

MOLOKAI-5

808-395-6409

WH6BLQ

George H. Balazs  
992-A Awaawaanoa Place  
Honolulu, Hawaii 96825

1990-91

BALAZS

PAU HANA (From OAHU) = 531-4004  
MOLOKAI - 553-5342

ED Medeiros 553-5702

Bill Puleloa 553-3778

KUALAPOU 96757  
P.O. Box 247

SCP-91-01

SCP-92-04

15-16 NOV. 91 (2 days) P. 90-95 Puleloa & Medeiros <sup>ALONE</sup>  
BULLPEN = 2 days SITE E  
45 TURTLES (16 TUMORS 36%) (18 RECOV. 40%)

TAGS USED V752-V779  
9227-9250; 9206-9211  
9213

3 days (3 day) 4-6 DEC 91 P. 89, 96-103  
NARRATIVE = P. 111

41 TURTLES TAGS USED =  
V560-V600; V103; V107-  
T50226-T50247

SITE F 76

pages = 31

9-11 July 1991

Medeiros Bullpen - 2 DAYS SITE A  
1 DAY SITE G

3 pick-up days  
(2 DAYS SITE A  
1 DAY SITE G)

AUSTRALIAN WILDLIFE  
TITANIUM  
(T50201, 03, 05, 07, 08, 09, 10,  
12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24)

TAGS USED - (V64-V74  
V301-V306  
V308-V352)



Composition Book • 9 3/4 in. x 7 1/2 in.

Available As:

Item No.	Sheets	Ruling
09-9130	60	College Ruled & Margin
09-9132	60	College Ruled & Margin & Paged
09-9134	100	College Ruled & Margin

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WH6BLQ  
George H. Balazs  
992-A Awaawaanoa Place  
Honolulu, Hawaii 96825

V101, V102  
V104-V106  
NOT USED  
HERE

Get TAG  
Service  
Summary  
END OF  
book  
& This  
book

ED - 553-5702 INSHORE SITE C  
Bill - Office 567-6696 home - 553-3778

Wed. SITE A 1+12 = 13 Friday (2 pick-up days) = 3 can  
28 FEB - 2 MARCH 1990 p. 2-13

MEDeiros BULLPEN  
(TAGS USED - Y-601 -  
Y 636 + 9202)

Monday-Thurs. (3-pick-up days)  
7-10 MAY 1990 p. 16-33

SITE A 47+3+1 = 51  
SITE A A  
MEDeiros BULLPEN  
(TAGS USED - Y685 - Y700;  
Y751 - Y828; Z30 - Z32 blue plastic)

Both (2 pick-up days) SITE B  
19 2-3<sup>17</sup> JULY 1990 Medeiros bullpen  
MON TUE 36

Page 34-45 (TAGS USED = Y914 - Y950  
Z86 - Z100 (15)  
Z150 - Z170 (21))

36 Blue plastic -  
one to every animal  
captured

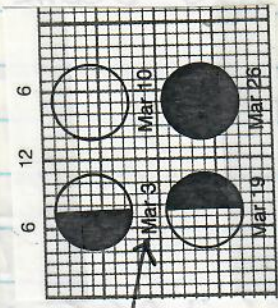
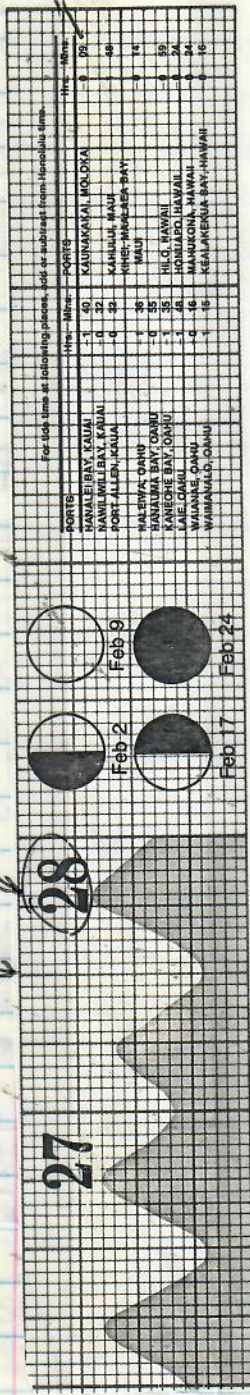
Page 46-71  
9-11 JULY 1990 Medeiros bullpen  
42+13+26 (TAGS USED Z101 = Z149)

+1 mortality 11  
81

(Y951 - Y999  
N-326 - N373  
Z171 - Z195)

3 pick-up  
days

FEB 90  
WEDNESDAY  
NET SET BY E.D.  
NOON 12:00



515 1.6 1809 1.6 14 0.3 1209 -0.2  
1137 -0.2 547 1.3 1905 1.7

MARCH 90

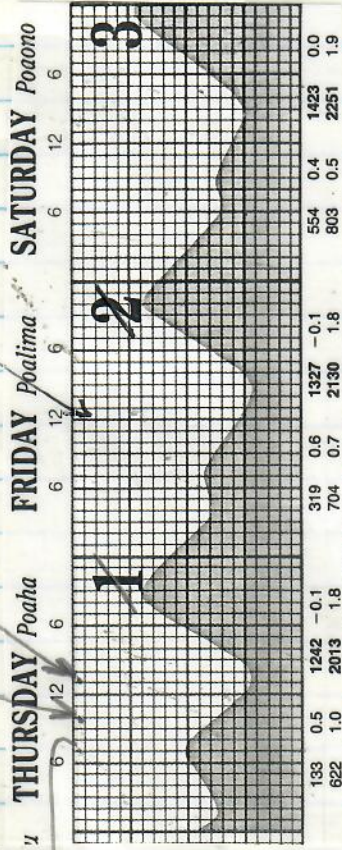
only the 1st  
TURTLE  
NET - TIME

1pm  
NET MOVED  
TO THE EAST,  
INSIDE  
of SITE C

Pick-up at  
SITE 12  
captures  
(4 turtles)

13 TURTLES  
= (5 captures)

Depart  
Kiki  
Back



Summary of 13 green turtles captured at Palaau, Molokai  
28 Feb.-2 Mar. 1990.

Compiled by

George Balazs, Bill Puleloa, and Ed Medeiros

Inconel tag no.	Carapace length (cm)			Carapace width (cm)		Notation
	standard	notch	curved	Standard	Curved	
28 Feb-1 Mar 1990, Site A (1 turtle)						
Y601,02, 03(H)	74.8	74.6	79.5	56.3	70.5	TMR-eye & tail
1-2 Mar 1990, Site C (12 turtles)						
Y604,05(3-4)	40.5	39.9	43.0	35.1	40.0	--
Y606,07(3-4)	39.2	38.8	41.5	33.3	38.5	White PL
Y608,09(3-4)	42.5	41.9	45.0	--	40.0	--
Y610,11	55.1	54.6	60.0	44.4	53.0	--
Y612,13,14(H)	63.9	63.9	68.0	49.5	60.0	TMR-eyes
Y615,16,18(H)	63.7	63.7	68.0	49.2	60.5	L&R FL's gone
Y619,20,21(H), 22(3-4)	84.4	84.3	90.0	--	--	male?
Y623,24(3-4) 625(H)	80.9	80.8	86.0	59.2	73.0	TMR-RFL & eye
Y626,27,28(H)	78.9	78.9	83.0	62.4	77.5	6 centrals
Y630,31(3-4) 32(H)	60.0	59.9	65.0	49.7	56.5	TMR-eyes & FF's
Y634,35,36(H)	83.9	83.9	88.5	66.7	81.0	TMR-eyes, jaw, FF's
7240(9292) (Y633H)	68.6	68.3	73.5	54.4	66.0	tag recapture
[This turtle originally tagged by Bill Puleloa and Ed Medeiros at Site C on 5/16/84, 5.75 years ago. Measurements: Standard length was 46.5 cm (growth of 3.8 cm/yr) and curved length was 49.0 cm (growth of 4.3 cm/yr.)]						

