

MAUI BOOK III

MAUI BOOK III

GEORGE BALAZS 2 JULY 2000

MAUI Mead 2000-2001
COMPOSITION

~~13 AUG 00 - HONOLULU~~
~~27 AUG 00 - HONOLULU~~
~~25 SEPT 00 - MCC MOP / MOC~~
~~17-19 JAN 01 - HONOLULU~~

G. BALAZS

100 sheets • 200 pages • 100 hojas
9 3/4 x 7 1/2 in / 24.7 x 19.0 cm

wide ruled / réglage large / rayado ancho

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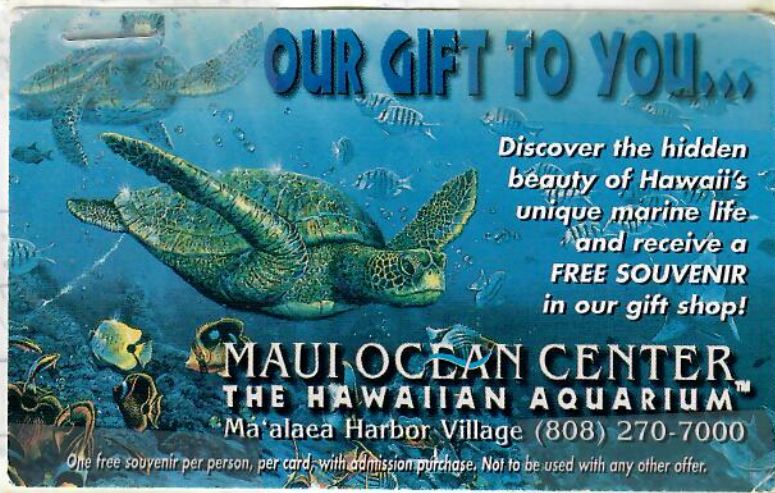
turtles!



Pikake -
AI 669-6384



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



Date: Tue, 18 Aug 1998 17:48:26 GMT
 From: useroffice@argosinc.com
 To: GBALAZS@honlab.nmfs.hawaii.edu, useroffice@postoffice.argosinc.com
 Subject: Re: Program Profiles - 1092 & 9092

Hi George,

Enclosed is a list of the IDs assigned to Programs 1092 and 9092. I've also enclosed a legend which explains each item. In Pgm 1092 the IDs which have 2 sensors are set up as follows: ALP, 2 sensors, 16 bit each, A1 processing. The IDs which have 32 sensors are set up as follows: ALP, 32 sensors, 8 bits each, A1 processing.

ST14

The IDs assigned to Pgm 9092 are set up as follows: ALP, 6 sensors, 8, 16, 16, 16, 02, 06 bits each, A1 processing.

Hope this helps you out.

Will

Pacific Dive = 667-5331

Page 95 Honokowai GB & Marc Rice
 17-19 JANUARY 200 / No HONAN /

Wed. Friday

- Recovered on Self Logger at Polz Barney Ledge. Replaced with Tidbit
- " " " at Mala wharf Parasail " " "
- ONE JACTATOR on Resting turtle 35' Honokowai frozen
- 10 " Airport beach 20' no turtles seen
- 5 " MALA PARASAIL (includes one w/tumor)

①

DONNA BROWN - Map office: 984-3203
home - 669-7583; page 984-4555

Glynnis - Refuge office = 875-1582

Skippy
243-5834

Home = 878-3269
Cell = 280-0264

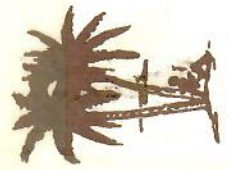
MAUI

Beach Patrol Phone and Mailing List 2000

Gloria Adlawan 879-8266
 Bill Adams 875-7524
 Susan Bradford 874-5351
 Claire Cappella 879-2818
 Janet Cowan 879-0338
 Pete Dale 875-4384
 Fergie Ferguson 875-1569
 Jackie Frost 572-4413
 Wayne & Jean Johnson 875-7324
 Dick Kiligan 874-3422
 Brenda Killian 879-1880
 Jeff & Jody King 879-2798
 Alan Ligon 874-3911
 Mary Jane Medairy 879-5781
 Diane Nelson 879-5670
 Barbara Noel 875-7754
 Katu Nicholas 874-3911
 Bill Pray 879-7160
 Claudine Pauly 874-9150
 Angela Plummer 280-3755
 Pat & Cathi Ryan 879-7926
 Diana Schulte 874-3679
 Victoria Smith 879-7160
 Gene Thompson no phone
 Suzanne Thurston 874-8054
 Lynda Williams 875-8344
 Steve & Esten Williams 874-6194

365 S. Kihei Rd., Kihei, 96753
 no address on record
 3145 Mhamae Pl. Kihei 96753
 726 South Kihei Rd. Kihei 96753
 638 Kumulani Dr. Kihei 96753
 986 Kupulau Kihei 96753
 123 Miha Pl., Kihei, 96753
 P.O. Box 183, Paia 96779
 181 Kamakoi Loop, Kihei 96753
 560 Kaiola St., Kihei 96753
 711 B Mililani Pl. Kihei Hi.
 688 Kumulani Dr. Kihei 96753
 P.O. Box 5026 Kahului 96732
 1283 Ulunui Rd. #5, Kihei, 96753
 P.O. Box 959 #340 Kihei 96753
 1283 Ulunui #1, Kihei, 96753
 P.O. Box 5026 Kahului 96732
 50 J Waiohuli St. Kihei
 1032 S. Kihei Rd. B-101, Kihei 96753
 46 Munoz St., Makawao 96768
 552 Kaiola St., Kihei
 50 Laumaewa Loop, 96753
 3300 Wailea Alanui Dr. Kihei 96753
 or address on record
 760 South Kihei Rd. Kihei 96753
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 537 Kumulani Dr. Kihei, 96753

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MOC 270-7000 EXT 155

Greg Levine pager 858-0054

- Bask-yes
- size 1
- seawater

----- Forwarded message -----
Date: Fri, 21 Jul 2000 08:14:08 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: Shawn Murakawa <smurakaw@hnlab.nmfs.hawaii.edu>
Subject: Re: FedEx box

LOGGERS 7-21-20

Aloha Shawn,

Just letting you know both loggers you sent were deployed yesterday. Here are the specifics.

- Logger 295518 set at Mt. Balazs (NorthHouse) 000720am
- Logger 295519 set at Zeus' Lair (Reef2) 000720pm

Both Silenced by Sean Lockman

We have three loggers that need returning but we'll likely send them out today. Alohas.

Taken to Honokowai 8-13-00
 #12232 6 logger in Small PCV -
 (I silenced it @ HB) Tied by me
 Started up at HL = 7-14-00 8/13/00 to The Rock
 8/27/00 Peter reported it was untied and they retrieved it.

261363 TO Honokowai 8-27-00
 Place by me in Polz ledge - tied w/ nylon twine - 13 feet deep.
 Retrieved above 261363 onset-stoway.
 BINKING → started 1/9/01 # 381363 Tid Bit
 - Replaced 1/18/01 with Tid bit (2 hours sampling) in PCV - Polz Ledge, Honokowai
 - 1/18/01 Retrieved onset Logger Parasail and put out (found in sand!) started 1/9/01 Tid bit # 381372 in rectangle resting site.

4

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Rental

Units #102 & 205
Tip and Angela Tyler

861 Ocean View Blvd. Pacific Grove, Ca. 93950
3723 L. Honoapiilani Rd. Lahaina, Maui, HI. 96761
(831) 373-7342 voice (808) 665-0046 v & fax
(831) 373-6604 fax
e-mail: PGTIP@aol.com or AATYLER4@aol.com

over
sent

MS.

Poerava Emig
1449 Front St
Lahaina, HI
96761

French speaking

has two young boys - has lived at this location for a long time. Shoreside of Sunken Parasail Artificial turtle habitat. I promised video.

sent

19 JUNE 2000

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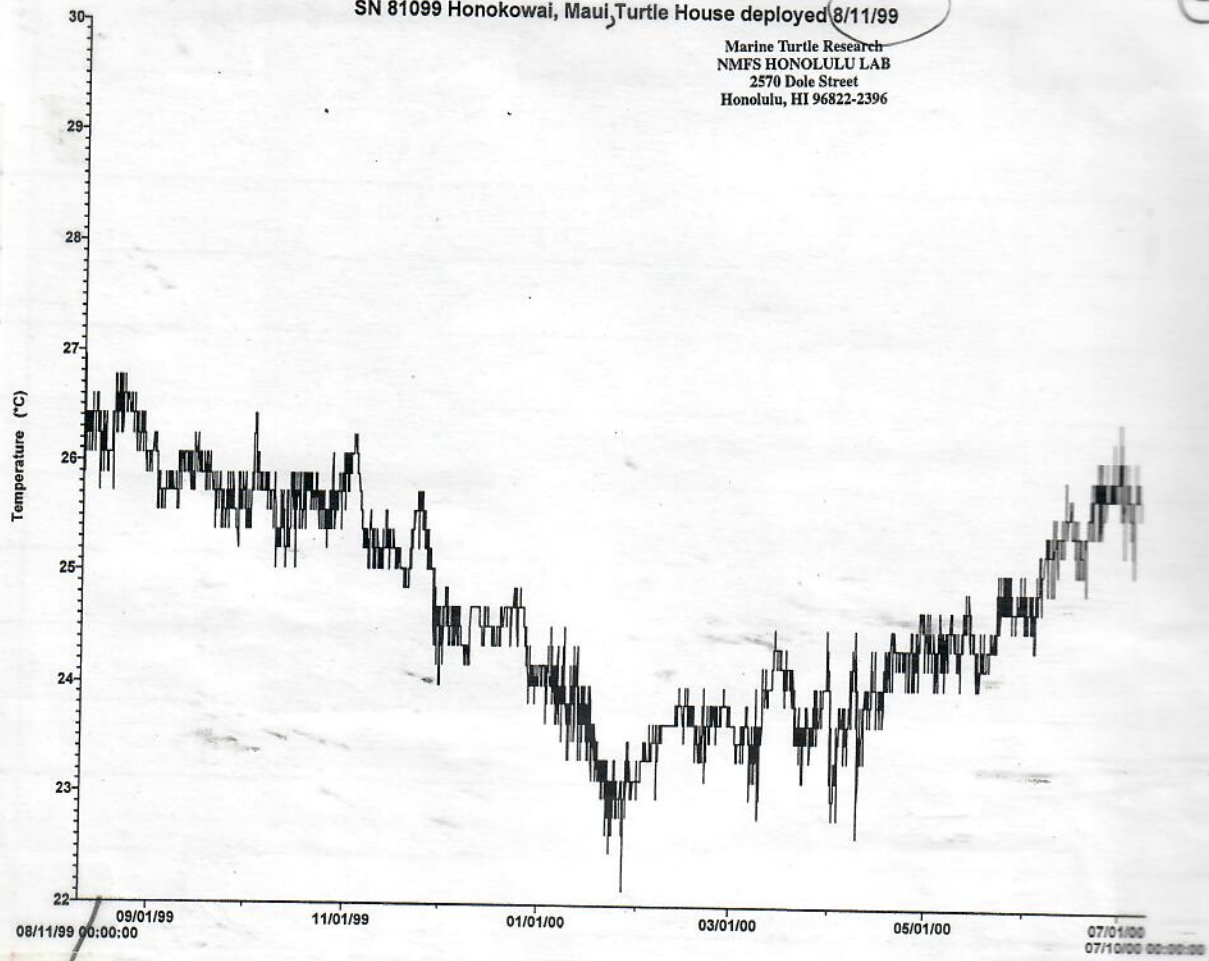
NOAA Sanctuary Training + Lecture

3/19 Maui JACINTOR frozen hand delivered Monday to Ron LU (1) 1/8/01 (Hono - (live Hono house)) (2) MALA-HA (from Mala wharf) (3) AIE-10 (Airport Beach) (2) I MK - 2
One JACINTOR w/ Tumors Malawharf for Photo, Histology, and Sectioning (Give to Ron LU)

SN 81099 Honokowai, Maui, Turtle House deployed 8/11/99

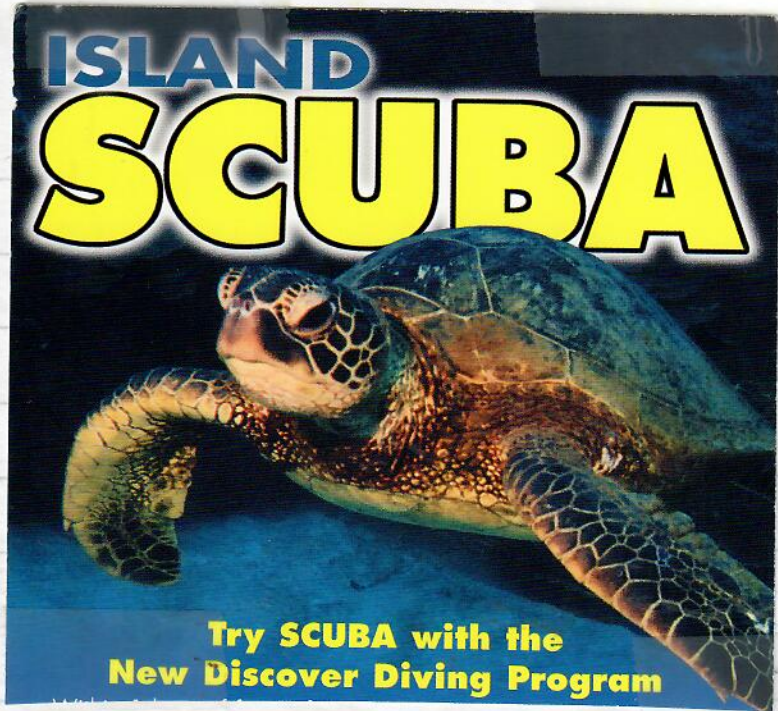
Marine Turtle Research
NMFS HONOLULU LAB
2570 Dole Street
Honolulu, HI 96822-2396

