

KAU - AUG/SEPT 76
MAY 77

(AUGUST 1976 - MAY 1977)
MISCELLANEOUS
TAGGINGS
KURE - JANUARY 1977
MIDWAY - SEPTEMBER 1976

LIBRARY OF
GEORGE H. BALAZS

BALAZS
1976-1977
KURE-MIDWAY
KAU

EXPEDITIONS IN THIS BOOK!

- 8/11 - 8/15/76 - KAU, HAWAII pages 2-19
8/26 - 9/4/76 - MIDWAY (Lin and me) pages 20-32
9/23 - 9/26/76 - KAU, HAWAII pages 34-40
12/8 - 12/9/76 - KURE, MIDWAY, FFS pages 43-45
1/19/77 - 2/1/77 - Kure pages 45-60
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5/4/77 - 5/8/77 - KAU, PUNALUU, KAAHALU HAWAII
pages - 69-86
Tag data - 78-86
- 1485
Midway-HALO
ALMAZAZA
RECOVERY... P2)

VERNON



COMPOSITION BOOK • 9½ IN. x 7½ IN.

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- 10/3/76 - Cary Tiger shark Turtle pages 40-41
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- 10-10/76 JON ORR - hawksbill nest page 41
- 11/30/76 - FG Sand Is. Turtle tagging page 42
Kailua Bay
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Turtle tagging
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tagging
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Juvenile Turtle tagging (crab on tail)
- 5/16/77 - FG Sand Is. Turtle - page 42
tagging (Barber's Point -
spear wound on head)
- 5/18/77 - Hanalei Bay - page 90
Turtle tagging
(Blue Tag)

SMELL TURTLES BREATH - DETERMINE TYPE OF
ALGAE BEING EATEN

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2 KAU, HAWAII

WED

8/11/76 From Dan Cheney - tag recovery #85
made May 31, 1976 at Lillokalani Park
by Al Maza with Hilo Weather Station airport
"about 2 foot green". ^{home} 935-4163 W.S. - 935-55

Notes - "Turtle limu" term

Can an alga spore remain viable
after passing through a turtle?

4 1837 BAD-
1839 Discard
1845

all tags stamped with - Notify Univ.
Hawaii, HMB
Kaneohe, 96744

KAU TURTLE TAGGING
as per wright/LAY

ALL MONSEL TAGS
REMARKS

DATE	TAG NOS.	STRAIGHT	CURVED	REMARKS
① 6/30/76 0830	1836 LFL	19 ³ / ₄ x 15 ¹ / ₂	21 ¹ / ₂ x 18 ³ / ₄	sleeping - cave short tail
② 7/1/76 0630	1838 RFL	29 ³ / ₄ x 23 ¹ / ₂	32 x 29 ³ / ₄	Resting - cave Ninole Cove tail cap - 2" tail plastron - 4"
③ 7/4/76 0615	1840 LFL	28 x 22 ¹ / ₂	29 ³ / ₄ x 28 ¹ / ₄	Resting - ledge Ninole Cove
⑧ 8/10 0635	recaptured coastline NE Turtle Bay			tail - 2 ¹ / ₂ " carapace tail - 7" plastron
④ 7/16/76 0605	1841 RFL	25 x 21	27 x 25	Turtle Bay - R side by Rucks Resting Tail cap. - even Tail plastron - 4"
⑤ 7/19/76 0620	1842 LFL	28 ¹ / ₂ x 23 ¹ / ₂	31 x 29 ¹ / ₄	Punaluu (outside cliff) RHL - pieces missing Tail cap. - 2 ¹ / ₂ " Tail Plastron - 6 ¹ / ₄ "
⑧ 8/12/76 0600 with me	1855 LF	28 ¹ / ₂ x 23 ¹ / ₄	31 x 30	Hole in cliff face
⑥ 7/22/76 0540	1843 RFL	17 x 14 ¹ / ₂	18 ¹ / ₂ x 16	NINOLE POOL LEDGE sleeping tail - 1/2" carapace 3 ¹ / ₂ " plastron

<u>DATE</u>	<u>TAG NOS.</u>	<u>STRAIGHT</u>	<u>CURVED</u>	<u>REMARKS</u>
⑦ 7/23/76 0615	1844 RFL	19 x 15	21 x 19	Swimming Punaluu tail even w/ carapace Plastron - 4"
⑧ 7/27/76 0610	1846 LFL	17 x 15	20 x 18 1/2	Punaluu Harbor entrance - sleeping tail - 1/2" carapace Plastron - 3"
⑨ 7/29/76 0845	1847 RFL	20 x 18	22 x 20	Punaluu - low tide perched ledge
⑩ 8/6/76 0740	1848 RFL	17 x 14 3/4	18 1/2 x 16 1/4	Coastline NE Turtle Bay tail carp - 1/4" sleeping 90' Plastron 3"
8/10/76				Recaptured in area NE turtle bay at 0740 hours
⑪ 8/6/76 0740	1849 RFL	18 1/4 x 16	20 x 18 1/4	Coastline NE Turtle Bay sleeping 30' tail carp 1/2" plast 3"
⑫ 8/10/76 0635	1850 RFL	25 x 20 1/2	27 x 25 3/4	Coastline NE Turtle Bay sleep 30' tail carp 2 1/2" plast 5 1/2"

6 KAU

47.6 cm

38.1 cm

52.0

45.7

Date	TAG NOS.	STRAIGHT	CURVED	REMARKS
⑬ 8/10/76 0705	1851 LFL	$18\frac{3}{4} \times 15$	$20\frac{1}{2} \times 18$	coastline 30' NE TURTLE tail carp $\frac{1}{4}$ " plast 3"
9/14 offport	recaptured by A. Howard in throw net - Punaluu Harbor			
1/25/78	recaptured during night dive in "Horseshoe" - see p 50 - other book			

⑭ 8/10/76 0720	1852 RFL	$23 \times 19\frac{1}{2}$	$23\frac{3}{4} \times 22\frac{1}{2}$	coastline NE Turtle Bay 30' tail carp $1\frac{1}{2}$ " plast 5"
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⑮ 8/10/76 0740	1853 LFL	$19\frac{1}{2} \times 17$	$20\frac{1}{2} \times 19\frac{1}{2}$	coastline NE Turtle Bay 30' tail carp $1\frac{1}{2}$ " plast 4"
damaged rostrals carapace ended with 5th central - reason for damaged tail extension				

⑯ 8/10/76 0750	1854 LFL	$22\frac{1}{2} \times 19$	$24 \times 22\frac{1}{2}$	coastline NE Turtle Bay 40' tail carp 1" plast 4"
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⑰ 8/12/76	1856 LFL	$26\frac{3}{4} \times 21\frac{1}{4}$	$29\frac{1}{8} \times 28\frac{1}{8}$	short tail
<u>HawksBILL</u>				

⑱ FRIDAY 8/13/76 0630	RF 1859; 1858 LFL	$33 \times 25\frac{1}{4}$	$35\frac{3}{4} \times 34$	perched 25" tail carp - $3\frac{1}{2}$ " plast - 9 outside turtle BA7
Abnormal growth distal numerous - fracture?				

Date	Tag NOS	straight	curved	Remarks
① 8/13/76	0910 1860LF, 1861RF	27 x 21 $\frac{7}{8}$	29 $\frac{3}{8}$ x 26 $\frac{7}{8}$	on bottom 75' NINOLE COVE tail carap - 3 $\frac{1}{4}$ " "plastan 6"
9/3/76	Recaptured between Ninole/KAWA		40'	large barn under LFL - bump on left limb - scar like shark bite -

from Bob Wright in letter dated 8/20/76

② 8/17/76	1857 LFL	28 $\frac{3}{8}$ x 24 $\frac{1}{4}$	30 $\frac{1}{2}$ x 30 $\frac{1}{2}$	NINOLE COVE 70' Tail carap - 2 $\frac{1}{2}$ " plast 7 $\frac{1}{2}$ "
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③ 8/18/76	1862 RFL	19 $\frac{7}{8}$ x 18 $\frac{1}{2}$	21 x 21 $\frac{1}{2}$	KAMEHAME 30' carap - even plast - 3" replaced Punalulu
Photos (Brown-Gold coloration - translucent marginals) Photos tail "poorly" developed				

④ 8/18/76	1863 LFL	19 $\frac{5}{8}$ x 15 $\frac{1}{4}$	21 $\frac{3}{8}$ x 19 $\frac{3}{8}$	KAMEHAME 30' cara - $\frac{1}{4}$ " plast 3"
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6 KAU

8 KAU

"1867 destroyed on application"
1875 Ruined
1881 destroyed
1884 hood

sex location

Date	Tag No.	STraight	curved	Remarks
8/17/76	1864LFL	14⁷/₈ x 12¹/₂	16 x 15	KAMEHAME 30'

(23)

8/19/76 1865LFL 37 x 28 40 x 36
 Hawkbill - estimate wt. 200lbs
 only 2 prefrontals - seam between top two and bottom two
 had all but disappeared -
 Copied from WRIGHT/LAY Cards 9/25/76
 Kamehame free swim
 N. side cove 80'

(16) 8/1

8/18/76 1864LFL 14⁷/₈ x 12¹/₂ 16 x 15
 Kamehame
 cara - even
 Plast - 2¹/₂"

(17) (25) 8/18/23/76

1866LFL 22¹/₄ x 18 23⁷/₈ x 21³/₄
 40'
 B/k sand Bay on spui
 cara 3/4
 plast 4¹/₂

(18) Fi 8/13

8/24/76 1868RFL 17¹/₄ x 13¹/₂ 18 x 16¹/₂
 NE Block Sand Bay 40'
 cara - even 3/4
 plast - 2

(27) 8/27/76 1869 RFL 16x15 1/4 17 1/2 x 16 1/2 off Pavilion - Pinnacle 25'
 PC's MISSING 28-32 lbs 8th R Marg miss 2 1/2 cara 3 plast

(28) 8/31/76 1870 LFL 16 1/4 x 13 1/8 17 x 15 1/2 cliff face Kawane 10'
 caught swimming cara - even plast - 3"

(29) 9/1/76 1872 LFL 17 7/8 x 14 7/8 18 7/8 x 17 1/8 around Pt - Nivole cave 35' or deep

(30) 9/1/76 1873 16 1/2 x 13 1/4 17 1/2 x 15 around Pt - Nivole cave 38'
 3 centrals where one or two are cara - even plast - 3 1/4

(31) 9/2/76 1874 LFL 17 1/4 x 14 17 7/8 x 16 1/4 Between Bay and Rocks Nivole/Kawa 40'
 2 lbs cara 5/8" 3 5/8" plast

(32) 9/2/76 1876 RFL 17 3/4 x 14 1/4 18 7/8 x 16 1/2 Between Bay & Rocks Nivole/Kawa 35'
 28 lbs

(33) 9/3/76 1877 LFL 17 5/8 x 15 18 1/2 x 16 3/4 Between Bay & Rocks N/K 35'
 26 lbs

(34) 9/3/76 1878 LFL 21 x 16 1/2 22 1/8 x 19 Between Bay & Rocks N/K 25'
 38 lbs

- (35) 9/6/76 1879 RFL $16\frac{1}{4} \times 13\frac{1}{8}$ $17\frac{7}{8} \times 16$ Kamehame
 28lbs Caret even 50'
 plus $3\frac{1}{8}$
- (36) 9/6/76 1880 LFL $21\frac{1}{4} \times 16\frac{1}{2}$ $22\frac{3}{4} \times 20\frac{1}{8}$ Kamehame
 46lbs 25'
 Caret $1\frac{1}{4}$
 plus $5\frac{1}{8}$
 R precentral and 2nd may be damaged.
 Right HF split
- During my visit ↓
- (37) 9/12 photo 1882 LFI $23\frac{1}{2} \times 18\frac{3}{4}$ $25\frac{1}{4} \times 23$ Kamehame
 photo Released Peravalu R side 40'
 Caret $1\frac{1}{2}$
 plus $5\frac{1}{4}$
- 9/25/76 Recapture - number read in Cave Kamehame (By me)
- (38) 9/25/76 1883 LFI, 1886 RF $23\frac{1}{4} \times 20\frac{7}{8}$ CURVED ONLY Kamehame
 photo under coral w/mike CAVE
 Left rear flipper partly missing Caret - $1\frac{3}{8}$
 plus $4\frac{5}{8}$
- (39) 9/25/76 1885 RFL, 1871 LF, 474 PFF
 $16\frac{3}{4} \times 13\frac{1}{8}$ $18\frac{1}{2} \times 16$ offshore
 5 minutes toward
 KAWA
 RELEASE DATA: Escaped from Pond 3 sometime
 after 10/26/75 → S $16\frac{3}{4} \times 12\frac{7}{8}$

Summary - 37 Greens 2 hawksbills = 39 Turtles
 recaptures - 7 Green (1 captive release, 1 by A. Howard)
 ∴ 37 greens, 6 short-term recaptures in
 general area.

Wright/Lay project used - size 681 MONEL

1836	1852	1869
1838	1853	1870
1840	1854	1872
1841	1856 hawk	1873
1842 & 1855	1858 & 1859	1874
1843	1860 & 1861	1876
1844	1857	1877
1846	1862	1878
1847	1863	1879
1848	1865 hawk	1880
1849	1864	1882
1850	1866	
1851	1868	

12 KAU TRIP #1

WED.

