

Book 2

LIBRARY OF

GEORGE H. BALAZS

FPS
1978

1978

2 of 2

5-21 JUNE

BALAZS (BOB) 395-6409

UNIVERSITY OF HAWAII
Hawaii Institute of Marine Biology
Crescent Island - P. O. Box 1346 - Kaneohe, Hawaii 96742

58

10 MAY 2002

TC-29 ✓

TAG NOS - 2653 LFL ✓
2654 RFL ✓S - $36\frac{1}{2} \times 27\frac{1}{2}$
a2.7 ✓ b9.9 ✓C - $38\frac{5}{8} \times 36$
a8.1 ✓ a1.4 ✓

DATE/TIME	AREA	Activity	REMARKS
6/13 ¹¹¹⁴ 0900h	12 ✓	N ✓	
6/13 0445	3 ✓	N - lay? ✓	Right next to TC 27 [Apparently did not lay]
6/14 0200h	6 ✓	N ✓	
6/19 1200h alar at 1830h	N2P ✓	B ✓	

6/8/81

East-N ✓

NO. 117

LFL
RFL

TC-30

TAG NOS-

2758 RFL

59

10 MAY 2002

NIGHT 4

S-

PC-

DATE/TIME	AREA	Activity	REMARKS
6/13 ^{Tues} 0030-0230	TO	B	Laying on Beach - flippers close to body
6/14 1600h	TO	B	
6/17 ^{Sat} 2300h - ^{SUN} 7030	SEP	B	ragged - did not return to water

NO. 106

60

10 MAY 2002

TC-31 ✓

S-37 x 29
94.0 ✓ 73.7 ✓

TAG NOS -
2670 RFL

C-

DATE/TIME
6/13 2345

AREA
3 ✓

Activity
N-Lay

REMARKS
wet when sprayed TC31.

DATE/TIME
6/14 ^{wed} 0
6/14 ✓
6/20 ✓

TC-32 ✓

TAG NOS - 10 MAY 61
2676 ✓
7826 ✓

S - 34 1/2 x 26

87.6 ✓ 66.0 ✓

C - 36 3/4 x 34 1/2

93.3 ✓ 87.6 ✓

DATE/TIME	AREA	Activity	REMARKS
6/14 ^{wed} 0200h ✓	SP ✓	N ✓	LFL heated ✓
6/14 ^{0500h} ✓	SP ✓	N-Lay ✓	likely one of
6/20 ^{Tues} 1530h ✓	Whale-Skate ✓	BASKING ✓	South EAST shore - PAINT almost in perfect condition - RITL 1/2 off - very FRESH - Applied 7826

62

TC-33 ✓

10 MAY 2002

TAG NOS - 2674 ✓ RFL ✓

2675 ✓ LFL ✓

S - $35\frac{5}{8} \times 27\frac{1}{2}$

90.5 ✓

69.9 ✓

C - $37\frac{3}{4} \times 35\frac{1}{2}$

95.9 ✓

90.2 ✓

DATE/TIME	AREA	Activity	REMARKS
6/14 wed 200 ✓ 413	S point ✓	N ✓	on heated LFL
6/14 0500 ✓	S point	N-LAY	
6/16 0600 ✓	14 ✓	⊙ AT water's EDGE (?)	
6/18 0300h - ✓ sun ✓ 417	4-5 ✓	N	
6/18 1830h ✓	NEP ✓	B	

FLI
FL

10158

TAG NOS

~~2742 LFL~~ ~~2672 RFL~~ 63
~~2743 RFL~~ ~~2673 LFL~~

10 MAY 2002

NO. 165

TC-34 /
S - $37\frac{1}{2} \times 29\frac{1}{4}$
37 $\frac{1}{2}$ 29 $\frac{1}{2}$
95.3 / 74.9 /

C - $39\frac{1}{4} \times 36\frac{1}{2}$
39 $\frac{1}{4}$ x 36
99.7 / 91.9 /

DATE/TIME	AREA	Activity	REMARKS
6/14 wed 0200h	4 /	N-LAY apparently not	RFL Healed
6/14 1600h	NEP /	B /	Knott and small TMR RFL
6/17 SAT 0030	3 /	N-LAY	2672^{off} and 2673^{off} not clinched - removed
6/20 Tues 1200h	NEP /	B	

TC81 / 6/82 / East-N

64

10 MAY 2002

TC-35

TAG NOS -

2694

2677 LFL
2694 RFL

S - $38 \frac{5}{8} \times 28 \frac{5}{8}$
98.1 // 72.7 //

C - $41 \frac{1}{2} \times 36 \frac{1}{2}$
105.4 // 92.7 //

DATE/TIME	AREA	Activity	REMARKS
6/14 0500	SP1	N - LAY	Apparently not
6/15 0230	3	N - LAY	In sand - moderate low to water - not serious
6/81	East-N	NO. 120	

~~LFL~~
~~RFL~~

TC-36

TAG NOS -
2666 LFL 65
2678 RFL MAY 2002
C- 36 1/4 x 32
921 81.3

S- 34 1/4 x 25 3/4
87.0 65.4

moderately

DATE/TIME	AREA	Activity	REMARKS
6/14 wed 0200h	Spout	N	Tagged to at SP Basking - see page 90 injury - part of plate missing in 2nd-3rd Lateral right
6/14 0500	SP	N-Lay	

6/81 East-N NO. 118

66

10 MAY 2002

TC-37

TAG NOS.

2680 LFL

2681 RFL

S-35³/₄ x 28¹/₂

90.8

724

C-37¹/₄ x 36¹/₄

94.6

92.1

Date/Time

AREA

Activity

REMARKS

6/14 0500h

6

N

beside two seals
LHL¹/₂ off healed

6/14 0730h

6

N-LAY

RFL²/₃ off healed

6/14

WED
1600h-1800h

SEP

B

many photos on Roll 4 Ektachrome
400.

6/19

MON
1200h

SEP

B

also at 1850h

Date
6/5
6/6
6/16
6/17
6/20

TC-38

TAG NOS -
~~2727LFL~~ 67
~~2728RFL~~

10 MAY 2002

ENT. #232

S - $36\frac{5}{8} \times 27\frac{3}{4}$

C - $38\frac{3}{4} \times 34\frac{3}{4}$

98.4 / 70.5

90.4 / 88.3

Date / TIME	AREA	Activity	REMARKS
6/15 / 0100h	9	N	wet when sprayed
6/16 / 0030	17	N-LAY	
6/16 / 1300h - 1500h	NEP	B	
6/17 / SAT 1100h	NEP	B	
6/20 / TUES 1200h	NEP	B	

chrome

68

TC-39 ✓

TAG NOS-2696 LF

10093

2697 RFL

10 MAY 2002

S-37 1/2 x 28 1/4
95.3 ✓ 71.8 ✓C-39 1/4 x 38
99.7 ✓ 96.5 ✓

DATE/TIME	AREA	Activity	REMARKS
6/15 0230	S point ✓	N ✓	
6/15 0600	S point	N - Lay (L?) apparently not	RHL 1/3 missing -
6/17 2300h	S point	N ✓	(LHL HEARL)
6/19 1200h Tues	NEP	B ✓	
6/20 0030h	S point	N ✓	5 yards in front of tent LHL is scooping sand and throwing it across to the right; - RHL work in normal manner.

6/81 East-N

no. 121

Previously TC 21 - see page 50

~~6 LFL~~
~~RFL~~

TC-40

TAG NOS - 2692 LFL 69

02 JUL 2002

~~40~~ 2693 LFL RFL?

