

BIG ISLAND
PUNALUU

1989-1990

BALAZS

992-A Awaawanoa Place
Honolulu, Hawaii 96825

2 OF 2

7-18-90 ^{pm} RICHARDSON'S

PLASTRON: 47.8

Released across
the street

NEW TAGS: N390 = LFL

BLUE TAG 2196 = RFL (2S) UPSIDE-DOWN

HEAD: 9.2

RFL: 10.4

#3 TAIL. 2-#2 LH #1-3 Hind

#2-2 ventral FF. 1/4 ^{TURTLE} BARNACLES
ON BACK

CURVED CARAPACE: L: 62.5

W: 57.0

STRAIGHT CARAPACE: L: 59.6

W: 46.7

Apean?

NOTCH: 59.4

↓ #1 central scale of head

#3 Right Dorsal neck

#3 Left ventral FF

#2 L eye

#1 Right eye

Throat TMPS

#13

A. I. GRANT, GHB

Twelve green turtles hand captured and tagged
at Punaluu Bay, Kau, Hawaii
on July 18, 1990

by
George Balazs, Walter Dudley, and Leon Hallacher
Southwest Fisheries Center Honolulu Laboratory
National Marine Fisheries Service, NOAA
2570 Dole Street
Honolulu, Hawaii 96822-2396

Tag no.	Straight carapace (cm)			Curved carapace (cm)	
	Length	Notch	Width	Length	Width
N378, N379 N380(RH)	71.0	70.5	58.2	76.0	69.5
N381, N382	55.4	55.2	43.6	59.5	52.5
*8920, 8921 Y655(RH)	57.0	57.0	44.3	61.0	53.0
*6714, 6715, 6716, 6717	78.9	78.6	60.8	85.0	77.0
*Y643, Y644 Y645	70.0	69.5	56.4	75.5	71.0
*Y653, Z2	65.8	65.6	53.3	70.0	67.0
N383, N384, N385	71.9	71.7	57.4	77.5	73.0
N386, N387	67.0	66.7	52.2	72.0	64.0
*7604, 7605, Y654	71.9	71.9	57.5	76.5	72.0
*7622, 7623	67.8	67.6	51.4	72.5	66.0
*Y176, Y177, Y178, Y179	75.9	75.5	61.8	80.0	77.0
N388, N389	69.5	--	54.1	74.0	68.0
(small fibropapilloma present in the dorsal corner of the left eye. Photo by <u>Carl Lawrence.</u>)					

*7 of the 12 turtles (58%) captured were tag resightings.
Seawater temperature - Nearshore 22°C
Offshore 25°C

#13

Seven tagged green turtles resighted
at Punaluu Bay, Kau, Hawaii, on 18 July 1990

by
George H. Balazs, Walter Dudley, and Leon Hallacher
National Marine Fisheries Service, Honolulu Laboratory
2750 Dole Street
Honolulu, HI 96822-2396

(Dates recovered)

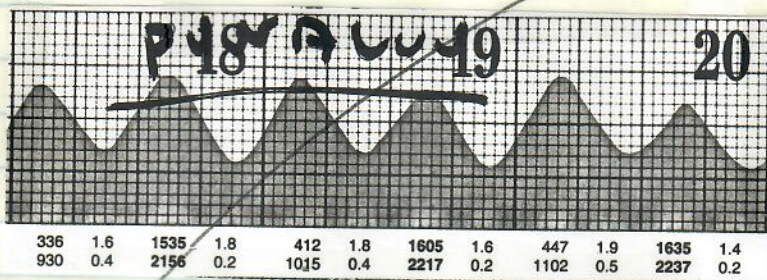
Tag loss

Tag no.	Date orig. tagged	Interval (year)	Straight length (cm)		Curved length (cm)	
			original	7/90 and (increase)	original	7/90 and increase
8920, 8921, Y655	3/22/88 (4/9/90)	2.3	47.6	57.0 (9.4)	53.0	61.0 (8.0)
6714-17	11/26/83 (3/26/84)	6.5	71.1	78.9 (7.8)	--	85.0 (--)
Y643-45	4/9/90	0.25	69.8	70.0 (0.2)	75.0	75.5 (0.5)
Y653, Z2	4/10/90	0.25	65.2	65.8 (0.6)	70.0	70.0 (0)
7604, 7605, Y654	1/10/84 (4/9/90)	6.5	48.4	71.9 (23.5)	53.3	76.5 (23.2)
7622, 7623	2/17/84	6.4	47.7	67.8 (20.1)	50.2	72.5 (22.3)
Y176-79	4/10/89	1.25	74.4	75.9 (1.5)	79.0	80.0 (1.0)

* NOTE 4 of the above 7 showed greater SCL than CCL

Punaluu Beach Park closed
by Civil Defense -
cancelled to storm waves from Hurricane
Marie

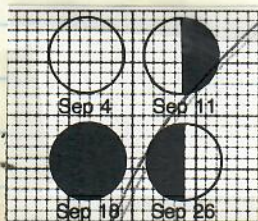
(never
happened
though)



11/27-11/28/90

Needs -

- Carl Lawrence photo of TMR Turtle
- Mike Chitlers video (in my office)
- Turtle sign on C&C sign by gift shop.
- Turtle (spaced) in pavillion
- Mail to Howard ^{write} Ray Helbig
- post card - Herb Kane
- Bengay - "false nesting turtle" - hawkbill
He saw drag-away tracks.
- Add my mailing address to hand-out / ^{more} handouts
- Ralph - send magazine; mention preservation at Turtle Bay
- Modify tagging form - exclude M or F
- * - JOHN - OAHU Photos include 4th block for old tag
- TAG INSTRUCTIONS TO CONY



For use only at following ports, see pt. number from monthly time

PORTS	No. Mins.		PORTS	No. Mins.	
	1	2		1	2
HANALEI BAY, KAUAI	1	40	KAUNAKAKAI, MOLOKAI	1	50
HAWAII BAY, KAUAI	0	30	KAHULUI, MAUI	1	40
PORT AILHEA, KAUAI	0	30	KIHEI, HAWAII BAY	1	40
HALEIWA, OAHU	1	30	MAUI	1	40
MAUNA ALOHA BAY, OAHU	0	30			
KANEHE BAY, OAHU	1	30	HILO, HAWAII	0	30
LAKE OAHU	1	30	HONOLULU, HAWAII	0	30
WAIANAE, OAHU	0	30	MAHUKOHA, HAWAII	0	30
WAIMANALO, OAHU	1	15	KEANAKOIA BAY, HAWAII	0	15

NOTE - Blue TAGS more LIABLE TO Hang-up in net

Study dates	Method of capture	Total no. captured	No. newly tagged	No. tag Resightings	Total no. tagged to date	Original tag dates for turtles Resighted at Punaluu
3/23-3/25/87	N	7	5	2	102	3/87; 3/87
3/21-3/23/88	N	3	3	0	105	
4/10-4/12/89	SK	14	11	3 ^f	116	12/83; 1/84; 9/78
4/9-4/11/90	SK	12	8	4 ^s	124	12/83; 1/84; 3/88; 9/78 and 4/89
7/18/90	SK	12	5 ^h	7	129	4/90; 4/90; 4/89; 2/84; 3/88 and 4/90; 11/83 and 3/84; 1/84 and 4/90
<i>1/27-1/28/90 N, SK</i>		<i>17</i>	<i>5</i>	<i>129, 5</i>	<i>134</i>	

N = net; SC = hand capture while scuba diving; SK = hand capture while skin diving

^aMonel alloy tags. All other tags used are made from Inconel 625 alloy. "Total no. tagged to date" was computed separately for Monel and Inconel.

