1986 AND 1990-91
KAWELA-BELLOWS
NIU

G. BALAZS

- KAWELA BAY 1986
- NIU
- BELLOWS

GEORGE BALAZS
943-1221 395-6409

25 FEB 86 - KAWELA OBSERVATIONS ... p.9

20-21 FEBRUARY 1986 KAWELA BAY . . . p. 4 -
(1 CAPTURE 8851, 8852)

27 FEB 86 NIU STREAM . . . . . p. 13-15

28 FEB 86 KAHE PT. POWER PLANT . . . . . p. 17-19
(2 Released 8861-8864) (8868-69)

5-6 MARCH 86 BELLOWS NETTING . . . . . p. 20-21
(8865-67 - 1 Recapture)

28-29 MARCH 90 KAWELA p. 110-111

13-14 MARCH 90 KAWELA p. 112 (LIVE - Gillnet Release)

18 MARCH 91 KAWELA p. 26

TAG NO. < 8850 PREVIOUSLY SENT TO BILL POLETOA, MOLOKAI

1

JIM YARBOUGH - 293-9178
BOX 904
KAHUKU, HI 96731
TERRY WALKER - 293-5837

EISNER

-1 hr 36 min
Haleiwa

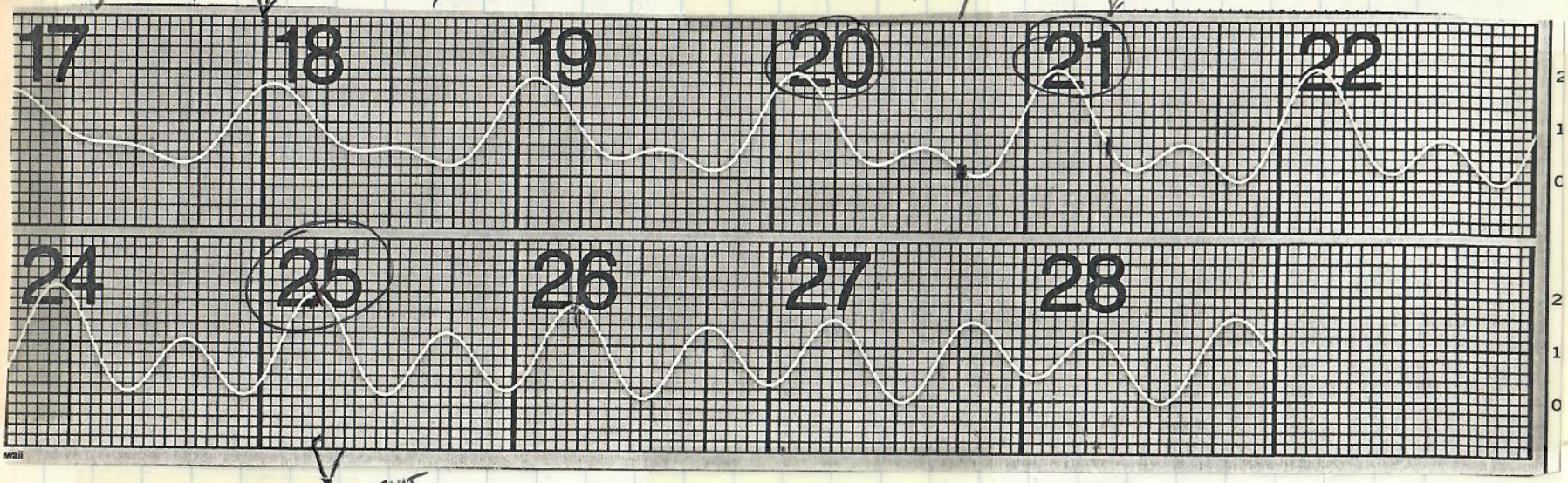
FEBRUARY
1986

14 HOURS

MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY

MIDNIGHT

6PM → 120x5' set W. side Kawela (I caught) Net out



6-7:45 am spotting (I seen westend only)

2-20-86 South wind, glassy seas, 6-8' surf

THURSDAY 2pm depart for Kawela Bay with Robert and Lew Consiglieri.

