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Front Matter: Volume 9640

, "Front Matter: Volume 9640," Proc. SPIE 9640, Remote Sensing of Clouds and the Atmosphere XX, 964001 (21 October 2015); doi: 10.1117/12.2220468

SPIE.

Event: SPIE Remote Sensing, 2015, Toulouse, France

PROCEEDINGS OF SPIE

Remote Sensing of Clouds and the Atmosphere XX

**Adolfo Comerón
Evgueni I. Kassianov
Klaus Schäfer
Richard H. Picard
Konradin Weber**
Editors

**23–24 September 2015
Toulouse, France**

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Published by
SPIE

Volume 9640

Proceedings of SPIE 0277-786X, V. 9640

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

Remote Sensing of Clouds and the Atmosphere XX, edited by Adolfo Comerón, Evgueni I. Kassianov,
Klaus Schäfer, Richard H. Picard, Konradin Weber, Proc. of SPIE Vol. 9640, 964001
2015 SPIE · CCC code: 0277-786X/15/\$18 · doi: 10.1117/12.2220468

Proc. of SPIE Vol. 9640 964001-1

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Author(s), "Title of Paper," in *Remote Sensing of Clouds and the Atmosphere XX*, edited by Adolfo Comerón, Evgueni I. Kassianov, Klaus Schäfer, Richard H. Picard, Konradin Weber, Proceedings of SPIE Vol. 9640 (SPIE, Bellingham, WA, 2015) Six-digit Article CID Number.

ISSN: 0277-786X

ISSN: 1996-756X (electronic)

ISBN: 9781628418507

Published by

SPIE

P.O. Box 10, Bellingham, Washington 98227-0010 USA

Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445

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Introduction

Remote sensing of clouds and atmosphere, with a long history of accomplishments, is at the heart of numerous studies aimed at understanding better a broad range of complex climate-related physical processes. This volume of SPIE proceedings includes 33 manuscripts in which the conference participants offer valuable highlights of the recent achievements in the development of advanced observational capabilities and improvements in remote sensing techniques. These proceedings cover the full range of the conference topics related to the remote sensing of atmosphere and clouds from surface and space, and the theoretical and experimental aspects of interaction of passive and active radiation with atmosphere and clouds.

Two invited speakers (Dr. David Winker, NASA Langley Research Center, United States, and Dr. Marc Mallet, Laboratoire d'Aérodynamique, CNRS, France) gave illuminating talks that bridged important observational and model components and generated many fruitful follow-up discussions. In addition to the distinguished senior participants, several early career scientists gave talks and shared new perspectives in their research fields.

The meeting was held in Toulouse, France, a beautiful and dynamic city with pleasant surroundings, and one of the main centers of the European aerospace industry. We are grateful to the SPIE Organizing Committee for providing the friendly environment and all participants for their valuable contributions, which were essential to the success of this meeting.

Adolfo Comerón
Evgueni I. Kassianov
Klaus Schäfer
Richard H. Picard
Konradin Weber