

Laboratory

410685

Log

and Operations Log

Eniwetok Atoll

March 12, 1954 - April 22, 54

Vol. I

UNIVERSITY OF WASHINGTON
APPLIED FISHERIES LABORATORY
SEATTLE, WASHINGTON

Locality PARRY I. ENWIK Atoll Date 115 MARCH 1954
Personnel HELD, PALUMBO Weather intermittent clouds - windy
Water conditions white caps
min temp 76°F Max 84°F (0800-0800)

Radiation level(s) NONE CHECKED (caution Bkpd. 20 cpm)

Operations: ACRIM
Called RE. PHOTOS of subject islands (MATUMANGUM),
REPAIR of 6 faucets which do not set properly; INSTALLATION
of 2 DEEP FREEZERS, DRYING OVEN, AND MUFFLE OVEN;
LOWERING of PORCH to PROTECT WATER TABLES FROM
SUN. Took 3 photographs of sooty tern (mud) with
Speed Graphic F16 1/50th - Pan X. Ed in checking his trap
noticed that he saw no fish of any kind, shape or
size on the reef fled behind the Lib. low tide. (Noticed
the same thing two days ago - However, on the 1st day out
we noticed very many fish of all kinds -

This afternoon went spearfishing for 2 hours with 1m lens and
ACF. Trawl heavy and multi-barred tips on barbittles. No
Aqualungs used. Total catch 1 8" goat fish w/ heavy tip by
Palumbo, 6 small (2") fish by Held w/ dipnet. Tried keeping
3 of the small fish alive in aquarium with sea water from the pipe
system - they lasted about one half hour. Have been letting
sea water run continuously in the hope that toxicity due in large
part to water standing in pipes. The small fish brought back
overboard taken up and held in bucket of water. Keeping them in
water brought back to bucket.

Received letter from Lata. Seattle + Tide tables for Marshall
Islands. Enwitek first news since we left Seattle Feb 24th.
Arrival photo of the island and the land will be ready
in about 3 days.
Plumbing has been ordered. Palumbo

UNIVERSITY OF CALIFORNIA
DIVISION OF GEOPHYSICS
STATION CAMPBELL

Locality HELD, 10 miles from ... MAR. 11 1952
Personnel PARR: (blank), I with Hottel ... (in Sunny [76-25°F])
No. of ...

Radiation level(s) ... 10.8 PM 7.9

Operations
Electric fixtures ... (TI) and Sgt. ^{Turnbull} T-3
both called to ... contact Dr. Donaldson
in Seattle ... had left for Travis
Air Force Base ...

Question how ... what collecting, trip to what we
were led to believe was ... We had the impression that we
were ... which was still part of
I ... but he ... intercom that it
was ... (w/ hand
of photographs ... could not have been on
Main - Will find out ... who arrives here
in a day or so.

Some of the most ... equa-long
lessons from ... see below
... about scintillation
counter.

Arg. ... found ... frame under
well ... force ... and
... before Hottel was satisfied
without ... better than
this ...
back ...
to ...
...
of time ...

UNIVERSITY OF MICHIGAN

APPLIED SCIENCE DEPARTMENT

STATE COLLEGE, MICHIGAN

Locality PARRY Island, Cook A. Bell17 March 1954Personnel HEID, P...AM Sunny cloudy PM cloudyAir Temp 73-80 FWIND ...Radiation level(s) Routine lab checks

Operations:

Electricians finished installations for the operation of pyrometer which is giving them a history. Last day we went out to edge of reef behind... collected many... growths of Asparagopsis, Halimeda and ... and ..., chopped out a few pieces of ... & ... on the surf. Saw very few fish out there. Met Ann... Dr. Haight and Maj. Cutler... looking for... and to see how we were set up. Said Dr. ... would be here April March 21st.

Dr. ... and Major C. Barnes arrived late today approx 2:00 with gear and lots of information. Scupper information all around for 1 1/2 hrs... swimming and aquanauting under supervision of ... of Scupper. Had filled aquanaut tanks at CMR... Hallett for refills. Filled to 2200...

Locality Penny Id. near Atoll March 1954
 Personnel Donaldson, Eugene Olson, and [unclear] PM. Sunny Clouds
 HELD, [unclear] 22-27°F

Radiation level(s) Routine lab checks (1/2/1/1)

Operations:

Lab cleaned up and material put away -
 Olson, Barnes, [unclear] on reef behind
 Lab. Tried edging soil around with rock -
 Rotenone did not wet properly and waves
 moved it around so that [unclear] more
Asparagopsis samples for assay at home
 Lab. A [unclear] away Lab - and

Swimming pool at beach Penny Island
 Air sampler #1 assembled and started
 in spot directly east of laboratory approximately
 8 feet above water and [unclear] feet from shore
 at high tide. Sample started at 1400 hours.

Time [unclear] [unclear] scale of 1" = 100'
 from H-1 [unclear] 22 [unclear] [unclear] traced
 from 3130 [unclear] [unclear]

Locality Parry Island 20 MAR 54
 Personnel Held, Zainab, Barney, Fair - windy 7:00 - 1:00
 Also in Smithsonian

Radiation level(s)

Operations:

Traced at the map of Parry Island H+N Sheet No. FS-6003, and Pearl and Hermes Reef H+N Sheet No. 2249-P-17. Both are sold in the local market and original copies of maps in file.

Long table at 10:00 AM collected samples of fish from reef and shallow area near the pier. Used about one-half pound of bait and captured 46 fish from the reef forms. The fish were used for study of classification and tagged marks. The traps were hauled and made ready for use.

The first sample from the air filter unit provided by R.E. was marked to file.

Em marked down the Robot camera and put out the case to protect it from water.

Work was completed at field. Day following very practice x

Locality Parry Island 21 Mar. 54 (Sunday)
 Personnel Barnes, Hall, Palumbo, Williams - Wind 77°F - 86°F
 Olson + Donaldson

Radiation levels

Operations:

Sunday routine, a day to do the things that we do not get done the rest of the week.

Repacked the shipping boxes. The large crate used to ship out the glass boat was used for storing the smaller boxes and the board used as lid. All the boxes were saved except the cardboard frames that covered the refrigerators. Repacking should be done with care to insure the reassembly of the boxes to fit each item.

In the afternoon we all went to Fronted Island to visit the PX - no luck. The PX was closed.

T.L.H. advised as to possibility of a food survey of certain island islands. Conditions for a survey were outlined to T.L.H.

Z.P.S.

Locality Paradise Island 12 Mar 1954
 Personnel Barnes, Halden, Rains - Wind 76°F - 81°F
Palumbo, Olson, High waves + surf
+ Donaldson

Radiation level's Alice shielded 1 Emphr, open 20 mr/hr

Operations

Loaned a 1000 ft roll of film from the Univ. Baum Lookout Mtn
 unit as stated earlier per 1000 ft. H-H delayed until 1300.
 Finished breakfast, drinking tea, and with 10 hrs run
 out from the island. Helicopter trip around
 atoll. 1900. H-H stopped at Alice for
 some time. Made plant collection at Alice.
 4 Boxes specimens collected today. Took photographs
 of damaged and growing plants on Alice and
 rocks etc. from the reef flat. Screen
 made near Alice at Baker (Alice). Bell-gamma
 meter. 1000 ft roll of film on island. Shield closed
 (A) 500 ft roll of film (B) 2000 ft/hr
 left roll of film to be developed
 Evening passed collecting plant samples
 from the reef. R.P.D.

During stopover near Alice 2 rats were
 seen. It is felt that numbers of rats
 must be present on the island if
 two were observed during daylight
 hours.

Some rats during were seen at
 Alice but none were observed. It
 seems probable that rats could
 survive the high radiation levels
 that have existed during the past year
R.P.D.

UNIVERSITY OF MONTANA
Department of Geology
BUTTE, MONTANA

Locality Perry Lake, Montana 24 March 1959
Personnel Benson, Field
Alson, ...
Donald, ...

Radiation level(s)
Operations

I was ... party ... (5) accompanied
by ... Shipman ... checked out
at Perry ... land ... by "M" boat to
Sanctak ... the plane a C47.

Perhaps ... really been worked over ...
would ... recognizing the place ... the site
for crossroads even though roads have been moved.
The least ... ridge ... and Enger. The
entire ... chain ... has been made
into an ... strip ... site. Buildings
on Tare ... were ... up by
the blast of ...

... us from Tare
to the deck of the ... where we had
lunch. ... of the Piroves
showed us ... of the ... by
porticals ... the ... The piroves were all
about ... of the beams were
about the ... match, raised and
drably ... sailors complained about
the ... taking ... the piroves were
well along ...

We ... on D.D.F. #49 of "M" boat
... went to
the Estar ...

UNIVERSITY OF CHICAGO
ATMOSPHERIC SCIENCES
RESEARCH LABORATORY

Locality Pitkin Peak
Personnel George Field
C. W. ...
D. ...
March 1954
... gusts of wind & rain

Radiation level(s)

Operations

Operations were delayed 24 hours while
snow was made to ... party of natives
and ... tomorrow ... pick up the
meat ... didn't carry
away the ...

Our ... called the Eskimo
the attempt to get ... for the trip
I visited ...

In addition to ... and ...
... the ship
... to sea about
... and
... that we watched

... the mistakes of
going ... the ...
... the ...
... the ...
... the ...
... we

Locality Pongelan, Atoll Station 154 (cont.)
 Personnel McClintock
McClintock
 Radiation levels
 Operations

| <u>Loc. a - 154</u> | <u>Station</u> | <u>Height 3'</u> | <u>Height 1"</u> |
|------------------------------|----------------|------------------|------------------|
| 7. Beach near high tide line | closed | 180 mr | 220 mr |
| edge of island | open | 300 mr | 600 mr |
| 8. East side of island | closed | 200 mr | 220 mr |
| above high tide line | open | 350 mr | 700 mr |

No mammals were available on Kapardj so proceeded to Kabelle after setting six (6) rat traps & 10 rabbit traps & 1000 sq. ft. soil from Kapardj.

On Kabelle Island collections were made of plants, algae, invertebrates, birds and fish. Collecting in soil and for invertebrates except rats.

Population breeding 10th to June = 19.

