

MARSHALL ISLANDS FILE TRACKING DOCUMENT

Record Number: 182

File Name (TITLE): Radiological Survey

Document Number (ID): 0149018

DATE: Nov

Previous Location (FROM): CIC

AUTHOR: L. Donaldson

Additional Information: _____

OrMIbox: 12

CyMIbox: 7

149018

0149018

AS9

This Log by *[faint handwriting]*

RG UNIVERSITY ARCHIVES
UNIV. OF WASH. LIBRARIES

Location Lauren R. Donaldson Papers

Access No. Logs

Folder 8) Radiological Survey

Allyn H. Seymour

Wed Oct 15

Thurs Oct 16

Fri Oct 17

Sat Oct 18

Mon Oct 20

October 21

Collection #

#

1

UNIVERSITY ARCHIVES
UNIV. OF WASH. LIBRARIES

1952 - Log of Collections

- Wed. Oct 15 Noon Left McChord Field in. Gloucester. Checked in at 9 AM
3 PM Travis Air Base
- Thurs Oct 16 at Travis Air Base waiting transportation
- Fri Oct 17 3 AM Left Travis Air Base
2 AM Hickam Field Honolulu. 2 hour time change.
Flight time 12 hours and 28 minutes
- Sat Oct 18 4:30 PM Left Hickam Field
8 PM Johnston Island, after setting clock back hour
9:30 PM Left " "
- Mon Oct 20 5 PM Arrived Kwajalein after setting clock back 1 hour and
moving ahead one day.
7 AM Left Kwajalein
9 AM Arrived Ebiwetoko
3 PM Aboard "Oakhill"

October 21

Collection

#

1

Japan Island - Collection #1 (DAVID)

Area: Lagoon side, eastern side of island.
Same area as 1948 and 1949 collections.

Time: approx 11 AM to 2:30 PM Incoming

Tide. Tide really full at 3 PM.

Remarks: Tide running extremely fast.

On first set used about 10-15 lbs of 1952 lot of rotoms
but recovered only 2 fish. About an hour and a halflater used 15-20 lbs of the old (1947?) stock of
rotomons and had better luck but still only a few catch.Fish placed on ice in Jaganjaga in the field and
then taken back to Oakhill. Samples for counting
placed in Donaldson deep freeze. Eggs preserved
in formalinLabels in fish and invertebrate collections
have collection number, area and date. Algae collection
have collection number, area and date. i.e. 7-52-7 3UNIVERSITY OF WISCONSIN
MUSEUM OF ZOOLOGY

Whole Specimens

Oct 21

Collection #1
Continued

| | Frozen | Formalin Preserved | Discarded |
|---------------------|--------|--------------------|-----------------|
| Butterfly | 1 | | |
| br. spotted grouper | 111 | - | 1 (lost in box) |
| goat fish | 111 | 111 | 19 |
| Gobies = blennies | 1111 | 1111111 | |
| Wrasse | 111 | 15+ 1111111 | |
| damselfish | 111 | 111 111 | |
| half beak | | 11 | |
| protulid | | 11 | |
| surgeon | - | | |
| mullet | 111 | 1111 | |
| puffer | - | | |
| parrot fish | | 1 | |
| round berring | | 11 | |

Tissues: Liver from a brown spotted grouper that weighed 1115 grams added frozen fish collection

Fish Collection: Bonaldson + Seymour
Invertebrate: Bonham + Held
Alga: Sweeney
Rats + misc: Sweeney

- No. of packages frozen for counting
- (1) Fish 1 pkg.
 - (2) Invertebrate 2 pkgs
 - (3) Alga 1 pkg
 - (4) Plants and 2 pkgs.

Oct 22

Collect #2
Runit

Island 23

Plant

Oct 22 ~ 9³⁰ AM Stopped again island to pick up
 net trap. *Parus* were caught.

Proceeded to Runit Island.

10³⁰ AM Broadson held, Coorman, Johnson ashore
 to make collection. Broadson + Seymour on bridge over
 "area"; Lagoon side, just NW of Runit in
 Runit approximately same area as 1948 and 1949
 collections (VONNE)

Time: 11 AM to 1 PM

UNIVERSITY OF
 UNIV. OF

Remarks: Tide again moving fast. A
 little smaller than yesterday. Used about
 10th rotenone (new stock)

Broadson + Seymour stepped aboard the "M"
 boat # 30, from bottom drag, Broadson took some
 water samples

10⁴⁵ AM First bottom drag. Used original dredge.
 Hauled for 15 minutes in area just off
 side collecting station. Good catch of algae and
 mollusks. Towed into wind north. Depth
 20 ft to start with, considerably deeper at end
 of drag.

11¹⁵ AM Set out second net, towed for 37 min
 from same starting point as dredge
 haul but went further, about 1/2 mile. Catch
 mostly *Chironomus* + jelly fish. Preserved information
 keep separate by mesh size. Used net A # 20,
 173 mesh per inch with same mesh net end and
 + D # 6 mesh with # 12 net end.

