

DATA
LOGGER = P. 23,
180, 183-190

HILTON Waikoloa P. 180-81, 186-87
9/97 Mead Kiholo water
TEMPERATURE 1998

COMPOSITION

GEORGE BALAZS
(808) 395-6409

WAIKOLOA HILTON

100 sheets • 200 pages
9³/₄ x 7¹/₂ in / 24.7 x 19.0 cm
wide ruled • 09918



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KIHOLO, BAKO

GEORGE
BALAZS / HPA
1997 - 1998

3 of 3

ANTHONY LAB
line 11
2007
in situ.

128
Date: Thu, 22 Jan 1998 07:44:09 -1000
From: Marc Rice <mrice@hpa.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Kiholo Trip

George,

Welcome back. I hope the trip went well and that you had fun. I did not want to add to your undoubtedly overflowing in box so I have not sent any messages. Thought I would bring you up to date.

We are off to Kiholo this morning at 1030 hours. I have faxed the DOCARE document to the numbers you indicated and received confirmed fax messages. I also called Shawn on Tuesday when they were faxed.

We have approximately 10 students going with George, Sandi, Laura and me. We will spend the afternoon getting the REMOTE ACOUNTICAL MONITORING DEVICE

set up and functioning-- We field tested it last Wednesday and it looks like it will function properly-- Then we will capture animals tonight and select two animals for sonic and MK5 attachment. Unless I feel really energetic, we will hold those two animals overnight and tag them in the daylight. We will set up camp on the Hind side, but we will set up the tagging area over on the peninsula. I will be out of the water with a group of students and we will work up the animals as they are brought in individually in tubes. When we get an animal that looks to be appropriate for sonic tags we will look up its history and, if it passes muster, we will hold it in the whaler. We will probably need to store both animals in the whaler overnight, but none of the other animals will be kept any longer than is necessary to take the vital information and be released-- we will mark the shell with a small white dot just to avoid recapture. I hope this scenario meets with your approval.

I will try have the cellular with me most of the time, but it may be hard sometimes.... Call if you have time.

Aloha,
Marc

Date: Fri, 23 Jan 1998 22:15:52 -1000
From: mrice@hpa.edu
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Kiholo Trip

George,

Wow! quite a bit of traffic on the TCD's. Interesting and thanks for keeping me up to date.

We returned around 1445 today. The two TDR turtles were released at ~1100 and 1200 hours this morning. I will sent the exact details in the next few days. We captured and worked up 16 turtles total. I will forward the data sheets asap. The trip was relatively easy and the weather cooperated. However, I was pretty much overwhelmed by it all without you being there. There were probably too many things going on, but I think we got most everything done in a reasonably efficient manner.

The remote acoustical monitoring equipment was depolyed and we will see how well it records our two new sonic critters. We will try and get down there late next week to pull the PC card and look over the first week of data to see what we have. I suspect we will have to tweek the system to make the whole thing work properly.

One note of interest- I wanted to catch one animals prior to the night snorkel to demonstrate what we would be doing during the workup to the students. Sandi Watson went out and got a small animal that was seen feeding over by the Makaha on the north side of the bay. When she and the students brought the animal back, we found that it was one of the Hawksbills! It seemed healthy and robust. First time I have known of one of the hawksbills feeding in the shallows over there where we always see the greens.

I got home this evening around 1700 tonight and got a call from a colleague that they needed a referee for a basketball game.. So, I got home a couple of hours ago and I am in need of some sleep at this time. I will try and get my act together over the next couple of days and get everything off to you...

I will be in HNL next Friday for the day- If you have time, perhaps we can meet for lunch or coffee...

Aloha,
Marc

Reduce

21-22 JAN 98

Kiholo

Hawksbill

129

| | | |
|------------------------------------|------------------------|---|
| CAPTURE DATE: 1/22/98 | LOCATION Kiholo Bay | METHOD OF CAPTURE Hand capture by Watson Hawksbill |
| PERSON RECORDING DATA: J. Worth | | |

OLD TAGS:

| |
|-----------------------|
| RFL: R474 |
| LFL: R473 |
| RHL: B943 |
| PITT TAG # 2210115E01 |

TUMOR SCORE: 0

PITT TAG BAR CODE:

NEW TAGS:

| |
|-----|
| RFL |
| LFL |
| |
| |

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH:

NOTCH LENGTH:

CURVED CARAPACE LENGTH:

HEAD WIDTH:

WIDTH:

DB: VB:

WIDTH:

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT:

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

Hawksbill - hand captured by J. Watson in area north of Awaia - 1400hrs 1/22/98

MR. RICE ONLY

130

2 Rive only

| | | |
|------------------------------------|----------------------------|---|
| CAPTURE DATE: 1/22/98 | LOCATION: Kiholo Kageoo | METHOD OF CAPTURE: Hard capture night SNORKEL |
| PERSON RECORDING DATA: E. Davis | | |

OLD TAGS:

LEL Q282
RFL Q281

PITT TAG BAR CODE

TUMOR SCORE

0

PIT 4100651616



NEW TAGS

RFL
LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH: 65.3

WIDTH: 43.1

NOTCH LENGTH: 55.1

DB: L.O. VB:

CURVED CARAPACE LENGTH: 59.1

WIDTH: 50

HEAD WIDTH:

PPS: YES NO

SEX: MALE FEMALE UNDETERM.

TAIL LENGTH: TOTAL

CLOACAL

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH: 44.4

WEIGHT: 78

DESCRIPTIVE REMARKS:

3 Riceby

131

| | | |
|------------------------------------|----------------------------|---|
| CAPTURE DATE: 1-22-98 | LOCATION: Kiholo Lagoon | METHOD OF CAPTURE: Hand Capture Lagoon |
| PERSON RECORDING DATA: E. Davis | | |

OLD TAGS:

TUMOR SCORE: 0

PITT TAG BAR CODE:

NEW TAGS:

PITT: 41503A4146


OTHER NEW TAGS:

RRL:
 LFL:

STRAIGHT CARAPACE LENGTH: 40.1

NOTCH LENGTH: 39.8

CURVED CARAPACE LENGTH: 42

HEAD WIDTH:

WIDTH: 33.3

DE: L.O. VB: L.O.

WIDTH: 38.8

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: 32.6

WEIGHT: 19

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

132

4 Price only

| | | |
|------------------------------------|----------------------------|---|
| CAPTURE DATE: 1-22-98 | LOCATION: Kiholo Lagoon | METHOD OF CAPTURE: Hand capture Lagoon |
| PERSON RECORDING DATA: E. Davis | | |

OLD TAGS:

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PITT TAG BARCODE

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|--|

TUMOR SCORE

| |
|---|
| 0 |
|---|

PIT 41504C2474



NEW TAGS

| | |
|-----|--|
| RFL | |
| LFL | |

OTHER NEW TAGS:

| |
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STRAIGHT CARAPACE LENGTH:

| |
|------|
| 36.9 |
|------|

WIDTH:

| |
|------|
| 29.5 |
|------|

NOTCH LENGTH:

| |
|------|
| 36.5 |
|------|

DB:

| |
|------|
| L.O. |
|------|

VB:

| |
|--|
| |
|--|

CURVED CARAPACE LENGTH

| |
|------|
| 38.8 |
|------|

WIDTH:

| |
|------|
| 34.5 |
|------|

HEAD WIDTH:

| |
|--|
| |
|--|

PPS: YES NO

SEX: MALE FEMALE UNDETERM

TAIL LENGTH:

| |
|-------|
| TOTAL |
|-------|

CLOACAL

| |
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| |
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RIGHT FRONT FLIPPER WIDTH:

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| |
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SAMPLES COLLECTED:

PLASTRON LENGTH:

| |
|----|
| 30 |
|----|

WEIGHT:

| |
|----|
| 15 |
|----|

DESCRIPTIVE REMARKS:

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5 Rice only

| | | |
|---------------------------------|---------------------------|--|
| CAPTURE DATE: 1-22-98 | LOCATION Kiholo Lagoon | METHOD OF CAPTURE Hand capture - Lagoon |
| PERSON RECORDING DATA: E. Davis | | |

OLD TAGS

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PITT TAG BAR CODE

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NEW TAGS

| | |
|-----|--|
| RFL | |
| LFL | |

OTHER NEW TAGS:

| |
|--|
| |
| |

TUM
S
0

PITT TAG
4100643D50



STRAIGHT CARAPACE LENGTH

43.9

WIDTH: 35.3

NOTCH LENGTH:

43.8

DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH

46.3

WIDTH: 41.4

HEAD WIDTH:

MALE FEMALE UNDETERMINED

PPS: YES NO

SEX:

TAIL LENGTH:

TOTAL

CLOACAL

RIGHT FRONT FLAPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

35.7

WEIGHT:

27

| |
|--|
| |
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| |

134

6 Rice only

| | | |
|------------------------------------|---------------------------|--|
| CAPTURE DATE: 1-22-98 | LOCATION Kiholo Lagoon | METHOD OF CAPTURE Hand Capture - Lagoon |
| PERSON RECORDING DATA: E. Davis | | |

OLD TAGS:

| | |
|------|-----|
| J603 | RFL |
| J604 | LFL |
| J605 | LH |

PITT TAG BARCODE

NEW TAGS

TUMOR SCORE

0

4100797E1D



OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH: 47.5

WIDTH: 37.5

NOTCH LENGTH: 46.7

DB: L.O. VB:

CURVED CARAPACE LENGTH: 50.0

WIDTH: 44.0

HEAD WIDTH:

PPS: YES NO

SEX: MALE FEMALE UNDETERMINE

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: 38.3

WEIGHT: 35

DESCRIPTIVE REMARKS:

SAMPLES COLLECTED:

135

7

Rice only

| | | |
|------------------------------------|---------------------------|--|
| CAPTURE DATE: 1-22-98 | LOCATION Kiholo Lagoon | METHOD OF CAPTURE Hand Capture - Lagoon |
| PERSON RECORDING DATA: Erika Davis | | |

OLD TAGS:

K401 (LFL)
K402 (RFL)
K403 (LH)

PIT TAG BARCODE

| |
|--|
| |
|--|

TUMOR SCORE

| |
|---|
| 0 |
|---|

NEW TAGS

| | |
|-----|--|
| RFL | |
| LFL | |
| | |
| | |

PI 4150620D39


OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH

| |
|------|
| 47.1 |
|------|

WIDTH:

| |
|------|
| 36.3 |
|------|

NOTCH LENGTH:

| |
|------|
| 47.0 |
|------|

DB:

| | | |
|------|-----|------|
| L.O. | VB: | L.O. |
|------|-----|------|

CURVED CARAPACE LENGTH

| |
|------|
| 49.7 |
|------|

WIDTH:

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|------|
| 42.8 |
|------|

HEAD WIDTH:

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FPS: YES NO

SEX: MALE FEMALE UNDETERMINED

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TAIL LENGTH:

TOTAL

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CLOACAL

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RIGHT FRONT FLIPPER WIDTH:

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| |
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SAMPLES COLLECTED:

PLASTRON LENGTH:

| |
|------|
| 38.6 |
|------|

WEIGHT:

| |
|----|
| 35 |
|----|

DESCRIPTIVE REMARKS:

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8

136

live only


| | | |
|--|-----------------------------------|--|
| CAPTURE DATE: 1/22/98 | LOCATION: Kiholo Lagoon | METHOD OF CAPTURE: Hand capture - lagoon |
| PERSON RECORDING DATA: Erika Davis | | |

OLD TAGS:

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TUMOR SCORE:
0

4150533812



PIT TAG BARCODE

NEW TAGS

OTHER NEW TAGS:

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| |

RFL

| |
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| |
| |

LFL

| |
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| |
| |

STRAIGHT CARAPACE LENGTH: **50.8**

NOTCH LENGTH: **50.4**

CURVED CARAPACE LENGTH: **53.6**

HEAD WIDTH:

| |
|--|
| |
|--|

WIDTH: **40.0**

DE: **L.O.** VB: **L.O.**

WIDTH: **46.2**

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

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TAIL LENGTH: TOTAL

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 CLOACAL

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RIGHT FRONT FLIPPER WIDTH:

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|--|

PLASTRON LENGTH: **41**

WEIGHT: **39**

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

Mk5 Microprocessor-controlled Time-Depth Recorder, version 5.3
 Recorder number 97-244. Your identifier =
 Time is 08:26:29.29
 Date is 23rd January 1998

Currently defined sampling protocols and conditions are:

- Protocol 10- Sample rate: Depth (m) every 1*60 second(s)
- ≥ Temperature (C) every 3*60 second(s)
- ≥ Log(light) every 10*60 second(s)
- Δ Condition: Wet, dry timed
- ' Delay Count = 1

Handwritten scribble

Rice only

137

9.

1-22-98 Kihalo Lagoon
PERSON RECORDING DATA: Erica Davis

Hand Capture Lagoon

OLD TAGS:

| | |
|------------|-------|
| B983 | (LFL) |
| B984 | (RFL) |
| B985 | (LH) |
| B986 | (RH) |
| PITT TAG # | |

PITT TAG BARCODE (RFL)

415035042E

TUMOR SCORE
0

NEW TAGS

RFL: SON248
LFL: TDR96370

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH: 64.4

WIDTH: 50

NOTCH LENGTH: 64.1

DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 69.4

WIDTH: 62.0

HEAD WIDTH:

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: 52.0

WEIGHT: 81

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

Shawn see me

TDR-SONK attachment
Finished at 1040 hrs.
Attached left side 3rd lateral scute
SONK #248 - checked & working
~~1028~~ release - looks fine -
TDR- 96-370
PIT- placed in RFL!

138

1- *Rice only*

| | | |
|---------------------------------|--------------------|---|
| CAPTURE DATE: 1/22/98 | LOCATION Kiholo | METHOD OF CAPTURE Hand capture - Lagoon right |
| PERSON RECORDING DATA: E. Davis | | |

OLD TAGS:

| | |
|------------|-------|
| V13 | (LFL) |
| V14 | (RFI) |
| V684 | RH |
| SON58 | |
| PITT TAG # | |
| TDR | 97244 |

PITT TAG BAR CODE

41504A7E6A

NEW TAGS

| | |
|-----|--|
| RFL | |
| LFL | |
| | |
| | |

TUMOR SCORE

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH:

NOTCH LENGTH:

CURVED CARAPACE LENGTH:

HEAD WIDTH:

WIDTH:

DB: VB:

WIDTH:

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT:

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

Shawn see me

97244
 (TDR) SONIC TAG ATTACHED -
 Finished at 1040
 Attached right side on 3rd lateral scute ←
 Sonic tag inactive after installation, replaced
 with tag 5-8 - working!
 Released at 1145 - went out of shore area, hung
 around the camp site for awhile →

12 Rice only

| | | |
|---------------------------------------|----------------------------|---|
| CAPTURE DATE: 1-22-98 | LOCATION: Kiholo Lagoon | METHOD OF CAPTURE: Hand Capture Lagoon |
| PERSON RECORDING DATA: Erika Davis | | |

OLD TAGS:

| |
|--|
| |
| |
| |

TUMOR SCORE:
0

PITT TAG BARCODE

NEW TAGS

OTHER NEW TAGS:

RFL

LFL

4150341E36



STRAIGHT CARAPACE LENGTH: 46.2

NOTCH LENGTH: 45.8

CURVED CARAPACE LENGTH: 48.8

HEAD WIDTH:

WIDTH: 36.0

DB: L.O. VB: L.C.

WIDTH: 42.0

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

SEX:

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: 37.5

WEIGHT: 28

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

140

Rice only

13

| | | |
|-----------------------------------|----------------------------|---|
| CAPTURE DATE: 1-22-98 | LOCATION: Kiholo Lagoon | METHOD OF CAPTURE: Hand Capture - Lagoon |
| PERSON RECORDING DATA: E Davis | | |

OLD TAGS:

| |
|--|
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| |
| |

PITT TAG BAR CODE

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| |
|--|

TUMOR SCORE

| |
|---|
| 0 |
|---|

NEW TAGS

| | |
|-----|--|
| RFL | |
| LFL | |

OTHER NEW TAGS:

| |
|--|
| |
| |

STRAIGHT CARAPACE LENGTH

| |
|------|
| 56.7 |
|------|

WIDTH:

| |
|------|
| 44.4 |
|------|

NOTCH LENGTH:

| |
|------|
| 56.6 |
|------|

DE:

| |
|------|
| L.O. |
|------|

VB:

| |
|------|
| L.O. |
|------|

CURVED CARAPACE LENGTH

| |
|------|
| 59.3 |
|------|

WIDTH:

| |
|------|
| 52.4 |
|------|

HEAD WIDTH:

| |
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| |
|--|

PPS:

| | |
|-------------------------------------|--------------------------|
| YES | NO |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

MALE FEMALE UNDETERMINED

SEX:

| | | |
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TAIL LENGTH:

TOTAL

| |
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CLOACAL

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RIGHT FRONT FLIPPER WIDTH:

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| |
|--|

SAMPLES COLLECTED:

PLASTRON LENGTH:

| |
|------|
| 46.6 |
|------|

WEIGHT:

| |
|------|
| 59.0 |
|------|

DESCRIPTIVE REMARKS:

| |
|--|
| |
|--|

141

17 *Rice only*
CAPTURE DATE: LOCATION: METHOD OF CAPTURE:

1-22-98 Kiholo Lagoon Hand Capture Lagoon
PERSON RECORDING DATA: E. Davies

OLD TAGS:

Empty boxes for old tags

PITT TAG BAR CODE

Empty box for Pitt tag barcode

TUMOR SCORE

0

41504B4766



NEW TAGS

RFL

Empty box for RFL

LFL

Empty box for LFL

OTHER NEW TAGS:

Empty boxes for other new tags

STRAIGHT CARAPACE LENGTH

65.7

WIDTH:

51.9

NOTCH LENGTH:

65.6

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH

69.7

WIDTH:

62.3

HEAD WIDTH:

Empty box

PPS:

YES NO

MALE FEMALE UNDETERMINED

SEX:

Empty boxes for sex

TAIL LENGTH:

TOTAL

Empty box

CLOACAL

Empty box

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

Empty box

PLASTRON LENGTH:

52.6

WEIGHT:

85

DESCRIPTIVE REMARKS:

*RFL - healed notch
LFL - healed notch*

11 **142** *River only*
 CAPTURE DATE: **1-22-98** LOCATION: **Kiholo Lagoon** METHOD OF CAPTURE: **Hand-Lagoon Capture**
 PERSON RECORDING DATA: **Erika Davis**

OLD TAGS:

R545 (RFL)
K641 (LH)
R53 (LFL)
 PITT TAG #

PITT TAG BAR CODE

TUMOR SCORE: **0**

NEW TAGS: RFL
 LFL
 OTHER NEW TAGS:

RIGHT CARAPACE LENGTH: **50.1**

WIDTH: **39.9**

STITCH LENGTH: **49.9**

DB: **L.O.** VB: **L.O.**

REVISED CARAPACE LENGTH: **53.4**

WIDTH: **45.6**

HEAD WIDTH:

PPS: YES NO

SEX: MALE FEMALE UNDETERMINED

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH: **40.6**

WEIGHT: **36**

DESCRIPTIVE REMARKS:

143

Five only

10

F22-78 Niho 10 Lagoon
PERSON RECORDING DATA: Erika Davis

Hand capture Lagoon

OLD TAGS:

~~K344~~ 18p/LH

PITT TAG
BARCODE

[Empty box]

TUMOR
SCORE

0

NEW TAGS

RFL

LFL

4150517664

OTHER
NEW
TAGS:

[Empty box]

STRAIGHT CARAPACE LENGTH

54.3

WIDTH:

41.2

NOTCH LENGTH:

53.8

DB:

L.O.

VB:

L.

CURVED CARAPACE LENGTH

58.11

WIDTH:

50.6

HEAD WIDTH:

[Empty box]

PPS: YES NO

SEX: MALE FEMALE UNDETERMINE

[Empty box]

TAIL LENGTH: TOTAL

[Empty box]

CLOACAL

[Empty box]

RIGHT FRONT FLIPPER WIDTH:

[Empty box]

SAMPLES COLLECTED:

PLASTRON LENGTH:

43.6

WEIGHT:

46

DESCRIPTIVE REMARKS:

RFL - healed Notch
LFL - healed notch

144

CAPTURE DATE: 2/8/98 LOCATION: Kiholo - METHOD OF CAPTURE: HAND
 PERSON RECORDING DATA: Laura Rice/WR hand/net capture off Hand Point - 1520- HIND

Rice only

OLD TAGS: RFLY107
 LFL Y108
 RHL N731
 LHL Q602
 PIT TAG # 22DF757E1R

NEW TAGS: 22DF754E1R
 Entry 159

FFL:
 LFL:
 OTHER NEW TAGS:
 PIT TAG ENCASED:
 NEW TAGS:
 OTHER NEW TAGS:

TUMOR SCORE
 0

STRAIGHT CARAPACE LENGTH: 66.4

NOTCH LENGTH: 66.1

CURVED CARAPACE LENGTH: 71.1

HEAD WIDTH:

PPS: YES NO

WIDTH: 51

DB: L.O. VB: L.O.

