

Scanned 8sept2019

3 of 3

KANEOTE BAY - MAY 1999

Mead

COMPOSITION

KANEOTE BAY

MAY 98 - JAN 1999

100 sheets • 200 pages • 100 hojas
9¾ x 7½ in / 24.7 x 19.0 cm

wide ruled / réglage large / rayado ancho

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George BAYAZS (808) 395-6409



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CAPTURE DATE, LOCATION AND METHOD: Kanewehe bay ①

PERSON RECORDING DATA: 1/6/99 Reef 43 Hawkshel
km

OLD TAGS: LH40171500232
LH40174B03591

TUMOR SCORE 3
8.189

NEW TAGS: RFL
LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 75.1

NOTCH LENGTH: 75.1

CURVED CARAPACE LENGTH: 80.0

HEAD WIDTH: 10.4

PPS: YES OR NO OR NE N

TAIL LENGTH: T 19.0

RIGHT FRONT FLIPPER WIDTH: 12.5

PLASTRON LENGTH: 60.9

WEIGHT: 135g

DESCRIPTIVE REMARKS:

WIDTH: 58.3

L.O.

DB:

WIDTH: 76.0

SEX: MALE, FEMALE OR UNDETERMINED U

SAMPLES COLLECTED:

12cc blood
taken for tubes

immuno logy

Shrimp wandering what was for all
standardize as per earlier study
please, on immunology, plasma

CAPTURE DATE, LOCATION AND METHOD: 1/6/99 Kanewehe bay ②

PERSON RECORDING DATA: 1/6/99 Kanewehe bay Hawkshel
km

OLD TAGS: LH40171500232
LH40174B03591

TUMOR SCORE 3
see pg 158

NEW TAG: LFF

OTHER NEW TAGS: LFF

STRAIGHT CARAPACE-LENGTH: 49.1

NOTCH LENGTH: 48.6

CURVED CARAPACE LENGTH: 53

HEAD WIDTH: 7.7

PPS: YES OR NO OR NE N

TAIL LENGTH: T -

RIGHT FRONT FLIPPER WIDTH: -

PLASTRON LENGTH: 38.7

WEIGHT: 34

DESCRIPTIVE REMARKS:

1.7 ml L.R. (OX)
Leadless, lead eggs

NEW TAG: LFF

OTHER NEW TAGS: LFF

WIDTH: 38.4

L.O.

DB: 24

WIDTH: 45

SEX: MALE, FEMALE OR UNDETERMINED U

SAMPLES COLLECTED:

12cc blood
taken for tubes
immuno logy

CAPTURE DATE, LOCATION AND METHOD:

1/6/99 Kawa Kowlospot Hand (3) ^{Boy} ^{twins}

PERSON RECORDING DATA: KM

OLD TAGS: ^{LF} 407D333237

NEW TAGS: RFL

TUMOR SCORE

2

LFL

OTHER NEW TAGS: LHF

407A3F006A

STRAIGHT CARAPACE-LENGTH: 59.6

WIDTH: 47.6

NOTCH LENGTH: 8.8

DB: 8

L.O. VB: 24C

CURVED CARAPACE LENGTH: 64.5

WIDTH: 57

HEAD WIDTH: 8.2

PPS: YES OR NO OR NE Y

SEX: MALE, FEMALE OR UNDETERMINED U

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH: 48.2

NO Blood

WEIGHT: 65 #

taken

DESCRIPTIVE REMARKS:

Reye 1#2 no apparent vision
Leye 1#2
neck 1#3

put white paint on carapace

21° 29.041' at Chingman HAF side
157° 50.121' do TWIN reeb

CAPTURE DATE, LOCATION AND METHOD:

1/6/99 "Elect" ⁴ ^{Boy} ^{twins}
PERSON RECORDING DATA: KM

OLD TAGS:

NEW TAGS: 407A4B2A0D

TUMOR SCORE

2

OTHER NEW TAGS: LHF

407A2E740C

STRAIGHT CARAPACE-LENGTH: 49.6

WIDTH: 40.9

NOTCH LENGTH: 44.3

DB: 10

L.O. VB: 8 L.C

CURVED CARAPACE LENGTH: 53.0

WIDTH: 47.5

HEAD WIDTH: 8.2

PPS: YES OR NO OR NE Y

SEX: MALE, FEMALE OR UNDETERMINED U

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH: 41.2

12cc blood

WEIGHT: 44 #

taken for T work
for immunology study

DESCRIPTIVE REMARKS:

2 biopsy taken from 1st Marg Lft
seam/score #2 INTO
1.7ml ves (ox) 100% Fomphim
OTHER COLLECTOR ON SEAT side
TWIN reeb - @ 15'

CAPTURE DATE, LOCATION AND METHOD:

1/6/99 Kawa Kowelospot Hand subu

PERSON RECORDING DATA: KM

OLD TAGS: 407D333231

NEW TAGS: RFL

TUMOR SCORE

LFL

OTHER NEW TAGS: LHF

407A3F006A

STRAIGHT CARAPACE-LENGTH: 59.6

WIDTH: 47.6

NOTCH LENGTH: 8.8

DB: 8

L.O.

VB: 2

CURVED CARAPACE LENGTH: 64.5

WIDTH: 57

HEAD WIDTH: 8.2

PPS: YES OR NO OR NE

SEX: MALE, FEMALE OR UNDETERMINED

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH: 48.2

NO Blood taken

WEIGHT: 65 #

DESCRIPTIVE REMARKS:

Reye 1#2 neoprenet vision
Leve 1#2
neck 1#3

put white paint on carapace

21° 29.041' at Chingman HAF side
157° 50.121' do TOWN red

CAPTURE DATE, LOCATION AND METHOD:

1/6/99 Kawa Kowelospot Hand subu

PERSON RECORDING DATA: KM

OLD TAGS:

NEW TAGS: LHF

TUMOR SCORE

OTHER NEW TAGS: LHF

407A4B2A00

407A2E740C

STRAIGHT CARAPACE-LENGTH: 49.6

WIDTH: 40.9

NOTCH LENGTH: 49.3

DB: 10

L.O.

VB: 8

CURVED CARAPACE LENGTH: 53.0

WIDTH: 47.5

HEAD WIDTH: 8.2

PPS: YES OR NO OR NE

SEX: MALE, FEMALE OR UNDETERMINED

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED

PLASTRON LENGTH: 41.2

12CC blood taken for T work

WEIGHT: 44 #

FOR immunology study

DESCRIPTIVE REMARKS:

2 bio psy taken from same scout # 2 1st May 1st into 1.7ml vac (OX) 100% formalin TO T work
OTHER COCKER ON SEAT side TOWN red - @ 15'

47
Sub
6

CAPTURE DATE, LOCATION AND METHOD:

1/6/99 Hand/scuba Reef 4/2
PERSON RECORDING DATA: KM

OLD TAGS: RFL B38
RH B41
LH B40
LFL B39
TUMOR SCORE: 2
P.161

NEW TAG LFF
OTHER NEW TAGS: LHF
407A44767E
407A394C24

STRAIGHT CARAPACE-LENGTH: 64.5 WIDTH: 50.0
NOTCH LENGTH: 64.5 DB: 15 L.O. VB: 7 L.C.
CURVED CARAPACE LENGTH: 69.0 WIDTH: 61.5

HEAD WIDTH: 9.6 SEX: MALE, FEMALE OR UNDETERMINED U
PPS: YES OR NO OR NE Y
TAIL LENGTH: T 10.0 C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED: 12cc blood
PLASTRON LENGTH: 51.8 taken for T work
WEIGHT: 80# immunology

DESCRIPTIVE REMARKS: 3.6 mL LA(ox)

CAPTURE DATE, LOCATION AND METHOD:

1/6/99 Hand/scuba Reef 4/2
PERSON RECORDING DATA: KM

OLD TAGS: NEW TAG LFF
OTHER NEW TAGS: LHF
407A494478
407A3A0A00
TUMOR SCORE: 2
P.162

STRAIGHT CARAPACE-LENGTH: 66.2 WIDTH: 50.6
NOTCH LENGTH: 66.1 DB: 12 L.O. VB: 8 L.C.
CURVED CARAPACE LENGTH: 71.0 WIDTH: 63.0

HEAD WIDTH: 10.6 SEX: MALE, FEMALE OR UNDETERMINED U
PPS: YES OR NO OR NE Y
TAIL LENGTH: T 5.5 C 10.0

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED: 12cc Blood
PLASTRON LENGTH: 53.3 taken for T work
WEIGHT: 85# immunology

DESCRIPTIVE REMARKS: 4.6 mL LA(ox)

Leach eggs

CAPTURE DATE, LOCATION AND METHOD:

1/13/99, Mark's Reef Hand/ Snake
PERSON RECORDING DATA: PH

OLD TAGS: ~~407D000~~
NEW TAG: 407A525C08
TUMOR SCORE: 1
OTHER NEW TAGS: LHF 407A37466A

STRAIGHT CARAPACE-LENGTH: 53.4 WIDTH: 41.4
NOTCH LENGTH: 52.8 DB: L.O. VB: L.C.
CURVED CARAPACE LENGTH: 57.5 WIDTH: 49

HEAD WIDTH: 8.7 SEX: MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE Y
TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: 8.6 SAMPLES COLLECTED: 12cc
PLASTRON LENGTH: 42.3 Blood + Alca
WEIGHT: 48# For T. work

DESCRIPTIVE REMARKS:
1-#1 BTH, 2.3 mL L.R. - (OX)
- yellow faint

release @ C-reef
onset date longer
1409 put on Mark's Reef
cleaning reef (chosey et al.)

