

TAG SERIES

Date: Wed, 09 Oct 2002 10:42:19 -0700
From: Robin Leroux <Robin.Leroux@noaa.gov>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Peter Dutton <peter.dutton@noaa.gov>, DeniseM Parker <Denise.Parker@noaa.gov>
Subject: Re: IMPORTANT REQUEST- Tag series for Inconel tags Peter has bought for SWFSC LaJolla

Hi George

Here's what we've ordered over the last two years:

N, P, R, X, G, J, K, L, B, all are 000 thru 999

This year we switched to double letters because we had exhausted the single letter. We chose L as the first letter for "La Jolla":

LA, LB, LC, LD, LE, LH, LJ, LK, LL, LM, LN, LO, LP, LR, LS, all are 000 thru 999

We also skipped letters that would be easily mistaken ie: F, I, Q

Let me know if you have any questions.

Robin

----- Original Message -----

From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Date: Wednesday, October 9, 2002 10:12 am
Subject: IMPORTANT REQUEST- Tag series for Inconel tags Peter has bought for SWFSC LaJolla

>
> I'm writing with the hope of a quick answer about the tags you've
> ordered there- specifically the tag numbers for the Inconel tags that
> have an alphabet SUFFIX. A year or more ago Peter ask my
> consultation in
> what alphabet letter to use for suffixes. I supplied a few. Can you
> please confirm for me what they were, which ones are actually ordered?
>
>
>

Date: Thu, 24 May 2001 07:56:32 -0700
From: Peter Dutton <Peter.Dutton@noaa.gov>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: SUFFIXES

I agree, no "O" or "Q", I've had the same experience in the past (Caribbean).

I'll let you know what I finally order, but I'll "reserve" what you suggested: G, I, J, K and L, and perhaps use "B" before "I" since I also has potential confusion with 1.

thanks for the info!

-Peter

"George H. Balazs" wrote:

>
> I did miss something- that is, also available for suffixes are:
>
> B and F.
>
> And NOTE, I don't recommend using O or Q, too confusing (O and zero) and
> the Q they stamp looks too much like an O. I used Q as a prefix years
> ago, but wish I wouldn't have.

> -----
> On Wed, 23 May 2001, George H. Balazs wrote:

>
>
> > I'm terrible for taking this long, but sometimes my life is this way.
> > Note MORE suffixes were used have been used than was on that 8/97 PO. I
> > should have told you that, maybe I did, but it's ok let's move ahead
> > from here. Suffixes I've used:

> > C, E, Z, D, T, A, S, M, X, H (H= 9/2000 order) and N. Actually I'm not
> > certain at all about "N" the only reason I list it is because I have a
> > fax I sent to you 9/2/99 saying order me (since you offered) O-N thru
> > 999-N. But I can't find any N suffix tags in my office and in my
> > outgoing tag log. I SUSPECT we subsequently changed that, and you order
> > me the X suffix instead (and you used the N suffix for yours, as your
> > list says). Any memory of that?

> > So what's left. Quite a few. How about if you take G, I, J, K and L.
> > I'll reserve for future orders (unless you need more) U, V, W, Y.

> > Have I missed something? Made a mistake? Please double check. Aloha,
> > 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 *

Date: Thu, 17 May 2001 15:50:07 -0700
From: Peter Dutton <Peter.Dutton@noaa.gov>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: tag order

I'm just trying to figure out what numbers you have used for your tags in the past so I can place an order for new tags for myself with LaJolla address and avoid duplicating any of your previous numbers. I have a partial list of numbers you have used, and I know all the numbers I have used (e.g. the list below).

That list I put together from the following: I ordered and sent you 1000 tags with HIMB address a couple years ago (0-X THRU 999-X).

i HAVE A COPY OF A po 8/1/97 YOU SENT ME WITH TAGS YOU ordered for yourself:

0-A THRU 999-A
....THRU 999-S
....THRU 999-M

ME + 999-X + 0-H Thru 999-H

And I ordered a bunch of tags for myself with series:

0-N THRU 999-N
....THRU 999-P
....THRU 999-R

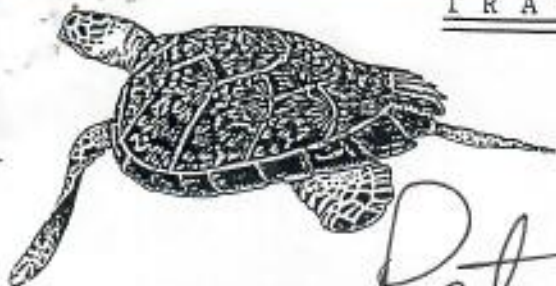
Dutton La Jolla Address

I know you have used many more tags than that, and would just like to know what other letter suffixes you have already used, so I can choose ones (if any) that have not been used yet to place my new order.

thanks_peter

"George H. Balazs" wrote:

>
> I'm still totally confused- This is what you have? Have what? With my
> address, or with yours? I've never known to my knowledge what you've
> used with your address. Please break out below which has your address,
> which one you ordered for me (which 1000 with what suffixe). You have
> the PO to NBT, I wouldn't have a copy of that.
>
> Are you aware of Scott being appointed to Council's SSC committee? He's
> here now, been giving presentation to Council, resurrecting Recovery
> Team, seeking money for W. Pacific Dc. Major push.
>
> On Thu, 17 May 2001, Peter Dutton wrote:
>
>> I ordered 3000 tags a couple years ago with LaJolla address, and got you
>> 1000 with HIMB address. I consulted you on the suffixes you had
>> previously used and chose new ones. The list below includes the ones I
>> ordered and one from one of your previous orders, so I need to know what
>> other suffixes you've used from years prior to September 1997, so I don't
>> duplicate.
>>
>> thanks-Peter
>>
>>> On Thu, 17 May 2001, Peter Dutton wrote:



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center Honolulu Laboratory
2570 Dole St. • Honolulu, Hawaii 96822-2396

Commercial: (808) 983-5733
Telefax: (808) 983-2902

TELEFAX FOR:

Peter Dutton

DATE:

9/2/99

FROM:

George Bakas

TELEPHONE EXT:

808 983-5733

NUMBER OF SHEETS TRANSMITTED (including this page)

for me -

3

MESSAGE:

*O-N thru 999-N
w/UNIV. Hawaii Address*

Peter -

*As promised,
call me if you
have questions,
Jim*

*If you do 1000 for
we there start instructions
TAG - # ON the
need to be followed 999-N*



Date: Wed, 09 Oct 2002 12:40:50 -0700
From: Peter Dutton <Peter.Dutton@noaa.gov>
To: Robin Leroux <Robin.Leroux@noaa.gov>
Cc: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>,
Denise Parker <Denise.Parker@noaa.gov>
Subject: Re: IMPORTANT REQUEST- Tag series for Inconel tags Peter has
boughtforSWFSC LaJolla

OK-go with what Robin says, ignore my last email...my memory is
obviously unreliable, and I'll stay quiet...George should be able to
confirm that he received N suffix tags with HIMB address.

Robin Leroux wrote:

>
> According to an old fax sent to Peter the N series had the HI return
> address. N, P, R and X were placed on the same order with 3 having the
> La Jolla address and 1 having the HI address. Since we have the fax
> indicating that N has the HI address we can assume X had the La Jolla
> address. I'm pretty sure X did have La Jolla since we used some of
> them in SD Bay.

> Robin

> ----- Original Message -----

> From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
> Date: Wednesday, October 9, 2002 12:04 pm
> Subject: Re: IMPORTANT REQUEST- Tag series for Inconel tags Peter has
> boughtforSWFSC LaJolla

> > Mahalo Denise. How and when can I get the info for the X and N suffix
> > tags, that is whether they are from me with the inscription

> > WRITE HIMB
> > UNIVERSITY
> > HAWAII 96743

> > or, have the La Jolla or some other inscription.

> > On Wed, 9 Oct 2002, Denise Parker wrote:

> > > The M suffix have the HIMB address on them.

> > > The B suffix are tags for Chile and have the Chilean Address on
> > them as

> > > follows:

> > > IFOP
> > > VALPARISO
> > > CHILE

> > > The other single letter suffixes (G, I, J, K, P, R) had a La Jolla
> > > address as follows:

> > > WRITE TO
> > > BOX 271
> > > CA 92038 USA

> > > the new double prefix tags have the new La Jolla address as
> > follows-

See web site

(G, I, J, K, P, R)

> > > NOAA, NMFS
> > > 8604 LJ SHORES
> > > CA 92037 USA

> > > I don't have the information for the X and N suffixes.

> > > "George H. Balazs" wrote:

> > > > This information can only make sense to me and be helpful in
> > sorting out
> > > the potential problems (and embarassment) here if I know the
> > Address on
> > > the tags that you (Roben and Denise) referred to in each of your
> > > messages. Mahalo, George

> > > On Wed, 9 Oct 2002, Denise Parker wrote:

> > > > Just an addendum to Robin's list - The tags series suffix
> > used was
> > > acutally I not L, and we also have a few M suffix tags in
> > the back room
> > > not sure if these were bought or given to Peter from George
> > as only
> > > 755-775-M, 790-799-M are left.

> > > > "George H. Balazs" wrote:

> > > > > Thanks Robin. The only thing is it would have been very
> > nice for our two
> > > > program components to have coordinated the fact you
> > started ordering two
> > > > alphabet prefixes, that's unknown to me until I read your
> > email just
> > > > now.

> > > > > Also, can I confirm that each of the single suffixes below
> > have the
> > > > LaJolla address and what exactly is that address as it
> > appears on your
> > > > tags?

> > > > > Aloha, George

> > > > > On Wed, 9 Oct 2002, Robin Leroux wrote:

> > > > > > Hi George,

> > > > > > Here's what we've ordered over the last two years:

> > > > > > N, P, R, X, G, J, K, L, B, all are 000 thru 999

> > > > > > This year we switched to double letters because we had
> > exhausted the

> > > > > > single letter. We chose L as the first letter for "La
> > Jolla":> > > >

> > > > > > LA, LB, LC, LD, LE, LH, LJ, LK, LL, LM, LN, LO, LP, LR,
> > LS, all are 000

> > > > > > thru 999

> > > > > >

> > > > > > We also skipped letters that would be easily mistaken
> > ie: F, I, Q

> > > > > > Let me know if you have any questions.

> > > > > > Robin

> > > > > > ----- Original Message -----

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

> > > > > > Date: Wednesday, October 9, 2002 10:12 am

> > > > > > Subject: IMPORTANT REQUEST- Tag series for Inconel tags

> > Peter has

> > > > > > bought for SWFSC LaJolla

> > > > > > I'm writing with the hope of a quick answer about the
> > tags you've

> > > > > > ordered there- specifically the tag numbers for the
> > Inconel tags that

> > > > > > have an alphabet SUFFIX. A year or more ago Peter ask my
> > > > > > consultation in

> > > > > > what alphabet letter to use for suffixes. I supplied a
> > few. Can you

> > > > > > please confirm for me what they were, which ones ere
> > actually ordered?

--
Peter H. Dutton, Ph.D.
Southwest Fisheries Science Center
NOAA-National Marine Fisheries Service
8604 La Jolla Shores Drive
La Jolla, CA 92038

Tel: (858) 546-5636

FAX: (858) 546-7003

Date: Fri, 11 Oct 2002 08:35:35 -0700
From: Robin Leroux <Robin.Leroux@noaa.gov>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Peter Dutton <peter.dutton@noaa.gov>
Subject: Re: Tag series

Yes, we did order the B series. They have a return address in Chile. Also, in the new series LO, LP, LR, and LS have a return address in the Galapagos.

Chile:
IFOP
VALPARISO
CHILE

Galapagos:
ECCD GALAPAGOS
BOX 17013891
QUITO ECUADOR

Let me know if you need anything else.

Robin

----- Original Message -----

From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Date: Thursday, October 10, 2002 8:47 pm
Subject: Re: Tag series

>
>
> *****
> On Thu, 10 Oct 2002, George H. Balazs wrote:
>
> >
> > ok I think I'm getting there in sorting it out (once and for all
> for me,
> > I hope). In a message 5/24 I wrote and told you to use G, I, J,
> K and L
> > as suffixes if you would like. I didn't say anything about "B"
> but i
> > see in Robin's message you ordered B as a suffix with LaJolla
> address.> Can you confirm that? Fortunately I haven't ordered B
> suffix. But I
> > could have.
> > Just check to see if you do have B suffix then I can proceed to
> prepare> a submssion to ACCSTR, but of course pass it by you
> first. Mahalo, Geo.
> >
> >
>
>

As of Aug 91

NATASHA
Bontly

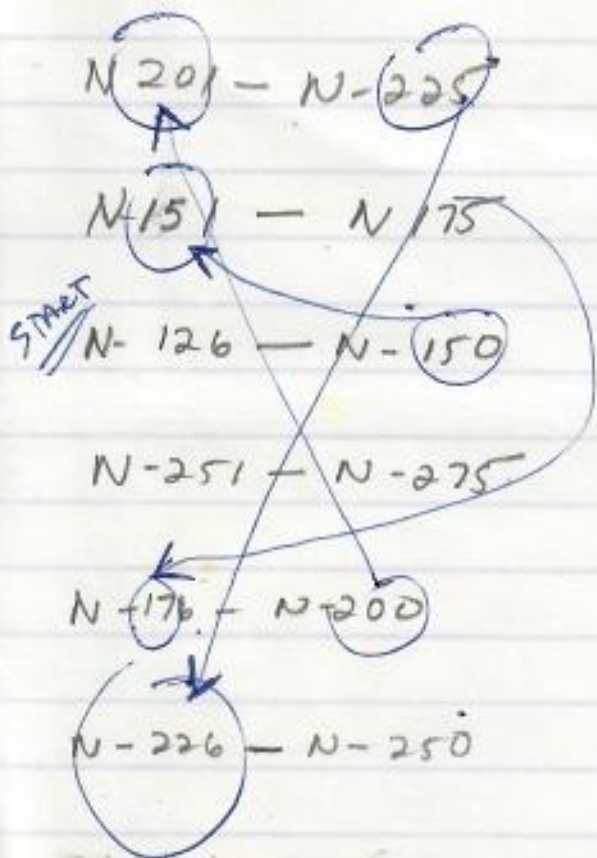
IN Stock - Am. Samoa

No good - N-110.

Good Tag #s

N-121

N-123.



Not to include any of dippers

G. Witham Telecom
6/26/91

CL-14"

on 4/12/89 He tagged a small

olive ridley

8859 R

8860 L

brought from Calif.

He released it into Fagatele Bay
American Samoa

BAHAMAS
Atlantis Turtle Records

Lt. Front Flipper	Rt. Front Flipper	Species & Sex	Date
43-Z	44-Z	CM F	8/2/00
47-Z	46-Z	CM	1/5/00
49-Z	48-Z	CM	1/5/00
51-Z	50-Z	CM	1/5/00
53-Z	52-Z	CM	1/5/00
55-Z	54-Z	CM M	1/5/00
57-Z	56-Z	CM	1/5/00
59-Z	58-Z	CM	1/5/00
61-Z	60-Z	CM	1/5/00

St. /Curved Carapace length	Health
- 42 inches	
34.8 & 37.5 inches	
30 & 31.5 inches	
30.3 & 31.5 inches	
29 & 30.5 inches	
31.5 & 34 inches	
30.6 & 32.25 inches	
27 & 28 inches	
26.5 & 27.5 inches	

Date: 5/5/00 6:42 PM
Sender: gbalazs@honlab.nmfs.hawaii.edu
To: George Balazs
Priority: Normal
Subject: FW: Turtle tagging (fwd)

* 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 *

IN TANTS?

