

G. H. BALAZS

3 of 3

**KAPOHO**  
COMPOSITION®

NAME **BALAZS** (808) 286-2819

SUBJECT **KAPOHO SEPTEMBER 20-27 2006**

E-MAIL **VI KAPOHO APRIL 27 - MAY 4**

**JUNE 13, 2006**

100 Sheets (200 Pages)  
9 3/4" x 7 1/2" (24.7 cm x 19.0 cm)  
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**XII KAPOHO FEB 10-14 08**

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SEWN  
PAGES



**BALAZS**  
Marine Turtle Research  
NOAA NMFS PIFSC  
2570 Dole Street  
Honolulu, Hawaii 96822

153

#36

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/2/07

CAPTURE DATE, LOCATION AND METHOD:

5/1/07 Kapoho Champagne Pond  
PERSON RECORDING DATA: SK Hand/ snorkel

TUMOR SCORE

0  
ORAL TMRS EXT:  
YES OR NO  
-

EMACIATION CODE

0

OLD TAGS:

LH 424D2B355D  
RH 424FOF131C

NEW TAGS:

RFL  
LFL  
"11" mototool

STRAIGHT CARAPACE - LENGTH:

60.6 cm

WIDTH:

45.2 cm

NOTCH LENGTH:

60.5 cm

DB:

⊖ L.O.

VB:

⊖ L.O.

CURVED CARAPACE LENGTH:

65.5 cm

WIDTH:

55.0 cm

HEAD WIDTH:

- cm

LATERAL 24.0 cm

POST LATERAL 16.6 cm

PPS: YES OR NO OR NE

Yes

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

15.0 cm

21.2 cm

C 10.5 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

49.0 cm

Tissue (RA) - J. Turner

WEIGHT:

64.9 #

Stomach Flush

DESCRIPTIVE REMARKS:

#36

MTRP ONLY



#37

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**SEA TURTLE TAGGING FORM**

DATE FORM FILLED OUT 5/2/07

CAPTURE DATE, LOCATION AND METHOD:

5/1/07 Kapoho Champagne Pond  
PERSON RECORDING DATA: SK Hand/Snorkel

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

LA 422D62752C  
RH 422E745C5E

NEW TAGS:

RFL  
LFL  
"11" motatoo1

STRAIGHT CARAPACE - LENGTH:

65.0 cm

WIDTH: 50.2 cm

NOTCH LENGTH: 64.6 cm

DB: 0 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

71.0 cm

WIDTH: 63.5 cm

HEAD WIDTH: - cm

LATERAL 28.0 cm

POST LATERAL 20.2 cm

PPS: YES OR NO OR NE ☒

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T 15.0 cm

24.8 cm C 10.5 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH: 51.2 cm

Tissue - J. Turner

WEIGHT: 87.8 #

Stomach Flush

DESCRIPTIVE REMARKS:

Partially Inflamed & Ventrals - Rugous  
Closed

#37

KT VALDEZ



FILE #

#38

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155

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5, 2, 07

CAPTURE DATE, LOCATION AND METHOD:

HAND SNORREL

5/2/07 BI Channel  
Wednesday (by Jill Q)  
PERSON RECORDING DATA: SK

TUMOR SCORE

0 RH

ORAL TMRS EXT: YES OR NO LH

—

EMACIATION CODE

0

OLD TAGS:

4414304876  
4422014005

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

85.3 cm

WIDTH:

65.2 cm

NOTCH LENGTH:

— cm

DB:

7 L.O.

VB:

2 L.O.

CURVED CARAPACE LENGTH:

— cm

WIDTH:

— cm

HEAD WIDTH:

— cm

LATERAL

— cm

POST LATERAL

— cm

PPS: YES OR NO OR NE

N

MIDLATERAL

SEX: Male, Female or Undetermined

F

TAIL LENGTH: T

24.0 cm

—

C 16.0 cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

70.1 cm

Tissue (RH) - S. Turner

WEIGHT:

206.3

Stomach Flush - MTRP only

DESCRIPTIVE REMARKS:

227.8 = 1 tube  
- 21.5  
206.3

#38

no molt to 1



#39

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

5.3.07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Blind Inlet - night

PERSON RECORDING DATA:

C. Baskin

Hand / Snorkel

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:


NEW TAGS:

RH

470C797071

LF



LH

470B523363



STRAIGHT CARAPACE - LENGTH:

65.6 cm

WIDTH:

47.6 cm

NOTCH LENGTH:

65.2 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

72.0 cm

WIDTH:

60.0 cm

HEAD WIDTH:

- cm

LATERAL 26.6 cm

POST LATERAL 19.5 cm

PFS: YES OR NO OR NE

Yes

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T

16.5 cm

24.0 cm

11.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

50.9 cm

Tissue - DNA

WEIGHT:

85.2 #

Stomach Flush

DESCRIPTIVE REMARKS:

notches on both post-centrals

no nototail

KT  
VALEZ



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#40

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Blind-Inlet - night

PERSON RECORDING DATA:

SK

Hand/ snorkel

TUMOR SCORE

0

ORAL TMRS EXT.  
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

4523274D7D

45273F0406

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

59.7 cm

WIDTH:

47.6 cm

NOTCH LENGTH:

59.7 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

65.5 cm

WIDTH:

58.0 cm

HEAD WIDTH:

— cm

LATERAL

25.7 cm

POST LATERAL

18.2 cm

PPS: YES OR NO OR NE

Y

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T

12.0 cm

22.8

C

8.0 cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

48.0 cm

Tissue (LH) - J. Turner

WEIGHT:

75.7 #

Stomach Flush

DESCRIPTIVE REMARKS:

#40

n.o. mototool

AT VALDEZ



REV# #41

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Mangrove Cave - night

PERSON RECORDING DATA:

SK

Hand/ Snorkel

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:


NEW TAGS:

RFL

4454473815

LFL

445226301A

LH

STRAIGHT CARAPACE - LENGTH:

41.6 cm

WIDTH: 34.7 cm

NOTCH LENGTH: 40.6 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

44.5 cm

WIDTH: 41.0 cm

HEAD WIDTH: - cm

LATERAL: 18.1 cm

POST LATERAL: 12.0 cm

FPS: YES OR NO OR NE

Y

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T 7.5 cm

15.6 cm

5.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH: 33.0 cm

WEIGHT:

24.7 #

DESCRIPTIVE REMARKS:

#41

no molofoto

Tissue - DNA + J. Turner

Stomach Flush

MTRP

For Russell  
ID



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**SEA TURTLE TAGGING FORM**

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Mangrove Cove  
PERSON RECORDING DATA: Hand/ snorkel

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:


NEW TAGS:

44552C3A17



44525E3057



STRAIGHT CARAPACE - LENGTH:

47.8 cm

WIDTH:

38.9 cm

NOTCH LENGTH:

47.8 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

52.5 cm

WIDTH:

46.0 cm

HEAD WIDTH:

- cm

LATERAL

20.3 cm

POST LATERAL

14.3 cm

PPS: YES OR NO OR NE

NO

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T

12.0 cm

18.2 cm

8.0 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

- cm

skin bernier

PLASTRON LENGTH:

39.0 cm

tissue DNA J. Turner

WEIGHT:

40.1 #

Stomach flush

DESCRIPTIVE REMARKS:

#42

no molted

MTRP only 2.E.

