

1980 & 1991  
MIDWAY-KURE  
G. H. BALAZS

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11-13 MARCH 1980 - MIDWAY-KURE USCG  
24-26 MARCH 1980 - KURE-MIDWAY USCG  
26-28 AUGUST 1980 - MIDWAY-KURE USCG  
16-17 MAY 91 KURE - USCG

11-13 MARCH 1980 - U.S.C.G. C130 - KURE/MIDWAY <sup>2 captures</sup> EASTERN ISLAND Pages 3-17  
24-26 MARCH 1980 - USCG C130 w/c. MIDWAY/KURE <sup>5 CAPTURES</sup> (I was recovery) pages 19-35  
(5 juvenile captures p27-31) (with tow)  
26-28 AUGUST 1980 USCG C130 - MIDWAY/KURE <sup>3 captures</sup> EASTERN IS. Eastern I was recovery pages 40-50  
16-17 MAY 1991 USCG C130-KURE p.54-



## COMPOSITION BOOK

9¾ IN. x 7½ IN. (24.8 cm x 19 cm)

AVAILABLE AS:

No. 09-9130 (1130) 60 SHEETS COLLEGE RULED & MARGIN  
No. 09-9132 (1130-P) 60 SHEETS COLLEGE RULED & MARGIN  
No. 09-9134 (1143-X) 100 SHEETS COLLEGE RULED & MARGIN  
No. 09-9132 (1130-P) NUMBERED PAGES

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1980 AND 1991

G. H. BALAZS  
MIDWAY  
KURE

## Midway Personnel:

ENSIGN JEFF IMMEL - Game Warden

ET3 BRANDY BOYAK - ASST. Game Warden

Commander Martin KUHNEMAN - CO Midway

Sam<sup>A</sup> Copper - XO

Scott Gilliam - KK PRESIDENT

11 MARCH 1980 Depart Barber's Point USCG Base 0830

TUESDAY

aboard C-130 - <sup>LT Com Greg Westrup</sup> Lt Bill Porterpersonnel include A. Kam; C. Harrison; J. Ludwig;  
Kure man - <sup>CWO</sup> "LELAND"; two Navy <sup>Security Personnel</sup> 1 and  
Security dog.

Flight plan calls for 2-3 hours on the ground at Kure -

Objectives at this site include:

- 1.) Meet CO. <sup>(J. G. Farrell)</sup> and some personnel - inquire about observations made of turtles and tiger sharks; (Sand Islet & Green)
- 2.) Dive reef flat areas at South Point and off wind sock to capture turtles resting at these sites;
- 3.) Assess abundance of food sources -

11 MARCH 1980  
TUESDAY

3. CONTINUED (Invertebrates & algae)

- 4.) Record seawater temperature;
- 5.) Make miscellaneous observations of island wildlife - monk seals, birds, polynesian rats, as well as adherence to regulations, expansion of station to house female personnel.

Objective of visit to Midway:  
Flight plan calls for evening of 11 March, all day and evening of 12 March at this location.

- 1.) Meet Scott Gilliam, KK President; review KK tagging records, retrieve tagging pliers, tags, calipers and any other remaining miscellaneous gear.
- 2.) Survey and dive select locations to capture turtles - specifically -
  - a.) Rusty Bucket
  - b.) Green Light
  - c.) Inner Harbor
  - d.) NAVFAC - Frigate Point

11 MARCH 1980  
TUESDAY

- e.) #1,000,000 dump area
- f.) South reef flat of Eastern Is.
- 3.) Make miscellaneous observations of other wildlife.

Landed at Midway ~ 12:45 PM - took aerial photos of Pearl & Hermes and Midway.  
 Ingraded/dog at end of runway along with two Navy security people - 1 Man & 1 Woman. I walked over to seawall - no turtles noted - air is warm - seas calm.  
 Depart Midway at 1:10 PM -  
 Landed at Kure at 1:30 PM.

Warrant Officer for Kure has Chart 19483 which shows 1977 Japanese wreck on reef.  
 He indicated that he walks beach 2x day - weekends 4x day - entire island - has never seen a turtle, has been at Kure for 6 months.  
 Met CO Jim Farrell - only researchers out here I hope been Karl Kenyon and Craig McDonald. Some of his men have been scuba diving - some turtles sighted.

11 MARCH 1980

TUESDAY

He will fill out sighting forms and send them to me.

One of the USCG Kure men indicated that he had seen a turtle hauled out this past Sunday at North Point. Also, about a month ago, a turtle hauled out by pier - both returned the water when disturbed - both were juveniles to subadults.

Proceeded by pickup truck to South Point - lots of tar-oil globules on beach.

Noted *Janthia* (pelagic snails) shells on beach -

current running strong.

Dive surveys, at first area proceeded along reef flat - no turtles seen.

At South Point, mother seal was present with pup soon to be weaned. Past beach shack, noted dead thin adult and healthy adult.

At Wind Sock, surveyed area out to reef flat - did not find deep cut where turtles have previously been seen sleeping. Departed from Kure at 4PM - note that Gil and Ted

collected drifting alga - large, red, fleshy - presumably *Ja. Halymenich*

11 MARCH 1980

7

Tuesday who work in Dr. Whitlow's seabird project boarded plane at Midway. Flight by Midway allowed photos to be taken of Sand Tard Eastern Islands. Copilot-pilot is Greg Westrup (2 bars - Lt Comm.). Land at Midway - 4:25 PM.

Signed into room S-3. Proceeded to Cargo Pier - Fuel Pier - KK Club - (closed, no one around). Walked along beach past skeet shooting area to inner harbor - along north side of inner harbor (only one tub present) to ramp, past special services and back to Midway Mall.

Gil and Tom report that they have photos of two turtles feeding on Man-of-war along seawall by Cargo Pier. Craig and Jerry saw juvenile off O-beach. Albatross young are about 3 groups - a few fairy terns are present.

~~Went to the store to buy some supplies for the consolable~~  
Store - ~~at the~~

Ate dinner at Ironwood Cafe - \$12.90 for both of us. note \$1.90 spent for WSCG box lunches.

Had a drink at officers Club - Jeff Emmell - Craig - Jerry. Whitlow's people were there.



12 MARCH 1980 Awake ~ 8 AM - coffee at  
 WEDNESDAY Mess Hall; Visited seabird lab  
 at Cannon School - Gil and  
 Ted; Called Scott Gilman  
 Ted mentioned that they have collected  
 some plastics regurgitated by adult  
 albatross. Ate lunch at mess hall - \$1.95  
 Proceeded to Rusty Bucket with chive  
 gear; watched for turtles for ~ 20 miles;  
 snorkeled area for ~ 45 minutes; no  
 turtles seen.  
 Proceeded to Koral King - along seawall  
 we observed two juveniles - I  
 jumped on one, but missed.  
 Scott readied 14 BW and motor -  
 trailer very rusty; Proceeded to  
 Eastern Island with Ted, Scott. 4 PM  
 Tied boat off at Pier at ~ 4 PM  
 Walked across island at picnic area  
 to cement block buildings -  
 Left gear at beach site and walked  
 down beach to the east where we  
 entered water and swam with prevailing  
 current to the west. Examined various  
 deep channels and ledges of coral.  
 At deep channel-hole I grabbed  
 a turtle sleeping under coral ledge - this  
 is the same site where turtles have been  
 seen and/or taken on just about every

Need BW on colony photo of S. Eastern IS.  
 Reef flat for marking turtle areas.

As Follows:

## MIDWAY ISLANDS

3/12/80 Wednesday

EASTERN ISLAND

2640 RFL

S-57.7 cm x 46.6

2641 LFL

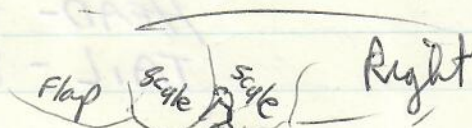
C-61.0 x 55.8

PL-47.3

HEAD-9.2

TAIL-11.5

60 lbs.

piece missing -  
old tag?

yellow scab over left eye.

lots of algae on skin - presumably Polysiphia.