5



8/11/99

6



----- Forwarded message -----
 Date: Sun, 12 Jun 2000 15:45:43 -1000
 From: skippy hau@exec.state.hi.us
 To: william_s_devick@exec.state.hi.us
 Cc: gbalazs@honlab.nmfs.hawaii.edu, Margaret.Dupree@noaa.gov,
 Allen.Tom@noaa.gov, rodie_f_masusako@exec.state.hi.us
 Subject: 8/3/00 Turtle Tracks Observed in July

My email system has been broken for three weeks. I think I can send messages but I still have not been able to download from our ccMail post office. Please call me at (Ph.#243-5834) to let me know if you receive this message. I thought I would not need to print and mail memos. Aloha, Skippy

=====

DIVISION OF AQUATIC RESOURCES - MAUI
 DEPARTMENT OF LAND & NATURAL RESOURCES
 130 MAHALANI STREET
 Wailuku, Hawaii 96793
 Phone # (808) 243-5834
 July 18, 2000

*Reduce
Maui
Book*

To: Bill Devick, Administrator
 From: Skippy Hau, Aquatic Biologist
 Subject: Turtle Tracks Reported North of National Marine Sanctuary Office

This morning, about 07:15, Mr. Jerry Bitnias (Ph.#875-1983) found turtle tracks on the beach north of the Sanctuary Office. He informed Sanctuary personnel and Claire Capelle notified me of his findings.

Around 08:40, I inspected the tracks and found seven eggs exposed on the surface. There appears to be one nest and several other areas with digging. The larger eggs appear to indicate a green turtle may have nested. The eggs were collected by Sanctuary personnel and will be sent to George Balazs for analyses at the National Marine Fisheries Service Honolulu Laboratory.

Shawn Murakawa was informed of the tracks and possible nest in Kihei. She said the green may come up to nest a second time.

c: DOCARE - Maui

email copies:
 National Marine Sanctuary
 George Balazs, NMFS

----- Forwarded message -----
Date: Thu, 06 Jul 2000 14:48:28 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Another tagged wahine resight

MAUI

TAG
U164
U683

X25 AKA U164 and today we read tag U683 LFF. She also has what's left of white paint/engraving but simply can't make out what it says. I bet she nested last summer (1999). Last sighted 1996 with a couple tumours (small) about the eyes. She's a regression case now. Yes. Another one. Got EXCELLENT closeups of both left and right eye to show the FP signature there. Am sending her LFF tag to noaa.gov

Resighted Honokowai at the Battery, Reef2 000706 am dive

----- Forwarded message -----
Date: Thu, 06 Jul 2000 07:06:00 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Fwd: And something else

fyi

>Date: Thu, 06 Jul 2000 07:04:53 -1000
>To: Osha Gray Davidson <osha@pobox.com>
>From: Ursula Keuper-Bennett <howzit@turtles.org>
>Subject: And something else

MAUI

>We saw Makana for the first time yesterday. We thought maybe because she >wasn't under her ledge any more that she'd outgrown it and maybe left >Honokowai altogether. Yesterday there she was in her classic >"I'm-sitting-near-my-ledge-watching-the-world-go-by" posture. Peter >sighted her first. I knew something was wrong the way Peter moved. Last >summer I recorded Makana as F'P vulnerable. Just throwing white posterior >both eyes. And some white blemishes on neck and shoulders but again, no >lumps to confirm.
>
>Peter was all weepy back on the beach. I took one look at him and then >started to cry. That set him off. We're getting hardened, Osha. Used >to be we broke down then and there underwater. Must be getting used to FP!
>
>See attachments. Recall that "Makana" meant "Gift" gift from the >Shoals. Our 25th Anniversary recruit.

----- Forwarded message -----
Date: Mon, 24 Jul 2000 10:57:55 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>, Peter Bennett <honu@turtles.org>
Subject: Re: Important tag request (fwd)

Reduce
no

Mahalo for the info so quickly. The tumour info was especially what I was waiting for. She's a regression case George (confirmed this sighting)... and she's still got one remaining tumour right shoulder.

Here's our other info.

MAUI

First sighted 1993, we note a "small gray tumour on elbow" Then get this, photographed by Rob Hawes while vacationing at Honokowai March 1995 but we never saw her that year. Sighted by us 1997 Get this. Sighted by you on your January 1999 trip here but not by us the subsequent summer Sighted at Reef2 2000 07 18am dive one remaining tumour on right shoulder, browned (REGRESSION CONFIRMED)

re: when are good days we already answered that. Your messages just keep bouncing.

At 09:01 AM 7/24/00 -1000, George H. Balazs wrote:
>408C. first tagged nesting at East 6/23/96. There again in 6/99. Also had >407C applied and in 99 two pit tags inserted. SCL 93.5. No tumors noted.
>
>Question: Between now and the 4th of August, what day(s) would be not >good days for me to fly over to dive with you for the day? Aloha, George

TAG
408C

8

----- Forwarded message -----

Date: Mon, 24 Jul 2000 15:07:03 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Polz

How
Maui

Makana and Akebono are no longer in their 1999 haunts. In fact Akebono is wary of us --as if she's now afraid of divers. Odd. We've sighted Makana only three times so far this summer.

Note, we think Polzbarney may be blind in left eye. Last time he was under his ledge he swam slowly toward me and bumped into the camera --video review suggested he simply didn't see me on the left. Haven't seen for at least a week. He's now nervous of divers coming and going through the cavern (can't say I blame him)

Still. He's thrown no new tumours.

At 01:56 PM 7/24/00 -1000, you wrote:

>have to make this quick, things just got hectic here-- when I come we do
>freezing of Ake and Makana. Can't harm, could help.

>How the hell did Polz eye come back??

----- Forwarded message -----

Date: Thu, 27 Jul 2000 13:17:52 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Ho'omalua at Mt Balazs again today

Daily if you arrive at about 11:00. Today she was resting there with a tumoured honu who had its flipper on Ho'omalua. Did I get a pic? No (and don't ask).

Maui Reduce Maui

Next, algae bloom now threatens to be as bad as 1991. I want to go to the papers and media and rant but I'm afraid this would lead to getting that *BAREPTUI* West Maui Algae Task Force up and running again and worse, more federal moneys going into Wendy Wiltse and her useless-tit Hawaii-based old crony pinhead researchers who'll do more worthless studies with intent to publish in peer-reviewed journals but never did.

In short, secure funds for \$\$\$\$\$'s who's interested starts when the money does and ends at exactly the same time the money runs out.

They're building more hotels right on North Beach and I've been silent even though I know two hawkshills call the area home. And yet to be silent and just quietly document...

Let me grab some pics for you.

Date: Sun, 25 Apr 1945 14:29:53 -1000

From: skippy hau@exec.state.hi.us

To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>

Cc: Glynnis Nakai <glynnis.nakai@fws.gov>, Hannah Bernard <wild@aloha.net>,
Steve Williams <williams@maui.gateway.com>,
Bill Gilmartin <jarmar@aloha.net>

Subject: Re: Maui hawkshill nesting

Need to call
Maui Reduce she meant
Kamehameha?

George,

Have not received any reports of tracks. Last week on Tuesday, June 6, a George at the Maui Ocean Center said a lady visitor reported seeing turtle hatchlings at a place she referred to as "black sand beach." I went to inspect the shoreline at Oneuli Beach around lunch and the next morning but found no signs of hatchlings. He was a naturalist at the Aquarium and did not get her name specific location or contact number.

There have been no other reports this season.

I also disposed of a decomposing green turtle with tumors from the Kahana area (CCL=52cm CCW=49cm). Reported by Mr. Brian Granballe (Ph.#669-6502) who found the dead turtle on the shoreline around 20:00 on 11 June 2000. I got the recorded message before 21:00 and notified the MPD dispatch I would check on the dead turtle the next day. The carcass was disposed at the landfill.

I have been busy with fish survey preparations and diving throughout this week.

Skippy

Aloha, are any of you aware of any signs whatsoever of nesting honu'ea yet this summer? Best Regards, George

(9)

Date: Thu, 20 Jul 2000 18:36:06 -1000
From: Steve Williams <williams@mauigateway.com>
To: Victoria Smith <u2vnmuaui@aol.com>, Susan Bradford <gsbl@maui.net>, Skippy Hau <skippy_hau@exec.state.hi.us>, Pat Ryan <ryan@t-link.net>, Lynda Williams <scubadoo@mail.net>, Kitti Jensen <kitti_jensen@fws.gov>, Katy Nicholas <katynicholas@aol.com>, Jean Johnson <dugong@tiki.net>, Janet Cowan <rcowan@maui.net>, Jackie Frost <honu@shaka.com>, Hannah Bernard <wild@aloha.net>, Glynnis Nakai <glynnis_nakai@mail.fws.gov>, Gloria Adlawan <ladlawan@aol.com>, George Balazs <gbalazs@honlab.nmfs.hawaii.edu>, Dick Kiligian <dickkili@maui.net>, Diane Nelson <rrnelson@gte.net>, Diana Schulte <mdd@mauigateway.com>, Claire Cappelle <claire.cappelle@noaa.gov>, Brenda Killian <killian@aloha.net>, Bill Gilmartin <jarman@aloha.net>, Barbara Noel <noel@maui.net>, Angela Plummer <ajplum@aloha.net>, Allan Ligon <aligon@aol.com>
Subject: Beach Patrol

18 JULY MAUI Feduce

A follow-up on the turtle tracks Tuesday morning:
Very definitely a nesting crawl. Distinct tracks up the beach into an area of open sand dune backed by some young Kieve trees. She wandered about and dug into several areas.
Eggs were found on the surface indicating a likely nest site. Because of the size of the tracks and eggs there is reason to suspect that this could be a green turtle instead of a hawksbill.
We may know before long, Hawaii Wildlife Fund will watch the beach at night for her return (2-4 weeks) and if she is a hawksbill will likely plan to attach a satellite tag to her later in the season.
If this is a green turtle the pattern may be a little different than we are used to with hawksbills, I am told they make fewer nests (perhaps only 2) per season and lay smaller clutches (around 50 eggs). At any rate, it's good to have a nesting turtle, now we watch for the next one.

Update from the big island: 4-5 nesting females (hawksbill) 8+ nests

Hawaii Wildlife Fund has finished the pamphlet about sea turtles and lighting "Hawaii's Endangered Hawksbill Sea Turtles Need Your Help" It turned out great and is very informative. Since loss of habitat (development/lighting) is perhaps the major threat to turtle nesting in South Maui this issue is extremely important. Hanna Bernard has asked for our help in distributing the pamphlets. For those of you who can spare a few hours this is a chance to really help out. Call Hanna at 572-7327 or e-mail <wild@aloha.net> Copies of the pamphlet are at FWS office or from Hannah or me.

FYI : the longline fishing industry is not affecting hawksbill turtles. Hawksbills do not swim in the colder northern water where longline fishing is done. It is the leatherback turtle which is suspected to be impacted by longliners along with other wildlife such as albatross. Leatherback turtles live most of their lives in open ocean, are known to dive deeper than 1000 meters, can weigh over 1500 pounds, and are the only sea turtles without a hard shell.

Date: Thu, 27 Jul 2000 07:42:42 -1000
From: Allen Tom <allen.tom@noaa.gov>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Eggs at Kihei

George - let me know which day you will be here - you can view the turtles in the freezer as well. I am out of the office in Honolulu on Tuesday and WED - but will be here the rest of the time.

A

"George H. Balazs" wrote:

- MAUI Feduce
- > The few eggs found at the surface at the recent nesting site were received today by Fedex. I can guarantee everyone they are not hawksbill eggs, -far too large. They are also a bit outside the upper-end diameter size for Hawaiian greens (realizing also that there has never been a documented nesting of a green on Maui). What does that leave? Well, two years ago a leatherback laid an infertile clutch on Lanai. A one-time event. Also, in the early 80's I confirmed without doubt the false nesting of a leatherback near Maalaea.
 - > But let's not spread any false rumors. At this moment, it's unclear what species made the eggs. I've Fedexed them to our sea turtles genetics man in La Jolla. If there's any fertility to the eggs (a blood dot), he can "read" what species it is from the sequence. In the meantime, please call me on cellular 286-2899 if a turtle returns/re-nests in that same general area. Also, I'll be on Maui for other business sometime next week and would enjoy seeing the site. Aloha, George

10

----- Forwarded message -----
Date: Tue, 01 Aug 2000 14:32:37 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Fwd: Re: interesting turtle

Mau

FYI (sent him the three pics I sent you earlier)

>Date: Tue, 01 Aug 2000 14:30:41 -1000
>To: Peter Dutton <peterd@caliban.ucsd.edu>
>From: Ursula Keuper-Bennett <howzit@turtles.org>
>Subject: Re: interesting turtle

>
>Aloha Peter,
>
>Good to hear from you. Ho'omalu was at NorthHouse again this morning
>resting with the honu. Here are some video freeze frames.
>The "takeoff" shots show her plastron. I think she's black through and
>through. No honu in here. There is nothing about her that looks like a
>honu blend.
>
>
>We've been watching her behaviour too. Like her interactions with honu
>and stuff. But it looks like we just get one crack at her in a
>dive. Once she lifts for air she doesn't return to rest anywhere near
>us. This morning when she lifted I watched her sipping air on the
>surface. She kept looking down at me (I was inches from a honu). I hoped
>she'd see if her honu friend had no reaction (concern) neither should she.
>
>We've been hoping she'd drop a turd but so far no luck. That's about the
>only hope we got. She's sure not going to drop a skin sample.
>
>She's not a hybrid, Peter. Peter and I will both bet on it.

