

3 of 3

Mead 1991-92
COMPOSITION
BALAZS - KIHOLO #124 - 4/19/91
PUAKO #13 #14
KEAWANUI
wide ruled
100 sheets • (200 pages)
9¾ x 7½ in / 24.7 x 19.0 cm
WH6BLQ
George H. Balazs
992-A Awaawanoa Place
Honolulu, Hawaii 96825
09910 © The Mead Corporation, Dayton, Ohio 45463



3

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

18 MARCH 92 Keawanaui 1:15 pm

PERSON RECORDING DATA: Kath Hannah HAND SWORKEL

OLD TAGS: []
TUMOR SCORE [0]

NEW TAGS: RFL H-157
LFL H-158

OTHER NEW TAGS: LH H-159

STRAIGHT CARAPACE-LENGTH: 44.0

WIDTH: 34.6

NOTCH LENGTH: 43.8

CURVED CARAPACE LENGTH: 46.5

WIDTH: 40.5

HEAD WIDTH: 7.0

SEX: MALE, FEMALE OR UNDETERMINED U

TAIL LENGTH: T 8.5

C 5.5

RIGHT FRONT FLIPPER WIDTH: 7.9

SAMPLES COLLECTED:

PLASTRON LENGTH: 36.0

WEIGHT: 28.0

DESCRIPTIVE REMARKS: PCA

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SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD:

18 MARCH 92 1:30pm
KEAWA NUI

Hard Snorkel

PERSON RECORDING DATA:

Kath Hannah

OLD TAGS:

Empty boxes for old tags

NEW TAGS: RFL

Empty box for RFL tag

LFL

H-160

TUMOR SCORE

0

OTHER NEW TAGS:

LH H-161

RH H-162

STRAIGHT CARAPACE-LENGTH:

60.0

WIDTH:

46.5

NOTCH LENGTH:

60.0

CURVED CARAPACE LENGTH:

64

WIDTH:

55

HEAD WIDTH:

9.3

SEX: MALE, FEMALE OR UNDETERMINED

U

TAIL LENGTH: T

13

C

9

Left
RIGHT FRONT FLIPPER WIDTH:

9.9

SAMPLES COLLECTED:

Empty box for samples collected

PLASTRON LENGTH:

47.0

WEIGHT:

59 lbs

Empty boxes for plastron and weight measurements

DESCRIPTIVE REMARKS:

Completely amputated RFF, healed.
Photo by G. WATSON OF M. RICE, G. BALAZS
AND TURTLE.

5 END

SEA TURTLE TAGGING FORM

CAPTURE DATE, LOCATION AND METHOD: HAND SNORKEL

CAPTURED TURTLE: 3-18-92 Kalahoi puāa pond

PERSON RECORDING DATA: Kath Hannula - Maunaloa Lani Hotel

OLD TAGS: RFL 10551
LFL 10552
L3-4 10553
TUMOR SCORE: 0

NEW TAGS: RFL
LFL
OTHER NEW TAGS: RH H-163

30/6/88/ 66.6
STRAIGHT CARAPACE-LENGTH: 66.9

WIDTH: 51.8

NOTCH LENGTH: 66.7 71.0

CURVED CARAPACE LENGTH: 71.0

WIDTH: 65.0

HEAD WIDTH: 9.5

SEX: MALE, FEMALE OR UNDETERMINED
mature M

TAIL LENGTH: T 27.5

C 18.0

RIGHT FRONT FLIPPER WIDTH: 11.5

SAMPLES COLLECT

PLASTRON LENGTH: 55.2

104
WEIGHT: 100 lbs

DESCRIPTIVE REMARKS: SKINNY tail. OSCAR, POND CARETAKER, SA 3 TURTLES KEF

PONDS CLEAN OF ALGAE

PT KIHOLELO #14

SEA TURTLE TAGGING FORM

ISLAND OF HAWAII (1)

CAPTURE DATE, LOCATION AND METHOD:

4-21-92 9:30-10:30 pm KIHOLELO

PERSON RECORDING DATA: Kristen GLASBY HAND SNORKEL

OLD TAGS: []
TUMOR SCORE: [0]

NEW TAGS: RFL [H-205]
LFL [H-206]

OTHER NEW TAGS: [RH-H-207]

STRAIGHT CARAPACE-LENGTH: [65.3]

WIDTH: [52.8]

NOTCH LENGTH: [65.3]

CURVED CARAPACE LENGTH: [69.0]

WIDTH: [64.0]

HEAD WIDTH: []

SEX: MALE, FEMALE OR UNDETERMINED [U]

TAIL LENGTH: T [13.]

c [8]

RIGHT FRONT FLIPPER WIDTH: []

SAMPLES COLLECTED: []

PLASTRON LENGTH: [51.8]

WEIGHT: [90]

DESCRIPTIVE REMARKS:

MOGGED

CAPTURE DATE, LOCATION AND METHOD:

4/21/92 Kiholo Hand-snorkel
PERSON RECORDING DATA: Kristen 930-1030pm

OLD TAGS:
TUMOR SCORE
0

NEW TAGS: RFL H-208
LFL H-209
OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH: 40.3 WIDTH: 33.6

NOTCH LENGTH: 39.8

CURVED CARAPACE LENGTH: 42.0 WIDTH: 40.0

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED
NP

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH: 31.6
WEIGHT: 20

DESCRIPTIVE REMARKS:

Left hind flipper is abraded and bloody

Kiholo #14 SEA TURTLE TAGGING FORM *in WOODS* (3)

CAPTURE DATE, LOCATION AND METHOD:

4/24/92	Kiholo	hand snare
PERSON RECORDING DATA: UZ		

OLD TAGS:

NEW TAGS:

RFL

H-210

LFL

H-210

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

37.9

WIDTH:

31.7

NOTCH LENGTH:

37.1

CURVED CARAPACE LENGTH:

40.0

WIDTH:

30.5

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

NA

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

30.2

WEIGHT:

18

DESCRIPTIVE REMARKS:



④ Kiholo #14 SEA TURTLE TAGGING FORM

LOGGED

CAPTURE DATE, LOCATION AND METHOD:

4/21/92	Kiholo	9:30-10:30 pm
PERSON RECORDING DATA: uz		hand snarked

OLD TAGS:		NEW TAGS: RFL	H-212
TUMOR SCORE		LFL	H-213
0		OTHER NEW TAGS:	

STRAIGHT CARAPACE-LENGTH: 37.1 WIDTH: 30.2

NOTCH LENGTH: 36.6

CURVED CARAPACE LENGTH: 38.5 WIDTH: 35

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED NP

TAIL LENGTH: T C

RIGHT FRONT FLIPPER WIDTH: SAMPLES COLLECTED:

PLASTRON LENGTH: 30.3

WEIGHT: 16

DESCRIPTIVE REMARKS:
lots of green skin algae

Kiholo #14

SEA TURTLE TAGGING FORM

logged 5

CAPTURE DATE, LOCATION AND METHOD:

4/21/92

Kiholo

PERSON RECORDING DATA:

liz

net

OLD TAGS:

RFL N-719

LFL N-720

TUMOR SCORE

0

NEW TAGS: RFL

LFL

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

40.5

WIDTH:

32.8

NOTCH LENGTH:

30.9

CURVED CARAPACE LENGTH:

43.5

WIDTH:

39

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

NP

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

32.4

WEIGHT:

21

DESCRIPTIVE REMARKS:

Kiholo #14

SEA TURTLE TAGGING FORM

6

ALOGGED w

CAPTURE DATE, LOCATION AND METHOD:

4/21/92 Kiholo 930-1030pm hand snorkel

PERSON RECORDING DATA: WZ

OLD TAGS:

NEW TAGS:

RFL

H-214

LFL

H-215

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

37.5

WIDTH:

31.4

NOTCH LENGTH:

37.1

CURVED CARAPACE LENGTH:

39.5

WIDTH:

36.0

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

NP

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

29.0

WEIGHT:

15.5

DESCRIPTIVE REMARKS:

new recruit

7

SEA TURTLE TAGGING FORM

Kiholo #14
MOGGSON

CAPTURE DATE, LOCATION AND METHOD:

4/21/92	Kiholo	
PERSON RECORDING DATA: Liz		net

OLD TAGS:

H-46 LFL
H-47 RFL

NEW TAGS:

RFL
LFL

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

39.6

WIDTH:

32.5

NOTCH LENGTH:

39.4

CURVED CARAPACE LENGTH:

43.0

WIDTH:

37.5

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

NP

TAIL LENGTH:

T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

31.9

WEIGHT:

22

DESCRIPTIVE REMARKS:

Kiholo #14

SEA TURTLE TAGGING FORM

NLOGGED (8)

CAPTURE DATE, LOCATION AND METHOD:

4/21/92

Kiholo

9:30-10:30 pm

PERSON RECORDING DATA:

Liz

hand snaked

OLD TAGS:

NEW TAGS:

RFL

H-216

LFL

H-217

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

37.7

WIDTH:

31.0

NOTCH LENGTH:

37.4

CURVED CARAPACE LENGTH:

40.0

WIDTH:

35.5

HEAD WIDTH:

--

SEX: MALE, FEMALE OR UNDETERMINED

NP

TAIL LENGTH: T

--

C

--

RIGHT FRONT FLIPPER WIDTH:

--

SAMPLES COLLECTED:

PLASTRON LENGTH:

30.0

--

WEIGHT:

15

--

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DESCRIPTIVE REMARKS:

new recruit ("chocolate turtle")

SEA TURTLE TAGGING FORM

NEOGEON 9

CAPTURE DATE, LOCATION AND METHOD:

Kohoko #14

4/21/92	Kiholo	930-1030 pm
PERSON RECORDING DATA: LIZ		hand snorkel

OLD TAGS:

NEW TAGS: RFL

H-218

LFL

H-219

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

39.4

WIDTH:

32.7

NOTCH LENGTH:

38.9

CURVED CARAPACE LENGTH:

41.5

WIDTH:

38.0

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

NP

TAIL LENGTH: T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

31.6

WEIGHT:

19

DESCRIPTIVE REMARKS:

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SEA TURTLE TAGGING FORM

Kiholo #14

WLOGG602

CAPTURE DATE, LOCATION AND METHOD:

4/21/92 Kiholo 930-1030 pm
 PERSON RECORDING DATA: LIZ hand snake

OLD TAGS: []
 []
 TUMOR SCORE [0]

NEW TAGS: RFL [H-220]
 LFL [H-221]
 OTHER NEW TAGS: []
 []

STRAIGHT CARAPACE-LENGTH: [41.1]
 [~~43.5~~]

WIDTH: [33.4]

NOTCH LENGTH: [40.6]

CURVED CARAPACE LENGTH: [43.5]

WIDTH: [39.5]

HEAD WIDTH: []

SEX: MALE, FEMALE OR UNDETERMINED [NP]

TAIL LENGTH: T [] C []

RIGHT FRONT FLIPPER WIDTH: []

SAMPLES COLLECTED:

PLASTRON LENGTH: [32.9] [] []

WEIGHT: [21.5] [] [] []

DESCRIPTIVE REMARKS:



(11)

SEA TURTLE TAGGING FORM

Kiholo #14

CAPTURE DATE, LOCATION AND METHOD:

Go to next DATA BOOK

4/21/92

Kiholo

930-1030 pm

hand
snorkel

PERSON RECORDING DATA:

L12

OLD TAGS:

LFL H-30
RFL H-31

NEW TAGS:

RFL

LFL

TUMOR SCORE

0

OTHER NEW TAGS:

STRAIGHT CARAPACE-LENGTH:

39.6

WIDTH:

32.0

NOTCH LENGTH:

38.9

CURVED CARAPACE LENGTH:

42.0

WIDTH:

37

HEAD WIDTH:

SEX: MALE, FEMALE OR UNDETERMINED

NP

TAIL LENGTH:

T

C

RIGHT FRONT FLIPPER WIDTH:

SAMPLES COLLECTED:

PLASTRON LENGTH:

32.0

WEIGHT:

21

DESCRIPTIVE REMARKS:



Los Olivos Clinic
2432 Railway Ave., Suite # 5
Los Olivos, CA 93441

Reatha Hauser
Licensed Clinical Social Worker
Academy of Certified Social Workers

Lic. 7852

479-58-6043

Y708 SL = 41.2 cm
Y709 22 lbs.

H66 1/14/92

HAND CAPTURE
HPA
KITULO #13

805 929-1491

Don & Reatha DeGroot
1381 LA LOMA DR
MILPITAS, CA 95044

4-1-92

Dear HEMB:

Found dead turtle with tag X708 on left front fin
H-66 on left rear fin.

Found 3-26-92, in, we believe, what is called Turtle Bay, on the Kona side of the Big Island. It is the Bay just about 200 yds north of the big mansion we understand was built by the fellow who developed the Leao's pure water.

Limbs & neck were supple, no external injuries visible. some seepage of ^{3rd} body fluids between ^{3rd} belly plates. Turtle was on irregular lava rocks. We don't see how it could have maneuvered itself to that spot. Surge conditions had not been bad that week. Possibly someone was carrying turtle & dropped it, & quit effort of moving it & it died of heat? Internal injuries? Sincerely, Don & Reatha

7 Oct 91

Go AKOHA FL 88

6:40am

Return FL ~~485~~ 117

6:15pm

350 VIA MAUI

Budget \$15.99

7477974

Danny Home 325-7946
AKOHA

(Kona Palisades, TO KA'IMI NANI 2 miles
RIGHT ANA ANA ST. RIGHT
73-439 PAIAHA (2nd driveway left).

10/7/91 Monday Depart FL 88 6:40am for Kona
with 200' x 10' net - TO

10 AM Met MARC RICE and 13 students.
Set net from 2 tubes for
floats, one for lead line.

(near low tide)

Worked well. Used a
30' piece of line on each end
to tie to the rocks.

One, maybe 2, turtle heads
seen inside the bay when
we arrived. None seen
inside after net was set.

At 10:30am a 7lb turtle
caught coming from outside.

10/7/91 of the net. No other turtles
seen anywhere in the area
thereafter. Tide rising to max. of
1.5' at ~ 3pm. No explanation for
absence of turtles, as Danny
reports seeing many during the
past few days. No turtles
feeding by sea wall to the south
of Sand beach where Danny
often notes them. Net taken out
at 2pm (4 hours fishing total). At
about the same time, Danny saw
2 turtles close together a short
distance off cement walkway by pond.
A third one arrived - all close together.
Walking out to them w/ throw net
resulted in one (or more) of the
fleeing seaward with great speed.
Why the great fear? Have
recent poaching attempts happened
to elicit this reaction?
Had about 45 min. observation
after net removed - but no
turtles came into the bay.
Depart bora 3:50 pm VMA Mail

Need - ✓ photo copied 3/91 kiholo #12:?

see - DLNR Annual Report - Kiholos? - TDPS

Difference of sealing cardboard
and sealing on turtle?

✓ Need Recalculate kiholo 12# (Peterson) + #13

- include kiholo & Keawann mortalities

- Contact Leilani Hino - Chapman mortality

✓ - "Tortuga Lova" - to Lova article

✓ - Data on Grevin

✓ - More metal signs - Kiholo Pt: HWD prop.;
Kahaluu Peninsula Palm trees, Predicted for LAG BOLTS

- Larger net.

#13 13-15 JAN. 92
Ki Holo FL 90 Aoba 10:55 am Depart

13 JAN 92 Arrive Kiholo 2pm - new garage
Monday and lock on gate at 4:15pm.

Carly
Chris
Mike

Copras, Marc, George Watson, Dave,
and Cathy Rice. Group #1 students
for Day 1.

125' net in water at 4pm.

At 4:50pm, 3 turtles hit the net at
and off their uss out.

at 6pm sunset

Net out at 4:15pm (4pm), after
catching 30 turtles.