Notes: Of 13 turtles captured, 5 (38.5%) had tumors.  
3/1/90 Site A seawater = 68°F  
3/2/90 Site C seawater = 72°F

12 newly tagged (5 w/tumors - 41.7%)  
- I already tagged (0 w/tumors)

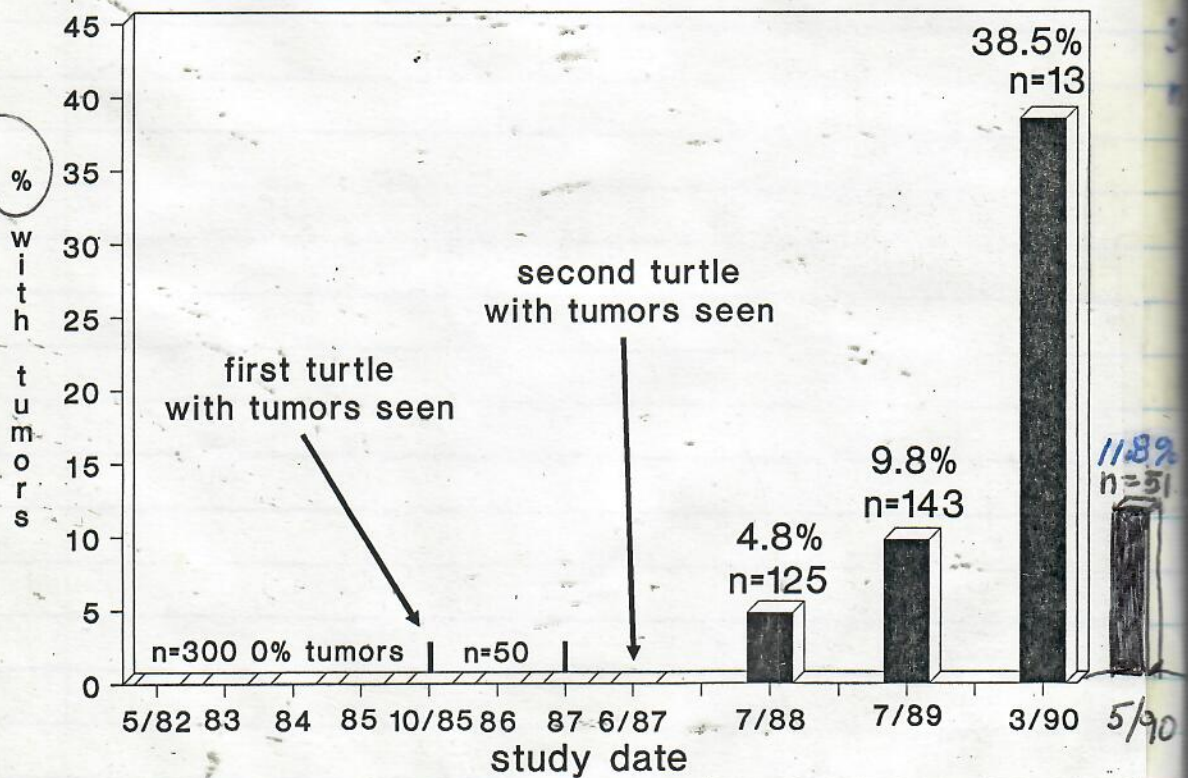


Start of  
Narrative in  
Book 4  
p. 99

3/11  
not randomized  
over

### Green turtles at Palaau, Molokai

(compiled by G. Balazs, W. Puleloa and E. Medeiros)





1 MARCH 90 Thurs. 68°F ~ 20.5°C seawater

SITE = A

fresh water infusion?

7

TAG NOS. SL / NOTCH CURVED COMMENTS

Y-601R 74.8 / 74.6 FL 5 x 70.5 3 TMR #1 Eye  
Y-602L 1 TMR #3 TAIL  
Y-(603LAF) SW = 56.3 curved "bites"  
w/ healed - both HINDS

TMR

Across harbor

Blackish shell w/ yellow flecks

NET moved 1pm TO SITE C

Inshore "C" (68°F) Seawater here also.

(12 CAPTURES Inshore)

2 MARCH 90

① Y604L (EXP) 40.5 x 35.1 43.0 x 40.0  
Y605 3-4R N = 39.9

② Y606L (EXP) 5-39.2 x 33.3  
Y607 3-4L N = 38.8

White Belly

C = 41.5 x 38.5

③ Y608  
Y609 5-42.5 C-45.0 x 40 PINK PATCHES coraline  
3-4R N 41.9



7/90 SITE F

TEMP = 72°F  
Seawater = 72°

SITE = C

TAG NO.	SL/NOTCH	CURVED	COMMENTS
④ y610(R) y611(L)	55.1/54.6 x 44.1	60.0 x 53.0	
⑤ y612(R) y613(L) y614(LH)	TMR 63.9/51 x 49.5	68.0 x 60.0	Both eyes #
⑥ y615(L)3-4 y616(R)3-4 y617 damaged NOT APPLIED y618(RH)	63.7/51 x 49.2	68.0 x 60.5	INITIAL tags missing?? Both have healed notches
⑦ 619(L) 622(L3-4) y620(R) 621(LH)	84.4/84.3 x didn't measure	90.0 x ? ditto	RH ok ??
⑧ 623(L) y624(R3-4) 625(RH)	TMR 80.9/80.8 x 59.2	86.0 x 73.0	Rt flip = tumor Left eye = #
⑨ 626(L) y627(R) 629(RH) 628(LH)	78.9/77 x 62.4	83.0 x 77.5	6 centrals (5th has 2 sections)
⑩ 630(R) y631(L3-4) 632(LH)	TMR 600/59.9 x 49.7	65.0 x 56.5	rt eye = 2 Nos 1's rt flip = 3 NO 1's left flip = 1 No. 1

7240  
only are  
by Orig  
Applic

$$\begin{array}{r} 68.6 \\ 46.5 \\ \hline 22.1 \text{ cm} \end{array}$$

$$\frac{3.84 \text{ cm/yr}}{\text{for } 5.75 \text{ yrs}}$$

3

2 MARCH 1990 PALAU

TAG NO.      SL/NOTCH      CURVED      COMMENTS

(11) RECOVERY

7240 (L) (NOTE: NO tag on SCAP right flipper) 68.6 / 68.3 ← 73.5 x 66.0  
 x 54.4 (NOTCH)

→ 9202 (R) TEST Applied w/ replacement pliers given to Bill

(12) ATTACHED today

Y-633 (LH) 5 YRS 9 MO (5.75) 5/16/84 46.5 x 36.5 = S  
 49.0 x 42.5 = C

(13)

Y-634 (L) (MP) 83.9 / 11 x 66.7 88.5 x 81.0

Y-635 (R)

Y-636 (LHIND)

1/3 length tail  
 3 long claws

LHF

Healed

#3 flipper  
 #3 L ventral  
 #2" L dorsal  
 #2 L mouth  
 #2 R "  
 REP #2  
 #2 R dorsal  
 flipper  
 #1 4 L shoulder  
 #1 RIGHT ventral FF

3/2/90 JAET, CHRISTINE (MIKE'S DAUGHTER), TONY, Bill, ED, ME, ISAAC, KANEACA, & Mike.

Depart dock 11 AM  
 Returned inside reef to pier ~ 6 PM  
 Walter Pitte & son walked out from Shrimp farm

3/2/90  
Friday

Walked in to tidal/mangrove  
while net being pulled up.

Very wide exposed mud flats.

No feces seen, however wind out  
of the north may blow any here  
offshore. Halophila mounds noted.

Also, saw Hat, right where net was set.

Mangrove root seems bare - clean  
of growth. only a few barns noted.

Seems significant to note the  
plastic litter and other debris gets  
caught on Mangroves.

Moved back inside reef -  
dropped bottom lots of times

Flew out on Hawaiian at  
~ 6:15pm.

TAG NO.SL/NOTCHCURVEDCOMMENTS



7 Tagged green turtles resighted at  
Palaau, Molokai, May 8-10, 1990

by  
George H. Balazs, Bill Puleloa and Ed Medieros  
National Marine Fisheries Service Honolulu Laboratory  
2570 Dole Street  
Honolulu, HI 96822-2396

Tag no.	Date orig. tagged	Interval (yr)	<u>Straight length (cm)</u> original 5/90 and (increase)	<u>Curved length (cm)</u> original 5/90 and (increase)
Y369-70	7/89	0.8	45.7 46.7 (1.0)	48.0 49.5 (1.5)
Y412-13	7/89	0.8	75.1 76.5 (1.4)	79.5 81.5 (2.0)
10925-26	7/88	1.8	56.3 59.2 (2.9)	59.5 63.0 (3.5)
Y509-10	7/89	0.8	65.5 67.2 (1.7)	70.5 73.0 (2.5)
Y442-43	7/89	0.8	62.3 63.7 (1.4)	66.0 68.0 (2.0)
9884-85	6/87	2/9	40.6 43.0 (2.4)	43.0 46.0 (3.0)
* 6461-62	10/82	7.6	77.3	68.5 82.0 (13.5)

\* Tumors



7 MAY 90

Depart flight 748 4pm for Molokai  
 Blue dive bag, white suitcase & Igloo cooler.  
 Mon. DOLLAR car rental \$20.95 Geo Metro

PAU HANA \$45

Ed set net today, TIME =  
 SITE = A

Used "Lady Di" w/o motor -

Towed there with other boat - 2 140

8 May 90 Depart Dock 7:45pm -  
 TUES. ~~GUY~~ <sup>Forestry & Wildlife</sup> Bill Puleoia;  
 Mike <sup>Chang</sup> & Tony.

SITE A Net just to the West of harbor  
 channel - Hip deep at low tide  
 Ed says this is same site a  
 last trip 2 months ago.

(76°F) Noted *Halophila* within net.  
 seawater vs 68°F here last trip.  
 Found fecal pellets (cigar shape)  
 on bottom - SAVED. Didn't float.

