

BALAZS

2 of 2

DAILY LOG - BALAZS
5077117
AUGUST 1980 - APRIL 1981

LIBRARY OF
SERGEI M. BALAZS
UNIVERSITY OF HAWAII
Hawaii Institute of Marine Biology
Laysan Island • P. O. Box 1346 • Kaneohe, Hawaii 96741

ALSO
L. Aycock?

12/11/80
12/12/80

PLYE : (1) Response

Bylaws (OCT 1977) → Elepaio
XEROX EXPAND

[Doc. of INCORP.]

Robert ~~CANN~~
~~Washington Ave~~
950 Third Ave
NY, NY - 10022

Need Book

Recording Secretary:
NAME/Addresses of
officers - B.O.D.
for Elepaio

Fanny Dale

GM Campbell?
947-6797
SB Kamohaku

SUE S/Hank
Alphabetically

local members (100)

Telephones:
George -
1717 Ala
wai Blvd.
Campbell

List of Labels → Elepaio MAILING
make extra list

941-1356

TELEPHONE:

Kenny Wong

Membership
Joint - (900)
- peels 900 labels onto
Elepaio

Treasurer - HAS
Norris Henthorne
2832 Kikei Pl
Honolulu 96816

Telephone: 734-7562

^{Laurie}
LORI BUCKLEY - 235-6388
(EASY RIDER) ~~☺~~

12 DECEMBER 1980
SATURDAY

article
in
files?

(check Fisher 1967 ^{about} Black-footed
Albatrosses)

Telephone at NW Marine Mammal Lab - NMFS

Linda Jones - ^{suggestions from} Bob DeLong

Where can I find historical
basis for drift net
fishery for salmon - Dahl Porpoise
interaction.

Alert
* need
copies
M. Fisher
opxx
WRITE TO
VIAL HINDS

Kitty - WJ FMC - 523-1368

Spiny Lobster Management Plan
extra copies needed

Bob
Brownell

R. L. BROWNELL

D-17

CAMBRIA, CALIF. 93428

12 DEC 1980

SATURDAY

Discussions with Reg Gooding

concerning Na Kali - Nugalolo Kai

sightings of many turtles

nearshore of 50-60 ft or time. ~~helped~~

worked with
Bishop Museum excavations

Lots of turtles subsequently taken

December 18, 1980

FRIDAY

Sheila Conant seminar concerning Millerbird study at Nihoa - she will go back in January & Aug-Sept.
Objective - possible transplant to Necker, or some other site.

Notes - Brown Boobies can be sexed by color of feet and eyes.
Birds eat insects, plant material, etc.

FFS - EAST ISLAND
15-19 DECEMBER 80 CLEAN-UP

Lisa Gowen - 941-4120
Malaysian leatherbacks - tourism

12/22/80 SATO - 546-2830 - reservations
Monday depart Cozt. 28 Jan ~ 5PM
arrive Pago 9:30AM; depart Poly. 9:45AM 30 January;
depart Poly. 11 Feb 1 ~ 11AM Afa; depart
11 Feb 1 ~ 11PM Pago.

12/22/80 Scott Anderson reports that he confiscated 12 cans of turtle soup at hotel in Guam - on the menu - I have a label from one of the cans.

* Steve Kaiser 259-7622
12/26 Turtle tank cleaning
FRIDAY

12/22 Bruce Carlsson Waikiki Aquarium -
sea turtle turned up that was
found in a "drainage ditch" by kids.

12/22 Call from Jim Sternberg, Washington DC
concerning Spiny lobster plan
(202) 466-4996

12/23/80 Jim Brock - 845-9561

sent
Kaula + calendar
12/26/80

Ed Shallenbeyer
% S. Rookum Marine
2900 Washington Street
Port Townsend, Washington 98368

(904)
375-8937

HOME ADDRESS: Meylan
3915 SW 20th Drive
Gainesville, FL 32608

26 Dec
2071
2985
No 1
2980
3257
2986
2070
No To
3283
3286
3285
2984
2979
3252
2981
2987
2983
2061
2960
2982

Chris noted that Pomakai vigorously chases green in reef tank - ACTUAL COPULATION

26 Dec 80

SLP Pond -
Portions of blue plastic tarp left on at least 3 turtles

<u>TAG NO</u>		<u>Length</u>	<u>Sex</u>	<u>Species</u>
2071	1	89.1	F	
2985	2	79.4	M	
No TAG	3	86.1		LARGE HAWKS BILL (Hawaiian)
2980	4	88.4 84.4	M	
3287	5	58.3		
2986	6	86.5	F	
2070	7	83.5	F	
No Tag	8	79.3		HAWKS BILL (W. Samoa)
3283	9	71.8		
3286	10	51.9		
3285	11	62.2		
2984	12	87.1		
2979	13	→ ?		
3282	14	95.1	F	
2981	15	79.0	M	
2987	16	96.2		
2983	17	78.7	M	
2061	18	85.1		
(2060) 2982	19	→ 93.4		

BW photos of hawksbill & loggerhead

HOME
ADDRESS:

C. Kenneth Dodd, Jr.
1530 Northgate Square
Apt 22B
Reston, VA 22090

30 DEC
TUESDAY

to sea life park with Alanham & volunteer "Steve"
to feed and care for turtles.

30 December 1980

TUESDAY

SL - < 8 AM

(one) hatchling found by
sea pool. Many hatchling tracks
seen in sand beach. Virtually the
only exit route from sand beach
is the water by the pool. A search
for more hatchlings revealed
nothing. "Pogk" site in beach
excavated - Remains as follows:
(Mud at rest bottom) -

30 DEC
TUESDAY

25 - hatched - (egg shells)

39 - infertile ET E.E.D.

8 - E.E.D. death

6 - late ^{embryonic} development, dead (almost full term)79 TOTALOther 24 hatchlings probably were
eaten by large turtles in ponds.Given to
Marlyn Lee for
Docent program

A second hatchling found later. ^{SITE} UNKNOWN

HATCHLINGS:

1. 30.5 grams 54.2 mm - SL

2. 31.1 grams 54.6 mm - SL

(Will not eat)
finely cut squid introduced30 DEC
TUESDAY
226.5°C

Two turtles in Reef taken out
for tagging with new INCONEL tags:

30 DEC 1980

TUESDAY

RT ♀ green turtle applied: L front flipper # 5101
S length 74.5 cm R front flipper # 5102
S width 57.8 cm

HAWKBILL ♂

S LENGTH 72.6 cm applied: L FRONT FLIPPER # 5103
S WIDTH 51.5 cm R FRONT FLIPPER 5104

Lengthened tail - attempted copulation observed each morning

30 DEC 1980

TUESDAY

3286 RFL existing
5105 LFL new application

Two captive reared greens
captured from Turtle Pond
and new INCONEL
TAGS APPLIED:

5106 RFL new application
3287 LFL existing

SEA WATER
22.5°C

Noted this relatively small turtle with

TAG 102 - Black plastron
(on carapace) S-89 x 76 measurement

See page 413 for schedule of photos
taken of turtles this date 12/30/80.