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

Date: Fri, 5 May 2000 14:50:42 -0400
From: Steve.Kaiser@sunint.com
To: "'George H. Balazs'" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: FW: Turtle tagging

A few more turtles for you. We finally found a male and he is humping the lot bejesus of the females

> <<Turtle.xls>>
>
>



Turtle.xls

1986

~~Gene~~ Gene

2/26/86 Witham 15001-15004 (4)

8853-8856 (4)

fol

2/24/86 Wong 15005-15008 (4)

8857-8860 (4)

Richard

3/7/86 WASS 15009-15014

Fourth 3/13/86 651-9750 FFS + 2 phis

7/4/86 6935-6950 (15) time

4/15/86 8669-8750 (57) LISIENSKI

6813-6850 (38) LAYSON

SHERIDAN

4/23 Stone 15015-15018 (4)

8872-8875 (4)



WESTERN AUSTRALIAN MARINE TURTLE PROJECT

c/- Dr R I T PRINCE • WILDLIFE RESEARCH CENTRE

PO BOX 51 • WANNEROO • WESTERN AUSTRALIA • 6065

TELEPHONE (09) 405 5115 • FAX (09) 306 1641

George Balazs,
NOAA, NMFS,
Southwest Fisheries Science Centre
Honolulu Laboratory,
2570 Dole Street, Honolulu,
HAWAII 96822-2396, USA

Dear George,

Received your note of 16 March 1995 today.

As noted in my previous letter of 27 July 1994, I used some of your tags to retag small juvenile loggerheads being held in captivity for continuing growth and development study - outdoor environment, Perth, WA coastal waters, held in sea-cage, and being hand fed.

These young turtles were originally tagged for individual identity when in the body weight range from 500 - 800 g at 1⁺ age using small tags as per Jim Wood at Cayman Turtle Farm. Turtles in captivity started losing these small tags through 1994 (from 3⁺ age). We had previously released other small tagged turtles from the 1⁺ group to sea.

My turtles were open to public access, but needed retagging to retain future individual identification after loss of the small tags. I thought use of your smaller tags in preference to the full size (equiv. #49) ones I normally use on much larger juvenile and adult turtles at sea would be more publicly acceptable for this purpose. The possibility of further tag shedding could also be documented.

I personally fixed tags to some of the turtles. Tags for others were applied by the students I mentioned in my previous letter. This job was done on 12 June 1994. At this time, individual turtles body weight ranged from 3 980 - 6 480 g. Straight carapace lengths were 267 - 309 mm. All turtles were double-tagged.

At last weighing and measurement (15 February 1995) the turtles in this group had grown to weights from 6 220 - 10 100 g. Straight carapaces 320 - 361 mm.

Only three of the original small 'Cayman' tags were still attached to captive turtles at 15 February 1995. Two of your

tags applied on 12 June 1994 were also lost over summer to this date.

As the turtles are growing fairly rapidly over this current late summer period, I expect that we will observe further tag loss at next examination (have had to delay this from last week as programmed).

I have attached a list from my data-base of original use and last observed status of your tags on my captive turtles. I will keep you posted on further progress of observations.

Please ask for any additional information you might want. I expect that we will write up results of this work later.

Kind regards,
Yours sincerely,

A handwritten signature in blue ink that reads "Bob". The signature is written in a cursive style with a long, sweeping underline that extends to the right.

Dr R I T Prince
Senior Research Scientist
Project Supervisor
29 March 1995.

PS: Did you attend 15th Symposium? I am presently trying to resurrect my project work. Bob.

Att:

EARTH 2000

At Risk

WA marine turtle researchers hit snag as money runs out

A REGIONAL marine turtle research project has been cut back because of a lack of funds, according to the head of the project Bob Prince.

The West Australian Marine Turtle Project was set up in 1986 by the Department of Conservation and Land Management, with support from the Australian Nature Conservation Agency, to document and start monitoring sea turtle populations along the northwest Australian coast.

International scientists suspected the turtles, protected in WA since the early 1970s, could be threatened but local research was needed to confirm whether hunting by other countries was reducing populations of the highly migratory reptile.

Last week Dr Prince said a lack of funding was making it difficult to keep the project going but he hoped the setback would be only temporary.

"We have hit a brick wall," he

said. "The money devoted to long-term marine conservation research throughout the nation is possibly much less than needed."

But he thought formal acceptance of a management scheme such as a joint corporate, public and CALM partnership — successful to date — could make the project more viable.

Dr Prince said site studies into sea turtle populations should last at least 10 years because of the time turtles took to mature and their erratic breeding cycles.

The project was far from complete after nine years. "At this point, we know where the major breeding locations are but we still cannot say for sure what is happening to regional stocks of sea turtles," he said.

"We are a long way off finding

Funding problems have led to the scaling down of WA research into sea turtles. **STEPHANIE PEGLER** reports.

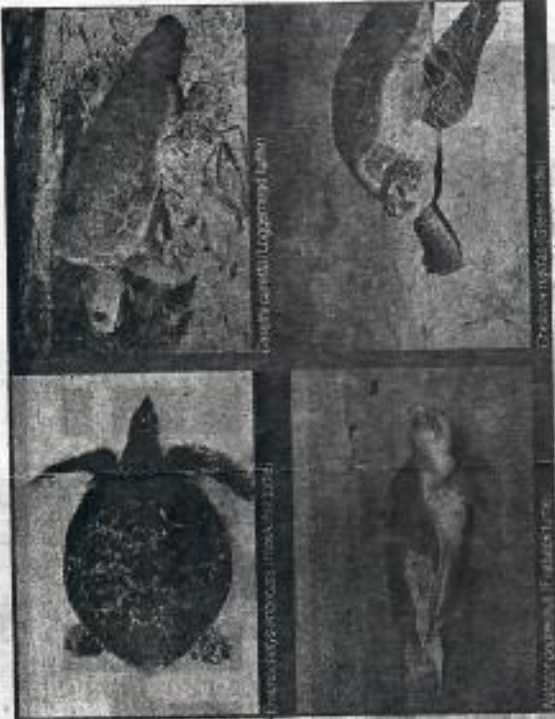
out if populations breeding in WA are stable or declining, though we could say it would be unlikely they would be increasing."

Four species — the green turtle, the hawksbill, loggerhead and flatback — visit WA shores north of Shark Bay to nest during the breeding season from November to February.

Under the project, volunteers have assisted in tagging and gathering information on more than 14,000 turtles — mainly green turtles.

Dr Prince said the green was the most abundant species off WA but researchers did not know whether the loggerhead or hawksbill was least common.

Numbered titanium tags attached to flippers enabled re-



• All these turtles nest in Western Australia.

ple to recognise a turtle, record its location and monitor when it returned to nest.

Sea turtles tend to return to the same nesting site even though they do not breed every year. Greens, for example, seldom return to breed in less than three years.

The South Pacific Regional Environment Program's Year of the Sea Turtle does not apply to WA stocks but Dr Prince hoped tagging operations would continue this year.

This summer, the funding cuts have meant many sites were not visited, including the Lacepede Islands, an important breeding site for greens.

But he was confident oil industry and Pilbara community support would help keep the project viable at Barrow and Rosemary Islands.

"I would also like to see people recognising the importance of

breeding stocks using WA nesting sites," he said.

"Because sea turtles travel long distances, it is necessary for all nations to take a coordinated interest in protecting sea turtles."

Indonesia tended to be the main country that hunted turtles bred in WA.

ANCA spokesman Gordon Anderson said his agency had allocated about \$180,000 to the project since 1986 but this financial year the project had not received new funding.

Mr Anderson said CALM made the submissions for funding but he was not sure what its priorities had been.

Grants for the next financial year had not been finalised.

Mr Anderson said sea turtles were a high priority for the agency, with funding also provided to Northern Territory and Queensland research.



WESTERN AUSTRALIAN MARINE TURTLE PROJECT

of: Dr R I T PRINCE • WILDLIFE RESEARCH CENTRE

PO BOX 51 • WANNEROO • WESTERN AUSTRALIA • 6065

TELEPHONE (08) 405 5115 • FAX (08) 396 1641

George Balazs,
NOAA, NMFS,
Southwest Fisheries Science Centre
Honolulu Laboratory,
2570 Dole Street, Honolulu,
HAWAII 96822-2396, USA

Dear George,

Thanks for the turtle tags. They were just what was needed.

I have retagged all my small loggerheads (now 3+ years, weights 5 to 7 kg). I originally used small (about 18mm loop) titaniums on these, applied with about 9mm overhang when the animals were about 500 to 800 g. These small tags started to split out of the turtles flippers earlier this year, so I know now that others we previously released with such tags are unlikely to retain tags for much longer (if any did survive).

The turtle retained have been maintained in captive situation since salvage as beach-washed waifs around this time 1991, with growth etc being monitored regularly. The animals are currently being looked after for me by a group of volunteers and used this year as the basis for a school science project by a group of 15 year olds. We also examined them via laparoscopy at 1+, and aim to look again later (with Gerald Kuchling). Of course we do not see any loggerheads of this 5-7 kg size at sea. The smallest encountered are about 40-50 kg and 60cm CCL.

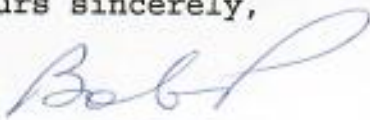
I have been away quite a bit recently, doing dugong population survey work (aerial), seeking tissue samples for population genetics of these, and also additional blood samples for same use from flatback turtles at Cape Domett in far northern Western Australia (this is a southern hemisphere 'winter' nesting location as for Fog Bay in the Northern Territory - Mick Guinea's study site).

Very good to get away from the office. Nevertheless, problems do not go away at these times. I have some very serious problems to confront regarding continuation of the turtle project work to hand. It is very hard to do a job of work spanning one third of Australia and involving all species of marine turtles without having in house critics who do not believe in a need for long term numbers data as part of a management overview for sea turtles conservation, and that

surely you must have the answer needed already (eight years at Lacedepe Islands green turtle rookery is the most substantial data set - all others less, down to one trip to Dirk Hartog Island loggerheads this past summer). I really do not know how I am going to fare in this battle.

Hope all is well with you.

Kind regards,
Yours sincerely,

A handwritten signature in blue ink, appearing to read "Bob", with a horizontal line underneath the name.

Dr R I T Prince
Senior Research Scientist
Project Supervisor
27 July 1994.

SHIP VIA	DATE ENT'D.	DEL. REQ'D.	ANTICIPATED SHIP WEEK OF
UPS-42-BLUE L	04/09/90	05/04/90	05/04/90
SHIP'G. DATA		NOTES:	
		F03 NEWPORT ZONE	
PART	COMPL.	NO. PIECES	PKG. CARTONS
		3	
DATE			
6-17			
SHIPPED WITH	TOTAL WGT.	CHECKED BY: <i>PKC</i>	

REFER TO THESE NUMBERS WHEN YOU INQUIRE
97636

PRIOR TO THIS SHIPMENT		DESCRIPTION	QUANTITY THIS SHIPMENT
QTY. ORDERED	QTY. UNSHIP'D.		
3,000	0 681	INCONEL TAGS CONSERVATION TAG 030031251C NUMBERING AND STAMPING: 1 (L-1 THRU L-999) 1 (M-1 THRU M-999) 1 (N-1 THRU N-999) ALL STAMPED: WRITE HUMB UNIVERSITY HAWAII 96744.	
1	0	SETUP CHARGE F/T 97846 AND SKETCH ATT. FOR REF. WATCH: CUSTOMER DOES NOT WANT 00'S BEFORE NUMBERS	
160	60 681S	PLIER = MAKE SURE PLIERS WORK PROPERLY FOR THE ABOVE INCONEL TAGS (CHROME PLATED) SHIP TAGS AND 65 PLIERS - ASAP (BALANCE OF PLIERS ON BACK ORDER)	60

U.S. DEPARTMENT OF COMMERCE

SUPPLY EQUIPMENT OR SERVICE ORDER

This order Number
must appear on
all invoices and
packages.
Freight charge
over \$100 requires
Bill Of Lading

6. ORDER NUMBER

40-JJNF-0-0319

1.

2. RECEIVING
OFFICE NO.

3. CONTRACT ORDERED AGAINST

A. PURCHASE ORDER
(See Reverse)DELIVERY ORDER
(See Block 3)

PAGE 01 OF 01

9246

XX

7. SUB

8. SUPPLIER'S ADDRESS

NATIONAL BAND & TAG
721 YORK ST.
P. O. BOX 430
NEWPORT, KY 41072-0430
ATTN: FRED HAAS

4. ORDER DATE

8/13/90

5. SOURCE

2

9. SHIP TO:

REFERENCE ORDER NO. 40-JJNF-0-0319 (INCLUDE ON SHIPPING LABEL)
NOAA, NMFS Honolulu Laboratory
2570 Dole St.
Honolulu, HI 96822-2396
ATTN: George Balass

TELEPHONE/CONTACT.

606-261-2035/Fred Haas

10. 1099
TAX

11. EMPLOYER I.D. #

B. REQUISITION NUMBER

C. REQUISITIONER INFO: (Last Name, Initial, Phone, Bldg. Room)

12. LINE
ITEM13. AC
CD13a.
QTY
REC.

14. DESCRIPTION

15. BUDGET
OBJECT16. ACC
LINE

17. QUANTITY

18. UNIT
ISSUE

19. UNIT PRICE

20. AMOUNT

01

INCONEL TAGS - SIZE 681
NUMBERING AND STAMPING

2619

01

1

per
1000

553.00

553.00

All Stamped: WRITE HIMB
UNIVERSITY
HAWAII 96744

NUMBERING: A-0 thru A-999

(NOTE: SEE FRED HAAS FOR CORRECT
SIZE OF LETTERS FOR STAMPING
ADDRESS.)21. FOB POINT
Origin22. DISCOUNT TERMS
Net 3023. PROMPT
PAYMENT
0

24. SUB-TOTAL

333.C

25. DELIVERY DATE
09/15/9026. SHIP VIA
UPS27. ESTIMATED
FREIGHT
25.00

28. TOTAL

578.00

29. SEE ATTACHED INSTRUCTIONS)

Reference Order No. 40-JJNF-0-0319 (Include on Invoice)

NOAA, WASC FINANCE DIVISION WC1
7600 Sand Point Way N.E.
BIN C15700
Seattle, WA 98115-007029. ACC
LINE30. BUREAU
CODE

31. ACCOUNTING CLASSIFICATION

32. DIST

33. AMOUNT

01

14

0/FSR200/8LIA3VWI

1002

(DO NOT SHIP OR BILL TO THIS ADDRESS)

NOAA, NMFS, Honolulu Laboratory
2570 Dole St.
Honolulu, HI 96822-2396

F. ORDERED BY (Name and Title)

Karen Yee, Administrative Officer

REMARKS: I certify that articles and/or services annotated above have been received, inspected
accepted as complying with this order as of the date shown.

