

BIG ISLAND
PUNALUU

1989-1990

BALAZS
992-A Awaawanoa Place
Honolulu, Hawaii 96825

ALOHA- OAHU
836-1111
Big IS. 935-5771

HONOLULU LABORATORY
Southwest Fisheries Center
2570 Dole Street
Honolulu, HI 96822-2396

Tel 808-395-6409

Protect Sea Turtles.
Report Violations to:
541-2727, 548-5918 or
Enterprise 5469

See p. 119 data table

14 CAPTURES w/4 Recoveries

10-12 APRIL 89 = RECOVERIES ① 2899, 2926 (Y-180)
PUNALUU #11
P.1-24

- ② 7540, 41
- ③ 7599, 7600 (Y201)
- ④ 3041, 6164 (Y205, 206) ^{FFS} (ENT. NO. 41) MALE

PUNALUU #12 (See p. 111 data table)

9-11 APRIL 90 .. P.25 (data)

12 captures P.47 (narrative)
w/5 Recoveries P.2 and P.112 (NOTES)

- Recoveries ① 7550, 70, 71 (Y649) ¹²⁻¹⁸⁻⁸⁹ BY 400
- ② 6360, 61 (Y650) ADULT MALE
 - ③ 2899, 2926, Y-180 _{4/189}

(DATA TABLES START P.43 #)

17-18 JULY 1990 PUNALUU #13

P.50-

12 CAPTURES w/7 RECOVERIES



Composition Book • 9 3/4 in. x 7 1/2 in.

Available As:

Item No.	Sheets	Ruling
09-9130	60	College Ruled & Margin
09-9132	60	College Ruled & Margin & Paged
09-9134	100	College Ruled & Margin

TOM-
146.520
Simplex

ESSELTE

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Esselte Pendaflex Corporation.

27-28 NOV. 90 PUNALUU #14 P. 67-87-
17 CAPTURES w/12 RECOVERIES
KATAHIRA =

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

Tel. 808-395-6409

NO TUMORS - NO LESIONS

Gilmartin - 263-3611 home

LIN - 944-0269

Hallacher - office 933-3364

MOP OH

OIH MOP FAX 933-3355 home - 959-5987
HILO

523
W. LANIKAUOLA
HILO 96720

Punaluu PayPhone = 928-9944 (Ruth)
A.L. Howard - 928-8156

MOP-HILO - 933-3544

John Coney - home - 967-8092

HPA - 885-7321

Need - "float" line for net.

- More & revised handouts - use "protected posters"

- lit. to "Lance" & Pelekapua

- Hawaii Wildlife Newsletter - ^{for} ~~switch~~ fishing

- Sign on County Parks Pavilion
Nitta signs

- Photo of Barry stalking

Big Is - 935-5771

Aloha-Oahu - 8361111

10am → Oahu 548-5918

4/6 HILO DO CARE - 961-7291

TROPICAL =

HARPER =

Forques =

Andy Kikuta (Home) - 959-2656

ORIGINAL
(sign up)

9/83 Coney

2/84 Bill HARLAN
John Coney

24/90
Needs

Gi Watson will bring -
New net
Red float 100' 2 danforth
2 Rebar
line
canope
1 tube

Tide Chart; DATA SHEETS; sighting cards
Film; Big camera MICRONIKKOL
NAPA seal beam
Thermometer
Thow net
Extra lead
Folding chairs
Long Dancho line
ALCOHOL TO STERILIZE
Call Howard

NO TUMORS - NO COBALT

from
4/90

Needs -
- TOURISTS ALERT - handout
Lettering on wetsuit "Fed. Researcher" ?
- summaries of all Lunalu - like Petersen Index
for Kiholo
- Call Seattle net company
- Pictures from Conroy
- T-shirt to Conroy
- Whatever happened to Movel Size 68 / TAG size on FLIPPER ?
37 turtles during 1976 ?

AZOKA 845 44
9 April 90 9:10 AM → 9:51 AM FL 414
2:45 2 247
11 April 90 5:15 PM → 5:55 PM FL 65

Dollars \$20.95
Compact w/AVE

AVIS - 800-831-8000 -

TROPICAL - \$27.95 missing WAGON # 213 16 15
OAHU 957-0800 Tanks

PEROSTAR

APRIL 89

HEIGHT
+0.6 H
+0.1 L

TIME
HONUAPU
-028 H
-019 L

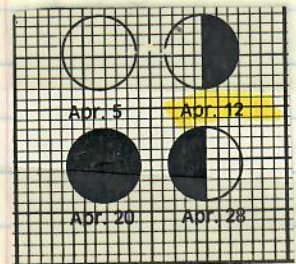
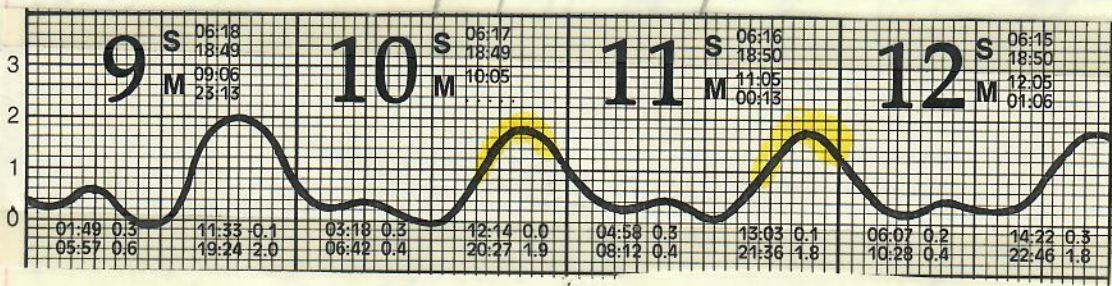
SUN.

MON
NOON

6PM

TUES
NOON

Wed



10 Apr 89 Monday

Arrive Punahele ~ 12:30 pm.

MOP-Hilo - Walter leading this segment.

Choy/Balazs 9:10 FL44 to Hilo
10 bags total (charged \$40).

Harper Cargo Van - \$40 day.

noonward

pm - Turtles seen feeding shallow & nearshore sites throughout the Bay.

2 pm - lead core 6-5' wide 65' net set w/o anchors close to pavilion just outside rocky site where several smaller turtles seen feeding. Several students, Walter, GB & BC swam throughout bay.

