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LABORATORY OF RADIATION BIOLOGY
SEATTLE, WASHINGTON

FGC
KB

PRO

DS

Locality Elmer Date 22 June 58
Personnel Cantrell, Champain Weather Cloudy
Weeks, Welander Water conditions normal

411110

Radiation level(s)

Operations:

Finished up processing fish from local lead
south of Grange. Also counted plankton from
some local. $5/10$ milligram & $2/10$ milligram samples
of this plankton were the largest amounts which
we could count. Any more would be too much.
This stuff is pretty "hot". Presently running
spectrum on this same plankton as well
as on some NRDL stuff (checking for Th^{161} only)

Bill, Dan and Art did some aqua lunging
this afternoon. Being Sunday, we didn't do
journal.

SL

MET AL KLEMENT, who is taking George Anton's
PLACE HERE

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Date 1958, 2/12/58 - 7/31/58
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FGL

Locality Elmer Date 23 June 58
Personnel Wolander, Champion Weather normal
Weeks, Cantrell Water conditions normal

Radiation level(s) _____

Operations:

This morning, all four went to Henry by chopper leaving Elmer 0800 and returning 1130. We poisoned on the outer reef and collected two full reef cans full of various fish. We also collected 3 coconut crabs - 2 large and one small, along with several hermit crabs, 1 ghost crab, and 1 crab we couldn't identify. The ghost crab and the unidentified crab were dried whole so that Ed could identify it. It is a common species, I think, but we are not familiar with crabs.

Eleven coconuts, sand and soil. And various other land plants were collected (pandanus, messerschmidia, socratea). Five sea cucumbers were also collected and subsequently dissected and dried.

Packaged the rat tissue from Janet, the fish tissue from Yvonne (#136 thru 186).

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FGL

PRO

Locality ELMER Date 24 June 58
Personnel WELANDER - PATRICK - Weather STORMY
CHAMPION WEEKS Water conditions ROUGH

Radiation level(s) _____

Operations:

Continued to counting of HRT samples.
SPECT. STILL RUNNING PERFECTLY - MAX.
DRIFT IS ABOUT 1/4 CF CHANNEL.

At 0830 HOURS WELANDER, PATRICK - CHAMPION
LEFT BY 14:00 HRS FOR DEEP CHANNEL. THEY
OBTAINED 30 ml of HRT (30 min Haul). ~~PRO~~

Also continued to process samples
collected at HARRY.

Col GREEN CALLED GREEN ABOUT THE
BIRD SITUATION AT SEASTON. THEY ARE GOING
TO TRY A MIST WATER SPRAY METHOD OVER
SAND IS. THIS ^{will be} SET UP SOMETIME BETWEEN
NOW AND THAT DATE. THEY REQUESTED ^{one of} TWO
OF OUR PEOPLE TO OBSERVE THE TEST AT THAT
TIME.

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Locality Elmer Date June 25, 1958
Personnel Wick, Carbit, Weather Normal 87°
Champion & Welandor Water conditions Normal

Radiation level(s)

Operations:

Painted 6 more boxes for shipping; saw X-spectra
on P-41 material (Phaulotus haul from Deep Entrance);
packaged plant material from Henry; cleaned up
the aquarium area.

Left at 1300 for Vera by ~~taxi~~^{H19}. Landed in
lagoon on reef about 4' deep. Collected clams,
algae, sea cucumbers, sea urchins, etc. Altho
coconut trees are present, only a few coconuts were
present - too high for auto-venture. No crabs
were seen in a wide search over most of the island.
Returned at 1630

Attn ED HELD

THE AERIAL MAPPING GROUP IS NO LONGER IN
THE AREA MAP. MANACE HAS RETURNED TO THE STATES
AND HIS REPLACEMENT KNOWS OF NO WAY TO
GET THE PAPERS YOU WANT. COME

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RP
FOL

Locality Elmer Date June 26, 1958
Personnel Weeks, Cantrell, Burd, Weather Normal but with high cum.
Donaldson, Champion, Winkler Water conditions clouds setting in, but
back normal water.

Radiation level(s) _____

Operations:

Dean Henry Burd & L. R. Donaldson arrived at 1000 and after the usual red tape were settled in barracks 461, room 6.

The register located in the super-sealer finally broke down completely. It had been running very smoothly after I fixed it. If a new register unit could be ordered I believe we could install it here. At the present time the remainder of the spect. is working fine. We are experiencing very little drift.

Worked on material from Vera & Packaged material from the Henry collection.

AlPh: J-4 has beakers, graduates, clamps, tubing and other equipment for chemistry. They also have heat lamps, ^{stands} fine wire screens. Battle lanterns or something similar, cable clamps, nipples, etc for boat work. If you need these items let us know before end of operation so they may be ordered before Billy Williams goes home.

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EB.

For

Locality Elmer Date June 27, 1958
Personnel Burd, Cantil, Champion Weather _____
Donaldson, Neke, & Melander Water conditions _____

Radiation level(s) _____

Operations:

Plankton and fishing trip underway at 9:00 am for ship
passage and points north.

laid on off atoll trips ^{for future date,} and trip to Leroy
for tomorrow

Packaged more samples

Burd & Co. brought in two jacks & 2
groupers caught near Cement Barge.
Plankton haul made west of Japen.
& processed to drying

George Dennis

Office of Information

Albuquerque Operations U.S. AEC

P.O. Box 5400

Albuquerque, N.M.

(Write to Dennis for information on weapons, etc.)

A number of films on weapon effects are available at Albuquerque
office.

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K6.

• FOL

Locality Elmer Date June 28, 1958
Personnel Donaldson, Burd, Weeks Weather Normal - Positive winds
Cantril, Champion & Water conditions "
Welanders
Radiation level(s) Elder &

Operations:

Up early.

Packaged following for mailing:

Soils - Henry I. June 23, 1958; Umbrella Target Sludge?
Plankton - P-37, P-38, P-39, P-40
Invertebrates #21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33,
35, 36, 38, 39, 40, 41.

Plants #25, 26 & 27, as well as exp. with phloem bag
plants from Belle (no spec. numbers); 5 coconuts from Henry.
Fish #136 thru 186; 187-212 (muscle & liver);
213-223, 224, 225 (liver & muscle); 268-274;
275-289, 290-297, 298-314, 315-324, 325-329, 350-371
372-390, 391-400, 401-411, 412-447.

Rat Tissues from Janet April 28, 1958

Birds from Henry #4.

[Numbers missing include tissues not sufficiently dry for shipment]

Discussed program "P" with Walt Gifford. Don Burd.
Took part in the operations discussion and for staff
function developed with a broad program rather than monitoring.
Trip to Leroy at 1:45 P.M. for collection & hundreds
of dead birds on the island. Many noddys and sooty terns
are nesting and feeding in the area. Collecting partly
successful. Dr. Burd went fishing with A.E.C. group.

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Locality Olney Date June 29, 1958 (Sunday)
Personnel Burd, Cantel, Champion Weather Fair
Wicks, Nilsen & Donelson Water conditions _____

Radiation level(s) Oak

Operations:

Up early to open up the lake and get on long boats, etc.
No damage except some wet feet and a few broken dishes.
Fish (Trachurus trachurus) were picked up in a pool at the south
end of Parry many fish were stranded and those dead were
returned to the lab to be used as samples others captured
alive were added to the live tank.

Dr. Mel Merritt, Sandia Corp. came to the lab. and
spent the morning in conference on "P" with
Dean Burd and L.R.D.