TOTAL TIME = 14 Hours

Westend - toward "river bed".
120' (2x60'x5') set at 5:30-pm 6pm. Swell last week was very large 25-30'.
Old snag of gill net pulled off the bottom. - 30' of it.
Net out at 7:45am.
I went in ~ 1/pm to untangle net from the bottom as tide came up.
Watched at 20' intervals throughout the night.
Lew felt certain that he saw a turtle inside west pocket. Saw turtle's back.
Many fish (mullet?) splash when spot-light is flashed.
Sunrise at about 6:15am. Net taken in at ~ 7:45am, at which time a turtle was found, probably very recently entangled. I had walked to the East end to "spot" for turtles in front of Terry's house. None seen - tide very low now - coral head showing in front of Terry's house. Talked to Norman Walker who said that not as many turtles have been seen lately.
At the west end, Robert said a few (2-3?) turtle were seen in the

2-21-86
Friday

"Channel" area outside of our netting site. Jim said turtles were seen around last week, when the N surf was much higher.

Yesterday ~~[illegible]~~ after the net was laid I snorkeled the area observing the bottom. Noted *Acanthopora*, but didn't seem as dense as last seen. However, no *Ulva rotundata* seen entangled. *Amansia* seen on emergent limestone rock. Stubby *Ulva fasciata* along shoreline - patches look to have been scoured off, which seems consist with the observation of sand built up around limestone rocks where we get into the water. High surf has scoured off lots of algae on the bottom? Water transport in Bay must be different, depending on the direction of the big surf.
Temperature - 22.5°C

Lifeguard at pipeline (?) that rooms with Jim said that he found just the front flipper of a turtle - believed to have been "torn off" by high surf.

8678-
8688
9/85
yearling at
SLP

< 8694 ?
found in plier
Where were others used?

Sunrise 7:15am

7

Caught 2-21-86
7:45 am -
Found just inside of
midpoint when picking
up the net.

8851 RFL S - 46.3 x 36.2
NOTCH 46.1

8852 LFL C 48.5 x 41.5

PL - 37.8

HEAD - 8.0

TAIL - 8.0

RFF - 8.3

Many Platylepas skin burns; patch of pink
coralline - carapace & plastron.
Almost no skin algae

- Stomach sample (double used) NEED SYRINGES
- Tried blood - TUBES EXPIRED.
- 10th right bone wedge - frozen

NO PHOTOS TAKEN.

TESTED 20 TUBES - ONLY 2 SOUNDED "LOUD" when
opened. 1 barely had any vacuum.
Most SOUNDED "WEAK".

2-21-86 FRIDAY Depart W. Kawela about 10am - Drove to Turtle Bay - noted fewers dogs and people around. Drove into vacant yard nearly at the end of the road. Limestone outcrop directly from here - toward the hotel is "Turtle Bay", to the left must be "WILD BEACH". Nothing that looked like Pterocladia red limu growing here, as per John Naughton. However, Sargassum present, plus possibly something reddish. Very rough water, strong currents. Seems impossible that a turtle could ever sleep here under these conditions.
Returned via Waiawa and Jack-in-the-Box.

2-23 Sunday Backnote - Yesterday 2-22 and last night there was huge surf on the north shore - worst in "11 years".

Where and how do turtles sleep under these conditions? How do they come up to breathe? Without getting swept away? Surface and sleep just outside the "break"? Seems reasonable for big, deep-diving turtles,

25 FEB
TUESDAY

not for juveniles (<65cm).

HIGH SURF WARNINGS UP.

25 FEB 86 TUESDAY Arrive Terry's house at 6 am with Cew C. I walked to the West pocket arriving at 6:20. Sat on grassy slope in front of house. Start of twilight when I arrived at 6:20 - at 6:30 can see my watch and writing on notepad. At 6:35 enough light so that turtle heads should be seen, if they are there. Eyes & binoculars scanning area but nothing seen until 7:05 (Sunrise apparent) one head surfaced seen in the area where the net is usually set. That's all - not seen again. Good visibility. Depart to East end at 7:10am & slow walk returning to Terry's house at 7:25. Cew didn't seen any turtles at east end. Tips of limestone here showing now. Several area photos taken. Weather report West wind 15 - 25 mph. Windy on Terry's side. Sheltered on East side. Depart Terry's at 7:40am. Drove to Turtle Bay (with beach) for a quick look. Rough & strong currents.

Kawela - Surf wash line all the way into Terry's yard.

