

COMMISSIONS 10 AND 44
B. COORDINATION OF SOLAR OBSERVATIONS
MADE AT GROUND-BASED OBSERVATORIES AND
WITH SPACE VEHICLES

INTRODUCTION

The newly established Inter-Union Commission on Solar-Terrestrial Physics (IUCSTP) has inquired of selected experts about actions useful in the period of the next solar maximum, which need an organization and coordination on international basis. These inquiries have shown that one of the problems, in which a broad international cooperation might lead to substantial improvement of scientific results, is the coordination of ground-base and space-vehicle observations of the Sun and its active phenomena.

Therefore, in order to help the IUCSTP in its preparatory work, the chairmen of IAU Commissions 10 (Solar Activity) and 44 (Observations from outside the Atmosphere) agreed to hold a joint meeting of these two Commissions during the IAU Assembly in Prague, on 'Coordination of solar observations made at ground-base Observatories and with space vehicles'. It was anticipated that other IAU members interested in this problem, particularly members of Commissions 12 and 40, would also take part in the discussion.

The joint session held on August 24, was organized and chaired by C. de Jager, of the Space Research Laboratory in Utrecht. At this meeting, the following papers were presented:

1. K. O. Kiepenheuer: The Need of Ground-Correlated High-Resolution Space Observations in the Visible.
2. A. B. Severny: Space Observations Needed for Improving Our Knowledge of Solar Flares.
3. Y. Öhman: Space Observations of Flare Sprays and Related Surge Phenomena.
4. E. M. Reeves: The Needs and Requirements from the Standpoint of the Ultra-violet Solar Observations.
5. J. R. Winckler: Hard Solar X-Rays in the deka-keV Range.
6. C. de Jager: Hard Solar X-ray Bursts.
7. G. G. Fazio: Solar Gamma Rays and their Correlation with Space and Ground-Based Observations.
8. C. de Jager: The Coordination of Ground-Based and Space Observations: Summary.

Seven of these papers, which are of general interest and have not been published elsewhere, have been selected for publication in this volume. The contribution by Winckler appears in *Proceedings of the IAU Symposium*, 35.

L. GOLDBERG,
President, IAU Commission 44

Z. ŠVESTKA,
President, IAU Commission 10