

18th December 1964

Dr. G. L. Nelms  
Defense Research Board  
Ottawa 4, Ontario  
Canada

Dear Dr. Nelms:

Thank you for your letter of the 4th and enclosures. Five of the six plots were interesting. The sixth was daytime when D. region absorption prevents any cosmic static being detected. Please have similar plots made for the following 1963 passes.

Day	GMT	Day	GMT	Day	GMT	Day	GMT
048	1831	076	1451	132	1839	230	1919
050	1801	123	0856	170	1409	231	1810
055	1736	123	2004	197	0951	239	1751
056	1813	125	1933	200	0958	307	0911
058	1746	130	1909	210	0909	318	1821
070	1623	132	0731	225	1942	348	1410

These two dozen dates were chosen to give extremes of the ionospheric hole open and shut. I hope this request is not out of line with your work. When I have added these to the six you already have supplied, I will report to you my findings.

My installation here operates at 2085 KC. The beam is 8° diameter and adjustable to any direction in the north-zenith-south plane. A large amount of good cosmic static data has been secured during the past two years. One more year of the present minimum still remains. When solar activity begins to rise, I will close this adventure and report my findings.

Shortly thereafter, I expect to setup more elaborately in your part of the world in anticipation of the next solar activity minimum. The northern sky should be even more interesting than the southern sky at hectometer waves.

Please remember me to Dr. Scott.

Yours faithfully,  
*Grote Reber*  
Grote Reber

P.S. In my letter of 23/10/64, line 5, please change East to West.