

G. H. BALAZS ✓

1978-1980

KIHOLO +

BIG ISLAND

2 OF 2

KAI - SEPTEMBER 1978
BIG ISLAND 23-26 JAN 1980
KIHOLO 18-22 MARCH 1980

1980 CONIFER STRUCTURE 18-MARCH 1980
KIHOLO 14-20 OCTOBER 1980
~~BOOK I~~

Needs list for Kiholo, Big Island expedition

- X 1. Tide Chart - March
- X 2. CB-Radio
- X 3. Name - FWS affiliation of ^{Theresa Hayes} Puako woman diver ^{Parrish} employee
- 4. QW camera
- X 5. Sighting forms for Big Island(?)
- 6. Backpack
- X 7. Line
- 8. Xerox tape in waf of coastline
- 9. Map of Hawaii
- 10. Profane
- 11. C-Patents
- 12. Food

Need - Data book with May 1973 Kiholo Expedition

MR. Robert Hines
 PO Box 1149
 KAILUA-KONA 96740

18 MARCH 1980 - 10:10 AM Depart Hawaiian Air flight 508 at
TUESDAY for Kailua-Kona - 5 excess pieces
of baggage. Jean King aboard flight.

Note - Check Hugo's Restaurant for sale
of turtle dishes
- Check on print "A Relative
Turtle"

Several ^{white} sand beaches along coastline ^{North of} Airports
house by some; ^{graded} roads leading in.
Arrive ~ 10:45 AM. Keahole-Kona

- OBJECTIVES:
- 1.) Sample Kiholo with nests
as a comparison with April 1973
trial with Ed Bilderback -
 - 2.) Attempt tag recoveries for growth-residue
 - 3.) Tag to ascertain (human predators)
at this time (1980 - reward - telephone my
no. on tag)
 - 4.) Determine why turtles use pond
 - 5.) Collect algae - determine food sources
 - 6.) Examine areas reported by
Rick Taylor.

SUNDAY
6AM NOON 6PM

MONDAY
6AM NOON 6PM

TUESDAY
6AM NOON 6PM

WEDNESDAY
6AM

3 FEET
2
1
0

MARCH 1980 TIDE CHART

2

3

4

5

9

10

11

12

16

17

18

19

23

24

25

26

30

31

Moon phase indicator:

Moon

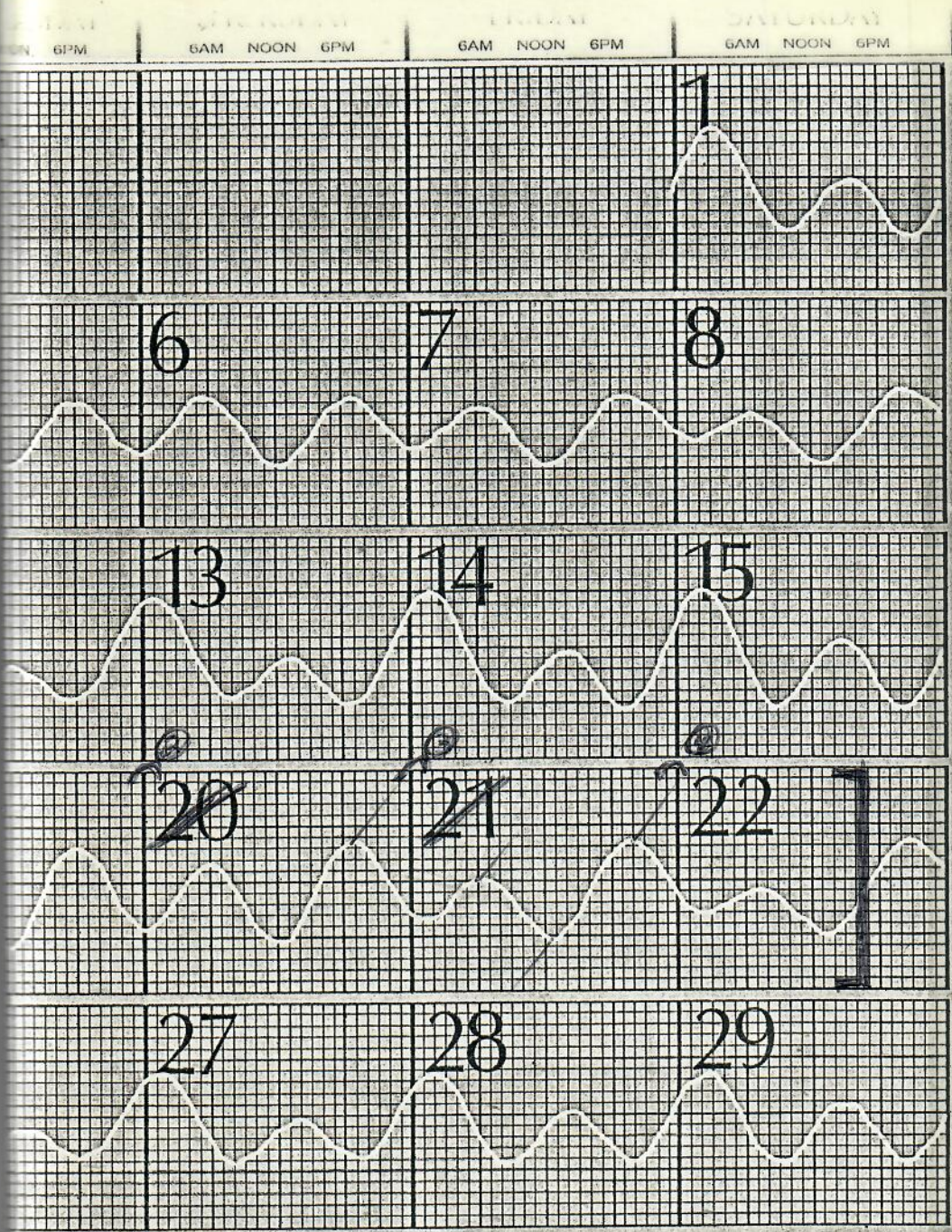
FULL

MAR

NEW

MAR

[Faint handwritten notes in blue ink on the left margin, including dates and tide-related terms.]



