

MOLOKAI

4

BALAZS
1988-1990

P. 119

DLNR BULLPEN

* TAG Summary
ON BACK COVER
TYPED DATA p. 106 -

11 - 15 JULY 1988 p. 9 -
+ 106-111

ED MEDEIROS Bull Pen PALAAN
SITE A (Days 1 & 2)

SITE E (Days 3 & 4)

125 INDIVIDUAL ^{green} TURTLES CAPTURED
of which 16 LONGTERM RECOVERIES (12.8%)

+ 1 juvenile hawksbill

6 w/ Tumors seen out of range
125 greens (SL = 53.3 - 93.9)
(4.8%)

8-9 AUGUST 88 p. 61 -

MOLOKAI -
PRESENTATION TO
RITE MEETING
"OUR REEF"

+ SITE VISIT w/ PULELOA
TO MOOMOO MI

5-7 JULY 1989

143 green turtle individuals
captured, of which 12 Molokai
Longterm recaptures (8.4%)



14 w/ tumors seen out of 143 greens

Composition Book • 9 3/4 in. x 7 1/2 in. (9.8%)

ED Medeiros Bull Pen PALAAN
P. 68-93 (1500)

(SITE "A" Days 1 & 2)
(NEW SITE "E" Day 3)

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

ESSELTE

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G.H. BALAZS

ED → 553-5702 Medeiros
Bill → office → 567-6696
Home → 553-3778
Hotel Molokai - from oahu 531-4004
Molokai - 553-5347

Wed. 7/13 - Lisa Uttal

ED Medeiros
P.O. Box 1216
Kaunakakai, Molokai
96748

28 FEB - 2 MARCH 1990 (2 NIGHTS)

P. 98 ED-BULLPEN PALAAU
Narrative + data Book #5
(March 1st = Y-601,02,03)
(March 2nd = Y604 - Y636 + 9202)

See p. 119

DLNR Bullpen Limits

New Moon

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

PORTS	Hrs. Mins.		PORTS	Hrs. Mins.	
	+	-		+	-
HANAIEI BAY, KAUAI	-1	28	KAHULUI, MAUI	-1	53
NAWILIWILI BAY, KAUAI	-0	27	KIHEI, MAALAEA BAY,	-0	01
PORT ALLEN, KAUAI	-0	36	MAUI	-0	04
HALEIWA, OAHU	-1	02	HILO, HAWAII	-0	28
HANAUMA BAY, OAHU	-0	59	HONOKAPO, HAWAII	-0	28
KANEIHE BAY, OAHU	-1	46	HONOKOHU, HAWAII	-0	28
LAIE BAY, OAHU	-1	45	MAHUKONA, HAWAII	-0	04
WAINAE, OAHU	+0	20	KAWAIIHAE, HAWAII	-0	04
WAIMANALO, OAHU	-1	15	KEAIAHUA BAY, HAWAII	-0	10

MOON PHASES



29.51 = 29.51

10/1000000

10/1000000

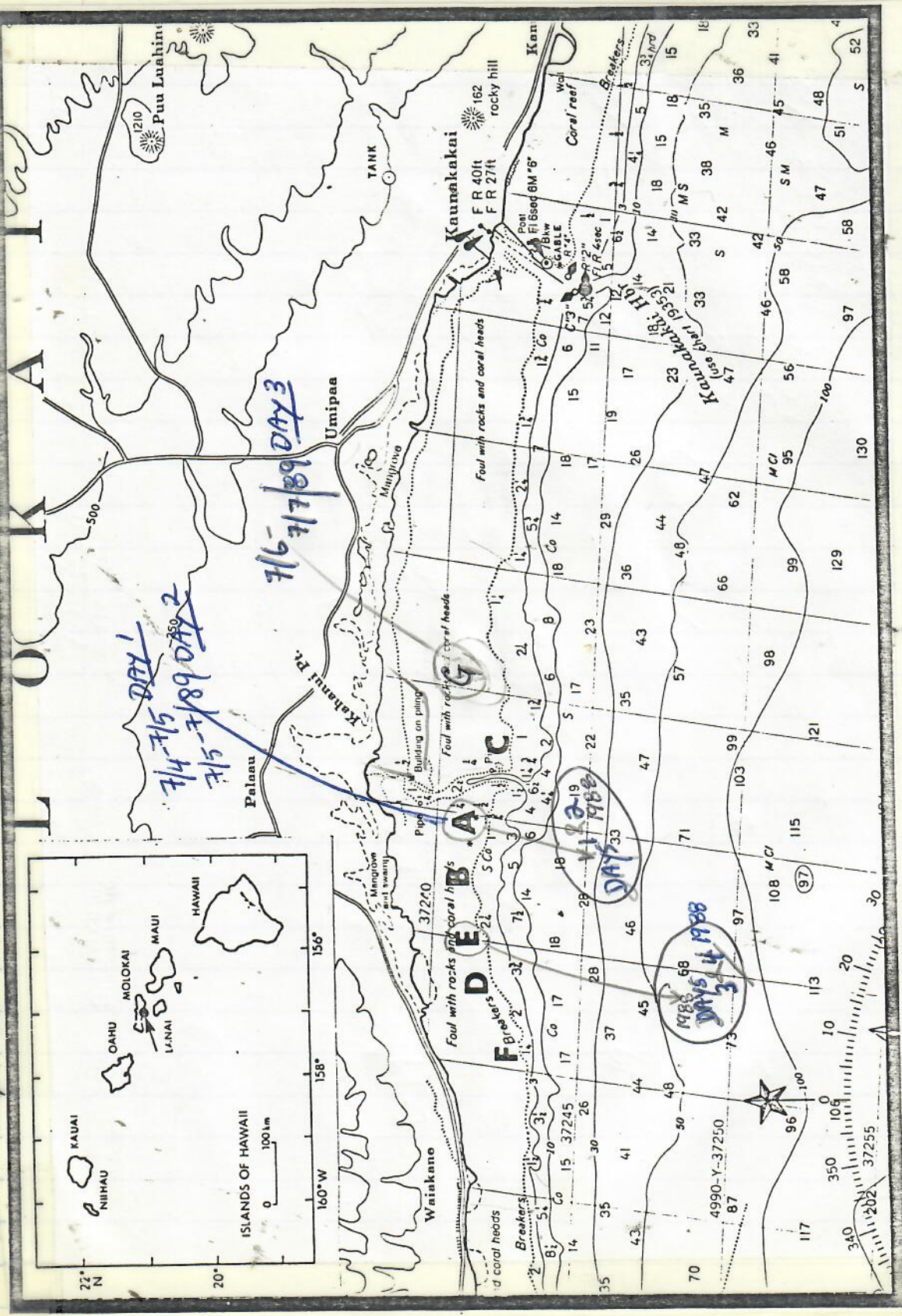
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"SITE A - Sugundo's" = "1937 1600 lbs PAPER"

11-15 JULY 88



5000 m

JULY 11, 1988 Depart HA FL 704
Monday 11:15 Am for Molokai w/ 5
headstart from SCP 1987 hatch.

Picked up by Ed Meleros → to his house to prepare for setting bullpens, 5 turtles tagged and measured.

Net set at Site "A" Palau at ~5pm. Mike Darcy, DART, Ed, JOEY, Kela Kalama, SHANE ^{MORAN} AND me. Some South Swell, strong wind but died down ~ 4:30pm. Ed states he has not set at Palau since I was here last. Set a week or so ago at Kamalo. Caught many ulua - #. Also tagged turtles ~ 100 lbs. Didn't record no.

Need \$20 for recoveries. Large hammerhead in pen. Mesh looks 1" square.

Checked in to Hotel Molokai 6:45pm.

TIM MORAN

wife-deceased Jackie

10

Sea Life Park display

P.J.

headstart greens 1987 hatch

SHANE

Kela KALAMA

July 11, 1988

1. D 156, D157 ^{SL}26.8; ^{SW}21.4, (10751 R) 2-35
Postcentral bitten - faintly missing.

2. D 171 R; ^{SL}21.8; ^{SW}17.9, (10752 L) 2-35

3. D166, D167, ^{SL}24.1, ^{SW}19.1, (10753 R) 2-35
PC injury - part missing

4. D165, D164, 25.9, 19.9, (10754 R) 2-35

5. D159, D158, ^{SL}21.7; ^{SW}16.7, (10755 R) 2-35

"D" tags are Size 1 - all 3-45 -
all orig. applied as hatchlings
~ a year ago.

7-11-88 Released PACAD

TUES.
Ju

All 5 released Palau 7/11/88, 3pm
 - photos taken ASA 64.
 USE FOR MOLOKAI PRESS RELEASE & MOLOKAI NEWS.

TUES.

July 12, 88 Depart KK pier 6:20 am.
 Tuesday Motored outside reef. South
 Swell large in some areas
 Against reef.

Arrived at net site ("A") at ~ 7 am.
 Collected and bagged turtles
 19 total. Yellow numbers on all.
 3 recaptures. Weight and stomach
 sample taken on two.

Backnote: SHANE TOLD ABOUT "HIS" TURTLE - A
 TAGGED ONE THEY LET HIM RIDE W/ 4 YEARS
 old - 4 years ago before mother died. DART KILLED
 IT - THEY ATE IT - SHANE'S MOTHER CRIED.
 KOLA CONFIRMED STORY.
 All released at net site by
 12 noon. Brought fish in and
 returned to KK pier outside reef.

Ate fish fry at Ed's House - Met Mr. OBUKA.
 Described large turtles at "Houses"
 along east end. Usually at entrance
 to "Harbors".

∴ 19 individual Turtles
 - w/ 3 Recoveries
 - 1 Tumor

DAY 1 Pick-up
 (19) TURTLES
 TOTAL - OF
 WHICH 3 RECOVERIES

(1) 9884,85 6/87 Bullpen

(2) 9589,90

(3) 7947,49 1/85 Bullpen

Riese tags on 9 turtles
 along w/ double Inconels.

TUMORS =

TAG

(1) 10,75
 10,75
 10,75
 GREEN
 RFF

(2) 10,759
 10,76

(3) 10,7
 10,7
 10,7

(4) 10,76
 10,765

(5) 10,7
 10,76

(6) 10,76
 10,76

7/11-7/12/88
TUES.

SITE A
PALAU

79°F - Seawater
at net

13

TAG NO. - SL SW CL CW PL WEIGHT

① 10,757 R 98.9 69.4 100.5 89.5 ^{where TAG APPLIED} *
 10,756 L small fin left flipper near tip white
 10,758 ^{LHIND} blue DORSAL
 GREEN "HE" L3-4S LEFT FRONT FLIPPER } yellow 1
 RFF 16.3 cm HEAD 13.0 cm } Spray Paint

(SL) (SW) (CL) (CW)
 ② 10,759 L 67.2 51.7 72.0 64.0 YELLOW 2
 10,760 R ^{GRN} "HE" W / BLUE BOTTOM DALTON TAG
 L34S

③ ^{NOT APPLIED} ^{BENT} 10,761 75.2 57.0 80.5 71.0 YEL 3
 10,762 R
 10,763 L ^{GRN} "HE" W / BLUE BOTTOM R-34S

④ 10,764 R 64.6 - 49.8 - 69.0 - 62.0 YEL 4
 10,765 L Green "HE" W / BLUE BOTTOM R3-4S (Recaptured 7/14 SITE E)

⑤ 10,766 R 62.8 - 48.7 - 67.0 - 62.5
 10,767 L GRN "HE" W / BLUE BOTTOM 34LS YEL 5

⑥ 10,768 L 54.7 - 43.8 - 58.0 - 53.0 YEL 6
 10,769 R ORANGE "PM" W / BLUE BOTTOM 34L

7/12/88 TUES SITE "A" Palau Pick-up Day 1

TAG NO. SL SW CL CW PL WEIGHT

⑦ 10,770 L 43.4 - 35.4 - 46.5 - 41.0 YEL 7 ^{PANT}
10,771 R 2-3

⑧ 9884 L 41.3 - 34.1 - 44.0 - 40.0 "8" 6 CENTRAL
9885 R 40.8 (NOTCH) 5 LEFT LATERALS - PLATES
RECOVERY

⑨ 10,772 L 48.9 - 39.5 - 52.0 - 46.0 YEL "9" SEVERE
10,773 R LIFTING SLIGHTLY

⑩ 10,774 R 44.7 - 36.5 - 47.5 - 44.5 YEL 10 31.0 lbs
10,775 L WEIGHT = 31.0 lbs. STOMACH SAMPLE TAKEN

⑪ 10,776 R 47.5 - 38.2 - 51.0 - 46.0 YEL 11
10,777 L

⑫ 9589 L 50.1 - 40.2 - 54.5 - 48.5 YEL 12
9590 R RECOVERY

⑬ 10,778 R 75.7 - 60.1 - 81.0 - 72.5 YEL 13
10,779 L
10,780 LH RED "AW" - BLUE BOT R34S

7/12/85

TAG NO

4/23/85
51.9cm →

(14) *
7947, R
7949, L

8.9cm in
3 yrs 3 mo

(15)
10,781 L
10,782 R

(16)
10,783
10,784

(17)
10,785 L
10,786 R

(18)
10,787
10,788

(19)
10,789
10,790

7/12/88 Aug 3rd
MUSKUM @ MARIU

#9365 ??
DART - week
LAST week
KARLO? 17

→ TAG NO SL SW CL CW PL WEIGHT
PAINT
(14) *
7947 R 60.8 - 46.8 - 65.5 - 57.0 YEL 14
7949 L R (RECOVERY) BOTH TAGS "RINGED" Today

(15)
10,781E 67.0 - 55.6 - 71.5 - 67.5 YEL 15
10,782R

GRN "HR" w/ BLUE BOTTOM 345

(16)
10,783 R 45.4 - 36.2 - 48.5 - 43.0 YEL 16
10,784 L

(17)
10,785 L 59.6 - 47.1 - 64.5 - 56.0 YEL 17
10,786 R SEAM DOWN 9+10 LATERAL RIGHT 6/10
Scale Healed NOTED lbs
YEL "BF" w/ BLUE BOTTOM LEFT 345 STOMACH SAMPLE TAKEN
WEIGHT = (6.0) lbs.

