

BALAZS
1979

BALAZS - DAILY LOG 1/23/79 - 12/28/79

BALAZS

SLP

p. 38
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FFS Sand Analysis
by Steve Smith - p 89

carapace & plastron weights - p 97

4/21/79 . . . FFS ANALYSIS
6/8/79 . . . Bud Doty
KAMEHAME nesting
p 55 . . . COLORATION NOTES
p 80 . . . Bone sections sent to
Tim Smith
11/23/79 . . . SLP MEASUREMENTS



COMPOSITION BOOK

9¾ IN. x 7½ IN. (24.8 cm x 19 cm)

AVAILABLE AS:

No. 09-9130 (1130) 60 SHEETS COLLEGE RULED & MARGIN
No. 09-9132 (1130-P) 60 SHEETS COLLEGE RULED & MARGIN
No. 09-9134 (1143-X) 100 SHEETS COLLEGE RULED & MARGIN
No. 09-9132 (1130-P) NUMBERED PAGES

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Kum - Kaneohe Bay p. 95

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page]

1/23/79
TUESDAY
Call from Dallas Grody - Wants to go to ~~Kure~~ end of Feb - send him memo asking to collect.

1/23/79
Call from Maragos - he recently returned from Palmyra - "Classified" project for area. He walked most all beaches - didn't think habitat was suitable for nesting (but missed one island that may be best)

1/23
Call from Phil Olsen - he was copilot on PBY to Palmyra - Fanning
person to person call - 8:20 AM from Redondo Beach - didn't call back.

1/24
WED-
NESDAY
Telephone call from Judy Lent, TRW, a subcontractor of Global Marine - preparing a preliminary environmental assessment for OTEC - will be sending info - site is 19°59'N, 156°07'W

1/25
Thurs.
1/25
John Ford called we ^{my info} ACEngineers

I called A. Howard about beach sand project 1-928-8156. Concern expressed about diverting river bed into area where turtles sleep. Also about future development.

1/25
Thurs

1/26
Friday

1/27

1/27

1/29

1/29

1/29

1/30

- 1/25/79
Thurs. Visited Jean King at State Capital -
presented photo - (need Xerox of letter) got
1/26 - telephoned Witherwax - sent material
- 1/26/79
Friday Visit from Marilyn Lee SLP concerning
education - docent program.
- 1/27 Telephoned Helbig
Hawaiian Services
- 1/27 - Dinner at Johnson's apartment -
informed that 3 FWS people will
go to Laysan March 12, boy teacher
for study until August -
Posters were up on campus.
- 1/29 Call from Mosovsky
- 1/29 Talked to Jim Stark - Dave Loran
- 1/29 Bob Brick visited - lots of write to
him
Mortality recently at
Galveston
- 1/30 - 2/1/79 short expedition to:
Kure Atoll USCG

Dallas Grady
Box 348

Kilauea, Kawai 96754

828-1426

2-5-79 → Call from Wayne King →
 FRIDAY (5 days) (4 hours morning -
 4 afternoons)

40-50
 papers
 possible

Give a paper that reviews
 situation in (Australia)
 (region areas)

Model Management Program

A. Carr; Erbeheld; Pritchard;

week of Feb 12th →

next week to NZS Annual
 meeting - will hold a mini-meeting.

[Sunday 25 Nov. - Friday 30 Nov. 1979]

→ Flights booked

~~Françoise~~ Arche - Wayne - Pritchard -

World
 Conference

* Doug Davis has Leeward Is.
Algae collection, as perham

J. Petersen called need to draft proposal letter to Director of B.P. Museum
Call FRANK RADOVSKY - ASK FOR ADVISE.

2/7/79 Giezentanner field party chief - Alaska
1. Eric Knudsen - seats - Alaska
12 MARCH - AUGUST 1979 → LAYSAN IS.

2/6/79 546-5608
Presentation to Higa at Dillingham
on NHT calendar idea

2/8/79 ^{call from -} John Ford - Kekeolo Harbor - Kawai
3 miles west of Waimea;
just before Kekaha where
road/beach is eroding.

"source of terigenous"
materials

Plans ^{underway} to dredge channel ~~at~~ harbor

2/9/79 Call to Arn Heggens and "Shi" (will leave 28 March 1979)
- 1 July 1979 close LORAN
- 10 July 1979 Arn out

FWS will now LET them leave lots of things - AMANDA AIR - NAWAO Chieftan
Maui

Harry lost contract:

"CEREMONIES?" C. GABLE → NO - UNLESS ARN PLANS IT.

① ^{small} turtles are on banks, wouldn't they get caught in lobster traps?
 ② If small turtles are in atolls, they may get caught in

CRAG MACDONALD'S TRAPS STUDY.

Both of the above assume that small turtles would be attracted to TRAPS AND BE CAUGHT BY THEM.

2/12/79

MONDAY

Call from King Wright concerning request for information from U.S.A. Turtle eggs were seized recently - reported they had been taken on Sat AM from a beach in El Salvador. LA Zoo is interested in incubating them.

They may contact me.

2/13/79

Site team visit - Seabrant - Talked to Gates and LAMAR at lunch - ^{Heoff} _{- Helfrich}

2/14/79

D. Brady -

Halepua ^{islet} - "VW cave where turtles go up into to lay their eggs" as per old man from Nihoa.

Asked specifically about legends of Nihoa with turtles or seals -

"NONE"
 "Summer ^{time} - see more turtles" -
 is the opinion

catfish 15 lbs in Kawai > seen by Grody in rivers on Kawai
 Carp - 12-14 lbs

2/14 - John Byrne - FWS - visited lab about Pacific Islands Bibliography -

From Leighton - This man was in USCG at the time that move was made from East Is. to Terns

2/14/79

WRITE

Dr. George W. Barlow
Department of Zoology sent
University of California
Berkeley, CA 94720

- Elbert - Lukui are in process of revising the Hawaiian Dictionary (Head in TV news story)

Amey Aldridge
Alan Everson
NMFS foreign observers - visited lab w/ George Avery

FRIDAY
16 FEBRUARY

TO KAUAI - EASY RIDER - KAULA
depart 2:45 PM HA - arrive, hiked to town -
Woolworths, McDonalds; ~ 6:45 PM cab to
Port Allen - Eleek; ER arrive ~ 8:45 PM.