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Locality EIMER Date 30 JUNE 1958
Personnel BURD, DONALDSON, VELANDER Weather GOOD
WEEKS, CHAMPION, GASTEL Water conditions HI SURF ON REEF

Radiation level(s) _____

Operations:

BURD and DONALDSON DEPARTED FOR UOTHE AT
0800. REST LOCKED IN CASE. VELANDER MAKING
PREPARATIONS TO LEAVE. PICKED SOME SAMPLES TO
SHIP WITH BARRACUDA 11210. INCLUDES PLANTS:
NOS 33, 34, 35, 36, 37, 38, 39, 40.

Burd & Donaldson left Ford at 0900 in Air Force GS-16,
Went by way of (Bikini) from the air the still looks like a sand
spit with intertidal sections, no grass, no coral. From
Bikini on east to Rongelap to air drop & sack of mail.
Turned south from Rongelap Atoll to Uothe arriving at 12.15.
After lunch at the weather station Lt Ellis introduced me
to the "chief" of Enajawa, the interpreter Lt Steven
and the native pastor Joseph. H-11 resident engineer.
Richard Gonsinger was very helpful. Fish were collected
for a coal had just sent out of the camp. The three native
men helped collect fish, we were joined by a dozen
small deep 5-7 years of age they swim like eels
and looked like seals as they popped up out of the water
with a goat fish in their mouths. At the surface
they flip the fish about, start with the tail and
eat it, skin, gut, head. The water. Collected
most of the sample except we could not find
a clam. Departed Uothe at 3.15 arrived at Ford
at 5.05 PM. and Elma at 5.45.

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For

Locality Elmer Date July 1, 1958
Personnel Holander - Bird, Champion Weather Shower
Condit, Donaldson Water conditions Awful

Radiation level(s) 1.7 mR

Operations:

Holander departed from Perry at 0930 on his way to Honolulu - and after a week of playing tourist - on to Seattle. Don Bird made the round of the check out places and purchase place in preparation for his expected departure tomorrow.

Bird & Donaldson visited the Alota and talked to the mate, a Mr. Johnson. The Alota needs a good deal of cleaning to get it ready for a laboratory ship. There are plenty of bunks, with a space for 24 men - the mid-ship section that could be used. This section may be air conditioned as are the crew quarters, wardroom, and officers quarters. The well-deck of the Alota would serve well as a working area. A tarp could be fastened over the well deck to provide shade and protection from the rain.

Don Bird and Donaldson also had a conference with Eric Nygaard and Joe Sanders on the surplus property that is available here. A list of the equipment was given to Don Bird for evaluation by those at the University competent to determine the University interest.

Bird & Donaldson were invited to a dinner party at 112 with A.F.C. and H. N. "Hubert" [unclear]

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Foot

Locality Perry Island Date July 2, 1958
Personnel Burd - Champion Weather _____
Carlton, Marks & Orrellson Water conditions _____

Radiation level(s) Siquia - E

Operations:

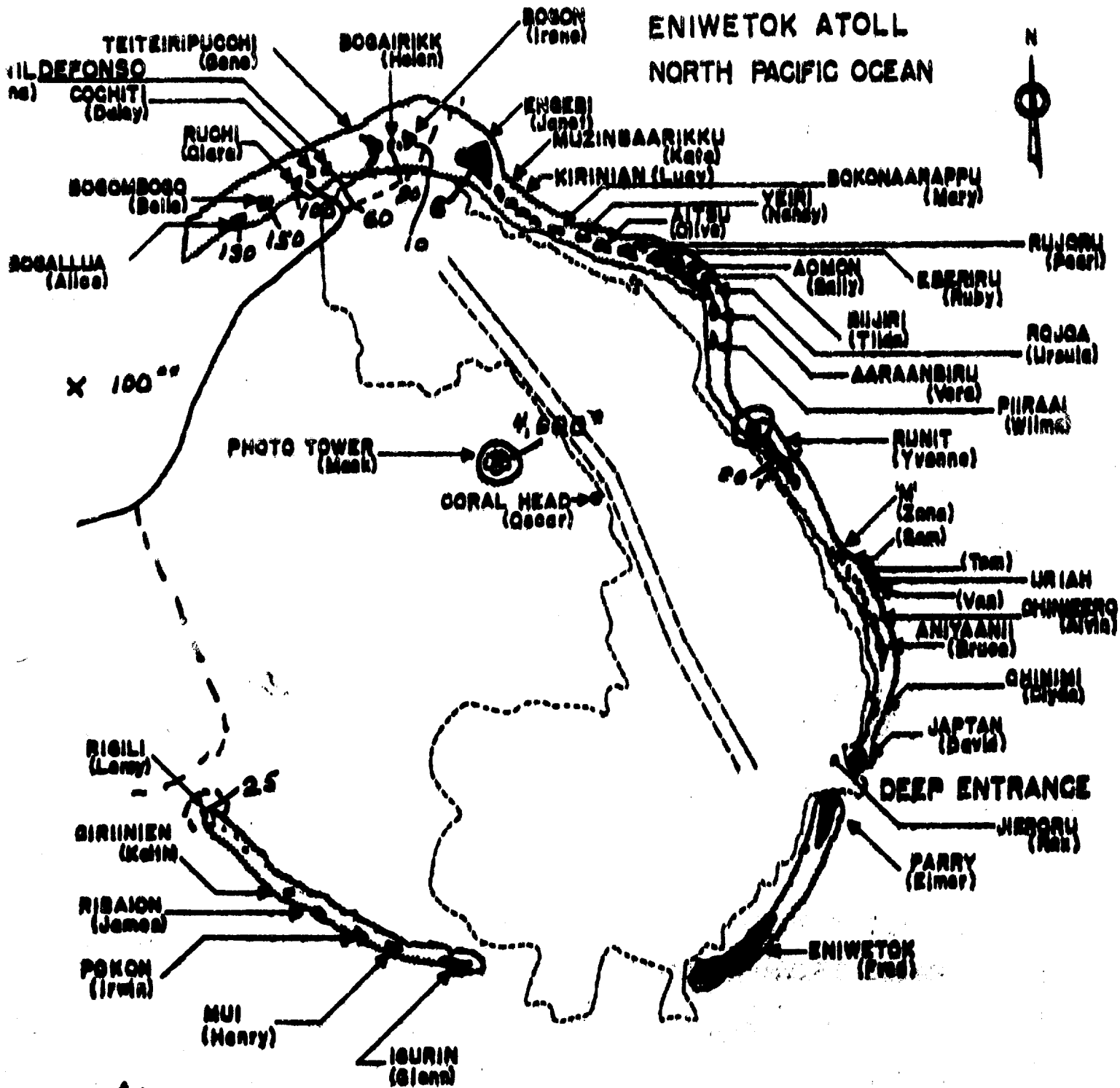
Dean Henry & Burd departed from Elmer at 0930 for Fred and his trip home. DR DONALDSON MADE FLIGHT WITH TV-6 PEOPLE AROUND THE ATOLL. CONTINUED TO PROCESS & COUNT SAMPLES PREVIOUSLY COLLECTED.

Rad. safety survey trip around the atoll was organized by Maj. Gordon Jacks. T.R.D. was asked to go along to observe the color in the water. After passing the "Oak" crater near Alice the usual cloud of fine material was observed in the water. From the crater to about one mile south of Larry a band of brilliant green color could be seen in the shallow water on the lagoon side of the reef.

This green color was assumed to be due to a gigantic bloom of algae produced by the release of animals for plant mutation by the Oak device. Radiation readings at 100' in the "chopper" were 30-60 mR over the reef and 500 to 600 mR over the "green streak" on the lagoon side of the reef.

A stop was made at Larry to observe the damage to the bird colony by the Oak shot. Several hundred birds were seen along both shores of the island unable to fly and drown at the water edge trying to feed. The sharks on the point where we waited out the rain appeared 25' away from apart. The boccia trees near the center of the island in the bird nesting area are broken or uprooted. The leaves on the West side are burned on the trees remaining.

