



GLOBAL MAPPING NEWSLETTER 61

Training Sites Surveys for Indonesian Land Cover and Percent Tree Cover Map as part of Global Land Cover and Percent Tree Cover Mapping of Global Mapping Project

Syahrudin, ST. M. App. Sc.

Centre for Atlases and Spatial Planning, BAKOSURTANAL



Mangrove

Indonesian government, via BAKOSURTANAL, has been actively taking part in Global Mapping Project since 1999. The most recent contribution made by BAKOSURTANAL for the project was conducting field surveys at some pre-defined sites as the training sites for Indonesian land cover map development in 2010. The sites were evenly distributed to cover Indonesian area. Northern Sumatera, Eastern Kalimantan, and Northern Sulawesi are the areas where the surveys were conducted. Three teams were arranged and sent to those areas to get actual land cover class on the pre-defined sites. These field data are used for two purposes: as the training sites for Indonesian Land Cover development conducted by BAKOSURTANAL using MODIS Image data from ISCGM and as the training sites for Global Land Cover development conducted by working group 4 of ISCGM.

There were some preparations made before the field surveys were conducted. The first step was conducting pre-analysis for the MODIS images to find the undefined/unsupervised land cover classes based on spectral characteristic. The next step was to normalize the classes resulted from pre-analysis into the expected land cover classes. Archive high resolution images along with medium resolution images were used to verify the land cover classes for some areas and field surveys were prepared for the areas which were not covered by the satellite images. Training site selection process was based on the type of class and the location

of the sites. Mangrove and wetlands areas were the priority classes and the location should represent the geographic extend of Indonesian region: western, central, and eastern part of Indonesia.

Medan and its surrounding areas were selected as the representative area for Western Indonesia; Balikpapan and its surrounding areas for Central Indonesia, and Manado and its surrounding areas for Eastern Indonesia. Each team prepared survey maps. The maps consist of proposed survey tracks based on existing road network collected from Indonesian base maps, background images from satellite images for the selected sites, and draft of land cover map from the previous image processing. Each team was equipped with a hand held GPS receiver installed with all the tracks and location of the selected sites.

There were some transportation obstacles during the field survey, notably mangrove and wetlands areas. Since the areas were mostly remote, it was difficult to make online arrangement for water transportation vehicle in advance. This problem should be addressed for another survey in the future to have better field survey plans. Nevertheless, the field survey was successfully conducted and good results were obtained. All the selected sites were visited and observed, and all the data was delivered to the processing team as valid training sites, and the land cover and percent tree cover maps of Indonesia were expected to be launched in early 2011.



Paddy field

Author at rear left

The 18th Meeting of ISCGM

The 18th Meeting of ISCGM will be held in conjunction with 2011 Cambridge Conference according to the following schedule.

We would welcome participations from NMOs and related organizations.

Date: Saturday, June 25, 2011

Time: 10:00 - 16:00 (provisional)

Venue: Winchester Hotel, Winchester, U. K.

Time Schedule:

10:00 - 12:30 Opening and Morning session
(with a coffee break 11:00 - 11:30)

12:30 - 13:30 Lunch

13:30 - 16:00 Afternoon session and Closing
(with a coffee break 14:30 - 15:00)

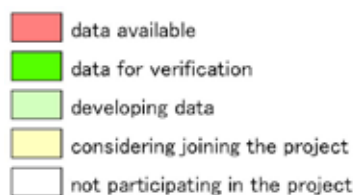
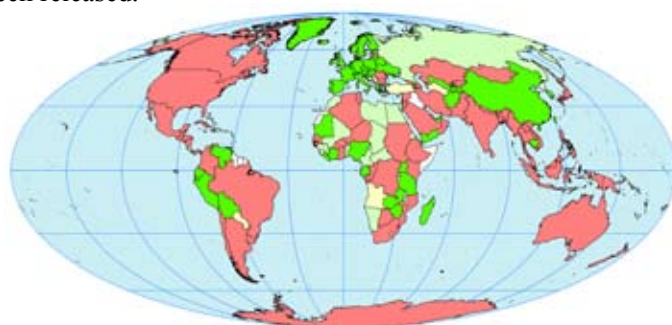
From the Secretariat

Due to the catastrophic 2011 Tohoku – Pacific Ocean Earthquake on March 11, 2011, the workforce of the secretariat of ISCGM has been concentrated to its response activities at the Geospatial Information Authority of Japan (GSI). As a result, the 61st issue of the Global Mapping Newsletter is published in a short version.

We are very grateful for and encouraged by many sympathy messages and warm words received from friends and people of NMOs and related organizations of the world.

Global Map Data Release and Participation in the Global Mapping Project

Republic of Serbia participated in the project on March 17, 2011. With its participation, 165 countries/16 regions participate in the Global Mapping Project as of March 25, 2011. Among them, data of 71 countries/4 regions have been released.



This map is for the purpose of reference and the boundaries in this map are not authorized by any organizations.

Global Map and Related Meetings

Followings are Global Map and related meetings. Information on related meetings will be highly appreciated.

2011

- **2-13 May, New York , USA**
19th Commission on Sustainable Development (CSD)
- **18-22 May, Marrakech, Morocco**
FIG 2011
- **25 June, Winchester, U. K.**
The 18th Meeting of ISCGM
- **26 June-1 July, Southampton, U. K.**
2011 Cambridge Conference

- **3-8 July, Paris, France**
XXV International Cartography Conference (ICC2011)
- **23-25 August, Perth, Australia**
The 7th International Symposium on Digital Earth (ISDE 7)
- **25-28 October, Seoul, Republic of Korea**
United Nations Forum on Global Geospatial Information Management



The Newsletter is distributed as information paper on Global Mapping to more than 1,200 people of NMOs, Global Map data users and other interested people of the world. Your contribution of articles, requests for subscription and provision of relevant information will be very much appreciated.

Published by : The Secretariat of the International Steering Committee for Global Mapping (ISCGM)

c/o Geospatial Information Authority of Japan (GSI)

1 Kitasato, Tsukuba-shi, 305-0811 Japan

Phone : +81-29-864-6910 Fax : +81-29-864-6923

Homepage : <http://www.iscgm.org>

E-mail : sec@iscgm.org