^bTagged turtle 5008(8165) resighted 6/19/84 nesting at East Island, French Frigate Shoals.

^cTagged turtle 6711-13 resighted 7/9/86 nesting at East Island, French Frigate Shoals.

^dIncludes tagged turtle 7634-37 with four leeches, leech eggs, and likely small tumor in corner of right eye.

^eAlso includes tagged turtle (6182, 6242, 6260) originally tagged nesting at East Island, French Frigate Shoals, 6/82 and 8/82.

^fAlso includes tagged male (3041, 6164, Y205-06) originally tagged basking ashore at Whale-Skate Island, French Frigate Shoals, 5/4/79. Resighted at same location 6/79, 6/80, and 6/82.

^gAlso includes tagged male (6360-61, Y650) originally tagged basking at Tern Island, French Frigate Shoals, 11/28/82.

^hIncludes tagged turtle N388-89 with small tumor in corner of left eye.

SUMGRT. GHB

*1/27-1/28/90
N, SK*

Summary of green turtles tagged and resighted
at Punaluu Bay, Kau, Hawaii

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

Study dates	Method of capture	Total no. captured	No. newly tagged	No. tag Resightings	Total no. tagged to date	Original tag dates for turtles Resighted at Punaluu
6/76-9/76	SC	42	37	5	37 ^a	
5/7/77	N	3	3 ^b	0	3	
1/20-1/26/78	N, SC, SK	8	8	(1)	11	(8/76)
8/31-9/3/78	SK	10	10	0	21	
7/26-7/29/81	N, SK	7	7	0	28	
11/26/83	SC	3	3 ^c	0	31	8/78; 11/83
12/15-12/19/83	N, SC, SK	12	10	2 ^c	41	8/78; 11/83
1/8-1/10/84	N, SC, SK	13	9	4	50	1/78; 7/81; 12/83; 12/83
2/17-2/19/84	N, SK	12	10 ^d	2	60	8/78; 1/78
3/23-3/28/84	N, SC, SK	30	20	10	80	1/84; 1/84; 1/84; 2/84; 9/78; 11/83; 1/78 and 2/84; 8/78; 12/83; 8/78 and 12/83
4/13-4/14/84	N, SK	3	2	1	82	12/83-1/84-4/84
5/14-5/17/84	N, SK	11	7	4 ^e	89	2/84; 1/84; 3/84; 2/84
6/26-6/29/84	N, SK	13	8	5 ^d	97	2/84; 2/84; 1/84; 1/78- 2/84-3/84; 12/83-1/84- 4/84

#1
MOP
Punaluu

~~10135 FL 436~~

FL 414 905 27 NOV Tues

FL 355 155 28 NOV Wed

(FL 24 5:14 pm) #

Tropical 2310107 VAN 2995

Punaluu Number #15

11/27/90

TUES.

Depart Flight 414 TO Hilo - 4 bags, including new 5x10 NET.

Alan M. Suwa, Project Manager
HASKEKO (Hawaii) Inc.820 Mililani St. Suite 702-C
Honolulu, HI 96813
Tel. 808-532-1300
FAX (808) 532-1314

AT PUNALUU

w/many OTHERS 11/27 AM

John Coney spoke

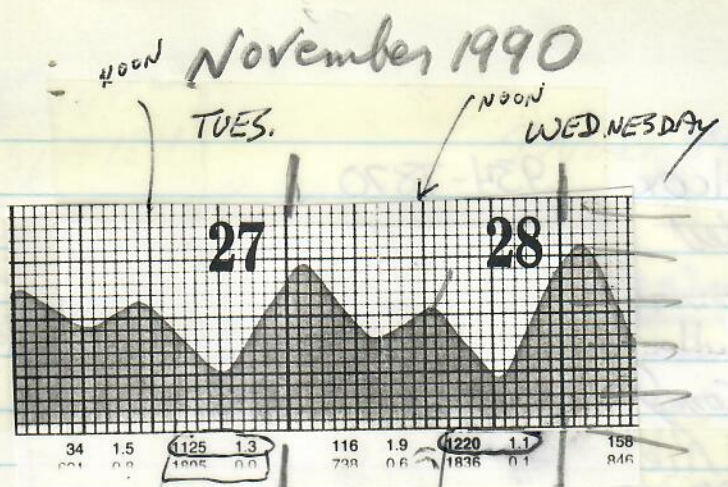
TO Him AND G-

Him over

HANDOUT

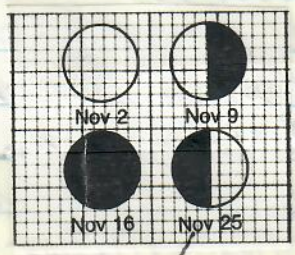
TO PUNALUU by 12:00 NOON -

John Coney, Mike Childers, Willie Dana already there.
Kilauea Military tour had pavilion reserved to 1 pm.
Tide decline - was high 1.3' at ~ 11 AM. "0" at 6 pm.
Turtles seen at several regular areas.Willie went in at ~ 1:30 pm and hand captured
one. 100' x 5' new net put in and "trawled" "seines"
from boat ramp in TO sand beach. 5 caught -
others escaped. Second Hand capture by Willie = 76 pm Snorkel at Horseshol - 3 seen resting
together, but only 1 caught - by Jim.
All 2 tags recovered



5 by "seine" net
 2 hand captures
 1 HORSESHOE 6pm

6 net
 3 hand



8 TOTAL
 (All tag recaptures)

9 total = 17 Grand total
 (11 were recaptures)

11/28
 Wednesday

To netting efforts - 9:30 - 10:30am

FIRST at same site - N.E. old Boat ramp -
 4 captures, but one was 2251 from yesterday.

Second - AT beach in front of Carape.
 3 captures.

+3 hand captures - 1 Willie, 1 Wolf 1 Leo!

