

11-18 NOVEMBER 00 - Midway IV #1 421

BALAZS Mead 2000
COMPOSITION

MIDWAY II *Book*

"NAVAL AIR FACILITY"

NAF

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

wide ruled / réglage large / rayado ancho

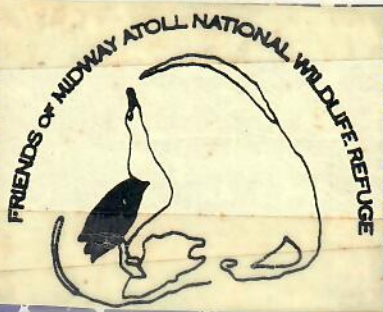
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George Balazs

395-6409

ME 429

MIDWAY



WH6BLQ
George H. Balazs
992-A Awaawaanoa Place
Honolulu, Hawaii 96825



Need 25, 26, 31 & 32

METROCAL
mead

Record of AZC Midway
Temperature Loggers p. 163

Nautical chart #19482 Midway Islands

cell phone
Ken = 75
Katie = 28

**SQUARE
DEAL**

National Imaging &
Mapping Agency
(seen at FWS
Midway Visitors
Center)

SCHEDULE HORAIRE/HORARIO

599-5888
(808) 481-2029

TEMPERATURE LOGGERS DEPLOYED

TIME HEURE HORA	1	2	3	4	5	6	7	8
MONDAY LUNDI LUNES	TUG PIER - Fuel Pierside		TIDBIT + STOWAWAY (2 hours) in PVC 266016+					21 feet
TUESDAY MARDI MARTES								
WEDNESDAY MERCREDI MIERCOLES								
THURSDAY JEUDI JUEVES								

CARGO PIER - 383501/6-00+

TIDBIT + STOWAWAY (2 hours) in PVC
224564 ~ 22 ft

Page 198-200 cargo & Temp. GRABITS
MARCH through
Sept 2009

not right. Could be white/pink veining of
FP but just can't tell from this angle. (pink "smoke"
through tissue?)



GEORGE H. BALAZS
ZOOLOGIST AND LEADER
MARINE TURTLE RESEARCH

and
Regional Vice Chairman for the Pacific Islands
IUCN Marine Turtle Specialist Group

HONOLULU LABORATORY
SOUTHWEST FISHERIES SCIENCE CENTER
NATIONAL MARINE FISHERIES SERVICE
2570 DOLE STREET

HONOLULU, HAWAII 96822-2396 (808) 983-5733

Email: gbalazs@honlab.nmfs.hawaii.edu Fax: (808) 983-2902

Report turtle strandings: (808) 983-5730

11/17/00
11/17/00

Capture Summary
Page 13

Page 97

Growth Rate

Summary

MIDWAY

11-18 NOVEMBER 00

Sample 1 (page 101)

Date pages = 36-95

kniethammer@midwayisland.net

* Ken Niethammer = 1-808-599-5888 (dial tone) 808-421-3375

SUSAN RICKARDS (REEVE)

SLP 1980

gent 68-1815 LINA POEROE

caretaker

of 125 FFs hatchlings

WAIKOLA, HI 96738

(808) 883-0006

SREEVE@ALOHA.NET

* Jennifer Schramm = (2nd dial tone) (808) 421-3330
jschramm@midwayisland.net

gent Matt Parker
15004 24th SW

Seattle WA 98166

parkster22@hotmail.com

thanks!

NOTICE A. TABO

MIDWAY ISLAND - 23

Box 29460

Honolulu, HI 96820-1860

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RON ANGLIN
MIDWAY ATOLL, HI

STOMACH/MOUTH IDS = Pages 110-111

②

FACTS FROM FWS Brochures

July 5 1859 ^{Capt} Brooks

Tray Atoll

Refuge = 1988

Open 8/96 to visitors

2530 M years old

Commercial Pacific Cable Co. 1903?

1935 Pan Am Seaplane Base

Midway Naval Air Station March 1940 started construction ^{Commissioned} 8/1/41

June 4, 42 Major Attack on Midway by Japan

Dewarving Line → WWII

1992 - closed Navy Base

1996 Midway Phoenix Corporation

" " May - Oct = warm, sunny, cooler nights Air Temp. 70-85°F

Nov - April - dip to 50°F STRONG winds

Water Temps = mid 70's Summer, mid 60's winter

Annual Rain = 40 inches year

"Midway Naval Air Station"
→ "Midway Naval Air Facility"

Sand 1.8 mi x 1.2 mi = 1200 Acres

Eastern = 334 Acres

1250 from two SPIT 6 Acres



Date: Wed, 13 Dec 2000 16:09:32 -1000
From: "Marc R. Rice" <mrice@hpa.edu>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Midway Coordinates

Midway diving site coordinates that I have written in my notebook:

Fish Hole---28 11.838 N, 177 21.761 W
Keoki's Ledge--- 28 12.629 N, 177 25.541 w

4

----- Forwarded message -----
Date: Sun, 7 Jan 2001 16:06:00 -1000 (HST)
From: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
To: Ron <ranglin@midwayisland.net>,
Nancy Hoffman <nhoffman@midwayisland.net>
Cc: Marc- HPA Rice <mrice@hpa.edu>,
Ken Niethammer <kniethammer@midwayisland.net>,
Rob Shallenberger <Robert_J_Shallenberger@r1.fws.gov>
Subject: Summary of our significant Midway sea turtle findings, 11-18 Nov. 00

Aloha, In bullet form, here's what we accomplished and learned at Midway during our last 7-day collaborative NMFS/USFWS/Hawaii Preparatory Academy expedition to Midway:

- 29 green turtles were captured of which 20 were newly tagged and 9 were recaptures.
- Size classes of the 29 turtles consisted of 14% adults, 10% subadults and 76% juveniles.
- New visual harmless carapace ID number were applied, starting with 43 and ending with 61. Several of the old carapace numbers from two years ago were found to be, as expected, no longer readable.
- Small blood samples were collected from all new animals for DNA analysis and from all 29 for biotoxin analysis.
- One of the 29 turtles was found to be mildly afflicted with tumors (fibropapillomatosis). Other cases of this disease have been verified at Midway over the years, in low prevalence.
- Growth in carapace length calculated from our recaptures revealed an exceedingly low rate. Of the nine recaptures, time since last measurement ranged from 14-25 months. 4 displayed absolutely no carapace increase, 4 ranged from 0.3-0.8cm/year increase, and 1 grew 2.7 cm/year. We would like to know the latter turtles secret for success at Midway, certainly it knows something or is doing something better than the other turtles.
- As in all past current turtle work at Midway, all turtles were double PIT tagged in the hind flippers (one in each). There were no loses of PIT tags in the turtles recaptured.
- Stomach samples from gentle stomach flushing were collected from five turtles and a fecal pellet was collected (accidentally) from a sixth. Contents are being analyzed and ID'ed by a Hawaii algae specialist (Dr. Dennis Russell) currently at the UAE Sharjah University.
- An unusual "fishy" odor from many of turtles' mouths was discovered to be from feeding on Lepas goose neck barnacles growing on floating objects floating in from pelagic waters. A sea turtle researcher (Denise Parker) at our NMFS Lab has previous discovered and published findings of Lepas being very important in the diets of pelagic loggerheads of the N. Pacific (including offshore waters of Midway). Lepas can only grow on floating objects, hence at least one positive aspect of marine "debris" such as floats.
- Carapace ID 18, an adult female, was recaptured in the inner harbor. This turtle has originally been marked, PIT tagged and measured on 3/19/97 by Nancy FWS turtle team basking on Turtle Beach (formerly Koral Kings Dive Shop area when I first started working at Midway in the 1970's). Turtle 18 was subsequently documented nesting on the Tern Island South Beach (at French Frigate Shoals) during June of 1999. Her discovery by us now back at Midway (her home when not nesting) completes the RoundTrip Migration (foraging home- to nesting beach- and back home again) that many researchers dream about verifying, but are seldom able to accomplish.
- New longterm seawater temperature recorders were deployed strapped tightly to piling at 20 ft depths on the Cargo and Tug piers.

There is more to tell. But I think that's enough for now, I'll follow up in the near future with some added items. Best Regards, 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 *

Summary of species found in these samples:

Chlorophyta

Cladophora sp.
Codium cuniatum
Halimeda sp.
Microdictyon setchellianum

Sea Grass

Halophila hawaiiiana

Phaeophyta

Dictyota crenulata
Sargassum sp.
Sphacelaria tribuloides
Zonaria sp.

Rhodophyta

Ceramium sp.
Griffithsia sp.
Galaxaura ?
Hypnea nidifica
Hypnea sp.
Jania capillacea
Laurencia nidifica
Laurencia sp.
Polysiphonia sp.
Spyridia filamentosa

Cyanophyta

Lyngbya majuscula

Subject: Significant Midway sea turtle findings

2-7-01

2566
Recovery

see p. 124

See p. 124

This is a follow-up message to provide you with some added and very interesting, important information on results unfolding for our sea turtle

team research at Midway. Recall that one of the reasons I was eager to renew the work up there, after a 20 year "pause," was to hopefully find some of the turtles we tagged back then with the Koral Kings Dive Club. That goal has been achieved, at least for one animal, as follows.

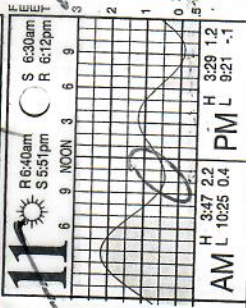
On April 8, 2000 Nancy and team examined a turtle basking on Turtle Beach that had tag 2566 on it's left front flipper. The turtle measured 70.5 cm in SCL and in good condition. Mototool No. 40 was applied to the carapace. Records show that this turtle was tagged on June 18, 1978 captured in the water near Eastern Island. At that time the turtle 59.4 cm SCL. The slowness of the growth is of course truly astonishing (11 cm in 22 years = 0.5 cm per year). But not inconsistent with the vast majority of other shorter-term recaptures of a year or two made for Midway turtles.

