalapana Park. Picnic grounds, swimming in pond, hiking, surfing, and ancient heiau and village site. Pavilions and restrooms. Ideal

for camping.

Honolulu Landing: "Smooth Landing", route 137, north from Kapoho. In the 19th century, this bay was used as a shipping port for coffee. Bad roads.

Isaac Hale Beach Park: Pohoiki Bay, route 137. Fishing. boating, swimming, surfing, picnics, camping, and hot springs near by. Pavilion and restrooms.

Kalmu Beach: Famous as the Black Sands Beach of Kalapana. Picnics, surfing, swimming dangerous.

Kapoho: Village destroyed by the 1960 eruption. Along route 132. Cinder Cones from the 1955 and 1960 eruptions.

Lava Tree State Park: Route 132. Curious lava formations caused by molten lava coiling around tree trunks. Picnicking, hiking, pavilion and restroom.

Lava Flows: 1790, 1840, 1955, 1960. Located along the Puna rift from Kilauea crater to the sea. 1955 and 1960 flows destroyed farms, beach lots and homes. No lives were lost. Lighthouse: Cape Kumakahi Lighthouse. The 1960 lava flow

went around it. End of route 132.

Mac Kenzie State Park: Route 137. Fishing, camping, hiking on old Hawaiian trails. Pavilion and restroom.

Mountain Greenery: Keaau. Off route 13 in Keaau town. Wide selection of certified tropical plants. Available for hand carry and gift mailing. Open daily from 10 a.m. to 5 p.m.

Painted Church of Kalapana: Catholic Church, Star of the Sea, with beautifully painted murals. On route 137, just beyond Kalapana and Harry K. Brown Park. Work done by a Belgian priest in early days.

Punn Canoe Landing: Route 137, behind Painted Church. Remains of old landing used to launch canoes in the rough surf. Puna Sugar Company: Located in Keaau town. Phone: 966-

Puu Lapu "Haunted Hill": On road to Opihikao about .8 mile from Kalapana junction. Car rolls mysteriously uphill.

Queen's Bath: A lava encased fresh water pool. Swimming. Route 137, near entrance to National Park. Private grounds. Sugar Mill: Kenau - An old Plantation Building restored into

a unique Shopping Arcade. Phone: 966-9340.

Wahaula Heiau: Entrance to Hawaii Volcanoes National Park from Kalapana side, Museum and restored heiau, which was built by Paa'ao, a Tahitian priest.

Answers to Hawait Heritage Trail page 18

- 1. Naha Stone Plnao Stone, Kamehameha I
- Rev. & Mrs. David Lyman, 1832, Christian Catholic
- 1859, English, Hawallan
- 5. 53, 1700
- 1st, 2nd, Koresus, Vietnas
- 1967, 170, Urban, Renewal
- 1969, District Engineer

MAY CALENDAR (continued)

Cub Scout Field Day in Kona HAWAII ON HORSEBACK Old Pagentry Benefit for the Hawali Heart Association. Anna's Ranch I p.m. \$5.00 for adults and \$2.50 for children. Hawali County Band will be playing.

Amateur boxing at the Hilo Civic Auditorium. 21

24 DANCE HAWAII Community Dance Classes at Keaau Shipman Gym 3:30-5:30.

Music Festival at the Hilo Civic Auditorium. 26

HPA Baccalaurate Service 5:00 at the Davis 26 Memorial Chapel Service by Edmund Browing of the Episcopal Diocese of Hawaii.

DANCE HAWAII Presentation at Keaau Shipman 26 Gym 7:30 p.m.

7th Annual Woman's Fast Pitch Softball Tournament 26-29 at the Victor Stadium and Carvalho Park.

26-30 State Badminton Tournament Hilo Armory.

27-30 U.S.S. BARBELL Navy Submarine will be in Kawaihae Harbor 11:00 - 12 noon.

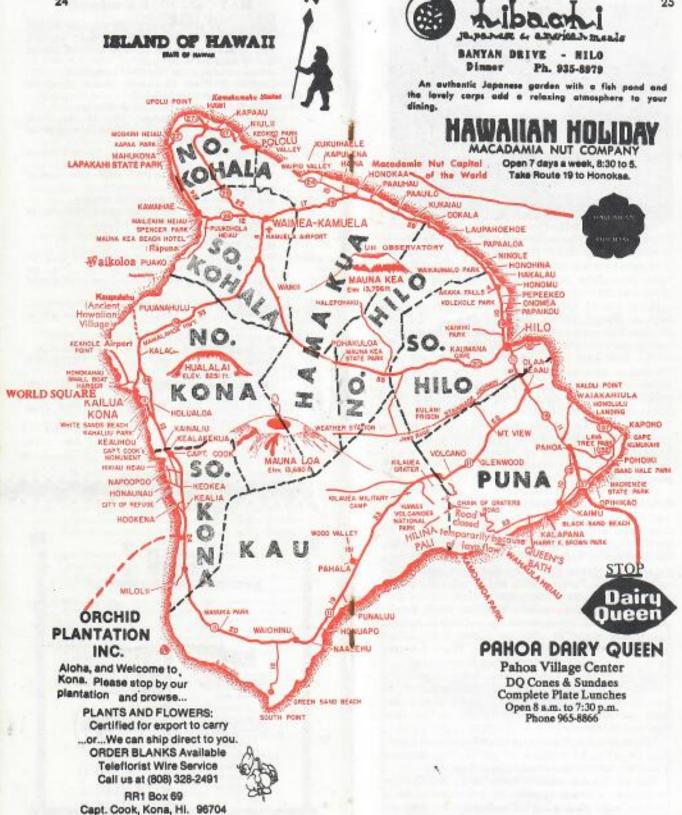
27 HPA Graduation in School Gym 10:00 a.m.

27 HULA SHOW at Hale Halawai.

- 28 9th Annual Senior Citizens Picnic at the HILO CIVIC AUDITORIUM from 9:30-2:30 p.m. Free entertainment, prizes and contests. Open to all seniors
- Amateur Boxing 7:30 p.m. Hilo Civic Auditorium. 28
- 28 MEMORIAL DAY REGATTA Kai Malia Canoe Club Hilo.
- HONOKAA RODEO Waimea Race Track 12:00. 28-29
- 29 St. Joseph Graduation at the Hilo Civic Auditorium. VETERAN'S 30
- County Band to play at the CEMETARY 9:45 a.m. Catholic Mass for MEMORIAL DAY at Hilo Civic 30
- MEMORIAL DAY Program Konaweana High 30
- School 10 a.m. ALL GIRLS RODEO 10 a.m. Waimea Race Track. 30
- MARTIAL ARTS SHOW 7 p.m. Hilo Civic 31







MEET HAWAII'S PEOPLE



Have you ever looked longingly at the tops of Mauna Loa and Mauna Kea mountains and wondered what it is really like up there? Probably most of the people who were born and raised on the Island of Hawaii have never been there. But there is a way to go and you could visit the observatories at the summit also.

If you are the adventurous spirit type you can also explore Waipio Valley, Pololu Valley, or visit the Douglas Monument above Laupahoehoe. For the hunter and the photographer this is the real Hawaii.

The best part of seeing these places with the "Hawaiian Sportsman", Frank Correia, is that he knows and loves this country, having been born and raised on Kukaiau Ranch, high up on Mauna Kea, above the sugar cane fields of the Hamakua Coast. For 25 years he worked for the ranch and roamed the vast expanses of undulating kelley green carpets of pasture highlighted with stands of ohia, koa, and herds of Hereford cattle lazily nibbling at the grass or sleeping peacefully under the trees.

Quail, pheasants, chukkar partridge as well as sheep or wild boar are prizes waiting for the hunter in season and pastoral scenes or exotic landscapes under blue skies laced with wispy, white clouds can be caught by the photographer. Frank can also take you sight-seeing on the Famous Parker Ranch. If you happen to be a guest at the Mauna Kea Beach Hotel you are allowed to hunt on the Parker Ranch and Frank will be your guide on a hunt you will long remember.

After leaving Kukaiau Ranch in 1964 Frank helped organize Hawaii Trails which specialized in hunting and nature tours. In 1970 he started HAWAIIAN SPORTSMAN to extend this service. Frank can take up to three hunters on a hunt which is conducted in 4wheel drive Toyota Land Cruiser. A fourth person is welcome to join them for the ride. There is hunting all year round for boars and rams. The bird season runs from the first weekend in November to the third

weekend in January. There is a lot of game up there." declared Frank, "but we try to be selective, to get the best trophies. You don't have to come home empty-handed."

One of Frank's favorite tours is to the Douglas Monument, where the famous English botanist, David Douglas, was killed in 1834. The Douglas Fir Tree was continued on page 43

FUN AT NIGHT

MAUNA KEA BEACH HOTEL

CAFE TERRACE: KEKAUOKA'S 6:30-8:30 p.m. Mondays. BENNY PAIVA 6:30-8:30 p.m. Tuesdays to Sundays. LEHUA NANI 9-11 p.m. Monday to Friday. BATIK ROOM: NA ALLI'S 6:30-12:30 a.m. Wednesday to

Sunday, GLEN WILLIS 10-12 a.m. Saturday to Monday.
PAVILION: LEHUA NANI 8-10:30 nightly and on Tuesday from 6-8:30 for the Luan. GLEN WILLIS 8-10:30 p.m. Saturday to Monday and on Tuesday 7-11 p.m.

KEAUHOU BEACH HOTEL

ANOTHER FOXY LADY DISCO: FRIENDS LIMITED 9closing nightly except Thursday. LUAUS: LIKO JOHNSTON and his POLYNESIANS Sunday, Tuesday & Friday 5:30 p.m. SUNSET RIB LANAI: Dinner 6 p.m. nightly except Sunday.

KING KAMEHAMEHA HOTEL
BILLFISH BAR: PHIL & DAVE 4-10 nightly except Sunday.
MARLIN ROOM: KONA GOLD 9-30-2:30 a.m. nightly except Mondays. TORCH LIGHTLIG: 7 p.m. nightly.

LUAU: 6:30-9:30 p.m. Sunday, Tuesday & Friday.

ONA HILTON

WINDIAMMER'S LOUNGE, GLEN AUNA & WEST HAWAII 9-closing nightly except Monday. JOHN AUNA TRIO 8-closing on Monday. RIB HALE ROOM: TONY SAVONNE 6:30-10:30 nightly. LUAU: In the COCONUT GROVE 6 p.m. Sunday, Tuesday and Thursday.

KONA INN

WHALER'S BAR: BOBBY & TINO 5-9 nightly except Mon. ROY ANTHONY & HIS GROUP 9-closing nightly except Sun.

KONA LAGOON HOTEL

FISHING SHACK LOUNGE: HULA TRIO 9-closing Monday & Tuesday. GENE PICKETT 9-closing Wednesday to

WATER FRONT LOUNGE: DA-BOY'S 9-closing Monday

to Saturday. LUAU: 5:45 p.m. Tuesday, Thursday & Saturday Polynesian Show by AUNTIE KAY.

KONA SURF HOTEL

NALU TERRACE: BROTHER'S IN-LAW 46 p.m. Monday to Friday. ULU NAHIEHIE GROUP 5-7 p.m. Saturday & Sun-PUKA BAR: GREG YODER & RANDY 8-midnight nightly except Thursday. POI POUNDER: TAHUNA POLYNESIAN REVUE 6 p.m.

nightly. THE PARADISE 9-closing nightly.



POINTS OF INTEREST - SOUTH KONA

Captain Cook's Monument: Located across from Napoopoo on Kealakekua Bay. Accessible only by boat or jeep trail. The Grass Shack & Exhibition Hall: Kealakekua - Coffee exhibits, Hawaiiana, horticulture. Open daily 8:30 to 5 p.m. Arthur L. Greenwell Park: Neighborhood playground and ball park. Captain Cook. Route 11.

Hiklau Helau: The temple at which Captain Cook was worshipped as the returned god, Lono. Napoopoo Beach Park. Honaunau City of Refuge: National Historical Park restored to early 1700's. Picnic area, fishing and swimming nearby,

Scheduled talks daily. Phone 328-2326.

Honomalino Farms: The largest Macadamia Nut Orchard in the state. Over 4000 acres of macadamia nut trees. Next to Jimmy Stewart's Ranch.

Hookena Beach Park: 11/2 miles off route 11 in South Kons. Pavilion, restrooms, camping, fishing, boating and swimming. Keel Park: Site of famous battle (1791), Napoopoo beach rd.
Kona Farmers Cooperative Mill: On Napoopoo road. Open
to visitors by appointment. Call 328-2411. Coffee processed from bright red cherry to roasted bean.

Mauna Kea Coffee Company: Coffee processing plant. Open daily from 8 a.m. to 4 p.m. Phone 328-5211

Miloli: 5 miles off route 11. Quaint Hawaiian fishing village. Napoopoo Beach Park: Overlooks famous Kealakekua Bay and Captain Cook's Monument. Swimming, fishing, boating,

picnicking, pavilion and restrooms. Lei seller's stand. Orchid Plantation Inc.: On highway 11 about 6 miles south of Hookens. Certified plants and flowers shipped for you. Painted Church: St. Benedict's Catholic Church with

beautifully painted murals. On middle Keei road off route 16. Sausage Tree: Located at junction of routes 11 & 16. Weird sausage like fruits.

Rodney J. T. Yano Memorial Building: Recreation. education and office complex located in Greenwell Park in Captain Cook. Phone 323-3046

KEALAKEKUA RANCH CENTER

KONA'S MOST COMPLETE SHOPPING AREA IN CAPTAIN COOK

ON THE HILL DIRECTLY ABOVE

HISTORIC CAPTAIN COOK'S MONUMENT

Sure Save Market
Ben Franklin Store Variety Store
Cap's Fast Foods Snack Bar
Cap's Fashion Things Fabrics & Notions
Terry's Fishing and Bicycle Stuff Sporting Goods
Rolf's House of Sputniks Futuristic Hamburgers
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Gift Box Locksmith & Souvenir Gifts
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Pearl's Garden Center Farm & Garden Supplies
Kealakekua Ranch Center Spaces available for rent with
and without adjoining restroom
facilities.



Piddlin Paddy Ponders Sez

If you think that the world owes you a living, don't be too impatient when trying to collect, but remember all the times when you found it hard to meet your own obligations.

....

Located across from the new Hotel King Kam

POINTS OF INTEREST - NORTH KONA

Ahuena Helau: On point across from King Kamehameha Hotel. Kamehameha's personal temple and death place. Dai Fukuji Temple: Honalo, Route 11, Buddhist art.
Deep Sea Fishing & Glass Bottom Bonts: Year round season.

Boats available for charter at Kailua wharf.

Hale Halawai: Kailua, next to Kona Inn. "Meeting House". Conventions and Cultural activities. Ph: 329-1989.

Honokahau Boat Harbor: Off route 19. Small boat harbor 4 miles north of Kailua.

Hualalai Mountain: Elevation 8,251 ft.

Hullhee Palace: Summer home of King Kalakaua. Museum of Hawaiiana built in 1838 by Gov. John Kuakini. Open Mon. to Fri. 9 a.m. to 4 p.m. and Sat. from 9 a.m. to 12 noon. Closed on Sun. and holidays. Phone: 329-1877.

Judd Trails: Overgrown ancient trail that goes over Hualalai. Starts south of Kailua.

Kahaluu Beach Parks 5 miles south of Kailua. Pavilions, restrooms, picnics, fishing swimming and surfing.

Kamakahonu: Across from King Kamehameha Hotel. Site of Ahuena heiau and the house in which Kamehameha the Great died in 1819.

Kaupulehu Lava Flow: North of Kailua, 1801.

Keahole Point: Site of Kona airport. 8 miles north of Kailua. Keauhou Beach: Birthplace of King Kamehameha III. Black sand beach and small boat harbor. Royal slide was near by where royalty tobogganed on a wooden sled down a rock wall covered with grass and Ti leaves. Keauhou-Kona resort.

Kona Arts Center and Little Gallery: Activities and exhibitions. Open daily except Sun. & Mon. from 10 a.m. to 4 p.m. Located in Holuslos.

Mokusikaus Church: Oldest church building in Hawaii and the first Christain Church built with lava rock and with Ohia beams and timbers, completed in 1837. Kailua.

Old Kona Airport: Kailua-Kona. State beach park.

Puuwaawaa: A mountain shaped like an upside-down cupcake. Site of Puuwaawaa Ranch and Volcanite quarry. Rt. 19. Saint Michael's Church: Kailua. One of the first Catholic churches in the islands. Coral shrine in yard.

Saint Peter's Church: "The Little Blue Church by the Sea". Next to Kahaluu Beach Park.

White Sand Beach: "Disappearing Sands". White sand beach

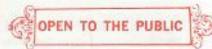
which periodically washes away. Swimming and body surfing. About 3 miles south of Kailua. Park next to the beach.

KEAUHOU KONA COUNTRY CLUB BREAKFAST WITH A VIEW

Serving the most delightful breakfast and lunch averlooking sparkling Keauhou Bay and the beautiful Keauhou-Kona 18 hole golf course.

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KONA



Name of the Subdivision	A	В	c	D	Е	F
Ainaloa	12,000	18M	C3 C5	D4	El	F6 F8
Aloha Estates (Anthurium Gardens)	12,000	19M	C1 C5	D3 D4	El	F5 F6
Fern Forest	3 acres	22M	C4	D8 D4	El	F7
Hawatian Acres	1.8- 3 acres	14 M	C4 C5	D4	E2:	F5 F8 6
Hawaiian Beaches, Parks	9,000-	25M	CI	D1 D4	The Later	F1, 2 F4
Hawaiian Fern Acres	2 acres	1931	C4	D3 D4	El	F6 F7
Hawailan Paradise Park	1/2 & 1 acre	15M		D4	E2 E3	F6, 8
Kalapana Gardens	7,500- 8,000	35M	C5	D3 D4	El	F1 6 F4, 5
Kehena Beach	8,000- 12,000	4031	C2	D1 D4	El	57
Leilant Estates	1 acre	24M	Cl	D1, 3 D4	El	F3 F8
Nanawale Estates	7,500-	24 M	C1, 3 C5	D1 D4	ES	F3, 4
Orchid Land Estates	1-3 acres	15M	C4 -	D2, 3 D4	E3	F6 F7
Royal Gardens	1 acre	40M	C5	D4	E2	F7

No.	CVIII	۲.
K	er.y	1

- A. Size of lot
- B. Miles to Hilo
- Roads
 - CI County road
 - C2 County standard C3 Private-paved
 - C4 Private-substandard no regular maintenance
 - C5 Private-substandard some maintenance
- D. Vegetation
 - Dl Lush
 - D2 Sparse
 - D3 Wooded D4 Variable

- E. Climate.
 - I Relatively wet
 - E2 Relatively dry
 - E3 Variable
- F. Utilities
 - FI Telephone
 - F2 Electricity in
 - F3 Electricity by the developer
 - F4 Water
 - F5 Buyer's
 - Depending on location

 - catchment

responosibility

No utilities

F# Water by

ALOHA ESTATES

Aloha Estates is also known as Anthurium Gardens. Located about 17 miles from Hilo, it extends north of the Volcano Highway. The roads are very poorly maintained, although the tax maps states they are government roads.

There are 1846 lots in the whole subdivision, but only 859 in the first increment. About one dozen houses have been built and electricity is part way into the area. Some of the houses do not have electricity. Water is by catchment into tanks.

One landowner successfully raises anthuriums under hapu'u (tree ferns) and most of the homeowners have lush gardens. The soil is rich and deep. Rainfall is heavy, around 200 inches a year and foliage is tropical. Lot prices are from \$3500 to 6500, and lot sizes are almost all 12,000 square feet.

For someone looking for reasonable land, a lot in Aloha Estates on or near power is about as good a bargain as is available. Since so much of Puna is rocky, the soil is its greatest asset.

