

KIHOLO/HPA
LIBRARY OF
GEORGE H. BALAZS

BALAZS
1987-1988

DAVID GULKO - home 885-4139

HPA - 885-7321

HAWAII PREPARATORY ACADEMY
P.O. Box 478
KAMUELA, HI
96743

MR. HIND - 329-8981

PETE HENDRICKS
- KOHALA DIVERS - 882-7774

TIME OF DAY .. 983-3211

WH6BLQ
George H. Balazs
992-A Awaawaanoa Place
Honolulu, HI 96825

SUMMARY OF
TAGGING AND
RECOVERIES
TAGS
KITOLO HPA #1-4
P. 84-88

AIRLINES

HAWAIIAN - 537-5100 (OAHU)
BIG IS. - 935-0811

ALOHA - 836-1111 (OAHU)
BIG IS. - 935-5771



COMPOSITION BOOK • 9¾ IN. x 7½ IN.

AVAILABLE AS:

VM COMPUTER NO.	B&P STOCK NO.	SHEETS	RULING
09-9130	13534	60	COLLEGE RULED & MARGIN
09-9132	13535	60	COLLEGE RULED & MARGIN & PAGED
09-9134	-	100	COLLEGE RULED & MARGIN

BOORUM & PEASE CO. ELIZABETH, N.J. 07208

MADE IN U.S.A.

"ECOLOGICAL ASPECTS OF IMMATURE
GREEN TURTLES AT KITOLO BAY, HAWAII"

LIBRARY OF
GEORGE H. BALAZS

"HORSESHOE" AT PUNALOU, KAU, =

LAUPAPA OHUA (VIA PELE HANOA)

Bob Nishimoto - 961-7501

A. Howard - 928-8156

Hilo MOP - 961-9544

Rolley Jim =

Harpor - 969-1478

MANAGER - (Elmer)

Hilo Docare - 961-7291

HOTLINE
548-5918
EXT. 5469

Gil Martin - Home 261-2232

G. GOMES - 395-5226

E. KURLANSKI 885-6555

(ANN & PENNY) - Home 325-1007

(Victor Linnacher - work 329-1311

MARY PANG - 395-7114 723 Pihoni St.

Sheryl Matsumoto -

Corby (Clair) Kirk - (WFW) 959-3888
work - 959-3331

DAVID WHITE NECK HPA Teacher

MATT HUGHES "

#0 PLANNING TRIP - 26 AUG. 87 p. 5-12

HPA #1 - (6 captures, ^{including 1 longterm}) 21-23 OCT. 87 p. 15-31

HPA #2 - (13 captures, ^{including 2 longterm}) 10-12 FEB 88 p. 33-65

HPA #3 (10 captures, ^{including 2 longterm}) 27-29 APRIL 88 p. 66-93

HPA #4 (11 captures, ^{including 7 longterm}) 28-30 JUNE 88 p. 93-97;

HPA #5 (SEE Book No. 2) 26-28 OCT 88 p. 110+

MAUNA LANI TAGGING (3) 10,551 - 10,559

Shipped 2/8/88 TO HPA

Box# U

- ① - Red float net, 2 fin, 1 tarp, 1 blue PAIR OLD boots
- ② - Black bag - DIVE GEAR
- ③ - old shoes, ~~old shoes~~ CHOY DIVE BELT + KNIFE 3-tent
- ④ Red cooler scal. Bernm; med. kit; STOMACH PUMPING
- ④ - SLEEPING BAGS +
- ⑤ - 10 X 100' net (red floats)
- ⑥ - 1-50' line; 2 Shockeels
- ⑥ - 10 X 100' (red floats)
3-50' line.

112

Box#

- ⑦ - 1-75' wood float net
1-Danforth anchor
• 1 rebay anchor 4 floats
1-40' line
- ⑧ - 1-75' wood float net
tackle box + red box
- Blue Tarp

No heads spotted in the Bay, BUT 3 SMALL SEEN IN LARGE POND

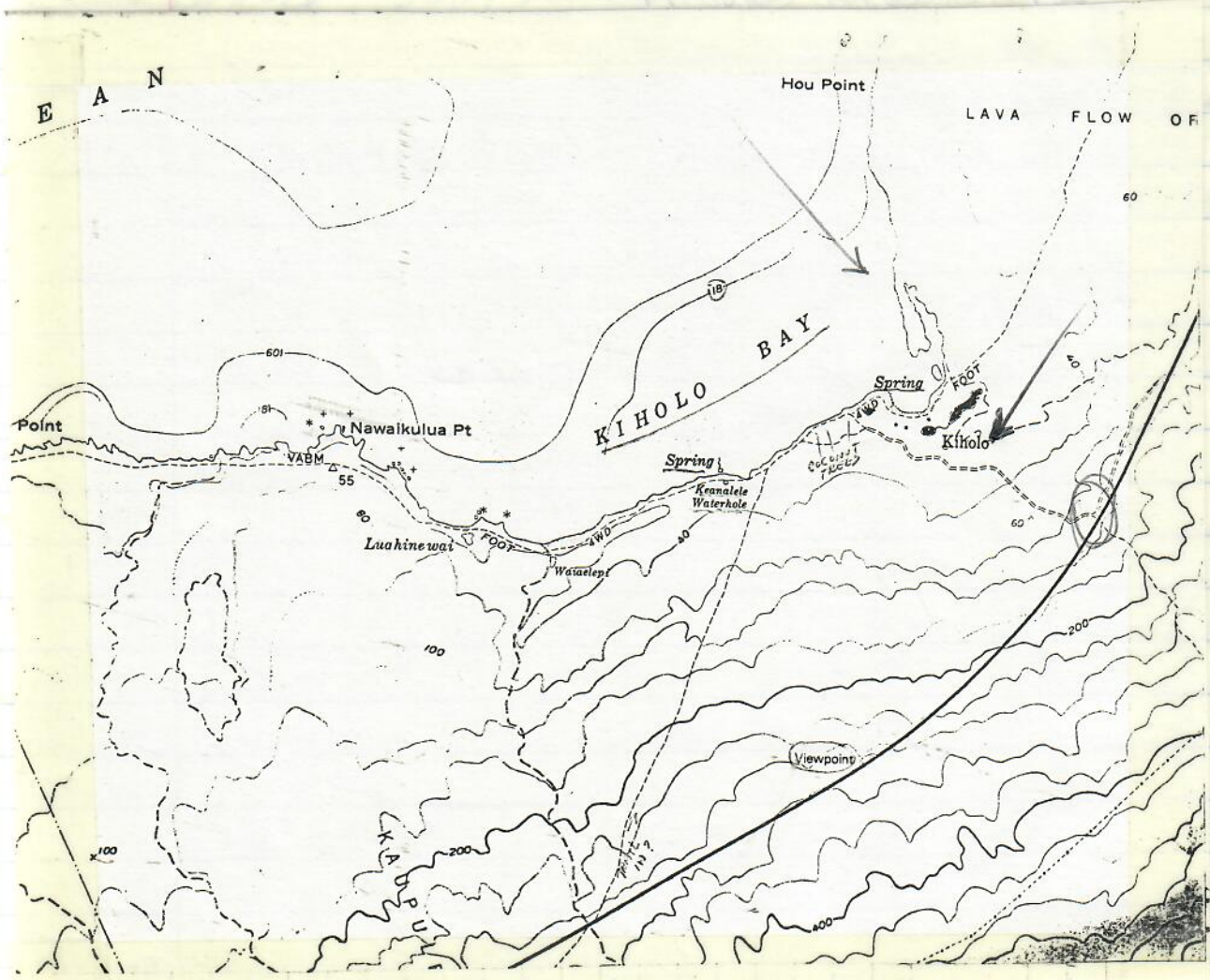
TUESDAY

NOON 3:45 PM w/ Juice
AUGUST 87



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

PORTS	Hrs. Mins.	PORTS	Hrs. Mins.
HANAIE BAY, KAUAI	-1 40	KALINAKAKAI, MOLOKAI	-0 09
NAWILIWILI BAY, KAUAI	-0 32	KAHULULU, MAUI	-1 48
PORT ALLEN, KAUAI	-0 32	KIHEI, MAALAE BAY, MAUI	-0 14
HALEIWA, OAHU	-1 36	HILO, HAWAII	-0 59
HANALEI BAY, OAHU	-0 55	HONOLULU, HAWAII	-0 24
KANEHE BAY, OAHU	-1 35	MAHUKOHA, HAWAII	-0 54
LAIE, OAHU	-1 48	KEALEKUA BAY, HAWAII	-0 16
WAIKANE, OAHU	-0 16		
WAIMANALO, OAHU	-1 15		



IS THERE STILL A KIMLO CREATOR?

