

GENERAL  ELECTRIC

410889

November 9, 1956

Atomic Energy Commission
Division of Biology and Medicine
Washington 25, D.C.

Attention: W. B. Clams, Chief
Biophysics Branch

BEST COPY AVAILABLE

Dear Walt:

Marine Biological Survey of the Western Pacific - 1956-57

In reply to your phone call of November 7, 1956 we are enclosing a complete list of the samples received to date from Drs. L. R. Donaldson and R. R. Harry surveys. The information was obtained from sample labels or lists supplied by the groups responsible for collection of the specimens. In the future we will submit monthly reports of all samples received during that period. The absence of a report will indicate that no samples were received by the laboratory. Also as you indicated only apparent general trends with respect to fluid transport of radioactive substances will be included in the monthly progress statements.

Closer scrutiny of the analytical data confirmed my statements by phone that for the samples received to date there is no apparent correlation of the fluid transport of radioactivity with time since detonation. However, if the isochronic line of the North Equatorial Current (Geo. Vanderbilt Foundation map) approximate the actual time of travel, then no time correlation would be shown by the samples analyzed.

There are isolated cases of positive radioactive substances in biological samples from the Palau, Saipan, Guam, Yap and Ulithi stations. The sporadic pattern of these positive specimens throughout the entire collection period precludes correlation with time, and indicates a source other than fluid transport of debris from the "Redwing" series.

Also as indicated in our phone conversation the heterogeneity of the results obtained to date on Dr. Donaldson's samples precludes any conclusive statements as to patterns and trends at the present time. It appears that all analytical work must be completed before an accurate evaluation could be made.

Atomic Energy Commission

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We hope the enclosed data will give you the information desired as to the distribution, and frequency of collection. Please notify us if we can be of further assistance or if you desire additional information.

Very truly yours,


D. L. Reid, Supervisor
Radiological Chemical Analysis Operation
Hanford Laboratories

DLR:rar

Dist: W. D. Claus (3)
L. R. Donaldson
R. R. Harry
E. W. Christopherson
D. L. Reid
Records Center

Samples Received from the
Marine Biological Survey
Western Pacific 1956-57

5 Gallon Water Samples

<u>Date Collected</u>	<u>Location</u>	<u>Station Number</u>
6-14-56	*	*
6-14-56	Guam	1
6-16-56	Saipan	2-A
7- 2-56	Yap	4
6-28-56	Palau	3
7-12-56	Palau	8
7-18-56	Palau	*
7-18-56	Saipan	15
7-29-56	Guam	18
*	Guam	25
9-13-56	Saipan	24
8 or 9-26-56	Palau	21
9- 3-56	Ulithi	30
9- 1-56	Ulithi	31
9-26-56	Palau	37
9-12-56	Palau	32
8-29-56	Palau	22

Samples received at H. A. P. O. between the period 9-12-56 and 10-22-56.

* Information not available.