Night snorkel 9-10pm -
8 captures - several others seen,

Netting
3.5
hours

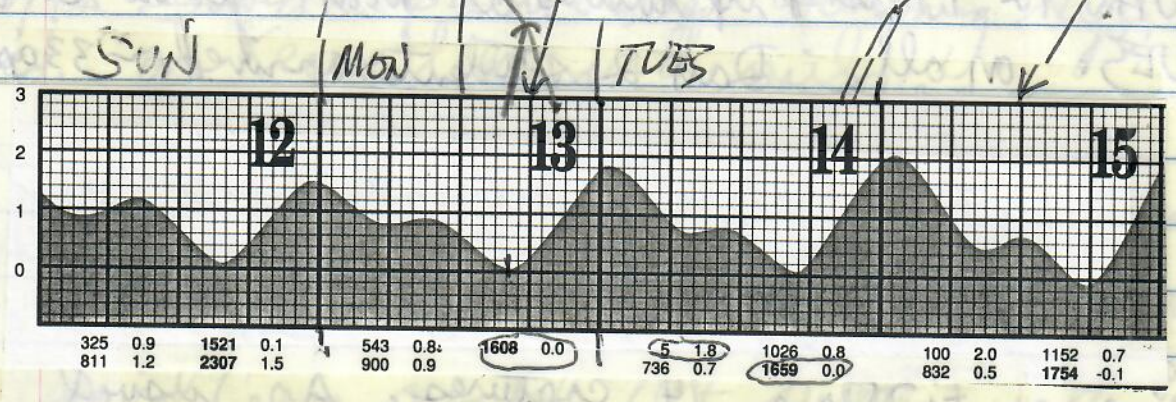
Captures made right up until 8pm when we
took out the net.

Snorkeled with students rotated
up front. Turbid - difficult visibility
due to rising tide (1.8' at
midnite).

Students will rotate to HPA, Day 1
and Day 2.

1/14/92 TUES. 7:30 AM - Start working
up turtles - finished at noon!

SUNSET = 6 PM 30 Turtles, net 125 net 4-7 PM
 13-15 JANUARY 1992
 4 HOURS NETTING
 NOON 6 PM 9-10 PM SNORKEL (11 CAPTURE)



1/13 SNORKEL 9-10 PM (1 hour) 8 captured, perhaps 5 seen & missed
 30 NETTING =
 1/13 38 TOTAL (27 ^{resite} old, 11 new (28.9%))
 MON.

Gate at top of road closed but not locked. Sign says gate could be locked at any time. Surfers hike to Kaholo with board - surf up. Also campers from Kamehaha - to point. STAYED ONE NIGHT
 More people hiking and diving down.
 11 SNORKEL (10 green + 1 Hawksbill) 14 NET

1/14/92 25 TOTAL (14 ^{resite} old Greens, 10 new (9%) + 1 old Hawksbill)
 TUES.
 Greens =
 62 (41 Resighted, 21 new (9%))
 Hawksbill =
 1 (RECAPTURE)

14 JAN 92 Finished up turtles at room - yellow ^{point} streak
TUES. on all. Day 2 students arrived ~ 330pm while I was asleep for 1.5 hours.

1/13 was beautiful weather conditions - not blowing at netting site, nor during snorkel.

Net reset across at 4pm. Out at 7:30pm. 14 captures. As usual, most captures were near, at and after sunset.

Need to block off entire entrance (to sand flat) to see how many turtles are getting around the net.

Snorkel conducted 9 - 10 pm. 11 caught, which includes the hawkbill. Nearly all that were seen were captured.

3 green turtles were caught on Peninsula side while swimming back to campsite. Strobe used very effectively.

Strong wind and rain that night.

Some rain in the morning while working up turtles - we moved into turtle pen.

By noon, weather had cleared and

Jim was out. Snorched last nite on Maunakea and Haleakalaua Main

3.5 Hours

Tractor
"RAW WHITE"
Stake AT ~ 9pm
on Peninsula

MACE-

1/15/92
Wed.

photos

HEAD OF "UPPER SCHOOL" VISITED

Very large swells this am. But turtles still seen feeding in bay.

1/15/92 David Copra installed "Warning" signs wed. on Keawe tree with nails.

Depart Kiholo ~ 1pm. Drove to Kahoalua Beach Park (construction - so parking closed).

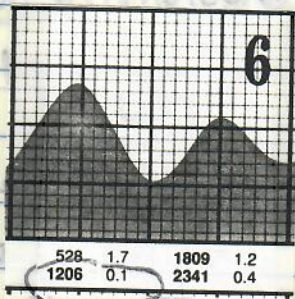
NO TURTLES SEEN. NO SIGN PRESENT - LOTS OF PLACES TO BOLT IT.

David Copra reported 10+ turtles with yellow paint streaks at end of embayment. George Watson ~~was~~ saw yellow-dot turtles (1/14 net captures release 1/15 am) while surfing 1/15 am.

1/15/92 Depart Aloha ^{FLIGHT} 681 4pm - arrive 4:35pm

PVAKO,
S. Kohala

6 FEBRUARY 1992
THURS.



2/6/92

Thurs. Depart FL 88 6:35am MF & GHB ^{Kona} 7:10am

Dollars rental \$19.95 +

To Pvako boat ramp in 8:30am

Rice, Watson, Ananda & Marania House

Strong wind - Gusts - some south
swell. Motored to regular "point"

starting place for scuba in direction
of boat ramp. For Scuba - Rice
and Watson in boat.

50 minute Scuba, 12 turtles
seen - one of which could be
seen to have metal tags. 5 of
the 12 were captured. Motored
to north of boat ramp to work up
and release turtles. All five engraved
~~and~~ on carapace and splayed with
yellow paint.

Installed "Warning" sign on Fishery

2/6/92

Management sign by boat ramp.

Drove to Hayatt Waikaloa - met
Linda Elliott - Assistants Suzie and
Teressa[?]. Saw one large and one
small turtle by waterfall.

Went snorkeling and immediately
saw largest turtle resting on bottom
near waterfall - 6' deep.

Captured 4 total in vicinity
of waterfall - 2 of which
were hovering at midwater
right in the splash zone
of the water. Not visible
from the surface or by
snorkeling unless
you dive down to get
under the bubbles.

Washed up 4 turtles
on the grass - photos
by PR person. Teressa.

