A-A HALEIWA ALII BP p.100
11-28-01
KAMEHAME TMR - Release KBAY
p.155
10-25-05 =
H514 LH = NUGGET (p.47)
11-15-05 HANAUMA
HANAUMA
HANAUMA
HANAUMA
HANAUMA 4-00
5-16-00
KAWAINUI 6-7-00
HANAUMA 8-8-00
KAWAINUI
3-27-01 p.69
3-29-01
KAWAINUI
4-10-01
KAWAINUI
4-23-01
KAWAINUI
5-7-01
KAWAINUI
8-29-01 KAWAINUI KBAY
8-31-01 KAWAINUI

HANAUMA
7-17-01
2-13-07
HANAUMA
R-5-06
5 STAR SCHOOL

Roaring Spring®
Compositions

Name
School REHAB
Grade RELEASES
9 3/4 in. x 7 1/2 in. 100 Leaves
Roaring Spring, PA 16673
0 70972 77233 5

6-20-01 KAWAINUI
8-16-01 KAWAINUI

HANAUMA
BALAZS
8-21-07
DANIEL OADES
HANAUMA
2-28-06
5-16-06

GEORGE H. BALAZS
ZOOLOGIST AND LEADER
MARINE TURTLE RESEARCH
and
Regional Vice Chairman for the Pacific Islands
IUCN Marine Turtle Specialist Group

HONOLULU LABORATORY
SOUTHWEST FISHERIES SCIENCE CENTER
NATIONAL MARINE FISHERIES SERVICE
2570 DOLE STREET
HONOLULU, HAWAII 96822-2396 (808) 983-5733
Email: gbalazs@honlab.nmfs.hawaii.edu Fax: (808) 983-2902
Report turtle strandings: (808) 983-5730

Aaron Scherman cell 375-7787

CLASS PROGRAM

NAME _____ ADDRESS _____

Hanauma Bay doing just fine

August 2, 2000 The Honolulu Advertiser

Despite claims to the contrary, the reefs and water quality are in good shape.

ISLAND VOICES

JOHN P. HOOVER

John P. Hoover is author of "Hawaii's Fishes: A Guide for Divers and Snorkelers" and "Hawaii's Sea Creatures: A Guide to Hawaii's Marine Invertebrates."

Hanauma Bay Nature Park has recently become a focal point of contention. The city wants to further develop the park, while a vocal group of concerned citizens wants to protect it from unnecessary development. The city claims the new infrastructure will protect the bay's reefs, which it says are under environmental stress. The concerned citizens are not so sure. Who is right?

I did some research. To my surprise, I could find no scientific study or other concrete evidence to show that the ecosystems of Hanauma Bay are under environmental stress. In fact, studies show the opposite: Hanauma Bay is thriving under its current protected status.

There are huge numbers of fish — more than you are likely to see anywhere else in Hawai'i. And the bay's coral reefs, which are mostly in the center of the bay and too deep for snorkelers, are among the best developed and healthiest in the state.

The idea that Hanauma Bay is in trouble seems to have arisen because of the dead, barren appearance of the reef next to the beach. This is where most people snorkel. The story that beachgoers killed the reef by trampling on it spread to the media over 20 years ago and is now a well-entrenched myth. Authors have repeated this explanation in their books. To this day the Friends of Hanauma Bay, a volunteer group, solemnly warn beachgoers waiting in line at the ticket booth not to walk on the "living reef."

Why is the coral next to the beach dead, if not by trampling? The answer is buried in two scientific studies. The first was published in 1976: Easton & Olsen — "Radiocarbon profile of Hanauma Reef, Oahu, Hawai'i," Geological Society of America Bulletin . The other, by noted UH oceanographer Richard W. Grigg, appeared in 1998: "Holocene Coral Reef Accretion in Hawai'i, a Function of Wave Exposure and Sea Level History," Coral Reefs.

According to these papers, the reef next to the beach at Hanauma Bay is a fossil reef, the remains of corals that thrived in the bay thousands of years ago when sea levels were higher. As sea levels sank, the corals died. Today, conditions near the beach are unsuitable for living corals. It's too shallow. There is too much wave action on top of the reef and too much sediment in the pools. It's as simple as that.

This information is confirmed by the project's own environmental impact statement. On p. 4-29, we read: "It appears from geologic data that the inner reef flat at Hanauma Bay has not been an actively growing reef for at least four centuries." A few lines down, it admits: " ... the composition of the bay's coral community ... is primarily a result of natural processes, and not a result of human impact."

So much for stories of people trampling and killing the corals. Abuse like this occurs on some reefs, but it's not happening in Hanauma Bay to any significant extent.

What about water quality? Surely all those people swimming and snorkeling are creating some bad effect. More good news: The final environmental impact statement reports on a study completed in October 1998: "The overall water quality of the bay does not appear to change substantially as a result of human usage, nor are the changes at a level that might raise any health concerns or be considered detrimental to marine biota" (p. 4-27).

This runs counter to what we usually hear. Does Hanauma Bay's ecosystem really need saving? Almost everyone believes so, and some people are passionate about it, but the facts suggest otherwise. Nowhere in the two-inch thick, three-pound final environmental impact statement could I find documentation that beachgoers and snorkelers are damaging the bay's ecosystem or that the bay's ecosystems are in trouble. Evidently the bay is in good health and not deteriorating, despite the large numbers of visitors.

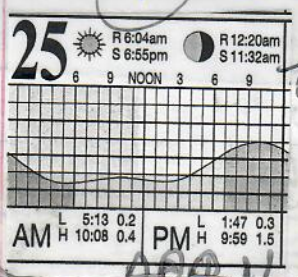
It seems the main danger facing Hanauma Bay Nature Park is that of being over-developed. The current plan calls for a 13,000-square-foot structure on the rim of the bay. Here beachgoers will undergo mandatory "resource awareness training" before they are allowed on the beach. The building will also house a snack bar and a gift shop as well as offices for all the new employees.

Could the real reasons driving the development of Hanauma Bay be economic and political? Given a taste of the money that can be raised by charging admission to a popular beach, this is not a farfetched idea.

If there are economic advantages to a more developed park, let's hear them. Let's debate the issue of developing Hanauma Bay and possibly our other beaches on those grounds. The city should not have to hide behind the skirts of environmental protection to justify its plan.

G.H. BALAZS

25 APRIL 2000 "TURTLE TUESDAY"
HANAUMA BAY (Public excluded from the Bay)
Lena, Anna, T. Work, me (visited by ALAN HANG, JACK, and Kanoi). MOTOTOOL #18 THRU 24.
7 Captures - None w/ Tumors or Prior Tags



TUESDAY

Sent photo

500E0E0E10

This turtle photographed with KANOI

APRIL 2000

Date: Mon, 26 Jun 2000 15:17:49 -0400
From: "Falklands Conservation (Seabirds at Sea Team)" <seabirds@horizon.co.fk>
To: George Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Mark Tasker <tasker_m@jncc.gov.uk>, Katie Swift <Katie_Swift@r1.fws.gov>
Subject: Nugget

Nugget

[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,

I can provide a little more info on the sighting of Nugget.

The sighting was on the afternoon of 12 May 2000. The turtle was inside the reef in relatively shallow water. I'm not too familiar with the names of the various sections of Hanauma, but Nugget was frequenting the area 'below the carpark'. i.e. standing on the beach facing the sea, walk as far left as you can on the sand, enter the water and swim out along the interface between the white sand bottom and coral/rock areas. As I recall we were about half way out to the reef, the turtle was approachable (close enough to read the flipper tag) although I only recall seeing one tag. There was no sign of any aggressive behaviour. I was able to take several photos but none that will win any awards.

Regards,

Richard White

Seabirds at Sea Team
PO Box 705
Stanley
Falkland Islands

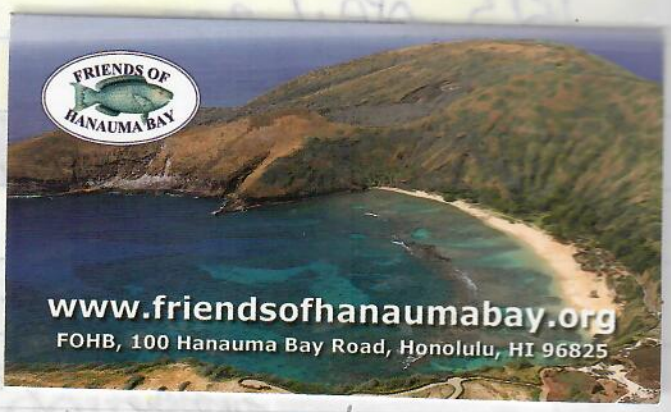
Tel: + 500 22792
Fax: + 500 22791
Email: seabirds@horizon.co.fk

HANAUMA

See p. 47

H514 LH

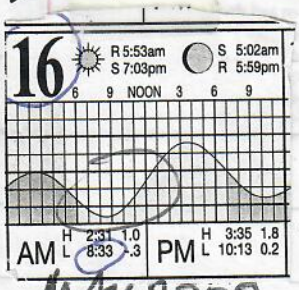
(2)



HANAUMA

new Mototools #25 thru 34
Data Pages 54-59

MAY 2000
Tuesday

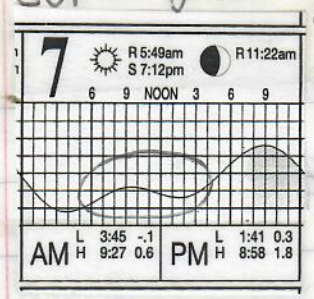


Hanauma - 16 MAY 2000
800AM arrival - ~3PM
(3 captures inside reef (2 new + MT #18 SAW MT #23, inside)
8 SCUBA outside
+SAW MT 22

MAY 2000
Mototool #28 - Torque + MR. 1-#2
"Second reef" lots of evidence of crushed down points - from turtles presumably.

Lena, Anna, Mike Lavs, Brendan Lavs, Vanessa Pepi, Alan Hong, Robin Bond; Jeriffer ____ (education); Shkm, Sean ____.

JUNE 2000 KAWAINUI, Kailua Bay



Date Dyl

KAWAINUI

	New	Rec	
TS-0	~~IIII~~ II	II	= 9
TS-1	IIII		+4
TS-2		I	+1
TS-3	I		+1

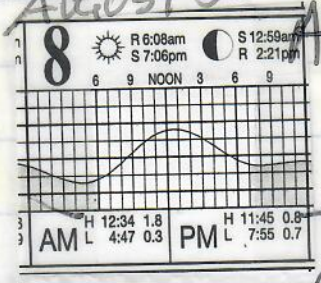
N=15 TOD/

12 new + 3 recov. | 15 |

---

8 August 2000
Tuesday Hanauma

AUGUST 2000



Avg. ØØ

HANAUMA

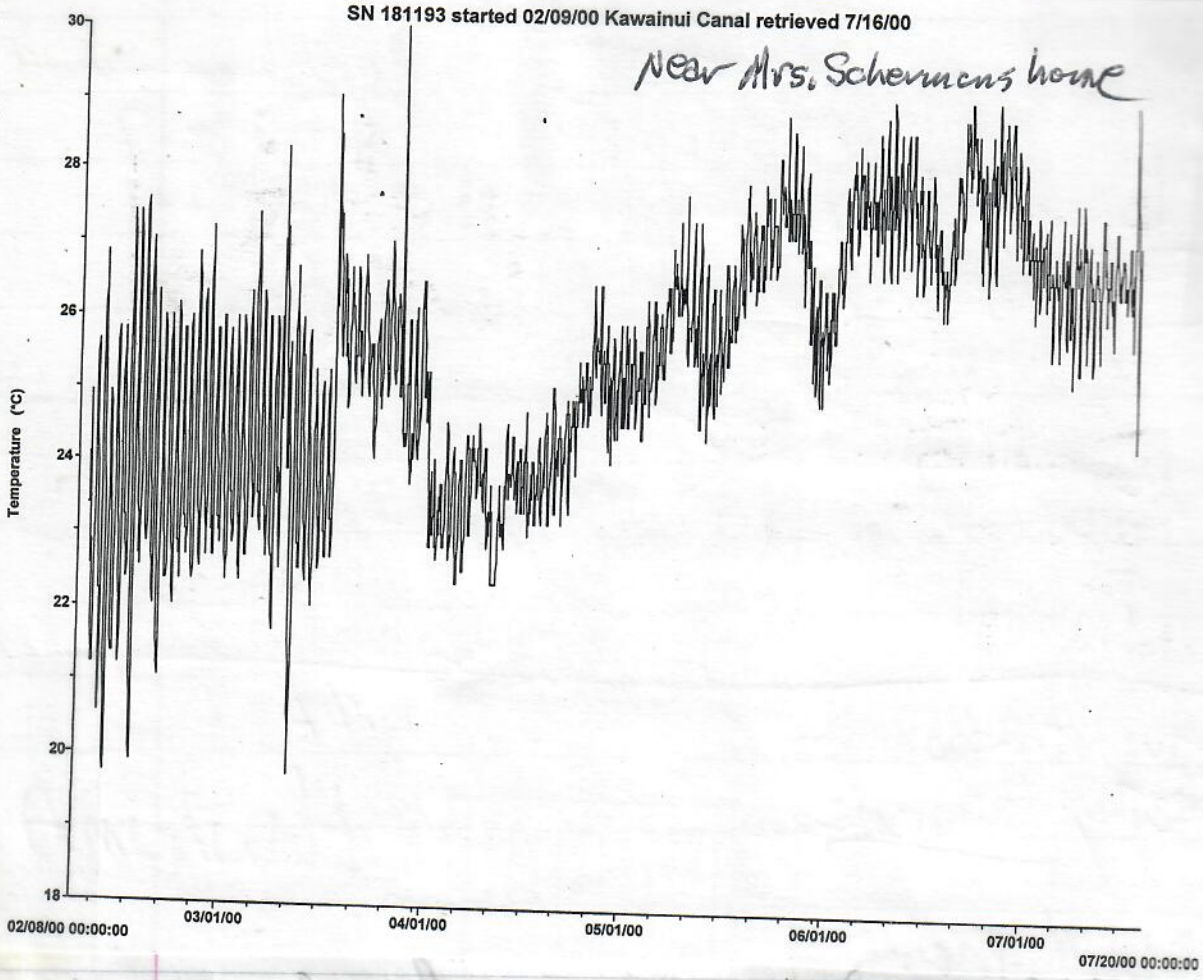
Hawksbill Training workshop visitors (5): Christine Mueller, SKKM, DP, TW, Bob Rayner, Allison Beal.