Hawaiian
Turtle Brochure

Needs → R. ROE LETTER to Shomwea & GATES
ASK RICE ABOUT 1) Elephant Seal Reports
2) Barnacles on other seals
Hawaiian Moon Calendar note to A. Johnson 1909-1984
75th Refuge Anniversary - STAMPS
yes but no specifics

17 FEB 79
SATURDAY

Depart ~ 5:30 AM for Northern tip of Nihoa,
Counted Humpback whales, at Southern tip
headed for Kaula; Photos of Kaula;
Saw 2 and 1 near bomb tip end of island;
Seem to be few birds present; Noted school
of spinner porpoise; Also 3-4 densebeaked

— Replaced Captain Crockett

Captain L. To Profflet
U.S. Navy
Commander Third Fleet
Pearl Harbor, Hawaii 96860

17 February
79
Saturday

whales; Heavy rains started -
photos of waterfalls coming off
of island; note possible effects on
bird eggs(?) Saw three fishing
boats in area - one was the Koko.

→ Need to declare emergency marine
Critical Habitat, such as has been
done for Cape Canaveral ship channel.
Waiting until March could result
in the killing of Endangered Species.
Saw Hammerhead shark on Kaula Bank.
Spent about 1/2 - 2 hours in area -
ate lunch while drifting west to island.
Total of 12 Humpback whales seen
associated with Kaula. NO WARNING
SIGN
Departed for Southern Nihoa - proceeding
to Lehua at about sunset - photos.
Proceeded back across channel to Port
Allen - arrive - 8:30 PM.

427
TOTAL
- 38 Kaula
- 33 at Nihoa

18 February
Sunday

Depart to circumnavigate Kauai
counterclockwise - 7:15 AM. Along
Na Pali coast noted and photographed
Kalapau Beach; Honopu (2 coves);
Nualolo; Miloli (House). BACK TO

19 FEB - NAWILIWILI - Depart for Honolulu 2:30 AM - ARRIVE 1 PM.

18 FEBRUARY SUNDAY John Naughton informed me that a person attending Western Pacific Fishery Council on Kawai several months ago had stopped at dump right along highway (highway side of Kilauea Point) and noted a butchered out Ridley - seemed positive. Kriker was notified - ~~Note~~ note that previous Cahu Ridley records may also have been during these months - along same side of island(?).

Report from Dale Rice:

During MAY 1958 he was with Rick Warner on Laysan Island; found two turtles basking - large one had "tag" on shell (Brock's?) - released; smaller one was eaten.

Notes from Civilian personnel ^(some for 10 years) PMRF at Port Allen: Lots of ship activity off of Barking Sands; Rockets fired from planes; Also targets fired from land for rockets on ships; At Port Allen, two torpedo retriever boats; 4-5 radio controlled target boats - \$100,000 each; one destroyed from live upset direct hits, one every three months. Ships from foreign countries use area - 10 years ago more humpbacks were seen than now - few seen now.

- Green - threatened
 - Hawksbill - endangered
- } ESA 1973 -
inshore waters
- if present - Impact of bombing misses
- Previous report on Kahoolawe - site name
Swedberg not previously seeing turtles.
 - Forthcoming trip to study seabirds,
humpback whales, and cetaceans.
 - self-sufficient
 - Uwe explosions
 - pollutants

IWC

MMC

Invading fishermen have state
or Federal loans?

House Finch - on Kaula

* Young, R.E. 1978. The vertical distribution and photosensitive vesicles of pelagic cephalopods from Hawaiian waters. In Press.

Tester⁴⁷ (+36 pages tables)

Stimson, J.F. 1937. Tuamotuan Legends. Bishop Museum Bulletin 148

Roper, C.F.E. and R.E. Young 1975. Vertical distribution of pelagic cephalopods, Smithsonian. Cont. Zool. 209:1-15.

Rice, D.W. 1960. Distribution of the bottlenose dolphin in the Seaward Hawaiian Islands. Journal of Mammalogy, 41:407-408

Kirtley, B.F. 1971. A Motif-index of traditional Polynesian Narratives. UH Press 486pp.

Galbreath, E.C. 1963. Three beaked whales stranded on the Midway Islands. Journal of Mammalogy 44:422-23.

X*
examined
3/2/79

Cott, J.H. and E. Stasack 1970. Hawaiian
Petroglyphs. Bishop Museum
Press, Spec. Publications 60.

X*
examined
3/2/79

Dixon, R.B. 1916. The mythology of all races.
(volume 9) in L.B. Gray - Oceanic,
M. Jones, Boston 364pp.

X*

Clarke, M.R. 1966. A review of the
systematics and ecology of
oceanic squids. p91-360 in
volume 4 of F.S. Russell (ed)
Advances in marine biology;
Academic Press, N.Y.

X*
GOT
C55
313

Jones, E.C. 1971. Isistius brasiliensis
a squaloid shark, the probable
cause of crater wounds on
fishes and cetaceans.
Fish. Bulletin 69, 4:791-798.
"hemispheroid plug"

send (Reduce xerox)
 Bibliography ^{sent} Naughton; state
 Archaeologist ^{sent} Rob Hammond; D. Rice;

If action is not taken by conservationists
 against Navy on kaula issue state will
 use this point to defend usage of
 Leeward Islands by fishermen.

— Naughton, Berger, et al. saw Pucco and
 'land' "furch" on Kaula

14
2/1/79 - Ron of Easy Riders saw turtles while surfing at EUKAI BEACH

2/20/79 → Ocean Research Analysis ^{call from} O.R.A. Company - Ron Nolan 946-0540

- Naftel
- Taylor

S/A I - mainland environments consulting company

[Wailana - 4th floor]

2/20/79 talked to Rob Shallenberger

2/21/79 Mark Wesler called but I was not in.

2/23/79 → Called Wayne King from home
FRIDAY (212) - 220-5111

- will send \$1500.00 check

- talked of letters sent by MROS

- ~~check~~ should write to Mull - cross check soon

2/24/79

SATURDAY

TO Molokai in ER
w/ Shallenberger and daughter

went ashore at white sand beach to the west of Long -
Fiberglass boat on rock - tipped.

Mud layers under sand -

also rotted kiawe roots -

Fots of muddy turbid water in shore -

Footprints on beach -

Ranch sign - keep out - NO Trespassing.

WRITE THIS
WOOTER GRAY
Book + Kawai -
Kaula Trail

2/24/79 - Call from Bilderbach - report that
 Saturday he was coming back from Penguin
 Bank at ^(close together) 5:30 PM this date -
 saw 2 large turtles
 (green) at surface about 1 mile
 off of Diamond Head - over deep
 water - one had scum/algae(?)
 on back - both dove quickly
 upon approach of boat.