8/11/76

Hono → HILO 0800 HA flight
Called Dan Channey about Murty toy -
unaware of recovery.

They have
permits as per
Dillon's office

TO onekahakaha Beach Park - Recreation
Cof H - saw small ^{Turtle Limy photo} Hawkbill at childrens zoo
measured - 8 1/2 sl. carapace

In small aquarium - little water
talked to Polly at Fisherman's Cove
restaurant - observed 1 small green ~ 15" in
pond under building - may be more. ^{2? more}

only
see
shell
seen!

TO Volcano - talked by phone to
John Hansen (Box 15) - mentioned young's
shoe store HILO has shell collection.

TO PAHALA - PUNAHU - HONUAPU - NAALEHU
Spoke with Arnold Howard - Nelson Santos

Notes - Names of pure turtle catchers? ENRIQUES -
- Name of tank filler? PUNCHY Kim
consider -

Uria hukini
Koa haku
Woody's Aquatic

1/21/77 should
call
Colonel
Phillips

Kawa - surfing beach - locked gate -
Army Helicopters helping FG

8/11 ~ 1800 I saw 3 turtles from cliffs Turtle Bay feeding

- Name of head warden in HILO -

Thurs.

8/12/76 Dive at SUNRISE - TO South Point (snorkle) -

Camped on BEACH Thursday night with Mike Jay.

SCUBA Dive consisted of scanning "cliff" area immediately out from Punaluu beach ~ 35' depth.

Caught one green already tagged 1842 in depression in cliff. Second tag put on 1855.

Second part of SCUBA dive was off Turtle Bay.

Mike caught one hawksbill - tagged her 1856.

Nearly all yellow plastic - smooth margins, overlapping plates - some algal scum growth w/sand.

- ⊛ note - send R. Chan to FG to update statistics - Howard turned in catch report with drawing of healed injuries turtle

Backy, Andy - fund raiser, heavy lupus 8/29/76
 Later report indicated no turtle saved.

14 KAW

obtain land chart of kaw coastline

Friday

8/13/76

Dive at SUNRISE (2 tanks). First off Turtle Bay
Bobwright caught 33" SL carapace female.

Second off Nihoa Bay campsite. Caught medium
size perched on bottom in 75'. Saw 3-4 more
turtles in area.

Note - Green getting into cave/hole causes
sand/silt to stir up. When it settles, it
comes down on carapace.

About 1530h walked out to Turtle Bay - saw
at least 5 feeding, only one hooked in
17" category. Possibly two with tags were
seen.

~ 1730 Talked with Arnold Howard. He indicated
1. only one person regularly fishes for turtles
(pole in stored on gift shop) - does it from
Turtle Bay apparently.

2. The shell - fragments of a small turtle
were seen down the coast recently.

3. There is one small bay and then a
large one after Turtle Bay - The second
one has the most turtles, but they
do not feed at a spot, were they can
be taken by pole and line.

4. There are several bays before
Kawa where there are concentrations
of turtles.

5. He knows of Alike Cooper - he
used to catch turtles at Kaa-walu
with many nets. Howard saw

8/13/76 him stop at Punalu'uone with truck
load of many turtles
6. Area at Kawakae immediately down
from Heiau mud bottom (dodged area?)
has concentration of turtles - feeding
on limu - can be easily caught with net.

1830 Drove down by golf course parking lot -
saw ^{with Mike} pond and sand pool where Wright
Lay caught one small turtle in ledge.
Looked at two adjacent heiaus.
Saw one small and one large turtles
surface (feeding) offshore. Ulva present
on offshore reef projection.

8/14/76 Calmer seas - made total of 3 dives, one tank
SATURDAY each. Dived ^{6 total seen} one at ~0615. Bob, Mike, me, off
Ninole - at 80' traveled along ledge - slopes
down from there. Bob and Mike saw one medium
size, but missed it. I inspected large
rock outcrop/coral head. Found depression
along bottom (sand on bottom) with two turtles
inside (1 ~ 18"; 1 ~ 34-36"). Small turtle
left when I approached. Large one stayed
into - Eyes open - examined for tag on
flaps - it left - stirred up much sand silt.
Continued on looking over boulders - coral
head [Note red fish? and lobster in depression]
~0030 Second dive off Turtle Bay - Bob and I only -
possibly one turtle seen. Third dive off

Saturday
8/14/76

took place about ~1100, however ~~at~~ after second
dive time was spent snorkeling into turtle
bay - algae samples collected - fine red
alga covers boulder in bay with dense
brown, interspersed. Snorkled off rock
island near third bay - saw 0.22"
with right hind limb missing. I almost
grabbed it, but ran out of air. Mike
spotted very small, clean, sunburst color green
and we chased it into gulch with foaming
white water breaking in. I had 100 lbs of air
left so tried going underneath - saw it but
lost sight when it went up into foam. Snorkled
after second SCUBA, did not result in seeing
turtles in Turtle Bay - a total of 3 were
seen while snorkeling off of third bay (black
sand on bottom). Hawkbill with red fish
was photographed by Mike (months ago) at
this site in creek.

Third SCUBA dive was off of 3rd Bay,
Bob and I worked our way back
towards turtle bay. Possibly two turtles
observed (may have been same one) with tag.
Wind came up so we went in.

About 1430 walked to look at
Turtle bay - saw 6-8 different turtles -
two were 17" range - others 22"+. Saw
one with white spot on back - same as
yesterday?

Surface Temp off Puuvaluu - 25.2°C ¹⁷
due to fresh water?

SAT.

8/14/76

~ 1800

Hiked out by sand pool - people around -
no turtles seen offshore. Photos taken
of coastline. Looked at two Heians.

Hiked back out to Turtle Bay ~~about~~
about sunset. Observed for 30 minutes -
but only saw one turtle breath once.

Returned to campsite, met husky Kim -
with compressor truck. He knows Feighten
Taylor - said not to deal with Pen Caye
Kapuaeae. Said Puuvaluu - Kair coastline
had greatest number of turtles on Big Island.

* Concentrations also at King's Landing; off
of sewage plant; and off of bridge
outside of Hilo - called _____. Not
many seen at Miboli, Horopaa. But
concentration at Kalapana, Halapae.
Rep will be going to Uaiakubini white
sand 8/15 - will report to Mike if excavations
seen.

Sunday

8/15/76

~ 0030

Went to "sand pool" - surge still rough -
swam around inside - tree at bottom -
saw ledges at ~ 8'. Only one palani inside,
no turtles.

0600

* Packed up camp, visited briefly with Mrs. Howard,
note - need to find out where last nesting of
Hawk occurred, also what sand beach
friend reported egg shells ~~of~~ years ago.
Note that Howard says during summer
human activity stop turtles from coming

18 KAU

Sunday inside of surf at Punaluu to feed
8/15/76 on turtle limu. During winter there
is less activity and turtles come in.

~0700 Stopped at Bob Wright's house to get
limu sample and have brief talk. He
looks after trip to Hono to be for
showing of slide/talk.

10 Hilo - saw large, dark turtle shell
about 3 miles past Hirono store.

Depart Hilo 0850 flight 73 HA.

Memo-report should be sent to McMahon,
Pennington, (Eversol?), Takata(?), Wright,
Lay. It should contain - description of
activities, why taken (background),
findings - Weather conditions, quality - competency,
enthusiasm (?)

[ensure a clear cut beginning and end - ensure
a successful conclusion and resultant report]

Recommendation - (A) Conclusion date
- reasons 1. Classes start; 2. Howard
3. Enough information collected 4. Pressure
on turtles (B) Tactful handling of
concentration of turtles - known to some
(Howard, Kim, other), protect against poaching,
susceptibility of turtle to SCUBA - spear
guns (C) My role as investigator of
turtles - maintain direct control -
handling of anticipated activities

Memo Report sent to McMahon, Pennington, Eversol, Wright and Lay
COPY IN FILES

8/15/76 RETURNED TO HONOLULU FROM HILO

8/17/76 From Dennis Russell Turtle Bay algae - ^{specimens} in my officemost abundant
IN TURTLE BAY →~~Halimida Forosa~~Halymenia formosa f. ^{by hy, red-} ^{chop's}Amansia Glomerata curly-Diana saw possible corallines
oppositePterocladia Capillaria*
8/25/76Talked to Mr. Almanza - reconfirmed number
1485 with Coconut Is. inscription on back. Only

MAY

5/31/76

one tag seen. Report that about same size
turtle observed at later date at Liliuokalani
Park. Very helpful-friendly. He took Oceanography
class in 1968 from Dr. and Mrs. Milley (?).Address - 157 Lukiia Street Hilo 96720
Home telephone - 935-4163original Tagging Information -

tag 1485/1486 date 11/8/75 tail length 2 1/4

plastron length 13 1/2 SL 16 SW 14 1/4

CL 17 3/4 CW 17 1/2

weight - 26 lbs

MIDWAY ATOLL

by Bobby Robbins

BTJ

see page 2
part 12[Note - 1445^{RP} 4/28/75
release from CI Lagoon

* T/FWS log numbers at Midway ^{Removed}
9/4/76

Thursday **DEPART** For Midway 0800h Hickam AFB
8/26/76 C-141 #219.00 Round trip.

Arrive ~1100h - photos out starboard window
Walked around town - to harbor with Elaine

8/27 Friday up early to Eastern Is. Photos of East
shoreline - sooty - Dove along South shore -
Saw one turtle in distance in Cove. Two turtles,
possibly out from under ledge, in gully
near barrier reef. one small, one medium (medium
with ^{FPS} tag). Returned to Sand Island at 3:20.

8/28 Sat. 0830 Mallow arrived inter harbor
with Sekora, Marilyn Perkins, Brent?

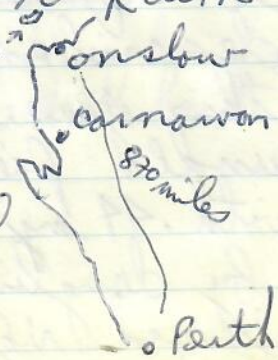
(Sekora assistant). Photos of Limad young
white Tern. to beach for swim.

Found injured Tropic by Boy Scouts - Band
present - No. 595-79790 ^{SAN PIERRE} or Mickey Moss-Hono

Jim gave me card of Bob Watanabe,
Electronics Technician - Weather Service
office - Kahului Airport, 96732 tel 877-6825

Note - SKIN DIVER'S GUIDE TO HAWAII
by Gordon Freund - Fourth Printing 1973
page 27 - TURTLE page 70 Rank
State of Hawaii

(10 Islands)
Note - MACKEREL ISLANDS
Main Is - Thevenard - oval shaped
3 miles long - 1/2 mile wide
40 species of birds



22 MIDWAY

8/28/76 both sea and land varieties (osprey)

SATURDAY "hairless goannas" and very rare species of native mouse. "On the reefs you will find turtles, Dugong, crayfish, and oyster in bountiful numbers - just imagine the night time barbecues"

EVENING Bill Streeter - NMFS^{new} agent (Seeward chain - all islands) TO Dinner at JRB Tuesday night To CPO/officers club for "Aloha Dinner" - Talked to LtCMR Murray (Go Mallow) about shark chasing him at Laysan - Saw medium sized turtle in cave. Indicated C. Whitlow was at FFS also CG men put on 32 miles day on truck. Buoy tenders and 95'el's were at FFS, and Admiral Moreau flew up in C-130

8/29/76 out road past Boy Scouts to photograph Tropic Birds. Saw two mynah birds (Pigeons are also on Island). About noon went snorkeling off KK club. On return talked to Charlie Mauke (pilot of C-117). He described three tiger sharks taken this year. One with hook and line from under pier on Eastern; one from boat with .44 mg. that was attracted to boat by dangling lobster head; Third fellow jumped right into water and killed with barge.

SUNDAY
8/29/76

Dove on coral head off steel retaining wall
NAVFAC - saw small turtle with hind
limb mostly missing. Dove in adjacent
apparent landing craft wreck. Bicycled to
NAVFAC (Naval Facility), past MRF.
Dove at second NAVFAC site further down from
dump.

Note: also from "Skin Diver's guide to Hawaii"
page 44, "Island of Molokai"

* "There is no dive shop on this island but
there is a compressor, owned by Junior Rawlins.
To contact Jr. who often times is out diving
in these turtle-rich waters, contact his brother
Larry at the Chevron Station in Kaunapakai.
Best bet on this island is a boat dive,
weather permitting, to the fabulous North Shore."

8/30/76
Monday

0800 - 1530 TO Eastern Islands - Some rain.
Walked about, looked at birds. Saw 3 Enterprise
Motor/Generators 1957 715hp each.

~ 1400

Caught turtle off South side of Eastern Island
in ~ 5 feet water resting/sleeping under ledge -
relatively shallow depression into coral head.

(Tagged 524 RFL; 1825 LFL
CURVED - 18 3/4" x 16 3/4"

Cocoanut Island • P. O. Box 1346 • Kaneohe, Hawaii 96744

SUNDAY

8/29/76

Dove on coral head off steel retaining wall
NAVFAC - saw small turtle with hind
limb mostly missing. Dove in adjacent
apparent landing craft wreck. Bicycled to
NAVFAC (Naval Facility), past MRF.
Dove at second NAVFAC site further down from
dump.