4 hard snorkel (2 recap from 4/25 no total) 2 new - one w/ tumors.

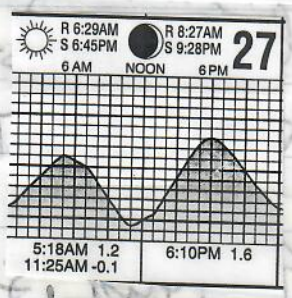
TW DP & BR Scuba to test TW Nitrox and 8 seen at Second reef.

4

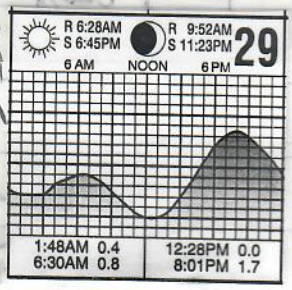
Deployed = KAWAINUI



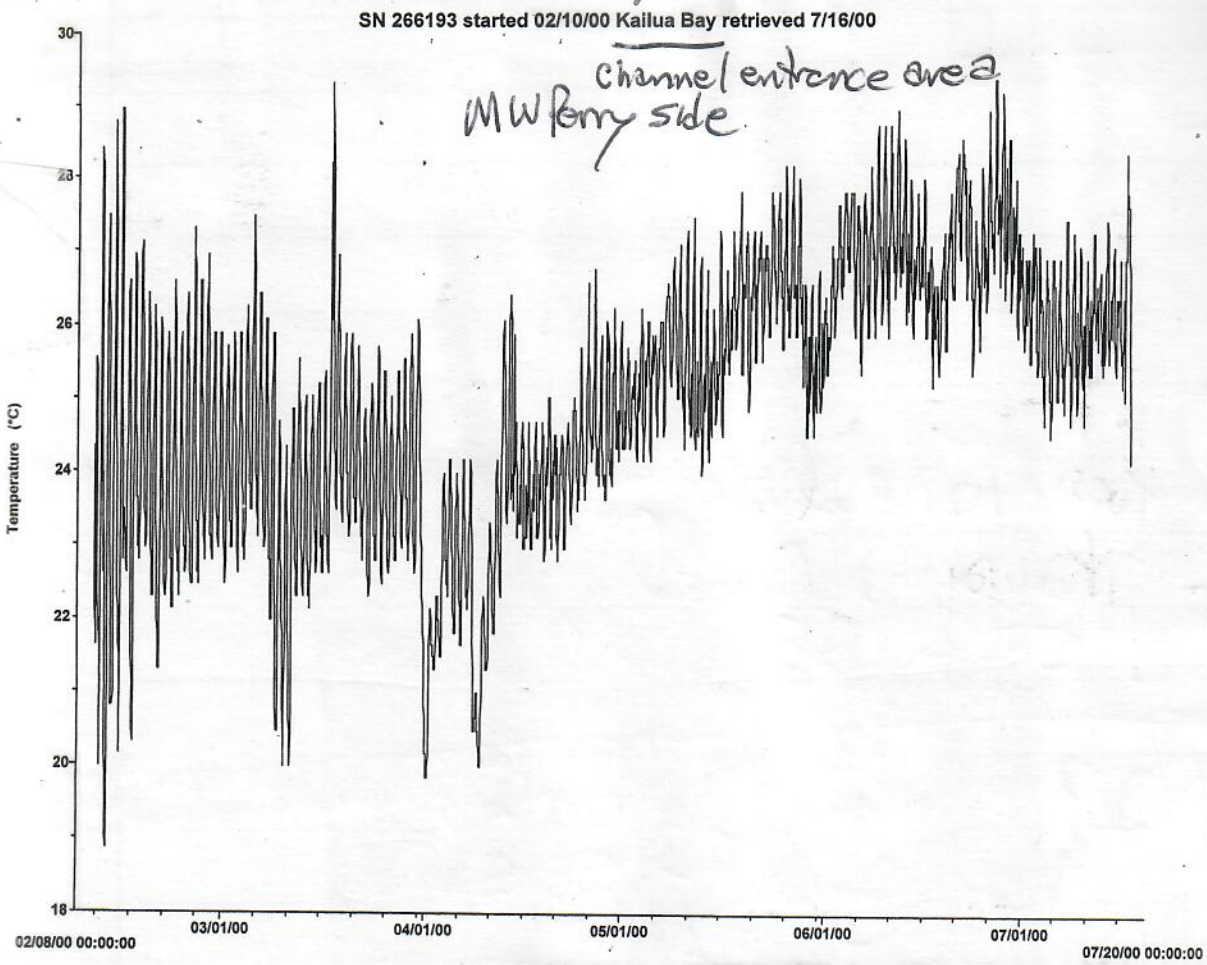
KAWAINUI MARCH 2001



KAWAINUI March 2001



Deployed = KAWAINUI



3-27-01 Kawainui, Kailua Bay
TUES. TW blood cultures - 8/captures
(2 recoveries motorboat 8 & 9). data p. 69-73

3/29-01 Kawainui Kailua
SE & GB caught 2 for cryo and
KRF BAIT tests.

6

Data Logger placement at Kawainui Canal

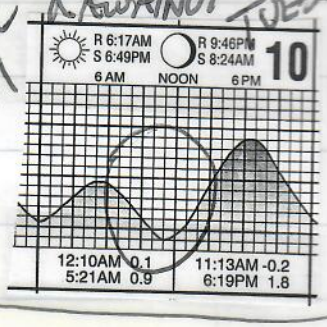
Subject: Data Logger placement at Kawainui Canal
Date: Mon, 17 Jul 2000 13:04:53 -1000
From: Mary Arnone <Mary.Arnone@noaa.gov>
Organization: NOAA
To: George Balazs <gbalazs@s360.swfc2.nmfs.gov>

Lena told me that she placed the new data logger at the Sherman's on 7/16/00. I thought I'd email you the details that she told me encase she doesn't pass the word along to you.

She said that there are two no trespassing signs facing the Canal on the Sherman property. Go to the sign that is closest to the gate. The data logger is 6 meters (towards the gate) from that sign. There is a yellow cord tied to a root (on the ground) marking the spot. The logger was placed about 1 meter from the surface in a cave.

Tues. 10 April 2001
Kawainui Canal
SE & GB

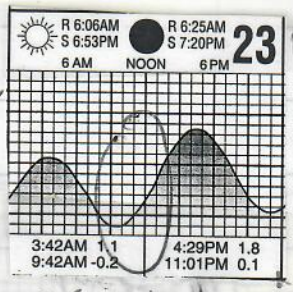
April 2001 KAWAINUI TUESDAY



~~Kawainui Kailua~~

4/23/01 Monday 8 Captures
hard snorkel - SE, Sbunetto,
Kristen, Allison, TW, Bob Raymeyer,
visitor Jeff Polovina, Alexis Polovina,
and Catherine Jeff's wife.

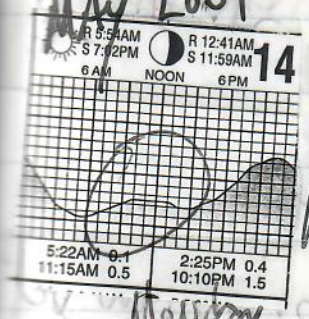
May 2001



KAWAINUI...

Hanauma
5-16-00

See page 56



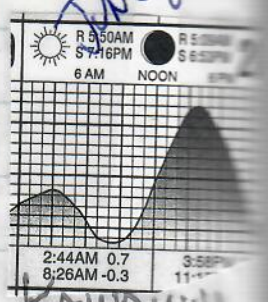
—more Blood cultures—
5/14/01 Kawainui, Kailua Bay
Shaun Murakawa, Shandell Eames,
Kristin ~~[illegible]~~, Honuchi

8

← Hanauma

5-16-2

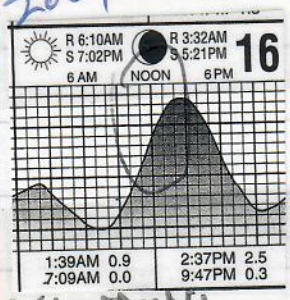
LAURES
AND SO
MAY 20



6-20-01 KAWAINUI DATA pages 85-86
Wednesday 4 captures
SE, SKKM, JAN KAMIYA, Bob Braun, Thierry Work, Amy & another, Amy (TW vet student), Christine Ogura.

MAY 2000 HAWAIIMA (from Turtle)

Aug 2001



16 Aug 2001 on MRS Schemann's property.
Thursday Bill Masters, Tony Redstone,
Allen Foley, Regina Luna

KAWAINUI

16 Captures (11 of 15 total plugs)
(1 died after being taken to MAC)

8 of 16 are tag recaptures (all PIT tags only)

10

Date: Mon, 09 Apr 2001 07:38:12 -1000
From: Thierry Work <thierry_work@usgs.gov>
To: "gbalazs@honlab.nmfs.hawaii.edu" <gbalazs@honlab.nmfs.hawaii.edu>,
Bob Morris <makaiclinic@earthlink.net>,
mark wolcott <mark_wolcott@usgs.gov>
Subject: Latest on GST

[Part 1, Text/PLAIN 42 lines.]
[Unable to print this part.]

To all:

The latest results from Kaneohe Bay (15429) and Kawainui (15437)

15429	TS	BACT	15437	TS	Bact
1	2	Neg	1	0	Neg
2	2	Pos	2	0	Neg
3	1	Neg	3	2	Pos
4	1	Neg	4	1	Neg
5	0	Neg	5	1	Neg
6	1	Neg	6	2	Neg
7	2	Neg	7	2	Pos
8	2	Neg	8	1	Neg

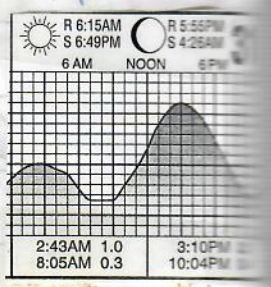
As before, we seem to be only getting blood culture positives on tumor scores 2 (and at that, not all of them). Bact informs me that the bacteria look like Vibrio sp., but I'm awaiting IDs.

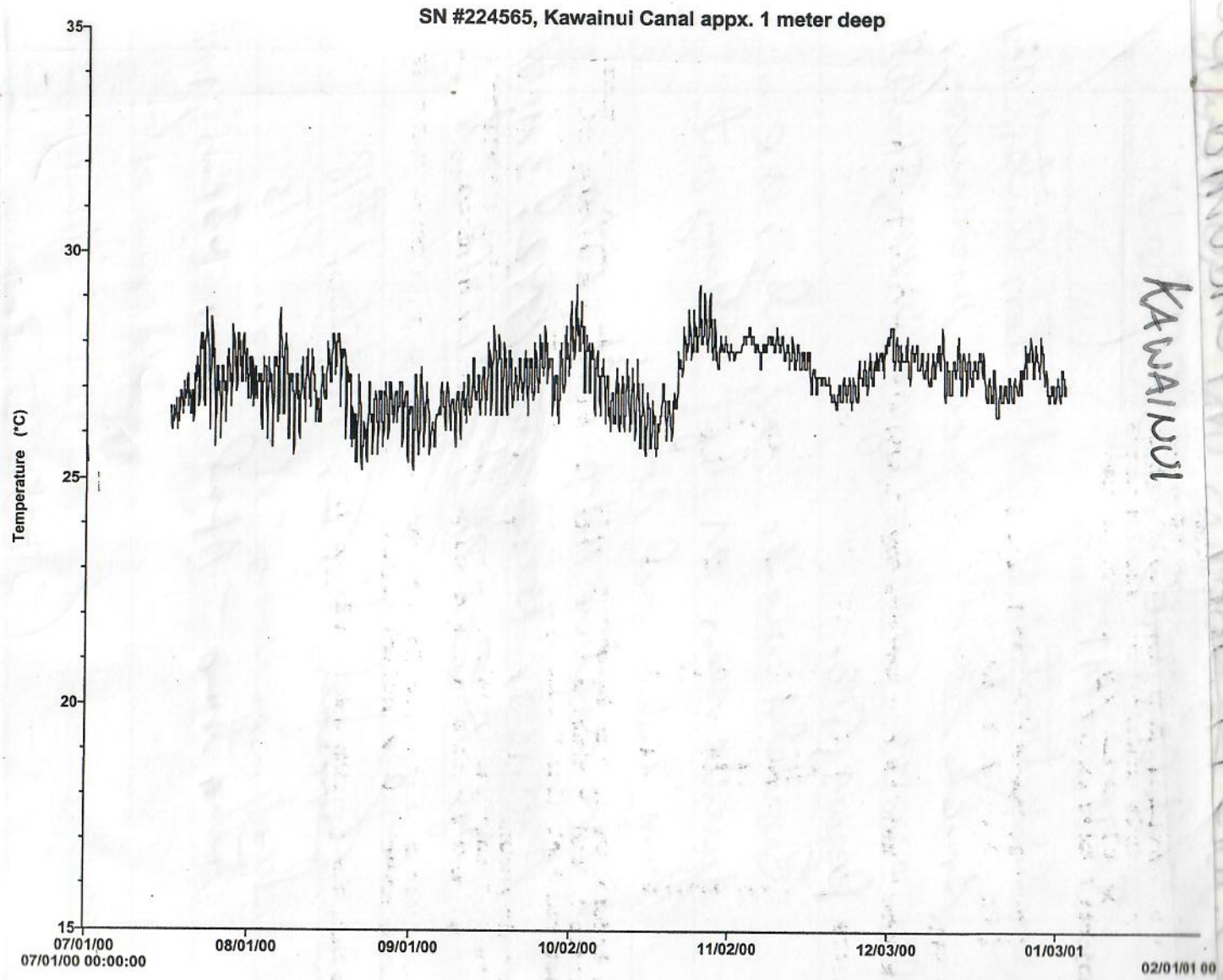
At this point, we (Geo and I) need to make some efforts to ferret out some TS-3 turtles. Ideally, in the end, it would be nice (if all falls into place and with adequate n) to paint the following picture:

Prevalence of bacteremia follows the following pattern TS0<=TS1<TS2<TS3 with appropriate statistical significance.

So far, the pattern seems to be holding.