12¹⁵ AM made 3rd haul, same area a little further
 off shore. Catch appear similar except for 3
 fish in net D. Combined catch with 1st catch

Oct 22nd cont.

1 PM. Took water sample in area where plankton dredge haul was started. Initial depth 24' which shallowed up to 15' before completing sample. Took bottom samples by means of water bottle and surface sample by dipping net. Bucket 1:30 Packed up shore party, headed for Oak Hill.

Water Sample Analysis - Berkham, Held

Sample #1 3L + 2L + 1L = 6L Surface Sample
 Sample #2 6L Bottom

Collection #2 Permit

Started water sample preparation - Berkham, Held
 Prep frozen for radioactivity - WSA
 Algae - 2 (1 from net, 1 from dredge)
 land plants - 0, none for permit
 fish - 1
 invertebrate - 2

Disposition of fish from today catch

| | Frozen | Preserved | Released * |
|-------------|--------|-----------|------------|
| Groupers | | | |
| half oak | | | |
| shrimps | | | |
| crustaceans | | | |
| gobies | | | |
| blenny | | | |
| small | | | |
| parrot | | | |
| crabs | | | |
| squid | | | |
| shrimp | | | |
| Soldier | | | |

ct. 2

Jalen
 18
 done

Home
 Biji
 Rojo
 Velle
 #3

pu

| | Frozen | Preserved | Success |
|----------|--------|-----------|---------|
| goatfish | 110 | | 11 |
| cod | 1 | | |
| surgeon | 11 | | |
| mullet | 11 | | |

* Saved only about 1/2 of catch i.e. brought back to ship

8:45 PM Started filtering sea water samples

10 PM Finished filtration

Oct. 23

8 AM Left for Lomon (SALLY)

9:45 AM Reached Lomon. Head + Palumbo ashore at South end of ~~Rojoa~~. Broken + Seymour in ridge water + 1/2 ft.

10 AM First dredge haul from ~~Rojoa~~ 7' (40 feet) haul. Hauled 5 mins. hung up. Small catch dredge ~~Rojoa~~.

10:13 AM Second dredge haul Hauling West off of ~~Rojoa~~.

10:16 AM Hauling shall catch, no algae

10:20 AM Running north

10:25 AM off ~~Lomon~~, 30 feet. Dragging south. 4 min tow hung up. Poor catch except for sponges and

10:33 AM Running off shore

10:36 AM Dredging 1/2 mile off Lomon in 34 feet. 1 min water samples while dredging 34 feet

11:06 AM Hauling dredge - 30 min haul - fair catch - about 1/2 mile ~~Rojoa~~

11:12 AM Planimeter lets out - 1/2 mile off north end of ~~Rojoa~~

12:10 PM Towing south ~~Rojoa~~. Dock South end of ~~Rojoa~~, Pulling in nets. Poor catch, 11/2 D, out.

Island
18,
Lomon

Lomon
Bijiri -
Rojoa
Collection
#3

Area - Extreme NW tip of ~~Lomon~~ lagoon side. where channel between ~~Bijiri~~ and ~~Lomon~~ used to be. Depth 3-6 feet, low coral heads mostly dead and sand covered. Very few fish in area. 7

Oct 23 cont
Collection #3

Admon Island

Time: 12:30 - 1:45 PM Black tide stream
Remarks: started in

| Disposition of fish | Frozen | Preserved | Discarded |
|---------------------|--------|-----------|-----------|
| surgeon | | | |
| sole | | | |
| br spot. grouper | | | |
| eel | | | |
| surgeon | - | | |
| cuttlefish | | | |
| wrasse | | | 18 |
| coral fish | - | | |
| parrot | | | |
| puffer | - | | |
| skimmer | | | |
| hpl beaks | | | |
| troublers | | | |
| damselfish | | | 20 |
| gobies | | | |
| goat fish | | | |
| soldier | | | |

Packages for country from today's collection
Fish - 1
algae - 1; Plant - 1; fungus - 1
invertebrates - 3

8 PM started processing water samples
11 PM finished

Oct 24
10 AM

#4
Cruz Island
10.

FISH
SPECIES

8/20

10 AM

#4

Eugenie

Island
10.

- 10:30 AM Picked up above - rubber boat - 4 rats
 11:00 AM Landed from launch Benham, Lawrence & Peterson
 at Eugenie - Held & Secor on deep water + plants
 11:45 AM Off North end of Eugenie in 46 feet of water
 making first dredge haul. Hauling 5' net
 11:50 AM Hung up. Hauled in. Some algae catch
 12:05 PM 1/2 mile off middle of Eugenie. with second
 dredge haul. Towing 5' & 48 feet.
 12:05 PM Hung up. Hauled in. Same catch as before
 12:40 PM Dredge out. 3rd haul. Same position -
 12:30 PM Hung up. Hauled in. Fair quantity, but
 similar species to two previous hauls
 Depth 55 feet
 12:45 PM Water sample at 55'
 12:50 Off middle of Eugenie - 1/2 mile offshore
 making third dredge haul, and sluff off boat
 and Ed Held jumped over immediately and
 retained same.
 12:55 PM Nets out (see page 8)
 1:55 PM This is the last dredge haul
 2:50 Left Eugenie JANET
 5:10 Got back

