

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

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

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

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

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

Expedition 1, 26 Nov. 1983, 3 turtles captured.

Expedition 2, 15-19 Dec. 1983, 12 turtles captured (1 long- and 1 short-term recovery).

Expedition 3, 8-10 Jan. 1983, 13 turtles captured (2 long- and 2 short-term recoveries).

Expedition 4, 17-19 Feb. 1983, 12 turtles captured (2 long-term recoveries).

Expedition 5, 23-28 Mar. 1984, 31 turtles captured (2 long- and 9 short-term recoveries).

Expedition 6, 13-14 Apr. 1984, 5 turtles captured (2 short-term recoveries).

Expedition 7, 14-17 May 1984, 11 turtles captured (4 short-term recoveries).

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

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

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

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

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

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

compiled by G.H. Balazs

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

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

Tag No.	Date recovered and size	Date/location originally tagged	Interval (months)	Increase in carapace length		Mean yearly growth rate	
				cm	inches	cm	inches
2877	12-18-83 23.7 inch carapace	8-31-78 Punaluu	63.5	18.9	7.4	3.6	1.4
2514	1-8-84 30.7 inch carapace	1-23-78 Punaluu	72.0	20.8	8.2	3.5	1.3
5501	1-9-84 29.6 inch carapace	7-28-81 Punaluu	29.0	7.2	2.8	3.0	1.2

15 - 19 Dec. 1983 Expedition - 12 turtles captured (1 long term and 1 short term recovery)
 8 - 10 Jan. 1984 Expedition - 13 turtles captured (2 long term and 2 short term recoveries)

G. Balazs
 1-12-84

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SUMMARY OF GREEN TURTLE TAGGINGS
ISLAND OF HAWAII

by
George H. Balazs
Hawaii Institute of Marine Biology

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

TAG RETENTION OF SIZE 681 INCONEL TAGS ON IMMATURE
GREEN TURTLES RECAPTURED AT PUNALUU, HAWAII

G. H. Balazs
July 1984

	No. of tags applied	Elapsed time in the wild (years)	Growth in straight carapace length (cm)	No. of tags shed
1.	2	5.3	41.3 → 60.3	0
2.	2	6.0	57.2 → 78.0	1
3.	4	2.4	68.1 → 75.3	0
4.	2	5.5	39.4 → 61.5	0
5.	2	6.1	39.0 → 65.5	0
6.	2	5.6	42.9 → 69.5	0

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

by
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National Marine Fisheries Service, NOAA
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Honolulu, Hawaii 96822-2396

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

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

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

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

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

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

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

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

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

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

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

SUMGRT.GHB

Tag series

MONEL:
INCONEL:

Summary of green turtles tagged and resighted at Kaalualu Bay, Hawaii.

By George H. Balazs
 Southwest Fisheries Science Center Honolulu Laboratory
 2570 Dole Street, Honolulu, HI 96822-2396

Study dates	Method of capture	Total No. captured	No. newly tagged	No. tag resightings	Total No. tagged to date	Original tag dates for turtles resighted
5/5-5/6/77	Net	9	9	2	9	Turtle tagged 5/5 was recaptured 5/6; turtle tagged on 5/6 reported taken by fisherman on 5/14/77
5/8/77	Net	4	4 ^a	0	13	
1/21/78	Net	4	3	1	16	5/6/77
9/2/78	Net	2	1	1	17	1/21/78
9/5/78	Net	4	3	1	20	5/6/77 and 1/21/78
7/23/81	Net	2	1 ^b	1	21	1/21/78 and 9/2/78

^aIncludes adult female 5016-19 resighted on 6/28/79 nesting at East Island, French Frigate Shoals.

^bAdult female 5485-88 found dead during July 1983 washed ashore at South Point with bullet holes in the head and neck.

NINE BLOOD SAMPLES FROM GREEN TURTLES TAGGED AT PUNALUU, HAWAII

DURING FEBRUARY 1984 - G. H. Balazs

Tag No.	Date of Capture	Straight Carapace Length, cm	Weight, kg
7624	2-17-84	41.3	12.3
7622	2-17	47.7	15.5
7620	2-17	45.2	14.1
7613	2-18	73.5	60.4
7617	2-18	62.0	34.1
7609	2-18	68.0	47.3
7638	2-18	61.5	33.2
7641	2-18	63.5	37.3
7644	2-19	65.5	42.7