G. FOR INQUIRIES CALL:

Deborah Yamaguchi, 808-943-1231

RECEIPT SIGNATURE & TITLE

35. RECEIPT DATE

36. TYPE SHIPMENT

H. CONTRACTING/ORDERING OFFICER SIGNATURE

I. DATE SIGNED

Karen Yee

8/13/90

U.S. DEPARTMENT OF COMMERCE

SUPPLY EQUIPMENT OR SERVICE ORDER

This order Number
must appear on
all invoices and
packages.
Freight charge
over \$100 requires
Bill Of Lading

6. ORDER NUMBER

40-JJNF-0-0319

7. SUB

1. PAGE 01 OF 01	2. RECEIVING OFFICE NO. 9246	3. CONTRACT ORDERED AGAINST	A. PURCHASE ORDER (See Reverse) XX	DELIVERY ORDER (See Block 3)
8. ADDRESS NATIONAL BAND & TAG 721 YORK ST. P. O. BOX 430 NEWPORT, KY 41072-0430 ATTN: FRED HAAS TELEPHONE/CONTACT: 606-261-2035/Fred Haas			4. ORDER DATE 8/13/90	5. SOURCE 2
10. 1099 TAX			11. EMPLOYER I.D.#	
12. TAX			13. REQUISITION NUMBER	
14. REQUISITIONER INFO: (Last Name, Initial, Phone, Bldg. Room)			15. REQUISITIONER INFO: (Last Name, Initial, Phone, Bldg. Room)	

12. LINE ITEM	13. AC CD	13a. QTY REC.	14. DESCRIPTION	15. BUDGET OBJECT	16. ACC LINE	17. QUANTITY	18. UNIT ISSUE	19. UNIT PRICE	20. AMOUNT
01			INCONEL TAGS - SIZE 681 NUMBERING AND STAMPING All Stamped: WRITE HIMB UNIVERSITY HAWAII 96744 NUMBERING: A-0 thru A-999 (NOTE: SEE FRED HAAS FOR CORRECT SIZE OF LETTERS FOR STAMPING ADDRESS.)	2619	01	1	per 1000	553.00	553.0

21. FOR POINT Origin	22. DISCOUNT TERMS NET 30	23. PROMPT PAYMENT 0	24. SUB-TOTAL 333.00
25. DELIVERY DATE 09/15/90	26. SHIP VIA UPS	27. ESTIMATED FREIGHT 25.00	28. TOTAL 578.00

D. (SEE ATTACHED INSTRUCTIONS)				29. ACC LINE	30. BUREAU CODE	31. ACCOUNTING CLASSIFICATION	32. DIST	33. AMOUNT
Reference Order No. 40-JJNF-0-0319 (Include on Invoice)				01	14	O/FSR200/SL1A3VWI	100X	
B I L L I N G S NOAA, WASC FINANCE DIVISION WCL 7600 Sand Point Way N.E. BIN C15700 Seattle, WA 98115-0070								
E. (DO NOT SHIP OR BILL TO THIS ADDRESS) NOAA, NMFS, Honolulu Laboratory 2570 Dole St. Honolulu, HI 96822-2396								

F. ORDERED BY (Name and Title)

Karena Yee, Administrative Officer

G. FOR INQUIRIES CALL:

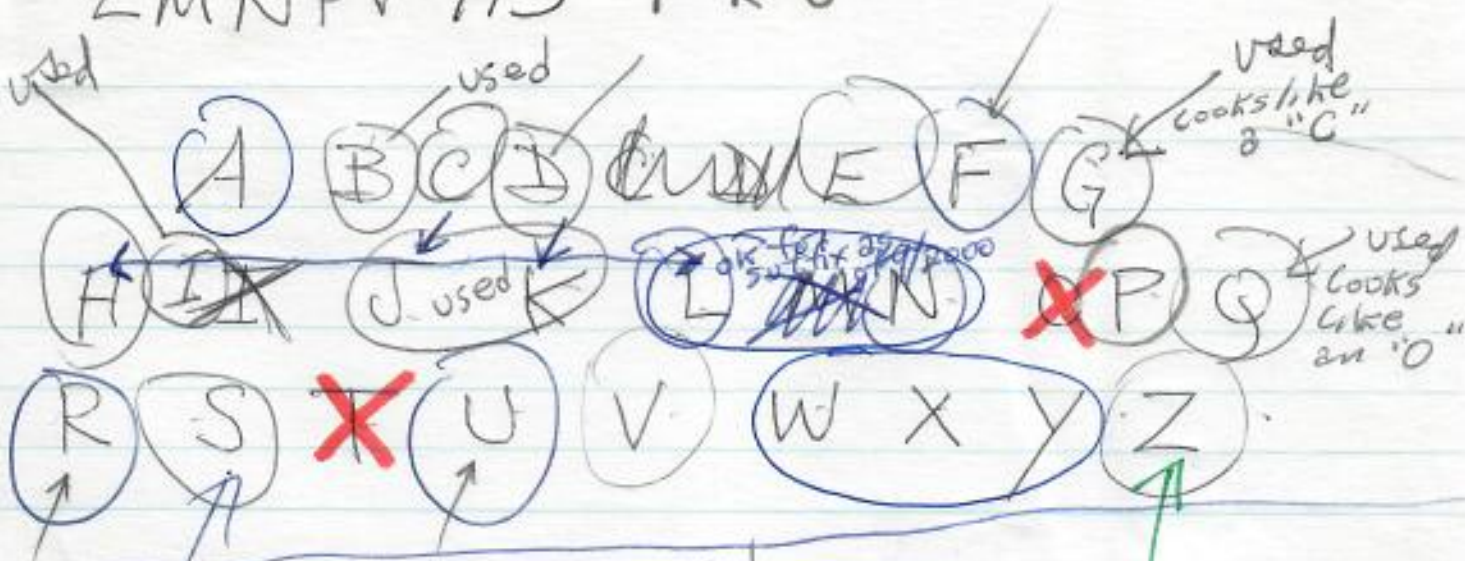
Deborah Yamaguchi, 808-943-1231

ACCEPTANCE: I certify that articles and/or services annotated above have been received, inspected and accepted as complying with this order as of the date shown.

24. RECEIPT SIGNATURE & TITLE	35. RECEIPT DATE	36. TYPE SHIPMENT	H. CONTRACTING/ORDERING OFFICER SIGNATURE	I. DATE SIGNED
-------------------------------	------------------	-------------------	-------------------------------------------	----------------

WXYZ A

LMNPV HS FRU



Suffix (C)
(E)

X 8/99

PLASTIC
DALTON
JUMBO
ROTO

401-M
Small turtle
at WS
1974/1976
25 per
Shams
9/2000
7895

(Z)
(D)
(T) 6/96

(A)
(S)
(M)

used
8/97

(H)
9/2000

(N)
P
R



2-04.074N 165-00.487 W

SIGHTING INFORMATION TURTLE AND SEAL

Animal sighted (circle): Turtle Seal
Number of animals: 1 Type, if known: MANTA
Date: 10/19/94 Observer: MACHADO
Address & phone NIMF Honolulu

(see stamp) photos

Time: 0818 (optional):
Location: 2-04.074N / 165-00.487W
Observed from (circle): shore, boat name: TOWNSEND CROMWELL,
while skin or SCUBA diving (on surface or at _____ feet deep).
Estimated size (length): 46.6 cm

Comments: (such as color pattern; injuries; scar patterns; tumors; whether flipper tags are present (Y/N); color and number of the tag(s); bleach marks (number/letter); behavior; and weather)

APPEARED TO BE RIDLEY, DULL GRN/GREY
COLOR, HEART SHAPED SHIELD, 2 PF, SMALL
HEALTHY

Seals and sea turtles are protected under Federal and State law.

DO NOT DISTURB.

TAGGED # M776 # M777

In. Eg. current.
Scratches on back
of carapace.

notch 45.0 cm

2nd 47.0 cm

46.6 cm

wt. 14.57 kg.

2N 165W.

Sta. 47.

Turtle form X0.

Possible Olive
ridley

ridge E serration on back
hooked 1 saw green
saw another - 0 tumors

[39] From: James Uchiyama 10/28/94 12:14PM (381 bytes: 4 ln)
To: George Balazs
Subject: Re: pelagic turtles

----- Message Contents -----

Unai Marcardai from CICESE will be here only today, 28
October 1994. He made the identification and reported seeing
the tumors on the head and pectoral limbs. He also spotted a
Ridley in the SEC.

SEA TURTLE OBSERVATION RECORD FORM (REV. 6/90)

INSTRUCTIONS: Please complete as many parts of this form as possible. It is not necessary for all parts to be completed. Identification of species is not required. The first priority of our project is to determine the size classes of turtles that are inhabiting different locations at different times of the year. Any information we can obtain is valuable considering our present knowledge of sea turtle distribution.

PART I: REQUIRED — PLEASE COMPLETE ALL OF THIS SECTION

1. Name of research vessel: NOAA Ship Townsend Cromwell
2. Name and address of person completing this form: Ugai Marcaida
3. Name of participating organization: CICESE UMERCEIDA CICESE.MX
internet:
4. Date of observ. 11/3/10/914 5. Local time: 2300 6. Latitude: 7° 01' N 7. Longitude: 164° 28.6'
DAY MO. YR
8. Length of shell of sea turtle (approximate size or range, give units): 2 feet
9. Species of sea turtle (see back of form): Green turtle
10. Characters used to make the identification: _____
11. If photos were taken of sea turtle, could we make copies? _____
12. Condition of observed sea turtle (circle one): A. Healthy B. Dead C. Injured **D. Diseased** E. Undetermined
13. Was there any evidence that the turtle had ingested or was entangled in debris or pollutant? No
(If you have the time, please elaborate on the back of this form)

PART II: OPTIONAL — ANY INFORMATION WOULD BE OF GREAT VALUE

CONDITIONS OF SEA TURTLE OBSERVATION

14. Sea state: Beaufort (2) 15. Weather conditions: 6 kts wind 330°
71% cloud coverage, 3-5
16. Surface water temperature: 30.2°c 17. Air temperature: 28.5°c 18. Ocean depth (give units): 2655 m
Sec
19. Location of observer (in small boat, e.g., in an avon; on deck of research vessel; swimming or diving): _____

SEA TURTLE BEHAVIOR AT TIME OF OBSERVATION

20. Were other turtles in the vicinity (approx. how many?): NONE
on fantail of research vessel; night life fisher
21. Were all of the turtles approximately the same size? - 22. Same species? -
23. Circle the letter next to as many of the following descriptors that apply to the sea turtle observed:

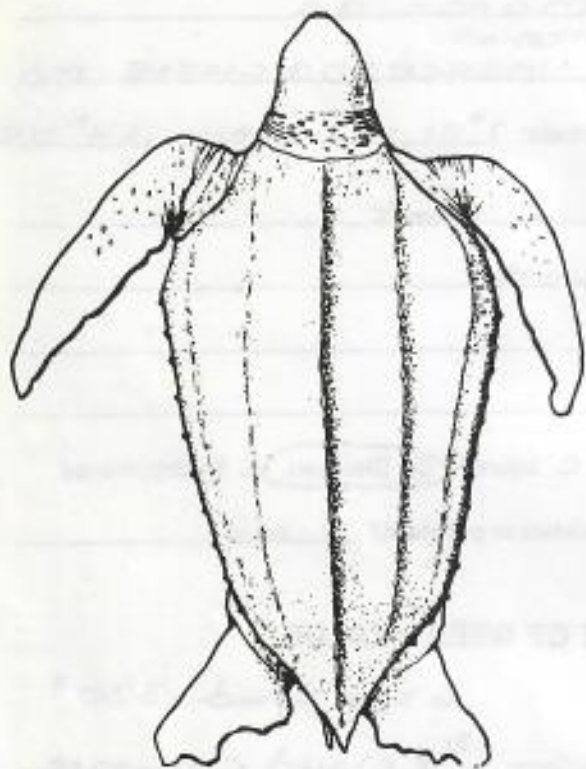
A. In sargassum weedline	B. In convergence and/or frontal zone	C. In open ocean not associated with 23A or B
D. Swimming	E. Plastic debris in vicinity	F. On vegetation or floating debris
G. Basking on surface	H. Oil/tar in immediate vicinity	I. In fish stomach; give fish species
J. Other (e.g., Entangled) _____		

24. Please make any additional comments on the back of this form.

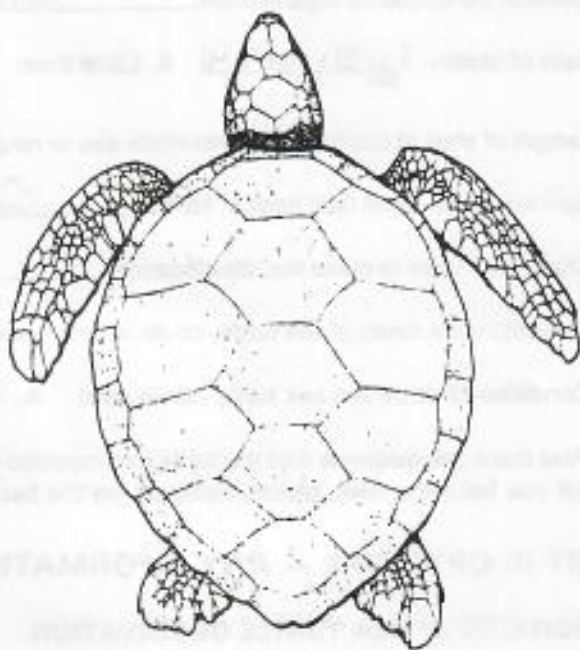
THANK YOU VERY MUCH FOR YOUR ASSISTANCE. PLEASE RETURN COMPLETED FORM TO:
 CENTER FOR SEA TURTLE RESEARCH, 223 BARTRAM HALL, UNIVERSITY OF FLORIDA, GAINESVILLE, FL 32611
 TELEPHONE: (904) 392-5194 FAX (904) 392-9166

SEA-TURTLE OBSERVATION RECORD FORM

Identification of sea turtles at sea can be very difficult. However, because the leatherback is such a distinctive species, it is almost always possible to distinguish between leatherbacks and the other species of sea turtles (green turtle, hawksbill, loggerhead, olive ridley, Kemp's ridley and flatback). The leatherback has a tough leathery surface, not a hard shell. It is black, sometimes spotted with white, and adults can reach a length of 180 cm. The most recognizable feature are the seven longitudinal ridges that run the length of the body. Please try to identify the turtle observed to a least "leatherback" or "not leatherback." That will be a great help. Thanks!



LEATHERBACK



HARD-SHELLED SPECIES

Additional Comments:

tumors on head around eyes +
on fore flippers

Date: Fri, 24 Dec 1999 09:24:24 -0400
From: Miguel Donoso <mdonoso@ifop.cl>
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Chile

TAG
Records

Hola George:

Excuse for no writing before but I'd very busy in other city. With respect to the sea turtle, I hope can to realize in January the work with satelital telemetry.

In September, I realize to tag of 19 green sea turtle in Mejillones and applied my knowledge obtained in Hawaii.

The number of tag are:

233 D - 234 D - 235 D - 236 D - 237 D - 238 D - 239 D - 240 D - 241 D
267 D - 268 D - 269 D - 270 D - 271 D - 272 D - 273 D - 274 D - 275 D
276 D. The information send by fax.

Excuse me, George, for no writing before.

Happy Christmas.

Date: Wed, 27 Oct 1999 17:34:30 -0700
From: Peter Dutton <peterd@caliban.ucsd.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Fw: Turtle tags (fwd)

George,

can you confirm that these 2 tags (562-M and 563-M) were among the ones you gave me last year? I've been through the turtle tagging data I have for last year and these 2 numbers aren't accounted for. I have records for 550-M series, and then they jump to 571-M, but no 560 M series, which is puzzling. It then jumps to 700's, 800's and some 900's. I can't put my finger on my notes of what you gave me; is it possible that those 10 tags in the 560-M series went somewhere else that might have tagged ridleys...longline observers?

-Peter

>Peter, this just in, I'll just pass to you, I'd be interested to know if
>anything very exciting (though ALL tag recoveries are in one way or the
>other. Geo.

>
>----- Forwarded message -----
>Date: Wed, 27 Oct 1999 11:21:53 -1000
>From: Marine Option Program <mop@hawaii.edu>
>To: George Balazs <gbalazs@honlab.nmfs.hawaii.edu>
>Cc: "Dr. Julie Bailey-Brock" <brock@zoology.zoo.Hawaii.EDU>
>Subject: Fw: Turtle tags (fwd)

>George--Here's some news for you.
>Sherwood

>
>
>oooooooooooooooooooooooooooooooooooo
> Marine Option Program
> University of Hawaii at Manoa
> 2525 Correa Road, HIG 215A
> Honolulu, Hawaii 96822 USA

>
> Phone: (808) 956-8433
> Facsimile: (808) 956-2417
> E-mail: mop@hawaii.edu
> Web: www2.hawaii.edu/mop/
>oooooooooooooooooooooooooooooooooooo

>
>----- Forwarded message -----
>Date: Wed, 27 Oct 1999 10:50:37 -1000
>From: Dr. Julie Brock <brock@zoology.zoo.Hawaii.EDU>
>To: mop@hawaii.edu
>Subject: Fw: Turtle tags

>
>
>----- Original Message -----
>From: PuntaMita, The Best! Better than all the rest.
><puntamita@puntamita.com>
>To: <brock@zoology.hawaii.edu>
>Sent: Wednesday, October 27, 1999 9:16 AM

>Subject: Turtle tags

>
>

>Please forward to George Balazs in NMFS. Sorry I don't have his email.
>Thanks Julie B

>

>> Julie H. Bailey-Brock, Chair
>> Graduate Specialization in Marine Biology
>> 2538 The Mall
>> University of Hawaii at Manoa
>> Honolulu, Hawaii 96822 USA

>>

>> Dear Julie H. Bailey-Brock,

>>

>> My name is David Cohen and I am the webmaster for www.puntamita.com I am
>> sending this information to you as I do not who else to contact.