Note: also from "Skin Diver's guide to Hawaii"
page 44, "Island of Molokai"

* "There is no dive shop on this island but
there is a compressor, owned by Junior Rawlins.
To contact Jr. who often-times is out diving
in these turtle-rich waters, contact his brother
Larry at the Chevron Station in Kaulapakai.
Best bet on this island is a boat dive
weather permitting, to the fabulous North Shore."

8/30/76

Monday

0800 - 1530 TO Eastern Islands - Some rain.
Walked about, looked at birds. Saw 3 Enterprise
Motor/Generators 1957 715hp each.

~ 1400

Caught turtle off South side of Eastern Island
in ~ 5 feet water resting/sleeping under ledge -
relatively shallow depression into coral head.

(Tagged 524 RFL; 1825 LFL
CURVED - 18 3/4" x 16 3/4"

8/31/76
 Tuesby 0900 visited weather station, bicycled to NAVFAC side,
 saw seal and watched plane C141 take off.
 bicycled to many sites around Sand Island.
 Had dinner at Gary and Linda Means.

Sent addressed/stamped envelopes for seawater
 temperatures -

(Chief)

Bob Garrett AGC
 U.S. Naval Weather Service
 Environmental Detachment
 U.S. Naval Station, Box 35
 FPO San Francisco 96614

0900-
 1000

Went with Bill Smith to take SW temperature
 off cargo pier - about half way out, bucket
 on line, water scooped out from about 4-5 feet
 depth. Aug 31, 76 - 77.9°F. Proceeded to
 interharbor by tide gauge, same procedure
 gave 78.6°F.

Smith was here 1964-65, helped
 Hawey Fisher with albatross studies. Turtles
 were taken free diving (hand) - said to
 be many more at that time and larger.

TUESDAY
8/31/76

Turtles eaten - cook outs / soup, etc.

Rented bikes from Bausch.

Talked to Jim Kunishima (2 stripes).

He found Waiwai Tole (Codwings) in shallow water by beach rock near fallen towers - Eastern Island. Also, he saw turtle feeding in current in small pass through barrier reef by "reef Hotel".

Large sharks reported present off NAVFAC according to Kunishima. Saw sharks eating gonyes in water - came around boat, but not seen at 90' depth when working on cable. Doured aircraft at site - full of lobsters.

26

MIDWAY

SOOTY TERN BAND/EASTERN IS/DEAD/-793-87595

Funds

work with FWS

9/1/76

WEDNESDAY

Purposes ^① Locate/identify concentrations in chain -

- ② Inventory/census (numbers, size categories, seasonality, etc)
- ③ Intensively examine select concentration to determine life history facts, such as,
 - a) how fast they grow
 - b) when they become sexually mature
 - c) where they go/where they come from
 - d) mortality factors
 - e) food sources - distribution/abundance

MIDWAY Atoll - already identified as aggregate site of principally juveniles

OBJECTS (3 YEAR) AT MIDWAY Atoll

1. Encourage/assist kt dive club to continue capturing and tagging as many juveniles as possible through "least disturbance" methods as described by me.
~~to~~ [Supply club with tag kits]
2. Personally conduct surveys at periodic intervals with assistant

IN-ORDER

To Accomplish 1 and 2 -
Hope to come to Midway at least
once every 3-4 months

WOULD NEED -

1. Permission to enter Midway
2. Transport to Midway
 - a) MAC #219 (reduce fare govern.)
 - b) USCG C-130
 - c) FAA Electra
 - d) C117 NAVY
3. Accomodations on Midway
4. Access to areas - use of boat
- [5. Helicopter to KURE
6. Helicopter to Pearl and Hermes

Communications?

9/1/76

WEDNESDAY

Met with XO CMDR KEN MILLER
concerning above. He will have Captain
write letter for me to travel on Navy
aircraft.

Contact a Mr. Detucci at MAC Hickham

28 MIDWAY

LIBRARY OF
GEORGE H. BALAZS

AUGUST SEAWATER TEMPERATURES

WEDNESDAY
9/1/76

DAY Cargosier

1	78° F	26	80
2	78	27	80
3	78	28	78
4	78	29	79
5	78	30	80
6	79	31	77.9 (Interhuber 78.6)
7	79		
8	79		
9	80.2		
10	79		
11	79		
12	79		
13	81		
14	81		
15	80.6		
16	80	1534 - 1550	(7)
17	—	1553 - 1575	(22)
18	80	1576 - 1600	(25)
19	82		total 54
20	81		
21	81		
22	81		
23	81		
24	79		
25	80		

681 TAGS ~~MONSEL~~ remaining at Midway
as of 9/4/76

THURSDAY
9/2/76

WEDNESDAY
9/1/76

Rest of Day biked around Island, saw small turtle off outside interharbor breakwater over junk machinery. Surveyed area later in day (~1700h) - fish (kumu, etc.) but no turtle.

Spoke with Means, ^{DR. RAE} Principal of School (George Cannon) about talks, - letter requested to Bardach.

Note: Jim Bradley has old map of Eastern Island from early 1950's which shows old underground facilities. One command post is 400 feet to South from angle in East-to-West runway. A second command post is 200' inland, in general area of present picnic facilities.

^{IRONWOOD} Trees being sawed down (approx 250) by "equipment operators" - many young white terns taken in (Jones) - birds put on (from FWS Honolulu?). (3) For - water supply, needles & rags

THURSDAY
9/2/76

Talked to Bob Slawic (Pilot John) from Adak ~~and~~ delivering Turbo Commander 1972 \$800,000 to Sidney (VIA WAKE, for safe at Honiara).

Note: 1969 *Our Living World of Nature*
The Life of Sea Islands by N.J. Bevill
and Michael Bevill
Developed jointly with The World Book Encyclopedia
Produced with the COOPERATION OF USDI

30 MIDWAY

~~7/27/76~~ 0800h

9/3/76 Rented Boat from Special Services
FRIDAY \$2.00 hour - Drove to East of Reef Hotel

select places along exposed reef to East, and to East of Eastern Island. No turtles seen, but photos taken of parrot fish, White Terns, schools of Manini, etc.

Collected ¹AB'A in cave in shallow water
Photographed.

NOTE - BRADLEY/HOLMAN CAPTURE DATE ^{is} 4/21/76

SATURDAY
9/4/76 Breakfast at Consolidated Club -
to KK, talked with Kurt Harey and Gary Means who had just returned with captured small turtle in 20' water resting on bottom near "ledge" (shark in area) (Restricted area?)

DATA - Straight $16\frac{1}{4}'' \times 13\frac{1}{2}''$ ^{length} plastron - $12\frac{3}{4}''$
Curved $17\frac{1}{4}'' \times 16''$
tail from end of plastron - $2\frac{7}{8}''$

Weight 24 lbs. (this includes canvas)
a check needs to be made on KK seal

1532^{LF} 1533^{RFLAP} release at boat ramp

MIDWAY 31

Saturday
9/4/76

letter
sent

Bobby Robbins

% O.A. Robbins (Grandparents)

Box 5

Seymour, Ill.

961875 (?)

- Introduce
- Tell of recoveries
- Activity of turtle
- location
- sick - caught twice

Depart MAC flight ~ 12300 ^{seen} ParH

^{not seen} Lusinski - 1300 at 65nm Rt side

^{seen} looks close Laysan - 1312 at 35nm Rt side

^{seen} FFS - 1358 at 30nm Rt side

^{seen} NECKER ~ 1403 ~ 5 miles Rt side

Need 5 tagging kits - including ¹ DATA FORMS ^{PEN}

² Photos of tagging sites ³ Pliers ⁴ Infrared tags

⁵ plastic tape ⁶ small scale (well oiled) (or brass)

all in water tight containers

KK Dive Club - Kimble (President)

Box 300 MIDWAY

NOTES: Ask KK to check all shark stomachs.

Consider photographs of tiger sharks eating Cooney Birds at Midway.

Consider large number of reported fatalities among juvenile albatross this past season. Report that baseball diamond will be constructed in heavily used albatross area adjacent to Hargar.

Also, operation of lawn mowers in Shearwater / Bonin Petrel areas.

32 MIDWAY

9/4/76 RETURN MAG - Sawy PH, LAYSAN, FFS, NECKER
"US Customs Accompanied Baggage Declaration"

DD Form 1854 10 Oct 72

GPO: 1973 O-501-162

"4. Prohibited Items. "...; wild bird feathers,
fruits, vegetables, plants and plant products;
livestock and meats."

from
Hickam
449-6367

WAKE ISLAND

letter
sent

MAJOR ANDREW J. GONOS
COMMANDER, WAKE ISLAND
Detachment 4
15th AIR BASE WING (CC)
APO San Francisco - 96501

a part of Hickam AFB.

THURSDAY 9/23/76 Depart Honolulu-Hilo 11:25 Flight 324 Aloha via Kahului, Maui. Photos taken of South and East Oahu coastline.

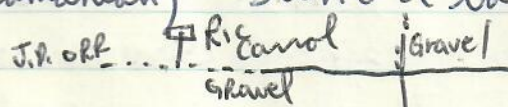
THURS cont. 9/23

* For Hawaii, determining what we have and where we have it" when leaving Kahului, a number of white sand beaches noted along NE coast of Maui isthmus.

Second or third bridge/river bed out of Hilo (with Mill(?)), at least 3 parallel bands of green water noted offshore.

To Hilo Campus - Talked with Jennifer Green and George Allen. MOP activities - Dine Kahoolawe. About 15 MOP students at Hilo. Previous Director John Hughes (student) committed suicide. Daniel Trumpy in charge for awhile - then (May) Ebersole. Talked to Bob Wright home 968-6508 college 935-6162. Punks Kim 959-7762. Machias will take any students out for a Sunday \$4.00

To ~~Richard Carroll~~ Richard Carroll - woman Lin (Guamanian) - 3wk old baby - leased land.



Richard Carroll
Box 850
Pahoa, HI 96778

outwards
Cafe Kumukahi is
Hawaii Ag EXP STATION
MALAMA KI
EXPERIMENTAL FARM

Pahoa

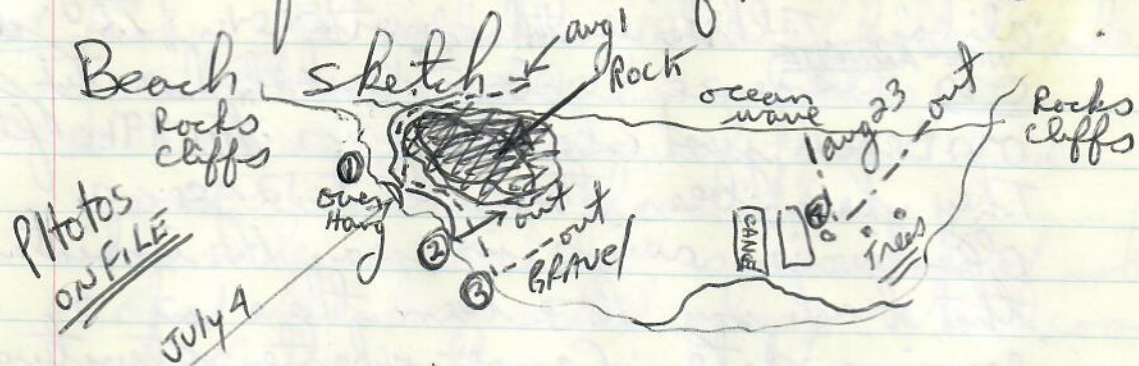
THURS cont. Met Ric Carol, wife Lin, 3 wk old daughter
 9/23 "alika" talked until about 1800h. To Jon
 WIFE - ANNETTE
OR residence - about "hawkbill" nestings
 on beach just boulder prior to 1960 flow.
 They have been there about 12 years.
 Old Hawaiian ruins in area. He indicated
 that beach may have been there at a
 previous date. Canoe shelter structures
 present.

Richard Carol was in on taking of
 two hawkbills at Kaimu ^{Boulders and Caves} a few years
 ago. Sees greens and hawkbills at
 Jon beach. Has many contacts
 who know about turtles - taking, etc.
 knows of a resident further up beach
 who shoots turtles - swims out to
 get them. Ric mentioned presence
 of isopods (?) on fins of merpochi,
 in same holes as turtles - possible
 food source? Mentioned possibility of
 Hukilau selling turtle in recent
 times - word put out that they will
 buy(?)

Carol/orr - Kaimu beach
 nestings some years ago removed.
 Now dropped 20' (?)
 Orr beach nestings - July 4 (seen only
 by Ric), August 1 - (or), Aug 23 (or).
 Small width of tracks
 noted ~ 2.5 feet estimated.

Cont.
THURS
9/23

watched first in series of Presidential debates.

CONT.
FRIDAY
9/24/76J.B. on Box 14 Pahoa

on told of harpooning a large (38") at
Lafahoehoe in 1959 near present
concrete ramp. Saw 3 total.

Define ANAMISTIC

During 3 year cruise on's travel to
Bali - Denoay Harbor, saw knots of
bamboo with roofs containing 100's of
turtles. Said they were "caught" on
sand bar. Turtles are taken by
bus to Den Pesar. - used in
religious ceremony - meat eaten.

Later in Galle, Ceylon they saw
hawksbill shell. made in jewelry.

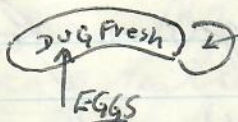
Heard complaints of insufficient supply

9/24/76
FRIDAY

Interesting night's sleep at on's.
Woke ~ 0600 - examined nesting sites.
Excavated July 4 ^{site} under rock overhang.