Hand caught 6 total, plus 1 tangled in lead core and one with throw net near boat ramp.

Total 8 w/ 1 tag recovery
2899, 2926 (definitive to shell).

At ~ 4 pm 100' foot "1/2 lead" net put out - 1-50' line w/ rebar anchors on underwater piling hoop - aimed inshore to rocky outcrop w/ 100' line to downfath on sand beach.

10 April 89

Monday Canopy w/ chair on beach - High tide ~ 8 pm.
 No turtles in net, and none seen w/ shoreline search.

Net pinned up at 10 pm.

Media crew from UH Hilo - video and

BW still for this pm and
 4/11/89 Tuesday data collection & release

4/11/89 TUES. Small turtles seen feeding by 10 AM in rocky shallow area near pavillion.

Day foraging due to "take" at night? or no harassment taking during the day?

8 turtles worked up and released by 10 AM.

Walter left ~ 11 AM w/ students -
 Leon arrived about 1 pm w/ new students.

Barry, Jean & I drove to Naaleu for lunch. noted tsunami sign in window for Georgia's MOP project.
 Woman in store talked of eating turtle

TUES.

4/11 years ago.

2:30pm 100' unspinned, and lead
core set out closer to "V" deep
area.

Swam around bay in teams trying to
hand-catch turtles. 3 by hand, 1 through net
& 1 hand by Hawaiian "Lance", said he
often rides them. 5 total.

Net left out to ~ 10:30pm. High tide
~ 8pm. No captures & no sighting
of anyone feeding around the Bay!

4/12/89
Wednesday

Turtles noted foraging by
^{9 AM.}
worked up turtles. Video taken by
Naalehu school teacher's husband.

Packed all gear. Leon & students left
by 1pm. Barry & I walked
to Turtle Bay. Photos. Howard
said butchered carcass near cave
from ~ 6 months ago. Pupulu.

2pm ate lunch at restaurant.

Up to 10 turtles feeding - many turtles
- seen by tourists. Bus drivers use
this as an attraction.

3pm we tried to stalk for show

8
4/12/89

wed. netting. Yesterday turtles had quickly become aware of our trapping to catch them. Not as many seen as 4/10 pm.

3:30 pm throw netted an adult male at shallow area right off Sand beach near boat ramp. Lots of tourists came to see and talk. Worked up data and released. Photos taken.

~ 4 pm noted copulating pair by boat ramp. Tourists saw it too. Photos. At ~ 29 minutes I swam out to them. Y-177 with old (red encrusted) tagged male. They broke apart (male released) as I approached. However, female seemed frozen for short time. I grabbed her to read the new tag. Barry took photos of me from shore.

Drove back to Hilo - turned in van and caught Aloha 5:40 pm flight back to Honolulu.

rent

School teacher MARY ARANGUENA
P.O. Box 522
NAALEHU, HI 96772

EMMERICH GROSCH ASSOCIATES, INC.
PROFESSIONAL MANAGEMENT AND OPERATOR
FOR THE HOTEL, RESORT AND FOOD SERVICE INDUSTRY

Punaluu Black Sands
Restaurant
EMMERICH GROSCH, SR.

P.O. BOX 390088
KEAUHOU, HAWAII 96739
(808) 928-8528

Recovered: 7/18/90

NO PRINT

11

4/10/89 PUNALUU #11

CAPTURE DATE, TIME AND LOCATION:

Punaluu Bay daytime

TAG RECOVERY:

NEW TAGS: RFL 4-176 LEL 4-177

OTHER TAGS:

Right hind Fl. 4-178

R3-4 4-179

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH:

74.4

WIDTH:

61.2

NOTCH LENGTH:

73.9

CURVED CARAPACE- LENGTH:

79.0

WIDTH:

75.5

HEAD WIDTH:

10.9

TAIL LENGTH:

19/14.5 to vent

RIGHT FRONT FLIPPER WIDTH:

12.7

PLASTRON LENGTH:

57.9

WEIGHT:

132 lbs. (60 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

Skin barnacles

3 L+R bone fragment protruding

Right upper beak cracked approx. 2" from center

tan

1" fracture

No injuries noted 7/18/90

SAMPLES COLLECTED:

4/12 wed. 4pm - Seen being copulated by old tagged male right by boat ramp. Cop. lasted at least 20 minutes before I swam out to it.

Recovery

PAINT Smear
tan Appliance
Touch-up -
BRUSH in
Bottle

CAPTURE DATE, TIME AND LOCATION:

4/10/89 Punaluu Daytime

↓ * 9-3-78

TAG RECOVERY:

LFL
29-26 exp
RFL 28-99 exp

NEW TAGS: RFL R-3-4

LFL

OTHER TAGS: Y-190

MORPHOMETRICS

43.8cm

37.1

STRAIGHT CARAPACE- LENGTH: 61.2

WIDTH: 51.8

NOTCH LENGTH: - 46.0cm

43.5

CURVED CARAPACE- LENGTH: 72.5

WIDTH: 72

HEAD WIDTH: 10.1 7.0

TAIL LENGTH: 13 7.5 9.2

RIGHT FRONT FLIPPER WIDTH: 11.8

PLASTRON LENGTH: 51.0 42.2

WEIGHT: 92 lbs

24 lbs / 10.9 kg

10.6 yrs
1.6 cm/yr

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

burrowing barnicals on belly

strange shape to shell - severe hump

algae on shell

skin barnicals

Deformed

SAMPLES COLLECTED:

tan paint smear

photos

CAPTURE DATE, TIME AND LOCATION:

PAIN T #3
 4/10/89 Punaluu Bay
 daytime

TAG RECOVERY:

NEW TAGS: REL Y-181

LEL Y-182

OTHER TAGS:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 54.7

WIDTH: 43.5

NOTCH LENGTH: 54.5

CURVED CARAPACE- LENGTH: 58.5

WIDTH: 53.0

HEAD WIDTH: 8.9

TAIL LENGTH: 13.5
9.0

RIGHT FRONT FLIPPER WIDTH: 9.4

PLASTRON LENGTH: 43.0

WEIGHT: 50.5 lbs. (23.0 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

burrowing barnacles on belly 11 destroyed
 pink coralline algae ~ few flecks

tan painted 3

SAMPLES COLLECTED:

