

No. 110 - JULY 91

Mead
COMPOSITION
G.H. BALAZS

808-395-6409

100 sheets • (200 pages)
9¾ x 7½ in/24.7 x 19.0 cm
wide ruled • 09910

LIBRARY OF
GEORGE H. BALAZS

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1990-1991



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

GT = NORMAL
HEMATOCRIT WATSON OKUBO -
Dept. Health - 543-8309
Clean Water Branch -

LIBRARY OF
GEORGE H. BALAZS

ALAN BOLTON = 35-4590

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

LIN - PAGE
576-4747
VOICE 576-4748

Russ AM 10-2 PM
Thurs GATE 9:30

KAMUOIKI
395-9011
518

Ed Medicinos - 553-5702 HA1673B
Don Heacock 822-5977 Ed's Mom 558-8443 Uncle Fred 1
evening Sealife Park - 259-7933 558-8209
Beavers (619) 792-7556 Dent -
HPA G. Watson 885-8827 558-8440

N
S

Message for WGG = 263-6396
Seattle Aquarium - Bill Bruin
(206) 386-4360

Shannon Fitzgerald (206) 526-4212
FTS 392-4212

Brent Norberg FTS 392-6110

HARRY KIM - Big Is. Civil Defense 935-0031

COE - FTS 392-4009

Monica - Home 885-2078 Bill

MARC RICE - 885-4965 office 885-8250

HPA Boat "Kamakani"
HA 274YB red/white-20'

Pau Hava 536-7545

ROGER DIROSA - JOHNSTON - 621-3044 X3182

Hallascher - 933-3364 home 959-5982

KATAHIRA - Home - 967-7416 967-8226 VNP

Molokai Airport = 567-6140

GAC PI 254-3028 1254 molokai Blvd 96734

HPA - Box 428

Kamuela, HI 96743-0428

Puleloa - 553-3778 - home

3567-6696 - WORK LAURA

LOW
LOFF

old
open

TROY 524-7450

Thomas
Cook

TRAVEL =
532-1888

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

808-943-1221

EDNA

BJ HUGHES - 924-5243

GILMAETN - 259-5257
G.H. BALAZS

BOAT NO. =
HA 473XF
J. Cong - 967-8092
SCP91-01

BOB MORRIS - 254-1740 (Home) 262-9601 (Office) 420 ULUNI

→ LIN - 944 0250

SCP 90-08
HA 1673B

Z 502 BROWN 6/1/90

P 91-01 KARLA DONNA - NOREEN
RUSS MIYA - 526-1937 1125A HASSING ST. #6 HONOLULU 96822 Hung out in Sun By window

KAISER (Home) 239-6335 [Beeper 538-8043]
ALOHA - 836-1111 SEALIFE PARK = 259-7933

KAEL 732-4852 → 355 HUKILIKE ST. SUIT #11 KAHULUI, MAUI 96732

Heather Campbell Lanai 661-0330
(Patty) WEITZEL Maui office = 871-1144
DOCARE LANAI ALBERT MORETA 565-6688

ALBERT - C&C KUALOA 237-8289 Andrew Bulkley Club Lanai
(Mike Pomena) EUGENE AKAZAWA - JOH Clean water branch Club LANAI 661-5499 BOOTH

HALLACHER = home 959-5987 543-8309 NITTA = 737-7167



HAWAIIAN AIR = 537-5100

GSA - 139 239 MJD

BOORUM & PEASE
B&P WGG - 259-5257
Casey JARMAN 949-1943
Composition Book • 9 1/2 in. x 7 1/2 in.

ANITA Scott
879-0493
New mod = 661-5555

Available As:

Item No.	Sheets	Ruling
09-9130	60	College Ruled & Margin
09-9132	60	College Ruled & Margin & Paged
09-9134	100	College Ruled & Margin

WITHAM - MAUI 875
WHGBLO
George H. Balazs
992-A Awaawanoa Place
Honolulu, Hawaii 96825
808-395-6409

BAKKEW - MAUNA LANAI

MARLU - 637-6417

Dave Stevenson Kahala 734-2211 EX 7072
Sealife Park FAX 259-7373

Chuck Cook FAX - 680-9-488-1925

Doug DeMaster - (619) 741-0150 HOME

NMFS BOSTON WMAKER = MA 138 XF
"NEHU"
WOCKER ST

Telephone

734-4732
HOLLAND = Home
736-7400
932E

955-1036: 9241: # on 88

ACTION LINE 5254222

11am 1pm

MIKE MOSER = 263-3490

638-7329

Joy Connelly Box 672 Haleiwa 96712

548-4581

DIANE HIRSCH JOH COM. DIS. Box 3378 96801

637-4247

Barry Bloomfield Box 477 Haleiwa 96712

293-8770

AMBAEY, Eugene & April
Box 856 Haleiwa 96712

MARK LAMMERS - 922-0725

Jim Maragos =

MARK LAMMERS - 922-0725

Andy Kikuta 959-2656 home

Mike McCoy - KONA HOME 325-6936

DOCARES 33-4

HILO - 921-2291

KONA - 323-3141

KAWAI - 241-3444

MOLOKAI - 567-6618

BRIAN SUGIYAMA DOCAPE

LANAI - 565-6688

MAUI - 243-5414

Albert
Marta
Mike
Corallo

Terry Walker - 638-8817

Dick WASS

USFWS

154 WAIANUENUE ST. Rm 219

HILO, HI 96720

CAMP PECUSA - 667-9859

661-4303

KARL =
x 276

O'Green (904) 234-5709

Home 254-1740
Office - 262-9621
420 ULUNIU
KAWAII 96734

BOB MORRIS DVM

HA 274 YB - KAWAII KAWAI HPA

Bill
10

Don Williamson
Midway 471-1110
home x 607

10/c
need
Picked up
by Kar

Mike
Fin

35

KIHOLEO HPA #11 ^{JACOBSON} (904) 591-3161

~~USA~~ ~~1991~~ 24-26 OCTOBER 1990

Stephanie

51 greens (33 tag recap, 18 new) no tumors

Bill Puleloa - home = 553-3778

10/29 ARTHUR PATTERSON

NOAA INTERNATIONAL AFFAIRS

(202) 377-8196

FAX 202 377-8203

Sent

Mike Moser

350 ADLON ST

APT B130

KALUA 96734

263-3490

Terry Walker - Box 31 Haleiwa 96712

Don Williamson
Midway 471-1110
home x 6071
office x 416

NOT A VALID STANDING CASE

548-4371

oh why not - might as well enter it

10/28/90 1:30P James ACOBAN DAR
need found a dead hatchling C334, C335
on the beach w/ cut in back
at beginning of bellows"