25 FEB 86 IDEAS - Set out limestone boulders for algal habitat - like one at east end.
Beach algae - Turbinaria Sargassum and Dictyota (?) Nothing edible for turtles. "VERY VISIBLE MARINE ANIMALS"

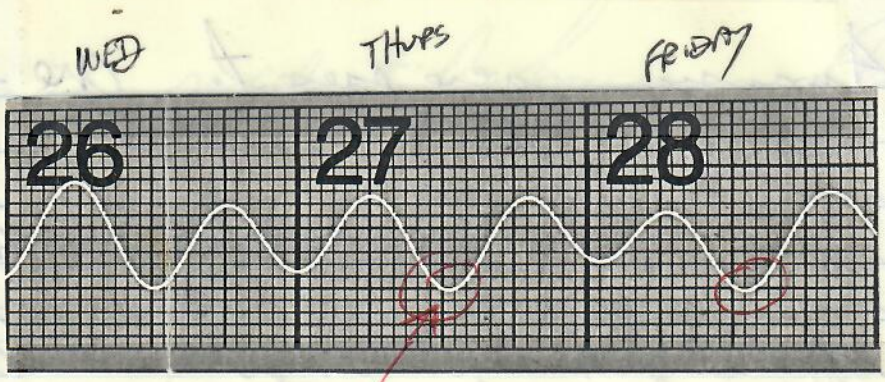
Conclusions: Few turtles coming into bay now, even though tide "high enough"
Explanations:
1) Food sources way down - broken off from waves - currents.
2) Too rough to get in and out for these big classes.
Sleeping (semi-hibernation) outside wave break.

Development needs "outreach" - to help and promote turtles in the area (note - Hotel's name!)

27 FEB
THURSDA
WEST
WIND

HANAUMA BAY
0-55

FEB 86



NIU "BLUE HOLE"

27 FEB 86 THURSDAY WEST WIND

Robert and I went to Niu Valley stream at ~ 11:30am. to examine "Blue Hole" reported by "Steven", Tel. 235-6602 149 HALEMAUMAU, HI 96821. When night diving there he saw 2 turtles, larger are believed to be a loggerhead in a "cave" on the Kokohead side of the hole. He was worried that they will get speared, as many people frequent here spear fishing. Robert and I walked out slightly to the left of the stream mouth. After a distance, the hole became visible just inside the reef line. When ~ 50 yards from it we snorkeled. Hole has a sand bottom with detached coralline algae heads in the center. Noted Lyngbia on the shallows going out, as well as Spyridia (?) and Acanthophora. In crevices at the hole, numberous patches of

2-27-86
Thursday

Anamsia were present. On the ocean side of hole, vertical relief was absent - mostly sloping rubble leading seaward. Steven said that "cave" was on the left side - we didn't see anything that fit his description.

Anamsia on head by seaward side was obviously grazed - marks on stand under fit too supporting this speculation. Presumably by turtles.

Leaving hole, we swam to the east to what looked like another blue area. Tide low now and reef exposed. Channels through here where wave action get through, as evidenced by schools of surgeon fish (kala-like).

Lots of Anamsia growing here - but no obvious signs of grazing seen like at the other spot.

Lots of coralline algae - mostly that Burgundy-red coating on small smooth rubble - 2 collected.

Offshore and slightly to the west I noted dive boat with red flag, and also ~4 surfers at what must surely be "TURTLES" dive site. Along coastline, noted mostly rock & cement sea walls

2-27-86
Thursday. fronting residential houses. Returned
7:45 pm.

2-28-86
FRIDAY

KAHE PT. HAWAIIAN ELECTRIC PLANT
CAUGHT IN INTAKE POND -
RELEASED NIU STREAM SAME DAY.

PL - 34.3
8863-LF SC 42.9 x 34.5 N-42.4
8864-RF CC - 44.7 x 41.0
T - 8.2
RFF - 6.9
H - 6.9

PL 29.4
8862-LF SC - 37.2 x 30.6 N-37.1
8861-RF CC - 39.0 x 36.0
T - 7.0
RFF - 6.8 (MODERATELY EMACIATE
H - 6.2

Letter in File

28 FEB 86 Visited Kahe Pt. Power plant
FRIDAY with Robert & Lew after Brenner
Munger called yesterday reporting "
sea turtles showing up in "foreford".
one died in the past few days.. ~40x50'
discarded into dumpster.
ENVIRON. Dept, Hawaiian Electric Co.
Box 2750, Honolulu 96840

Met Jim Peck, Don Fukuda and Keith
Oda from ENVIR. Dept.
Also Richard KEAWE - Superintendent at the plant.

