

3 of 3

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

REHAB/SURGERY
mead
COMPOSITION

RELEASES
2000-2001-2002
G.H. BALAZS

NOTEBOOK
I

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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CAPTURE DATE, LOCATION AND METHOD:

Mototool "D"

8/31/01 Kawaiimi Canal Scoop Net

PERSON RECORDING DATA: SME

KAILUA BAY

OLD TAGS:

RHF 4246706000
LHF 4240462100

NEW TAGS: RFL

TUMOR SCORE

OTHER NEW TAGS:

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

STRAIGHT CARAPACE-LENGTH:

45.8

WIDTH:

38.2

NOTCH LENGTH:

45.8

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

49.5

WIDTH:

45.0

HEAD WIDTH:

7.5

Axial - 17.5

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Yes

Lateral - 17.3

TAIL LENGTH: T

8.5

c

5.0

RIGHT FRONT FLIPPER WIDTH:

8.0

SAMPLES COLLECTED

PLASTRON LENGTH:

36.2

WEIGHT:

28.6

DESCRIPTIVE REMARKS:

4 plaques soft palate
Endoscope pictures at
TO WRF for BAT study MAC

CAPTURE DATE, LOCATION AND METHOD:

Mototooi "E"

8/31/01

Kawainui Canal Seep Net

PERSON RECORDING DATA:

SME

KAILUA BAY

OLD TAGS:

Empty boxes for old tags

NEW TAGS: RFL

Empty boxes for new tags (RFL)

LFL

TUMOR SCORE

0

OTHER NEW TAGS:

Empty boxes for other new tags

STRAIGHT CARAPACE-LENGTH:

54.1

WIDTH:

42.9

NOTCH LENGTH:

53.9

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH:

58.5

WIDTH:

51.0

HEAD WIDTH:

8.2

Axial - 21.9

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

Lateral - 22.2

TAIL LENGTH:

T

10

c

6.5

RIGHT FRONT FLIPPER WIDTH:

Empty box

SAMPLES COLLECTED

FLIPPER LENGTH:

43.3

48.1

ENDOSCOPE

PICTURES AT

ADDITIONAL REMARKS:

Acentrophora in

5 oral mounds

TO KRF plaque soft palate FOR BAIT study

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

*Manu Olophont
Juan Olophont etc.
SKM, GB, Dr. Morris, Pat
Released at Haleana
Beach Park 12 noon -
Swam away fine.*

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 10/12/01

CAPTURE DATE, LOCATION AND METHOD:

Ken Nichols (N. Shore Dive) via Filieha legend

09-15-01A Puaena Point (Haleana), Oahu KRF captive

PERSON RECORDING DATA: SKM

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

TUMOR SCORE

0/1

ORAL TMRS EXT:

YES OR NO

—

EMACIATION CODE

2

OLD TAGS:

(Diagonal slash through box)

NEW TAGS:

LHF

RHF



424F7D6365



424F796547

STRAIGHT CARAPACE - LENGTH:

69.2 cm

WIDTH:

55.9 cm

NOTCH LENGTH:

68.5 cm

DB:

0 L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

74.5 cm

WIDTH:

68.5 cm

HEAD WIDTH:

10.1 cm

AXIAL:

— cm

LATERAL:

— cm

PPS: YES OR NO OR NE

—

SEX: Male, Female
or Undetermined

TAIL LENGTH: T

— cm

C

— cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

— cm

PLASTRON LENGTH:

— cm

WEIGHT:

— #

DESCRIPTIVE REMARKS:

*RFF amputation on 9-27-01
3rd
Mototool "9-15A" on ~~3rd~~ L/R laterals, white paint*

1-#1 left eye.

18 SEP 2001

SEA TURTLE NECROPSY / TUMOR FORM

DATE FORM FILLED OUT 09/17/01

NECROPSY DATE: / / MTRP STRANDING ID 09-15-01A

CONTACT: Ken Nichols via Fillesha LeRand (SSG)	DATE: 09-15-01A	LOCATION: Pigeon Point (Haleiwa), Oahu
PERSON RECORDING DATA: KUH/lem		

DESCRIPTIVE REMARKS:

found alive with fishing line entangling flipper, hook down throat
 taken to Makai Animal Clinic by Fillesha LeRand (SSG)
 x-ray taken - shows singular fracture of Rt. humerus
 line taken (kept) - 2 pcs cut from mouth
 transferred to NMFS KRF on 09-17-01 by GHB/CM
 plu by KUH/GHB on 09-20-01 and taken to MAC by KUH for flipper amputation surgery
 plu by KM on 09-28-01 and taken to NMFS-KRF.
 Injections of ~~25mg~~ Amikacin given on 9/20, 9/23, 9/26, 9/30, 10/3, 10/6
 left eye one #1 (pinkish) 100mg 2.5cc

05 OCT swif

TUMOR SCORE: 1	TAGS:	SEX: Male, Female or Undetermined <input type="checkbox"/>
ORAL TMRS EXT: YES OR NO N		
EMACIATION CODE: 0		DB: <input type="checkbox"/> VB: <input type="checkbox"/>

STRAIGHT CARAPACE - LENGTH: 68.7 cm	WIDTH: 55.4 cm
NOTCH LENGTH: 68.1 cm	PPS (Y/N): Y
CURVED CARAPACE LENGTH: 72.0 cm 75.0	WIDTH: 68.5 cm
HEAD WIDTH: <input type="text"/> cm	AXIAL: <input type="text"/> cm LATERAL: <input type="text"/> cm

TAIL LENGTH: T 13.5 cm C 9 cm	SAMPLES COLLECTED: Blood taken
RIGHT FRONT FLIPPER WIDTH: <input type="text"/> cm	
PLASTRON LENGTH: 56.3 cm	
WEIGHT: <input type="text"/> #	

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE						
LEFT EYE	1				1	#1 post. corner
MOUTH						
NECK						
RFF						
LFF						
RHF						
LHF						
CLOACA / TAIL						
SEAMS / SCUTES						
INTERNAL						
TOTAL	1				1	

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO

N

OTHER INFORMATION:

TUMOR SCORE:

1

APPROXIMATE TUMOR SIZE CATEGORIES:

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

MEDICAL HISTORY - CLINICAL RECORD

OWNER NAME UMFS		ADDRESS		TELEPHONE	
PATIENT NAME NORM SHORE - 9/15/01		SPECIES	BREED	SEX	COLOR AND MARKINGS
ALTERED YES <input type="checkbox"/> NO <input type="checkbox"/>	BIRTHDATE	SPECIAL INFORMATION FISHING LIPS		LAB	X-RAY

DATE	TEMP	DESCRIPTION
9/27/01		<p>in for flipper amputation - noted to have slightly swollen plaster - parallel to mer by white - 7.5cc Dexam 1M 10:40 Orest: forced intubation 7 to 20 cm 15 MIN - under orest - 570 - supine lvs block 1.5cc 10:55 Surgery 120 MIN 11:05 Reduce Orest to 3/2 11:27 - " " 170 11:55 turn off orest after 70 MIN Surged round R front flipper at joint Bone was fractured - oblique Anterior muscle a vein SQ suture w/ orange mattress closure w/ #4 gut over sew edge a vein 1:50 Flipper movement (2 hr after gas off) 4:30 first bleed (4 E-vir) 5:30 phos tube 5 hr after gas off AB - fluids - normal 500cc 1P - 1cc Dexam 1M for bleeding Dipram AB - 250 mg amoxicillin 1M Mycins 9/30, 10/3, 10/6 noted bleed & some fluid in endotracheal tube</p>
9/28/01		<p>Doing ok send to Kewada w/ AB</p>

LIVE TURTLE EXAMINATION RECORD

18 SEP 2001

Date: 9/15/01 A
Turtle ID: N SWORE - PUNAHUA PT - KEN NICHOLS
Comments: LINER IN MOUTH - (2) LINE
REMOVED FROM FLAPPER - 72 CM

PHYSICAL EXAM

Head and neck: NORMAL

Mouth: 2 MONO LINES DOWN THROAT
UNABLE TO SEE ANY HOOK - MOUTH BLEEDING

Eyes: NORMAL #1 left eye wound

Front flippers: RF SWOLLEN NOT USING IT
STRANGULATION DUE TO FISHING LINE

Shell: NORMAL

Plastron: NORMAL

Rear flippers: NORMAL

Tail: NORMAL

BODY CONDITION: Good

SAMPLES TAKEN

PCV 25 T.P. 4.4

CBC _____ Chemistries _____

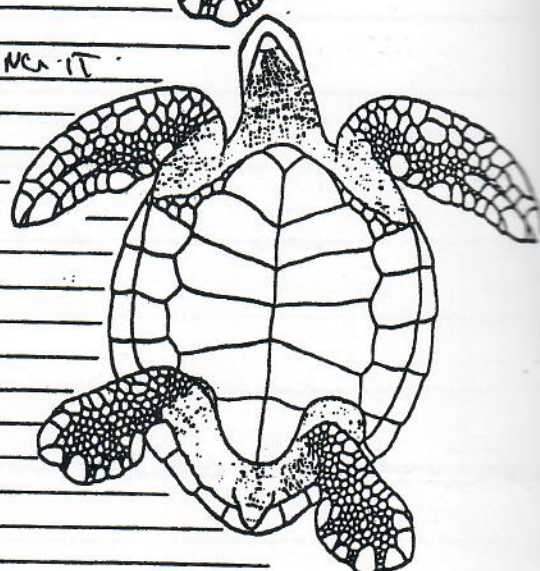
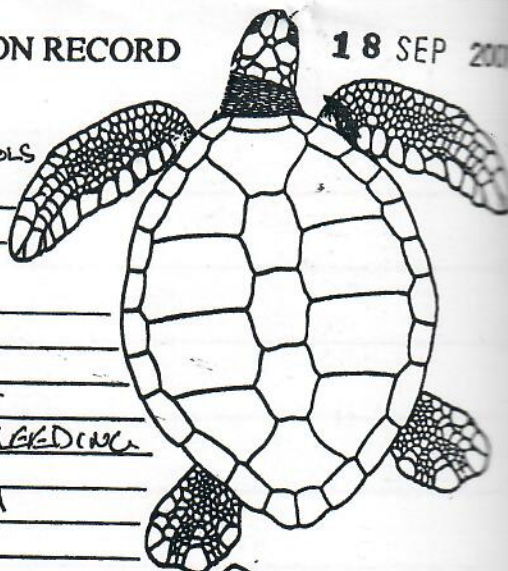
Others X RAYS - FLAPPER, BODY

APPROXIMATE TUMOR SIZE CATEGORIES:

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

RECOMMENDATIONS: RADS - NO HOOKS - CUT LINE
SHORT IN THROAT - HUMERUS - OBLIQUE FX PROXIMAL
HEAD FOR KAWAHO EVALUATE FOR SURG. AMPUTATION
Signed: Robert AMIKAKIN 200 mg THEN 100 mg q 12 hr

MAKAI ANIMAL CLINIC, 420 Uluniu Street, Kailua, HI 96734



Case # 580

Agent: Filiesha

Date: Sept. 15/01

Called by: Docare (Nick)

Map 61 F2

Call rec'd by: 10:00 - On site: 12:00

Call reported by: Ken Nicholas

Location: 66-456 Kam Hwy. North Shore Dive

Haleiwa # 737-2822

Status: live

tags: 0

tumors @

cl - 72cm

SSP - grn

Praena Pt.
(Haleiwa)

~~ed Did not respond to call. Turtle was
dead on the island. need a boat to
get it.~~

~~Praena Pt.~~
Praena Pt.

