

2 - BIG ISLAND 84
G.H. BALAZS

PUNALUÚ
1984-A
G.H. BALAZS

17-19 FEBRUARY 1984

PUNALUU
(EXP. NO. 4)
2 NIGHTS NETTING

p. 5-

16-18 MARCH 1984

Hilo (HONOLULU, MAUNA KANI)

p. 41-49

22-31 MARCH 1984

PUNALUU
(EXP. NO. 5)

p. 51-108

12-15 APRIL 1984

PUNALUU

(EXP. NO. 6)

6 hours
of netting

slide
show
& PBS
filming

p. 108

13-18 MAY 1984

PUNALUU

(EXP. NO. 7)

G.H. BALAZS

FAT SAMPLES - p. 116
SEX DETERMINATION - p. 119
TAG Summary - p. 120



COMPOSITION BOOK

9 3/4 IN. x 7 1/2 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

Made in U.S.A.

VERNON McMILLAN, Inc., ELIZABETH, N.J. 07208

PHOTO LOG - p. 117

Needs - p. 31, 50, 115

MOP - 961-9544

8191

Dudley-home 935-6987

928-6160 FRANK MARINO (4-14 Dive light at Punaluu)

MIDPACIFIC - 329-0944 Big IS,

Roy Blackshear (Shipman Est.) 966-9325 home - 966-9711

Walt - home 935-6987; office 961-9411 MOP 961-9544
Nati. Sciences Division - 961-9383

Pete ^{APT 205} home 885-4453 Seagrant 329-6767
Mauualani 885-7883 ("MARIE")

Hilo Hotel - 961-3733 P.O. Box 5315
Miles - 966-7772 HILO 96720 / Bob Lamb - 935-7350

Howard, A.L. - 928-8156

DIANE - 935-9260 (41 ULUWAHI HILO, HI 96720)

LEON HALLACHER - 966-7047 (office 961-9364)
Santos ^{Nelson} 961-7573

Nishimoto - 961-7501 HOME-

Bob LAUBE 935-7350

LISA HALL - 935-1737

JANET RYCHENER, KAU Rd. Dept.
County of Hawaii Box 82 NAALEHU 96779
929-7189

Punchy Kim - 959-7762 home (6-6:30pm)

Weather Report - 935-8555 (Hilo) 961-5582 (Big IS)
935-9883 (Haw. waters)

SUPE-DOCARE - 961-7291 (ENTERPRISE 5469)

STUART KERNS - 961-8366 (County Research & Devel.)
25 AUPUNI HILO 96720

^{NMFS} KEWACO - 533-4110

^{ANNE} MeLeod → (212) 525-3456
Larry Emple ext. 548 Home (212) 222-1097

→ PUNALUU PAY PHONE - 928-9944

HERB KANE - KOHA - 329-8952 (wife - Dr. Marshall)

Harper - 969-1478

GAIL PEITERTSON - 254-3028 Home

KAU POLICE - 929-7331
POLICE EMERGENCY - 935-3311

Frank Marino - TeB Workshop - (212) 595-3456, ext. 534
ALVIN KATEKARU - 548-3044
State film permit office - 548-4535

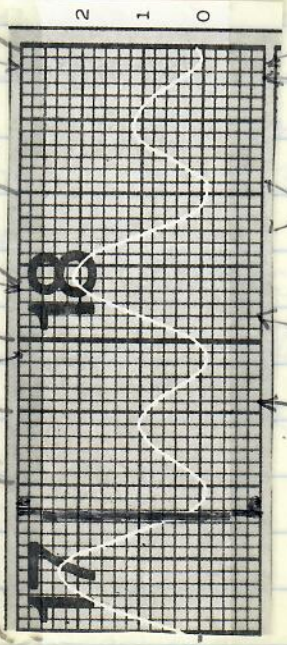
TOSHI ARIGA
65 Hihuhilu St.
Hilo - 96720

Honolulu -24 min

FEBRUARY 1984

Friday

noon 6pm midnight



17

2 caught at
Kai Ikae

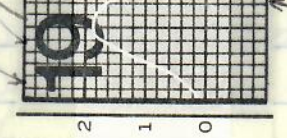
2 caught
in net

midnight

noon

SUNDAY

6am noon 6pm

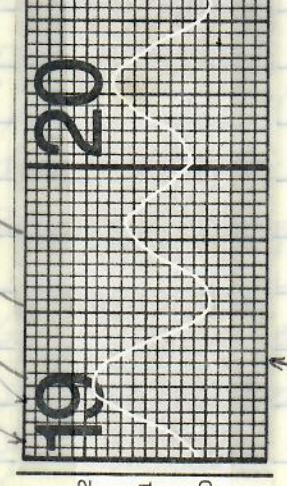


19

2 caught at
Johnson's Pond

1 caught
in net

Monday



20

1 caught
in net

IN NET
SITES
#1 & 2
60 each

SITE
#1 NET
OUT for
REPAIR

2 caught
IN NET

1 caught
in net

1 caught
in net

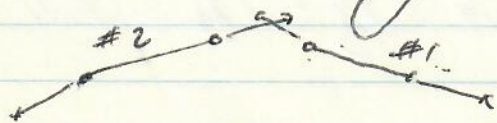
BOTH
NETS
OUT

TIME -

NET SITE #1 - 33 hours

NET SITE #2 - 37 hours

17 FEB 84 Mid Pac coupons PL 44 10:10am - HICO ;
 FRIDAY Arrive ~ 11:15am ; Pick up a
 van a Harpey ; drove to campus
 and had lunch ~ 12:30 pm with
 Chris. MOP office - informed
 Walt is sick - not going ; met
 with new students, + some others at
 1 pm - Berereva (friend Jim) - she
 has 3 children ; for interviews -
 gave a log to her + ?
 Bill Harlyn and John Corey
 participated. Cooked at boat house ;
 bought food on P.O. at KTA (~\$165.)
 Drove to Puvaluu with Diane ;
 Leon and Nancy in his van ;
 Chris, Bill and John there upon
 arrival ; also Rick Klemm.
 1 - 60' net at site #1 (right)
 out ~ 5:30 pm ; turtles seen
 feeding in this region - in close.
 2nd - 60' piece on left (site #2) -
 almost totally dark - 7 pm.



NOTE - Growth rates differ between sex?
 Can be tested.

People on trip - Geneva & Jim
Sandy

- 1 - Jean
- 2 - Nancy
- 3 - Bill Harlan
- 4 - John Coney
- 5 - Diane
- 6 - Darrell
- 7 - Will
- 8 - Bob
- 9 - Loretta
- 10 - CRAIG
- 11 - LEON
- 12 - Chris

Recap 7/10/90 Final

2-17-84 ...
with 18" ...
...
7605

7622 166 0.88 x (31.3) x 2 x 44.5

5.98 x 7.11 x 3.2
1100 - 8.8
910.33.8.3

(45.2) (47.7) (61.5)

WTA ...

WEIGHT - 5 lbs (15.3)

...

...

...

(9 TOTAL) Blood Sample NO. are - (45.2) (47.7) (61.5)
7620; 7622; 7638;
^(62.0) 7617; ^(63.5) 7641; ^(68.0) 7609; ^(41.3) 7624; ^(73.5) 7613;
^(66.5) 7644;

8

CATCH NO.

①

2-17-84
FRIDAY

Small turtle caught by 2
Filipino fishermen - "crossnetting"
with 2" gillnet - possibly
Johnson's pond. Given ~ 8pm
Data collected and released 2-18 off
Pavilion.

7624 CFL S - 41.3 x 33.0

7625 RFL C - 44.5 x 39.2


PL - 33.8

HEAD - 7.2

TAIL - 6.5

WEIGHT - 27lbs (12.3 kg)

4 burrowing barns - PL - off

7th marginal left - 

Photos approx #12 & 13 Roll 1

Blood collected - label 7624

②

Recap 7/18/90 Funday

9

2-17
FRIDAY ~2300 h
Snoorkeling horseshoe w/Chris

7623 RFL

S - 47.7 x 37.2

7622 LFL

C - 50.2 x 44.5

PL - 38.4

HEAD - 8.8

TAIL - 9.0

WEIGHT - 34 lbs (15.5 kg)

4 burrowing barns - PL - off

Photos w/ #19 & 20

Roll #1

Blood sample 7622

(3)

2-17-84 Snorkeling Horseshoe w/Chris
Friday ~2300h

7620 RFL

S - 45.2 x 38.0

7621 LFL

C - 48.4 x 43.9

PL - 36.0

HEAD - 7.3

TAIL - 9.5

WEIGHT - 31 lbs (14.1 kg)

Photos #s 15 & 16

Blood Sample 7620

2-18-84 Site #1 net capture - This one
SAT and vest page together. Both
~2 AM twisted-in bad. Me, Cris,
(Bill or John); Together took ~1 hour to get
out.

7614 RFL S- 73.5 x 58.5

7615 R3-4th C- 75.5 x 80.0

width deformed - see photo

7613 LFL

PL- 58.6

7616 RHIND

HEAD - 11.1

TAIL - 17.0

WEIGHT - 133 lbs (60.4 kg)

Right FL pierced, but healed. Probably
from at earlier tag (photo tag + hole).

Deformed PC's

- Probably affected measurement

Rick Klemm took photos of me, turtle in tube,

Photos 23, 24, 25 Roll I
+ 26, 27, 28

Blood Sample 7613

(5)

Site #1 wet.

2-18-84

SAT

2 Am

(w #4 previous page)

7617 LFL

S- 62.0 x 51.8

7618 RFL

C- 65.5 x 61.3

7619 R 3-4th

PL- 47.8

HEAD- 9.3

TAIL- 14.0

WEIGHT - 75 lbs (34.1 kg)

Rick Glenn - Photos of Chris & (Bill or John)
 landing turtle on the beach.
 Photos 17 & 18 Roll #1

Blood Sample 7617

⑥

Site #1

2-18-84

SAT.

~4:30 AM

S- 68.0 x 56.2

7609 LFL

C- 73.2 x 70.0

7610 RFL

PL-55.2

7611 R3-4th

HEAD - 10.7

TAIL - 13.5

⑦ 7612 RHIND

WEIGHT - 104 lbs (43.7 kg)

16 burrowing barracks removed - PL

Photos 29 & 22 Roll #1

Blood Sample 7609

(7)

2-18
SATURDAY
~10pm

Site # 2 ^{LEFT NET} - Darrell, Diane, Coretta,
Jim, + Bill or John?
Monel tag loss?

