

JUNE 87 - FEB 88

BALAZS

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

2 OF 2

NECROPSIES

P. 4-8

P. 18, 23

P. 38-39

P. 53-54

P. 58-59

P. 62-69

P. 84-88

P. 94-95

P. 99

P. 104

P. 110

G. BALAZS

9/25/87 A2 NECROPSIES

Steve Hollandsworth see PH1

9-25-87

Kauai Beach 8-17-87

KUALOA Beach PK

Carapace

Plastron 48.5

Head - 9.4

tail - 11

Burrowing barrachias on vent

TUMORS (L) fore flp, (R) eye, sm tumor (R) fore flp.

mouth normal

Small liver
obvious

no abnormalities of heart

stomach full

no palpable plastron in gut

maleSL 61.2 full, 61.1 to notch
width - 46.8

no tags

head saved

Tina's specimens

- 7) tumor base (L) flp
- 8) tumor on eye
- 9) (R) Plate Liver
- 10) (R) Plate Liver
different location
- 11) Spleen
- 12) Spleen
- 13) R lung
- 14) (L) lung

Specimens
on side
table

stomach contents

A2

9-25-87 FRIDAY NECROPSIES
M. MAJOR, Robert &
Barry Choy

9/25/87

Picked up by LINDA GLENNON See p. 55

Moku lew ia Army Beach found 9/6/87.
Ken Suisa (Suisa)

no tags, no tumors

Carapace 5L 37.6 full, 37.0 b notch
width 31.2

Head 5.6

Plastron 29.5

Tail 6

Head bones

mouth normal

heart OK

Intestine - no palpable plaques

Sex - male

Viscera specimens

15 (R) Lobe Liver

16 (L) Lobe Liver

17 Spleen

18 Spleen

19 (R) Lung

20 (L) Lung

9/25/87 A-2
Necropsy 183

Pupuked Beach (near Waimea) 9/11/87 no legs visible
 picked up by Brenda Becker 80.4 full length
 Head - 11.9 Carapace SL 80.2 to notch width 62.1
 Tail - 20.6 See p. 55
 Plastron 65.5 cm
 Sex - F
 Burrowing barnacles in inguinal area

9-25-1	-	Liver sample	Right lobe	} Specimens 1) stomach → for 4 lura
9-25-2	-	Liver sample	" "	
9-25-3		Spleen	" "	
9-25-4		" "	" "	
9-25-5		Lung	" "	
9-25-6		" "	" "	

No Tumors

Stomach sample taken
 Heart looked normal
 Intestines full
 Head saved
 holes drilled in Carapace

9/25/87

65

Necropsies A-2

9-25-87

Kaneohe

5-17-87

Carapace SL 51.4 full, 51.1 to notch
width 41.0

Head - 7.9

Plastron 40.2 tail 11.5

Measure
Jaws on neck, (L) eye, (R) forep., (R) hind flp

Barnacles on carapace, plastron

Smallest barnacle on ventral

(R) plastron (forward) soft & wrinkles

Stomach & Intestine - fairly empty

Sex - M

Intestine - no palpable plaques

Specimen -
stomach content

We weren't sure
about this ID
so J.

Left it here
m.

5-17-87

Kaneohe

Contact: Barry K. Choy

NAME-TAG
NEEDED

"BISHOP MUSEUM SUNDAY"
SUNDAY/OCT 87 Marilyn Major & CHARLES
-350 people

10/5 Mon. 4 Wershoven Florida Algae specimens
sent to Dennis Russell
#9, 10, 11 & 12.

10/5 Aloha - FL127 9:10 departure ^{Thursday 10/8}
Return 4:20 pm

10/5 Julia Flannigan
Office of Endangered Species FWS
1000 No Glebe Rd.
Suite 500

Arlington, VA 22201
Requested info on cultural/customary
use of sea turtles by Polynesian
Pacific peoples. "economics". Woody
referred her to me.

"FREQUENCY CONTROL"

- RON FUKUHARA → Telecorp?
- ERNIE SHIMA → Soft. RADIO Frequencies
548-2104
- ARNOLD FELDMAN - 948-7087

Tel. him
+ Naughton letter?
10/2 being prepared?

FRIDAY Meeting w/ Sherwood-MOP -

Threatened Species

TRAINING

EDUCATION

Research

\$3,600 (3 \$1,200 stipends)

\$800 NET FABRICATION

\$300 Vehicle OH rental <sup>Subsid-
ized</sup>

540 Food

400 Misc Supplies

\$5,640

TOTAL
+ OFF CAMPUS OVERHEAD
-28%

MATCHING - MOP

COMPUTER BANKS
SCUBA

STIPEND
SULLIVAN

NMFS

10/6
TUESDAY

~~KAWELA BAY~~

Pat Murphy, his assistant, Mike Lee Ace,
J. Naughton, G. Nitta, Harry Kon (sp?)

JN's comment - Used to shoot
turtles, but it wasn't very
success because too many got away.

Walked out on reef in front of where
Terry Walker's house was. Scaenophora
on the shallow bottom. 3 protruding
limestone rocks. Algae felt around base -
not abundant - Anarsia; Hypnea (sp?)
and retarded Pterocladia. Also possibly
a Gelidium. Walked out on
point where house is due to be
bulldozed soon. Could not see
where net could be set from
here - too shallow and rocky.

Three in Row 15-20 yards off
existing + 2-3 on West side.

WEIGHT, volume (size) attachment; drag from east shore;

Check
FOR
HIGH
TIDE

10/6 Kawela Bay (cont)
 TUESDAY I walked to Hau & ^{Beach} morning glory area by
 "river" mouth, reported to have nesting (Nov.
 Dec. at night (by Hikon); no signs of
 anything seen. Others went in Patt
 Murphy's Zodiac to steel pontoon -
 later samples, including Anarsia, later
 given to me from it. Very turbid
 brown area present in the middle to
 east portion of bay.

- Photos of Lagoons #1 & 2 AT West Beach -

8 OCTOBER 87 LITUE - LAWAIA KAI

THURSDAY AND ANATOLA AUTOPSY
 SST seen at Hemeles - Honolulu AND LAND FILL (See page 61)
 2:50 pm

Arrive 10 am
 depart 4:20 pm

CL - 81.0 cm (32 in)
 CW - 74.0 cm
 Adult Male

Fresh - in cooler all
 night since being found
 10/7/87 Wed morning.

- photos show green & some yellow, fat.
 - No parasites found in heart.
 - 2 Stomachs only moderately full.
- Appear most Anarsia, but also some
Pterocladia? Samples for ID. Fecal matter
 throughout intestines.