Area Point on western side of Eugenie
 Island - two localities on a shallow tide pool the other
 on shore 4-6' deep

Time 1:30 - 1:45 specimens tall

Remarks: Kottmann drafted offshore with
 deep water. Lots of fish

Oct 24
Cont

#9

Englebi

Disposition of fish

Freezer

- Surgeon " "
- Darkfish ###
- Gobies ###
- Br spot group -
- Half beak " "
- Goat fish " "
- Squirrel fish " "
- Butterfly -
- Wrasse ### # # #
- Protuberant ##
- Parrot -
- Apogon -

No of fish of specimens for counting

Fish - 1

Acyl - 1

Plants - 1

~~Preserved~~ Freeze tissue (muscle liver bone, skin viscera) from a 65 cm runner (fork length) caught yesterday by a sailor on Conchita (odd in Captain's passage. Fish was placed in freezer yesterday and dissected today.

6PM Lounman started processing of water samples
 Set stand overnight
 Finished up 8 AM Oct. 25

Oct 25

#5

ogon.
Bogo
Island
2

Oct 25
#5
Bogom-
Bogo
Island
2

~8AM left Oak Hill

~10:30 Engine - Pick up rat traps. 1 large rat

11:30 Left Donaldson, held, Pouchin, Robinsons
off in life raft for landing on Bogom Bogo, BELLE

11:35 1st dredge haul - 50 feet off east end
of B. Towing SE into wind. Hauled 45 mins
hung up. Poor catch - some large coral, yellow sponge

11:45 Second dredge haul out. Same area

11:55 Hung up 1st haul. Brought me very
poor catch

12:02 3rd dredge haul out - middle of B. Is.
Wind pushed us back. Depth 50-55 feet Hauling
SE into wind.

12:12 Hauled in - did not hang up - poor catch
but a little bit of coral and sponge

12:20 4th dredge haul out; same area towing.
same direction

Rays shallow to 35 feet of water

12:35 5th dredge haul

12:45 Hauled in - poor catch - only a few coral
12:55 Plankton net out towing with wind. Hung up 45

1:25 Hauled in net empty off Bogom Bogo

1:35 Nets off shore. Towed back and about
1/2 mile off shore. Towed back to shore. Turned

1:55 Nets with. Running back to B. Is.

2:10 Water sample - 45 feet - off B. Is.

2:45 Feet up of shore plenty, deep for coral and

3:05 outboard

6PM Frank started water samples

u,
look
u

uph

Sunday morning, Oct 26

October 25
Cont.

Area: Lagoon side water 2-4' in depth,
four coral, another coral

Oct. 2

#5
Pogon-
Gogo

Time: 12:30 - 1:45 Low tide 1:51

Remarks: Potomond stayed in one cloud
and drifted parallel to beach for a 100
yards. Dredged up only about 1/5 of kill.
Main species of wrasse.

Disposition of fish

| | Frozen | Discarded |
|-------------------|--------|-----------|
| goat fish | | |
| br. spot grouper | | 9 |
| half beak | | |
| butterfly | ### | |
| lizard | 1 | |
| cells | | |
| squirrel | ### | ### #1 |
| surgeon | | |
| woodish idol | 1 | |
| trigger | 1 | |
| puffins | | |
| cod? ? | | |
| pogon? | | |
| 2 pogon | ### 1 | ### |
| parrot | | |
| damselfish (spec) | 16 | 39 |
| bristled | 17 | 5 |
| wrasse | 93 | |
| grouper (no 1950) | 1 | |
| pipe fish | 1 | |

Phys for
Algae 1; plants 1;
fish 1; invertebrate 2-1 neopl. dredge

October
27th

the
alter

Algal
October
30

Oct. 26 9:55 R.D. E.H. + 45 took off from Parry
 air strip in helicopter for survey
 of northern & western islands and to pick
 up rat traps on Bogom bogo
 Landed NW of Euzebito wait out squall
 Landed Bogom bogo. Pick up 11 traps,
 porate, 2 hermit crabs.
 Landed Rigilli (LEROY) and set out
 9 traps

11:30 Landed at Parry

1 PM Picked up shotgun + case of shells
 on Parry
 on way back to Oak Hill talked
 with Dr. Edgerton who was on his
 way out to see his son's grave.

