

86 Nov. - JUNE 87

PAST TERM MEETING:
22-25/10/85
5/86
4/86 ABBREVIATED

BALAZS
HONOLULU LABORATORY
Southwest Fisheries Center
2570 Dole Street
Honolulu, HI 96822-2396

REC. TERM = 20-23 JAN 87

BALAZS
2 OF 2

SLP
p. 33, 43, 51,

NECROPSIES
p. 17-28
p. 59-66
p. 79-83
p. 102-106

LIBRARY OF
FRANCIS & TAYLOR

G. BALAZS

DRAW

NECROPSIES

13 MARCH 1987 - Wayne Jones A: 2
- Barry CHOW
- George CHUN SLP. - Marilyn Major
- Vanessa Gauge

(1)

~~JRH~~

~~Labelled~~

~~HEAD~~

~~Jocass Post Allen
ED SHIMMICK & FERRIS~~

KEWALO DEATH 3/3 = 2/9 Mrs. Scherman

Dimensions

SL x SW = 53.2 cm x 42.7

Mokapu Canal

Swath with p 81

HEAD - 7.7

notch - 53.1

Plastron - 42.8 cm

Numerous small tumors Fat Flip

" Medium " Hind Flip

Tumor on Gular

Leech eggs ventral surfaces

small tumor glottis eyes - no tumors

Slight sunken plastron

#20 STRAND

Sent to Dennis 4/10/87

for Mercury analysis -

Internal observations -

sample → skin, tumor, muscle, stomach wall, heart, liver, kidney, lung, intestine, fat

light fill to intestines

food sample taken

no parasites in heart

black goo in small intestine

Sex - male

Kidney falling apart

Mokapu Canal, Kailua Bay, (TMRS), Mrs. Scherman, 2/9/87, died at Kewalo 3/3/87, SL 53.2

<u>Pterocladia capillacea</u>	99%
<u>Codium edule</u>	1
<u>Amansia glomerata</u>	Trace

②

HALEIWA
HARBOR

3/1/87 dead

by J. Henderson

Lew Conisigleri

no Notch

#

SL x SW = 69.9 x 53.8

HR = 9.8

22

tail - 6½

skull - carapace

one large barnacle

severe deformity posterior left (mostly Head)

Flippers

small fish hook rt flipper

massive tumor LFT front flip

+

Fracture to dorsal Head

massive tumor rt groin (tail)

Sent to
Dennis
4/14/87Sent to
Dennis
4/10/87Interior Observations

frail plastron

stomach full

ova ♀ F

⑨

V Sample → stomach content sample

Haleiwa Harbor, 3/1/87, JRH, S 69.9

<u>Codium edule</u>	80%
<u>Ulva fasciata</u>	20
<u>Acanthophora spicifera</u>	Trace
<u>Amansia glomerata</u>	Trace
<u>Laurencia nidifica</u>	Trace

Tiss
V-

(3)

1987 ~~Standard~~ #25

396-9738

61

"VETTON DIVING" Ventures 3/2/87
"MIKE"

Dimensions
SL x SW = 49.6 x 38.4
NL = 49.0
Head = 7.5

Recovery site =
floating dead by
#1 Buoy,
split on
head =

Sent to
Dennis
4/10/87

severe split on top of head
Bloating - peeling scutes
Tumors - Large Tumor Lft flip
1. Small " rt flip
2 " " Neck
No emaciation apparent

Interior Observations

small 2" piece fibrous tissue in body cavity. No parasites in heart

Tissue collecting - Pectoral muscle, Liver, stomach content
V- Heart, Tumors, Lung, skin (without tumor), intestine, kidney.
Stomach + Intestines - good full almost to capacity. (sample taken from stomach)

Taxeladia P.C. - stomach content

sex-male

Hawaii Kai, Vehon, 3/2/87, SL 49.6cm

<u>Gelidiella acerosa</u>	99%
<u>Acanthopora spicifera</u>	1
<u>Amansia glomerata</u>	Trace
<u>Gelidium sp.</u>	Trace
<u>Ulva fasciata</u>	Trace

(4)

Shard #17

2/5/87Kaneohe Bay
blood takenReported
by- Bob Maui→ Heaia Pier
Srock shop

Dim

PL - 42.3

SL x SW = 52.2 x 41.1

SN - 51.7 head - 8.1

large tumors on tail, hind flipper

small " on eyes

sunken PL

leach eggs

(contusion) fracture on head

internal observ

✓ sample → muscle, tumor, skin, stomach contents, heart,
stomach, lungs, intestine, kidney
abundant of P barnacles

female - has scarred ovaries

heart has no parasites

food sample

✓ slight fill to stomach

→ hard fecal pellet along intestines
(no plastics)

1 small plastic walled off by small intestine

→ blue packing strap

Sent to
Dennis
4/10/87

Kaneohe Bay, Bob Maui, 2/5/87, (TMRS), SL 52.2

Codium edule
Sargassum echinocarpum
Barnacle
Sponge spicules

99%
1

Sent to
Dennis
4/10/87

Inte

(5)

No Label

Dim

PL - 40.2

SL x SW → 51.0 x 42.6

head - 7.7

Sent to
Dennis
4/10/87

Severe Emaciation

slight leach eggs

white coraline on carapace

very black head & dorsal flippers

carapace contusions

No tumors

Internal

no parasites in heart

Full intestines

→ sample → stomach,

Male

Turtle Bay, JRH, 3/87, SL 51.0cm

Codium edule
Amansia glomerata

99%
1

STRAND #12

1/27/87 Kahaluu
Balazs & Wong

SL x SW = 37.8 x ?

SN - 37.3

head 6.0

two propeller slashes right body

photos taken

White PL

Sent to Jenni 4/10/87

internal observation

no barnicles

no algal growth

#8 V samples → fat,

thick fat layers

sex → Male

DR → little algae in stomach

small intestine - empty

lower " - pockets of debris

algae stomach sample collected

all debris collected for cleaning

photos taken:

Now in BAG in file cabinet

PLASTICS

Kahaluu, stomach, 1/27/87, possible arrival from pelagic habitat.

Amansia glomerata	30%
Codium edule	20
Dictyosphaeria cavernosa	10
Hypnea musciformis	10
Sargassum echinocarpum	10
Valonia aegagropila	5
Acanthophora spicifera	Trace
Dictyota acuteloba	Trace
Ectocarpus indicus	Trace
Sphacelaria tribuloides	Trace

Int

Sent to Jenni 4/10/87

Mak 2/10/87

Halophi Sponge Several

Ce

(7)

"Makani Kai"

70 Kewalo

65

2/10/87

Died at Kewalo

11/20/86

also see Straub

SL - 66.0

NO. 87

measurements taken when turtle died

1986

Severe emaciation
numerous tumors

Internal

Female

(#4) → V sample → tumors, muscle, skin, heart, lung, liver, intestine, kidney

brown fluid in small intestine
(small particles)

Sent to
Jennis
4/10/87

intestine sample taken
no heart parasites

Died at Kewalo tank following
several months in captivity.