S-38 x 27 3/4

W.5 = 70.5

C-39 1/2 x 35 3/4

100.3 = 90.8

DATE/TIME	AREA	Activity	REMARKS
6/15 0230	SPoint	N-LAY	found tag 2610 not clinched properly - removed floating at surface with another turtle - approx 50 yards out into deeper water.
6/18 ^{sunday} 1430h	Reef extending from Southpoint	OFFSHORE	
	6/16/81	East-N	NO. 119

tent
working

70

TC-41

02 JUL 2002

S-34^{3/4} x 27^{1/4}

88.3

69.2

TAG NOS - 2700LF

2701RFL

C-36^{1/4} x 35^{1/4}

92.1

89.5

DATE/TIME	AREA	Activity	REMARKS
6/15 06330h 0600	5	N	RHL 1/3 miss healed; Appear alive
6/15 0800	5	N-LAY	2 Barnacles on 2nd lat R a small Barn on 1st, 2nd marg E and 3rd marg L. Small TMRs on R shoulder, L shoulder and ventral LFL proximal. Small growth and callouse knot on flap of left flap. Healed slit ventral indicative of tag piercing site. out of webbing on LFL. many skin barnacles on neck - some have fallen off - moisture inside, but could not determine if they were alive.

~~LFL~~
~~RFL~~

TC-42 //

02 JUL 2002

TAG NOS- 71

~~2698/LFL~~

ENT. # 240

~~2699/RFL~~

S-34³/₄ x 28³/₄

90.3 // 73.0 //

C-35⁵/₈ x 34³/₄

~~90.5~~ // ~~88.3~~ //

1/4
~~1/4~~

+ R.
arg R,
oulder,
flap
el
ome
out
live.

DATE/TIME	AREA	Activity	REMARKS
6/15 0330h	7	N	slightly turned-up PC's
6/15 0600h	7	N-LAY	
6/16 1300h FRI	NEP	OFFshore	
6/16 1800h	South point	B	
6/17 SAT 1100h	NEP	B	
6/19 1200h	NEP	B	

72

error

TC 43

02 JUL 2002

S - 35 ³/₄ x 29

90.8

73.7

TAG NOS -

2759 RFL

2760 LFL

C - 38 x 36 ¹/₄

96.5 92.1

DATE/TIME	AREA	Activity	REMARKS
6/15 0400h	15	N	departing
6/15 2200h	6	N	
6/16 0030 FR	5 Point	N	
6/16 0330 SUN	5 P	N	
6/18 0030h	13	N-LAY	
6/20 1530h	Whale Skate	Bask	<p>in with a group of females on East Shore</p> <p>But NO knots felt</p> <p>WEB → LFL</p> <p>PFL heal</p>

TC-44

TAG NOS- 73

02 JUL 2002

2689 RFL

2772 LFL

NIGHT 6

S- 32 1/4

x 26 1/2

C-

81.9

67.3

RFL
LFL
6 1/4
2.1

eks

Date/Time	Area	Activity	Remarks
6/15 THURS 0100h - 0230h	SP	N	wet - did not spray
6/18 SUN 0630	SNEP	N-LAY(?)	ONLY sprayed one side

of
shore

[TC's continued Book 2]
PAGE 3

15 JUNE 78
Thursday
Tried using Enfield 303 bang stick - used two cartridges - no marks on cap - bent lead ends. Tried Aqua-Craft - 1st shell indented cap - did not go off. Stopped two sticks together - 2nd and 3rd shells went off. After first bang, shark still trashed around alot for a short period; No movement after second hit. While shark was still alive swimming, I noted juvenile turtle - 25 yards away (end of East reef) foraging in a normal manner.

Consider that basking turtles may have a site fidelity - calculate sites used by baskers on successive days.

At sandy resting area of Skate, I noted a number of broken, fresh eggs - apparently dug up by a resting turtle.

16 JUNE
FRIDAY

^{early this morning}
Last night a turtle (C2202301?) nested low to the water in area 13. This may be washed out by tides.

Noted Seal w/pup using deep turtle pit for sleeping hole.

Another young frigate bird run over by turtle.
Does tide stage stimulate nesting emergence?

16 JUNE Need - vegetation photos.

FRIDAY

1978 - Consider concept of 'No. Tagged' & 'No. encountered',
1) does not necessarily encompass 'recoveries',
Semantics.

- EASY RIDER July 1978 TRIP LIST -

- 1) Gloves 2) hats 3) backpack 4) short & long scoop nets (FFS)
5) new shirt

At ~ 1400h took boat out to free shark cable - could not see shark - could not untangle. Later I scoop netted a juvenile that has small tags on it. Where has he been all this time? With all the expeditions and observation, he should have been caught. Possibilities 1.) Didn't catch - probability factor 2.) Turtle has been someplace else

- Tide Gauge enclosure measures ~ 31 large faces.
(~ 93' long?)

- Observed adult turtle swimming close to shore in very strong current (south side of Sand Point) - watched alternate use of front limbs.

When juvenile released, observed giant swimming strokes - top strokes looked like flippers touched one another.

- Observed protective frigate by tent bite SA seal on nose.

116 JUNE
78
FRIDAY

ON KVAI radio at ~7PM heard news story about Leo Ohai tired of waiting for Federal study - want to fish inside reef at French Frigate Shoals - wildlife sanctuary for "Hawaiian monk seal, green sea turtles, and certain sea bird species". He knows that school of Mo'i and Ulua are abundant in Shoals; has spent \$40,000 to equip his boat to make 500 mile trip. He wants to go in so that case can go to court.

17 JUNE 78
SAT

Note - that a considerable amount of energy is expended in crawling ashore, digging false nests, etc. This seems to be a waste - what is the purpose - consider reported speed of nesting of other sea turtle species.

A fair amount of Turbinaria has washed up on East, particularly along the South shore.

Noted that shearwaters may be rolling eggs in and out of burrows.

Took photos of several plants ~ 11AM then proceeded TO WHALE-SKATE - Collected glass balls for USCG - Did not see any juvenile turtles in West Cove - where are they all? - no recruitment to this area! - Saw a few gray reef

17 June
1978
SATURDAY

shark like previous visits. Tagged and photographed basking turtles. Noted

- 1.) TC 4 ♀ close to shore
- 2.) A female with scum on shell and right front limb freshly bitten off - may possibly be the same one in photo by Tom Knight - turtle resting on Tern
- 3.) Several males with very seriously bitten limbs - why don't I see any males with healed areas? - They get bitten again?
- 4.) Copulating turtles close to shore with three males circling around and occasionally biting - observed for about 20 minutes many photos - both confirmed to be males when they separated.
- 5.) Leopard rays near shore - group of 3-45 - same frequently seen off of East Island.

TO TERN ~ 3 PM. Had shower, egg onlett and fried bacon. Replaced ching (bass) on wake-shift steering tiller.

Proceeded back to East via Round - must count seals. - Used lookbox to undue cable of shark gear. Found cable to have bitten heads of two Tiger Shark heads estimated 8-9' length, plus hind portion of what was probably a gray reef (not bait). Retrieved some tiger teeth. Reset shark

17 JUNE 78
SATURDAY line. Noted that very large diameter log is still on sand point. This washed in just before sunset last night.

