

ROAD TEST

SCANNED 10/20/09

L2 EXAM = P. 106

L2 & L4 (MK10+)

2-24-26, 2009

3-12-2009 L11 P. 68

5/6-5/7/09 P. 98

"LIQUID NATION" COMPOSITION BOOK

100 Sheets • 9³/₄ in. x 7¹/₂ in.

2-5-08 = L4 & L18 SAT TAG TDR

Name BALAZS

School 2-15-08 - L2 SAT TAG FTDR
DEAN BANLEY

Grade 5-23 TO 5-25-08 RICE BALAZS AT ADDRESS
REMOVED L2 & L4

LAST LANIAKEA



ASIA PULP & PAPER CO. LTD.
Holmdel, NJ 07733 USA.

(16)

6/18-6/19/09
+ NEXT BOOK

HB03353



6 12668 02353 8

GEORGE BALAZS (800) 286-2877
PRODUCT OF INDONESIA

GEORGE BALAZS



2 OF 4

6/3/08

7

CUT

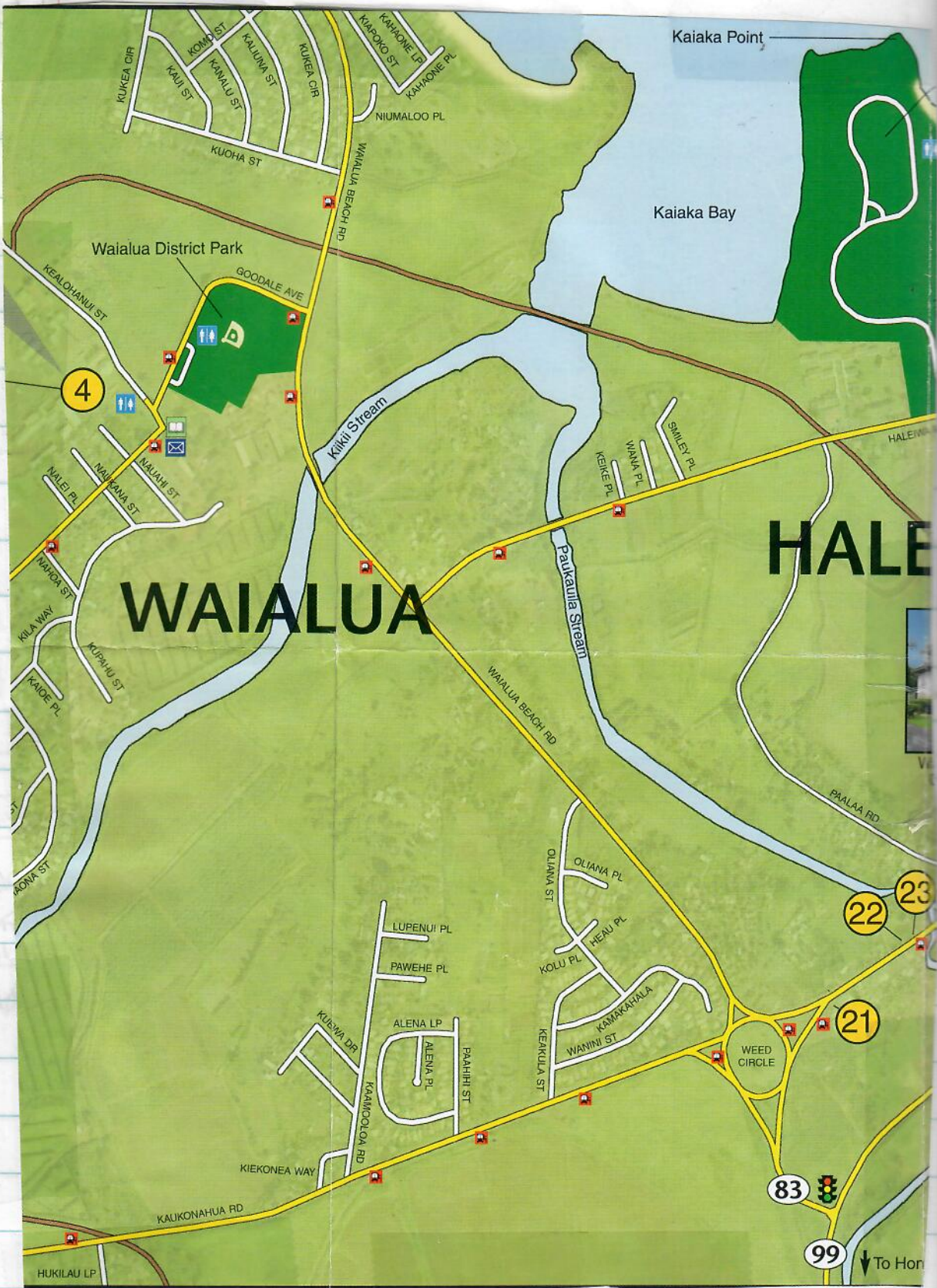
Date: Tue, 3 Jun 2008 13:45:55 EDT
From: Laniakeal@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Re: Tagging records for pit tags you recently read

Hi George,

I rode my bike up to the headwaters of the Anahulu Stream on Sunday. It was probably too late (0930) to see any "boulder baskers" or turtles surfacing. Two of my friends were on standup paddleboards there and I asked if they had seen any turtles. Their answer, "Lots...everywhere." I also found out Gary's last name ...Fujimoto, which may be helpful if we need to contact him. His mention of the Vietnamese using nets upriver concerns me with the high number of turtles. The 2007 Hawaii fishing regs for Haleiwa Harbor and Anahulu state ".net may only be placed 10 yds seaward and parallel to the Anahulu Bridge." If Gary can tell me where the nets are, I'd consider having our DOCARE officer check it out. So..that's the latest on the river...

Aloha,

Joanne



WAIALUA

HALE

4

22

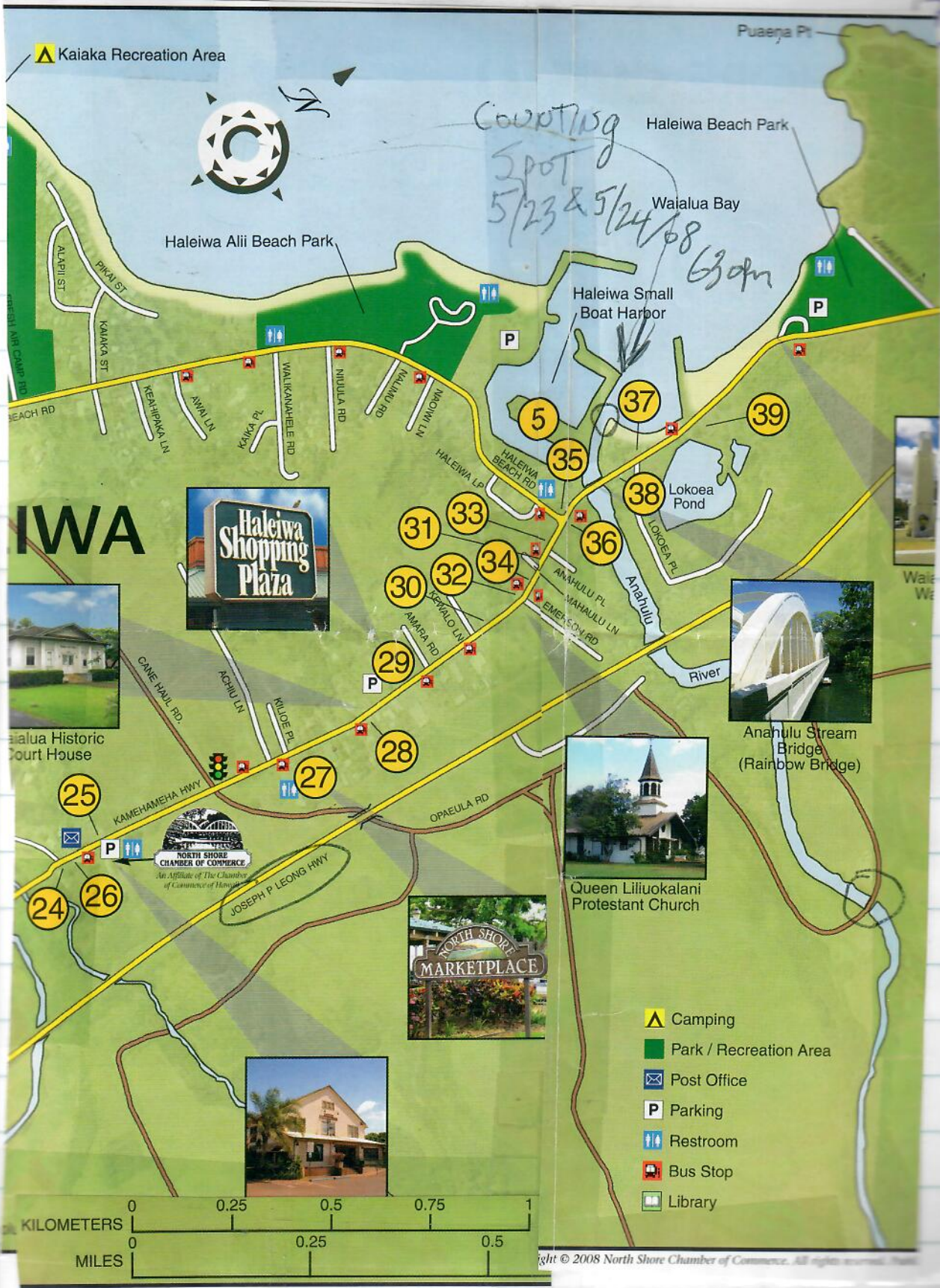
23

21

83

99

To Honolulu



Update as of 11/18/08:

08 satellite tracked movements of Anahulu green turtle "RT", Argos ID 230
ST-24 Duty Cycle: 6/24 SCL: 59.4 cm
Date deployed: 10/10/08 Days Transmitting: 39 days



12°W

158°06'W

158°00'W

Map Produced by
Green Turtle
Publications, LLC

Member North Shore Chamber of Commerce



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Handwritten notes at the bottom of the page, including a circled '81' and some illegible text.



GPR
RW 6/12/08 Laniakea Maturing Male ID =

Date: Thu, 10 Jul 2008 18:05:03 EDT
From: Laniakeal@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Photos

Hi George,

I received the three turtle photos in today's mail . I'm fairly certain that's L-10, by the missing, healed 9th, 10th L/R marginal scutes. He has unusual facial marking, too, if you happened to get a head shot. "Squirt" has a very pronounced way of hauling out onto the beach, usually fast and high on the front flippers.
Hope this helps!

Date: Thu, 10 Jul 2008 23:35:50 EDT
From: Laniakeal@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Re: Photos

Laniakeal

Hi there,

Looking at one of our old MTRP *Mototooled Turtles on the North Shore (05-30-06cbh)* sheets, it has L-10 listed as "immature."

Did you find this turtle interesting, for some reason?

Take care..

Joanne

83



6/12/08

[Redacted area]

6/12/08 8:15 minutes returning to the TD =

NOAA examines slain turtle

Officials of the National Oceanic and Atmospheric Administration's Fisheries Service observed knife marks on an endangered female green sea turtle that was apparently slaughtered over the weekend.

On Saturday a volunteer found the remains of the turtle beheaded with its organs cut out on Laniakea Beach.

The turtle, identified as L-20 but called Honey Girl by volunteers of Malama na Honu for her honey-colored shell, was the largest female of the 24 sea turtles that frequented the beach. Officials said she was a "resident basker" at the beach since 2005 and had nested at French Frigate Shoals in 2000.

According to a necropsy by NOAA Fisheries, knife marks were observed on one of the turtle's shoulder blades, or pectoral girdle. Muscles from the turtle's shoulder blades had been picked clean of meat, as was the turtle's belly, experts determined.

"The good body condition along with the lack of lesions in organs available for examination indicates this animal died rapidly and did not suffer from a chronic disease," officials said.