Depart FL 287 5:35 pm arrive
6:20 pm

Puako

Tag Nos.	Date	Carapace Length (cm)		Weight (lbs)	Captured Method
		Straight	Curved		
N621, N622, N623, Z238	01/16/91	52.9	56.5	51.0	Hand/Snorkel
N624, N625, N626, Z239	01/16/91	50.3	54.0	47.0	Hand/Snorkel
N627, N628, N629, Z240	01/16/91	47.2	51.0	37.0	Hand/Snorkel
N630, N631, N632, Z244	01/16/91	55.9	59.5	54.0	Hand/Snorkel
N672, N673, Z264	02/06/91	35.6	37.5	---	Hand/Snorkel
N649, N650, N651, Z246	02/06/91	61.9	66.5	---	Hand/Snorkel
N652, N653, N654, Z247	02/06/91	64.8	68.5	---	Hand/Snorkel
N655, N656, Z248	02/06/91	51.8	55.0	---	Hand/Snorkel
N657, N658, N659, Z249	02/06/91	57.7	62.0	---	Hand/Snorkel
N660, N661, N662, Z250	02/06/91	61.9	67.0	---	Hand/Snorkel
N663, N664, N665, Z261	02/06/91	66.6	72.0	---	Hand/Snorkel
N666, N667, N668, Z262	02/06/91	56.0	60.0	---	Hand/Snorkel
N669, N670, N671, Z263	02/06/91	58.4	61.0	---	Hand/Snorkel
N674, N675, Z265	02/06/91	39.8	42.0	---	Hand/Snorkel
N747, N748, N749, N750	03/21/91	66.1	71.0	93.0	Hand/Snorkel

Puako

Tag Nos.	Date	Carapace Length (cm)		Weight (lbs)	Captured Method
		Straight	Curved		
Y860, Y861, Y862	06/13/90	71.7	75.5	---	Hand/Snorkel
Y863, Y864	06/13/90	54.5	58.0	---	Hand/Snorkel
Y865, Y866	06/13/90	58.1	61.0	---	Hand/Snorkel
Y867, Y868, Y869	06/13/90	64.6	69.0	---	Hand/Snorkel
Y870, Y871, Y872	06/13/90	63.7	68.0	---	Hand/Snorkel
N601, N602, Z231	01/16/91	46.9	50.0	37.0	Hand/Snorkel
N603, N604, N605, Z232	01/16/91	58.9	62.5	65.0	Hand/Snorkel
N606, N607, N608, Z233	01/16/91	61.8	67.5	85.0	Hand/Snorkel
N609, N610, N611, Z234	01/16/91	59.9	64.0	71.0	Hand/Snorkel
N612, N613, N614, Z235	01/16/91	57.4	61.0	60.0	Hand/Snorkel
N615, N616, N617, Z236	01/16/91	52.5	56.0	46.0	Hand/Snorkel
N618, N619, N620, Z237	01/16/91	53.0	56.0	50.0	Hand/Snorkel

MAUNA KEA

Tag Nos.	Date	Carapace Length (cm)		Weight (lbs)	Captured Method
		Straight	Curved		
Y876, Y877	06/14/90	0.0	47.5	---	Hand/Snorkel

Puako

Tag Nos.	Date	Carapace Length (cm)		Weight (lbs)	Captured Method
		Straight	Curved		
N751, N752, N753, N754	03/21/91	55.1	60.5	59.0	Hand/Snorkel
N755, N756, N757, N758	03/21/91	51.5	54.0	46.0	Hand/Snorkel
N759, N760, N761, N762	03/21/91	63.0	68.0	82.0	Hand/Snorkel
N763, N764, N765, N766	03/21/91	60.0	67.0	74.0	Hand/Snorkel
N767, N768, N769, N770	03/21/91	60.2	64.5	76.0	Hand/Snorkel
N771, N772, N773, N774	03/21/91	51.4	55.0	52.0	Hand/Snorkel
N866, N867, N868	06/10/91	66.6	72.0	85.0	Hand/Snorkel
N869, N870, N871	06/10/91	59.5	64.0	63.0	Hand/Snorkel
N872, N873, N874	06/10/91	54.0	57.5	50.0	Hand/Snorkel
N875, N876, N877	06/10/91	47.0	50.5	31.0	Hand/Snorkel
N878, N879, N880	06/10/91	57.1	61.0	58.0	Hand/Snorkel

(38)

KITHOLO #13

STUDENTS ON DAY 2

1/15/92

1/14 - 1/15/92
TUES. WED.

KRISTEN GLASPEY

Celeste Tabrah

Kimberlee Falkenhagen

Diane Faye

Minda Murphy

LORA LILLEY - "Tortugo" lora"

Kenny Grant

Catherine Rice

David Gladish

David Barbara, Kris Karty, Michial + Kris Kopra

Jen Long

Birgi Wurster

Sonriva Stepath (MMES - shirt-M)

Justin Withington

SHANTE PETERS

TETS INOUE

GLISSIE EVANTANCE

KITHOLO #13

13-15 JAN 92

Team 2

Amanda Roth

Rachel Shakelford

Vannesa Rutgers

Bart Wyatt

Cindy Berning

Team 3 Marania HOUSE

Grady Williamson

Nichole Raymond

Cy Spencer

Nikki Holm

Marania HOUSE

B.P. 435 Temae

MOOREA

French-Polynesia

Phones (689) 562675

--Summary of eight turtles tagged at Keawa Nui Bay, Hawaii 07/05/91--

National Marine Fisheries Service
2570 Dole Street
Honolulu Hawaii 96822-22396

Tag No.	Straight (cm)		Curved (cm)		Tumor Ranking	Comments
	Length	Notch	Length	Width		
Expedition date 07/05/91						
N884, N885, N886	66.6	66.4	71.0	62.5	0	Caught in throw net by James, yellow spot of paint applied as temporary marker. Few specks of CA on carapace, a few SB. 200' X 10' net in 1130 out 1500.
N887, N888	56.2	55.5	60.0	52.5	0	SB, BB in plastron, LHF 1st large scale in groin is substantially missing and healed. 3 distinct ridges to lateral scutes, growth rings? yellow paint.