* Pete Hendricks also

Send to David/Mark

- "Project (Research)" info

* sent Sea turtle brochure

* sent - Size of tubes

* - Shark attack list

- Receipts

Wood = 34"

11" = FLAT TUBE WIDTH

24" diameter INSIDE TUBE

" TRUCK TUBE HEAT RESISTANT"
10.00 x 22

" LET'S GO STORE DIVE N "

A NEW DIVE-GUIDE

(need to purchase)

Leptospirosis IN POND?

- HAND-OUT FOR VISITORS
- Straps for restrainers

7
Planning Meeting for HPA/Kitulo Project.

26 AUGUST 87

WED.

Depart Prunerville 6:15 AM
for Kamuela \$30.95. My car
to airport. 2 hour trip 7:20 AM
arrival - met by David Gulko
in HPA school bus. Ate and
talked at Ginamon Roll/Coffee shop.
Met Mark Rice at his HPA
office - not teaching this year - is
in administration.

Discussed dates and format for field
projects - 3 trips between start
and end of school year - Sept - end April.
Weekdays much preferable.

FIRST EXPEDITION Wed 21st, THURS 22
FRIDAY 23rd October.

→ Second & Third ~~Feb 10-11-12~~ RD 3rd ^{TIDES} January or
1st or 2nd wk February ^{NO GOOD}

NEED
TIDE
CALENDAR

Pacific
Trade
Group
671-6735
Long's DRUGS

→ 1 or 2nd ^{APRIL 13-14-15} wk April or less preferable
last wk of April - but note
Kunalum MOP project.

Need dates to HIND for permit.

Also - possible 25 min ^{9-12th GRADE} lecture (Chapel)
Need on DEC. 2nd Wed. +
SCUBA DIVE AT PUAKO

26 Aug
Wed

- Bulk of project money - Small dice
lights
- Hoods
 - Wet suits 3 (off the shelf)
 - Lantern
 - Coleman fuel
 - Tubes, anchors, chain, line (3/16)? 1/8"
 - Mosquito repellent
 - Battery
 - EXTRA nighttime food
 - ~~GSA~~ AA-cells [all buy]
 - 2 HPA SIGNS for research site
("TURTLE RESEARCH") sent NOAA decals
 - BOARDS TO PATCH WOOD BRIDGE
~ 1" x 6" x 4" + NAILS & HAMMER.
 - Take anchors and sticks

Rotate same students after 1st Night?
- Water containers

Need - FORMAL NAME OF PROJECT -
+ ACRONYM

- CLEAN-UP Rubbish and remove
- Headache medicine / cotylenol / Tylenol
- Hazard of coconuts falling.
- Insect spray
- Medicine kit in tile cabinet

26 AUG 87

Wed. Special student projects possible:

- PHOTO JOURNALISM
- ALGAE ID
- TURTLES IN PONDS
- Mend nets
- Parasite screening (w/marty Fast)

Met Jim Rizzuto & wife Shirley ^{sent}
 Jerry Ludwigs - teacher

Ate lunch at school cafeteria -
 elegant view!
 Picked up key at Parker Ranch office

Drove in school bus with Dave to
 Pete Henricks KOHALA Divers
 shop in shopping center at
 Kawaihae Harbor. Saw aerial
 photo views of dive site - Kawaihae
 breakwater - reef offshore
 and Puako (#2 I believe) -
 shore dive, - deep hole 35-40'
 right after entrance.

Drove from harbor to Mauna Lani
 Hotel. Dave told me about
 Manta Ray watching in a bay
 near MAUNA KEA BEACH HOTEL.
 Lights have been installed for this
 purpose. Attracts plankton too?

26 AUG 87

Wed.

At Mauna Lani we searched for and finally found the remaining one of three turtles with graft marks that had been sent for loan and rearing. This last one was raised from a hatchling at the Waikiki Aquarium - graft having been done here by Gail Pietersen or (?)

Date _____

Tags _____

Turtle was in cement-lined pool mostly under cover of hotel - north side. Algae - Ulva (?) in pool - but not growing - picked and put in, presumably. Turtle looked and acted healthy, but seemed too small in contrast to the size I thought it would be. Seems too shaded in this area. 2 size #1 and 1 #681 tags believed to have been seen.

Proceeded to Kiholo dirt road, turn off and drove down opening of same heavy-duty cattle gates (2). Road has been altered at the end. No longer leads to Mrs. Danon's house - stone wall.

26 AUG 86 Instead of lead to a light gate
Wed. (open) and Hind's house - bridge
going over pond. people at house.
Tide seemed about $\frac{1}{2}$ up.
Sluice gate (Makaha) not in place, \therefore
no screening to keep things in or out.
Most things appear unchanged since last
visit (made with A. Kam) 2 years ago.
Signs had been put up leading out
to the open-ocean "pond", but
they were broken and unreadable.
Distant campsite have heavy vegetative
growth. Rubbish mainly in between rocks
of flow. Need to orchestrate
clean-up. Two picknicks
on sand point, plus one swimmer
seen earlier hiking. Fresh(?)
white paint (spots on lava).
Watched bay and pond entrance
for awhile, but nothing seen.
Had binoculars.
Walked back to ponds and
watched shallow one to the north
of bridge. Duck seen.
Also, up to 3 small (< 16")
turtles. Did they swim in
on their own?? seems doubtful.
If put in there, how and
where were they caught?

~ 3:30pm

26 AUG 87 Need someone to watch ponds
Wed. during the daytime to determine
presence and numbers.

Should they be caught and
tagged? How? Snorkel at
night? Could pond water
have leptospirosis?

note - Dave said HWS didn't
want anyone in the ponds.

Departed Kiholo ~ 4 pm after
spending ~ 1 hour there. Drove
to Keahole Airport, to depart
on 5 pm Aloha flight #44.95.

Dave mentioned Barbara Lee works
at Nat. Energy Lab. Also, barges
laying OTEC pipes could be
seen near shore. This
site is very good spectacular
diving, sheer drop to great
depths. He knows of shore
entry, but currents can be
strong.

	wed	FL 90	DEPART	DEPART	ARRIVE
ALOHA-210	OCT			10:55 AM	11:28 AM
	23 OCT	FL 97		4:35 PM	
	FRIDAY				

- RSBT-
 3-AA
 Light?
 → Check
 GSA BAG
 Small tubes
 formalin
- BANG STICK camera/flash/film
 - SIDE CUTTERS
 - LINE for (clothes) anchors line
 - LIGHT Neon (same as?)
 - Buy propane in Hilo (MOP?)
 - FOLDING CHAIRS?
- X cloth to cover anchors in Tube
 → BINOCULARS → NOAA CAP → MILEAGE PLUS → HOME
 → PROpane torch from HOME
 → TAGS → STOMACH TUBES → LINDA
 - AIR MATTRESS
 - SLEEPING BAG
- 2 Tubes + 7-8 floats
- #1
 (1) box - large box (2) - 10' x 60' 12' worth + 12 chain
 - Bedding for Robert
- #2
 (2) 9' x 74' cylinder
 7' x 80' Han + oval floats
 22' worth + chain
 2 Swivels
 2 lengths of rope
- #3
 (3) 6' x 78'
 5' x 60'
 2 Swivels
 4 lengths of rope
 2 length short - jock lines
- #4
 (4) 8' x 60'
 2 coral anchors + chain
 - 1 TARP
 - Rope + JACK lines
 - TENT
- Red cooler
 - FIRST AID
 - T.P.
 ICE CHEST
 SPRAY
 - PAINT
 - TAG PLIERS
 - CB RADIO
 - TOOLS
 - Handouts TO TOURISTS +

KIHLOLO #1 TRIP H.P.A.