Biological Marine Specimens - 1956

<u>Palau</u>			<u>Palau</u>			<u>Yap</u>		
Date Sampled	Type	Number Samples	Date Sampled	Type	Number Samples	Date Sampled	Type	Number Samples
6-28	Snails	3	9-16	Livers	1	7-2	Snails	1
6-28	Fish Muscle and Skin	7	9-12	Plankton	1	7-2	Clams	1
			9-26	Plankton	1	7-2	*	1
6-28	Clam	1	10-18	Plankton	1	7-3	Fish Muscle and Skin	1
7-4	Clam	1				7-3	Livers	1
7-4	Snails	1				7-3	Backbones	1
7-4	Sea Cucumber	1		<u>Guam</u>		9-3	Plankton	1
7-12	Fish Muscle and Skin	5	6-14	Fish Muscle and Skin	1			
7-12	Livers	1	6-14	Clams	1		<u>Ulithi</u>	
7-12	Backbones	1	6-14	Backbones	1			
7-12	Kidney	1	6-14	Clam Shell	1	9-21	Fish Muscle and Skin	1
7-18	Fish Muscle and Skin	4	7-22	Fish Muscle and Skin	7	9-21	Sea Cucumber	1
7-18	Clam	2	7-22	Backbones	1	9-21	Clams	1
7-18	Backbones	1	7-22	Livers	1	9-21	Livers	1
7-18	Livers	1	7-29	Sea Cucumber	1	9-21	Whole Fish	1
7-18	Snails	1	9-18	Whole Fish	1			
7-22	Fish Muscle and Skin	6	9-18	Livers	1			
7-22	Backbones	1	9-18	Viscera	1			
7-22	Livers	1	9-18	Sea Cucumber	1			
8-1	Fish Muscle and Skin	8	9-18	Fish Muscle and Skin	1			
8-1	Backbones	2						
8-1	Snails	1						
8-1	Clams	5		<u>Saipan</u>				
8-1	Clam Shell	1	6-1	Fish Muscle and Skin	5			
8-1	Fish Livers	1	6-16	Livers	1			
8-4	Sea Cucumbers	1	6-18	*	1			
8-4	Coral	2	6-18	Clams	1			
8-12	Fish Muscle and Skin	8	7-18	Fish Muscle and Skin	4			
8-12	Clams	3	7-18	Backbones	1			
8-12	Backbones	1	7-19	Fish Muscle and Skin	2			
8-12	Fish Livers	1	7-19	Whole Fish	1			
8-29	Plankton	1	7-19	Sea Cucumber	1			
8-29	Coral	1	9-13	Whole Fish	1			
8-29	Clams	2	9-13	Viscera	1			
8-29	Sea Cucumber	1	9-13	Livers	2			
9-1	Fish Muscle and Skin	2	9-13	Clams	1			
9-1	Backbones	2	9-13	Fish Muscle and Skin	1			
9-1	Livers	1	9-13	Backbones	1			
9-12	Backbones	2	9-13	Algae	1			
9-12	Livers	3	9-13	Sea Cucumber	1			
9-12	Fish Muscle and Skin	4						
9-12	Snails	1						
9-12	Clams	9						
9-12	Sea Cucumber	1						
9-12	Coral	1						
9-16	Fish Muscle and Skin	2						

Samples received at H. A. P. O between 9-12-56 and 10-24-56.

* Common name not known-probably snail.

Samples Received from L. R. Donaldson Surveys

Soil

Date Collected	Location	Type
4-24-56*	Janet	Top Inch
4-25-56*	Vera	Top Inch
4-26-56*	Belle	Top Inch
5- 6-56	Vera	Top Inch
5-12-56	Leroy	Bottom Sand Ocean Side
7-27-56	Belle	Top Inch
7-28-56	Elmer	Top Inch
6-26-56	Janet	Top Inch
6-26-56	Janet	2nd Inch
6-26-56	Janet	3rd Inch
7-24-56	Kabelle	Top Inch
7-24-56	Kabelle	Top Inch
7-23-56	Rongelap	Top Inch
7-23-56	Rongelap	Top Inch

Invertebrates

Date Collected	Location	Type
5-12-56	Leroy	Kidney
5-12-56	Leroy	Muscle
5-12-56	Leroy	Mantle
5-12-56	Leroy	Visceral Mass
7-27-56	Belle	Gut and Contents
7-27-56	Belle	Integument
7-28-56	Elmer	Gut and Contents
7-28-56	Elmer	Integument
4-28-56	Mui	Muscle
4-28-56	Mui	Liver
4-28-56	Mui	Skeleton
7-27-56	Bogobogo	Skeleton
7-27-56	Bogobogo	Muscle

Rat Specimens

Fish Tissue

Date	Location	Tissue
6-19-56	Eniwetok	Liver
6-19-56	Eniwetok	Muscle
6-17-56	Wotho	Muscle
6-17-56	Wotho	Liver
7- 5-56	Kusaie	Muscle
7- 6-56	Betia	Muscle
7- 6-56	Betia	Liver
7- 6-56	Bikeman	Entire
7-12-56	Ponape	Muscle
7-12-56	Ponape	Liver
7-18-56	Ujelang	Muscle
7-18-56	Ujelang	Entire

Date Collected	Tissue
4-29-56	Kidney
4-29-56	Liver
6-2 -56	Kidney
6-26-56	Lung
6-26-56	Muscle
6-26-56	Liver
6-26-56	Bone
6-26-56	Gut
7- 4-56	Embryo
7- 4-56	Muscle