>>

>> There is a small group of students camping on a near by remote beach
>called

>> Litibu. Litibu is located in the state of Nayarit, Mexico. We are
>located

>> five miles south of that location in a small town called Punta Mita.

>Punta

>> Mita is located on the Northwest point of the Bay of Flags, Bahia de
>Banderas.

>>

>> www.puntamita.com has always participated in helping students and whomever
>> is involved with the turtles.

>>

>> It appears as if one of the turtles that the University of Hawaii tagged
>> has been found. The tag reads 562-M 563-M University of Hawaii White
>himb.

>> I am told it is a *Lepidochelys Olivacea*.

>>

>> I am hoping I have reached the right department, please let me know what
>> you would like me to do and I can forward the information to the person in
>> charge of the project.

>>

>> Please advise,

>>

>> David Cohen
>> webmaster and resident of Punta Mita

>>

Peter H. Dutton, Ph.D
NOAA-NMFS
Southwest Fisheries Science Center
P.O.Box 271, La Jolla, CA 92038

tel: 619-546-5636 FAX: 619-546-7003

Date: Fri, 8 Oct 1999 14:19:37 -1000 (HST)
From: Denise Parker <dparker@honlab.nmfs.hawaii.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: UH Tag info from Mexico

Reef

dead, seen washed up on beach.

On Fri, 8 Oct 1999, George H. Balazs wrote:

> alive dead seen scuba or? this is low priority stuff. mahalo.

```
*****  
*           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 Fri, 8 Oct 1999, Denise Parker wrote:

> > Contact:

> > Leslie Beach

> > 2073 Contiental Ave.

> > Costa Mesa, CA 92627

> > Ph: 949-574-9026

> > Note after talkin with her, she mentioned she did not see turtle, but
> > learned info from friend when she was down there scuba diving.

> > Tag on RHF - UH 96744 on back and number = series 562-M

> > Area was 25 miles North of Puerta Viarta Mexico.

562-M

Tag
Series

5064-500M
TO Lutter
for ETP
8/99

Tags

7/10/98

Size #1

ZJ01 - ZJ99

YH01 - YH99

E901 - E999

(?)

Sent to Larry Estrada of
SLP.

~~Phil~~ see
me,
~~George~~

[34] From: Shawn Murakawa 8/1/95 7:58AM (2277 bytes: 38 ln)
To: George Balazs
Subject: "J" tag series

----- Forwarded with Changes -----
From: George Balazs 7/17/95 12:57PM (852 bytes: 18 ln)
To: Shawn Murakawa
Subject: "J" tag series

----- Message Contents -----
Shawn- I'm still having some confusion with this J series, the one the manufacturer made some duplicates of, and we inadvertently attached duplicates to a dozen or so turtles in Kaneohe Bay (I hope/pray that's all it was!).

I THINK THIS IS IT!

Anyway, when you time allows, please let me know which of the following tags have been used on turtles (NOTE I know that J701-J800, and J901-J950 have been used on Molokai-- at least that's what my book shows!)

J401-J500 (intact box in my office- I think these were all used in another box with the same numbers.

J420-423 used in Punaluu on 7-6-94

J426-446 used in Kaloko on 7-14-94

J447-450 used in Kaneohe Bay on 8-18-94

J454-461 used in Punaluu on 7-6-94

J464-478 used in Kaneohe Bay on 7-12-94

J482-500 used in Kaloko on 7-14-94

J501-J600

J501, 505-506, 511-519, 522-525, 526 used in Kaneohe Bay on 8-18-94

J527A-530A, 536A-545A, 546-554 used in Kaneohe Bay on 9-12-94

J527B-530B used in Kaneohe Bay on 9-22-94

J531-532, 533B, 534, 535B-544B used in Kaneohe Bay on 9-23-94

J557-564, 567-568, 571-577 used in Kaneohe Bay on 9-13-94

J582-592, 595-598, 600 used in Kiholo on 9-15-94

J601-J700

J600-605, 608-622 used in Kiholo on 9/15-9/16/94

J633-650 used in Nukumoi on 9-26-94

J651-677 used in Kaneohe Bay on 9-19-94

J683-685, 688-700 used in Kaneohe Bay on 9-22-94

J701-J800 (an apparent dup box I have intact in my office!)

J701-739, 742-788, 794-800 used in Palaau on 9/27-9/28/94

J801-J900

J801-812 used in Nukumoi on 10-18-94

J814-821 used in Caves on 10-18-94

J822-833, 837-848 used in Keawa Nui on 11-29-94

J849-898 used in Honaunau on 12-21-94

J901-J999 (an apparent dup box I have intact in my office!)

J901 used in Palaau on 9-28-94

J902-950 used in Palaau on 9/29-9/30/94

"J" PREFIX NUMBERS USED

J5	J177	J219
J6	J178	J220
J7	J179	J221
J8	J180	J223
J22	J181	J224
J23	J182	J225
J24	J183	J226
J26	J185	J227
J27	J186	J228
J28	J189	J229
J40	J191	J231
J41	J192	J233
J42	J193	J235
J43	J194	J236
J44	J195	J237
J45	J196	J239
J46	J197	J240
J47	J198	J241
J48	J199	J304
J49	J200	J307
J50	J202	J308
J51	J203	J313
J52	J204	J314
J53	J205	J315
J54	J206	J316
J55	J207	J317
J56	J208	J318
J57	J209	J327
J58	J210	J328
J59	J211	
J60	J212	
J61	J213	
J65	J214	
J66	J215	
J67	J216	

*Need replacements -
J-330 - J-999*

"J" PREFIX TAGS

TAGS	DATE	STUDY SITE
1. J121	06-15-93	Keawa Nui, South Kohala, Hawaii
J122		
J123		
2. J151	07-19-93	Palaaau, Site N, Molokai
J152		
J153		
3. J154	07-19-93	Palaaau, Site N, Molokai
J155		
4. J156	07-19-93	Palaaau, Site N, Molokai
J157		
J158		
5. J159	07-19-93	Palaaau, Site N, Molokai
J160		
6. J161	07-19-93	Palaaau, Site N, Molokai
J162		
7. J163	07-19-93	Palaaau, Site N, Molokai
J165		
J166		
8. J167	07-19-93	Palaaau, Site N, Molokai
J168		
9. J169	07-19-93	Palaaau, Site N, Molokai
J170		
10. J171	07-19-93	Palaaau, Site N, Molokai
J172		
J173		
11. J174	07-19-39	Palaaau, Site N, Molokai
J175		
J176		
12. J177	07-19-93	Palaaau, Site N, Molokai
J178		
J179		

13.	J180 J181 J182	07-19-93	Palaau, Site N, Molokai
14.	J183 J185 J186	07-20-93	Palaau, Site N, Molokai
15.	J189 J191 J193	07-20-93	Palaau, Site N, Molokai
16.	J192 J194 J195	07-20-93	Palaau, Site N, Molokai
17.	J196 J197 J198	07-20-93	Palaau, Site N, Molokai
18.	J199 J200 J226	07-20-93	Palaau, Site N, Molokai
19.	J202 J203 J204	07-20-93	Palaau, Site N, Molokai
20.	J205 J206 J207	07-20-93	Palaau, Site N, Molokai
21.	J208 J209 J210	07-20-93	Palaau, Site N, Molokai
22.	J211 J212 J213	07-20-93	Palaau, Site N, Molokai
23.	J214 J215 J216	07-20-93	Palaau, Site N, Molokai
24.	J219 J220 J221	07-20-93	Palaau, Site N, Molokai

25.	J22 J23 J24 27446F07	06-15-93	Keawa Nui, South Kohala, Hawaii
26.	J223 J224 J225 J227 J228 J229	07-20-93	Palaau, Site N, Molokai
27.	J231 J233 J235 J236 J237 J239	07-20-93	Palaau, Site N, Molokai
28.	J240 J241 J304	07-20-93	Palaau, Site N, Molokai
29.	J26 J27 J28	07-20-93	Palaau, Site N, Molokai
30.	J307 J308 J313 J314 J315 J316 J317 J318 J327 J328	06-15-93	Keawa Nui, South Kohala, Hawaii
31.	J40 J41 J42	07-20-93	Palaau, Site N, Molokai
32.	J43 J44 J45	07-20-93	Palaau, Site N, Molokai
33.		07-20-93	Palaau, Site N, Molokai
34.		07-20-93	Palaau, Site N, Molokai
35.		07-20-93	Palaau, Site N, Molokai
36.		07-20-93	Palaau, Site N, Molokai
37.		06-23-93	Kaneohe Bay, Mark's Reef
38.		06-23-93	Kaneohe Bay, Mark's Reef

39.	J46 J47 J48	06-23-93	Kaneohe Bay, Mark's Reef
40.	J49 J50 J51	06-23-93	Kaneohe Bay, Mark's Reef
41.	J5 J6 J7 J8	06-03-93	Laehi, Lanai
42.	J52 J53 J54	06-23-93	Kaneohe Bay, Mark's Reef
43.	J55 J56 J57 J58	06-23-93	Kaneohe Bay, Mark's Reef
44.	J59 J60 J61	06-23-93	Kaneohe Bay, A.O.L.
45.	J65 J66 J67 J68	07-13-93	Waikiki, Canyons
46.	J69 J70 J71	07-13-93	Punaluu, Hawaii
47.	J72 J73 J74	07-14-93	Punaluu, Hawaii

Date: 9/30/97
Sender: Tim Price
To: George Balazs
Priority: Normal
Subject: Turtle Tags

George,

Kevin Busscher is requesting an additional 225 tags so that each turtle tagging kit at the Port Field Station will have at least 40 tags. Also, I guess one of the applicators is not working properly.

For your information, the tag inventory is attached at the bottom of this email.

Any questions, give me a call.

Tim

Forward Header

Subject: Turtle Tags
Author: Kevin Busscher at ~nmfs-lb
Date: 9/25/97 10:36 AM

Tim,

The following is a list of all the tags in each kit with the requested number of tags to bring each kit to 40 tags each, plus extra tags. This list was updated on 9/25/97.

Kit #	Tag #	Total	Total Requested/Kit
1	653E-675E	23	17
2	610E-625E	32	8
	I683-I698		
3	738E-756E	19	21
4	768E-796E	29	11
5	632E-650E	19	21
6	676E-700E	28	12
	I448-I450		
7	I465-I475	32	8 **
	I580-I600		
10	711E-737E	27	13
11	I563-I575	13	27
			138 Sub Total
			87 Extra Tags
			225 Total Tags Requested

** This kit is at sea and has tagged at least 1 turtle.

We also have only 6 tag applicators for the 9 kits. One tag applicator is not working properly and I need to take it to George for his inspection. If he has 2 more tag applicators we could use them.

Thanks,
Kevin

Here is a detailed list of all the turtle tags. This list was updated

on 9/25/97. All of the tags with a question mark beside it were of unknown fate from the inventory on 10/8/96 and remain unknown on this inventory. Other codes are as follows: Example - used for test tag, Misfire - Tag did not crimp down properly, Trip number - trip in which tag was used.

Tag Numbers	Fate	Tag Numbers	Fate
I-301 - I-309	LL0088	I-490 - I-491	?
I-310 - I-325	Vessel sank	I-492	LL0127
I-493	Misfire		
I-326	Example	I-494	LL0127
I-327	?	I-495	Misfire
I-328 - I-348	LL0050	I-496 - I-500	G.Balazs
I-349 - I-350	G. Balazs	I-501 - I-503	?
I-351	Example	I-504 - I-509	LL0130
I-352	Misfire	I-510 - I-511	Misfire
I-353 - I-354	LL0038	I-512 - I-515	LL0130
I-355 - I-356	Misfire	I-516 - I-519	LL0145
I-357 - I-358	LL0038	I-520	Example
I-359	Example	I-521 - I-522	LL0151
I-360 - I-375	Lost Gear	I-523	Example
I-376 - I-379	?	I-524 - I-525	LL0163
I-380 - I-381	LL0111	I-526	Example
I-382 - I-383	Example	I-527 - I-530	LL0093
I-384 - I-396	LL0145	I-531 - I-536	LL0112
I-397 - I-400	LL0136	I-537 - I-542	LL0129
I-401	?	I-543	Misfire
I-402	Example	I-544 - I-545	LL0129
I-403 - I-404	?	I-546 - I-551	Example
I-405 - I-406	LL0071	I-552 - I-553	LL0134
I-407 - I-408	LL0120	I-554 - I-557	Example
I-409 - I-410	LL0149	I-558 - I-559	LL0164
I-411	Example	I-560	Example
I-412 - I-419	LL0152	I-561 - I-562	LL0172
I-420 - I-425	LL0110	I-563 - I-575	Kit# 11
I-426	Example	I-576	Example
I-427 - 428	?	I-577 - I-578	LL0148
I-579	Example		
I-429 - I-434	LL0144	I-580 - I-600	Kit# 7
I-435	Example	609E	Example
I-436 - I-445	LL0155	610E - 625E	Kit# 2
I-446	Example	626E	Example
I-447	Example		
I-448 - 450	Kit# 6	627E - 630E	LL0152
I-451	Example	631E	Example
I-452 - I-456	LL0048	632E - 650	Kit# 5
I-457	Misfire	651E - 652E	Example
I-458	?	653E - 675E	Kit# 1
I-459 - I-460	LL0159	676E - 700E	Kit# 6
I-461 - I-462	LL0173		
I-463 - I-464	Example		
I-461 - I-475	Kit# 7	701E - 702E	Example
I-476 - I-480	?	703E - 706E	?
I-481 - I-489	Training	707E	Example
708E - 709E	LL0166		
710E - 711E	Example		
712E - 737E	Kit# 10		
738E - 758E	Kit# 3		
757E - 758E	LL0176		
759E - 762E	Example		

763E - 766E	LL0158
767E	Example
768E - 796E	Kit# 4
797E - 800E	Example
I-683 - I-697	Kit# 2
I-698	Example

TAG FILE

I360-
I375

LOST

[19] From: Thomas Shearer at ~nmfs-lb 1/25/97 3:44AM (717 bytes: 12 ln)
To: George Balazs at ~NMFS-HONO
cc: Tim Price at ~nmfs-lb, Don Petersen at ~nmfs-lb
Subject: Turtle supplies

----- Message Contents -----

All of the applicators have been looked at by MTRP except for the one that was lost. The kit went overboard, and the tags were lost too. (I-360 to I-375 inclusive)

The supplies I requested represent our anticipated needs for the quarter, so receipt after February 1 is fine.

I will pick up the three applicators and any other available items at satellite training on Tuesday morning 1/28.

Thanks
TS

[29] From: Tim Price at ~NMFS-LB 2/6/96 1:05PM (1104 bytes: 26 ln)
To: George Balazs at ~NMFS-HONO
cc: Thomas Shearer
Subject: Re: Additional tagging kit

----- Message Contents -----

George,

To clarify, one tagging kit containing tags ^{I-}310 to ^{I-}325 inclusive, a biopsy kit, and biopsy pole were lost at sea when F/V PACIFIC PIONEER sank 35 miles off the coast of Maui on November 29, 1995. I would say that there is no chance of anyone else unauthorized ever using them on turtles, or fish, or deer, or livestock.

Cheers,

Tim

Tom- The kit will be ready for pickup today anytime after 12 noon, Room 109 here at the lab.

Regarding the lost tagging kit (or was it just a dna kit and pole that was lost?), please let me know the numbers of the tags in that kit, and the circumstance of loss (i.e., was it stolen, or were the tags accidentally deep-6'ed with no chance of anyone else unauthorized ever using them on turtles or fish or deer)?

Many thanks- have a good weekend. George

TURTLE TAG INVENTORY , JUNE 1997

THBK=TAGGED HAWKSBILL AT KAMEHAME

THBA=TAGGED HAWKSBILL AT APUA

TGH=TAGGED GREEN AT HALAPE IKI

TGK=TAGGED GREEN AT KAMEHAME

TGR=TAGGED GREEN AT RICHARDSON

P=PRACTICE

G=GOOD CONDITION IN TAGGING KIT

LOST=SWEPT INTO OCEAN

UNA=UNACCOUNTED FOR

B	
501	P
502	P
503	UNA
504	UNA
505	P
506	P
507	P
508	P
509	P
510	P
511	UNA
512	UNA
513	P
514	P
515	UNA
516	P
517	P
518	UNA
519	UNA
520	UNA
521	UNA
522	UNA
523	UNA
524	UNA
525	UNA
526	P
527	UNA
528	UNA
529	UNA
530	P
531	P
532	P
533	P
534	P
535	P
536	P

J	
76	P
77	P
78	P
79	P
80	P
81	P
82	P
83	THBA
84	P
85	P
86	THBA
87	P
88	P
89	P
90	P
91	P
92	P
93	P
94	P
95	P
96	P
97	P
98	P
99	P
100	P
126	P
127	P
128	P
129	P
130	P
131	P
132	P
133	P
134	P
135	P
136	P

R	
103	P
104	P
105	P
106	P
107	P
108	THBK
109	THBK
110	THBK
111	THBK
112	THBK
113	LOST
114	THBK
115	LOST
116	LOST
117	LOST
118	LOST
119	LOST
120	LOST
121	LOST
122	LOST
123	LOST
124	LOST
125	LOST
126	P
127	P
128	P
129	THBA
130	THBA
131	P
132	P
133	P
134	P
135	P
136	P
137	THBA
138	THBA

N	
401	P
402	P
403	THBK
404	THBK
405	P
406	P
407	P
408	P
409	P
410	P
411	THBK
412	TGK
413	TGK
414	TGK
415	TGK
416	TGK
417	P
418	P
419	P
420	P
421	P
422	P
423	P
424	P
425	P
426	TGH
427	TGH
428	TGH
429	TGH
430	TGH
431	TGH
432	TGH
433	TGH
434	TGH
435	TGH
436	P

Q	
900	UNA
901	UNA
902	UNA
903	UNA
904	UNA
905	P
906	UNA
907	UNA
908	P
909	P
910	P
911	UNA
912	UNA
913	P
914	P
915	P
916	G
917	G
918	G
919	G
920	G
921	G
922	G
923	G
924	G
925	G
926	P
927	P
928	P
929	P
930	G
931	G
932	G
933	G
934	G
935	G

B-537 P
538 THBK
539 UNA
540 UNA
541 UNA
542 P
543 THBK
544 UNA
545 UNA
546 P
547 P
548 UNA
549 P
550 P
551 P
552 P
553 P
554 P
555 P
556 THBK
557 UNA
558 UNA
559 UNA
560 THBK
561 THBK
562 THBK
563 UNA
564 P
565 THBK
566 THBK
567 P
568 THBK
569 THBK
570 UNA
571 UNA
572 UNA
573 P
574 UNA
575 P
576 UNA
577 P
578 P
579 P
580 P
581 P
582 P
583 UNA
584 P
585 THBA
586 UNA
587 P

J-137 P
138 P
139 P
140 P
141 P
142 P
143 P
144 P
145 P
146 P
147 P
148 P
149 P
150 P

R-139 P
140 P
141 P
142 P
143 P
144 P
145 P
146 P
147 P
148 P
149 P
150 P
151 P
152 P
153 P
154 P
155 P
156 THBK
157 THBK
158 THBK
159 THBK
160 P
161 THBK
162 THBK
163 THBK
164 THBK
165 P
166 P
167 P
168 P
169 THBK
170 THBK
171 THBK
172 P
173 P
174 P
175 P
176 P
177 THBK
178 P
179 P
180 THBK
181 P
182 P
183 THBK
184 THBK
185 THBK
186 P
187 P
188 THBK
189 THBK

N-437 P
438 P
439 THBK
440 THBK
441 P
442 P
443 THBA
444 THBA
445 P
446 P
447 P
448 P
449 P
450 P
451 THBA
452 THBA
453 P
