MOLOKAI

15-19 JULY 96
24-26 SEPT. 96
JUNE / JULY 97

(808) 395-6409
BALAZS

7

Bullpen not info

BALAZS
1996-97

7

SCP-97-05

15-19 JULY 96 PALAAU

TAGS USED = Q102 - Q106 then w/PITS ONLY

pages = Tide = 5

5 Pick-up DAYS

65 captures, 28 w/TMES = 43.1%

of which 7 recaptures = 12.1%

W/MAEC Rice

3 pickup DAYS 24-27 SEPT. 96 p.33-48 TAGS USED = Q110-Q111 DATA + ALL PITS

SITE B

59 TOTAL (30 TUMORED = 50.8%)

16 Recaptures

DULEBA Dead: nothing - 9/3/96 HALAWA for DNA; PARTIALLY Developed embryo DNA HALAWA 9/25/96

29 JUNE (Sunday) - JULY 97 TAGS USED = Q118 + ALL PITS

Narrative p.56 -

DATA PAGES 61 - 81

70 Turtles Total - 5 pickup DAYS, SITES F & B.

(36 Tumors 51.4%) 13 w/OLD TAGS = 18.6%

BOORUM & PEASE B&P

Composition Book • 9¾ in. x 7½ in.

Available As:

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

BALAZS

ESSELTE

Esselte Pendaflex Corporation, Garden City, NY 11530
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Need TRACE

SEL 29.2
32.9
53.4
54.2
61.3

PAU Hawa = 553-5342
PAULA Room - 119 (Large)

Tracking # 5396664770

3/13/00 from Ed - 200' off each wing and 800' off guide to comply with 6/88 DLNR rule of 2000' MAX. ∴ 1200' off 3200'
= 2000'
2000' = 610M
3200' = 975M

24-26 Sept. 96 Sample List

50

RBC and Plasma samples from Palaau, Molokai, 24-26 September, 1996

PIT tag ID	SCL (cm)
2211304F3B	53.7
220E153C44	67.2
1F712E3012	58.4
2207557557	71.8
22011D1B58	63.0
220126367B	71.0
221A623629	64.2
2207405637	68.0
221158702C	48.6
22106F4205	76.5 CCL
221A63371E	51.3
2207325064	60.4
220F7B1201	56.9
2205252004	51.2
2204572B4C	59.9
2205240227	63.6
22053B5816	56.7
2205284508	72.7
220E11014A	70.6
2207593662	55.1
2211591458	69.9
1F6D69711A	68.8
22034D584C	43.7
220E30725A	63.7
4104114910	62.5
22046B3805	55.5
4104096A3F	65.5
41040C1F1A	69.7
41037F2707	72.7
41041E2609	79.1
410408560A	72.7
41041E0F6F	67.4
41037E013E	53.8
4104112536	57.7
41040A395C	58.4
41040B044A	62.2
410375220E	57.4
41041A3E3D	69.0
410379422F	74.2
4104200C3F	69.9
410414763E	64.7
407D340538	76.7
407D3F6C03	66.1
41037E530D	55.6
41041E626A	63.3
4104230A62	70.5
41037F0C55	63.1
1F771F0249	67.4
407D2C7E56	60.2
407D2C3E2F	64.3

9110 83.9 6 mm skin Biopsy MAZE

---------- Forwarded with Changes ------

From: George Balazs 9/29/96 4:36PM (321 bytes: 3 ln)
To: Shawn Murakawa
Subject: bill puleloa

---------- Message Contents ----------

Just talked with Bill. He said that it hatched on 9-3-96 and he picked it up on 9-4-96 and tried to revive it. He said that it probably died on 9-6-96. The nest was found in the "left cove" (as we were in the "right cove").

Date: 30 Sep 1996 14:56:55 -0400
From: Denise Ellis <Denise.Ellis@noaa.gov>
To: "gbalazs@honlab.nmfs.hawaii.edu" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Hatchlings

George Balazs (MTRP Leader), Denise Ellis and Shawn Murakawa (JIMAR Associates) went to Halawa valley, Molokai on Wednesday, September 25, 1996. The primary objective was to search for evidence of possible hawksbill hatching in the area of the public beach, as a previous report of hawksbill hatching had come from the 'private' beach. The beach was scanned for possible hatchling tracks, stranded hatchlings, or nests with hatchlings at the surface. One lone hatchling track was sighted at the beginning of the beach. Some pits were examined without luck.

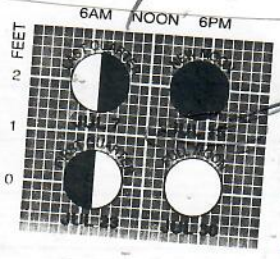
Near the far end of the beach (approx 1600 hrs), a number of hatchling tracks (possiblly 6-10 individuals) were seen by GHB and DME emanating from near the brush area going down toward the ocean. (GHB and DME were talking about seeing only bird tracks, then looked at area they were standing. DME asked are those bird tracks? GHB 'no those are hatchling tracks!!' [yee-haaa]) The area where the tracks seemed to start was examined carefully, by brushing the top 1-2" of sand away. After about a minute of searching DME noticed the sand moving in the area she was searching and two hatchling heads popped up. Hatchlings were counted as they emerged, and a total of 30 hatchlings came out on their own and scurried their way down to the ocean, the last one with a little assistance from DME as it seemed stuck on a root. This was conveyed to GHB, after further examination of the nest another 39 hatchlings were found underneath a layer of unhatched eggs. A total of 69 hatchlings made their way to the ocean, 2 hatchling were found in the nest dead and 94 eggs were counted that didn't hatch.

Denise- Before I leave on Tuesday COB will you please compose a draft paragraph or two describing in your words our encountering the hatchling tracks and hatchlings at the surface. For my own internal use, so don't send much time on it. Thanks, geo.

George H. Balazs
National Marine Fisheries Service
Marine Turtle Research Program
Honolulu Laboratory
2570 Dole Street
Honolulu, HI 96822-2396

Phone: (808) 943-1240
Fax: (808) 943-1290
Email: gbalazs@honlab.nmfs.hawaii.edu

JULY



7/15/96

B4 12-2-96 HONOLULU ADVERTISER

Prawn farmers must rebuild after flood

By Edwin Tanji
Advertiser Maui County Bureau

KAUNAKAKAI, Molokai — Prawn farmer Becky Bishop Yuen said she never thought filing for bankruptcy could be so inviting.

Becky and her husband, Mark Yuen, last month saw $500,000 and three years worth of preparation and labor wiped out by flooding in the normally dry Palaau flats of Molokai.

"But farming is like that," she said. "You know it's going to happen sometime. We just never thought it would be in our first year," she said.

The Yuens each have more than 20 years of experience in aquaculture, from working at the Orca shrimp farm and the state's Anuenue hatchery to working in shrimp farms in South America.

In 1993, they began work on fulfilling a dream to have their own prawn farm on Molokai.

"We like Molokai," Becky Yuen said. "The first time we came here — in 1978, I think — I knew this was where I wanted to live."

They negotiated a lease with Molokai Ranch to build 14 acres of prawn ponds. They constructed 13 ponds, drilled a well, installed pumps and bought equipment. They had stocked six ponds and had a harvest in October.

Then it began to rain.

"We got 20 inches of rain in an area that normally records 3.93 inches a year," she said. Their prawn ponds disappeared under a massive but shallow lake that formed along Molokai's south coast.

They're not giving up. State and federal agricultural officials already helped them to start applications for disaster relief, she said.

"Yeah, we'll rebuild. We'll make it," she said.

JULY 96.

CD SET NET

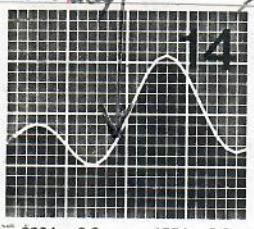
DAY 1 2 in net 2 hand (near net)

DAY 2 TUES

DAY 3

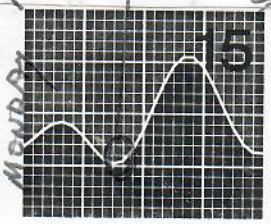
DAY 4

Sunday



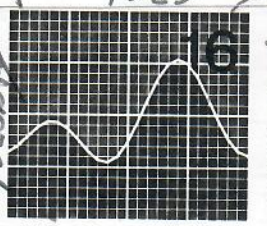
0304 0.8 1554 2.2
0832 0.0 2300 0.3

Monday



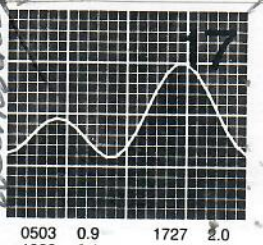
0343 0.8 1625 2.2
0908 0.0 2329 0.2

Tuesday



0422 0.9 1656 2.1
0944 0.1 2358 0.2

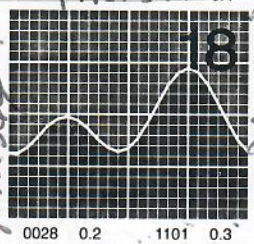
Wednesday



0503 0.9 1727 2.0
1022 0.1

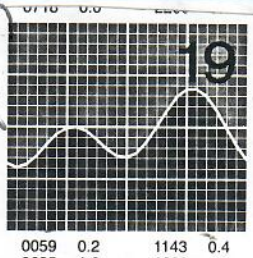
Thurs.

Thursday



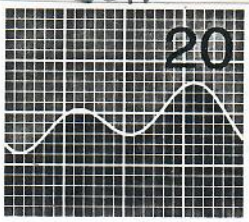
0028 0.2 1101 0.3
0547 0.9 1758 1.9

DAY 5



0059 0.2 1143 0.4
0635 1.0 1830 1.8

Sat.



0132 0.2 1233 0.6
0730 1.1 1903 1.6

July 15, 96 Depart Island Air "Dash 8" FL.
Monday 6:30 am Arrive 7 Am.
Budget Rental 49.99 day.
Met Bill at Aunt's house and proceeded to follow Ed / Dina / Jonathan / and Richard to Waitane petroglyph site. Poled "Di" out to the east where net had been laid out in shallow water Sunday 7/14 by noon. Numerous turtles seen by guide and wings and around outside. Laying still mostly. Only 2 turtles found inside pen. One was V-728 Predominantly olive shell w/ black specks originally (captured Palau 1991. Walked and poled in area after bagging a small number of fish. Turtles, mainly small, seen resting still in shallow (2-3' deep) water.