(18)
10,787 R 48.9 - 38.1 - 52.5 - 45.0 YEL 18
10,788 L

(19)
10,789 R 42.7 - 35.3 - 45.0 - 40.5 YEL 19
10,790 L

July 13, 1988 WEDNESDAY

up 5:20 AM - Picked up by
Bill Luleoa at 6:00 AM.

Bought donuts and bread. Bill's cousin
2 nephews and one man visiting him
went on boat. Arrived at Site A
net - gathered turtles - all very
lethargic - easy to catch. None
struggled hardly at all. Used
blue paint today. Mary Ann
recorded data.

Net picked up. South swell
less than yesterday, but wind
came up strong. While picking
up one of wings, a turtle
was found somatose lying on
the bottom. Reported not
tangled or even in net, not
in bag (pen). Totally limp -
almost no tail reflex.
Tube put in glottis. ~15 min
later, head-breath reflex started
with progressive improvement.

Kept overnight in Hotel
bath tub.

Finish pick-up ~ 11 AM.
Moved to the west to

SITE "E" approximately. Completed
set and left site ~ 12:30 pm -
back at dock 1:30 pm - really blowing.

DAY 2 Pick-up

∴ 19 individual
Turtles

19 TURTLES,
OF WHICH
3 RECOVERIES.

orig. Tagged

(1) 9877, 78 6/87 Bullpen

(2) 7945, 46 4/23/85 Bullpen

(3) 9874, 75 6/87 Bullpen
(Comatose -- subsequently died)
Shipped to Honolulu

Riese tags on 10 turtles
along w/ double incisors.

Tumors =

7/13/WEDNESDAY Pick-up turtles DAY 2
 88 SAME SITE "A" - net not moved yesterday. 218

TAG NO. SL SW CL CW PAINT
 BLUE

① 10,792 R 62.1 50.4 66.0 62.0 1

Both PC's part missing - healed.

10,791 L ^{PLASTIC} RISE TAG
 GREEN HP BLUE BOTTOM 3-4R

② 10,794 - bent
 10,793 R 50.6 39.2 53.5 47.0 10

10,795 L

③ 10,796 L 63.2 48.9 67.0 58.5 3

10,797 R

GREEN HK BLUE BOTTOM 3-4R

④ 10,798 - bent
 10,799 L 61.3 48.6 66.5 60.5 5

10,800 R

GREEN HM BLUE BOTTOM 3-4R

⑤ 10,801 L 59.9 48.5 64.0 59.0 11

10,802 R

GREEN HW BLUE BOTTOM 3-4R

JUL

TAGNO

⑥ 10,803
10,805
10,804

*
⑦ 9877
9878

⑧
10,806
10,807

*
⑨ 7946
7945

⑩ 10,808
10,809

⑪ 10,810
10,811

4/23/87
47.9
SL- 38.8
9.1cm
3yr. 3 months

JULY 13, 88 SITE "A" DAY 2

23

TAG NO. SL SW CL CW BLUE

⑥ 10, 803 L 54.4 44.8 58.5 55.0 13
 10, 805 R
 10, 804 - bent

*
 ⑦ 9877 L 59.8 46.2 64.5 57.0 14
 9878 R

GREEN "HZ"
 RECOVERY BLUE BOTTOM 3-4 R

⑧ 10, 806 L 59.8 46.4 64.0 56.5 12
 10, 807 R

GREEN "HY"
 GREEN BOTTOM 3-4 R

*
 ⑨ 7946 L 47.9 36.4 50.5 43.0 4
 7945 R

RECOVERY

⑩ 10, 808 L 54.1 42.6 57.5 50.0 8
 10, 809 R

⑪ 10, 810 L 66.3 50.9 71.5 62.0 9
 10, 811 R

GREEN "HU"
 GREEN BOTTOM 3-4 R

July 13, 88
Wednesday DAY 2TAG NO. SL SW CL CW BLUE

(12) 10,812 L 62.7 48.9 69.0 61.0 16
10,813 R

ORANGE "PR" RED BOTTOM 3-4R

(13) 10,814 L 61.6 49.6 65.5 59.0 7
10,815 R

YELLOW "BA" ORANGE BOTTOM 3-4R

(14) 10,816 L 43.5 34.2 46.3 39.5 15
10,817 R

(15) 10,818 L 53.3 41.2 57.0 49.5 2
10,819 R

45.5 lbs - ATTEMPTED STOMACH SAMPLE - SAMPLE SAVED

ORANGE "PG" ORANGE BOTTOM 3-4R

TUMOR VENTRAL NECK - PHOTOGRAPHS 17-18

(16) 10,820 L 51.2 41.5 54.0 48.5 6
10,821 R

39.5 lbs. NO SAMPLE ATTEMPTED
(couldn't find soft rope to open mouth)

(17) 10,822 L 39.7 - 42.0 - 17
10,823 R (2-3)

CURVED PIECE MISSING (LEFT)

PHOTOGRAPHS 13-16

20.5 lbs ATTEMPTED STOMACH SAMPLE. NOTHING SAVED
(wasn't feeding?)

JULY 13, 88
Wed:

DAY 2

27

PAINT
BLUE

<u>TAG NO.</u>	<u>SL</u>	<u>SW</u>	<u>CL</u>	<u>CW</u>	
(18) 10,824	49.7	39.0	53.0	48.0	<u>1P</u>

10,825

(19) 9874.L	56.2	43.6	60.0	51.5	
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9875R

RECOVERY

Above turtle found comatose lying on the bottom near wing outside of pen. Tube resuscitation. Held overnight at hotel. Found dead ~9:30 pm 7/13/88.

Shipped furcra to Honolulu

#9874 Green turtle stomach, jars #1,2,3 & 4 combined

<u>Halophila ovalis</u>	85%
<u>Acanthopora spicifera</u>	10
<u>Amansia glomerata</u>	1
<u>Dictyophaeria cavernosa</u>	1
<u>Halimeda discoidea</u>	1
<u>Hypnea cervicornis</u>	1
<u>Hypnea musciformis</u>	1
<u>Ceramium sp.</u>	Trace
<u>Cladophora sp.</u>	Trace
<u>Gelidiopsis variabile</u>	Trace
<u>Hypneocolax stellaris</u>	Trace
<u>Oscillatoria sp.</u>	Trace

Day 3 Pick-up

29

July 14, 88 Thurs.

SITE "E"

Depart K'K pier at ~6:20 AM
w/ DART, Mike, Diane & ED only.
Aerwe net ~ 7am

No obvious sharks in net
Suspect considering 3-4 dozen
"blk tips" 3-5' feet seen right
against mangroves straight ashore.
Small boat w/ 2 fishermen setting
gillnet(s?) just to the west
of bullpen guide.
Slight offshore wind stirring up
bottom.

Considers - "Short-circuit detritus
cycle" due to many turtles
of this region.
→ Note: lack of human habitation,
abundance of turtles.

New-Moon last night .. of significance?
DART estimated 40 turtles in pen.
Ended up w/ 66 with possibly
5 still in it after bagging.
From 8-11:30 am I tagged, measured
and released w/ DIANE recording.
Couldn't take widths due to crowding of
turtles, and need to get them off
one another to prevent crushing
and suffocation.
Photos - Hawksbill; Ed/Diane w/ turtle; Ed carrying turtle.

ASA 64
36
EXP.

65
INDIVIDUAL
TURTLES
64 queens, 1 Hawksbill

66 Turtles, of which one is a short-term (Day 1 "yellow") capture, and 8 recoveries (long-term). Also includes one juvenile Hawksbill.

① 7835 3YR 7/85 SL 68.6 cm E2 (MR) 72.2

② 6539, 40 / 82

③ 8527, 28 3YR 3MO 4/85 48.8 D 56.1

④ 9486, 87 / 85

⑤ 8543, 44 NO OTHER TAGS 3YR 3MO 4/85 51.8 E 59.6

⑥ 8601, 8650 3YR 3MO 4/85 40.6 C 47.1

⑦ 8519, 20 3YR 7/85 49.0 D 7.6 cm 56.6

⑧ 7825, 26 3YR 7/85 39.6 E2 46.9

Tumors =

These tags on 18 turtles
along w/ double Inconels.

TAG NO.

10926

10927

10928

RED "AB"

10929

830

RED "AG"

7835R

RECOVERED

LEFT TAG

could

831, 832

833, 834

835, 836

JULY 14, 88 Thursday DAY 3 Pick-up 31

<u>TAG NO.</u>	<u>SL</u>	<u>C.L</u>	SITE "E" all Gray PAINT
10826	74.7	78.5	Swirls & spots only
10827			live to wet shells.
10828			
RED "AB" ORANGE Bottom			

10829	68.0	72.5	
830			
RED "AG" ORANGE			
7835R	72.2	77.0	TUMORS - BOTH EYES

③ RECOVERY *

LEFT TAG IN TUMOR so couldn't read number.

TOP IN NECK

ORANGE "PB" ORANGE Bottom

7836

831, 832	59.8	64.5	
----------	------	------	--

④

833, 834	68.1	73.5	" "
			<u>Y BD 0</u>

⑥ 835, 836	47.7	51.0	
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July 14, 88 Day 3 pick-up

SITE E

¹⁰ ⑦ 837, 838

SL
48.5

CL
52.5

⑧ 839, 840

53.4

57.5

⑨ 841, 842

62.1

67.0

ORANGE "OPW" Red

*
⑩ 6539 (L)

54.0

57.5

42.6 SW

6540 (R)

51.0 CW

RECOVERY

⑪ 844, 843

69.3

75.5

TUMOR - LEFT EYE

+ SMALL ONE IN

RIGHT EYE

yellow "BJ" Red

⑫ 845, 846

67.4

72.5

yellow "BS" Red

*
⑬

56.1

59.5

8527 (L)

8528 (R)

RECOVERY

July 14, 88 DAY 3 SITE "E"
Pickup

35

	<u>SL</u>	<u>CL</u>
(14) 847, 848	49.7	53.0

(15) * 9487 (R) 9486 (L)	61.7	66.5	" " Y-BL-R 49.2 SW
Recovery			

(16) * 8544 (R) LEFT-DISTAL 8543	59.6	65.5	HEALED NOTCH LEFT FLIPPER Y-BW-R
Recovery			

(17) 849, 850	60.6	65.0	
---------------	------	------	--

(18) 852, 851	62.9	67.5	" " Y-BZ-R
---------------	------	------	---------------

(19) 854, 853	46.9	50.0	
---------------	------	------	--

(20) 855, 856	73.7	79.0	" " Y-BU-B
---------------	------	------	---------------

July 14, 88 Day 3 Pick-up
SITE "E"

37

(21) $\begin{matrix} 10 \\ 857 \end{matrix}, \begin{matrix} 10 \\ 858 \end{matrix}$

$\frac{SL}{52.5}$

$\frac{CL}{56.5}$

(22) $\begin{matrix} 10 \\ 859 \end{matrix}, \begin{matrix} 10 \\ 860 \end{matrix}$

49.3

53.0

(23) 861, 862

56.8

59.5

HEALED
NOTCH

(24) 863, 864

51.1

54.5

6 CENTRALS

(25) 865, 866

56.3

61.5

(26) 867, 868

72.5

78.0 3-4 = "Y-BG-R"
||

(27) 869, 870

60.1

63.5

(28) 871, 872

51.4

54.0

July 14, 88 DAY 3 pick-up
SITE "E"

¹⁰
②⑨ 873, 874

SL
61.2

CL
65.5

*
③⑩ 8601
8650

47.1

50.5

SW-36.4

RECOVERY

③⑪ 875, 876

56.8

60.5

③⑫ 877, 878

56.3

60.5

③⑬ 879, 880

63.4

69.0

3-# " "
Y-BP-R

③⑭ 881, 882

53.6

58.0

③⑮ 883, 884

54.5

58.0

③⑯ 885, 886

50.7

53.5

③⑰ 887, 888

52.5

56.5

July 14, 88

Day 3
Pick-up

SITE "E"

41

(38) ¹⁰889, ¹⁰890

SL
52.7

CL
57.0

(39) ¹⁰891, ¹⁰892

64.2

69.5

3-4 "Y-BK-R"

(40) 893, 894

48.7

52.0

(41) 895, 896

60.1

65.0

(42) 897, 898

54.0

58.0

(43) 899, 900

40.9

43.5

"Knobby"

ABNORMAL

SCALE GROWTH

DORSAL LEFT FLIPPER

(44) 901, 902

40.4

43.0

(45) 903, 904

72.7

78.5

"Y-BR-B"

(46) 905, 906

46.0

49.5

JULY 14, 88

DAY 3 pick-up

SITE "E"

(47) ^{10,} 907, ^{10,} 908

SL
46.8

CL
50.0

(48) 909, 910

57.1

60.5

(49) 911, 912

57.9

62.0

(50) * 8519 MADE
8520 (RING)

56.6

62.0

SW-43.7

RECOVERY

(51) 913, 914

47.6

50.5

(52) * 7826 MADE
7825 (RING)

46.9

50.0

SW-37.5

RECOVERY

(53) 915, 916

62.7

67.5

(54) 917, 918

62.1

67.5

(55) 919, 920

69.4

76.0

3-4"
Y-BM-R

JULY 14, 88 DAY 3 PICK-UP "SITE E"

10, 10,
⑤ 921, 922

SL
60.2

CL
65.0

SMALL TUMORS
3 - RT. SHOULDER
2 - LF. SMALL ON NECK
1 - CHIN, 1 CORNER
OF MOUTH

⑤ 923, 924

72.1

78.0

(TUMORS) EYES,
BOTH F. FLIPPER &
NECK

" "
Y-BY-R

⑤ 925, 926

59.2
56.3

63.0
59.5

Recovered 5/8/90
SITE A

⑤ 927, 928

74.7

81.0

Y-BY-R

⑥ HAWKS BILL

45.4

48.0

SW - 36.0

N - 44.1

CW - 41.0

100 929, 930 (R-3) HEAD W. - 6.5 PL - 34.8

⑥ 931, 932

(P.C. - PARTLY MISSING + HEALED)

7/2/90 Site B

54.4
56.6

58.5
61.0

(Added

Z164
L3-4)

⑥ 934, 935, 936

65.9

71.0

July 14, 1988 DAY 3 PICK-UP
SITE "E"

47

10 10
③ 938, 937
3

SL
59.4

CL
64.0

④ 938, 939

63.0

69.0

⑤ 940, 941, 942 (HIND)

71.9
69.4

77.0
75.0

7/90 site B

⑥

Plastic tag "BD" - yellow paint -
Released right from net,

Seawater 79-80°F
 July 15, 88 DAY 4 pickup SITE E
 Friday

Ed sold nets to MOSES KALILIKANE.
 He mentioned that "largest turtle ever
 caught on Mohikahi 600 lbs
 by Coconut Grove - caught by
 Moses by net
 Ed's bullpen nets ??