8-31-01 KAWAINUI




SN #224565, Kawainui Canal appx. 1 meter deep
Temperature (°C)
35
30
25
20
15
07/01/00
07/01/00 00:00:00
08/01/00
09/01/00
10/02/00
11/02/00
12/03/00
01/03/01
02/01/01 00

KAWAINUI

12

TUESDAY JULY 17, 2001 Hanauma Bay

2 CAPTURES page 87 Data

8AM ~ 1PM

Construction of "education Center" and snack bars below underway.

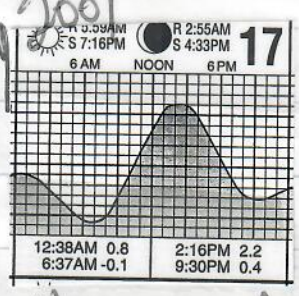
PARTICIPANTS: CHRISTINE Ogura, SKKM, Shandell, Regina, GHB.

Snorkeled inside reef only. one juvenile seen on left - skirting out from under coral rocks.

one capture Mid-to-Right. Eating Amansia. Recap from 1992. 3 metal tags look excellent. #1 TMR anterior eye.

Snorkel dive II. Mototool #18 head in under - resting. PITs follow-thru - April 2000. ~3cm growth.

July 2001



HANAUMA

Snorkel insp only

July 24, 01 (No captures)

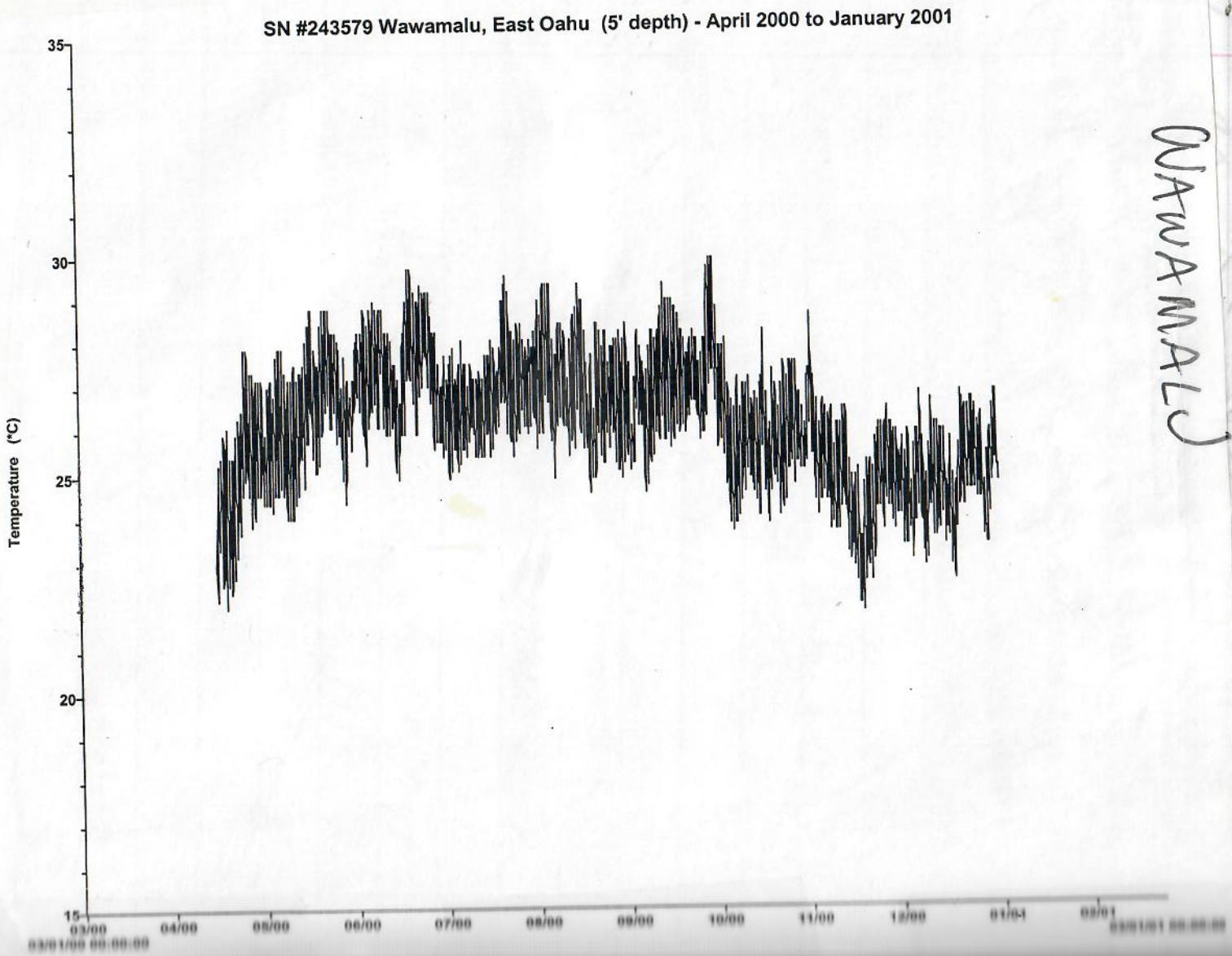
Tuesday

~~3 seen~~ + Mototoo 18
+ Laurs Japanese visitor,

Mike Laurs, Wende, me Kimi & Laura,
Shawn, Christine Ogura, Regina, Tony Palermo,
Sheari.

14

WAWAMALU


SN #243579 Wawamalu, East Oahu (5' depth) - April 2000 to January 2001
Temperature (°C)
35
30
25
20
15
03/00
04/00
05/00
06/00
07/00
08/00
09/00
10/00
11/00
12/00
01/01
02/01
03/01/00 00:00:00
03/01/01 00:00:00

25 see p.

12-20-05 Tuesday visitors from CHICHIJIMA - friends of MANAMI YAMAGUCHI

Son - Graduated Uit 2 day ago

Tsutomu Monde
tsutomu_monde@hotmail.com
Phone 808-4[illegible]-2368
1942 St. Louis Honolulu HI 96816.

THE Mother

KYOKO Monde — OWNS LIQUOR STORE ON ISLAND
Higashimachi Chichijima Ogasawara-mura
Tokyo-TO ~~Japa~~ Japan 100-2101
Phone 04998-2-2408
Email. ranakahale@mb.dion.ne.jp

Here for Son's Graduation

Daughter

AKI Monde
akibarbie@hotmail.com
(81) 090·8808·8600
Fukagawa 2-2-12-303
Koto-ku TOKYO, JAPAN

07-17-01 HANAUMA RECAPTURE

16

July 17, 2001 Recapture at Hanauma

Historical Information for Turtle Tag H509

Tag Information:

Tag Number	Date	Tag Type	Tag Position
424D257215	7/17/01	PIT	RHF
424E7E022B	7/17/01	PIT	LHF
H509	5/20/92	I681	LFL
H510	5/20/92	I681	RFL
H511	5/20/92	I681	LHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace	Since Last Encounter: Interval Month	Interval Year	Growth-Rates cm/mon	Growth-Rates cm/yr
5/20/92	Near Shore	Oahu, Hanauma Bay	0	-	37.9	---	---	---	---
7/17/01	Near Shore	Oahu, Hanauma Bay	1	-	52.9	109.0	9.1	0.1	1.6

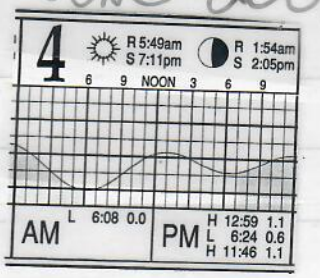
Tag Information:

Tag Number	Date	Tag Type	Tag Position
424D257215	7/17/01	PIT	RHF
424E7E022B	7/17/01	PIT	LHF
H509	5/20/92	I681	LFL
H510	5/20/92	I681	RFL
H511	5/20/92	I681	LHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Curved Carapace	Since Last Encounter: Interval Month	Interval Year	Growth-Rates cm/mon	Growth-Rates cm/yr
5/20/92	Near Shore	Oahu, Hanauma Bay	0	-	40.0	---	---	---	---
7/17/01	Near Shore	Oahu, Hanauma Bay	1	-	55.5	109.0	9.1	0.1	1.7

June 2002 (17)

HANAUMA



6/4/02
Tuesday 830AM Start
Shandell, Omar, Cody, Regina, Thierry work,
Amy (vet student), Allison Beal, ANI ANI,
ANNA Gear taken out ledge on right
Scuba ~1 hour Second reef area - Work
GB ~35 ft. Not a single turtle
seen. Folks on ledge saw one head.
Moved all gear to small road at bottom of
hill. - Snorkeled 1.5 hours all
of us. only 3 sighting - a small turtle -
but coral have been the same one.

Noted "turtle crush" areas on Reef 2
don't look recently used.

6/4/02 [NEWSWATCH]

Box jellyfish warnings in effect across island

The Ocean Safety Division has issued an island-wide box jellyfish warning for today, tomorrow and Thursday.

Commonly affected areas include Ala Moana Beach Park, Waikiki Beach, Hanauma Bay, Pokai Bay and Makaha Beach.

Lifeguards may post warning signs on beaches if warranted.

Those stung by box jellyfish should flush the sting area with white vinegar or seek aid at a lifeguard station, as severe allergic reactions to box jellyfish stings can result in death.

18

Date: Wed, 5 Jun 2002 15:26:40 -1000
From: Alton_K_Miyasaka@exec.state.hi.us
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Hanauma Bay dive 6/4/02

Hi George. It was me on the boat yesterday. When I went in on the Witches Brew dive I saw one about two foot turtle but I wasn't looking for any so didn't make any special note of it. Like you said, we usually see five plus turtles when swimming around out there. I've asked the other guys if they saw any turtles. Will let you know when they call me back. Better luck next time. Alton

"George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> 06/05/02 07:22 AM

To: Alton Miyasaka <alton_k_miyasaka@exec.state.hi.us>
cc:
Subject: Hanauma Bay dive 6/4/02

Aloha Alton, I think you were on the boat yesterday working in Hanauma Bay. Or, maybe it was you, we crossed paths within 50 ft underwater.

How any turtles did you see? On scuba we saw....none. This was a shocker because the second reef is usually crawling with turtles. We last worked in the bay about 10 months ago. Best, George

Date: Thu, 06 Jun 2002 05:03:32 +0000
From: Anna Sigurdsson <anna_sigurdsson@hotmail.com>
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Re: Very nice to see you today!

[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.]

510
Hanauma Bay
Rodeure

Thank you so much for letting me come, I had a greta time, even though I had wished for some turtles.

I talked to my dive buddy, Tod, and he too is convinced the turtle was bigger than 50 centimeters, more in the range of 1 meter. We both thought it looked fat and healthy but I guess a tumor score 1 can be hard to see in the water.
We saw the turtle at a dive spot called the mini barge, located about 1 1/2 miles off Diamond Head, in Maunalua Bay, more acurately off the Kahala mandarin.
I can't remember the date we went diving but I will check my dive log when I come back home tomorrow and then I'll email you the date.
Love Anna

Mahalo, Thanks for writing back, yes would appreciate hearing what your other folks saw. George

On Wed, 5 Jun 2002 Alton_K_Miyasaka@exec.state.hi.us wrote:

>
> Hi George. It was me on the boat yesterday. When I went in on the Witches
> Brew dive I saw one about two foot turtle but I wasn't looking for any so
> didn't make any special note of it. Like you said, we usually see five
plus
> turtles when swimming around out there. I've asked the other guys if they
> saw any turtles. Will let you know when they call me back. Better luck
next
> time. Alton

> > > > Aloha Alton, I think you were on the boat yesterday working in Hanauma
> > > > Bay. Or, maybe it was you, we crossed paths within 50 ft underwater.
> > > >
> > > > How any turtles did you see? On scuba we saw....none. This was a
shocker
> > > > because the second reef is usually crawling with turtles. We last
worked
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they
> > > > saw any turtles. Will let you know when they call me back. Better luck
> > > next
> > > > time. Alton

Date: Wed, 5 Jun 2002 16:38:29 -1000
From: Alton_K_Miyasaka@exec.state.hi.us
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Hanauma Bay dive ~~6/4/02~~ Hanauma Reef

They just called me back. They didn't notice any turtles on their surveys but on the way back to Sand Island they said they saw about five turtles.

Date: Sat, 15 Jun 2002 10:40:24 -1000
From: Alan Hong <ahong@lava.net>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: rappa@hawaii.edu
Subject: Turtles (or lack of) at Hanauma Bay

[Part 1, Text/PLAIN (charset: ISO-8859-1 "Latin 1 (Western Europe)")]
[23 lines.]
[Unable to print this part.]

[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.]

Aloha George,

Got my repaired computer back from HP, so I'm up an running again.

There have been occasions when I've seen no turtles while snorkelling, but that is very, very rare. I'll start checking with others, and try to go out myself.

Peter Rappa and I went out a little more than a month ago and saw seven turtles in their usual spot.

Will keep you posted.

On a similar note, items are being delivered for our educational exhibit. We will have stuffed sea turtles (I think they're on loan from NMFS or Fish & Wildlife to Sea Grant) in the exhibit. However, the exhibit contractor couldn't find a sea turtle skeleton, so he's using one from a box turtle. Would you know of a source for a sea turtle skeleton, which is much more appropriate for H-Bay?

Date: Thu, 06 Jun 2002 22:30:31 -1000
From: Laura Fontanilla <olive@hawaii.rr.com>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Turtles at Hanauma

George,

Decided on a dive this afternoon. You are right about the lack of turtles. We saw 2 at reef #2. But, the most exciting was the Hawksbill turtle that was also there (3 all together). My pictures are at the lab for processing...will pick up tomorrow. I was having problems with my strobe so I hope they come out. That was really strange for it to be so scarce.....think the are running from the predator?

Aside from that we ran into a 4 foot barracuda and 4 juvenile squid along the line at the channel.

When are you planning to go out there again?