CAPTURE DATE, LOCATION AND METHOD:

1/13/99, Arnold's Reef Hand/ Snake
PERSON RECORDING DATA: PH

OLD TAGS: 407D000
NEW TAGS: RFL LFL
TUMOR SCORE: 0
OTHER NEW TAGS: LHF 407A322D59

STRAIGHT CARAPACE-LENGTH: 58.3 WIDTH: 47.8
NOTCH LENGTH: 58.1 DB: 33 L.O. VB: 26 L.C.
CURVED CARAPACE LENGTH: 63.0 WIDTH: 58.0

HEAD WIDTH: 9.1 SEX: MALE, FEMALE OR UNDETERMINED
PPS: YES OR NO OR NE Y
TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:
PLASTRON LENGTH: 47.9
WEIGHT:

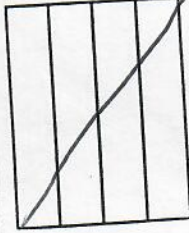
DESCRIPTIVE REMARKS:

LH - (A975 (6 HB) AS79 or A975 (no) end of Kapaichoi
young female seen by GIB Seibe
RFL Head slit
releaved @ C-reef

CAPTURE DATE, LOCATION AND METHOD:

1/13/99 ARNOLD'S Bay HAND (S) OAK (S)

PERSON RECORDING DATA: PH



OLD TAGS:

NEW TAGS: LFF

407A40672F

OTHER NEW TAGS: LHF

407A47634A

TUMOR SCORE: 1

STRAIGHT CARAPACE-LENGTH: 51.0

WIDTH: 41.2

L.O. 3

DB: 3

VB: 5

L.C.

NOTCH LENGTH: 50.6

CURVED CARAPACE LENGTH: 54.5

WIDTH: 48.0

HEAD WIDTH: 8.0

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

NO

U

TAIL LENGTH: T

C

SAMPLES COLLECTED

RIGHT FRONT FLIPPER WIDTH:

41.4

PLASTRON LENGTH:

46

WEIGHT:

DESCRIPTIVE REMARKS:

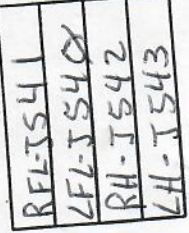
mouth ~~etc~~ RFF 1 # 2, S-S 1 # 2
Right anterior carapace, Neck 1 # 2

2.3 mL LA (OX)

CAPTURE DATE, LOCATION AND METHOD: RAMPAGE Bay (U)

1/13/99 ARNOLD'S Bay HAND (S) OAK (S)

PERSON RECORDING DATA: PH



OLD TAGS:

NEW TAGS: LFF

407A4D571D

OTHER NEW TAGS: LHF

407A375B6B

TUMOR SCORE: 2

STRAIGHT CARAPACE-LENGTH: 50.2

WIDTH: 40.1

L.O. 14

DB: 14

VB: 1

L.C.

NOTCH LENGTH: 49.9

CURVED CARAPACE LENGTH: 54.0

WIDTH: 47.0

HEAD WIDTH: 8.3

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

Y

U

TAIL LENGTH: T

C

SAMPLES COLLECTED

RIGHT FRONT FLIPPER WIDTH:

41.9

PLASTRON LENGTH:

35

WEIGHT:

DESCRIPTIVE REMARKS:

Neck (chain) 1 # 3, RFF 1 # 3 (NOT BY TAG)
LH 1 # 2

2.3 mL LA (OX)

CAPTURE DATE, LOCATION AND METHOD:

1 | 13 | 99

~~See Reef~~ Reef
Kameche Bay

PERSON RECORDING DATA: PH

OLD TAGS:

~~407A380136~~
LH 407A380136
FF 407D333237

NEW TAGS: RFL
LFL

OTHER NEW TAGS:

TUMOR SCORE

FF

STRAIGHT CARAPACE-LENGTH: 60.2

WIDTH:

NOTCH LENGTH: 59.5

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 65.0

WIDTH:

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

shawn + filled
this was no He score
by was the + cap + F's likely
what was 1 seems

CAPTURE DATE, LOCATION AND METHOD:

1-13-99

C Reef
Kameche Bay

PERSON RECORDING DATA: PH

OLD TAGS:

~~407A380136~~
LFF

NEW TAGS:

TUMOR SCORE

RFF

STRAIGHT CARAPACE-LENGTH: 53.7

WIDTH: 40.7

NOTCH LENGTH: 53.4

DB: 70

L.O.

VB: 200

L.C.

CURVED CARAPACE LENGTH: 58.0

WIDTH: 51.0

HEAD WIDTH: 8.0

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH: 8.8

PLASTRON LENGTH: 43.2

WEIGHT: 45

DESCRIPTIVE REMARKS:

2.3 ml LQ (ox)
acanthophora in mouth

SAMPLES COLLECTED

12 CC
BLOOD

for TWORK

150

CAPTURE DATE, LOCATION AND METHOD:

7 Kawalo 1-13-98 IAMP suba

PERSON RECORDING DATA: PH

OLD TAGS:

4077527823
4104067E73

NEW TAGS: RFL
LFL

TUMOR SCORE

OTHER NEW TAGS:

AT some lost capture

STRAIGHT CARAPACE-LENGTH: 61.1

WIDTH:

NOTCH LENGTH:

DB:

L.O.

VB:

L.C.

CURVED CARAPACE LENGTH: 65.5

WIDTH:

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTI

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

released

CAPTURE DATE, LOCATION AND METHOD:

1-13-98

reef 43 suba

PERSON RECORDING DATA: PH

OLD TAGS:

4077501C24
407732EDF

NEW TAGS: RFL
LFL

TUMOR SCORE

OTHER NEW TAGS:

2

See p. 114

STRAIGHT CARAPACE-LENGTH: 71.5

WIDTH: 53.4

NOTCH LENGTH: 71.4

DB: 5

L.O.

VB: 4

L.C.

CURVED CARAPACE LENGTH: 78.5

WIDTH: 66.5

HEAD WIDTH: 10.7

SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH: 12.4

SAMPLES COLLECTED

PLASTRON LENGTH: 56.5

WEIGHT:

DESCRIPTIVE REMARKS:

51
live 88

CAPTURE DATE, LOCATION AND METHOD: KRM

C. Reub 3/10/99 HAND/ SNORKEL

PERSON RECORDING DATA: OMS

OLD TAGS: LF NEW TAGS: RFL LFL
TUMOR SCORE: 0 OTHER NEW TAGS: LF
407A50550A
407A393919

STRAIGHT CARAPACE-LENGTH: 39.8 WIDTH: 33.5
NOTCH LENGTH: 39.6 DB: L.O. VB: L.C
CURVED CARAPACE LENGTH: 45.0 WIDTH: 42.0

HEAD WIDTH: 6.3 SEX: MALE, FEMALE OR UNDETERMINED U

PPS: YES OR NO OR NE N
TAIL LENGTH: T 6.5 C 4.0

RIGHT FRONT FLIPPER WIDTH: 7.2 SAMPLES COLLECTED

PLASTRON LENGTH: 32.3

WEIGHT: 19 #

DESCRIPTIVE REMARKS: massive deformed hump 3/4 central extending to each side
1.3 ml LG
print photos

CAPTURE DATE, LOCATION AND METHOD: KRM

3/10/99 AOL BOAT/DIVE

PERSON RECORDING DATA:

OLD TAGS: LH 4104097F78 NEW TAGS: RFL LFL
TUMOR SCORE: 0 OTHER NEW TAGS: LF 407D1C766B

STRAIGHT CARAPACE-LENGTH: 47.2 WIDTH: 35.3
NOTCH LENGTH: 46.8 DB: 26 L.O. VB: 24 L.C
CURVED CARAPACE LENGTH: 52.0 WIDTH: 44.0

HEAD WIDTH: 7.3 SEX: MALE, FEMALE OR UNDETERMINED U

PPS: YES OR NO OR NE Y
TAIL LENGTH: T 11.0 C 8.0

RIGHT FRONT FLIPPER WIDTH: 7.9 SAMPLES COLLECTED

PLASTRON LENGTH: 37.8

WEIGHT: 35 #

DESCRIPTIVE REMARKS: Released at coconut IS.

152

CAPTURE DATE, LOCATION AND METHOD:

3/10/99 ADZ Boat/DIVE

PERSON RECORDING DATA:

OLD TAGS:

Table with 3 rows and 1 column, all cells are empty.

NEW TAG

407A3A5E1D



TUMOR SCORE

0

OTHER NEW TAGS:

LFF
LHF

407A2F562F



STRAIGHT CARAPACE-LENGTH:

45.5

WIDTH:

36.5

NOTCH LENGTH:

44.6

DB:

30

L.O.

VB:

24

L.C

CURVED CARAPACE LENGTH:

48.5

WIDTH:

44.0

HEAD WIDTH:

7.0

SEX:

MALE, FEMALE OR UNDETERMINED

4

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

10.0

T

6.5

C

RIGHT FRONT FLIPPER WIDTH:

7.9

SAMPLES COLLECTED

PLASTRON LENGTH:

37.1

WEIGHT:

27.0

DESCRIPTIVE REMARKS:

Halophita in mouth
1.7 ml Liq Released
at Coconut 15.

CAPTURE DATE, LOCATION AND METHOD:

3/10/99 C-Reef HAAD/SURVIV

PERSON RECORDING DATA:

OLD TAGS:

Table with 3 rows and 1 column, all cells are empty.