Brought turtles to boat  
 for measurement / tagging.

Finished bagging fish and  
 left at 1:30pm.

## Need

ASK  
Ogren

- (Report form for turtles tagged)  
 - w/ NMFS Miami Dalton  
 - Tapes in Molokai map in this book  
 - Go Radio/Recorder w/tapes (bring)  
 - Plan Lanai  
 - Dates/SITES/NO. Tagged & Recap.  
 - Peterson INDEX - Molokai Data  
 - Hokadjo set-up  
 - note to Walter Ritte  
 - Scooter

9 May 90 Depart dock 7:30am -

we  
SITA

Same crew.

Arrived at net and found that seaward site had clearly been rolled - lead line over float line twice - Most turtles had escaped - in fact one did so while we were watching. Only 3 turtles found in net.

Net picked up and moved off  
 Biomass PLANT offshore. completed at 2pm.  
 I snorkeled and saw 2 turtles...  
~~near~~ near "drop". (to p. 32)

"LFL" = LEFT FRONT FLIPPER AT MOST PROXIMAL SITE NEXT TO, BUT NOT PIERCING INTO, 1<sup>ST</sup> SCALE.

"RFL" = RIGHT FRONT FLIPPER AT MOST PROXIMAL SITE NEXT TO, BUT NOT INTO, 1<sup>ST</sup> SCALE

"R2S"  
"OR"  
"L2S" } APPLIED PIERCING THROUGH 2<sup>ND</sup> SCALE OF LEFT OR RIGHT FRONT FLIPPER (R=RIGHT; L=LEFT)

"R3S"  
"OR"  
"L3S" } SAME AS ABOVE (R2S, L2S) BUT PIERCING THROUGH 3<sup>RD</sup> SCALE

"R4S"  
"OR"  
"L4S" } SAME AS ABOVE BUT PIERCING THROUGH 4<sup>TH</sup> SCALE

"R1-2S"  
"OR"  
"L1-2S" } APPLIED PIERCING THE WEBBING BETWEEN THE 1<sup>ST</sup> and 2<sup>ND</sup> Scales - Left or RIGHT FRONT FLIPPERS,

"R2-3S"  
"OR"  
"L2-3S" } SAME AS ABOVE BUT PIERCING WEBBING BETWEEN 2<sup>ND</sup> and 3<sup>RD</sup> Scales.

"R3-4S"  
"OR"  
"L3-4S" } SAME AS ABOVE BUT PIERCING WEBBING BETWEEN 3<sup>RD</sup> and 4<sup>TH</sup> Scales

"LH" or "RH" } LEFT hind or RIGHT hind flipper WITH TAG, PIERCING IN GROWN NEXT TO LAGG<sub>5</sub> SCALE,

\* =

TAG

① y685  
y686

Comment  
En  
online  
for ea

② y687  
y688  
y689

③ y690  
y691

④ y369  
y370

⑤ y692  
y693

⑥ y694  
y695  
y696

⑦ y412  
y413

both 5

7/5/89

7/5/89

\* = Tag Recovery = (6)

TMR = (5)

TOTAL = (47)

8 May 90 TUES, pick-up 21

SITE = A

CURVED, cm  
Length x Width

STRAIGHT, cm  
Length / Notch x width

TAG NO.

TAG NO.	STRAIGHT, cm Length / Notch x width	CURVED, cm Length x Width
① y 685 (R)		
y 686 (L)	63.6 x 63.4 x 50.5	68.0 x 60.5

Comments, if any,  
Entered here →  
on line after data  
for each Turtle

② y 687 (R) 78.1 x 77.9 x 60.0 84.0 75.0

y 688 (L)

y 689 (RH)

③ y 690 (L) 43.7 x 43.5 x 34.8 46.0 x 41.5

y 691 (R)

④ y 369 (R)\* 46.7 x 45.9 x 38.0 48.0 49.5 x 45.0

y 370 (L)\* RECOVERY from 7/5/89 SITE A 1ST LATER DRENEL (NOT SEEN 5/8/90!)

⑤ y 692 (L) 42.6 x 42.0 x 35.0 45.0 x 41.5

y 693 (R)

PINK CORALINE CORAL ON shell

⑥ "winged" y 694 (R) 71.8 x 71.5 x 57.5 77.0 x 71.0

y 695 (L) TUMOR: 1cm rt shoulder

y 696 (RH)

⑦ y 412 (R)\* 76.5 x 76.1 x 57.4 81.5 x 72.0

y 413 (L)\* both shiny RECOVERY from 7/5/89 SITE A 79.5 1ST LATER DRENEL (NOT SEEN 5/8/90!)

ADDED y 697 to right hind

V.N.R. L. KATAHIE

Y-701 -

Y-750

KITULO



3 /

\* = TAG Recovery

SITE = A

8 May 90 TUES,  
23

TAG NO.	STRAIGHT, cm <u>Length/Notch</u> x <u>Width</u>	Curved, cm <u>Length</u> x <u>Width</u>
⑧ y 769 (L) y 768 (R) y 770 (RH)	70.4 x 70.4 x 53.8	75.5 x 64.5
⑨ y 751 (L) y 752 (R)	61.4 x 60.9 x 50.4	66.5 x 61.0
⑩ y 753 (R) y 754 (L) ← healed slit on tag site y 755 (RH)	78.3 x 77.9 x 61.4	85.0 x 79.5
⑪ y 756 (L) y 757 (R)	62.2 x 61.9 x 48.1 TUMORS: Both eye = .5cm	66.0 x 58.0
⑫ y 758 (R) y 759 (L)	58.5 x 58.3 x 46.6	63.0 x 55.5
⑬ y 760 (R) y 761 (L)	63.6 x 63.2 x 50.7	68.0 x 62.5
⑭ y 762 (R) y 763 (L)	61.4 x 61.4 x 48.8	66.0 x 58.5
⑮ y 764 (R) y 765 (L)	49.7 x 49.5 x 40.7	53.0 x 47.5
⑯ y 766 (L) y 767 (R)	48.4 x 47.6 x 37.9 pitted	52.0 x 46.0

Balazs 5: molok5.08

Green turtles captured and tagged at  
Palaau, Molokai on May 8-10, 1990  
(\* = tag resighting).

by  
George H. Balazs, Ed Medeiros and Bill Puleloa  
National Marine Fisheries Service Honolulu Laboratory  
2570 Dole Street  
Honolulu, HI 96822-2396

Tag no.	Straight carapace (cm) length	carapace (cm) notch	width	Curved carapace (cm) length	width
<u>Site A, 5/8/90</u>					
Y685, Y686	63.6	63.4	50.5	68.0	60.5
Y687, Y688, Y689	78.1	77.9	60.0	84.0	75.0
Y690, Y691	43.7	43.5	34.8	46.0	41.5
Y369*, Y370*	46.7	45.9	38.0	49.5	45.0
Y692, Y693	42.6	42.0	35.0	45.0	41.5
Y694, Y695, Y696 Tumors	71.8	71.5	57.5	77.0	71.0
Y412*, Y413*, (Y697)	76.5	76.1	57.4	81.5	72.0
Y699, Y698, Y700	70.4	70.4	53.8	75.5	64.5
Y751, Y752	61.4	60.9	50.4	66.5	61.0
Y753, Y754, Y755	78.3	77.9	61.4	85.0	79.5
Y756, Y757 Tumors	62.2	61.9	48.1	66.0	58.0
Y758, Y759	58.5	58.3	46.6	63.0	55.5
Y760, Y761	63.6	63.2	50.7	68.0	62.5
Y762, Y763	61.4	61.4	48.8	66.0	58.5
Y764, Y765	49.7	49.5	40.7	53.0	47.5
Y766, Y767	48.4	47.6	37.9	52.0	46.0
Y769, Y768, Y770	72.1	72.1	56.4	77.0	70.0
Y771, Y772	68.2	68.2	50.9	72.0	64.0
Y773, Y774	65.1	64.8	50.2	70.5	62.0

P.26

\* = TAG Recovery

SITE A

8 May 90  
TUES,

25

<u>TAG NO.</u>	<u>STRAIGHT, cm</u> <u>Length/width x width</u>	<u>Curved</u> <u>Length x width</u>	
(17) y769 (R)			
y768 (L)	72.1 x 72.1 x 56.4	77.0 x 70.0	
y770 (RH)	yellow painted		
(18) y771 (L)	68.2 x 68.2 x 50.9	72.0 x 64.0	yellow painted ↓ (yp)
y772 (R)			
(19) y773 (L)	65.1 x 64.8 x 50.2	70.5 x 62.0	}
y774 (R)			
(20) y775 (R)	60.2 x 60.2 x 47.1	64.5 x 57.0	
y776 (L)			
(21) y777 (L)	62.1 x 62.1 x 49.8	69.0 x 64.0	
y778 (R)			
(22) y779 (R)	65.1 x 65.1 x 51.8	69.0 x 63.5	
y780 (L)			
(23) y781 (L)	62.0 x 62.0 x 51.2	67.0 x 63.0	
y782 (R)			
(24) y783 (L)	52.9 x 52.9 x 42.1	57.0 x 51.0	
y784 (R)			
(25) y785 (L) y786 (R)	66.7 x 66.3 x 51.0	72.0 x 64.0	
(26) y787 (R)	54.8 x 54.6 x 44.7	58.5 x 53.5	
y788 (L)	tumor; eyes, right cluster of 3 } 3cm		