G	H	1	J	K	L	Price Range
Yes	H5 H6	12 13	J2	K2 K3	L4	\$2,500-7,000
Yes	H5 H6	12	J1 J2	КЗ	1.3	\$4,000-10,000
No	H2, 4	14	J1	КЗ	L4	\$4,500-8,500
No	H2, 4 H5, 6	п	J2	K2 K3	L1 L2	\$4,500-10,000
Yes		11	J3	K2 K3	L1 L3	\$6,500-14,000
No	H1,2,4 H5 & 6	п	JI	КЗ	IA .	\$4,500-7,000
Yes	H5 H6	11	J3	К2	L1 L2	\$4,500-25,000
Yes	H5 H6	14	J2	K2 K3	L3	\$5,000-7,000
Yes	THE RESERVE AND ADDRESS OF THE PARTY OF THE	14	J1	K2 K3	L1	\$9,000-20,000
Yes	H1,2,4 H5 & 6	12	32	K2 K3	L3	\$4,500-8,000
Yes	H5 H6	12	J2	K2 K3	L3	\$3,000-5,500
No	H1,2,4 H5 & 6	14	J2	K2 K3	L1, 2 L3	\$4,500-15,000
	HG	14	31	КЗ	L1 L3	\$4,500-16,500

- G. Building & Use restrictions
- Possible Uses
 - H1 Farming tree crops
 - H2 Diversified
 - farming
 - H3 Cattle
 - H4 Flowers
- H5 Residential H6 Speculative
- Community
 - Association Il Voluntary
 - 12 Mandatory
 - I3 Depends on Incation

- 14 No association
- J. Development progress
 - J1 Poor
 - J2 Fair J3 Good
- K. Investment potential
 - KI Short range
 - K2 Med m range K3 Long range
- L. Subdivision View
 - L1 Ocean view lots
 - L2 Mountain view lots
 - L3 No view
 - L4 Depends on
 - location

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Ingrid Correia "had a calling to come to Hawaii". This is the way she explains her move from the San Fernando Valley in California to Waimea 12 years ago. At first she lived in Hilo and was attending Hilo College when she met Frank Correia. It wasn't long before a romance that started on a horseback date culminated in marriage to Frank. They have a daughter, Heidi, who attends Waimea Elementary School.

Until recently Ingrid spent most of her time taking care of her family and helping Frank in his business. Several months ago Frank encouraged her to go into business for herself so she opened the MACADAMIA NUTS Store in the Parker Ranch Shopping Center. They both felt there was a need for Waimea residents and visitors to be able to buy Macadamia nuts locally and in a natural state. Ingrid believes in simplicity, and what could be better than "Macadamia Nuts" to describe her business; so that was the name she chose.

A pretty, vivacious young woman, Ingrid has made her store an expression of her philosophy of naturalness, simplicity, and tastefulness. She has incorporated old but still useful items such as wooden school desks used for display and boards from a sugar cane flume have been made into attractive "old time" signs which decorate the walls. There is a rocking chair which beckons you to rest awhile and chat about the island. Ingrid will happily supply you with a map and offer helpful suggestions so you will get the most out of your day of sight seeing. You can also try cracking this unusual and flavorful nut as there is a sturdy hand made nut cracker mounted on one of the school desks. On her shelves you can choose from a varied display of top quality of macadamia nuts; just right for gifts or snacking, as you continue your tour of the island.

The only process used in preparing these nuts is drying the nut in the shell. She buys the nut from local farmers and has them cracked open and packaged. They are salt free and without added oil. The natural flavor is fresh and the texture is crispy.

The Correias have started the macadamia nut orchard to insure their supply but it takes 7-9 years for a tree to bear its first crop. In the meantime, Ingrid is having a ball watching her business grow and adding decorative inventory. You mustn't go through Waimea without stopping at the Parker Ranch Shopping Center and making a point of visiting MACADAMIA NUTS, It is an unique and fascinating shopping experience you can't afford to miss and after you meet Ingrid you will know why. Discount Film Processing

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ekua 322-331;

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home has 2 fireplaces, wet bar in family room, 4 bedrom, 31/2 baths. Fee Simple. In good neighborhood in Hilo. \$97,500.



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- * THE TONGA ROOM known for its delicious Buffet Breakfasts, Lunches and Dinners
- * LUAU & POLYNESIAN SHOW Every Tuesday, Thursday and Saturday
- * "MOANA KAI O'KONA

our entertainment Nightly except Monday in the Waterfront Lounge

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SENIOR CITIZENS MEETINGS: HILO Hui Aloha Phone 935-8363. KONA Kailus Phone: 329-1989, Captain Cook Phone 323-3046.

SWIMMING: HILO Hoolulu Pool 935-8970, NAS Pool 935-5379, YWCA Pool 935-1536, HONOKAA Pool at High School 775-0650, KOHALA Kamehameha Park 889-6933, KA'U Pool at High School 928-8170.

TENNIS COURTS: HILO Hoolulu Park, Lincoln Park, University of Hawaii at Hilo, Hilo Yacht Club and Waiakea Village Hotel. HAKALAU Park, PAPAALOA Park, HONOKAA at High School, WAIMEA Park, NORTH KOHALA Kamehameha Park, SOUTH KOHALA Mauna Kea Beach Hotel and Kona Surf Hotel SOUTH KONA Greenwell Park Captain Cook, NAALEHU Park, PAHALA at High School and VOLCANO Kilauea Military Camp.

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- 23-24 Executioners from Shaolin (Chinese)
- 25 (rental engagement)
- 26-29 A Star Is Born-St. Ives
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Birthplace of Henry Opukahala: Punaluu, off Highway 11. As a boy, Henry went to England and was converted to Christainity. It was due to his influence that missionaries came to Hawaii.

Crater Rim Road: An 11.1 mile drive into and around the summit caldera of Kilauea crater, across both rift zones and through rain forests and volcanic deserts.

Devastation Trail: A half-mile boardwalk over lava burned land and twisted trees caused by Kilauea Iki in 1959. Located in Hawaii Volcano National Park. Phone: 967-7311.

Green Sands Beach: 3 mile hiking trail going north east of South Point.

Halemaumau Lookout: A glimpse at Kilauea's most active vent. Located inside Hawaii Volcano National Park.

Halemaumau Trail: Trail across Kilauea Crater from Volcano House to Halemaumau.

Hawaii Volcanoes National Park: Headquarters open daily. M-F 7:30 a.m. to 5 p.m. Sat. and Sun. 6 a.m. to 5 p.m. Movies shown every hour on the hour from 9 a.m. to 4 p.m. Japanese version by advance request, only at 11:30 a.m. Phone: 967-7311. Honuspor Rt. 11, site of the old Hutchinson Sugar Mill. Home of Haauau O Ka'u community Cultural Center.

Ka'u Sugar Mill: Pahala town. Phone 928-8311. Kilauea Crater: Top of Kilauea mountain. Still periodically an active volcano. Halemaumau pit within is the ledgendary home of Madame Pele, goddess of the Volcanoes. Last eruption of Kilauea Volcano was Nov 29, 1975. Call 967-7977. Kilauea Military Camp: A rest and recreational camp within

the National Park. Phone 967-7315. Kilauea Visitors Center: Programs by park naturalists and movies of recent volcanic eruptions shown daily.

Lava Flows: 1868, 1887, 1907. On the south west side of Mauna Loa on route 11. H.V.B. Warrior Sign. Manuka State Park: Route 11. 1 mile Ka'u side of Kona bor-

der. State botanical park of native and imported plants, Camping, picnic areas, restrooms.

Mark Twain Monkeypod Tree: Waiohinu, route 11. This tree was planted by Mark Twain during an extended visit. A storm blew it over, but the roots have sent up a new shoot.

Mauna Loa: Meaning "Long Mountain" in Hawaiian, Elevation 13,680 feet.

Mokuaweoweo: Active volcano crater on top of Mauna Loa. Park service cabin available for hardy hikers. About 13,000 feet.

Namakani Paio: Picnic area within National Park. Cabins available, contact Volcano House.

Punaluu Beach Park: Pavilion, picnicking, camping, fishing, swimming, surfing, restrooms, and lei seller's stand.

South Point: Southern most point of the U.S. Polynesians landed here first as early as 1500 A.D. Ancient canoe moorings set in solid rock. Kalalea heisu.

South Point Tracking Station: Radar finder, located on road to South Point.

Thomas Jaggar Memorial Museum: Hawaii Volcanoes National Park. Informative center about Volcanoes.

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Legend Of The Boy Who Invented The Sail

Paakaa lived on an island in the Pacific with his mother. He was an adventuresome boy who at a very early age had learned to swim, surf, fish and to hew out a canoe. His mother had told him about his father who lived in Waipio Valley on the Island of Hawaii, whom he had never seen. All his training was aimed at just one thing, to cross the water between the islands to see his father.

He kept wondering how he could handle his canoe out in the deep water. He knew he would not make it with his paddles. He thought about this day and night. He would look at the trees and grass and see how the wind would move them. One day he got an idea. He looked for two high poles, they were twice as big as he was. He gathered long leaves from the Lauhala tree and wove them into square mats. He fastened these mats to the poles and put them on his canoe. When everything was in readiness he stepped in his canoe and paddled out to the deep water. His family and friends all watched him paddle out in this strange contraption and laughed. Their laughter changed to utter amazement when they saw Paakaa skim over the ocean at a great speed and come gliding in to shore ahead of the canoes of the men.

Paakaa was delighted with his invention and knew that he had found a way of crossing the ocean to see his father.

POINTS OF INTEREST - KA'U

Thurston Lava Tube: Located in the National Park it is a 450-foot long tunnel formed by a hardened outer crust of a lava flow in prehistoric times.

Volcano House: Beautiful hotel and restaurant overlooking Kilauea Crater in the National Park. Phone 967-7321.

Volcano Arts Center: Next to the Hawaii National Park Headquarters. Site of the original Volcano House. Crafts, paintings, and classes. Phone: 967-7511.

Walohinu Roadside Park: Off rt. 11, restroom and picnic area, neighborhood playground.

Whittington Beach Park: Off route 11 at Honuapo, Road branches to ocean across from old sugar mill. Picnic areas, camping, fishing, swimming, restrooms, pavilions.

Wood Valley: Road winds up into mountains and homestead area behind Pahala town.

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Honokaa Sugar Company: At Haina. Phone: 775-7261. Laupahoehoe Peninsula Park: On the peninsula 24 miles north of Hilo on route 19. Pavilions, camping, picnicking and restrooms. Swimming and fishing hazardous. Monument to 1946 tidal wave victims.

Laupahoehoe Sugar Company: At Paguilo. Phone: 962-6314. Mamalahoa Highway: Scenic route, the old and only major automobile road around the island. Lined with beautiful trees and palms.

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WELO (Apr.-May) The man born during WELO will be an illustrious person & his children will follow in is footsteps. His chief skill will be in divination & counsaling.

IKHKI (May-June) A man born during the month of IKHKI will be a man fond of farming. He will always want many people about him in his home, but his own family will be first in his affections

JUNE CALENDAR CYO Dance at Hale Halawai.

Kona Village Luncheon 11:30 - 2:00 p.m.

Installation Luncheon Program Hilo Woman's Club Kilohana Room, Naniloa Surf Hotel for information call 964-5030.

Kona Kennel Club DOG SHOW at Hale Halawai. Hilo High School GRADUATION guest speaker Pat-

sy Mink.

11

KING KAMEHAMEHA DAY.

11 Kamehameha Day REGATTA Kai Opus Cance Club Kona.

DAUGHTERS OF HAWAII 50th Anniversary 11 HULIHEE PALACE 11-5 p.m. bazaar

named after him and Frank's father helped erect a stone monument to the botanist on the slopes of Mauna Kea.

Frank is married to Ingrid and they have one child, Heidi Nile, called that because Frank admires Egyptian culture. Ingrid used to help Frank in his business but not keeps busy with her own shop. To know this Kamaaina family is to experience Hawaiian Aloha and a trip up the mountain with Frank will be a different and exciting Hawaiian tour.

POINTS OF INTEREST

NORTH HILO, HAMAKUA & HONOKAA Kalopa State Park: Located about 3 miles south of Honokaa. A state park with cabins and community hall. Peaceful forest surrounds it. Call 961-7200 for information and reservations.

Walkaumale Park: Off route 19 near Honohina. Pavilion. camping, hiking, swimming in river. Restroom facilities. A charming retreat.

Walple Lookouts On route 24 which branches off at Honokaa. 10 miles to end of road. Pavillon, restrooms, camping, hiking down into Waipio Valley.

ie Kestawiai

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Anachoomalu Bay: White sand beach, old Hawaiian fishponds, petroglyphy field, picnic area, restrooms and showers. Hapuna Beach Park: 3 miles south of Kawaihae. White sand beach, swimming and camping. Pavilions and restrooms.

Hawali Preparatory Academy: Kamucia. Private coeducational boarding school. Phone: 885-4108.

Imiola Church: Off Rt. 19 in Kamuela. Old church (1832).

Beautiful koa wood interior. HVB warrior sign. Kamuela Museum: Route 25. Exhibitions of old Hawaiiana.

Kawaihae Harbor: A deep water port.

Kohala Mountains: Elevation 5,480 ft. Oldest mountains on the island.

Mailekini Heiau: Near Kawaihae, on road to Spencer Park. An ancient temple site

Mauna Kea Beach Hotel and Golf Course: 1 mile south of Kawaihae. Fabulous resort developed by Laurence Rockefeller.

Parker Ranch: Kamuela. One of the largest ranches in the U.S. 325,000 acres. Phone 885-7311 for information.

Parker Ranch Visitors Centers See the John Palmer Parker Museum depicting the Parker family history. Thelma Parker Theatre offering a color slide presentation of the Parker Ranch story and the Duke Kahanamoku Museum. Phone 885-7311.

Petroglyphs: Built about 1580 by Lonoikamakahiki and rebuilt by King Kamehameha I about 1791 and dedicated to his war god. Kukailimoku, Off highway 27 before Kawaihae and Spencer Park roads. Phone 882-7018.

Samuel Spencer Beach Parks Off route 27, south of Kawaihae. Swimming, camping, picnicking, fishing, pavilions and restrooms.

Walkoloa Village: Via route 19, 17 miles from Waimea, 18 hole championship golf course, stables, tennis ocurts, swimming pool, a complete club house with pro shop, lounge, locker rooms, restaurant and bar.

POINTS OF INTEREST NORTH KOHALA

Kahua Ranch Roadside Park: On route 25 at top of mountain. Pavilion picnic area. Spectacular view of coastline.

Kalahikiola Church: Off route 27, east of Hawi. Congregational. Built in 1855. HVB warrior sign.

Kamehameha Park: On route 27 east of Hawi. Ball park, tennis courts, swimming pool, and grandstand. Restrooms.

Kamehameha Statue: On route 27, at Kapaau, east of Hawi Original statue recovered from sea after the Honolulu statue was erected. Located on the court house grounds. Kohala is the birthplace of King Kamehameha I.

Kapaa Beach Park: Route 27 on way to Mahukona. Fishing. pavilion, restrooms. No fresh water.

Keokeo Beach Parks Off route 27 at Niulii, east of Kohala. Pavilions, restrooms, picnicking, camping, hiking, swimming and fishing. Old heiau near by.

Lapakahi State Park: An historical park. Located on highway 27 one mile south of Mahukona. Ancient Hawaiian village site. Open daily. Ph: 889-5566.

Loran Transmitting Station: Upolu Point, U.S. Coast Guard Station.

Mahukona Beach Parks Mahukona. Route 27. Boating,

swimming, fishing, camping, pavilions and restrooms. Mookini Helau: Built by Pa'ao early Hawaiian priest from Tahiti. Take road to Upolu airport and turn west, about 1 mile. Pololu Valley Lookout: Route 27 extreme N.E. end of island. Scenic lookout and trail to beach.

Upolu Point: Northern tip of island, emergency airfield.

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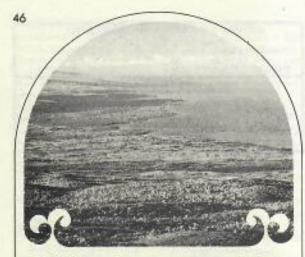
> MONDAY-SATURDAY 9:30 A.M. TO 4:00 P.M. SUNDAYS 10:30 A.M.-2:00 P.M.

THE PADDOCK Here artists and artisans from the Ranch community display their skills in a unique craft and gift center.

CORRAL A living exhibit of ranch livestock...cows and calves, mares and colts, steers and working horses that all call Parker Ranch home.

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	Walmes Landmark Estates . 46
	Parker Ranch Center 45
	Wallon Center 17
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	Hawaiian Holiday 25,42 PHOTOGRAPHY Kona Photo Center 35
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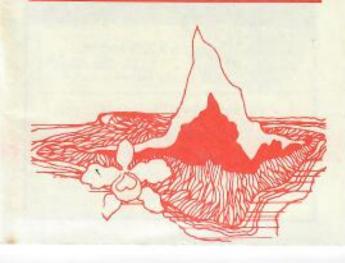


A COMPREHENSIVE GUIDE TO THE SIGHTS AND ACTIVITIES ON THE BIG ISLAND OF HAWAII

MAY 1977



HAWAII ON HORSEBACK AT ANNA'S RANCH





University of Hawaii at Manoa

Hawaii Institute of Marine Biology
P.O.Box 1346 • Coconut Island • Kaneohe, Hawaii 96744
Cable Address: UNIHAW

10 March 1981

Mr. Charles K. Supe Hawaii Branch Chief Division of Conservation & Resources Enforcement PO Box 936 Hilo, Hawaii 96720

Dear Mr. Supe:

I want to thank you very much for your letter of February 26th which provided information on turtles at Kaslualu during 1980. As you may recall, I have previously tagged turtles at this important location on several occasions. It would probably be very worthwhile for me to return there in the not to future for additional tagging. Most of my efforts during the past year on the Big Island have been directed at Kiholo Bay. I have found this site to be a critical feeding and sleeping area for immature green turtles.

How frequently do your officers encounter poaching of turtles on the Big Island? Do you get many reports of violations? I know that a definite problem exists near Punaluu (Kau), in that every time I survey the lava coastline I come across the gutted-out remains of turtles.

I thought that you would be interested in the enclosed material on sea turtles. I look forward to meeting you in person when I get to Hilo again.

Jinder City,

George H, Balazs

GEORGE R. ARIYOSHI GOVERNOR OF HAWAII



STATE OF HAWAII

DIVISION OF CONSERVATION AND RESOURCES ENFORCEMENT

1151 PUNCHBOWL STREET HONOLULU, HAWAII 96813 DIVISIONS:
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FILE NO.

April 21, 82

GEORGE

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Re turtle Poster.

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Attn C. Supe.

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Alsha torum



University of Hawaii at Manoa

Marine Option Program 1000 Pope Road, Room 229 • Honolulu, Hawaii 96822 Telephone: (808) 948-8433 January 21, 1985

MEMORANDUM

TO:

Kenji Sumida

V.C. for Administration

VIA:

Jack R. Davidson

Director, UH Sea Grant College Program

FROM:

and the arent Anne M. Orcutt

Coordinator

SUBJECT:

Room Use Request for Student Symposium

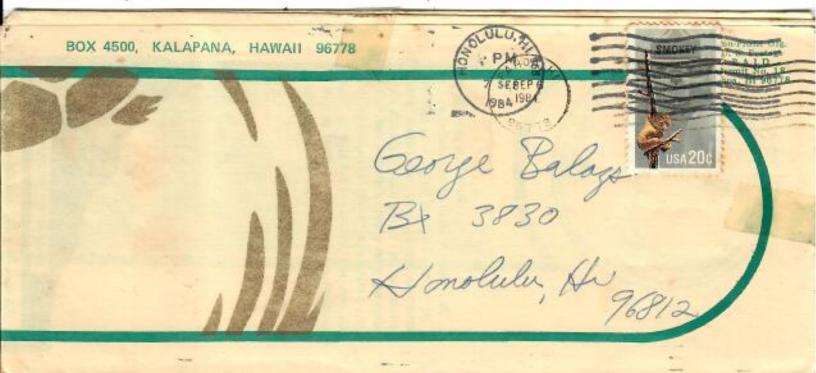
On Saturday morning, March 9, the Marine Option Program is sponsoring a symposium for our students to present the results of their 1984-85 projects. MOP students from throughout the state will be given an opportunity to make oral presentations to the public and discuss their findings with peers and professionals. The papers will be judged for awards and abstracts will be published. I would like to hold this event in our auditorium downstairs (Marine Science Building 114) which is usually secured on the weekends, and, therefore, request your permission for its use. Additionally, since this is a student symposium for which no admission is charged, could the air conditioning charge be waived. Thank you for your consideration.

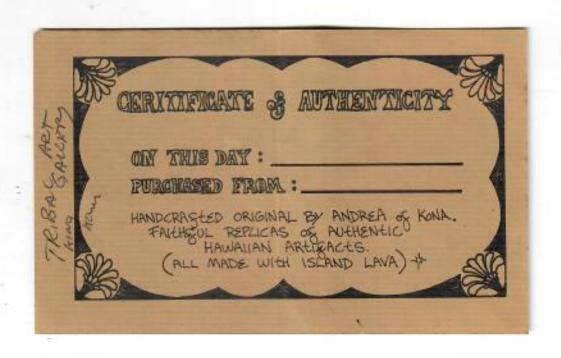
Facilities Management

Sea Grant

MOP Coordinators

AO:li



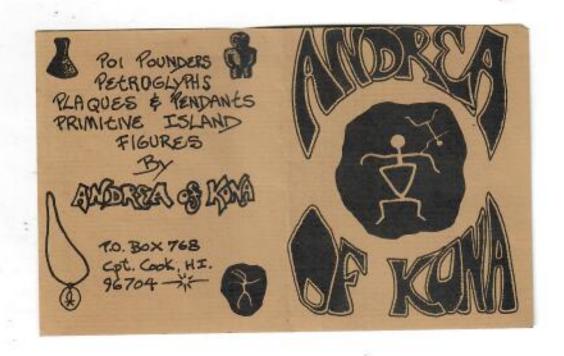


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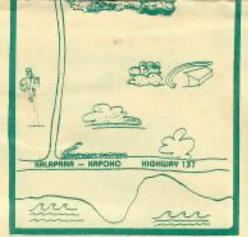
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** Programs subject to change. You will be informed about current schedule...