(husband Jerry)
Day 2 - Dina Potter, Mrs. Medeiros
Atosha Potter (Tolani school)
Jonathan, Richard, D
Mike Chang,

September 1, 1993

George,

Thanks for the data from the last expedition. Yes, it was a bit late! Erin has left for school...so it looks like I've got to enter them into the file myself. I guess it could be worse!

I don't understand how the confusion as to the id of sites! There really should be much of a problem to resolve any discrepancies. Each one of the turtles tagged anywhere on the south shore of Molokai have been assigned a site location. Give me a list of the animals you have in question, and I give you the location as to where they were captured and released. I think it is important for us to have this facet of the dbase coordinated.

A most interesting recovery from the Gilberts! Go to show you how important the tagging of turtles are if they are to managed properly. Gotta spend more efforts in the Marshalls as it very well may be the center of breeding activity for much of the northern Pacific, Hawaii not withstanding.

Report almost pau! Yeh...I know! Like saying the "check's in the mail", but it's true! IT IS ALMOST PAU!

Best regards,

Bill

July 24, 1996

George,

Thanks for copy of data.

Ernest has an unlisted number so I couldn't call him. Furthermore, the post office will not disclose his box number...so please send your standard "I thank you and we'll dig it up later" note to:

Mr. Ernest Deutsch
c/o Kaunakakai Post Office
Kaunakakai, Molokai, HI. 96748

Turtle data as follows:

1. 26.0 cm curved length
2. no tags
3. #1 & 2 tumors on neck, RFF, and LH
4. LFF missing

I forgot to mention to you while you were here the following stranding:

6/29/96 at Kamiloloa

1. tumors (#4) on both eyes
2. RFF missing
3. no tags
4. 90.0 cm straight length
5. 99.0 cm curved length
6. mature male

Sunday 7/14/96 - MONDAY 7/15/96 - WAIKANE

PICK-UP DAY 1 13

SITE "O" Sunday-Monday

#1 ✓

- RECOVERY -

RFF V-328
LFF V-330
RH V-329
NEW PIT

4103760F01

ATypical color pattern
1. scattered small black spots on carapace of olive color.
2. grey areas / patches on plastron

Soft skin.

SL: 61.3 ditto NOTCH
SW: 48.1
head WIDTH: 9.5
RF WIDTH: 9.2

5 lateral SCUTES on right
6 central SCUTES

SCORE = 1

Tumors: #2 (1) RFF - Shoulder area.

48.3 = PLASTRON
T = 13.5, 11 = tail
Blood: V328
~~for plasma banking~~ and RBC for DNA.

CL: 68.0
CW: 59.0

Need photo taken of Johnathan & Richard holding turtles standing in water

14 Sun. – Mon
7/15/96 – 7/16/96

SITE "O"
DAY 1

#2 SL 48.4 Notch 48.1 RFL: Q102
SW 38.5 RH: Q103
CL: 52.0

Blood - Q102

410414182C

#3 49.8 SL NOTCH 49.3
40.8 SW
52.5 CL RFL: Q104
38.7 PLASTRON RH: Q105

Blood: Q104

1F68766122

#4 44.1 SL NOTCH 43.7 RFL: Q106
37.5 SW RH: Q107
46.0 CW

Blood: Q106

1F6D4D4463

END of DAY #1

Total DAY 1 = 4 (1 TMR, 1 Recap.) Newly Tagged = 3

Mon. – Tues
7/15 – 7/16/1996 DAY 2 SITE "O" 15

TAGS

	STRAIGHT Length x notch x width	CURVED Length x width
#1	54.6 x 54.3 x 42.7	58.0 x 51.5
#2	52.3 x 52.0 x 40.1	56.0 x 49.5
#3	49.6 x 49.6 x 39.2	53.0 x 47.0
#4	61.0 x 60.5 x 47.5	65.0 x 57.5

#1

RECOVERY (PT): (New) 2007266158 — p.86 tumor count — SEE TABLE for

SCORE = 2

Plastron: 44.7
Blood sample: V844

RH = V-844 ✓
LH = B-812
RFL = V-840
LFL = V-843

#2

CLEAN

1F716C7014

Blood Sample: 1F716
PLASTRON: 42.2
RHF: 1/4 missing; healed

#3

CLEAN!

200A6B1A51

BLOOD: 200A6
PLASTRON: 39.8

#4

41040E0452

Blood: 41040
PLASTRON: 49.3

DAY 2 SITE O 7/15-7/16/96

TAGS - STRAIGHT MON TUES CURVED

L x N x W L x

#5 " 52.7 x 52.5 x 39.9 56.5 x 47.0

"Suspicious bump"

~~Tumor~~ Left Eye: ~~[illegible]~~ PLASTRON: 41.6

BLOOD: 4104187

4104182D33 - BLOOD

#6 8 central scutes! Blood: 4104194

43.9 x 43.3 x 36.4 35.1 x 41.0

35

clear!

4104194E4A - Blood

#7 68.7 x 68.3 x 51.4 73.6 x 63.5

POSTERIOR

Tumor Rt. Eye #1(1) PLASTRON: 54.5

SCORE = 1

4104173523 - BLOOD

#8 LEFT FRONT FLIPPER MISSING Healed ∴ PIT TAG ON REF!

PLASTRON: 38.0

STRAIGHT

47.6 x 47.4 x 38.4

curve

50.0 x 44.5

4104101648

4104101648 - Blood

DAY 2 SITE O

7/15-7/16/96

TAGS : Monday-Tues.

	STRAIGHT L	x	R N	x	W	Curved CL	x	CW
(9)	57.8		57.5		43.5	62		54

→ Snorkel Hand capture (1221 hrs) M Rec

Plastron = 44.8

Not Bull pen

Tumors

Neck 1 - #2

R. Eye - 1 #1

1 #2

L. Eye 2 - #1

4104185E20

Score = 1

Blood 414418

→ Snorkel Hand Capture 1220 hrs.

		L	x	W	x	W	CL	CW
(10)	Not Bull pen	44.9		44.2		38.8	48.	43.5

Plastron = 35.4

Blood = 1F715E

1F715E137F

Sent

Need photo of V328

Richard McDonald
1620 Brookfield Dr.
Denham Springs, LA 70726

#11 Recovery

Necropsy by T.W. 5/15/97 need from necropsy

TMRS

SCORE =

7/16/96 V-852 found dead entangled in shoreside end of "guide". TMRS. INTO 20gal. galvanized trash can. w/ice in Paul Hara Room.

need measurements and TMR count from necropsy.

DAY 2 = 11 (2 Recap, 4 TMR) (2 TMR) Newly Tagged = 9

18

WEDS. 3rd day SITE "F"
7/16 - 7/17/96
TAGS: Tues - Wed' STRAIGHT Curved
L x N x W C x C

#1 41.9 x 41.7 x 33.5 44.5 x 39.5

22101F0937 Blood

#2 7+8 marginal left healed mandible

43.4 x 43.3 x 35.0 47.0 x 41.5

2210080D3E Blood

#3 58.6 x 58.1 x 42.8 67.0 x 52.0

221A720135 Blood

#4 43.9 x 43.7 x 35.8 46.5 x 41.0

2210063F4B Blood

#5 59.6 x 59.4 x 46.0 65.0 x 57.0

22101A6113 Blood

#6 49.0 x 48.9 x 38.5 52.5 x 46.5

22105E2107 Blood

7/16-7/17/96 DAY 3 Site F

	STRAIGHT L x N x W	CURVED L x W
#7	67.6 x 67.5 x 50.4	72.0 x 61.5

2210733121 possible ♂ Blood

#8	50.6 x 50.7 40.6	54.0 x 40.5

221A616C2F Blood

VENTRAL = 5.1cm barnacle

#9	47.7 x 47.0 x 37.0	54.5 x 44.5

221A751C4B Blood

#10	63.1 x 67.9 x 47.9	68.5 x 61.0

220F7F4424 Blood

#11	63.4 x 63.3 x 48.1	69.0 x 59.0

221A623629 Blood

REL = Healed Notch

20 7/17/96

7/16 DAY 3 SITE "F"

	STRAIGHT L x W x W	CURVE L x W
#12	52.4 x 52.4 x 43.2	56.0 x 52.0
	2219281800 Blood	Tumors RH #1(1) #2(1) regression?
SCORE = 1		
#13	53.9 x 53.7 x 43.2	59.0 x 52.0
	22100F3354 Blood	
#14	61.3 x 61.3 x 48.7	66.0 x 60.0
	4104135A1E Blood	
#15	57.5 x 57.5 x 45.0	61.5 x 55.5
	4104017E0C Blood	
#16	54.6 x 54.4 x 41.7	59.5 x 50.5
	4104185452 ~~Blood~~ NO blood drawn	
#17	59.7 x 59.5 x 48.7	64.0 x 57.5
	41040F2752 NO Blood	
#18	44.6 x 44.3 x 36.1	47.5 x 42.5
	410423071D NO Blood	

7/16-7/17/96 STRAIGHT DAY 3 CURVED

site F

	L x N x W	L x W
#19	72.0 x 71.6 x 57.5	78.0 x 73.0

SCORE = 1

4104134408

BLOOD ~~[illegible]~~

REL #2(1) SHRUNKEN Regression?

#20	67.9 x 67.4 x 54.6	74.5 x 68.0

SCORE = 1

41041A2108 Blood

NECK #2(1)

#21	67.6 x 67.7 x 53.8	72.5 x 61.5

Score = 2

4104231557 Blood

SEE TABLE page 87 for tumor COUNT!

#22	45.9 x 45.3 x 37.3	49.5 x 43.5

41041F2324 Blood

Score = 2

Mouth #3(1) #2(1) left jaw tumor

Leye #2(1)

Reye #2(1)

#23	68.0 x 67.7 x 52.8	73.0 x 68.0

41041A1E3E Blood

Score = 1

RH #2(1) + shriveled something

Leye #1(1)

22 7/17/96 STRAIGHT CURVED DAY 3

7/16 Tues wed L x W x W L x W SITE

#24 63.3 x 63.1 x 49.8 69.5 x 67.0

SCORE = 1

4104172F2F Blood Raye #2(1)

#25 61.9 x 61.5 x 50.5 66.5 x 61.0

SCORE = 1

4104005073 Blood NECK #2(1)

RFL #3(1)

#26 65.6 x 65.7 x 49.9 71.5 x 63.0

Score = 1

410420547E Blood RFL #2(1) SHRIVELED Reopen

#27 44.6 x 43.9 x 37.7 48.0 x 45.0

Score = 3

4104160247 Blood SEE TABLES! page 88 for tumor count

#28 63.0 x 63.0 x 57.5 68.0 x 67.0

9464, 9465, H539, H540

Score = 3 Recovery

410420247A Blood mildly emaciated page 89

SEE TABLES for tumor count.

photos AVAILABLE.