CAPTURE DATE, TIME AND LOCATION:

#4 paint
4/10/89 Punaluu Bay
Daytime

TAG RECOVERY:

NEW TAGS: REL Y-183 exp LFL Y-184
OTHER TAGS:

L-3-4 4-185 exp

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 65.7

WIDTH: 53.0

NOTCH LENGTH: —

CURVED CARAPACE- LENGTH: 70.5

WIDTH: 64.5

HEAD WIDTH: 10.8

TAIL LENGTH: 15.5

11.0

RIGHT FRONT FLIPPER WIDTH: 11.8

PLASTRON LENGTH: 52.7

WEIGHT: 94.5 lbs.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

large skin barnacles on R. rear flipper & other

worn beak

mouth full of algae - 10/10 - sample vial 18

burrowing barnacles on belly - none alive

Tan painted 4

SAMPLES COLLECTED:

#5 paint

CAPTURE DATE, TIME AND LOCATION:

4/10/89 Punaluu Bay
daytime

TAG RECOVERY:

NEW TAGS: RFL 4-187

LEL 4-186

OTHER TAGS:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 65.9

WIDTH: 49.9

NOTCH LENGTH: 65.8

CURVED CARAPACE- LENGTH: 70.0

WIDTH: 62.0

HEAD WIDTH: 10.1

TAIL LENGTH: 14.0

9.5

RIGHT FRONT FLIPPER WIDTH: 10.5

PLASTRON LENGTH: 50.5

WEIGHT: Broken scale

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

burrowing barnacles on belly 3 destroyed
 left rear flipper (paralyzed) - no motor control
 - bone detached
 - likely monofilament entanglement -

fan painted. 5-

SAMPLES COLLECTED:

PAINT #6

4/10/89 Punaluu Bay
daytime

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

NEW TAGS: RFL 4-188 LEL 4-189
OTHER TAGS: L-3-4 4-190 exp.

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 63.3 WIDTH: 50.0

NOTCH LENGTH: —

CURVED CARAPACE- LENGTH: 67.5 WIDTH: 62

HEAD WIDTH: 9.7

TAIL LENGTH: 15.0
10.0

RIGHT FRONT FLIPPER WIDTH: 11.2

PLASTRON LENGTH: 49.8

WEIGHT: 88.5 (40.2kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

clear depigmented streak on left side of shell

tan painted-6-

SAMPLES COLLECTED:

4/10/89 Honolulu Bay
daytime

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

NEW TAGS: REL 4-192 LFL 4-191
OTHER TAGS:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 50.7

WIDTH: 39.4

NOTCH LENGTH: 50.5

CURVED CARAPACE- LENGTH: 54.0

WIDTH: 46.5

HEAD WIDTH: 7.9

TAIL LENGTH: 10.5

RIGHT FRONT FLIPPER WIDTH: 9.1

PLASTRON LENGTH: 40.2

WEIGHT: 39 lbs. (17.7 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

burrowing barnacles & destroyed - (belly)
" " on carapace & destroyed
photo of cluster of 3 burrowing barnacles

tan painted - 7 -

SAMPLES COLLECTED:

Calibrator 201 :

START
4/11/89 PUNALUU Bay

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

NEW TAGS: RFL y195 LFL y-196
OTHER TAGS:
Rt. hind - y-197

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 64.7

WIDTH: 49.7

NOTCH LENGTH: 64.1

CURVED CARAPACE- LENGTH: 72.0

WIDTH: 65

HEAD WIDTH: 10.1

TAIL LENGTH: 14₁₀

RIGHT FRONT FLIPPER WIDTH: 11.4

PLASTRON LENGTH: 50.2

6 burrowing barnacles on, skin barnacles

WEIGHT: 84½ lbs (38.4 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

burrowing barnacle - 6 on plastron

6 centrals

6 left laterals

engraved by y-195 - 2nd left lateral

SAMPLES COLLECTED:

PAINT #8

4/10/89 PUNANU
daytime

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

NEW TAGS: REL 4-193
OTHER TAGS:

LEL 4-194

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 50.0

WIDTH: 39.5

NOTCH LENGTH: —

CURVED CARAPACE- LENGTH: 53.5

WIDTH: 48.0

HEAD WIDTH: 8.1

TAIL LENGTH: 12.0
8.0

RIGHT FRONT FLIPPER WIDTH: 8.7

PLASTRON LENGTH: 39.4

WEIGHT: 41 18.6kg

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

burrowing barnacles on belly 8 destroyed

4-193 2nd lat. left with dremel

tan painted -8-

ENGRAVED

SAMPLES COLLECTED:

Jill Lippert Recorded data

4/11/89
Punaluu

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

Painted 10

NEW TAGS: RFL y198

LFL y199

OTHER TAGS:

y200 Left hind

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 65.6

WIDTH: 53.8

NOTCH LENGTH: —

CURVED CARAPACE- LENGTH: 70.0

WIDTH: 65.5

HEAD WIDTH: 9.9

TAIL LENGTH: $\frac{12}{8}$

RIGHT FRONT FLIPPER WIDTH: 10.8

PLASTRON LENGTH: 52.4

WEIGHT: 84 lbs (38.2 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

6 burrowing in plastron - barnacles
skin barnacles

6 cm - 6 by 5 gauge in plastron / partly healed

engraved y198 2nd L
painted 10 LAT

SAMPLES COLLECTED:

Recovery4/11/89
Punaluu

CAPTURE DATE, TIME AND LOCATION:

* 12-17-83 had also
7542

paint II

TAG RECOVERY:

RT. 7540 LF. 7541

NEW TAGS: RFL

LEL

OTHER TAGS:

7542-R3-4

MORPHOMETRICS

56.3

STRAIGHT CARAPACE- LENGTH: 69.2 WIDTH: 56.6

NOTCH LENGTH: 68.8

CURVED CARAPACE- LENGTH: 75 WIDTH: 69.5

HEAD WIDTH: 10.4

TAIL LENGTH: 14

9.5

RIGHT FRONT FLIPPER WIDTH: 11.9

PLASTRON LENGTH: 53.3

WEIGHT: 102 lbs (46.4 kg)

5.3 yrs.
2.4 cm/yr

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

7 burrowing barnacles removed
skin barnacles

hand captured by Lance

4 lateral left the bone fragment protruding - 1 cm²

grind - 7540 2ND LAT

paint II

SAMPLES COLLECTED:

7541 tag - algae + bivalves - sample jar 1

Recovery

4/11/89

CAPTURE DATE, TIME AND LOCATION:

A
TAG RECOVERY:

(Exp) 7599 Rt.