Slowness of growth for juvenile/early subadults at Midway, undoubtedly a reflection of marginal northerly Pacific habitat (including food sources) for green turtles has profound management implication. And this is coupled with what I judge to be high levels of predation by tiger sharks happening at Midway. Little wonder it's taken maybe 20-50 years for some signs of turtle recovery to be showing up (as evidenced by some large turtles there now- something we rarely saw in the 1970's). Former authorized hunting by Navy folks up to about 1972 or so surely had some effect, as did years of impact from indirect military activities.

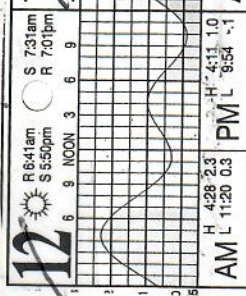
However, not all things are black and white. Midway is a sheer pinnacle in pelagic waters, marginal for green turtles. The man-made infrastructures of the piers and inner harbor clearly provide critical habitat for the animals to subsist at this outlier location as well as they do. It was that way in the 1970's and, to my eye, continues to the present. Aloha, George

NOVEMBER 2000

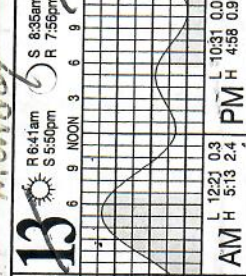
DAY 1
Saturday



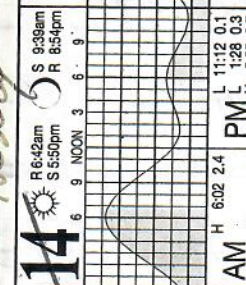
DAY 2
Sunday



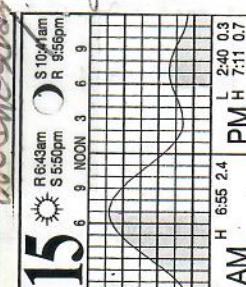
DAY 3
Monday



DAY 4
Tuesday

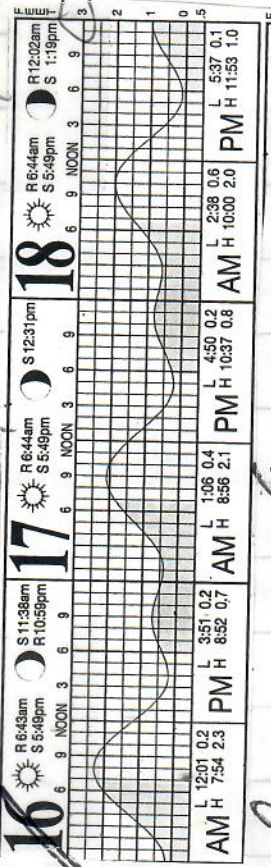


DAY 5
Wednesday



(5 scoop
1 BASK)

Friday



Saturday

3 scoop
3 scuba
1 net

5 net
1 scoop
3 scuba

3 scuba
Tug Pier

7 net
1 scoop

3 scoop
3 hands scuba

SCOOP
13

NET
3

HAND SCUBA
12

BASK
1

= 29 total

11 Nov. 00 Saturday
Depart Honolulu for Midway Aloha FL475
~ 4:10 PM
w/ Kevin FWS Kilauea Pt (up & back); ^{uses hydrophore tubes} Norm FWS Midway

Dinner at All Hands Club. Visited Turtle Beach
saw adult ^{male} ~~male~~ ^{female} ~~female~~ basking ~ 10 PM.

"1584" password for satellite phone. ^{Cisinski phone}

#36 - Swims unusual as per Nancy (p. 126) ^{see}

^{pick} Video of island from Aloha Air.

USFWS Biologist
Jennifer Schumann

12 Nov 00 Sunday
TUNER Harbor ^{view} SUNRISE ~ 6:30 AM ^(TUNER Harbor)
7:20 AM ^{sunrise} Seawall ¹ AdH Susan ^{8:30 - 9 AM}
^{NE Seawall}

Notes from FWS talk: ^{25th AdH} outside seawall
declared

1988 overlay w/ Navy

1996 ^{Oct} NWR exclusive by Clinton

Introduction by Kevin; Kate (MPC) ^{July}
Jenn ^{hydrophore}

(TO p. 10)

8

11-18 Nov. φφ
Midway

OBJECTIVES/GOALS:

- NO - Recover TDS remaining of 3 put out in 1999 - ^{MAKEUP OR SCHEDULE} ^{NO SONIC TRANSMISSIONS} Location
- ✓ - Make recoveries of previously tagged turtles - growth/health status
- ✓ - Capture untagged turtles - collect blood for DNA, ^{NO} plasma
- ✓ - Health - Screen all turtles for ^{BLOOD DOTS FOR BISTOXIN} tumors
- NO - Trace ^{DIGITAL} flippers of population differences
- ✓ - Close up's of eyes for anomalies
- ✓ - Behavioral observations of foraging, resting and movements
- ✓ - Deploy temp. loggers - ^{inner Harbor} cargo pier
- NO - Halophila/algae observations/mapping
- NO - " Dino collection
- NO - Basking
- NO - INNER Reef - haul outs etc.
- PARTIAL - Eastern Island - habitat use ^{Ken told of BASKING BY PIER}
- new MTs for visitor participation w/ Research
- Need Student at Midway for Turtles.
- Ideas to enhance Turtles - ^{artificial habitats} Feeding (bird feeders)
- Resight MT #s. ^{PAST +} THIS TIME NEW.

Date: Mon, 12 Feb 2001 15:22:57 -1000 (HST)
From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
To: Ron <ranglin@midwayisland.net>,
Ken Niethammer <kniethammer@midwayisland.net>,
Nancy Hoffman <nhoffman@midwayisland.net>,
Rob Shallenberger <Robert_J_Shallenberger@rl.fws.gov>,
Marc- HPA Rice <mrice@hpa.edu>

see
p.4-5

Subject: Re: Another follow-up report on sea turtle studies at Midway

In my last message I summarized the recapture of a ^{59.4} cm turtle we tagged 21.8 years at Midway that exhibited a pitifully slow rate of growth. As an exciting follow-up, I report now a very recent recovery, again by Nancy and Team, demonstrating accelerated growth of a near-adult 80.3 cm individual.

The turtle was PIT tagged and measured on 4/29/99 and assigned MotoTool 22 while basking on Turtle Beach. The straight carapace length at that time was 80.3 cm. 21 months later, on 1/17/01, the turtle was again seen napping on Turtle Beach and remeasured as 85.3 cm. The increase of 5.0 cm equates to about 2.8 cm/yr, an exceeding Rapid Rate, in contrast to the data sent in my last message. And, especially, for such a large turtle, for which most of the published information suggests a considerable slowing of the growth process. Obvious this turtle doesn't fit the "mold," or the mold is wrong in certain cases and new ground is being uncovered at Midway.

Please encourage Nancy to continue devoting her time to turtles- she's clearly on a Winning Streak and I'm eager to see what she turns up next!
Aloha, George

[Faint handwritten notes on lined paper, including phrases like "1000 guests at a time", "BBC - Midway Islands of Life - Discovery Channel", and "To look for" with a checkmark.]

CONTINUED FROM p. 7

- (4) Visitor Access map slide
- (3) space shuttle Aerial

POB?

Need 1

12 Nov 00
Sunday

Jennifer lecture - 1st slide map - H.A. w/ Midway
Need (2) Aerial of Atoll/Islands from East, 5 miles across diameter

1903 Pacific Cable Co. telegraph - towers around

July 4, 1903 took 9 minutes

PANAMA China Clipper - TO orient.

1950s LEW Line distant early warning

780,000 Laysans; 42,000 Black footed

oldest banding record = 48 years

90,000 SBT - Eastern; 400 grayback

Mid 1997 - Rats eradicated

- Limit 100 guests at a time

Cargo pier - ^{set up} bright lights - attract fish

Need

BBC "Midway Islands of Life" - Discovery Channel

Turtles feeding on Codium shown in he
Where located? Obtain copy TO V

TO page 12

Susan Reported

Moto tool # 29

seen 1340 hours
by cargo pier

View of Midway
 use old photos - get 1970's
 + Bird photos
 - Book Store
 DID obtain several postcards of Midway
 TO DIGITALLY SCAN
 - Marica photos and 35mm wall photos (Midway House)

Photos needed

- 35mm - Midway Refuge Signs
- ✓ - Piers / INNER Harbor
- ✓ - Seawalls
- Historic photos of pictures on the wall - Midway House

"ARTIFICIAL MARINE
 Turtle Habitats"
 (AMTH)

(12)

Wed Midway
Bow Sholeto

12 NOV 00 Made arrangements/meeting w/ Ken NiThanne
Sunday Terry Goer re: use of vehicles - Van today
then ^{FWS} pickup truck. Me in "Midway House" 00
house "Maids Quarters". MARC FWS

Dead turtle recently found off Turtle Beach -
cut up by Cynthia and Wayne ~~of the~~ ^{the} Sentman

~ 11 AM proceeded to check seawalls -
Inner Harbor - Marc & Katie Harrington - pickup
Van - Everyone else and me, to opposite side
of inner harbor along seawall. Caught ^{w/ scoop} ~~are~~
No others seen. Marc scooped four
by Cargo Pier ~~seawall~~ seawall. Two subadult
seals - one on seaplane ramp, the other
on Turtle Beach. Juvenile green bastard
on Turtle Beach - picked it up for
processing. After lunch, worked up 6
turtles in ^{Midway House} drive way in back of
pickup truck.