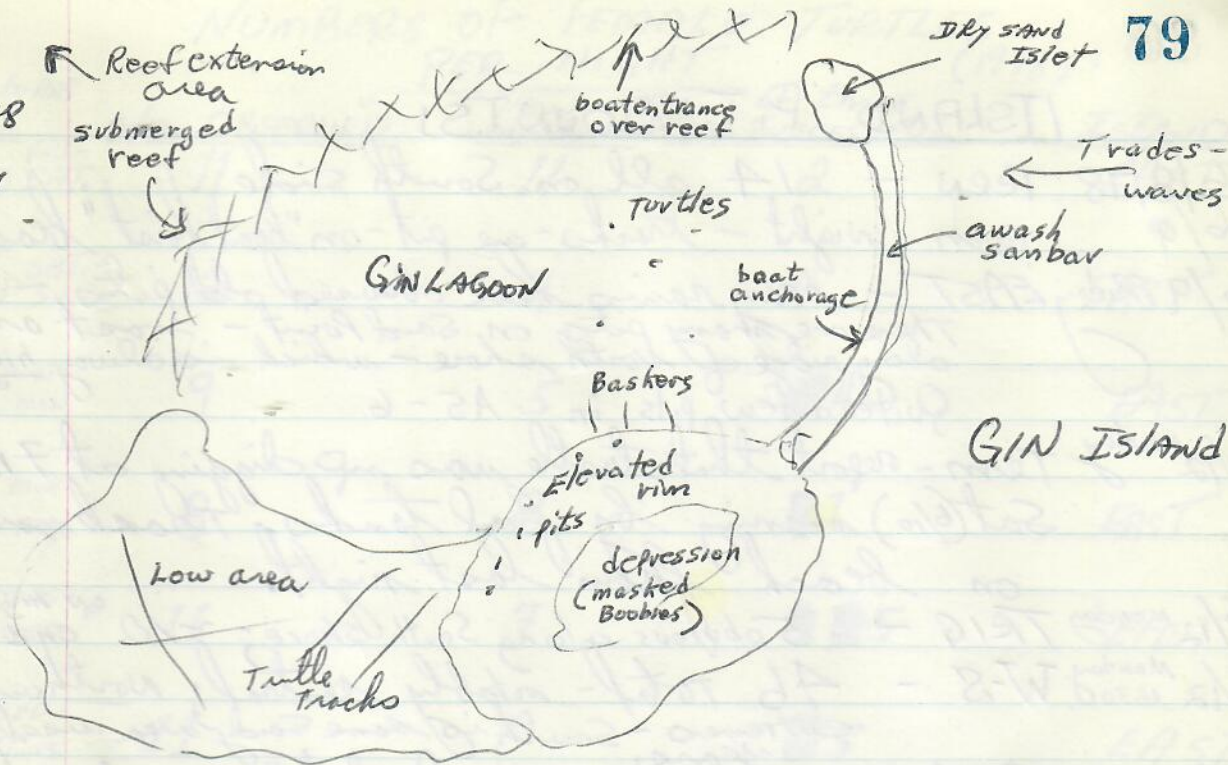
June 78
Sunday

18 JUNE 78
SUNDAY Noted two large porpoises ^{together} on two occasions - 1) several days ago ~ 1800h just off reef in direction of Laterouse; 2) two nights ago while trying to retrieve shark gear - only ~ 15' water.

Noted last night that there is a considerable difference in threshold of pain between nesting turtles some barely move when tagged - other give a violent reaction.

At 2:15 PM proceeded to GN ISLANDS. Entered semi-sheltered lagoon on west side. Noted 10 turtles in area - 4 on beach, 6 in the water. Set anchor on awash sandbar which extended from main part of island to small sand islet. Noted lots of masked boobies with young - counted 45 young. Gin has a higher northerly section with a depression. The adjacent section extended towards Little Gin is much lower. Turtle pits (10-15) were noted on the elevated rim of the northerly section. A rough sketch map of GN follows -

18 June 78
Sunday



Proceeded to Little Gin - Island shape same as previous trips - that is, main body w/ sandbag extension.

Counted only 25 Black-footed albatross young, and 12 Masked boobie young.

Noted droplets of tar along East "wave" shore. Turtle pits are also restricted to elevated rim areas. Very fine sand where bar joins dry island (corner).

Nesting of Gin Islands appears greater than during the past several years.

Caught blue (blue) upon departure. Noted "green" pinnacles during return trip - It would be interesting to dive these spots. Baited shark line with tail half of fish. [CONTINUED ON PAGE 113]

ISLAND PIT COUNTS

- 6/8/78 TEEN - 14 all on South side
- 6/9 Tern - night - tracks - ge pit - on "boat hoist" beach.
- 6/9 Friday EAST - heavy rains have obscured old pits -
 There are many pits on Sand Point - most are
 along ridge of South shore - which is always higher.
 Quite a few pits in A5-6
- 6/12 Monday Tern - report that turtle was up digging at 7 AM
 Sat (6/10) morning by fuel tanks. Track noted
 on beach from last night.
- 6/12 Monday TRIG - 5 obvious along South shore; ~10 ^{on high NE} end
- 6/12 Monday 1630 W-S - 46 total - notably central. North and South
 extremes - South is same sandy area used of other
 years.
- 6/18 SUN 1300h GIN - 10-15 pits on elevated "rim" of northerly
 section of island.
- 6/18 SUN 1400h little GIN - EAST side rim - 6 South and West Rim - 43

NUMBERS OF FEMALE TURTLES
PER NIGHT (1978)

81

Night PM to AM DATE	No. OBSERVED	NEW OBSERVED	NEW SUCCESS	of those NO. SUCCESSFUL	ISLAND
6/9-6/10 FRI-SAT	11	11		2	EAST
6/10-6/11 SAT-SUN	12	4		4	EAST
6/11-6/12 SUN-MON	9	5		4	EAST
6/12-6/13 MON-TUES	8	8		1	EAST
6/13-6/14 TUES-WED	11	7		5	EAST
6/14-6/15 WED-THURS	11	7		5	EAST
6/15-6/16 THURS-FRI	11	7		6	EAST
6/16-6/17 FRI-SAT	4	1		3	EAST
6/17-6/18 SAT-SUN	12	7	6	9	EAST
6/18-6/19 SUN-MON	7	5	3	5	EAST
6/19-6/20 MON-TUES	6	4	1	1	EAST

66 Turtles in 11 nights
6 per night

Juveniles - 6 captures -

3 of which were longer term recoveries

ALL AT East Island - No juveniles sighted at ~~W-S~~

At East, 5 recoveries (4 w/TC + 1 unidentified
 FWS tag on basker) from previous
 years were found on 79 (66 TC's
 + 13 basking) turtles (6.3%)
 3 HMB's out of 79 = 3.8%

Percent for cycles:

02 JUL 2002

Adult TURTLE TAGGINGS
(other than nesters)

DATE	TAG NOS.	CURVED	STRAIGHT	Island-REMARKS
6/10/78 SAT 1830	2582 RFL	MALE BASKER	Area 11; left trailing raw	6/11 1330 715 BASKING
6/10 1830 ①	2583 RFL	Female basker	point; by BLACK	6/12 1700h BASKING ON SPURT EAST
6/10 0100	2576 LFL-	Male basker	TC 5 see page 34	trailing edges raw. EAST
			6/10 & 6/16/80 - EAST (new 3582)	
6/11 SUN 0200	2586 RFL	Male basker	TC 18 see page 47	NO raw areas EAST
6/11 SUN only 5 PM	2593 RFL	male basker	NO raw areas	EAST SEP
			see "recovers" EXISTING TAG 1233 RFL 6/17 2300h SEP BASK	
6/11 SUN	2592 RFL	male basker	NO raw areas	EAST SEP
6/11 SUN	2594 LFL	male basker	NO raw areas	EAST-SEP
			see "recovers" EXISTING TAG 122 US WILDLIFE RFL	
6/11 SUN 1500h	2595 RFL	Adult male basker	6/13 SEP BASKING	EAST-SEP
6/11 SUN 1500h	2596 RFL	Adult male basker		EAST-SEP
6/11 SUN 1500h	2597 RFL; 2598 LFL	Adult MALE BASKER	BAB BITES - RAW many barnacles of left side	EAST-SEP
			6/15 1300h BASK AREA 8	
6/11 SUN 1500h	2599 RFL	Adult MALE BASKER	photos roll 2 shark bite on right hind limb	Area 8 - EAST NEP
			6/7/80 EAST-BASK (new 3551)	
6/11 SUN 1500h	2600 RFL	Adult MALE BASKER		EAST-NEP
			SAME AS 2659 6/20 1200h BASK AREA 10	
6/12 MON 1530h	2611 RFL (RHL)	Adult female basker	-BLACK	TRIG - note
	2830	6/20 1700h TRIG BASK		
6/12 MONDAY 1530h	2612 RFL	Small female basker	est. sl. 29"	TRIG - note

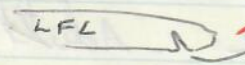
Adult TURTLE TAGGINGS (CONTINUED)