DBA - 1010 RICHARDS ST.
548-4018

HWP
H.E.I.S.

2 January 1981 - FRIDAY

Meeting with Wayne Gagne

Home - 941-5659
BP
MUSEUM - 8473511

1. Programs for General Meeting - frequency
2. By-Laws review
3. Membership - distribution
4. Committees - appointments
5. Editor

"More Conservation" * (need to call to offer Cons. Comm.)

Meeting with Norris

- TOPICS -
- Methods of bookkeeping (need advice - books)
- Transfer of fund to SC -

monthly Budget

- (Contact Bob concerning -
- 1. Schedule for book payment
- 2. Exact costs
- 3. Chairman of Committee?

- Ekpaio "Conservation briefs" as per oryx

Telephone conversation with Bob Pyle

Marilyn Milberger - ~~536~~ 5337 845-7152
Corresponding Secretary (G. Fulkerson)

- Need 1. form letter for response
- 2. "Conduct all correspondence"
- 3. Preserve Records
- 4. "Publicity" - for membership
- 5.

- Kimmy Wong 949-2800

- Susan Scherck 488-4974

Bob Pyle
work - 836-2776
Home - 262-4046

Fanny Dale - 737-5716
A. Manning -

Agripa
for Board Meetings
988-6921
Home 546-5669

vertical text on right margin

Row of easy rider
239-6477

NEED -
Book for
HAS Business

4 Jan 81

Raito Bank saw big adult
on last trip to Maro Reef -
While on recent trip at Necker,
saw seal 3-4 miles from island
on one of the stormiest days.

call from Sean McKeegan -

Oriental Publishing Company

Dr. Jen An Chang
Geography Dept - UH
947-4138
948-7698

P.O.
Box 22162
Honolulu 96822

ROB SHALLENBERGER
261-3741

Steve Kaiser reports that elderly man neighbor in
Kulouou was source of SLP turtles - he had them in pond.
missing
Rt Hind

5 JANUARY 1981

MONDAY

Largest female
SLP - scheduled for
release * 1/6/81 from Makai Pier

(S) 107.9 x 84.0

(C) 112.8 x 105.0

previous LFL squashed
tag missing

TAG NOS HEAD 16

- Hawaiian Hawkbill biting RFF -

5107 RFL ~~STG REL~~

3726 LFL

5108 ^{FL} Through
scale

* Released 1/6/81 - dumped from truck bed off pier -
swam away immediately very
rapidly underwater - NO surfacing seen.

5 January 1981 "Drain-ditch" turtle
 Monday previously turned in to ~~SLP~~ ^{WAIKIKI AQUARIUM}
 Released at Bellows-site #1

2/11 AM (S) 38.8 x 32.8
 (C) 41.2 x 37.0

3727 HEAD 6.2

LFL PL 31.2

TAIL 7.2

4th Central - small piece missing mostly from plate.

(Held overnight in cup at home -)
 Algae scrubbed from head & surface.
 Dove and surfaced several times
 as it swam out off breakwater.

6 January 1981 Juvenile green - Reportedly found at
 Tuesday ^{1/5/81} "beginning" of Bellows - had
 had it on the beach (?) Turned in to SLP

3728 RFL 2-3 skin barns; almost free of
 green/red algae; clean body; small amount
 of white coralline on shell.

5109 LFL C-52.0 x 45.0

S- 49.0 x 38.5

PL- 39.6 cm

[fecal matter collected
 from tank at SLP]

Released Bellows site #1
 at 10 AM. Swam away vigorously.

- call norms
- Report for Lytha

967-7352 Mull - P.O. Box 27571
 Volcano, HI 96785

C.J. RALPH - 546-5669

EPA - Vicky SUHAKO - 546-8910

January
~~Friday~~
 Wednesday

1 pliers &
 tag nos. 5110-5125
 sent to Harry Kani
 Division of Aquatic & Wildlife Resources
 Agaña, Guam 96910
 (copied letter in file)

need:
 Kaula -
 Navy Memo: ENOUGH INFO TO MAKE A DECISION
 copy of permit
 " " study plan
 " " budget
 Total cost to taxpayers

Sandy Alvalani - ^{GIFT} Book shop manager
 at the Waikiki Aquarium 922-1077

Derral Herbst - last record of
Euphorbia collection at
 Moomoani - Bergerer - 1928

Tokelau sea turtle survey for ELEPAIO
 (would make a nice write-up)

1/7/81
Wed.

sect- Planetary and Geo Sciences
HIG

Tom ← McCard 948-6488
wants information on Turtle Rearing:
Francesca A. Mochien
Box 813
Kolonia, YAP 96943

1/8/81 Bruce Bickel Waialua area
Thursday Judge Takan - ruling concerning
green turtle case - prosecuted by
State under Reg 36. "thrown out court" due
to absence of expert I.D. that it was
indeed a green turtle. Wouldn't accept Bickel's
testimony, as an authority. Turtle given to me by Court.

1/8/81 Gilpin mentioned that Ruth told
of high seal count at Tern Island row
being 46.

1/8/81 Clare Senecal - Editor,
Telephoned FTS 235-2407 Endangered
Species
Concerning to page Technical
ES Booklet - page Bulletin

Need for ending the

* Headstarting, Position/discussion paper -
as per request by Nicholas Mrosovsky

headstarting vs. natural course
juvenile predation vs. hatching predation
(levels and susceptibility (behavior))

SIMPLE TERMS

Proof of effectiveness can only be achieved
through resightings - no inferences
or positive statements can be made
if no observations are made.

intuitive

Also - IDEALLY
"Natural course" needs to be known
to have baseline comparison.

Ultimate - identify as becoming functional
members of the breeding colony, at rates significantly
higher than would occur if "head-starting"
were not carried out.

Problems

Don't know survival rates for
"no head-starting", or "head-starting"

Due to 1) tag retention

2) time

3) long-term saturation breeding
colony monitoring

Need for enduring tag

In lieu of ultimate - lesser - test of
proof of head-starting success may be:

Behavior

Rebase site - subject to human exploit vs none in region

12 January 1981 Monday telephone call from -

Jan Gorham
 Discovers Magazine
 Room 3929
 Time-Life B
 Rockefeller Center
 N.Y. NY 10020

- concerning preparation of an article
 on sea turtles
 Conservation strategy + my ^{conference} articles
 sent AIR Spec. Del. on 1/12/81 -

Levels of sea turtle "take."

