

# BALAZS Loggers

P. 109, 145

142, 150-152, 160

- MARC RICE HPA - LISA EMAILS

KUAKO: 5/26/98 p. 34 mead KIHOLLO EMAILS

## COMPOSITION FULL

KEAWA NUI: 9/23/98 p. 56

KAKO-HAIAKOHAI: 7-28-99 p. 129

KIHOLLO Radiometer/Relocate: 9-1-99 p. 142

KEOKEO N. KOHALA: 9-7-99 Relocate  
Maeunilani

100 sheets • 200 pages • 100 hojas  
9 3/4 x 7 1/2 in / 24.7 x 19.0 cm  
wide ruled / réglage large /  
© 1995 The Mead Corporation, Dayton, Ohio, U.S.A.  
Made in U.S.A. / Fabriqué aux États-Unis / Made in U.S.A.  
9balazs@hnlab.nmfs.hawaii.edu

### 1998-1999

GEORGE BALAZS (808) 983-5793

KIHOLLO 10-25-99 p. 113

KIHOLLO 12-15-99

T. P.

3 OF 3



HONOLULU LABORATORY  
Kiholo NOAA, NMFS  
"14" 2570 Dole Street  
Honolulu, HI 96822-2396  
Released 02/07/2009

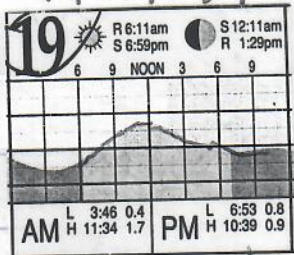
KIHOLLO KAKO

HONOLULU  
KAKO 10-5-99 p. 158



140

AUGUST



99

Thursday

19 Aug 99 Depart Flight 82 6:15 AM

AISAKI/BATI BASAGA, KIRTIS LUKE, Noah Idechong,  
 MUTSINT IDECHONG, LEVI IDECHONG, Nancy Hoffmann,  
 DIANA YUNIPINGO, ~~SWAN~~ KAMEI, Allison  
 MIGUEL DONOSO, Shaun Murakawa, They're work  
 For KONA - SAW JOHN CRAVEN as the plane.

Rented 2 MINI VANS - AVIS #79 day.  
 Drove to Mauna Lani Bay, spotted at  
 Kinohi overlook. Mami Schumaker,  
 Marty Weisner, Marc Rice, George and  
 Sandy Watson + Chris Kopra and  
 several other students.

Report of 2 turtles being fed by tourists at  
 M2 Hotel beach. Sign put up saying  
 don't feed the turtles.

Set 200' net across inlet.  
 Caught two turtles - the only ones in there



SAT. Attach  
KFF  
N. Shore?  
SLP

FRANCIS Ruffles = "Grape Vineyard" site <sup>check w/ Marc</sup> (41)

8-1999 Set out on Suva (T.W. Marc + 2 students) and everyone else snorkeling. I caught one turtle, not very alert or vigorous. No others seen. But others saw 2 and they saw one small Hawksbill.

Plan #132

KIHOLO 12-15-99

12/15/99 - Wednesday Kiholo Basking Study

Basking Recap  
Sandy's turtle - Q 698, Q 697, Q 696  
CCL = 47.5 L 27 lbs. RH  
CCW = 41.0  
Moto too! #50 2nd lot L & R  
Carapace Temp - 35°C  
T<sub>b</sub> = 30.5°C 20cm deep LH

new  
41351C185D

new  
4136013A4D

12/15/99 BASKING T<sub>b</sub> = 29.3°C 20cm deep  
RH LFL R489, N720, N719  
WT = 52 lbs -  
CCL = 60  
CCW = 54.5  
Carapace Temp 32.2  
after 15-20 min.  
Moto #51 2nd lot L & R  
new LH  
new RH  
41356F647B  
new  
41371D4C34

12/15/99 BASKING Tag -  
WT = 90 lbs. 9°C 30cm deep  
T<sub>b</sub> 26.9°C  
CCL = 73  
CCW = 64.5  
off hand - shell flapper, 1/2 covered & healed  
Moto #52 2nd lot L & R  
new  
41362A546C

KFF  
T<sub>b</sub> 26.9°C  
RH cut flapper

12/15/99 BASKING No PIT -  
WT = 100 lbs LH  
CCL = 74  
CCW = 70  
Moto #53 2nd lot L & R  
new  
4135735726

12/15/99 TAG T<sub>b</sub> = 29.4°C 20cm deep  
RH  
new  
4136047678

Ugou  
Ugou

Kiholo  
Ugou

Kiholo  
Lagoon

Ugou  
Ugou

Kiholo  
Lagoon

Ugou  
Ugou

Kiholo  
Lagoon

Ugou  
Ugou



142

Sept. 1999

KIHOTO

MOWNA CAVE  
BONNET CLUB  
Relocate  
1 Sept. 99 Wednesday  
Aroha

WEDNESDAY											
1											
6	9	NOON	3	6	9						
R 6:15am S 6:48pm						S 11:49am R 11:28pm					
L 1:44 0.2 H 8:57 1.8						L 3:35 0.8 H 8:15 1.1					

Depart 6:15am FL 82

TO KONA  
with Causey Wittlow

Beatch Club  
concession  
Towel  
need

Cherina Pule  
PO BOX 482  
HAWAII, HI 96719

HAS  
18 mo baby  
works for  
Mr. Riddler,  
Sells fish  
food

Germany  
HPS student

LISA DIERMEIER

Logbook # 224564

→ Kona Ahae - depth log  
Retrieved - given to me 9/1/99 by Mtec

Drove to Maunaloa junction -

Causey went with Marc, Sandy Watson,  
CHRIS KOPRA and German student LISA

DIERMEIER TO Kihoto to commence  
protocols and observations of basking turtles.

I drove to Beach Club (Maunaloa)

met Marty Weisner and watched by  
2 biting (former ML released) turtles.

are seen ~ 10:15am, but Marty  
swam after it and it left.

Tide is high, swell is up. Saw 2-3 turtles



BILL  
ACYE  
Hotel  
new  
paragly

331 days

need - other #  
newly deployed 131/ lagoon 9/1/99  
MARC IN

① 266015 deep - west end  
new deploy lagoon ~12' silt bottom  
9/1/99

\* Found 2002  
by tourist  
location found  
unknown  
see p. 5

② new deployed deep ~12' East end  
lagoon silt bottom  
9/1/99

wednesday  
9-19

in Keawehi inlet (feeding).  
Walked to Make Ho by ML Hotel, saw  
small goldish turtle biting surface  
drift close to shore - RFF has distal  
tag. Recent (July 4, 99) release?

Departed ML at 1030am, left  
Marty to watch for turtles. TO  
Kiholo, strong wind blowing on shore.  
Search w/ Sandy Watson's metal detector  
for data tags in large pad - not found.  
I walked to lagoon, MARC others  
took Achilles. They saw 3 turtles  
basking along peninsula side of  
lagoon - when scared them  
into water. We saw 9 snorkelers  
biking in. Found 4 turtles on



144

Date: Fri, 20 Aug 1999 07:28:15 -1000  
From: mrice@hpa.edu  
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Thanks

George,

Thank you for a great day. We didn't catch too many turtles but we made lot of friends. Your group, as usual, was wonderful. It is a real treat and a wonderful experience for my students (and me) to meet such great people from such distant places.

As usual, you and I didn't get a chance to sit down and chat. I will try and work out some sort of schedule proposal for trips this year and see when you are available. It seems, after our comments yesterday about how long it had been since we had been to M Lani, that a more organized schedule of visits would be appropriate... I will try propose some revisits to Honaunau, Puako, Hilton, and a trip to Honokohau.

It was interesting talking to Marty and finding out that the "biting" has been a problem off and on since last Xmas. It will be interesting to see if the little critters we translocated come back. My money is on their return fairly quickly!

More later,  
Marc

At 09:55 PM 8/18/99 -1000, you wrote:

\*\*\*\*\*  
\* George H. Balazs, Leader \*  
\* Marine Turtle Research Program \*  
\* National Marine Fisheries Service \*  
\* SWFSC Honolulu Laboratory \*  
\* 2570 Dole Street \*  
\* Honolulu, Hawaii 96822-2396 USA \*  
\* Tel:(808) 983-5733 \*  
\* Fax:(808) 983-2902 \*  
\* gbalazs@honlab.nmfs.hawaii.edu \*  
\*\*\*\*\*

>----- Forwarded message -----

>Date: Thu, 19 Aug 1999 15:56:57 +0930  
>From: Dhimurru Land Management Aboriginal Corporation <dhimurru@octa4.net.au>  
>To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
>Subject: Re: Djawa's Birthday

>Hi George,

>Just a quick email to wish Djawa a happy birthday for tomorrow (Friday 19)  
>from his Dhimurru co-workers.

>Hope all is going well.

>Regards

>Kelvin Leitch

Marc R. Rice  
Assistant Headmaster  
Director, Cooperative Sea Turtle Research Program

9/1/99 Palwehac - but snorkelers  
Wed. game closed and caused 2 to be  
into water. Captured small one very  
dry fishing p. 80 photos.

See p. 146



### A day's work

1. Arrive at the basking site early in the morning (8.00 - 9.00am).
2. If there is a turtle ashore, begin measurements right away.
3. If there is nothing ashore, we can record the time that the first turtle does come ashore.
4. The following suite of measurements is made every hour:

<u>Turtle</u>	<u>Environment</u>
<ul style="list-style-type: none"><li>• Orientation</li><li>• Carapace temperature</li><li>• (if radiometer available)</li><li>• Breath-hold duration</li><li>• Wet or dry carapace?</li><li>• White or dark carapace?</li><li>• If white, % white or dark</li></ul>	<ul style="list-style-type: none"><li>Wind direction</li><li>Wind velocity</li> <li>Magnetic compass bearing of sun</li><li>Sun's altitude</li><li>Air temperature</li><li>Globe thermometer temp.</li><li>Beach surface temp.</li><li>% cloud cover</li></ul>

5. While the above measurements are being made, a map could also be kept of the other basking turtles — a rough idea of their orientation, time of arrival, time of departure.
6. A single measurement of the angle of incline of the beach should be made.
7. A single measurement of the dimensions of the turtle should be made.
8. These measurements are continued until the turtle leaves or until the sun is low (evening).

A similar study can be made of basking turtles, in another area, that do not dry out "white" ie. are not covered with silt.

### Rectal/Carapace Temperatures

"Spot" measurements of rectal and/or carapace temperatures can be made, on brief visits, preferably late morning or afternoon.

### Silt samples

Samples of silt should be brought back to Honolulu for two types of study:

1. Measure the reflectance of the silt to solar radiation in a reflectance spectrophotometer
2. The silt can be applied to a carapace at the Honolulu Lab. and the temperature of the carapace measured after exposure to solar radiation. The temperature can be compared with that of the carapace not covered with silt.



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Date: Sat, 24 Jul 1999 23:00:31 -1000  
From: Judy Edwards <bodhi@maui.net>  
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Re: turtle tags

Friends were at mm 80 HWY N. of Kona, hiked in on the lava fields from the road to the coast.

Small inlet--15ft. by 150ft. or so,  
dead turtle, possible hawksbill as det. by the carapace, juvenile,  
orange/red tag on the back left flipper, number obscured but poss. 89-41  
or 89-91  
date: July 23  
decomposing

Liza Molina  
Kim Gitzel

-----  
879-8360

Date: Mon, 26 Jul 1999 15:00:07 -1000  
From: mrice@hpa.edu  
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Kiholo Signs

*pedue*

I finally got the sign to Billy and Jenni Mitchell (Hind) so that they can put it up at the Kiholo property. They were very happy to have received the material that you sent and were also happy to get the sign. They actually wanted two, but I don't have any more in English (and there aren't many Japanese visitors down there). They, in turn, wrote a \$200 check as a donation to the turtle program.  
Marc

At 01:25 PM 7/26/99 -1000, you wrote:  
>Great News, Marc, your being able to come down to Puako. Yes, I set up  
>requested Ag stuff, we had some problems big delays in getting the "seal"  
>to ship live ones. All ok now, I think, as per the letter instructions.  
>  
>Will phone you later. Geo.  
>

*9/1/99 Wednesday  
Wednesday ~ 145pm Call from Marty.  
both turtles showed up and captured.  
I drove there and took them to Kiholo -  
page 82-83 worked up and released 3 PM.*

*Depart FL 283 ~ 445pm*



3/50  
Seep # 143

all 331 days, 1 hour sampling

(841)

9/1/99 Wednesday  
Retrieved by MKC taken  
to Honolulu for download  
# 144070 West end  
Kiholo Lagoon 12' silt

Retrieved # 122325 East end  
Kiholo Lagoon 12' silt

~~Retrieved~~ # 224564 Kaulaie  
Harbor  
8' deep

Deployed Kaulaie new  
# 181185

Met at M.L. Bay Club 9/1/99 - his wife had been bitten on foot, skin

RALPH CLUMECK  
2 BELCREST  
LAGUNA NIGUEL, CA 92677  
(949) 248-5331

not broken. 9 year old son  
COLBY scared to go in  
water after that, so they  
have been going to  
Mauna Kea Beach Hotel to  
swim. Have been  
renting Condo at ML Resort

for 20 years coming for vacation. He was relieved  
to hear turtles are being moved. Had heard I  
was coming.