WIDTH: 64.3

SEX: MALE FEMALE UNDETERMINED

TAIL LENGTH: TOTAL CLOACAL

RIGHT FRONT FLAPPER WIDTH:

PLASTRON LENGTH: 53.2

WEIGHT: 88

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

TDR tag ground off to inner workings. Will remove assembly & return turtle w/o tag assembly!
 Tag was removed using the dental (12v) tool & the rest of the fiberglass was left on the shell.
 We released the animal at 1615 hours.

NO SONIC?

1923 - Download attempted with TDR -
 TDR is very eroded & there is metal showing!
 Download is taking forever - 1:50 per day
 1st Dnld - 1:54
 TDR # 96364 - Sonic Tag 447? yes!



2-2-98
Date: Mon, 2 Feb 1998 18:57:15 -1000
From: Marc Rice <mrice@hpa.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Help at Midway (fwd)

DeJure

145
JH

George,

Just wanted to let you know that I made it down to Kiholo on Sunday and checked the REMOTE SENSING DEVICE out. In spite of the very heavy surf, everything was in good shape. There are a few glitches in the recording program, but I think that we are working them out. I had to pull the computer off to bring it back up for some more formatting, but I hope to have it back in action on Wednesday or Thursday.

I did hear both animals - 58 and 248 through the headset while I was down there.

Aloha,
Marc

Marc R. Rice
Assistant Headmaster
Leader, Information Technology Group
Director, Cooperative Sea Turtle Research Program
Hawaii Preparatory Academy
65-1692 Kohala Mt. Road
Kamuela, Hawaii 96743
phone: 808 881 4004
fax: 808 881 4003

George,

A note about our expedition to Kiholo.

2/9/98 Monday

I was unable to spend much time down there on Saturday but did get down around 1500 hours for a quick survey. Was able to observe one animal with TDR feeding in area right by Hind campsite. No sonic received.

Laura and I went down there on Sunday at 1000 hours and observed/searched the bay and lagoon until 1445, at which time we observed the same turtle feeding. We were able to capture the turtle after about 40 minutes of observation. It was netted within 3 meters of shore at 1520 hours. The tag was severely damaged and we were out of time so I removed the whole tag assembly and did not replace it. The turtle was released at 1615 hours. The animal looked very healthy and robust. The measurements that we took are inclosed.

Back at home, I was actually able to retrieve the data from the TDR although when you see it you probably won't believe that was possible. These tags are really tough little things.

Thanks for allowing us to go down and work over the weekend. It really made things easier for me from a scheduling standpoint.

The remote sensing apparatus seems to be working and we hope to get some data to look at sometime this week.

Hope your trip went well.
Best,
Marc

146

Kaloko
J486

Date: Fri, 20 Feb 1998 22:09:54 -1000
From: Dive Makai Charters <dmakai@comptime.com>
To: Marc Rice <mrice@hpa.edu>, Balazs George <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Turtles- What Else!!

[The following text is in the "ISO-8859-1" character set]
[Your display is set for the "US-ASCII" character set]
[Some characters may be displayed incorrectly]

Hi, George & Marc:

There's good news- some REALLY good news! & some disturbing news.

The good- Old friend J486 at Turtles on the 16th- not by his/her rock though.

Today, 2/20- a baby HAWKSBILL in the cove just north of Keahole Pt. I wasn't close enough to determine that it was a Hawks, but Kendra, my daughter, was- & I definitely trust her eyes- better than mine! Never, never seen one in that area.

The disturbing news- a client on the boat today went out with Hawaiian Divers (the present outfit in King Kam Hotel) . They have a pretty bad rep as it is. Client said divemaster/captain left the boat unattended, took them down at turtle, grabbed a turtle & pinned it forcefully to the bottom & held it there. For whatever unearthly reason in 1998 I have no idea. Do you have any way to run a sting, of sorts? Should I approach the owner & talk with him. Awaiting your advice.

It's the first abuse I've heard of in that dive site, which has become just such a special place on earth. I've seen people who simply can't resist reach out & scratch a turtle who's literally banging them on the head- I reprimand, but can't call that abuse. This was outright forceful abuse.

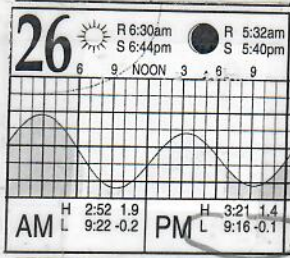
Happy about the baby Hawks- that's incredible!!

Warm regards,
Lisa

Aloha,
Tom Shockley & Lisa Choquette
Dive Makai Charters-(808)-329-2025 (ph/FAX)
dmakai@divemakai.com

Puako
#21

MARCH 98



Need
- Ponabou &
Puako DATA
sheets (blank)
for T. Wood

Thursday
3/26/98 flight 108

Low 9:16 AM

Depart 5:25 AM : Hawaiian Air
3/26 Depart KONA 4:40pm Fl. 387

Blank lined page with faint text and a grid pattern, likely a data collection sheet or form.

149 (7)

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Puako 3/26/98 HAND SCUBA

PERSON RECORDING DATA: Allison Phillips

OLD TAGS:

Empty boxes for old tags and tumor score.

NEW TAGS: RFL

LFL

407D504315



TUMOR SCORE

0

OTHER NEW TAGS:

Empty boxes for other new tags.

STRAIGHT CARAPACE-LENGTH:

37.0

WIDTH:

31.8

NOTCH LENGTH:

36.7

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

39

WIDTH:

36

HEAD WIDTH:

6.0

SEX: MALE, FEMALE OR UNDETERMINED

Empty box for sex.

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T

8

C

5.5

RIGHT FRONT FLIPPER WIDTH:

Empty box for flipper width.

SAMPLES COLLECTED:

PLASTRON LENGTH:

27.9

WEIGHT:

15 lbs.

DESCRIPTIVE REMARKS:

0.5 Lig

2

150

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|---|---------|---------------|
| PUAKO | 3/26/98 | HAND SCUBA |
| PERSON RECORDING DATA: ALLISON PHILLIPS | | |

OLD TAGS:

| |
|--|
| |
| |
| |
| |

TUMOR SCORE


0

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

407D22383D



STRAIGHT CARAPACE-LENGTH: 50.9

WIDTH: 41.5

NOTCH LENGTH: 50.2

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH: 55.0

WIDTH: 48.5

HEAD WIDTH: 7.8

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 11 C 8

RIGHT FRONT FLIPPER WIDTH: []

SAMPLES COLLECTED: []

PLASTRON LENGTH: 40.3

WEIGHT: 41

DESCRIPTIVE REMARKS: 2.3 LIQ 9cc BLOOD FOR T. WORK

SEA TURTLE TAGGING FORM

151

3

CAPTURE DATE, LOCATION AND METHOD:

PUAKO 3/26/98 HAND SCUBA

PERSON RECORDING DATA: ALLISON PHILLIPS

OLD TAGS:

1F274C1757

NEW TAGS: RFL

[]

TUMOR SCORE

K315 + 2 other tags

LFL

[]

0

NOT read

OTHER NEW TAGS:

[]

STRAIGHT CARAPACE-LENGTH:

59.3

WIDTH:

45.5

NOTCH LENGTH:

59.0

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

63

WIDTH:

53.5

HEAD WIDTH:

8.8

SEX: MALE, FEMALE OR UNDETERMINED

[]

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T

13

C

9.5

RIGHT FRONT FLIPPER WIDTH:

[]

SAMPLES COLLECTED:

PLASTRON LENGTH:

46.2

[]

WEIGHT:

55

[]

[]

DESCRIPTIVE REMARKS:

3⁰ L1Q

9CC BLOOD FOR T.WORK

4 152

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|--|---------|-------|
| PUAKO | 3/26/98 | HAND |
| PERSON RECORDING DATA: ALISON PHILLIPS | | SCUBA |

OLD TAGS:

| |
|-------------|
| IF 2745294C |
| K323 |
| K324 |
| |

NEW TAGS: RFL

| |
|-------------|
| IF 2745294C |
| |

TUMOR SCORE

0

LFL

OTHER NEW TAGS:

| |
|--|
| |
| |

STRAIGHT CARAPACE-LENGTH:

57.2

WIDTH:

44.5

NOTCH LENGTH:

56.3

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

ERoded gap in notch

61.0

WIDTH:

52.5

HEAD WIDTH:

8.9

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T 14.5

C

10.0

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

44.1

WEIGHT:

52.0

Bleeding attempted but none obtained.

DESCRIPTIVE REMARKS:

3.0L1Q obtained.

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

(5)

| | | |
|---|---------|-------|
| PUAKO | 3126198 | HAND |
| PERSON RECORDING DATA: ALLISON PHILLIPS | | SCUBA |

OLD TAGS:

| |
|------------------------------|
| 7F7D227D3E |
| R836 + 2 other tags not read |
| K319 |
| |

NEW TAGS: RFL

| |
|--|
| |
| |

LFL

TUMOR SCORE

D

OTHER NEW TAGS:

| |
|--|
| |
| |

STRAIGHT CARAPACE-LENGTH:

58.4

WIDTH:

45.7

NOTCH LENGTH:

58.4

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

62.5

WIDTH:

55.0

HEAD WIDTH:

8.8

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T 15.5

C

11.8

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

46.1

WEIGHT:

58.0

DESCRIPTIVE REMARKS:

| | |
|---------|-----------------|
| 3.0 LIQ | 9CC BLOOD FORTW |
|---------|-----------------|

154

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|---|---------|---------------|
| PUAKO | 3/26/96 | HAND SCUBA |
| PERSON RECORDING DATA: ALLISON PHILLIPS | | |

| | | | |
|-------------|------------|-----------------|--|
| OLD TAGS: | 413C7E677A | NEW TAGS: RFL | |
| | Q M 878 | LFL | |
| TUMOR SCORE | Q 879 | OTHER NEW TAGS: | |
| 0 | Q 880 | | |

STRAIGHT CARAPACE-LENGTH: 52.6 WIDTH: 52.4

NOTCH LENGTH: 48.5 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 56.0 WIDTH: 41.35

HEAD WIDTH: 7.6 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 12.0 C 9.0

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED

PLASTRON LENGTH: 41.3 9cc BLOOD FOR TW

WEIGHT: 43.0 2.341g

DESCRIPTIVE REMARKS: AVISUAL LEFT EYE 9cc BLOOD FOR TW

SEA TURTLE TAGGING FORM

(7)