PHASES

For tide time at following places, add or subtract from Honolulu time.



PORTS	Hrs.	Mins.	PORTS	Hrs.	Mins.
HANALEI BAY, KAUAI	-1	40	KAUNAKAKAI, MOLOKAI	-0	09
NAWILIWILI BAY, KAUAI	-0	32	KAHULUI, MAUI	-1	48
PORT ALLEN, KAUAI	-0	32	KIHEI, MAALAEA BAY, MAUI	-0	14
HALEIWA, OAHU	-1	36	HILO, HAWAII	-0	59
HANAUMA BAY, OAHU	-0	55	HONUAPO, HAWAII	-0	24
KANEOHE BAY, OAHU	-1	35	MAHUKONA, HAWAII	-0	24
LAIE, OAHU	-1	48	KEALAKEKUA BAY, HAWAII	-0	16
WAIANAE, OAHU	+0	16			
WAIMANALO, OAHU	-1	15			



18 MARCH 1980 TUESDAY

At Kona airport I rented a Dollars
U-Drive for \$11.95 per day. Saw
Ed Bilderback ^{here} here for one week
and now returning to Seattle -
Cardi Stanley's telephone numbers -
Called Bobby Hines - Gate Comb. 9928
Food car and proceeded to dirt
turnoff road a short distance past
Kiholo lookout. Park car by
stone wall with barbed wire on top.
Transferred gear to Sandy Bay
campsite, taking four trips.
Four houses and situated on bay - plus
concrete remains of an old house.
Water tank, with overflow, also present
at one of the houses.

Snorkelled around fishpond/entrance/
rock edges. No algae growth to speak
of, and no turtles seen.

Put 2 sections of net in water
about 6:30 PM - one end tied to
rock at end of entrance peninsula,
other end anchored to bottom.

Turtle caught in end of net at
~ 7:00 PM - held overnight at
camp. Swam along net at
~ 10 PM + nothing - but a few places
along the bottom caught on coral.
Checked again with light from shore

324-1295

Box 1149
KAILUA
KONA
96740

19 MARCH 1980

WEDNESDAY 2 AM, and ~ 4:30 AM.

At 5:30 → 6:00 AM twilight
appearing - swam net at ~ 6:30 -
no turtles.

~ 7 AM - observed 3-5 turtles surfacing at
various locations around Bay.

At ~ 8:45^{AM} snorkeled around area
and collected algae - noted flat,
rock shell in area of inland
ponds outlet (area where Taylor
saw 6 turtles - 7/79 - 8/79). Green
"crisp" alga growing on these rocks.

Also, quantities of red filament.

Sprinkles of rain during the morning.

18 MARCH 1980 about 6.30 pm - captured at end of net - set outside channel.

3303 LFL S 51.6 cm X 40.6

3304 RFL
expanded

C 55 X 48.2

extra scale ^{left} limb
2 ↓ L Hand 1 between 2-3 phalange, last digit
3 (its hand)

PL - 39.8
HEAD - 8.0
TAIL - 11.7

WT - 43 lbs

tags are inscribed "Reward - 395-6409"

Released ~ 8 AM - caught * again
in net about 8:45 AM. - tangled bad,
but tags are O.K.

A few ^{skin} barvoles present; small
quantity of red-skin algae;
Stomach ~~sample~~ sample obtained.
photos w/ calipers

19 MARCH 1980 - Wednesday

At ^{11:00 -} ~ 11:30 AM, I walked to house side of Bay - noted turtle surface briefly off site where three fence posts are located. Observed two couples walking along beach. ^{1 - man and woman} ^{2 - men}

~ 11:45 AM Saw 2 + 1 turtles floating swimming at the surface at the very end of pond.

At ~ 2 PM we moved the two sections of net to inside the pond - one end tied off coconut tree, and other end to kiawe tree. Strong winds blowing.

At ~ 5⁵⁴⁵ PM I walked to "sluice" outlet by houses. Observed at least 1 juvenile and 1 subadult in this area. SA surfacing at ~ 10 minute intervals - only one breath taken each time.

Shortly after dark turtle captured in net - also small Manta Ray's. Turtle removed and transported to camp.

19 MARCH - WEDNESDAY

With lights, we proceeded to survey rocky ledge of pond looking for turtles that I saw earlier - freshwater floating on surface is cold - warm underneath. At the very end of pond I encountered turtle swimming along not too far under surface - no flight response from light - capture made.

(2) net captured inside pond shortly after dark -
19 MARCH 1980

3297 S 59.5 x 44.3

3298

C 63.0 x 53.0

PL ~~47.2~~ 47.2
HEAD 9.0
TAIL 14.7

skin barnacle saved in SAMPLE
Skin barnacles - barnacle in PL w/ SAMPLE
ragged edge (trailing) on HIND FLAP

red algae

Stomach sampled 2x - algae retained, WEIGHT = 65 lbs

healing hole (this size) 4th lat. Right
(gunshot injury?)
Photos of swirl patterns on carapace
photos of carapace #25-30

(3)

~ 10 PM hand capture at very end of pond - 19 MARCH 80

3299 RFL (S) 44.3 X 38.2

3306 LFL (C) 46.3 X 44.7

PL 36.9

HEAD 6.6

TAIL 6.9

WEIGHT 24 lbs

No skin barnacles, no red skin algae, but some green on plastron.

White plastron and "scalloped" margins to carapace.