In a written statement, Laura Thielen, chairwoman of the Board of Land and Natural Resources, said, "These findings indicate that the turtle known as Honey Girl was a healthy female adult able to breed and help sustain the population of endangered green sea turtles in Hawaii. Her untimely loss saddens us all."

Hawaii's sea turtles are protected under federal and state laws.

The Department of Land and Natural Resources is investigating the case. Anyone with information may call 643-DLNR or NOAA Fisheries at 983-5730.



COURTESY KITV

Honey Girl, a green sea turtle, was found slaughtered Saturday at Laniakea Beach.

L20

THURSDAY, JULY 24, 2008

HAWAII

23

Lga

Date: Fri, 11 Jul 2008 21:10:53 EDT
From: Laniakeal@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Re: Photos

Okay..thank you for letting me know Squirt (aka "Lele") is going to be a guy.

Have a good weekend !

Aloha,
Joanne

Date: Thu, 22 May 2008 12:25:24 -1000
From: "Stacy [Kubis] Hargrove" <Stacy.Kubis@noaa.gov>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Papailoa Turtles

Hannah Eckberg
~~61-704~~ Papailoa Rd.
637-5170 (house on Papailoa Rd)
805-453-3336 (cell)

*Camille
book*

61731 Papailoa Rd

Concerned about people getting too close to the turtles and large amount of fishing line/hooks/weights on the reef. Asked if signs could be posted.

I had a good talk with her and explained that the turtles are doing really well in Hawaii and that people and turtles need to coexist in harmony. I also mentioned that the State is working on the recreational fishing/turtle interaction issue.

I told her you would not be calling back today but would get in touch with her before the weekend. She's going to the mainland on Sunday.

78

L4

Date:
From:
To:
Subject:

Okay.
Be a
Have
Aloha



2008 L2



August 2008

Reward Fund Growing Nationwide For Laniakea's Slain Sea Turtle

By LINDA DELA CRUZ

North Shore Neighborhood Board member Warren Scoville hopes to raise at least \$10,000 as the reward for information leading to the killer of the beloved sea turtle Honey Girl.

The fund for the animal, who was found dead July 20 on Laniakea Beach, had \$7,100 on account at press deadline.

When something happens in Scoville's district (Haleiwa Bridge to Waimea Bay), it's up to him to respond, he said. At the board's July 22 meeting, he personally donated \$500 to help find Honey Girl's killer.

"I wanted to get something started," he explained. "Then someone else donated, and it

grew like a forest fire!"

Donations from Kahala to Canada have come in, he said, including one from Stephen Wargel and his fiancée Sherry Mazzotti.

"We're really upset. We're livid," said Wargel, an Indiana resident who has never been to Hawaii. Shortly after talking with Scoville, Wargel built and donated a website to make it easier to collect money and information about the case. He heard about Honey Girl from his fiancée's mom, who scours news sites and shared the incident with her family. Wargel and Mazzotti love animals and support animal causes in their Indiana neighborhoods.

"The website has a guest book people can sign," said Wargel, who is the CEO of

Motion Dynamics LLC, a company that creates websites and sells construction equipment. "We put in Paypal too so people can donate online."

Scoville said he wants the reward to be a deterrent for turtle perpetrators.

"We will have a reward poster up soon — like in the old Wild West," he said. "I want to say thank you to the community for your concern and your contributions."

Checks made payable to Honey Girl Reward Fund can be mailed c/o Warren Scoville, P.O. BOX 859, Waialua, HI 96791. For more information on donating, call 637-3449 or log onto www.honeygirlrewardfund.com.

The NOAA hotline to report information on the case is 1-800-583-1964.

9/20/08

[WHAT EVER HAPPENED TO...]

HSB

Impact statement in works for North Shore bypass road

Question: What ever happened to the proposal to build a bypass for Kamehameha Highway on the North Shore so that traffic doesn't back up near Laniakea Beach?

Answer: The Legislature has budgeted \$1.2 million for an environmental impact statement on the proposed bypass or highway realignment, and the study should get under way soon.

The new road would jog inland and run parallel to the current highway through pasture and agricultural land, mostly owned by Kamehameha Schools. The idea has strong backing from residents frustrated by traffic and from environmental planners concerned with erosion along the coastline.

Traffic regularly grinds to a halt as beach-goers stream across the road to view sea turtles at Laniakea. During high surf, waves and sand sometimes wash onto the highway.

The project area covered by the environmental study reaches from Haleiwa to Waimea Bay, according to Tammy Mori, spokeswoman for the Department of Transportation. Parsons Brincker-

hoff was chosen as consultant and is in contract negotiations to clarify the scope of the study, she said. That process should be completed in November or December so work can begin.

"We're ready to get started," said Gil Riviere, chairman of the North Shore Neighborhood Board's Traffic and Transportation Committee. "Everybody in the community is very ready to get this thing moving."

The city acquired a three-acre parcel of land mauka of Kamehameha Highway to build parking and restrooms at Laniakea. If the road were moved inland of that parcel, beach-goers could get to the shore without walking across the highway. An expanded beach park would also allow the shoreline to move with the seasons without threatening the highway.

This update was written by Star-Bulletin reporter Susan Essoyan. You can write us at What Ever Happened to... Honolulu Star-Bulletin, 500 Ala Moana, Suite 7-210, Honolulu 96813; e-mail cityeditors@starbulletin.com or call 529-4747.



OCEAN WATCH

Susan Scott

North Shore turtle group needs helpers

Sick of economy-speak and election blather? Me, too. So here's some different kind of news, all good and all turtles.

The UH Press has a new book out, "The Book of Honu, Enjoying and Learning About Hawaii's Sea Turtles," by Peter Bennett and Ursula Keupèr-Bennett (139 pages, \$18.95).

The Canadian authors, both sport divers and underwater photographers, have visited Honokowai in West Maui annually since 1988. After seeing turtles there with tumors, the couple decided to combine their art, love of turtles and diving skills to help Hawaii's honu.

And help they did. Over the years, the retired middle-school teacher and computer worker made 2,500 dives and took countless photos, becoming the first to document the natural regression of turtle tumors.

The Bennetts' story is a fine example of people using their unique skills and passions to help Hawaii's wildlife.

Congratulations to these citizen scientists on providing turtle researchers with valuable information and in creating this beautiful book. The photos are fabulous.

Also, hats off to the U.S. Fish and Wildlife workers at Tern Island for rescuing 1,400 turtle hatchlings trapped in their nests this year. In addition, workers there also rescued 250 other hatchlings that made it out of their sometimes rocky and collapsing sand holes but then scurried away from the shore rather than toward it.

Since Tern Island was created by humans during World War II, and some of its beaches are not ideal nesting spots, it's fitting that human hands give turtle hatchlings there a boost. Without such dedicated assistance, 1,650 perfectly healthy little turtles would have died.

Another positive turtle report comes from Polihua Beach on Lanai, where a green turtle nest recently hatched, the first there in modern times. Only 33 of 104 eggs hatched, but still, that's 33 little bundles of good news.

Because the top eggs in the shallow nest were near the surface, turtle biologist George Balazs theorized that high temperatures and low rainfall caused the hatch rate.

Turtles nested at Polihua in ancient Hawaii — and now they're coming back.

So too are Hawaii's hawksbill turtles, called ea in Hawaiian. Although they're far behind the honu in terms of recovery, there's hope. Between 1989 and 2007, researchers have tagged 86 hawksbills on the islands of Hawaii and Maui.

In 2006, hawksbills laid 36 nests on five beaches in the south of the Big Island. Volunteers protected the nests and were rewarded with 4,300 hatchlings reaching the ocean.

In Hawaii these turtles' main foraging grounds, where they eat primarily sponges, are along the Big Island's Hamakua Coast.

The distances turtles travel for food foraging is important. In a recently published paper, Balazs and colleagues report that DNA tests show Hawaii's green turtles are a single genetic stock, separate from other Pacific island populations. This fact is crucial for conservation management because our turtles can now be assessed separately from other Pacific Ocean greens.

Countless volunteer hours went into all these positive pieces of turtle news. Inspired? The organization Malama na Honu, malamanahonu.org, needs volunteers at Oahu's North Shore turtle beach, Lanikaia.

Together we really do make a difference.

Susan Scott can be reached at www.susanscott.net.

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Photo copy sent to S. H. ...

Pacific Islands Fisheries Science Center
Marine Turtle Research Program
2570 Dole Street
Honolulu, HI 96822-2396

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 10/9/08

Crab TRAP
Haleiwa
(ANAHULU RIVER) NO.

CAPTURE DATE, LOCATION AND METHOD:

10/8/08 Deep Ecology R. found in ^{alive} ~~net~~ entangled in ~~net~~ connected
North Shore Drive ~~by~~ hook in its mouth Brought ashore - taken to dive shop. P/D by CS4 → MAC → H/UTH taken to A.

PERSON RECORDING DATA:

TUMOR SCORE 1 2 3 4

ORAL TUMORS EXT: YES OR NO YES NO

EMACIATION CODE 0 1 2 3 4

ARGOS ID ~~new~~ ARGOS ID = 2308 ^{new}
(Revised from turtle taken early 2008)

RHF: 44533E4162
LHF: 44522C6720

CLAW ATTACHED - REMOVED FROM MOUTH BY RM
NO LIVE ATTACHED

STRAIGHT CARAPACE - LENGTH: 59.4 cm WIDTH: 45.5 cm

NOTCH LENGTH: 59.3 cm DB: 0 L.O. VB: L.O.

CURVED CARAPACE LENGTH: 63.0 cm WIDTH: 53.5 cm

HEAD WIDTH: 9.3 cm LATERAL: 19.9 cm

PPS: YES OR NO OR NE Y SEX: Male, Female or Undetermined U

TAIL LENGTH: T 13.8 cm C 9.7 cm

RIGHT FRONT FLIPPER WIDTH: 11.2 cm

PLASTRON LENGTH: 47.4 cm

WEIGHT: 57.0 lbs #

HELD IN AIR 10-9-08 Thursday
2nd used STAY attached - previously on
CAN WAKE early 2008

DESCRIPTIVE REMARKS:

* ① small #2 tumor on (R) jaw hinge lower
* ② #2 on RHF
* ③ #1 on (R) side cloaca
* ④ small #1 on (D) eye lid left

Below jaw on smooth skin - NOT hinge.

* scute on plastron is breaking off

Released canoe club at ANAHULU RIVER 12 NOON 10/10/08

tagging.xls



Alive - What is the difference of
in grass. Landa. 01

SEA TURTLE STRANDING QUESTIONNAIRE:

"Stranding" is any injured, sick, dead, or abnormally behaving sea turtle ashore. Due to personnel safety concerns, we do not normally go into water over knee-deep to salvage a turtle, however we do record such reports. A physical response will be made to stranded (live or dead) turtles when appropriate and possible. Personnel and other resource limitations, including other cases in progress, may cause delays.

Name: Tony sent 690-56 turtle Date/time of call: 12/10/08
Mailing address: (optional - to send sea turtle literature) 690-56 **Phone: 990-2856
62-148 Lokoia Pl. Email: 96712

LOCATION

Where is the turtle located? (name and specific area of beach, driving directions, etc.) Haleiwa-house is across from Surf N Sea. Anahulu River.

