REGIONAL FOREST OBSERVATIONS FOR SUSTAINABLE FOREST MANAGEMENT

Project introduction

The project "Regional Forest Observations for Sustainable Forest Management" was sponsored by Asia-Pacific Network for Sustainable Forest Management and Rehabilitation (APFNet), executed by Institute of Forest Resources Information Techniques (IFRIT), Chinese Academy of Forestry (CAF), and implemented together with

➢ General Directorate of Administration for Nature Conservation and Protection/MOE, Cambodia
➢ Guangxi Forest Inventory & Planning Institute, China
➢ Guangxi University, China
➢ Faculty of Forestry of National University of Laos
➢ Forest Research Institute Malaysia
➢ Forest Department, Myanmar
➢ Royal Forest Department, Thailand
➢ Forest Inventory & Planning Institute, Viet Nam
➢ Southwest Forestry University, China

This project aims to further enhance the capacity building on forest resources monitoring in the GMS and Malaysia for sustainable forest management and climate change adaptation. Specifically, based on the Phase I project achievement, this project will further enhance the capacity building of the related economies in the region on forest mapping and carbon estimation using advance remote sensing technologies and strengthen the networking in the region on forest monitoring. The outcomes of the project will support the development of forest management strategy of the economies in the region.

The area of the GMS and Malaysia demonstration project includes Cambodia, the People's Republic of China (Yunnan province and Guangxi province), Lao People's Democratic Republic, Malaysia, Myanmar, Thailand, and Viet Nam.

The primary goals of the project are

1) to further enhance the capacity on regional level forest resource monitoring and analysis through applying medium resolution remote sensing data, analyze forest changes, and link the change characteristics with forest polices;
2) to enhance the capacity on stand level forest inventory through applying high resolution remote sensing data and airborne laser scanning technology;
3) to further strengthen the networking on forest monitoring in the region through establishing a mechanism for regional forest observations and provide related capacity building supports.

Expected Deliverables

	Jan. 2018 ~ Dec. 2018												Jan 2019 ~ Dec 2019												Jan ~ Jun. 2020					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
Output 1 Forest coverage map of 2017 at 30 m spatial resolution																														
	▓	▓	▓	▓	▓	▓	▓	▓	▓																					
Output 2 Forest change and driving forces analysis during 2005~ 2017																														
				▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓									
Output 3 Stand level inventory maps using high resolution data in selected sites																														
	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓									
Output 4 Forest carbon maps estimated using ALS in selected sites																														
		▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓									
Output 5 Establish a mechanism for regional forest observations																														
	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓
Output 6 Enhance capacity building through the RFO mechanism in the region																														
				▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓

➢ Inception meeting

The inception workshop of the project was held during Jan. 25-27, 2018, Nanning, China. Each economy's work plan, data acquisition considerations and sub-contracts were presented and discussed. It also provided the venue to share experiences, practices, knowledge and lessons from countries in the region. Twenty-three technical staffs from forestry departments, research institutes, and universities attended the workshop.
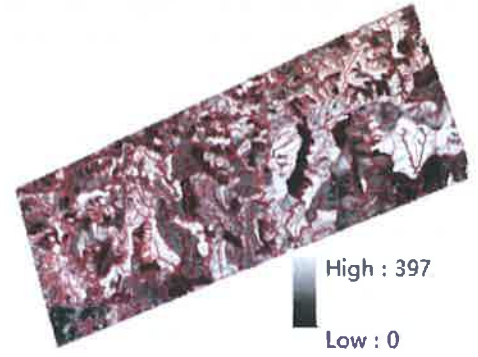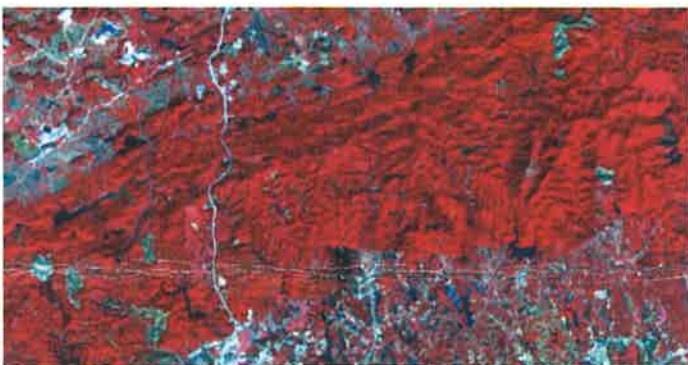

➢ Progress
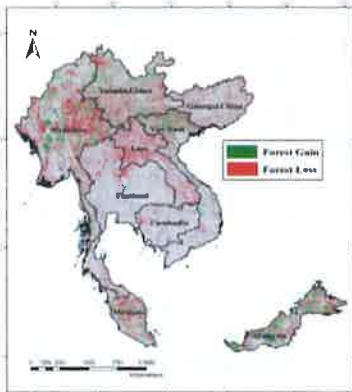
2005-2010 forest change map

use highe resolution

Stand-level forest inventory map
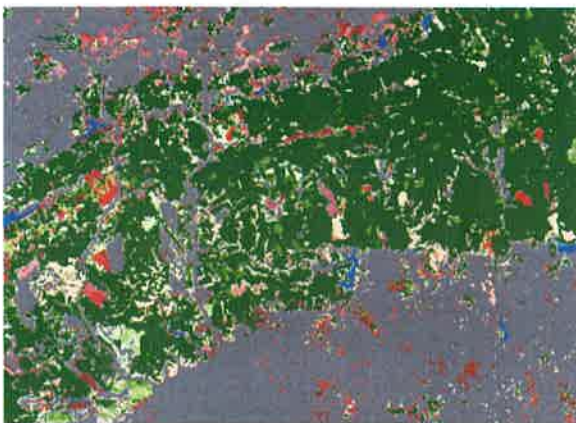

High : 397

Low : 0

Stand-level forest biomass map

Quarterly data composition (2016-Q1)

Quarterly data composition (2016-Q2)

Quarter-level forest change detection

2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
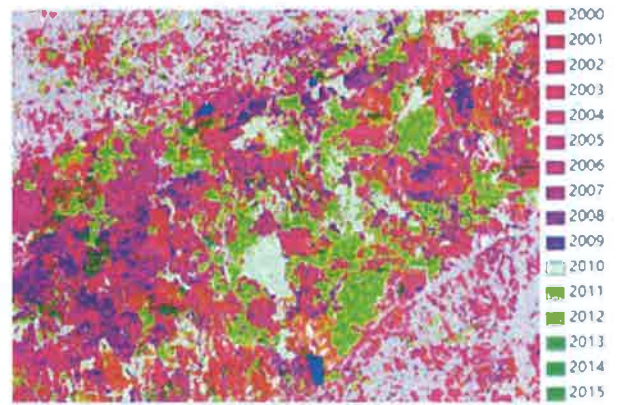
Long time-series annual forest change detection

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