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SEATTLE, WASHINGTON

FGC
KB

1120

Locality Elmer Date 22 June 58 DS
Personnel Cantrell, Champion 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 Tb^{161} only)

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

JL

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

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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 foraged 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, merrerschmidia, socruala). Five sea cucumbers were also collected and subsequently dissected and dried.

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

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FGL
PRO

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

Radiation level(s)

Operations:

Continued to counting of NKT samples.
SPECT. STILL RUNNING PERFECTLY - MAX.
DRIFT IS ABOUT 1/4 OF CHANNEL.
AT 1630 HOURS WELANDER, CANTRIL - CHAMPION
LEFT BY 14:00 FOR DEEP CHANNEL. THEY
OBTAINED 30 ml of NKT (30 ml. MAIL).
Also continued to process samples
collected at Henry.
Col GREEN CALLED AGAIN ABOUT THE
BIRD SITUATION AT JOHNSTON. THEY ARE GOING
TO TRY A MIST WATER SPRAY METHOD OVER
SAND IS. THIS ^{will be} SET UP SOMETIME BETWEEN
NOW AND 3:00 P.M. THEY REQUESTED ^{one of} TWO
OF OUR PEOPLE TO OBSERVE THE TEST AT THAT
TIME

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6
13
84
FOL

Locality Elmer Date June 25, 1958
Personnel Wicks, Cantrell, Weather Normal 87°
Champion & Weland Water conditions Normal

Radiation level(s) _____

Operations:

Painted 6 more boxes for shipping; ran V-spectra on P-41 material (Plankton haul from Deep Entrench); packaged plant material from Henry; cleaned up the aquarium area.

Left at 1300 for Vera by ~~taxi~~^{H19}. Dived in lagoon on reef about 4' deep. Collected clams, algae, sea cucumbers, sea urchins, etc. Altho coral trees are present, only a few corals were present - too high for auto-ventures. 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 MAJ. MANACE HAS RETURNED TO THE STATES AND HIS REPLACEMENT KNOWS OF NO WAY TO GET THE PLOTS YOU WANT. COME

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RP
FOL

Locality Elmer Date June 26, 1958
Personnel Wesley, Cantrell, Burch, Donaldson, Champion, Helander Weather Normal but with high cum. clouds setting in about 4:30
Water conditions Normal water.

Radiation level(s) _____

Operations:

Dean Henry Burch & 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 section 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.

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

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5B.

706

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

Radiation level(s) _____

Operations:

Plankton and fishing trip underway at 9:00 am for deep
passage and points north.
Laid on off atoll traps ^{for future date} and trip to Leroy
for tomorrow

Packaged more samples
Burd & Co. brought in two jades & 2
groupers caught near Cement Barge.
Plankton haul made west of Japton.
& proceeded to drying

George Dennis

Office of Information

Albuquerque Operations U.S. A.E.C.

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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KO.
FOU

Locality Elmer Date June 28, 1958
Personnel Donaldson, Burd, Weeks Weather Normal - Positive winds
Cantrell, Chapsion & Water conditions "
Welander

Radiation level(s) Elder &

Operations:

Up early.

Packaged following for mailing:

Soils - Henry I. June 23, 1958; Umbrella Target Sludge

Plants - 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 plex film box
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, 356-371

372-390, 391-400, 401-411, 412-447.

Rat Tissue from Janet April 28, 1958

Birds from Henry #4.

[Numbers missing include tissue not sufficiently dry for shipment]

Discussed program "P" with Walt Gibbons. Dan Burd.

took part in the operations discussion and for staff
function developed with a broad program rather than monitoring only.

Trip to Levey 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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115.
• FGR

Locality Olmer Date June 29, 1958 (Sunday)
Personnel Burd, Central, Champion Weather Fair
Webb, Nilsen & Donelson Water conditions _____

Radiation level(s) Oak

Operations:

Up early to open up the lake and get on long feet, etc.
No damage except some wet feet and a few broken dishes.
Fish (Trachurus t. t. t.) 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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1958

David

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KB.

FOL

Locality ELMER Date 30 JUNE 1958

Personnel BIRD, DONALDSON, WELANDER Weather GOOD

WEEKS, CAMPBELL, CARTER Water conditions 1/2 SURF ON REEF

Radiation level(s) _____

Operations:

BIRD and DONALDSON DEPARTED FOR UCTAC AT 0800. REST LOCKED IN CAMP. WELANDER MAKING PREPARATIONS TO LEAVE. PACKAGED SOME SAMPLES TO SHIP WITH BARRACUDA 11210. INCLUDES PLANTS NOS 33, 34, 35, 36, 37, 38, 39, 40.