9/24
FRIDAY

cont.
FRIDAY
9/24/76

Very-dry sand. Dug out to moist area -
no eggs. Dug at site ② - root underneath,
no eggs found. Site ③ Coarse gravel - looks
bad to me for nesting. Site ④ Aug 23
found top of clutch


but broke one egg in the process. Marked
site. Sand Temperature ~ 27° at ~ 9".
Sand sample taken. Second egg removed,
opened, live embryo examined, photos
preserved. Small size of egg
leads me to conclude hawkbill.
Recommended chicken wire enclosure
to keep out mongoose, people, etc.

1. Need to estimate days to Hatch.
2. Need to write formal memo report
for FG and FWS. Request permission
to retain remaining nonviable
eggs, embryos.

Note - AIR - Kim
Woody's Aquatic Service
382 KAM AVE
961-6171.

9/29
> 1400h

Develop
Sighting
Reports for
MOP

Horo Sport sells dive gear.
Visited / Met Ebersole - Discussed program.
Visited WADA HARA Fish Store
They were giving away Thresher Shark ~ 5ft.

38 HAWAII 9/23-9/26/76

Hilo campus -
P.O. Box 1357
Hilo 96720

Friday cont.
9/24

Said tasteless. Meat white.

Pete Hendricks - Newspaper Column
WEST HAWAII TODAY
Marine Advisory Program for Hawaii
885-4453

Telephoned him - will be in Honolulu Thurs. 1330.
Telephone Al Mana and Jon Griffin.
Visited Naha Stone and Halai Hill.
Dinner at Hukilau, 15 South Banyan Dr.
Hilo - Richard M. Okimura, owner.

SATURDAY
9/25

overnight at Hilo Hotel - \$11.00 single (Hukilau \$13.50)
Left for Paualuu 0500 -

Saw Mrs. and Mr. Howard launching boat at 0630.
out for SCUBA at 0700 with Bob, Mike & Guy.

Calm weather, motored to Kamehame area.
Small black sand beach. Underwater cliff
drops to ~100' sheer. Long green wreef like
algae out of cliff face. Starfish (crown of thorns) seen.
also black coral. Cave depression with turtle
1882 tag recapture read. Also capture one
for tagging (1883LFL, 1886RF) and saw one small
no tag - I took photos underwater.

DIVE 2 towards KAWA. Saw adult on surface -
stopped to dive, but did not see.

- I found turtle wedged in crack. Noted
✓ notch right off. Tag number 474.
New tags 1885RFL, 1887LF C 18 1/2 x 16 S 16 3/4 x 13 1/8

SATURDAY
9/25/76

SUNDAY
9/26/76

SATURDAY
9/25/76

Bill McGrewder works for Alison Kay - Opiki - Limu
About 2 weeks ago Mr. Howard caught 1851
right in Lunaluu - shallow water feeding
Released -

Saw Mr. Howard's turtle pictures - ^{photo of Hawk?}
* large turtles. Ask for copies. Santos
indicated that they only lost one
turtle in net - at Kadaluu ^{Kadaluu} ~~here own~~ FG
fault. Howard wants me to arrange trial permit
Bob has ~~the~~ tags 1887-1900. Returned to me 9/26/76
(2009 called ~~Malama~~ again - he was on Wake/Carter
Pohakuloa - Army - but Marine Corps
helicopters use it)

Karen visited beach at end of
"Road to Sea". Lost (other side of) S Point.
(oceanview) near MANUKA State Park

SUNDAY
9/26/76

Stayed overnight at Bob Wright's
Up at 0600 to Lunaluu. Talked
briefly with Howards. To Turtle Bay -
moderate to heavy waves - no sign
of turtle feeding. 0700-0800. Howard,
Santos, et al out fishing.

0900 returned to Wrights for discussion
about report. Three points to discuss
with John McMahon - ① Stipend - from July 1 -
Oct 30 (?) Sept 15 - Oct 30, for report
writing? ② Photo supplies - NOT want
duplicates (?) ③ Wright/Kay trip to
Honolulu for?

Note: A. HOWARD sets pieces of nets at night. ^{says} better

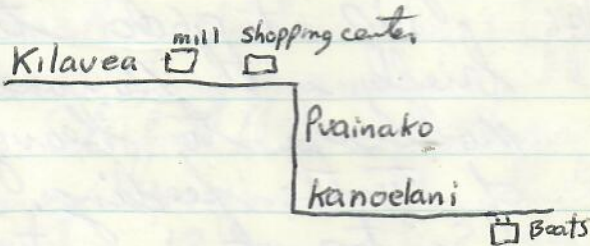
* PRIORITY ITEMS - TOPOGRAPHIC MAPS
AERIAL PHOTOS

SUNDAY
9/26/76

1100 - drove back to Hilo, stopped at Volcano House. stopped at private residence to photograph large turtle shell hanging on car port - woman indicated that it came from Honolulu - brought it with them when moving over. TO NAHA Stones for photo. also stopped at Liliokalani Gardens - saw limu on rocks. TO Airport - ^{CARD TO OPP'S.} Telephone Charney about foy trip to Halapae - asked that he write me a brief letter about ① turtle sightings at Halapae ② address of Bob Crawford.

DEPART for Honolulu via Kahalaui on aloha flight 365 2:25 PM. after takeoff, observed hotels(?) and large pond out post airport along shoreline. Need to drive out there on next trip.

Punchy Kim



10/3/76

Gary captured ~ 13' Tiger Shark off of Diamond Head (for fish for bait) - Stomach contents contained whole, fresh, "green", - gold-brown colored - curved $18\frac{7}{8} \times 17$ weight $29\frac{3}{4}$ lbs. Saved head and front and rear sections and stomach (packed with limu). Shark also had digested belly bones of another turtle, partially.

Haloa
Hawaii

10/3/76
10/30/76
10/31/76
11/1/76
11/3
11/11/76
11/13/76

- shark

10/3/76 digested aluminum beer cans, and
hunk of coral with fan anemones on it.

10/30/76 ^{sat} Jon or called concerning sand collapse over
nest - I was at SLPO

10/31/76 Jon or called at 0730 - Linda gave him
information that I had written down

11/1/76 Jon called me at work and said
that a single hatchling came out of
nest last night - Time? ____ . It took
17 minutes to reach to water.

11/3 Jon called collect - Said that last night
(Tuesday) 34 came out between 7-12 midnight;
Monday night - 5. No mongoose
problems - watches on nest during night -
little sleep - will take measurements.

11/11/76 Jon called Linda, said that by
November 5, #52 had emerged; #53-56 were
3" underground; Nov 10 #5 1" down; last night
#58 - Said that big surf coming - advised
to dig up remainder.

11/13/76 Boiled bones -

The two front quarters (flippers and all)
weigh 5 lbs. The hind quarters including
tail weigh 2 lbs. Photos and sample
saved of stomach contents.

$$5 \div 29.75 =$$

$$7 \div 29.75 =$$

Tuesday 11/30/76 Went to Sand Is FG station to tag turtle that confiscated by agents Kailua Bay - Caught in net -

12/8/76

WEDNESDAY

Curved $30\frac{7}{8}$ " x $28\frac{3}{8}$ "

Straight 29" x $23\frac{5}{8}$ "

photos taken - dark shell - Tail slightly long -

Tags INCONEL - 2123^{LF}, 2124^{LF}, 2125^{RF}

0835

Subsequent note from Al Stevens indicated that he released turtle at entrance to Honolulu Harbor - also enclosed map showing capture location in Kailua Bay.

Measured + Tagged May 16th 1977 MONDAY - Sand Island

5/16/77 CURVED - 27 $\frac{1}{2}$ " x 25 $\frac{1}{2}$ " 548-3966
Confiscated by FG Agent - Talked to Al Stevens.

photos?

STRAIGHT - 25 $\frac{7}{8}$ " x 20 $\frac{3}{8}$ "

Tag # 2157 R. flip. # 2159 I. CI,

2158 R. tail flip # 2160 I. tail flip

Slimy shell, dark shell - ^{Thick} Algal growth on head/shell

Plastron Length :- 20"

Tail - 5 $\frac{3}{4}$ "

Head width - 4"

Grazed spear wound left side of head.

End of left front flip partially missing.

Not thick body as compared to Hoi. turtle.

Coralline algae ^{2nd Central} 2nd lateral (I) ^{4th lateral (rt.)}

Confiscated 4/30
[Taken Barber's Point]
Release Sand IS;
5/17/77

Lt. Gary R. McCaffrey USCG
92-5410 Pilipono Street
EWA BEACH, HI 96706

12/8/76 TO USCG Barbers Point - (40 minutes) w/A. KAM
WEDNESDAY - Met Bill Hughes wardroom

Lt. Gary McCaffrey - Heb pilot - suggested
write letter to District about
getting - he will supply charts.
Report of ~50/6 turtle found inside
of sea wall Tern Island NOV 24-28 (?)

0835

~~DEPART~~ for Kure via C-130 (No. 4 Engine
oil leak - delay until 1000

This is C-130 No. 1340. (other two - 1345, 50)

Pilot - CMDR GRAHAM

Co Pilot - ^{Lt?} CMDR MORRISSEY

Barbers Point Liaison - Mr. MATTINGLY

Chief in EM Club - MANUEL - ^{STATIONED} AT MARCUS
1340 recently returned from 'West Pac' flight -
MARCUS, IWO JIMA, JAPAN.

PURPOSE OF EXPEDITION: Confer with
personnel - Flight traversed ~ 200 miles
south of line parallel of Kauai - Midway.
Sighted 5 vessels - only one (SOI 810 (JAP))
was fishing vessel, but underway.

Arrive Kure ~ 1400h - talked with CO Jerry
Kiechner (arrived last April). Seal seen

on beach w/ shark bite - one eye glassy.
Visited site, but it had left. CG has

2-16'9" whales - one w/ 20hp, one w/ 40hp.

- Air Cold - Dump material for shark fishing.

Left Kure after ~ 1-2 hours for Midway.

Checked into BOQ - AHA # 5 night.

12/30
Barbers Point
IS;

BARBERS POINT -
USCG AIR STATION
FPO San Francisco 96611

Thursday
12/9/76 [Fuji MAEV - Photos 1927Z] 29° 55' 17" N 155° 15' W

Towards ^{ADCS} Matthews - 6854 112th St
HAWCOCK
SEAMOUNT EWA BEACH 96706

photo - American - Containers
LATER VISITED at house w/ him and LINDA - GOING TO HONG KONG
12/7 - HE IS SENIOR GAME WARDEN - Lots of Big lobster AT KURE

(CONT)
12/8/76
WED

Saw Gary Means on way to
Cafe - Saw Tim Kurohina at cafe -
he told of turtles (2) recovered by
him and Art Honey off cargo pier -
one had tag but could not find
data in log. Replaced tag -
kept old one (?)

^{MKC} Chief at KURE - BRYAN ^{Parker}
2200h looked for Barn Petrel young - only
Many adults present.

12/9/76 Breakfast at EM Mess \$1.00

Thursday ~ 0745 Depart for Hancock Seamount and
Return to KURE to deliver Cargo -
Walked down by East Beach and under
main antennae photos of Jaysan gullatross -
TO Midway for brief refuel.
Depart Midway, observed Leial and Hermes
Reef (wide angle photos). Spotted Japanese
fish boat about 25-40 miles off (NW)
of Jaysan - two passes (photo)
Made a turn around Jaysan, many
wide angle photos. observed

(CONT)
12/9/76
Thursday

WEDNESDAY
1/19/77

PRELIMINARY ASCERTAINMENT OF DISTRIBUTION
AND ABUNDANCE OF TURTLES
PURPOSE OF TRIP

(cont)
12/9/76
Thursday

Maro Reef - Wide angle photos. TO FFS.
I sat in navigator's (Lt Murphy) seat
for landing. Only about 30 minutes
on ground at FFS. Depart for
Hono. Saw Necker, Nihoa - sat up
front all the way. Arrive Barber's
Point at 1820 h, cleared customs.
Rogge & Nyström
USCS Central Pacific office 546-5107
EN chief Chappell - Kure Atoll

WEDNESDAY

1/19/77

CMOR Morrissey - aircraft commander - Captain - Pilot

DEPART C-130 Barber's Point for Kure
with Mark Junker, John Naughton, CG FFS
1st class, ^{more} ^{and 2nd} ^{mile/whale} ^{patches}
Rogge & Nyström - Low level
fisheries patrol after 140 miles out.

Saw Nihoa to the North, diverted
North just before FFS due to vessel
(Cargo). Flew ~150 miles
Pinnacles looking for sinking log
carrying cargo vessel. Found, circled
and photographed. Then flew right for
Midway, North of other islands. Other C-130
had been circling in area, spotted
floating bow section of sunken tanker (Sokora aboard)
landed at Midway to discharge 2nd
flight crew to take back other C-130.
Also took off frozen food destined for FFS.
Departed Midway after approx. 30 minutes
and landed directly at Kure.
(Report of flares spotted previous night)

BASIC
PURPOSE OF TRIP -
PRELIMINARY ASCERTAINMENT OF DISTRIBUTION
AND ABUNDANCE OF TURTLES
AT KURE.

continued
'/19/77

Unloaded all gear - assigned to
Chiefs quarters. Mark and I walked
down to South point to check out
report of very small turtles seen. Three
seen in first "green" deep area ^(~16" shell) (from South)
one ^(~16") in 2nd or 3rd deep area.

