

LANAI 85  
91  
92  
93  
97

LANAI

LANAI  
BALAZS



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SUSAN HUNTER  
MICHAEL  
DBA 565-6961  
565-6961  
547 12th STREET

1/4/92 & 4/26/92 TAGGING  
(V402-V405) BY ALBERT MORITA — P. 76

2002  
RON McCOMBER-  
565-6071

PATTY WEITZEL  
CLUB LANAI  
355 HUKILIKE ST.  
SUITE 211  
KAHULUI, MAUI, HI  
96732

KEO MOKU LANAI =

20° 51' N, 156° 50' W



COMPOSITION BOOK • 9 3/4 IN. x 7 1/2 IN.

AVAILABLE AS:

VM COMPUTER NO.	B&P STOCK NO.	SHEETS	RULING
09-9130	13534	60	COLLEGE RULED & MARGIN
09-9132	13535	60	COLLEGE RULED & MARGIN & PAGED
09-9134	-	100	COLLEGE RULED & MARGIN

BOORUM & PEASE CO. ELIZABETH, N.J. 07208

MADE IN U.S.A.

Robert & Dorothy Box 26  
DIANE PREBLA  
Box 1117 LANAI CITY  
R&D AMAREAL  
565-6055  
Daughter  
14 months old  
in 6/92  
-husband 96763



NOTE: Scuba dives 5/85 off Keomuku & Halepohoa are in Maui data book. (ALSO NOW TAPED IN THIS BOOK TOO)

5/91 MORITA RETURNED TAGS:

8/78 - TAGS 2526-2535 sent to Peter Conolly  
4-6 MAY 85... page 46-50 zodiac & Scuba from Maui Malahart

8-12 JULY 1985 - LANAI (GHB & R. Forsyth)  
p. 21-40

Club Lanai - Maui office 871-1144  
Lanai = 661-0330  
Patty WEITZEL home - 878-2847

DOCAEB LANAI = 565-6688  
Albert Morita Wife = Julie  
Mike Coelho

27-29 JUNE 1990 TAGS = Y910-Y913; Z85  
CLUB LANAI VIA MAUI  
page 51-56

1 JUNE 91 LAEHL p. 57 -  
KA LAE (WHITE ROCK) TAGS = VII-VI6  
w/ALBERT MORITA

23-26 JUNE 92 LANAI TAGS = H812-H825  
Balazs & Miya p. 63, 64 -  
[H833-H850] TAGS used = see p. 69  
(43 CAPTURED)



GHS&RM

P. 77-

P. 93-100

1-4 JUNE 93

TAGS USED = (P883-P999) (Some lost in ocean)

47 captures (7 recaptures) (8726-8747)

10 lost TAGS - see p. 97

(J5-J9)

\* Things needed for Sept 2002 Lanai Trip:

- Print out of all Lanai Tagging; Digital Video Camera;
- Ki Emory Lanai book; Narrative 1974 Lanai (Already in tm book);
- New Lanai Data book; Tidechart; John Wolke Beaches of Maui County;
- Helicopter Survey?; NOAA 1985 TM - Lanai Section; Use metal tags also?;
- NET - Scoop nets; GPS UNIT;

empty pages p. 86-92

8785-878 - email

8785-878 = LANAI

Albert Morley Mike Corbett

87-88 June 1990

COMPOSITION BOOK

June 1990

KA (AE)

(Lanai Rock)

VII - VII

87-88 June 1990

LANAI

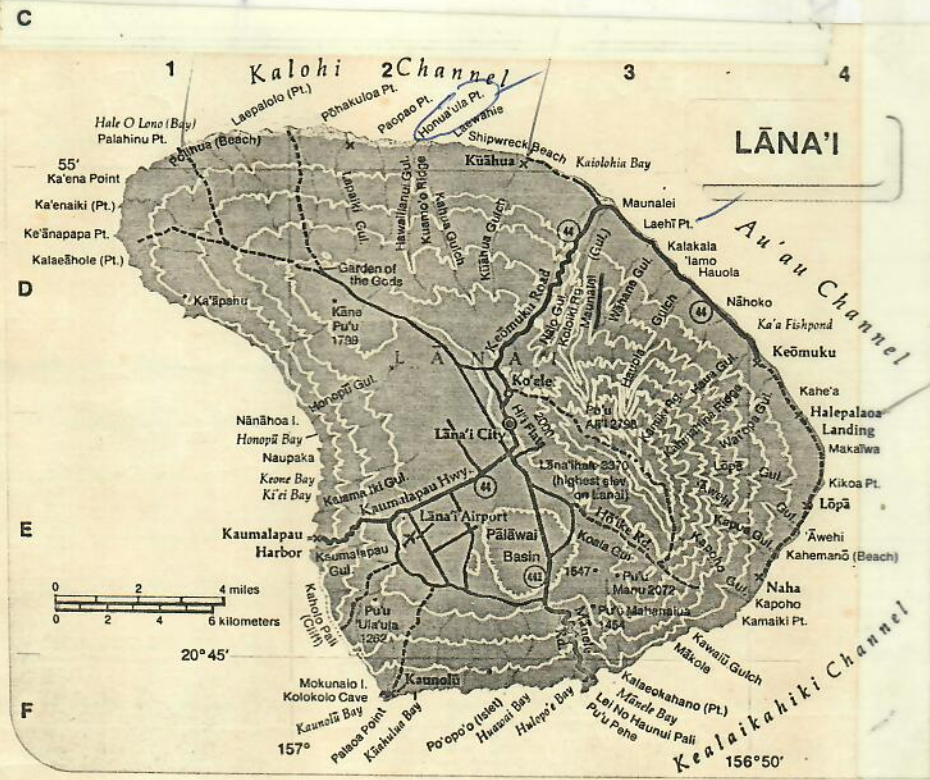
87-88 June 1990

LANAI

87-88 June 1990

LANAI





16

Halepalaoa to Lanai city ~ 20km  
or 12.5 miles



July 85

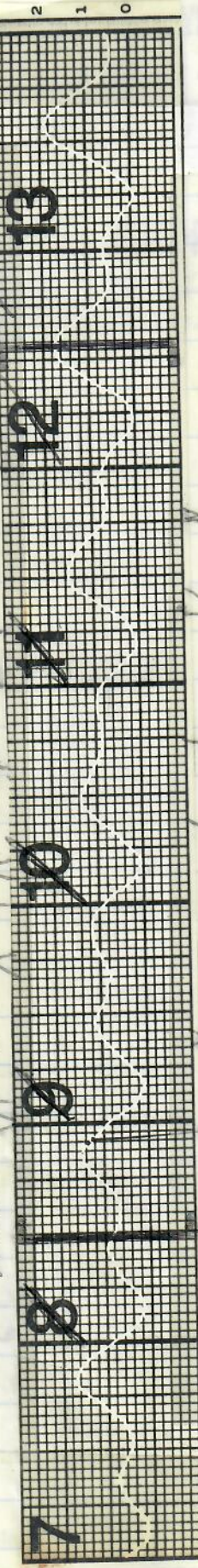
MON

TUES

WED

THURS

FRIDAY



ARRIVE FEEDING TRAP

NIGHT WALK BEACH

WALK TOWARD WAIANAE

ARRIVE AT POLIHUA  
DAY WALK TO WEST

DEPART POLIHUA

UNKNOWN SEEN FEEDING CLOSE TO SHORE - PHOTOS

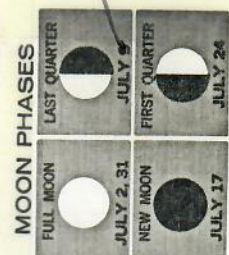
SNORKEL SURVEY POINT END-OF-POINT TO LAKE SITE (WEEP X SITE)

JUMPED 2 TURTLES OFF NEARSHORE BEACH ROCK

ROYAL HAWAIIAN AIR SERVICE TO LAHAI

For tide time at following places, add or subtract from Honolulu time.

PORTS	Hrs. Mins.		Hrs. Mins.		
	+	-	+	-	
HANAIE BAY, KAUAI	-1	40	KAUNAKAKAI, MOLOKAI	-0	09
NAWILIWILI BAY, KAUAI	-0	32	KAHULUI, MAUI	-1	48
PORT ALLEN, KAUAI	-0	32	KIHEI, MAALAEA BAY, MAUI	-0	14
HALEIWA, OAHU	-1	36	HILO, HAWAII	-0	59
HANAUMA BAY, OAHU	-0	55	HONUPOO, HAWAII	-0	24
KANEHOE BAY, OAHU	-1	35	MAHUKONA, HAWAII	-0	24
LAIE, OAHU	-1	48	KEALAKEUA BAY, HAWAII	-0	16
WAIANAE, OAHU	+0	16			
WAIMANALO, OAHU	-1	15			





"In Search of the Elusive, <sup>and mysterious</sup> Hawaiian green sea turtle"

13:15 D. 20kph trades - wind

14:15 P. - Lanai 3:55

15:00 P. - Lanai 3:55

16:00 P. - Lanai 3:55

17:00 P. - Lanai 3:55

18:00 P. - Lanai 3:55

19:00 P. - Lanai 3:55

20:00 P. - Lanai 3:55

21:00 P. - Lanai 3:55

22:00 P. - Lanai 3:55

23:00 P. - Lanai 3:55

24:00 P. - Lanai 3:55

25:00 P. - Lanai 3:55

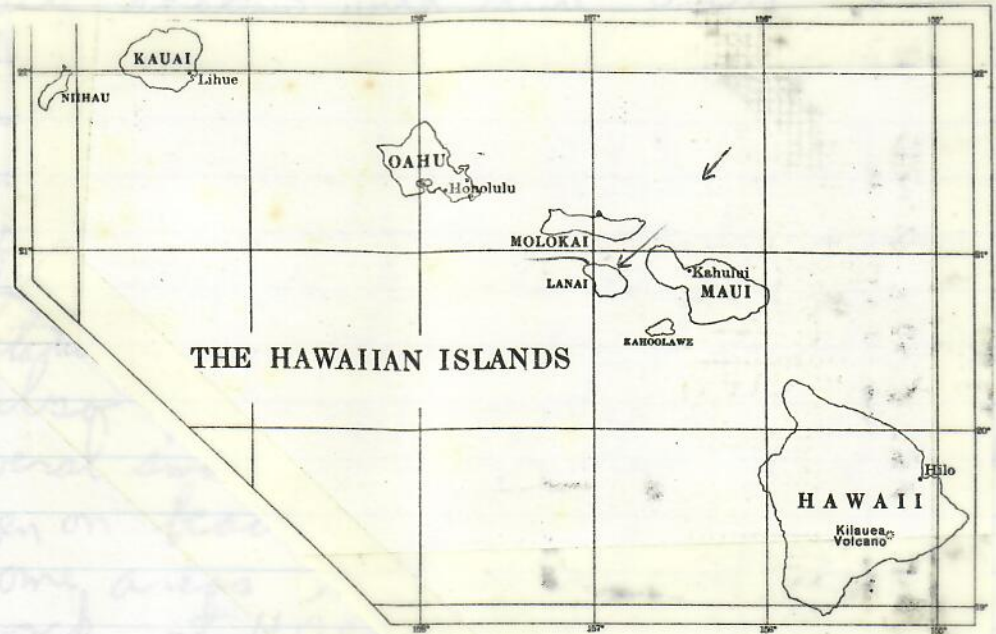
26:00 P. - Lanai 3:55

27:00 P. - Lanai 3:55

28:00 P. - Lanai 3:55

29:00 P. - Lanai 3:55

30:00 P. - Lanai 3:55



several seen on beach  
 some are  
 rock at  
 lots of small  
 glass, wood from  
 100 ft  
 have rock  
 on beach  
 another  
 had



"The Study of the Elements of Arithmetic"

1000

1000

1000

July 85



Sept 7

Depart from Honolulu for Lanai via Molokai  
at 3:15 PM. 20mph trades - white caps -  
some clouds - Lanai 3:55

From Robert Amos

8-873

Drove to Lapki 8:45 - stuck in sand.  
→ 11:20 Pohakuloa Pt.