Is the turtle on shore? If not, what is the distance from shore/ depth of water? yes, in contact's yard under linear residents' only sign.
Are there any obvious signs as to the cause of death/injury? Description? (tumors, fish hook/ line, etc.) OVER →
None

MTRP USE ONLY: Notes: * Consulted by GHB * Told contact to keep turtle where it is, and any complications arise to call GB's cell
Name: TH
Literature sent?

| | | | |
|---|----------------------------|---------------------------|---|
| SSG Pager 288-5685 288-0023 | NMFS-LE 541-2727 | BIG ISLAND Hilo | Maui Kihei area |
| DOCARE 643-3567- statewide | 800-853-1964 | 327-7780 pgr. | * Didn't respond due to flash flood warning, & all other Maui areas |
| 587-0077 Oahu | | 327-7794 pgr. | Minds. |
| 873-3990 Maui | | 327-7795 pgr. | 893-3172 pgr. |
| 974-6208 Hilo/ 327-4961 Kona/ 887-6196 Waimea | | Kona | 893-3050 pgr. |
| 274-3344/ 274-3521 Kauai | | 881-4200 | |

TURTLE

Is the turtle alive or dead? (A) D Unknown

Is it possible for one person to lift and carry the turtle? (D) ^{maybe} N

"Best guess" of the weight of the turtle? _____ lbs.

About how large is the turtle (shell length)? Size of car tire

ANAKHULU

Alive- What is the behavior of the turtle? (observed swimming, lethargic, buoyant, responsive, etc.)

ON GRASS. CONTACT NOT CLOSE ENOUGH TO TOUCH IT, AS IT MOVED QUICKLY, HE BARKED AWAY

How long have you observed the turtle? SINCE FAM

Dead- What is the condition of the turtle? (rotten, fresh, intact, etc.) _____

Is it above the high tide mark so it will not float away? _____

How much longer will you (the contact) be home/ on site? LIVE HERE

Any evidence of law enforcement violation? If yes, please describe briefly: _____

98

LANIAKEA

Rice & BACAZS

MAY 6, 2009

~ 330pm L4 & L21

L4 take to Audrey's out BASKING -
for transmitter removal

see page

174

Thursday

MAY 7 2009

Thursday

BASK Audrey Jockos

LH large juvenile

EXISTING

4452730365

SCL 67.2 cm

Subadult ♀ (?)

5/7/09 SCL 85.8



470C6F623C

new LH

Jockos BASKING

Audrey's Jockos

BASK EXISTING 4/1357 D/D 11

5/7/09 SCL = 92.9

maturing MALE?

short tail but longer than it should be for a female

5/7/09 PM
1652H Basking at Andrix Sutherland Jockos

(99)

PIT 470 B 2 B 2 2 7 - RH NO Tag on LH?
SCL = 83.5

5/7/09 small Basking at 1650
MT #09

PTT = 470 B 2 0 3 0 0 9 LH
SCL = 62.3 cm Jockos

~~PIT~~ end 0

Kamaile Nichols

94-517 Poloahilani St

Mililani, HI 96789

Dear Mr. Balazs,

February 4, 2009

At long last, here is a copy of the article I wrote on the Laniakea turtles that was published in the UCLA journal. The process took a while, but better late than never!

Thank you for your invaluable assistance. I hope you enjoy reading the article.

Aloha,
Kamaile

Karrick Nichols



January 4, 2002

While I was out
with the 1000
other lots than

reference I

tha,
maile

Released
Laniakea 1832h
Photos
L2

Magnet turned transmitter on 1804h

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

Basking

2/24/09 1420h LANIAKEA

PERSON RECORDING DATA: John White

Tues day

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

LH 4233400066

RH 422D536 E6C

L2 " 2nd lat L&R

SPOT 5 SAT 50154

RHF ID=50154 AEGOS

LHF WC=08S0601

STRAIGHT CARAPACE - LENGTH:

87.1 cm

WIDTH:

68.1 cm

NOTCH LENGTH:

- cm

DB:

Ø L.O.

VB:

Ø L.O.

CURVED CARAPACE LENGTH:

93.0 cm

WIDTH:

85.0 cm

HEAD WIDTH:

- cm

LATERAL1:

- cm

LATERAL2:

- cm

PPS: YES OR NO OR NE

-

LATERAL3:

- cm

SEX: Male, Female or Undetermined

F

TAIL LENGTH: T

- cm

C

- cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

- cm

PLASTRON LENGTH:

- cm

WEIGHT:

224.5 #

INTO EXISTING PVC CARRIER 1635h.

DESCRIPTIVE REMARKS:

MK9 # 0290197 second coat done
MK9 in holder at 1630 - w/ Ekstomer - Depth = 30 sec
added edging to glass + Kalarow bow - Temp = 30 sec

~~244.5~~ 244.5 18.7 = 20

2/09

HPA

Dear Mr. Balazs -

Whata fun time we had on O'ahu! Thanks for being such a great teacher to me and the other students. I had a lot of fun at Laniakea. Also - thank you for letting us see the necropsies! They were fascinating! (Although smelly.) And I think it was really cool seeing the inside of a turtle! It was nice seeing you again! Thanks for everything. Take care!

From,
Baylin Kojima

Revised 08/21/07

NOAA Fisheries
Pacific Islands Fisheries Science Center
Marine Turtle Research Program
2570 Dole Street
Honolulu, HI 96822-2396

BASKING

SEA TURTLE TAGGING FORM

LI

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

2/25/09 1350h^P - 1400h

PERSON RECORDING DATA:

| | | |
|---|----------------------|-----------------------------|
| TUMOR SCORE <input type="text" value="0"/> | OLD TAGS: | NEW TAGS: |
| ORAL TMRS EXT: YES OR NO <input type="text" value="—"/> | <input type="text"/> | RHF <input type="text"/> |
| EMACIATION CODE <input type="text" value="0"/> | <input type="text"/> | LHF <input type="text"/> |
| MT# | LI 2nd lat L & R | |

STRAIGHT CARAPACE - LENGTH: cm WIDTH: cm

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

CURVED CARAPACE LENGTH: cm WIDTH: cm

HEAD WIDTH: cm LATERAL1: cm LATERAL2: cm

PPS: YES OR NO OR NE LATERAL3: cm SEX: Male, Female^d or Undetermined

TAIL LENGTH: T cm C cm

RIGHT FRONT FLIPPER WIDTH: cm

PLASTRON LENGTH: cm

WEIGHT: lbs

DESCRIPTIVE REMARKS:

184.5
18.6

165.9

Penis (extended) come out

SAMPLES COLLECTED:

MR. Balazs,
Thank you so much for
allowing me to participate in the
turtle tagging program on oahu
from Feb 24-26. I learned so
much from the trip, especially
from the necropsy. It really
impressed me to see the inside
of a turtle, what really goes on
in its body. I would have never
thought I would experience any-
thing like it.

Thank you again,

Kimi Cantyne

2/09
HPA

Thank you!



401

L&R jaw hinge rugose tissue

Revised 08/21/07

NOAA Fisheries
Pacific Islands Fisheries Science Center
Marine Turtle Research Program
2570 Dole Street
Honolulu, HI 96822-2396

new MT: 6A

2nd lateral L&R

Right eye
posterior
thick tissue

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT: 2/25/09
CAPTURE DATE, LOCATION AND METHOD:

Scoop Net Lamiakoa 1420

PERSON RECORDING DATA: Boeka

TUMOR SCORE

0

OLD TAGS:

LHF 445 201 276A

NEW TAGS:

RHF

ORAL TMRS EXT:
YES OR NO

—

RHF 445 249 132A

LHF

EMACIATION CODE

0

MT#

STRAIGHT CARAPACE - LENGTH:

61.2 cm

WIDTH:

51.3 cm

NOTCH LENGTH:

61.2 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

— cm

WIDTH:

— cm

HEAD WIDTH:

— cm

LATERAL1:

24.8 cm

LATERAL2:

23.6 cm

PPS: YES OR NO OR NE

—

LATERAL3:

19.7 cm

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

— cm

C

— cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

— cm

PLASTRON LENGTH:

— cm

WEIGHT:

97.5 - 18.7 = 78.8

DESCRIPTIVE REMARKS:

Knob on RF Humorous Dorsal Flipper
possible from previous flipper break
Red algae in mouth

~~Right eye
superior~~

97.5
18.7
78.8

12-18-03 1st capture Lamalaea near shore

tumor rank 1

4-1-04 ~~recap~~ ^{sight} Honolulu

SCL=54.5

Weight = ~~44~~ 43.0#

1 tumor = left eye.

1 tumor = right eye.

leeches in corner of mouth

Mt = A

901

L&L jaw hinge response tissue



Aug 2011

Dear George.

Signs about turtles are received - GREAT! I'll mount them on stakes to stick in the sand. Very official looking. Now I won't have to yell!



Ms. Audrey Sutherland
61-551 Pohaku Loa Way
Haleiwa, HI 96712

Audrey

© HMK, LLC



Revised 08/21/07

NOAA Fisheries
Pacific Islands Fisheries Science Center
Marine Turtle Research Program
2570 Dole Street
Honolulu, HI 96822-2396

MT-67
Second Lateral - L+R

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

Scop Net Lanikouka 1456 2/25/09

PERSON RECORDING DATA: Beeka

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

1

EMACIATION CODE

0

OLD TAGS:

Empty boxes for old tags

NEW TAGS:

left hind
right hind

470A047E67
470D45104F

STRAIGHT CARAPACE - LENGTH:

53.6 cm

WIDTH:

43.4 cm

NOTCH LENGTH:

53.4 cm

DB:

~~0~~ L.O.

VB:

~~0~~ L.O.

CURVED CARAPACE LENGTH:

— cm

WIDTH:

— cm

HEAD WIDTH:

— cm

LATERAL1:

21.3 cm

LATERAL2:

17.9 cm

PPS: YES OR NO OR NE

~

LATERAL3:

15.1 cm

SEX: Male, Female or Undetermined

☐

TAIL LENGTH: T

— cm

C

— cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

— cm

PLASTRON LENGTH:

— cm

WEIGHT:

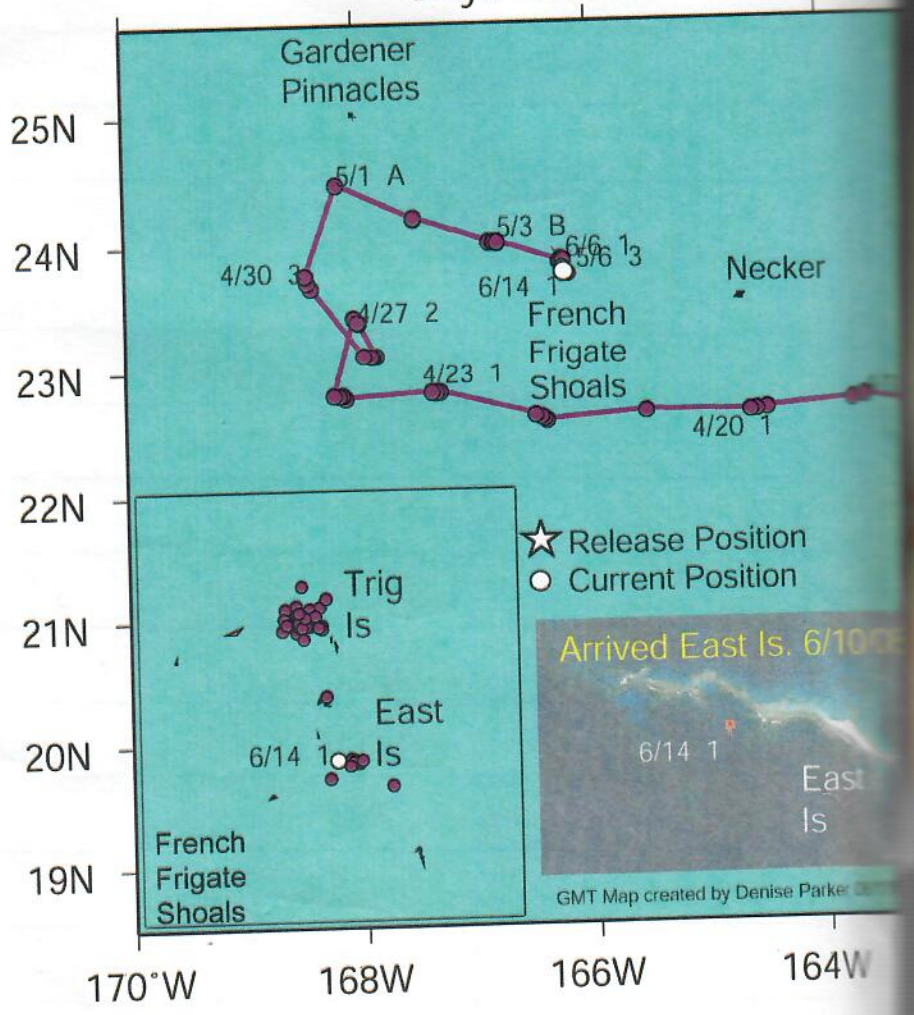
47.5 lbs

DESCRIPTIVE REMARKS:

red algae in mouth.
7th marginal left - eroded + fresh, banged on rocks
tip of right front flipper slightly missing - healed