Locations Station Height 3' Height 1"

Kabelle I

| | | | |
|-----------------------|--------|--------|---------|
| 1. Beach rocks | closed | 48 mr | 30 mr |
| inter-tidal zone | open | 90 mr | 350 mr |
| 2. East end of island | closed | 100 mr | 150 mr |
| first tall tree | open | 160 mr | 350 mr |
| 3. Edge of forest | closed | 280 mr | 370 mr |
| edge of island | open | 500 | 1.4 r |
| 4. Open area | open | 200 | 1.12 mr |
| station | open | 600 | 1.7 r |
| padding of island | open | | |

Locality Rongelap Atoll 1000000 154 (cont)

Personnel W. H. ...

...

Radiation level(s)

Operations:

| <u>Location</u> | <u>...</u> | <u>Height 3'</u> | <u>Height 1"</u> |
|--|------------|------------------|------------------|
| 5 Coconut Grove on lagoon side of island | ... | 4.50 mc | 4.80 mc |
| Edge of trees | ... | 3.70 mc | 1.5 r |
| Lee side of trees | ... | | 2.0 r |
| Windward side of trees | ... | | 1.5 r |
| | | | 2.8 r |

On the morning we returned to Rongelap island to pick up books as the D.D.E. had been ordered to regain the lead of the fleet at position. Books were taken & Readings were made with the instrument loaned to us by the ... This instrument had no ... measurements were comparable with ... the crew ... 200 mc to 500 mc ... about the same as the ...

Locality *Wallops Island, Virginia 27 Nov 1954*

Personnel *James H. ... Fred ... clouds
Palumbo ...
Local ...*

Radiation levels

Operations:

*During the night the WAF found the
rest of ... 32 ± miles
S.E. ... time was set for
6:30 AM ... on schedule
to the ...*

*Major ... between this spot
and ... over the
ground ... color. The
usual ... red
but a ... color
was ... almost
just ...*

*The ... was much
cheaper ...
... front
... spot*

*... out over
... and at
... began
...
... 2:30 P.M.
... to the ...*

UNIVERSITY OF CALIFORNIA

Radioisotope Laboratory

DAVIS CAMPUS

Locality *Perry Island, Antarctica, 28 May 1954*

Personnel *Barnes, Hibel, ... 199-19207 - long for days away*
Pelton, ...
Jordan

Radiation levels: *0.1-0.2 mR/hr on Perry Island*

Operations: *Returned back at Perry Island moorage about 8:30 AM. The animal equipment included in case of ... to Perry Island was included ... beat there by truck to ... to Rad Safe. Film bags were put into Rad Safe as was the ... clothing. Rest of ... glass falls were packed ... equipment. Dissections were ... to prepare material and ... to the laboratory for ... and counting. It was ... of the press for time to ... freeze the tissues so ... as originally scheduled ... to leave as ... possible for getting out ... and alive. Equipment ... for ... of the ... of the two sites.*

PROCEEDINGS OF THE EXPEDITION

APRIL 1954

1954, N. O. B. 100

Locality *Party Island* *1000 Yd March 54*

Personnel *Palmer, Hill, ...*

Palmer, Hill, ...

Donckert

Radiation level(s) *Peak around 4:00 PM, ranged from 20 cpm to 626 cpm.*

Operations: *collecting ...*

... making up the

... all ...

... packed

... of us put

... samples collected

... about 200-

Plains

Work ...

... organized for

... for land and

... through T-6

... blocks

... constructed with

... a line

... of the island

... from with

... on the island

... been

... 626 cpm.

... with

... 7-8 m x with

... scale

... had

... of

... busy

Locality Parry Island, Alaskan 30 Mar 1954

Personnel Barnes, Hild 76°F - 90°F
Palumbo, Olson 70°F
Doak

Radiation level(s) Temperature with wind varied near 218 Bldg

Operations

Tested viability of Caracanthine Island
 (Vera) with by north trip for Urosula
 from Urosula boat back
 to Vera.

Collected Urosula of land plants, fish
 invertebrates, and Urosula. The traps were
 set for Urosula and left overnight to be
 checked tomorrow. Urosula samples may
 be obtained.

Made a sketch of the island and
 marked the Urosula and Urosula marks.
 The Urosula was Urosula at
 the high tide level of Urosula
Urosula Urosula Urosula the
Urosula Urosula Urosula the original
Urosula Urosula Urosula that
 has a Urosula Urosula of the island
 was Urosula Urosula for our needs
 for Urosula Urosula Urosula
Urosula Urosula Urosula Urosula

UNIVERSITY OF CALIFORNIA

Department of Zoology

Field Station

Locality: *Parakee Island, Bikini* 31 Mar 54
 Personnel: *Barnes, Neill* 72°F, 88°F
Palmerton, O'Brien Altitude: *fairly calm*
Henderson

Radiation level(s): *Each ground count 10-20, outside 10 m r at*
10 m r height

Operations: Major collection completed working up
 the trees collected yesterday at Anasaban
 (Uea). There were traps from the animals
 and great pains to insure the protection
 of material to ship home to U.S.A.

Barnes field returned to Uea to collect
 rats from traps set there before. Seven rats
 were caught in ten traps. Most of those
 captured came from the grassy area near
 middle of island. Some of the rats were
 sacrificed for samples and two were
 skinned for specimens. The left hind outside
 toe and other right hind outside toe. The
 naked skin and skull.

Mr. Gene B. Brown, Director, Office
 of Test Operations, visited 218 Bldg
 to look over the place and discuss
 operational needs for next year.
 The requirements for winter base and
 Bikini in transportation and sent
 Mr. P. W. Shaw, Field Manager, Eniwetok,
 Field Office, Waberg area. New parties
 as radio 854 on 31st April 1954

UNIVERSITY OF MARYLAND

ZOOLOGICAL LABORATORY

14011 MARINE BLDG.

Locality: Pring Island, St. Johns Bay, Barbados, West Indies Date: 14 Nov 54

Personnel: Bernice + Patricia + John + ... Time: 10:00 - 11:00 A.M.

Radiation level(s): Counts per min. 200

Operations:

Sunday morning of 14 Nov 54. Spent the forenoon at ... about 1300. Bernice + Patricia left ... (South side to go to set out traps + photographs). Twelve rats were observed mostly around old hammers. Most of the rats were gray in color indicating a new species. It was also noted the ten species of these rats to den as indicated by huge holes in the ground with several entrances. Fourteen traps were set. There were very few birds on the island and none taken. See 9am notes re mammals. Plant specimens abnormalities - brown + reddish ... bona tuba, tumorous proliferation of ... Sida alba - yellow ... giant plants; Fraxinus ... reddish purple chlorosis of leaves ... these plants photo ... plant ... extreme yellow ... these plants will be dried, pressed, photographed, mounted, etc. taken.

UNIVERSITY OF WASHINGTON
 SCHOOL OF BIOLOGICAL SCIENCES
 DEPT. OF MARINE BIOLOGY
 SEASIDE WASHINGTON

Locality Elmer, just above ...
 Personnel Palumbo, ...
 Held

Radiation level(s) ...
 Elmer ...

Operations:
 Rat bait control ... Held to Engcha
 to collect rats ...
 Palumbo & Olson ... mapping and laying
 of markers ...
 Olson and ...
 and Palumbo at ... Scott's stakes placed
 at 100E, 200E, 300E ...
 beach pavement ...
 for pre shot ... collected ...
 near shore, ...
 Held w/ assistance ...
 leg panels & black ...
 for fish tissue ...
 shark hunters ...
 of Ursula (Repa) ...
 at P. arm. Id.

Send ...
 File No. P0204 ... Rec'd.
 JF-7012 (cont) ...
 Dr. ...

UNIVERSITY OF WASHINGTON

INSTITUTIONAL REPORT

SMITHSONIAN INSTITUTION

Locality ELMER, JANE 7 109 Date 4 June 54
Personnel BARNES, G. G. (T. G. G.) W. G. G. (T. G. G.)
Hell W. G. G. (T. G. G.)

Radiation level(s) Counting by Geiger

Operations:

TWX Log No. 70 250X File # FOZD410Z RETURNED
To MAIL ROOM 12 rat traps 2 rats 1 shore bird Reset traps at Tilt
prepared - weighing 33 Tom
Slipman visited Dr. Gant from Honolulu
who is attached to Palmborg's
locks 36' long drilled out wells
re TWX

trying a modification of DE Hallett
unit obtaining operate only contact G.W. Skouson
or R. Dugan

Rained very hard
Barnes had 12 traps set 2 rats
36' long and muscle encased before

UNIVERSITY OF WASHINGTON

MARINE BIODIVERSITY LABORATORY

1100 WASHINGTON ST.

Locality _____

Date

10/12 (CONT.)

Personnel _____

Year

Water

Radiation level(s) _____

Operations:

While sketching coral head at 300'w in logcanal Vera observed small pipefish ^(about 4" long) several minutes. Was rapidly feeding on polychaete (polychaete) which was growing on dead coral. Fish gave impression of forgetting to hold on with tail only & he swept away never more than a foot by current. Would then swim back to approximately original position. Took photo that did not "fill" although camera set for 4" fill. Parrot fish were swimming singly in schools of 5-30. Most were grey, a few were green. Some schools mixed. One *Hemalium* stayed in the general area, barely noticed when I looked for him for about 40 min. While counting sea cucumbers along the transect ^{bet. in 300'w + station} a few small white fish (3-5") were seen at the extreme ends of holes in the white sand. Many other fish seen from time to time including minute (less than 1/2") ^{resident the} "dancing" between coral branches, but the *Huma* & the small white fish were the only ones that seemed to restrict themselves to an area of a few square feet.

Tonight discussion with Olive & Vera Friday & Sat. & H. flight for birds for algae + sea cucumbers.

Got two 4x5 film packs Super-XX (D-1072, D-1073) from F.D. (P). Carl Paragraft sent by Marian Chase arrived.
 called in to shift at CMR.