21-23 OCT. 87

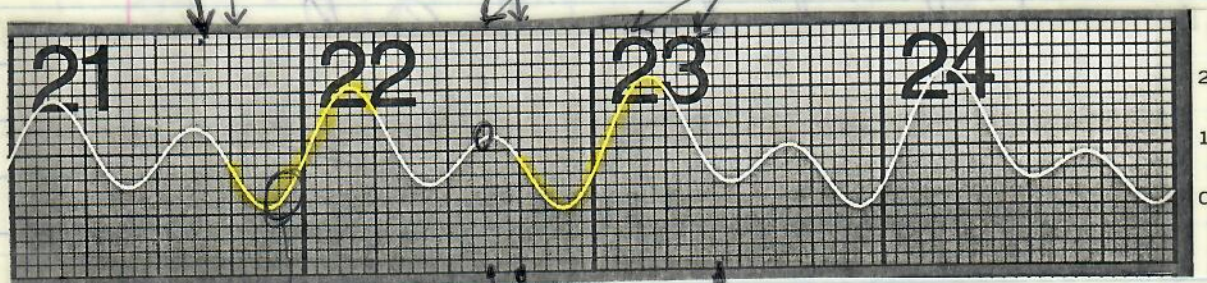
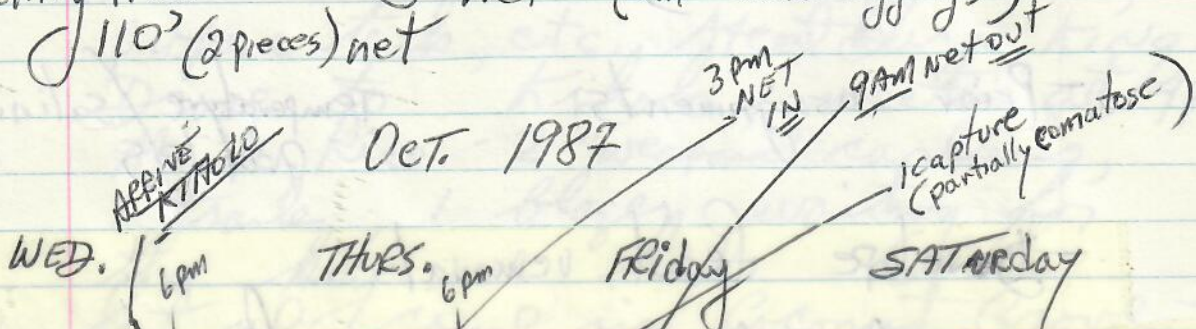
4:30 PM 11pm

6 Total captures

18 hours netting time

3 hand (1 long term recap)
3 net (all new taggings)

110' (2 pieces) net



Snorkel pond - 3 captures (1 a recovery)

1 capture 1 capture

DEPART KIHLOLO

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

PORTS	Hrs. Mins.	PORTS	Hrs. Mins.
HANAIEI BAY, KAUAI	-1 40	KAUNAKAKAI, MOLOKAI	-0 09
HAWILIWILI 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
KANEHOHE 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		

MOON PHASES

FULL MOON OCT 6	LAST QUARTER OCT 14
NEW MOON OCT 22	FIRST QUARTER OCT 29

Possibly Responsible for low net-catches?

- Letter to Hind ✓
- Photo: JANA + turtle, Group
- List of student participants ✓
- ✓ - More chairs
- Prior assignments Temperature / salinity profiles
- Develop fecal removal
- ✓ - Data form to tape into book.

OCT 21, 87 Depart Aloha 10:55am w/R.F.
 WEDNESDAY for Kiholo HPA trip No. 1.
 Marty Fast arrived in Kona before us.
 Met by David Gulko in Parker
 School van/bus. HPA we broke down.
 This one wouldn't start (Hot coil?).
 Waited for station wagon replacement -
 Drove into Kailua to buy stove,
 propane tank, etc. Great Burger King.
 Drove to Kiholo, meeting at 4pm
 Mark Rice - 2 "weapons" campers,
 1 trailer, 1 blaze waiting for
 the key we had.
 Set up camp in Coconut Grove -
 2 "carpenters" + women in house.
 Decided not to put out nets -
 today - heavy overcast &
 drizzling rain.
 Ribs and chicken BBQ dinner.
 At 10pm nearly everyone
 snorkeled pond to catch turtles.
 Believed to be 16-17 students,
 6 adults. Robt & I at the
 lead - low tide. Three turtles
 caught total - 3-5 others seen -
 mostly believed to be small.
 No other campers, nets, etc.
 However contractor said that
 yesterday there were gill nets all
 over in the bay. (go to P. 22)

Wednesday #1

10/21/87 2230 Handcapture (G+B)
 TAG recapture L-7779 R-7778 red coralline algae &
 PL - 47.9 red fleshy algae
 H - 9.6
 SC - 60.6 X 49.1 N - 60.5
 CC - 65.0 X 60.5

FECAL SWABS TAKEN - Not much

Tried to get blood - no luck

New

8701 - RF between 3rd & 4th

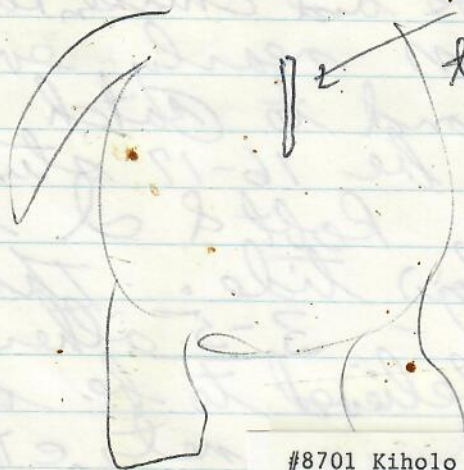
Stomach sample taken

skin barnacles

Painted #1

blue + outline w/ BIK & red pen

[Head/Body in hole just a short distance after we started out.]



cut in plastron
 through scute,
 scapan coral
 or sharp rock?

#8701 Kiholo 10/87

Valonia aegagropila
Gelidium pusillum
Oscillatoria subtilissima
Polysiphonia tenuis

80%
 20
 Trace
 Trace

wednesday [#]2

10/21/87 Handcapture
~ 10:45pm

Brian grabbed under ledge
Rog & I passed it over it.

LF-8702

RF-8703

PI-34.2

H- 7.1

T- 8.1

SC- 43.4 X 34.8

N- 42.9

CC- 46.0 X 41.0

FECAL SWAB TAKEN - Not much

Several skin barnacles

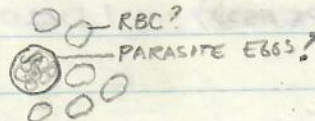
Tried to give enema - didn't work

Stomach sample taken

Blood SAMPLE TAKEN - 290 for parasite eggs

PAINTED #2

SPIN BLOOD SAMPLE 5 MIN - RBC - APPERIC ABNORMAL; EGGS
LARGER THAN RBC



DENSITY: 1 FIELD = HUNDREDS
OF EGGS

450x

#8702 Kiholo 10/87

Gelidium pusillum
Ulva fasciata

90%
10

Wednesday

(3)

10/21/87 - HANDCAPTURE (GHB)

~ 11am - 3/4 way into pond - sideways under led
in warm seawater zone

8704 - LF

8705 - ~~LF~~ Between 3rd & 4th

PI - 43.7

8706 - RF

- 8.7

SC - 55.0 x 43.0

N - 54.7

CC - 58.5 x 50.0

T - 9.5

Painted #3

Blood SAMPLE TAKEN ^{+2% FORMALYN} for MF parasite egg

FECAL SAMPLE TAKEN - Not much

STOMACH SAMPLE TAKEN

Skin Barnacles

Circular swirls to carapace

Skin Barns heavy on pelvic region.

Painted blue #3

BLOOD

DENSITY: 1 FIELD = 3 EGGS.

○ - RBC

● - EGG?

FELM - NEGATIVE

#8704 Kiholo Kill 10/87

Gelidium pusillum
Terrestrial plant material100%
Trace

22

OCT.

21 Wednesday

87

Turtles left in tubes covered with tarp all night. Steady light rain almost all night. TO bed ~ 12:30 following snorkel.

OCT.

22 THURSDAY

87

UP ~ 7am - light breakfast. Started collecting data on turtles at 8:30am - required about 2 hours. Everyone watched or helped. Turtles released off the bay side of rocky island. Students required to study for 2 hours.

2 Nets - 60' each red floats assembled at small beach - one coiled into tube; one laced on net-stick.

Danforth + 2-50' lines together and chain set on sand bank - peninsula side had 1-50' + chain and rebar wrapped around boulders.

At 3:45 pm, as we were swimming back a turtle was caught in the net.

(continued page 27)

NEITHER PAIR OF PLIERS LOCKING AS WELL AS THEY SHOULD - TAGS needed to be secured w/ reg. pliers.

10/22
#2

6:00 P.M.