4 small turtles swimming hard in the
current. Photos taken. Report
that yesterday a large one ~75 lbs.
was seen. Not seen today.
I leaped one two of them,
catching both. Lew tried and
missed, thereafter the two were
very skittish.
No algae seen, but lots of 1/2 beaks
and other fish. "Travelling screens"
filter water before it goes into plant.
A second "foreford" was also seen.
Much newer, hard turtles never seen
in here. Inspected intake grates
which were very rusted - vertical piece
seen missing. Base may not be

QUESTION: Waiau & Honolulu Harbor plants - INTAKES & DISCHARGES?

28 FEB86 FRIDAY

cement. Rock seawall of bay here has Ectocarpus - no other algae seen. Reported starting at Kahe Pt. (elevated limestone) lots of Pterocladia along there. Beach people used to set lots of nets off here. Reported that Hurricane Iwa "cleared out" lots of offshore areas providing caves/crabs - up to ocean depths of 40'.

Need to inspect intake grates at night with lights. Also Kahe Pt. at high tide at night.

Two turtles taken to Niu stream and released at about 2 pm.

Brought by DON FUKUDA & KEITH ODA TO NMFS LAB.

3/6/86 Thursday

S - 41.9 ×
NORTH - 41.5

8868 RFL

Cots of scum & pink coralline on its back.

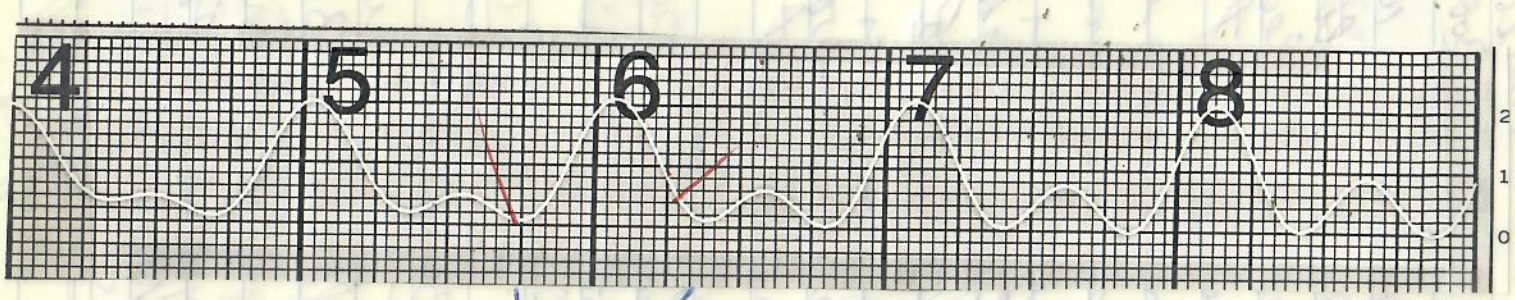
8869 LFL

Moderate encrustation - but fairly active.

Recovered 8/3 Waikiki - hole in plastron

MARCH 1986

TUES. WED. THURS. FRI. SAT



BELLOWS
SITE #1
JETTY
NETTING

ONLY A THIN SLIVER OF MOON.

WAIMANALO — 1:15

5 MARCH 86 BELLOWS NETTING SITE #1 JETTY
WEDNESDAY W/LEW & ROBERT

2" x 60' x 10-12' set out at jetty, same as in the past, at 5:30pm. Area had been roped off my AF security. Set tents on cement slab; drove van 3/4 way out. SW very light winds - glassy Waiawa Bay.
New weather tower being installed.
Lots of fleshy algae on jetty rocks, including ulva, Hypnea, Asparagopsis
only a sliver of moon.
3 1/2 hour watches starting at 8pm
Checked net every 20-30 minutes

TOTAL FISHING TIME = 14.5 HOURS

Calm, little wind, little swell all night. Lew saw a turtle at ~6 am into net, and woke me up in the tent. Sunrise ~6:45am
2-3 turtles seen surfacing outside net. I went out to get the turtle at 7:30am - turtle seen by John Naughton swimming seaward between jetty and inside end of net.
Net out ~ 8 am
Several tourists/vacationers - are said that in recent days a man fishing on the jetty had hooked a turtle. She would try to find out more.

BELLOWS

~ 6 AM CAPTURE - JETTY SIDE OF NET

6 MARCH 86
THURSDAY

S - 59.1 × 51.3 CL ~~63.5~~ ~~63.9~~
notch 58.3 CW ~~66~~

C - ~~51.3~~ 63.5 × 66.0

PL - 48.3

HEAD - 8.9

TAIL - 12.5

RFF - 9.0

[S Width] - 51.7
from bottom

14a 838

#52 Bellows Log

64 lbs

Bellows, live sampling, 3/6/86, #5988

Ulva fasciata	99%
Acanthophora spicifera	1
Spyridia filamentosa	Trace

→ Tags LFF 8865
RFF 8866 Right 1-2
LHF 8867

8.6 cm in 5 yrs 10 mon. (70 months) .123 cm/mo
- NO BLOOD obtained - TRIED with a SYRINGE FOR VIBRIO STUDY, BUT IT didn't work.
- Stomach obtained
- Photos - dorsal & ventral + net w/turtle in it.

