

DIGITAL COPIES SENT TO:

- TNC RUSSELL KALSTROM
ED MISAki
KATHIE RAAB

12/14

Kathy -

for Lil

Mac Millan

TITLE MONITORING
MO'OMONI

LIL MACMILLAN

MAC POEPOE

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KAWA'ALOHA / MO'OMI MOLOKAI

JOAN AIDEM'S

HISTORICAL NOTES & DATA

SCANNED 10-17-2019

BY GEORGE BALAZS

FROM:

L. Macmillan

2460 Kamehameha V Hwy

Kaunakakai, HI 96748

as ij
MEMORANDUM

Tape 62 =
(6)

TO: Moomomi PS&D
cc: Ed Misaki
FROM: Alan Holt *h*
DATE: 6/23/87
SUBJECT: Dead turtle at Moomomi

On 6/21/87, while with Bill Paty and family on a field trip, we found a juvenile sea turtle dead on the beach in the Kalani area of Moomomi. The turtle was in the high tide area of the beach directly makai from the site where we usually land helicopters on the lithified dune behind the fourth dune, approximately half way between the cliffs at the western end of the preserve and the overhanging break in the lithified dunes along the beach as you head towards Kaiehu. (Ed, I'll have to show you on a map).

The turtle was only a few days dead, being rapidly consumed by maggots, and showing no obvious signs of external damage such as a spear hole or other wound. The shell was in perfect condition, and no obvious wounds were on the flippers. The head was badly mutilated by decay, so identification of wounds in that area was impossible. I photographed the turtle which apparently had been washed in after dying. It was approximately 18" long from the front to the tail of its shell. I set the turtle up on the rock out crop directly above the high tide mark in hopes that it would remain there for later identification. We saw ~~no~~ other evidence of turtles that day.

Memorandum

To: Alan Holt, George Balaz, Bill Puleloa, Joan Aidem, Dr.
Richard and Mrs. Ruth Langer
From: Ed Misaki
Date: May 5, 1987
Subj: 1987 May to August Turtle Nesting Monitoring at Kawaalooa
Bay, Moomomi

The purpose of this memo is to familiarize all of you as to: the people and agencies involved; monitoring scheme; training and duties; and public relation about this exciting and important program.

1. Name of Participants

George Balaz, Zoologist
Marine Mammals and Endangered Species Program
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822

Phone: 943-1221

Bill Puleloa, Aquatic Biologist
DLNR, Division of Aquatic Resources
P.O. Box 248
Kualapuu, Hawaii 96757

Phone: 567-6696 wk
553-3778 hm

Joan Aidem, Naturalist
General Delivery
Kaunakakai, Hawaii 96748

Phone: 553-5641

Dr. and Mrs. Richard Langer *567-6545*
P.O. Box 789
Kaunakakai, Hawaii 96748

Ed Misaki, Manager Molokai Preserves
The Nature Conservancy of Hawaii
P.O. Box 407
Kualapuu, Hawaii 96757

Phone: 567-6680

Alan Holt, Directory of Science and Stewardship
The Nature Conservancy of Hawaii
1116 Smith Street #201
Honolulu, Hawaii 96817

Phone: 537-4508 wk
528-3793 hm

2. Monitoring Scheme:

- A. We will begin making weekly spot checks beginning as soon as possible. Between the four of us on Molokai we should be

able to check every other day. Bill and I will take the lead on this initial checking. However (Joan/Langers), please let us know the days that you would be able to make checks. Everyone should keep notes on negative sightings as well as positive sightings.

- B. When a positive sighting is made, draw a sketch of the tracks as well as the nest site. Describe in detail the nest site. Report to either Bill or myself so we can contact George. If George or Bill determines that it is a "false crawl", then we will monitor for re-nesting the next couple of nights. A "false crawl" is when the female turtle make the trek to the nesting site but for some reason does not lay her clutch. She normally will try again the next night. Otherwise, if it is determined that she has successfully nested a clutch, then we will plan to monitor 10 to 15 days later for 4 to 5 consecutive nights. According to George, Green turtles averages about 2 clutches a year with a 10 to 15 day interval. George will fly over to train and conduct the initial night monitoring sessions.
- C. We will continue to monitor over the course of the nesting season with George participating less in the night session as we get better as a team. All information and data will be handed over to George and the National Marine Fisheries Service.
3. Training and Duties: George and Bill will provide the training that is needed in the handling of the turtles and the recording of the data. I will coordinate time schedules, vehicles, keys and access to the site. Joan/Langers we need you especially on the night watching duties.
4. Public Relations: We need to be very low-keyed about this monitoring project as human disturbance can distract the turtles from nesting. Please be very discrete about the entire project.

I look forward to working with all of you. Let's hope for the best!



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

5/11/87

(E) -

YOUR RECENT MEMO ABOUT TURTLE
MONITORING LOOKED GREAT! YOU'VE COVERED
ALL THE MAIN POINTS, AND HAVE A
"CORE" GROUP OF OBSERVERS. GOOD
WORK. NOW ALL WE HAVE TO DO
IS WAIT FOR SOMETHING TO HAPPEN.
SURE HOPE IT DOES!

ALOHA, GEORGE BALAZS

943-1221 (NMFS)

943-1240 (my office)



*Ed - look good. I have no question below. I have
a copy of this in file.*

Memorandum

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able to check every other ^{7. Weekly or every other day?} day. Bill and I will take the lead on this initial checking. However (Joan/Langers), please let us know the days that you would be able to make checks. Everyone should keep notes on negative sightings as well as positive sightings.

B. When a positive sighting is made, draw a sketch of the tracks as well as the nest site. Describe in detail the nest site. Report to either Bill or myself so we can contact George. If George or Bill determines that it is a "false crawl", then we will monitor for re-nesting the next couple of nights. A "false crawl" is when the female turtle make the track to the nesting site but for some reason does not lay her clutch. She normally will try again the next night. Otherwise, if it is determined that she has successfully nested a clutch, then we will plan to monitor 10 to 15 days later for 4 to 5 consecutive nights. According to George, Green turtles averages about 2 clutches a year with a 10 to 15 day interval. George will fly over to train and conduct the initial night monitoring sessions.

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I look forward to working with all of you. Let's hope for the best!

To: HFD staff
cc: HHP element file, Moomomi PSD file
Fr: Alan
Da: 10/16/86
Re: Information from George Balaz on Hawaiian sea turtles.

George is sending some literature on turtles, but in the meantime gave me a few pertinent facts that you may find useful.

The Green Sea Turtle is known all over the Pacific, is numerous but not secure anywhere. The Hawaiian population is genetically distinct and for all practical purposes totally isolated from the rest of the species. In Hawaii, about 95% of the population breeds at French Frigate Shoals in the leeward islands, with minor activity also on Laysan, Lisianski, and Pearl and Hermes Reef. This leeward population is estimated at 700-750 adult nesting females, and if a 1:1 sex ratio is assumed, an equal number of adult males. They nest every 2 or more years, and in any one year between 100 and 300 females nest at the Shoals.

The only nesting in the main islands today is at Kahuku, Oahu (2-3 turtles) and at Moomomi (4-10 turtles). Historically, turtles nested at Polehua beach on Lanai, but biologists regard this habitat as destroyed by the massive sedimentation resulting from upland erosion.

Green Sea Turtles are listed as threatened by the feds and state. This is primarily because it would be impossible to prosecute every fisherman who accidentally catches a turtle in his nets. George thinks this status is OK since it also permits easier research on the animal than if it was listed as endangered.