0. Abides by law - would not take, even if given the opportunity

A. Due to conservation ethic

B. Due to existence of law/penalties resulting

1. Normally abide by law, but would take if given a easy opportunity.

2. Accidental capture

A. Animal dead ^{1. law} throws it back into ocean
2. no desire for shell or meat

B. Animal alive ^{1. law} throws it back into ocean

C. Animal alive ^{1. law} kills and keeps it

3. Direct intentional take

A. Home food subsistence a. dire need b. cheap food supplement

B. Money - commercial sale

C. Shell

D. For the hell of it - because it's "there"

Telephone call from Bruce Binkle DOCAFF
 on 12 January Monday - ^{or yesterday} today one of the
 agents saw 3 turtles in net
 being brought in by boat at Maunaloa Bay.
 Kello stopped Agent from invoking
 Reg 36. Chapter 195 isn't applicable, being
 green is "threatened".

Fisheries want Reg 36 dropped
 during the course of rewriting all
 regs to RAMSEYER format, as
 directed by the legislature.
 Public hearing will be held, if need be.

POINTS - ① Federal listing did not "supercede"
 Reg 36. It only voided "Allowing take
 of turtles 36" and up" - Other
 aspects are still valid: No take for
 hawks & leatherbacks. No green take
 in NHI. No take under 36". For greens,
 this is only basis for enforcement
 by DOCAFF - State of Hawaii.

Bottom line of reg says that
~~voiding of one~~ voiding of one
 part will not effect legality of
 other parts.

② Added burden of reg 36 enforcement
 would probably be negligible.

DOCAFF
 ③ Agents must enforce total
 protection of hawksbills & leatherbacks
 under Chapter 195 - must get close to I.D.

(A) Loss of state enforcement for greens would be advertised, and offer essentially a clear-field for take because of absence of Federal officers on outer islands.

However, it would be acceptable to "drop" (a) portions of Reg 36 that

- (a) were superseded federally
 (b) drop whole reg, but add 'Threatened' to 195.

* (5) This will be a significant action ∴ EIS should be required.

(6) F&D enacted - proposed Reg 36. - Therefore, they obviously supported title protection (and others) H&S worked vigorously to have Reg 36 enacted.

Does BLNR-DLNR-DFG - DOCARE get Federal funds?
 If so, they may have to prepare Federal EIS under NEPA.

78

TRANSFER to Card - then compile data
chronologically for typingINTERVAL
RATE
Rows DATE SL SL SL SL SL14 JAN 81 TUAMOTU release of Bellows.
Wednesday ~ 3PM Site #12497 RFL"Trapped" by rocks for a short
time - several breaths seen - swam
slowly out when last seen.2081CF Remove (dorsal knobby growth under tag)
5th scale - distal end.
⊗ put onto 4th SCALE RIGHT front flipper5051 RFL (new)

S - 56.7cm x 46.2

C - 60.4cm x 53.5

PL 46.0 cm

Head 8.5

TAIL 11.5

WEIGHT 54 lbs

Light yellow plastron

- Photos of dorsal & ventral

Free on "burn" depigmented area present on
left hind flipper - dorsal surface.

Should show slightly in photo.

while

in cages at C.I.

led today: Acanthopora + Hydroclitrus

C.I. capture transferred

79

14 January 1981 TO SLP Pond
Wednesday

2495RFL

S - 51.4 cm x 42.3 cm

2051LFL

C -

Head - 8.5 cm
PL - 42.0 cm

11th marginal light - hole present
2 barbed on carapace -
Darkish colored carapace.

14 January 1981

Wednesday

C.I. Transfer to SLP Pondcaptive
Green

S 51.1 cm x 41 cm

PL - 42.3 cm

Head - 7.6 cm

"Gold" juvenile from 1972 FFS hatchling collection2099 RFL2054 LF

- slightly flaky plates to caudal space
 slight deformed tail, with barack
 on end.

Both
 1 chased by adult males - copulation
 attempted.

14 January 1981 Wednesday - Bellows setting
Wednesday

2 sections of net put out - somewhat parallel to site #1 jetty - ~ 6 PM
Relatively calm water -

Cold evening - dew on ground - calm, very little wind or waves.

15 JAN.

Thursday

At 10:30 AM, Alan saw a turtle for a short time - 150 feet out from end of jetty. Offshore a small airplane circled many times while boat or boats roared in circles - presumably pulling out net for skule. Also "row boat" in tow.

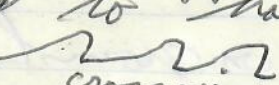
Drainage ditch water is brown & dirty, apparently from work on storm drain occurring by highway.

Nets out 12:30 PM.
Seawater 26°C

10.5
Hours

Agenda items:

- Scholarships procedures
- Membership forms
- Area Rep response
- Minutes
- Mae Hull site

1/15/81 Report from Lisa Becker & Steve Dallas
 Thursday and Kitty that "loggerhead" was
 seen about 1-2 miles off Kailua
 Bay, while returning from Maui
 in Rick Gregg's boat. (yesterday?)
 Reported to have (2) ridges (?) down
 back  - length ~ ~~24~~ 24-30"
 Brown-^{crossview} reddish brown in color.
 Dove very quickly upon approach

2PM Meeting with Shomura, Tanjo, Walter, Gene, John
 20 JANUARY 1981 ^{Dr. Suzuki} ^{Deck} ^{young} Hosi Nam 74 stockles of gilnet
 TUESDAY HOKUSEI MARU aboard

several 2.5mm → 233mm Mesh size
 (1" → 9") in same stockle (?)
 no?

50m = 1 stockle (start out =
 6-8m in depth shrink)

all = 2 1/2 miles of meshing (stretched)

Set at dusk - haul at daybreak
 6PM 6AM - up by 7:30AM
 completed

Fish for squid - automatic machines
 at night hand lines

(Trawl during daytime)

400 Stockles commercial vessels

Dr. Suzuki
 Start with full stockles
 right line

1/21/81

reasons -
 Dick Young ① jigging may not work here
 ② find out what they feed on

Stay outside 100F curve.

40°N

5 years old fishery
 rules & regs prohibit nearshore
 + jig machines tend to ~~drop~~ drop
 off layer squid.

121mm standard size for squid

~~set~~ 35 hooks per line; 2 lines
 per jig machine

30 kw light to attract squid to machine.

1/21/81 - Debriefed Gil Martin

Memo in file. 2

21 JAN 81 NHI Lecture at the Waikiki Aquarium ^{2/50} people
Wednesday

22 January Discussion with Jimmy Smith
Thursday indicated that he took a lot of
turtles during the late 1950's. -
Mokulea; and toward sunset beach.
Grab by hand using Scuba - pull
end of shell up to keep head down
and run in to coral reef.
tie line on and pull into boat.
He has photo and newspaper article.
Also, he helped bring leatherback to
the Waikiki Aquarium. (ed)
Turtles were taken to Fish
Market on Kaimukiki Street
across from Lope Bar. Price
paid was 10¢ lb live weight.
He once saw a woman slit
a turtle's throat and immediately
drink the blood - remedy for
asthma reportedly.