Makani, Kaneohe Bay, 11/20/86, SL 66.0, Died at Kewalo
2/10/87

Halophila ovalis

99%

Sponge spicules

1

Several cyst-like structures present (see drawing below)

→ Cessation of digestive process

8

MIDPACIFIC-
834-7654

HAWAIIAN CARGO - 264 16

ALOHA FREIGHT =
836-4191

836-7271

20¢
to phone

1/12/87

Miller

Kailua Beach

#10 NAMALA

Sent to
Jennis
4/10/87

SL - 67.2

SW - 53.5

head - 9.3

external observations

75 plus barnacles on carapace

eyes picked out

15 plus barnacles on plastron.

internal observation

V sample →

stomach and intestine full

stomach sample taken.

Kailua Beach, Miller, 1/12/87, SL 67.2

<u>Codium edule</u>	99%
<u>Acanthophora spicifera</u>	1
<u>Hypnea musciformis</u>	Trace

ALOHA
3/15 Sun
MESSAGE
WPPD Rec
Paul
& I picked

STRAN

Directly

ALOHA AIRLINES - FL 42 7:50 AM Depart Direct 3/23 Mon.
Return 3/26 Thurs. 9:55 am 67

3/15 SUNDAY
MESSAGE ON
WPPD Recorder -

Paul HAUPT
& I picked it up.

STRAND

#30

Craig Nakamura

239-6394

47-895 KAM HWY

Kaneohe

Dead turtle washed up Sunday

~ 2' long.

Also reported
on 5/17/86
C-89.5 by
his house.

S- 61.2
SN 61.0

9 Barns carapace.
Advanced blot

med. -
2 large med neck dorsal
2 small right axial
1 med.-large dorsal grain
right

2 photo in the back of pickup.

Directly Dumped at Kailua Landfill.

3/17
TUES.

Cara Self Hawaii Pacific College
 - Doing a report on shark attacks -
 Referred to me by Steve Kaiser.

STRAND

#31

MESSAGE from
ROBIN VIA KEN

COMMENTS:

3/18/87 Robin VITKEN
 Rick from Tern Is. brought
 a severely tumored turtle in
 from East to Tern and
 wants to know if you would
 like it back here..... The
 Ferusa goes through tomorrow
 or Friday - Call Ken ASAP

18 MARCH 87
 KILAUEA Pt. LECTURE

822-7141
 Met Bert ^{and Janice} Lyon at Kilauea Pt.
 call her for Autopsy session:
 [Marty East
 922-744

Robt -
 - 2-AA
 LIGHT?
 → Check
 GSA BAG
 → Small tubes
 formalin

- BANG STICK camera/flash/film - SIDE CUTTERS
 - cloth to cover anchor in tube - LINE for (clothes 69)
 → Binoculars → NOAA CAP side cutters anchors line
 → propane torch from Home - MILEAGE PLUS → LIGHT Neon (Seas
 → TAGS → STOMACH TUBES → LINDA - AIR MATTRESSES → Buy propane
 - Sleeping BAG → in Hilo (Map?)
 → FOLDING CHAIRS

- 2 Tubes + 7-8 floats

#1
 1 box - large box (2) - 10' x 60' 12' north + 12 chain
 - Bedding for Robert

#2
 9' x 74' cylinder
 7' x 80' tan + oval floats
 all oval floats
 2 12' north + chain
 2 Swivels
 2 lengths of rope

#3
 6' x 78'
 5' x 60'
 2 Swivels
 4 lengths of rope
 2 length short - jack lines

#4
 8' x 60'
 2 coral anchors + chain
 - 1 TARP
 - Rope + JACK lines
 - TENT

→ Red cooler ICE CHEST
 - First Aid - SPRAY
 - T.P. - PAINT - CB RADIO
 - TAGS - TOOLS
 - Handouts TO TOURISTS +

STRAND

OLIVE

RIDLEY

CATER

DIED

AT KEWALO

BASIN

3/27/87

#32

George - 49-577 Kam Hwy

3/19/87

The turtle is ~ 3' long
w/ much of its front flippers
missing. It's being kept in the
shade & cooled down w/ H₂O
occasionally.

It may be at Kualoa Ranch

but the number to call is

237-7025. Ask for

Joe McCabe or

Frazier (last name?).
Black

Bill prefers to keep the

Aquarium out of it in case

we have to put the animal down.

He also recommended having
Morris or McKay check it out over (over)

3/19

Picked up by me and Linda
and taken to Kewalo. Floats
high.

Local surfer mentioned
seeing lots of turtles with
turns - Same for Frazier.

See page 74

3/20

Carol McLean

247-3156

Box 698

Friends of Heia
State Park

Kaneohe

offshore Shiman estate
 Miles Kaichi mentioned seeing a
 concentration of turtles (like off Punaluu)

23-25 MARCH 1987

PUNALUU NETTING w/MOP
 R. FORSYTH

~~sent~~Norman FREITAS

3/26

Called concerning olive ridley
 w/ro front flippers.

Resent
 Returned
 again -
 address
 unknown

2149 KAATHUMAND Street
 PEARL City, HI 96782

DAVID GULKO HPA 885-7321
 P.O. Box 428
 KAMUELA, HI 96743

STRAND
#33

MESSAGE JBE Wong

DEAD TURTLE IN MIDWAY;
NO ENFORCEMENT CASE; STEWART
KNOWS ABOUT IT & IS HANDLING
(GEO. CALL STEWART WHEN RETURN?)

RECEIVED BY	DATE	TIME
JPH	3/23/87	1445

63-110 NSN 7540-00-634-4018 STANDARD FORM 63 (Rev. 8-81)
Prescribed by GSA
* GPO : 1983 O - 381-529 (314) FPMR (41 CFR) 101-11.6

3/26/87

Found
3/23/87 Sand Is. Midway 18" carapace buried
behind security building - Midway.
Beside another one that was
found dead a few weeks ago -
(as per NMFS enforcement).

4
25
18
20
25

3/26/87

50 CFR 1731 [KIM WRIGHT
DISCUSSION]

1980 letter from WPD to RSS subsequently sent.
+ Form letters to Stewart refer

3/24

STRAND

Call from Susan - Haleiwa boat
harbor saying another turtle
sighted near where recent
dead one was found.
637-6090

TAGS

73

3/26/87 1 pliers & 6816-6850 (35)
found in bucket from last 1986
field season.

originally checked out for LAYSAN
6813-6850 (38 total).

Three tags therefore used:

6813, 6814 & 6815.

April 1987
found dead
on W. Laysan
cc 76 cm
cw 73 cm

6816-6850 (35) given to R. Forsyth
for Laysan trip.

Also found in bucket:

6935-6950 (16)

from Kure 1986

LISIANSKI

8674-75

2

8701-8725

(25)

8726-8750

(25)

52 total

8669-8673 (5) Apparently
used at LISIANSKI

3/27/87 ^{**} Olive riley without front
flippers found dead at Kewalo
this morning - Michael Wilcox
reported "she" was still
alive last night 3/26

STRAND #34

3/26 5:15 pm call from anonymous person
Thurs. who said he was boating

by reef runway and saw a
2' long dead turtle by reef
runway boat ramp. no head.
I placed call to airport security
at home 237-8117 836-6411 and was directed to
a Noguchi at 836-6569.