BIRD & DONALDSON LEFT FORD AT 0900 IN AIR FORCE 95-16, WENT BY WAY OF (Bikini) FROM THE AIR TO ISLAND LOOKS LIKE A SAND SPIT WITH INTERSPERSED SECTION, NO GRASS, NO CORALS. FROM BIKINI ON WEST TO RONGELAP TO AIR DROP & REST OF MAIL. TURNED SOUTH FROM RONGELAP ATOLL TO UCTAC ARRIVING AT 12.15. AFTER LUNCH AT THE WEATHER STATION LT ELLIS INTRODUCED US TO THE "CHIEF" OF ENAJIWA, THE INTERPRETER LT STEVEN AND THE NATIVE PASTOR JOSEPH. H-11 RESIDENT ENGINEER. RICHARD GROSSIGER WAS VERY HELPFUL. FISH WERE COLLECTED FOR A COAL HAD JUST WEST OF THE CAMP. THE THREE NATIVE MEN HELPED COLLECT FISH, WE WERE JOINED BY A DOZEN SMALL BIRD 5-7 YEARS OF AGE THEY SWIM LIKE RIBS AND LOOKED LIKE SEALS AS THEY POPPED UP OUT OF THE WATER WITH A GREAT FISH IN THEIR MOUTHS. AT THE SURFACE THEY FLIP THE FISH ABOUT AS IF WITH THE TAIL AND EAT IT, SKIN, GUT, HEAD, THE WORKER COLLECTED MOST OF THE SAMPLES EXCEPT WE COULD NOT FIND A CLAM. DEPARTED UCTAC AT 3.15 ARRIVED AT FORD AT 5.05 P.M. AND ELMER AT 5.45.

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Locality: Elmer Date: July 1, 1958
Personnel: Melander - Beard, Champion Weather: Clear
Condit, Donaldson Water conditions: Average

Radiation level(s) 1.7 m

Operations:

Melander departed from Perry at 0930 on his way to Honolulu - and after a week of playing tourist - on to Seattle.

Dean Beard made the rounds of the check out places and purchase places in preparation for his expected departure tomorrow.

Beard & Donaldson visited the Alote and talked to the mate, a Mr. Johnson. The Alote needs a good deal of cleaning to get it ready for a laboratory ship.

There are plenty of tanks, with a space for 24 men over the mid-ship section that could be used.

This section may be an excellent area for the crew quarters, wardroom, and officers quarters.

The well-deck of the Alote would serve well as a working area. A tarp could be fastened over the well deck to provide shade and protection from the rain.

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

Beard & Donaldson were invited to a dinner party at 114 with A.F.C. and H.M. "Sullivan".

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Fool

Locality Pony Island Date July 2, 1958

Personnel Burd - Champion Weather _____
Carlton, Marks & Orskov Water conditions _____

Radiation level(s) Siquia - E

Operations:

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

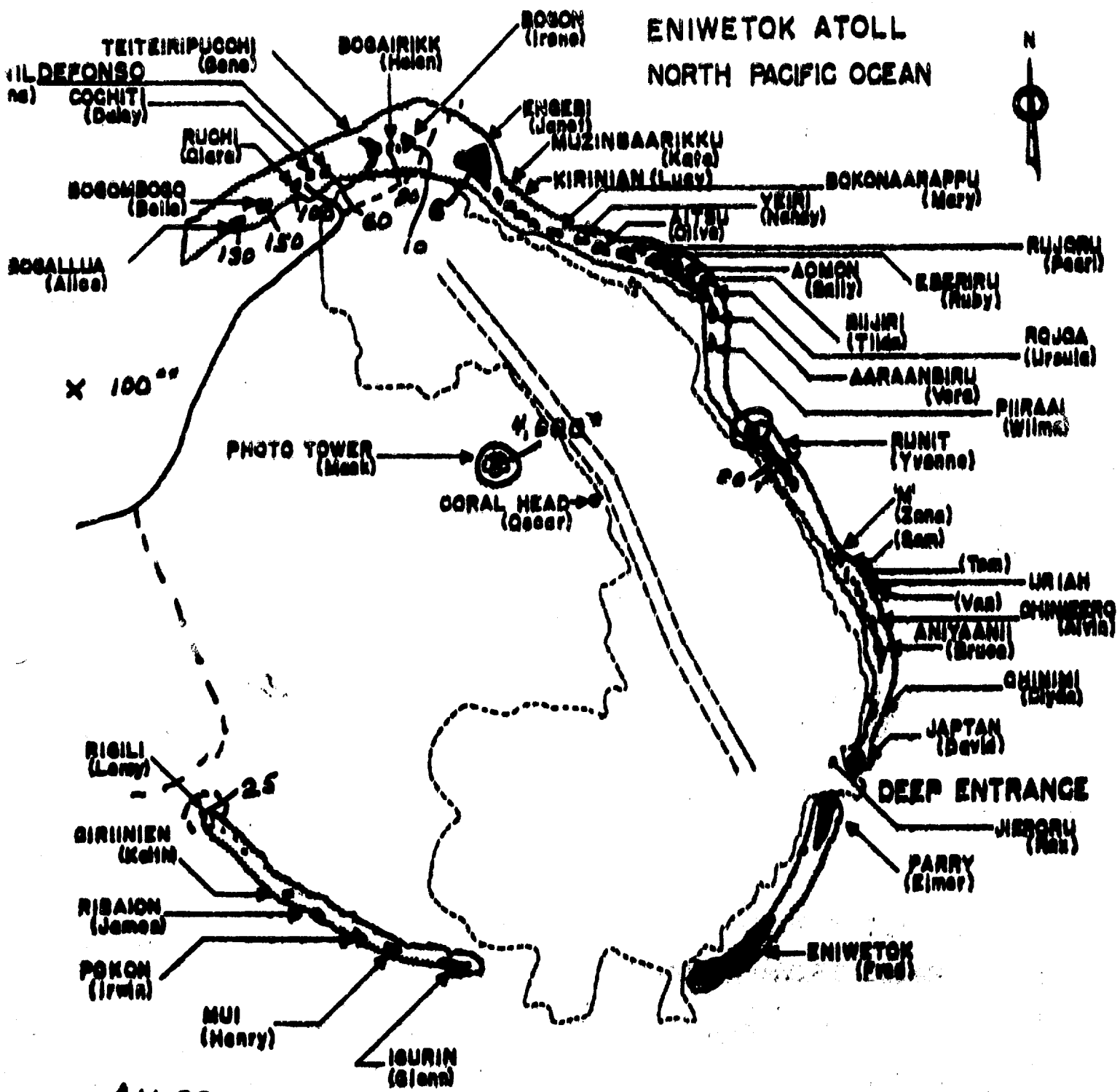
Rad. Safty survey trip around the atoll was organized by maj Gordon Jackson. T.R.D. was asked to go along to observe the color in the water. After passing the "Oak" crater near Alice the usual cloud of fine material was observed in the water. From the crater to about one mile south of Lacey a band of 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 mc over the reef and 500 to 600 mc over the "green streak" on the lagoon side of the reef.

