

International Astronomical Union

QUARTERLY BULLETIN ON SOLAR ACTIVITY

1980

Volume XXII

Published by the Tokyo Astronomical Observatory

with financial support from UNESCO and the International Council of Scientific Unions

through the Federation of Astronomical and Geophysical Services

Edited by F. MORIYAMA

## Preface

The present volume XXII of the "Quarterly Bulletin on Solar Activity" covers the period from January to December 1980. As in the preceding volumes, the Bulletin contains the following five parts :

- I Sunspots
- II Synoptic Charts of Solar Magnetic Fields
- III Chromospheric Flares
- IV Coronal Observations
- V Solar Radio Emission

The sunspot tables forming Part I are edited under the care of Sunspot Index Data Center Bruxelles, and Part II ( Synoptic Charts of Solar Magnetic Fields ) is supplied by the Mt. Wilson Observatory, Pasadena. The flare observations, on which Part III is based, are collected at the Observatoire de Paris, Section d'Astrophysique, Meudon, and from there the compiled data are sent to the editor. The coronal intensities given in Part IV are sent directly to the editor from the participating observatories, and the heliographic maps of the corona added to Part IV are made at the Kislovodsk Station of the Pulkovo Observatory. The preparation of Part V (Solar Radio Emission) has been under the care of the Research Institute of Atmospheric, Toyokawa.

The editor wishes to express his sincere thanks to Dr. A. Koeckelenbergh for the compilation of Part I, to Dr. R. Howard for furnishing the charts of solar magnetic fields, to Dr. M. Bernot for the editorship of flare data, to Dr. M. N. Gnevyshev for providing the coronal maps, and to Dr. S. Enome for the preparation of Part V.

The Bulletin has been financially supported from UNESCO and the International Council of Scientific Unions through the Federation of Astronomical and Geophysical Services.

F. Moriyama  
Tokyo Astronomical Observatory