Suggested topics : Remote Sensing Applications - Forestry

Paper title : Nationwide trends of forest distribution using SPOT Vegetation time series approach in case of Myanmar

Author name (s):Naoki Mitsuzuka,Yukio Wada,Thaung Naing Oo,Myat Su Mon

Proposed presenter (s): Naoki Mitsuzuka , Yukio Wada

Abstract : Grasping nationwide forest distribution as well as locational and volumetric trends up until the present (forest dynamic grasping) is an important factor for sustainable forest management and preventing deforestation.

Aiming for above issue, we used SPOT VEGETATION 10 days composite data to make forest distribution map of whole area of Myanmar.

Harmonic Reconstruction method was applied for the time series filtering to reduce the noise of NDVI value. Forest Distribution map in each years between 1999 and 2010 were made using Harmonic Analysis Classification referencing Landsat Forest Distribution Map in 2006 and area value of total forest of Myanmar in each 5 year reported by FAO FRA2010.

Results were assessed by Landsat data on intersection point of Latitude / Longitude, 20x20 km distributed by FAO portal site. Overall accuracy were between 64-80% in 3 category forest distribution map (Closed forest ,Open forest ,Non-forest).

Additionally, Deforest/Forest Degradation map in 2005 and 2010 using above products were composed and applied for grasping the drivers causing deforestation/forest degradation in whole country of Myanmar.

Based on these Deforest/Forest Degradation maps, we studied causes of forest change by the interpretation of detailed image (Landsat , Google Earth , Bing Maps) and field research.

Naoki Mitsuzuka (E-mail:nao.mitsuzuka@ajiko.co.jp)

Yukio Wada (E-mail:yuk.wada@ajiko.co.jp)

Mailing Address:

ASIA AIR SURVEY Co,.Ltd.

1-2-2, MANPUKUJI, ASAO, KAWASAKI, KANAGAWA, JAPAN

TEL : +81-44-967-6340 FAX : +81-44-965-0032

Thaung Naing Oo(E-mail:tnoo71@gmail.com)

Myat Su Mon (E-mail:sumonforest@gmail.com)

Mailing Address:

Forest Department

Nay Pyi Taw, MYANMAR

Office Ph: +95 67 405110

Fax: +95-67-405016

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