

PUNALOU 26, 27, 28

KAMEHAME

SATELLITE TRANSMITTERS

22 AUG 95 22126

24 AUG 95 22134

~~KAMEHAME~~
Book I

BALAZS

808-595
6409

PUNALOU 26, 27 & 28
(10/94), (4/95) (7/95)

KAMEHAME JULY & AUGUST 95

22126 6/6
22134 6/6

G.H. BALAZS

1994-1995

2 of 2

Punalu'u #28

SEA TURTLE TAGGING FORM

①

CAPTURE DATE, LOCATION AND METHOD:

7-5-95, Punalu'u, hand snorkel

PERSON RECORDING DATA: Malia Laber

OLD TAGS: []
TUMOR SCORE: [0]

NEW TAGS: RFL [B436]
LFL [B437]

OTHER NEW TAGS: RH [B438]
LH [B439]

STRAIGHT CARAPACE-LENGTH: [50.8] WIDTH: [39.2]

NOTCH LENGTH: [50.6] DB: [] L.O. [] VB: []

CURVED CARAPACE LENGTH: [54.0] WIDTH: [47.5]

HEAD WIDTH: [8.3] SEX: MALE, FEMALE OR UNDETERMINED [U]

PPS: YES OR NO OR NE [NO]

TAIL LENGTH: T [11.5] c [8]

RIGHT FRONT FLIPPER WIDTH: [8.6] SAMPLES COLLECTED []

PLASTRON LENGTH: [40.9]

WEIGHT: []

DESCRIPTIVE REMARKS: []

SEA TURTLE TAGGING FORM

(2)

CAPTURE DATE, LOCATION AND METHOD:

7-5-95	Pungluy	hand snorkel
PERSON RECORDING DATA: Julie Kaneshiro		

OLD TAGS:	RFL 7715	NEW TAGS: RFL	
	LFF 7716	LFL	
TUMOR SCORE		OTHER NEW TAGS:	RH B440
<input type="text" value="0"/>			LH B441

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH: DB: VB:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

tip of RFF missing & healed

SEA TURTLE TAGGING FORM

3

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punaluu, hand snorkel

PERSON RECORDING DATA: Julie Kaneshiro

OLD TAGS:

RFL F13

NEW TAGS: RFL

LFL F12

LFL

TUMOR
SCORE

RH J452

OTHER
NEW
TAGS:

0

~~RH~~ LH F14

STRAIGHT CARAPACE-LENGTH:

68.5

WIDTH:

50.1

NOTCH LENGTH:

68.0

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

73

WIDTH:

63.0

HEAD WIDTH:

10.3

SEX: MALE, FEMALE OR
UNDETERMINED

PPS: YES OR NO OR NE

YES

TAIL LENGTH:

T

15.5

C

11

RIGHT FRONT FLIPPER WIDTH:

12.2

SAMPLES COLLECTED:

PLASTRON LENGTH:

52.5

WEIGHT:

DESCRIPTIVE REMARKS:

PC in mouth

SEA TURTLE TAGGING FORM

4

CAPTURE DATE, LOCATION AND METHOD:

7-5-95, Punalu'u hand snorkel

PERSON RECORDING DATA: ~~Malia~~ ~~Laber~~ MELODY RUSSELL

OLD TAGS:	LFL R78	NEW TAGS:	RFL	
	RFL		LFL	
TUMOR SCORE	LH	OTHER NEW TAGS:		
<input type="text" value="0"/>	RH			

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH: DB: L.O. VB:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

90 73

5

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

1-5-95	Punaluu	hand snorkel
PERSON RECORDING DATA: Malia Laber		

OLD TAGS:	RFL R88	NEW TAGS: RFL	
	LFL R87	LFL	
TUMOR SCORE	RH R89	OTHER NEW TAGS:	
<input type="radio"/>	LH K492		

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH: DB: VB:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T c

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

SEA TURTLE TAGGING FORM

74 91

(6)

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punaluu hand snorkel

PERSON RECORDING DATA: Malia Laber

OLD TAGS: LFL R72 NEW TAGS: RFL
 RFL R73 LFL
 TUMOR SCORE: RH J453 OTHER NEW TAGS:
 0 LH R74

STRAIGHT CARAPACE-LENGTH: 66.8 WIDTH: 50.0

NOTCH LENGTH: 66.6 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 72 WIDTH: 65

HEAD WIDTH: 9.9 SEX: MALE, FEMALE OR UNDETERMINED J

PPS: YES OR NO OR NE YES

TAIL LENGTH: T 16 c 11.5

RIGHT FRONT FLIPPER WIDTH: 11.8 SAMPLES COLLECTED:

PLASTRON LENGTH: 52.0

WEIGHT:

DESCRIPTIVE REMARKS:

⑦

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punaluu hand snorkel

PERSON RECORDING DATA: Malia Laber

OLD TAGS:

RFL 7726

NEW TAGS: RFL

TUMOR
SCORE

LFL (7725)

} ringed
this date

LFL

R3-4 7727

OTHER
NEW
TAGS:

RH B442

0

~~RH B442~~

LH B443

~~LH B443~~

75.4

STRAIGHT CARAPACE-LENGTH:

~~80~~

WIDTH:

58.4

NOTCH LENGTH:

75.4

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

80

WIDTH:

72

HEAD WIDTH:

11.7

SEX: MALE, FEMALE OR
UNDETERMINED

0

PPS: YES OR NO OR NE

YES

TAIL LENGTH:

T

20

C

13.5

RIGHT FRONT FLIPPER WIDTH:

13.4

SAMPLES COLLECTED:

PLASTRON LENGTH:

60.2

WEIGHT:

DESCRIPTIVE REMARKS:

SEA TURTLE TAGGING FORM

8

CAPTURE DATE, LOCATION AND METHOD:

7-5-95	Punaluu	hand snorkel
PERSON RECORDING DATA: Malia Laber		

OLD TAGS:	RFL R61	NEW TAGS: RFL	
	LFL R60	LFL	
TUMOR SCORE	LH R62	OTHER NEW TAGS:	RH B444
0			

STRAIGHT CARAPACE-LENGTH: 52.2 WIDTH: 36.7

NOTCH LENGTH: 51.8 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 56.5 WIDTH: 46.0

HEAD WIDTH: 8.3 SEX: MALE, FEMALE OR UNDETERMINED U

PPS: YES OR NO OR NE YES

TAIL LENGTH: T 11.5 C 8

RIGHT FRONT FLIPPER WIDTH: 9.7 SAMPLES COLLECTED:

PLASTRON LENGTH: 41.0

WEIGHT:

DESCRIPTIVE REMARKS:

5-7 marginal left partly missing & healed LFF Distal joint of humerus does not articulate

abnormal due to old marginal injuries

⑨

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punalu'u Hand Snorkel

PERSON RECORDING DATA: Michelle Hayes

OLD TAGS:

LFL N-549

NEW TAGS: RFL

TUMOR
SCORE~~RFL~~ R34 N-547

LFL

0

RFL N-548

OTHER
NEW
TAGS:

L-3-S 2260

(2 unreadable)

RH: K-537 LH: K-538

STRAIGHT CARAPACE-LENGTH:

73.9

WIDTH:

56.0

NOTCH LENGTH:

73.9

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

80.0

WIDTH:

73.5

HEAD WIDTH:

10.4

SEX: MALE, FEMALE OR
UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T

16.0

C

11.0

RIGHT FRONT FLIPPER WIDTH:

12.7

SAMPLES COLLECTED:

PLASTRON LENGTH:

57.6

WEIGHT:

DESCRIPTIVE REMARKS:

Slimy algae on
carapace

Punalu'u Bay =

79°F center of Bay (1m) 80
77.5°F near shore/surface 95

SEA TURTLE TAGGING FORM

10

CAPTURE DATE, LOCATION AND METHOD:

7-5-95	Punalu'u	Hand Snorkel
PERSON RECORDING DATA: Michelle Hayes		

OLD TAGS:	RFL K-282	NEW TAGS: RFL	
	LFL K-281	LFL	
TUMOR SCORE	LH K-283	OTHER NEW TAGS:	
<input type="radio"/>			

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH: DB: L.O. VB:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS: slimy algae on carapace

RH-hand & amputated Extra oval scute in postoral midline seam.

SEA TURTLE TAGGING FORM

11

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punaluu Hand Snorkel

PERSON RECORDING DATA: Michelle Hayes

OLD TAGS:

RFL K-273

NEW TAGS: RFL

TUMOR SCORE

LFL K-273

LFL

0

RH K-274

OTHER NEW TAGS:

LH B-19

STRAIGHT CARAPACE-LENGTH:

55.6

WIDTH:

42.4

NOTCH LENGTH:

55.6

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

60.0

WIDTH:

54.5

HEAD WIDTH:

9.0

SEX: MALE, FEMALE OR UNDETERMINED

J

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T

12.0

C

8.5

RIGHT FRONT FLIPPER WIDTH:

9.7

SAMPLES COLLECTED:

PLASTRON LENGTH:

45.2

WEIGHT:

DESCRIPTIVE REMARKS:

Healing tear on rt. hind flipper

April 26, 1995

Need copy in
Lundum book

81

To: Mr. George Balazs

From: Michelle Hayes

Subject: Methodology for an observational study of the green turtle in Hilo

As my senior thesis project I am proposing to do an observational study of the green turtle, *Chelonia mydas* in the Hilo area. The projected study site is the region between Lelewi Point and Richardson's Ocean Beach Park. The exact location for the study will be determined by reconnaissance dives in order to find a location with a high concentration of turtles.

After a site has been determined turtles will be systematically observed along 100m transects laid parallel to shore at three depths - the surface, 25 and 40 foot isobaths. Shoreline observations will be done by snorkeling and scuba equipment will be utilized for the deeper depths. For each isobath a minimum of ten replicates will be done. During each transect search several things will be noted and recorded 1) approximate size of the turtle 2) tag presence and location 3) tumor location and size if present 4) identifying marks 5) location and activity of each turtle at the time of sighting. If observed feeding, the algae will be identified on site or sampled for later identification. To assist in identification of individuals, photographs will be taken to document identifying markings (this will be especially important if marking of turtle carapaces is not possible before the study is started). In addition to the observing of turtles data will also be taken on the types and abundance of coral and algae that are found along the transects within the study site. Abundance of each will be determined

by using quadrats to determine percent cover.

If you feel that any part of the experimental design needs modification I would welcome your comments. For example, do you feel that it would be better to do a 5 minute swimming transect vs. 100m strip transects? Is the resulting decrease in accuracy for determining density acceptable? I don't want to be doing anything that is not going to be beneficial to you in some way. Thank you for your letter and the articles. I found them very interesting and I will be sure to let you know if I locate any cleaning stations in the study area. If found we could then discuss a means for documentation.

Thank you again for your time.

Michelle Hayes

(Please print clearly in blank)

Date: 28 Apr 95 Time: 0843

Fax Number: (808) 943-1290

To: George Balazs (NMFS)

City, State and/or Country

From: Leon Hallacher

Total Number of Pages (including this page): 3

MESSAGE:

George,

Here's Michelle's thumb-nail sketch of her experimental design. Please make any comments/suggestions you can. Thanks,

~~~~~

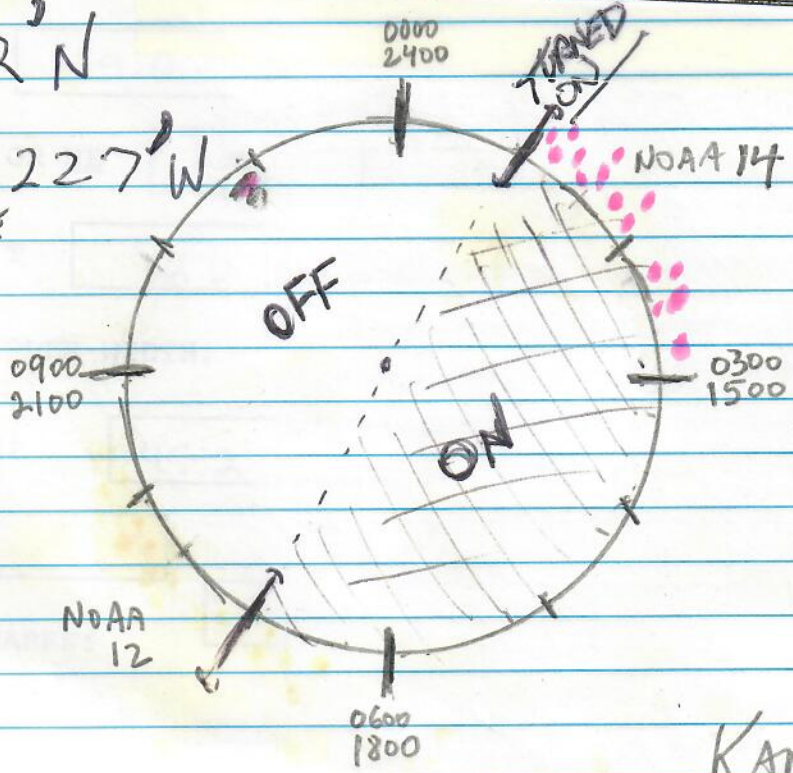
If you do not receive all pages, please call back at (808) 933-3383

8/20/95

19° 8.832' N

155° 28.227' W

AS PER MARE RICE  
GPS



KAMEHAME

## SEA TURTLE TAGGING FORM

⑫

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punaluu Hand Snorkel

PERSON RECORDING DATA: Michelle Hayes

OLD TAGS:

RFL 7623

NEW TAGS: RFL

TUMOR  
SCORE

LFL 7622

LFL

0

RH N-832

OTHER  
NEW  
TAGS:

LH B-25

STRAIGHT CARAPACE-LENGTH:

70.2

WIDTH:

53.7

NOTCH LENGTH:

70.2

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

74.5

WIDTH:

70.0

HEAD WIDTH:

10.6

SEX: MALE, FEMALE OR  
UNDETERMINED

U

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T

17.5

C

12.5

RIGHT FRONT FLIPPER WIDTH:

11.9

SAMPLES COLLECTED:

PLASTRON LENGTH:

55.4

WEIGHT:

DESCRIPTIVE REMARKS:

slimy algae on carapace.

LFF base white 1cm  
~~Suspicious~~ Bur

## SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

7-5-95 Punalu'u Hand Snorkel

PERSON RECORDING DATA: Michelle Hayes

OLD TAGS:

RFL F-6

~~100~~ L3-4 F8

RH K-531

LH F-7

NEW TAGS: RFL

LFL

TUMOR  
SCORE

0

OTHER  
NEW  
TAGS:

STRAIGHT CARAPACE-LENGTH:

55.9

WIDTH:

42.9

NOTCH LENGTH:

55.5

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

60.0

WIDTH:

54.5

HEAD WIDTH:

8.7

SEX: MALE, FEMALE OR  
UNDETERMINED

U

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T

12.0

C

8.0

RIGHT FRONT FLIPPER WIDTH:

11.2

SAMPLES COLLECTED:

PLASTRON LENGTH:

43.8

WEIGHT:

DESCRIPTIVE REMARKS:

LFL - healed v-notch



From P. 26

22134 Date : 21.03.96 03:48:02 LC : B IQ : 00  
Lat1 : 19.809N Lon1 : 155.183W  
223 1550 1913 11  
00 00

22134 Date : 26.03.96 03:38:24 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
222 2687 2349 09  
00 00

22134 Date : 27.03.96 04:53:38 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
221 3384 2652 08  
00 00

22134 Date : 28.03.96 13:52:24 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
221 3031 1737 12  
00 07

22134 Date : 03.04.96 03:58:51 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
220 1947 2109 42  
02 42

22134 Date : 04.04.96 00:00:48 LC : B IQ : 00  
Lat1 : 20.007N Lon1 : 154.937W  
220 2170 2112 10  
00 00

22134 Date : 05.04.96 23:38:47 LC : B IQ : 00  
Lat1 : 19.790N Lon1 : 155.145W  
222 1885 1913 11  
00 00

22134 Date : 07.04.96 04:15:18 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
222 2033 2104 10  
00 00

22134 Date : 11.04.96 16:57:21 LC : 1 IQ : 50  
Lat1 : 19.871N Lon1 : 155.124W  
223 2123 1711 12  
00 00

22134 Date : 14.04.96 23:43:21 LC : A IQ : 00  
Lat1 : 19.847N Lon1 : 155.169W  
224 1696 1615 13  
00 00

22134 Date : 18.04.96 13:27:35 LC : B IQ : 00  
Lat1 : 19.845N Lon1 : 155.062W  
223 2557 1574 13  
00 00

22134 Date : 20.04.96 11:27:30 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
221 2558 1722 12  
00 00

22134 Date : 20.04.96 13:03:33 LC : B IQ : 00  
Lat1 : 19.816N Lon1 : 155.075W  
221 2801 1722 12  
00 08

22134 Date : 20.04.96 16:54:17 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
220 1091 1722 12  
00 00

O = plotted  
an  
new data  
map  
O = plotted  
an  
data  
(date etc)  
map.

TO P.92

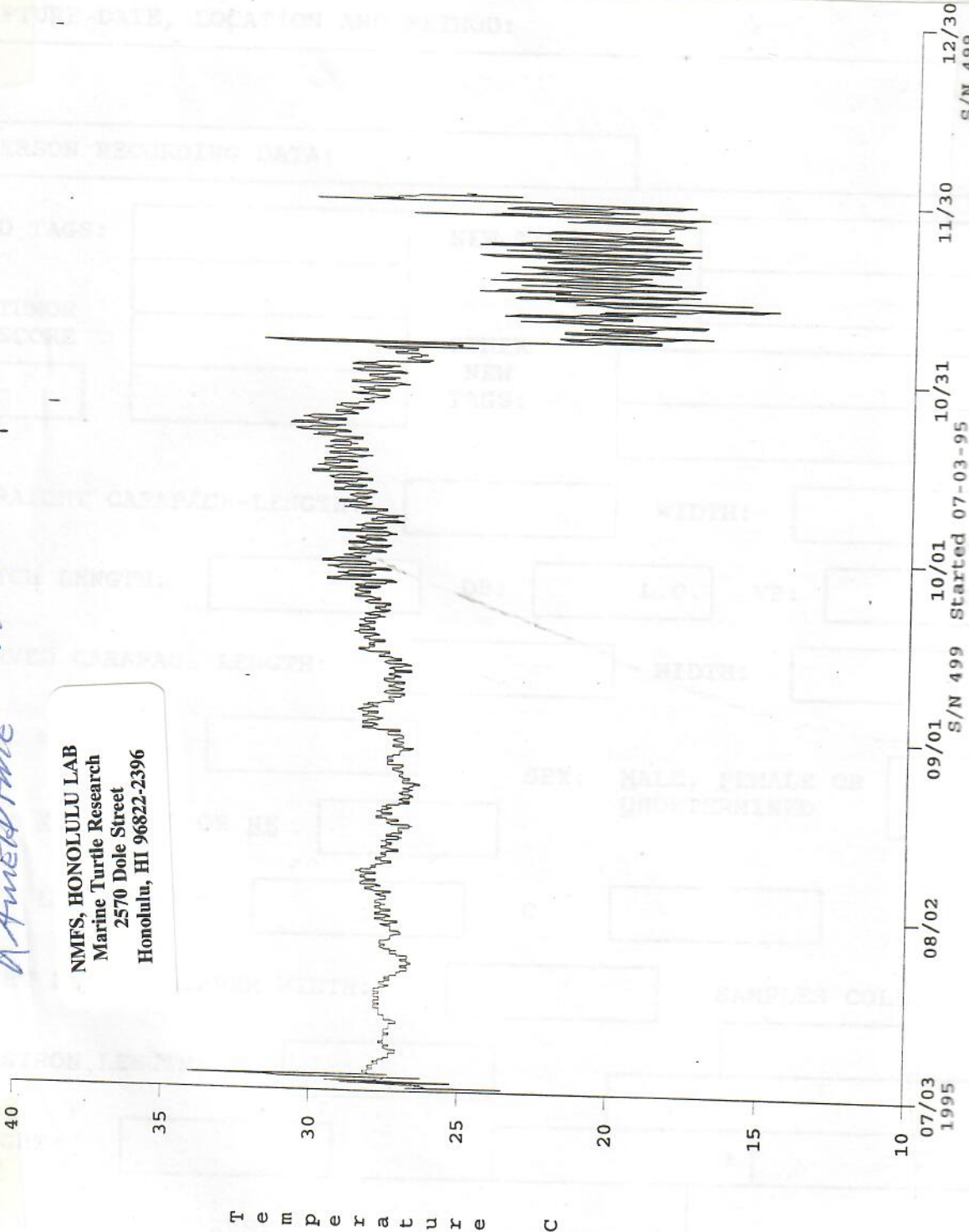
SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

*KAMEHAME* 1995

NMFS, HONOLULU LAB  
Marine Turtle Research  
2570 Dole Street  
Honolulu, HI 96822-2396



12/30  
S/N 499

11/30

10/31

Started 07-03-95

S/N 499

09/01

08/02

07/03  
1995

*~ Kamehame*

*~ 42° ideal*

BALAZ 19.16 NORTH / 155.5 WEST

date      object      beacon      rise      tca      set      el  
*GMT -10 hours = HST*

|         |         |                           |          |          |       |    |
|---------|---------|---------------------------|----------|----------|-------|----|
| 20Aug95 | NOAA-14 | 1707.0000                 | 00:55:31 | 01:02:02 | 01:08 | 16 |
| 20Aug95 | NoAA-11 | 1698.0000                 | 02:28:46 | 02:33:54 | 02:39 | 8  |
| 20Aug95 | NoAA-11 | 1698.0000                 | 04:06:04 | 04:13:51 | 04:21 | 75 |
| 20Aug95 | NOAA-12 | 1707.0000 <sup>1938</sup> | 04:38:08 | 04:45:29 | 04:52 | 40 |
| 20Aug95 | NoAA-11 | 1698.0000                 | 05:51:26 | 05:54:44 | 05:58 | 3  |
| 20Aug95 | NOAA-12 | 1707.0000                 | 06:19:13 | 06:25:28 | 06:31 | 15 |
| 20Aug95 | NOAA-9  | 1707.0000                 | 06:58:49 | 07:06:16 | 07:13 | 36 |
| 20Aug95 | NOAA-9  | 1707.0000                 | 08:40:04 | 08:46:46 | 08:53 | 18 |
| 20Aug95 | NOAA-14 | 1707.0000 <sup>0147</sup> | 11:47:45 | 11:55:30 | 12:03 | 49 |
| 20Aug95 | NOAA-14 | 1707.0000                 | 13:29:33 | 13:35:46 | 13:41 | 14 |
| 20Aug95 | NoAA-11 | 1698.0000                 | 15:00:51 | 15:06:34 | 15:12 | 9  |
| 20Aug95 | NoAA-11 | 1698.0000                 | 16:39:25 | 16:47:16 | 16:55 | 63 |
| 20Aug95 | NOAA-12 | 1707.0000 <sup>0726</sup> | 17:06:22 | 17:13:50 | 17:21 | 44 |
| 20Aug95 | NoAA-11 | 1698.0000                 | 18:23:48 | 18:26:55 | 18:30 | 2  |
| 20Aug95 | NOAA-12 | 1707.0000                 | 18:47:19 | 18:53:25 | 18:59 | 14 |
| 20Aug95 | NOAA-9  | 1707.0000                 | 19:31:33 | 19:39:10 | 19:46 | 43 |
| 20Aug95 | NOAA-9  | 1707.0000                 | 21:12:55 | 21:19:20 | 21:25 | 15 |
| 20Aug95 | NOAA-14 | 1707.0000 <sup>1302</sup> | 23:03:23 | 23:10:36 | 23:17 | 30 |
| 21Aug95 | NOAA-14 | 1707.0000                 | 00:44:12 | 00:51:10 | 00:58 | 21 |
| 21Aug95 | NoAA-11 | 1698.0000                 | 02:17:38 | 02:21:43 | 02:25 | 5  |
| 21Aug95 | NoAA-11 | 1698.0000                 | 03:53:45 | 04:01:31 | 04:09 | 81 |
| 21Aug95 | NOAA-12 | 1707.0000                 | 04:16:58 | 04:23:53 | 04:30 | 23 |
| 21Aug95 | NoAA-11 | 1698.0000                 | 05:37:34 | 05:42:18 | 05:47 | 6  |
| 21Aug95 | NOAA-12 | 1707.0000 <sup>1956</sup> | 05:56:36 | 06:03:39 | 06:10 | 26 |
| 21Aug95 | NOAA-9  | 1707.0000                 | 06:46:12 | 06:53:21 | 07:00 | 26 |
| 21Aug95 | NOAA-9  | 1707.0000                 | 08:26:35 | 08:33:43 | 08:40 | 25 |
| 21Aug95 | NOAA-14 | 1707.0000 <sup>0137</sup> | 11:37:01 | 11:44:40 | 11:52 | 37 |
| 21Aug95 | NOAA-14 | 1707.0000                 | 13:18:19 | 13:25:03 | 13:31 | 18 |
| 21Aug95 | NoAA-11 | 1698.0000                 | 14:49:27 | 14:54:09 | 14:58 | 6  |
| 21Aug95 | NoAA-11 | 1698.0000                 | 16:27:03 | 16:34:57 | 16:42 | 85 |
| 21Aug95 | NOAA-12 | 1707.0000 <sup>0644</sup> | 16:44:59 | 16:52:04 | 16:59 | 25 |
| 21Aug95 | NoAA-11 | 1698.0000                 | 18:10:15 | 18:14:46 | 18:19 | 5  |
| 21Aug95 | NOAA-12 | 1707.0000                 | 18:24:55 | 18:31:51 | 18:38 | 24 |
| 21Aug95 | NOAA-9  | 1707.0000                 | 19:18:47 | 19:26:09 | 19:33 | 31 |
| 21Aug95 | NOAA-9  | 1707.0000                 | 20:59:31 | 21:06:26 | 21:13 | 21 |
| 21Aug95 | NOAA-14 | 1707.0000                 | 22:52:48 | 22:59:51 | 23:06 | 23 |

21Aug95 passes = 18

|         |         |                           |          |          |       |    |
|---------|---------|---------------------------|----------|----------|-------|----|
| 22Aug95 | NOAA-14 | 1707.0000 <sup>1433</sup> | 00:33:02 | 00:40:19 | 00:47 | 28 |
| 22Aug95 | NoAA-11 | 1698.0000                 | 02:07:08 | 02:09:34 | 02:12 | 2  |
| 22Aug95 | NoAA-11 | 1698.0000                 | 03:41:31 | 03:49:13 | 03:56 | 59 |

|         |         |                           |          |          |       |    |
|---------|---------|---------------------------|----------|----------|-------|----|
| 22Aug95 | NOAA-12 | 1707.0000                 | 03:56:15 | 04:02:19 | 04:08 | 13 |
| 22Aug95 | NOAA-11 | 1698.0000                 | 05:24:13 | 05:29:53 | 05:35 | 10 |
| 22Aug95 | NOAA-12 | 1707.0000 <sup>1934</sup> | 05:34:24 | 05:41:53 | 05:49 | 46 |
| 22Aug95 | NOAA-9  | 1707.0000                 | 06:33:43 | 06:40:26 | 06:47 | 19 |
| 22Aug95 | NOAA-9  | 1707.0000                 | 08:13:14 | 08:20:41 | 08:28 | 34 |
| 22Aug95 | NOAA-14 | 1707.0000 <sup>0128</sup> | 11:26:25 | 11:33:50 | 11:41 | 29 |
| 22Aug95 | NOAA-14 | 1707.0000                 | 13:07:13 | 13:14:19 | 13:21 | 23 |
| 22Aug95 | NOAA-11 | 1698.0000                 | 14:38:35 | 14:41:44 | 14:44 | 2  |
| 22Aug95 | NOAA-11 | 1698.0000                 | 16:14:44 | 16:22:38 | 16:30 | 71 |
| 22Aug95 | NOAA-12 | 1707.0000                 | 16:23:58 | 16:30:15 | 16:36 | 14 |
| 22Aug95 | NOAA-11 | 1698.0000                 | 17:57:07 | 18:02:35 | 18:08 | 9  |
| 22Aug95 | NOAA-12 | 1707.0000 <sup>802</sup>  | 18:02:49 | 18:10:14 | 18:17 | 42 |
| 22Aug95 | NOAA-9  | 1707.0000                 | 19:06:06 | 19:13:06 | 19:20 | 22 |
| 22Aug95 | NOAA-9  | 1707.0000                 | 20:46:14 | 20:53:31 | 21:00 | 29 |
| 22Aug95 | NOAA-14 | 1707.0000                 | 22:42:31 | 22:49:07 | 22:55 | 18 |
| 23Aug95 | NOAA-14 | 1707.0000 <sup>1421</sup> | 00:21:58 | 00:29:29 | 00:37 | 37 |
| 23Aug95 | NOAA-11 | 1698.0000                 | 03:29:22 | 03:36:55 | 03:44 | 43 |
| 23Aug95 | NOAA-12 | 1707.0000                 | 03:36:07 | 03:40:49 | 03:45 | 6  |
| 23Aug95 | NOAA-11 | 1698.0000                 | 05:11:08 | 05:17:29 | 05:23 | 15 |
| 23Aug95 | NOAA-12 | 1707.0000                 | 05:12:32 | 05:20:09 | 05:27 | 82 |
| 23Aug95 | NOAA-9  | 1707.0000                 | 06:21:23 | 06:27:33 | 06:33 | 14 |
| 23Aug95 | NOAA-12 | 1707.0000                 | 06:56:49 | 07:00:25 | 07:04 | 3  |
| 23Aug95 | NOAA-9  | 1707.0000                 | 08:00:01 | 08:07:40 | 08:15 | 48 |
| 23Aug95 | NOAA-14 | 1707.0000                 | 11:15:53 | 11:22:59 | 11:30 | 27 |
| 23Aug95 | NOAA-14 | 1707.0000 <sup>0253</sup> | 12:56:11 | 13:03:34 | 13:10 | 30 |
| 23Aug95 | NOAA-11 | 1698.0000                 | 16:02:30 | 16:10:17 | 16:18 | 51 |
| 23Aug95 | NOAA-12 | 1707.0000                 | 16:03:30 | 16:08:24 | 16:13 | 7  |
| 23Aug95 | NOAA-12 | 1707.0000                 | 17:40:56 | 17:48:34 | 17:56 | 74 |
| 23Aug95 | NOAA-11 | 1698.0000                 | 17:44:13 | 17:50:23 | 17:56 | 13 |
| 23Aug95 | NOAA-9  | 1707.0000                 | 18:53:33 | 19:00:03 | 19:06 | 26 |
| 23Aug95 | NOAA-12 | 1707.0000                 | 19:24:08 | 19:27:45 | 19:31 | 1  |
| 23Aug95 | NOAA-9  | 1707.0000                 | 20:33:05 | 20:40:35 | 20:48 | 40 |
| 23Aug95 | NOAA-14 | 1707.0000                 | 22:32:16 | 22:38:24 | 22:44 | 13 |
| 24Aug95 | NOAA-12 | 1707.0000                 | 06:33:01 | 06:38:33 | 06:44 | 10 |
| 24Aug95 | NOAA-9  | 1707.0000                 | 07:46:54 | 07:54:39 | 08:02 | 68 |
| 24Aug95 | NOAA-9  | 1707.0000                 | 09:32:54 | 09:35:32 | 09:38 | 2  |
| 24Aug95 | NOAA-14 | 1707.0000                 | 11:05:26 | 11:12:08 | 11:18 | 17 |
| 24Aug95 | NOAA-14 | 1707.0000 <sup>0245</sup> | 12:45:12 | 12:52:49 | 13:00 | 40 |
| 24Aug95 | NOAA-12 | 1707.0000                 | 15:44:41 | 15:46:31 | 15:48 | 1  |
| 24Aug95 | NOAA-11 | 1698.0000                 | 15:50:20 | 15:57:56 | 16:05 | 37 |
| 24Aug95 | NOAA-12 | 1707.0000                 | 17:19:15 | 17:26:52 | 17:34 | 64 |
| 24Aug95 | NOAA-11 | 1698.0000                 | 17:31:28 | 17:38:10 | 17:44 | 18 |
| 24Aug95 | NOAA-9  | 1707.0000                 | 18:41:10 | 18:46:59 | 18:52 | 11 |
| 24Aug95 | NOAA-12 | 1707.0000                 | 19:00:53 | 19:06:18 | 19:11 | 9  |
| 24Aug95 | NOAA-9  | 1707.0000                 | 20:19:57 | 20:27:38 | 20:35 | 56 |
| 24Aug95 | NOAA-9  | 1707.0000                 | 22:04:58 | 22:07:12 | 22:09 | 1  |
| 24Aug95 | NOAA-14 | 1707.0000                 | 22:22:10 | 22:27:41 | 22:33 | 10 |

|         |         |           |          |          |       |    |
|---------|---------|-----------|----------|----------|-------|----|
| 25Aug95 | NOAA-14 | 1707.0000 | 00:00:04 | 00:07:50 | 00:15 | 65 |
| 25Aug95 | NOAA-14 | 1707.0000 | 01:46:38 | 01:48:54 | 01:51 | 1  |
| 25Aug95 | NoAA-11 | 1698.0000 | 03:05:29 | 03:12:22 | 03:19 | 23 |
| 25Aug95 | NOAA-12 | 1707.0000 | 04:29:38 | 04:36:49 | 04:43 | 32 |
| 25Aug95 | NoAA-11 | 1698.0000 | 04:45:30 | 04:52:43 | 04:59 | 28 |
| 25Aug95 | NOAA-9  | 1707.0000 | 05:57:21 | 06:01:51 | 06:06 | 5  |