Thank you 50 the information sent about the green turtles. The tustles and Hawaiian hawk (Io) are rather common lere, so they became our logo - also because they are endangered + we wish to racse consciousness about their need for preservation. also the logs is inspired by the Tapaner

lawh + Turtle Respeak Kalam Honua which means "larmony of blaves and earth" The welcome you visit and would be laggry to accomodate you in etchange for a lecture (+ possible slide gresentation?) re: Et tustles. Bed wide in your good work P.S. we also have T. Short w/ our logs 935-0127

GREENPEACE HAWAII PO BOX 10909 HILO HAWAII 96721

JULY 30, 1991 * FOR IMMEDIATE RELEASE * On July 1, 1991 agents of the State Department of Conservation & Resource Enforcement (DOCARE) investigated the report of a dead sea turtle in a vacant area off Shower Drive in Hawaiian Paradise Park. They found a female Pacific Green Sea Turtle (Chelonia mydas agassizi) weighing approximately 250 pounds with no visible injuries or disease (tumors). It was apparent from flipper marks and the disturbance of the area that the sea turtle had been alive when abandoned miles from the ocean. The turtle was tagged in 1984 and had been observed basking in the sun and twice nesting at French Frigate Shoals from 1984 - 89.

While talking with enforcement officials about this incident, Greenpeace Hawaii learned that two smaller Green Sea Turtles had been found dead on the side of Kahakai Boulevard, Hawaiian Beaches, in April of this year. These turtles also had no visible signs of injury.

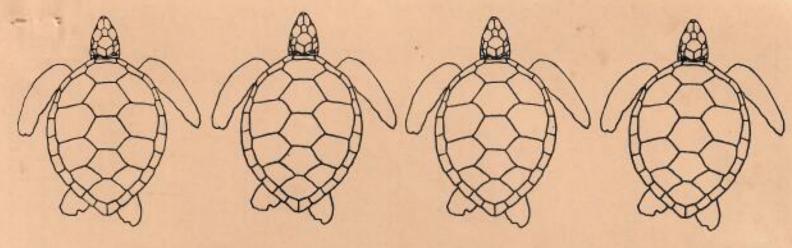
The Pacific Green Sea Turtle is fully protected under the Endangered Species Act. Violators of this Act face Federal and State penalties of up to \$25,000. in fines and one year in jail. It is illegal to take, harrass or impact a sea turtle in any manner. Even grabbing onto their shells while swimming or diving is a violation of State and Federal laws.

There are only 750 mature females in Hawaii. The dead female found in Paradise Park was a proven bearer and could have laid up to 3 clutches of 100 eggs each per nesting season for the rest of her life. This makes her loss particularly tragic.

Greenpeace Hawaii is offering a reward for information leading to the apprehension and conviction of the persons responsible for the death of this sea turtle. Anyone with information about this incident can call: State Dept. of Conservation & Resource Enforcement 933-4291, National Marine Fisheries Service (Honolulu) 1-541-2727, U.S. Fish & Wildlife Service (Honolulu) 1-541-2682 or Greenpeace Hawaii 935-0770. Also, if you see anyone taking or harming a sea turtle, obtain as much information as you can -- time, location, vehicle license number, description of individuals involved, names and phone numbers of additional witnesses -- and call any of the agencies listed above. The sea turtles need our protection. Thank you for your help.

-30-

Contact: Denver A. Leaman, Executive Director - 935-0770



REWARD

FOR INFORMATION LEADING TO THE APPREHENSION AND CONVICTION OF THE PERSONS WHO CAUSED THE DEATH OF A PACIFIC GREEN SEA TURTLE. DISCOVERED ON JULY 1, 1991, THE 250 LB. SEA TURTLE WAS REMOVED FROM THE OCEAN AND ABANDONED —— ALIVE —— IN A VACANT AREA OFF SHOWER DRIVE IN HAWAIIAN PARADISE PARK SUBDIVISION, PUNA. THE SEA TURTLE WAS TAGGED AND HAD BEEN OBSERVED FROM 1984 THROUGH 1989 BASKING IN THE SUN AND TWICE NESTING AT FRENCH FRIGATE SHOALS. WITH ESTIMATES OF ONLY 750 MATURE FEMALES IN THE STATE, THE LOSS OF THIS NESTING FEMALE IS PARTICULARLY DEVASTATING.

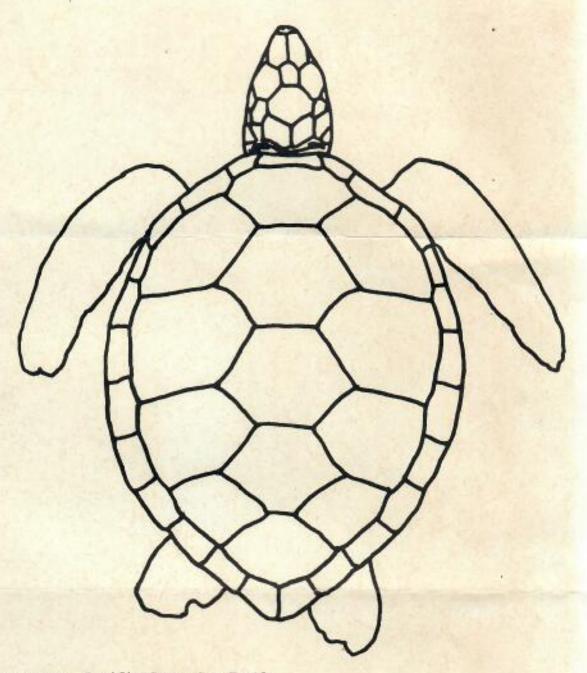
THE GREEN SEA TURTLE LIVES IN THE OCEAN WATERS SURROUNDING HAWAII AND IS FULLY PROTECTED BY STATE AND FEDERAL LAWS. HARMING A TURTLE IS A VIOLATION OF THE ENDANGERED SPECIES ACT WITH PENALTIES OF UP TO \$25,000. AND/OR ONE YEAR IN JAIL.

IF YOU HAVE INFORMATION REGARDING THIS INCIDENT OR SEE SOMEONE TAKING OR HARMING A SEA TURTLE,

PLEASE CALL:

STATE DEPT. OF CONSERVATION & RESOURCE ENFORCEMENT 933-4291
NATIONAL MARINE FISHERIES SERVICE (HONOLULU) 1-541-2727
U.S. FISH & WILDLIFE SERVICE (HONOLULU) 1-541-2682
GREENPEACE HAWAII 935-0770

Sources WILL BE TREATED CONFIDENTIALLY.



Common Name: Pacific Green Sea Turtle

Named For: Color of its fat

Scientific Name: Chelonia mydas agassizi

Hawaiian Name: Honu Status: Threatened

Average Size: 200-250 pounds with 3½ foot shell Shell Color: Olive brown with darker streaks

Habitat: Central and tropical water; inside reefs and bays.

Food: Mostly herbivorous - eats sea grasses, algae, occasionally small crustaceans

Threats: Commercial fishing, pollution, habitat destruction



United States Department of the Interior NATIONAL PARK SERVICE HAWAII VOLCANOES NATIONAL PARK HAWAII 96718

N1415 (HAVO)

September 14, 1982

Jantaylon - Resource Management

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

Dear Mr. Balazs:

On August 12, one of our rangers reported evidence of sea turtle nesting activity at Apua Point approximately 3 miles north of Halape. The ranger reported seeing seven areas where nesting was attempted but apparently only three sites where sand was actually heaped into mounds. The others were left uncovered. Nesting mounds are approximately 100 feet above the high tide mark. They are 10-15 feet apart and heaped 1-11/2 feet high.

I'11 keep you posted for any additional sightings we might discover.

Thank you for the sea turtle poster.

Sincerely,

Bob Seibert Backcountry District Ranger



University of Hawaii at Manoa

P.O.Box 1346 • Coconut Island • Kaneohe, Hawaii 96744 Cable Address: UNIHAW

November 15, 1982

Mr. Bob Seibert Backcountry District Ranger Hawaii Volcanoes National Park Hawaii 96718

Dear Bob:

Enclosed is the newspaper article about Halape that I promised to send you during our telephone conversation on October 27th. I feel that writer John Perry did a fine job, especially in describing the turtle nesting episode. As I mentioned to you in my post card, John previously telephoned this information to me after getting my name from someone at the Department of Land and Natural Resources.

You asked me to offer ideas for enhancing the survival outlook of sea turtles and their nests in the Park. The following represents some general thoughts, however, keep in mind that I have not personally visited Halape. I will make it a point to do so on my next visit to the Big Island.

- 1. Sea turtles, both hawksbills and greens, are a component of the Park's fauna that are protected under the Endangered Species Act and Wildlife Rules of the State of Hawaii. Since there is definite concern on your part that nesting turtles and/or eggs might be taken or vandalized, I think it is entirely appropriate to somehow notify Park visitors that they are protected and that fines can, and do, result for violations (\$1200 and \$1400 in two recent cases I know about). Park visitors could be notified by diplomatically-worded signs placed at strategic but secure locations. If camping and hiking (or other) permits are required for Park activities, then one of the conditions of the permit could be abiding by laws protecting sea turtles. You may already have such a condition for fauna and flora, but it would be better to spell out those species that occur within the Park covered under the Endangered Species Act. In considering the above, please keep in mind that I am not suggesting you focus specific attention on the nesting at Halape. Rather the information would simply state that sea turtles and nests are protected throughout the Park's coastline.
- 2. Cats and mongoose are known predators of hatchling sea turtles, but cats undoubtedly cause more problems due to their nocturnal activity which coincides when hatchlings are most apt to emerge. Cats probably occur more heavily in the Halape area than other coastal Park areas because of frequent camping and and the resulting food scraps. I suggest targeting this area for periodic trapping and shooting of cats.

Mr. Bob Seibert November 15, 1982 Page 2

3. If Park personnel are in the area after a nesting has taken place, they should "erase" any tracks that are still visible in the sand. During our telephone conversation, you asked about possibly leveling out the "mound" at a nest site. After giving it some thought, I think it would be better to fill-in any existing hole or dug-out area with sand taken from an adjacent area (but not from the mound). Leveling the mound might very well reduce the depth of sand over the egg clutch and alter the incubation temperature, which in turn could change the natural sex ratio of the hatchlings.

I am pleased to learn that you are interested in undertaking some special management measures for turtle nesting at Halape. One of these days I anticipate that the Fish and Wildlife Service will formally propose the designation of Critical Habitat for sea turtle nesting beaches in the Hawaiian Islands. Halape will undoubtedly be a candidate, and in my view certainly should be so designated.

I hope that we can still get together for lunch during your next visit to

Sincerely,

Learge GEORGE H. BALAZS

Assistant Marine Biologist

GHB: ec

Encls.

cc: Brian Harry

ons for 200 years passed south of the islands once a year from Acapulco, Mexico, to Manila. The islands lay bracketed by the Spanish colonies of Guam on the west and Mexico and California on the east for this period.

It is unknown how many times the Spaniards sighted or landed upon them. However, a galleon's map captured by Lord Anson in 1743 (33 years before Cook) shows the islands that the Spanish named La Mess and Los Monges in sufficient proximity to Hawaii to stir up a controversy for the past 200 years as to whether these were actually Hawaii. In 1806 James Burney, the British Admiralty's official historian and one of the greatest of all time, (incidentally a lieutenant on the Discovery on the Third Voyage by Cook) rendered the opinion that these islands were Hawaii:

La Mesa and los Monges are supposed to be the Islands at present named the Sandwich Islands, but the longitude in which they were found by Captain Cook has been an objection. La Mesa (supposed to be the Island Owhyhee) is laid down in the chart showing the track of the galleon, 100° 30' E from the Emboc. de San Bernardino, which is equal to 224° 15' E of Greenwich. Owhyhee, the body of it, according to modern observations, is in 2031/2° longitude E of Greenwich, which is a difference of above 20 degrees, and a larger error than can

nungry populaci

When the two ships came abreast of the area occupied by the Mauna Kea Beach Hotel, a typical winter kona storm broke, with the result that the stays of the Resolution's main mast were damaged and Capt. Cook had to return to Kealakekua to repair the damage. Little did the captain know that the exposure of Kealakekua is such that had this storm broken when he was there, his two ships would have certainly been driven ashore and lost.



James Cook

THE DEATH OF Cook then followed as a result of several miscalculations on his part.

The first was his failure to properly assess the attitude of the populace after the British tars had consumed

This view of Capt. Cook's ships Britain's recognized top illustrat first recorded sketch of a man Hawaiians show a variety of size

and ended in 1781. It is estimated that 5,000 sets of these volumes were printed by the Admiralty in several editions. In addition to these summaries, "bootleg" editions were issued and innumerable private abridged editions also appeared.

From that day to this, hundreds of different books about Cook's voyages have appeared, even translations into foreign languages. One of the last to be discovered is a small Portuguese edition which the writer picked up in Lisbon several years ago.

TO PROPERLY orient oneself on Cook, the principal purpose of each voyage must be understood.

His first mission was to proceed to Tahiti to observe the transit of Venus.

The second voyage was to determine the existence or nonexistence of a great continent in the southern hemisphere.

In the third voyage he was ordered to make one last effort to determine the existence or nonexistence of a Northwest Passage to open up a direct trade route from Britain to the Far East.

In those three voyages he accurately mapped the bulk of the uncharted portions of the globe.

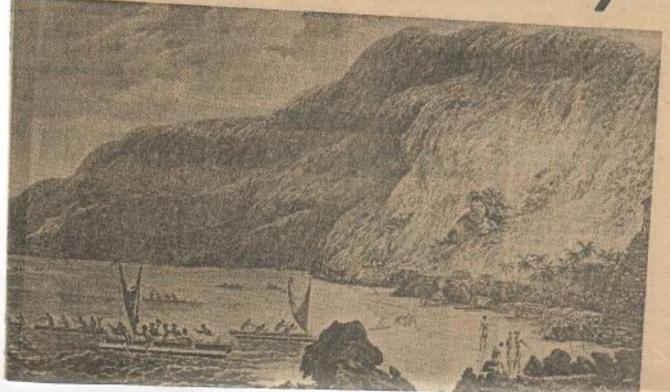
CONSIDER THAT his circumnavigation of the southern hemisphere placed that enormous section of the earth on the maps for the first

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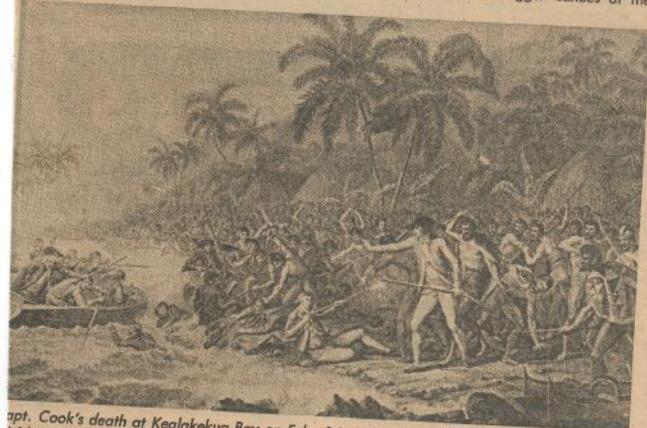
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Monday, October 13, 1975 Honolulu Star-Bulletin A-17

Hawaii's Discovery



in Kealakekua Bay in 1778 or 1779 was sketched on the scene by J. Webber, one of Great ors, who was assigned to accompany Cook's mission of exploration. So far as is known the on a surfboard is that of the figure in the left foreground. The outrigger canoes of the



apt. Cook's death at Kealakekua Bay on Feb. 14, 1779, was not witnessed by the artist, J. ene. Based on the sketch, says Wendell Carlsmith, the spot where Cook fell can still be entified today.

במנו פנוון מה be conceived to have been made in so short a run as from the coast of New Spain. But according to Bueno's table, la Mesa is 214 ° 05' E of Greenwich, which differs from the known longitude of Owhyhee only 10° 35'; and the manuscript chart quoted gives the difference not quite eight degrees. The name la Mesa signifying the Table, is de-scriptive of the high level land of Owhyhee. The lati-tude accords; la Mesa also is laid down to the SE of the other Islands, all which leaves little reason to doubt the identity of la Mesa and Owhyhee.

But when the Sandwich Islands became publicly known to the Western world through Cook, the discovery was attributed to him and by modern standards of what constitutes discovery this honor rightfully fell to Cook.

AS COOK proceeded north from Christmas Island, which was discovered on Christmas Day, he came very close to missing the Hawaiian Islands. He had sailed far to the east of Oahu, Maui, and Hawaii, and had sighted none of them. He bumped into Kauai after seeing numerous birds for some days which were tell-tale evidence of the presence of land. After picking up supplies of yams, which abounded on Nilhau, and as many pigs as he could and refurnishing his water supply, he sailed north to carry out

so much food.

The second was an earlier miscalculation when he permitted the natives to believe that he was their god, Lono, returning. He paid dearly for accepting this false mantle. Cook groaned when struck just prior to the assassination. Gods in the natives' eyes didn't groan.

The third was his attempt to take and hold the king as a hostage for the return of a cutter stolen from the Resolution. The result was that when Cook and his marines went ashore to entice the king aboard, the already angry mob went wild and attacked him.

Almost immediately after his death, calmer heads among the chiefs restored order and Cook's body was given the treatment afforded to the highest of the alii or nobility. As was the custom for chiefs and royalty, the flesh was stripped from the bones. This resulted in the Hawaiians being accused in Britain of cannibalism. The Hawaiians had no press relations to refute this and the unfair verdict persists to this day in Britain.

It is only relatively recently that the academic world has come to the conclusion that Cook—the last of the great discoverers—was the greatest of all time.

It is astonishing that he should have mapped and oriented a greater portion of the surface of the world than any previous discoverer.

Cook set out on three great voyages of discovery under orders of the Admiralty, all detailed in eight volumes of text and one of maps and prints. These voyages started in 1768

time and with deadly accuracy at that.

Add to this the vast expanse of the Pacific Ocean, including most of New Zealand and Australia, and the areas to the north and west which were brought to light by Cook.

Before Cook, the entire southern hemisphere was considered to be a great continent heavily populated in the opinion of the armchair "discoverers" in Great Britain who had never been to sea.

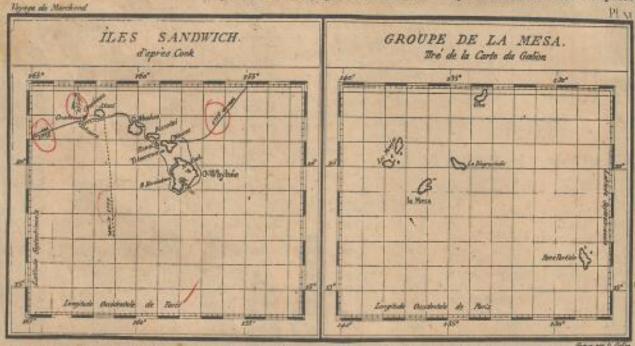
Even after Cook sailed through this "continent," the fact of its existence was still insisted upon in England by Alexander Dalrymple, the Scottish geographer, and his followers in a famous last ditch controversy.

More books have been written of and about Cook than any discoverer in history and probably more than all the rest combined. In three voyages he tied together in accurate maps the great unknown parts of the earth. The latest bibliography on Cook supersedes numerous previous ones listing and describing his voyages and is in itself a major volume.

COOK started on his third and last exploration at the beginning of the American Revolution.

As the Resolution weighed anchorage at Portsmouth at the commencement of the voyage, Cook came across 52 transports in convoy with three British man-of-war which were moving the famous "hired Hessians" to North America to put down the American rebellion.

I have read and re-read the eight volumes of the Admiralty Edition of the three voyages and this is the only instance where Cook expressed



Capt. Cook's 1778-79 explorations located and charted the Sandwich Islands (Hawaii) as shown at left. Earlier, Spaniards had charted islands at the same latitude but a different longitude, as in the chart at right. Were la Mesa and los Monges really an early "discovery" of Hawaii, with the longitude poorly measured?