Picked up
by Karl
11/1/90

office FRIG
Freezer

Glynnis NAKAI
23-B SQUARE Village Apt.
Route 116

MICHELE

FINN = 396-0433

Sunderland, MA

(413)

01375 (1)

MINNIE = 922-0211
OTB

HAKATA =) 12:18 pm
FUKAOKA) depart
1:30 pm

NAKA 10:28 am
JTB

434 pm

#150 tourist
reservd
1/2 price

MIKE MCCOY
73-1091 / AHIKAWA ST,
KAIWA-KONA, HI 96740

Terry Walker - 638-8817

DANNY AKAHA HOME
325-7946

10/29/90

sent NANCY TANO

KANEOTE BASE YARD
46-231 Kam Hwy
KANEOTE 96744

received a call from

weed

MRS. WOLTER

521-3243
239-3190

10/29

sent

47-881 Kam Hwy
Kaneote 96744

3/4 mile past Hygiene Store - Redgate
Dead smelly turtle been there
since Friday evening - had sent
for pick up or inspection.

sent TMR+

Dept. of Health
employee

SOO-JIN ANDERSON

1555 PENSACOLA STREET APT. #100
Honolulu, HI 96822

10/30 Clifford Chow 247-4640

sent Windward Community College

45-430 KOA KAHIKO

Kaneote, HI 32610

Writing an
article on tumors
for WCC newspaper



TAGS BENT OR OTHERWISE
NOT USED AT FFS
DURING 1990

2781 •

W-423

• = SAVED. ALL

W-73

W-369

W-321

W-522

OTHERS DISPOSED

W-363

W-518

OF

W-45

W-517

W-375

W-34

W-494

W-101

W-314

W-35

W-361

W-39

W-63

W-67

W-443

W-74

W-161

W-77

W-15

W-374

W-440

10/28/90

Nancy TAND - 22 K... Base / W-423

"Ironbit" parasite medicine
PRAZIQUANTEL 10 ml Bottle = \$27.00
HAWAII VET 56.8 mg per ml

11/1/90 Necropsies conducted in AZ -
wed Lisa HADJURY, MALIA (SZP), Russ, Karl
& me

DATA ON NECROPSY FORMS

sent / need to call back Department of Health

Watson OKUBO - Clean Water Branch
500 AKA MOANA
5 Waterfront ST, Suite 2500
Honolulu HI 96813

Decided to enter as VALID "STRAND" since report made / response undertaken
caretake for turtles - purpose

11/5 Mon. Dave Stevenson 734-2211 EXT 7072
Telecan report of 2' turtle w/ tumors lethargic
20 yards off Kahala Hilton Hotel.

Karl responded, No ACTION TAKEN!
Turtle was not severely lethargic

11/21/90 Friday

FRED & DORY YAP

22-E LAKEVIEW DRIVE

PASIG, METRO MANILA

PHILIPPINES

63-2-6733925

Need EAST PHOTO

Length/Frequency DATA

Frequency of occurrence

need Reese

nesting 2 Reports

- 1) Eyes ①
- 2) F Flippers ②
- 3) H Flippers ③
- 4) Head ④
- 5) Neck ⑤
- 6) ~~Claws~~
- 7) TAIL/Claw ⑦
- 8) Seams/scutes
- 9) INTERNAL

LOCATION, number and size by number and location

size of TMR

#1 = patch TO 1 cm

#2 = >1 cm 4 cm

#3 = >4 cm 10 cm

#4 = >10 cm ~~cm~~

Kathleen EWC 944 7159
Norma - 944-7746
Refreshments

VCR needed for Jacobson Video

Location number
and size of
industrial building

Size of TMS
#1 = 10' x 10' cm
#2 = 10' x 10' cm
#3 = 10' x 10' cm
#4 = 10' x 10' cm

Glynnis =
150 engraved

W964 - W999 TAGS returned + 4 pliers

Still on Tern W858 - W900

11/6 - Chain/cable Buoy on Grassy Reef - seen
by Russ MIYA - ACE STAFF ARAHAKI
Tel 438-9258
+ JOT need

11/7 Darra McDonald Telecon
DNA Blood work - Re: Eddie Louis
Need / Texas grad. student of Scott Davis
A&M Tel: (409) 845-6896

new addresses

CW Smith

37 D MAKAI

tel. 959-2751

Hilo 96720

Telecon

11/8/90 Kawa - DOCARE - "11/7 Blind turtle
by Waikiki Yacht Club"
Police Dispatch 949-7941

(9)

WP WP51

ACT M

Meeting w/ Sam Pooley

Jim - "Easy flow" software

Confraim - notetaker

Tape - Kathleen #2 per tape - ordered
TO P.18

Appendix - each element of
flow-chart exchanged

11/8 Another soft shelled turtle dead
at USCG "Kerser" (Petty officer)
Boathouse

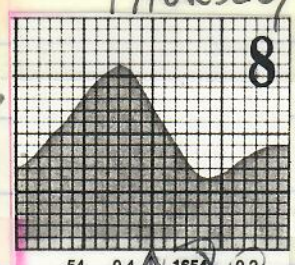
11/8 - FAD manuscript - need to see

GWB/SP meeting

Important to have technical explanations on turtles to wrap around planning document.

Thursday

NOV



Sheraton Waikiki NETTING TRIP

Russ, GHB, KB. foam float

Probably max. of 2 turtles seen, First to right of submerged seawall, then to the left. Quick breathes,

w/ flippers out of the water. Russ has detailed notes.

Russ - do breath holds - Swimming area

vs Bar
make sketch maps/or BJ have aerial photos?

11/13

Kurt Johnson

Found Mary Alice EVANS ²⁵⁹⁻⁷¹⁸¹ ⁵⁴⁸⁻⁴³⁵³ 2-8 years
 MONDAY Waimanalo Bay State Recreation
 Found Dead 25lbs C 41-858 LAUMILO
 NOON WAIMANALO, HI 96795
 11:45 - 1pm

NO TMR

→ [Drive way on Pauone side
Tort Horn (11)]

12/7/90

H₂O temp 25.0 Mark Reef

AHUOLAKA

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

12-7-90	K-BAY - AHUOLAKA	10:30am
PERSON RECORDING DATA: Russ		

OLD TAGS:		NEW TAGS: RFL	N556
		LFL	N557
		OTHER NEW TAGS:	

SEX: M OR F

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH:

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

22 Barnacles on plastron
 10 on shell
 water temp, 25C
 none

Released Mark Reef

12/7/90 AHUOLAKA

Russ
0+

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

12-7-90 K-BAY AHUOLAKA	10:30am
PERSON RECORDING DATA: Russ	

OLD TAGS:

NEW TAGS: RFL

N 558

LFL

N 559

OTHER NEW TAGS:

SEX: M OR F

STRAIGHT CARAPACE-LENGTH:

48.7

WIDTH:

38.8

NOTCH LENGTH:

48.6

CURVED CARAPACE LENGTH:

53.0

WIDTH:

47.0

HEAD WIDTH:

7.3

TAIL LENGTH: T

10.0

C

6.5

RIGHT FRONT FLIPPER WIDTH:

8.7

SAMPLES COLLECTED:

PLASTRON LENGTH:

40.0

WEIGHT:

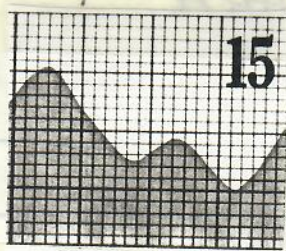
DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

left jaw hinge likely fish hook injury - possibly new tumor growth on hook injury area
 2 barn. - plastron
 1 " on shell see Tumor sheet p.46

Released Mark Reef

13

Nov



GRACE'S LEDGE

11-15-90

Balazs, Glynnis Wakai and Russ Miya
9:30am Swam out to Graces Ledge.

1 turtle captured - the only one seen.

Big link chain right through ledge projection

where turtle^s sleep. Yachtsmen braid cut off
snaked along the bottom. ^{SAVED} Buoy & cable is gone -
was here just a day or two ago. Possibly
further out now.

Departed ~ 11am. "Clifford" lifeguard
knows a lot of the spots where turtles
rest along Waikiki. Special management
area starts at Kapahulu sea wall.

2 pictures of A-marking 2 pic. of us w/ turtle
2 pic. - 3 prong * grind point of weigher down w/ file *

11-15-90 GRACE'S LEDGE

across from Hyatt Hotel

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Hyatt Regency Hotel - ~~Hawanan~~ village 12-17-90
- piece of Gill net

Engraved

11-15-90 kapuhulu wall - Grace's Ledge - hand captured
2 lateral left - letter "A" (white) 10:00 am

PERSON RECORDING DATA: Russ Miya

Found dead at ~~Hyatt Hotel~~ village 12-17-90
- piece of Gill net on 2227

see p. 57

OLD TAGS:

[Empty boxes for old tags]

NEW TAGS:

RFL

N535

LFL

N536

OTHER NEW TAGS:

Z227 R35

SEX: M OR F

[Empty box for sex]

STRAIGHT CARAPACE-LENGTH:

42.5

WIDTH:

34.1

NOTCH LENGTH:

42.0

CURVED CARAPACE LENGTH:

45.5

WIDTH:

41.5

HEAD WIDTH:

6.4

TAIL LENGTH: T

7.3

c

4.6

RIGHT FRONT FLIPPER WIDTH:

7.4

SAMPLES COLLECTED:

None

PLASTRON LENGTH:

34.5

WEIGHT:

27 lbs.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES):

3 prong marks - first central
6 small spots of pink coralline algae
no tumors
green & red algae sides
plastron

mouth checked - bright green spot on roof of mouth - possibly ulva.

15

~~obtained~~
~~Poxvirus~~

O'CONNOR et al. 1980

J. Amer. Vet. Med. Assoc.
177: 792-795

infected as hatchlings?

"SPIRORCHIDIASIS"
"A VISUAL ANIMAL"

11/11/90 Hawaiian Moving Company
SUN: "Elite II" vessel
200'
9' x 8' x 5' cage

→ partner = Scott Turner
"Hawaii Shark Encounters"
\$125^{an} / 2 day

MW Perry
254-5193

7/90 Darley - Dutton Lecker
Hawk gut
4/20 parasite

Tommy Roger Ventura Blue car
Gillnetter, at Kiholo

Susan Bredo

10 buried 7/90 885-6622
EXT-7013

Puleloa
8/20 eggs

Fagnus
Pohaku P.

TUMORS

~~need Phil Williams - Review comments~~

P&H 1982-1987 [?] 500
Laysan - 1988 ^{3.5 mo w} April 15 - ~~Aug~~ July 17 first seen; 1989 - 3 TMR (9 nests)

SIZE OF TUMOR CATEGORIES =

KANEOTE - HIGHEST RATE SEEN ANYWHERE IN HAWAII -

MIDWAY = 19 = 19

FFS =

PUNALUU =

KIHOLO =

KANEOTE BAY =

SEA LIFE PARK

FAGAN'S
POHAKU PILL

Puleloa
8/20 EGGS

"Multiple ulcerated and infected fibropapillomas"

"severely debilitated" "cutaneous growths" 10 x 10

Plastron thin and soft.

coelomic cavity - clear fluid

GTFP -

Indian River Lagoon System 1985-86 30 of 53 57%

Prior to 1982 - none observed. Hundreds

"heart and great vessels"

POXVIRUSES, SPREAD BY BITING ARTHROPODS, CAUSE SEVERE CUTANEOUS FIBRO-PAPILLOMA IN RABBITS

(17)

AND SQUIRELS (O'Connor et al 1980)

written
for
Frank
Larnish

Calendar year 1990

Done

Number of dives, at locations,
by purpose.

1/13/90 TUES meeting

Scott Turner
Hawaii Shark
\$125 / day

Multiple observed and infected *Alopias* "severely debilitated" "cutaneous parasites" (10 x 10)
Plastocyst thin and soft
Coelomic cavity - clear fluid
GTPP
Indian River Lagoon System 1982-86 27%
prior to 1982 - none observed. Hundreds
"Next and great vessels"

(11)

11/9
Friday

TIM
KATHY ARRADACE

> LAIG

Hawksbill hatchling

\$194.00
per diem

Miss Clark NW

955-2255

#1069 + #16 = 1085

1/13/90

Y CLASS

Elk,
Washington

Reported to Danna McDonald (619) 226-3941

Sandy Grushka

(509) 292-0109

1985 leatherback (w. oahu.)

0261

Man area

11/13

Kurt Johnson

dead

49-051 Johnson Rd,

w/ tumors

P.O. Box 381, Kaneohe 96744

11/13

Buckmaster

11/13

Sheri-Ann NAKAMURA

hapiolanice

350 ALOA B237

KAILUA, HI 96734

→
Debris
paper
sent

Student
sent

Christina Lee

P.O. Box 2754

HONOLULU, HI 96803

(19)

Sign in
sheet
for attendees
Name address
tel. #

11/12/90 8-12 Surf
first winter storm

Star-An NAKAMURA
320 Aoloa B937
KAILUA, HI 96734

Christmas fee
P.O. Box 8754
Honolulu, HI 96803

(19)

11/14/90

7am this morning

"white spot" on SHELL?