2/24/79 Report from A. Kam that a hotel is
 being built in Waikiki with a 3 story
 steel tank
 2/28/79 ^{wed} → Called Reynard Division of Parks - about Na Pali
 P.O. for Air fare

548-7455

8/24/79

Project Coord.

Bill GORST-
Na Pali

Need list for Kauai Trip! -

- CANVAS
- Tent (?)
- Thermal blanket
- Boots (extra socks), gloves
- Food - water (?)
- ^(or BLANKETS) sleeping bag - air mattress
- Sample bottle - formalin
- Binoculars
- Flash lights - ^{for} Night BASKERS or seals hauled out
- Hawaii Flag
- KNIFE

3/1/79 Talked to Tom Knight -
 from FFS - leaving on
 plane to go back tomorrow -
 been vacationing on the
 Big Island.

3/1/79 Cyhlinton returned from FFS -
 Saw 24 baskers on Trip -
 Man-o-war came in by Tern Island -
 Saw 2 juveniles feeding near tide gauge.
 Read two tag numbers;
 2 dead seals on Trig, 1 on W-S.

3/2/79 Telephone call from ^{96743 Kamaula} Bryan Wyatt,
 purchasing agent at Mauna Kea Beach
 Hotel - been there 6-7 years;
 Today personnel on gatavran found
 20" shark with net wrapped on it -
 shark seen in area; brought into
 captivity at Hotel - can't dive - floats
 very high in posterior - splashes to
 breathe; put rocks in container
 to rest head on;

TEL. 882-7033 ; Mauna Kea Beach - Kamaula
 He used to live in Caribbean on BVI, Virgin
 Gordon; has had lots of contact with turtles;
 interesting experience rescuing Leatherback

need to
 call him
 FRIDAY
 3/19/79

5 March still ad calm sea in Kaneohe Bay -
 79 Water Temperature by Turtle Cages
 Monday Observations - Turtles were last
 fed on Saturday - at 0930 this
 morning Frishies (dog food) was put
 in cages - several turtles
 immediately started to feed. Lots
 of algae present on dock floats -
 mostly (introduced as per Doty)
 all turtles fed actively on algae
 put in cages - also present was "long
 stringy" and a Caulerpa racemosa?

9 March 79 Talked to ^{call Him} Sgt. Thompson
 Friday TASS/22 655-1855
 Careport 2136'N 158°07' (38 turtle 2 March 1979)

9 March 79 Telephone call from S. Elbert - name
Moku MANA MANA - name
 was obtained from Mrs. Pukui - don't
know where it came from - Pele at
 Hiiaka legend mention M. PA. (X)
 - Hoobamamama means - worship
 idols.

9 March 79
FRIDAY

1- 882-7033 - Bryan Wyatt - Maui Kea
Beach Hotel, Big Island

Turtle doing fine -
feeding lettuce all fish -
now diving - will be released
today - photo to be taken.

Should call him again when I
return

10 March 79

PL - 27 1/2"

Male -

TAIL - 18"

- penis hanging out.

CW^{idth} - 33 3/4

CL^{length} - 36 1/4

carapace

skin barocles - red skin alga

→ reported to SLP at ~ 4:30 AM
as being beached at new
Wainanalo - Bellows beach park -
Reported found by local people
walking along beach - Tried to
return to sea, but it came
back on beach.

Died just before SLP "Spence"
arrived to take it away.

Stiffest rot yet set in.

I removed plaster, - first cut in seam

resulted in lots of blood flowing out. Thick layers of fat on underside of carapace.
 Lungs fully inflated with air.
 Stomachs only slightly full of food.

Retained:

1. Stomachs (freezer)
2. Section of Intestine "
3. Gonad with vas deferens (preserved)
4. fat sample (freezer drawer)

Noted - 1. jelly like substance on outside surface of stomach
 2. Sard packed ~ 1/4 of the way down esophagus

No Apparent cause for death -
 No external injuries -

→ Called Hollenberger later in day - he will save all unused bones for me

11-24 March

- San Jose, Costa Rica

Galveston, Texas

26 March 1979

Monday

CTSC

called me

→ Ann Ulrich

Kaboolawe

- 1166 Fort Street
 Telephone 537-1988

[about report]

29 March 79 Meeting at NMFS with
Thursday Shomura;

29 March 79 → Twin seal pups
Thursday Sand Is. From: Dallas Grady - Kure ^{Hawaii 1-245-4323}
Born = 12 Feb 1979
28 Feb

Saw: 1 Hawkbill
Remained green
Saw one adult male

Short-tail albatross (informed
by station personnel)
"Rats drinking salt water"
Running down to water on lagoon
side.

30 March 79 (Elizabeth)
Friday Mr. and Mrs. Ralph Daly
of Oman visited lab

address: P.O. Box 246
MUSCAT
SULTANATE OF OMAN, ARABIA

31 March 1979 - Talked to Carr
on Telephone

2 April 79

Monday

Discussions with Cameron.

→ 5:15 - 6:30 p.m. discussions with
R. and E. Shalckenberger, 272 Kalsho,
Kailua, concerning Tern Island.

As per K. Wright

→ "IN-BOND" shipments

→ CITES ← NO
→ ESA ← YES Import

New Area Administrator GOGSHAN

3 April
79
Tuesday

called Wayne King - "only way you can tell
if exploitation is possible, is to
take so and see if decline occurs - but by
the time you see decline → PITCHARD
TOO LATE → ROSS
Palacio

GITES
Not official delegation

Minister -
Foscica Agriculture
talked to
Minister Agriculture
SUAREZ

Mexican Fisheries - Men Meeting in lounge

→ OSCANA - Costa Rica
conservation organization

Showed Movie on Turtles to Minister
by SUAREZ

Captive bred: At least one F₂, then they can
market their F₁s.

Perran may go to meeting with Mittags

3 April 79

NANCY HARMS - University Highschool Endangered SPECIES

3 APRIL
1979

TUESDAY

Bellows FIELD WORK -

Considers IUCN/SSC Newsletter
article as data summary point -
(After Big Is. Sept 78 field study?)

Data summaries in gray books should
be complete for 1) FFSO 2) Midway

NEED - KURE (note that a recovery was
made since IUCN/SSC article)

KAU - Big Island

Bellows - Oahu

accomplished

[Should obtain Gray books and prepare
individual page, with recoveries, for
tagged turtles at each study area
feeding pasture.

in water

6:30 PM 2 "floating" nets in water off rock
jetty #1. Turtle seen in
turbid water to the north - and one
again right off ^{inside} end of net at 7 PM.