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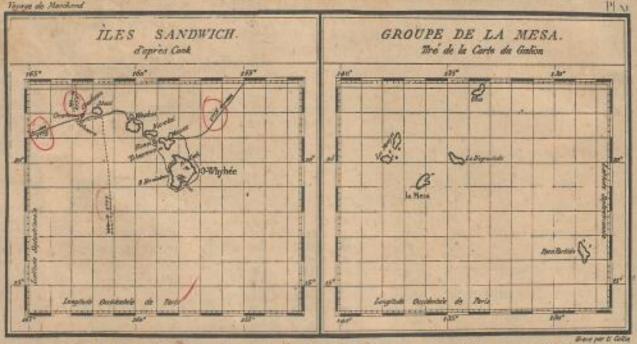
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confus dat

a political opinion. Otherwise, he struck strictly to the business of chronicling his voyages on a day-byday basis.

Appearing in the first volume of the Admiralty Edition in his cryptic language is Cook's description of the

scene:

It could not but occur to us as a singular and affecting circumstance, that at the very instant of our departure upon a voyage. he object of which was to penefit Europe by making resh discoveries in North merica, there should be he unhappy necessity of mploying others of his lajesty's ships, and of coneying numerous bodies of and forces, to secure the bedience of those parts of nat continent which have een discovered and settled y our countrymen in the st century. On the 6th, his ajesty's ships Diamond, mbuscade, and Unicorn, ith a fleet of transports, ensisting of 52 sail, bound America, with the last

rong North West Wing. NOTHER interesting way in which Cook is tied to the Arican Revolution is revealed in tiprotection afforded him by Eamin Franklin, then the Americplenipotentiary Minister to ice. Franklin, whose principal es were bent on securing French so the colonists' revolt, negotiateth the Revolutionaries a protectto Cook at a time when the rican war vessels were destroyiverything at sea flying the Britiag. Franklin's success in this er is set forth in his letter to ican man-of-war on the high

vision of Hessian troops,

id some horse, were forcinto the Sound by a

o all Captains and Cominders of armed Ships ing by Commission from Congress of the United ites of America now in r with Great Britain.—

Ship having been fitted from England before the amencement of this War nake Discoveries of new intries in unknown Seas, er the conduct of that st celebrated Navigator t. Cook; an undertaking y laudable in itself, as Increase of Geograph-Knowledge facilitates Communication between ant Nations, in the exnge of useful Products Manufactures and the nsion of Arts, whereby common enjoyments of

human life are multiplied and augmented, and Science of other kinds increased to the benefit of mankind in general. This is therefore most earnestly to recommend to everyone of you that in Case the said Ship, which is now expected to be soon in the European Seas on her return, should hap-pen to fall into your Hands, you would not consider her as an enemy, nor suffer any Plunder to be made of the effects contained in her, nor obstruct her immediate return to England by detaining her or sending her into any other part of Europe or to America, but that you would treat the said Captain Cook and his people with all civility and kindness, affording them as common friends to mankind all the Assistance in your power which they may happen to stand in need of. In so doing you will not only gratify the generosity of your own dispositions, but there is no doubt of your obtaining the approbation of the Congress and your other American Owners.

> I have the honor to be, Gentlemen, Your most obedient humble Servant

B. Franklin

Minister Plenipotentiary from the Congress of the United States to the Court of France

Given at Passy, near Paris, this 10 Day of March 1779

PRIOR TO HIS selection to head the first voyage, Cook had spent some years surveying the St. Lawrence River. Much of this work was performed under the eyes, arrows and rifles of hostile Indians who did not hestitate to harass and make almost impossible the progress of the survey.

However, the task was completed; much of the river is even now navigated with the aid of the Cook charts completed over 200 years ago.

THE greatest scourge of the early explorers was scurvy. Prior to Cook every sea captain suffered severe loss of life of the crew from this scourge. In addition to loss of life as the voyages lengthened out, more and more of the crews were laid low by the disease, now known to be caused by a vitamin C deficiency in diet.

Cook observed the effect of fresh vegetables and fresh fruits in the recovery from scurvy and was the first of the great navigators to minimize its effects by a rigid enforcement of diet. Cook describes his procedures while opposite Hilo on Windward Hawaii in conjunction with an unsuccessful attempt to get the crew to drink a sugar cane brew:

Few commanders have introduced into their ships more novelties, as useful varieties of food and drink. than I have done. Indeed few commanders have had the same opportunities of trying such experiments, or been driven to the same necessity of trying them. It has, however, been, in a great measure, owing to various little deviations from established practice, that I have been able to preserve my people, generally speaking, from that dreadful distemper, the scurvy, which has perhaps destroy-ed more of our sailors, in their peaceful voyages, than have fallen by the enemy in military expeditions.

FOR INSTANCE, on one occasion-Cook took on several tons of New Zealand spinach while exploring and mapping the coast and required members of the crew to consume a given portion at each meal. Two members of the crew refused to members of the crew refused to comply. The punishment of 10 lashes was administered and thereafter all members of the crew consumed the prescribed diet.

No wonder that Cook pratically eliminated scurvy in this three voy-

EVEN the ablest voyagers must have some luck to survive and Cook was no exception.

On his second voyage in the area of the East Indies the Discovery separated from the Resolution and ran into a submerged coral head. She began taking water so fast that the fully manned pumps were unable to keep the ship afloat. Two steps were immediately taken.

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What luck some people have! Incidentally, within the past several years the exact location of the near disaster was spotted and divers retrieved practically all of the supercargo that was thrown overboard.

us as a singular and affecting circumstance, that at the very instant of our departure upon a voyage, the object of which was to enefit Europe by making resh discoveries in North merica, there should be he unhappy necessity of mploying others of his lajesty's ships, and of coneying numerous bodies of and forces, to secure the bedience of those parts of hat continent which have een discovered and settled y our countrymen in the st century. On the 6th, his ajesty's ships Diamond, mbuscade, and Unicorn, ith a fleet of transports, nsisting of 52 sail, bound America, with the last vision of Hessian troops, id some horse, were forc-

into the Sound by a rong North West Wing.

NOTHER interesting way in which Cook is tied to the Arican Revolution is revealed in tlprotection afforded him by Pamin Franklin, then the Amerieplenipotentiary Minister to fee. Franklin, whose principal es were bent on securing French m the colonists' revolt, negotiateth the Revolutionaries a protectto Cook at a time when the rican war vessels were destroyiverything at sea flying the Britiag. Franklin's success in this er is set forth in his letter to ican man-of-war on the high

'o all Captains and Comunders of armed Ships ing by Commission from Congress of the United ites of America now in r with Great Britain.ntlemen.

Ship having been fitted from England before the amencement of this War make Discoveries of new intries in unknown Seas. er the conduct of that st celebrated Navigator xt. Cook; an undertaking y laudable in itself, as Increase of Geograph-Knowledge facilitates Communication between ant Nations, in the exnge of useful Products Manufactures and the nsion of Arts, whereby

common enjoyments of

withth is now expected to be soon in the European Seas on her return, should happen to fall into your Hands, you would not consider her as an enemy, nor suffer any Plunder to be made of the effects contained in her, nor obstruct her immediate return to England by detaining her or sending her into any other part of Europe or to America, but that you would treat the said Captain Cook and his people with all civility and kindness, affording them as common friends to mankind all the Assistance in your power which they may happen to stand in need of. In so doing you will not only gratify the generosity of your own dispositions, but there is no doubt of your obtaining the approbation of the Congress and your other American Owners.

I have the honor to be. Gentlemen, Your most obedient humble Servant

B. Franklin

Minister Plenipotentiary from the Congress of the United States to the Court of France

Given at Passy, near Paris, this 10 Day of March 1779

PRIOR TO HIS selection to head the first voyage, Cook had spent some years surveying the St. Lawrence River. Much of this work was performed under the eyes, arrows and rifles of hostile Indians who did not hestitate to harass and make almost impossible the progress of the

However, the task was completed; much of the river is even now navigated with the aid of the Cook charts completed over 200 years ago.

HE greatest scourge of the early explorers was scurvy. Prior to Cook every sea captain suffered severe loss of life of the crew from this scourge. In addition to loss of life as the voyages lengthened out, more and more of the crews were laid low by the disease, now known to be caused by a vitamin C deficiency in diet.

Cook observed the effect of fresh vegetables and fresh fruits in the recovery from scurvy and was the

Few commanders have introduced into their ships more novelties, as useful varieties of food and drink, than I have done. Indeed few commanders have had the same opportunities of trying such experiments, or been driven to the same necessity of trying them. It has, however, been, in a great measure, owing to various little deviations from established practice, that I have been able to preserve my people, generally speaking, from that dreadful distemper, the scurvy, which has perhaps destroy-ed more of our sailors, in their peaceful voyages, than have fallen by the enemy in military expeditions.

FOR INSTANCE, on one occasion-Cook took on several tons of New Zealand spinach while exploring and mapping the coast and required members of the crew to consume a given portion at each meal. Two members of the crew refused to comply. The punishment of 10 lashes was administered and thereafter all members of the crew consumed the prescribed diet.

No wonder that Cook pratically eliminated scurvy in this three voy-

VEN the ablest voyagers must have some luck to survive and Cook was no exception.

On his second voyage in the area of the East Indies the Discovery separated from the Resolution and ran into a submerged coral head. She began taking water so fast that the fully manned pumps were unable to keep the ship afloat. Two steps were immediately taken.

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What luck some people have! Incidentally, within the past several years the exact location of the near disaster was spotted and divers retrieved practically all of the supercargo that was thrown overboard.

Mr. Joe Evans Back-Country Ranger P. O. Box 52 Hawaii Volcanoes National Park Hawaii 96718

Dear Joe,

I appreciated having the opportunity to speak with you by telephone yesterday. Under separate cover, I have already sent some new items about sea turtles that will be of interest. If you would like additional copies of any of this material, I would be pleased to make it available.

The monitoring of hawksbill nesting activity by you and your fellow workers offers the chance for us to learn more about this rare and endangered native species. In the past, there has been considerable concern about the impacts of cat and mongoose predation, as well as hunting and harrassment by people. As I mentioned, now is the time when hatchlings could be emerging from nests. If you find evidence of mortality, please document it as pest possible, including photographs if a camera is available. I would also appreciate being able to see a few pictures showing overall views of the area used for nesting. I have not yet personally visited the site, but plan to do so when funding and time permit.

Again, it was good talking to you. I look forward to meeting you in person. If you are ever in Honolulu, please plan to visit me here at my office on Dole Street adjacent to the University of Hawaii Manoa campus.

Sincerely,

George H. Balàzs Zoologist

GHB/11

bc: HL, Balazs

Dear George,

Thank you for sending me the copies of letters from Hawaii Volcanoes National Park Rangers concerning Hawksbill turtle nesting on the Big Island and HAVO. I have forwarded these letters to the Research Scientist in Charge at Volcanoes - Dr. Charles P. Stone.

Sincerely

Tim Ohashi

Wildlife Biologist

Hawaiian/Pacific Islands NWR Complex
P. O. Box 50167
Honolulu, Hawaii 96850

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Dr.George Balazs U.S. National Fisheries Service P.O. Box 3830 Honolulu, Hawaii 96812



United States Department of the Interior

NATIONAL PARK SERVICE

HAWAII VOLCANOES NATIONAL PARK HAWAII 96718 - 0052

January 13, 1986

Dear Mr. Balazs

Enclosed are several slides of the 3 primary beach areas along the coast of the park. I hope they will give you a better idea of what we have been talking about. You may keep the slides.

On our recent series of patrols from November through the first of January did not reveal any evidence of nesting activity. I would like to discuss the actual nesting period with you again in the near future. I recall the period was between June and August? I will be able to schedule aggressive patrols during that period to hopefully monitor activity.

Our efforts to remove the feral cat population from Halape is going slow. It is believed there are only 3 to 5 cats left.

I plan to be on Oahu in late February. If time allows, I will look you up.

Sincerely,

Jbe Evans

Backcountry District Ranger



United States Department of the Interior

FISH AND WILDLIFE SERVICE

P.O. BOX 50167 HONOLULU, HAWAII 96850 IN REPLY MEPER TO

ES Room 6307

Dr. George H. Balazs
Assistant Marine Biologist
University of Hawaii at Manoa
Hawaii Institute of Marine Biologist
P.O. Box 4346 Coconut Island
Kaneohe, HI 96744

Dear George:

My apologies for the tardy responses to your two letters. I can only beg the stress of other high priority work, coupled with a response that could wait.

First of all, regarding your request for funding to support additional turtle research/surveys. The \$40,000.00 figure you indicated is as far out of reach as \$5,000.00 or even \$2,000.00. We are absolutely hard-pressed for funds this year. As you may be aware, our Phase 3 avifauna surveys were not funded in our Fiscal Year 4983 Annual Work Plan Advice. We were able to obtain partial restoration of these funds with the understanding that we would have to make up the balance through re-programming from other projects. As it stands now, it is unlikely that we will be able to totally fund the project, and will have to do some additional re-programming to accomplish the survey objectives.

We have been advised by the Manager for Program Development/Federal Assistance, that there are no contingency funds to allocate for status surveys or any other purposes. For all intents and purposes, they do not have a contingency fund this year due to the extensive budget cuts that had be to absorbed. I would have liked to support your proposal because I am confident that you would have produced a product of value and utility to resource managers and others evaluating project impacts on turtles.

Second, your letter to Bob Seibert was "right on". I too will follow-up with a letter to him supporting greater National Park Service efforts in promoting conservation of green and hawksbill turtles, particularly at Halape. The information regarding the turtle nesting observed at Halape is certainly good news. It had been my impression that the earthquake and related subsidence of lands in that area had severeley destroyed the turtle nesting beach. Virtually all of the coconut trees along the beach died off after they became partially submerged in the sea. This is really good news.



I really appreciate the communications that you send my way, and hope that you will continue to do so.

Aloha,

line

January 17, 1983

Mr. Brian Harry National Park Service 300 Ala Moana Blvd P. O. Box 50165 Honolulu, Hawaii 96850

Dear Mr. Harry:

I am writing to request information on the boundary lines of areas administered by the National Park Service here in Hawaii. Specifically, I would like to know if any of your areas encompass coastal ocean waters. It has recently come to my attention that the Virgin Islands National Park includes at least several hundred acres of adjacent coastal waters (see attached map). Do similar, conditions exist for any of Hawaii's National Parks? Also, can you tell me how many other National Parks throughout the United States include marine areas?

Thank you in advance for any information you are able to offer to this inquiry.

Sincerely,

George H. Balazs Assistant Marine Biologist

nik



United States Department of the Interior

PACIFIC AREA OFFICE 300 Ala Moana Blvd., Box 50165 Room 6305 Honolulu, Hawaii 96850

January 27, 1983

K14 (PAAR)

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

Dear Mr. Balazs:

Some of the National Parks in Hawaii include marine areas in their "authorized" boundaries; i.e., the boundaries authorized by the U. S. Congress or contemplated by Park Master Plans. However, these waters are in State of Hawaii ownership. In no case has Hawaii yet relinquished their ownership or adopted management zones comparable to National Parks (as like say, Kealakekua Bay), so such waters do not remain actually in the park. Parks in such circumstance include Kalaupapa, Puuhonua o Honaunau, Puukohola, and Kaloko-Honokohau.

Several parks elsewhere include marine waters. Glacier Bay, Alaska, and Biscayne, Florida have substantial marine waters.

Sayun Jerry

Sincerely,

Bryan Harry Director, Pacific Area

UNIVERSITY OF HAWAII Hawaii Institute of Marine Biology Coconut Island • P. O. Box 1346 • Kaneohe, Hawaii 9

December 8, 1981

Mr. Bob Seibert District Hanger Hawaii Volcanoes "National Park Hawaii 96718

Dear Mr. Seibert:

Many thanks for your letter of November 26th answering my inquiry to Don Reeser about sea turtle sightings entered into the Halape log. I appreciated the update you provided, but was sorry to learn that no reports have been made since September of 1978.

From what I have gathered, it would appear that over the years Halspe has been regularly used by a few hawksbill turtles for nesting purposes. If you are now regularly visiting this site, it would be worthwhile to make inspections for evidence of nest diggings and emergence of hatchlings. Hawaiian hawksbills are known to next from August through November, with hatching taking place 50-70 days after the eggs are laid. At least this is the pattern that has existed at Halaws on Molokai, and at several other small beach sites along Kau and Puna. Unfortunately, I have not personally visited Halape, but I do hope to get down there on one of my forthcoming study visits to the Big Island. Any current information that you can pass on to me will be greatly appreciated.

Best regards for the Holidays.

Sincerely,

GEORGE H. BALAZS Assistant Marine Biologist

GHB: ec

Enclosures

9677311

September 21, 1982

Mr. Bob Seibert Backcountry District Ranger Hawaii Volcanoes National Park Hawaii 96718

Dear Mr. Seibert:

Many thanks for your letter of September 14th describing what was probably the nesting of a hawksbill turtle (Eretmochelys imbricata) in the National Park. Scattered nestings by the species are known from the Puna and Kau Districts, but not many have been well-documented. I would therefore appreciate any further observations you may make at Apuna Point. It is entirely possible that the turtle will renest (or has already renested) in the same area.

Mr. Francis Kuailani previously described this event to me by telephone on August 16th. He has promised to send me a map and other details as soon as possible. I spoke with him again this morning by telephone.

During your next visit to Honolulu, I hope that you will call me so we can get together and talk more about sea turtles along the Park coastline.

Sincerely,

GEORGE H. BALAZS Assistant Marine Biologist

GHB:ec

Mr. Dan Taylor Resource Management National Park Service Hawaii Volcanoes National Park P. O. Box 52 Hawaii National Park, HI 96718-0052

Dear Dan,

Just a brief note to formally thank you for inviting me to participate in yesterday's aerial assessment of sea turtle nesting habitat along the park's shoreline. It was a pleasure to meet you and Larry Katahira in person and discuss plans for the future monitoring and management of sea turtles within the park. Please continue to count on me to assist and cooperate in whatever way necessary and appropriate.

The experience of using a small helicopter to do surveys of this sort has opened an entirely new perspective to my thoughts on sea turtle related research. In the past, I have tried fixed-wing aircraft for such purposes, but was generally dissatisfied with the results. While the charter costs for a helicopter are much greater, yesterday's successful assessment has absolutely convinced me of the cost-effective advantages.

Under separate cover I am sending Larry a large assortment of sea turtle articles to further his knowledge on these animals. In no time at all I anticipate that he will be a top-notch authority on the subject!

Best regards.

Sincerely,

George H. Balazs Zoologist

GHB:gr

bcc: GHBV

LIBRARY OF SEORGE H. BALAZE

October 25, 1983

F/SWC2:GHB

TO:

William G. Gilmartin, Leader, MMESI

George H. Balazs

SUBJECT: Recovery of a tagged adult green turtle found dead with gunshot

wounds at South Point, Island of Hawaii

A letter received this week reported the finding of an adult green turtle washed ashore at South Point with a "bullet shot" in the head and another in the neck. The letter stated that the turtle was found in July and that two metal tags were present on the flippers. The tags were removed, and sent with the letter. Tag numbers (5485 and 5487) revealed that I had tagged this turtle at Kaaualu Bay on the Island of Hawaii on July 23, 1981, at 0400, in a net set within the bay. At that time the turtle was recorded as a small adult female.

It is not uncommon to hear about cases of Hawaiian turtles being shot, or shot at. This activity represents one more reason, in my view, why the French Frigate Shoals breeding colony is showing such slow recovery. Increased public awareness through aducation, as well as greater enforcement effort, would undoubtedly be of benefit.

bc: Balazs

GHB: 1ht

SEORGE N. BALAZE

November 30, 1984

F/SWC2:GHB

Dr. and Mrs. William H. Craig 5002 Hawk Hest San Antonio, TX 78250

Dear Dr. and Mrs. Craig:

Thank you for your letter of November 4, 1984 reporting our tagged turtle No. 7723 found dead at Ninole Cove with its throat cut. This sea turtle, Chelonia mydas, a green turtle, was originally tagged on May 15, 1984, just a short distance away at Punaluu. Two tags were placed on the animal, No. 7723 and No. 7724. The tagging was part of a cooperative study by our Laboratory and University of Hawaii Sea Grant Program. A full description of this research is given in the literature that I mailed to you separately about 2 weeks ago.

It would be helpful and certainly appreciated, if some additional information could be provided on your observation.

- Did the cut on the throat appear to have been made with a knife?
 Was it a fresh cut? Approximately how deep?
- 2. Was the turtle far enough away from the water to exclude the possibility that waves washed it up? A turtle of this small size would almost never come out of the water on its own, at least in that area of the Hawaiian Islands.
- 3. Did you take photographs of the turtle? If so, copies for our viewing would be appreciated.
- 4. Was the tag that you saw removed from the turtle, or left on the carcass? Incidentally, both tags were originally placed on the front flippers-No. 7723 on the right, and No. 7724 on the left.