MTRP

159

#42



REV 1

#43

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**SEA TURTLE TAGGING FORM**

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho mangrove Cave  
PERSON RECORDING DATA: JK Hand/ snorkel

NIGHT

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

1

EMACIATION CODE

0

OLD TAGS:

~~XXXXXX~~

NEW TAGS:

4453582F6D



44522D2274



STRAIGHT CARAPACE - LENGTH:

59.4 cm

WIDTH:

5 cm

NOTCH LENGTH:

59.1 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

65.0 cm

WIDTH:

17.0 cm

HEAD WIDTH:

24.3 cm

LATERAL

24.3 cm

POST LATERAL

17.0 cm

PPS: YES OR NO OR NE

N

MIDLATERAL

SEX: Male, Female  
or Undetermined

0

TAIL LENGTH: T

13.0 cm

21.7 cm

10.0 cm

RIGHT FRONT FLIPPER WIDTH:

46.7 cm

SAMPLES COLLECTED:

#43

PLASTRON LENGTH:

46.7 cm

tissue-left hind

WEIGHT:

65.7 #

DNA/J. Turner

DESCRIPTIVE REMARKS:

Stomach flush

MTRP only

FOR D.O.R.

5-6-7th MARGINAL Left  
indented and healed.  
no notofoss



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**SEA TURTLE TAGGING FORM**

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho mangrove Cove

PERSON RECORDING DATA:

8

Hand/Sharkey

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

Diagram of a turtle carapace with a diagonal line across it, indicating no old tags.

NEW TAGS:

RFL

470B493B6D

LFL

RH

LA

470A082A21

STRAIGHT CARAPACE - LENGTH:

56.1 cm

WIDTH:

~~56.1~~ cm

NOTCH LENGTH:

55.7 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

61.5 cm

WIDTH:

~~61.5~~ cm

HEAD WIDTH:

- cm

LATERAL

24.4 cm

POST LATERAL

16.1 cm

PPS: YES OR NO OR NE

Y

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

13.0 cm

20.7 cm

8.5 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

43.8 cm

stomach flush

WEIGHT:

57.6 #

tissue (DNA) J. Turner

DESCRIPTIVE REMARKS:

#44

MTRP

FOR MTRP D.R.

6th right marginal indented - no width measurement  
- posterior corner of both eyes grey/cloudy - suspicious

no molted?



FIGURE

#45

N=5 Mangrove Cove

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

NIGHT

5/2/07 Kapoho mangrove Cove

PERSON RECORDING DATA:

SK

Hand/ Snorkel

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:


NEW TAGS:

RFL

470D14010B

LFL

470C311730

LT

STRAIGHT CARAPACE - LENGTH:

49.6 cm

WIDTH:

40.4 cm

NOTCH LENGTH:

49.3 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

54.0 cm

WIDTH:

47.0 cm

HEAD WIDTH:

- cm

LATERAL

20.7 cm

POST LATERAL

13.3 cm

FPS: YES OR NO OR NE

Y

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

9.5 cm

16.9 cm

6.5 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

39.5 cm

Tissue - DNA

WEIGHT:

38.3 #

Stomach Flush

DESCRIPTIVE REMARKS:

#45

No molt tool Applied

MTRP  
TO MTRP for  
Dennis Russell



New  
TDR

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163

#410

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

NIGHT

5/2/07 Kapoho Champagne Pond

PERSON RECORDING DATA: Jill Q Hand/Shortel

TUMOR SCORE

0

RH

ORAL TMR EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

452425775A

416020F7041

TDR MK9

0490256

NEW TAGS:

RFL

LFL

470B5C3F03



Motobool "G"

STRAIGHT CARAPACE - LENGTH:

70.6 cm

NOTCH LENGTH:

70.4 cm

CURVED CARAPACE LENGTH:

77.0 cm

HEAD WIDTH:

- cm

PPS: YES OR NO OR NE

N

TAIL LENGTH: T

20.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

PLASTRON LENGTH:

56.4 cm

WEIGHT:

122.6 #

DESCRIPTIVE REMARKS:

LH PIT difficult to pick-up/read.  
added an additional PIT to LH 3rd lateral  
no motobool applied

2nd pit L&R

DB: 0 L.O.

VB: 0 L.O.

WIDTH: 72.5 cm

LATERAL 30.2 cm

POST LATERAL 21.5 cm

MIDLATERAL

24.7 cm

SEX: Male, Female or Undetermined

4

SAMPLES COLLECTED:

#410

\* Gracilaria

Tissue = DNA

Stomach Flush (split in half)

\* TDR 0490256 ATTACHED

New 56

Mare/Rice

lateral Left

MTRP

KTV  
J Turner  
MTRP



11/11/07

#47

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**SEA TURTLE TAGGING FORM**

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Champagne Pond  
PERSON RECORDING DATA: SK Hand/Sharkey

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

LH 4234764B11  
RH 422F0A3E52

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

56.8 cm

NOTCH LENGTH:

56.7 cm

WIDTH:

46.7 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

62.5 cm

HEAD WIDTH:

- cm

WIDTH:

58.0 cm

PPS: YES OR NO OR NE

N

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

11.5 cm

16.4 cm

8.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

47.4 cm

WEIGHT:

60.4 #

(RH) Tissue - J. Turner

Stomach Flush

DESCRIPTIVE REMARKS:

no motorboat

#47

KT VALDEZ



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**SEA TURTLE TAGGING FORM**

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

NIGHT

5/2/07 Kapoho Champagne Pond  
PERSON RECORDING DATA: SK Hand/Shorkel

TUMOR SCORE

0

ORAL TMRS EXT: YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

470C7A7315  
470D115B66

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

41.4 cm

WIDTH:

34.2 cm

NOTCH LENGTH:

41.0 cm

DB:

2 L.O.

VB:

7 L.O.

CURVED CARAPACE LENGTH:

44.0 cm

WIDTH:

39.0 cm

HEAD WIDTH:

- cm

LATERAL 15.8 cm

POST LATERAL 10.2 cm

PPS: YES OR NO OR NE

N

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

6.5 cm

12.9 cm

4.0 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

- cm

PLASTRON LENGTH:

33.7 cm

Tissue (RH) DNA J. Turner

WEIGHT:

21.0 g

Stomach Plush

DESCRIPTIVE REMARKS:

#48

KT VALDEZ

1. small hole / scar on head  
no nototail



#49

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Champagne Pond NIGHT  
PERSON RECORDING DATA: SK Hand/Shorket

TUMOR SCORE

0

RA

ORAL TMS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

45234D1160  
470B4E6B15

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

54.0 cm

WIDTH: 43.3 cm

NOTCH LENGTH: 53.7 cm

DB: 0 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

59.0 cm

WIDTH: 52.0 cm

HEAD WIDTH: - cm

LATERAL 21.9 cm

POST LATERAL 13.6 cm

PPS: YES OR NO OR NE Y

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T 10.5 cm

19.2 cm 7.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH: 42.8 cm

WEIGHT: 46.4 #

TISSUE - DNA + J. Turne  
Stomach Flush KT  
VALDEF

DESCRIPTIVE REMARKS:

LH stump - amputated below femur - old injury  
2-4 left marginals missing; skin up to 1st left lateral (maybe congenital)  
no mototool



767

END  
KAPALO

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#50

4/23/07

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 5/3/07

CAPTURE DATE, LOCATION AND METHOD:

5/2/07 Kapoho Champagne Pond  
Wednesday SK Hand/Sharbel

NIGHT

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

LH 422F046E69  
RH 422E752F59

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

69.4 cm

WIDTH: 52.3 cm

NOTCH LENGTH: 68.7 cm

DB: 0 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

75.5 cm

WIDTH: 63.5 cm

HEAD WIDTH: - cm

LATERAL 26.2 cm

POST LATERAL 19.1 cm

PPS: YES OR NO OR NE

Y

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

UTRP

TAIL LENGTH: T 16.5 cm

23.9

C 10.5 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

54.2 cm

WEIGHT:

93.0 #

Stomach Flush

DESCRIPTIVE REMARKS:

no motobul

#50

Tissue - RT VALDEZ

RT VALDEZ



168

See p. 140

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2-10-08 Sunday SCOOP NET  
CHONG POND AREA  
PERSON RECORDING DATA: X

TUMOR SCORE

ORAL TMRS EXT:  
YES OR NO

EMACIATION CODE

OLD TAGS:

RH 45273 F 001 C RFL  
LH 45240 B 707 K LFL  
MK9  
TDR LAT 3  
0940942

NEW TAGS:


STRAIGHT CARAPACE - LENGTH:

67.3 cm

WIDTH:

53.2 cm

NOTCH LENGTH:

66.7 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

74.5 cm

WIDTH:

65.5 cm

HEAD WIDTH:

LATERAL

26.2 cm

POST LATERAL

17.9 cm

PPS: YES OR NO OR NE

MIDLATERAL

SEX: Male, Female or Undetermined

TAIL LENGTH: T

23.0

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

TDR  
DOWNLOADED

PLASTRON LENGTH:

WEIGHT:

91.9

DESCRIPTIVE REMARKS:

165

Rhind biopsy / sm  
lavage taken

Former "T" Motofool Barely  
visible after scraping  
algal scum

DN  
3rd  
ca. 100  
left



169

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FIRST  
Recapture

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

Scoop net

KAPOHO 2-10-08 C HONG  
SUNDY POND AREA

PERSON RECORDING DATA:

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

LH 435871235D  
RH 4351211273  
TDR MK 9 2nd  
Cat. Left

NEW TAGS:

RFL	
LFL	

STRAIGHT CARAPACE - LENGTH:

64.9 cm

NOTCH LENGTH:

64.7 cm

WIDTH:

53.6 cm

DB:

0

L.O.

VB:

0

L.O.

CURVED CARAPACE LENGTH:

— cm

WIDTH:

— cm

HEAD WIDTH:

— cm

LATERAL 27.5 cm

POST LATERAL

19.1 cm

PFS: YES OR NO OR NE

—

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T

— cm

24.6

C — cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

— cm

WEIGHT:

80.5 lb

DESCRIPTIVE REMARKS:

(L) HIND BIOPSY / LAVAGE TAKEN.



170  
48.5  
19.0  
39.5

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2-10-08 Scoop net  
SMALL WARM POND IN BACKYARD  
NEAR BLIND IN LOT

PERSON RECORDING DATA:

TUMOR SCORE

☐

ORAL TMRS EXT:  
YES OR NO

☐

EMACIATION CODE

☐

OLD TAGS:

4470A070775  
RH 470B2D5F77

NEW TAGS:

RFL  
LFL

STRAIGHT CARAPACE - LENGTH:

50.3 cm

NOTCH LENGTH:

40.8 cm  
50.0

CURVED CARAPACE LENGTH:

53.5 cm

HEAD WIDTH:

cm

PPS: YES OR NO OR NE

☐

TAIL LENGTH: T

cm

RIGHT FRONT FLIPPER WIDTH:

cm

PLASTRON LENGTH:

cm

WEIGHT:

39.5

DESCRIPTIVE REMARKS:

Chind biopsy/lavage

WIDTH:

40.8 cm

DB:

☐

L.O.

VB:

☐

L.O.

WIDTH:

48.9 cm

POST LATERAL

14.4 cm

SEX: Male, Female  
or Undetermined

☐

SAMPLES COLLECTED:



REV#

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## SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

**KAPOHO** **2-10-08** **CHONG**  
**Sunday** **POND**  
**AREA**

PERSON RECORDING DATA:

TUMOR SCORE

0

ORAL TMS EXT:  
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

470A155832

467D03394F

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

42.8 cm

WIDTH:

34.7 cm

NOTCH LENGTH:

41.9 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

46.0 cm

WIDTH:

39.5 cm

HEAD WIDTH:

— cm

LATERAL

18.8 cm

POST LATERAL

11.9 cm

FPS: YES OR NO OR NE

—

MIDLATERAL

SEX: Male, Female  
or Undetermined

0

TAIL LENGTH: T

— cm

15.6

C — cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

— cm

WEIGHT:

25.0 #

DESCRIPTIVE REMARKS:

① hind biopsy/lavage taken



172

FIGURE

70° 0'  
18.5

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

2-10-08

CAPTURE DATE, LOCATION AND METHOD:

Scoop net  
2-10-08

PERSON RECORDING DATA:

KAPOHO

CHONG POND AREA

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

LH 47071E0906  
RH 470C524611

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

54.2 cm

NOTCH LENGTH:

53.8 cm

WIDTH:

43.7 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

58.5 cm

HEAD WIDTH:

— cm

WIDTH:

53.0 cm

PPS: YES OR NO OR NE

—

WIDTH:

16.3 cm

TAIL LENGTH: T

— cm

MIDLATERAL

20.2

SEX: Male, Female  
or Undetermined

U

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

— cm

WEIGHT:

51.5 #

DESCRIPTIVE REMARKS:

Shard biopsy / lavage taken



69.0  
18.6

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173

6

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2-10-08 SCOP net SMALL WARM POND IN BACKYARD NEAR BLIND INLET

PERSON RECORDING DATA:

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

LM 4359317562

RM 424113561

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

52.8 cm

WIDTH:

42.9 cm

NOTCH LENGTH:

52.4 cm

DB:

Ø L.O.

VB:

Ø L.O.

CURVED CARAPACE LENGTH:

57.9 cm

WIDTH:

51.5 cm

HEAD WIDTH:

— cm

LATERAL

23.2 cm

POST LATERAL

16.5 cm

PPS: YES OR NO OR NE

—

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

— cm

21.0

C — cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

— cm

WEIGHT:

50.4 #

DESCRIPTIVE REMARKS:

① hind biopsy/lavage taken



174

115.0  
96.

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAROHU  
SCOOP net  
2-10-08  
CHONG POND AREA  
PERSON RECORDING DATA: GB

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

LH 422 FID 275 A  
RH 423 465 C 59

NEW TAGS:

RFL  
LFL

STRAIGHT CARAPACE - LENGTH:

66.5 cm

NOTCH LENGTH:

66.4 cm

WIDTH:

51.2 cm

DB:

φ L.O.

VB:

φ L.O.

CURVED CARAPACE LENGTH:

72 cm

HEAD WIDTH:

— cm

WIDTH:

62.5 cm

PPS: YES OR NO OR NE

—

LATERAL

27.6 cm

POST LATERAL  
19.1 cm

TAIL LENGTH: T

— cm

MIDLATERAL

25.5 cm

SEX: Male, Female  
or Undetermined

L

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

— cm

WEIGHT:

96.9

DESCRIPTIVE REMARKS:

hind biopsy/lavage to Ken



DAVID/BRIAN/Rice  
TATTOO

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SEA TURTLE TAGGING FORM

(175)  
56.5 P  
18.7

DATE FORM FILLED OUT 1/1

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2-10-08 SMALL  
WARM POND IN  
BACK YARD NEAR  
BLIND INLET

PERSON RECORDING DATA:

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

RA 467B413D78

RA 470D106444

NEW TAGS:

RFL	
LFL	

STRAIGHT CARAPACE - LENGTH:

48.9 cm

WIDTH: 37.3 cm

NOTCH LENGTH:

47.9 cm

DB: 0 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

54.0 cm

WIDTH: 46.0 cm

HEAD WIDTH:

— cm

LATERAL 21.0 cm

POST LATERAL 14.1 cm

PPS: YES OR NO OR NE

—

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T

— cm

18.6

C — cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

— cm

WEIGHT:

37.8 lbs

DESCRIPTIVE REMARKS:

(Blind biopsy / lavage sm.)



176

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88.0  
18.7

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHU 2-10-08 chong pond  
area

PERSON RECORDING DATA:

TUMOR SCORE

0

ORAL TMSR EXT  
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

RH 424F0D  
LH 424D0A5F52

NEW TAGS:

RFL  
LFL

\* STRAIGHT CARAPACE - LENGTH:

cm

\* NOTCH LENGTH:

cm

CURVED CARAPACE LENGTH:

HEAD WIDTH: — cm

FPS: YES OR NO OR NE —

TAIL LENGTH: T — cm

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH: — cm

WEIGHT: 69.3

DESCRIPTIVE REMARKS:

DB: 0 L.O.

WIDTH: — cm

VB: 0 L.O.

WIDTH: — cm

LATERAL 23.3 cm

POST LATERAL 17.9 cm

MIDLATERAL

22.1 cm

SEX: Male, Female  
or Undetermined

U

SAMPLES COLLECTED:

(R) hind biopsy / lavage taken



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177

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

1 / 1 Blind Inlet - hand capture

CAPTURE DATE, LOCATION AND METHOD:

KAPHO 2/11/08 Monday  
PERSON RECORDING DATA: Bagley BLIND INLET

\* TUMOR SCORE

0

ORAL TMS EXT:

YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

LH

45296B2F74

RH

4523063054

RH

4529200D06

\* NEW TAGS:

RFL

LFL

\* STRAIGHT CARAPACE - LENGTH:

66.8 cm

\* 50.4

WIDTH:

49.6 cm

\* NOTCH LENGTH:

66.8 cm

DB:

L.O.

VB:

L.O.

\* CURVED CARAPACE LENGTH:

71.5 cm

(3)

WIDTH:

61.5 cm

HEAD WIDTH:

cm

\* LATERAL

26.4 cm

\* POST LATERAL

19.2 cm

PPS: YES OR NO OR NE

cm

\* MID LATERAL

\* SEX: Male, Female  
or Undetermined

cm

TAIL LENGTH: T

cm

23.7

C

cm

RIGHT FRONT FLIPPER WIDTH:

cm

\* SAMPLES COLLECTED:

lavage - KT

PLASTRON LENGTH:

cm

biopsied - L hind - J. Turner

\* WEIGHT:

87.9 #

DESCRIPTIVE REMARKS:

notch between 10th + 11th L marginals  
and between 11th L marginal  
and L post central.