Deep hole in 3rd lateral right - some blood - silicon lubricate applied

Stomach sampled 3x - algae retained.

photos #32-34 (includes plastron)

④

Early morning net capture inside pond - 20 MARCH 1980
Thursdaycaught
Apr 20th

3305 RA S - 51.2 x 41.6

3306 LFL

C - 54.8 x 50.3

inscribed
395-6409-
(only)

PL - 41.4

HEAD - 8.1

TAIL - 11.0

Stomach Sample 2x -

* note - take out 2 amphipods

from neck skin folds

WT - 45 lbs

Photos #35-38

Very small skin barnacles -
green algae on carapace -Hole ^{deep} (5) healed in 3rd central
right side. (gunshot injury?)

20 MARCH 1980 Thursday

.22 caliber cartridge noted in sand by our campsite

Kihobapparently a popular place for gathering bait.

Easy access now that new road has been constructed - cars can be regularly heard. Also light seen at night from Kailua - Kona (or?).

Fairly easy walk to Kihob from highway.

2:30 PM drive to Kawaihae - noted two construction cranes near Annehonolu Bay. Consider impact on foraging postures - lights, activity, access, etc.

During morning we moved the net closer to entrance - stretched between a boulder and lava rock on Mauka side. - released Eagle Ray and Manta.

At about 1:30 PM we set one panel of net off end of sluice outlet

Return from Kawaihae at about ~4:30 PM

observed "Sluice" foraging area and net -

Thursday
20 MARCH 1980

Saw a turtle feeding in front of me - to the immediate left of sluice. None seen where they were observed last night at this time (5:15 - 6 PM)

I walked to campsite - noted manta in net - swam out to free it, - caught by structures on head - what is

Manta doing in here?
At full dark (thin moon) I observed turtle in net by sluice - recovered and transported to campsite.

(5)

20 MARCH 1980

net capture
- 7PM by sluice

3307R

S - 48.1 x 37.2

3308 LFL

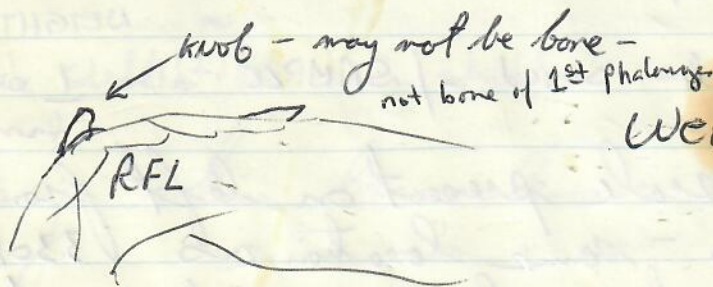
C - 51.6 x 46.9

Plastron - 38.2

Head - 7.8

TAIL - 9.5

Photos #1-3



Weight - 34 lbs

A few very small skin barnacles -
 Red algae on skin -
 Stomach 3x - 2 small red filaments - no sample, saved
 Several small pieces of coralline on carapace.
 Barnacle removed from plastron - bleeding - saved w/ stomach sample of 3309

20 MARCH 1980

⑥

~ 7:30 PM - 8 PM net capture - Pond
 - removed shortly after release of ^{6B} manta

3309

~~3309~~

3310

S - 53.6 x 42.3

C - 56.4 x 48.7

PLASTRON - 42.0

HEAD - 8.5

TAIL - 10.7

46 lbs.

Left Front Flipper



PL barnacles saved w/ SAMPLE also 1 other PL barn.
 from # 3308

WEIGHT -

Knob-scale present on left front
 flipper - same location as 3308
 Stomach sample 3X - sample saved

Red & green algae - very small skin barnacles
 white scum on shell & lots of scratch "swirls"

Photos #4-6

(7) 21 MARCH FRIDAY
 Captured in net by sluice-rotel
 at ~ 6 AM

3311 RFL

3312 LFL (S) 62.0 X 47.6

(C) 65.8 X 57.4

HEAD 9.1

PL 47.3

TAIL 15.4

WEIGHT: 66 lbs

^{mud}
 Dark shell (+) black in shell

Many skin barnacles - many removed.

Stomach sample 3X (very little obtained)
 Green algae on plastron - small amount
 of red on skin.
 Close-up photos of skin barnacles -
 #8-11

(8) 21 MARCH 1980 Pond net capture, noted
~ 6:30 AM

3313 left (S) 42.3 x 34.5

3314 right (C) 44.6 x 40.0

PLASTRON x 34.3

HEAD 7.0

TAIL 9.0

WEIGHT: 23 lbs.

very sm. skin barnacles, Red alga on skin

Stommy right side of carapace
small piece of pink coralline algae

one photograph #14

- no stomach sample

21 MARCH 1980

FRIDAY

12:45 PM

(30.5°C ^{shore air} temperature)

During morning hours, more Beach 18
tourists plane flew over.

5 girls, one man arrived for nude
bathing and sunbathing at [~]12 noon.
Possibly broke the gate (?)

SEAWATER TEMPERATURE - 3/20/80

25°C by cage

26°C farther out in Bay

25-
~25.5 by sluice exit. J

During the afternoon, we took net out
by sluice and unraveled it -
strung it up on coconut trees.

Noted - gray ghost crabs on campsite
back sand beach. Earlier I saw
a crab grasp and eat a
yellowjacket.

21 MARCH 1980 FRIDAY

Anne Appleby
2406 Delphi Rd SW
Olympia
Wash. 98502

206 866-0457

Conducted marine survey at Olawalu during past two months - previously visit Coconut Island on tour/stress with Evergreen College.

Need to send aerial map of Maui area - turtles regularly seen - 15-36" size range.

Surveyed lava rock reef flat adjacent to sluce outlet at low tide - bare - nearly fresh water percolates in ⁱⁿ ~~up~~ - red algae and others grow in area -
collections made.