It has been calm for several days -
wind came up last night and is
getting stronger.

3-4 April 79

TUES. - WED.

BELLONS

Hypotheses -

Research objectives:

TAGGING -

1) Rookery

2) Feeding postures

checked nets at ~ 8 - 9 - 10 - 2 AM - 3 AM
5 AM (Turtle present in first section at
5 AM)

2nd capture made at "joint" at 8:15 AM.

2 AM TRAC passed off jetty S → N
at 8:45 AM - Two other turtles
to the South still present.

stomach tube 3x - ulva + red or brown filaments
tan in mouth, bites ^{am}, cavalline algae on posterior end

4 March 1979 815 kg mid-join in net

2992 R # 2993 LFL trailing lg. scale seem hollow

(S) 17 ¹/₈ x 14 ⁵/₈

(C) 18 ¹/₄ x 16 ⁷/₈

PL 14

HEAD 2 ⁷/₈

TAIL 3 ¹/₄

WEIGHT 30 lbs.

NO platylepus

Sometime between
3-

500 AM

2995 RFL

2994 LFL

(S) $23 \frac{1}{8} \times 18$

(L) $25 \times 21 \frac{5}{8}$

PH $18 \frac{1}{4}$

HEAD $3 \frac{3}{8}$

sm tumor right

TAIL $4 \frac{3}{4}$

WEIGHT 64 lbs

Big skin barnacles - neck

pink coralline on tail shell ^{and} and nuchal edge.

Tube 5X - only a few small pieces
small amount of blood came out of mouth.

Water very turbid, night dark.

A few saw-o-war notes -

No feces seen on beach.

10:30 AM Nets out of water

Note

~~Nolan~~ and ~~Shallenbergers~~ and
~~Swerdloff~~ and ~~Greentree~~ spent
3 hours at FFB early March 1979

1:33 PM

4/8/79 A. Carr telephoned lab from
Costa Rica - ph. 214000 x 421

5 April 1979
ThursdayCalled Vivian Silverstein
(202) 387-0800Hotel - [Hotel ENTRY] → 11th
- Mayflower → \$600.00 MATR6 April 79
FridayCall from Silverstein - Home phone - 229-1598
For night of 11th - morning of 12th - I have reservation at the DUFONT PLAZA Hotel (arrive 6 AM)
Take #4.25 limosines from Airport, get off near Washington Hilton or Capitol Hilton - then take cab - \$1.00
Dodd wants to meet me.5 April
ThursdayTalk to Docents at SL Park
5:30 - 8:15 PM
0 miles driven8 April
SundayCalled Silverstein in D.C. at Home

10 April 79

Call from Cynthia Thielen
about sea turtles - monk seals
"Protect ka hoo lawe"
called 4/20

- Navy says I indicated they are having no input on endangered turtles

521-
3491

11 April 79 lecture at Waikiki Aquarium -
Tuesday NHI -

11-15 April 79 TRIP TO WASHINGTON D.C.
Planning meeting.

16 April 79 From Naftel - Phil Kelley -
Aka Spotter - seen
30+ turtles every day around
Oahu.

* Should
send
sighting
forms

- 86-047 ALTA
Waianae
96792
Telephone:
696-626

17 April MARS to Arn Heggers -
Telephone no. 672-3920

17 April Mr. Kim - from Bob Bourke
"strangled turtle in Backyard"
Telephoned him at 373-0396
Land Turtle 7x9 w/claws
AINA HANA

17 April - 18 April
 Tuesday Wednesday

Bellows FIELD WORK:

14:15^h min

NO captures

Calm seas - 2 section in water at 6 PM - lots of light. Two turtles noted feeding near stream mouth.

And pocket turbid areas noted. Net bend to the right - slightly cover river mouth.

Walked beach and noted Hyacinth - and other debris - i.e. grass, twigs, mangrove parts that were carried down stream.

25.5°C bottom ; 26.5°C TOP

^{calm} Turtle hit net - turtles seen feeding in morning - net out (8:15 AM)

Recall that Tyson caught turtles at Bellows with hook baited with SQUID.
 New technique - Tie squid to net?

18 April 79

Wednesday

GRIGG/NAPTEL MEETING
aboard EASY RIDER6-26 June EXPEDITION

Also - Sept and Oct cruises

- vessel Requirements
- 1) #3M P.I. insurance
 - 2) Crystals: 8mg 12mg

August - Star II dives at Midway

OBJECTIVES:

→ Oct - Hobson would like to spend considerable time at PH

→ 7-30 September
Midway to Honolulu
(PH.)

Memo to Parrish - call Parrish
FWS meeting

— Call FES about condition of boat

19 April 79 Report from Jaswan Wang the female loggerhead
is sick at SLP
30 April - Call from King's Secretary; interview w/ Shallenbeger CAPERON

BEFORE selecting any evaluation
any alternatives -
LEGISLATION of alternatives
needs to have be
determined
by FWS

→ note check FWS records -
catch stats

Reported from Skip:
That man on vessel LUSTY of Kapaia,
indicated following abalone fishing this
summer he will go with ALIKA
COOPER to "harvest" turtles.

21 April 79
Saturday
PMRF? DMA?

PROBABLE
IMPACTS:
↓

Hold Jurisdiction
City and County by Section 1717 of
Chapter 118 in the Revised Laws
of Hawaii - dated 1925. Telephone City 323-4101

- Notes:
- seawalls deteriorating - Storm damage repair ^{some from shore}
 - Difficult to regulate activities
 - STATED INTENT

PREVIOUS
IMPACT OF COAST GUARD LORAN ~20 men

- Lights
 - Human Activity -
 - Glass Ball Searching
 - BEACH RECREATION
 - WATER RECREATION
 - DOGS
 - TRAVEL TO OTHER ISLETS
 - TRANSITING VESSELS - NOT PRESENTLY
 - THE CASE
 - OIL - SEWAGE DISCHARGE
- also - DIESEL OIL SPILL
TRASH IN DUMP (STORM)
ENGINE NOISE - VIBRATION
also - AUTO - AIRPLANE
LORAN SIGNAL??

21 April 79
Saturday

FISHING IN REFUGE

BAIT GATHERING - Shore line

NETS - Drown Turtles

ULVA - closer to some islands.

Bottom Fish?

TAKE FOOD - PREDATOR

THEN PREY MORE

HEAVILY ON TURTLES?