A stop was made at Lacey 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 were 25' or more apart. The boobies were near the center of the island in the bird nesting area are taken or uprooted. The loons on the West side are banded on the trees surrounding

FGL

ENIWETOK ATOLL NORTH PACIFIC OCEAN



ALL READINGS IN MINS.
GROUND LEVEL, AS OF OBS'
HRS, 2 JULY 1952
* 1415 HRS 2 JULY
* * READINGS AT 200' ALT.

———— FULL RANGE
----- LIMITED RANGE

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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 mc. (Cedar-B)

Operations:
DR. DONALDSON & WEEKS DEPARTED FLED 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).

Trip to Kusaie in the Air Force ^{UNIVERSITY} 5A-16 was
a wonderful experience. We departed from Ford at 0700
and arrived at Kusaie at 0945. Traveled with Capt
John Kittering and Chuck George. Mr. Hedges of Pooka
was also a passenger. Had lunch at the air base
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
swimmers. The fish bill was almost instantaneous
much better than we get with dry-roast.
A beautiful red and green colored surgeon fish
made up the bulk of the sample. We should
see these fish for the collection and don't
think we have them - at least not many.
Spent about 30⁰⁰ on samples and lost
note it can be considered an expense.

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Locality L. Line Date July 4, 1958 (Friday)
Personnel Conrad, Champion, Weather Clear.
Wicks, & Swalkem Water conditions _____

Radiation level(s) _____

Operations:

Processing of the samples collected at K usine
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.

20

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FOL
12
P123
K5

Locality Elmer + Leroy Date July 5, 1958
Personnel Central, Champion Weather showers
Donaldson & Wuts Water conditions _____

Radiation level(s) 1.0 mR/hr

Operations:

Don Wuts checking out in preparation for going home
Donaldson in conference with Wyncoop, Sanders and
others on the Rangely survey and the use of the
alots. Mr Wyncoop will press for the use of the
alots with out change to our program for the
August trip. The best date for the Rangely
Ecology Program will be \pm Aug 18 to Aug 30.
Food was received from Al on the Silverstein trip
the ship is due at Puywep Sept. 1 and can
commence on the survey as soon as equipment
is ready.

Commissioner Graham and Mr. Neilson A.F.C. visited
the Laboratory during the morning. The Japanese situation
found much of the conversation I suggested that better
relations would result if the useful aspects of
the testing program to applied fishery were stressed.
The Commission was very much interested in the proposal.

At 130 Geo ^{Barnier} Brown, Central, Champion and Donaldson
went to the Oak water to photograph the "green
streak". The water was not as intense to day as on
July 2. Photos were taken of the reef the flat
and from damage on Leroy. The great number of
sick fish observed on July 4 have either recovered
or died. A count of 241 dead birds was observed
on one sand spit. Plankton and a clam shell were
obtained.