Before sunset, a turtle was captured by net in the pond.

Following sunset, ~ 9 PM, two turtles were captured in this net.

At ~ 10 PM a turtle was captured in net by sluce outlet.

All held on beach until following morning.

⑨ Captured 21 March 1980 before sunset
in pond net: - leaving pond (apparently)

3315 RFL

S -

42.9

x

34.6

3316 LFL

C -

45.1

x

41.2

Plastron - 35.1

HEAD - 7.4

TAIL - 8.2

Recaptured
HPA # 6 3/1/89
Added Y-101 3-45L

Weight - 2816g

Very small skin barnacles -
Small amount of red skin algae

Photo 15 - blood from tag

(10)

21 MARCH 1980

Pond net capture - 9M
 (along with capture on p83)
 Both appear to have been
 leaving pond

49.4 x
 3317 RFL S - 37.7

3318 LFL

C - 51.5 x 46.5

recaptured 4/28/88 Kiholo - net HPA #3
 3317, 7782 (8933, 8934) S - 65.8 cm
 Plastron - 39.8

HEAD - 7.7

TAIL - 10.9

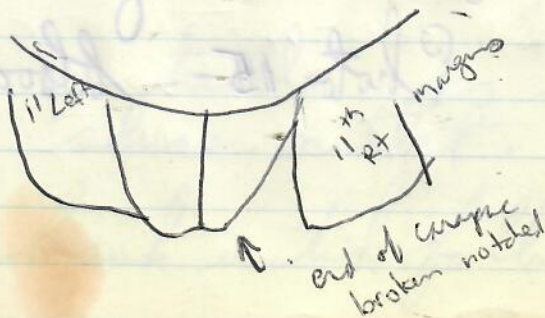
Green & red algae on plastron - Weight - 37 lbs
 Green algae/ssum abundant on plastron -

* fishline ^{NO} - Terrestrial vegetation
 in rectum

Alga on PL

5th + 6th Marginal LFF
 are semi-fused together
 6th abnormally wide

Photos # 16-19



(11) 21 MARCH 1980 Pond net capture ~ 9 PM

3319 RFL

S - 47.6 x 37.8

3320 LFL

H C - 50.5 x 45.4

Plastron - 38.7

HEAD - 7.7

TAIL - 11.0

Weight - 37 lbs

- Skin bryozoa
- red skin algae

photos #20-21

Recaptured ~ 15 minutes later - swam into net.

(12)

21 MARCH 1980 ~ 10 PM capture in net by sluice outlet.

UOQAD RFL

3321 LFL

S - 52.4

x

41.4

healed wound between 3rd & 4th large scale

OLD TAG?

3322 RFL

C - 56.4

49.4

plastron -

42.1

HEAD -

8.4

TAIL -

11.5

WEIGHT - 49 lbs

STOMACH SAMPLE ←

Skin barnacles saved

"Swirl" scratches on carapace
 Green algae on plastron - also ~~red~~
 Red algae on skin

Photo #21

Plaston algae scraped from
two largest turtles of previous
four.

22 MARCH 1980 SATURDAY - up ~ 5:30 AM
Turtles #9-12 tagged and (first light)
measured during early morning.

No turtles found in any of the nets.
Manta present in pond net - Kamp
cut it loose - poor condition - fishhook
may have been embedded. Manta beached
in channel - probably died.

Pulled pond net out - 9:30 AM -
Shove net shortly thereafter.
Transferred all gear to Beach side.

Caretakers for Hyes - Peter and Loe
arrived either last night or
this morning. - They are cleaning
palm fronds and coconuts in yard. -
Cangels with permission will be
arriving. She knows "Patchy"
Dandy - Holt; John Wheeler has
been down there with her once.
Other "outside" property owner is

22 MARCH 1980 SATURDAY

Porteus. Damon owns gray shuttered house.

Peter and ~~Lei~~ report that they lived in Kiholo area in 1953 - raised hogs - Many turtles were also present at that time - ~~Lei~~ indicated that there were "bigger" ones. ~ 17 houses in area.

In 1961, the tidal wave opened up the left hand channel. Previously there was just the "S" shaped right hand channel. 1961 tidal wave also destroyed all of the houses in the area. Peter reports that last

* August or September he counted ~ 45 turtles feeding in the bay, during the daytime all at the same time. ~~Lei~~ indicated that a wedding took place at this location - photographs taken show turtle heads surfacing in the bay. They agreed that turtles come into bay to feed on red shrimp.

Also noted that Hires previously had a few turtles in ponds, but let them go because they were eating all the fish food that was put in pond. mullets (being intentionally raised).

We departed from Kiholo at ~ 11:30 AM -

22 MARCH 1980 SATURDAY

proceeded to Airport. While we were leaving, pickup truck loaded with camping gear arrived. People were not very friendly. Several people were also attempting to board offshore. Loe reported that adjacent property has all been sold - also that State or County may put in a beach park. A paved road leads off from near "lookout" part way down the adjacent palm grove.

* Telephoned "Huggos" Restaurant in Kailua - They have turtle steak - \$12.95

Depart Kona flight Hawaiian Air 407 about 3:05 - Arrive Honolulu

Alomihaha blowing strong - numerous white caps present.

note - mandible of juvenile green turtle was found at our campsite.