03 JUL 2002

89

DATE	TAG NOS.	CURVED	STRAIGHT	Island - REMARKS
6/12 ^{Monday} 1530h	2613 RFL	Big male Basker end of tail missing, but healed. Small TMPS left shoulder.		TRIG-north
6/12 ^{Monday} 1530h	2614	Adult MALE Basker		TRIG-north
6/12 ^{Monday} 1530h	2615	Adult Female Basker		TRIG-north
6/12 ^{Monday} 1530h	2616 LFL	see "recoveries" ⁷⁴⁷ EXISTING TAG 1214 ^{LF} HMB	Adult Male Basker	RAW areas; did not return when tagged TRIG-north
6/12 ^{MON} 1530h	2617 RFL	Big Female Basker		TRIG-north
6/12 ^{MON} 1530h	2618 RFL, 2619 LFL	see "recoveries" TAG 1220 ^{LF} HMB	MALE BASKER	TRIG-north
6/12 ^{MON} 1630h	2620 RFL	Adult Male Basker	RAW areas	W-S
6/12 ^{MON} 1630h	2621 RFL	Adult Male Basker	RAW areas	W-S
6/12 ^{MON} 1630h	2622 RFL	Adult Male Baskers	RAW AREAS	W-S
6/12 ^{MON} 1630h	2623 RFL	Adult Male Basker		W-S
	2823 LFL	applied 6/20 1530h W/S BASK		
6/12 ^{MON} 1630h	2624 RFL	Adult Male Basker		W-S
6/12 ^{MON} 1630h	2625	CNT. #106 6/84 W-S	Adult Male Basker	[6/15 1600h BASK SEW] W-S
6/13 ^{Tuesday}	2655 RFL	see "recoveries" existing tag 1282 ^{HMB}	Adult Male Basker	RFL 1/3 healed EAST SEP

03 JUL 2002

DATE 1978	TAG NOS.	ISLAND - REMARKS
6/13 Tues 1300	2656 RFL	Adult Male Basker NO RAW SEP EAST
6/13 Tues 1300	2657 RFL	Adult Male Basker All 4 limbs bitten Bad-Bones SEP EAST
6/13	2658 RFL 6/16 1800h Area 9	Adult Male Basker RAW areas EAST AREA 9
6/13	2659 2600	Adult Male Basker 2600 EAST AREA 11
A new tag from this expedition on other flap - could not read 6/14 - BASK AREA 1600h; 6/15 BASK AREA 0330h;		
6/13 Tues 1500h	2660 RFL	Adult Male Basker did NOT RETURN EAST SPURT
6/13 Tues 1800h	2663 6/14 BASK AREA 1600h;	Adult Male Basker Tail bent down - EAST appears stiff NEP
6/13 Tues 1800h	2664 RFL 6/6/82 Lisianski (5839 new)	NO RAW areas Adult Male Basker TAIL short 1 for a male EAST-SEP
6/13 Tues 1800h	2665 RAW	Adult Male Basker EAST SEP
6/13 Tues 1800h	2666 [later made TC 36]	Adult Female Basker plate in center out - flesh gone EAST SEP cartilage exposed
6/13 Tues 1800h	2667 RHL MISSING	Adult Male Basker NO RAW areas EAST-SEP
6/13	2668 RFL	LFL  healed
1800h	2669 LFL 6/17 0000h BASK SEP	
ENTERED NO. 63		
6/14 WED 1500h	2683 RFL	RAW areas Adult Male Basker EAST AREA 13
	2796 LFL	added 6/19 1200h All Bask

[CONTINUED ON PAGE 100]

ADULT TURTLE RECOVERIES

DATE	TAG NOS.	CURVED-STRAIGHT	RECOVERY LOCATION
1978 6/9 Friday	24 ^{see below} size 681	male - Tag on right BASKER distal flipper	Area 3 EAST
6/10 Sat	FWS Tag Right Flap - number down side	Adult ♀ Basking SW tip of SANDPOINT 3-4PM	EAST - SANDPOINT
6/11 SUN ^{1400h}	2411 RF ^{End of tail slightly short - healed}	Adult male BASKER (by Seal) Released 10/13/77 greensurf Beach - from Waikiki Aquarium	NO RAW EAST AREA 7
6/11 SUN ^{1500h}	1233 RF ^{squash?} (APPLIED 2593 RFL) HMB	Adult male BASKER NO RAW areas	EAST SEP
6/11 SUN ^{1500h}	122 RFV US WILDLIFE (2594 RFL) (APPLIED)	Adult MALE BASKER Heavy sand flipping - photos Roll 1 and 2	6/13 SEP BASK EAST SEP
- DID NOT RETURN WHEN TAG 2594 APPLIED - 80.0 - 77.6 SE IS. PIT - 9/20/66 3 1/2 X 30 1/2 "Female" cut injury scab			
6/11 SUN ^{1500h}	958 RF Honolulu RFL	Very LARGE BASKING FEMALE subsequently (TC 636/19 nesting)	EAST - SEP
6/11 SUN ¹⁸³⁰	1282 HMB LFL ^{lock anterior} [squashed together] in center	Adult Male BASKER [applied 2655 RFL] 6/13/78	EAST SEP
6/12 Monday ^{1530h}	1214 LF HMB (2416) (APPLIED)	Adult Male BASKER R1 areas	TRIG - north
6/12 Monday ^{1530h}	1210 RF HMB	Adult Male BASKER 3/4 of head off - scab fresh	TRIG - north
6/12 MON ^{1530h}	943 RF, 944 RFL HMB	Adult Female BASKER 2/17/75 and 1/21/76 TRIG	TRIG - north
6/12 MON ^{1530h}	1220 LFL ^{HMB OFF} [applied 2619 same hole; 268 RFL]	Small Adult Male BASKER	TRIG - north
6/12 MON ^{1900h}	1226 LF HMB + RFL	Adult FEMALE BASKER subsequently (TC 47)	EAST - SANDPOINT
942 RFL Honolulu ^{OFF} 6/20 1700h BASKER - TRIG ON 4/13/76 1226 applied w/out knowing 942 was on this animal.			

- | DATE | TAG NOS. | RF/HIMB | RECOVERY LOCATION |
|----------------------------------|----------|----------------------------|--|
| 6/15 ^{1600h} Thurs
X | 1063 | RF/HIMB | East W-S
Tag looked o.k. |
| | 6/16/75 | NEAST TC73 | |
| 6/20 Tues 1530h
X | 1212 | LF/HIMB (applied 2824 RFL) | NO RAW / RIGHT SIDE Deformed
Adult Male Basker
many recoveries - see sheet
W-S NE point |
| 6/20 Tues 1536h
X | 940 | HIMB (applied 2825 RFL) | NO RAW / Adult Male Basker
short tail - healed
many recoveries - see sheet
W-S NW point |
| 6/20 TUES 1700h
X | 1197 | HIMB (applied 2829) | Adult M Basker TRIG |
| | 2001 | Blue HIMB | 12/3/75 B Tring |
| 6/20 TUES 1700h | 7127 | (applied 2828) | Adult ENTERED NO. 31 Basker TRIG
original date ?? |
| 6/20 Tues 1700h
X | 945 | RF/HIMB | Adult F Basker TRIG
2/17/75 B TRIG
many recoveries - see sheet |

SUMMARY OF TC RECOVERIES

- 6/12/78 1029 ^{OFF} LFL HIMB TC-20 new 2605-2606
- 6/16 X (1226 ^{RF} HIMB 942 RFL HOND (OFF)) TC-47
- 6/16 X 1047 ^{RF OFF} HIMB TC-48 New 2729 2730
- 6/19 X 958 RFL HOND TC-62
- 6/14 - 6/21/75 NEAST TC 62

* - previously recovered

N=3 of East Nesters

JUVENILE TURTLE TAGGINGS

09 JUL 2002 93

DATE 1978 TAG NOS. CURVED-STRAIGHT WT. LOC. ISLAND

6/13 ~~Tues.~~ 1700h 2661 LFL PL - 14 7/8 ^{31.9} TAIL - 3 1/8 7.9 ~~close to shore by TENT EAST IS.~~

2662 RFL C - 19 1/4 x 17 3/8 48.9 - 44.1 -

S - 18 5/8 x 15 47.3 - 38.1 -

STOMACH SAMPLE - (small particles) RETAINED

6/14 ~~WED~~ 1500h 2684 RFL C - 17 1/8 x 15 1/8 43.5 - 38.4 - EAST REEF

2685 LFL S - 16 1/2 x 13 41.9 - 33.0 - 19 lbs.

PL - 13 1/2 TAIL - 2 3/4 34.3 - 7.0 -

Red alga on skin, green on plastron (like collected at KURE), PINK CORALLINE ON SHELL; NO SKIN BARNACLES NOTED. AT LEAST 3 CLEAR LINES OR BANDS IN PLATES. Codium in mouth - NOT RETAINED.