>Best wishes.

>At 10:49 AM 8/1/00 -0700, you wrote:
>>Hi Ursula,
>>
>>I saw your message on CTURTLE re. the interesting turtle.
>>
>>I'd agree, this is an eastern Pacific green turtle (a.k.a. "black"). It is
>>not necessarily a hybrid, since the Mexican greens do come in a variety of
>>shapes and colors. Our genetic studies are shedding some light on the
>>interesting question of migration of greens around the Pacific, and
Re: interesting turtle (fwd)

>>particularly between Hawaii and Mexico/Southern California. As I mentioned
>>to George, if someone can get a skin sample, I'd be able to run the genetic
>>analysis on this turtle and confirm whether it is of Mexican origin. It
>>would also allow us to answer the question of whether it is a hybrid. If a
>>tissue sample can't be had, we may be able to use poop, if she'll oblige....
>>
>>regards-Peter
>>
>>
>>Peter H. Dutton, Ph.D
>>NOAA-NMFS
>>Southwest Fisheries Science Center
>>P.O. Box 271, La Jolla, CA 92038
>>
>>tel: 858-546-5636 FAX: 858-546-7003
>>
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(11)

Date: Tue, 01 Aug 2000 14:53:50 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Fwd: Mexican black turtle?

fyi. I'll write a response to Alberto later. We're due in the water now.
Hug to 1973.

>X-Sender: abreu@ola.icmyl.unam.mx
>X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
>Date: Tue, 01 Aug 2000 12:03:00 -0600
>To: Ursula Keuper-Bennett <howzit@TURTLES.ORG>
>From: "F. Alberto Abreu Grobois" <abreu@ola.icmyl.unam.mx>
>Subject: Mexican black turtle?
>X-Antirelay: Good relay from local net1 132.248.118.0/16
>
>Hello Ursula:
>
>Wow, congratulations on finding and noticing this turtle! What interesting
>finding. You may have been at the Black sea turtle Colloquium at the last
>Symposium, organized by our very best Brian Bowen. If you had, you would
>have noticed the big debate raging about how some people (Peter Pritchard
>as leader) consider this turtle a separate species (Chelonia agassizii)
>whereas others (led by Bowen and Karl) have added recent molecular
>evidence showing that the very scant genetic differentiation does not
>support this view and instead should be considered a distinct population
>of a collection of populations belonging to Chelonia mydas. If anything,
>there is support to distinguish between the Atlantic branch of Chelonia
>(true C. mydas) and a sister branch for the Pacific populations (C.
>japonica?). At any rate, a finding of the classic "black turtle" morph
>(tapered shell edge, darker carapace coloring, etc) in the Hawaiian
>islands is something to research further. I would advice that you make a
>big effort to get a tissue sample and send it to one of the researchers
>working with populations of the black turtle over in the American
>continent for genetic analysis. Most prominent among these is Dr. Peter
>Dutton at La Jolla (peterd@caliban.ucsd.edu) who has the best resources to
>deal with the analysis. But I advice you also contact with J Nichols
>(jnichols@AG.ARIZONA.EDU or wallacejnichols@earthlink.net) and Omar
>Chassin (chassin@ate.oikos.unam.mx) who are also doing postgraduate
>research on the genetic characterization of feeding agregations of black
>turtles in the Gulf of California (Gulf of Cortez) and of rookeries of the
>Michoacan State in Mexico, respectively and make sure they are in on the loop.
>
>For an excellent description of the methods involved both for sampling and
>the analysis, I am attaching a pdf version of Nancy FitzSimmon's chapter
>of our Techniques Manual. I am sure that we can learn much about the
>habits of these beautiful turtles from your contribution.

----- Forwarded message -----

Date: Fri, 11 Aug 2000 15:24:46 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Shredders' BACK!

Nested at East June 20th.

Sighted here 1:48 PM at (where else?) Shredder's Ledge.

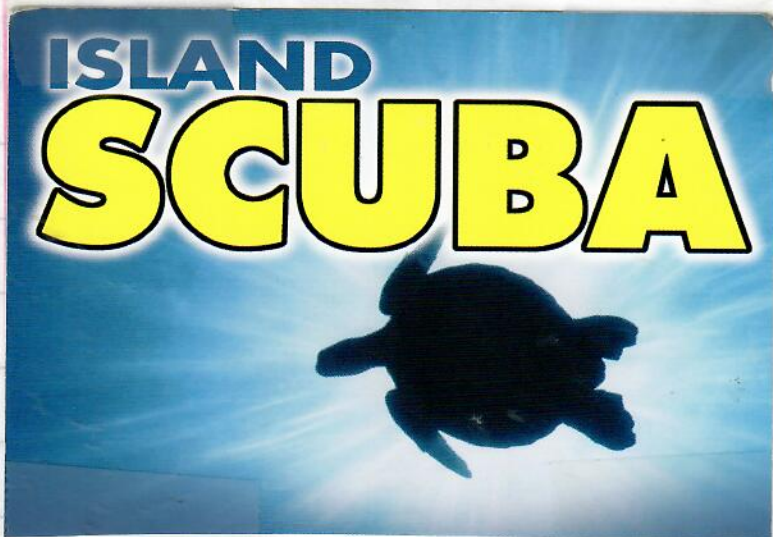
Best of all George the #1 tumour she developed in 99 is now gone. I suspect there's an "FP signature" there and will try over the next few weeks to get a macro of that.

But Shredder is as of today also ANOTHER Honokowai regression case. We are so happy we can't stand it. Mahalo to FFS crew to take such good care of her.

Sending pic of her mototool and her left profile so you can see she no longer has a tumour in eye posterior (see NOAA.GOV)

Now to wait for U249 and Tiamat....

12



(14)

8/14/00 6 JACTATOR from Honokowai
hand delivered to Ron LU this
A.M.

8/14/00 FedEx of 4 skin bars in AMSO
to Peter (from Hoona~~ku~~ Honokowai)

Deployed ^{Stowaway} Loggers #122362 8/14/00
at "The Rock" Honokowai, Maui

Hono Kōwai, MAUI

(15)

w/URSULA & Peter

13 AUGUST, 00

Sunday (Haha Pass) 7 AM Island Air departure

for Hapa'ua to Dive w/Peter & Ursula

(2) See nest site at 505 front St. Kahana.

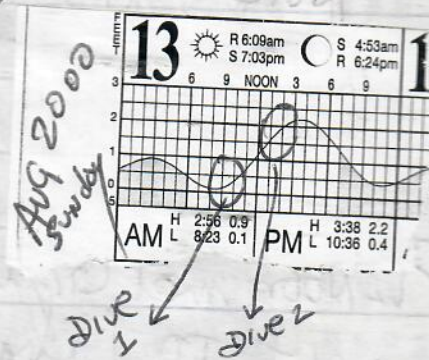
(3) collect some Trachinotus (4) See Ho'oma'u

(5) See Polzbarney (check for emaciation)

8/13/00 Sunday

McDonalds
Kahana, Maui

Now we
know how
the hole
feels!



Video production idea of Ursula & Peter.

DIVE ONE

put out
STOUTWAY

265 MIN. TO North House / MT. Balazs

45 ft. GB, U & P. - saw ~~an~~ only one turtle w/tumors of any significance (TS2) - saddleback wrasse biting jaw tumor. Other turtles had small eye tumors - U & P working on "FP signature" - tissue changes in the eye/eye corner, indicative of tumor regression.

Looked in "Polzbarney" ledge - he wasn't there

(16)

8-13-08
Sunday

* Hano Houa

They have ID'd 200 ^{summer} ^{50%} ^{90%}
Two sizes & 90 FT

but another smaller turtle was (they recognized it). Lots of Cladophora in water through sand flats, but not at North House or where coral mounds and turtles start. Note logs recently put in Mt. Baras, by U&I. Went to Turtle House

~ 12 Noon met Glynis near private "Parrot House" next to Labaina Shores Hotel - turtle had nested there 8/7 Monday night. She gave me a photo of green turtle returning to the water. Not very far from the ocean. Photos taken.

DIVED out ~ 1:30pm high tide - Strong 44' current, swimming to the north. 65 min. to North House - Spearred 6 Tactator (largest was at Mt. Baras). More Tactator seen at places where turtles were laying.

Watching over the turtle's nest



8/1/66
Dave Warren of Lahaiake keeps watch Tuesday on a turtle's nest at a West Maui beach. Warren said he and his daughter Maggie Zano, 14, were out on the beach late Monday night when they saw a turtle crawl out of the water and proceed to dig a nest for its eggs. Warren said he believes it was a green sea

The Maui News / EUGENE TANNER photo
turtle, but officials at the state Department of Land and Natural Resources said the species has not been confirmed. Warren said the turtle took about three hours to dig the nest and lay its eggs before returning to the ocean.

CB page 1009

(11)

(18)

Honohoua

GB day trip
to Dive
with U & P.

8-13-00 DIVE 2
Sunday

Saw Ho'omahu out farther - alone
resting on bottom. Approached close - no
feels - no spots visually - not clear cut Mexican
black by any means, to my eyes.
A mix? Pointy snout to RH seen.
Saw some skin barns - Hind groin
& base of tail. Picked 4 off, hoping
enough skin attached for DNA (to Dutton).
Turtle then lifted up slowly -
departed. Plastign has grip, but
not heavy pigmented nor extensive.

Returned to # 303 Nohouani
Depart at 5:35 pm Island Aus
for Honolulu.

Reds at places where turtles were being
TO P&B

22

Date: Thu, 24 Aug 2000 19:45:37 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: K17 final final measurement

33 inches (83.8cm) to posterior tip.

K17 hangs out the same place every day. When you're here you can measure him, howzzat?

At 03:30 PM 8/24/00 -1000, you wrote:

>what's the shell crack? Fartherest most extention of posterior tip is
>what we want. You say us do it several times over, remember?

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

>On Thu, 24 Aug 2000, Ursula Keuper-Bennett wrote:

>
> > K17 gave Peter all the time he needed second dive to run a tape down his
> > back. You can bank on this measurement Peter said. From very
> beginning of
> > shell at the neck to shell crack... 31 (78.7 cm) inches. To end of shell
> > 33 (83.8 cm) inches.
> >
> > You'd measured him as 46.5 cm in 1993.
> >
> > He has his own hangout. Tomorrow we do very close video of all tumours.

K17
Rose Black
Mau Rock

23

----- Forwarded message -----
Date: Tue, 15 Aug 2000 22:57:22 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Still not receiving...

Reduce
May

Only one dive today (went out on first only to find one tank with a dust cap on it but only 500 lb when turned on) Killed that attempt. Good thing about only one dive is I get to work on the database. Finished IDing through Aug 3.

Get this. 166 honu (included Ho'omaluu). Can you believe that? 168 with Keeki and Kiniana.

94 of 166 (57%) resights.

I agree with Peter. By the time we're through, we'll top 200 ID'd for 2000.

Did not sight Ho'omaluu today but I keep saying (and Peter keeps disagreeing) that she's a cherry turtle. Mainly shows in pm on nice sunny days and today sure wasn't. Ocean a lot quieter tonight. If conditions are at all decent tomorrow we're trying for three.

Your phone call this morning was appreciated.

----- Forwarded message -----
Date: Wed, 16 Aug 2000 21:21:48 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: re: K17 Black Rock turtle

K17
Reduce
MA

Looks like we're back up, hi.

Yes, here's the info I have on him in database.

"TAGGED GHR 93/07/29 at Black Rock. 46.5 cm. 1998 stats --Probable prop hit directly at rear of carapace, looks old and healed ok 940216 reported as having fishing line round cloaca. Still there."

Size? We're classifying him as a subadult even though he's a male. Like TAMU he's matured small. CAN measure him next time we see him and then deny we ever did that.

re: the "nasty turtle-hurting little fish" I have a favour to ask.

At 05:38 AM 8/16/00 -1000, you wrote:
>From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
>To: Ursula Keuper-Bennett <howzit@turtles.org>
>Subject: Re: K tag read again.
>In-Reply-To: <4.3.2.7.2.20000815161630.022d6de0@pop.vex.net>
>Message-ID:
><Pine.SGI.3.91.1000815213650.101797A-100000@honlab.nmfs.hawaii.edu>
>MIME-Version: 1.0
>Content-Type: TEXT/PLAIN; charset=US-ASCII

>Excellent resight for sure. Wasn't that the turtle (one of several) Russ
>and I tagged at Black Rock in 92 or so? Home now so don't have database
>in front of me to check. This turtle seems to have grown Very Fast, if
>so. Is it the size of Hoomaluu? (I'm guessing low 80's with the caliper).