7630 RFL
(through existing
tag hole)

S-88.8 x 68.1

C-93.2 x 82.0

7631 R3-4th

PL-70.8

7632 L3-4th

HEAD-12.2

TAIL-40.0 ♂

7633 RHIND

WEIGHT - 202 lbs (91.8 kg)

3/25/87 PUNACUU

- no attempt for blood

Photos of tag hole & callous on the left
flap.

Photos 32-33 + 36, 37, 38

Roll #1

Cloaca appears swollen.
3rd central scute has pushed in site "hole";
Looks like power head hit it, and it
didn't go off! May be visible in beach photos.

⑧

2-18-84

SAT.

11 pm

ORIG. DATA:

8/31/78

HORSEHOE: "2875" "2876"

S- 39.4

x

31.7

S- 61.5

x

50.0

TAG RECOVERY

(61.2 notch)

22.1cm increase - 65.5 = 0.337cm/mo

2876 LFC

coated with dark

> Red coralline -

2875 RFL

Tagstock fine

7638 R3-4th (new)

C- 65.5

x

61.0

PL- 48.8 32.1

HEAD - 9.5 6.7

TAIL - 15.0 8.3

WEIGHT -

73 lbs (33.2 kg)

20.5 lbs

+ 52.5

Photos #1 & 2 on new Roll (#2)

Blood Sample - 7638

⑨

2-18-84 Johnson's Pond - Will, me
 SATURDAY with Corretta, Bill & Dean on shore -
 11 pm Drove van in. Released off Kuraluan Bay,
 like all others

7639 RFL S - 44.1 x 36.5
 (44.0) x 61.0

7640 LFL

7643 34 C - 46.0 x 41.0

PL - 36.5

HEAD - 7.2

TAIL - 8.5

WEIGHT - 31 lbs (14.1 kg)

35 burrowing barns taken off.

Photos 34, 35 (ventral + tail?) ROLL #2

* No blood taken - couldn't get any

→ Recovered 4/13/ sleeping in Johnson's pond.
 44.5 cm will & George - 10 pm. No blood obtained when
 tried next morning.

(10)

2-18-84

Johnson's Pond - Me & wife
- Same time as #9.

SAT.

~ 11 pm

S - 63.5 x 48.0
(63.0)

7641 RFL

C - 68.2 x 61.0

7642 LFL


PL - 50.4

7643 R3-4

HEAD - 9.5

TAIL - 13.0

WEIGHT - 82 lbs (37.3 kg)

1 burrowing barn - PL
 Left front flipper "squared," but healed at end 

NO PHOTOS taken of this turtle

Blood Sample 7641

⑪

2-19-84
SUNDAY
~Site #2 NET - Right by the outside
buoy - BADCY TANGLED0030-
0100

S- 84.5 x 66.3

7634 RFL

C- 89.0 x 83.5

7635 R3-4

PL- 66.3

HEAD- 12.3

7636 LFL

TAIL- 40.0 ♂

7637 RHIND

WEIGHT - 178 lbs (80.9 kg)

no blood attempted

Photos - "28 on" BEACH Roll #1

TMR growth in FORWARD CORNER OF Right eye;

(PHOTOS #)
up close4 leeches & egg casing patches on ventral
surface - near FL; Treated with benadine to
kill them.

(12)

NET #1

Craig, Nancy & Sandy retrieved
it themselves!

2-19-84

SUNDAY
-0415

ORIG.

DATA: 1/25/78

HORSEHOE:

2523RFL, 2524LFL

S- 39.0 x 32.7

S- 65.5 x 53.0

(65.2) 73 months - 0.363 cm/mo

+26.5

2523 RFL

coated with
> dark red
coralline;
look good

C- 71.5 x 65.6

2524 LFL

7644 R3-4 (new)

PC- 51.8

HEAD - 9.7

TAIL - 13.0

WEIGHT 94 lbs (42.7 kg)
20 lbs

Photos in INNER TUBE - last ones

of wild captures - Surabau - This expedition. Roll #2

Blood Sample ^{vial} label 7644

No. 6 & 7 ==

- Project NEEDS
- 1 ^{COT} FOLDING CHAIRS ^{home?}
 - 2 ^{SPRAY} PAINT
 - 3 Biopsy Kit for fat
 - 4 NEED FROM BOOK I
 - 5 BROCHURES TO HAND OUT (TOURISTS)
 - 6 ADDRESSES OF GENEVA & SANDY
 - 7 CARD TO MRS. HOWARD
 - 8 ^{KEWALO} TUBE
 - 9 PRIMA PACKS?
 - 10 ^{K-RATIONS}
 - 11 Midpac coupons \$150 + ^{1 day} car
 - 12 slides for will
 - 13 JA to Walt
 - 14 Buy dome tent for FFS
 - 15 Mark slides last trip
 - 16 Look at Nautical of Hilo for relief spots
 - 17 Call Haugen - reprints/ever mention release?
 - 18 ^{HUMBACK} Whale brochures/turtle poster for Pete's concession ^{MAIL}
 - 19 Halapae schedule?
 - 20 ^{LECTURE}
 - 21 Request info through Salazar
 - 22 invite note for Bulletin Board
 - 23 ^{DIANE} - Red Permit
 - 24 Allen Wrench ^{for CO2 vest}
 - 25 Trailer Hitch
 - 26 Telephoto lens for taking in nets
 - 27 JA Report ^{slide show} to Walt + CBS, PBC, ^{need} 2-way radios; ^{ARSONIC ANAL.} spare motor
 - 28 Cargen sign?
 - 29 ^{SUISAN?} Dry Ice in Hilo?
 - 30 Cargen thermos for fat/algae etc
 - 31 Call Leon
 - 32 Shank list to Bob, miles, will
 - 33 Harper Van 3/22?
 - 34 ^{LOWLY} State PD's-wont accept ^{SARFORD}
 - 35 ^{DIVINE} Reserve package
 - 36 Braun papers to Darrell
 - 37 Inflatable stored at Richardson?
 - 38 walk out Turtle Bay
 - 39 water parameters
 - 40 collect algae
 - 41 Slipman letter
 - 42 Film Corp
 - 43 Key (CONTINUED P. 50)

Photo needs - Rock outcrops where they feed; boulders with Pt. low tide; turtle in net - flash - Ikelle; nest site across road + concessions;

2-19-84 Departed Kunalum about noon time
 Sunday Unloaded - repacked gear at the
 boat house; Spun blood samples
 at VH lab; Drove Diane &
 Loretta home, but first went
 by KUHIO GARDENS where
 Loretta works -

Just a short distance from where
 Reeds Bay Restaurant used to be
 Dug-out area "ford" lot of
 fallen-down trees - turtle in
 here that was given from
 Reeds Bay as "good luck".

C - 43.9 x 40.0
 (43.2 notch)

PL - (tape) 34.5 cm

Thick and healthy looking - photos
 taken -

TAG APPLIED

7651 RFL

Audrey - owner's daughter

"MYRTLE" - turtle's name.

Need - straight measurements
 Been here about 4 months.

2-19-84 Returned to Honolulu Mid-Pacific FL 5
SUNDAY 7:10 pm - arrive 8:15 AM

entry
error
VOID

Harper van "74" 1982 Buaventure
waiting at airport (#30 night); Checked in
at Hilo Hotel Rm 111 #16