Date: Thu, 11 Jul 2002 17:22:20 EDT
From: Suzhamhi@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: (no subject)

Dear George,

Reduce - Hanauma

Great to have the form. I'll distribute them. I saw the hawksbill 9:00 in it's usual place today and a turtle with very enlarged tail (?) tumor infection? Took a picture but it was very deep

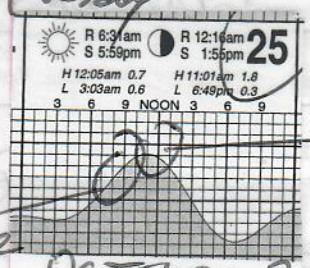
Aloha,

Suzanne

	TOTAL	NEW	Recap
1) 10-25-05 =	10	9	1 (Nonnesting Female)
2) 11-15-05	8	6 (TIME)	2
3) 12-20-05	11	4	7 (TIME)
4) 1-17-06	11	4	7
5) 2-28-06	4	3 (TIME)	1
6) 5-16-06	9	4 (30)	5 (TIME)
7) 7-18-06	6	1 (31)	5

(22) 10-25-05 Hanauma

Tuesday



N=2

N=8 (Recaptures of Nugget)

OCTOBER 2005

(10) captures — DATA pages 100 — (9 new, 1 Recovery NUGGET) = 1 cm SCL per year

BRIDGETS' FAREWELL LUNCHEON (Hanauma Bay TRIP was at Bridget's REQUEST)

Arrive Hanauma ~715am — me, Cody, Cori, (ERIN, Shawn, Cheryl KAINE) IN GOV TRUCK, Bob Morris. ALAN Hong & Robin Bond. Jack - worker, drove cart - same as many past trip to HANAUMA.

When walking down hill we spotted 6+ turtles on the left - up and down feeding.

Saw and photo'd a Squid.

Started snorkel on the left - over ~1-hour period & captured Nugget. I caught 1 amputee + one more TO THE W... worked up turtles — many photos

Second Snorkel — ~1-2pm. 2 more captured.

Departed ~3 PM.

23

HANAUMA NUGGET Reduce

Date: Thu, 15 Apr 2004 14:59:40 -1000
From: John S. Johnson <jsj@amagata.com>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: RE: Basking in Makaha

[The following text is in the "utf-8" character set.]
[Your display is set for the "US-ASCII" character set.]
[Some characters may be displayed incorrectly.]

Actually, turtles are one of my favorite subjects for photography and Nugget had such a way of introducing herself to me on a dive that I couldn't help but fall for her. There is another nicknamed Boomerang by some at the bay. She is also person-tolerant and a wonderful subject(I assume the "she" because of the short tail with respect to carapace size, but I don't know). I am not aware of Miss Piggy off Kona, but wouldn't mind a visit. For the last several months I have spent considerable time at Makaha at Turtle Rock admiring the cleaning station. Saw nine there recently, including a HUGE male the size of a tabletop. I have seen two turtles carrying extensive lengths of monofilament line lately out there. I won't admit to anything illegal, but there is no danger of limb amputation anymore.
As for Nugget, the last time I saw her was yesterday. Saw her near her usual resting place in an area by the backdoor side. Of my last 8 trips to this place in the later hours of the day I have found her 5 times(over a period of 3 months). Sometimes napping, sometimes scavenging for limu. Boomerang also uses the same ledges to bed down in, I've noticed. Anyhoo, I am attaching a pic from yesterday. I have a couple pictures of her on the Underwater Photographic Society of Hawaii page below as well:
http://www.upsh.org/Scripts/Gallery.php?memberid=1&galleryid=38&name=John+Johnson

Mahalo,
John

-----Original Message-----
From: George H. Balazs [mailto:gbalazs@honlab.nmfs.hawaii.edu]
Sent: Fri 4/16/2004 6:10 AM
To: John S. Johnson
Cc:
Subject: RE: Basking in Makaha

Good God man, you know ALL the turtles don't you? When's the last time you saw Nugget and in what part of the Bay?

About my "temporary tattoos" the problem is they are too temporary! After just a few months they have grown out-- the sign of heathy turtles.

Do you also know a turtle named Miss Piggy of Kona coast diving fame?
Aloha, starting tomorrow I'll be off email for 8 days.
On Thu, 15 Apr 2004, John S. Johnson wrote:

> I have seen your handiwork on the shells of a few turtles up at Laniakea
> recently. Yes--Aki's Cove is the place I was referring to. Anyway,
> Nugget sends her regards...
>

(24)

Reduce

Date: Mon, 24 Oct 2005 10:45:19 -1000
From: "Hong, Alan" <ahong1@honolulu.gov>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: rcbond@hawaii.rr.com, "McDaniel, Martha D." <mmcdaniel@honolulu.gov>
Subject: RE: Hanauma- Turtle Tuesday?

Aloha George,

Thus far this month, a monk seal(s) has been in the bay on Oct. 1, 10, 11, 20, 21, & 23. The seal(s) almost always haul out on the ledge bordering the Backdoor Channel.

Facing toward the mouth of the bay, the Backdoor Channel is on the far left. The Keyhole is the next sandy area (shaped like a teardrop).

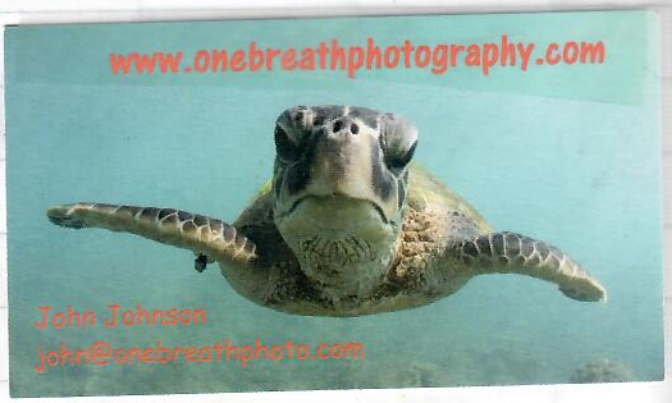
Alan

-----Original Message-----
From: George H. Balazs [mailto:gbalazs@honlab.nmfs.hawaii.edu]
Sent: Monday, October 24, 2005 10:12 AM
To: Hong, Alan
Cc: rcbond@hawaii.rr.com
Subject: RE: Hanauma- Turtle Tuesday?

when was the last time a seal was seen?
Is keyhole to the tight left looking down, or?
Thanks Alan!

On Mon, 24 Oct 2005, Hong, Alan wrote:

> Aloha George,
>
> In the two minutes it took me to checked the water at 9:00 this morning, I saw two turtles in the Backdoor Channel/Keyhole area.
>
> I think tomorrow is a GO. The water is not rough, but since it's high tide, somewhat murky.
>
> Alan
>
>
>
>
>
>
>
> -----Original Message-----
> From: George H. Balazs [mailto:gbalazs@honlab.nmfs.hawaii.edu]
> Sent: Saturday, October 22, 2005 6:44 AM
> To: Hong, Alan; Hong, Alan
> Subject: Hanauma- Turtle Tuesday?
>
>
>
> Are we still ON for Tuesday morning Alan? We would all arrive about
> 715am. Five or six cars, about 11 people all my staff or affililates.
> Please advise. Aloha, George
>
> George H. Balazs, Leader
> Marine Turtle Research Program
> NOAA, National Marine Fisheries Service
> Pacific Islands Fisheries Science Center
> 2570 Dole Street
> Honolulu, Hawaii 96822-2396 USA
> Tel:(808) 983-5733
> Fax:(808) 983-2902
> gbalazs@honlab.nmfs.hawaii.edu

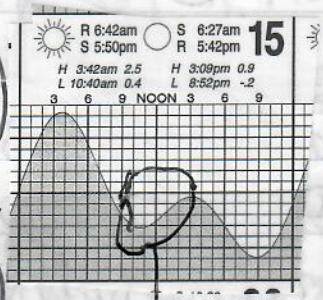


from p.15
from p.22

11-15-05 HANAUMA
Tuesday Active 8AM

DATA PAGE 105-109

8 cap Tues (6 New 2 Recap)



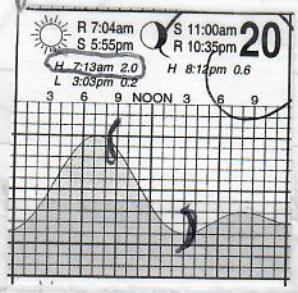
Tuesday 15th Nov. 2005

Blood taken for PCV & TP

MARC RICE, Rebecca Wong
3 Students (Ashley & Melon)
+ AUNT WONG + DOB MORRIS + MIGUA + Bridget & Brother George

12/20/05
Tuesday

HANAUMA



DECEMBER 20, 05

High at 915 AM 2.0 ft.

(Note high TIDE was 1.6 ft 11AM on 10-25-05 trip.)

GLASSY CALM NO WIND

~~Scheduled to Came~~ CAME

815 am (1) MIGUA (2) Shawn, (3) ERIN, (4) Melissa Snover, (5) BOB MORRIS, (6) Jeff Mangel, (7) wife JOANNA, (8) Susan Kamei, (9) Daughter Allison, (10) JOHN JOHNSON, (11) Manami Yamaguchi, (12) Chichijima friend X3, (13) (14) Addresses see page 15, (15) Russell Price

ALAN HONG
JACK O ____ TAG 11785 Locked on to his coal.
ROBIN BOND

8 Blood for TP & PCV.

DATA PAGES = 110

11 captures
4 New, 7 Recaptures
(INCLUDES Nugget)

(26)

1-17-06 p. 115-120
11 captures (4 new)

2-28-06 p. 121-122
4 captures (1 new (Tme))

ALAN HONG, JOHN NORRIS, Robbin Bond, 3 from NY, Stacy Fuller, SHAWN, DUSTY, IRENE NURZIA, Joanne Pettigrew, Bonnie Oshiro, Bill Pruit (safety officer),

9AM 28 FEB 06
1 12
Shrove Tuesday
Malasada Day

personnel
OOPS
N=11

Tuesday
5-16-06 Me, SKKM, ERIN, DUSTY, MARK (Keith Biggs) Sieber Marshall
Melanie (Jeff Poolvraa intern), Irene Nurzia, Joanne Martin McGiwa + her mother. Austin ____ Suzanne Hannaby (new) for half day. Gift Shop person half day ? ?
+ ALAN Hong later in AM, - Shawn operating land tracker. MULE Snorkel inside yielded nothing - not even a sighting. TURTLE Went outside - very calm - all captures made outside.

turtles
N=9
(new=4)
very low TIDE

Suzanne told about "nagged" resting head on shoulder shortly after 9-11 then her writing to governor suggesting SHARE Aloha with NY Fire Fighters. Also, she sees a hawksbill at Hanauma entrance at Baboons head. U/W hook removed me from RFF of turtle we captured. Plus "swelling tumor" TO A2.

Tues

Guests

(24)

7/18/06 – Kevin HAAS / wife – 3 kids
National BAND & TAG Newport Ky.
+ ALAN Hong, Dusty Stacy Hana (Cody sister),
Cody – Sharon Carol (Hanauma Bay
John Johnson, Tiffany (Gift shop),
Robin Bond 16' Whaler – Phd Singapore
researcher – LING ONG – (Boyfriend's name
McFadden) – Parrot fish research – internal
tag – listening stations, 500' Range
(Last name) (Need) ONGL@Hawaii.edu
N=6 Captures (5 hand snorkel, 1 scoop net)
(5 Recoveries
1 Newly Tagged)

BOX JELLYFISH RETURN TO BEACHES

A box jellyfish advisory has been issued for tomorrow and Thursday with possible arrivals today.

The affected areas will be Waikiki Beach, Hanauma Bay, Pokai Bay, Makaha Surfing Beach and Waimea Bay. There also have been occasional sightings on the north and west shores of Oahu. For public information about ocean conditions, advisories and warnings, a pre-recorded report can be accessed 24 hours a day at 922-3888, ext. 51.

HANAUMA BOOK

(1)

CAPTURE DATE, LOCATION AND METHOD:

TOES 02-13-07 HANAUMA BAY, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SM

OLD TAGS: 11867 LHF; 44127F7774 RHF; 44147206B45 LHF

NEW TAGS: RFL; LFL

TUMOR SCORE: 1

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 48.6 WIDTH: 39.4

NOTCH LENGTH: 48.3 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 52.Ø WIDTH: 46.5

HEAD WIDTH: — ~~Axamin~~

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: —

Lateral - 18.4

TAIL LENGTH: T — C —

late: 16.9
lat3: [redacted] 13.5

RIGHT FRONT FLIPPER WIDTH: —

SAMPLES COLLECTI

PLASTRON LENGTH: —

WEIGHT: 34.5 #

DESCRIPTIVE REMARKS:

Photo taken of eye tumors
Amphipod in Mouth
PCA on plastron
6 Centrals (Carw. Ak. Sh.)

MARKS 1#1 L eye (anterior)
1#1 R eye (anterior ringing)

(2)

CAPTURE DATE, LOCATION AND METHOD:

021307 HANAUMA BAY, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SM

OLD TAGS: 470B4F6569 LHF; 470A031F41 RHF; 11777 LHF

NEW TAGS: RFL; LFL

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 46.5 WIDTH: 36.7

NOTCH LENGTH: 46.Ø DB: Ø L.O. VB: L.O.