EXCAVATIONS

Stella +
Zale
Josh Hanaka
742-1935

Lawai Kai turtle nesting (1987)

- (1) ²⁵⁻²⁶ 25-26 June '87 $\xrightarrow[\text{date}]{\text{faint. hatch date}}$ 29 Aug
- (2) 11 July '87 (5 eggs uncovered by another turtle)
- (3) 25 July '87 (
- ~~Photo~~ (4) ²⁸ 28 July '87 (38" 05 long; 28" wide); nest 50 yds west of first nest
- (5) 10 August '87 (tracks 31" wide); nest near river
- (6) ²⁸ 28 Aug. '87
 saw eggs laid

Nest #1 99 eggs; all infertile or stopped in early phase; morning-glory roots permeating all egg shells, 1 egg hatched on top (or was broken)

Nest #2 - 73 eggs; all infertile

#3 - no egg found; ~ extensive roots

#4 - 96 eggs - all infertile

70

10/13/87 Julia Keialoha - brought hawkbill
head and bone to lab.
TUESDAY HEAD = 11.4 cm

10/9/87
FRIDAY
call to
WPPD
John Naughton =

Tents - past to beach
Hawaii Foundation, Big Hawaii on wide
(5' shore), (2 1/2 - 3'). Adlai 300 450
tent VEGAS
(623-3074)

#93

~~Aunt~~

95-069
WAITONS
WAIHAWA,
HI 96786
Haleiwa
Memorial
campus
baseball field
pan chupe
Sunday
arts

Mother reported campers saying its flipper
was entangled in rope. Later released.

10/14 Talk to Christina's class -
Wed Holy Nativity

10/15/87 Bob Snodgrass (619) 534-4099
Thursday Scripps - UCSD A-007 La Jolla - CA
92093
Recent visit from Julie Onie

Nat. Aquarium - (202) 377-2827
Has a 20-yr green turtle w/ peeling scutes,
Snodgrass has Galapagos post-hatch.
+ small from "bathub" - to Sea World
+ 100lb from salt water pond at Newport Beach.

10/16 Naughton reports 1 fant flycatcher turtle
still being sighted at Mjungu Lami.

10/15 Call from Reid with row
THURS. 3 dead SLP hatchlings
after he returned. Steve
gave them 4 more. 1 dead
3 alive. Seawater 24.5°C.
He slowed water flow and it
is now up to 26°C.
Reports from Sawa forthcoming.

10/16 Mr. ^{Lt. Jeff} Good USCG - OLE
Friday 541-2289 4-8 Feb⁸⁸ - Pogo Flight
Cmc Brandis - 541-2315

10/16 DAW TW Systems 847-1344
staple-pins for net bags.

10/18/87

Call at home from Bill

#94

DOCARE HOTLINE

Report of Boy Scouts at
Mahekaeha rowing out
28" turtle shell - discarded by
fishermen who found it dead
in their net. Plastic bags of
meat taken by 2 park caretakers.
Officers on the scene - Dillard Clinton -
Supervisor told him not to
cite anyone - but write a report.
Supervisor - Ronald Kama
Scout master was complimant(?)

info to
JOE WONG
Mon. Morning

AET CARRIZOSA

756132 Alii Drive
Kailua-kona, HI 96740

from Mainland requested shark info.
Study Attacks in CA.

SAT: OCTOBER 17 87 "GET THE DRIFT &
BAG IT" CLEAN UP.

Sent

Address =
RICK HUNZ - 948-1802

INTERESTED IN

large

Strand
#95

Hawaiian Bay turtle
Witch's Bew - in the water.

10/17/87 Brought by
Witham to AZ freezer.

Team #95
Capt. Wrong!
PRIB SITE!
10/17/87

~~ANN HANSON - 395-5184 73~~

~~SUSAN, fishline, 949 HONO KAHUA~~

~~Rotting TURTLE ON 96825~~

~~Sat seawall seen at Diamondhead near small~~

~~Park. 10/21 Ther & Michelle looked for it - NOT There~~

~~10/19 Jortune, Leralto 959-3531~~

~~11 Hilo - Intermediate School~~

~~Howard referred her to me~~

~~for speaking engagement. Referred~~

~~to Bob Nishimoto.~~

8701 - 8750 (50)

Back from LISIANSKI

8701 - used at K. Holo +
21-23 Oct 87

KIHOLO HPA #1

21-23 OCTOBER 1987

Wed. - Friday

BALAZS / FORSYTH

#96. Report in file c/o "GINGER"

10/22 43cm fresh green dead washed

Thursday up at Camp Mokuiaia

(Episcopale Church Camp)

Roy tel. 637-6241

68729 Farrington Hwy

Waialua, HI 96791

Refrigerated until 10/26 -

Post Mortem A-2 by me

following PAGE 75

885-4139 home

10/25, Gulko called Hilo DOCARE after Sunday hearing from Sophomores HPA camped this weekend at Kiholo that a dead turtle was seen wedged in rocks of island near where we were netting.
 NO Further info became available

sent DOCARE officer Patty Edwards

sent #97 → 3 WORCHESTER AVE.
 HONOLULU, HI 96818

MIKE FUJIMOTO
 845-9561

10/25

Tel. 422-0277

Sunday

Jan CORCORAN found at ENTRANCE TO PENNEL HARBOR - HICKAM SIDE
 None grass Exaggeration.

floating near Pier - jumped on and caught.

Fort Ram [300 lbs - 4 feet] live turtle with cysts
 Taken to Arnehue

Call to me at home from Bill - DOCARE
 + call from Sea Life Park to home.

10/26

Mon. Robert, Brenda & I pickelity up cat Sand Is. & transported to Kewalo. Numerous TMPS. None in mouth/throat. No leech eggs or leeches seen.

Fresh Refrigerated - see bottom p. 73

NECROPSY A-75

10/26

C-43 X 38

MOKULEIA

GHB

MON.

S-40.8 X 32.7

(N-40.5)

#96

9 Centrals (Abnormal)

4 lat. R
3 1/2 lat. left (")

Head - 6.9

Tail - 7.5

RFF - 7.4

PL - 33.4

- Red skin algae
- Skin barns

Sample

1- Entire crop

TO
Russell

1- Most of secretory stomach
1- liver preservative
1- lung
1- spleen

for NINA in here

Appears to be Amarsia & Pterocladia

but

Entire GI filled with similar
6-8" section H₂S + yellowish gel.
None present elsewhere.

Tested rectal swab.

Transferred heart to Marty.

* (

She found no parasites but
did find nodule in vessel with
black mush material. She has
seen some of these in other turtle
autopsies.

10/27

5 Stomach pump samples
from Kiholo 21-23 Oct 87 turtles
sent to Dennis Russell.

#99

Mauna Kea Kai

643-6433

EXT. 845

evening

10/26
Monday

Call at home from a Vivian -
Charter boat off Kawaihae 1 mile
found a floated turtle that
couldn't dive - regurg. sick
to them. shipped Pinerails
AIR \$21.00 by a Pablo
Picked up 8:30 am 10/27 by
Robert -

Olive ridley - lat. 6 left
7 right

S-57.9 x 55.7 -

Head - 10.9

new tags 9117 LFL; 9118 RFL

Male tail

Curved healed missing segment
out of left posterior carapage.
Curved Scar across LFF - possibly
entanglement scar, or shark
bite. TO Kiholo for
observations.

