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April 10, 1959

US DOE ARCHIVES

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Collection 1320

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Dr. John Wolfe, Chief
Environmental Sciences Branch
Division of Biology and Medicine
Washington Atomic Energy Commission
Washington 25, D. C.

Dear John:

Enclosed are additional items to be added to the duplicate files of Rongelap Data left with DBM on February 16, 1959 by Allyn Seymour. These additional items are:

1. Page 69 - Sr⁹⁰ in the liver of land crabs, 1956 - March 1958. Data are brought up to date of August 1958. The new tabulation should replace the old tabulation.
2. Page 70 - Sr⁹⁰ in the skeleton of land crabs, 1956 - March 1958. Data are brought up to date of August 1958. The new tabulation should replace the old tabulation.
3. Page 20 - Average values of survey meter readings at Rongelap Island, March 1954 - August 1958. Data brought up to date of March 1959 and a value for Eniaetok Island on January 1955 added. The new tabulation should replace the old tabulation.
4. Pages 30 Survey meter readings at Rongelap, Eniaetok A, B, C, D and Kabelle Islands. This item should be (new pages) inserted following page 30.

Copies of these items are also being sent to Dr. Conard at Brookhaven National Laboratories.

Jim Kimmel arrived in Seattle last weekend being the last to get back from the islands.

The collections outlined last February were accomplished with the following exceptions: (1) large samples of papaya were not available. (2) Film badges were not put

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out because the calibration of the available badges was in doubt. Arrangements have been made with Mr. Schlacks, AEC RADSAFE, Eniwetok, to have suitable film badges for this purpose next summer.

We will write more details about the trip shortly and will send the data on Sr⁹⁰ in Pandanus as soon as it is available.

We hope that both you and Gordon Dunning will keep in mind the possibility of coming to Rongelap during next summers field trip.

Best regards,

Edward E. Held
Research Assistant Professor

EEH:srb

CC: Dr. Gordon Dunning

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Average Values of Surveymeter Readings on Land at Rongelap and Kabelle Islands on Different Dates (Values in mr/hr)

Date	<u>Rongelap Island</u>			
	3' closed	3' open	1" closed	1" open
Jan. 25/30/55	0.5			
Oct. -Nov. -55	0.2	1.4	0.38	2.2
July 23-24/56	0.4	1.4	0.5	2.7
July 1957	0.071	0.27	0.14	0.61
March 1958	0.029	0.21	0.064	0.48
Aug. 1958	0.058	0.10	0.087	0.14
March 1959	0.032	0.083	0.042	0.16

	<u>Kabelle Island</u>			
	3' closed	3' open	1" closed	1" open
Mar. 26/54	280.	490.	420.	1800
July 16/54	32.		110.	
Jan. 25/30/55	3.0		5.0	
Oct. -Nov. -55			2.5	9.2
July 23-24/56	1.2	4.7	2.3	9.1
July 1957	0.20	0.54	0.31	1.3
March 1958	0.14	0.72	0.29	1.1
Aug. 1958	0.16	0.35	0.18	0.58
March 1959	0.10	0.39	0.13	0.69

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	<u>Eniaetok Island</u>			
	3' closed	3' open	1" closed	1" open
Jan. 25-30/55	2.0			
March 1958	0.067	0.47	0.17	0.83
Aug. 1958	0.076	0.12	0.10	0.22
March 1959	0.048	0.14	0.070	0.26

Survey Meter Readings at Rongelap Atoll
March, 1959

Rongelap Island

Values expressed in milliroentgens per hour

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			closed	open	closed	open
1	(Note: Unable to find <u>Morinda tree</u> . Area is being cleared).		.05 .03	.10	.03 .03	.17
2)			.02 .02	.05	.03 .03	.07
3)	(Note: These areas are being cleared of all but coconut trees).		.04 .03	.12	.05 .03	.17
4)			.03 .02	.04	.04 .03	.05
5	(Note: Pandanus trees at this station have been cut down. Readings taken over dead leaves next to stump).		.04 .03	.03	.10 .04	.20
6.	(Note: <u>Scaevola</u> and <u>Messerschmidia</u> have grown densely to heights of +3' throughout previously clear area in coconut grove).		.02 .01	.03	.03 .025	.07
7			.02 .016	.02	.02 .016	.02
8			.015 .01	.02	.02 .01	.02
9			.04 .04	.20	.03 .05	.30

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- (1) For original descriptions of stations refer to "Survey Meter Readings at Rongelap Atoll, August 1958"
- (2) First reading with MX5 meter furnished and calibrated by Radsafe Eniwetok Branch USAEC.
- (3) Second reading with Scintillation survey Meter Model SM-3A, serial No. 098, AEC Cat. No. SBX-5, Nuclear Research Corp., Philadelphia, Pa. Calibrated and furnished by Brookhaven National Laboratories.