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H.W.
FGL
P.S.
D.H.
1958

Locality Elmer Date July 6, 1958 (Sunday)
Personnel Carlton, Champion Weather Showery
Wicks + 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.

1958

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File
24
11

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

Radiation level(s) _____

Operations:
Dr. Wubs left Elmer at 0930 for Fred and the trip home.

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

Processed water from Leroy, had field day cleaned up tanks, raked the yard, trimmed dead branches from the shrubs & palms, etc.

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

- A. W. Klement for DBM.
- Cdr. J. H. Wendell - F.F. 7.3
- Eric W. Yocorp - A.F.C. 7.5
- Cdr. T. J. Martins T.F. 7.3
- Cdr. K. M. Gustafson Hdq.
- Col. F. 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 included
 - Sept 1 & 2 - installation of equipment on Silverstein
 - " 3 & 6 - survey of danger area Cruise #1
 - " 9 - At Eniwetok to fuel & supply for Green
 - " 8 - 14 - trip Eniwetok to Green
 - " 15 - 20 - return trip to Eniwetok
 - " 21 - unload ship

3. Operational Plan will be worked out within 2 weeks with 723

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

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10
7
24
1958

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

Radiation level(s) 1 mR to 2.5 mR maximum

Operations:

Spent entire day on plankton tows. Left Elmer at 8:00 am and returned at 5:00 pm. Collections were made at five stations with two nets fished at the same time. Samples were preserved in 95% alcohol. Sample "A" from me 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 mile off Elmer
"	" 44	- 1115	" 1135	1 " " Leroy
"	" 45	- 1305	" 1325	1 " " Clara
"	" 46	- 1500	" 1520	1 1/4 " " Yvonne
"	" 47	- 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 Trava to request assistance and permission to collect our samples in the Crown Colony. The trip to Trava is scheduled for Friday and Saturday.

JP

DR DONALDSON

24
K3
7

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

Ernest Nykoop, Chief, Eniwetok Branch
Eniwetok Proving Ground

SHIP SUPPORT FOR ECOLOGY PROGRAM AT KONGALAP

SUBJECT: ENE:EN:K-2603

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

Based on our present concept of the type of support required for
your proposed Ecology program at Kongalap, it appears desirable
in the best interests of the Government to consider the assignment
of "ALOU" (LMS-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 "ALOU"
has been in service at NEU reflects something in the order of
\$250.00 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: V. B. White, FOD, ALO
AEC Office, Honolulu
Chrono
Central

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FOI
~~SECRET~~

REQUEST FOR SUPPORT FOR PROGRAM 40 (RADIATION BIOLOGY)

OBJECTIVE:

Radioecological-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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MC
• JGL
R. J.

Locality Elmer Date July 9, 1958
Personnel Centil, Champin & Donaldson Weather Showers
Water conditions _____

Radiation level(s) _____

Operations:

Packaged material for shipment to h.R. B. Package clean
-up most 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, 534-537
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 Rongelap 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
Rongelap trips be worked out as a D.B.M. request
for support to 75 (Alb. 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
Alota is for 12 men, include Ron and Tom
in the party for they will be back in time to
go on the Silverstein's last and now scheduled for Aug 25-28+

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FOR
OUT
Call
1-1

Locality Clines 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. 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 1/2 meter plankton net, using 12 feet of the
remaining supply of Casco Tillar Rope. This leaves only
enough wire 16' for the repair of one more net. Joan
please order another spool of wire like the enclosed sample
from Pacific Wire Rope Co.

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Handwritten notes:
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RF

Locality Elmer Date July 11, 1958
Personnel Catal, Chapman and Weather Shower
Rinaldon Water conditions _____

Radiation level(s) _____

Operations:

Counting specimen samples collected on recent tour July 8th.
Washed a mountain of dirty dishes from the last collection
series. The drying of masses of plants, fruits, etc. in
glass dishes is a poor procedure, not least 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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SJ
RW
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 Eniwetok 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 ahead 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. B. Mackenzie & Mr. C. Morris also attended. Nease requested that Mr. Mackenzie and a new man get to be secured off to Kapinglap with the Commodity survey. I replied - if they are at Eniwetok for the departure of the ship, leave to Aug 12, we will take them along. Arrived at Tarawa at 1:30 pm and loaded into a "kubur" for the trip to the weather station. Capt. Bill Bond is in charge of the station again.