PHOTOS

vinyl page

narrow sand-red dirt beach with sand  
dune vegetated cliffs. Fringing reef offshore,  
fairly shallow with dirty water.  
Much Limu along beach - red, green,  
sargassum, etc.

Less reef apparent after Pohakuloa Pt.

Awauiua onward - some sandy coves, but  
also steep bank with thick Keawe  
vegetation in some places. Wind eroded soil,  
also picks up sand.  
Several small white with black spotted birds  
seen on beach.

Some areas with beach and lava  
rock at H<sub>2</sub>O edge.

Lots of small drift wood, litter (plastic,  
glass, wood from wrecks, etc.)

1:00 PM Nice sand cove with steep bank -

lava rock point on West end, thereafter frequent  
lava rocks on beach.

1:10 another sand cove w/ big lava rocks.

Small Frigate seen in the air!



Some plants ( $\frac{1}{2}$  Flower) but seems like smoother leaves. - beach morning glory, koa haole.

Polihua - about 100 yards wide at most places. Thick vegetation keawe and koa haole - lots of litter in veg. zone. Western end - large rock again. 2 people on beach fishing. 2 dead small sharks on beach. 1 Ray caught. School of akule seen off beach. 1 Turtle seen offshore (100lbs?+).

Robert - saw turtle at  $\frac{1}{2}$  o edge from boat last year.

Joe - remembers catching turtles on beach in 1920s.

Fisherman - saw seal at West end last year.  
Kaupuki -

Seems to be some sentiment against taking turtles on Lanai due to Maui people coming over taking for commercial use.

Dove for bottles at Harbor.

9-9-73

Drove to Keomoku - went diving to reef - Robert saw one small turtle - Dove at second location - no turtle. Robert says that many turtles have been seen here. Talked to Elsie Kaupuki - her father dug for eggs and turned turtles at Polihua about 1915-1920.

3:55 PM

Depart for HONO via Maui



Some plants ( $\frac{1}{2}$  Flower) but seems like smoother leaves. - beach morning glory, koa haole.

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3:55 PM

Depart for HONO via Maui



9/18/02 <sup>seen PRINT picture</sup> 3 turtles feeding  
 10 pm N 20.92608 on walk from Polihua  
 W 157.02117 TO AUAUKA

LEGEND



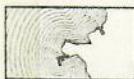
Roads and buildings



Private or secondary roads



Trail



Wharves



Ahupuaa or land grant line



Triangulation or primary traverse monument



Boundary monument

Polihua about 100 yds ...  
 thick vegetation ...  
 of ... in veg. zone ...  
 back again. 2 people ...  
 2 dead ... sharks on beach. 1 ...  
 school of ... seen off beach. 1 ...  
 offshore (adult).

about ...  
 ...  
 ... saw seal at ...

seem to be some ...  
 ... due to ...  
 for commercial use.

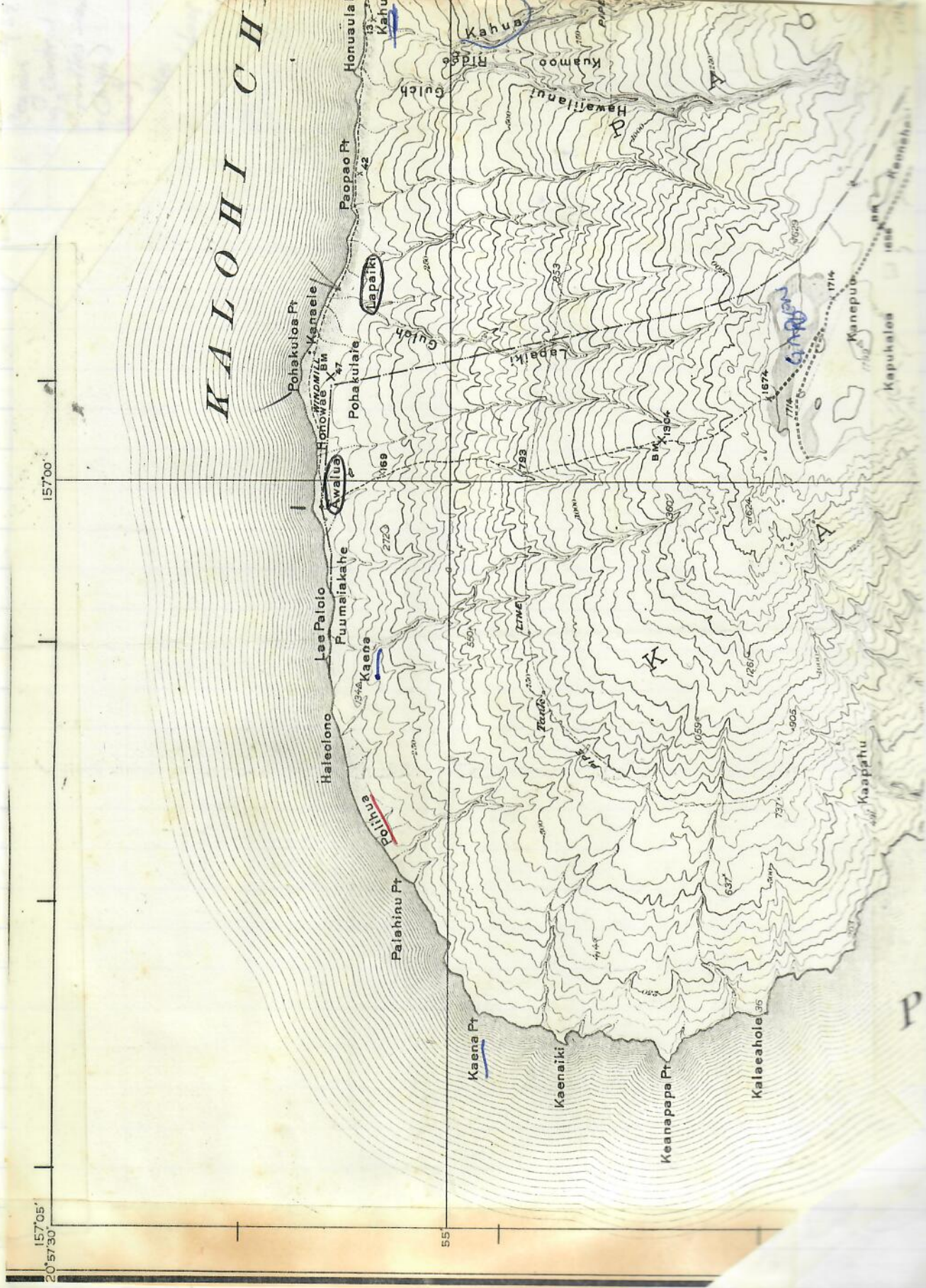
Doe for bottles at Harbor.  
 9-9-73  
 Drive to Keomoku - went down to reef  
 Robert saw one small ...  
 ... at second location ...  
 Robert says that ...  
 ...



157°05'  
20°57'30"

157°00'

# KALOHI CH



P



SORRY IT TOOK SO LONG TO ANSWER YOUR INQUIRY,  
BUT HERE GOES.

FIRST, 20-30 TURTLES IS AN EXAGGERATION BUT  
10 TO 15 IS ~~MORE~~ ACCURATE. THAT IS A HIGH FIGURE.

AS TIMES 2 TO FIVE ONLY HAVE BEEN SEEN THIS MAY  
BE SEASONAL OR MAY BE DUE TO THE VAGUE LOCATION  
OF "TURTLE TOWN". THE DIVE WE DO IS OFF MANNALEI.

→ GULCH IS IN 30 TO 60 FEET OF WATER. IT STRETCHES  
PERHAPS FOR 3 MILES ALONG THAT COAST. MOST TURTLES  
ARE IN 10 TO 30 FEET OF DEPTH & TUCKED IN CORAL OVER HAMS  
OR IN THE <sup>SAND</sup> VALLEYS RUNNING SEAWARD BETWEEN LAVA RIDGES.

→ THE TURTLES VARY IN SIZE FROM 1 FOOT TO 2.5 FEET.  
AS FOR SEASONS, WE GO TO THAT AREA SO INFREQUENTLY  
THAT IT WOULD BE IMPOSSIBLE TO SPECULATE. WE'VE DIVED  
THAT AREA MAYBE 5 TIMES IN 2 YEARS. I CANNOT EVEN  
RECALL AT WHAT TIME OF YEAR I'VE BEEN THERE ONLY THAT  
WE GO WHEN WEATHER FORCES US. (A SOUTH SWELL & EAST WIND  
FOR EXAMPLE, BLOWS OUT MANNALEI & DURING THE SEASON WE'VE BEEN)

TO LEAD  
FROM  
CONSIDER!  
FROM Steve Young  
CENTRAL PACIFIC DIVER

DEC 1984









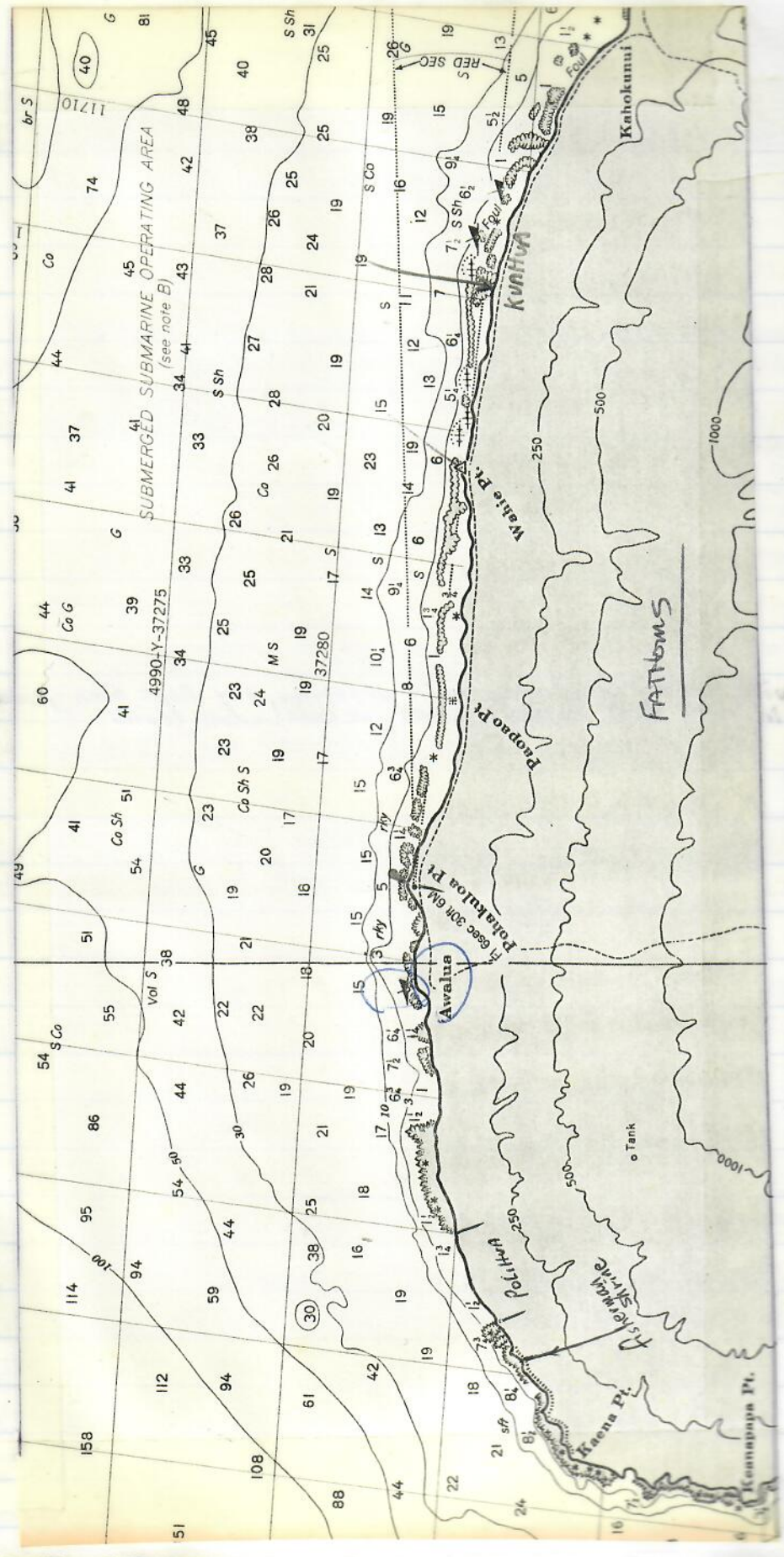
T R I C T

K A O H A

C H A N N E L

Kalaeokahano







## HEIAUS OF FISHERMEN

On Lanai, fishermen's shrines, *ko'a*, are numerous and varied; some are rectangular enclosures or platforms, others are circular, and still others are simple heaps of stone. None are larger than 25 feet square. Coral, shells and fish bones are almost invariably associated with the ruins.