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# Needs

- Rigid sign for boat / trail entrance
- Note to Hiking Hawaii Trails
- More permanent Biking-focused sign trail entrance etc.
- Data sheet
- Small epoxy work at basking sites
- Computer Colipier!
- Field sheet
- Night trips
- Aerial photos from helicopter

signs on peninsula

9/21/99  
MAEC

6 of 8 recaptures were M.L. releases post year (were 1999)  
 National Marine Fisheries Service  
 2570 Dole Street  
 Honolulu Hawaii 96822-2296  
 Something strange happened here 8/9/99

Keawa Nui  
 8-11-99  
 Recaptures  
 8 (of 9 caught)  
 8/19/99

Historical information for turtle 11004

### Tag information--

Tag Number	Date Tagged	Tag Type	Tag Position
11004	07/03/91	1681	R23
3E482A1B	08/19/99	PIT	LHF
7F5C004C	06/15/93	PIT	PIT
J18	06/15/93	1681	LFL
K95	09/24/93	1681	RHF

one of the bitters relocated 9/1/99 to hihole

### Historical information--

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Straight Length	Since Last Encounter				Overall			
						Interval Month	Year	Growth-rates cm/mon	cm/yr	Interval Month	Year	Growth-rates cm/mon	cm/yr
07/03/91	Near Shore	Hawaii, Mauna Lani, Captivity	0	-	...	...	...	...	...	...	...	...	...
07/04/91	Near Shore	Hawaii, Mauna Lani, Captivity	0	-	26.7	...	...	...	...	...	...	...	...
07/04/92	Near Shore	Hawaii, Mauna Lani, Captivity	0	-	33.8	12	1.0	0.6	7.1	12	1.0	...	...

Engraved #4 9-1-99



Tag information--

Tag Number	Date Tagged	Tag Type	Tag Position
11478	07/15/93	1681	RFL
1C683709	09/23/98	PIT	LHF
2A597061	06/20/94	PIT	PIT
38652A78	09/23/98	PIT	PIT
K966	06/20/94	1681	LFL

one of the biters -  
relocated  
9/1/99 to Kiholo

#3

Historical information--

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Straight Length	Since Last Encounter				Overall			
						Interval Month	Year	Growth-rates cm/mon	cm/yr	Interval Month	Year	Growth-rates cm/mon	cm/yr
07/15/93	Near Shore	Hawaii, Mauna Lani, Captivity	0	-	---	---	---	---	---	---	---	---	---
06/20/94	Near Shore	Hawaii, Mauna Lani, Captivity	0	-	32.9	11	0.9	---	---	11	0.9	---	---
07/04/94	Near Shore	Hawaii, Mauna Lani	0	-	---	---	---	---	---	11	0.9	---	---

Release  
--Continued

Historical information--

2

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Straight Length	Since Last Encounter				Overall			
						Interval Month	Year	Growth-rates cm/mon	cm/yr	Interval Month	Year	Growth-rates cm/mon	cm/yr
11/29/94	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	33.4	4	0.3	---	---	16	1.3	---	---
09/23/98	Near Shore	Hawaii, Keawa Nui Bay	0	-	43.9	45	3.8	0.2	2.8	62	5.2	---	---
08/19/99	Near Shore	Hawaii, Keawa Nui Bay	0	-	44.9	10	0.8	0.1	1.3	73	6.1	---	---

--Continued  
Historical information--

#4

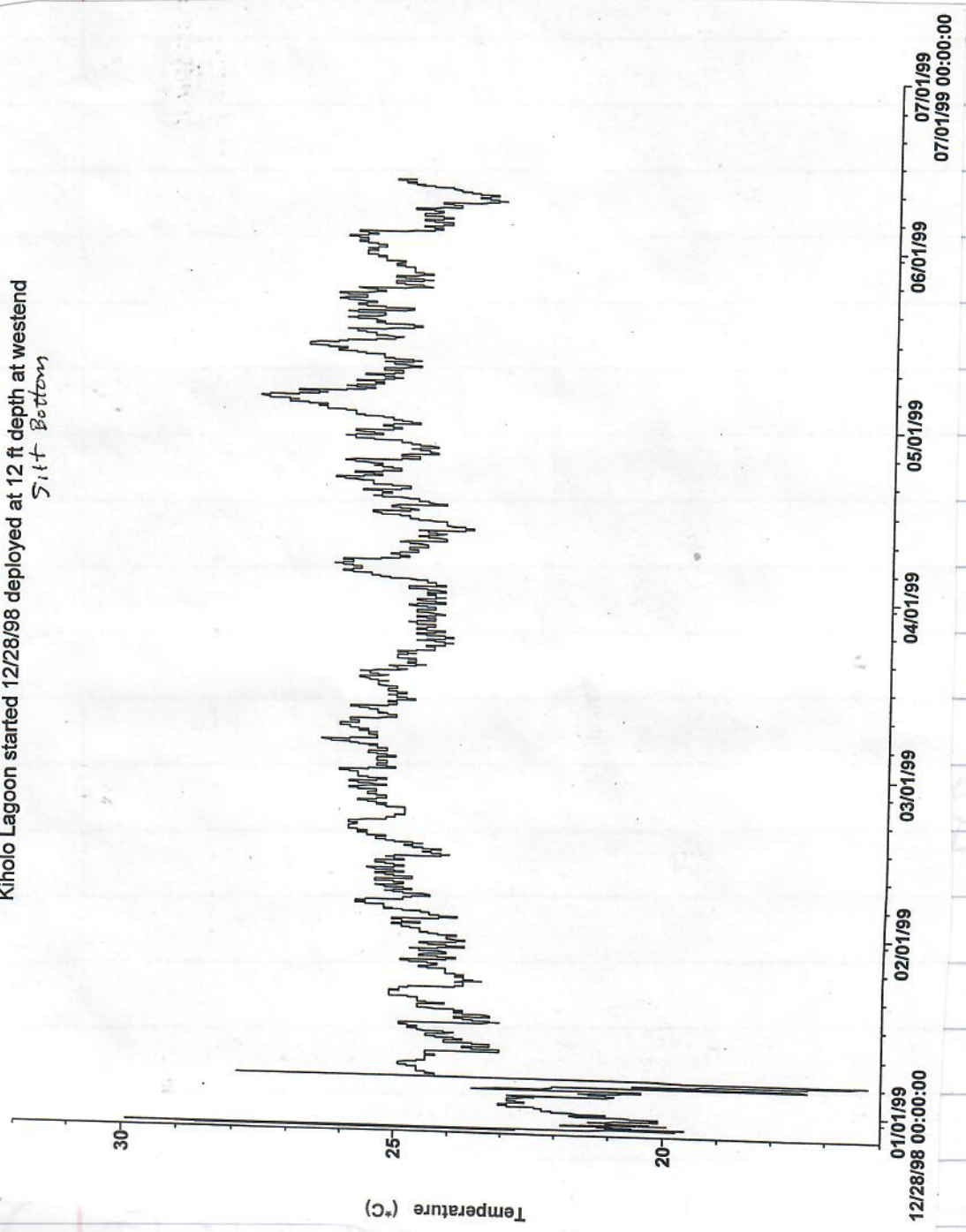
2

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Straight Length	Since Last Encounter				Overall			
						Interval Month	Year	Growth-rates cm/mon	cm/yr	Interval Month	Year	Growth-rates cm/mon	cm/yr
06/15/93	Near Shore	Hawaii, Mauna Lani, Captivity	0	-	41.8	11	0.9	0.7	8.9	23	1.9	---	---
07/04/93	Near Shore	Hawaii, Mauna Lani	0	-	---	---	---	---	---	24	2.0	---	---
09/24/93	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	42.5	2	0.2	---	---	26	2.2	---	---
10/27/97	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	47.1	49	4.1	0.1	1.1	75	6.3	---	---
08/19/99	Near Shore	Hawaii, Keawa Nui Bay	-0	-	48.3	21	1.8	0.1	0.7	97	8.1	---	---

9/1 engraved #3 Moved M.O.L. TO Kiholo.  
Back AT M.O.L. 9/3 A.M.  
Captured by mawty. 9/4 put in pond.



Kiholo Lagoon started 12/28/98 deployed at 12 ft depth at westend  
Silt Bottom

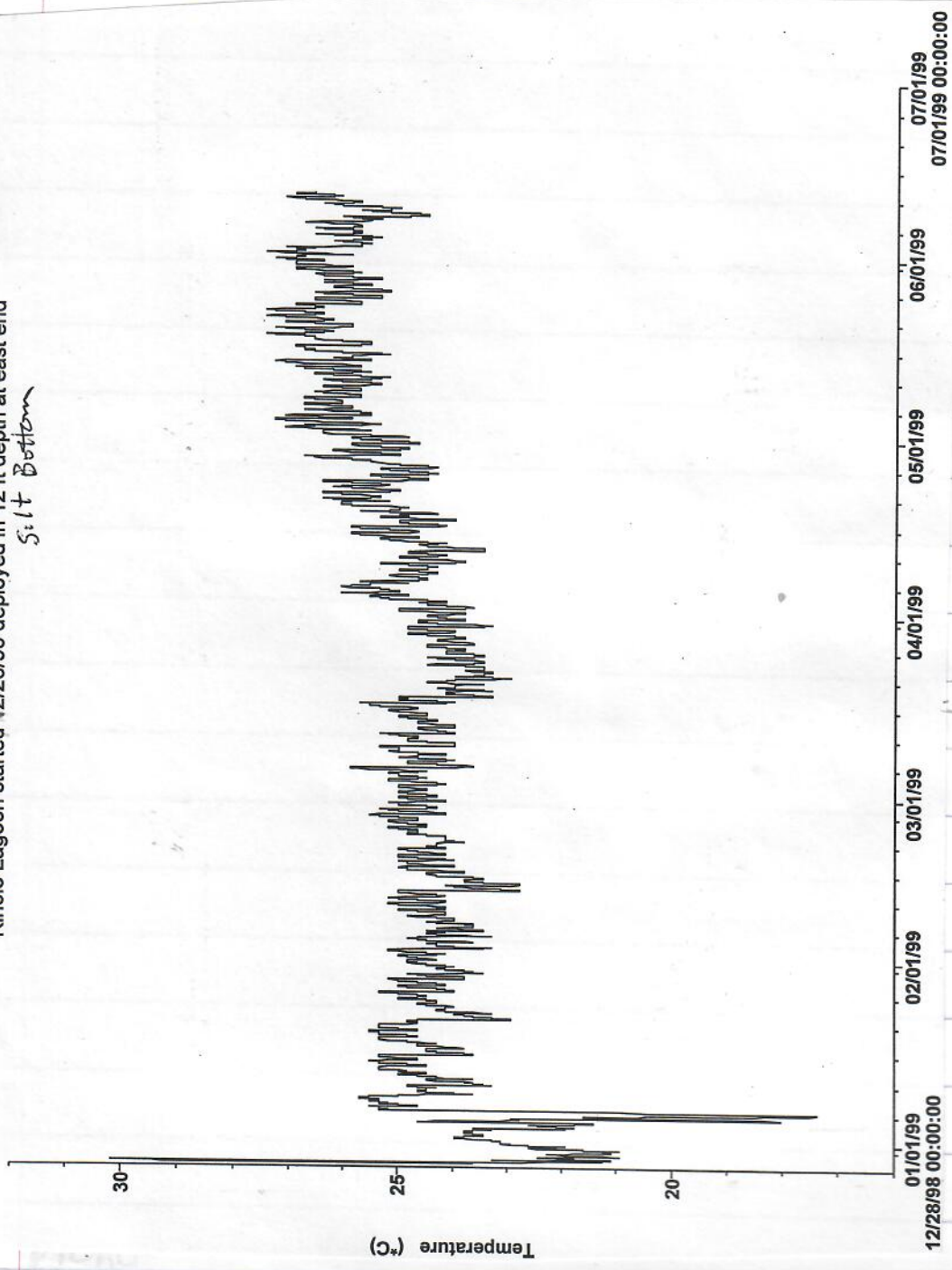




Sept 3, 99  
 KAWAIAKOI ISLAND  
 153

153

Kiholo Lagoon started 12/28/98 deployed in 12 ft depth at east end  
 Silt Bottom