2008 satellite-tracked moose
Pukalani-Yuka

ST-24 Duty Cycle: 6 hrs on, 24 hrs off
Days Transmitting satellite
Days in transit between Land



Map:

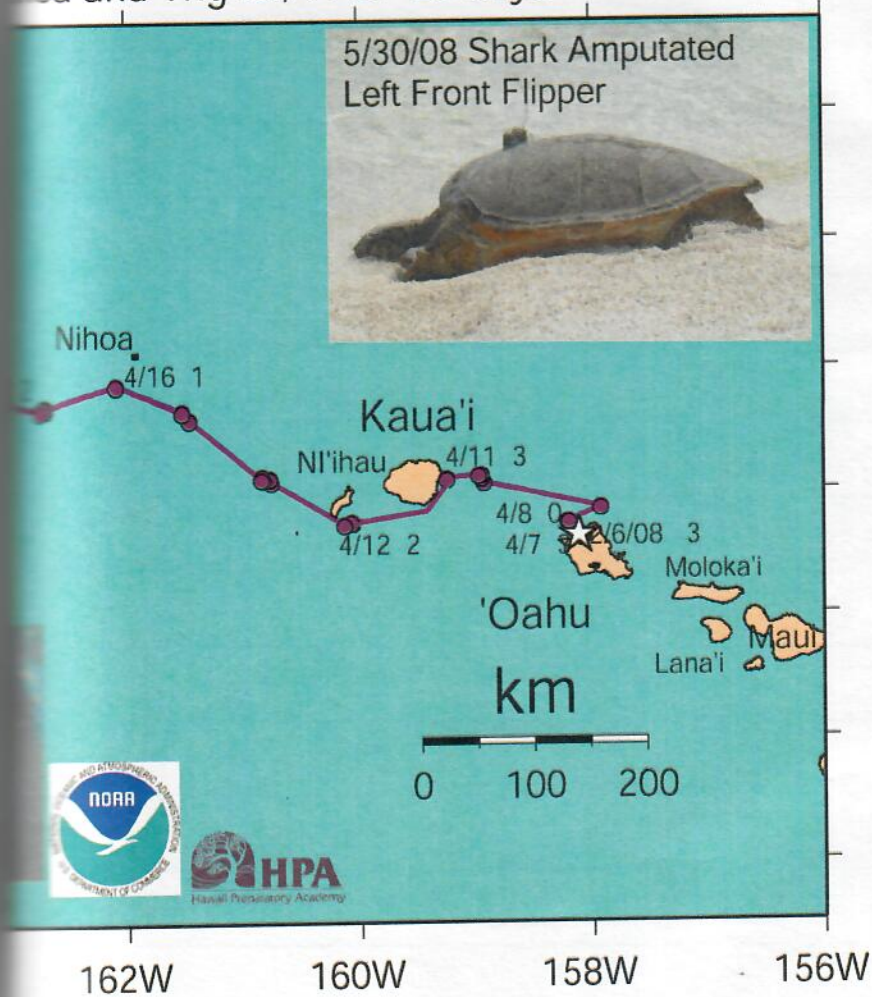
movements of female green turtle

(8), Argos ID 23044

SCL: 87.5 cm Date deployed: 2/6/08

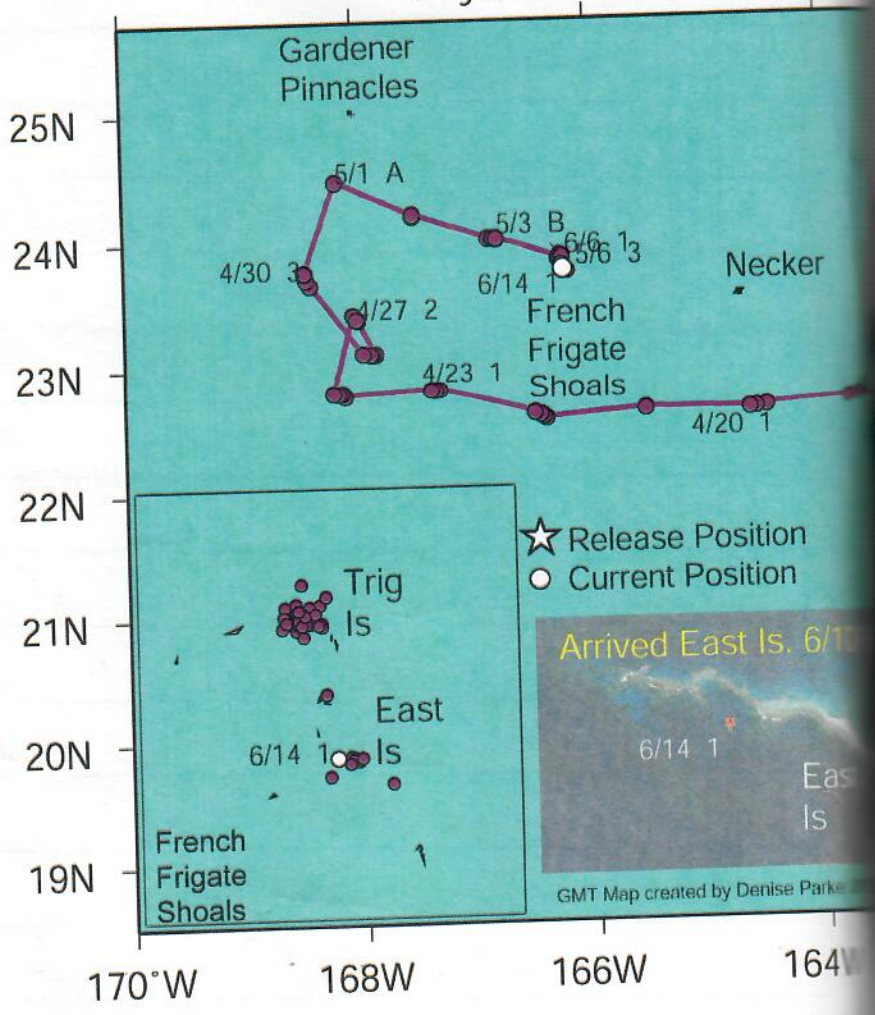
Deployment: 129 days

area and Trig Is., FFS: 29 days



2008 satellite-tracked moose
Pukalani-Yuka

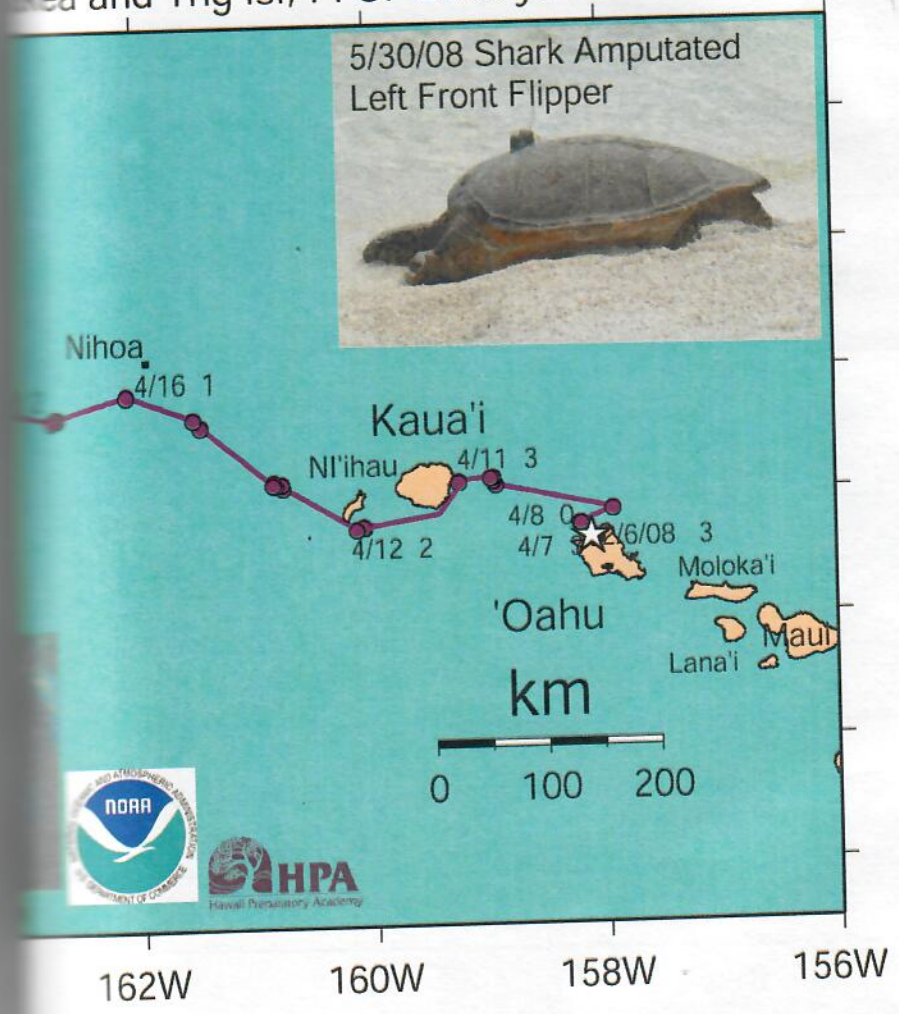
ST-24 Duty Cycle: 6 hrs on, 24 hrs off
Days Transmitting
Days in transit between LA



Map:
Movements of female green turtle
(13), Argos ID 23044

SCL: 87.5 cm Date deployed: 2/6/08
Deployment: 129 days
Kauai and Trig Is., FFS: 29 days

5/30/08 Shark Amputated
Left Front Flipper





Haleiwa Joe's Seafood Grill

66-011 Kamehameha Highway
>> (808) 637-8005
>> www.haleiwajoes.com

When it comes to Haleiwa Joe's, a popular North Shore hangout and eatery since 1988, it's all about location, location, location.

The first restaurant after the famous Anahulu Stream Bridge, Haleiwa Joe's offers up some of the finest North Shore waterfront views along with its fresh catch.

"Our location is phenomenal. You can't get through Haleiwa without driving right by us," said Chris Pirrone, Haleiwa Joe's operations manager.

The location is so picturesque that in the past it attracted many other entrepreneurs, including famed real estate and railroad magnate Benjamin Dillingham. In 1898, Dillingham opened a hotel called Haleiwa, or House of the Iwa, for the birds that frequented the region. The hotel was built on the site where Haleiwa Joe's stands today, according to the North Shore Chamber of Commerce.

In more modern times, Dillingham's hotel was replaced with a circa 1970s-style hotel, called the Sea View Inn. After that modest hotel closed, the Chart House took over the spot but eventually gave way to Haleiwa Joe's.

HSB

Anahulu Stream Bridge

Yes, even quaint little Haleiwa town is developed enough to have a set of those familiar McDonald's golden arches; however, the more famous arches on the North Shore belong to the landmark Anahulu Stream Bridge.