5/14/80 SL - 50.5 cm 45 lbs

5/30/79 SL 47.0 cm 35 lbs

ORIGINALLY
3090
3091

86 8-28-86 Thursday - Kawela Bay
~11:45-12:45pm

Joy Connelly
PO Box 677 672
Haleiwa, Hi 96712

WDPLS= DOCARE HOTLINE + NOSC

Tel. 293-5579

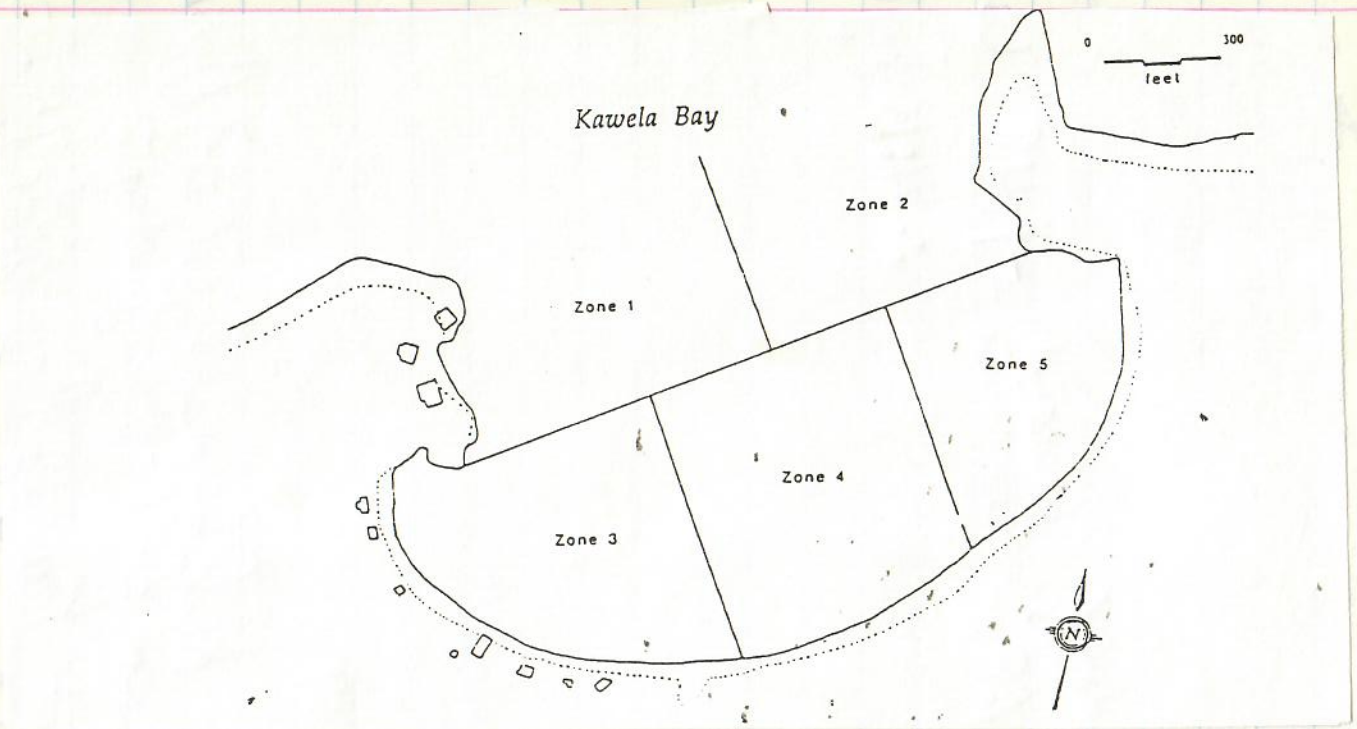
ED FARWELL 4/85

KAMMIE'S MARKET - Sunset beach
Turtles seen at surfing spot called "Kammies". - According to Joy.