6/14 ~~WED~~ 1500h 2686 RFL C - 16 1/4 x 14 7/8 41.3 - 37.8 - EAST REEF

2687 LFL S - 15 5/8 x 13 1/4 39.7 - 33.7 - 16 1/2 lbs.

PL - 12" TAIL - 3 1/8" 30.5 - 7.9 -

Small amount of red alga on skin; PINK CORALLINE ON SHELL; clear, extended areas on edge of marginals; a few skin barnacles; Codium noted in mouth, - not retained.

HEALED INJURY

9th marginal
10th
Left carapace

JUVENILE TURTLE RECOVERIES 9 JUL 2002 97

DATE TAG NOS. CURVED-STRAIGHT WT. LOC.
 6/14 ~~wed~~ 1130h 2661; 2662 [originally tagged] EAST IS. Reef
 78 [4/16 1830h EASTREEF] [6/13 yesterday] flat-off Area V5
 four other juveniles seen

6/14 ~~wed~~ 1230h [2215 OFF]; 2682 RFL applied [again 6/20 1300h EASTREEF]
 1814 applied tie wrap in existing drill hole - 11th MARG R.
 C-17 5/8 x 15 1/2 39.4 East Reef

see Page 91 Book 2

6/25/77 S-16 1/2 20lbs
 S-16 7/8 x 13 1/2 wt-20lbs
 PL-13 1/2 42.9 34.3
 PL-13 1/2 34.3 TAIL-3 1/4 8.3

NO skin BARNACLES; mouth sample taken (Codium & Halimeda) as well as alga scraped from underside of marginals.



large callouse knot where 2215 removed: no replacement tag put at this site. This will check to see how it heals.

6/14 ~~wed~~ 1230h 2266 LFL; [2267 RFL OFF]; 2679-1 st webb R EAST REEF
 1023 knot on right flap where 2267 removed
 see p55 Book 1

all of these incised tags were overgrown with (possibly) coralline, polysiphonia, etc.

7/2/77
 C-15 7/8 x 13 7/8 40.3 35.2
 C-15 3/8 x 13 7/8 39.1 34.9
 S-15 1/4 x 12 1/4 38.7 31.1 15lbs
 S-14 3/4 x 11 7/8 37.5 30.2 wt-13lbs
 PL-12 1/8 30.8 TAIL-2 5/8 6.7

skin barnacles present - self-photos by tent with 2215-2266
 Stomach tube sample - Codium.
 Tag 2267 had several types of algae growing on it, including Codium sample retained. Tag 2266 scraped clean.

DATE

TAG NOS.

CURVED-STRAIGHT

WT.

Location

6/16 Friday
1600
1978

516 LFL

OFF

algal
growth

278 RFL

OFF

new
2735 RFL

2736 LFL

C-16^{11.0}/₈ x 14^{31.8}/₈C-17^{43.2}/₈ x 15^{34.4}/₂S-15^{39.4}/₂ x 13^{33.0}/₃S-16^{41.0}/₈ x 13^{34.5}/₂PL-13^{34.0}/₈TAIL-3^{2.9}/₈

20 lbs

see page 49
Book I

4/14/76

Healing site of both tags healed; both tags rounded.
 Drill hole in 11th marginal right; green alga on
 plastron; no skin barbacles noted; Mouth sample
 looks like a small amount of Caulerpa retained.
 Stomach tube yielded only juice; fine bands in
 lateral plates - too indistinct to count; some
 white scum on shell; small circles/cracks
 o o o
 o o o in laminae.

RAL

Color goldish-brown, like all those listed on
 page 97 and 93.

2702 BAD 1
2744 lost in's and on WS

ADULT TURTLE TAGGINGS

[CONTINUED FROM PAGE 90]

09 JUL 2002

DATE

TAG NOS.

ISLAND - REMARKS

6/14 WED 1600h 1998

2688 RFL

Adult MALE BASKER

NO RAW

EAST - AREA 5-6

6/19 washed ashore SEP copulating w/2808 ♀

6/15 Thurs. 0330h

2695 RFL

NO RAW Adult Male Basker

RHL HEALED

SEP-EAST ~ 0100 - 0330h

6/15 1600h

2703 ENT. #109

Adult Male Basker

EAST END

W-S

2704

LHL missing - HEALED

RAW AREAS

6/15 1600h

2705 RFL

ENTERED NO. 122

Adult Female Basker

W-S

6/15 1600h

2706 RFL

Adult Male Basker

Northeast W-S

6/15 1600h

2707 RFL

Adult Male BASKER

EAST shore W-S

6/19 1400h Bask - W-S

6/15 1600h

2708 RFL

Adult Female Basker

EAST shore W-S

2709 LFL

"Flat looking"

6/19 1400h Bask W-S

6/20 1530h BASK W-S - WEST SHORE

6/15 1600h

2710 RFL

Adult Male Basker

EAST shore W-S

previous at EAST? TMR turtle photos?

TMR eyes (photos 6/12) Mushroom TMR left rear; LHL fresh missing - Responded when I stood up!

6/15 Thurs 1600h

2711 RFL

Adult Female Basker

EAST shore W-S

6/19 1400h BASK W-S 6/20 1530h BASK W-S

6/15 1600h

2712 RFL

Adult Male Basker

EAST shore W-S

6/9/80 W-S Bad nips/bites on front limbs

LHL Healed

6/15 1600h

2713 RFL

Adult Male Basker

EAST shore W-S

6/15 1600h

2714 LFL

Adult Male Basker

RAW areas

EAST shore W-S

Adult Turtle Taggings (CONTINUED)

09 JUL 2002
Island - Remarks

- 6/15 ~~1978~~ 1600h TAG NOS. 2715 ~~RFL~~ Adult Male ~~Basker~~ ~~RAW~~ EAST ~~W-S~~
- 6/15 ~~Thurs~~ 1600h TAG NOS. 2716 ~~RFL~~ Adult Female ~~Basker~~ EAST side
2717 ~~LFL~~ Right side of carapace damaged - fresh crackline past marginals ~~W-S~~ ~~W-S~~
6/8/80 ~~W-S~~ - Bask
- 6/15 ~~1600h~~ 2718 ~~✓~~ Adult Male ~~Basker~~ EAST shore ~~W-S~~
- 6/15 ~~1600h~~ 2719 ~~RFL~~ SEX not recorded Right front limb short-healed ~~RAW~~ EAST shore ~~W-S~~
plus ~~st~~ ~~LHL~~
- 6/15 ~~1600h~~ 2720 ~~LFL~~ Adult Male ~~Basker~~ RAW - Bad Bites on RFL EAST shore ~~W-S~~
- 6/15 ~~1600h~~ 2721 ~~✓~~ Adult Female ~~Basker~~ RHL Deform - claw sticking out EAST side - ~~W-S~~
6/20 1530h BASK ~~W-S~~
- 6/15 ~~1600h~~ 2722 ~~✓~~ ENT.# 265 Adult Female ~~Basker~~ EAST ~~W-S~~
~~104100~~
- 6/15 ~~1600h~~ 2723 ~~LFL~~ Adult Female ~~Basker~~ very narrow RFL ~~healed~~ EAST ~~W-S~~
seen this before?
- 6/15 ~~2200h~~ 2724 ~~RFL~~ Big Male ~~Basker~~ no RAW EAST - Area 12
- 6/16 1800h 2738 ~~RFL~~ Adult Male ~~Basker~~ EAST SEP
- 6/17 ~~SAT~~ 1400h 2745 Adult MALE ~~Basker~~ defanged PCS ~~W-S~~ east shore
- 6/17 ~~SAT~~ 1400h 2746 Adult Male ~~Basker~~ RAW Areas ~~W-S~~ east
- 6/17 ~~SAT~~ 1700h 2747 ~~✓~~ Bent down tail Adult Male ~~Basker~~ NO RAW ~~W-S~~ east