| 25Aug95 | NOAA-12 | 1707.0000 | 06:10:08 | 06:16:43 | 06:23 | 19 |
| 25Aug95 | NOAA-9  | 1707.0000 | 07:33:50 | 07:41:40 | 07:49 | 87 |
| 25Aug95 | NOAA-9  | 1707.0000 | 09:17:59 | 09:22:26 | 09:26 | 5  |
| 25Aug95 | NOAA-14 | 1707.0000 | 10:55:07 | 11:01:16 | 11:07 | 12 |
| 25Aug95 | NOAA-14 | 1707.0000 | 12:34:16 | 12:42:03 | 12:49 | 52 |
| 25Aug95 | NOAA-14 | 1707.0000 | 14:20:06 | 14:21:44 | 14:23 | 1  |
| 25Aug95 | NoAA-11 | 1698.0000 | 15:38:15 | 15:45:34 | 15:52 | 27 |
| 25Aug95 | NOAA-12 | 1707.0000 | 16:57:46 | 17:05:07 | 17:12 | 36 |
| 25Aug95 | NoAA-11 | 1698.0000 | 17:18:48 | 17:25:55 | 17:33 | 25 |
| 25Aug95 | NOAA-9  | 1707.0000 | 18:28:58 | 18:33:54 | 18:38 | 6  |
| 25Aug95 | NOAA-12 | 1707.0000 | 18:38:19 | 18:44:46 | 18:51 | 18 |
| 25Aug95 | NOAA-9  | 1707.0000 | 20:06:50 | 20:14:39 | 20:22 | 79 |
| 25Aug95 | NOAA-9  | 1707.0000 | 21:50:20 | 21:54:24 | 21:58 | 4  |
| 25Aug95 | NOAA-14 | 1707.0000 | 22:12:15 | 22:17:00 | 22:21 | 7  |
| 25Aug95 | NOAA-14 | 1707.0000 | 23:49:13 | 23:57:02 | 00:04 | 85 |
| 26Aug95 | NOAA-14 | 1707.0000 | 01:34:00 | 01:38:00 | 01:42 | 4  |
| 26Aug95 | NoAA-11 | 1698.0000 | 02:53:41 | 03:00:07 | 03:06 | 17 |
| 26Aug95 | NOAA-12 | 1707.0000 | 04:08:36 | 04:15:13 | 04:21 | 19 |
| 26Aug95 | NoAA-11 | 1698.0000 | 04:32:52 | 04:40:21 | 04:47 | 38 |
| 26Aug95 | NOAA-9  | 1707.0000 | 05:46:04 | 05:49:02 | 05:52 | 2  |
| 26Aug95 | NOAA-12 | 1707.0000 | 05:47:40 | 05:54:55 | 06:02 | 32 |
| 26Aug95 | NOAA-9  | 1707.0000 | 07:20:55 | 07:28:41 | 07:36 | 63 |
| 26Aug95 | NOAA-9  | 1707.0000 | 09:03:49 | 09:09:21 | 09:14 | 9  |
| 26Aug95 | NOAA-14 | 1707.0000 | 10:44:56 | 10:50:24 | 10:55 | 8  |
| 26Aug95 | NOAA-14 | 1707.0000 | 12:23:23 | 12:31:16 | 12:39 | 68 |
| 26Aug95 | NOAA-14 | 1707.0000 | 14:07:32 | 14:11:06 | 14:14 | 3  |
| 26Aug95 | NoAA-11 | 1698.0000 | 15:26:15 | 15:33:11 | 15:40 | 20 |
| 26Aug95 | NOAA-12 | 1707.0000 | 16:36:30 | 16:43:19 | 16:50 | 21 |
| 26Aug95 | NoAA-11 | 1698.0000 | 17:06:14 | 17:13:40 | 17:21 | 33 |
| 26Aug95 | NOAA-12 | 1707.0000 | 18:16:01 | 18:23:11 | 18:30 | 30 |
| 26Aug95 | NOAA-9  | 1707.0000 | 18:17:21 | 18:20:49 | 18:24 | 3  |
| 26Aug95 | NOAA-9  | 1707.0000 | 19:53:50 | 20:01:40 | 20:09 | 76 |
| 26Aug95 | NOAA-9  | 1707.0000 | 21:36:24 | 21:41:35 | 21:46 | 8  |
| 26Aug95 | NOAA-14 | 1707.0000 | 22:02:37 | 22:06:20 | 22:10 | 4  |
| 26Aug95 | NOAA-14 | 1707.0000 | 23:38:27 | 23:46:14 | 23:54 | 74 |



|         |         |           |          |          |       |
|---------|---------|-----------|----------|----------|-------|
| 27Aug95 | NOAA-14 | 1707.0000 | 01:22:03 | 01:27:07 | 01:32 |
| 27Aug95 | NoAA-11 | 1698.0000 | 02:41:58 | 02:47:54 | 02:53 |
| 27Aug95 | NOAA-12 | 1707.0000 | 03:48:05 | 03:53:41 | 03:59 |
| 27Aug95 | NoAA-11 | 1698.0000 | 04:20:18 | 04:28:00 | 04:35 |
| 27Aug95 | NOAA-12 | 1707.0000 | 05:25:36 | 05:33:09 | 05:40 |
| 27Aug95 | NOAA-9  | 1707.0000 | 07:08:07 | 07:15:43 | 07:23 |
| 27Aug95 | NOAA-9  | 1707.0000 | 08:50:00 | 08:56:17 | 09:02 |
| 27Aug95 | NOAA-14 | 1707.0000 | 10:35:00 | 10:39:31 | 10:44 |
| 27Aug95 | NOAA-14 | 1707.0000 | 12:12:34 | 12:20:28 | 12:28 |
| 27Aug95 | NOAA-14 | 1707.0000 | 13:55:46 | 14:00:26 | 14:05 |
| 27Aug95 | NoAA-11 | 1698.0000 | 15:14:20 | 15:20:48 | 15:27 |
| 27Aug95 | NOAA-12 | 1707.0000 | 16:15:39 | 16:21:30 | 16:27 |
| 27Aug95 | NoAA-11 | 1698.0000 | 16:53:40 | 17:01:23 | 17:09 |
| 27Aug95 | NOAA-12 | 1707.0000 | 17:54:01 | 18:01:33 | 18:09 |
| 27Aug95 | NOAA-12 | 1707.0000 | 19:39:22 | 19:40:33 | 19:41 |
| 27Aug95 | NOAA-9  | 1707.0000 | 19:40:55 | 19:48:40 | 19:56 |
| 27Aug95 | NOAA-9  | 1707.0000 | 21:22:45 | 21:28:43 | 21:34 |
| 27Aug95 | NOAA-14 | 1707.0000 | 21:53:37 | 21:55:42 | 21:57 |
| 27Aug95 | NOAA-14 | 1707.0000 | 23:27:44 | 23:35:26 | 23:43 |
| 28Aug95 | NOAA-12 | 1707.0000 | 05:03:50 | 05:11:26 | 05:19 |
| 28Aug95 | NoAA-11 | 1698.0000 | 05:53:19 | 05:56:32 | 05:59 |
| 28Aug95 | NOAA-12 | 1707.0000 | 06:47:07 | 06:51:38 | 06:56 |
| 28Aug95 | NOAA-9  | 1707.0000 | 06:55:25 | 07:02:46 | 07:10 |
| 28Aug95 | NOAA-9  | 1707.0000 | 08:36:24 | 08:43:13 | 08:50 |
| 28Aug95 | NOAA-14 | 1707.0000 | 10:25:31 | 10:28:37 | 10:31 |
| 28Aug95 | NOAA-14 | 1707.0000 | 12:01:46 | 12:09:40 | 12:17 |
| 28Aug95 | NOAA-14 | 1707.0000 | 13:44:18 | 13:49:46 | 13:55 |
| 28Aug95 | NoAA-11 | 1698.0000 | 15:02:39 | 15:08:24 | 15:14 |
| 28Aug95 | NOAA-12 | 1707.0000 | 15:55:33 | 15:59:38 | 16:03 |
| 28Aug95 | NoAA-11 | 1698.0000 | 16:41:14 | 16:49:06 | 16:56 |
| 28Aug95 | NOAA-12 | 1707.0000 | 17:32:12 | 17:39:52 | 17:47 |
| 28Aug95 | NoAA-11 | 1698.0000 | 18:25:40 | 18:28:44 | 18:31 |
| 28Aug95 | NOAA-12 | 1707.0000 | 19:14:41 | 19:19:09 | 19:23 |
| 28Aug95 | NOAA-9  | 1707.0000 | 19:28:05 | 19:35:39 | 19:43 |
| 28Aug95 | NOAA-9  | 1707.0000 | 21:09:17 | 21:15:51 | 21:22 |
| 28Aug95 | NOAA-14 | 1707.0000 | 23:17:06 | 23:24:40 | 23:32 |
| 29Aug95 | NOAA-14 | 1707.0000 | 00:58:56 | 01:05:22 | 01:11 |
| 29Aug95 | NoAA-11 | 1698.0000 | 02:19:23 | 02:23:31 | 02:27 |
| 29Aug95 | NoAA-11 | 1698.0000 | 03:55:33 | 04:03:20 | 04:11 |
| 29Aug95 | NOAA-12 | 1707.0000 | 04:42:21 | 04:49:45 | 04:57 |
| 29Aug95 | NoAA-11 | 1698.0000 | 05:39:25 | 05:44:06 | 05:48 |
| 29Aug95 | NOAA-12 | 1707.0000 | 06:23:46 | 06:29:46 | 06:35 |
| 29Aug95 | NOAA-9  | 1707.0000 | 06:42:51 | 06:49:51 | 06:56 |
| 29Aug95 | NOAA-9  | 1707.0000 | 08:22:58 | 08:30:11 | 08:37 |
| 29Aug95 | NOAA-14 | 1707.0000 | 11:50:59 | 11:58:51 | 12:06 |
| 29Aug95 | NOAA-14 | 1707.0000 | 13:32:56 | 13:39:04 | 13:45 |

|         |         |           |          |          |       |    |
|---------|---------|-----------|----------|----------|-------|----|
| 29Aug95 | NoAA-11 | 1698.0000 | 14:51:13 | 14:55:59 | 15:00 | 6  |
| 29Aug95 | NoAA-11 | 1698.0000 | 16:28:52 | 16:36:47 | 16:44 | 84 |
| 29Aug95 | NOAA-12 | 1707.0000 | 17:10:36 | 17:18:09 | 17:25 | 51 |
| 29Aug95 | NoAA-11 | 1698.0000 | 18:12:06 | 18:16:35 | 18:21 | 5  |
| 29Aug95 | NOAA-12 | 1707.0000 | 18:51:46 | 18:57:40 | 19:03 | 12 |
| 29Aug95 | NOAA-9  | 1707.0000 | 19:15:20 | 19:22:37 | 19:29 | 28 |
| 29Aug95 | NOAA-9  | 1707.0000 | 20:55:56 | 21:02:57 | 21:09 | 24 |
| 29Aug95 | NOAA-14 | 1707.0000 | 23:06:33 | 23:13:54 | 23:21 | 33 |
| 30Aug95 | NOAA-14 | 1707.0000 | 00:47:38 | 00:54:30 | 01:01 | 20 |
| 30Aug95 | NoAA-11 | 1698.0000 | 02:08:50 | 02:11:22 | 02:13 | 2  |
| 30Aug95 | NoAA-11 | 1698.0000 | 03:43:18 | 03:51:01 | 03:58 | 60 |
| 30Aug95 | NOAA-12 | 1707.0000 | 04:21:07 | 04:28:08 | 04:35 | 26 |
| 30Aug95 | NoAA-11 | 1698.0000 | 05:26:03 | 05:31:41 | 05:37 | 10 |
| 30Aug95 | NOAA-12 | 1707.0000 | 06:01:03 | 06:07:57 | 06:14 | 23 |
| 30Aug95 | NOAA-9  | 1707.0000 | 06:30:24 | 06:36:56 | 06:43 | 17 |
| 30Aug95 | NOAA-9  | 1707.0000 | 08:09:39 | 08:17:09 | 08:24 | 38 |
| 30Aug95 | NOAA-14 | 1707.0000 | 11:40:18 | 11:48:01 | 11:55 | 40 |
| 30Aug95 | NOAA-14 | 1707.0000 | 13:21:44 | 13:28:21 | 13:34 | 17 |
| 30Aug95 | NoAA-11 | 1698.0000 | 14:40:20 | 14:43:34 | 14:46 | 2  |
| 30Aug95 | NoAA-11 | 1698.0000 | 16:16:33 | 16:24:27 | 16:32 | 72 |
| 30Aug95 | NOAA-12 | 1707.0000 | 16:49:09 | 16:56:23 | 17:03 | 29 |
| 30Aug95 | NoAA-11 | 1698.0000 | 17:58:58 | 18:04:25 | 18:09 | 9  |
| 30Aug95 | NOAA-12 | 1707.0000 | 18:29:18 | 18:36:07 | 18:42 | 22 |
| 30Aug95 | NOAA-9  | 1707.0000 | 19:02:41 | 19:09:34 | 19:16 | 20 |
| 30Aug95 | NOAA-9  | 1707.0000 | 20:42:40 | 20:50:01 | 20:57 | 32 |
| 30Aug95 | NOAA-14 | 1707.0000 | 22:56:04 | 23:03:08 | 23:10 | 25 |
| 31Aug95 | NOAA-14 | 1707.0000 | 00:36:26 | 00:43:39 | 00:50 | 26 |
| 31Aug95 | NoAA-11 | 1698.0000 | 03:31:14 | 03:38:43 | 03:46 | 43 |
| 31Aug95 | NOAA-12 | 1707.0000 | 04:00:18 | 04:06:33 | 04:12 | 15 |
| 31Aug95 | NoAA-11 | 1698.0000 | 05:12:57 | 05:19:17 | 05:25 | 15 |
| 31Aug95 | NOAA-12 | 1707.0000 | 05:38:47 | 05:46:10 | 05:53 | 40 |
| 31Aug95 | NOAA-9  | 1707.0000 | 06:18:08 | 06:24:03 | 06:29 | 12 |
| 31Aug95 | NOAA-9  | 1707.0000 | 07:56:28 | 08:04:08 | 08:11 | 54 |
| 31Aug95 | NOAA-14 | 1707.0000 | 11:29:40 | 11:37:11 | 11:44 | 31 |
| 31Aug95 | NOAA-14 | 1707.0000 | 13:10:37 | 13:17:38 | 13:24 | 22 |
| 31Aug95 | NoAA-11 | 1698.0000 | 16:04:19 | 16:12:07 | 16:19 | 52 |
| 31Aug95 | NOAA-12 | 1707.0000 | 16:28:03 | 16:34:34 | 16:41 | 16 |
| 31Aug95 | NoAA-11 | 1698.0000 | 17:46:04 | 17:52:13 | 17:58 | 13 |
| 31Aug95 | NOAA-12 | 1707.0000 | 18:07:09 | 18:14:31 | 18:21 | 37 |
| 31Aug95 | NOAA-9  | 1707.0000 | 18:50:11 | 18:56:31 | 19:02 | 14 |
| 31Aug95 | NOAA-9  | 1707.0000 | 20:29:29 | 20:37:05 | 20:44 | 45 |
| 31Aug95 | NOAA-14 | 1707.0000 | 22:45:41 | 22:52:24 | 22:59 | 19 |

92

From P.85

22134 Date : 22.04.96 03:50:09 LC : B IQ : 00  
Lat1 : 19.838N Lon1 : 155.145W  
221 2241 2114 10  
00 00

22134 Date : 23.04.96 12:36:29 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
221 2507 1583 13  
00 00

22134 Date : 23.04.96 23:51:02 LC : 2 IQ : 60  
Lat1 : 19.878N Lon1 : 155.104W  
223 2074 2111 10  
00 00

↑ Symposium paper

11

22134 Date : 24.04.96 23:33:36 LC : B IQ : 00  
Lat1 : 19.787N Lon1 : 155.007W  
221 1934 2109 10  
01 00

22134 Date : 26.04.96 01:07:28 LC : A IQ : 00  
Lat1 : 19.872N Lon1 : 155.114W  
222 1869 1761 12  
00 00

22134 Date : 27.04.96 01:02:18 LC : B IQ : 00  
Lat1 : 19.877N Lon1 : 155.100W  
221 1694 2112 10  
00 00

22134 Date : 29.04.96 16:59:18 LC : B IQ : 00  
Lat1 : 19.773N Lon1 : 155.218W  
186 21969 44369 50386  
02 47

22134 Date : 03.05.96 00:00:07 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
226 1473 1617 2061  
00 00

22134 Date : 03.05.96 12:21:47 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
225 2126 933 19  
03 01

22134 Date : 04.05.96 04:25:43 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
227 606 1613 12  
00 00

22134 Date : 05.05.96 04:02:41 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
225 16528 1488 14  
00 00

22134 Date : 06.05.96 03:40:59 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
225 800 2478 25445  
01 45

22134 Date : 06.05.96 11:56:58 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
226 1933 759 27  
00 00

TO P.101



ST-3

22126

TAGS N439/N440/B800

HAWKSBILL 93

SL-88.1  
CL-94.5

Sy. 208555  
REFURBISHED 6/95  
Tygon antenna  
FULL LENGTH

DEPLOYED KAMEHAME

22.8.95 1825 GMT

ON 7pm, 7am  
OFF 1pm, 1am

GMT-10h = HST

(NESTED SUCCESSFULLY)  
8/24/95 5th time this season.

-First 6/18/95.

KAMEHAME

22126 Date : 22.08.95 11:34:54 LC : 3 IQ : 60  
Lat1 : 19.144N Lon1 : 155.464W plotted

22126 Date : 28.08.95 23:22:49 LC : (A) IQ : 00  
Lat1 : 19.202N Lon1 : 155.380W ← need

22126 Date : 30.08.95 00:53:37 LC : (B) IQ : 00  
Lat1 : 19.180N Lon1 : 155.443W ← need

22126 Date : 31.08.95 04:07:31 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

09092 22126 3 6 J  
1995-08-30 00:54:00 2 241 1945 2122 10  
00 00

09092 22126 3 6 D  
1995-08-31 04:07:31 1 240 2322 1632 13  
00 00

09092 22126 3 6 D  
1995-09-04 04:16:37 2 240 2579 2131 10  
00 00

22126 Date : 09.09.95 04:07:25 LC : (B) IQ : 00 plotted (1)  
Lat1 : 19.206N Lon1 : 155.582W

09092 22126 5 6 D  
1995-09-09 04:07:03 1 240 1124 590 (36)  
00 00  
1995-09-09 04:07:47 1 240 1124 590 (39)  
00 17

NO ARGOS POSITION FOR TIME Nesting

22126 Date : 12.09.95 04:47:38 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

242 522 923 (23)  
00 01

22126 Date : 12.09.95 12:52:10 LC : (B) IQ : 00  
Lat1 : 19.478N Lon1 : 154.626W

234 72 228 (348)  
00 00

15 MILES  
east, off Cape Kumukahi

22126 Date : 13.09.95 23:47:40 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

22126 Date : 13.09.95 12:43:04 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

ORIGINALY N439  
TAGGED 9/19/95  
KAMEHAME  
Nesting again  
in 1993 season

In this season  
HST  
10 sept 95  
0021-0206  
NESTING  
= 1021-  
1206 10 sept  
GMT 95

Need  
DIVING  
DATA

22126

09092 22126 3 6 J  
1995-09-13 12:43:04 1 241 603 203 (102)  
00 00

09092 22126 3 6 J  
1995-09-13 23:47:41 1 245 516 642 (1192)  
00 17

22126 Date : 14.09.95 12:24:29 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

241 1457 196 (109)  
00 00

22126 Date : 14.09.95 23:42:23 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

244 512 423 (50)  
00 01

22126 Date : 18.09.95 11:39:36 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 1788 301 (70)  