TGL



ALL READINGS IN MTR.
GROUND LEVEL, AS OF 0815
HRS, 2 JULY 1958

* 1415 HRS 2 JULY
* * READINGS AT 200' ALT.

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File

Locality ELMER Date 3 July 1950
Personnel DONALDSON, WEEKS, Weather GOOD
CHAMPION, CASTRUC Water conditions "Normal"

Radiation level(s) Bkg. up slightly from Bikini - 1.5 mR. (cdm-B)

Operations:

DR. DONALDSON & WEEKS DEPARTED FRED FOR A COLLECTION TRIP TO KUSAIE I. CASTRUC & CHAMPION CONTINUED PROCESSING COLLECTIONS. RECEIVED REPORT FROM FALL-OUT PREDICTION GROUP THAT FALL-OUT MIGHT INCREASE. COVERED INSTRUMENTS & SHUT DOWN AIR CONDITIONING UNIT. THE UNIT WILL NOT START AGAIN (SWITCH SEEMS TO BE CORRODED).

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ENV. 100

Trip to Kusaie in the Air Force SA-16 was a wonderful experience. We departed from Ford at 0700 and arrived at Kusaie at 0745. Traveled with Capt John Kittering and Chuck George. Mrs. Hedges of Papeete was also a passenger. Had lunch at the airport bar and collected a vast amount of food material with the aid of two fishermen. We collected fish on a reef in the harbor. The fishermen used their own device root a few roots pounded on a rock and washed in the water washed wonders. The fish bill was almost instantaneous much better than we got with dry root. A beautiful red and green colored surgeon fish made up the bulk of the sample. We should save these fish for the collection as I don't think we have them - at least not many. Spent about 30⁰⁰ on samples and lost it. It can be considered as expenses.

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Locality E. (inner) Date July 4, 1958 (Friday)
Personnel Centril, Champion, Weather B. (inner)
Wuko, & Swallow Water conditions

Radiation level(s)

Operations:

Processing of the samples collected at K-urain
proceeded, area was cleaned out and samples prepared
for shipment.

Visited the deep water pier to look at the catch,
a large number of fish were captured. A number of
the forms seemed to be new so we will fix
up a container and put the live ones in the
outdoor tank and preserve any unusual specimens
for the collection.

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Locality Elmer + Leray Date July 5, 1958
Personnel Central, Champion Weather showers
Donaldson & Weber Water conditions

Radiation level(s) 1.0 Mr/hr

Operations:

Don Weber checking out in preparation for going home
Donaldson in conference with Wynkoop, Sanders and
others on the Rangloap survey and the use of the
alots. Mr. Wynkoop will press for the use of the
alots with out change of our program for the
August trip. The best date for the Rangloap
Ecology Program will be $\pm$ Aug 18 to Aug 30.

Food was received from Al on the Silverstein trip
the ship is due at Eniwetok Sept. 1 and can
commence on the survey as soon as equipment
is ready.

Commissioner Graham and Mr. Neilson A.E.C. visited
the Laboratory during the morning. The Japanese situation
formed much of the conversation. I suggested that better
relations would result if the peaceful aspects of
the testing program to applied biology were stressed.
The Commissioner was very much interested in this proposal.

At 130 Geo ^{Barnier} Brenner, Central, Champion and Donaldson
went to the Oak Grove to photograph the "green
streak". The water was not as intense to day as on
July 2. Photos were taken of the reef the plant
and from damage on Leray. The great number of
sick fish observed on July 2 have either recovered
or died. A count of 24 dead birds was observed
on one sand spit. Plankton and a clam shell were
obtained.

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Locality Elmer Date July 6, 1958 (Sunday)
Personnel Cantril, Champion Weather Shower
Neilsen & Donaldson Water conditions

Radiation level(s) Logwood (0.630) E 1200 - 2.5 m/hr

Operations:

Processed a clam collected at Leroy and cleaned
up the remainder of samples collected at previous trip.
Don ran gamma spectra of the algae (caulerpa)
collected at Leroy.

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File
24
119

Locality Elmer Date July 7, 1958 (Monday)
Personnel Wubs - Control, Weather Fair
Champion and Donaldson Water conditions

Radiation level(s)

Operations:

Don Wubs left Elmer at 0930 for Fred and the trip home.

Sim had 6 (six) litters in today's mail.

Procured water from Leroy. Had field day cleared up tanks, raked the yard, trimmed dead branches from the shrubs & palms, etc.

Donaldson attended planning session on Silverstein operation called to get our licks in early before some of our friends pull out. Those attending -

A W Klement for DBM.

Cdr. J H Wendell - F.F. 7.3

Ernie N yncorp - A.E.C. 7.5

Cdr. T.J. Masters T.F. 7.3

Cdr. K.M. Gustafson 14dg.

Col. E.A. Lucke 7.1

Laurence Donaldson, 71 Program 40.

1. The general program of operations was discussed
2. Time schedule - tentative - Sept 1 to 21 inclusive
Sept 1 & 2 - installation of equipment on Silverstein
" 3 & 6 - survey of danger area Crisis #1
" 7 - At Eniwetok to fuel a supply for "Glean"
" 8 - 14 - trip Eniwetok to "Glean"
" 15 - 20 - return trip to Eniwetok
" 21 - unload ship

3. Operational Plan will be worked out within 2 weeks with 23

4. List of special requirements will be presented in 2 weeks.

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131

Locality Glen Date July 8, 1958
Personnel Central Chapman Weather Fair
Domick Water conditions Smooth - little wind

Radiation level(s) 1 mR to 2.5 mR maximum

Operations:

Spent entire day in plankton traw. Left Glen at 8:00 a.m. and returned at 5:00 p.m. Collections were made at five stations with two nets fished at the same time. Samples were preserved in 95% alcohol. Sample "A" from me it will be used for local assay while sample "B" from the second net will be shipped to L.R.B.

Station	net 43	- 0905	to	0925	1/2 mill off Glen
"	"p44	- 1115	"	1135	1 " " Leroy
"	"p45	- 1305	"	1325	1 " " Clara
"	"p46	- 1500	"	1520	1 1/4 " " Yvonne
"	"p47	- 1625	"	1645	Deep Entrance

Started to process samples upon return to the laboratory but ran into filter problems with sample net 44 because of jelly fish.

Asked Mr. Wynne to send a wire to Tarawa to request assistance and permission to collect our samples in the Crown Colony. The trip to Tarawa is scheduled for Friday and Saturday.

JP

DA DONALDSON

A. E. Seymour, Marine Biologist, Environmental
Sciences Branch, Division of Biology and Medicine, Washington, D.C.

Ernest Wynkoop, Chief, Eniwetok Branch
Eniwetok Proving Ground

SHIP SUPPORT FOR ECOLOGY PROGRAM AT KONGELAP

SUBJECT: TEL: MW: M-2603

Reference is made to your letter under the above subject dated
March 7, 1958, Symbol: NMMS:AMM.

Based on our present concept of the type of support required for
your proposed Ecology program at Kongelap, it appears desirable
in the best interests of the Government to consider the assignment
of "ALOHA" (LST-444) as your station ship.

The inherent uncertainties of test operations at NEU make it in-
advisable to establish at this time a firm schedule of ship avail-
ability. However, a reasonable forecast of such availability
would be sometime during the first half of September, 1958.

Cost data compiled to date during the limited period that "ALOHA"
has been in service at NEU reflects something in the order of
\$1250.00 as estimated daily costs for station service.

We shall be pleased to support your continuing program on the
basis of firm scheduling at a later date when test and funding
uncertainties become resolved.