Need Serif

Sheree Lipton - 262-9800

81 Wilikoki Kaula HI 96734 Kaula

Dead 2016 turtle off Kaula

Picked up by Russ AZ freezer

Dr. Smith (813) 398-4251 Florida

18-23 NOV. 90

NAGASAKI JAPAN

HAWKSBILL Symposium KB 12/12/90

11/26

Steve Ball 521-8353

"Blackwell photos" Photos at Haleiwa 12/4/90

Adult ♀ Photos of Papilio at Kaula - turtle being held at Kaula Basin - WORKSHOP - KBA 12/7

11/29

James Cachero Reuter Pic. Ser. 595-6748 Kaula w/kaul at 2:30pm

Repeat
of
Smith
date
sheet

note - grind point of wrecker down

DUPLICATE
see p. 15

11-15-90

10:00 AM - captured

45.5 CL ✓ head 6.4

41.5 CW ✓ rt flipper 7.4

SL 42.5' plaston 34.5'

N 42.0' tail - 7.3 & 4.6

SW 34.1 ✓

weight - 27 lbs

18-23 Nov. 90

NAGASAKI TRIP

The Nagasaki International
Symposium on the Resource
Management of the Hawksbill
Turtle.

(Following pages) -

11/18 11/19 11/20 11/21 11/22 11/23 Need - FAR Sy curia campus
GTFP workshop
CIT.
Name =
vet.

11/20 T. ETCU
JAPAN

Nagasaki city 1571 founded Portugal
1602 Seminary

1966 booklet on tortoiseshell of Nagasaki
Bekko Technology introduced from
Portugal, not China. Finished
products imported.

1668 prohibit Bekko
from other countries
Reasons to "Luxurious"

- | Topics |
|-----------------------|
| → Title subject |
| Chinese cloud-pattern |
| → Itawari |
| → Itawari |
| → Palau |

Price went down
∴ not profitable
Low listed 1697 - 1897
(considered medicine)
Powdered

1702 - Bekko imported from Netherland
frame of glasses. Just frames.
Glasses themselves brought from Portugal.
Technology of Bekko - 1700's -
cross - advanced in S. America or
Spain.

1659 - Dutch imports of Bekko.

WIVES of Field lords used Bekko - wealthy enough
FAKE Bekko - Trade started
year?

NAGASAKI

1750-1780 - Bekko technique transferred
to other areas - Tokyo

1885 - 1000 Bekko items exported
to Europe

1900's - Fake Bekko marketed due
to high price.

Shogun controlled Bekko.

Dark hair especially good for Bekko.

Tokyo 1982 Survey Favorite Substance

① Metal ② Stone ^{Natural} ③ Bekko ^{16%} ④ Coral/plastics
20-24
750 y.o.

1984 Nagasaki Survey

Nagasaki Pref. second in Bekko production
compared to Tokyo.

1985 Survey - 641 valid answers ^{what items important} TO Nagasaki Pref.

① Sponge cake (Portugal)

② Processed seafood

③ Bekko 16.5%

NAGASAKI

→ 18 local traditional industries in Nagasaki
RANKS -

1) Livestock/food 2) Pottery 3) Process Seafood

11) Bekko products (1.7%)

Number of Businesses (6th)

No. of employees RANKS (6th) 5.4% of total

1989 - 60 Businesses 987 people
average no. employees ~~16~~

Skilled labor. Disabled/handicap people.

Family Run, 15% family
20% parttime

54% regular employees

Most of the products are for women.

80% products sold in Nagasaki Pref.

Tech. = Turn Bk parttime into reg.

Q Warmness/softness of women - ^{GRAFFILNESS}
That's why they liked to wear it.

Develop New technology to reduce consumption.

TALK BY -
Mr. Kikuchi 85 - Skilled Bekko craftsman.

11/20 220pm ^{Mrs.} SILALATI
NAGASAKI Suwelo (oh boy!)

1080 hatched.
5/90 500 survived

Need joint note
w/limpus
publish a
note

11/21/99 Tokyo Bekko

H. SAKIMA
Recs Carr's Book

evening banquet reception Mrs. NAKAKOGA -
~~PPP they associate~~ wife of head of
Nagasaki Bekko Assoc.
~~members of Bekko my book?~~

JUNKO YUMISAKI - interpreter

11/21 2am - walked to fish market -

Web. JAPAN DATE
9am START session TRAG Recoveries?
Janne Mortimer - Seychelles
NW view of hawk's bill

Siow - Malaysia -
1956 - 279,000
1978 - 250,000
1989 - 20,000

Joof - Schulz

Need -
JIM WOODS
BASK AT
COYMAN
FARM?

NAGASAKI

Junko Yumisaki

2-Chome, Tsukaguchi,
25-11-203,
Amagasaki, 661
JAPAN
06-428-4682.

Fumiko SAKAI

1225-11 KAWABIRA-MACHI
NAGASAKI CITY
NAGASAKI 852
JAPAN

Woody -
Change to "Endangered"?

~~need~~ GrFT
T-shirts
Stamp article
~~request slide~~
+ offer
Camera

Tokunaga pin
- Marydelle -
Where slides here?
Graded-color

* * High powered
STROBE like lamps

"Turtle Peace"

Bekko (How to make
dark areas light?)

Coastal video to
Mortimer - In Malaysia
till March.

✓ - Japan stamps to
Marydelle

Make Hawk slide
Hawksbill off Mortimer postcard

1) Bonnet - Turtle "skulls" photo
request sent
TMR workshop to
Donnelly

- 2) White Suits measuring turtle
- 3) Turtle hanging up for butches

Other

NAGASAKI

11/21
Wed.

Henri Reschert
Advisor to Minister of Environment
Surinam

SHAEP
Reduce import. on a course of self-destruction"

- Only import from countries w/ healthy populations
- no large import from 3rd parties.
- Ranching using doored eggs saved.

Most import factor - there must
be full protection of turtles
in the country where ranching.

"paper laws, paper parks"

Mr. Donnelly -

(Grade-colored shell 35mm)

Other Bekko -
Y. NISHIZUKA

H. IWAMI
H. SAKUMA

Woody

Pelly

Certification
question

Grey hair tortoise shell pins

Mr. KANIMAKI - Bekko

RENE - 11:45 AM



TAO = Turtle (TAIWAN)

NAGASAKI

11/29
Shanks
Aert

Verna Chun
1215 Alexander St # 505
Honolulu 96826

9th
grade

eggs   ADULTS
Pelagic juveniles
Young

Need
DIAGRAM

11/22/90 Thurs. STATEMENT OF
Behko BY: NAKAKOGA mod

~~9:00~~ 9 AM
Dr. DOI presentation

215
15
17 1/2
22 1/2
+ 10
225 Adv A female

"Should not be afraid of making errors!"

