November 21, 1938 212 W. Seminary Ave. Wheaton, Illinois

Dear Schuyler:

The results obtained from October 10th to November 4th are as follows.

	Point sources have been			n located	Unknown	Unknown	Unkn own
Dec.	-26 ⁰	-26 ¹ 1625	-27 ⁰	-27 2 0	-26	-29	near -31
R. A.	1713 1838	1710	1802	1700 1805	1704 1710	1603 1629 1710	1642

These unknown Declination points were taken before a Bec. scale was marked out. Two large regions of radiation were found, each about 5° in diameter centering on Dec. -27° R.A. 1600 and Dec. -26° R.A. 2000. These positions may have a systematic error or a degree or so because I have ne accurate calibration of direction but are accurate among themselves.

The maximum intensity measured is about 3 x 10^{-24} watt/sq.cm/kc. band at a frequency of 160 megacycles. This is in general agreement with my theory, however the point sources are unexplainable. Previous tests at 900 and 3300 megacycles were failures due to poor sensitivity of equipment and low level of radiation.

These point sources may be due to a type of supergiant star such as Antares which happens to fit Dec. $-26\frac{10}{2}$ R.A. 1625 fairly well. On 10-28-38 the moon crossed facus at approx. 1935 when guite a large dip occurred. Whether this has any meaning or is just a coincidence remains to be checked.

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On the 5th of Nov. a heavy rais flooded out the receiver. Since then it has been in process of overhaul to make water tight and increase electrical sensitivity.

Last winter Greenstein told me Whipple of Harvard Astronomy department was working on the problem. You might look him up and see what he has done. Perhaps you can find some good fotographs of sky and see if any unusual objects are located near the above position. I am enclosing a fote I took of machine with drum straight up. Most of those you took came out blurred because you punched the button too hard.

Yours truly,

Grote Reber