19 Apr 54 MHS

403034

Dear Frank

Enclosed are 6 Thyroids from pre shot collections and one from Rongelap.

They have been prepared as follows:

Wet weight taken.
Approx 1 mg KI carrier sol added (1 drop)
" 1 " NaOH Base sol " (1 drop)
Air dryed for 24 hours
Heat lamp for 1 hour.

The thyroids are in the center of the plate and should be counted as a point source rather than spread over a large area. Previous experience shows this factor to be about 1.43 times the same activity spread over a 1½" plate.

We have counted these thyroids here but the counter has not been calibrated, nor is the geometry, window thickness, etc. known. If you can count these plates there with ~~these~~ known factors it will be appreciated.

Counts obtained here were:

Shelf 1 Date 17 Apr. 54

Sample No.	ABOVE C/M BACKGROUND
7251	1146
7252	2860
7253	132
[illegible]	153

Sample	C/M
7257	15,62[illegible]

↑ Rongelap

Enclosed also is the decay curve on the Rongelap curlew's thyroid. It would seem to indicate Iodine 131.; 8.2 day half life.

I will appreciate any suggestions you may have regarding our rat program. Things are going fairly well but trap percentages of catch could be increased especially at Engebi. There are hundreds of rats there but there seems to be plenty of food to eat too so they don't pay any attention to our bait. I am attempting to feed them now and hope they will learn to hunt for our bait.

Yours
Charlie Barnes