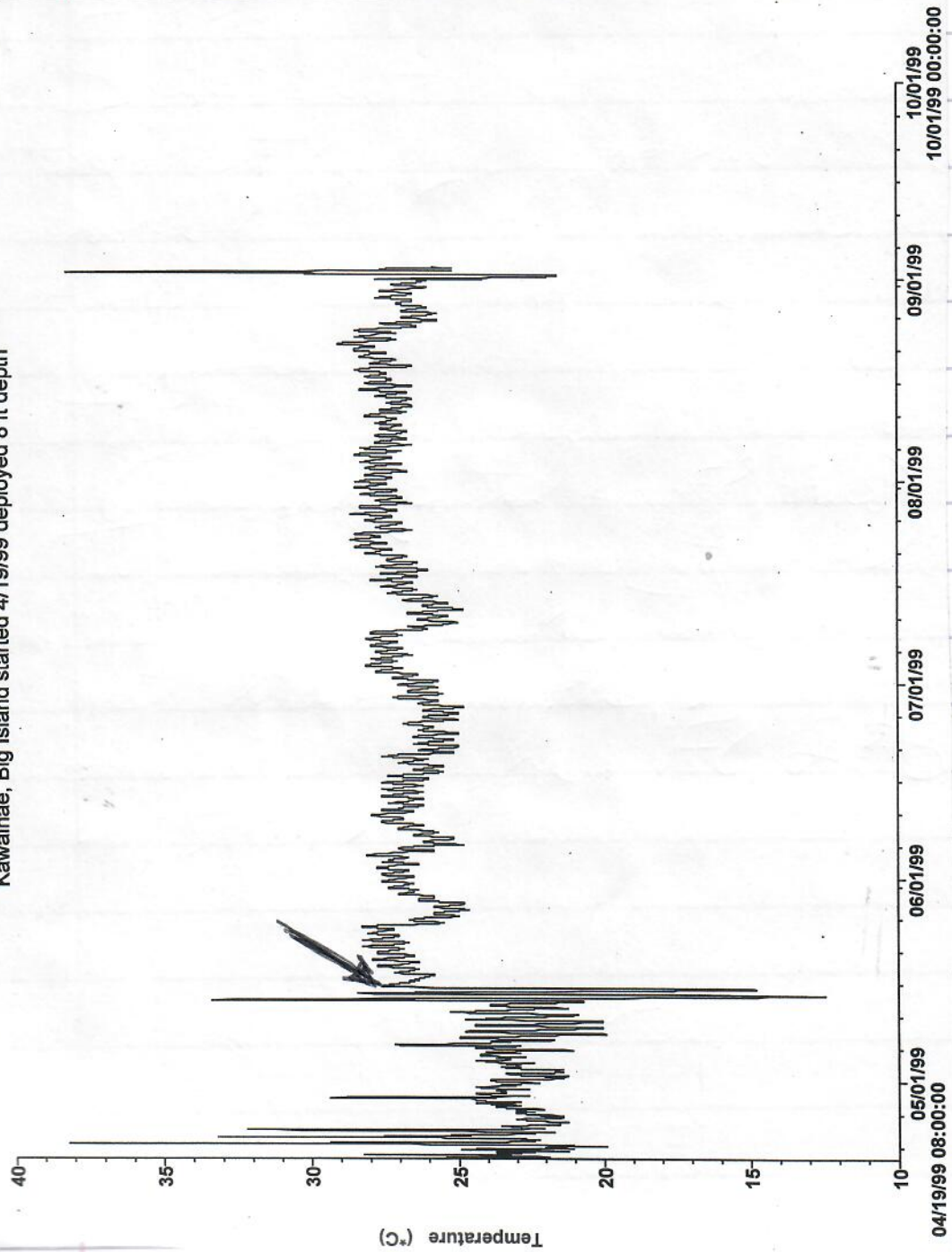
Temperature was approximately 20°C  
 took in water made against rocks  
 & further south in east end



152

Kawaihae MAY 1999 to end of August 99

Kawaihae, Big Island started 4/19/99 deployed 8 ft depth





Sept 7, 99  
TUESDAY

7	R 6:16am		R 4:13am			
	S 6:42pm		S 5:30pm			
	6	9	NOON	3	6	9
AM	H 2:22	L 1.2	PM	H 2:46	L 2.3	
	L 7:50	0.2		L 9:36	0.2	

153

engraved

#3 = K 966  
+11478

Sept. 99 Ft. 90 Aroha to KONA -  
 Tuesday to relocate for the second time,  
 Engraved #3 that I had taken from M.L.  
 9/1/99 to Kiholo, but was back at  
 M.L. beach club 9/3/99 am, I had Marty  
 catch it 9/4 Sat. and place it into a pond  
 w/algae. Picked up from Marty at M.L. at 12:15 PM.

MARC'S new video camera.  
 SONY TAKE STILL DIGITALS 1.5K  
 Digital Video  
 DCR-TRV-10 NTSC

3:20 pm Released Keokeo Park  
 ccl 48 am Data log See p 86 Photo of Marc releasing  
 turtle in protected inlet where boats  
 can be launched from trailer (but no  
 cement ramp present).  
 Picked up Marc at Kawahae - Kohala Divers shop.  
 prior to that I parked at seawall, lots  
 of trash in water, waves against rocks.  
 5 turtles seen in ~ 5 minutes.



(154)

M.L. →  
Tuesday  
9/7/99

Keolu Park Relocate 1976  
"Bites of people"

MAP  
See  
p. 156

Drove coast road to Pololu  
lookout/valley. ~~Take~~ print photos -  
area where 4801 hawkbill lives.  
After release drove back down mountain  
road, to Marc's home - picked up  
Toby fish he speared and frozen  
Puka (control for FP virus).  
Two photos of me with Marc's  
two boy golden retrievers, 2 and 5 y.o.  
Met Marc's mother.  
Depart Aloha FL, 283  
455pm.

**EXPLORING WAIMEA, WAIKOLOA AND KOHALA** will take visitors through lush ranchland and along sunny coastlines with some of the most beautiful scenery anywhere.

**BLUE HAWAIIAN HELICOPTERS (961-5600)** Choosing your helicopter tour company is not like choosing any other activity on your vacation—you want only the best: a company with a fleet of new, float-equipped, million-dollar ASTARs, a flawless 14-year safety record and the finest military-trained pilots anywhere; a company that's the first in the entire United States to be certified under the national TOPS program for tour helicopter safety; a company with an exclusive digital quality video system that records an optional video of you on your flight, Bose noise-canceling headsets with stereo CD music and, for three years running, the prestigious **Five-Star Diamond Award** for outstanding quality, service and safety from the **American Academy of Hospitality Sciences**. In Hawaii, there's only one company like that—Blue Hawaiian. Departures from Hilo and Waikoloa. (Map 3, D-2; Map 5, C-7)

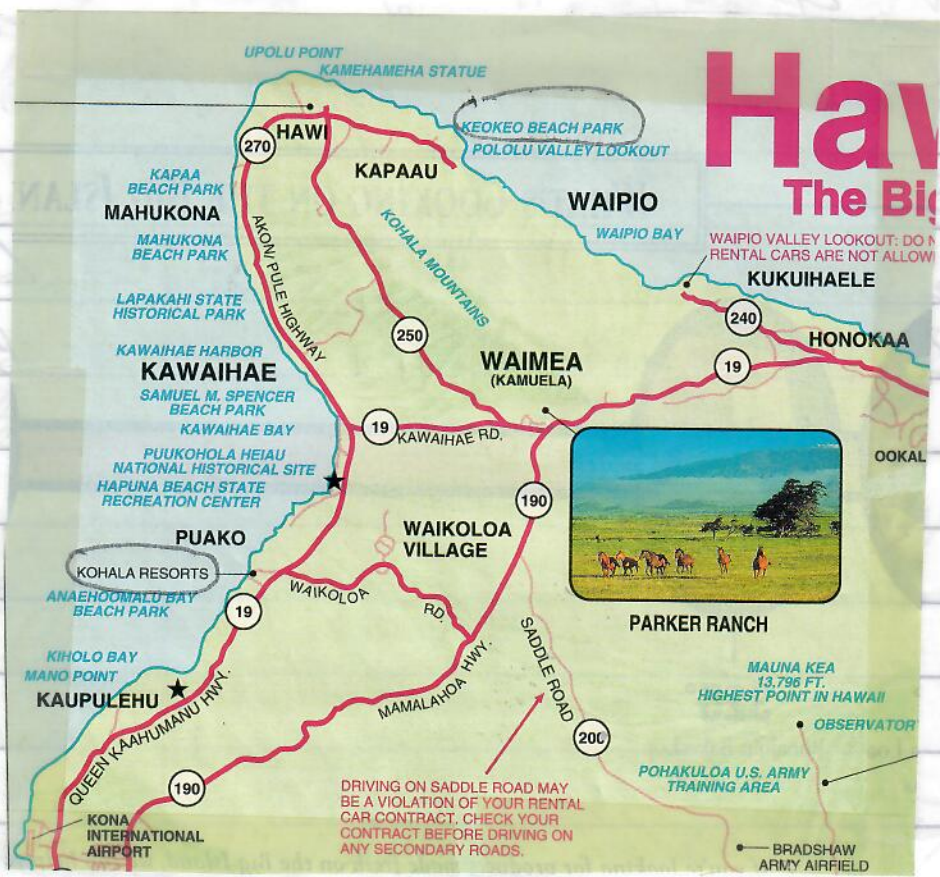


Need

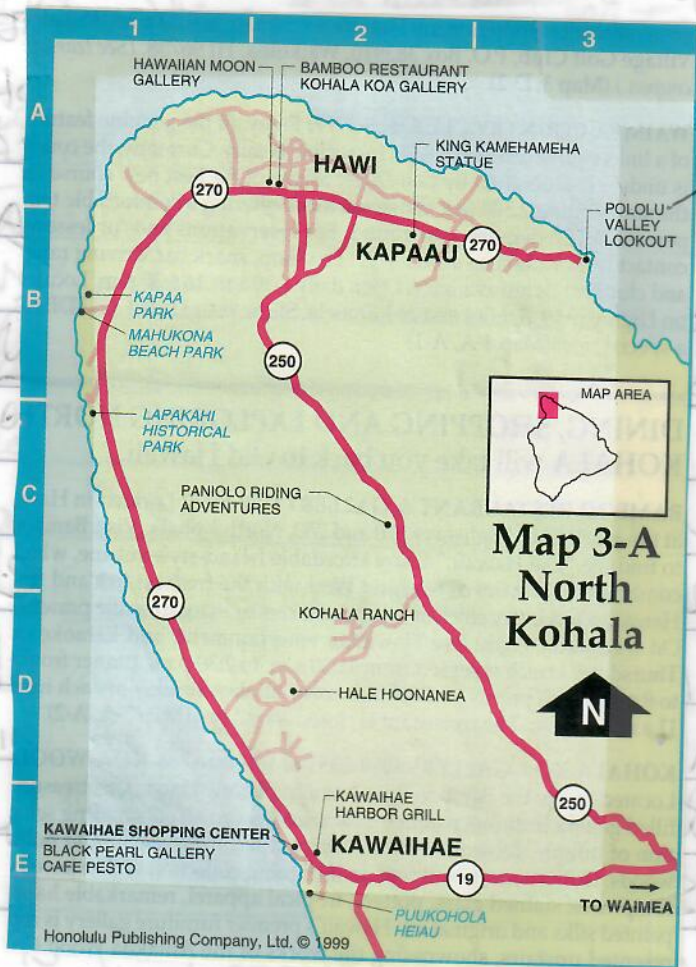
121

- ① "KAPU" sign <sup>2</sup> "KAPU HOW" hoholo
- ② Sony Digital Video
- ③ Send more Vices ANNA & Lena
- ④ Call Danny Ahka - discuss Biting Tuttes
- ⑤ Call helicopte







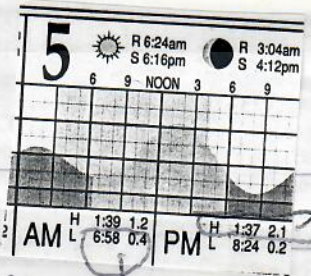


Handwritten notes on the right side of the page, including a circled number '8' at the top right and various illegible scribbles and lines.

Extensive handwritten notes covering the bottom half of the page, including a large heading 'Aristotelian car - no lateral' and several paragraphs of illegible cursive text.



October 99



D-HA

HISTORICAL NATIONAL PARK

STAN BOND Resource Management

10-5-99 Aloha  
FL 02 6:15 AM  
Tuesday Dave, Shawn & me.

Objectives:

- 1) Sample Turtles at A "new" <sup>shore-based</sup> study site 329-311
- 2) Kona Hotel "lagoon" Royal Kona Resort near Huggos - 75-5852 Alii Drive 96742  
Head security - Martin Hudson / <sup>Security</sup> Bernard Garcia
- 3) Health Status
- 4) Relative abundance sizes
- 5) Tags of other earlier tagging.

DON'T HAVE TIME

Avis Rental Car - to Kaloa - met Stan/Mar Watsons 13 students, Harbor entrance.

Low tide - rocks/algae all bare exposed. Small Fish Trap enclosure - turtles inside. Good place for temperature logger. Turtle heads seen in area. ~ 60cm turtle dry on sand/rock <sup>FOODING</sup> intertidal. Moved in fall gear including shade covering.



STAN Bond says more turtles along coast than rock fall far end where did we examine "Nesting" Small Turtle? 189

10-5-99 29 AM Decided to use scoop nets - easy to Tuesday capture - probably the easiest of anywhere I've ever hunted. Opportunities for video are excellent. Turtles show little or no fear. Proceeded to work up turtles, and catch (willy hand alone) and work up.

Oahu Release

CONTACT: Marc Rice (HPA) DATE: 11-02-99 LOCATION: Kiholo, Hawaii

PERSON RECORDING DATA: SME / DMR

DESCRIPTIVE REMARKS: photos of released hawaii hui from car beach parking 5:20pm 12/2/99 GHB's swim out strong & fast. No problem diving.

10-25-99 11:14 motorboat at que left L & R 5:11 very visible

TUMOR SCORE:  0 TAGS: 41357D 6644 SEX: MALE, FEMALE OR UNDETERMINED U

41368153D VB:   DB:  Confronted 35.5 GMB very Calm

STRAIGHT CARAPACE-LENGTH: 36.0 cm WIDTH: 30.2 cm

NOTCH LENGTH: 35.0 cm PPS (Y/N): Y

CURVED CARAPACE LENGTH: 38.5 cm WIDTH: 35.5 cm

HEAD WIDTH: 6.8 cm

TAIL LENGTH: T 7.0 cm C 4.0 cm

RIGHT FRONT FLIPPER WIDTH: 6.0 cm

PLASTRON LENGTH: 30.7 cm

WEIGHT: 16.0 #

SAMPLES COLLECTED: Examined

able at KRT - Sunny fine, no buoying, plastron very robust appearance

"big" legs for food when people are by tank.