18 Nov: 00
Data pages
36-95

Summary of Recovery points
11- NOV pp 15
Captured turtles

note total
summary
p.37

DAY	Scoopnet	Hand Seals	BASK	NET	TOTAL
11-12-00 (1) Sunday	(5) (4 Recap, 1 new)	(0)	(1) (1 new)	(0)	(6)
11-13-00 (2) Monday	(3) (1 Recap, 2 new)	(3) (1 Recap, 2 new)	(0)	(1) (1 new)	(7)
11-14-00 (3) Tuesday	(1) (new)	(3) (2 new, 1 recap) <small>new shark bite</small>	(0)	(1) (Recap)	(5)
11-15-00 (4) Wednesday	(0)	(3) (all new)	(0)	(0)	(3)
11-16-00 (5) Thursday	(1) new	(0)	(0)	(1) New	(2)
11-17-00 (6) Friday	(3) (1 Recap, 2 new)	(3) (3 new)	(0)	(0)	(6)
Methods/Totals =	(13)	(12)	(1)	(3)	(9)
11-18-00 Saturday no captures	(see page 97) SCL Range (N=29) Weight Range N=				<u>TOTAL</u>
					9 Recaps, 20 new

Life is difficult * SKRM Need Midway POINT OUT AFTER 11/00 date has been entered. *

- 14 Follow up to complete work started 25 years ago:
- Fewer turtles seen under cargo pier or dives
 - no night dives made
 - ^{only 1 adult} basker at turtle beach was seen
 - 11/11/00 In the night we arrived ^{watch with scope} at night
 - one juvenile basker, turtle beach; 11/12/00
 - few turtles seen surfacing at Thalassia beds.
 - No turtles seen along seawall ^{East facing note} ^{scoped here}
 - Turtles quickly adapt to wind direction?
 - Turtles seen coming and going to and from direction of main ^{Atoll} channel to the south
 - Inner Harbor exceedingly important for well turtle habitat
 - Cargo Pier/Fuel Pier exceedingly important and surrounding
 - very localized to Midway ^{especially islands}
 - Migrant breeders to F&S & return
 - Importance of Goose-neck barnacles
 - Seawall ^{FROM} importance for juvenile feeding
 - Tumor rate 1 out of 69 examined ^{Biopsies TAKEN}

TRIP 1 =
TRIP 2 =

TRIP 3 =

Growth data - Midway - Mitani analyze

Symposium PAPER

SKM SE - work up

(5)

- Slow growth seen 20-25 years ago has been confirmed by more robust recent findings.
- DNA Genetics - FFS/Hawaiian stock
- 18 year tag recovery recorded ^{TAG NUMBER =} ①
- Migration link TO FFS N-20 MT18 ^{+ ATTACHED photo + FFS + A219}
- Tiger shark predation ^{POY HARGRAVE photo. 11/00 + ATTACHED + inventory}
- Juveniles don't forage on Halophila?
- Adults eat Codium
- BASKING now not eastern (make before models)
- Presence now of Adults - Park present before
- Continued bias of habitat use focused on

SAND IS. / eastern - Inverhabor, Piers, Seawalls

- ^{EAT} MANOWAR - drift / Breath smell? = GOSSE needed (need ID)
- Smallest-to-largest - nearly all size classes, New recruit to Adult
- "A219" from FFS dead at Midway T.W. necropsy + Nancy necropsy
- no loggerheads - through Tiger at base had bone with stomach - cite
- cite WOSTC
- Moto tool 18 ^{4/99 by NANCY} TO FFS TAGS N20, N21 at JMS

Nest Tern recap =

- fewer turtles seen along cup for sand

(16) Sara Peck
Jim Patton

8/00 "Turtle tumors?
seen off kolofo
Scuba" = 808-331-8939

"How slow can they grow"
TSS - "Turtle Starting Stones"

Midway =
5 miles
diameter
A pinnacle in
pelagic water
See

Breath smell - need Aquarium tubing. Delicate seaweed
Jawogget sharp

Still
needed

Collect - Seaweed growth (food)

But Dennis
Russell
Results
should
shed light here

~~Program~~

100' x 5'

11/13/00 Set net in the morning along inner harbor sand,
Monday Scuba ~~TUG Pier~~ / Cargo Pier; MREC sheets
Pehu - 16 ft Boston Whaler, NOAA

Dinner at French Restaurant

11/14/00 Set new 100' x 5' "M12" Monk seal.

Tuesday ~~PM~~ ~~me~~ TUG Pier Scuba - saw Mototool 47

~~me~~ Cargo Pier Scuba - saw FP Mototool 330, MT 27,
MT 13.

~~me~~

(18)

16' velum

Freezer
for Midway, watch
100' x 5' Sea wall

11/15/00 Breakfast 7:45am. Wind up last night.

Wednesday

M26 Monk Seal

white caps - over, seams
of inner harbor

Typical Two turtles went by, but not caught.
Turtles drop off edge of sand bar
either going into ^{Harbor} channel entrance, or,
into Harbor itself.

Regularly
Drove to Cargo pier - only 13, 14, later 20,
for scoop netting. TO opposite harbor side
no turtles seen - rough water.

near Marc, John, Kate, & Jud Seiba under Tug
Pier 3 captures - all new.
Bob - Harbor Master
worked up turtles at boat house.

Drove/walked to Pickett Point / Rusty Bucket -
no turtles seen.

Lecture "Turtle TALK" by Ken 7PM.

"Point turtle"
"Motherload"

Mothers Load

Cargo Pier wall - 730am Marc Seal =
MT 4, 27 & 43

16 Nov. 00

845am MT47 outer seawall
of inner harbor.

Thursday

Sand bar in harbor Seawall
1015am net capture - slide photos
of the action.

P.M. MARC, Watson and some students chartered
Glacier Bay for scuba - drifted in pass - smooth
bottom - didn't go along the edges.

11/16 late pm 415pm to ~ 630pm I stayed
on seawall. Turtle scuba netted by me 515pm

535pm MT43 going out along inner side of seawall -
watched feeding on algae growth on iron.

Lots of turtles seen (up to 10), mainly large,
both going out along seawall, and coming in.

(20)

"TSS" STARTING
TURTLE STONES

Weather
Very calm

MARC =
35 POT
INNER HARBOUR
need
map w/ GPS

Bob Wilson

Marc
10/09
SPINNING
Vide

11/17/00
Friday

Marc & some students out diving this am

Charter on Glacier Bay. (Fish Hole?) Those on

boat not diving says turtle surface nearby.

Qu Watson, Roy Harbington student set "V" 100x5

along Seashell Sand bar. 8am - ~9:30am. no turtles

Large Uluu. Roy scooped one on outer side of seawall

Broke off netting and motored around sea wall w/ net

Net. No whales. When winds, even light winds

blow against wall, turtles seem to accrue

due to jelly fish (man o' war). Saw 3 but

only able to scoop one to the south of

boat ramp. Another under iron wood trees

overhanging at northern ~~inner~~ inner harbor pt

R/C striped
on Pili #21
Red #22
Abbi

In the afternoon we Scubbed Tug boat pier

going from inside outward. "TSS" Mid

also at pier. No turtles seen.

Motored around to Fuel Pier - Marc &

I alone swam under it (not far the

end though). 2 captures.
Then Cargo Pier - one capture

"Can it
be true?
Where there's one
there's two"

11/18/00 Marc saway ^{Moto #} Tool 14 feeding on
goose neck barns on large plastic floats -
Photo'd bites up close. (see p. 173)
Smell of living barns same as ^{"fish"} breath
many of the turtles captured.
Packed and prepared for evening departure.
Drove around with Marc taking photos
Video of birds, Midway, etc.

24

Date: Wed, 21 Feb 2001 09:53:16
From: wayne sentman <mangoman37@hotmail.com>
To: gbalazs@honlab.nmfs.hawaii.edu
Subject: Midway Turtles

*and
paw*

*Reduce
Midway Book*

<html><DIV>
<P>

</P>Dear George, </DIV>
<DIV> </DIV>
<DIV>Thanks for passing on Peter's contact info. I have been crazy busy here as we had a group of
 50+ seabird researchers on island last week. Some really great people. I have just been swam
ped between showing off the island, explaining our work, and trying to prepare to leave this week
that it has taken me a few days to catch up. I appreciate your quick response and the connection.
It was funny that Peter had worked with OSE to set up the monitoring project, I look forward to ta
lking with him.</DIV>
<DIV> </DIV>
<DIV>In regards to the Midway turtles we are seeing, basically this time of year we see an increas
e (my perception) in the number of turtles hauled-out on "Turtle beach" here on Sand. During the f
irst two weeks of Feb we were seeing 3 and 4 drifters hauled out daily, as well as many larger ind
ividuals in the harbor. Interesting to note that our water temp at that time dropped the lowest in
the last few months, 68 degrees! Also last week I saw the biggest female Green I have ever seen he
re in the harbor, unfortunately she was without a number.</DIV>
<DIV> </DIV>
<DIV>Talked with Nancy and she said she had passed on the measurements of a turtle that we r
esighted on Turtle beach, which when we measured had grown about 5 cm. I just wanted to let y
ou know that we noticed this and remeasured the turtle to make sure that at least the recent measu
re was accurate. </DIV>
<DIV> </DIV>
<DIV>Anyhow thanks for your help, and we will be monitoring Greens in Suriname as well if you have
any interest or ideas please let me know. Anticipating some great times in Suriname and will tell
all on my return in May.</DIV>
<DIV> </DIV>
<DIV>Aloha, Wayne</DIV>
<DIV> </DIV>
<DIV>P.S. Thanks for the report passed it on to Cynthia, her e-mail is <A href="mailto:cici55@hotm
ail.com">cici55@hotmail.com</DIV>
<DIV> </DIV><br clear=all><hr>Get your FREE download of MSN Explorer at <a href="http://explo
rer.msh.com">http://explorer.msn.com
</p></html>

Date: Mon, 5 Mar 2001 10:58:55 -1100
From: Nancy Hoffman <nhoffman@midwayisland.net>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Marc- HPA Rice <mrice@hpa.edu>
Subject: Re: 3-4 baskers per day on Turtle Beach?