4
13
8
11

BioChemically duplicate
= Cell culture

NAGASAKI

Chinese cloud pattern - Art Dictionary

Whalers - Fishing people

Behko - Don't actually catch - just buy.
"The BJORNDAL EQUATION"

1145 AM E. LAPOINTE

No body has listened or changed their mind
from (to) anything said!

Kanokami - 24m reduce to 19m

Meylan/Limous - Research Plan

Betsy Reynolds -
MOP Newsletter. Love's

11/29 -

11/30 new rope at Grace's Reef. Bread
Bags tied there.

Need Snorkel gear into car.

Three brood areas for Hawksbills

- ① Australia/Indonesia
- ② Caribbean/Gulf Mexico
- ③ SW Indian Ocean

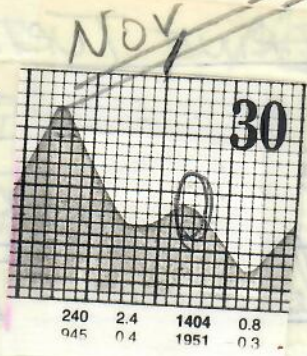
27-28 NOV. 90
PUNALOU Mop-Hilo

11/29-11/30 Chris - 226-5754 Jet Ski
 Box 272 Haleiwa HI 96712
 Live turtle w/ tumors ^{IN HARBOR} seen by tail, but still strong enough to swim off

Call Sea Life Park - Steve

11/30 Dennis Pierce ^{old address} seen p. 55
 98-500 KOAUKA Loop
 # 1-D
 ATEA, HI 96701
 Dives Portlock sees lots of w/TMRs turtles

FRIDAY
30 NOV 1990



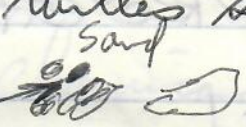
Sheraton Room 2803

WAIKIKI
OBSERVATIONS

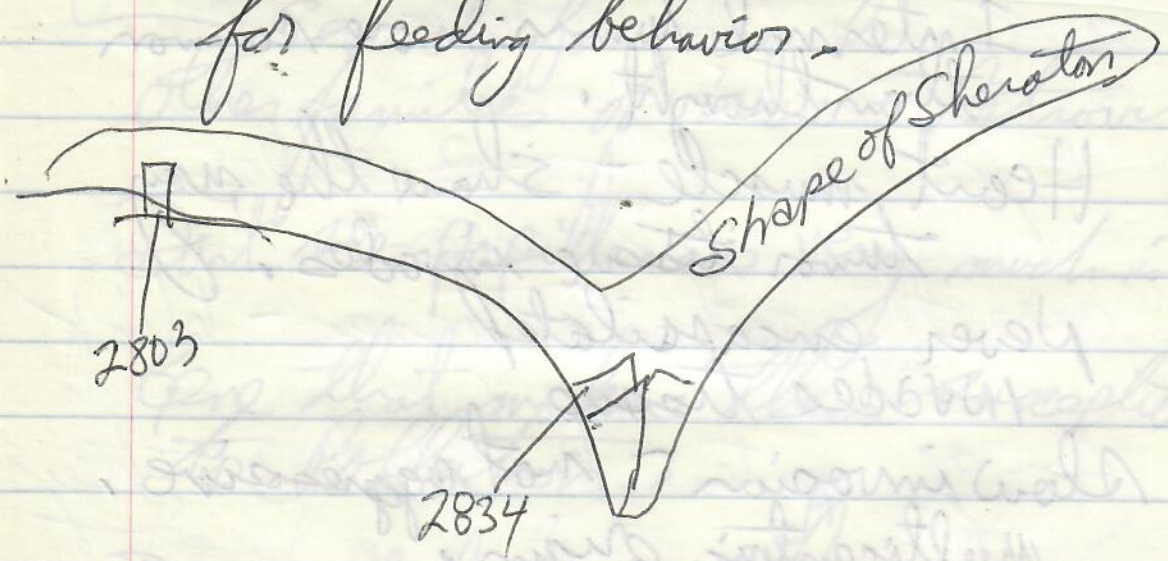
1^{pm} - 3:05 pm

GHB & RM

2 possibly 3 turtles seen -
all w/ seawall.
plastic bags; 3 vlogs; turtle



Numerous beach holds
for feeding behavior.



Narrow
channel
straight
out seen
2/6/91 from
the air.

12/4/90

WGG

MARINE TURTLE
FIBROPAPILLOMA
DISEASE
WORKSHOP

SS → immune system of reptiles varies with temperature

Too High or Too Low can have marked effects.

JH -

Pigment around vessels.

Internal tumors more common than thought.

Heart muscle - shows the way tumor tissue invades.

Never encapsulated
Invades tissue

Slow invasion - not aggressive.
Multicentric origin.
Not metastasizing.

like

ACANTHOSIS in humans

Hyperplasia

Tumor Workshop

MTFDW

12/4 TUES

Lew — 2 Caretta
R.E. Martin's Caretta

→ Epizootic fish tumors
MAP USA

Liver cancer fish - carcinogens

post-war surge in chemical

collect livers of
Bottom feeding carnivorous fish
at tanker sites for turtles.

Search for
other families of virus - Retrovirus

Don't see papillomas very much in fish.

Gene that makes them susceptible
to pollution.

Damselfish in ^{FLORIDA} have tumors.

JH not seen butterflyfish in Hawaii.

Mollusc in Indian River, but
gonadal tumors.

offers no clue to turtle tumors.

(39)

MTFDW

EYES?

12/4 JH

Needs a full spectrum of
lesions.

ET Shistosoma in humans -
results in Sclerosis / Plasia Fibrosis

Leeches

Trematodes

Virus?

Pollution?

Surgery 50 Tumors takes 2 days

ET

Eye Tumor - 3 slides
"Bernis"

once they get into cornea - blink

4-5% internal nodules - Keys

"Polymethyl compound"

not keratin

Paper in the 1970's describing this

MTFDW

larger look, more you find.
What first seems simple, becomes complex

CTF recent
Hybrid → Hawk and Green
has Fibropapilloma.

John Sundberg - request Deer
cow 35mm
slides

1. Is this disease unique to turtles?
2. What types of agents might cause this disease? How can we ID these agents?
3. What new techniques are available? with application to this problem
"mule deer" - resembles turtle Fibropap.