Brought turtle up from a dive. Had line
wrapped around ~~flippers~~ ^{flippers}, but they took it
off. Hook inside mouth. Took to MAC.

11/5/01
LIVE TURTLE EXAMINATION RECORD

Date: Oct 15 2001 *11/5/01*
 Turtle ID: PUNAKUU HAWAII
 Comments: collected by G.B. - Clotus
TUMOR - SHIPPED TO MAKAI 10/16/01
 PHYSICAL EXAM 5600s - scl 5800m

Head and neck: normal

Mouth: gallbladder tumor #2 blood base
other under #1

Eyes: normal

Front flippers: normal

Shell: normal

Plastron: normal

Rear flippers: normal

Tail: normal

BODY CONDITION: good

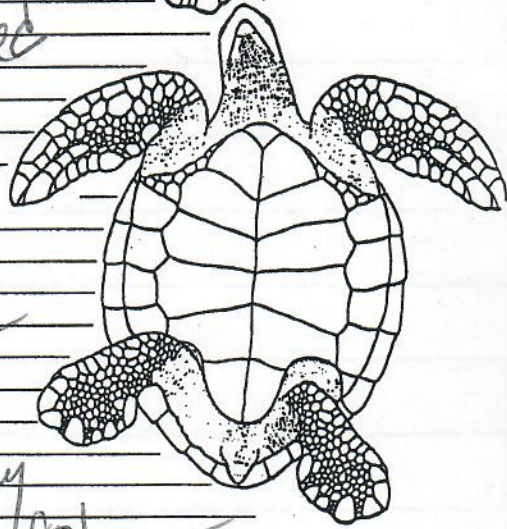
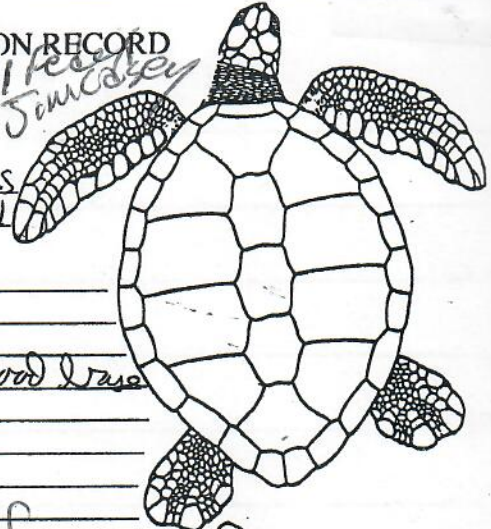
SAMPLES TAKEN
 PCV 31 T.P. 5.0
 CBC _____ Chemistries _____
 Others _____

APPROXIMATE TUMOR SIZE CATEGORIES:

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

RECOMMENDATIONS: gallbladder tumor - 10/18/01
good evidence another 3-4cm - remove tumor kidney
gallbladder remove second another #1 tumor - send to Kawas
 Signed: A - 125mg amoxicillin (M) - Per 1 week
Ronald A. Mours DVM

MAKAI ANIMAL CLINIC, 420 Uluniu Street, Kailua, HI 96734



*Released
 Hawaii
 Kuu
 beach
 park
 G.B.
 D.P.
 Friday
 11/2/01*



Re-sighted Kīhei / Olowalu
by Sumai DIANN
5/07 MULKEY

Nov 1 2001
Thursday

Released Halewa Alii beach Park, N. Shore Oahu

ID - 10-15-01

punalulu, ^{KAW}

glottal surgery

LH - 423 D7 46350 PIT TAG - inserted 10-15-01

RH - 423 D6 27033 PIT TAG - inserted 10-15-01

MOTO TOOL = "LU" 3 lateral Left + Right

CCL = 59.5 cm

CCW = 55.0 cm

SCL = 54.9 cm

notch 54.7

SCW = 45.9 cm

PC old injury + flexible.

Print photo of Turtle
with Denise

MEDICAL HISTORY - CLINICAL RECORD

OWNER NAME N M S		ADDRESS		TELEPHONE	
PATIENT NAME KAWANA BAY	SPECIES BAY	BREED	SEX	COLOR AND MARKINGS	
ALtered YES <input type="checkbox"/> NO <input type="checkbox"/>	BIRTH DATE	SPECIAL INFORMATION SWIMMING IN CIRCLES	LAB	X-RAY	
DATE	TEMP	DESCRIPTION			
7/14/01		<p>X-ray head - no radiopaque areas - 2 deep dense areas where puncture wounds are - Puncture wound probable spear wounds other areas in neck with abrasion 1 patch on AB clean up wounds update AB on 5/10 80 mg ampicillin 9/14 40 mg (8cc) 9/17 20 9/20 19/23 swimming in water of J Kowale</p>			

LIVE TURTLE EXAMINATION RECORD

Date: 9/11/01
 Turtle ID: Kalona Bay
 Comments: Found swimming in cove
 WT 35.6

PHYSICAL EXAM

Head and neck: 2 small puncture wounds
in head

Mouth: normal

Eyes: normal - R eye bulges out a bit

Front flippers: Left - limited movement
compared to R

Shell: normal

Plastron: normal

Rear flippers: normal

Tail: normal

BODY CONDITION: good

SAMPLES TAKEN

PCV 30 T.P. 4.0

CBC _____ Chemistries _____

Others pictures, RADS HEAD

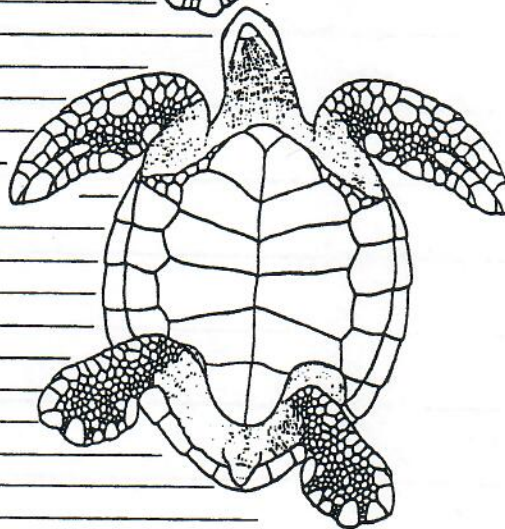
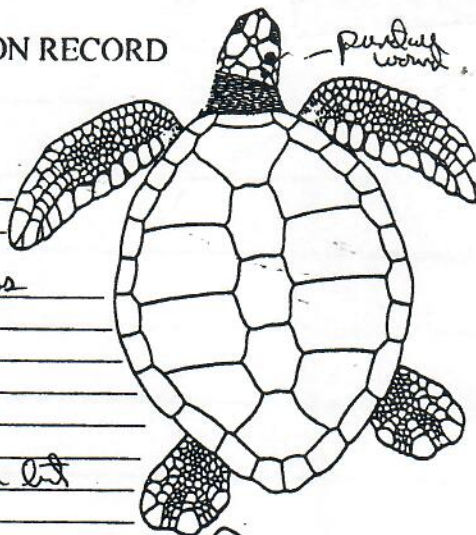
APPROXIMATE TUMOR SIZE CATEGORIES:

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

RECOMMENDATIONS: No tumors - trauma puncture wound
in head - possible brain injury - Start on AB - hold in
clinic overnight - evaluate in water

Signed: Robert A. Morris DVM

MAKAI ANIMAL CLINIC, 420 Uluniu Street, Kailua, HI 96734



14 NOV 2001

SEA TURTLE NECROPSY / TUMOR FORM

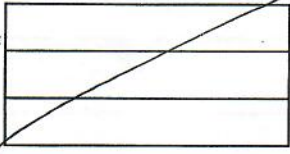
DATE FORM FILLED OUT 11/13/01

NECROPSY DATE: 11/01 MTRP STRANDING ID 11-12-01

CONTACT: JUAN OLIPHANT/ MARLU OLIPHANT VIA CODY HOOVEN REGINA WATERS	DATE: 11-12-01	LOCATION: HALEIWA (POHAKU LGA WAY), OAHU
PERSON RECORDING DATA:		

DESCRIPTIVE REMARKS:
 Found alive, beached with fishing line entangling neck + FF and also extending down mouth. Juan notified Maria and she arrived on site along w/ Jock Sutherland (homeowner's son), John McKenzie (STSTE) and Aji Cooper. Fishing line removed by Jock. Plu by Regina/Cody and taken to Makai Animal Clinic. X-rays taken, no hooks found. time out dose as possible
 Plu by Seb/SKM and taken to NMFS-HLE
 6th + 7th Left marginal healed notch
 mild emaciation
 neck + RFF entanglement - causing necrotic lesion
 Lft. post central broken and healed