∴ 9 TOTAL

Kristi Wilcox 934-7870
 * Doug Potter 951-9935
 Charles Darwin Lem Hallachar 933-3364
 Walt Judley 964-1445 (w) 933-3411 (o)
 John Conroy - ~~no~~ 933-2534
 Terry S. Riessen 961-9965
 Clinton Elliott - 961-9939
 Lani Brewer - 961-9818
 Jill Lippert 933-5336
 RONALD SABONIA 959-6792
 William Kenzi Dana
 Jim Snyder 959-8892
 Sher Miller 966-7006
 Michael Childers 967-8117

RFL
7723-24 LFL

5/15/84

S-51.9 PUNALOU

4 Nov 84

Dear Sirs,

Craig
5002 Hawk Nest
San Antonio
Texas 78250

Today we came across one of your tagged turtles (# 7723) at Ninole cove on the south of Hawaii. It had been dead for no more than 24 hours or so. The throat had been cut, but the body was in otherwise perfect condition. We turned him over (he was found on his back) & left him where we found him. We also saw another turtle, very large, swimming just off shore.

Laura Craig

P.S. If you have any questions, ask my husband —

William H. Craig
5002 Hawk Nest
San Antonio, TX 78250

(He's a veterinarian, but claims to have no working knowledge of turtles!)

4 Dec. 84.

Dear Dr. Balazs,

In answer to your questions
of 30 Nov. :

1. The cut was very clean
and appeared to have been made
with a sharp knife. I can't
say exactly how fresh it was,
but fairly. There was no bleeding,
but there was also no evidence
of decomposition. I would
think it was only hours old.
The cut was approximately
 $\frac{1}{2}$ " deep.

2. It could possibly
have washed up. It was a
rocky area about 4 feet
from the waves. We did see
another in the water about 10-15 ft. out -

3. No photographs taken

7
4. The tag was left on the carcass. I did not see a tag on the other flipper.

Sorry about the photo not existing. Only a scientist would photograph dead turtles! I would say he was about 18 inches across the shell ^(carapace) and weighed about 40-50 lbs. He was in excellent condition --- no butchering, no decomposition, no marks of any kind except the cut throat. I can't remember the coloring well enough to describe it (and I don't know what the normal appearance would be anyway). Just green. He looked as if he should have been alive.

As we hiked toward the cave, a 30ish tourist type lady waved us over. She was standing by the turtle, who

7
was on his back. She wanted
to turn him over & return
him to the water, but was
afraid to touch him. My
husband flipped him over.
Only then did we realize he
was dead. Bill turned him
over again. We saw the cut
throat & the tag. Bill scraped
the gunge off the tag. I took
the number & wrote you. We
left the turtle exactly as
we found him.

I have read and enjoyed
the material you sent. We
had a turtle experience on
our trip to Cozumel last year.
We were hoping to see some
nesting turtles near Punta Morenos.
We did not (it was a little late
in the year). What we did get
to see were some hatchlings. A

local residents
emerging & called the fish and
game people, who made sure
they made it to the ocean
undisturbed. The Mexican
fish & game authorities were
very friendly and informative,
and I learned about as much
as my Spanish would allow!
We had seen them patrolling
the coast road all night guarding
against poachers who slaughter
the nesting turtles. The
hatchlings we saw were Ridleys.

I ^{believe} know that you didn't ask
to hear that turtle story, but
it is curious that sea turtles
seem to creep into our vacations.

I did not realize the
problem here close to home....
the decline of the Kemp's Ridleys,
the shrinking problem, etc.

Again, thanks for ---
I've learned something, and in
the future I'll be more aware
of the sea turtle situation.

I hope we have been of
some help. I know the
critters need all the assistance
they can get. I am the last
in a long line of rural people,
hunters and conservationists. San
Antonio is a sunbelt growth city
with a population of over a
million in the metropolitan area.
As the city grows, the wildlife
is displaced. I see it daily---
the deer, racoons, bobcat, etc---
and I've wondered what can
be done. Maybe it's time I
found out ---

Laura Craig

Laura Craig
5002 Hawk Nest
San Antonio, Tx. 78238

AKO's - Envelope Tagger
Date = 7/16/84
Punaluu



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE

Southwest Fisheries Center
Honolulu Laboratory

P. O. Box 3830
Honolulu, Hawaii 96812

November 30, 1984 F/SWC2:GHB

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

Dear Dr. and Mrs. Craig:

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

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



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

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

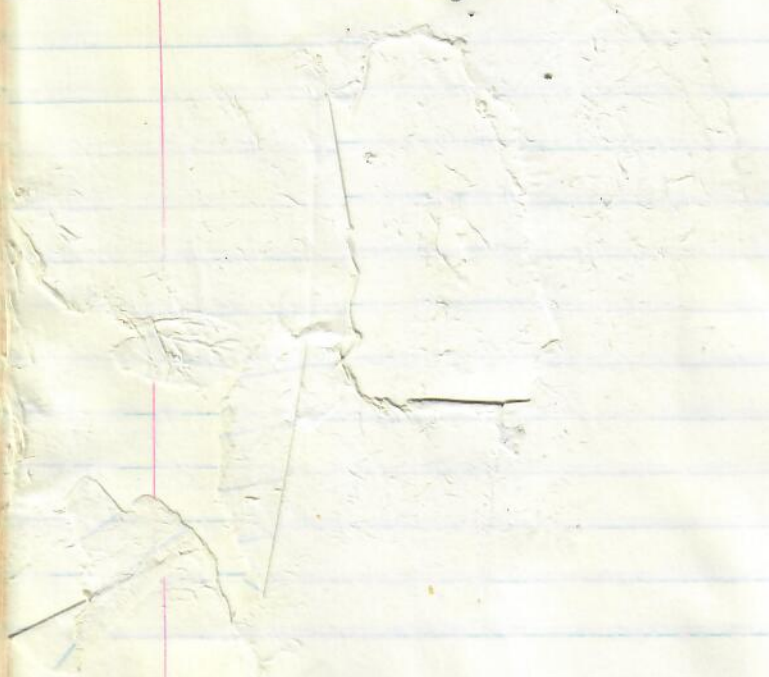
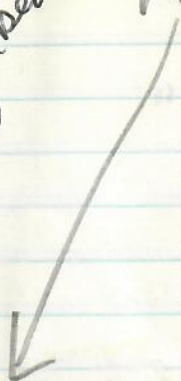
Sincerely,

George H. Balazs
Wildlife Biologist

Rainy when
data recorded
at North Sand beach
end of Pond low

4/27 pm

Mike Childers' tree
imprint



SEA TURTLE TAGGING FORM

①

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 1990	PUNALUU	NET
PERSON RECORDING DATA: CHILDERS		13:45

OLD TAGS:

LF	Y644
RF	Y643
RH	Y645

NEW TAGS: RFL

BLUE LFL (L3S) 2251

OTHER NEW TAGS:

SEX: M OR F

[]

STRAIGHT CARAPACE-LENGTH:

69.9

WIDTH:

56.3

NOTCH LENGTH:

69.9

CURVED CARAPACE LENGTH:

75.5

WIDTH:

71. -

HEAD WIDTH:

10.3

TAIL LENGTH: T

17.3

C

11.2

RIGHT FRONT FLIPPER WIDTH:

11.9

SAMPLES COLLECTED:

[]

PLASTRON LENGTH:

51.9

[]

WEIGHT:

[]

[]

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

Recovered
4/9/90 orig. TAG
7/18/90

Recaptured by seine net 11/28 - The next day - at same site by same method.