Two structures each having the appearance of a *ko'a* stand on the east bank of Polihua valley. One, erected on the sloping edge of gulch, is an enclosure 20 by 25 feet. Like the *ko'a* at Kaumalapa'u, this heiau is peculiar in that the wall maintains a uniform height even on the steep slope. The wall is six feet high and obstructs the view of the sea from the platform. The platform, made of large flat stones, is on a slope not so pronounced as that of the wall. An altar (one foot high) on the upper end of the platform is made of smooth stones and contains pieces of coral, sea shells (mostly unbroken cowry) and fish bones.

—Twenty-five yards south of this structure is a pentagonal platform 10 by 15 by 10 by 14 by 6 feet, and 2 to 4 feet high. The pavement is depressed, but affords a view of sea. A hole in the pavement, 2 feet deep and 2 feet in diameter, is partly covered

*with a slab. Calabashes with offering may have been placed in hole, but no shells, bones, or coral were found*

## HEIAU AT KAENA-IKI

The stone platform, 55 by 152 feet, at Kaena-iki, is one of the two largest heiau foundations on Lanai.

The platform lies parallel and close to the edge of a bluff at the head of the bay, and on the north bank of the stream; the main part of the village is on the south bank. (See fig. 6, a.) The elevated pavement on the north is of very rough stones, in the northwest corner of which is a small hole probably intended for an image socket. The south pavement is of small, loose stones. Rock is abundant about the heiau, but smooth, water-worn stones from the shore below the bluff were found scattered through the structure. The walls are only two to three feet high; the small pen in one corner is two feet high. The south division of the heiau rests on bare ground. No natives have lived on this end of the island for a great many years, and no name for the heiau is remembered.



See *Beaches of Maui County*  
by John Clarke (1980)



8 JULY 1985  
MONDAY

Depart for Lanai on Royal Hawaiian Airlines at 11am (#50RT). Arrive - 11:30am. Picked up by Oshiro's Service Station and U-drive. Rented a jeep #65. Ate lunch at a "property" store. Had to wait from grocery store to open at 1:30pm, also for west flight to bring 2 more of our luggage. Saw Roy Okamoto and Ron Mcomber. Visited Lanai school gym to see ceramic turtles - some broken. Bought some supplies at Richard's Shopping Center, picked up bags at airport, then departed for Polihua - 2:45pm. Drive north on paved road that Oshiro's station is on and continue on pineapple dirt road.

Signs still exist for Lapiki, Awaia & Polihua dirt road. Road in good shape until coming down Polihua. Slow and rugged. Photos with Molokai in background when white sand of Polihua became visible. Arrive Polihua ~ 4:20pm. 1 1/2 hour trip. No one else here, but jeep, and motorcycle(?) tracks on the beach. Where road comes to the beach there is a mudd<sup>ed</sup> down "cliff". Checked dried mud. Still partly wet & reported rain here - 2 weeks ago. When walking over adjacent same, feet sunk down like "quick sand". Wet mud



8 JULY 85  
MONDAY

underneath. We then walked to the east end of Polihua. Wind occasionally picks up sand - "sand blasting". Noted soda cans with clean aluminum portions. Pieces of Keawe in the sand. Beach estimated - 100 yards in most places. Found a coconut sand-blasted to look like "hair". Current along shore very apparent. Little or no reef. Green water, then dark blue a short distance off. "Green" also caused by silt/discoloration in the water. Photos taken of silt/mud layering up higher on the beach. Silt spots, a probably more prevalent where streams run in from rainfall. Also, the dirt road itself may be responsible for channeling water down. Noted bulging "blind" spots along the way to divert water. Also noticed that the greatest amount of mud and silt deposit is right where the road meets the beach. Jeep tracks, at least one set, extend all the way to the east rock border of Polihua. At the end, a very high smooth-topped sandbar is prominent, bordered by Keawe bush growing at an angle due to constant wind. Noted that roots are commonly exposed and tremendously long. Runners all over the place. We walked away further along



8 JULY 85

23

Monday

A few pieces of algae washed in here. Sandstone  
virtually no algae seen along shoreline of Polina.  
rocky and sand shoreline for enough to  
see the ship <sup>wreck</sup> pointing in at Awalua.  
Turned around and walked back to  
jeep site. No signs of any turtle  
tracks or nest mounds noted.

Set up our tents on the sand below the  
jeep under the keawe trees. Noted that  
trade winds are less at this west  
end of the beach, since as you go <sup>to the</sup>  
east the beach curves and becomes  
more aligned to the east/west  
orientation - more exposed to E-NE trades.  
Noted a sandstone small rise near our  
campsite with shallow depressions.

Charcoal/burnt wood associated with  
it, so assumed to be an old campsite.

I dug down by hand and noted  
moist sand underneath - appropriate for an  
egg chamber. Also noted warmth to  
hand - even now that surface seems  
cool due to sun being low on  
horizon. Composition of sand must  
be such that it absorbs heat. Fine  
and coarse particle mixture. Some must  
be volcanic origin + red dust particles.  
Would probably be good for incubating  
Turtle eggs. Note - no "glassy"  
areas any longer exist along Polina.  
After setting up tents, we walked



8 JULY 85  
MONDAY

to the western extremity/rock outcrop  
of Polihua / foot-hill / "canyon" (gully) wall  
rise. A stream bed was found in  
back of beach dune. Water setting in  
it with lots of animal (deer) tracks  
around. Pickleweed growing profusely.  
Immediately at the top of an elevated  
dune area near here I could see  
2 wind-blown depressions, possibly  
old turtle digs. Seems unlikely they were  
fine places. Noted wind-blown or  
motorcycle tracks right adjacent to it.  
To the <sup>west</sup> east of the rocky point border of  
Polihua there are two more sand  
beach / rocky coves beach the  
sand permanently ends. The rock  
sticking out of the sand along here  
has been wind-blown to expose  
the bluish coloration under the black  
crust. Returned to tents for  
savored dinner as sun going down.  
Oriental man, walked by with  
fishing poles being arrived in Datsun <sup>4-whe</sup>  
pick-up. Set up poles and stayed  
until ~ 11pm. Set up near exit  
of stream at west extremity. We  
walked down and spoke to him -  
He said he's never seen signs of  
turtle on the beach here.



8 July 85

25

Monday

Second time coming this summer, but came lots last year. During the winter much of the sand is gone and wave washes up to where the rocks are.

Earlier Roy Okamoto's (Filipino) friend at the airport fire-station house told of accidentally hooking a turtle in the flippers (very large - 36") while fishing from the "windward shore".

Said he agrees with protection. Complained about use of small-eye net and how one person caught had begged of paying \$100 fine. He said that turtles come close to shore to feed on seaweed along the windward shore. Has seen their heads.

9 July 85 Between 12:30am & 2am Robert & I  
TUESDAY walked the beach together in both directions, mainly looking for turtles beached to bask. No signs seen. Tide dropping. Saw numerous large ghost crab burrows along the intertidal zone. Slept until ~ 7am. At 8:15am we walked to the west to the end of all sand shoreline (2-3 cores down); Kaena Pt. still wet in view at the place we turned around. Stone walled structure with porcellanora pieces all



9 JULY 85

PO. HUA

TUES:

inside. Smooth oblong stone upright with natural groove-indentation in it, with white growth. Almost looks manmade, but it isn't. Photos taken. Deteriorating material (cloth) with rust spots under coral pieces. Noted 3-wheel vehicles goes all the way to end of the road - must have been motorcycle type to get around all the rocks. Looked for obvious place where helicopter landing, but didn't see any. Returned to camp at 9:40am for breakfast.

Last night before moon came out, the glow from Honolulu was obvious. The lights of Kaurakabai were very prominent and close appearing.

At 10:30am a large black zodiac loaded with people came by (close to beach heading west.) "MAI ZODIAC" "CAPT. ZODIAC." Need to call them and ask about signs of nesting, if they go on tours often along here. About 30 minutes later a yellow outboard "koller" with guys came along heading the same way.

Worked (on various data) during the day. Slept for  $\frac{1}{2}$  12 noon - 12:45, but way too hot in the tent. - 3 pm another boat (fast inboard) came by.



9 JULY 85

POLIHUA

27

TUES.

SUNSET = 7:15 pm

moving west-to east. Turned toward Molobai when off our campsite.

At ~ 3:30 pm I took photos of cracked mud area where road leads to beach. Noted rubbish at campsite that included nothing deer parts.

4:30 pm we drove jeep to this site, then hiked to the east end of Polihua,

proceeded beyond for quite a ways, with Awaia wreck in full view, as well as tripod light on Papubaku Point. Several wind-blown sand dunes, high dunes, walked through.

Returned to camp ~ 6:30 pm.

Along east end, noted that our footprints from yesterday were mostly visible, but fading. Along last portion where red (dirt) washing over sand is evident, I again sunk down slightly - dry sand layer over wet red silt.

Back notes: Bristle trades - while caps in channel all day.

Sand picked up by wind, none so at curve in beach to the east.

Robt. saw turkeys at 12:30 pm.

Walked beach for baskets and nesting  
3:15 - 4:15 AM - nothing seen.

Slept until 8 am.

Temperature at ~ 12" = 81°F

Surface - 70°F

SAND SAMPLES AT ~ 12"  
TAKEN TO SAND TO BEADNE-MOCTMEL



10 JULY 85  
WEDNESDAY

Fishing boat came by ~ 8am.  
Loaded all gear and departed - 9:45 am.  
Sunny, hot, no clouds.

Odometer readings on jeep -

depart 171.4 > 3.6 miles

Kaena fork 175.0 > 1.4

Awahua " 176.4 > 1.0

Capaiki " 177.4

11:10 AM Arrive at Pohakuloa Pt. USCG Light - 182.8 <sup>5.4 miles</sup>

Walked to the east of light and  
watched "deeper" channel 11:30 - 11:45 am. none  
seen.

Note "At the surface, turtles are highly visible.  
No algae or rocks seen, but  
Dictyota (?) washed up in small pieces.  
Uncovered beached bones of small greens  
in dune sand near fishing site. Jaw  
and femurs saved. No Hummeri found -  
apparently meat taken to eat.

TO Capaiki - 183.4

Broken down wood house - lots of  
rubbish. Where Robert Amayal got stuck in 1974. <sup>4.7 miles</sup>  
Back up at Capaiki fork - marker 188.

KUAHUA, LANAI - 20°55'N, 156°55'W

Drove into town for gas (\$8.30), food  
supplies, water and call to Jim.

Drove down paved <sup>KOELE-</sup> Keomuku road  
to dirt road to end by (post)  
"Federation camp". Houses here

0.6 MILE  
COASTLINE  
BACK TRACK

FEDERATION  
CAMP



7/10/85

IS THIS  
KIKUI  
PT?

look good - new additions / maintained.

(4pm sat on "1929" cement pod for old USCG light(?), spotted 3

small juveniles up and down feeding 10-20' from shore. Water clean here - reef and sandy bottom areas visible - waves break on reef further out.

Sat on wood debris and observed - ALGAE NOT OBVIOUS

0.5m

typical hinds-up frogging behavior. only 1-2' deep - rocks and sand.