At Moomomi, George figures Kalani beach is also probable habitat, and has verbal reports from Molokai Hawaiians of frequent nesting all along Moomomi in "the old days"--40 years ago? He expected the Moomomi nests to be of the rarer Hawksbill turtle, as most main island nests are of this species. A man on Molokai told him of catching a big Hawksbill off Moomomi years ago. George says Hawksbill nests may be among the Green nests at Moomomi. Hawksbills have nested at Halawa, Molokai recently.

24 April 87

TO - Ed

To: Alan

FR: Audrey

RE: Monitoring Turtles at Mo'omomi

George Balayo ~~is~~ recommends that we monitor turtles at Mo'omomi this nesting season. He is willing to train a volunteer / staff if we can find someone interested.

(false crawl will appear next)

Requirements:

- ① Weekly spot checks for tracks (beginning now)
(Keep record of negative sightings)
- ② Spend 3-4 meters w/ George on beach to see/tag turtles + document nesting
- ③ Repeat w/o George this year (+ future years?) thru June/July/Aug - maybe couple more times

High tides coincide of first coming of 10-15 day intervals 4/yr clutches Average of 2 clutches a year

George suggests we try to get a Mo'okui resident / student. He would be happy to talk to Bill Puleba (op?) about good candidates (wife is teacher). I told him to wait until you call.

To: Alan Holt, Kelvin Taketa

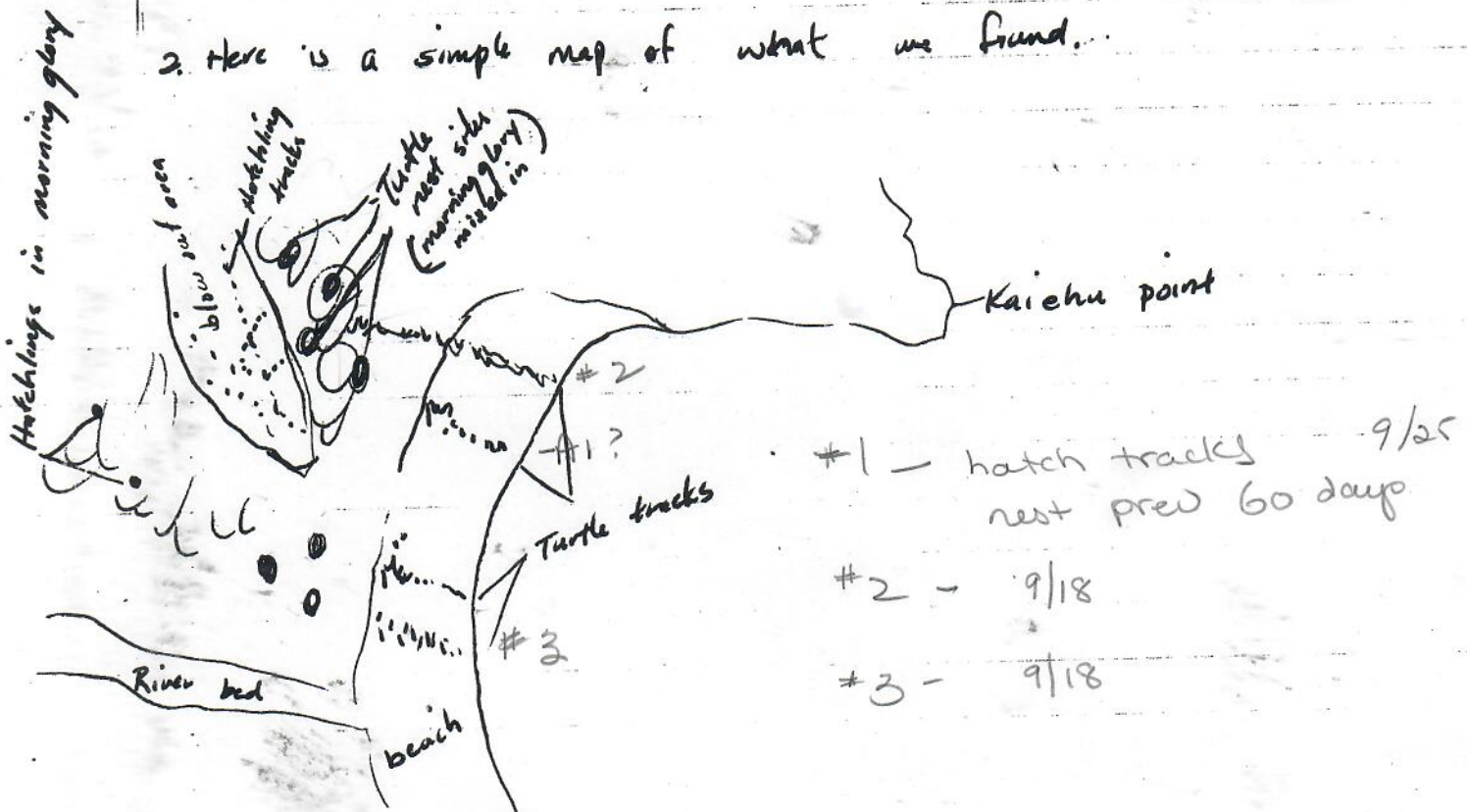
From: Ed Misaki

Subj: Moomomi Green turtle nesting site ^(9/19) survey with ^{Dr} George Bolaz National Marine Fisheries Service and Bill Puleloa, State Aquatics Biologist (Molokai).

Date: Sept 25, 1986

1. Trip was arranged by Bill and I. Bill provided the transportation and informed George Bolaz. I provided the access ~~and~~ and permission ~~in~~ for the Moomomi area.

2. Here is a simple map of what we found...



When we first got to the nesting site, George immediately point out the blow out as a major hazard to the nesting area. He began searching along the blow out in further back for a possible lost adult turtle. ~~we~~ We all noticed numerous tracks along and in the blow out area and George was pretty sure it was hatchlings. Sure enough, Bill's dog found one on the other side of the blow out. George found the 2nd one. We also ~~also~~ observed 4 separate set of tracks along the Leaches indicating adult turtles. We estimated ~~it was~~ at least a week old.

3. Hatchlings were identified as green turtles. There is also the Hawksbill and leather back turtles in the islands.
4. George stated that he estimates between 6-12 turtles using this site for nesting. He stated that "this is the most significant nesting site in the Main Islands". He meant this both quantitatively (# of nesting turtles) and qualitatively (good beach site, ~~secure~~ protected). He assumes that TNC will acquire this land and preserve it. I hope we do.
5. All three of us decided that we will keep this information to ourselves. When we campaign for 10L it's better for us to push the idea the Moomomi is a prime nesting site for green turtles than the fact that it is an active nesting site. However, we ~~are~~ sure should let our friends at NAO know about ~~the~~ "what is."
6. George and Bill both learned a lot about the sand dunes and beach strand communities. I'm confident we can count on their support in the preservation of the entire moomomi system. They are just as excited about preserving Moomomi as they were discovering the nesting site.

Aug 21, 1987

Dear Ed-

Thank you very much for taking me to Mo'omomi. Although my stay there was minimal, I feel that I gathered a lot of information for my project. I am still working on the writing part, but I'm pressed for time since I go back to Colorado in a few days.

I enjoy working with the Nature Conservancy and I hope to continue to do so in the future. Thank you again for all your help!