128

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT 1 / 1

CAPTURE DATE, LOCATION AND METHOD:

KAPOTTO 2/11/08 Monday  
PERSON RECORDING DATA: Kubo, Torin BLIND INLET

TUMOR SCORE

1

ORAL TMS EXT:

YES OR NO

NO

EMACIATION CODE

0

OLD TAGS:

4527336730  
4523063854

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

67.4 cm

WIDTH:

50.6 cm

NOTCH LENGTH:

67.1 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

70.730 cm

WIDTH:

65.0 cm

HEAD WIDTH:

cm

LATERAL

26.5 cm

POST LATERAL

20.6 cm

PPS: YES OR NO OR NE

cm

MIDLATERAL

SEX: Male, Female or Undetermined

cm

TAIL LENGTH: T

cm

24.8

C cm

RIGHT FRONT FLIPPER WIDTH:

cm

SAMPLES COLLECTED:

lavaged - KT

PLASTRON LENGTH:

cm

biopsied LH - J Turner

WEIGHT:

93.4 #

major pulling on posterior edge  
of scutes on 3rd L lateral

DESCRIPTIVE REMARKS:

#1 in posterior R eye - black + smooth



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SEA TURTLE TAGGING FORM

179

no tag 3

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2/11/08 Monday  
PERSON RECORDING DATA: Bagley BLIND INCEP

TUMOR SCORE

0

ORAL TMRS EXT:  
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

NEW TAGS:

470B366627  
470A204473

STRAIGHT CARAPACE - LENGTH:

49.8 cm

WIDTH:

40.6 cm

NOTCH LENGTH:

49.2 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

53.5 cm

WIDTH:

46.0 cm

HEAD WIDTH:

LATERAL

19.6 cm

POST LATERAL

13.6 cm

PPS: YES OR NO OR NE

MIDLATERAL

SEX: Male, Female  
or Undetermined

TAIL LENGTH: T

17.4

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

lavaged - KT

PLASTRON LENGTH:

biopsied RA - GB + genetics

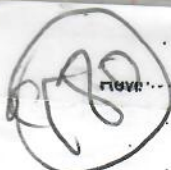
WEIGHT:

39.0 #

DESCRIPTIVE REMARKS:

amnesia in mouth





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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD: Blind Inlet - hand capture

KAPO HO 2/11/08 BLIND INLET

PERSON RECORDING DATA: Kubo, Torin

TUMOR SCORE  
0

ORAL TMRS EXT:  
YES OR NO  
-

EMACIATION CODE  
0

OLD TAGS:  
LH 45265B6E10  
RH 4529410A69

NEW TAGS:  
RFL  
LFL

STRAIGHT CARAPACE - LENGTH: 62.8 cm

NOTCH LENGTH: 4 cm

CURVED CARAPACE LENGTH: 68.0 cm

HEAD WIDTH: — cm

FPS: YES OR NO OR NE —

TAIL LENGTH: T — cm

RIGHT FRONT FLIPPER WIDTH: — cm

PLASTRON LENGTH: — cm

WEIGHT: 79.1 #

DESCRIPTIVE REMARKS:

DB: Ø L.O.

WIDTH: 50.8 cm

VB: Ø L.O.

WIDTH: 63.0 cm

LATERAL: 25.4 cm

POST LATERAL: 17.6 cm

MIDLATERAL

SEX: Male, Female or Undetermined

U

22.0 C — cm

SAMPLES COLLECTED:

lavaged - KT

biopsied LH - J Turner

large smooth indentation @ 4th + 5th L marginals (10 cm long x 2 cm deep)

\* R post central truncated

STABLE 1500



Tumors

RF-2, 1, 1, 1, 2

LF-2, 1

neck-2, 1, 1, 1

LWH-2 into

RWH-2 + hard nodule

Glotis-3 multilobed (sm 3)

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SEA TURTLE TAGGING FORM

FP

(181)

no tag

5

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2/11/88

PERSON RECORDING DATA:

Bassey

BLIND INLET

TUMOR SCORE

★

ORAL TUMORS EXT:

YES OR NO

EMACIATION CODE

★

OLD TAGS:


NEW TAGS:

470D131C75



RH

470B460069



\*ST\* 2nd R+b lateral

STRAIGHT CARAPACE - LENGTH:

66.4 cm

WIDTH: 57.0 cm

NOTCH LENGTH: 66.4 cm

DB:  L.O.

VB:  L.O.

CURVED CARAPACE LENGTH:

72.0 cm

WIDTH: 69.0 cm

HEAD WIDTH:  cm

LATERAL 24.1 cm

POST LATERAL 17.2 cm

PPS: YES OR NO OR NE

MIDLATERAL

SEX: Male, Female or Undetermined

TAIL LENGTH: T  cm

21.0 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

cm

PLASTRON LENGTH:  cm

RT side of plastron soft at margin.

WEIGHT: 86.9 #

biopsy RH - DVA

GB

J. Turner

STABLE

ISO TOPES

DESCRIPTIVE REMARKS:

lateral #1 22.3 (emaciation point)

#2 19.7 (emaciation point)

\* between 2 + 3 for emaciation code (GBB)

\*NO LAVAGE due to oral tumor

Tumors

Reye - 1 ant, 1 post

L eye - 1 ant, 1 post



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SEA TURTLE TAGGING FORM

No Tag

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAROTO 2/11/08  
PERSON RECORDING DATA: Kubo, Torin  
BLIND Inlet

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

NO

EMACIATION CODE

0

OLD TAGS:


NEW TAGS:

RFL	470B46171A
LFL	4709701836

STRAIGHT CARAPACE - LENGTH:

68.8 cm

WIDTH: 55.2 cm

NOTCH LENGTH: 68.2 cm

DB: L.O.

VB: L.O.

CURVED CARAPACE LENGTH:

74.0 cm

WIDTH: 67.5 cm

HEAD WIDTH: cm

LATERAL 25.7 cm

POST LATERAL 19.6 cm

PFS: YES OR NO OR NE

MIDLATERAL

SEX: Male, Female or Undetermined

TAIL LENGTH: T cm

23.3 cm

RIGHT FRONT FLIPPER WIDTH:

cm

PLASTRON LENGTH:

cm

WEIGHT:

97.0

SAMPLES COLLECTED:

lavaged - KT  
biopsied RH - PNA - GHB  
+ J. Turner  
STABLE  
ISOTOPES

DESCRIPTIVE REMARKS:

Small (1x1 cm) notch out of tip of RF



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SEA TURTLE TAGGING FORM

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DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2/11/08  
PERSON RECORDING DATA: Bagley BLIND INLET

TUMOR SCORE

ORAL TMRS EXT:  
YES OR NO

EMACIATION CODE

OLD TAGS:

NEW TAGS:

470C620E55



470A11783D



RH

LH

STRAIGHT CARAPACE - LENGTH:

47.2 cm

WIDTH:

37.4 cm

NOTCH LENGTH:

47.2 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

51.5 cm

WIDTH:

44.5 cm

HEAD WIDTH:

LATERAL 19.4 cm

POST LATERAL 13.7 cm

PPS: YES OR NO OR NE

MIDLATERAL

SEX: Male, Female  
or Undetermined

U

TAIL LENGTH: T

17.6 cm

C

RIGHT FRONT FLIPPER WIDTH:

cm

SAMPLES COLLECTED:

lavaged - KT

PLASTRON LENGTH:

cm

Biopsy LH DNA

J. Turner

STABLE

1500000

WEIGHT:

33.6 #

GB

DESCRIPTIVE REMARKS:



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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

Chong Pond - deep scarp net  
Area

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2/11/08

PERSON RECORDING DATA: Kubo, Torin

TUMOR SCORE

0

ORAL TMRS EXT: YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

422F0800280  
423 962421.4

NEW TAGS:

RFL  
LFL

STRAIGHT CARAPACE - LENGTH:

66.6 cm

WIDTH: 56.58.2 cm

NOTCH LENGTH: 66.5 cm

DB: 6 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

72.0 cm

WIDTH: 68.5 cm

HEAD WIDTH: - cm

LATERAL 26.2 cm

POST LATERAL 18.6 cm

PPS: YES OR NO OR NE -

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T - cm

23.1

- cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

lavaged. KT - very small samples

PLASTRON LENGTH: - cm

biopsied LH - J Turner  
STABLE - 150g spec

WEIGHT: 95.6 #

R femoral + R inframarginal  
ca 5 cm injury to bone

DESCRIPTIVE REMARKS:



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185

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO 2/11/08  
Chong Pond - scoop net  
Area

PERSON RECORDING DATA:

Bagley

TUMOR SCORE

0

ORAL TMRS EXT:

YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

424D2B355D

424F0F131C

NEW TAGS:

RFL

LFL

STRAIGHT CARAPACE - LENGTH:

61.3 cm

WIDTH:

46.4 cm

NOTCH LENGTH:

61.3 cm

DB:

0

L.O.

VB:

0

L.O.

CURVED CARAPACE LENGTH:

66.5 cm

WIDTH:

55.5 cm

HEAD WIDTH:

— cm

LATERAL

23.5 cm

POST

LATERAL

15.8 cm

PPS: YES OR NO OR NE

—

MIDLATERAL

SEX: Male, Female  
or Undetermined

✓

TAIL LENGTH: T

— cm

20.7

C — cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

lavaged - KT

PLASTRON LENGTH:

— cm

WEIGHT:

67.9 #

biopsied - RA - J Turner

STABLE ISOTOPE

pink spit sample taken for photo spec

DESCRIPTIVE REMARKS:



1986

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KAPOTHO VII  
CONTINUED  
NEXT DATA  
BOOK

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT

Chong Pond - scoop net  
AREA

CAPTURE DATE, LOCATION AND METHOD:

KAHOTO 2/11/08 Monday  
PERSON RECORDING DATA: Kubo, Torin

TUMOR SCORE

0

ORAL TMRS EXT: YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

LH 44526A6104  
RH 44396D5973

NEW TAGS:

RFL  
LFL

STRAIGHT CARAPACE - LENGTH:

66.2 cm

WIDTH: 53.2 cm

NOTCH LENGTH:

65.7 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

72.5 cm

WIDTH:

64.0 cm

HEAD WIDTH:

— cm

LATERAL

27.4 cm

POST LATERAL  
18.8 cm

PPS: YES OR NO OR NE

—

MIDLATERAL

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

— cm

24.4

C — cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

labeled - KT

PLASTRON LENGTH:

— cm

biopsied LH - J Turner

WEIGHT:

92.1 lbs

STABLE

ISOTOPES

DESCRIPTIVE REMARKS:



Monday  
7/11/08 / PARTICIPANTS

---

Caylin Kojima - 6<sup>th</sup> grade -

Madison Inman - 6<sup>th</sup> grade -

Gregory Gaylardi - 8<sup>th</sup> grade -

Kristiana Van Pernis - 6<sup>th</sup> grade -

Michelle Protinard - 7<sup>th</sup> grade -

Bhille Lucioni 7<sup>th</sup> grade -

WICK CHOCK - 8<sup>th</sup> GRADE -

Mimei Pakahara - 8<sup>th</sup> grade -

Sung sik - 6<sup>th</sup> grade -

Torin Kubo - 8<sup>th</sup> grade -

Dean Bagley  
STACY KUBIS





## OCEAN WATCH

*Susan Scott*

### Mangrove seeds bring back memories

**M**OST Hawaii residents think of mangroves only as alien species that need to be exterminated. But last week when I found hundreds of mangrove seeds washed up on Kailua Beach, they brought back fond memories.

While visiting northeastern Australia, I saw dozens of islands and estuaries with dense, towering jungles growing right up to their waterlines. When I got closer, I discovered these trees had created their own waterlines and their own dirt, too. They were enormous mangrove forests.

Mangroves seem like marine plants, because they live in sea water, which, at 3 percent salt, kills land plants. But mangroves don't use the salt; they just cope with it well.

Some mangrove species called excreters have a gland on each leaf that collects internal salt. When the leaf drops, the salt goes, too. The fallen leaves also provide food for some of the marine animals that live among the roots below.

Other mangrove types called excluders don't deal with salt in their systems at all. Membranes on their root surfaces let water in but keep salt out. These mangroves have only fresh water inside.

Mangroves are native to many of the world's tropical coastlines but not Hawaii. The American Sugar Co., however, imported mangroves here from Florida in 1902, planting them in Molokai's mud flats to stabilize the soil. The seeds from those trees drifted downwind, and by the 1920s, small mangrove trees of this species were growing in Kaneohe Bay.

People later brought other species of mangroves to Hawaii. One arrived from the Caribbean in 1910, and another came from the Philippines in 1922 in a parcel of 14,000 seedlings. This batch went into Oahu's saltwater marshes and is now the type that dominates Kaneohe Bay.

Mangrove trees are widespread around the world because their seeds keep their power to reproduce after floating for weeks in salt water. Shaped like fat fountain pens with one end weighted, these green and brown seeds bob upright in the water.

The term mangrove refers to about 100 species. The scientific name of the most common kind in Hawaii, the red mangrove, is *mangle*, but the original common name for this species was *mangro*. Now most people call them all mangroves.

Mangroves can stand tall in soft mud because their trunks send out above-water roots that act like tripods, stabilizing the tree. As the roots multiply and tangle, they trap sediment. In that way the tree creates more ground in which to expand.

These masses of roots also make underwater forests that attract marine animals, such as young fish, which use them as protective nurseries. One book I have lists 92 species of fish found in mangrove habitats, not to mention countless invertebrates.



I always considered mangroves unwelcome guests in Hawaii. They clog wetland areas crucial to the survival of some native plants and animals, and also interfere with the life cycles of coastal fish that depend on shallow, open bays for survival.