4 PM Visited the horizon. Talked with
 Drs. Bascom, Munk and Isaacs.

7 PM Dr. Edgerton called Dr. E. and made
 arrangements for some under water
 pictures to be taken on Tuesday Oct. 27

October
 27th

8 AM Left Oak Hill for Rigilli (LEROY)
 10 AM Landed on Palmis held Showman ashore
 for reef collection. Bascom + Seymour on
 beach samples plankton and dredge

9th
 collection

Rigilli
 Island
 36

10:07 AM Dredge out #1. Red buoy north end
 of Rigilli towards SE into wind, 78 feet

10:19 AM Hauling up. Hauled in. Poor catch. 1
 large coral 1 heart urchin
 Ran back to red buoy

10:20 AM 2nd dredge haul out. Hauling up immediately
 haul in. 1 small piece of coral only

10:23 AM 3rd dredge haul out. Off red buoy 13

dredges

10/27 Cont
#6
Rigili

- in 36' towing SE into weed
- 10:35 Hauling in deep water. Did not haul up
made good catch. Filled net full
with *Malineta* squid and
miscellaneous invertebrates & algae.
- 10:50 Plankton nets out. 1/2 mile to mile off
Rigili using nets A+D
- 11:10 Lost A net on coral beach.
- 11:50 Haul in D net. Fair catch off white
side reef with recording equipment
Station 0.15
- Noon Water samples at station 0.15
Depth 67-154 feet
- 12:30 Picked Shore party headed for Squirrels
- 1:45 Squirrels - set out traps, collected two birds
- 2:50 Left Squirrels for Oak Hill
- 4:40 Oak Hill - after a devious route
- Area: Lagoon side, north end in
slab coral. 0-4 feet
- Time: 11 AM to noon

Remarks: Big kill of big fish. saved
less than 10%. Probably
killed 500-600 lbs of fish.
50-60 convict surgeon, a couple
hundred goat fish. Also large kills
of mullet, black spot damselfish and
several large groupers, 7-8 lbs.

10/27
Cont
#6
Rigili

10/28
#7
Squirrels

10/27
Cont

#6
Rigili

| Disposition of fish collected in field | | Frozen | Discarded | Preserved |
|--|--|--------|-----------|-----------|
| butterfly | | | | |
| goatfish | | | | |
| snailfish | | | | |
| blennies | | | | |
| surgeon | | | | |
| wrasse | | | | |
| br. spot grouper | | | | |
| damsel | | | | |
| parrot | | | | |
| eel | | | | |
| lyard | | | | |
| wrasse | | | | |
| ape gora | | | | |

} large sample preserved but not recorded by groups

Nb. of packages frozen for counting
fish - 11
algae - 1; plants - 1.

6:30 foreman started processing water samples
Water samples finished up 10/28
at ~ 8 PM

10/28

#7

Squam

~ 10:30 AM left at 11 - cat till on dry run
this AM
11 AM Parry Island to pick up Dr Edgerton
& camera
12:30 PM Inland Squam - Donaldson, Bonham
Lawman, Pelumbo, Edgerton, De Shean
12:45 In middle of Squam 60 feet towing
S E into fish S E wind
12:51 Hung hauled in a little algae only
12:55 Eureka call from 15

10/28/52
cont.#7
Igurim1. M boats on point to assist in
hauling off beached boat.2:05 PM back dredging in 3 feet of
water sand area as previously,
Hauling up immediately, hauled in
no catch2:15 PM 3rd dredge haul sand
area Hauling after 2 mins. a
little sand2:20 PM 4th dredge haul in 4.5 feet
Hauling up after 3 mins. Small
catch. Have not obtained a good
sample but will have to start
plankton towRunning upwind to near SE
end of Igurim

2:40

Towing around

2:45

Nets out, B (#20 mesh) and D (#6 mesh)
Drifting downwind about 3/4 of a mile
off Igurim Nets 3 to 6 feet below surface

3:15

Nets in 1/2 hour haul only. Better
catch considering time & locality.

3:45

Picked up shore party

4 PM

Edge of reef of the Shiba area beginning
off coral bed in about 40 feet
of water. Water samplesArea: Japan side, middle of sand 4-6
feet water, meaning tide, mostly dead
Coral.Time: 1:30 PM - 3 PMRemarks: not very big kill - mostly wrasse,
numerous convict surgeon10/28
cont#7
Igurim

10/29

10/28
Cont

#7
Seymour

| Disposition of fish | Frozen | Discarded | Preserved |
|---------------------|--------|-----------|-----------|
| got fish | 1 | 1 | |
| Wrasse | 11 | | 27 |
| blenni | 11 | | 21 |
| surgeon | 11 | 6 | 4 |
| damsel | 11 | | 7 |
| fr. sp. surgeon | 11 | 4 | 3 |
| apogon | 11 | | |
| butterfly | 1 | | |
| sole | 1 | | |
| stone fish | | | 1 |
| squirrel | | | 1 |
| parrot | | | 1 |
| ulls | | | 3 |

Prep of samples for counting

Fish - 4

algae

invertebrates - 1 plus 1 pg with Conus shell

Water samples processed by Seymour
 8PM Filled reef car with specimens and
 took sand to cold storage room aboard
 ship (12°F). Were not able to get all of sample
 into car. About 15% were left in our deep freezer

10/29

7:40 AM Benham Donaldson Seymour to Perry Island
 to check thru Clearance for Kelly.

9:30 AM Back to Oak Hill to pick up reef car with
 specimens

10 AM K.B. weighed in at air Terminal, Eniwetok
 for 12:00 flight.

10:45 AM Donaldson Seymour held Palumbo Smith
 and Seymour left for islands on east side

10/29
Cont

to collect large fish and birds (in Mboat #35)
Palumbo caught at 2nd two line marked
in route.