Aloha-

Kim Crozier



LIBERT K. LANDGRAF
DEPUTY

AQUACULTURE DEVELOPMENT PROGRAM
AQUATIC RESOURCES CONSERVATION AND ENVIRONMENTAL AFFAIRS
CONSERVATION AND RESOURCES ENFORCEMENT CONVEYANCES
FORESTRY AND WILDLIFE LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

*data for
spread sheet
from field notes*

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF AQUATIC RESOURCES

P. O. BOX 248
KUALAPUU, MOLOKAI, HAWAII 96757

June 9, 1989

To : Paul Kawamoto
From : Bill Puleloa
Subject : Synopsis of Turtle Nesting Activities at Kawaaloo Bay, Molokai
Summer of 1988, June 15th to September 30th

Kawaaloo Bay (aka Ranch Moomomi) is a crescent shape bay with a white sand beach located on the north shore of Molokai. It is approximately 3/4 mile long with the widest portion of the beach being about 100-150 yards from the water's edge to the vegetation line. Accessibility is granted at the discretion of the landowner Molokai Ranch, Ltd. This area being relatively remote, no water nor electricity is available and except for occasional fishermen is seldom visited by the general public. Furthermore, being on the north side of the island, the prevailing trades and marginal waters help restrict traffic to a minimum.

Our first report of turtles coming ashore last summer came on July 5th. Investigation revealed no actual diggings in the sand but merely that the animal had crawled ashore and then returned to the sea. This incident occurred at the western part of the bay.

Approximately three weeks later on two consecutive nights (July 30th & Aug. 1st), two or more turtles crawled ashore and dug a total of 7 separate "pits" toward the eastern portion of the bay. 5 of these pits were dug during the first visit on the 30th and the second two on the following night.

On August 14th, 2 weeks later, one set of tracks indicated another single turtle crawled ashore to deposit her eggs. She dug a total of 5 pits very high up in the pohuehue (beach morning glory) all of which were very close to each other and approximately in the middle portion of the bay. From this incident came one verified successful hatching as juvenile sea green turtles were actually observed emerging from one of the pits on October 8th approximately two months later.

On August 30th, another single set of tracks was seen indicating another single turtle coming ashore. This female turtle dug a total of 2 pits again approximately in the middle portion of the bay. Subsequently, this nesting also proved successful as many juvenile turtle tracks were observed radiating out from one of the pits two months later on Oct. 24th.

No other subsequent observations of nesting activities were recorded and our monitoring was officially terminated on September 30th.

In sum, during the summer of 1988, six separate incidents of turtles coming ashore ostensibly for nesting purposes were recorded at Kawaaloo Bay, Molokai. Because no tagging of turtles was conducted it is not known if these incidents involved six separate individuals because it is possible some of them may have crawled out more than once. A total of 14 pits were excavated with a minimum of two successful hatchings confirmed from these incidents, and that one hatching at least involved the species Chelonia mydas.

cc: Ed Misaki
NIBs
George Balazs

88

#1 - 6 pits
#2 - 10 pits
#3 - 20 pits
#4 - 6P river
#5 - 2P

A1 ✓
#3 Hatch 9/27 #1
#4 - Hatch #2 dug - 61 + 1 + 1 live
#5 - Hatch #3

MEMORANDUM

TO: ALAN HOLT, AUDREY NEWMAN, DAVID ROLPH, GEORGE BALAZ, BILL PULELOA

CC: NATHAN IGNACIO, JOAN AIDEM, DR. RICHARD AND MRS. RUTH LANGER

FROM: ED MISAKI

DATE: JAN 5, 1989

SUBJ: 1988 SUMMER TURTLE NESTING MONITORING REPORT

We had confirmed turtle nestings and hatchlings this season beginning with the first sighted adult tracks on July 4th and culminating with the last hatchlings tracks around October 25th. ✓

On November 23, 1988, Bill Puleloa, Joan Aidem, David Rolph and I went out to the turtle nest to try to recover evidence (egg shells) for further confirmation of the turtle hatch. We dug up three nest quite extensively but were unsuccessful in finding the egg shells. November 23rd's effort also ended this years monitoring efforts.

#4 turtle On 12/3, ^{10/9} Joan Aidems and Dick Langer went back out and re-dugged the western most nest. They recovered about 61 eggs 30" below the surface. As far as they could tell, only one egg looked like it had spoiled. ✓

Thus far, a total of 6 sets of tracks and 10 pits in 4 separate areas was reported this season. There was one confirm sighting of a hatchlings (dug out of the nest 10/9) and signs of 3 separate hatches, as well as the 61 hatched egg cases. ✓

Joan Aidem and Dr. Richard Langer (volunteers) did the majority of the daily monitoring. Both made about 40 visits each to the nesting sights to monitor activity. Joan Aidem kept detailed notes of each of her visits. Her notes will be made available upon request.

Bill Puleloa (DLNR Division of Aquatics) coordinated this years monitoring efforts. All sightings were first reported to Bill and he coordinated efforts to visit the nesting areas to confirms the sightings. Bill will be putting together a report of this years monitoring activities.

George Balaz (National Marine Fisheries Service) has been our official Consultant/Director of this monitoring effort and will continue to be unless informed otherwise by George.

I helped with contacting all the parties involved, authorizing the passes and distributing the keys. I believed we all learned a tremendous amount this year and our roles are becoming better defined. I want to thank all of you and I look forward to next years hatching season.

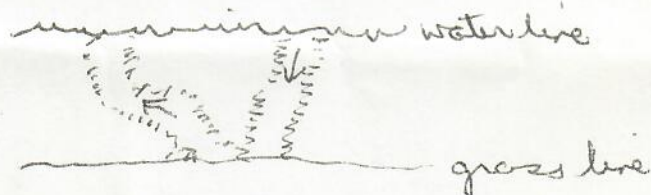
Turtle Watch 1988 Joan Aiden

7/4/88 1:05 PM Kawaaloa Bay Monday

Met a group of Sierra Clubbers who had been doing a Conservation Project at Pui Kolo Kolo yesterday. Also several fishermen coming in from further west down the beach & one or two family groups.

Many tracks on the beach where at least two types of vehicles had been doing wheelies. 175 yds west of stream entrance

AI ✓ set of turtle tracks coming up from water at an angle, indistinguishable if it ever crossed the vegetation line, & returned to the water at a roughly $40^\circ \angle$. Dick Sanger described this yesterday 7/3.



7/7/88 Thursday 9AM Kawaaloa Bay

No new tracks, scattered showers, breezy, blue sky with about $\frac{1}{2}$ puffy white cloud cover

7/11/88 Monday 7:30 AM Kawaaloa Bay

Clear blue sky, warm sun, windy. No new turtle tracks
Millions of people tracks

7/18/88 Monday 4:30 PM Kawaaloa Bay

The gate was not locked when I came in. The chain was draped around the pole but the padlock was locked & not put thru both ends of the chain. I greased it & locked it. Road in is getting more & more places with deepish sand. Beach in front of pavilion only about 15' wide & then drops off very steeply to water 10' below. About 150' west