TAKE LOBSTER (Tigers eat lobsters) Tigers than eat more turtles?

Boundaries of FFS - Tern within and apart of Refuge. - FWS required to protect integrity - also, under ESA, must safeguard Turtles and seals.

Also - Federal constraints in effect, should have consulted under Section 7 before releasing contract. OIIMP

National importance of FFS, but no input from outside.

No one specifically addressing seals

FFS has a long history of environmental abuse/degradation.

Remember previous activities of Navy - military

1973 - 1979

6th going on 7th year

Time in Study area - 3h

21 April 79
Saturday

* MINES - UNEXPLODED BOMBS UNDERWATER AT FFS

- DEBRIS ON SOUTH BEACH - cleanup needed
(503) Sekora TO contact list (list different former names)
753-8777 (additional flaw - no monk seal specialist)
NEEDS:

Concerning mid, full or combination (research station)
look to the past - what has used level been historically
with excellent facilities provided by USCg - users from
Hawaii (#); users naturally deal in terms of (#) -
ARB - mention 1971.

Concerning Emergencies
(medical ship):
How many disability?

- legality? 1. Abandonment: does it need to be abandoned, or, would this be desirable?
- legality? 2. Outpost station [CARETAKER STATION]: is there a need; would it be desirable; is it practical and economical?
- legality? 3. Mid-level Research Station: is there a need; is it desirable; is it practical and economical?
- legality? 4. FULL-level Research Station: is there a need; is it desirable, is it practical and economical?
- legality? 5. MID-level Fishery Station: is there a need; is it practical and desirable; is it economical?
- legality? 6. FULL-level Fishery Station: is there a need; is it desirable; is it practical and economical?
- legality? 7. Full level Research/Fishery Station: Same as above
- legality? 8. Recreational/Educational Facility: is there a need; is it desirable; is it practical and economical?

21 April 79
Saturday

"NOT A productive area"
EGO

- Discussing Fishing within FFS
without results of Triparty Agreements

- ANALYZE previous fishing base at
Term - learn from the past -
What fishing results were obtained
1946 - 1960 + ?

- Hired someone to determine what they
should be determining themselves.

- Effects of light on other islands -
hatchlings from other islands passing
Term.

- Contract is contrary, if not
violates

- FUCN ^{write} newsletter - lights disorienting -
Turtles vacating beaches

21 April 79
Saturday

Questions:

- lens filter.
- Craven testimony X
- Sekora - monk seals
- Interest in Fishing X
- Comments of Fishermen (Agaard, Cooper X)
- STATEMENTS By Fishermen to Take over
area - Take Turtles.
- Gates/Iversen comments X
- B. Amerson; Clapp etc - POBSP
- Limited to Hawaii people - but area is X
National

Whitow testimony -
Shoyura -
Sekora -
Kridler ? -
Amerson ?

* ~~Need~~ Crank in National component
& international component

21 April 79
Saturday

scope and intensity

MIGRATORY
ADULTS

BASELINE INFORMATION:

- of GREEN TURTLES (*Chelonia*) under US jurisdiction - Hawaiian population is by far the largest - breeding entity -
- A discrete or distinct population
- FFS is the colonial breeding site - migrations by adults (from throughout chain - accounts for 79.5% of all reproduction in population)
- No international migrations recorded - only with archipelago
- Unique sand basking habit - rare behavioral trait (along side seals); Most basking occurs on islets at FFS.
- Nesting occurs on ① East, ② W-S, ③ Trig, ④ Tern, ⑤ Gin, ⑥ L-Gin
Basking occurs on these islets as well as ⑦ Shark, ⑧ Round, ⑨ Mullet, ⑩ Disappearing and unnamed sand spits N & S of Gin complex.
- Copulation takes place (observed) in nearly all shallow waters from Gin complex to the North.
- Feeding / sleeping observed inside reef - suspected also to occur on outer slope

es
range of estimated number of adults present

Resident Adults -

21 April 79
Saturday

35

Resident juveniles -

^{Hawaiian} Greens on → Threatened Species List
of US Endangered Species Act -

Also - protected when in Refuge

Protected by State Reg 36 IN LEEWARDS

not protected by state Endangered Species Act
terrestrial

Critical Habitat proposal was withdrawn, as
per Ken Dodd - FWS

TERN - specifically

1. Nesting along entire length of South Shore
(Junk needs to be cleaned up - protect from
disturbance)
2. Nesting attempts at N sand beach
3. Copulation in inshore waters - all
around island
4. Basking - S and N, but low level
5. Feeding pastures for juveniles - Especially
N and W.
6. Sleeping areas for juveniles and adults -
(recall National Geographic)

21 April 79
SATURDAY

IMPACTS

- TAKE - INTENTIONAL - IW and on land
 (ability to regulate)
- TAKE - ACCIDENTAL
- NETS - Gill ^{DIVERS FOR NETS} and others
- (faint) Hook - ulua - etc
- TRAPS - leatherback - others unknown
- ENTANGLE

DISTURB - HARASS

- Direct INTENTIONAL
- vessel/people presence - Go to other Islands - inshore Fish
- Walk Tern Beach - inshore Beach

UNINTENTIONAL

- LIGHTS ^{Disorient hatchlings}
^{Scare off adults}
- MOTORS ^(cars, generators, boats, airplanes)
- Transiting vessels
- Discharge

Sewage

Trash

Fuel

(Recall tar)

Good removal

ALTER -

Dredging new channels -
 (Recall Cape Caravel)
 Mexican population

21 April 79
SATURDAY

Ed's boat
10 gal/hour = 100 gal/fuel/day
generator - 1 gal/hr. bring fish
for bottom fishing
Necker → Maro
May → Sept.
15 days = 15,000 gal
5 boats = 75,000 gal
15 " 225,000 gal

↑
Above notes made 4/21/79 prior
to 9 AM meeting at SLP with
Shallenbergers and Ron Nolan.

4/23/79 Rob Shallenberger telephone call:

Monday Rabbit Island -

saw more: 1964-66

traveling to

them later: 1969-73

call him:

Colin Perry
Windsurfing Hawaii

sees lots of
turtles

Section 22:

as per
Shallenberger

Planning assistance to the States

Corps #150,000

[#60,000 coral reef]
A 'cattel

more available next year.