* Kam reports that it is on the menu (not clip-on), states Turtle Steak - farmed - when available -

18-20 MARCH 1980

Tagging Summary -

12 captures

Range - 62.0 - 42.3 cm

Straight length

Mean - 50.4 cm

2 recaptures

Tag 3303 within 45 minutes

Tag 3320 " 20 minutes

Tag 3321 - piece missing between scales
of right flipper - possible
recovery from May 1973 expedition.
SL - 52.4

IF this was one of my
KITOLO tagged turtles, then -

MAXIMUM POSSIBLE GROWTH (82 months)

$$52.4 \text{ SL} - \text{tag } 609 \quad 37.3 \text{ SL}^+ = 15.1 \text{ cm} = .18 \frac{\text{cm}}{\text{mon}}$$

MINIMUM POSSIBLE GROWTH (82 months)

$$52.4 \text{ SL} - \text{tag } 615 \quad 50.5 \text{ SL}^+ = 1.9 \text{ cm} = .023 \frac{\text{cm}}{\text{mon}}$$

KiHolo - See "Water Resources" report coauthored
with Steve Dallas (copy on file) 89

SUMMARY OF TAGGINGS CONDUCTED AT KIHOLLO
WITH ED BILBERBACK 14-15 MAY 1973 - 82 months
(Transcribed from Book 1 - East Island Project and Main Island Tagging) ^{A40}

<u>TAG NO.</u>	<u>STRAIGHT CARAPACE LENGTH</u>	
14 MAY 1973 - 0700-0800 h		
602	52.4 cm	(Captured by Auna 6/3/76)
603	41.9 -	
604	45.7 -	
605	66.0	(Captured by Auna 9/11/73)
" " - 1400 h		
607	47.6 -	
608	49.7 -	
" " 1900 h		
609	37.3 +	
610	42.9 -	
611	41.3 -	
15 MAY 1973 0730 h		
612	47.6 -	
614	63.2	
615	50.5 -	
616	64.1	
617	44.6 -	
618	43.5 -	

(9/14/74 Muey
Recovered tag "61"
2 miles north of
Kona Village)

15 total Range - 66.0 - 37.3 cm
Mean - 49.2 cm

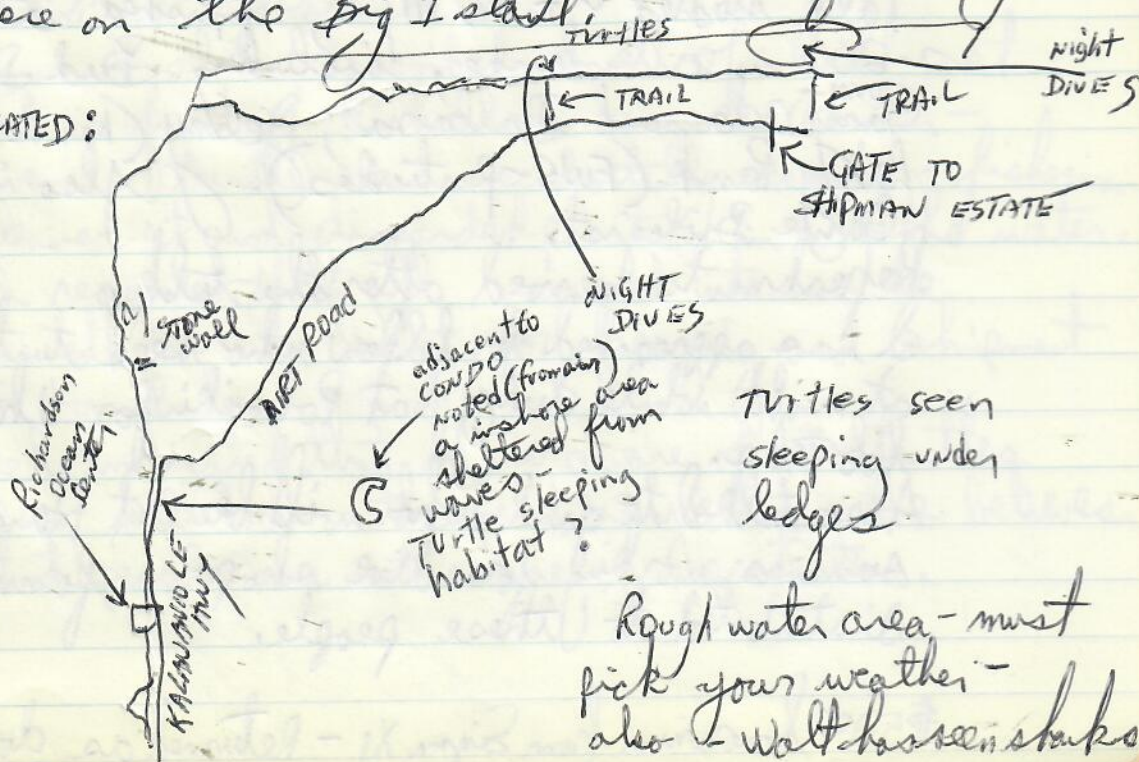
WEDNESDAY 16 APRIL 1980 - BIG ISLAND LECTURE

Depart for Hilo at ~ 3 PM - Hawaiian Air direct flight for U-H Hilo - MOP - Dept Oceanography & Geology lecture arranged by Walt Dudley. Arrive ~ 3:40 - picked up by Walt at ~ 4:10 PM.

Visited auditorium of theatre and main office -

Met Cuellar Orlando ^{- VISITING INVESTIGATOR -} from University of Utah - knows Harold Hirth. Studying lizards - geckos to shed light on migration patterns - "closeness" of populations on various Hawaiian and other Pacific islands. "Acceptance" rate (%). He has been doing a lot of diving here on the Big Island.

AS
INDICATED:



16 APRIL 1980 WEDNESDAY

Turtles have also been seen at night while diving at "sharks" surfing area - Isaac Hale Co. Beach to Kala Pt - Pohoiki area in Puna District.