23 January 1981
Friday Steve Montgomery reported that
KHVH Newsradio 99 "Forbes Report"
told of swing toward America by many
Caribbean countries. Mentioned
economic problems - How US listing of green
as Endangered species caused collapse of
CAYMAN farms, (Canadian farming industry).

23 January 1981 Turtle found by Bob Ross
floating in Kaneohe Bay off Kahala.

Tumors.

S 61.4 x 47.8

C 64.4 x 58.1

Tried to telephone:

PL-48.4

Tern Island

HEAD - 9.5

26 January FWS Kawai

1981 828-1431

EGGS

P. cked up June 1980

Monday

+ ~~2~~ 3i

USFWS enforcement

- Confiscated as import.

(See plastic bag (with blue)
for possible source)

4.5 cm diameter 4.0

27 Jan 81 4.1 3.9

Tues. 3.9 3.9

4.0 4.0

4.1 4.2

4.1

4.2

3.9

4.0

4.0

3.9

4.0

48 eggs in total count

discarded

u

28 Jan D802 whole green from tiger
at midway - photos #1-4;

S - 38.4 x 32.3
C - 41.3 x 37.0

PL 30.3
HEAD 5.7
TAIL 7.1
WT. 17 lbs.

holes (eroded spots) on carapace scutes
neck slashed - bottom of throat
bird feathers

plus undersides of both flippers
+ great mass + depth into body cavity

LIVER; massive in size proportion
to turtle insides (guts) -
80% on right side of turtle
557.5 g weight both lobes

INTESTINES - lower down in tract - thin walled

FAT - much

probable male

3 - GI sample contents retained -
Barnacle shell pockets
in intestine - only algae seen
was in esophagus area

If tigers are truly scavengers, why haven't
plastic & glass bottles been found in stomach
pockets in the NHI?

28 Jan
1981

need to
collect.

Sample
saved

28 Jan

end
next
of com

also
see

28 January Bob Ross found in
1981 KANEHOE BAY on 23 January 1981, Found floating high off Kahalulu, TAIL - Rotted

Tumors on groin S-61.4 x 47.8

tail region C-64.4 x 58.1

around tag PL-48.4

HEAD-9.5

Need to collect. → ~25 large, 10 small Barnacles on carapace
PHOTOS taken - 2 dorsal - no flash.

Head - badly decomposed - "white" ^{NO} scales
left eye missing

WEIGHT: 51 lbs

(Sample saved) → Ozobranchus leech eggs all over plastron -
Transported to dump on Coconut Island and
dissected - 2 segments of stomach removed.
Remainder of turtle buried against edge of
concrete slab.
No tag or evidence of previous tags.

28 January Telephone call from
Keith Zeilinger
598 Ulukapu Street
Kailua, HI 96734

used from
west side of
Campbell Harbor -
Kaha Pt
3-4 days
seen 50

Concerning talk to Malacological Society
(Sept.-Nov. offered)

Also frequently
one of Honolulu

Need - agents names (see Peter Corally or Bruce Bickle)

DOCARE AGENTS & offices :

961-7291 Mr. Charles Supe
P.O. Box 936
Hilo, Hawaii - 96720

Mr. Robert Lindsey
P.O. Box 310
Captain Cook, Hawaii - 96704

244-4352 Mr. Roger Pai
P.O. Box 1006
Wailuku, Maui - 96793

245-4444

Lihue, Kauai

Bruce Bickle - 548-5918
~~DOCARE~~
1151 Punchbowl St 96813

30 January 1981 Bill Steeter mentioned that he had recently confiscated a ^{decomposing} green turtle shell on Maui. Turtle was found with line (or net?) wrapped around flippers. Shell will apparently be brought to me.

factory
fired?
#1200?

Lobster Plan -

Mr. Thomas B. Grooms, Executive Director
Center for Environmental Education
1925 K Street, NW
Washington, D.C. 20006

Daniel Goodman
Scripps Institution of Oceanography
La Jolla, Calif. 92093

Vladimir Kaczynski
Institute for Marine Studies
University of Washington
Seattle, WA 98105

30 January Met George LINGLE - who works
 at NOSC - has been turtles
 in Kaneohe Bay - near small boat
 channel, Sampson Channel, turtle back Is.
 KMCAS perimeter.
 Also, he recently saw 2-2.5' turtle
 butchered by dark complected local
 at HEENY pier - late in the
 afternoon.

2 Feb 1981
 Monday
 Telephoned:
Lance Kita 2nd grade
 45 729 ANOI RD 7yr old
 KANEHOE 96744
 literature sent for
 report on turtles

2 Feb 81
 Tuesday
 Visit with Rob Shollenbeyer
 concerning concrete removal
 project -
 need a fact sheet
 + appropriate photos for
 Press Release

- Need to enter in Gray data book -

HIROTA - Lilipona pier mortality

measured 2/2/81

not much fat-decomposition

(S) 68.4 x 56.8

Liver lobe bigger on Right side of body cavity

(C) 72.3 x 70.4

PL - 53.9

TAIL 16

WEIGHT - ~ 70+ lbs ^{measured on outside scale}

⊛ HEAD - will get later

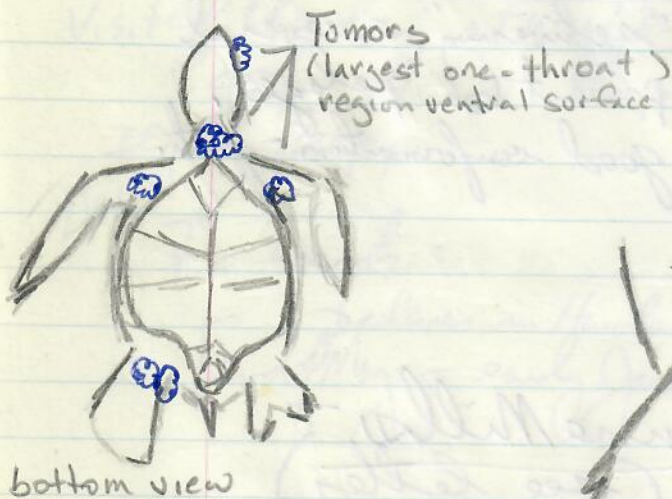
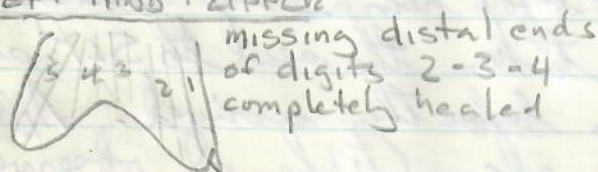
Photos taken