SL Park

21 April 79 For transfer to SLP book -
 Sat 9 AM SLP - noted largest green
 in sand beach area - shortly returning to
 pond - photo - excavation, tracks of
 all chambers present. Report that
 earlier, no turtle was out. At ~ 10:30 AM
 a different green was out basking, facing
 pond.
 Noted ♀ loggerhead - floating on surface (high)
 lethargic, swollen left eye, small
 lesion on right.

see Hirtb

→ Ecological context of Hawaiian green turtle
 population

→ structure

Propeller
 reference

A continuation of base-line studies for
 environmentally monitoring space
 transportation systems (STS) at John
 F. Kennedy Space Center: Annual Report
 Contract No. NAS 10-8986

L. M. Ehrhart July 25, 1978

Biomedical Office
 Bioscience Operations
 Code MD-B
 John F. Kennedy Space Center, FLA
 NASA

GET: The Reptiles of Hawaii Schmidt, K.P. 1927

Bull. Am. Mus. Nat. Hist. 54, 395-465

SKIN Diving on a Polynesian expedition - R.R. Harry
SKIN Diver 1953 2:6-7

see Newsletter

THE [Witham, R. () Does a problem exist relative to small sea turtles and oil spills? 3pp.]

Philibosian, R. (1976) Disorient of hawksbill turtle hatchlings by stadium lights. Copeia 4, 824

McFarlane, R. (1963) Disorient of loggerhead hatchlings by artificial rood lighting. Copeia 1963: 453

(get) - See Growth article p 353. Copeia 1971
- "Growth" in Carr 1952

Oil spills → hatchlings
 Juveniles
 Adults

NOTE:
SLP Albatross - obtaining more seabirds
Herb Mann - Fisheries Anthropologist
as per Pete Hendricks (enter in Hawaii Book)

Bustard 1972 - p. 98 88% natural occurrence

4/23/79 → Called Shomura about meeting
Monday should get with him upon return

4/23/79
MONDAY
Thomas T. Bannister
Dept. of Biology
Univ. of Rochester, N.Y. 14627

↑
VISITED lab - brought to me by Cozzom -
had lots of questions about turtles

~~NECKER - FFS Trip aboard Eurykiki, 4/23 - 5/12/79~~
5/15/79 Telephone call from Redman (hebuff's student)
Tuesday in California about FFS

— call from Gaffney about ^{photos for} SEA article

17 May → Meeting with Shomura at NMFS
~ 2:15 PM

22 May
79 Called V. Byrd - Hawaii
(1-828-81431)

23 May
1979 Bryan McMann 261-1140
243 - PUEOHALA (love) Street
Kailua

found turtle on beach in front of House
notified NMFS Bill Streeter
off - Ma Halekeo
gone - circle
PAIONE

5/23/79 Report from NOSC that "sea lion
Wednesday with harness" was lost.

Whitlow reported that this was on the radio news.
Boat turned over - seal in cage down when it
sunk to the bottom. Other seal escaped.

* Southeast region work -> some in
attendance have first interests/self
interests elsewhere.

5/24/79 Visit to SLP

Seabird count - (4) adult black-footed

immature, (1) adult Laysan

(7) immature Masked boobies

Put in
SLP Book

- Noted untagged (fat) green jay reef tank-
flippers perched out + tail feathers, thrash
head - motionless - neck stretched
out - Convict tang and bright yellow reef
fish grazing on shell & rock - presumably
on algae.

- Also in reef tank, "P. Maikai" hawkbill
(fat).

- Bourke reported that:

Waikiki Aquarium loggerhead ♀ died about
3 weeks ago - performed postmortem with

SLP
5/24

SLP vet - found large abscess on posterior of one side - no TB found. Schallenberges indicated it also - eggs have been laid on beach - positive of one clutch, plus possibly more one nest dug in to. only female positive is largest light female with piece missing from posterior of carapace. I noted copulation attempts among greens

5/29/79 Walt Simons called about talking to his dive club

5/29/79 TUESDAY YEAR-? → Charles Gerner
parking lot - boat operator man - CETA - used to use turtle nets in Kaneohe Bay - 5' wide - 220' long - set on bottom (?).
sold meat only to Chinese market - 01 man who had two restaurants - got \$3.00 found. mess to clean.
Saw recently a turtle in a cave sleeping - Chinaman's Hat
Pipe and buoy going out of channel; and reef flat area NE of 11' tall range marked - inside of buoys 829.
commented that only tagged turtles are protected.

5/31/79 spent 1 hour w/ him in BW
see map - he has lived Kaneohe 30 years
turtles now fewer - mostly located at Chinaman's Hat end. described 2 caves between

Lanfan (?) Pa honu as per May Hawaii Fishy 1979 news

probably no finite point of adverse impact, but rather increasing levels -

For
June 5, 1979
TUESDAY 9 AM

Cogshall FWS

Discussion topics

- Shomura meeting
- Rose Atoll, Johnston, Howland, Baker, Jarvis
Turtle Funds
- Kridler
- Heavy metals in birds
- Draft Critical Habitat proposal for Green
- Tern Island transportation

Visited Cogshall & Brent this date

Tolerance of wildlife

- What they will tolerate - vs - non-disturbance
of natural activities ^{as possible} ^{would be} appropriate
for a refuge with "threatened"
and "endangered" species.

Send Cogshall packet of information consisting of:

- 1 - Calendar
- 2 - WW Booklet
- 3 - Bio. cons.
- 4 - Defenders
- 5 - Elepaio Terr. Crit.
- 6 - ^{Tiger} ^{cats} loggerhead turtle
- 7 - Elepaio Tiger eats monk seal
- 8 - Benthic Marine algae
- 9 - Turtle Newsletter - Growth
- 10 - Turtle Newsletter ^{turtle} ^{product} ^{printed}

Probably no finite point of adverse impact, but
rather increasing levels - increments.

44 Two nets set off jetty #1, almost at right angle to the North. 3-4 turtles seen feeding - two very close to N. side of jetty. Tourists report seeing turtles frequently, particularly late in \rightarrow over

29-30 MAY 1979 BELLOW'S

TUES-WED

2333 RFL # 2334 RFL trailing
2332 LFI

RECAPTURE

in 6:45 PM
out 10:45 AM

encrusting growth on tags small coralline on shell
Algae and skin barnacles present, present tags
"expanded", ^{small ant.} coraline, ^{delimitaria} small barnacle on carapace

Caught between 2:15 - 4 AM

5/30
16 HOURS TOTAL

(S) 24 1/8 x 19 5/8
(C) 25 1/2 x 24 1/8
PL 19 1/4
HEAD 3 3/4
TAIL 4 7/8
WEIGHT 74 lbs.