00 00

22126 Date : 22.09.95 00:12:07 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

242 (484) 808 (26)  
00 00

09092 22126 5 6 J  
1995-09-22 12:36:11 1 240 2002 610 34  
00 00  
1995-09-22 12:37:41 1 241 2002 610 34  
00 00

09092 22126 3 6 J  
1995-09-22 23:53:08 1 241 480 1506 14  
00 02

22126 Date : 22.09.95 23:53:07 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

241 (480) 1506 (14)  
00 02

22126 Date : 25.09.95 04:59:18 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 (1005) 4681 9362  
01 (13)

09092 22126 3 6 D  
1995-09-25 04:59:18 1 240 1005 4681 9362  
01 13

22126 Date : 25.09.95 12:08:32 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 (1807) 393 (53)  
00 00

235 1619 1751 09  
03 (12)

22126 Date : 26.09.95 23:12:26 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

241 673 953 22  
00 00

22126 Date : 27.09.95 11:48:47 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

239 1450 273 32878  
00 40

22126 Date : 27.09.95 23:02:32 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 06 1101 19  
00 00

22126

22126 Date : 28.09.95 13:14:02 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

238 1667 404 51  
00 00

22126 Date : 29.09.95 00:36:45 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

238 14 994 21  
00 01

22126 Date : 29.09.95 13:07:01 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

238 1681 318 65  
00 00

22126 Date : 01.10.95 04:37:39 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

238 9417 37670 19867  
00 38

22126 Date : 02.10.95 23:50:12 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 778 1100 19  
00 00

22126 Date : 03.10.95 23:36:10 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

239 943 1227 17  
00 00

22126 Date : 09.10.95 11:15:17 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

236 1856 441 47  
00 00

Plotted (2)

22126 Date : 14.10.95 23:18:07 LC : A IQ : 60  
Lat1 : 20.149N Lon1 : 155.338W Lat2 : 23.813N Lon2 : 138.597W

235 1619 1751 09  
03 12

22126 Date : 16.10.95 11:37:12 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

234 2118 437 48  
00 00

22126

22126 Date : 17.10.95 13:14:57 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

234 1793 483 43  
00 00

22126 Date : 18.10.95 00:31:28 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

236 747 1612 13  
00 00

22126 Date : 19.10.95 12:54:01 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

235 2054 577 36  
00 00

✓ 22126 Date : 22.10.95 13:55:50 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

235 2170 17489 4115  
00 00

✓ 22126 Date : 25.10.95 04:13:46 LC : Z IQ : 00  
2 Lat1 : ??????? Lon1 : ????????

236 812 1618 13  
00 00

*53.9 min x 13 = 701.7 ÷ 60 = 11.68h*

✓ 22126 Date : 28.10.95 00:22:02 LC : Z IQ : 00  
3 Lat1 : ??????? Lon1 : ????????

238 1112 1238 17  
00 00

1 22126 Date : 30.10.95 23:44:46 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

238 1723 1920 1  
00 00

2 22126 Date : 31.10.95 23:38:57 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 10 1765 12  
00 01

3 22126 Date : 03.11.95 00:56:48 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

239 518 1762 12  
00 00

*58.7 min x 12 = 705 ÷ 60 = 11.75h*

4 22126 Date : 04.11.95 13:19:34 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

239 1653 608 34  
00 00

5 22126 Date : 06.11.95 04:46:13 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

239 1428 1760 12  
00 00

6 22126 Date : 07.11.95 00:13:59 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

240 386 1162 18  
00 01

22126 Date : 09.11.95 03:43:45 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

239 952 1504 14  
00 18

22126 Date : 13.11.95 03:57:36 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
240 185 1045 16407  
02 03

~~22126 Date : 14.11.95 11:34:14 LC : Z IQ : 00~~  
~~Lat1 : ??????? Lon1 : ???????~~  
~~240 1621 374 56~~  
~~00 00~~

22126 Date : 14.11.95 11:34:14 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
240 1621 374 56  
00 00

X 22126 Date : 17.11.95 16:35:06 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
240 1955 454 46  
00 00

22126 Date : 20.11.95 23:19:24 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
240 565 1403 15  
00 00

22126 Date : 24.11.95 11:23:52 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
239 4015 2351 09  
00 00 *78.4min*

22126 Date : 26.11.95 00:04:18 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
239 1303 1635 13  
00 00 *54.5min*

22126 Date : 30.11.95 04:21:42 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
238 813 1762 13  
00 16 *58.7min*

22126 Date : 01.12.95 11:48:38 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
236 2136 1146 18  
00 00 *38.2min*

22126 Date : 02.12.95 00:40:46 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 703 1922 11  
00 00

22126 Date : 02.12.95 13:16:20 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
236 2509 668 31  
00 00

22126 Date : 05.12.95 16:47:39 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 1890 610 34  
00 00

22126 Date : 09.12.95 16:58:46 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 1496 552 38  
00 00

22126 Date : 11.12.95 03:46:48 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
238 778 1498 14  
00 00

22126 Date : 14.12.95 16:47:47 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 2103 746 28  
00 00

22126 Date : 19.12.95 11:55:37 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
235 2465 1163 18  
00 00

22126 Date : 21.12.95 00:40:54 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 1027 1923 11  
00 00

22126 Date : 23.12.95 00:19:40 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
238 1079 1320 16  
00 01

22126 Date : 23.12.95 12:50:46 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
255 8309 48264 25743  
03 24

22126 Date : 25.12.95 03:40:58 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 676 2359 1326  
01 32

22126 Date : 25.12.95 12:32:03 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 2737 519 41  
00 00

22126 Date : 26.12.95 04:56:51 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
238 1222 1518 14  
00 00

22126 Date : 28.12.95 13:37:49 LC : A IQ : 60  
Lat1 : 27.803N Lon1 : 169.161E Lat2 : 20.052N Lon2 : 155.343W  
237 3188 1330 16  
00 00

22126 Date : 01.01.96 17:01:28 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 1915 532 39  
00 00

22126 Date : 03.01.96 12:30:30 LC : B IQ : 00  
Lat1 : 19.974N Lon1 : 155.071W Lat2 : 21.021N Lon2 : 159.648W  
237 1628 374 56  
00 00

49.9

50.6mW

\* Plotted 3

\* Plotted 4

JAN 3, 96  
22126 Date : 03.01.96 23:44:47 LC : A IQ : 00 *plotted 5*  
Lat1 : 20.069N Lon1 : 155.610W Lat2 : 21.175N Lon2 : 150.576W  
238 17 3277 78  
02 11

22126 Date : 04.01.96 23:37:31 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 2266 1316 16  
00 00

22126 Date : 04.01.96 12:24:33 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 2172 334 63  
00 00

22126 Date : 07.01.96 13:31:35 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
237 2100 363 58  
00 00 *12min*

22126 Date : 19.01.96 04:41:31 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
236 2053 1764 12  
00 00

22126 Date : 20.01.96 00:19:11 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
236 06 2120 10  
00 01

22126 Date : 20.01.96 16:47:02 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
235 2313 648 32  
00 00

22126 Date : 21.01.96 23:49:33 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
235 1352 1765 12  
00 00

22126 Date : 24.01.96 01:12:25 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
235 1757 2849 5159  
01 63

22126 Date : 24.01.96 16:53:30 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
235 3064 1161 18  
00 05

22126 Date : 25.01.96 11:50:05 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
236 3000 672 31  
00 00

FEB 1, 96  
22126 Date : 01.02.96 23:34:32 LC : A IQ : 60 *plot 6*  
Lat1 : 20.097N Lon1 : 155.420W  
235 3978 2653 08  
00 00 *88min.*

22126 Date : 05.02.96 11:35:05 LC : (B) IQ : 00 Plot (7)  
Lat1 : 20.061N Lon1 : 155.460W Lat2 : 14.767N Lon2 : 131.789W

234 3744 (2102) 10 70MIN  
00 00

22126 Date : 07.02.96 04:19:38 LC : (B) IQ : 00 Plot (8)  
Lat1 : 20.141N Lon1 : 155.461W Lat2 : 24.548N Lon2 : 134.551W

235 1330 (2371) 09 79MIN  
00 00

22126 Date : 09.02.96 23:47:10 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

245 1654 28583 280  
03 46

22126 Date : 12.02.96 16:39:15 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

236 3194 (1746) 12  
01 00

Average due time w/ 12h  
t2 = 58.2 MIN.

22126 Date : 08.03.96 23:43:29 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

234 2429 19359 43527  
03 24

22126 Date : 10.03.96 23:29:42 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

234 08 1629 13  
00 03

22126 Date : 11.03.96 01:06:55 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

234 1453 1629 13  
00 00

22126 Date : 08.03.96 03:31:42 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

233 1673 1764 12  
00 00

22126 Date : 11.03.96 13:38:44 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

232 2103 947 22  
00 00

X 22126 Date : 14.03.96 17:01:23 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

233 1871 698 30  
00 00

X 22126 Date : 15.03.96 00:23:17 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

234 1287 1414 15  
00 00

22126 Date : 16.03.96 16:25:19 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

232 2423 797 26  
00 00

22126 Date : 07.04.96 12:05:33 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

233 3157 791 6171  
00 36

22126 Date : 12.05.96 12:29:19 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????



From p. 42

22134 Date : 11.05.96 00:09:11 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

101

226 15 1496 14  
00 01

22134 Date : 11.05.96 03:32:58 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

223 247 34507 56590  
00 52

22134 Date : 13.05.96 23:33:50 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

226 454 1235 17  
00 00

22134 Date : 16.05.96 00:53:13 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

224 1002 1312 3857  
00 53

22134 Date : 18.05.96 16:52:49 LC : B IQ : 00  
Lat1 : 19.956N Lon1 : 155.164W

223 760 5174 955  
03 02

22134 Date : 28.05.96 00:25:39 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

228 1653 1304 16  
00 00

NOTCH LENGTH:

CURVED CARAPACE LENGTH:

HEAD WIDTH:

POST. VENT. OF NO. OR. LA. SV.

TAIL LENGTH:

HIGHT FRONT FLIPPER WIDTH:

PLASTON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

CONTINUED FROM P. 110

22/34

22134 Date : 23.12.95 04:25:16 LC : B IQ : 00  
Lat1 : 19.903N Lon1 : 155.148W  
227 1557 1935 11  
00 00

22134 Date : 23.12.95 16:50:33 LC : 0 IQ : 50  
Lat1 : 19.845N Lon1 : 155.018W  
227 2107 1587 13  
00 00

22134 Date : 25.12.95 23:39:24 LC : B IQ : 00  
Lat1 : 19.847N Lon1 : 154.166W  
228 1912 2122 10  
00 00

22134 Date : 26.12.95 13:57:02 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
227 2596 1373 15  
00 00

22134 Date : 27.12.95 23:18:32 LC : A IQ : 00  
Lat1 : 19.685N Lon1 : 153.880W  
226 1875 2659 08  
00 00

22134 Date : 28.12.95 11:59:12 LC : B IQ : 00  
Lat1 : 19.970N Lon1 : 155.332W  
227 2320 1474 14  
00 00

22134 Date : 30.12.95 11:32:31 LC : B IQ : 00  
Lat1 : 19.820N Lon1 : 155.027W  
226 2382 1694 12  
00 00

22134 Date : 01.01.96 17:00:25 LC : 1 IQ : 60  
Lat1 : 19.891N Lon1 : 155.133W  
226 1727 1467 14  
00 00

22134 Date : 04.01.96 23:37:55 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ???????  
228 1813 1913 11  
00 00

22134 Date : 07.01.96 00:57:06 LC : A IQ : 00  
Lat1 : 19.910N Lon1 : 155.052W  
227 1543 1747 12  
00 00

plot plot

22134 Date : 06.01.96 23:09:32 LC : B IQ : 00  
Lat1 : 19.689N Lon1 : 154.751W  
228 1330 1747 12  
00 00

+

22134 Date : 10.01.96 12:58:15 LC : B IQ : 00  
Lat1 : 19.840N Lon1 : 155.020W  
226 2128 1204 17  
00 00

Plot

22134 Date : 11.01.96 12:48:39 LC : B IQ : 00  
Lat1 : 19.874N Lon1 : 154.872W  
226 1839 854 24  
00 00

Plot

22134

22134 Date : 15.01.96 16:56:53 LC : (B) IQ : 00 Plot

Lat1 : 20.141N Lon1 : 155.390W

226 1973 1369 15  
00 00

22134 Date : 15.01.96 23:23:38 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