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ST
am
12/1

Locality Amor + Tava Date July 12, 1958
Personnel Artur - Clark Weather Rain at Pory - beautiful at Tava
Champion & Smullen Water conditions Rain

Radiation level(s)

Operations:

Central Counting Preamplifier P-45 - 1 P was completed and P-1
filtrate started.
July 11 cont.
Smullen conferred with M. & Bernacchi, Resident Commissioners
Tava, Albert and Ellis Salomon. Mrs & 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 search to get the collections in the time remaining.
Fish was collected by paring around a sunken boat that
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 12 Up at 5:30 am. a bit to eat and the start back
down the island to the air strip. Capt Bond, Champion
and Smullen started out ahead of the main party in
a skiff to go to Bishop from Betic Island. Mrs
Bernacchi had fish, clams, bread fruit coconuts etc
ready for us. After a cup of coffee the wild
ride down the sand spits, 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 Elora. Part of the fish collected
at Tava were preserved for shipment
to the College of Fisheries for Art's class use.

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SH
see
see
PC
1/1

Locality Olney Date July 13, 1958 (Sunday)
Personnel Condit, [unclear] Weather [unclear]
[unclear] Water conditions [unclear]

Radiation level(s) Paplar (1500-13) yesterday

Operations:

Traveling up canyon and 6.5 to go. Very strong reports yesterday afternoon.
Rund had all morning background level of rain. 2 ± m. Ed Matt running rain water sampler.
Condit busy with analyzing of paplar sampler collected July 8, 1958.

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Bill
 52

Locality Alaska Date July 10-19

Personnel Bill Weather clear

Water conditions good

Radiation level(s) 1000
 (Scavenger count at 1000)

Operations: None

To see further on Alaska samples
 checked up laboratory and sorted bank type material
 from report - at the laboratory components of
 the amount of contamination.

Received word from Janet Hulp that we had been
 bumped from tomorrow scheduled flight to Nupigamooj
 and Pampu. Rotation of various other 180 days
 T Don stations in this area.

Required flights to
 Utsiak - Pampu, July 10 for immediate control
 Utsiak - Sat " 19 " " " " Champion
 Nupigamooj & Pampu from Utsiak July 22 & 23 - immediate control

Don - Don says that the "old tape" for the timer
 of the gamma spectrometer is worn out & he had
 checked here and can't find a replacement. Better
 order a new one and send it out at once.

Packaged preservatives and other material as listed

- W-1 MFP P-31 preservative P-39 preservative SS
- W-1 Untreated P-37 PLK P-39 PLK
- W-1 (C₁₄)² P-38 PLK P-40 PLK Subsample
- 2.5 (C₁₄) (radioactivity) P-38 PLK P-40 Preservative SS
- Algae = 30 P-38 MFP P-40 MFP
- Utsiak Target sludge P-39-2 MFP P-41 LP
- P-37 MFP P-38 MFP SS P-42 Preservative
- P-45-LP; P-45 substrate; 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 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.

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 (Donalson)
- 1 - CJTF 7 (Info)
- 2 - TG 7.5 (Info)
- 2 - Y&R


J. H. WENDELL
J-3
Plans & Operations

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MC
JH
KB

Locality Elmer Date Jan 15, 1958
Personnel W. L. ... Weather Clear
Water conditions

Radiation level(s) 2.5 x 10⁻⁵

Operations:
Continued work on biological culture collection for Dr. John Linton. The cultures inoculated will be forwarded to Linton in today's mail. A total of 29 flasks were inoculated. The list of organisms is included with the cultures.

Conference held with Major Hiatt, Capt. ... and ... on the Atoka schedule and equipment needs. In addition to the work order signed by the Mendell ... for the ...

- covering items:-
- 1- small boat (14'-16') with outboard motor.
 - 15 folding cots for sleeping on deck if it is to be used 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 in the well deck about 12' x 3' to serve as a laboratory bench.
 - 1- 4 x 4 inch ... for use on ...
- ... the ... was not requested for it was felt that to accommodate ... the ship it ... could be more useful.

W. H. ...
July 1958

The Word

Locality Elm

Personnel 1 alt

Bikini is
Circle



Radiation level(s) 1.0 mR

Operations:

Obtained gamma sample by neutron detector, cleaned
brush, found base and built the pit which Davidson and
I collected next to Ullrich to collect.

Davidson and I left Elm at 05.40 by water taxi
for Ford in a torment of rain. Left Ford at 06.30 by
SC-16. The field was so flooded that it was a good
thing to have an amphibian plane. After leaving Ford
we flew almost due east, passing south of Bikini,
over the middle of Woyah, over the southern portion of
Rongok and on to Ullrich landing at 11.50. After the
usual check with the Magistrate we started
to collect. Sam collected fish, algae, and other
land plants. Water was so high I had to stay out of the
water for a few days because of a second 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 Ullrich, 8-8 over Rongok and 8-16
while over Rongok. My part of presence with Davidson
& hope they turn out well.

Edyappu also came and we no problem with him
- Kimmul, at the time had funds to pay him and
some can get him in the 12 man limit.

W. H. ...
the next year out to Ed as a work
of better when that I said last year, it be
... have Tom and up another batch of
- in a work of 100 lbs.