CC: W. B. White, FOD, ALO
AMC Office, Honolulu
Chrono
Central

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FOR
[initials]

REQUEST FOR SUPPORT FOR PROGRAM 40 (RADIATION BIOLOGY)

OBJECTIVE:

Radiological-ecological study of Rongelap Atoll, to evaluate the extent of radiation contamination of an off site atoll from the present testing program and to further the available knowledge of the cycling of the "long lived" radioisotopes produced by the 1954 tests.

SUGGESTED TIME:

August 18¹² to August 31, 1958, inclusive.

SUPPORT NEEDED:

Transportation and living accommodations for twelve scientists from Eniwetok to Rongelap, movement about Rongelap as requested by the party leader, Doctor Edward Held, and return to Eniwetok, with the men and materials, at the end of the operation.

SUPPORTING AGENCIES:

1. L S M- Aloto.....for transportation and housing
2. Weather station at Rongelap.....for communications
3. A S- 16.....for mail and supplies

Director, Program 40

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Locality Elmer Date July 9, 1958
Personnel Cantel, Champion & Donaldson Weather Shower
Water conditions _____

Radiation level(s) _____

Operations:

Packaged material for shipment to L.R. B. Package check-
up mail of the back log of materials includes:-

Plants: 33-80 inclusive

Sail: sample from Vera

Birds: 5-6

Invertebrates: 34, 37, 42-71

Fish: 448-452, 453, 454, 455, 456-466, 467-
491, 492-517, 518-521, 522-533, 534-551
552, 553, one unknown sample (look in old
log book).

Note: Parts of samples 28, 37 and 47 are not dry
yet and will be sent with the next shipment.

Conference with Joe Sanders on the Pongalap trip
set the dates at Aug 12 to 24 inclusive. Sanders
and Cal Luchs agree that this operation can be a task
group function. Sanders suggests that subsequent
Pongalap trips be worked out as a D.B.M. request
for support to 7.5 (Adm. Oper. Office) and that it
be handled as a line item.

Write to Ed giving dates of Aug 12-24 and
requesting the order to be out for Aug 10-8
departure from Seattle. The request for the
Alato is for 12 noon. Include Pm and Tim
in the party for they will be back in time to
join the Silverstein & Luchs and now scheduled for Aug 25-28+
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11-1

Locality Cloner Date July 9, 1958
Personnel Control, Champion - Weather Rain
Donaldson Water conditions

Radiation level(s) Background

Operations:

Processing plankton for counting and isotopic separation.
Packaged the stone fish that caused injury to a swimmer
some weeks ago. The fish was thawed and injected with formalin
wrapped in cheese cloth soaked in formalin, put into a yellow can
and then into a wooden box. Paul Sanders apparently requested
that the fish be shipped to him.

Mr. H. Yencow brought Capt. Detweiler - T.E. 7.3 to the
laboratory to visit and to discuss our program and need for
support.

Re hung a $\frac{1}{2}$ meter plankton net, using 12 feet of the
remaining supply of Cascoot Tiller Rope. This leaves only
enough wire 16' for the repair of one more net. Yencow
please order another spool of wire like the enclosed sample
from Pacific Wire Rope Co.

5/7

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Locality Olney Date July 14, 1958
Personnel Carol Chapman and Weather Shower
Ronaldson Water conditions _____

Radiation level(s) _____

Operations:

Counting specimen samples collected on recent tour July 8th.
Noted a mountain of dirty dishes from the last collections
series. The drying of masses of plants, fruits, etc. in
glass dishes is a poor procedure and leads to much
of the material sticking to the dish. Better to lower the
oven temperature and take more time so that
plastic bags may be used.

Packed for the Tarawa trip. Went over to
Fred for the night for a 6:00 am. departure which
means a 4:00 am. waking time.

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Set
ew
P.D.

Locality Elmer Date July 11, 1958
Personnel Cantril, Donaldson Weather stormy, rain
Champion Water conditions choppy

Radiation level(s) Background

Operations:

Donaldson & Champion on their way to Tarawa. At the lab, counting was continued, completing Total β counts on plankton collected on July 8, and starting β spectrum on the same. Also finished counting (β spectrum) of water collected off Heroy on July 5. A few hours ~~was~~^{were} spent in clean dishes and trapping rats. Two more down but we ran out of bananas. J. Bernier also gave us the pictures taken at LRB personnel (when Dr. Bard was here).

Left Enid for Tarawa at 5:50 am. Lt. Charles George accompanied the flight as "extra" navigation. Plane stopped at Majuro for 1 hour so L.R.B. could ashore and arranged a conference with Mr. Maynard Nease, Dist. Administrator, Marshall Islands, Majuro, M.I. (Trust Territory of the Pacific Islands) (Nease, please send them copies of our reports). Mr. J.B. Mackenzie & Mr. C. Morris also attended. Nease requested that Mr. Mackenzie and a new man get to be secured for the Kingman Reef with the coming day survey. I replied - if they are at Eniwetok for the departure of the ship, before to Aug 12, we will take them along. Arrived at Tarawa at 1:30 pm and loaded into a "dubur" for the trip to the weather station. Capt. Ed Bond - in charge of the station upon.

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Locality Amor + T. L. L. L. Date July 12, 1958
Personnel Gertel - Amor Weather Rain at Pary - beautiful at T. L. L. L.
Champion + Donaldson Water conditions Rain

Radiation level(s)

Operations:

Control Counting Plankton PHS - 1 P. L. L. L. completed and P. L. L. L. filtrate started.
July 11th ^{Cont.} Donaldson conferred with M. L. Bernacchi, Resident Commissioner T. L. L. L. and Ellis L. L. L. Mr. & Mrs. Bernacchi were most helpful and offered to help in any way possible. Plane schedule was stepped up for a 9:00 am departure July 12 so a wild scramble to get the collections in the time remaining. Fish were collected by paring around a sunken. M. L. L. L. left from 1944 invasion four giant black spotted groupers were caught in addition to a number of smaller fish. Crabs, algae, coconuts, squash, papaya, bread fruit etc. were obtained. Stopped by darkness.
July 12th Up at 5:30 am. a bit to eat and then start back down the hill to the air strip. Capt Bond, Champion and Donaldson started out ahead of the main party in a skiff to go to B. L. L. L. from B. L. L. L. Island. Mrs. Bernacchi had fish, clams, bread fruit coconuts etc. ready for us. After a cup of coffee the wild ride down the sand spit, over islands, to the air strip. Departed at 9:15 am and arrived back at Ford at 2:30 pm.

Started at once on processing material collected upon arrival at Elmer. Part of the fish collected at T. L. L. L. were preserved for ship meat to the College of Fisheries for Art's class use.

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SH
see
see
FL
1/11

Locality Olney Date July 13, 1958 (Sunday)
Personnel Carl L. ... Weather clear
1. ... Water conditions ...

Radiation level(s) Proton (1500 - B) yesterday

Operations:

Twenty ... and 6.5 to go. Very strong ... yesterday
afternoon.

Rained hard all morning. Background level of rain ...
2 ± m. Ed Matt running rain water sampler.

Control ... with analysis of plankton ...
collected July 8, 1958.

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Wash
Univ
Biol
Sci

Locality Plum Date July 16

Personnel W. J. ... Weather ...

Water conditions ...

Radiation level(s) (Scavenger count at 1000)

Operations: ...

Plum ... to placed up lower of ...

Received word from Target Wash that we had been ... cancelled for tomorrow scheduled flight to Kapingamarangi ... and Panapa. Rotation of T Don stations in this area.

Required flights to ... Utirik - B.K. July 16 for Ujelang - Sat 19 " " " Champion

Kapingamarangi & Panapa from Wed. July 22 & 23 - ...

On - that the "Bad Tape" for the timer ... of the gamma spectrometer is worn out & we have ... checked here and can't find a replacement. Better ... order a new one and send it out at once.