NEW TAG

407A2C6536



TUMOR SCORE

2

OTHER NEW TAGS:

LFF
LHF

407A465034



STRAIGHT CARAPACE-LENGTH:

47.2

WIDTH:

36.7

NOTCH LENGTH:

47.0

DB:

28

L.O.

VB:

6

L.O

CURVED CARAPACE LENGTH:

51.0

WIDTH:

43.0

HEAD WIDTH:

7.6

SEX:

MALE, FEMALE OR UNDETERMINED

4

PPS: YES OR NO OR NE

Y

TAIL LENGTH:

11.0

T

7.0

C

RIGHT FRONT FLIPPER WIDTH:

8.4

SAMPLES COLLECTED

PLASTRON LENGTH:

39.0

WEIGHT:

3.1#

DESCRIPTIVE REMARKS:

RFF 1#1
Tail 1#2, 1#2
neck 2#2
LHF 1#2
1.7 ml Liq

53

9

CAPTURE DATE, LOCATION AND METHOD:

3/10/99 C-Red HAND/GARBLE

PERSON RECORDING DATA: JME

OLD TAGS: [] [] []

NEW TAGS



407A50561D

TUMOR SCORE: [2]

OTHER NEW TAGS:



407A53420A

STRAIGHT CARAPACE-LENGTH: 56.1 WIDTH: 43.5

NOTCH LENGTH: 55.9 DB: 12 L.O. VB: 9 L.C.

CURVED CARAPACE LENGTH: 61.0 WIDTH: 52.0

HEAD WIDTH: 8.5 SEX: MALE, FEMALE OR UNDETERMINED [Y]

PPS: YES OR NO OR NE [Y]

TAIL LENGTH: T [11.5] C [8.0]

RIGHT FRONT FLIPPER WIDTH: 9.2 SAMPLES COLLECTED

PLASTRON LENGTH: 45.4

WEIGHT: 57#

DESCRIPTIVE REMARKS:

Rey 1# ringed
LFF 1#2, 2#1
RFF 1#2
LFF 1#2
LHF 1#3, 3#1,
3.0 mLLQ
tail 1#1 clava
leech on RSH
Reddyed + Islow
at account of Islow

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS: [] [] []

NEW TAGS: RFL

LFL

TUMOR SCORE: []

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: [] WIDTH: []

NOTCH LENGTH: [] DB: [] L.O. VB: [] L.C.

CURVED CARAPACE LENGTH: [] WIDTH: []

HEAD WIDTH: [] SEX: MALE, FEMALE OR UNDETERMINED []

PPS: YES OR NO OR NE []

TAIL LENGTH: T [] C []

RIGHT FRONT FLIPPER WIDTH: [] SAMPLES COLLECTED

PLASTRON LENGTH: []

WEIGHT: []

DESCRIPTIVE REMARKS:

154

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: RFL LFL TUMOR SCORE OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH: NOTCH LENGTH: L.O. DB: VB: L.C. CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

CAPTURE DATE, LOCATION AND METHOD:

PERSON RECORDING DATA:

OLD TAGS: NEW TAGS: RFL LFL TUMOR SCORE OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: WIDTH: NOTCH LENGTH: L.O. DB: VB: L.C. CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS:

12-29-98
e-area

156

407A2F6545



Adult leeches
leech eggs

see pg 141

LFF 3#2, 11#1

RFF 1#3, 2#1

neck 2#3, 2#2, 2#1

Keys 2#2 minimal vision

Leys 2#2 Hard smooth swelling no apparent vision

Dorsal head juncture neck 1#2

mouth 3#1 1#1 on LTH 1#1 RTH

RHF 5#1, 1#2

LHF 6#1

TS 3

Tail 5#1

See pg 141

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407A494C3E

157

407A435721



77 JBA C-area
12-29-98

11/1/98

mouth 2#1 LSH, 1#1 RJH
 Rays 1#2, 1#1
 Lays 2#2
 LFF - 1#1
 neck 6#2
 Head scuten 1#2
 RFF 1#2

IS = 12

See page 14

[3] [12]

~~11/1/98~~

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|------------------|
| RT. EYE | 1 | 2 | | | | |
| LT. EYE | | 2 | | | | |
| MOUTH | 2 | 1 | | | | LJH 2#1, RJH 1#2 |
| NECK | 1 | 8 | | | | |
| RFF | 1 | 5 | 1 | | | |
| LFF | 4 | 8 | | | | |
| RHF | 1 | 2 | 1 | | | |
| LHF | | 2 | | | | |
| CLOACA/TAIL | 1 | 1 | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| Total | 11 | 31 | 2 | | | |

OTHER INFORMATION:

TS = 3

1/6/99

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LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|-------------------|
| RT. EYE | 1 | 2 | | | | |
| LT. EYE | | 2 | | | | bleedy 20% vision |
| MOUTH | | 2 | | | | 1#2 RSH, 1#2 LSH |
| NECK | | 1 | | 1 | | |
| RFF | 3 | 1 | 1 | | | |
| LFF | | | | 1 | | |
| RHF | | | | | | |
| LHF | 1 | 1 | | 1 | | |
| CLOACA/TAIL | 1 | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| Total | 6 | 9 | 1 | 3 | | |

OTHER INFORMATION:

1/6/99

p. 145

Approximate Tumor Size Categories:

#1 = detectable patch to 1cm diameter.

#2 = >1cm to 4cm.

#3 = >4cm to 10cm.

#4 = >10cm.

Overall TUMOR SCORE:

3

NMFS, HONOLULU LAB
 Marine Turtle Research
 2570 Dole Street
 Honolulu, HI 96822-2396

160/99

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|----------------------|
| RT. EYE | | 2 | | | | |
| LT. EYE | 1 | 1 | | | | |
| MOUTH | | 2 | | | | RJH 1 #2 LJH 1 #2 |
| NECK | 1 | 2 | 1 | | | |
| RFF | | 1 | | | | |
| LFF | | 2 | | | | |
| RHF | | | | | | |
| LHF | | | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | 1 | | | | FML |
| INTERNAL | | | | | | |
| Total | 2 | 11 | 1 | | | |

OTHER INFORMATION:

1/0/99

PHG



Approximate Tumor Size Categories:

- #1 = detectable patch to 1cm diameter.
- #2 = >1cm to 4cm.
- #3 = >4cm to 10cm.
- #4 = >10cm.

Overall TUMOR SCORE: 2

NMFS, HONOLULU LAB
 Marine Turtle Research
 2570 Dole Street
 Honolulu, HI 96822-2396

161

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|---------|
| RT. EYE | 1 | 2 | | | | |
| LT. EYE | 2 | | | | | |
| MOUTH | 2 | | | | | ESH |
| NECK | | 1 | | | | |
| RFF | 2 | 1 | | | | |
| LFF | | 2 | | | | |
| RHF | | | | | | |
| LHF | | | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| Total | 5 | 6 | | | | |

OTHER INFORMATION:

1/6/99

p. 147



407A44767E

162

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|----------------------|
| RT. EYE | 1 | 1 | | | | |
| LT. EYE | | 2 | | | | 50% vision |
| MOUTH | 2 | 1 | | | | LJH 2 #1 RJH 1 #2 |
| NECK | | 2 | 1 | | | |
| RFF | | 1 | | | | |
| LFF | | | 1 | | | |
| RHF | | | | | | |
| LHF | | 1 | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| Total | 3 | 8 | 2 | | | |

OTHER INFORMATION:

407A494478


1/6/98
P.147

163

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|---------|
| RT. EYE | 1 | | | | | |
| LT. EYE | 1 | | | | | |
| MOUTH | | 1 | | | | RJH 1#2 |
| NECK | | 1 | | | | |
| RFF | | | 1 | | | |
| LFF | | | | | | |
| RHF | | | 2 | | | |
| LHF | | | 1 | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| Total | 2 | 2 | 4 | | | |

OTHER INFORMATION:

Leech eggs

1/26/99

TS = \square 2

from pg. 138

See p. 138

407A516757



764

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|---------------------------------------|
| RT. EYE | 1 | | | | | 1#1 anterior |
| LT. EYE | 1 | | | | | anterior |
| MOUTH | 2 | | | | | 1#1 choana (roof of mouth) 1#1 LSH |
| NECK | | 2 | 1 | | | |
| RFF | | 2 | 1 | | | |
| LFF | | 1 | | | | |
| RHF | | | 1 | | | |
| LHF | | 1 | 1 | | | |
| CLOACA/TAIL | | | 1 | | | 1#3 = cloaca |
| SEAMS/SCUTES | | 1 | 1 | | | 1#2 on plastron 1#3 posterior head |
| INTERNAL | | | | | | |
| Total | 4 | 7 | 6 | | | |

OTHER INFORMATION:

407A40093D



1/26/99

See pg. 139

TS = [3]

Adv 1+ Leeches

TS

165

LOCATION, SIZE, AND NUMBER OF TUMORS

| | | #1 | #2 | #3 | #4 | Total | Remarks |
|------|--------------|----|----|----|----|-------|---------|
| RT. | RT. EYE | | | | | | |
| LT. | LT. EYE | | | | | | |
| MOU | MOUTH | | | | | | |
| NECK | NECK | | | | | | |
| RFF | RFF | | | | | | |
| LFF | LFF | | | | | | |
| RHF | RHF | | | | | | |
| LHF | LHF | | | | | | |
| CLOA | CLOACA/TAIL | | | | | | |
| SEAM | SEAMS/SCUTES | | | | | | |
| INT | INTERNAL | | | | | | |
| | Total | | | | | | |

OTH

OTHER INFORMATION:

Blank area for other information.