>Robin LaRoux, Peter's genetics lab person, received the barns early today
>and immediately went to work doing the preconditioning etc, what ever it
>is they do for pcr analysis. That's the good news (full speed ahead). The
>less good news is that part of the process with such small samples is
>.time. Two weeks of it, before knowing something. Sounds crazy to me,
>but I have to believe. So, when I get back there, if the turtle presents
>herself, she shall have more barn plucked "just to be sure" (on the safe
>side).

>Other news is that Bruce won't have my housing until about the 26th. Back

24

Date: Sat, 19 Aug 2000 21:12:45 -1000
 From: Steve Williams <williams@mauigateway.com>
 To: Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>, Barbara Noel <noel@maui.net>, Bill Adams <mauiadams@aol.com>, Bill Gilmartin <jarman@aloha.net>, Brenda Killian <killian@aloha.net>, Claire Cappelle <claire.cappelle@noaa.gov>, Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>, Dick Kiligian <dickkili@maui.net>, George Balazs <gbalazs@honlab.nmfs.hawaii.edu>, Gerald Bitnias <hulabear1@juno.com>, Gloria Adlawan <ladlawan@aol.com>, Glynnis Nakai <glynnis_nakai@mail.fws.gov>, Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>, Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>, Jeff & Jody King <jking@words-and-pictures.com>, Katy Nicholas <Katynicholas@aol.com>, Lynda Williams <scubadoo@mail.net>, Marie <zeroimpact@maui.net>, Pat Ryan <ryan@t-link.net>, Skippy Hau <skippy_hau@exec.state.hi.us>, Susan Bradford <gsbl@maui.net>, Victoria Smith <u2vnmui@aol.com>
 Subject: turtle tracks

Great news!

This morning (August 19) tracks and a likely nest site were found near the Kealia pond outlet by Fergie, Jeff and Jodie. The tracks led up the beach into aki aki grass and to an unfilled nest pit with a cylindrical nest chamber (empty) She then wandered around in the grass behind the primary dune and then back towards the water to the most likely nest site at the base of the primary dune just makai of the edge of the grass. From there the tracks led back to the water. The whole area of tracks and nest site was video taped (thanks to Jeff and Jodie). It is on VHS and available.

Track width measurements of the fresh tracks were 34" consistent with the 32" measurements taken of the windblown tracks yesterday. Impressions are this is a hawksbill and, as Hanna has pointed out, could be Hapa the satellite tagged turtle from 97.

The tracks were found further north from yesterday's closer the pond outlet where the beach is wide and the road is distant.. Seems like a good site to me.

Diana and Gloria are patrolling tomorrow and will keep a careful watch.

Steve

Date: Sun, 20 Aug 2000 08:52:08 -1000
 From: Casey Jarman <jarman@aloha.net>
 To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>, Hannah Bernard <wild@aloha.net>
 Subject: Re: Kealia Turtle tracks

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

George.....she was sat tag #4803. Txmtr placed on her night of 9/22/97.
 Her flipper tags are H326 and H327.

Sun a.m.....back home from Haw. Conserv. Conf on Oahu.

Have a fun week with program reviews!!! -Bill

Forwarded message
Date: Fri, 18 Aug 2000 05:10:27 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: FP signature

Now that we're confident an FP signature exists we think it's important enough to aim at a journal for. I mean as in The Literature ("The" pronounced "THEE"). We know, as a result that we can't do a Symposium paper on FP signature because journals want first crack at things. Even Peter who was doubtful about this FP signature being able to tell the FP "status" of a turtle habitat can now see the applications.

He too agrees this one's for the journals. But you know me. I'm already wanting to hold off and wait for next year's eye data to come in.

Our database shows that as of right now we have 36 confirmed regression cases. But get this, we also have 43 "suspected". A decent portion of those 43 should be confirmed in our 2001 season. We'd be in an even stronger position with more examples.

The question is how many examples does one need to make a case for the existence of an FP signature?

We know we've got the most important ones. The ones who had the barests of #1's in their eyes and regressed the following year. Barely a "sniffle". Zeus, Hoa and Kaula (all males) are in that category. Got Zeus and Hoa's eyes and prove that even the most subtle does of FP leaves a signature.

Haven't seen Kaula all summer. I don't like it.

At 06:42 AM 8/17/00 -1000, you wrote:
>I'll take care of that, or at least give you some photo input.
>

signature (fwd)

>
>On Wed, 16 Aug 2000, Ursula Keuper-Bennett wrote:
>
>> Actually Peter wanted to do regression. He said it was very important. I
>> didn't want to do it. Then you showed up and said we should do regression
>> and Peter was smug for several months thereafter.
>>
>> Note, ever since about 1995 we've focussed on the eyes, but focussing on
>> regression made us find the FP signature. And when you find that the
>> applications for in-the-field is really exciting. Everything I wrote to
>> you about being able to tell the comparative "stage" of a turtle
> habitat is
> true.
>>
>> All in the eyes.
>>
>> Three dives today. All we did was video closeups of eyes. Many had been
>> done before early July. Now we do end-of-season video and finally
>> end-of-season macro stills. The macro stills are a bitch to do
>> successfully and yet they're the most important.
>>
>> Biggest problem? I still don't know what a normal eye looks like.
>> -----

26

----- Forwarded message -----
Date: Sun, 20 Aug 2000 15:40:31 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Server screwed

Sorry. I didn't make myself clear. Let me explain. There are turtles from the early Nineties like

1991 #11
Fred 1992
McTaggart (F765) 1992
Ho'oulu 1992

who before we came to Hawaii are recorded as not having FP. Now when you consider that Fred was a teeny juvenile in 1992 things get exciting.

Except.

Close inspection THIS summer shows Ho'oulu is GETTING an eye tumour and Fred and 1991 #11 have posterior lumps/abnormalities and Peter and I took close looks and both figure it's FP coming in.

Now McTaggart? She's got gray and warping posterior and we figure for her to have had FP... that is what we're seeing is an FP signature. In the old days she'd never let us get close.

We now know some honu get such a subtle subtle dose, the teeniest #1 in the eyes and regress upon our return the next season it is possible we could have missed McTaggart's FP stage.

It happened in a dive this week. We resighted 1991 #11 AND got a close look at Fred. BOTH are now listed as FP vulnerable. Next year should tell the tale.

(my server's working again. For the moment...)

At 01:19 PM 8/20/00 -1000, you wrote:
>I simply can't believe it either. the basis is this signature scar, and
>when you have it ready naturally I'd like to review scrutinize from a
>constructive and objective arena.

----- Forwarded message -----
Date: Sun, 20 Aug 2000 15:48:15 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Server screwed

For example, I just did a query of the database. Turtles from 1988 to 2001 (that would include 2000) who've been sighted for 5 summers (that's sighted not resident).

we have 28.

All have had FP save the three I mentioned previously and are getting it.

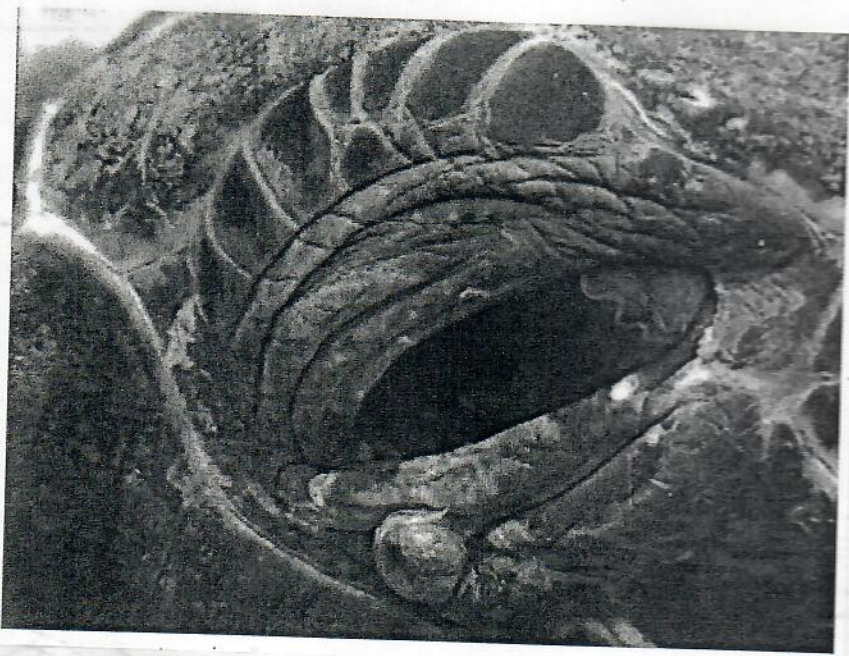
Only other honu is Aikane. Not sighted since 1996 and whose eye you looked at and said it was abnormal. Hindsight being what it is, yes, I agree abnormal. Looked EXACTLY like Akebono's eye last summer. Akebono now has eye tumours.

Our biggest problem?

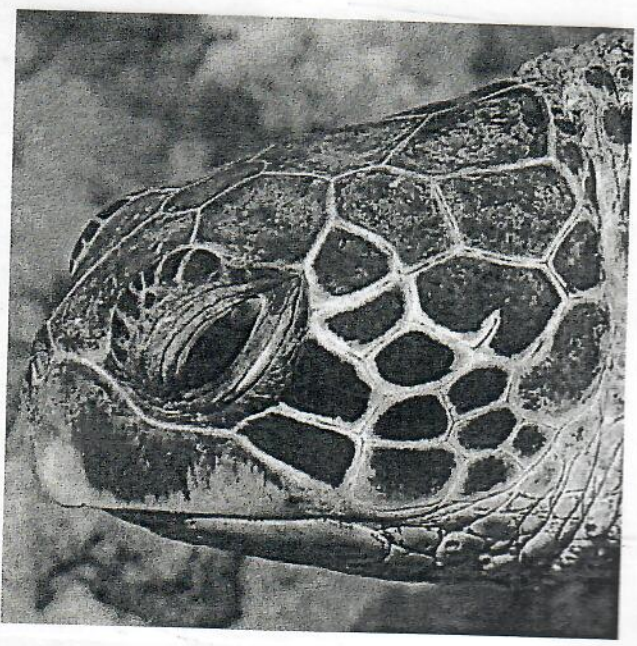
When the posterior's only gray and pre-lump, it's difficult to tell if it's FP coming or going.

At 01:19 PM 8/20/00 -1000, you wrote:
>I simply can't believe it either. the basis is this signature scar, and
>when you have it ready naturally I'd like to review scrutinize from a
>constructive and objective arena.
>

JPEG image 640x480 pixels



JPEG image 474x474 pixels



28
Forwarded message
Date: Thu, 24 Aug 2000 08:16:44 -1000 (HST)
From: George H. Balazs
To: Steve Williams
Cc: Glynnis Nakai,
Skippy Hau,
Hannah Bernard, Bill Gilmartin
Subject: Re: Lahaina Nest Crawl

The discovery/documentation of this nesting resulted from a phone call made to me by a Melissa that resides in Lahaina. She called my office here in Honolulu, following encouragement from friends that knew of me/my phone number. She witnessed the nesting firsthand, saw the turtle, gave descriptions that seemed to verify eggs being laid (though she wasn't so close as to have seen eggs). Rather than being a go-between, I immediately gave her Glynnis's office and cell phone numbers with the promise from her that she would call Glynnis. I've mailed her some literature along with a note of thanks.

I just wanted to clarify the above. Mahalo, George

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

On Thu, 24 Aug 2000, Steve Williams wrote:

- 23
- > This is a description of what I found yesterday (8-16) in Lahaina.
 - >
 - >
 - > The tracks and potential nest site were found at Malu'ulu O Lele Park
 - > just north of 505 Front Street. Near the center of the beach front of
 - > the park there is a single patch of beach morning glory vine 25-30 feet
 - > wide, the "nest site" was found in this patch of vine. The tracks (which
 - > were fading by the time I saw them) led up the beach into the morning
 - > glory vine. About six feet into the vine there was a very disturbed area
 - > 6-8 feet in diameter where the vine had been thrashed and sand moved
 - > (thrown?) around. The sand in the disturbed area was lower in the
 - > southern side, but only by a few inches. The tracks then led back to the
 - > water. I did not find any other tracks on the beach, but if there were
 - > some they could have been covered by foot traffic. This is a busy beach
 - > during the day. A good landmark is a red and white 6 man outrigger canoe
 - > sitting just south of the "nest site", it appears to be a permanent
 - > fixture as there is a sign next to it saying "stay off the canoe" the
 - > canoe and vine appear to divert foot traffic around the nest site,
 - >
 - > leaving the site relatively "safe" Due to the already heavy use of this
 - > beach I think the less publicity the better. I took some photos (prints)
 - > not yet developed.
 - >
 - >
 - > I wish our hawksbill tracks were as straightforward to read. A hui
 - > hou, Steve
 - >

Date: Wed, 23 Aug 2000 21:25:08 -1000
From: Steve Williams <williams@mauigateaway.com>
To: George Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Glynnis Nakai <glynnis_nakai@mail.fws.gov>,
Skippy Hau <skippy_hau@exec.state.hi.us>
Subject: turtle get together

George,

First, I did look at the "nest" in Lahaina today. The tracks were faint (mid-day) but the "nest site" was clear, in an area of beach morning glory, she made what appears to be a distinct dig and thrashed up an area six by eight feet. This is a busy beach with foot traffic from surfing schools and other beach goers, only a couple of hundred yards from the Lahaina harbor break wall. However the nest seems safe. The vegetation and a six man outrigger which sits nearby should serve to keep foot traffic away. My guess is this is the same turtle that nested not far away two weeks ago.