NOTED SOME MANGROVE SHOOTS ON SHORE - POLYTHA TOO

Noted funneling of Parilolo <sup>CHANNEL</sup> light at this shore of Jarai - Juveniles must get channeled here, COMING IN FROM HIGH SEAS -

Breaths -	4:19 <sup>PM</sup>	4:18:25 <sup>PM</sup>
	4:21	4:21:10
	4:22:26	4:26
	4:26:45	

Annotations: 2 min, 1:26, 4:45 sec, 2-3 up down, 4:50 sec

no fight response. Surely they saw us. Like Sandy beach, Oahu, observations.

4:55pm - Walked toward <sup>Prominent</sup> shipwreck (ferro-concrete wreck). Photos TAKEN <sup>last of</sup> ASA 25 & <sup>first of</sup> ASA 200. Iron stimulates algae growth? From all these shipwrecks? But which algae? Green like (possibly) at Johnston?

W Saw 2 small juveniles, close to shore again, ~200 yards east of shipwreck. Prior to this I noted "Channel," with iron stakes sticking up outside, where probably Robt Dooty





10 July 85  
Wednesday

- SHIPWRECK -

↑ took Firda and I years ago and he speared a small turtle, which later was released.

Shore to  
wave break  
300-400  
yards  
est.

KUAHUA

5:10 pm - Walking immediately off shipwreck

3 small juveniles close to shore.

A shore distance later - 4 more.

Just past shipwreck the coast curves out to a low rocky point. This must be lae wahi that Bill Paleloa referred to when telling of seeing a group of turtles and catching and tagging one. We turned back at this point. Noted piles of coral "chips" accumulated on the beach at various places.

6:00 pm Just east of shipwreck, before the Amara channel, we saw 4 med to sub

adults right next to beach rock bordering shore, feeding away. Bright green algae on beachrock - looks like Bryopsis or?

Several photos taken. Turtles saw us, but showed no alarm. Watched for 10-15 minutes, then returned to

Camp. Set up tents by wood shore. "LANAI HILTON" well-protected by heavy trees. At end of dirt road, just before cement pad ruins (an old vscg light?).

Chaetomorpha  
antennina?

p. 21  
MacGruder &  
Hunt

OR  
Enteromorpha  
Spp.



Lanai, "Federation site", reef flat, 7-11-85

Dictyota acuteloba  
Spiridia filamentosa  
red - Nemalion sp. (?)  
Laurencia sp.

P. 41  
MacGiverder  
& Hunt

50%  
45  
5  
Trace

11 July 85  
THURSDAY

KUAHUA -  
FEDERATION CAMP

31

Up at 6:00 AM - just a short time after sunrise. Last night we noticed all the lights along the Maui coastline - kamahele to Kahala. We breakfast and departed at 7:45 am for snorkel survey starting right in front of camp - where 3 julebies were watched feeding from wood debris. Collected algae on the rocks at this site - waxy like, low but thick red alga. Not noted further out or elsewhere. Snorkeled out narrow green gap into outer green area, but still within the reef. Followed shear edges around looking under bases for sleeping-resting turtles. Crossed to the west to the Channel where Robert A. took me out years ago (~1969). Nowhere more than ~10' deep <sup>3m</sup>. Appears to have lots of good sleeping areas. Coral chip and silt bottom. Around 3 steel posts projecting out of the water we saw a large lobster and a "7-11" crab. Also several medium size kumu and kala. Dominant algae all over seems to be Spiridia (sample taken for confirmation). Also lots of Spiridia blue green; and Dictyota <sup>yes</sup> acuteloba appearing. Proceeded west examining all green areas (pot holes) present. Spent some time in very shallow area adjacent



11 JULY 85  
THURSDAYLANAI NEWSPAPER?  
KUAHUA  
FEDERATION CAMP

Lanai, "Shipwreck" site, intertidal limestone beach, 7-11-85

Acanthophora spicifera

40%

Ulva fasciata

40

Wurdemannia sp. (?)

20

Griffithsia rhizophora

Trace

Centroceros clavulatum

Trace

Brittle star

to "focked" beach rock shoreline bench. Noted numerous small "clumps" of apparently cropped Ulva fasciata (?) growing in smooth hard bottom. Also, some Acanthopora, which has not been seen elsewhere here. Also, red filaments (Gelidopsis?) - samples taken of all <sup>WHAT WAS THIS</sup> ID. Wood planks and iron bolts seen along the shallow bottom here yesterday (we noted honey bees on a sand site right near rocks. Later today we saw deer and bird tracks leading right to the water's edge. Do the signs mean that freshwater <sup>yes - see CL</sup> comes <sup>in</sup> out along here? Proceeded west immediately inside shipwreck (waves break inside shipwreck, and current seem brisk inside and along-shore to hull. However, is it possible that turtles use the wreck for sleeping shelter? At the west end, before the point, we swam through small breakers out to deeper ~15' water - current mildly sweeping bottom, but out of 2 adjacent sand channels we saw 2 small juveniles swim off the bottom. Yellowish Sargassum-like (?) or ? in big clumps along the bottom. Swam



11 JULY 85  
THURSDAY  
FEDERATION CAMP

"preferred habitat" 33  
NEED - DEVISNEY coral book  
from library

-10:15am  
to shore. Most of the reef we swam  
over for 2 1/2 hours looked stressed with  
silt. Lots of rubble, with algae  
fuzzy growing on it. Blue-Greens and  
Syconia were the macro-fleshy dominants.  
However, live corals were also  
evident - finger coral, pinkish  
branched (Montipora), etc.  
Need to ask Bill Puleba - how far offshore  
turtles seen ② Arrive by boat, or car  
③ Weather conditions - time of day

Algae seen close to shore at feeding sites  
was different, and much sparser, than  
algae seen elsewhere.

Walking back along the coastline 10:30-11:15am  
we encountered (an older man with a  
throw net, then <sup>Thou-ney</sup> an old Filipino man,  
wife and 2 black (lab) dogs. He said  
he owns last house (just past our camp  
to the west - chained door). Doesn't come out  
often - works in town. When asked  
about turtles, he didn't say much.  
Seemed to indicate that he didn't see  
many.



11 JULY 85  
THURSDAY

Departed for Keomuku at 1:45pm

	<u>odometer</u>
HVB marker - at end of asphalt road -	206.6
Channel through reef, just after <sup>deep</sup> coral hump (white rock) -	208.1 > 1.5 MILE
"WAWAEKU TRAIL" 208.3	> 0.2
Containers (YB refug.) beach <sup>(photo)</sup>	209.7 > 1.4
4 on the beach - 1 out on the reef	> 3.4
Keomuku -	213.1
Past where breakers stop -	214.4 > 1.3
Star's Property -	215.2 > 0.8

Why haven't  
they been  
told to  
remove  
them?

We drove on the beach part of the way. Noted jeep track full length on beach, apparently by regular beach rombers. Need to alert them about reporting turtles - call Peter and ask. Lots of net and rope scraps on the beach. Think Kame, shallow reef flat out to breakers, made studying turtles on Lanai, from Lanai, very difficult. Better to have access from Maui. Deep channel noted was about the only site you could conveniently snorkel from shore. Noted lots of "private property" and fenced houses. Seems like more than ever before. Turkeys all over. White Stone - 221.9 (photo of channel).



11 JULY 85

Thursday

∴ (9.4 miles Federation to Stars)

35

224.6 4:45 pm returned to camp site.  
FED. CAMP. KUAHUA

At ~ 5:30 we went out to look for turtles feeding close to shore.

One small seen at first site near camp, but not off the wood debris point.

Continued down to beachrock feeding area. 6 pm - no turtles seen at yesterday's site of 4. However, slightly further down along beach rock we saw 1-2, slightly further out (20'). Watched for awhile, then returned to original site.

Photo of area. Two turtles captured by walking out and falling down to grab them. First (big) one pulled me out aways before I could get its front flippers up out of the water. Second small one was much more of a fighter.

Previously when we departed for Keonuku a Filipino woman, Josephine, mentioned turtle by her fishing line by beachrock between our camp and Federation camp. Tim Brazner (SP?) said he had seen turtles here feeding right close to shore.

Federation Camp was started with wood from a wooden ship that grounded ~ 1952.

Ferro-concrete vessel wrecked in early 1960's(?)  
Awahua wreck? year. Some died from jumping off?

Stony An  
Hondolulu?



11 JULY 85

THURSDAY

~ 6:30pm 1830

Jumped close to shore while feeding near  
beachrock; Shipwreck beach. - just a few inches of  
water over carapace.

C- 72.5 x 66.0

PL (with tape) - 59.0

8516 Rhind

8517 RFL

notching (missing piece) in webbing  
of right front flipper.

8518 LFL

No skin barnacles noted.  
Mild red skin algae.  
Carapace has dark (blackish) appearance.

Mouth held open and pieces of algae picked  
out - material being grazed when I grabbed  
~~ulva~~ and fine filaments.

Robert took 2 photos of me holding the turtle.

A few  
pink coralline spots on carapace - but  
bleached white.

#8516 Lanai, mouth ✓

Acanthophora spicifera

90%

Hypnea musciformis (?)

5

Ulva fasciata

5



11 July 85  
Thursday  
~ 6:30pm

37

Jumped on at nearshore beachrock -  
Shipwreck beach.

8514 RFL C - 47.0 x 43.7

8515 LFL PL (with tape) - 37.5

- Dense mat of deep red skin algae
- Pink coralline spots on surface
- Moderately bright colored surface - (yellow infusions)
- Mouth opened and some small algae pieces taken out. Ulva & small filaments.

#8514 Lanai, mouth

90%  
10  
Trace  
Trace

Acanthophora spicifera  
Hypnea musciformis (?)  
Griffithsia sp.  
Ulva fasciata

Acanthophora seen in beachrock "pocks".

Also bright fire green strands  
on smooth intertidal of beachrock



Lanai Federation #2 7-12-85  
Intertidal limestone bench

Enteromorpha tubulosa

Question - Can turtles eyes focus on what  
they are grazing right up close?  
Or is smell used?



Check - "Beaches of Miami County"  
for Polihua listing + others  
on land

### Some Conclusions:

1.) Shipwreck Beach study offshore would need to be done during a period of calm <sup>(ONCE)</sup> South wind - in order to dive outside the reef. Same situation for TURTLE TOWN, to the south, described on map by Steve Young - Cabair Dive Shop (SEE MAP to determine locations).

Deep channel in reef by White Stone a possible site to go in and out of to dive outer ledge

2.) Use turtle net in areas where we grabbed the 2 turtles.  
Channel that Robt. A. showed me



12 JULY 85  
FRIDAY

39

UP 6:30 AM - Tim Brazner drove by to throw net - Spoke with him at airport - maintenance worker at airport. Packed up camp after breakfast and drove into town (8.7 miles - all asphalt-paved road). Drove to airport and unloaded all bags.

Prior to leaving Federation Camps, we stopped by the beachrock just before our campsite. Uva (appears to be crossed) and fine green V. (sampled) growing along here. At high tide this should be entirely accessible for foraging. Tim mentioned seeing turtles close to shore here. Josephine said turtles "scared away" the fish when she fished here.

Drove to Kramolayan harbor to see Robert Amoral. Lots of pineapple loading being conducted. Robert dives with scuba tanks along. Cousin sends tanks on barge. He only sees a few small turtles around the harbor.

Stopped at landfill and looked over all the old junked cars. Several 1950's. Found 59 Chevy 4-door and got several stainless steel moldings + hood ornament. At harbor, noted 2 marine corps vehicles on Dole "Isleways" barge. Reportedly



12 JULY 85  
FRIDAY

they set up a radar unit on the south shore for involvement in laser (Star Wars) experiment from Haleakala.

Glenn Oshiro of Oshiro Service State (jeep rental) has fished at Polihua most of his life. Never saw evidence of nesting. Reports that 20-40 yards of beach may be lost during the winter. During some years it may be all washed out - beachrock exposed underneath. He said that turtles have definitely increased from "Federation Camp to Polihua". Hurricane "EVA" tore out all sorts of kawe at Polihua. That's why there are tree stumps on the beach now.