7651 B

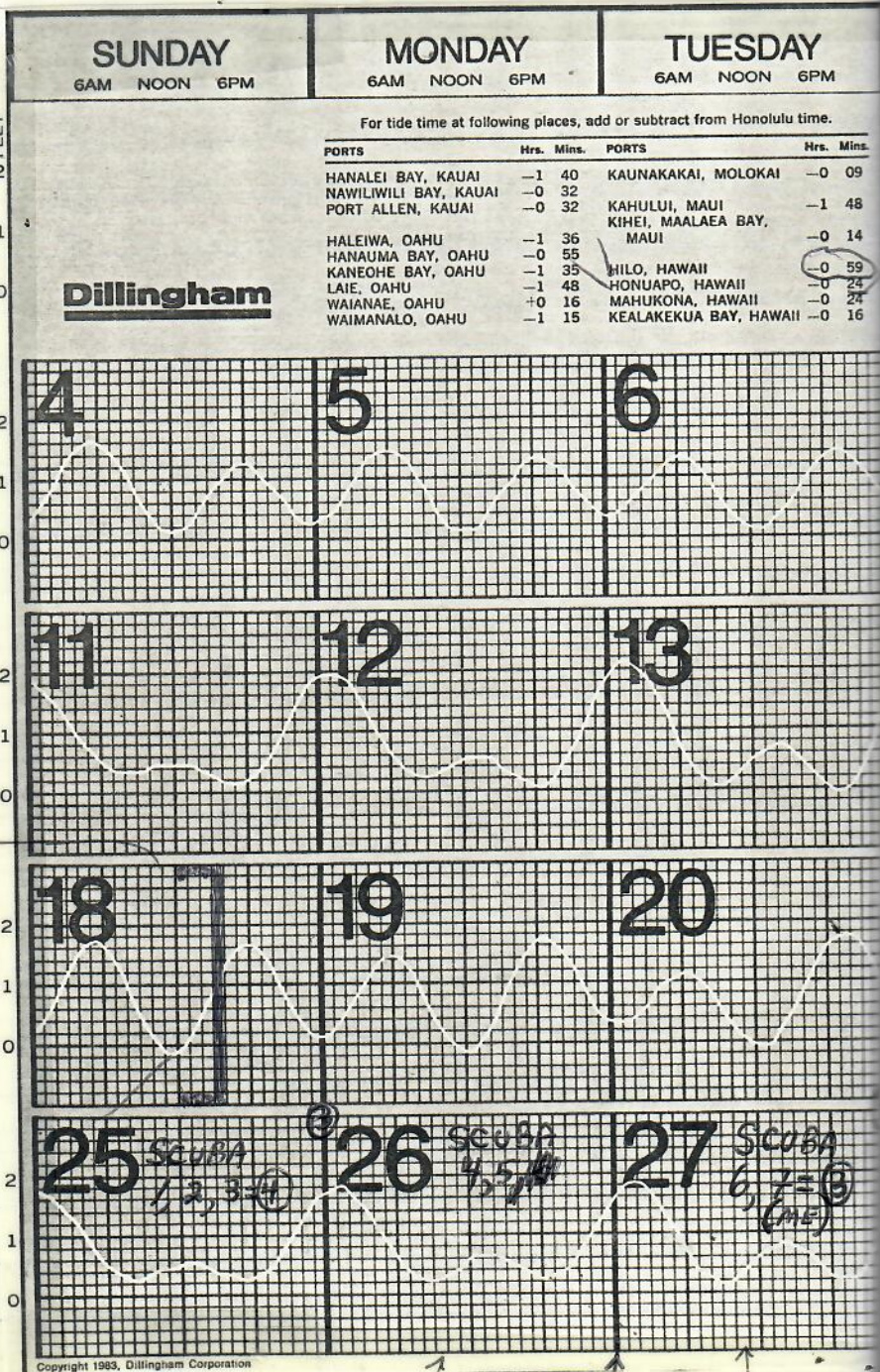
NETTING TOTALS 3/23-3/28/84

NIGHT 1 = 3
 " 2 = 7
 " 3 = 10
 " 4 = 2

22 TURTLES

25

100



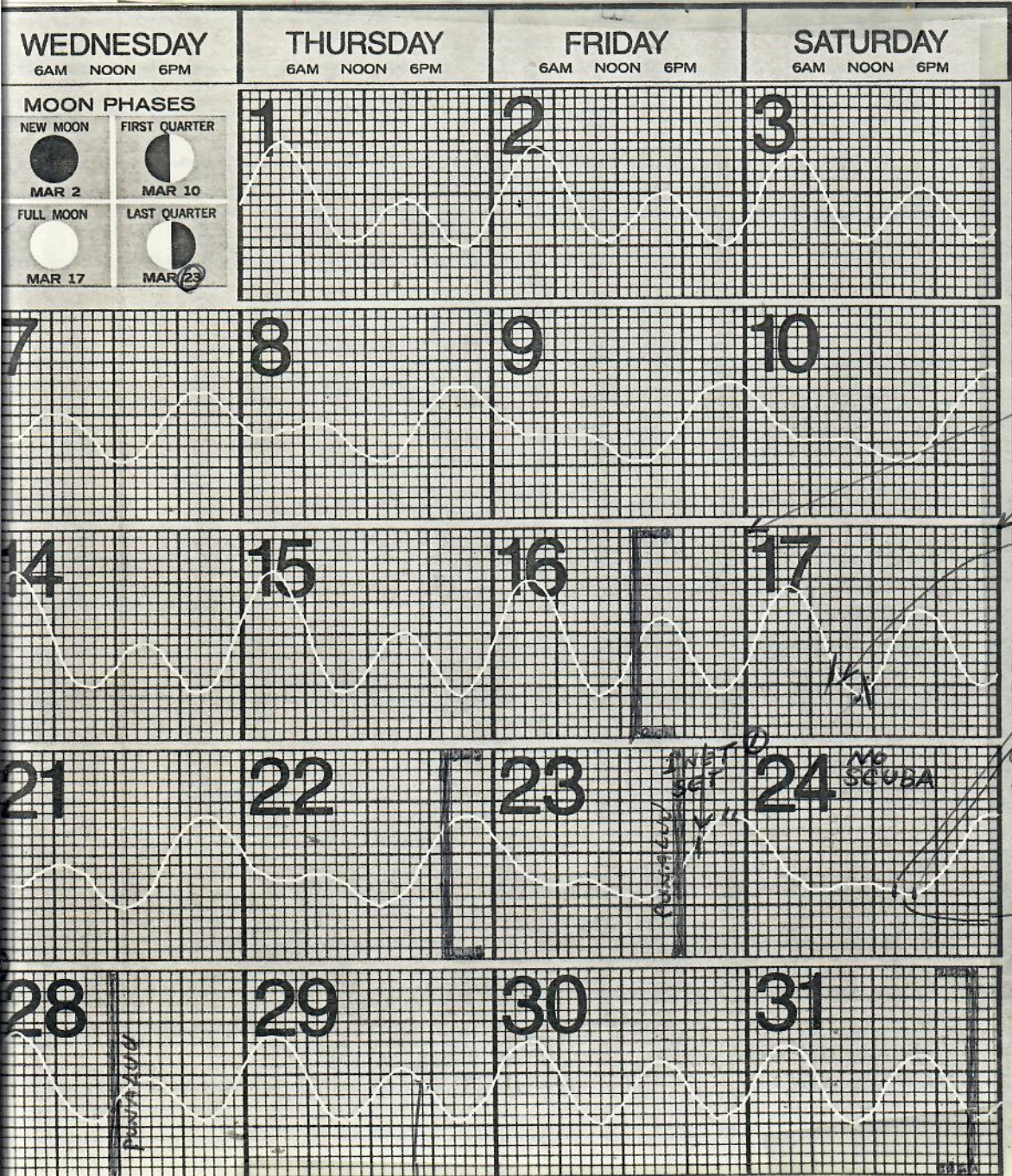
NO CAPTURES SCUBA

NO NETS

OUT THIS NIGHT

1 net IN

MARCH 1984



2 FEET

1

0

2

1

0

2

1

0

1

0

2

1

0

Hilo HOTEL

BACK TO PUMP OUT & HONOLULU WALK TO TURTLE BAY

MAUNALANI SCUBA 1 & 2

Honolulu SCUBA 1 & 2 (2)

Hilo HOTEL

Dive # 1 & # 2 - Honolulu

LEFT NET (#2) in; RIGHT (#1) out and back in

9:30 - 10:30 pm high tide

Dove HORGESTOE, JOHNSONS POND & SMALL HOLE (NOTHING)



Faint handwritten notes in pencil on the lined paper, including "to Kona" and "to Puna".

16 MARCH 1984

FRIDAY

#5 Paid - EXCESS BAG

FL48 - Depart for Hilo - Mid Pacific Air -
 1:20 pm; Arrive - 2:20 pm - Dollars rent -
 a car #14.95 - Colt hatchback folds.

OBJECTIVE

- 1.) Dive with Team at selected spots in Hilo Bay
- 2.) Purchase items needed for next week's trip to Punaluu
- 3.) Meet with Drane, other, for project coordination
- 4.) Schedule June and other field work (CBS) April - (PBS)
- 5.) Visit MAUNA CAHI, take photos, talk with scuba guide there and Pete
- 6.) Visit Punaluu, watch coastline, collect Algae (?)
- 7.) Gear - spare outboard, folding chairs; ^{Spark Plug; 2-way Radios; CANVAS - outboard} Biopsy Kit
- 8.) Check on turtle in pond (FAT for Pesticides) ARSENIC?

Drove to boat shed where Walt and others were cleaning - Discussed dives with Miles - They went (out last weekend. Celerwi (over the rocks launch). No turtles seen underwater - but some at the surface. (Nearly dark at about 7pm)
 Checked into Hilo Hotel - Back Room -
 PayPhone there is

3/16/84
Friday

~ 5 pm drove to Honolulu - Miles, Bob, Will were there too. Surfers, pavillion on beach. Residential house high on cliffs along both sides. Light beacon to the left can't be seen from residential area. Reports all say that surfers regularly see turtles here - Honolulu. Stream runs out here. Need photo.

Ate at Chinese restaurant, organized & tried scuba gear, exercised and went to bed ~ 10 pm

3/17
SAT.

Up ~ 6:30 pm; Met at boat house 7:30 pm - Launched at Suisan Ramp (this is area where arsenic contamination occurs). Motored out channel and directly for "bridge" of Honolulu. Noted black snail on beach/shore along Hilo Bay - hammer caught in nets here. Aboard - Dawn, Will, Bob, me & Miles. Motored past Honolulu to directly off Beacon. Anchored in ~ 25' deep. ~ 9-9:45 AM 45 minutes (?) DIVE #1 ~ 55' maximum. Rocky bottom, but not big boulders - seems almost devoid of fish life. Amansia present with colline algae growing on it. Rocky

INTERVIEW PUNCHY ABOUT
THIS SITE;
HE REPORTED "CAVE"

3/17
SAT.

bottom end and thereafter seaward
it is mostly black sand.
Turbid water vis. - 20' est. No
turtles seen - in spite of good
coverage by the 4 of us. Toward
shore it becomes shallow fast -
breaking waves/surg more pronounced.
Notes to Honolulu - anchored and
rested ~ 45 minutes. Shallow area
here extends further off shore -
probably due to river flow.

DIVE #2

~ 10:30 AM 35', 60 minutes.

Bottom here is also rocky, but
many of the rocks are larger
than at DIVE #1 site. Patches of
encrusting coral on rocks. Some
fish. Turbid the same. About
50 m from the boat we came across
a rock pinnacle outcrop - 25-30'
bottom gets deeper to seaward. Large
rock was running perpendicular
to shore - also some large boulders -
offers considerable topographic relief.
Prior to this site, we
had seen one small turtle
at the surface several times. Also,
while swimming from boat to outcrop,
we saw 1 ~ 60+ cm turtles.

3/17
SAT.

At outcrop, We saw up to 6 turtles
none larger than ~ 65 cm. Most
seemed unafraid, but were
alert enough when seen to move
away from capture. One scurried back
2-3 times. We continued
parallel to shore ~ 20-30' deep,
and saw 3 more - one may have
been > 70 cm. Several of the turtles
seen had large white barns on
carapace. None could be approached
to catch before they moved off
slowly. Therefore all "awake" alert-
but resting on the bottom. On
return we again looked all
over outcrop. Bob scared one
out that swam directly at me
and I grabbed a flipper. No other
seen.
Worked it up in zodiac - ~ 11:30a
wind coming up.

HONOLULU

45

3-17
SAT.

photos

S - 53.3 x 41.5
(notch nearly same)

7645 LFL

C - 58.0 x 49.5

7646 L3-4

PL - 43.0

7647 RFL

HEAD - 8.8

TAIL - 11.5

Nothing seen in mouth.

Considers catching here - taking back to dock and drawing blood/fat at boathouse before releasing from car.

This might work well for small turtles, like the above.

1-2 burrowing barns on PL.

Chelipedia are carapace & PL - 1 small each. Red alga on skin.

Returned to Suisan - washed gear at boat house - back at hotel about 2:15 pm.