Gate "737"
To Terry's new house 57329 Pohipahalua - Moved here in May. Series of photos taken of bay - of all house except one, down on east side. Plus some bulldozing on point. Terry heard of turtles seen it middle of day - (due to less activity along shoreline?)
Walked down "right of way". Picked up black mussels dried; noted small drifts of Acanthophora and green stringy (sample taken). Walked to cement based house. Picked up numerous and say numerous turtle fecal pellets - are fairly large diameter. Need to equate diameter w/ size from mortalities using material in large intestine. 3 feces collected. Joy has lived there 5 years. Know neighbor Gary Grahter who has set gill net in area of where we set turtle net. Recently caught 2 turtles, but alive and let go.

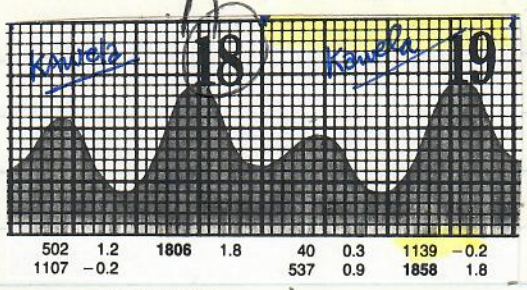
BIVALVE MOLLUCKS IDED BY BILL COOKE 9/2/86
ISOGNOMON CALIFORNICUM "PURSE SHELL OR TOOTH PENDEL SHELL"
FORMS DENSE COLONIES AT THE TIDELINE IN BRACKISH WATER.
ALSO GROWS SINGULARLY IN MARINE ENVIRONMENT. NO BILE - NOT PERMANENTLY ATTACHED.

A.K.A. BOOB = "


Kawela Bay
Zone 1
Zone 2
Zone 3
Zone 4
Zone 5
0
300
feet
N

MARCH 1991

4:30-7:30pm 200' net off Don Ho's



MONDAY

606pm = 1.8' KAWELA correction = -1:48 late

∴ 4:15 high

- line
- Anchors
- floats
- shackels
- spotlight
- hot chocolate

Elsner 293-5859

18 MARCH 91 Karl Bromwell, GHBA & Ross Miya
MONDAY w/ Steve Ball - Photographer -

Arrive at Kawela Bay - gate 7:42 - Strong winds, total overcast - showers. However, only a slight swell off Ho's property. Water reasonably clear. Very little algae seen

Surface seawater = 69°F
at depth = 70°F

3/18 along the hard substrate bottom where net was laid.
200' x 8' new netting (2 100' x 8' tied together.

3:30pm net set – up at 7:30pm (through high tide). No turtles seen anywhere – none caught.

Back to lab at 9:15pm.

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS:

TUMOR SCORE

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

3/14 TO MARTIN HALL IATTC
Sent 2 - pocket books + letter to PABLO
Locked TAG 9925
5-90cm LUANN Casey
PAINT photos 61-569 PALAKUHOA
Blue on Rocks 3/14/90 Haleiwa 96712 Tel. 637938
STRAND
3/14/90 wed Kawela Bay 30 hour hold
908 RFL S 39.1 x 33.9 BROUGHT TO LAB 3/13 TUES
N 38.4
908 LRL C- 42.0 X 40.0 gillnet
GATE "HB" Some whitish to ventral flippers. Submerged Rescued by Disney
photos/VIDEO
No Algae or other growth
Released 3/14/90 Wed. Kawela
color book
Bokkay letter
cards McGuire
Dr. Eugene (April) Ambard sent
P.O. Box 856
Haleiwa, HI 96712
(293-8790)

Need PLASTIC FLOWER
P/Jatic on Pipe Fields
"JOE and the Volcano"
Russ/photocopy TM 36

Home
Carlson
924-7390
RE: Tiger in lagoons and netting for them.

~~Hornet~~

OLD TAGS: RFL

LFL

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH:

WIDTH:

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	Total	Remarks
EYES						
MOUTH						
NECK						
FRONT FLPR'S						
HIND FLPR'S						
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
Total						

OTHER INFORMATION:

Approximate Tumor Size Categories:
#1 = detectable patch to 1cm diameter. #2 = >1cm to 4cm.
#3 = >4cm to 10cm. #4 = >10cm.

HO ENTERPRISES, LTD.

FAX TRANSMITTAL

DATE: 2/25/91

TO: GEORGE BALAZS

COMPANY

ADDRESS

TELEPHONE

FAX NUMBER: 942 2062

TIME: 11:00AM

FROM: HAUMEA

COMPANY: HO ENTERPRISES, LTD.

