

TABLE OF CONTENTS

Introduction to the Workshop of ISPRS WG IV-2: “Global Geospatial Information and High Resolution Global Land Cover/Land Use Mapping”	3
The Global Status of Topographic Mapping <i>Gottfried Konecny</i>	4
The Global Status of Topographical Mapping: Technical Backgrounds of the Project <i>Uwe Breitkopf</i>	21
The Current Status of Mapping in the World – Spotlight on Pacific Islands <i>Jonh C. Trinder</i>	22
High Resolution Global Land Cover/Land Use Mapping. Current Status and Upcoming Trends <i>Klaus U. Komp</i>	33
Vegetation Cover State Evaluation within the Fukushima-1 Area by Multispectral and Radar Satellite Data Analysis <i>Oleksii I. Sakhatskyi, Sergey A. Stankevich, Galina M. Zholobak, Alexander A. Apostolov, Akira Iwasaki, Shinichi Nakasuka, Seiji Yoshimoto, Yoshihide Aoyanagi</i>	48
Mapping Techniques for Spatio-Temporal Siberian Vegetation Changes <i>Vladimir A. Seredovich, Sergey V. Shimov</i>	56
Belligerent Landscape Change Analysis Using Remote Mapping of Vegetation Cover <i>Sergey A. Stankevich, Tamara V. Dudar, Irina V. Loik, Natalia S. Neizmailova</i>	64
Automated Thematic Contours Border Registration as an example of Digital Soil Map for Novosibirsk Region and Creation of Analytical Information Retrieval System for the Development of Agribusiness Clusters of Siberia <i>Konstantin S. Baykov, Yaroslava G. Poshivaylo, Vyacheslav N. Nikitin, Natalya A. Shergunova, Sergei V. Solovev, Andrei A. Zverev, Yulia V. Chernenko</i>	72

A3 Edge Maps Vast Russian Areas <i>Yuri Raizman</i>	79
Assessment of the Possibilities of Modern Air Laser Scanning Systems for Forest Research <i>Ilya A. Rylsky, Vladimir S. Tikunov</i>	86
Ecological and Geographical Mapping of Altai Krai Land Cover <i>I.N. Rotanova, V.V. Gaida</i>	96
Relating Big Data to Local Natural Hazards: Lessons Learned from Data Mining the Twitter API for Volunteered Geographic Information on Earthquakes, Wildfires, and Prescribed Fires in the Contiguous United States <i>Jessica L. McCarty, Eugene Levin, K. Arthur Endsley, Samuel Aden, James Bialis</i>	102
Deforestation Monitoring at Different Periods by Satellite Imagery <i>Khrystyna V. Burshtynska, Yudita V. Madiar, Bohdan V. Polishchuk</i>	114
Mapping of Phytodiversity when Designing the Belokurikhinsky Nature Park <i>I.N. Rotanova, V.V. Gaida</i>	128
Remote Sensing Applications for Online Mapping of Agricultural Vegetation <i>Elena Kaziak, Alexander Leshchenko</i>	133
Remote Sensing Based Analysis of Land Cover Dynamics in the Polesie State Radioecological Reserve <i>A. Kaziak, A. Kokhno, E. Khruschova, M. Goutsaki</i>	139
Geobotanical Maps in the Atlas “Greater Altai: Nature, History, Culture” <i>I.N. Rotanova, Yu.V. Kozyreva, V.V. Gaida</i>	143