Packaged plaster and other material as listed

- | | | |
|--------------------------|-----------------------------|------------------------|
| W-1 MFP | P-31 preservative | P-39 preservative S.S. |
| W-1 Untreated | P-37 PLK | P-39 PLK |
| W-1 Co ₂ #2 | P-38 PLK | P-40 PLK Subsample |
| 2.5 A.C. (radioactivity) | P-38 Preservative | P-40 Preservative S.S. |
| Algae #80 | P-33 MFP | P-40 MFP |
| Umbrella Target ... | P-37-2 MFP | P-41 LP |
| P-37 MFP | P-37 MFP S.S. | P-42 Preservative |
| P-45 LP; P-45 Salts | P-45 MFP; P-46 LP; P-46 MFP | |

HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
APO 437 Box #1
San Francisco, California

2937-JFE

15 July 1958

SUBJECT: Request for Support for Program 40 (Radiation Biology)

TO: Commander
Task Group 7.4
APO 187
San Francisco, California

1. Program 40 (Radiation Biology) has as its objective the radiological-ecological study of RONGELAP Atoll, to evaluate the extent of radiation contamination on off site atoll from the present testing program and to further the available knowledge of the cycling of the "long lived" radioisotopes produced by the 1954 tests.

2. The support needed is transportation and living accommodations for twelve scientists from ENIWETOK to RONGELAP, movement about RONGELAP as requested by the party leader, Doctor Edward Held, and return to ENIWETOK, with the men and material at the end of the operation. Support is needed during the period 12 August to 24 August inclusive. The use of the MV ALOTO has been requested of CTG 7.5 for this purpose.

3. In addition, CTG 7.4 is requested to provide communication support by the Weather Station at RONGELAP, and normal SA-16 support for mail and supplies.

FOR THE COMMANDER:

JHW/jfm

DISTRIBUTION:

- 2 - CTG 7.4
- 1 - CTG 7.1
- 1 - D/A
- 1 - J-3
- 1 - J-6
- 1 - Program 40 (Donaldson)
- 1 - CJTF 7 (Info)
- 2 - TG 7.5 (Info)
- 2 - P&R

J. H. Wendell
J. H. WENDELL
J-3
Plans & Operations

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MC
JH
KB

Locality Elmer Date June 15, 1958
Personnel Chapman, Linton Weather Clear
Water conditions

Radiation level(s) 2.7, 1.1, 0.45

Operations:

Chapman is continuing his work on bacterial culture collection for Dr. John Linton. The cultures inoculated will be forwarded to Linton in today's mail. A total of 29 samples were inoculated. The list of organisms is included with the cultures.

Conference held with Mayne Smith, Capt. Corbett and L. R. on the Atole schedule and equipment needed in relation to the work order assigned by Mr. Wendell #3 for the same equipment. I require the following items:-

- 1- small boat (14'-16') with outboard motor.
- 15' folding cot for sleeping on deck if it is to be in the quarters.
- Covered space over the well deck for laboratory space and a sleeping area.
- Extra food and water for 14 ± men.
- 1- Temporary work bench on the well deck about 12' x 3' to serve as a laboratory bench.
- 1- 4' x 2' sawn lumber floor for use on Rongerik Island by the scientific party.
- motor launch was not requested for it is felt that it is unnecessary since the ship is to be beached and truck will be moved ashore.

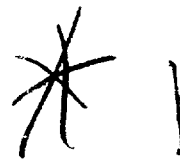
W. L. Ward
July 1958

W. L. Ward

Locality Elmore

Personnel 1 alt

Bikini is
Circled



Radiation level(s) 1.0 24R

Operations:

Chapman wanted game samples, pterodactyls, crows, hawks, small birds and such the first which Douthett and I collected went to Utah to collect.

Douthett and I left Elmore at 05.40 by water taxi for Ford in a torrent of rain. Left Ford at 06.50 by SC-16. The field was so flooded that it was a good thing to have an amphibious plane. After leaving Ford we flew almost due east, passing south of Bikini, over the middle of Woyah, over the Southern portion of Pongah and in to Utah landing at 11.50. After the usual blow with the magistrates we started to collect. Sam collected fish, clams, & algae, Douthett collected plants, birds, etc. (I have to stay out of the water for a few days because of a small thumb).

All our film has been used, as near as can tell so I presented a roll from the Pioneer and shot exposures 1-7 at Utah, 8-16 on Pongah and 8-16 while over Pongah. My first experience with Douthett & hope they turn out well. Sam.

Ed, Sam, also came & we no problem with him. A reward, at least, credit funds to pay him and you can get him in the 12 man limit.

W. Kelly, the meat you sent to Ed is as good or better than that I had last winter, it is a good one. Have you sent up another batch or - in a week of 100 lbs.

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Locality Elmer & Pape Date July 22, 1958
Personnel Champion - Central & Weather The worst possible - rain
Donaldson Water conditions Rough

Radiation level(s) Juniper 14.20 B

Operations:

Donaldson & Central went to Fred at 2.00 on July 21 to stay over night for the second scheduled trip to Pape & Kapingi. It rained and the wind howled all night - we were up at 0300 had breakfast waited till 04.00 - rain increasing 0500 flight postponed till daylight, 0600 flight cancelled. Arrived back on Elmer at 1030.

With the aid of Lt Ches George worked on possible tracts for the vibration & The fall out data - poor - to the point of almost non-existence was furnished by Al Clement, DBM representative. Copies of the proposed tracts are enclosed. These are for planning only and should not be considered as final.

Since cleaned the tanks on the porch and the platform. The storm had so fouled the water that many pounds of sand - mud had plugged the lines and filled the tanks with much

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Locality Elson Date Aug 27, 1957

Personnel T. L. Tait, Chemist Weather

and Anderson Water conditions

Radiation level(s) 0.8 m

Operations:

Elson - Mr. M. Brantley, T.S.U. Operation called to tell us that they request for support for the Bering Sea Aug 12-24 trip. They asked which section T.L. Tait and that they were prepared to secure the request for communication, mail, and air support.

The gamma spectrometer got tired and quit. When we pushed the reset button on the scaler, the timer starts to operate, - but it continues to check itself setting the unit at 0 (zero). And as a result does not start the second phase of the operation.

Packed samples that were dry in the oven for the Uthie collection.

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Locality Elmer Date July 18, 1958
Personnel Champion, Cantel and Weather Rain
Dorelson Water conditions Everywhere

Radiation level(s) 0.800 - 1 m.r. (Pisonia - E-1100) 15.00 - 37 m.r. on survey
Operations: meter and 1400 Beta counts per minute on the P scale.

Spent morning packing samples, trying to get the times for the gamma scale ^{finger} fixed - without luck.

Helped Ed Heath with water sample for radiation assay.

Received wire from Al Seymour on status of Bongelap trip. Wired Al that the trip is a 21 function and is scheduled for Aug 12-24 inclusive. Also sent wire to Ed Heath with instructions to pass on by phone all the planning notes that have been included with the logs.

Spent afternoon in Conference with:

Cdr Mendell - 7.1

" KE Byrne - 7.3

Al Klement and L.B. D on program for the Silverstein. For planning the ship can cruise at about 400 miles a day, the trip to Guam from Eniwetok will take about 12 days. The survey of the Restricted Area, then will have 5-7 days with the balance for fueling etc. I am sure that many changes will be included before Sept 1. We do not have the full out date - nor does anyone with much detail. - It went that way, is the usual rep we get.

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1.
E.H.
F.L.
J.F.
R.D.
K.B.
J.R.

Locality Clms + Ujeling Date July 19, 1958
Personnel Cantril + Champion, Weather Fair
Donaldson + Water conditions _____

Radiation level(s) 0.6 mS 0930 0.8 1530

Operations:

Cantril worked at the Laboratory and really skinned up the place. Every thing is spic and span.