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|---|---------|-------|
| PUAKO | 3/26/98 | HAND |
| PERSON RECORDING DATA: ALLISON PHILLIPS | | SCUBA |

| | | | |
|-------------|------------|-----------------|--|
| OLD TAGS: | 4104125C24 | NEW TAGS: RFL | |
| TUMOR SCORE | Q574 | LFL | |
| | Q573 | OTHER NEW TAGS: | |
| | | | |

STRAIGHT CARAPACE-LENGTH: 53.7 WIDTH: 42.7

NOTCH LENGTH: 53.4 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 57.0 WIDTH: 50.0

HEAD WIDTH: 8.8

PPS: YES OR NO OR NE Y SEX: MALE, FEMALE OR UNDETERMINED

TAIL LENGTH: T 12.0 C 9.0

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH: 42.7

WEIGHT: 45

DESCRIPTIVE REMARKS: 2.3L1Q 9CC BLOOD FOR TWC

78 156

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|---|---------|---------------|
| PUAKO | 3/26/98 | HAND SCUBA |
| PERSON RECORDING DATA: ALLISON PHILLIPS | | |

OLD TAGS:

| |
|--|
| |
| |
| |
| |

NEW TAGS: RFL



LFL

TUMOR SCORE

0

OTHER NEW TAGS:

| |
|--|
| |
| |

STRAIGHT CARAPACE-LENGTH:

49.9

WIDTH:

38.7

NOTCH LENGTH:

49.6

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

53.0

WIDTH:

47

HEAD WIDTH:

8.2

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T 11.0

C

7.5

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

39.3

WEIGHT:

38

DESCRIPTIVE REMARKS:

1.7 LIQ

9.0 BLOOD FOR TW

157

SEA TURTLE TAGGING FORM

9

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|---|---------|------------|
| PUAKO | 3/26/98 | HAND SCUBA |
| PERSON RECORDING DATA: ALLISON PHILLIPS | | |

OLD TAGS:

| |
|--|
| |
| |
| |
| |

NEW TAGS: RFL

| |
|--|
| 407D334F4C |
|  |

LFL

TUMOR SCORE

OTHER NEW TAGS:

| |
|--|
| |
| |

0

STRAIGHT CARAPACE-LENGTH:

47.6

WIDTH:

38.0

NOTCH LENGTH:

46.9

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

50.0

WIDTH:

45.0

HEAD WIDTH:

7.5

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T 10.5

C

7.5

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

37.5

WEIGHT:

33

DESCRIPTIVE REMARKS:

1.7 LIQ

9CC BLOOD FOR Twork

158

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Puako Hand ~~capture~~ SCUBA 10
PERSON RECORDING DATA: M. Rice 3/26/98

OLD TAGS: 41505E4859
TUMOR SCORE: 0
0 769
0 770
0 771

NEW TAGS: RFL
LFL
OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 41.7 WIDTH: 33.2

NOTCH LENGTH: 41.2 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 44 WIDTH: 39

HEAD WIDTH: 6.6 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T 7.5 C 5.0

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED

PLASTRON LENGTH: 33.0

WEIGHT: 21

DESCRIPTIVE REMARKS: RH 1/2 missing/holed

SEA TURTLE TAGGING FORM

159

CAPTURE DATE, LOCATION AND METHOD:

Puako *Hand SCUBA* N

PERSON RECORDING DATA: *Rui* 3/26/98

OLD TAGS:

1F272F2269
K329
K328
K330

NEW TAGS: RFL

TUMOR SCORE

LFL

OTHER NEW TAGS:

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

YES NO NE

TAIL LENGTH:

T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

Blood

4.341g

WEIGHT:

9cc for TW

DESCRIPTIVE REMARKS:

LH - healed notch.

160

SEA TURTLE TAGGING FORM

12

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: RFL

LFL

TUMOR SCORE

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH:

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

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX:

PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

13

SEA TURTLE TAGGING FORM

161

CAPTURE DATE, LOCATION AND METHOD:

Prakas Hand SCUBA

PERSON RECORDING DATA: M. Rice 3/26/98

OLD TAGS:

N 619

NEW TAGS: RFL

407D024C34

TUMOR SCORE

N 618

LFL



0

Blue Plastic L35
Dorsal Plate missing
ventral plates 50% gone
of tag
of tag

OTHER NEW TAGS:

Empty boxes for other tags

STRAIGHT CARAPACE-LENGTH:

60.9

WIDTH:

47.3

NOTCH LENGTH:

60.4

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

64.5

WIDTH:

55.5

HEAD WIDTH:

49.2

SEX: MALE, FEMALE OR UNDETERMINED

Empty box for sex

PPS: YES OR NO OR NE

Empty box for PPS

TAIL LENGTH:

T

13

C

9.5

RIGHT FRONT FLIPPER WIDTH:

Empty box for flipper width

SAMPLES COLLECTED:

PLASTRON LENGTH:

49.1

Empty box for samples collected

WEIGHT:

67

Blood
9cc for T Work

DESCRIPTIVE REMARKS:

3.6 LIQ

162

SEA TURTLE TAGGING FORM

14

CAPTURE DATE, LOCATION AND METHOD:

| | | |
|--------------------------------|-------|---------|
| PUAKO | SCUBA | 3/26/98 |
| PERSON RECORDING DATA: M. Rice | | |

OLD TAGS:

| |
|------------|
| 221A685663 |
| Q538 |
| Q537 |
| Q539(R3-4) |

NEW TAGS: RFL

LFL

TUMOR SCORE

0

OTHER NEW TAGS:

close to edge

STRAIGHT CARAPACE-LENGTH:

53.5

WIDTH:

41.1

NOTCH LENGTH:

53.4

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

57.5

WIDTH:

50.0

HEAD WIDTH:

8.1

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

YES

Y

TAIL LENGTH:

T

12

C

8.5

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

42.0

WEIGHT:

44

9cc for TLW

DESCRIPTIVE REMARKS:

2.3 L19

blood

SEA TURTLE TAGGING FORM

163

CAPTURE DATE, LOCATION AND METHOD:

Puako ^{Hand} SCUBA

PERSON RECORDING DATA: M. Rice 3/26/98

OLD TAGS:

7F7F591D46

NEW TAGS: RFL

[]

TUMOR SCORE

R774

LFL

[]

0

R775

OTHER NEW TAGS:

[]

K332

[]

R776

STRAIGHT CARAPACE-LENGTH:

54.8

WIDTH:

45.4

NOTCH LENGTH:

54.7

DB:

[]

L.O.

VB:

[] L.O.

CURVED CARAPACE LENGTH:

58

WIDTH:

52

HEAD WIDTH:

8.7

SEX: MALE, FEMALE OR UNDETERMINED

[]

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T

11.5

C

9

RIGHT FRONT FLIPPER WIDTH:

[]

SAMPLES COLLECTED:

PLASTRON LENGTH:

45.7

[]

WEIGHT:

52

mild emaciation blood

9cc for TW

DESCRIPTIVE REMARKS:

2.3 LIQ

16

164

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Puako Hand
SCUBA

PERSON RECORDING DATA: M. Rice 3/26/98

OLD TAGS:

| |
|--|
| |
| |
| |
| |

NEW TAGS: RFL

407D014138

LFL



TUMOR SCORE

0

OTHER NEW TAGS:

| |
|--|
| |
| |

STRAIGHT CARAPACE-LENGTH:

50.8

WIDTH:

40.6

NOTCH LENGTH:

50.6

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

54

WIDTH:

48.5

HEAD WIDTH:

8.4

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

YES

TAIL LENGTH:

T 11.5

C

8

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH:

39.7

WEIGHT:

40

9cc for TW

DESCRIPTIVE REMARKS:

2.3 LIQ

SEA TURTLE TAGGING FORM

165

CAPTURE DATE, LOCATION AND METHOD:

Puako Handscur 3/26/98
PERSON RECORDING DATA: M. Ricci

OLD TAGS:

R768
R769
R770

TUMOR SCORE

0

K325

NEW TAGS: RFL

LFL



OTHER NEW TAGS:

[Empty boxes for other tags]

STRAIGHT CARAPACE-LENGTH:

54.3

WIDTH:

41.8

NOTCH LENGTH:

54.2

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

58

WIDTH:

51

HEAD WIDTH:

8.3

SEX: MALE, FEMALE OR UNDETERMINED

[Empty box for sex]

PPS: YES OR NO OR NE

[Empty box for PPS]

TAIL LENGTH:

T

[Empty box for tail length T]

C

[Empty box for tail length C]

RIGHT FRONT FLIPPER WIDTH:

[Empty box for flipper width]

SAMPLES COLLECTED:

PLASTRON LENGTH:

41.9

WEIGHT:

44

Blood 9cc for T. Work

DESCRIPTIVE REMARKS:

2.3 LIQ

18.

Continued to #19 (small Data sheets) last turtle ⁹⁰ page 115

166

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

| | |
|--------------------------------|------------|
| Puako | Hand SCUBA |
| PERSON RECORDING DATA: M. Rice | 3/26/98 |

OLD TAGS:

| |
|--|
| |
| |
| |
| |

TUMOR SCORE

0

NEW TAGS: RFL 407D335C25

LFL

OTHER NEW TAGS:

| |
|--|
| |
| |

STRAIGHT CARAPACE-LENGTH: 57.3

WIDTH: 44.5

NOTCH LENGTH: 57.0

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH: 60.5

WIDTH: 53.5

HEAD WIDTH: 8.9

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 13.5 C 9.5

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH: 46.6

9 cc for T work

WEIGHT: 56

3.0 L19

DESCRIPTIVE REMARKS: RH- 1/4 missing, healed

CAPTURE DATE, LOCATION AND METHOD:

2/3/99 Kiholo Lagoon (16)
PERSON RECORDING DATA: E. DAVIS
Hendriks

OLD TAGS: 221AF523466
TUMOR SCORE: 8983
0

NEW TAGS: 410417130E
LHF →

STRAIGHT CARAPACE-LENGTH: 65.4
NOTCH LENGTH: 65.2
CURVED CARAPACE LENGTH: 71.5
HEAD WIDTH: 9.9

WIDTH: 50.7
DB: L.O.
WIDTH: 63.5
VB: L.C.

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y
TAIL LENGTH: T
RIGHT FRONT FLIPPER WIDTH: 10.3

PLASTRON LENGTH: 52.5
WEIGHT: 87

DESCRIPTIVE REMARKS: No skin baracles present.
When released in distance removed by pulling up. PRINT photos of left lateral site where removed, and slight indentation. TDR/SON ON TABLES

CAPTURE DATE, LOCATION AND METHOD:

2/2/99 Kiholo Lagoon (17)
PERSON RECORDING DATA: E. DAVIS
hard snorkel

OLD TAGS: K697
TUMOR SCORE: K695
0

NEW TAGS: 41040B2D2C
LHF

STRAIGHT CARAPACE-LENGTH: 53.6
NOTCH LENGTH: 53.4
CURVED CARAPACE LENGTH: 57
HEAD WIDTH: 8.3

WIDTH: 42.0
DB: L.O.
WIDTH: 50.0
VB: L.O.