454 THBA
455 THBA
456 P
457 TGK
459 TGK
460 TGK
461 P
462 TGK
463 TGK
464 TGK
465 TGK
466 TGK
467 THBK
468 THBK
469 P
470 P
471 P
472 P
473 P
474 TGK
475 TGK

Q-936 G
937 G
938 G
939 G
940 G
941 G
942 G
943 G
944 G
945 G
946 G
947 G
948 G
949 G
950 G
951 UNA
952 UNA
953 UNA
954 P
955 UNA
956 G
957 G
958 G
959 G
960 G
961 G
962 G
963 G
964 G
965 G
966 G
967 G
968 G
970 G
971 G
972 G
973 G
974 G
975 G
976 UNA
977 P
978 P
979 UNA
980 UNA
981 P
982 P
983 P
984 P
985 P
986 P
987 P

B-588 P
589 P
590 THBA
591 UNA
592 P
593 P
594 P
595 P
596 G
597 G
598 G
599 G
600 G
601 P
602 UNA
603 P
604 P
605 P
606 P
607 P
608 P
609 P
610 P
611 P
612 P
613 P
614 P
615 P
616 P
617 P
618 P
619 P
620 P
621 P
622 P
623 P
624 P
625 P
626 P
627 P
628 TGR
629 TGR
630 P
631 P
632 P
633 G
634 G
635 G
636 G
637 G
638 G

R-190 P
191 P
192 P
193 P
194 THBK
195 THBK
196 P
197 P
198 P
199 P
200 P

Q-988 P
989 G
990 G
991 G
992 G
993 G
994 G
995 G
996 G
997 G
998 G
999 G

TURTLE TAG INVENTORY 1994

George
10/94
From Larry Katakina

TGH=TAGGED GREEN AT HALAPE IKI
 TGK= TAGGED GREEN AT KAMEHAME
 THBK= TAGGED HAWKSBILL KAMEHAME
 THBA= TAGGED HAWKSBILL APUA
 P= PRACTICE
 G= GOOD CONDITION IN TAGGING KIT
 LOST=SWEPT INTO OCEAN

N-401P	R-103P	J-76P
402 P	104 P	77 G
403 THBK	105 P	78 P
404 THBK	106 P	79 P
405 P	107 P	80 G
406 P	108 THBK	81 G
407 P	109 THBK	82 P
408 P	110 THBK	83 THBA
409 P	111 THBK	84 P
410 P	112 THBK	85 G
411 THBK	113 LOST	86 THBA
412 TGK	114 THBK	87 G
413 TGK	115 L O S T	88 G
414 TGK	116 L O S T	89 G
415 TGK	117 L O S T	90 G
416 TGK	118 L O S T	91 G
417 P	119 L O S T	92 G
418 P	120 L O S T	93 G
419 P	121 L O S T	94 G
420 P	122 L O S T	95 G
421 P	123 L O S T	96 G
422 P	124 L O S T	97 G
423 P	125 L O S T	98 G
424 P	126 P	99 G
425 G	127 P	100 G
426 TGH	128 P	126 P
427 TGH	129 THBA	127 P
428 TGH	130 THBA	128 P
429 TGH	131 P	129 P
430 TGH	132 P	130 P
431 TGH	133 P	131 P
432 TGH	134 P	132 P
433 TGH	135 P	133 P
434 TGH	136 P	134 P
435 TGH	137 THBA	135 P
436 P	138 THBA	136 P
437 P	139 P	137 P
438 P	140 P	138 P
439 THBK	141 P	139 P
440 THBK	142 P	140 P
441 P	143 P	141 P
N-442P	R-144P	J-142P

N-443	THBA	R-145	P	J-143	P
444	THBA	146	P	144	P
445	P	147	P	145	P
446	P	148	P	146	P
447	P	149	P	147	P
448	P	150	P	148	P
449	P	154	P	149	P
450	P	155	P	150	G
451	THBA	156	THBK		
452	THBA	157	THBK	J-401	P
453	P	158	THBK	402	
454	THBA	159	THBK	403	
455	THBA	160	P	404	
456	P	161	THBK	405	
457	TGK	162	THBK	406	
458	P	163	THBK	407	
459	TGK	164	THBK	408	
460	TGK	165	P	409	
461	P	166	P	410	
462	TGK	167	P	411	
463	TGK	168	P	412	
464	TGK	169	THBK	413	
465	TGK	170	THBK	414	
466	TGK	171	THBK	415	
467	THBK	172	P	416	
468	THBK	173	P	417	
469	P	174	P	418	
470	P	175	P	419	
471	P	176	P	420	
472	P	177	THBK	421	
473	P	178	P	422	
474	TGK	179	P	423	
N-475	TGK	180	THBK	424	
		181	P	425	
		182	P	426	
		183	P	427	
		184	P	428	
		185	THBK	429	
		186	THBK	430	
		187	G	431	
		188	THBK	432	
		189	THBK	433	
		190	P	434	
		191	P	435	
		192	G	436	
		193	G	437	
		194	THBK	438	
		195	THBK	439	
		196	G	440	
		197	G	441	
		R-198	G	J-442	

*Returned to George
9/30/94*

J401 to J-500

		R-199G	J-443
		R-200G	444
			445
			446
			447
			448
			449
			450
			451
			452
			453
			454
			455
			456
			457
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			481
			482
			483
			484
			485
			486
			487
			488
			489
			490
			491
			492
			J-493

				J-494	
				495	
				496	
				497	
				498	
				499	
				500	

[24] From: Shawn Koga 9/20/93 1:27PM (388 bytes: 4 ln)
To: George Balazs
Subject: John Kahiapo

----- Message Contents -----

April called for him...she gave me the tag info.

Unused tags: 3954-3959, 3970-3975, 4973, H404-H425.

Used tags: H403 on June 3, 1993 at Onekahakaha SL=48.0cm,
SW=45.0cm, weight=30#,

. no tumors. Hope that helps!

[14] From: George Balazs at ~NMFS-HONO 7/29/94 4:16PM (2661 bytes: 39 ln)
To: Norm Mendes at ~NMFS-LB
cc: Mike Laurs, Jerry Wetherall, Rod McInnis at ~NMFS-LB, Jim Lecky at ~NMFS-LB,
Russell Miya, Shawn Koga, George Balazs
Subject: Re: Sea Turtle Tagging

----- Message Contents -----

7/30/94 Norm- I returned from annual leave today and, as per your response, assembled 10 turtle tagging kits. A copy of the paperwork I've enclosed with each kit has been mailed to you. All of the points you mentioned have been covered- there shouldn't be any confusion on what to do, and when to do it. Sunday night I depart for Western Samoa to attend the annual SPREP regional turtle program meeting. I'll be back in my office on August 8th. By copy of this email, I'm asking my personnel (Shawn or Russ) to deliver the kits to Tom Shearer early next week, or (better still) to contact Tom and ask if he can stop by the lab to pick them up. If any additional questions come up, please feel free to contact me on or after August 8th. Best regards, George.

In response to your inquiry...

No more than seven observers are projected to be at sea at any one time during the next two quarters. Therefore, seven sea turtle tagging kits should be sufficient to outfit the observers at sea, but three additional kits could be used as emergency backups.

It is my understanding that each kit will contain inconel alloy tags, a tag applicator, tagging accountability forms and tagging instructions.

We have the six step "how to" instructions with photos you prepared earlier, but I need additional instructions for observers, especially: 1) what to do about existing tags that are about to fall off or cannot be read; 2) when to add tags on an already tagged turtle; 3) how to account for tags, including those that are lost or damaged; and 4) what alternate sites are preferred for tag placement, if the site adjacent to the first large scale is damaged or missing.

I would appreciate any guidance you can offer to developing these instructions. Let me know your preferences and when the kits are ready, so I can arrange for their delivery and program implementation.

Thanks for all of your great help to make this important aspect of observer work a reality.

SPREP

PO BOX 240
APIA, WESTERN SAMOA

TELEPHONE: (685) 21929
FAX: (685) 20231



PROE

PO BOX 240
APIA, WESTERN SAMOA

TELEPHONE: (685) 21929
FAX: (685) 20231

HAND CARRIED - PULU HOUTHUS

With our compliments

Avec nos compliments

1,000 TURTLE TAGS

Nos. 5401 - 6400

The first one hundred (5401 - 5500) are out of order at the top. The rest are in order with the lowest numbers at the bottom of the box

5451 - 6400 BILL
7/9/92 Pulo

Adrienne Farago

SOUTH PACIFIC REGIONAL ENVIRONMENT PROGRAMME
PROGRAMME REGIONAL OCEANIE DE L'ENVIRONNEMENT

5401 - 5450 (GHB)

SPREP

B. P. DS
NOUMEA CEDEX
NEW CALEDONIA

CABLE ADDRESS:
"SOUTH PACOM" NOUMEA
TELEPHONE: 26. 20. 00
TELEX : 3139 NM SOPACOM
FAX : 6877 26. 38. 18



PROE

B. P. DS
NOUMEA CEDEX
NOUVELLE-CALÉDONIE

ADRESSE TELEGRAPHIQUE :
"SOUTH PACOM" NOUMEA
TELEPHONE : 26. 20. 00
TELEX : 3139 NM SOPACOM
FAX : 6877 26. 38. 18

With our compliments

Avec nos compliments

22 November 1991

PRO 59/4/2/1

Mr George Balazs
US DEpartment of Commerce
National Oceanic & Atmospheric Administration
National Marine Fisheries service
Southwest Fisheries Centre
Honolulu Laboratory
2570 Dole Street
HONOLULU
HAWAII 96822-2396

Dear George,

Enclosed please find four hundred turtle tags, as requested.

The numbers are ^R 2201 to ^R 2600.

TITANIUM
STOCK BRANDS

Kind regards,

pp. Williams
Paul Holthus
Project Officer (Scientist)


SOUTH PACIFIC REGIONAL ENVIRONMENT PROGRAMME
PROGRAMME REGIONAL OCEANIC EN DE L'ENVIRONNEMENT



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center Honolulu Laboratory
2570 Dole St. • Honolulu, Hawaii 96822-2396

October 22, 1990

F/SWC2:GHB
DOUG-7L.GHB

MEMORANDUM FOR: Doug DeMaster
FROM: George Balazs 
SUBJECT: Inconel tags numbered X201-X500 and applicators
for MOPS Cruises

The circumstances may now have changed that existed back in April of 1989 when I first sent you these tags. If so, I want you to feel entirely at liberty to return the tags to me whenever appropriate and convenient. You now have several options for using different turtle tags on the MOPS cruises, aside from the ones I supplied. Among your choices, you should reevaluate the possibility of using tags available through the U.S. Fish and Wildlife Service (Jack Woody) and the University of Costa Rica.

Again, keep and use our Inconel tags for as long as you have the need for them, but feel free to return them when the proper time arrives.



Plutonium nitrate

6808-6850 8/19 returned from Laysan
(Kana)

6802-6807 used.

10/15 6926-6950 ± PH¹¹ Applicators
TO Laysan/JA (cord on handle)

10/15 6860-6875 (16) Term)

Helm

Bill

Bozons 948-6677

Lazard

2/10/84 P. Verdinks 4970-4975 (6)

6802 - 6850 (49 + plies) 3/20/84 Lazard

~~6676 - 6700 (25)~~ ~~Bill~~ ~~6851 - 7050~~
~~6726 - 6750 75~~
~~7225 - 7226 - 7250 (26)~~

4/12 Mcomber 5957 - 5975
plies
(return for here)

(Pat Names letter 3/84)

6/18/84 8251 - 8350) PR A
8351 - 8450)
8451 - 8550)

8435 - Rob
8450
stund
9-17-84

6/18 Lisi 8550 - 8651

Joris Robert

6792-6800 (tune) 5/7/84 Rob

7/3 6851-6900 tune

6901-04 B WGG

2502-0202 (tune for base)

WGG

8221-8220
8221-8220
8221-8220
609

Sea turtles tagged in south San Diego Bay through March, 1991.

NMFS Tag No.	Date Tagged	Sex	Weight (kg)	Straight Carapace Length (cm)	Carapace Color	Plastron Color	Carapace Indentations	Probable species
X101-102	3/31/90	Juv	29.0	56.7	Black, round	Gray, yellow patches	slight	Black
X103-104	5/12-13/90	Male	100.0	85.5	Dark grey, mottled, oblong	Gray	slight to none	Black?
X105-106	5/12-13/90	Juv	24.0	54.4	Dark brown with creamy streaks	Pale blue-gray	slight	Black
X107-108	5/12-13/90	Fem	99.9	92.0	Dark brown with gray-green streaks	Gray with cream blotches	pronounced	Black
X109-110	5/12-13/90	Fem	88.0	85.0	Brown with green-cream streaks	Gray with cream blotches	pronounced	Black
X111-112	5/26-27/90	Male	112.0	95.5	Black with gray-green mottling	Gray, mottled	pronounced	Black
X113-114	5/26-27/90	Juv	40.5	67.0	Mottled olive and brown	Cream with gray blotches	pronounced	Black
X115-116-117	12/2/90	Fem	172.4*	104.0	Mottled dark brown and olive green-cream	Dark gray	none	?
X118-119	1/14/91	Juv	38.0	64.4	Black/brown	Gray	slight	Black
X120-121	1/14/91	Juv	26.0	59.5	Black, pointed	Gray	slight	Black
X122-123	1/28/91	Juv	13.0	46.7	Dark brown	Light brown/cream	none	Green?
X124-125	1/28/91	Fem	88.0	86.7	Dark brown with cream streaks	Gray on margin, creamy gray in middle	pronounced	Black
X98-99	3/16/91	Fem	94.5	85.6	Mottled brown and olive-green	Gray/cream	slight	?

* This turtle was last weighed in March, 1979 (Stinson, 1984).



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Alaska Fisheries Science Center
Resource Ecology and Fisheries
Management Division, F/AKC2
BIN C15700, Building 4
7600 Sand Point Way NE
Seattle, WA 98115-0070

October 6, 1993

MEMORANDUM FOR: F/SWC2 - George Balazs
FROM: F/AKC2 - Greg Morgan
SUBJECT: Turtle tags

Here are the tags that you requested. Shannon wouldn't let me hand-deliver them to Tahiti, so I had to settle for Fed-Ex.

We decided to be optimistic, and kept five sets here. They are M913-M975 (63 Total tags).

I'll send the pliers by regular mail.



George -
These are the tag #'s
we left at Tern after
turtle camp:

581C - 700C.

Already at Tern
Island from previous
tagging of "washover"
turtles are:

F901 - F999

and

F685 - F700

- Kimberly



**Ministry of Agriculture, Fisheries, Forestry & ALTA
FISHERIES DIVISION**

P.O. Box 358, SUVA, FIJI
TEL: +679 361122 FAX: +679 361184

FACSIMILE TRANSMISSION

If any pages of this fax is not clear please advise us for resending

TO: Dr. George Balaz Date: 19/12/95
Company: US Department of Commerce. NOAA - NMPS, South West Fisheries Centre Page 1 of 6
Country: Honolulu - Hawaii
Fax: 808 - 943 - 1290
FROM: Aisake Batibasaga File Ref: Tur. Doc
Title:
Subject: Sea Turtle Research / Tags request.

Dear George,

Ni sa bula vinaka.


- 1) I have sent out a revised proposal on Sea Turtle work for US\$5000 as you suggested to Sue Miller from 04/12/95. So far, I haven't got a reply back.

I suggest that the funding requested above be used for nesting and biopsy collection from Koro Island and Northern Vanua Levu (Udu Point and Natewa Peninsular). Koro Island is also like Kadavu, traditionally re known for Sea Turtle Calling. No nesting survey had been done there previously. Please, could you enquire from Sue on any outcome from this.

- 2) Could you please send us some more X - tags from your lab. We released closed to 100 this year, but the data are all in Makogai. We have recently released some young hawksbills raised in Treasure Island Resort (date 16/12/95). The small hawksbills (CCL = 17 - 21 cm) were released with your small X - tags, which seems to fit them well. There will be other Resorts like Castaway that will be releasing some juvenile Turtles soon. We have already started some work in Koro Island from last week.

- 3) If there is any skin biopsy for analysing, how will we send it, and where to? Please advice. Also who will pay for analysing?

Thank You George, and anticipate your assistance. Moce mada. Aloha!

 [Aisake Batibasaga] for A / DF.

SEA TURTLE TAGGING FORM

ID numbers of new tags attached and any old tags already present ¹		Species ² and sex (if known)	Date and time	Place-name location (or latitude and longitude)	Activity of the turtle ³	Curved carapace length ⁴
Left front flipper	Right front flipper					