OVER →

TUMOR SCORE: 1	TAGS: 	SEX: Male, Female or Undetermined <input checked="" type="checkbox"/>
ORAL TMRS EXT: YES OR NO No		
EMACIATION CODE: 1		DB: <input type="checkbox"/> VB: <input checked="" type="checkbox"/>

STRAIGHT CARAPACE - LENGTH: 65.2 cm	WIDTH: 52.1 cm
NOTCH LENGTH: 64.8 cm	PPS (Y/N): NO
CURVED CARAPACE LENGTH: 78.0 cm	WIDTH: 62.0 cm
HEAD WIDTH: 9.2 cm	AXIAL: <input type="checkbox"/> cm LATERAL: <input type="checkbox"/> cm
TAIL LENGTH: T 16.0 cm	C 11.0 cm
RIGHT FRONT FLIPPER WIDTH: 12.2 cm	SAMPLES COLLECTED: <input type="checkbox"/>
PLASTRON LENGTH: 53.3 cm	<input type="checkbox"/>
WEIGHT: 86.6 #	<input type="checkbox"/>

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE	1	1				
LEFT EYE						
MOUTH						
NECK	2	1				
RFF						
LFF	1	1				
RHF		1				
LHF		1				
CLOACA / TAIL						
SEAMS / SCUTES						
INTERNAL						
TOTAL						

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO

OTHER INFORMATION:

leeches + leech eggs ventral neck > removed by skin
 dorsal LHF - suspicious grey patch
 3 white bumps (round) found in mouth - on tip - near jaw hinges
 JH area appears to be inflamed (red + swollen)

TUMOR SCORE:

- APPROXIMATE TUMOR SIZE CATEGORIES:
 #1 = DETECTABLE PATCH TO 1cm DIAMETER
 #2 = >1cm TO 4cm
 #3 = >4cm TO 10cm
 #4 = >10cm

14 NOV 2001

LIVE TURTLE EXAMINATION RECORD

96# Date: 11/12/01
 Turtle ID: N. Shore - MAALU
 Comments: Fishing line in mouth - wrapped around neck & front flippers - cut off by knife

PHYSICAL EXAM 11/13/01

Head and neck: #2 neck some pol. Les on neck

Mouth: feeding line down throat cannot be removed by gentle pressure
no tumors
 Eyes: normal

Front flippers: tumor left flipper #2

Shell: normal

Plastron: normal

Rear flippers: #2 tumor R Rear.

Tail: normal

BODY CONDITION: good

SAMPLES TAKEN

CV 29 T.P. 4.6
 BC _____ Chemistries _____
 Others X-rays 2

APPROXIMATE TUMOR SIZE CATEGORIES:

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

RECOMMENDATIONS: no hooks on RAD's - cut line short - to Kaula for observation - scans - surgery etc -
 signed: Robert Wilson DVM



Shawn
FZI
TO FAX
Dr. Morris



14 NOV 2001

**SAVE THE SEA TURTLES
INTERNATIONAL Foundation**

P. O. BOX 540
HALEIWA, HI 96712
TELEPHONE (808) 637-2211 FAX: (808) 637-5003

Nov. 12, 2001

George Balazs
National Marine Fisheries
Marine Turtles

Turtle stranding report

The turtle was spotted 15 feet from the ocean on white sand at 61-551 Pohaku Loa Way. The property is owned by Audrey Sutherland, Tel: 637-4126.

→ Juan Oliphant was surfing in front of the Sutherland property, lost his leash and had to swim in over rocks. He reported the turtle to me, as he was late for work. His telephone number is 783124.

I sent John McKenzie, tel: 637-1943, to video turtle while I called National Marine Fisheries. I called Ken and he was busy however said he would help if necessary and would be on stand by. Also present was Ali Cooper, 637-1943.

Went to see the turtle (I have permission to enter the property for turtle observation at any time) and found Audrey not home. Her son Jock arrived at the same time as I did. I noted the fishing line in the mouth and around the neck and front rt. Flipper. I went to the Sutherland's home and used the phone to call NMF. Also had tried on my cell phone. Also called Ken and was informed to look into the mouth to see if hook was visible. While making the call Jock did cut off fishing line. It was noted that the turtle had a small tumor on the neck. Friends of Jock arrived to help. It was noted that there were several loose dogs in the neighborhood. It was raining. The traffic was very heavy. There was no one who could stay with the turtle and wait for National Marine Fisheries to arrive as it is one-hour drive time to the N. Shore. The waves were approx. 5 feet and the tide was rising. With no other solution in mind the turtle was taken to my home four houses away. The turtle was placed in the bottom of a plastic doghouse, as a carrier given to us was used and not replaced. The turtle was in a kennel that was locked. A wet sheet was placed over the turtle. I then was able to get to a phone and use the pager number and turtle was picked up.

It was noted again that there are vicious dogs on my property. In fact the dog belonging to my son who lives two houses away has been dead for over one year. The property owner has 14 grandchildren and holds educational talks for children on this property.

Please call with any other questions.

Mahalo: Marlu West

MA

4/01

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

** Haleiwa Alii Beach Park*

SEA TURTLE TAGGING FORM

FORM FILLED OUT 12/4/01

Released 12/4/01

CAPTURE DATE, LOCATION AND METHOD:

Juan Oliphant /
Marla Oliphant via Cody Hoover

11-12-01

AT 12:15 PM by
G. BARRIS and
D. MORRIS
Haleiwa
(Pohaku Loa Hwy),
Oahu

PERSON RECORDING DATA: SNE

TUMOR SCORE

1

ORAL TMRS EXT:
YES OR NO

No

EMACIATION CODE

∅

OLD TAGS:

NEW TAGS:

RHF
RFL
JFL
LHF

424E2E240B



4232114833



*2 print photos -
swam
stop
shop
at then
seward
at normal*

STRAIGHT CARAPACE - LENGTH:

65.4 cm

WIDTH: 53.4 cm

NOTCH LENGTH:

N/A due to broken
1st. postcentral

DB: ∅ L.O.

VB: ∅ L.O.

CURVED CARAPACE LENGTH:

70.0 cm

WIDTH: 63.5 cm

HEAD WIDTH:

9.4 cm

AXIAL: 24.6 cm

LATERAL: 24.4 cm

PPS: YES OR NO OR NE

No

SEX: Male, Female
or Undetermined

U

TAIL LENGTH: T

13 cm

C 10.5 cm

RIGHT FRONT FLIPPER WIDTH:

11.9 cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

53.2 cm

WEIGHT:

80.9 #

DESCRIPTIVE REMARKS:

New

4.3 cc LIQ

Mototool "A2" on 3rd H/rt. laterals

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE						
LEFT EYE						
MOUTH						
NECK	2	1			3	
RFF						
LFF	1				1	
RHF		1			1	
LHF						
CLOACA / TAIL						
SEAMS / SCUTES						
INTERNAL						
TOTAL	3	2			5	

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO

No

OTHER INFORMATION:

TUMOR SCORE:

1

APPROXIMATE TUMOR SIZE CATEGORIES:

#1 = DETECTABLE PATCH TO 1cm DIAMETER

#2 = >1cm TO 4cm

#3 = >4cm TO 10cm

#4 = >10cm

vised 03/28/01

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

Reduce

Released by
GHB/SME/Lehua C.
on 11-30-01
at Haleiwa
Beach Park

SEA TURTLE ~~RESEARCH~~ TUMOR FORM

DATE FORM FILLED OUT 11/30/01

Release DATE: 11/30/01 MTRP STRANDING ID 11-29-01

CONTACT: HPD via Beverly (DOLARE) / Off. Dainard (DOLARE)	DATE: 11-29-01	LOCATION: Laniakea Beach, Oahu
PERSON RECORDING DATA: SME/GTB		

DESCRIPTIVE REMARKS: Turtle found beached and the end of Laniakea before the houses (Bay area). Hook in RFF. Plu by SKB/KSM and taken to MAC where ~~SMALL~~ hook was removed by Dr. Morris. Brought back to NMFS-Lab and held overnight.

3rd & 4th Lat. left have slight indentation
5th central - Healing crack Mototool "L1" 2nd lat. RT/rt.
No pleats on rt. eye Lt/rt. jaw hinge - sm. bumps, rugose tissue

TUMOR SCORE: <input type="checkbox"/>	LHP TAGS: 500E1B0B5D	SEX: Male, Female or Undetermined <input checked="" type="checkbox"/> M
ORAL TMRS EXT: YES OR NO <input type="checkbox"/>	NEW 500E072F73	
EMACIATION CODE: <input type="checkbox"/>	RHF	DB: <input type="checkbox"/> VB: <input type="checkbox"/>

STRAIGHT CARAPACE - LENGTH: <input type="text" value="86.0"/> cm	WIDTH: <input type="text" value="64.9"/> cm
NOTCH LENGTH: <input type="text" value="85.4"/> cm	PPS (Y/N): <input type="text" value="N"/>
CURVED CARAPACE LENGTH: <input type="text" value="90.0"/> cm	WIDTH: <input type="text" value="78.0"/> cm
HEAD WIDTH: <input type="text" value="12.7"/> cm	AXIAL: <input type="text" value="-"/> cm LATERAL: <input type="text" value="-"/> cm
TAIL LENGTH: T <input type="text" value="37.0"/> cm	C <input type="text" value="29.0"/> cm
RIGHT FRONT FLIPPER WIDTH: <input type="text" value="-"/> cm	SAMPLES COLLECTED: 3cc blood - taken for DNA/plasma banking
PLASTRON LENGTH: <input type="text" value="66.5"/> cm	
WEIGHT: <input type="text" value="-"/> #	

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

near TAPS

SEA TURTLE NECROPSY / TUMOR FORM

12/21/01 Friday
Released 12:30 PM
Haleiwa
Alii Beach
Park
by B. Hays
and
Bourette
subm
off
fine

DATE FORM FILLED OUT 12, ~~11~~ 01

NECROPSY DATE: 1 1 21 MTRP STRANDING ID 12-10-01A

CONTACT: DATE: 12-10-01 LOCATION: LANIAKEA, OAHU

PERSON RECORDING DATA:

DESCRIPTIVE REMARKS: *extensive Resin Patch*
Print Pictures taken of Forklift Moving & in tray in truck
Carapace Impact - Repairs by Dr. Mopper to right side of carapace with L2 shaver
"L2" 3rd bleed left
"L2" 4th lateral right New MOTO TOOL "L2"
Last Amikacin injection given 12/21/01 by GHB

TUMOR SCORE:
ORAL TMRS EXT:
YES OR NO
EMACIATION CODE:

TAGS:

4233400066

422D536E6C

LHF

SEX: Male, Female or Undetermined

F

RHF

DB:

VB:

STRAIGHT CARAPACE - LENGTH:

86.6 cm

WIDTH:

cm

NOTCH LENGTH:

86.1 cm

PPS

(Y/N):

cm

CURVED CARAPACE LENGTH:

91.5 cm

WIDTH:

cm

HEAD WIDTH:

12.2 cm

AXIAL:

cm

LATERAL:

cm

TAIL LENGTH: T

cm

C

cm

RIGHT FRONT FLIPPER WIDTH:

cm

SAMPLES COLLECTED:

skin LHF placed in

PLASTRON LENGTH:

cm

alcohol for DNA

WEIGHT:

#

Revised 04/04/01

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

Released Kawai'i
by GB 1130 AM
12/29/01

SEA TURTLE TAGGING FORM

Shawn TBS

DATE FORM FILLED OUT 12/29/01

Reviewed
Mototoo
"A"

w/c. Ogura and
Dr. Morris

CAPTURE DATE, LOCATION AND METHOD:

8-29-01
Kawai'i Canal, Oahu

KRF
CAPTIVE
Bait - YONAT
FOR A BAIT STUDY
Print picture

PERSON RECORDING DATA:

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

1

EMACIATION CODE

0

OLD TAGS:

Empty box for old tags

NET 422D6D0500
RFL
LFL 4236065D2C
NET

STRAIGHT CARAPACE - LENGTH: 8/29/01 53.7 cm

54.1 cm

WIDTH: 42.0 cm

NOTCH LENGTH: 53.8 cm

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH: 58.5 cm

58.5 cm

WIDTH: 51.0 cm

HEAD WIDTH: 8.2 cm

AXIAL: Not Done cm

LATERAL: cm

PPS: YES OR NO OR NE

SEX: Male, Female
or Undetermined

U

TAIL LENGTH: T 11.5 cm

C 7.5 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

cm

blood by Dr.

PLASTRON LENGTH: 44.0 cm

Morris

55.5
11.9
43.6

WEIGHT: 43.6 #

DESCRIPTIVE REMARKS:

very vigorous! 1 - 2mm white oral bump found

Release by GB Kawainui
12/9/01 w/c. Ogura 12:30 AM
and DR. Morris
PRINT picture

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 12/9/01

Renewed Mototool "C"

CAPTURE DATE, LOCATION AND METHOD:

8-29-01 Kawainui Canal, Oahu	KRF BRITISH MUSEUM FOR A BAIT STUDY
PERSON RECORDING DATA:	

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

~

EMACIATION CODE

0

OLD TAGS:

NEW RFL	NEW 4236540329
LFL	NEW 42363E5368

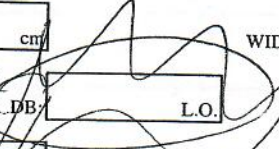
STRAIGHT CARAPACE - LENGTH:

8/29/01 = 50.9
52.7 cm

WIDTH: 43.5 cm

NOTCH LENGTH:

52.7 cm



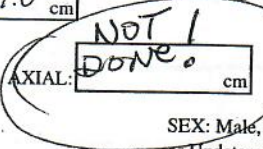
CURVED CARAPACE LENGTH:

57.0 cm

WIDTH: 50.5 cm

HEAD WIDTH:

8.9 cm



PPS: YES OR NO OR NE

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

11.5 cm

C 8.5 cm

SAMPLES COLLECTED:

54.9
12.1
42.8

RIGHT FRONT FLIPPER WIDTH:

blood drawn by

PLASTRON LENGTH:

8/29/01 = 40.6 cm
42.6 cm

Dr. Morris

WEIGHT:

8/29/01 = 41 lbs
42.8 #

DESCRIPTIVE REMARKS:

7th + 8th marginal - left healed slit
4 anal bumps

Revised 04/04/01

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

Release by GB Kawainui
12/9/01 w/c. Ogawa
12:30 AM
and DR. Morris
PRINT picture

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 12/9/01

Renewed
Nototool
"C"

CAPTURE DATE, LOCATION AND METHOD:

8-29-01	KRF CAPTIVE BRILLIANT FOR BAIT STUDY
Kawainui Canal, Oahu	
PERSON RECORDING DATA:	

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

~

EMACIATION CODE

0

OLD TAGS:

NEW 4236540329



LFL 42363E5368



STRAIGHT CARAPACE - LENGTH:

52.7 cm

WIDTH: 43.5 cm

NOTCH LENGTH: 52.7 cm

CURVED CARAPACE LENGTH:

57.0 cm

WIDTH: 50.5 cm

HEAD WIDTH: 8.9 cm

AXIAL: NOT DONE cm

LATERAL: cm

PPS: YES OR NO OR NE

SEX: Male, Female or Undetermined

TAIL LENGTH: T 11.5 cm

C 8.5 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

cm

blood drawn by

PLASTRON LENGTH: 42.6 cm

Dr. Morris

WEIGHT: 42.8 #

DESCRIPTIVE REMARKS:

7m + 8th marginal - left healed slot
4 oval bumps

54.9
12.1
#2.8

8/29/01 = 40.6 cm

8/29/01 = 41 lbs

Revised 04/04/01

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

Released by GB 1130AM
12/29/01 KAWAINUI
with C. Ogura

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 12/29/01

Renewed Mototool Print Picture.
"E"

CAPTURE DATE, LOCATION AND METHOD:

8-31-01	Kawainui Canal, Oahu	KRF CAPTIVE FOR BRIL-YONAT BAIT STUDY
PERSON RECORDING DATA:		

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

new RFL	422F12724C	
new LFL	422F182455	

8/29/01 = 54.1
STRAIGHT CARAPACE - LENGTH: 55.7 cm WIDTH: 44.5 cm

NOTCH LENGTH: 55.4 cm DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: 60.0 cm WIDTH: 52.5 cm

HEAD WIDTH: 9.1 cm AXIAL: NOT DONE! cm LATERAL: cm

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

TAIL LENGTH: T 11.0 cm C 8.0 cm

RIGHT FRONT FLIPPER WIDTH: cm SAMPLES COLLECTED: blood by Dr.

8/29/01 = 43.3 cm
PLASTRON LENGTH: 44.8 cm Morris

8/29/01 = 48.1 lbs
WEIGHT: 49.5 #

DESCRIPTIVE REMARKS:
very vigorous! total bumps found.

Revised 04/04/01

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

Released by GB
12/29/01 11:30 AM
Kawainui w/ C. Ogura
and Dr. Morris,
Print Picture
Renewed
Mototool
"6"

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 12/29/01

CAPTURE DATE, LOCATION AND METHOD:

8-29-01	Kawainui Canal, Oahu	KRF CAPTIVE BRITANNIA FOR DATA STUDY
PERSON RECORDING DATA:		

TUMOR SCORE <input type="text" value="0"/>	OLD TAGS: LH 413522604F RH 4137065170	NEW TAGS: RFL LFL
ORAL TMRS EXT: YES OR NO <input type="text" value="—"/>		
EMACIATION CODE <input type="text" value="0"/>		

STRAIGHT CARAPACE - LENGTH: cm
 WIDTH: cm
 NOTCH LENGTH: cm
 DB: L.O. VB: L.O.

CURVED CARAPACE LENGTH: cm
 WIDTH: cm
 HEAD WIDTH: cm
 AXIAL: cm LATERAL: cm
 SEX: Male, Female or Undetermined

PPS: YES OR NO OR NE

TAIL LENGTH: T cm C cm

RIGHT FRONT FLIPPER WIDTH: cm

PLASTRON LENGTH: cm

WEIGHT: #

SAMPLES COLLECTED:

41.2
12.0
27.2
24.2

DESCRIPTIVE REMARKS:
- turtle bit by other turtles (scab found on left neck, LFF + trailing edge of RHF)
- plastron looks a little flat

Revised 04/04/01

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

SEA TURTLE TAGGING FORM

Released 12/29/01
Kawainui 11:30 AM
w/c. Ogura & Dr. Morris
- print picture

DATE FORM FILLED OUT 12/29/01
CAPTURE DATE, LOCATION AND METHOD:

8-29-01
Kawainui Canal, Oahu
KRF CAPTIVE
FOR BAIT STUDY

TUMOR SCORE

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

OLD TAGS:

NEW TAGS:
RFL
LFL

STRAIGHT CARAPACE - LENGTH: cm
WIDTH: cm

NOTCH LENGTH: cm
DB: VB:

CURVED CARAPACE LENGTH: cm
WIDTH: cm

HEAD WIDTH: cm
AXIAL: cm LATERAL: cm

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

TAIL LENGTH: T cm
C cm

RIGHT FRONT FLIPPER WIDTH: cm
SAMPLES COLLECTED:

PLASTRON LENGTH: cm

8/29/01 = 38 lbs
WEIGHT: #

DESCRIPTIVE REMARKS:

2

SEA TURTLE TAGGING FORM

FRIDAY
DATE FORM FILLED OUT 12/14/01

Other measurements & Tagging to be done later

CAPTURE DATE, LOCATION AND METHOD:

Kaloko, Aiea A, Aiupio	Scoop net
PERSON RECORDING DATA: S, Boavers	

TUMOR SCORE

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

OLD TAGS:

NEW TAGS:

424D07402C



424E1A3F53



STRAIGHT CARAPACE - LENGTH:

54.8 cm

WIDTH: 42.9 cm

NOTCH LENGTH: 54.0 cm

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH:

59.0 cm

WIDTH: 51.5 cm

HEAD WIDTH: 8.8 cm

AXIAL: cm

LATERAL: cm

PPS: YES OR NO OR NE Y

SEX: Male, Female or Undetermined

TAIL LENGTH: T 11.0 cm

C 7.0 cm

RIGHT FRONT FLIPPER WIDTH:

9.7 cm

SAMPLES COLLECTED:

PLASTRON LENGTH: 44.5 cm

WEIGHT: 48.0 #

DESCRIPTIVE REMARKS:

ALGAE IN MOUTH, COLLECTED
Divided GB/SB
Left front flipper severed by line, bleeding,
humerous broken, shipped to HNL

NO LINE Remaining.