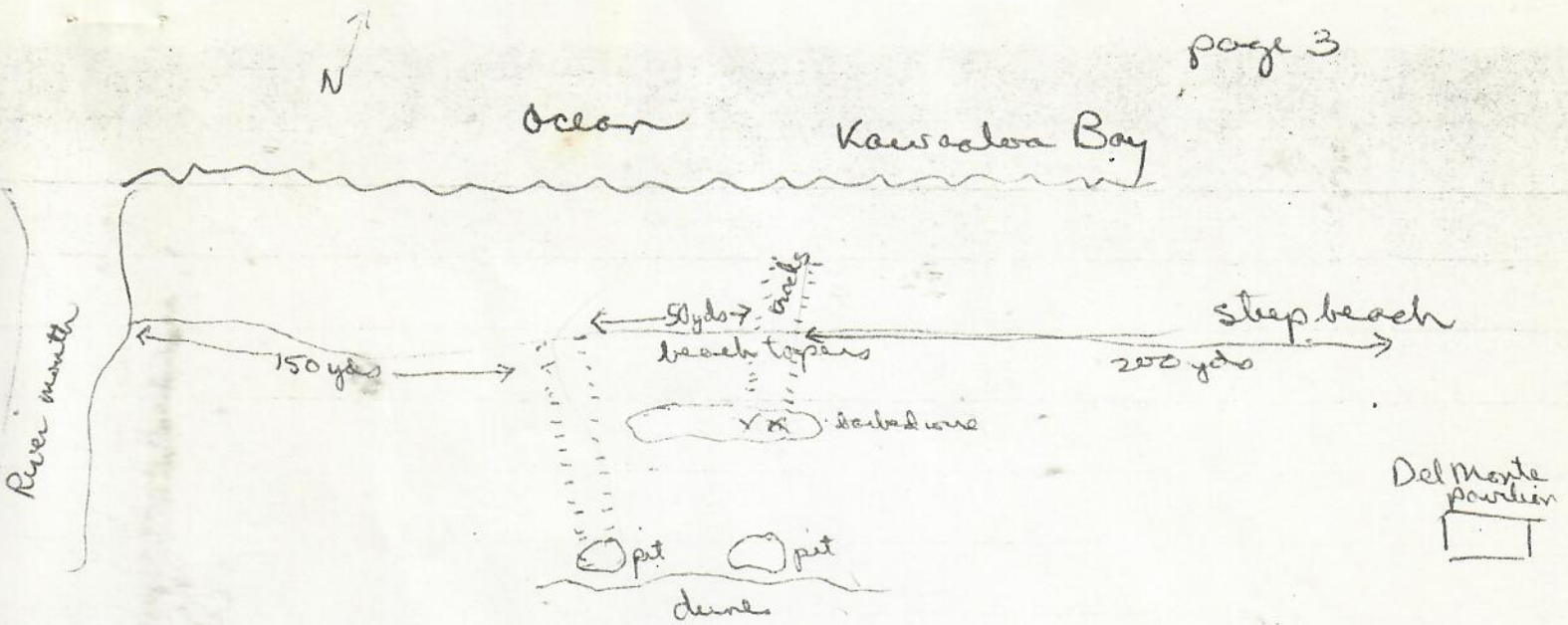
beach shallows out & becomes "turtle possible". Blue skies, drifting white clouds, hot, strong breeze off ocean, stinging sand. An unusual amount of plastic strewn down the beach - poly floats, bottle caps, baskets, containers, bottles, etc. No people. Some old turtle tracks still visible. Nothing new. Quarter moon (approximately) last night.

7/21/88 Thursday 4 PM Kawaloa Bay.

Sunny afternoon, brisk sea breeze. E end of bay still has 10' beach with steep drop-off. Lots of people tracks, millions of crab tracks but no new turtle tracks. Old ones gradually being obliterated.

7/29/88 Friday 9:45 AM Kawaloa Bay

Blue sky, brisk ocean breeze, full moon last night. Have been neglecting turtle watch all week. Forgot Monday & again Thursday. 200 yds west of pavilion turtle tracks up from ocean to pile of sand & barbed wire where tracks seem to be obliterated. These must be more than one day old as footprints cross the tracks going down the beach. Dick Langer reports that there were no tracks Wednesday but the Army was bivouacking on the beach. Some vague indentations go on up the beach toward the vegetation line - mainly obliterated by the wind. Half way up the dune, perhaps 5' up there is a two foot deep pit. Tracks badly obliterated by the wind & people footprints. This is 150 yards east of the stream entrance. Hawaiian fisherman & wife setting up poles near the stream entrance. Fresh truck tracks on road to pavilion.



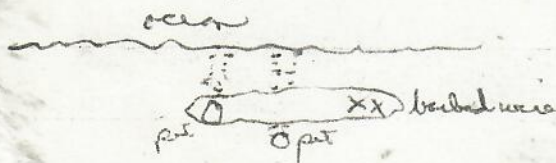
8/1/88 Monday 7AM Kawaloa Bay

Two carloads of locals arrived with me. They opened the gate & let me in. Simon Bautista fishing in front of pavilion. Everglene Bautista down to Nature Conservancy Preserve to collect salt. Harrison deMello & another man walking west for opihis. Lillian Miyaki and Margaret Miyashiro beachcombing & walking east was another woman.

Three new tracks between Friday's now obliterated tracks & two new holes lower down on beach just behind hummocks where barbed wire is. Dick Lange saw these tracks yesterday afternoon, Sunday, July 31, but thought they were the previously reported ones (7/29)

#2

-2P



p.s. Ed Misaki saw these tracks Saturday, 7/30 but thought they were previously reported tracks. Holes must have been dug Fri night 7/29.

8/4/88 Thursday 10:55AM Kawaloa Bay

One tropical storm has just passed. Another supposedly is on its way. From the looks of containers on the beach about 1" rain

must have fallen here yesterday. Road in is dry already. Party of 7 Hawaiians (3 women, 2 men, 2 boys) coming down beach from Nature Conservancy Preserve. No new turtle tracks. Bill Puleloa has obliterated the old tracks + placed stakes to mark the two latest pits.

8/8/88 Monday 6:40 AM Kawaaloa Bay

No new tracks. Cat in pavilion. Previous pits nearly filled with sand. Bristle breeze blowing directly in from sea. Partly cloudy + has been so all night. Tide was quite high last night. Beach in front of pavilion becoming less steep. Beach at west end a little steeper. Seas moderate

8/11/88 Thursday 6:30 AM Kawaaloa

No new tracks. It rained last night. Road surface is wet so that car picks up a clatter of small clods. Seas moderate. Tide was high last night. Clouds on all horizons. Muggy. Little breeze.

8/13/88 Saturday 4:30 PM Kawaaloa Bay

Was on bluff above bay (Kauihi Pt) at noon + observed tracks with binoculars but didn't have time to approach the beach + two women were sunning themselves on extreme west end of beach. Tracks about half way between river entrance + bluff. One set crosses beach. There are 5 pits just on ocean side of dunes. Second set comes from westerly direction, crosses grass + ~~Sponosa~~ at right angle + comes out on beach perhaps 50 yds west of 1st set. Return tracks? Seas moderate. Skies clear with drifting clouds. Beach in front of pavilion steepening again. That at west end gradual. This on beach planning to spend.

#3
EP

the night & perhaps gather here here. Two cars out near Farrington Ave. coming in as I went out.

8/15/88 Monday 7:20 AM Kawaaloa

Dark clouds overhead, seas quiet, no breeze, very steep embankment in front of pavilion. No new turtle tracks. It was overcast & windy last night. Dick Langer has obliterated the beach tracks nearest the stream opening. Others are there & pits appear untouched from a distance. A few drops of rain on the way home.

8/18/88 Thursday 6:40 AM Kawaaloa

Cold in Kaurakalae at 6 AM. Warm at Hoolihua. A bit of rain there, pie down. Seas choppy, strong breeze, scattered clouds, beach very steep at E end. Appears to be oil on beach at lowest part extending from where beach begins to shallow out, to river mouth. No new tracks. Bill Puleloa has obliterated west most old tracks. Three bristle-thighed curlews feeding on extreme west end of beach. One eating a crab. They all flew away after about 10 min in which I observed them, apparently because a male uwa flew in directly over them. One returned when uwa soared off. Hint of autumn in the air. South wind at Kaurakalae tennis courts at 8:30 AM.

8/22 Monday 6:50 AM Kawaaloa.

Light breeze, calm ocean, very low tide. No new tracks. Spot or two of rain from Moowani about to heavy, on way home. Owl from last week nearly gone. Art Squid, lady friend & three boys camping in pavilion overnight - Very steep in front of pavilion.