--Continued

2

Tag No.	Straight (cm)		Curved (cm)		Tumor Ranking	Comments
	Length	Notch	Length	Width		
Expedition date 07/05/91						
N890, N891	60.9	60.8	65.0	59.5	0	small particle on mouth (possible gellidium) PCA on carapace, SB Yellow paint
N893, N894, N895	46.4	46.1	49.5	43.5	0	One spot of PCA on ventral marginal only. Red skin algae present. Yellow paint.
N896, N897, N898	58.4	58.0	61.5	54.0	0	LFF measurement taken, RFF damaged. SB; Red skin algae, 1 patch CA, yellow paint.
N899, N900	39.5	39.0	42.0	38.0	0	Whitish plastron, serrated edge to carapace. Speckled PCA (likely new recruit), yellow paint.
V58, V59, V60	56.8	56.4	60.0	51.8	0	SB, yellow paint.
V61, V62, V63	50.5	50.4	54.0	47.5	0	Sea water temp. 84 degrees F. PCA mild scum, like Kiholo turtles. Red skin algae, green algae on plastron, SB, yellow paint.

Summary of green turtles, *Chelonia mydas*, tagged and resighted at Puako, South Kohala, under the National Marine Fisheries Service/Hawaii Preparatory Academy sea turtle research project.

Compiled by
 George H. Balazs
 Southwest Fisheries Science Center
 2570 Dole Street
 Honolulu, HI 96822-2396

	Total no. captured	No. newly tagged	No. tag resighting	Total no. tagged in population to date	Peterson population index estimate*
6/13 1/90	5	5	0	5	-
1/1/91	11	11	0	16	-
2/91	10	10	0	26	-
3/1/91	8	7	1	33	208
6/10/91	5	5	0	38	-
NO. tagged turtles recaptured		Total No. turtles tagged			
Total No. turtles captured		Total No. turtles in resident population (X)			

70mm

HAWAII PREPARATORY ACADEMY

P.O. BOX 428 • KAMUELA, HAWAII 96743-0428
(808) 885-7321

March 8, 1991

Dear George,

Thanks again for allowing us to work with you and the sea turtles. This project continues to inspire our students and helps to stimulate their interests in science. Kiholo is indeed an ideal location to study the green sea turtle population and I hope, through our joint efforts we will never see it be developed into a park. Marc and I are looking forward to the one day trips in March and June. As soon as you decide on a convenient date, let us know so that we can round up students. We would also like to set up dates for the next school year so that we can put it on the school calendar. To keep the dates at Kiholo six months apart, I would suggest that we pick dates in October and April or September and March. We are all ready preparing for next year by organizing gear and constructing a new net with the webbing you sent over. I believe we have enough lead line and floats to make a new net. We are also repairing the net that we have been using. I have enclosed a copy of a letter I would like to sent into West Hawaii Today publicly thanking the Hind and Bakken families for their support of the program. I did not want to send it in until you had the chance to read it over and give your approval. I wanted to do something else (beside thank you letters) to recognize their continued support. If you feel it is a bad idea, I do understand and perhaps you may have an alternate idea to recognize these families. I look forward to hearing from you soon and thank you once again for allowing us the opportunity to do "real" science with our students.

Mahalo,

Monica M. Traub

List of students from this trip:

Group Leaders: Farris Bogue, Marina Nogues, Glenn Pogue, Liz Miura, Kevin Krammer, Sara Fuleihan, Bart Wyatt

Marina Beal, Marania House, Sam Berry, Lauren Hewett, Melina Leitel, Ryan Kadota, Hide Kashima, Taylor Easley, Bailey Rohrbach, Eva Anderson, Reed Martic, Cy Spencer, Kath Hannah, Kathryn Adams, Kahea Thronas, Robert Kawasaki, Celeste Ellis, Cassie Quaintance, Lora Lilley, Jamuna Berliner-Caverl, Laurie Meyers

P.S Got your message today. March 21 will be fine, talk to you soon.

8/09/84	7778-79	57.8	47.0	Kiholo
8/09/84	7780-81	65.7	52.9	Kiholo
8/09/84	3317-18, 7782	63.5	48.3	Kiholo
8/09/84	3313-14	--	--	Kiholo (recapture from 8/8/84)
8/09/84	3478-80	--	--	Kiholo recapture from 8/8/84
8/30/84	3496-97, 7761	62.1	--	Kiholo (recapture from 8/8/84)
8/30/84	7768-69	42.1	--	Kiholo (recapture from 8/9/84)
8/30/84	7766-67	48.2	--	Kiholo (recapture from 8/8/84)
8/30/84	7751-52	38.5	--	Kiholo (recapture from 8/8/84)
8/30/84	7783-84	40.0	--	Kiholo
8/30/84	7785-86	51.2	39.8	Kiholo
8/30/84	7787-88	51.2	41.0	Kiholo
8/30/84	7789-90	59.8	46.7	Kiholo
8/30/84	3499-3501	66.3	53.0	Kiholo

