written while in Washington, D.C.

February 24th, 1947 212 W. Seminary Ave. Wheaton, Ellinois, U.S.A.

via air mail

Dr. J. H. Oert Leiden Observatory Leiden, Holland

Dear Dr. Corts

It has been some time since I have heard from you regarding astronomical radio and I am wondering how your plans are progressing.

Enclosed is a short note regarding some of my solar measurements. These will be published in expanded from after more data has been collected. While I have secured a let of data on the galaxy at 450mm, no effort will be made to reduce it until the survey is complete. In general the center of the disturbance is in Sagittarius but the details are still unknown. However it is apparent the 450mm picture will be different than the 160mm picture; not merely the same set of constant intensity contours with different absolute intensity. The peak intensity in the region of the center of the galaxy is of the same order of magnitude at 450mm as at 160mm.

As of the present date it is practically certain that my services, my equipment and the whole program are going to be taken over by the U. S. Bureau of Standards and prosecuted on a large scale at their field station in Sterling, Virginia. Currently, funds are available but time is short. If the funds are not committed in some fashion by the 50th of June 1977 it is very likely they will be returned to the U. S. Treasury. As part of the expanded program the Bureau desires to



secure a really large mirror (75 to 100 feet in dismeter). The engineering on such a machine is considerable and very time consuming.

When Dr. Minnaert visited my laboratory some time age he mentioned that you had worked up detailed drawings for a mirror 25 meters in diameter but were unfortunate in the securing of funds for the construction of same. If you would be kind enough to send me a complete set of blue prints giving detailed specifications on the construction of this device I believe much engineering time could be saved here. Probably with very small change, your designs could be carried out by an American bridge building company.

If the program goes into operation; and I have every reason to believe that it will, we will be pleased to make available to you such of our findings as are of interest to your investigations at Leiden.

Please let me know as soon as possible the availability of detailed plans and specifications on your mirror, along with a few fundamentals such as exact diameter, focal length, type of mounting (altianization or equitorial), etc. If any charges are connected with the reproduction of these prints and specifications; I will be pleased to defray same upon receipt of a statement of their amount.

Sincerely yours.

Grote Reber