Second, Glynnis has mentioned to you a get together of volunteers here on Maui in early Sept. What we have in mind is a mid season evening pot luck for volunteers and everyone to meet and get acquainted. We are welcome to gather at my place in Kihei. The pool deck in the back lanai would serve fine for a casual slide show after dark.

You are more than welcome to stay over here (I almost insist you do), our downstairs is empty since the girls are both at college. Plenty of space, no one inconvenienced, and we'll get you to the airport in the morning. so stay and enjoy. We'll look forward to it.

29

Date: Sun, 03 Jul 1995 16:42:52 -1000
From: SKIPPY_HAU@EXEC.STATE.HI.US
To: gbalazs@honlab.nmfs.hawaii.edu, smurakaw@honlab.nmfs.hawaii.edu
Cc: glynnis_nakai@fws.gov
Subject: 8/24/00 Nesting Turtle Tag Number

George & Shawn,

I just talked with Hannah and the volunteer who watched the nesting last night. The tag number is 5690. She said it is about 20 feet away from the first nest. It started nesting around 09:40 PM and took about three hours.

Hannah said she would be looking at the location of the second nest by the park. Steve gave you a description yesterday.

Could you please give us a history of this turtle. I'm sure there is a heightened awareness on these beaches.

Very exciting. We will be diving at Molokini next Monday.

Hope the frozen turtles come over o.k. The turtle was bigger than the plywood box. It is similar to the one Brooks and I dragged from Little Beach in Makena several years ago...

Aloha,
Skippy

----- Forwarded message -----
Date: Thu, 24 Aug 2000 21:31:36 -1000
From: Hannah Bernard <wild@aloha.net>
To: Casey Jarman <jarman@aloha.net>, gbalazs@honlab.nmfs.hawaii.edu,
williams@mauigateway.com, glynnis_nakai@mail.fws.gov,
skippy_hau@exec.state.hi.us
Subject: LAST NIGHT'S NESTING...Turtle Nesting on The 23rd of Aug. 2000

A summary will be submitted by the other nestwatch volunteer, Mary Jane, sometime tomorrow, please do not forward this one.

>X-Originating-IP: [216.202.5.251]
>From: "imme brueshaber" <imneb@hotmail.com>
>To: wild@aloha.net
>Subject: Turtle Nesting on The 23rd of Aug. 2000
>Date: Thu, 24 Aug 2000 21:31:26 GMT
>Mime-Version: 1.0
>X-OriginalArrivalTime: 24 Aug 2000 21:31:26.0319 (UTC)
> FILETIME=[A85C37F0:01C00E12]
>
>Dear Hannah,
>here quickly the facts,
>
>Place: 505 Front Street, Lahaina HI
>right in front of Beach Access
>
>Date> 23rd Aug 2000
>Time:
>come up around 9:30 (approx.)
>sighted her at 9:40
>Diggin the Hole till about 10:40
>Nesting for about 10-20 min.
>Closing the Hole till 12:40
>Going back to the ocean.
>
>Tag Number 5690
>Green Sea Turtle
>Big one!!! Maybe about 200 pds....(maybe...smile)
>
>All you need???
>Need more?
>Let me know..
>Very healthy looking, no tumors or anything, no cut of flippers...
>
>See you today anyways.

*Reduce
Noise*

30

Date: Thu, 24 Aug 2000 21:50:28 -1000
 From: Hannah Bernard <wild@aloha.net>
 To: dfisher@maui.com, jowaisj@email.com, jkelton@maui.net, matntif@maui.net, diana.lehet@attws.com, anselmpauls@hotmail.com, alokahi@tiki.net, peter@creativity.com, janpryan@excite.com, skyhawk@maui.net, rtu@gte.net, xseveredsilencex@aol.com, johnalgarne@hotmail.com, Steve Williams <williams@mauigateway.com>, Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>, Barbara Noel <noel@maui.net>, Bill Adams <mauiadams@aol.com>, Bill Gilmartin <jarman@aloha.net>, Brenda Killian <killian@aloha.net>, Claire Cappelle <claire.cappelle@noaa.gov>, Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>, Dick Kiligian <dickkili@maui.net>, George Balazs <gbalazs@honlab.nmfs.hawaii.edu>, Gerald Bitnias <hulabear1@juno.com>, Gloria Adlawan <ladlawan@aol.com>, Glynnis Nakai <glynnis.nakai@mail.fws.gov>, Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>, Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>, Jeff & Jody King <jking@words-and-pictures.com>, Katy Nicholas <Katynicholas@aol.com>, Kitti Jensen <kitti_jensen@fws.gov>, Pat Ryan <ryan@t-link.net>, Skippy Hau <skippy_hau@exec.state.hi.us>, Susan Bradford <gsbl@maui.net>, Victoria Smith <u2vnmaui@aol.com>, lakesun_2001@yahoo.com, immeb@hotmail.com, lakesun_2001@yahoo.com, dfisher@maui.com, jowaisj@email.com, jkelton@maui.net, matntif@maui.net, diana.lehet@attws.com, anselmpauls@hotmail.com, alokahi@tiki.net, peter@creativity.com, janpryan@excite.com, skyhawk@maui.net, immeb@hotmail.com, rtu@gte.net, xseveredsilencex@aol.com, johnalgarne@hotmail.com, gfuller@netmagic.net, Casey Jarman <jarman@aloha.net>, skippy_hau@exec.state.hi.us, glynnis.nakai@mail.fws.gov
 Subject: 4th Lahaina nest??

This message is from Hawai'i Wildlife Fund Nestwatch volunteer, Mary Jane Grady. Hannah

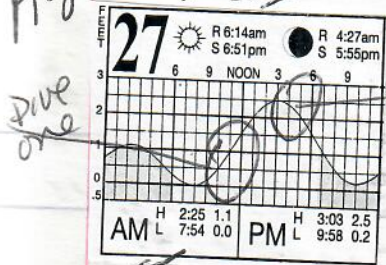
>X-Originating-IP: [152.163.197.5
 >From: "mary jane grady" <maryjanegrady@hotmail.com>
 >To: wild@aloha.net
 >Subject: turtle nest
 >Date: Thu, 24 Aug 2000 21:04:24 HST
 >Mime-Version: 1.0
 >X-OriginalArrivalTime: 25 Aug 2000 07:04:24.0125 (UTC) FILETIME=[B3211ED0:01C00

>
 >Last night, Wednesday August 23, a green sea turtle with tag #5690 nested in
 >Lahaina. The turtle was sighted at 9:40 a few feet from the previous nest
 >on August 7, toward the east end of Front street. She moved approximately
 >15 feet from the other nest and began nesting, above the high tide line.
 >She dug from 9:50 until 10:40, laid eggs until 11:10, and finished covering
 >the nest at 12:40. As she made her way back to the ocean we checked for
 >tags and found one on her right front flipper (RFF). There were no visible
 >tumors. The observers were Imme, Mary Jane Grady and Matthew Johnson.
 >
 >During the nesting period, we had to get three dogs out of the area. There
 >were people walking with flash lights on the beach which we asked to be
 >turned off at a distance. A bright light from a hotel is also shining
 >directly towards the nesting area.
 >Another nest was detected today in the general vicinity of the others.
 >
 >As we were setting the area up for protection a guy approached and reported

>to have seen the turtle at about 2 a.m. at the site, and the nest in the
 >morning when he woke up.
 >
 >

August 27, 2000 Sunday

HONOHOWAI, MAUI



27 August 2000 Sunday

FZ 205 Aloha 630am depart alone for KAHULUI MAUI

- Objectives:
- 1.) Collect ^{many speared - All associated with biting turtles.} more JAGATORS
 - 2.) Collect more skin ba ^{3 more collected} barnacles from HOOMALU ^{"BLT" turtle}
 - 3.) Observe ^{inspect} k17 ^{Accomplished} Tagged 1993 by ^{Russ} MiyA/GB
 - 4.) See ^{at 830pm seen low tide} latest nesting site(s) by 5690 green turtle released by the Richardson Ocean Center 9/11/81
 - 5.) Deploy a temperature logger in POLZ'S ^{Accomplished} nesting cave. ⁷⁶³⁶³
 - 6.) Renew Vows w/ Ceremony - U & P ^{Accomplished!} ^{Keefa - Video w/ U & P}
- + collected a soft fecal pellet - saved.

Rainy in Kahului - windy

Arrive ~ 7AM - Avis Rental car - drove to Lahaina - Front St. nesting site - photos. Close to walkway right of way. Low Tide. But high tide had some into body pit thereby suggesting eggs may be getting soaked from underneath. Drove to HOHONAU, picked up Peter & Ursula drove to KAHANA McDonalds

Needs -
 Forward 5690
 message to Puleloa,
 WTRP, SS# Scott
 Veronica

38

Sunday

27 Aug. 00 Hanohoua I

Photo at Macdonalds of the 3 of us.
 TO WOHOMAU, Dive ONE ~ 70 MIN
 45 ft. ^{MT. BAAZS} TO North House - gutte
 House - the rock. HO'OMAU
 only turtle by MT. BAAZS, Picked
 3 more skin kamucles from tail
 region. Spearred several STACTORS.
 Saw K-17 up close. V-notch
 injury to posterior PC's carapace.
 Saw 3 toys - snug but not
 imbedded. Small #2 left eye
 but seems regressing (smooth).
 Shot more Stactons. Saw
 perhaps 10-12 turtles total, only
 151 cases. Saw GOIC?

Ate lunch at Smoke-House - site where
 heads of feeding turtles are seen close
 to shore late pm. Went to Pacific
 Dive Shop - picked up The Life GW Housing
 and bought a full length black ^{thin} dive suit.

Dive TWO 35 ft ~ 60 MIN. Reef L
 High Tide - Certain parts of reef seemed lined

Honolulu 27 August 00

Sunday

(3)

with large turtles. ones with tumors ^{28 August =} were only TS1, except for one turtle that was a TS2. Saw 281-U new Mototoof (Triant) fresh back from FFS. Was recorded as her by Vanessa & Aaron. Found TUTU / US21. Renewal of U & P

Need tag #'s
All Van has 10,000 series
she has a tag
according to Pete.

vows - I videoed w/ their camera - TUTU present.

Many males seen - some w/ skinny tails, (others a few) with massive thick base (large diameter).

Drove back to Kahului -
Aloha Fl. 229 8:10 PM TO Honolulu.
"8/28 2123 S.L."

8/27 Tobias - 2 at "Banner House"
2 at N. Ridge
1 at Turtle House
3 at N. Flats

34

Historical Information for Turtle Tag

Tag Information:

Tag Number	Date	Tag Type	Tag Position
K804	5/15/94	1681	RFL
K805	5/15/94	1681	LFL
K806	5/15/94	1681	LHF
K808	5/15/94	1681	RHF

Date	Type of Encounter	Location	Tumor/Rank	Nesting Act	Straight Carapace	Interval	
						Month	Year
5/15/94	Near Shore	Hawaii, Kahaluu, South Kona	0		57.5	---	---

----- Forwarded message -----
Date: Wed, 30 Aug 2000 07:47:58 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: New tag read but a weird one

(Wrote this yesterday then forgot to send!)

K808 on RHF. Peter is certain. Said he got an excellent look at it.
We figured your K turtles are Black Rock. we're used to two-digits after
the K, not three.
Would appreciate info on this honu

Date: Fri, 18 Aug 2000 18:07:22 -1000
From: Steve Williams <williams@mauigateway.com>
To: Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>,
Barbara Noel <noel@maui.net>, Bill Adams <mauiadams@aol.com>,
Bill Gilmartin <jarman@aloha.net>, Brenda Killian <killian@aloha.net>,
Claire Cappelle <claire.cappelle@noaa.gov>,
Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>,
Dick Kiligian <dickkili@maui.net>,
George Balazs <gbalazs@honlab.nmfs.hawaii.edu>,
Gerald Bitnias <hulabear1@juno.com>, Gloria Adlawan <ladlawan@aol.com>,
Glynnis Nakai <glynnis.nakai@mail.fws.gov>,
Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>,
Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>,
Jeff & Jody King <jking@words-and-pictures.com>,
Katy Nicholas <Katynicholas@aol.com>,
Kitti Jensen <kitti.jensen@fws.gov>, Lynda Williams <scubadoo@mail.net>,
Pat Ryan <ryan@t-link.net>, Skippy Hau <skippy_hau@exec.state.hi.us>,
Susan Bradford <gsbl@maui.net>, Victoria Smith <u2vnmaui@aol.com>
Subject: Turtle tracks

This morning, August 19th, tracks were found and reported by Claire,
Susan and Gene near the pond outlet. Skippy was able to look at the
tracks and thinks it was a false crawl, and may be a hawkbill turtle.
(I had the same impression) The tracks led from the water up to the
fence and then followed the fence for about 100 feet north before
reversing direction following the fence south and then returning to the
water. No apparent nest pit. Flipper measurements taken by me were 32"
width compared with 36-38" width for the tracks near the whale
sanctuary.

Very likely she will return tonight. I am making calls to alert
tomorrow's patrol and make sure we have coverage from Maalaea to Lipoa
St.