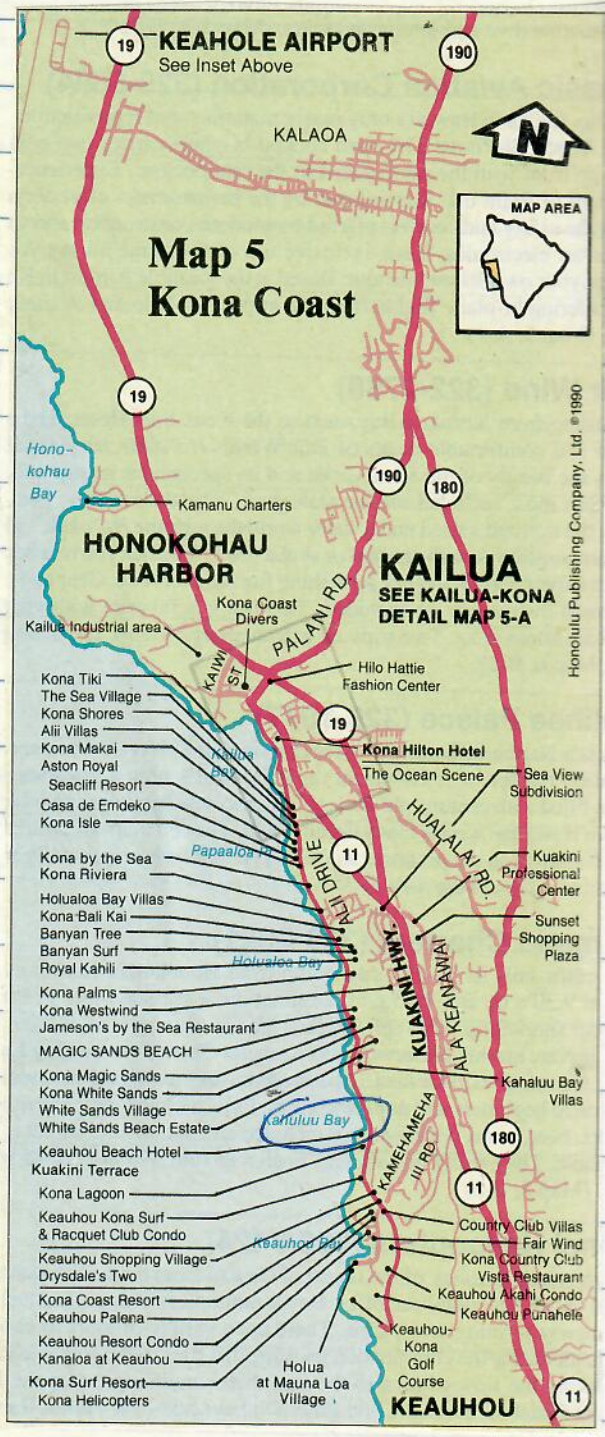
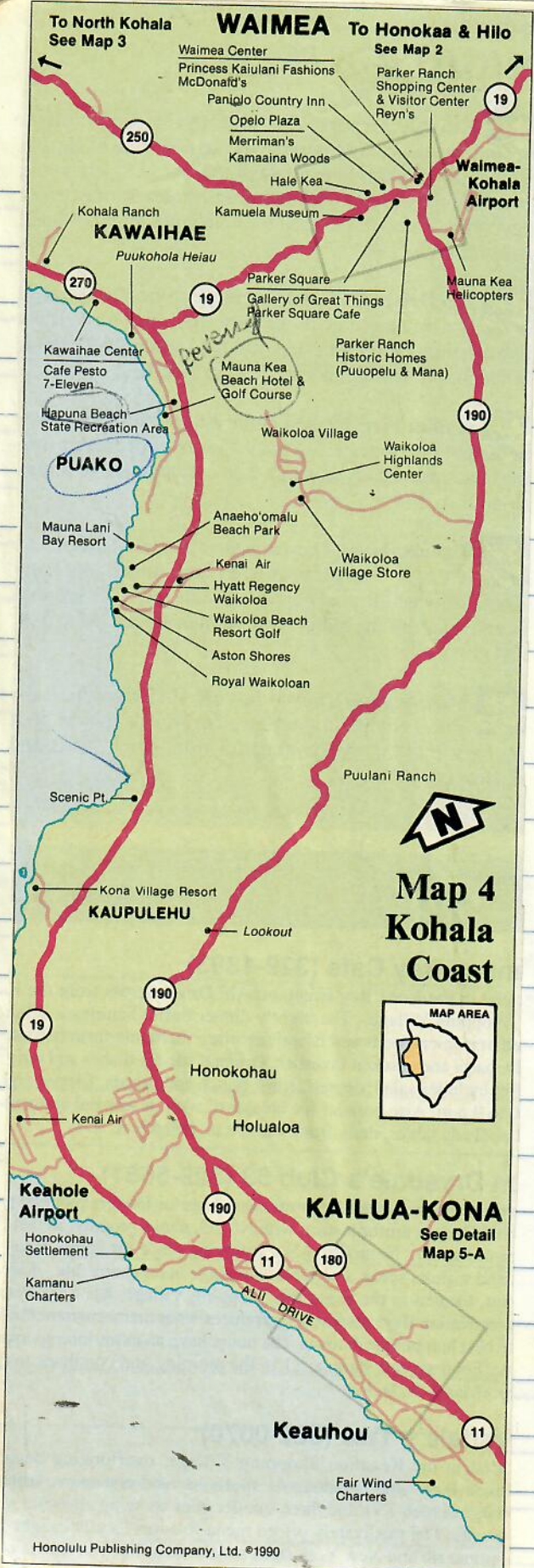
Summary of green turtles, *Chelonia mydas*, tagged
and resighted at Kiholo Bay during the National Marine
Fisheries Service/Hawaii Preparatory Academy sea turtle research project

compiled by
George H. Balazs
Honolulu Laboratory
Southwest Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822-2396