2639 not in  
Series -These are tags recently  
reclaimed from EASY RIDER - shark(?)  
tag 2639 possibly used on

3/12/80 WEDNESDAY

Eastern Is. - South reef flat -

sleeping close to shore - near coral; calm  
water - took ~ 30 seconds to "make up" after I grabbed  
it by the head and neck.

2637

S - 48.7 x 40.5

2638

C - 51.4 x 48.3

PL - 39.5

HEAD - 7.6

TAIL - 8.1

34 lbs

Lots of algae on skin - presumably Polysiphonia  
Nothing in mouth - clean.

Seawater at KK ramp - 21.5°C

12 MARCH 1980

Copied from KK lobsters and turtle log:

2188/2189  $18\frac{1}{2} \times 16\frac{3}{4}$   $17\frac{1}{2} \times 14\frac{1}{2}$   $14\frac{1}{4}$  3" 29 $\frac{1}{2}$ lbs.  
 Along reef at Eastern 23 May 1978 Robert Davis

2190/2191  $19\frac{1}{4} \times 16\frac{7}{8}$   $18 \times 14\frac{1}{4}$   $14\frac{1}{4}$   $3\frac{1}{8}$  30lbs.  
 Wells Harbor 25 March? 1978 Dr. Rhea

2194/2195  $16\frac{1}{4} \times 15\frac{1}{8}$   $15\frac{1}{2} \times 12\frac{3}{4}$   $12\frac{1}{2}$   $2\frac{1}{2}$  24lbs.  
 Lagoon Tank - Reef Hotel 6 May 78 Losech

2196/2197  $20 \times 18\frac{1}{2}$   $19 \times 15\frac{1}{4}$   $15\frac{1}{4}$   $3\frac{1}{4}$  40lbs  
 Behind Spits 19 May 78 Jumped on by Means

Timothy Hahn  
 Wade Lyle → work at KK Dive Shop  
 Rick Solomon →

"Jefferis" - Vice President of KK

~~note~~ Request by Emmel for Wildlife photos - Material  
 for Bulletin Board -  
 I should request copy of "Game Warden" booklet  
 by Swedberg.

12 MARCH 1980 Wednesday

dive made at Eastern. Proceed along reef flat - observed about 5 more turtles only <sup>or two</sup> one of which was <sup>apparently</sup> resting - other were foraging on algae - one was seen by Kim to drop algae from its mouth - this was collected for identification - Species very dense cover along reef flat.

I captured a smaller turtle (2637/38) sleeping by coral edge close to shore - at western end of area surveyed.

Turtles were tagged, measured and released at ~ 5:45. While diving we saw Scott walking around island in search of glass balls - He did not see any seals.

Ted spent his time at Western end of island looking at Terns (gray backs and sooty) - (none seen on the ground at this time. However, I should notify Causey Whitton that Red-footed Boobies are starting to nest.

Also note that Ted does not think highly of SLP seabird exhibit - particularly the use of albatrosses.

While at Midway, Ted and Gil's petrel

\* sections of net could be put to good use at Eastern without undue monk seal problems.

12 MARCH 1980

WEDNESDAY

study area was run through by a "Cherry Picker" crane.

Houses, quarters, school is in shambles - very poor repair - vegetation growing on roof, faint peeling, serious mildew, etc. Bradley's old house, houses across from ITT building, and others have been torn down - albatrosses are nesting in some of these areas - Hagar-administration building in runway is being refurbished by a construction company from Washington state - also a new medical center is being built across from where Bradley's house used to be located.

Met back at Eastern pier at ~ 6 PM - proceeded back to Koral King - looked through dive log (copied a few ~~pages~~<sup>see</sup> page 110) - found some tags and the pliers - could not locate splinters that were apparently supplied by Kridler many years ago.

Earlier in the day I sponged under KK concrete ramp - this appears to be a good resting area for turtles - Need to use SCUBA here and under the Cargo Pier.

INLOVEL

2901 -  
2915Removed from  
KK

12 MARCH 1980  
WEDNESDAY

Ate Dinner at Ironwood Cafe  
with Ted, Gil, Jerry & Craig. They  
will camp overnight at Eastern on  
3/13 - return to Honolulu on 3/15  
Sat. MAC Flight.  
Ted and Gil will return to Honolulu on  
MAC in 2 weeks. \$16.00 Total

Note - that worn Laysan Albatross band  
was recovered from carcass found  
across the street from BOG.  
Dried skull retained

Aunt  
3/14/80 BAND Number - 667-35105  
(badly worn)

Book entitled - Double-Edged Secrets  
by Holmes, has sections  
on French Frigate Shoals - p59-62

→ Lt. Bill Porter has made two C-130 trips  
to Palmyra - I should get on  
list for next flight.

13 MARCH 1980

Thursday

Awake ~ 5:45 AM -  
packed gear and had it transported by  
duty driver in van.

Ate \$1.40 breakfast at mess Hall w/ Ted

13 March 1980 Thursday -

and Gil.

Departed Midway at ~8:25 am (local time one hour behind Honolulu time).

Heavy, low cloud cover to the east - could not see Pearl and Hermes Reef.

Saw Lisianski to the north behind clouds, but got a fairly good view of Neva Shoal. Photographs taken

of Laysan Island to the south - should turn out good. One photo taken at Maro Reef - reflection present in window (Note that all photos taken as near as possible to  $1/1000$  of a second).

3-4 photos taken at Gardner Pinnacles, to the south, shortly after talking to Ron on Easy Rider. Ron reports

that vessel SAN INEZ grounded between Lakerouse and Disappearing, needed to be towed to ~2 miles from Tern - gear shark. Cracks in seam of hull, as well as damaged screws. Vessel has been in Hawaii

about 2 months - fishing in area.

This brings up question of fishing in area of refuge - hazards. Also, what role will Tern play in salvage-rescue? Recall that Tern facility was not used when Keola lost engine. Ron requested that I



13 MARCH 1980 Thursday

→ call Lyfan Donaldson.

Made two fly-by of San Inez anchored to the SW of (Shayk). Photos + photos of shark showing seals.

Photo of Tern.

No communication with Bob and Sue. Photos of Trig and Whale-Skate as we flew by and started to gain elevation. Could see East Island to the right.

Noted ~3 basking turtles on Trig <sup>Jan 1980</sup>  
~2 on Whale-Skate <sup>Jan 1980</sup>

Need - to have xerox map of FFZ with colored in areas of courtship locations (or based on positions during subsequent radiotelemetry study)  
also need similar map for Midway.

High altitude flight to Barber's Pt. Uneventful except for smoke out of generate - number 3 engine turned off.

Need  
3/14/80

Need - Xerox of Kure Station booklet telling of 707 landing (for Wystem)  
also - need something to send to Bill Porter

13 MARCH 1980 Thursday

Also, need to send items to Emmel - request  
 sent Game Warden booklet. → ID sheets  
 → PING

On evening of 12 March, heard Midway TV news  
 clip about cowboy boot sales -  
 store in Mercedes, Texas shown - many  
 types of wildlife hides used - sea turtle  
 mentioned.

Fed mentioned that Jeff Emmel has heard of  
~~ping-pong shaped eggs washing on beach.~~  
 Also, report a "seacotter"

land at Barber's Pt - 1:10 PM (2:10 PM Honolulu time).  
 Drove home in <sup>Alvin's</sup> Kam's truck.

Recall - (fruit flies - white flies too?)

1) fly transfer from Midway - Kure via C-130

2) Honolulu - Laysan Island drops

and

VSCG buoy tender with turtle shells lying  
by exhaust stack. Source - Marshall Islands

Whitton has student named Stephens - for  
directed reading - works for Parish.

24 MARCH 1980 MONDAY

9 AM Depart for Midway - Kure, USCG, C-130;  
 to Barber's Point with Dr. Whitlow - State Car -  
 Commander Cunningham - Aircraft C.O.; Bob  
 Grant, Co-pilot. Passengers include  
 Lt Jg Whitting, new CO for Kure; Navy band  
 for change of command ceremony.

