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Forests are a dominant

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feature of our planet. On geological time scales they have expanded and contracted, but remain a major driver of global cycles of energy and carbon, water and nutrients. In much of the world, forests command deep respect, even reverence for what they provide.

**Frontiers in Forests
and Global Change**

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Forests hold a significant proportion of global biodiversity and terrestrial carbon stocks and are at the forefront of human-induced global change. The dynamics and distribution of forest vegetation determines the habitat for other organisms, and regulates the delivery of ecosystem services, including carbon storage.

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Forests and Global Change edited by David A. Coomes

Forests provide a range of goods and services upon which humanity depends, from local (e.g. flood prevention) to global (e.g. carbon sequestration). Yet some 13 Mha of forest is lost each year, mostly in the tropics (Canadell & Raupach 2008).

Forests and global

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change: an overview (Chapter One ...

Although some global changes are probably making forests more resilient (e.g., elevated CO₂ or possibly increased deposition of limiting nutrients from pollution or dust), many others that may...

Forest health and global change | Science

Deforestation is a

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primary contributor to climate change. Land use changes, especially in the form of deforestation, are the second largest anthropogenic source of atmospheric carbon dioxide emissions, after fossil fuel combustion.

Deforestation and global warming - Wikipedia

Forests and Global
Climate Change is the

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ninth in a series of Pew Center reports examining the potential impacts of climate change on our environment and health. A previous report in this series addressed the risks to terrestrial ecosystems posed by climate change.

**Forests & Global
Climate Change |
Center for Climate
and ...**

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Although many modeling forecasts and government policies suggest that forests must be destroyed to make way for agriculture and provide food security as the global population soars from 7.8 billion to meet U.N. projections of 9.7 billion by 2050, a new study shows that this does not have to be the case.

Forests can help

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**reshape
'dysfunctional'
global food ...**

Natural disturbances in forests, including windthrow events, insect infestations, wildfires and droughts have intensified in severity, frequency, and extent over the last few decades, and ongoing climate change is predicted to further accelerate...

Frontiers in Forests

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and Global Change | Pests, Pathogens ...

In consequence, these global models are key tools for investigating the behaviour of the land carbon sink under given future CO₂ and climate change scenarios [48,49]. The land carbon 'sink' referred to here is that created by forests as they remove CO₂ out of the atmosphere to synthesize leaves, wood and roots, some

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of which can also be released back to the atmosphere by agents of disturbance, especially fire.

Gas valves, forests and global change: a commentary on ...

A key unknown in the broad field of global climate change is how quickly forests adjust/acclimate/adapt to changing atmospheric and climatic conditions.

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Rainfall drives variation in rates of change in intrinsic

...

Forests additionally influence climate and atmospheric composition through biogeochemical processes including the exchanges of CO₂, CH₄, N₂O, biogenic volatile organic compounds, and aerosols with the atmosphere. Forest

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ecosystems are now recognized as providing important climate forcing and feedback.

Forests and Global Change | SpringerLink

Forests, especially tropical forests, play an important role in global climate change. Tree biomass stores carbon through photosynthesis, so deforestation

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contributes to carbon emissions. Tropical forests contain about 25% of the world's carbon, and other forest regions of the world add another 20% of the world's carbon.

Climate Change and Tropical Forests | Global Forest Atlas

Forests' role in climate change is two-fold. They act as both a cause and a solution for greenhouse gas

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emissions. Around 25% of global emissions come from the land sector, the second largest source of greenhouse gas emissions after the energy sector. About half of these (5-10 GtCO₂e annually) comes from deforestation and forest degradation.

Forests and climate change | IUCN

As the climate is

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changing, so too are the world's forests. From the misty redwoods in the west to the Blue Ridge forest of Appalachia, many sylvan ecosystems are adapting to drier conditions.

How forests are changing in response to global warming ...

Forests and climate are intrinsically linked: forest loss and

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degradation is both a cause and an effect of our changing climate. The agriculture, forestry and land-use sectors account for about a quarter of all global greenhouse gas (GHG) emissions and are the largest sources after cars, trucks, trains, planes and ships combined.

Forest and climate change | WWF

Land-use change is

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transforming forests
around the world.

Credit: Gergana
Daskalova. This study
used the BioTIME and
Living Planet
biodiversity
databases—that
contain data collected
by ...

Forest loss escalates biodiversity change

Forests and global
change The future of
forests in a changing
world will be debated

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at an international conference in Cambridge this week. About 15% of all carbon dioxide emitted to the atmosphere comes from tropical deforestation, while many temperate forests are net carbon dioxide sinks.

Forests and global change | University of Cambridge

Frontiers in Forests and Global Change

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launches three new sections on Forest Soils, Forest Hydrology and Forest Disturbance [...] Professors Terry Sunderland and Erin Sills on the role of people and forests in achieving the Sustainable Development Goals
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