International Workshop on
Advanced Land Cover Information Technology and Applications

Caucus 11 Room, UNECA Conference Center
Addis Ababa, Ethiopia
18-19 April 2016

Programme

1. Background and Objectives

Information regarding land cover and its change (LCC) over time is essential for a variety of societal needs, ranging from natural resources management, environmental studies, urban planning to sustainable development. Mapping, monitoring and understanding LCC at national, regional and global scales is needed for implementing the 2030 Agenda for Sustainable Development, the Aichi Targets of the UN Convention on Biological Diversity, and a variety of national and sub-national development strategies.

A number of land cover datasets from local to global scales have been developed at different spatial and temporal resolutions. One recent progress is the production and open-access of the world's first 30-meter resolution global land cover map, GlobeLand30. Some advanced land cover information technology has been developed during the production and application periods of GlobeLand30 and other land cover data products such as POK-based operational mapping approach[1], web-based data verification and validation and SOA-based[2] land cover information portal.

In order to assist in capacity building on land related geospatial information and applications in developing countries, particularly in Africa, this 1.5-day workshop will be held in Addis Ababa on 18-19 April 2016, as a side event of the Fourth High Level Forum on United Nations Global Geospatial Information Management. This workshop will present the advanced land cover information technology and applications, and share the latest development with the participants.

2. Organizers

This workshop is organized by:
- Secretariat of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)
- National Administration of Surveying, Mapping and Geoinformation of China (NASG)
- Regional Centre for Mapping of Resources for Development (RCMRD)
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- CoDATA
- GEO Global Land Cover (CA-01)

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[1]An approach based on the integration of pixel- and object-based methods with knowledge (POK-based).
[2]SOA: a service-oriented architecture.

3. Programme

Venue: Caucus 11 Room, UNECA Conference Center

Date	Time	Activity
Monday April 18	**Opening**	
	09:00-09:30	Opening Remarks Self-introduction of the Participants
	Session 1: Land cover mapping	
	09:30-10:30	*Presentation 1:* Global Land Cover Mapping and Applications（Prof. Chen Jun, ISPRS President and NGCC chief Scientist) *Presentation 2*：Land Cover Mapping in East and Southern Africa - RCMRD Experience（Dr. Hussein Farah, Director, RCMRD)
	10:30-11:00	*Break*
	11:00-11:45	*Demo and Exercises* Practice on GlobeLand30 browsing and downloading
	11:45-12:30	*Discussion*: Land cover mapping status in each participant's country
	Lunch 12:30-14:00	
	Session 2: Land cover information analysis and application	
	14:00-15:30	*Presentation 3: Land Cover Change Statistics, Analysis and Updating* (Mr. Peng Shu, Senior Engineer, NGCC) *Presentation 4*: Land Cover Change Mapping Program for System Land Based Emissions Estimation in Kenya (Dr. Hussein Farah, Director, RCMRD)
	15:30-16:00	Break
	16:00-16:45	*Demo and Exercises* Practice on land cover statistics and geo-tagging tools
	16:45-17:15	*Discussion*
Tuesday April 19	**Session 3:Land cover data validation and crowdsource mapping**	
	09:00-10:30	*Presentation 5:* Validation of LC with the free and open source (Maria Antonia Brovelli, Vice Rector for Como Campus, Politecnico di Milano) *Presentation 6*: Methodology for land cover validation (Prof. Liu Chuang, Institute of Geographic Sciences and Resources, Chinese Academy of Sciences)
	10:30-11:00	Break
	11:00-11:45	*Demo and Excises* web-based validation tools and on-line validation in a test area
	11:45-12:15	*Discussion*
	Closing	
	12:15-12:30	Closing Remarks