Check in to Hilobogoon Hotel - picked up by Walt at ~ 5:45 for dinner at his condominium home on Hilobogoon - wife Kamila - part Algerian - met her in Paris during one year study (Post-Doc?) tour. Raised in Arab style - youngest of 13.
Left for theatre at ~ 7 PM. Pat at OMAP was able to bring extension cord for projector.
Talk started ~ 7:40 PM, finished at ~ 8:55 PM
~ 200 in attendance, including Bud Doty & wife; Gary Oda, and Barbara; Jerry (Kam's friend); Larry Park (FWS - pesticides). Also State Fish & Game Biologist.

Refreshments served after the talk.

I was approached by fellow who sees turtles sleeping at night while diving at Pohoiki for Uhu and lobsters.

Also talked to girl who will be at Hanalei this summer working for dive shop - forms were distributed to Uthese people.

\$50.00 honorarium from Sigma Xi - returned as donation.

16 APRIL 1980 WEDNESDAY

Refreshments at KK TEI with Howard Tokata, Walt Dudley and Del Dykes. Del recently went sport fishing in Florida - He has relatives at Islamorada - ~~he~~ knew Bob Schroeder and Jack Randal. I gave Howard a copy of the stamp proposal letter - also one to Walt.

Howard mentioned that fishermen friends regularly go 5-7 miles out of Hilo "Ikeshebe" fishing. Lights in the water at night. Shrimp and other animals are attracted - they also see and scoop net ~ 8-10" turtles but don't usually bring them back. They almost brought one back for Mr. Kimura's pond. Howard will make additional inquiries.

Howard also described case of gill net set in front of Richardson ocean center - juvenile turtle was accidentally caught - fisherman released it and discarded plastron in bath water.

I requested that all recovered items be turned over to Walt for freezing and shipment to Honolulu.

Del indicated that he is aware of 3 turtles being killed over the past 2-3 years. He believes that people are not aware of protection.

17 APRIL 1980 THURSDAY
(10 years in Hawaii)

Met Larry Pank at 7:30 for breakfast discussion of FWSO Tripartite commitments - Progress in turtle work. Went over degree of progress for each of the "objectives" he had abstracted from my Appendix in Triparty agreement. Larry believes that tagging of Monk Seal should have continued, instead of being terminated by Sakora because of ~~the~~ "disturbance". Also, the reason Ben didn't write up results is because he was looking forward to "contracts" during retirement. Concerned about what Dale fears of his inquiries - seemed to be false praise of Dale.

At ~9:45 Larry took me to UH campus - proceeded to Walt's office. Discussed possible interaction with my work and Hilo MOP. Concerning Hilo MOP - higher academic standards will be required - greater autonomy from Manoa - They have 14' & notes & Scuba/camping gear.

Reviewed Jacque Cousteau film - "The Green Sea Turtle" - noted sentence: "except for the hatchlings that come out at night when frigates are roosting..." Also hawksbill shown in opening scene behind movie's title. Plea is made at the end to farm turtles.
"4,000,000 hatchlings produced per year".

C-F(?) camouflage plane at Hilo airport -
believed to be HANG - consider use
for coastal surveys of turtles.

Good footage of hatchling swimming underwater
and surfacing to breathe. - frigatebird takes
him. Shows nest emergence during the
day - but staged.

Send to Waft -

- 1.) Symposium paper
- 2.) Duplicated slides of sea turtle
species found in Hawaii
- 3.)ritchard's book advertisement

Punchy (R.) Kim's address:
170, Wiwoole st.
Hilo, Hawaii 96720

Depart HAIR ~ 1:10 PM direct to
Honolulu; Arrive ~ 1:55 PM.

Howard Takata mentioned that he had been
informed by visitors from mainland that
a seal had been observed at Punaluu.

9 MAY 1980
FRIDAY

Telephoned Howard Takata at
1-935-3830 concerning fisherman
who saw "small turtles" outside of
Hilo. Pat indicated that she is
doing a survey for Army Corps asking
what fishermen want in the way of
new docking-harbor facilities.

Information provided by "Silva Ah yee"
indicated that in March 2-2"
turtles were seen approximately
2 miles out - depth approx 30/F,
at "Opelu Bas" - popular place
to catch a kule. Shrimp are
seen on the surface in this area
using a night light.

Other fishermen use squid (Ikeshibe)
with a light underwater -
apparently fishing farther out -
Howard will make inquiries.

10-6-80

Mr. Hines 324-1295

Kobayashi's are now caretakers
 Kuikini Hwy to Jose's Restaurant - from Kailua
 go up sunset Drive - to the end, turn right on
 Marlin, turn at first left on Ono -
 turn at first driveway, to the right, concrete
 driveway - Hines is second house

check - HUGGOS

2

So. Seas Trading Post

Box 1351

KAILUA - KONA 96740 329-3911

Results - \$50. for large Solomon Is. turtle
 \$30. for Pitcairn Is "Christians" w/stick legs

Also Wesley Kane - PRINT of turtles

and Sign warning about shark at
 Honokahau harbor

14 OCT 80 Depart for Kona at 9:50, Hawaiian
 TUESDAY Airlines - 11 pieces of baggage
 total.

LAND in Kona ~ 10:45 AM. Full view photo taken
 of Kahoolawe with Alan Kam's camera enroute.

Rented a DOLLAR'S Toyota station wagon
 for \$14.25 + \$4.00 for insurance; loaded gear &
 Drove to Kailua-Kona. Visited for
 one-hour with Mr. Hines to obtain
 key for new gate. Kiholo Pond and nearly
 all adjacent land is state owned. Access
 road is through state property.

Before 1800's Lava flows, ponds were
 far more extensive - "Kiholo" village
 existed inland. Flows changed all of this.
 Hines used to catch turtles in
 channel-winding one to the Mauka side -
 only one at that time. Used to catch 4-5,
 put them in cave, then let them go.
 The sharks ever seen inside pond were
 small. Only occasionally was a larger
 (6-8') shark in outside Bay.