Your report of this incident represents a valuable addition to our research records. Again, thank you very much for taking the time to write. I look forward to hearing from you again at your convenience.

Sincerely,

George H. Balaza Wildlife Biologist

-a Year Later

Big Island Revamps Disaster Procedures

By Dave Shapiro Big Island Bureau Chief

HILO-On Nov. 29, 1975, shortly after 3:30 a.m., many Big Islanders were shaken awake by a sharp earthquake generating from Kilauea volcano's south flank.

The earthquake, which measured 5.7 on the Richter scale, was considerably more severe than the frequent tremors to which residents of the volcanic Island had become accustomed.

But the "seismometers" in their heads told them it was probably not of sufficient magnitude to cause concern, so most went back to sleep.

A little more than an hour later, at 4:48 a.m., the earth began to tremble again.

This time, it did not end with one quick jolt.

INCREASINGLY violent surges of seismic power shook the entire Is-

It was almost a year ago that Big Islanders woke up to a day that included both earthquakes, tidal waves and volcanic eruptions-three of the Island's most feared natural disasters.

The Star-Bulletin's Big Island Bureau Chief was on hand to report on the disasters and tragedies that followed. Two men were killed and 19 others, most of them Boy Scouts, were injured. Now. 12 months

small, continuing sporadically for a day, but it may have been the last at Kilauea for some time.

Scientists at the Hawaiian Volcano Observatory suspect that the earthquake may have shattered Kilauea's internal plumbing so badly that the volcano may now be unable to build up sufficient pressure to erupt.

Perhaps more significant was the subsidence of lands along the Puna and Ka'u coasts.

Volcano observatory studies revealed that some coastal areas sank by as much as 11 feet in the wake of the earthquake.

AT HALAPE, a coconut grove that once lined the campsite was left standing in more than four feet of water.

The area surrounding famous Kaimu Black Sand Beach in lower Puna sank as much as three feet, forcing County officials to evacuate residents for two days until the area stabilized.

The sinking sped up erosion of the black sand beach and left the only road leading to homes in the area' swamped with water during high

Significant horizontal deformation, rockslides and ground cracking greatly changed the landscape in the lower backcountry areas of Hawaii Volcanoes National Park.

THE DISASTER led to much criticism of the County's Civil Defense agency, which proved unable to respond quickly to many aspects of the situation.

Civil Defense headquarters was a mass of confusion, with many County employes who reported in to assist sitting around not knowing what to do.

Communications were poor and lit-

agency at the time, said the County was unprepared to deal with such a widespread disaster.

"After all, nothing like this had happened since 1868," he said. "On the tsunami aspect, which is the most dangerous, all of our planning was based on a tsunami generated from somewhere else that took several hours to get here.

"THE PLANS didn't work for a locally generated tsunami that hit within minutes."

Kim said much has been done to improve Civil Defense procedures in the year following the disaster. "The most important thing we

"The most important thing we have stressed is local and individual action," he said. "When something hits this fast, we can't get out and tell everybody what to do.

"We have been meeting with groups to instruct them on the things they have to do-actions they can take on their own without waiting for orders from us."

IN ADDITION to education, the County has installed-with the help of the State-a new trigger alarm system that will immediately set off an evacuation alert whenever an earthquake of more than 6.5 magnitude

"This will probably lead to some false alarms, but it's better to be safe than sorry," Kim said. "The best thing you can do to protect yourself from a local tsunami is to get to higher ground immediately."

The agency has also reviewed and improved its own emergency operating procedures.

Civil Defense headquarters has been equipped with more telephone lines and other means of communications.

COUNTY DEPARTMENTS have

Star-Bulletin

PAG

Catastrophe-



SHRINKING BIG ISLAND—In the aftermath of the earthquake and tidal wave, a part of the Big Island coastline near Pundlu'u began to sink—putting trees and even the main belt roadway under water.—Star-Bulletin Photo by Warren R. Roll.





NO INJURIES—This Punalu'u house collapsed and its contents were strewn about when it was hit by the tsunami, but no one was injured. —Star-Bulletin Photo by Dave Shapiro.

Mauna Loa Activity Detected

VOLCANO, Hawaii—Mauna Loa, the Big Island's giant volcano, has shown new signs of life in recent days with a significant increase in seismic activity.

Scientists at the Hawaiian Volcano Observatory are recording up to 300 small earthquakes a day in the mountain, compared to an average of only 20 in earlier months.

The new activity strongly indicates that the 13.680-foot volcano may be building up to a new eruption.

Constituents are demanding more

pressures from two fronts.

ever, is deep within the volcano and would have to become considerably shallower before an eruption becomes imminent, scientists said.

Mauna Loa previously erupted last July, when a brief outburst in and around Mokuawcoweo caldera at the summit ended 25 years of inactivity, the longest lull in recorded history.

Based on historic eruptive patterns, observatory scientists have predicted that the summit eruption probably will be followed by a flank eruption within three years.

to spend \$34.7 million more than it receives this year. The bulk of the State's \$53.4 milSCIENTISTS HAVE speculated that any flank outbreak would probably occur on the northeast rift, which faces Hilo.

There has been a gradual buildup of the mountain's inflation since the 1975 outbreak, but until recently there was no accompanying seismic activity to Indicate that a new eruption was on the way.

State, County and military planners have developed contingency procedures in the event that a northeast flank eruption sends a Java flow toward Hilo, the Big Island's major population center.

By Doug Boswell Star-Bulletin Writer

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208 Pages

lay, November 25, 1976

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later, he looks back on that day, with a view to what precautions have been taken by Civil Defense and others to avoid the confusion of Nov. 29, 1975.

land for more than 30 seconds. To residents rocking in their beds it seemed like many minutes.

Their houses creaked and seemed on the verge of collapse. Unexplained "earthquake lights" flashed in the sky like lightning. When the shaking stopped, many districts had lost electrical power and telephone connections.

The magnitude of the quake, also generating from Kilauca's south flank near Kamoamoa, was later measured at 7.2, the greatest Hawaii earthquake in more than a century.

The immediate results were devastating.

AT HALAPE, a small campsite off the southeastern Hawaii Volcanoes National Park, 32 campers were caught between severe rock slides behind them and a rising sea before

Within minutes, they were swept inland by tsunamis (tidal waves) averaging more than 30 feet in

When it was over, two men were killed and 19 others injured, many of them Boy Scouts.

Waves also ravaged the tiny village of Punalu'u, some 18 miles south of Halape.

SEVEN HOMES were destroyed and more than \$1 million in damage was done to C. Brewer and Co.'s Punalu'u Village Restaurant and the Punalu'u black sand beach.

The picturesque beach was left littered with dead fish and other de-

At Hilo Bay, wave action sank four fishing boats and destroyed a small

Other parts of Hilo suffered structural damage to homes and significant loss of merchandise in business

Small boats moored in Kona also suffered damage from earthquake-generated tsunamis.

IN HAWAII VOLCANOES National Park, cracks and rockslides destroyed or damaged numerous roads, trails and other park attractions, many beyond repair.

When the damages were all tabulated, the bill to residents and government agencies came to well over \$4 million.

While the immediate effects of the earthquake were the most dramatic. later events were no less significant.

Less than an hour after the tremor subsided, an eruption apparently triggered by ground movementsbegan in Kilauea's summit caldera.

THE ERUPTION was relatively

of the disaster was available in the

Even more confusion prevailed in the outlying districts, where residents had received little instruction in dealing with such disasters and found themselves helpless.

AT HILO BAY, there were conflicts between police trying to evacuate the shoreline and boat owners trying to save their vessels from wave damage.

Hotel guests did not know whether to go to higher floors or evacuate to higher ground. The result, in some instances, was panic.

Sunny Kim, a Civil Defense planner who was acting director of the

been organized into emergency sponse groups trained to perform specific tasks.

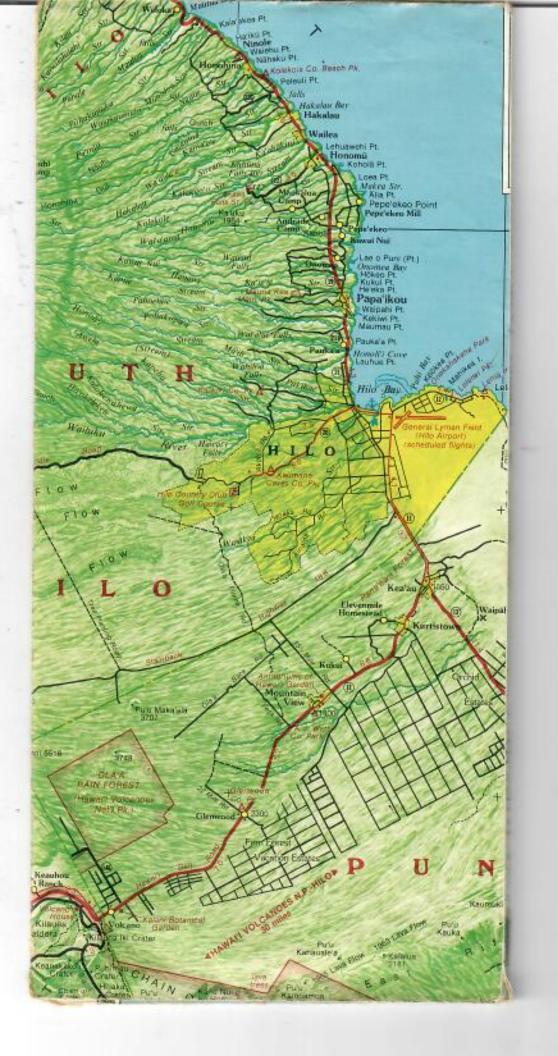
"That will relieve much of the congestion up here when people just show up not knowing what to do," Kim said.

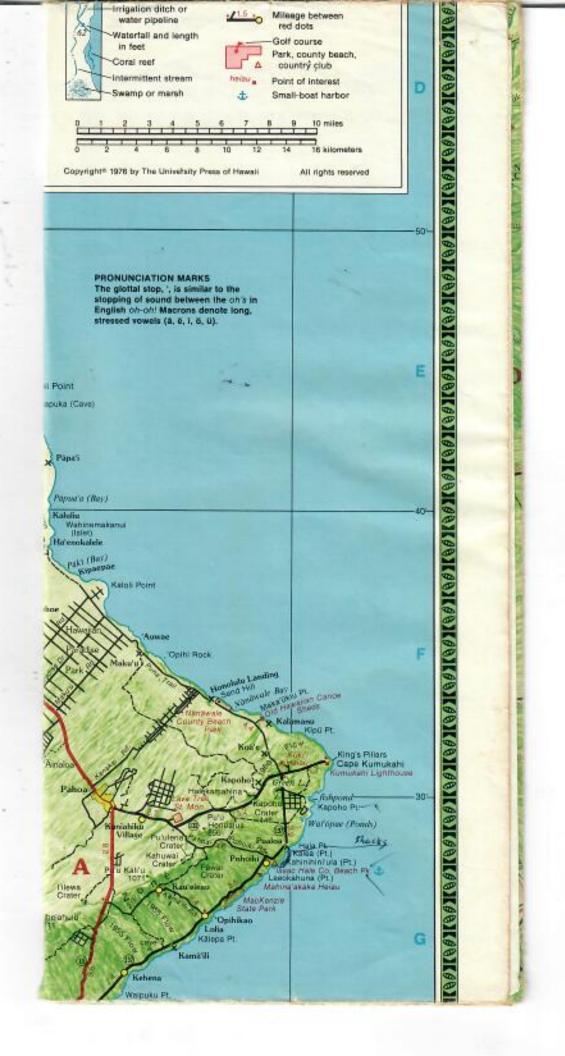
Civil Defense officials have also met with hotel managers and boaters to clarify procedures that will be followed if a similar emergency occurs in the future.

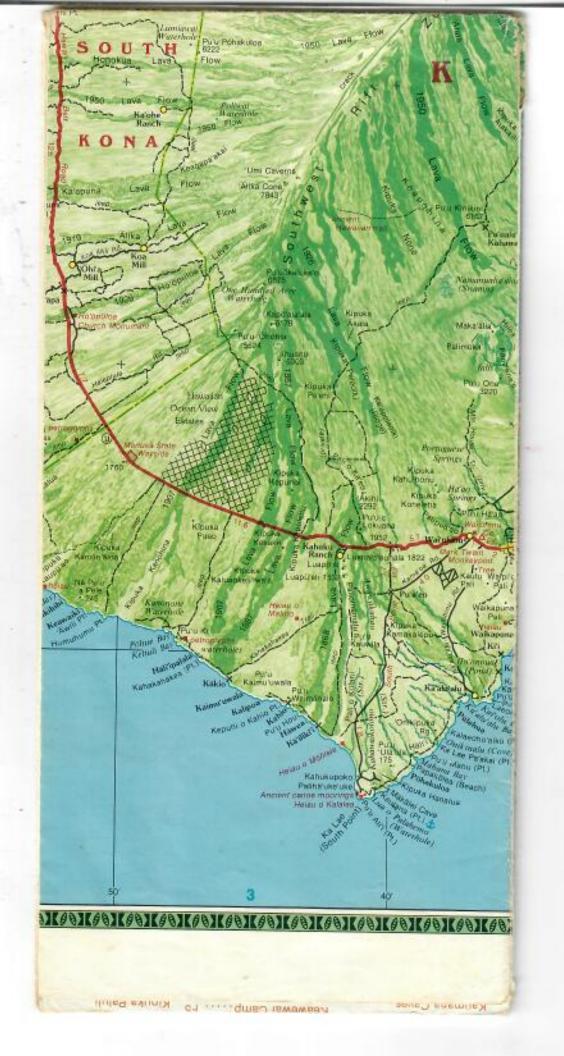
"The main thing that has come out of this is that people are more aware of what they're supposed to do."
Kim said. "They used to just sit
around and wait for instructions. Now they know what actions to take without being instructed."

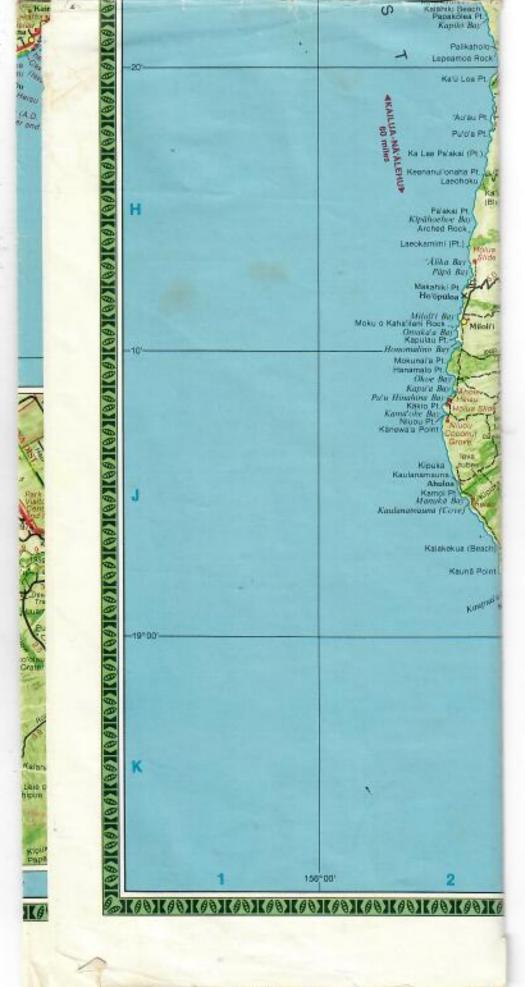


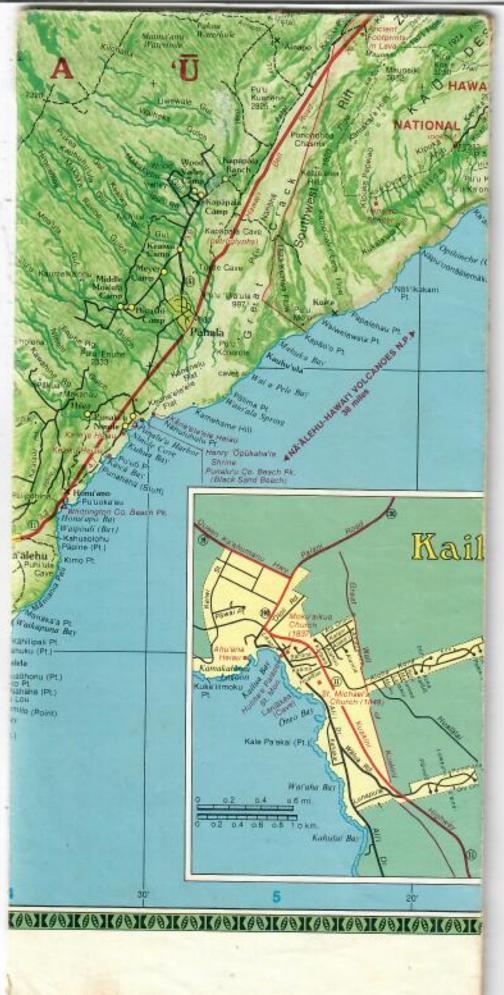
QUAKE DAMAGE—A National Park ranger checks damage to the Chain of Craters Road following the earthquake of Nov. 29, 1975. Miles away, in Hilo, huge plateglass windows were shattered.—Star-Bulletin Photo by Dave Shapiro.

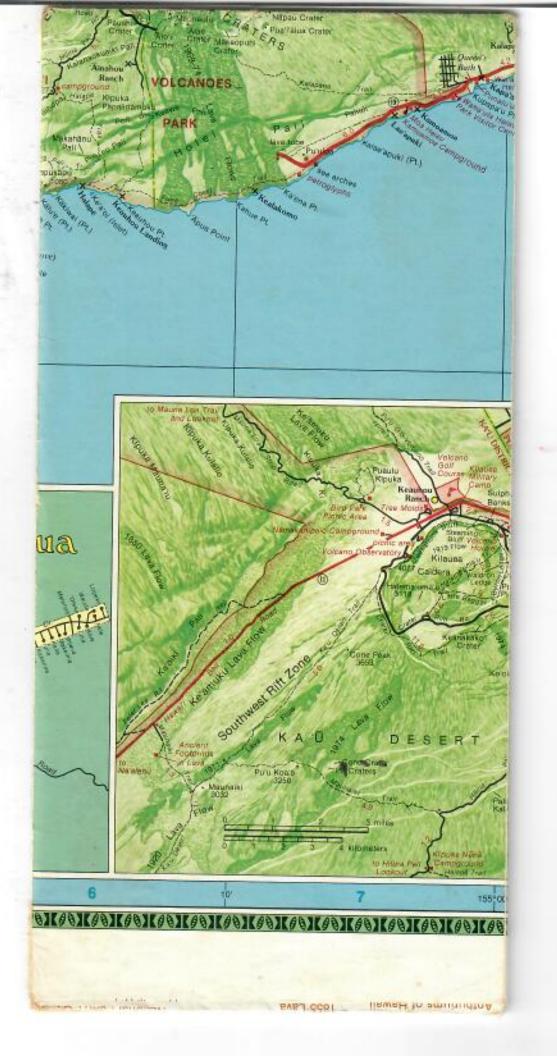


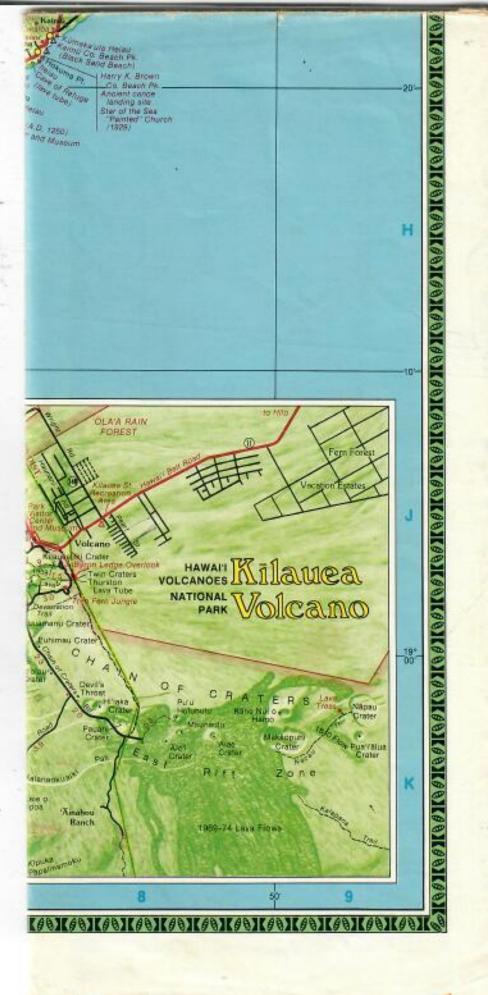


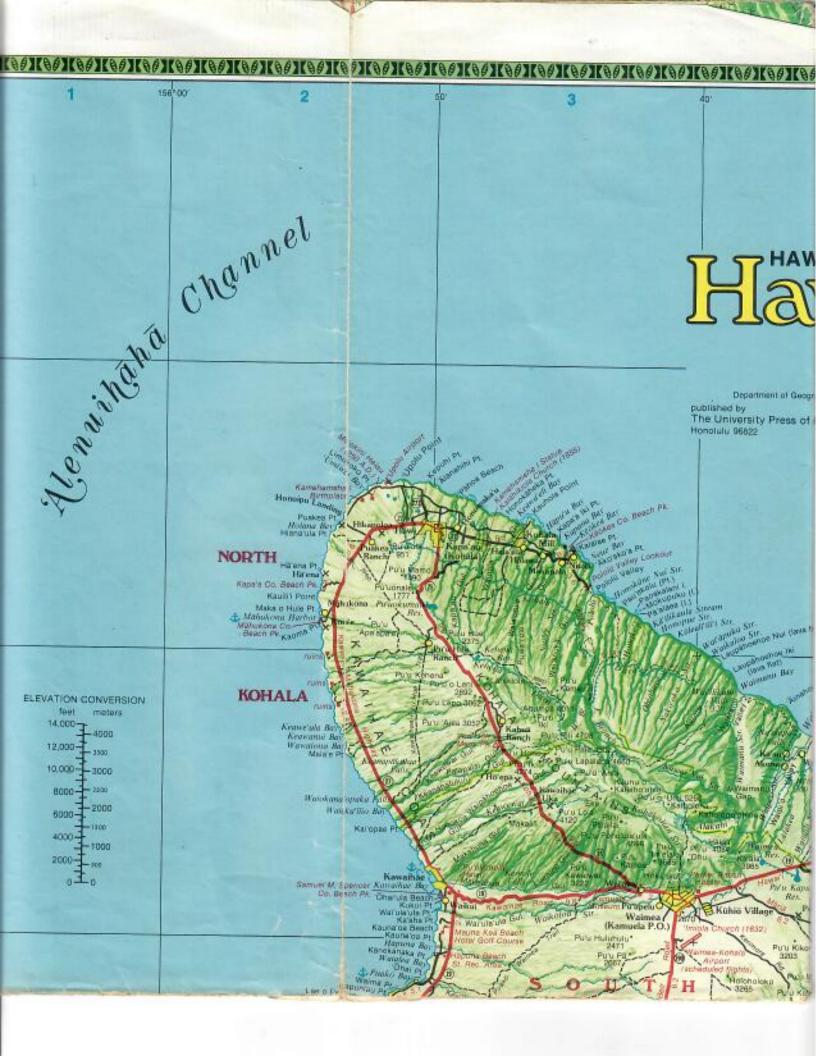












Sunday Travel

The Sunday Star-Bulletin & A





vertiser

Prepared by the staff of The Honolulu Advertiser January 27, 1980



The view from the Volcano

"One of America's noblest parks." James Michener called it in an exercise of understatement.