Not particularly helpful, but
said he would check on it.

3/27 call to Yonesaki at 6569
yielded no record in security log.

6/26 Later reported only shell
and a little meat there.

3/27 Morning - nothing there. Wray
contacted.

** Telecon report from Dr. Tom Sawa - 487-5351

487-
5351

Saw severe scarring in the kidneys
likely from chronic prior
bacterial infection. Scars like
this often seen in dogs - Used to
think Leptospyrosis

AUTOPSY ON OLIVE RIDLEY - NO FRONT FLIPPERS

A:2 SL 61.2 x 56.0

aided by LINDA BANNISTH, 75

3/27
FRIDAY

Notch 60.6

6-6 laterals
5 centrals

2 photos - dorsal
front

Tissue taken - ① liver, ② heart, ③ lungs, ④ kidneys, ⑤ ovaries. + hard particles from intestines.
6+ squid in stomach; only fluid and particles in intestines.

No obvious signs of pathology.
Developed follicles. oviduct seem "full".

Carapace & head to B.P. Museum

3/27

Talked to Bill Greenhalgh

TEL. 623-6314

94405 MAKAPIPIPI

MILICANI, HI 96789

Gen

Used to work at Abba Dive Shops.
Dives regularly Turtle Canyon, "old turtles"
Sees tumors regularly, Magillieotti
Yesterday saw 14 turtles - all
had some degree of tumors.
He will draw map for me.

T 32 AN (Ph1) 76
14.2569
Sun 10am

Hawaii Chemical
2363 N. King

TEL. 841-4265

"DRY RITE" #7.95 16

~~Need MILEAGE FORM~~

#35

Norman Kwon - Kihuna Dev. 524-7622
Box 737 KAHUNA 96731

Harry KON: 293-8614 caretaker at Kawela Bay.
"SHARON" - Secretary 293-9178

SAT. 3/28 tel. by Derrick, Jim Yarboys
7:15pm roommate of - "300lb turtle close to shore - lethargic - looks like holes in flippers - side of shell "blasted".

3/29 SUN 8-8:30pm - turtle now more toward Roger's house -- no tumors & excessively buoyant.

Jim, I, Christa & Paul drove to Kawela ~ Noon. Turtle gone -- left toward middle of bay 45 min. earlier. Spent ~ 2 hours with Roger searching for it with binoculars -- nothing seen. Roger said size was about as large as the largest we caught netting.

Roger KITEER

3/30 Cromwell departure - MM Gear for FFS
 Bucket #1 10,051 - 10,150

- TABS 9951 - 10,050
- Rubber gloves
- HEAD LAMP (4-D cell) (G.S.A. New) + PLIERS + Reg. pliers
- 2 Rubber gloves
- "Turtle Camp" First-Aid
- 50' clothesline
- PROPANE stove
- 95 AA Batteries; 1 "box" D-cell (24?)
- Spare neon bulb
- LARGE & Small DATA Books

Bucket #2

- 6 - 6 volt (G.S.A. New)
- 12 oz cutters insect repellent
- 1 green, 1 white Lucite spray
- Neon light w/ 2 6 volts inside
- 2-cell D flashlight (new)
- 1 roll fabric tape
- TP (1)
- Sears tent instruction booklet
- WD-40 (1/2 CAN)

- ~~NEED -~~
- Slide cutters ←
 - more togs + pliers
 - Mag lite + all bulbs
 - Single AA lights ✓
 - Data table set-up ✓
 - 35 mm film ✓

~~John-Airport~~

~~Flash~~

~~DISCS data Books~~

~~Styrofoam clothes gloves~~

~~Binoculars~~

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 - 35 mm film ✓

John-Airport

~~Flash~~

~~DISCS data Books~~

~~Styrofoam
clothes gloves~~

Binoculars

JAN SUTHER (Rick's sister = 254-1011)
April 24-30th

4/1 Mike Coelho 671-6684
wed. concerning Kalaupapa nesting report
Summer (?) 1986 30-40yds off
mule trail, "EGG shells found
but no exact dates know".
Send map to mark.

4/2 Jim Margi
THURS. TELEDYNE BROWN ENGINEERING
Cummins Research Park
sent Huntsville, ALABAMA 35811

Concerning Wake - rocket pad construction
USAF 15th wing - Honolulu
George Fujimoto; his boss Gaylord HIGA
449-1831

1. Fore-stomach Tag #3448, 3/11/87, SL 89cm

Hypnea musciformis 99%
Dictyota acuteloba 1

2. Second stomach, Tag #3448, Area #1, 3/11/87, SL 89cm

Sargassum polyphyllum 30%
Sargassum echinocarpum 30
Amansia glomerata 25
Codium arabicum 5
Hypnea musciformis 5
Acanthophora spicifera Trace
Halophila ovalis Trace
Pterocladia sp. Trace

3. Second stomach, Tag #3448, Area #2, 3/11/87, SL 89cm

Hypnea musciformis 99%
Sargassum polyphyllum 1
Dictyota acuteloba Trace
Lyngbya mujuscula Trace

3 APRIL 87
FRIDAY

NECROPSY IN A-2

ASSISTANTS - VANESSA, MARILYN, MARY FAST
WYNNE, Barry CHOI

3/11/87

①

TAG 3448 KANEHOE BAY
MALE 3448 found by Mike NASH & David Greenwalt
drowned in MONO in KANEHOE BAY
SL - 89 cm SW - 62.9 cm

28

STRAND

Notch L -

STOMACH - (~~FORE~~) 22 cm x 26 cm FULL *Hypnea musiformis?*

PL - 67.7 cm. YES

HEAD - 11.0 cm.

TAIL - 52.5 cm

TAG SALVAGED FROM L. FRONT FLIPPER.

SAMPLES TAKEN BY VANESSA for Mercury

PECTORAL MUSCLE

GREEN FAT FROM L. PELVIC REGION

SKIN FROM L. FRONT SHOULDER

HEART TISSUE - R + L ATRIUM, + VENTRICLE

LIVER TISSUE - L. LOBE,

INTESTINE + CONTENTS OF 2ND COMPARTMENT OF STOMACH

STOMACH WALL

LIVER

L. LUNG.

L. TESTICLE

L. KIDNEY AREA

TAPERED FRONT FLIPPERS WELL HEALED.

Cop. Bites

NO OBSERVED BLOOD FLUKES IN HEART

L. HUMERUS saved - frozen

L. LOBE OF LIVER SMALL, R. LOBE NOT LARGE

SHELL TO NAVAL OCEANS SYSTEMS CENTER

KANEHOE MARINE BASE

Head - frozen

3 samples sent to Dennis 4/10/87



②

1/31/87

- PUNALOU, OAHU.

Dead on beach - Gillis

SL 51.0

HEAD 7.8

#14
STRAND

ESOPHAGUS DISSECTED ∴

EYES ROTTED OUT

TUMORS - FRONT FLIPPERS, GROIN,

SCALES + SKIN SLUFFING OFF.

