

New study shows Indonesia's disastrous deforestation

June 29 2014, by Richard Ingham



This photograph taken on February 24, 2014 during an aerial survey mission by Greenpeace in Central Kalimantan province on Indonesia's Borneo Island, shows cleared trees to make way for a palm oil plantation in a Borneo forest

Satellite images have found that Indonesia's ancient forests, a cradle of biodiversity and a buffer against climate change, have shrunk much faster than thought, scientists said on Sunday.

Between 2000 and 2012, Indonesia lost around 6.02 million hectares



(14.4 million acres or 23,250 square miles) of primary forest, an area almost the size of Sri Lanka, they reported.

Primary or ancient forests are distinguished from managed forests, which are plantations of trees grown for timber and pulp.

The researchers found that primary forest loss accelerated during the period under review, reaching an annual 840,000 hectares by 2012—nearly twice the deforestation rate of Brazil, which was 460,000 hectares in the same year.

"Indonesia's forests contain high floral and faunal biodiversity, including 10 percent of the world's plants, 12 percent of the world's mammals, 16 percent of the world's reptile-amphibians and 17 percent of the world's bird species," said the study, published in the journal *Nature Climate Change*.

"Extensive clearing of Indonesian primary forest cover directly results in habitat loss and associated plant and animal extinctions."

Deforestation is also a blow to the fight against climate change, as ancient trees store more carbon emissions from the atmosphere than new ones do, and for a longer period, thus mitigating global warming.

The research, led by geographer Belinda Margono of the University of Maryland, looked at long-term <u>satellite images</u>.

During 2000-2012, total forest cover in Indonesia retreated by 15.79 million hectares, of which 6.02 million, or 38 percent, was primary forest, the investigation found.

Distinguishing between primary and managed forest is vital in the campaign to preserve biodiversity and combat <u>climate change</u>, the paper



said.

"It is critically important to know the context of forest disturbance, whether of a high-biomass natural forest or a short-cycle plantation," it said.

"Similarly, the clearing of natural forest has very different implications on the maintenance of biodiversity richness."

It noted that in 2010, the UN's Food and Agricultural Organisation (FAO) put Indonesia's overall forest loss at 310,000 hectares per year from 2000-2005, and 690,000 hectares annually from 2005-2010.

Indonesia itself, in a report to the UN's Framework Convention on Climate Change (UNFCCC) in 2009, estimated forest loss of 1.1 million hectares annually from 2000-2005.

Margono's study found the biggest losers were lowland and wetland forests in Sumatra and Kalimantan, where trees are typically chopped down by loggers for use in farming.

In other islands or island groups—Papua, Sulawesi, Maluku, Java and Bali and Nusa Tenggara—primary <u>forest cover</u> fell back only slightly or remained stable from 2000-2012.

More information: *Nature Climate Change*, dx.doi.org/10.1038/nclimate2277

© 2014 AFP

Citation: New study shows Indonesia's disastrous deforestation (2014, June 29) retrieved 25 April 2024 from https://phys.org/news/2014-06-indonesia-disastrous-deforestation.html



This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.