Alika Cooper not liked by some fishermen
 in Kailua-Kona. Cooper seen taking a
 turtle at Kiholo caught in a "surround" net.

New caretaker at Kiholo is
 Raymond Kokegashi & woman^{+ twins}.
 Owners at Kiholo includes H. Porteus,

Oct 14, 80

TUESDAY

Hines (5-6 owners in family), Patches Holt.
 According to Hines, a ~3000 yard
 set-back exists on coastal state land-
 conservation zone?

Need to consider this site for "sea turtle
 sanctuary" designation.

Proceeded to Foodland for bread, other supplies.
 Ate at McDonald's, got water at Perico - drove
 to Kiholo. Noted that gate-house at
 entrance to Kapukelu-kona village has
 telephone.

Transported all gear to same campsite
 used in March. Noted that use of
 Helicopter might be a good way to
 establish study camps. Gun shots frequently heard.

Laid 3-sections of net out - rope
 tied to rock ^{just} north of palm grove. Nets
 extend across pond and anchored on
 shallow sand bar at mouth of original
 pond entrance. Turtle caught shortly
 after net set out.

Rained while setting net, cleared
 thereafter. ~ 1/4 moon - sunset ~ 6 PM.
 Lot of stars, very little wind.

Checked about once an hour for the
 remainder of night - no more turtles?

① 14 Oct 1980 Tuesday 7:00 PM capture
KIHOLLO POND - NET

TAGS Held overnight - measurements taken AM 10/15

3476 LFL S - 51.4 x 41.2
S = 64.3

3477 Through
2nd scale

C - 54.4 x 48.7

PL - 42.3

HEAD - 7.9

TAIL - 10.7

WT - 42 lbs

Stomach sampled - saved - used vacuum flask -

Red ^{& green} alga on plastron -

Skin barnacles present

Right Hind flipper ~1/4 missing, but healed -
curled dorsally

healed

hole - indentataion in 2nd Central

Photos 1-2 ASA 64 - E2

15 OCTOBER 1980

WEDNESDAY

First light about 5:15 - 5:30 AM

Hot with very little wind all day.

1-2 turtles periodically seen inside pond, but no captures.

Water in pond is very clear - good underwater visibility.

High tide 9-10 AM. Only a single turtle seen in pond sluice gate region.

At mid-morning, Alan walked to end of pond - found 3 separate sites where turtle bones were present - probably predated over March trip.

At ~ 6 PM, after sunset, a toad capture was made - Mauba side of net. Within the next half hour, 3 more captures were made. All while a small amount of light still in the sky.

At 4:00 AM an eagle ray was found in net - used bag stick and removed it. Barbs removed and retained.

All four turtles held overnight and measured 10/16 AM

②

15 October

net capture - Pond ~ 6 PM

TAG Recovery

Wednesday

S - 46.0 x 37.2
 3/21/80 - 42.9

33/6

3315 RFL

telephone # still
 here

C - 49.0 x 44

PL - 37.5

HEAD - 7.7

TAIL - 9.5

WT - 36 lbs

STOMACH SAMPLED, SPINE RIDGE SHOWS UP ON CONTRAST
 PLATES, RED ALGAE ON TAGS

Medium amount of red & green algae on
 plastion - no skin barnacles,

10/17 ~ 5:30 Recaptured in net - held overnight

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③ 15 OCTOBER 1980 net capture - Pond ~ 6:30 PM
TAG RECOVERY Wednesday

3320 S - 49.6 x 39.1
3/21/80 - - 47.6

C - 52.9 x 46.5

3319

PL - 40.1 cm

Telephone #s

HEAD - 8.0

TAIL - 11.5

WT - 41 lbs

Skin barnacles

Pre central divided into two.

Green & red algae on plastron - medium white scum on portions of carapace

Small pieces missing from hind flippers - slightly ragged.

(4)

15 OCTOBER 1980

wednesday

net capture - Pond ~ 6:30pm

3478 LFL S - 58.5 x 43.0

3479 R^{2nd} scale

C - 61.6 x 53.7

3480 RFL

PL - 46.5

HEAD - 9.2

TAIL - 14cm

WT - 52lbs

Skin barnacles -

Red alga on skin

Green (not some red) algae on Plastron

4-5 burrowing barnacles removed from PL

Small healed hole through trailing edge

2nd lateral left - RHL - healed injury



~ Recaptured 10/17/80 Friday 1:30AM in net.

108 ⑤

15 OCT 1980

net capture - pond ~ 6:30 PM

Wednesday

348 LFL

S - 44.2 x 35.6

348 2 RFL

C - 47.6 x 41.3

PL - 35.1

HEAD - 7.1

TAIL - 7.5

WT - 2716g

RFL

~~healed cut~~ - through 1st large scale

- Noted small healed hole through end of LFL
- Stomach sampled
- 2-3 burrowing barnacles from plastron
- Skin barnacles
- Red and green algae on carapace - medium
- Photos # 3-4

16 OCTOBER 1980

Thursday

Measured and released turtles during the morning. - 11:30 AM departed for Kawaihae - ^{DLNR} Hapuna beach - is a white sand beach bordered rocky black cliffs. Danger (at times) swimming signs - strong currents.

Proceeded to DOI, Parks Service - Puukohala Heau. on to Spencer Park where I talked to

Therese Hoy
 Army vessel PAGE unloading trucks at Kawaihae Harbor.
 Returned to Kiholo ~ 4 PM, visitors were swimming in pond area. Alan caught two turtles in net, one at 2 PM, one at 3 PM. Tagged and released - see following pages

[- DATA AND NARRATIVE CONTINUED IN
 SECOND GRAY BOOK - P. 14 -]

⑥

16 October 1980 2:00 PM 2nd Net on rocks, center channel
move in to pond

3485RZ (S) 46.0 x 36.6

(C) 48.5 x 44.0

3486 PL - 37.2

L 2nd scale HEAD - 7.8

TAIL: 10.5

WEIGHT: 32 lbs.

