

TRANSACTIONS
OF THE
INTERNATIONAL
ASTRONOMICAL UNION
VOL. XVII^A (REPORTS 1976)
PART 1
REPORTS ON ASTRONOMY

**TRANSACTIONS
OF THE
INTERNATIONAL
ASTRONOMICAL UNION
VOLUME XVII A – PART 1
REPORTS**

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS
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UNION ASTRONOMIQUE INTERNATIONALE

TRANSACTIONS
OF THE
INTERNATIONAL ASTRONOMICAL UNION
VOLUME XVII A - PART 1

REPORTS
ON
ASTRONOMY

Edited by

G. CONTOPOULOS

General Secretary of the Union



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INTRODUCTION

The reports on Astronomy, 1976, have been arranged into three Volumes of moderate size and as much as possible homogeneous contents. The Commission Reports have been divided as follows:

VOL. XVIA-1

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VOL. XVIA-2

Commissions

8	Positional Astronomy
10	Solar Activity
12	Radiation and Structure of the Solar Atmosphere
24	Photographic Astrometry
25	Stellar Photometry and Polarimetry
26	Double Stars
27	Variable Stars
29	Stellar Spectra
30	Radial Velocities
35	Stellar Constitution
36	Theory of Stellar Atmospheres
42	Close Binary Stars
45	Spectral Classifications and Multi-band Colour Indices

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Commissions

28	Galaxies
33	Structure and Dynamics of the Galactic System
34	Interstellar Matter and Planetary Nebulae
37	Star Clusters and Associations
47	Cosmology
40	Radio Astronomy
44	Astronomical Observations from outside the Terrestrial Atmosphere
48	High Energy Astrophysics

It is hoped that the present system will allow a wider circulation of the separate Volumes to Members of the IAU and other scientists interested in particular topics of astronomical research.

Still it was necessary to adopt the utmost conciseness in the Reports. Otherwise, in view of the considerable increase of the astronomical activity (including the work of physicists, chemists and other non professional astronomers) each of the three volumes could well be more than double its present size.

In view of this restriction the various Presidents of Commissions reacted in different ways. Some have reviewed the recent research in the area of their Commissions, giving only a few general references, others have provided extensive references but little description of the published work. However, in most Commissions' Reports I found a wealth of useful and exciting information that would be valuable for research workers in any field of Astronomy.

I want to thank all Presidents of Commissions and their Colleagues who took part in preparing the various Commissions' Reports.

G. CONTOPOULOS
General Secretary

Athens
January 31, 1976

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