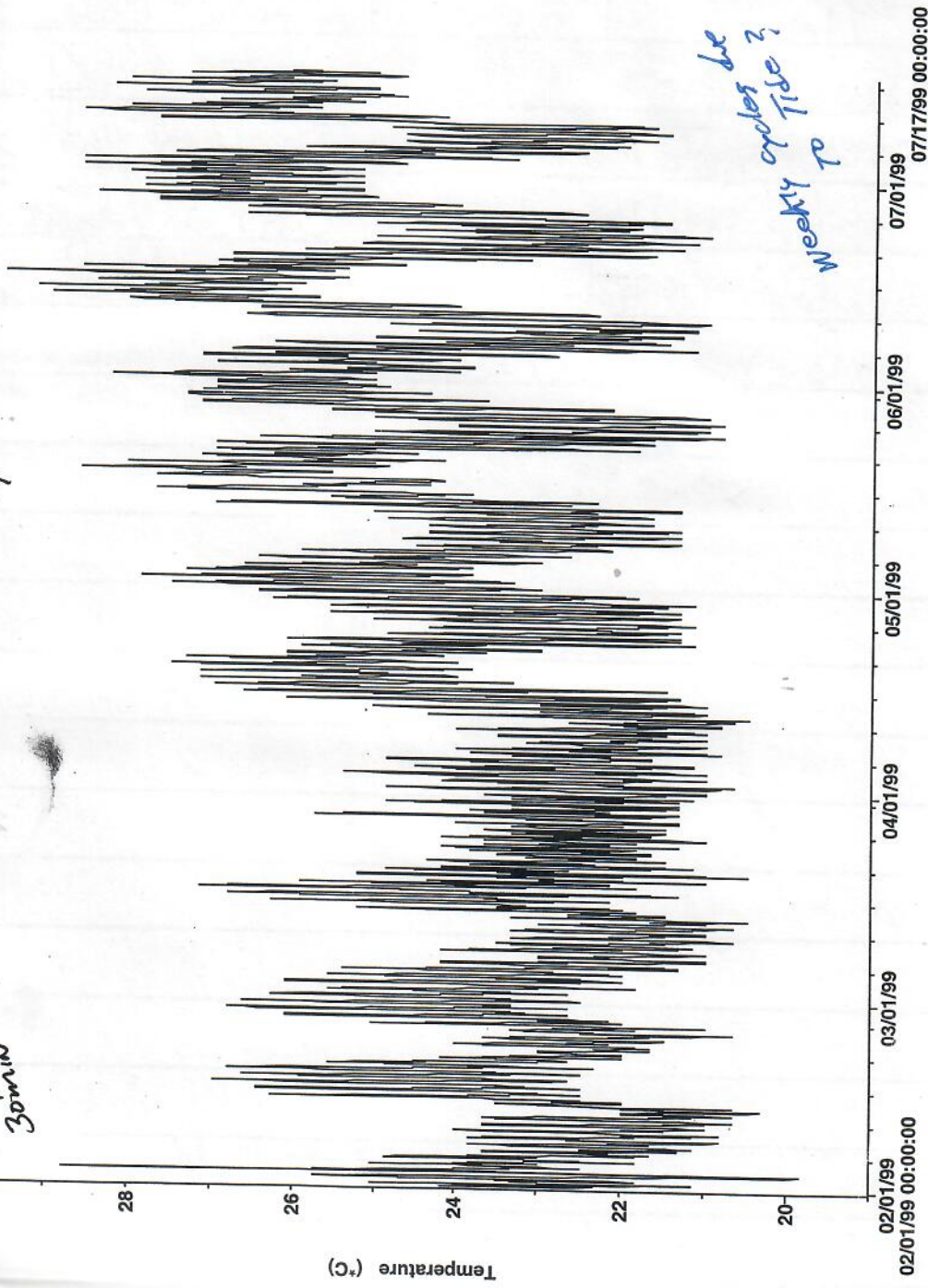
See PAGE 32

6:30 PM Depart Aloha



Temperature  
logged  
every  
30min

Kiholo inner fishpond, S/N 0498 started 2/1/99 recording for 165 days  
Ending = 7/17/99  
Removed and replaced 10-25-99



*[Faint handwritten notes at the top of the page, including "Kiholo inner fishpond" and "S/N 0498"]*

*[Faint handwritten notes at the bottom of the page, including "Kiholo inner fishpond" and "S/N 0498"]*



Date: Wed, 03 Nov 1999 10:09:56 -1000  
From: Marc Rice <mrice@hpa.edu>  
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Kiholo Trip

[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]

George,

Just a quick note to let you know that we had a very successful trip on Monday and Tuesday. The numbered turtles were moving in and out of the pond as well as occupying the lagoon. Three of the numbered turtles were seen basking. The time from 1200 hours to 1830 hours was a very busy basking time.. there were as many as 17 animals out at one time. We monitored them all until it got dark and 13 of them were still out after the sun had gone down... The night before we found 4 of them still basking at 2100 hours. All of them, I believe, had initiated basking while it was still light but I can't be sure. It seems that when the wind is down, they remain out of the water. Kris and I will put the data together in summary form for you as soon as possible.

Likewise with the pond info.

Thanks for helping with the little turtle. The kids (Katie and Jessica) who were down there with me are very anxious to know how the turtle fares so, if you can, please let us know how things go.

Hope the trip to Maui was successful.

Date: Wed, 03 Nov 1999 14:07:17 -1000  
From: Marc Rice <mrice@hpa.edu>  
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Re: fax

Got the fax... thanks.

I have one very large carrier. I sent the smallest one I had with Number 14.

I just got a call from Aloha airlines that the carrier is back over here. In total then, I have two carriers.

Katie looked over the abstract and thinks it is fine... she noted, as you suspected she would, that it was your abstract and not hers. She would like to work collaboratively in the future.. I think she understands your dilemma. She does take suggestions very well, but does want to play a major role in this paper, as she should. She was very pleased with the work over the last two days and is already asking when the next trip is. She is a real worker.

Some counts...

Monday afternoon between 1400 and 1830

one turtle out

none in

Monday night Until 0400 Tuesday

none observed- could be a few

Tuesday morning 0500-0703

39 out

1 in

Tuesday morning 0924 to 1714

39 in

5 out

Will show this graphically soon.  
Marc

At 01:00 PM 11/3/99 -1000, you wrote:

>

>get the faxed completed PO ok?

>

>I've been helping Thierry necropsy all a.m. just got back, shawn picked up the turtle and took it to Dr. Morris, that's where at now. She said >turtles was "active."

>

>How many animals carriers do you have there, just that large one (jumbo), >we thought you had a second one, smaller, but not real small?

>Mahalo, Marc!



CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kaleko-Honekohau LHF

15 Scarp net

NEW TAGS:

RHF N630  
LHF K318  
RFL N631  
LFL Q603

TUMOR SCORE

0

OTHER NEW TAGS: FHF

L35

2244

STRAIGHT CARAPACE-LENGTH:

60.8

WIDTH: 47.9

NOTCH LENGTH:

60.8

DB: -

L.O. VB: - L.C.

CURVED CARAPACE LENGTH:

65

WIDTH: 57

HEAD WIDTH:

9.4

SEX:

MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

Yes

TAIL LENGTH: T

12

C

8

RIGHT FRONT FLIPPER WIDTH:

11.7

SAMPLES COLLECTED

Mouth Sample

PLASTRON LENGTH:

49.1

INTD 1070

WEIGHT:

799.62

Fouling

DESCRIPTIVE REMARKS:

white speckle

2244  
white speckle  
2244 interval #.  
plate of tail brushed off

3.6 cc 1g

16 CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kaleko-Honekohau Cardace 3

OLD TAGS:

[Blank]

LHF NEW TAGS:

407A2E0854

TUMOR SCORE

0

RHF OTHER NEW TAGS:

407A364569

STRAIGHT CARAPACE-LENGTH:

68.8

WIDTH: 52.8

NOTCH LENGTH:

68.8

DB:

L.O. VB:

L.C.

CURVED CARAPACE LENGTH:

75

WIDTH: 67

HEAD WIDTH:

10.1

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH: T

14.5

C

10

RIGHT FRONT FLIPPER WIDTH:

12.1

SAMPLES COLLECTED

PLASTRON LENGTH:

54.3

WEIGHT:

95

DESCRIPTIVE REMARKS:

white speckle

4.3 cc 1g

162 From page 10



CAPTURE DATE, LOCATION AND METHOD:

10-5-99

Kaiko - Honokohau

scop net

PERSON RECORDING DATA: Candace

OLD TAGS:

NEW TAG

407A3A612B

LHF  
Insert tag  
DO NOT REUSE

TUMOR SCORE

0

OTHER NEW TAGS

407A397E6D LHF

STRAIGHT CARAPACE-LENGTH: 69.5

WIDTH: 54.5

NOTCH LENGTH: 69.0

DB: -

L.O.

VB: -

L.C.

CURVED CARAPACE LENGTH: 75.5

WIDTH: 67.5

HEAD WIDTH: 9.6

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 15.5

C

9.5

RIGHT FRONT FLIPPER WIDTH: 11.3

SAMPLES COLLECTED

PLASTRON LENGTH: 53.9

WEIGHT: 91

DESCRIPTIVE REMARKS:

white Sploche

4.3 cc 19

407A477F68



~~407A397E6D~~ LHF

Handwritten note: "In head + 100% collected"

CAPTURE DATE, LOCATION AND METHOD:

10-5-99

Kaiko - Honokohau

scop net

PERSON RECORDING DATA: Candace S

OLD TAGS:

NEW TAGS:

407A287B2C

LHF

TUMOR SCORE

0

OTHER NEW TAGS:

JHF

407A51426D

STRAIGHT CARAPACE-LENGTH: 65.4

WIDTH: 51.6

NOTCH LENGTH: 65.2

DB: -

L.O.

VB: -

L.C.

CURVED CARAPACE LENGTH: 70.5

WIDTH: 63.5

HEAD WIDTH: 9.9

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 13.5

C

9

RIGHT FRONT FLIPPER WIDTH: 11.1

SAMPLES COLLECTED

PLASTRON LENGTH: 53.5

WEIGHT: 75

DESCRIPTIVE REMARKS:

white Sploche

4.3 cc 19



(Go get um got it girl gang)

*(Handwritten initials)*

CAPTURE DATE, LOCATION AND METHOD:

19 10-5-99

Kaloko-Honohohau

Hand

PERSON RECORDING DATA: Candace S

OLD TAGS:

RFL J432  
LFL J431  
RHF J434  
LHF J433

TUMOR SCORE

0

NEW TAG

407A35793B



OTHER NEW TAGS

407A4F0836



STRAIGHT CARAPACE-LENGTH: 61.1

WIDTH: 48.7

NOTCH LENGTH: 60.8

DB:

L.O.

VB:

L.C

CURVED CARAPACE LENGTH: 66.5

WIDTH: 59.0

HEAD WIDTH: 9.8

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH: T 12.5

C

8

RIGHT FRONT FLIPPER WIDTH: 10.5

SAMPLES COLLECTED

PLASTRON LENGTH: 50.2

WEIGHT: 67

DESCRIPTIVE REMARKS:

white spocke

36 cc 1g

alga math

CAPTURE DATE, LOCATION AND METHOD:

20 10-5-99

Kaloko-Honohohau

scoop net

PERSON RECORDING DATA: Candace S

OLD TAGS:

[Blank]

TUMOR SCORE

0

NEW TAGS

407A35451A



OTHER NEW TAGS

407A4A2C37



STRAIGHT CARAPACE-LENGTH: 60.4

WIDTH: 40.5

NOTCH LENGTH: 60.4

DB:

L.O.

VB:

L.C

CURVED CARAPACE LENGTH: 64.5

WIDTH: 59.5

HEAD WIDTH: 9.3

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH: T 15.5

C

10

RIGHT FRONT FLIPPER WIDTH: 10.9

SAMPLES COLLECTED

PLASTRON LENGTH: 48.4

WEIGHT: 65

DESCRIPTIVE REMARKS:

white spocke

36 cc 1g



CAPTURE DATE, LOCATION AND METHOD:

10-5-99

Rap Ko-Honokohau

Hand

PERSON RECORDING DATA: Candace S

OLD TAGS:

Empty boxes for old tags

NEW TAGS: R

410B4D1D1E



TUMOR SCORE

0

OTHER NEW TAGS: LHF

410B002032



STRAIGHT CARAPACE-LENGTH:

73.9

WIDTH:

L.O.

DB:

VB:

L.C.