Barnacles sased ^{carapace = 5-L, 6 small RFL - 5 dorsal 5 small}
PL: 6-L, ~30 small LFL - 2 dorsal

Small number of skin barnacles on pelvic skin

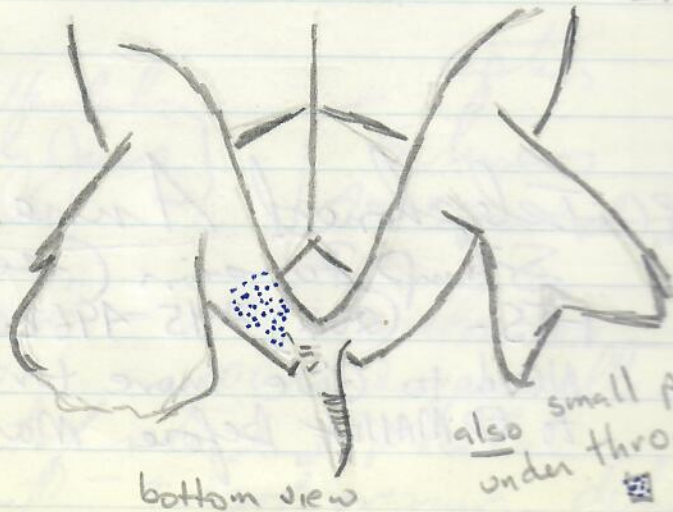
Pink coralline on carapace

LEFT HIND FLIPPER



Tumors (largest one - throat) region ventral surface

Ozobranchus? eggs on surface of skin of upper cavity under shell by the tail, also small patch on L. Hind skin



also small patch under throat tumor

4-19 FEBRUARY 1981

ALEIPATA, WESTERN SAMOA

21 February Saturday Visited SLP at ~ 2 PM. My two captive-reared turtles look fine. 4 adults out basking (1♂ 3♀), two other trying to crawl up ramp, but slippery and way is blocked by the 4 basking.

Small turtles look good - white girth marks are brilliant, except for a few that looked as if they were turning slightly gray in color. This morning a monk seal was found on the beach ~ 2 miles east of Waimea Bay. DLNR agents called Gil Martin, but before him and the Johnsons got there, they had taken the seal to SLP, and left it there again before they arrived. Apparently blind in one eye. When I observed the seal, it was "shivering" - several small barnacles were present on pelage. Animal appeared in good conformation - fat.

2/23/81 Telephoned Anne Mills -
Stamp Division (see letter)
FTS - (202) 245-4962

Need to give more turtle prints
to AD MAMEK before March 13th

called

Margie
Seed Grant
948-7031

TROPICAL RENTACAR

\$12.95 FI

#12 drop at Kona

Hawaiian
Airlines
537-5100

March 3rd

Hilo Hawaiian Hotel #22

March 4th

Kona Bay Hotel #26

3 March

FL 312

Hono 11:40 AM 12:53 PM

4 March FL 307

Kona 10:42 AM 11:15 PM

5 March

FL 308

6 AM

↓ Kona

8 March

FL ~~305~~ 557

3:20 PM

\$108

\$90 w/ card

P.O. NO. - 143058

\$70 excess baggage

Visited Chy Long

at WW distributors

531-0133

\$437

5,500 - 7,000

Dexter Press

overrun

2/26/81

7¢ each

delivers in Honolulu
[end of May - early June]

caption
[5 lines
40-50 words]

7 "shoe boxes" - 1000 per shoe box
100 cards per cello wrap

Proof - part of standard procedure -
Draft contract - + proof, overrun, delivery
caption

94 Kreuger - 988-2989 sent literature 820 M. I. Lani #505 Honolulu - 96813
Ever Painter - Lawyer - 531-2787

3/1/8 Dr. Reese telephoned to report a live Sunday turtle on the beach near his house. 49-035 Kam Hwy (Red tile mail box) Tel. 239-8047

Tumor Turtles
WASHING UP

Large TMR on each side of "his" neck - green fluid draining out. Turtle responded when you walk near it. Turtle moved by Reese & son to under their dock - covered w/ tarp.
3/2 - 8 AM - turtle no longer there. Reese reported seeing TMR dead turtle "washed" ashore near his home last year - need specifics. estimate January or February of 1980

ARTICLE ON:

3-8 MARCH 1981 & HILO-KONA MAP LECTURES KIHOLE

Kahala Hilton - new animal caretaker
- John Fairfax - UH nursing student
- Managers - Andrew Hepburn

Hyatt Hawaii

Gene TINKER

[4 pages - 5-6 photos
1500-1800 words

531-9096
P.O. BOX
88064
Honolulu 96815

818 S. King #1107
96813

John Ogden - fairy of greens

3/10/81 Bruce Carlson called - small
TUESDAY turtle turned in Swadlow - 3/8/81
caught in fisherman's net
- waist deep water off Kahala
see page 97

Lionel -

TUES.

3/10

tel

533-1327

Stopped at SLP to pick up post cards
from Jasmine. Chris Y. told me of Lionel's
friends catching 200 lb grouper off Blow Hole
that had turtle shell in stomach - photos taken

called house

Pam Williams Center ENV. Ed.
922-3111

MARCH 11, 1981 - Pulled shrimp traps off
 Wednesday, Kaena Pt on ER II - 74 6 +
 22 traps - 300-340 fathoms.
 2.0 - 4.0 kg per trap - shrimp : photos

3/11/81 mark DeCrosta same by today to

3/11/81 Telephone call from
Scott Henderson
 AHV-0-28KA
 2 Patch reefs
 (1 pork chop shaped) ~ size
 600-700 yards → 20 turtles
 20-24" length

Recommended by
 Ross Witham

Seattle Aquarium

Gary BALLEW

Pier 59
 waterfront, Port
 Seattle - 98101

12 MARCH 81
 Thursday

Telephoned
 Today

→ 130 lb loggerhead washed ashore
 confiscations now on display:

- 8" green

- 15-18" green

Measured - released at Bellow 3/12/81
at 5:30 PM

97

3328 LFL

S - 39.3 x 34.5

C - 42.5 x 39.5

3329 R

2nd

large
scale

PL - 33.5

HEAD - 6.0

TAIL - 6.6

Waikiki
Aquarium
see p95

WT - 20 lbs

Clean carapace & plastron - smooth
soft skin - no epizoaic
4th lateral right

indent - older injury

Old healing injury

9th ray right

4th B 14. left

(#18) 1 dorsal photo w/ flash

98 Turtle Grazing reference - abstract - Am. Zoo. Dec (?)
 as Oper Bruce Carlson xeroxed got

improving
 letter
 sent
 3/16/81
 948-8350
 946-7206
 from Mark
 Delcroix

Argus Smales, Editor
Pacific Islands Monthly
 76 Clarence Street
 Sydney 2000 AUSTRALIA

Shark no.	Shubs	Loc	Date	Notes
① 145	7	FFS	March 1979	} - ?
② 146	8	"	"	
③ 147	9	"	"	
④ 258 X	4	FFS	19 Oct 79	} 1 hatchling w/o head
⑤ 271 X	17	FFS	" " 42	
⑥ 1991 X	4	Midway	April 80	} 36-40 cm Carapace Scutes of 2 turtles + Carapace Scutes; SKIN
⑦ 1080 X		FFS	30 Oct 80	
⑧ D802 X		Midway	10 Dec 80	} whole turtle 5-38cm
⑨ ?		Midway?	Dec 80	

3/11 Kam reports that friends of his
 caught 3 turtles off Shrine County
 Home - 2 had blue & orange
tops - one in shell, one in hind
 flippers fish-lure streamer?