3/17
SAT.

Drove to Honolulu ~ 4pm - walked to beach - surfers on breaks at each side - but not in middle; less break there. From top I saw one turtle surf and dive by a 'surfer' - only turtle seen. NO algae whatsoever seen on beach sand or rocks. Possible entry for scuba from shore? Took 2 photos showing area of outcrop where we dove this morning. Departed

~ 5:15pm and drove to Wailoa State Park - ford/waterway connects to Susan boat ramp. Sign under one of bridges says WAILOA PUBLIC FISHING AREA - boating only for fishing. About 12 small boats there - 2 in each "angling" for mullets (closed season now?). Left here about 6:15pm after walking all around. Drove along trail of Hilo Bay front

BACKNOTES:

"CLINGING TO THE EDGE"

3/18/84 UP ~ 6:30 pm -
SUNDAY

(Saw 1 turtle beyond surf at
the surface through binocs)

Drove to Hanalei

Still big surf - shore entrance seems unsafe. Drove on to Mauna Lani arriving at ~ 9 am. Met Leslie -
counter of "KAMAHOLA LEISURE TOURS" -
CONCESSION # 11 OWNED BY RODNEY INABE
She used to work at Maunakea - husband still works there ("union prevents husband and wife working together").
on the walk out to the concession, I inspected "shuice" (Makaha) gates and lava stone walls with cement walkways on top. Photos taken from different angles. Noted "double gates" - seaward is wood slats very close together → [] ← inside gate is screen mesh; There is a "holding area" between these 2, one had large ulua. Tide was low during my visit. Warning sign says don't walk along walls during "high tide" or "high waves" (don't recall which). Permanent sign describes preservation of ponds and lists species - turtles not among them. Photo taken of sign. Bay here is called "MAKAIWA BAY". Leslie says there are "lots of turtles" in Bay. When asked how many is a lot, she said a family of 5 - but not all seen at one time. Later she referred to "a big one" ~ 18". She has never seen a 300 lbs, 36" long.

3/18/84 At 10 am while I was talking
 SUNDAY to Leslie, the glass bottom boat
 was motoring slowly back and
 forth off the lava reef bordering the
 Bay. Pete Hendricks was driving.
 Leslie's husband sees turtles
 off Maunaloa Kea and rides them,
 but he likes to go to Puako
 where there are more.

In walking along the edge of the
 bay with the tide down, I
 saw no Pterocladia. At southern
 end, past boat ramp, there were
 few patches of Ulva. Also, rocks
 intertidal had a mat of
 red alga (like seen at Kaloalawe?).
Considers - nutrient runoff increase
 from fertilizing, vegetation etc.
 with existence of Mauna Kea
 has caused "more" algal growth
 for turtles? No "pond weed"
 or "phytoplankton" problem seemed
 to exist in the ponds, as far
 I could tell.

Met scuba tour guide Susan We
 Husband works at Mauna Kea
 Beach Hotel. She knows turtle
 holes - would help in a
 tagging effort.

3/18/84
SUNDAY

Pete returned in glass-bottom boat. His assistant (Mike?) fished to work at Mawakea and was the one who found the turtle wrapped in a net while sailing. Bryan Wyatt, Purchasing Agent, called me about this. It was held for awhile in a "holding tank" normally used for koi carp.

While out today, one of the tourists saw the turtle Pete told me about with a completely missing front flipper. Shortly after the glass-bottom boat returned, Pete departed in the large catamaran to a "Sail/snorkel" to Luako, where he also sees turtles. Invited me.

Jeslie mentioned that tourists love to see turtles, and they do to.

Returned to Hilo departing Mawakea ~ 11:15am. Tried calling Diane, Walt & Leon, but no answer!

Departed on Mid-Pacific ^{FL 49} at 2:45 pm.
Arrive ~ 3:55 pm.

CONTINUED FROM P. 31

- Needs (1) WD - check + PBS letter (2) Rubber paint for dive gear
 (3) Miles mop check (4) ^{DIVE LOGS} Cancel Miles after March (5) WA
 lens for Punaluu (6) Photos of restaurant (7) Reserve
 Van & Pavilion ^{Apr 14/15} (8) Formalin (9) Condo ^{Address} (RESPONSE)
 Address (10) Brewer - Sea Mountain - Address (11) Note TO
 HERB KANG - "LADY CRYING" (12) ^{"KEY"} POINTS TO MENTION TO
 Filming TERMS (13) INTERVIEW ROXANNE (14) CLOTHES AT
 KEWALO (15) Request results from LISA (16) Collect algae/invertebrates
 (17) April/May Tide charts (18) dissect neck of turtle (19) Wright lay
 Report - read it (20) Walt - water analysis (21) More Brochures
 for tourists + poster for wall (22) Postcards to ... (23) FINE
 Sand paper (24) Proper sign ^{merging line} (25) Photos
 from cemetery (26) Punaluu sign; coming down the hill ^{MACADAMIA ORCHARD, SUGAR}
 Homopuu; Johnson Ford; (27) Show everyone painting in
 restaurant (28) KAU news? (29) Call Supe ^{Thable hookakua line;}
 (30) Punaluu post cards (31) Scalpel blades (32) Lecture Thurs. night 4/12
 (33) Glass vial - + small vials for fat for Ackman (34) Nat. Hist. lecture at
 Punaluu (35) larger field data book (36) Walt - remind about H₂O quality
 (37) Short hose for Pavilion 2 (38) Dive Homopuu - ^{Mile} Lay dive hehe?
 (39) Sell wet suit pants & Imperial jacket (40) Kora Village -
 Fred - Druer (41) Shipman (42) Halepa ^{HVNA} (43) See Davidson - 3-20
 (44) April Tide Chart (45) PO's for ^{HANGER} van & groceries (46) visit N. Kohala
 (47) "Turtle BACK" - PATAHA (48) Salazar article (49) Aerial survey
 (50) Vases print - Lukui book (51) Kahala residents know about
 gill nets in Punaluu? (52) Get Manual ed. I back (53) Menwin - Pual
 (54) Taken off tag 3/89? (55) 3-2-1 - contact Magazine
 (56) Kamehamele - Bud Doty (57) Scuba Tagging's nos. without
 me (58) Gas reimbursed - ^{RICHARD WALTER} DARRELL (59) TOTAL NO.
 tagged in old expeditions (60) Light at Rental agency <sup>PRU. or 928-
 MES. PULHAM 830</sup>

CONTINUED ON P. 115

Green
data book

22 MARCH 84

Thursday

~ 6:45 pm FC 112 Mid-Pacific

depart for HILO.

#3000^{PO} Harper van "74" 1982 Bora.
 waiting parked at airport. Checked
 in at Hilo Hotel Rm 111 \$16.

3-23

Friday

Called Suse's office + W. Dudley;
 Drove to MOP at ~ 10:30 am.
 Discussions planning at office.

Had lunch on campus. Loaded

van, picked up ice, Chris,

Bill, Brooks and 'Loretta' and

we shopped at KTA -

~ \$11.00 groceries - \$38 credit (see
 Richard); (used on 3/29)

Drove to Punaluu arrive ~ 5 pm
 at Pavilion - Geneva arrived a
 short time later.

Chris and Dr^{Bill} set out 1 net
 at right (site #1) at ~ 6:30 pm.

- 1 First capture at ~ midnight - no tags;
 - 2 Second ~ 2:15 am 3/24 - has tag
 - 3 Third ~ 4:15 am tag 2877
- Data for these three turtles on
 the following pages:

List of PARTICIPANT - PUNACU 3/23 - 3/28

1. Coretta Mazaraki's
2. Bill Brooks
3. Chris Doll
4. Geneva Sander SR8-1271 KEAAU 9674 966-8883
5. Miles
6. Bob
7. Dawn MINAN, 2300 KILAUEA AVE. HILO 96720
(TEL. 959-4615)
(959-7508)
8. CRAIG
9. NANCY
10. Richlyn FONG
P.O. Box 95
HILO, HI. 96721 TEL. 935-8009
11. ROXANNE ADAMS FAMILY AMAKUA - "TURTLE"
(SAME AS RICHLYN) FATHER - PARKS MAN
ON MOLOKAI FOR PALAU.
12. "G" GEAR
P.O. Box 18826, PORTLAND, OREGON 97207
13. Dave ("million turtles at Honolulu")
14. Bob (Robert P. WHITE #13 Standard Oil Hill, Box 442,
DUTCH HARBOR, AK 99692)
15. PUNCHY KIM

ROSLYN MORESH
P.O. Box 493, PAHALA 96777

(knows people who take turtles; - poss. source
of tags; BONE REMAINS - KAWA)

- Caretaker of Dahlberg property -
- Stopped to visit Stephanie Balazar and her
"Peter Rappa and Margie" Richardson Ocean
- James D. Murray M.A.S. N. Carolina Sea Grant

CAPTURE ① (not necessarily consecutive order of catch - just a tabulation)

53

NIGHT I - 4:15 am
B/WB-3/24 midnight -
RECOVERY

8/78 Horseshoe
& 12/83 net

2877 S - 61.1 x 49.3

NOTCH - 60.9

2879

C - NT.

7533₅
(ENCrustING
GROWTH)

PL - 48.8

HEAD - 9.3

TAIL - 13.1

WEIGHT - 73 lbs. (33.2 kg)

SPRAY PAINT NO. "1"

NIGHT 1
Recovery 3/23-3/24 midnight
 (ORIG TAGGED 1/10/84)
 PUNALUU NET

7601 S - 63.3 x 48.9
 notch - 63.0

7602

C - NT

7603

PL - 50.1

HEAD - 9.1

TAIL - 13.5

WEIGHT - 76 lbs (34.5 kg)

Spray paint "2"

3/27 Scuba 7 seen swimming underwater

NIGHT 1

3/24 22am

7648 RFL

S - 73.2 x 59.2

Notch - 72.9

7649 R3-4

C - 78.5 x 74.3

7650 LFL

PL - 58.6

HEAD - 11.8 , 11.4 , 11.3

TAIL - 14.0

C Flipper width - 12.9

WEIGHT - 121 lbs (55.0 kg)

no blood obtained - numerous attempts.

FAT obtained - left groin

3 burrowing barns PC - off

PAINTED NO. "3"

3/24 SATURDAY

SAT Miles and Bob and Dawn arrive in the morning; wind blowing to hard for scuba.
Right net taken out ~ 2pm - bad tangles and holes - reset ~ 4pm.