Date: Thu, 31 Dec 1998 12:37:09 -0600 (CST)
From: Barry Choy <barry@mail.nohrsc.nws.gov>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Greeting from George Balazs!

168

See p 168-173

Hey Boss-

I was just down in Tampa for two weeks and Michelle Finn asked me if I heard from you. She said she had heard from you, made feel bad. Anyway we swapped turtle stories, "ah the fishing life", how I miss it especially when its 30 degree F colder than my freezer outside.

Hey, maybe you could arrange a little recon trip for me out to Hawaii, I'll show you more turtle spots on the windward side of Oahu than you can count. I've forgotten more than you'll ever find out there.

The twin reefs you're talking about is probably the best kept a secret. That is the only place I know where people don't pressure the turtles because as you've stated its very difficult to find. The reefs are submerged and only visible after long periods with no rain. Since they are closer to shore the terrigenous runoff makes that area murky. Infact the best way to find the place is to watch for the turtles coming up for air. The reefs are off Waikane. If you follow along the edge of the barrier reef extending from shore directly out from Mr. Hees you'll find just north of the area where that barrier reef curves in and goes all the way to shore. The twin reefs are between the aforementioned barrier reef and the next reef west which is easily recognized because it has a red triangle day shape way out on the north tip (7 or 11 I think it may even be marker 5). Give me your fax number I'll draw out the location from memory, and guarantee you'll find it.

Take care and have Happy New Year

Date: Thu, 31 Dec 1998 13:51:13 -0600 (CST)
From: Barry Choy <barry@nws.gov>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Turtle Spot

George-

I'm trying to fax the little chartlet I drew from memory to you, perhaps your fax machine is busy. The number is 808-983-2902 ?

When you get it, please note that there are probably several more small patch reefs off the Waikane Reef Flat than I've depicted. Just remember to follow the edge of Waikane Flat until you get to the last small patch reef that is just off the main reef. That patch reef is very near the greatest extent that Waikane Reef extends from shore. Look towards the channel day mark depicted as 5 here (I'm pretty sure thats the correct number). You should see the buggers coming up for air frequently in the area around the twin reefs (follow their nose). Cross reference with your Kaneohe Bay nautical chart and if it still doesn't make sense fax me the area around day mark and just southeast, I'll draw the reefs in and fax it back. Good luck and catch a couple for me, for old time sake (you know the ones I like, 80-90+ cm SCL).

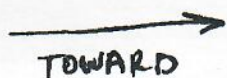
Happy Hunting

LT Barry K. Choy, NOAA
National Operational Hydrologic Remote Sensing Center
Airborne Snow Survey Program
1735 Lake Dr. W
Chanhassen, MN 55317
Ph 612-361-6610 ext. 239
FAX 612-361-6634
E-mail: bchoy@nohrsc.nws.gov
Web site: www.nohrsc.nws.gov

DAYMARK GREEN

KAPAPA FLAT

CHANNEL



HEEIA

DEEP REEF



LINE OF
POLES
LOUTIOE

TWIN REEFS

Three Cross
Reef
POLES

1 pole

WAIKANE REEF
Waihole

GO TO X AND LOOK

1. FOLLOW WAIKANE REEF
EDGE TO LAST SMALL
PATCH REEF.
2. LOOK TOWARD MARKER
"S" ABOUT 300 YDS
FROM BOAT SHOULD
SEE TURTLES BREATHING

POLES
ON WATER



MR. HEE
PIER
T

169

Date: Mon, 4 Jan 1999 09:56:10 -0600 (CST)
From: Barry Choy <barry@nws.gov>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: fax map

see p. 173

Hi George,

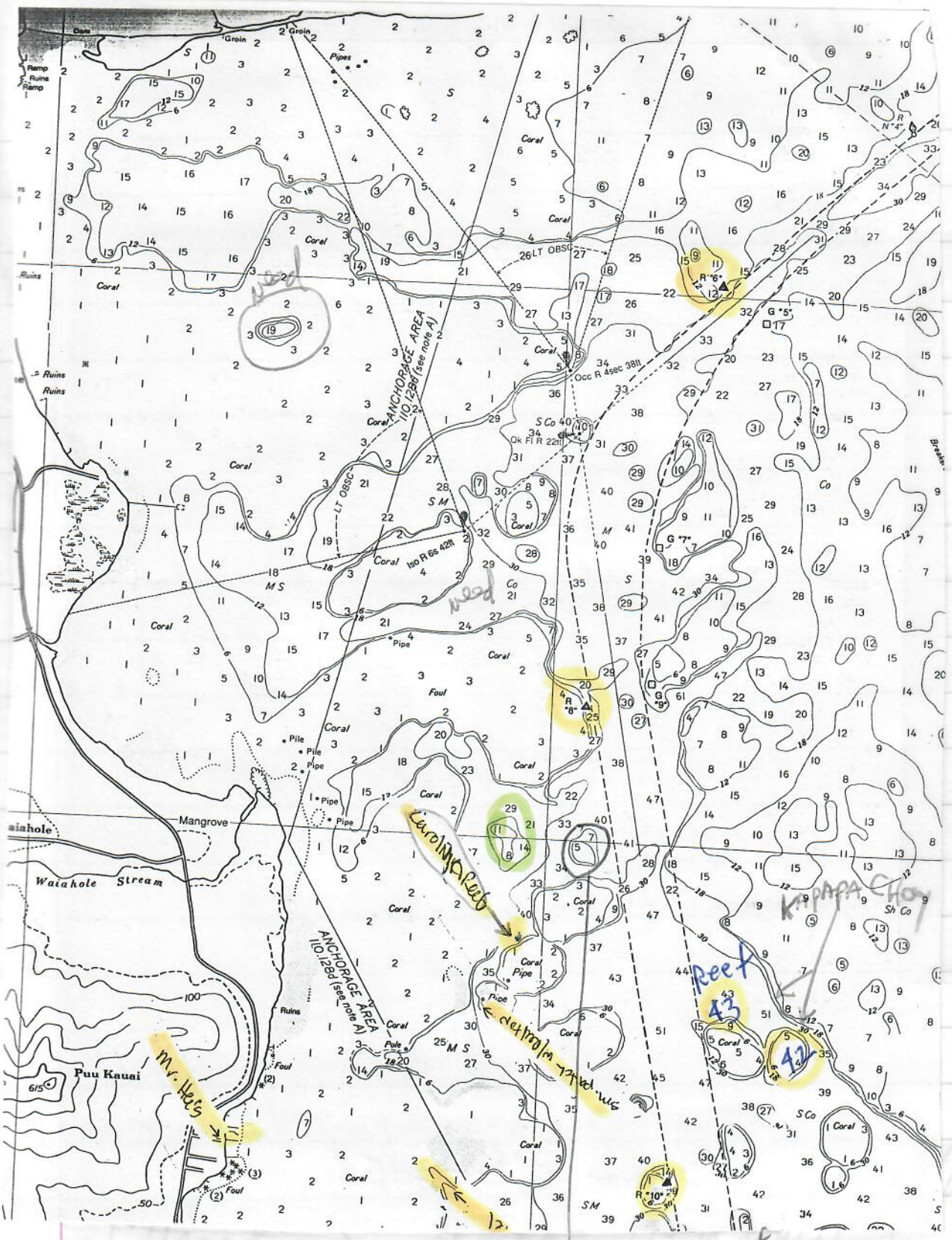
I received the K-bay chart you faxed out on Sunday. Well my memory isn't as good as I thought, but if you replace the marker numbers 5 and 10 on my map with 8 and 10, it looks about the same as the real chart. The 11 foot spot surrounded by 14 ft just off the reef you've marked as Caroline (right above where you wrote the name) is the Turtle spot we dove back in '89 to capture the turtles for Elliott Jacobsen's study. The Caroline reef you've named is the Waikane Reef I named on my map. I don't know why we named that reef Waikane Reef, its actually off Waihole. If you were catching turtles on the edge of Caroline reef, they're probably some of the same turtles that hang out on the other spot. Have you recaptured any turtles we tagged back in '89? If you have a choice, its easier to find the spot at low tide.

When I first moved up here, scientists found frogs in the boundary waters area with severe mutations. Some had four hind legs and other really bizarre characteristics. Apparently, changes in the environment appear first in lower life forms first. There was speculation it may be degradation of the ozone, and subsequent irradiation, which was causing the problem along with a million other theories.