To revisit Volcanoes National Park, however, is to challenge one of Hawaii's most eloquent spokesmen. Since, at the risk of overstatement, Pele's domain has to be one of the most extraordinary parks in the world.

Created by an act of Congress in 1916, the Big Island preserve was dedicated five years later in a ceremony which included a chant by one of Pele's priests and a Christian prayer dating from the time Chiefess Kapiolani renounced the volcano goddess on Halemaumau's rim.

An even longer history characterizes Volcano House, whose 1846 version evoked this description: "a native-style house with a lauhala mat as the floor and a fern-covered pole framework for a bed."

Expanded to accommodate 40 people by 1860, it entertained 400 visitors annually by 1866. Currently more than twice that number arrive every day.

But when have you lunched in that grand old place, the scene of strange happenings and unexplained sightings?

Where guests have glimpsed the ethereal proportions of a woman float from the well-known Pele portrait, a fire has burned continuously for more than a half a century in the lobby fireplace.

Behind the inn original earthquake-recording devices are buried, although few visitors concern themselves with such data when confronted by the ever-thrilling panorama of Halemaumau.

The country's "newest natural wonder" (detailed in the museum now undergoing major change) is the subject of striking photography in a short movie interpreting seismic phenomena such as fountaining, spatter cones, cinder cones, curtains of fire and lava categories.

As for the ancient mythology a dandy free brochure by O.A. Bushnell explains some of the legendry for tourists.

But opting for a look at the reopened Chain of Craters Road, and lacking time to revisit all the old familiar landmarks, you will—without being reminded—pay your respects to Pele. A handful of ohelo berries tossed into Kilauea Crater is the least amenity.

That ubiquitous berry, glowing on the brink of sooty craters, red as molten rock, comprises but one feature of the distinctive

Volcano country revisited

By MARGARET SHELGREN Special to The Advertiser

House on the rim of Kilauea Crater overlooking Halemaumau.

scented white and yellow gingers, while another species lights wooded areas with its plump yellow torches.

A red-orange lily (unidentified for us) runs rampant by the roadside as you cut through tree fern jungles and ohia-lehua groves.

Again "the purple flower"-so-called locally-and a waist-high beauty which rivals the loveliness of apple blossoms delight the eye.

Upon reaching drier regions you'll spot red and white varieties of pukiawe thinning into scrubby foliage and dry grasses until only the ferns-the first to take hold after an eruption-lend the frailest touch of green to a rock-encrusted landscape.

To dip from the summit arens down the rebuilt road toward Kalapana is to sustain the unparalled impact of total devastation

through a welter of craters.

One of these, Puhimau, illustrates how molten rock beneath the surface can drain away causing the unsupported "roof" to collapse. Steaming cracks in this pit crater furnish moisture which results in a riot of ferns springing from the walls.

Continued eruptions channeled seaward through this area ruined the native Naulu forest and erected a new shield volcano.

Now a 180-degree view of lava flooded countryside cascading to sea level chronicles the story of firefalls at Holei and Poliokeawa Palis and the subsequent slow surge to the ocean.

Here you sense the meaning of statistics: 491 million cubic yards of lava belched from Mauna Ulu during a five-year period, the

longest run in island history

Throughout that interval Pele outdid herself in crafting a grab bag of geological oddities that attracts international attention, including tree mold forests, lava falls and black sand beaches.

Consequently, the Chain of Craters Road ranks among the finest scenic drives in the world and is surely one of the most unusual.

Above Holei Pali a former picnic area and campground stands complete with trees and man-made asphalt, the whole enveloped by lava, a reminder of Pele's capricious nature.

To encourage the fire goddess to cross the road rather than use it as her channel to the ocean, engineers sketched a route that intersects and follows the flow for a way.

In order that lava configurations remain untouched as much as that was possible, the contracted permitted no blasting during construction and no equipment could move beyond the highway's boundaries.

A spokesman, enumerating difficulties encountered, mentions that large tractors exca-

Volcanic rock, hauled to Hilo for cutting, came back to be used as curbing for turnouts, vista points and comfort stations.

Such attention to detail supports an official's statement: "Few roads have been built with greater sensitivity and with as much concern for the environment."

Signs identify the many craters by name, often divulging pertinent information. Others point out hiking trails and distances.

But lacking posted data, the visitor would still learn much about volcanic activity through thoughtful observation of the mindboggling ruin.

Who needs a description of lava types when-on a sunlit afternoon-a wash of smooth pahoehoe lava four miles wide glistens as if it wears a polished glaze?

Contrastingly, dull and slaglike a-a lava resembles gigantic clinkers. Ruggedly beautiful, each is a product of Pele's whimsy.

But people created the carvings consisting of circles, dots, animals and human figures in the Puuloa petroglyph field some eight miles short of the park's boundry.

The second abundant collection in Hawaii, these rock etchings abound on either side of the road along a coastal trail used by the ancients.

Now weathered on pahoehoe lava, the primitive pictures give rise to considerable speculation on the part of moderns regarding their meaning.

Little more is known about nearby Waha'ula Heiau, aside from the fact that Pa'ao, a kahuna from Tahiti, ordered its construction in the 13th century. Today's ruin is believed to be one of many reconstructions.

The opening of new paths, the well-appointed visitors center, archeological investigations and identification of additional features reward not only the first-time visitor but the repeater, as well.

Beyond the heiau a path follows the shoreline weaving "through yesterdays to a time when the rocks had ears and listened to the words of men" (in the words of the brochure).

The loop trail, passing through an ancient Hawaiian fishing village, is suggested as a place "to rest and reflect upon a world where men and women lived and died for a thousand years before the arrival of European explorers."

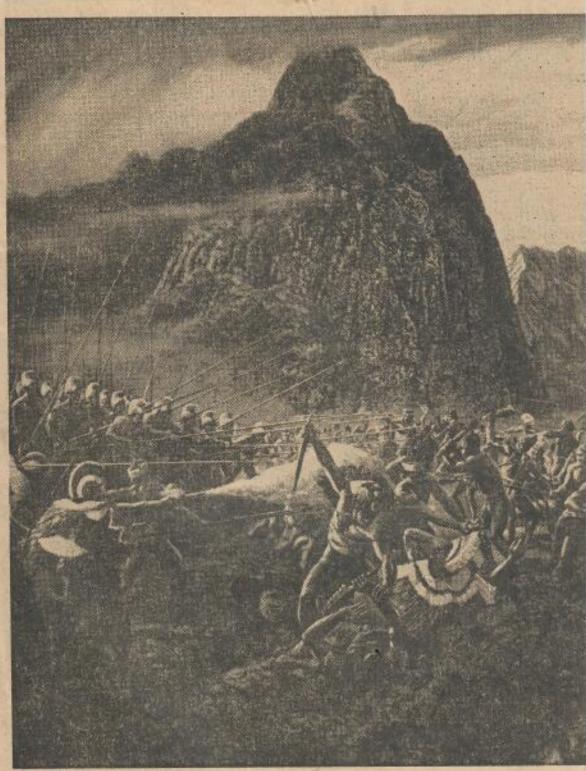
It is an appropriate site, too, to ponder the stunningly varied features of Volcanoes National Park which encompasses this glimpse into an admirable culture.

Noble it is, Mr. Michener, but awesome,



Names & Faces D2
Money D5-8
Stocks D6

FOCU



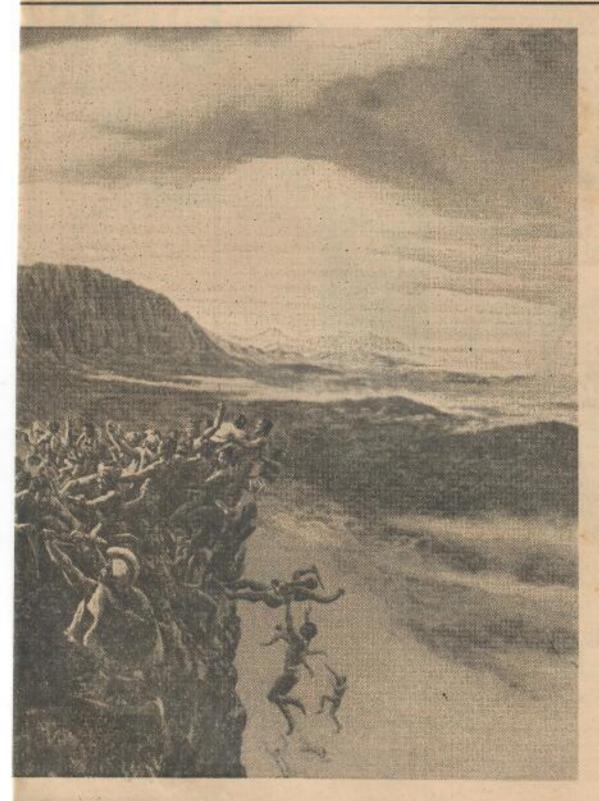
Kane's "Battle of Nuuanu"

Kane's

S/the arts

The Honolulu Advertiser

Friday, January 21, 1983



Hawaii







In 1779, John Webber, an official artist on the third and final voyage of Capt. James Cook, sketched a small double-hulled canoe during his visit to Hawaii.

At the age of 24, Webber was already a very talented artist but he probably got no more than a moment's look as the canoe and its masked paddlers zipped by. His drawing, now in the collection of the Bishop Museum, contains a number of mistakes in the rendering of the canoe.

Herb Kawainui Kane, the foremost artist-historian in the Pacific, has been bothered by Webber's painting for years. As a sailor and canoe-builder himself — he was artistic designer and the construction supervisor for the Hokule'a — Kane felt that Webber's work could be improved. Following months of extensive research he recently finished his own version of the famous image.

"Webber actually did at least two studies of this scene," Kane says. "He subsequently did another in which he reduced the number of Hawaiians in each hull from six to five. This magnified his errors in the canoe details and altered the proportions. His canoe and sail are too small and his paddlers too large."

Kane explains that when Webber returned to London his second watercolor of the masked paddlers was converted to a line engraving and reproduced in the official voyage account. The errors were repeated, then, for England and the entire world to see.

"My objective in creating this new painting," Kane says, "is to show what Webber really saw rather than what he thought he saw. The identity of the paddlers is another problem. If the feathered images are of the war god, these may be warriors or warrior priests heading for Hiklau heiau during the Makahiki season."

Kane, who has kept a low profile for the past few years, is of Hawaiian, Chinese and Danish descent. He was born and raised in Waipio Valley on the Big Island and later moved to Hilo and Wisconsin with his family.

He joined the U.S. Navy when he was 17 and two years later was attached to the Chinese Nationalist Army in Shanghai as a meteorologist. It was in Shanghai that he began seriously to think of art as a career.

After picking up degrees from the University of Chicago and the Arts Institute of Chicago he



ronn

arts writer

spent 10 years in the Windy City working as an art directorin advertising agencies and another 10 as a free-lance book and magazine illustrator.

Around 1967 he grew interested in the early Polynesian voyagers and the canoes that brought them to Hawaii. He returned here in 1972 to do further research while working as a design consultant for C. Brewer & Co. and then Amfac.

That same year 14 oil paintings and 13 architectural drawings were grouped under the title "Canoes of Polynesia" and acquired by the State Foundation on Culture and the Arts. These paintings and the first draft of his book, "Voyage" subsequently inspired the formation of the Polynesian Voyaging Society, the building of the Hokule'a canoe and its journey to Tahiti and back during Hawaii's Bicentennial year, 1976.

"I found it a hell of a story," he says. "Here were two totally disparate cultures and a first-time confrontation that had to lead to tragedy. To the early Hawaiians it must have been the same kind of thing that would happen to us if an alien spaceship were to land in Honofulu."

The story of Captain Cook's visit to Hawaii has led to Kane's present project, a collection of drawings and paintings tentatively called "Kealakekua Bay." The recreation of the John Webber painting, described above, is part of the series which will eventually consist of between 40 and 60 works.

Each Hawaii incident related in Cook's third expedition journals will be illustrated either through color sketches or paintings. Kane recently traveled to Great Britain to do research on British ships, uniforms, gear, weapourly and small boats.

"There were a few exciting discoveries," says Kane. "At the archives of the National Maritime Museum at Greenwich the staff found the original plans for the H.M.S. Discovery. Now I'll be able to reconstruct the ship's appearance."

Kane says that 14 unknown drawings of Hawaii views done by an artist sailing on the ship

See Kane on Page D-4

CAM 261-3574

Kane: What Cook really saw



Detail from Kane's "Petroglyph Maker,"

from page 0-1

have also just been found in England. He expetts photos of the drawings any day now. "I suppose the major painting

"I suppose the major painting in the group," he says, "will be the first accurate visual description of Cook's death, Four artists in the 18th century did so but each is heavily romanticized. They were done with the prevailing cultural attitudes of the time and with no real familiarity with Keulakekua Bay itself."

edge of the physical setting. He Kane, on the other hand, is of the bay during cise position of the sun and the knows what plants were not Cook's visit, He knows the prefact, the very rock from which Cook" with an unbased view of history and an intimate knowlstate of the tide at the moment He knows, in "Death his of Cook's death. approaching growing at Cook fell.

"Today," Kane says, "that rock is 32 inches under water. The land has sunk that much in

been fragmented, and research by the Kona Historical Society indicates that chunks of the rock have been taken away lover the years by foreign souvenir hunters. A French ship reportedly took away about ca ton of it.

"Twe had to examine what's left of the rock underwater with my snorkel and mask. By now, though, I've got a fairly good mental image of what it looked like out of the water and all in one plece."

In addition to the sketches and paintings themselves, which hopefully will be exhibited as a complete group, there will be a film and possibly a book based upon the artwork. Kane is now working on narratives for both.

Because it will take him an estimated two years of "sustained effort" to finish the Kealakakua Bay series, Kane will enter
into a partnership with a team
of investors who will serve as
patrons for the project. He explains that Greg Block of Contemporary Arts Management,

his agent, has worked out a package where investors will provide the funding support to enable him to stay on the project full-time. In return they will have eventual ownership of individual works after the end of their worldwide tour.

"Naturally, I don't want to sell each painting as it comes off my easel," Kane says. "That will hurt the integrity of the project. My main concern is to keep the art together as a collection for the exhibit, the planned film and the book. Everything will work together as whole. I haven't been this excited since the Hokule's sailed off my drawing board to Tahiti."

Sunday Today featu

The Sunday Star-Bulletin & Advertiser

KAWENA

Guardian of the Hawaiian Language

By Helen Altonn, Star-Bulletin Writer

AMUEL H. Elbert vividly recalls the first time he met Mary Kawena Pukui. "She had a flower in her hair and she just captivated me."

That was in 1937, on the top floor of the Bishop Museum. Pukul, affectionately called Kawena, had just joined the staff as a translator. She was working with E.S.C. Handy, an ethnologist, on a book entitled "Polynesian Family System at Ka'u," the Big Island home of her Hawaiian mother's family.

Elbert had abandoned a fledgling news-

Elbert had abandoned a fledgling news-paper career in New York several years earlier for the warmth and romance of the South Seas and had just arrived in Hawaii via Tahiti, the Marquesas, Samoa and Fiji.

"I had heard about her and wanted to meet her, he said. By then he was fluent in Spanish, French, Marquesan and Samoan languages. "I told her I wanted to study Hawaiian. She was so good. She gave me lessons at her house and her mother was

It might seem an unlikely team-an adventure-some scholar from Des Moines, Iowa, and a hapa-haole from the Big Island -but their teacher-pupil relationship was the start of a loving friendship and a "perfect combination" of talents, knowledge and personalities.

Elbert had studied journalism at Columbia University but said he didn't go on with it because it was "too ephemeral," so he went back to the Mainland

for collaborating with haoles, with authors or scientists...This hurt her very much, but she kept on working" and her door was always open to anyone who wanted information or help, even the naming of children or build-

She said once, Tve never named a pig but I've named everything else..." Elbert recall-

ed. "She had a wonderful sense of humor. Doing a dictionary, you can't be prudish."

While Pukui devoted her lifetime to the preservation of her Hawaiian heritage, Elbert said, "She was sort of torn with some of her Hawaiian heritage, here was sort of torn with some of her Hawaiian heritage, here was sort of torn with some of her here." Hawaiian beliefs because contacts with scholars made her doubt them a little bit..."

Pukui had a poi-and-potatoes type of up-



res, entertainment, food

section

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January 30, 1983

Prepared by the staff of the Honolulu Star-Bulletin



above.

'She had a flower in

turned to become University of Hawaii professor of Pacific languages and linguistics. ("Since I'm not Hawaiian," they wouldn't use that word," he noted.)

He sald Pukui helped him teach Hawaiian and he was "very strict" with his students because he believes the Hawaiian language "should be taught in a scholarly way," similar to any other language.

Pukui was 28 and married when she completed high school in 1923 at the Hawaiian Mission Academy in Honolulu. She had no formal training but was blessed with a natural gift for writing, translating and explaining the Hawaiian language and culture.

Now 87, and confined to a nursing home, she has left a legacy of Hawaiian translations and writings that are still being discovered on little scraps of paper at the Bishop Museum.

"Dr. Handy said she (Pukui) was half haole and 100 percent Hawaiian," Elbert laughed, sharing warm memories of his longtime associate during an interview at his Manoa home.

"She had a genius for explaining Hawaiian culture to others, and a genius for explaining the Hawaiian language... She had a tremendous memory. She would go talk to native Hawaiians and remember everything.

"There is no one who can take her place," he added.

Elbert and Pukui wrote "Place Names of Hawaii" with Esther T. Mookini, but their best-known collaborative effort is the "Hawaiian Dictionary," a combined edition of two earlier Hawaiian-English and English-Hawaiian dictionaries that they produced.