OBJECTIVES OF TRIP:

- 1. Tag and/or recover juvenile turtles at Kure
- 2. Reestablish contact with USCG Loran personnel/sightings  
of turtles - etc.
3. Gather additional information on food sources -  
collect additional algae
4. Fulfill obligations to Sea Grant project

11:30 AM - sighted Gardner's Petrels from  
high altitude out the left side  
of aircraft. Saw portions of P&H  
out left side.

Landed at Midway ~ 2 PM - disembarked  
Navy Band.

XO Midway

Met by Lt. Commander S.A. Cooper  
& Ted.

Depart from Midway for Kure at 3:15 PM.  
Arrive about 3:35 PM

Jim Farnish team is at Midway - MAC didn't  
ship their Scuba bottles. Arrived 3 days  
late - they are using KK compressor.

24 March 1980 Monday

send  
forms + pin  
Named after  
former  
C.O.?

MK3 JOHNIE W. ROBERTSON JR.  
"STARK" Island  
"DEEP HOLE" - sees lots of turtles.  
ETI Herbert R. Holst

Diver - has seen  
- turtle ashore at  
S. point - evening &  
morning -  
Basking  
"ENCYCLOPEDIA OF  
STIPWARTS"  
1938 I MABU  
KURE?

XO Leland

Number one engine of C-130 had problems -  
could not be shut off.

Kure men - C.O. Farrell - greeted new  
C.O. with "native" garb and small ceremony.  
I took two photos. <sup>Send one to Whiting</sup>  
Calipers got left on C-130 when it  
returned to Midway.

Met employee <sup>TOM MALOTT</sup> of Craig McDonald's lobster  
~~project~~ project - he frequently sees  
turtles while out setting traps from  
Zodiac. He reports that ~50% of tagged  
lobsters are recovered - 50% new. Most  
recaptures are made in same general area  
only one trap has been damaged - all  
mangled. Log has been maintained on  
monk seal and sea turtle sightings.  
Employee will depart Kure on this  
C-130.

After getting settled in <sup>with Whittow</sup> room, I walked

Fleet, R. R. 1974. The red-tailed  
tropicbird on Kure Atoll  
Ornithological Monographs no. 16.

Department of Entomology  
Texas A&M University  
College Station 77843

Price \$5.50

Allen Press, Inc. Lawrence, Kansas 66044

→ Need to borrow from Whitlow or Hamilton Library  
and xerox

also  
article in Pacific Science by  
Kaeppeler on Polynesian rat predation  
on seabirds,

recall National Geographic story on USCG  
that refers to monk seals at Kure.

24 MARCH 1980 MONDAY

IMPACT OF  
NEW LIGHTS  
ON MONK  
SEALS -  
EIS NEEDED?

to pier, and on down to South Point -  
Noted that radar reflector has been  
taken down. <sup>AS OF FEB 1979 - by CWO Laycock - WANTED TO</sup>  
<sup>STRIPS for TENNIS COURT LIGHT</sup>  
Noted mother with pup and several other  
adults and a juvenile and a weaned pup.

Kure wildlife refuge sign by pier is  
seriously faded. <sup>✓ saw only one on  
entire strip</sup>  
No turtles sighted - no man-o-war at  
South Point. Appears to be low tide.

Smearred  
on  
weaned  
pup

Noted lots of tin balls on beach.  
Noted Scaevola backdrop - thick - not easily  
penetrated - almost impossible to walk  
around seals on beach. Walked back  
to windsock, across runway to  
quarters.

Noted some sooty terns swirling  
in the sky.  
Arrived back at quarters at ~ 5:15 -  
ate dinner at ~ 6 PM. Suited up  
for diving at ~ 6:45 PM.

Walked to beach shack where I left  
gear with backpack. Walked to South  
Point and snorkeled back along reef  
flat - no turtles sighted.  
Collected a Caulerpa + two others.  
After dressing at beach shack, I  
walked to "off limits" sign and

GB-612?

24 MARCH 1980  
MONDAY

back through antennae field to

Cherry Blossoms  
Box 68  
Stehekin, WA 98852

Stella Rago  
419 Basah, Pardo  
Cebu City 6401 Phil

Turtle eggs sold -  
sea turtle meat  
eaten in the  
Philippines?

C. GAN  
38 Kampung  
HIJAN SATU  
GREEN LANE, PENANG  
Malasia

Turtles  
nest? ←

Notes that off limits sign is  
DLNR sign indicating "do not  
go beyond this sign - seabird  
nesting area". "SECTION 3, REG 7"



24 KURE

24 MARCH 1980

Saw movie "Slavers" -  
At about midnight, I walked  
along beach to South Point looking for  
basking turtles, as described by  
J. Robertson. Walked back to  
quarters along the runway. <sup>Very</sup>  
Footprints all over beach. <sup>NOTE - NO</sup>  
GLASS BALL PRESENT IN "OFF LIMITS" AREA - ∴ VIOLATIONS  
Consider - Activities allowed by  
work seals at Kure - Midway - Pt  
compared to other areas under  
the law. Uneven enforcement occurring.  
Went to bed about 115 AM

25 MARCH 1980

TUESDAY

Up ~ 7:45 - had breakfast -  
At 8:30 AM I walked along shore  
to beach shack - then to South  
Point. Swam out along swift  
current South Point - very strong -  
no turtles seen, but noted Codium  
growing. Proceeded to sleeping area of  
site one - no turtles.  
Walked to beach shack and swam  
back to South Point surveying reef  
edges - collected a Sargassum, red  
filament and ?  
I saw one turtle (small) swimming  
over reef flat.

GB-612?

"IRON HOOP" CHAMPANEL

25 MARCH 1980 TUESDAY

Rested at South Point, then proceeded to South Point lagoon side. Surveyed "holes" adjacent to shore. Saw two turtles at a distance, both near first set of emergent rocks (as you walk along the beach from north to south). Walked back to quarters, along lagoon beach - arrived ~1:05 PM - ate lunch.

Need - Someone needs to write-up "recolonization" of Tern Is. by monk seals - Karl Kenyon? Sue Schulmeister?

Recovered Laysan albatross band no 737-95487 - dead ~ 2 week, edge of Kure runway. Grabbed turtle just north of windsock - see page 27. Photographs taken of Laysan and black-footed albatrosses close together.

Walked to point at NE end of island and proceed to snorkel to fringing reef. Examined deep hole and continued along to the north.

26

KURE

25 MARCH 1980

TUESDAY

Thomas M. Matott  
370 West 6 St.  
Peru clud. 46970.

Craig McDonald's lobster project -  
left Kure on 3/26/80 after one  
year of duty.

Seawater reported to be  $\approx 73^{\circ}\text{F}$ .

Looking for turtles. none seen. Swam back  
to shore within "off limits" zone and walked  
back to gear, and back to quarters.  
A total of 17 seals seen on northern half  
of island. No glass balls seen in  
off limits zone - also no footprints  
noted. Does pupping ever take place  
in off limits zone? check old reports.  
Late dinner of microwaved steak.  
Saw movie "Greased lightning".

At  $\approx 10:15\text{PM}$ , Whitlow and I proceeded in station  
truck to South Point. Fog present. I  
surveyed basin near first emergent rocks  
(caught two turtles) and coral head  
slightly to the north - (caught two more turtles).  
Water is calm and noticeably warmer  
than east reef flat area. Checked  
under ledge at area one, east area -  
no turtles seen. Transferred four  
turtles (plus earlier capture) to aluminum bird  
shack for overnight storage - await calipers.  
- ALL tag expanded with extra sets of pliers - works well.