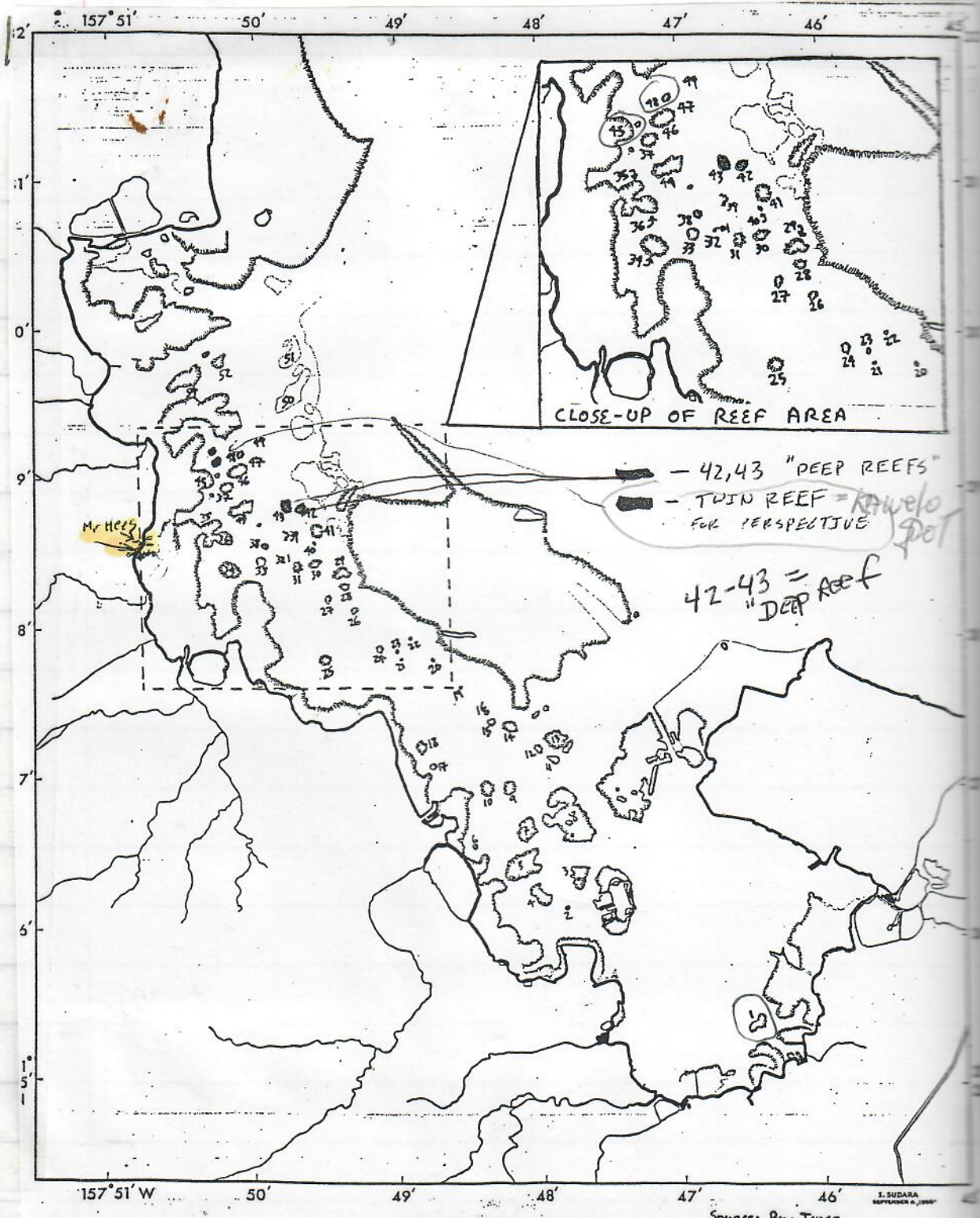
The first thing I thought of, was the turtles in K-bay. I'm not sure what you've seen statistically, but intuitively it sure seemed like that spot off Waihole had a disproportionately high number of turtles with tumors. Perhaps some would argue that our capture statistics are skewed because turtles with tumors are easier caught, but just from a pure observational perspective, there were alot of turtles with tumors in that area. Maybe the numbers are so high right at that reef off Caroline because of all the pesitcides and crap that makes it way into the bay right there from Waihole stream. If you look at the bathymetry, it appears as if the effluent coming from Waihole Stream is funneled by the channel between the two reef flats right to our turtle spot. I wonder if there is a higher instance of tumors in turtles which feed or sleep offshore of river mouths. It would also be interesting to see if anyone has a long record of water quality analysis taken from Waihole Stream and other rivers around the state. I think you could get alot of money for research to solve this turtle tumor mystery once and for all by using the same argument the frog folks used here. I would think the state would like to see the turtle problem resolved too. Its the turtles today and we're next (good bumper sticker w/big tumor coming out of a turtles eye) ha!. Take care and good luck.

LT Barry K. Choy, NOAA
National Operational Hydrologic Remote Sensing Center
Airborne Snow Survey Program
1735 Lake Dr. W
Chanhassen, MN 55317
Ph. 612-361-6610 ext. 239
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E-mail: bchoy@nohrsc.nws.gov
Web site: www.nohrsc.nws.gov

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E-mail: bchoy@nohrsc.nws.gov
Web site: www.nohrsc.nws.gov



REEF
 Seuba / 6/199
 Circum - no signs of
 heavy trawling use
 12 seen



CLOSE-UP OF REEF AREA

— 42,43 "DEEP REEFS"
 — TWIN REEF = Kawelo
 FOR PERSPECTIVE DOT

42-43 = "DEEP REEF"

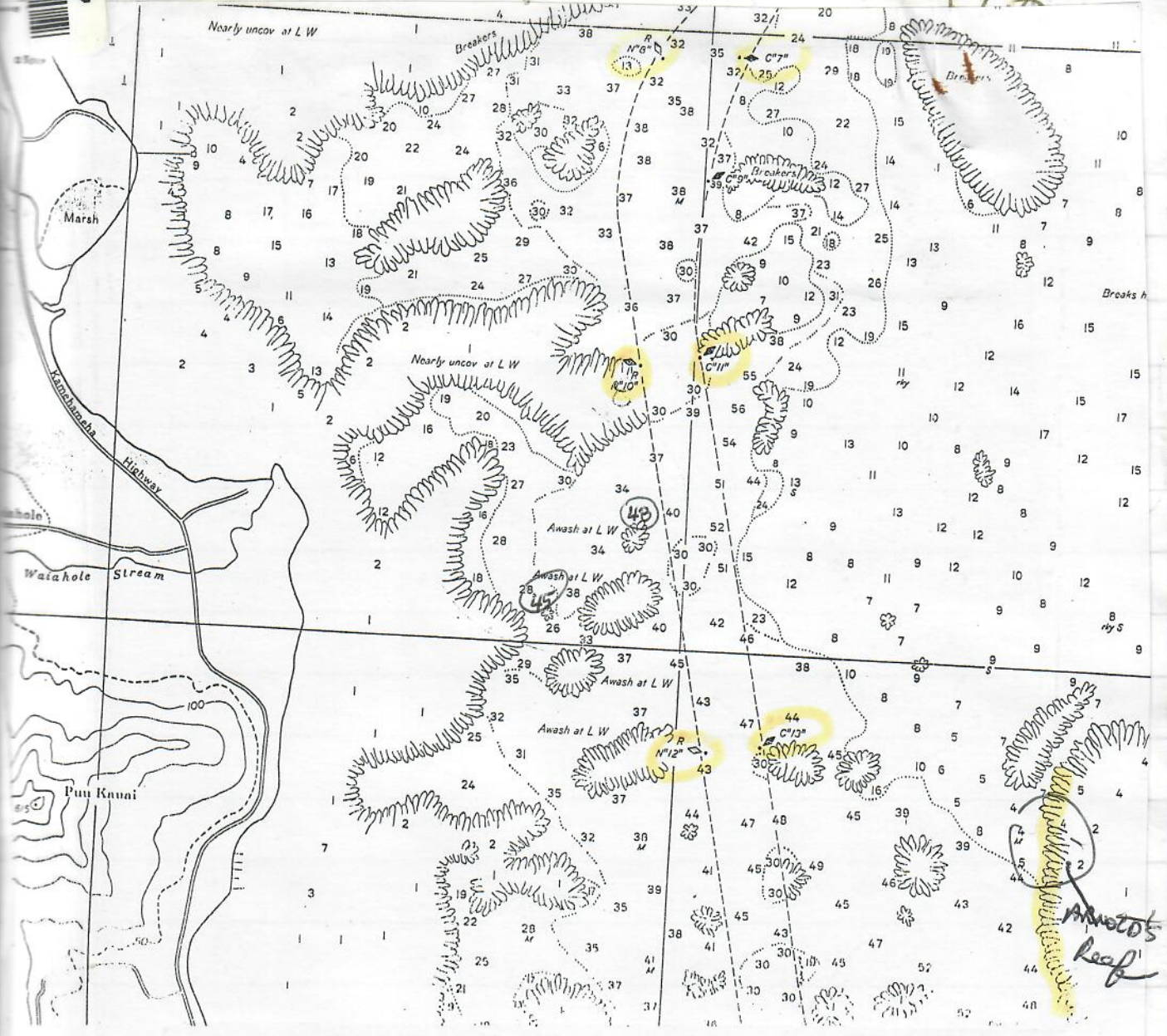
157° 51' W 50' 49' 48' 47' 46' I. SUDARA

SOURCE: BILL TVEER

Caroline "C" Reef = 45?

[Faint handwritten notes and scribbles]

44203



TWIN #1 (South) $21^{\circ}28.930'N$ $157^{\circ}50.078'W$
 Patch at anchor 1-6-99 1154m
 $21^{\circ}29.009'N$, $157^{\circ}49.941'W$
 C (Caroline) small patch = $21^{\circ}28.874'N$,
 $157^{\circ}50.063'W$

173

TAPE IN: ① TABLE FROM TURNOISECONY WORK/GIBB PAPER
② COLOR PRINT KAWALO SPOT + POSTCARD
③ 12/16 - 12/21 KERRY TURM PAGES TO SHAWN/T.W. 250

Date: Thu, 10 Jun 1999 14:21:48 -0500 (CDT)
From: Barry Choy <bchoy@nws.gov>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Return to Hawaii

See p. 168

Hi George-

Well, I've reluctantly returned to the midwest from a pretty full vacation in Hawaii. It would have been nice to see you, but I know you were in the UAE and probably pretty busy catching up after that. I had an overfull plate myself.