Depart dock 6:30 AM - Bill
 Ed, me, Mike, ~~DAET~~ (his 3 kids
 Rosie, Phoebe & Boy), Tim
 Mojan & 3 sons.

Arrive at net ~ 7:35 AM --
 50% of entrance closed off.
 (East side closed to guide of that
 is k's dock side in turtles
 could only enter that were
 along west side.

24 turtles, of which
 1 shortterm, (7825, 26 gray)
 recapture, 2 recoveries.
 (longterm).

∴ 23 individual turtles

Tumors =

~~9 TOTAL~~ Riese tags on 8 turtles
 along with double Ticonels,
 + 1 Turtle Riese only.

JULY 15, 88 Pick-up Day 4
FRIDAY SITE "E"

51

TAG NOS SL/SW CW/W white
PAINTED NO

① ¹⁰943L/944R 45.1/34.9 48.5/41.0 #3

② 945L/946R 55.1/42.8 58.0/51.5 #5

③ 947L/948R 48.7/37.4 53.0/46.5 #21

④ 949L/950R 65.4/50.8 69.5/61.0 #1
RIGHT 3-4 = WHITE "MW" ORANGE PLASTIC TODAY

⑤ 951R/952L 57.6/43.7 62.5/56.0 #2

⑥ 953L/954R 46.0/36.4 49.0/42.5 #20

⑦ 955L/956R 41.5/33.2 43.5/40.0 #7

July 15, 88
Friday

Pick-up Day 4
SITE E

53

TAG NOS SL/SW CL/CW PAINT #

⑧ 957R/958L 57.0/44.6 61.5/52.0 #6
959L (3-4)

maybe loose

← 3rd Tag

⑨ 960R/961L 50.5/39.1 53.0/46.0 #15

⑩ 7875/7926 67.3/49.0 67.5/60.0 #8
LEFT RIGHT

Recovery!!

"Ring"

RE-PINCHED TAGS Today

RIGHT 3-4 WHITE "NY" ORANGE PLASTIC TAG APPLIED Today

⑪ 962L/963R 47.1/39.4 49.5/45.5 #11

⑫ 964L/965R 50.2/39.2 53.5/48.0 #16

⑬ 966L/967R 53.0/42.0 56.0/49.0 #13
healed NOTH between w/11 left lateral pedis

July 15, 88
Friday

Pick-up Day 4
SIDE "E"

55

TAG NOS SL/SW CL/CW PAINT #

(14) ¹⁰968L/969R 49.0/39.1 51.5/46.0 #10

(15) 970L/971R 55.5/44.2 58.5/53.0 #9

(16) 972L/973R 53.7/41.4 57.5/51.0 #14

(17) 974L/975R 80.1/58.1 86.5/72.0 #4

11,000 RH Flipper

Notch between 9 & 10 RIGHT LATERAL SCALES

RIGHT 3-4 = WHITE "MP" / orange PLASTIC TAGS TODAY

(18) 976L/977R 65.5/48.9 70.0/62.0 #22

RIGHT 3-4 = WHITE "MD" / ORANGE PLASTIC TAGS TODAY

LEFT

RIGHT

(19) 8531 8532 69.0/52.0 74.0/63.5 #17

RECOVERY!

RIGHT 3-4 WHITE "MM" / orange

TAG NO. SL/SW CL/CW PAINT #

(20) "NO METAL TAGS" 57.2/49.4 61.0/55.5 #23
RIGHT 3-4 = WHITE "MK"/orange

(21) ¹⁰ 978L/979R 63.1/49.2 67.5/59.0 #12
RIGHT 3-4 = WHITE "MB"/orange Today

(22) 980L/981R 65.4/50.1 70.5/61.5 #18
RIGHT 3-4 WHITE "MR"/orange Today

(23) 982L/983R 65.0/52.9 70.5/64.5 #19
RIGHT 3-4 WHITE "MG"/orange Today

(24) 7825, 26
gray paint from DAY 3, SITE E

As of 4/1/88 - Poleloa's sheets

402 turtles tagged

44 recoveries (~10%)

3/10/88 Turtles released in Karua fishpond.

see ALSO
Pg 26-27
GENY BOOK
10/7

"OUR REEF" PRESENTATION

61

8 AUGUST 88

Monday

Depart for Molokai
FL 728 2 hours delay
arriving at 4:45 pm.

Tropical rental car \$22.95 to
Hotel Molokai \$38.50 (regular \$45).

Slide presentation at ~7pm Mitchell
Pauole Center - Walter Rittle
"OUR REEF" -- others making
presentations included Bill
Puleloa OI on restocking
(stock enhancement), Keith Bigelow

Met Billy Kalipe - Molokai Fishermen Assoc.
jellyfish fin pad - yellow

Turtle oil for pink eye. Hang up to
drip out
takes 1 every couple of months for
family.

Used to hunt turtles w/ Milton Place,
30-40' depth "houses". No scuba used.
Fishermen from Maui used
powerheads. If they hit turtle
on the back they would just throw
carcass away. Turtles would
abandon houses where blood was.

9 AUGUST 88

Tues.

7:30 AM Breakfast with
Walter, Carol Wainbone (?) sp.
and OI scientists.

9:30 AM went w/ Puleba and
MOF students to Moomoomi.
Bill reports Moloai ranch
allowing recent military exercises.

"Incredible" amount of plastic debris
on beach. photo taken.

Saw faint tracks from first nesting
excursion - no dig - w/e to
west end of beach.

Bill pointed out 3 sites of
more recent nesting attempts.

① - closer to water's edge " extreme east end near to where we parked (near recreational structure)

② - several pits along steep sand bank.

③ A little more to the west of #2, at about mid-point of beach.

note: Tracks to the west don't seem as subject to erase by

Lost my Wedding Ring
AT unknown SITE on Beach THIS DAY

wind (less wind here). areas at east end of beach get wind-blown easily.

Bill reports evidence of person digging with plastic bucket for eggs.

Report that conveyance may not require beach land.

Walter reports efforts to gain public access through blocked gates along this entire area.

MOR students saw a Monk(?) seal ashore at an east-end beach.

Telecon w/ Ed Misaki 8/11/88 Thursday

Pits in bank estimated to have been made 7/27/88.

2 midbeach - second one believed to be good, made 7/29/88

"Nest" to the east, not really known to be from a turtle.

Date Tagged: August 27, 1988Location Caught: Kawela, MolokaiMethod of Capture: Fisherman's nets (EH)

<u>Number</u>	<u>Curved Length (cm)</u>	<u>Curved Width (cm)</u>	<u>Tag Number On Left Front Flipper</u>	<u>Tag Number On Right Front Flipper</u>
<u>1</u>	<u>70.5(65.0)</u>	<u>66.0(52.5)</u>	<u>9155</u>	<u>9156</u>

Date Tagged: August 28, 1988Location Caught: Kawela, Molokai (outside Kanoa Fishpond)Method of Capture: Fisherman's nets

<u>Number</u>	<u>Curved Length (cm)</u>	<u>Curved Width (cm)</u>	<u>Tag Number On Left Front Flipper</u>	<u>Tag Number On Right Front Flipper</u>
<u>1</u>	<u>78.5(74.0)</u>	<u>72.0(59.0)</u>	<u>9157</u>	<u>9158</u>

Date Tagged: August 30, 1988

Location Caught: Kawela, Molokai (outside Kanoa Fishpond)

Method of Capture: Fisherman's nets

Number	Curved Length (cm)	Curved Width (cm)	Tag Number On	
			Left Front Flipper	Right Front Flipper
1	56.0(51.5)	51.0(41.5)	9159	9160
2	46.0(43.5)	40.5(35.0)	9161	9162

Remarks: 516 ~~turtles~~ turtles tagged to date with 61 recoveries.

Early May 1989 Tag 7939, 40 ^{410 B&B} (expanded) returned in envelope with note "Caught in gillnet at Palau"
 (See p. 74 Book 2)
 Palau originally tagged 4/11/85 "Released at Doek"
 Recaptured GIB/ED 4/23-4/26/85 Palau

NO MEASUREMENTS PROVIDED

4 years ago.

Date ~~Tagged~~: June 10, 1989

Location Caught: Initially at Kawela, Molokai on June 29, 1985

Method of Capture: _____

Number	Curved Length (cm)	Curved Width (cm)	Tag Number On Left Flipper	Tag Number On Right Flipper
1	87.0(81.0)	80.0(61.5)	missing	8625

Straight measurements in parenthesis.

This animal was reported dead and washed up on shore at Kamiloloa, Molokai by DOCARE/DLMR personnel. The front left flipper was missing

and appeared to be the result of a shark attack as the tear was very ragged. Tumors were present on the arm pits, groin areas, head and

neck region of the turtle. The tag on the left flipper was retrieved,

but the right tag was missing along with the right flipper. The turtle

was disposed of by the Maui County Public Works at ^{the} municipal

land fill.

The original measurements taken on June 29, 1985 are as follows:

74.0(68.0) 67.5(54.5)

straight measurements in parenthesis.

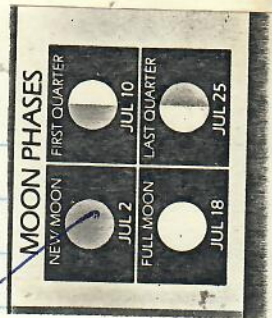
13cm increase for
3 yrs 11 months (3.9 yr)

3.33 cm/yr

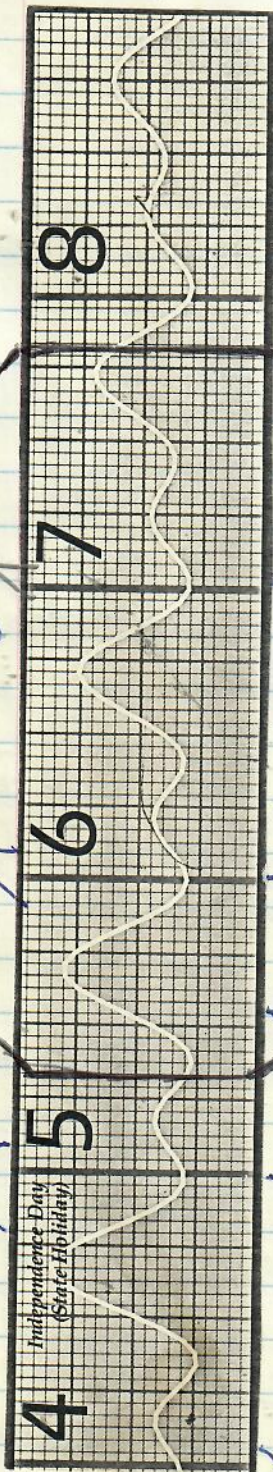
142 TURTLES
8.4% 12 Molokai Recaps (+ 1 FFS)
9.8% 14 w/tumors

1989

KAWAKAWA = 209 min



July 6th



Friday

Thursday

26°C seawater
Brisk wind low tide 10 AM

ERNEST HORCAJO
553-3328

+ 2 BLUE FROM Day 1

27 CAPTURES
(11.1%) 3 Recoveries
(18.5%) 5 w/tumors

38 CAPTURES
(2.6%) 1 Recovery
(5.3%) 2 w/tumors

net had been set directly out from "Biomass" plant - large adult w/massive Tumors Reported

77 CAPTURES
(10.4%) 8 Molokai Recoveries + (1 FFS)
(9.1%) 7 Tumors

Oct. exp
Wednesd
wet suit
Patches
+ Lewin
Dept Health address TOED
Size distrib more big?
+ Shank b...
Earl Durham
Thur.
SAW
... on the w...

Oct. expedition

Bi-monthly write up

Julian / Joe

E. Hobart

MoP mangrove report

Wednesday 5 JULY 89 by myself -

wet suit

TO Molokai via HA after having been "bumped" by Aloha Is. Air. Depart 7:30am. Avis Sentra car rental 19.95.

Patches

PAV HANA #39 "LongHouse" Remodeled.

Departed Dock ~ 9:30am. w/ Julian, Mike, Dart, Tanya, Bill P., & Ed.

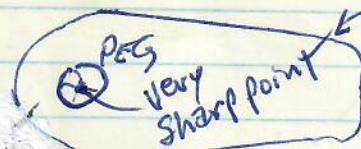
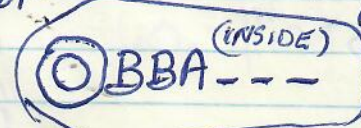
Cewin Dept Health address

Searched for lost powerhead before arriving at SITE A where Ed had set net yesterday after having it in front of Biomass plant.

Worked ~ 11am - 3pm tagging/measuring turtles. All

Color = LIGHT BLUE Bottom (other side) = Address

Size distribution - more big?



(other side) = BBA --- Dalton Jumbo "Roto" tags. NOTE - Number/letter stamp in, with Blk.

Shark bite Ed Dunham

Returned to pier ~ 5pm - inside Reef.

Thursday 6 JULY 89

SAW

Porpoise school Keolu, Julian Chang, Joe Gomes, Ed, Bill, Mike. Captured turtles & tagged until 1pm. Moved net to new Site "G".

on the way

(Go to p. 84)

Tanya GOMES

Mailing address - Spokane, WA

remaining for
old P.O.

#330

#660 new PO

Need - photo of pliers, tags

Table 1.--Growth rates of 12 tagged green turtles resighted at Palaau, Molokai, 4-7 July 1989.