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

November 27, 1990

Punaluu

NET
13:45

PERSON RECORDING DATA:

Childers

OLD TAGS:

LF N389

RF N388

—

NEW TAGS:

RFL

LFL

OTHER
NEW
TAGS:

RH N537

SEX: M OR F

STRAIGHT CARAPACE-LENGTH:

69.8

WIDTH:

52.7

NOTCH LENGTH:

69.3

CURVED CARAPACE LENGTH:

75.0

WIDTH:

69.5

HEAD WIDTH:

10.4

TAIL LENGTH: T

15.6

C

10.1

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

55.1

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

#1 Tumor DORSAL LEFT EYE
PHOTOS - CLOSE-UP by GHBSame Turtle that was captured 7/90 Punaluu #13
Need earlier photo

7/18/90

SEA TURTLE TAGGING FORM

(3)

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 1990 PUNALUU NET
 PERSON RECORDING DATA: Childers 13:45

OLD TAGS: LF Z2 NEW TAGS: RFL
 RF Y653 LFL
 OTHER NEW TAGS: RH N538

SEX: M OR F

STRAIGHT CARAPACE-LENGTH: 66.4 WIDTH: 53.0

NOTCH LENGTH: 66.3

CURVED CARAPACE LENGTH: 71.0 WIDTH: 68.0

HEAD WIDTH: 9.9

TAIL LENGTH: T 14.1 C 8.5

RIGHT FRONT FLIPPER WIDTH: 12.3 SAMPLES COLLECTED:

PLASTRON LENGTH: 53.6

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

4/10/90 sig. TAG * BITE MARK ON TAG Z2.
 7/18/90 Resight Another turtle bite it? or turtle bit its own tag? or PUFFERFISH?

(4)

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 1990 PANAMA	NET 13:45
PERSON RECORDING DATA: Childers	

OLD TAGS:

LF	Y199
RF	Y198
LH	Y200

NEW TAGS: RFL

LFL-

Z 252

OTHER
NEW
TAGS:

SEX: M OR F

STRAIGHT CARAPACE-LENGTH:

70.5

WIDTH:

57.7

NOTCH LENGTH:

70.0

CURVED CARAPACE LENGTH:

75.0

WIDTH:

71.0

HEAD WIDTH:

10.3

TAIL LENGTH: T

15.5

C

11.5

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

56.5

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

ORIG TAG,
4/11/89RAISED INJURY
POSTERIOR CARAPACE

SEA TURTLE TAGGING FORM

(5)

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 1990 Punaluu	NET
PERSON RECORDING DATA: Childers	13:45

OLD TAGS:

LF	5164
RF	3041
RH	Y205

NEW TAGS:

RFL

N/A
—

LFL

OTHER
NEW
TAGS:

—
—

SEX: M OR F

M

STRAIGHT CARAPACE-LENGTH:

88.5

WIDTH:

68.1

NOTCH LENGTH:

88.5

CURVED CARAPACE LENGTH:

93.0

WIDTH:

90.0

HEAD WIDTH:

13.3

TAIL LENGTH: T

44.3

C

32.5

RIGHT FRONT FLIPPER WIDTH:

--

SAMPLES COLLECTED:

--

PLASTRON LENGTH:

72.0

--

WEIGHT:

--

--

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

→ ADD. LF/Y 206 old TAG also present.
5/79 FFS
+ many others

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 1990	Punaluu	Hand
PERSON RECORDING DATA: Childers		13:45

OLD TAGS:

LF 7540
RF 7541

NEW TAGS: RFL

Blue

LFL -

(L35) 225.3

OTHER
NEW
TAGS:

SEX: M OR F

--

STRAIGHT CARAPACE-LENGTH:

70.6

WIDTH:

56.0

NOTCH LENGTH:

70.4

CURVED CARAPACE LENGTH:

76.5

WIDTH:

71.5

HEAD WIDTH:

10.8

TAIL LENGTH: T

13.0 -

C

9.5 -

RIGHT FRONT FLIPPER WIDTH:

N/T

SAMPLES COLLECTED:

--

PLASTRON LENGTH:

54.4

WEIGHT:

--

--

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

Possible Tag Loss 3-4

12/17/83
4/89yes - 7542 lost
since 4/11/89

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 1990	PUNALUU	Hard
PERSON RECORDING DATA: Childers		13:45

OLD TAGS:

LF Y646
LH Y648
RF Y647

NEW TAGS: RFL

BLUE LFL (L35) 2254

OTHER NEW TAGS:

SEX: M OR F

--

STRAIGHT CARAPACE-LENGTH: 66.3

WIDTH: 52.8

NOTCH LENGTH: 66.1

CURVED CARAPACE LENGTH: 71.0

WIDTH: 65.5

HEAD WIDTH: 10.4

TAIL LENGTH: T N/T C N/T

RIGHT FRONT FLIPPER WIDTH: N/T

SAMPLES COLLECTED:

PLASTRON LENGTH: 52.5

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

R2 scale
 ORIG. TAG 4/9/90
 ENTIRE missing & completely healed
 Some seen 4/9/90

RVD 90
11-27-94
8

SEA TURTLE TAGGING FORM

20th seen
HAND

CAPTURE DATE, LOCATION AND METHOD:

NOVEMBER 27, 90 Punaluu HORSESHOE 18:00
PERSON RECORDING DATA: Childers

OLD TAGS:
LF Y182
RF Y181
—

NEW TAGS: RFL
Blue LFL (L35) Z228

OTHER NEW TAGS: RH N539

SEX: M OR F

STRAIGHT CARAPACE-LENGTH: 59.1 WIDTH: 46.6

NOTCH LENGTH: 58.8

CURVED CARAPACE LENGTH: 63.0- WIDTH: 58.0-

HEAD WIDTH: 9.1

TAIL LENGTH: T 12.8 C 9.7

RIGHT FRONT FLIPPER WIDTH: 10.6 SAMPLES COLLECTED:

PLASTRON LENGTH: 46.2

WEIGHT: 66 lbs.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

ORIG Tagged
4/89

11/28

RECAP. from 11/27/90 Z257

NOT IN COUNT 95

①

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 90 Net 930am N. END

PERSON RECORDING DATA: Kristi Wilcox

OLD TAGS:

[]
[]
[]

NEW TAGS:

RFL

N 540

LFL

N 541

OTHER NEW TAGS:

RH N 542

L35 Z255

upside down

SEX: M OR F

[]

STRAIGHT CARAPACE-LENGTH:

65.8

WIDTH:

52.2

NOTCH LENGTH:

65.8

CURVED CARAPACE LENGTH:

72.0

WIDTH:

66.5

HEAD WIDTH:

10.3

TAIL LENGTH: T

[]

C

[]

RIGHT FRONT FLIPPER WIDTH:

[]

SAMPLES COLLECTED:

[]

PLASTRON LENGTH:

51.6

WEIGHT:

[]

[]
[]

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

Numerous burrowing barnicles.

2

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 1990

Net. N. End

PERSON RECORDING DATA:

Kristi Wilcox

9:30 am

OLD TAGS:

NEW TAGS:

RFL

N 543

LFL

N 544

OTHER
NEW
TAGS:

RHNS45

L24 Z256

upside down

SEX: M OR F

--

STRAIGHT CARAPACE-LENGTH:

67.8

WIDTH:

54.8

NOTCH LENGTH:

67.8

CURVED CARAPACE LENGTH:

73

WIDTH:

68

HEAD WIDTH:

10.3

TAIL LENGTH:

T

16.2

C

12.0

RIGHT FRONT FLIPPER WIDTH:

--

SAMPLES COLLECTED:

--

PLASTRON LENGTH:

51.0

WEIGHT:

--

--

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

SEA TURTLE TAGGING FORM

3

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 1990	Net N-END
PERSON RECORDING DATA:	9:30 a.m

OLD TAGS:

RFL Y 193
LFL Y 194

NEW TAGS:

RFL
LFL

OTHER NEW TAGS:

RH N 546
L3-4 Z 257

SEX: M OR F

--

STRAIGHT CARAPACE-LENGTH:

58.3

WIDTH:

46.2

NOTCH LENGTH:

58.2

CURVED CARAPACE LENGTH:

63

WIDTH:

56

HEAD WIDTH:

9.2

TAIL LENGTH: T

14

C

10.5

RIGHT FRONT FLIPPER WIDTH:

10.1

SAMPLES COLLECTED:

PLASTRON LENGTH:

45.2

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

ORIG. TAGGED
4/89

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 1990

PERSON RECORDING DATA:

Kristi Wilcox

10:00 a.m.

OLD TAGS:

RFL 7604

LFL 7605

RH Y654

NEW TAGS:

RFL

L3-4 Z258

LFL

OTHER
NEW
TAGS:

SEX: M OR F

STRAIGHT CARAPACE-LENGTH:

72.8

WIDTH:

58.0

NOTCH LENGTH:

72.5

CURVED CARAPACE LENGTH:

78.0

WIDTH:

72.

HEAD WIDTH:

11.1

TAIL LENGTH:

T

13.5

C

9.5

RIGHT FRONT FLIPPER WIDTH:

12.5

SAMPLES COLLECTED:

PLASTRON LENGTH:

56.4

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

1/10/84 ORIG. TAG



4/90 RESIGHT

5

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 1990

PERSON RECORDING DATA: Kristi Wilcox 10:00 a.m

OLD TAGS: RFL Y195
LFL Y196
RH Y197

NEW TAGS: RFL R347259
LFL

OTHER NEW TAGS:

SEX: M OR F

STRAIGHT CARAPACE-LENGTH: 70.0

WIDTH: 54.0

NOTCH LENGTH: 69.4

CURVED CARAPACE LENGTH: 75

WIDTH: 71.5

HEAD WIDTH: 10.5

TAIL LENGTH: T 14.6

C 10.6

RIGHT FRONT FLIPPER WIDTH: 12.3

SAMPLES COLLECTED:

PLASTRON LENGTH: 54.0

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

4/89 ORIG. TAGGED

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 1990

PERSON RECORDING DATA:

Kristi Wilcox

10:00 AM

OLD TAGS:

NEW TAGS: REL

N547 3-4

LFL

N549

OTHER
NEW
TAGS:

REL N548

LH 3-4 Z260

upside down

SEX: M OR F

--

STRAIGHT CARAPACE-LENGTH:

66.8

WIDTH:

52.6

NOTCH LENGTH:

66.8

CURVED CARAPACE LENGTH:

73

WIDTH:

65

HEAD WIDTH:

9.9

TAIL LENGTH: T

14

C

10

RIGHT FRONT FLIPPER WIDTH:

12.0

SAMPLES COLLECTED:

PLASTRON LENGTH:

52.0

WEIGHT:

--

--

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

R15 - 3/4 missing

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

7

Nov. 28, 1990

PERSON RECORDING DATA: Kristi Wilcox 10:00 Am

OLD TAGS:

NEW TAGS: RFL N551 LFL N550

OTHER NEW TAGS: RH N552 LB-4 Z229

SEX: M OR F

STRAIGHT CARAPACE-LENGTH: 67.9 WIDTH: 53.8

NOTCH LENGTH: 67.7 (slightly broken)

CURVED CARAPACE LENGTH: 72.5 WIDTH: 65.0

HEAD WIDTH: 10.2

TAIL LENGTH: T 14.6 C 10.8

RIGHT FRONT FLIPPER WIDTH: 11.3 SAMPLES COLLECTED:

PLASTRON LENGTH: 50.7

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

Tag site on LH missing

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Nov. 28, 1990

PERSON RECORDING DATA: Sherri Miller

10:00 AM

OLD TAGS:

7571 }
L3-4 }

RFL 7550

LFL 7570

RH 4649

NEW TAGS: RFL

LFL

OTHER
NEW
TAGS:

SEX: M OR F

M?