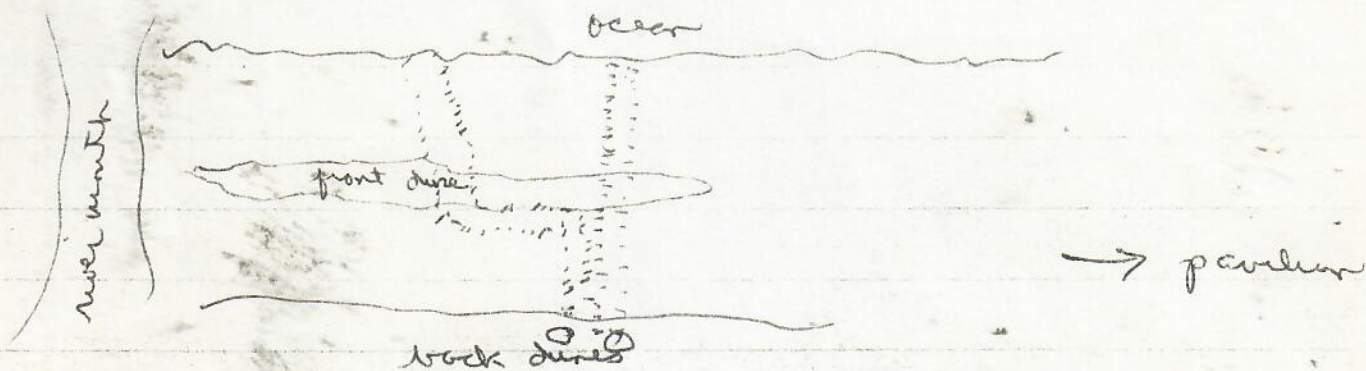
8/25/88 Thursday 6:50AM Kawaloa

Warm & still, calm sea, cloudless, no new tracks. Bag of food on pavilion porch floor, empty cooler inside on sideboard. No people or cars.

8/29/88 Monday 9:45 AM Kawaloa

Light breeze, clear, big moon last night, rain in Hoolehua but none here, quiet sea, very low, almost no beach in front

4
2P of pavilion, just drop off to wet sand. New turtle tracks, probably last night. Two pits in back dune. Straight line up beach across first dune, down swale & up back dune. Re-traced her steps as far as first dune, then turned west until lowest part of dune above river & headed back out to sea going NW.




9/1/88 Thursday 11:30AM Kawaloa

Quiet sea, pleasant breeze, blue sky with a few clouds, sunny and warm. No new tracks. Just room to walk along sand in front of pavilion before drop off. Low tide

9/8/88 Thursday 4:10 PM Kawaloa Bay

No new tracks, many human tracks from big Labor Day weekend, Two hundred on beach, many places in dunes, tracks in sand near river area. Sunny, clear, calm sea, light breeze. No beach in front of pavilion. — only drop off

- 9/12/88 Monday 4:45 PM Kawoaloa
No new tracks. Calm sea. Bank forming on West of beach. 'Hunakai'
 + plover prevalent. Warm clear, light breeze
- 9/15/88 Thursday 6:45 AM Kawoaloa
 Hazy, still, big waves, warm. Two opih pickers returning from
 farther west. Two 'Hunakai', three ruddy turnstones on beach.
 No new tracks. A truck or dune buggy has been riding the
 dune tops from pavilion as far W as they could get before being
 stopped by kawe. No evidence of disturbance at nest.
- 9/17 Saturday 7:05 AM no new tracks, no hatches
- 9/19 Monday 11:00 AM " " " "
 Marien Kelly, Bob Bower, Dorothe Curtis on beach. Brisk breeze
 normal sea. High bank in front of pavilion is breaking down
- 9/22/88 Thursday 6:30 PM Kawoaloa Bay
 Almost dark, brisk breeze, normal ocean, 3/4 moon, 22 cows
 near gate. No tracks, no hatches
- 9/24/88 Saturday 7:30 AM Kawoaloa
No tracks, no evidence of hatches. Two fishermen have been
 camping on far end of beach. Moon getting full. Low tide, warm,
 clear, light seas, small breeze, lots of the usual crab on beach.
 1 plover, 2 'Hunakai'
- 9/26/88 Monday 7:30 AM Kawoaloa
 Low tide, big moon last night, no new tracks, no hatches. Hasp
 fell out of padlock. Will report to Pearly. Strange sidewinder
 like tracks up beach turn out to be made by broken plastic
 lid . Much lime on West of beach
- 9/27/88 Tuesday 9:20 AM Kawoaloa

Two fishermen on beach, light rain all the way down but sunny on beach. Moon big last night. Good breeze, normal sea, no evidence of hatch or tracks.

9/28/88 Wednesday 9 PM Kawaaloa

^(yesterday)
 $\frac{2}{3}$ moon, quiet night. Dick reported what appeared to be a hatching at lower nests behind "barbed wire" dune. (See 8/1/88) but I could find no evidence. Crabs everywhere running over toes & legs. ^(as on nest on beach in dune) Plover calling from time to time, all night. Two hurokai on beach in morning. Sky lark singing on wing. No hatching. No turtles left after sun-up 6:30 AM. New padlock on gate.

P.S. Dick insisted that it was a hatching. Admittedly the dune was dimpled (unlike crab tracks) coming from a slight depression roughly where nest had been behind "barbed wire" dune. On later seeing another hatched area I could see the similarity.

10/1/88 Saturday 10:30 AM Kawaaloa

Big cormorants rolling in. Light breeze. $\frac{1}{3}$ moon last night. Tide medium. Sunny, warm. Plovers calling. Three ruddy turnstones on beach. Plenty crab tracks. No signs of hatching or turtle tracks. No people on beach but military vehicle & three servicemen on bluff NE of pavilion. Two more vehicles with several men each inside gate.

10/3/88 Monday 2:30 PM Kawaaloa

Big cormorants coming in, small moon last night. Four ruddy turnstones, 1 hurokai on beach. No turtle tracks.

10/6/88 Thursday 10:30 AM Kawaaloa

Sunny with white clouds overhead but threatening immediately offshore. Black clouds right down on ocean. Hard wind directly from

north. Ocean rough. Tide medium. Three hawks, 1 ruddy turnstone + 1 plover on beach. Beach now almost gradual slope in front of pavilion but sharp drop-off at W. end. No new tracks or hatches.

10/8 Saturday 11AM Kawalea

Out with Nature Conservancy group. Hatch last night in farthest west pit. Many tracks in + on ocean side of pit + straight line tracks right down to water. Sunny day. Light breeze. Moderate sea. Sprinkled here last night. Some possible tracks(?) next pit east.

10/9 Sunday 7AM. Kawalea

Dick Langer + I dug out westernmost pit where Friday's hatch was. We dug down a foot or so all over the bottom of the pit. No egg shells. Then Dick was digging the E side of this pit from top to bottom + flipped out a baby turtle. They are incredible. Huge flippers. Soft. Paleish gray with white trim all around. Neglected to check, but as I remember, the tail was longish — a male. We let her make a start for the water but he got all tangled in beach morning glory. We moved him to the grassy area. He nudged + struggled but kept getting tangled up + Dick's dog was hard to restrain from eating him, so we put him down on the sand. There he managed to fall into a crab hole. With a lot of work + time he got himself out + went off in the wrong direction up the beach. He finally circled + went back towards the water. We watched him go down + the waves took him out of sight. Reported this to Bill Puleloa. He has hurt his back + can't get out right now but maybe Wednesday. This was definitely a "green" as identified in McKeown Hawaiian Reptiles + Amphibians from head shields. Red sky this AM. Scattered clouds. Sea quiet. Little breeze. Sunny

10/10/88 Monday 10:50AM Kawaaloa

Calm sea, sunny, light breeze, no sea birds, few crabs, beach becoming steep at W end, becoming gradual slope at E end. Dig with hards on E side of westernmost pit where we worked yesterday but found nothing. No new tracks.