5 45.3

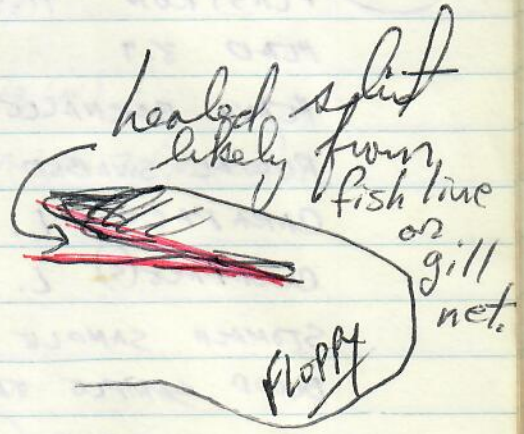
Notch 44.9

PLASTRON 36.6

HEAD 7.1

TAIL 8.0

Left hind



CARAPACE L 47.5
CURVED W 42.0

NEW TAG L. 8707 R. 8708

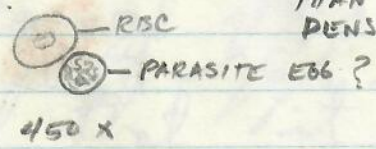
BLOOD SAMPLE COLLECTED

RECTAL SWABS -

STOMACH SAMPLE TAKEN

BARNACLES AROUND TAIL REGION

BLOOD - RBC APPEAR NORMAL, OTHER SPHERICAL STRUCTURES SMALLER THAN RBC
DENSITY: 1 FIELD = 7 EGGS.



FECAL - RBC.

#8707 Kiholo Kill 10/87	
<u>Gelidium pusillum</u>	99%
<u>Jania capillacea</u>	1
<u>Oscillatoria subtilissima</u>	Trace
<u>Ceramium sp.</u>	Trace
<u>Herposiphonia nuda</u>	Trace
<u>Dictyota friabilis</u>	Trace
Black sand	

- 24 - LEAN - TO W/ TARP TO BLOCK SUN
 - Use Binoculars/work as a team.

Thursday

#1 3:45 P.M. 10-22-87

PLASTRON 41.4

HEAD 8.9

HEAVY BARNACLE INFESTATION AROUND PELVIC AREA

RECTAL SWABED

CARAPACE L. 56 W 50 (CURVED)

CARAPACE(S) L. 52.7 L. 52.4 (NOTCH)

STOMACH SAMPLE TAKEN

BLOOD SAMPLE TAKEN

TAGS 8709 (L) 8710 (R)
8711 (L) 3-4

TAIL II

BARNACLES BURKWOOD INTO PLASTRON (COLLECTED)

BLOOD

DENSITY! 1 FIELD = 20 EGGS



1

#8709 Kiholo Kill 10/87

Gelidium pusillum	98%
Dictyota friabilis	1
Sponge	1
Black sand	

Stressed from forced submersions.
 #3 3:20 A.M. 10-23-87 FRIDAY
~~PLASTRON~~

HEAD 7.5

CARAPACE (CURVED) 48.0 (L), 43 (W)

CARAPACE (STRAIGHT) 45.1 (L), 36.4 (W), 44.7 (NOTCH)

PLASTRON 36.5 (L)

TAIL 8.5

TAGS 8712 (L) 8713 (R)

BARNAcles BURROWED INTO PLASTRON

No stomach pump or blood
 (or swab) due to stress.

Caught near ray -

Both removed by Robert following
 delay caused by tubes drifting
 away with high tide. Robert
 reported that it breathed as
 soon as up. Held in
 tube on belly until ~ 9 AM
 next morning when it was
 tagged and released. Flippers
 flapped when I held it up fore
 and aft.

~~sent literature~~

MOP HILO

Kimber Alspach - 964-5826 (home)

Brian Juffey - Attended Mop Puuvaluu
trip 3/86

22 Oct. THURSDAY
1987

A second turtle was caught at ~ 6 pm. Severe injury (healed) to hind flipper - "V" cut possibly from fish line or gill net entanglement. (base of net)

Another capture (presumably turtle) sometime between 9-10 pm, but it got out before I could get there - checked it anyway and found a small Eagle ray in opposite end of net. Throughout the night we had 4 rays - 3 removed by me, one by Robert with #3 turtle that had been forced down. 20-30 min. delay in getting this turtle due to tubes drifting off.

Third turtle caught ~ 3:25 am Robert's shift, but I went out there to site to back-up if needed.

23 Oct
87

Sun up ~ 6:30^{AM} (check newspapers)

Morning thereafter spent

23 Oct. 87

FRIDAY

tagging, blood sampling, and
 stretching pumping 2 of the 3 turtles
 lengthly procedure involved
 shade needed + clean area
 for both researcher and turtles

Camp disassembled and depart
 about 11 AM. Some students
 have sports practice this
 afternoon.

No time available for
 extra projects that we had
 discussed - depart Aloha
 12 noon, arrive back in Honolulu
 12:30 am, picked up by
 Michelle in Bill's truck.

74

885-4139 home

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

KIHOLEO, HAWAII, GREEN TURTLE
TAGGING STUDY

TAG Summary 1987

VIAL/TAG NO	DATE	WIND DIRECTION	WIND SPEED	METHOD
8701 (11/15)	10/21	3/4 E	60.6	HAND
8702	10/21		43.4	HAND
8704/06	10/21		55.0	HAND
8707	10/22		47.5 (curved)	NET
8701	10/22		52.7	NET

Samples to ~~Dr.~~ Russell 10/27/87 for
G. BALAZS

DEPARTMENT OF FISHERIES AND
MARINE LABORATORY
2005 KALE STREET
HONOLULU HI 96822-2200

note - 8712, 8713 - no stomach sample taken

31

KIHULO, HAWAII, GREEN TURTLE
TAGGING STUDY
21-23 OCT. 1987

STOMACH PUMP SAMPLES

<u>VIAL/TAG NO</u>	<u>DATE</u>	<u>STRAIGHT CARAPACE LENGTH, CM</u>	<u>CAPTURE METHOD</u>
8701 (7778, 79)	10/21	3 YR TAG Recapture 60.6	HAND
8702	10/21	43.4	HAND
8704-06	10/21	55.0	HAND
8707	10/22	47.5 (curved)	NET
8709	10/22	52.7	NET

Samples to Dr. Russell 10/27/87 from
G. BALAZS

SOUTHWEST FISHERIES CNTR
HONOLULU LABORATORY
2570 DOLE STREET
HONOLULU HI 96822-2396

note - 8712, 8713 - no stomach sample taken

Obituaries



1964 Photo

Robert L. Hind Jr.

'Bobby' Hind, Kona rancher, legislator, dies

KEALAKEKUA, Hawaii — Robert "Bobby" L. Hind Jr., 66, of Kailua-Kona, a retired cattle rancher, died Wednesday in Kona Hospital.

Mr. Hind managed the Puuwaa-waa Ranch, where he was raised, and the McCandless Ranch. He was founder and owner of the Daleico Ranch. He also founded Mauna Loa Broadcasting, now KKON radio.

From 1948 to 1956 he was a representative in the territorial Legislature. He also served as a regent of the University of Hawaii and as a trustee of the University of Hawaii Foundation. He was active in numerous community and service organizations.

Mr. Hind was educated at Punahou School, Menlo College and Stanford University.

A graveside service will be at 11 a.m. tomorrow at the Christ Church (Episcopal).

Mr. Hind was born in Honolulu.

He is survived by his wife, Florence; three sons, Robert III, Michael and Francis; a daughter, Mrs. Billy (Jennifer) Mitchell; and nine grandchildren.

FEB. 1988

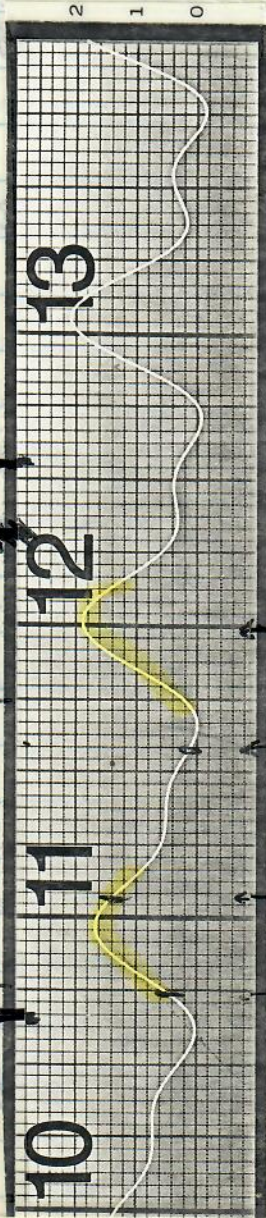
FRIDAY

THURS.