Taken on Cromwell 10/28 wed. - JRH.

Vivian De Aboitiz

77

~~Sent~~
x \$21.00

Captain Paul Fisches
Maunakea Kai
% The Westin Maunakea
Kauaihal, HI 96743

Visited office

Robin Eilerts - 941 5974
537 4508

10/28/87 AUDREY NEWMAN / ROBIN EILERTS

Wed

- ED specifications:

Stilt = - Reg. used
- Seen once w/ "large" numbers.

#100

in file

10/28

Call from Bob Nishimura -
dead rotting turtle in Hilo Bay.

10/28

Denise - 948-8191 Sea Grant called concerning
photo request.
Duncan G. Rollo
Chief - Intre & Visti ser.

call

DOI - NPS
Florissant Fossil Beds
Nat. Mon.
Colorado - 80816

78

A-2

NECROPSY

Brenda 55 + 530-61-1904

HANAUMA Bay

Picked up by
WILLIAM-

10/17/87

ADVANCED decomp, but

10/29/87

C 79.5 x 75 not bloated.

S- 74.3 x 59.0

1MM ♀

(N-73.7)

Stomach
0.95"

Head - 9.9

TAIL - 16.1

RFF - 11.8

PL - 57.4

Leech eggs - PL

TMRs - Axial, inguinal, neck
(None very large)

Small dia. fish line RF

Some
Blk after pyloric spinner

Stomach Sample for Russell -

Reds - Amersia + Hypnea? Ptero?

TAG

6817-6825

6826-6850

all of these tags returned early DEC 87 79

NO.

6918-6925; 6935-6950

+ 1 PLEP

10/30/87 Above to Stewart Fees for Robe Trip + INSTRUCTION letter, also copied to WASS

11/3 TUES.

Jeff Sanders - 487-5320
"I" called WPPD about "Hosaka" Shore Fishing in Hawaii book.

11/3

Robin Eilerts to office. -
Hawaii Heritage Program

sent for 10/17 Hanauma Strandling

RICK HUNZ
BOX 15122
- 96830

11/3/87 TUESDAY

~~SLP~~ 30

posthatchlings released by Steve Kaiser 3 miles

② left

Jeff Mokuapu. Data to be sent. tag no. & measure.

→ Jerry Crow

80 BARRY CHOIY LEECH STUDY / SPECIMEN

10/29/87

THURSDAY

A-2 Necropsy
EU - frez. & dec.
MF Project

8/9/87 STRAND Kailua Beach

picked up by WGG - MAINTAINED
AT KEWALO BASIN.

S- 52.5 x 42.7

(N- 52.5)

C- 56 x 50

PL- 40.5

HEAD - 7.9

TAIL -

RFF - 8.7

7 VIALS TO SAWA
11/17/87
Skin barocles present
EMACIATED - sunken PL w/ much
REDUCED RIGIDITY in pectoral
on PL and ventral ^{front} hind flippers.
Small TMRS both eyes.

Watery white muscle.
Moderate food fill to GI tract --

Squid + from Kewalo feedings.
Blood - previously taken

TISSUE - NINA - Lung, Liver, spleen, TMRS.

Gen. Pathology -

NMFS LUNG, LIVER, SPLEEN, KIDNEY, INTEST., HEART

TUMOR IN PERICARDIUM - SAVED

SMALL SCAR-TYPE TISSUE ON HEART SURFACE - SAVED

3 WORMS FOUND IN HEART.

Buy Gray book for Hawaii
+ JA

2777 Kalaheoua 81
96815

Col. BRUCE HUNEKE

RICK VETTER (206) 795-3915 work
(208) 384-1369 home

IRA LEVINE - UH Biochem.
Recently at Johnston IS.

GSA
Laundry PINS - 45¢ 351000-221457
(BIN LOC. L1-C2)
Loc WHE41A

CODE MJD
ACT. CODE - 139239
GSA = 423-9016

9-3pm

1107 Liliha #212
Honolulu 96814

→ N. CAROLINA

Feb. 24-26, 1987 Tel.

11/5 Saw
Thurs Reef Runway

(fresh small turtle) 526-9940
Jim MATSUMOTO
"Wasp-like things
Both flippers - both
sides of nest."

JRH went - NOTHING FOUND

8212 MISCELLANEOUS SAMPLES SENT
TO DENNIS RUSSELL 11-6-87

<u>DATE</u>	<u>DESCRIPTION</u>	<u>LOCATION</u> <u>ETC.</u>
10/22/87	#1 ENTIRE FORESTOMACH	MOKULEIA
10/22/87	#2 ENTIRE STOMACH	MOKULEIA
6/11/87	STOMACH (SMALL VIAL)	KAILUA - FRANK PARRISH
5/26/87	#1 FORESTOMACH	—
5/26/87	#2 STOMACH	—
9/11/87	P STOMACH	POPUKEA
5/17/87	STOMACH	KAREOHE
9/5/87	STOMACH	MOKULEIA
8/17/87	STOMACH	KUALOA
10/17/87	STOMACH	HANAUMA BAY S-743
10/7/87 #1	STOMACH	ANAHOLA
10/7/87 #2	STOMACH	ANAHOLA

11/9/87 10:30 AM Drive to end of lagoon Drive. walked to seaward end of Reef Runway looking for James Matsumoto turtle.

#101

11/9

NOTES BY JRH of telecon with J. MATSUMOTO 2 PHOTOS

DEFINITELY NOT OFF

SAW SHELL WAS THERE W 10:30 A.M.

2:30

JIM MATSUMOTO WENT OUT AGAIN ON SUNDAY 11/9 SOMEONE TOOK OFF SHELL SHELL WAS MISSING; SHIRT LOG OVER DEAD ANIMAL; FLIPPERS FOLDED UNDER, HEAD OFF SIDE

JUST PRIOR TO NEAR OLIVE GREEN CUSHION; BOTTOM EXPOSED; 6-5'15'

CHECKED FOR TAGS; SAW NONE

THE TUMORS NEAR HEAD & SHOULDERS

ESTIMATED 15" SHELL LENGTH; HA 2 HAND SPANS x 8"

→ NORMALLY SEES 4-5 TURTLES OUT BY LAGOON & OUTSIDE REEF RUNWAY.

