

# Preface

The goal of the third International Summer School on Atmospheric and Oceanic Science (ISSAOS 2004) was to bring together experts in observing systems and the atmospheric sciences to discuss the need for an observing system for atmospheric composition, its components, and the integration of components into a system. Much of the lecture material was conceptual, with the idea to provide attendees with a context to put their own component of the observing system.

The Local Committee, Guido Visconti and Piero Di Carlo, started to think about this school in the summer 2002 and asked William Brune to be a director. Prof. Brune accepted with enthusiasm and was able to get Mark Schoeberl and Andreas Wahner as co-directors. Because the director soon realized that they needed another year to put together all the speakers he had in mind, the school was held from 20–24 September 2004 in L'Aquila (Italy). The speakers were P. K. Bhartia, W. Brune, J. Burrows, J.-P. Cammas, K. Demerjian, H. Fischer, D. Jacob, P. Newman, K. Reichard, V. Rizi, M. Schoeberl, M. Schultz, U. Schumann, A. Thompson, C. Trepte, A. Wahner.

This edition of ISSAOS, for the first time, asked students to provide an evaluation of the school at its conclusion. The students generally liked the school, including the quality of the lectures, the opportunities to ask the lecturers questions, and accessibility of the lecturers for conversations. These results encouraged us to put together the lectures of the school in a book to give a larger audience the opportunity to learn about the observational and modeling techniques used to understand the atmospheric composition from satellites, aircraft, and ground-based platforms. For many lectures were two common themes: the role of each component in an observing system for atmospheric composition, and the advances necessary to improve the understanding of atmospheric composition.

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Satellite, Aircraft, Sensor Web and Ground-Based  
Observational Methods and Strategies

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