LEACH EGGS ON PLASTRON.

→ CODIUM IN SECOND STOMACH EDULE?

→ AMANSIA IN FORE STOMACH

NO TISSUE SAMPLES FOR VANESSA.

HEART TISSUE NOT EXAMINED

APRIL 3, 1987 necropsy date

GREEN SEA TURTLE

floating dead

81

(3)

2/26/87

Port Allen - Heacock

~~DIED AT KAWAEO BASIN~~

by DOUGIE ED SHIMMELFENNING

(?)

ORIGIN - ~~KAWAEO HENDERSON, MOKAPU CANAL, KAWAEO~~

SL 53.5 cm.

SW. 42.0 cm.

HEAD 8 cm.

TUMORS - BOTH EYES, BOTH FRONT FLIPPERS (LARGE)
GRUIN (LARGE), ~~PERICARDIUM~~

PLASTRIN SUNKEN, W/ LEECH EGGS, SOFT

NO TISSUE SAMPLES FOR VANESSA

NO HEART PARASITES

BOTH STOMACHS EMPTY

FECAL MATTER IN LOWER INTESTINES

NOTE
IN
FILE

Switched
w/p. 59

APRIL 3, 1987 - Necropsy in A-2

(4)

FEMALE

LEN, PORT LOCK, MARCH 3, 1987

Letter in file.

CARAPACE 2ND + 3RD CENTRAL DAMAGED - IMPACT?

SL 54.2 cm,

SW 43.2 cm.

NOTCH 53.5 cm.

HEAD 8.3

HOLE IN GULKER REGIONSTOMACHS KILLED, INTESTINE FULL.HEAD TO MARTY FAST

NO HEART PARASITES.

STOMACH CONTENTS - SAMPLES COLLECTED

ADVANCED DECOM.

Sent to
Dennis
4/10/87

Portlock, fore-stomach, 3/5/87, SL 54.2

<u>Acanthophora spicifera</u>	95%
<u>Laurencia nidifica</u>	5
<u>Hypnea cervicornis</u>	Trace
<u>Hypnea nidifica</u>	Trace
<u>Hypneocolax stellaris</u>	Trace

APRIL 3, 1987 - NECROPSY IN A-2

83

(5)

KAILUA BEACH 1-20-87

BETH HALLENGER

By B. Choy

Female

3 PHOTOS OF TUMOR by M. FAST

DORSAL NECK - LARGE TUMOR 12.5 x 12 cm.

ATTACHED TO SKULL, PRE-CENTRAL -
SCUTE OBLITERATED BY IT

SL 56.5 cm. (MEASUREMENT NOT ACCURATE DUE TO TUMOR)

SW 47.1 cm.

HEAD 8.3

TUMOR - SMALL L. VENTRAL SHOULDER.

PLASTRON - SOFT - SIGNS OF EMACIATION

SLIGHT DEPRESSION

FORE
STOMACH - CODIUM

2ND STOMACH - EMPTY - NEARLY

INTESTINE - FULL

HEART - NO PARASITES.

SPECIMENS TO VANESSA

KIDNEY

STOMACH TISSUE

LIVER

LUNG NODULES. - SAMPLE TAKEN

HEAD TO MARTY FAST

MILILANI RICK SENONES - KURE

ROGER BARNES - MARS AT KURE USCG

3/3 Frang Doug FORSELL -RICK RHIFE - project leader of JACAS4/6/87 \rightarrow Hawkbill "Pomaha" Dig at SLP.
Monday Visited SLP and saw carcass in cooler. Dorsal neck
has gaping woundDiane - Tel. N.Y. = 559 MAIN ST.
Address = CENTER MORTCHES
NY 11934
(516) 878-06414/6 Darrell Kpango \rightarrow large turtle at Kaho
Bob Nishimoto \rightarrow intact; floating high; "white film"to without
note large
shell & log
earlier case -
shell polished
on the wall.#36
STRAND* 4/11/87 Ray Tabata SAW at
Queens Beach
50 yard in inlet
Same fresh -
NO spear - shell intact - 7' long
Same smell2
2.5
24
10
5

Medeiros
BOX 1216
KAAI 96748

SS-GCB = 541-1010

Tel - 822-7980

85

Shp - 822-9680

4/87
sent

Terry Donnelly - Ocean Odyssey
home - 4660 IWAENA LOOP

Zieman study, KAPAA, KAAI, HI 96146
at West Beach?

4/8
Wed.

ROGER OLSEN P.O. BOX 29791 HONO, HI 96820
537-4944

#39

Called from Haleiwa Harbor payphone 637-9598,
Referred by SLP (Vicki) (also WPO recorder).
Susan - 637-6090

STRAND
Drove there alone - SL - 70cm resting
in shallow water in #200 slip row where
ripple cement and boulders come together.
RFF 1/2 off (Shark) some scabbing present.
Possibly portion of L Hind severely torn.
Blew curious-looking bubbles through
(out) its nostrils. Swam to
the middle when I approached close.
Possibly skinny. Elderly fishermen said
they'd seen a turtle there for a month.
Dead turtle brought in early
March, while I was gone, was
found in this same area.

4/9

MIKE BAKER - 948-7055^{1?}
988-7163

Thurs.

Call to Diane Medeiros - 3 months
ago large tiger seen "playing" with turtle
off Pau Haha (morning). Also, population seen
~ 3 miles to the east.

PHIL BRUNER TEL. 293-3820

BYU-H
Box 1775
LAIE, HI 96762

10:30 AM

11 April 87 Call from FWS answering
Sat service at home - "Don" (Dawn)
concerning call from - Mary CORDEIRO
47-853 Kaha

1-2' beach alive (?) turtle.

call Bill at DOCAE - will
send officer to the address.
B. Ferrandez at HUMB (vol. officer) said
someone went to that address, turned
the turtle around, and it
swam out.

STAND

#38

ROT STAGE System
TO KAPAA LANDFILL by me

14 APRIL SL- 76.5 Bloat - distended
11 AM TUESDAY TPRS - L groin medium
R " small

#39

apical - small low
neck small & ~ 1" diameter
one eye melted (?) out.
Scales sloughing off bad.
All of the head.

STRAND
#39

Found Monday afternoon by
PETER BOSTON

45-306
LEHUVILAST tel. 247-6185 =
Kareoke 96744

KEITH Smith

about 1/2 mile out in Kareoke Bay -
towed it ^{TO THE PIER} back with his zodiac.
"100 lbs" + witham estimate. Bought
to Kewalo ~ 5:30 pm in Withams
car. First brought to A-2,
then to dump. ^{NO} samples. NO photos.

- 4/15 Bobby HIND - 329-8981 \$2000
- Wed. MARK RICE - 885-7321
- DAVE GULKO - 885-4139
- HPA - Box 428
Kamuela, HI 96743

Need
TAPES
in BAGS.

NOTED - LOW TIDE

53-700 KAM Hwy & Pottoli -
Massive net coral
in dipping ditch
on the beach.

Terry Walter's sister "Pats of Punaluu"
53-515 Kam

4/17/87 Lots of Ulva on nearshore rocks
FRIDAY + Acanthopora.