WED

6pm

6pm



float-wood nets
 7 hours
 fishing
 NET capture
 4 nets
 5 nets
 10-11-12-13
 8th & 9th captures

NET 100
 10 hours
 5 NETURES
 5 captures
 28-9pm
 2 HANDS
 2 captures

9 NET
 4 HAND
 13 TOTAL

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

PORTS	Hrs.	Mins.	PORTS	Hrs.	Mins.
HANALEI BAY, KAUAI	-1	28	KAHULUI, MAUI	-1	53
NAWILIWILI BAY, KAUAI	-0	27	KIHEI, MAALAE BAY, MAUI	-0	01
PORT ALLEN, KAUAI	-0	36	HILO, HAWAII	-0	04
HALEIWA, OAHU	-1	02	HONOLULO, HAWAII	-0	26
HANAUMA BAY, OAHU	-1	59	HONOKOHAU, HAWAII	-0	26
KANEHOHE BAY, OAHU	-1	46	MAHUKONA, HAWAII	-0	04
LAIE BAY, OAHU	-1	45	KAWAIIAE, HAWAII	-0	16
WAIANA E, OAHU	+0	20	KEALAKEKUA BAY, HAWAII	-0	02
WAIMANALO, OAHU	-1	15	MANELE, LANAI	+0	02
KAUNAKAKAI, MOLOKAI	-0	05			

MOON PHASES



H.P.A. #2 10-12 FEB. 88

WED. - FRIDAY

10 FEB 88 Depart FL 94 ALOHA w/ BARRY CHOY & G...
 WED 12:15 pm. + MARTY FAST AND H.S.G.

Student Sarah Fishman. \$43.95 REIMBURSEMENT

Picked up by Dave Gulko, Andre
 and Heather (Goat farm - CA for MILK).

TO Kiholo - many students
 already there.
 Set up tents.

Oval and cylinder wood-float nets
 joined together and set at
 lagoon entrance. Started on
 Coconut peninsula, side - set
 more away from shallow channel
 drop-off.

VERY cloudy - many fish bumped us.
 Night-snorkel w/ about 6-7 students
 2 captures - 1 large, 1 small.

Nets pinned up about 7am
 Easy to do from
 a tube. 4 net captures

2/11 Thursday morning under tarp - shade
 in Keawe tree.
 Pins taken off by students

NO RAYS CAUGHT THIS TRIP.

6 TOTAL

2/11/88
THURS.

about 2 pm -- easy to do.

Tina and I — Took temperature profiles in and out of lagoon.

Low tide during the day.

Mike Foster looked for benthic algae. Moderate surf rolling in outside of the bar — very turbid :: interfering with seeing algae.

5 turtles caught by net this night. Nets brought in by students at midnight.

Shovel w/ just 2-3 others. Caught 2. ∴ 7 total.

2/12/88
FRIDAY

Up 7 am for breakfast. GCB had fun skipping rocks, snorkeling, watching turtle sampling, using Radiotrack head sets ("TEAM 5"). But feeland skinned his legs. Collected data on turtles. Broke camp —

Departed Kona Airport ~ 3:15 pm
on ALOHA AIRLINES.

sent/ Dr. Mike Foster go HPA Sabatical -
send set of reprints from Moss Lab

"Needs" FOR KIMOLO HPA #3:

1. Carrying-case for wet-cell battery
2. Salinities
3. Photos of turtles
4. Algae abundance & distribution
5. Repeater frequencies
- * 6. Tide chart
7. Search for turtle bones
8. Another net-set further in.
- * 9. Cut lead from 100' nets.
10. Another net set further inside pond
11. Purchase a scale or two.

CAPTURE DATE:

TIME:

SITE:

2-11-88

1:20AM

METHOD: net

TAGS - 2

RFL; 8714

LFL; 8715

S - $\frac{\text{Length}}{42.4} \times \frac{\text{Width}}{32.9}$

S(notch) - 42.2

C - 44.5 x 39.0

HEAD - 6.9 cm

TAIL - 8.5 cm

RFF - 7.2 cm

PLastron - 34.9 cm

DESCRIPTIVE Remarks -

Full plastron, skin barnacles, red + green algae on the plastron. Gold colored carapace.

213 - 3195

18 lbs

25°C

NOT TRUSTWORTHY!

Bathroom Scale

Samples taken -

Blood - could not obtain

Stomach - ✓

Fecal - ✓

Epizootes -

TISSUE - N/A

#8714 Kiholo stomach 2/88

Gelidium pusillum	85%
Laurencia nidifica	10
Dictyota friabilis	5
Herposiphonia nuda	Trace
Oscillatoria subtilissima	Trace
One amphipod	

PELLET extruded when temp. probe inserted

#8714 Kiholo 2/88 FECAL

40%
40
20
Trace

Bryopsis sp.
Gelidium pusillum
Sponge
Diatoms

38 recent #1 green

Hand capture 6/28/88 pm

CAPTURE DATE/TIME: ^{previous tags} 870/8709/8711
TAG RECOVERY YES X NO

TAGS - RFL KITHOLO #4 LFL
TAGS OTHER SITES =

STRAIGHT ²¹ NOTCH LENGTH 54.0cm (10-22-87) 54 (552.7cm) WIDTH 42.6cm

CURVED 38 x 51

WEIGHT -

HEAD - 8.7

TAIL - 10

RFFlipper - 9.8cm

PLASTRON - 42.4

WEIGHT - 49.5 lbs.

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootes, etc.) =

870 - 30% algae covered (expanded)

8709 - 30% algae covered (expanded)

8711 - 3-4

Fluorescent green



Samples -

STOMACH -

BLOOD -

FECES -

TISSUE -

EPIZOITES -

CAPTURE DATE: 2/11/88 TIME: 12:15 AM SITE: Kiholo

METHOD: Net

TAGS - 2

RFL; 8716

LFL; 8717

S- Length 46.1 cm X width 37.8

S(Notch) - 45.4

C - 48.5 X 43.5

HEAD - 7.5 cm

TAIL - 9.5

RFF - 8.5

PLastron - 37.8

DESCRIPTIVE REMARKS -

25°C Busted post central; Tips of front flippers

notched; 25lbs

281
196
25 BATH SCALE

#8716 Kiholo 2/11/88	
<u>Gelidium pusillum</u>	80%
Sponge	10
<u>Valonia aegagropila</u>	10
<u>Jania capillacea</u>	Trace
<u>Herposiphonia nuda</u>	Trace
<u>Oscillatoria subtilissima</u>	Trace
Terrestrial leaf	Trace

Samples Taken

Blood - ✓

STOMACH - ✓

FECAL - No sample

EPIZOITES - Few skin barnacles, Algae present but scarce

TISSUE -

40
Kiholo
#4

CAPTURE DATE/TIME: 6/28/88 pm

TAG RECOVERY

YES X

NO

(8717 / 8714)

TAGS -

RFL

LFL

TAGS OTHER SITES =

STRAIGHT

LENGTH

46cm

(2-11-88
546.1cm)

WIDTH

37.5

21

NOTCH

45.9

CURVED

48.5

X

44

WEIGHT -

HEAD - 7.6cm

TAIL - 9

RFFlipper - 8.7cm

PLASTRON - 37.5

WEIGHT - 330g

DESCRIPTIVE REMARKS (ie tumors, abnormality, graft spot, epizootes, etc.) =

#8716 Kiholo stomach 6/88

Microdictyon japonicum

50%

Gelidium pusillum

45

Alsidium sp.

5

Ceramium sp.

Trace

Achrochaetium sp.

Trace

Halophila ovalis

Trace

two spines

One snail

Samples -

yes * STOMACH - lots of algae/red gran

BLOOD -

FECES -

TISSUE -

EPIZOITES -

CAPTURE DATE: 2/10/88

TIME: 10:15-11:20

SITE: Kiholo

METHOD: Hand capture

TAGS - 2

RFL; 8718LFL; 8719S - $\frac{\text{Length}}{45.6} \times \frac{\text{width}}{35.1}$

S(notch) - 45.2

C - 48.5 x 41.5

HEAD - 7.1 cm

TAIL - 9.5 cm

RFF - 7.7 cm

PLastron - 35.5 cm

DESCRIPTIVE Remarks -

23°C, Head scum on the carapace, 27.16g

BATH SCALE

Samples taken -

Blood - ✓

Stomach - ✓ Discarded epith. cells only

Fecal - None

EPIZOITES - Two burrowing in plastron (removed)

TISSUE -

42

Active # 57617

previous tags / 8707 / 8708 expanded

Kiholo CAPTURE DATE/TIME: TAG RECOVERY YES X NO Tainted # 3

#4 TAGS - 8907 RFL 6/29/88 pm LFL
8908
TAGS OTHER SITES =

STRAIGHT LENGTH 46.2 (545.3cm) x 10-22-87 WIDTH 31.4
" NOTCH 45.8

CURVED 48.5 x 48.2
WEIGHT -

HEAD - 7.4
TAIL - 8.1
R.F. Flipper - 7.8cm

PLASTRON - 37.4
WEIGHT - 30.5 w

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootes, etc.) =

Both tags 50% algae covered

#8707 Kiholo stomach
Acanthophora spicifera 99%
Gelidium pusillum 1

(?)