Y773, Y774                      65.1      64.8      50.2                      70.5      62.0

Tag no.	Straight carapace length	carapace notch (cm)	width	Curved carapace length	(cm) width
<u>Site A, 5/8/90, Con't.</u>					
Y775, Y776	60.2	60.2	47.1	64.5	57.0
Y777, Y778	62.1	62.1	49.8	69.0	64.0
Y779, Y780	65.1	65.1	51.8	69.0	63.5
Y781, Y782	62.0	62.0	51.2	67.0	63.0
Y783, Y784	52.9	52.9	42.1	57.0	51.0
Y785, Y786	66.7	66.3	51.0	72.0	64.0
Y787, Y788 Tumors	54.8	54.6	44.7	58.5	53.5
Y790, Y789	63.3	63.0	48.9	68.0	61.0
Y791, Y792	50.2	50.2	40.3	50.4	49.0
10926*, 10925*	59.2	59.2	45.4	63.0	56.0
Y793, Y794	55.9	55.2	43.1	60.0	52.5
Y795, Y796	68.4	68.4	54.9	73.5	68.5
Y510*, Y509*	67.2	66.9	52.4	73.0	65.0
Y797, Y798	55.4	55.3	43.6	59.5	52.0
Y799, Y800	56.6	56.6	44.9	61.0	57.0
Y801, Y802 Tumors	62.0	61.9	49.9	65.5	61.0
Y803, Y804, Y805	70.2	70.2	56.4	76.0	70.0
Y806, Y807, Y808 Tumors	84.6	84.6	63.7	91.5	85.0
Y809, Y810	75.9	75.9	58.5	81.5	71.5
Y811, Y812	56.2	56.0	44.1	60.0	53.5
Y813, Y814	63.2	63.2	52.1	68.0	61.5
Y815, Y816	68.2	68.1	53.4	73.5	63.5

P.30

TAG

(27) Y790

Y789

(28) Y791(L)

(29) 1092

1092

(30) Y793

(31) Y795(L)

(32) Y510(L)

Y509

(33) Y797

(34) Y799(L)

(35) Y801(R)

Y803(L)

Y805

(36) Y806(L)

Y807(L)

Y808

Y808

9/88

7/6/89

\* = Tag recovery

SITE A 8 May 90 TUES

27

TAG No.	Straight, cm Length / notch x width	Curved, cm Length x width
(27) y790 (L)		
y789 (R)	63.3 x 63.0 x 48.9	68.0 x 61.0
(28) y791(L) y792(R)	50.2 x 50.2 x 40.3	50.4 x 49.0
(29) 10926 (R)*	56.3 59.2 x 59.2 x 45.4	59.5 63.0 x 56.0
10925 (L)*	RECOVERY: ↗	ORIGINALLY TAGGED 7/14/88 SITE E
(30) y793(R); y794(L)	55.9 x 55.2 x 43.1	60.0 x 52.5
(31) y795(L); y796(R)	68.4 x 68.4 x 54.9	73.5 x 68.5
(32) y510 (L)*	65.5 65.2 67.2 x 66.9 x 52.4	70.5 73.0 x 65.0
y509 (R)*	RECOVERY ↗	orig Tagged site A 7/6/89 LATER engraved vol seen 5/8/90
(33) y797(L); y798(R)	55.4 x 55.3 x 43.6	59.5 x 52.0
(34) y799(L) y800 (R)	56.6 x 56.6 x 44.9	61.0 x 57.0
(35) y801(R); y802 (L3-4)	62.0 x 61.9 x 49.9	65.5 x 61.0
	Tumor: 4.0 cm central LFL 5 cm right FL	
(36) y803(L); y804 (R)	70.2 x 70.2 x 56.4	76.0 x 70.0
y805(LH)		
(37) y806 (L)	♂, 84.6 x 84.6 x 63.7	91.5 x 85.0
y807 (R3-4)	TUMORS: LEFT EYE Bloody	dorsal
y808 (RH)	2cm 2 on right neck;	15.0 cm 1st flipper Bloody

Site A  
7/5/89

SITE A 40.6/39.6 C43.0 x 40 = 6/4/89

SITE A S 41.3 C44.0 = 7/12/89

76°F Sea water 8 May 90 TUES. 29

Site A

Tag NO.	STRAIGHT, cm	CURVED, cm
	Length/notch x width	Length x Width
(38) y 809 (R)		
y 810 (L)	75.9 x 75.9 x 58.5	81.5 x 71.5
	missing remnant scales on both flipper	
(39) y 811 (R)	56.2 x 56.0 x 44.1	60.0 x 53.5
y 812 (L)		
(40) y 813 (L) y 814 (R)	63.2 x 63.2 x 52.1	68.0 x 61.5
(41) y 815 (L) y 816 (R)	68.2 x 68.1 x 53.4	73.5 x 63.5
(42) y 4423 (L) y 442 (R)	62.3 63.7 x 63.6 x 52.5	66.0 68.0 x 65.5
	RECOVERY ↗	
(43) y 817 (L) y 818 (R)	43.5 x 43.0 x 35.4	46.5 x 40.5
(44) y 819 (L) y 820 (R)	62.1 x 62.1 x 48.1	67.0 x 58.5
(45) y 821 (L) y 822 (R)	65.4 x 65.4 x 48.8	71.0 x 60.0
(46) y 823 (L) y 824 (R)	51.5 x 51.7 x 41.4	55.5 x 51.5
(47) 9884 (L)* 9885 (R)*	43.0 x 42.3 x 35.4	46.0 x 40.5
	RECOVERY	

4th central scute separated into two.

Tag no.	Straight carapace (cm)			Curved carapace (cm)	
	length	carapace notch	width	length	width
<u>Site A, 5/8/90, Con't.</u>					
Y443*, Y442*	63.7	63.6	52.5	68.0	66.5
Y817, Y818	43.5	43.0	35.4	46.5	40.5
Y819, Y820	62.1	62.1	48.1	67.0	58.5
Y821, Y822	65.4	65.4	48.8	71.0	60.0
Y823, Y824	51.5	51.2	41.4	55.5	51.5
9884*, 9885*	43.0	42.3	35.4	46.0	40.5
<u>Site A, 5/9/90</u>					
6462*, 6461*, (Y825) Tumors	77.3	76.9	59.7	82.0	75.5
Y826, Z31	39.7	39.2	35.0	42.0	40.0
Y827, Y828, Z30	72.4	72.3	57.0	77.5	69.5
<u>Site G, 5/10/90</u>					
Y829, Z32	36.8	36.3	29.0	39.0	34.5

TOTAL: 51 Turtles  
 7 Tag resightings (14%)  
 6 With tumors (12%)

Seawater temperature: Site A = 74°F  
 Site G = 78°F

44 newly tagged (5 w/tumors) 11.4%

7 already tagged (1 w/tumors) 14.3%

---

51

---

6

SITE  
 A  
 19/19/82

Tag

6462\*  
 6461\*  
 Y825

Y826 (r)  
 Z31 (L)

Y827 (L)  
 Y828 (L)  
 Z30 (L)

Same site as yesterday 9:10 AM "Sugundo" site #1 9 May 90 WED. 31

Tag No. Straight Length/Notch x width CURVED length x width

\* 6462 (R) 77.3 x 76.9 x 59.7

82.0 x 75.5

6461 (L)

~~68.5~~ 61.0

y825 (LH) added today

Tumors:

swell on both left & right flippers = 2 cm

Small spray of white paint on all three

1 ea Ventral + 1 anterior edge

3 ea ventral

y826 (r) 39.7 x 39.2 x 35.0 (distorted

42.0 x 40.0

#31 (L)

left (cropped)

blue plastic

healed notch 9th marginal left

- clean shell lightish belly



y827 (R) 72.4 x 72.3 x 57.0

77.5 x 69.5

y828 (LH)

#30 (L) blue plastic

10 MAY 90

Thurs. Met Ed at MidNide Inn for  
breakfast - Depart Dock

7am -

Slight S swell up. Arrived  
at site; no turtles seen -  
perhaps 5' deep here (low tide)  
No turtle grass (*Halophila*) - too  
deep or far offshore?  
only 1 very small, sleek turtle  
in net. Lots of fish (Pompano  
though - that's why led fishes  
here. Spent until 11am pulling  
up net "bag", wings (250' each) of  
finer mesh (twine & tangles on the  
bottom more, and gill fish; and  
guide.

Went back in twin 140hp boat, w/  
Mike and Bill Puleloa took flat boat  
on the inside.