CURVED CARAPACE LENGTH: 49.5 WIDTH: 43.5

HEAD WIDTH: — ~~Axamin~~

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

Lateral - 20.[redacted]3

lat2: 18.[redacted]6
lat3: 14.1

TAIL LENGTH: T — C —

RIGHT FRONT FLIPPER WIDTH: —

SAMPLES COLLECTI

PLASTRON LENGTH: —

WEIGHT: 34.Ø #

DESCRIPTIVE REMARKS:

PCA!
3 White dots PAINT MARK

(3)

CAPTURE DATE, LOCATION AND METHOD:

02-13-07 HANAUMA BAY, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SM

OLD TAGS: 4452067911 LHF
443856294C RHF
11787 LHF

NEW TAGS: RFL
LFL

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 52.3 WIDTH: 39.1

NOTCH LENGTH: 52.2 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 55.5 WIDTH: 47.5

HEAD WIDTH: — ~~Axial~~ -

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: —

Lateral - 20.9

TAIL LENGTH: T — C — Lat2: 18.8 Lat3: 14.6

RIGHT FRONT FLIPPER WIDTH: —

SAMPLES COLLECTI

PLASTRON LENGTH: —

WEIGHT: 41.5 #

DESCRIPTIVE REMARKS:

PCA
3 white dots PAINT MARK

(4)

CAPTURE DATE, LOCATION AND METHOD:

02-13-07 HANAUMA BAY, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SM

OLD TAGS: 4708543130 LHF
470C6Ø3D58 RHF
11864 LHF

NEW TAGS: RFL
LFL

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 50.6 WIDTH: 38.7

NOTCH LENGTH: 50.9 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 54.Ø WIDTH: 46.5

HEAD WIDTH: — ~~Axial~~

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: —

Lateral - 21.5

TAIL LENGTH: T — C — Lat2: 19.Ø Lat3: 14.1

RIGHT FRONT FLIPPER WIDTH: —

SAMPLES COLLECTI

PLASTRON LENGTH: —

WEIGHT: 41.Ø #

DESCRIPTIVE REMARKS:

3 white dots PAINT MARK

28

(5)

CAPTURE DATE, LOCATION AND METHOD:

02-13-07 HANAUMA BAY, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SM

OLD TAGS: 4608BD194A LHF
4601722C5C RHF
118-70 LHF

NEW TAGS: RFL
LFL

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 50.9 WIDTH: 41.2

NOTCH LENGTH: 50.8 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 53.5 WIDTH: 48.5

HEAD WIDTH: — ~~AXILLA~~ -

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: —

Lateral - 20.4

TAIL LENGTH: T — C —

Lat 2: 18.0
Lat 3: 14.6

RIGHT FRONT FLIPPER WIDTH: —

SAMPLES COLLECTI

PLASTRON LENGTH: —

WEIGHT: 43.9 #

DESCRIPTIVE REMARKS:

"NUGGET"

(6)

CAPTURE DATE, LOCATION AND METHOD:

02-13-07 HANAUMA BAY, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SM

OLD TAGS: H512 RFL
H514 LHF
4607 2A5B24 LHF
4607561663 RHF
TDR MK9 2nd L. lateral

+ SONIC TAG

NEW TAGS: RFL
LFL

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 57.2 WIDTH: 43.2

NOTCH LENGTH: 56.9 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 60.5 WIDTH: 51.5

HEAD WIDTH: 8.3 ~~AXILLA~~ -

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: —

Lateral - 22.2

TAIL LENGTH: T — C —

Lat 2: 19.6
Lat 3: 15.9

RIGHT FRONT FLIPPER WIDTH: 9.6

SAMPLES COLLECT

PLASTRON LENGTH: —

WEIGHT: 55.0 #

DESCRIPTIVE REMARKS:

TDR DATA DOWNLOADED BY MARC RICE

(1)

CAPTURE DATE, LOCATION AND METHOD:

02-13-07 HANAUMA BAY, OAHU (OUTSIDE REEF) HAND/SNORKEL

PERSON RECORDING DATA:

OLD TAGS: 44145545 3C LHF; 44127D5133 RHF; 118608 LHF

NEW TAGS: RFL; LFL

TUMOR SCORE: 1

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 50.1 WIDTH: 41.5

NOTCH LENGTH: 49.8 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 53.5 WIDTH: 49.Ø

HEAD WIDTH: — ~~Anomal~~-

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: — Lateral-21.8

TAIL LENGTH: T — C — Lat 2: 18.3 Lat 3: 14.1

RIGHT FRONT FLIPPER WIDTH: —

SAMPLES COLLECTI

PLASTRON LENGTH: —

WEIGHT: 42.5 #

DESCRIPTIVE REMARKS:

PCA

TUMORS #1 R eye (ant. corner) #1 L eye (ant. corner)

(8)

CAPTURE DATE, LOCATION AND METHOD:

02-13-07 YES HANAUMA BAY, OAHU (OUTSIDE REEF) HAND/SNORKEL

PERSON RECORDING DATA:

OLD TAGS:

NEW TAGS: RFL; LFL

TUMOR SCORE: Ø

OTHER NEW TAGS: LHF 44521F360C; RHF 44546C6649

STRAIGHT CARAPACE-LENGTH: 44.2 WIDTH: 37.Ø

NOTCH LENGTH: 44.Ø DB: Ø L.O. VB: Ø L.

CURVED CARAPACE LENGTH: 47.Ø WIDTH: 43.5

HEAD WIDTH: 6.7 ~~Anomal~~-

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y Lateral-18.3

TAIL LENGTH: T 9.Ø C 6.5 Lat 2: 16.1 Lat 3: 12.1

RIGHT FRONT FLIPPER WIDTH: 7.1

SAMPLES COLLECT

PLASTRON LENGTH: 43.9

WEIGHT: 28.5 #

DESCRIPTIVE REMARKS:

(4)


Hanauma Bay

Date: Sat, 5 Jan 2002 18:38:04 -1000
From: Alan Hong <ahong@lava.net>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>,
Jeffrey Yasushi Kuwabara <kuwabara@hawaii.edu>
Cc: Kimberly Artita <kimby@soest.hawaii.edu>,
Shandell Eames <seames@honlab.nmfs.hawaii.edu>, olive@hawaii.rr.com
Subject: Re: Sick Turtle at Hanauma(fwd)

[Part 1, Text/PLAIN (charset: ISO-8859-1 "Latin 1 (Western Europe)")]
[86 lines.]
[Unable to print this part.]

[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.]

Aloha George,

By the description, this sounds like the turtle we call "Nugget" that you tagged in Hanauma Bay on May 20, 1992. Lisa King and I were there that day helping you.

I came upon Nugget most recently on 12/31/01, at about 3:00 in the afternoon. He (she?) went through his usual routine, swimming into our group, slapping us with his flipper, pushing his face into our masks, etc, then swam away. He seemed ok to me.

When I went out to the same area on 1/3/02, I saw seven turtles, but Nugget wasn't among them. This is not unusual, since we've come upon him in many different areas of the bay.

Would be very interesting to check Nugget's growth the next time you do tagging in H-Bay.

Aloha,

Alan

Reduce

NUGGET

Date: Fri, 04 Jan 2002 07:32:56 -1000 (HST)
From: Jeffrey Yasushi Kuwabara <kuwabara@hawaii.edu>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: olive@hawaii.rr.com
Subject: sick turtle (fwd)

George,

Happy new year. Just received this message and thought you might be interested. I know that there is nothing we can do. It may just be a case of nature at work. At any rate, if you have a more complete or different response, please contact Laura.

mahalo,
jeff

****
Jeffrey Y. Kuwabara
Marine Park Program Specialist
Hanauma Bay Education Program
phone: (808) 397-5840
fax: (808) 395-0468
e-mail: kuwabara@hawaii.edu
****

---------- Forwarded message ----------
Date: Sun, 30 Dec 2001 16:39:20 -1000
From: Laura Fontanilla <olive@hawaii.rr.com>
To: Jeff Kuwabara <kuwabara@hawaii.edu>
Subject: sick turtle

Jeff,

We were diving on Sunday 12/30 and found this very sick turtle (no evidence of cancer), we reported it to kimi.

He was very lethargic and he remained in this position but kept falling on his side.

I saw three tags on him, one was unreadable. One on his front read H513, the one on his back leg was H514.

Clayton will be there again on Monday 12/31. He might look for you. We don't know if anything can be done to help this guy but he sure looked very sick.

(40)

Date: Sat, 05 Jan 2002 07:47:00 -1000
From: Laura Fontanilla <olive@hawaii.rr.com>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Sick Turtle at Hanauma(fwd)

> Is it possible the turtle was simply Very Soundly sleeping?

Nope, we were positive of that. There were other behaviors that made it evident that something was not right.

> Where is Turtle Town within the Bay?

Past witches brew, nearly to the mouth of the bay. THe depth was ~40-50'. If you follow the cable out it will take you directly there. I would be happy to show you where it is.

Did you see the picture I had attached to the email to Jeff? I'll attach it to this one. When we first entered the water (scuba) he approached us and tried to bite the camera so I thought he was a friendly turtle but he did not part from us (I usually make note of all the marked ones). We went on our way to photograph some of the sleeping ones but I was intrigued by the way this one was "resting"....as you can tell by the photo, that's the way I later found him. He would "fall" on it's side and stay there (like he was drunk). Had no energy to prop itself back up. That's when I thought it wasn't a case of a friendly turtle.

If I can help in any way please call me at 754-3513 (cell). Clayton or I would be happy to show you where it is if you need to take further action. What do you see happening at this point?

>Do you work at Hanauma- have we met?

We don't work there. We dive (scuba and skin) there very very often. We also do some underwater photography. I'm sure after this we will meet sometime.

L

George,
Thanks again for that wonderful day.
It was such a thrill for all of us. We'll
never forget those awesome memories.

Your kindness
will always
be remembered.

Thanks for the book as well. Very
well done! Hope all is going well.
If you ever get over this way
Stop in for a plant tour.
Take care.
Sincerely,
Sheila & Kevin Haas

HAAS
FAMILY
NATIONAL BAND
AND TAG CO.

Date: Mon, 07 Jan 2002 22:03:27 -1000
From: Laura Fontanilla <olive@hawaii.rr.com>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: tags

Applied H512 H513 H514

Geroge,

Any firm confrimation that I havs picture of Nugget? Tag on ~~left front leg~~ is H513, back left is H514.

I did get on your page. Great!! What a spectacular event to be a part of.

How can I keep abreast on your works?

5/20/92

Laura

43.5 cm

28 lbs

Nov. 25, 1992

Recovered 11/25/92

31 lbs

45.5

Thank you for letting us see the turtles and everything else, once and a time.
-Ashley

Thank you for giving our family the lifetime chance to come in and enjoy your park. I had a wonderfull time

Thank you for letting us stay and see sea turtles I had a great time.
-Carson

See page 133

Historical Information for Turtle Tag 357A7148

Tag Information:

Tag Number	Date	Tag Type	Tag Position
357A7148	4/14/00	PIT	RHF
362B485A	4/14/00	PIT	LHF

						Since Last Encounter				Overall			
						Interval		Growth-Rates		Interval		Growth-Rates	
Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Weight	Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
4/14/00	Near Shore	Oahu, Kawainui Canal	1	-	26.0	---	---	---	---	---	---	---	---
6/7/00	Near Shore	Oahu, Kawainui Canal	2	-	26.0	1.0	0.1	0.0	0.0	1.0	0.1	0.0	0.0
4/23/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	2	-	18.0	10.0	0.8	---	---	12.0	1.0	---	---

Historical Information for Turtle Tag 357A7148

Tag Information:

Tag Number	Date	Tag Type	Tag Position
357A7148	4/14/00	PIT	RHF
362B485A	4/14/00	PIT	LHF

						Since Last Encounter				Overall			
						Interval		Growth-Rates		Interval		Growth-Rates	
Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace	Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
4/14/00	Near Shore	Oahu, Kawainui Canal	1	-	44.7	---	---	---	---	---	---	---	---
6/7/00	Near Shore	Oahu, Kawainui Canal	2	-	44.8	1.0	0.1	0.1	1.0	1.0	0.1	0.1	1.0
4/23/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	2	-	44.5	10.0	0.8	0.0	---	12.0	1.0	0.0	---

Historical Information for Turtle Tag 35787535

Tag Information:

Tag Number	Date	Tag Type	Tag Position
35787535	3/17/00	PIT	LHF
36282B44	3/17/00	PIT	RHF

						Since Last Encounter				Overall			
						Interval		Growth-Rates		Interval		Growth-Rates	
Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Weight	Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
3/17/00	Near Shore	Oahu, Kawainui Canal, Kailua Bay	2	-	26.0	---	---	---	---	---	---	---	---
4/23/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	30.0	13.0	1.1	0.3	3.6	13.0	1.1	0.3	3.6

Historical Information for Turtle Tag 35787535

Tag Information:

Tag Number	Date	Tag Type	Tag Position
35787535	3/17/00	PIT	LHF
36282B44	3/17/00	PIT	RHF

						Since Last Encounter				Overall			
						Interval		Growth-Rates		Interval		Growth-Rates	
Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace	Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
3/17/00	Near Shore	Oahu, Kawainui Canal, Kailua Bay	2	-	47.0	---	---	---	---	---	---	---	---
4/23/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	47.0	13.0	1.1	0.0	0.0	13.0	1.1	0.0	0.0

04-23-01 KAWAINUI RECAPTURED

Historical Information for Turtle Tag 3101

Tag Information:

Tag Number	Date	Tag Type	Tag Position
3101	6/6/79	I681	RFL
3102	6/6/79	I681	LFL
35312C75	4/14/00	PIT	RHF
35685A11	4/14/00	PIT	LHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace	Since Last Encounter				Overall			
						Interval		Growth-Rates		Interval		Growth-Rates	
						Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
6/6/79	Near Shore	Oahu, Bellows AFB, Waimanalo Bay #1	0	-	42.9	---	---	---	---	---	---	---	---
4/14/00	Near Shore	Oahu, Kawainui Canal	2	-	64.5	250.0	20.8	0.1	1.0	250.0	20.8	0.1	1.0
4/23/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	2	-	64.3	12.0	1.0	0.0	---	262.0	21.8	0.1	1.0

Historical Information for Turtle Tag 3101

Tag Information:

Tag Number	Date	Tag Type	Tag Position
3101	6/6/79	I681	RFL
3102	6/6/79	I681	LFL
35312C75	4/14/00	PIT	RHF
35685A11	4/14/00	PIT	LHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Weight	Since Last Encounter				Overall			
						Interval		Growth-Rates		Interval		Growth-Rates	
						Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
6/6/79	Near Shore	Oahu, Bellows AFB, Waimanalo Bay #1	0	-	24.0	---	---	---	---	---	---	---	---
4/14/00	Near Shore	Oahu, Kawainui Canal	2	-	70.0	250.0	20.8	0.2	2.2	250.0	20.8	0.2	2.2
4/23/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	2	-	69.0	12.0	1.0	---	---	262.0	21.8	0.2	2.1

03-29-01 KAWAINUI RECAPTURE

Historical Information for Turtle Tag 350B3711

Tag Information:

Tag Number	Date	Tag Type	Tag Position
350B3711	3/17/00	PIT	RHF
362A6F40	3/17/00	PIT	LHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace	Since Last Encounter Interval Month	Since Last Encounter Interval Year	Since Last Encounter Growth-Rates cm/mon	Since Last Encounter Growth-Rates cm/yr	Overall Interval Month	Overall Interval Year	Overall Growth-Rates cm/mon	Overall Growth-Rates cm/yr
3/17/00	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	47.8	---	---	---	---	---	---	---	---
3/27/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	48.5	12.0	1.0	0.1	0.7	12.0	1.0	0.1	0.7
3/29/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	48.5	---	---	---	---	12.0	1.0	0.1	0.7

Historical Information for Turtle Tag 350B3711

Tag Information:

Tag Number	Date	Tag Type	Tag Position
350B3711	3/17/00	PIT	RHF
362A6F40	3/17/00	PIT	LHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Weight	Since Last Encounter Interval Month	Since Last Encounter Interval Year	Since Last Encounter Growth-Rates cm/mon	Since Last Encounter Growth-Rates cm/yr	Overall Interval Month	Overall Interval Year	Overall Growth-Rates cm/mon	Overall Growth-Rates cm/yr
3/17/00	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	31.0	---	---	---	---	---	---	---	---
3/27/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	31.0	12.0	1.0	0.0	0.0	12.0	1.0	0.0	0.0
3/29/01	Near Shore	Oahu, Kawainui Canal, Kailua Bay	1	-	29.6	---	---	---	---	12.0	1.0	---	---

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

11-25-92 HANAUMA BAY HANO/ SCUBA

PERSON RECORDING DATA: GK

OLD TAGS: RFL / LFL

NEW TAGS: RFL F17 / LFL F16

TUMOR SCORE 2

OTHER NEW TAGS: LHF F18

STRAIGHT CARAPACE-LENGTH: 42.5 **WIDTH:** 34.4

NOTCH LENGTH: 42.4

CURVED CARAPACE LENGTH: 45.5 **WIDTH:** 40.5

HEAD WIDTH: 6.9

SEX: MALE, FEMALE OR UNDETERMINED U

TAIL LENGTH: T 7.0 C 4.5

RIGHT FRONT FLIPPER WIDTH: 7.4

SAMPLES COLLECTED:

(1) Algae sample in cavities betw. tumors

PLASTRON LENGTH: 34.2

WEIGHT: 21.0 #

DESCRIPTIVE REMARKS:

TUMORS L. eye 1#1, 1#2 RHF 1#1 | PCA on plastron/carapace patch on
R. eye 2#1 Engraved File on 3rd lateral left/right
R. jawline 1#2 - spray painted white.
L. jawline 2#1, 1#2 Neck 1#2
Glottis 1#1 LHF 1#2 | Mouth check - with speculum - Amansia

35 * Swam right up to BHB Swim

See p. 1

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SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

11-25-92 HANAUMA BAY HAND/ SCUBA

PERSON RECORDING DATA: SK

OLD TAGS: RFL H512 LFL H513 LHF H514

NEW TAGS: RFL LFL

TUMOR SCORE 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 45.9 **WIDTH:** 35.6

NOTCH LENGTH: 45.5

CURVED CARAPACE LENGTH: 49.0 **WIDTH:** 42.5

HEAD WIDTH: –

SEX: MALE, FEMALE OR UNDETERMINED U

TAIL LENGTH: T – C –

RIGHT FRONT FLIPPER WIDTH: –

SAMPLES COLLECTED:

PLASTRON LENGTH: 36.8

WEIGHT: 31.0 #

DESCRIPTIVE REMARKS: New engraving H512 ~~[illegible]~~ old engravings - Spray painted white
Lots PCA / Mouth check - with speculum
Engraved 3rd lateral right H – (faint ~~[illegible]~~)
~~New engraving~~ Engraved on 3rd lateral right unreadable H512 - faint

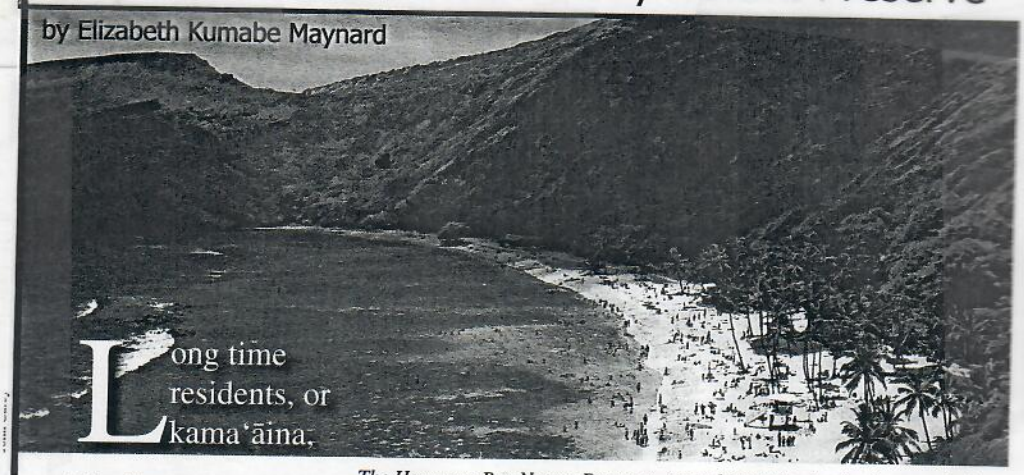
Nugget

Tag Nos.	Date	Carapace Length (cm) Straight	Carapace Length (cm) Curved	Weight (lbs)	Captured Method
5619	09/09/81	26.1	---	7.9	Captive reared
5625	09/09/81	27.6	---	7.5	Captive reared
5627	09/09/81	27.1	---	7.8	Captive reared
5653	09/09/81	21.8	---	3.9	Captive reared
5661	09/09/81	23.6	---	5.4	Captive reared
5663	09/09/81	22.1	---	3.9	Captive reared
5673	09/09/81	25.3	---	6.3	Captive reared
5687	09/09/81	26.0	---	6.4	Captive reared
5697	09/09/81	22.7	---	4.7	Captive reared
5698	09/09/81	26.1	---	6.9	Captive reared
H506, H507, H508	05/20/92	55.4	59.0	54.0	Hand/Scuba
H509, H510, H511	05/20/92	37.9	40.0	16.0	Hand/Snorkel
H512, H513, H514	05/20/92	43.5	46.5	28.0	Hand/Snorkel
H515, H516, H517	05/20/92	45.9	49.5	30.0	Hand/Scuba
H518, H519, H520	05/20/92	43.6	46.0	27.0	Hand/Snorkel

Tag Nos.	Date	Carapace Length (cm) Straight	Carapace Length (cm) Curved	Weight (lbs)	Captured Method
F16, F17, F18	11/25/92	42.5	45.5	21.0	Hand/Scuba

Education at the Hanauma Bay Nature Preserve

by Elizabeth Kumabe Maynard



The Hanauma Bay Nature Preserve, second in visitor destination popularity to Waikīkī, is the home of UH Sea Grant's Hanauma Bay Education Program.

Long time residents, or kama'āina, visiting Hanauma Bay find a different place than they knew forty years ago. They may recall a more rugged beach accessed by wooden stairs or driving down to camp and fish on the beach. Some may recall catching large lobsters and fish before fishing restrictions were enacted in response to the Bay's dwindling marine life. The popularity of Hanauma Bay rose among resi dents, culminating in the closure of the lower beach access road in 1953 due to congestion. In 1967, the Bay was declared Hawai'i's first Marine Life Conservation District in an effort to preserve its marine life with limited early success.

In the early 1980s, The Univer sity of Hawai'i Sea Grant College Program (UH Sea Grant) and the University of Hawai'i Marine Option Program hosted a full-day symposium for state resource agencies and the local community focusing on the unregulated crowds of 10,000 plus daily Bay visitors and their associated impacts on the coral reef ecosystem. Impacts included the physical disturbance of corals and other animals through human trampling, overfishing and pollution in and around the Bay from human urine, pigeon droppings, and humans entering the water and shedding suntan oil. Rampant fish feeding added to the Bay's problems by altering the natural balance among fish species and food resources. Uneaten or surplus fish food contributed to poor water quality and attracted avian and rodent scavengers to the beach park.

A partnership among UH Sea Grant, the City and County of Honolulu, and the grass-roots organization Friends of Hanauma Bay was established in 1990 to address the above impacts. The immediate needs inspired UH Sea Grant to estab lish an education program with a part-time educator and dedicated community volunteers sharing their messages of reef "etiquette" and awareness through portable displays. This partnership has also been instrumental in assisting the administrating city government in understanding how their manage ment decisions impact Bay opera tions and, ultimately, the health of the reef ecosystem. The Hanauma Bay Education Program (HBEP) and its volunteers have grown to be a vital aspect of managing the Bay's visitors and ultimately its resources.

The HBEP uses its Sea Grant network of expertise and research to increase public knowledge

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and understanding of Hawai'i's marine environment and issues related to its management and protection. The Hanauma Bay Education Center, now in its fourth year, educates one million Bay visitors annually on marine science and stewardship. One innovative management tool used at the Hanauma Bay Nature Preserve is a seven-minute mandatory visitor orientation video on the basics of reef ecology. This video has resulted in a documented decrease in reef standing and trampling by Bay users.

Education for all

A popular feature of the Education Center is its state-of-the-art education alcove classroom. This classroom provides opportunities for schools and other educational groups nationwide. In 2004, nearly 13,000 individuals participated in on-site HBEP group programs. Of those participants, one-half are Hawai'i residents, predominantly local elementary, secondary, and college students. These programs aim to increase environmental literacy and stewardship capacity of Hawai'i's students. Curricula developed and distributed in these programs also supports and aids teachers in meeting state education content and performance standards.

The HBEP also offers unique outreach benefits to the community via access to the Sea Grant network and associated coral reef and coastal management research. Cutting-edge research programs are showcased in a free weekly evening lecture and film series that attracts residents and interested visitors to the Education Center. Series themes have included marine protected areas and species, coral reef ecology and conservation, aquaculture, humpback whales, and invasive species.

The seminars support the interaction of government agencies, researchers, and private organizations and the community. Often, these sessions provide the speakers with an opportunity to obtain public feedback and discussion. In the past year, 49 evening events were conducted, reaching 1600 community members. The National Oceanic and Atmospheric Administration (NOAA), Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve and Hawaiian Islands Humpback Whale National Marine Sanctuary are strong HBEP partners.

Seasonal Saturday evening fairs at the Education Center are held in partnership with the City and County of Honolulu and NOAA's Hawaiian Islands Humpback Whale National Marine Sanctuary. Fairs are open to the public with night-time beach access. Various agencies and organizations are invited to present activities, presentations, displays, exhibits and craft activities for *keiki* (children). Fairs are theme focused and have included Marine Mammal Evening, *Honu* (turtle) Evening, and Our Living Reef.

Experiencing the Bay

The Hanauma Bay Nature Preserve is a truly unique worldwide treasure as well as opportunity. Second in popularity as a Hawai'i visitor destination only to Waikīkī, one-fourth of all O'ahu visitors seek out Hanauma Bay for its spectacular geography, crystal blue waters, and the opportunity to observe and interact with the now abundant marine life. The Bay's visitors are, indeed, delegates from the global community. Presenting science-based environmental information to these visitors offers tremendous potential for enhancing worldwide marine science awareness. The HBEP reaches people who may in no other way, or by any other means, be influenced to consider the impact of human activity on marine ecosystems, particularly coral reefs. The significance of this influence is vast, considering the multiplier effect of Hanauma Bay's globally constituted audience taking this message of marine preservation around the world.

Elizabeth Kumabe Maynard is a regional environmental extension specialist for UH Sea Grant. She holds a master's of education degree in curriculum and instruction from the University of Hawai'i at Mānoa.

MOP stepwoodi's wife

(1)

CAPTURE DATE, LOCATION AND METHOD: Hanauma Bay Hand Snorkel 4-25-2000

PERSON RECORDING DATA:

OLD TAGS:

NEW TAGS: RF 500F2B3F25

OTHER NEW TAGS: LF 5019184E07

TUMOR SCORE: 0

STRAIGHT CARAPACE-LENGTH: 55,5 WIDTH: 43,1

NOTCH LENGTH: 55,3 DB: L.O. VB: L.O

CURVED CARAPACE LENGTH: 60,0 WIDTH: 53,5

HEAD WIDTH: 8,2

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 11,5 C 8,0

RIGHT FRONT FLIPPER WIDTH: 9,8

SAMPLES COLLECTI: 3,0 L1Q

PLASTRON LENGTH: 45,0

WEIGHT: 57 57

Robust plastron

DESCRIPTIVE REMARKS: PCA on carapace

Mototool 18 2nd lateral Left and Right white line 1st central

(2)

CAPTURE DATE, LOCATION AND METHOD: Hanauma Bay Hand Snorkel 4-25-00

PERSON RECORDING DATA: L. Börjesson

OLD TAGS:

NEW TAGS: RFL 500E1B6361

LF 502F0B6E65

OTHER NEW TAGS:

TUMOR SCORE: 0

STRAIGHT CARAPACE-LENGTH: 49,1 WIDTH: ~~48,8~~ 39,1

NOTCH LENGTH: 48,8 DB: L.O. VB: L.O

CURVED CARAPACE LENGTH: 53,0 WIDTH: 47,0

HEAD WIDTH: 8,3

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: NO

TAIL LENGTH: T 10,5 C 6,5

RIGHT FRONT FLIPPER WIDTH: 8,9

SAMPLES COLLECTI: 1,2 L1Q

PLASTRON LENGTH: 41,2

WEIGHT: 42

Robust plastron

DESCRIPTIVE REMARKS: PCA on carapace

Mototool 19 2nd lateral left & Right white line 1st central

(4)

CAPTURE DATE, LOCATION AND METHOD: (3)

Hanauma Bay — Hand snorkel 04-25-00

PERSON RECORDING DATA: L. Börjesson

OLD TAGS:

NEW TAGS: RFI 502E4F3237

LFF 500F1B3E7D

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 50,2 WIDTH: 40,1

NOTCH LENGTH: 50,2 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 53,5 WIDTH: 47,5

HEAD WIDTH: 8,5

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 12,0 C 7,5

RIGHT FRONT FLIPPER WIDTH: 8,9

500F1B3E7D

PLASTRON LENGTH: 40,7

Plastron robust

mouth sample 2,3 LIQ

WEIGHT: 44

PCA on carapace

DESCRIPTIVE REMARKS:

mototool 20 2:nd lateral left & right white line 1:st central

CAPTURE DATE, LOCATION AND METHOD: (4)

Hanauma Bay — Hand Snorkel 04-25-00

PERSON RECORDING DATA: L. Börjesson

OLD TAGS:

NEW TAGS: RFL 4136222211

LFL 4136296E10

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 63,8 WIDTH: 48,5

NOTCH LENGTH: 63,6 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 68,5 WIDTH: 60,5

HEAD WIDTH: 9,9

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 15,0 C 10,0

4136296E10

RIGHT FRONT FLIPPER WIDTH: 10,5

PLASTRON LENGTH: 51,3

mouth sample 3,6 LIQ

WEIGHT: 76

PCA on carapace

DESCRIPTIVE REMARKS:

mototool 21 2:nd lateral left & right white line 1:st central

(5)