M&E bloody

Revised 04/04/01

Redund

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

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 12/19/01

Single line mototool on
1st/right 2nd lateral

CAPTURE DATE, LOCATION AND METHOD:

12-14-01	Kaloko / Honokohau, (Area A) Big Island	Scoop Net
PERSON RECORDING DATA: SME		

TUMOR SCORE

\emptyset

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE

\emptyset

OLD TAGS:

NEW TAGS:

LHF	424D07402C	} Applied by SME
RHF	424E1A3F53	

STRAIGHT CARAPACE - LENGTH:

54.3 cm

WIDTH: cm

NOTCH LENGTH:

54.1 cm

DB: \emptyset L.O.

VB: \emptyset L.O.

CURVED CARAPACE LENGTH:

59.0 cm

WIDTH: cm

HEAD WIDTH: cm

AXIAL: 19.7 cm

LATERAL: 19.8 cm

PPS: YES OR NO OR NE

SEX: Male, Female
or Undetermined

U

TAIL LENGTH: T cm

C cm

~~Left~~

RIGHT FRONT FLIPPER WIDTH:

9.1 cm

SAMPLES COLLECTED:

PLASTRON LENGTH: cm

Flipper and
remaining base from RFF

WEIGHT: #

42.0 #

DESCRIPTIVE REMARKS:

w/o flipper

RFF amputation by Dr. Morris. Plu by SME on 12-19-01 and
shipped to Kona via Aloha Cargo. Will be Plu by Marc Rice.

SEA TURTLE NECROPSY / TUMOR FORM

DATE FORM FILLED OUT 12, ~~10~~ 01

NECROPSY DATE: 1 1 21

MTRP STRANDING ID

12-10-01A

12/21/01 Friday
Released 12:30 PM
Haleiwa
Alii Beach
Park
by BIAZZ and
Barretto.
swam off
Five

CONTACT:

DATE: 12-10-01

LOCATION:

LANIAKEA, OAHU

PERSON RECORDING DATA:

DESCRIPTIVE REMARKS:

Print Pictures taken of Forklift Moving & in tray in truck with L2 showing
Carapace Impact - Repairs by Dr. Morris to right side of carapace.
extensive Resin Patch
"L2" 3rd bleed left
"L2" 4th lateral right New MotoTool "L2"
last Amikacin injection given 12/21/01 by GHB

TUMOR SCORE:

0

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE:

0

TAGS:

4233400066

422D536E6C

LHF

SEX: Male, Female
or Undetermined

F

RHF

DB:

0

VB:

0

STRAIGHT CARAPACE - LENGTH:

86.6 cm

WIDTH:

— cm

NOTCH LENGTH:

86.1 cm

PPS
(Y/N):

—

CURVED CARAPACE LENGTH:

91.5 cm

WIDTH:

— cm

HEAD WIDTH:

12.2 cm

AXIAL:

— cm

LATERAL:

— cm

TAIL LENGTH: T

— cm

C

— cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

skin LHF placed in

PLASTRON LENGTH:

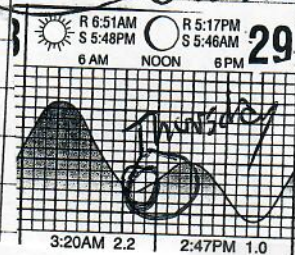
— cm

alcohol for DNA

WEIGHT:

— #

11/29/01 SKKM, GB, SE to Haleiwa Alii Beach Park
 Thursday ~ 10:30 pm. One large female out
 Basking. Boxed and examined - no PITs.
 "A1" Mototool on L & R 3rd laterals.



5019414D5E



500E160459

SCL = 90.4 cm
 new CCL = 96.5 cm

11/30 Seen basking
 Haleiwa Alii

12-4-01 Release of ID 11-21-01 Pohaku loway (JUAN
 Tuesday by Morris & Balazs 2 Print Pictures (Olephant)
 "A2" new Mototool 3rd lat. L & R. Tuning Fork = 1

RH

424E2E240B



LH

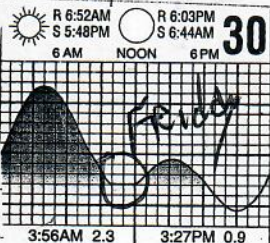
4232114B33



SCL 65.4
 CCL 70.0

weight 80.9 lbs

11-29-01 ^{ID} Laniakea female to MAC by KM & SB
 57 POND CASE for fishhook removal. Adult Male



500E1B0B5D



LH

"LI" Mototool
 L & R 2nd lateral

500E072F73



RH

new

SCL = 85.4
 CCL = 90.0

Released Haleiwa BP 11/30 Friday by
 GB, SE and hehua Gerboe-Wagner. Print photos.

Revised 04/04/01

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

Successfully released
at Kawānui canal at
1:15 p.m. by GAB/SME
on 1-29-02.

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 1/29/02

Stranding

CAPTURE DATE, LOCATION AND METHOD:

1-25-02A	Waiālua, Oahu	Chris Lennon
PERSON RECORDING DATA: SME/LY		

TUMOR SCORE

2

ORAL TMRS EXT:

YES OR NO

yes

EMACIATION CODE

2

OLD TAGS:

NEW TAGS:

RHF RFL	424E0B0B4C
LFL LHF	424D410752

STRAIGHT CARAPACE - LENGTH:

51.2 cm

WIDTH:

39.5 cm

NOTCH LENGTH:

DB:

∅ L.O.

VB:

∅ L.O.

CURVED CARAPACE LENGTH:

55.0 cm

WIDTH:

HEAD WIDTH:

AXIAL:

15.1 cm

LATERAL:

14.6 cm

PPS: YES OR NO OR NE

SEX: Male, Female
or Undetermined

U

TAIL LENGTH: T

C

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

Molt tool "BO" on 3rd lat left/right

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE	1				1	1#1 antero-corner
LEFT EYE		2			2	1#2 upper eyelid 1#2 lower eyelid
MOUTH	1	2			3	1#2 RSH 1#2 JH 1#1 Lower mandible
NECK						
RFF	2			1	3	1#1 dorsal
LFF						
RHF	●	1			1	
LHF		1			1	
CLOACA / TAIL						
SEAMS / SCUTES	1	1			2	1#1 central scute 1#2 between 3 rd central & 3 rd lat. left
INTERNAL						
TOTAL	5	7		1	13	

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO

yes

OTHER INFORMATION:

TUMOR SCORE:

2

SEA TURTLE NECROPSY / TUMOR FORM

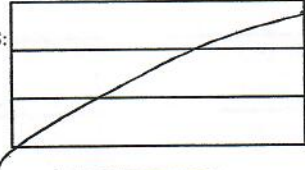
DATE FORM FILLED OUT | 125102

NECROPSY DATE: 1 / 1 MTRP STRANDING ID 1-25-02A

CONTACT: Chris Lennon	DATE: 1-25-02A	LOCATION: Waiialua, Oahu
PERSON RECORDING DATA: SME		

DESCRIPTIVE REMARKS: Turtle found beached in front of contact's house. Dogs were bothering it, so he pulled it into the yard. Pln by SME and taken to MAC. Cryosurgery of 2+ eye tumors and 2+ hind flipper tumor. 3X. Taken to RRF by SME. Tumors on central scutes of carapace

Moderate emaciation

TUMOR SCORE: 2	TAGS: 	SEX: Male, Female or Undetermined U
ORAL TMRS EXT: YES OR NO yes		
EMACIATION CODE: 2		DB: <input checked="" type="checkbox"/> VB: <input checked="" type="checkbox"/>
STRAIGHT CARAPACE - LENGTH: 56.1 cm		WIDTH: 39.3 cm
NOTCH LENGTH: 56.0 cm		PPS (Y/N): N
CURVED CARAPACE LENGTH: 54.5 cm		WIDTH: 46.5 cm
HEAD WIDTH: 7.9 cm	AXIAL: <input type="checkbox"/> cm	LATERAL: <input type="checkbox"/> cm
TAIL LENGTH: T 11.5 cm	C 8.0 cm	
RIGHT FRONT FLIPPER WIDTH: 8.5 cm	SAMPLES COLLECTED:	
PLASTRON LENGTH: 46.0 cm	<input type="checkbox"/>	
WEIGHT: 28.4 #	<input type="checkbox"/>	

LIVE TURTLE EXAMINATION RECORD

Date: 11/25/02A
 Turtle ID: WATAIJA - LKUNON
 Comments: STRANDED

WT 28.4 lbs

PHYSICAL EXAM

Head and neck: normal

Mouth: R lower jaw flat tumor - soft jaw
no galls tumor

Eyes: (L) - 2 #2 + 1 nodule tumor visible but
not visible (R) #2 small nodules - visible

Front flippers: R - Shoulder area #3 - #2 flat

Shell: small soft area in depression
possible tumor

Plastron: slightly sunken

Rear flippers: L - #2 tumor
R - #2 tumor

Tail: normal

BODY CONDITION: moderate emaciation

SAMPLES TAKEN

PCV 27 T.P. 2.4
 CBC _____ Chemistries _____
 Others _____

APPROXIMATE TUMOR SIZE CATEGORIES:

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

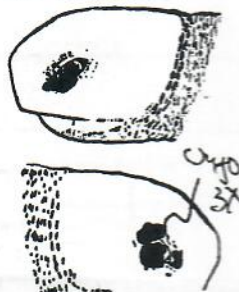
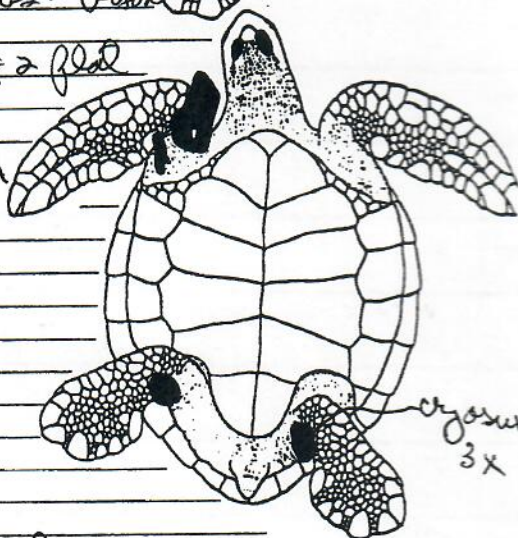
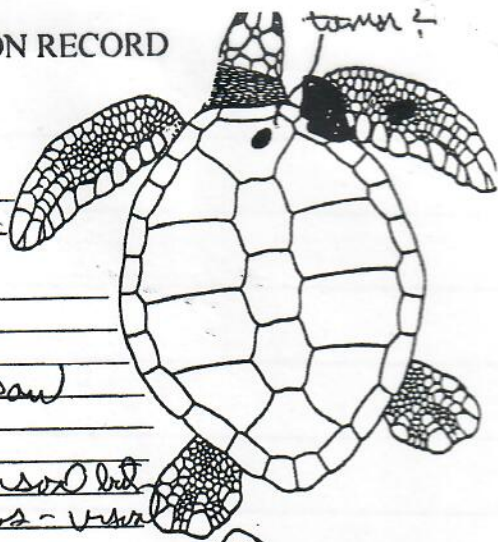
RECOMMENDATIONS: seems unusual - PCV OK

R/cryosurgery 3X + R rear tumor 3X
D. K. Morris - to Kailua

Signed: R. K. Morris

MAKAI ANIMAL CLINIC, 420 Ulunju Street, Kailua, HI 96734

GB photo of cryosurgery by D.R. Morris
11/25/02 PM TO KRF by SE



MOTOTOOL "D"

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

SEA TURTLE TAGGING FORM

Successfully released
at Kawai'i Canal at
1:15 p.m. on 1-29-02 by
GHB/SME.

DATE FORM FILLED OUT 1/29/02

CAPTURE DATE, LOCATION AND METHOD:

8-31-01	Kawai'i Canal, Oahu	KRF Capture for Bait Study
PERSON RECORDING DATA: SME/GHB		

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE

8

OLD TAGS:

RHF 424F706D00
LHF 424D462100

NEW TAGS:

RFL
LFL

STRAIGHT CARAPACE - LENGTH: cm WIDTH: cm

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

CURVED CARAPACE LENGTH: cm WIDTH: cm

HEAD WIDTH: cm AXIAL: cm LATERAL: cm

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

TAIL LENGTH: T cm C cm

RIGHT FRONT FLIPPER WIDTH: cm SAMPLES COLLECTED:

PLASTRON LENGTH: cm

WEIGHT: #

DESCRIPTIVE REMARKS:

"Mototool "D" re-done and paint re-applied.
x-rays taken of RHF - noticeable swelling
& limited usage

Photos & x-rays
by GHB
forms/tagging.xls

MEDICAL HISTORY - CLINICAL RECORD

OWNER NAME V MFS		ADDRESS		TELEPHONE	
NAME D	SPECIES	BREED	SEX	COLOR AND MARKINGS	
ALTERED YES <input type="checkbox"/> NO <input type="checkbox"/>	BIRTHDATE	SPECIAL INFORMATION FLIPPED UP STOOD TORTISE	LAB	X-RAY	

DATE	TEMP	DESCRIPTION
1/11/02	S	Re v turtle of Madai - said to have less use of flipper than before - (Young B.)
	O	very limited mobility - swelling extends to distal flipper - slightly more swollen at distal humerus
	A	could hear wave -
	P	Re x-ray flipper @ AP
	A	Fracture line across distal humerus - no evidence of loose nucleus or osteomyelitis - soft tissue swelling +
	P	top area for cytology + cts
		put Iband on ACJ off
	WT 3.4	WT gain
	1.4	amblycin 25mg - initial - then 40mg @ 2hr
	1/14	1/17
		swollen cts + cytology
		R
		42AF7D6D0D
		42AD462106

Returned
To
KRF

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 12/28/01

Metotool
"D"

CAPTURE DATE, LOCATION AND METHOD:

8-31-01	Kawainui Canal, Oahu	KRF CAPTIVE
PERSON RECORDING DATA:		FOR BAIT STUDY

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

RHF/424F7D6D00

RFL

LHF/424D462100

LFL

NEW TAGS:

STRAIGHT CARAPACE - LENGTH:

47.7 cm

WIDTH: 39.6 cm

NOTCH LENGTH:

47.5 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

51.5 cm

WIDTH: 46 cm

HEAD WIDTH:

8.3 cm

AXIAL:

cm

LATERAL:

cm

PPS: YES OR NO OR NE

SEX: Male, Female
or Undetermined

TAIL LENGTH: T

9.5 cm

C

7.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

blood drawn by

PLASTRON LENGTH:

37.8 cm

Dr. Morris

8/29/01 = 28.6 lbs

WEIGHT:

32.7 #

*Rayed at MAC
and returned to KRF for additional
captive care.

DESCRIPTIVE REMARKS:

- Bit by other turtles (white scabs found on left neck, small on LFF, trailing edge LHF right hind flipper)
- Plastron looks a little flat
- RFF not being used.

44.9
16.2
32.7

Mototool "3B"

Saturday
3-30-02

Right Front Flipper
ID 3-22-02
CCL = 65 x 61
SCL 60.2 x 60.0
Surgical Amputation
by MAC.

LH

422E6F150A



RH

423622473B



New Mototool =

"3B" 3rd lateral L & R

Release 3:20pm Haleiwa Aii Beach Park.

Swam off Ugarosky. Print photo of Twitter Dr. Morris.

Released by GAB/SME
at Kawai'i canal next
to Michael W. Perry's
house on 5/7/02 at
2:35 p.m.

Mototool
"WE"
Ivermex injected

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/6/02

CAPTURE DATE, LOCATION AND METHOD:

Joe Mullins	04/25/02	Kawela Bay, Oahu
PERSON RECORDING DATA: SKB + DB		

TUMOR SCORE

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

OLD TAGS:

NEW TAGS:

RHF	422F0C4758
RFL	
LHF	422F247068
LFL	
RFL	660-X } From LL training
LFL	659-X }

STRAIGHT CARAPACE - LENGTH: cm WIDTH: cm

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

CURVED CARAPACE LENGTH: cm WIDTH: cm

HEAD WIDTH: cm AXIAL: cm LATERAL: cm

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

TAIL LENGTH: T cm C cm

RIGHT FRONT FLIPPER WIDTH: cm

PLASTRON LENGTH: cm

WEIGHT: #

DESCRIPTIVE REMARKS:

For tumor count, look at previous tumor sheet.
"WE" on 2nd R lateral } mototool, white print
"WE" on 3rd L lateral }

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE	1				1	on eye
LEFT EYE	1	1			2	1#1 upper eyelid 1#2 anterior corner
MOUTH		2			2	1#2 RSH 1#2 LSH <i>Dermapin inject</i>
NECK						<i>injected</i>
RFF						
LFF		1			1	
RHF	1				1	
LHF						
CLOACA / TAIL	1				1	1#1 cloaca
SEAMS / SCUTES						
INTERNAL						
TOTAL	4	4			8	

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO

YES

OTHER INFORMATION:

TUMOR SCORE:

2

SEA TURTLE NECROPSY / TUMOR FORM

DATE FORM FILLED OUT

4/26/02

NECROPSY DATE: / /

MTRP STRANDING ID

4/25/02

CONTACT:

Joe Mullins

DATE:

4/25/02

LOCATION:

Kawela Bay

PERSON RECORDING DATA:

TH

DESCRIPTIVE REMARKS:

Been Beached at Kawela Bay since 7:00 am.
 Transported to NMFS by LH, then to MAC by TH.
 P/u by DB on 4-26-02 and taken to NMFS-KRF.
 CA
 Examined by GHE/Dr. Morris on 5-2-02. Dermex injections to JH and eye tumors
 P/u by SHB on 5-6-02 and brought to NMFS lab for release.
 Released on 5/1/02 by SHB/SRE at Kawai'i Canal.

TUMOR SCORE:

2

ORAL TMRS EXT:
YES OR NO

yes

EMACIATION CODE:

1

TAGS:

SEX: Male, Female
or Undetermined

DB:

∅

VB:

∅

STRAIGHT CARAPACE - LENGTH:

65.9 cm

WIDTH:

50.5 cm

NOTCH LENGTH:

64.7 cm

PPS
(Y/N):

No

CURVED CARAPACE LENGTH:

68.5 cm

WIDTH:

59.5 cm

HEAD WIDTH:

9.8 cm

AXIAL:

22.3 cm

LATERAL:

22.8 cm

TAIL LENGTH: T

12.0 cm

C

6.0 cm

RIGHT FRONT FLIPPER WIDTH:

10.5 cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

53.3 cm

WEIGHT:

70.3 #

LIVE TURTLE EXAMINATION RECORD

29 APR 2002

Date: 7/26/02
 Turtle ID: KAWAIA BAY 4/25/02
 Comments: Found on Beach
70.3 lbs

PHYSICAL EXAM

Head and neck: normal

Mouth: R - 2 tumors - #2 tumor invasive middle
2 tumors #2 tumor
No other tumors

Eyes: OS - 2 #2 tumors / normal
OD - 1 #2 tumor / normal

Front flippers: 2 - #3 tumor

Shell: flat normal

Plastron: flat, normal

Rear flippers: normal

Tail: normal

BODY CONDITION: well emaciated

SAMPLES TAKEN

PCV 24 T.P. 2.6

CBC _____ Chemistries _____

Others _____

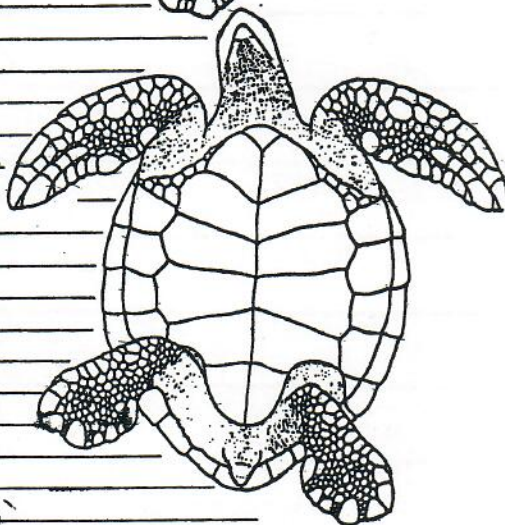
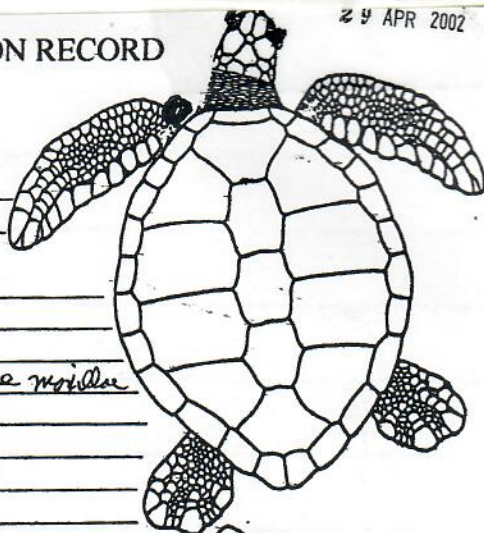
APPROXIMATE TUMOR SIZE CATEGORIES:

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

RECOMMENDATIONS: Weld to see if floats
Asside cryo to eyes & send to Kaula

Signed: Robert O. Wors, DVM

MAKAI ANIMAL CLINIC, 420 Uluniu Street, Kailua, HI 96734



SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/21/02

Dermaph injected into #35 neck and jaw hinge and SME Right Eye.

CAPTURE DATE, LOCATION AND METHOD:

Suzanne Hirata via Regina Luna (SSC) 5-12-02B Police Beach, Oahu

PERSON RECORDING DATA: SME/LY

TUMOR SCORE

3

ORAL TUMORS EXT:

YES OR NO

yes

EMACIATION CODE

1

OLD TAGS:

Empty boxes for old tags

CH

NEW TAGS:

422E54682E



PH

422D760548



STRAIGHT CARAPACE - LENGTH: 63.2 cm WIDTH: 51.6 cm

NOTCH LENGTH: 62.9 cm DB: Ø L.O. VB: Ø L.O.

CURVED CARAPACE LENGTH: 87.5 cm WIDTH: 84.0 cm

HEAD WIDTH: 9.6 cm AXIAL: 24.3 cm LATERAL: 24.0 cm

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

TAIL LENGTH: T 11.5 cm C 8.5 cm

RIGHT FRONT FLIPPER WIDTH: 10.0 cm SAMPLES COLLECTED:

PLASTRON LENGTH: 49.9 cm

WEIGHT: 70.6 #

DESCRIPTIVE REMARKS:

3 x 3.5cm necrotic patch on 2nd lateral right

too left and right 3rd lateral
MOTOHIPPO

Released 1045 AM 5/21/02 KAWAII KALUA Bay

Revised 03/28/01

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

1 5 17

SEA TURTLE NECROPSY / TUMOR FORM

DATE FORM FILLED OUT 05/13/02B

NECROPSY DATE: / / MTRP STRANDING ID 05-12-02B

CONTACT: <u>Suzanne Hirata (Regina LUNA)</u>	DATE: <u>05-12-02B</u>	LOCATION: <u>Police Beach, Oahu</u>
PERSON RECORDING DATA: <u>SKB + DB</u>		

DESCRIPTIVE REMARKS:

PIU 05-13-02 from MAC log SKB + DB and taken
to NMFS-LRRF.

adult leeches + leech eggs (neck)

TUMOR SCORE:

3

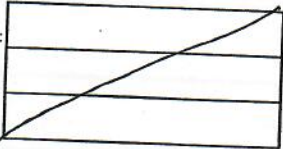
ORAL TMRS EXT:
YES OR NO

yes

EMACIATION CODE:

1

TAGS:



SEX: Male, Female
or Undetermined

DB:

VB:

STRAIGHT CARAPACE - LENGTH:

63.0 cm

WIDTH:

51.6 cm

NOTCH LENGTH:

62.9 cm

PPS
(Y/N):

Y

CURVED CARAPACE LENGTH:

87.5 cm

WIDTH:

82.6 cm

HEAD WIDTH:

9.9 cm

AXIAL:

24.9 cm

LATERAL:

24.5 cm

TAIL LENGTH: T

13.0 cm

C

8.0 cm

RIGHT FRONT FLIPPER WIDTH:

810.4 cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

52.1 cm

WEIGHT:

73.9 #

**DIKUMEX - WILD RELEASABLE
LIVE TURTLE EXAMINATION RECORD**

Date: 5/13/02
 Turtle ID: Police Beak 5/12/02B

Comments: 67cm - active - on beach -

PHYSICAL EXAM

Head and neck: neck 3 - #2 tumors, 1 #3

Mouth: gummy tumors #2, Scurfing
Ryod #3, left #2

Eyes: OS - 3 tumors #1, OD #3 tumor
swelling white eye - also visual - on limited

Front flippers: R. 1 #1 tumor

Shell: normal

Plastron: firm / flat

Rear flippers: normal

Tail: normal - possible female -

BODY CONDITION: Mild emaciation -

SAMPLES TAKEN

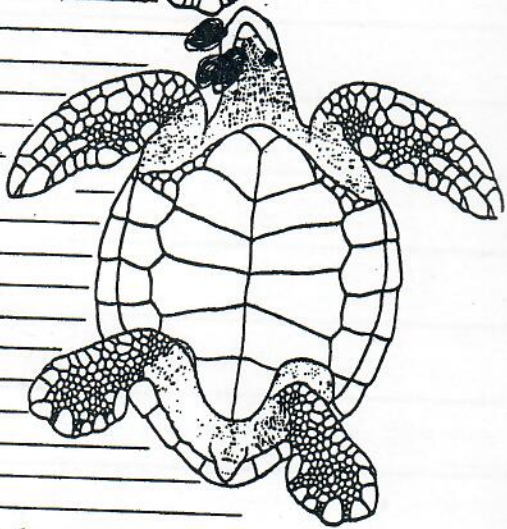
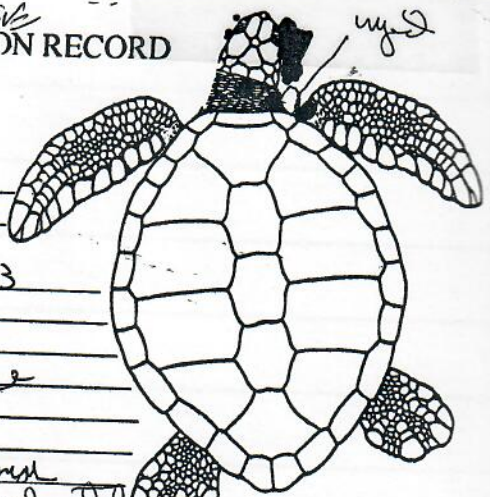
PCV 26 T.P. 5.0 wt - 73.9 lbs
 CBC _____ Chemistries _____
 Others _____

APPROXIMATE TUMOR SIZE CATEGORIES:
 #1 = DETECTABLE PATCH TO 1CM DIAMETER
 #2 = >1CM TO 4CM
 #3 = >4CM TO 10CM
 #4 = >10CM

RECOMMENDATIONS: gummy jawline tumors OD eye
visual - very strong - active - plan / hold at Kaula
to discuss w/ plan - seems too active to PIS

Signed: Roberta Mous - DVM

MAKAI ANIMAL CLINIC, 420 Uluniu Street, Kailua, HI 96734



MEDICAL HISTORY - CLINICAL RECORD

NMFS

OWNER NAME POLICE BEACH (5/2/02)		ADDRESS		TELEPHONE
PATIENT NAME	SPECIES	BREED	SEX	COLOR AND MARKINGS
ALTERED YES <input type="checkbox"/> NO <input type="checkbox"/>	BIRTHDATE	SPECIAL INFORMATION STRANDW - DERMALEX	LAB	X-RAY

DATE	TEMP	DESCRIPTION
5/22/02		TO receive Dermex injection & be released - Lot # 714
		(1) Right neck tumor - 8.5cm circular tumor - Inject base - 4cc Dermex
		(2) R. Salivary tumor 11mm narrow base 1cc - Inject into tumor
		(3) eye tumor 5cm tumor 2 1/2cc Dermex inj.
		all inj w/ 16ga needles
		Release today 5/22/02 (RM)
		KAWAIIKI
		Kailua Bay
		10 45 AM

3 PAGES FOR YONAT

Revised 04/04/01

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SEA TURTLE TAGGING FORM

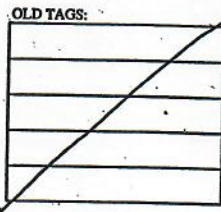
For KRF
Captive
Study

DATE FORM FILLED OUT 5/23/02

CAPTURE DATE, LOCATION AND METHOD:

5-23-02 Kareoke Bay Kapapa Choy
PERSON RECORDING DATA: SME Hand/snorkel

TUMOR SCORE
 0
ORAL TMRS EXT:
YES OR NO
 -
EMACIATION CODE
 0

OLD TAGS:


NEW TAGS:
RHF
RFL 42505F4907
JLF
LHF 4233662C45

STRAIGHT CARAPACE - LENGTH: 40.4 cm WIDTH: 33.3 cm

NOTCH LENGTH: 39.0 cm DB: 0 L.O. VB: 3 L.O.