3/14 Sat. Called Richard Keller about 36716
 Grouper - contained 3 lobsters and fish
 parts.
 Actually killed with a power head - in
 MARCH spite of Hawaii Fishing News saying it was sealed.

3/17/81 Noreen ^{B.G.B.} - Lectures week of May 11th ?
935-3830

Howard Takata
Marine Advisory Program
R O C
2349 Kalamo
HILO 96720

B.B. 537-6761

55 South Judd St.
Apt 703
Honolulu 96817

Steve: 948-6745
Montgomery 941-4974

Need List 1.) Munroe 2.) R.G. 3.) Section 7's 4.) Term Report
5.) Fish Plan 6.) two letters 7.) Symposium 8.) Strip
9.) Refuge violation 10.) Albacore Fishery (Invitations) 11. Economic indic. 3/29/81

Telephone call from

3/18/81
Wednesday

Gary - Seattle Aquarium

Another foggerhead (dead)
35lbs washed up.

3/20/81 (206) 625-4358
Friday

MARK DE CROSTA - SEMINAR

xerox for shark file

18 MARCH
Wednesday

Age determination, growth & diet of Hawaiian sharks

NOV 78 - went to work for Leighton Taylor - TROPIC STUDY
years work 2 1/2 Mostly at FFS - more lately at Midway
Real difference in abundance of species between

Show Mark FINCH shark photos.

- Tight Hooked - by tail photo (borrow dupes from Mark?)
- can in mouth

Table w/ no of tigers, etc. at Leeward locations

Tigers	Nihoa	5 (3)
	Necker	3 (2)
	FFS	15 (3)
	arao	4 (3)
	midway	7 (6)
	Total	34 (27)

(x) = no. stomachs w/ food

Assume: Embryonic growth same as post-natal sharks
∴ extrapolated embryonic growth (a good estimate)

INJECT Tetracycline to confirm annual nature of rings

Ricker (1958) - good methods paper for Von Bertalanffy

Mark
De Crosta

90 occurrence by no. of shaks

Birds - 74.9%

Greens 33.3%

shrub ~~birds~~ - 7.49%

Sp. lobster - 25.9%

Tetradon forms 14.8%

Slippers - 18.5%

Chthamops - 22.2%

deep water - 3.8% (?)

"only the females ^{finger} get very large"
♀ > ♂Request references
from MARK11/11/81
MINNES3/18/81 - Called Kilauea - Kawai FWS
Thursday Tel. 828-1431 from HMB
talked Noreen - passed message to Robert Tern Is.

Sealife Park turtles & have been following

19 MARCH 1981
Thursday

Tank

length

Photos & notes

(B) 504 (no graft)

S-16.1 x 13.9

#29 ventral on cement
#31 w/caliper

C-17.6 x 15.8

(B) 648 (no graft)

S-16.3 x 13.3

C-17.9 x 15.4

#30 ventral w/caliper on cement

(B) 643 (graft "indent" on carapace no blk. graft on belly)

S-17.3 x 14.0

(need close-up of graft)
#37 - #38 dorsal
C-18.5 x 16.0

(B) 480 (graft getting gray) (carapace platinum black)

S-17.0 x 14.0

C-18.5 x 16.2

#32 ventral #34 dorsal
#33 ventral

(A) 618

S-16.4 x 14.0

C-17.9 x 15.6

#35 ventral #36 dorsal

(A) not photoed on 12/30/80 316

none taken

" 326

none taken

Inspection of all turtles in drain tanks indicated est 25% have noticeable grafts - ones mostly noticeable are on rear. Many have gray imperfections. A reddish one in tank B is tiny guy.

contact local
 back at 9:30 PM
 Hawaiian native legal rights
 531-9052
 521-3491
 leaving for D.C. - see Albertini
 may

Feb. 1981

- ~~Bill~~
- Boyce Brown
- Cooper Brown
- Jack Schweigert

Bill Hunt
 Knows Sherwood

Do not use Rib Barmt of Maui

Mike Sherwood telephone call from home (415) 457-6419

"Demand letter" on legal standing to Navy / and FWS

4/1/81 called Linda Jones

Scott Anderson report to Region - Gary Smith

xerox for called file

546-5111
4003

called 3/31/81

3/23/81 Linda Jones FTS 399-7949

Monday - Two reports exist

- 1) 1977 NMFS
- 2) Linda's report one - relates to activities since negotiations

TWO Types of Salmon gill net fisheries exist -

- ① LAND BASED - go back to Japan every few days - not as well regulated

- smaller gill net size
- shorter nets (~ 15 km), but more boats, \therefore about the same fishing effort as ② below

② Mother Ship w/ catcher boats
 observers have mostly been on mother ships - fish 46° N $171-175^{\circ}$ E
 straight up. 172 vessels -
 nets 15-16 km long, 6 m deep,
 mesh sizes 114 mm, 121 mm & 130 mm.
 (Equal to ~ 2500 km gill net out
 each night).

No turtles reported or seen by
 observers.

106 24 March 1981

TUESDAY

KANEONE BAY

Caught at "Porkshop"
reef in Kaneone Bay
- 1 AM -
NIGHT DIVE SCUBA -
STAYED AT COCONUT IS.

3332 LFL S - 55.0 x 41.7 (R 6th indent slightly)

3333 R^{2nd} scale C 58.0 x 51.5

PL 43.6
HEAD - 8.5
TAIL - 11.7 cm

- Skin Bands

- 1 band on plastron
5" " carapace > off

531bs

foremargins of front flippers has
Stephanolepis - removed

2 dorsal photos #1-2
photos #3-4, small TMR Right eye

Euchemna seems abundant on top
of Porkshop Reef - appears crossed
(but could be from wave action).
Also lots of Turbinaria on reef top.