Sometimes known as the Rainbow Bridge for its two concrete arches that stretch across the water, the Anahulu Stream Bridge has been a focal point along the stretch of Kamehameha Highway that runs through Haleiwa town for nearly 87 years. The bridge, which spans Anahulu Stream, is the gateway into the picturesque little frontier town and has become a favorite of artists and photographers alike. It was even featured in the hit 2002 movie "Blue Crush," an action romance about a surfer girl who falls for a professional football player.



Listed on the Historic Bridges of the U.S. Web site, Anahulu Stream Bridge is 161.1 feet long by 17.7 feet wide. The bridge is 80.1 feet long at its largest span and its vertical clearance above deck is 16.7 feet, according to the site.

Built in 1921, the bridge got a \$3 million facelift in 2006. The rehabilitation project took the City and County of Honolulu 17 months.

Residents move fast to avoid water

12/12/08 HSB A5

By Rob Shikina
rshikina@starbulletin.com

Flooding water scooped up Cyprian Galbiso's red 1991 Volkswagen Jetta yesterday, sending it down Kaukonahua Stream.

"It was floating, just went out, just like a boat," said the 46-year-old painter.

Galbiso lives in one of six wooden duplexes in Otake Camp in Waiialua alongside the stream.

After the water receded, mud covered the ground, and residents hosed down their stairs and used a wheelbarrow to carry away silt and debris.

Otake Camp resident Ashley Hagmoc, 21, walked through the mud wearing white dirt-bike boots up to her shins to grab some clothes.

She was upset the Civil Defense, police or firefighters never warned the neighborhood as they usually do.

"We woke up from our neighbors," she said. "There was nobody the whole day."

Phetsamone Souksamly, 51, lost about \$30,000 in farming equipment on his Kaupe Road farm. Within 15 minutes the property flooded to his chest, and he had to flee with only his clothes and a towel on his head.

Souksamly said it was the busy time of year for his lei flower business.

"Bad, so bad," he said.

Also on Kaupe Road, several feet of water ran through the Nery family's three-bedroom basement apartment.

"The icebox was floating when I opened the door," said



Two men waded through the water in Haleiwa near the Giovanni's Shrimp Truck yesterday.

NOAH HAMILTON / SPECIAL TO THE STAR-BULLETIN

Tony Nery, 34.

After the water passed, his wife, Jenn, stood in ankle-deep water washing muddy clothes. She only had enough time to round up the kids, save important documents and grab the baby albums and her father-in-law's ashes.

"It was so fast," she said. "I was crying."

It will be a bleak Christmas now that her two children's presents were ruined.

"After a while you realize it's all materialistic," she said. "You realize everyone's OK."

Water also flooded Haleiwa Road, carrying silt, picking up cars and flooding businesses

and homes.

Mike Lyons, chairman of the neighborhood board, helped wash the silt off the Killer Tacos parking lot. He said residents have been complaining for decades about the flooding danger. A flood planning meeting, scheduled before the storm, will be held Wednesday.

"It's ridiculous," he said. "Everybody's saying we have a problem."

He said flooding in Haleiwa could have been prevented if the mouth of Kaiaka Bay had been cleared out.

About eight businesses and several homes in the area were flooded, he said.

By about 2 p.m. seven families had checked into the Red Cross emergency shelter at Waiialua Intermediate and High School.

"Most of these families only came here because they lost everything," said Red Cross volunteer Moana Pacatang. "Their houses are completely flooded."

James Omoto and his wife lost their mushroom farm, and their home on Crozier Drive was flooded.

Mrs. Omoto, who declined to give her first name, said she had seen nothing like the chest high-water before.

"It is what it is," James Omoto said. "I'm blessed my family is OK."

人気ツアー No.3 ノースショアまるごと 満喫シャトル



広大なパイナップル畑を抜けると、そこは懐かしい70年代のおもかげが残る街ハレイワ。日本人ドライバーがとっておきのスポットへとお連れします! ガーリックシュリンプや松本シェーブアイス、パタゴニアなど有名なお店がある街で2時間たっぷりの自由行動♪「ショッピング派」と「ビーチ派」とに分かれて楽しめるのは当社だけ! リピーター続出も納得☆

カウカウ特別価格

(ホテルより送迎・スノーケル・ビーチマツドレンジャー付き)

大人・子供 ~~\$47~~ → \$35

- 9:00頃 ワイキキ出発
- 10:00頃 トールプランテーションで休憩
- 11:00頃 ワイメアビーチへ
- 11:30頃 海がめのあるラニアケアビーチへ
- 12:00頃 ハレイワタウンでランチ&散策 (ショッピングまたはビーチを選択)
- 15:30頃 ワイキキ到着



5/11

KAUKAU ノースショア <クーポン> 11-08

★マークの箇所 子供連れ歓迎
送 送迎有 座 座敷有 持 持ち帰



★冬のノースショアは波が大きくサーフィンのメッカ!!



★冬のノースショアでも波の小さい安全で美しいとっておきのビーチへご案内します!安心して遊べます♪

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10%OFF
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●予約時にカウカウを見たと言っ
て下さい●1枚につき1グループ●他券
との併用不可●08年11月16日まで



「私、マサが皆様をご案内しま
す。」

エイチツー・ハワイ
H2 Hawaii
(ワイキキ送迎あり)
☎ 342-1541 7日
📍 ノースショアツアー
🕒 7:00~23:00 (予約)
📅 無休
👥 日本人スタッフ

★☆☆ツアーのコース★☆☆
①この木なんの木②バイナップル
農園(下ルプランテーション)
③お好みのビーチで遊ぶ(お子様で
も泳げるビーチへご案内します)
④本場カフクのシュリンプワゴン
でランチ⑤海亀とご対面⑥ハレイ
ワタウン。あの有名なマツモトシエ
イブアリスにもご案内。★ガイドは
イベントの司会やラジオのDJな
どの経験を持ち、ノースショアの裏
の裏まで知りつくした超ベテラ
ン!爆笑トークが連発で絶対に飽
き込みでも親切で安心と大評判!♥

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◆ボディボード(2~3名様で1枚)、
スノーケルセット、ビーチマット、ラケッ
トボール、フリスビー、ハレイワタウンマ
ップ●泳ぐ方は水着、タオル持参!
*子供料金はお問い合わせ下さい!



ウミガメと記念撮影♥カメ
には触ってはいけません。

遊ぶ
エイチツー・ハワイ
見る、食べる、遊ぶ、買う!をせくんぶ楽し
むなら、全行程9時間以上のこのツアー!!

ワイキキ送迎あり

カンゲキ!

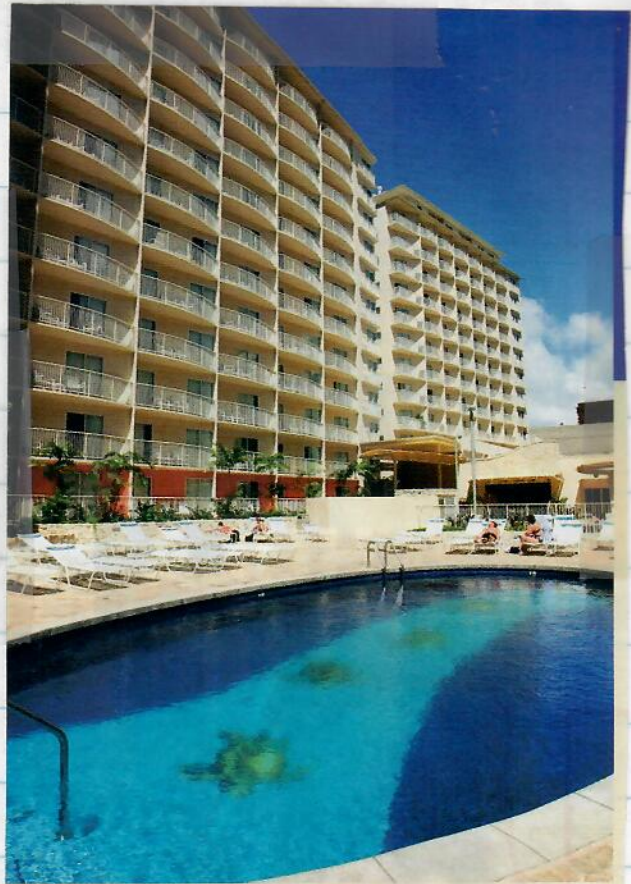


ドルフィンと海ガメ 龍宮城ツアー

2008年るるぶハワイ ベスト25特選ツアー

イルカと泳げる確率96%以上オアフ島の西のリゾート地コオリナ・マリーナから、世界でも数少ない野生イルカの生息するマカハの海へ。ハワイの海を知り尽くしたキャプテンの案内でジャンプするイルカの群れとご対面。海中で好奇心旺盛なイルカとの触れ合いや海亀・サンゴ礁に棲む熱帯魚など感動的な出会いが待っています。

所要時間: 約7時間
軽食、ランチ付き **大人137ドル 子供115ドル**



ワイキキ・ビーチウォーク®は約40件のショップやレストランがあり、



ファンダイブ

オアフ島・有名ダイビングポイントでファンダイビング! 青く・美しいハワイの海に突如現れる沈船や飛行機...海がめやマンタが舞うハワイアンウォーターブルーの世界へベテランインストラクターがご案内致します。安心・安全の少人数制により、初心者やベテランダイバーの方までゆっくりとお楽しみ頂けます。

大人 \$125

*Cカード取得されている方が対象となります。
*ホテル送迎 ・ボート乗船料 ・器材レンタル



Green sea turtle found dead



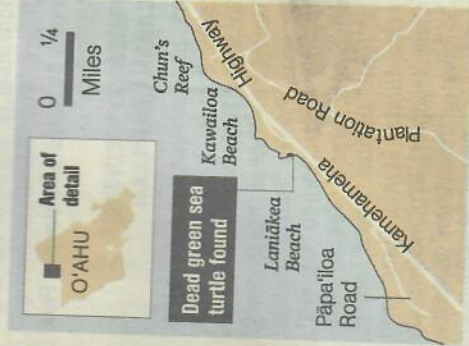
PATRICK DOYLE | Special to The Advertiser
Honey Girl, a green sea turtle, was found dead yesterday at Laniākea Beach with her shell and head cut off. The 200-pound female, who was thought to be about 30 years old, was also missing a flipper.

Laniākea Beach regular 'Honey Girl' apparently slaughtered for meat

BY SUZANNE ROIG
Advertiser Staff Writer

The state is investigating the killing of a green sea turtle found by beachgoers on Laniākea Beach near Hale'iwa yesterday morning.

The turtle, one of a group of 20 that regularly comes to bask in the sun on the beach commonly called "Turtle Beach," had its shell and head cut off and was missing a flipper, said Patrick Doyle, project coordinator for Malama Na Honu, a volunteer group of turtle guardians.



The Honolulu Advertiser

"It was slaughtered," Doyle said. "Her name was Honey Girl and she was a regular at Laniākea

NUMBERS TO CALL

To report a marine turtle stranding or sighting, call 983-5730.

Anyone with information about the death of the turtle should call 643-DLNR.

Beach.

"We were all in tears. She came up almost daily."

The 200-pound female sea turtle was found partially buried in the sand. She is thought to be about 30 years old, a turtle in the prime of her reproductive life.

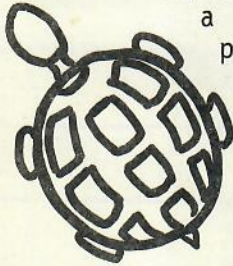
The green sea turtle is consid-

SEE TURTLE, A36

21st July, 2008

Dear George,

Very sad to hear about
the slaughtered basking sea turtles.
On Oahu, nothing less than
a 24-hour armed guard will
protect them. I am still
battling the rigours of
old age. I hope that you
are keeping well.



Aloha,

Bansley

DirkDiggler wrote:

Why the hell would you eat a sea turtle?