STRAIGHT CARAPACE-LENGTH:

78.8

WIDTH:

59.8

NOTCH LENGTH:

78.6

CURVED CARAPACE LENGTH:

83

WIDTH:

77

HEAD WIDTH:

11.0

TAIL LENGTH: T

26.8

C

19.5

RIGHT FRONT FLIPPER WIDTH:

14.2

SAMPLES COLLECTED:

PLASTRON LENGTH:

59.3

WEIGHT:

78.6

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

3rd Lateral Right - likely spear hole wound
partly healed

12/58/83 orig TAG

4/90 Retag

9

SEA TURTLE TAGGING FORM

END 103
PUNAWU 14

CAPTURE DATE, LOCATION AND METHOD:

28 Nov 90	
PERSON RECORDING DATA: Sherri Miller	10:00 AM

OLD TAGS:

NEW TAGS: RFL

N553
LFL
N554

OTHER NEW TAGS:

RH N555
L35-Z230

SEX: M OR F

--

Upside down

STRAIGHT CARAPACE-LENGTH:

70.8

WIDTH:

57.5

NOTCH LENGTH:

70.5

CURVED CARAPACE LENGTH:

76

WIDTH:

71

HEAD WIDTH:

9.6

TAIL LENGTH: T

15.7

C

10.3

RIGHT FRONT FLIPPER WIDTH:

11.9

SAMPLES COLLECTED:

PLASTRON LENGTH:

55.2

WEIGHT:

--

--

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

lots of burrowing barnacles.

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:	

OLD TAGS:

NEW TAGS: RFL

LFL

OTHER
NEW
TAGS:

SEX: M OR F

--

STRAIGHT CARAPACE-LENGTH:

--

WIDTH:

--

NOTCH LENGTH:

--

CURVED CARAPACE LENGTH:

--

WIDTH:

--

HEAD WIDTH:

--

TAIL LENGTH: T

--

C

--

RIGHT FRONT FLIPPER WIDTH:

--

SAMPLES COLLECTED:

--

PLASTRON LENGTH:

--

WEIGHT:

--

--

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

Dalton

PLEASE READ THESE INSTRUCTIONS CAREFULLY
BEFORE TAGGING



FITTING INSTRUCTIONS FOR ROTORIESE 0, 1 & 2 FLEXIBLE EARTAGS, JUMBO AND ROTOTAGS

1. Load male and female tags into pliers. See Figs 1 & 2. Release tension on springs as necessary.
2. Gently close pliers until pin touches the female tag. Ensure both tags are perfectly lined up. See Fig. 3.

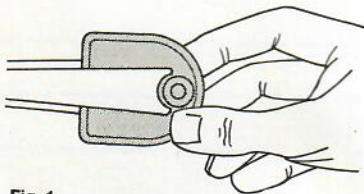
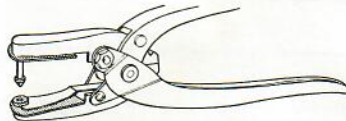


Fig. 1
ROTORIESE SIZE 0, 1 & 2 EARTAGS
Shoulder on tag locates against spring.



JUMBO EARTAG PLIERS

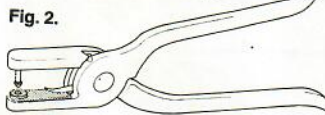


Fig. 2.
ROTOTAG PLIERS

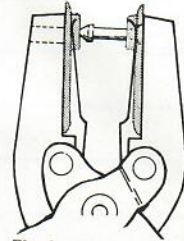


Fig. 3.
Make sure that the tag is pressed into the jaws of the pliers and that the tags are perfectly lined up.

3. Apply from either side of the ear.
4. Grip the ear firmly at the proposed position of tag and place point of tag in contact with the ear close to the thumb. Holding tag firmly on the ear, close the pliers.
5. Check that the tag is free of the pliers before pulling away.
6. Do not expose tag to severe cold before inserting into ears.

For 100 per cent foolproof Tagging, it is vitally important to ensure that the Tag is inserted in the CORRECT position on the ear. This is illustrated below.

It is Essential also that the Tag be free fitting with no shreds of Tissue between Male Pin and inside of Hole on flat section. This can be cleared by rotating each section independently and working the flat section back and forth along the Pin.

Study dates	Method of capture	Total no. captured	No. newly tagged	No. tag resightings	Total no. tagged to date	Original tag dates for turtles resighted at Punaluu
3/23-3/25/87	N	7	5	2	102	3/87; 3/87
3/21-3/23/88	N	3	3	0	105	
4/10-4/12/89	SK	14	11	3 ^f	116	12/83; 1/84; 9/78
4/9-4/11/90	SK	12	8	4 ^s	124	12/83; 1/84; 3/88; 9/78 and 4/89
7/18/90	SK	12	5 ^h	7	129	4/90; 4/90; 4/89; 2/84; 3/88 and 4/90; 11/83 and 3/84; 1/84 and 4/90

N = net; SC = hand capture while scuba diving; SK = hand capture while skin diving

^aMonel alloy tags. All other tags used are made from Inconel 625 alloy. "Total no. tagged to date" was computed separately for Monel and Inconel.

^bTagged turtle 5008(8165) resighted 6/19/84 nesting at East Island, French Frigate Shoals.

^cTagged turtle 6711-13 resighted 7/9/86 nesting at East Island, French Frigate Shoals.

^dIncludes tagged turtle 7634-37 with four leeches, leech eggs, and likely small tumor in corner of right eye.

^eAlso includes tagged turtle (6182, 6242, 6260) originally tagged nesting at East Island, French Frigate Shoals, 6/82 and 8/82.

^fAlso includes tagged male (3041, 6164, Y205-06) originally tagged basking ashore at Whale-Skate Island, French Frigate Shoals, 5/4/79. Resighted at same location 6/79, 6/80, and 6/82.

^gAlso includes tagged male (6360-61, Y650) originally tagged basking at Tern Island, French Frigate Shoals, 11/28/82.

^hIncludes tagged turtle N388-89 with small tumor in corner of left eye.

SUMGR. GHB

See Table
George P. 1986

Summary of Green turtles tagged and resighted
at Punaluu Bay, Kau, Hawaii

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

Study dates	Method of capture	Total no. captured	No. newly tagged	No. tag Resightings	Total no. tagged to date	Original tag dates for turtles resighted at Punaluu
6/76-9/76	SC	42	37	5	37 ^a	
5/7/77	N	3	3 ^b	0	3	
1/20-1/26/78	N, SC, SK	8	8	(1)	11	(8/76)
8/31-9/3/78	SK	10	10	0	21	
7/26-7/29/81	N, SK	7	7	0	28	
11/26/83	SC	3	3 ^c	0	31	
12/15-12/19/83	N, SC, SK	12	10	2 ^c	41	8/78; 11/83
1/8-1/10/84	N, SC, SK	13	9	4	50	1/78; 7/81; 12/83; 12/83
2/17-2/19/84	N, SK	12	10 ^d	2	60	8/78; 1/78
3/23-3/28/84	N, SC, SK	30	20	10	80	1/84; 1/84; 1/84; 2/84; 9/78; 11/83; 1/78 and 2/84; 8/78; 12/83; 8/78 and 12/83
4/13-4/14/84	N, SK	3	2	1	82	12/83-1/84-4/84
5/14-5/17/84	N, SK	11	7	4 ^e	89	2/84; 1/84; 3/84; 2/84
6/26-6/29/84	N, SK	13	8	5 ^d	97	2/84; 2/84; 1/84; 1/78- 2/84-3/84; 12/83-1/84- 4/84