Samples - regae
STOMACH - Acanthophora spicifera
BLOOD -
FECES -
TISSUE -
EPIZOOTES -

#4

Paint #4

CAPTURE DATE: 2/10/88 TIME: 10:15-11:20^{AM} SITE: Kiholo

METHOD: Hand capture

TAGS - 2 RFL; 8720 LFL; 8721S - $\frac{\text{Length}}{59.2} \times \frac{\text{width}}{45.6}$

S(notch) - 59.1

C - 63.5 x 55.5

HEAD - 9.2 cm

TAIL - 14.0 cm

RFF - 10.4 cm

PLastron - 48.6 cm

DESCRIPTIVE Remarks - Heavy slum on pl and carapace. 25.7°C

#8720 Kiholo Stomach 2/88

Gelidium pusillum

99%

Dictyota friabilis

1

Diatoms

Trace

Jania capillacea

Trace

Oscillatoria subtilissima

Trace

Sand and shell

One ant

One urchin spine?

Samples taken -

Blood - ✓

Stomach - ✓

Fecal - None

EPIZOITES - no skin barnacles, red algae underside edges of PL.

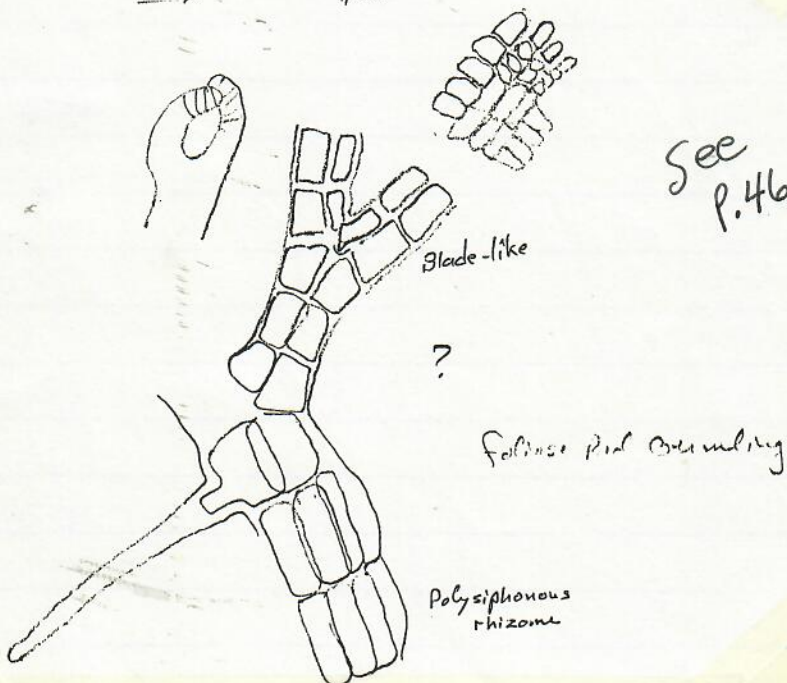
TISSUE -

Kiholo

*8704



Scytonema pascheri Bharadwaja



#8722 Kiholo Stomach 2/88

<u>Gelidium pusillum</u>	99%
<u>Hypnea</u> sp.	1
<u>Enteromorpha</u> sp.	Trace
<u>Acrochaetium</u> sp.	Trace
Diatoms	Trace
<u>Jania capillacea</u>	Trace
<u>Urospora</u> sp.	Trace
<u>Dictyota friabilis</u>	Trace
<u>Lyngbya</u> sp.	Trace
<u>Oscillatoria subtilissima</u>	Trace
<u>Ceramium</u> sp.	
One amphipod	
One hollow spine	

CAPTURE DATE: 2/10/88 TIME: 1130 PM SITE: Kiholo

METHOD: Net

TAGS - 2

RFL; 8722LFL; 8723

S-	$\frac{\text{Length}}{46.5}$	x	$\frac{\text{width}}{37.9}$
----	------------------------------	---	-----------------------------

S(notch) - 45.9

C - 49.0 x 44.5

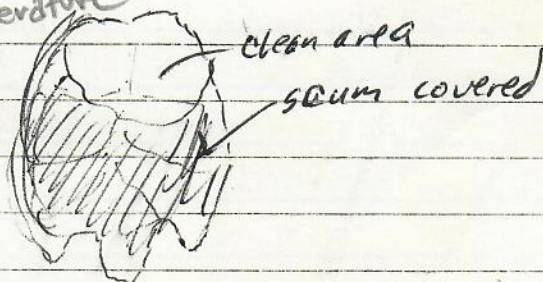
HEAD - 7.5 cm

TAIL - 9.0 cm

RFF - 8.1 cm

PLastron - 36.8 cm

DESCRIPTIVE REMARKS - 21°C Air Temp.
24.2°C - Turtle Temperature



Samples Taken -

Blood - ✓

STOMACH - ✓

FECAL - urination only

EPIZOITES - Few dead skin barnacles, Red + Green algae

TISSUE -

46
#4

Kiholo #4 Ham

6/28/88 p.m.

CAPTURE DATE/TIME: #8706/8705/8704
TAG RECOVERY YES X NO

TAGS - RFL LFL
TAGS OTHER SITES =

STRAIGHT LENGTH (10-21-87 x) WIDTH
56.0 (\$55.0) 44.1
NOTCH 55.8

CURVED 59.5 x 51
WEIGHT -

HEAD - 8.5
TAIL -
R Flipper - 9.9

PLASTRON - 44
WEIGHT - 51.5

DESCRIPTIVE REMARKS (ie tumors, abnormal
graft spot, epizootes, etc.) =

Stringy green algae (carapace)

#8704 Kiholo stomach 6/88

<u>Enteromorpha plumosa</u>	Trace
<u>Gelidium pusillum</u>	99%
<u>Microdictyon japonicum</u>	1
<u>Jania capillacea</u>	Trace
<u>Scytonema pascheri</u> ← see p.44	Trace

Black sand

Samples:
STOMACH -
BLOOD -
FECES -
TISSUE -
EPIZOITES -

Green #6

KIHOLO #4

CAPTURE DATE/TIME: 6/28/88 p.m.

47

TAG RECOVERY YES NO

(expanded)

TAGS - RFL 8944 (expanded) LFL 8943

TAGS OTHER SITES = (Shannon ☺)

APPLIED TAGS

	LENGTH	X	WIDTH
STRAIGHT	42.2		34.4
" NOTCH	42.1		

CURVED	45.0	X	41.0
--------	------	---	------

WEIGHT -

HEAD - 7.1

TAIL - 7.8

R.F. Flipper - 7.5

PLASTRON - 33.5

WEIGHT - 23.5 lbs

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootics, etc.) =

#8943 Kiholo stomach

Alsidium sp.	Trace
Gelidium pusillum	Trace
Lobophora variegata	Trace
Jania capillacea	Trace
Hypnea pannosa	Trace
Foliose red algal germling	Trace

Casuarina equisetifolia (terrestrial plant) foliage	Trace
Foraminifera	

Samples -

STOMACH - yes - small amt of algae

BLOOD - collected

FECES -

TISSUE -

EPIZOOTICS -

48

KIHOLO #4

6-28-88

CAPTURE DATE/TIME:

(expanded)

Hand Capture

TAG

RECOVERY

YES

NO

8702/8703

TAGS -

RFL

LFL

TAGS OTHER SITES =

STRAIGHT

LENGTH

45.3

(10-21-87 x
5-43.4)

WIDTH

36

21

NOTCH

44.9

CURVED

48

x

43

HEAD - 7.5

TAIL - 8.5

R Flipper - 9.2

PLASTRON - 35.5

WEIGHT - 27.5 kg

DESCRIPTIVE REMARKS (ie tumors, abnormalities
graft spot, epizootics, etc.) =

Samples -

NO

STOMACH -

BLOOD -

FECES -

TISSUE -

EPIZOOTICS -

CAPTURE DATE: 2/10/88 TIME: 6:30 P

SITE: Kiholo

METHOD: Net

TAGS - 3

RFL; 8724LFL: 8725LHNO; 8902

	<u>Length</u>		<u>width</u>
S-	58.7	X	47.6

S(Notch) - 57.5

C - 61.5 cm X 57.0 cm

HEAD - 8.7 cm

TAIL - 15.0 cm

RFF - 9.8 cm

PLastron - 48.2

DESCRIPTIVE REMARKS - (25.4°C (7:25 PM))

Diet sunny, many barnacles peeled off

#8724 Kiholo Stomach 2/88

<u>Gelidium pusillum</u>	99%
<u>Laurencia nidifica</u>	1
<u>Amansia glomerata</u>	Trace
<u>Jania capillacea</u>	Trace
<u>Oscillatoria subtilissima</u>	Trace

Samples Taken -

Blood -

STOMACH - ✓

FECAL - none (lots of urine)

EPIZOITES - some live barnacles, several holes

TISSUE -

DAY 2
11-16 FEB 88

NETS UNPINNED 2 AM

CAPTURE DATE: 2-11-88

TIME: 6:30 PM

SITE:

METHOD: NET

TAGS - R. 8903 (3-4)

RFL: 71 w
SAME → 8903 (3-4)

LFL: 8904
8904

8903

8904

S- 39.1

Length

X

width
32.9

NO PRINTED

S (Notch) - 38.7

C - 41.0

X

38.5

HEAD - 6.6

TAIL - 7.5

RFF - 7.1 w

PLastron 31.8

DESCRIPTIVE REMARKS -
25°C.