Kahana Bay - north side: Boulders
near shore with Pterocladia.

#45
STRAND

Kualoa area - Hypnea musciformis
nearshore abundant.

Morning call at home from Bill - Cam
report of "300 lb" turtle on the
beach at Punaluu.

First house
on left after
Punaluu Beach Park

RONALD AND Blanche HARBOTTLE
53-326 KAM Hwy
(HAUULA, HI 96717)
TEL. 237-8388

Ronald originally thought it was a rock.
Dirty shell - brown growth.
He turned it over, but then
righted it when he realized he couldn't
get it over the low-tide bare
rubble. Flagged down a police
car. Haole & Hawaiian carried
the turtle to the water. Swam
off very slowly. Officers read
tag "UH 4264".
I drove there, saw intertidal spot
where turtle had been, and
interviewed couple. They thought turtle

Opp?

From
Kalihihi
Station
293-8565

(continued) one eye looked bad.

4/17 may have nested, no such possibility.
 FRIDAY They have a small boat enter
 ocean by stream. Set gill in
 green area not too far from shore. Caught
 a turtle not too far ago. It escaped. Made
 holes in their net. Set net overnight -
 pick up at sunrise. Mullet, veeki, etc.
 Not many turtles seen by them.
 Catch sting ray. A few weeks
 ago a woman down the way
 found a turtle on the beach -- took
 it out to water. Said not to be
 the same - that one much smaller.
 Terry Walker's sister? " "
 They have eaten turtle - Palohan
 with Shoyu".

MALE
 ENT.
 NO. 126

Recovery
 DATA

4261 LFL 6/12/84 MALE BASKER tagged by
 me 10 pm NE Sandbar TERN.

4/19 Mrs. Harbottle called at 7:50am -
 Sunday Turtle was on the beach, but crawled
 back on its own -- more in a harem
 direction.

4/20 called
Sam Sadove Okeanos to
 recommend Diane Mazarakis

4/28 Reported dead washed ashore ^{TAG 4261}
at Bellows - picked up by
GENE NITTA. BAD
emaciation

sent more
brochures
- seal poster

4/19 at home
Call from Mrs. Scherman
concerning stranded turtle on
her property. Drove
there and examined site on
4/20 Monday. Reported to have TMS.

STRAND
#46

Kahuku Station -

293-8565

4/20 ^{offices} Steve, Takahashi - HPD
Monday Kahuku Station found
turtle at 8am Poles
547-548, Puualue Beach,
Park. Sawan read tag
"4216" to Steve.
Thought to be a "nest".

4/22 At intersection of St. Louis &
7:10 AM Wai'aleae. Car in front, white compact,
Wed. MORNING was in intersec. when light changed. Started
backing up. I started to backing to work room.
Red car was sufficiently far enough behind me
to do so. However, black (pruner) Camero (?)
front end was sticking out of Chevron drive-up
into lane. I didn't see that. Heard

gentle "rub", so applied brakes. After a few minutes, local man tapped on my passenger window. I assumed he wanted to pull off to inspect. Light changed so I turned right & pulled into gas station. but he proceeded through intersection, waited 10 min, 725 to see if he returned. NO. So went to work.

4/21/87 MS. MARSHA TESKE
TUES.

PUNAHOU School
CASTLE HALL
1601 PUNAHOU St.
HONOLULU, HI 96822

TEL. =

Concerning releasing 50 balloons
at chapel - Asked FAA if
a permit was needed - NO.

4/20 ^{evening} Radio call to John Henderson at
Monday Tern Island - On Sunday a
yearling seal was found dead tangled in
a fishing net on Shark.
Aggregation of small turtles (juveniles)
present on west (landing craft) side
of W-5.

4/24 Dan "Take Pride in America" Hotel

4/15/87 KAILUA-KONA ATTACK
ON DANIEL KENNEDY

West Hawaii Today → 329-9311

Sam Sadove - (516) 728-4522
home - 516-722-8160

L.T. (415) 221-5100
750-7286

4/24 ^{never able to confirm} Mrs. FULTON 955-4237

Details of past shark attack
- near turtle bay?

4/24 ^{have} WEST HAWAII TODAY 4/22/87 wed.
Quotes John Naughton

4/24 ^{FRIDAY} Nishimura will send me today's
Tribune Herald - Shark
attack article + obituary.

CCL-63cm

235-2192

4/26 ^{Sunday} Bob Mau - The Deli - Heeia Pier
called at home to report turtle
dead, towed in. by VINCE GERONA

Picked up - 9 AM 4/27 Monday
by me. Tried to load dock
but broke loose and drifted
between slips.

Swollen neck, bloated body,
peeling scutes. Advanced.

TRS - 10cm right ventral shoulder.
1.5 cm left ventral groin.

Taken to ^{directly} Kapaa landfill

STRAND

#47

STRAND #48
cont

TEL. - 638-8155 93

4/27
Monday

Mike Miller called from
Haleiwa Harbors masters office.
59-281 KENUI ROAD
Sunset Beach

Small turtle tangled in gill
net - washed ashore a few
days ago at neighbors
photos taken then. Now on
his property -- they pushed it
back into the water.
→ I picked it up; put in debris 'by Mark
CUNNINGHAM, EUKAI LIFE GUARD. Tower = 638-7813
HOME = 638-9689

MARK MARTINSON

STRAND #49

Cluster in shallows
in front park

4/28
TUES.
found by BOAT
RAMP
4/27 MON

Call from Bonnie
Mercado - Kailua Beach
Park keeper (Kalama end, as
opposed to Lanikai end) has
received a dead turtle
from someone who found it on the
beach. PAYPHONE = 261-9356
+ 5" TIGER SHARK DEAD ON THE BEACH.

sent

Barry Moore 512 KAHAA
KAILUA 96734

4/28 Message from Stewart Fefer saying
a third turtle is now in the
"Midway Cemetery".

STRAND

Included
in # 33

Mrs. Scherman
262-6200

4/29
Wed

ROSAMOND SULLIVAN

tel 395-5688

620 KOKO ISLE

HONOLULU, HI 96825

4/29

VICKI KUNZ

477 SPRINGBROOK NORTH

IRVINE, CA 92714

sent

Freshman at -

Orange Coast College

doing a report on breath-holding
by sea turtles.

Visited Kahala - 3 ♂ 2 ♀ - 1 FAT above hinds.
attempted ^{HILTON} copulation; scabs; ^{resting on submerged rock} no others (show fat).
Stephanie concerned about hard protrusion under tail seen while
basking on sand bar. Cloaca - probably from copulation.

4/29
Wed

Call from Stephanie - Kahala Hilton
turtle caretaker for SLP. Took over
from John Fairfax in May 1985.

5 turtles fed 7 days a
week - 2-3 lbs of lettuce &

5-7 lbs of fish.

one turtle has a hard
flap bulge by hind flippers.

4/30

Mike Bater 948-7055

GEOGRAPHY Dept. - 4th Floor

5/2
SAT.