CURVED CARAPACE LENGTH:

78.5

WIDTH:

68.0

HEAD WIDTH:

11.6

SEX: MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

Y

TAIL LENGTH: T

17.5

C

11.5

RIGHT FRONT FLIPPER WIDTH:

13.4

SAMPLES COLLECTED

PLASTRON LENGTH:

59.1

WEIGHT:

111

DESCRIPTIVE REMARKS:

white spots

4.9 19 cc

CAPTURE DATE, LOCATION AND METHOD:

10-5-99

Kalo ko-Honokohau

Hand

PERSON RECORDING DATA: Candace S

OLD TAGS:

Empty boxes for old tags

NEW TAGS: RHF

410C1E2D52



TUMOR SCORE

0

OTHER NEW TAGS: LHF

407A304B6A



STRAIGHT CARAPACE-LENGTH:

60.4

WIDTH:

48.3

NOTCH LENGTH:

60.4

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

66

WIDTH:

58

HEAD WIDTH:

9.3

SEX: MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

Y

TAIL LENGTH: T

B

C

8

RIGHT FRONT FLIPPER WIDTH:

10.7

SAMPLES COLLECTED

PLASTRON LENGTH:

48.4

Blood Sample

WEIGHT:

56

7cc

DESCRIPTIVE REMARKS:

Photo by Rice Student

e

algae in mouth

Moderate emanating of skin look like white body 3.6 cc by Searso. Healing injury to carapace.



166

CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kalofo-Honokohau Hand

PERSON RECORDING DATA: Candace S

OLD TAGS:

Empty boxes for old tags

NEW TAGS:

LHF

TUMOR SCORE

0

OTHER NEW TAGS:

RHF 4119484516

STRAIGHT CARAPACE-LENGTH: 62.8

WIDTH: 50.2

NOTCH LENGTH: 61.9

DB: [ ]

L.O. [ ]

VB: [ ]

L.C. [ ]

CURVED CARAPACE LENGTH: 67.5

WIDTH: 60

HEAD WIDTH: 9.3

SEX: c

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T 13

c

9.5

RIGHT FRONT FLIPPER WIDTH: 11.5

SAMPLES COLLECTED: mouth (tooth) sample

PLASTRON LENGTH: 49.5

WEIGHT: 78

DESCRIPTIVE REMARKS:

white splotch 3.6cc ig PCA

CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kalofo-Honokohau Hand

PERSON RECORDING DATA: Candace S

OLD TAGS:

Empty boxes for old tags

NEW TAGS:

RHF

TUMOR SCORE

0

OTHER NEW TAGS:

LHF 410C033367

STRAIGHT CARAPACE-LENGTH: 47.5

WIDTH: 36.4

NOTCH LENGTH: 47.4

DB: [ ]

L.O. [ ]

VB: [ ]

L.C. [ ]

CURVED CARAPACE LENGTH: 51.0

WIDTH: 44.5

HEAD WIDTH: 7.8

SEX: c

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

y

TAIL LENGTH: T 8.5

c

6.0

RIGHT FRONT FLIPPER WIDTH: 8.5

SAMPLES COLLECTED: [ ]

PLASTRON LENGTH: 38.0

WEIGHT: 34

DESCRIPTIVE REMARKS:

white splotch green filaments in mouth

1.7 cc ig

PCA



CAPTURE DATE, LOCATION AND METHOD:

10-5-99

Kaloko Hanokohau  
Net

PERSON RECORDING DATA: Kira/Candace

NEW TAGS: RHF 410B0D7A08



OTHER NEW TAGS: LNF 410B636B1F



OLD TAGS: [ ] [ ] [ ]

TUMOR SCORE

0

65.4

STRAIGHT CARAPACE-LENGTH:

65.4

WIDTH:

50.9

NOTCH LENGTH:

65.2

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

70.5

WIDTH:

60.5

HEAD WIDTH:

10.1

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T 12

C

8

RIGHT FRONT FLIPPER WIDTH:

11.4

SAMPLES COLLECTED

PLASTRON LENGTH:

51.9

WEIGHT:

81

DESCRIPTIVE REMARKS:

white splotch

Small

fish hook in neck taken out

4.3 cc iq

CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kaloko Hanokohau

PERSON RECORDING DATA: Kira/Candace

hand

NEW TAGS: LHF 40615C4E41



OTHER NEW TAGS: 410B021028



OLD TAGS: [ ] [ ] [ ]

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH:

67.2

WIDTH:

52.0

NOTCH LENGTH:

67.2

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

73.0

WIDTH:

63.5

HEAD WIDTH:

10.3

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T 13

C

9

RIGHT FRONT FLIPPER WIDTH:

11.3

SAMPLES COLLECTED

PLASTRON LENGTH:

53.7

WEIGHT:

94

DESCRIPTIVE REMARKS:

white splotch

4.3 cc Lip  
5th 6th wing left hooked when



88

CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Katoko Honokohau hand

PERSON RECORDING DATA: Candace/Kira

RHF 40615A5F77



NEW TAGS:

LHF 410C260B53



OTHER NEW TAGS:

OLD TAGS:

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH: 46.8

WIDTH: 37.7

NOTCH LENGTH: 46.6

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 50.0

WIDTH: 43.5

HEAD WIDTH: 7.6

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T

9.5

C

6.0

RIGHT FRONT FLIPPER WIDTH: 8.8

SAMPLES COLLECTED:

PLASTRON LENGTH: 37.4

mouth sample

WEIGHT: 33

INTO 10% formalin

DESCRIPTIVE REMARKS:

White splotch 1.7 cc ig

CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kaloko Honokohau Hand

PERSON RECORDING DATA: Kira/Candace

RHF 410C206227



NEW TAGS:

LHF OTHER NEW TAGS:

OLD TAGS:

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH: 55.7

WIDTH: 42.9

NOTCH LENGTH: 55.0

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 59.5

WIDTH: 52.0

HEAD WIDTH: 9.0

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T

11

C

7.5

RIGHT FRONT FLIPPER WIDTH: 10.1

SAMPLES COLLECTED:

PLASTRON LENGTH: 45.0

green filaments in mouth

WEIGHT: 52

3 cc ig - Removed

DESCRIPTIVE REMARKS:

white splotch

Removed

small fishhook (used)



CAPTURE DATE, LOCATION AND METHOD:

10-5-99

Kaloko Honokohau

PERSON RECORDING DATA: Kiray/Candace

hand

OLD TAGS:

LFF 20082616

LH H26

RH B277

RFL Y97

LFL Y96

RHF NEW TAGS:

410B004C14

LHF OTHER NEW TAGS:

410B6C2405

30 OLD TAGS:

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH: 66.9

WIDTH: 53.7

NOTCH LENGTH: 66.5

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 71.5

WIDTH: 66.0

HEAD WIDTH: 10.4

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Yes

TAIL LENGTH: T

12.5

C

9

RIGHT FRONT FLIPPER WIDTH: 11.9

SAMPLES COLLECTED

PLASTRON LENGTH: 52.7

WEIGHT: 80

DESCRIPTIVE REMARKS:

green filament algae in mouth

4.3 cc ig

CAPTURE DATE, LOCATION AND METHOD:

10-5-99 Kaloko Honokohau

PERSON RECORDING DATA: Kiray/Candace

hand

30 OLD TAGS:

TUMOR SCORE

0

LHF NEW TAG

410B092548

RHF OTHER NEW TAGS:

410B615759

STRAIGHT CARAPACE-LENGTH: 70.9

WIDTH: 57.1

NOTCH LENGTH: 70.3

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 77.0

WIDTH: 71.0

HEAD WIDTH: 10.6

SEX:

MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Yes

TAIL LENGTH: T

15.5

C

11

RIGHT FRONT FLIPPER WIDTH: 13.0

SAMPLES COLLECTED

PLASTRON LENGTH: 57.6

WEIGHT: 112

DESCRIPTIVE REMARKS:

4.9 cc ig

169



170

SEA TURTLE STRANDING FORM

DATE: 11/03/99 MTRP STRANDING ID 11-02-99

CONTACT: Marc Rice (CHPA) DATE: 11-02-99 LOCATION: Kinohi, Hawaii  
PERSON RECORDING DATA: SKJM

DESCRIPTIVE REMARKS: <sup>in Fishpond</sup> Found alive and buoyant <sup>in rear</sup> Retrieved by Marc Rice (CHPA) and held overnight. Shipped to NMFS in Honolulu via Aloha Air Corp. <sup>11/3/99</sup> Plu by SKJM and taken to Makai Animal Clinic and left for observations. <sup>white 14 on 2nd L/R laterals</sup> Pre-plastral scute divided

Originally tagged 10/25/99 scoop netted - PIT tag inserted.

TUMOR SCORE:     
TAGS: OLD FROM 10/25/99  
LHF 413638153D  
RHF 41357D6644

SEX: MALE, FEMALE OR UNDETERMINED  U   
DB:   VB:

STRAIGHT CARAPACE-LENGTH:  cm

WIDTH:  cm

NOTCH LENGTH:  cm

PPS (Y/N):

CURVED CARAPACE LENGTH:  cm

WIDTH:  cm

HEAD WIDTH:  cm

TAIL LENGTH: T  cm C  cm

RIGHT FRONT FLIPPER WIDTH:  cm

SAMPLES COLLECTED:

PLASTRON LENGTH:  cm

WEIGHT:  #



HAWAII  
HONOLULU

5 Oct. 99

571

NAME

Grade

Katie Harrington

11

Kira Lee

11

Candace Sullivan

12

Veronica Morriss

9

Photos

✓ Charmaine Chan

Hong Kong

10

✓ Aileen Souza

Lives across from HPA

10

Ginger Roberts

10

Jessica Sanders

thanks a bunch!!!

10

Mihana Diaz

10

Christine Vana

10

Jill Quaintance

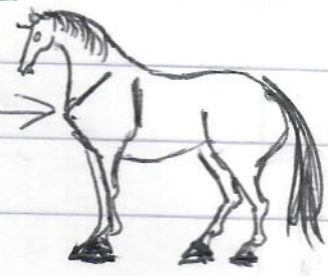
9

Dara Balazs

6 Love ya.

+ George Watson, Marlice, Sandy Watson

SPAN BALL - Resource Management





172

By MARE  
rice All captured  
Scorp net  
230-430  
Aw.A1,

MT #

" must tool #

L&R  
2nd  
capture

10/26/99

Kiholo

Tags for #40  
410 416631E PIT LFF

410 4084510 PIT LFF

New Tags #39

22 lbs

Q723 RHF

Q722 LFF

Q721 RFF

415041617B



41505E113B



New Capture No Tags #1 (39)

Plastron length: 33.6 PPS: Yes tail: 8.3

Str. Carapace: 42.8 Notch: 42.4 ~~str~~ C: 5.7

Str. Width: 34.5

Curved ~~length~~ length: 45.3 curved width: 40.6

~~PPS: No~~ 22 lbs #2 (40)

PPS: No Plastron: 35.2 tail: 8.7 C: 5.6

Str. length: 42.4 Notch: 42.1 str. width: 33

Curved length: 44.5 C. width: 39.0

1533 hrs capture

New TAGS

29 lbs

RH - K689

LHH - healed notch

RFF - K687

LH

41504A5C5D



#3  
MT(41)

RH

415057251F



Plastron: 37.7 PPS: No tail: 9.1 C: 6

Str. length: 46.4 Notch: 46.1 str. width: 37.6

Curved length: 49.8 C. width: 45.1



Remarks/Comment =

1:30 - 2 PM

①

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awaiki Scoop net

PERSON RECORDING DATA: Marga Hicks

OLD TAGS: LFF 2211566876

LHL 40774876H

LFL H30  
RFL H31

RH B954

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

RH B954

STRAIGHT CARAPACE-LENGTH: 80.5

WIDTH: 39.0

NOTCH LENGTH: 50.2

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 55.0

WIDTH: 47.5

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: 40.9

WEIGHT: 39 lb

DESCRIPTIVE REMARKS:

pp 1015 on ~~second~~ #1010db  
Second lateral Left and Right  
paws →

Remarks/Comments =

1:30 - 2 pm

②

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awaiki Scoop net

PERSON RECORDING DATA: Marga Hicks

OLD TAGS:

TUMOR SCORE 0

NEW TAGS: LHL



OTHER NEW TAGS: RHL



STRAIGHT CARAPACE-LENGTH: 41.3

WIDTH: 34.1

NOTCH LENGTH: 40.9

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 44.5

WIDTH: 40.5

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE YES

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH: 34.4

WEIGHT: 23 lbs

DESCRIPTIVE REMARKS:

Liqua mycin I cc Motopool  
~~pp 1015~~ #5 Second lateral



174

2-2:30pm

14

CAPTURE DATE, LOCATION AND METHOD: AWA  
 10-25-99 Monday, Kinoho, scoopnet  
 PERSON RECORDING DATA: Marya Hicks

OLD TAGS: LFF 221A762066 NEW TAGS: REF  LFL   
LH K700  
 TUMOR SCORE 0 OTHER NEW TAGS: RH B964  
LH 41037A0857

STRAIGHT CARAPACE-LENGTH: 53.4 WIDTH: 42.6  
 NOTCH LENGTH: 53.2 DB:  L.O.  VB:  L.O.  
 CURVED CARAPACE LENGTH: 57.5 WIDTH: 52.5

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: 43.9  
 WEIGHT: 50 lbs

DESCRIPTIVE REMARKS: Not top L  
second lateral L & R

1:30-2pm

3

CAPTURE DATE, LOCATION AND METHOD: AWA  
 10-25-99 Monday Kinoho scoopnet  
 PERSON RECORDING DATA: Marya Hicks

OLD TAGS: LFL Q740 NEW TAGS: 4136200D3E  
RFL Q741 LH  
 TUMOR SCORE 0 OTHER NEW TAGS: LH 41037E71A

STRAIGHT CARAPACE-LENGTH: 45.3 WIDTH: 36.5  
 NOTCH LENGTH: 44.8 DB:  L.O.  VB:  L.C.  
 CURVED CARAPACE LENGTH: 48.5 WIDTH: 43.0

HEAD WIDTH:  SEX:  MALE, FEMALE OR UNDETERMINED  
 PPS: YES OR NO OR NE yes  
 TAIL LENGTH: T  C

RIGHT FRONT FLIPPER WIDTH:  SAMPLES COLLECTED:   
 PLASTRON LENGTH: 36.4  
 WEIGHT: 27 lbs

DESCRIPTIVE REMARKS: Not top  
#6 - second lateral L & R



5

2-2:30pm

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo - scoop net

AWAI

PERSON RECORDING DATA: Maya Hicks

OLD TAGS:

Empty boxes for old tags

NEW TAG

41363F336F

LH



TUMOR SCORE

0

OTHER NEW TAGS:

410B1B2777

RH



STRAIGHT CARAPACE-LENGTH:

54.7

WIDTH:

43.1

NOTCH LENGTH:

54.6

L.O.

