

Preface

The Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP) is organized on a biennial basis holding a long history of 22 years, dating back to the early 1990s. This year it is co-organized by the National and Kapodistrian University of Athens (Department of Atmospheric Physics – Meteorology and Laboratory of Climatology and Atmospheric Environment), the Hellenic Meteorological Society and the Mariolopoulos-Kanaginis Foundation for the Environmental Sciences. COMECAP Conferences provide the opportunity for the dissemination of new knowledge in the framework of Meteorology, Climatology and Atmospheric Physics, hosting experts, scientists and mainly young researchers to present their recent research studies and share their innovating ideas.

COMECAP 2012 covers various topics related to the science of the Atmospheric Environment, which is in fact an interdisciplinary field, giving the opportunity to understand the physical systems and environmental processes in an integrated manner. The papers presented at COMECAP 2012 cover a spectrum of topics that include Atmospheric Physics and Radiation, Dynamic and Synoptic Meteorology, Applied Meteorology and Climatology, Climate Dynamics and Changes, Weather Analysis and Forecasting and Extreme Events, Mesoscale and Micro-meteorology, Remote Sensing and Satellite Meteorology, Air Quality (Indoor and Outdoor), Bio-meteorology and Bioclimatology, Agricultural Meteorology, Hydrology and Hydrometeorology. It is worth mentioning that 177 full papers were finally accepted to be published at the Conference Proceedings after peer revision against 210 abstracts initially submitted. The published papers in this book are classified into three main sections, as reflected in the title of the Conference: 50 papers in Meteorology, 67 in Climatology and 60 in Atmospheric Physics.

Finally, it is my pleasure and privilege to acknowledge the contribution of the authors, the members of the Scientific Committee, the appointed reviewers and especially the members of the Organizing Committee, for their valuable efforts on the production of this book, as well as our Sponsors.

I wish you all a fruitful Conference and a pleasant stay at the beautiful city of Athens.

The Conference Chairman

Professor Costas G. Helmis

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