Meanwhile Fergie is going up to Lahaina to check for tracks from the
turtle that nested there 11 days ago.
More tomorrow.

----- Forwarded message -----
Date: Wed, 30 Aug 2000 21:09:01 -1000
From: <severns@mauigateway.com>
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: K-12

Dear George:

We've seen this turtle over the years at Nahuna Point (Five Graves, Maui)
but that was before we knew how to contact YOU! We saw K-12 on August 28
2000 just north of Nahuna Point, Maui. Can you fill us in on her? She (?)
looked fine, no tumors.

Thank you.

Pauline

36

Historical Information for Turtle Tag K11

Tag Information:

Tag Number	Date	Tag Type	Tag Position
K11	7/28/93	I681	LFL
K12	7/28/93	I681	R34
K13	7/28/93	I681	LHF
K14	7/28/93	I681	RHF

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace	Since Last Encounter				Overall		
						Interval		Growth-Rates		Interval		cm/mon
						Month	Year	cm/mon	cm/yr	Month	Year	
7/28/93	Near Shore	Maui, Makena, Five Caves	0	-	41.9	---	---	---	---	---	---	---
8/8/93	Near Shore	Maui, Makena, Five Caves	0	-	---	---	---	---	---	---	---	---
8/14/93	Near Shore	Maui, Makena, Five Caves	0	-	---	---	---	---	---	---	---	---
10/30/93	Near Shore	Maui, Makena, Five Caves	0	-	---	2.0	0.2	---	---	3.0	0.3	---
4/4/96	Near Shore	Maui, Makena, Five Caves	0	-	---	29.0	2.4	---	---	32.0	2.7	---
3/16/00	Near Shore	Maui, Kihei	0	-	---	47.0	3.9	---	---	79.0	6.6	---

Historical Inform

Tag Information:

Tag Number	Date	Tag Type	Tag Position
5690	9/11/81	I681	

Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Straight Carapace
9/11/81	Near Shore	Hawaii, Hilo Bay	0	-	21.7

----- Forwarded message -----
Date: Mon, 28 Aug 2000 14:30:49 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Safe flight

Reduce noise

Morning. I mean "afternoon". We been busy.
Get this. AM dive. NorthHouse. I tell Peter is Ho'omalulu is there we
leave her alone. Just let her be.
Ho'omalulu is there sitting beside Mt. Balazs. I take a distant 2 sec shot
of her just to record her presence. Then we work NorthRidge and then guess
what? We take a quick distant look at Mt. Balazs and Ho'omalulu is still
there, just happy to watch us from afar.
Wonderful feeling to let her be.
Then who do we see but Keeki! First time at NorthHouse. I mean think
about it. Keeki working a NorthHouse turtle trample and a few kicks maka
and there's Ho'omalulu under Mt. Balazs.
Surrounded by honu and there's Keeki the hawksbill and Ho'omalulu the
honumex. What a GREAT GREAT dive.
Only thing missing in the 'scenario was you. We both wished you could'a bin
here for this one.

Yesterday was very special. See next message.

At 06:10 AM 8/28/00 -1000, you wrote:
>Thank God the hawksbill didn't nest at Halawa on Molokai last night, or
>Bill Puleloa would have phoned me and I'd be on the 550am flight this
>a.m.! Put get a satellite tag on her.
>
>It was a pleasure and value to dive with you yesterday again, an
>experience I wouldn't have wanted to miss. Thank you for your hospitality
>and sharing of knowledge. My Aloha, George
>

----- Forwarded message -----
Date: Tue, 22 Aug 2000 19:37:54 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Fibropapillomas in black turtles (fwd)

mm Ded

OK. Now get this. We happen to know that FOUR honu nesting there this
year have had FP and are regression cases. 1% of this year's crop.
I don't want you to think I'm being obnoxious... (actually I don't mind if
you think I'm obnoxious --it's a normal state for me) think I'm being
cocky/braggy but if I had access to macro photos of those 684 eyes (342
honu) I could give you the REAL FP rate for nesting females.
And Peter and I are agreeing more and more when we look at video of eyes if
it's FP coming. Or going.
George, there's a serious increase in FP coming in this year at
Honokowai. Then again, you could counter with, we just know what to look
for now.

At 09:48 AM 8/22/00 -1000, you wrote:
>the count exact tweaked through the numbers model is for East. 342. A
>good year!

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

>On Tue, 22 Aug 2000, Ursula Keuper-Bennett wrote:
>
>> Yessir. But the capture world does not include the behemoths like Kaula,
>> Zeus and Hoa --turtles that get FP and you have to be SO CLOSE to get a
>> get
>> look at the eye tumours. And in the case of Kaula and Hoa, get eye
>> tumours
>> and lose them in under ten months.

(38)

----- Forwarded message -----
Date: Tue, 22 Aug 2000 19:52:04 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Polz

Red

No. Not since mid-July. I told you. Divers going through the cavern just made him nervous. Doesn't mean he's not out there now... sleeping there. We know he does.

Honu are smart. He remembers the last three beach exams.

re: any good photos before FP. No really. First saw him in '95 when he was squittish. Just checked his 1996 pics and already his right eye is throwing a pinprick #1 posterior. We listed him as FP vulnerable that year because we weren't certain it was a 3D lump.

To call something a tumour we MUST be certain.

What's interesting is last summer we used to see him at NorthHouse now and again. Not this year...

At 09:43 AM 8/22/00 -1000, you wrote:

>been seeing him any?
>
>Also, don't you have a good photo of his eyes well before any fp?
>

----- Forwarded message -----
Date: Tue, 22 Aug 2000 13:25:03 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: K17 measurement

Handwritten notes: *K17 = 81cm cc*

32 in on the button. 81cm. But. A complication. I told you he's got a U-shaped chunk out of his rear shell and crack extending up the spine. I measured to the end of shell (go with what you can prove). If you conservatively add another 2 inches for what his shell WOULD be (perhaps when you measured him in 93) he'd be 34 in or 86 cm.

Next. In July 29, 1993 you measured him at 46.5 cm. If we take the 86cm for example, he grew about 20 cm in seven years. or 2.9 cm per year. When we were doing measurements we determined average growth rate here to be 2.5 cm per year. So K17 is normal for this area at least.

Note, Peter and I never entered a measurement as valid without us BOTH having measured and agreed on the number. Next time we see K17, Peter will measure for confirmation.

ag read again. (fwd)

Subject: K tag read again. (fwd)

Date: Wed, 16 Aug 2000 07:50:00 -1000

From: "gbalazs@honlab.nmfs.hawaii.edu" <"gbalazs@honlab.nmfs.hawaii.edu"@swfc2.nmfs.gov>
To: "smurakaw@honlab.nmfs.hawaii.edu" <"smurakaw@honlab.nmfs.hawaii.edu"@swfc2.nmfs.gov>
"George Balazs" <gbalazs@s360.swfc2.nmfs.gov>

Shawn, resighting Honokowai, Maui for tdeps. Mahalo, Geo.

----- Forwarded message -----
Date: Tue, 15 Aug 2000 16:26:42 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: K tag read again.

K17 sighted on PM dive in 25 feet of water on way back from NorthHouse. Note it is now a MALE. Conclusive. Last sighted by us 090729 at RestSite near The Rock.

Our database calls the right eye "suspicious" and says left eye was ok.

Now it has three tiny tumours (#1 added together) in the left eye. Fibropapilloma confirmed as of right now. He's a good size now and a male so he's a strong candidate to be a regression case.

The nasty crack along his carapace has healed well but he looks like a cracked egg.

Summary K17 sighted 000815 at 2:37pm at "BannerRock"
Male status certain
FP confirmed
crack in shell healed well.

*Red
Maui*

----- Forwarded message -----
Date: Wed, 16 Aug 2000 11:21:48 -1000
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: re: K17 Black Rock turtle

Looks like we're back up, hi.

Yes, here's the info I have on him in database.

" TAGGED GHB 93/07/29 at Black Rock. 46.5 cm. 1998 stats --Probable prop hit directly at rear of carapace, looks old and healed ok 940216 reported as having fishing line round cloaca. Still there."

Size? We're classifying him as a subadult even though he's a male. Like TAMU he's matured small. CAN measure him next time we see him and then deny we ever did that.

re: the "nasty turtle-hurting little fish" I have a favour to ask.

At 05:38 AM 8/16/00 -1000, you wrote:
>From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
>To: Ursula Keuper-Bennett <howzit@turtles.org>
>Subject: Re: K tag read again.
>In-Reply-To: <4.3.2.7.2.20000815161630.022d6de0@pop.vex.net>
>Message-ID:
><Pine.SGI.3.91.1000815213650.101797A-100000@honlab.nmfs.hawaii.edu>
>MIME-Version: 1.0
>Content-Type: TEXT/PLAIN; charset=US-ASCII

>Excellent resight for sure. Wasn't that the turtle (one of several) Russ and I tagged at Black Rock in 92 or so? Home now so don't have database in front of me to check. This turtle seems to have grown Very Fast, if so. Is it the size of Hoomalu? (I'm guessing low 80's with the caliper).

>Robin LaRoux, Peter's genetics lab person, received the barns early today and immediately went to work doing the preconditioning etc, what ever it is they do for pcr analysis. That's the good news (full speed ahead). The less good news is that part of the process with such small samples is time. Two weeks of it, before knowing something. Sounds crazy to me, but I have to believe. So, when I get back there, if the turtle presents herself, she shall have more barn plucked "just to be sure" (on the safe side).

>Other news is that Bruce won't have my housing until about the 26th. Back

Maui

40

DIVISION OF AQUATIC RESOURCES - MAUI
DEPARTMENT OF LAND & NATURAL RESOURCES
130 MAHALANI STREET
Wailuku, Hawaii 96793
Phone # (808) 243-5834
August 22, 2000

To: Mike Fujimoto, Acting Administrator
From: Skippy Hau, Aquatic Biologist
Subject: Hawksbill Turtle Tracks Found at Kealia

On Friday morning, 18 August 2000, Ms. Susan Bradford reported turtle tracks at Kealia. She showed Larry Whitford (FWS) and I the location of the turtle tracks which went along the drift fencing. It appeared to be a hawksbill turtle looking for an area to nest. Several pieces of wood were broken from the drift fence. Photographs were taken of the tracks. Messages were left for Ms. Glynnis Nakai (Kealia National Wildlife Refuge Manager, FWS), Steve Williams (Volunteer Coordinator) and Ms. Hannah Bernard (Hawaii Wildlife Fund) informing them about the tracks.

On Saturday, 8/19, tracks were also found near the Kealia Pond mouth, just west of the previous tracks. I checked the tracks on Sunday and could not tell whether a nest was present or not. Ms. Glynnis Nakai tried to check for eggs and could not find any. It appears the turtle did not nest. She dug a hole above the vegetation (see attachments). It appears to have been abandoned after encountering hard substrate on the bottom.

This turtle may attempt to nest again at Kealia. Volunteers are monitoring four different locations. There appears to be one nest next to the National Marine Sanctuary Office (18 July 2000); one nest in Lahaina next to 505 Front Street (8 August 2000) and the regular nesting location at Kawililipoa (in Kihei since 1997).

c: DOCARE - Maui

Date: Wed, 30 Aug 2000 12:51:42 -1000
From: Casey Jarman <jarman@aloha.net>
To: George Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: kealia and Kawa hawksbills

[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]

MAUI

KEALIA Plan: If this turtle comes ashore again around this weekend, HWF observers will determine only if she has instruments on. I'll be back by the time of her next nesting and at that time will remove hardware (if she's our '97 turtle), or tag and put a radio tag on her if she's a new Maui nester.

KAWA Plan: I'll be back to Hawaii just before this turtle should renest in mid Sept., so will try to get her at that time.

I've tried you a few time on the phone but no answer....will try more later. -Bill

(41)

DIVISION OF AQUATIC RESOURCES - MAUI
DEPARTMENT OF LAND & NATURAL RESOURCES
130 MAHALANI STREET
Wailuku, Hawaii 96793
Phone # (808) 243-5834
September 1, 2000

To: Mike Fujimoto, Acting Administrator

From: Skippy Hau, Aquatic Biologist

Subject: Report of Turtles Chased Away By Photographers and Shark Sighting

Although I started a memo at the time of the incident, I did not finish it until this morning.

On Wednesday, 23 August 2000, around 09:00, I talked with Mr. Rich Faulkner (Ph.#661 8465). He relayed that his son saw two turtles near 409 Front Street on August 22nd. His son said the first turtle tried to come ashore around 04:00 PM and was chased back into the water by people wanting to photograph the turtle. At 07:30 PM, a "very large" turtle tried to come ashore and was chased by away by someone trying to video tape the animal.

At 06:15, Mr. Faulkner checked the shoreline and observed two unidentified sharks, one inside and a larger one outside the surf break. Although it was almost three hours later, I relayed the information to Cheryl at the DOCARE Office. DOCARE Officer Ken Bode followed up on the sighting. He was given Mr. Faulkner's telephone number.

Ms. Joanie Morris who volunteers at the Lahaina Aquatic Center was told about the turtle report. I asked her to check the beach for me. During her lunch break, she did not find any tracks. The tide was coming up and could have washed away any tracks left in the sand.

Ms. Glynnis Nakai (Kealia NWR Manager) was informed about the turtle incidents.

On August 22nd, two weeks after the first nest (August 8), a second nest appeared to have been dug by the Park. On August 23rd, a third nest, near the first nest, was observed by volunteers and a right-front flipper tag was identified (see attached email).