(Exp) 7600 Lf.

1/9/84

12 painted

NEW TAGS: RFL

LEL 3-4

OTHER TAGS:

y201

MORPHOMETRICS

51.6

STRAIGHT CARAPACE- LENGTH: 67.2

WIDTH: 53.7

NOTCH LENGTH: 66.9

CURVED CARAPACE- LENGTH: 72.0

WIDTH: 67.0

HEAD WIDTH: 10.7

TAIL LENGTH: 16.5

RIGHT FRONT FLIPPER WIDTH: 12.0

PLASTRON LENGTH: 51.7

WEIGHT: 90.5 lbs

(41.1kg)

5.2 yrs
3.0 cm/yr

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

Lance caught

lots of scars from baranoles - 4 living - on plastron

engraved 7599 2nd LAT L

painted 12

fresh gouge 1/2 cm - 4 cm wide across the head

SAMPLES COLLECTED:

4/11/89

CAPTURE DATE, TIME AND LOCATION:

engraved - paint 13

TAG RECOVERY:

NEW TAGS: REL Y202 LFL Y203

OTHER TAGS: Rt. back - Y204

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 61.9

WIDTH: 49.8

NOTCH LENGTH: -

CURVED CARAPACE- LENGTH: 67.5

WIDTH: 66.5

HEAD WIDTH: 9.7

TAIL LENGTH: 12

8.5

RIGHT FRONT FLIPPER WIDTH: 10.6

PLASTRON LENGTH: 50.3

WEIGHT: 87.5 lbs (39.8 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

margins of shell abraded + chipped
old injuries.

3 barnacles on plastron

mild deformity to posterior.

engraved Y202 2nd LAT left

paint 13

healing puncture slick left side of dorsal neck

SAMPLES COLLECTED:

4.5 sec. } leaving
270 cm } into water

END PUNALUU #11
 10-12 APRIL 1989
 (14 CAPTURES with 4 RECOVERIES)

CAPTURE DATE, TIME AND LOCATION:

4/12/89 Wednesday 4PM
 Punaluu Bay
 Throw net; Barry Chan
 GHB

TAG RECOVERY:

3041R (EXP)
 6164L

NEW TAGS: RFL LFL

OTHER TAGS: APPLIED
 Y-205 Right Hind
 Y-206 3-4L

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 88.6

WIDTH: 71.8

NOTCH LENGTH: —

CURVED CARAPACE- LENGTH: 93.0

WIDTH: 90.0

HEAD WIDTH: 13.3

TAIL LENGTH: 47.0; 32.0 to VENT (ADULT MALE) ♂

RIGHT FRONT FLIPPER WIDTH: 15.7

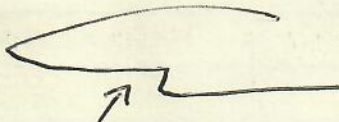
PLASTRON LENGTH: 71.6

WEIGHT: NT

Left Hind length = 37.5
 LHF WIDTH = 21.5

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

RFF VENTRAL VIEW - healed injury



SAMPLES COLLECTED:

Pterocladia in mouth. Throw netted by BC
 while foraging close to shore off sand beach w/ coconut
 trees near boat ramp.

Photos

Punaluu #11
START APRIL 1990

25

Person Recording data:

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

NEW TAGS: RFL
OTHER TAGS:

LFL

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH:

WIDTH:

NOTCH LENGTH:

CURVED CARAPACE- LENGTH:

WIDTH:

HEAD WIDTH:

TAIL LENGHT:

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

SAMPLES COLLECTED:

START PUNALUU #12 MOF ALL DAYTIME
 START 2 2pm UNPAINTED

CAPTURE DATE, TIME AND LOCATION: 4/9/90 hand capture (water)

Punaluu

TAG RECOVERY:

NEW TAGS: RFL Y637

LEL Y6

OTHER TAGS:

Y638

Left: Y639RH
 Hind:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 55.1 WIDTH: 42.4

NOTCH LENGTH: NONE

CURVED CARAPACE- LENGTH: 59.5 WIDTH: 53.0

HEAD WIDTH: 8.6

TAIL LENGTH: 12.1 → (8.9)

RIGHT FRONT FLIPPER WIDTH: 9.8

PLASTRON LENGTH:

42.6 cm

WEIGHT:

56

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

Thick Turtle

Released at 5:45pm

SAMPLES COLLECTED:

NO PAINT

painted #1

CAPTURE DATE, TIME AND LOCATION:

Rivaluy 4/9/90 hand capture

TAG RECOVERY:

NEW TAGS: RFL Y640
OTHER TAGS:

LFL

Y641
(EXP)

RH: Y642

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 59.1

WIDTH: 49.0

NOTCH LENGTH: 58.7

CURVED CARAPACE- LENGTH: 64.5

WIDTH: 62.0

HEAD WIDTH: 9.5

TAIL LENGTH: 12 (8.1)

RIGHT FRONT FLIPPER WIDTH: 10.6

PLASTRON LENGTH:

45.2

WEIGHT:

76

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

- parasitic barnacles on right underside
 - barnacles were removed (3)
 - white paint, #1
- released at 6pm

Right margin - healed injuries

SAMPLES COLLECTED:

Recovered
7/18/90

Painted #2

CAPTURE DATE, TIME AND LOCATION:

Punaluu → 4/9/90 hand capture

TAG RECOVERY:

NEW TAGS: REL Y643

LEL

OTHER TAGS: (EXP)

Y644

MORPHOMETRICS

R.H: Y645

STRAIGHT CARAPACE- LENGTH: 69.8

WIDTH: 56.5

NOTCH LENGTH: 69.3

CURVED CARAPACE- LENGTH: 75.0

WIDTH: 71.5

HEAD WIDTH: 9.7

TAIL LENGTH: 16.5 (11.0)