24 MARCH

107

KANEHOE
BAY

3334 LFL S - 44.2 cm x 35.6 cm

3335 R^{2nd} _{seal} C - 46.9 cm x 42.2

PL - 35.8 cm

HEAD - 7.3 cm

TAIL - 7.5 cm

241bs

7 large bars on carapace)

- old ~~old~~ flipper injury to LFL - healed slightly distorted

Many small Chelipini on skin; same for to 3333 + Platyepas

3 Stephrolepas in foremargin of front flippers.
STOMACH sample pumped.

Hawaii's Vanishing Flora - by Bert Kimura & Kenneth Nagata 125 photos; 88 pp.
Hawaiian Forest Plants - Mark David Meilun; 125 photos - no pagination

Hawaiian Reefs & Tidepools - ANN Fielding; 113 photos, 103 pages

- 118 photos

"Seaweeds of Hawaii" 8 3/8 x 5 1/2
116 pp.

ORIENTAL
PUBLISHING Co.

COASTAL SEWEEDS OF THE TROPICAL PACIFIC - Whistler 80 photos; 83 pages

Peter Rappa - 948-8191

MARINE HICKLE

Env. Policy Dir of NAS
645 Penn. Ave

Pesticides topic ~~11-12th~~
will call
on weekend of 11-12th

Speaker
10 April 1981

— Environmental Council

skip?

Jerry Ray - "Archer" ^{vessel}

(Squid fishing
observations)

3/27/81

Friday

S.L.P. - 8 AM - noted basking tracks
on artificial beach; Manink in lagoon
grazing on calcareous algae; Male
hawk in Hawaiian reef tank has
curved, elongated front claws;
Captive rearing greens are scheduled
for retagging today; Many neck lesions
present; Grafts in center of first
lateral is becoming decidedly grayer
in many/most turtles; Situation
seems better for turtles with
graft on seam of laterals.
"Graying" seems to have accelerated
in recent days. Also note that
graft is in better shape in smaller
turtles because more growth has

occurred in larger turtles.

3/27/81 Bruce Carlson indicated that 2 captives
 FRIDAY regred hawks, died after I returned
them - one shortly thereafter - one 1 month later.
 called Barry Brady - Kawai call Rick Coleman
 also JERRY LUDWIG

April 6 ^{Monday} Hawaiian Air → Kawai
 depart 10 AM FL 141
 returns 12:04 PM FL 446 April 10th Friday

Tropical rent-a-car \$12.95

3/30/81 Jack Edmondson called about
 Monday Section 7 FTS-235-2760

3/30 Called Steven Brown ^{J. BADA} from
 home at 714-224-6570

3/30 ~~eyes of~~ 7 specimens sent to Lajolla by
 Air Special Delivery
 Jff Bada

<u>YEAR</u>	<u>COUNTRY</u>	<u>Scott No.</u>	<u>SPECIES</u>
1.)	MALAYSIA	# 179	leatherback
2.)	JAPAN	1204	stylized - URASHI TARO
3.) 1966	INDONESIA	B206	hawksbill - ^{listed as} Chelonia mydas
4.)	INDONESIA	1066	leatherback
5.) 1966	RYUKYU	137	hawksbill
6.)	SARAWAK	204	stylized
7.)	NEW HEBRIDES-BR	185	green turtle
8.)	NEW HEBRIDES-FR	204	green turtle
9.)	W. SAMOA	378A	green turtle
10.)	W. SAMOA	471	hawksbill
11.)	FIJI	164	stylized
12.-14.)	TONGA	446, C351, C0152	stylized
15.)	FR. POLYNESIA	289	stylized green turtle
16.)	NEW CALEDONIA	437	stylized
17.)	NEW CALEDONIA	452	(protection of turtles) stylized
18.)	GILBERT IS.	321-4	greenturtle
19.)	BRIT. SOLOMON IS.	208-209	stylized (coat of arms)

<u>YEAR</u>	<u>COUNTRY</u>	<u>Scott/No</u>	<u>SPECIES</u>
20.) 1980	PITCAIRN IS.	# 194 - 197	stylized -handicraft
21.)	TUVALU		greenturtle
22.)	TUVALU		coinage leatherback (niuakita)
	TONGA		watermark

Conservation/education; enhance public awareness; Source
of revenue
Sea Turtles on Postage stamps of the Pacific
Sea Turtles

Gene Nitta
Big IS - Potential Harbor sites ACE
Lelewi Pt
King's Landy
KAPOTTO
KALAPANA

Need copy
APRIL

→ Vic Fougere - latest Hawaii
Fishing News tiger shark article
14' caught north of Pearl Harbor -
had ~40% ^{whole} turtle in stomach -
photos taken by person on boat see
Chuck Johnson. Turtle had TMR
on neck. ^{described in article}

* note
to
Cliff
Eisenhardt

3/31 - 4/1 → nighttime in Kaneohe Bay - stayed at HMB -
motor prop quit - swam to island.

4/1/81 Need to send small tags to
wed. * Harry Kami - telephoned
today about 19cm green turtle
reared in captivity - turned in
for release.

from Chris
4/2/81
Thursday
Since 9AM - thru 2PM ^{waves} chasing - splashing
(SLP - 2071 ♀ hid flippers)
folded behind. ^{swimming}

Several males after a green on neck
Male loggerhead chasing ^{1-ft. green} female loggerhead - ^{BITES} on neck

4/3 PRIDDY stopped there at 7:15 AM. - ♂ with blue tag
straight out on flipper reported major aggression
♀ floating high - male biting face.

4/2/81
4/3/81
4/3/81
4/3/81

OL
752
SI 57g

Growth & Regulation of Animal Populations 115
by Lawrence B. Slobodkin

4/2/81 Retired ^{marine} MC ^{Coast} Officer called and suggested I
Thursday contact Public Relations at Camp Smith for assistance
in concrete clean-up.

4/3/81 ^{w/ARCHIE TO PNG} Called Wayne King (904) 392-1721 ^{from HMB}
Friday Proposed my travel to
MAY 18-23 Philippines
- CORAL REEF MEETING - Spanish; high level;
- coming through Honolulu

(BSIP)

Coat of Arms -
(on postage stamp)
① hull - W. Solomons
② Shield/spears - Ngalata
③ Bird - center of Eastern
④ ? - center of Eastern

4/3/81 Holmes Matao Saewe ^{new Georgia} Salomon IS.
Friday introduced to me by Helfrich contract to USP

[941-6318] → LAWNIN CRAWFORD
500 UN. AVE Food Processing - W. SAMOA

Talked
to Jim
McVey

NNN 0-99
NNN 0-99

4/3 # Tags sent
Friday 569-573 Harry Kame (intermediate)
w/plier

4/3/81
Friday

Sent to McVey
8001 - 8100
(1553⁺ Monel sample)

4/4/81 BJORNDAAL (904) 375-0082
^{NO ANSWER}

SATURDAY charged to NMFS
MEYLAN - Home (904) 375-8937
called from home - discussed Philippines mission