- Skin barnacles
- Red & green algae on plastron & skin

scum

Released 5 PM
Swam back into net - untangled and
released again.

⑦

16 October 1980 300 PM 2nd Net on rocks, center channel
probably moving out of pond

3483RFL

S - 39.6 x 34.0

3484 LFL through 2nd large scale

C - 42.4 x 39.9

PL - 31.5

HEAD - 6.6

TAIL - 7.2

WEIGHT: 21 lbs.

Red & green algae on plastron, &
skin of ventral flippers & neck.

Scum on parapace

A few skin barnacles

Photos # 5-6-7

Released 4:30 PM

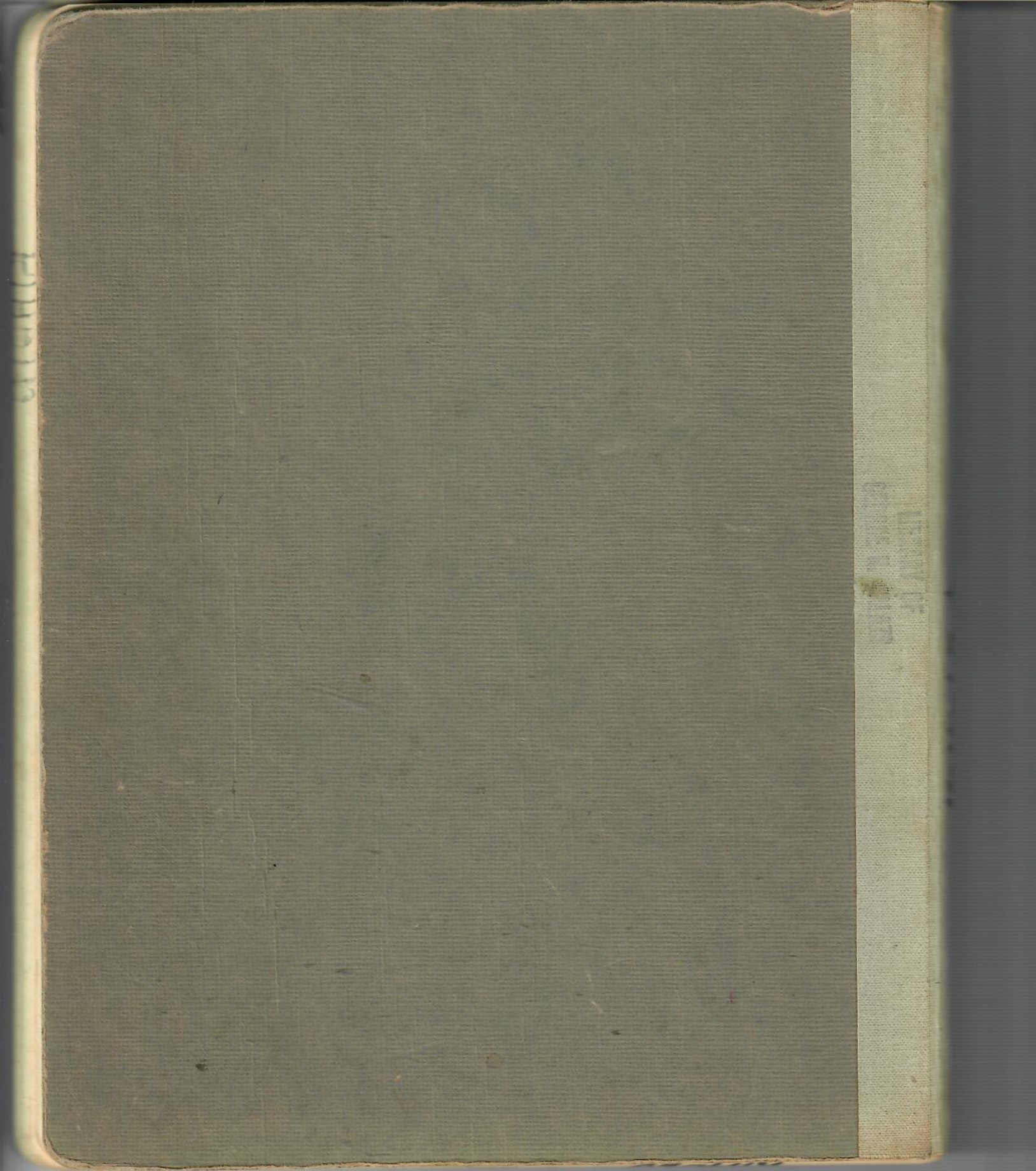
PHOTO LOG

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Dates	ROLL	SUBJECTS
9/2/78 KAU	ASA 25 (already other son) 1 EL	net in water at kaalaulu; Howard/Kam weighing turtle; turtles # 2510, 2588. LAST on roll by Jeanette.
9/3/78 KAU	ASA 64 → 2 EL	Hike into Kamehame - Muddy water area, Mangui Creek, Kamehame Black sand beach, nesting site with Howard. Coast from top of Hill # 19. 9/4/78 # 20-27 Hale Lake and Horse shoe at low tide; 9/5-2927
9/5/78 ASA 200	3 NIKONOS	<u>Pterocladia</u> at kaalaulu; net floating at surface.
9/5/78 ASA 25	4 F	Turtles captured by kaalaulu - 2930, 2932 dog in kaalaulu house; view of bay while walking up the hill.
9/23-26/80	BIG ISLAND VACATION - see narrative	
9/28-3/23/80	KIHOLO - see narrative	
9/14-20/80	KIHOLO - see narrative (one roll ASA 64)	

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