The information was communicated to George Balazs who checked the history of turtle (#5690). It was released on 11 September 1981, at the Richardson Ocean Center (Hilo). The turtle was part of a group of hatchlings brought from French Frigate Shoals for a captive rearing project at Sea Life Park.

c: DOCARE - Maui (w/ attachments)

email copies:
Glynnis Nakai (USFWS)
George Balazs (NMFS)

Subject:

Date: Sun, 03 Sep 2000 22:36:00 -1000

From: "howzit@turtles.org" <howzit@turtles.org@swfc2.nmfs.gov>

To: "George Balazs" <gbalazs@s360.swfc2.nmfs.gov>

The first "whitestuffposterior" is that normal white stuff coming out the eye. It actually moves with the current.

The second is Ho'oulu known since 1992. The big oceanliner you gestured at how big she was and is on Linda's page. Check out the eye posterior. From a distance that will look white/gray and we call that throwing white. Even this close we are not prepared to call that a tumour.

But both Peter and I agree that's what she's dealing with. We're calling this FP coming in.

Wait. Decided to show you one more. 20000551teyeforghb.jpg is another example of "throwing white". It means from a distance you can't tell it's a tumour. BUT we're BETTING this little honu's getting FP also. This is NOT normal, it's pathological and a huge hint to expect eye tumours the following year.

And at least for two honu, the tumours developed during the summer (1999).

Normal whitestuff

42

Date: Sun, ~~15 Jul 1995~~ 16:12:48 -1000
From: SKIPPY HAU@EXEC.STATE.HI.US
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Glynnis Nakai <glynnis_nakai@fws.gov>,
Steve Williams <williams@mauigateway.com>, wild@aloha.net
Subject: 9/5/00 Nesting sites

Reduce,
Mau

George,

I met Glynnis this morning at Kealia around 08:30. Jean Johnson first saw turtle tracks at Kealia and left a message at my office. She crawled up twice and left many disturbed areas. She does not appear to have nested and crawled along the fence twice.

I met with Hannah at 1:15 PM and we visited the first possible nesting area and checked the tracks near the 2-mile marker. (This was where the first hawksbill turtle was runover back in 1993.)

Regarding Lahaina nests, according to Hannah, she saw the high tide come just below the nest. I think our tides were about 2-feet maximum. It appears they are in relatively safe locations. In Lahaina, there is some protection by the reef from big swells coming up on the beaches.

Hannah said they would be watching tonight to see if she nests.

Glynnis, Larry Whitford, and I put up a screen on the backside of the first nest next to the Sanctuary. The sand appears to be relatively stable. Sixty days incubation is on September 15. (Nest date is July 18th. Nests will be dated from the time of burial or completion of the nest and not when she starts digging.)

Date: Wed, 6 Sep 2000 07:25:43 -1000
From: Hannah Bernard <wild@aloha.net>
To: SKIPPY HAU@EXEC.STATE.HI.US, Casey Jarman <jarman@aloha.net>,
mangelman@hotmail.com, naupaka24@hotmail.com, srw@hawaii.edu,
riverdolphin30@hotmail.com, gbalazs@honlab.nmfs.hawaii.edu,
glynnis_nakai@mail.fws.gov, williams@mauigateway.com
Subject: Tuesday night turtle, 9/5

An untagged, untransmitted hawksbill came ashore at Kealia near the pond mouth

>George,

>
> I met Glynnis this morning at Kealia around 08:30. Jean Johnson first saw
>turtle tracks at Kealia and left a message at my office. She crawled up twice
>and left many disturbed areas. She does not appear to have nested and crawled
>along the fence twice.

>
> I met with Hannah at 1:15 PM and we visited the first possible nesting area
>and checked the tracks near the 2-mile marker. (This was where the first
>hawksbill turtle was runover back in 1993.)

>
> Regarding Lahaina nests, according to Hannah, she saw the high tide come
>just below the nest. I think our tides were about 2-feet maximum. It appears
>they are in relatively safe locations. In Lahaina, there is some protection by
>the reef from big swells coming up on the beaches.

>
> Hannah said they would be watching tonight to see if she nests.

>
> Glynnis, Larry Whitford, and I put up a screen on the backside of the first
>nest next to the Sanctuary. The sand appears to be relatively stable. Sixty
>days incubation is on September 15. (Nest date is July 18th. Nests will be
>dated from the time of burial or completion of the nest and not when she starts
>digging.)

> Skippy

Hawai'i Wildlife Fund * www.wildhawaii.org
Education * Research * Conservation
P.O. Box 637 * Paia, HI 96779
Phone * (808) 572-7327

Reduce
Mau

----- Forwarded message -----
Date: Sun, 16 Jul 1996 17:15:42 -1000
From: SKIPPY HAU@EXEC.STATE.HI.US
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>,
Glynnis Nakai <glynnis_nakai@fws.gov>,
Steve Williams <williams@mauigateway.com>
Subject: 9/6/00 Nesting sites

*Wasm
Book*

George,

I had a meeting in Kaanapali so I inspected the nests in Lahaina and the tracks at Kealia this afternoon. Attached are photos of nest three and nest two, near the canoe. Nest three is the closest to the water. I met Michelle who watched the turtle make the first nest. She saw the high tide and said it was close but did not appear to reach nest three.

This morning, I talked with Hannah who predicted she would be coming up near the pond outlet similar to the first time she came up twice.

Skippy

Date: Wed, 6 Sep 2000 07:33:10 -1000
From: Hannah Bernard <wild@aloha.net>
To: Steve Williams <williams@mauigateway.com>
Cc: Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>,
Barbara Noel <noel@maui.net>, Bill Gilmartin <jarman@aloha.net>,
Brenda Killian <killian@aloha.net>,
Claire Cappelle <claire.cappelle@noaa.gov>,
Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>,
Dick Kiligian <dickkili@maui.net>,
George Balazs <gbalazs@honlab.nmfs.hawaii.edu>,
Gerald Bitnias <hulabear1@juno.com>,
Glynnis Nakai <glynnis_nakai@mail.fws.gov>,
Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>,
Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>,
Jeff & Jody King <jking@words-and-pictures.com>,
Katie & Diana Lehet <mauikate@aol.com>,
Katy Nicholas <Katynicholas@aol.com>, Marie <zeroimpact@maui.net>,
Pat Ryan <ryan@link.net>, Skippy Hau <skippy_hau@exec.state.hi.us>,
Susan Bradford <gsbl@maui.net>, Victoria Smith <u2vnmaui@aol.com>,
imneb@hotmail.com, lakesun_2001@yahoo.com, dfisher@maui.com,
jowaisj@email.com, jkelton@maui.net, matntif@maui.net,
diana.lehet@attws.com, anselmpauls@hotmail.com, alokahi@tiki.net,
peter@creativity.com, janpryan@excite.com, skyhawk@maui.net,
maryjanegrady@hotmail.com, rtu@gte.net, xseveredsilencex@aol.com,
johnalgarme@hotmail.com, lakesun_2001@yahoo.com
Subject: Re: Tracks at Kealia

Last night, Tuesday, 9/5, HWF nestwatchers led by Allan Ligon, observed through

>Turtle tracks were reported this morning (9/5/) by Jean Johnson. There
>were two sets of tracks found between the pond outlet parking area and
>the two mile marker. Both sets of tracks came right up to the fence and
>it looks like the fence kept the turtle away from the road again. (I
>thank you fence menders). There was no apparent nest site and it is
>presumed that these were both " false crawls" . We can assume she may
>return tonight for another try. Very likely this is the same turtle (I
>probably a hawksbill) that came up August 18 and 19. there may be more
>to report tomorrow.

Steve

Hawai'i Wildlife Fund * www.wildhawaii.org
Education * Research * Conservation
P.O. Box 637 * Paia, HI 96779
Phone * (808) 572-7327

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Date: Thu, 07 Sep 2000 20:46:04 -1000
 From: Steve Williams <williams@mauigateway.com>
 To: Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>, Barbara Noel <noel@maui.net>, Bill Gilmartin <jarman@aloha.net>, Brenda Killian <killian@aloha.net>, Claire Cappelle <claire.cappelle@noaa.gov>, Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>, Dick Kiligian <dickkili@maui.net>, George Balazs <gbalazs@honlab.nmfs.hawaii.edu>, Gerald Bitnias <hulabear1@juno.com>, Glynnis Nakai <glynnis.nakai@mail.fws.gov>, Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>, Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>, Jeff & Jody King <jking@words-and-pictures.com>, Katie & Diana Lehet <mauikate@aol.com>, Katy Nicholas <Katynicholas@aol.com>, Marie <zeroimpact@maui.net>, Pat Ryan <ryan@t-link.net>, Skippy Hau <skippy_hau@exec.state.hi.us>, Susan Bradford <gsbl@maui.net>, Victoria Smith <u2vnmaui@aol.com>
 Subject: Turtle tracks

There were fresh tracks in the same area north of the pond outlet today. The tracks were reported by Patrick Ryan who has ben with the dawn patrol from the beginning. It's been a few years since he has found tracks and he was happy.

I was able to look at the area with Skippy and we saw at least one possible nest site. If she doesn't return we may assume she nested last night. The beach will be carefully checked tomorrow.

There are still visible tracks (in fact since she crawled all over the same area two nights in a row it looks like a congo line of hawksbills has been practicing the macarena out there) A good chance to see what tracks are like on the beach and through the vegetation. If you do go out there , please be careful where you step.

Date: Fri, 08 Sep 2000 21:59:49 -1000
 From: Steve Williams <williams@mauigateway.com>
 To: Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>, Barbara Noel <noel@maui.net>, Bill Gilmartin <jarman@aloha.net>, Brenda Killian <killian@aloha.net>, Claire Cappelle <claire.cappelle@noaa.gov>, Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>, Dick Kiligian <dickkili@maui.net>, George Balazs <gbalazs@honlab.nmfs.hawaii.edu>, Gerald Bitnias <hulabear1@juno.com>, Glynnis Nakai <glynnis.nakai@mail.fws.gov>, Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>, Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>, Jeff & Jody King <jking@words-and-pictures.com>, Katie & Diana Lehet <mauikate@aol.com>, Katy Nicholas <Katynicholas@aol.com>, Marie <zeroimpact@maui.net>, Pat Ryan <ryan@t-link.net>, Skippy Hau <skippy_hau@exec.state.hi.us>, Susan Bradford <gsbl@maui.net>, Victoria Smith <u2vnmaui@aol.com>
 Subject: turtle tracks

Whew,.. she finally nested. On the fourth night of successive nest crawls the hawksbill at Kealia has made a nest, Friday Sept. 8, witnessed by observers from HWF. The site is between the pond outlet and the parking area, near the base of the primary beach dune. by my count this is 20 days from her last nesting crawl on 8/19.

Meanwhile a turtle in Lahaina was reported on the beach last night also, she could be ready to make her next nest soon.
 And you thought this was going to be a dull turtle season.....?

This is a good time to thank you for your patient effort. Thank you for being diligent and consistent even when tracks are not found and thank you for being professional and careful when tracks are discovered. The dedication and care of each of you is what makes this program a success. Mahalo

We find ourselves in September with still a lot left to do. Keep up the good work.

Date: Mon, 11 Sep 2000 22:20:12 HST
From: mary jane grady <maryjanegrady@hotmail.com>
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Lahaina update

Aloha

Here is a summary of the times of "false crawls" and nesting observed in Lahaina.

"false crawls"

Location: near other nests from 8/7 and 8/23
Thursday 9/7

MAUI

9:55 p.m. - 10:25 p.m. - dug lightly on top of 8/7 nest
10:50 p.m. - 10:52 p.m. - stayed in surf zone

Friday 9/8

12:00 a.m - 12:30 a.m. - dug in two spots
tracks just above surf zone found at 6:00 a.m.
tracks found at 8:15 p.m. - up to plants and back
9:57 p.m. - 10:02 p.m. - quick return to surf zone
10:47 p.m. - 11:17 p.m. - dug next to 8/7 nest

Location: park near 505 - just north of nest? from 8/22
Friday 9/8

9:37 p.m. - 9:47 p.m. - stayed in wet sand
Saturday 9/9
12:05 a.m. - quick return to surf zone

Observers of various false crawls: Imme Brueshaber, Mary Jane Grady, Amy Miller, and Ted Grupenhoff

Nesting occurred on Saturday 9/9

Turtle #5690 (observed tag - very secure, did not read number again)
12:57 a.m. - turtle emerged from water
1:07 a.m. - began digging between previous nests on 8/7 and 8/23
presume that somewhere between 2:20 a.m. and 3:00 a.m. eggs were laid. Behavior was more subtle than 8/23 covered nest from 3:00 a.m. - 4:30 a.m.

Observers of the nesting were Imme Brueshaber and Mary Jane Grady

Date: Mon, 11 Sep 2000 16:09:53 -0700
From: Peter Dutton <peterd@caliban.ucsd.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: HO'OMALU-results just in!

I just analyzed the sequence for this animal. Quite clear results:

This animal has mtDNA from Mexican nesting stock, e.g. mother was a Mexican turtle with the common mtDNA haplotype from Mexican nesting stock. It still does not rule out the possibility that her father was a Hawaiian Honu (e.g. that she was a hybrid). I will be able to tell that from the nuclear markers (eventually). I have been developing the microsatellite markers and now have the samples from rookeries to pursue the nuclear marker project, but this is a much more involved endeavour and part of a bigger project to map out nuclear markers for Pacific greens, won't have the database put together to address this for a few months.