Wind up to 20-25 knots.  
Ed felt that guides had been  
untied, allowing turtles to  
escape. I'm not so sure.

Return Hono - FL 729 HA  
depart 1:25 pm; arrive 2:05 pm

Seawater =  
5/9 = 77°F  
5/10 = 78°F  
Tag NO.

G SITE = G  
w/ of  
BIOMASS  
Ed Harbor.  
STRAIGHT

10 May 90  
wed, 33

CURVED

Length/width x width      Length x width

V829 RFL  
(expand)

36.8 / 36.3 x 29.0      39.0 x 34.5

Z32 LFL

5th central split evenly  
longitudinally - continuation of  
seam of postcentrals.  
Clean - w/ mild scalloping.

---

51 TOTAL for 3 days  
7 Tag Recov.  
6 with TMRS.

(13.790)  
(11.890)

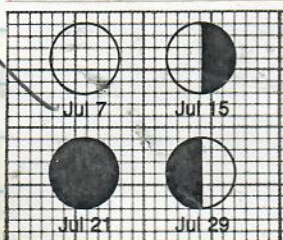
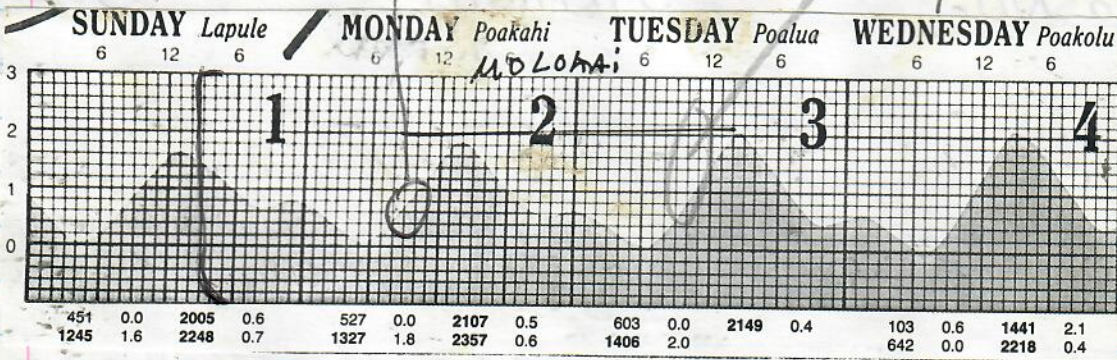


Net set by 2pm  
7/1/90

DAY 1 SITE B (Second Harbor)  
Pickup = 19 Turtles

Site B 17 Turtles  
DAY 2 Pickup

July 90



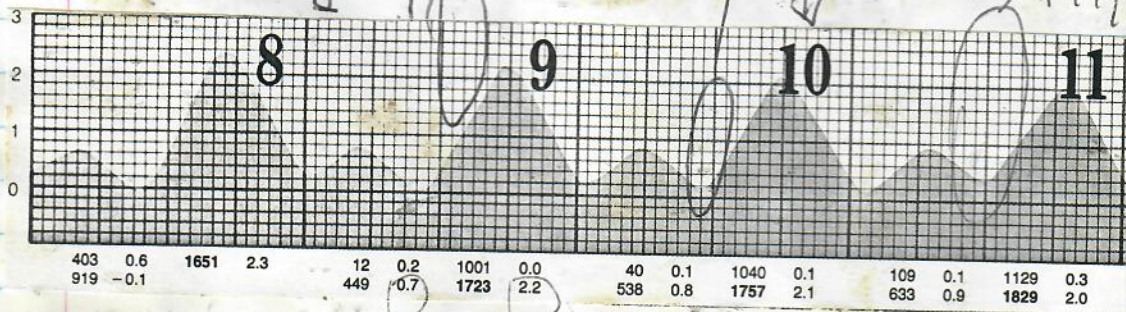
CATEGORIES

- TMR #1 UPTO END of finger
- # 2 Circle by index finger and thumb
- # 3 FIST
- # 4 > FIST

SITE F Pick-up day one 7/9 nearshore 92-95°F  
9am Helicopter sighting  
42 worked-up and released near shore

SITE F AT Net 83°F  
13 worked up and released at Net

SITE F 81°F  
26 (25 + 1 hand outside) + 1 yellow 1 Blue



Monday  
40 Turtles  
+ 2 hand captures  
near net. + 1 unclassified

wed

19 Turtles  
Tag N  
E-917  
E-922  
3...  
REC  
727(L)  
725(L)  
(KODS)  
4  
E-94  
Y-918  
5  
E-9  
Y-910  
6  
E-96  
Y9210

19 TURTLES - DAY 1 Pickup SITE (B) 2 JULY 90  
 6 TUMORS (32%)  
 3 Recover: (16%)  
 Wed 35

Tog NO.	STRAIGHT	width	CURVED
	Length/notch x <del>curved</del>		Length x width
Z91 LFL			
Y914 RFL	70.7	70.3 55	78 71

Y915 (I) # TMR both eyes; R vent. shoulder, #2 L vent. shoulder  
 RHIND

Y916 likely applied

(2) Y-917 (R) 55.5 x 54.8 x 43.9 60.0 x 56.0

Z-92 (L) TMR #1 = left eye (2 ea) release Harbor

(3) REC → 63.0 x 62.8 x 49.6 68.0 x 60.0

727 (L) ★ Recovery

728 (R) TMR #1 = rt eye

(ADDED Z-93 → L3-4) LFF tip narrow (release House)

(4) 54.6 x 54.4 x 42.7 58.0 x 52.0

Z-94 (L)  
 Y-918 (R) released "house" - clean

(5) 59.2 x 59.0 x 46.4 64.0 x 55.0

Z-95 (L)

Y-919 (R) Y-920 (LH) - Clean release Face of house

(6) 61.9 x 61.8 x 47.1 67.0 x 60.0

Z-96 (L) "tapered/pointy posterior"

Y921 (R) TMR

Y921 (R) #1 left eye released "Potato Hill" WEST of

1 July 90 Sunday - Ed set net at Site "B"  
 Second Harbor completed by 2pm.

2 July 90 FL 700 6:40 am to Molokai  
 Monday AVIS - #21.95 Nissan  
 To Wharf - Depart w/ Bill & Mike  
 and Ed only by 8:45 am

- Very little south swell
  - Calm - no wind where we are,  
 but radio reported 15-30kts.
- Boat in harbor "sitting on" net school  
 of Akule. Small boat seen in  
 Mangroves. Net set in ~ 1/4 mi  
 of water. Bottom not very muddy,  
 but during our activities water  
 did not become murky as often  
 happens.

17 turtles taken from net -  
 when net reopened, 3 more seen  
 going in (2 of these captured).

Two turtles found under "laid-down"  
 portion of net stressed from  
 forced submergence. One flapped  
 up! However, breath and movement  
 seen when taken to the surface.

Turtles worked up while returning to  
 dock - released along the way. Motor  
 flipped off into the water. Plug taken out  
 and BMB squeezed. Restarted and  
 returned to Dock by 1230 pm.

SITE 3

Tag NO.

①

②

E-97

Y-922

③

E-98

Y-923

④

E-99

Y-924

⑤

E-100

Y-925

⑥

E-101

Y-926

⑦

E-102

Y-927

⑧

E-103

Y-928

⑨

E-104

Y-929

⑩

E-105

Y-930

SITE B

all white  
painted

78°F

2 JULY 90  
pick up 37

Tag No.

STRAIGHT

CURVED

Length/notch x WidthLength x width

⑦

Z-97(L)

40.2 x 39.7 x 32.4

WEST of, 42.0 x 38.5

Y-922(R)

"clean"; released "Potato Hill" WEST of

⑧

Z-98(L)

46.0 x 45.8 x 37.0

50.0 x 44.5

Y-923(R)

clean; released "Potato Hill" WEST of

⑨

Z-99(L)

51.0 x 50.8 x 39.4

55.0 x 48.5

Y-924(R)

clean; released "P/H" WEST of (ENGINE OVERBLD.)

⑩

Z-100(L)

83.1 x 82.7 x 65.5

90.0 x 85.5

Y-925(R)

clean; released "P/H"

Y-926(RH)

WEST of

⑪

Z-86(L)

57.1 x 56.8 x 43.5

61.0 x 50.5

Y-927(R)

clean; released "P/H" WEST of

⑫

Z-87(L)

56.6 x 56.6 x 46.0

61.0 x 55.0

Y-928(R)

-healed notch - right posterior

-clean; released P/H WEST of

⑬

Z-88(L)

54.7 x 54.6 x 42.2

59.5

59.5 x 53.0

Y-929(R)

clean; released P/H WEST of

25 July 90 Monday - 4pm Drive to east end -  
Near Puakoo

Peace Corp training site = KUPATE  
~ 16.5 miles of Maui <sup>DROKE Wilson stream</sup>  
reported this site for large  
turtles - ALANCASTRE <sup>Bothers</sup>  
Mile 18 = double reef seen  
deep inside?