RIGHT FRONT FLIPPER WIDTH: 12.2

PLASTRON LENGTH: 51.5

WEIGHT: estimated, over 112 lbs

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

- removed barnacles
- left PL scute peeled, 50%

Released 6:10pm

SAMPLES COLLECTED:

painted #3

CAPTURE DATE, TIME AND LOCATION:

Punaluu → 4/9/90 hand capture

TAG RECOVERY:

NEW TAGS: RFL Y647

LEL Y646

OTHER TAGS:
(EXP)

MORPHOMETRICS

RH: Y648

STRAIGHT CARAPACE- LENGTH: 65.6

WIDTH: 52.6

NOTCH LENGTH: 65.4

CURVED CARAPACE- LENGTH: 70.5

WIDTH: 65.5

HEAD WIDTH: 10.0

TAIL LENGTH: 12.2 (8.2)

RIGHT FRONT FLIPPER WIDTH: 11.7

PLASTRON LENGTH: 51.9

WEIGHT:

94

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

- 3 barnacles removed from underside
- Released 6:25 pm

LEFT

3rd scale
slight healed
injury

SAMPLES COLLECTED:

R.

missing

TAG ? healed
LOSS ?

painted #4

CAPTURE DATE, TIME AND LOCATION:

* Punaluu → 4/9/90 hand capture (Balasz & Willie)

TAG RECOVERY:

RF: 7550

LF: 7570

MORPHOMETRICS

LF: 7571(3-4)

NEW TAGS: REL NO

LFL NO

OTHER TAGS:

(Y649RHin)d

STRAIGHT CARAPACE- LENGTH: 78.6

WIDTH: 59.8

NOTCH LENGTH: NINE 66.4

52.0

CURVED CARAPACE- LENGTH: 83.0

WIDTH: 77.0

HEAD WIDTH: 11.0

70.5

66.5

TAIL LENGTH: 27.3 (20.3)

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: 59.2

50.0

WEIGHT:

estimated over 112, well over!

88lbs (40.0 kg)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

- Red algae covering right tag
- very heavy coverage of skin barnacles
- Parasitic barnacles removed: at least 35 from belly
- released 6:35 pm

SAMPLES COLLECTED:

6 years 4 mo

12-18-83. Scarba off Punaluu
Blood - "male"note -
spring scale
only goes
to 112 lbs

100' red
flo 2+ Not pinned
7pm

END 4/9

31

Painted #~~5~~
91060 paint

CAPTURE DATE, TIME AND LOCATION:

X

Punaluu → 4/9/90 hand capture (Kevin)

TAG RECOVERY:

RF: 6361
LF: 6360

NEW TAGS: RFL
OTHER TAGS:

LFL

MORPHOMETRICS

Y650RH

STRAIGHT CARAPACE- LENGTH: 87.8

WIDTH: 67.0

NOTCH LENGTH: NONE

CURVED CARAPACE- LENGTH: 93.0

WIDTH: 88.5

HEAD WIDTH: 12.2

TAIL LENGTH: 46.5 (32.7) ♂ MALE

RIGHT FRONT FLIPPER WIDTH: 16.5

PLASTRON LENGTH: 68.2

WEIGHT:

estimated; well over 112.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

- parasitic barnacles (picked off 18)
- RF tag has molluscs on it
- pronounced claws on all 4 flippers

FFS
ENT. NO. 88

SAMPLES COLLECTED:

11/28/82 Steve Farnizel
Tem IS. Bask
(AST seen 6/16/83 Tem IS.)

PAINT # 4/10/90 hand #1, 2, 3
 6 Punaluu TUESDAY

START hand
 2:30 pm
 Net down
 same time

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

Prepunched RFL
 NEW TAGS: RFL

OTHER TAGS:

Z1 (blue) LFL Y651
 LF 3-4 Y652

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 69.6

WIDTH: 55.7

NOTCH LENGTH: 69.0

CURVED CARAPACE- LENGTH: 74.0

WIDTH: 71.0

HEAD WIDTH: 10.8

TAIL LENGTH: 13.2 (10.0)

RIGHT FRONT FLIPPER WIDTH: 11.6

PLASTRON LENGTH: 53.6

WEIGHT: est. > 112

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

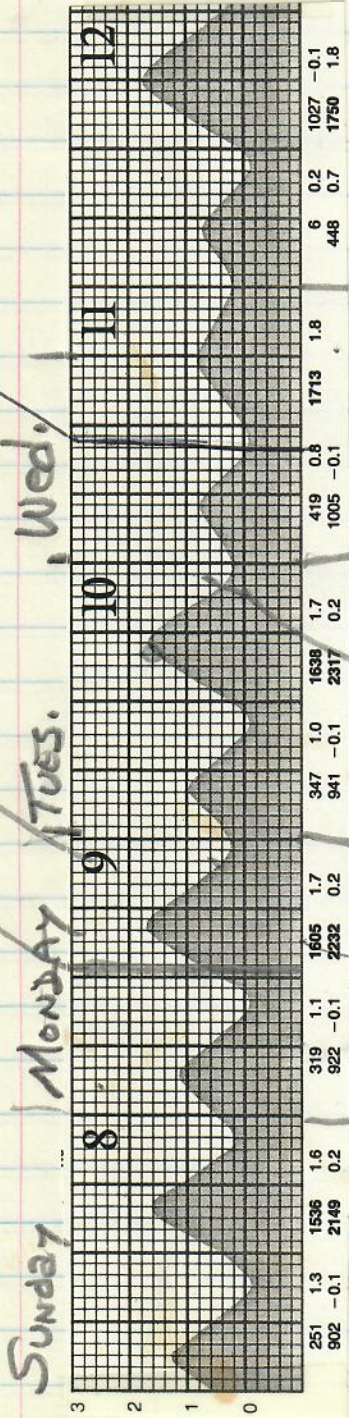
pink algae on scume

SAMPLES COLLECTED:

(Go to p. 38)

Depart
11 AM

ARRIVE
PUNAJUN



4/9 Net in water - 3pm - 7pm
 Pinned up > 4 hours

4/10, PINS DOWN - 1pm - 9:00pm
 (Taken out) > 8 hours

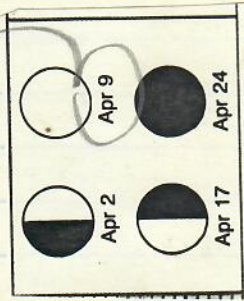
No captures
 or strikes
 on net.