09 JUL 2002

low # SA during pupping season

Adult Turtle Taggings (continued)

DATE	TAG NOS.	Island-Remarks
6/17 SAT 1400h	2748	Adult Male Basker - many serious bites - Probably subsequently again tagged 2821 on 6/20 1530h ws photos - Roll 6 W-S EAST shore
6/17 SAT 1400h	2749	Adult Female Basker W-S EAST shore
6/17 SAT 1400h	2750	ENT. #105 6184 ws Adult Male Basker W-S EAST shore
6/17 SAT 1400h	2751	Adult Female Basker W-S EAST shore
6/17 SAT 1400h	2752	6/20 1530h BASK W-S Adult Female Basker W-S EAST shore
6/17 SAT 1400h	2753	W-S 6/19 1300h Bask - Tag not latched properly. Adult Female Basker W-S EAST shore
6/17 SAT 1400h	2754	Adult Male Basker W-S EAST shore
	2755	- many serious bites -
6/17 SAT 1400h	2756	NO RMO areas Adult Male Basker W-S EAST shore
6/18 SUN 1300h	2773 RFL	Adult Female Basker GIN west lagoon
6/18 SUN 1300h	2774 RFL	Adult Female Basker GIN west lagoon

[CONTINUED ON PAGE 105]

MONK SEAL CENSUS

or
typ 103

DATE/TIME	ISLAND	Adults	SA	PuP	SWP	LYP <small>or green typ</small>	PREG.
6/9/78 FRIDAY 1730	EAST	16 ^{1M} 2 PREG	4	18	6	1	2
6/10/78 SATURDAY 1830	EAST	14 ^{1M}	8	18	6	1	-
6/12 Monday 1515h	TRIG	10 ^{1M}	7	2	1	2?	0
6/12 MON 1630h	W-S	22 ^{3M}	6	14	7	2	-
6/13 Tuesday 1800h	EAST	15 ^{2PREG}	5	17 ^{1 pup always}	5	1	2
6/15 Thurs 1600h	W-S	23	7	13	7	3	1
6/16 Friday 1800h	EAST	23 ^{1M 1 new molt}	8	18	7	3	-
6/18 SUN 1300h	GIN	2	3	4	1	0	0
6/18 SUN 1400h	Little GIN	8	3	3	1	2	0
6/18 SUN 1830h	EAST	22 ^{4M}	3	19	7	2	0
6/19 MON 300h	ROUND	7	0	22	7	0	0

COUNTED FROM OFFSHORE

ADULT TURTLE TAGGINGS
(CONTINUED FROM PAGE 102)

09 JUL 2002

DATE	TAG NOS.	ENTERED NO. 125	ISLAND-Remarks
6/18 ^{SUN} 1300h 1978	2775 RFL	Adult Female Basker	GIN west lagoon
6/18 ^{Sunday} 1400h	2776 RFL	Adult Male Basker ^{RAW AREAS}	Little Gin west Bay
6/18 ^{Sunday} 1400h	2777 2778	↗ side by side Adult Male Basker ^{RAW AREAS}	Little Gin west Bay
6/18 ^{SUN} 1400h	2779 LFL	Adult Male Basker ^{RAW AREAS}	Little Gin west Bay
6/18 ^{SUN} 1830h	2780 RFL 2781 LFL	Adult Female Basker ends of front limbs freshly bitten - Right hind limb badly bitten - bones showing.	EAST AREA 10 falling off. bones showing.
6/18 ^{SUN} 1830h	2782 RFL	Adult Female Basker Right and slightly posterior portion of carapace (margins) deformed - indented - BARS on deformity.	EAST AREA 8
6/18 ^{SUN} 1830h	2783 RFL	Adult Female Basker 2 Large BARS left fore margins	EAST SEP
6/19 ^{MON} 1200h	2793 RFL	"Gold" Adult Male Basker photos roll 8 w/female	A10 EAST RAW
6/19 ^{MON} 1200h	2794 RFL	Adult Female Basker	EAST SEP ENTERED NO. 130
6/19 ^{MON} 1200h	2795 RFL	Adult Male Basker "GOLDISH"	EAST SEP
6/19 ^{Monday} 1400h	2797	Adult Female Basker	W-S east shore
6/19 ^{Monday} 1400h	2798	Adult Female Basker	W-S EAST shore
6/19 ^{Monday} 1400h	2799	" " "	" " "

09 JUL 2002

DATE	TAG NOS.	Island - REMARKS
6/19 Monday 1830h 1978	⑥ 2800 RFL	Adult Female Basker EAST - NEP
6/19 Mon 1830h	⑦ 2803 RFL	ENTERED NO. 131 Adult Female Basker EAST - SEP
6/19 Mon 1830h	⑧ 2804 RFL	ENTERED NO. 166 Adult Female Basker EAST - SEP
6/19 Mon 1830h NO. 83	⑨ 2805 2806	Adult Female Basker EAST - SEP 6/24/80 TC39 EAST-N +3656 TMR around RFL - knotts in both
6/19 Monday 1830h	⑩ 2807 RFL	ENTERED NO. 132 Adult Female Basker EAST SEP
6/19 Monday 1830h	⑪ 2808 RFL	ENTERED NO. 133 Adult Female Copulator - RNZ missing Washed ashore locked together w/ 268807 EAST SEP
6/19 Mon 1830h	⑫ 2809 RFL	Adult Female Basker Prolegs? part of 6/20 1200h BASKER Intertire bag hanging out of area EAST-SEP
6/19 Mon 1830h	2810 RFL 2811 LFL	ENTERED NO. 64 Adult Male Basker deform hump on spine of CARAPACE EAST-SEP
6/20 TUES 1530h	2817	ENTERED NO. 135 Adult Female Basker BIG BARN 2nd LAT Right W-S EAST SHORE
6/20 TUES 1530h	2818	ENTERED NO. 167 Adult Female Basker W-S EAST SHORE
6/20 TUES 1530h	2819	Adult Male Basker W-S EAST SHORE
6/20 TUES 1530h	2820	Adult Female Basker W-S EAST SHORE

[CONTINUED ON PAGE 108]

MONK SEAL TAG RECOVERIES 107

DATE	TAG NO.	STAGE	LOCATION	REMARKS
6/9 1730 Friday	787 ♀	SA - SKINNY	EAST	w/ 1/2 wean pup
6/9	775	SA	EAST	All by log
6/9	Fresh round hole - 4" dia. in Right Belly	SA	EAST	flesh plug still hanging
6/10 SAT.	A1034	SA small	EAST	still looks small
6/11 SUN	757	SA	EAST	looks a little thin
6/11 SUN	905	SA	EAST	w/ another seal w/ blk on coat Photos Roll 2 + Roll 1BW Area 12
6/11 1830 SUN	906 - 757	SA's	EAST	left eye injury together in Area 15
6/12 1630h Monday	212 -	A	W-S	didn't see tag looks at lot bigger (knows me)
6/12 1630h Monday	794	A BIG	W-S	
6/13 Tuesday	Glassy Bulging LEFT EYE	SA - A (♀?)	EAST	Area 15 [Barnacles collected] SHIVER
6/13 Tues 1600h	906	A	EAST	with a female
6/15 Thurs	775	A (?)	W-S	
6/15	∩	A	W-S	"horse-shoe" Scar
6/16 Friday	905	SA	EAST	hurteye
6/16 1800h	GREEN and EMACIATED ♂?	A	EAST	
6/18	905	SA	EAST	emaciated hurteye
6/19 MON 0600h	757	SA	EAST	look a bit thin
6/20 TUES 1530h	A 794	A	W-S	very large
6/20 TUES 1530h	A 672	A	W-S	Big male w/ a female
6/20 TUES 1530h	A 775	A	W-S	Big! measured 82" long
6/20 TUES 1700h	LARGE ADULT SEAL w/ RIGHT HIND MANGLED -	Almost completely OFF - FRESH	TRIG	
6/20 TUES 1700h	SEAL w/ PUP	shaped scar on Hind limb.	TRIG	

ADULT TURTLE TAGGINGS
(CONTINUED FROM PAGE 106)