Stephanie Hilton
of B.H.F.W. - Ocean Watch

11
+ 1

R.S. 2423 Rocky BRANCH RD.
VIENNA, VA 22180
(703) 281-5198

#51

~~STRANA~~

5/2
SAT.

Call at home from SLP
concerning "2 1/2" tumor turtle beached
near Hawaii Kai boat ramp.

Jay Dowsett, Assists. to Tim Guild, SLP
259-7933

Karen & ♂ drove there, but
didn't pick it up because they
had "no tank to keep it in".

I drove there from Kamehame and
picked it up.
Aggressive for keeping shells.

William FIELDER

GENERAL DELIVERY
AIRPORT, Honolulu 96820

+ Lee

+ 1-2 kids

live at Keiki Lagoon where they
have a Boston whaler (?) Set
net off the reef runway - sell fish
at the auction. Caught a large sting ray.

BLUE/GREEN SWIM PANTS
& BIK F.N. - Black & Cream mesh.

96
5/5

Charlene & Mike Dyer - home - 826-6889

tel. 239-9807

5/5
TUES.

Met Jay Hebert - LUSTY
47-559, Nenehiwa Pl.
Kaneohe 96744

Concerning 1974? Princeville
staged turtle
lots of eggs inside - leathery
shell. Caught during off of
SEA LODGE.

A Mike Shanske of Princeville
has photos - Tel. 826-9246

tel.

5/5 DIANE Schweitzer 669-5724
Scott Shoemaker 6/13/82 Hookipa

AVERY &
NANI

Cooper's shell in house - large
size, as per recent home study by LRB

not covered
hold you

5/7/82
TUES.

Mr. FULTON

YOUNG
SAID:

Saw =

Marty FAST

922-2744

97

P.O. Box 89579

HONOLULU, HI 96830

To find out
how you are
more time

Ed MISAKI - Nat. Cons. Molokai 567-6680

Craig Harrison 547-5600

Joe Keola, KH6BFZ

45-529 NAKULUAI

KANEHE, HI 96744

5/7/87 call to

THURS. - MRS. FULTON -

BETWEEN 7-27 Sept 1983

Ms. FULTON on vacation here - out w/ friend. Swimming at
- KAHANA BAY BEACH PARK -

EARLY AFTERNOON 12-2pm
YOUNG BOY SAID: "you had better get out of the water,
there's been a shark attack"

SAW = Stretcher being loaded into helicopter.
LANDED ON THE BEACH, or over water: ON JETTY OR SEA
color of copper: BROWN wall, or at least a clear area.

~~Above
never confirmed~~

5/11/87

Requested photos

10 June D.C. Conference
Society of Plastics Industry
Biodegradability of Plastics

5/11
TUES

~~Sent~~

Dr. Tony Andrady
Research Triangle Institute
Research Triangle Park, NC 27709
(919) 541-6713

Rick Klemm "Risk Management"

~~STRAND~~

5/17/87
SUNDAY

~40lbs; 5 BARNACLES
10:45am

entangled in front
Ships by Fred Abb-Adams
Heeia Casting Pole
rums

235-2192

~~STRAND~~

end of pier - fisherman
hooked a turtle
Nepine DOCAPE secretary, office 213
Report No. OA-87-247

DOCKET DAVID SANTOS
46-247 PUNAWAI
KANEOTE, 96744

~~Sent~~

Rick (Eric) GUNTHER, 970 N. Kalahoe, Suite A300
KAILUA - 96734

TOM EXT. 27

Black "goo"
but not a lot
"Mustard" colored goo further down small intestine

STRAND5/12
TUESTom HouriganHIMB found a large dead turtle
w/ tumor in Kaneohe Bay.I picked it up - held
overnight in tray in truck

Fresh

S-S-74.7 X 57.9
(74.2-N)IN TRUCK
AUTOPSY 5/13
A-2
By me alone.

PHOTOS

#2-14

PL-60 cm

TAIL-11.5

Massive, extensive tumors all over
neck, eyes, shoulders!
Leech eggs and adult, liver leeches.One 3-4 cm ^{TMR} only, left groin. Nothing
else on hinds.TOO MANY TMRs in the way to measure
head width.White hard coating all over
carapace, but no large barnacles.No TMRs in throat. Muscle
had "watery" areas. Normal
looking fat layers present.Liver lobes look small.
Little in intestines. Vacant
appearance somewhat to body
cavity. Small stomach contents -Sample taken. Hard at pyloric sphincter."Black goo"
but not a lot.
"Mustard" colored goo further down small intestine.

Frank Mundus 328-8062
(516) 668-2779 NY

Steve Macres - 322-2107

Box 47

HOLUALOA, HI 96725

"Mona H" - 7 years in Hawaii

"Jeri" ♀

8901 TAG — 11-11-11
ON "PUPPETS ON THE PATH"
(MAMA HONU)

→ Teachers' Guide -
by Maura O'Connor, DLNR
Div. Wildlife

Sea Life Park Volunteer - ALLANA

12:30 - 3 PM

GEORGE CHUN - 239-9015

STRAND #54 8am

101

5/15/87 Call from Shippy HAU
FRIDAY Turtle # 8479, 80, 81 caught
in gill net, taken up to
car, but was caught by
DOGAKE or police. Part of jaw
broken - saw blood.
Earlier call to Robert -
Turtle strong, so they let it go.
Tumors present.

Curved Carapace length = $32'' = 81.3 \text{ cm}$
CC = 76.0 cm Kahului Bay June 1985
5.3 cm growth in 23 months
• 23 cm/month or 2.77 cm/year
or $\frac{1}{8}$ inches per year

photos & slides.

Allens Meader 1111-A Weiniha St. 96825 396-9681
SLP docent - came to
watch autopsies 5/15 Friday

STRAUD
#45ADULT MALE TAG NO. 4261
Dead at Bellows BeachWayne Jones
Allina (SLP)
R. Foran
Nina Morzavatter
Marty FAST
A-2 AUTOPSIES =

S-	length	width
	79.7	61.2
Notch - no notch	X	

Head - 12.0

TAL - 38.5

Plastron - 64.1

preserved the tag & tissue

emaciated - sunken plastron

sunken eyes

numerous skin barnacles

very skinny neck

(old injury to top of shell

→ 1) on the second central scute

- non injured indentation

small tumor at junction of jaw

massive tumor on tongue - not growing at entrance

small tumor of right shoulder to esophagus but growing around

shallow tumor on skin on right of head glottus

massive right lobe of liver

Sample heart - Marty

totally empty stomach

small testes small amount of fecal matter in
small intestine.

4

5/15/87 - A-2

STRAND #51

103

MAUNALUA Bay (Hawaii Kai)
5/2/87 SAT.