Just north of wind sock 5th turtle seen
~ 25" sitting on bottom close to
shore, head into current. Reasonably
calm weather today, but report
that last week or so has been
very rough, 40 kt winds. Alga clumps
washed up on beach all along

East shore - sample taken - (Codium?)
Saw two large seals, ^{back in 1977} one high, one
low. North tip of island is
posted off limits, ~ 6 seal counted
from distance.

Jerry Kichner reports wood (of vessel)
in shallows near wind sock.
also part of vessel sticking out of
water at West end of atoll.

Tug Port of Brandon sank early 60's
by "landing" (?) old house by
Radar Reflector. Report of King Kam
house? Bombs found in Lagoon -
Kine was used as a target?

write note
to Navy mm
Stationed Midway
1977

Thursday
'/30/77

Name of
vessel?

Thursday
1/20/77

Arise 0700 - Plane 1345, came back from Midway - 0900, left 30 minutes late. Drove to South Point - falling tide - saw 5-6 turtles, some very small (~13") swimming around (feeding on man-o-war?). Ate lunch 12:45 - launched boat ~ 2:00 PM with Jerry, Doc, two others, Mark, myself. Went to deep area (trench), mark #1 on chart. Collected algae samples, noted one coral formation w/ many lobsters. Not many areas seen that would be suited for sleeping turtles. Motored to deep hole (48') spot surrounded by shallower water. Motored to wreck at North with wood still on deck (bys structure). Brief free dive in this area - lots of pretty coral - samples taken. Motored to Japanese wreck (photos) - Motored across lagoon to "floating" stern sections. TD Sand Island (no basking turtles). ~ 30 seals - 1 young juvenile. Several glass balls. Returned to Green Island ~~at~~ 5:30 PM. During evening painted tanks black and set shark line off of pier.

Name of vessel?

- CONTINUED ON PAGE 51 -

1/19/77 to 2/1/77

Weather Data - Kure

WEDNESDAY 1/19/77 Wind approx. NE across runway - Sunny, lagoon reasonably calm.

Thursday 1/20/77 Wind out of South - right down runway, ~15-18kt. Night time air temp 19°C

Friday 1/21/77 South wind stronger - sunny in morning, but cold rain started - noon - heavy overcast; continue into evening light rain.

SAT 1/22 Strong wind, on-off heavy rain all day - Cleared some in late afternoon. Sea Water 18°C
EVENING AIR - 16.5°C (61.7°F)

SUN 1/23 Strong West wind with occasional rain showers. Daytime air temperature 16.5-17.0°C

Monday 1/24 Morning sunny, little wind, lagoon flat. Wind clouds came up (South) later in day - no rain. Daytime ^{air} temperature 20.5°C

Tuesday 1/25 Very strong wind came up during night (38-44knts), some rain, blowing hard. Morning ^{air} temperature 17.5°C
Sea water temp off pier - 17.8°C (64.0°F) Strong wind with intermittent ~~rain~~

Wednesday 1/26 Strong wind - 15°C air temperature
Evening Sea Water 16.4°C

Thursday 1/27 Strong wind all day - a few rain showers.
Morning Sea Water temperature - 16.7°C, wind down somewhat more out of N - lagoon much calmer.
PM - Wind virtually stopped - some sun - lagoon calm.

1/28 Friday
1/29 Saturday

1/30 Sunday

1/31 Monday

2/1 Tuesday

1/28

Friday

High overcast all day - Wind up some from South-SE; Lagoon still reasonably calm; a few light rain showers in the afternoon;

1/29

Saturday

Light wind from W-NW - periods of bright sun; Lagoon has some chop in morning, ^{early} afternoon - calmer later. Seawater temp at ^{DIVE AREA} #8 - 18.9°C
Evening air temperature - 17.2°C

1/30

Sunday

Wind came up in morning - mostly out of West - strong - very choppy lagoon - a few minor rain showers in ^{late} afternoon

1/31

Monday

Moderate to calm wind - partly cloudy with sun

2/1

Tuesday

MIDWAY - Sun in morning, becoming overcast with rain - strong wind from SW - Depart ~ 12 noon

5°C

one

sun

er.

m.

1/21/77
FRIDAY

⁰⁸¹⁵ Bait gone on shark hook. Walked to ⁽⁰⁹³⁰⁾ S Point, rough waves coming in. Photos of birds in flight. Only one small turtle seen (white seam on shell). Turtle came close to shore twice. Rest of time stayed out by end of coral patch. Walked back along East beach - 2 seals - no turtles seen. Readied boat for SCUBA dive but rain prevented departure. at 2:00 PM moved gear to reef at South Point - current very strong right at point - skin dive starting at first sand area - caught 23^{3/8} SL ^(mark saw others) turtle - dark shell, no algal growth, sleeping purple crevice/ledge (labeled #2 on chart). Tagged, measured, photo by Mark, released at South Point - turtle unable to swim against strong current. Helicopter came 4:00 PM, depart about 45 minutes later; Jerry indicates that C-130, Moreau and news team are at Midway. Baited shark hook on pier about 8:30 PM - tied to hook. - Cold outside!

1/22
Saturday

UP ~ 0800 - bait on pier hook not touched - free dive ~ 1200 - 300 PM by wind sock - Mark caught one small turtle - no others seen - set hook at S Point. Walked around Island ~ 0900 - no turtles seen. Question: WHAT Activity took

52

cont

1/22

* Map of world (sent)

* TIDE CHART FOR KURE (sent)

* Xerox book/article for Kure (sent)

PLACE AT KURE DURING WAR YEARS? Structures present? When was airstrip constructed?

* See Floody, Dive officer on Buttonwood. Dove area by S point, fuel buoy. Kure into fun Mr Bryan, BP Museum. King Kam House.

1/23

Sunday

Up about 8:30 AM - walked to South Point via East Beach - about 11 AM Jerry drove up to S. point in M37 with "Bots" - Contacted Tarawa, Gilbert Island on channel 10 CB. Caught four turtles on SCUBA - photos on roll 1. Kure Military Affiliate Radio System

NPNCE: plaque on wall NNNPNCE. Jerry indicates that new Kure patches are coming (from Japan). Xerox of "Soginaw" for Station.

1/24
MON

Up ~ 7:30 - bird photos (roll 2) and observations from S point. Tried to go out in BW, but engine wouldn't start. Gave up. Photos of birds in antenna field. Photo up tower. Dive at S point and 1st hole. Later (until 5:30 PM) dive snorkel towards N point. Many shelters but no turtles. A few goosey bird eggs starting to hatch. Gabe force words in morning.

1/25
Tues.

From information book - Gledstaners - 1837;
Parker (whaler) - 1843; Soginaw - 1870;
Dunmottar Castle - 1886
First Station Commander - JJ Muldoon.

AM

1/25 cont.

PM

→

AM Tried to catch small turtles with scoop net. 53

1/25 cont.

^{no. luck}
Hawaiian Spectator (newspaper) 1838, July
has account of Gledstones wreck.

PM

Drove around island with Jerry. High waves
all over. Oily white foam apparent. Went
to site of concrete ruins and dug
around. Found formed copper object "medicine
bottles", dishes, clove-shaped iron plate,
byrlap cloth.

→ from The Last Cruise of the Saginaw by George H. Reed 1912

Seals plentiful - Page 32

"large sea turtles (on ^{sand} islet) - Page 43 Nov 3, 1870
ashore during rainstorm"

"seal being so tough" ... " Page 48

"Breakfast, turtle steak and a tablespoonful
of mashed potatoes" Page 54 (Nov 11th)

"Breakfast on fish, turtle soup ..." Page 54 (Nov 12th)

"Diet, guppies and turtle ..." Page 56 (Nov 15th)

"Breakfast as usual at 10; turtle and gooney;" (Nov 16th)

"We shall not want for meat for some time, as
there is an abundance of fish seal and turtle" ... Page 66

"The seals, on the contrary, are growing less
in numbers, although great care has
been taken not to fight them away"
Page 80 (Dec 25, 1870)

Upon departure "So our food supply and
many articles of equipment were
collected and stored at the highest
point of the island." Page 93

158 CAEDRAL
as of 1/30
2156 as of 1/29

1/28
CONTINUE

1/25 Palm Springs hospital
(714) 323-6511 EXT 2159 (Family)

1/26
WEDNESDAY

Phone patch to father in hospital (after breakfast)
Cold, windy w/ some rain all day.
Walked to S point twice. Photos of
birds. Helo from Midway came
went out over lagoon once (photo).

* Check indications by "Bots" that sightings
at South point only started in December.

1/27
Thursday

Good, calm weather all day - some overcast.
Bryan Parker piloted boat for us to area
1 SBA Dive - return. C-130 (CME Grafam)
landed with supplies for station work (resurface
roads, build FM tower, etc.) out in boat
for second dive with JT Jolly and Mike to
area 6 - 1 SBA Dive.

1/28
Friday

Helicopter came about 10 AM with dentist,
two Navy lodies; Chaplain. Stayed until after
lunch ~ 1:30 PM - Curt sent over camera
Went for ride in helicopter completely
around atoll - many photos with FUJIFILM
after ride phone patch to Mother - then
to Lin at home (through Calif.).

HAM

MARS- "ANGIE" - NNNΦNSN Lamore, CA

NNNΦMET at Santa Ana, Calif (714) 551-7479

Talked to pilot of helicopter -
(H46A) "Howie Northrup" - he described

1/28
(continued)

beginning of salvage attempt at P.E.H. by
Mike Kimble in sailboat -
about 3 PM in afternoon Jerry, Mark, JJ and
two others went out in boat ~~from~~ ^{to} dive.
Report of seeing turtle from boat and also
Mark saw one in water (may have been same one).
I took walk along West beach - untangled
black goney from long fish line (around rocks
and reefs). Bird sitting on new chick.
Watched 3-4 turtles at S point swimming
up to and eating man-o-war. Many
washed in on beach. Caught two with
scoop net. Released both with a prayer -
"and the spirit of God moved upon the face
of the waters".

Helicopter ride around atoll revealed
"pass" is very shallow with live coral
growing all across it. Another twisted
piece of metal was seen outside of
twisted bow section on North rim. Outer
slope has numerous canyons of
sand running out between coral/coral
rock. Heavy overcast prevented really
good survey from being made.

(NNN) & M HK Honolulu
(NNN) & IKT Honolulu (Coast Guard operator)
NAV-14 Honolulu
to get Kure (NNN) & NCE

1/29 Saturday Up until 3:30 AM drinking and talking with Bob Chappelle, Bryan Parker, Jerry Kichner and Mark.

1/31 Monday

Got up about 9:30 AM (false alarm LORAN failure). Filled tank until 12:30 PM. Talked to father in hospital. Launched boat from newly built trailer about 1 PM. Two dive locations at "trench" as per Dive Log. Returned ~ 5:30 PM - ate lobster for dinner (frozen) - filled tanks during evening.

1/30 Sunday Need signs for keeper at South Point "field" observatory; Phone patches to Lin; Mother; late afternoon in CA father; Wind up strong fog but sunny. Walked around with Mark and photographed birds - Scops netted turtles at S point. Jerry sent message requesting permission to travel on helicopter to Midway - MTC to Honolulu.

1/31 Monday Reasonably calm and sunny - photos and movies of birds in morning - Phone patch to father but he was asleep - Depart on Helicopter about 11:30 AM - arrive Midway in ~ 25 minutes.

left 3 hook cables - N/T on

"Bots" GO. Jerry J. Kichner - Rotate early April - rotate in ~ 6 months
Tommy Michael - rotate in ~ 6 months
CWO - Henson - rotate in ~ 90 days
MK - Bryan Parker
ETC - Bob Chappelle

CG REP MIDWAY - TAPIO same as Kure C.O.

* Need letter of appreciation to District about KURE

MIDWAY
(CONTINUED)

1/31

Monday

Checked in at BOG, ate lunch at EM mess, telephoned father at Midway's MAFS unit, saw CMD Miller - he expressed concern about future assistance transport via helicopter; Orders cut by Industrial Relations - charged to USFWS - Refuge - Sabora; Walked around photographing birds; Called CMD Miller again at 3:30 PM - he had called Sabora in Honolulu; visited Gary and Linda Means - he detailed story of vessel wrecking on Pearl and Hermes and subsequent salvage attempt by Kimble, McFarland and others in sail boat - also of CMD Wirth (flight operations chief) flying to Sabora about helicopter landing on Pearl and Hermes - outlined slides position Midway Command may be in for using military equipment and personnel to back up salvage attempt. E.G. - pumps, helicopters, C-119, showing them the way to P.H., etc. (lowering CMD Miller down to talk to them, 3 choppers in sky at same time, 2 of which not in top condition) landing at P.H. - short on fuel.

Linda Means graduated from TPHS in 1963 - sent senior year there - knew Ted Hayes Had dinner at Korner cafe - went back to Gary's house and saw slides of Wake; ~ 9 PM went to

(stopped at McFarland's class on the way)
 Curt Haney's house. He had told several
 that I would be coming to Midway last
 Thursday or Friday. Went over (more
 recent pages of KK Dive Log - the
 two recoveries that Tim and Curt made
 off end of fuel pier were in log
 (original data). one ~ 18 months old,
 other ~ 20 months - both show
 small but measurable increase - both
 had two of my ^{size} 68 tags - I have
 all four now; mild corrosion present -
 Tags were replaced with new ones (more)
 and put in same hole.