Depart on Royal Hawaiian Air Service  
12:20 pm. Picked up by  
Mark Webber.

Caretakes at Stoi's property  
Bob LeGoff  
Terry Kahaliani Tel. Maui 871-0181



22 samples  
(5 LANAI - 17 Molokai)

ALGAE SAMPLES SENT TO DENNIS RUSSELL  
ON 7-22-85 from G. BACAZZ

SAMPLE ID	DATE	SOURCE/LOCATION
8514	-	UVA & red filamentous - LANAI
8516	-	MOUTH CONTENTS - LANAI
"SHIPWRECK"	7-11-85	Acari, UVA & red filamentous UVA & red filaments
"FEDERATION"	7-11-85	INTERTIDAL LIMESTONE BEACH-LANAI 3 juveniles seen feeding
"FEDERATION 2"	7-12-85	REEF FLAT - LANAI + SPYRID (?) Diatoms "Josephine" site in same vial (?)
		INTERTIDAL Limestone Beach - LANAI



### HAWAII VISITORS BUREAU WARRIOR MARKERS

1. Cavendish Golf Course – 9 holes open to public.
2. Luahiwa Petroglyphs – one of best preserved and most concentrated displays.
3. Palawai (site of Mormon Colony 1861) – crater of Lanai's extinct volcano as recorded by Walter Murray Gibson, Mormon Church colonizer until 1864.
4. Hulopoe Bay (Manele Beach) – safe swimming, good lee-shore camping, small boat harbor nearby.
5. Kaunolu Village – ruins of pre-discovery Hawaiian town; favorite fishing spot of Kamehameha the Great.
6. Koele – Old ranch and picnic area.
7. Molokai Island – viewed to the North across the Kalohi Channel. Kukui trees outline the lee-shore valleys.
8. Hookio (Fortified Ridge) – notches man-made, used by warriors in battle against King of Hawaii.
9. Lanaihale (summit el. 3,370 ft.) – all islands, except Kauai and Niihau, visible from here on clear day.
10. Maui Island – West Maui Mts. in foreground nearly 6,000 ft.; Haleakala at distance 10,025 ft.
11. Molokini Islet – uninhabited dot between Maui and Kahoolawe.
12. Kahoolawe Island – home of goats, former ranch now used as Navy bomb target.
13. Hawaii (Mountains of Mauna Kea and Mauna Loa) – both over 13,000 ft., one on the right still erupts.
14. To Lanaihale – shorter route to island's top.
15. Naha Trail (1850) – paved by ancient Hawaiians.
16. Shipwreck Beach – beachcomber's paradise, driftwood-littered 8-mile beach, a good fishing spot.
17. Keomuku Village – ghost town and site of Maunalei Sugar Co. until 1901. Sugar failed when sweet water turned brackish and salty.
18. Kahea Keiau – sugar company failed, they say, because stones from here were used for railroad roadbed.
19. Garden of the Gods – weird rock forms that change color with setting sun.
20. Polihua Beach – good picnic, view spot rewards a rough road trip.



11 miles to  
Anahulu

9 miles to  
Molokai





## Stomach contents, Waiopae, Lanai 4-28-1985

<u>Acanthophora spicifera</u>	Found dead washed ashore S-38.9	99%
<u>Codium edule</u>		1%
<u>Codium arabicum</u>		Trace
<u>Chondrococcus hornemannii</u>		Trace

## Stomach contents, Halepalaoa, Lanai, 4 May 1985

Filefish bones	Died shortly after being found dead washed ashore S-38.9	99%
<u>Amansia glomerata</u>		1%
<u>Acanthophora spicifera</u>		Trace

## Intestinal contents, Halepalaoa, Lanai, 4 May 1985 I

<u>Amansia glomerata</u>	S-38.9	99%
<u>Codium edule</u>		1%
<u>Acanthophora spicifera</u>		Trace
<u>Dictyosphaeria versluysii</u>		Trace

Fishbones

TWO  
HAND CAPTURES WITH SCUBA

Sample No. 7260 Lanai ✓ 7259	5-4-85	
<u>Amansia glomerata</u>	S-52.1	99%
<u>Jania capillacea</u>		Trace
<u>Acanthophora spicifera</u>		Trace
<u>Ceramium sp.</u>		Trace

Sample No. 7267-Lanai 5-6-1985 ✓  
69

<u>Amansia glomerata</u>	S-65.8	99%
<u>Hypnea cervicornis</u>		Trace
<u>Jania capillacea</u>		Trace
<u>Sargassum polyphyllum</u>		Trace
Amphipods		Trace
Copepods		



4 MAY 1985  
SATURDAY

HALEPALOA LANDING 4  
KEDMUKU, LANAI

109

UP at 4:45am - breakfast at Betty's just 400  
Picked up boat at airport - checked for weight  
water, rougher - took a bus to beach area.  
Wind already blowing. Decided to go to Laniā  
Drove to Māhā I - Lunched <sup>LANAI</sup> and left at  
7:30am - grined off steep <sup>LANAI</sup> property at 8am.  
Two white markers for their chagel, blm  
trees have young quite high. Anchored just north  
for scrub. Entered - 8:30am. Extensive  
coverage of *Portia compressa* intermingled with  
others. Some sand patches in between.  
Anchor at ~25' we swam seaward -  
~25 meters gradual slope to 60+ where  
soul e-dal and sand/silt smooth bottom.  
starts. We followed this edge along, going  
with the current at a rapid <sup>intermittent</sup> rate.  
At a few places we swam toward shore  
following sand channels. Robert saw  
one turtle off in the distance above a  
coral mound. I would see it.  
Upon surfacing we found ourselves nearly  
in front of Stalls' property. Blew whistle  
and Alah motor to pick us up.

PORT GAS  
Purchased on  
Charge CARD.

SCUBA  
#3

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

UP 9:30am - 52 minutes - 60' <sup>anchoring</sup> Halepaoloa  
Motored to the north and anchored just  
before start of reef flat - age not at  
low tide. People walking out on it. For 10  
Snorkled for ~45 minutes. 2-3 small <sup>seen</sup>

110

4 MAY 85  
SATURDAY

seen prior to anchoring. 5 seen in the water -  
I saw one drifting. <sup>body</sup> birth with a  
school of *Planina*. Alah caught one  
5 seen <sup>5 seen</sup> <sup>5 seen</sup>. Another he got this hole on  
but it got away. This one was resting on top  
of *Portia*.

NO TUMORS -  
e term of  
this disease

PHOTO IN ZODIAC

ANW -  
Found 4/5 under ledge -  
no larger than *Portia*. up and under. - 20 deep.

7259 RFL S - 52.1 x 41.2  
notch - 5.19

7260 LFL C - 56.0 x 49.0

st. turtle - *Kemura*

hand -  
skin

PL - 41.1

HEAD - 7.8

TAIL - 10.0

RFF - 8.7

A few  
Skin bars, and red algae on skin.

Stomach flushed - partially preserved - appears  
to be *A. nana*. This was seen  
but covered with silt. Blown off  
when eaten?

For Dive ~~two~~ Robert and I were clipped  
off approx. off ~~lanai~~ <sup>present</sup> <sup>on reef flat</sup>.  
Stem & ribs - remains of *Portia*.

SCUBA  
#4

Sample No. 7260 Lanai V  
7359

*Amansia glomerata*

*Jania capillacea*

*Acanthophora spicifera*

*Ceramium* sp.

99%

Trace

Trace

Trace



4 MAY 85

Asparagopsis taxiformis seen frequently during Canal dives @ 30m.

111

Started at 12 noon duration - 45 min. - max. depth 50'. Current still strong - moved us right along. No turtles seen - but lots of fish & coral. Followed "chop" for much of the way, but also swam up 2 sand channels into 20' depth. Returned across channel to Mopha wharf arriving at 2:45 pm. Trainers back to Kahului airport - coffee at 3:15 to visit - P notes (68). Mass at 6 pm at Christ the King Church.

At 9:40 AM visited Lower Plant. One vehicle present - GMC bic. MHI 871. Two fishers on block #2 coating gut with med. vols. lime (+ bait?) - light weight. No turtles in clear discharge water. Watched for ~20 minutes. One large turtle seen sunbathing in peripheral turbid area. One fisher pocketed to pit and unwanted. Crabby decurred to right over (and in) clay and saw a large turtle above to rock in the "up-wid" up-to-water area. Surface and slope slowly, causing me to believe it had gas feeding.

7:30 pm Dinner at Tasty Crust. #600

5 MAY 85 5:15 pm. #315 TASTY CRUST Sunday Wind very light, so I decided to launch at

112 SUNDAY  
5 MAY 85

Swimming gear channel  
Kahului ramp. Motored out harbor entrance - noted Hypsea musiformis on rocks by ramp along with Ulva. Pterocladia growing on adjacent bays on west only side of harbor entrance. Photos taken.

Motored to off pier plant - shallow DATE of Harbor water noted. Took several photos of plant, discharge and algae (Pterocladia) and Ulva growing in sand above it. Motored over greenish "channel" - which is probably an area that dredge material was taken from. Anchored at the seaward end - a few narrow sand channels running seaward. Filled water at one of these and followed "edge" along to the left. Mostly 10' but some 15' depth. "Edge" of this area is distinct - more - therefore no undercut; edges for turtles to sleep under. Spud in the center, but along the edge there is harder material used which large quantities of Codium, Acanthophora, Agardhiaria. Also collected Scirra homodes (skin of spores).

Dictyosphaeria cavemosa seen up in shallow sand of reef flat. 13 Codium seen (adult, Pterocladia and arabicum). But adult was the most abundant. Along the way toward shore found a scotch from a small turtle (Colwell)

Scuba #5  
30 minutes AT 15'



SUNDAY

5 MAY 85  
Up, same up in the channel where it  
folded out, and noted substantially warmer  
water at the surface, even though we  
were away out from discharge flow.  
Thermometer reading - 27.5-28°C at the surface,  
24-24.5°C on the bottom. 24:50 also  
recorded throughout. We turned out our seaward -  
most point of exit. Shortly before leaving I  
the water, I saw one of the only holes I  
would consider usable for a nesting turtle.  
From 9:30 - 10:30 am we worked seaward  
and towards harbor for deep-offer,  
deeper areas where turtles might sleep.  
None detected because water was too "green".  
Will use depth finder and chart later.  
Wind started blowing - Days but  
not as strong as yesterday when it started before  
sunrise.

Detached  
pieces  
near beach.

phoned boat by hotel because tide too low  
for boat ramp. Found below cement ramp. Pulled  
boat out - 1:30 pm and returned it to airport.

6 pm telephoned to Rene Silva - He indicated that  
turtles have been shot at the lower part  
site. Taken for food. Also said that a  
month ago he saw 35-40 turtles "on top of a  
small, feeding right close to shore at KATHA's  
bay". First bay after Hoopika, Ironwood  
Houses by the road, old road below,  
Crawlover fence and go - 30'. Turtles used

114 Res. on Flight 33 4:12 pm May 10th Friday Depart  
SUNDAY  
5 MAY 85  
Creed airport van

to be nested here ~~was~~ before. He said  
Matiko always had a few turtles -  
but not great numbers.  
Dinner at Puga Hut \$6.00; Brood at 8:00  
Checked powerplant at 7:45 pm - Light  
wind, calm seas - no moon out yet.

HEND COUNTS

7:45 pm - 1	7:49 - 1	7:53 - 5
46 - 3	:50 - 0	7:54 - 1
47 - 1	:51 - 3	7:55 - 4
48 - 0	:52 - 1	

Low counts possibly due to presence of fishers earlier in  
evening; or disturbance from disturbed fishing previous  
evenings (fishers last night and me Thursday night).