Champion + Donaldson left by SA-16 for Ujeling at 0915. Arrived at the native village at 1100 and after the usual pleases with the native chief Joang who speaks some English. Bill collected fish, clams, snails, etc and Donaldson in company with the native medic collected (L'Omewe) plants and Crabs. Two small coconut crabs were found in a pit trench dug by the Japanese. L'Omewe said that most small crabs - coconut - are found in moist places among large rocks. He said the large ones are under the trunk of the coconut trees.

The native people on Ujeling are busy building boats. They have a number under construction. In making of coconut fiber rope was also observed a piece of rope about 1/2" of an inch in diameter, was so strong that I could not break it.

Left Ujeling at 1730 for return and arrived at 1530 on L-26. Brought us back in time for processing the plants and putting away the equipment.

Wayne Hiatt still trying to find some one to service the spectrometer.

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11.13
KB
220

Locality Elmer Date July 20, 1958 (Sunday)
Personnel Curtis, Champion Weather Fair
Donelson Water conditions _____

Radiation level(s) _____

Operations:

Curtis went shopping over on Ford, Champion played
handball. Donelson spent morning organizing a talk for
the local medical unit of the Task Force, H. & M. etc.
The local medical unit under the general leadership
of Dr. Medrel have weekly seminars. I talked about
our program and interest in developing more of the
positive side of radiation biology rather than a monitoring
function. After the seminar a couple of hours were spent
in informal discussion of the role of radiation
biology in the A.E.C. and world affairs with
Col R.M. Lechaussse, USAF and Staff Surgeon J.T.F.
Dr. Lechaussse represents General A.R. Luedicke, USAF
Comdr J.T.F.-7. in biology and health matters, he
made a strong pitch for a direct line position for our
organization in the test program. Since General Luedicke
is to be the next general manager for A.E.C., the
Col's recommendations may get us up a step or
two on the ladder.

A visit to the Atlatl and talks with Capt
Fosse, 1st Mate Johnson and Chief Engineer Willis
covered most of the areas of interest. Ed - please
and put the rubber raft, paddles on board. They
plan to put an extra reef - walk in size for
freezing samples etc. I think this is going to
work out in a fine fashion. If we can just get DBM
to act on the hull and work out the binocular microscope

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100
24
25

Locality Chim Date July 21, 1958 Monday
Personnel Champion, Cantil Weather Shower
& Dorelson Water conditions

Radiation level(s)

Operations:

Ed's letter arrived today, was good to get info on conference, budget & activities.

Chased around the island today and obtained all the items on Ralph's list of requested things as of July 9. except

2 hut lamp stands

7 lbs Conc. HNO_3

7 lbs Conc. HCl

1 lb H_2O_2 (Superoxal)

After buying, begging, almost stealing the items I returned to E.M.B. and found that the entire list was already here - you sent it out with Sam and Bill. Items above should be purchased and shipped at once as they are not available on the island.