#29 53.5 x 53.2 x 42.4 Right eye #1(1)

56.0 x 51.0 #2(1) LEF tail #2(1) TAIL

Score = 1

Caught in net wing.

22013E1D12 Blood

#30 42.4 x 42.0 x 35.4

-45.0 x 41.0 (curved)

7/16-7/17/96 DAY 3 SITE F

TUES WED

220E2F533E Blood

END of DAY #3

DAY 3 = 30 (1 (1 time) Recap. 12 times

Newly tagged 29)

THURSDAY
7/17 - 7/18/96
wed. Thurs

SITE F
PALAU
DAY 4

	STRAIGHT L x N x W	Curved L x W
#1	65.4 x 65.0 x 49.0	71.0 x 59.0

22083D5C55 Blood

#2	64.3 x 64.1 x 49.4	69.5 x 61.0

2205087E33 Blood

SCORE = 1

Lt. jaw hinge #1 (1)
rt. eye #1 (1)

#3	47.6 x 47.1 x 38.9	51.0 x 45.5

22047C3173 Blood

#4	54.7 x 54.6 x 47.6	58.5 x 51.0

22046B3805 Blood

L eye #2 (1) tail #2 (1)
R eye #1 (1) LH #1 (1)
LFF (LFL) #1 (1); #2 (1)
Tag site

SCORE = 2

7/17/7/18/96 DAY 4 SITE F PAGAAN

	L x N x W	L x W
#5	42.4 47.4 x 41.9 x 35.9	44.5 x 42.0
	2201514B65 Blood	
#6	59.9 x 59.7 x 46.7	65.0 x 56.5
	2201663C68 Blood	
#7	56.4 x 56.4 x 44.5	62.0 x 55.0
	2205145829 Blood	
#8	63.1 x 63.0 x 49.7	67.0 x 57.5
	22052A594D Blood	
Recovery #9	63.8 x 63.7 x 51.7	69.0 x 61.5
SCORE=1	220264795C Blood Lt eye #1(1) = shrivel Rt eye #1(1)	

OLD TAG: RH-V 595

TAG LOSS from R & L FRONT FLIPPERS! Healed "V" notches

#10	71.2 x 71.1 x 55.9	78.0 x 71.0
Recovery	A 2205317063 B Blood ID # ONLY RFF #2(1)	NO PIT TAG PLACED
SCORE=1	#2(1) on roof of mouth	V-574 on RFL T-50227 on LFL RH: V-575

STRAIGHT SITEF CURVED

7/17-7/18/96

L x N x W L x W

#11 70.2 x 70.0 x 54.3 76.0 x 68.0

22042B0819 Blood Clean!

#12 46.3 x 46.0 x 36.5 -1 49.0 x 42.5

page 92!

SCORE = 2

22013E5137 Blood

SEE TABLE for Tumor Count.

Tumor biopsy in formalin

#13 69.8 x 69.8 x 51.1 74.0 x 64.5

22040F745A Blood

Lt eye #2 (2)

Rt eye #2 (2) Ø NO VISION

Rt jaw hinge #2 (1)

RECOVERY

LEF: Z103

Score = 2

REF: HEALED NOTCH

* SEVERELY Emanciated *

#14 51.9 x 51.8 x 41.5 56.0 x 49.0

220254195D Blood Clean!

END of Day 4

DAY 4 = 14 (3 (3 time) Recap. 6 Time (1 newly T...)

SITE "D"

L x N x W — STRAIGHT — CURVED

FRIDAY DAY #5
7/19 - 7/20/96
Thurs. - Friday

#1 71.9 x 71.7 x 54.4 — 76.5 x 65.5

22015C7E6E Blood

one ventral hamrock = 4.5 cm

#2 67.2 x 66.9 x 51.1 — 72.0 x 63.0

2205245A66 Blood

Score = 2

Rt. jaw hinge : #1 (1) #2 (1)
glottis → #1, #2 (1ea)

AMPHIPODS sp.
ANTHropods, many

Two projected horny scales ~~on~~ by anterior of glottis

Biopsy TAKEN of glottis and JAW HINGE TUMPS. SUBMITTED TO AFIP

#3 46.9 x 46.4 x 37.4 — 49.5 x 43.5

Score = 1

2205272140 Blood

L & R eyes = #1 on each

#4 55.9 x 55.8 x 42.2 — 60.0 x 50.5

Score = 2

22040C1570 Blood

Left eye : #2 (1) (bloody)
RFF : #2 (1)

tangled in guide

suspecious bump on glottis.

#5 64.0 x 64.0 x 49.4 — 69.5 x 63.0

Score = 3

20081C3606 Blood

tumor count on p. 90

End Pick-up
DAY 5

END PALAU 7/15 - 7/19/96

DAY 5 = 6 (0 Recap 5 TAME)

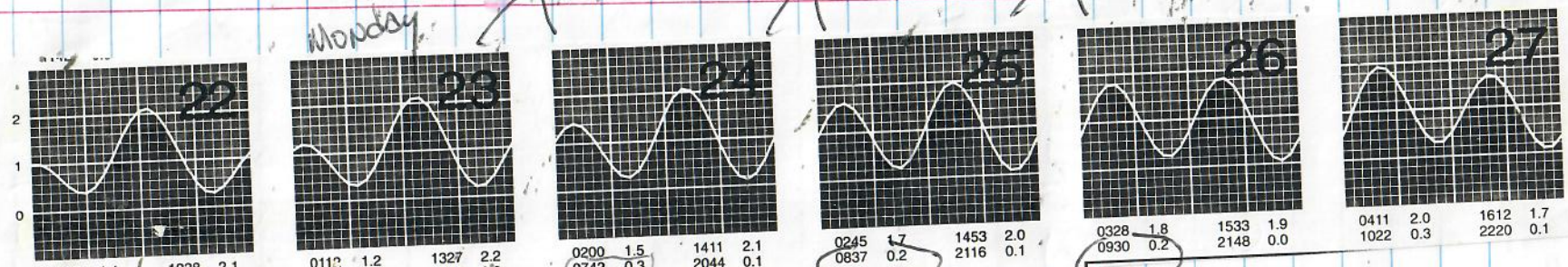
newly Tagged = 6

#6 Tagged turtle, missing hind flippers
emaciated - Not tagged - Caught entangled
7/20/97 in wing - Dead.
Shipped to Honolulu HI.
need Necropsy 5/15/97
necropsy
by Thierry work

SEPT. 96

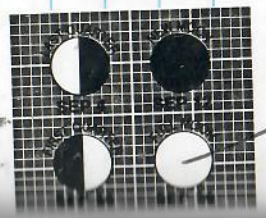
DAY 1 DAY 2 DAY 3

Monday



22	23	24	25	26	27
0015 1.1	0112 1.2	0200 1.5	0245 1.7	0328 1.8	0411 2.0
0534 0.4	0642 0.3	0742 0.3	0837 0.2	0930 0.2	1022 0.3
1238 2.1	1327 2.2	1411 2.1	1453 2.0	1533 1.9	1612 1.7
1936 0.3	2011 0.2	2044 0.1	2116 0.1	2148 0.0	2220 0.1

TUES



9/26/96

PALAAU

24 Sept 96 5:50 AM
Tuesday ALOHA AIR FL.

SHKM & GHB. DAY 1 Departed from Dock ~ 730 AM
outside reef – calm, very little swell.

9/26/96 Aloha Is. Air FL 1151
3:45 PM

9/24 net had been set SITE B
at ~ 10 AM 9/23 Monday morning.
Seaweed 82°F – waist deep water.
29 turtles taken from net, however
there were others still in it.
People on boat – DART, Julie,
Bill Pateloz KAMALANI (~2 year boy), Julie's
(this day only) sister's 4 year old daughter (Paul Torgan)
Mr. Medeiros ("Uncle Joe"), Mike Chang.
4 eagle rays in net alive – 1 meter
wing span.
Motor back to wharf – arrive ~ 3 PM.
Room 119 & 120 are larger rooms.

553
5342 DAY 2 Net same place – depart
~ 8 AM – no DART no Bill.
No Mr. Medeiros. went to MANGROVES
21 turtles in net NEAR BIOMASS TOWER UP.
Denise picked up at airport at 620 AM

9/25/96 In afternoon we drove
Wednesday
(continued p.50)

ALL SITE B

AOPM

9/23-9/24/96 DAY 1 29 (12 Tumored)
9 Recaptures (of which 6 Tumored)

9/24-9/25 DAY 2 21 (13 Tumored)
4 Recaptures (3 of which Tumored)

9/25-9/26 DAY 3 9 (5 Tumored)
3 Recaptures (2 Tumored)

TOTAL = 59 (16 Recaptures, 11 Tumored)
30 Tumored (50.8%)

9/25/96 ♂ Q110/Q111 = SKIN BIOPSY for DNA SL=83
+ 50 DNA & PLASMA Samples (See p. 2 for l

Note - one of turtles captured on DAY 1 had a markedly different colored, yellowish shell w/ speckled black. Note not entered as to which one.

Need to look up TAG 10600 (Maui Lani or SLP) data - Not in TDPS.

SITE = B PALAAU 9/24/96 DAY I 33

L x L x W L x W

(1)

RECAPTURE: L3-4 = BBA-406 CURVE

83. x 82.8 x 60.2 88.0 x 76.0

BoboBelo REL = healed NOTCH

Male LFL Y403

221A696941

BARNACLES ON PLASTRON

sexually mature tail.

(2) 53.7 x 53.6 x 41.5 58.5 x 50.5

SCORE = 1 Rt eye #1(1)

Lt eye #1(1)

2211304F3B

Blood sample for plasma banking and DNA

(3) 67.2 x 66.6 x 49.4 71.0 x ?