KEOMUKU, HAWAII  
20° 51' N, 156° 50' W

6 MAY 85 UP at 4:30 am - breakfast at Toasty Coast #3.  
MONDAY  
Traveled to Capt. Nobes and Malak Wharf -  
photos of family at 7:45 am. To Jorai just  
off Keneke village palm trees - north of which are  
offshore - anchored in sand channel - 20'  
Some overcast - glassy seas. Excellent visibility  
Robert and I followed distinct narrow  
sand channel seaward, immediately saw  
several submerged sites with marks in  
silt/sand - to long indicative of turtle use.  
At 30' we found pre-silted a log -  
moon out before I could grab it and

Anchored  
we saw a  
single  
turtle  
the surface.

①

KATHA BAY, MAUI



All 3 turtles tried to bite like  
logs!

6 MAY 85  
MONDAY

Crashed into coral overhang - banging some  
off. Swam it back to a log in the boat.  
Wanted that commercial diver boat had anchored  
a short distance to the south of us -  
still in front of Kemohe palm trees.

We started to descend again and Robert noticed  
a turtle in the adjacent reef patch starting  
very cool edge, dark on it, but it swam off  
before we could catch it. Another one took  
off to the left in the surge area, returned to original  
position and continued seaward, 2 more came  
out from resting and we caught one and 3rd seen.

Knocked Robert's mask partly off - Swam me  
in circles. Alan worked it up. While

putting the turtle in the boat, we drifted more to  
the north (till current). Going down, we

caught a 3rd turtle. Took 3-4 more.  
More drifting to the north. One the original  
and should seaward, we saw a turtle

on the bottom between to low coral  
pieces resting on the bottom left flipper was  
over its back. I got right by it at 50'  
and dropped to it but 55', but it swam away  
fast. From 55' the bottom drops rapidly

to sand bottom. Changel ended at 60'.  
Followed capture of 3rd turtle, we swam to  
the north searching in a similar manner.  
No turtles seen. (Robert also saw one in  
the distance?). After coming aboard,

①  
①  
①

①  
③

Scuba  
#6

6 MAY 85  
MONDAY

DIVE #6 - 60' - 60 minutes  
(quick drop to 55' - most 35-45')

we worked along the reef to the north, nearly  
to the cutters on the back (2 marked  
divers?). Mary had charged swimming way  
offshore, but not well here.

TURTLE #1

7264

RIND

S- 62.3 x 48.7

width 61.9

7265 LFL

C- 66.0 x 59.5

7266 RFL

PL- 50.8

HEAD- 6.3

TAIL- 11.0

RFF- 9.7

2nd turtle

KEMUKU

left eye bit out & bleeding. Swims in surge; red skin on eye;  
small amount of pink outline.

No turtles seen at the surface. Glassy & clean.  
My total took to ground trees at surface  
& thought commercial diver boat had been.

Surface temperature of seawater - 25°C

DIVE #7 < 50' for 50 minutes. Current reversed  
now flowing south apparently due to tide.

(continued  
page 118)



118

H<sub>2</sub>S smell from?  
Smelled on steps.

POWER PLANT  
THERMOCOUNTS

7:47 - 7	7:53 - 4
48 - 2	54 - 3
49 - 3	55 - 3
50 - 10	56 - 4
51 - 5	57 - 4
52 - 5	

117

6 MAY 85  
MONDAY  
Lava field  
w/ corals?

WHAT CAUSES SAND CHANNELS?  
AERIALS OF LANAI?

NOTE!  
NO TORTISES LARGER THAN THIS ONE WERE SEEN!

TORTISE #2  
S-75.8 x 57.3  
no notch  
C-81.5 x 76.0

7261 RIND  
7262 RFL  
7263 LFL  
3rd turtle  
remains

Red alga on neck and pelvis, and biting.  
Scummy carapace - skin barns.  
Dark stains in mouth. Amphipods in mouth.  
Pink coating on PL & carapace. Small amount of pink juice same from mouth. white stuff and brown in zodiac.

TURTLE #3  
S-65.8 x 51.9  
notch-65.4

7267 RFL  
C-69.5 x 64.0

7268 LFL  
PL-52.7  
HEAD-9.5  
TAIL-13.5  
RFF-10.6

Sample No. 7267. Lanai 5-6-1985  
69

Amansia glomerata	99%
Hypnea cervicornis	Trace
Jania capillacea	Trace
Sargassum polyphyllum	Trace
Amphipods	
Copepods	

4th turtle  
KEMUKU  
sent to  
PENN'S  
RUSSELL

Red alga neck & pelvis  
Pinkish alga seams of carapace.  
Skin barns on tail & pelvis. Amphipods same out of mouth.  
I inserted stomach tube - plates taken. of thing pieces that look like Amansia and a patch of Chondrochis (?). N11

CAROL HEEM SAYS IT'S FROM  
ELSONS TOWER - possibly from ment.

Light wind - heavy clouds  
"pool" slightly to the  
right.

(CONTINUED FROM P. 116 NARRATIVE)  
Followed along 50' "Drip" seeping to the  
seaward and watching for sand channels  
to inspect toward kiosk. None found of  
any discreet nature. Mostly complete sand  
paves with no breaks. No turtles seen.  
Toward end of dive, we moved in to  
shallower water. Close to wave break.  
Within 50' of wave break, we saw  
A found abundant amounts of Amansia  
growing on the sides of layers of drift  
floating plants, but absent of periphyton  
when periphyton forced out and when  
turtle, beat it?

Returned to Mahe wharf  
at 3:30 PM. Picked up bottles from  
New Zealand Sea Search - telephone USCG  
about our return.  
P284 INT, I believe - \$5.00



27 JUNE 90 Depart 8:10 pm ACOHAFLTB  
 Wed. 3 bags - IGLOO cooler, Military  
 Dive BAG (Big!) AND GRAY Samsonite suitcase.

Van to Maui Palms Hotel - overnight.  
 Breakfast at Shirley Cafe.  
 Picked up by Andrew \_\_\_\_\_ 6:50 am

Speaks Japanese.  
 TO Lahaina Harbor - Kaulana-Club  
 Lanai catamaran hull power boat

28 June  
 Thurs. hold 150 people. Met Duke Wilson -  
 former turtle fisherman with Hancock.  
 Says they depleted the big turtles  
 off Pease Corps Training area on  
 Molokai. Depart for Lanai

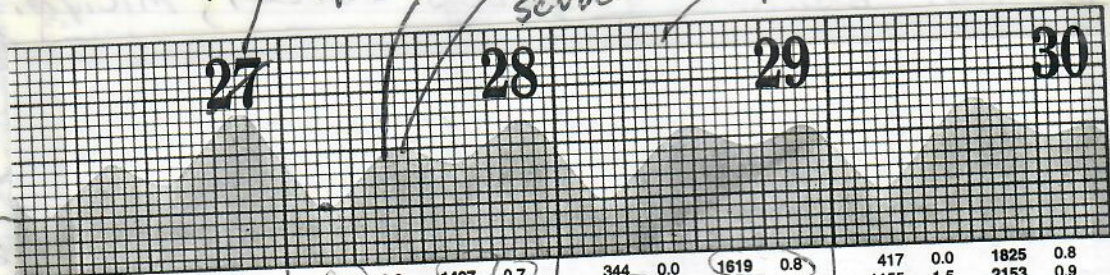
~ 7:40 am - arrive about 8:30 am.

Kaulana left pier on Lanai to  
 moon at Turtle Reef just a short  
 distance and to the north of pier.  
 "Sea Smoke" of Capt. Nemo's Lahaina  
 was just a short distance further  
 to the north. Cautionary warning given  
 about bothering turtles given by  
 tour guide. Snorkled with  
 Tira Xavier - 15-40 ft top seaward.  
 Saw only 1 small turtle underwater  
 although another was later seen  
 at the surface from the boat.  
 Snorkel = ~ 45 min.  
 Second trip out with Kaulana



JUNE 1990

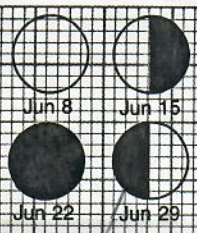
Wed. *Mini PALMS*  
 Thurs. *45 MIN snorkel*  
 Friday *10:15 snorkel at "PINNACLES"*  
 27 min. SCUBA



233	0.0	1307	0.5	309	0.0	1427	0.7	344	0.0	1619	0.8	417	0.0	1825	0.8
835	0.9	1950	1.7	948	1.0	2028	1.4	1057	1.2	2107	1.1	1155	1.5	2153	0.9

8:30pm high  
 2:27pm Low  
 high

6		12		6		6		12		6	
For tide times at following places, add or subtract from Honolulu time.											
PORTS						PORTS					
Hrs.		Mins.		Hrs.		Mins.		Hrs.		Mins.	
-1		46		-0		49		-1		48	
-0		32		-0		32		-0		14	
-1		36		-0		55		-0		59	
-1		35		-1		46		-0		24	
-1		16		-1		16		-0		24	
-1		15		-0		16		-0		16	



-0 14'



28 JUNE 90 at about 10:45 am  
 Thurs. far fewer people (ie ~15 vs 100+)

Some fish-feeding seen of "black" fish.  
 Scuba w/xaver ~45 feet, MAX.  
 27min mainly seaward.  
 Nothing seen until starting to return to boat & small turtles seen - brown self on shells, one swimming near bottom, the other motionless on the bottom. I approached motionless one and grabbed it easily. Took it back to the boat - returned to dock ~ 12 noon. Measured, tagged, photoed and released there.

( Y 910 RFL CL = 43.5  
 Z 85 LF CW = 38.5

Skin algae & barns.  
 Slight deformity to top of tail - bent at bend.



28 June Lunch with tourists - Boats left  
Thursday about 3pm.

Walked a short distance along the  
beach to the north.

Fried chicken in caretaker's house -  
Strong wind during the night -  
continuing to blow in the  
morning.

29 June 90 up ~ 6:30 AM - Squall over  
Friday (up to 30kt?) but no rain on Jarvis  
Main and Molokai - strong wind

Snorkel at "Pinnacle" site  
(KAWAII gulch?) after a  
30 minute ride in haulage Catamaran  
power boat. No turtles seen here  
Many other snorkel boats here  
too.

Just to the south of Club Jarvis pier  
I saw a small turtle standing on its  
head (feeding) both in the morning  
and after returning from "Pinnacle"

Depart Kahului 5:05 pm AZOLHA  
STANB



6/29/90

Saturday

Andrew — 55

Friday

Jue —

1. Short shallow net to use near dock
2. Snorkel inside reef with the current
3. Inflatable to use on calm days w/ scuba

Y911LFL

C59cm x 56.5cm

Y912RFL

Y913RH

Right shoulder had corroding fishhook with broken strands of stainless bleeder (had been cut??). Hook had eroded a large gaping hole - fluid present but no appearance of necrosis - but some foul smell present.

2300pm Above turtle caught by hand within 15' of shore muddy water < 2 feet deep - presumably feeding. Previously seen taking

TO THE  
North  
of  
Popoia  
Anchor  
out on  
reef  
flat

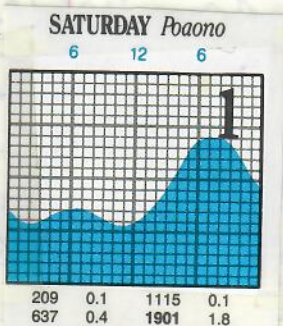
breathes at 5 to 7 minute intervals. Carried on my head, +, back along the beach close to dock, where I set it down and got my toy kit. Released at this spot. Lots of brown silt on surface.



Two green turtles, *Chelonia mydas*, examined and tagged near Halepalaoa Landing, Lanai, on 28-29 June 1990.

By G.H. Balazs  
Southwest Fisheries Center Honolulu Laboratory  
National Marine Fisheries Service, NOAA  
2570 Dole Street  
Honolulu, Hawaii 96822-2396

Tag No.	Curved carapace (cm)		Notations
	Length	Width	
Y910, Z85	43.5	38.5	Hand captured while on scuba at a depth of 40 feet seaward of Club Lanai's "Turtle Reef".
Y911, Y912, Y913	59.0	56.5	Hand captured within 10 meters of the shoreline in water 0.5 m deep. Large corroded fishhook found imbedded in right shoulder causing an open wound.