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y
TAIL LENGTH: T
RIGHT FRONT FLIPPER WIDTH: 9.8

PLASTRON LENGTH: 42.3
WEIGHT: 45

DESCRIPTIVE REMARKS: 4 Skin baracles taken Collected
slightly swollen
2.3(0x) LIG
When released went into pond. Irregular tissue at cloaca

167

(18)

NOT FOR DPZ → (x 21399)

CAPTURE DATE, LOCATION AND METHOD:

2-2-99 Kiholo hand snatched
PERSON RECORDING DATA: E. DAVIS

OLD TAGS: F160621P73
NEW TAGS: 4104005A01
TUMOR SCORE: 0
LHF
OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 51.9 WIDTH: 40.6
NOTCH LENGTH: 51.8 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 56 WIDTH: 48.9
HEAD WIDTH: 8.2
SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y
TAIL LENGTH: T 14 C 9
RIGHT FRONT FLIPPER WIDTH: 8.9 SAMPLES COLLECTED
PLASTRON LENGTH: 41.5
WEIGHT: 41
DESCRIPTIVE REMARKS: Numerous skin parasites some collected.

(including 4 from plastron) when released in stone but didn't exit, turned 10 min later went into pond.

14PPT 11, PPT 8PPT, 4, 5 (19)

CAPTURE DATE, LOCATION AND METHOD:

2-2-99 Kiholo hand snatched
PERSON RECORDING DATA: P. LINCOLN

OLD TAGS: 7754
NEW TAGS: F LFF I 4104006E5A
TUMOR SCORE: 0
OTHER NEW TAGS: LHF 41037B253F

STRAIGHT CARAPACE-LENGTH: 65.4 WIDTH: 49.9
NOTCH LENGTH: 65.2 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 70.5 WIDTH: 65.5
HEAD WIDTH: 9.8
SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y
TAIL LENGTH: T C
RIGHT FRONT FLIPPER WIDTH: 10.9 SAMPLES COLLECTED
PLASTRON LENGTH: 52.3
WEIGHT: 89
DESCRIPTIVE REMARKS: Although in net stomach listed, if this LIG (not listed) needed received from

Moderate skin parasites (collected) when released in stone then out seaward. printed at 1.

CAPTURE DATE, LOCATION AND METHOD:

2-2-98 Kinoho hand snorkel

PERSON RECORDING DATA: P. HIRSH

OLD TAGS:

K337

K334

NEW TAGS: RFL

LHF

LEF

40773F593A

TUMOR SCORE

0

OTHER NEW TAGS:

#1F6949400f

STRAIGHT CARAPACE-LENGTH:

51.0

WIDTH:

52.3

NOTCH LENGTH:

5.4

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

56.5

WIDTH:

49

HEAD WIDTH:

8.2

PPS: YES OR NO OR NE

Y

SEX:

MALE, FEMALE OR UNDETERMINED

TAIL LENGTH:

11.5

T

C

RIGHT FRONT FLIPPER WIDTH:

7

SAMPLES COLLECTED

PLASTRON LENGTH:

41.1

WEIGHT:

28

DESCRIPTIVE REMARKS:

light skin barnacles present.
RH + RF heel tag set
Photo LHF
Painted # 2
When released went seaward

CAPTURE DATE, LOCATION AND METHOD:

2-2-98 Kinoho hand snorkel

PERSON RECORDING DATA:

OLD TAGS:

41090413

NEW TAGS: RFL

LHF

LEF

4104130766

TUMOR SCORE

0

OTHER NEW TAGS:

Q731

Q732

Q733

STRAIGHT CARAPACE-LENGTH:

46.7

WIDTH:

36.6

NOTCH LENGTH:

46.3

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

49

WIDTH:

42

HEAD WIDTH:

7.3

PPS: YES OR NO OR NE

N

SEX:

MALE, FEMALE OR UNDETERMINED

TAIL LENGTH:

T

C

RIGHT FRONT FLIPPER WIDTH:

8.3

SAMPLES COLLECTED

PLASTRON LENGTH:

36.9

WEIGHT:

28

DESCRIPTIVE REMARKS:

shiny no skin barnacles
need present.
Lig? painted # 3
When released west pondward

169

CAPTURE DATE, LOCATION AND METHOD:

722 2-2-99 Kiholo band, snorkel Lagoon
PERSON RECORDING DATA: E. DAVIS

CAPTURE DATE, LOCATION AND METHOD:

223 2-2-99 Kiholo Lagoon heart Snorkel.
PERSON RECORDING DATA:

OLD TAGS: 221A5166B26
NEW TAGS: 4077487617
LHF
TUNOR SCORE: H30
OTHER NEW TAGS: B954
H31

OLD TAGS: IF6F230946
NEW TAGS: 40773E3A43
LHF
TUNOR SCORE: V6667
OTHER NEW TAGS: V6666
8

STRAIGHT CARAPACE-LENGTH: 50.8 WIDTH: 39.0
NOTCH LENGTH: 50.5 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 55 WIDTH: 47.5

STRAIGHT CARAPACE-LENGTH: 50.4 WIDTH: 34.1
NOTCH LENGTH: 50.3 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 54.5 WIDTH: 48.0

HEAD WIDTH: 17.9 SEX: MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE Y
TAIL LENGTH: T 11 C 7

HEAD WIDTH: 8.1 SEX: MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE Y
TAIL LENGTH: T 10.5 C 7

RIGHT FRONT FLIPPER WIDTH: 9.3 SAMPLES COLLECTED
PLASTRON LENGTH: 41.0
WEIGHT: 38
DESCRIPTIVE REMARKS: light skin barnacles present

RIGHT FRONT FLIPPER WIDTH: 8.8 SAMPLES COLLECTED
PLASTRON LENGTH: 39.5
WEIGHT: 34
DESCRIPTIVE REMARKS: Moderate skin barnacles present

LHF - healed tag notch.
point #4 when released in sliver Pond.
point #5 when released went towards ocean.

mod point #5
LHF? when released went towards ocean.

END

CAPTURE DATE, LOCATION AND METHOD:

6-4-99 Kiholo Scoop net
PERSON RECORDING DATA: Elissa Stage

NEW TAGS: 407A3D796C



OTHER NEW TAGS: LFF



TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH: 49.9 WIDTH: 41.0

NOTCH LENGTH: 49.6 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 53.5 WIDTH: 48

HEAD WIDTH: 7.9

PPS: YES OR NO OR NE Y SEX: MALE, FEMALE OR UNDETERMINED U

TAIL LENGTH: T 11 C 7.5

RIGHT FRONT FLIPPER WIDTH: 8.6 SAMPLES COLLECTED

PLASTRON LENGTH: 38.6 cm

WEIGHT: 30.1

DESCRIPTIVE REMARKS:

2.0 L1Q

① Resorb
② Murex eye
LC 1

CAPTURE DATE, LOCATION AND METHOD:

6-4-99 Kiholo Scoop net
PERSON RECORDING DATA: Elissa Stage

OLD TAGS:

Q-691

Q-690

Q-692

NEW TAGS: 1

LFF

OTHER NEW TAGS:

407A316515

STRAIGHT CARAPACE-LENGTH: 43.6 WIDTH: 34.9

NOTCH LENGTH: 43.3 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 47.0 WIDTH: 41.0

HEAD WIDTH: 7.3

PPS: YES OR NO OR NE Y SEX: MALE, FEMALE OR UNDETERMINED V

TAIL LENGTH: T 10 C 6

RIGHT FRONT FLIPPER WIDTH: 7.9 SAMPLES COLLECTED

PLASTRON LENGTH: 35.2

WEIGHT: 26

DESCRIPTIVE REMARKS:

171

172

CAPTURE DATE, LOCATION AND METHOD:

6-4-99 Ki-Holo Scoop Net

PERSON RECORDING DATA: Elissa Stage

OLD TAGS:

V-806
V-807
Q727
40837D0878

NEW TAG

407A494A10

LHF



OTHER NEW TAGS:

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH:

53.1

WIDTH:

39.9

NOTCH LENGTH:

52.7

DB:

L.O.

VB:

L.C

CURVED CARAPACE LENGTH:

56.0

WIDTH:

47.5

HEAD WIDTH:

8.1

SEX:

MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

11.0

T

WIDTH:

7.5

RIGHT FRONT FLIPPER WIDTH:

9.1

SAMPLES COLLECTED

PLASTRON LENGTH:

41.6

WEIGHT:

37.0

DESCRIPTIVE REMARKS:

CAPTURE DATE, LOCATION AND METHOD:

6-4-99 Ki-Holo Scoop Net

PERSON RECORDING DATA: Elissa Stage

OLD TAGS:

K-453
K-454
K-452

NEW TAGS:

407A2D7372

LHF



OTHER NEW TAGS:

407A424351

LHF

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH:

44.7

WIDTH:

35.6

NOTCH LENGTH:

44.1

DB:

L.O.

VB:

L.C

CURVED CARAPACE LENGTH:

48.0

WIDTH:

42.0

HEAD WIDTH:

7.4

SEX:

MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

8.5

T

C

WIDTH:

5.5

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH:

36.2

WEIGHT:

27.0

DESCRIPTIVE REMARKS:

1 ml L1Q

6-4-99

Kitolo Scoop Net

PERSON RECORDING DATA:

Elisa Stagg

OLD TAGS:

41044037D7L

4104220842

TUMOR SCORE

0

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

39.6

WIDTH:

31.7

NOTCH LENGTH:

39.4

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

47.0

WIDTH:

37.0

HEAD WIDTH:

6.4

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

8.0

C

RIGHT FRONT FLIPPER WIDTH:

6.9

SAMPLES COLLECTED

PLASTRON LENGTH:

31.1

19.0

KS:

Seidung level
found in pps

Severe emaciation

#13 print film picture group w/ turtle

END

6-4-99 Kitolo Hand Sorkel, Lago

PERSON RECORDING DATA: Elisa Stagg

OLD TAGS:

J-624

NEW TAGS:

H-248

LHP

TUMOR SCORE

0

H-247

OTHER NEW TAGS:

221867370

STRAIGHT CARAPACE-LENGTH:

53.7

WIDTH:

42.7

NOTCH LENGTH:

53.5

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

58.0

WIDTH:

52.5

HEAD WIDTH:

9.0

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

11.5

C

RIGHT FRONT FLIPPER WIDTH:

9.8

SAMPLES COLLECTED

PLASTRON LENGTH:

42.6

WEIGHT:

49.0

DESCRIPTIVE REMARKS:

261369
261371
261638

#19 print film picture
close up swelling of cloaca

2.3 ml LIQ

DATA Log
Stonewall

1516 morpholement
entangled neck and outg. most
flippers - no outg. most
I end of it close.