4/5/81 Visited Kahala Hilton - saw
Sunday 4 ♀ — 3 ♂ all adult greens
active with some scabs - possibly
indicative of copulation.
- No interpretive sign - need to
- Boy pushed turtle w/ foot
- Too many for display purposes
- no beach, no lasking ramp except rocks

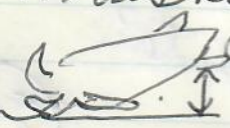
4/5/81 called - charged to HMB ^{about Philippines' trip}
from Home
Archie Carr - (904) 466-3231

SLP 4/5/81

771CFL; 471RFL C- 20.4 cm x 18.4 3729 RFL
TEST TAGGING of TWO some blood 2-3rd scale -
Greens using SIZE 681 Through pod ventral

741CFL; 341RFL C- 21.0 x 19.2 cm New
11th mang left - 2 plugs 3730 RFL
Black ventral ○ ○ - Gray-bk dorsal thru 2nd scale

4/5/81 SCP-continued

Sunday 5PM - 3 females; 1 male seen basking.
 2071 among the females.
 Green ^{Shaw's} Jim reef tank resting 

4/5/81 Bruce Carter - "Let's Go Fishing"
 Sunday HILO CASTING CLUB
 Hawaii Volcanoes National Park

program
 Review all
 past newspaper
 columns?

Steve's mentioned cook at Maunaloa
Beach sets lines for tiger sharks
 (Pierre Bowman?). Has turtle parts.
 Loose gear. Use of #truffles in
 sharks as index of turtle abundance.

6-10 APRIL 1981
 Mon - Friday

KAUAI

4/11/81 George Hamamura
 Saturday

621-6876

Date -

March 20, 1981

"Caught"

EXACT Location -

just post -
 CHUN'S Reef

caught last year

"Caught alot of turtles"

one - 200 lbs

one - smaller

hooked in mouth - brought in close
 and line cut.

sent need to send: ① Padded envelope
 ② booklet
 ③ MAP

Turtles Rescued 18" shell

4/12
date?

Steve Kausez
IN fishing boat
Cargo net (Pan Am jet)

Chris
Hawaii NITTA
on Board

head and one tangled in
front right flipper
cut loose
2 miles off
Kopokea
left rear flipper
stub - healed

Aggregation

Hawaiian Tie

clean - no
burns
edges jagged

(PL Hono 21st Depart 8:35 Arrive 9:02
246
E 445 Maui 25th 4:48 PM 8:15)

Roberts
12.99

4/14/81 Reg Gooding's negative of
TUESDAY North Is., P&H
taken from 1000 ft. date - 10 MARCH
shows 19 turtles land 1979
basking, 2, 3 in the water
close to shore

4/14
talked
with
GENE
NITTA

call

SibN companies - Reflectant -

White-black lettering 1 1/2" 15-20 words
18" x 24" salt spray resistant?

* ~~FL/UM~~
Bottle

Need Brongers #19

Center of Scute

TAG 736 LFL	1 st	cat Right -	4 sec.
SPM 336 RFL	2 nd	"	8 sec.
	3 rd	"	12
	4 th	"	16 sec.

line drawing of a green
259-7933

4/14/81

TUESDAY SEA LIFE PARK

TRIAL

<u>Liquid Nitrogen</u>	1 st	left	20 sec
<u>freeze Brand</u>	2 nd	"	24 sec
<u>at Sea Life Park</u>	3 rd	"	28
<u>w/ Bill Gilmartin</u>	4 th	"	32

963 LFL Distal center - same pattern
663 RFL of timing

956 LFL Seams - " "
256 shell

966 LFL Seams - distal " "
666 RFL

4
4
6
8
9

\$35 $9/3 - 12/31 = \$26.35$ #7207

120 wednesday
4/15/81
Wednesday

E.T.
CAPTIVES

This date - Kim Wright/Bartee
investigating Shellwood
catalog sales

2496 LFL S - 49.2 x 39.7
2052 RFL C - 52.1 x 46.0
PL - 40.6

weight 35 lbs.

Liquid Nitrogen
Freeze Branding
w/ copper rod
~ 5mm dia

HEAD - 7.9
TAIL - 10.0
1st Lat Right 10sec ; 2nd 20sec
3rd 30sec ; 4th 40sec
1st Lat left 50sec 2nd 60sec
3rd 70sec 4th 80sec

4th phalanges middle scale - right front dorsal - 10sec
" " " " " " " " - 20sec
applied yellow - (O) Allflex - on left

2498 RFL ^{expanded} Same pattern, 1st right = 10sec, thereafter
2053 LFL distal seam of each lateral - except on ^{5sec increase}
marginal * 5sec L. nail
10sec Rt. nail
liq. nitrogen

(S) - 62.8 x 51.1
(C) 66.5 x 59.4
PL 51.8
HEAD 9.5
TAIL 17.5

WEIGHT 71 lbs

THREE TAGS present
capture
Himb

S 61.2 x 53.0 Scrambled -
Some plates still peeling

Reverse attempted cap. notes
16 APRIL 81 3PM visit with Andrew Hepburn of Kabala
Hilton - concerning cooperative efforts with turtles.

4/15 ^{Lives at} Linda - Mobuleia - sees a turtle in front of her house regularly
NMFS lab student
16 APRIL - DIABOG - Chris called about photos

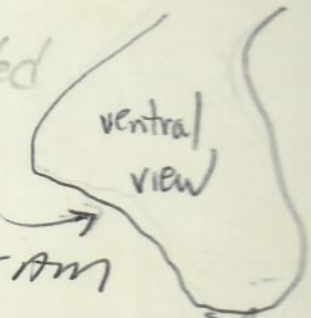
16 APRIL 1981 Arrived at Bellows ~ 5:45 PM
Thursday Man, woman and daughter fishing from jetty #1.
other daughter named April - boyfriend Dexter (friend of Alana) previously reported fishing here to "play" with turtles. Reel-line not strong enough to land them. Woman's mother indicated that a few hours ago today she caught a turtle - got up close and broke "feet" of turtle on line is distinctive - steady pull, no "give" or movement like a fish. 2 NETS in water left side parallel to shore at about 6:30 PM. Turtle caught shortly thereafter - 3467 - very light in color. SEAWATER TEMP: ~ 26.3°C

2335 RF close to edge S - 54.2 x 42.8 wt. - 48 lbs
2336 FL photo inside

3467 IF pos. tootight C - 57.4 x 52.5
PL - 44.2 HEAD - 8.1 TAIL - 11.5

EP/gz

left hind healed skin algae & barns



Nets out of water at ~ 8:45 AM
earlier a single turtle was seen outside net, appeared to shy and swim out.

~ 4-5-6' shark seen briefly 4/17 in shallow sandy turbid water close to jetty on left side.

