



# Commission on Mapping from Satellite Imagery

Chair: Xiaojun Yang (USA) Vice-Chair: Jonathan Li (Canada)

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## Background and Terms of Reference

The ICA Commission on Mapping from Satellite Imagery was created in 1999 as one of the seventeen commissions approved by the 11th ICA General Assembly. Serge Le Blanc (France) was Commission Chair from 1999-2003. In 2003, the 12th ICA General Assembly approved the Commission as one of the nineteen commissions. Serge Le Blanc and Graciela Metternicht (Australia) were Commission Chair and Vice-Chair. In 2005, the 13th General Assembly slightly modified the Commission name (Cartography from Satellite Imagery), and Graciela Metternicht was appointed Acting Chair and Serge Le Blanc Vice-Chair. In 2007, the 14th General Assembly approved the Commission as one of the twenty-two commissions, and Graciela Metternicht and Xiaojun Yang (USA) were Chair and Vice-Chair. Following Graciela Metternicht's resignation in late 2007, Xiaojun Yang became Chair and Jonathan Li (Canada) Vice-Chair for 2008-2011.

The Commission's terms of reference for 2007-2011 include:

- ❖ Maintain and improve the Commission's digital repository on topics related to the assessment of cartographic capabilities of various remote sensing systems.
- ❖ Produce a special journal edition reviewing the use of remote sensor data for the management of natural resources and the environment, early warning and natural disasters mitigation, or a book on Mapping from Satellite Imagery.
- ❖ Develop closer links with international organizations concerned with the use of satellite imagery (e.g., UNOOSA, UNEP, PAIGH), in view of strengthening ICA's presence.
- ❖ Promote knowledge transfer at fundamental and advanced levels on the use of satellite imagery for cartographic applications.
- ❖ Prepare promotional materials reflecting the Commission's terms of reference and activities that can be used to support ICA presence at international forums (e.g. World Map, Map Middle East, meetings of Joint Societies, UN meetings, other regional conferences).
- ❖ Network with ISRPS and other ICA commissions with similar interests in applications of satellite imagery.

## Commission-Sponsored Workshops, Symposiums, and Conferences

- ❖ **International Symposium on LIDAR and RADAR Mapping** (LIDAR & RADAR 2011), Nanjing, China, 26-29 May 2011

LIDAR & RADAR 2011 was hosted by Hohai University in Nanjing, China, with a sponsorship from the ICA Commission on Mapping from Satellite Imagery, ISPRS, FIG, SPIE, and IAG. Jonathan Li (Vice-Chair of the Commission) and Xiaojun Yang (Chair of the Commission) led the Scientific Committee.

- ❖ **Third International Conference on Earth Observation for Global Changes** (EOGC2011), Munich, Germany, 13-15 April 2011.

EOGC 2011 was hosted by the Technical University of Munich, with a sponsorship from the ICA Commission on Mapping from Satellite Imagery, ISPRS, IAG, and ISDE. Xiaojun Yang and Jonathan Li served as co-chairs of the EOGC2011 Scientific Committee.

- ❖ **ICA Workshop on Advances in Sensors and Algorithms for Topographic and Thematic Mapping** in Orlando, Florida, 19 November 2010

The event was organized by the ICA Commission on Mapping from Satellite Imagery with co-sponsorship from the ICA Commission on Geospatial Analysis and Modeling. It was held in conjunction with the Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto2010.

- ❖ **Second International Conference on Earth Observation for Global Changes** (EOGC 2009) in Chengdu, China, 25-29 May 2009

EOGC2009 was sponsored by the ICA Commission on Mapping from Satellite Imagery, together with ISPRS, IAG, and ISDE. William Cartwright (ICA President) and Zhilin Li (ICA Vice President) served in the EOGC2009 International Advisory Committee. Jonathan Li and Xiaojun Yang led the EOGC2009 Scientific Committee. Several other commission members served in the Scientific Committee.

## Publications

- ❖ **Journal Special Issue by *Environmental Management: Land Use and Watershed Assessment*** (Guest Editors: Yang, X. Chen, L., and Chen, Y.; to be published in 2012)

This special edition features the research contributed by scholars who presented a paper at the several special sessions of the 2010 Annual Meeting of the Association of American Geographers (AAG) that the ICA Commission on Mapping from Satellite Imagery sponsored.

- ❖ **Book: *Advances in Mapping from Aerospace Imagery: Techniques and Applications*** (Editors: Yang, X. and Li, J.; to be published by the CRC Press in 2012)

With contributors mainly from North America and Europe, this edited volume provides a state-of-the-art review on remote sensors and data processing techniques applied for topographic and thematic mapping.

- ❖ **Journal Special Issue: *Remote Sensing and Earth Observation for Environmental Management and Hazard Management***. Edited by Yang, X. and Li, J., published by the *IEEE Journal of Selected Topics in Earth Observations and Remote Sensing*, 4(3) (2011).

This SCI-indexed special issue is one of the four major publications as related to EOGC 2009 that our Commission sponsored.

- ❖ **Book: *Advances in Earth Observation of Global Change***. Edited by Chuvieco, E., Li, J. and Yang, X., published by Springer in 2010, 283p.

This book is one of the four major publications as related to EOGC 2009 that our Commission sponsored.

- ❖ **Conference Proceedings: *Remote Sensing of the Earth Surface Process***. SPIE Proceedings of the Second International Conference on Earth Observation for Global Changes, Volume 7471 (SPIE, Bellingham, WA, 2009) (Editors: Zhang, X. Li, J., Liu, G. and Yang, X.)