SLX SW - 72.6 x 53.1

Plastron - 57.8

head - 10.1

tail - 16.0

no notch measure - busted

Tumor - both eyes (left massive)

grain - both sides

3+ on neck (small)

1 massive dorsal right

several small on left should

none in mouth

carapace coated with algae

Internal

Plastron slightly soft on margins

"black" body fat

Lungs slightly inflated

Liver appears undersized

Stomach sample from 1st stomach

mate

5/15/87 A-2

STRAND #50
 KAILUA BEACH 4/28/87
 + Tiger (Barry Moore)
 notch - 43.8
 SL x SW - 43.7 x 36.0
 head - 7.3
 plastron - 35.4
 tail - 7.5

external

no apparent reason why dead
 found next to boat ramp
 white coralline algae on carapace
 no injuries except small clot of blood on right eye
~~no~~ blood flowing out of mouth

Internal

Full of food
 slightly decomposed
 intestines filled to capacity
 with algae & many black sponges
 sponges also present at rectum
 that appear undigested

Female

Pockets of Turbinaria found in small intestine
 Pockets of H₂S

Stomachs 1 + 2 - Turbinaria + emancia found

saving all bone elements for Marty

STRAND #49

4/27 Sunset Beach - (Mike Miller)
(Gill net)

SLx SW - 45.1 x 37.4
head - (scaleless) 6.9
tail -
plastron - 36.3

neck entanglement by gill neck severed spine
dark scutes

Internal

digested algae throughout intestine
can determine sex - rotator

A:2

AUTOPSIES

5/15/87

Kailua Beach - Tiger Shark

Total length - 141.6 cm

fork of tail - 112 cm

not much in stomach

5/19
TUES.

~~Victor & Marie, Pisciotta~~ → Call to Wong

STRAND

~~taholun - near Momi Loop -~~
Very rotten near road on intertidal mud flats. Barracks & heavy scum on carapace & plastron. Deep splits/cracks in carapace. Collision with something. Boat? Victor mentioned CL- 16" (cm) "ski boat" operators offshore this area. Incredible amounts of reptile, plastic debris washed in along here.

50-100
estim

5/17
SUN

Barry Choy picked up a small turtle with TMS caught in a ^{long} gill net in taholun. A-2
Philippino group of gill-net fishermen.

BACKNOTE:

MAY 4, 87
Monday

First South Surf
swell reported on the radio

ST
5/19
TUE

STRAND

Wong-home 623-3382

107

5/19/87

TUESDAY ~ 6:30pm² Call from Joe Wong at home from GAIL WAPP, who heard from DOCAPE, from Huiyane Society. Sea life park also has been called.

Wendell LIU found turtle floating near J Buoy, 7 miles out. Turtle didn't dive. I talked to brother, Curtis LIU.

50-100lbs estimate

262-9902

961 ALAHAKI

KAILUA

Turtle crawling around in boat making noise... Wants it picked up tonight. Picked up by WGG.

Held in A-2 office -

2-3 PHOTOS; short tail - ♀

Left front flipper tip - slightly bloody.

Some abrasions on soft skin.

No signs of injury anywhere.

Tagging data on following page →

RIDLEY

13 cm head

S 63.5 x 58.0

8899 RL laterals 6-68900 LF 6 centrals

Released 5/20 Wed. afternoon
 ~ 2 miles outside of Kaneohe Bay.
 Swam away and dove.

(714) 661-4888 - talked to "Vicki"

6/2 Waverly

5/20

WIND SURF

24581 DEL PRADO

DANA POINT, CA 92629

Editor - Drew Kampion

" " 261-6321

Guy assist. editor LEROUXRene Dagseth - State Department

(202) 457-7148

Sea turtles / TED use in the S. China Sea.

Barber's
Pt algae

~~JANA TO LINDA~~

ACCIDENTS - MARINE 109

"Shark bites 15yr old girl"

Advertis 6/5/84 A1

Adver. 10/22/84 A3

Rodney Fox

STRAND

#47

4/20/87

WEDS.

Lester Zukeran -

large turtle found in Kaveake Bay. Brought to Coconut IS. on ice. Picked up 5/21 Thurs. by R.F.

S - 93.3 x 66.4

PL - 73.5

HEAD - 12.9

TAIL → ~~16.3~~

RFF 16.3

just posterior
of cloaca.

~34cm amp. healed

healed tag slit
in FL

Right Hind

healed

L Flipper - amputated at the shoulder.
+ 5cm slash in shoulder.

1 large, 2 med barns on 1 lat. right

→ Several photos. Stomach & guts packed full of food - massive. Long large abscess in right lung. Heart all frozen - saved + Shell, head, PL. etc. for Marty.

Memorial Day

9:30am

Thurs - Paul

12 NOON

30 MINUTES

Monday

5/25/87

Call at home ~ 9:30 AM
 Jerry Coffee & Gene Lynn
 cut a turtle free from gill
 net - 60 lbs, exhausted but
 healthy - released - no tags.
 Net had been set, but
 not watched.

Paul

Tel. 668-2252

87-619 Farrington Hwy.

Waianae, HI 96797

5/25 Second fuel spill into
Kahului Harbor during
 recent weeks. This one
 diesel fuel, - previous was
 gasoline.

5/26 Kaiser called Seattle Aquarium
 "Bill Brewen Phd is their
 health coordinator"

5/26

TUES.

Captain Frank MUNDUS

(516) 668-2779

Box 667

MONTAUK, NY 11954

→ (68-729 Farrington
Wailua 96741

111

5/26
TUES.

Steven Wor 637-6231

(Kam Schools
Div.)

STRAND

Camp Mokuleia, just past
Wailua Highschool; 25lb fresh
dead turtle found floating.
Cause of death not apparent.

Picked up by LINDA Glennon
volunteer

5/26
TUES

DOUG GATES
or (MAT FINLEY)

NOSC-245-4421

12"-16" turtle

STRAND

found floating off
the runway in Kaneohe
bay. IN Freezer.

STRAND

VIA BONNIE:

STRAND #62

5/26
TUES.

Paul Schuft

(68-517 Crozier Drive
Wailua HI

tel. 637-5443

MAILING ADDRESS - BOX 1176

HALEIWA, HI 96712

25-5016 fresh found floating dead just
outside of the surf. net by Barry Clay for
pick-up at Matson Saddle

5/26 Tues. Talked to Ann
Don, MOSSES of
 Lady Ann (Napali) Cruise (LAC)
 tel. 245-8538
 Box 3422
 LIHUE, Kawai 96766

Now has a permit to land at
 Nuabokai & Muli. Only other one
 is Napali Zodiac. LAC is the
 first to land in the morning.
 Has seen turtles "basking" on
 the beach, and "caught" on the
 reef. Discussed "shouldn't rescue"
 and "shouldn't disturb".