#12

Summary of 12 green turtles tagged and resighted at Punaluu Bay, Kau, Hawaii, during the April 9-11, 1990 cooperative NMFS/MOP-UH Hilo sea turtle research project.

compiled by
George H. Balazs

Tag No.	Straight carapace length (cm) recovery/initial	Weight (lbs) recovery/initial	Date originally tagged and interval (yrs)	Growth rate in cm/yr	Notes
1.	7550, 7570, 71 (Y649RH)	78.6 / 66.4	-- / 88	12/18/83 6.3	1.9 ^{3/4} "
2.	6360, 61 (Y650RH)	87.8 / --	-- / --	11/28/82 8.6	-- Adult male originally tagged while basking ashore at Tern Island, French Frigate Shoals
3.	2899, 2926 Y180	61.5 / 43.8	102 / 24	9/78 and 4/89 11.6	.6" 1.5 Deformed carapace
4.	7604, 05 (Y654RH)	71.9 / 48.4	-- / 41	1/10/84 6.3	3.7 ^{1 1/2} "
5.	8920, 21 (Y655RH)	56.5 / 47.6	65 / 36	3/22/88 2.0	4.4 ^{1 3/4} " Donated by fisherman during Punaluu #9
6.	Y637, 38, 39	55.1	56	--	-- Y639RH
7.	Y640, 41, 42	59.1	76	--	-- Y641 exp; healed injuries to right margin. Y642RH
8.	Y643, 44, 45	69.8	--	--	-- Y643 exp; Y645RH
9.	Y646, 47, 48	65.6	--	--	-- Y643 exp; Y645RH
10.	Z1 (blue) Y651, 52	69.6	--	--	-- R2S missing but healed,
11.	Z2 (blue) Y653	65.2	102	--	--
12.	Z3 (blue) Y656	44.2	30	--	-- Laupapa 9:45 pm



GEORGE H. BALAZS
ZOOLOGIST AND LEADER,
MARINE TURTLE RESEARCH

NATIONAL MARINE FISHERIES SERVICE
SOUTHWEST FISHERIES CENTER
HONOLULU LABORATORY
2570 DOLE STREET
HONOLULU, HAWAII 96822-2396

TELEPHONE
(808) 943-1240
(808) 395-6409
FAX (808) 942-2082

Hamilton? see w/Howe mag, walker.
 Need: DBED data book
1989

NOTES

Hawaii's → "Sharks, turtles & peoples - populations in transition"

Maui News articles re: 14' boat loss (Rec'd 6/00)
 (early April 90)

Slide of Snorkel Bob's Ad - 4/90 Aloha Mag In Fly

- ^{Prior} Study Material for Summer class

- Ruth - Lunaluu Park
 Kau - kona Johnson

- Material to Vita - teacher p. 48

- Chris Bengay

- Arnold Howard's Birthday - end of June
 - gone June & July

Width of Jumbo Roto tag? 10mm (9mm TO RAISED A)

"Severe Cold"? ~~plastic~~ tag

Need Single-Style punch

- Tag SLP

- Tags exposed to Elements.

17-18

- Date of July 1990 PUNAWO TRIP - TIDE?
- Set net near boat ramp sand beach
- Willie - nesting site mentioned?
- "one palm tree" beach ^{KAWA} lots of turtles?
owner of Kilauea LODGE & Restaurant
- ✓ - "Congratulations" letter to Corey & mol.
- ✓ ~~need~~ Bek certificate



March 30, 1989

Box 4
96777Dear George,
Aloha!

Sorry we were not at home when you stopped by.
Yes, it sure has been quite sometime since the last
time & it's about time!

So far, our weathers been pretty nice and Arnold's been
able to go out fishing every chance he get.

Yes, there are quite many turtles feeding close to shore.
They are one of our tourist attractions, especially for
those who never actually seen one in the ocean, only in
tanks. They are all around the place, from the area
where you are thinking of setting your nets, all the way
over to the boat ramp, close to shore, even to where you
saw them. They are so tame, one can even catch
them with out a net. I once have actually seen a
man tourist who caught one and brought it on shore,
took pictures and let it go back in. Then there are
those who swims along side, using their underwater cameras
& watch them feed. A tourist driver caught one close to
our shop area, held it high out of the water while his
people took pictures of him & the turtle from standing
on the rocks close to the water. It was a nice day and
the tide was low. Usually one cannot notice or see them
as much on a windy and rough day & when the tide is high.

D

If you do come early enough, you should watch and see them for yourself before setting the nets.

Haven't seen or heard of any nesting on our beach yet. I have heard people talk about some who poach but we haven't actually seen or heard names given. Guess they do it at night.

Some of the throw net fishermen get so angry at times. Upon seeing a school of fish, throws the net over them and not knowing a turtle was along feeding with them, gets caught too and being so large & etc, tears their nets apart.

This is the time when the Akule comes into the bay. Arnold as well as others use cross nets to net them for bait and when they do, hope and pray that a stupid turtle is not caught too.

I think I had better sign off now as it's getting late, and I have a eye doctor and dentist appointment tomorrow in Hilo at 8:30 a.m. & 11:15. Got to leave here by 7 a.m. Be seeing you soon - bring pictures of the boys! love to see how much they have grown -
A love! to Linda & boys -

Sincerely,
Janette
and Arnold

SUMMARY OF LONG TERM TAG RECOVERIES MADE AT PUNALUU BY THE UH-HILO MOP/NMFS SEA TURTLE PROJECT

Tag No.	Date recovered and carapace length, cm	Date/location originally tagged & length	Interval (mos.) (yrs.)		Increase in carapace length		Mean yearly growth rate	
					cm	inches	cm	inches
2877 (male)	12-18-83 60.3 (Net)	8-31-78 Punaluu (Horseshoe) (41.3)	63.5	(5.3)	18.9	7.4	3.6	1.4
2514	1-8-84 78.0 (Scuba)	1-23-78 Punaluu (Bay) (57.2)	72.0	(6.0)	20.8	8.2	3.5	1.3
5501 (Female)	1-9-84 75.3 (Net)	7-28-81 Punaluu (Bay) (68.1)	29.0	(2.4)	7.2	2.8	3.0	1.2
2875	2-18-84 61.5 (Net)	8-31-78 Punaluu (Horseshoe) (39.4)	65.5	(5.5)	22.1	8.7	4.0	1.6
2523	2-19-84 65.5 (Net)	1-25-78 Punaluu (Horseshoe) (39.0)	73.0	(6.1)	26.5	10.4	4.3	1.7

15 - 19 Dec. 1983 Expedition - 12 turtles captured (1 long term and 1 short term recovery)

8 - 10 Jan. 1984 Expedition - 13 turtles captured (2 long term and 2 short term recoveries)

17 - 19 Feb. 1984 Expedition - 12 turtles captured (2 long term recoveries)

compiled by G.H. Balazs

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

1987 PUNALUU

EXP. NO. 9

Green turtles captured and tagged at Punaluu Bay, Kau, Hawaii
on 23-25 March 1987.