UNIVERSITY OF WASHINGTON

LEONARD FISHER, LEADER

LEADER, WASHINGTON

Locality PARRY, AITSO Date APR 54
 Personnel PALUMBO, BARNES, OLSON, HELD Weather 78-92°F Cloudy w/occasional rain until 1100 at AITSO
 Visibility Good

Radiation level(s)

↓ Bet Station at Lake Umbagog 1.3 ± 0.9 m/hr, 1 ± 0.9

Operations:

at AITSO 1.2 , 1 ± 5

Counter 200 cpm - boxes left for Tilda
 0800 To pick up rat for release at Olive. Rest of us left by water taxi 0830. Barnes met us at Ursula dock 1000. Had caught 3 rats + mounted them 11, 12, 13
 Ursula to Tilda by Dixie. Bay of Islands concrete blocks + floats on E-W. Boat in bay. Sgt. Baum, Lookout Mtn met us at Ursula - accompanied us to take photos of our activities. Used complex for both land & underwater. Also took shots of plants Palumbo had previously tagged. Set traps at 100', 400', 300' & from 500 W. Bob Rubber boat with outboard + aqualungs. This is a fair method (including altitude) for greatest efficiency. Set traps 800' from 500 E. Took photos of Kalman (calls Tilda) on outer reef in boat Yucca. Photo of Yucca, Kudohicore of Yucca, 2-5'. Olive returned 1415 - 1530 assisted by all-tide conditions. Oliver 1600. Barnes, Palumbo & Olson staying on night at Ursula to make plankton tows + intentional release of rats on Tilda. Held returns 1615. Palumbo phoned in that net tore up in flaring trawling was lost. Lured net #6 C 74 resp. to help with bulle + take to Ursula Tomorrow. Col Smith supper with at dinner that were laid on 11 flight to six islands with 1/2 on each to pick up main

UNIVERSITY OF WASHINGTON

ANDERSON ENGINEERING LABORATORY
1335 1ST AVENUE, WASHINGTON

Locality

Date 9/20/54 (cont.)

Personnel

Wind

Wave

Radiation level(s)

Operations:

Algae, sea urchin, and bottom samples to be taken every meter readings. Plankton to be at 10 meter stations will have to be omitted unless there is considerable delay in schedule.

12/13

UNIVERSITY OF WASHINGTON

DEPARTMENT OF FISHERIES

1000 UNIVERSITY AVENUE

Locality ELMER, VERA, PALMA Date April 11, 1954
 Personnel HEID, BARNS Weather Partly Sunny
PALOMBO Visibility Good

Radiation level(s) Compass 1000 ft

Operations:
 Held met Palombo and Barnes at home for trip to Vera at 8:30. Layed out most of line and 5 line. Placed & marked stakes at 100 ft intervals. ~~1000 ft~~ readings taken w/ June at stakes ~~1000 ft~~ 6 ft water line

| Stake | Closed | Open | Open | Open |
|-----------------|---------|------|------|------|
| | 3ft | 3ft | 3ft | 1ft |
| SE Survey Point | 2.5 m/h | 2.5 | 3.5 | 7.0 |
| 100 SW | 2.5 | 2.5 | 4.5 | 6.0 |
| 200 SW | 2.5 | 2.5 | 4.5 | 8.0 |
| 300 SW | 4.0 | 3.0 | 5.0 | 12.0 |
| 400 SW | 4.5 | 2.5 | 6.5 | 10 |
| 500 SW | 4.5 | 2.5 | 6.0 | 8.5 |
| 600 SW | 4.5 | 2.0 | 7.0 | 17.0 |
| 700 SW | 3.0 | 2.0 | 4.5 | 12.0 |
| 800 SW | 3.0 | 2.5 | 4.5 | 8.5 |
| 900 SW | 3.0 | 2.0 | 4.0 | 3.5 |
| 1000 SW | 3.0 | 2.0 | 4.0 | 6.5 |
| 1100 SW | 2.5 | 2.5 | 5.0 | 7.5 |
| 1200 SW | 2.5 | 2.0 | 4.0 | 7.5 |
| NW Survey pt | 2.0 | 2.0 | 3.0 | 3.5 |

Concrete block + float set at 700 ft from 400 ft on outer reef. Photograph of grass and vegetation taken at 400 NW stake. Observations and photographs taken of fish, algae + corals by all during survey on large coral head at 1100 W. In bottom. Signaling and str. diving were used to locate numbers of fish

Locality /

100 ft. April (Contd.)

Personnel

W. H. ...

W. H. ...

Radiation level(s)

Operations:

Coral clams etc. 2 feet further west, unsuccessfully
 Dredge at 1100 ft. ...
 Two mids ...
 to Elmer via ... brought back soft &
 all other eq. ... except ... traps stored
 in bunker ...
 when a ... that was ... will probably have
 to be replaced with a larger ...

UNIVERSITY OF WASHINGTON
 ALICE ISLANDS FIELD STATION
 PEARL AND HERMES REEF
 PEARL AND HERMES REEF
 WASHINGTON

Locality In Lake, near Heron 11 April 1954
 Personnel Jans, Alice, Leray, Henry, & Bruce 78-88°F
Rakunbo, Olson, & Helmut
W. side of Heron

Radiation level(s) See Below Counting 1680pm

Operations:
 A helicopter flight covering Bruce, Yvonne, Janet, Alice, Leray, & Henry was begun at 1000 hrs. Radiation levels on these islands were as follows. Mr. Helmut using JUNO

Bruce (Near air strip)

| | Center of Island | | | High Tide Line | | |
|-------------|------------------|--------|--------|----------------|--------|--------|
| | Open | Closed | # | Open | Closed | # |
| Bruce | 2 | 2 | Spot | 1.5 | 1.5 | 3ft. |
| | 4 | 2 | 1 inch | 3.5 | 1.5 | 1 inch |
| Yvonne | 6 | 3 | 1 inch | 2 | 2 | |
| (N. End) | 6 | 3 | 1 inch | 3 | 2 | |
| JANET | 7 | 6 | 1 inch | 1.5 | 1.5 | |
| (NEAR DOCK) | 36 | 9 | 1 inch | 3.5 | 5 | |
| Alice | 6 | 6.5 | 1 inch | 5 | 5 | |
| W. End | 22 | 12.5 | 1 inch | 19 | 6 | |
| Leray | 2.5 | 1 | 1 inch | 3.5 | 1 | |
| W. side | 3.5 | 2 | 1 inch | 4.5 | 1 | |
| Henry | 4 | 2 | 1 inch | 1.5 | 1.5 | |
| E Side | 6 | 3 | 1 inch | 1.5 | 1.5 | |

H-19 was put at our disposal for a period of approximately 4 hrs. to make circuit of atoll for measurement of gamma differences as outlined in report of 30 Oct 53-36. Considerations of time required the

UNIVERSITY OF WASHINGTON

OFFICE OF THE DEAN

STATE OF WASHINGTON

2

Locality: _____

APR 11 APR 54 (CONT) _____

Personnel: _____

Radiation level(s): _____

Operations:

omission of plankton for collection at Coral Head Reef.
 Notes taken on the way to my bag on an overlay labeled "Pre-Shot
 Circuit 11154". Barnes took survey meter readings as listed
 above; Olson took soil sample on island + bottom sample on lagoon
 side then helped Palumbo to pull Palumbo + Held covered
 separate areas near shore for algae (Halimeda, Caulerpa,
 Lyngbia mainly) at 50' numbers. As soon as the
 collections were complete it became obvious that extensive
 searching would be required. All persons returned to the
 'capter. (The schedule for it was very tight) follows:
 LV Elmer 1130 Ar Eric 1135 LV 1155, Ar Yvonne 1100
 LV 1135, Ar Paul 1145 LV 1155, Ar Alice 1210 LV 1230,
 Ar LeRoy 1245 (arr.) LV 1300, Ar Henry 1350 LV 1425,
 Ar Elmer 1435. Palumbo had extensive algae collection
 at Mui (Hans) Ar LeRoy collected coral, Alice collected land
 plants for seed. Barnes collected Lyngbia, Halimeda
 Jama, Paul collected Lyngbia at least three above at
 end of the operations. Barnes obtained at Rye for
 sampling. The plants collected at Rye in 1952 are practically
 divided into two main groups, one in poor shape.
 Sunday evening I cleaned up and getting ready for
 Tom cross-sectioned 4 jars of samples.

UNIVERSITY OF WASHINGTON
WATER TISSUES LABORATORY
1900 15TH AVENUE, SEATTLE, WASHINGTON

Locality ~~PARO~~ PARRY Is. Tok Dec 12 1954
Personnel BARNES, HEED, GARDNER, WOOD, ... 90% Cloudy
PAZUMBO ...

Radiation level(s) counts Bkgd. 150/for

Operations:

BARNES checked calibration of survey meters at
Rat Safe. Two were reading, others could not
be checked due to fast moving service. Meter materials
acting up. Goes off under with ... New batteries
will be placed in meters. Held spot for compound re
shipping box to 21. ... of ...
and plants take for ... not good, but
negatives looked excellent. ...
five islands ... by Heed, weighing wet
samples. Also ... by weighing plankton
bags ...
looked ...
the visit and ...
our lab work and field work ...
film of the expedition. Dr. ...
late AM. PM ...
much money was spent, but ... Japanese motorboats
are still available at \$3.25. ...
bought a watch at ...
The far. After ...
numbered ...
picked several species ...
D. ...
- but experienced ...

UNIVERSITY OF WASHINGTON

ALBERT EINSTEIN LABORATORY

107200 WAS 000000

Locality

Date 13 APR 54 (Cont)

Personnel

W. L. ...

W. L. ...

Radiation level(s)

Operations:

At Col W. L. ... (20000) report, at ... Ranglap ...
 They have been ... from Trust Territory ...
 be returned ... eat. They were only ...
 arrangements. ... of love set up ...
 activities ... Tell them ... was ...
 regarding ... told them that we have ...
 as much as ... to help in any way possible ...
 studies which ... emergency basis from ...
 Ranglap. They ... trip to Ranglap in the ...
 specific date ... may participate if we wish.

Locality

11 April 1954 (Kauai)

Personnel

W. S. Hooper

W. S. Hooper

Radiation level(s)

Operations

Algal samples were collected in Crater on ^{west end of} Agua. No land plants or full coral were seen in Crater. Algal were collected here in a pool on the inner rim of Crater reef. (2) Daring Small Murchisonia for Lepturus was tagged at east end of Crater. On Crater Murchisonia and Lepturus samples were large. Samples taken, a few small plants of Lepturus at east end, the closest other plant seen was Lepturus at Crater.

Dr. Lagon found Holmesia impura was collected. These had black spots on corals and dead joints intermingled with living corals. (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) (180) (181) (182) (183) (184) (185) (186) 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Ira ...