227 1989 1757 12  
00 00

22134 Date : 17.01.96 00:51:48 LC : (0) IQ : 50 Plot

Lat1 : 19.858N Lon1 : 155.066W

226 10196 6051 18475  
00 00

22134 Date : 17.01.96 13:20:20 LC : (B) IQ : 00 Plot

Lat1 : 19.820N Lon1 : 155.097W

225 2171 1457 14  
00 00

22134 Date : 22.01.96 23:48:08 LC : Z IQ : 10  
Lat1 : 18.892N Lon1 : 142.001W Lat2 : 13.086N Lon2 : 160.542W

223 2028 2359 09  
00 00

22134 Date : 26.01.96 00:54:03 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

223 2483 2116 10  
00 00

22134 Date : 27.01.96 05:08:25 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

225 2194 2115 10  
00 00

22134 Date : 28.01.96 04:36:45 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

223 1935 2118 10  
00 00

22134 Date : 29.01.96 16:46:52 LC : (0) IQ : 50 Plot

Lat1 : 19.849N Lon1 : 155.116W

224 2213 1467 14  
00 00

25688 Date : 30.01.96 18:56:46 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

168 451 176 116  
00 02

22134 Date : 31.01.96 03:34:29 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

224 34315 1868 38850  
01 57

24179 Date : 31.01.96 05:12:00 LC : Z IQ : 10  
Lat1 : 21.232N Lon1 : 158.784W

29232 29232

22134 Date : 01.02.96 04:57:58 LC : (B) IQ : 00 Plot

Lat1 : 19.350N Lon1 : 155.585W

224 2278 1919 11  
00 02

22134 Date : 02.02.96 23:20:48 LC : A IQ : 00  
 Lat1 : 19.847N Lon1 : 155.213W  
 225 1836 2349 09  
 00 00

Plot

22134 Date : 02.02.96 12:12:22 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 223 2853 1723 12  
 00 00

22134 Date : 06.02.96 11:26:28 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 224 2489 1585 13  
 00 00

22134 Date : 07.02.96 04:28:39 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 224 1181 2109 10  
 00 00

22134 Date : 12.02.96 23:17:36 LC : A IQ : 00  
 Lat1 : 19.869N Lon1 : 155.124W  
 223 2737 2659 9736  
 00 05

Plot

22134 Date : 14.02.96 00:50:21 LC : B IQ : 00  
 Lat1 : 19.745N Lon1 : 154.905W  
 224 1258 2124 10  
 00 00

Plot

22134 Date : 16.02.96 00:22:58 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 224 1790 1921 11  
 00 00

22134 Date : 17.02.96 12:45:54 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 222 2615 2081 10  
 00 00

22134 Date : 17.02.96 16:38:02 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 223 2123 2081 10  
 00 00

22134 Date : 19.02.96 23:40:33 LC : B IQ : 00  
 Lat1 : 19.880N Lon1 : 155.077W  
 223 3212 4277 4161  
 00 36

22134 Date : 21.02.96 16:47:25 LC : A IQ : 00  
 Lat1 : 19.875N Lon1 : 155.143W  
 223 3378 2095 10  
 00 00

22134 Date : 26.02.96 00:11:24 LC : Z IQ : 10  
 Lat1 : 19.842N Lon1 : 155.137W  
 222 2254 4078 2822  
 02 24

22134 Date : 02.03.96 16:31:29 LC : B IQ : 00  
 Lat1 : 19.950N Lon1 : 155.183W  
 223 1859 1727 12  
 00 00

To P. 25

OLD STYLE  
TYGON ONLY  
PART way  
up Antenna

22134 ST-3 B773/B774

HAWKSBILL

105

SL- 83.0 SY9487  
CL- 90.0 9/15/94 BATTERY

DEPLOYED KAMEHANE

24.08.95 1835 GMT

ON 7PM, TAM  
OFF 1PM, TAM

GMT-10h = HST (DID NOT NEST SUCCESSFULLY)

22134 Date : 23.08.95 11:24:51 LC : 2 IQ : 60  
Lat1 : 19.144N Lon1 : 155.469W

22134 Date : 24.08.95 11:14:28 LC : 2 IQ : 60  
Lat1 : 19.144N Lon1 : 155.470W

22134 Date : 25.08.95 12:44:01 LC : B IQ : 00  
Lat1 : 19.387N Lon1 : 155.617W

22134 Date : 26.08.95 16:44:58 LC : A IQ : 00  
Lat1 : 19.137N Lon1 : 155.614W

22134 Date : 26.08.95 23:45:10 LC : 1 IQ : 50  
Lat1 : 19.108N Lon1 : 155.475W

22134 Date : 27.08.95 01:26:22 LC : A IQ : 07  
Lat1 : 19.073N Lon1 : 155.484W

22134 Date : 27.08.95 03:51:01 LC : A IQ : 08  
Lat1 : 19.218N Lon1 : 155.472W

22134 Date : 29.08.95 12:01:33 LC : 2 IQ : 50  
Lat1 : 19.144N Lon1 : 155.462W

22134 Date : 29.08.95 23:13:07 LC : B IQ : 00  
Lat1 : 19.131N Lon1 : 155.450W

09092 22134 3 6 J  
1995-08-30 11:53:49 1 229 34653 19751 49928  
02 30

22134 Date : 30.08.95 23:06:44 LC : B IQ : 00  
Lat1 : 19.176N Lon1 : 155.355W

09092 22134 7 6 J 2 1995-08-29 12:01:34 19.144 204.538 0.000 401649972  
1995-08-29 11:57:19 1 226 13 244 714  
03 63

22134 Date : 03.09.95 00:13:22 LC : A IQ : 00  
Lat1 : 19.146N Lon1 : 155.397W

09092 22134 3 6 J  
1995-09-03 00:14:13 3 230 1989 1508 14  
00 00

09092 22134 3 6 D  
1995-09-03 04:36:43 1 230 1842 1508 14  
00 00

22134 Date : 04.09.95 16:45:33 LC : B IQ : 00  
Lat1 : 19.154N Lon1 : 155.571W

09092 22134 3 6 D  
1995-09-04 16:45:59 2 229 1593 1740 12  
00 00

NEWLY TAGGED  
THIS SEASON  
7/17/95 EGGS

Seen successfully  
nesting  
8/28 2300  
8/29 0155-  
0250  
T 10h  
GMT =  
8/29/000-  
1400

Defective  
hind flippers

need  
plot

need  
plot

need  
plot

22134

22134 Date : 07.09.95 01:03:52 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

09092 22134 3 6 J  
1995-09-07 01:03:52 1 230 1840 1627 13  
00 00

22134 Date : 08.09.95 01:00:27 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

22134 Date : 08.09.95 04:36:17 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

09092 22134 3 6 J  
1995-09-08 01:00:27 1 230 2129 1510 14  
00 00

09092 22134 3 6 D  
1995-09-08 04:36:17 1 230 2204 1510 14  
00 00

need plot

22134 Date : 11.09.95 00:25:06 LC : B IQ : 00  
Lat1 : 19.126N Lon1 : 155.427W

09092 22134 3 6 D  
1995-09-08 16:55:49 1 230 05 1900 11  
00 00

09092 22134 3 6 J  
1995-09-11 00:25:32 2 230 2214 1513 14  
00 00

22134 Date : 11.09.95 15:54:56 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

242 522 923 23  
00 01

22134 Date : 13.09.95 00:00:05 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

230 2200 2125 10  
00 00

need plot

22134 Date : 14.09.95 16:29:53 LC : A IQ : 00  
Lat1 : 19.132N Lon1 : 155.447W

230 46 1915 11  
00 00

still home?

22134 Date : 17.09.95 11:58:33 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

232 2331 838 25  
00 00

22134 Date : 17.09.95 11:58:33 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

232 2331 838 25  
00 00

22134 Date : 17.09.95 17:00:43 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

232 342 838 25  
00 00

22134

22134 Date : 18.09.95 11:48:56 LC : Z IQ : 00

Lat1 : ??????? Lon1 : ????????

232 (2187) 1001 21  
00 00

22134 Date : 19.09.95 16:24:08 LC : B IQ : 00

Lat1 : 19.196N Lon1 : 155.556W

232 (1018) 598 35  
00 01

*First  
report away  
from Kanehame  
(Just north of  
Cape Kumukahi)*

22134 Date : 21.09.95 00:17:39 LC : Z IQ : 00

Lat1 : ??????? Lon1 : ????????

233 (784) 558 38  
00 00

09092 22134 3 6 D

1995-09-22 04:28:47 1 232 331 1332 16  
00 01

09092 22134 11 6 J

1995-09-22 23:52:38 1 240 50 851 25  
00 00

1995-09-22 23:54:40 1 240 48 851 25  
00 00

1995-09-22 23:56:38 1 240 52 851 25  
00 01

1995-09-23 00:00:12 1 240 61 851 25  
00 00

22134 Date : 22.09.95 23:56:25 LC : 0 IQ : 50

Lat1 : 19.086N Lon1 : 155.546W Lat2 : 18.991N Lon2 : 155.966W

240 (48) 851 25  
00 00

22134 Date : 23.09.95 04:06:24 LC : A IQ : 00

Lat1 : 19.126N Lon1 : 155.541W

231 (52) 851 25  
00 00

22134 Date : 23.09.95 23:42:27 LC : Z IQ : 10

Lat1 : 19.075N Lon1 : 155.761W Lat2 : 20.212N Lon2 : 150.566W

239 (26) 545 39  
00 00

22134 Date : 25.09.95 13:46:42 LC : Z IQ : 00

Lat1 : ??????? Lon1 : ????????

231 (2607) 349 60  
00 00

22134 Date : 25.09.95 23:25:42 LC : Z IQ : 00

Lat1 : ??????? Lon1 : ????????

235 (490) 819 26  
00 00

22134 Date : 26.09.95 23:08:14 LC : B IQ : 00

Lat1 : 19.319N Lon1 : 155.250W

233 (644) 1521 14  
00 00

22134

22134 Date : 28.09.95 11:33:12 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

230 113 196 106  
00 00

22134 Date : 29.09.95 00:33:07 LC : 0 IQ : 50  
Lat1 : 19.531N Lon1 : 154.822W

239 19 470 45  
00 00

22134 Date : 30.09.95 00:23:01 LC : B IQ : 00  
Lat1 : 19.664N Lon1 : 154.919W

233 581 1011 21  
00 00

22134 Date : 01.10.95 00:12:45 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

230 500 884 24  
00 00

22134 Date : 02.10.95 23:51:22 LC : B IQ : 00  
Lat1 : 19.623N Lon1 : 155.715W

230 1295 1926 11  
00 00

22134 Date : 05.10.95 01:07:27 LC : B IQ : 00  
Lat1 : 19.906N Lon1 : 155.048W

230 2028 1926 11  
00 00

22134 Date : 06.10.95 04:20:33 LC : B IQ : 00  
Lat1 : 19.908N Lon1 : 155.121W

229 2243 2122 10  
00 00

22134 Date : 07.10.95 04:04:29 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

230 2300 2126 10  
00 00

22134 Date : 11.10.95 16:47:06 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

229 2033 1751 12  
00 00

22134 Date : 15.10.95 04:22:36 LC : B IQ : 00  
Lat1 : 20.014N Lon1 : 155.218W Lat2 : 24.560N Lon2 : 133.837W

228 2278 2118 10  
00 00

22134 Date : 15.10.95 13:35:55 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

228 2330 1900 11  
00 00

22134 Date : 17.10.95 11:27:08 LC : B IQ : 00  
Lat1 : 19.763N Lon1 : 155.151W

229 2356 1607 13  
00 00



22134 Date : 17.10.95 11:27:08 LC : B IQ  
Lat1 : 19.763N Lon1 : 155.151W

CAPTURE DATE, LOG

229 (2356) 1607 13  
00 00

22134 Date : 18.10.95 11:18:25 LC : B IQ  
Lat1 : 19.821N Lon1 : 155.166W

PERSON RECORDING

229 (2412) 1300 16  
00 00

OLD TAGS:

22134 Date : 20.10.95 00:10:55 LC : B IQ : 00  
Lat1 : 20.012N Lon1 : 155.320W

229 (2419) 2123 10  
00 00

✓ 22134 Date : 25.10.95 11:44:03 LC : B IQ : 00  
Lat1 : 19.850N Lon1 : 155.125W

229 (2505) 1742 12  
00 02

22134 Date : 30.10.95 00:00:52 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

STRAIGHT ON

229 (1468) 1760 12  
00 00

NO

22134 Date : 05.11.95 00:31:31 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

228 1905 (1921) 11  
00 00

22134 Date : 09.11.95 23:36:50 LC : Z IQ : 10  
Lat1 : 21.717N Lon1 : 147.467W Lat2 : 19.876N Lon2 : 155.934W

HEAD WIDTH

227 (2108) 2357 09  
00 00

22134 Date : 12.11.95 23:11:58 LC : 0 IQ : 50  
Lat1 : 24.959N Lon1 : 131.936W Lat2 : 19.744N Lon2 : 155.257W

229 (1729) 2115 32842  
00 00

22134 Date : 16.11.95 00:10:01 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

RIGHT FROM 229 (1801) 2123 10  
00 00

22134 Date : 15.11.95 04:48:02 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

229 (1926) 1922 11  
00 00

X 22134 Date : 17.11.95 12:32:52 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

DES 228 (2178) 1732 12  
00 00

22134 Date : 22.11.95 11:47:13 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

227 (2293) 1590 13  
00 00

22134 Date : 23.11.95 13:17:34 LC : Z IQ : 00  
Lat1 : ??????? Lon1 : ????????

228 (2671) 1589 13  
00 00

22134 Date : 25.11.95 00:17:08 LC : A IQ : 60  
 Lat1 : 19.888N Lon1 : 155.142W

228 1532 2658 08  
 00 00

22134 Date : 27.11.95 23:45:00 LC : A IQ : 60  
 Lat1 : 19.902N Lon1 : 155.027W  
 227 2152 1756 12  
 00 00

22134 Date : 28.11.95 12:22:32 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 227 2673 1891 11  
 00 00

22134 Date : 28.11.95 23:33:05 LC : A IQ : 60  
 Lat1 : 19.908N Lon1 : 154.968W  
 228 1762 2121 10  
 00 00

22134 Date : 29.11.95 12:07:55 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 228 2327 1743 12  
 00 00

22134 Date : 01.12.95 13:28:40 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 227 2146 1374 15  
 00 00

22134 Date : 06.12.95 12:32:03 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 227 2164 1467 14  
 00 00

22134 Date : 09.12.95 01:07:46 LC : A IQ : 60  
 Lat1 : 19.850N Lon1 : 155.078W  
 229 1856 1752 12  
 00 00

22134 Date : 09.12.95 17:00:19 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 228 1224 1737 45645  
 02 54

22134 Date : 11.12.95 03:48:12 LC : Z IQ : 00  
 Lat1 : ??????? Lon1 : ???????  
 228 1803 1615 13  
 00 00

22134 Date : 16.12.95 23:41:41 LC : 1 IQ : 50  
 Lat1 : 19.882N Lon1 : 155.103W  
 228 2016 11702 37449  
 00 36

22134 Date : 17.12.95 04:58:07 LC : B IQ : 00  
 Lat1 : 19.786N Lon1 : 155.246W  
 228 1874 2115 10  
 00 00

22134 Date : 19.12.95 13:33:47 LC : A IQ : 00  
 Lat1 : 19.786N Lon1 : 155.102W  
 227 2186 1584 13  
 00 00

Go to P. 102

Passed away  
a couple months  
later

#28

111

5 July 95

NAUTILUS  
Bill - Hilo  
Turtle # F-594  
seen recently

Michelle  
Hyrman  
Kelli Bio  
Michelle Clapparo

969-3491

sent

\* Heather <sup>(white girl)</sup> - Send info (interested in F.F.S. project) \*  
and Julie Kaneshiro } 2813 Quail Ridge Drive  
465 Hinano St. } Plainsboro, NJ 08536 (609-936-0841)

sent

Hilo, HI 96720  
also included in F.F.S. project

Chris May

Joseph Tegeber 4716 Ridgewater Ct. Holly Springs NC 27540