[The following text is in the "iso-8859-1" character set]
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Hi all! Yes, we do at times have more than one turtle basking on turtle beach. One day last year we had seven! So, we go and check them all out with bino's and see which turtle has numbers and not. If we find a turtle with no number we tag and measure! It is not a daily occurrence, but it does happen pretty often with a couple of turtles and a seal or two. Number 62 was tagged and measured and returned to the same beach in 1.5 days! So much for adverse effect on their psyche! Hope the symposium was good and you are full of new information and ideas! Thanks for the note of support on the turtle project. We will continue on as long as I am here at the refuge, no worries! got to go! later, Nancy

- >
- > Aloha Nancy, I'm just now back from the symposium, Marc went on to
- > another meeting in Boston sure hope he's not snowbound until Spring!
- >
- > I have an email from Wayne Sentman saying that right now 3-4 turtles are
- > a basking daily on Turtle Beach. Wow! If still happening, what a
- > wonderful opporunity for you/us. Go Get Them, Nancy! Tag and measure,
- > Tag and measure, Tag and measure. And saw off the sonics and TDR's if
- > present. OK? How can we help? Aloha, George

Middlebrook Islands Discovered

(From The Polynesian, August 13, 1859)

THE Hawaiian bark *Gambia* having been fitted by her owner, B. F. Snow, Esq., for a sealing and exploring voyage, left Honolulu April 26, under the command of Capt. N. C. Brooks, bound on a cruise among the islands to the westward of this group (Hawaiian Islands). After an absence of about eight and a half months, she returned on Sunday last, August 7, and we are pleased to learn that her voyage was entirely successful. * * *

The *Gambia* visited Necker Island, French Frigate Group, Maro Reef, Laysan, Lisiansky, the Pearl and Hermes Group and Ocean Island; passed over Long's Shoals (the discovery of which was noticed in our issue of March 19), and a shoal thirty miles West by North from French Frigate Group. About forty miles to the northward and westward of the Pearl and Hermes Group, discovered a shoal not laid down on the charts. In Latitude 28 degrees, sixteen minutes, North, Longitude 177 degrees twelve minutes West, discovered an extensive reef, enclosing two islands and a number of islets and rocks. If either of the islands or reefs on the charts is intended for this, the calculation is very erroneous, and as there is none laid down in that position, this was considered a new discovery, and the group received the name of Middlebrook Islands. * * *

Having completed a general outline of the cruise, we will now give the results of Capt. Brooks' surveys of the various islands and shoals, together with such information in regard to each as may be useful or interesting. * * *

Middlebrook Islands and Shoal * * * were discovered on the 5th of July last, by Capt. Brooks, of the *Gambia*. There are two islands, from four to five miles long, two and a half miles wide, and forty feet high, one of which is entirely barren, while the other is covered with vegetation. Besides these there is a small island. The whole are encircled by a reef of about forty miles circuit, covered with heavy breakers, outside of which there is good anchorage in from nine to twelve fathoms water. Inside the reef is a very smooth lagoon, where a vessel may approach within a sailing distance of the beach with perfect safety; but the best anchorage is about half a mile from shore, in four or five fathoms water. The entrance to the lagoon is on the west side, but the reef may be approached boldly from any

direction, there being no danger beyond the line of heavy breakers.

Inside the reef, on the north and south sides, and about a cable's length from the line of breakers, there is a natural sea wall four feet high, perfectly level and wide enough for a carriage way. On the west side of one of the islands lies an old trunk of a redwood tree, five feet in diameter. There are, also, the remains of what was probably a raft, which must have drifted to the island years ago, there being no indication of any person ever having been there before. An extensive deposit of *guano* was found on one of the islands. possession was taken of the group and notices left to that effect. Dug a well and found good water at a depth of ten feet. At the distance of a cable's length West by South from the well, erected a thirty foot flag-staff. The waters of the lagoon abound with fish and turtle of superior quality; birds are numerous—in fact there appears to be millions of them in the neighborhood, and the islands are so covered with eggs and young birds that it is difficult to walk without treading on them.

With the exception only of Honolulu, these islands possess advantages for a coaling depot superior to any other place on the line from California to China. * * *

KE ALOHA MAU LOA

(Love and Devotion)

By ROSE COMPTON DAVISON

E Ke aloha mau loa

Love and devotion

Lia wau ia oe

I dream of thee

I ka hola o ke ahiahi

In the hours of twilight

Ahi loko ua anoano

When all is still

Mai hoopoina oe i ka nani

Do not forget

I ka pua o ka lanalana.

The langlang flower.

Lana oe nei kamanao

Fond memories arise

I ka wai o Hiilawe

For the Waterfall of Hiilawe.

Paradise of the Pacific
p. 23

October, 1936
OCT. 1936

48(10)
PARADISE OF THE PACIFIC

26

Date: Fri, 2 Mar 2001 17:05:03 -1100
 From: Nancy Hoffman <nhoffman@midwayisland.net>
 To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>,
 Ron <ranglin@midwayisland.net>,
 Ken Niethammer <kniethammer@midwayisland.net>,
 Rob Shallenberger <Robert_J_Shallenberger@rl.fws.gov>,
 Marc- HPA Rice <mrice@hpa.edu>
 Subject: Re: Another follow-up report on sea turtle studies at Midway

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

George, thanks for the note. I saw the difference in the measurements after we measured the turtle this last time on the beach. We re-measured the carapace and our measurement was the same. SO, this time I know the measurement was right-on. I only hope the first measurement last year was correct! Thank you for your encouragement. later, Nancy

Bob

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

From: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
 To: Ron <ranglin@midwayisland.net>; Ken Niethammer
 <kniethammer@midwayisland.net>; Nancy Hoffman <nhoffman@midwayisland.net>;
 Rob Shallenberger <Robert_J_Shallenberger@rl.fws.gov>; Marc- HPA Rice
 <mrice@hpa.edu>
 Sent: Monday, February 12, 2001 14:22
 Subject: Re: Another follow-up report on sea turtle studies at Midway

MIE

- >
- > In my last message I summarized the recapture of a 54.9 cm turtle we
- > tagged 21.8 years at Midway that exhibited a pitifully slow rate of
- > growth. As an exciting follow-up, I report now a very recent recovery,
- > again by Nancy and Team, demonstrating accelerated growth of a near-adult
- > 80.3 cm individual.
- >
- > The turtle was PIT tagged and measured on 4/29/99 and assigned MotoTool 22
- > while basking on Turtle Beach. The straight carapace length at that time
- > was 80.3 cm. 21 months later, on 1/17/01, the turtle was again seen
- > napping on Turtle Beach and remeasured as 85.3 cm. The increase of 5.0 cm
- > equates to about 2.8 cm/yr, an exceeding Rapid Rate, in contrast to the
- > data sent in my last message. And, especially, for such a large turtle,
- > for which most of the published information suggests a considerable
- > slowing of the growth process. Obvious this turtle doesn't fit the
- > "mold," or the mold is wrong in certain cases and new ground is being
- > uncovered at Midway.
- >
- > Please encourage Nancy to continue devoting her time to turtles- she's
- > clearly on a Winning Streak and I'm eager to see what she turns up next!
- > Aloha, George
- >

(36)

N = 29

SCL

Range 39.7 - 91.9 cm

N = 25

Weight

Range 17 - 165

(49) 4 ADULTS
(109) 3 SUBADULTS
(76) 2 JUVENILE

<u>SCL</u>	<u>WT.</u>	<u>SCL</u>	<u>WT.</u>
49.4 J	32	86.2 Adult	NT
45.7 J	25	50.1 J	3
45.5 J	23	44.4 J	2
48.3 J	33	38.0 J	1
41.6 J	19	38.6 J	1
44.8 J	26	50.4 J	3
83.1 Adult	NT	58.0 J	5
41.1 J	21	77.2 SUB	14
44.9 J	28		
43.4 J	25		
83.4 Adult	NT		
39.7 J	16		
45.1 J	28		
91.9 Adult	NT		
40.6 J	18		
39.7 J	18		
53.2 J	56		
74.7 SUB	110		
61.9 J	71		
77.3 SUB	111		
48.2 J	32		

next is #62

Mototool Numbers Applied =

START - Mototool #43

end - Mototool #61

43, 44, 45, 46, 47, 48, 49, 50,
51, 52, 53, 54, 55, 56, 57, 58,
59, 60, 61 19 new mototools
+ new shark bite
not mototooled
+ 9 Recoveries
redone mototool

conclusions -

- Mototool turtles that do some growing lose their marks sooner than non-growers/slow growers.

TITLE

"Green Turtle Foraging & Resting Habitats at Midway Atoll: Significant Findings over 25 years, 1975-2000"

could AUCS ...
+ ...
...

(36)

ⓧ Moto ^{New} tool #43

CAPTURE DATE, LOCATION AND METHOD:

11-12-08 Sunday Midway Sand IS, Bash Turtle - Noon beach

PERSON RECORDING DATA: Arjun Clary

OLD TAGS:

Empty boxes for old tags

NEW TAGS: RFL

LH
RH
LFL

413E3A4763



4135321942



TUMOR SCORE

0

OTHER NEW TAGS:

Empty boxes for other new tags

STRAIGHT CARAPACE-LENGTH:

49.4 cm

WIDTH:

39.5 cm

NOTCH LENGTH:

49.4 cm

DB:

L.O.

VB:

11.5 cm L.O.

CURVED CARAPACE LENGTH:

52.5 cm

WIDTH:

46.5 cm

collected

HEAD WIDTH:

7.7 cm

SEX:

MALE, FEMALE OR UNDETERMINED

Empty box for sex

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T 10.5 cm

C

7.0 cm

RIGHT FRONT FLIPPER WIDTH:

8.0 cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

40.3 cm

WEIGHT:

32 lbs.

DESCRIPTIVE REMARKS:

multiple bumps - soft palate Blood Dots & DNA Bio
axial: 17.9 cm, lateral 17.7 cm - PLASTRON - a little flat
disk photo #1 - right eye, #2 left eye; 35mm print photo #1 - full body



REYEMIDWIIΦΦMT43 ✓ REYEMIDWIIΦΦMT43

43LT	EXC	HI	Left eye normal. Zero concerns.	NORMAL
43RT	AVE	MED	I'd classify right eye as having a lump but because the corneal edge is sweet and flat and there's no white veining anywhere this honu's ok. But should be watched the next year. In our database when I see something like this I write "something gray posterior" and that's it.	"something gray posterior"

Handwritten notes at the bottom of the page, including "43LT" and "43RT".