3 days/2 nights study dates	Total no. captured	No. newly tagged	No. tag resighting	Total no. tagged in population to date	Peterson population index estimate*
Oct. 87	6	6	-	6	-
Feb. 88	13	13	0	19	-
April 88	10	9	1	28	190
June 88	11	4	7	32	44
Oct. 88	21	15	6	46**	112
March 89	29	24	5	70	226
May 89	37	17	20	87	130
October 89	24	6	18	93	116
24-26 Jan. 90	22	9	13	102	157
25-27 April 90	58	21	37	123	188
24-26 October 90	51	18	33	141	190
4-6 March 91	55	12	43	153	187
13-15 JAN 92	62	21	41	174	

$$\frac{\text{*No. tagged turtles recaptured}}{\text{Total No. turtles captured}} = \frac{\text{Total No. turtles tagged}}{\text{Total No. turtles in resident population (X)}}$$

**Total number of tagged turtles reduced by one as of 8/19/88 when an individual tagged in 6/88 was found dead from gillnet entanglement.



Useful Information

WH 6 B L Q
George H. Balazs
992-A Awaawanoa Place
Honolulu, Hawaii 96825

MULTIPLICATION TABLE

CONVERSION TABLES

8-9-91 Officer J. Kaulukukui, Kiholo Bay, small intestine (necropsy)

<u>Cladophoropsis gracillum</u>	30%
<u>Gelidiopsis variabile</u>	30
<u>Gelidium adnata</u>	25
<u>Turbinaria ornata</u>	10
<u>Acanthophora spicifera</u>	5
Worm tubes	Trace

1 hectoliter (hl) = 100 l

8-9-91 Officer J. Kaulukukui, Kiholo Bay, Big Island, ~~small~~ ^{Stomach} ~~intestine~~, necropsy

<u>Coelothrix irregularis</u>	90%
<u>Bryopsis pennata</u>	10
<u>Turbinaria ornata</u>	Trace

Table of Time Measure

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

Table of Liquid Measure

4 gills (gi.)	= 1 pint (pt.)
2 pints	= 1 quart (qt.)
4 quarts	= 1 gallon (gal.)
3 1/2 gallons	= 1 barrel (bbl.)
2 barrels	= hogshead (hhd.)

Table of Paper Measure

24 sheets	= 1 quire
20 quires	= 1 ream
10 reams	= 1 bale

Table of Linear Measure

12 inches	= 1 foot
3 feet	= 1 yard
16 1/2 ft. (5 1/2 yds.)	= 1 rod
660 feet	= 1 furlong
320 rods (5280 ft.)	= 1 mile

Miscellaneous Measures

12 units	= 1 dozen
12 doz.	= 1 gross
12 gr.	= 1 great gross
20 units	= 1 score
1 hand	= 4 inches
1 fathom	= 6 feet
1 knot	= 6086 feet
3 knots	= 1 league
1 bu. potatoes	= 60 lbs.
1 barrel flour	= 196 lbs.
1 cu. ft. of water	= 7.48 liquid gals. and weighs 8.34 lbs.
160 sq. yds.	= 1 acre
Diameter of circle x 3.1416 = circumference	
Diameter of circle squared x .7854 = area.	
Atmospheric pressure is 14.7 lbs. per sq. in. at sea level.	
1 3/4 cu. ft. of air weighs 1 lb.	

Table of Avoirdupois Weight

16 drams	= 1 ounce (oz.)
16 ounces	= 1 pound (lb.)
100 pounds	= 1 hundredweight (cwt.)
2000 pounds	= 1 ton (T.)
2240 pounds	= 1 long ton (L. T.)

Table of Troy Weight

24 grains (gr.)	= 1 pennyweight (dwt.)
20 pennyweights	= 1 ounce (oz.)
12 ounces	= 1 pound (lb.)

Table of Circular Measure

60 seconds (")	= 1 minute (')
60 minutes	= 1 degree (°)
360 degrees	= 1 circumference
A degree of the earth's surface or a meridian = 69.16 miles at the equator.	

Table of Apothecaries' Weight

20 grains (gr.)	= 1 scruple (ʒ)
3 scruples	= 1 dram (ʒ)
8 drams	= 1 ounce (ʒ)
12 ounces	= 1 pound (lb.)

Table of Surface Measure

144 sq. in.	= 1 sq. ft.
9 sq. ft.	= 1 sq. yd.
30 1/4 sq. yds.	= 1 sq. rod
160 sq. rods	= 1 acre
640 acres	= 1 sq. mile
An acre measures 208.71 ft. on each side.	
A section of land is 1 sq. mile.	
A quarter section is 160 acres.	
A township is 36 sq. miles.	

METERS	YARDS	INCHES
1.000	1.093	39.37
.914	1.000	36.00

CENTIMETERS	INCHES	FEET
1.00	.394	.0328
2.54	1.000	1/12
30.48	12.000	1.000

KILOMETERS	MILES
1.000	.621
1.609	1.000

GRAMS	OUNCES	POUNDS
1.00	.035	.002
28.35	1.000	1/16
453.59	16.000	1.000
1,000.00	35.274	2.205

KILOGRAMS	OUNCES	POUNDS
1.000	35.274	2.205
.028	1.000	1/16
.454	16.000	1.000

LITERS	PINTS	QUARTS	GAL.
1.000	2.113	1.057	.264
.473	1.000	1/2	1/8
.946	2.000	1.000	1/4
3.785	8.000	4.000	1.000

2 USE 1
Large
4319