Tag No.	Initial straight length (cm)	Recapture interval (yr/mo)	Growth rate (cm/yr)
a	9,877-78	2-1	2.06
b	10,873-74	1-0	1.90
c	9,492-93	3-9	3.33
d	6,282-83	5-3	1.52
e	9,415-16	4-0	2.85
f	10,789-90	1-0	3.50
g	7,908-09	4-2	1.10
h	10,785-86	1-0	2.80
i	8,525-26	4-0	2.75
j	6,414-15	6-10	(1.39)
k	9,603-04	2-6	2.96
l	7,932	4-3	2.00
Mean	53.0	40 mo	2.35
Range	40.5-64.0	(3.3yrs)	1.10-3.33 (15/16 in/yr)

BBA401 TO BBA446
ALL BBA's APPLIED TO LS3-4, unless stated otherwise

JULY 4-5, 89 SITE A "CAPTURES"

SITE A * = Spheres

TAG NOS.

- Y-355 R *
- Y-356 L
- Y-357 R *
- Y-358 L
- Y-359 R *
- Y-360 L
- Y-361 R *
- Y-362 L
- Y-363 R *
- Y-364 L
- Y-365 R *
- Y-366 L
- Y-367 R *
- Y-368 L
- Y-369 R *
- Y-370 L
- Y-371 R *
- Y-372 L
- Y-373 R * (3-4)
- Y-374 L
- Y-375 R *
- Y-376 L

5

SITE A * = ENGRAVED w/ DREMEL 1st Lat. R + Blue paint

Spherical BIT

71

TAG NOS.

STRAIGHT

CURVED

COMMENTS & OTHER MEASUREMENTS

4-355R *

L/W/N
52.4

L/W/N
56.0

4-356L

4-357R *

55.3

60.0

4-358L

4-359R *

65.6

71.0

4-360L

Heel indented R-side

4-361R *

54.9 | 54.4^N

58.0

4-362L

4-363R *

56.9 | 56.7^N

61.0

4-364L

4-365R *

60.4 | 60.1^N

65.5

4-366L

4-367R *

59.8 | 59.4^N

64.0

4-368L

4-369R *

45.7 | 44.8^N

48.0

4-370L

Recovered 5/8/90
S 46.7/45.8 C 49.5

4-371R *

47.9 | 47.3^N

51.0

4-372L

4-373⁽³⁻⁴⁾R *

45.6 | 45.4^N

48.5

4-374L

4-375* R

LHIND
4-377

67.7 | 67.0^N

73.0

4-376L

JULY 7-5, 89 SITE "A" CAPTURES

Tag NO.	log	Stegit L/N/W	Curved	Comments 3 NOS
Y-378*	R	59.2/59.0 ^N	63.0	
Y-379	L			*
Y-380*	R	54.2/54.0 ^N	58.5	
Y-381	L			
Y-382*	R	73.0/72.7 ^N	80.0	(NOTE ALL MIAMI TAGS PUNCHED AT 3-4 Left.) EXCEPT AS NOTED
Y-383	R			(3-4)
Y-384	L			
<u>BBA401</u>				
<u>Recovery</u>				
	2.06 cm/yr	76.7/74.4 ^N (57.4)	67.0 ()	Gr HZ + 9877L 9878R
		2.1 ^{mo} yrs		
Y-385*	R	68.7/68.6 ^N	74.5	L-H 1/4 missing
Y-386	L			
Y-388*	R	74.3/74.0 ^N	80.0	
Y-389	L			
<u>BBA402</u>				
Y-391*	R	65.1/64.9 ^N	71.0	
Y-392	L			
Y-393*	R	72.8/72.3 ^N	78.5	
Y-394	L			
Y-395*	R		71.0	
Y-396	L			
Y-397*	R	72.1	76.5	
Y-398	L			

Comments
NO'S

Tag : Straight
NO: 4/N/W
Y-399* R 72.1 | 71.2
Y-400 L

Curved
77.5

73
NO'S \$
Comments
L-F 3/4 missing

Y-401 L 85.3 | 85.1
(BBA405)

Recovery 91.5
6-11-82 East, FFS Bask + 6/24/89 "west"

w/5 small
Goosenecks
Adult Mak
3 big barnacles
R 6/09*
(4)

Miami

Y-402* R 75.9 |
Y-403 L (BBA406)

81.0

Freshly broken PC
(By us when put
in Boat)

Wetted
ft.)

Y-404* R 69.1 |
Y-405 L

73.5

LL
78R

Y-412* R 76.50M
75.1 | 74.9
Y-413 L

81.5
79.5

SITE A
Recovered 5/8/90

ong

Y-414* R 64.1 |
Y-415 L

68.0

Mild Distraction
L-F Shell
(Right front)

Y-416* R 50.9 | 50.5
Y-417 L

55.0

Applied
Y-416 Close to edge

Y-418* R 57.4 | 57.3
Y-419 L

61.5

Y-420* R 62.8 | 62.3
Y-421 L (BBA407)

68.0

Y-422* R 62.9 | 62.7
Y-423 R (3-4)

67.0

Small  LFL

Tag NO.'s	Straight L/N/W	Curved	NO. 5.3	Comments	Tag NO.'s
Y-424*	60.4	65.5			Y-430-R
Y-425-L					Y-431-L
Y-426*	69.3/68.7	76.0		SIGHTED BBA408 "white TAG"	3.5cm
Y-427-L	(BBA408)			1/11/91 MARK JOHNSON Tel. 669-8310	Recovery

Recovery	63.1/62.9/47.8	68.0	R-10874	Y-432-R
	(61.2) <u>1 YR</u> 1.90 cm/yr	(65.5)	R-10873*	Y-433-L
Y-428*	55.4			Y-434-R
Y-429-L	56.9 (2162)			Y-435-L
		Notch ? or ?	55.0	7/2/90

Recovery	54.0/53.7	58.5	R-9493-R	Y-436-R
	3.33 cm/yr (41.5)	10/3/85 3 yrs 9 mon (44.0)	R-9492-L*	Y-437-L

Recovery	48.5/38.0	52.0	R-6682*	Y-438-R
	1.56 cm/yr (40.5)	4/4/84 5 yrs 3 mon (43.0)	R-6683 R	Y-439-L

Y-407*	51.4/51.1	55.5		Y-440-R
Y-408-L				Y-441-L

Recovery	55.0/54.4	58.5	R-9415-R	Y-442-R
	2.85 cm/yr (43.6)	7/19/85 4 yrs (46.0)	R-9416-L	Y-443-L

Y-411(R)	50.1/49.8	53.5	Small Tumor RFL	Y-444-R
Y-410-L			Small Tumor ventral neck	Y-445-L

Y-406	56.5/56.1	60.5		Y-446-R
Y-409-L				Y-447-L

(was not sealed w/ when recovered)
 R-6682* L Sealed tag - loose
 R-6683 R
 1 tumor - L-neck
 (Last turtle engraved) (37 total above)

STATION
BA408
white TAG
SON
669-
8310

Tag NO'S: Straight L/N/W

Curved

Comments

3.5cm/YR
Recovery (42.7) 1yr

Y-430-R 57.8 | 63.0
Y-431-L
6.2 | 45.8
50.0
(45.0)
R-10789-R
R-10790-L

Y-432-R 48.5 | 48.2 51.5
Y-433-L
Small tumor corner R-eye
Small tumor R-eye
" " corner L-eye
Y-434-R 45.7 | 45.5 47.5
Y-435-L
#47

* Y-436-R 42.7 | 42.2 45.0
Y-437-L

recovered) scales to lose
Y-438-R 43.9 | 43.2 47.0
Y-439-L

neck
(37 total above)
Y-440-R 44.2 | 47.0
Y-441-L

#50 p/c's gone
tail end - big chunk missing

63.7
68.0
Y-442-R 62.3 66.0
Y-443-L

Recovered 5/90
SITE A

Y-444-R 52.9 | 52.4 56.0
Y-445-L

Y-446-R 62.9 | 62.7 67.5
Y-447-L

Day 1, Site A

Tag	NO'S	Straight L/N/W	Curved	NO'S	Comment	Tag NO'S
Y-448-R		71.7/71.4	77.5			Y-446-R
Y-449-L						Y-447-L
Y-450-R		46.9/46.4	49.5			Y-448-R
Y-451-L						Y-449-L
Y-452-R		70.1 67.9	76.0 73.0		7/3/90 site B	
Y-453-L		(2167)				
Y-454-R		64.1/	68.0			Y-470-R
Y-455-L						Y-471-L
Y-456-R		57.8	62.5		1.5 cent tumor covering L-eye indentation on R-Back side of shell like a bite.	Y-472-R
Y-457-L						Y-473-L
Y-458-R		58.5/58.3	62.0		10th m. has a piece missing	Y-474-R
Y-459-L						Y-475-L
Y-460-R		46.8/46.5	50.0		#60	Y-476-R
Y-461-L						Y-477-L
Y-462-R		61.3 (56.7)	65.5 (60.8)		4 yr 2 mo 4/24/85 1.10cm/yr little bumps on both eye R-7908 R-7909-L Had 7907 Applied TO RHF Didnt check?	Y-478-R
Y-463-L						Y-479-L
Y-464-R		49.3/48.9	52.5			Y-480-R
Y-465-L						Y-481-L

Recovery

Tumor

#60

TMR

Tag NO'S : Straight Day 1, Site A

NO'S 3 77
Comments

Y-466-R	40.6	45.5
Y-467-L		
Y-468-R	57.8	41.2
Y-469-L		

site B

Recovery 62.4 / 62.3 ^N 2.80 cm³/yr
 (59.6) 1xR 48.0 (64.5)

R-10786-R (y-SF) BF?
 R-10785-L (exp.) (This date)
 Broken PC - healed

Y-470-R	55.7 / 54.3 ^N	59.0
Y-471-L		

Tumor
 on
 of shell
 piece

Y-472-R	61.1	65.0
Y-473-L		

Y-474-R	55.9 / 55.7 ^N	40.0
Y-475-L		

Y-476-R	52.7 / 52.4 ^N	55.5
Y-477-L		

TMR

Y-478-R	46.3	70.5
Y-479-L		

Applied
check?

Y-480-R	69.7 / 69.4 ^N	75.5
Y-481-L		

Y-482-R	66.0	71.5
Y-483-L (3-4)		

MASSIVE
 Tumors both
 L & R grow
 at least 17 on neck
 both shoulders

78	Day	NO'S	NO'S - B	Comments	DAY
	Straight				YELLOW
	L/N/W	Curved			TAG NOS.
-484-R	49.2	53.0			* y-496 (R3-U)
-485-L					y-497
-486-R	52.4 ^N / 52.8	57.0			* y-498 (R)
-487-L					y-499
-488-R	51.7	57.5		Indicative to possible abnormal R-age weak?	* y-500 (R)
-489-L					y-501
-490-R	61.1 / 60.0 ^N	65.0			* y-502 (R)
-491-L					BBA-409
-492-R	61.1	65.0			* y-503 (R)
-493-L					y-504 (L)
-494-R	54.5 ^N / 54.2	58.5			* y-505 (R)
-495-L					y-506
				77 Turtles Total	* y-507 (R)
					y-508
					8526 (R)
					* 8525 (L)
					BBA-410
					* y-509 (R)
					y-510 (L)

(10.4%) 8 Recoveries of those originally tagged Molokai
 1 Tagged FFS

 9

(9.1%) 7 TURTLES w/TUMORS

Pill Pile/lost recorded data DAY YELLOW TAG NOS.

B

Bill Paleologos recorded data
DAYS Yellow paint
TAG NOS.

July 5-6, 89 SITE "A" - NET NOT MOVED 79

STRAIGHT

CURVED

Comments

* y-496 (R3-4)
y-497

43.2/42.9

45.0

very light colored carapace
EMMENTED
turnover - 3
photo
+ IN VIDEO

* y-498 (R)
y-499

55.2/54.7

59.0

* y-500 (R)
y-501

61.7

66.5

* y-502 (R)
BBA-409 (L)

69.7/69.0

75.0

* y-503 (R)
y-504 (L)

51.7/51.6

55.0

* y-505 (R)
y-506

57.2/57.0

61.5

* y-507 (R)
y-508

55.1/54.9

59.0

8526 (R)
* 8525 (L)

2.75 cm/YR

55.7/55.6
(44.7)

7/16/85

4 YRS

60.5
(48.5)

RECOVERY

BBA-410 (Z 3-4) newly APPLIED

* y-509 (R)
y-510 (L)

65.5/65.2

67.2 66.9

73.0
70.5

Recovered 5/8/90
SITE A

#9

80 Day 2, SITE A

DAY 0

TAG. S C Comment

TAG #

* y-511 (R) 58.9/58.8 63.5 #10
y-512 (L)

* y-527 (R)
y-528
BBA-416

* y-513 (R) 50.5/50.1 53.5
y-514 (L)

* y-529
y-530

* y-515 (R) 58.0/57.5 62.0
y-516 (L)

* y-531
y-532

y-517 (R) 70.3 74.5 No Notch
y-518 (L)
BBA-411 (FL)

BBA-411
* y-533
y-534
BBA-417

* y-519 67.3 72.5
y-520 (23-4)
BBA-412 (FL)

* y-535
y-536

* y-521 77.1 83.5
y-522 (L)
BBA-413 (L3-4)

* y-537
y-538
BBA-418

* y-523 60.8/59.9 65.5
y-524 (L)
BBA-414

HEALED / LHF deformed
partly SHRIVELED
BROKEN BONE?

* y-539
y-540

* y-525 (R) 69.4 75.0
y-526 (L3-4)
BBA-415 (L)

* y-541
y-542
BBA-

DAY 2, SITE A yo nattie =

TAG # S C Co.

#10 * y-527 (R) 59.4/59.2 63.5
 y-528
 BBA-416

* y-529 52.4/52.1 56.0
 y-530

* y-531 57.5/56.9 56.5
 y-532

7 central
 PLATES +
 5 left LATERALS

BBA 417 (LFF) seen basking 11/7/91 on
 EAST IS. FFS By MARTIN SCHULTZ FWS.
 * y-533 80.7 86.5
 y-534 (L)
 BBA-417 (3-4L) 3/4cm tail → MALE?
 LHF AMPUTATED

* y-535 56.0 60.5
 y-536 (L)

* y-537 (R) 66.2 71.0
 y-538 (L)
 BBA-418 (3-4L)

* y-539 (R) 50.0/49.9 54.5
 y-540 (L)

* y-541 (R) 62.6/62.5 68.0
 y-542 (L)
 BBA-419 (3-4L)

med
 RELED
 ?