Based on relative amounts of various components - Papilloma, fibropap., fibroma

Mouse - Papillomas
Caused by chemical carcinogens

Jo Sundberg

MTFDW

12/4
TUES

Potatoes

- human papilloma - very little
fibrous tissue (connective
tissue)

S. Gunnison -

ANOLE

Anolis Carolinensis

~~555~~ irradiate
5550 rad whole body
immune suppress,

Cell-transformed
or tumorigenic

HGT 50-5 karyotype

- Dennis transfers info to epithelium
epith. controls rate of collagen
synthesis.

(14)

12

12/
We

RAMEZ

12/4

TUES.

MTFDW

Murray Dailey -
Mechanical Stimulation
frogs - limb bud from
parasite eggs - grew multiple
legs.

Interaction
infect w/ parasites - place
animals in different parts of the
bay - polluted & nonpolluted.

The responses you get are
different. VARIABLES

AL Smith
"Ocean Zoonoses"

12/5
Wed.

END of JANUARY - DRAFT TO CIRCULATE

expand abstract
Need Wendy + data

- Nominal Group Technique -

FRAMEWORK Research plan - Concess

Research objectives

↘ one of most significant diseases in
reptiles, most observable

(43)

MTFDW

12/5

Wound healing
"Patient"

free-ranging populations

unconventional animals, unconventional ~~study~~ funding

collagen production or collagen degradation

(43)

sent ✓
JG

New Yorker - "Brain fever" article
Mag. about Guam.
O Sam Pooley

12/6

Include juncture of abnormal vs normal
skin/tumor.

- Consortium Report -

→ Phil Williams - Convention Recovery plans
- Susan Scott

Needs

✓ - Data tables to Amanda ^{sent}

- Sundbey - Aloha Council Patch
Turtle T-Shirt

* T-Shirt w/Fibro

✓ - Benedict Immune Paper ^{sent}

✓ - Brian Bowen Paper (+ call him)

✓ - Moses PO

^{sent} ✓ USE FAX - Kitty Simonds - Cooper address

- 20" x 30" Tumor print

✓ - Request Cow/Deer dupes from Sundbey (45)

See data sheets p. 12 & 13

SEA TURTLE TAGGING / NECROPSY TUMOR FORM - Addendum

Capture Date/Stranding ID and Location:

12-7-90 K-BAY AHUOLAKA

Person Recording Data: Russ

OLD TAGS: RFL
LFL

NEW TAGS: RFL N558
LFL N559

OTHER NEW TAGS:

STRAIGHT CARAPACE LENGTH: 48.7

WIDTH: 38.8

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	Total	Remarks
EYES	2					L & R
MOUTH	1					
NECK	12					
FRONT FLPR'S	14	1	1			
HIND FLPR'S			-			
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
Total						

OTHER INFORMATION:

5.M. 4 margins of feet. flippers
Stephanolepas muricata barnacles

Approximate Tumor Size Categories:

- #1 = detectable patch to 1cm diameter.
- #2 = >1cm to 4cm.
- #3 = >4cm to 10cm.
- #4 = >10cm.

James Cashero - Renter 595-6748

SEA TURTLE TAGGING / NECROPSY TUMOR FORM - Addendum

Capture Date/Stranding ID and Location:

--	--

Person Recording Data:

OLD TAGS: RFL

LFL

NEW TAGS: RFL

LFL

OTHER
NEW
TAGS:

STRAIGHT CARAPACE LENGTH:

--

WIDTH:

--

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	Total	Remarks
EYES						
MOUTH						
NECK						
FRONT FLPR'S						
HIND FLPR'S						
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
Total						

OTHER INFORMATION:

--	--

Approximate Tumor Size Categories:

#1 = detectable patch to 1cm diameter.
#3 = >4cm to 10cm.

#2 = >1cm to 4cm.
#4 = >10cm.

Russ

12-7-90 K-BAY

MARK'S Reef

TMR WORKSHOP
FIELD TRIP

SL 59.9

¹² Barn. on ~~stall~~ ^{Dorsal} - (4.0)

23 Barn. on plastron

N 59.0

eyes - 4 #1, 1 #2 - (Both eyes involved)

SW 48.5

4 #2's front flippers #3 RHF - healed slit

H 8.5

NECK - 9 #2's & 4 #1's 3 #1 - cloaca

RFF 9.7

LBFF N560 (3-4) hind flip. 3 #1's

CL 64.5

RFL N561 LH N562

CW 62.0

leeches on tumours & leech eggs

PL 49.5

T 9.0

C 6.0

SL 79.8

12-7-90

K-BAY

MARK'S REEF

N 79.4

N563 - RH 2 Barn. Dorsal

SW 61.3

N564 - RFL

H 11.5

N565 - LFF

RFF 13.3

~~2 #1~~ - LFF L35

CL 88.0

~~2 #1~~
2 #5 on eyes 1 on rt & left

CW 81.5

rt flip - #1

PL 64.7

T -

C -

TMR WORKSHOP
FIELD TRIP

12-7-90 K-BAY MARK'S REEF

CL 52.0 1 Barn - ventral #1 LFT eye, #1 rt eye
 CW 48.0 2 Barn. - Dorsal
 SL 48.6 N 566 - RFL 5 #1's at fin flipper
 SW 39.3 N 567 - LF 3 #1's left " "
 (Both flip) numerous, suspicious gray patches
 N 48.1

Resight
 caught July 90 } 12-7-90 K-Bay Mark's reef
 & Sept 5-90 } had tags
 Z 207 - 2 pictures, photos of 4 branches (taken off)
 N 400 - has 3 barn. on it (taken off)
 N 507
 SL 63.8 1 #1 on rt eye, #1 left eye
 N 63.6 4 #1's at flip, 6 #1's left fin flipper
 SW 50.1 4 small patches
 CL 70.0 1 #1 at hind flipper
 CW 64.0 2 small barn. on pectoral (left on turtle) - 1 cm +
 .5 cm

Approximate Tumor Size Categories:
 I = detectable patch to 1cm diameter. II = >1cm to 4cm.
 III = >4cm to 10cm. IV = >10cm.

(44)

12-7-90 K-Bay Mark's reef

LEW'S TURTLE!

SL 49.8

SCA

SW 39.4

#2 on rt eye

N 49.8

N 568

CL 53.0

N 569

CW 47.0

H 8.2

PL 40.8

TMR works to
FIELD TRIP

12/10 ~~Steven~~ Heacock ~~goes~~ ~~Terittaris~~ - see next page
Cindy ~~White~~

PAPAA BAY

"N" tagged by Heacock previously.
Repeatedly being seen basking
during the daytime.