36 Green turtles captured and tagged  
at Site B, Palaau, Molokai, July 2-3, 1990  
(\* = tag resighting)

George Balazs, Ed Medeiros, and Bill Puleloa

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
Y914, Y915, Z91 tumors	70.7	70.3	55.0	78.0	71.0
Y916, Y917 Z92 tumors	55.5	54.8	43.9	60.0	56.0
*7227, 7228 Z93 tumors	63.0	62.8	49.6	68.0	60.0
Y918, Z94	54.6	54.4	42.7	58.0	52.0
Y919, Y920 Z95	59.2	59.0	46.4	64.0	55.0
Y921, Z96 tumors	61.9	61.8	47.1	67.0	60.0
Y922, Z97	40.2	39.7	32.4	42.0	38.5
Y923, Z98	46.0	45.8	37.0	50.0	44.5
Y924, Z99	51.0	50.8	39.4	55.0	48.5
Y925, Y926, Z100	83.1	82.7	65.5	90.0	85.5
Y927, Z86	57.1	56.8	43.5	61.0	50.5
Y928, Z87	56.6	56.6	46.0	61.0	55.0
Y929, Z88	54.7	54.6	42.2	59.5	53.0
Y930, Z89	53.0	52.7	40.6	57.0	48.0
Y931, Z90	51.5	49.8	40.4	56.0	50.5
Y932, Y933 Z161 tumors	71.1	70.9	53.6	76.5	65.5

see p 42

SITE = B

2 July 1990 pickup

39

TAG NO	STRAIGHT length/notch x width	CURVED Length x width
--------	----------------------------------	--------------------------

(14)

Z-89 (L) 53.0 x 42.7 x 40.6

57.0 x 48.0

Y-930 (R) clean, released before Bio. (restart engine!)

(15)

51.5 x 49.8 x 40.4

56.0 x 50.5

Z-90 (L)

Y-931 (R)

PLASTRON UP  
animal under net; recovered okay  
released last: at "red hill" but  
between ~~and~~ and P/H

(16)

71.1  
70.1 x 70.9 x 53.6

76.5 x 65.5

Z-161 (L)

Y-932 (R)

Y-933 (RH)

TMR

#1 on both eyes

deformed nostrils - release Biomax

REC (17) = RECOVERY!!

Y-429 (L)

61.0 x 52.5

Y-428 (R)

56.9 x 56.5 x 42.5

(Z-162)

(L3-4) = added today released P/H  
?? bumps on 2nd eyelids

(18)

53.7 x 53.5 x 43.7

57.5 x 52.0

Z-163 (L)

Y-934 (R)

clean, released P/H

REC (19)

RECOVERY!!

- POST central deformed/short -

10931 (L)

TMR 56.6 x ... x 46.8

61.0 x 58.5

10932 (R)

TMR #1 nt eye -

released P/H

(Z-164 (L3-4) = added today)

40

SITE B

3 JULY 90

Seawater 77

DAY 2 = 17 TURTLES

7 TUMORS (41.2%)

4 RECOVERIES (23.5%)

7/3/90 Depart Dock 7 AM  
w/ keolu KALANA, Chad  
Bill P., Mike, and DJ.

Again - no sharks or rays in net.  
No turtle stunned under net today.

17 Captures + 298 white faint  
gran yesterday

TUES 7/3/90 returned inside reef - 1:30 pm arrival  
at dock!

Depart Molokai FL 757 3:05 pm → 3:30

3 JULY 90 SITE B (second day - net

TUESDAY - ALL SPRAYED  
BLUE

Same place)

41

TAG NO.

STRAIGHT

CURVED

Length/notch/width

Length x Width

①

Y-935 (R)

58.9 x 58.5 x 47.7

63.0 x 56.5

Z-165 (L)

clean; grey bump on left shoulder??

\* ②

8520 (L)

62.4 x 61.6 x 47.3

67.5 x 58.0

8519 (R)

RECOVERY!

(Z-166 (R 3-4) ← added today)

clean

\* ③

Y-452 (R)

70.1 x 69.9 x 55.7

76.0 x 68.0

Y-453 (L)

RECOVERY!

Z-167 (L 3)

small bump on left eye??

\* ④

10941 (L)

71.9 x 71.6 x 54.5

77.0 x 68.0

10940 (R)

RECOVERY!

10942 (L 4)

Z-168 (L 3)

TMR

#1 on both eyes

⑤

Y-936 (R)

55.9 x 55.5 x 43.6

60.0 x 52.5

Z-169

TMR

#1 on both eye; #1 on L shoulder, 2 #1 on right shoulder  
#1 on right jaw hinge

⑥

Y-937 (R)

68.3 x 68.3 x 53.3

75.5 x 66.5

Z-170 (L)

Y-938 (RH)

clean!

⑦

Y-939 (R)

68.7 x 68.6 x 54.4

73.0 x 66.5

Y-940 (RH)

Z-160 (L) ← UPSIDE DOWN!

TMR #1 on left eye;



Tag no.	Straight carapace (cm)			Curved carapace (cm)	
	Length	Notch	Width	Length	Width
*Y428, Y429 (Z162)	56.9	56.5	42.5	61.0	52.5
Y934, Z163	53.7	53.5	43.7	57.5	52.0
*10931, 10932 (Z164) tumors	56.6	--	46.8	61.0	58.5
Y935, Z165	58.9	58.5	47.7	63.0	56.5
*8519, 8520 (Z166)	62.4	61.6	47.3	67.5	58.0
*Y452, Y453 (Z167)	70.1	69.9	55.7	76.0	68.0
*10940, 10941 10942 tumors	71.9	71.6	54.5	77.0	68.0
Y936, Z169 tumors	55.9	55.5	43.6	60.0	52.5
Y937, Y938, Z170	68.3	68.3	53.3	75.5	66.5
Y939, Y940 Z160 tumors	68.7	68.6	54.4	73.0	66.5
Y941, Y942, Z159	69.1	68.9	53.2	74.0	66.5
Y943, Z158	53.5	53.4	42.7	58.0	50.0
Y944, Z157 tumors	55.4	54.8	41.9	59.0	52.5
Y945, Z156	47.8	47.3	40.0	51.5	47.0
Y946, Z155	63.2	63.2	50.1	68.5	63.5
Y947, Z154 tumors	51.7	51.5	39.0	56.0	50.0
*7239, 9564 (Z153)	56.7	--	45.4	61.0	50.0

see p 48

3 JULY 90 SITE B  
TUES.

43

TAG NO.	STRAIGHT		Curved
	Length	notch / width	Length x Width
⑧ y-941 (R) y-942 (RH) z-159 (L)	69.1 x 68.9 x 53.2	clean	74.0 x 66.5
⑨ y-943 (R) z-158 (L)	53.8 x 53.4 x 42.7	bump? right eye	58.0 x 50.0
⑩ y-944 (R) z-157 (L)	55.4 x 54.8 x 41.9	TMR <sup>#1</sup> tumor inside mouth hinges, both sides	59.0 x 52.5
⑪ z-156 (L) y-945 (R)	<del>TMR</del> 47.8 x 47.3 x 40.0	pink left inside jaw hinge - TMR (NOT COUNTED AS ONE)	51.5 x 47.0 BUT
⑫ y-946 (R) z-155 (L)	63.2 x 63.2 x 50.1	clean	68.5 x 63.5
⑬ y-947 (L) z-154 (R3-4)	51.7 x 51.5 x 39.0	starting tumor on rFL tag site. <sup>TMR</sup> so NO TAG put here	56.0 x 50.0
*⑭ 7239 (L) 9564 (R) z-153 (L3)	56.7 x deformed x 45.4	Recovery → also right side	61.0 x 55.5

done Need 2101 - 2149 for next trip to Molokai

done - TAGS, pliers, tape for Bill  
 X-85P - X92B 7/10/90 to B

- Different colored paint (2 or 3)

- Lysol

need - TMR strand record from Bill - Wave Crest  
 date =

~~no!~~ Aquarium turtle to Molokai

- 146.94 ± ? Maui Repeater

3 JULY SITE B  
TUESDAY

MARSHALL ISLAND TAGS FOR BILL!!!  
plus PLASTIC MEASURING TAPE

TAG NO.

STRAIGHT  
Length/Notch/width

CURVED  
Length x width

(15)

y-948 (R) 49.0 x 48.9 x 41.1  
z-152 (L) clean

52.5 x 47.0

Notch deformed previous Broken?

(16)

47.8 x 47.4 x 38.7

50.0 x 45.0

y-949 (R)  
z-151

TMRS

#2 rt. eye #1 left eye  
#4 rt HF 2-#1 LHF; 1-#2 LHF  
#2 on top of NEUR

(17)

51.7 x 51.5 x 42.5

55.0 x 48.0

y-950 (L)  
z-150 (R34)

TMRS

1-No2 rt Hind  
1-No1 tail  
No.2 left eye  
No.1 rt eye  
3-No.1 LFF  
2-No.2 RFF  
1-No.2 NEUR  
3-No.1 "  
No.1 (plastron) at base of neck

2-3 JULY 90  
SITE B

36 Turtles

13 w/Tumors (36.19%)

7 Tag Recov. (19.49%)

29 newly tagged (10 w/Tumors) 34.59%

7 already tagged (3 w/Tumors) 42.99%

9 JULY 1990 Monday  
 HAWAIIANFL/700 GHB & GCB

6:40 am

Arrive 7:15 am - Bob JUSTMAN  
 DOLLAR Rentacar. PILOT of Dash 7

Drove to Ed's House.  
 Proceeded to Paloa Rd.