25

26

264

why is this turtle free of fungal growth  
while following turtles have

25 MARCH 1980 - By Windsack ~ 3 PM  
close to shore (feeding?) - ran out and grabbed him.

2643 LFL S - 44.0 x 36.7

2642 RFL C - 46.3 x 43.5

(29)

PL - 35.7 cm

HEAD - 7.2

TAIL - 8.7

why is this turtle free of algal growth,  
while following tort have heavy growth?

mouth sample obtained shortly after capture -  
Numerous deep scratch-pocks in carapace -  
Injured-indentated but healed precentral  
and first marginal left - piece of  
laminae retained - No - left in "crosshatch"  
Tips of front flippers slightly  
injured from scratching on concrete  
floor.

No skin barnacles or algae  
Photos # 1-2 - 4N KR 135-36 - Released at Pier  
w/out calipers 3/26/80

28 KURE

25 MARCH 1980 TUESDAY - captured ~ 11 AM by emergent  
rocks - lagoon side of South Point.

S - 47.5 x 38.0

(25)

2644 RFL

C - 50.2 x 45.3

2645 LFL

PL - 38.9 cm

HEAD 7.8

TAIL - 10.0

Yellow scabs -  
raw wounds dorsal - ventral  
front flippers - top of head -  
source unknown (?) CLEANER FISH?

Lots of skin algae -  
a <sup>very</sup> few barnacles  
white scum on carapace

A few healy raw spots on hind limbs.  
Photos #301 ~~4~~ - Released at pier. 3/26/80  
w/out calipers

25 MARCH 1980 TUESDAY - captured - 11 PM by  
emergent rocks - lagoon side of South Point

2647RFL S - 43.2 x x 35.7

(2)

2646FL C - 45.2 x x 41.5

PL - 34.6

HEAD - 7.0

TAIL - 8.6

Skin algae  
Healing wounds on front limbs -  
eye lids - lips severe  
Other tag 2645-2644  
Photos #5-6 - Released at pier. 3/26/80  
w/out calipers

expanded RECOVERY 25 MARCH 1980 TUESDAY - captured ~ 11PM  
by emergent rocks lagoon side of South Point

2471 S- 48.7 cm x 40.1

(27)

2472

lots of encrusting  
on tags - scrapped and retained.

C- 51.0 x 47.6

Tag appear to have been slightly squashed - piercing  
wounds mostly healed - no signs of  
corrosion.

PL - 38.1

HEAD - 7.8

TAIL - 11.2

skin algae. left  
raw on ~~front~~ dorsal  
Ends of front flippers, short  
but healed.  
Left eye lid raw-yellow scab  
Photos #8-9  
Released by pier 3/26/80

25 MARCH 1980 - TUESDAY - Captured ~ 11PM by  
emergent rocks - lagoon side of South Point

2648 RFL S - 46.9 x 38.2

(28)

2649 LFL

C - 49.6 x 44.7

original tagging  
2/27/78

SP. booker - S - 47.3 x 39.4

PL - 38.5

SL 1.4cm increase ÷  
25 = .056cm/mo  
Months

HEAD - 7.7

TAIL - 8.8

Skin algae.

Healing wound, trailily distal  
left front flipper

Photos #10-12 ; scratch-swirls noted in carapace.

Released by pier 3/26/80



send button DENNIS F EAKIN SK1  
Exchange Operator  
Kure Island

" PETE HUNT  
LOBSTER PROJECT ~~new~~

Apparently non-corroding Inconel tags are more  
susceptible to algal encrustation  
Corroding tags (stainless steel) retard this growth.

Dark at Kure this time of the year at  
about 9 PM. Sunrise not until 7:45 AM  
same time as Honolulu.

26 MARCH 1980

WEDNESDAY

Stayed up till ~ 2300 AM talking to Coast Guard personnel.

Up ~ 8 AM - fog still present.  
C-130 arrived ~ 9:15 AM with navy band. I spent morning measuring and tagging the five turtles. All were released by concrete pier.  
I could grasper-probe tool be inserted through tygon tubing for stomach sample?

Noted complete absence of algae on turtles captured near windsock, while turtles displayed thick Polysiphonia and green epiphytic growth. Why? Windsock turtle a new recruit to Kure? (at 41cm?)

Change of command ceremony took place - band performed well for men. Brunch served on mess deck.

Paid Bob Grant \$1.20 for old check (1978) of mine that he threw away. Paid \$6.00 to CG for lodging.

Walked with Causey along beach to the north of concrete pier looking for hatchling, or piece of hatchling, that he saw yesterday. Not found.

This could have been hatchling produced at Kure (local or migrant nests), or washed in

26 MARCH 1980 wednesday

from any other area. Probably Chelonia,  
but could have been another genus.

Departed from Kure ~ 1 PM - landed at  
Midway for fuel. Marine Corps C-130,  
and other fighter jets were on the  
ground for hydraulic repair to one of the  
fighters. Saw Scott Gilliam at  
Air ops. Didn't leave Midway until  
about 3 PM. Took photos with WA  
lense of all Pearl and Hermes Reef.  
Saw Nihoa's northern end at ~ 7 PM  
when it was nearly dark.

Arrived at Barber's Point at 7:30 PM.  
Bill Porter <sup>USCG</sup> mentioned that San Inez sank this  
afternoon.

### BACKNOTES FROM NOTEPAD:

Large chunks of yellow-brown alga noted.  
washed on beach - from observations made  
at elevated reef platform where waves break,  
this alga is not the one seen to  
be present.

Save aircraft seabird mortalities for stomach  
sample analysis.

Two haycock ordered radar tower <sup>at Kure</sup> cut down

26 MARCH 1980 Wednesday

Subsequently stole electric motor from Scuba compressor (C) - was retrieved in Honolulu.

Does Kure stock qualify for "Endangered" category?

Kure "Seabird Sanctuary" status only encompasses dry land areas - not lagoon or surrounding waters.

Why doesn't state initiate commercial/experimental fishing at Kure?

3 MARCH  
1980  
Monday

Ron on Easy Rider reports that they returned to port last Friday. San Ives sank ~ 75 NW of Nihoa at 9:30 PM - fumes were left running at night, but everyone taken off for safety considerations. Boat grounded to the NW of Disappearing Is. Had been bottom fishing - running down from the north - hit at Green and brown waters.

Ron reports that establishment of camp at Laysan went smoothly. Rayson did not help that much. Johnson + L. Gowan + Maura Naughton were left there. J. Moulton arrived late - went out on Cromwell (left one week ago today). Only turtles seen were in the water, to the west of Laysan - 2 small and 1 large.

BRETZOTZ: While Parrish team was at Midway for two weeks, Mark Degrosta set single shark lines on his own - caught tiger sharks that contained pieces of turtles (I need to examine and analyze). Also, other Parrish student thinks he saw a hawkbill due to scalping on shell.

Jim Parrish indicated that he had all of turtle sighting - would make them available to me.

Rescue mission apparently sent out for Parrish storm warning put up and he was beached for a few days.

According to Cunningham  
 on May 6<sup>1980</sup> USCG E-130 will fly to Johnston - then Kure/Midway - then Upolu Point to calibrate LORAN

During May<sup>1980</sup> Navy EOD flew USCG to Kure and blew up something (another bomb?)

Also, Johnson, Scott and other employees of Craig MacDonald lobster project visit Kure and contacted Staphylococcus infections - reportedly from sewage that emanates from pipe by pier -

Consider effect of this bacterium on turtles  
 necrotic ends of flippers, eye lids,  
 etc. - Also scar resulting from injury  
 on my right leg.

Early Aug. - Gene Nitta reports that Midway wildlife  
 1980 officer is ENS. Dara Dougherty of NAC FAC

C.O. is <sup>Commander</sup> BARNES

ASSUME ARRIVE EARLY AFTERNOON <sup>26th</sup> Tues. - get boat ride  
directly to Eastern - Camp on Eastern night of 26th, depart  
back to CG aircraft late afternoon 27th or morning of 28th.

39

Gear needed for Midway Trip 26-27-28 AUGUST 80

Fins, MASK, long-sleeve wet suit, hood, gloves, wt. belt,  
CBC(?)