82 * EARL Dynam = Bitten by A SHARK.
ON MOLOKAI

TAG # S C COMMENTS

* y-543 (R) 64.3/64.0 69.0 #26
y-544
BBA-420

* y-545 (R) 63.8/63.5 68.0
y-546 (L)
BBA-421

* y-547 (R) 65.7/65.6 70.5
y-548 (L)
BBA-422

* y-549 (R) 73.4/73.3 79.5
y-550 (3-4)
BBA-423 (FL)

* y-551 (R) 64.4/64.0 70.5
~~BBA-424 (L3-4)~~
~~BBA-425~~ → tag discarded
BBA-426

TUMORS
BOTH EYES
"RING" around both
Front flippers

* y-552 (R) 49.3 52.5
y-553 (L)

* y-554 (R) 40.7/40.4 43.0
y-555 (L)

SKIN ABOVE
LEFT EYE
damaged/missing
(HEALED)

MR. JULIAN
CHANG 32
TAG #

* y-556
BBA-424

* y-557
y-558

* y-559
BBA-425

* y-560
y-561

* y-562
y-563

* y-564
y-565

captured in
net while
setting
6415

6414
+ A

y-566
BBA-426

also had
2nd tag
flip
applied

MR. JULIAN
 CHANG 3386 KEAHI ST
 Honolulu HI 96822
 Tag # S

Joe Gomes
 60 St. Mary's Pl
 Redwood City CA. 94063

COMMENTS

- * y-556 56.0/55.0 61.0 #33
 BBA-427 (FL) 3 large BARNACLES
 removed from carapace
 (SAND)
- * y-557 52.3 56.0
 y-558
- * y-559 53.7/53.4 57.5
 BBA-428
- * y-560 49.6/49.5 52.5
 y-561
- * y-562 53.0/52.8 56.0
 y-563
- * y-564 (R) 59.9/59.6 64.0
 y-565 (L)

both
 pers

captured in pen while setting 3 pm
 6415 (R) (next dangling TO side) 71.0/76.0 "G"
 6414 (L) (w) 55.3 (66.5)
 + ADDED NEW
 y-566 (LH) IND
 BBA 429 (3-4)

INCLUDES 38 Total
 (NO YESTERDAY Recaps)
 1 CAPTURE (2.6%)
 2 w/TUMORS (5.3%)

Recovery
 9/3/82

missing

Also had "6416"
 ("2nd tag on right
 flipper")
 applied by Bill

Curved
 1.39
 cm/YR

NOT engraved
 Mod. TMR LEYC
 Small TMR BEYE
 TMR Left 3rd margin
 edge of shell TMR
 + 2 small L-shadows
 Heavy hard scum
 ON Carapace

from p. 6 of #990

1500' (by Dart)
Bag & Guide - 1" x 1" nylon
wings = 2" x 2" nylon ^{smaller} diameter

7/6 This date Spiny/Slipper / wrot in
net.
26°C Turtle captured while setting the
pen.

July 7, 89 out from dock 9:30 am
Friday Julian Chang, Diane, Bill P., Mike,
Ed & Koku.

Large (30lb) Alua, Papio & 1 roay in
net bag. Sandy rot near ds
muddy bottom. Halophila
roots seen when pulling up
wing of Bag.

Returned to dock inside at 3:30pm

Departed Aloha Is. Air AT 7pm -
arrive Hono 7:25 pm

NOTE: ^{re} capture on
p. 83 made 7/6/89
That is included
in day 3 count

Diane
Recorded
data 3 pm

TAG NOS.

*Y 567 (R)

Y 568 (L)

BBA 424

*Y 569 (R)

Y 570 (L)

BBA 430

*Y 571 (R)

Y 572 (L)

BBA 431

*Y 573

Y 574

RECOVERY
7604
*7603

BBA 432

*Y 575

Y 576

*Y 577

Y 578

BBA 433

on
ma/te
2 meter

Diane
Recorded
data 7 PM

10 AM
6-7 July 89 DAY 3

SITE G (new)

85

Cylinder bit this
used to engrave date
Comments

TAG NOS. Straight Curved

*Y 567 (R) 64.7/64.4 69.0
Y 568 (L)

BBA 424

*Y 569 (R) 77.7/77.4 83.0
Y 570 L

BBA 430

*Y 571 R 63.5/63.3 68.0
Y 572 L

BBA 431

*Y 573 R 44.1/43.9 47.0
Y 574 L

~~Recovery~~
*9604 EXP This date 64.9 / 64.7 2/24/87 69.0
*9603 EXP (57.5) 2 yrs 6 mon (61.0)
BBA 432 (New Applied) 2.96 cm/yr

Recovery

*Y 575 R 57.7/57.5 62.0
Y 576 L

*Y 577 R 68.2/67.9 73.5
Y 578 L

BBA 433

3:30 PM

PM -

Day 3:

TAG NOS.	Straight	Curved	Comments
*Y579 R Y580 L	52.7/52.4	57.0	
*Y581 L BBA 434	72.5/72.3 (64.0) Newly Applied	77.5 (70.0) 4/11/85 4 yrs 3 mon	RECOVERY
*7932 R	7931 also applied by Bill on L	2.0 cm/YR	
*Y582 R Y583 L	53.8/53.3	58.0	
*Y584 R Y585 L	56.4/56.3	60.0	
*Y586 R Y587	59.1/59.0	62.5	MASSIVE Tumor AT EYE + JAW PHOTOS
*Y588 R Y589 L BBA 440	69.3/68.6	74.5	
*Y590 R Y591 L	54.4/54.2	58.0	
*Y592 R Y593 L BBA 425	66.6/66.5	71.0	LEFT AFT TO Healed incident. PHOTO

Day 3:

TAG NOS.

*Y594
Y595
BBA 43

*Y596
Y597
BBA 43
(Sta

*9163
9164
BBA 43

*9165
9166
BBA 43

*9167
9168
BBA 43

*9169
9170
BBA 43

*9171
9172
BBA 43

*9173
9174
BBA 43

*9175
9176
BBA 43

*9177
9178
BBA 43

*9179
9180
BBA 43

*9181
9182
BBA 43

*9183
9184
BBA 43

*9185
9186
BBA 43

*9187
9188
BBA 43

*9189
9190
BBA 43

*9191
9192
BBA 43

*9193
9194
BBA 43

*9195
9196
BBA 43

*9197
9198
BBA 43

*9199
9200
BBA 43

2073

TAG NOS.	STRAIGHT	CURVED	Comments
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*Y 594 R Y 595 L BBA 435	48.8/48.7	52.0	PHOTO for photo This one only ENGRAVED ON LEFT
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*Y 596 R Y 597 L BBA 436	63.7/63.4	69.0	
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I didn't bring enough!
(Started using tags 9100 series from Bill's supply.)

* 9163 R 9164 L BBA 437	56.3/55.7	61.5	
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* 9165 R 9166 L BBA 438	60.8/60.5	65.5	Has 6 CENTRALS
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TUMOR

* 9167 R (3-4) 9168 L BBA 439	69.5 / NO NOTCH	75.0	SMALL TUMOR RT FLIPPER + BOTH EYES
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* 9169 R 9170 L BBA 441	65.8/	70.5	Bubbles Below Ken BAIL Sherraton Cares
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* 9171 R 9172 L 9173 L HIND	70.7/70.6	76.5	7/17/91 POIPU 55' dep.
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[+ BBA 442 ?] ← THIS TAG ON THIS TURTLE
YES

Y 598 R Y 599 L EXP Y 600 L HIND +	6/7/92 EAST NEST V227 cl. 963 BBA 443	89.3 / 89.0	95.0	FEMALE - RT FRONT-MATING WOUNDS HEALING LFT WING - HEALED TEAR (OLD TAG?)
--	--	-------------	------	---

HIND FLAPPER:
34.5 X 20.0 L

TAG NOS	STRAIGHT	CURVED	COMMENT
*9174 R 9175 L BBA 444 (THRU 3RD SCALE)	81.0/M	86.0	3cm. high tumor 6cm diam. VENTRAL LEFT SHOULDER SMALL TUMORS BOTH EYES 4 SCARRES ON BELLY (SHARK?)

TMR?

GURGLES WHEN BREATHING

LXW = 34.0 X 18.5 - REAL FLIPPER

*9176 R 9177 L BBA 445 (THRU 3RD SCALE)	65.0/64.6	70.5	SMALL TUMORS R EYE
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*9178 R 9179 NO GOOD 9180 L 9181 L HAND BBA 446 (THRU 3RD SCALE)	76.9/NO MARK	83.5	
---	--------------	------	--

THE END! BYE!

2 Blue point in net (1 was Y-455)

+ 27 new CAPTURES

(11.1%) 3 Recoveries
(18.5%) 5 Tumors

May

533 10/10

899 6/3

25 turtles 7/

3625 6/10

43 turtles 7/

13 turtles 3

*p.

Hic

Geor
143 green
cooperativ
Fibropapil
in the san
debilitati
turtle eve

May 82 = first tagging by Bill Puleloa

HISTORICAL

Summary of Tumor

TAGGED	occurrences / on	SL	CCL	Bill	SINCE 5/82
9523	10/16/85 [*] Palau (w. of house)	78.0	84.5	Bill	APPROX. No. Turtles ~300
66899	6/3/87 " "	52.1	54.5	ME	~350
125 turtles	7/88 Palau	6 w/tumors	4.8%	ME	
8625	6/10/89 Kawela (Bead)	81.0	—	Bill	~520
143 turtles	7/89 Palau	14 w/tumors	9.8%	ME	~670
13 turtles	3/90 Palau	5 w/tumors	38.5%	Bill	

^{*}p. 16 Balazs et al. (1987) Preliminary Assessment of Habitat Utilization... TM-71.
... "first such case known for the island of Molokai."

HILITES? - STAFF meeting minutes: week of 7/10/89

George Balazs reports that he was able to tag, measure and examine 143 green turtles in the coastal waters of Molokai last week during cooperative research with a commercial "bullpen" fisherman. Fibropapillomas were found on 9.9% of the turtles. Similar sampling done in the same area in July 1988 identified only 4.8% of 125 turtles with this debilitating tumor disease. The first known case of a tumor-afflicted turtle ever reported for the island of Molokai occurred in October 1985.

SUMMARY OF 143 GREEN TURTLES TAGGED AND RESIGHTED AT PALAAU, MOLOKAI,
4-7 JULY 1989.

Compiled by George H. Balazs, Bill Puleloa, and Ed Medeiros

Inconel tag No.	Plastic tag No.	Straight length (cm) standard/notch	Curved carapace length (cm)	Notation
4-5 July 1989, Site A (77 turtles)				
Y-355*, 56		52.4	56.0	
Y-357*, 58		55.3	60.0	
Y-359*, 60		65.6	71.0	Healed indent in right carapace
Y-361*, 62		54.9/54.4	58.0	
Y-363*, 64		56.9/56.7	61.0	
Y-365*, 66		60.4/60.1	65.5	
Y-367*, 68		59.8/59.4	64.0	
Y-369*, 70		45.7/44.8	48.0	
Y-371*, 72		47.9/47.3	51.0	
Y-373*(3-4), 74		45.6/45.4	48.5	
Y-375*, 76, 77(H)		67.7/67.0	73.0	
Y-378*, 79		59.2/59.0	63.0	
Y-380*, 81		54.2/56.0	58.5	
Y-382*, 83(H), 84	BBA401	73.0/72.7	80.0	
9877*, 78	Gr-Hz	61.7	67.0	a
Y-385*, 86, 87(H)		68.7/68.6	74.5	LH 1/4 missing
Y-388*, 89, 90(H)	BBA402	74.3/74.0	80.0	
Y-391*, 92		65.1/64.9	71.0	
Y-393*, 94	BBA403	72.8/72.3	78.5	
Y-395*, 96		66.6/66.4	71.0	
Y-397*, 98	BBA404	72.1	76.5	
Y-399*, 400		72.1/71.2	77.5	LFF 3/4 missing
6109*, Y-401	BBA405	85.3/85.1	91.5	Adult male w/small Lepas; tagged 6/82 East Is., FFS PC's freshly factured
Y-402*, 03	BBA406	75.9	81.0	
Y-404*, 05		69.1	73.5	
Y-412*, 13		75.1/74.9	79.5	
Y-414*, 15		64.1	68.0	Carapace disfigurement
Y-416*, 17		50.9/50.5	55.0	Y416 close to edge
Y-418*, 19		57.4/57.3	61.5	
Y-420*, 21	BBA407	62.8/62.3	68.0	
Y-422*, 23(3-4)		62.9/62.7	67.0	TMR LFL
Y-424*, 425		60.4	65.5	
Y-426*, 27	BBA408	69.3/68.7	76.0	
10873*, 74		63.1/62.9	68.0	b
Y-428*, 29		55.4	55.0	

Continued.--Summary of turtles at Palaau, Molokai.

