

March 1st, 1947  
213 W. Seminary Ave.  
Wheaton, Illinois

Dr. G. C. Southworth  
Box 107  
Red Bank, New Jersey

Dear Dr. Southworth:

Enclosed is a reprint giving a short description of the abnormal solar radiation mentioned in my telegram of November 22nd. Similar phenomena occurred on October 17th and December 16th complete with night time swishes.

A somewhat different kind of a disturbance manifest itself early in February. Instead of the 15 percent variations mentioned in the first paragraph of the enclosed reprint; the solar intensity gradually rose over a period of several days to about five times normal on the 12th and then decreased. During this period a rather large group of spots was forming and passing across the solar disk. No swishes or other short time variations were associated with this disturbance.

From your telegram of November 22nd I gather that the storm of Nov 21st was much more pronounced at 63.5cm than at 1.25cm wavelength. I am wondering if you noticed any abnormal solar intensity on February 12th which might be associated with my observations here? The disturbances of Nov 21st and Feb 12th I believe to be of separate and distinct types.

You will probably be interested to know that there is a good possibility that this program will be taken over by the Bureau of Standards and prosecuted on an expanded scale. If these plans come to fruition I will be able to put full time upon the work and substantially increased results should be obtained.

Sincerely yours,

Grote Reber