X 209		Juvenile Hawksbill (captive breeding)	10.12.95 (11-12 Midday)	Treasure Is. (off Lautoka)	Resting in concrete raceway	CCL: 18.5cm MPW WIDTH: 18.0cm
X 211		JUV. HKB	16.12.95 (11-12 Midday)	Treasure Is. Resort	Resting	CCL: 19cm MPW WIDTH: 18.5cm
X 212		JUV HKB	16.12.95	Treasure Is. Resort	Swimming around raceway	CCL: 18.0cm MPW WIDTH: 18.0cm
X 213		JUV HKB	16.12.95	Treasure Is. Resort	Swimming around raceway	CCL: 17.5 mid width on CCL: 17.5cm

12.2 x 229
17.5 x 227
17.0 x 228
17.0 x 229

¹If old tags are present, please carefully record the ID number and the complete address inscription. Indicate if the tag is made of metal or plastic. Use the back of this form if more space is needed to provide details on each turtle handled. Two tags should be applied to all turtles handled.

²CM = *Chelonia mydas* (green turtle), EI = *Eretmochelys imbricata* (hawksbill), CC = *Caretta caretta* (loggerhead), LO = *Lepidochelys olivacea* (olive ridley), DC = *Dermochelys coriacea* (leatherback), ND = *Naturae depressa* (Australian flatback).

³Activities include (for example) nesting on the beach, swimming or resting in the sea, injured or found sick, etc.

⁴Measured with a flexible tape along the curvature of the midline of the upper shell (carapace).

Name and address of person filling out this form: _____

RETURN TO: G. BARLAS
 HONOLULU LABORATORY
 Southeast Fisheries Center 18.0 x 2.08
 2575 Dole Street 17.5 x 2.08
 HONOLULU, HI 96822 18.5 x 2.11
 18.5 x 2.09

SEA TURTLE TAGGING FORM

ID numbers of new tags attached and any old tags already present:	Species ² and sex (if known)	Date and time	Place-name location (or latitude and longitude)	Activity of the turtle	Curved carapace length ¹
X223	Juvenile Hawksbill, captive raised at Treasure	16.12.75 Midday	Treasure Is. (Off Vuda & Lau-toka)	Swimming around concrete runway	CC: 18.0cm MND: 18cm
X225	JUV. HKB.	16.12.75	Treasure Is. Reef.	Resting, after feeding.	20cm (CL) 19cm.

If old tags are present, please carefully record the ID number and the complete address in-scription. Indicate if the tag is made of metal or plastic. Use the back of this form if more space is needed to provide details on each turtle handled. Two tags should be applied to all turtles handled.

CM = *Chelonia mydas* (green turtle), EI = *Eretmochelys imbricata* (hawksbill), CC = *Caretta caretta* (loggerhead), LO = *Lepidochelys olivacea* (olive ridley), DC = *Dermochelys coriacea* (leatherback), NB = *Natasa depressa* (Australian flatback).
 Activities include (for example) nesting on the beach, swimming or resting in the sea, injured or found sick, etc.
 Measured with a flexible tape along the curve of the midline of the upper shell (carapace).

Name and address of person filling out this form: _____
 17.5 x 2.5
 17.5 x 2.5
 18.5 x 2.11
 19.0 x 2.12
 18.5 x 2.09

Refused 73-6-8-10-10
 BONGOLU LABORATORY
 Southeast Fisheries Centre / 6-0 v 108
 2590 Deir Street

622 x 5.61
 17.0 x 2.1
 622 x 0.61
 17.0 x 2.1

from Susan Pultz
1995

TINIAN SEA TURTLE STUDY

Record of Tags - 10/3/95

<u>Tag #</u>	<u>Location</u>
I-601-604	Misapplied
I-605-608	On turtle #3 4/4/95
I-609	Misapplied
I-610	On turtle #4 5/11/95
I-611	Returned to Honolulu
I-612	On turtle #5 5/17/95
I-613	On turtle #4 5/11/95
I-614	?
I-615	On turtle #5 5/17/95
I-616	?
I-617-625	Returned to Honolulu
I-626&627	Misapplied
I-628&629	On turtle #1 4/1/95
I-630-632	On turtle #2 4/3/95
I-633	Misapplied
I-634	On turtle #2 4/3/95
I-635&636	On turtle #1 4/16/95
I-637	Misapplied
I-638-641	?
I-642	Misapplied
I-643	On turtle #6 (replaced missing I-679) 7/6/95
I-644-650	Returned to Honolulu
I-651-675	Dan Grout - on Rota, cpm 1
I-676&677	On turtle # 5 5/18/95
I-678&679	On turtle #6 5/23/95
I-680&681	On turtle #4 5/12/95
I-682-698	Returned to Honolulu
I-699&700	On turtle #6 5/23/95
I-701-800	Returned to Honolulu

Marcaje de Tortugas Marinas

Paso 1: Preparación de las marcas

Despegue la cinta adhesiva para remover una o dos marcas al mismo tiempo. Si Ud. quita demasiado de la cinta adhesiva, las marcas podrían caerse y perderse.

Remueva la marca del porta marcas.

Escriba el número de la marca en el registro de datos.

Tenga cuidado de no doblar la marca de la forma original.

Paso 2: Preparación del aplicador (forma del alicate)

Con el lado puntiagudo hacia arriba, ponga la yema de su dedo índice dentro de la marca cerca de la curva.

Agarre el aplicador con la otra mano, con el lado marcado hacia arriba.

Usando el dedo índice, jale la marca hacia atrás dentro de la boca abierta del aplicador.

Un tirón bastante fuerte es necesario para poner la marca en la posición correcta.

Cuidado de no apretar el aplicador antes de estar listo para marcar la tortuga. Si Ud. presiona el aplicador un poco y después lo suelta, la marca podría caerse.

Paso 3: Colocación de la marca

Si hay alguien para ayudarlo, esa persona podría mantener agarrada la tortuga al modo de que ella no pueda moverse.

Localice la posición correcta en el borde posterior de una de las aletas delanteras, ya sea cerca de, pero no a través de, las escamas grandes de la parte central de la aleta.

Si el sitio recomendado para poner la marca está dañado o si no puede usarlo por cualquier razón, seleccione otro sitio en el borde posterior de la aleta delantera.

Coloque la marca en la aleta dejando un espacio entre el borde de la aleta y la parte curva de la marca.

Paso 4: Fijación de la marca

Apriete el aplicador fuerte y firmemente para colocar la marca.

La punta perforará la aleta y se trabará encorvándose fijamente al cerrarse.

Es necesario aplicar bastante presión con la mano durante la parte final, para cerrarla completamente.

Puede usar las dos manos para apretarla si quisiera.

Paso 5: La segunda marca

Repita pasos del 1 al 4 para aplicar la segunda marca de la misma forma en la otra aleta delantera.

Siempre que sea posible, marque cada tortuga dos veces.

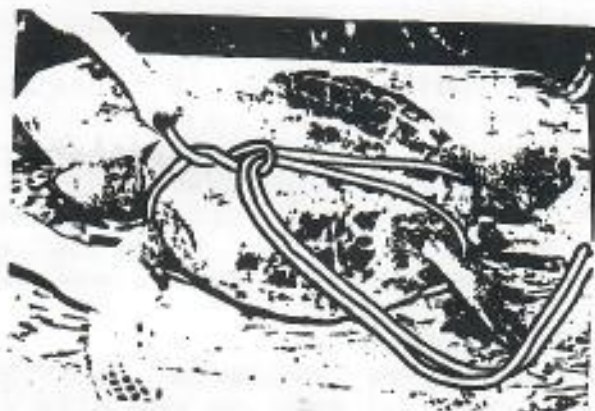
Use marcas con números consecutivos en la misma tortuga si es posible.

Si una marca está arruinada, favor de registrarla en el formulario de datos.

Nota: La marca no debe removerse a menos que: a) la marca está muy oxidada a punto de desprenderse o casi ilegible y no tiene ya utilidad. Algunas veces la cara de la marca está tan dañada que el observador debe asegurarse de haber leído correctamente su número. b) Cuando la persona que efectúa la recaptura carga marcas y aplicadores, y la marca presente en la tortuga es muy vieja o está mal colocada, debe reponerse antes de que la tortuga sea liberada. c) Si la tortuga está muerta remueva las marcas y envíelas a la dirección que aparece en ellas.

Método para Atar una Tortuga para Pesarla

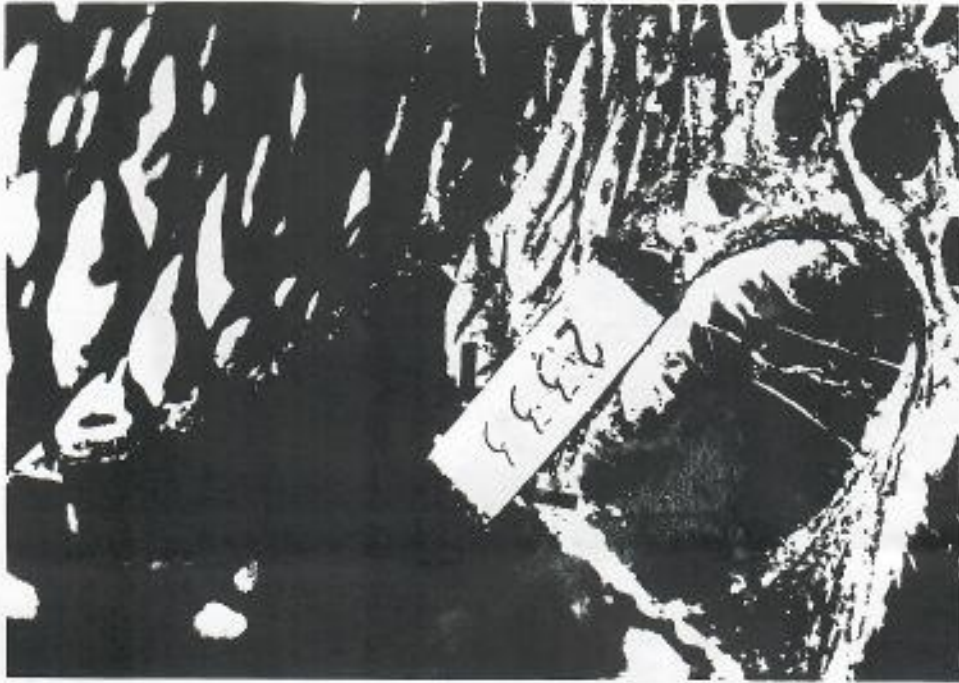
Con frecuencia es necesario pesar las tortugas para investigaciones científicas. Una cuerda de plástico trenzada con diámetro de 1.5 cm es suficiente para asegurar la tortuga para pesarla. Con el método ilustrado para atar la tortuga, el carapacho, y no las aletas, cargan con el peso de la tortuga. También este método es conveniente para transportar una tortuga con el mínimo de esfuerzo. Este método es mejor que utilizar una red u otras técnicas. Otros métodos lastiman la tortuga.



Método para atar una tortuga con una cuerda de plástico para pesarla.

Adaptado por
Macol M. Stewart
ARCAS
11 Calle 6-66, Zona 2
01002 Guatemala

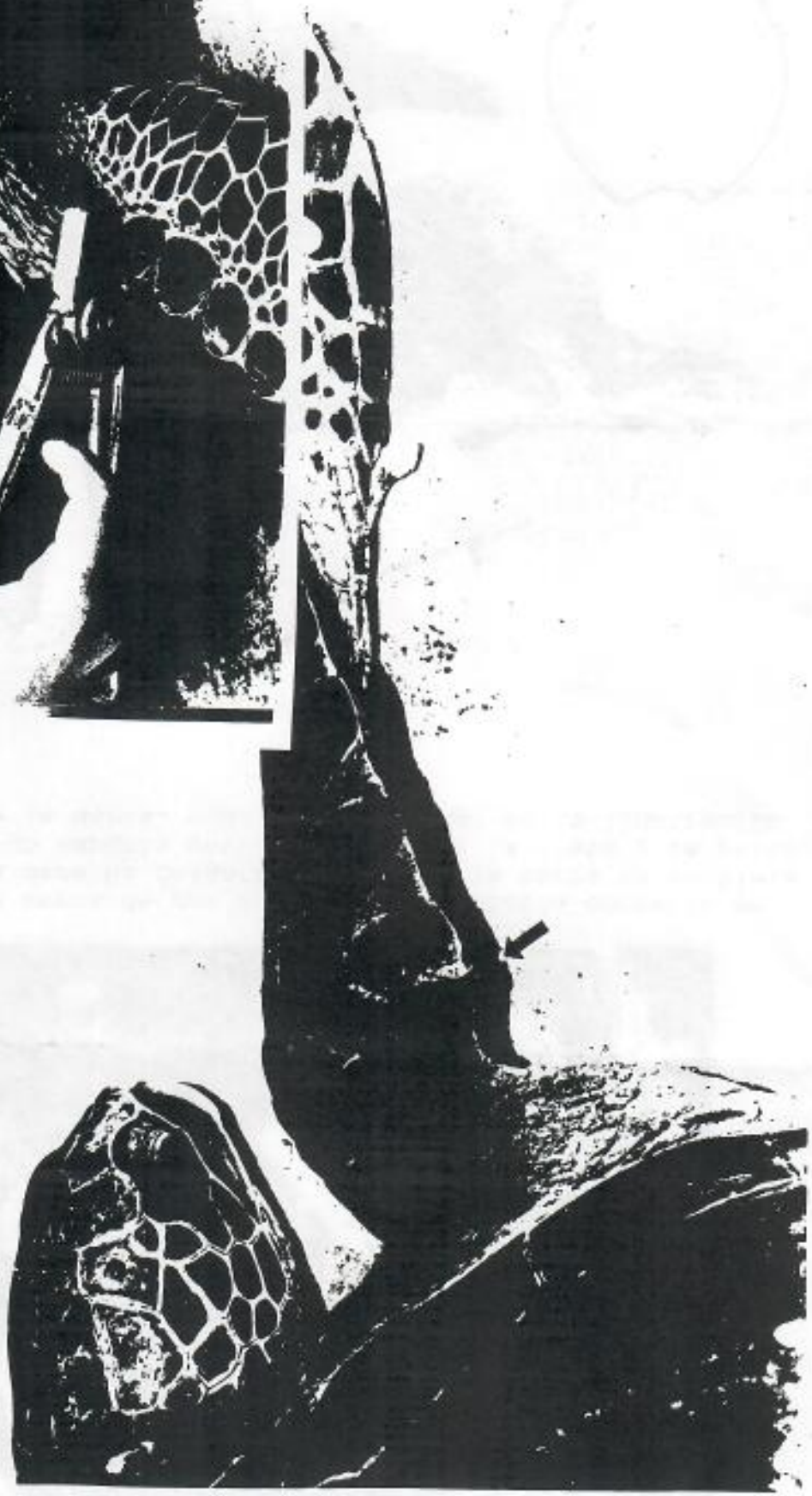
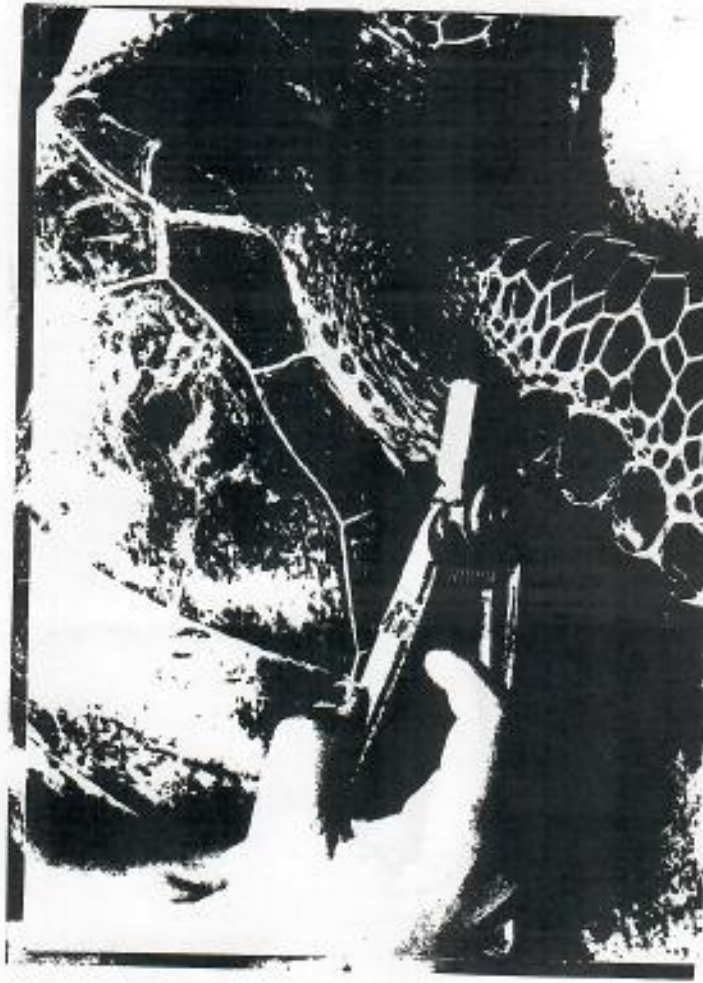
Basado en una obra de
George H. Balazs
NMFS, 2570 Dole Street
Honolulu, Hawaii
96822-2396 USA



Vista de cerca de una marca en la posición correcta en la aleta derecha delantera. Coloque la marca en la aleta dejando un espacio entre el borde de la aleta y la parte curva de la marca, como está indicado en la ilustración.

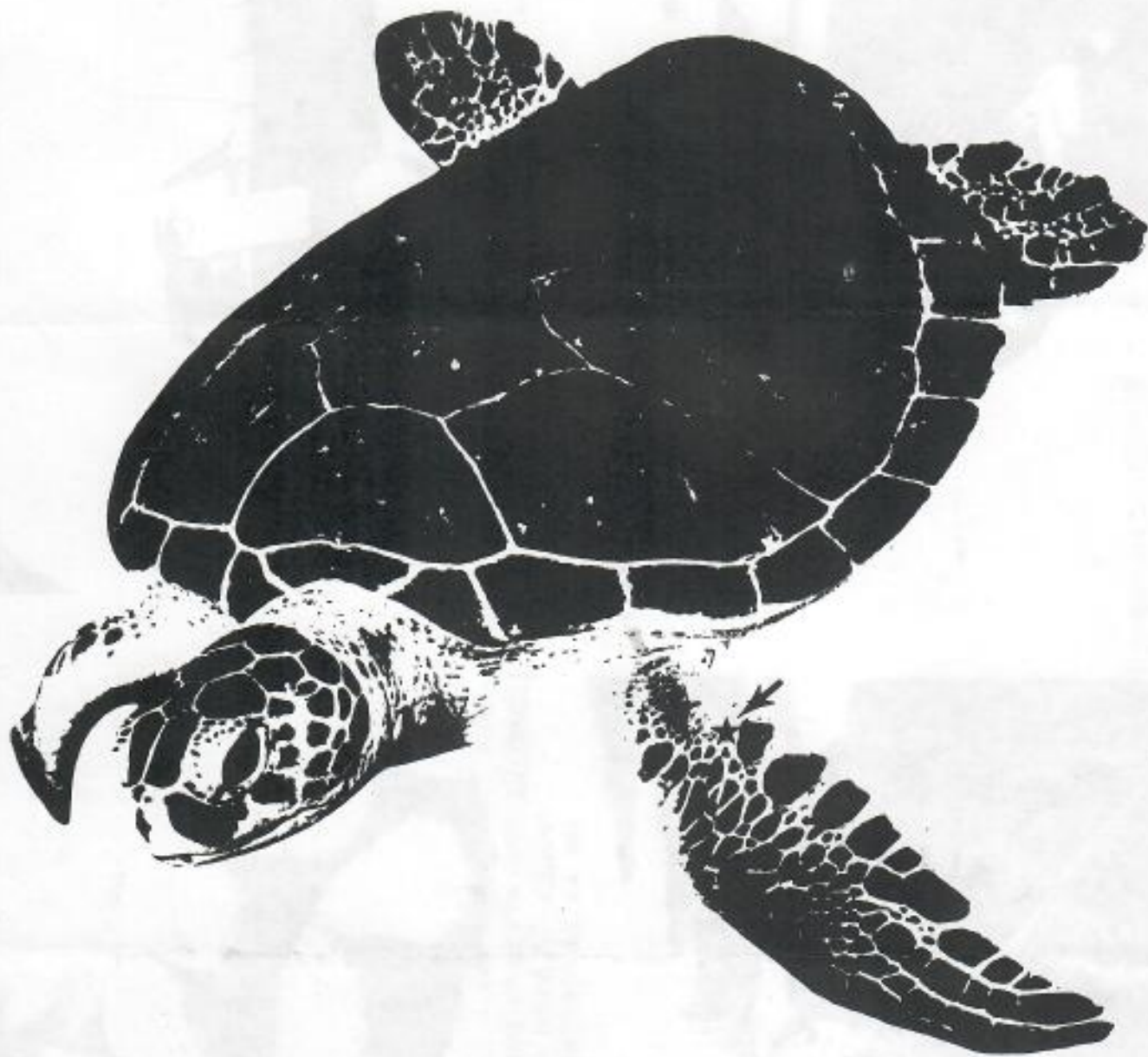


Método para medir la longitud curva del carapacho.

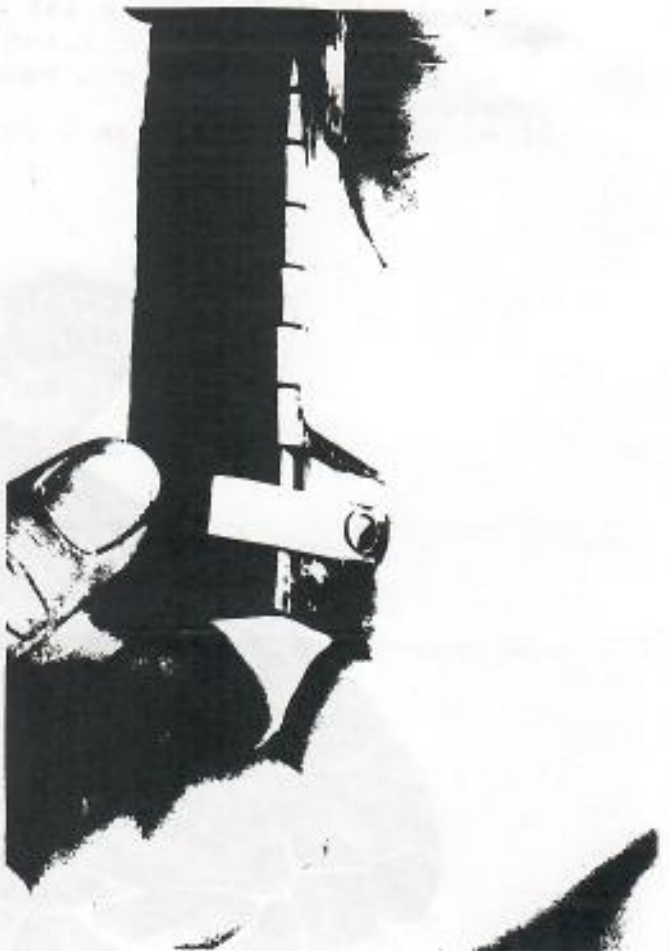


Paso 4: Apriete el aplicador firmemente para trabar la marca con la punta encorvada fijamente.

debidamente para aplicar las marcas correctamente.
Lubrique el aplicador frecuentemente con aceite que funcione bien.
Si el aplicador moja con agua del mar, en seguida lávelo con agua dulce y
lubrique lo.
Si el aplicador comienza a oxidarse, pintelo con pintura anticorrosiva.



Paso 3: Localize el lugar correcto (★) donde el lado con punta de la marca perforará la aleta como está indicado en la ilustración. Coloque la marca cerca de, pero no através de, la primera escama grande.



Paso 1: Remueve la marca del porta marcas con cuidado.



Paso 2: Con el lado puntiagudo hacia arriba, ponga la yema de su dedo indice dentro de la marca cerca de la curva.



Paso 3: Agarre el aplicador en la otra mano con el lado marcado hacia arriba. Usando el dedo indice, jole la marca hacia atrás dentro de la boca abierta del aplicador.



Datos de Marcaje y Anidamiento de Tortugas Marinas

Investigador: _____ Fecha: _____ Hora: _____

Especies: _____ Anido o No anido (indique con un circulo)

Localidad: _____ Fase Lunar: _____

Marea: _____ Condiciones del oleaje(indique): calmado, moderado, fuerte

Temperatura en campo: _____

Condiciones climaticos (indique): calido, nublado, templado, lloviendo

Evidencia de marcaje previo: Si o No

Número de marca vieja 1) _____ Número de marca nueva 1) _____

Número de marca vieja 2) _____ Número de marca nueva 2) _____

Longitud del carapacho: Recta: _____ cm/pulgadas Curva: _____ cm/pulgadas

Ancho del carapacho: Recto: _____ cm/pulgadas Curvo: _____ cm/pulgadas

Ancho de la cabeza: _____ cm/pulgadas Peso: _____ kg/lbs

Información sobre el lugar de oviposición:

Distancia a que se ha construido el nido de la linea promedio de marea
alta: _____ m/pies

Vegetación: _____ Estructuras: _____

Otros comentarios: _____

Numero de huevos: _____

Destino del nido: _____

Duración total de la investigación: _____

Diagrama del rastro o huella (trácelo aqui):

Datos Sobre Incubación y Eclosión de Huevos de Tortuga

Número del nido: _____ Número de huevos: _____

Fecha y hora de Anidamiento: _____

(Si el nido no está fresco o si es una donación, estime la edad.)

Numero de marcas de la tortuga (si tiene): _____

Fecha y hora de sembrado: _____ Especie: _____

Profundidad del nido: _____ Fecha probable de eclosión: _____

Fecha y hora de eclosion: _____ Días de incubación: _____

Fecha de excavación y observaciones: _____

Huevos eclosionados: juveniles escaparon del cascarón: _____

Número de tortugas vivas fuera del cascarón: _____

Número de tortugas muertas fuera del cascarón: _____

Huevos sin eclosionar: _____

Tortugas vivas en huevos perforados: _____

Tortugas muertas en huevos perforados: _____

Huevos sin eclosionar con un embrión evidente: _____

Huevos no-fértiles sin un embrión evidente: _____

Mutantes encontrados vivos en el nido: _____

Mutantes encontrados muertos en el nido: _____

Porcentaje sobrevive = $\frac{\text{vivas fuera del cascarón}}{\text{número de huevos}}$ = _____ = _____

Comentarios: _____

Peso de 20 individuos seleccionados al azar salidos del nido (solo vivas):

1) _____ 5) _____ 9) _____ 13) _____ 17) _____ (pesos en gramos)

2) _____ 6) _____ 10) _____ 14) _____ 18) _____

3) _____ 7) _____ 11) _____ 15) _____ 19) _____

4) _____ 8) _____ 12) _____ 16) _____ 20) _____ Peso Promedio: _____

Destino de las tortugas eclosionadas: _____

Fecha de liberación: _____

Observaciones: _____

SEA TURTLE TAGGING SUMMARY

The Sea Turtle Tagging Summary is a tabular record to account for the disposition of self-piercing, self-locking Inconel alloy tags that are not returned after an observed longline fishing trip. All lost or damaged tags are to be recorded in the Disposition Notes.

Tag Number	Specimen Number	Disposition Notes	
I - 481	Training Tag	Unknown Dates	
I - 482	Training Tag	↓	
I - 483	Training Tag		
I - 484	Training Tag		
I - 485	Training Tag		
I - 486	Training Tag		
I - 487	Training Tag		
I - 488	Training Tag		
I - 489	Training Tag		Unknown Dates

F A X
.....

Department of the Interior
National Park Service
Hawaii Volcanoes National Park/
Resources Management Division
Mail: P.O. Box 52, Hawaii National Park, HI 96718-0052
Location: Hawaii Volcanoes National Park, Building 322
Voice: (808) 985-6088 Fax: (808) 985-6029

Date 12 June 97

To: George Balazs

Fax #: 808 / 943-1290

From: Larry Katahira

Pages: 2

Subject: Tags

Hi George,

The following is a list of turtles tagged from 1991-96. I will give you a comprehensive list of tags on hand by next week ~~practice~~ and return all used tags. We currently have 4 applicators.

We plan to monitor 4 to 5 beaches this season and would like to have dedicated tagging kits for each site. size of turtles

The measurements for the green at Richardson were 54 cm curve length & 52 curve width. There were 3 tumors on right eye & 2 on left eye & 2 in mouth. The size of all tumors were "pea size". I apologize for not getting the info to you sooner. See ya, TS=1 Larry
over TS=2

Notify MTRP TO SHIP TO HONOLULU

TURTLES TAGGED AT HAVO 1991-1996

[] TAG FALLEN OFF

LF	RF	LP	RP	DATE TAGGED	LOCATION	SPECIES	SEASON RETURNED
N-451	N-452			19-Jul-91	APUA	HAWKSBILL	1993,1995
N-454, B-585	N-455			03-Sep-91	APUA	HAWKSBILL	1993,1998
N-443	N-444			04-Aug-92	APUA	HAWKSBILL	1994,1998
R-128	R-130			17-Jul-93	APUA	HAWKSBILL	1996
R-138	R-137			25-Aug-93	APUA	HAWKSBILL	
