

Deforestation and Climate Change



Efforts to mitigate climate change have focused on reducing carbon dioxide (CO₂) emissions into the atmosphere. Some of these efforts center on reducing CO₂ emissions from deforestation, since deforestation releases about 17% of all annual anthropogenic greenhouse gas (GHG) emissions and is seen as a relatively low-cost target for emissions reduction. Policies aimed at reducing deforestation are central points of a strategy to decrease carbon emissions, reflected in pending legislation in Congress (e.g., H.R. 2454 and S. 1733) as well as in international discussions, such as the December 2009 negotiations in Copenhagen. Forests exist at many latitudes. Many are concerned about the possible impacts of losing boreal and temperate forests, but existing data show little, if any, net deforestation, and their loss has relatively modest carbon consequences. In contrast, tropical deforestation is substantial and continuing, and releases large amounts of CO₂, because of the carbon stored in the vegetation and released when tropical forests are cut down. There are many causes of tropical deforestation: commercial logging, large-scale agriculture (e.g., cattle ranching, soybean production, oil palm plantations), small-scale permanent or shifting (slash-and-burn) agriculture, fuelwood removal, and more. Often, these causes combine to exacerbate deforestation; for example, commercial logging often includes road construction, which in turn opens the forest for subsistence farmers. At times, tropical deforestation results from weak land tenure and/or weak or corrupt governance to protect the forests. Congress and international bodies are discussing various policies to reduce carbon emissions from deforestation and forest degradation (REDD). Reducing deforestation in the tropics is likely to have additional benefits as well, such as preserving biological

diversity and sustaining livelihoods for the rural poor and for indigenous communities and cultures. Proposals may be adapted to address local and regional causes of deforestation. Various forestry practices can reduce the impacts of deforestation, and several market approaches are evolving to compensate landowners for preserving their forests. Many challenges remain for implementing REDD programs, particularly internationally, including monitoring REDD projects and improving developing-country capacity to ensure compliance. Existing evidence on forests and deforestation suggest the difficulties might be significant. Measuring forests is complicated, with multiple definitions, inaccessible sites, and expensive, complicated, and imperfect measurement technologies. This report provides basic information on forests and climate change. The first section discusses the linkages between forests and climate. The next three describe the characteristics of the three major forest biomes, with an overview of deforestation causes and impacts. This is followed by an overview of approaches to reducing deforestation. The final section examines issues related to forest and deforestation data.

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The note **Deforestation and climate change - Wikipedia** Jul 15, 2010 Deforestation is driving climate change and pushing endangered species to the brink of extinction. According to recent estimates, Indonesia is **How Deforestation Affects Climate Change, Humans and Animals** Deforestation in the Amazon Rainforest is inextricably linked to global climate change. Learn how our work in Brazil focuses on mitigating both. **The Effect of Deforestation on the Climate and Environment** Jul 7, 1999 Tropical deforestation and climate change / edited by Paulo Moutinho and Tropical deforestation as a source of greenhouse gas emissions. **Deforestation and climate change** **Greenpeace UK** Aug 2, 2007 Deforestation plays a huge role in climate change - up to one-fifth of global emissions come from forest destruction. Protecting rainforest areas **Deforestation and Climate Change** **The Nature Conservancy** Deforestation is an important factor in global climate change. **Deforestation and Its Extreme Effect on Global Warming - Scientific** Dec 27, 2010 This posting discusses how deforestation increases global warming and and Climate Change on Our Earth and Atmospheric Carbon Dioxide **2.2.3.3. Deforestation - Land Use, Land-Use Change and Forestry** Nov 22, 2016 Responding to the election of Donald Trump as U.S. president and what that might mean for global efforts to combat climate change, Katherine **Deforestation and Climate Change - Climate and Weather** The reason that logging is so bad for the climate is that when trees are felled they Unless we change the present system that rewards forest destruction, forest Aug 22, 2016 Deforestation rates in Brazil are rising again after several years of into the atmosphere to accelerate global warming and climate change. **Deforestation impacts felt for decades - scientists** **Climate Home** Deforestation is an important factor in global climate change. By cutting down huge areas of forest, therefore, without replacing the trees that we remove, we are causing an inadvertent change in the amount of carbon dioxide in the atmosphere, which can have a huge impact on the **Deforestation Facts, Information, and Effects - National Geographic** Deforestation-driven changes to water availability and climate variability could have strong implications for agricultural production systems and food security in **Deforestation: Disastrous consequences for the climate and for food** Apr 18, 2017 From helping to mitigate climate change providing homes for many species of plants and animals (some endemic to forested regions) **Tropical Deforestation : Feature Articles - NASA Earth Observatory** **Time is Running Out: the Twin Perils of Deforestation and Climate** Nov 30, 2016 Amazon Deforestation and Climate Change. How is the worlds appetite for beef affecting the Amazon rain forest and the worlds climate? **Measuring the Role of Deforestation in Global Warming** **Union of** Current deforestation trends point toward catastrophic and irreversible losses of biodiversity and runaway climate change. With better governance and smarter **Forest and climate change** WWF Apr 3, 2017 Deforestation rates in Brazil are rising again after several years of progress against Last week, Climate Home reported that Brazils environment minister Jose 3. Where is the most vulnerable country to climate change? 4. **Deforestation and Climate Change** **Greenpeace East Asia** May 5, 2017 In todays hyper-connected world, fighting climate change and building resilience to its impact are urgent priorities for us all. Rainforest Alliance **Deforestation in the tropics affects climate around the world, study** Dec 9, 2013 Tropical deforestation accounts for about 10 percent of the worlds the last assessment of the Intergovernmental Panel on Climate Change **Brazil halves environment budget amid rising Amazon deforestation** As deforestation and forest degradation have such a significant impact on climate change, reducing forest loss can have multiple benefits for ecosystems and **Effects of tropical deforestation on climate and agriculture : Nature** Tropical deforestation accounts for about 10 percent of the worlds global warming they need to withstand the effects of climate changebut not without you. **Confirmed: deforestation causes climate change - ScienceAlert** Deforestation by definition refers to the activity of clearing the forest cover or trees on Here is a detailed discussion of how deforestation affects climate change,