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Locality Elmer & Panope Date July 22, 1958
Personnel Champion - Central & Donaldson Weather The worst possible - rain
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 Panope & Kapanji. It rained and the wind howled all night - we were up at 0300 had breakfast waited till 0400 - 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 Elm Date Aug 12, 1952

Personnel T. T. T. & others Weather _____

in London Water conditions _____

Radiation level(s) 0.8 m.

Operations:

Ch - Mr. M. Brantley, FBI Operation called to tell us that they request for support for the Douglas Aug 12-24 trip. They requested their section T. T. T. 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 clear 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 Uthick collections.

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PR
PRE

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

Radiation level(s) 0.800 - 1 m.r. (Pisonia - E - 0.100) 15.00 - 37 m.r. on survey
Operations: meter and 1400 Beta counts per minute on the 8 scales

Spent morning packing samples, trying to get the times for the gamma scales ^{fixed} - without luck.
Helped Ed Heatt with water sample for radiation assay.

Received word from Al Seymour on status of Bonyeap trip. Fixed all that the trip is a full function and is scheduled for Aug 12 - 24 inclusive. Also sent word to Ed Heatt with instructions to pass on by phone all the planning notes that have been included with the logs.

Spent afternoon in Conference with:
Cdr. Wendell - 7.1
" NE Byrne - 7.3

Al & Clement 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 data - nor does anyone with much detail. - It went that way, is the usual way we get *

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

Locality Olma + Ujilang 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 shined up the place. Every thing is spic and span.
Champion + Donaldson left by SA-16 for Ujilang 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'Omene) plants and crabs. Two small coconut crabs were found in a pit that had dug by the Japanese. L'Omene said that most small crabs - coconut - are found in moist places among large rocks. He said that the large ones are under the board of the coconut trees.

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

Left Ujilang 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 Keith still trying to find some one to service the spectrometer.

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KB
720

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

Radiation level(s) _____

Operations:

Curtal went shopping over on Elmer, Champion played handball. Donelson spent morning organizing a talk for the local medical unit of the Tech 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. Lechasseur, USAF and Staff Surgeon J.T.F. Dr. Lechasseur represents General A.R. Luedicke, U.S.A.F. 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 Atote 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 D.B.M. to act on the salt and work out the binoculars to submerge

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Mc
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R30
11
110
11
25

Locality Clivic Date July 21, 1958 Monday
Personnel Champion, Cantil Weather Showers
& Dmellon Water conditions _____

Radiation level(s) _____

Operations:

Ed's letter arrived today, was good to get info on expenses, 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 heat lamp stands

7 lbs Conc. H_2NO_2

7 lbs Conc. H_2Cl

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 T crane samples to L.R.B. today