Anyway, I just wanted to give you my back seat scientist view on some observations I made while home. As you could guess, I did put in long hard hours on the waters of Kaneohe Bay and Puna on the big island. I did visit our turtle spot off Waiahole mainly to take my nieces over to see some wildlife, which was still wild. Qualitatively, I would have to say the tumor problem looks far less pronounced than ten years previous. I don't think I observed any turtles with the severe tumor afflictions to the nose, eye, and neck regions. The sheer numbers of sightings seem to be greater as well, in all areas of the bay. Although I didn't really spend a great deal of time looking in the sandbar area, it appeared as if there were fewer turtles around the sandbar edge feeding on seagrass.

There were a couple of definite increases in turtle activity over some areas. I decided to take my wife snorkeling over a reef I'd frequently take visitors because of the live coral growth. This reef is located across the main channel from a reef I depicted as three cross reef for you. Its a reef I've called deep reef because you could general take the boat over it at all tides. The coral growth seems to have accelerated and covered much more of the reef, subsequently the reef does seem significantly shallower than 10 years previous. In the past I'd see turtles around the edge of the reef, but on this occasion there were many turtle sleeping in the bare areas and under porites heads on top of the reef. It would have been very easy to catch atleast 8-10 turtles in short order. All the turtles looked pretty clean of tumors, but some had substantial barnacle growth. If you recall, you and I snorkeled on a reef which is very close (10 yds) seaside of deep reef. We saw a dead turtle which was pinned and drowned by a big coral shelf which broke off while it was sleeping under it. Well, I won't strain your eyes any longer. I'm probably rehashing old ground for you. Take care my friend.

LT Barry K. Choy, NOAA
National Operational Hydrologic Remote Sensing Center
Airborne Snow Survey Program
1735 Lake Dr. W
Chanhassen, MN 55317
Ph. 612-361-6610 ext. 239
FAX 612-361-6634
E-mail: bchoy@nohrrsc.nws.gov
Web site: www.nohrrsc.nws.gov

W800

59-517000-0127 APR 10 1999

4478.8875 = 4478.8875 (airline)

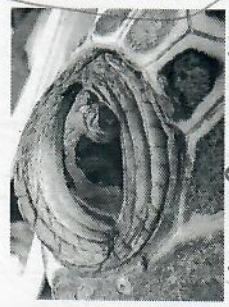
1570 20.0000 W

~~KBay~~

Show - date is followed by the last 3 numbers of the LH pit tag. So on underside precedes the last three.



* REYEKBA112007F MVC-001F



✓ LEYEKBA112007F MVC-002F



✓ LEYEKBA1120262 MVC-003F



✓ REYEKBA1120262 MVC-004F



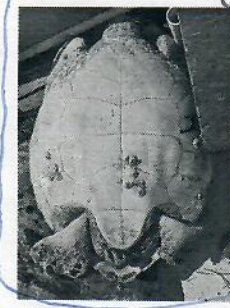
✓ REYEKBA1120262 MVC-005F



✓ LEYEKBA1120571 MVC-006F



✓ REYEKBA1120571 MVC-007F



Bill Newman MVC-008F



✓ LEYEKBA1120049 MVC-009F



✓ LEYEKBA1120049 MVC-010F



* REYEKBA1120049 MVC-011F



✓ REYEKBA1120049 MVC-012F

УБАЕНСКБА1120049

KRAY 11/21/00

Bill Newman



✓ LEYE3 KBAY 1121976 MVC-013F



✓ LEYE4 BAY 1121976 MVC-014F



✓ TAG KBAY 1121979 MVC-015F



✓ TAG 3 BAY 1121979 MVC-010F



✓ LEYE KBAY 1121979 MVC-017F



✓ LEYEAK BAY 1121979 MVC-018F



✓ REYEKBAY 1121979 MVC-019F



✓ REYEKBAY 1121979 MVC-020F



MVC-021F

Bill Newman

✓ BARNS KBAY 1121976

KBAY 11/20/00-11/21/00

SKAM -
* = upside down to up?
can you turn to up?
right side up?

426
703



✓ LEYEBAY 1121976 MVC-001F



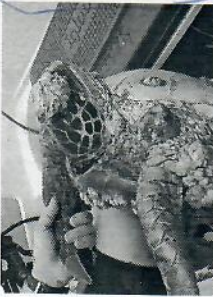
✓ VIEWKBAY 1121976 MVC-002F



✓ REYEKAY 1121976 MVC-003F



✓ REYEAKB 1121976 MVC-004



✓ VIEWKBAY 1121976 MVC-005F



✓ DBARNSKBAY 1121976 MVC-006F



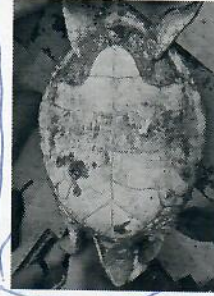
✓ DBARNSKBAY 1121976 MVC-004F



✓ LEYEBAY 1121976 MVC-008F



* ✓ VBAENSKBAY 1121976 MVC-009F



✓ VBAENSKBAY 1121976 MVC-010F



✓ DBARNSKBAY 1121976 MVC-011F



✓ REYEKBA 1121329 MVC-012F



MVC-013F



* ✓ LEYEBAY 1121329 MVC-014F

KRAY 11/21/00

183

SEA TURTLE NECROPSY/TUMOR FORM

RELEASE DATE: 11 / 13 / 98 MTRP STRANDING ID 10-31-98

| | | |
|---|-------------------|--|
| CONTACT: Earl (DOCARE) via Patty Herrera (SSG) | DATE: 10-31-98 | LOCATION: Haleiwa (Puaena Point) |
| PERSON RECORDING DATA: SKKM | | |

DESCRIPTIVE REMARKS: NMFS-KRF Captive from 11/4 to 11/13/98.
 Taken to Makai Animal Clinic by GHB/SKMM for cryosurgery.
 Cryosurgery: right side neck 1#2 (twice)
 dorsal left side neck 1#1 (twice)
 RHF 1#1 associated with RHF 1#4 (once)
 ventral right pectoral shoulder RFF 1#2 (twice)
 Painted blue on seam between 2nd-3rd L. laterals and seam
 between 1st-2nd R. laterals.
 Given 8.0cc IM Liguamycin.
 Released at Kaneohe Bay Beach Park by GHB/SKMM, turtle swam
 off strongly.
 "Moki" name given by female beachgoer.

TAGS: *New*

| | | | |
|------------|-----|-----------------------------------|-------|
| 4077302A01 | LF | SEX: MALE, FEMALE OR UNDETERMINED | |
| 4104027851 | LHF | DB: 0 | VB: 0 |

| | | | |
|----------------------------|---------|---|--------|
| STRAIGHT CARAPACE-LENGTH: | 85.6cm | WIDTH: | 68.6cm |
| NOTCH LENGTH: | 85.5cm | PPS (Y/N): | |
| CURVED CARAPACE LENGTH: | 90.5 cm | WIDTH: | cm |
| HEAD WIDTH: | cm | | |
| TAIL LENGTH: T | cm | C | cm |
| RIGHT FRONT FLIPPER WIDTH: | cm | SAMPLES COLLECTED: Blood taken for plasma banking and RBC for DNA | |
| PLASTRON LENGTH: | cm | | |
| WEIGHT: | # | | |

Haleiwa Poena Pt. H
 10-31-98 Oahu
 via Patty Herrera

Police Beach.
 (same as numerous calls)

SCl 85.5 cm
 SCW ~~85.5~~ 68.5
 notch 85.3 cm
 Cll 90.5
 CCW 83.0
 Head 12.5 cm
 RFF 14.0 cm

#3 LJT
 #2 RSH
 #1 on tongue
 2 on jaw hinge

Plastron 69.0 cm
 Tail 32 Cbua 20
 PP 5 4

Tumors

| | #1 | #2 | #3 | #4 |
|-------|----|----|----|----|
| eye | 2 | 1 | | |
| eye | | 2 | | |
| mouth | 5 | 1 | 1 | |
| neck | | 4 | | |
| RPF | | 1 | 1 | |
| LPF | | | 2 | |
| CHF | | | 1 | 4 |
| RHP | | | | 3 |
| Tail | | | 1 | 1 |

```

***** Option Summary *****
(use -options to get a description)

auto (default), postscript, pcl, hpgl2, hpgl2_p, raw, relay
yb, nb                               dpi
simplex, duplex, hduplex              topbin, rearbin
legal, letter, A4, exec               manual, upper, lower, com10env
portrait, landscape
3hole                                 ln66
ascii                                  
```

~~#1~~ #2 #3 #4

7 9 6 8 =

~~Seach eggs~~


OVERALL
 TUMOR SCORE =
 3


30
 TOTAL

185

Grand ID
 CAPTURE DATE, LOCATION AND METHOD: *12-29-98* *1/3*
MADE IN USA Release *12-8-98* *12-29-98* *JAN 06 1998*

PERSON RECORDING DATA: *DMS*

OLD TAGS: NEW TAG:  407A476A2F

TUMOR SCORE: LFF
 OTHER NEW TAGS:  407A427118
 3 LHF

STRAIGHT CARAPACE-LENGTH: WIDTH:

NOTCH LENGTH: DB: L.O. VB:

CURVED CARAPACE LENGTH: WIDTH:

HEAD WIDTH: SEX: MALE, FEMALE OR UNDETERMINED

PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED: *12cc Blood Tissue*

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS: *3.6 mL LQ(0.7)*

Released C-Area of KBay

repeat data pages of p. 143

186

18.9 222

STAGS
 ID MARKENA
 12-2-98 STR. AREA
 Release
 hBAY 12-29-98

JAN 06 1009

CAPTURE DATE, LOCATION AND METHOD

PERSON RECORDING DATA: Dme

OLD TAGS:

TUMOR SCORE: 3

NEW TAG: 407A462955
 LAF

OTHER NEW TAGS: 407A40526B
 LAF

STRAIGHT CARAPACE-LENGTH: 41.7 WIDTH: 30.6

NOTCH LENGTH: 47.2 DB: L.O. VB: L.C.