~3pm Miles, Bob, me, Loretta and Geneva drove and dove at Horseshoe, Johnson's Pond and Small hole (with surf (name?) Pond that used to be bel. behind last site is now all filled in from hurricane GWA. Campers all set up at Horseshoe. Low tide during dives, but no turtles seen.

3/24-3/25 Captures in nets as follows:
SAT. SUN (NIGHT 2)

~11:15pm - Dave Chris & Loretta
1 turtle left net > NO TAGS
1 " right net

~12:30am - 1 left
ME, CRAIG, NANCY 2 Right (1-49 - Recovery) ERUPTION!
MADINA COA

~3am 1 small
DIANE & Darrell

~4:30am 2
7 total Darrell, Roxanne, Geneva, Loretta

NOTE 7651 NOT RECORDED OR
NOT USED, WHEREABOUTS? 59

NIGHT 2 NET
3-24/3-25 DATA:

CAPTURE (4)

Turtle
in
Hilo
pond
see
earlier
pages

S - 61.9 x 50.5
NOTCH NT

7652LFL

C - 68.0 x 62.0

7653RFL

PL - 49.6
HEAD - 9.3
TAIL - 13.5

WEIGHT - 82 lbs (37.3kg)

PAINTED NO. "4"

Blood - YES

FAT - left HAND - YES

Photos Roll 1 #21-24
("green algae")

Lengthy time to "process" - lots of tourists
and questions - handed out STRF brochures

Classical questions were:

1. Are they alive?
2. Are they sedated?
3. How old are they?
4. How do you catch them?
5. Are they male or female?
6. Where do you catch them?

"Questions of the week"

1. How do you kill them?
2. You guys cutting out hoolouves?

"Turtle PinBall"

3/25 Both nets taken out most of day
SUN for mending and untangling. Punchy
helped mend.
on 3/24 Sat, single net out - tangled -
then 2 put in.

cont. p. 62

NIGHT 2

3/24-3/25

SAT SUN

S- 71.6 x 57.8

7654 LFL notch- 71.3

7655 L3-4th

C- 76.0 x 73.2

6th R mag. - healed
injury - deformed

7656 RFL

PC - 57.1

HEAD - 10.9

TAIL - 15.5

Burrowing barns removed from PC - 1

WEIGHT - 100 lbs (45.5 kg)

PAINTED NO. "5"

Blood - NO

FAT - YES LH

Photos #25-26

3/27 Scuba 7 seen swimming underwater;
and on the surface by Dawn.

from p. 60 -

note - single-point hook seen imbedded
in a turtle - Miles et. al. dive.

3/26 2 nets taken out about noontime,
Mon. for 1 night break.

- 6 pm walked to Johnson Pond and
bay before with Chris. Saw 1 small
"feeding" in JP; left thereafter. Walked
to filled-in pond and strong-current area
with white log on shore. Saw 2
small, 1 medium feeding;

3/27 Scuba 6 (7 for me) - 45' 50 minutes -
TUES just N of Turtle Bay; 1 small seen
and chased (circled a few times); 1 large
caught resting under ledge. Rough

Scuba 7 (2 for me) - 45' 45 minutes
Right of channel - Rough.
3 caught (2 beached). Saw
pointed 2, 5 and 8. AT the
surface Dawn saw 5, 8, 21.
Also saw 1 small & 1 large
with tags. (2-3rd Scale?)

3/27 from 11 am Temperature measurements by
Chris - Surface - 24°C
Bottom 25°C
(need to do this myself)
Inshore and offshore, as far as net buoy.

NIGHT 2
3/24-3/25
SAT - SUN

S - 63.8 x 49.2
NOTCH - 63.5

7657 RFL

C - 68.5 x 61.1 left 6th deformed

7658 R3-4th

7659 LFL

PL - 51.2
HEAD - 9.7
TAIL - 13.0

WEIGHT - 79 lbs (35.9kg)

PAINTED No. "6"

FAT - LH YES

Blood - ~~no~~ YES

Photos Roll 1 #27-29

Backnote
On ^{night} Day 1, Chris saw a turtle
as soon as he entered the water
while going out to the net.

on 3/28 6:50am Darrell saw a
large turtle ~20' from shore.

Bob from Alaska pointed out
old rusted runners of barbed
wire in flow behind pavillion. Set
during World War II?

NIGHT 2
3/24-3/25RECOVERY (CRIG. TAGGED 1/8-1/9/84 PUNALOU)S - 69.3 x 57.5
notch - 69.0

4966

C - NT

4967

PL

4968

HEAD

NT

TAIL

4969

WEIGHT - 107 lbs (48.6 kg)

PAINTED NO. "7"

Blood - not taken

FAT - green - Good sample LH

no photos taken

RECAPTURE

5-16-84

RIGHT NET ~ 5:30am capture -

(7)

close-up photos of healing fat biopsy; All 4
tags present - look good! LFL

SHPaley

S 69.8 x 57.0

69.5

C - 74.5 x 71.5

NIGHT 2
3-24/3-25

S-74.5 x 60.7
7660RFL notch NT

7661R3-4th

C-79.0 x 74.3

7662LFL

PL-58.5
HEAD-11.0
TAIL-20.0

WEIGHT- 118 lbs. (53.6 Kg)

FAT- YES
Blood- YES

Photos taken

PAINTED NO. "8"

3/27 Seen sleeping in recess on Scuba 7;
Also by Dawn at the surface.

⑤

note - ^{nearly} All have numerous Platykepus

5 THRU
28-8-45

8-44 x 60.7

tu

FLOOR

4-13-45

6-41.0 x 44.3

4-13-45

45-28.2
HEAD-11.0
TAIL-80.0

WEIGHT - 118 lbs. (53.5 kg)

FAT - YES
PLUG - YES

Intake taken

Labelled no. 8

3/23 - Seen sleeping in crevice on beach
also 1/2 hour at the surface

NIGHT 2

3-24/3-25

S - 55.0 x 43.1
notch NT

7663 LFL

C - 58.5 x 51.4

7664 RFL

PL - 43.0

HEAD - 9.0

TAIL - 12.5

WEIGHT - 55 lbs. (25.0 kg)

PAINTED NO. "9"

FAT - yes

Blood - no

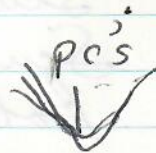
Photos #34 Roll 1 on the rocks:

Pink scolline on carapace

20 burrowing from PL
I from carapace

NIGHT 2
3-24/3-25
SAT SUN

S - 77.6 x 63.8
notch - 76.4



7665 RFL C - 82.0 x 77.6

7666 R3-4th

PC - 60.5

7667 CFL

HEAD - 11.5

TAIL - 23.5

WEIGHT - 142 lbs (64.5kg)

PAINTED NO. "10"

FAT - YES
Blood - NOT ATTEMPTED

Photos Roll #1 35-36

3/25 Sunday am Wind down some

Scuba #1 ~ 9am ^{capts} (11) = 1 ^{Turtle} small capture

Scuba #2 ~ 11:30am ^{capts} (12) = 1 large capture

Bob, Miles, Jain, Craig, Nancy

Scuba #3 1 ^{capts} small (14) & 1 large ^{capts} (13) capture

3/25
Sun Scuba 1

S- 44.5 x 37.0
notch- 45.2

7672 RFL C- 48.6 x 43.0

7673 LFL PC- 37.5
HEAD- 7.3
TAIL- 10.0

PC- 37.5
HEAD- 7.3
TAIL- 10.0

WEIGHT- 33 lbs (15.0 kg)

PAINTED NO. "12"

FAT - NO
Blood - NO

Photos Taken

3/25 Scuba #2

S-78.9 x 64.5

notch - NT

7668RFL

C-85.0 x 84.2

7669R3-4th

PL-66.0

7670 L3-4th

HEAD-12.5

TAIL-19.5

7671 LHing

WEIGHT - 175 lbs (79.5kg)

41 burrowing barns removed

PAINTED NO. "11"

FAT - YES

Blood - NO

Photo - #37

PC's curve down - old injury

Capture (13)

& capture 77

Recovery (24)

Scuba 2

3/25

Sunday
+ J

S- 84.0 x 62.5
notch- NT

3/25-3/26
NIGHT 3
NETTING

C-88.5 x 82.0

7674 RFL

PL- 65.3

7675 R3-4th

HEAD- 11.5

TAIL- 43.0 MALE

7676 LFL

7677 R HAND

WEIGHT- 169 lbs (76.8 kg)

PANT- white smears

Blood } no
Fat }
Photos

RECOVERY from 4/10/84
 3/25
 SUN. Scuba #3

7604 S- 48.7 x 39.8

7605

C- NT

WEIGHT - NT

PL - 38.9

PAINTED NO. "13"

Blood - fats none

Nets out all day 3/25 Sun.
 Not necessary to take them
 out - no bad tangles.

NIGHT 3


3-25/3-26

8-10 pm shift - Bob & Nancy

4 net captures -

1 - smear from scuba

CAPTURE 13

2 - other captures (1 - )

1 - small

10-12 shift

1 - small, no tags.

1 - Tag 67 -- recapture

12-2 shift - Chris - Richlyn

~ 1:50am - 3am me & Chris

1 - 2885

1 - recovery

+ 2 = 4

no captures thereafter

10 TDIAL

AS Follows:

NIGHT 3

3/25-3/26

SUN MON

S - 58.0 x 25.2 ?
NOTCH - 57.5

C - 62.2 x 55.3

7681 LFL

PC - 44.8

7682 RFL

HEAD - 9.0

TAIL - 14.5

7683 R34thWEIGHT - 57 lbs (25.9kg)

FAT - YES

PAINTED NO. "15"

22 burrowing from PC

NIGHT 3

3/25-3/26

SUN. MON

7678 RFL

S - 61.9 x 51.2

NOTCH - SAME

7679 R3-4th

C - 65.5 x 63.0

7680 LFL

PL - 49.8

HEAD - 9.4

TAIL - 11.0

WEIGHT - 79 lbs (35.9 kg)

FAT - YES

PAINTED NO. "14"

RECOVERY
NIGHT 3

(ORIG. TAGGED 2/17/84 HORSESHOE)

3/25-3/26

SUN MON

S - 47.9 x 36.9

Notch - NT

C - NT

7623

PL ✓

HEAD NT

7622

TAIL /

WEIGHT - 37 lbs (16.8 kg)

FAT - YES

Photos 2-3 Roll #2

PAINTED NO. "16"

3 burrowing from PL

NIGHT 3
3/25-3/26

S- 52.4 x 42.0
Notch- 52.0

7684 RFL

C- 55.5 x 50.0

7685 LFL

PL- 42.0

HEAD- 8.4

TAIL- 8.0

WEIGHT- 45 lbs.