4' square ...

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 Department of Zoology
 UNIVERSITY OF CALIFORNIA

Locality

14 002, (cont)

Personnel

V. ...
 A. ...

Radiation level(s)

Operations

the same as at site 1, except that most water to
 rise 100 ft., especially from + T. crassa
 well. ... sample from
 well. ...

... of water.

...
 Elms ...
 ...
 at 1200 p.m. ...

Near Fairy + ... there were ... islands.
 the MISS CENTER. Specimens were collected.

AT Case ...
 were AT Inset 4 ... FAT, but
 HARD to trap. ...
 on North ... may be a few AT
 also.

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Department of Zoology
127th St. Toronto, Ont.

Locality 1000 ft. near sea (cont)
Personnel
.....
.....

Radiation level(s)

Operations

Specimens were deep frozen (frozen in 2nd year last night), got them up and then filled, check on getting water pump (with 1000 ft. depth in plumage) - it was very good and it had appeared to be good. We had a rough day but more needs to be done. Got Brown, AMU, collect. to see what he had at sea. We were ready to see that. Many of the specimens had been taken and some were lost. We had to get to work to get some more specimens.

octopus collecting in the lot was lost because it was ice -

Locality Forest, TREST, 2000 ft

Personnel Paul, Harry, H+N 74 90°E Sunny
H+N Good

Radiation level(s) In background

Operations: Control No. JF 757B

Soil samples collected from forest floor, grass
Pl. samples collected from forest floor, grass, shrubs, etc. H+N visited
US RE, Government, AEC and H+N astro
operation and support in this Lab.

PAUSE in work, clean weighed plastic bags,
dissected & analyzed from samples from Arambica.
Doing ~~some~~ samples on rough igneous rocks
of a granite in Pella, also some and some
run to Pella, also some rocks in that region.

Approximate number of samples were found in
Some samples were processed for Pella Lab
Procedure for H^3 in samples for breaching are
now held in the lab, one tank had
faulty pipe, completely replaced. Evidence is to

Read and copy log and include pertinent notes
if so desired. Pella is where slides of Pella
Trip - see below. List of papers borrowed
from LMC. Pella is in the south, T Z I

EMBERS left as case for Janet, collected
1 male RAT = 17 and released at Pella. Prepared
Tilpods in plate for H^3 forwarding to
lab, also some samples for H^3 in Pella

with 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
R Paul
CMB

Laboratory

1418965

Log

and Operations Log

Eniwetok Atoll

March 12, 1954 - April 22, 54

Vol. I

UNIVERSITY OF WASHINGTON
ALBUQUERQUE LABORATORY
STATEMENT

Locality Perry 12 Mar 54
Personnel Palumbo, Mohl, Giesler
Associations

Radiation level(s) None detected (see notes, pg 12)

Operations
Time spent today, no real entries are entered
on these notes

Meaning of some of the material from yesterday's
trip. Major check on damaged equipment with
Jack Livingston. Supply of all report ODS through
proper channels. Finally located the 7 boxes shipped
from Seattle. They had been sitting outside in
a supply yard. Have a talk with Maj. Steelet
a Mr. Secombe had the boxes brought down
to the lab in a truck. They got this afternoon.
Everything in good shape, except having been
more or less wet, except ratonone. Three of
the six boxes are good.

John and Bob Huffer, from
from Seattle, after about a week. They will teach
us things about the equipment. Sunday (they have been
instructed to report on the equipment to be used.)

Lab. Sample 5, 10, 11, weighs 126 gms,
at 12 gms of dirt to be used.

Canis plant and the specimens collected thru
3/11/54. Present one for comparison and also for
future autoradiographs. One of the specimens on
the camp site. Most of the specimens are in the clothes
were only a few but they are being kept for use as
for in the future. The material is in the lab.
ations etc.

RIS

UNIVERSITY OF WASHINGTON

APPLIED FISHERIES LABORATORY

SEATTLE, WASHINGTON

Locality PARRIS TO ENWETAK Date 5 MARCH 1954
Personnel HELD, PALUMBO Weather intermittent clouds - wind
Water conditions white caps
Min. Temp 76° F Max. Temp 74° F (Observed)

Radiation level(s) NONE CHECKED
Operations: ACRIN

Called R.E. photos not subject in plants (MAYNARD'S),
REPAIR 6 FOUNTAINS WHICH DO NOT SET PROPERLY; INSTALATA
OF 2 DEEP FREEZERS, DRYING OVEN, AND MUFFLES OVEN,
LOWERING TO PORCH TO PROTECT WATER TABLES FROM
SUN. Took 3 photographs at south end (min) with
speed graph. Profile of south end of island including
noted that has saw in hole in ground of 5' height
size with water flat behind the hole. Noted 1/2 mile
this same thing 2 weeks ago - however on 27th 1st day out
we caught a few small fish of all kinds -
The afternoon spent spearfishing for 2 hours with no success.
ACF. Trawl heavy and mud buried. Tip str. on ball of coral. No
aquatics saved. Total catch 1/2" goat fish and heavy tip by
Palumbo 6 small (2") things by Held and Lynet. Trawl heavy
3 kg. and small fish alive. No tag mail to counter sea water from the pier
system. Trawl about one half hour. Have been taking
sea water for 10 days in hope that toxicity does not
particulate water standing in pipes. This seems doubtful. Brought back
one live coral fragment and 10 tag mail to counter sea water
with 1/2" coral by bucket.

Plans to take film back to Seattle. Tide tables for Marshall
Islands Enwetak first row since we left Seattle Feb 24th.
Small photos of Am. Islands and other islands will be ready
in about 3 days
Plumbing has been repaired. ^{has been} ^{had} ^{been} ^{here} ^{to} ^{check} ^{on} ^{work}
and R. Palumbo

UNIVERSITY OF WASHINGTON

APPLIED PHYSICS DEPARTMENT

SEATTLE, WASH.

Locality PARRY Island, Erik A. IsletDate: 8 March 1954Personnel HEID, PH - SCWeather AM Sunny, Cloudy PM cloudyAir Temp 73-86 F

Water Conditions

Radiation level(s) Routine Lab checks

Operations:

Electricians finished installations in the reception of pyrometer which is giving them at Finerty. Low tide. We went out to edge of reef behind lab. Noted many other growths of Asparagopsis, Halimeda and Halysaeta, and Halysaeta. Chopped out a few pieces of Halysaeta & Halysaeta on the surf. Saw very few fish out there. Left AM 12:30. Dr. Haight and

Maj. Guthrie looking for Hallett and to see how we were setup. Said Dr. Zinner would be here about March 21st.

Dr. Haight, Pearce and Major C Barnes arrived late today approx 2:00 with gear and lots of enthusiasm. Swapped information all around for 1 1/2 hrs. Then went swimming and Aqualunging under supervision of Bob Smith of Scripps. Had filled aqualung tanks at CMR and the Hallett for refills. Filled to 2250 psi.

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APPLIED FISHERIES CENTER
DAVIS, CALIF.

Locality Penny Id. E. & Atoll March 1954
Personnel Donaldson, Bruce Olson, Sunny PM - Sunny Clouds
HELD, P. 1000 33-37°F

Radiation level(s) Routine at checks (1954)

Operations:

Lab cleaned up and material put away -
Olson Barnes Palumbo out on reef behind
lab. Tried following sand channel with net -
Rotenone did not wet, plug and waves
moved it away too fast. Collected more
Asparagopsis sample # 4 for assay at home
Lab. FF from 5:00 pm away Lab - and

Swimming party at small beach Penny Island.
Air sampler # 1 assembled and started
in spot directly east of laboratory approximately
8 feet above water and 100 feet from shore
at high tide. Sampler started at 1400 hours.

Traced path of water mass - scale of 1" = 100'
from H+M chart No. 2200. Path originally traced
from 3.33.05.

Locality PARRY Island 20 MAR 54
 Personnel Held, Palumbo, Barnes, Fair - windy 76° - 88°
Olson, D. Holdson

Radiation levels

Operations:

Traced above map of Parry Island H+M Sheet No. FS-6003, and Parry Island H+M Sheet No. 2249-P-17. Both are scaled at 1" = 100'. Returned original copies of maps to U.S.G.

Low tide at 10:30 AM. Collected samples of fish from reef and shallow area near the beach. Used about one-half pound of crab bait and obtained 46 fish from the reef forms. The fish were used for study of classification and tagged males.

But traps were hauled and made ready for use.

The first sample from the air filter unit provided by U.S.G. was mailed to U.S.G.

Ed marked near the Robot camera and put out the case to protect it from water.

Out was generated "Field Day" following U.S.G. practice.

Locality: Parry Island March 54 (Sunday)
 Personne: Barnes, Hall, Palumbo, Raines - Wind 77°F - 86°F
 Olson + Donaldson

Radiation level(s)

Operations

Sunday routine - a day to do
 the things that we do not get done
 the rest of the week.

Repacked the shipping boxes.
 The large crate used to ship out
 the glass boat was used for
 storing the empty boxes and the
 board used as floor. All the boxes
 were saved except the cardboard
 frames that covered the refrigerators.
 Repacking should be done with
 care to insure the reassembly of
 the boxes to fit each item.

In the afternoon we all went
 to Eniwetok Island to visit the PX -
 no fuel there. Base was closed.

Final considered as to
 possibility of a Food Survey
 of certain island groups.
 Conditions for survey were
 outlined to the

Z.P.D.

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APPLIED PHYSICS LABORATORY

SEALED TO BE OPENED BY THE UNIVERSITY OF WASHINGTON

Locality Parr Island 22 Mar 1954
 Personnel Barry, Hilda, Burns - Wind 76°F - 88°F
 Palumbo, Olson Condition High waves + surf
 + Donaldson
 Radiation level(s) Alice - shield 20 mr/hr, open 20 mr/hr

Operations:

Load on the boat - 200 lbs Baum, least 110 lbs
 of total collected for 200 lbs H-11 delayed until 1300.
 finished breakfast, shower, 100°F plus sun
 and wind. Helicopters around
 atoll. 1400 leave. Stopped at Alice for
 mass collection. Made plant collection at Alice.
 4 Boxes stored on boat today. Took photographs
 of damaged and preserved plants on Alice and
 reflects from the boat (Camera Survey
 meter reads at Baseline (Alice) - Beta-gamma
 meter. 1 hr. ground on island. Shield closed
 (r) - Smaller, shielded (5 r) 20 mr/hr
 Left roll film for 1 hr to be developed.
 Evening pressed plants and prepared plant samples
 for the rat counting. R.P.D.