NIGHTSNORTEL (20 MIN)
 LAUPAPA (HORSESHOE)
 I seen & captured
 GHB, WILLIED TOMAS

3pm
 100%
 net

But heavy
 cloud overcast

H₂O
 70° F
 IN COLDEST
 AREAS.



Received
7/18/90

Tuesday 2 pm

Punaluu 4/10/90 Hand Capture
CAPTURE DATE, TIME AND LOCATION:

preparation

Z2

TAG RECOVERY:

NEW TAGS: RFL Y653
OTHER TAGS:

LFL Z2
(blue)

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 65.2 WIDTH: 52.4

NOTCH LENGTH: 65.0

CURVED CARAPACE- LENGTH: 70.0 WIDTH: 67.0

HEAD WIDTH: 9.8

TAIL LENGTH: 14.5 (9)

RIGHT FRONT FLIPPER WIDTH: 12.5

PLASTRON LENGTH: 52.8

WEIGHT: 102 lbs.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

* painted w/ 7 on carapace

SAMPLES COLLECTED:

CAPTURE DATE, TIME AND LOCATION:

4/10/90 Tuesday
hand capture

TAG RECOVERY:

R3-4 Y-180 LF 2926
RF 2899

NEW TAGS: RFL

LFL

OTHER TAGS:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 61.5

WIDTH: 51.6

NOTCH LENGTH:

CURVED CARAPACE- LENGTH: 74.0

WIDTH: 72.0

HEAD WIDTH: 9.8

TAIL LENGTH: 12 (7.5)

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: 51.3

WEIGHT: 102 lbs.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

* Injury on carapace (front right): could be from spear
* Deformed carapace - humpback " ^{but not likely}

painted "8" on carapace

SAMPLES COLLECTED:

The Dolphin's Arc
Turtle Dance National Anthology on
Poem by Endangered Sea Creatures
Albert Akhegma Washington, D.C.

Punaluu
#11

Tuesday

4/10/90 Punaluu / Hand capture

Recovered
again
7/18/90

CAPTURE DATE, TIME AND LOCATION:

TAG RECOVERY:

RF 7604 (1S) (both tags good condition)
LF 7605

NEW TAGS: RFL

LEL

OTHER TAGS: (RH: 4654)

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 71.9

WIDTH: 57.3

NOTCH LENGTH: 48.4

39.6

CURVED CARAPACE- LENGTH: 77.0

WIDTH: 71.5

HEAD WIDTH: 10.8

57.3

46.3

TAIL LENGTH: 14.9 (11.0)

RIGHT FRONT FLIPPER WIDTH: 12.5

PLASTRON LENGTH: 56.0

38.5

WEIGHT: NT

(4/1/85)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

painted "9" on carapace

SAMPLES COLLECTED:

7604,05
1/10/84
scuba
off Punaluu

Recovered

7/18/90

Tuesday END

4/10/90 Punaluu /
CAPTURE DATE, TIME AND LOCATION:

Hand capture
PM PUNALUU Bay
// total / + page 42

TAG RECOVERY: LF 8921

NEW TAGS: RFL

LFL

RF 8920 (1-25) (NEW EXP.)

OTHER TAGS:

(RH 4655)

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 56.5

WIDTH: 44.0

NOTCH LENGTH: 47.6

38.2

CURVED CARAPACE- LENGTH: 61.0

WIDTH: 52.5

HEAD WIDTH: 9.1 53.0

45.0

TAIL LENGTH: 15.7 (10.9)

RIGHT FRONT FLIPPER WIDTH: 10.5

PLASTRON LENGTH: 45.7

39.4

WEIGHT: 65 lbs.

(36 lbs)

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

* parasitic barnacle removed

* painted "KAD", "VITA"

mild keeled indentation at 6-8 marginal

SAMPLES COLLECTED:

8920, 21
3/22/88 #9 R.F.
Punaluu
"caught by fisherman"

END
PUNAW #13

Thomas, Willie & GHB
4/10/90 Lau Papa hand capture - 945pm low tide
TUES

CAPTURE DATE, TIME AND LOCATION:

(Released 4/11/90 AM AT "PINBALL")
wed. 2-3 (Blue) LFL

TAG RECOVERY:

NEW TAGS: REL 4-656 LFL
OTHER TAGS: _____

4/5
12 TOTAL
Recaptures

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 44.2 WIDTH: 35.4

NOTCH LENGTH: - NONE -

CURVED CARAPACE- LENGTH: 46.5 WIDTH: 41.0

HEAD WIDTH: 7.2

TAIL LENGTH: 7.0 (6.0)

RIGHT FRONT FLIPPER WIDTH: 8.4

PLASTRON LENGTH: 37.1

WEIGHT: 30 lbs.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

Removed 10 parasites from belly

CONY photos of group with this turtle.

Big patch pink coralline

RHF

4 para. Bams removed carapace

SAMPLES COLLECTED:

4th central Thelid

END
PUNAW

START
PUNACUV #13
July 90

FROM JEROME JUDE - JUNKEN PO - Oahu 43

CAPTURE DATE, TIME AND LOCATION:

TUES 7/17/90 PUNACUV - Sunset ~ 7pm

TAG RECOVERY:

NEW TAGS: (RFL) N376 (LEL) N377
OTHER TAGS: N377

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 19.8 cm WIDTH: 16.4

NOTCH LENGTH: 19.8

CURVED CARAPACE- LENGTH: 21.0 WIDTH: 19.0

HEAD WIDTH: 3.9

TAIL LENGTH: 3.7 (2.1)

RIGHT FRONT FLIPPER WIDTH: 3.9

PLASTRON LENGTH: 17.4

WEIGHT: ~ 5lbs

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

4th central partial seam evident, splitting
it into two - mild abnormality

White belly -
IN ALL ways looks
JUST LIKE
SLP reared
turtles

Seam straight out when released.

SAMPLES COLLECTED:

Brought with me from the Waikiki
AQUARIUM where it had been for about
2 weeks.