CAPTURE DATE, LOCATION AND METHOD:

② Mototool # ~~14~~ 14 (recap)

11-12-00 Midway Scoop net Sand Is. 1230pm
PERSON RECORDING DATA: Arjun Cargo Pier Sea Wall

OLD TAGS: ~~RFL~~ 20071E2219
LFF ~~IF~~ 70031D51
LHF
TUMOR SCORE

NEW TAGS: RFL
LFL
OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: ~~45.7~~ 45.7 WIDTH: 35.6

NOTCH LENGTH: 45.5 DB: L.O. VB: L.

CURVED CARAPACE LENGTH: 48 WIDTH: 41

HEAD WIDTH: 7.6 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 9.5 C 6

RIGHT FRONT FLIPPER WIDTH: 7.4 SAMPLES COLLECT

PLASTRON LENGTH: 37.4

WEIGHT: 25 lbs.

DESCRIPTIVE REMARKS: Redid Mototool numbers 14

Blood dots
Plastron a little flat axial: 16.0^{cm} lateral: 16.1 cm
Soft palate
3 bumps in mouth
R eye Disk photo #3; left eye #4 print photo #2 - full body

Agged by
 Nancy Hoffmann
 4-4-99
 SCL = 45.5 cm
 CCL = 47.0
 WT



✓ REYE MIDWINTER 14

✓ LEYE MT 14



14LT	POOR	LO	Connective tissue has no detail. What there is of it appears normal.	NORMAL
14RT	AVE	MED	Shine off the posterior but no hint of warping, white veining so likely no problems	NORMAL

Handwritten notes at the bottom of the page, including "DNA" and "14LT" and "14RT" and "POOR" and "AVE" and "MED" and "NORMAL".

CAPTURE DATE, LOCATION AND METHOD:

(3) ^{new} MOTO # 44

11-12-00

scoop net in 1230 PM cargo pier wall

Midway Sand Is.

PERSON RECORDING DATA:

Agun

OLD TAGS:

NEW TAGS:

~~RF~~ AH
~~RF~~ LH

4136332938

407A45387B

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

45.5

WIDTH:

36.5

NOTCH LENGTH:

44.3

DB:

L.O.

VB:

1.1cm L.

CURVED CARAPACE LENGTH:

48

WIDTH:

42.5

HEAD WIDTH:

7.0

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T 8

C

5.5

RIGHT FRONT FLIPPER WIDTH:

7.0

SAMPLES COLLECTED:

PLASTRON LENGTH:

36.0

WEIGHT:

23 lbs.

DESCRIPTIVE REMARKS:

left PC broken and healed.

1.7 lig.

1 bump in mouth
Soft palate

axial: 16.1^{cm}

lateral: 15.7^{cm} - a little flat
plastron

Blood dot + DNA

print photo #3 - lateral view, #4 full body

disk photo 5-R eye, 6-eye

Pic Conf Comments

44LT	POOR	LOW	Connective tissue is pulled back and there's a shadow as a result. But this eye looks fine	NORMAL
44RT	POOR	LOW	This eye has either a flash glare or sun glare right where I need to see. Can't call this eye	UNABLE ASSESS



✓ REYE... MT44 ✓ LEYE... MT44 ✓

Subject: Re: Midway Mototool 44

LEyeMidw1100Mt441.jpg

Connective tissue is pulled back and there's a shadow as a result.. But this eye looks fine.

REyeMidw1100Mt441.jpg

This eye has either a flash glare or sun glare right where I need to see. Can't call this eye.

So I can't call this turtle.

CAPTURE DATE, LOCATION AND METHOD: (4) ~~Midway Sand IS.~~

CA
F
OI

11-12-00 scoop net ~1230 pm cargo pier seawall Midway Sand IS.
PERSON RECORDING DATA: Arjun

OLD TAGS: LH 4112670A23 NEW TAGS: RFL
LFF 414912040E LFL
TUMOR SCORE: 0 OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 48.3 WIDTH: 39.6

NOTCH LENGTH: 47.5 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 51 WIDTH: 45

HEAD WIDTH: 8.1 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Y

TAIL LENGTH: T 10.5 C 7

RIGHT FRONT FLIPPER WIDTH: 8.9 SAMPLES COLLECTED:

PLASTRON LENGTH: 8.4

WEIGHT: 33 lbs.

20LT	AVE	MED	I can't see the detail in the connective tissue but it looks normal especially along that corneal edge	NORMAL
20RT	AVE	MED	Posterior very back looks a tad lumpy but no white like a tumour threatening and nothing to suggest any other possibility	NORMAL

DESCRIPTIVE REMARKS:
 tip LFF, RFF ^{MISSING} + healed
 not trace of Moto, redone ^{abnormal erosion to notch}
 lateral: 17.3 cm axial: 18.7 cm ^{MOTO duplicate}
 #7 engraved bump in mouth ^{blood dots}
 #8 left eye; #9 right eye; print photo #4 full body ^{soft palate}
 print photo 1-11

10-18-98
SCL 46.7
CCL-49.0
WT 31



LEYE...MT"20"

LEYE R.... MT"20"

REYE.... MT"20"



Subject: Re: Midway Mototoool 20

<file://c:\howzit\attach\LEye2Midw1100Mt201.jpg>LEye2Midw1100Mt201.jpg<
file://c:\howzit\attach\LEye2Midw1100Mt201.jpg>

<file://c:\howzit\attach\LEyeMidw1100Mt201.jpg>
LEyeMidw1100Mt201.jpg<file://c:\howzit\attach\LEyeMidw1100Mt201.jpg>

I can't see the detail in the connective tissue but it looks normal especially along that corneal edge.

<file://c:\howzit\attach\REyeMidw1100Mt201.jpg>REyeMidw1100Mt201.jpg<
file://c:\howzit\attach\REyeMidw1100Mt201.jpg>

posterior right eye looks good.

I'd call this honu just fine.

CAPTURE DATE, LOCATION AND METHOD: (5)

END DAY 2

Scop net cargo pier seawall
11-12-00 Sunday 12:30pm
Midway Sand IS,
PERSON RECORDING DATA: Dylan

OLD TAGS: ⁴⁴ 411D677877 NEW TAGS: RFL
~~44 411D677~~ LFL
TUMOR SCORE LF 411F1C507B OTHER NEW TAGS:
0

^{40.6} STRAIGHT CARAPACE-LENGTH: 41.6 WIDTH: 34.5
^{7.6}

^{40.4} NOTCH LENGTH: 41.4 DB: L.O. VB: L

CURVED CARAPACE LENGTH: 44.5 WIDTH: 40.5

HEAD WIDTH: 6.9 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE NO

TAIL LENGTH: T 7.5 C 5

RIGHT FRONT FLIPPER WIDTH: 6.9 SAMPLES COLLECT

PLASTRON LENGTH: 33.2

WEIGHT: 19 lbs



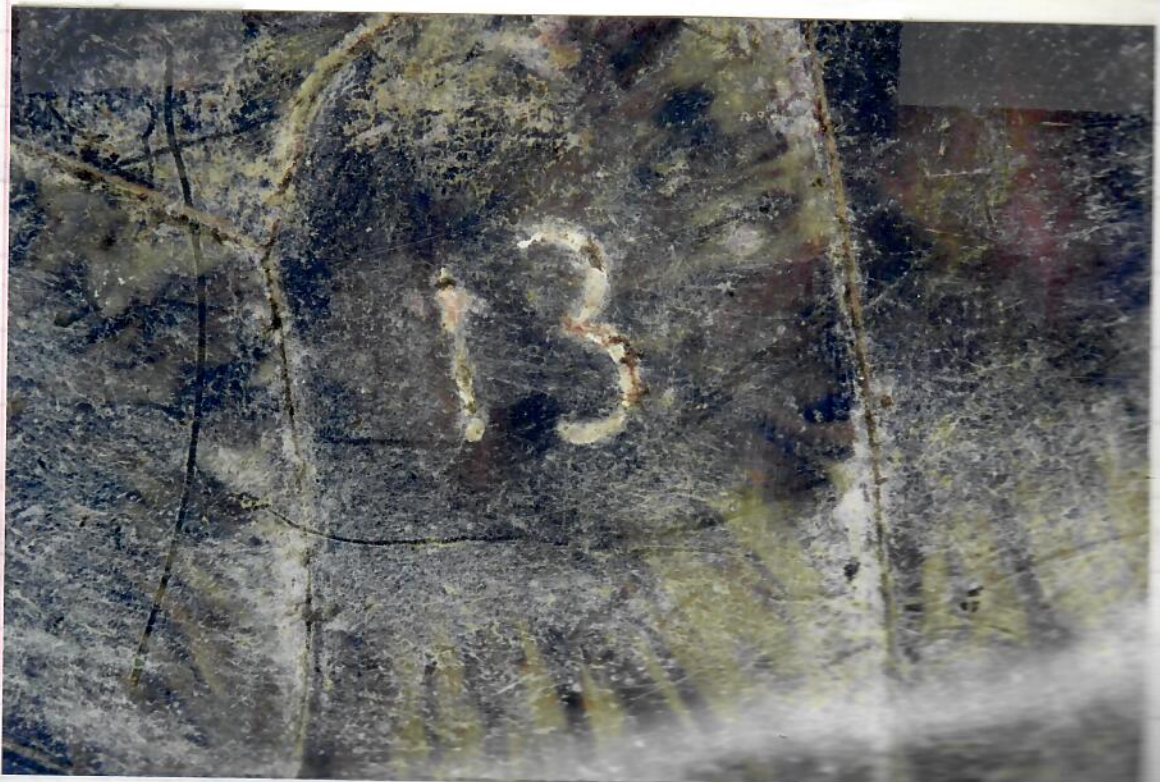
DESCRIPTIVE REMARKS:

Moto Tool #13 Moto Redan REYE.....MT13 LEYE.....MT13
Photo #6 of Moto Tool #13 Photo #7 - Full Body
Axial - 15.4 Lateral - 15.4
Digital Photo #9 right eye / #10 left eye

5-27-99
4017 gcl
CCL-4415

u

HONU	PIC	CONF	COMMENTS	CALL
13LT	EXC	HI	Connective tissue looks flawless	NORMAL
13RT	EXC	HI	Shot at wrong angle but I can see enough to not see anything worrisome there. Td give this eye a cautious ok	NORMAL



CAPTURE DATE, LOCATION AND METHOD: (6)

11-12-00 Sunday scoop net 12:30 pm Midway cargo pier Sand IS

PERSON RECORDING DATA: Dylan

OLD TAGS: RH 4136201E57
TUMOR SCORE: LH 4135330A3F
0

NEW TAGS: RFL
LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 44.8 WIDTH: 37.7

NOTCH LENGTH: 44.4 DB: L.O. VB: L

CURVED CARAPACE LENGTH: 47 WIDTH: 42.5

HEAD WIDTH: 7.4 SEX: MALE, FEM UNDETERM.