FAT- YES

Blood- NO

PAINTED NO. "17"

No Photos

4 burrowing in PL

RECOVERY

NIGHT 3 "2896 2897"
 3/25-3/26/84 (ORIG. TAGGED 9/2/78 "JOHNSON'S POND - HALL COKE")
 SUN MON 42.9 cm SKIN DIVE
 S-69.5 x NT severely deformed, but healed
 notch - 69.0 (same recorded 9/2/78)

2896 46.0 cm
 C-75.4 x NT

2897 PL-52.8
 33.0 7.0
 HEAD-10.6 7.0
 TAIL-14.6
 26.6 cm INCREASE

5 yrs. 7 mon.
 (67 mos.) = WEIGHT - 97 lbs 44.1 kg
 0.397 cm/mo (22 lbs) 10.0 kg
 Blood - NO
 FAT - NO

PAINTED NO - "18"

3 Burrowing from PL

2896 - red algae covering tag - photo taken⁵

Right flipper deformed - looks like line had been wrapped around it. (same note 9/2/78)

Photos - R2 with children -
 send print to -

NOEL ESPEJO

Box 597

PAHALA 96777

RECOVERY
 3/25-3/26 NIGHT 3 (ORIG. TAGGED 11/26/83 SCUBA-Pavillion)

S-71.8 x 56.2
 NOTCH-72.0

6714

C- NT

6715

PL-56.0

6716

HEAD-10.3

TAIL-8.6

6717

WEIGHT-109 lbs

FAT- YES

Blood- NO

11 burrowing PL

PAINTED NO "19"

Photos taken

RECOVERY NIGHT 3

(LAST CAPTURE 2/19/84)

(178)

3/25-3/26

S - 66.2 x 52.7

2523 (EXPANDED
NEW)

NOTCH-NT

2524

C - NT

✓

7644

PC	—
weight	NT
HEAD	
TAIL	/

FAT - YES

Blood - NO

PAINTED NO. "20"

3/27 Scuba 7 - seen by Dawn at the surface.

RECOVERY NIGHT 3

3/25 - 3/26/84

Sun Mon

(ORIG. TAGGED 8/31/78) HORSES/HOG-SKINDIVE
2884, 85, 86 believed applied - CONFUSION)

off-retained

2885 LFL (NOT - popped by growth,
locked or not locked good initially?)

also callous - RFL (54.9) (44.4)

S - 75.7 x 60.0

notch - 75.5

new tagst

7686 (3-4th)

7687 R3-4th C - (59.4) (52.7)
82.5 x 73.5

7688 RFL PL - 61.0 (44.8)

HEAD - 10.9 (8.6)

5 yrs, 7 mon.

TAIL - 19.0 (10.2)

(67 mon)

WEIGHT - 133 lbs

20.8 cm = FAT - YES

60.4 kg

0.31 cm/mo blood - NO

8/31/78 - 54 lbs

24.5 kg

PAINTED NO. "21"

photos 22-23

4 burrowing in PL

3/25-3/26 night 3

Sun mon

S - 68.1 x 54.0
notch - 6.7.4

7689 RFL

C - 72.5 x 68.5

7690 LFL

7691 R3-4th

PL - 54.5

HEAD - 10.4

TAIL - 17.1

WEIGHT - 97 lbs
(44.1 kg)

FAT - yes

Blood - no

PAINT NO. "22"

Small hole at end of right front flippers.

92 ^{capture (24)} was
Recapture
of (13) (Saba)

"Capture" (25) DONATION

3/26 Monday At ~ 3:45 pm Saba resident "Raymond" brought
a small turtle to us - caught wrapped in fish pole line,
apparently at Johnson's Pond ("this side of filled-in pond") -
Says he regularly sees little ones feeding along here.

7692 RFL

S-38.1 x 30.1

notch - 35.8

C-38.0 x 35.5

PL-28.0

HEAD - 5.8

TAIL - 6.0

WEIGHT - 18 lbs (8.2 kg)

FAT - NO

Blood - NO

PAINTED NO. "23" (not certain if actually
painted)

Heterocladia pieces taken from mouth - saved.

Photos - end of R2, beginning of R3

NO Barbacles

3/2⁷ Scuba 6~~DAY~~Me, Bob, Miles - Dawn
just N. Turtle Bay ~40'
~50 min

- Processed on the beach -

7693 RFL

S - 77.6 x 63.9

notch - NT

7694 R3-4th

C - 81.5 x 78.5

7695 LFL (Through existing healed hole) → old tag hole - left FL

7696 L Hind

PL - 63.5

HEAD - 11.1

TAIL - 20.0

WEIGHT - 157 lbs. (71.4 kg)

FAT - NO

PANTED NO. "24"

Sleeping (resting) sideways under ledge -
We watched each other for some time
with turtle moving.

15 burrowing in PL
PC's broken off, but healed
(from lay-wright tagging?)

photos ^{Roll} 3 old tag hole, barns in PL

45 ft 55 min

Darrell's

Dawn in boat

TO THE RIGHT OF

PUNALU CHANNEL

3/27th Scuba 7 (Me, Miles & Bob -
~~Bob & of Furtley~~
 TUES.

S-89.5 x 66.0

7697 RFL C-94.5 x 87.5

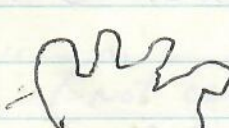
7698 R3-4th PL-69.3

HEAD-12.4

7699 LFL TAIL-27.5

7700 L Hind WEIGHT- 223 lbs (101.4 kg)

PAINTED NO. "25"
 no blood or fat

left hind flipper  but healed

+ separating scale by head?

Photos on the beach R3
 (girl on beach?)

This one bit my arm

Humpback whale sounds heard during dive.

3/27 Scuba #7 Me, Bob, Miles
 TUESDAY (Taken to Pavilion) Same area
 PL looks "thin" - skinny

S - 59.0 x 47.5

Notch - Same

7701R3-4th

C - 63.7 x 57.3

7702L3-4th

PL - 48.0

HEAD - 9.0

TAIL - 10.0

WEIGHT - 64 lbs (29.1 kg)

FAT - NOT ATTEMPTED

Blood - YES (needle 1/2 way in, angle inward - good flow)

7 burrow from PL

PAINTED NO. "26"

- Right flap area - missing proximal
- Left 4th scale + U missing and healed.

Photos - R3

3/27 Scuba 7
 Tuesday

TAG 7576 + ⁷⁵⁷⁵
⁷⁵⁷⁷
⁷⁵⁷²
 read underwater and let go -
 Turtle not beached.

Tagged 12/19/83
 in net

Capture (30)

97

(1 net only)
SITE - 8 #1

NIGHT 4

3/27 - 3/28
Tues wed

- 9pm capture
CHRIS & me

S - 81.5 x 62.5
notch - same

7703 RFL C - 89.0 x 82.0

7704 R3-4th PL - 65.5

HEAD - 12.1

7705 LFL TAIL - 20.0

7706 LHIND WEIGHT - 171 lbs (77.7kg)

no painted no. given

red skin algae

white encrusting scum - all over carapace.

9 burrowing barnacles PL

Photos w/ Bob (Alaska)
24-24 R3

98

capture (31)

NIGHT 4

3/27 - 3/28

TUES. WED.

~~1/1~~~~1/1~~~~1/1~~

~ 4:30 am

Diare &

Darrellen water

Diare & I removed it.

S-75.7 x 60.9

7707LFL C-80.0 x 76.0

7708L3-4th PL-59.5

HEAD-11.5

7709RFL TAIL-21.5

7710 (Hmg) WEIGHT-135 lbs (61.4 kg)

4 burrowing in carapace

White encrusting all over carapace -

Photos - last during 3/23-3/28 Lavalan
expedition.

3-27

3/28
wed

- NIGHT 4 only me, Chris, Darrell,
Diane (and Bob from Alaska helped).

Two turtles processed on the
beach early Am. A third was
seen by me and Bob during our
8-10:30pm watch - had seen coming out
several times. ^{9:30pm} When I swam out,
only tangled net ~~was~~.

Happened night 3 also, according to Chris
Pocillopora seen further away along
bottom of net. This coral
is sparse in bay, but deadly
to net entanglement. Some pieces
are attached to large boulders.

Packed up all gear and departed by
~ 10 pm. For last capture, Darrell
wanted to wait until sunrise and
bring ^{net} everything at once. My concern if
small turtle is caught near large.

Unpacked at boat house & MOP office -
temporarily stored samples in freezer there.
Checked in to Hilo Hotel - room.
Checked and repacked - wrote data.

3/29/84 Wrote data all morning in the Thursday hotel room. Visited with Walt, Diane and Roslyn at MOP office - near - when to boat shed, KTA shopping; left for Puuvaluu about 3 pm - 0; rain - clouded in in Hilo and Waipahoehoe - reasonably clear and sunny in Kauai. Arrived and walked out to Cando rental office - talked to - PRU Sillito ^(KNOWS OF TURTLE BAY) about turtles - she said people are always asking about what to do or see. Receptive to promoting turtles. Sent literature to:

MRS. PAUANI PULHAM
 PUNACU's Rental Management Co., Ltd.
 P.O. Box 70 PAHAEA 96777 (928-8301)

There is a homeowners association.

Left my card with "Sandy" at the small store at tennis courts.

Walked out to Turtle Bay. No canyons around Puuvaluu; no signs of turtle caught in gill "cross" net, as reported to Darrell through Diane, by canyons who were road to Grove by police evening of 3/28.

3/29/84 Took photos Roll 4 (20exp) walking
Thursday out to Turtle Bay ~ 5pm, sun low.

I noted lots of rubbish around cement
slab - also, concrete filing near shore
is similar to one in the middle of the bay,
so pier must have extended into bay.

