

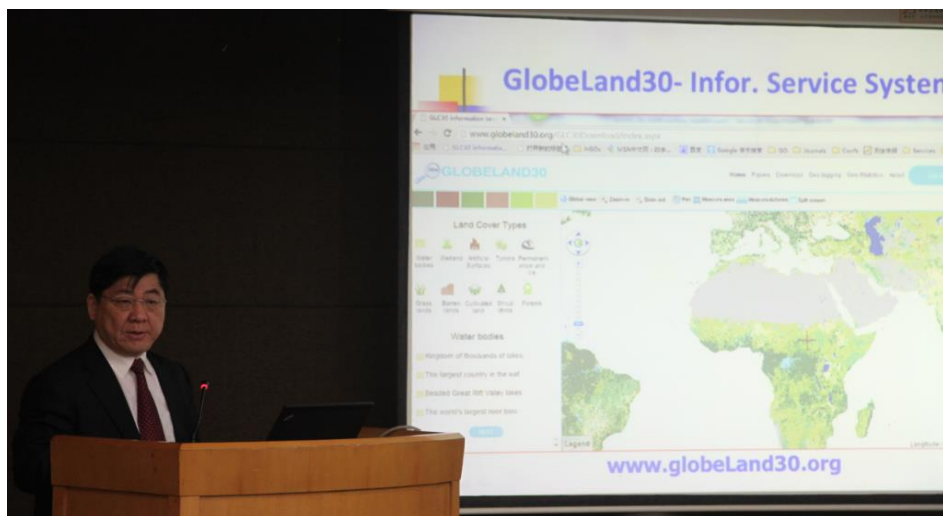
Report of ISPRS Workshop on “Mobility and Land Cover Change Mapping (MLCCM 2015)”

By Xiaoguang Zhou and Bin Zou

The ISPRS Workshop on “Mobility and Land Cover Change Mapping (MLCCM 2015)” was held in Changsha, China from December 5 to 6, 2015. The two-day workshop was organized jointly by ISPRS WG II/8 on “Mobility: tracking, analysis and communication”, ISPRS ICWG IV/II/VIII on “Global Land Cover Mapping and Services”, and the School of Geosciences and Info-Physics, Central South University, Changsha, China. About 80 participants from 18 research institutes) attended the workshop. Prof. Xiaoguang Zhou, co-chair of ISPRS WG II/8, chaired the opening session. Prof. Songnian Li, the President of ISPRS TC2, gave a welcome speech in the name of ISPRS.



Two keynote presentations and 4 invited presentations were given in the two-day workshop. The first keynote presentation was given by Prof. Qiming Zhou and the title is “Remotely sensed land cover change in Central Asia from 1990 to 2010”. Prof. Jun Chen, ISPRS president, gave the 2nd keynote presentation on “Collaborative Global Land Information Service (CoGland)”.





The 4 invited presentations were 1) “Geo-Environmental Monitoring of Coastal Zone” given by Prof. Qingquan Li, Chair of ISPRS WG II/7; 2) “Some Issues on Natural Disaster Monitoring and Assessment based on RS and GIS” given by Prof. Haigang Sui, Co-Chair of ISPRS WG VII/5; 3) “Annual Urban Dynamics Extraction and Analysis Using Landsat Time Series Data”, given by Prof. Peijun Li, Co-Chair of ISPRS WG VII/4; 4) “International Validation of Global Land Cover Datasets in 30 Meters: Methodology and Technical Specification” given by Prof. Xiaohua Tong, Co-Chair of ISPRS WG II/4.

Five technical sessions were organized in a single track, including Image-based Land Cover/Use Change Detection, Crowdsourcing and Trajectory, Land Cover Information Analysis and Service, Land Cover Data Updating and Validation. Some of the particular topics and issues addressed in the technical sessions included:

- **Land Cover/Use Change Detection:** Using minimal entropy to getting optimal segmentation scale; training samples based on original classified pixel data set for posterior data classification; using existing vector data to segment the posterior imagery preliminarily, and using the textural feature vector (TFV) to make change detection.
- **Crowdsourcing and Trajectory:** Trust Degree Computation model using contributor's reputation; collecting lane-based road information via crowdsourcing big trace data, detection and update of transport land-use data using crowdsourcing trajectory.
- **Land Cover/Use Change Validation and update:** International validation of global land cover datasets; Self-adaptive sampling approach for GlobeLand30; complex land cover polygons update; knowledge-based land cover incremental updating.
- **Land Cover/Use Analysis and Service:** Collaborative global land information service; active discovery of land cover web map services; mining regional spatial co-location patterns; GlobeLand30 information service system.

One discussion session on “Crowdsourcing-based Global Land Cover Updating” was chaired by Prof. Songnian Li, the President of ISPRS TC2.



All technical sessions were well attended and they were found very informative and interactive. Prof. Xiaoguang Zhou chaired the closing session and presented a summary and a reflection of the discussion occurred during the technical sessions. She thanked the team from central south university (Prof. Min Deng, Chong Fan, Hao Deng, Huimin Liu, Xiaoming Mei, Qiliang Liu, Chao Tao) and , Lijun Chen from National Geomatics Center of China for their hard work which made this event very successful.



For further information on this workshop, please visit:

MLCCM 2015 Website: <http://gip.its.csu.edu.cn/chs/mlccm2015/>

ISPRS TC2_ WG II/8 Website: <http://www2.isprs.org/commissions/comm2/wg8/>