During stop at Vava 2 rats were
 seen. It is felt that numbers of rats
 must be present on the island if
 two were observed during daylight
 hours.

Some rat droppings were seen at
 Alice but no rats were observed. It
 seems improbable that rats could
 survive the high radiation levels
 that have existed during the past year.

R.P.D.

Locality Parry Island 23 Mar 1954
 Personnel Barnes, Held Sunny w/ wind
 Palumbo, Olson 1000 ft. on Parry
 Donaldson
 Radiation level(s) 2000 R/hr. (at Parry) (at sample 1029)

Operations:

OPENED and stowed 4 boxes. Returned
 packing slip to Livingston, packed out chairs, office
 supplies, film, etc. on Atoll trip of 3/22/54
 Spoiled development film to Lab. Reef party
 at 1330 hours station, etc. coming in;

Robot arm collected water in Held. Good
 Result: 1000 plus X. 6ft depth.

Sunny day, water slightly muddy - Develop 16mm
 Prepared for trip to collect P. } Microdol

equipment was placed on board the USS
 Nicholds. D.E. H. trip to Bikini
 water subject to board the ship
 tomorrow.

At 1330 hours an attempt was
 made to collect from the reef in front
 of the laboratory. A high surf was running
 that disrupted the operation before it could
 become effective.

UNIVERSITY OF WASHINGTON
APPLIED SCIENCE LABORATORY
SEATTLE, WASH.

Locality Perry Island, Bering Sea 24 March 1954

Personnel Banner, Ed William, John
Olson, Charles William, John
Conslan

Radiation level(s)

Operations

I set out in p.m. of Feb (5) accompanied by two other fishermen, the Alamas, checked out at Perry Island and left by "M" boat to Barotok Island to board the plane a C47.

Berlin has really been worked over and would seem to recognize the place as the site for crossroads even though the means have been moved. The least change are Berlin and Enge. The entire section chain (over) has been made into an air strip and shot site. Buildings on Tare have been really messed up by the blast of bombs.

When we returned us from Tare to the deck of the bar and where we had lunch. The medical officer of the Plover showed us 3 of the 5 sailors burned by particles from the fall out. The burns were all about the waist band. Most of the burns were about the size of a match, raised and deeply penetrated. The sailors complained about the burns taking a rather long time. The burns were well along toward healing.

We left the Plover DDF 449 by "M" boat.

In the evening the two fishermen went to the Estar and conferred with Mr. Jyle.

UNIVERSITY OF WASHINGTON
APPLIED PHYSICS DIVISION
RESEARCH REPORT

Locality Bikini Atoll
Date 25 March 1954
Personnel Barnes, Fred
Palumbo, Alan
Dorland

Radiation level(s)

Operations:

Operations were delayed 24 hours while
there were a number of parties of natives
and representatives of the Trust Territory to Pongok
tomorrow so that they might pick up their
enimals and see that we didn't carry
away the shells.

Our other party visited the Esters
to attempt to get some of the traps
I visited with the workers.

In addition to the crew and Dr. T. Shipman,
we Thomas and what R. Schavone, and
a photographer. We had to head the ship
to the anchorage about 10 sea about
6:30 P.M. weather was very good and
a very beautiful sunset that we watched
with great pleasure.

Paul and I made the mistake of
going to the kitchen in the woodroom.
The kitchen is the main part of the move,
the kitchen was very messy with many black
cups and plates. The rest of the
P.D.F. in the open area. Anyway we
left the kitchen area.

Locality Pongelap Atoll 26 March '54
 Personnel Gamm W. H. M. Day and day
Palmer Whom relations about calm
morning

Radiation level(s)

Operations

land at the southern passage into Pongelap
 were down. Several boats with the ship
 Pat Schwood and other crew were put over to
 aid the radio. The natives were to receive their
 mammals and birds. Readings. All natives
 were moved out of the way of road to Kwaja
 at 5:30 pm. The natives were put aboard
 a motor boat and left for the northern
 islands. The boat was at Kapardj
 when we made landfall and Ralph collected
 plants.

Readings were taken with Geiger # 29

| Location | Shield | Count 2' | Count 1" |
|---------------------|--------|----------|---------------|
| 1. Inter tide zone | closed | 200 c/hr | |
| | open | 100 c/hr | |
| 2. High tide zone | closed | 150 c/hr | 500 c/hr |
| | open | 100 c/hr | 100 c/hr |
| 3. Open forest area | closed | 50 c/hr | 370 c/hr |
| on island | open | 100 c/hr | 400 c/hr |
| 4. Open grass area | closed | 100 c/hr | 6" = 280 c/hr |
| on island | open | 100 c/hr | 1" = 700 c/hr |
| 5. In porous | closed | 100 c/hr | 600 c/hr |
| wood | open | 100 c/hr | 1.5 v |
| 6. Bush on | closed | 100 c/hr | 29 c/hr |
| island | open | 100 c/hr | 400 c/hr |

next page

Locality: Pongelak Atoll
 Date: Mar 5-4 (cont.)
 Personnel: [blank]
 Observations: [blank]

Radiation level(s):

Operations:

| Loc. # | Time | Height 3' | Height 1" |
|--|--------|-----------|-----------|
| 7. Beach above high tide line north side of island | cloudy | 180 m | 220 m |
| | open | 300 m | 600 m |
| 8. East side of island above high tide line | cloudy | 200 m | 220 m |
| | open | 350 m | 700 m |

No coconuts were available on Kapardi so proceeded to Kavelle after setting six (6) rat traps & 100 m² pit placed in 500 m² sand from Kapardi.

On Kavelle Island collections were made of plants along intertidal zone and fish. Collecting was good for getting up left rats.

Radiation readings: at a suno #39.

Location: 5/14/68 Height 3' Height 1"

Kavelle I

| | | | |
|---|--------|-------|-------|
| 1. Beach zone | cloudy | 43 m | 30 m |
| intertidal zone | open | 90 m | 350 m |
| 2. Beach sand at high tide line | cloudy | 140 m | 150 m |
| | open | 200 m | 350 m |
| 3. Edge of beach line on island west side | cloudy | 230 m | 370 m |
| | open | 500 | 1.4 r |
| 4. Open area - station | open | 500 | 412 m |
| | open | 500 | 1.7 r |
| Porter Island | | | |

Locality Rongelap Atoll Station no. 54 (cont)

Personnel _____

Radiation level(s) _____

Operations: _____

| <u>Location</u> | <u>Station</u> | <u>Height 3'</u> | <u>Height 1"</u> |
|------------------------|----------------|------------------|------------------|
| 5 Coconut Grove | _____ | 450 mR | 480 mR |
| Lagoon side of island | _____ | 370 mR | 1.5 r |
| Edge of trees | _____ | _____ | 2.0 r |
| Lee side of trees | _____ | _____ | 1.5 r |
| Windward side of trees | _____ | _____ | 2.8 r |

On the evening we returned to Rongelap island to pick up trucks so the D.D.F. had been ordered to regain the rest of the fleet at position where ~~some~~ Readings were made. The instrument loaned to us by Dr. Schlemmer & his instrument had no channel is recording is composed with the crew cloud is instrument and 300 mi to 500 mi over the island or about the land as is shown

UNIVERSITY OF WASHINGTON

APPLIED FISHERIES RESEARCH
BIOLOGICAL LABORATORY

Locality Bikini Atoll, Western Pacific 27 Nov 1954

Personnel Barnes, Field Officer Fair, plus clouds
Palomares, Observer
Lorenson

Radiation level(s)

Operations:

During the night the U.D.F. found the rest of the fleet at Bikini 32 ± miles S.E. to the east with sunset time was set for 6:30 AM and every thing went on schedule to the south.

Major visual differences between this shot and previous ones recorded was the predominance of purple, blue color. The usual violet blue was reduced and a blue purple iridescence color was found in the massive almost pure white clouds.

The ground level was much sharper than those previously experienced with the front secondary report.

The iridescence all out over appeared very early and at 2:15 P.M. the main cloud bank began to rise up towards the side before joining the main bank at 2:30 P.M. for the main report to be made.

UNIVERSITY OF WASHINGTON
ARTHUR H. HAYS CURIE
LEAST SQUARES

Locality Perry Island Northwest 28 May 1954
Personnel Barnes, Field 29-720 - 1 day for days cur
Palumbo Wilson 29-720 - 1 day for days cur
Donaldson

Radiation level(s) 3-4 mCi on Perry Island

Operations:

Arrived back at Perry Island moorage
about 2:30 PM. The animal and equipment
inclusions were taken from La'Pud's Island
was unloaded into the boat then
by truck to the land or to Rad-Safe
Film badges were turned into Rad-Safe
as were the animal cots clothing.

Protein work and glass falls were
packed and ready for shipment.

Dissections were started to prepare
material and tissues for return to the
laboratory for final staining and counting.
It was decided because of the press for
time to only count and freeze the tissues
for future use. Can set as originally
scheduled. This was done to save
as much time as possible for getting
set up at sites wa and Olive.

Equipment was needed for
starting the counting of the two sites

x

UNIVERSITY OF ALABAMA
APPLIED PHYSICS CENTER
TUMSCHEWITZ HALL
TUSCALOOSA, ALA. 35489

Locality Perry Sound March 54
Personnel Burner Old
Palumbo Ward Calms Wright Wright
Wardson

Radiation level(s) Background of the island ranged from 20 cpm to 626 cpm.

Operations: Collection of tissue samples and working up the
tissues to be analyzed. All hands packaged
tissues most of the day. Some of us for
into the night. The number of samples collected
from the 10 traps was about 200-
plates x

Work was intricate getting organized for
the survey of the water. Traps for land and
water monitors were placed through T-6
We also requested that 2 Concrete Blocks
each a cubic foot be constructed with
a loop on top for attaching a line x
at 300 yds from around of the island
is over a day. The traps and com sets
about 100 yds from the island
The counter in the building has been
running 200 cpm. They jumped to 626 cpm.
The count rate was measured with
the sub-scale of the T-3 m v with
the second channel of the scale x
The same counter was used in the field
was shown to be accurate. The
the radiation level was very high.

