

PROPOSING INSTITUTION

The Manila Observatory

Mailing Address:

Manila Observatory
P. O. Box 2722
Manila
Philippines

Legal Title: "Observatorio de Manila, Inc."

TITLE OF PROPOSED RESEARCH

Monitoring of Solar Activity at 8-hours East Longitude,
and an Investigation of Related Solar Phenomena.

DESIRED STARTING DATE: April 1, 1962

DURATION OF THE PROJECT: Three Years

DESCRIPTION OF PROPOSED PROJECT:

Abstract

It is proposed to set up facilities at the Manila Observatory to provide continuous optical monitoring of solar activity. Daily observations of sunspots, flares and other solar activity will be made available to interested groups, to provide a complete coverage of solar activity during the time when the sun is not visible in Europe or the United States.

In addition, a specific study of the line broadening of the H and K lines of Ca II and lines of other elements in regions of disturbance will be undertaken, to better understand the nature of flares and of the Wilson correlation of K-line width with spectral type. Work on spectra of individual spots is planned. Also statistical studies of sunspot zone formations and of formations of associated facular and prominence features will be carried out during the present project.