IRON
NUTRIENTS
INTO
BAY

YEARS OF USE - ? Destruction - ?
Note - ^{Previous} saw Mrs. Howard picking *Hypnea*, small
delicate red, high on rocks during low tide.

Just before Turtle Bay, along side trail,
I found a dried Scapula and other falling-
apart bones of a ~ 16" turtle - no front
limbs: indicative of pectoral meat-associated
bones having been taken. At "regular" bone
area I collected another P.C. bone & scute showing
what a small turtle taken. At fishing overlook
I pulled out 2 iron pins, presumably used
for securing line with turtle is snagged.

Collected a piece of twine.

Consider - Camping at Turtle Bay and using
spot lights to see if turtles feed there.
Consider - destroy overlook.

Question - age of lava flows that
border Seamount? Spaded Puualue Bay.
Saw 3 turtles, 2 small, 1 med. large
in inlets - coastline before Turtle Bay.

Drove to Pavillion and talked to Bob from
Alaska. Examined Pavillion 2.

Drove to Whittington Park - Saw humpback
breach enroute. KAWA - ~ MKE 58.5

Need - "FOR THE RECORD" COOPER/KANOHU

3/29/84 Noted open-chain dirt road just
Thursday past Kawa - need to dig down it.
~ 6:15pm at Honuapu - Met

Send
literature

mother and friend Bert of IVAN &
ATHENA MOUNT, SRB 06223, CAPT.
COOK, HI 96704. They have been
seeing a few turtles surfacing at the
beginning of pier. need to dive off of here.
We walked to the pier and I saw one
small turtle surfacing - 6:30pm. Pavillions
here are small and close together.

Nearshore water is rough - no reef
protection. Probably only possible to launch
a zodiac in very calm weather.

- Did Mike Jay launch/dive here?

Walked to tidal ponds - seem to recall
snorkeling here with Alan Kam.

Children report lots of throw netting
here. Returned to Hilo after
dark - rain and fog - stopped
for a short time at the Volcano
House.

3/30/84 Departed ~ 6:45am with Bob
FRIBBY (guide for Maui) and Pete Hendrick
home. ~ 9.5 miles after Tex's Drive Inn
turn right on 2nd paved road - last house
1/2 mile. Proceeded to Concession
at hotel - saw Scott. Scuba
instructor - Steve. Immediate

MAUNALANI

Rodney Y. Inaba, President
 Kamuela Leisure Corporation
 2170 KUTHIOWE Penthouse
 Honolulu 96815

P.O. Box 4000
 Kawaihae 96743

3/30
 FRIDAY

manager - Francis Ruddle
 Employee Alvin Baptista reported that in the "old days", his grandfather told him turtles were kept in the yard in Kohala to be sold. Fed "Honohono" ^{SP?} (and hoed down with water) gross. They used to be caught in shallow (2') water where they fed on Jimu Kohu - turned over by hand. Hooked, too. They used to go down a rope at a place on the left just before POLOVU(?) Valley.

I asked Alvin "how many" turtles occur off Maunaloani - 10-20, 30? He replied "about 6". But that there are large ones off Puakoo. Steve, scuba instructor, says there is one sleeping spot where 4-5 occur. Pointed out on aerial photo in office

Pete recently heard radio commercial advertising aloe lotion with "rare turtle oil from Caymans".

50'
 50 mins.
 low
 tide

Dive #1 Maunaloani ~ 11:30am - out in glass bottom boat "MALIA" - Bob Faube, me, Steve, Pete, his son Scott, and customer - David - young boy. Followed reef edge inshore where waves begin - followed to north, then out along finger reef - heavy coral cover, large arches, fish, pointed conch.

"STOP SIGN"
ON INNER TUBES
(Darrell)

3-30
FRIDAY

Two turtles seen near reported sleeping ledge 1-~16" 1-20" moved off slowly as we approached. Followed finger seaward and came to beginning of sand/rubble barren area ~50-60' depth. Followed "edge" to the north (right); 1 turtle seen before edge, 2 others along edge. All small - noted coralline ^{PATCHES} on carapace.

Meanwhile, Steve, Scott and David reported seeing 3 at a sleeping place with "3 legs" - seen often. Furch with Leslie - photo taken.

DIVE #2 ~3:30pm, just Bob and I in 60' 13' zodiac. Tried to locate some general area. Hard to locate due to high tide and increased silty water, low visibility. 8 sightings made, perhaps 2-3 same. Seen resting on porites, or swimming free. One resting/sleeping on porites I'd get fairly close to, but not before it moved off. No tags or graffiti noted. All seen were ~16", only one ~20". We chased small ones, but they circled back and stayed their distance.

Departed Mauwaiani about ~5:30pm.
Alvin knows of 1 turtle in the pond nearest the office.

3-30-84 The turtle comes to the Makaha
 Friday at high tide, but scares away easy.

3-31-84 Called Blackshear at 7am - he felt
 SAT it was too rough weather. Organized
 with Miles to Dive at Honolulu.
 Motored from Suvaan across bay (Bob, Miles and me)
 photos of lava above the city. Surf
 swell heavy off Honolulu - but little
 wind - sea is smooth. Found the
 pile of boulders where we saw the
 turtles last time

DIVE #1 Honolulu, 50', 45 mins. Noted again
 lots of Amansia on the rocky bottom.
 Heavy surge, very low visibility; it
 would be impossible for turtles rest
 by rocks. Swam seaward, and
 found low rock ledges at ~50' depth
 mark. Found 2 small turtles
 resting in them 40-50'. Visibility better,
 but still limited. Noted strange
 anemones (?) with white flower-like
 tips. Bob also spotted a small tree
 of black coral at 50'.

DIVE #2 Honolulu 55', 35 mins. no other
 turtles seen, but this was
 short because Bob & Miles ran low
 on air. Noted debris, and some
 plastics along ~50' separation line (ROCK TO SAND)

2 Turtles taken to boat house and
MOP office where data was collected.

3-31-84

SAT. HONOLULU

7711 LFL

S - 52.1 x 41.9
(Notch - 51.5)

7712 RFL

C - 55.0 x 50.0

PL - 40.3

HEAD - 8.2

TAIL - 11.0

WEIGHT - NT

6 Chelonaria on carapace, cluster of 6 on PL
(all removed)

Blood - yes

FAT - yes (vial mislabeled "7511")

photos

3-31-84

SAT. Honolulu

S - 41.2 x 33.5
(Notch - 40.9)

7713 LFL

C - 43.5 x 39.0

7714 RFL

PL - 32.0

HEAD - 6.7

TAIL - 8.5

WEIGHT - NT

BLOOD - YES

FAT - NO

photos

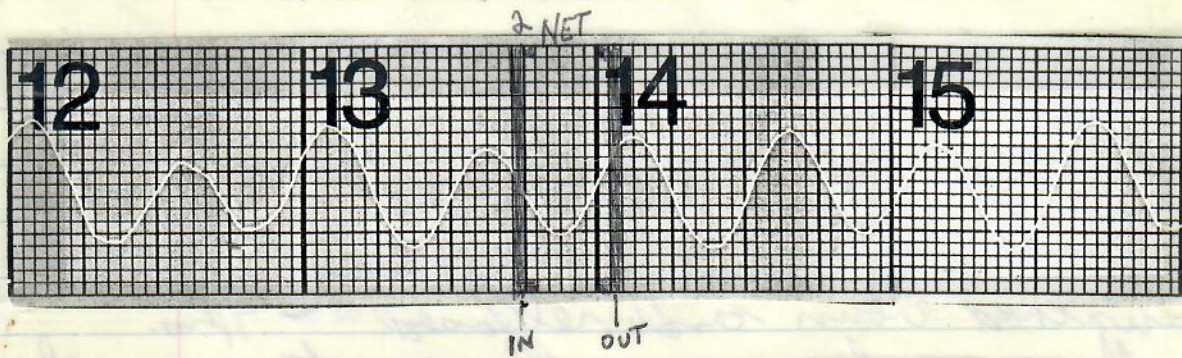
Both turtles taken by car to Honolulu,
walked down and released ~ 4pm.

Many surfers - mostly positive comments
and keen interest. One girl asked if
she could have a turtle to put in a
pond.

3-31-84 Left tags 7615-7625.
 SATURDAY at boat house.

Departed on Mid-Pacific about
 8:15 pm - 7:15 pm departure flight
 was late.

THURS. APRIL 84 FRIDAY SATURDAY SUNDAY



MOON PHASES		For tide time at following places, add or subtract from Honolulu time.					
NEW MOON APR 1, 30	FIRST QUARTER APR 8	PORTS	Hrs.	Mins.	PORTS	Hrs.	Mins.
FULL MOON APR 15	LAST QUARTER APR 22	HANAIE 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
		WAIANAЕ, OAHU	+0	16			
		WAIMANALO, OAHU	-1	15			

PUNALUU

4-12-84 Depart MID-PACIFIC AIR ^{FOR HILO} Flight 48
 Thursday ~ 1:15pm; Unable to get on PL. 44 ~ 10:15am.
 Arrive ~ 2:15pm; Picked up Harper
 van and checked in at Hilo Hotel - same
 Rm 111. Met with Larry Engle at 3:30pm
 to discuss TV filming 3-2-1 contact.
 Went to MOP office at 4:15pm.
 Toshi showed slides, Walter showed an
 un 8mm movie and I showed/discussed
 slides of "docent" talk. Afterward I
 met with various students in MOP
 office - discussed Herb Kane's letter,
 report of snail turtle accidentally
 taken in gill net set in Punaluu
 the night we left last trip. Jane
 reports someone saying that they
 could make a net like ours.
 Howard Takata visited for awhile.
 Expressed concern in Nancy's article about
 turtles getting warm on their backs.
 Note - Several of Toshi's photos need to be
 duplicated - me underwater with Miles,
 Lisa, Bob, Miles, will in Zodiac;
 Dinner at Chinese restaurant.

4-13 Loaded gear at boat house with Punchy
 FRIBBY and Bob - zodiac on aluminum boat
 Went shopping at KA, departed at
 ~ 1pm for Punaluu - pavillions 2 & 3 -
 Met film crew Larry Engle, Frank Marino

4-13-84 Diana +. Set up nets in tube -
 Friday Site #1 out at ~4:30 pm - filming from
 Lurchy's boat. Richlyn & Darrell drove their
 cars - Student in attendance included -
 ① Richlyn ② Rosanne ③ Boblaube ④ Willy ⑤ Toshi
 ⑥ Coretta ⑦ Diane ⑧ Darrell ⑨ Lori ⑩ Scott.