Curt is interested in buy polythene to
 fill 9-55 gallon drums (on raft they
 are building (to moor boats and sleep
 on overnight).

Report that all unused buildings on
 Eastern have be leveled.

Spent night at BOQ

2/1/77
 Tuesday ~ 8:50
 each
 Picked up orders and checked in
 baggage at Terminal at ~ 8 AM, walked
 to KK and interharbor area -
 Big construction still going on at cargo
 pier - oil seepage into water apparent -
 Curt says it is due to old present
 not in use buried tanks. Walked
 by antennae fields and large open
 area not too far from terminal -

special
 pos. of
 Horno Ref.

2/1/77
 (cont)

*

2/1/77
(cont)

photos taken of gooneys with chicks -
 chicks are good abundant and more
 advanced than ^{at} Kure. ate at Kernes
 cafe at ~10:30 AM - went to MTC
 terminal at 11:10 AM - flight is already -
 talked to McFarland - he indicated that
 while at Pearl and Hermes (diving) he saw
 a lot of turtles - also some old wrecks.
 also saw Tim Kurishima - he will
 rotate to Diego Garcia in March. I
 gave him tags #681 INCONEL
 * NOS. 2107 through 2122

to be used in place of Monels they
 now have.

Depart ~1230 PM, took off East to West
 due to wind direction. Nothing
 visible from window 2A.

Driven from MTC terminal by Horatio
Ivan Haykins who used to be
 at Kuroplein atoll - told of
 secret facilities on raava more
 also knew Bob Cordova.

Note - Shark line from pier was set out during
 most of study period, however, bait was usually
 not very fresh. Cable out at South point
 got tangled ^{SNAGGED} quickly - and stay that way.
 BAIT USED - DASYATIS lata (stingray).

Thursday
2/10/77

Message from Kure via George Ramsey that cargo will be in on C-130 about 1800h. Arsel Johnson and assistant went out on C-130 2/9 to Kure.

FRIDAY
2/11/77

2/10

Call from John Barnes that NUC/Wary employee, Charlie caught turtle. Took whales with Alan Tom to fog-report found asleep across channel from NUC in under ledge/cave ~ 10' water. Also report that Halophila grows on sand flat out from NUC.

Turtle appears to be female, ^{unscratched} clean shell and skin - carapace had ~ 10 medium to by barocles - but were knocked off during capture.

S 26 1/2" x 19 5/8"

C 30 5/8 x 28

Tags 2126 LFL Rotated
2127 RFL
2128 L^F

Small tumor on dorsal right neck.

Carapace principally dark - some yellow streak - similar to turtle tagged at Sand Island (caught Kilauea Bay)

Difficult time catching in porpoise pens - no photos

FRIDAY
2/11/77

Green turtle turned in at SLP about one week ago - apparently caught by unknown man off Makopua. Light, gold shell; very active; photos taken EL KR-36

S $14\frac{3}{4}$ x $12\frac{5}{8}$

C. $15\frac{3}{8}$ x $14\frac{1}{2}$

Togs 2129 LFL

2130 RFL

Released by Steve Krises off SLP same day.
(tried to sell it to SLP)

62

2/18/77 ID by Paul Jokiel

KURE CORAL SPECIMENS

Montipora sp.



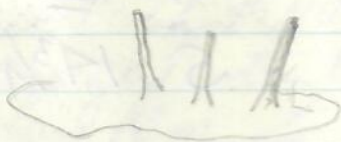
purple

reef inside
fringing reef

2/19/

Montipora verrucosa

growing up
worm tubes



30'

Psammocora (Stephanaria) stellata



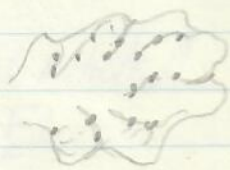
Pocillopora meandrina



Pocillopora verrucosa



Pavona varians
encrusting



2/15/

2/19/77 Green turtle turned in to Waikiki Aquarium about 3-4 days ago. Received by Debra. Ralph Alexander will try to get details. Apparently in came off a fishing boat.

S. 16 x 13⁵/₈

C 16⁷/₈ x 15³/₄

photos.

Shell gold, white plastron, clear no growth. Small omnivorous crab clinging to tail area. Wounds, holes in 2nd lateral left and 4th Central. Turtle very active - seems healthy. Report that it has been actively feeding (fish squid).

Togs

2136 LFL Ro

2137 RFL

No original capture data obtained, as per Ralph Alexander 2/23/77

3/15/77 Report from Brent G. that on orientation trip with Kenyon and assistant at FFS during 3rd (or 4th?) week of February, one blocking turtle seen on trip, one on sand spit near Round/Mullet time about noon.

C. Whitlow at French Frigate Shoals for
turtle observations 3/10 - 3/17/77.

Reports that was able to make only one
trip to Trig - 8 turtles, looking total -
noon on - He watched one from
12 - 6:30 when he left.

4/29/77
FRIDAY

TO SLP with A. KAM, A. BENEDICT -
INJECTED, TAGGED, MEASURED ALL TURTLES
FOR ^{AFTERNOON ~ 2 PM} RELEASE OFF 5 NEEDLES, LANAI -
4 (2 FROM AQUARIUM) WILL BE RELEASED
CLOSE IN TO KAMALAPAU AS PER
INSTRUCTIONS OF R. McOMBER,
SEAFLITE CAPTAIN - BOB JACKSON, CB-13.
BOB BOURKE WILL GO ALONG
DR. ALBERT BENEDICT
93 NIHIKI CIRCLE

TAG NO.

= 551

= 552

= 553

= 223

= 222

SEA LIFE PARK

= 554

= ~~554~~ 290

= 555

= 298

= 556

= 557

= 558

= 559

= 560

= 296

= 295

= 294

= 561

= 293

= 562

= 563

= ~~563~~ 290

= 564

= 565

= 566

= 567

= 568

Waikiki AQUARIUM 4/27/77

TAG NO.	Curved Measurement	Source	Notes	Photo NUMBERS	RETAINED
# 551 ^{rt clp}	7 x 6 ^{5/8}	TAHITI	TURNED IN FEW DAYS AGO - PERFECT	#1-6 dorsal only - lost ^{ventral}	RETAINED
# 552 ^{rt clp}	7 x 6	MARSHALL IS.	Like IPATOII	#7-10 w/ lost ^{ventral}	RETAINED
# 553 ^{rt clp}	6 ^{7/8} x 5 ^{7/8}	SLP HAWAII	2nd & 3rd may left JOINED IN ROW	#11-24 w/ chins	EL LANAII RELEASE
# 223 ^{rt clp}	5 ^{3/4} x 4 ^{7/8}	" SLP			? LANAII RELEASE
# 222 ^{rt clp}	5 ^{7/8} x 4 ^{7/8}	" SLP		#25 → Alan	
FRIDAY APRIL 29 th 1977					
SEA LIFE PARK ^{rt clp}			Feed: trout chow 1:1:1 squid shell	All RELEASES INJECTED WITH ANTIGEN BY A. BENEDICT	LANAII RELEASE
# 554 ^{rt clp}	8 ^{3/4} x 7 ^{3/8}				
# 555 ²⁹⁹	7 x 6	Released with 2 Waikiki Aquarium Turtles by Al Comber Reef			
# 555 ^{rt}	7 ^{7/8} x 7			4/29/77	
# 298 ^{rt clp}	5 ^{1/2} x 4 ^{3/4}				
# 556 ^r	6 ^{3/4} x 5 ^{1/2}				
# 557 ^r	8 ^{1/8} x 6 ^{3/4}				
# 558 ⁿ	7 ^{1/4} x 6 ^{1/8}				
# ^{288 lf.} 559 ^r	7 ^{1/8} x 6 ^{1/8}				
# ^{297 lf.} 560 ⁿ	7 ^{1/4} x 6 ^{1/4}				
# 296 ^{lf.}	6 ^{1/8} x 5 ^{1/2}		long front flippers		
# 295 ^{lf.}	6 x 5 ^{1/4}				
# 294 ^{lf.}	6 ^{1/8} x 5				
# ^{287 lf.} 561 ^{lf.}	7 ^{3/8} x 7 ^{1/8}				
# 293 ^{lf.}	4 ^{7/8} x 4 ^{1/8}				
# 562 ^r	7 x 6 ^{1/8}				
# ^{292 r.} 563 ^{lf.}	8 ^{1/8} x 6 ^{7/8}		vigorous active large body		
# 291 lf.	4 ^{3/4} x 4 ^{1/8}				
# 564 ^r	5 ^{7/8} x 5 ^{1/4}				
# 565 ^r	6 ^{3/8} x 5 ^{5/8}				
# ^{224 r.} 566 ^{lf.}	6 ^{3/4} x 5 ^{7/8}				
# ^{225 r.} 567 ^{lf.}	7 ^{1/2} x 6 ^{1/4}				
# ^{289 r.} 568 ^{lf.}	7 ^{3/8} x 6 ^{7/8}		thick body		

5/4/77 DEPART FOR HILO-KAU FOR A. HOWARD
 WEDNESDAY TURTLE NET TEST; ALOHA Flight -
 0800 VIA MAUI - NOTED RESORT AT W. END

MOLOKAI, MOMOOMI BEACH; SAND BEACHES OFF
 OF KAHULUI AIRPORT (ADJACENT TO GOLF COURSE).

called FG
 HILO
 ~TPM

HEAD IN
 HAWAII -
 MR. IGNOSIO

Rented Budget Toyota in Hilo - drove to
 Punaluu (stopped for coffee at Volcano) -
 Saw Jeanette Howard at gift shop - very low
 tide, Punaluu Bay exposed - collected some
 algae. Met with Mr. Howard and loaded
 Jeep with 7 nets, gear. ~1230 PM

Drove to ~~Kadavale~~ Kadavale - about 9 miles
 off main road. through three cattle gates;
 Set two - 2-net sections. Observed
 juveniles in surge bay and in adjacent
 South bay.

* note - Mr. Howard heard that "Lond to
 the Sea" adjacent to Asam property,
 Kona side, has recently been closed.
 Also that turtle fishing at Turtle
 Bay has been taking place - today.
 "Andrez".

Collected algae at locations of each
 net set - photo of fine red.
 Mr. Howard saw tracks from
 Lond leading to sea, about one
 week ago. Probably was one of
 turtles he'd put there after tidal wave.

Note - in two day after full moon.

5/4
Wed.

Note - on way to Kalewaleu posted locked gate to Kawa.

Consider making twine throw net - Mr. Howard's friend.

Howard says large turtles have yellow fat.
YES - in mesenteries of intestines 5/27/69 GHB

Alika hauled flat bed truck load of turtles out of Kalewaleu in 1968-1969. Santos and Mr. Howard laid nets at Kalewaleu 3-4 years ago.

5/5
THURS.

cattle
ramp

Arise at 4AM - to Kalewaleu found two turtles in one net; one turtle in other net.

tide low. Turtle scurled but able to get to surface to breath many breaths; all the turtles were big, must have gotten caught during night - feeding (?). Difficult to get nets in and out; takes alot of time to straighten nets.

* Need Inver Tube w/ plywood on bottom - also iron billets for anchor.

Went skin diving in sea - not many fish; limu mostly close to shore.

5/5

Thurs (con)

*

5/6
FRIDAY

5/5
Thurs (cont.) Drove to Green Sand beach.
Joe Endrey catching turtles - been here many years.
Notes Turtles washed ashore by tidal wave.

Turtle blood in water - turtles won't come around for a long time.

Note fright response, apparently visual of small turtle in 'foam surge area'.
Saw us(?)

Mr. Howard notes that big turtles come into cove and chase off smaller ones for feeding.

Note Contact with air and current.
* → Sumda restaurant - turtle on blackboard menu.

5/6
FRIDAY

up at 4 AM to Kaaluahe - nets set off "cliff" by surge channel deeper water. "rock" noted to have the red fine filament alga covering it. Other joined up set at loc 2 area, but further inside bay to get out of waves.
"Cliff" set found to have two turtles - one small, one medium - small one appeared to have hard time.

5/6
FRIDAY
(CONT)

Got turtles out right away. To second set (Loc 2 area)

3 turtles found - all medium to bigger.
Many photos in tube, twisted with net,
close up of head, etc.

Measured, tagged, etc. everyone and let all
go in Loc 2 area.

Picked up lobster net and returned all
to Punaluu.

Notes - May prove easier to roll nets
on log or bamboo.

Mr. Howard notes that possibly up
into 1950's many nets were set at
Laiea - also they had a ~~net~~ "Turtle
House" there.

Temperature 22°C Maki Cow ^{KAA/UAU} outways 22.5°C

Mr. Ito will make a throw net of
Dacron (I have sample) for \$50.00 lead
included. Need to send him two spools
of line.

Notes

Mr. Howard indicates that sometimes
turtles are in groups in coves,
sometimes not.

It "seems" apparent from setting
of nets that turtles are feeding
either very late afternoon, very early
morning, or at night.

ABRASION / Red spots / stiff limbs on some
of the turtles caught on this date.

5/6
(Friday)

called
Eg.
2/130

-230

5/7
Saturday

5/6
(Friday)

Note that examination of mouths of larger turtles revealed clean white - smaller intermediate size - dirty green (two from "Cliff" green sand cove had limu-stink breath.

called
EG
~ 1:30

Note - that limu may be seasonal, come and go.