Shipped package of Tarawa samples to L.R.B. today

Plants 81-87, 88-90

Invertebrates 72-81

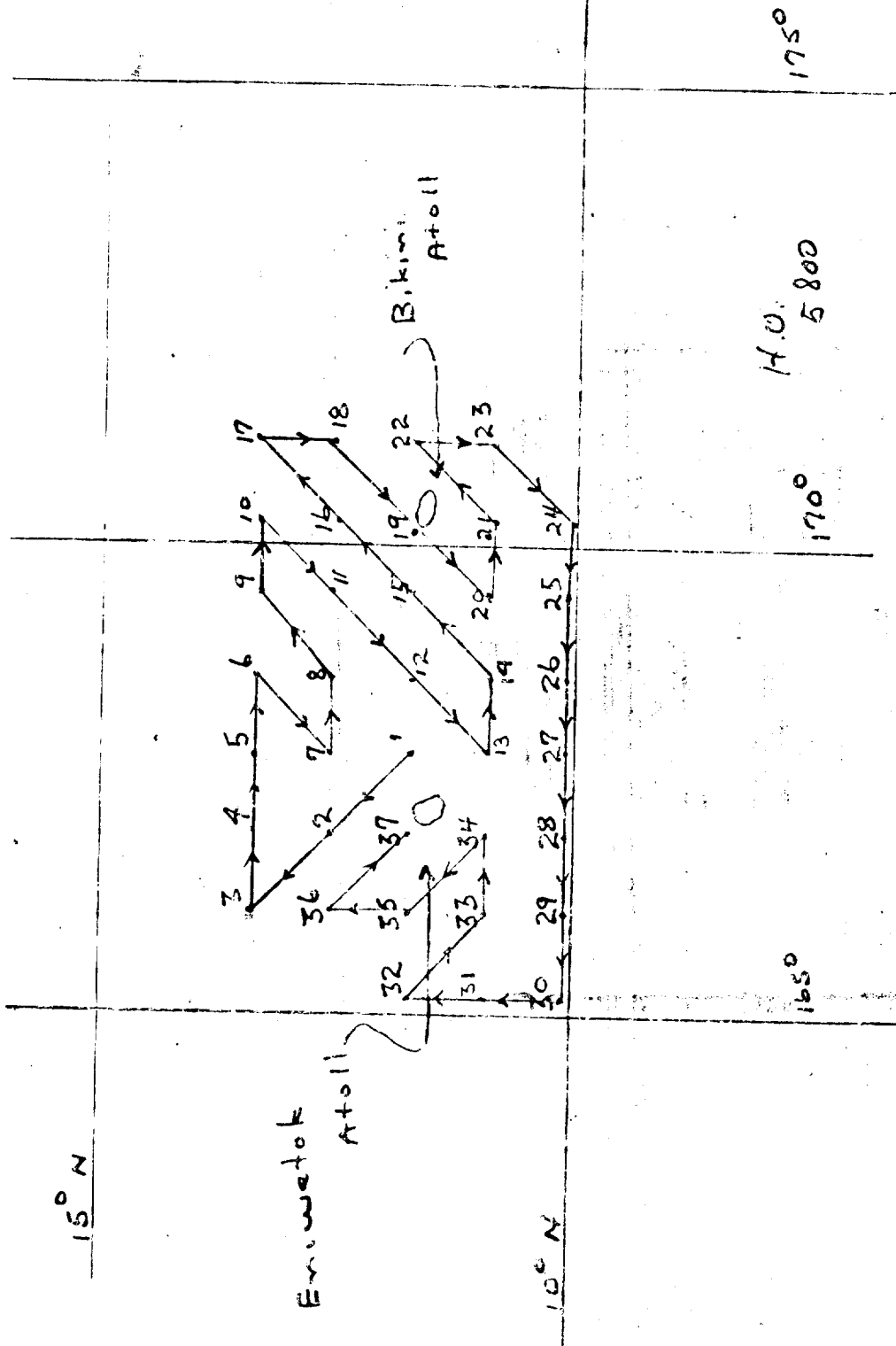
Fish 554-558, 559-563, 564-568, 569

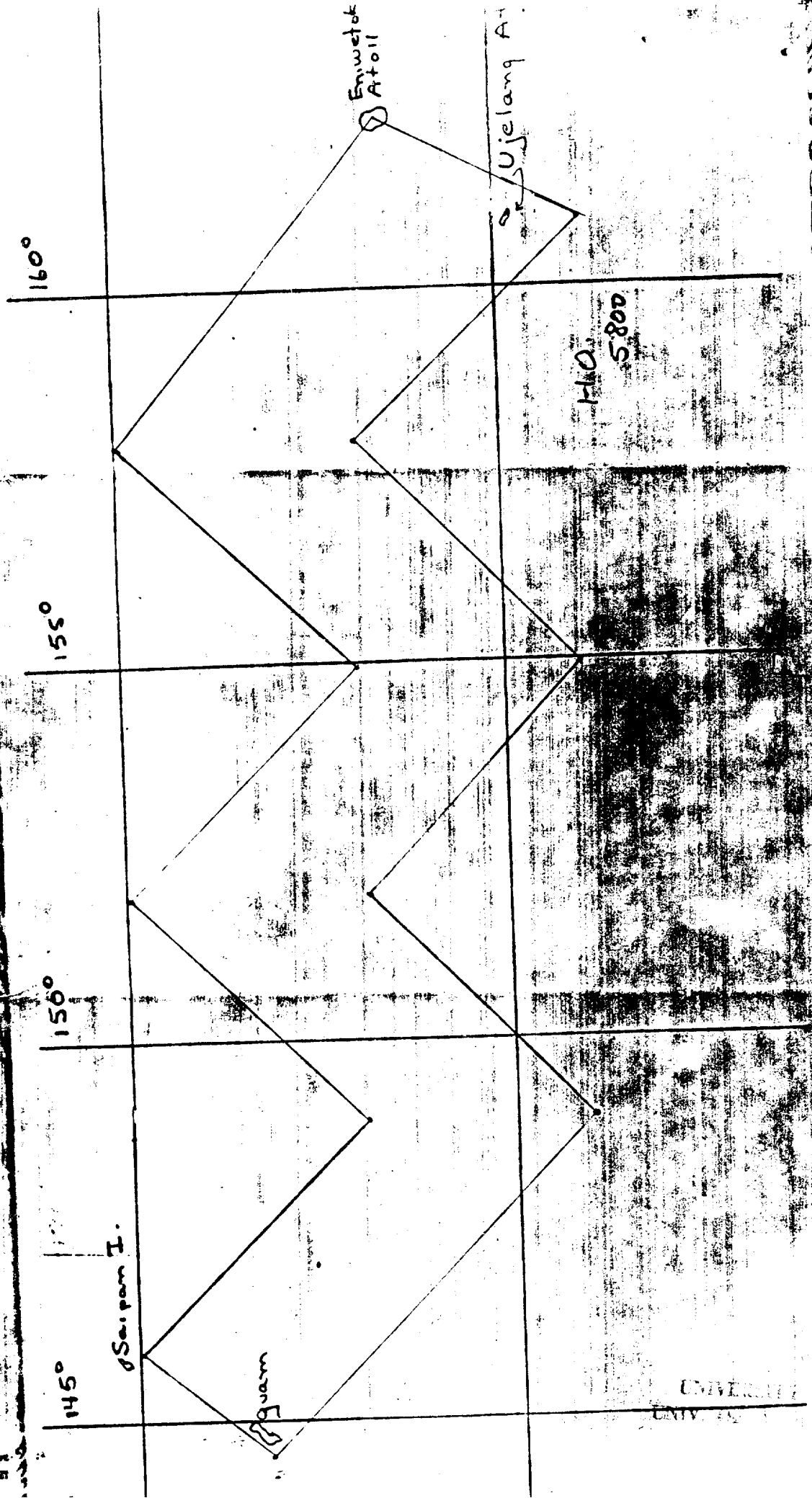
Soil: Tarawa Corresponding logs are included with samples

H.P.D. talked to Jim Lyden about Alato's request for short-wave radio expanded use - Jim said it is a H.P.D. function and they have denied the request as an extrajurisdiction.

Talked to Al Klement on fall out pattern for planning liberation path.

Talked to Wayne Hiatt about Alato's financing as explained in Ed's note.





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Locality Elmer Date July 23, 1958 Wed.
Personnel Champion, Catal, Smellon Weather Fair.
Water conditions _____

Radiation level(s) _____

Operations:

Dr L Tuttle, Hawaii and acting manager L.R.B. and assistant were at E.M.B. taking inventory and working on the needs of the laboratory. I suggested:

1. Some coarse sand for in front of the building, to reduce the sand tracked in.
2. Replace roof clamps torn loose by the slacks of the spring series.
3. Re-finish the doors to the refs. & refrigerator to reduce rusting.
4. Clean out the drain line from the outside tanks.
5. Dr Tuttle's records show 1 ref., 1 scaling unit, a box for a centrifuge, etc. that could not be accounted for. Can any of you help?

Mr Kirk of E.E.H. continued to work on the gamma spectrum unit. He brought a micro switch on the scale that had been replaced with a foreign replacement, was sticking and should be replaced. The switch was removed and will be hand carried back to the R.B. for ordering a replacement. He also replaced a number of wash tubes.

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Locality Perry Island & Kapingimangi Date July 24, 1956

Personnel Champion Weather _____

Control & Paulsen to Kapingi Water conditions _____

Radiation level(s) 1.2 mr

Operations:

Control and Paulsen went over to Fred last evening and stayed for an early take-off. Had breakfast at 0330, short time 0415, departure at 0450 in SA-16. Smooth flight to Kapingimangi where we arrived at about 1000. Kapingi is an atoll that resembles one of the southern atolls like Tarawa, Majuro, etc. Every available island and islet is covered with coconut palms for the production of food and copra. The King's son, Wilson, who also is the island medic met the plane and went with us to the major native village on another island about 5 miles distant from the weather station. The trip over in an open boat was interrupted by an accident when the rifleman running the boat put it up on a coral head and broke a pin.

The chief Likent, is a very polite ruler and after a formal plane we had permission to photograph some of the village scenes. The 4000 people on the atoll seem to be a very happy lot and much more energetic than the northern Marshallese.

We collected coconuts, fish, snails, clams, sea cucumbers, etc. for returning to the plane and the start of the return trip to Pano. Arrived at Pano about 1900 our time - less than for first time.

Applied

28	April	Yucca	(1445)	
5	May	John	(0615) F	
12	"	Fl	(0550) B	
12	"	Bulb	(0615) F	
13	"	Fl	(0630) F	
15	"	Fl	(1230) F	
20	"	Fl	(0515) F	
22	"	Fl	(0515) F	
26	"	Fl	(0515) F	
27	"	Fl	(0515) F	
30	"	Fl	(0515) F	
31	"	Fl	(0515) B	
3	June	Fl	(0545) F	
4	"	Fl	(0515) F	
5	"	Fl	(0530) B	
15	"	Fl	(0530) B	
15	"	Fl	(0530) F	
18	"	Fl	(0530) F	
20	"	Fl	(0530) F	
21	"	Fl	(0530) F	
22	"	Fl	(0530) F	
23	"	Fl	(0530) F	
24	"	Fl	(0530) F	
25	"	Fl	(0530) F	
26	"	Fl	(0530) F	
27	"	Fl	(0530) F	
28	"	Fl	(0530) F	
29	"	Fl	(0530) F	
30	"	Fl	(0530) F	
31	"	Fl	(0530) F	

24 25 July Cedar 0530 S.
26 6 " Dogwood (0630) E
27 12 " Poplar (1800) B
28 18 " Pinus 1100 E
29 22 " Juniper 1620 B
30 23 " Alnus 0930 E
31 26 " Pine 0815 E
32
33

ITEMS ON INVENTORY TRANSFER LIST - COULDN'T LOCATE

- 1) 1 ea. Meter, Radiation Monitoring Juno high Range SN 108
- 2) 4 ea. Meter, Radiation Monitoring Juno Regular; SN 89, 59, 103, 46
- 3) 4 ea. Meter, Radiation Monitoring Nuclear GM; SN 275, 300, 418, 475

6
GEORGE SHIROMA
DEPT. OF ZOOLOGY & ENTOMOLOGY
UNIVERSITY OF HAWAII
HONOLULU 14, HAWAII

11-5

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Locality Elmer & Panope Date July 25, 1958
Personnel Champion Weather Fair
Centril & Donaldson Water conditions _____

Radiation level(s) _____

Operations:

Champion at F.M.B.I. Tuttle & assist finishing up inventory and ready to depart. no plans. Spray painted the doors of the refrigerator and deep freeze.