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ALPHEUS FISHERIE LABORATORY

SALMON RESEARCH

Locality Perry Island - Cassadon Island 30 Mar 1954

Personnel Barnes, Ed Air Temp 76°F - 90°F

Palmoner, Olson Observations good

Donaldson

Radiation level(s) 1. color water and cloud cleared was 218 Bldg

Operations:

Tented west side of Cassadon Island (Vera) left by water taxi for Urosula from where we took in 75' boat back to Vera.

Collections were made of land plants, fish invertebrates and algae. The traps were set for water and left overnight to be checked tomorrow. One of samples may be obtained.

Made a sketch of the island and marked important land marks. The sketch was done on reading at the high tide line on a scale of 200' equal to 1" across island. In making the survey we were made of the original benchmark. It is enough good that has a triangle intercept of the island was decided as not for our needs for a study zone. This comes from our original idea of a transect but will serve very well for our needs. Radiation from the shot site can be measured so that our subsequent data on radiation distances from shot site *
 Lot 3.

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APPLIED FISHERIES LABORATORY

SMITHSONIAN INSTITUTION

Locality Parry Island - Casuarina trees Date 31 Mar 54
 Personnel Bornes, Field Air Temp 72° F - 88° F
Palumbo, Wilson Sea Conditions fairly calm
Donaldson

Radiation level(s) Blank ground count 21-800, outside 10 m r at
2000 ft height.

Operations

Major activities involved working up the tissue collected yesterday at Casuarina (Uera). Tissues were secured from the animals and given time to expedite the preparation of materials to ship back to U.S.A.

Bornes, Field returned to Uera to collect rats from traps set the day before. Seven rats were caught in ten traps. Most of those captured were from the grassy area near middle of island. Some of the rats were suspended by samples and two were marked by removal of the left hind outside toe and the right front outside toe. The marked rats were pit-tagged.

Mr James E. P. ... Director, Office of Test Operations, ... visited 218 Bldg to look over the facilities and discuss operational needs for the next year. The requirements for Eniwetok base and Bikini for transportation were sent Mr P. W. Spain, Field Manager, Eniwetok Field Office, Albuquerque, New Mexico as memo 854 on 31 Mar 1954.

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APPLIED FISHERIES LABORATORY

SEATTLE, WASHINGTON

Locality Perry Island - Anson (Alaska) April 1, 1954

Personnel Barnes, Keld Weather 72°F - 88°F

Palumbo, Olen Water conditions fairly calm

Donaldson

Radiation level(s) Background 577-550 outside 3' shield cloud 8m

Operations:

Trip to Anson (Perry) island to collect materials for beta studies of residual radiation and to establish the island to establish land markers and put in the transects.

The survey of the island and establishing of the transects was accomplished in about 2 1/2 hours time. The job normally would have required at least two days - but very good luck and group effort it was accomplished in a minimum of time. Two transects were established intersecting the island at its approximate middle and forming a large 'X' shape of the island into four portions. These were drawn into 100' transects at 100' intervals radiating out from the main survey point.

Collecting was not complete for any of the groups except first tide was at flood when we started to collect out yard samples. If we had stayed longer we were very successful over the island.

Dr. Garrett - Dr. Blake - Dr. ... - last with us and did good work with survey

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APPLIED FISHERIES LABORATORY
SEATTLE WASHINGTON

Locality Perry Point

Date April 2, 1954

Personnel Peerson, H. L.

Weather 87 F - 100 F

Peerson, H. L.

Wind light SW

Peerson

Radiation level(s) _____

Operations:

Mixed up material from yesterday's collection at Perry Point and prepared them for shipment to Z.I.

Held out Peerson returned to Olive to pick up rats and get other additional investigations. No rats were found in the traps so they were moved to Corvella and rest.

Donaldson conferred with Dr. Jones and Col. Macpherson about Peerson's request to sample the area near populations of this area. It was agreed that such a program was beyond their present budget and staff could undertake.

Other approaches would be worked out. Dr. P. L. Ernest visited the laboratory and asked for a statement of accomplishments to date.

Dr. Thomas Shipman visited the laboratory. Shipman said the condition of the Knaplake rat's was just so-so. He and staff looked at photos of various cases of Knaplake. He said a few more visited the laboratory this afternoon. Donaldson packed in truck.

Locality: Perry, Enderby Date: 4 April 54
 Personnel: Barnes, Palomares, Choy Weather: 52-67°F
Hull Wave: mod. swell

Radiation level(s) Count 272

Operations:

Sunday 4 April 1954 - Perry base camp
 Spent the day setting out traps and traps 1300
 Barnes + Palomares left for sunset (with cable to get to
 set out traps + photograph plants. Twelve rats
 were observed mostly in and around old
 humpers. Most of the rats were gray in color
 indicating a new species. It was also
 noted the tendencies of these rats to den
 as indicated by house ~~holes~~ holes in
 the ground with several entrances.
 Fourteen traps were set. There were very
 few birds on the island and none taken
 Six fairy terns were seen. Plant specimens
 abnormalities - bones + collected Ipomoea tuba, tumorous
 proliferation of buds - several - stems 1.5 x 1/2 from black house
Sida filix - yellow + mosaic + mottled leaves and four codon
 of the plants; Fraxinus cynosuroides (20 kg) reddish purple
 chlorosis of leaves and mowing - roots are normal; three
 plants photographed in color; one specimen of purple plant of
Ipomoea tuba and a 1/4 specimen of blue mottled plant
 w/ extreme yellow of the ground + leaves. These plants
 will be saved, preserved, plates taken, and micrographs
 taken.

Locality Elmer, Janet, Id. Date 5 APR 54

Personnel Palumbo, Barre, Olson Weather 65°C

Held Food Water Good

Radiation level(s) Janet 3' 19
Van (SE-W) 2 2
Elmer B... 7

Operations:

Rat bait arrived from Lab 21... and Held to Engsch
to collect rats... Held met
Palumbo & Olson at Van for further mapping and laying
of mangrove transect. EW lagoon ~~plotted~~ transect plotted by
Olson and various markers/metal plants placed by Held
and Palumbo at 100 ft, 400 ft and 300 ft. Stakes placed
at 100E, 200E, 300E, 400E and ^{at} 500E. Stakes were set on
beach pavement at 100 feet. ~~...~~ made as per collection
for post shot on outer reef. Collected 10 pieces at 3 locations,
near shore, 1/2 way out to ridge and on ridge. Palumbo &
Held w/ assistance of Olson (camping) w/ sheath knife and
leg pants 2 black jipped shavers 1/2 - 3/4 in. ~~...~~
for fish tissue analysis. Shells of Shanks and
Shank hunters taken. Collected Agropyris from peelings
of Urula (Rapa) per decomposition ~~...~~ w/ had found
at P Army Id.

Secret tax Map... USSEC... JF-7...
File No. P0204162 RECD... F-6790 (Secret) Rec'd.
JF-7012 (Cont) Rec'd.
Dr. Emery...

Locality Tilda Olive Pt., II
 Personnel Olson, Barnes, Held and
Palumbo

Date 7 April 1954
 Weather 78-90°F - Rained heavily
 Water Good

Radiation level(s) Con la Bg 3+2

Operations:

Barnes picked up boat Tramped at Tilda and released a netting of ~~netting~~ ^{netting} after marking with no's 2-7. ~~Netting~~ left on schedule but heavy rain obscured any view of the ^A island. Flash light seen. No audible reports. Sent fax to Ames on 4/4, requesting wire to Maj. Stewart, J-4 authorizing shipment of materials from Oakland to Seattle. Finished packing ^{box} 1st shipment back to Lab. obtained 40-200 lb. ^{air} tanks from Jack Livingston (H&M) in loan basket - hand receipt: for aqualung storage tanks. Mr. Livingston visited lab. Olson processed 2 sharks caught at Vera on April 5. Held ~~dissected~~ ^{CT 9m} ~~dissected~~ ^{ment} on mottle, exchanged 7 ft can for 6 ft can w/ suitable can locks for skiff ^{fishery} Palumbo fished working plant sampler for Engeli and Vera mounted and ready for can envelope stage. Measured rain fall for 1420-1440 0.25" fell in 0.75" hr. Heaviest rain since we've been here to date. Ispis Sample 17A (Asparagopsis) decay shows 3 half lives of approximately 8 days each. Could be Iodine, similar to rat thyroid count found by Barnes - Umula Asparagopsis from plantings counted 800+ c/p/g and 700 c/p/g for duplicate samples. D. ^{is} being run on one of these plates. 2 plates, specimens 23 & 24, from Engeli dissected.

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APPLIED FISHERIES LABORATORY
SEATTLE, WASHINGTONLocality EIMAR, VERADate 2 Apr 54Personnel Barnes, Held
PalumboWeather 72-82° F SunnyWater conditions GoodRadiation level(s) Count B, 100 fpmOperations: Sgt. Dave Smith took photo on Vesule Deck, 4x5 Ektachrome.

Barnes picked up 3 rats at Telda marked 8, 9, & 10, and released at alive. One rat caught at the air dispatcher tent was grey with a few dorsal brown hairs - longer snout than usual with a probable fatty tumor on the belly.

Photographed this freak, took Pathology sections and Radiation Samples. (Spec. No 25). Lab personnel

and Mr. Hutter of Snuggs took trip to Urusula via taxi and then to area via 7-man rubber raft pushed by 5 1/2 HP motor. Submergence worked very well. Olson

and Palumbo photographed all tagged land plants on color. Hutter, Barnes and Held used and marked concrete blocks in lagoon transect. Olson, Barnes and Hutter

made fish goni collection area. Palumbo & Held

took underwater photographs of coral and algae + made maps of local areas on acetate sheets. Aqualungs were used and assisted greatly in this task. Short trips into channel between ~~Urusula~~^{Vera} and Wilma netted 2 helmet shells, several large spider shells and some smaller ones - some large ones shells.

The vegetation in the area was restricted to Halimeda stylosa and Enteromorpha like algae. Saw many fish including tuna, damselfish, surgeonfish, butterflyfish, surgeonfish, parrot, a 5 foot moray eel, and many others. The current was not too bad and depth of water ranged from 3 feet to 30 feet at low tide. Saw many giant clams, some black sea urchins, and lots of

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APPLIED FISHERIES LABORATORY

SEATTLE, WASHINGTON

Locality _____

Date

FRI MOR (CONT.)