	Date	Time	Tag No.	Sex	Straight-line carapace (cm)	
					Length	Width
1.	3/23/87	2050	9826-29	F	80.8	62.1
2.	3/23/87	2230	9830-31	--	59.7	--
3.	3/23/87	2400	7734-36	F	85.7	62.7
	(Originally tagged at Punaluu on 6/28/84, 2 years, 9 months ago, at which time it measured 85.1 cm S-LC. Growth rate was 0.22 cm per year.)					
4.	3/24/87	2230	9832-33	--	60.9	47.8
5.	3/25/87	0530	9834-37	F?	75.1	57.6
6.	3/25/87	0530	7630-33; 9838	M	89.7	68.6
	(Originally tagged at Punaluu on 2/18/84, 3 years, 1 month ago, at which time it measured 88.8 cm S-LC. Growth rate was 0.29 cm per year.)					
7.	3/25/87	0530	9839-40	--	46.3	36.0

! large

! large

MARCH 1988 = EXP. NO. 10

Summary of long-term recoveries of green turtles made at Punaluu,
Kau District, Island of Hawaii.

Tag No.	Tag Loss	Date recovered and length <small>cm</small>	Date/location originally tagged and length	Interval		Increase in carapace length		Mean yearly growth rate		Sex ¹
				(mo)	(yr)	(cm)	(in)	(cm)	(in)	
2877,79 (7533)	0	12/18/83 60.3 (Net)	8/31/78 Punaluu (Horseshoe) (41.3)	63.5	5.3	18.9	7.4	3.6	1.4	M
2514,15 (7593,94)	1	1/8/84 78.0 (Scuba)	1/23/78 Punaluu (Bay) (57.2)	72.0	6.0	20.8	8.2	3.5	1.3	ND
5501-04	0	1/9/84 75.3 (Net)	7/28/81 Punaluu (Bay) (68.1)	29.0	2.4	7.2	2.8	3.0	1.2	F
2875,76 (7638)	0	2/18/84 61.5 (Net)	8/31/78 Punaluu (Horseshoe) (39.4)	65.5	5.5	22.1	8.7	4.0	1.6	ND
2523,24 (7644)	0	2/19/84 65.5 (Net)	1/25/78 Punaluu (Horseshoe) (39.0)	73.0	6.1	26.5	10.4	4.3	1.7	ND
2896,97	0	3/25/84 69.5 (Net)	9/2/78 Punaluu (Hale Loke) (42.9)	66.7	5.6	26.6	10.5	4.8	1.9	ND
2885 (7686-88)	--	3/25/84 75.5 (Net)	8/31/78 Punaluu (Horseshoe) (54.9)	66.8	5.6	20.8	8.2	3.7	1.5	ND

¹M = male, ND = not determined, F = female.

- Expedition 1, 26 Nov. 1983, 3 turtles captured.
 Expedition 2, 15-19 Dec. 1983, 12 turtles captured (1 long- and 1 short-term recovery).
 Expedition 3, 8-10 Jan. 1984, 13 turtles captured (2 long- and 2 short-term recoveries).
 Expedition 4, 17-19 Feb. 1984, 12 turtles captured (2 long-term recoveries).
 Expedition 5, 23-28 Mar. 1984, 30 turtles captured (2 long- and 9 short-term recoveries).
 Expedition 6, 13-14 Apr. 1984, 3 turtles captured (2 short-term recoveries). *Longterm*
 Expedition 7, 14-17 May 1984, 11 turtles captured (4 short-term recoveries).
 Exped. 8 26-29 June 84

Exp. 9 = 23-25 March 1987 (7 captures w 2 recov) (see p. 117)
 Exp. 10 21-23 March 1988 Robert Forsyth only
 (3 captured -)

Expedition
#11
ND.

Summary of green turtles, Chelonia mydas, tagged and resighted at Punaluu Bay, Kau, Hawaii during the 10-12 April 1989 cooperative NMFS/MOP UH Hilo marine turtle research project.

Compiled by George H. Balazs

and Barry K. Choy

Tag No.	Straight carapace length, cm	weight kg	Elapsed time since originally tagged (yrs)	Growth rate in cm/year	Notes
2899, 2926 (Y-180)	61.2	41.8	10.6	1.6	Deformed carapace.
7540, 7541 7542	69.2	46.4	5.3	2.4	
7599, 7600 (Y-201)	67.2	41.1	5.2	3.0	
3041, 6164 (Y-205, Y-206)	88.6		7.8		Adult male tagged during the breeding season at French Frigate Shoals.
Y-176, Y-177 Y-178, Y-179	74.4	60.0			Observed copulating 4-12-89
Y-181, Y-182	54.7	23.0			
Y-183, Y-184 Y-185	65.7	43.0			
Y-186, Y-187	65.9				
Y-188, Y-189 Y-190	63.3	40.2			Depigmented streak in carapace
Y-191, Y-192	50.7	17.7			

5/4/79
+
6/79
6/80
6/82

con't.

Tag No.	Straight carapace length, cm	weight kg	Elapsed time since originally tagged (yrs)	Growth rate in cm/year	Notes
Y-193, Y-194	50.0	18.6			
Y-195, Y-196 Y-197	64.7	38.4			
Y-198, Y-199 Y-200	65.6	38.2			
Y-202, Y-203 Y-204	61.9	39.8			Neck puncture and abraded marginals

EXP. #11

10-12 April 1989

14 turtle captured

(3 long term recoveries

+ 1 long term from FFS)

SUMMARY OF GREEN TURTLE TAGGINGS
ISLAND OF HAWAII

by
George H. Balazs
Hawaii Institute of Marine Biology

Dates	Location	Number captured	Number of tag recoveries	Total number newly tagged
13-15 May 1973	Kiholo	16	1	15
June-Sept. 1976	^{Bob WRIGHT} Punaluu	42	5	37
4-8 May 1977	Kaaluvalu Punaluu	13 3	1 0	12 3
19-27 January 1978	Kaaluvalu Punaluu	7 10	1 2	3 7
31 Aug.-6 Sept. 1978	Kaaluvalu Punaluu	6 11	2 1	4 10
18-22 March 1980	Kiholo	12	0	12

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