This is 2008! If you are hungry take your butt to McDonald's for a 99 cent cheeseburger!

mokebla wrote:

With all the free chickens running around and dogs, they went for the turtle. Go figa, but yes turtle meat is really good. Back in the 50's and the 60's we ate alot of turtles, when I was growing up on the northshore.

sfbayarea wrote:

It's funny how a "turtle" article gets more comments than a "murder" article, and more comments than a "kindergarten" article.
07/20/2008 8:21:57 p.m.

HokuzDad wrote:

What's the difference between eating ahi, beef, pork, chicken, and turtle? There was a time when eating turtles wasn't against the law. Let's make some laws against eating the other meats I mentioned. C'mon people call your elected law making officials and your connections in high places and see what they tell you. Give me a break....All you cry babies should turn vegetarians, as for me, I'm just find with it.

ForkinHaole wrote:

I wonder how many of these "turtle lovers" are "pro abortion" and don't care that HUMAN BABIES are murdered and thrown into trash cans for disposal every day? Not many I bet. But let a turtle die and it's the end of the world as we know it. It is sickening the way our society's values are going.

07/20/2008 3:30:20 p.m.

HawaiiNei wrote:

These hippies are crazy. Since the ban on hunting turtles their populations have increased to a unhealthy number. DLNR should open up turtle hunting for a few months out of the year to decrease the population. The haoles would flip though...

tardboyfromhell wrote:

I recently went to Starbucks and I saw Turtle Brownies and I asked the barista if they contained real turtle. To my disappointment, she said no. You would think at those prices the least they could do is practice truth in advertising.

07/21/2008 12:45:38 p.m.

woscreenname2 wrote:

Replying to sfbayarea:

You are right on. It really is sad when a TURTLE gets more coverage than a human murder! How about being realistic everyone...why spend so much time on something

that is so less important than a human life...? Why not be concerned about the little girl missing in Florida or the servicemen lost in the B-52 incident? You people are just sad...and I just don't get it.

2cents

Waipahu, HI

Sunday Jul 20

Look at the pictures. The turtle was harvested for its meat not just killed and left to rot.

(07/20/08 11:39PM) T~@T Randy L. Prothero - Hawaii REALTOR~«

I hope they catch them and make an example of them. When I came to Hawaii 26 years ago, we never saw sea turtles. Now I see them everywhere. Let's keep it that way.

2cents

Waipahu, HI

Sunday Jul 20

mmm...tasty! we should farm these things so we can sell the meat. killing an endangered species is illegal. but at least it was eaten. and i bet the person loved every morsel.

One voice

United States

Sunday Jul 20

If so, he/she should now run to their doctor to be tested for Hepatitis/Liver disease as Turtles are carriers. I live nearby and a similar thing happened on our beach. This is nothing short of murder because these creatures are so docile and have grown to accept human interaction-few demonstrate the normal fear reaction reptiles have toward predators. As cool as it is to be close to them, we may be creating the problem for turtles to not be able to recognize a malicious predator such as the human who murdered this one by befriendng them. We need to be wary that the human dangerous animal walking earth is the psychotic human.

Private sHell

Honolulu, HI

Sunday Jul 20

This was clearly wrong from a legal standpoint, and also from a moral standpoint because the turtles have been conditioned to accept humans as non-threats. It's like shooting fish in a barrel. I love turtles, the ocean, and am concerned about the environment.

All that being said, though, I'm still sorta in conflict with some of the arguments being raised because I (and I'd guess, many of us here) are meat-eaters. It seems as though we tend to view certain animals as cute, lovable, etc., etc., whereas creatures like pigs, cows, chickens, fish, etc. are OK to kill, after being raised in inhumane conditions. The inconsistency bothers me...

22/

IAII

Turtle found slaug

A group dedicated to protecting the sea creatures identifies the mutilated carcass

By Rob Shikina

rshikina@starbulletin.com

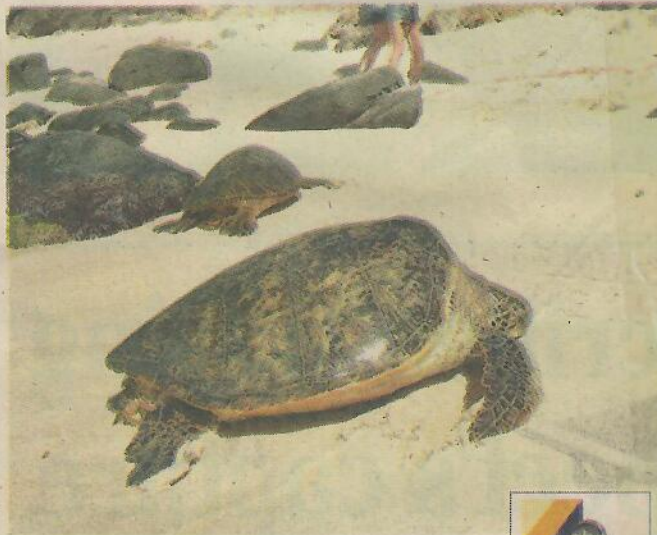
State and federal authorities are investigating the death of a green sea turtle that was found mutilated yesterday on the North Shore.

The female turtle was found covered by sand and on her back at Laniakea Beach shortly before 9:30 a.m., said Joanne Pettigrew, the educational outreach coordinator of Malama na Honu, which protects the turtles that gather at Laniakea Beach.

A Malama na Honu volunteer noticed ants in the sand before finding the turtle carcass, she said.

The turtle had been beheaded with its organs cut out and missing flippers, said Deborah Ward, a spokeswoman for the state Department of Land and Natural Resources.

"She was slaughtered," Pettigrew said, calling the attack "a very violent act, not done by someone looking for a food source."



COURTESY MALAMA NA HONU

Honey Girl, a green sea turtle seen in the foreground, was found dead and mutilated at Laniakea Beach on the North Shore yesterday.

Volunteers knew the turtle as Honey Girl for her honey-colored shell, Pettigrew said. Honey Girl was the largest female out of about 24 sea turtles that regularly frequent the beach, she added.

Honey Girl was about 200 pounds, between 30 to 40 years old, and in her prime, said Deborah Ward, Department of Land and Natural Resources spokeswoman.

She said the volunteer identified the turtle by an identification tag on its flipper, and a snorkeler found the underside of the turtle in the ocean nearby.

"On behalf of over 50 volunteers, we're very upset, disappointed and angry," Pettigrew said.

The state enforcement officers responded to the scene and notified the city's Department of



SECTION

A

CITY EDITOR
Ed Lynch
elynych@starbulletin.com
529-4758

htered

TURTLE CARCASS FOUND



STAR-BULLETIN

Ocean Safety and the National Oceanic and Atmospheric Administration, Ward said.

Federal officials took the turtle carcass to the Pacific Islands Fisheries Science Center for a necropsy.

NOAA spokeswoman Wende Goo said the death appeared unnatural, but too many organs were missing to determine the cause of death.

Green sea turtles are a threatened species and protected by the federal and state laws. Anyone caught harassing or harming a turtle can face up to a year in prison and \$20,000 in fines.

Anyone with information is asked to call the state's Division of Conservation and Resources Enforcement at 643-DLNR.



OCEAN WATCH

Susan Scott

6/20/08 HSB Injured turtle lays eggs, heads home

PUKALANI laid her eggs. Pukalani is the satellite-tagged turtle who lost a front flipper to a shark recently. I wrote about her last week, and countless people have been wishing the best for this turtle.

And the best happened. As turtle biologist George Balazs predicted, Pukalani fulfilled her duty to her species.

Now she has to get back to Oahu.

Given her disability, it seems life would be easier for this turtle if she just stayed at French Frigate Shoals. But the turtle's drive to get home will likely prevail for one good reason: This is where the food grows.

Food, in the case of green turtles, is seaweed, common in the main islands and sparse in the Northwest Chain. Surprisingly though, the seaweed our turtles eat the most is an alien species.

In a study published in the April issue of *Pacific Science*, turtle researchers Karen Arthur and Balazs reported that green turtles' dominant diet in the main islands is the introduced red seaweed, *Acanthophora spicifera*.

I couldn't find a common name for this alga, but we swimmers and beach walkers know it well: It's the brownish-reddish prickly stuff that sometimes swishes back and forth in small shoreline waves. I sometimes see it at Kailua Beach swirling around in the water. Eventually it washes in and piles up on the sand in scratchy clumps.

The round stems of this seaweed are about one-tenth of an inch wide, and they grow about 10 inches long. Spinelike growths cover the branches that sprout from the stems. These spikes aren't stiff enough to puncture skin, but they feel itchy and are unpleasant to swim through.

Acanthophora spicifera came first to Oahu in the 1950s, probably by accident, and since then has spread to all the main islands. This alien alga takes up space on rocky bottoms, shallow reef flats and tide pools where native species would otherwise grow. The brittle branches of this seaweed break off easily, and each piece gives rise to a new plant.

The abundance of this seaweed makes it an easy meal for our turtles, providing a good source of energy. Our greens eat other seaweeds, too, but not many. Of the 400 species present in Hawaii, turtles here eat only nine, mostly red.

In the study, the researchers also found some animal material, such as sponges, in some turtles, and in a Kailua turtle, a piece of green plastic. Mostly, though, the turtles eat plants.

To get this information, biologists caught 181 turtles and tagged, weighed and measured them. Then the researchers used established veterinary methods to rinse the turtles' crops, the food-storage pouch below a turtle's throat.

The turtles were not harmed by this flushing, and the knowledge it imparted is crucial to turtle conservation. What these animals eat, and where, determines their growth rate and their reproductive success.

The good news is that, diet-wise, green turtles are adaptable. They eat what's there.

Or here. Most of the turtles nesting at French Frigate Shoals will return to the main islands to graze.

We're all still rooting for Pukalani, but whether she makes it back to Oahu or not, she's still a turtle superstar. In spite of a debilitating injury, this animal managed to leave the world her most precious gift: nests of fertile eggs.

Susan Scott can be reached at www.susanscott.net.



OCEAN WATCH

Susan Scott

Tracked turtle loses a flipper in shark attack

LIFE CAN BE HARD for turtles, even the ones Hawaii honu lovers watch over, tend to and track.

The green turtle Pukalani, otherwise known as L-18, had a particularly hard day May 30 when she lost her left front flipper, likely to a shark. I say likely because turtles sometimes lose flippers to derelict fishing lines and nets when these tough materials wrap around a flipper and strangle it.

This, however, was a sudden, clear-cut injury, the trademark of a tiger.

These sharks are especially active this time of year in Pukalani's current neighborhood, French Frigate Shoals in Hawaii's northwestern chain. Large tiger sharks cruise the lagoon looking for fledging albatross chicks. When a chick flounders and rests on the water, the shark swallows it.

In this sharky process of natural selection, turtles are also targets.

129

PUKALANI IS in the spotlight right now because she's one of the regulars at the North Shore's Laniakea. In the late 1990s a group of turtles began sleeping on the beach there, and they have since become stars. These baskers provide a rare opportunity for residents and visitors to see wild turtles out of the water.

A team of dedicated volunteers take turns looking after the napping turtles and answering questions. This goes on seven days a week, year round.

I've done some turtle-sitting at Laniakea, and it's easy to view these docile creatures as pets. These are wild animals, though, with a crucial and dangerous mission: perpetuate their species.

In spring, some of these turtles head to the open ocean to swim to their French Frigate Shoals nesting grounds, about 500 miles northwest of Oahu. Both male and female green turtles migrate there to mate and nest, but they don't do it every year.

No one can tell which turtles are taking a year or two off, but in February, turtle biologist George Balazs and his assistants made their best guess and fitted satellite tracking tags on three Laniakea females. The researchers hoped to follow the turtles' journeys.

Of the three, only Pukalani felt the urge. She left in April and the biologists mapped her progress.

THE TURTLE overshot her goal but then corrected her error and arrived in the atoll 29 days after leaving. Then she had her run-in with the shark.

Flipper amputations are common among sea turtles. Usually these injuries aren't fatal, and they do not stop the turtle from laying eggs. Turtles missing front flippers have nested successfully year after year.