Personnel _____

Weather _____

Water temperature _____

Radiation level(s) _____

Operations:

While sketching coral head at 300'W in lagoon at Vera observed small pipefish ^(about 4" long) several minutes. Was rapidly feeding on red algae (pink) which was growing on dead coral. Fish gave impression of forgetting to hold on with tail only to be swept away never more than a foot, by current. Would then swim back to approximately original position. Took photo shot at about 13" although camera set for 4' fll. Parrot fish were numerous coming by in schools of 5-30. Most were greyish a few were green. Some schools mixed together. A Humuhumu stayed in the general area, rarely out of sight when I looked for him for about 40 min. While counting sea cucumbers along the transect ^{Between 300'W + shore} a two pairs of small white fish (3-5") were seen at the entrance of small holes in the white sand. Many other fish seen from time to time including minute (less than 1/2") damselfish ^{1/2" descent blue} hovering between coral branches, but the Humu + the small white fish were the only ones that seemed to restrict themselves to an area of a few dozen square feet.

Tonight discussed trips to Olive + Vera Friday + Sat + H-19 flight to six islands for algae + sea cucumbers

Got two 4x5 film packs Super-XX (D-1072, D-1073) from Tom (S). Coral Monograph sent by Maria Chase ^{arrived.}

Aqua-lung tanks were filled during shift at CMR.

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APPLIED FISHERIES LABORATORY
SEATTLE, WASHINGTON

Locality PARRY, AITSU

Date APR 54

Personnel PALUMBO, BARNES, OLSON,
HELD

Weather 78-92°F cloudy w/occasional
rain until 1100 at
Aitsu
Water Temp Good

Radiation level(s)

↓ Beaker #1 x 1.6 M. Sec. 100-23-0.9 mpm, 1"-0.9
100-23-1.2, 1"-5

Operations:

Counter OKg 200 cpm Barnes left for Tilda
0800 To pick up rats for release at Olive. Rest of us left by
water taxi 0830. Barnes met us at Ursula dock 1000.
Had caught 3 rats + marked them 11, 12, 13
Ursula to Tilda by DUKW. Dredging three concrete blocks +
floats on E-W transport in lagoon enroute. Sgt. Baum,
Lookout Mtn met us at Ursula + accompanied us to take
photos of our activities. Used Rolliflex for both land +
underwater. Also took shots of weed plants Palumbo had
previously tagged. Set biomass at 800', 400', 300', +
from 500 W. Used Robber boat with outboard + aqualungs.
This is a four man job (including man at 91' dade) for greatest
efficiency. Set biomass float at 800' from
500 E. Took photo of Kodachrome (Held + Palumbo) on outer
reef in boat passage. Photo # 16 1/100, Kodachrome f 8
1/100, 2.5". Olson packed for run 1415-1530 assisted
by all-tide concrete pieces. Left Olive 1600. Barnes,
Palumbo + Olson staying overnight at Ursula to make
plankton tows + retrieval of rats on Tilda.
Held returned Parry by 4:15 1700. Palumbo phoned in that
net tare off ring during towing was lost. Laced net
#6 C 74 resps to help meeting of billie + take to Ursula
Tomorrow. H. Col. Smith informed Held at dinner that we
are laid on 4:00 sun 11 APR for H-17 flight to SIX
islands with approx 1/2 hr stops on each to pick up
more

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APPLIED FISHERIES LABORATORY

SEATTLE, WASHINGTON

Locality.....

Personnel.....

Radiation level(s).....

Operations:

Date 9 APR 54 (Cont.)

Weather.....

Wire.....

Algae, sea cucumber, bottom samples, tide survey meter readings. Plankton tow at these stations will have to be omitted unless there is considerable delay in schedule.

3

11:12 '13

11:10

323

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APPLIED FISHERIES LABORATORY

SEASIDE, WASHINGTON

Locality ELMER, VERA Date 15 April, 1954
 Personnel HEID, BARNES Weather 71-75°F Sunny
PALUMBO Water Good

Radiation level(s) Counter Bkgd 5.1 hr

Operations:
 Held met Palumbo, Barnes & Heid for trip to Vera at 8:30. Lines transect along NW-SE line. Placed & marked stakes at 100 ft intervals. Made readings taken w/ Jims at stakes ~~SE Survey point~~ - Readings 6 ft west a line

| Stake | closed | head | Open | Open |
|-----------------|---------|------|------|------|
| SE Survey point | 3 ft | | 3 ft | 7.0 |
| 100 SW | 2.5 w/h | 2.5 | 3.5 | 7.0 |
| 200 SW | 2.5 | 2.5 | 4.5 | 6.0 |
| 300 SW | 2.5 | 0 | 4.5 | 8.0 |
| 400 SW | 4.0 | 0 | 5.0 | 12.0 |
| 500 SW | 4.5 | 4.5 | 6.5 | 10 |
| 600 SW | 4.5 | 0 | 6.0 | 8.5 |
| 700 SW | 4.5 | 0 | 7.0 | 14.0 |
| 800 SW | 3.0 | 0 | 4.5 | 12.0 |
| 900 SW | 3.0 | 3.5 | 4.5 | 8.5 |
| 1000 SW | 3.0 | 0 | 4.0 | 3.5 |
| 1100 SW | 3.0 | 3.0 | 4.0 | 6.5 |
| 1200 SW | 3.5 | 3.5 | 5.0 | 7.5 |
| NW Survey pt | 2.0 | 2.0 | 4.0 | 7.5 |
| | 2.0 | 2.0 | 3.0 | 3.5 |

Concave block + float set at 700 ft from 400 E on outer reef. Photograph of grass and vegetation taken at 400 NW stake. Observations and photographs taken of fish, algae & invertebrates by subgroups on large coral head at 1100 W in various Agardhiopsis and Styrodium were both used for later numbers of fish

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APPLIED FISHERIES LABORATORY

SEATTLE, WASHINGTON

Locality I _____

Date 11 April (Contd.)

Personnel _____

Weather _____

Water _____

Radiation level(s) _____

Operations:

Coral, clams etc. 3 fish were netted, unsuccessfully
 Dredge at 1100h depth 17 feet. The dredge was
 towed in ... out. Returned
 to Elmer ... brought back raft &
 all other equipment except ... traps stored
 in bunker on ... Strong current in outer reef
 where a concrete block was set will probably have
 to be replaced with a log ...

UNIVERSITY OF WASHINGTON
 SCHOOL OF FISHERIES LABORATORY
 BEACON HILL, WASHINGTON

Locality: in Island, Bruce, Yvonne Date: 11 April 1954
 Personnel: Janet, Alice, Leroy, Henry, Palmer, Olson, Barnes, Held Weather: Clear 78-88°F
 Water: generally smooth

Radiation level(s): See Below Count rate: 168 cpm

Operations:

A helicopter flight covering Bruce, Yvonne, Janet, Alice, Leroy, & Henry was begun at 1000 hrs. Radiation levels on these islands were as follows: Mr. H. using JUNO

Bruce (Near air strip)

| | Center of Island | | | High Tide Line | | |
|-------------|------------------|--------|--------|----------------|--------|--------|
| | Open | Closed | # | Open | Closed | # |
| | 2 | 2 | 3 ft | 1.5 | 1.5 | 3 ft. |
| | 4 | 2 | 1 inch | 3.5 | 1.5 | 1 inch |
| Yvonne | 6 | 3 | 5 ft | 2 | 2 | |
| (N. End) | 6 | 3 | 1 inch | 3 | 2 | |
| JANET | 7 | 6 | 3 ft | 1.5 | 1.5 | |
| (NEAR DOCK) | 36 | 9 | 1 m | 3.5 | 5 | |
| Alice | 6 | 6.5 | 3 ft | 5 | 5 | |
| W. End | 22 | 12.5 | 1 m | 19 | 6 | |
| Leroy | 2.5 | 1 | 3 ft | 3.5 | 1 | |
| W. Side | 3.5 | 2 | 1 | 4.5 | 1 | |
| Henry | 4 | 2 | 3 ft | 1.5 | 1.5 | |
| E Side | 6 | 3 | 1 | 1.5 | 1.5 | |

ocs

H-19 was put at disposal for a period of approximately 4 hrs. to make circuit of atoll for purposes of geographical differences as outlined on pg. 30 of 12-36. Considerations of available transportation + time required the

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APPLIED FISHERIES LABORATORY
SEATTLE, WASHINGTON

2

Locality

11 APR 54 (CONT)

Personnel

NAME
INITIALS

Radiation level(s)

Operations:

omission of plan. # for tower collection at Coral Head Mkt.
Notes taken on site may be found on overlay labeled "Pre-Shot
Circuit 11 APR 54". Barnes took survey meter readings as listed
above; Olson took soil sample on island & bottom sample on lagoon
side then helped Palumbo & Held. Palumbo & Held covered
separate areas near shore with algae (Halimeda, Caulerpa,
Lyngbia mainly sight) & some sponges. As soon as the
collections were complete it became obvious that extent
searching would be required all persons returned to the
'copter. The schedule (which was very tight) follows:
Lv Elmer 1120, Ar Brien 1205 Lv 1055, Ar Yvonne 1100
Lv 1135, Ar Janet 1145 Lv 1205, Ar Alice 1210 Lv 1230,
Ar LeRoy 1245 (lunch) Lv 1340, Ar Henry 1350 Lv 1425,
Ar Elmer 1435. Palumbo made extensive algae collection
at Mui (Hana) on lagoon side of the reef; also collected land
plants for 'security' reasons. Areas collected were Lyngbia, Halimeda
Jama, Caulerpa and Bryopsis - at least three of above at
end of the 6 stations. The material obtained at Rapa for
sampling Barnes plants seen at Rapa in 1952 are practically
decayed plants and thus remaining are in poor shape.
Sunday evening spent cleaning and getting ready for
Tomamos' visit to process samples.