84

TAG ID

NOSC

11-10
TUESA&Z Necropsies
By GHB ALONE9/9/87 5470 x —
(N - 46.5)Left anterior carapace
split open - not on sutures -
Boat strike? - or propeller?Head 7.5
RFF - 7.06 barn carapace
~45 " plastronSample
for
Dennis1/4 fill stomach - looks
like all Halophila
rest of GI coll. & Hal. ~ 3/4 full

9/17/87 Tennis Court - Jap. College
Dr. DYKSTRA Anna HAINA

⊙ → TMRS Base 4 flippers + NEOT

#91 (N 58.4) S-59.2 X
PL - 47.8

leech eggs
PLASTON

Head - 8.8

TAIL - 11.0

EMACIATED - cartilage all

Head for Marty

GT = 1/2 - 3/4 full

sample
for
Dennis

Stomach - guess = Hal./Cod./Amansin

10-10-87 in A-2 GHB

No frozen tag
beach sand on body - Fresh

Small ^{size} (#) pink TMR - L. AXIAL

S - 50.81 X 40.2

N - 50.5

TAIL - 9.5

PL - 41.2

Head - 8.2

Clean carapace
~ 8 small spots white cobble

MASSIVE Fill to ^{crop} stomach -
Most I've ever seen for
a turtle this size.

Sample
for
Dennis

Acanth (Am. Sarg?)
Head Saved

INSPECTED FROZEN PACKAGE 11-10 A2

158/b. 4/27/87 TIGER

SHARK
Rona

Via JOHN Naughton
3 puffer (overpuffer JAWS TO MARTY)

Spiny urethin
A FEW BIRD FEATHERS - Small

EU - Necropsy A:3

TRAVEL 87
ORDERS

Hickam - Pearl Harbor
Entrance (Jan Cochran)

11-10-87
Marty & I

- 7-8 worms found in the heart
 - Black nodules in heart vessels.
- (xerox tape-in of data on following page)

11/11/87
"Wed.
"Vet. Day"

Hugh Guerbro 734-8352
22"
4034 PAPA CIRCLE
Diamondhead

Send

Kahiki Home - 2340 Rose Street Honolulu 96819
Dropped off at Waikiki Aquarium
Picked up by me 11/12 Thursday morning.

SC-50.5 x 41.4

H- 7.8

9119- RFF

9120- LFF

Release by GHB & RF Jariakai 11/12 Thurs.
Vigorous completely normal behavior!

11/12/87 "Boy" 237-8271 Kahana Bay
Thursday Hawaiian living in the State Park. Turtle washed up yesterday. Michelle picked it up. Into A-2 freezer.
S- 78.8 notch- 78.4

Photos divided and given to Murray, Bouley and Marty East + retained in file.

CAPTURE DATE: 10-25-87 TIME: SITE: Pearl Harbor Annex
 TAGS- (MALE) RFL; LFL; (Jan Cochran)

S- Length 83.2 X width 58.8

BARNACLE OVERGROWTH

S (Notch) - 82.5

C - X

HEAD - 11.5

TAIL - 25.2

RFF - 128

PLastron 63.8 INJURY L. POSTERIOR PLASTRON
 SUNKEN EMACIATED
 FLASID - RUBBY

DESCRIPTIVE REMARKS - LER+ EGGS - VENTRAL PHOTOS TAKEN

NECK L+R LARGE TUMORS

FLIPPERS L+R R. AXIAL LG TUMOR

L. 1/4 WAY DISTAL LG. TUMOR.

ORALBARNS BARNACLES 3, R. VENTRAL FRONT.

TUMORS ON VENTRAL TAIL, INGUINAL (L)+(R)
 SMALL TUMOR - ANAL OPENING

Samples Taken -

Blood - YES - WATERY

STOMACH -

FECAL -

EPIZOITES -

TISSUE -

~~EDEMA~~

NO MUSCLE MOVEMENT. - MUSCLE TISSUE PALE, WHITE, WATERY JELLY-LIKE

Stomach - small intestines have digested squid. BAD Smell!
 Large intestine has fecal matter.

see letter
 6 vials to Sawa
 11/17/87
 (just prior to JATAII trip)

QSC for Shack

Airport pipe
ham brochures
dry pouches
(206)

(11/13 Friday) Pick Vetter - 795-3915

11/14 Saturday call from DOCARE concerning
about "remains of 2 turtles
near Heeia Pier. One a "3 shell"
in the water". 11/16 = DOCARE AGENT
ADRIAN called - only 1 turtle. "Hole in shell"
Boat on BANGSTICK, HIS GUESS. GAPPING FIRST
GONE WITH HIGH TIDE When he arrived.
SEEN FRIDAY AFTERNOON

.2 mile
KAHUKO IN
FRONT OF
HERBERT SANDS
HOUSE

11/14 Sat. #105
Call from Leslie Nunes
William - fisherman
caught tumor-afflicted turtle -
wanted to take it to SLP.
Box 931
KAILUA, HI. 96734 (UNlisted tel.)

11/16/87 Monday sent
Claude Thompson
Commission painting
of a sea turtle
POB 29962
Hono. 96820
OWNER -
AKAMAII
- PAINTING

11/16 Tog
8664 on Marilyn's puppet
turtle

11/18/87 Flinn Curren visited
 wed. the office.

11/18 [Ed Rich photos for
 4 dupes Smithsonian Magazine article
 sent 900 Jefferson Drive, SW
 Wash., D.C. 20560]

11/19 Called Julie Onie, National
 Thurs. Aquarium, concerning scutes
 sent peeling on-green turtle
 (202) 377-2826

11/19 Pat Matsueda 548-6915
 office of E.G.C.
 465 S. King St.
 R. 104
 Home 96813
 2 BW
 photos
 sent

19 NOV 87

THUR.

S. Han reported
 88.7 cm turtle found
 ~ 2 miles off Lanipoko by
 Kahuna Red charter boat -
 Nothing - scutes peeling. Undetermined
 What caused death. Taken to dump.

23 NOV - 7 DEC 87

JOHNSTON ISLAND JATA III

12/9/87 Michael Ruggi - Sea Turtle Center
 Wednesday of N. Calif.
 called (916) 265-2125
 we Tagging leatherbacks.

12/9 Mary Roney - "Marine Debris"
 UH Student - ED LAW CLASS

12/9 Claude Thompson - 836-1050
 Monday 10 AM didn't make it.

Hand-carried UW video
 from Robert Bloom "Hawaii's Underwater
 Paradise"

12/10/87 Phil Estermann 395-5909
 Thurs. 1130-C WAINIHA ST.
 Aunt HONOLULU, HI 96825
 Wife Jynnie

Fishing from breakwater in
 Hilo, trail adjacent
 to sewage treatment pond
 Hawaiian Hames park.
 Says many turtles close to
 shore was visiting
 Norris Henshaw

Tel. 245-7446
245-2211

12/10/87 sent
Thurs.