Heather Holgett

Bethany Smith

Kelly L. Walsh

Raymond Bousenberry 5 Lexington Rd Bordentown W.J. 08505

Adam Korubal Jr 9 SUNSET TERR. SUCCASUNNA NJ 07876

Tony Kaska 1510 OAKWOOD PARK RIDGE DR 60068

Kurt Brown

Melissa Maurice 70 Paddles Rd Preston, CT 06365


Melody Russell

Nathan Raehrig

Kimberly L. Eliason

Virginia Perez

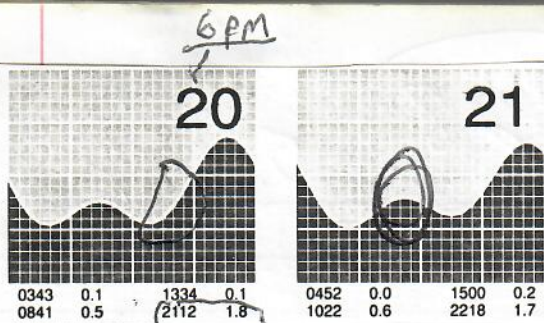
Ph. (808) 928-6294  
P.O. Box 490  
Pahala, HI  
96777



**NĀ WA'A**  
Sailing excursions  
Construction  
Brokerage  
Rentals  
Design

Capt. Kiko Johnston-Kitazawa

95112  
APRIL



PUNALUÚ #27

Have: 2 - 50' x 8' NO floats  
1 - 100' 5' NO floats

20 APRIL 95 Depart FL 436 ALOHA 11 AM  
Thurs.

- Needs: -
- Check w/Connie regarding skin plug in SDS
  - Call Sylvia Braddon
  - Nets HPA Has - inventory
  - TDR's & wire & fiberglass on SONICS
  - List of participants PAGE 128
  - Snorkel Bay at night - Tide too high for horse shoe.

Need to check  
to 6mm dorsal RH  
7/95 Biopsy

F9-F11, K578

Not captured  
Punaluu  
#27

V357-59, J418

4/21/95  
Capture - would  
No Biopsy would  
Seen BUT I  
DID NOT specify  
look.

4/21 Friday  
Depart Hilo F75 445pm

Send  
Handy Pukui  
- Dictionary

CHRIS BANGAY

P.O. Box 754  
PAHALA, HI 96777

Met on plane going to Hilo -

STERLING CHRISTOPHER

PO BOX 89

KIKAUKA, KAUAI

96954

828-2152

4721 ANINI RD

ANINI BEACH.

Offered to show me many sleeping turtles on the reef.  
- Seal Jeanette  
Walt - Honuapo?

need - Call - Herb Kane

- PAINTING  
+ Ceremony

Danny AKAKA for ABRAHAM AKAKA  
Mo. Lo. Birthday + Seivator

Ceilani HINO - Release 2 turtles

Find - Many Pukui newspaper article

Write letter to newspapers Re: Honu Project

Quarterly Report  
JOHNNY LUM HO "Honu HULA" Monument  
YOST TO HAWAII KATAHIAA HOWARD KANE PUKUI TO

4/21 Walked to Turtle Bay with ROZ, JOHN, Laura & Malia. photos taken.

4/21 AM Tractor Scoop - County - cleared sand road behind dune. Built up abnormal steep dune again. Storm waves had broken dune through as seen when we arrived

need - Turnover paper to

Scuba survey paper to Michelle HAYES

Xerox page 124 Table and

have Shaun Redo. Plaque text from Walt

done

## Punaluu #28

5 July 95

Wednesday

Depart along for Hilo Aloha FL 404,  
 Planned day trip only w/ Leon's Summer class.  
 Misunderstanding resulted in Summer class  
 coming 27-28 June - compact only,

Objectives:

- 1.) Highly Controlled Sampling of turtles - one at a time.
- 2.) See if turtle is still in pond - rescue if possible.
- 3.) Stranded turtle at Kapoho? 6/22/95 Forest (father Dave) 965-7802

4.) Inspect Kamehame <sup>was</sup> Called 6/30/95 by Katalina saying 5-6 turtles nested since early June start of month. One turtle dug into existing egg nest. Skin (Pipsy?) But Fanny said this has only ever happened (seen) a couple of times. One turtle nested this year (June) so far at Kamehame. They have made trails for hatchlings to get to the sea without getting caught in docks. Fanny says turtles digging into existing nest can be harassed (made to move) - OK in Permit.

- 5.) Bury data logger at Kamehame 40 cm (Gill said max. depth 55-60 cm of bank nests).

Summer school class at Punaluu - Carey, Hallacher, Dudley, Mike Childers, Keali'i B10  
 Rotated catching stations in water.  
 Never had more than 2 turtles under shade,  
 at one time. 13 captures - 12 old, 1 new

Tent

ONSET  
 STOWAWAY  
 KAMEHAME  
 5 July  
 7:30 pm  
 (1930h)

- 9.) Ship Turtle container to Jill  
 10.) MAIL articles to Jill  
 11.) Hand Pupper Tagged  
 12.) Whitlow Balazs monk seal parasite paper  
 13.) Jill address  
 14.) Contact Francis  
 15.) Buttons  
 16.) call Danny  
 17.) DNA coat  
 18.) 125 TAGS  
 19.) Pliers to Phil  
 20.) First ever tagged 6/95  
 21.) KAMEHAME 5-6 JULY 95  
 22.) Print out/ tape in emails to Leon w/ photo  
 23.) rec: addresses & pop. numbers at Punaluu  
 24.) Petroglyphs  
 25.) UH-Hilo Hawaiian studies program - Hawaii  
 26.) Mrs Howard  
 27.) Cuddly - Pahaia school Kupuna program  
 28.) Call Heacok - Lawaikai  
 29.) TRG history to Malika Dudley J69; & Emily Dudley K284  
 30.) PLASMA-BANKING Blood - Paloa  
 31.) HVNP permit

B755 B757 7/5/9  
 (B767 LH <sup>new 7/5 by GHB</sup> B766 RH <sup>new 7/5 by GHB</sup> 7/5/9)

EXISTING Hawksbills KAMEHAME

L 1-2 R177 R183 RFL 7/6/95 630 AM  
 above with applied 1993 <sup>handwritten</sup> Close Close TO ERGIE!

2) Sebel  
 F594  
 Deloy  
 → Seen trying to crawl up hillside. Later excavating with hind flippers at edge of Naupaka. Abandoned and returned to the water "walking like a dog"

Sea water at Punaluu Bay = 79° F offshore  
 Near = 18 ppt thousand = 77.5° F near shore surface  
 Shore 18 ppt thousand

Ponds - Most southern end of NINOLE - 2 ppt thousand  
 Center pond with shallow inlet/outlet - 2 ppt  
 Watched ponds ~ 30 minutes - no turtles  
 (Many students) seen.  
 Turtle or turtles reportedly in, are on both (or one of the other) ponds a week to a month ago. STAYING UNDERWATER?

Summary of tagging and resighting data for green turtles  
 captured at Punaluu, Kau, Hawaii  
 Compiled by George H. Balazs

*Numbering  
not right*

| Expedition No.<br>and dates                     | Method<br>of capture | Total no.<br>captured | No. newly<br>tagged  | No. tag<br>resightings | Total no. tagged<br>in population<br>to date | Peterson<br>population<br>index<br>estimate * |
|-------------------------------------------------|----------------------|-----------------------|----------------------|------------------------|----------------------------------------------|-----------------------------------------------|
| 0. June 1976-Sept. 1976<br>*****<br>May 7, 1977 | SC<br>N              | 42<br>3               | 37<br>3 <sup>b</sup> | 5<br>0                 | 37 <sup>a</sup> =Monel tags<br>3             | -<br>-                                        |
| 1. Jan. 20-26, 1978                             | N, SC, SK            | 8                     | 8                    | (1)                    | 11                                           | -                                             |
| 2. Aug. 31-Sept. 3, 1978                        | SK                   | 10                    | 10                   | 0                      | 21                                           | -                                             |
| 3. July 26-29, 1981                             | N, SK                | 7                     | 7                    | 0                      | 28                                           | -                                             |
| 4. Nov. 26, 1983                                | SC                   | 3                     | 3 <sup>c</sup>       | 0                      | 31                                           | -                                             |
| 5. Dec. 15-19, 1983                             | N, SC, SK            | 12                    | 10                   | 2 <sup>c</sup>         | 41                                           | 186                                           |
| 6. Jan. 8-10, 1984                              | N, SC, SK            | 13                    | 9                    | 4                      | 50                                           | 133                                           |
| 7. Feb. 17-19, 1984                             | N, SK                | 12                    | 10 <sup>d</sup>      | 2                      | 60                                           | 300                                           |
| 8. March 23-28, 1984                            | N, SC, SK            | 30                    | 20                   | 10                     | 80                                           | 180                                           |
| 9. April 13-14, 1984                            | N, SK                | 3                     | 2                    | 1                      | 82                                           | 240                                           |
| 10. May 14-17, 1984                             | N, SK                | 11                    | 7                    | 4 <sup>e</sup>         | 89                                           | 225                                           |
| 11. June 26-29, 1984                            | N, SK                | 13                    | 8                    | 5 <sup>d</sup>         | 97                                           | 231                                           |
| 12. March 23-25, 1987                           | N                    | 7                     | 5                    | 2                      | 102                                          | 339                                           |
| 13. March 21-23, 1988                           | N                    | 3                     | 3                    | 0                      | 105                                          | 102                                           |



|     |                      |        |    |                |                    |                  |     |
|-----|----------------------|--------|----|----------------|--------------------|------------------|-----|
| 15. | April 10-12, 1989j   | SK     | 14 | 11             | 3 <sup>f</sup>     | 116              | 490 |
| 16. | April 9-11, 1990     | SK     | 12 | 8              | 4 <sup>s</sup>     | 124              | 348 |
| 17. | July 18, 1990        | SK     | 12 | 5 <sup>a</sup> | 7                  | 129 <sup>f</sup> | 213 |
| 18. | Nov. 27-28, 1990     | BN, SK | 17 | 5              | 12 <sup>s, h</sup> | 134              | 183 |
| 19. | April 23-24, 1991    | BN, SK | 20 | 4              | 16                 | 138              | 167 |
| 20. | July 16-17, 1991     | BN, SK | 15 | 3              | 12                 | 141              | 172 |
| 21. | Nov. 12-13, 1991     | SK     | 24 | 8              | 16 <sup>f</sup>    | 149              | 211 |
| 22. | April 14-15, 1992    | SK, BN | 15 | 4              | 11                 | 152              | 203 |
| 23. | July 14-15, 1992     | SK, BN | 20 | 3              | 17 <sup>f</sup>    | 155              | 179 |
| 24. | Nov. 17-18, 1992     | SK, BN | 26 | 10             | 16                 | 165              | 252 |
| 25. | April 13-14, 1993    | SK, N  | 23 | 12             | 11                 | 177              | 345 |
| 26. | July 13-14, 1993     | SK     | 16 | 2              | 14                 | 179              | 202 |
| 27. | Nov. 30-Dec. 1, 1993 | SK     | 24 | 9              | 15                 | 188              | 286 |
| 28. | April 5-6, 1994      | SK     | 27 | 7              | 20                 | 195              | 254 |

Numbering  
no right

| Expedition No.<br>and dates | Method<br>of capture | Total no.<br>captured | No. newly<br>tagged | No. tag<br>resightings | Total no. tagged<br>in population<br>to date | Peterson<br>population<br>index<br>estimate * |
|-----------------------------|----------------------|-----------------------|---------------------|------------------------|----------------------------------------------|-----------------------------------------------|
| 29. July 5-6, 1994          | SK, BN               | 29                    | 3                   | 26                     | 198                                          | 217                                           |
| 30. Oct. 6-7, 1994          | SK, BN               | 26                    | 3                   | 23 <sup>h</sup>        | 201                                          | 224                                           |
| 31. April 20-21, 1995       | SK, BN               | 30                    | 3                   | 27                     | 204                                          | 223                                           |
| 32. JULY 5, 95              | SK                   | 13                    | 1                   | 12                     | 205                                          |                                               |

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