Plant Tissue

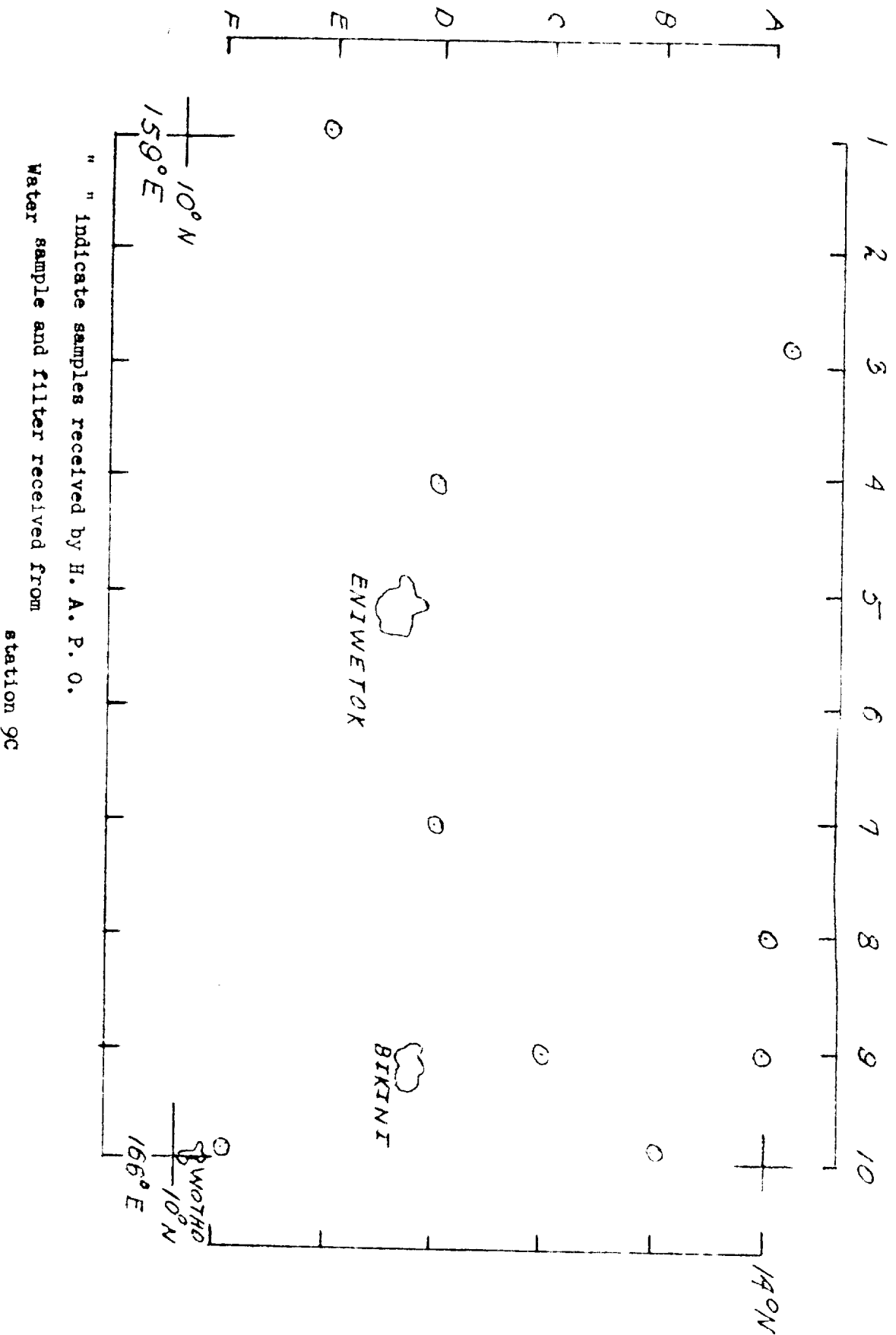
Date	Location	Type
7-28-56	Elmer	Entire
7-28-56	Elmer	Entire
7-28-56	Elmer	Entire
7-27-56	Belle	Entire
4-26-56	Belle	Leaves
4-26-56	Belle	Fruits
4-26-56	Belle	Entire
5-12-56	Leroy	Entire
6-18-56	Wotho	Leaves and Stems
6-26-56	Janet	"
6-26-56	Janet	"
6-26-56	Janet	Tops
6-26-56	Janet	Tops
6- 3-56	Elmer	Entire

* "Background Samples"

Samples received at H. A. P. O. on August 29, 1956.

Station Grid for Plankton Survey - Period of June 11 to 21, 1956

Applied Fisheries Laboratory
University of Washington



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