SCORE = 2 220E153C44

Rt eye #2(1) BLOOD

Lt eye #1(1)

Lt jaw hinge #1 (1)

Rt jaw hinge #1 (1)

(4) 58.4 x 57.4 x ? existing 64.0 x ?

LFL B841 1#712E3017 = LFF

RECAPTURE RFL B842

Score = 1 LH B843 BLOOD SAMPLE

RH B844 rt eye #1(1)

(5) 71.8 x 71.6 x 53.5 77.5 x 68.5

RECAPTURE LFL = Y812

RFL = Y811

2207557557

BLOOD

Day 1 9/24/96
Site B Poloan

(6) 63.0 x 63.0 x 48.8 68.5 x 58.5
LFF = 1/3 missing + healed
Rt shoulder = suspicous patch
22011D1B58 BLOOD SAMPLE

(7) 71.0 x 70.9 x 54.9 76.0 x 71.0
220126367B BLOOD SAMPLE

(8) 64.2 x 63.9 x 49.4 70.0 x 60.5
Recapture
REL = Healed notch
221A623629 = RECAPTURE
EXISTING <> BLOOD SAMPLE

(9) 68.0 x 67.3 x 52.8 74.0 x 65.0
2207405637 = BLOOD SAMPLE

(10) 48.6 x 48.0 x 37.9 52.0 x 44.0
221158702C = BLOOD SAMPLE

(11) LFL = Z90 BLUE plastic 76.5 x 70.0
Recapture
REL = Y931
RH = J741
No straight line measurements entered
22106F4205 = BLOOD SAMPLE

DAY 1 9/24/96
Site B Palau

(12) 51.3 x 51.0 x 40.3 55.0 x 47.0

221A63371E BLOOD SAMPLE

(13) 60.4 x 60.4 x 46.3 64.5 x 56.5

2207325064 BLOOD SAMPLE

(14) 56.9 x 56.7 x 43.8 60.5 x 51.0

220F7B1201 BLOOD SAMPLE

(15) 71.8 x 71.8 x 59.1 78.0 x 77.0
P.C BROKEN + healed

221A583C10 NO BLOOD!

(16) 68.4 x 68.3 x 48.8 72.0 x 64.0
1st left marginals = healed indent
SCORE = 1
neck #2(2)
220F7D4E31 RFF #2(1) NO BLOOD TAKEN

(17) 51.2 x 50.7 x 39.5 51.5 x 46.0
SCORE = 1
2205252004 Lt eye #2(1) BLOOD SAMPLE

Recapture
(18) SCORE = 1 77.4 x 76.7 x 61.4 83.0 x 74.5
6th marginal left healed INDENT
Rt eye #2(1) H628 = RFF H629 RH
Lt eye #1(1) T50289 = LFV
NO BLOOD ↳ AUSTRALIAN
22050E1F01

36 DAY I 9/24/96 Site B Paloan

(19) 59.9 x 59.8 x 47.7 64.5 x 55.5

SCORE = 3

RFL #3(1)
LFL #4(1)
NECK #1(1)
Rt jaw #2(1)

2204572B4C

BLOOD TAKEN

---

(20) 63.6 x 63.2 x 48.9 68.0 x 60.0

SCORE = 2

Lt eye #2(1) RFF #3(1)

2205240227 = BLOOD TAKEN

---

(21) 56.7 x 56.2 x 44.7 61.0 x 53.5

SCORE = 2

22053B5816

RFL #1(2) + #2(1)
LFL #2(1) Lt eye #1(1)
NECK #2(1) BLOOD TAKEN

---

(22) 72.7 x 72.4 x 58.5 78.5 x 75.0

SCORE = 2

2205284508

RFF #2(1) + #3(1)
NECK #2(1) glottis #2(1)
Left eye #1(1) + #2(1)
rt eye #2(1) BLOOD TAKEN

---

(23) 70.6 x 70.3 x 56.5 76.5 x 69.0

RECAPTURE

SCORE = 7

LFL = Z176 RFF #2(1) } regression ?
RFL = ~~N348~~ LFF #2(1)

Pre Central
Healed NOTCHES

220E11014A = BLOOD TAKEN

DAY 1 9/24/96
Site B Palau

(24) 55.1 x 54.5 x 43.6 59.5 x 58.0
LEFT HIND = healed notch
L eye #1(2)
= BLOOD TAKEN
SCORE = 1

2207593662

(25) 69.9 x 69.7 x 56.7 75.0 x 68.0
Rt eye #1(1)
Lt eye #1(1)
Rt jaw = #2(1)
LH LJ711 LH J712
RFL J710 RH J713 = BLOOD TAKEN?
PREMATURE SCORE = 1

2211591458

(26) 68.8 x 68.4 x 53.8 75.0 x 65.0
1F6D69711A existing pit
RFL B856 rt eye eye #1(1)
LFL B855 left eye #1(1)
RH B854 BLOOD TAKEN
LH B853
PREMATURE SCORE 1

(27) 43.7 x 42.5 x 34.3 46.0 x 40.5
Clean shell; likely NEW RECRUIT
= BLOOD TAKEN

22034D584C

38

Day 1 - Falcon Site B IMBEDDED IN TUMORS. 9/23 - 9/24

(28) 63.7 x 63.7 x 51.2 69.0 x 61.5

R2-3 - 10,600 - REMOVED

Left tag = embedded w/in tumors!

UNREADABLE

Receptive

Scope 3

LEE #4(1) + #3 (2)

RFP #3(2) + #2 (2)

NECK #3(2)

#2(4) BLOOD taken

Rt eye #2(1)

Lt eye #2(1)

Rt jaw #2(1)

Lt jaw #2(1)

#3 glotta

220E30725A

TAG # 10,600 NOT IN TDPS database!

(29) 62.5 x 62.4 x 48.9 67.5 x 61.0

4104114910

Blood taken

END DAY 1

9/24 - 9/25/96 DAY 2 Paloma (53.5 54.2 61.3)
Site B

① Recapture

Straight Length x Notch x Straight width
55.5 x 55.3 x 42.8

Curved L x W
59.0 51.0

existing Old? 22Ø46B38Ø5

Tumors: L. eye 1#2
LFF 2#1

Score = 1 Tail (cloaca) 1#2 Blood taken

② 65.5 x 65.5 x 51.3 71.0 x 62.5

Tumors: RFF 1#2 (possible regression)

4104096A3F

Score = 1 Blood taken

③ 69.7 x 69.7 x 54.4 73.0 x 67.0

Tumors: Neck 1#2
R. eye 1#2, 2#1
L. eye 1#2, 1#1
(Skin above) RHF 1#4
LFF 1#2
L jaw hinge 1#2
R. jaw hinge 1#2

41040C1F1A

Blood taken

Score = 3

40 "TWIN JOKE" Bill Arteloa told

DAY 2 site B 9-25-96 Faloon

④ 72.7 x 72.3 x 57.9 77.5 x 72.5

41037F2707

Tumors: LFF 2#4
L.eye 1#1
Neck 1#4

Blood taken

Score = 3

---

⑤ 71.5 x 71.2 x 58.0 79.0 x 73.5

Old: RHF J720 / LHF : J721

4104127A09

Recapture Tumors: L.eye 1#1
R. eye 1#1

RFL LFL healed slit

Score = 1 (not for TDPS) No blood taken

---

⑥ 79.1 x 78.9 x 63.0 85.5 x 80.5

41041E2609

Tumors: RFF 2#4, 1#3
LFF 1#3, 1#2
Neck 1#4 ++
R. eye 1#2, 1#1
L.eye 1#2, 1#1

Leeches
6 centrals
Blood taken
NO mouth check

Score = 3

---

⑦ 72.7 x 72.4 x 56.5 78.0 x 67.5

410408560A

Tumors: RFF 1#3 (regression)

Score = 2

Blood taken

Palau Site B DAY 2 9-25-96

(8) (7) 67.4 x 67.3 x 54.6 73.0 x 65.0

41041E0F6F

Tumors: LFF 1#3, 1#2
RFF (distal) 1#4
Neck 1#3
R. eye 1#2
L. eye 1#1
Glottis 1#2
L. jaw hinge 1#1

Blood taken

Score = 3

(9) 71.9 x 71.7 x 57.6 78.0 x 72.5

Old: RFL 6750

Recapture

4104154F32

Tumors: RFF 1#4
Neck 1#3, 1#1
R. eye 1#3 (very bloody)
L. eye 1#1, 1#2
LFF 1#2

LFL healed notch

No blood taken
not for TDPS

Score = 3

(10) 77.2 x 77.1 x 60.1 83.0 x 76.5

41040F4D5A

Tumors: LFF 1#4 ++, 1#2
Neck 1#3, 1#2
R. eye 1#2
L. eye 2#1

4th-6th L. marginals healed indentation
· Leech eggs
No mouth check
No blood taken

Score = 3

not for TDPS

Site B DAY 2/9-25-96 Paloan

(11) 53.8 × 53.6 × 43.5 57.5 × 52.0

41037E013E

Tumors: RFF 2#2, 1#3
LFF 1#2, 1#3
Neck 2#2,
L eye 2#2
R eye 1#2, 1#1
Glottis 1#2
R. jaw hinge 1#2
L. jaw hinge 1#2
RHF 1#2
Tail 1#2

Blood taken

Score = 3

(12) 57.7 × 57.5 × 42.8 62.0 × 53.5

4104112536

Blood taken
no mouth check

(13) 58.4 × 58.1 × 46.0 63.5 × 55.5

41040A395C

Blood taken

Palaau site B
DAY 2 9-25-96

(14) 62.2 x 62.1 x 47.5 66.5 x 57.0

41040B044A

Blood taken

(15) 57.4 x 57.2 x 43.7 61.5 x 54.0

410375220E

Blood taken

(16) 69.0 x 69.0 x 53.8 74.0 x 66.0

41041A3E3D

Blood taken

TO P. 45

From p.43

DAY 2 9-25-96

Site B Palau

(17) 74.2 x 74.1 x 56.7 80.0 x 70.0

4103794 22F

Blood taken

(18) 75.9 x 75.5 x 58.0 81.5 x 73.0

Recapture

Old: RFL Y786

4104205F2F

Healed slit LFL

(19) 83.9 x 83.9 x 62.6 88.5 x 76.0

4104136857

No mouth check New: LHF Q111

Mature tail ♂ RHF Q110

1mm Skin biopsy from L. Shoulder (dorsal) FOR DNA

(20) 69.9 x 69.5 x 55.6 Regressed 75.0 x 67.0

#25 Left & Right Shoulder - one each.