10/13/88 Thursday 6:40AM Kawaaloa

Started out yesterday but from end of paved road it appeared that it was raining heavily down Moamomi Way. Arrived today just as sun coming up. Road was dusty. Couldn't have rained much. Flower + 2 hupakai on beach. Many many crabs, one group eating a dead beached eel. No new developments.

10/15/88 Saturday Kawaaloa

Out with nature Conservancy abt. noon. Looked only at farthest W. pits. No signs of further hatching.

10/24/88 Monday 7:25AM Kawaaloa

Checked pits by river. (Of course they are not really pits now. They're all filled in, unlike the other layings) No sign of movement. Very calm morning. No breeze. Sea quiet. No birds. No crabs but many crab tracks. Bright sun. Bright moon last night.

10/26/88 Wednesday, 10:45AM Kawaaloa.

Big moon last night. Low tide now. Big waves breaking from far out to close in. Beach in front of pen in gradual slope now. Last nest by river with big batch. Tracks cross-crossing swale between nest + seaward dune. Pretty much obliterated on ocean side of lower dune. Perhaps this batch was Monday night. Brisk breeze after a week of doldrums. Two ruddy turnstones on beach. New pipes + reinforcing iron gate at Moloikai Ranch entrance. That's nice. Light + pretty, painted robin's egg blue green. A vast improvement over old heavy broken wooden gate.

MEMORANDUM

TO: ALAN HOLT, AUDREY NEWMAN, DAVID ROLPH, GEORGE BALAZ, BILL
PULELOA

CC: NATHAN IGNACIO, JOAN AIDEM, DR. RICHARD AND MRS. RUTH LANGER

FROM: ED MISAKI

DATE: JAN 5, 1989

SUBJ: 1988 SUMMER TURTLE NESTING MONITORING REPORT

We had confirmed turtle nestings and hatchlings this season beginning with the first sighted adult tracks on July 4th and culminating with the last hatchlings tracks around October 25th.

On November 23, 1988, Bill Puleloa, Joan Aidem, David Rolph and I went out to the turtle nest to try to recover evidendce (egg shells) for further confirmation of the turtle hatch. We dug up three nest quite extensively but were unsuccessful in finding the egg shells. November 23rd's effort also ended this years monitoring efforts.

There was a total of 6 sets of tracks and 10 pits in 4 separate areas. There was one confirm sighting of a hatchlings (dug out of the nest 10/9) and signs of 3 separate hatches.

Joan Aidem and Dr. Richard Langer (volunteers) did the majority of the daily monitoring. Both made about 40 visits each to the nesting sights to monitor activity. Joan Aidem kept detailed notes of each of her visits. Her notes will be filed with this report. Her notes will be made available upon request.

Bill Puleloa (DLNR Division of Aquatics) coordinated this years monitoring efforts. All sightings were first reported to Bill and he coordinated efforts to visit the nesting areas to confirms the sightings. Bill will be putting together a report of this years monitoring activities.

George Balaz (National Marine Fisheries Service) has been our official Consultant/Director of this monitoring effort and will continue to be unless informed otherwise by George.

I helped with contacting all the parties involved, authorizing the passes and distributing the keys. I believed we all learned a tremendous amount this year and our roles are becoming better defined. I want to thank all of you and I look forward to next years hatching season.

Mahalo —

87 - 88 - 89

Memorandum

To: HFO staff, Heritage and Maui Project
From: Torrie Haurez
Date: July 11, 1990
Subject: Turtle monitoring at Mo'omomi

Our turtle monitoring project is underway and we are looking for volunteers to help out on Tuesdays and Saturdays. We can't pay for plane fares but if possible we will provide you with a vehicle should you decide to volunteer.

Mo'omomi is closed to the public on Tuesdays and Wednesdays so if you want to come and camp overnight you are welcome to do that.

During the month of August we will also be needing help on Mondays and Thursdays if anyone is interested.

Please call me if you think you might like to help out.

Mahalo!!

Memorandum

To: Karen Lombard
From: Ed Misaki
Date: December 12, 1989
Subject: Turtles at Moomomi

Since the Conservancy's involvement at Moomomi, Turtle activity was first noticed at Kawaloa beach on the July 4th weekend, 1986. Six turtle pits and two, dead hatchlings were confirmed that year. The hatchlings were the Green Sea turtle (*Chelonia mydas*).

During the 1987 turtle nesting season (June - September), only a couple of turtle "false crawls" were sighted. No nesting were seen that year.

The 1988 season has by far been the most active. Enclosed are the reports of that years activity by Bill Puleloa, Division of Aquatics Resource Biologist, and by me.

This year, 1989, only one "false crawl" was observed. No nesting were seen or recorded. Hope this info helps.

Joan's field notes - July 5 - Sept 15

A1 - 7/24/89

8/25 - 1 turtle in water

8/27

1990 Data - no activity
from Joan's
field notes.

State of Hawaii
Department of Land & Natural Resources
DIVISION OF AQUATIC RESOURCES
1151 Punchbowl Street, Room 330
Honolulu, Hawaii 96813

Permit No. SCP 91-01
Date of Issue: _____
Expiration Date: 06/30/91

SCIENTIFIC COLLECTING PERMIT

The Board of Land and Natural Resources hereby grants permission for certain collection of organisms belonging to the people of Hawaii, under Section 187A-6, Hawaii Revised Statutes, and other applicable laws.

The permittee is

Name: George W. Boehlert Address: 2570 Dole Street, Room 106
Title: Director Honolulu, HI 96822-2396
Affiliation: Honolulu Laboratory
National Marine Fisheries Service

Under the attached conditions, and for the purpose of conducting studies on Hawaiian sea turtles—green sea turtles (Chelonia sp.) and hawksbill sea turtles (Eretmochelys imbricata)

this permit authorizes the permittee (and any assistants designated on the SIGNATURE AND ACKNOWLEDGEMENT page of this permit) to

catch, possess, transport

aquatic life from the waters of the State as follows:

Common Name	Scientific Name	Maximum No. of Specimens	Collecting Location
Green sea turtle	<u>Chelonia sp.</u>	As may be captured by methods allowed in Special Conditions, page 3 of this permit	State waters, see Special Conditions, page 3 of this permit
*Hawksbill sea turtle	<u>Eretmochelys imbricata</u>		

Note: *with appropriate Federal permit prior to conducting research.

I. GENERAL CONDITIONS:

- A. This permit becomes effective by completion of the following procedure:
 1. Each assistant must be listed on the SIGNATURE AND ACKNOWLEDGEMENT page.
 2. The permittee and each assistant must read completely the permit, and must acknowledge understanding of and agreement to abide by conditions of the permit by signing both copies in the spaces provided.
 3. Both copies, signed by the permittee and all assistants, must be conveyed to the Division of Aquatic Resources.
 4. Signature of the Chairperson of the Board of Land and Natural Resources validates the permit; one valid copy will be sent to the permittee.
- B. This permit does not make the Board of Land and Natural Resources of the State of Hawaii liable in any way for any claim of personal injury or property damage to the permittee or assistants which may occur during collecting activity authorized by this permit; moreover, the permittee and all assistants agree to hold the State harmless against any and all claims of personal injury, death or property damage resulting from activities of the permittee or any assistant.
- C. This permit conveys only authority of the Division of Aquatic Resources to engage in activities assigned to its jurisdiction. The permittee remains responsible for obtaining prior permission from all other applicable authorities, including owners of private lands, tenants, other Divisions of the Department of Land and Natural Resources, other County, State, and Federal agencies.
- D. The permittee and each assistant are individually responsible and accountable for his or her actions while performing collecting activities authorized by this permit; additionally, the permittee is responsible and accountable for the actions of his or her assistant(s).
- E. This permit is not transferable or assignable.
- F. A copy of this permit must be carried by the permittee or assistant while performing collecting activities authorized by this permit.
- G. This permit authorizes collection of organisms protected by Federal law only with prior appropriate Federal authority, which must be described on Page 1 of this permit.
- H. This permit expires on the date indicated on Page 1; within one month the permittee must return this permit to the Division of Aquatic Resources with complete information on all collecting done under this permit, as indicated on the Collecting Report Form provided as part of this permit.
- I. The permittee and assistants agree to provide access to data obtained under authority of this permit upon request of the Division of Aquatic Resources, and to provide to the Division a copy of each report, published for distribution, prepared with data obtained under this permit.
- J. Any person who violates any condition of this permit may cause revocation of the permit, and shall be subject to penalty as provided by law; such infraction may be cause for future denial of permit applications.