12/10 Beach Access committee ↓ Barbara EVARTS
637-6243

Harriett
Eisner
12/11 small
dead TURTLE
Kawela Bay
AZ Freager

P.O. Box 506
Haleiwa, HI 96712

(51)

12/3/90 sent

Examined by Karl, but not brought in.
Stuck in K Bay mudflat

Carry Lopez 239-4511

47-669 Kam Hwy - dead Turtle

S-87.2

[10/5/90 Reef 42 orig tagged]

N515, N516, Z224

Tags not retrieved

Howa

12/11 Tele

12/10 Telecon
Christine VELICER
ICF Clement
1108 Northrup Way
Bellevue, WA - 98005

sent

Contact w/NOAA
Looking at sea turtle take
Related to MMPA.

12/10 my bes

SGP
GWB
meeting
12/12/90

From the desk of



DONALD HEACOCK 10 Dec. 90

Leao George -
The managers @ Papua New
Guinea are: Joe + Terri Harris
Post P.O. Box 124
Anahola, Hawaii 96703
822-3713 (H)

Terri first reported the turtle
floating on 10 Oct 90; I tagged
it subsequently with Terri's
assistance; and, the tagged
turtle was again ^{observed} seen by
a Mr. Dwight Hija on
4 Dec. 90. Thanks for (over)

↑ N307

sent
Howard Gordon
66303 Halema E #108
Halema, HI 96712
637-8724

KB
Necropsy
12/12/90

12/3/90 Strand - Halema ^{near} -
This is the one picked up by Russ Myza
w/ Steve Ball & James Cashero

12/11 with nam recording &
Carla HA 938 XF for 12/14 Friday
Telex DOBARE Waiiki

12/10 6 rinsed fecal samples from Kawela
my best guess 95% AMANSIA sent to D. Russell,
5% Codium - 1 sample
selected tube particles sent to D. Russell for ID

SGP
GWB
meeting
12/12/90

Double space abstracts
2nd send to authors
1/30/91 draft
to participants

2, 3, 4 & 5 - SGP will worry about
see other workshop document

Budget - GWB needs

photos on covers
Epidemiology
Schwabe - Jarvis - Dailey
write-up

Research in "State UNIV system"
Sea Grant funding. Each participant
go to their UNIV. Sea Grant Director.

GWB
meeting

Bill's work plan

early Jan 91

Tabular form - table

Fy 91

82k + 12k + 50k

92

12

50

93

144k

94

MATRIX Table for workplan budget

Categories

Habitat Analysis

Tumor survey

Assist other areas SPROP

Rec. planning issues

Scout

Dennis Perce
98-151 PALI Momi #110
AIEA Suite 226

96901

12/16 Sunday - Choy - Dead Turtle
47-859 Kaim Hing
Mr. Hee

12/17/90 Robert Smith
Telecom Re: PALAU New PA - FWS

FAX 503-231-6243

* need - New Yorker
NY - The press release
- S. Scott article

get net web

Telecom Jerry Crow
12/17 Monday
Fresh dead turtle - Hyatt Regency
2227, N535, N536 Hotel

see p. 15

found turtle

836-1111

Budget #29.99

ALOHA

19 DEC 90 Wed

~~Cancelled~~

8:45 Am

FL 62

9:12 am

3:50 pm

FL 37

(R3-4) D777, D778(L2-3)

12/10 Friday
Released 2:45
ONE MILE OFF WAIKIKI

Photos see p.

Need - Fide chart
FRAY

Mari & Washi - call Doc/AMFS
- stomach flush

DOVE
QUICKLY

12/14 trailer - hatching hawkbill
- S = 4.5 x 3.5 mm
total black ventral

"Plays Dead" - like lump of tar.

12/16 Sunday Choy - dead Turtle
w/TMS 47-857 Kam Hing
Mr. Hee

Picked up
by Karl -
A2

12/17/90 Robert Smith
Telecon Re: PALAU New PDA - FWS

sent

FAX 503-231-6243

* Need - New Yorker
sent - TIME press release
- Si. Scott article

gill net web

Telecon Jerry Crow

12/17
Monday

Fresh dead turtle - Hyatt Regency
2227, N535, N536 Hotel

see p. 15

found wrapped
in blue bag

(57)

Friday
12/18

(X-501 Tag)
given to them

Interview

TASHA LEONARD

Tasha Leonard
45030 Lilysuna Pl.
Kaneohe HI 96744

UILANI LINGO

Uilani Lingo
630 Oliauna St
Kailua, HI 96734

Saint
ANN'S
School
8th grade

"Turtle County" = AHU-O-LAKA

12/18 Peter Smith - 805-655-835
Star-Free Press
Ventura County
Tel Aviv
Interview

FRIDAY STRAND
12/18/90

Y313, Y314
AHU-O-LABA

Z220

P.16
300K17
5/17/89

ORIGINAL
Many small tumors
both FF's, cheek, both eyes,
head, pitted flippers right
and left massive tumors
"4 lobes on tail"
"7 BAENS
ON P2"

~~1/18/90~~

SL-59.8 x 48.1

N=59.4

CL=64.0 x 60.0

GHB
KB
BC

9/5/90 (Z220 added)

Photos of
"Numerous tumors"

SL-60.9 x 48.9

N=60.6

"Sampled leeches"

CL-64.0 x 60.5

All DB & VB barns measured

and removed 9/5 (see P.104)

"old nototool 2nd BK19"
CAT left Y313"

IN A-2 Freezer

12/18/90

[AT DEATH] = S=61.2 x 48.4
C=64 x 60.2

Call from Rinaldo

Pasquez DOCAEE

OFFICER
Neil YORO

12/22 12:35pm Officer 220
SATI: Airport Lagoon - Turtle shot
in head - 4 hpd present, ^{NO}///
Transferred to me at
20lbs at HL alive - put in sack -
A2.
to Kewalo 12/23-

NOTMR

Dead - 12/29 at Kewalo
TO A2 Freezer

DOCAEE

12/25 Mr. Kikuchi - Airport Lagoon
TUES 12/26 TO A2 Freezer. 4 HP^D involved.
Christmas Day

Telecon Don Williamson - Midway

12/31

Tel. Auto Von 471-1110

RE MARK Seal ^{Adult} Birth on SPIT IS.

Office X 416
Home X 607

1991
Telecon 1/5 req. leatherback stranding

→ leatherback article 17 JAN 91
→ necropsy manual 14-17th JAN

(61)

3 PATCH REEFS BY MARKER 11 ?
AS PER CHRIS BOGGS

1-2-91 1991

KB, Steve Ball, GCB, Charlie Gilman, Barry Choy, GHB (6 TOTAL) -

Thy 1/3

See p. 65, 67
64,

+ DATA FORMS



Depart HIMB for Mark Reef - arrived 9am
Calm seas, slight swell, overcast w/ cool AIR.