TUMORED

4104200C3F

Score = 1

Blood taken

(21) 64.7 x 64.4 x 51.6 69.5 x 62.0

Moderate emaciation / Blood taken

410414763E

Tumors: LFF 3#3, 1#2 RJH 1#3

Score = 3

LHF 1#2 RFF 1#2 Neck 1#3, 1#2

L. eye 2#2, 1#1 R. eye 1#2 (smooth swelling)

END DAY 2

DAY 3 9/25 9/26/96 Paloma Site

(6) 76.7 x 76.5 x 58.0 83.5 x 74.5

suspcious bump left eye

407D340538

Tumored 1 #2 LFL
1 #2 neck

Blood taken

Score = 1

(7) 66.1 x 65.8 x 50.1 Blood taken 70 x 62

1 #4 LHF
2 #2 Leye
1 #2 Reye
1 #2 roof mouth

407D3F6C03

Tumored

Score = 3

To p. 48

Site B Day 3 9-26-96

Palaan

H2O Temp 82°F

① 55.6 x 55.3 x 44.2 60 x 52.5

Recapture RFL R-265
LFL Healed slit
LH R-267

41037E530D

Blood taken

② 63.3 x 63.1 x 50.8 69 x 60

41041E626A

Fish Blood

Blood taken

③ 70.5 x 70.3 x 57.0 76 x 70

Fish Blood

4104230A62

Blood taken

④ 63.1 x 63.0 x 54.1 68 x 64

41037F0C55

Blood taken

Recapture Tumored

⑤ 67.4 x 67.4 x 54.0 73 x 66.5

Blood taken

LHF B835
RHF B834

RFL 2 #3, neck 1 #2
1 #3 LFF (LFL)
Lower 1 #3 Rear 1 #2, 1 #1

1F771F0249
LFL Y431
RFL Y43

③

Day 3 9-26-96 Site B.

Falcon

65 X 58.5

(8) 60.2 X 60.2 X 46.5

1/4 LHF curved piece missing + healed

407D2C7E56

Receptive, Turned

1#2 LFL
1#2, 1#1 Reye
1#1 Leye
1#2 RJHinge

old Y-558
RFL Y-557
Blood taken

Score = 3

(9) 64.3 X 64.3 X 50 68.5 X 60.5

407D2C3E2F

Turned

LFL 1#4 @ LFL; 1#3
RFL 1#3 RFL; 1#4
Leye 2#2
Reye 2#1
moderate emaciation
neck 1#3
mouth glottis 1#2
LJHinge 1#2
RJ Hinge 2#1

Blood
leech eggs
1 VB

Score = 3

END

Continued from p. 31

9/25/96 to Halawa Valley. Bill had
wef given for DNA me a dead hatching E.i.
found across river - left side
we walked right, nearly to Mesquite
tree - Numerous hatching tracks
in sand (dry) very fresh. Located
hatchling heads at surface.
73 (?) alive out - photos - watch
them go to ocean. 2 dead in
embryo nest. 87 (?) partly developed or
DNA collected no developed eggs. Washed by
waves causing mortality?
Two cats near us, but didn't
pay any attention to hatchlings
Shaun departed 6:45 pm flight.

SITE B

9/26/96 DAY 3 - 9 turtles
in net. ~~[illegible]~~ picked up
net and returned by ~ 130

See page 54

V879
V880 - V882

Date: Fri, 2 May 1997 12:39:29 -1000 (HST)
From: Bill Puleloa <puleloa@aloha.net>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Nesting at Kawa'aloa Bay

George,

Good news: Last night Joan Aidem, Dick Langer, and I had an opportunity for the first time to tag one of the nesting females frequenting Kawa'aloa Bay. She was encountered her during the excavation of her third pit at a location just west of the fishing shack.

The data as follows:

105.0 cm (curve length)
94.0 cm (curve width)
92.0 cm (straight length)
69.0 cm (straight width)
V879 (RFF)
V880 (3-4 LFF)
V881 (LH)
V882 (RH)
Tumors: #3 LFF at normal tag site;
#1 neck
#1 RFF

Bad news: The animal was very lethargic. She made absolutely no attempt to escape even when tags were being applied. My guess is that she's on her last legs...and she knows it. Most unusual to be nesting during daylight hours. She had not move an inch from her last pit at sunset...but was gone when we check again this morning. (Yes, there were tracks leading back to the sea!) Nevertheless, after years of trying, we finally got to id a nesting female on the north side of Molokai. If we're lucky, we'll see her again in the near future...back on the beach doing her thing.

Under seperate covers I've sent you some tissue sample for DNA if you so desire. It's immersed in some denatured alcohol.

I saw the obituary in the papers. Yes, Dan was a good man. He'll be missed.

Aloha,
Bill

PS...Has Chris decided where he's going next year yet? After an agonizing two weeks of procrastinating, Nahoe finally settled on the University of Portland. It's a small coed school taught by the Congregation of Holy Cross, the same Catholic order that serves Notre Dame. At the going tuition rate, I'll be a permanent fixture with the State for the unforeseeable future.

SEA TURTLE NECROPSY/TUMOR FORM

NECROPSY DATE: 05 / 15 / 97 STRANDING ID, DATE AND LOCATION:

GHB	07-16-96	Palaau, Molokai
PERSON RECORDING DATA: SKKM		

DESCRIPTIVE REMARKS: Found inside bullpen.
RFL tag at RFL border and R1S.

Necropsy by T. Work 5/97

TAGS:
- L1S V851
- RFL V852
- RHF V853

SEX: MALE, FEMALE OR UNDETERMINED

DB: 0 VB: 0

No PIT found

STRAIGHT CARAPACE-LENGTH: 49.1 WIDTH: 37.7

NOTCH LENGTH: 48.3 PPS (Y/N): N

CURVED CARAPACE LENGTH: 52.0 WIDTH: 45.0

HEAD WIDTH: 7.9

TAIL LENGTH: T 8.5 C 4.5

RIGHT FRONT FLIPPER WIDTH: 8.5

PLASTRON LENGTH: 39.8

WEIGHT: 34.0#

SAMPLES COLLECTED:
- Humeri + tags
- Forestomach contents

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RT. EYE						
LT. EYE						
MOUTH	2				2	2#1 RJH
NECK	2	7	1		10	
RFF	5	5			10	3#1/1#2 RFL tag site & 1#2 distal trailing edge
LFF	1	5			6	1#2 LFL tag site
RHF		1			1	
LHF						
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
TOTAL	10	18	1		29	

OTHER INFORMATION:

V851

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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Tag information--

Tag Number	Date Tagged	Tag Type	Tag Position
V851	07/22/93	I681	LFL
V852	07/22/93	I681	RFL
V853	07/22/93	I681	RHF

Historical information--

Date	Type of Encounter	Location	Tumor Score	Nesting Activity	Curved Length	Since Last Encounter Interval Month	Since Last Encounter Interval Year	Since Last Encounter Growth-rates cm/mon	Since Last Encounter Growth-rates cm/yr	Overall Interval Month	Overall Interval Year	Overall Growth-rates cm/mon	Overall Growth-rates cm/yr
07/22/93	Near Shore	Molokai, Palaau O	0	-	46.5	---	---	---	---	---	---	---	---
07/16/96	Near Shore	Molokai, Palaau O	0	-	---	35	2.9	---	---	35	2.9	---	---

See over for photo

See p. 57

Glue into MOLOKAI

HC 01 Box 121
Kaunakakai, HI 96748
July 26, 1997

Dear George,

Nice to see you on Molokai. We've had two hatches, several more prospecting turtles coming in digging pits + one fine fat Hawaiian monk seal on Kawaaloa Bay since you were here.

Here's the picture of Cecily Turtle, as promised. If your office cares to acknowledge it the gal who took the picture + sent me her copy for you is:

Sent

Judy Oliver
2478 Morning Dove Ct. NW
Salem, OR 97304.

Regards,

Joan Ridem

SEA TURTLE NECROPSY/TUMOR FORM

NECROPSY DATE: 05 / 15 / 97 STRANDING ID, DATE AND LOCATION:

GHB	07-20-96	Palaau, Molokai
PERSON RECORDING DATA: SKKM		

DESCRIPTIVE REMARKS: Caught in bullpen wing.
Abrasion on 1st central on carapace resulting from GHB towing turtle on the reef.
LHF missing maybe not amputation, no scar, possibly hatched without flipper.
Adult leeches and leech eggs.

Necropsy By T. Work 5/97

TAGS: None

No PIT found

SEX: MALE, FEMALE OR UNDETERMINED

DB: 0 VB: 0

STRAIGHT CARAPACE-LENGTH: 61.1 WIDTH: 45.3

NOTCH LENGTH: 60.8 PPS (Y/N): Y

CURVED CARAPACE LENGTH: 65.0 WIDTH: 55.5

HEAD WIDTH: 9.2

TAIL LENGTH: T 12.0 C 7.5

RIGHT FRONT FLIPPER WIDTH: 10.4

PLASTRON LENGTH: 47.9

WEIGHT: 51.0#

SAMPLES COLLECTED:

Humeri

Forestomach contents

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RT. EYE		1			1	
LT. EYE						
MOUTH						
NECK	1	1			2	
RFF						
LFF		3	1	1	5	
RHF		1	1		2	1#3 associated with ventral PC
LHF						
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
TOTAL	1	6	2	1	10	

OTHER INFORMATION:

TUMOR SCORE: 2

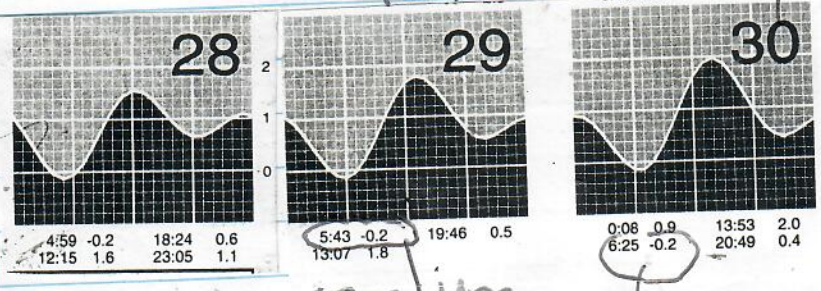
APPROXIMATE TUMOR SIZE CATEGORIES:

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

56

Pickup Day (1) Day (2)

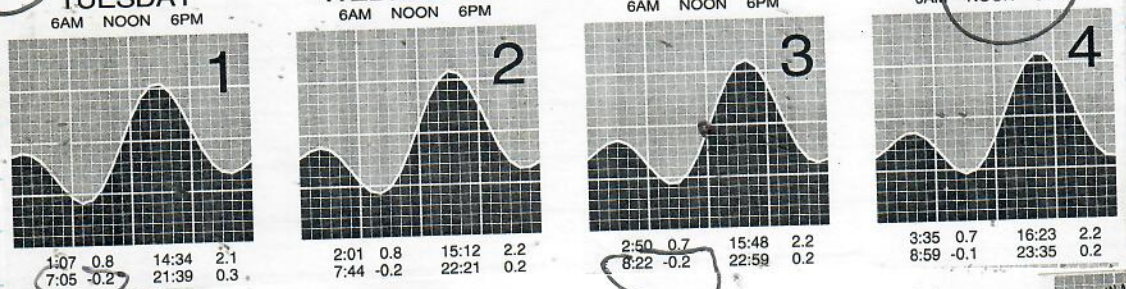
JUNE 97 Sunday Monday



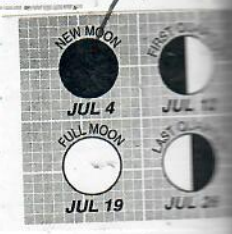
10 Turtles (6 Turtles)

17 TURTLES (8 Turtles)

Day (3) JULY 97 Day (4) Day (5)



No Moon



11 Turtles (10 Turtles)

30 Turtles (13 Turtles) SITE B

2 Turtles (1 Turtles) SITE B

70 TOTAL (36 with Turtles) (51.4%)

(need to break by size classes and give score + mean score)

Score 1 = 18 ~~IIII~~ ~~IIII~~ ~~IIII~~ III (50%)

Score 2 = 12 ~~IIII~~ ~~IIII~~ II (33.3%)

Score 3 = 6 ~~IIII~~ I (16.7%)

Score 4 = 0

Total = 36

70 captured (13 Tag Recap)
10 w/ TMES
3 NO TMES

29 JUNE 97 — Albrecht – 2 wks ago on Molokai

Sunday – ~~AL~~ ISLAND AIR 1224 depart 620am

Mon 6/29 – Me & Bill (ED, Diane, Joey (28 years old),

Tues 6/30 & 7/1 – Shaun & Paul (7/1 – 2 year Wedding Anniversary).

6/29 Evening – Thierry work

7/1 – Evening – Shaun & Paul leave; Denise arrive

Tues 7/1 – Fed Gped Algae to Jay Landsberg collected at low tide near Paul Hayda.

Wed. 7/2 – Fed Gped, Algae collected at low tide off Kuhens Beach, Paloou.

7/3/97 555pm Aloha Air Dash 8 to Honolulu

Days 1, 2 & 3 Site = F

Days 4 & 5 Site = B

– DNA Identity

– Recaps – Historical Gold 4Ø7736482 4

– Hawp's specolum – catalog

needs – Roger Allen

– Pit Tag Reader to Bill

– Animal Cage to Bill

– Seal Tetracycline Dose in plastic

– Collect algae

– Go to Maui.

– SHAM Revision of Livestrand, EU, etc.

– hawk video to K. Smith & Hew/Brooks

– $5 each TO ISAH &

Bill Puleloa – RFF Biopsy – 4Ø773CØ86D

"Leave me alone" (and I'll take care of it).

Turn page 3 for p.

Straight carapace length

Straight carapace length (cm)	mL Liquamycin
35-39.9	0.5
40-44.9	1.0
45-49.9	1.7
50-54.9	2.3
55-59.9	3.0
60-64.9	3.6
65-69.9	4.3
70-74.9	4.9
75-79.9	5.6

Curved carapace length

Curved carapace length (cm)	mL Liquamycin
40-44.9	0.7
45-49.9	1.3
50-54.9	1.9
55-59.9	2.5
60-64.9	3.1
65-69.9	3.7
70-74.9	4.3
75-79.9	4.9
80-84.9	5.5

~~Tag-29~~ Pick-up DAY 1 (29 JUNE 97 Sunday)
SITE F

(1)

STRAIGHT	CURVED
63.8 x 63.6 x 57.5	69.0 x 62.0

1. clean; no tumors
2. BLOOD ~~sample~~ FOR PLASMA BANKING and DNA, 3.6 ml Q
3. internal tag applied

3.6 ml LIQUAMYCIN

40772D5C08

TW 1 0.1 ml PCB, 2 whitecell/buffy coat

(2)

52.6 x 52.1 x 41.8	56.5 x 51.5

1. 8 central; 6 left laterals
2. blood sample taken
3. applied internal tag
4. clear (0 tumors)

2.3 ml Q

40775530 63

TW 2

(3)

61.4 x 61.2 x 48.9	66.0 x 60.0

1. blood taken
2. internal tag applied
3. clear, 0 tumors

3.6 ml Q

40775158 53

TW 3

(4) TAG Recap.

56.9 x 56.8 x 43.0	61.5 x 52.5

(1) 3.0 ml LIQ Q injected
(2) RFL #3(1) + #1(1)
neck #2(1)
(3) blood taken

TUMOR SCORE = 2

INTERNAL tag! 220 4 0 C 15 7 0

TW 4

SITE = F 6/29/97 Pickup Day!

(5) 49.6 x 49.2 x 39.0 53.5 x 46.0 ∅

SCORE = 1

(1) blood sample taken
(2) #1(1) right eye
#2(1) left eye
(3) leeches IN jaw hinges

1.7 ml ∅

40773C475F

TW5

(6) 63.7 x 63.6 x 50.9 68.5 x 60.0

Score = 2

(1) #1(1) right hind
#3(1) RFL
#2(1) LFL = regression? tumor
(2) blood sample taken
(3) #2(1) L jaw hinge

3.6 ml ∅

4077503B2A

TW6

(7) 60.3 x 59.8 x 45.0 65.0 x 56.0

Score = 1

(1) #2(1) R eye
(2) blood taken

3.6 ml ∅

40774D251F

TW7

(8) 50.9 x 50.8 x 39.9 54.5 x 47.5

Score = 2

(1) RFL 2(#2) 1(#3)
LFL 1(#2) 1(#3) R EYE 1(#2)+1(#1) ∅
NECK 2(#2) L eye 1(#2)
tail 1(#2)
(2) blood taken

2.9 ml ∅

40773D3927

TW8

6/29/97 Pickup DAY 1

TAG Recap

SITE = F

(9) 70.3 x 70.3 x 54.9 76.0 x 70.0

(1) V571 (RFL)
(RH) V573 TW 9
(2) blood taken
(3) clean

4.9 ml @

40775231 3F

TAG Recap.

(10) 77.1 x 76.9 x 59.9 83.0 x 72.5

Score = 3

(1) LFL V368
(2) leeches
(3) RFL #4(1); #3(2); #2(1)
LFL #3(1); #2(2)
NECK #2 (3); #3(2)
REye #2(2)
LEye #2(1)
(4)

tag embedded unreadable. left in Place

5.6 ml @

40774C3575

6/30/97 Pickup DAY 2

(1) 48.0 x 47.5 x 37.0 51.0 x 43.5
(1) clean

TW 1 0.2 ml Blood for White cell count

1.3 ml @

4077759620B

(2) 46.6 x 46.4 x 37.1 49.5 43.0
(1) clean

TW 2

1.7

4077460A73

6/30/97 SITE F DAY 2

(3) TW3 49.8 x 49.4 x 40.3 53.4 x 47.5

1.3

(4) TW4 56.0 x 55.9 x 42.4 59.5 x 51.0

4077341844 3.0

(1) jaw hinge, leeches
(2) rt eye = suspicious bump

(5) TW5 43.5 x 42.9 x 34.9 45.5 x 40.0

4077335842 1.0 ml

(6) TW6 47.6 x 47.3 x 37.1 50.0 x 42.5

4077461651 1.7 ml

(7) TW7 52.7 x 52.5 x 40.6 56.0 x 46.0

4077363145 2.3 ml

(8) TW8 44.7 x 44.0 x 36.3 47.5 x 41.0

40772F3E21 1.0 ml

6/30/97 DAY 2 Site = F

(9) 59.5 x 59.3 x 45.9 63.5 x 56.5

TW9

407755164E 3.0

clean

(10) 50.3 x 49.8 x 43.6 53.5 x 49.5

TW10

4077364824 2.3 ml

Need to determine DNA ~~and~~ Identity

(1) light color / gold carapace clean
(2) likely new recruit

(11) 47.5 x 47.3 x 37.1 50.0 x 43.0

TW11

40773C086D

Score = 2

(1) RFF = ~~GONE~~ missing amputated
(2) RFF 1 (#2) → biopsy taken into healed. 10% formalin
left eye 2 (#1)
right eye 1 (#1)
(3) neck 1 (#1)

TW12

(12) 49.4 x 49.1 x 37.7 53.0 x 47.0

4077331A0F 1.7 ml

SCORE = 2

(1) RFF 3 (#1) 1 (#2
LFF 2 (#2)
NECK: 2 (#2) "PATCH"

(2) impact injury Right side carapace - Healed.

DAY 2 6/30/97 SITE = F

(13) 51.7 x 51.5 x 39.5 55.5 x 46.5 TW

407D290C7E 2.3 me

Score = 1

(1) NECK 1(#2) 1(#1)
RFF 1(#2) 1(#1)
LFF 1(#1)

(14) 52.4 x 52.4 x 40.9 55.5 x 48.5

407739327A 2.3 me TW

Score = 1

(1) left eye 1(#1)
right eye 2(#1)
(2) healed v notch Left HIND

(15) 50.7 x 52.4 x 41.3 55.0 x 48.0

40775B2867 2.3 TW

Score = 1

(1) right edge carapace bitten off
(2) LH 1(#1)
(3) right jaw hinge 1(#1)
(4) LFF trailing edge 1(#1)

(16) 54.6 x 54.7 x 42.5 58.5 x 49.5

4077472301 2.3 me TW

Score = 1

Reye 1(#2) neck 1(#2)
L eye 1(#2)
RH 1(#2)

6/30/97
SITE = F

Pickup
DAY 2

(17) 71.8 x 71.8 x 60.1 77.0 x 72.5

4077584725 4.9

RECOVERING! Y781 (LFL) Y782 (RFL)
HINDS appear small
(1) RH (slit in middle) Thorny Work Sample #17
(2) clean

SITE =

DAY 3 Pickup July 1, 1997

(1) 49.4 x 49.1 x 38.3 53.0 x 45.0

22115A0C13 clean TW18

(2) TW19 50.4 x 50.1 x 39.6 54.5 x 47.0

Score = 1

407D354A1E 2.3 ml (blood drawn at 9:45 am)

(1) right eye 1 (#1) Left eye 1 (#1)
rt jaw hinge = leeches
jelly stuff in mouth (blood drawn @ 9:55a)

(3) TW20 48.1 x 48.0 x 37.7 51.0 x 45.0

2201175B11 1.7 → Acanthopra in mouth #?

