# FRAUNHOFER INSTITUT

MIT DEN OBSERVATORIEN SCHAUINSLAND UND ANACAPRI

FREIBURG IM BREISGAU
SCHONECKSTRASSE 6

January 15, 1958

Dear Colleague,

A few words of introduction to the beginning of the third year of our DAILY MAPS OF THE SUN might be appropriate.

The preparation of these maps is based essentially on the generous cooperation of numerous observatories all over the world. Our heartily thanks we ow to Prof. and Mrs. L.d'Azambuja (Meudon), Prof. P. Bourgeois and Dr. R. Coutrez (Uccle), Dr. A.K. Das (Kodaikanal, India), Dr. J. Evans (Sacramento Peak), Dr. R.G. Giovanelli (Sydney), Prof. W. Gleissberg and Prof. N.T. Gökdogan (Istanbul), Prof. G. Haro and Prof. L.R. Terrazzas (Tonanzintla, Mexico), Dr. F.W. Jäger and Mr. H. Künzel (Potsdam), Prof. O. Mathias and Dr. H. Haupt (Kanzelhöhe, Österreich), Prof. R. Müller (Wendelstein), Dr. M. Notuki (Tokyo), Prof. S. Plakidis and Mr. D.P. Elias (Athen), Prof. G. Righini (Arcetri), Dr. W.O. Roberts (Boulder,Climax), Prof. J. Roesch (Pic du Midi), Prof. A.B. Severny (Crimea, USSR), Dr. W. Staiger (Honolulu), Dr. Z. Svestka (Ondrejov), Prof. R.v.d.R. Woolley (Greenwich).

The majority of maps hitherto published has been worked out by Dr. K. Brunnckow, using the negatives which we receive twice monthly. Only the maps of January to April 1956 have been prepared by Dr. U. Becker and Dr. A. Bruzek. The preparation of the clichés, printing and mailing has been done by Frl. Brigitte Weis, Ingeborg Fecht and Heide Randebrock.

During the two years of publication we had alltogether only 3 gap days for the photosphere, 3 gaps for Filaments, 4 for prominences, 22 for Calcium plages and 73 for the corona.

The character of our maps has been maintained in general, nevertheless a few remarks might be good here about the difficulties we have in preparing them.

Our main problem is the critical examination of different documents as spectroheliograms, filtergrams, exposures in integrated light supplied to us from different observatories. The negatives come from different types of instruments, they are taken under varying seeing conditions. Often pictures taken allmost simultaneously at different stations show differences