

November 29th, 1947
P.O. Box 4868
Cleveland Park Station
Washington, D.C.

Dr. Bengt Stromgren, Director
Royal Observatory, Copenhagen
Visiting Professor, Yerkes Observatory
Williams Bay, Wisconsin

Dear Dr. Stromgren:

Thank you for your note of the 25th. The other day I was looking over some pictures of German radar equipment. An interesting device known variously as "Chimney Equipment" or "Giant Wasserman" is, or was, located at Vorupur, Denmark. The antenna array consisted of a large number of dipoles on a frame about 100 feet high and 40 feet wide. The frame was mounted on a vertical axis so that it could be swept around the azimuth. Operating frequency was about 125 megacycles. By making some alterations in the receiving equipment and installing low internal noise pre-amplifiers of modern design, it seems quite possible to conduct some interesting experiments on galactic radio waves. The very large antenna should give high resolving power. If it is desired to tilt the beam up a bit from the horizon, this may be done by adjusting the relative phase electrically between consecutive horizontal strings of dipoles.

I merely bring this matter up as I would like to see other people do experiments on radio astronomy. Perhaps you could locate some Giant Wurzburgs for solar experiments. They were once installed at Skorping and Skagen and probably other places in Denmark.

Sincerely yours,

Grote Reber