<sup>a</sup> Monel alloy tags. All other tags used are made from Inconel 625 alloy. "Total no. tagged to date" was computed separately for Monel and Inconel.

<sup>b</sup> Tagged turtle 5008 (8165) resighted 6/19/84 nesting at East Island, French Frigate Shoals.

<sup>c</sup> Tagged turtle 6711-13 resighted 7/9/86 nesting at East Island, French Frigate Shoals.

<sup>d</sup> Includes tagged turtle 7634-37 with four leeches, leech eggs, and likely small tumor in corner of right eye.

<sup>e</sup> Also includes tagged turtle (6182, 6242, 6260) originally tagged nesting at East Island, French Frigate Shoals, 6/82 and 8/82.

<sup>f</sup> Also 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, 6/82.

<sup>g</sup> Also includes tagged male (6360-61, Y650) originally tagged basking at Tern Island, French Frigate Shoals, 11/28/82.

<sup>h</sup> Includes tagged turtle N388-89, N537 with small tumor in corner of left eye.

<sup>i</sup> N376, N377 not included in total. This turtle, rescued by Jerome Jude early July 1990 off Kona, released at Punaluu 7/17/90. Straight carapace length 19.8cm.

<sup>j</sup> 100 turtles newly tagged since Expedition 15 which marked the beginning of daytime capturing.

\* No. tagged turtles recaptured = Total No. turtles tagged

Total No. turtles captured = Total No. turtles in resident population (X)

7/5/95 New Gift shop opened in Punaluu stands -  
TUES. selling shirts with sea turtles.

Hawaiian monk seal started in  
Departed ~ 500pm with Jill Lippert &  
Emily (14 y.o.) for Hanalei, left  
rental car at Palapa Hospital parking  
lot. Sat on Hanalei Beach starting  
~ 730pm. Noted Nauyaka less than  
in the past - storm waves caused it. Saw  
nesting sites all right at edge of Nauyaka -  
none way under water, are possible in sand.

7/5/95  
730pm

Burriel's data lags 40-45cm.  
Euthanasia problems have occurred,  
Volunteer wrote letters to Head of  
Park Service, etc. Dan Taylor retired -  
~ 6 months ago. Tim T <sup>Resource</sup> <sup>Manager</sup>

working

slide  
baiting

ANTS - VERY Numerous - everywhere. <sup>Reportedly</sup> BITE HITCHHIKERS  
(18) Kathy Smith - signs for Hanalei (19) recent nesting  
or are of my metal ones at Palapa.  
(20) ANT species? (21) mail Tern nesting <sup>need to guard against</sup>  
data to Susantitz <sup>falling in crack again.</sup>  
(22) Call Whitlow for lunch.  
(23) Contact copy - <sup>make</sup> <sup>web</sup> <sup>page</sup> (24) Recommendations from Feb Meeting.

7/5/95 First hawk shell at ~ 930pm. Crawled to cliff  
face, then laterally, then right between and  
low beach chairs, to just into Nauyaka.  
Virtually no front flippers, body fat  
excavation - or cover up, only chamber  
excavation with hind flippers. Finished  
at 1140pm - back to sea between  
us again. I applied 2 hind flipper tags.

EXISTING RFZ close to edge, LFL good. 120  
SL = TI CL = 83cm Small 60 Top 120

From P. 119

7/5/95

At sunset we saw <sup>several</sup> very small greens, right next to shore. ~~They~~ Feeding? Gill reports not many greens seen "basking" yet this season.

Departed Kamehame beach and went to sleep - midnight.

7/6/95  
Wednesday

at ~ 6 AM I checked beach and found large hawksbill  $\frac{1}{4}$  way up steep slope - impossible for it to go any higher. Returned w/ Jill ~ 6:30 pm. Turtle was departing with hind flippers right at start of haulover. Head always seems to be facing inland. AB entered after 10-15 minutes and "rumbled to the sea". Hawksbill movements seem to be very discrete - directed.

Very agile - coordinated, can turn left or right on a dime.

Departed Kamehame up the rough road at ~ 7 AM.

TO HILO Acoba  
Depart FL 415 at 9:50 AM  
via Kona, arrived  
Honolulu 11:50 AM

7/5-7/6/95 HONU O PUNALUU Sells  
 Gift stand t-shirts sea  
 w/ Turtles

GUY ENRIQUES  
 74-5039 HUAALA Street  
 KAILUA-KONA, HI 96740

JOHN  
 PACU

Home - 326-7873  
 BEACH - 928-8439

Says "when he was young he  
 he used to kill turtles, now  
 he sells t-shirts with them  
 on it"

Week of 7/10/95

John Kahiapo called to let you know that a big turtle is resting on the beach at Punaluu Beach Park. He said it's been doing that for about a week. He also said that it suppose to have tumors on the flippers (smaller than golfball size). He said that if he has time he'll be going to check out the turtle tomorrow. He said that a lot of tourists have been reporting this turtle. He also has been getting calls from Ka'u Outdoor Circle. They would like you to send them some information about turtles at: Ka'u Outdoor Circle, Attn: Halimah Shabazz, P.O. Box 789, Pahala, HI 96777. I asked John to call us back if he inspects this turtle.

Talked with George and he said that when he was there on July 5 he saw the turtle. The turtle has been basking for a couple of weeks and appears to be fine. He saw that there was nothing wrong with the turtle (he didn't see any tumors on the flippers). George recommends that people leave it alone and that it returns to the ocean when it feels like it. It appears that the turtle likes to bask and that John doesn't need to check out the turtle. George would like me to call Ka'u Outdoor Circle to let them know that the turtle is fine.

Talked with John on 7-11-95 at 8:05. I explained the situation and he thanked me for calling back. I told him that I would call Halimah Shabazz and explain the situation to her and mail her the article. He said to let you know that he'll be going out with the Coast Guard in September to Midway for fishery patrol for 2 weeks.

Talked with Mr. Shabazz on 7-11-95 at 8:10 and explained to him the situation. He appreciated us calling him back and I stated that we would be sending Mrs. Shabazz the article that talks about terrestrial basking. He thanked us for calling.

# Funeral #26

10/6 - 10/7/94

Thurs, Friday

Henry A. Young

Alisa M. Lapoza

Dr. Alan (Stefan Marasco)

Jerry Burtato

Susan York

Marie Victoria Andreda ☺

Bridgeth D. Campbell ☸

Katie Bourdon

Denise M. Butts ☸

Cindy J. Smith

Wendy Gibson

Sumner D. Phillips

Kris Herrick

Nicholas Issan

Stephen Roberts

ALETHA LEVY

Jamie Cyster

Wynne Redden

Susan Zacher

Mandi Byford

Lily L. Remsing

Brett MARTIN

Laren Corrin

DAVID A. PHILLIPS

David G. Wilson

Angela

|                   |
|-------------------|
| Ruey-Jian A. Wang |
| 958 Kumukoa St.   |
| Hilo, HI 96720    |

Send Taiwan articles

Not student  
FATHER

KEALLI BIO 959-2059

VICTORINO BIO 323-3582

(Shimoda) Homonua Park - Mangrove Manager

"KALA Pond"

PUNACU #27  
 55.9  
 ORIGINAL TAGGING YEAR FOR 28 Recaptures:  
 1981 - 1  
 1984 - 1  
 1988 - 2  
 1989 - 1  
 1990 - 1  
 1991 - 4  
 1992 - 7  
 1993 - 6  
 1994 - 5  
 For 4/20 - 4/21/95

AS of 4/20-4/21/95  
 PUNACU #27

30 captures

28 Recoveries

- 9 Recoveries also recovered

+ last trip 10/94

- 7 Recoveries also

recovered 2 trips

ago 7/94.

Punaluu → FFS  
2 ♀

FFS → Punaluu  
1 ♀  
2 ♂

SUMGRT-6T.GHB

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

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

| Study dates    | Method of capture | Total no. captured | No. newly tagged | No. tag resightings | Total no. tagged to date     | Original and resighting tag dates for turtles resighted at Punaluu                       |
|----------------|-------------------|--------------------|------------------|---------------------|------------------------------|------------------------------------------------------------------------------------------|
| 6/76-9/76      | SC                | 42                 | 37               | 5                   | 37 <sup>a</sup> = MODEL TAGS |                                                                                          |
| 5/7/77         | N                 | 3                  | 3 <sup>b</sup>   | 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 <sup>c</sup>   | 0                   | 31                           |                                                                                          |
| 12/15-12/19/83 | N, SC, SK         | 12                 | 10               | 2 <sup>c</sup>      | 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 <sup>d</sup>  | 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;<br>9/78; 11/83; 1/78 and<br>2/84; 8/78; 12/83; 8/78<br>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 <sup>e</sup>      | 89                           | 2/84; 1/84; 3/84; 2/84                                                                   |



| Study dates    | Method of capture | Total no. captured | No. newly tagged | No. tag resightings | Total no. tagged to date | Original and resighting tag dates for turtles resighted at Punaluu                                                                                                                                      |
|----------------|-------------------|--------------------|------------------|---------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/26-6/29/84   | N, SK             | 13                 | 8                | 5 <sup>d</sup>      | 97                       | 2/84; 2/84; 1/84; 1/78-2/84-3/84; 12/83-1/84-4/84<br>3/87; 3/87                                                                                                                                         |
| 3/23-3/25/87   | N                 | 7                  | 5                | 2                   | 102                      |                                                                                                                                                                                                         |
| 3/21-3/23/88   | N                 | 3                  | 3                | 0                   | 105                      |                                                                                                                                                                                                         |
| 4/10-4/12/89   | SK                | 14                 | 11               | 3 <sup>f</sup>      | 116                      | 12/83; 1/84; 9/78                                                                                                                                                                                       |
| 4/9-4/11/90    | SK                | 12                 | 8                | 4 <sup>g</sup>      | 124                      | 12/83; 1/84; 3/88; 9/78 and 4/89                                                                                                                                                                        |
| 7/18/90        | SK                | 12                 | 5 <sup>h</sup>   | 7                   | 129 <sup>i</sup>         | 4/90; 4/90; 4/89; 2/84; 3/88 and 4/90; 11/83 and 3/84; 1/84 and 4/90                                                                                                                                    |
| 11/27-11/28/90 | BN, SK            | 17                 | 5                | 12 <sup>h</sup>     | 134                      | 4/90 and 7/90; 7/90; 4/90 and 7/90; 4/89; 12/83 and 4/89; 4/90; 4/89; 4/89; 1/84 and 4/90; 4/89; 12/83 and 4/90.                                                                                        |
| 4/23-4/24/91   | BN, SK            | 20                 | 4                | 16                  | 138                      | 7/90 and 11/90; 4/90-7/90-11/90; 4/89 and 11/90; 12/83-4/89-11/90; 4/90 and 11/90; 11/90; 11/90; 12/83-4/90-11/90; 2/84 and 7/90; 4/90; 4/89 and 7/90; 4/90; 9/78 and 3/84; 4/89; 4/89; 11/83-3/84-7/90 |

| Study dates    | Method of capture | Total no. captured | No. newly tagged | No. tag resightings | Total no. tagged to date | Original and resighting tag dates for turtles resighted at Punaluu |
|----------------|-------------------|--------------------|------------------|---------------------|--------------------------|--------------------------------------------------------------------|
| 7/16-7/17/91   | BN, SK            | 15                 | 3                | 12                  | 141                      | --                                                                 |