But after seeing this plant in its native habitat, I now appreciate its beauty and usefulness.

In the past, I ignored the cigar-like mangrove seeds lying on Hawaii beaches. Now they remind me of tall trees dipping their toes in the ocean while creating fabulous forests above and below the water. It's a memory I cherish.

---

*Susan Scott can be reached  
at [www.susanscott.net](http://www.susanscott.net).*



# Council to hear Punaluu remarks

More input from  
public needed on  
volatile land buy

By JASON ARMSTRONG  
Tribune-Herald staff writer

A growing battle over Punaluu's future has lawmakers wanting to gather more public comments before deciding between development and preserving the area's black sand beach.

"To me, this is a critical issue — very critical, and I don't want to make a mistake," Puna Councilwoman Emily Naeole said Tuesday.

She and other members of the County Council's Finance Committee then voted unanimously to defer a proposal calling for the county to explore buying 150 acres along the historic shoreline.

The postponement was so council members can hear from as many people as possible.

"I want to see the public come out to this public hearing," said council Chairman Pete Hoffmann of Kohala.

"We need to see both sides of this," added Hilo Councilman Stacy Higa.

The hearing date and location will be determined later, announced Finance Committee Chairman Dominic Yagong of Hamakua.

More than 35 people testified before lawmakers on the proposal to explore buying Punaluu Beach Park, Ninole Pond and adjacent lands extending about 2,000 feet inland.

The county leases the park from landowner SM Investment Partners, which hopes to build 1,500 homes, a 300-room hotel, stores and cultural center on its 434 acres.

"A development of this size is

See LAND BUY Page A7



## LAND BUY

From front page

going to do a lot of harm," said Ka'u Councilman Bob Jacobson. He wants to the county to look into buying the land, estimating the purchase could cost about \$6 million.

Preserving the area is "critical for the surrounding community, area residents and the Native Hawaiian community, as well as to preserve endangered species habitat and pristine ocean water quality," states his nonbinding resolution.

But some area residents would rather have the jobs and economic opportunities that would come with expanding and renovating the existing Sea Mountain resort.

"What do we have for our people?" asked 30-year resident Debra Wong Yuen. "There really is nothing. We need more for our community. We need jobs."

Others said the county doesn't have to buy the land because the owner is willing to donate 56 acres of shoreline property. That offer could not be verified Tuesday, however.

"Punaluu is different," Dan Schuck said. "It has a history of development. It needs to be redeveloped."

Those backing Jacobson's resolution countered that Ka'u does have something, namely, a unique stretch of beach that

for generations has provided everything from food and recreation to endangered species habitat.

"I would urge you to do everything in your power to preserve Punaluu," Richard Esparza said.

Danny Miller presented the signatures of more than 4,000 people wanting the area kept for public use. He's with the nonprofit group Ka'u Preservation Inc., which Jacobson wants to manage the area.

Miller said he envisions a "living classroom."

"We don't see putting a lot of buildings or huge concrete structures," he said. "We want to keep it in its natural state. It would be light on the land, so we protect the natural integrity."

But having one group oversee the area generated concern among some of the speakers who appeared before lawmakers Tuesday. And several council members said they have mixed feelings about Jacobson's proposal and the landowner's intentions.

"To me, it's tearing me apart," Naeole said.

She later was moved to stand and start chanting in Hawaiian.

Jason Armstrong can be reached at [jarmstrong@hawaiitribune-herald.com](mailto:jarmstrong@hawaiitribune-herald.com).



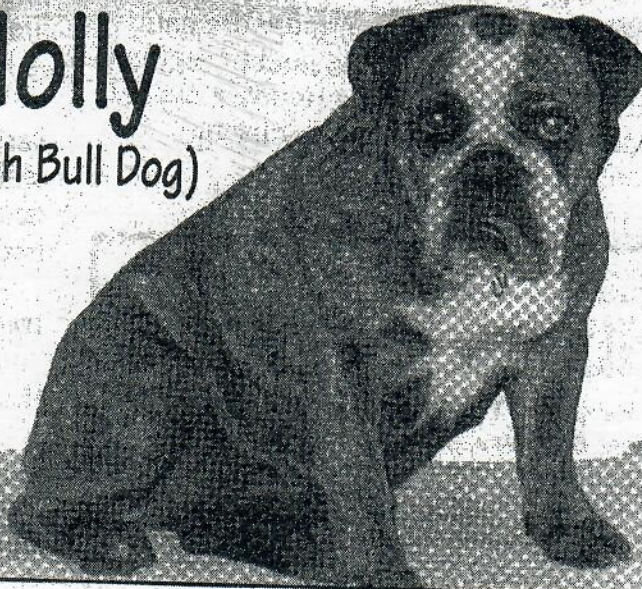
# LOST DOG!

Kapoho Beach Lots

## REWARD!

### Molly

(English Bull Dog)



Call Bill Stearns 965-8473







**\*\*Recent sea turtle research at Kapoho Beach Lots in the Puna District of the Island of Hawaii\*\***

From September 21-26, 2006 the NOAA/Hawaii Preparatory Academy Team safely captured 60 turtles (green turtles- honu) at Kapoho Beach Lots for long term biological and ecological research. The turtles' sizes ranged from 20 lb juveniles to full size (200 lb+) adult males and females. This was our tenth study trip to Kapoho, ranging from 1-7 days in duration. The leaders of the Team were George Balazs (NOAA) and Marc Rice (HPA).

Happily, only three turtles were found to have fibropapilloma tumors. The case severities of these animals were low. The tumor disease at Kapoho over the past 5 years is clearly declining, though it may never die out altogether. A virus specific to sea turtles that does not transmit to humans (nor visa versa) is associated with the turtle tumors, but as yet unknown co-factors may be involved in the manifestation of the disease. The tumor disease (known as fibropapillomatosis) is also declining in prevalence and case severity elsewhere in the Hawaiian Islands where we conduct studies.

Two of the 60 turtles we captured were successfully treated for fishing hook/line entanglement (i.e. safe removal of hook and line disentanglement). About half of the turtles we captured were at the south end of Kapoho Beach Lots, and the other half were at the north end (in the vicinity of Champaign Pond). Previously tagged turtles that were recaptured showed excellent rates of growth and superior "plump" body condition compared to many of our other study sites throughout the Hawaiian Islands.