PPS: YES OR NO OR NE NO

TAIL LENGTH: T 9.5 C 6.5

RIGHT FRONT FLIPPER WIDTH: 8.2

PLASTRON LENGTH: 35.9

WEIGHT: 26 lbs

DESCRIPTIVE REMARKS:

Existing Moto Tool #27 - Axial - 16.9 Lateral - 16.9

PCA on Carapace growing in Moto Tool #27

#27 Moto Tools redone. PLASTRON A - Little Flat

Digital Photo #11 right eye, #12 left eye Full Body Picture #9



EYE... MT27



EYE... MT27

SAMPLES COLLECT

9/23/99
SCL / 44.5
CCl = 47.5



CAPTURE DATE, LOCATION AND METHOD: (7) Day 2 START

11/13/00 Monday Net, inner side of harbor seawall
1130 pm

PERSON RECORDING DATA: Arjun

OLD TAGS:

NEW TAGS:

41363F315B



LH

TUMOR SCORE

0

413E2D6650



RH

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

83.1

WIDTH:

66.4

NOTCH LENGTH:

82.5

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

88.5

WIDTH:

81.5

HEAD WIDTH:

12.6

SEX: MALE, FEMALE OR UNDETERMINED

F

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

T

26.5

C

18.5

RIGHT FRONT FLIPPER WIDTH:

14.5

SAMPLES COLLECTED:

PLASTRON LENGTH:

67.3

blood clot + DNA

WEIGHT:

NT



DESCRIPTIVE REMARKS:

REYED MT45 ✓
 leech eggs on RFL, LFF ventral, ventral neck, left jaw
 ↳ scrape & off - collected + frozen
 digital photo 13, 14, 15 - left eye 16, 17 - right eye slide film 19, 20
 new Moro # 45 first central + first lateral left healed cuts



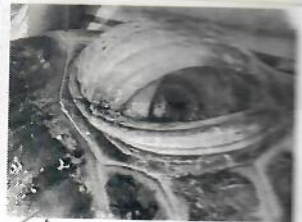
✓ REYE... MT45 ✓

45LT	EXC	HI	White of FP threatening. Looks to be two #1's working near corneal edge. White veining begun and so have tissue warping	UNABLE TO ASSESS
45RT	AVE	LOW	Angle shot wrong. Needed angle towards posterior. Lump appears posterior but can't make it out.	UNABLE TO ASSESS



Different Haplotype?

LEYE... MT45



LEYE2... MT45 / LEYE3... MT45

Subject: Midway Honu45

LEyeMidw1100Mt45.jpg isn't all that good for telling much of anything. I think you knew that because you then photo'd the eye two more times.

LEye3Midw1100Mt45.jpg and LEye2Midw1100Mt45.jpg are excellent and show an abnormality that I would say is FP coming in. And I'm as certain as I can get on that based on this photograph. Looks to be two tumours threatening near the corneal edge.

REye2Midw1100Mt45.jpg --the angle's wrong. I need to see the posterior and this is shot from the front. So even though this looks like an obvious lump I'm not prepared to say much about it.

But put together with the left eye "veining" this honu'd get an "FP suspected"

And now remember I don't get to see the whole body here --but I'd say it's FP incoming.

CAPTURE DATE, LOCATION AND METHOD: 8

MT 46

11-13-00 Scoop Net outside
INNER HARBOR seawall

PERSON RECORDING DATA: Jilly

OLD TAGS:

NEW TAGS: REA

4135090963



TUMOR SCORE

0

OTHER NEW TAGS:

LELH
LRA

41363E6766



STRAIGHT CARAPACE-LENGTH:

41.1

WIDTH:

34.4

NOTCH LENGTH:

40.5

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

43.5

WIDTH:

40

HEAD WIDTH:

7.2

SEX: MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

yes

TAIL LENGTH:

T 8

C

5

RIGHT FRONT FLIPPER WIDTH:

7.2

SAMPLES COLLECTED:

PLASTRON LENGTH:

31.6

WEIGHT:

21 lbs

DESCRIPTIVE REMARKS:

Axial = 16.2 cm

lateral 15.7 cm

1.0 lig

Met # 46

Arj 19
Katie - 20

19-10- left eye digital
20- right " "

Print Photo # 21

Pit insertions



LEYE..... MTH6 ✓ R EYE..... MTH6

46LT	AVE	MED	Can't make out detail but connective tissue looks ok	NORMAL
46RT	AVE	LOW	Flash/sun something white going posterior making it difficult to assess but looks ok	NORMAL

STARTING this turtle - PPS defined different 19 print film
 CAPTURE DATE, LOCATION AND METHOD: see digital and print 1

11-13-00 Scoop net inner harbor outer side sea wall 9
 PERSON RECORDING DATA: Jilly Quintance

OLD TAGS: None
 TUMOR SCORE
0

NEW TAGS: LH RFL RH LFL
413E2D0127

41362B3D67
 OTHER NEW TAGS:

Moto Tool #47
 STRAIGHT CARAPACE-LENGTH: 44.9 WIDTH: 36.9

LENGTH: 44.6 DB: L.O. VB: (2cm) L.O.
 CARAPACE LENGTH: 48 WIDTH: ~~44.5~~

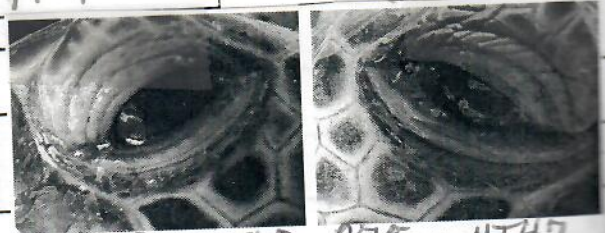
WIDTH: 7.9 SEX: MALE, FEMALE OR UNDETERMINED collected

YES OR NO OR NE Yes
 LENGTH: T 10 C 6.5
 FRONT FLIPPER WIDTH: 7.9 SAMPLES COLLECTED:

ON LENGTH: 36.7
28 lbs
 47LT : 28 lbs

DESCRIPTIVE REMARKS:

Axial - 18.9cm Disc#2 - 2-left eye / Thick Scutes
 Lateral - 18.5cm Disc#2 - 3-right eye Abnormal Count
 - Only 5 blood dots / ~~MAI~~⁺ DNA 5 Laterals on Left
Moto Tool #47 Print Full Body Photo #20 on 19



NORMAL	Connective tissue looks flawless
NORMAL (with reservations)	There's white at the very back but no detail so I can tell whether it's just normal sloughing or maybe very early eruption the back
HIGH	
LOW	
EXC	
FAIR	
47LT	
47RT	



Note - integral ^{somewhat} rigid part of plastron



C. CAPTURE DATE, LOCATION AND METHOD: (10)

11-13-00 Sleep net
inner harbor - outer inner sea wall

PERSON RECORDING DATA: Dylan

OLD TAGS:
LFF 4104227317
LH 4104134854
TUMOR SCORE
0

NEW TAGS: R
L
OTHER NEW TAGS:



VBARSMIDW1108MT16

STRAIGHT CARAPACE-LENGTH: 43.4

WIDTH: 35.9

NOTCH LENGTH: 43.2

DB: L.O.

VB: off 4 L.O.

CURVED CARAPACE LENGTH: 46

WIDTH: 40.5

HEAD WIDTH: 7.3

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Yes

TAIL LENGTH: T 8.5

C 6

RIGHT FRONT FLIPPER WIDTH: 7.7

SAMPLES COLLECTED:

PLASTRON LENGTH: 34.9

WEIGHT: 25 lbs

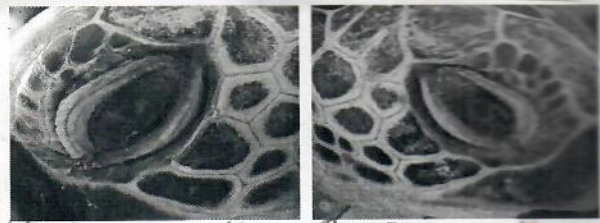
2nd DNA

DESCRIPTIVE REMARKS:

4 preserved in Alcohol
3.3, 2.9, 3.5, 3.0 cm
2 bumps in Mouth
BLOOD DOT TAKEN
- Digital Disc #2 - Plastron / Barnacles Photo #3 Axial: 17.5 cm
- Old Moto Tool #16 - Redone Moto Tool Lateral: 17.1 cm
- Print Photo #20 / Digital Photo Disc #2 - #5 left / #6 right

Full Body

10-16-98
 SST = 42.5
 CCL = 44.5
 WT = 20 lbs



LEYE MT16 ✓ R EYE MT16



16LT	EXC	HI	Connective tissue looks flawless	NORMAL
16RT	GOOD	HI	Connective tissue looks	NORMAL

[Faint handwritten notes and markings, including '16LT', '16RT', and 'SST = 42.5', are visible at the bottom of the page.]