Gene - Bee keeper.

→ need photo of Nikki.

Note new extensive fence for  
 "Game reserve" hunting.

Arrived at site, right across  
 from Petroglyph boulder,  
 much clearing of heave from  
 Biomass (now stopped).

Ed had set net Sunday

Tide very low - difficulty  
 taking boat out to net, which  
 is to the East, ~1/2 mile.

Noted 6-10 turtles along the  
 way in very shallow water. I  
 caught one by hand, Dart  
 did too.

All turtles removed from net  
 into boat, and boat taken back

7/9/90

NAME OF MOLOKAI RANCH

47

Monday Seawater at net = 7/10 = 83°F

to just off Petroglyph site.  
All turtles worked up here by  
GHB, GCB, Mike Baker, Nancy Baker,  
and Bill Puleoa. Everyone else  
left.  
We departed ~ 4pm.

♀ Female immature  
Turtle

7/10 Necropsy on crushed turtle:  
from 7/9

Held overnight  
7/9 w/ tube  
in glothis -  
but dead  
in the morning

7-10-90 Palau stomach

S = 45.2  
notch =

<u>Amansia glomerata</u>	60%
<u>Liagora sp.</u>	20
<u>Halophila ovalis</u>	10
<u>Actinotrichia fragilis</u>	5
<u>Rhodymenia sp. (?)</u>	5

C = 47.5 x 42.0

- #3 stomach amansia all amansia
- #2 stomach halophila
- #1 stomach hal., aman., red soft  
fil.

discrete areas of Halophila,  
and Amansia -  
NOT ALL mixed together.

10% Formalin sample of freshest  
Halophila, Amansia, flat red pieces  
and dry, spongy red filament w/ whitish  
tone - for IB by Dennis.

Tag no.	Straight carapace (cm)			Curved carapace (cm)	
	Length	Notch	Width	Length	Width
Y948, Z152	49.0	48.9	41.1	52.5	47.0
Y949, Z151	47.8	47.4	38.7	50.0	45.0
Y950, Z150	51.7	51.5	42.5	55.0	48.0

Total: 36 turtles  
 13 (36.1%) with tumors  
 7 (19.4%) tag resighting

Seawater temperature = 78° F

36grnt.ghb

see p. 116

9 JULY 1990

DAY 1

Monday

SITE  
FPACMAN  
Bullpen

49

TAG No.

STRAIGHT

ALL YELLOW PAINT

CURVED

Ruined

Length

notch

width

Length

x width

①

~~Y-951(R)~~

Y-952(R)

43.4 x 43.0 x 34.2

47.5 x 41.0

Z-149(L)

-clean

②

Y-953(R)

46.7 x 46.5 x 37.9

49.5 x 43.5

Z-148(L)

-clean

③

Y-954(R)

46.5 x 46.3 x 37.2

49.0 x 42.0

Y-955(LH)

-LFE missing &amp; completely-healed

④

Y-956(R)

56.5 x 56.5 x 43.5

59.5 x 52.0

Z-147(L)

Tumors: No. 1 rff; #1 on both eyes;

⑤

Y-957(R)

50.4 x 50.2 x 39.7

53.5 x 48.0

Z-146(L)

-clean

⑥

Y-958(R)

48.6 x 48.4 x 37.9

51.0 x 46.0

Z-145(L3)

T= #1 left eye; 7 #1 LFF;

⑦

Y-959(R)

48.9 x 48.7 x 39.1

52.0 x 46.0

Z-144(L)

-clean

⑧

Y-960(R)

47.0 x 46.9 x 37.7

50.0 x 45.0

Z-143(L)

clean

⑨

Y-961(R)

49.4 x 48.9 x 39.9

52.5 x 45.5

Z-142(L)

clean



9 JULY 90 yellow paint SITE F

51

DAY 1

TAG NO.

STRAIGHT  
length notch width

CURVED  
length x width

(10)

Y-962(R)

63.6 x 63.5 x 51.7

67.5 x 62.0

Z-141(L)

Y-963(LH)

(11)

8521(R)

48.5 x 48.3 x 37.4

51.5 x 45.5

8522(L) \*\* RECOVERY - clean

Z-140(L3-4) = added. today

(12)

Y-964(R)

51.0 x 50.6 x 40.5

54.5 x 47.9

Z-139(L) <sup>upside</sup> <sub>down</sub> - clean

(13)

Y-965(R)

49.2 x 48.8 x 40.5

Z-138(L) - clean

(14)

Y-966(R)

57.0 x 56.9 x 44.4

62.0 x 54.0

Z-137(L) T #1 L. eye #2 Tmr. neck

(15)

Y-967(R)

54.0 x 54.0 x 40.9

58.0 x 52.0

Z-136(L) - clean

(16)

Y-968(R)

41.9 x 41.7 x 32.9

44.5 x 39.5

Z-135(L) \*\* RECOVERY - clean

(17)

Y818(R)

43.8 x 43.6 x 34.9

47.0 x 41.0

Y817(L) - clean

9 JULY 1990 DAY 1 SITE F

TAG NO.	STRAIGHT Length notch width	CURVED Length x width
---------	--------------------------------	--------------------------

(18)	38.1 x 37.7 x 30.5	40.5 x 36.5
------	--------------------	-------------

Y-969 (R) blind left eye. ~~running~~  
 Z-134 (L) HAND CAPTURED BY GHB near net in kneedeep water - Halophila area.

(19)	67.5 x 67.1 x 52.7	73.0 x 67.0
------	--------------------	-------------

Z-133 (L) clean

Y-971 (RH)

(20)	65.34 (R) <del>xx Recovery</del> 72.5 x 72.3 x 55.6	78.0 x 74.5
------	---	-------------

65.33 (L) ~~xx Recovery~~  
 (3.9 L) Z-132 added TMR #1 RFL; #1 dorsal neck; 2 #2 R. eye

(21)	Y-972 (R) 50.7 x 50.6 x 41.6	54.0 x 49.0
------	------------------------------	-------------

Z-131 (L) - clean

(22)	Y-973 (R) 67.8 x 67.4 x 54.0	73.0 x 64.5
------	------------------------------	-------------

Z-130 (L) 4<sup>th</sup> central ÷ into 3 plates; 5 laterals on left

(23)	Y-974 (R) 47.3 x 47.3 x 38.4	
	Z-129 (L) - clean	50.5 x 44.5

(24)	Y-975 (R) <sup>upside down</sup> 65.4 x 65.0 x 57.4	70.5 x 63.0
------	---	-------------

Z-128 (L) TMR #2 on LFF;

(25)	Y-976 (R) 52.5 x 52.3 x 40.3	56.5 x 49.5
------	------------------------------	-------------

Z-127 (L) - clean

(26)	Y-977 (R) 53.9 x 53.8 x 41.9	58.5 x 51.5
------	------------------------------	-------------

Z-126 (L) - clean

9 JULY 90  
DAY 1

Straight SITE F

Carved 55

TAG No. ~~Y-978~~ <sup>removed</sup>  
<sub>discarded</sub>

LENGTH X NOTCH X WIDTH

Length X WIDTH

53.8 X 53.1 X 42.1

57.0 X 50.5

Y-979 (R) Z-125 (L) - clean -

(27) (28)

7793 (R) 57.4 X 57.4 X 44.1

61.5 X 51.5

7792 (L) \* RECOVERY \* clean !!

Z-124 (L3-4) added today.

(29)

Y-980 (R) 52.4 X 52.2 X 42.5

56.0 X 50.0

Z-123 (L) TMR:  
L#1 eye neck; 2-#1 nt. neck

(30)

Y-981 (R) 56.2 X 56.0 X 43.1

60.0 X 53.5

Z-122 (L) <sup>←</sup> upside down ? bump rt. eye.

Y-982 (LH)

(31)

Y-983 (R) 46.9 X 46.6 X 35.6

50.0 X 43.0

Z-121 (L) - clean -

(32)

Y-984 (R) 57.9 X 57.7 X 41.7

57.0 X 49.0

Z-120 (L) - clean -

(33)

Y-985 (R) 61.9 X 61.9 X 50.0

67.5 X 62.0

Z-119 (L) - clean -

(34)

Y-986 (R) 61.7 X 61.6 X 46.6

65.5 X 55.5

Z-118 (L) - clean -

(35)

Y-987 (R) 51.3 X 51.7 X 40.4

55.0 X 49.0

Z-117 (L) - clean -

Needs

Hazel/Waughtan?