12:30 Laurian + Donaldson off at Permit for birds
no luck.

1:50 Palumbo, Held + Seymour off at Bijuri to
fish for sharks + smaller fish on causeway
joining Homer Island. After fishing a
few minutes a strong squall broke and
we took shelter under bridge. In the
short time fishing Ed caught 2 small
fish (sp.?) and Palumbo had a minute
working on the 2 but marked he was
going for bait but could not swallow
it.

2:45 left Bijuri - rain stop but a good
sea running.
on way back to boat ramp dropped.
Ranat 1/2 speed on account of ramp
+ high sea

6 PM Oak Hill

UNIV.

10/30

Aboard Oak Hill - boat not available
Rearranged gear, painted boxes

10/31

Repainted boxes

Ed set plastic trap in morning off
bow of ship.
at 6 PM one fish in trap. Description
follows

Made up high density goggles by planing
one thick sheet of glass from a welder's hood
(12mm) on front of face mask, painting back side

rest of the trunk several times with masking tape. 17

11/1
7:15 AM Thermomedium bomb detonated on schedule
We were 30 miles ~ SE of town (about 10 1/2 miles
SE of Perry). There was an instantaneous
heat wave that felt like opening a door
on a hot furnace. The fireball was
tremendous, not sharply defined, and
appeared somewhat jagged shaped. At about
the 6 to 8 sec period there was a cloud
between us and the fireball. The exact
time when the fireball disappeared
was not ascertained. At about 10 seconds
Frank said to take off glasses but when
I tried it the light was blinding and
glasses were replaced for about 3 sec.
(Frank's glasses were of lesser intensity
and mine (his eyes had adjusted to the
brighter light sooner) when I removed
glasses, the fire ball had gone. The Tern
was well established with two distinct
downcasts one above the other. The shock
could easily be seen pulsing the way
across the lagoon (but I often regard
shocks as not noticeable). The
shock front was heard as the
Oak Hill in ~ 142 seconds with a
rather prolonged thump, not a sharp
crack, but it tingled the ears. The
accompanying wind was very modest
not much more than a breeze. The
approach of the shock front across the
water was not seen. By this time
the stern had grown to huge
proportions and had mushroomed 19

11/1

out. The base of the stem had the appearance of a series of inverted funnels or a somewhat of a ring appearance. Immediately after the shock front ^{reaching the Oakhill} there was a slight decompression wave that pushed the smoke from the stack towards the detonation point. However the prevailing wind was blowing the smoke in that direction and decompression wave amplified this movement.

after 5 1/2 minutes the main stem was visibly collapsing. No observation of the base barge were recalled.

at about 12 minutes the Oakhill got under way at flank speed with the mushroom still billowing out in all directions. at about 15 minutes a light blue cloud curtain was observed on the left side (west) under the mushroom at some time earlier (see Frank's notes) a group of parallel bands extended from the water into the mushroom at an angle of about 60° with the water. This was also on the left.

at 20 minutes with the Oakhill running away from the zero point the outer edge of the mushroom had approached & nearly over the Oakhill, was very high, and had thinned out. The lowest or

11/1
 densest part of the mushroom at this time seemed to be the portion moving to the south. The cloud pattern formed by the bomb could still be seen. From 25 to 15 mins or later an orange color due to nitrous oxide was observed rather diffused at first near middle of vertical column and later higher. At 30 mins the mushroom did not appear to be expanding.

J.R.V. and Lewis estimated height at 80000 ft. Held thought it was somewhat lower perhaps 60000 feet.

Weather was generally fair but with some clouds that interfered with observation of the details of the storm and mushroom. There was a light E ground wind perhaps 15 mph and the sun was just rising at time of detonation.

~21M AVR went to search for F 34 that was down in the lagoon this morning.

7:50M Sunset was extremely colorful and magnificent. Many commented that it was the most beautiful ever seen. The moon was visible but was seen through a very high haze. It was thought that the magnificence of the sunset and the high haze, both which the moon should have been due to an unusual amount of suspended material in the atmosphere due to this morning's bomb.

| | | | |
|----------|--------|-----------|----------|
| | Frozen | Preserved | Discards |
| blenny | | | |
| grouper | | 1 | |
| suffer | | 1 | |
| trigger | | 111 | |
| flathead | | 1 | |

Prep for counting
 fish - 1
 algal - 1; plant - 1
 birds 1;
 invertebrates 1
 water samples - 2-500 ml.

19M

Took water samples in collecting area.
one sample at surface; one at bottom 4 1/2 feet

Took tissues from a 320 gm. Squirrel fish.

