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# PROCEEDINGS OF SPIE

## ***Remote Sensing of Clouds and the Atmosphere XVI***

**Evgueni I. Kassianov**  
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*Editors*

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## Introduction

The XVI Conference “Remote Sensing of Clouds and the Atmosphere” took place in Prague, Czech Republic, 21-22 September 2011. This conference was built on the great success of the previous fifteen conferences and covered important multidisciplinary topics with numerous applications. The selected more than 30 contributions in this volume represent the latest scientific results and technological advances in remote sensing of clear-sky and cloudy atmosphere. These contributions combine researches from 10 countries ranging from talented PhD students to distinguished scientists. These contributions were originally presented at the Conference during four oral and one poster session and described significant improvements in the active and passive remote sensing from Earth's surface and space. Also they highlighted impressive achievements in the development of the next-generation sensors with diverse observational capabilities. For example, one of these contributions highlights the future NPOESS Preparatory Project mission that is scheduled for launch on 25 October 2011 and would include the new Ozone Mapping and Profiler Suite (OMPS) with unique capabilities for producing ozone profiles and complementary climate-related products. This volume covers a great deal of the remote sensing “territory” and we thank all participants of this conference for their very interesting and valuable contributions. Our special recognition and thanks goes to the management and local staff of the conference for the productive and memorable time in Prague.

**Evgueni Kassianov**  
**Adolfo Comeron**  
**Richard H. Picard**  
**Klaus Schaefer**