- Nitta Sign

Albert - Home 565-6448  
work - 565-6688  
wife = Julie  
Need

- ✓ - VHS tape for Albert
- Net for Shallows in front of the Lae
- Call Weitzel 661-05
- Glen OSTRO = 565-6952
- Hotel Lanai - 565-7211
- Tide chart -

1-800-624-8849 #1 322 / Twin



SATURDAY

31 MAY 91

TIDES

---

5:41 AM = 0.4'

10:36 AM 0.0

(6:25 PM) 1:25 = 1.9

FL 1301 5:30 am depart to LANAI  
 #2495 DAY ARRIVE 6:10 AM. G. OSITIRO pick-up  
 (TROPICAL) 7:15 am  
 SUZUKI ALBERT MORITA, DOCAFE LANAI, had  
 SAMMARI

Sent VHS video of 5-6 turtles  
 hauled out "basking" on reef near  
 "White Rock" <sup>Fedica Camp</sup> ~~Keomuku~~ side. shot 5/16/91  
 Trip's objective is to see this first  
 hand. Old time fishermen the spoke  
 to an Lanai said this was a  
 recent occurrence - never observed  
 before. This site is visible from the  
 dirt road.

Breakfast w/ ALBERT Morita in TOWN.  
 Mabel Hotel opened MAY 1, 91.

I followed Albert down newly paved  
 (blacktop) road to dirt road leading  
 to Keomuku. Turned left just ~~before~~ <sup>before</sup> "White Rock" mound (KA LAE)  
 and deadend at ocean w/ rocky  
 shallow point leading out. Sun  
 was low, so lots of glare  
 on water. Hard to see the spot  
 where Albert took his video.  
 Not yet exposed, tide still  
 going down. Definitely need 0 or  
 negative tide

9:30 am



June 1, 91 "Basking"  
 FIRST REPORTED - LANA'I - EARLY APRIL 1991

for top of coral head (limestone rock)  
 to be exposed for turtles to  
 haul out bare. Mike Coelho  
 arrived - mentioned again about  
 Rawlin's family seeing turtles bare  
 on coral heads along Paloa'u.

Albert put on boots and we both  
 walked out to site. Green hole  
 adjacent to site.

all  
 50-70  
 cm

→ No turtles seen at this time, so  
 we drove to White Rock vantage  
 point and used binoculars to  
 view 1, then 2, then up to 5  
 turtles out on another coral head  
 3/4 way to reef edge. Green hole  
 adjacent to it has no channel  
 for escape seaward. Several photos  
 taken. Rocks of turtles flash with  
 sun glare, making them very  
 noticeable if looking in that direction.  
 Tide getting lower - noticed  
 several bare coral head areas.  
 Drove back to first site, then  
 walked out. 2-4 turtles seen  
 hauled out. But lots of  
 coming and going, not seemingly  
 due to our approach. Very



SAT  
June 1, 91

59

had to walk in my boots -  
Several photos. When we  
got within 20-30' there was  
only one turtle banded out. I  
alone tried to approach and grab it,  
but it "flew off" into the water.  
Noted that ballast rock is hard  
and smooth, not crumbly and  
coarse like surrounding areas  
we had to walk on up to it.

Returned to shore and drove back  
to White Rock beach front where  
wakeshift house/shelter is  
located. Recall that Robert Forsyth  
and I visited here in 1985.  
Albert and I snorkeled out to  
closest "green" area - 1-2 turtles seen  
on it. Saw 3-4 while  
walking out in shallow water. Caught  
one by grabbing it from behind.  
Mouth full of Acanthopora.

When snorkeling into green, perhaps  
6 turtles seen - 40-70 cm.  
Caught the one out on top of  
coral head. Saw silt covered  
rope and trawl webbing on the  
bottom. Also at several other  
sites nearby. are had coral



6-1-91  
SATURDAY

2/13/52  
6/27/79

Robert  
DALE  
AMAAC

growing over it.

Snoke  
11:00 am  
TO  
12:30 pm

Five coral next to ledge -  
partial coral here had smoothed  
effect - I believe this  
results from turtles touching the  
coral polyps. OTHER PLACES  
LIKE THIS SEEN in this area

26'  
deep  
max.

where turtles have been resting.  
In this green area, the turtles  
clearly realized they couldn't move  
sea ward to safety immediately.  
Hence, some swam in circles  
within the green hole.

Halophila blades spotted at the surface.  
Earlier, shallow reef seen to have  
Laurencia, Acanthopora, and possibly  
Spyridia

Possibly 10 different turtles seen in  
1<sup>st</sup> green hole.

Albert and I proceeded to outer green  
hole close to fringing reef, although  
there was no channel seen  
running through reef. Nearly all  
turtles seen here were along  
the northern edge (7-8' deep max.  
likely up to 20 different turtles  
seen along here. All moved off  
quickly - Spooked TO seaward.

2-3 Fecal pellets  
seen off white rock



LAEHI PT

KA CAE, LANAI

6/1/91  
SATURDAY

ALL HAND CAPTURES

GHB w/ALBERT MORITA - DOUGRE

TAG NO.CCLACTIVITY

VII, VII2

60 cm

foraging  
~~ACANTHOPHORA~~ IN  
MOUTH

6/1/91

VIII, VIII2

59 cm

HAULED OUT  
ON CORAL HEAD

IX

60 cm

RESTING UNDER  
LEDGE

X

61 cm

» »



1 JUNE 91 Couldn't get close enough to catch any of them. All ALERT

SATURDAY MOVED to green rocks and small holes to the immediate north. Several more turtles seen in here. All Alert.  
Found a short pole spear.

Swam back through the same areas (all or most turtles now gone).  
Came upon 2 shallow coral head - Albert and I saw a turtle "wedged" under each one - head in - almost at the same time. Both single tagged V15 and V16.

Proceeded back to shore, only one turtle noted in shallow reef-algae area. Soft mud here also.

Left Albert and drove to Club Charai. Saw Andrew.

System all charged now - \$21.50 RT boat trip, then concession pay-as-you-go. Snorkel tour also.

Skeleton of turtle seen by bike tourists at beach further along on 5/31/91. No one knew where tagged skeleton was stored by Patty.

one small turtle (40cm)  
seen w/in ear "crack" in compass. Healthy behavior.



1 June 91  
SAT

H812-  
H825

Drove back to Lanai City Cemetery  
Departed on 5:25 pm flight,  
arrive 6:10 pm, Honolulu.

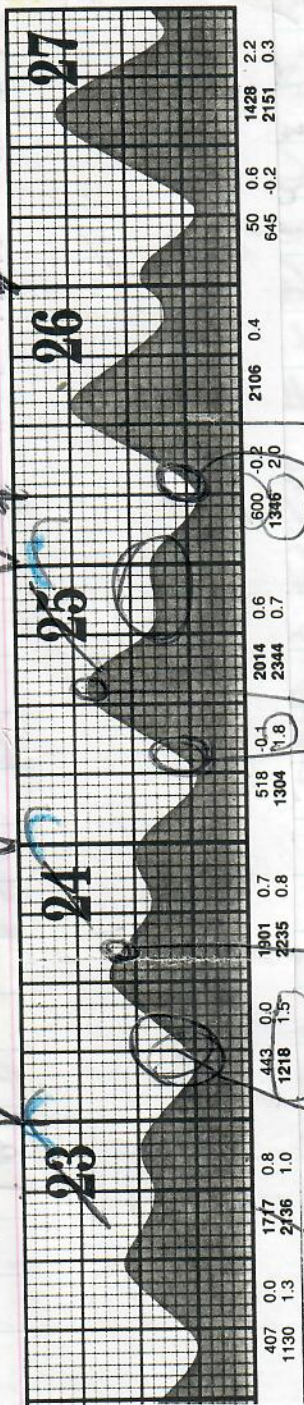
LAEHI

- 6/24/92 1. <sup>right</sup> REYE #1 CL=64.5 X 56 SCORE=1  
TMR H812 LFL H813 RFL  
H814 LH
- 6/24/92 2. CL=52.0 cm H815 RFL H816 LFL  
H817 LH
- 6/24/92 3. CL=48.0 cm H818 RFL H819 LFL
- 6/24/92 4. CL=64.5 cm H820 LFL H821 RFL
- 6/24/92 5. CL=52.5 H822 RFL H823 LFL  
TMR 1-#1 upper mouth SCORE=1  
RH 1/3 amputated
- 6/24/92 6. CL=59.0 H824 LFL  
H825 RH  
RFL Hooded slit  
LFL scale slough

(ALL OF THE ABOVE HAND/SNORKEL  
6/24/92 PHASE 1 DIVE - done on coral heads)



23-26 June 92  
 TUES. WED. THURS. FRIDAY



= 43 TOTAL





23 JUNE 92 DEPART 440pm Aloha jet  
 TUES, w/PM 2 - 8'x100' nets  
 + snorkel gear, Arrive 5pm.

Dollars (LANA City Service) Rental  
 \$109 + \$55 Chevy 4x4 wagon  
 Michael & B&B (\$50)

See  
 DATA  
 P.63

Drove direct to LAE HI - 6:30am  
 brisk trades - tide + 0.8.

No coral heads exposed.  
 At fisherman's shack shoreline just  
 2-3 turtles only seen. Several  
 fecal pellets in intertidal zone.  
 ATE GOOD DINNER AT BLUE GINGER RESTAURANT.

DIRT ROAD  
 TO LEFT  
 IMMEDIATELY  
 BEFORE WHITE  
 ROCK

24 JUNE 92. UP 5AM  
 - Wed Breakfast ~ 5:45 AM; 6:15 AM depart  
 for LAE HI (White Rock) arrive ~ 6:45 AM.

2 dives Snorkeled out to green hole  
 with 6/91 basking coral head - caught  
 one turtle. There saw (2 others). Proceeded  
 to catch and tag (on coral head)  
 turtles found resting on the bottom.  
 Saw perhaps 10/ for every 1 caught.  
 2 areas in particular had 10-20 turtles  
 clustered in a small green area.  
 None of turtles seen (but not caught)  
 had evidence of tumors.

Back up to safe for lunch. Then  
 to Federation Camp - Saw 4-6  
 (to p 67)

Brought  
 one turtle  
 ashore,  
 diving  
 break  
 between  
 dives.



6/24/92 MORNING DIVE - PHASE 2  
ALL HAND SNORKEL ON CORAL HEADS

	<u>CCL</u>	<u>RFL</u>	<u>LFL</u>	<u>RH</u>	<u>LH</u>
1.	70.0 cm	H849	H850	H848	-
2.	46.0	H846	H847	-	-
3.	51.5	H844RFL	H845	-	-
4.	NOT RECORDED (NOTE: IMMATURE - <del>55</del> 55 cm or less)	H842	H843	H841	-
5.	46.5 (Recapture same place 6/25 - News snorkel)	H839	H840	-	H838
6.	81.0	H836	H837	H835	-
7.	44.5	H833	H834	-	-

(See forms in other date book for  
2 beach seined turtles at Fed. Camp  
plus turtle brought ashore at LAEHI  
6/24/92 am)

H833 - H850

H851 -  
H859  
on full data  
pages.



TUES. 6/23 dinner \$10.50

WED. 6/24 Breakfast \$5.50

6/24 Lunch \$4.40

6/24 Supermarket \$5.05

6/24 Dinner - 15.50

Thurs. 6/25 LUNCH - 4.50

6/25 SUPERMARKET 5.80

6/25 DINNER 11.00

6/26 Lunch 7.50

6/24/92 turtles in shallows next to beachrock bench immediately to the west of last wooden house. Ran 8' x 100' net out from shore - but only caught 2, other left, probably from seeing us on shore. Photo of Russ w/ 2 turtles by Blyzer.

Returned to LAETHI for afternoon snorkel - 4pm - windy. Tide decreasing, probably +0.8 ft. Some turtles seen, but probably only 25% of morning. None captured. Water moderately cloudy. One or two turtles seen feeding close to shore, but <sup>not</sup> suitable for netting. Perhaps need the 50' net x 8' instead of 100 feet.