Suzanne (Ardel) Deppe
ALANA LYNN TOO
P.O. Box 137
ANA HOLA, KAWAI, HI 96703

Referred
by Don Hancock

12/11/87
Friday

Called Robert Burbano (Snodgrass
assistant) at Scripps
concerning turtle at SeaWorld.
To FWS Hon. by Morie Taylor - Sacramento.
MAURIE TAYLOR - JOHN ENGBRING

12/11/87
FRIDAY

"SCORN" meeting 10 AM

Main Island Study - 5 years

1 hour

"PSS Seminar" presentation.

Lab have some role in designing projects
State - additional money

Sea Grant - redirect

"Think about it more". "See some sort of
role lab people can play"

Meet again in a month -
1) Deep Sea camera system - what features
more wanted.
2) advice on data reporting for State

11 DEC. 87 FRIDAY

EV. by freezer - 3pm 12/10/87

KANEOTE BAY HIMB - 11/23/87

Alive to Kewalo Basin Tank.

Reported by Michael to have eaten some,
then stop and become weaker.(See taped results on
following page)12/14
MONDAY

Mop student Duffy

Briort's

INHILO

Home - 961-9224

637-6090

11/27/87

FRIDAY

Call from Susan K., Haleiwa
Boat Harbor (to John
Henderson) concerning sighting
of ~ 5016 lethargic afflicted turtle in harbor
alive. Not subsequently
seen when talked to
her on 12/14/87.

M.F. & GHB Necropsy

Found 11/22/87 Kaneohe Bay 39

CAPTURE DATE:

TIME:

SITE:

TO Kewalo -

NONE TAGS -

12/11/87 ED. & Necropsy in A-2

TOO LONG IN FREEZER - R.F.L.

NO MOVEMENT OF MUSCLE SEEN.

L.F.L.;

by Barry CHOI

S- Length 62.2 x width 50.0

S (Notch) - 62.1

C - 65 x 59

HEAD - 8.5

TAIL - 11.5

RFF - 9.6

PLastron - 48.4

FEMALE

Preliminary Parasite analysis

EGG-MASSSES IN LUNGS?

LIVER SCREENED

NO ADULTS FOUND -

NONE IN HEART

OR IN BLADDER.

DESCRIPTIVE REMARKS - LEECH EGGS ON BEAK

87 BARNACLES ON CARAPACE

EXTENSIVE LEECH EGGS - ADULT LEECHES ON TUMORS

60 BARNACLES ON VENTRAL

MODERATELY EMACIATED

MASSIVE TUMOR ON R.F. FLIPPER

TUMORS IN LUNGS - WHITE NODULES 1CM (3+ L.; 1 R.)

TUMORS ON EYES

Samples Taken

Blood NONE

STOMACH - NO TAKEN -

FECAL - " "

EPIZOITES / ZAPNS ABOVE

TISSUE

S. INTESTINE W/ SMALL WHITE NODULES

LIVER, LUNG W/ TUMORS, SPLEEN,

KIDNEY, TUMOR ON RFF

FOR SANA ANALYSIS

Sue (Sharon) White
State Litter Control

548-3402

1118 Maunawili Rd.
Kailua, HI 96734

SANA Report in file

KAWAHOE BAY FISHING CO. ACCOUNT IS THROWN THIS TURTLE INTO THE

* ^{"KUDOS"} Thank you letter to JFC col. Humeke

12/17 call from Don concerning 29" dead turtle "propeller" slashed plastron found at Kalapaki Beach (near Hawaii Surf). white discharge from nearby stream.

9/17 ~~sent~~ → Al Perez
DPED - CZM
Box 2359
Hono 96813

tel. 248-7756
Paul Foggin
Waihopu
Post Hava
sees turtles
aggregate
BOX 134
HANA, MAUI 96713

↑
Recently camped at Fuaalua -
Locals from Lahala vicinity told
him they catch turtles -
If give garden cones, just give
meat to them and they will
say - "Native Hawaiian rights".

12/17 ^{request} Barry McPhee
Thursday ^{VIA Gene Witham}
Ocean Riders, Inc.
Box 12523
~~sent~~ 808 661-3586 Lahaina 96761

sent
Balloons

Steve Montgomery tel. 941-4974
Conservation Council of Hawaii
P.O. Box 2923
Honolulu 96802

12/18 Message to send "Turtle Package" to

sent

Ted Mickowski
237-A MANINI St.
KIHEI, MAUI, HI 96753

#109

Autopsy results on page 99

12/20

TMR Afflicted weak turtle
matured eyes, live leeches picked
up at: (Chun's Reef)

sent

Robert Eheler P.O. Box 1243
61-475 Kam Hwy Halemaia
tel. 637-7766 CHUNS Reef 96712

80%
found buried
in sand 30' up from
waves. seen at 9 AM

by DOCAPE officers Kevin Kong sent
(548-5918)

12/21 MON. BAU25/choy transferred it
to Kewalo Basin.

[Small front-flipperless turtle reported diving
to bottom now - can adjust
buoyancy]

12/22 ~~Ben Swafford~~ 395-1046
 TUES First seen 211 Kawiliwai St.
 11 AM Canal May Street
 6-7 PM Honolulu 96825

12/23 - Visited his town house site and
 wed searched for turtle. Not found.
 Tib going out under bridge. Neighbor
 also saw turtle the previous day.

NEED: PHOTOS (oral/ventral). AS MANY BONES AS POSSIBLE; HYOID;
 REPRODUCTIVE STATE

12/30
 Wed.

Call at home from Ingrid SLP
 saying that turtle had been
 found dead today at the Kahala
 Hilton. Will be taken and
 held at SLP - Ice cubes.
 Acute or Chronic?
 Signs of abnormality noted in past
 days or weeks?
 Stephanie - caretaker, still
 No response ever received about signs
 at Kahala or other educational opportunit
 How do the other Kahala turtles look?
 picked by Heather 12/31 Thurs. - TO
 A-Z freezer TAG 2052 +
 249 ♀.

1/14 weight frozen = 162 lbs

China's Reef to Kenalo Basin to EU

12-29-87 - MARTY EAST
A-2 NECROPSY Dr. Foppoli

Head-Neck photos taken DR. SAWA 39

CAPTURE DATE: 12-20-87 TIME: SITE: CITUN'S Reef, Oahu

TAGS - NONE RFL; LFL;
FEMALE

Pron gonad inspection S- 66.2 Length x width 64.1

S (Notch) - 66.1

C - 70.5 x 64.5

HEAD - 9.7

TAIL - 11.5

RFF - 11.9

PLastron 52.9

Several whitish spots - nodules seen on small intestine but not believed to be from tape worms according to Dr. Harkin. Sample taken.