-Peter

46

Date: Mon, 18 Sep 2000 09:26:15 -1000
From: Casey Jarman <jarman@aloha.net>
To: George Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: status?!

[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]

MAUI

I'll be off to maui, probably near the weekend to try to catch up to the hawksbill at Kealia site and attach a radio tag.

I will hope the Kawa hawksbill returns for a 5th nest, early Oct and get a radio tag on her, though having some concerns there, since likely she will leave after that nesting, not giving us her interesting site, then of course little chance of finding her at foraging area, with only the radio tag. -- could be a waste of a radio tag.

Any developments at Halawa while I was gone? -- still holding the sat. tag for that one?...or maybe consider it for a hawksbill at Kealia or Kawa???

---other on hawksbills(?)....Raymond (Punaluu resident) told me a while back that on Oahu in some earlier month he was at Campbell Indus Park area (s of the tourist luau facilities - Kapolei) and saw hawksbill turtles in a drainage canal. He says he was "certain" they were E.i.'s. Well, I have my doubts, but are you familiar with the site?

later, Bill

Date: Sun, 03 Jul 1945 16:42:52 -1000
From: SKIPPY HAU@EXEC.STATE.HI.US
To: gbalazs@honlab.nmfs.hawaii.edu, smurakaw@honlab.nmfs.hawaii.edu
Cc: glynnis_nakai@fws.gov
Subject: 8/24/00 Nesting Turtle Tag Number

George & Shawn,

I just talked with Hannah and the volunteer who watched the nesting last night. The tag number is 5690. She said it is about 20 feet away from the first nest. It started nesting around 09:40 PM and took about three hours.

Hannah said she would be looking at the location of the second nest by the park. Steve gave you a description yesterday.

Could you please give us a history of this turtle. I'm sure there is a heightened awareness on these beaches.

Very exciting. We will be diving at Molokini next Monday.

Hope the frozen turtles come over o.k. The turtle was bigger than the plywood box. It is similar to the one Brooks and I dragged from Little Beach in Makena several years ago...

Aloha,
Skippy

4
Date: Sat, 26 Aug 2000 15:30:03 -1000 (HST)
From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
To: Hannah Bernard <wild@aloha.net>
Cc: Mary Jane Grady <maryjanegrady@hotmail.com>,
BillGilmartin <jarman@aloha.net>, williams@mauigateway.com,
glynnis_nakai@mail.fws.gov, skippy_hau@exec.state.hi.us
Subject: Re: LAST NIGHT'S NESTING...Turtle Nesting on The 23rd of Aug. 2000

Aloha, I've just had a very nice and productive phone conversation with Mary Jane whom I previously met and worked with at Kamehame last month for a few nights. Thanks to Bill bringing her down when we were there. I called to learn MJ's level of certainty with the tag number and am now convinced it was read accurately with great confidence.

This is one of those amazing tag recoveries that one always hopes for after a few to three decades of sticking with turtle tagging! An overview of the details are as follows:

In 1980 NMFS Bill and I brought about 230 hatchlings to Honolulu from FFS for a year of captive rearing contracted to Sea Life Park. The purpose was to test the "living tag" method of marking hatchlings by doing small auto-grafts belly to back, and back to belly. After a year and the completion of the study, there were about 175 surviving turtles to be liquidated/released. All were tagged with Inconel 681 tags having the standard "HIMB Univ Hawaii" address. 25 here taken by Balazs via USCG C130 on 9/11/81 to Hilo where, at 1230pm, I let them go at Richardson Ocean Center. Turtle 5690 was one of them, it measured 22cm SCL and weighed about 6 lbs. The "living tag" in this particular turtle (as with about 20% of them) had worked. That's essentially the end of the story, 5690 has never been seen again (or at least reported to us) until now.

Great story, isn't it? And especially since I saw her first (?) nest site at 505 with Glynnis on 13 August, at which time Glynnis presented me with a photo of the turtle. I thought I recognized her at the time, but wasn't quite sure when and where ;} Congratulations to Mary Jane for being an astute observer and recorder. More later, This story is a continuing one and there is more to unfold.

Since there are multiple folks from two groups that would like to hear this history, I'd like to have the opportunity to do that via email, let me know if that's ok with you-all.

Aloha, George

On Thu, 24 Aug 2000, Hannah Bernard wrote:

> A summary will be submitted by the other nestwatch volunteer, Mary Jane, sometime tomorrow, please do not forward this one.

>
> >X-Originating-IP: [216.202.5.251]
> >From: "imme brueshaber" <immeb@hotmail.com>
> >To: wild@aloha.net
> >Subject: Turtle Nesting on The 23rd of Aug. 2000
> >Date: Thu, 24 Aug 2000 21:31:26 GMT
> >Mime-Version: 1.0
> >X-OriginalArrivalTime: 24 Aug 2000 21:31:26.0319 (UTC) FILETIME=[A85C37F0:01C00E12]
> >

> >Dear Hannah,
> >here quickly the facts,
> >
> >Place: 505 Front Street, Lahaina HI
> >right in front of Beach Access
> >
> >Date> 23rd Aug 2000
> >Time:
> >come up around 9:30 (approx.)
> >sighted her at 9:40
> >Diggin the Hole till about 10:40
> >Nesting for about 10-20 min.
> >Closing the Hole till 12:40

(49)

> >Going back to the ocean.
> >
> >Tag Number 5690
> >Green Sea Turtle
> >Big one!!!! Maybe about 200 pds.... (maybe...smile)
> >
> >All you need???
> >Need more?
> >Let me know..
> >Very healthy looking, no tumors or anything, no cut of flippers...
> >
> >See you today anyways.
> >
> >Please could you tell me more about the history of this turtle in
> >particular?
> >Maybe your friend who tagged her knows and could send us some information??
> >
> >Or to much haste...
> >if so forget about it.
> >I am just curious.
> >
> >Aloha,
> >Imme
> >
> >
> >
> >
> >
> >
> >
> >Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>
> >
> >
> >
> >Hawai'i Wildlife Fund * www.wildhawaii.org
> >Education * Research * Conservation
> >P.O. Box 637 * Paia, HI 96779
> >Phone * (808) 572-7327
> >

Date: Sun, 24 Sep 2000 10:35:43 -1000
From: Steve Williams <williams@mauigateway.com>
To: Allan Ligon <aligon@aol.com>, Angela Plummer <ajplum@aloha.net>,
Barbara Noel <noel@maui.net>, Bill Gilmartin <jarman@aloha.net>,
Brenda Killian <killian@aloha.net>,
Claire Cappelle <claire.cappelle@noaa.gov>,
Diana Lehet <diana.lehet@attws.com>,
Diana Schulte <mdd@mauigateway.com>, Diane Nelson <rrnelson@gte.net>,
Dick Kiligian <dickkili@maui.net>,
Gene Thompson <genejack@mauigateway.com>,
George Balazs <gbalazs@honlab.nmfs.hawaii.edu>,
Gerald Bitnias <hulabear1@juno.com>,
Glynnis Nakai <glynnis_nakai@mail.fws.gov>,
Hannah Bernard <wild@aloha.net>, Jackie Frost <honu@shaka.com>,
Janet Cowan <rcowan@maui.net>, Jean Johnson <dugong@tiki.net>,
Jeff & Jody King <jking@words-and-pictures.com>,
Katie & Diana Lehet <mauikate@aol.com>,
Katy Nicholas <Katynicholas@aol.com>, Marie <zeroimpact@maui.net>,
Pat Ryan <ryan@t-link.net>, Susan Bradford <gsbl@maui.net>,
Victoria Smith <u2vnmaui@aol.com>
Subject: Turtle tracks

Last night (actually early this A.M. Sept . 24) Hawaii Wildlife Fund researchers observed the nesting of a hawksbill turtle at Kealia near mile marker 2 (east of the pond outlet) and placed a radio transmitter on her after the nest was complete.

Assuming one turtle nesting this season the interval between nests is 16 days this time compared with 20 days last time. Also she was more decisive this time, nesting on the first night up. Last time there were tracks on four successive days (sept. 5,6,7,8)

Although the scenario of one turtle is most likely we (the beach patrol) should watch very carefully for tracks over the next several days just in case more than one turtle is involved.

1996/1997

52

CAPTURE DATE, LOCATION AND METHOD:

MOC 9/25/00

PERSON RECORDING DATA:

NEW TAGS: RFL LFL
424F071C00

TUMOR SCORE: 0
NEW TAGS: RH
424325436A

STRAIGHT CARAPACE-LENGTH: 55.8 WIDTH: 45.8
NOTCH LENGTH: 55.4 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 60.0 WIDTH: 54.0

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

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

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

PLASTRON LENGTH: []
WEIGHT: []

DESCRIPTIVE REMARKS:
eye 1-2 slide photos
right eye 1-5 digit / photos eyes
left eye 1-2 Moto tooc (#11)
1 in / 1 pic small (1 pic) in plastron

CAPTURE DATE, LOCATION AND METHOD:

9/25/00 MOC capture

PERSON RECORDING DATA:

OLD TAGS: []
NEW TAGS: LH
423A446D01

TUMOR SCORE: 0
OTHER NEW TAGS: RH
424D552D43

STRAIGHT CARAPACE-LENGTH: 61.4 WIDTH: 58.5
NOTCH LENGTH: 60.9 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 66.5 WIDTH: 61.0

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

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

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

PLASTRON LENGTH: []
WEIGHT: []

DESCRIPTIVE REMARKS:
3-4 slide
2 focal views photo tooc
1 in / 1 pic small (1 pic) in plastron

CAPTURE DATE, LOCATION AND METHOD: *9/25/89*

PERSON RECORDING DATA:

OLD TAGS: NEW TAG: **423E0F3254**
TUMOR SCORE: OTHER NEW TAG: **424E582C3C**

STRAIGHT CARAPACE-LENGTH: **60.3** WIDTH: **46.2**
NOTCH LENGTH: **59.9** DB: **L.O.** VB: **L.C.**
CURVED CARAPACE LENGTH: **65.0** WIDTH: **55.0**

HEAD WIDTH: **Comments** SEX: **Comments** MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE **WT = 81.6g**

TAIL LENGTH: **T** C
RIGHT FRONT FLIPPER WIDTH: **62.7mm** SAMPLES COLLECTED:
PLASTRON LENGTH:
WEIGHT:

DESCRIPTIVE REMARKS: **2 ecdysis 35mm**
2 x 2
clean water
MT #3

CAPTURE DATE, LOCATION AND METHOD: *9/25/89*

PERSON RECORDING DATA:

OLD TAGS: NEW TAG: **424E441F61**
TUMOR SCORE: OTHER NEW TAG: **42505B414D**

STRAIGHT CARAPACE-LENGTH: **60.5** WIDTH: **46.9**
NOTCH LENGTH: **60.2** DB: **L.O.** VB: **L.C.**
CURVED CARAPACE LENGTH: **65.0** WIDTH: **57.0**

HEAD WIDTH: **Comments** SEX: **Comments** MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE **WT = 59.1g**

TAIL LENGTH: **T**
RIGHT FRONT FLIPPER WIDTH: **62.7mm** SAMPLES COLLECTED:
PLASTRON LENGTH:
WEIGHT:

DESCRIPTIVE REMARKS: **fresh photo 89 35mm**
MT #4
4 very small pimples

3

54

CAPTURE DATE, LOCATION AND METHOD:

9/25/09 MOC Center Captive

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: LH 424D6C1774
TUMOR SCORE: 0 OTHER NEW TAGS: RH 424E684142

STRAIGHT CARAPACE-LENGTH: 68.7 WIDTH: 50.9
NOTCH LENGTH: 67.7 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 73.0 WIDTH: 60.0

HEAD WIDTH: 60.0
PPS: YES OR NO OR NE 88/65
TAIL LENGTH: T

RIGHT FRONT FLIPPER WIDTH: 79.5
PLASTRON LENGTH: 79.5

WEIGHT: 627.00g
DESCRIPTIVE REMARKS: New mark #5
New mark #15
New mark #14

CAPTURE DATE, LOCATION AND METHOD:

9/25/09 MOC Center Captive

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: LH 424B3B1103
TUMOR SCORE: 0 OTHER NEW TAGS: RH 42505C5556

STRAIGHT CARAPACE-LENGTH: 62.7 WIDTH: 48.2
NOTCH LENGTH: 62.5 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 67.5 WIDTH: 56.0

HEAD WIDTH: 56.0
PPS: YES OR NO OR NE
TAIL LENGTH: T

RIGHT FRONT FLIPPER WIDTH: 67.5
PLASTRON LENGTH: 67.5

WEIGHT: 627.00g
DESCRIPTIVE REMARKS: 2-4 red punctate spots
New mark #6

(56)

Downa
Hop #
669-6584

- Tools -

Needs

- Animal Carrier
- AAA batteries for pagers ✓
- Safety chains for pagers
- write Downa # office on paper
- TAPES (to carry ^{TURTLES}) ✓
- Plastic bags ✓
- pictures taped into log book
- camera ✓
- underpads ✓
- More ^{PAPER} Toys
- map ^{Map} book
- Gray tray ✓
- fishnet guidelines
- wide ^{packing} paper ✓
- stretcher
- scissors ✓
- Business Cards ✓

A. Ligon Report to ^{SKIPPY} Glynis

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