Inconel tag No.	Plastic tag No.	Straight length (cm) standard/notch	Curved carapace length (cm)	Notation
9492*,93		54.0/53.7	58.5	c
6682*,83		48.5	52.0	d; TMR-neck
Y-407*,08		51.4/51.1	55.5	
9415,16		55.0/54.4	58.5	e
Y-410,11(3-4)		50.1/49.8	53.5	TMR-RFL, neck
Y-406,09		56.5/56.1	60.5	
Y-430,31		57.8	63.0	
10789,90		46.2/45.8	50.0	f
Y-432,33		48.5/48.2	51.5	TMR-eyes and RFL
Y-434,35		45.7/45.5	47.5	
Y-436,37		42.7/42.2	45.0	
Y-438,39		43.9/43.2	47.0	
Y-440,41		44.2	47.0	
Y-442,43		62.3	66.0	PC's missing-healed
Y-444,45		52.9/52.4	56.0	
Y-446,47		62.9/62.7	67.5	
Y-448,49		71.7/71.4	77.5	
Y-450,51		46.9/46.4	49.5	
Y-452,53		67.9	73.0	
Y-454,55		64.1	68.0	
Y-456,57		57.8	62.5	TMR-eye; carapace indentation
Y-458,59		58.5/58.3	62.0	10th marg. piece missing
Y-460,61		46.8/46.5	50.0	
7908,09		61.3	65.5	g; TMR-eyes
Y-462,63		67.5	72.0	
Y-464,65		49.3/48.9	52.5	
Y-466,67		60.6	65.5	
Y-468,69		57.8	61.2	
10785,86	Ye-Bf	62.4/62.3	65.0	h
Y-470,71		55.7/54.3	59.0	Fractured PC-healed
Y-472,73		61.1	65.0	
Y-474,75		55.9/55.7	60.0	
Y-476,77		52.7/52.4	55.5	
Y-478,79		66.3	70.5	
Y-480,81		69.7/69.4	75.5	
Y-482,83		66.0	71.5	Massive TMR
Y-484,85		49.2	53.0	
Y-486,87		52.9/52.8	57.0	
Y-488,89		51.7	57.5	Healed injury to PC
Y-490,91		61.1/60.0	65.0	
Y-492,93		61.1	65.0	
Y-494,95		54.5/54.2	58.5	

Continued.--Summary of turtles at Palaau, Molokai.

Inconel tag No.	Plastic tag No.	Straight length (cm) standard/notch	Curved carapace length (cm)	Notation
5-6 July 1989, Site A (38 turtles)				
Y-496*, (3-4), 97		43.2/42.9	45.0	Massive TMR; photos
Y-498*, 99		55.2/54.7	59.0	
Y-500*, 01		61.7	66.5	
Y-502*	BBA409	69.7/69.0	75.0	
Y-503*, 04		51.7/51.6	55.0	
Y-505*, 06		57.2/57.0	61.5	
Y-507*, 08		55.1/54.9	59.0	
8525*, 26	BBA410	55.7/55.6	60.5	
Y-509*, 10		65.5/65.2	70.5	
Y-511*, 12		58.9/58.8	63.5	
Y-513*, 14		50.5/50.1	53.5	
Y-515*, 16		58.0/57.5	62.0	
Y-517*, 18	BBA411 (FL)	70.3	74.5	
Y-519*, 20(3-4)	BBA412 (FL)	67.3	72.5	
Y-521*, 22	BBA413	77.1	83.5	
Y-523*, 24	BBA414	60.8/59.9	65.5	LH deformed
Y-525*, 26	BBA415	69.4	75.0	
Y-527*, 28	BBA416	59.4/59.2	63.5	
Y-529*, 30		52.4/52.1	56.0	
Y-531*, 32		57.5/56.9	56.5	7 centrals, 5 L laterals
Y-533*, 34	BBA417	80.7	86.5	LH amputated; 31 cm tail, male
Y-525*, 36		56.0	60.5	
Y-537*, 38	BBA418	66.2	71.0	
Y-539*, 40		50.0/49.9	54.5	
Y-541*, 42	BBA419	62.6/62.5	68.0	
Y-543*, 44	BBA420	64.3/64.0	69.0	
Y-545*, 46	BBA421	63.8/63.5	68.0	
Y-547*, 48	BBA422	65.7/65.6	70.5	TMRs-eyes, flippers
Y-549*, 50	BBA423 (FL)	73.4/73.3	79.5	
Y-551*	BBA426	64.4/64.0	70.5	
Y-552*, 53		49.3	52.5	
Y-554*, 55		40.7/40.4	43.0	Left eye "brow" missing
Y-556*	BBA427 (FL)	56.0/55.0	61.0	3 large barnacles removed
Y-557*, 58		52.3	56.0	
Y-559*	BBA428	53.7/53.4	57.5	
Y-560*, 61		49.6/49.5	52.5	
Y-562*, 63		53.0/52.8	56.0	
Y-564*, 65		59.9/59.6	64.0	

Continued.--Summary of turtles at Palaau, Molokai.

Inconel tag No.	Plastic tag No.	Straight length (cm) standard/notch	Curved carapace length (cm)	Notation
6-7 July 1989, Site G (27 turtles)				
6414, 15 Y-566(H)	BBA429	71.0	76.0	j; TMR-eyes, flippers
Y-567*, 68	BBA424	64.7/64.4	69.0	
Y-569*, 70	BBA430	77.7/77.4	83.0	
Y-571*, 72	BBA431	63.5/63.3	68.0	
Y-573, 74		44.1/43.9	47.0	
9603*, 04	BBA432	64.9/64.7	69.0	k
Y-575*, 76		57.7/57.5	62.0	
Y-577*, 78	BBA433	68.2/67.9	73.5	
Y-579*, 80		52.7/52.4	57.0	
7932*, Y-581	BBA434	72.5/72.3	77.5	l
Y-582*, 83		53.8/53.3	58.0	
Y-584*, 85		56.4/56.3	60.0	
Y-586*, 87		59.1/59.0	62.5	
Y-588*, 89	BBA440	69.3/68.6	74.5	Massive TMR; photos
Y-590*, 91		54.5/54.2	58.0	
Y-592*, 93	BBA425	66.6/66.5	71.0	
Y-594*, 95	BBA435	48.8/48.7	52.0	Healed indent to L marg. Engraved L; photos
Y-596*, 97	BBA436	63.7/63.4	69.0	
9163*, 64	BBA437	56.3/55.7	61.5	
9165*, 66	BBA438	60.8/60.5	65.6	6 centrals
9167*(3-4), 68	BBA439	69.5	75.0	TMR-eyes, flippers
9169*, 70	BBA441	65.8	70.5	
9171*, 72, 73(H)	BBA442?	70.7/70.6	76.5	
Y-598*, 99	BBA443	89.3/89.0	95.0	Female w/healing; mating wounds; LFL tag tear; HF = 34.5 x 20.0
Y-600(H)				
9174*, 75	BBA444 (3S)	81.0	86.0	TMR; shark scratches? Noise when breathing; HF = 34.0 x 18.5 TMR-eye
9176*, 77	BBA445 (3S)	65.0/64.6	70.5	
9178*, 80, 81(H)	BBA446 (3S)	76.9	83.5	

* - Engraved into 1st lateral right scute using a Dremel "free-wheeler" tool. Spherical bit used 5 and 6 July. Cylindrical bit used 7 July.

BBA = Plastic Dalton ^{Jumbo Roto} Riese tags (colored blue) supplied by NMFS Miami. Prepunched and applied in webbing between 3d and 4th scales of left front flipper, except as noted otherwise.

TMR = Fibropapillomas on 14 (9.9%) of the 143 turtles handled.

a-1 = 12 (8.4%) Palaau tag resightings of the 143 turtles handled.

7-17-89 Telecon from Bill Puleoa - "A day or two (ie 7/19/89)
 After I left Molokai, Ed Medeiros and Mike _____
 captured by hand an adult male TAG 7154 AT _____
 PALAAU. This turtle originally tagged 6-83 at FFC _____

Date Tagged: August 30, 1989

Location Caught: Kaluaaha, Molokai

Method of Capture: Found entangled in discarded gill net in 10-15 feet of water

Number	Curved Length (cm)	Curved Width (cm)	Tag Number On Left Front Flipper	Tag Number On Right Front Flipper
1	60.0	53.5	9182	9183
	Animal found by skin diver. Tumors on head and other parts of its body. Left eye completely blinded by large tumor. Right eye approximately 90% covered by another tumor. Turtle was still strong and vigorous at time of release at Pukoo Harbor.			

Remarks: 647 turtles tagged to date with 74 recoveries.

Date Tagged: November 14, 1989

Location Caught: Kawela

Remarks: 647 turtles tagged to date with 74 recoveries.

Date Tagged: November 14, 1989

Location Caught: Kawela

Method of Capture: Incidental catch in fisherman's nets

Number	Curved Length (cm)	Curved Width (cm)	Tag Number On Left Front Flipper	Tag Number On Right Front Flipper
1	57.0(53.0)	47.0(40.0)	9184	9185
2	53.5(50.5)	47.5(39.0)	9186	9187
3	48.0(46.0)	42.0(35.0)	9188	9189
4	81.5(74.5)	73.5(60.0)	9192	9193
5	63.0(59.0)	55.0(45.0)	9190	9191
6	57.0(53.5)	48.0(41.0)	9194	9195

Note: This turtle was badly tumored but still vigorous upon release.

Note: Turtle number six had many small tumors on all soft parts.

All animals release outside of Kanoa Fishpond.

653 turtles tagged to date with 75 recoveries.

Something can't be! can't connect.
10/Jan Reported at East nesting summer 1992
ENB GHB 5/20/92

* * * * * TURTLES TAGGED ON MOLOKAI * * * * *

Date Tagged: November 15, 1989Location Caught: KawelaMethod of Capture: Incidental catch in fisherman's nets

<u>Number</u>	<u>Curved Length (cm)</u>	<u>Curved Width (cm)</u>	<u>Tag Number On Left Front Flipper</u>	<u>Tag Number On Right Front Flipper</u>
<u>1</u>	<u>54.0(50.5)</u>	<u>48.5(40.5)</u>	<u>9196</u>	<u>9197</u>
<u>2</u>	<u>44.5(42.5)</u>	<u>40.0(34.0)</u>	<u>9198</u>	<u>9199</u>
<u>3</u>	<u>62.0(58.0)</u>	<u>52.5(44.5)</u>	<u>9200</u>	<u>9201</u>

Note: Turtle number three had tumors on soft parts.659 turtles tagged to date with 75 recoveries.All turtles released outside of Kanoa Fishpond.Date Tagged: December 3, 1989

Location Caught: _____

Date Tagged: December 3, 1989

Location Caught: _____

Method of Capture: _____

<u>Number</u>	<u>Curved Length (cm)</u>	<u>Curved Width (cm)</u>	<u>Tag Number On Left Front Flipper</u>	<u>Tag Number On Right Front Flipper</u>
<u>1</u>	<u>98.0</u>	<u>88.5</u>	<u>n/a</u>	<u>n/a</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

This turtle was found dead on a remote stretch of beach at Ualapue, Molokai. The right front flipper was missing and its left front flipper displayed indications that it was bitten by a shark. In addition, numerous tumors was noticed on the soft parts of its body. The carcass was pulled ashore and buried in the bushes. Incident reported to NMFS.

Need

- ① Full wet suit or pants -
- ② Pliers to Bill to replace ones he lost (tags lost too?)
- ③ Check shoreline for pellets. - low tide please
- ④ Fred Bicoy - Turtles w/TMRs?
Rene Silva?
Billy Kilipe

(checked
were found
But occasionally
one found
on bottom
inside
bullpen

WEDNESDAY
28 FEB

1 MARCH 9

WEDNESDAY
28 FEBRUARY 90

PALAAU, MOLOKAI

99

Depart alone HA Dash - 3:35 PM
for Molokai - ① Blue dive bag ② Igloo
gray cooler ③ White large Samsonite
④ Caliper & McNARE long Bang stick

Raining and cool (65°F). Site A
Ed set net this morning. TIME = _____
reports calm, no waves.
Water clear in spite of rain.

Pau Hana w/ Hawaiian Getaway
\$69 per day. Ash Wed. Service.
Dinner at Hop INN.
Groceries at store (Salmon Pilot, peanut butter,
Rabbits, Gator Aid).

TUMORS -

1 = END OF LITTLE FINGER.

2 = Thumb to index-to-thumb circle.

1 MARCH 90 3 = Larger than " " " " " "

Thurs Depart dock ~ 7:45 am - cold and
rainy. North wind came up mid morning.
Mike, ~~Tommy~~, Walter, Pitt, Bill
Puleloa, Ed and we. Clean water -
68°F ~ 20.5°C

Only one turtle in net - 7ml ant tail.
3 small ones on Right eye.
Fish - lots of Mo'i, weke (+ striped tail)

1 small hammerhead & Melanostis.

Net moved to the east and
reset inshore of site "C" in
shallow water.
Returned to Dock in 2 pm.
Cold, cold, cold!

Summary of green turtles tagged and resighted at Palaau, Molokai
11-15 July 1988.

Compiled by George H. Balazs
Southwest Fisheries Center Honolulu Laboratory
2570 Dole Street
Honolulu, Hawaii 96822-2396

Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
7/11-12/88 Site A (19 turtles with 3 tag resightings)				
10756-58	gr-HF-b1	93.9	100.5	female; tumor
10759-60	gr-HG-b1	67.2	72.0	
10762-63	gr-HB-b1	75.2	80.5	
10764-65	gr-HD-b1	64.6	69.0	
10766-67	gr-HJ-b1	62.8	67.0	
10768-69	or-PH-b1	54.7	58.0	
10770-71	--	43.4	46.5	
*9884-85	--	41.3	44.0	a
10772-73	--	48.9	52.0	
10774-75	--	44.7	47.5	stomach sampled
10776-77	--	47.5	51.0	
*9589-90	--	50.1	54.5	b
10778-80	rd-MH-b1	75.7	81.0	
*7947, 49	--	60.8	65.5	c
10781-82	gr-HR-b1	67.0	71.5	
10783-84	--	45.4	48.5	
*10785-86	ye-BF-b1	59.6	64.5	7/15/89 Recov. stomach sampled
10787-88	--	48.9	52.5	
*10789-90	--	42.7	45.0	7/15/89 Recov.

Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
7/12-13/88 Site A (19 turtles with 3 tag resightings)				
10791-92	gr-HP-b1	62.1	66.0	
10793, 95	--	50.6	53.5	
10796-97	gr-HK-b1	63.2	67.0	
10799-800	gr-HM-b1	61.3	66.5	
10801-02	gr-HW-b1	59.9	64.0	
10803, 05	--	54.4	58.5	
*9877-78	gr-HZ-b1	59.8	64.5	7/15/89 Recov. d
10806-07	gr-HY-gr	59.8	64.0	
*7945-46	--	47.9	50.5	e
10808-09	--	54.1	57.5	
10810-11	gr-HU-gr	66.3	71.5	
10812-13	or-PR-rd	62.7	69.0	
10814-15	ye-BA-or	61.6	65.5	
10816-17	--	43.5	46.3	
10818-19	or-PG-or	53.3	57.0	tumors; stomach sampled
10820-21	--	51.2	48.5	
10822-23	--	39.7	42.0	
10824-25	--	49.7	53.0	
*9874-75	--	56.2	60.0	mortality; f

3

Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
7/13-14/88 Site K (65 turtles with 8 tag resightings)				
10826-28	rd-AB-or	74.7	78.5	
10829-30	rd-AG-or	68.0	72.5	
*7835-36	or-PB-or-	72.2	77.0	tumors; g
10831-32	--	59.8	64.5	
10833-34	ye-BD-or	68.1	73.5	
10835-36	--	47.7	51.0	
10837-38	--	48.5	52.5	
10839-40	--	53.4	57.5	
10841-42	or-FW-rd	62.1	67.0	
*6539-40	--	54.0	57.5	h
10843-44	ye-BJ-rd	69.3	75.5	tumors
10845-46	ye-BS-rd	67.4	72.5	
*8527-28	--	56.1	59.5	i
10847-48	--	49.7	53.0	
*9486-87	ye-BL-rd	61.7	66.5	j
*8543-44	ye-BW-rd	59.6	65.5	k
10849-50	--	60.6	65.0	
10851-52	ye-BZ-rd	62.9	67.5	
10853-54	--			
10855-56	ye-BU-bl	73.7	79.0	

Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
(SITE E 7/13-7/14 CONTINUED)				
10857-58	--	52.5	56.5	
10859-60	--	49.3	53.0	
10861-62	--	56.8	59.0	healed notch
10863-64	--	51.1	54.5	6 centrals
10865-66	--	56.3	61.5	
10867-68	ye-BG-rd	72.5	78.0	
10869-70	--	51.4	54.0	
10873-74	--	61.2	65.5	7/5/89 RECOV.
*8601, 8650	--	47.1	50.5	1
10875-76	--	56.8	60.5	
10877-78	--	56.3	60.5	
10879-80	ye-BP-rd	63.4	69.0	
10881-82	--	53.6	58.0	
10883-84	--	54.5	58.0	
10885-86	--	50.7	53.5	
10887-88	--	52.5	56.5	
10889-90	--	52.7	57.0	
10891-92	ye-BK-rd	64.2	69.5	
10893-94	--	48.7	52.0	
10895-96	--	60.1	65.0	
10897-98	--	54.0	58.0	
10899-900	--	40.9	43.5	

5

Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
(SITE E 7/13-7/14 CONTINUED)				
10901-02	--	40.4	43.0	
10903-04	ye-BR-b1	72.7	78.5	
10905-06	--	46.0	49.5	
10907-08	--	46.8	50.0	
10909-10	--	57.1	60.5	
10911-12	--	57.9	62.0	
*8519-20	--	56.6	62.0	m
*7825-26	--	46.9	50.0	n
10915-16	--	62.7	67.5	
10917-18	--	62.1	67.5	
10919-20	ye-BM-rd	69.4	76.0	
10921-22	--	60.2	65.0	tumors
10923-24	ye-BY-rd	72.1	78.0	tumors
10925-26	--	56.3	59.5	
10927-28	ye-BN-rd	74.7	81.0	
10929-30	--	45.4	48.0	hawkbill
10931, ³² / ₃₃	--	54.4	58.5	
7 10934-36	--	65.9	71.0	
10932, 37	--	59.4	64.0	
10938-39	--	63.0	69.0	
10940-42	--	69.4	75.0	

Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
7/14-15/88 Site E (23 turtles with 2 tag resightings)				
10943-44	--	45.1	48.5	
10945-46	--	55.1	58.0	
10947-48	--	48.7	53.0	
10949-50	wh-MW-or	65.4	69.5	
10951-52	--	57.6	62.5	
10953-54	--	46.0	49.0	
10955-56	--	41.5	43.5	
10957-59	--	57.0	61.5	
10960-61	--	50.5	53.0	
*7875, 7926	wh-MY-or	62.3	67.5	o
10962-63	--	47.1	49.5	
10964-65	--	50.2	53.5	
10966-67	--	53.0	56.0	healed notch
10968-69	--	49.0	51.5	
10970-71	--	55.5	58.5	
10972-73	--	53.7	57.5	
10974-75, 11000	wh-MP-or	80.1	86.5	
10976-77	wh-MD-or	65.5	70.0	
*8531-32	wh-MM-or	69.0	74.0	p
--	wh-MK-or	57.2	61.0	
10978-79	wh-MB-or	63.1	67.5	

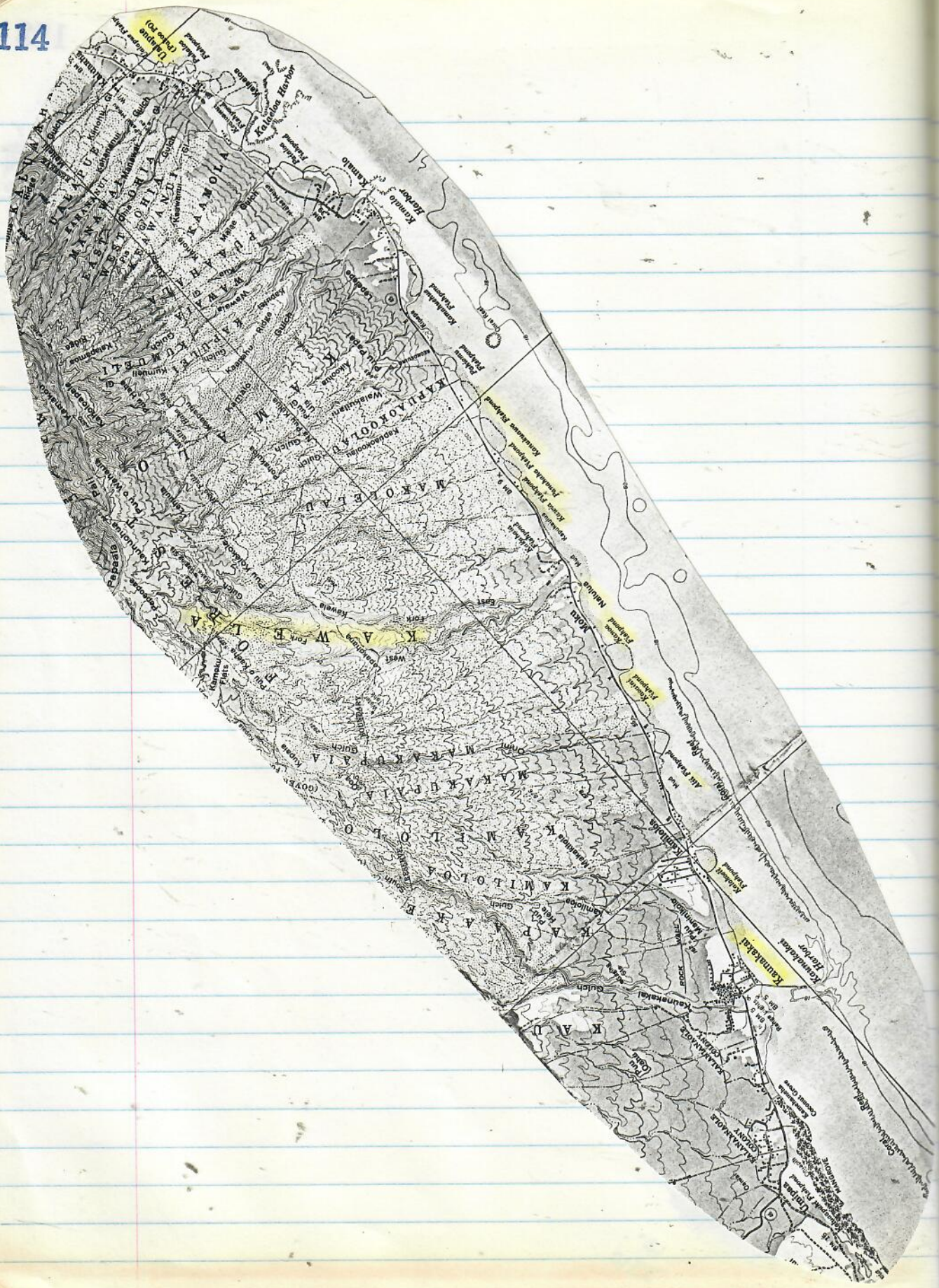
8

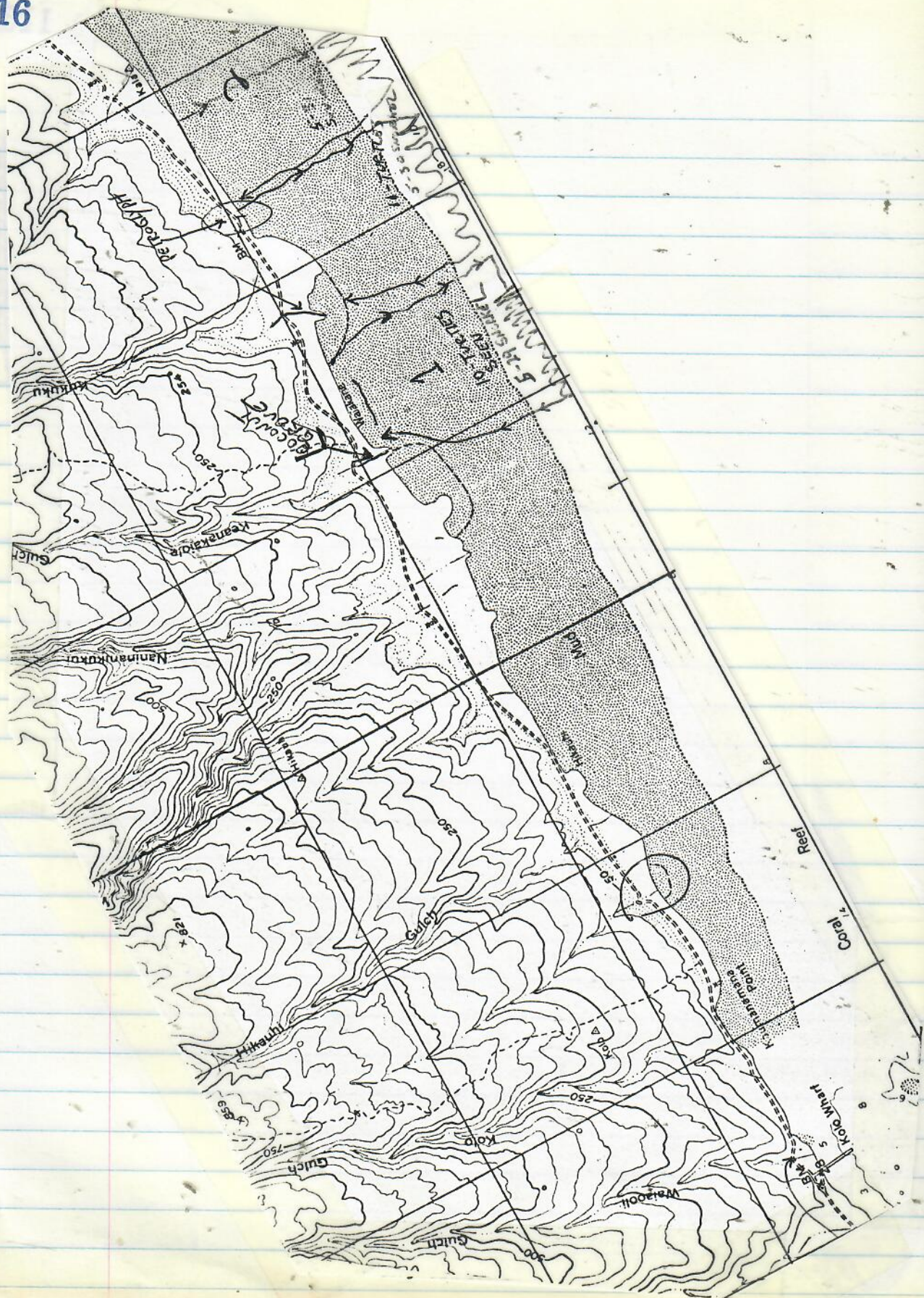
	Tag No.	Initial straight carapace length, (cm)	Recapture interval, (yr/mo)	Growth rate, (cm/yr)
h	6539-40	40.5 (curved meas.)	5-9	2.96 (1-1/8 in)
i	8527-28	48.8	3-0	2.43 (1 in)
j	9486-87	57.0	2-9	1.71 (5/8 in)
k	8543-44	51.8	3-0	2.59 (1 in)
l	8601, 8650	40.6	3-3	2.00 (3/4 in)
m	8519-20	49.0	3-0	2.53 (1 in)
n	7825-26	39.6	3-0	2.43 (1 in)
o	7875, 7926	56.5	3-3	1.78 (3/4 in)
p	8531-32	58.7	3-0	3.43 (1-3/8 in)
Mean -		50.7 38.8-68.6	31 months 13-39 mo	2.15 (7/8 in) 0.65-3.43