11/4
 Laurin
 129

8:20 Left Ockfild
 9:15 Dredger, Freeman Hill & Palumbo
 ashore Laurin. Squirrels with samples etc
 9:20 Dredge hit Nend Squirre - 45 feet
 9:26 Hung up. Hauled in, good catch of
 algae only
 9:35 2nd dredge haul out
 9:44 Hung up hauled in mostly
 algae & little coral. 50 feet
 9:50 3rd dredge haul out
 10:04 Hung up Hauled in mostly algae
 10:11 4th dredge haul out. same area
 10:13 Hung up Hauled in
 little algae was all

111

11/4
Cont
#9
Igeron

- 10:20 Running SE into fresh wind
10:30 Turned around $\frac{3}{4}$ of a mile off the
middle of Igeron
10:35 Plankton net B & D out. Drifting
swims out off. Plenty of wind to
keep nets well up, 4 to 4 feet
under surface
10:50 approaching reef, lifted nets. Running
SE into wind, out off shore
11:05 Nets out $1\frac{1}{2}$ miles off middle of Igeron
Emerged off drifting NW.
11:35 approaching same reef as previously
lifted nets. Running SW into wind
11:45 Nets out for a third time. Drifting
12:20 Nets in, drifted down ^{near} to same
12:30 Water samples, 60'.
12:40 Picked up shore party
2 PM Dep. Hill

UNIVERSITY ARCHIVES
UNIV. OF WASHINGTON

Tissue for activity counts sampled
from following fish

1. Parrot fish, approx 2 pounds, outer reef
2. Siganid ~~fish~~ 454 gms " " "
3. Pig fish, approx 3 1/2 pounds, inner "
4. Parrot fish, approx 1 1/2 " outer "

Wrapped up 2 pkgs of preserved fish from
yesterday's collection and placed in car

Area: Same as Collection # 7

Time: 10:50 AM - 12:30 PM

Remarks: Low tide about 11:30. Fair kill, lots of birds,
saw several groups of birds, heard fish

Note:
See next
page #

11/4

Disposition of collection

egg
mammal
bird

| | Frozen | Preserved | Discarded |
|----------------|--------|-----------|-----------|
| Seagull | | | I |
| Butterfly | | | III |
| Br. spot group | | | |
| Lizard | | | |
| Agouti | | | |
| Arctos | | | |
| Small | | | |
| Surgeon | | | |
| Cost fish | | | |
| Bl. deer | | | |

14 other small

* Took tissues from 245 gm. growing group.
 Number of pieces frozen for counting:
 fish 1
 algae 1 1 plant
 invertebrate 1

11/5

#10

Right

8:30 Left Oak Hill for Perry
 9 AM Perry. Picked up Kelly and
 Captain Curry. unable to get clearance
 of tidal wind expected at 10:30 AM
 they came later by helicopter
 10:55 AM Shore party: Williams, Donaldson
 Hold Rowman, Kelly and ashore
 11:05 Hedge out. Making sure in
 changed
 11:08 Caught rope in starboard screw.
 Will have intake at present and
 run up on beach about 1 PM

27

11/5
#10
Frigate
boat

11:15 nets out, 1/2 mile off N end of
Frigate Towing E. Fresh SE wind.

12:15 Nets in - Towed for one hour in an
easterly direction under power all the
time. 2 miles off Frigate.

Tidal wave reached Enewetak
at 10:30 AM Height 0.9. First one
recorded by the Coast Guard.

12:30 Water samples Depth 55'

2:15 PM Backed up reef gun.

Too stormy to go over side to
fix starboard screw on account
of tidal wave can not beach boat.

2:30 Running into fresh SE wind
with one engine only.

Boat on sharp broke.

5:40 Going Island to discharge Bacon
& Kelly.

6:30 Crew cut line & dredge out of screw.
No damage to screw.

Location: Lagoon side collection made in
shell crater. Porpoise drifted along
lagoon side of island. Kill was
mostly goat fish, cowfish, surgeon,
damselfish, wharfish, spot, grouper,
Bryell. Some area no
collection.

Time: 11:45 - 2:00 PM

Remarks: Did not fall for a long time -
then drifted fur.

11/5 Tissues from Columbia
 1-200 gm goat fish
 1-148 " " "

art arrived this morning

added 5cc of HNO_3 to water samples

Packages frozen for counting

fish, 1
 invertebrate 2, plus 1 for dredge
 algae, 1, plants, 1
 birds, 1

11/6 8:30 left Capital for Jersey to pick up
 Oyle badge

8:50 Jersey

9:30 left Jersey for Revere

10:15 off Revere

10:28 First dredge haul off North end of

Revere. Towing 5E into wind

10:32 Hauled in - too deep - dredge not

digger in. Using new net. Depth

75' at end of tow. Practically no catch.

Ran in shore

10:36 2nd dredge haul out, 20-30 feet of water

Towing into wind

10:41 Lifted - did not hang up - good catch but not

large, 90 m² hard 140 m² soft beta

and 15 m² F at 2"

10:46 Dredge out - same area - 20 feet at start of

tow

10:50 Bottom atop water samples 20

11-6-52

11
Rumit

10:56 - Dredge in, did not hang up

10 min tow! Good catch a
little large fish east

Activity about well as great

11:10 Donaldson, Melander, Lowman, Helms
& Pakumbo going ashore on Rumit
in rubber life raft. They helped
with dredging before going ashore11:20 Plankton nets B and D out off
north end of Rumit. Running down
wind NW with light breeze at slow
speed12:20 Hauled in plankton nets. About
2 miles off shore, 1 mile north of
Rumit

