Embargoed until: June 17 $^{\rm th}$ 2019: 7am EST / 12pm UK time / 11am GMT



PRESS RELEASE

PeerJ – the Journal of Life & Environmental Sciences

Expanding global commodities trade and consumption place the world's primates at risk of extinction

Between 2001 to 2015, 160 million hectares of forest were lost in the tropics due to human activities, threatening primate species with extinction.

Researchers find that 50% or more of this habitat loss was due to global consumer demand for commodities.

A recent study published in the peer-reviewed journal *PeerJ – the Journal of Life and Environmental Sciences* highlights the fact that the economic benefits of commodity export for primate habitat countries has been limited relative to the extreme environmental costs of pollution, habitat degradation, loss of biodiversity, continued food insecurity and the threat of emerging diseases.

The world's primate fauna, distributed in the Neotropics, Africa and in South and Southeast Asia, represents an important global component of the Earth's land-based biodiversity. The presence and activities of primates support a range of tropical community-wide ecological functions and services that provide vital resources to natural ecosystems, including local human populations.

Alarmingly, around 60% of primate species are now threatened with extinction and ~75% have declining populations as a result of escalating anthropogenic pressures resulting in deforestation, habitat degradation, and increased spatial conflict between an expanding human population and the natural range of primates.

The study finds that growing market demands for food and nonfood commodities from high-income nations and the global community at large are significant drivers of rapid and widespread primate habitat loss and degradation.

The global consumption of food and natural resources, along with an increasingly globalized economy has created an expanding international

market for agricultural products. Such growth is also reflected in the growth of the area of deforestation that is commodity driven. Available evidence indicates that between 2001 to 2015, 160 million hectares of forest were lost in the tropics due to human activities and that 50% or more of this loss was commodity driven. That is, forests were converted to agricultural fields, cattle pastures, mines to extract minerals and metals, fossil fuel exploration, and urbanization.

Given that global commodity resource extraction is predicted to more than double, from 85bn tonnes today to 186bn by the year 2050, reversing the current trend of primate population decline and extinction due to habitat loss and degradation will require a stronger global resolve to reduce the world's per capita demand for forest-risk food and nonfood commodities from primate-range regions, while at the same time implementing sustainable land use practices that improve the standard of living for local human communities, protect local biodiversity, and mitigate climate change.

In order to avoid the impending extinction of the world's primates, the researchers suggest a number of measures to be implemented including changing global consumer habits (e.g., using less oil seed, eating less meat), the creation of an international environmental improvement fund to mitigate the negative effects of forest-risk commodities trade, and assigning responsibility for environmental damage to those international corporations that control production, export, and supply chains.

Authors Alejandro Estrada, Paul A. Garber and Abhishek Chaudhary write, "Growing global consumer demands for food and non-food commodities from primate range regions are placing primate populations at risk of extinction. These increasing demands have resulted in an accelerated global expansion of agriculture and of extractive industries and in the growth of infrastructure to support these activities leading to widespread primate habitat loss and degradation."

"Primates and their habitats are a vital component of the world's natural heritage and culture and as our closest living biological relatives, nonhuman primates deserve our full attention, concern, and support for their conservation and survivorship", Estrada argues.

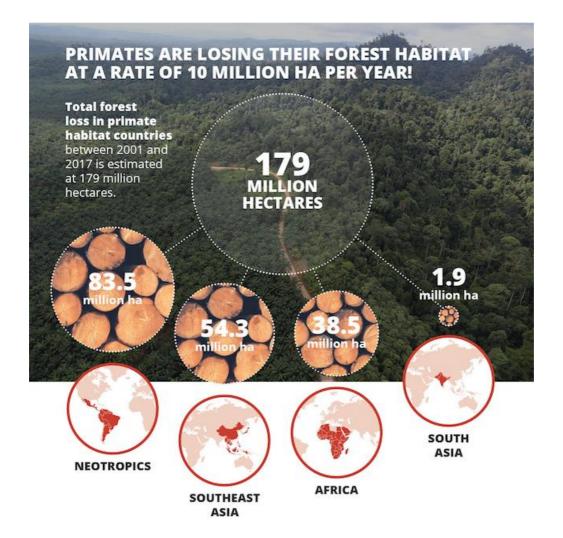
#	+	н	Н
Ħ			

Images:



PRIMATES ARE IN DANGER

The **expanded global production and international trade** in agricultural and non-agricultural products (e.g. soybean, oil palm, natural rubber, beef, forestry products, fossil fuels, metals, minerals, and gemstones) throughout the tropics **has caused widespread deforestation and environmental damage.**



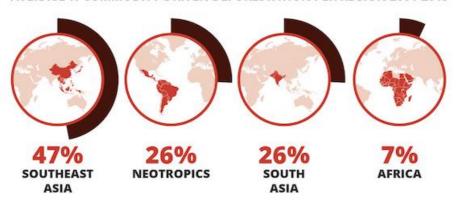
Deforestation and environmental damage put primates at risk.

60% of primates species are threatened by extinction

COMMODITY-DRIVEN DEFORESTATION

Much of the **deforestation is driven by the increasing demands** for food, energy, and precious metals by a small number of consumer nations.

AVERAGE % COMMODITY-DRIVEN DEFORESTATION PER REGION 2001-2015



WHAT SHOULD BE DONE?

Immediate action is required by governments, multinational corporations, and global citizens **to reverse the negative impacts of unsustainable commodities trade** on income inequality, the destruction of natural environments, and the loss of primate biodiversity.

For example:

- "Greening" commodities trade (e.g. sustainable agriculture and resource extraction, forest restoration)
- A global shift towards a low-meat diet
- Reduced consumption of oil seed
- Diminished use of timber, fossil fuels, metals, minerals and gemstones from the tropics
- Stronger and sustained global resolve to regulate and reverse the negative impacts of growing unsustainable global demands and commodity trade on income inequality, and the destruction of primates and their habitats.





This is an open access graphic distributed under the terms of the Creative Commons Attribution License







Image credits: All images can be shared under CC BY 4.0 license. © 2019 Estrada et al. Expanding global commodities trade and consumption place the world's primates at risk of extinction. http://peerj.com/articles/7068/

Full Media Pack including image:

https://drive.google.com/drive/folders/1KWdqUaOt38oitAnNbTNbN4CfTK4rYJOT?usp=sharing

Video Abstract:

###

EMBARGOED until June 17th 2019: 7 am EST; 12 midday UK local time; 11 am GMT (i.e. the date of publication)

Link to the Published Version of the article (quote this link in your story – the link will ONLY work after the embargo lifts): https://peerj.com/articles/7068 your readers will be able to freely access this article at this URL.

Citation to the article: Estrada A, Garber PA, Chaudhary A. 2019. Expanding global commodities trade and consumption place the world's primates at risk of extinction. *PeerJ7*:e7068 https://doi.org/10.7717/peerj.7068

###

About:

PeerJ is an Open Access publisher of seven peer-reviewed journals and a

preprint server. PeerJ's mission is to help the world efficiently publish its knowledge. All works published by PeerJ are Open Access and published using a Creative Commons license (CC-BY 4.0). PeerJ is based in San Diego, CA and the UK and can be accessed at peerj.com

PeerJ is the peer-reviewed journal for Biology, Medicine and Environmental Sciences. *PeerJ* has recently added 15 areas in environmental science subject areas, including Natural Resource Management, Climate Change Biology, and Environmental Impacts.

peerj.com/sections/

PeerJ has an Editorial Board of over 1,900 respected academics, including 5 Nobel Laureates. PeerJ was the recipient of the 2013 ALPSP Award for Publishing Innovation. PeerJ Media Resources (including logos) can be found at: peerj.com/about/press

###

Media Contacts

For the authors:

Alejandro Estrada, <u>aestradaprimates@gmail.com</u>
Dr. Paul A Garber, <u>p-garber@illinois.edu</u>, (217) 390-7679

For PeerJ: email: press@peerj.com, https://peerj.com/about/press/

Note: If you would like to join the PeerJ Press Release list, please register at: http://bit.ly/PressList