CAPTURE DATE, LOCATION AND METHOD: Hanauma Bay Hand Snorkel 04-25-00

PERSON RECORDING DATA: L. Börjesson

OLD TAGS:

NEW TAGS: RFI 4135280F4E

LF 413575545A

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 47,7 WIDTH: 36,5

NOTCH LENGTH: 47,5 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 51,0 WIDTH: 44,5

HEAD WIDTH: 8,0

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 9,5 C 8,0

RIGHT FRONT FLIPPER WIDTH: 8,2

413575545A

PLASTRON LENGTH: 37,6

mouth sample

plastron robust

WEIGHT: 33

1,7 LIQ

PCA on carapace

DESCRIPTIVE REMARKS:

mototool 22 2:nd lateral left & right

white line 1:st central

(6)

CAPTURE DATE, LOCATION AND METHOD: Hanauma Bay Hand Snorkel 04-25-00

PERSON RECORDING DATA: L. Börjesson

41363B6835

OLD TAGS:

NEW TAGS: RF

LF

TUMOR SCORE: 0

OTHER NEW TAGS: 413603251F

STRAIGHT CARAPACE-LENGTH: 53,0 WIDTH: 43,4

NOTCH LENGTH: 52,6 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 57,5 WIDTH: 53,0

HEAD WIDTH: 9,5

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 12,0 C 9,0

RIGHT FRONT FLIPPER WIDTH: 9,3

SAMPLES COLLECTED

PLASTRON LENGTH: 44,5

plastron robust

WEIGHT: 55

2,3 LIQ

PCA on carapace

DESCRIPTIVE REMARKS:

mototool 23 2:nd lateral left & right

white line 1:st central

Ø 7 END

CAPTURE DATE, LOCATION AND METHOD: Hanauma Bay Hand Snorkel 04-25-00

PERSON RECORDING DATA: L. Börjesson

OLD TAGS:

NEW TAGS: RF 500F14303D LF

TUMOR SCORE: 0

OTHER NEW TAGS: 500E0E0E10

STRAIGHT CARAPACE-LENGTH: 48,1 WIDTH: 38,2

NOTCH LENGTH: 48,0 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 51,5 WIDTH: 45

HEAD WIDTH: 7,9 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 10,0 C 7,0

RIGHT FRONT FLIPPER WIDTH: 8,6 SAMPLES COLLECTI

PLASTRON LENGTH: 38,4

plastron robust

WEIGHT: 41 1,7 LIQ

PCA on carapace

DESCRIPTIVE REMARKS:

mototool 24 2nd lateral left & right

white line 1st central

1

CAPTURE DATE, LOCATION AND METHOD: HANAUMA BAY 5-16-Ø0 HAND/SNORKEL 16 MAY 00

PERSON RECORDING DATA: ALLISON BEALE (AMB)

OLD TAGS:

NEW TAGS: RFL

TUMOR SCORE: Ø

OTHER NEW TAGS: LHF 500E196E79 RHF 500E1A3B34

STRAIGHT CARAPACE-LENGTH: 54.2 WIDTH: 41.7

NOTCH LENGTH: 54.2 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 57.5 WIDTH: 50.5

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

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 13.0 C 8.5

RIGHT FRONT FLIPPER WIDTH: 9.0 SAMPLES COLLECTED: MOUTH CONTENTS

PLASTRON LENGTH: 44.5 2.3 cc LIQ

WEIGHT: 51 # 10cc blood taken by T. Work.

Blood dot spot

DESCRIPTIVE REMARKS:

MOUTH SAMPLE

PCA

Mutation #25 on 2nd R/L laterals and 1st central, white paint

(2)

CAPTURE DATE, LOCATION AND METHOD:

05-16-00 HANAUMA BAY 5-16-00 HAND/ SNORKEL

PERSON RECORDING DATA: JKB

OLD TAGS: LHF5019184E07 RHF500F2B3F25

NEW TAGS: RFL LFL

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 56.0 WIDTH: 43.7

NOTCH LENGTH: 55.8 DB: 00 L.O. VB: 00 L.O.

CURVED CARAPACE LENGTH: 60.0 WIDTH: 53.0

HEAD WIDTH: 8.3

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 11.0 C 7.5

RIGHT FRONT FLIPPER WIDTH: 9.1

SAMPLES COLLECTED: 10cc blood taken by T. WORK

PLASTRON LENGTH: 45.8

WEIGHT: 57#

Blood dot spot

DESCRIPTIVE REMARKS:

Old moto-tool #18 still visable on 2nd left and right laterals and also straight line on 1st central still visable.

(3)

CAPTURE DATE, LOCATION AND METHOD:

05-16-00 HANAUMA BAY 5-16-00 HAND/ SNORKEL

PERSON RECORDING DATA: JKB

OLD TAGS:

NEW TAGS: RFL

OTHER NEW TAGS: LHF 5031434879 RHF 5031557352

TUMOR SCORE: 0

STRAIGHT CARAPACE-LENGTH: 43.6 WIDTH: 33.4

NOTCH LENGTH: 43.5 DB: 0 L.O. VB: 0.0 L.O.

CURVED CARAPACE LENGTH: 48.0 WIDTH: 40.5

HEAD WIDTH: 7.2

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: YES

TAIL LENGTH: T 10.0 C 6.5

RIGHT FRONT FLIPPER WIDTH: 7.3

SAMPLES COLLECTED: 8cc blood taken by T. WORK

PLASTRON LENGTH: 34.3

WEIGHT: 28

Blood dot spot

DESCRIPTIVE REMARKS:

PCM 1cc IM Liquamycin

Mototool #26 on 2nd R/L lateral and line on 1st central, white paint

CAPTURE DATE, LOCATION AND METHOD: (4)

HANAUMA BAY 5-16-00 SCUBA/HAND SNORKEL 16 MAY 00

PERSON RECORDING DATA: ALLISON

OLD TAGS:

NEW TAGS: RFL

LHF 502F023744

TUMOR SCORE: Ø

OTHER NEW TAGS: RHF 503155045B

STRAIGHT CARAPACE-LENGTH: 43.7 WIDTH: 35.7

NOTCH LENGTH: 43.6 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 47.5 WIDTH: ~~42.0~~ 42.0

HEAD WIDTH: 6.8

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 8.5 C 6.0

RIGHT FRONT FLIPPER WIDTH: 7.8

SAMPLES COLLECTI

PLASTRON LENGTH: 35.1

8cc BLOOD

1.0 LIQ

WEIGHT: 26#

DESCRIPTIVE REMARKS:

MOTOTOOL #27

CAPTURE DATE, LOCATION AND METHOD: (5)

HANAUMA BAY 5-16-00 SCUBA/HAND SNORKEL 16 MAY 00

PERSON RECORDING DATA: ALLISON

OLD TAGS:

NEW TAGS: ---

LHF 501E3D602C

TUMOR SCORE: 1 ~~Ø~~

OTHER NEW TAGS: RHF 500E210E2F

STRAIGHT CARAPACE-LENGTH: ~~56.5~~ 52.7 WIDTH: ~~41.9~~ 41.8

NOTCH LENGTH: 52.4 DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 56.5 WIDTH: 41.9

HEAD WIDTH: 7.8

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 12.1 C 9.0

RIGHT FRONT FLIPPER WIDTH: 8.4

SAMPLES COLLECTI

PLASTRON LENGTH: 42.1

8cc BLOOD

2.3cc LIQ

WEIGHT: 45#

DESCRIPTIVE REMARKS:

MOTOTOOL #28

#2 ~~GENERAL~~ TUMOR; LATERAL CANTHUS OF LF EYE ⇒ VERY SM. TUMOR #1

Torque

Photo page 2

CAPTURE DATE, LOCATION AND METHOD: (6)

HANAUMA BAY 05-16-00 HAND SNORKEL/ SCUBA

PERSON RECORDING DATA: ALLISON

OLD TAGS:

TUMOR SCORE: 0

NEW TAGS: LHF 500E494C43

OTHER NEW TAGS: RHF 500E1A713F

STRAIGHT CARAPACE-LENGTH: 46.1 WIDTH: 35.7

NOTCH LENGTH: 46.0 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 49.5 WIDTH: 42.0

HEAD WIDTH: 8.0

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 11.0 C 7.5

RIGHT FRONT FLIPPER WIDTH: 7.8

SAMPLES COLLECTED: 8cc BLOOD, 1.7cc LIQ

PLASTRON LENGTH: 39.2

WEIGHT: 37#

DESCRIPTIVE REMARKS: MOTOTOOL #29

See Page 133

CAPTURE DATE, LOCATION AND METHOD: (7)

HANAUMA BAY 5-16-00 HAND SNORKEL/ SCUBA

PERSON RECORDING DATA: ALLISON

OLD TAGS:

TUMOR SCORE: 0

NEW TAGS: RFL LHF 502E621442

OTHER NEW TAGS: RHF 501E2A3616

STRAIGHT CARAPACE-LENGTH: 53.0 WIDTH: 42.9

NOTCH LENGTH: 52.9 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 57.0 WIDTH: 51.0

HEAD WIDTH: 8.3

SEX: MALE, FEMALE OR UNDETERMINED:

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 13.5 C 9.0

RIGHT FRONT FLIPPER WIDTH: 9.2

SAMPLES COLLECTED: 8cc BLOOD, 2.3cc LIQ

PLASTRON LENGTH: 41.9

WEIGHT: 50#

DESCRIPTIVE REMARKS: MOTOTOOL #30

LF 11TH MARGINAL SCUTE - BROKEN

① START

KAWAINUI

CAPTURE DATE, LOCATION AND METHOD:

06-07-00 KAWAINUI CANAL, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SKKM

OLD TAGS: 41357A7148 RHF
41362B485A LHF

NEW TAGS: RFL
LFL

TUMOR SCORE: 2

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 44.8 WIDTH: 35.6

NOTCH LENGTH: 44.6 DB: 0 L.O. VB: 1 L.O.

CURVED CARAPACE LENGTH: 47.5 WIDTH: 41.0

HEAD WIDTH: 7.3

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 9.0 C 5.5

RIGHT FRONT FLIPPER WIDTH: 7.3

SAMPLES COLLECTI: 2 blood dot spots

PLASTRON LENGTH: 36.8

10cc blood taken by T. Work

WEIGHT: 26.0#

DESCRIPTIVE REMARKS:
Old mototoi (#19) on 2nd L/R. laterals

TUMORS
1#2 Cloaca
1#2 LHF
1#1 LFF
1#2 Neck
2#1 L R. eye (both corners)

②

CAPTURE DATE, LOCATION AND METHOD:

06-07-00 KAWAINUI CANAL, OAHU BASKING

PERSON RECORDING DATA:

OLD TAGS:

NEW TAGS: RHF ~~RFL~~ LHF ~~LFL~~

502E78036D

502E7B712E

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 73.1 WIDTH: 59.9

NOTCH LENGTH: 73.0 DB: L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 78.5 WIDTH: 74.0

HEAD WIDTH: 10.0

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 14.5 C 10.5

RIGHT FRONT FLIPPER WIDTH: 11.5

SAMPLES COLLECTED: 2 blood dot spots

PLASTRON LENGTH: 59.9

10cc blood taken by T Work

WEIGHT: >100#

DESCRIPTIVE REMARKS:
2nd plastral scutes seams somewhat soft
4.9cc IM liquicimycin
Mototoi (#24) on 2nd L/R. laterals white paint

(3)

CAPTURE DATE, LOCATION AND METHOD: 06-07-00 KAWAINUI CANAL, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SKKM

OLD TAGS:

NEW TAGS: RFL

OTHER NEW TAGS: LHF 500F223E45 RHF 500E0F1131

TUMOR SCORE: 1

STRAIGHT CARAPACE-LENGTH: 48.5 WIDTH: 40.7

NOTCH LENGTH: 48.3 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 52.0 WIDTH: 46.0

HEAD WIDTH: 8.7 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 11.0 C 8.0

RIGHT FRONT FLIPPER WIDTH: 8.4 SAMPLES COLLECTED: 2 blood dot spots

PLASTRON LENGTH: 39.3 10cc blood taken by T-Work

WEIGHT: 39.0 #

DESCRIPTIVE REMARKS: 9-10th R. marginals missing and healed 1.7cc IM liquamycin Motorola #31 on 2nd L/R laterals, white paint

TUMOR #1 L eye (bottom lid)

(4)

CAPTURE DATE, LOCATION AND METHOD: 06-07-00 KAWAINUI CANAL, OAHU HAND/SNORKEL

PERSON RECORDING DATA:

OLD TAGS:

NEW TAGS: RFL

OTHER NEW TAGS: LHF 500F201C15 RHF 502E55272C

TUMOR SCORE: 0

STRAIGHT CARAPACE-LENGTH: 47.0 WIDTH: 36.1

NOTCH LENGTH: 46.8 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 49.5 WIDTH: 41.5

HEAD WIDTH: 7.3 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 9.5 C 6.5

RIGHT FRONT FLIPPER WIDTH: 7.4 SAMPLES COLLECTED: 2 blood dot spots

PLASTRON LENGTH: 37.3 10cc blood taken by T. Work

WEIGHT: 30.0#

DESCRIPTIVE REMARKS: 1.7cc IM Liquamycin Motorola #27 on 2nd L/R laterals, white paint

1

(5)

CAPTURE DATE, LOCATION AND METHOD: 06-07-00 KAWAINUI CANAL, OAHU HAND/SNORKEL

PERSON RECORDING DATA: SKKM

OLD TAGS:

NEW TAGS: RFL

TUMOR SCORE: Ø

OTHER NEW TAGS: LHF 502E562F19 RHF 502E7B4549

STRAIGHT CARAPACE-LENGTH: 48.2 WIDTH: 37.4

NOTCH LENGTH: 48.1 DB: 1 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 52.0 WIDTH: 43.5

HEAD WIDTH: 7.5 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 10.0 C 6.5

RIGHT FRONT FLIPPER WIDTH: 9.7 SAMPLES COLLECTI: 2 blood spots, 10cc blood taken by T. work

PLASTRON LENGTH: 40.0

WEIGHT: 39.0#

DESCRIPTIVE REMARKS: 1.7cc IM Liquamycin Mototool #30 on 2nd L/R laterals, white paint

(6)