12:45 - kicked up shore party

Area: 0-6 feet water, slack tide on
sand spit 200 yds north of mark
on Rumit.Time: 11:30 - 12:30 PMRemarks: Poor kill except for goat fish.
About 50 goat fish killed

Fish from which samples were taken for counting

1-200 gm. goat fish

1- " " " "

1-86 " br. spot grouper

1-69 " jack

1-114 " Corvix sphyraena

1-76 " br. spot grouper

1-108 " Corvix sphyraena

ENTER NAME OF VESSEL
ENTER DATE

Fish frozen for counting

| | | |
|------------------|---|---|
| Squirrel | 6 | } |
| damselfish | 9 | |
| parrot | 1 | |
| wrasse | 8 | |
| <u>butterfly</u> | 1 | |

No. of Pkgs frozen for counting

fish 21
invertebrates 2 from reef; 1 from dredge

- 1-7-52 8:13 Departed John Law Baker
- 8:27 Elmer - Pick up Capt. Army, Currier
Stevenson, and a recruit
plus clothing issued and pilot badges
- 2:43 Departed Baker
10 off Garambiru
- 10:04 1st dredge haul 1/3 mile south
ROJOA in 23 feet. Towing off
- 10:10 Dredge in. Did not hang up. In 55 feet
of water, small catch a little coral & sand
- 10:12 2nd dredge haul out. Too deep to reach
bottom. Rummaging inside
- 10:21 Hauling on did not hang up. Depth 55 feet
Small catch, mostly sand. See Courman's
record for activity.
- 10:27 3rd dredge haul - 58 feet off middle of
ROJOA towing inside
- 10:30 Hauling up. 28 feet. Lifted some coral
and little algae

11-7-52
Cont.

#12

10:32 4th dredge out - 30 feet same area

Activity mostly on sand rather than coral

10:38 hung up about 30 feet. Coral & sand activity 150 m or of r

10:55 Dredge at Rajon ROJON

Fourman - Dehaldeen - Palumbo - Seymour
island to set traps and collect plants
Monitor Capt. Curly & 1 other also ashore

11:30 Aboard in boat 32

11:35 off ^{Araabiru} Vera just south of ROJON

11:40 Fourman & Monitor ashore to collect birds

11:45 All except Seymour pushed off in life raft to collect on Vera

11:50 Picked up Fourman ^{Araabiru}

11:55 Nets Band D out off Vera. Towing NW i.e. downwind under steam

12:55 Nets in 1 1/2 mile off of ^{Bijiri}

1:15 Water samples, 25 feet at marker between ROJON and ^{Araabiru}

1:25 Picked up shore party

3 PM Army Island

3:50 Left Army

4:25 Off Hill

Area: middle of island 4-6' of water lagoon side. Kill was' poor. Poison drifted upon & here not moving fish. Hard stone & stag horn coral

Time: 11:50 - 12:45

#12
Rajon
Araabiru

N
7
1
1
2
1
2
6
8
8
4
11

NOTE: AOMON, DISIKI, and ROJOA have been mislabeled. Collections labelled Aomon are Biquian. Biquian, Rojoa and Rojoa are Acropora. Collections have not been made and will not be made.

7-52 Fish from which sections were cut for staining
 cont
 1- 410^{mm} sp. grouper
 1- 140gm combret surgeon
 1- 110gm half beak
 1- 92 " " "
 1- 86 " " "

Fish frozen for counting: -

2 - damselfish

1 - Surgeon

3 - eel

1 - grouper

7 - cardinal

2 - squirrel

2 - jacks

1 - Surgeon

7 - wrasse

6 - Parrot fish

450gm freezer, for counting

Fish, 1

Algae, 1 plants, 1.

birds, 3.

invertebrates, 2 (including dredge)

8-52 8:05 Left Oak Hill

8:40 Ferry delayed to pick up Mr. Stevenson and Mr. ... with clothing issue, film badge and pocket dosimeters.

10:35 Dock Biquian to pick up rat traps. Lawrence Donaldson, Meland, Stevenson + ... advise

10:45 Water samples of yesterday spilled. Taking new samples at white marker in 30' depth (same area as yesterday sample)

- 1-8-52
cont
- 11 AM left Rijiiri
- 11:55 Donaldson, Lowman, Held, Wetland, Kalambo & Stevenson ashore on Eugebi.
- 12:10 15' dredge haul of sanding in 60'
- 12:15 Dredge in, too deep. No catch. Rounding in to pick up monitor.
- #13
- 12:30 Dredging off sanding in 30' of water.
- 12:36 Haul up. Hauled in some coral & miscellaneous in the sieve.
- Eugebi
- 12:39 Dredge out in 15-20 feet.
- 12:43 Haul up. Dredge pulled in a little sand & coral. Sample in monitor.
- 12:45 at Monterey waiting for collecting party.
- 1:05 Left Eugebi. Because of radiation, time to work on Eugebi was limited since there was no time for plankton tows. Total allowing 23:15. Water sample taken in 25' water.
- 2:00 Off Alice. - Donaldson, Kalambo, Wetland & Held ashore in rubber life raft. From crater to Alice counted 26 dead fish floating by. Some appeared to be crushed. White color in others appeared normal.
- 2:05 Water sample off Alice in 25 feet of water.

