

November 1st, 1947
P.O. Box 4868
Cleveland Park Station
Washington, D.C.

Mr. A. Peace
Fr. Alexanderstr. 25
Eindhoven, Holland

via air mail

Dear Mr. Peace:

Thank you for your letters of 8th and 24th of October. My radio telescope when built, was placed on a meridian transit type of mounting. Consequently all past measurements on the sun at Wheaton, Illinois had to be made near true noon which is approximately 1800 GMT.

The enclosed reprint from Nature, describes the temporary enhancement of radio waves from the sun at 480mc on 21st November 1946. Similar phenomena occurred on 17th October 1946 and 22nd May 1947. A somewhat different type of enhancement occurred on 12th February, 8th thru 12th March inclusive, 3rd, 4th, 6th and 8th April, 20th May 1947.

Unfortunately no exact time for these disturbances can be given as the solar radiation varies rapidly from second to second and the disturbed period usually lasts from several minutes to an hour or more.

It seems rather doubtful to me that the planets have any control over solar activity or that they cause enhancements of solar radio waves. The enhancements probably originate in the sun and appear to be associated in some manner with spots or flocculi and perhaps the birth thereof.

Unfortunately the proposed test of November 5th cannot be conducted as the machine is now disassembled. You will probably be interested to know that I have recently joined the U.S. National Bureau of Standards and that a substantial program of cosmic and solar radio wave investigation is now being organized. My machine will be reassembled and placed on an altiazimuth mounting at our field station in Virginia. Also two large captured German machines are being installed so that a close watch may be kept upon the sun from rising to setting.

I will put you on my mailing list of any publications which are brought out on this subject in the future.

Very truly yours,

Grote Reber