CURVED CARAPACE LENGTH: 42.5 cm WIDTH: 39.0 cm

HEAD WIDTH: 6.7 cm AXIAL: 16.4 cm LATERAL: 16.5 cm

FPS: YES OR NO OR NE yes SEX: Male, Female or Undetermined U

TAIL LENGTH: T 8.0 cm C 5.0 cm

RIGHT FRONT FLIPPER WIDTH: cm SAMPLES COLLECTED: 5/23/02

PLASTRON LENGTH: 32.4 cm TO MAC

WEIGHT: 22.0 # for Health

DESCRIPTIVE REMARKS: Screaming

Mototoo "Kc2" on 3rd lateral right w/ white paint

HOV 64070

NMFS, HONOLULU LAB
Marine Turtle Research
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SEA TURTLE TAGGING FORM

FOR KRF
CAPTIVE STUDY

DATE FORM FILLED OUT 5/23/02

CAPTURE DATE, LOCATION AND METHOD:

5-23-02	Kaneohe Bay	Kapapa Choy
PERSON RECORDING DATA:	SMB	Hand/Snorkel

TUMOR SCORE 0

ORAL TMRS EXT: YES OR NO -

EMACIATION CODE 0

OLD TAGS:

NEW TAGS:

KRF 424E681B37

JRF 425001233E

HFP

STRAIGHT CARAPACE - LENGTH: 45.2 cm WIDTH: 37.5 cm

NOTCH LENGTH: 44.5 cm DB: 24 L.O. VB: 8 L.O.

CURVED CARAPACE LENGTH: 48.0 cm WIDTH: 43.5 cm

HEAD WIDTH: 7.5 cm AXIAL: 76.6 cm LATERAL: 16.5 cm

FPS: YES OR NO OR NE N SEX: Male, Female or Undetermined U

TAIL LENGTH: T 8.0 cm C 5.5 cm

RIGHT FRONT FLIPPER WIDTH: cm

PLASTRON LENGTH: 36.6 cm

WEIGHT: 27.0 #

DESCRIPTIVE REMARKS: for health screening

SAMPLES COLLECTED:

5/23/02

TD MAC

Plastron Looks a little flat PCA
Nototool "KCI" on 3rd lateral right w/ white paint

cate

Revised 04/04/01

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/23/02

FOR
KRF
Captive Study

CAPTURE DATE, LOCATION AND METHOD:

5-23-02 Kaneohe Bay Kinzie's Reef
Hand/snorkel

PERSON RECORDING DATA: SAE

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

RHF
RFL
LHF
LFL

423B2E4C03



424E2C696A



STRAIGHT CARAPACE - LENGTH:

46.8 cm

WIDTH: 37.4 cm

NOTCH LENGTH: 46.0 cm

DB: 27 L.O.

VB: 55 L.O.

CURVED CARAPACE LENGTH:

49.5 cm

WIDTH: 45.0 cm

HEAD WIDTH: 7.6 cm

AXIAL: 19.7 cm

LATERAL: 20.1 cm

FPS: YES OR NO OR NE No

SEX: Male, Female
or Undetermined

U

TAIL LENGTH: T 10.0 cm

C 7.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

5/23/02

PLASTRON LENGTH: 37.6 cm

TO MAC

WEIGHT: 34.0 g

for health
Screening

DESCRIPTIVE REMARKS:

Right side of head has a small healing puncture wound
Notched "K" on 3rd lateral left w/ white paint.

100000
 Released 6-7-02
 Beach Park 869
 5 km

1100AM

Revised 04/04/01

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

FOR RELEASE FEB 2002
 YONAT
 STUDY

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 2/19/02

CAPTURE DATE, LOCATION AND METHOD:

2/19/02	Arnold's Reef	Hand
PERSON RECORDING DATA: SME <i>Kamechik</i> Snorkel		

TUMOR SCORE

0

ORAL TMRS EXT:
 YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

NEW TAGS:

RFL	
LFL	

STRAIGHT CARAPACE - LENGTH:

41.7 cm

WIDTH: 33.5 cm

NOTCH LENGTH:

41.4 cm

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH:

44.0 cm

WIDTH: 38.0 cm

HEAD WIDTH:

cm

AXIAL: cm

LATERAL: cm

PFS: YES OR NO OR NE

-

SEX: Male, Female or Undetermined

-

TAIL LENGTH: T

cm

C cm

RIGHT FRONT FLIPPER WIDTH:

cm

SAMPLES COLLECTED:

Blood Spec

PLASTRON LENGTH:

cm

hematology for

WEIGHT:

20.6 #

Dr. Morris

DESCRIPTIVE REMARKS:

Mototool "Y" on 3rd lateral left
 Taken to NMFS lab and held overnight.
 Transferred to NMFS KRF on 2-20-02

Small piece
 of scute
 peeled off
 when
 Yonah took
 of base plate
 in test attachment

Revised 04/04/01

Released
7-6-02
Grady Beach Park
11:00 AM

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

SEA TURTLE TAGGING FORM

"Y" Moto tool

DATE FORM FILLED OUT 6/5/02

KRF Yonet Study

CAPTURE DATE, LOCATION AND METHOD:

02/19/02	Arnold's Reef Kaneohe Bay	Hand/ Snorkel
PERSON RECORDING DATA: SRB + DB		

TUMOR SCORE

0

ORAL TMRS EXT:

-

EMACIATION CODE

0

OLD TAGS:

NEW TAGS:

RFL	424E6D1D01
LFL	423F392470

STRAIGHT CARAPACE - LENGTH:

42.5 cm

WIDTH: 34.1 cm

NOTCH LENGTH:

42.2 cm

+ 0.8 cm

DB: 0 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

44.5 cm

WIDTH: 39.0 cm

HEAD WIDTH:

7.4 cm

AXIAL: 16.8 cm

LATERAL: 16.7 cm

PPS: YES OR NO OR NE

N

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

8.5 cm

C 5.0 cm

RIGHT FRONT FLIPPER WIDTH:

7.5 cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

38.6 cm

WEIGHT:

23.6 with #
Electronic
Scale

DESCRIPTIVE REMARKS:

4 MONTHS =
+ 3 lbs gain
"Y"
Moto tool "Y" on 3rd dorsal left

*Released
6-7-02
11 AM, KAPPA*

SEA TURTLE TAGGING FORM

"W" Moto tool

KRF Yanet Stud

DATE FORM FILLED OUT 6/5/02 *Heard*

CAPTURE DATE, LOCATION AND METHOD:

22/19/02	Anold's Reef Kenehe Bay, Oahu	Hardy snorkel
PERSON RECORDING DATA: SKB + DB		

TUMOR SCORE

LHF

ORAL TMRS EXT:

YES OR NO RHF

EMACIATION CODE

OLD TAGS:

424 D3 E7 473
407 D3 A211D

NEW TAGS:

RFL
LFL

STRAIGHT CARAPACE - LENGTH:

56.7 cm

WIDTH: 46.0 cm

NOTCH LENGTH:

66.3 cm

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH:

61.0 cm

WIDTH: 54.0 cm

HEAD WIDTH:

8.7 cm

AXIAL: 22.6 cm

LATERAL: 21.5 cm

PPS: YES OR NO OR NE

SEX: Male, Female
or Undetermined

TAIL LENGTH: T

12.0 cm

C 9.0 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

9.8 cm

PLASTRON LENGTH:

45.7 cm

WEIGHT:

54.5 #

DESCRIPTIVE REMARKS:

4 MONTHS
- 0.8 lb LOSS
 RHF 1/2 missing + healed
 LHF 1/4 missing + healed
 Moto tool "W" on 3rd lateral right
 knobby projection protruding from LFF

MULTIPLICATION TABLE

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

CONVERSION TABLE

LENGTH

1 meter (m)	=	100 cm	=	1,000 mm
1 millimeter (mm)	=	.001 m		
1 centimeter (cm)	=	.01 m		
1 decimeter (dm)	=	.1 m		
1 decameter (dkm)	=	10 m		
1 hectometer (hm)	=	100 m		
1 kilometer (km)	=	1,000 m		

CAPACITY

1 liter (l)	=	100 cl	=	1,000 ml
1 milliliter (ml)	=	.001 l		
1 centiliter (cl)	=	.01 l		
1 deciliter (dl)	=	.1 l		
1 decaliter (dkl)	=	10 l		
1 hectoliter (hl)	=	100 l		
1 kiloliter (kl)	=	1,000 l		

WEIGHT

1 gram (g)	=	100 cg	=	1,000 mg
1 milligram (mg)	=	.001 g		
1 centigram (cg)	=	.01 g		
1 decigram (dg)	=	.1 g		
1 decagram (dkg)	=	10 g		
1 hectogram (hg)	=	100 g		
1 kilogram (kg)	=	1,000 g		

GRAMMAR RULES

- There are eight parts of speech:

- NOUN**- the name of a person, place or thing
- VERB**- an action word
- ADJECTIVE**- describes a noun or pronoun
- ADVERB**- describes a verb, adjective or another adverb
- PRONOUN**- substitutes for a noun
- PREPOSITION**- connects a noun to another part of the sentence
- CONJUNCTION**- connects words or ideas
- INTERJECTION**- an exclamation

- Some verbs need helpers.

INCORRECT

I be / You be
I ain't / You ain't
I got to
I seen
I done

CORRECT

I am / You are
I am not / You are not
I have to
I have seen / I saw
I have done / I did

- Its is possessive. It's means "it is" or "it has".
Your is possessive. You're means "you are".

- Which word do I use?

Lay or Lie?

To "lay" is to place an object. To "lie" is to recline.

Affect or Effect?

To "affect" is to influence. To "effect" is to cause.

- Punctuation

A **comma** is used to indicate a pause within a sentence, and to group words that belong together.

A **colon** is used prior to a list or long quotation.

A **semicolon** indicates a greater pause than that which is indicated by a comma; and is often used between groups of words separated by commas.

An **apostrophe** is used to indicate the possessive case of nouns as in *Jenny's pen*; to form a contraction as in *I've* or *they've*; and to form the plural of a letter or number as in the three *R's*, *7's* and *11's*.

An **hyphen** divides words in syllables such as compound words like *twenty-five*.

A **quotation mark** indicates the exact words someone spoke. Use with titles of songs, short stories, chapter titles, short plays, television programs, magazine articles and poems.

Underlining is used with the titles of books, movies, newspapers, magazines, long plays and poems.