II. SPECIAL CONDITIONS:

1. This Permit authorizes the permittee and designated assistants only to capture green sea turtles (Chelonia sp.) and hawksbill sea turtles (Eretmochelys imbricata) by hand in a non-injurious manner only in the waters of the State including the following locations where collecting activities are normally prohibited:

OAHU
 Hanauma Bay MLCD
 Pupukea MLCD
 Waikiki MLCD
 Coconut Island MLR
 Heeia Kea Wharf FMA
 Waialua Bay FMA
 Pokai Bay FMA
 Honolulu Harbor FMA
 Diamond Head SFMA

HAWAII
 Kailua Bay FMA
 Wailea Bay MLCD
 Lapakahi Bay MLCD
 Kealakekua Bay MLCD
 Hilo Bay FMA
 Puako Bay & Reef FMA

LANAI
 Manele Harbor FMA

MAUI
 Kahului Harbor FMA
 Honolua-Mokuleia Bay MLCD
 Molokini Shoal MLCD

KAUAI
 Waimea Recreation Pier &
 Waimea Bay FMA
 Hanamaulu Bay FMA

This does not permit activities at other prohibited locations or areas that may be designated as such during the effective period of this permit. Discretion should be used to avoid conflict with fishermen or others during collecting activities at any location.

2. The permittee and designated assistants will also be allowed to use scoop nets and other legal size nets including "bullpen traps" as approved under Section 188-28.5, HRS, to capture turtles except at the normally prohibited areas listed above.
3. Following the capture of the turtles, the collection of the required data and the affixing of the identification tags, all captured turtles will be returned to the wild.
4. This permit does not by implication authorize the primary permittee or any designated assistant to engage in any other activity if in violation of any other State, Federal or County law, regulation or ordinance. The permittee shall obtain and/or renew all necessary Federal permits and/or authorizations required for the capturing of green sea turtles (threatened species), and provide copies to the Division of Aquatic Resources prior to initiating any activity under this permit.
5. The primary permittee or a designated assistant responsible for the field collecting activity shall notify the Division of Conservation and Resources Enforcement at least 48 hours in advance of any field collecting activity and provide such information as: location; date; time; and number of persons to be involved. Telephone - Honolulu 548-5918; 548-3966; or 548-5919 or any District Office located on Hawaii, Maui and Kauai.

SCIENTIFIC

COLLECTING Permit No. SCP 91-01

6. The permittee shall provide the Director of the Division of Aquatic Resources all reports and/or findings emanating from the use of this permit.

WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

cc: DOCARE
 Fisheries
 Forestry & Wildlife
 Special Agent in Charge,
USFWS, Honolulu
 Ernest Kosaka, USFWS
 NMFS, Honolulu

REPORT OF COLLECTING

Results of all collecting activities performed under authority of this permit must be reported on this form (or copies) within one month after the permit expires (see first page). Use as many sheets as you need. Submit the report to the Division of Aquatic Resources at 1151 Punchbowl Street, Room 330, Honolulu, HI 96813.

Date	Location	Common or Scientific Name	Quantity Collected*	Disposition of Specimens
------	----------	------------------------------	------------------------	-----------------------------

Signature of Permittee Date

*If salvaged (collected because the specimen was dead or injured already), please detail circumstances: condition (dead, or describe extent of injury), how or from whom the specimen was obtained.

SIGNATURE AND ACKNOWLEDGEMENT

By my signature below, I attest that I understand the general conditions (Items A-J on Page 2) and any special conditions (Nos. 1, 2, 3, 4, 5 & 6 on page 3) of Scientific Collecting Permit No. SCP 91-01; further, I agree to abide by all of these conditions when collecting under authority of this permit.

PRINCIPAL PERMITTEE:


GEORGE W. BOEHLERT

Designated Assistants:

Signature 
Print Name: WILLIAM G. GILMARTIN

Signature 
Print Name: GEORGE BALAZS

Signature 
Print Name: EDWIN MISAKI

Signature _____
Print Name: JOHN R. HENDERSON

Signature 
Print Name: LARRY KATAHIRA

Signature _____
Print Name: _____

X Signature 
Print Name: HOWARD HOSHIDE

X Signature 
Print Name: MARC RICE

X Signature 
Print Name: ANDY KIKUTA

Signature 
Print Name: BRENDA BECKER

Signature _____
Print Name: MARGARET LEE

X Signature 
Print Name: WALTER DUDLEY

Signature 
Print Name: LEON HALLACHER

Signature _____
Print Name: _____

THE NATURE CONSERVANCY OF HAWAII



• 1116 SMITH STREET • SUITE 201 • HONOLULU, HAWAII • 96817 • (808) 537-4508 •

Memorandum

To: George Balaz, Bill Puleloa, Joan Aidem, Dr. Richard and Mrs. Ruth Langer

From: Ed Misaki

cc: Torrie Haurez, Nathan Ignacio, Alan Holt, Barrie Morgan

Date: June 19, 1990

Subject: 1990 Summer Turtle Nesting Monitoring at Kawaalao Bay, Moomomi

Its that time of the year to look for turtle nestings. Bill Puleloa and I anticipate that it will be a banner year if the previous years patterns hold up. Turtle monitoring will officially begin on Sunday, July 1. I am also passing on my coordination role to Torrie Haurez. She will be the contact person from TNCH and will work out the schedules and passing out the keys. Bill Puleloa and George Balaz are our resource specialist.

Names of Participants

Dr. George Balaz, Zoologist
Marine Mammals and Endangered Species Program
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822

Phone: 943-1221
395-6409

Bill Puleloa, Aquatic Biologist
Division of Aquatic Resources, DLNR
P. O. Box 248
Kualapuu, Hawaii 96757

Phone: 567-6696 wk
553-3778 hm

Joan Aidem, Naturalist
General Delivery
Kaunakakai, Hawaii 96748

Phone: 553-5641

Dr. and Mrs. Richard Langer
P. O. Box 789
Kaunakakai, Hawaii 96748

Phone: 567-6545
553-5353

Torrie Haurez, Field Coordinator
Molokai Preserves, TNCH
P. O. Box 220
Kualapuu, Hawaii 96757

Phone: 567-6680

Samuel A. Cooke, Chairman
William E. Aull
Peter D. Baldwin
Kenneth F. Brown
Zadoc W. Brown, Jr.
Colin C. Cameron
Robert F. Clarke

David C. Cole
Herbert C. Cornuelle
Gerald M. Czarnacki
Michael E. Haig
Frank J. Hala

David A. Hernan
Libert K. Landgraf, ex officio
Frank J. Manaut
Bill D. Mills
Robert H. Ozaki

Marguerite M. Paty
Charles J. Pitsch, Jr.
Diane J. Plotts
H.M. Monty Richards
Jean E. Rolles

Charles P. Stone, ex officio
William H. Stryker
Edward D. Sulhan, Jr.
Laura L. Thompson
Laurence Vogel
Jeffrey N. Watanabe
Gaylord H. Wilcox

Monitoring Scheme

- A. Joan, Dick, Bill and Torrie, will work out a schedule to check for turtle tracks at least every other day. Please call Torrie to work out the calender by, Friday, June 29.
- B. When a positive sighting is made, draw a sketch of the tracks as well as the nest site. Describe in detail the nest site. Report to Bill immediately. Bill will determine our monitoring scheme from here on in. Torrie will provide maps that we used last year to aid in note taking. Please take notes even when no sighting is made.
- C. We will monitor over the course of the nesting season (July - October) and will try to tag nesting females, and recover hatchlings and egg shells. All data and field notes will be handed over to George and the National Marine Fisheries Service.