Release by N jetty - swam out and back into net - caught low.

Stomach sampled - small amount of blood - small piece of food from mouth.

RIGHT FLIPPER - notched



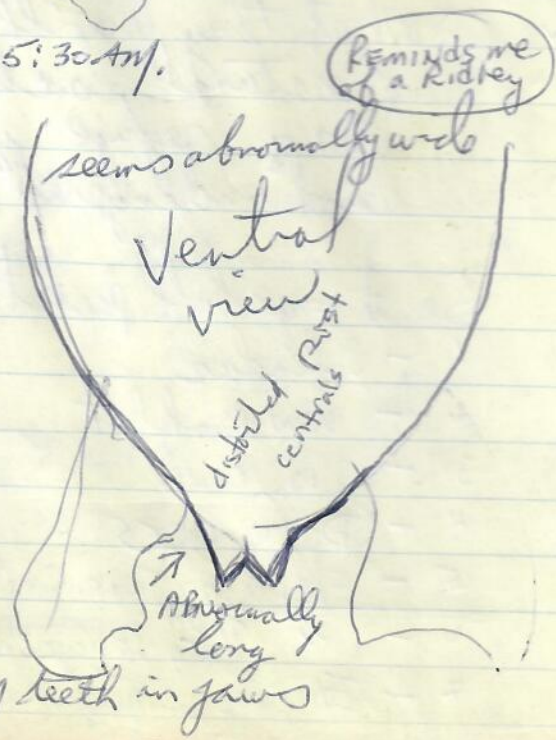
CAUGHT between 4:30 - 5:30 AM.

TAG # 3090 RFL
3091 LFL
(S) 18 1/2 x 16 5/8
(C) 20 1/8 x 20
PL 15 1/4
HEAD 3 1/8
TAIL 3 7/8
WEIGHT 35 lbs.

food covered - stuck to roof of mouth - (blood?) out?

Clean - smooth soft skin

spiny teeth in jaws



BELLOW'S
29-30 MAY 1979
afternoon
but no turtles

5/30/79

29-30 MAY
1979

afternoon.

Note: info by McGanney ^{Alava} - Kalafana
turtles - shark hooks -
hoggerhead - lots of fish under it.

No captures during twilight/evening, although turtles were seen. Light winds mild swell - warm water, but no temperature taken. 5/30 photos ASA - children with turtles.

^{25 years ago?} There used to be caves - ledges off church at Kalafana where divers would go down and "hook" with shark hook in fin - people on shore would pull it in. Large turtles. Area destroyed by volcanic activity.

5/30/79 Call from Rick Goffney
Kona - Heatherbacks seen by
two boats - he will send details.

5/23/79 McMann Kailua Beach

Head MISSING

worked up

6/1/79

IN Lab

S - $16\frac{5}{8}$ x $13\frac{3}{8}$

C - $17\frac{5}{8}$ x $15\frac{5}{8}$

PL - 13'

TAIL - $3\frac{1}{2}$

WT - 221bs

Photos taken # 1-4. ASA 64

HOLES → First L. RIGHT and Third central
COT on ventral side of R. flipper

INTESTINES appear to be filled with mostly
codium and black sponges,

No skin barns, but skin
 alga present,

Request ^{KAM to} extract all large bones,
 carapace & plastron.
 Saved contents of 1st & 2nd well
defined stomachs in separate
 containers.

* → Note: Methodical survey needs to be
 made along the coastlines of each major Hawaiian
 Island, using knowledge obtained from local
 informants - dive and interview as you go.
 On a piecemeal basis, this has been started
 by me through aerrals, informants, sighting forms, etc.

Whitlow: 537-2336

47

Rob Shallenberger; ~~537~~
261 3741

Outline for - Report on Marine Turtle
in the Hawaiian Islands -
- Synopsis of Biological Data
on Marine Turtles in the
Hawaiian Islands -

SECTIONS in which exist unpublished
data can be included

- Catch STATISTICS
- MAPS

682-5044

6/5/79
Tuesday

Call from Francis Espargui
seeing 4 very large turtles off
of Troquois Point -
of Sawacles - also saw
people trying to catch them on
Sunday - (I contacted Scott Andersen)

weather -
water -
feeding obs -

6/5/79 TO BELLOWS ~ 4PM

IN WATER #1 2 sections of net in water jethy
Right angle to the north -
5 PM 2-3 turtles with scum of shell seen
feeding - 1-2 close to N rocks of jethy.

Some possibly
behaving net
6:00pm - still
light out

1st capture - 5:45 PM
2nd " 6 PM (caught near lead line)
Both badly entangled in net -

Note - excellent use of binoculars for
viewing net floats at night.

OUT 12:30 KH6 DSO Ann - Steve Polanski
fishermen at jethy #1 - lives in Kailua -
10 years ago he went in to Milohii with
State Parks people - made contacts through
Sours, Director. Large turtle was
harpoored from reef flat - channel
come in through shallow reefs -
Did not vote or hear of nesting.

9 hours
30 min

6/6/79
Wed

#3 caught 9:30 am 6/6

⑤ 10:00 caught (by join)

⑦ 10:15 caught (by last float)
20' left

6/6/79 3rd capture ~ 11:15 PM

Wednesday

4th capture - 6 AM (largest)

① → # 3092 LFL # 3093 RFL (enlarged)

(S) $20\frac{7}{8}$ x $17\frac{7}{8}$

(C) $22\frac{3}{4}$ x $21\frac{5}{8}$

PL $16\frac{1}{2}$

HEAD $3\frac{1}{4}$

TAIL $3\frac{1}{4}$

WEIGHT 50 lbs

Polysiphonia and skin barnacles
tan globules on palates of mouth

pictures taken ~~at~~ #3

② (S) $20\frac{1}{2}$ x $15\frac{3}{4}$

(C) $22\frac{1}{4}$ x $19\frac{3}{8}$

PL $16\frac{5}{8}$

HEAD $3\frac{1}{4}$

TAIL $4\frac{3}{8}$

WEIGHT 46 lbs

Grew 2 cm in
7 months

Recaptured

• 285 cm³ / mo 12/4/1980

SL = 53.9 cm

3094 RFL # 3095 LFL (enlarged)

Pink coralline - ventral

Turtle barnacle on right margin - ventral

Small pieces of alga saved from mouth

- ③ # 3096 RFL # 3097 LFL (enlarged)
 (S) $16 \frac{1}{2} \times 13 \frac{1}{2}$
 (C) $17 \frac{5}{8} \times 16 \frac{1}{8}$
 PL $13 \frac{5}{8}$
 HEAD $2 \frac{3}{4}$
 TAIL $2 \frac{3}{4}$
 WEIGHT $22 \frac{1}{2}$ lbs