ALGAE + SCUM ON CARAPACE + PLASTRON

SKIN BARNACLES

PLASTRON + SEAMS w/ BURROWING BARNACLES
32 REMOVED FROM PLASTRON

#8903 Kiholo Stomach 2/88

Gelidium pusillum	80%
Valonia aegagropila	20
Acanthophora spicifera	Trace
Jania capillacea	Trace
Hypnea sp.	Trace
Oscillatoria subtilissima	Trace

Samples Taken
Blood - No

STOMACH - YES

FECAL - NO (LOOP + TUBE, URINE + WHITE

EPIZOITES - ✓

TISSUE -

SUSPENSION)

52

Kiholo #4

6-28-88

Green

CAPTURE DATE/TIME:

TAG RECOVERY YES

NO*

TAGS -

RFL

8945

LFL

8946

TAGS OTHER SITES =

STRAIGHT

LENGTH

x

WIDTH

21

NOTCH

49.7

3.7

49.4

CURVED

53

x

44.5

HEAD - 7.5

TAIL - 8.5

RFFlipper -

PLASTRON - 39.0um

WEIGHT - 35.5ur

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootes, etc.) =

5th central

:= := comparison 2 sections

#8945 Kiholo stomach 6/88

Alsidium sp.
Gelidium pusillum
Jania capillacea
Microcoleus sp.

90%
10
Trace
Trace

Snail
Sponge

Samples -

*STOMACH - yes

BLOOD -

FECES -

TISSUE -

EPIZOOTES -

CAPTURE DATE:

2-11-88

TIME:

6:35pm

SITE: HAWAII

METHOD: NET

TAGS -

8905

8906

RFL: 8905

LFL: 8906

8906

(8906)

S - 41.6 Length X width 34.7

NO PAINTED #

S (Notch) - 40.7

C - 44.0

X 39.5

HEAD - 6.9

TAIL - 8.5

RFF - 7.9

PLastron 33.5

DESCRIPTIVE REMARKS -

MODERATE SCUM ON PLASTRON + CARAPACE

SMALL AMOUNT OF RED ALGAE ON PLASTRON

#8905 Kiholo Stomach 2/88

<u>Gelidium pusillum</u>	99%
<u>Dictyota friabilis</u>	1
<u>Laurencia nidifica</u>	1
<u>Ceramium sp.</u>	Trace
<u>Hypnea sp.</u>	Trace
<u>Oscillatoria subtilissima</u>	Trace
<u>Jania capillacea</u>	Trace

Samples Taken -

Blood - YES

STOMACH - YES

FECAL - NO

EPIZOITES - NO SKIN BARNACLES

TISSUE -

CAPTURE DATE/TIME: 6/28/88 7:30pm Green turtle

TAG RECOVERY YES

NO BUT #8
SLOICE

TAGS - TORN? RFL 8947 (3-4) LFL 8948 (3-4)

TAGS OTHER SITES = 8949 (R Hind) (expanded) LFL 8950 (expanded)

	LENGTH		WIDTH
STRAIGHT	70.1	x	55.5
NOTCH			

CURVED	74.5	x	61
--------	------	---	----

HEAD - 10.2

TAIL - 12.2

R Flipper - 12.6

PLASTRON - 58.8

WEIGHT - 99.0 lbs

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootics, etc.) =

* possibly - it used to be tagged
tag tears on both front flippers

#8947 Kiholo stomach

Gelidium pusillum

Alsidium sp.

Microdictyon japonicum

Tree bark

90%

10

Trace

Trace

Samples -

STOMACH - yes! - small amount of food.

BLOOD -

FECES -

TISSUE -

EPIZOOTICS -

CAPTURE DATE:
2-11-88

TIME:

SITE:

6:45
R-FLAP → 28907

METHOD: NET

TAGS -

RFL: 3477

LFL:

TAG RECOVERY

) (THRU 2ND SCALE)

3476

NO PAINTED #

	Length		width
S - 64.3		X	51.8
S - 51.4			41.2

S (Notch) - 64.2

C - 69.0		X	63.0
54.4			48.7

HEAD - 9.4 7.9

TAIL - NT 10.7

RFF - 11.5

PLastron 54.0 42.3

DESCRIPTIVE REMARKS -
25.5°C.

TURTLE SHOVED INTO NET BY BARRY CHOY

ORIG. TAGGED KIHOLLO 10-14-80 net

Samples Taken -

Blood - NO

STOMACH - NO

FECAL - NO

EPIZOITES - NO OBSERVATION

TISSUE -

56
KINDLO #4

CAPTURE DATE/TIME: 6/29/88

11-12
pm
Hand
capture

TAG RECOVERY YES NO

TAGS -

RFL 7778

(EX RT DISTAL) (EX)

8701

LFL 7779

(EX)

TAGS OTHER SITES =

(tag above enumerated)

(tag 100% encrusted w/ algae)

STRAIGHT

LENGTH

61.6 (10-21-87
560.6)

WIDTH

50.4

NOTCH

61.3

CURVED

66.0

X

62.0

HEAD - 9.6

TAIL - 11.5

R Flipper - 10.6

PLASTRON - 49.0

WEIGHT - 71.0 lb

DESCRIPTIVE REMARKS (ie tumors, abnormalities
graft spot, epizootes, etc.) =

Both front flippers have healed pieces taken out
of the leading edge.
Heavily silt scum on carapace.

Samples -

STOMACH -

BLOOD -

FECES -

TISSUE -

EPIZOOTES -



CAPTURE DATE:

2-11-88

TIME:

7:30

SITE: NET

METHOD:

TAGS -

TAG RECOVERY

RFL; 7760

LFL:

7759

S-56.5

X

width
44.9

NEW TAG

3-4 8908#
NO PAINTED

S-53.6

S(notch) - 56.2

C - 61.0

X

55.0

HEAD - 8.6

TAIL - 10.0

RFF - 9.5

PLastron 44.9

DESCRIPTIVE REMARKS -

SCUM ON CARAPACE

RED ALGAE ON NEUR.

TAGS COVERED W/ RED ALGAE, SAMPLE GIVEN
TO DR. FOSTER.

ORIG. TAGGED 8/8/84 SL-53.6

Samples Taken -

Blood - NO.

STOMACH - NO

FECAL - NO

EPIZOITES - MANY SKIN BARNACLES

TISSUE - MANY BURROWING BARNACLES
IN PLASTRON (5 REMOVED)

KITZOLD

CAPTURE DATE/TIME:

6/29/88 (11-12 pm)

TAG RECOVERY

YES

NO

hand capture

TAGS -

RFL 8713 (ex)

LFL 8712 (ex)

NO PRINT

TAGS OTHER SITES =

STRAIGHT

LENGTH

x (10-23-87)
(545.1)

WIDTH

365

NOTCH

44.6

CURVED

48.0

x

43.0

HEAD - 7.2

TAIL - 7.5

RFFlipper - 8.2

PLASTRON - 36.3

WEIGHT - 29.0

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootes, etc.) =

Samples -

STOMACH -

BLOOD -

FECES -

TISSUE -

EPIZOITES -



SNORKLE - 8-9 PM

CAPTURE DATE:
2-11-88

TIME:

SITE: Pond'

METHOD: HAND
LFL:
8910

TAGS-

RFL: 8909

NO PAINTED #

S- $\frac{\text{Length}}{44.8} \times \frac{\text{width}}{35.5}$

S(Notch) - 44.4

C - 47.5 x 42.5

HEAD - 7.7

TAIL - 8.0

RFF - 7.8

PLastron 37.0

DESCRIPTIVE REMARKS -
CARAPACE CLEAN

SKIN BARNACLES

#8909 Kiholo 2/88

<u>Gelidium pusillum</u>	99%
<u>Dictyota friabilis</u>	1
<u>Laurencia sp.</u>	Trace
<u>Oscillatoria subtilissima</u>	Trace
Terrestrial leaf	Trace
Sand	