| 11/12-11/13/91 | SK                | 24                 | 8                | 16 <sup>f</sup>     | 149                      | --                                                                 |
| 4/14-4/15/92   | SK, BN            | 15                 | 4                | 11 <sup>f</sup>     | 152                      |                                                                    |
| 7/14-7/15/92   | SK, BN            | 20                 | 3                | 17 <sup>f</sup>     | 155                      |                                                                    |

N = net; BN = beach net; SK = hand capture while scuba diving; SK - hand capture while skin diving

"Total no. tagged to date" was computed

<sup>a</sup>Monel alloy tags. All other tags used are made from Inconel 625 alloy.

<sup>b</sup>Separately for Monel and Inconel.

<sup>c</sup>Tagged turtle 5008 (8165) resighted 6/19/84 nesting at East Island, French Frigate Shoals.

<sup>d</sup>Tagged turtle 6711-13 resighted 7/9/86 nesting at East Island, French Frigate Shoals.

<sup>e</sup>Includes tagged turtle 7634-37 with four leeches, leech eggs, and likely small tumor in corner of right eye.

<sup>f</sup>Also includes tagged turtle (6182, 6242, 6260) originally tagged nesting at East Island, French Frigate Shoals, 6/82 and 8/82.

<sup>g</sup>Also 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.

<sup>h</sup>Also includes tagged male (6360-61, Y650) originally tagged basking at Tern Island, French Frigate Shoals, 11/28/82.

<sup>i</sup>Includes tagged turtle N388-80, N537 with small tumor in corner of left eye.

<sup>j</sup>N376, N377 not included in total. This turtle, rescued by Jerome Jude early July 1990 off Kona, released at Punaluu 7/17/90. Straight carapace length 19.8 cm.

|                |        |    |    |                 |    |     |
|----------------|--------|----|----|-----------------|----|-----|
| 11/17-11/18/92 | SK, BN | 26 | 10 | 3               | 10 | 165 |
| 4/13-4/14/93   | SK, N  | 23 | 12 | 11              | 11 | 177 |
| 7/13-7/14/93   | SK     | 16 | 2  | 14              | 14 | 179 |
| 11/30-12/1/93  | SK     | 24 | 9  | 15              | 15 | 188 |
| 7/5-7/6/94     | SK     | 27 | 7  | 3               | 3  | 195 |
| 7/5-7/6/94     | SK     | 29 | 7  | 3               | 3  | 198 |
| 10/6-10/7/94   | SK, BN | 26 | 3  | 23 <sup>h</sup> | 23 | 201 |
| 4/20-4/21/95   | SK     | 30 | 3  | 27              | 27 | 204 |

May 3, 1995

MEMORANDUM

To: Michelle Hayes  
From: Leon E. Hallacher *LEH*  
Subject: Turtle Proposal

I spoke with George about your proposal RE turtle surveying around the Lelewi area for your marine science senior thesis. Here are his main suggestions:

1. Swimming transects would be more efficient than measured strip transects and the benefits of being able to sample greater distances out-weigh the loss in accurate density measurements afforded by strip transects.
2. Add a shoreline walk "transect" since that will provide info on turtles feeding in the shallow subtidal. You wouldn't be able to see these on your snorkel transects.
3. He thinks cleaning station information should be factored in as a point of emphasis in the study. If you spot cleaning stations, they should be investigated further to include such information as species doing the cleaning, the number of turtles being cleaned per unit time, size of turtles cleaned, behavior of turtles being cleaned, behavior of cleaners, etc.
4. Before you start, you should contact Bill DeRoy (Nautilus Dive Shop) and ask him about turtle distributions along the Lelewi/Richardson coast (or elsewhere near Hilo). Tell DeRoy that George Balazs suggested that you contact him since he's got such an extensive knowledge of the region.

That covers most of George's suggestions. I'm sure that as this thing evolves, your methods will need to be adjusted. However, I think you're in pretty good shape as far as getting started is concerned.

cc George Balazs, NMFS, Honolulu  
Walter Dudley, Marine Science Chair

*12MA/95  
Turtle in  
Ninole Pond  
(AGAIN)*

[45] From: Shawn Koga 5/12/95 9:09AM (2142 bytes: 34 ln)  
To: George Balazs  
Subject: Sea turtle at Punaluu

----- Forwarded with Changes -----  
From: Eugene Nitta 5/9/95 4:41PM (608 bytes: 10 ln)  
To: Shawn Koga  
Subject: Sea turtle at Punaluu

----- Message Contents -----

This is what happened with this case:  
SK tried calling Florence on 5-10 @ 8:05, no answer.  
SK called @ 8:07 and talked with Janice @ DAR-Hilo. She told me that Pru called yesterday and due to little manpower no one could respond. Pru became upset that no one could help.  
SK called @ 8:35 to Punaluu Resort, phone now busy.  
SK talked with Florence @ 8:42. She'll see if someone can check to see if the turtle is still in the pond then call me back with an update. I told her I talked with DAR.  
SK talked with GHB @ 10:23 who suggested that I contact Larry Katahira.  
SK left message for Larry @ 10:25 to call me back.  
SK talked with Florence @ 10:50 and told her that I'm trying to get a hold of Larry who knows about turtles being stuck in there.  
SK left message for Larry on 5-11 @ 11:00 to call back.  
SK called and gave Florence Larry's number @ 2:25.  
SK received call from Larry @ 2:48 and gave him the info. regarding this case. He said fine and that he thinks it's the same turtle that Chris Bangay saw a couple of weeks ago.

Green turtle stuck in a old fishpond at Punaluu (Big Island) closer to Ninole Cove. Size estimate, but described as large. Over 3 ft. in length. Appeared healthy and uninjured.

Contact from Pru Sillito at Punaluu Resort 928-8301. Home #:928-8928. Ask for Florence tomorrow.

Reported by Mr. Hollands (a guest) 928-8363. He volunteered to assist and guide anyone down to the pool.

PouAwa  
#27

4/20 - 4/21/95

Joy Yoshimura

Jim Cuddy

Drew Harrington

Jennifer Smith

John Holland

Doug Collins

Malik Dudley

Julie Recho

Michelle Clapper

Malia M. Allen

Wendy Gibson

Don Shamp

Alan Hara

Dawn Chastler ☀

Karla J McElmird

Chris Bengay

John Cochran

Michelle Hayes

Patricia Casimano

Huy Tran

Kater Bourdon

Alethea Levy P.O. Box 153 Laupahoehoe, HI 96764

Shannon Oshiro 959-5924

Kalou of Brw 969-7715

need for Senior Thesis  
INTERESTED  
in Scuba Survey  
of turtles  
Keakaha  
Lelewi

572 A Mohouli, HILO  
969-3491  
~~969-32893491~~

BANGAY

Tomors?  
Thank you!

Need - for next  
HONAUWA

+ John Lindelow  
Laura Sasaki  
Roz Kapoza

The Honu Project

G. BALAZS 808-395-6409  
 Petersen Index p.125 -943-1240  
 TRACINGS - p.101-102 (collect)

W H S B L O  
 George H. Balazs  
 992-A Awaawaoon Place  
 Honolulu, Hawaii 96825

14-15 APRIL 92 p.3-26 H91-H204  
 PUNALUU #18  
 (See data pages in previous book) 15 CAPTURE  
 p.81-88 11 RECAPS; 4 NEW

PUNALUU #19 p.103- NARRATIVE  
 DATA pages p.27-49 Night basking  
 green  
 KAMEHAME

20 TOTAL (17 Recaps, 3 new) H910-H917 +N -N

**METRIC**

**LENGTH**

millimeter  
 centimeter  
 decimeter  
 meter  
 decameter  
 hectometer  
 kilometer  
 myriameter

**AREA**

square  
 square  
 are  
 hectare  
 sq. kilo

**WEIGHT**

milligram (mg) 0.015 grains  
 centigram (cg) 0.154 grains  
 decigram (dg) 1.543 grains  
 gram (g) 0.035 ounces  
 decagram (Dg) 0.353 ounces  
 hectogram (hg) 3.527 ounces  
 kilogram (kg) 2.2046 pounds  
 quintal 220.46 pounds  
 metric ton 1.1 tons

**EQUIVALENT**

0.61 cubic inches  
 0.353 cubic feet  
 0.31 cubic yards  
 0.10 cubic yards  
 0.06 cubic inches  
 0.6 cubic inches  
 6.1 cubic inches  
 0.02 cubic inches  
 0.35 cubic feet  
 0.53 cubic feet  
 0.31 cubic yards

17-18 AUGUST 92 PUNALUU - ALGAE/TURTLE EXCLUSION STUDY

p.108-110 SCUBA LEILEIWI, HILO BAY (NO CAPTURES)

4 SEPT 92 1-40'4 min. ALGAE/TURTLE EXCLUSION STUDY + 2 SCUBA PUNALUU  
 1-40'30 min. (NO CAPTURES)

p.110-113 **BOORUM & PEASE B&P** 17-18 NOV. 92 p.154-179  
 PUNALUU #20 TAGS USED =

Composition Book • 9 1/4 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         |

**ESSELTE**

Esselte Pendaflex Corporation, Garden City, NY 11530  
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 Esselte Pendaflex Corporation

TAGS USED

258 - 293

PUNALUU #21 13-14 APRIL 93 p.80-100, 8-11.  
 23 TOTAL (11 Recaps, 12 new) NARRATIVE  
 p.118-124

liter (l) 0.908 quarts  
 decaliter (Dl) 1.14 pecks  
 hectoliter (h) 2.84 bushels

**CAPACITY, LIQUID**

milliliter 0.27 fluidrams  
 centiliter 0.338 fluidounces  
 deciliter 0.21 pints  
 liter 1.057 quarts  
 decaliter 2.64 gallons

- Kamehame
- Apua
- Halape
- Kawa
- Hansson Rivera (Pohue)
- Punaluu
- NINOLE
- Kihai
- Halawa
- Camikae

NMFS, HONOLULU LAB  
 Marine Turtle Research  
 2570 Dole Street  
 Honolulu, HI 96822-2396



Mauna Kea Science Reserve  
of Hawai'i Observatory  
astronomical observatory complex

**MAUNA KEA**  
x 13,796

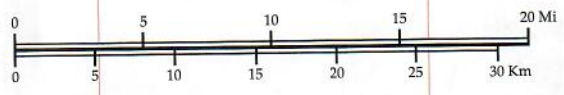
Elison Onizuka  
Astronomy Complex

**AWAI'I VOLCANOES**

**NATIONAL PARK**

**Hilo**

© 2000



Historical Information for Turtle Tag 445249674E

George H. Balazs  
 Marine Turtle Research Program  
 NOAA Fisheries Service  
 Pacific Islands Fisheries Science Center  
 2570 Dole Street  
 Honolulu, Hawaii 96822-2396  
 gbalazs@honiab.nmfs.hawaii.edu

*Two Fast Growers!*

Tag Information:

| Tag Number | Date      | Tag Type | Tag Position |
|------------|-----------|----------|--------------|
| 445249674E | 3/10/2004 | PIT      | LHF          |
| 44525C7049 | 3/10/2004 | PIT      | RHF          |
| 4602046138 | 11/7/2005 | PIT      | RHF          |
| 4607621C66 | 11/7/2005 | PIT      | LHF          |

Since Last Encounter

| Date      | Type of Encounter | Location            | Tumor Rank | Nesting Act | Straight Carapace | Since Last Encounter |      |                    | Overall        |      |                    |     |
|-----------|-------------------|---------------------|------------|-------------|-------------------|----------------------|------|--------------------|----------------|------|--------------------|-----|
|           |                   |                     |            |             |                   | Interval Month       | Year | Growth-Rates cm/mo | Interval Month | Year | Growth-Rates cm/mo |     |
| 3/10/2004 | Near Shore        | Hawaii, Punaluu Bay | 0          | -           | 44.7              | ---                  | ---  | ---                | ---            | ---  | ---                | --- |
| 11/7/2005 | Near Shore        | Hawaii, Punaluu Bay | 0          | -           | 50.3              | 19.0                 | 1.6  | 0.3                | 19.0           | 1.6  | 0.3                | 3.5 |

Historical Information for Turtle Tag 424F0A6223

George H. Balazs  
 Marine Turtle Research Program  
 NOAA Fisheries Service  
 Pacific Islands Fisheries Science Center  
 2570 Dole Street  
 Honolulu, Hawaii 96822-2396  
 gbalazs@hnlab.nmfs.hawaii.edu

Tag Information:

| Tag Number | Date       | Tag Type | Tag Position |
|------------|------------|----------|--------------|
| 424F0A6223 | 10/30/2002 | PIT      | LHF          |
| 425009524E | 10/30/2002 | PIT      | RHF          |

| Date       | Type of Encounter | Location            | TumorRank | NestingAct | Straight Carapace | Since Last Encounter |      |                       | Overall           |      |                       |
|------------|-------------------|---------------------|-----------|------------|-------------------|----------------------|------|-----------------------|-------------------|------|-----------------------|
|            |                   |                     |           |            |                   | Interval<br>Month    | Year | Growth-Rates<br>cm/mo | Interval<br>Month | Year | Growth-Rates<br>cm/mo |
| 10/30/2002 | Near Shore        | Hawaii, Punaluu Bay | 0         | -          | 44.0              | ---                  | ---  | ---                   | ---               | ---  | ---                   |
| 11/7/2005  | Near Shore        | Hawaii, Punaluu Bay | 0         | -          | 57.1              | 36.0                 | 3.0  | 0.4                   | 36.0              | 3.0  | 0.4                   |



No. 09-9132  
Coll. Margin 60 Pgs



0 72156 99133 4