6/8 call
 from Heacock
 Dike Board to
 rule on siting
 of 3 permits
 Steve Montgomery

→ Dan Taylor - 967-8133
 Resource Management
 VOLCANOES NATIONAL PARK

5/29 Jim Jempson FTS-844-6816
 Field Command DNA
 Attention: FCLE
 KIRKLAND AFB, NM 87115-5000
 Concomit -
 Sewage Treatment Plant - Sec. 7

HAWAIIAN AIR 537-5100

FL 700 JUNE 3 Wed. 6:55 → 7:20 AM

FL 759 JUNE 4 Thurs. 4:30 → 5 PM

\$39.90 EACH RT

AIR MOLOKAI 839-4040

3 JUNE 6:45 AM

4 JUNE 3:15 PM

6/1/87 Call to Puleloa from home -
MON. Tel. Form:

Forms
filed
6/2/87

3rd PARTY BILLING TO PETE HENDRICKS:

Medeiros 553-5702

Filed 6/5 Medeiros call

STRAND

JOAN Sather - (503) 585-0245 home
(503) 399-5608 work

6/5 Bonnie delivered bones (poached turtle)
from Reef Runway. Stand #63

6/5 JONATHAN ROSS -

FRIDAY LARGE TURTLE w/TUMORS BUMPING

into things. Extension
of PIER 1. NORM LANDRY

Reported
to Skipton
6/8

STRAND
#64

871-7192

JUNE 7, 87 9AM Visited Dean Hayward
 SUNDAY 444 LUNALILO HOME RD. #212
 to interview & inspect 19' kayak
 bitten by shark (never seen) on
 6/2/87 lost Tuesday 5:30pm off Allan
 Davis, Mo'orea, 100 yards from shore,
 >30' depth.

Slide
 Photos
 TAKEN

Hazel
 →

Yellow ice-chest strapped above deck
 right behind seat. "Seat" well
 where paddler sits.

(Book "SHARK - SHARK" mentions control
 programs in Hawaii turn of the
 century - shows lots of sharks
 lined up.

→ Starboard curvature of hull:
 9 punctures - spread of 5.5 x 6.5 cm
 (ONE CLUSTER) cluster

→ Port
 Two clusters - one of which
 (Distance between =) had piece of tooth
 plug out.

Rubbing made with paper & pencil.
 Plus several photos taken.

Distance between punctures =
 cm

NAUGHTON - IF - IF
 WASS - NOT Tiger

6/8 → KIM CROZIER
MONDAY

672-3115 MAKAKILO

6/9 Program Review
TUESDAY 4 UNITS -

- ① Fish. Management task
- ② Insular Resources
- ③ MMES
- ④ Pelagic

10K debris program - used to catalog netting
and destroy it on islands
(3 year period) - JRM report.

#324 K = MMES

6-9
TUES.

Terry Walker 293-5837
knows of someone who hit a turtle
with their car in Laie yesterday.

Dr. Thomas - June - Sept.
Woods Hole, Mass
Tel. = (617)-540-8826 MBL

BALLOON LIT.
SENT

Sue White - 1302 C Kawahale Street
Kailua, HI 96734
CONCERN ARTHRITIS FOUNDATION

6/11 Thursday Provide scientific and technical information for managing and conserving marine resources".
Does it have a Beginning & end.
International cooperations

IB needs -

1) 2-3 paragraphs - get money out of National Turtle Program - Approach Evans.

2) Historical Stuff - good ... Try for more travel money.

3) Bolbert - Turtle Habitats # restore

One meeting per year.

Visitations to other facilities
(Barbara Schwede)

STRAND

Shark-bitten turtle
mortality at FFC.

NECROPSY by M. MAJOR & R. VETTER AT TERN

6/11
FRID

STR

6/10

FRID

0

3 Pofc
with

4 AT W

6/11

THU

3 ACK
NOTE

6/11
SUNDA

6/12/87
 Friday Daryl 923-9741 Message via Ham
 Waikiki Aquarium Uthiki Yatch has
 small turtle given to them - want
 to know if the Waikiki Aquarium
 wants it

STRAND

6/12 Frank Parrish - TMC turtle
 Friday w/crack found in ^{5/11/87} marsh
 area 1/2 mile up Mokapu
 coral along bank. 4 bags --
 in A2 freezer. NECROPSY 6/12/87 in A-2

3 POACHERS -
 turtles

4 AT WEST END,

6/11 ^{2 central}

Thursday

WEST BEACH - Barbers Pt. MORISSETTE
 5 - 6:30 PM

MIKE CROZIER
 w/KIM CROZIER &
 MARTY FAST

NINA

MORISSETTE

9/5/86 OCEANIC INSTITUTE - Bob Young -
 Steve Havers boat - water samples
 at 4 stations off West Beach
 8 turtles seen - central section - water 15m deep

6/14 Visit to West Beach -
 SUNDAY 630 pm - 745 pm
 (sunset 7:15 pm)
 only 1 seen -- west end

MOKAPU CANAL CONTACTS

PARISH - 254-1687
 GABERT - 254-1680
 DALE ADAMS - 254-5055

PETE Hendricks - KOHALA DIVERS 882-7

MAILING ADDRESS =

ED MISAKI - 567-6680
 Box 40, KUALAPUN, MOLOKAI 96757

Carr

Route 2, Box 906
 Micahopy, FL 32667

NAV-8

PELTIER STREET
 CHIEF BREE VAUGHN { 471-0029
 [422-5566

MARTY (MARTHA) FAST
 P.O. Box 89579
 Honolulu, HI 96830
 TEL. 922-2744

METRIC SYSTEM WITH U.S. EQUIVALENTS

METRIC UNIT (1) U.S. EQUIVALENT

LENGTH

millimeter	(mm)	0.04 inches
centimeter	(cm)	0.39 inches
decimeter	(dm)	3.94 inches
meter	(m)	39.37 inches
decameter	(Dm)	32.81 feet
hectometer	(hm)	109.36 yards
kilometer	(km)	0.62 miles
myriameter		6.2 miles

AREA

square centimeter	(cm ²)	0.155 sq. inches
square meter	(m ²)	1.196 sq. yards
are	(a)	119.60 sq. yards
hectare	(ha)	2.47 acres
sq. kilometer	(km ²)	0.3861 sq. miles

WEIGHT

milligram	(mg)	0.015 grains
centigram	(cg)	0.154 grains
decigram	(dg)	1.543 grains
gram	(g)	0.035 ounces
decagram	(Dg)	0.353 ounces
hectogram	(hg)	3.527 ounces
kilogram	(kg)	2.2046 pounds
quintal		220.46 pounds
metric ton		1.1 tons

METRIC UNIT (1) U.S. EQUIVALENT

VOLUME

cubic centimeter	(cm ³)	0.061 cubic inches
cubic decimeter	(dm ³)	0.0353 cubic feet
cubic meter	(m ³)	1.31 cubic yards
cubic decameter	(Dm ³)	13.10 cubic yards

CAPACITY, CUBIC

milliliter	(ml)	0.06 cubic inches
centiliter	(cl)	0.6 cubic inches
deciliter	(dl)	6.1 cubic inches
liter	(l)	61.02 cubic inches
decaliter	(Dl)	0.35 cubic feet
hectoliter	(hl)	3.53 cubic feet
kiloliter		1.31 cubic yards

CAPACITY, DRY

deciliter	(dl)	0.18 pints
liter	(l)	0.908 quarts
decaliter	(Dl)	1.14 pecks
hectoliter	(h)	2.84 bushels

CAPACITY, LIQUID

milliliter		0.27 fluidrams
centiliter		0.338 fluidounces
deciliter		0.21 pints
liter		1.057 quarts
decaliter		2.64 gallons

LIBRARY OF
 GEORGE H. BALAZS