<sup>2-stakes + line</sup>  
Pop-Tent, sleeping bags, air mattress, CANVAS, blue tent?  
UV lights; head lamp; flashlight

MINIMAL stomach sampling gear, scale, calipers, tags-pliers  
taxis, towels

? one net. (one anchor + line?)

Food, canned; water containers; stove; coffee  
thermometer

Gear should be kept to a minimum due to transport problems -  
Store everything in white-buckets?

ACD G.J. Williams  
Lt Commander VILKAS  
LTJG LIPE

20-25 yrs old?

(3rd oldest  
E-130 in  
USCG-)

26 AUGUST 1980

TUESDAY

KURE, MIDWAY USCG Flight

TO Barber's Point in NMFS vehicle  
at 7 PM. <sup>w/A</sup> km. Four state Fish & Game  
personnel (Eric, Fred Ball, +2).

Takeoff ~ 8:30 AM - Low altitude patrol  
to FFS 0 - Saw Cromwell in Shoals -  
photos taken of La Perouse Pinnacle -

Noted that Tern Island had Bob  
Justman's plane on the ground.  
Tern Island was very dry - devoid of  
ground cover vegetation - Only Messerschmidia  
apparent - saw bar extension still

40 KURE - Midway useq

26 AUG 80

TUESDAY

Present, <sup>Moderate</sup> Low level <sup>20,000'</sup> to Maro Reef (noted what may have been small sandbar island formed at central core area, to the east and slightly in (north) of 1978 dive site. Proceeded east the north of Jaysan - 3-4 photos taken - <sup>at 20,000'</sup> 1/4 frame full. Noted dry lagoon - three water sections/pools present. Talked to Maura Naughton and P. Johnson. Maura asked about hatching time for nests - Patty mentioned log imbedded, but number not readable. Photos have been taken for future identification.

Landed at Midway ~ 12:30 PM Honolulu time; 11:30 AM Midway time. Unloaded gear off C-130 ramp while engines still running. Duty driver, at the direction of OOD Rogers, took us to 35, but Parrish wasn't there. Also to mess (old officer's club), K.Kings (lots of weeds in parking lot), and then Special Services at Dinner Harbor. Operator Kevin Duncan agreed to take us to Eastern - but first I had to obtain gas at Fuel Farm. Arrived at Eastern with gear at ~ 1:40 PM. Set up camp by wood shack on south shore. Set one length of net a site where reef flat comes in close to shore

26 AUG  
TUESDAY

+ 6 more  
with food Ch  
- all also w  
PUMICE



26 AUG 80  
TUESDAY

creating small channel. Numerous logs washed up on shore. 2-3 Spotted Rays noted close to shore in area, so net had to be untied and moved for a short time. Observation indicated that Rays may be able to see and avoid net during the daytime.

At ~ 3:30 PM we walked to the east and started swimming back searching for turtles. Current strong, tide up - water milky. Saw one juvenile swimming - scum on back. Saw small (~ 2-3') gray reef shark - followed Alan - noisy - for some distance. Got out of water by net ~ 5 PM.

+ 6 more  
with food (beaks)  
- all also with  
plumice

Walked along beach to west end of island - and back to campsite along runway. Carcass of 11 albatrosses all contained fresh-looking plumice. Plumice noted all over ground - also two very large pieces collected in association with casting-squid beaks. Large porous plumice found washed ashore - had chili & beans for dinner - slept until <sup>9:30</sup> 10:30 PM, - low tide

26 AUG 80  
TUES

on reef flat - snorkeled with light from East to West - Found two turtles sleep under coral ledges - First capture 2552-53. Second capture no tags on, but marks of old tags present. Saw several small sharks, and one 20-30 lb ulua. Terminated diving about 12 MIDNIGHT - stored turtles in wooden beach shack build with plywood "Merry Christmas & Happy New Year"

27 AUG  
1980

Wednesday

Slept until 9:30 AM. Made radiocheck with Midway Boothouse at 10 AM. Collected data on two turtles and released.

At ~ 11 AM <sup>lower tide</sup> we snorkeled reef area east to west again, with current, - one turtle without tags captured while resting in "popular" hole at the end and to the west side of channel. This channel is slightly to the left (east) of rusted 2-3" pipe that extends from beach into the water. Remainder of swim result in observation of one swimming turtle (seen, my Alan may have been resting but frightened out) and 1 1/2 small sharks that approached close.

Alan captured two lobsters under corrugated concrete close to shore - cooked them on coals of ironwood campfire.

27 AUG  
WEDNES

RECAP

2552

2553  
4th

3470

Means  
behind  
Eastern

27 AUG 80 Data collected on third turtle and released.  
 WEDNESDAY Net was not put out again today  
 adult monk seal was seen <sup>at 2:12 PM</sup> swimming  
 inside reef flat from west to east.

TAGGING DATA ON TURTLES AS FOLLOWS:

RECAPTURE 26 AUG 1980 - NIGHT DIVE ~ 11 PM - UNDER LEDGE - EASTERN IS.

2552 (close to edge between, 1<sup>st</sup>-2<sup>nd</sup> scales)

2553 (between - expanded ~~diff~~ because "knot" starting to form  
 4<sup>th</sup>-5<sup>th</sup> scale)

3470 RFL (new)	S-49.6	x	(3)? 49.1 (?)	SL 1cm ÷ 27 =
means - "behind Eastern"	48.6		40.0	<u>0.037cm/mo</u>
5/21/78 (27 months)	C-52.5	x	49.0	
	50.8		47.0	

PL- 42.4

HEAD- 8.3

TAIL- 10.5

WT- 46 lbs

"Swirl" marks in carapace.  
 Red algae on top & skin; green algae on plastron.  
 Post-centrals are rounded, both front flippers are  
 short - old injuries that have healed.

Photo

Stomach sample obtained by introducing  
 water through tube.

26 AUG 1980 → 11 AM EASTERN -  
 sleeping under ledge -

3468 RFL

3469 LAE (applied near existing tag hole which is through  
 flap and 1st scale)

S - 49.1 x 39.8

C - 52.6 x 47.8

PL - 40.2

HEAD - 8.2

TAIL - 10.5 unusual knot on ventral surface  
 of tail - old healed injury?

"Swirl" marks in carapace.

Red algae on skin; green on plastron.  
 no skin barnacles.

left front  
 flipper

WT - 41 lbs

healed area - 4th-5th scales -  
 old tag site?

Dark colored carapace and dorsal skin.

photo

Stomach sample obtained by introducing  
 water through tube.

17 AUGUST 1980 - Daytime capture - resting head in (like others) in channel with "popular" hole.

3471 RFL

3472 through 1st Scale left front flipper.

S - 53.8 x 44.

C - 58.0 x 53.3

PL - 42.5

HEAD - 8.0

TAIL - 10.0

WT - 51 lbs

"Swirl" marks in carapace.

Red algae on skin; small amounts of green algae on plastron. No skin barnacles.

Stomach sample obtained by introducing water through tube.

Two amphipods collected from mouth - one live remaining.

Photo taken - last of three photographed. Photo of Kam releasing turtle on the beach -

27 AUG 80 At ~ 3:30 PM we started packing up  
 WEDNESDAY gear and transferred some to boat  
 landing pickup site. Proceeded to  
 walk to east side of island  
 counting albatross remains that contained  
 plumage. Saw "diggings" in ironwood  
 needles - could not determine cause.  
 Proceeded to top of high sand  
 mound (covered over entrance to command  
 post?) and to shoreline cove where  
 "grayghost" aluminum panel truck was on  
 beach - now only iron frame left -  
 several aluminum pieces along shore to  
 the west. Noted marks where  
 seal or seals had hauled out.  
 Photographed coastline to the east of  
 beachrock shelf where margled  
 towers are in the water.  
 Albatross counts as follows:

CARCASSES:

Food remains (Beats, PLASTIC) AND PLUMICE: <sup>from P41</sup> 49 + 17 = 66

No Signs of food: 7

Food REMAINS, but no PLUMICE:

Black footed: 2 > 4  
 Laysan: 2

TOTAL NO. OBSERVATIONS: 77

Photos taken of  
 two different carcasses

27 AUG  
 WEDNESDAY

sand sample to 119

27 AUG 80

WEDNESDAY

Caps to containers appear to be dominate plastic items. Most abundant material volume-wise is plumice. Noted small radio tube in one carcass - photo.