FAT under capspace jelly-like from

Edema. Muscle has normal appearance. Digested Squid in stomach upper intestine. Algae in lower tract. Parasites: Adults from heart and liver. Tape worm segments from wall of intestine. Nothing from bladder or lungs

DESCRIPTIVE REMARKS - DR. FOPPOLI 12-29-87

TUMORS - N L INGUIAL 7x6, R INGUIAL 6x4

L AXIAL (TAG SITE) 5x4.5, 4x3

R AXIAL 3x2

VENTRAL THROAT 2.5x3 DORSAL NECK MANY MASSES, L

RIDGE 7.0, LARGEST 5x5

Left eye Rupture

Small TMR R eye

Both corners of mouth - TMRs + Glottis TMR
Samples Taken by DR. SAWA (many photos)

Blood - ✓ for hematocrit + WBCs for parasite eggs.

STOMACH - ✓ fecal for Dr. Russell ID.

FECAL - ✓ SAWA

EPIZOITES - Present, but not sampled - skin BREWS

TISSUE - MANY Leech eggs (Barry Choy); MARTY - T. Adult Leech

By Dr. SAWA et al.

Two small pieces of synthetic "fabric" - "plastic" found in fecal matter of lower gut where all feces was algal in nature.

Sawa report in file

HEAD SAVED BY MARTY.

Hyoid APPARATUS EXAMINED
TWO LONG BONES OSSFIFIED
ALL OTHER BONES ARE CARTILAG.

JAN. 1988

1/8/88 call from Bob Wershoven
 Friday (305) 427-4079

Steve Blair - their consultant
 algae identifiers.

1/8/87 Pele Haroa - 929-9047
 Pele Haroa

MATSUOKA - Health Department, County
 "Horseshoe" water samples taken?
 = LAU PAPA OHUA

→ A Platerea

↑ small bitty fishes
 transparent -
 turns to strips
 like Manini

Another further toward Nihoa -
 KOLOA Bay

["Limo declining at Lualaba -
 pollution from golf course sewage
 treatment water" - I should visit
 plant by Institute]

#1

1/5 call from Steve Kaiser saying he had
 received anonymous call that visitor
 at Maunakea Beach Hotel had speared a turtle
 and thrown it back.

~~Handwritten scribble~~

Feb 17th

Jan 26

March 23

800 lbs

101

Barbara Segal - 948-8894
ENVIRONMENTAL
HEALTH PROGRAM

1/12
Tel.
Disc.

- Vanessa Gages
Paul Atkins
Moana Productions
311 Portlock Rd.
Honolulu 96825

Grace

1/11
Monday

~ 10/10 AM Gomez Bus BGA 278
offices W. SALVADOR
"Traffic incident"

1/12 call from-

ANN WINDSOR - KANAKA
ANIMAL CARETAKER

Visited Kahala - 3 ♂ 2 ♀ - 1 FAT above hinds.
attempted copulation; scabs; resting on submerged rock
Stephanie concerned about hard protrusion under tail seen while
basking on sand bar. Cloaca - probably from copulation.

4/29/87 Call from Stephany - Kahala Hilton
Wed 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 flipper.

1/12/87 Call from Diane Boltz
 Smithsonian Magazine
 concerning Mr. Swerholt article
 (202) 786-2063
 2058

Items & answers sent Feb EXP collect 1/13

1/14 Request Mr. Earl Hinz
 1750 Kalakaua Ave.
 #3-762
 Honolulu, HI 96826

sent turtle seal dup 1/19/88

Dodd tortoise paper = "Major consideration is that biological constraints limit the options for conservation to a conservative approach"

1/14 Telecon w/ Harry

"Develop a plan that best for sea turtles
 'weakening' will occur later, but that's not our job."

What happens in Hawaii can follow suit elsewhere

Start exploiting too soon, likely end up right where starts.

"Prudent course" "Develop a plan for the recovery of turtles. Not develop a plan for recovery designed to exploit turtles."

"Rick Tolerance"

Social, political and economic issues are our choice.

17 reviews - 7 endorsed 16 no comment 1: no objection

1/15

Sent

Data for NINA MORISSETTE

1215 ALEXANDER ST. #1402
HONOLULU, HI 96826

Photo for Lei Lani

1/19
TUES.

"NO. 20" Shark-bitten turtle
shell to Steve Kaises for
SLP display.

1/18

Mon (Holiday)

Tim Cullen, Customs, all meat home
to say turtle eggs had been confiscated.

1/19
TUES.

Maui - Spicy Hau
"Vai-his DAR Assistant?"

Sent

Caught on star-hook from shore
near Baldwin Park - PAEA.

MR. HAWK
ROBERTS
Box 793
PAIA, HI
96779

Fisherman departed when nearby
people went in to rescue turtle
"following its release and erratic
swimming in circles"

Air Shipped to Honolulu \$12.60

Put in fewalo tank - 2 punctures

back of head + above left eye.
left eye bulged pupil aiming downward.

memo
in file

70 A-2
freezer

948-6670

2/9 visit to Oceanography
Ken CONSTANTINE

32' antenna

Fed Murphy

ed Holton

ERIC FIRING - Assoc. Prof.
"GYMAR"

948-7894

Bill Adams - VH-H16 948-7797

LORENZ MAGAARD - MARINE SCIENCE Bldg.

DOUG TOMPE - ^{ELS} calling about building a coal-burning plant at Barber's Pt, Wednesday SW Oahu. Referred to WPPO.

KAHALA HILTON MORTALITY

NECROPSY A-2 GHB, RF, MM, and NINA M.

Photos

CAPTURE DATE: _____ TIME: _____ SITE: _____ 39

TAGS - 2052 RFL; LFL;

	Length		width
S-	78.4	X	60.1
S (notch)	Same		
C -		X	
HEAD -	11		
TAIL -	22.4		
RFF -	12.2		
PLastron	64.5		
Weight	162 lbs		
DESCRIPTIVE REMARKS	Massive internal fat, unskelated		
No abnormal external feature. Excessive fat tissue. Eggs			
Refroze head in a frozen state.			
Fat & Liver ^{liver} for ^{spec} ring egg			
Neckle: from ovaries	} prostate	Eggs	} 817 eggs
liver		Kidney	
eggs		spleen	
Kidney		intestine	
Samples Taken	Leaves & twig in stomach		
Blood -	Black fluid in upper intestine		
STOMACH -	condom in low intestine		
FECAL -			
EPIZOITES -			
FAT 2.5 - 3.0 cm thick under microscope	TISSUE	Numerous of major organs for saws.	

Pritchard
955-6363
PM 914

GHB & CTory

call from Susan 105
KELI'IKULI

1/21/88

Thursday

~~HALEIWA BOAT HARBOR~~
LARGE TMR out of both sides of mouth + NECK + FLIPPER,
C = 78.5 short tail -

"Melting" rotten. Floating next to
"ripple" area - just in front
harbor entrance of the same area
where same size (?) turtle was
seen alive - resting on rocks -
Sometime during 1987. Dumped into
Haleiwa landfill "transfer" facility.