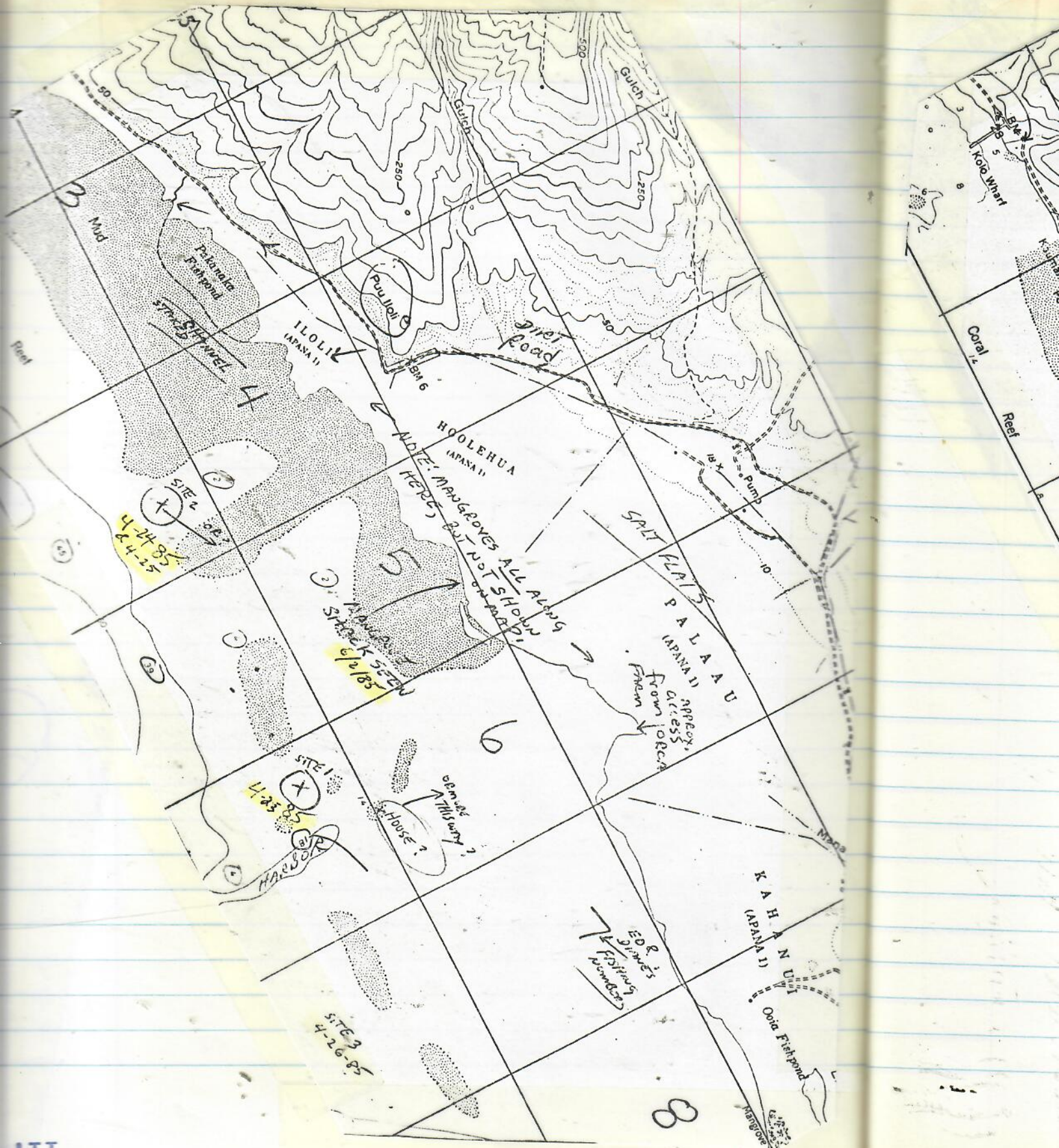
Inconel tag No.	Colored plastic tag No.	Straight carapace length, (cm)	Curved carapace length, (cm)	Notation
10980-81	wh-MR-or	65.4	70.5	
10982-83	wh-MG-or	65.0	70.5	
7/11/88 (5 captive-reared Sea Life Park green turtles released at Palau)				
D156, D157 (10751)	--	26.8	--	
D171 (10752)	--	21.8	--	
D166, D167 (10753)	--	24.1	--	pc's partly missing
D164, D165 (10754)	--	25.9	--	
D158, D159 (10755)	--	21.7	--	

*Growth rates for tag resightings at Palau.

Tag No.	Initial straight carapace length, (cm)	Recapture interval, (yr/mo)	Growth rate, (cm/yr)
a 9884-85	40.6	1-1	0.65 (1/4 in)
b 9589-90	47.0	1-10	1.69 (5/8 in)
c 7947, 49	51.9	3-3	2.74 (1-1/16 in)
d 9877-78	57.4	1-1	2.22 (7/8 in)
e 7945-46	38.8	3-3	2.80 (1-1/16 in)
f 9874-75	54.0	1-1	2.03 (3/4 in)
g 7835-36	68.6	3-0	1.20 (1/2 in)







THROWNET

Minimum size (mesh):

Two-inch minimum mesh size for commercial fishing. One and one-half inch minimum mesh size for sport fishing (home consumption), provided after July 1, 1988 it becomes unlawful to sell thrownets with mesh size less than 2 inches, and after December 31, 1994 possession or use of thrownets with mesh size less than 2 inches in or near the water where fish may be taken also becomes unlawful. **In effect for all counties.**

GILL, LAY, DRAW, DRAG OR SEINE, OR OTHER NETS

Minimum size (mesh):

Two (2) inches stretched measure. **In effect for all counties.**

Restriction on use of gill nets:

- a) Unlawful to leave any gill net unattended for a period of more than 12 hours. In effect for all counties.
- b) Unlawful to discard or otherwise dispose of any fishing net, trap, or gear, or parts thereof, in the waters of the State.

Exceptions:

- a) Licensed pond operators or owners may use nets of smaller mesh to take younger mullet or pua to stock their fishpond. **In effect for all counties.**
- b) Commercial Marine licensees with a Bait License may use nets of smaller mesh to take baitfishes for use as bait. **In effect for all counties.**
- c) Aquarium Fish permittees may use nets of smaller mesh to take aquatic life for aquarium purposes. **In effect for all counties.**
- d) All persons may use nets of smaller mesh to take shrimp or opae, opelu, makiawa or mikiawa. **In effect for all counties.**
- e) All persons using surround nets with SCUBA may use nets of not less than one and one-half (1½) inches to bag and transport fish captured with legal gear to the shore or boat. **In effect for all counties.**

JUNE 1988 DIGEST



NOTE: See special provisions relating to the taking of the baitfish, nehu, and akule and hahalalu. See also special provisions affecting particular areas.

TRAPS

Minimum size (mesh and dimensions):

- a) Two (2) inches stretched measure. Traps must be portable and not exceed ten (10) feet in length or six (6) feet in height or width. **In effect for all counties.**
- b) Total length of a "**bullpen**" trap shall not exceed 2,000 feet (includes the length of the guide(s) and pen) and total soak time will not exceed 16 hours. Bullpen traps must be set more than 1,000 yards from shore except on Molokai where they may be set within 500 yards from shore west of Kaunakakai Wharf and 200 yards from shore east of Kaunakakai Wharf. The Department of Land and Natural Resources is authorized to designate other areas of similar characteristics where bullpen traps may be used within 1,000 yards from shore.

Exceptions:

Aquarium Fish permittees may use traps of smaller mesh to take aquatic life for aquarium purposes. **In effect for all counties.**

NOTE: Usually traps are prohibited where gill nets are prohibited.

1117 DLNR Bullpen

16-19 JULY 1985 MOLOKAI
(BULL-PEN) p. 4-65

TAG SERIES USED - 8519 - 8550 (32)

7748 (1)

7792 - 7800 (9)

7801 - 7850 (50)

9401 - 9467 (67)

TOTAL TAGS USED - 159

5-7 JULY 89
Y-355 TO Y-600; 9163-9181
BBA401 TO BBA446

9476 - 9550 (75)

9393 - 9400 (8)

TOTAL = 83

Sent to Bill on 7/24/85
Puleloa

28 FEB - 90
2 MARCH 90
SITE A & C (2 days)
Y-601 - 636
+ 9202
1

Bill Puleloa
Box 175
KUALAPUU, MOLOKAI 96757

SITE =
3-4 JUNE 1987
BULLPEN w/ MEDBROS - REC

3 JUNE - 10 (1)

4 JUNE - 17 (3)

27

TAGS USED =
9795
9799 - 9800
9841 - 9889
(9857 NOT USED)

TAGS TO PULELOA, CONTINUED

2-2-84 6676 - 6700 (25)

6726 - 6750 (25)

7225, 7226 - 7250 (25)

5-22-84 7851 - 7950 (100)

ENT
EXC

4/26/85 8602 - 8625 (24)

8812 - 8825 (14)

8826 - 8850 (25)

"
63 total

TAGS SENT TO Bill Puleloa
FOR USE ON MOLOKAI -

5-12-82 - 6426 - 6435 (10)

5-19-82 - 6446 - 6450 (5)

6376 - 6425 (50)

9-8-82 - 6451 - 6475 (25)

ED & MARGIN
ED & MARGIN
ED & MARGIN

6526 - 6550 (25)

6551 - 6600

Made in U.S.A.

10-19-82

10-31-82 6601 - 6650

7-8-83: 7276 - 7350 (75)

11-15 JULY 88

ED - BULLPEN CHARTER

10,750 - 10,983 + 11,000

+ Recse TAGS - GRN, OR, RED, YEL TOPS w/ 2 ALPHABET LETTER

(22-26 APRIL 1985) Molokai ED. CHARTER for BILL PEN (me & Robert) - P. 37-71
 21-24 MAY 1985 ZODIAC TO MOLOKAI P. 77-89
 28 MAY-3 JUNE 1985 Molokai (me & KAM) P. 89-103

22-26 APRIL 85 TAG NOS.

7942-7950 (9)
 7901-7925 (25)
 7876-7900 (25)
 8569-8600 (33)
 8626-8650 (25)
 8601 (1)

TOTAL USED - 118

ED & DIANE Tel. 553-5702



Bill Puleoia
 Box 175
 KUALAPUU,
 - 96757
 553-3778

AIR MOLOKAI -
 553-3436
 MOLOKAI

TAGS LEFT FOR BILL 4/26/85 -

COMPOSITION BOOK

9 3/4 IN. x 7 1/2 IN. (24.8 cm x 19 cm)

AVAILABLE AS:

No. 09-9130 (1130) 60 SHEETS COLLEGE RULED & MARGIN
 No. 09-9132 (1130-P) 60 SHEETS COLLEGE RULED & MARGIN
 No. 09-9134 (1143-X) 100 SHEETS COLLEGE RULED & MARGIN
 No. 09-9132 (1130-P) NUMBERED PAGES

Made in U.S.A.

VERNON McMILLAN, Inc., ELIZABETH, N.J. 07208

8602-8625 (24)
 8812-8825 (14)
 8826-8850 (25)
 TOTAL - 63

21 MAY-3 JUNE 85

8453-55 (3) 1
 8458-63 (6) 5 WORKING

TOTAL - 9

LIBRARY OF GEORGE H. BALAZS

8456, 8457 (USED AT MAUI ELECTRIC)

INCOMEZ

Size 681

TAGS

5-7 JULY 1989

SEND NMFS LAB VIRGINIA KEY 33149 MIAMI, FL 33149

+ BLUE DARTON PLASTIC BB4401 - BB4446 (FROM LARRY GREEN)

Y-355 Through Y-358

Y-355 Through Y-358

BB4401 - BB4446

GEORGE H. BALAZS

ZOOLOGIST
MARINE MAMMALS AND
ENDANGERED SPECIES PROGRAM



MEMBER, IUCN MARINE TURTLE SPECIALIST GROUP

NATIONAL MARINE FISHERIES SERVICE
2570 DOLE ST.
HONOLULU, HAWAII 96822-2396

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

146.94 MAUI Repeater

1114 DLNR BULPEN

Subject: Re[4]: FFS tag data books

Forwarded with Changes

From: George Balazs [2/13/93 9:19AM (2406 bytes: 43 In)

To: Shawn Koga

Subject: Re[4]: FFS tag data books

Message Contents

George... I checked Molokai tags 9651/9652 and 9795... it does not say recaptured therefore I assume it's newly tagged. I don't have a hard copy for tag 9292 so I can't check that one. None of these say resighted for Molokai.

Shawn- Looks to me that these are all valid- Tagged at Molokai or FFS, and then resighted at the other end of the migration- ie Molokai or FFS. If I'm correct, and that's the case, there shouldn't be a problem entering them. Correct? Or have I overlooked something? geo.

→ See 1986 Books

(Wow this message is long!!!)

Shawn - Should be 9669
6/4/86
7/1/86

- ✓ Tag 9292 found on TC18 on 6/13/85 and on Molokai 3/1/90 with tags 7240 and Y633
- ✓ Tag 9651/9652 from 4/25/86 and on Molokai 3/10/88 same tags.
- ✓ Tag 6696 found on TC4 on 7/1/84 and on Molokai 4/25/84 (this one tag could've possibly been read wrong, the other tag was 6698 and reportedly 6699 was also on).
- ✓ Tag 9795 from 7/12/86 and on Molokai 6/3/87.

This is all of the tags that are same as Molokai turtles. I have other questions concerning the dates and other things.

NOT used at FFS in 1986. I brought this tag back with me so deleted from M. Major 1986 green book.

Used on Molokai turtles, AND at FFS? Please give me a few quick tag series examples on the email. I'll try to get with you before today is 3/4 over. geo.

TDPs

6696
(w/6697)
4/25/84
Molokai

4/25/84
6698
6699
Molokai
TDPs

I guess I would like you to answer the questions first. A lot of them have tags that were the same as the ones you used for Molokai turtles or found on another turtle. The 1987 data has a list of turtles, but there are no dates to correspond with it. Help! Just let me know when I can see you about this.

Which would you best like me to do first. Bring more books, or answer questions about 1987? Are the questions extensive?

The books you gave me were 1985 (2 books), 1986 (2 books) and 1987 (1 book). I briefly looked through TDPs and saw that 1988-1993 is entered in there. I still have to enter 1987, but I have some questions before I enter it. I wouldn't mind double-checking some of the entries though to make sure everything's in there. Thanks!

What years are the ones you now have, ie recently finished? What years of nesting at FFS are in TDPs besides these? Is 1987 there? 1986? and any earlier? I'm fairly certain 1988 is all entered. I don't have the time right now to check, and when I went to pull out some new book for you yesterday I wasn't sure which ones I should take. geo.

TDPs Molokai 2/28-3/2/90

9292 11/15-11/16/91 9227-9250 Molokai

9651/9652 not used on Molokai TDPs YES Kowala 3/10/88 40cm

7240 Y633

6696 6698 6699 2/2/84 Molokai

9795 6/3-6/4/87 Molokai

Check

MOLOKA (1) (1)

3/10/88 - 9651, 9652

No These were
9151 9152

also same date
9654

Book 5 - pages 7 and 11

9653 showed

7240 and Y633 has also

be 9153

9202 not 9292

9154

~~need to~~
correct

in Shaun's
hand copy

