

Preface

This book documents the research activities related to earth observation and global changes. The contributions originate from selected presentations at the EOGC2011—3rd Earth Observation and Global Changes Conference, which was jointly organized by Technische Universität München (TUM) in Germany, Peking University (China), and University of Waterloo (Canada). The conference was related to the JURSE2011—Joint Urban Remote Sensing Event, held in the same week at TUM. The EOGC2011 was a forum for researchers dealing on earth observation and global changes with respect to the information technology. The event was cosponsored by International Society for Photogrammetry and Remote Sensing (ISPRS), International Cartographic Association (ICA), International Association of Geodesy (IAG), International Society for Digital Earth (ISDE), and the International Office of TUM. The conference gathered 66 participants from 19 countries with 31 selected presentations covering a variety of aspects concerning Remote Sensing, GIS, Cartography, and Geodesy. Two keynote speeches were given by Prof. Reiner Rummel and Prof. Markus Rothacher. We thank all the contributors for their excellent input and all the participants for making the EOGC2011 an outstanding and multidisciplinary event.

Nineteen papers from the proceedings are elaborated and now published in this book “Earth Observation of Global Changes (EOGC)” within the Springer series “Lecture Notes in Geoinformation and Cartography”. As the field of study covers a wide spectrum of research topics, the editor team assures the quality of this cross-disciplinary field. The editors are Prof. Liqiu Meng for the topic Global Change and Change Detection; Dr. Jukka M. Krusp for the topic Spatial Modelling, GIS, and Geovisualization; Prof. Roland Pail for Physical Geodesy; and Prof. Uwe Stilla for the topic Photogrammetry and Remote Sensing. Our aim is to benefit the scientific community in a wide range by presenting different topics from different perspectives.

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