CAPTURE DATE, LOCATION AND METHOD: (11)

11/13/00

SWISS

hand capture @ Largo Bay Pier

PERSON RECORDING DATA: Jilly

~3PM

OLD TAGS: 41407759759

NEW TAGS: RFL

4148673632

LFL

TUMOR SCORE

1

OTHER NEW TAGS:

OLD NOTED 33

STRAIGHT CARAPACE-LENGTH:

83.4

WIDTH:

63.0



REF: ... MT 33 / REF: ... MT 33

83.4

DB:

L.O.

VB:

L.O.

LENGTH:

89.5

WIDTH:

88.0

11.7

SEX: MALE, FEMALE OR UNDETERMINED

1

OR NE

yes

T

37

C

28

LIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH:

67.1

1#1 from ...

1#1 from right side

WEIGHT:

NT

the tumors were cut in

DESCRIPTIVE REMARKS:

1#1 5cm from RFL

cloaca 1 number #1

left eye 2#1's

right eye 2#1's

1#1 right shoulder

I to be frozen I put in formalin

Blood dots, DNA tube

RTH - 1#2 multi-tube

#89 - dental of jaw bridge

#101 - dental of left eye

(1 is ridge lower eyelid)

12,13 - right eye

Digital

photo #33

removed 1/2 frozen 1/2 frozen

"99-10-8"
 SCL 83.3
 CCL-88.5cm



33LT	EXC	HIGH	Intresting is the extent of the tumour when you really force the exposure. Works right to corneal edge. But didn't erupt from there.	FP
33RT	EXC	HIGH	No anterior involvement. Hot tumour	FP



CAPTURE DATE, LOCATION AND METHOD:

(12)

MT 48

CAE

11-13-00

SLUBA hand capture

Monday

at Cargo Bay Pier ~ 3PM

Midway

Sand IS.

PERSON RECORDING DATA: Jilly

P

OLD TAGS:

none

NEW TAGS:

RFL

41356E0318

LH



LFE

RH

4135282A74



OL

TUMOR SCORE

0

OTHER NEW TAGS:

S

STRAIGHT CARAPACE-LENGTH:

39.7

WIDTH:

33.1

N

NOTCH LENGTH:

38.9

DB:

L.O.

VB:

L.O.

C

CURVED CARAPACE LENGTH:

41.5

WIDTH:

37

HEAD WIDTH:

6.6

SEX:

MALE, FEMALE OR UNDETERMINED

U

PPS: YES OR NO OR NE

yes according to Ray

TAIL LENGTH:

T 7

c

4.5

RIGHT FRONT FLIPPER WIDTH:

6.9

SAMPLES COLLECTED:

PLASTRON LENGTH:

31.7

Blood dots
swd DNA

WEIGHT:

16 lbs

DESCRIPTIVE REMARKS:

very little + cute

light 0.5

Axial-14.3cm

Lateral-13.6cm

a little flat.

Disk 2

digital dict

#614 - R eye

#15 - L eye

~~photo~~

photo: 48

PRINT photo - full body =

CAPTURE DATE, LOCATION AND METHOD: (14)

See page 200 / 115
Person

11/14/00 Net inside of Harbor
inner small
830am
PERSON RECORDING DATA: Dylan MT 18

OLD TAGS: RH 413B26476C NEW TAGS: RFL
LH 414B005762 LFL
TUMOR SCORE LFL 21 OTHER NEW TAGS:
RFL N20

STRAIGHT CARAPACE-LENGTH: 91.9 WIDTH: 72

NOTCH LENGTH: 91.9 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 97 WIDTH: 90

HEAD WIDTH: 12.9 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE Yes

TAIL LENGTH: T 23 C 16.5

RIGHT FRONT FLIPPER WIDTH: 13.7 SAMPLES COLLECTED:

PLASTRON LENGTH: 73 Blood dot gland DNA

WEIGHT: —

DESCRIPTIVE REMARKS:

Digital Photo Disc #2 = #18 left eye / #20 right eye
LFL Tag Photos #15, 16 - Print Film #19 left eye
Photo Tool #18 Redone Full Body Print # IN
Brownish carapace w/ black speckles Bost Wh

4/12/99 - Nato Foot
 Recup - marked
 Nam Nancy
 SCL = 91.5
 CCL = 97.0

3/19/97
 N21 N20
 TURTLE
 BEACH -
 BASKING
 ROB
 CCL = 95.0 cm

6/99 see p 200⁶⁵
 Term FT3
 Nesting
 Vanessa + Julie



Different
 Haplotype?



LEYE ... MT18 LEYE2 ... MT18

18LT	GOOD	MED	Angle is a tad wrong and I don't get to see posterior detail but if I have to call this I'd say this eye's had a tumour in it. See corner of eye. Several of our regression cases have that "potato".	POSSIBLE REGRESSION
18RT	GOOD	MED	Good shot bad angle. But again, the corner has a "potato" (very small one) and the lower lid looks pushed back a tad like a tumour moved it away from eyeball and then retreated. That's my call anyway (HUGE disadvantage though because I can't see the posterior!)	POSSIBLE REGRESSION

CAPTURE DATE, LOCATION AND METHOD:

11-14-00 ~~TUESDAY~~ Scoopnet Harbor MT 50
 inner southside
 PERSON RECORDING DATA: ^{KT} KH 1145am

OLD TAGS: [] NEW TAGS: LHF 413E330054
 TUMOR SCORE: [] RHF 413578465F
 OTHER NEW TAGS: []

STRAIGHT CARAPACE-LENGTH: 40.6 WIDTH: 34.8

NOTCH LENGTH: 40.0 DB: [] L.O. VB: [] L.O.

CURVED CARAPACE LENGTH: 43 WIDTH: 40

HEAD WIDTH: 6.5 SEX: MALE, FEMALE OR UNDETERMINED U

PPS: YES OR NO OR NE N

TAIL LENGTH: T 7.5 C 4.5

RIGHT FRONT FLIPPER WIDTH: 6.9 SAMPLES COLLECTED:

PLASTRON LENGTH: 32.2

WEIGHT: 18 lbs. Blood dots + DNA

DESCRIPTIVE REMARKS:

axial 15.3cm mototooled #50
 Lateral 15.3 Lig - 1cc
 Photo S D3 full body pic. - #20 - print
 Left #12
 Right #3



LEYE MTSO/LEyed MTSO/REYE MTSO

Photo CONF

50LT	EXC	HIGH	Tissue normal -no problems. The white at the corner is that stuff they slough off and he's sure sloughing a lot!	NORMAL
50RT	POOR	LOW	Eye shadowed and no amount of over-exposure brings out detail. Nothing obvious white so...	NORMAL

CAPTURE DATE, LOCATION AND METHOD: 16

11-14-00 Hand Scuba Inner Harbor (Feeding on 2:00pm North)

PERSON RECORDING DATA: Dylan

OLD TAGS:

TUMOR SCORE:
0

NEW TAGS: RH 413640050E
REL
LFL
LH 4135796E0E
OTHER NEW TAGS:

Moto Tool #51
STRAIGHT CARAPACE-LENGTH: 39.7 WIDTH: 33.6

NOTCH LENGTH: 39.1 DB: L.O. VB:

CURVED CARAPACE LENGTH: 42.5 WIDTH: 39

HEAD WIDTH: 6.9 SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE NO

TAIL LENGTH: T 7.5 C 5

RIGHT FRONT FLIPPER WIDTH: 7.1 SAMPLES COLLECTED:

PLASTRON LENGTH: 32

WEIGHT: 18 lbs

DESCRIPTIVE REMARKS:

Small Anterior Plastron Gash 3 Bumps in Soft Palate
1.0 LIQ Algae Mouth Sample / Leeches Frozen
Digital Photo Disc #3 / #3 left eye #4 right eye
Axial: 15.2 cm Lateral: 14.6 cm Print Film #20

11-14-00 Midway Atoll, #4135796E0E, MT #51, mouth sample

Spyridia filamentosa All

11-16-00 Midway Atoll, #414B682450, MT #56, stomach flush

Halophila hawaiiiana 95%
Spyridia filamentosa 3
Zonaria sp. 2
Hypnea sp. 1
Centroceros clavulatum Trace
Cladophora sp. Trace
Sargassum sp. Trace
 1 micromollusc snail
 1 amphipod



✓ EYE MT 51



✓ EYE MT 5

state
12.

5ILT	GOOD	HIGH	Posterior has a problem. That white showing right at the corneal edge. With a pinprick of white dead center where the hotspot is.	FP VULNERABLE
5IRT	AVE	LOW	Too far away and a bit soft focus. Can't make out details of posterior. But. As with left eye there appears white playing through the corneal edge (as good as I can tell from this)	"something happening posterior"

CAPTURE DATE, LOCATION AND METHOD: (17)

TUESDAY 1/14/00 Hand Scuba under Tug Pier

PERSON RECORDING DATA: Dylan

OLD TAGS: IF 71572178 NEW TAGS: RFL
TUMOR SCORE 0 RH IF 60676020 - D2φ LFL
OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 53.02 WIDTH: 45.2

NOTCH LENGTH: ~~NT~~ DB: L.O. VB: 71

CURVED CARAPACE LENGTH: 58.5 WIDTH: 53

HEAD WIDTH: 9.1 SEX: MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE Yes

TAIL LENGTH: T 14 C 9.5

RIGHT FRONT FLIPPER WIDTH: 10.2 SAMPLES COLLECTED

PLASTRON LENGTH: 46.5

WEIGHT: 56 lbs

DESCRIPTIVE REMARKS: Axial: 22.0 Lateral: 22.2 cm
Print Film # 21 Digital # 9 Old + New Moto Tool # 15

Digital Photo # 5 Disc # 3 Ventral / Photo # 67 left eye / 2 gross
SKIN BURNS and VB Chelonibia collected into Alcohol
Old Mototools # 15 unreadable - just peeled spots. New # 15 2nd lot L&R

10-18-98
 SCL=47.6
 CCL 52.0
 WT=43165

4-4-99
 SCL=48.0
 CCL=51.5

FAST
 Grewse!