Plants 81-87, 88-90

Invertebrates 72-81

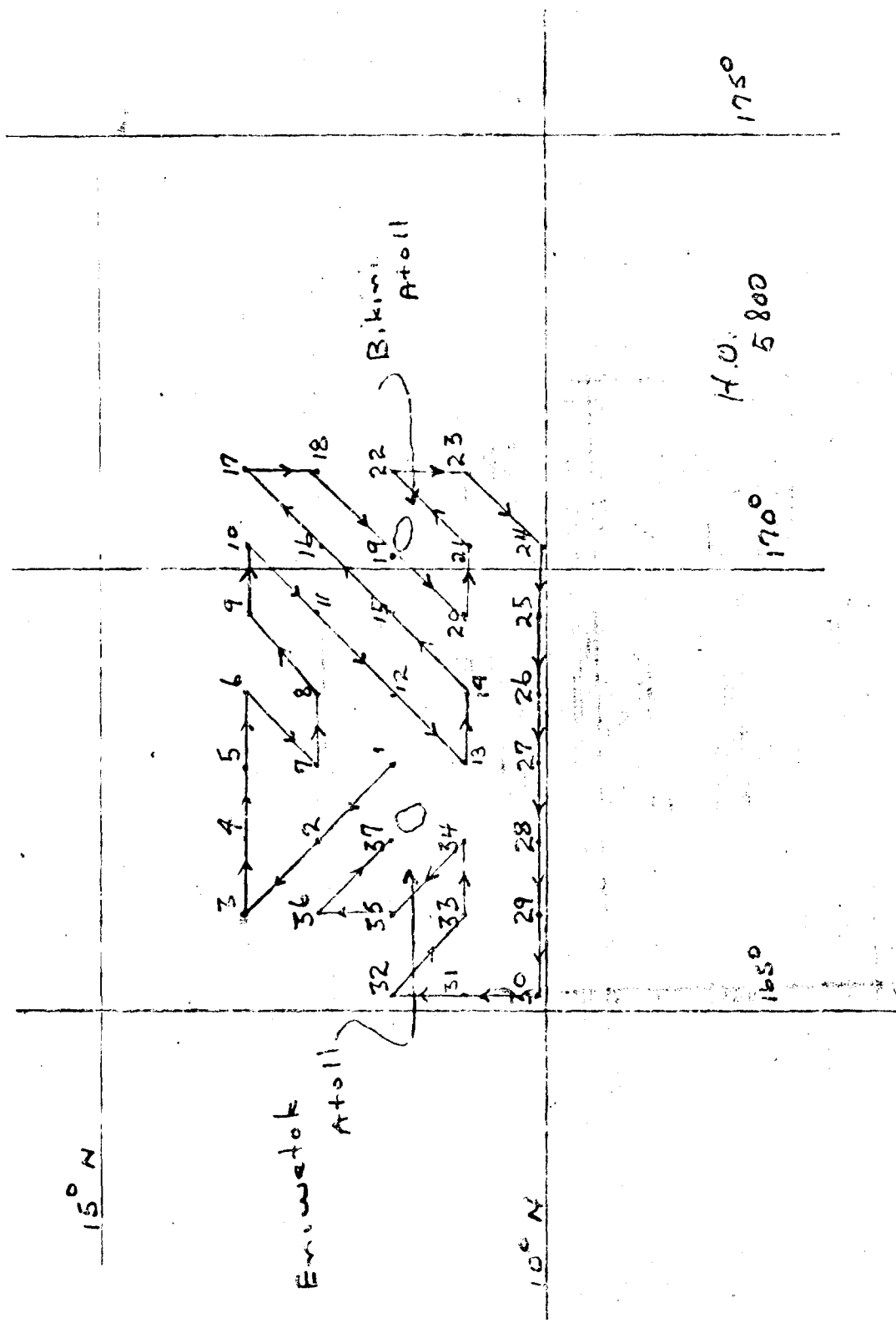
Fish 554-558, 559-563, 564-568, 569

Soil: T crane Corresponding logs are enclosed with samples

R.D. talked to Jim Lyden about Alota's request for short-wave radio expanded use - Jim said it is a H_2N function and they have denied the request as an extra privilege.

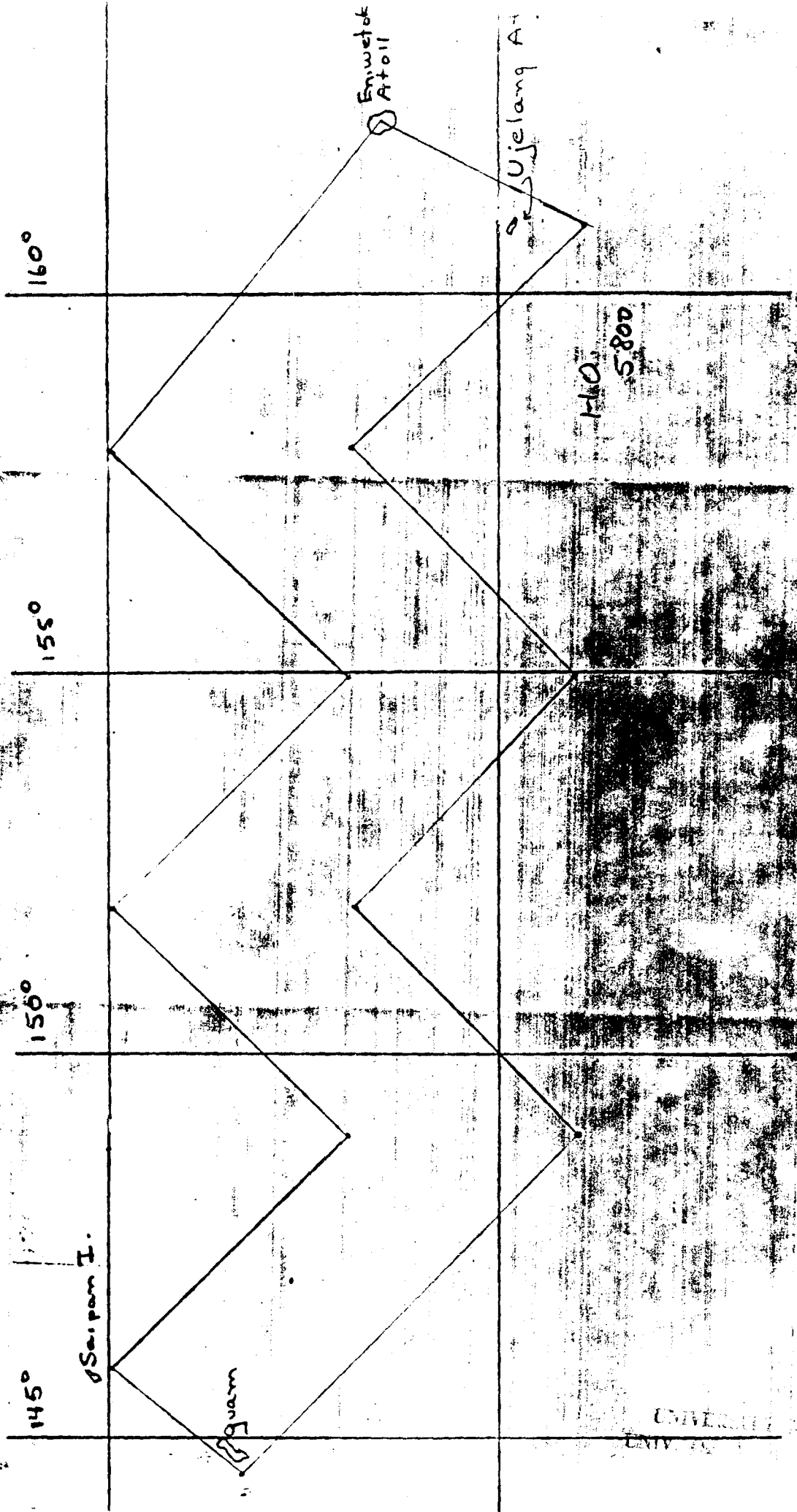
Talked to Ed Klement on fall out patterns for planning helicopter path.