Mrs. Juanita Watkins 637-3086

68-063D

Alake St.

Waialae 96791

P.M.

Called 1/19/88 on Code-a-Phone after calling FWS & NMFS exp.
Found a smelly, dead turtle on the beach between "L" and Alake Sts.
in front a blue bag. Carapace was bleached white & carcass
was very "smelly." She found the skull about 50 feet away.

I called her about 0815 on 1/20/88 and asked her to confirm
location & condition of size. She couldn't find it again & surmised
that the tide may have washed it out or someone had taken it
as by-standers were expressing interest in the shell the previous night.

Gene Nitta

sent

1/25
Monday

8:30am

Carl Keller

(new tel.)

257-5427

CCL- 88 cm ^{HIS MEASUREMENT} _{~160lbs} on the beach ^{SAG} _{HARBOR}
at NO5C - tumors eye,
jaw - photos taken. It
crawled back into the water.

~1:30pm - Call from him again -
same turtle back ashore. I requested
it be carried to high ground. I went
with pickup truck at 2pm - By the
time I arrived a second much smaller
turtle also with tumors was found.
Both taken to tank at Kewalo
Basin.

5th grade - AIKAHI PK School

1/28

sent

Scott Leberwood
317 Ilimaria Loop
Kailua 9674

no → ~~Journal of Epidemiology and
Community Health~~ RA 393 A1B777
AM. Journal weed
Epi.

107
1988
or July
87?

~~Sent~~

254-4670

Jennifer Tillie

5th grade - Aikahi Pk school
- doing a report on
green sea turtles

1895 B MAHANNAH Circle
KAILUA, HI 96734

1/27
wed

Call from Stephanie - Kahala

~~Sent~~

Greg Forbes
9157 Fortson Dr
Temple City CA
91780
(818) 285-0044

Glendale College
Helene Marsh Game Club
→ Zoology

[SEA 222 Stevens Radio 5SB
Mount Lake Terrace, WA
(206) 771-2182
see p. 113

1/29

26 bags returned
by Janyogen

7058

7148

7420

7379

7112

7078

7413

7144

7401

7142

7133 - locker

7147

7079

7412

7386

7046

7382

7060

7074

7098

7099

7075

7068

7096

7039

7411

Bryopsis = ~ 9% DM
Caulerpa = ~ 4% DM

1/29 forage analysis
2 bags #
6 Bags Bryopsis = 2 kg
= ~ 140g dry
23g per bag

Dive 5
12/5 8 Bags Caulerpa = 2 kg
= 80 grams dry

1/29
6 BAGS
ANALYSIS
Dive #3
2/2 8 Bags Caulerpa =
= 1.8 kg,
~ 72g dry

Telecom
2/1/88 Skippy Han 244-4352

Mon. regards inquiry from Jean Lesko
sent on CITES and Cayman Farms

Ki Holo RESERVATION
ALOHA - FEB. 10 wed FL. 94 TO KONA
" TO HONOLULU FEB. 12 FRIDAY 12:15pm → 12:48pm
836-1111 Me; CLOY; AND CHEE 6788
FL. 97 4:45pm → 5:10pm

2/1 Robbie Roberts - SLP docent
Telecom about taking "shine" off shells

2/2 TUESDAY
Telecom

sent Mike Konking - KTUH
shark articles 2565 Akepa St.
Pearl City, HI 96782

Cooney -
30843/ 47th AVE. S.
Auburn, WA 98001

sent Balloons Bill Malony (212) 393-2757
referred by Bob Schoelkopf
(Tel. Pioneers of America)
22 COURTLANDT St.
New York, NY 10007

NOSC VIA KENALA BASIN NECROPSY (EU) A-2

DATE PICKED UP 1/25/88 SEA TURTLE
 FROM KARL KELLER NECROPSY REPORT SHEET

MARK Gray, MASS. DIV. MARINE GENETICAL SUBMITTING ID NO.
 MARTY GHB

Submitting Prosector		Address		HONOLULU LABORATORY		Phone	
				Southwest Fisheries Center 2570 Dole Street Honolulu, HI 96822-2396			
Genus	Species	Carapace LXW	Plastron LXW	Head W	Weight	Sex	
<u>Cm</u>		L Str 57.2 W Str 44.5 L Curv 62.0 W Curv 55.5	Str 44.5 Str TAIL 9.7	9.0 RFF 10.4		F	

HISTORY & CLINICAL SUMMARY: (Water quality; environmental contaminants, stranding location, date and time of autopsy, etc.)

EMACIATED - SUNKEN CARAPACE
 LOW BLOOD VOLUME, WATERY BLOOD; PALE MUSCLE - EDEMA - JELLY-LIKE WATERY MUSCLE AND FAT.

DR. HAHN TOOK PRESERVED TISSUE FROM ALL MAJOR ORGANS.
 (INCLUDING CYSTS ON EXTERNAL SURFACES OF SMALL INTESTINE)

MODERATE FILL TO G.I. TRACT - "CROP" = PACKED, DARK NAUOPHILIC SEC. STOMACH - COCCIDIUM

CONCLUSION: RETARDED DIGESTION - STAGNANT FOOD - BLACK HOMOGENOUS FECAL MATTER THROUGHOUT INTESTINES.

Specimen submitted	Preservation	Condition of Specimen at Necropsy
Moribund <input type="checkbox"/> Dead <input type="checkbox"/> Tissues <input type="checkbox"/>	Fresh <input type="checkbox"/> Fixed <input type="checkbox"/>	FRESHLY SACRIFICED FOLLOWING COLD STUNNING.

Tissues submitted:

Histopathological DR. HAHN

Bacteriological (smears, tissues, cultures) - NONE TAKEN

Virological (frozen) - NONE TAKEN

~~NONE~~ Parasitological (AFA) - POSSIBLY 3 KINDS OF ADULT PARASITES

Toxicological (frozen) - FOUND BY MARTY FASTE

GROSS FINDINGS:

External (including skin, plastron, carapace)

35 LARGE BARNACLES ON CARAPACE

TUMORS - BOTH EYES, AXILLA OF FLIPPERS
 - R. CORNER OF MOUTH
 - L. LATERAL NECK.

25 LARGE + 100+ SMALL BARNACLES ON PLASTRON.

ADULT LICHENS + EGGS (ORDIPANCHUS)

OYSTER (?) ON VENTRAL EDGE OF CARAPACE

TUMORS - HIND LEGS - INGUINAL AREA AROUND HIND LEGS, BOTH EYES;
) MOUTH CORNER.

returned

Buick - 732-3123 \$1,200
7100,000

111

2/3 ^{11/88} Two skulls loaned to George Chun Chemind
Need to call him - next autopsy for
front flippers.