Score = 2

Leye 1 (#1) Reye 1 (#1) Rjaw + Ljaw 1 (#1)
LFF 1 (#1) + 2 (#2) + 1 (#3) NECK 6 (#1) + 1 (#2)
RFF 1 (#3) + 2 (#1) + 1 (#2) LH 1 (#2) TAIL = 1 (#2)

July 1, 97 Pickup Day 3 SITE = F

(4) TW21 52.0 x 51.9 x 41.2 56.5 x 57.0

220F724152

Score = 3

NECK 2(#3) + 1(#2) + 1(#1)
LFF 1(#2) RHind 2(#3) LH 1(#3)

---

(5) TW22 48.2 x 47.9 x 38.7 52.0 x 45.0

221A555079

Score = 2

Rt eye 1(#2) LH 1(#4)
Lt eye 1(#1)

---

(6) TW23 53.7 x 53.0 x 47.7 57.0 x 52.0

221A744D7B

Score = 1

LFF 1(#1) Left + right jaw hinge = leeches
NECK 2(#2) rt jaw hinge 1(#1)
RFF: 2(#2) + 1(#1)

---

(7) TW24 56.9 x 52.6 x 44.4 61.5 x 52.0

220760023D

Score = 1

LFF 1(#2)

TW25 JULY 1, 97 Pick up DAY = 3 SITE = F

(8) 55.5 x 55.7 x 43.4 60.0 x 52.0

221A731248 3.0

Score = 3

rt jaw 1 (#3)
Lf jaw 1 (#2)
tongue 1 (#1)

Leye 1 (#1) + 1 (#2)
Reye 1 (#2)
LFF 1 (#3) + 2 (#2) + 1 (#1)
RFF 5 (#2)

LH 1 (#2)
RH 1 (#2) + 1 (#1)

TW26

(9) 61.2 x 61.0 x 49.2 65.0 x 58.5

SD# 1F7106561 4 (pit tag) RECOVERY!

Score = 2

RFF B.487
LFF B486 (embedded in tumor)
* 2.5 ml Q (needed 3.6 ml)
B 488 LH
B 489 RH
L+R jaw 1 (#1)
Leye 1 (#2)
Reye 1 (#2) + 1 (#1)
neck 2 (#2) + 1 (#1)
LFF 1 (#3) + 2 (#2)
RFF 2 (#2)

72

Score=2 JULY 1, 97 DAY 3 SITE = F

(10) TW27 67.3 x 67.0 x 52.8 71.5 x 63.5

220F774069

3.4 ml (required 4.3 ml)

LH Q118 New

can feel P.I.T. tag under the skin.

neck (#4) 1 + 2 (#2)

Ljaw + Rjaw

1 (#1) 1 (#2)

RFF 1 (#4)

---

(11) TW28 67.9 x 67.8 x 53.1 72.5 x 61.5

TAG RECOVERED!

☆ PIT # 410423 1557

3.0 ml Q (required 4.3 ml)

Score = 2

NECK 6 (#2) + 1 (#1)
RFF 2 (#2) + 2 (#1) + 1 (#3)
LFF 4 (#2) + 2 (#1)
Rege 2 (#2)
Lege 2 (#2)
Rjaw hing 1 (#2)
Ljaw hinge 1 (#1)

LEFT HIND MISSING and healed

July 2, 97
DAY 4

New
S176 = B

(1) 63.7 x 63.6 x 49.5 70.0 x 59.5

407C753554

TW29

(2) 47.6 x 47.5 x 35.9 52.0 x 43.0

407D275E71

TW30

(3) 49.9 x 49.5 x 40.1 53.0 x 47.0

22100F0329

TW31

(4) 57.8 x 57.6 x 43.0 55.0 x 50.0

22100C2F05

TW32

(5) 49.3 x 49.0 x 40.0 53.5 x 49.5

2207387D28

NO BLOOD TAKEN!

(6) 64.0 x 63.7 x 48.0 70.0 x 61.0

221A7B5266

TW33

DAY 4 SITE ~~B~~ 7/2/97

(7) TW34 72.9 x 72.6 x 54.6 78.5 x 69.0

2211570317

(8) TW35 70.2 x 69.8 x 54.1 75.5 x 67.0

221A5D1174

(9) TW36 53.9 x 53.9 x 40.7 59.0 x 50.0

2008220A2C

(10) TW37 56.5 x 56.2 x 43.9 60.5 x 54.0

1F6C4E2403 LEFT HIND TORN

(11) TW38 54.3 x 53.9 x 42.6 59.0 x 57.0

1F6F244608

(12) TW39 68.7 x 68.4 x 56.6 74.0 x 68.5

TAG RECOVERY=

1F69513572 New PIT

RFF J174
LFF J175
RH J176

DAY 4 7/2/97 SITE B

TW40

(13) 58.4 x 57.9 x 44.4 63.0 x 53.0

200C70687C

(14) 52.6 x 52.2 x 42.2 56.5 x 49.5

TW41

1F6D61682B

(15) 51.9 x 51.9 x 39.9 56.0 x 47.0

TW42

1F74576C2A

(16) 56.2 x 55.4 x 44.9 60.5 x 54.5

TW43

1F6F62216F

(17) 67.9 x 67.9 x 55.1 TAG Recov. 75.0 x 68.5

LH - R299
RF - R298
RH - R300

TW44

Score = 1

1F70653158

Reye 1 (#2)
Ljaw 1 (#1)

78

DAY 4 7/2/97 SITE B

(18) TW45 62.4 x 62.1 x 48.5 67.5 x 59.5

1F75211833 new pit

LFF V121
RFF T50242 (AUSSIE)

Score= 1

RECOVERY

Reye 1(#2)
LFF 1(#1); 1(#2)
NECK 2(#2)

(19) 59.1 x 58.8 x 46.5 64.5 x 55

20080E2327

NO BLOOD! token

Score= 1

Leye 1(#1) + 1(#2)
Reye 1(#1)
LJH 1(#2) 1(#2) ⇒ RHIND
RFF 1(#1)

~~Score B~~

Score 3

62.8 x 62.8 x 51.6 67.0 x 61.5

RECOVERY!

(20) TW 46

LFF 9464
RFF 9465
PT 41042047A
<> previously tagged

Leye 1 (#3)
Reye 3 (#1)
RFF 1(#3) 1(#2)
Rjaw 1(#2) neck 1(#2)
Tail 1(#2)

! severely emaciated

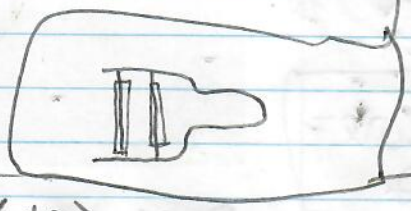
DAY 4
7/2/97
SITE ~~B~~

HARP'S specimen Need-Shaun

TW47 54.5 x 54.1 x 44.2 58.5 x 51.5

(21)

1F6D403E65



Score= 1

RFF 1(#2) NECK 1(#2) regression

60.5 x 60.5 x 49.9 64.5 x 58.0

(22) TW48

1F74125605

Score= 3

kicker: + eggs
LFF 3(#3) + 1(#2)
RFF 1(#2) + 2(#1) + 1(#3)
NECK 1(#3) + 5(#2) + 1(#1)
r eye 1(#2) + 1(#1)
L eye 2(#1)
Rjaw 2(#2) LH 1(#3) RH 1(#2)

(23) TW49 63.0 x 62.8 x 49.9 68.0 x 62.0

Score=1

RFF J766 RH J768
LFF J767 LH J769

1F6E781269 New pit

Recovery

~~Score=4~~

Reye 1(#2)
Leye 1(#1)
RFF 1(#1)

78

DAY 4 2 JULY 97 SITE B

TW50

(24) 61.0 x 61.1 x 49.3 66.0 x 58.9

1F6E500D16

Score = 2

RFF 2(#2) 2(#1) 1(#3)
LFF 2(#2) 1(#1)
anterior carapace 2(#2)
neck 2(#2) 2(#1)

TW51

(25) 68.6 x 68.6 x 53.9 75.5 x 68.0

1F696E3159

Score = 1

Left eye 1(#1) right eye 1(#1) + 1(#2)

TW52

(26) 69.0 x 69.0 x 54.5 75.0 x 71.5

1F72572C8C

Score = 1

R eye 1(#1)
LFF 1(#2)

DAY 4 SITE B
2 July 97 wednesday

TW53
27
76.9 x 76.9 x 61.4 83.5 x 76.0

Score = 1

200C587309 NEW PIT

Recovery RFF V569 RH V570
LFF T50226 (AUSSIE)
LFF 1 (#2)

TW54 missing - healed
LFF bitten off (1/4 left)
28
70.8 x 70.8 x 54.9 76.0 x 72.0

SCORE = 1

1F6C525E45 NEW PIT > tagged today on RFF

Recovery RH B840 Reye 2 (#1)
LH H580 leeches on jaw hinge, lots
RFF 10766 RFF 1 (#2).
LFF 1 (#2) regression

80

DAY ~~4~~ 7
SITE ~~B~~ 2 JULY 97

(29) TW35 76.9 x 76.9 x 57.9 82.0 x 70.0

1F69127175 NEW PIT > today!