Plumice observed all over Eastern - appears fresh - jagged, not smooth and rounded. - Some with "glaze". Samples collected, both from carcasses and surface. Source on surface seems likely to be castings that were regurgitated by fledgings, only a few of these were found to be still intact - most all have now been scattered - disappeared as a result of dermosid beetles - wind, rain, weathering.

On 28 August Thursday during short morning visit to Kure, Mr. Daniel Whiting told me that he also found large quantities of plumice in castings (w/ beads & plastic) - started showing up shortly after Mount St. Helens eruption. Saw turtle on surface at "Shark Pit"; also one in study area.

Transferred remaining gear to pick-up site. Collected sample of Portulaca that had peck-marks suggestive of disease or insect attack. Large quantities on island are affected.

Picked up in 14<sup>th</sup> Boston Whaler by

send sample to HIG

27 AUG 80

Wednesday

SR Kevin Tegge. On the return to Sand Is. I noted seal haul out marks on Spit Is. - ~~eastern~~ eastern-most - note that there are 3 total ("Spit" Islands). Also saw 4-5 plastic buoys at channel edge that are Parrish's shark line - later informed that Parrish has caught 2-3 tigers. Need to check for turtle parts. Also saw 55 gal drum platform that reportedly will be used by contractor to rod & reel fish for sharks - trying to set size record.

Person in charge of Boathouse is HTFA Kevin Duncan.

Head of Special Services is LTJG Gibson;  
Helpful OOD was Chief Rogers -  
Duty Driver - Salazar (?)

At 6:30, Duncan trucked gear and us to S3 (Parrish's unit) - we then "checked in" to S3 (door open).

Parrish's two remaining people showed us "Turtle Sighting" log - (appears to be most common at Stations 1 and 10. "No tags seen".

Bought Tequila at Package Store - had beers, hot dogs.

27 AUG

WEDNESDAY

28 AUG 80

Thursday



27 AUG 80

WEDNESDAY

and chili at EM bar. TO sleep - 9:30 AM - hot night, little wind - Mosquitos present.

28 AUG 80

Thursday

Up in 6:15 AM - Had breakfast at combined mess (old "O" club). Duty driver transferred gear to Flight Deck C130, Departed Midway for Kure at 7:45 AM.

Flight crew mentioned seeing large (2-3') turtle off beach - described as having "ridge" on back - "green with dark spots".

On approach to Kure I was able to take photos of ~~off~~ Green Is (lagoon & Sand & Shark islets in background). Landed at Kure at 8:10 AM - Talked to Daniel Whiting & Robertson - Latter has been setting shark line, sent from Honolulu by Karl Kenyon, on 55 gal drum attached to stem piece of Japanese shipwreck. Saw photos land. 9' and 12' tigers caught - also jaws drying on board. No turtle pieces found (or seal), only bird feathers. (A third tiger that was hooked got off. Whiting mentioned that the stomach of one of the tigers was completely empty. (except for bird feathers?).

Robertson said that he had mailed me a letter - describing juvenile turtle found at South

28 AUG 80

Thursday

Point with both hind flippers bitten off; was in weakened condition. He expected Pit to wash ashore dead at a later time - but this did not take place. Robertson also said that most of turtle sightings are at cut in reef (where ulua are speared), out from antenna on east side.

Lobster people will be at Kure two weeks from now.

Departed Kure and landed at Midway 9:45 AM.

Engine restarted about 45 minutes after taking on fuel - but one of starter motors inoperable. Delayed for a couple hours.

Have \$1.75 lunch at combined mess - Departed Midway - saw Pearl & Hermes out the left side of aircraft; late Neva out right 75 miles off. Passed to the south of Laysan at 2:35 PM - several photos taken at ~ 10,000 feet altitude.

At Maro Reef we passed low level over vessel ANNE RILEY - seemed adrift - white flag displayed - position  $25^{\circ} 31.5' N$   $170^{\circ} 26.6' W$ .  
lobster fishing?

28 AUG 80

Thursday

At  $24^{\circ}25.7'N$   $168^{\circ}01.3'W$  we passed low level over vessel WICKED WAHINE.

At French Frigate Shoals, two vessels were seen within shoals - Cromwell - between Fajeros and East Is.; and possibly USCG buoy tender - south of Tern. At this point we climbed to higher altitude ~~and~~ and proceeded directly to Honolulu.

BACKNOTES: Need to check on USCG flights to Palmyra, Wake, Marcus, Johnston.

Algae collection was made on reef flat, S. Eastern - Spyridia seemed to again predominate, but another alga (possibly Enteromorpha) was growing on Spyridia. Also, I collected a fine red filament alga - growing under soft materials

<sup>start</sup> Descent for Barber's Pt ~ 5:40 PM.  
Landed at 6 PM - 7 PM Honolulu time.

8/29/80  
FRIDAY

## BACKNOTES:

Dynamic situation at midway, of recruitment and attrition, may be weighted so that survival does not exceed probability of tiger shark predation occurring before maturation (large size) is achieved.

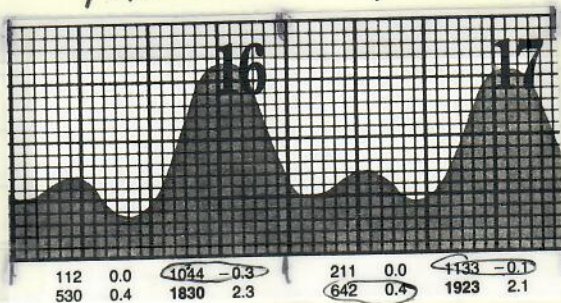
Fog recoveries present among the turtles (that are sampled/captured) at any one time suggests that considerable time period is involved in exchange between "other locations" and the area being sampled (S. Eastern reef flat).  
 Where are these "other" locations?  
 Where do the turtles go when they are not resting or swimming in S. Eastern reef flat? Outside the reef? In deep water?

16-17 May 1991

KURE

Thurs.

Friday



8<sup>10</sup>am depart USCG C-130H (windows on each side)

w/ ~~3~~ head-started seals. William G. Adymerin, Paul Kawamoto, Henry Okamoto, Gene Nitta, 2 NMFS hare volunteers John and Constantine; Dave Smith, Dr. P. & W. Wild. Saw Jaysan at a distance, and Maro Reef - Flew right over P&H saw SE Island.

Landed at Kure 6pm. Overcast but warm wind - met by Thea Johannes-Kam and Jim Swensen and Mary Pickett (SLP).

Assigned to Room 4 in guest building with GN and WAG. outfitted backpack with snorkeling gear and walked to end of runway where old windsock used to be. ~~WAG~~ walked to opening and saw up-down track that appeared to be from a turtle, but could have been aberrant seal

photo  
by  
Thea

Needs - Library  
 "Double Edged Secrets"  
 by Holmes

Encyclopedia of Shipwrecks  
 1938 — Maru (Kure)

truck, walked beach to South Point, then around to 2 emergent coral rocks on lagoon side. No swimming or surfacing turtles seen. (4 mother pup pairs present on the island. 2 pup tides still seems low. Entered water by 2 rocks and snorkeled basin and adjacent area. One small (~40cm turtle) seen along side of under low vertical ledge. Dashed out as soon as I saw it. Head aiming out. No tags noted.

Walked over to South Point "Washing Machine" ledge. Snorkeled, and pulled myself out along it. Lots of fish + wrasses, etc. No turtles seen.

Came back and progressed to snorkel along the east side in a northerly direction. Located undercut ledge where

5/16/191

turtles were often seen and caught, Thurs were there. Proceeded to snorkel all the way to old windsack site - took perhaps 1 1/2 hours. Noted lots of wrasses. Several monk seals (juveniles) seen very close. "following me" - but dashed away when I turned to look at them, only to return following again. Numerous pieces of drift net, and tarant webbing, and other line debris, been snagged on coral/bottom. One huge mass present off windsack area. Drift net pieces (distinctive green color) often have algae growing on them giving the overall appearance of being algae.