Collecting at Panope always a hard job because of so many side interests, was organized by Mrs. Hedges, Dist. Admin. The natives were instructed to bring in fish and we purchased, a yellowfin and skipjack tuna and a number of other fishes from the local fishermen. They had a wide variety of fish for sale and according to Hedges the fish were all eaten and considered safe, at other a little dangerous the same species would at times be considered unsafe to eat.

Mrs. & Mrs. Ed Swanson helped us collect the rest of the water forms and the Agr. Ex. Station again furnished the plant samples needed. A very destructive hurricane passed over Panope last Jan. the evidence of the destructive force of the wind was in evidence.

Mrs. & Mrs. Hedges are leaving Panope this week to travel some before relocating in Liberia on their next assignment. Ed Swanson is now in charge of Cocoa farming in the Trust Territory and will maintain a propagation plot at the Agri. Station but will also spend much time on promoting the Cocoa production.

145

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Locality Elmer Date July 26, 1958 (Sat)
Personnel Donaldson, Cantrell Weather hot, no wind
Champion Water conditions calm

Radiation level(s)

Operations:

Donaldson scheduled to depart Elmer to
Fred on way home at 0930, but MATS
had no planes to take personnel out.
Doc is re-scheduled for tomorrow morning.

A great portion of the day was spent
cleaning up the lab. Some painters sprayed
the deck and fuselage and consequently
covered the lab with a fine coat of white
paint which required a great deal of
scrubbing to get off.

The ^{later part of the} afternoon was spent resting from
Ponape trip. Both Donaldson and Cantrell
were exhausted. And the heat here
made it almost unbearable.

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KB

Locality Elmer Date July 27, 1958 (Sun.)
Personnel Donaldson, Cantril, Weather hot, mild wind from west
Champion Water conditions calm

Radiation level(s) normal - Pine 0830 E

Operations:

Dr. Donaldson departed Elmer for Fred at 0930 on way home.

The lab was dirty again by 0900 with dust and sand but no effort was made to clean it as contamination may follow in next 24 hours and then the whole lab will get a scrub down again.

It was learned that the U.N. test was officially canceled (Paxon) and Wayne Hiatt said Donaldson had been informed before he took off. Hiatt also said there maybe a chance both Silverstein and Aloto trips could be or would be moved ~~off~~ up. Al Klement said he would inquire for us in the morning.

Don: The spectrometer "ink tape" is OK but the machine as a whole is on the blink.

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KB

Locality Elmer Date July 28, 1958 (Mon)
Personnel Contr. 1, Champion Weather hot - no wind at all
Water conditions calm - glassy

Radiation level(s) normal

Operations:

The whole morning was spent scrubbing down the laboratory in preparation to starting the processing of Ponape and Kapingamaranga samples.

William in T-4 Supply requested we soon round up all equipment and items we want used in next month or so and turn them in as he is leaving in two weeks or so.

Al Klement called to say that there seems to be considerable pressure from military brass to move Silverstein up as far as Aug 1. We told him we could make no decision but that Aug 1 was probably too early for us to get ready. He said he would try to reach Donaldson before he left Hawaii and would inform us how what was going on. THIS PLACE HAS DEVELOPED A GOOD CASE OF MASS HYSTERIA. THE GENERAL HAS SNAPPED HIS FINGERS AND ALL THE DOGS ARE JUMPING. THOUGHT FOR A MINUTE TODAY THEY WERE GOING TO SHIP US OUT TO SEA ON THEIR OWN. THEY ARE EXACTLY CONVINCED THAT THEY SHOULD WAIT UNTIL DOC ANSWER KLEMENT'S WIRE.

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70
RB

Locality

Date

28 July (CONT.)

Personnel

Weather

Water conditions

Radiation level(s)

Operations:

7.1, 7.3, 7.5 ALL SEEM TO BE WORKING INDEPENDENTLY ON THE PROBLEM SO WE GET CALLS IN BATTERIES. AS WE SEE IT, THE GENERAL WANTS TO DIS ESTABLISH THE DANGER AREA. THIS REQUIRES OK FROM DBM SO THEY WANT 1ST LEG OF SURVEY RUN "RIGHT NOW". 7.3 HAS PLACED A DD ON STANDBY FOR THIS TRIP WHICH THEY EXPECT TO HAVE DONE IN A WEEK OR 10 DAYS AND THEN EVERYTHING IS TO BE REMOVED FROM THE DD AND THE SILVERSTEIN WILL THEN BE USED ON SCHEDULE TO COMPLETE THE SURVEY. SOUNDS VERY NAVY TO ME BUT LIKE I SAID THE GENERAL HAS SPOKEN SO EVERYONE SNAPS TO.

Help!!

Wme

INDEX
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LABORATORY OF RADIATION PHYSICS
SEATTLE, WASHINGTON

200.0.

KB

Locality ELMER Date 29 JULY 1958
Personnel CANTREL & CHAMPION Weather FAIR
7.1, 7.3 & 7.5 Water conditions CALM

Radiation level(s)

Operations:

The morning and part of the afternoon was spent processing Kapingamarangi and Ponape samples. There were an ~~awful~~ awfully lot of them. This morning some confused military man called asking where Kelly and Ed were. The last time he heard they were in Kwaj. and that was February. He was getting worried as to where they were. He was afraid they were lost. I assured him that both Kelly and Ed were in Seattle, safe.

Al Klement called and asked what Doc's home address and phone number is. He is going to try to call Doc tonight or tomorrow through the ham station.

J.C.

24
-21

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Locality Elmer Date 30 July 58
Personnel Conrad & Champion Weather fair, normal
Water conditions normal

Radiation level(s) normal - Bkgd.

Operations:

We finished up the Torope samples and cleaned up the laboratory again. Al Clement called to say he had called Doc and was awaiting an answer to the problem, by wire. We have a new addition to Lab of Radiation Biology. A cat - named "CAT" Bick picked him up in the compound and the animal seems to like it here very much. It sleeps all the time - at least during the day. We hope he will make himself useful in combating the mouse problem. MORE MICE SCURRYING AROUND THE COMPOUND THAN WE EVER HAD HERE. EVERYONE WANTS SOMETHING DONE RIGHT NOW. WE ARE BEING AS HELPFUL AS POSSIBLE UNDER THE CIRCUMSTANCES.

ST
-P.1

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Locality ELMER Date 31 JULY 1958
Personnel CANTRELL & CHAMPION Weather HOT w/occ SHOWERS
Water conditions CALM

Radiation level(s) NORMAL

Operations:

WORKING IN LABS IN THE MORNING. WENT DOWN TO THE ROCKPILE TO TRY AND RESTOCK FISH POPULATION IN TANKS. CAUGHT A FEW SMALL GROUPERS. RECEIVED A CALL FROM CMDR. WENDALL THAT COLETTE DD 730 WILL BE AT THE DEEP WATER PIER AT 1300. ALSO RECEIVED INSTRUCTIONS FROM FRANK RE INSTALLATIONS ABOARD SHIP. WORK IS PROGRESSING WITH THE ABLE ASSISTANCE OF H&N WHO HAVE BEEN GIVEN A RUSH TYPE WORK ORDER ON THIS JOB. BOTH PLATFORMS WILL BE MOUNTED PORTSIDE AFT BUT DUE TO WEIGHT DISTRIBUTION PROBLEM SKIPPER WANTED THE TANK ON THE STARBOARD SIDE.

UNIT
CNA

13