Saw turtles close to shore feeding -
 high tide? Net at these times during the day?
 Site #2 net, red plastic floats, set to
 the ~6 pm. ~9 pm Will and I
 dove at Horseshoe & Johnsons. One
 untagged (7750, 49) caught at the bottom sleeping,
 2nd one seen - swam away quickly. I
 should have blinded it with light - without
 there was too much moonlight and it clearly saw
 me. Large swell at Johnsons ford. Caught a
 tag recoveries 7639-7640 caught 2-18-84 by
 Willard D.

Shortly after midnight Babala drinks & doppers.
 4-14-84 became abusive verbally to women - a "James"
 SAT. AM. poured beer on Darrell's head while in sleeping bag
 fight ensued - then another between the 2 of
 them. I drove him and Diane to Babala hospital
 eye bruised - didn't want to go in - returned and
 they left for Hilo - packed up gear and
 moved to TV-studios at cards. Bob
 and I got a turtle out of site #1 -
 no tag - subadult - released outside
 net. Another in site #1 - Tag 1
 → 7537-39 - also released outside.

4-14 Untied from anchors and brought in net into tube.
 SAT. At site #5 subadult male swimming hard
 in net - not caught well - probably no tags -
 I tried untangling it in the water - pulled
 mask down - caught fins in net - lost scuba pro
 light. Turtle did get out. Brought net in
 and slept at Condo. Prior to leaving beach, 2 Pahala
 Police came (1 - Sgt. Gomes) - Diane had called
 them after receiving threats of rape. Beer
 allowed in county park?

Departed Condo at ~ Noon - During
 the morning, we did filming at the beach -
 tag and release. Walt came, but wind
 came up blowing right in - rough offshore -
 yesterday windline was out side. Gave
 Punahoa legend to Mrs. Emigues - reminder to
 Mrs. Howard. Packed gear at boat house -
 Checked in at Hilo Hotel; ate at Chinese
 restaurant - went to sleep early.

4/15 SUNDAY up ~ 7:30am - wrote up data - repacked
 gear - met Diane at MOP office ^{Finer than last night} - present - some
 didn't realize advances on women. Items left at
 MOP office (1) Sleeping bag, ^{old} AIR MATTRESS & sheet (2) BLUE COOLER w/
 tissue sampling + blood + brochures (3) Centrifuge (4) NEON (5) Cardboard
 box w/ gloves & 6V battery

Depart Mid Pacific FL45 11:40 am - arrive
 - 12:50 pm

4/18
Wed

Call from Leon Hallacher, 961-9364, saying
 that ^{Nelson} Moses, his ^{TIPUK} student had spotted
 fresh guts on the rocks near
 Richardson Center said to be
 from a turtle. Leon felt that people
 nearby may have been responsible - acted
 strange. I telephoned Margie Mae
 at Richardson on Thursday morning
 after talking to Leon. Margie - 935-383
 She agreed to collect a sample.

4-13-84 Horseshoe - Willy and I ~ 9:30 pm.
 Release 4-14 at Purgum Bay (Scott-Lovin) - Filming

7749 LFL

S - 55.8

7750 RFL

C - 60.0

~ 10+ burrowing kills in sarapace -
 many on R, but not killed.

No weight or anything else due to
 stress, exhaustion etc - filming.

Photos of me and Robin ^{taken} by photographer
 Boone

 SITE 2 NET

4/14 ~ 1am CAPTURE (3) NET ~ 70cm NO SIGN OF BEING A MALE

SITE #1 NET

4/14 1am CAPTURE (4) NET RECOVERY 7537-39 [12/17/83
 SCUBA OFF
 PAVILLION
 - male -]

SITE #2

4/14 ~ 1:30am CAPTURE (5) NET ~ 80cm + MALE - TAIL STARTING TO
 LENGTHEN
 NOT TAGS NOTICED - BUT ADEQUATE
 EXAM NOT MADE

+
 1/9/84 site #2 net

+ 4/14/84 site #1

4-13-84 Johnson's Pond - Willy & I
 (Scott, Lori assisting)
 Recovery

7639 S- 44.5 cm

7640 C- 46.5 cm

NO OTHER DATA TAKEN (Planning) Released at Punaluu

Blood attempted in van at Cordo 4/14
 morning - but couldn't get any.

→ 2/18/84 originally caught and tagged - Johnson's pond -
 released Punaluu

Blood samples EXPED. 5
3/22 - 3/31/84 EXPEDITION

	vial no.			SCC
1.	7652-53	- Punaluu	3/24	61.9
2.	7660-62 (2 vials)	- Punaluu	3/24	74.5
3.	7701-02 (2 vials)	- Punaluu	3/27	59.0
4.	7711-12 (2 vials)	- Honoulii	3/31	52.1
5.	7713-14	- Honoulii	3/31	41.2
6.	7657-59 (2 vials)	- Punaluu	3/24	63.8

CONTINUED FROM P. 50
NEEDS - ① SISORS ② Light bulbs for Pavillion ③ SAND for Klem
④ Move Kewalo clothes ⑤ Money for Robin's T-shirts?

FAT SAMPLES - given to Tony BAZAAN #/4/84

1. 7652
- ✓ 2. 7681 3/26
- ⊗ 3. 7678 3/26
- ⊗ 4. 7622 3/26
5. 7668
- * ⊗ 6. 4966
- ⊗ 7. 7663
- ✓ 8. 2523 3/26
9. 7654
- ⊗ 10. 7660
- ✓ 11. 7689 3/26
12. 7657
- ⊗ 13. 7665
- * 14. 7648-SD (Reported by BAZAAN TO BE
Lean, tough tissue)
- ⊗ 15. 6714 3/26
- * ⊗ 16. 7511 (ON VIAL) (ACTUALLY IS ^{TAG-}7711) - HONOLII
- ✓ 17. 7684 3/26
18. 2885 3/26

⊗ SENT TO Ackman 7-26-84. (8 TOTAL)
All returned from BAZAAN.

* Actually analyzed by BAZAAN - no organochlorines found - nothing detectable.

PHOTO LOG

2/19/84 Photos of POND Turtle at KUTHIO GARDENS

ROLL

3/17/84 ~ 15 already taken on roll (Christian by Gray skull; -
 of 3/17 Tag 7645-47 in boat with
 Will, Miles & Dawn; 3/18 Photos of
 Mawātani and fishponds

3/22-3/31/84 EXPEDITION - 3 rolls

4/12/84 EXPEDITION - ^{Roll} End of roll of 20 - Letha in KTA
^{Roll} 36 Roll ^{4/19} around the picnic table; ^{4/14} STUDENTS BRINGING
 IN TUBE w/ ANCHORS 4/15 - H.I.O. BY AREA -

8:38 FRIDAY, FEBRUARY 10, 1984

SAS

OBS	TAG	LOC	SPECIES	MONTH	DAY	YEAR	TEMP	SCL	SCW	TL	WT	TLEVEL	BND	SEX
1	2877	Hawaii	C. mydas	12	17	83	.	60.2	.	.	31.4	110.9	9	M
2	7534	Hawaii	C. mydas	12	17	83	.	68.2	.	.	44.1	8.8	80	F
3	7537	Hawaii	C. mydas	12	17	83	.	56.1	.	.	24.5	68.3	32	M
4	7540	Hawaii	C. mydas	12	17	83	.	56.3	.	.	18.2	84.2	27	M
5	7550	Hawaii	C. mydas	12	18	83	.	66.4	.	.	40.0	91.1	29	M
6	7595	Hawaii	C. mydas	1	8	84	.	46.7	.	.	16.8	40.0	44	M
7	7597	Hawaii	C. mydas	1	8	84	.	58.8	.	.	48.2	73.3	30	M
8	4966	Hawaii	C. mydas	1	9	84	.	69.0	.	.	67.3	110.9	7	M
9	5501	Hawaii	C. mydas	1	9	84	.	75.3	.	.	34.1	9.0	91	F
10	7601	Hawaii	C. mydas	1	10	84	.	62.8	.	.		9.0	83	F

11	7624	Punaluu, Hawaii	C. mydas	2	17	84	.	41.3	.	.	.	12.3	13.2	88	F
12	7622	Punaluu, Hawaii	C. mydas	2	17	84	.	47.7	.	.	.	15.5	92.6	35	M
13	7620	Punaluu, Hawaii	C. mydas	2	17	84	.	45.2	.	.	.	14.1	168.3	21	M
14	7613	Punaluu, Hawaii	C. mydas	2	18	84	.	73.5	.	.	.	60.4	1138.2	37	M
15	7617	Punaluu, Hawaii	C. mydas	2	18	84	.	62.0	.	.	.	34.1	159.1	22	M
16	7609	Punaluu, Hawaii	C. mydas	2	18	84	.	68.0	.	.	.	43.7	13.2	100	F
17	7638	Punaluu, Hawaii	C. mydas	2	18	84	.	61.5	.	.	.	33.2	13.2	90	F
18	7641	Punaluu, Hawaii	C. mydas	2	18	84	.	63.5	.	.	.	37.3	13.2	88	F
19	7644	Punaluu, Hawaii	C. mydas	2	19	84	.	65.5	.	.	.	42.7	685.5	42	M

18 Males
7 females

IMMATURE =

ADULTS =

TAG Summary

23-28 MARCH 84
PUNALUU

NEW TAGGINGS

20 NEW TURTLES

EXPED. 5

PREVIOUS TAGS THIS PROJECT
8

OLD TAG, PRIOR TO THIS PROJECT

2

SUBTOTAL - 30 (3 Adults; 2 ♀, 1 ♂)

REPEAT RECOVERIES, THIS EXPEDITION
1TOTAL CAPTURES
ENCOUNTERS - 31

EXPED. 6 13-14 APRIL PUNALUU

NETTING - 7pm - 1pm = 6 hours

FULL MOON

3 captures (1 short term)
rec.SKINDIVING - 2 captures (1 short term)
rec.TOTAL = 5 CAPTURES, 2 of which were
short term recoveries. OF the 3 untagged -
only 1 got tags - (skindive capture) the other 2 had to be
released untagged.

NO BLOOD - NO FAT.