[Call to Gulko at home.
885-4139
from 395-6409 billed to 943-1221

Box#

① - Red float, 1 ^{swim} fin, 1 ^{blue} tarp, 1 ^{PAIR OLD} booties

② - Black bag - DIVE GEAR

③ ^{old} shoes ~~but~~ ^{CHOY} ~~but~~ ^{3-tents}
DIVE BELT + KNIFE

④ Red cooler Seal Berrin; med. kit; STOMACH PUMPING;

⑤ ^{SLEEPING} Bags +

⑥ 10 X 100' net (red floats)

⑦ 1-50' line; 2 Shockels

⑧ 10 X 100' (red floats)
3-50' line.

Box#

(7)

All shipped
to Kamuela HPA
2-8-88 ~ 340 lbs #80

1-75' wood-float net

1-Danforth anchor

• 1 rebar anchor 4 floats

1-40' line

(8)

1-75' wood-float net
Tackle box + 1/2 box
- Blue Tarp

2/8 Jim Harding - Traffic USA
called.

2/9 Nancy Almond 948-8726
"Greets" - Sea Turtle film showing.

10-12 FEB. 1988

Wed. - Friday
SHB & B.C.

Kitolo - HPA #2

AM INTERFERENCE KNOWN!

"THIN LIGHT" Fluorescent light company 805-987-5021

Patricia 113

Shenfree

2-16-88

Telecon w/ CLAY Schofield - Electronics

tech. w/ STEVENS RADIO - (206) 771-2182

(sp?) TUES.

DAVID SZYMARIK owner - Thin LIGHT

12 volt → AC generator in ^{Fluorescent} ballast generates high frequency / Harmonics.

He has encountered this problem with interference to loan units on yachts. one approach is to

Copper screen all lights - ground the screen.

Check length of battery cable to radio, and Antenna coupler control line (disconnect from back of radio - and try.) Very likely possibility, especially if static is on all frequencies.

If problem, then filter control cable.

"NOISE generator" 24 volt 20 watts 40 watts

① power source

② Fixture itself

"cure by distance"

Remote radio w/ speaker

2/16

June Glutmanis called concerning pole and line take of turtles in Waianai - Maile Ulu rei Navakuli Sid - - Referred to Witham.

2/17

SLP - He will measure. Steve Kaiser - with ship 4 juveniles from 1987 hatch to Vancouver Aquarium - March 1 shortly after midnight. to Seattle soon. Clean lagoon 9, 7AM

TWO others MARCH 9 EARL TOM

Telecom
from

2/17 Paul Griebel - Kwajalein Atoll
Sea Grant turtle assessment.

2/17 Wed

Plierst

Given to Bill Knowlton

FOR

Rose IS.

Tops

6817 - 6850

6918 - 6925

6935 - 6950

2624 Rousselle St.
Santa Ana, CA 92707

Filter Concepts Inc. (F.C.I.)

Salesman

(714) 545-7003

Elect. Engineers

Jerry Daunt

"Sofar panels"

Mainly deals with computer generated
EMR. Electro-magnetic Radio

Two routes of interference to radio-

1.) Feedback to solar-cell battery
powers ∴ radiates from all
wiring in building -- A filter
can be designed to stop this.

2.) Radiation directly from fixtures
(harder to "fix")

Test - isolate a fixture and power it
independently with batteries using as
short a lead as possible.

2/19-Results: Heavy static eliminated.
Siren "wires" still there intermittently.

#20 per filter
#600 Lab fee
#800
20 watts
40 watts
24 volt
CONDUCTANCE

"RV" junk market.
FCC Reg. computers only

BANNISH-OLD OFFICE LOCKED
CABINETS 0914 combination
0917

115

Gene WITHAM - Home 247-2339
Dick WASS - Big IS OFFICE (969-9909)
Victor LIMACHER NNNØ PEN/T
329-1311

Bob FERGUSON NNNØ ^{AZT}IMS
RH6NP TEL. - 235-3518

John Henderson 261-9491 - home

Rick Vetter
Box 641
CATHLAMET, WA - 98612

HARRY KON - KAWELA BAY, OAHU -
293-8614

GOLDIE GOMES - 395-5226

~~Hawaiikoi 395 4477~~

MARTY FAST - 922-2744 H.S.G.

STAR-BULLETIN Box 3080, Hono 96802

JAN TENBRUGGENCATE - 4444 Rice St
Box 524, LIHUE, KAUAI 96722

ADVERTISER - Box 3110, Hono. 96802

Box 396 → DOUG FORSELL - JA 422-0531 EXT. 3182
SF APO 96305-5000 → Mary Lynn Godfrey → 737-1897 HomeAASTEN - 373-2740 502 HAO STREET
HONOLULU, HI 96821

HARPER (HILO) → 969-1478

FWS Kilaua Pt - Moriarty - 828-1413

CHARLENE DYER - Volunteer - Lighthouse - 828-1520

PETER LUTZ - (305) 350-7325

KRISTEN O'BRIEN - (959-4031 Home

SHEILA CONANT - 948-8241
961-9544

MOKAPU CANAL CONTACTS

PARISH - 254-1687

GABERT - 254-1680

DALE ADAMS - 254-5055

PETE Hendricks - KOHALA DIVERS 882-711

MAILING ADDRESS - 9.117

MISAKI - 567-6680

Box 40, KUALAPUN, MOLOKAI 96757

Carr

Route 2, Box 906

Micahopy, FL 32667

NAV-8

CHIEF BREE VAUGHN PELTIER STREET
471-0029
422-5566

Albert Morita-Lanai DO CARE - 565-6688
Home - 565-6448
JIM COE - FTS 392-4009 117

GD SHALLENBERGER - 262-8081

ALOHA AIRLINES - 836-1111
WAYNE JONES - 943-8935 / 734-1011
VANESSA - 941-6157

Fred Berry - NMFS Miami
(305) 361-5764
WOODLARD - 4245
HIGP Box 13, HAWAII, HI 96719 889-5.
889-5122
Bishop Museum - 847-3511

LIBRAR
GEORGE H.

Bill Cooke - 422-0531
Box 396, JOHNSTON APO SF 96305
OFFICE - 3182
HOME - 2715

DO CARE ENFORCEMENT -
P.O. Box 1006
WAILUKU, MAUI 96793

NMFS Northeast Pacific
Center FTS 840-1011
(617) 548-5123

ANNE MEYLAN (212) 873-1300
EXT. 352 or 415
HOME - (212) 628-4130



FWS - 828-1413 KAWAI, DAN MOENMAY
home - 828-1431
TIM BURR - 471-3217

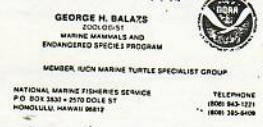
Jim Yarbrough - 293-9178
Terry Walker - 293-5837

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