CURVED CARAPACE LENGTH: 52.0 WIDTH: 45.0

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED U

PPS: YES OR NO OR NE

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

WEIGHT:

DESCRIPTIVE REMARKS: h7ML L9 (ox)

SAMPLES COLLECTED: NO BLOOD

Released C-Area of hBAY

(187)

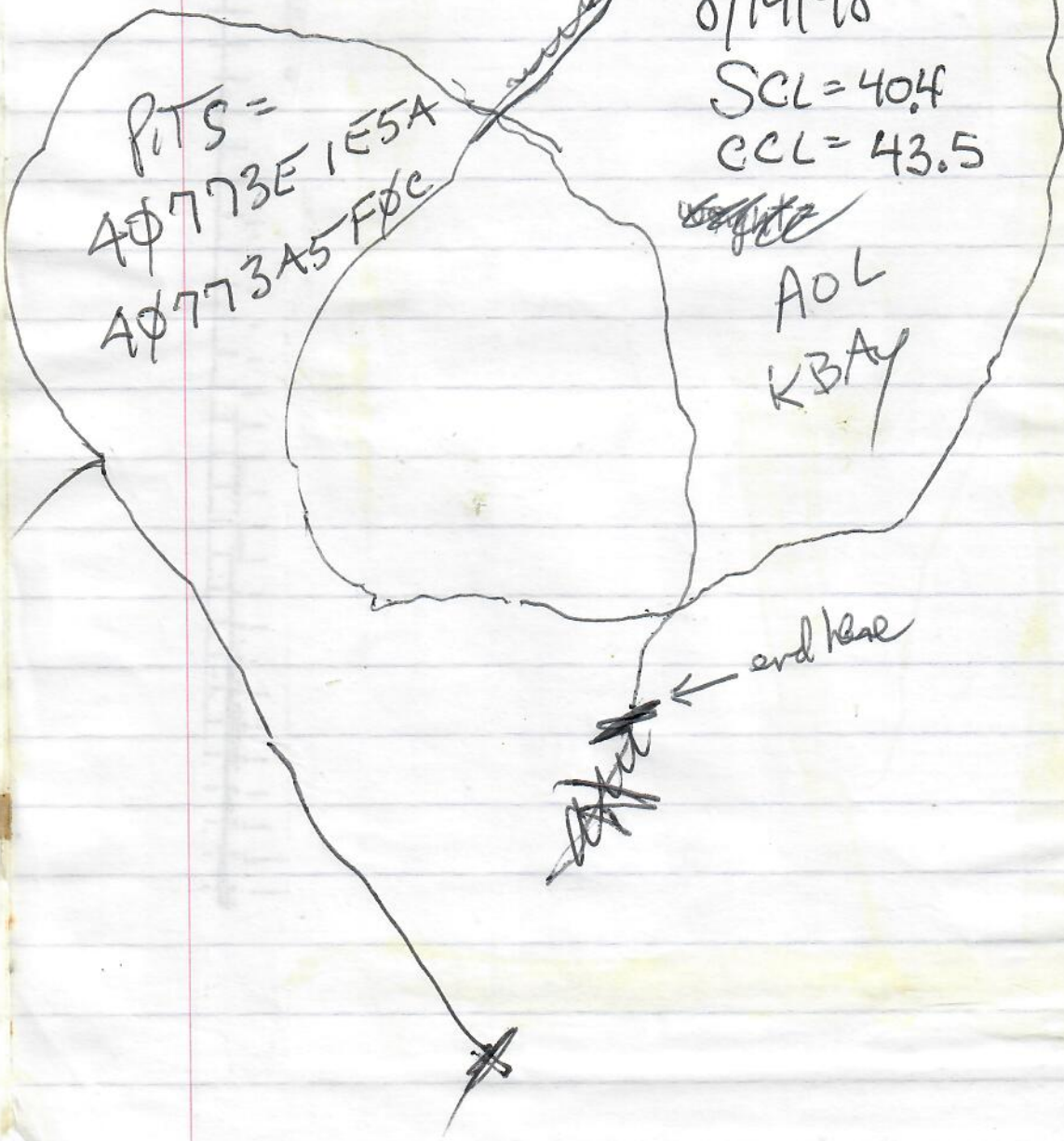
See p. 31

54.9 to 2000
sub target

SKM Meas. (11-6-98)

RHF = 86.03809 / 86.77336 / 86.68157

LHF = 83.11029 / 82.86383 / 82.74586



189

SEA TURTLE ~~RECORD~~/TUMOR FORM

Release

DATE: 6/2/98 MTRP STRANDING ID 3-31-98

| | | |
|----------------------------|-----------------------|--|
| CONTACT: Madline Scherman | DATE: MTRP ID 3-31-98 | LOCATION: Kaiwai nui Canal, Kaibee, oahu |
| PERSON RECORDING DATA: SME | | |

DESCRIPTIVE REMARKS: Found beached alive. P/u by SME and DME and taken to Makai Animal Clinic. Transferred to NMFS-KRF on 4-2-98. Brought to NMFS-Honolulu Lab on 6-2-98. Given 2.3 cc IM Liguamycin.

Tagged and released by GHB at Kawaiiki Beach Park on 6-2-98. 7PM. Dove without buoyancy and swam slowly away from shore.

Moderate emaciation

TAGS: New 6/3/98
 407D307627


SEX: MALE, FEMALE OR UNDETERMINED

DB: VB:

STRAIGHT CARAPACE-LENGTH: 52.7 cm WIDTH: 42.1 cm

NOTCH LENGTH: 52.3 cm PPS (Y/N): N

CURVED CARAPACE LENGTH: 56.5 cm WIDTH: 49.5 cm

HEAD WIDTH: 8.5 cm

TAIL LENGTH: T 9.5 cm C 6.5 cm

RIGHT FRONT FLIPPER WIDTH: 9.0 cm

PLASTRON LENGTH: 42.2 cm

WEIGHT: 33.0 #

SAMPLES COLLECTED: 6/3/98
 3.2 cc Lig.

Note: other Antibiotics given to this turtle by R. Morris for Therapeutics.

190/19

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | TOTAL | REMARKS |
|--------------|----|----|----|----|-------|---------------------|
| RT. EYE | 2 | | | | | |
| LT. EYE | 2 | | | | | 1#1 halfway ringing |
| MOUTH | 1 | | | | | 1#1 Rt. jaw hinge |
| NECK | 1 | 1 | | | | 1#2 necrotic |
| RFF | 2 | | | | | |
| LFF | 2 | | | | | |
| RHF | | | | | | |
| LHF | | | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| TOTAL | | | | | | |

OTHER INFORMATION:

TUMOR SCORE:

APPROXIMATE TUMOR SIZE CATEGORIES:

- #1 = DETECTABLE PATCH TO 1CM DIAMETER
- #2 = >1CM TO 4CM
- #3 = >4CM TO 10CM
- #4 = >10CM

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SEA TURTLE ~~NECROSIS~~ TUMOR FORM

~~RECEIVED~~ DATE: 5/28/98 MTRP STRANDING ID 5-15-98

| | | |
|---------------------------------|---------------|------------------------|
| CONTACT: Shandell Eames | DATE: 5-15-98 | LOCATION: Waimea, Oahu |
| PERSON RECORDING DATA: SME/SKMM | | |

DESCRIPTIVE REMARKS:
 Found beached live. P/U by SME and taken to NMFS-KRF. Transferred to Makai Animal Clinic by Dr. Morris, where he removed #1 glottal tumor and #1 lft. jaw hinge tumor. Tumors saved and given to GHB. Turtle taken to NMFS-KRF on 5-21-98. Tagged and released on 5-28-98 @ ~~_____~~ by GHB. Given 1.0 mL liquor. Moderate emaciation. Leech eggs.