L.C

DB:

VB:

CURVED CARAPACE LENGTH:

58.5

WIDTH:

52

HEAD WIDTH:

Empty box

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T

13

C

RIGHT FRONT FLIPPER WIDTH:

Empty box

SAMPLES COLLECTED:

PLASTRON LENGTH:

44.1

WEIGHT:

49 lbs

DESCRIPTIVE REMARKS:

NOTOTPOOL

#8 - second lateral L & R

Lg - 2.3cc

6

2-2:30pm

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo scoop net

AWAI

PERSON RECORDING DATA: Maya Hicks

OLD TAGS:

Empty boxes for old tags

NEW TAGS: RFL

LFL

TUMOR SCORE

0

OTHER NEW TAGS:

LFL R433

RFL R434

LFL 4077843

LHL 40772602A

STRAIGHT CARAPACE-LENGTH:

46.9

WIDTH:

36.9

NOTCH LENGTH:

46.4

L.O.

L.C

DB:

VB:

CURVED CARAPACE LENGTH:

50.5

WIDTH:

44

HEAD WIDTH:

Empty box

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T

Empty box

C

RIGHT FRONT FLIPPER WIDTH:

Empty box

SAMPLES COLLECTED:

PLASTRON LENGTH:

38.0

WEIGHT:

3 lbs

DESCRIPTIVE REMARKS:

NOTOTPOOL

#9 - second lateral L & R

7 fresh Baricla scars in plastron

7



2:30-3 pm

(7)

CAPTURE DATE, LOCATION, AND METHOD:

10-25-99 Monday Kiholo scoopnet  
PERSON RECORDING DATA: Marga Hicks

OLD TAGS:

TUMOR SCORE

0

NEW TAGS:

LH

OTHER NEW TAGS: RH

4136314C1C



410B5B4827



STRAIGHT CARAPACE-LENGTH: 44.8

WIDTH: 36.1

NOTCH LENGTH: 44.6

DB: [ ]

L.O. [ ]

VB: [ ]

L.C. [ ]

CURVED CARAPACE LENGTH: 48.0

WIDTH: 41.5

HEAD WIDTH: [ ]

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T [ ]

C [ ]

RIGHT FRONT FLIPPER WIDTH: [ ]

SAMPLES COLLECTED: [ ]

PLASTRON LENGTH: 36.9

WEIGHT: 29 lbs

DESCRIPTIVE REMARKS:

Lg ICC  
carapace # 10 second lateral

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo scoopnet  
PERSON RECORDING DATA: Marga Hicks

OLD TAGS:

LF 411E7D767

RFL H35

LFL H34

LH 7 FFSB2241

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

[ ]

TUMOR SCORE

0

STRAIGHT CARAPACE-LENGTH: 49.9

WIDTH: 38.6

NOTCH LENGTH: 49.6

DB: [ ]

L.O. [ ]

VB: [ ]

L.C. [ ]

CURVED CARAPACE LENGTH: 54.0

WIDTH: 46.0

HEAD WIDTH: [ ]

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

yes

TAIL LENGTH: T [ ]

C [ ]

RIGHT FRONT FLIPPER WIDTH: [ ]

SAMPLES COLLECTED: [ ]

PLASTRON LENGTH: 39.7

WEIGHT: 36.85

DESCRIPTIVE REMARKS:

MOTO TOOL  
carapace # 11 - second lateral

176

2:30-3 pm

(8)



2:30-3pm  
8-2-00 pm

89

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo scoopnet  
PERSON RECORDING DATA: Marya Hicks

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Scoopnet  
PERSON RECORDING DATA: Marya Hicks

OLD TAGS: LH 413B097805  
LFF Q719  
RFF Q718  
LH Q710  
LF 410406022B

OLD TAGS: LH HG64  
REL N694  
LFL N665  
LF 1F430E1A7HG

STRAIGHT CARAPACE-LENGTH: 43.4  
WIDTH: 35.4  
NOTCH LENGTH: 42.9  
L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 46  
WIDTH: 41

STRAIGHT CARAPACE-LENGTH: 52.9  
WIDTH: 43.3  
NOTCH LENGTH: 52.6  
L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 56.5  
WIDTH: 50.5

HEAD WIDTH:   
PPS: YES OR NO OR NE   
TAIL LENGTH: T  C

HEAD WIDTH:   
PPS: YES OR NO OR NE   
TAIL LENGTH: T  C

RIGHT FRONT FLIPPER WIDTH:   
PLASTRON LENGTH: 34.4  
WEIGHT: 22 lbs

RIGHT FRONT FLIPPER WIDTH:   
PLASTRON LENGTH: 43.5  
WEIGHT: 47 lbs

DESCRIPTIVE REMARKS:  
Carved #12 - second lateral p&r  
Not robust

DESCRIPTIVE REMARKS:  
Carved #13 - second lateral p&r

NEW TAGS  
LH

TUMOR SCORE  
0

OTHER NEW TAGS:  
52.9

41363E4E00



3380

8-2-00 pm

89



178

3-330

12

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awa1 scoop net  
PERSON RECORDING DATA: Marya Hicks

OLD TAGS: [ ] [ ] [ ]  
NEW TAG: LH 41357D6644  
TUMOR SCORE: 0  
OTHER NEW TAGS: RH 413638153D

STRAIGHT CARAPACE-LENGTH: 35.8 WIDTH: 29.9  
NOTCH LENGTH: 35.3 DB: [ ] L.O. VB: [ ] L.C.  
CURVED CARAPACE LENGTH: 38 WIDTH: 35

HEAD WIDTH: 6.4 SEX: MALE, FEMALE OR UNDETERMINED  
PPS: YES OR NO OR NE YES  
TAIL LENGTH: T 7.5 C 5

RIGHT FRONT FLIPPER WIDTH: [ ] SAMPLES COLLECTED: [ ]  
PLASTRON LENGTH: 29.6  
WEIGHT: 16 lbs

DESCRIPTIVE REMARKS: Notopoc ~~examined~~ #14 - second lateral L  
Lg. 5cc

Picture of Awa1  
Photos 10/25/99

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awa1 scoop net  
PERSON RECORDING DATA:

OLD TAGS: LF1F706A34B NEW TAGS: LH 41371E0375  
TUMOR SCORE: 0  
OTHER NEW TAGS: RH-Q709 Q710 Q708

STRAIGHT CARAPACE-LENGTH: 44.8 WIDTH: 36.7  
NOTCH LENGTH: 44.2 DB: [ ] L.O. VB: [ ] L.C.  
CURVED CARAPACE LENGTH: 47.5 WIDTH: 43

HEAD WIDTH: [ ] SEX: MALE, FEMALE OR UNDETERMINED  
PPS: YES OR NO OR NE YES  
TAIL LENGTH: T [ ] C [ ]

RIGHT FRONT FLIPPER WIDTH: [ ] SAMPLES COLLECTED: [ ]  
PLASTRON LENGTH: 36.7  
WEIGHT: 28 lbs

DESCRIPTIVE REMARKS: Notopoc ~~examined~~ #15 - second lateral L & R



(13)

3:30 PM

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awa1  
PERSON RECORDING DATA: Marya Hicks

OLD TAGS: K641  
NEW TAG: 41363E7853  
LH  
TUMOR SCORE: 0  
OTHER NEW TAGS: R54, R55, LF-77FSP10B

STRAIGHT CARAPACE-LENGTH: 51.3 WIDTH: 40.7  
NOTCH LENGTH: 51.1 DB: L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 55 WIDTH: 48.5

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

PPS: YES OR NO OR NE U [ ]  
TAIL LENGTH: T [ ] C [ ]

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

PLASTRON LENGTH: 41.3  
WEIGHT: 38 Lbs

DESCRIPTIVE REMARKS: No top L  
# 16 - second lateral L & R  
Lg. 2.3 cc

(14)

3-3:30 PM

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awa1  
PERSON RECORDING DATA: Marya Hicks

OLD TAGS: K643  
NEW TAG: 413E283558  
LH  
TUMOR SCORE: 0  
OTHER NEW TAGS: B220, K644, 77700F3E46

STRAIGHT CARAPACE-LENGTH: 45.9 WIDTH: 37.6  
NOTCH LENGTH: 45.7 DB: L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 49 WIDTH: 44

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

PPS: YES OR NO OR NE YES [ ]  
TAIL LENGTH: T [ ] C [ ]

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

PLASTRON LENGTH: 37.8  
WEIGHT: 33 Lbs

DESCRIPTIVE REMARKS: No top L  
# 17 - second lateral L & R  
Lg. 1.7 cc



CAPTURE DATE, LOCATION AND METHOD:

3-3-30

10-25-99 Monday Kihob AWA1 Scoopnet

PERSON RECORDING DATA:

OLD TAGS: H214 (close to edge) NEW TAGS: 4136071057

TUMOR SCORE: 0 OTHER NEW TAGS: LH

0 OTHER NEW TAGS: RH

STRAIGHT CARAPACE-LENGTH: 48.3 WIDTH: 38.3

NOTCH LENGTH: 48.2 DB:      L.O.:      VB: L.C

CURVED CARAPACE LENGTH: 51.5 WIDTH: 48.5

HEAD WIDTH:      SEX: MALE, FEMALE OR UNDETERMINED     

PPS: YES OR NO OR NE yes

TAIL LENGTH: T      C     

RIGHT FRONT FLIPPER WIDTH:      SAMPLES COLLECTED:     

PLASTRON LENGTH: 37.7

WEIGHT: 33 lbs

DESCRIPTIVE REMARKS: carapace # 18 - second lateral

Lg 1.07 cc

7 centrals 5 laterals

CAPTURE DATE, LOCATION AND METHOD:

3-3-30

10-25-99 Monday Kihob AWA1 Scoopnet

PERSON RECORDING DATA: Cardace S

OLD TAGS: 1F6F230946 NEW TAGS: RFL     

40773E2PH3 LFL     

TUMOR SCORE: 0 OTHER NEW TAGS: V667, V666

STRAIGHT CARAPACE-LENGTH: 50.5 WIDTH: 40.5

NOTCH LENGTH: 50.4 DB:      L.O.:      VB: L.C

CURVED CARAPACE LENGTH: 54.5 WIDTH: 48

HEAD WIDTH:      SEX: MALE, FEMALE OR UNDETERMINED     

PPS: YES OR NO OR NE yes

TAIL LENGTH: T      C     

RIGHT FRONT FLIPPER WIDTH:      SAMPLES COLLECTED:     

PLASTRON LENGTH: 40.2

WEIGHT: 35

DESCRIPTIVE REMARKS: carapace # 14 - second lateral

L&R



17

CAPTURE DATE, LOCATION AND METHOD: 3-3:30

10-25-99 Monday Kibala AWA1 scapnet  
PERSON RECORDING DATA: Candace

LFL  
OLD TAGS: 7F7D0F49SF  
NEW TAGS: 413640242E  
LHL  
TUMOR SCORE: 8787, 4252  
OTHER NEW TAGS: 4253

STRAIGHT CARAPACE-LENGTH: 61.3 WIDTH: 48.5  
NOTCH LENGTH: 61.3 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 67 WIDTH: 58.5  
HEAD WIDTH:

PPS: YES OR NO OR NE  SEX: MALE, FEMALE OR UNDETERMINED  
TAIL LENGTH: T  C

RIGHT FRONT FLIPPER WIDTH:  SAMPLES COLLECTED:   
PLASTRON LENGTH: 48.3  
WEIGHT: 68

DESCRIPTIVE REMARKS:

MOTOPOD  
Shogged # 20 (2nd lateral)  
w 3.6 L&R

18

CAPTURE DATE, LOCATION AND METHOD: 3-3:30

10-25-99 Monday Kibala AWA1 scapnet  
PERSON RECORDING DATA: Candace

LFL  
OLD TAGS: 8925, 8926  
NEW TAGS: RFL  
LFL  
TUMOR SCORE: 8923, 8924  
OTHER NEW TAGS: 221A6D2568  
0 LHL 41037B4771

STRAIGHT CARAPACE-LENGTH: 45.2 WIDTH: 36.6  
NOTCH LENGTH: 45.0 DB: L.O. VB: L.O

CURVED CARAPACE LENGTH: 48 WIDTH: 42  
HEAD WIDTH:

PPS: YES OR NO OR NE Yes SEX: MALE, FEMALE OR UNDETERMINED  
TAIL LENGTH: T  C

RIGHT FRONT FLIPPER WIDTH:  SAMPLES COLLECTED:   
PLASTRON LENGTH: 36.9  
WEIGHT: 28

DESCRIPTIVE REMARKS:

MOTOPOD  
Shogged # 21 (2nd lateral)  
L&R



182

CAPTURE DATE, LOCATION AND METHOD: 3-3:30

10-25-99 monday Kibito AWA1 Scoopnet  
PERSON RECORDING DATA: Candace

OLD TAGS:

NEW TAGS: **LHL** 41362B5B33  
*(lost and healed)*

OTHER NEW TAGS: **RH V808** 413624216D

TUMOR SCORE:  0

STRAIGHT CARAPACE-LENGTH: 49.6 WIDTH: 41.6

NOTCH LENGTH: 49.3 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 43 WIDTH: 47

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE  NO

TAIL LENGTH: T  C

RIGHT FRONT FLIPPER WIDTH:  SAMPLES COLLECTED:

PLASTRON LENGTH: 40.0

WEIGHT: 36

DESCRIPTIVE REMARKS: *No topool*  
*Sanded # 22 (and metal) & f*  
*19.1.7*

CAPTURE DATE, LOCATION AND METHOD: 3-3:30

10-25-99 monday Kibito AWA1 scoop net  
PERSON RECORDING DATA: Candace Marya

OLD TAGS:

NEW TAGS: **B257** 413E167C03  
**LH**

OTHER NEW TAGS: **B256**  
**BBA461CM**  
**IF6AIF345**

TUMOR SCORE:  0

STRAIGHT CARAPACE-LENGTH: 53.0 WIDTH: 40.6

NOTCH LENGTH: 52.8 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 69.5 WIDTH: 50

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: 45 lbs

DESCRIPTIVE REMARKS: *NO TOP TOOL*  
*# 23 (and metal)*  
*L&R*

19

20



CAPTURE DATE, LOCATION AND METHOD: 3-3-30

PERSON RECORDING DATA: Manya

OLD TAGS: V185

NEW TAG

41360E1C48



LH

TUMOR SCORE

0

OTHER NEW TAGS:

413E4E4C24



RH

STRAIGHT CARAPACE-LENGTH: 53.4

WIDTH: 42.5

NOTCH LENGTH: 53.2

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 57.5

WIDTH: 50.5

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT: 46

DESCRIPTIVE REMARKS:

NOT TOB #24 - second lateral Lg: 2.3 cc L & R

CAPTURE DATE, LOCATION AND METHOD: 3-3-30

PERSON RECORDING DATA: Kiholo Awa1 Scoop net

OLD TAGS: 41087E1906

NEW TAGS: RFL

TUMOR SCORE

0

OTHER NEW TAGS:

K439

LFL

K440

STRAIGHT CARAPACE-LENGTH: 52.5

WIDTH: 41.6

NOTCH LENGTH: 52.2

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 55.5

WIDTH: 51.5

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT: 43

DESCRIPTIVE REMARKS:

NOT TOB #25 - 2nd lateral C & R

CAPTURE DATE, LOCATION AND METHOD

Handwritten marks

Handwritten marks

Handwritten mark



184

24  
20

CAPTURE DATE, LOCATION AND METHOD: 3:30-5pm

10-25-99 Monday Kiholo Auahi Scoopnet  
PERSON RECORDING DATA: Marga

OLD TAGS: 4104151B3S NEW TAGS: 413621044F  
 TUMOR SCORE: Q762 OTHER NEW TAGS: RH  
 Q761  
 Q763

STRAIGHT CARAPACE-LENGTH: 45.4 WIDTH: 35.9  
 NOTCH LENGTH: 45.2 DB: L.O. VB: L.C.  
 CURVED CARAPACE LENGTH: 49 WIDTH: 42

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: 30

DESCRIPTIVE REMARKS:  
NOTP Carved # 27 2nd lateral  
Lg: 1.7 cc - R&C

23  
20

CAPTURE DATE, LOCATION AND METHOD: 3:30-5 pm

10-25-99 Monday Kiholo NOTP scoop net  
PERSON RECORDING DATA: Marga

OLD TAGS: 20075A7D02 NEW TAG: 4135745D2B  
 B231 LH  
 B233 OTHER NEW TAGS:  
 B230  
 B232

STRAIGHT CARAPACE-LENGTH: 57.4 WIDTH: 40.9  
 NOTCH LENGTH: 57.2 DB: L.O. VB: L.C.  
 CURVED CARAPACE LENGTH: 55.5 WIDTH: 47

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: 40

DESCRIPTIVE REMARKS:  
NOTP Carved # 26 = 2nd lateral  
Lg: 2.3 cc L&R



(25)

CAPTURE DATE, LOCATION AND METHOD: 3:30-5pm

10-25-99 Monday Kiholo Awa scoop net  
PERSON RECORDING DATA: Marya

OLD TAGS: 410400700  
NEW TAG: 4136120673  
LH  
OTHER NEW TAGS:  
TUMOR SCORE: 0  
Q736  
Q734  
Q735

STRAIGHT CARAPACE-LENGTH: 43.4 WIDTH: 34.4 L.C.  
NOTCH LENGTH: 43.2 DB: L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 46.5 WIDTH: 41.5

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: 26

DESCRIPTIVE REMARKS: Note for Marya #28 2nd lateral L & R

(26)

CAPTURE DATE, LOCATION AND METHOD:

10-25-99 Monday Kiholo Awa scoop net  
PERSON RECORDING DATA: Marya

OLD TAGS: V681  
NEW TAGS: 4136225336  
LH  
OTHER NEW TAGS: 4136432047  
TUMOR SCORE: 0  
V679

STRAIGHT CARAPACE-LENGTH: 45.9 WIDTH: 36.8  
NOTCH LENGTH: 45.6 DB: L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 49 WIDTH: 42.5

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: 29

DESCRIPTIVE REMARKS: Note for Marya #29 2nd lateral L & R



(27)

CAPTURE DATE, LOCATION AND METHOD: 3:30-5pm

10-25-99 Monday Kiholo Awaiki Scoop net  
PERSON RECORDING DATA: Marya

OLD TAGS: 407A42435 1 NEW TAGS: RrL LFL  
407A2D7B72  
TUMOR SCORE: K453 OTHER NEW TAGS:  
K482  
K454 - close to edge

STRAIGHT CARAPACE-LENGTH: 44.0 WIDTH: 35.5  
NOTCH LENGTH: 44.2 DB: L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 48 WIDTH: 42

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: 29

DESCRIPTIVE REMARKS:  
Marya #30 2nd lateral (and lateral) L & R  
No to 7000

(186)

(28)

CAPTURE DATE, LOCATION AND METHOD: 3:30-5pm

10-25-99 Monday Kiholo Awaiki Scoop net  
PERSON RECORDING DATA: Candace

OLD TAGS: LFL: FAF5B1269 NEW TAGS: RFL LFL  
LHL: 4077422D71  
TUMOR SCORE: 0 OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 58 WIDTH: 46.5  
NOTCH LENGTH: 57.8 DB: L.O. VB: L.C.  
CURVED CARAPACE LENGTH: 62 WIDTH: 55.5

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: NOT RECORDED

DESCRIPTIVE REMARKS:  
Marya #33 2nd lateral (and lateral) L & R  
No to 7000



Shawn  
M123 402



From  
P.85

187

Kiholo-  
AWAI

(For all below)

Candace

D-25-99 (Monday)

Scoopnet

TMR Ø

LHL

LFF

new tag

41351A155E

old tags: 1F442E2844



K451, K450  
(missing K449)

straight length: 56.1 width: 45.7 weight: 56 lbs  
notch: 55.6

Curved length: 61 width: 55  
Moto tool ~~cut~~ # 36 L & R  
2 cut.

old tags: 220F783803 new tags: 41363E0225



TMR Ø B977, B978, B976, B975

straight c length: 61.3 width: 48.4 weight: 68 lb  
notch: 60.9

Curved length: 66 width: 60

Moto tool ~~cut~~ # 37 2 cut L & R lg: 3.6

old tags: H237, Y58, Y4 new tags: 410B3D607F



TMR Ø Q290

RHL 410B4A5B36

straight length: 63.9 width: ~~53.7~~ 53.7 weight: 84 lbs  
notch: 63.7



Curved length: 69 width: 62  
Moto tool ~~cut~~ # 38 2 cut L & R lg: 3.6

END



188

only

Rice et al.

10/26/99

AWA1  
Sweep  
net

moto tool #

#4 (42) - new capture no tags 3:30-4 pm k7holo  
(16 Lbs)

curved length: 39.1 c. width 34.5  
Str. length: 37 Notch: 36.3 str. width: 31  
Plastron: 29.9 PPS: No

NEW TAGS

4150576C03

LH



RH

410111192F



#5 (43) ~~3:30-4 pm~~ 3:30-4 pm New TAGS  
No tags

4150491706

LH



41504A2126

RH



39 Lbs PPS: yes Plastron: 40.2 tail: 10.6 C: 7.7  
e. length: ~~50.3~~ 53.8 C width: 47.4  
Str Length: 50.3 Notch: 50.1 str. width: 4

#6 (44) 4 pm

New Tags

LFF - Y245

LH

41011F0412



RFF - Y246

4150412867

RH



RH - N739

Curved <sup>compass</sup> length: 65.5 curved width: 54.5  
Str. length: 61.1 Notch: 60.6 str. width: 45



4-26-99



"He ain't heavy, Father... he's m' brother"  
Mr. Leon A. Thevenin  
104 Puako Beach Dr.  
Kamuela, HI 96743

Dear George:

Turtles - Puako S/Kohala

After an absence of several weeks of basking on Dry Land or Beach; the Turtles are back to almost former behavior.

There is one today on a lava flat about 50' from the shoreline and yesterday there was one about 200' on the outer lava outcropping.

I discussed this habitat after writing you with Marc Rice who gave me a sophisticated guess on this type of temporary behavior.

For several days now turtles have been seen in the ocean in the area fronting our place at Waima point. They are very tame, which may indicate they were grown in captivity.

Perhaps they moved a short distance away for several weeks because they had consumed their favorite edible marine growth. Having seen a new growth they come back. The Ranchers also use this principle in all grazing on Cattle Ranches.

I wanted to let you know my Fees have been resolved for the better. I just hope they did not run away because of all treatment here. The signs are nice but there is never anyone around to enforce them. Some of us are self appointed for the Cause, including me as Puako Mayor.  
Leon A. Thevenin



190

1998

CAPTURE DATE: 8/26-8/27	LOCATION: Kolohe-Huwakaha	METHOD OF CAPTURE: Aio pio - crawled out
PERSON RECORDING DATA: Rice		

OLD TAGS:

RFL = R508  
RH = K953  
LFL healed notch  
RH " "

TUMOR SCORE: 0

PITT TAG #

PITT TAG BARCODE: 4150572331

NEW TAGS: RFL, LFL (New one)

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH: 57.3

NOTCH LENGTH: 57.3

CURVED CARAPACE LENGTH: 60.3

HEAD WIDTH: 8.9

WIDTH: 44.1

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

WIDTH: 52.0

PPS: YES  NO

SEX: MALE  FEMALE  UNDETERMINED

TAIL LENGTH: TOTAL [ ] CLOACAL [ ]

RIGHT FRONT FLURPER WIDTH: [ ]

PLASTRON LENGTH: 46.6

WEIGHT: 57 Lbs.

SAMPLES COLLECTED: [ ]

DESCRIPTIVE REMARKS:

RICK GIMIRKIN  
MARA DVEST

Released at 0719 hrs. didn't swim vigorously, but everything seemed relatively normal.