2005 KALIA ROAD

HONOLULU, HAWAII 96815

TELEPHONE: (808) 923-3981

FAXLINE: (808) 923-4718

NUMBER OF PAGES SENDING (INCLUDING COVER SHEET)): 1

PLEASE CALL SENDER IF YOU DO NOT RECIEVE ALL PAGES.

COMMENTS: GEORGE THIS FAX IS TO INFORM YOU THAT MR HO SAID NO PROBLEM FOR YOU TO USE HIS KENELA BAY PROPERTY. SORRY IT TOOK SO LONG TO GET BACK TO YOU.

Ha

2005 Kalia Road * Honolulu * Hawaii * Phone (808) 923-3981

HO ENTERPRISES, LTD.

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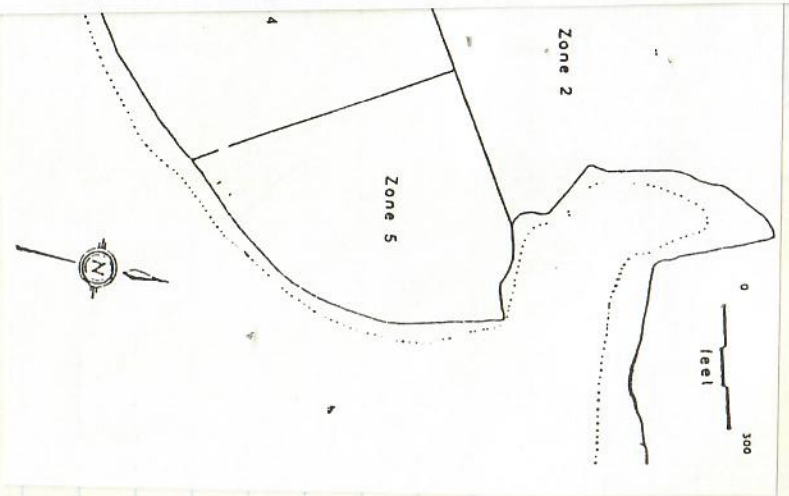
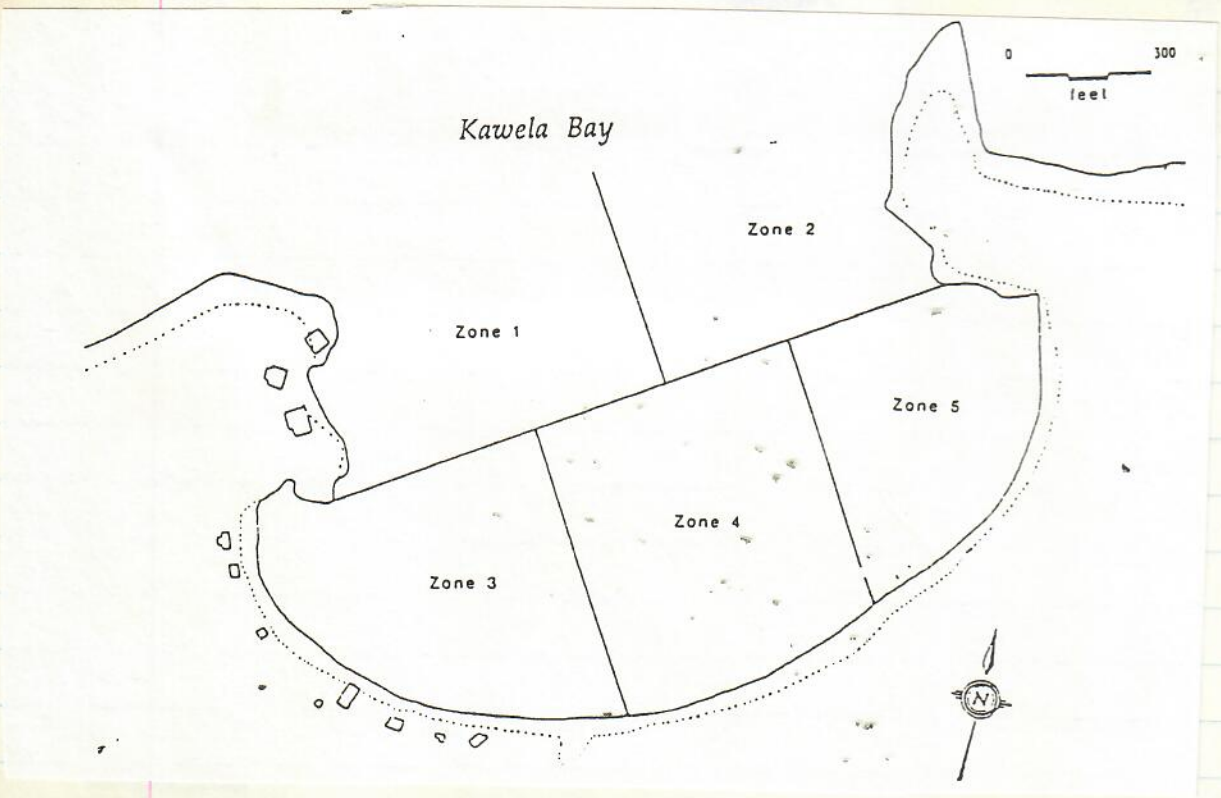
2005 Kalia Road * Honolulu * Hawaii * Phone (808) 923-3981