They also wrote a pamphlet that they expanded into "The Pocket Hawaiian Dictionary," and they also wrote a pamphlet that they expanded into "The Pocket Hawaiian Dictionary,"

They also wrote a pamphlet that they expanded into "The Pocket Hawaiian Dictionary" with Mookini's participation. It is the most popular book ever published by the University of Hawaii Press; almost 84,000 copies have been sold since it was published in 1975.

In 1976, Elbert and Pukui were recognized as "Living Treasures" of Hawaii for their contributions to the understanding of the Hawaiian language. This is just one of many honors bestowed on them, together and individually, for their achievements.

Elbert said he was encouraged to join forces with Pukui on a new Hawaiian dictionary in 1950 because the one in use at the time by Lorrin Andrews was inadequate and "had a lot of errors." She already had started the work and together they greatly expanded the effort.

"We never thought of it as a big seller at all, or paying royalties," Elbert said. "Kawena was very uninterested in money. We never dreamed what it would lead to...

"Tom Nickerson (then head of the University of Hawaii Press) never thought it would sell at all. But it has sold all over the world. I have a vanity streak, so I look it up," he said, with a big grin. "In Des Moines—so remote a place as that—there are a lot of copies."

Elbert said Pukui "was criticized by some





bringing, reflecting the heritage of both her father, Henry Nathaniel Wiggin of Masschusetts, and her mother, Mary Paahana Keali'i-kanaka-ole of Hanaiumalu on the Big Island.

Pukui was born on the Big Island. Her parents gave her as infant to her maternal grandmother to be raised and instructed in Hawaiian traditions, customs, religion, language and music. Her grandmother died

Turn to Page C-3





captivated me,'
Samuel H. Elbert, far
left, recalls of his first
meeting Pukui. Elbert
and Pukui worked
together for years to
preserve the Hawaiian
language.

Pukul, called Tui by her father, lived with her Hawaiian grandmother until she was 6, left, learning Hawaiian traditions, customs, religion, language and music.

Pukui in 1972, bottom left.

Below, a sample of unpublished material by Pukui in the Bishop Museum files.

A New Find

Hans ka iwi a kanaka makua, ho' ohoa: First get some maturity into the bones before challenging.

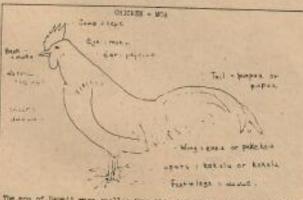
Hapa Haole 'I'o 'oni'oni: Half white with quivering flesh. What restless, active people these part Caucasions are!

Ho 'okahi no la o ka malihini: A stranger only for a day. After the first day as a guest, one must help with the work.

A rich collection of Hawaiian proverbs collected over the years by Mary Kawena Pukul is being prepared for publication by her former colleagues at the Bishop Museum. It is the last major work of the Hawaiian scholar, and the first to bear her name as the sole author.

"It will be a great boon to translators of the future because lots of things we use are figurative," said Pat Bacon. "We talk about one thing but mean something else."

Bacon said she finished typing the manu-



The ero of Remail were smaller than the introduced chicken, less shorter and basics a little impart. A pure white you was called non kerken, laws or makes. A black ros was a hims or him year.

Special or one like "lever" recits were ros sens.

script four or five years ago. "There are over 3,000 entries. She had been collecting those things for years."

Eleanor Williamson, assistant anthropologist, and Andrew S. Elston, manager of the Bishop Museum Press, have been going through the collection "line by line," for more than a year Elston said

more than a year, Elston said.

Besides "wise sayings," he said the collection includes statements on Hawaiian life and history, material from chants, poetry and legends, and poetic sayings about place names.

ends, and poetic sayings about place names.

"I think it will be a classic, instantly. The important thing is she (Pukui) pulled together for the first time a large number of traditional Hawaiian sayings never recorded or published. We're trying to keep her translations as much as possible. It's (the collection) incredibly rich. It cuts through all human experiences."

Williamson, who worked with Pukui for many years on oral recordings of Hawaiian history and traditions, said, "She used to tell

Turn to Page C-3

Kawena...

Continued from C-1

when she was 6 and her mother took over her Hawalian instruction.

She also attended Big Island schools "to be educated in the manner of the white people" and her father told her stories of the Bible and American folklore.

Another glimpse of Pukui—a "gentle person, not one to raise her voice and yell and shout"—comes from Pat Bacon, who as an infant was adopted by Pukui's parents but raised "like sisters" with Pukui's daughter.

"She loved and enjoyed her Hawaiian background, but she had the greatest respect for her haole father for giving her an opportunity to understand the whys and wherefores of Hawaiian culture," Bacon said of Pukui.

She said Pukui spoke nothing but Hawaiian during the first years of her life because her grandmother spoke no English. When she returned to her parents, her father spoke only English to her although he could speak Hawaiian.

"Her father would tell her things about home (Massachusetts). She has never been to the Mainland, but was always interested in Salem and places he talked about...She talked about 'maybe, some day' (going to Massachusetts) but 'some day' never came around."

chusetts) but 'some day' never came around."
Pukui began writing and translating
Hawaiian folklore, poetry and historical tales
when she was 15, blossoming into a prolific
author with more than 50 publications bearing her name in collaboration with others.

Elbert has written about 14 books and many articles and the 75-year-old professor emeritus is involved in a number of new projects, including revisions and "a great many additions" to the "Hawaiian Dictionary" stemming from "more reading" of Hawaiian materials.

There wasn't time to make exhaustive studies of Hawaiian books and newspapers for the first Pukui-Eibert dictionary, he said. Much of it flowed from Pukui's memory. "She would think of people saying things that were never published. She would think up things at home—idioms and expressions. None of those things were in the old dictionary."

ary."

She would speak with Hawaiians and "notice their phrases," Elbert said. "She would write them and I would rewrite them as concisely as possible. I was very careful to consult her about everything. I read every page to her, She would listen intently and stop me when something was wrong. She was always observant and thinking about it and would pick up many things not known."

"She knew her limitations and concentrated on what she knew." Elbert said. "That is why she was so respected... She would ask her mother a lot. Her mother was an expert huls dancer. One of Kawena's specialties was hula, and poetry. She could recite it by the hour, but she couldn't chant.

"She kept a diary for years and years," Elbert revealed. "I don't know where it is but she wrote clearly—very easy to read. She would 'scribble' as she said. She had great literary flair."

She also enjoyed writing songs and working with musicians, Bacon said. "She was so well versed A word may be

well versed. A word may be too long in Hawalian but she could pick out another word with the same meaning that would fit in with the beat.."

Pukui watched the changes affecting Hawaiians through the years, Bacon said. "Sometimes she said 'fine,' and sometimes she said, 'well,' and that was it."

'One of Kawena's specialties was hula, and poetry,' Samuel Elbert says of Mary Pukui. 'She could recite it by the hour, but she couldn't chant.'

In Honor of Mary Pukui

An annual student award of approximately \$2,000 has been established at the University of Hawaii in honor of Mary Kawena Pukui. The award will be offered to graduate students on the Manoa Campus pursuing advanced studies or research which includes work with the Hawaiian language and culture.

"No one now living has contributed more to the enhancement and preservation of the native Hawaiian language and culture...," said Abraham Piianala, director of the UH Hawaiian Studies Program, who announced the award.

He said Pukui's work, spanning more than half a century, "has been a major force in revitalizing and bringing about a resurgence of interest in many facets of Hawaiian culture, which we sincerely hope to continue."

ture, which we sincerely hope to continue."

Piianaia said the "guiding force" behind the award is Samuel H. Elbert. Elbert provided the initial funding and said he will continue to contribute to the award.

"I wanted to do this for Kawena, but I hope other people will contribute," he said, expressing his hope that it will be a perpetual award. He said contributions may be sent to the University of Hawaii Foundation.

Discussing criteria for the award, Piianaia emphasized that "ethnicity, race or gender shall not be disqualifications, but it is desirable that the study or research proposed be a contribution to knowledge."

The award winner will be selected by a committee of three persons.

Graduates may apply for the award by writing to the director of the UH Hawaiian Studies Program. The recipient will be announced during spring commencement

Proverbs

Continued from C-1

me she was 'playing cards.' She would go through the card files and remember something else and write it out. I found one recently on, of all things, a Matson letter head, and I know she wasn't on a Matson whin?"

Pukui was "boundless in her curiosity," Williamson said, and "she would write on every little piece of paper....She had a marvelous humor. It was a delight being with

Williamson recalled her early days as a volunteer worker at the museum when Pukui "would come peek in to see what I was doing. Then it became more than peeking in. I was listening to some chants and she would look at how I was writing them out. Then she'd hand me a piece of paper. I had incorrectly joined a Hawaiian word.

"There are Hawaiians who speak Hawaiian fluently but the ability to translate and find the proper English for a Hawaiian thought, that's the key to everything—Kawena's greatness." Williamson said

that's the key to everything—Kawena's greatness," Williamson said.

Quite a few of the Hawaiian proverbs were used for the "Hawaiian Dictionary," Williamson said, "and Kawena kept adding... She had a 'who, what, where, when' file and this became the proverbs."

The University of Hawaii Culture Committee has funded the time-consuming task of getting the bits of paper and cards into book form, she said. Now a proposal is being prepared to seek funding sources for publication of the collection by the Bishop Museum Press.

The museum has files full of other unpublished material by Pukui, including information on such topics as ancient helaus and Hawaiian natural history, Hawaiian names for parts of animals, biographical material, student compositions and texts of chants and early talks on hula.

The volume of her translations is "mindboggling," said Cynthia Timberlake, museum librarian. "If we had an angel, we would publish it immediately...It is a great source of native literature. She does it with nuances modern students don't have...She was devoted to the Bishop Museum. Everybody here reveres her."

Marguerite K. Ashford, reference librarian at the museum, noted that Pukui would go back and annotate her work—adding notes such as this one to a story she had written about a chant. "I doubt this story even if I wrote it myself."

And she fearlessly signed all of her work, unlike some authors, Timberlake added.

On all of Pukui's other books, she was a collaborator, translator, co-author or source of material. Even with her collection of proverbs, Elston said, "She would say, 'this isn't my work but the work of the people."

He said the book will be edited and designed so it can be picked up for just a few minutes of enjoyment or used for linguistic studies in conjunction with the "Hawaiian Dictionary."

KIHOLO - Sharkhook Taylor 65 18 MARCH 1980 TUESDAY At Kora airport of rented a Dollars. U-Drive for \$11.95 per day. Saw Ed Bilderback her here for Jone week and now returning to Seattle -Cardi Stanley 6) telephone numbers-Gold Bobby Hents Gate Comb, 9928 Foodsfran and prospeded to dist Turnoff road a short distance fast Kihold lookout, Park can by stone wall with barbed wine on stop, Transferred gear to Sardy Bay consiste taking for tries of Four houses and shtuated on Boy - plus Water tank, will overflow, also present at one of the houses. Snorkelled caround fishfond/gntrance/ Took edges. No alga growth to speak about 6:30PM - one end tied to rook at end of jentrance pennisula other end anchood to bottom. Tutte caught in end of met a - 10 PM & nothing - Strit a few places Checked again with light from shore

66 KIHOLO 1, MARCH 1980 At 530 > 600 Am typhight
affecting swam net at 1 - 6:30-17Am - observed 3-5 tentles surfacing at various locations around Bay, At - 8:45 Am morkeled around area and collected algae - no fonds outlet (area whole Taylor saw 6 tulle -7/49-8/49 Creen creen alga growing on these rocks. Also, quantities of red filment. Sprinkles of rain during the morning.

KIHOLO 67 18 MARCH 1980 don't 6.50 pm - captured at end of net - Set outside channel. S' 51.6 cm x 40.6 3303 LFL 0-3304 RFL expedid at C 55 X 48.2 extras scale, L'Hind's between 2-3 phalange, and leget PL- 39.8 HEAD- 8.0 TAIL - 11.7 Wt-4316 tags are inscribed Reward - 395-6409" Released - 8Am - caught again but aspire o.K. - tought bad, A few, borrocles great; small skin algae; stomach solling sample obtained. shotos w/o calipers

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KIHOLO 71 ~ 10 pm hard capture at very end of ford- 19 MARCHOO 44.3 X 38.2 3299 RFL (5) 46.3 X 44.7 3300 LFL (C)

> PL 36.9 HEAD 6.6 TAIL 6.9 24 lbs WEIGHT

No skin bornocles, so ved sking algae, but some green on plastion. white Plastron and "scalloped" margins Deep hole in 3rd lateral right. Some blood - silicon lubricated applied Stomach sampled 3x - algae retained. photos #32-34 (includes plastion)

165

72 KiHoLo (4) Early morning net coeture inside ford-20 MARCH 1980 3305 PA S - 51.2 X 41.6 3306 LEV C- 54.8 50.3 Inscribed 395-6409-(only) PL- 41.4 HEAD- 8.1 TAIL - 11.0 Stonad Sample 2x * note - take out 2 amplipart Wt- 45 16s Chotos #35-36 Very small skin barnacles. green algae on sarapare Hole Fleshed in 3rd central right side. (gunshot injury?)

KIHOLO 75 20 MARCH 1980 - 7PM by sluce (5) 3307R S- 48.1 x 37.2 3308 LFC C- 51.6 x 46.9 Plastron - 38.2 Head -9.5 TAIL-Photos #1-2 mul bone of 1st photongs weight - 34/bs PRFL Afew very small skin barracles -Red offgae on skin to flanch no son Several small freces of sorolline on a small removed from plastron-bleeding-some

-7:30 PM -8 PM get sopture - Pord -Removed shortly after release of manta 3309 S- 53.6 x 42.3 3310 C-56,4 x PLASTRON - 42,0 HEAD -TAIL - 10.7 46 16s. Left Front Flippen PL barnoles saved of SAMPLE also 1 other PC barn Knob-scale present on left front flipper - same location as 3308 Stomach sample 3x - sample saved Red & green algae - very small skin barrowles white scum on shell I lots of scratch "swrils" Photos#4-6

(7) 21 MARCH FRIDAY by sluce - noted at - 6 Am

3311 RFL 0 -1

3312 LFU (S) 62.0 × 47.6

(c) 65.8 × 57.4

HEAD 9.1 PL 47.3 TAIL 15.4

WEIGHT: 66 165

Dark stell (4) black in stell

Many skin bornacles - many removed.

Stomach sample 3x (very little obtained)
Green algae on plastion - small amount
of red on skin.
Close up photos of skin barnocles -

5

relo.

8 2/MARCH 1980, 4 Pond net supture, noted
3313 Left (5) 42.3 × 34.5

3314 Right (c) 44.6 × 40.0

PLASTRON 34.3
HEAD 7.0
THIL 9.0

WEIGHT: 23 165.

Strommy rapid site of campace small piece of pink corallie algare one photograph #14

-no stomach sample

82		**.	*
10	21 MARCH 1980	Park ret papture	-glar,
8-9	21 MARCH 1980 1-84 = 63.5 × 48.3 49.4 RFL S - 37.3	Both affear to h	ave bli
3317	RFL S - 37.	7	
3318	LFL C- 51.5	× 46.5	
	Plastron - 3	39.8	
	HEAD -	7.7	
	A STATE OF THE STA	0.9	
	Green & red agae on plast Green agae/scum abun & fishling in rectum	don't on platton -	7 16 5
9	Alga on PL	egelation.	
are s	6th Margard LEFT (1) Let)	The most of	
67F	Photos # 16-19	ord of water	
William Inc.			

11) 21 MARCH 1980 Pond net capture 49 Rm

3319 RFL S -

47.6 x

37.8

3320 LFC C-

50.5 x 45.4

Plastron -38.7

HEAD-7.7

TAIL-11.0

Weight - 37 16s

- Skin bognacles - red skin algae Photo \$20-20

Recaptured ~ 15 minutes later - swam into net.

3321 LFL S-52.4 × 41.4 between 3.d2.445 OLD TAG? 3322 RFL C- 56,4 49,4 Plastron -42.1 HEAD-8.4 TAIL-11.5 WEIGHT- 49165 STONACH SAMPLE Skin bamaches savad Freen Dagae on flastion - also will

Togging Summany
12 coptures Range - 620- 423

Straight length

Mean - 50. 4 cm

2 recaptures - 3303 within 45 minutes

Tog 3320 " 20 minutes

Tog 3321 - Piece missing between scales

of right flipped - possible

Eff this was one of my recovery from May 1973 expedition.

Tog 3321 - fiece missing between scales of right flipped - possible recovered from May 1973 expedition.

IF this was one of my recovered from May 1973 expedition.

MAXIMUM POSSIBLE GROWTH (82 months) ##

52.45L - tag 609 37.35L = 15./cm = .185.

MINIMUM POSSIBE GROWTH (82 months)

52.45L - tag 615 50.55L = 19 cm = .023 mg.

	1 44.1	Con 1 . 1 . 2	
	KINOLO	- See "water Resources" report Courthored	05
		with Steve Dollar	10
2		- See "water Besources" regort Courthored with Steve Dollar (copy on file	')
	Sunni	ARY OF TAKKINGS CONSISTED AT KIHOL	
	1721	TO PUPOSPALL ILLE MAN 1000	,,
2.	14 000	THY OF TAGGINGS CONDUCTED AT KIHOLO ED BILBERBACK 14-15 MAY 1933 - 82 om Book 1 - East Island Project and Main Island Tog	movibhs
1 Sem	(transcribed fro	m book I - East Island Project and Main Island Tog	(المنه
1	U		. 0)
	TAG NO. ST	RAIGHT CARAPACE LENGTH	
2		0-0800 h	
2	602	52.4 cm (Captured by AunA 6/3/76))
	603	41.9 -	
	604	45.7-	
	605	66.0 (Captured by Auna 9/11/7))
V	" " -1400 A	66.0 (Captured by Auna 9/11/7)	')
_	607	654XXXX	0
n.		47.6 -	
	" 608 1900H	49.7 -	
8 cm	610	42.9-	
	611	41.3-	
· man	15 MAY 1973 0	7304	
	612	47.6 - (9/14/74 m	web \
	614	63.7 Kecovered	6 612
	615	50.5- Zmiles Nor	th of
	616	64.1.	5
	617	44.6-	
	618	43.5-	
5	018	13.5	
	//	1 0 160 222	
	15 tota	a/ Range = 66.0-37.3 cm Mean - 49.2 cm	
		Mean - 44.2 cm	

14 Oct 80 Defart for Kona at 9:50, Hawaiian TUESDAY Airlines - 11 pieces of baggage LAND IN Kona ~ 10:45 Am. Full view photo taken of Kahoolawe with Alan Kam's camera enroute. Rented a DOLLAR'S royota station wagon for \$14,25 +\$ 400 for insurance; Fooded gears Drove to talva-tona, Visited for one-hour with Mr. Hines to obtain key for new gate. Kiholo ford and nearly all dejacent land is state owned. Ancets road is through State property. Before 1800's lava flows, polos were for more extensive - Kiholo village lexisted inland. Flows charged all of this. Hines used to catch tentles, in channel-winding one to the Marka side only one of that time. Used to cotch 45, But them in cave, then let them go. The sharks ever seen inside found were small puly occassionally was a larger 6-8) shark in outside-Bay. Alika Copper not liked by some fishermen in Kailva-kona. Cooper I seen tolking a tutle at Kiholo cought in a "surround" net.
New caretaker at Kiholo is
Rayword Kokeyashi & wonan twins Ouners at Kiholo includes H. Porteus.

Hires (5-6 owners in family), Vatales Holt. set-book exists on coastal state land-Conservation zone Need to Sconseder this site for "sea tutle Sanctuary" designation. bread, other supplies-to collarly for bread, other supplies-Ate at Madonalds, got water at Esico - I rove to Kiholo. Noted that gote house at entrance to Kapuhelu I- Kora Village telephone. Transported all gear to some campoite used in March, Notal that use of Helicoetes might be a good way . establish study camps. Eun shots frequently heard Laid 3 - sections of net out rope tied to rock sist worth of palm growe. Nets shallow sand bas at worth of origin fond oftance. Turtle cought after net set out. Gained while setting net, cleared thereafter - 1/4 mood - sunset - 6PM. Fot of stars, very little wind. Checked about once an hour for the remainder of night - no more tutles.