Samples Taken -

Blood - NO

STOMACH - YES

FECAL - NO

EPIZOITES - SKIN BARNACLES

TISSUE -

CAPTURE DATE

2-11-88

TIME

8-9 P.M.
SNORKLE

SITE

61

METHOD - HAND
CAPTURE

TAGS (3)

RFL - 8911

LFL - 8912

~~R-HIND 8913~~

L-HIND 8913

LENGTH

WIDTH

S 59.5

X 47.8

S (NOTCH) 59.3

C - 63.5

X 57.5

HEAD 9.2

TAIL 12.0

RFF 9.9

PLASTRON 48.5

DESCRIPTIVE REMARKS

MANY SKIN BARNACLES

1 BURROWING, SEVERAL SCABS ON PLASTRON FROM
DEAD ONES.

WHITE SCUM ON CARAPACE

ALGAE ON NECK

SAMPLES TAKEN

BLOOD - ~~NO~~ YES

STOMACH - YES

FECAL - NO

EPIZOITES

#8911 Kiholo Stomach 2/88

Gelidium pusillum

99%

Amansia glomerata

1

Dictyota friabilis

Trace

Ectocarpus indicus

Trace

Herposiphonia nuda

Trace

Jania capillacea

Trace

Polysiphonia sp.

Trace

Tolypocladia calodictyon

Trace

Terrestrial grass

Trace

624

END KIHLO #4

CAPTURE DATE/TIME: 6/29/84 11-12 pm

TAG RECOVERY YES

NO

HAND CAPTURE

TAGS -

RFL

3952

LFL 3951

TAGS OTHER SITES =

(neither blk nor yellow applicators work seal these tags properly - used hinge pliers)

STRAIGHT

LENGTH

55.1

WIDTH

43.3

NOTCH

54.6

CURVED

59.0

x

52.5

HEAD - 8.5

TAIL - 9.5

RFFlipper - 9.2

PLASTRON - 45.0

WEIGHT - 50.5 lbs

DESCRIPTIVE REMARKS (ie tumors, abnormalities, graft spot, epizootes, etc.) =

heavy scum on carapace

Samples -

STOMACH -

BLOOD -

FECES -

TISSUE -

EPIZOOTES -

CAPTURE DATE

TIME

SITE NET 63

2-11-88

9:30

METHOD - NET

TAGS (4)

RFL- 8914

LFL- 8915

8916 (3-4)

R. HIND 8917

LENGTH

WIDTH

S 66.5

X

50.6

S (NOTCH) 66.3

C - 71.0

X

63.0

HEAD 9.9

TAIL 15.0

RFE 11.0

PLASTRON 52.0

DESCRIPTIVE REMARKS

MASSIVE ENCRUSTED WITH SKIN BARNACLES

ALSO SEAMS OF PLASTRON - BURROWING BARNACLES

MOST BARNACLES ON PLASTRON APPEAR DEAD

PLASTRON - SLIGHTLY CONCAVE

PLASTRON COATED WITH SCUM

CARAPACE W/ ^{HEAVY} SCUM + ALGAE

FRONT FLIPPERS + 14 HIND FLIPPERS W/ ALGAE ON DORSAL SURFACE

SAMPLES TAKEN

BLOOD NO

STOMACH NO

FECAL - NO

EPIZOITES

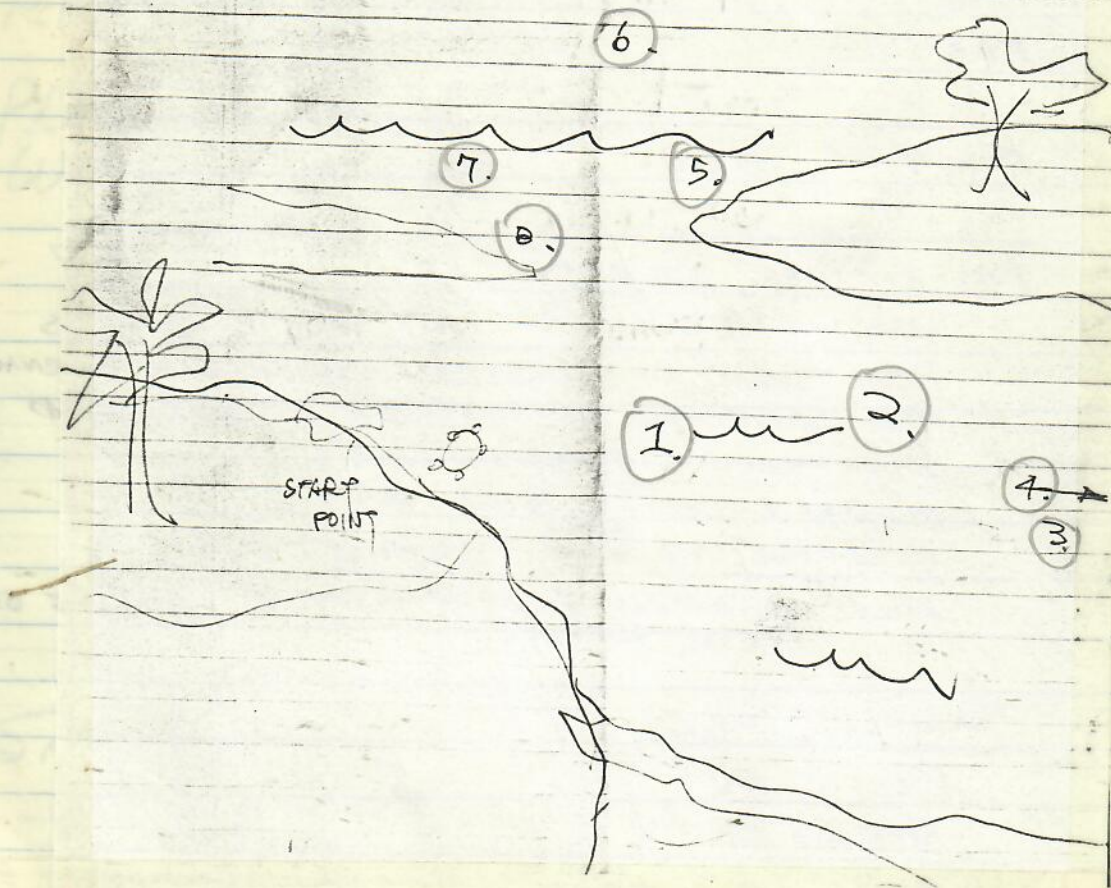
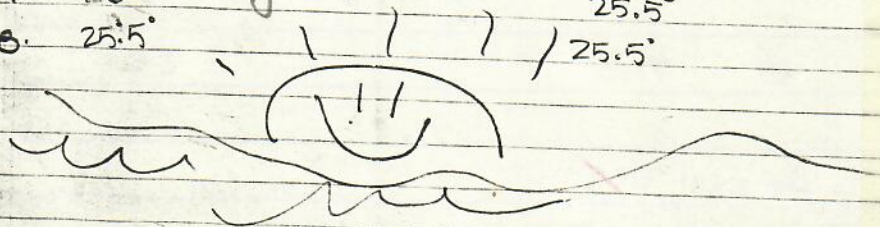
NO PAINTED #

SEE ALSO P. 72

START: 2:45 pm

END: 3:45 pm

	surface		bottom
1.	24°	BY TINA & USING my PVC glass encased thermometer	25°
2.	23.5°		24.5°
3.	23.5°		25.5°
4.	24.5°		25°
5.	24°		25°
6.	26°		26°
7.	26°		25.5°
8.	25.5°		25.5°



HPA #2 KIHULO, HAWAII, GREEN TURTLE TAGGING AND SAMPLING 65

<u>VIAL/TAG NO.</u>	<u>SOURCE CONTENTS</u>	<u>CARAPACE LENGTH</u>	<u>CAPTURE METHOD</u>
8714	STOMACH	42.4	NET
8714	FECES	42.4	NET
8716	Stomach	46.1	NET
8720	Stomach	59.2	HAND
8722	STOMACH	46.5	NET
8724	STOMACH	58.7	NET
8903	STOMACH	39.1	NET
8905	STOMACH	41.6	NET
8909	STOMACH	44.8	HAND
8911	STOMACH	59.5	HAND

10 SAMPLES SENT TO DR. RUSSELL
2/17/88 from G. BALAZS

Results received 9/88
taped in book