Talked to Wayne Hight about Alota's financing as explained in Ed's note.



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145°

Saipan I.

Guam

150°

155°

160°

Eniwetok Atoll

Ujelanq At.

H.O. 5800

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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.M.B. and assistant were at E.M.B. taking inventory and sweeping on the inside of the laboratory. I suggested:

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

Mr Kirk of E.E.-E. continued to work on the gamma spectrum unit. He thought 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 Parry Island & Kapingimangi Date July 24, 1956

Personnel Champion Weather _____

Control & Daulden to Kapingi Water conditions _____

Radiation level(s) 1.2 mr

Operations:

Control and Daulden went over to Ford last evening and stayed for an early take-off. Had breakfast at 0330, shorting 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, Nukunono, 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 trained 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 airman manning the boat put it up on a coral hub 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 400 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 Panofo. Arrived at Panofo about 1900 our time - less than for direct time.

Reflected

28 April	Yucca (1145)	28 3 July	Cedar (0530) E
1 May	Acorn (0615) E	29 6 "	Dogwood (0630) E
12 "	Fir (0550) B	22 12 "	Poplar (1500) B
12 "	Cedar (0615) E	27 18 "	Pisonia 1100 E
13 "	Oak (0630) E	28 22 "	Juniper 1620 B
16 "	Maple (1230) E	29 23 "	Olive 0930 E
21 "	Cedar (0615) E	30 26 "	Pine 0815 E
22 "	Honey Locust	31	
26 "	Dogwood (0615) E	32	
27 "	Magnolia (0615) E	33	
30 "	Tobacco (1100) E		
31 "	Cypress (0500) B		
3 June	Cedar (0645) E		
7 "	Tobacco (0615) E		
11 "	Maple (0530) B		
15 "	Olive (0530) E		
15 "	Ash (0615) E		
18 "	Cedar (0615) E		
26 "	Dogwood (0615) E		
27 "	Cedar (0615) E		
29 "	Tobacco (0615) E		
29 "	Hickory (0615) B		
3 July	Magnolia (0615) E		

143

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

11-35

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Locality Olney & Panope Date July 25, 1958
Personnel Champion Weather Fair
Centil & 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 netters were instructed to buy 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 distance the same species would at times be considered unsafe to eat.

Mrs. & Mrs. Ed Swenicek 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 but 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 Swenicek is now in charge of Coca farming in the Trust Territory and will maintain a propagation plot at the Agri. Station but will also spend much time on promoting the Coca production.

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780.4
me
JF
KB

Locality Elmer Date July 26, 1958 (Sat)
Personnel Donaldson, Cantrel 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 Cantrel 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 (Pimon) 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 ~~up~~ 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 Control, Champion Weather hot - no wind at all
Water conditions catm - 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 EXHAUSTIVELY CONVINCED THAT THEY SHOULD WAIT UNTIL DOC ANSWER KLEMENT'S WIRE

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70
KB

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

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LABORATORY OF RADIATION PHYSICS
SEATTLE, WASHINGTON

701, 10.

KB

Locality ELMER Date 29 July 1958
Personnel CANTRELL & 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 Kapingamaringi 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.

84
-21
7.1

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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 Torape samples and cleaned up the laboratory again. Al Klement 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.

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ETA
31

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 PUSH TYPE WORK ORDER ON THIS JOB. BOTH PLATFORMS WILL BE MOUNTED PORT SIDE AFT BUT DUE TO WEIGHT DISTRIBUTION PROBLEM SKIPPER WANTED THE TANK ON THE STARBOARD SIDE.

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