Tagging Summary

captures; Schange - 39.6 - 66.9 cm

Mean -

23 CAPTURES (22 NET; 1 by HAND)
19 different turtles, of budich
8 are recoveries of 7 month duration

AS FOLLOWS;

10.) 42.3 - 44.1 0.257 2.) 42.9 - 46.0 0.442 cm/mo 3.) 47.6 - 49.6 0.286 14.) 49.4 - 53.0 0.514 19.) 51.2 - 53.4 0.314

19.) 51.2 - 53.4 0.314 17.) 51.6 - 53.6 0.286 21) 59.5 - 61.0 0.214 18) 62.0 - 63.0 0.142

	14-20	0 CTOBER 1980			3.
.)	CAPTURES	STRAIGHT LENGHT	3/80 5712A14HT LENGTH	7mos. cm Increase	Conformath
	1. 3476,77	51.4	5000		
4-	* 2. 3315,16	46.0	42.9	3.1	0.442
cm	*3. 3319, 20	49.6	47.6	2.0	0.285
	4. 3478-80	58.5	-		
,	5. 3481-82	44.2	-		
	6. 3485,86	46.0	_		
	7. 3483,84	39.6	_		
duration	8.3487,88	57.9	-		
	9. 3489,90	64.0			
	*/0. 3313,14	44.1	42.3	1.8	0,257
1	11.3478-80	(Short-Term reco	epture)		
	12.3492,93	66.9	_		
	13,3494,95	44.9	-		
	*. 14.3317,18	53.0	49.4.	3.6	0.514
	15,3496,97	52.9	_		
	16, 3315,16	(Short-Term re	ecapture)		
	*17.3303,04	53.6	5.1.6	2.0	0.286
	* 18, 3311, 12 (23498 men)	63,0	62.0	1.0	0.142
	* 19, 3306,05	53.4	51.2	2.2	0.314
	20.3489-91	(short-term	recaptu	re)	
	21,3499-3501	57.8	_	188	
	* 22. 3297,98	61.0	39.5	1.5 110	0.214
1-	23. 3487, 88	(short-term		vre)	

14 Oct 1980 Tuesday FADPM Capture KIHOLO POND - NET AGS Held overnight - measurements taken Am 10/15 3476 LFL S - 51.4 X 41.2 De 34772nd scale C- 54.4 x 48.7 フ PL- 42.3 HEAD- 7.9 wt- 42165 TAIL - 10.7 Stomach sampled-saved - used vacuum flask -Red alga on plastron -2 la Skin barnacles plesent Right Hind Flipper 1/4 missing, but healed curled dousally

Pm.

healed hole-indentatation in 2Nd Central Photos 1-2 ASA64 - EZ

@ 150ctober Net capture - Pond - 6 PM TAG Recovery Wednesday S-× 37.2 46.0 3/21/80 42.9 49.0 x 44 PL- 37.5 HEAD - 7.7 TAIL - 9.5

WT- 36 lbs STONACH SAMPLED, SPINE RIDGE SHOWS UP ON COUTRAL

PLATES , RED ALGAE ON TAGS Medein amount of ved & green algal on no skih barnacles, plastion -

10/17 ~ 5:30 Recoptured in net - heldovernight

are

106
3 15 October 1980 Net capture - Pond ~ 6:30Pg
TAK RECOVERY Wednesday S- 49.6 x 39.1 3320 3/21/80 - 47.6 C- 52.9 x 46.5 3319 PL- 40.1 cm Telephone #5 HEAD - 8.0 TAIL - 11.5 WT-4116 Skin barnacles Pre central divided into two Green & red algae on plastion-Medicin white scum on portions of carapace Swall pieces missing from hird flipper-slightly ragged. I from hird flipper-

- Recaptived 10/17/80 Friday 1:30AM in net.

1080			**
15 Oct 1980 Wednesday	net.	capture- fonc	7 ~ 6:30 PM
15 Oct 1980 Wednesday 348 129	.44.2	x 35.6	
3482RFL C-	47.6	× 41,3	
PL-	35 1		
HEAD- TAIL-	7.1 7.5		Wt-27/65
RFL Abelled	through 15than	ge srale	1769 -
- Noted small	Realed hole	through end of	LFL
~: 5 KILLAN	4	L. OF T	m
Shin barrocked Red and oneen a Photos # 3-4	rgae on care	ofoce-medium	

110 2:00 PM 2 nd Net on rocks, certer channel 16 October 1980 move in to pond 3485RR (3) 46,0 x 36.6 (C) 48.5 x 44.0 3486 PL- 37.2 L'escale HEAD - 7.8 TAIL: 10.5

WEIGHT: 32 16s.

- Skin barnacles Red & green algae on flastron & skin Acum Swam back into net- intangled and released again.

AS.

3

3483RFL Probably moving out of fond

3483RFL 39.6 × 34.0

3484 LFF through znd large scale

C- 42.4 x 39.9

PL- 31.5 HEAD- 6.6 TAIL- 7.2

NEGHT: 21 16s.

Red & green algae on plastion, & skin of ventral flippens & neck, Sam on parapace A few skin barnacles

Photos # 57-6-7

Relevand 4:30 PM

48 16 OctoBER 1980 Thursday Net capture- fond - 10:30Am 3487LFL 8/9/84 68.0 S- 57.9 52,2 44.3 X 3488R C -IND scale 62.0 52.5 X PL- 45.1 HEAD - 8.6 TALL - 12 cm 8/9/84 87/65 Wt- 56 16s Stomach sampled.
Skin barnacles
R& Galgaelas
LFL slightly short Burrowing barracle removed from plastron-destroyed Released ~9 Am 10/20 - noted yellowish-white solo of plastron, compared to orangish solo of 22

16 OCTOBER 1980 ~ 11:30 PM Thursday HAND capture - found (Shallow) - warm water 3489 LFL S-64.0 50.0 3490 220 Scale 3491RFL C-67.4 59.8 X

> PL -53.4 HEAD -TAIL - 13.3

WT- 80 16s

Stomach somelet red filaments R& G algae on plastron Photo #8 After release, this truthe may have gone back into pond- around or under net. 10/18 Recaptured 4:30 pm - released pondside

60 17 October 1980 FRIDAY NET CAPTURE - POND 3314 RFL S- 44.1 3313LFL × 35.8 Both tags C- 47.0 x 42.0 expanded more PC-35.8 HEAD-7.4 TAIL-8.2 WT- 29 16s Skin farnacles - Stomach someled-red filaments - Small amounts of R & G algae on plastron Scum on carapace Photos # 12, 12 - tattered hind Tags 3478, 2479 3480 Recording note 10/17 1:30AM

7

17 OCTOBER NET CAPTURE - POND ~3:30 AM

3492LFL S-66.9 × 49.6

3493 RFL C-71.1 x 61.0

PL- 52.7cm HEAD- 10.1 TAIL- 14.5

WT- 83 lbs

Stromach sampled - & & algae on plastion 2 Burrowing barrocles removed from plastion Small fatables of pink corolline agal Eroded, or feeled, areas on plastion photos # 14-14

M

8 (3)
17 October 1980 ~ 630 Am Pond- Net
FRIDAY

3494 RFL

C-47.2 × 42.2

2495 Reft
2Nd Scale

PL - 34.3 HEAD - 7.0 TAIL - 7.8

WEIGHT 25 16s.

- Small around of R2 G algae on Plastron

- "Scallaged" marginal

- Skin barnagles

- Looks "this"

- Stowach sampled - ved filaments

~ 6:30 AM Pond - NET 17 OctoBER 1980 FRIDAY TAG S-53.0 40.6 RECOVERY 3/21/80 49.4 3317RFL C- 56.2 50.0 X 3318 LFL Both expanded more PL-42.9 HEAD-8.0 TAIL-11.5 cm

Wt- 46/55

- Stoward sayelet red fifewent + wollnes (?) - Thick patches of sed alga on neck - Very few (1-2) skin barnocles -Dack yellow/orangish areas to plastion - Scum on caragace Photos # 16, 15 #18 shows net & palmarove

100				="
-17 F	October 198 ELDAY	20	wet capture-	Pond -6PM
8-8	E.DAY 62.3		49.5	
347644	S-52.9	X	41.8	
3497R 2Nd SCALE	C-56.3	*	51.2	
	PL-	42.8		
\$	HEAD-	8.3 10.8 cm		
			8-8-84-	82 165
				51 lbs
-	Skin barna	plat-a	few flame	to
	Storach san Skin barrae Small amount	STRA	G algae on f	Plastron
1				
		/		
		/		

T PC

(7)

17 October 1980 FRIDAY

Net capture - Pond

RECOPTURE

3303

S-53.6 3/18/8- 51.6 × 41.9

3304

C- 57.3 x 50.0

PL- 41.4 HEAD- 8.3 TAIL- 11.5 cm

Nothing obtained from stomach sampling

Healed pieces missing from his (Sport)

fliggers - fuffer fish? Many other
with similar type injuries.

- Released at beach, swam into met. 8AM 10/18

Released again outside entrance with 33482

captured ~ 5AM 10/18

INCL D

12 (18) 17 October 1980 Netcapture - Pond FRIDAY ~6:30PM TAGREAPTURE S'- 63.0 48.4 X 331/RFL 3/21/80- 62.0 3312 LFL C- 66.7 58.1 3498R 2 Nd scale (new tag) PL-48.3 HEAD-9.5 TAIL -15.5 - Small stomach sample collected Wt. - 70 165 3 formowing barnacles destroyed - Scale-like "knob" (small) above left eye -Red algae (Poly.? & corolline) on tags of recoveries. I corolline on tags of RFL (2) & RHL Photos with compsite Released 9AM 10/18-SWAM into net - Released outside channel

NET CAPTURE - PONd

12:30 Am

18 OCTOBER 1980 SATUR DAY REZAPTURE 3306 3/28/80- 51.2 3305 RFL

S-53.4 × 43.6

C- 57.0 52.0

PL-43.1 HEAD -8.5 TAIL-11.7

No stomach sample Wt. - 51 165 Skin bannacles Red & Green algae on Plastron Scum on carapace + green algae Burrowing barracles - collected Photos of capapare #25 Photos of stur girls by turtler, #26-27 Released outside channel ~ 10:30 AM 3489, 3490, 3491 reconstrued - 4:30 AM 10/18 -

17 OctoBER 1980 FRIDAY (NARRATIVE CONTINUED FROM OTHER GRAY BOOK - PAGE 109)

CAMPERS ARRIVED in late afternoon.

Eagle ray in net during evening.

It escaped, back wito pond.



18 OctoBER 1980 SATURDAY Cloudy, shaded morning.

Photos of two girls interested in turtles: Sehva Ah Nee Box 288 Holvaloa, HI 96725

> Kim Mitchell 10 P.O. Box 1257 KAILUA-KONA 96740

Seawater temperatures recorded by
Kam - 10 AM:
Surface, at net, where captures made - 24.5°c
Bottom (-5') " - 255°
Outside shannel entrance, Makai - Surface - 26.8°c
- bottom - 27.2°c

Kam saw a school of surgeon fish (Palani) inside fond at droptoff where net is laid - 214" 216; size; Is this what has been nipping flippers of turtles?

18 OcTOBER 1980 SATURDA Noted 2-3 gravel or black soul pake side. The any of these suitable for Noted small Odepression on campaite black sand beach - but doubt if i tutle excavation. During thinght 5-6 Filipinos came into campate one with rifle. No flash ights, - came in across lava flow flanning the lay gill nets. One younger, mentioned seeing Manta in ford, Seemed familian with area. Claimed that they don't gotch turtles. ofter 1/30 minutes. Property owners asking assistance in the establishment of some important to thatles - gill nets, across entrance a in their best interests.

- Note-lots of silt apparents leaves ponds- nets are covered with silt.

Need List FOR FUTURE TRIPS
- EXTRA PROPANE

- chairs

- eggs - Paneake mix - surup - Sears burner stove

- Spice Assortment

- teflon or other skillet call

- helicopter charter - KONA Surf - meed to

- ellis "history" - Journey around Haways

w.c. Handy Native Planters of Hawaii

- feeled chili's

- 12

- Stan Scope

Horse Questions Teli 882-7094
- Presence of red or other algae in shallows of Puako?
- Cooperators living along shoreline? Site for netting
- Knowledge of turtles being taken?
- Copy of reports

- Small healed hole through and of LFL - Photostalen

Drove out about -10:30 Am, cars around goto- feople wanting to get in.

Called Fin from Kawaihae. "Lach & road Reserves" (DLNR) signs.

Returned to Kiloho about 1 RM.

Alan had summ around pond recording temperatures.

At the very end of fond, underwater temperature of 28.50°C surface freshwater today caused some mixing of fresh and seawater layers.

MONDAY
Took net out of the water

\$100 Am \$1

19 OCTOBER 1980 ~ 6:15PM Net capture - POND RECOVERY

32971FL 3/19/80 59.5

3298RF4 C-64.4 × 54.3

PL - 48.8 HEAD- 8.9 TAIL- 16.0

Stomachy sampled

Many skin barracles - most removed

One burrowing barracle removed from PL

Tattered but healed hird flighers

- R & G algae as plastron

Seft work beak injured the

Photos by Kam of we and this turtle

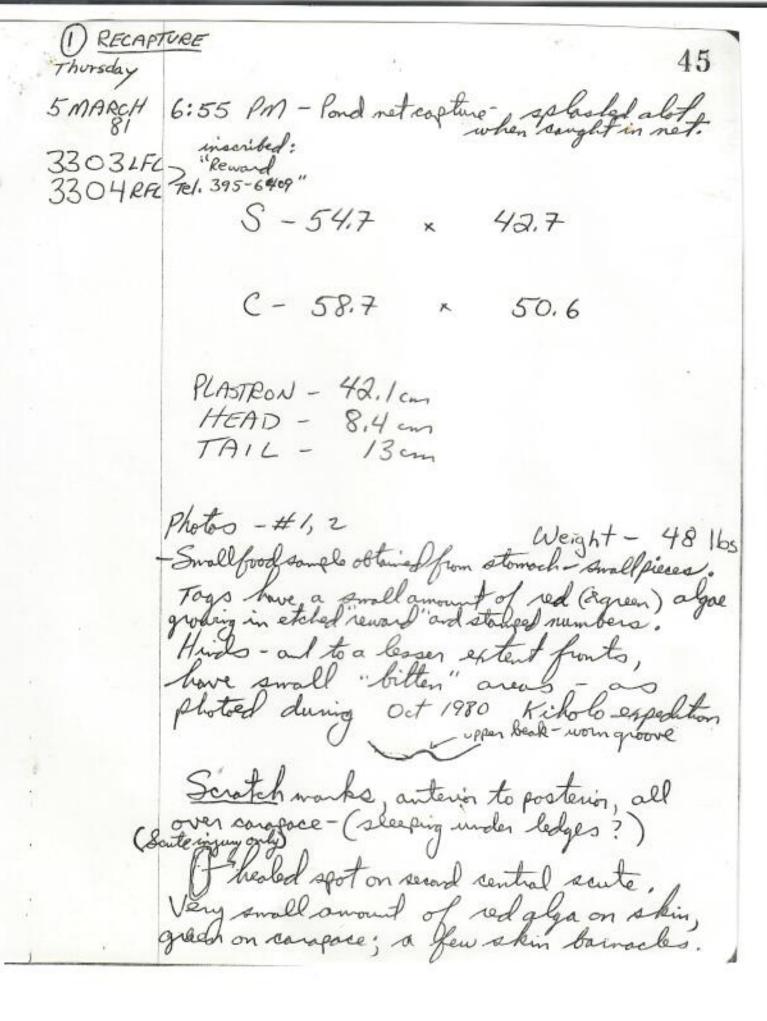
in inter tube - Note orangish

color to plastron.

40 4MARCH81 Hotel. Chris Newbelf & consystably & of tended - Probably about 125 - people of that a Dook Compbell brought in a tentle tangled in a cargo met "- Itis bout is the Hanahou - 46', Jack is also mentioned the large turtle sought of sought in a say that by Leslie. tollowing Jay talk Pete and I discussed the merits of designating Sanctuaries. He could think of no objections - doesn't believe that many people fish there. However, he did report schooling for heaving about kiholor being designated in some long range master places as you a Park. I should believe that Parks Department for slarification. 5 March 81 - Got up ~ 6:30 Am - and ~ 7AM THURSday proceeded to stone sairport to pic Alay Kam with field gear Returned & God breakfeast at McDonalds. Seds Trading Post is hop with Pitcam raived

5 March 81 turtle. Sales woman in shop, Jonis, Wednesday Tel 325-7502, showed me photographs of carvings done by her Marquesan son-in law named Rario (Tel 325-05416), Photos included 2 sea tuttes, each with a different intricate design on the carapace, Drove to airfort where I checked in the Roberts Marda Station wagon for \$12,95 per day, Telephoned Kelen about my suitase - Tum left a only stopplight (newly paved) - right on Kakalina Moule is on the left - newly vanished-They have an crange land spices -Telephoned for Byron Ayoso at Kora Village Resort (NE) made arrangements with receptions to visit there. highway. I to KYR - 2/2 miles off main OKVE hatewater spring entering into the ocean at southern end of cove/odross from beach bas). Some Gelleum growing intertidally at point-in area where Byrood indicated he seeing tutles alone to shore. Jackie Robinson (Guind of Mike Lay) took us out in Raddon glass-bottom boat mostly shallow with lots of sracks

5 MARCH81 and legges. She sees most turtles 5 on to surface. Very difficult to approach close. Noted red blog where Jackje and girl named Bandoi) will take guests on night dive. Bambi sees Startle sleeping off northern point on night dives () Discussed, possibility of staying at KVR to night dive and tag turtles, and to present natural history talks to questo. Need to write letter to FRED DUERR Byron mentioned that Auna was a caretaker at kiholo, ger Departed K.V.R. vabout 1:30 PM - to Kiholo. Transported all gear to regular campsite - Several people (touristo) present - but departed across fava flow. Young couple camping farther back in Note-Pete Hendricks mentioned occurrence 1940's - good round-up" during the late 1940's - possibly explaining the large number of bones and home found by Alan during Oct 1980 trip to Kiholo. CNET IN: haid 3 sections of net across pond-for end tied to rock lined up with approximately 4th coconut tree. 5:30PM



Thursday

S- 42.4cm x 33.8

MARCH 1981

Thursday

NET?

35261FL C - 45,0 cm

41.1

3527 RFL HEAD- 6.8

TAIL- 8.0

WEIGHT - 2416s,

Many small skin barnacles -Right flat tag produced blood bleeding Recent injury - pike missing from upper beak.
Red juice from nones - brouth Storbach fumering not savied out. Photo - #3.

6 MARCH 81 The layer of fresh water at the surface only seeded to extend down about 3 feet, just inside the net the temperatific jus It about the half-way distance. The consistently deepest area 23.30 c were at the very inward end of the good - regularly 10-12 feet. I In this area of grabbed a bottom sample that seemed to consist worthy of shalls interspersed with mid O - sample retains fossibly for Alison Kay or Lisa Coun. Also in this area of pushed the fowerhead into the mud full leigth extending to my forearm. Tip may have feretigted between larger lavely rock. While surveying the bottoms back and forth I continually probes ahead and to each side of my fath to scare up or encounted tigtle (or rays). No contact was made, as turtles at the surface while I was about the fall way point, a tuille was seen at the Several breaths were taken - when swam to get closes it could not

6 MARCH81 be found. Portions pulled up and sovered with rocks. Brugh size increase of Kiholo recoveries by time; also indicate number of capture Jand recoveries - foot on office wall.

Xerox /2 fage bandout describing trutte

Satching and tagging;

Toplications of recruitment due to

growth rates in a green trutte

fopulation" (Journal article title) One capture wode at 3:45 AM (Page 49.)
Two turtle captures wode (during twilight,
and after dark) - 2 hour shifts again
throughout the night - no other turtles. NOTE- that silly follow of fond and freahwater Contiflow may create solditions to attract tentlest to area-plume of silly fartly fresh water going

RECAPTURE 59 7 MARCH 81 6 Pm SATURDAY 348/LFL S-45.3 x 36.2 3482 RAL NOT Mean 42.6 F15h 49.5 PLASTRON 36,2 HEAD -7.3 TAIL-WEIGHT - 30165 the after capture out s channel

7

~ 10PM Pond - HAND capture under Ledge

3529 PF2 67.8 cm x 51.4

35304CC - 73.0 x 64.0

PLASTRON - 54.1

HEAD - 9.3

TAIL - 17.0 WEIGHT: 94/65

bealed bite pieces missing from his flypers

Sling algae on carapase

Skin barrocles

Released from black-sand composite beach
at about 11:30 P.M.

			(*,			6	200
	CAPTURES	10/80 STRAIGHT	LENGHT	3/81 STRAGHTLEngth	5 mov	ith cm	mo
I	. 3303,3304.	53	,6	54.7	1.1	.110	.286
2	, 3526, 3527	cob. Ne	u Fure	42.4			
3	, 3319, 3320	49	1,6	50.6	1.0	.200	.286
4	3297, 3298	6	1.0	62.0	1.0	,200	.214
5	3311, 3312,3	3498	63,0	63, 2	0,3	.060	.142
6	.3481, 3482		44.2	45,3	1.1	.220	_
7	3528,3529,3	530	capture	67.8			

CAPTURE (6 Net; I hand)

7 different twitles, of which 5 are recaptures. A were originally togged in March 1980 and precaptured in October 1980. I was originally tagged in October 1980.

1 2