Recovery

5.0 ml
(5.6 required)

LFF H 630
RFF T 50290
RH H 631

Left lateral deeply indented; healed

(30) TW56 75.8 x 75.8 x 58.8 82.0 x 77.0

Score = 3

1F746E5E21

3.0 ml instead of 5.6

RFF 1(#4) ← leeches glottis 1(#2)
R eye 2(#2) 1(#1)
L eye 2(#1)
neck 1(#2)
Ljaw 1(#1) + 1(#2)
Rjaw 1(#2)

DAY 5 7/3/97 SITE B

END 81

TW57

SIR L	NOTCH	SW	CURVED LENGTH	C. W
49.4 X	49.2 X	37.1	53. X	44.5

LHF - AMPUTATED, HEALED

1st TURTLE

1.7 ml LA200 IM UPPER "ARMS"

1F77301717

SL	N	SW	CL	CW
63.9 x	63.7 x	48.7	69.5 x	58.0

Tumor Score = 2

2nd TURTLE

3.6 ml ~~LA200~~ LIQ IM UPPER "ARMS"

1F71184800

TW58

TUMORS

L EYE 1 x #3

end

Date: Sat, 5 Jul 1997 17:09:34 -0600
From: "R8_NWHR.HON" <R8__NWHR.HON@nbs.gov>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: 0.2ml blood for whitecell counts

Roger that...58

PCV	Total solids
Mean (SD)	Mean (SD)
Range	Range
36 (7)	3.7 (0.8)
15-47	1.4-5.4

Good trip on Molokai....I very much enjoyed it.

TMW

Date: Fri, 4 Jul 1997 14:18:49 -1000 (HST)
From: Bill Puleloa <puleloa@aloha.net>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Palaau tagging.

George,

As far as I can make out, it was at site "F" the first couple of days, the site "B" the last couple of days.

You'd think one week of looking at turtles was enough...but I got a call this morning at 7 am. One very dead turtle washed up on Kawela beach.

(1) no previous inconel/monel tags (pit tag ?)
(2) tumored
(3) 76.0 cm curved length
(4) left lateral bitten off by shark
(5) ocean disposal

You can be thankful for me not sending you this one. Really ripe!

Roger + Allen
320 Aloa St. #1109
Kailua, HI 96734
263-8035

from Kawela Bay
Saw wife, daughter and baby at Molokai airport 7/3/97

LOCATION, SIZE, AND NUMBER OF TUMORS

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

New PIT = 20072665

OTHER INFORMATION:

Turtle #1
V-844
adult leeches present.

DAY 2

page 15

B812
V840
V843

7/16/96

TUMOR SCORE: 2

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	Total	Remarks
RT. EYE	1	1				
LT. EYE	1	1				
MOUTH	1	1				R & L jaw hinges
NECK	2	2				
RFF	4	1				
LFF	5	2				
RHF						
LHF						MISSING ? healed
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
Total						

OTHER INFORMATION:

Day 3: frogl #21 new Pit

4104231557

TUMOR SCORE: 2

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	Total	Remarks
RT. EYE	1	1				
LT. EYE	1	1				
MOUTH		2				L & R jaw hinge
NECK		3				
RFF		4	1			
LFF	1	4	1			
RHF		5	1			
LHF		2	1			
CLOACA/TAIL		2				
SEAMS/SCUTES						
INTERNAL						
Total						

OTHER INFORMATION:

#27

4104160247 New pit

TUMOR SCORE: 3

LOCATION, SIZE, AND NUMBER OF TUMORS

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

OTHER INFORMATION: 410420247A New PIT

#28
9464 = LFL
9465 = RFL
H539 = RH
H540 = LH

RECOVERY!

TUMOR SCORE: 3

LOCATION, SIZE, AND NUMBER OF TUMORS

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

OTHER INFORMATION:

#5 turtle on day 5 page 27

1. adult leeches on jaw hinges.

new PIT= 2ø081C36ø6

TUMOR SCORE: 3

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:

TUMOR SCORE:

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	Total	Remarks
RT. EYE		2				
LT. EYE	3					
MOUTH	2	2				both jaw hinge
NECK		2*				
RFF		1*				
LFF		1				
RHF		1	1*			
LHF		2				
CLOACA/TAIL						
SEAMS/SCUTES						
INTERNAL						
Total						

OTHER INFORMATION:

DAY 4
Turtle #12 page 26

New PIT
22 ∅ 13 E 5137

* denotes where biopsy ~~taken~~ from

9/18/96

TUMOR SCORE: 2

From: Shawn Murakawa 12/5/96 1:30PM (1541 bytes: 1 ln)
George Balazs
ect: Molokai data

---------- Message Contents ----------

I went back and found 4 entries that need a tumor score:

1) 09-03-82 PalaauG Tag: 6414
Comments:
Score = 2
Not engraved. Moderate tumor on left eye. Small tumor on right eye. Tumor on left 3rd marginal edge of shell. 2 small tumors on left shoulder. Heavy hard scum on carapace.

2) 10-16-85 Palaau Tag: 9523
Score = 3
Heavily infested with tumors. Photos taken.

3) 06-03-87 Palaau Tag: 6698
Score = 3
Scum and silt on carapace. Tumors over eyes and behind FF. 2 tumors on LHF. Painted #9. Photos taken, including close-ups of tumors.

4) 07-13-88 PalaauA Tag: 10818
Score = 1
Tumor ventral neck. Painted blue #2. Orange "PG" orange bottom R34.
Attempted stomach sample-sample saved. Photos taken of tumors on ventral neck.

I checked through 7-5-89 and it seems that they were given a tumor score starting in 1989. Not much to fix! Great!

DATES	Days Fishing	No. Captured	No. Newly tagged	No. with TMR	% TMR	No. w/ TAGS Recaptured	Recap %	No. with TMR	% TMR
28 FEB. – 2 MAR. 90	2	13	12	5	41.7%	1	7.7	0	0%
7-9 MAY 90	3	51	44	5	11.4%	7	13.7	1	14.3
2-3 JULY 90	2	36	29	10	34.5%	7	19.4	3	42.9
9-11 JULY 90	3	82	72	13	18.1%	10	12.2	3	30.0
9-11 JULY 91	3	31	28	6	21.4%	3	9.7	1	33.3
15-16 NOV 91	2	45	27	9	33.3%	18	40.0	7	39%
4-6 DEC 91	3	41	26	12	46.2%	15	36.6	9	60
26-29 MAY 92	4	121	84	38	45.2%	37	30.6	26	70.3
29-31 JULY 92	3	70	57	27	47.4%	13	18.6	8	61.5
4-6 JAN 93	3	55	32	12	37.5%	23	41.8	12	52.2
		545	405	137	(33.8%)	148	27.2%	70	(47.3%)
19-22 JULY 93	4	64		25	39%				
SEPT 28-1 ~~Oct~~. 94	4	46		19	=41%				
10-14 JULY 95	4	56	39	34	~60.7%	15	38.5%	4	57.1%
15-19 JULY 96	5	65	40	28	55%	16	28.6	12	75%
24-26 SEPT 96	3	59	43	30	=48.3% 50.8%	17	36.2% 44.2%	7	100%
			58	19		16	10.3 22.1	11	68.8%

Need -

Size of recaps
VS
Size of newly Tagged

TDPS Summary Report? NO. w/TAGS Recaptured

	DAYS Fishing	NO. captured	NO. Newly Tagged	NO. WITH Tumors	% Tumors	% Recap	NO. WITH TMR	% TMR
29 JUNE - JUL 97	5	70	57	36	51.4%	18.6%	13 (10)	23
7-9 JUL 1998								
5- JUL 1999								

Date: 30 Sep 1996 14:56:55 -0400
From: Denise Ellis <Denise.Ellis@noaa.gov>
To: "gbalazs@honlab.nmfs.hawaii.edu" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Hatchlings

George Balazs (MTRP Leader), Denise Ellis and Shawn Murakawa (JIMAR Associates) went to Halawa valley, Molokai on Wednesday, September 25, 1996. The primary objective was to search for evidence of possible hawksbill hatching in the area of the public beach, as a previous report of hawksbill hatching had come from the 'private' beach. The beach was scanned for possible hatchling tracks, stranded hatchlings, or nests with hatchlings at the surface. One lone hatchling track was sighted at the beginning of the beach. Some pits were examined without luck.

Near the far end of the beach (approx 1600 hrs), a number of hatchling tracks (possiblly 6-10 individuals) were seen by GHB and DME emanating from near the brush area going down toward the ocean. (GHB and DME were talking about seeing only bird tracks, then looked at area they were standing. DME asked are those bird tracks? GHB 'no those are hatchling tracks!!' [yee-haaa]) The area where the tracks seemed to start was examined carefully, by brushing the top 1-2" of sand away. After about a minute of searching DME noticed the sand moving in the area she was searching and two hatchling heads popped up. Hatchlings were counted as they emerged, and a total of 30 hatchlings came out on their own and scurried their way down to the ocean, the last one with a little assistance from DME as it seemed stuck on a root. This was conveyed to GHB, after further examination of the nest another 39 hatchlings were found underneath a layer of unhatched eggs. A total of 69 hatchlings made their way to the ocean, 2 hatchling were found in the nest dead and 94 eggs were counted that didn't hatch.

Denise- Before I leave on Tuesday COB will you please compose a draft paragraph or two describing in your words our encountering the hatchling tracks and hatchlings at the surface. For my own internal use, so don't send much time on it. Thanks, geo.

Moloka'i

The Friendly Island

MOLOKA'I VISITORS ASSOCIATION
553-3876

ABOUT MOLOKA'I

Moloka'i is a tropical haven a lifetime away from the hectic, modern world. It's a place where you can swim at the base of a cascading waterfall, surrounded by a lush, fruit-laden valley populated by ancient Hawaiian temples and dwelling sites. Wind your way down on foot or by mule to the isolated Kalaupapa peninsula and hear the compelling life story of Father Damien and the Hansen's disease patients he cared for. Hike among endangered coastal plants or catch fleeting glimpses of rare native birds. Scuba or snorkel off a 28-mile pristine barrier reef. Moloka'i: Unhurried. Unchanged. No traffic lights. No buildings taller than the coconut palms. Come enjoy yesterday's Hawai'i—on today's Moloka'i.

decaliter	(Dl)	[illegible]	pecks
hectoliter	(h)	2.84	bushels

CAPACITY, LIQUID

milliliter	0.27	fluidrams
centiliter	0.338	fluidounces
deciliter	0.21	pints
liter	1.057	quarts
decaliter	2.64	gallons

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