

## Survey Meter Readings at Rongelap Atoll

August, 1958

Rongelap Island

Values expressed in millireps per hour\*

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			<u>closed</u>	<u>open</u>	<u>closed</u>	<u>open</u>
<u>Southwest edge of village near road, August 24, 1958</u>						
1	Under isolated <u>Morinda</u> in cleared area of coconut trees 300' SE of house with red water drum		.07 .05	.10 .12	.07 .08	.12 .22
2	Open area over sedge		.07 .05	.10 .15	.08 .05	.14 .2
3	Under coconut trees, 6' from road, 500' S of red drum, opposite new house built by Rongelapese		.06 .05	.10 .12	.09 .05	.15 .20
4	Open area over grass ( <u>Lepturus</u> )		.07 .05	.09 .10	.07 .05	.09 .12
5	Under <u>Pandanus</u> over dead leaves		.09 .07	.09 .07	.08 .05	.15 .20
<u>Southwest edge of village, seaward side</u>						
6	Walked road to ocean side. To right of road above high tide line at seaward reef between coconut trees and <u>Scaevola</u> over broken coral		.04 .03	.06 .06	.04 .04	.09 .06
7	At high tide line, seaward reef		.02 .02	.02 .02	.02 .02	.03 .02
8	Intertidal zone, seaward reef		.02 .02	.02 .02	.02 .03	.02 .03
<u>North edge of village</u>						
9	Vicinity of soil profile #1 Under coconut trees		.07 .04	.10 .07	.08 .08	.15 .15

\*First reading with PDR 27 #153  
Second reading with FCDA

Rongelap Island (continued)

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			closed	open	closed	open
10	Open area, grass		.07 .03	.11 .10	.08 .05	.13 .25
11	Area of soil profile #1 within 10 feet		.06 .02	.11 .10	.08 .05	.14 .12
12	Under <u>Pandanus</u>		.07 .06	.12 .18	.07 .08	.17 .22
13	Under <u>Messerschmidia</u>		.06 .03	.07 .05	.07 .08	.10 .10
<u>3.1 miles west of Magistrate John's house</u>						
	In coconut grove 25' south of road (across road from the cemetery) Grass now 1'-2' high, lush green		.08 .06 .06	.11 .12 .14	.09 .07 .07	.17 .18 .16
	In coconut grove 100' south of road		.08 .07 .08	.11 .15 .10	.10 .08 .06	.15 .24 .22
<u>West end of island about 0.1 miles east of road end; 3.6 miles from John's</u>						
	15' south of road over open area		.06 .06 .06	.12 .14 .15	.2 .3 .27	.07 .04 .05
	10' north of road over <u>Scaevola</u>		.04 .06 .06	.07 .10 .09	.09 .05 .10	.15 .11 .14
	60' north of road over sand and <u>Wedalia</u> vines, and <u>Boerhavia</u>		.08 .05 .07	.10 .12 .10	.09 .06 .05	.13 .18 .2
	Average of first reading		.062	.089	.079	.119
	Average of second reading		.046	.099	.071	.141
	Average of third reading		.067	.116	.11	.154

Kabelle Island  
August 20, 1958

Sta. No.	Area or locality	Shield:	3' above ground		1' above ground	
			closed	open	closed	open
<u>Center of Island</u>						
1	Lysimeter station under		.17	.27	.21	.40
	<u>Pisonia</u>		.14	.55	.21	1.2
2	Lysimeter station under		.19	.23	.21	.32
	<u>Pisonia</u>		.16	.27	.18	.38
3	Under <u>Pisonia</u> , over guano on		.19	.30	.19	.36
	<u>Boerhavia</u> (Guano no hotter than ground)		.19	.37	.18	.60
<u>Proceeding from lagoon shore toward seaward shore across center of island</u>						
4	Just above high tide, lagoon side		.18	.23	.20	.30
			.13	.32	.19	.70
5	About 40 yds. from shore, open area		.25	.37	.25	.60
			.1.	.85	.23	1.60
6	About 100 yds. from shore, <u>Pisonia</u> and coconut trees		.20	.29	.22	.40
			.15	.55	.16	.70
7	About 100 yds. from shore, mound under coconut trees		-	-	-	-
8	200 yds. from shore, 50' north of Lysimeter Station, under		.20	.25	.24	.40
	<u>Pisonia</u>		.15	.55	.18	.70
9	About 200 yds. from shore, sandy area		.20	.28	.26	.35
			.14	.42	.13	.95
10	About 275 yds. from shore under <u>Scaevola</u> and <u>Guettarda</u> ,		.20	.30	.27	.60
	sandy area 200-220 yds. along trail from Lysimeter Station		.16	.70	.17	1.10
11	About 400 yds. from shore, <u>Scaevola</u> thicket, over dead		.20	.27	.20	.36
	leaves. 320 yds. from Lysimeter Station along trail		.16	.65	.19	1.20
12	About 400 yds. from shore, <u>Scaevola</u> thicket, over sand		.17	.26	.22	.45
	cover with black lichen or algal growth. 100 yds. from ocean high tide.		.12	.60	.15	.80

Kabelle Island (continued)

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			closed	open	closed	open
13	High tide line, over sand		.13	.15	.13	.22
			.07	.15	.13	.24
14	Intertidal beach rock, ocean side		.03	.03	.03	.05
			.04	.06	.03	.05
	Average of first reading		.178	.25	.20	.37
	Average of second reading		.137	.46	.164	.79

Eniaetok Island

August 18, 1958

Sta. No.	Area or locality	Shield:	3' above ground		1" above ground	
			closed	open	closed	open
Readings taken across center of island at widest portion from lagoon shore to seaward shore						
1	Near first house under coconut trees		.08	.11	.12	.16
			.08	.13	.09	.26
2	Pile of humus and ashes		.10	.12	.10	.16
			.08	.21	.08	.16
3	Under <u>Pandanus</u> over dead leaves		.08	.13	.10	.16
			.11	.21	.07	.65
4	Under coconut trees beside road 100' from water		.08	.10	.10	.12
			.07	.13	.09	.34
5	Coconut grove N of road about 1/3 way across island		.10	.17	.15	.23
			.07	.12	.12	.32
6	Pile of coconut husks		.10	.14	.12	.16
			.08	.14	.09	.17
7	Grass and sand. (Sand has moved in, covered most lichen)		.08	.08	.08	.09
			.06	.09	.07	.09
8	Over fresh sand		.07	.07	.07	.06
			.05	.07	.06	.09
9	Over lichen		.06	.09	.07	.13
			.06	.13	.07	.21

Eniaetok Island (continued)

Sta. No.	Area or locality	Shield	3' above ground		1" above ground	
			closed	open	closed	open
10	At high tide line		.06	.08	.07	.08
			.07	.12	.07	.16
11	Intertidal zone, beach pavement		.02	.03	.015	.02
			.02	.03	.03	.04
Areas in ad- dition to previous stations	Beside road 200 yds. from ship landing under coconut tree, fronds and bare sand		.07	.16	.55	.26
			.06	.08	.05	.13
	<u>Scaevola</u> at edge of tidal area, N end of island		.08	.08	.10	.17
			.07	.14	.13	.32
	Lichen on sand at N end		.08	.09	.11	.38
			.07	.21	.08	.55
	Coconut grove, N end road. Soil, sand and fronds		.12	.16	.14	.23
			.14	.25	.11	.60
	Average of first reading		.079	.107	.126	.161
	Average of second reading		.073	.137	.081	.273