- ACE Atlas of Coastal Molokai
- Turtles off "Outrigger Hotel" <sup>1st floor sightings</sup> "5 at a time" <sub>via TRACY</sub>  
"Life guards" in yellow boats  
tell people to leave them alone?
- Jerome Kalama - Spent many years in Waikiki, but never heard of them along there.
- Snorkel/dive areas of
- ~~sent~~ Kuiff Lester 200' 6" stretched address: Star Route 229A mesh mono gill net -  
Kaunakakai waist deep water -
- ~~sent~~ Map of sites to bill Catches small turtles.

- Need East End Assessment of turtles for tumors.

Photo to father <sup>Gene Nicoya</sup> of Nikki - Bee keeper

- bills' data <sup>Gene</sup> on bulker catch rates  
Baker - Box 12146

- Turtles with lots of parasite eggs develop TMR  
~~sent~~ Maui Repeater 146,94 when physically injured?  
- Kela photo

81 turtles 10 Rec 12.3%	42 Turtles
16 TMR 19.6%	4 Recovery (10%)
	10 w/TUMORS (24%)

Tax. No.

(36)

Y-988

Z-116

(37)

Y-989

Z-115

(38)

Y-990

Y-991

(39)

Y-992

Y-993

(40)

Y-994

Y-995

Z-114

(41)

Y-996

Z-113

(42)

Y-997

Y-998

Y-999

Z-112

9 July 90 SITE = F  
Straight

TEMP = 92°F  
4:30 PM Curved 57

TMR No.

DAY 1

Length x Notch x Width

LENGTH X WIDTH

(36)

57.9 x 57.8 x 44.1

95°F  
Right by  
Shore  
~ 1 PM

62.5 x 55.5

Y-988(R)

Z-116(L) - upside down - clean -

(37)

55.0 x 55.0 x 44.4

59.0 x 53.0

Y-989(R)

TMR #1 nt. eye

Z-115(L)

(38)

Y-990(R) 70.4 x 70.2 x 52.4

76.5 x 65.5

Y-991(L)

- clean -

(39)

71.5 x 71.5 x 54.4

77.0 x 65.0

Y-992(R)

TMR No. 1 on lt eye, #1 on rt. eye

Y-993(L)

2-#2 nt neck; #1 RFF; #1 rt. jaw slightly elongated tail  
#2 RH

(40)

86.5 x 86.4 x 66.9

93.0 x 80.5

Y-994(R)

TMR No. 4 RFF; #2 both eyes; #3 LFF

Y-995(L)

2-#2 LFF; 4 #2 RFF; 2 #2 neck + many #1's

Z-114(L3-4)

definitely ♂ "MATURING" MALE  
TAIL NOT FULL SIZE

(41)

57.6 x 57.5 x 45.7

62.5 x 56.0

Y-996(R)

- clean -

Z-113(L)

(42)

74.8 x 74.6 x 59.9

81.5 x 74.5

Y-997(R)

TMR #1 LFF; 2 #1 lt eye  
right

Y-998(L)

Y-999(RH)

END OF DAY 1

82° F seawater at site

10 July 90 Tuesday F.

Depart from  
Petroglyph site  
at 9:30 AM

All worked up and  
released by net at ~ 11 AM.

after driving out Palawan road.

Chris and I walked along the  
beach, then walked out to net  
site F.

2 dead cows decomposing  
seen along the beach.

A 3<sup>rd</sup> one seen at 110-120 ft.  
west to start of mangroves/fish pond.

Turtle laying 1/2 exposed on coral  
head seen and captured right next  
to net.

(1+) 12 turtles taken from net.

As yesterday, amount of fish (mostly  
weke) filled (only) fish well ~ 1/2 full.

10 JUL  
DATE 2  
TAG No.

①

Z-111

N-326

②

Z-112c

N-327

③

Z-110c

N-328

④

N-329

Z-109

⑤

N-330

Z-108

N-330

⑥

11-944

Z-944

(LEFF 34)

⑦

N-333

Z-10

N-333

⑧

N-334

Z-10

10 JULY 90 STRAIGHT SITE F CURVED Blue PAINT 59

DATE 2/ pickup L x N x W L x W

AM.

① 46.8 x 46.6 x 38.4 50.0 x 49.0

Z-111 (L)  
N-326 (R) - clean

②

Z-112 (L) 42.9 x 42.7 x 34.9 45.5 x 40.0

N-327 (R) 10-11<sup>th</sup> way right - miss/healed  
small bump right eye?

③

Z-110 (L) 39.6 x 39.2 x 34.8 41.0 x 40.0

N-328 (R) - clean

④

N-329 (R) 49.1 x 48.8 x 38.2 52.0 x 46.0

Z-109 (L) - clean

⑤

N-331 (RH) 65.5 x 65.3 x 51.0 70.0 x 60.5

Z-105 (L) - clean

N-330 (R)

⑥ \* Recovery

N-9445 (R) 54.8 x 54.6 x 43.8 59.0 x 51.0

Z-9444 (L) - clean

(LFF 34) Z-107

⑦

N-332 (R) 66.2 x 66.0 x 50.9 70.5 x 64.0

Z-106 upside down - clean

N-333 (LH)

⑧

N-334 (R) 60.0 x 60.0 x 47.6 63.0 x 57.0

Z-105 (L) - clean

10 July 90 Dinner at Fred Bicoy's house (ME)  
 Fred confirmed that no bumps, tumors were ever seen by him or turtles he caught in past years. Also none his father Pethoella Bicoy had caught since coming to Aolokai in ~1919. However, 1 turtle was seen that had been shot (wounded) in which "overgrowth" had occurred. Were these fibrosarcomas?

There is a "creek" off Milton Kaine house <sup>just</sup> east of Kawalo, where large turtles all sleep together. Also "holes" off "Our Lady of Sorrows" Catholic Church - Reef goes out 1 mile



10 JULY 90

PICK-UP DAY 2, SITE F  
STRAIGHT CURVED

61

Taq No.

L x ~~Width~~ x W

Len x W

Seawater  
81°F

(9)

N-9440 (R)

63.7 x 63.5 x 51.1

68.0 x 61.0

Z-9441 (L)

B.4 (L) Z-104 (L) added today clean

(10)

N-335 (R)

64.3 x 64.3 x 49.0

70.0 x 61.0

Z-103 upside down very small TMR left eye

(11)

N-336 (R)

62.2 x 62.0 x 50.5

65.5 x 58.0

Z-102 (L) TMR #1 left neck; #1 right eye left  
Z #1 on tail; #1 left hind also possible regression

N338

(12)

N-337 (R)

58.1 x 48.1 no notch

63.0 x 58.5

Z-101 (L) PCS & 10-11<sup>th</sup> Right missing

upside down deflowered for measurement

(13)

N-339 (R)

N-340 (L)

55.8 x 55.7 x 44.6

60.5 x 52.5

clean

13 total (1 hand capture  
one way out on nearby coral head)  
2 w/Tumors (1590)  
2 Recoveries (1590)

11 July 1990 Wednesday

Depart out Palaau road  
 9:15am - Young Axis deer  
 ran all along newly  
 fenced "game preserve"  
 Drive to Warikane site  
 looks about the same as year  
 ago.

Saw perhaps 10+ small  
 turtles on the way to net  
 site. I caught one - and  
 like yesterday, blind in  
 left eye. - Poked out?

Tagle net across here  
 and continuously wanted  
 would probably be  
 very efficient.

Worked up turtles at  
 net site and released  
 without point.

Picked up net afterwards  
 and came in at 11:10 PM.  
 Returned to Pan Hara - 3:30pm.

12 July 90 → Drove to Kalampaga overlook  
 Depart 703 (Hawaii) 8:03a

Day 3 SITE F 11 July 90

STRAIGHT

Carven

63

Tag no.

L x N x W

L x W

①

N-341(R)

65.4 x 65.3 x 53.9

70.0 x 65.5

Z-171(L)

suspicious bump on left eye?

N-342(RH)

②

N-343(R)

61.6 x 61.6 x 47.2

65.5 x 56.0

Z-172 (3-5, left) #2 patch (LFL); #1 left shoulder

N-344 ruined small #1 left eye

TMA

N-345(LH)

③

~~Recovery~~

N-347(R)

72.1 x 71.8 x 58.0

77.5 x 71.0

N-346(L) new

- clean

Z-173 (3-4 left) new

④

N-347(R)

61.8 x 61.6 x 45.8

66.5 x 59.5

Z-174(L)

clean

⑤

~~Recovery~~

7938 (R)

68.0 x 67.8 x 52.6

72.5 x 64.5

7937(L)

TMR

#1 right flipper (rfl); #1 right neck

Z-175 (L 3-4) new

at TAG site

⑥

N-348(R)

58.7 x 57.9 x 46.7

63.0 x 56.5

Z-176(L)

clean

⑦

N-349(R)

65.8 x 65.6 x 51.2

71.0 x 62.5

Z-177(L)

clean

N-350(RH)