Kawela Bay
0
300
feet
Zone 1
Zone 2
Zone 3
Zone 4
Zone 5
N

Summary of green turtle netting at Kawela Bay[a], Oahu

by
George H. Balazs
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822-2396

Study date	Net length (m)	Hours of netting	Netting efforts (meter-hrs)	No. turtles captured	Catch per unit effort
26-28 Mar 85	60	40	2,400	19	.008
15-16 Apr 85	36	15	540	6[b]	.011
27-28 Jun 85	36	12	432	5	.012
2-3 Jul 85	36	12	432	6[c]	.011
20-21 Feb 86	36	14	504	1	.002
28-29 Mar 90	42	8	336	1	.003
			Total	38	

Total no. of turtles--35

[a]All netting conducted off Don Ho's property at the northwestern side of the bay where conditions are acceptable.

[b]Includes one recapture.

[c]Includes 2 recaptures, 1 of which had already been recaptured on 15 April 1985.

GEORGE H. BALAZS
ZOOLOGIST
MARINE MAMMALS AND
ENDANGERED SPECIES PROGRAM

MEMBER, IUCN MARINE TURTLE SPECIALIST GROUP

NATIONAL MARINE FISHERIES SERVICE
P.O. BOX 3830 • 2570 DOLE ST.
HONOLULU, HAWAII 96812

TELEPHONE
(808) 943-1221
(808) 395-6409

METRIC SYSTEM WITH U.S. EQUIVALENTS

METRIC UNIT (1)		U.S. EQUIVALENT	
LENGTH			
millimeter	(mm)	0.04	inches
centimeter	(cm)	0.39	inches
decimeter	(dm)	3.94	inches
meter	(m)	39.37	inches
decameter	(Dm)	32.81	feet
hectometer	(hm)	109.36	yards
kilometer	(km)	0.62	miles
myriameter		6.2	miles
AREA			
square centimeter	(cm^2)	0.155	sq. inches
square meter	(m^2)	1.196	sq. yards
are	(a)	119.60	sq. yards
hectare	(ha)	2.47	acres
sq. kilometer	(km^2)	0.3861	sq. miles
WEIGHT			
milligram	(mg)	0.015	grains
centigram	(cg)	0.154	grains
decigram	(dg)	1.543	grains
gram	(g)	0.035	ounces
decagram	(Dg)	0.353	ounces
hectogram	(hg)	3.527	ounces
kilogram	(kg)	2.2046	pounds
quintal		220.46	pounds
metric ton		1.1	tons

METRIC UNIT (1)		U.S. EQUIVALENT	
VOLUME			
cubic centimeter	(cm^3)	0.061	cubic inches
cubic decimeter	(dm^3)	0.0353	cubic feet
cubic meter	(m^3)	1.31	cubic yards
cubic decameter	(Dm^3)	13.10	cubic yards
CAPACITY, CUBIC			
milliliter	(ml)	0.06	cubic inches
centiliter	(cl)	0.6	cubic inches
deciliter	(dl)	6.1	cubic inches
liter	(l)	61.02	cubic inches
decaliter	(Dl)	0.35	cubic feet
hectoliter	(hl)	3.53	cubic feet
kiloliter		1.31	cubic yards
CAPACITY, DRY			
deciliter	(dl)	0.18	pints
liter	(l)	0.908	quarts
decaliter	(Dl)	1.14	pecks
hectoliter	(h)	2.84	bushels
CAPACITY, LIQUID			
milliliter		0.27	fluidrams
centiliter		0.338	fluidounces
deciliter		0.21	pints
liter		1.057	quarts
decaliter		2.64	gallons