~ 2:30 PM

Alan and I went to Turtle Cove - no turtles inside - but Alan saw one out a ways. Uncovered two juvenile carcasses - under rocks - found dried plastron, drying head - recovered stomach sample alga - photos taken - Recovered plastron Bones. Consider Sanctuary for Cove -

UV TV in Cove

Good words for Mr. Howard -

Nelson Santos - Helicopter (?)

5/7
Saturday

Two sections of net set in Punaluu Bay ~ 5:30 PM. Check at 9:30 PM - nothing. Awoke at 5:30 AM - checked net and found three. Removed net about 7 AM - all three are large - a number of local people came around to watch. All released from ramp by 9 AM. A few scratches, but not much abrasion. All seem to have bad limu stink breath.

Surface - 23°C } PUNALUU
~ 8' Bottom - 24°C }

5/7
Sat.

Notes - June - Oct. hammerheads in Kaneohe, don't set nets.

- Mokuieia - turtles in shore (Oahu) late afternoon
- Larea - flat island - turtles
- Puna - old report of basking on beach
- Pontoon boat - breakdown - four heads came to Lualua, all around to kill turtles to send meat back to Maui. Mr. Howard called FG, they did nothing.

- Mr. Howard records that male's shell has different shape, color (and speckles)
- note story about him catching large turtle, asking Brewer about buy because they expressed interest in stuffing one for their Museum. Couldn't find someone to stuff \therefore sold for ~ \$2500 (possibly front man for Joe)

- Howard used detachable harpoon in Kaneohe Bay
- Howard learned hook method from Joe - Joe from Hawaiians, Mr. Itō been here 56 years ^{70 years old} - old Hawaiian use hook - not net. Many Japanese won't eat turtle - let go.
- deposits should be made late in afternoon.

DISCUSSED MONEY WITH MR. HOWARD
 - \$30 each for net
 - \$90 for 4 hour net

5/7
SATURDAY
12-2 PM

UNIVERSITY OF HAWAII
 Hawaii Institute of Marine Biology
 Coconut Island • P. O. Box 1346 • Kaneohe, Hawaii 96741

2 PM

- Dennis Santiago - KAIMUKI INTERMEDIATE

- SEND BOOK TO DOTY

- my book to AIMARZA 75

- NELSON Santos

5/7
SATURDAY
12-2PM

Mr. Howard drove us up to road going to KAWA, walked back into bay past survey(?) marker; many housesites, glove sites.

Mr. AKUMA controls land getting into KAWA. First inlet ~~has~~ had old turtle bones, plastrons collected. Second inlet had very large waves; photos taken of Howard, and of whole inlet from high ground. MR. HOWARD belongs to KAU SPORTSMAN CLUB.

- NOTE - "

That "HORSESHOE" has holes that can be reached easily at low tide.

Also there are holes along shore adjacent to "two islets". Mr. Howard reports that many turtles feed in white foam water by two islets (inside). Can't be reached by snog fisherman.

- NOTE that known "sleeping" holes have been known for a long time - as per Mr. Ito. also that when turtle is removed, another one moves in.

- Note that collapsible sign is needed to indicate research in progress.

2PM

Loaded wagon for overnight stay at Kaalyaku. On way down noted that Kahuku ranch is on right of road. Note oceanview subdivision - telephone poles - reclaimed by state or county and parcels auctioned. Kahuku ranch post

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76

2-cotton nets - 62' long - 26" eye - 14' wide
 2-nylon nets - 73' long - 18" eye 12' wide

5/7
 Sat(cont)

there has lava tube holes with petroglyphs at entrances, as per Mr. Howard.

5/7 (cont)
 Sat.

Hawaiian ranch used to be Brewer (burned house), but now taken over by PARKER RANCH. This is left side

of road going down towards KAALUALU. Some cows I have cut ears; bed flies - in eyes

5/8/77
 SUNDAY

A Mr. KAPU lived at Kaalualu for many years - moved to Honolulu ~ 13 years ago, just after Mr. Howard moved to Lualaba.

Note that Mr. Howard & Alan saw parasite "holes" into plastron. (bore holes?)
 check at seawards

Gave Mr. Howard
 book for her.

Note that turtles beak/nose on several was banged/abraded.

Sea water at Kaalualu check at PPS

Recorded
 5/8

Sunday
 morning

- 22 1/2°C surface
 - 23 1/2°C bottom

Arrived at "cow chute" peninsula of Kaalualu - set up camp by tie wind breaks - three car loads of Philippine gill net fishing - from Philippines! They left, joined all four sections of net together, swam across bay and laid net not far from loc 2 previous set

5:15 PM

5/7 (cont.) Collected some limu samples on the way
 Sat. back. Several cars came down - including
 yellow Mustang, My wheels up in back - decal in back
 window - out by low, shute, also tent up by
 "green cave" - possibly night divers in another car.
 Hard to see net where ^{we} were camped.
 Nothing by dark.

5/8/77 At first light, saw five turtles in nets -
 SUNDAY also found hole near surface - possibly
 turtle escaped.

Took data on turtles and departed -
 stopped at Mrs. (Grandma) Sakamoto (son-in-law
 Charlie Doi) for coffee and pineapple cake.


Gave Mr. Howard
 book for her.

She took me that her ~~mother~~ mother
 (two initials) used to get turtles and let them go,
 ~ 1920. Honiapo - hard luck to kill;
 turtles live a long time. Later generations
 of Japanese lost this part of culture in Hawaii.
 On way back to Puuvaluu, Mr. Howard
 mentioned that turtles have been shot at
 Kawa (some by kids); also at Puuvaluu turtle
 cave. Hit turtle in "wing" with .22
 makes it spin/swim in circles.
 Howard mentioned that after study at Puuvaluu, a
 game warden came down.

Washed nets - drove to Hilo - stopped
 at Sumidas - (Enterprises: fish cake, Restaurant,
 Bar, Frozen foods) - NOT on menu - "Black"

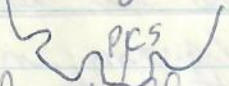
board in dining room -
 5:15 PM DEPART HA for Honolulu direct

WSCONEL

TAG NOS.	DATE	Loc 1	
2131 RFL	Thurs 5/5/77	KAALUALU	S 34 $\frac{1}{4}$ x 25 $\frac{1}{4}$
2132 LFL		NET	C 36
2133 ^{LF}	(Photos in Net)		Plastron S 27 $\frac{1}{4}$
2134 ^{RF}	Second lateral Right has large indent, "pock" ♀ tail, but Mr. Howard says looks like male Groove/notch in marginal		
2135 LFL	5/5	KAALUALU	S 29 $\frac{7}{8}$ x 24 $\frac{1}{2}$
2138 ^{LF}		NET	C 32 x 31
2139 RFL	(Photos of head)		Plastron S 23 $\frac{7}{8}$
2140 ^{RF}		GROOVE - hook caught(?)	Right PC off - notch in lost marginal left

♀

TAG NOS.	DATE	Loc 2	
2141 LFL	5/5	KAALUALU	S 31 $\frac{1}{4}$ x 23 $\frac{5}{8}$
2142 ^{LF}	Thurs	NET	C 34 x 30 $\frac{1}{2}$
2143 RFL			Plastron 23 $\frac{3}{8}$
2144 ^{RF}	Tail from plastron 7 $\frac{1}{4}$ " Thick bodied, long nails on hind flippers. ♀		

Photos of whole turtle 

(Carapace irregular on each side)

TAG NOS.

DATE

LOCAL AREA

2145 LFL

FRIDAY 5/6/77

KAALUALU

S 20 x 16

2146 RFL

NET

C 2 1/2 x 20

Plastron - 16 1/8

TAIL from Plastron - 3 3/4" weight - 36 lbs

Photos with wadded up net -

Subsequently captured 1/21/78 Kaalualu see page 30
other data book.

2147 LF

FRIDAY

LOCAL AREA

2148 RFL

5/6/77

KAALUALU

S 22 1/2 x 18 3/8

2149 LFL

NET

C 24 3/8 x 21 5/8

Plastron - 17 3/4

TAIL From Plastron - 5"

Appears to be "new growth rings" on laminae

2150 LFL

FRIDAY LOCAL AREA

5/6/77

S 27 7/8 x 22 5/8

2151 RFL

C 29 1/4 x 28

2152 RFL

Plastron - 21 5/8

Eight marginals on right has small piece missing - also left hind flipper has missing piece - as per

LEFT
HIND

TAG NOS.

DATE

2153LFL 5/6 KAALUALU S $23\frac{1}{2} \times .18\frac{7}{8}$
 2154RFL Friday Net C $25\frac{1}{4} \times 22\frac{7}{8}$

TAIL - $4\frac{1}{4}$ Plastron - 19"
 Five Laterals on Right - (4th divided in two)

2156RFL 5/6 KAALUALU S $16\frac{1}{4} \times 14$
 5001LFL Friday C $17\frac{1}{4} \times 15\frac{3}{4}$

TAIL - $2\frac{3}{4}$ Plastron - $13\frac{1}{8}$
 This turtle more gold in color - possibly
 hurt left front limb. All other turtles
 categorized as dark shells.

Tags and note mailed
 from Volcano on 19 May states -
 "These are from a turtle taken at
 Kahaloua Bay KAUI May 14, ¹⁹³⁷ the
 shell was about 18 inches from
 front to back"

TAG NOS.

Date

5002 LFL 5/7/77 PUNALUU Bay
 5003 RFL Saturday net
 5004 RFL
 S-28 x 22
 C-30 1/2 x 28 3/8
 Tail - 7" Plastron - 22
 Thick Body - ~6th marg. Right - Depression / old injury
 Dark shell

5005 LFL

5/7

PUNALUU Bay

5006 RFL

Saturday

net

5007 LF

S-30 x 23 3/8

C 32 x 28 1/2

TAIL - 7 1/2"

PLASTRON - 24 1/2

Dark shell

Photo of plastron - 39 on RZ-36

TAG NOS.DATE

5008 RFL
 5009 LFZ (3)
 5010 LF
 5011 RF

5/7/77 Punaluu
 Saturday Net

ENT. # 280

6/19/84 East FFS
5008S $32\frac{3}{4}$ x 25C $34\frac{3}{4}$ x 31TAIL - $7\frac{1}{4}$ PLASTRON - $25\frac{3}{4}$

Dark shell - Photo of Plastron - By me, Al, Howard
 PC - posterior of carapace looks pointed

LOC 2 - 4 nets

2141 RECAPTURE 5/8/77 KAAHUALU
 2144 RF SUNDAY

5012 RFL
 5013 LF
 RELEASED RIGHT AFTER putting on new legs to
 replace missing ones - apparently came off
 while tangling/struggling in net.
 Caught on net closest to shore.

originally caught at loc 2 on 5/5/77 Thursday
 Dark shell

TAG NOS.Date

5014 RFL

5015^{LF}

LOC 2 - 4 nets

5/8/77

KAALUALU

SUNDAY

S $18\frac{1}{8}$ x $13\frac{5}{8}$ C $19\frac{3}{8}$ x $16\frac{1}{4}$ TAIL - $3\frac{3}{4}$ "PLASTRON - $14\frac{3}{8}$

photos w/TAPE Roll - 36

Caught in net close to shore

Dark shell

5016 LFL

5017^{LF}

5018 RFL

5019^{RF}

LOC 2 - 4 nets

5/8/77

KAALUALU

SUNDAY

S $35\frac{5}{8}$ x $26\frac{7}{8}$ C $38\frac{7}{8}$ x $35\frac{7}{8}$

TAIL - 10"

1 BARNACLE ON 2ND LAT. Left

- LOOKS VERY THICK BODIED.

- Caught in very middle of four nets

- Right front ventral shoulder ventral - sm TMR

- Right hind ventral - knot/tumor growth(?)

DARK shell

~~DATE~~
TAG NOS.DATE5020^{RF}
5021RFL
5022LFLLoc 2 - 4 nets
5/8/77 KAALUALU
SUNDAY

S 28 x 22

C 30 x 27³/₈TAIL - 5³/₄PLASTRON - 22⁷/₈Right Front Flipper end partially missing - healed.
Photos with ALAN, HOWARD, me alone.5023LFL
5024RFLLoc 2 - 4 nets
5/8/77 KAALUALUS 17 x 14¹/₄TAIL 3⁵/₈C 18 x 17¹/₈PLASTRON - 13⁵/₈

photo of HOWARD RELEASING TURTLE

<u>DATE</u>	<u>LOCATION & SETS</u>	<u>TURTLES by length</u>
5/5 Thursday	KAALUALU ^{2 nylon} LOC 1 _{2 cotton} LOC 2	(2) 1-34 $\frac{1}{4}$ " 1-29 $\frac{7}{8}$ " (1) 1-31 $\frac{1}{4}$ "
5/6 Friday	KAALUALU ^{2 nylon} LOC 2 AREA _{2 cotton} GREEN COVE	(3) 1-20"; 1-22 $\frac{1}{2}$ "; 1-27 $\frac{3}{8}$ " (2) 1-23 $\frac{1}{2}$ "; 1-16 $\frac{1}{4}$ "
5/7 Saturday	PUNALUU ^{2 nylon} (2 sections net)	(3) 1-28"; 1-30"; 1-32 $\frac{3}{4}$ "
5/8 SUNDAY	KAALUALU LOC 2 AREA (4 sections net)	(5) 1-RECAP; 1-18 $\frac{1}{8}$ " 1-35 $\frac{5}{8}$ "; 1-28"; 1-17"

16 CAPTURES
15 TURTLES

Notes after Trip

1. Aerials very soon around islands ^{high tide in afternoon}
2. Helicopters - Santos / Walker / Col. Phillips
3. Access to Jerry Asam - Rd to Sea
4. Access to Kawa
5. Assistance from Fish and Game
6. Report to Fish and Game - include Kamaikoi
- ~~7. Check old Howard P.O. / Fill out Net P.O.~~
- ~~8. Booklets to Santiago, Doty, Santos, AIMARZA, ^{BIG IS} _{FS}~~
9. Sumida - Indez problem
10. Mend turtle nets
11. Signs for research
12. Sanctuaries / no use certain kind of nets
in certain feeding postures.
13. Pliers to flatten tops
14. Short article on tidal wave effect on turtles
15. Article on hawksbill in Hawaii
16. Barkley - currents from Mexico

Kaimuki Intermediate School

734-2188

631 18th Avenue

96816

wed
18 MAY
1977

- outgoing tide - calm - clear
SCUBA dive at Hanauma Bay at ~10PM with
Kam, Junker, Rob. I caught one turtle
sleeping soundly under coral ledge. It took
a while to wake up. Photos by Junker.
Junker saw another smaller one sleeping
photos only. Sight of capture on
chart.