I knew Pukalani's story when I went snorkeling at Shark's Cove last weekend. As I floated over a turtle, I paid attention to the powerful strokes of its front flippers. How one-flipped turtles swim 500 miles, haul themselves high on the beach and then return 500 miles to Oahu is a miracle of nature. The turtles' navigational abilities are equally amazing.

Everyone is rooting for Pukalani to lay her eggs and return to Laniakea. Balazs is optimistic. "I have every reason to believe that L-18 will fulfill her species and ecological role by completing her egg laying to perpetuate Hawaii's green turtles," he e-mailed us honu fans. "And that's what wildlife populations are all about."

Susan Scott can be reached at www.susanscott.net.

P.37

OCEAN WATCH

H5B Susan Scott
3/14/08

No one knows why turtles dive all night

HAWAII'S honu are full of surprises. Biologists recently discovered that during migrations from Oahu to their French Frigate Shoals breeding grounds, our green turtles go deep-sea diving.

I call it that because the turtles' dives aren't just casual drops below the surface for a few minutes. In this study, three adult turtles swam down an average 115 to 180 feet and stayed deep for 35 to 44 minutes before they came up to breathe. This diving went on all night, every night during their 30-some day migrations there and back.

These dives set some records. The female once dived to 453 feet, and one male made several dives of 338 feet. Six of the turtles' shallower dives lasted more than three hours, one for 3.6 hours.

These are the deepest and longest dives ever recorded for green turtles in the wild. Why they do it is unknown.

It certainly doesn't seem efficient. Diving deep and long takes energy. The turtle has to work to swim down that far, and work some more to stay there. Neutral buoyancy in an adult turtle with its lungs full of air is about 65 feet. Deeper than that and the turtle must sink or swim.

Biologists previously assumed that during their 500-mile trip through rough, open ocean, migrating turtles swim just below the turbulent water, say three to 12 feet down. And they do. But only during the day.

Each evening around 7 p.m., down they go 100-some feet, swimming up and down all night long. At 6 to 7 the next morning, the turtles resume their near-surface positions, swimming fast toward their goal.

Researchers have some theories about the turtles' dives. One hypothesis is that the turtles are down there riding favorable currents. A rub to this theory is that the turtles' depths were similar in both directions.

Another possibility is that when the turtles go deep, they're exploring. Maybe the turtles are looking for the bottom, which would let them know they were reaching shallow water.

It's also possible that the turtles are trying to avoid sharks in those black, nighttime depths. One of the males in this study returned from French Frigate Shoals to Laniakea missing part of its left rear flipper.

Turtle researchers thought that greens didn't eat during their migrations, but this could be wrong. The diving turtles might be searching for food at those depths, replenishing their energy.

The diving information in this study came from small devices called time depth recorders, or TDRs. Researchers insert these little recording machines into boxes glued to the turtles' backs. The turtles cooperate nicely with this procedure by frequently sleeping on the beach at Laniakea on Oahu's North Shore. Biologists working quickly and quietly can attach a TDR box, or change the TDR within, without restraining or even disturbing the sleeper.

Local turtle biologists Marc Rice and George Balazs conducted this study, published this month in the *Journal of Experimental Marine Biology and Ecology*.

To further study this diving behavior, the researchers might attach tiny cameras to migrating turtles, insert jaw sensors to measure eating patterns or use GPS to calculate dives with speed of travel.

Until then only the honu know why they dive. Their mystery is one of the reasons we love them.

Susan Scott can be reached
at www.susanscott.net.

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L18 TRIG 2008

FEATURES EDITOR

Betty Shimabukuro
betty@starbulletin.com
529-4777



HONOLULU LITE

Charles Memminger

Lite notebook: Turtles, dogs, blind seers

WELCOME to the Tuesday Lite Notebook, (Dept. of Corrections, Updates, Further Convolutions and New Business.)

Update: In January I mentioned the relatively sudden adoption by Green Sea Turtles of busy Laniakea beach on the North Shore as a place to sun and frolic (if blinking an occasional eye is considered frolicking) and that the first turtle to haul out there is named Brutus. He appeared in 1999, according to turtle biologist George Balazs, and is officially known as L-1 (Laniakea 1). I said the turtle was named Brutus by "a lady who has lived at that beach for 30 years." Some readers wanted to know who she is. She is Joanne Pettigrew, who isn't just some lady but has the Malama na Honu Foundation,

dedicated to protecting and appreciating "honu," or turtles. She named L-1 Brutus because a shark bit off a chunk of his back flipper on "a blustery March 15." She probably should have named the turtle "Caesar" since HE was the one who suffered on the Ides of March at the hands of Brutus and other Roman sharks. You can see photos of Brutus (the turtle) at Pettigrew's Web site malamanahonu.org.)

Correction: Big Islander Mike Last wants people to know 1) he's from Ka'u, not Puna, as I said in a recent column and 2) He got 12 votes when he last ran for the state Legislature. I concede he's from Ka'u, but I was referring to the 1998 election in which he only got three votes. The large "up-county vote" apparently never materialized in either case.

Update: Tammy Kubo, owner of Hawaii Pet Nanny, a popular pet-sitting biz, has been letting dogs and cats "vote" in a "first ever presidential pet caucus" on her Web site, visitmypet.com. She reports that that Hillary Clinton and Barack Obama are in heat, wait, I mean are in a DEAD HEAT, according to the poll. A few weeks ago the pet poll had Rudy Giuliani ahead on the Republican side and didn't even offer John McCain as a choice. (Shows how smart four-legged furry creatures are about presidential politics.) I noticed Tammy snuck in and put McCain in the poll and dropped Giuliani. She readily confesses that when she first posted the candidates on the site "I didn't think McCain had a chance." She thinks the islands' poi dogs will come through and give Hawaii's favorite son and (recent) pet lover Obama the win. (He didn't even own a pet at the beginning of the campaign.)

New Business: A reader alerted me to a curious obituary that appeared in "The Astrological Magazine." "We regret to announce that due to unforeseen circumstances beyond our control, the publication of The Astrological Magazine will cease." Unforeseen circumstances? You mean the publishers of a magazine devoted to seeing into the future didn't even see the coming demise of their own publication? That's almost as disturbing as Dionne Warwick, huckster for the "Psychic Friends Network," not "seeing" her singing career crashing and her becoming a shill for her not-so-psychic friends.

Charles Memminger's book, "Hey Waiter! There's an Umbrella in My Drink!" is sold in bookstores and online. E-mail him at cmemminger@starbulletin.com

FRONT PLASTIC NORMAL

TURTLE

Shell - a body to be seen
 that



Shell: sand

Plastron: ventral area of underbelly
 and may be sand

Flippers: skin

Tail: small - side

BODY CONDITION: good

MAY 24
2006

~~NORMAL BLEED - NORMAL~~
LIVE TURTLE EXAMINATION RECORD

TURTLE

Date: 5/24/06 11

Turtle ID: BKWTIS

Comments: Swung in from N. Shore - a water
WT 175# thought to be looking
thin

PHYSICAL EXAM

Head and neck: round

Mouth: round

Eyes: appear slightly sunken

Front flippers: round

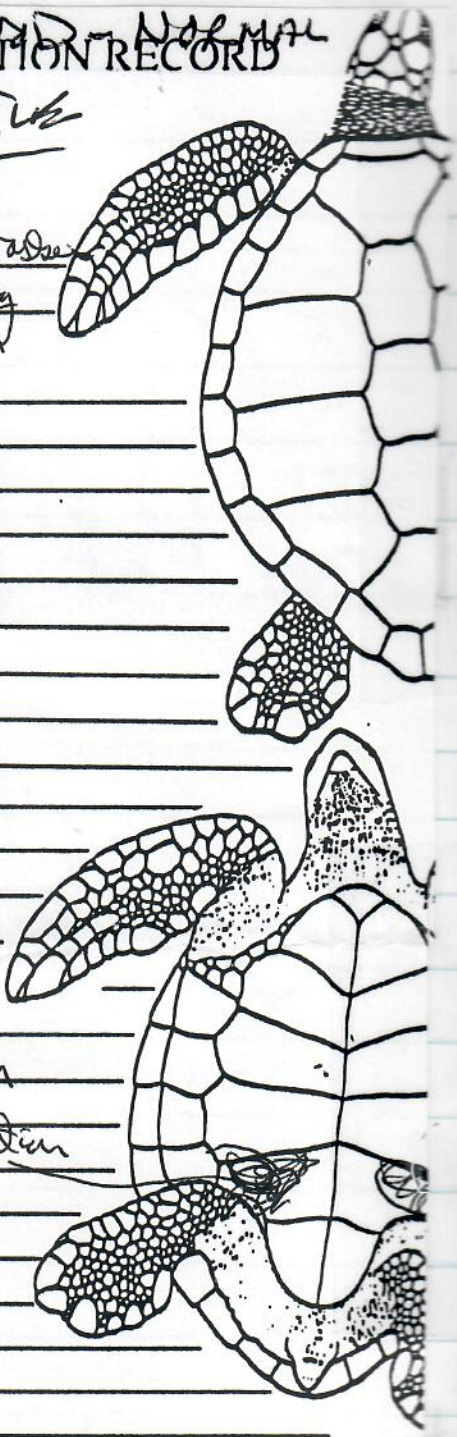
Shell: round

Plastron: distal area of indentation
and may be round
indentation

Rear flippers: non

Tail: round - male

BODY CONDITION: good



2006/5/24

SAMPLES TAKEN

PCV 30 T.P. 5.6

CBC Chemistries

Others _____

APPROXIMATE TUMOR SIZE CATEGORIES

- #1 = DETECTABLE PATCH TO 1CM
- #2 = >1CM TO 4CM
- #3 = >4CM TO 10CM
- #4 = >10CM

RECOMMENDATIONS: Turtle appears normal -

WT gain from 1 to 175 - 2004-2006 - blood

for CBC & chem taken for baseline - PCV normal T.P.T

Signed: Robert A. Morris DVM P) release 5/25/06

ROBERT A. MORRIS MS, DVM, 348 ILIAINA ST., KAILUA, HI. 96734



L18
TRIG
2008

MEDICAL HISTORY - CLINICAL RECORD

| | | | | | |
|-------------------|---------------------|---|-----|--------------------|--|
| NAME N MKS | | ADDRESS | | TELEPHONE 24706 | |
| IT NAME BROTIE | SPECIES N. SQUIR | BREED | SEX | COLOR AND MARKINGS | |
| DATE 3/24/06 | BIRTHDATE | SPECIAL INFORMATION VEXAM - BRACKER | LAB | X-RAY | |
| RED NO | | | | | |
| DATE | TEMP | DESCRIPTION | | | |
| | | <p>S) BROTIE' orange in fur, Mother share - C - "request of Wash" - brought to me from & lived w/ me - D) Brother w/ 175 lbs (gain from before) No tumors seen - eye - all clear Pleural condition appears normal - Altered side of rib of brother seen forward / Pleural condition - bilateral - good H) normal physical condition Acute inflammation in pleura bilateral + thought to be normal P. PCV H.T.P CBC & chem Release tests to wild - ABC & Chem normal</p> | | | |