Rongelap Island (continued)

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			closed	open	closed	open
10			.03 .05	.10	.04 .05	.20
11			.03 .05	.10	.05 .05	.20
12			.03 .05	.15	.04 .05	.25
13	(Note: <u>Messerschmidia</u> gone. Reading taken under another <u>Messerschmidia</u> near pit 2).		.03 .04	.04	.04 .05	.10
14			.03 .05	.20	.07 .05	.40
15			.03 .04	.11	.04 .05	.30
16			.02 .04	.04	.04 .04	.05
17			.03 .04	.04	.03 .04	.06
18	(Note: No <u>Boerhavia</u> found in the area)		.04 .05	.10	.09 .05	.20
	Average of first reading		.030	.083	.044	.16
	Average of second reading		.034		.039	
In addition to previous stations	Graveled area 30' W of stake #75 near well		.02 .03	.03	.02 .035	.03
	100 ft. seaward from #75 over <u>Lepturus</u>		.03 .035	.04	.03 .04	.05
	200 ft. seaward from #75 over <u>Lepturus</u>		.03 .035	.05	.03 .045	.06

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Kabelle Island

Sta. No.	Area or locality	Shield	3' above ground		1" above ground	
			Closed	open	closed	open
1			.08	.40	.10	.55
			.11		.12	
2			.10	.35	.14	.50
			.11		.11	
3			.09	.30	.13	.70
			.11		.12	
4			.14	.30	.15	.45
			.18		.19	
5			.14	.70	.19	.90
			.19		.19	
6			.12	.55	.17	1.1
			.16		.17	
7			.11	.60	.18	1.1
			.11		.12	
8			.11	.60	.30	1.5
			.11		.12	
9			.11	.45	.12	.50
			.12		.13	
10			.11	.35	.15	.60
			.10		.11	
11			.10	.35	.11	.80
			.12		.12	
12			.09	.40	.20	.90
			.11		.12	
13			.03	.05	.03	.08
			.04		.04	
14			.02	.03	.02	.05
			.022		.022	
Average of first reading			.096	.29	.14	.69
Average of second reading			.11		.12	

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Eniaetok Island

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			closed	open	closed	open
1			.03 .05	.05	.03 .05	.08
2			.07 .10	.15	.15 .18	.30
3			.05 .05	.20	.05 .05	.30
4			.04 .045	.30	.15 .07	.70
5			.05 .06	.30	.08 .08	.60
6			.04 .06	.06	.04 .06	.07
7			.04 .06	.06	.04 .06	.10
8			.03 .04	.08	.05 .06	.15
9			.07 .06	.30	.15 .09	.50
10			.04 .03	.05	.04 .04	.07
11			.02 .02	.02	.02 .02	.02
Average of first reading			.044	.14	.072	.26
Average of Second reading			.052		.068	

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Sr⁹⁰ in the Liver of Land Crabs Collected
at Rongelap Atoll

Island	Date of Collection	Laboratory	No. of Samples	Sr ⁹⁰ d/m/g dry	Sr ⁹⁰ d/m/g wet	Strontium units
Kabelle	July 1956	NYO	2		29.5 [±] 4.5	3610 [±] 990
	" "	U.W.	2		44.5 [±] 2.5	4680 [±] 1570
	July 1957	U.W.	2	245 [±] 65	119 [±] 41	4800 35000
	March 1958	U.W.	5	218 [±] 103	121 [±] 52	3830 [±] 1152
	August 1958	U.W.	4	204 [±] 176	96 [±] 38	2400 [±] 1790
	July 1957	U.W.	2	61.5 [±] 5.5	21.5 [±] 6.5	1800 [±] 200
Rongelap	March 1958	U.W.	5	67 [±] 23	46 [±] 13	2497 [±] 668
	August 1958	U.W.	4	44 [±] 13	31 [±] 4	1700 [±] 427
Eriaetok	March 1958	U.W.	2	136 [±] 17	79 [±] 12	4727 [±] 1055
	August 1958	U.W.	1	41	36	1500

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Sr⁹⁰ in the Skeletons of Land Crabs collected
at Rongelap Atoll

Island	Date of Collection	Laboratory	No. of Samples	Sr ⁹⁰ d/m/g dry	Sr ⁹⁰ d/m/g wet	Strontium units
Kabelle	July 1956	NYO	3		1300±280	3240± 760
	"	U. W.	3		1950±470	4240± 970
	July 1957	U. W.	3	3570±610	2430±420	5830± 920
	March 1958	U. W.	5	3280±300	2360±210	6300± 550
	August 1958	U. W.	6	3462±780	2708±685	6300±1375
Rongelap	July 1956	NYO	1		750	2200
		U. W.	1		1310	3360
	July 1957	U. W.	2	1500±350	955±245	2350± 650
	March 1958	U. W.	5	1660±441	1180±309	3140± 860
	August 1958	U. W.	5	1211±156	939±117	2200± 294
Eniaetok	March 1958	U. W.	2	3200±800	2250±550	6000±1200
	August 1958		1	1782	1414	3200

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