AM
 ① HAND CAPTURE GHB = NEAR PAVILION
 * ALL TURTLES BLUE PAINT

CAPTURE DATE, TIME AND LOCATION:

PUNALUU 7-18-90

TAG RECOVERY:

NEW TAGS: REL N378 LFL N379
 OTHER TAGS: RH N380

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 71.0 WIDTH: 58.2

NOTCH LENGTH: 70.5

CURVED CARAPACE- LENGTH: 76.0 WIDTH: 69.5

HEAD WIDTH: 10.4

TAIL LENGTH: 15.5 (10.2)

RIGHT FRONT FLIPPER WIDTH: 12.1

PLASTRON LENGTH: 56.0

WEIGHT: 110 LB.

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)
 - REMOVED BARNACLES

SAMPLES COLLECTED: 0

②

CAPTURE DATE, TIME AND LOCATION:

7-18-90 PUNALUU Am Hand capture

TAG RECOVERY:

NEW TAGS: REL N381

LEL
N382

OTHER TAGS:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 55.4 WIDTH: 43.6

NOTCH LENGTH: 55.2

CURVED CARAPACE- LENGTH: 59.5 WIDTH: 52.5

HEAD WIDTH: 8.9

TAIL LENGTH: 12.1 (8.4)

RIGHT FRONT FLIPPER WIDTH: 10.5

PLASTRON LENGTH: 42.8

WEIGHT: 61 LB

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

REMOVED BARNACLES

ERODED BEAK

SAMPLES COLLECTED:

③

CAPTURE DATE, TIME AND LOCATION:

7-18-90 PUNALUU AM Hand capture

TAG RECOVERY: 8920 RFL

NEW TAGS: RFL

LFL

OTHER TAGS:

RH Y655 8921 LFL

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 57.0

WIDTH: 44.3

NOTCH LENGTH: 57.0

CURVED CARAPACE- LENGTH: 61.0

WIDTH: 53.0

HEAD WIDTH: 9.0

TAIL LENGTH: 15.7 (9.9)

RIGHT FRONT FLIPPER WIDTH: 10.6

PLASTRON LENGTH: 45.6

WEIGHT: 0

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

Very small skin barns present -
 old and larger ones died off?

Deform marginals on right

SAMPLES COLLECTED:

PUNALOU #12 47

APR. 9, 90 Monday

ALOHA, FL 44 TO Hilo 8:45 AM
4 BAGS + HAND CARRY CALPER.
(1 GLOO, Blue Dive Bag, Gray Smisovite, small red suitcase)

ARRIVE
→ 9:50 AM

Return 4/11/90 Wed. Flight 247 2:45 PM

Rent Tropical "Areostar" #27.95 (BARGAIN)

Got change Shopping for Talbis ^{EBiazaki} - near Hilo HUKILAN
Shackel. Hardware ^{CASH} 2 punch/ice picks - Stanley Brand
#1.99 each
Pay & Save ^{CASH} - Betadine-like antiseptic
Black plastic tape

Arrive Punalou ~ 12:45. George Watson
and Kevin Kramer arrived 10 minutes
later. John Coney - Walter Dudley,
Mike Childers, Sherry Miller, Willie,
Tomás, Andrew et al.

~3 PM Camp on Beach -
100' red float net w/ reduced leads
set same site - shore side "anchor" line
tied to telephone pole.

Proceeded to hand capture turtles, as possible,
while they are up close in shallows.
Several notables over shallow depth
boulder right before pavillion
Pahoehoe lava dome. Also inside

4/9 Monday

Boat ramp (between ramp & black sand) -
boulders on bottom w/ Pterocladia and
silty micohaline water.

6 captured - all data collected - turtles
released before sunset. None swam
into the net, all obviously saw it and
avoided.

Net pulled up by Watson + JH students at sunset.
Hamburgers and fried chicken for dinner.

4/10
Tues.

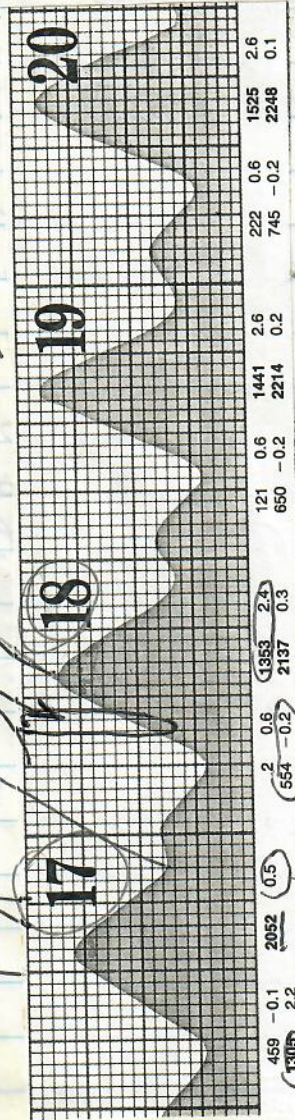
Start 1:30pm -

6 more
hardly captured.

Net also put in water at this
time - same location as on many past
trips. No captures, or known "strikes"
in net.

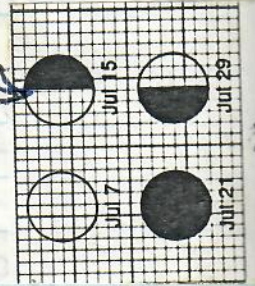
July 1990

noon
 9pm
 2pm during
 WALK TO TURTLE BAY
 MOST OF 12 HOURS TIME
 I saw near
 I saw near
 I saw near



TUES.
 WED.

lots of overcast -
 dark at night.



WHO owns LAND
AT TURTLE BAY?

- NOTIFY JERRY CROW

- * Need
- Photos from Covey
 - Photo of offensive light
 - Survey of nest sites
 - Kaula photo
 - Kaula wood

- NOAA sticker to WACT
- EXPRESS mail dup. slides
- NOTIFY LENNY / INFORMANT NAMES FROM LENNY

PUNALOU #12

UH Hilo Summer School
~ 23 students

17 JULY 90
TUES.

Depart 12:25pm Aloha FL 354
coupons from Leon.

Return 7/18 6:40pm FL 47

Tropical - Aerostar \$42.95 day

Drove to UH office arrive 3pm

Depart from there w/ Willie + 3 students doing
turtle project to Richardson Ocean Center

- Met Lenny
- Saw one turtle in Mark Marshall's pond. Turtle excessively brought when found, but not so now.

Depart for Punalou.

Sally Haggerty
Stephanie West

) Turtle Project
Hilo Bay Survey

No turtles caught from 7pm -
only 2 seen while in the water.