DATE	TAG NOS.	ISLAND-REMARKS
6/20 TUES 1530h	2821 LFL	Adult Male Basker many bites on all four limbs TAG of RFL, - PROBABLY SAME as 2748 W-S EAST Shore
6/20 TUES 1530h	2822	Adult Male Basker Several med-large TMP- and bad bites W-S EAST Shore
6/20 TUES 1530h	2824 RFL	(existing tag 1a12 HMB) see "Recoveries" Adult Male Basker NO RAW W-S NE POINT
6/20 TUES 1530h	2825 RFL	(existing tag 940 HMB) see "Recoveries" Short tail-healed Adult Male Basker NO RAW W-S NW POINT
6/20 TUES 1700h	2829 -	(existing tags 1197 HMB 2001 Blue) see "RECOVERIES" Adult M Basker TRIG
6/20 TUES 1700h	2828	(existing tags 7187 RFL) see "Recoveries" Adult Basker TRIG

DATE	Time	Temp Cent.	LUNTIE PROJECT REMARKS
12-9-77	1615	26	Sunny CALM
12-77	1200	25	Cloudy wind 10 TO 15 KNOTS
16-77	1000	24.5	Cloudy " 15 TO 20 "
26-77	1115	25	Sunny CALM
30-77	1015	24	Cloudy 10-15
1978/1-2	1125	24.5	Sunny 5-10
1-6	1030	25	Sunny CALM
1-9	1115	25.5	Sunny
1-13	1030	24	Sunny WINDY 15-20
1-16	1130	24.5	" CALM
1-20	1000	24	" "
1-23	1600	25	" CALM
1-27	1600	25	" WIND 10-15
1-30	1200	25.5	Sunny CALM
2-3	1100	24	Cloudy "
2-10	1000	24.5	Sunny 10-15
2-13	1230	25	Sunny CALM
2-17	1430	24	Partly Cloudy 5-10
2-24	1130	24.5	Cloudy CALM
3-3	1330	24	Cloudy 5-10
3-10			
3-13			
3-20	1300	24.5	Sunny wind 5-10
3-25	1130	24	RAINY wind 10-15
3-31	1300	24	Partly Cloudy 15-20
4-3	1300	25	Sunny 5-10
4-7	1000	23	Overcast 15-25
4-14	1000	23	Cloudy RAINY
4-17	1300	25	Clear CALM
4-21	1100	24.5	Clear CALM
4-24	1000	25	WINDY Cloudy
4-28	1130	23	Cloudy wind 15-20

DATE	Time	Temp	Remarks
5-1-78	1300	24.5	RAINY Overcast WIND 5-10
5-5-78	1130	25	Clear CALM
5-8-78	1330	24.5	Cloudy CALM
5-12-78	1430	26	Clear CALM
5-15-78	1400	25.5	Overcast RAINY WIND 15-20
5-19-78	1100	24	RAINY WIND 20-25
5-22-78	1230	24	RAINY CALM
5-26-78	1300	25	RAINY 10-12
5-29-78	1000	26	Cloudy 5-10
6-2-78	1200	25.5	RAINY WIND 5-10
6-5-78	1400 1400	26.5	WIND 10-12 PARTLY Cloudy

CLIMATIC

111

DATE	SEA WATER	ISLAND	GENERAL
6/7/78 Wednesday		FFS	moderate to strong Trades
6/8 Thursday		FFS	strong Trades
6/9 Friday	air temp in tent at night 22.8°C	FFS EAST	Hard Rain, dark clouds, but cleared some ~ 3 PM
6/10 Sat.		EAST	Hard RAIN started at ~ 5 AM RAIN most DARK clouds - lightning - of DAY
6/11 SUN.		EAST	AM - cleared, partly cloudy, some rain Showers PM; Hot, bright sun later PM
6/12 Monday	TO TERN	EAST	AM - nice, shower near sunrise Rain ~ 1 PM, calmer in afternoon - SWIN hard rain ~ 6:30 PM
6/13 Tuesday	25.8°C Trades up - up-down cycle	EAST	RAIN shower during early morning - intermittent RAIN and sun, HARD RAIN at noon, cycle continued all afternoon Hard rain between 10-11 PM.
6/14 wed.	light - moderate trades	EAST	HEAVY RAIN between ~ 9 ^{AM} - 12 mid night; Hot and sunny during daytime
6/15 Thurs.	TO TERN 25.5 - 26.0°C	EAST	SKY clouds - early morning RAIN - intermittent RAIN over Shoals all day
6/16 FRI		EAST	Finally - only a very brief rain AM; STRONG Trades all day - Rain showers LATE AFTERNOON.
6/17 Saturday	TO TERN 25.5 - 26.0°C	EAST	NO RAIN AM. AM trades seem down. PM trades up - then SE - then EAST NE - moderate. NO RAIN.
6/18 Sunday		EAST	NO RAIN AM - TRADE down, Clouded up in afternoon -
6/19 Monday	TO TERN almost 26°C	EAST	A few Rain showers AM - Dark passing cloud - some cleared in afternoon - trades up to moderate - brisk.
6/20 Tues		EAST	A few showers AM. South swell up a little TRADES DOWN IN AFTER NOON
6/21 WED		TERN - FFS	RAIN AT Night - H ₂ O ON RUNWAY TRADES STRONG BY 9 AM - LOTS OF CLOUD COVER.

- TILDEN will continue SEA WATER RECORDING
 \$30.00 check written to him on Whitlow/Balazs account

18 JUNE 78 Consider hatching dispersal from the standpoint
SUNDAY differing island locations at FFS (i.e. Gin Island current
right toward Lakemouse).

While retrieving shark gear using lookbox, I observed acromial process (front limb girdle) of small juvenile turtle laying on the bottom - apparently from stomach contents of one of the two Tiger Shark hooked.

Are female nester tag recoveries averaging larger than new taggings?

Concerning monk seal pup size, which has the greatest effect - nursing time or genetics?

Fat per sec would seem irrelevant, as they just lay on the beach at weaning and burn it up. Turtles leave from basking after sunset - do they have good night vision (yes!) or is the resting site(s) only a short distance away?

19 JUNE 78 Noted that turtles frequently crawl a long
Monday distance on land (i.e. full length of Sand Point).

Could tissue damage stimulate corrosion - note 958 Honolulu, no apparent corrosion. Could old style pliers inflict less tissue damage (i.e. pinching/crushing)? Note "Calbouse" appears to be an inaccurate term for knot in flap.

One night basker recorded at SEP 6/18 - 6/19.
- Heard on KVAI - Meeting of W. Kauai Commercial and Sports Fishing Club Port Allen Club House -
7:30 AM 20 JUNE 1978.

19 JUNE 78
MONDAY

Note that adult Black-footed albatross get lighter as season progresses. Feather in head whiter.

- 12:30 PM TO ROUND - anchored offshore to count seals - mylet still gone. Proceeded to Whale-Skate - went ashore for a short time to top some basking turtles - again, no sign of feeding juveniles in West Cove.

Proceeded to TRIG offshore - saw only four basker - possibly due to rising high tide. Noted that sandbar and islet are GONE! Also log is gone.

Proceeded to Tern where I had a late lunch (pork chops, salad, applesauce, ice cream) 4 PM. Slop/wave-wash by hoist was bad.

BASKERS
Note that tag nos 2707, 2711 and 2709 females were recovered consecutively on W-5 - they were originally tagged one nest to the other. Do baskers have regular basking partners - conspecific recognition and preference? Recall Nicklin Tern Is. recoveries.

SEAL NOTES: observed seal "rolling" down beach - apparently a regular means of locomotion. Observed a seal offshore reef to the south of East ~~Is~~ come way out of the water, apparently for vision enhancement; how do seals deal with problem of good vision in and out of the water.