Out of the water at 3:15 pm, giving a total snorkel time of about 3 hours. only one turtle seen during this time (near 2 emergent rocks - lagoon side).

at 11 pm - Then drove us cc truck w/ me, Mary Pickett, Constantine and John to S. Point.

I snorkeled out to "basin" off 2 emergent rocks. - Saw what

Need  
sighting  
CARE  
pent

2

5/17/19  
Friday

Island Census Counts of seals said to be 30+

needs  
sighting  
CARESS  
sent

DARC

off Kure  
4/92

David Belisle

US Coast Guard Kure Island

FPO San Francisco CA 96619-0006

Seawater =

(I guess

74°F

weathershed  
(green)


I believe to be the same ~ 40cm turtle  
motionless on the <sup>bottom</sup> near low vertical  
calcareous ledge. Got dive light  
in face, but it turned and sped off.  
Very alert.

Returned to room ~ midnight.

5/17/19  
Friday

UP ~ 6:45 am - still nearly  
dark, since Kure uses Hawaiian  
time, but is ~ 600 miles to the  
west of Honolulu.

Breakfast at 7:15 am (continued p. 58)

~ 6-7 pm walked w/wcg and Witta  
to possible (but now deemed not probable)  
nest site at old wind sock site.  
Discussed it, and noted that shadowing  
(at this time of day) highlights stopping  
feature  which would be

more indicative of a seal haul.  
Walked to seal enclosure, and  
to southpoint dump area. Noted many  
small "transformers". "New" (since 1980)  
Dump site up high in middle of SPONT.



Depart time 12 noon

5/18/91

Friday Then again, drove us  
to South Point.Constantine, snorkeled, with me  
off 2 rocks (almost zero)Visibility this morning  
unlike yesterday. Milky water.

No turtles.

Moved to S. Point ledge -  
strong dangerous current, no  
turtles, but found a piece  
of Codium edule tangle on  
rocks.Found a broken plastic turtle.  
Snorkeled green area where  
undercut is located just  
north of S. Point ledge.

no turtle.

Back to quarters to  
pack.Dave Smith this morning saw  
2 turtles on the west side of  
North point (slight indent in  
shoreline). One is 40-45cm, the

other is 65cm, all estimated.

Right close to shore swimming  
along slowly in wave-wash.

Dave says he could have walked

5/18

out and caught them.

Departed Kure at noon -  
high altitude to Barber's Pt,  
arriving about 4:15 pm.  
Drove to lab, then to home  
using G. Witte's van.

5/17-5/18/91

There is no evidence to support any sort of increase in the number of juveniles or adult turtles breeding and foraging in the nearshore waters off Green Island at Kure Atoll.

### Net scraps

Surveys by snorkeling underwater habitats where turtles ~~were~~ were regularly seen and captured 10 of 13 years ago (day & night) resulted in one turtle being seen.

SEA TURTLE SIGHTING REPORT

(Please return to: George H. Balazs  
Hawaii Institute of Marine Biology;  
P.O. Box 1346; Kaneohe, HI 96744;  
Tel. 247-6631)

Observation made by: M.D. "DAFFY" RYAN

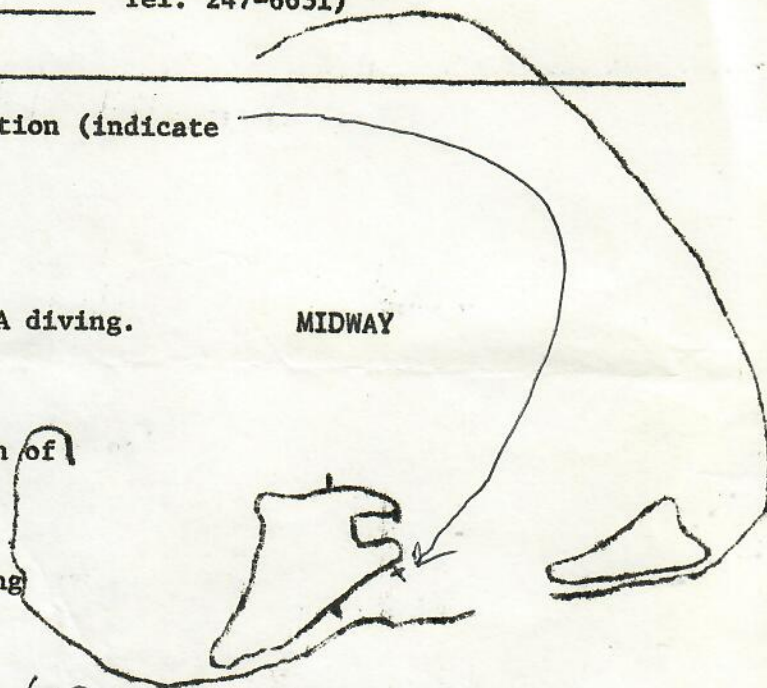
Address & Tel. No. (optional): \_\_\_\_\_

Date: 16 July 77 Time: 4:30 pm Location (indicate  
on chart): \_\_\_\_\_

Observation made from: X shore;  
\_\_\_\_\_ boat; or while \_\_\_\_\_ skin \_\_\_\_\_ SCUBA diving.

Estimated size (shell length) 20"

Turtle seen on: X surface; or at depth of  
approx. \_\_\_\_\_ ft. Distinguishing  
characteristics (species I.D. if known, long  
tail, shell color, tags, injuries, etc.):



GREEN SEA TURTLE / DIDN'T NOTICE IF IT  
~~HAD~~ HAD BEEN TAGGED / ABOUT 4' FROM THE  
Other comments: SEA WALL / APPEARED HEALTHY & SWAM AWAY  
WHEN I APPROACHED CLOSER

THANK YOU FOR YOUR COOPERATION



United States Department of the Interior

FISH AND WILDLIFE SERVICE  
PACIFIC ISLANDS OFFICE

P.O. BOX 50167  
HONOLULU, HAWAII 96850



George Balazs  
National Marine Fisheries Service

7/7/89

Dear George,

These photos & tags were given to Breck Tyler (FWS) by personnel at Midway. The turtle was found dead sometime between late 1988 and early 1989. I have asked Breck to see if he can obtain a more specific date & any other information. I'll send you any info he sends me.

TAGS  
2175-76

Inconel

yours,

Craig

Craig Rowland

sent note to -  
Barbara Klemm

11/25/77

Dear George & Linda,

Hope you had a good Thanksgiving and a nice day. Our weather has been bad and getting worse all the time. Have not been able to do any diving.

Have had people trying to call you when they were in Hawaii but you are always out to sea. Hope you are getting lots of information.

Linda and I appreciate all the information you sent on Samoa and the Cooks. We could not get the flight arrangements that seemed very good so decided to put off going. Only thing we could get was 1 day in Samoa or the Cooks and the rest of the time in the other place.

MEANS MIDWAY -  
TEL -  
2300

Linda has decided to go to Reno for Christmas and will probable be coming through on the 17th or the 20th I will stay here and they come in on the 27. Are you going to be there or out at sea? Will you have time to go diving and if so what gear should I bring? We plan on coming back to Midway on the 3rd of Jan if everything works out ok.

We have been seeing lots of turtles far from the shore. Seems to be lots off the rusty bucket area right now. Also some large turtles seen off the inner harbor entrance.

George I have not been able to find any material my Oceanography students can use to identify the various types of coral and algae found out here.