17 July 90 > just before sunset we
 Tues. let the 19.8 cm
 "Jerome Jude" turtle go by
 pavilion - it swam out
 with vigor immediately.

18 July 90 UP 6am - very low
 wed. tide. Willie out looking
 for turtles. He saw none.
 At 7am I saw one very
 small one feeding in shallow
 water washing in over rocks
 just below pavilion.

By 9am - several were prominent feeding
 by boat ramp and off other rocks.
 Willie and I walked to horses
 and niole cove and to Keiser
 overlook. No signs of nesting
 seen, but lots of snapping turtles.

From 10am - 12 noon, we all
 had captured 12 turtles.

Worked up from 12 - 2pm under
 canopy. - 2:30pm I had a
 group out to "Turtle Bay".

wed,
18 July 90

High tide -- big swells rolling in
10-12 turtles seen feeding --
Some right under rock cliff. (also
up rough surge channel down and to
the right. Beautiful overlook.
No signs of fresh dead bones, etc.

Depart Punaluu ~ 3:45 pm for
Richardson where we (Willie)
caught one turtle in pond, tagged
and let it go across the street.
Swam off rapidly.

Depart Hilo at 6:25 pm.

July
11/83 3134

SEAWATER - 25° OFFSHORE 22° SHALLOW (CONTINUED FROM P. 46) 55

(4)

CAPTURE DATE, TIME AND LOCATION:

7-18-90 PUNALUU AM HAND

TAG RECOVERY: RFL 6717 (3-4)
L 6715 (3-4) RFL 6716
LFL 6714

NEW TAGS: RFL
OTHER TAGS:

LFL

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 78.9

WIDTH: 60.8

NOTCH LENGTH: 78.6

CURVED CARAPACE- LENGTH: 85

WIDTH: 77

HEAD WIDTH: 11.0

TAIL LENGTH: 21.3 (14.6)

RIGHT FRONT FLIPPER WIDTH: 13.7

PLASTRON LENGTH: 60.2

WEIGHT: 0

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

SAMPLES COLLECTED:

orig
11/83

Recap
3/84

⑤

CAPTURE DATE, TIME AND LOCATION:

7-18-90 PUNALUU

Am HAND

TAG RECOVERY: RFL Y643

NEW TAGS: RFL

LFL

RH
Y645 LFL Y644

OTHER TAGS:

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 70.0

WIDTH: 56.4

NOTCH LENGTH: 69.5

CURVED CARAPACE- LENGTH: 75.5

WIDTH: 71.0

HEAD WIDTH: 9.9

TAIL LENGTH: 16.8 (10.7)

RIGHT FRONT FLIPPER WIDTH: 11.9

PLASTRON LENGTH: 52.2

WEIGHT: 0

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

SAMPLES COLLECTED:

⑥

CAPTURE DATE, TIME AND LOCATION:

AM HAND

7-18-90 PUNALUU

TAG RECOVERY:

NEW TAGS: RFL
OTHER TAGS:

4653

LEL
22
(15)

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 65.8

WIDTH: 53.3

NOTCH LENGTH: 65.6

CURVED CARAPACE- LENGTH: 70

WIDTH: 67

HEAD WIDTH: 9.8

TAIL LENGTH: \emptyset = CLOSED FINS present

RIGHT FRONT FLIPPER WIDTH: 12.8

PLASTRON LENGTH: 53.1

WEIGHT: \emptyset

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

SAMPLES COLLECTED:

orig tagged 4/90

⑦
CAPTURE DATE, TIME AND LOCATION:

7-18-90 PUNALUU

Am HAND

TAG RECOVERY:

NEW TAGS: RFL N385 LFL
OTHER TAGS: RH N383 N384

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 71.9

WIDTH: 57.4

NOTCH LENGTH: 71.7

CURVED CARAPACE- LENGTH: 77.5

WIDTH: 73

HEAD WIDTH: 10.5

TAIL LENGTH: 15.9 (11.3)

RIGHT FRONT FLIPPER WIDTH: 11.9

PLASTRON LENGTH: 57.0

WEIGHT: 0

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

SAMPLES COLLECTED:

⑧
CAPTURE DATE, TIME AND LOCATION: AM HAND
7-18-90 PUNALUU

TAG RECOVERY:

NEW TAGS: RFL N387 LFL
OTHER TAGS: N386

MORPHOMETRICS

STRAIGHT CARAPACE- LENGTH: 67 WIDTH: 52.2

NOTCH LENGTH: 66.7

CURVED CARAPACE- LENGTH: 72 WIDTH: 64

HEAD WIDTH: 9.8

TAIL LENGTH: 17.7 (11.5)

RIGHT FRONT FLIPPER WIDTH: 11.5

PLASTRON LENGTH: 51.3

WEIGHT: 0

DESCRIPTIVE REMARKS (ie TUMORS, OTHER ABNORMALITIES)

SAMPLES COLLECTED:

(11) TRICIA JOHNSTON

AM
HAND

7-18-90 PUNALUU

PLASTRON: 58.9

RECOVERED TAGS: RFL: Y176 R Y179 (3-4)
RH: Y178 LFL: Y177

RT. FLIP: 13.8

TAIL: 19.1 (13.8)

HEAD: 10.9

CURVED CARAPACE: L: 80.0

W: 77.0

STRAIGHT CARAPACE L: 75.9

W: 61.8

NOTCH: 75.5

orig 4/89 SL = 74.4 cm

(12) : Am HAND

7-18-90 PUNALUU

END OF
PUNALUU
#12
DATA

PLASTRON: 55.3

NEW TAGS: RFL: N388

LFL: N389

RT. FLIP: 12.7

TAIL: 15.4 (11.7)

HEAD: 10.2

CURVED CARAPACE: L: 74.0

W: 68.0

STRAIGHT CARAPACE L: 69.5

W: 54.1

NOTCH: CHIPPED

ABNORMALITIES: SM. TUMOR

SIZE #1

DEVELOPING IN LEFT

EYE = SIZE #1 = DORSAL

CORNER

CARL LAWRENCE = TOOK PICTURE OF TUMOR

BIG ISLAND
PUNALUU

1989-1990

BALAZS

992-A Awaawanoa Place
Honolulu, Hawaii 96825

2 of 2