We need to be very low-keyed about this monitoring project as human disturbance can distract the turtles from nesting. Please be very discrete about the monitoring project. Good luck and happy turtle monitoring.

Tues. am, July 25
1989



6861

Memorandum

To: HFO staff, Heritage and Maui Project
From: Torrie Haurez
Date: July 11, 1990
Subject: Turtle monitoring at Mo'omomi

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Mo'omomi is closed to the public on Tuesdays and Wednesdays so if you want to come and camp overnight you are welcome to do that.

During the month of August we will also be needing help on Mondays and Thursdays if anyone is interested.

Please call me if you think you might like to help out.

Mahalo!!

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 Kailua Bay FMA
 Wailea Bay MLCD
 Lapakahi Bay MLCD
 Kealahou Bay MLCD
 Hilo Bay FMA
 Puako Bay & Reef FMA

LANAI
 Manele Harbor FMA

MAUI
 Kahului Harbor FMA
 Honolua-Mokuleia Bay MLCD
 Molokini Shoal MLCD

KAUAI
 Waimea Recreation Pier &
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 Hanamaulu Bay FMA

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SCIENTIFIC

COLLECTING Permit No. SCP 91-01

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WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

- cc: DOCARE
 Fisheries
 Forestry & Wildlife
 Special Agent in Charge,
USFWS, Honolulu
 Ernest Kosaka, USFWS
 NMFS, Honolulu

SCIENTIFIC

COLLECTING Permit No. SCP 91-01

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Signature of Permittee _____ Date _____

*If salvaged (collected because the specimen was dead or injured already), please detail circumstances: condition (dead, or describe extent of injury), how or from whom the specimen was obtained.

SIGNATURE AND ACKNOWLEDGEMENT

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PRINCIPAL PERMITTEE:

George W. Boehlert
GEORGE W. BOEHLERT

Designated Assistants:

Signature *William G. Gilmartin*
Print Name: WILLIAM G. GILMARTIN

Signature *Edwin Misaki*
Print Name: EDWIN MISAKI

Signature *Larry Katahira*
Print Name: LARRY KATAHIRA

X Signature *Howard Hoshide*
Print Name: HOWARD HOSHIDE

X Signature *Andy Kikuta*
Print Name: ANDY KIKUTA

Signature _____
Print Name: MARGARET LEE

Signature *Leon Hallacher*
Print Name: LEON HALLACHER

Signature *George Balazs*
Print Name: GEORGE BALAZS

Signature _____
Print Name: JOHN R. HENDERSON

Signature _____
Print Name: _____

X Signature *Marc Rice*
Print Name: MARC RICE

Signature *Brenda Becker*
Print Name: BRENDA BECKER

X Signature *Walter C. Dudley*
Print Name: WALTER DUDLEY

Signature _____
Print Name: _____

THE NATURE CONSERVANCY OF HAWAII



• 1116 SMITH STREET • SUITE 201 • HONOLULU, HAWAII • 96817 • (808) 537-4508 •

Memorandum

To: George Balaz, Bill Puleloa, Joan Aidem, Dr. Richard and Mrs. Ruth Langer

From: Ed Misaki

cc: Torrie Haurez, Nathan Ignacio, Alan Holt, Barrie Morgan

Date: June 19, 1990

Subject: 1990 Summer Turtle Nesting Monitoring at Kawaalao Bay, Moomomi

Its that time of the year to look for turtle nestings. Bill Puleloa and I anticipate that it will be a banner year if the previous years patterns hold up. Turtle monitoring will officially begin on Sunday, July 1. I am also passing on my coordination role to Torrie Haurez. She will be the contact person from TNCH and will work out the schedules and passing out the keys. Bill Puleloa and George Balaz are our resource specialist.

Names of Participants

Dr. George Balaz, Zoologist
Marine Mammals and Endangered Species Program
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822

Phone: 943-1221
395-6409

Bill Puleloa, Aquatic Biologist
Division of Aquatic Resources, DLNR
P. O. Box 248
Kualapuu, Hawaii 96757

Phone: 567-6696 wk
553-3778 hm

Joan Aidem, Naturalist
General Delivery
Kaunakakai, Hawaii 96748

Phone: 553-5641

Dr. and Mrs. Richard Langer
P. O. Box 789
Kaunakakai, Hawaii 96748

Phone: 567-6545
553-5353

Torrie Haurez, Field Coordinator
Molokai Preserves, TNCH
P. O. Box 220
Kualapuu, Hawaii 96757

Phone: 567-6680

Samuel A. Cooke, Chairman
William E. Aull
Peter D. Baldwin
Kenneth F. Brown
Zadoc W. Brown, Jr.
Colin C. Cameron
Robert F. Clarke

David C. Cole
Herbert C. Cornuelle
Gerald M. Czarnacki
Michael E. Haig
Frank J. Hata

David A. Heenan
Libert K. Landgraf, ex officio
Frank J. Manaut
Bill D. Mills
Robert H. Ozaki

Marguerite M. Paly
Charles J. Pietsch, Jr.
Diane J. Plotts
H.M. Monty Richards
Jean E. Rolles

Charles P. Stone, ex officio
William H. Stryker
Edward D. Sullivan, Jr.
Laura L. Thompson
Laurence Vogel
Jeffrey N. Watanabe
Gaylord H. Wilcox

Monitoring Scheme

- A. Joan, Dick, Bill and Torrie, will work out a schedule to check for turtle tracks at least every other day. Please call Torrie to work out the calendar by, Friday, June 29.
- B. When a positive sighting is made, draw a sketch of the tracks as well as the nest site. Describe in detail the nest site. Report to Bill immediately. Bill will determine our monitoring scheme from here on in. Torrie will provide maps that we used last year to aid in note taking. Please take notes even when no sighting is made.
- C. We will monitor over the course of the nesting season (July - October) and will try to tag nesting females, and recover hatchlings and egg shells. All data and field notes will be handed over to George and the National Marine Fisheries Service.

We need to be very low-keyed about this monitoring project as human disturbance can distract the turtles from nesting. Please be very discrete about the monitoring project. Good luck and happy turtle monitoring.



United States Department of the Interior

NATIONAL PARK SERVICE

Kaloko-Honokohau National Historical Park
73-4786 Kanalani Street, #14
Kailua-Kona, Hawaii 96740

IN REPLY REFER TO:

K14

July 19, 1991

Nature Conservancy
P.O. Box 40
Kualapuu, HI. 96757

Dear Tori:

I enjoyed my visit to Mo'omomi beach on June 19 and thank you for making it possible! Remember the turtle nesting I photographed? I had them developed and hope you are now still there, but if you're in Maui, then your replacement can have them.

Find the enclosed three slides with index to be useful in your preparations and documentation of the turtle nesting activities at Mo'omomi beach.

Should you need further explanations of the slides, please call me at (808) 329-6881.

Irving V.R. Brock
Park Ranger

Enclosures

*Slides sent to Bill Puleloa
JUL 23 1992*



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Irving V.R. Brock
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Enclosures

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JUL 23 1992