PC ventral, PC posterior carapace
 mouth sample obtained — jelly-like mass

Ⓟ pictures taken, bleeding by days
 photos #1-2

- ④ # 3098 LFL # 3099 RFL # 3100 LFL + tail
 (S) $24 \frac{1}{4} \times 19 \frac{5}{8}$
 (C) $25 \frac{5}{8} \times 23 \frac{1}{4}$
 PL $19 \frac{1}{4}$
 HEAD $3 \frac{5}{8}$
 TAIL 5
 WEIGHT 72 lbs

pink coralline ventral, small turtle burr ^{right side} on PL
 photo #5

⑤ # 3101 RFL # 3102 LFL (enlarged)

(S) $16 \frac{7}{8}$ x $13 \frac{5}{8}$

(C) $17 \frac{3}{4}$ x $16 \frac{1}{4}$

PL $13 \frac{1}{4}$

HEAD $2 \frac{5}{8}$

TAIL $3 \frac{3}{8}$

WEIGHT 24 lbs

PC on ventral margins, a large amt. of PC on posterior portion of shell.

stomach sample retained

Photo # 6

⑥ # 3103 RFL # 3104 LFL (enlarged)

(S) $16 \frac{3}{8}$ x $13 \frac{1}{2}$

(C) $17 \frac{1}{2}$ x $15 \frac{3}{8}$

PL $12 \frac{3}{4}$

HEAD $2 \frac{5}{8}$

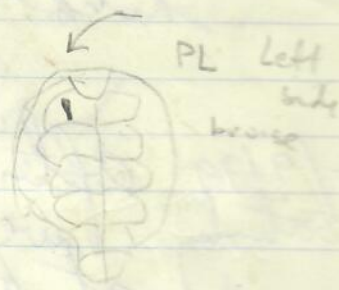
TAIL 3

WEIGHT 23 lbs

PC on ventral margins

Photos # 7, 8

tan in mouth, green algal growth growing on roof of mouth



⑦ # 3105 RFL # 3106 LFL (enlarged)

(S) $19 \frac{7}{8}$ x $15 \frac{5}{8}$

(C) $21 \frac{5}{8}$ x $18 \frac{3}{4}$

PL $15 \frac{3}{4}$

HEAD 3

TAIL 3

WEIGHT 40 lbs

PC on ventral margins

stomach sample retained

algal growth roof of mouth

Photos # 9

6/7/79 Call from Tom Knight, FFS
through Glenn KH6-JPS
tel 499-2825

6/8/79 Enters in Big Is. Book

FRIDAY

Call from Bud Doty 938-8042
Reports that on Monday he checked
Kamehame (for water leaks), saw
"3 mgsts" ² by Naupaka - doesn't
believe that they were over a few days
old - He asked how long before they
hatch? He knows in arr.

6/9/79 after Kam Day parade in Waikiki
Saturday we observed several displays of
at Kapiolani Park dealing with
Hawaiiana. Hawaiian display of
algae display indicated that
turtles eat:

Limulipoa and
Limupalahalaha

also that there are 5 varieties of
Codium - all called
Limuaalaua
inkauai this (a) is eliminated. The name
"Waiwaieole" means "rats feet" and
is an incorrect name.

all
collected
Windsor
H
myc

called
2 July 19

call
Colin Perry
windsurfing
Hawaii
my contrb. more than "Maui Turtles" for Tern Is. Report

NEED copy of:
→ PACIFIC ISLANDS YEARBOOK

Belmore 4/3 4/17-18/79

June 10-30, 1979

- FRENCH FRIGATE SHOALS -

called him
2 July 1979

Justin Rutka

373-0067 (Home)
548-2885 (work)

Turtle turned in by Justin
2 wks - Sat.

Portlock point - public access
toward Harauma Bay -

jumped in and drifted back
- 1/2 way; (10-15') → 40'-50'
turtle at 50' ↓ snagged
"slide bait"

Tangled in line - are flippers
→ right front -

5% of dives sees turtles;
→ Dives twice a week

3 July 1979

TUESDAY

Woman, who gave me a haircut at the VH indicated that Japanese custom of her parents dictated that sea turtles should not be killed; this ~~is~~ is because

- 1) turtle represents longevity
- 2) "Saved the man" in Urashima Taro
- 3) "cry" when they know you are going to kill them.

She also related a story about a Japanese friend who was the Captain of an Abu boat in the 1960's - he had some Territory crew members aboard - they caught a turtle offshore and brought it aboard - but the Captain made them turn it loose when it started crying.

- Humanistic values -
Good conservation aspects

BASIS FOR
Carapace coloration

GENETIC

Parental determination

ENVIRONMENTAL

1. Effects of food
2. Effects of shelter background coloration

For differences to exist in coloration
 between feeding pastures would mean
 that hatchlings from a particular parent
 are all ending up at similar
 locations - NOT BEHAVIORAL

Recall effort to retrieve hatchlings from nest deposited by light brown/goldish turtle at East Island.

Most of the East Island nesters are dark colored; ← in contrast most of the juveniles captured are goldish-brown colored [except that sub-adults at Kunaluu and Kaafuahu are dark colored]. Also, ^{NOTE} North Shore of Oahu - compared TO BELLOWS.

∴ MOST NESTERS ARE DERIVED FROM PASTURES WITH DARK CARAPACES ∴

[Turtles in captivity/reared in captivity could be considered atypical due to diet.]

[Recall that changes have been documented in the color of the scales on the head; Black → Brown photographed (Barber Strip turtle at SLP (photo))

note - white, bleached-out appearance of turtles after being in lab (white container) and fed squid flesh.

7/5/79 observations conducted today of turtles in cages, and of photos (stacks of captive turtles over the years suggest that changes ~~do~~ take place in both COLORATION and PATTERN as the turtles grow. Differences exist between animals -

but not too much difference in litter rates obtained from W-S. Genetic differences that come into play would have to include possibility of insemination by more than one male.

Also note that for Kiholo, Kau, Bellows (in fact nearly all pastures), turtles that have been sampled show a lot of color/pattern variation. However, darker individuals have appeared at N. Oahu - Kiholo - Kau.

NEED -

- recent photos of captive Green -
- Assemble all color photos of captive in chronological order