Small dive recorders were harmlessly glued to the shells of two of the 60 turtles. For the next 6 months (until our next visit) the depth of dive, time at depth, and seawater temperature will be recorded and stored once a minute within these computerized units. When the turtles are recaptured by us the entire diving history will be downloaded and studied. The word "research" appears with white paint in small lettering on the shell of each of these two turtles. Hopefully this will let folks know that the dive recorders are not 'marine debris' or other unwanted objects accidentally fouled on the turtles. The other 58 turtles had vertical lines or a small alpha/numeric numbers painted on the shell to allow future tagged/untagged census counts, and to aid us in not catching the same turtle twice over our 6-day study period. All turtles captured at Kapoho receive permanent microchips for long term individual recognition- the same as the "chips" used commonly by veterinarians these days for dogs, cats and other domestic pets. The ID numbers of the microchips are read using a special reader held within a few inches of the animal.

Small samples of the dietary contents were safely collected from the esophagus of 45 of the 60 turtles. As expected, seaweeds (limu) were the main food items. A comprehensive identification of the species composition of the seaweeds will be conducted by Dr. Karla McDermid of the University of Hawaii at Hilo.

Our work at Kapoho this time was significantly supplemented by University of Hawaii researcher Dr. Jason Turner and his trained students conducting methodical underwater



bottom transects of marine flora and fauna in those areas where turtles are known to feed. This work will be continuing along with our own at seasonal intervals.

If anyone has questions or would like to provide information about sea turtle sightings at Kapoho I would welcome hearing from them. Please write (email or letter or fax) to the addresses below.

With Aloha, George Balazs

\*\*\*Please Show Turtles Aloha- Enjoy watching them, but Always Treat them with Respect by not chasing, riding, handling, approaching close, or disturbing them\*\*\*

George H. Balazs, Leader  
Marine Turtle Research Program  
NOAA, National Marine Fisheries Service  
Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, Hawaii 96822-2396 USA  
Tel:(808) 983-5733  
Fax:(808) 983-2902  
gbalazs@honlab.nmfs.hawaii.edu

Date: Thu, 29 Apr 2004 20:42:46 -1000  
From: jo mitchel <popojo@prodigy.net>  
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Re: "Kukini" and "Hoku" two young honu released at sea off the  
Mauna Lani Resort Turtle Independence Day July 4,  
2003- 270 days ago-- Mapping update as of April 1, 2004 (fwd)

*Reduce*

HI George, Just to let you know the property across from my house has been sold. I have not met the couple who other neighbors say are in their 70's. I did swim over and saw a "No Trespassing sign" on my favorite resting place ( I call my Blue Grotto") But the man was not there. I talked to the work men who have busy sawing down trees in preparation for building the home there. I did want to tell him about the honus that come in. One thing if they live there there won't be other people coming in and throwing net & catching all the fishes, & harming the honus. Maybe when you come you can talk w/ him too, if we can find him. All is well here, aloha,jo

George H. Balazs wrote:

- > Here is the mapping update for the two honu still sending satellite
- > signals to us 270 days after release. Hoku is just down the coast in
- > the vicinity of Puako. Kukini is also, but, had first traveled up and
- > then down the Kohala Coast to the area just north of Hilo (Honumu I
- > believe). Then decided there's no place better than home and swam all
- > the way back to Puako! One can only wonder what thoughts go through the
- > honu's mind when they do something amazing like this!
- >
- > If you hear of anyone spotting these turtles please give me a call
- > (286-2899) or send an email with the person's phone number so I can call
- > them. Best Regards, George
- >



Recent sea turtle research at Kapoho Beach Lot, in the Puna District of the Island of

**Keri Kimura**

keri.m.kimura@erac.com  
808-934-0359 tel  
808-934-0535 fax  
800-736-8222 toll free



875 Kanoehua Ave.  
Hilo, HI 96720  
enterprise.com

**Notes:**

005109

05/04/2007





## TABLES OF MEASURE

### Dry Measure

2 pints (pt.)	=	1 quart (qt.)
8 quarts	=	1 peck (pk.)
4 pecks	=	1 bushel (bu.)
1 cord	=	128 cu. ft.

### Linear Measure

12 inches	=	1 foot
3 feet	=	1 yard
16½ ft. (5½ yds.)	=	1 rod
660 feet	=	1 furlong
320 rods (5280 ft.)	=	1 mile

### Liquid Measure

4 gills (gi.)	=	1 pint (pt.)
2 pints	=	1 quart (qt.)
4 quarts	=	1 gallon (gal.)
31½ gallons	=	1 barrel (bbl.)
2 barrels	=	1 hogshead (hhd.)

### Cubic Measure

1728 cubic inches	=	1 cu. foot
27 cubic feet	=	1 cu. yard
128 cubic feet	=	1 cord of wood
	or	1 perch of stone

### Surface Measure

144 sq. in.	=	1 sq. ft.
9 sq. ft.	=	1 sq. yd.
30¼ sq. yds.	=	1 sq. rod
160 sq. rods	=	1 acre

NOTE - A cord of wood is a pile 8 feet long, 4 feet wide and 4 feet high.  
A perch of stone or brick is 16½ feet long, 1½ feet wide and 1 foot high.

## MULTIPLICATION TABLE

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

## METRIC CONVERSION TABLE

U.S. DEPARTMENT OF COMMERCE METRIC CONVERSION CARD				
National Bureau of Standards Washington, DC 20234			Approximate Conversion to Metric Measures	
SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
<b>LENGTH</b>				
in	inches	25.00	millimeters	mm
in	inches	2.54	centimeters	cm
ft	feet	30.00	centimeters	cm
yd	yards	0.90	meters	m
mi	miles	1.60	kilometers	km
<b>AREA</b>				
in²	square inches	6.50	square centimeters	cm²
ft²	square feet	0.09	square meters	m²
yd²	square yards	0.80	square meters	m²
mi²	square miles	2.60	square kilometers	km²
	acres	0.40	hectares	ha
<b>TEMPERATURE (exact)</b>				
°F	Fahrenheit temperature (after subtracting 32)	0.555	Celsius temperature	°C
<b>VOLUME</b>				
tsp	teaspoon	5.00	milliliters	ml
Tbsp	tablespoon	15.00	milliliters	ml
fl. oz.	fluid ounces	30.00	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quart	0.95	liters	l
gal	gallons	3.80	liters	l
ft³	cubic feet	0.03	cubic meters	m³
yd³	cubic yards	0.76	cubic meters	m³
<b>MASS</b>				
oz	ounces	28.00	grams	g
lb	pounds	0.45	kilograms	kg
	short tons	0.09	tonnes	t

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### GROWTH

Excellent  $>3.0$  cm/yr

Good 2.0-3.0 " "

Poor  $<2.0$  " "

Super-poor  $<1.0$  " "