| DATE | MEAN | SD | RANGE | |
|---------------|-------|-------|------------|---------|
| 5/24/06 | | | | 5/27/06 |
| ALK. PHOS. | 33.5 | 12.2 | 12-62 | 89 |
| ALT (SGPT) | 3.9 | 7.0 | 0-50 | 4 |
| AST (SGOT) | 158.4 | 41.5 | 1-270 | 49 |
| CK | | | | 2567 |
| LDH | 203.8 | 180.4 | 55-1286 | 175 |
| ALBUMIN | 1.7 | .4 | .6-2.2 | 2.0 |
| TOTAL PROTEIN | 4.2 | .6 | 2.9-5.6 | 5.9 |
| GLOBULIN | 2.7 | .5 | 1.8-4.0 | 3.9 |
| BUN | 25.8 | 70.7 | 0-320 | - |
| CREATININE | .2 | .1 | .1-.5 | . |
| CHOLESTEROL | 140 | 43 | 32-280 | 139 |
| GLUCOSE | 114.7 | 35 | 64-234 | 65 |
| CALCIUM | 9.1 | 1.7 | 1.1-12.1 | 8.6 |
| PHOSPHORUS | 8.2 | 1.3 | 5.9-11.8 | 4.9 ✓ |
| POTASSIUM | 5.2 | .9 | 3.9-8.6 | 4.2 |
| SODIUM | 158 | 4.0 | 146-170 | 149 |
| A/G RATIO | .6 | .2 | .2-1.2 | 0.5 |
| URIC ACID | 1.3 | .8 | 0-4.5 | 0.5 |
| CA/P RATIO | 1.1 | .13 | .18-1.0 | |
| WBC ESTIMATE | | | | |
| WBC COUNT | 13.8 | 5.3 | 5.9-23.6 | 15.6 |
| HEMATOCRIT | 29 | 4 | 17-35 | 33 |
| HETEROPHILS | 10 | 3 | 4-17 | 25 |
| NEUTROPHILS | | | | 19 |
| LYMPHOCYTES | 71 | 8 | 53-83 | 46 |
| MONOCYTES | 6 | 3 | 4-17 | |
| EOSINOPHILS | 13 | 6 | 4-29 | 10 |
| BASOPHILS | 0 | 0 | 0-1 | |
| ABSOL HETS | 1380 | | 236-4012 | 3900 |
| ABSOL NEUT | | | | 2964 |
| ABSOL LYMPH | 9798 | | 3127-19588 | 7126 |
| ABSOL EOSINO | 1794 | | 236-6844 | 1560 |
| ABSOL MONO | 828 | | 236-4012 | |
| THROMBOCYTES | | | | |
| LYM/HET RATIO | 7.0 | | 4-13 | |

Anonymous

6/09

I had been enjoying the quiet morning with my dog at Laniakea Beach while me husband went surfing several Sundays ago. A volunteer from Malama Na Honu walked by stating, "Stay on the blanket, keep the beach clean." My dog was leashed, on my towel next to me, not roaming the beach urinating or defecating all around. I enjoy a clean beach like most people; if my dog was not under control, I can understand a remark such as that.

While I am all for the protection of the Hawaiian Green Sea Turtle and education of the public, this volunteer seemed to have taken on other responsibilities to include policing the beach. I have heard other beachgoers and surfers comment that the volunteers have "gone too far".

There were no turtles visible at the time mentioned above. Tourist vans have been seen two abreast dropping off people at the beach, where there is a No Parking sign clearly visible. Perhaps Malama Na Honu should address the tourist vans if not already. This is just one incident; are there others that have not been reported?

Revised 01/22/08

NOAA Fisheries
Pacific Islands Fisheries Science Center
Marine Turtle Research Program
2570 Dole Street
Honolulu, HI 96822-2396

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

| | | |
|-----------------------------|--------------------------|--------------------------|
| TUMOR SCORE | OLD TAGS: | NEW TAGS: |
| <input type="text"/> | <input type="text"/> | RHF <input type="text"/> |
| ORAL TMRS EXT: YES OR NO | <input type="text"/> | LHF <input type="text"/> |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| EMACIATION CODE | <input type="text"/> | <input type="text"/> |
| <input type="text"/> | MT# <input type="text"/> | |

STRAIGHT CARAPACE - LENGTH: cm

WIDTH: cm

NOTCH LENGTH: cm

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH: cm

WIDTH: cm

HEAD WIDTH: cm

LATERAL1: cm

LATERAL2: cm

PPS: YES OR NO OR NE

LATERAL3: cm

SEX: Male, Female or Undetermined

TAIL LENGTH: T cm

C cm

SPECIES:

RIGHT FRONT FLIPPER WIDTH: cm

SAMPLES COLLECTED:

PLASTRON LENGTH: cm

WEIGHT: #

DESCRIPTIVE REMARKS:

file of Peleloa Rice

SEP-21-2005 09:51 From:DLNR AQUATICS

8885870115

To:99732941

P-2300

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRMAN
HAWAIIAN LAND AND NATURAL RESOURCES
COMMISSION
ROBERT S. MASUDA
DEPUTY DIRECTOR - LAND
DEAN MASCANO
ATTORNEY GENERAL - WATER
AQUATIC RESOURCES
HAWAIIAN AND OCEAN RESEARCH
INSTITUTE
COMMUNITY WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
DIVISION
HAWAII AND WALKAWALK
SOUTHERN HAWAIIAN ISLANDS
KAOHOLAWE ISLAND RESERVE COMMISSION
LAND
STATE 1999

September 19, 2005

William Robinson
Administrator
Pacific Islands Regional Office
National Marine Fisheries Service
1601 Kapiolani Blvd., Rm 1110
Honolulu, HI 96814

Dear Mr. Robinson:

After careful consideration, I am writing to inform you that we wish to withdraw and revise our application for an ESA incidental take permit (ITP) for take of sea turtles and Hawaiian monk seals by our state managed fisheries. The withdrawal and revision of the permit application will be coupled with the continuance and initiation of several important activities intended to minimize adverse fishery-related impacts on seals and turtles. This has been a difficult decision, but we believe this is the best course of action for all concerned, including Hawaii's seals and turtles, as well as our fishing community.

We are withdrawing our application because we believe that the conservation plan included in the application regarding monk seals should be enhanced and further developed with additional community input and agency consultation prior to its resubmission. As you know, our permit application originally focused only on the take of turtles. The take of seals was added to the application long after the original application was developed. In retrospect, we now realize that more work needs to be done on portions of the application related to seals.

We have also been informed recently by your agency that a separate MMPA permit may also be required. This development has also influenced our decision to withdraw and further refine our permit application.

In addition, since we originally started working on this permit application, your regional office has established a new Marine Mammal Branch. We have recently begun collaborating on a number of promising initiatives with this new branch and we would like an opportunity to further develop this collaborative approach and to then reflect this new approach in our revised conservation plan prior to resubmitting our application.

While we are revising our permit application, we intend to take the following steps to assist in our revision efforts and mitigate possible fishery-related adverse seal and turtle impacts:

- Continue leading and/or assisting field responses to hooking incidents, such as those recently accomplished on Kauai, to ensure seals are quickly and safely unhooked when reported;
- Continue seal pup protection and turtle nest management efforts, especially those on Kauai and Maui;
- Work with DLNR and NOAA Fisheries Service staff and stakeholder representatives to develop and implement mitigation measures to minimize seal and turtle take from fishing activities and to guide DLNR in the development of a revised conservation plan for our revised permit application. The mitigation measures and plan elements may include:
 - enhancing reporting of seal and turtle interactions by state and county staff,
 - enhancing rescue capabilities to respond to and treat hooked seals and turtles.
 - enhancing seal pup protection and turtle nest protection efforts.
 - using public service announcements and other outreach techniques to educate fishers in proper ways to react when seals and turtles are hooked or entangled.
 - creating a limited number of regulated fishing zones in areas where seal interactions are frequent,
 - facilitate community efforts to reduce adverse seal and/or turtle interactions at know haul-out areas,
 - removing fishing gear when seals are present,
 - using barbless hooks;
- Further enhance collaboration with the new Marine Mammal Branch in the NOAA Fisheries Service, Pacific Islands Regional Office in all of its seal conservation efforts throughout Hawaii;
- Continue to work with NOAA and local stakeholders in implementing a process to add monk seals and sea turtles to the marine resources protected by the Hawaiian Islands Humphack Whale National Marine Sanctuary; and,
- Move forward quickly with new lay net restrictions.

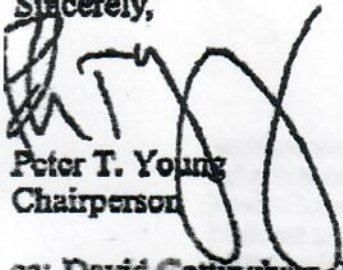
We know that several National Marine Fisheries Service staff and contractors have spent significant amounts of time and effort reviewing our application and developing an associated draft environmental impact assessment. And we have certainly found your staff and contractors to be extremely helpful and dedicated professionals throughout this effort. We regret any inconvenience or additional cost that may be caused by our now withdrawing our application, but we also hope that much of the work that has been done will still be useful when the time comes to review our revised application.

Thank you for the assistance you and your staff have provided on this matter. We would very much appreciate your patience and understanding regarding our difficult decision to withdraw and revise our ITP application. We would welcome comments or suggestions you might offer at this point regarding our plans discussed above or any other information or guidance you might wish to provide.

Letter to William Robinson NOAA-NMFS
September 19, 2005
Page 3 of 3

My point of contact on this matter will continue to be Jeff Walters (Tel: 587-0106). Please feel free to contact him or myself at anytime. We will certainly notify you frequently regarding the progress of our application revision and look forward to continuing our productive partnership in conserving Hawaii's precious marine wildlife.

Sincerely,



Peter T. Young
Chairperson

- cc: David Cottingham, U.S. Marine Mammal Commission
- Naomi McIntosh, Hawaiian Islands Humpback Whale National Marine Sanctuary
- Kitty Simonds, Western Pacific Regional Fisheries Management Council



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Humans Help Way Of Life F

By KERRY MILLER

For 10 years Malama Na Honu has protected Hawaiian green sea turtles and educated locals and tourists about them from its North Shore beachhead.

Malama Na Honu means "care for the turtles," and that's just what the nonprofit has done with 60-plus volunteers. Outreach coordinator Joanne Pettigrew said volunteers are on the beach daily in three or four shifts lasting three to four hours apiece.

"We try to keep it enjoyable because they are volunteers," explained the Haleiwa resident. "We also do fundraisers and give incentive pins for every 100 hours on the beach. We have a wonderful, wonderful group of volunteers. We're so happy to have them here."

They report at 9:30 a.m. to the Laniakea site, and the last ones don't leave until sunset. When a turtle comes to bask on the beach, they rope off the area and put up signs alerting visitors not to invade that space. People can take photos and watch them, but they must stay outside the rope. In addition to answering questions and enforcing rules, volunteers also gather details for the federal government called "basking data."

"We have 25 turtles that have been identified over the last 10 years, and we have names for all of them. We send this in to the Marine Turtle Research Program," said Pettigrew. Turtles that bask at Laniakea are identified through a Passive Integrated Transponder (PIT) tag, or microchip. Volunteers wave a special hand-held scanner over the turtle to see which one it is. Using their records, they can then search the turtle's history to see the last time it paid a visit. From February until May 1, Hawaiian green sea turtles migrate to the French Frigate Shoals in the Northwestern Hawaiian Islands to mate and rest. That's 1,000 miles round trip. When it's time, they'll be epoxied with a satellite tag so their travels can be tracked.

"This time of year, for them to be here for such a long time is a clue to me that they may be storing up their energy to migrate. At the end of the month, George Balazs, the leader of the MTRP, will come out to affix satellite tags to three of our turtles. We can get the satellite readings every 48 hours, and we're actually able to track them on the computer. Two of ours migrated last season," she recalled. "It was very neat to see."

CENTRAL O

ing Turtles: A or Honu Group

A renowned honu expert and researcher, Balazs noticed 10 years ago that the turtles were basking at Laniakea. Along with Pettigrew, who used to live next to the beach, he began outreach work and eventually founded Show Turtles Aloha, now Malama Na Honu.

"George and I, we started very slowly doing outreach because people were feeding them, riding them, picking them up, trying to put cigarettes in their beaks," she recalled.

The state DLNR, NOAA, local law enforcement, North Shore Chamber of Commerce, the Hawaii Tourism Authority and others support it. The group also works with schools and organizations. Go to www.malamanahonu.org.