[CONTINUED ON PAGE 116]

DATES

Tuesday 5/16 - 6/11

Monday 6/12 - 6/13

13 TUES

4 wed

14 - 6/16

15 - 6/17

SUN 18 - 6/21

PHOTO LOG

115

DATES ROLL FFS

- ~~Saturday~~ ^{Sunday} ~~6/10~~ - ^{6/11/78} **1** ASA 64 EL - 6/10 - Seal w/pup 551-3, 4105; - 105 Booby and chick - seal pup
6/11 - Sooty Terns in flight - WA; Basking Turtles
ON SAND POINT 105; South Point baskers and seals.
- ~~Sunday~~ ^{Monday} ~~6/11~~ **2** ASA 64 EL - SA 905 COOKIE CUTTER EYE; BASKERS AT NEP; MALE 2599
with Bites; seal-pup Turtles at SEP; Gold male basker; seal
w/pup together (last on Roll-105).
- ~~Monday~~ ^{6/12} ~~6/13~~ **3** ASA 64 EL - WA of Tring 1-3; Copulating Turtles; BASKERS along
EAST side of W-5; Close-up TMR and turtle that crawled to me;
BASKERS AT South Point; 2 males in Area 11 (last on
Roll); ON THIS ROLL - photo of ♀ w/BARNES 1st
LAT. RIGHT AND OTHERS HIND QUARTERS; ALSO
#32-33 ♀ w/R and H BITTEN.
- 6/13** Tues Black and White ^{PX125-36} **1** BW - Glass-eye seal w/BARNACLES; BASKERS at SEP NEP;
Booby and chick; seal; frog, seal; TC 25.
- 6/14** ^{MORNING} wed **4** Ektachrome ASA 200 - 7:30 - 8 AM - Noddy Tern, Boobies; Albatross;
TC 37 nesting, returning (seals); Red-tailed Tropic (last on Roll)
- 6/14** - ^{6/16} **5** ASA 64 EL - new w/turtles in front of tent; Glass eye seal
w/BARNACLES; Seal w/Brand new pup; 6/16 - 2 pups and seals;
male Baskers - SEP.
- 6/16** - ^{6/17} **6** ASA 64 EL - vegetation on East; FRIGATE birds; noddy by egg; BASKERS
on W-5; Badly Bitten Males; Copulating Males; seal with
Liquor bottle.
- 6/18** - ^{6/21} **8** ASA 64 EL - 6/19 ATTACHING FRIGATE; veg; Basking Turtles; seal
by Baskers; Turtle w/BARN on nose; 6/20 Baskers
(105 ^{MM} not coupled properly - several should
be too dark); close ups of polaroid;
Beechcraft 18 landing.

19 JUNE 78
MONDAY

Upon return to EAST FROM Tern I checked shark line - $\frac{1}{2}$ rotten ulua baited before departing gone. Barely started boat with jig line out when I caught an ulua. Baited whole.

At 1830h I noted two layers (~18"-20" juveniles) feeding on East reef. Tried twice, but they got away. Noted that large log by sand point is now gone.

Note that there is a shallow channel entrance to SEP (to the west); should be able to spot this in an aerial photo.

20 JUNE 78
TUESDAY

Note - that during bright moon nights turtles may see better and therefore react more to my presence.

Consider LAND USE expression for island area use by nesting turtles.

Note - that no turtles tried to nest under my tent during this expedition.

Terrestrial locomotion of male same as female? - appear so. Interesting thought.

Observed gular expansion - muscles control this - draws in air - for respiration or chemoreption?

If many of ^{the} nesters I am seeing were not here during previous seasons (high recruitment) how do they know how and where to bask - why bask? learned or innate?

20 JUNE 78 At 12-1300h, reef water appeared too shallow
 TUESDAY to allow access into SEP; however turtles
 can go around South Point.

Note "sand pocket" in reef flat extending
 to the south of South Point.

Noted turtle ♀ again with large baroque
 on nose - this turtle must feed at a location
 where it doesn't hit rock or coral with
 its nose.

Beaching of turtles during daytime for basking
 purposes would appear to be the same as
 night emergence for nesting - Daytime presents
 a far better opportunity for observations.

Observed a female emerge at SEP
 and shortly thereafter "yawn".

Observed Portuguese Man-of-war float in over
 EAST REEF.

Noted TAR globules on North side of Island.
 At ~1500 Proceeded to Whale & Skate
 after packing up all gear. Shark line
 had a 5-6' gray-belly eaten out; by
 other small shark or possibly MACKSEAL?

Tagged basking turtles at W.S.

Noted that some males seem to have
 a far larger diameter tail at the base -
 is this correlated with shell length?

Noted tar globules, along East shore of
 Whale-Skate - also SNARL OF LINE,
 MANY BOTTLES (GLASS AND PLASTIC), ALL KINDS
 of drifting trash (neons, light bulbs, etc.).

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20 JUNE 78
TUESDAY

Proceeded to Trig - Tugged basking turtles - observed 5-6' gray reef foraging very close to shore - beach itself almost entirely on one occasion. at ~ 1730 proceeded to TERN - motor around north shore, but did not see small turtles. Came in to Tern through main channel remembering that Tim Harris filled out sighting report forms of small turtles in this area. Hauled out boat ~ 1800h. Stored gear, etc. Set shark line off west seawall.

21 JUNE 78
WEDNESDAY

UP ~ 7:45 - Finished boat preparation for storage - packed rest of gear.

DARRELL LOWERY
(209) 734-1678

1026 LARK
VISALIA, CA

NNNØ - PFG

WAG TTS

Co-Editor of FFS newsletter - SA EDMOND

JUNE 7
WEDNESDAY

"HAWAIIAN SKY TOWERS"

2 JUNE 78

WEDNESDAY

Left a shark book in the custody of Tom Knight - He requested a copy of book on glass balls (interested in manufacturer's address). Mr. K (XO) gave me his digital watch to have a new battery installed. CQ asked for bottle of Jack Daniels.

delivered 7/15/78

Note that Ham antenna behind quarters (on telephone pole) got washed over during February 1978 (saw polaroids taken by Tom Knight).

Consider possibility of Naftel taking personnel - supplies to FFS.

(Hono Advertiser 16 June 78)

Read a letter from Brent to Heppers concerning Leo Chai going to FFS - interested in Purse Seining for Moi and Ulua - reportedly off Shark. Brent will charter Halcy to come out and serve papers. owner of plane is Capt. Robert Justman - he belongs to swimclub - knows Lou Herman.

"HAWAIIAN SKY TOURS"

DEPART FFS aboard Beechcraft 18 at ~ 115 PM. Two other VBCC turn-around personnel aboard (went —?).

Why so many Nakes - 1) MORE ARE ACTUALLY PRESENT
2) MORE ARE VISIBLE - MORE BASKING

21 June 78

WED

Carretti reported turtles, locked together, copulating just off South Tern beach, by clubhouse - washed ashore when they came apart.

Consider - Importance of offshore habitat for nesting beaches, rather than beaches themselves.

Talked to Mr. Stark - Kure LORAN on MARS this morning - No significant turtle or shark activity. Some time ago a 11' and 13' tiger were caught. Stomach contained "bird feathers and fishing net."
- May 3, 78 catch had turtle parts -

BACKNOTE - SEVERAL EVENING AGO A COPULATION ASSEMBLAGE WAS OBSERVED OFFSHORE AREA 10-12 → DOES THIS INDICATE "NEW ARRIVALS"?

Harrison ESTIMATES - 30,000 Sootys on Tern.

Consider letter to National Geographic requesting Leeward Is. issue to Station men.

Backnote during stay at East Island, large school of small "bait" fish stayed around anchored Boston whaler - several were found inside - apparently jumped due to predators.

I.D. by TOM Coney

IAO, Pranesius insularis

[Go TO Page 50 - Book 2] also July ER LOSINSKI Book

Carretti was USCG station "drug officer." Reported that passengers on MACTHIES gave him marijuana - which he then destroyed.

US
F
P.C.
H

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 1556 Piikoi Street, Honolulu, Hawaii 96822
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Capt. **BOB JUSTMAN**
 OWNER

Harry Clarke - Genavco
 847-3467
 923-9614
 Buttonwood - 546-5189

Charlie Knight - Departed FFS ~ 10/13/78
 300 Richards Ave
 Paxton, MASS - 01612
 Brother - Tom

*USCG "Bryan" - Return to
 FFS - 11/1/78
 After two years absence*

*USCG LORAN STATION
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