C $21\frac{1}{2}'' \times 19''$
Dorsal length - $17\frac{1}{2}''$
Tail - $3\frac{7}{8}''$

2161 LFL
2162 RFL

2023 Blue Plastic
halfway out Right^F

Some algal growth on shell -
breath smelled like Amansia sp.

Thurs
19 May
1977

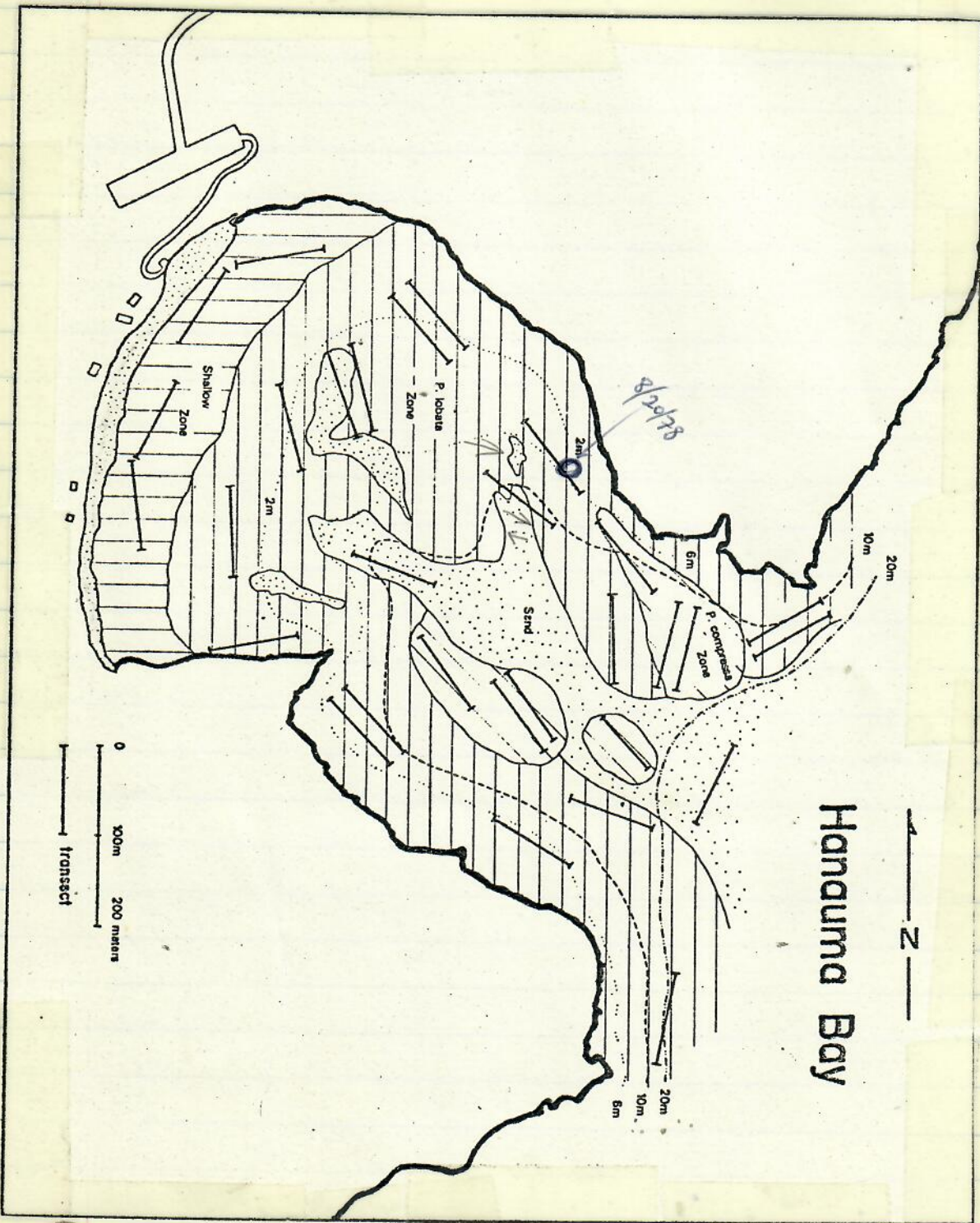
outgoing tide
SCUBA dive at Hanauma Bay
~9:30. Saw 2023 Blue^F resting in
same general area - moved slowly off.
No other turtles seen.

15 MONTHS ELAPSED

SUNNY
20 August
78

clear - calm
water
incoming tide

Reported by Mark Junker-Jean Kramer
at ^{1:30} Hanauma Bay - metal tag seen on left -
2 PM observation - sitting up on coral
head - swam off when he approached -
No metal tag noted on right flap - however,
may have been there. Approximate location
marked with a circle on chart →



1/19/76 - 2/1/77

ALBATROSS KURE BIRD BANDS - Dead

1. 737-90703

2. 587-91550

3. 737-95121

4. 767-52046

5. 767-54205

6. 737-96236

7. 737-46087

8. 737-47110

9. 737-47006

10. 767-52138

11. 767-49489

12. 767-52332

13. 737-93239

14. 737-99345

+2 unrea
ableSentin
2/3/77

1/19/77 - 2/1/77

KURE

TURTLE TAGGINGS

DATE, TAG NOS. straight CURVED OBSERVATIONS

1/21/77 2083, 2084 23³/₈ x 18¹/₂ 25 x 23 Generally dark

① shell; polysiphonia neck; hind flipper area; split postocular on one side; captured in hole/under ledge near S point.

1/22/77 2085, 2086 15⁷/₈ x 12⁷/₈ 17 x 15¹/₈ Polysiphonia

② ends of both front flippers show necrosis, fore showing, looks pathological. shell somewhat gold-burst

1/23/77 2089, 2091^F 18¹/₈ x 14¹/₈ 19¹/₄ x 16³/₄, caught 1st deep area from S point; dark shell - Polysiphonia tissue sample taken. ^{Tas in mouth?}

1/23/77 2087, 2088^F 20¹/₄ x 16¹/₂ 21³/₄ x 20³/₈ very dark shell (photo roll 1) ~95% black pigments; captured S point, E side; Polysiphonia; tissue sample taken. ^{Tas in mouth?}

1/23/77 2090, 2092^F 17 x 14 17⁷/₈ x 16¹/₄ Gold shell, captured S-point E side, polysiphonia, tissue from hind limb. ^{Tas in Mouth?}

1/23/77 2093, 2094 17¹/₂ x 14¹/₈ 18¹/₂ x 16⁷/₈ caught S point, E side; Gold shell, ends of both front limbs, show necrosis like 1/2 turtle. photos. ^{Tas in mouth?}

1/27/77 2095 LFL ~~11~~ 11⁵/₈ x 10¹/₄ c 12¹/₄ x 12 link coralline alga on carapace; section of right post central missing; captured at diving location #6 (on chart) - deep hole - captured at beginning of dive swimming slowly - in ~10-15' water in crevice of routes coral. showed no

Date

27 CONT

1/28

⑧

1/28

⑨

1/30

⑩

2092 and tog

1/30 ⑪

Date 1/27 cont. Tgg Nos. straight curved Observations
 fear peasy to capture. Photos of head by Mark underwater - also with me holding -
 underwater and in boat. Very clean shell and skin.

1/28 (8) 2096 RFL; 2097 LFL $17\frac{1}{8} \times 13\frac{5}{8}$ $18\frac{1}{4} \times 16\frac{5}{8}$
 Scoop netted at ^{at sunset} S point close to shore, terrace of man-o-war ^{hanging} from mouth; Carapace nearly all dark with algal growth and imbedded sand. Polysiphonia all over skin. South wind (moderate) blowing; 7/8th and 11th marginal right have indentations.

1/28 (9) 2098; 2099 $19\frac{3}{8} \times 15\frac{7}{8}$ $20\frac{3}{4} \times 18\frac{7}{8}$
 Scoop netted at sunset at S point (same as above) close to shore, terrace of man-o-war ^{hanging} from mouth. Mostly dark carapace with algal growth and imbedded sand; Polysiphonia all over skin. Right hind limb has injury as - healed completely

1/30 (10) 2100, 2101^F
 $S 22\frac{1}{2} \times 18\frac{1}{8}$ $C 24 \times 22\frac{1}{8}$
 Scooped netted as sun setting at S point; Not apparent that it was feeding on man-o-war; feeding on bottom? Mostly all dark carapace; Polysiphonia

2102
 Bad tag

1/30 (11) 2103; 2104^F $S 16\frac{3}{8} \times 12\frac{7}{8}$ $C 17\frac{3}{8} \times 15\frac{1}{4}$
 Scooped by Mark - same as 2100, very

$\frac{1}{30}$ CONT. | active, bitter. Mostly ^{straight} dark carapace; ^{curved} Polysiphonia

$\frac{1}{30}$ [2105; 2106^F $18\frac{1}{8} \times 14\frac{5}{8}$ $19\frac{1}{8} \times 16\frac{7}{8}$
 Scoop netted at 5 point; all same as above;
 (12) Mostly dark carapace, but some good rays;
Polysiphonia

KURE 1/19/77 - 2/1/77

TURTLE SIGHTINGS

DATE	LOCATION	Number / size	Comments
1/19/77	Along E side of Island	5 (4-Juvenile, 1-subadult)	Feeding on floating matter.
1/20	South point	5-6	Some very small feeding?
1/21	S point / E side	1 - 23 3/8" caught 2 smaller seen	
1/22 SAT.	E side	1 small caught	No others seen
1/22	S-point	6-7 seen in close	SUNSET and after
1/23 SUN	S-point	3-4	in close at 0830 - ~0915
1/23	S point		only one far out, at 5:30 PM
1/24	S point		only one small 9:00 AM
1/24	1st hole from S point		one swimming ~3 PM
1/24	S point, along E side	three juvenile	one seen eating "codium" like
1/24	N point, end	NONE seen, however	numerous shelters
1/25	S point	4-5 in close	really rough
1/25	E side by Doc's shack	3-4	just at sunset
1/25	S point		very rough - 3-4 feeding just at sunset
1/25	E side from S point		walked with light along beach - NO TURTLES SEEN (after sunset-dark)
1/26	E side by Doc's shack	1 juvenile	on reef flat
1/26	S point		Several visits during day - only one seen, ever seen
1/27	S point		morning - looked and dove - nothing
1/28	S point		late afternoon / sunset - 3-4 turtles actively feeding on man-o-war
1/28	Dive area #7	1 from boat - 1 underwater	maybe same two in 18" estimate (?)
1/29	By pier - West side		report of one juvenile seen
1/30	1/2 way to dump on W side		on coral patch - one juvenile about 3 PM - SW wind on NW
1/30	S point - late afternoon	3-4-5 (?)	juveniles
1/31	S point in morning		no sightings

1/19/77 - 2/1/77

KURE

DIVE LOG

DATE	LOCATION	ACTIVITY/COMMENTS
1/20/77	"Trench" - loc. #1 on chart	General survey of area, ^{mostly sand/sediment bottom} alinglant - samples taken, only large coral head with many lobsters - 1 cylinder of air. Doc, Jerry + 2
1/21/77	Free Dive - S point to beach shack	ACROSS runway from LORAN to past wind sock
1/22	S-point and 1st deep area	only several "holes" numerous "holes" present "shelter"
1/23	S-point and 1st hole	1 SCUBA each, - many holes
1/24	Towards N-point	1 partial SCUBA each - Turbidity
1/24	Hole "one" reef edge	many shelters - NO turtles seen
1/26	South point	20 min Turbid - Skin Dive ~ 20 minutes - no turtles seen
1/27	location #5 on chart	SCUBA 10:30 AM out along reef edge NO turtles
1/27	location #6 on chart	1 SCUBA - mark out the NO turtles
1/27	location #7 on chart (only probable)	1 SCUBA - mark, Jerry, JV. MANY fish - PORITES -
1/28	location #8 on chart (end of deep hole)	Mark, Jerry, JV. 1 SCUBA each late afternoon ~ 7:30 PM
1/29	location #9 on chart (solis, forms breeding summer)	same people 1 SCUBA each. "Bots" in boat - 2 PM

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