Dinner at Blue Ginger.  
70 1:70



Hand Snorkel - Tagged on coral heads  
off LAEHI 7am - 9:45am

6/25/92

	Curved length	RFL	LFL	RH	LH
1. Near BASKING coral head	59.0 cm	H832	H831	-	-
2.	66.0 cm	H830	H829	-	-
3.	62.0	H827	H828	-	-
		1-#1 tumor Right eye;		Right Hind PARTLY Amputated Healed	
4.	NOT RECORDED	H866	H826	-	-
5.	75.5	V403	V402	H867	-
	(Left eye has suspicious bump)				
	(Note: ALBERT MOREIRA TAGGED THIS TURTLE SAME SITE During 1/92 CCL=69.0cm)				
6.	50.0	H869	H868	-	-
7.	67.0	H870	H871	-	-
	(1/8 of Left Front Flipper Amputated - healed)				
8.	62.5	H860	H861	-	-
9.	56.0	H863	H862	-	-
10.	47.0	H865	H864	-	-
11.	47.5	H873	H872	-	-
12.	69.0	H875	H874	-	-
	Left front Flipper 3/4 Amputated - healed				
	Right Hind completely Amputated - healed				
	Healed scratches in carapace				

WBM



		<u>RFL</u>	<u>LFZ</u>		
13.	49.5	H882	H883	-	-
14.	52.0	H881	H880	-	-

( see form in other data book  
for turtle beaches served at Fed. Camp )



TAGS USED:

H826 - H829.

H830 - H832.

~~H833 - H834~~

H860 - H875

H880 - H883

H876 - H877; H879 (H878 NOT USED)  
on full data page

H885 - H900 See p. 73

H926 - H935

H936 -

H950

NOT USED -

STILL  
IN STOCK



25 June 92 up 5cm - Arrive at LA# H1 6:30am

Thursday Sorkel in all of same areas  
 ("basking" coral head hole [potholes or green spot])  
 plus 2 larger areas <sup>closer to reef</sup> that seem to  
 have "runways" (channels) leading out  
 through fringing reef.

In water for 2 hours 45 minutes; 14 turtles  
 captured, plus H240 (yesterday tagged)  
 recaptured. (plus among 14) V402 & V403  
 tagged, by A. Morita 1/92.

Today's morning sorkel also involved  
 swimming further toward NW - in  
 direction of other basking coral  
 heads LA# H1. Shallower green holes,  
 and fewer of them. 3-4 smaller turtles  
 caught, + 1 with amputated front  
 flipper.

in 11:30am Drove to Club Lani (reopened  
 "4 months ago") - Drove along beach -  
 "Larry" there (bike <sup>former</sup> owner) -  
 Steve his brother is manager.

Drove to Fed-Camp - was able  
 to beach seine, turtle - another  
 got under net. Same site as 6/24  
 Saw several small turtles  
 feeding close to other beach rock  
 adjacent along coast.



6/25/92 Tried a site near picnic table  
along at end of road - 3 turtles.  
But they all fled before we  
could surround with net.

Need 50' x 8' because floats compress.  
Drove back to LAETH. Watched  
for turtles close to shore to  
possibly beach seine. 2-3 seen,  
but not suitable for netting.

Algal composition along LAETH  
is mainly:

Acanthopora →

Lyingba  
Lyingba



Collected 4 fecal wash-ups at  
LAETH.  
Departed for town at 5pm.





~~6/26/92~~

6/26/92

CAEHL

ALL HAND SNORKEL

CCLRFLLFLLHRT

1. 68.0 cm H894 H895 H893  
 (Near "basking" coral head - photos w/ KISS)

2. 55.0 H896 H897 — —

3. 62.5 H899 H898 — —

4. 63.5 H900 H885(L3-4) — H885  
 (LFL HEALED NOTCH)

5. 82.0 H887 H886 H888 —  
 (NOT fully locked)

6. 74.0 H890 H889 — —

7. 61.5 H892 H891 — —

8. 62.5 H927 H926 — —

9. 43.5 H929 H928 — —

10. 67.5 H930 H931 — —

11. ~~75.5~~<sup>75.5</sup> H932 H933 — —

12. 57.0 H935 H934 — —  
 (1-#3 Tumor Left Head) Score = 2



H885 - H900  
H926 - H935

H901 - H925

NOT USED ON CANAL -  
PREVIOUSLY CHECKED OUT

73

6/26/92 Up at 445 - to LAETHI arrive at ~545  
Friday From top of white stone we could see  
eye turtle out on reef - emerged - but  
on fringing reef - not coral heads seen 6/19  
Drove to rocky point of LAETHI - no  
turtles emerged. Drove back to beach  
shock and proceeded snorkel - to first  
green hole (w/ basking coral head) - capture  
mode - photos taken with Nikonos of  
Ruggs holding turtle. Proceeded to  
other dark green rocks in reef -  
first channel had 10-15 again - were  
caught - too many swimming every  
where. Proceeded all  
the way to rocky point

6/26/92

630 AM = First BASKING head/green spot = 25.5°C

12 noon = " " " " 27°C

Nearshore - 1pm = 29°C

6/2/93 nearshore at 6:30am  
24.5°C



Turtle flown to oahu from Lanai '92

1-31-92 Lanai, died 2-7-92, small intestine (necropsy)

<u>Dictyosphaeria versluysii</u>	50%
<u>Codium arabicum</u>	40
<u>Acanthophora spicifera</u>	10
<u>Gelidiosis variabile</u>	Trace
<u>Lobophora variegata</u>	Trace

1-31-92 Lanai (Died 2-7-92) small intestine (necropsy)

Masses of white/green lumps with no identifiable algae present

Depart 5:45 PM  
Aloha  
6/26/92 Flight 921 via Maui - ARRIVE HONO 7 AM.



DREAMS COME TRUE  
on  
LĀNA'I

Bed & Breakfast  
House rentals with all amenities.  
Vehicle optional.

Michael and Susan Hunter  
808-565-6961

P.O. Box 525  
Lanai City, HI 96763



ID numbers of new tags attached and any old tags already present <sup>1</sup>		Species <sup>2</sup> and sex (if known)	Date and time	Place-name location (or latitude and longitude)	Activity of the turtle <sup>3</sup>	Curved carapace length <sup>4</sup>
Left front flipper	Right front flipper					
V-402	V-403	CM	HAND SPOOKED 1-4-92 1400	LAE HI, LANAI, HI	Resting in Sea	74 cm
V-404	V-405	CM	4-26-92 0945	AWEHI, LANAI, HI	INCIDENTAL CATCH IN GILL-NET	39 cm

<sup>1</sup>If old tags are present, please carefully record the ID number and the complete address inscription. Indicate if the tag is made of metal or plastic. Use the back of this form if more space is needed to provide details on each turtle handled. Two tags should be applied to all turtles handled.

<sup>2</sup>CM = *Chelonia mydas* (green turtle), EI = *Eretmochelys imbricata* (hawksbill), CC = *Caretta caretta* (loggerhead), LO = *Leidochelys olivacea* (olive ridley), DC = *Dermochelys coriacea* (leatherback), ND = *Natagor depressa* (Australian flatback).

<sup>3</sup>Activities include (for example) nesting on the beach, swimming or resting in the sea, injured or found sick, etc.

<sup>4</sup>Measured with a flexible tape along the curvature of the midline of the upper shell (carapace).

Name and address of person filling out this form:

Alees MOLA

P.O. Box 1

LANAI CITY, HI 96763

Return to: G. BALAZS  
HONOLULU LABORATORY  
BIOLOGICAL SERVICE CENTER



SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

6/1/93 LAEHI Beach net

PERSON RECORDING DATA:

OLD TAGS:

Empty boxes for old tags

NEW TAGS:

RFL

R903 ✓

LFL

R904 ✓

TUMOR SCORE

0

OTHER NEW TAGS:

R924 ✓ LH

R925 ✓ RH

STRAIGHT CARAPACE-LENGTH:

61.3

WIDTH:

46.8

NOTCH LENGTH:

61.1

CURVED CARAPACE LENGTH:

67.0

WIDTH:

59.5

HEAD WIDTH:

Empty box for head width

SEX: MALE, FEMALE OR UNDETERMINED

Empty box for sex

TAIL LENGTH: T

Empty box for tail length T

C

Empty box for tail length C

RIGHT FRONT FLIPPER WIDTH:

Empty box for flipper width

SAMPLES COLLECTED:

Empty box for samples collected

PLASTRON LENGTH:

48.9

WEIGHT:

Empty box for weight

Empty boxes for weight

DESCRIPTIVE REMARKS:

[6/2/93 Recapture (lost-Sinked)]

Possible impact from spear in 2nd central. no food in mouth.



## SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

6/2/93 Beachnet LAEHI, LANAI

PERSON RECORDING DATA:

OLD TAGS:


NEW TAGS: RFL

R970 ✓
R975 ✓

LFL

TUMOR  
SCORE

0

OTHER  
NEW  
TAGS:


STRAIGHT CARAPACE-LENGTH:

47.3

WIDTH:

-

NOTCH LENGTH:

47.0

CURVED CARAPACE LENGTH:

51.0

WIDTH:

41.5

HEAD WIDTH:

SEX: MALE, FEMALE OR  
UNDETERMINED

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

38.1

WEIGHT:

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DESCRIPTIVE REMARKS:

Right hind Semicircular  
healed injury - 1/3 missing.

No food in mouth





SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

6/2/93 LAEHI, LANAI Beach net

PERSON RECORDING DATA:

OLD TAGS:

[Empty boxes for old tags]

NEW TAGS:

RFL R968 ✓  
LFL R988 ✓

TUMOR SCORE

0

OTHER NEW TAGS:

RH - R989 ✓

STRAIGHT CARAPACE-LENGTH:

47.5

WIDTH:

36.6

NOTCH LENGTH:

47.2

CURVED CARAPACE LENGTH:

50.5

WIDTH:

44.0

HEAD WIDTH:

[Empty box]

SEX: MALE, FEMALE OR UNDETERMINED

[Empty box]

TAIL LENGTH:

T [Empty box]

C

[Empty box]

RIGHT FRONT FLIPPER WIDTH:

[Empty box]

SAMPLES COLLECTED:

[Empty box]

PLASTRON LENGTH:

37.6

WEIGHT:

[Empty box]

[Empty boxes for sample collection data]

DESCRIPTIVE REMARKS:

no food in mouth



SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

6/2/93	LAEHI, LANAI	Beach net
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PERSON RECORDING DATA:

OLD TAGS:


NEW TAGS: RFL

R990 ✓
R991 ✓

LFL

TUMOR SCORE

0
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OTHER NEW TAGS:

LH-R992 ✓
RH-R993 ✓

STRAIGHT CARAPACE-LENGTH:

55.5
------

WIDTH:

42.0
------

NOTCH LENGTH:

55.1
------

CURVED CARAPACE LENGTH:

60.0
------

WIDTH:

51.0
------

HEAD WIDTH:

--

SEX: MALE, FEMALE OR UNDETERMINED

--

TAIL LENGTH: T

--

C

--

RIGHT FRONT FLIPPER WIDTH:

--

SAMPLES COLLECTED:

PLASTRON LENGTH:

44.1
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WEIGHT:

--


DESCRIPTIVE REMARKS:

no food in mouth



SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

8/2/93	CAETH	Beach net
PERSON RECORDING DATA:		

OLD TAGS:


NEW TAGS: RFL

R994 ✓

LFL

R995 ✓

TUMOR  
SCORE

0

OTHER  
NEW  
TAGS:LH - R996 ✓  
RH R997 ✓

STRAIGHT CARAPACE-LENGTH:

62.5

WIDTH:

48.4

NOTCH LENGTH:

61.8

CURVED CARAPACE LENGTH:

67.0

WIDTH:

57.5

HEAD WIDTH:

SEX: MALE, FEMALE OR  
UNDETERMINED


TAIL LENGTH:

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

51.5

WEIGHT:

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DESCRIPTIVE REMARKS:

No food in mouth