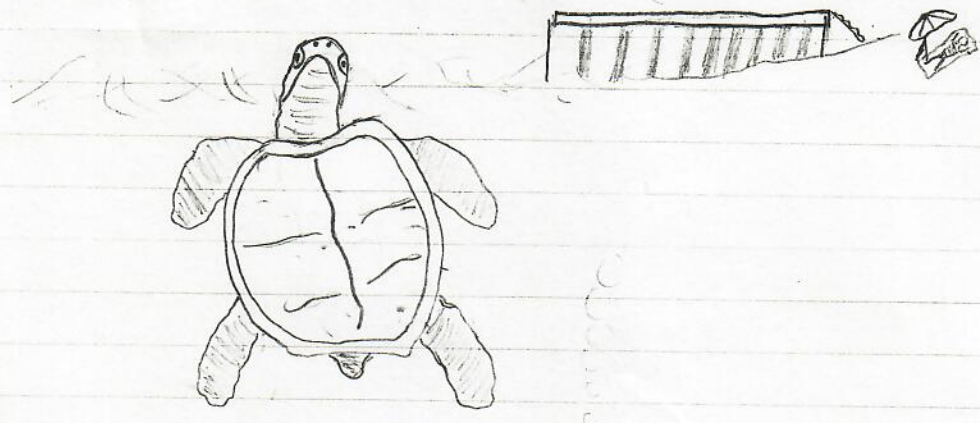
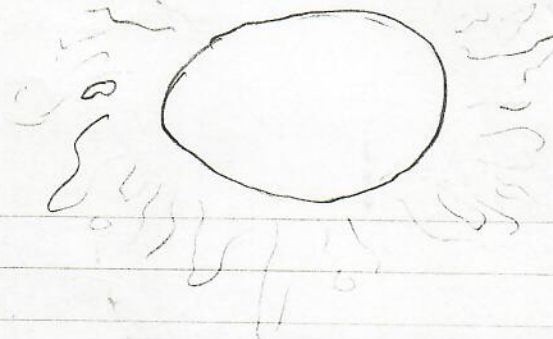
Do you have anything that you could send that would help. If it is books we have money in the science fund to pay for ~~anything~~ anything you may have. Some of the students are working on coral and algae for there projects.

Had a good visit with Brent the short time <sup>he was</sup> they were here. Think he and I are going to be able to work very well together. Have got the ~~at~~ bird abatement program going and also some new refuge signs started. Included a turtle on them also.

Let us know if you and Linda are going to come out over Christmas vacation or whenever. You know our house is open to you at any time. George--you have been missing some good parties. Most of the teachers got together for dinner yesterday and had a good time.

I will hold the information you sent until you come out and give it back to you then or when I come in.

Sincerely,  
Gary  
Gary.



TO DAD

FROM PAUL



DATA

Books only cover RECOVERIES  
with RESPECT TO OLDER TAGGINGS

— Numbers include recoveries

SUMMARY OF GREEN TURTLES TAGGED AND RECOVERED AT MIDWAY

Compiled by  
George H. Balazs  
Hawaii Institute of Marine Biology

MIDWAY HAS  
FEWER TIGERS ::  
MORE TURTLES ?

Year	J	F	M	A	M	J	J	A	S	O	N	D	Total	Recovered	Retained
1969	-	-	-	-	10	8	4	0	0	2	2	2	28	0	0
1970	0	0	6	0	9	0	3	1	1	10	1	0	31	0	1
1971	1	1	1	0	0	7	7	0	5	5	0	0	27	0	1
1972	0	0	1	7	3	10	18	15	16	8	9	0	87	18	4
1973	7	5	2	2	0	0	0	0	0	1	0	1	12	4	0
1974	0	1	0	7	2	0	0	1	0	4	7	0	22	3	1
1975	0	1	0	1	13	2	0	1	0	2	2	1	23	3	0
1976	4	3	2	1	1	0	0	1	2	0	0	0	17 13	7 3	0
					Hilo		Wake								
1977	0	0	0	2	2	11	10	1	1	1	0	0	17	5	1
1978	2	7	2	1	7	7	7	0	0	3	?	?	29	3	0
						IR									

\* My first expedition

AS off 2/23/78

260  
293

43

27 1X recoveries, 4-2X, 1-3X



WEIGHT CHANGES IN JUVENILE GREEN TURTLES  
TAGGED AND RECAPTURED AT MIDWAY,  
NORTHWESTERN HAWAIIAN ISLANDS

by

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March 1978

Tag No.	Months/Days	Weight Change (lbs)
911	7 - 10	+1
T89	1 - 17	-1
A609	28 - 14	+6
T88	1 - 14	-1
913	10 - 19	-3
873	37 - 5	+5
T79	4 - 2	-4
A615	27 - 15	+2
T98	3 - 12	-5
T96	4 - 14	-2
T97	6 - 17	+1
T439	4 - 26	+3
T429	4 - 6	+3
T407	28 - 8	+7
T472	6 - 7	0
1474	16 - 23	+5
1480	5 - 4	-1
1482	20 - 3	0
1479	11 - 15	+6
2178	7 - 2	+5

IUCN Newsletter note

Midway ( N w ) sea water temp.

FFS ( N w ) [include captive release?]

Kure ( N w ) [include SLP captive release?]

Hawaii ( N w ) [include captive release?]

Lanai ( N w )

- project minimum no. years to maturity (based on)

- length & weight parameters

- Schmidt (1916)

include any FWS HINWR data?

- Green concurrence (per. comm.)?

(concurrence?)

- solidarity with Limpus ?

Publications ~~re~~ ~~from~~ are  
re: fish abundance assessments.

• Maps from Monk seal group.

• I also have larger map  
of Midway which is Frank's  
that I will get to you

(Please return when finished  
w/)

Note comment from Frank.

Their surveys encompassed  
the N. Reef, SE+SW Reefs  
and areas inside the  
atoll. ~~no turtles~~ ~~there~~

~~Flow~~ - no turtles seen in those  
areas.

Most turtles seen around <sup>Sand</sup> ~~the~~  
Island, In harbor and resting  
Under piers on N side,  
also some hauled out on the  
beaches along SW part of island  
(ie those beaches are restricted by  
FWS). He would suggest surveys around <sup>and</sup>  
before other ventures

## METRIC SYSTEM WITH U.S. EQUIVALENTS

### METRIC UNIT (1)      U.S. EQUIVALENT

#### **WEIGHT**

milligram	mg	0.015 grains
centigram	cg	0.154 grains
decigram	dg	1.1543 grains
gram	g	0.035 ounces
decagram	Dg	0.353 ounces
hectogram	hg	3.527 ounces
kilogram	kg	2.2046 pounds
quintal		220.46 pounds
metric ton		1.1 tons

#### **LENGTH**

millimeter	mm	0.04 inches
centimeter	cm	0.39 inches
decimeter	dm	3.94 inches
meter	m	39.37 inches
decameter	Dm	32.81 feet
hectometer	hm	109.36 yards
kilometer	km	0.62 miles
myriameter		6.2 miles

#### **VOLUME**

cubic centimeter	cm <sup>3</sup>	0.061 cubic inches
cubic decimeter	dm <sup>3</sup>	0.0353 cubic feet
cubic meter	m <sup>3</sup>	1.31 cubic yards
cubic decameter	Dm <sup>3</sup>	13.10 cubic yards

### METRIC UNIT (1)      U.S. EQUIVALENT

#### **AREA**

square centimeter	cm <sup>2</sup>	0.155 sq. inches
square meter	m <sup>2</sup>	1.196 sq. yards
are	a	119.60 sq. yards
hectare	ha	2.47 acres
sq. kilometer	km <sup>2</sup>	0.3861 sq. miles

#### **CAPACITY, CUBIC**

milliliter	ml	0.06 cubic inches
centiliter	cl	0.6 cubic inches
deciliter	dl	6.1 cubic inches
liter	l	61.02 cubic inches
decaliter	Dl	0.35 cubic feet
hectoliter	hl	3.53 cubic feet
kiloliter		1.31 cubic yards

#### **CAPACITY, DRY**

deciliter	dl	0.18 pints
liter	l	0.908 quarts
decaliter	Dl	1.14 pecks
hectoliter	h	2.84 bushels

#### **CAPACITY, LIQUID**

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

\$2550

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