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FISHERIES LABORATORY

SEA TAC, WASHINGTON

Locality ~~PARR~~ PARRY Eniwetok

Date 2 APR 1954

Personnel BARNES HELD ELSON
PAZUMBOWeather 7-90°F Clear - Cloudy
Water temperature 60.0

Radiation level(s) counts Bkgd 50 c/m

8854

Operations:

BARNES checked calibration of survey meters at Rad Safe. Two gamma readings made; others could not be checked due to fast moving source available. Voltage meters acting up - Goes off random with switch on. New batteries will be placed in meters. Held spent time in compound re-shipping boxes to ZI, obtaining exposure films of Mun, on land, and plants taken for Enyehi 4/1/54. Print not good, but negatives looked excellent. Palumbo processed slide for five islands and was late assisted by Held, weighing wet samples. Also worked on fuel tank, weighing jumbo blue bags change of colder ends. Two photographs from looked in under lab, in Ray and ^{Hannon} M², came around to visit and inquire about suitable dates to photograph our lab work and field work for their documentary film of the operation. Dr Garnett, Ired M.D. visited late this AM. PM to Eniwetok for holiday trip to PK.

much money was spent, but working! Japanese motorboats are still available at \$3.25. Ashchick & Ed. Palumbo finally bought a watch. At times that has kept time faithfully for 8 hours this far. After eating breakfast at 8 AM. Held & Elson painted on their numbered canvases. Barnes checked films and Palumbo pickled several specimens collected at Enyehi, including *Polysiphonia*, *Dityotia*, *Tama*, *Dyngy*, and *Dityopium*. *Dityopium* is a new genus - but experiment with it. Use of most interesting organism has been "indefinitely postponed".

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FISH AND FISHERIES LABORATORY
SEATTLE WASHINGTON

Locality.....

Date 13 APR 54 (Cont)

Personnel.....

Weather.....

Wave conditions.....

Radiation level(s).....

Operations:

AT Col. Wm. Bennett (SI 1122) request, Ed discussed Rangelap situation with the staff, H. Col. Cowan. They have been engaged in negotiations from Trust Territory Dept. regarding when natives can be returned to the islands to eat. They were only dimly aware of our general set up & contractual arrangements. Saw them & tried to get some set up & activities from a sample to the present. Told them KRA was underway & they could contact with Dir. Bio. Med. regarding Rangelap situation. Told them that we have more than a full plan to make particularly in view of the current schedule. Offered to help in any way possible & suggested that they get any ~~sort~~ studies which are on an emergency basis from Bugher. They are planning another trip to Rangelap in the near future & will notify us as to specific dates so that we may participate if we wish.

UNIVERSITY OF WASHINGTON

APPLIED SCIENCE DEPARTMENT

SEA LIFE MUSEUM

Locality

14 April 1954 (contd)

Personnel

Dyer

Field conditions

Radiation level(s)

Operations:

Algae samples, was collected in milk crates ^{west end of} on edge.
 No land plants at all were seen on Edna. Algae were collected here in a pool near lagoon and on outer reef. (2 Dory Snails *Murex* and *Tepturus* were tagged at east and west ends. On Clara, *Murex* and *Tepturus* samples were taken, a few small plants or *Scaevola* were seen at west end, the closest this plant was seen to be west of Mike crater.
 In Lagoon, plants of *Halimeda*, *Styposia* was collected. These had black spots on surface and dead joints intermingled with living algae. In Bell (Bozon bog) the vegetation consisted of several species in the shall. Many of these plants were yellow, greenish and poor looking, but many also looked excellent. *Halimeda* plants were sampled from the eastern end and one specimen of *Pandanus* was seen about 7-8' high, yellowish in color. Coconut plant was sprouting and attained height of 2' ft in the western portion of the island. *Styposia* *Halimeda* was seen in the lagoon and in the flat. This island will be our major study island because of the *Halimeda* beds and plants are in sufficient quantity to guarantee adequate specimen for future study.

Iron was measured in the S side approx. 4' square opening. Presently four lygite
 DESTROYED

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Department of Zoology

Seattle, Washington

Locality

14 APR. (CONT.)

Personnel

S. J. ...
A. ...

Radiation level(s)

Operations

the same as at Engabik, except that most insectes
were more numerous, especially beetles + T. cruceus
T. cruceus appears in all water sample from
well. Bees and water were sweet.

Found water sweet at this camp, but at site of Gene in 15 ft
of water.

Plants found at this camp - Engabik - Engabik. Lx
Elm - 1640 (Engabik, Engabik, Engabik) Deep Baines at
Engabik. G. ... Engabik at 4875 m.
Long ... Engabik. H-19 ...
at 1300 ... Engabik. ...
Near Fairy + Senty Tern ... islands.
The MICE CRATER. Specimens were collected
AT Gene and I ... Pats observed
were AT Janet & ... FAT, but
HARD to trap - NO PAT DRAPPINGS were observed
ON Northern chain. There may be a few AT
Alice.

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APRIL 1968

DEPARTMENT OF GEOLOGY

Locality *Parry, Longley Bay, Antarctica, 18 APR 68*
 Personnel *P. H. R. ... 74-90 F ...*
H. H. ... conditions ~~...~~ choppy

Radiation level(s) *...*

Operations:

What a day! ... party 0605. ...
... 730. Marked ...
... started pursuing ...
... many species ...
... school of goat fish ...
... goat fish had some ...
... were ...
... plants tagged ...
... SW & ...
... at 1300 ...
... (high ...)
... stationed ...
... wave down ...
... success ...
... with ...
... spotted ...
... about ...
... will investigate ...
... will ...
... (more)

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APPLIED PHYSICS DEPARTMENT

SEALED FOR POSTAL USE ONLY

Locality

1000 100 APR 14 (cont)

Personnel

None

Weather conditions

Radiation level(s)

Operations

Specimens were jump started (guzz in 2nd gear last night), and the compressor was checked, check on getting with a pump (will be to see Hays in plumbing) to get it to get to put in it and happened to the west side of the road. Lab + more needs to be done. Last Econ. LML, call to say that he had it and was ready to see Map. Hays had some things that he had seen in the small area. Thought that he was to make to get along with the pump. Octopus collector was able but was lost because of no ice.

1000 100 APR 14 (cont)

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APPLIED GEOPHYSICS CENTER
SEALED 11/72

Locality PARRY Island, Strait of Juan de Fuca 19 APRIL 1954
Personnel BARNES, G. E. D. 71-37
DLSON, PALUMBO

Radiation level(s) 1000-1500 R/hr

Operations:

Packaged dried samples for mailing to Seattle Lab. Follow-up samples to be sent with cards:

DANIEL ALGAE - 4666-6271

SOILS - 71-7528

RAT PELTS - 7251 - 7250

INSECTS #5291 - 5333

FISH - 5334 - 5363

FISH - 4115 - 4288

miss some cards all sent

Processing underway for 1-4, mostly by mail now.

Palumbo collected algae at South Beach and Parry Lab outside reef to complete circuit. Collection started 9-11-54.

Collected some samples from Parry Lab outside reef and some from South Beach. Collected small pieces of algae from Parry Lab outside reef.

Palumbo collected algae from Parry Lab outside reef.

APPLIED GEOPHYSICS CENTER

RU
11-54

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 APPLIED PHYSICS LABORATORY
 SEATTLE, WASHINGTON

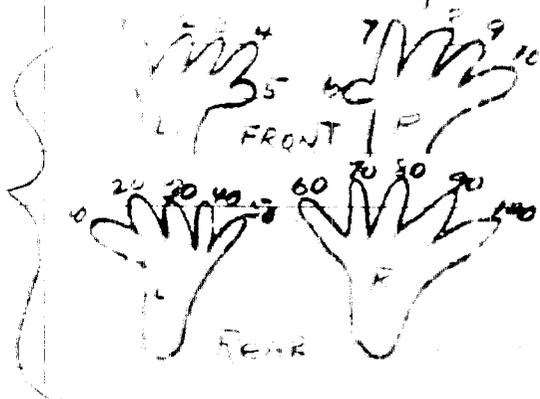
Locality Parry Date 30 APRIL 1954
 Personnel Barnes, Hald, Palumbo, Olson Temp 77-91°F
 Conditions Good

Radiation level(s) Cent 13kgd 94cpm

Operations:

Barnes & Janet at Parry caught 5 rats in 11 traps
 SHOWS profit in starting ^{traps} before TRAPPING. Rats
 # 20, 21, 22, 23, 24, & 26 (all ♀) released on Belle
 near coconut palm plants. Rats # 25 & 27 (♂)
 released at same location where caught on
 JANET. MARKING SYSTEM =

DORSAL
 VIEW



Remove toes
 necessary to ADD
 up to THE NUMBER
 of THE RAT.

Particular care is
 needed for reading
 # 5 & 6 as these
 toes are very small.

Recd follow up on identification of rats - JF-7469, 7568, 7606, 7631
 - JF-7551

DeLong, H&N Engineer at service operations, dropped in for advice
 on attacking problem of algae clogging suction pipe for water tanks
 Packaged samples of fish, algae, and plants prepared yesterday. Processed
 Inverts and fish from Belle Field, Ino and Vietreen (batteries
 replaced). Sent to 306, 307, 308, 309, 310 for survey meters.

RP
 MB
 EH

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APPLIED ENDOCRINE LABORATORY

BIOLOGY DEPARTMENT

Locality PARRY I. Date 21 April 1954
 Personnel Held, C. son Palumbo, Barne Altitude 8000 F Sky Sunny
 Wind conditions Good

Radiation level(s) counted background = 78 c/m

Operations:

Packaged fish and invertebrate samples processed yesterday.
 Henry Burgess, H&N says the crew would like information on processing of fish etc. Also numbers. Held finished processing fish samples up to date. Holes still left in fish collections due to poor catches will attempt to make up tomorrow at Belle and Edna.

Meeting held to discuss operation plan re second phase somewhat change may be necessary in order to approximate original plans. It might be necessary to cut down number of samples per each species selected due to lack of sufficient population in our area. This is especially true of benthic studies requiring 100 samples per species - invertebrates and fish may have to be limited to 5 species. Field Observational studies will also have to be revised for the same reason.

Small accident occurred with held driver of our carrier. Stopped at Turnin town Lab. H&N found going north side swiped Redskins as he pulled out from lab. Looked town as though bus was at fault, but did not so state when safety inspector (4 Burgess) questioned about accident; for the records. We didn't see a thing. Went to Edna + Belle. Capt Bill Cude came to help this morning. He got spray tank in AM. Took photos to University. H&N says that he has 3 or 4 excursions. Requested to be taken up on the island + has no particular value to us. BEST AVAILABLE COPY

RP
 CPH