ONE FLOATING FEZAL PELLETT ^{SAVED} RETRIEVED - OTHERS SEEN.

23°C Seawater - Glass Thermometer

Less ALERT, EASIER TO CAPTURE DUE TO 23°C seawater,

NEED - PORTABLE PARTITION FOR 16' whales.

TOTAL 23 CAPTURED

(43.5%) 10% w/ Tumors 5 #1's

(26.1%) 6 RESIGHTING 2 #2's

(3 TMB SCORES = #1, #2, #3)

17 Newly tagged

Thursday
1/3/91

Bert Zimmer Mobilia Condo
637-9311

Turtle up/under shore and went back in.

MARK REEF

JANUARY 2, 1991

Wednesday

GCB recording

See also p. 182-185 data sheets

TASS 192-195

SL NLSW CL CW P

① N 582 RFL 45.5 45.0 35.9 48.0 43.0 36.5
N 583 LFL

② N 584 RFL 44.7/44.2/37.5 48.0 43.5 36.3
N 585 LFL

RESIGHTING
③ OLD Tag Y904 Y905 6/15/90 38.7/32.5/31.6 41.0 36.5 30.9

RESIGHTING
④ OLD Tag Y909 284 (Coraline algae) 6/20/90 38.7/38.0/32.9 41.0 36.5 30.5

TMR ⑤ N 588 69.0/68.7/52.4 74.5 67.0 -NT
N 589 SCORE = #7 11 DB 1-#1 patch R 1-#1 bump EYE
N 590 largest barnacle - 44 mm

⑥ N 591 R
N 592 L 41.9/41.4/33.4 44.0 38.5 32.5

⑦ N 593 R 39.4/38.8/32.4 41.5 37.5 31.2
N 594 L

Clean labels

New Recruit

⑧

⑨

TMR

SCORE = #1

⑩

RESIGHT

TMR

SCORE = #1

SAVE

RESIGHT

⑪

⑫

TMR

SCORE

1/2/91 MARK REEF

Tags	SL	NL	SW	CL	CW	P
⑧ N 595 R	43.6	43.1	33.9	46.5	41.0	35.2
N 596 L						

⑨ N 597 R	57.4	57.2	43.8	62.0	54.0	
TMR N 598 L		8 DB		6 VB		
SCORE = #1	1 #2 CHFIPper					

⑩ OLD TAG RESIGHTING Y 891	52.9	52.7	43.0	57.0	50.0	42.4
	R eye - 1 #1 tumor					

TMR Z 75	Caricles removed	DB = 12 mm	8 mm
SCORE = #1	Y 892 LHX8 / 8 mm	7 mm	5 mm
	12 mm	10 mm	8 mm
		5 mm	3 mm
		2 mm	10 mm

SAVES 6 VB - 10 mm, 7 mm, 8 mm, 8 mm, 5 mm

RESIGHTING OLD TAG Y 853	37.3	37.0	29.2	39.5	35.0	29.7
⑪ Z 55						

⑫ TMR N 599 R	44.8	44.5	36.6	47.5	47.2	NT
N 600 L		4 DB		R eye 1 #1		
SCORE = #1		8 VB		L eye 1 #1		

GCB
Recording

JAN 2, 1991
CONT.

Wednesday

MAEK
REEF

	Tags	SL	NL	SW	CL	CW	P
(13)	Y726R Y727L	41.1	40.7	34.2	43.0	39.5	32.9
(14)	Y728R TMR Y729L	54.1	53.8	40.9	58.0	48.5	43.7
				R eye 1 #1			
	SCORE = #1			Neck 1 #1 patch (3 cm diameter)			
(15)	Y730R Y731L	39.8	39.2	31.4	42.0	37.5	31.0
(16)	Y732R Y733L	53.2	52.9		59.0	53.0	42.5
			1 DB	3 VB		1 DB SUSPICIOUS Bump L eye smooth	
(17)	Y734R Y735L	44.5	44.1	39.5	47.0	42.5	35.0
			1 VB	2 DB			
				L eye suspicious bumps			
				NOT cataloged as TMR			

Sory Schultz - retinal Seattle Aquarium
to be double tagged with KIT 112
and shipped to Eckert's for release

(67)

* Initial Grafts
by Herdichson

Seam of 1st & 2nd CAT R

carapace taken
TO 10th workshop

(Note: ...)

Hot Cataloged
22 TMS

Hot Cataloged
22 TMS

Earlier report of Green w/ tumors?

dup. photos in file

1/3/91 Telecon pm at home with Don Williamson
Thurs. CL 135cm leatherback washed dead
at Frigate Point - very fresh - head, 4
flippers and tail amputated. Sharks in area -
largest said to be 8'.

1/4/91 ^{Frozen and shipped} Hawaiian Aikē
Shippy Hau - Mon 12/31 strand
Friday as ~~part~~ Maui
hauled by the Maui Humane Society -
TO A-2 freezer

TRAGEDY M538 M539
CL = 50 x 46

1/4/91 Telecon Brent Norberg regarding
1 Dec 90 stranding of a 49cm loggerhead
cold stunned at a beach, daven
frequently by vehicles (OceanShores, WA).
Passed a 12cm polypropylene frayed rope.
Sory Schneider - vet. at Seattle Aquarium
to be double tagged with KIT 112
and shipped to Eckerts for release.

Earlier report of Green w/ tumors?

Dup. photos in file

1/3/91 Thurs. CL 135cm leatherback washed dead at Frigate Point - very fresh - head, 4 flipper and tail amputated. Sharks in area - largest said to be 8'.

1/4/91 Friday Frozen and shipped Hawaiian Aie Shipper Hau - 12/31 strand as ~~Maui~~ Maui handled by the Maui Humane Society - TO A-7 freezer

TRAGED M538 M539 CL=50x46

1/4/91 Telecon Brent Norberg regarding 1 Dec 90 stranding of a 48cm loggerhead cold stunned at a beach, dewatered frequently by vehicles (OceanShores, WA). Passed a 12cm polypropylene frayed rope. Sery Schneider - vet. at Seattle Aquariums to be double tagged with (KIT 112) and shipped to Eckerts for release.

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

Kahala Hilton 5/21/91 TUESDAY
 PERSON RECORDING DATA: 7 AM

OLD TAGS:

TUMOR SCORE: 0

NEW TAGS: RFL

No tags LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:
 sea life park (short tail) 5 or 6 yr. old

(P2)