END OF Bay street near Parko Lagoon 545 PM, Swan Direct out

TAGS:

New

407D290438



SEX: MALE, FEMALE OR UNDETERMINED

DB: VB:

STRAIGHT CARAPACE-LENGTH: 43.7 cm WIDTH: 36.4 cm

NOTCH LENGTH: 43.4 cm PPS (Y/N): N

CURVED CARAPACE LENGTH: 45.5 cm WIDTH: 41.5 cm

HEAD WIDTH: 7.1 cm

TAIL LENGTH: T 7.5 cm C 5.0 cm

RIGHT FRONT FLIPPER WIDTH: 8.0 cm

PLASTRON LENGTH: 36.4 cm

WEIGHT: 22.0 #

SAMPLES COLLECTED:

Glottis Tumor


1st 1070

Family

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | TOTAL | REMARKS |
|--------------|----|----|----|----|-------|---|
| RT. EYE | 1 | | | | | |
| LT. EYE | 3 | | | | | 1#1 upper eyelid 1#1 eyelid 1#1 lower eyelid |
| MOUTH | 2 | 1 | | | | 1#1 each jaw hinge 1#2 glottis |
| NECK | | 6 | | | | |
| RFF | 3 | 2 | | | | 1#2 dorsal side next to claw |
| LFF | 2 | 3 | | | | 1#2 dorsal side next to claw |
| RHF | | | | | | |
| LHF | | 1 | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| TOTAL | | | | | | |

OTHER INFORMATION:



TUMOR SCORE: 2

- APPROXIMATE TUMOR SIZE CATEGORIES:
- #1 = DETECTABLE PATCH TO 1CM DIAMETER
 - #2 = >1CM TO 4CM
 - #3 = >4CM TO 10CM
 - #4 = >10CM

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NMFS, HONOLULU LAB
Marine Turtle Research
2570 Dole Street
Honolulu, HI 96822-2396

SEA TURTLE TUMOR FORM

DATE: 05 / 22 / 98 MTRP STRANDING ID 05-22-98

| | | |
|-----------------------------|-------------------|-------------------------------|
| CONTACT: Mike McHale | DATE: 05-22-98 | LOCATION: Laniakea Oahu |
| PERSON RECORDING DATA: SKKM | | |

DESCRIPTIVE REMARKS:
 Found alive and beached. P/U by SME and RC and taken to Makai Animal Clinic. Glottal tumor removed by Dr. Morris. Turtle transferred to NMFS lab. Given 4.3cc IM Liguamycin. Tagged and released at Kawaikui Beach Park. *3pm 5-22-98 Swam out vigorously*

| | |
|--|--|
| TAGS: PIT 407D3A6E2F  | SEX: MALE, FEMALE OR UNDETERMINED U |
| DB: 0 | VB: 0 |

| | |
|-----------------------------------|------------------------|
| STRAIGHT CARAPACE-LENGTH: 63.1cm | WIDTH: 51.1cm |
| NOTCH LENGTH: 62.9cm | PPS (Y/N): Y |
| CURVED CARAPACE LENGTH: 67.0cm | WIDTH: 60.5cm |
| HEAD WIDTH: 9.7cm | |
| TAIL LENGTH: T 14.0cm C 10.0cm | SAMPLES COLLECTED: |
| RIGHT FRONT FLIPPER WIDTH: 10.4cm | Glottal tumor |
| PLASTRON LENGTH: 50.1cm | <i>in 10% Formalin</i> |
| WEIGHT: 75.8# | |

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LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | TOTAL | REMARKS |
|--------------|----|----|----|----|-------|-------------------------|
| RT. EYE | 1 | 2 | | | 3 | |
| LT. EYE | 4 | | | | 4 | 1#1 ringing bottom lid |
| MOUTH | 1 | 1 | | | 2 | 1#1 LJH/1#2 RJH |
| NECK | | | | | | |
| RFF | | 2 | | | 2 | 1#2 betw. dorsal scales |
| LFF | | 1 | | | 1 | |
| RHF | | | | | | |
| LHF | | | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | 1 | | | 1 | Betw. R. gular/humeral |
| INTERNAL | | | | | | |
| TOTAL | 6 | 7 | | | 13 | |

OTHER INFORMATION:

[Empty box for other information]

TUMOR SCORE:

APPROXIMATE TUMOR SIZE CATEGORIES:

- #1 = DETECTABLE PATCH TO 1CM DIAMETER
- #2 = >1CM TO 4CM
- #3 = >4CM TO 10CM
- #4 = >10CM



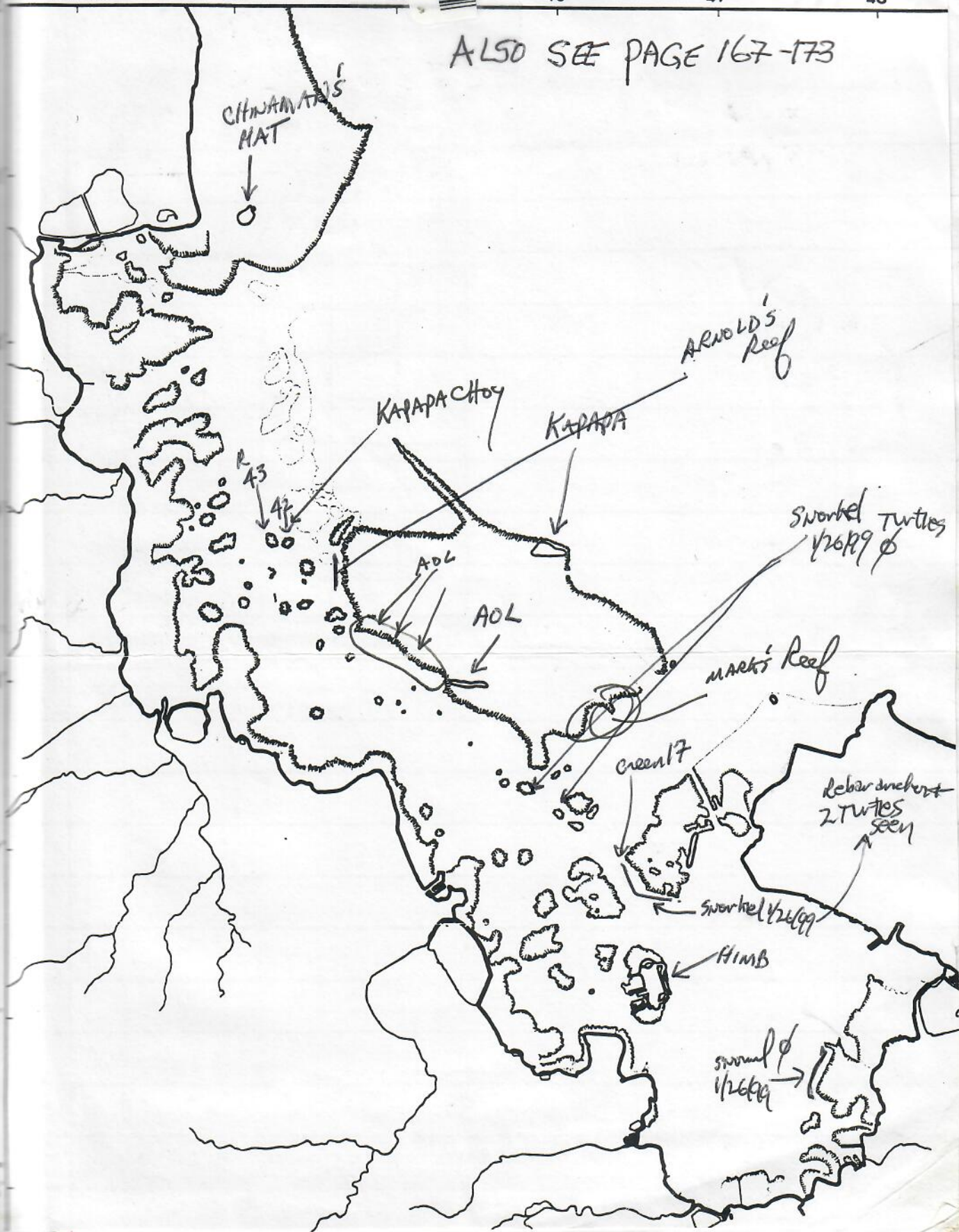
195

Table 1. Numbers of each size class of tumors used for placement into a particular tumor score category for turtles afflicted with fibropapillomatosis.*

| Size class and Estimated tumor size | Tumor score | | | |
|---|-------------|------|------|------|
| | TS=0 | TS=1 | TS=2 | TS=3 |
| (A) <1 cm | 0 | 1-5 | >5 | >5 |
| (B) 1-4 cm | 0 | 1-5 | >5 | >5 |
| (C) 5-10 cm | 0 | 0 | 1-3 | >4 |
| (D) >10 cm | 0 | 0 | 0 | >1 |

*Based on the actual count of tumors on 108 turtles from Molokai subjectively scored in this study.

ALSO SEE PAGE 167-173



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340E

See p. 21

5/28/98

KBAM reanalyzed upon release

Tag information--
 Tag Number 70215548 Date Tagged 05/12/98 Tag Type PIT Tag Position PIT

Historical information--

| Date | Encounter | Type of | Location | Tumor Score | Nesting Activity | Straight Length | Since Last Encounter | | Overall | |
|----------|------------|---------|---------------------------------|-------------|------------------|-----------------|----------------------|---------------------|----------------|---------------------|
| | | | | | | | Interval Month | Growth-rates cm/mon | Interval Month | Growth-rates cm/mon |
| 05/12/98 | Near Shore | | Oahu, Kaneohe Bay; Deep/42 & 43 | 0 | - | 68.9 | --- | --- | --- | --- |
| 05/28/98 | Near Shore | | Oahu, Kaneohe Bay; Deep/42 & 43 | 0 | - | 69.0 | --- | --- | --- | --- |

LOCATION, SIZE, AND NUMBER OF TUMORS

| | #1 | #2 | #3 | #4 | Total | Remarks |
|--------------|----|----|----|----|-------|---------|
| RT. EYE | | | | | | |
| LT. EYE | | | | | | |
| MOUTH | | | | | | |
| NECK | | | | | | |
| RFF | | | | | | |
| LFF | | | | | | |
| RHF | | | | | | |
| LHF | | | | | | |
| CLOACA/TAIL | | | | | | |
| SEAMS/SCUTES | | | | | | |
| INTERNAL | | | | | | |
| Total | | | | | | |

OTHER INFORMATION:

as in *five* or *they've*, and to form the plural of a letter or number as in the three *n's*, *7's* and *11's*.

An **hyphen** divides words in syllables such as compound words like *twenty-five*.

A **quotation mark** indicates the exact words someone spoke. Use with titles of songs, short stories, chapter titles, short plays, television programs, magazine articles and poems.

Underlining is used with the titles of books, movies, newspapers, magazines, long plays and poems.