CAPTURE DATE, LOCATION AND METHOD: 06-07-00 KAWAINUI CANAL, OAHU SCOOP NET

PERSON RECORDING DATA: SKKM

OLD TAGS:

NEW TAGS: RHF 500E0E3708 LHF 5019491548

TUMOR SCORE: 1

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 56.5 WIDTH: 44.0

NOTCH LENGTH: 56.4 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 60.0 WIDTH: 52.5

HEAD WIDTH: 8.0 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 12.0 C 8.0

RIGHT FRONT FLIPPER WIDTH: 9.8 SAMPLES COLLECTED: 2 blood dot spots, 10cc blood taken by T. WORK

PLASTRON LENGTH: 45.8

WEIGHT: 49.0 ℔

DESCRIPTIVE REMARKS: 3.0 cc IM Liquamycin Mototool #25

TUMORS
#2 RFF
#1 R. eye (anterior)
#2 L. eye (anterior)
#1 L. eye (posterior)

(7)

CAPTURE DATE, LOCATION AND METHOD:

06-07-00 KAMAINUI CANAL, OAHU SCOOP NET

PERSON RECORDING DATA: SKKM

OLD TAGS: 4135133430 RHF / 4136122E36 LHF

NEW TAGS: RFL / LFL

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 53.0 WIDTH: 43.1

NOTCH LENGTH: 52.9 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 56.5 WIDTH: 49.5

HEAD WIDTH: 8.5

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 11.05 C 7.9

RIGHT FRONT FLIPPER WIDTH: 9.3

SAMPLES COLLECTED: Mou

PLASTRON LENGTH: 42.5

WEIGHT: 46.0 #

DESCRIPTIVE REMARKS: Old Mouth #15 on 2nd L. IR laterals

(8)

CAPTURE DATE, LOCATION AND METHOD:

06-07-00 KAMAINUI CANAL, OAHU SCOOP NET

PERSON RECORDING DATA: SKKM

OLD TAGS: RH4137065170 / LH4135226046

NEW TAGS: RFL / LFL

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 47.1 WIDTH: 36.2

NOTCH LENGTH: 47.0 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 50.0 WIDTH: 41.5

HEAD WIDTH: 7.3

SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Y

TAIL LENGTH: T 9.0 C 6.5

RIGHT FRONT FLIPPER WIDTH: 7.8

SAMPLES COLLECTED: Mouth, Acanthophora

PLASTRON LENGTH: 37.5

WEIGHT: 28.0 #

GHB IDed-NOT Saved.

DESCRIPTIVE REMARKS: Old with tag #6

53

(9)

CAPTURE DATE, LOCATION AND METHOD:

06.07.00 KAWAINUI CANAL, OAHU SCOOP-NET

PERSON RECORDING DATA: Anna

OLD TAGS:

NEW TAGS: RHF ~~RFI~~ 500F2E7415 LHF ~~LFI~~ 500F225263

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 56.8 WIDTH: 44.7

NOTCH LENGTH: 56.7 DB: 0 L.O. VB: 1 L.O.

CURVED CARAPACE LENGTH: 61.5 WIDTH: 53.5

HEAD WIDTH: 8.6 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Yes

TAIL LENGTH: T 13.5 C 8.5

RIGHT FRONT FLIPPER WIDTH: 9.7 SAMPLES COLLECTI

PLASTRON LENGTH: 45.3 2 blood dot spots

WEIGHT: 58 10cc blood taken by T. work

DESCRIPTIVE REMARKS:

cc 3.0 LIQ Malotoxi #22

(10)

CAPTURE DATE, LOCATION AND METHOD:

06.07.00 KAWAINUI CANAL OAHU SCOOP-NET

PERSON RECORDING DATA: ANNA

OLD TAGS:

NEW TAGS: RHF ~~RFL~~ 500E0B076D LHF ~~LF~~ 500F1B706C

TUMOR SCORE: 1

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 48.4 WIDTH: 38.3

NOTCH LENGTH: 48.3 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 52.5 WIDTH: 46.0

HEAD WIDTH: 7.7 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Yes

TAIL LENGTH: T 10.5 C 7.0

RIGHT FRONT FLIPPER WIDTH: 8.5 SAMPLES COLLECTED

PLASTRON LENGTH: 39.4 2 blood dot spots

WEIGHT: 38 10cc blood taken by T. work.

DESCRIPTIVE REMARKS:

1.7 cc liq Malotoxi #26 on 2nd L/R. laterals, white paint

4 tumors LRF 1 #2 LHF 1 #2

(1)

CAPTURE DATE, LOCATION AND METHOD: 06.07.00 KAWAINUI CANAL OAHU SCOOP-NET

PERSON RECORDING DATA: Anna

OLD TAGS:

NEW TAGS: RF 501910620F

LF

TUMOR SCORE: 0

OTHER NEW TAGS: 502E4E082C

STRAIGHT CARAPACE-LENGTH: 55.3 WIDTH: 43.7

NOTCH LENGTH: 55.2 DB: 3 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 59.0 WIDTH: 49.0

HEAD WIDTH: 9.0 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Yes

TAIL LENGTH: T 11.0 C 8.0

RIGHT FRONT FLIPPER WIDTH: 9.2 SAMPLES COLLECTI: 2 blood dot spots

PLASTRON LENGTH: 44.4 10cc blood taken by T.Work

WEIGHT: 42

DESCRIPTIVE REMARKS:
3.0 cc lig
Molotes 23 on 2nd L/R laterals, white paint

(2)

CAPTURE DATE, LOCATION AND METHOD: 06.07.00 KAWAINUI CANAL OAHU SCOOP-NET

PERSON RECORDING DATA: Anna

OLD TAGS:

NEW TAGS: RFL

TUMOR SCORE: 3

OTHER NEW TAGS: LHF 502E4F0369 RHF 500E393A73

STRAIGHT CARAPACE-LENGTH: 49.3 WIDTH: 39.0

NOTCH LENGTH: 49.1 DB: 1 L.O. VB: 1 L.O.

CURVED CARAPACE LENGTH: 52.5 WIDTH: 47.0

HEAD WIDTH: 7.4 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Yes

TAIL LENGTH: T 9.5 C 7.0

RIGHT FRONT FLIPPER WIDTH: 7.3 SAMPLES COLLECTI: 2 blood dot spots

PLASTRON LENGTH: 39.7 10cc blood taken by T.Work

WEIGHT: 32 tumors

DESCRIPTIVE REMARKS:
1.7 cc lig
Molotes #29 on 2nd L/R laterals, white paint
Moderate emaciation

tail: 1#3 no molotes
2#1
REF 1#4
1#1, 1#2 dorsal betw. scutes of tip
left eye 1#1 int.

4

(13)

CAPTURE DATE, LOCATION AND METHOD: 06.07.00 KAWAINUI CANAL OAHU SCOOP-NET

PERSON RECORDING DATA: Anna

OLD TAGS:

NEW TAGS: RFL

TUMOR SCORE: 0

OTHER NEW TAGS: LHF 5019440F0B RHF 500F277741

STRAIGHT CARAPACE-LENGTH: 54.0 WIDTH: 44.1

NOTCH LENGTH: 5.39 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 58.0 WIDTH: 52.0

HEAD WIDTH: 8.2 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: Yes

TAIL LENGTH: T 12.0 C 7.5

RIGHT FRONT FLIPPER WIDTH: 9.7 SAMPLES COLLECTI

PLASTRON LENGTH: 44.1 - Mouth samples 2 blood dot spots

WEIGHT: 48 10cc blood taken by T. Work

DESCRIPTIVE REMARKS: 2.3 cc liq Mouth samples taken
Bordar-mild emaciation ~~Mildly emaciated~~
Mototool (#) on 2nd L/R. laterals, white paint

(14)

CAPTURE DATE, LOCATION AND METHOD: 06.07.00 KAWAINUI CANAL OAHU SCOOP-NET

PERSON RECORDING DATA: Anna

OLD TAGS:

NEW TAGS: RFL

TUMOR SCORE: 0

OTHER NEW TAGS: LHF 5019470429 RHF 500F173660

STRAIGHT CARAPACE-LENGTH: 56.2 WIDTH: 45.4

NOTCH LENGTH: 56.0 DB: 0 L.O. VB: 0 L.O.

CURVED CARAPACE LENGTH: 60.0 WIDTH: 54.0

HEAD WIDTH: 8.6 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE:

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED 2 blood dot spots

PLASTRON LENGTH: 44.3 10cc blood taken by T. Work

WEIGHT: 55

DESCRIPTIVE REMARKS: 10lb test
Fishing line entangled LFF - Cut deep into flipper
Very Swollen flipper proximal.
Not an Animal

(15).

END 6/7/00 KAWAINUI

CAPTURE DATE, LOCATION AND METHOD: 06.07.00 KAWAINUI CANAL OAHU SCOOP-NET

PERSON RECORDING DATA: Anna

OLD TAGS:

TUMOR SCORE: 1

NEW TAGS: RFL

OTHER NEW TAGS: LHF 502F052B19 RHF 502E222270

STRAIGHT CARAPACE-LENGTH: 53.0 WIDTH: 41.7

NOTCH LENGTH: 52.5 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 57.0 WIDTH: 51.0

HEAD WIDTH: 8.7 SEX: MALE, FEMALE OR UNDETERMINED: U

PPS: YES OR NO OR NE: yes

TAIL LENGTH: T 12.5 C 8.5

RIGHT FRONT FLIPPER WIDTH: 10.2 SAMPLES COLLECTI: 2 blood dot spots

PLASTRON LENGTH: 44.5 10cc blood taken by T. Work

WEIGHT: 51

DESCRIPTIVE REMARKS: LFF missing & healed 2.3 dc lig. Mototool #28 on 2nd L/R. laterals, white paint

tumors left eye 1 #1 in each corner right " 1 #1 ant. 1 #2 post.

(#25 sighted by P. Dutton) (1)

CAPTURE DATE, LOCATION AND METHOD: 08-08-00 Hanauma Bay Oahu hand-snorkel

PERSON RECORDING DATA: Christine

OLD TAGS:

TUMOR SCORE: Ø

NEW TAGS: LHF → 41360E3D68 RHF → 500E05443F

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 50.4 WIDTH: 39.9

NOTCH LENGTH: 50.2 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 54.0 WIDTH: 48.0

HEAD WIDTH: 8.4 SEX: MALE, FEMALE OR UNDETERMINED:

PPS: YES OR NO OR NE: yes

TAIL LENGTH: T 11.0 C 7.0

RIGHT FRONT FLIPPER WIDTH: 8.2 SAMPLES COLLECTI: 2 blood dot spots

PLASTRON LENGTH: 40.8

WEIGHT: 41.0

DESCRIPTIVE REMARKS: seen feeding + caught 2.3 LIQ

(2)

(2) #20

CAPTURE DATE, LOCATION AND METHOD: 08-08-00 Hanauma Bay, Oahu hand-snorkel

PERSON RECORDING DATA: Christine

OLD TAGS: RHF 502E4F3237 LHF 500F1B3E7D

NEW TAGS: RFL LFL

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 50.7 WIDTH: 40.4

NOTCH LENGTH: 50.6 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 54.5 WIDTH: 48.5

HEAD WIDTH: 8.2 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE yes

TAIL LENGTH: T 11.5 C 7.5

RIGHT FRONT FLIPPER WIDTH: 9.0 SAMPLES COLLECTI 2 blood dot spot

PLASTRON LENGTH: 41.3

WEIGHT: 46.0

DESCRIPTIVE REMARKS: #20 mototool (old) amansia in mouth

(3) neck 1#3, 2#2 RJH-1#2 LFF 1#4, 1#2 LJH-1#2 Leye 1#1, Reye 1#1

CAPTURE DATE, LOCATION AND METHOD: 08-08-00 Hanauma Bay, Oahu hand-snorkel

PERSON RECORDING DATA: CM IDP

OLD TAGS:

NEW TAGS: LHF→ 413612526E RHF→ 41361D131C

TUMOR SCORE: 3

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 52.3 WIDTH: 40.6

NOTCH LENGTH: 52.3 DB: L.O. VB: L.C

CURVED CARAPACE LENGTH: 56.0 WIDTH: 48.0

HEAD WIDTH: 8.9 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE yes

TAIL LENGTH: T 11.5 C 8.0

RIGHT FRONT FLIPPER WIDTH: 8.7 SAMPLES COLLECTED • 2 blood dot spot

PLASTRON LENGTH: 41.9 • skin biopsy on LHF for dent sample

WEIGHT: 44.0 not saved

DESCRIPTIVE REMARKS: extensive scarring in seams of plastron amansia in mouth, 2-3 LHQ 11th marginal Rt. has an oval notch

CAPTURE DATE, LOCATION AND METHOD: 08-08-00 Hanauma Bay Oahu snorkel hand

PERSON RECORDING DATA: CEM

OLD TAGS: LHF 413629 6E10 RHF 4136222211

NEW TAGS: RFL LFL

TUMOR SCORE: 0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 64.0 WIDTH: 48.4

NOTCH LENGTH: 63.9 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 69.0 WIDTH: 60.0

HEAD WIDTH: 10.3 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE yes

TAIL LENGTH: T 15.7 C 10.5

RIGHT FRONT FLIPPER WIDTH: 10.7 SAMPLES COLLECTED: 2 Blood dot spot

PLASTRON LENGTH: 50.8

WEIGHT: 83

DESCRIPTIVE REMARKS: amancia in mouth mototool #21 (old)

1

CAPTURE DATE, LOCATION AND METHOD: 3-27-01 Kawainui Canal Hand/Snorkel

PERSON RECORDING DATA: SME/SEL

423B2B445D

OLD TAGS:

NEW TAGS: RHF ~~RFL~~ LFL LHF 423F596251

TUMOR SCORE: Ø

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 61.2 WIDTH: 48.3

NOTCH LENGTH: 60.5 DB: 6 L.O. VB: 18 L.O.

CURVED CARAPACE LENGTH: 65.5 WIDTH: 56.0

HEAD WIDTH: 8.4 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

Axial = 22.0 Lateral = 23.2

TAIL LENGTH: T 13.0 C 8.5

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED: Blood dots

PLASTRON LENGTH: 48.8

Blood culture by T. Work

WEIGHT: 60.0

DESCRIPTIVE REMARKS: 3 Lat Right Raised 2 prominent pads ventral tail base

3.6 cc LFQ

mototool # 5D 2nd lat. right Thick scutes