- 11:52
12:00
12:10
12:15
- 2:12 Nets out off Bogom bogo 1 mile. Power
of drifting NW with wind
Hauled nets Band D with new net
subst
will not have time to dredge, so will
take plankton hauls only
- 2:42 Hauling in nets. Fair catch
- 2:50 Packed up sleep party
- 2:55 Running for ~~Park Island~~
Oak Hill
- 5:30 Arrived OH

Fish frozen for counting -

- Eusebius (Jawlt)
- 4- Butterfly
- 4- Goatfish - found clins - back-rookin.
- ~~4- "~~
- 1- Cardinal
- 6- Wrasse
- 8- Damselfishes
- 2- Squirrel
- 2- Pomphretids
- 4- ~~Damselfish~~ fishes - Surgeon.
- 2- Groupers
- 1- Parrot
- 1- Blenny

UNIVERSITY AND HERBES
UNIV. OF WASH. LIBRARIES

(over for Alice)

32

11/8 cont
#14

Fresh frozen
Bozallua (Alice) 11/8/52

- 6 - Groupers
- 1 - Snapper
- 10 - Cardinal
- 2 - Squinnet
- 3 - Butterfly fishes
- 1 - Puffer
- 1 - Filefish
- 5 - Gobbies
- 4 - Surgeon
- 10 - Wrasse
- 5 - Danial
- 3 - eels
- 5 - Pseudoserranids
- 2 - Brotulids.

6PM Out to sea for rehearsal

11/9 3:30PM Back at base in lagoon of Eumetick Is.
4:30PM Lowman, Palumbo, Ullander
set traps on Annon - Bizira

11/10 8:30PM Lowman & Ullander to pick up traps

Packing, storing and making
ready for shipping
Stowed refrigerator and 5 or 6 boxes on
Jerry plane 12 black rubber life rafts
Sent home via Oak Hill 1 rubber life raft,
1 square can of preserved fish plus about
4 boxes
Took with us on plane 2 round cans

with frozen specimens, 1 box with water and plankton samples, and 1 case of instruments

1201 left Eimustok

2:22 PM Kwajalein - Grounded, one motor cooked out

5 PM Donaldson & Welanders left Kwajalein with frozen specimens

9:48 PM Bernier, Held, Palumbo & Seymour left Kwajalein

6:57 AM (Johnston Is. time) landed at Johnston Is. Grounded. Engine trouble

3:50 PM left Johnston Island

9:28 PM Arrived Hickam

checked thru MATS, Immigration and Customs

11 PM Met Donaldson

11/13

Cleaned up, ate dinner and repacked

2 AM left for airport

4 AM Scheduled takeoff, NW airline, municipal airport
Returned to Kalahele

5:45 AM Took off

5:50 PM Portland (PS Times)

6:25 PM Left Portland

7 PM Seattle

11/14 Collection 6, Pigi's invertebrates being processed. Counter (Transtab) has not arrived. Delivery date now December or January.

11/17 M Finished processing control invertebrates i. e. completed collecting #7, Legumin, Donaldson made assignments for completing Pacific area work lab meetings. Room 108 being readied for ~~testing~~ decision area.

11/18 T Moved drying oven to room 108. Dorothy working on water samples. A 3 ml. water sample from Bogallua (Alice) counted about 750 per min yesterday when counted in Nuclometer. Prepared two plankton samples for processing. Did not attempt to determine wet weight, allowed samples to settle in graduate and then measured volume. Will reweigh after drying and after muffleing

11/19 W Frank working on both of Nuclometers which have been out of commission since Monday, #185 fixed and back in operating condition but still needs further repair. Difficulty now in counting chamber. Art started processing fish, beginning with the holiest samples. Kelly working on radio autographs. With fluorimeter opt. exposed in 15 hours. The dried Bogallua plankton plates counted 19 mR and more than 20 mR respectively.

Plankton Sample - Remit - 11-6-52 Net D
 ~ 8 ml. Many misc. eggs (1 oval shaped);
 arrow worms; filamentous algae; foraminifera;
 copepods; ~~the~~ ^{the} ~~shell~~ ^{shell} of a shrimp like animal but no
 body; hydrozoans; rope fibers

11/20 Th

11/21 F

11/22 Sa

11/24 M

e.
work

11/20 Th. Nucleometers repaired by Frank, Both in operation, Commission.
Work on plankton, fish, radionuclides, algae continuing

11/21 F one nucleometer out of commission.
Frank estimated half life of sand sample is now 5 days. absorption curve made with both plankton & sand sample. Plankton sample will be counted daily for decay curve.

g.
work

11/22 Sa Paul working on ashing, weighing, and will count samples for decay curves. Palumbo working on plants & algae, Seymour on plankton.

have
in
u

11/24 M. Started counting the post test samples. Completed preparation of all plankton sample fish invertebrate, rot, & flora samples being prepared.

it
u
u

UNIV. C.