J-83	J-86, B-580			04-Aug-94	APUA	HAWKSBILL	1996
N-403	N-404			04-Aug-91	KAMEHAME	HAWKSBILL	1993,1996
N-439	N-440		B-800	03-Sep-91	KAMEHAME	HAWKSBILL	1993,1995
[N-468], B-770/B769	N-467			04-Aug-92	KAMEHAME	HAWKSBILL	1995
N-411	B-760			19-Sep-92	KAMEHAME	HAWKSBILL	1995
[R-108], B-706	R-109			03-Jul-93	KAMEHAME	HAWKSBILL	1996
R-111	R-110			04-Jul-93	KAMEHAME	HAWKSBILL	
R-112	R-114			07-Jul-93	KAMEHAME	HAWKSBILL	
R-158/R-165	R-157/R-164			14-Jul-93	KAMEHAME	HAWKSBILL	1996
R-159	R-158, B-582			18-Jul-93	KAMEHAME	HAWKSBILL	1996
[R-162], B-759	R-161			24-Jul-93	KAMEHAME	HAWKSBILL	1995
R-164	[R-163], B-765			25-Jul-93	KAMEHAME	HAWKSBILL	1995
R-170/R-171	R-169			05-Aug-93	KAMEHAME	HAWKSBILL	
R-177/B-768	[R-180], R-183			24-Aug-93	KAMEHAME	HAWKSBILL	1995
[R-188], [B-786], B-561	R-189, B-560			23-Jun-94	KAMEHAME	HAWKSBILL	1996
R-194	R-196			29-Jul-94	KAMEHAME	HAWKSBILL	
B-757	B-755	B-767	B-768	18-Jun-95	KAMEHAME	HAWKSBILL	
B-782/B763	B-761			28-Jun-95	KAMEHAME	HAWKSBILL	
B-771	NO RFF			08-Jul-95	KAMEHAME	HAWKSBILL	
B-775	B-772			11-Jul-95	KAMEHAME	HAWKSBILL	
B-774	B-773			17-Jul-95	KAMEHAME	HAWKSBILL	
B-777	B-776			11-Aug-95	KAMEHAME	HAWKSBILL	
B-538	[B-543], B-556			12-Jun-96	KAMEHAME	HAWKSBILL	
B-713	B-714			25-Jun-96	KAMEHAME	HAWKSBILL	
B-585	B-588			12-Aug-96	KAMEHAME	HAWKSBILL	
B-569	B-588			20-Aug-96	KAMEHAME	HAWKSBILL	
N415/N-412(3-4 web)	N-414	N-413	N-418	14-Jul-92	KAMEHAME	GREEN	
N474	N-475			20-Jul-92	KAMEHAME	GREEN	
N-460	N-459			22-Jul-92	KAMEHAME	GREEN	
N-463	N-457		N-462	22-Jul-92	KAMEHAME	GREEN	
N-485	N-484		N-488	22-Jul-92	KAMEHAME	GREEN	
B738	B737/B739			11-Jun-90	KAMEHAME	GREEN	
N-426	N-427			13-Jun-91	HALAPE IKI	GREEN	
N-428	N-429			13-Jul-91	HALAPE IKI	GREEN	
N-430	N-431			13-Jul-91	HALAPE IKI	GREEN	
N-432	N-433			13-Jul-91	HALAPE IKI	GREEN	
N-434	N-435			13-Jul-91	HALAPE IKI	GREEN	
B629	B628			29-Oct-96	RICHARDSON	GREEN (JUVENILE WITH TUMORS)	

Tag File

Date: Thu, 8 Jan 2004 09:32:31 -1000
From: Shawn Murakawa <smurakaw@honlab.nmfs.hawaii.edu>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Tags for Lanai

MARITA DOGARE

I mailed 25 tags to Albert. The tag series is 1A00 - 1A24.

Don't worry about here, just take care of the important stuff.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center Honolulu Laboratory
2570 Dole St. • Honolulu, Hawaii 96822-2396

PROTOCOL FOR THE LONGLINE FISHERY OBSERVER PROGRAM TO COLLECT TISSUE BIOPSIES FROM SEA TURTLES FOR DNA ANALYSIS

CATEGORY A: Sampling a live sea turtle brought aboard the vessel.

1. Stabilize the turtle by turning it over and holding it still in a supine position. If available, a second person should provide assistance.
2. Using a disposable alcohol swab, clean the skin region located immediately dorsal to each of the hind flippers. The skin in this area is normally soft and smooth, and devoid of hard or enlarged keratinized scales. Skin dorsal of the hind flippers is the preferred area to biopsy. However, if for some reason it is not possible to sample this region, skin in the ventral pectoral area, at the base of the front flippers, may be used.
3. Carefully remove a new biopsy punch (Acu-Punch brand) from its sealed wrapper. Exercise care in handling as the circular cutting end of this instrument is very sharp. Use caution by holding the cutting edge away from you and other persons at all times.
4. Hold the plastic handle of the biopsy punch using your thumb and index finger. Place the circular cutting end on the smooth skin dorsal of a hind flipper and rotate the punch while pressing down with moderate force. A circular cut will rapidly be made through the skin. Continue to rotate and press down to about 5 mm depth, or until the steel blade reaches maximum penetration. For samples taken from small turtles (<25-35 cm carapace length), cutting to a depth of only 2-3 mm, or about half the length of the steel blade, will be sufficient.
5. Withdraw the biopsy punch from the skin by lifting it straight out. Use forceps to grasp and remove the thin circular plug of skin resulting from the cut made with the biopsy punch. The plug may momentarily adhere to the underlying tissue, but will easily detach when lifted away.
6. Immediately place the plug of skin in a designated vial containing harmless purified granular salt (NaCl). Shake the vial for several seconds after replacing the cap. Label the vial with the date, the turtle's flipper tag number, and/or any other unique identifying information available for the turtle. These data should correspond with information entered in your observer's logbook.
7. Using the same biopsy punch, obtain a second disk of skin from the turtle, but from the opposite hind flipper region. This should be accomplished by repeating the procedures listed in Steps 1-6.



Place the second plug of skin in the same labeled vial. Store the vial in a secure location reserved for valuable scientific specimens.

8. When both skin samples have been obtained, immediately return the biopsy punch to its protective wrapper and mark the package as "used." Return it to the National Marine Fisheries Service Honolulu Laboratory for proper disposal. Additional new biopsy punches have been supplied to each observer; therefore, the same punch should not normally be used to obtain skin samples from another turtle. However, if for some reason it becomes absolutely necessary to use a punch on a different turtle, the instrument must first be thoroughly cleaned of any tissue and then soaked in 90% alcohol for 15 minutes or longer. A pint of 90% alcohol has been supplied for this purpose.

The forceps used to grasp the skin plug must always be thoroughly cleaned of any adhering tissue and rinsed with 90% alcohol after each turtle is sampled.

9. The turtle should be released in an appropriate and safe manner after all pertinent data have been collected and the turtle has been tagged. No special treatment of the biopsy site is necessary prior to release. Slight bleeding may occur, but this will cease shortly after the turtle has been returned to the ocean.

CATEGORY B: Sampling a dead sea turtle brought aboard the vessel.

1. Follow the same protocol as described above for a living turtle (Category A, Steps 1-8).

2. Be certain that the turtle is, in fact, dead prior to freezing it for transport to a National Marine Fisheries Service Honolulu Laboratory. A comatose but live sea turtle may, in some cases, exhibit absolutely no movement or signs of life. In other cases, a unconscious turtle may show some evidence of eyelid or tail movement when touched. A turtle that shows no signs of life after 2 hours on deck (held in the shade where further damage to it won't occur) may be safely considered as dead.

CATEGORY C: Sampling a large sea turtle dead or alive in the water alongside the vessel that has been hooked or entangled.

1. Unpack the trigger-controlled tissue biopsy device (Anchor brand) and attach it to the end of the 10-ft wooden pole using the hardware that has been supplied. Attach the nylon cord to the trigger. Cock the biopsy device by pressing the lever located on top of the plastic handle. This will open the split needle and activate the trigger.

2. While firmly gripping the pole at the opposite end, position the biopsy needle and press it the full distance (about 3.5 cm) into the turtle's tissue at any accessible location, EXCEPT the carapace, plastron, head, eyes, and neck. The dorsal and ventral pectoral regions, at the base of each front flipper, are the preferred sites for this procedure. Once the needle has been inserted, pull the cord on the pole to engage the trigger. Immediately withdraw the needle and carefully lay the pole and biopsy device on the deck.
3. Press the lever again to open the needle. Using forceps, carefully lift out the small piece of muscle tissue that was captured within the needle when the bottom and top snapped shut after the trigger was pulled. Place the sample in a labeled vial following the same instructions given in Category A, Step 6.
4. If time and circumstances permit, it is highly desirable to obtain a second sample by repeating Steps 2 and 3 using the same biopsy device attached to the pole. If feasible, the opposite pectoral region of the turtle should be sampled.
5. Disassemble the biopsy device from the end of the pole and save the hardware for future use. Rinse the hardware and biopsy device thoroughly with fresh water and dry before storage to prevent corrosion. Replace the biopsy device in its protective wrapper, mark the package as "used," and return it to the National Marine Fisheries Service Honolulu Laboratory for proper disposal. Additional sterilized biopsy devices have been supplied to each observer. If for some reason it becomes absolutely necessary to use a biopsy device on another turtle, follow the cleaning procedure outlined in Category A, Step 8.

Prepared by:

George Balazs
Marine Turtle Research Program
National Marine Fisheries Service
Honolulu Laboratory

(808)943-1240; Fax (808)943-1290

and

Robert Morris, DVM
Makai Animal Clinic
Kailua, Hawaii

(808)262-9621

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SEA TURTLE TAG CENTER OF THE PACIFIC

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The Sea Turtle Tag Center of the Pacific is a cooperative program to make available tags, tag applicators, and technical assistance in the tagging of sea turtles for research purposes to government and other qualified organizations in the Pacific islands region of Polynesia, Micronesia, and Melanesia. The program is jointly conducted by the Southwest Fisheries Center Honolulu Laboratory of the National Marine Fisheries Service, NOAA, and the University of Hawaii's Hawaii Institute of Marine Biology (HIMB). The program is designed in particular to aid those locations where small to moderate numbers of tags (i.e., 100-500) are needed, and local authorities or organizations might not otherwise order them from the manufacturer.

The tags available for use are made of Inconel, a superior corrosion-resistant alloy composed of cadmium and nickel. The tags are self-piercing, self-locking, and simple to use when applied with a special plierlike applicator to the trailing edge of a turtle's front flippers. All tags are imprinted consecutively with a letter-number combination to permanently identify individual turtles. In addition, the following inscription appears on each tag:

Write HIMB
University
Hawaii 96744

Persons who report the resighting of a tagged turtle to this address are sent a T-shirt bearing a sea turtle logo. The resighting information that is received is relayed in a timely manner to the research organization responsible for tagging the turtle.

The distribution to tags in the Pacific islands region under this cooperative program has been under way for several years, but without the benefit of a formal name until now.

Organizations interested in receiving more information about the availability of tags from the Sea Turtle Tag Center of the Pacific should write to: G. H. Balazs, Southwest Fisheries Center Honolulu Laboratory, National Marine Fisheries Service, 2570 Dole Street, Honolulu, Hawaii 96822-2396 (FAX 808-942-2062).

How to tag a sea turtle using the self-piercing, self-locking Inconel alloy tags supplied by the Sea Turtle Tag Center of the Pacific

- Step 1: Remove a tag from the strip and record its identification number on the tagging form. Be careful not to bend the tag from its original shape. Only peel back enough tape on the strip to remove one or two tags at a time. If more tape is removed, the tags are liable to fall off and be lost.
- Step 2: With the pointed (piercing) side of the tag up, place the end of your index finger inside the tag against the bend.
- Step 3: Hold the applicator in your other hand with the painted mark (or label) on the handle facing up. Using your index finger, pull the tag straight back into the open jaws of the applicator. A firm pull will be needed for the tag to snap completely into its correct position. Take care not to squeeze the applicator together before you are ready to tag the turtle. If the handles are squeezed part way and then released, the tag will fall out.
- Step 4: Locate the correct site where the tag will be applied to the trailing edge of the front flipper. If someone is available to help, have the person hold the turtle so it won't move around. Be sure to position the tag so there will be some "overhang" after it is attached to the flipper.
- Step 5: Apply the tag by squeezing the applicator together in a firm, steady manner. The tag point will pierce the flipper and lock into place with the tip bending securely over. The applicator must be squeezed together with some force at the final point in order to *fully lock the tag*. It may be helpful to use both hands when squeezing the applicator.
- Step 6: Repeat the entire procedure and apply a second tag at the same site on the other front flipper. All turtles should be double tagged in this manner. Use consecutive tag numbers on the same turtle, whenever possible. If a tag is ruined for some reason, please record this information on the tagging form. If the recommended tagging site has been damaged or for some other reason is unsuitable for tag application, then an alternate site may be used along the trailing edge of the front flipper.