173

174

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: RFL LFL TUMOR SCORE OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH: NOTCH LENGTH: DB: L.O. VB: L.C. 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:

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: RFL LFL TUMOR SCORE OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH: NOTCH LENGTH: DB: L.O. VB: L.C. 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:

~~Phone & discs~~

175

Date: Sat, 26 Sep 1998 21:26:34 -1000
From: "Marc R. rice" <mrice@hpa.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: KIHOLO

Waipio Bay nest

Reduce
Kiholo
boat

George,

Hope the weekend went well with Dara. It seems that the weather was nice (at least it was here).

A couple of little bits of info:

1. a good friend called and claimed that there was a turtles next (egg chamber) that was exposed by the high surf at Waipio Bay today. I told him that they should not do anything except recover them as best they could and let them be. I knew that you were not available and that not much could be done anyhow. I did ask them to take pictures of everything they could and forward them to me. By the way, one of the little middle schoolers that came along was Winter Anderson, their son...

I know that Dave Anderson (the caller) is a very reliable person- he is an old salt and owns a nice boat.... I hope that my advice to him was appropriate. I would have gone down there myself except that I was totally committed through Sunday afternoon.

2. Went down to Kiholo today and exchanged the PC card in the D195 remote sensor. Everything is still in good shape and both hydrophones are still recording. I don't know yet if the two turtles are still around but I do know that I must go down and try and retrieve the data from them. I will try and do that the week after you get back from DC.

There were 6 turtles basking at Kiholo while I was there (1330 to 1430). There were 4 on the north side and two on the south side.

Let me know if you hear anything about Midway..

need C

176

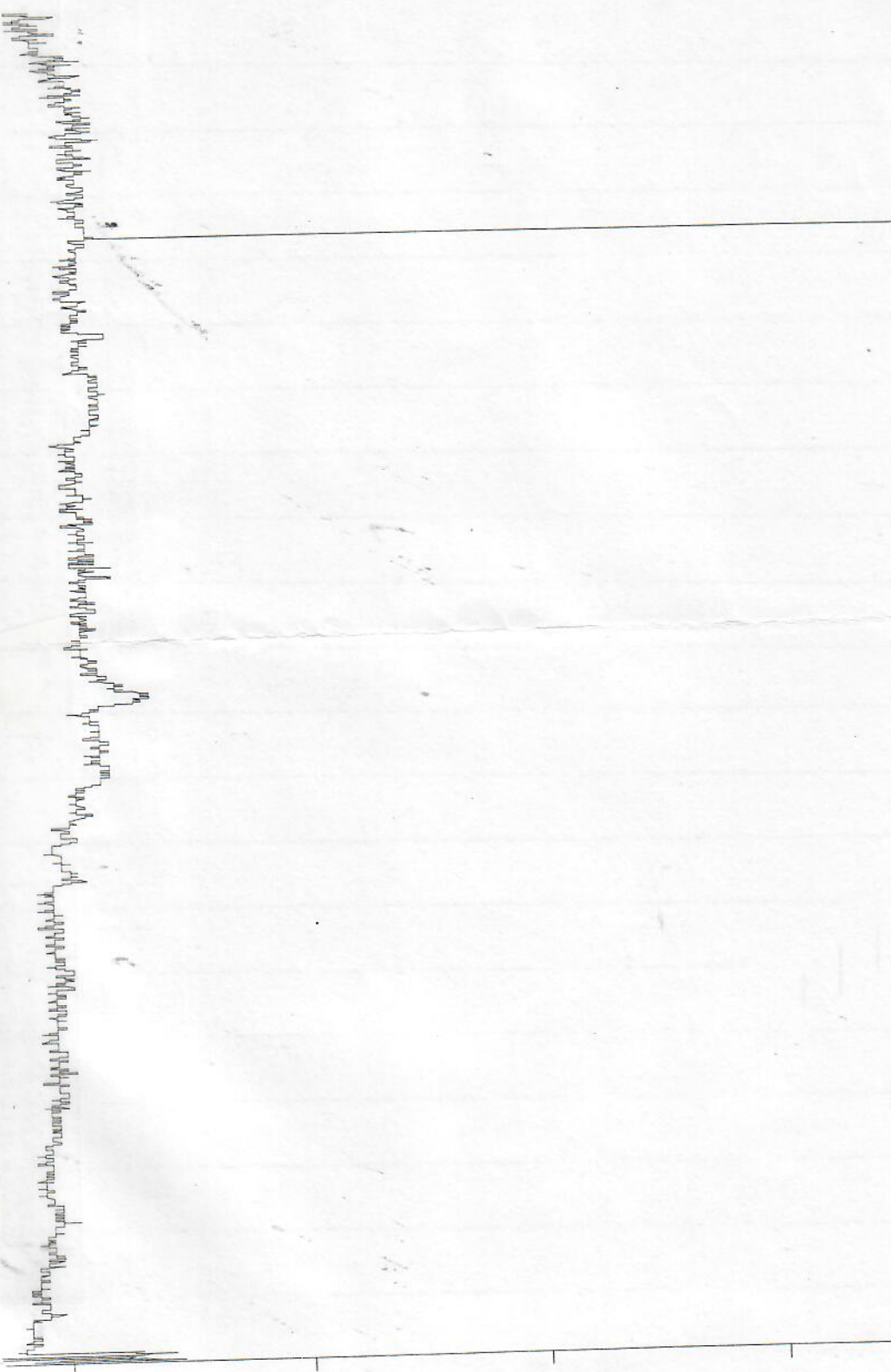
Date: Sun, 15 Nov 1998 22:15:57 -1000
From: mrice@npa.edu
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Kiholo Visit

George, Went down to Kiholo Saturday afternoon and replaced the battery and PC card in the DL 95. Everything seems to be fine with the station and we seem to be getting good data. I did count 5 basking turtles while I was there- three on the south side and 2 on the north side. When I walked the north side, I counted 5 turtles in ~1 foot of water (right on the edge of the rocks) resting, absolutely still. There were several turtles patrolling the edge of the lagoon also... almost as though they were looking for a place to park.

When we walked back I stopped at the pond and looked along the edge, for a moment... saw three small turtles resting right up along the edge in very shallow water. They were obviously resting and not feeding. Seems that this pond has become a much more popular spot that previously thought!

Will try and get down there again this week sometime. Have a nice trip.

180



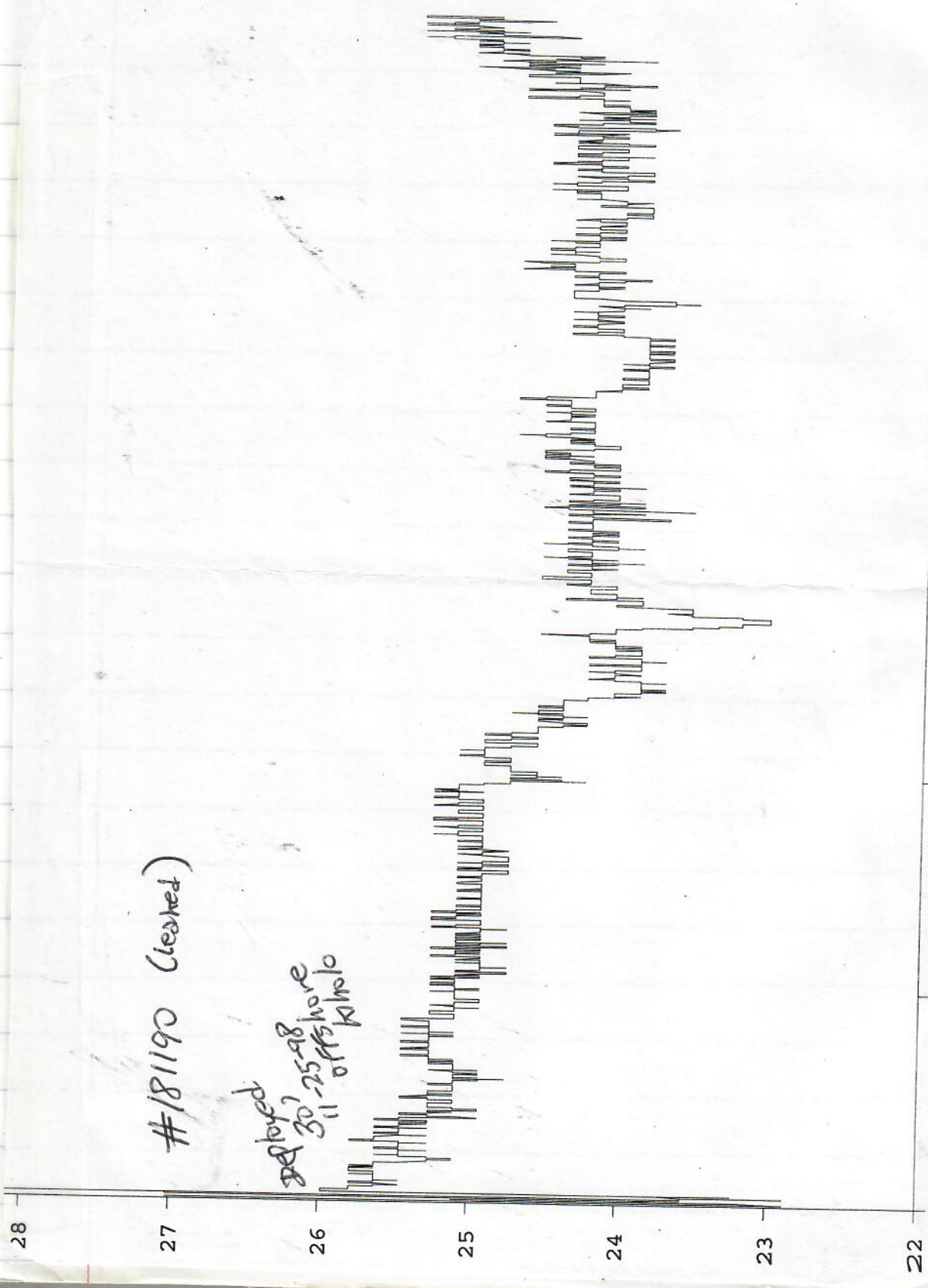
05/23
N/N 86069
04/23
03/24/99
02/22
03/23
12/24
11/24
1998

Project 11/25/99, 12/22/99, 02/22/99, 03/24/99, 04/23/99, 05/23/99

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#181190 (cleaned)