REYE MTSN V BARMIDW II P P M T₁₅ ✓ LEYE M T 15 ✓ LEYE₂ ... M T 15

15LT	EXC	HI	Posterior looks fine	NORMAL
15RT	EXC	HI	Posterior looks fine. EXCEPT. There's the slightest hint of white at the corneal edge. No way I'd call it anything other, I don't like seeing ANY white/pink there.	NORMAL

11-14-00 Midway Atoll, #1F6D676D20, MT #15, mouth sample

Hypnea nidifica
Dictyota crenulata

Trace
 Trace

CAPTURE DATE, LOCATION AND METHOD: 18

11-14-00
TUESDAY Hand Scuba Cargy Pier

End Day 3

PERSON RECORDING DATA: Dylan

OLD TAGS:

TUMOR SCORE

0

No No to Tool APPLIED

NEW TAGS: RFL
RH
LFL
LH

4136053C6F



4136134509



OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 77.7

WIDTH: 60.3

NOTCH LENGTH: 77.6

DB: L.O.

VB:

CURVED CARAPACE LENGTH: 81.5

WIDTH: 77

HEAD WIDTH: 10.2

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE NO

TAIL LENGTH: T 14.5

C 10

RIGHT FRONT FLIPPER WIDTH: 11.7

SAMPLES COLLECTED

PLASTRON LENGTH: 59.2

Blood Dets.

WEIGHT: 110.16

DESCRIPTIVE REMARKS: Estimated from overspilling of scale

Digital Photo Disc #3 - *10 left eye *11 right eye

Curvilinear
Plastron Curvilinear Slashes Bone Deep Healing 25cm width

Print Photo #22, 23, 24 ZILIA (overdose intentional)

Carapace Left Side: 16x14cm Right Side: 26x12cm Injured areas bone deep from multiple slashes



See
also
page
123
eyes
etc.



PHOTOS: TRACY PC 1/14/00

CAPTURE DATE, LOCATION AND METHOD: (19)

11-15-00 Hand Scuba under Tug Pier Midway Grand Is. 12:30 PM

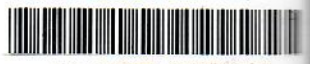
PERSON RECORDING DATA: Dylan

4136012807

OLD TAGS:

Four empty rectangular boxes for old tags.

NEW TAGS: RFL
RH
LEL
LH



4135747E3F



TUMOR SCORE

0

OTHER NEW TAGS:

Two empty rectangular boxes for other new tags.

STRAIGHT CARAPACE-LENGTH:

61.9

WIDTH:

51.3

NOTCH LENGTH:

61.5

DB:

L.O.

VB:

2.8
1
collected

CURVED CARAPACE LENGTH:

66.5

WIDTH:

59.5

HEAD WIDTH:

9.3

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Yes

TAIL LENGTH:

T 14

C

8.5

RIGHT FRONT FLIPPER WIDTH:

10.1

SAMPLES COLLECTED

PLASTRON LENGTH:

50.8

6 Blood Dots on Shore

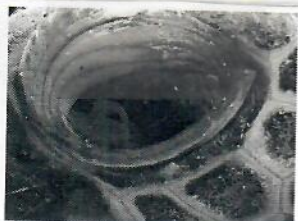
WEIGHT:

71 lbs

DNA Taken

DESCRIPTIVE REMARKS:

Print Film#
Digital Photo Disc #3 #12 1ventral / #14 left eye #13 right eye
Moto Tool #52 3.6 LIQ
Axial: 24 Lateral: 23.6



✓BARN MT 52 REYE MT 52 ✓LEYE MT 52 ✓

52LT	EXCH	HIGH	The tissue has wisp of pink/white running ever so subtle. But more telling is the roughness down by lower lid near corner. Taken together with right, I'd call this a <u>problem eye</u>	"something happening posterior"
52RT	EXC	HIGH	There's the barest hint of a pinprick starting near upper lid. Very very early. <u>Earliest I've ever seen!</u>	FP VULNERABLE

CAPTURE DATE, LOCATION AND METHOD: (20)

11-~~15~~¹⁵ Hand Seuba under Tug Pier Midway Sands IS. 12:30 PM

PERSON RECORDING DATA: Dylm

OLD TAGS:

Empty boxes for old tags

NEW TAGS: ~~RFL~~
RH
LPL
LH

413643695B
4135087C4A

TUMOR SCORE

0

OTHER NEW TAGS:

Empty boxes for other new tags

STRAIGHT CARAPACE-LENGTH:

77.3

WIDTH:

59.6
3.6, 3.5, 3.9, 3.6

NOTCH LENGTH:

77.2

DB:

L.O.

VB:

4
collected

CURVED CARAPACE LENGTH:

83.5

WIDTH:

76

HEAD WIDTH:

10.8

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Yes

TAIL LENGTH:

T 18

C

12.5

RIGHT FRONT FLIPPER WIDTH:

13.3

SAMPLES COLLECTED

PLASTRON LENGTH:

61.5

WEIGHT:

111 lbs

Blood for DNA Taken

DESCRIPTIVE REMARKS:

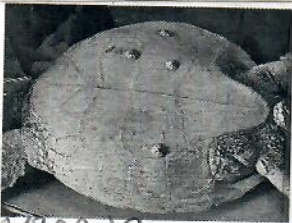
Print Film #9

Digital Photo Disc #3 #15 ventral / #16 left eye #17 right eye

Axial: 29.8 / lateral: 30.2 5.6 LIQ

Barnacles + Embedded in LFF into Alcohol

Moto Tool #53



VBARNS.....MT53



Different Haplotype?



LEYE.....MT53 / REYE.....MT53

53LT	AVE	MED	Wrong angle so I can't see posterior. Also a tad soft focus. But connective tissue looks like it has white working through it and the "folds" are bumpy/unven. A problem that looks like FP coming	FP VULNERABLE
53RT	EXC	HIGH	FP tumour threatening to bust out right at corneal edge. Classic eruption point	FP VULNERABLE

[Faint handwritten notes and a circled number '53' are visible at the bottom of the page.]

CAPTURE DATE, LOCATION AND METHOD: (21) END DAY 4

11-15-09 WEDNESDAY Hand Scuba under Tug Pier Midway Sand IS.
PERSON RECORDING DATA: Dylan

OLD TAGS: []
TUMOR SCORE: [0]

NEW TAGS: RPL LH LPL RH
OTHER NEW TAGS: []
4135663E4D
4136327743

STRAIGHT CARAPACE-LENGTH: 48.2 WIDTH: 38.3

NOTCH LENGTH: 47.9 DB: [] L.O. [] VB: 1 L.O. []
collected

CURVED CARAPACE LENGTH: 51.5 WIDTH: 46.0

HEAD WIDTH: 7.8 SEX: MALE, FEMALE OR UNDETERMINED [U]

PPS: YES OR NO OR NE Yes

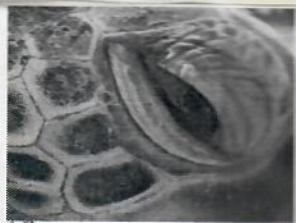
TAIL LENGTH: T 9 C 5

RIGHT FRONT FLIPPER WIDTH: 8.7 SAMPLES COLLECTED

PLASTRON LENGTH: 40.1 DNA Collected

WEIGHT: 32 lbs

DESCRIPTIVE REMARKS:
Print Film #11
Digital Disc #3 Photo #18 1 Ventral / #20 left eye #19 right eye
Axial: 18.1 Lateral: 18.3 1.7 LIQ
Moto Tool #54



LEYE... MT 54

VBARN... MT 54 / REYE ... MT 54



54LT	EXC	HIGH	Tissue normal -no problems	NORMAL
54RT	EXC	HIGH	Tissue normal -no problems	NORMAL

[Faint handwritten notes and a circled number '22' are visible at the bottom of the page.]

CAPTURE DATE, LOCATION AND METHOD: (22)

NTSS
Inner Sea Wall - INSIDE
Midway Sm d Island

11-16-00 Net 10:15am
PERSON RECORDING DATA: Dylan

41363A2858

OLD TAGS:

[Empty boxes for old tags]

NEW TAGS: BFL
RH
LEL
LH

4136342335

TUMOR SCORE

0

OTHER NEW TAGS:

[Empty boxes for other new tags]

STRAIGHT CARAPACE-LENGTH:

86.2

WIDTH: 62.4

NOTCH LENGTH:

85.8

DB: L.O.

VB: 8

CURVED CARAPACE LENGTH:

93.5

WIDTH: 83.0

HEAD WIDTH:

11.9

SEX: MALE, FEMALE OR UNDETERMINED

F

PPS: YES OR NO OR NE

NO

TAIL LENGTH:

T 21.5

C 15.5

RIGHT FRONT FLIPPER WIDTH:

13.8

SAMPLES COLLECTED

PLASTRON LENGTH:

69.2

DNA Taken (Tissue Biopsy)

WEIGHT:

NT

DESCRIPTIVE REMARKS:

(Print Film # 19) Ventral only

Faecal sample by MARC Rice

Digital Photos Disc # 4 / Ventral # 12 / # 3 left # 3 right

Moto Tool # 55

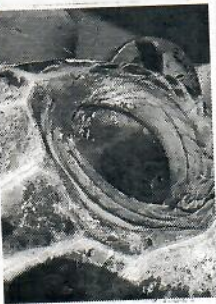
Axial: NT Lateral: NT

MOTO
TOOC
55

11-16-00 Midway Atoll, #4136342335, MT #55, fecal samples

Halimeda sp. Trace
Lyngbya majuscula Trace
 Terrestrial vegetation (trace)
 Spong spicules, masses and major bulk of sample contents
 Turquoise blue paint chips

REYE
 MT55



55RT	GOOD	HI	There's no detail to the tissue but there's that white veining. Taken together with left eye can't give this a normal	FP VULNERABLE
------	------	----	---	------------------

55LT	AVE	MED	Eye shot from wrong angle. Other shot of same eye - I can't assess. Something	UNABLE TO ASSESS
------	-----	-----	---	------------------



VBARN5 MT55 VBARN2 MT55 / EYE MT55 / REYE MT55

[Faint handwritten notes and bleed-through from the reverse side of the page]