Had started a body pit & egg chamber

8/26 - animal emerged onto beach at Aio pio between 0600 & 0900 - It remain there until ~ 0700 hrs on 8/27 when it started to crawl back into the water (I apparently disturbed it)



Tag Number Date Tagged Tag Type Tag Position

700F5507 04/21/93 PIT PIT  
 K953 06/17/94 1681 RHF  
 R508 10/08/92 1681 RFL  
 R509 10/08/92 1681 LFL  
 R510 10/08/92 1681 LHF

Historical information--

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Weight	Since Last Encounter				Overall			
						Interval Month	Year	Growth-rates kg/mon	kg/yr	Interval Month	Year	Growth-rates kg/mon	kg/yr
10/08/92	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	39.0	---	---	---	---	---	---	---	---
10/30/92	Near Shore	Hawaii, Keawa Nui Bay	0	-	39.0	---	---	---	---	---	---	---	---
01/15/93	Near Shore	Hawaii, Keawa Nui Bay	0	-	40.0	2	0.2	0.5	5.0	3	0.3	0.3	3.3
04/21/93	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	41.0	3	0.3	0.3	3.3	6	0.5	0.3	4.0
06/15/93	Near Shore	Hawaii, Keawa Nui Bay	0	-	39.0	1	0.1	-2.0	-20.0	8	0.7	0.0	0.0
06/17/94	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	41.0	12	1.0	0.2	2.0	20	1.7	0.1	1.2

Tag information--

Tag Number Date Tagged Tag Type Tag Position

700F5507 04/21/93 PIT PIT  
 K953 06/17/94 1681 RHF  
 R508 10/08/92 1681 RFL  
 R509 10/08/92 1681 LFL  
 R510 10/08/92 1681 LHF

Historical information--

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Straight Length	Since Last Encounter				Overall			
						Interval Month	Year	Growth-rates cm/mon	cm/yr	Interval Month	Year	Growth-rates cm/mon	cm/yr
10/08/92	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	51.7	---	---	---	---	---	---	---	---
10/30/92	Near Shore	Hawaii, Keawa Nui Bay	0	-	51.8	---	---	---	---	---	---	---	---
01/15/93	Near Shore	Hawaii, Keawa Nui Bay	0	-	52.1	2	0.2	0.2	1.5	3	0.3	0.1	1.3
04/21/93	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	52.1	3	0.3	0.0	0.0	6	0.5	0.1	0.1
06/15/93	Near Shore	Hawaii, Keawa Nui Bay	0	-	52.6	1	0.1	0.5	5.0	8	0.7	0.1	1.3
06/17/94	Near Shore	Hawaii, Keawa Nui, South Kohala	0	-	52.9	12	1.0	0.0	0.3	20	1.7	0.1	0.7

Curved length: 57.5 Curved width: 53



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Puako

Summary of green turtles, *Chelonia mydas*, tagged and resighted  
at Puako during the National Marine Fisheries Service/  
Hawaii Preparatory Academy sea turtle research project

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

Study Dates	Total No. Captured	No. Newly Tagged	No. Tag Resightings	Total No. Tagged in Population to Date	Peterson Population Index Estimate*
June 13-14, 1990	6	6	0	6	-
Jan. 16, 1991	11	11	0	17	-
Feb. 6, 1991	10	10	0	27	-
March 21, 1991	8	7	1	34	216
June 10, 1991	5	5	0	39	-
Nov. 20, 1991	2	2	0	41	-
Feb. 6, 1992	5	5	0	46	-
May 12, 1992	8	7	1	53	368
Nov. 12, 1992	8	5	3	58	141
Jan. 27, 1993	9	7	2	65	261
April 7, 1993	2	0	2	65	65
May 4, 1993	11	6	5	71	143
Dec. 22, 1993	19	7	12	78	112
Jan. 26, 1994	18	10	8	88	176
Jan. 18, 1995	30	19	11	107	240
April 10, 1996	19	14	5	121	407
May 17, 1996	20	7	13	128	186
June 6, 1996	18	7	11	135	209
July 11, 1996	14	0	14	135	135
Oct. 17, 1996	10	3	7	138	193
Dec. 5, 1996	1	0	1	138	138
Jan. 21-22, 1997	4	0	4	138	138



Puako

193

Study Dates	Total No. Captured	No. Newly Tagged	No. Tag Resightings	Total No. Tagged in Population to Date	Peterson Population Index Estimate*
April 2, 1997	1	0	1	138	138
April 16, 1997	19	14	5	152	524
Aug. 21, 1997	13	7	6	159	329
Aug. 25, 1997	1	0	1	159	159
March 26, 1998	19	6	13	165	232
April 2, 1998	1	0	1	165	165
April 11, 1998	1	0	1	165	165

$$\frac{\text{*No. tagged turtles recaptured}}{\text{Total No. turtles captured}} = \frac{\text{Total No. turtles tagged}}{\text{Total No. turtles in resident population (X)}}$$

See P. 172, 188

10/26/99 Scoop Net  
Rice et al. ANAI  
New Tag Kiholo

#7 (48) - 1622 hrs LH 4150441353

51 lbs

RFF - W727  
LFF - W728  
LH - R490  
LF - 4104034B2F

Plastron: 15 tail: 12.2 Cloacal: 8.2 PPS: yes  
Str. carap. length: 55.5 Notch: 55.4 str. width: 45.3  
Curved length: 59.5 Curved width: 53



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# KEAWA NUI

07/10/91

Summary of green turtles, *Chelonia mydas*, tagged and resighted at Keawa Nui, South Kohala during the National Marine Fisheries Service/ Hawaii Preparatory Academy sea turtle research project

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

Study Dates	Total No. Captured	No. Newly Tagged	No. Tag Resightings	Total No. Tagged in Population to Date	Peterson Population Index Estimate*
June 10, 1991	1	1	0	1	-
July 5, 1991	8	8	0	9	-
Oct. 7, 1991	1	1	0	10	-
March 18, 1992	5	4	1	13**	50
Oct. 8, 1992	15	7	8	20	24
Oct. 30, 1992	14	8	6	28	47
Jan. 15, 1993	11	2	9	30	34
April 21, 1993	11	7	4	37	83
May 4, 1993	3	3	0	40	-
June 15, 1993	15	3	12	43	50
Sept. 24, 1993	13	5	8	48	70
May 19, 1994	10	3	7	51	69
June 17, 1994	8	0	8	51	51
Nov. 29, 1994	13	6	7	57	95
Oct. 27, 1997	19	7	12	64	90

$$\frac{\text{*No. tagged turtles recaptured}}{\text{Total No. turtles captured}} = \frac{\text{Total No. turtles tagged}}{\text{Total No. turtles in resident population (X)}}$$

\*\*Turtle N891 found dead and butchered 11/7/91 along the shoreline at Mauna Lani Resort.



# KEAWA NUI

Study Dates	Total No. Captured	No. Newly Tagged	Method of Capture		
			Net	Scuba	Snorkel
June 10, 1991	1	1	1	0	0
July 5, 1991	8	8	8	0	0
Oct. 7, 1991	1	1	1	0	0
March 18, 1992	5**	4	0	0	4
Oct. 8, 1992	15	7	1	0	6
Oct. 30, 1992	14	8	1	7	0
Jan. 15, 1993	11	2	0	2	0
April 21, 1993	11	7	2	2	3
May 4, 1993	3	3	0	3	0
June 15, 1993	15	3	1	2	0
Sept. 24, 1993	13	5	2	3	0
May 19, 1994	10	3	0	3	0
June 17, 1994	8	0	0	0	0
Nov. 29, 1994	13	6	2	4	0
Oct. 27, 1997	19	7	0	7	0

Sept. 23, 1998

15

5

\*\*Turtle N891 found dead and butchered 11/7/91 along the shoreline at Mauna Lani Resort.

Oct. 19, 1999

9  
(1 hawksbill)



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# KIHOLO

Summary of green turtles, *Chelonia mydas*, tagged and resighted at Kiholo Bay during the National Marine Fisheries Service/ Hawaii Preparatory Academy sea turtle research project

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

Study Dates	Total No. Captured	No. Newly Tagged	No. Tag Resightings	Total No. Tagged in Population to Date	Peterson Population Index Estimate*
March 18-21, 1980	12	12	0	12	-
Oct. 14-19, 1990	19	11	8	23	29
March 5-7, 1981	7	2	5	25	32
Aug. 8-9, 1984	20	15	5	40	100
Aug. 30, 1984	9	4	5	44	72
Oct. 21-23, 1987	6	5	1	49	264
Feb. 10-11, 1988	13	11	2	60	319
April 27-28, 1988	9	6	3	66	180
June 28-29, 1988	11	4	7	70	104
Oct. 26-27, 1988	21	9	12	78**	123
March 1-2, 1989	29	20	9	98	251
May 3-4, 1989	36	12	24	110	147
Oct. 18-19, 1989	25	7	18	117	153
Jan. 24-25, 1990	23	9	14	126	192
April 25-26, 1990	59	22	37	148	201
Oct. 24-25, 1990	51	18	33	166	229
March 4-5, 1991	55	12	43	178	212
Jan. 13-14, 1992	63	21	42	198***	267
April 21-22, 1992	87	36	51	234	338
Sept. 28-29, 1992	51	19	32	253	373
Feb. 12, 1993	18	0	18	253	253
April 6, 1993	14	4	10	256****	354



# KiHOLO

Study Dates	Total No. Captured	No. Newly Tagged	No. Tag Resightings	Total No. Tagged in Population to Date	Peterson Population Index Estimate*
Jan. 11, 1994	23	9	14	265	421
Feb. 8-9, 1994	60	19	41	284	388
Sept. 15-16, 1994	47	12	35	295*****	381
March 3-4, 1995	37	5	32	300	341
Sept. 30, 1995	48	12	36	311^	400
Feb. 21-22, 1996	44	6	38	317	360
July 2-3, 1996	7	0	7	317	317
Sept. 10-11, 1996	51	12	39	329	415
Oct. 8, 1996	25	3	22	332	374
Dec. 19-20, 1996	3	0	3	332	332
Jan. 14, 1997	24	2	22	334	362
April 21-23, 1997	87	27	60	361	484
Jan. 22, 1998	15	7	8	368	677
April 2, 1998	6	0	6	368	368

$$\frac{\text{*No. tagged turtles recaptured}}{\text{Total No. turtles captured}} = \frac{\text{Total No. turtles tagged}}{\text{Total No. turtles in resident population}^{\dagger} (X)}$$

\*\*Total number of tagged turtles reduced by one as of 8/19/88 when an individual tagged in 6/88 was found dead from gillnet entanglement.

\*\*\*Total number of tagged turtles reduced by one as of 8/9/91 when an individual tagged in 1/90 was found dead from possible gillnet entanglement.

\*\*\*\*Total number of tagged turtles reduced by one as of 3/23/93 when an individual tagged in 1/92 was found dead.

\*\*\*\*\*Total number of tagged turtles reduced by one as of 4/24/94 when an individual tagged in 1/92 was found dead butchered.

^Total number of tagged turtles reduced by one as of 5/13/94 when an individual tagged in 4/92 was found dead.

Hawksbills: Y254  
D98  
H255  
Q717

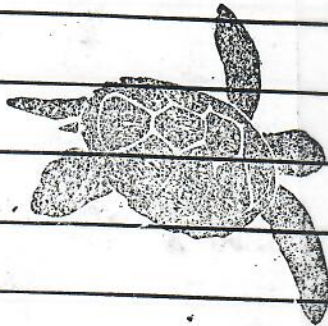
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→ Straight carapace length

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

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



JUNE 17, 1996

Star-Bulletin



Students from Hawaii Preparatory Academy maneuver a green sea turtle into the water after tagging the animal. BY MARK RICE, Special to the Star-Bulletin

## LENGTI

1 m  
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## • The Students vital to turtle research on Big Isle

1  
2 The field hands assist scientists studying the threatened Hawaiian sea creature

3  
4 BY LEILANI S. HINO  
Special to the Star-Bulletin

• Sor **K**OHALA COAST, Hawaii — During his high school years, Scott Lindsey spent many hours observing green sea turtles along Kiholo Bay.

When he graduated from Hawaii Preparatory Academy last year, he took with him an interest in environmental issues, spurred by his fieldwork.

"To actually catch turtles, to actually handle them, be there when they're measured and weighed — it's valuable hands-on experience you can't get any other way," said Lindsey, now a University of Texas computer engineering student who has returned to help with the turtle research this summer.

Since 1987, he and other students at the private school have helped scientists study the threatened Hawaiian green sea turtle, which has suffered from mysterious viruses, marine debris dumped by humans and destruction of nesting sites.

Each year, 60 students in grades eight to 12 sign up for the National Marine

Fisheries Service Cooperative Sea Turtle Research Program, said assistant headmaster Marc Rice.

"It got me into understanding the behavior of sea animals," said Lindsey. "And it definitely made me look at the ocean and wildlife management in a totally different way."

The students work under the supervision of George Balazs, zoologist with the National Marine Fisheries Service.

Balazs, leader of the Honolulu Laboratory Marine Turtle Research Program, has conducted long-term studies of green sea turtles in nearshore waters for more than two decades.

His studies chronicle growth rates, food sources, habitat use, developmental and reproductive migrations, underwater behaviors, health status and population trends of the creatures.

Kiholo Bay, on the Kohala Coast of the Big Island, is one area of focus. And the students serve as field assistants on his West Hawaii data collection expeditions.

"These young people have been instrumental in helping our agency make major advances in the knowledge of sea turtles residing in coastal waters of the

Big Island," he said. "I couldn't function without them."

The students help Balazs capture, measure and tag sea turtles on Honaunau, Kahaluu, Kiholo, Mauna Lani and Puako.

The students hand-capture turtles by snorkeling at night or by using large-mesh tangle nets carefully tended to prevent injury, Balazs said.

A recent research project involved spending 600 hours, both during the day and night, tracking 10 turtles at Kiholo Bay.

Rice said the fieldwork and hands-on experience help students understand the importance of data collection.

Beyond academic benefits, students gain on-the-job experience in teamwork and self-esteem. "When you've got 15 or 20 people going on an overnight field trip, a lot of logistics and planning go into it," Rice said.

And the students learn about themselves.

"It takes something to jump in the water when it's pitch black at night — a moment of self-evaluation, learning you can do things you never knew you could. It helps build self-esteem."

A **colon** is used prior to a list or long quotation. A **semicolon** indicates a greater pause than that which is indicated by a comma; and is often used between groups of words separated by commas.

An **apostrophe** is used to indicate the possessive case of nouns as in *Jenny's pen*; to form a contraction as in *I've* or *they've*; and to form the plural of a letter or number as in the three *R's*, *7's* and *11's*.

An **hyphen** divides words in syllables such as compound words like *twenty-five*.

A **quotation mark** indicates the exact words someone spoke. Use with titles of songs, short stories, chapter titles, short plays, television programs, magazine articles and poems.

**Underlining** is used with the titles of books, movies, newspapers, magazines, long plays and poems.





**Daily departures**  
From Honokohau Marina.  
**9:00 am or 1:30 pm**