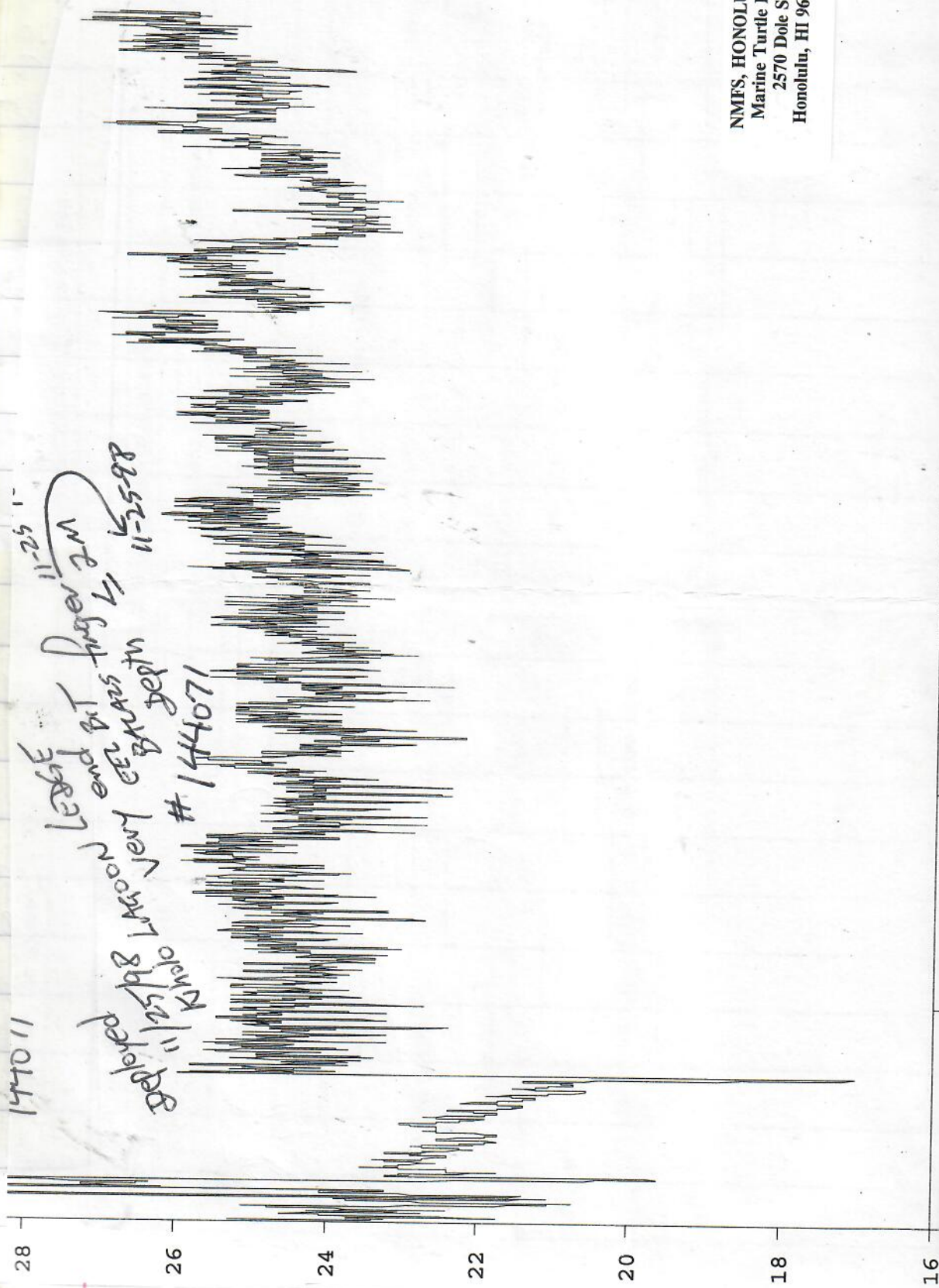
Deployed
30' - 25' offshore
Kiholo



11/24 1998
 12/24/99
 01/23/99
 02/22
 03/24
 04/23
 05/23
 STARTED 11/24/98 DEPLOYED KIHOLO, OFFSHORE 30' 11/25/98 S/N 181190

186

147011
Deployed 11/25/98
KINHO
144071
LEDGE
end of finger 2M
Very clear depth
11-25-98



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

11/05 1998
12/05
01/04
02/03
03/05
04/04/99
05/04

ENTERED W/SHIP DEPLOYED KINHO (Access), LAUGHYEN LEVYEN (Access)
B/N 144071

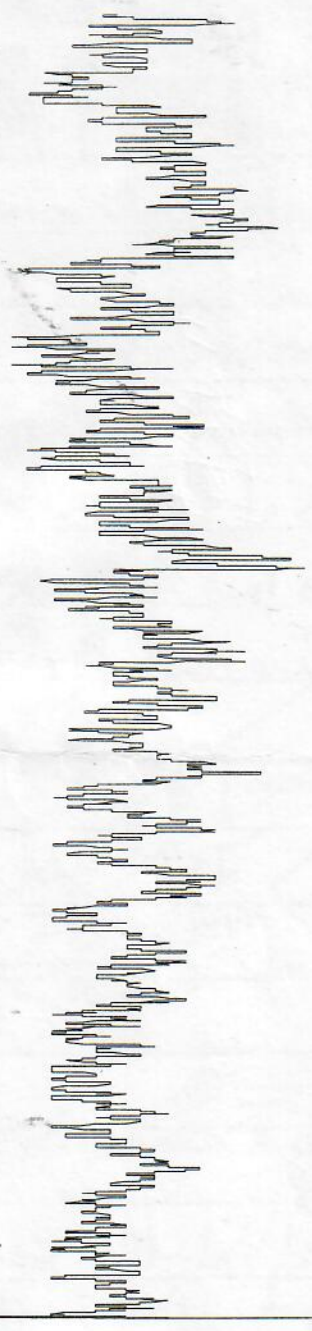
#18191 Rock 1918

52M

Kiholo Lagoon

Deployed #18191 52M
11/25/98

30
28
26
24
22
20
18
16



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

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10/29 1998
 11/28
 12/28
 01/27
 02/26
 03/28
 04/27
 STARTED 10/28/98; DEPLOYED KIHOLO LAGOON, LANDWARD LEDGES 11/25/98
 S/N 181191

188
KIHOLA

(Previously used Honolulu WA, MAU)

ONSETS

p.26 narrative

2-3-99 0498 onset stowage in PVC case deployed
wed. as replacement for #144069
in pond 2 Kihola, under Rock near bridge
easy to locate.

DATA
PAGES =
171-173

Retrieved TO Honolulu with ONset #144069
onset #181185 found by MARC Rice Rocks Ledge
in lagoon, 2.5-3' deep, lots of silt inside, yellow
polytop floating up. This had been in a hole
maybe someone saw the line and pulled it up.

onset
summary
p.20, 23

Kiholo GCB & me see page 8 student's manual
6-4-99 Retrieved #261370 } Deployed by
Friday #243582 } MARC Rice SCUBA
at ~30' offshore Kiholo

Range #?
o ok
o out

see p.20 & 23
no blinking
#86069 "refur"
#181190 water leak seen on top from basket.

Two Retrieved & Replaced in lagoon landward side:
(note one not found = 181191 Lava Rock islet
Replaced with = 144071 (far end of lagoon)
261369
26371
261638

243589
Retrieved to Honolulu

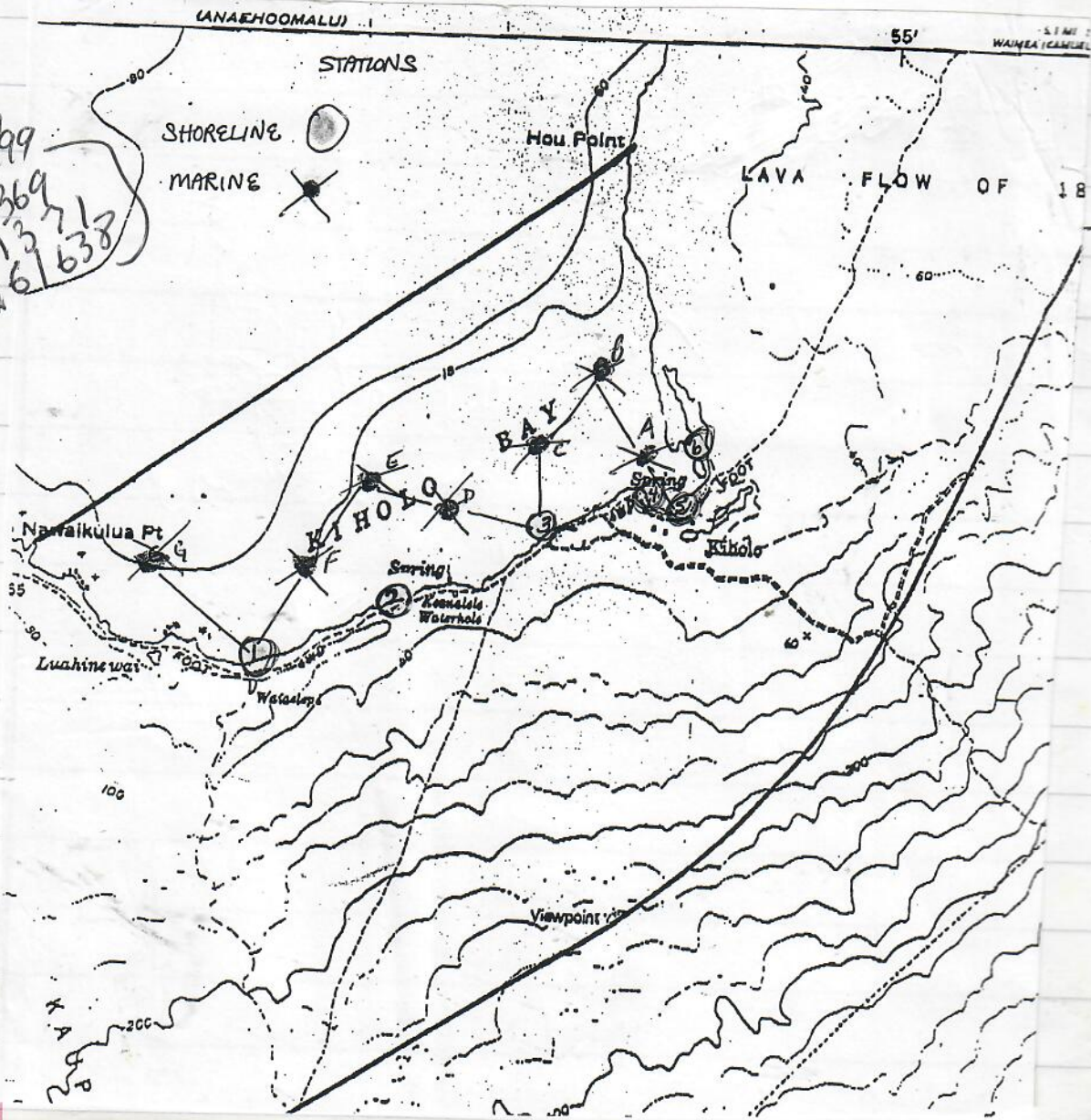
18489
not found
AT POINT TREE
NONI TREE
landward side

NOVEMBER 30, 1998

Medtronic buying Arterial Vascular

MINNEAPOLIS — Medtronic Inc., one of the world's largest medical device makers, is buying Arterial Vascular Engineering Inc., the leader in manufacturing coronary stents, for about \$3.7 billion in stock.

67499
261369
261371
261638



190

Diving with a Difference - We Care



DIVE MAKAI CHARTERS

POST OFFICE BOX 2955
KAILUA-KONA, HAWAII 96745
PHONE & FAX: (808) 329-2025

Att: George Balazs

Capt. Tom Shockley

Capt. Lisa Choquette

4/29/97

Hi, George -

It's been a long time! Been yo-o-busy!

Reports: Hawkbill @ Au Au Canyon
Approx 30 mi S. Kailua - look for Au Au
Point on Univ. of Hi Press Map just S. of
Kona Paradise Subdivision! Think same
! we saw 7/96! Resting @ 100'! Maybe
22"!

Turtle towers
4/28/97 - @ Turtles - RH J 487 (7 could have been
KATHOKO a 9 - don't think
so!)
J486, 487, 488, 489
+ PIT 7/14/94 KATHOKO
SCL = 57.3 cm (LF) maybe 686? Algae
J488
Wish you could color tag!

Shell approx 28"!

Lots & lots of turtles out there - BIG ones!
Used to see 6-8 individuals consistently!
Now 12+! Few tags! It's great.

Hope all is well -
Lisa

05-02/97

13:03

DIVE MAKAI CHARTERS - 808 943 1290

001

Diving with a Difference - We Care



**DIVE
MAKAI
CHARTERS**

POST OFFICE BOX 2955
KAILUA-KONA, HAWAII 96745
PHONE & FAX: (808) 329-2025

att: George Balazs

Capt. Tom Shackley

Capt. Lisa Choquette

191-699

5/2/97

Hi, George,

Sory for the confusion:

J487 returned to "scene of
crime" & was spotted @ Turtle
Towers outside Honokohau!

Hawks only @ Au Au (Kona Paradise)

Lots of youngsters showing up!

Lisa

192

| Tag Number | Date Tagged | Tag Type | Tag Positio |
|------------|-------------|----------|-------------|
| 10115E01 | 09/30/95 | PIT | PIT |
| 274C0965 | 02/09/94 | PIT | PIT |
| D98 | 04/25/90 | M1 | LFL |
| R473 | 09/28/92 | I681 | L34 |
| R474 | 09/28/92 | I681 | R23 |

Historical information--

| Date | Type of Encounter | Location |
|----------|-------------------|----------------|
| 04/25/90 | Near Shore | Hawaii, Kiholo |
| 09/28/92 | Near Shore | Hawaii, Kiholo |
| 01/11/94 | Near Shore | Hawaii, Kiholo |
| 02/09/94 | Near Shore | Hawaii, Kiholo |
| 09/15/94 | Near Shore | Hawaii, Kiholo |
| 03/03/95 | Near Shore | Hawaii, Kiholo |
| 09/30/95 | Near Shore | Hawaii, Kiholo |

| Straight Length | Since Last Encounter | | | Overall | | |
|-----------------|----------------------|------|---------------------|----------------|------|---------------------|
| | Interval Month | Year | Growth-rates cm/mon | Interval Month | Year | Growth-rates cm/mon |
| 27.9 | --- | --- | --- | --- | --- | --- |
| 41.7 | 29 | 2.4 | 0.5 | 29 | 2.4 | 0.5 |
| 42.6 | 15 | 1.3 | 0.1 | 44 | 3.7 | 0.3 |
| 42.7 | --- | --- | --- | 45 | 3.8 | 0.3 |
| 43.4 | 7 | 0.6 | 0.1 | 52 | 4.3 | 0.3 |
| 43.6 | 5 | 0.4 | 0.0 | 58 | 4.8 | 0.3 |
| 43.9 | 6 | 0.5 | 0.0 | 65 | 5.4 | 0.2 |

| Tag Number | Date Tagged | Tag Type | Tag Posit |
|------------|-------------|----------|-----------|
| 752E3F7F | 03/04/95 | PIT | PIT |
| B259 | 03/04/95 | I681 | LHF |
| D182 | 04/22/92 | M1 | LFL |
| D183 | 04/22/92 | M1 | R34 |
| H255 | 04/22/92 | I681 | RFL |
| K349 | 01/11/94 | I681 | L23 |
| Q297 | 02/22/96 | I681 | RHF |

Historical information--

Type
of

| Date | Encounter | Location |
|----------|------------|----------------|
| 04/22/92 | Near Shore | Hawaii, Kiholo |
| 09/28/92 | Near Shore | Hawaii, Kiholo |
| 02/12/93 | Near Shore | Hawaii, Kiholo |
| 01/11/94 | Near Shore | Hawaii, Kiholo |

| Straight Length | Since Last Encounter | | | Overall | | |
|-----------------|----------------------|------|------------------------|-------------------|------|------------------------|
| | Interval Month | Year | Growth-rates cm/mon | Interval Month | Year | Growth-rates cm/mon |
| 37.0 | --- | --- | --- | --- | --- | --- |
| 41.4 | 5 | 0.4 | 0.9 | 5 | 0.4 | 0.9 |
| 41.9 | 4 | 0.3 | 0.1 | 9 | 0.8 | 0.5 |
| 43.9 | 10 | 0.8 | 0.2 | 20 | 1.7 | 0.3 |
| 46.8 | 8 | 0.7 | 0.4 | 28 | 2.3 | 0.3 |
| 48.6 | 5 | 0.4 | 0.4 | 34 | 2.8 | 0.3 |
| 54.1 | 11 | 0.9 | 0.5 | 45 | 3.8 | 0.4 |
| 53.6 | --- | --- | --- | 46 | 3.8 | 0.4 |
| --- | 6 | 0.5 | --- | 52 | 4.3 | --- |
| 54.9 | --- | --- | --- | 52 | 4.3 | 0.3 |

| | | |
|----------|------------|----------------|
| 09/16/94 | Near Shore | Hawaii, Kiholo |
| 03/04/95 | Near Shore | Hawaii, Kiholo |
| 02/21/96 | Near Shore | Hawaii, Kiholo |
| 02/22/96 | Near Shore | Hawaii, Kiholo |
| 09/11/96 | Near Shore | Hawaii, Kiholo |
| 09/11/96 | Near Shore | Hawaii, Kiholo |

24

| Tag Number | Date Tagged | Tag Type | Tag Positi |
|------------|-------------|----------|------------|
| D97 | 10/19/89 | M1 | LFL |
| H65 | 01/14/92 | I681 | LFL |
| Y254 | 10/19/89 | I681 | L12 |

Historical information--

Type of Encounter

| Date | Encounter | Location | Straight Length | Since Last Encounter | | Overall | | | | | |
|----------|------------|----------------|-----------------|----------------------|------|----------------|------|----------------|------|-----|------|
| | | | | Interval Month | Year | Interval Month | Year | Interval Month | Year | | |
| 10/19/89 | Near Shore | Hawaii, Kiholo | 32.9 | --- | --- | --- | --- | --- | --- | --- | --- |
| 01/24/90 | Near Shore | Hawaii, Kiholo | 36.2 | 3 | 0.3 | 1.1 | 11.0 | 3 | 0.3 | 1.1 | 11.0 |
| 01/14/92 | Near Shore | Hawaii, Kiholo | 46.4 | 23 | 1.9 | 0.4 | 5.4 | 26 | 2.2 | 0.5 | 6.1 |
| 04/21/92 | Near Shore | Hawaii, Kiholo | 46.7 | 3 | 0.3 | 0.1 | 1.0 | 30 | 2.5 | 0.5 | 5.5 |

Useful Information

WAIPIO Nest 9/98 page 175; Kaloko p.46, p.191

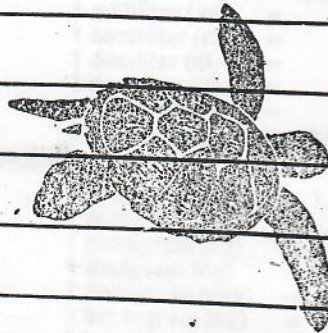
Straight carapace length

M

Straight carapace length (cm)

mL Liquamycin

| | |
|---------|-----|
| 35-39.9 | 0.5 |
| 40-44.9 | 1.0 |
| 45-49.9 | 1.7 |
| 50-54.9 | 2.3 |
| 55-59.9 | 3.0 |
| 60-64.9 | 3.6 |
| 65-69.9 | 4.3 |
| 70-74.9 | 4.9 |
| 75-79.9 | 5.6 |



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

mm
mm
mm
mm
mm

NCHES
39.37
36.00

FEET
.0328
1/12
1.000

ES
21
30

POUNDS
.002
1/16
1.000
2.205

POUNDS
2.205
1/16
1.000

GAL.
.264
1/8
1/4
1.000

Curved carapace length

Curved carapace length (cm)

mL Liquamycin

| | |
|---------|-----|
| 40-44.9 | 0.7 |
| 45-49.9 | 1.3 |
| 50-54.9 | 1.9 |
| 55-59.9 | 2.5 |
| 60-64.9 | 3.1 |
| 65-69.9 | 3.7 |
| 70-74.9 | 4.3 |
| 75-79.9 | 4.9 |
| 80-84.9 | 5.5 |

2 pint
8 quart
4 peck
1 cord

Tab
4 gal
2 pi
4 qu
31 1/2 gal
2 bu

Tab
24 sheaf
20 quin
10 ream

Tab
12 in
3 ft
16 1/2 ft
660 ft
320 rd

Misc
12 unit
12 doz.
12 gr.
20 unit
1 han
1 fativ
1 knot
3 knot
1 bu. f
1 barr
1 cu. f
gals. a
Diamet
circu
Diamet
.7854
Atmos
per s
13 1/2 cu. ft. of air weighs 1 lb.

A township is 36 sq. miles.

3.165 | 8.000 | 4.000

