

Peatlands

Type of wetland

The term 'peatland' refers to the peat soil and the wetland habitat

growing on its surface

Valuable ecosystem, critical for preserving biodiversity

- Important for:
 - Provision of safe drinking water
 - Minimising flood risk
 - Addressing climate change

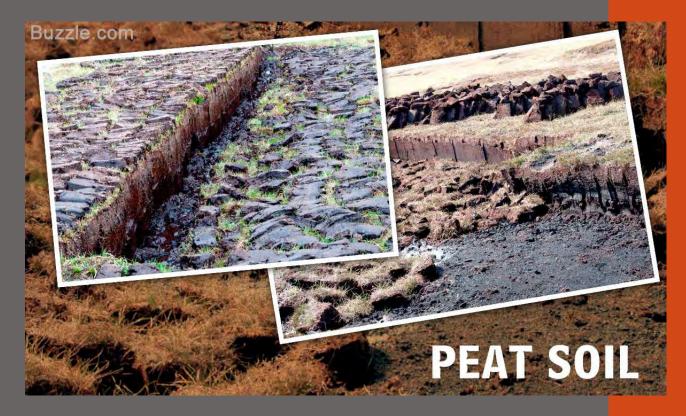


Peat soil

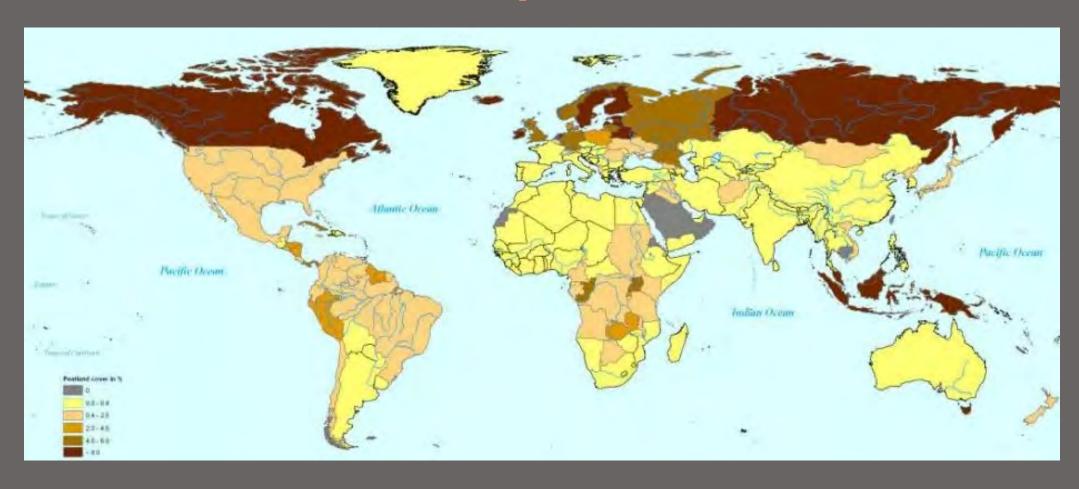
Year-round waterlogged conditions slow the process of plant decomposition to such an extent that dead plants accumulate to

form peat.

Over millennia this material builds up and becomes several metres thick.

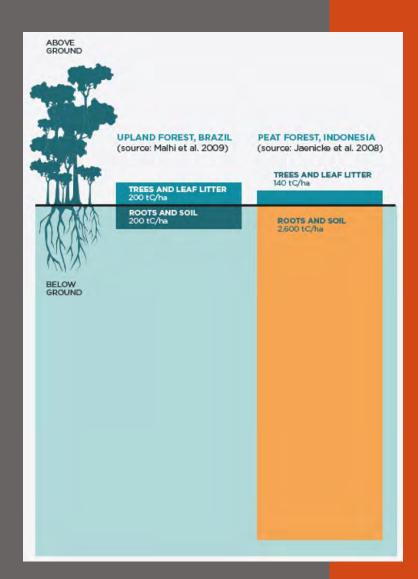


Where do we find peatlands?

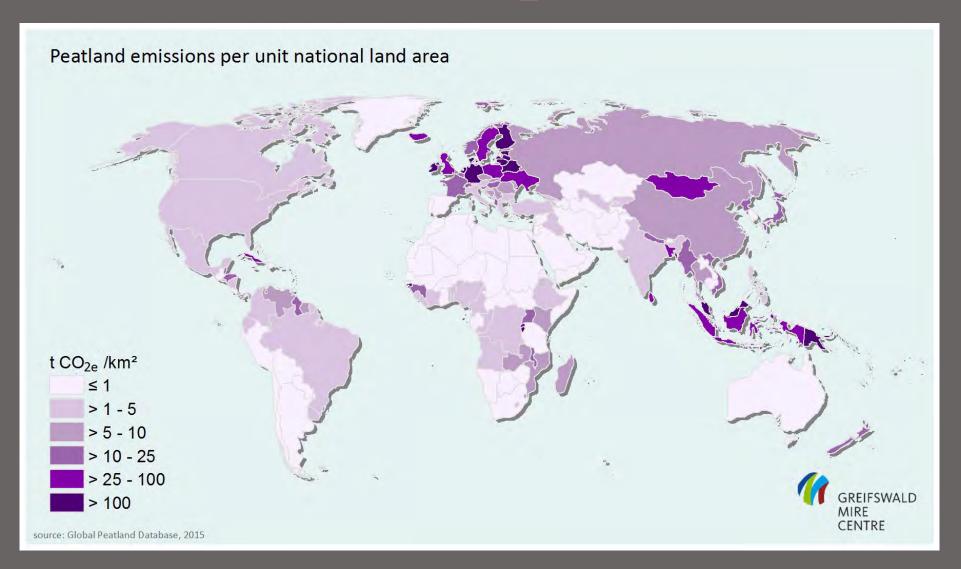


Peatlands and climate change

- Largest terrestrial carbon store
- >3million km² of peatlands sequester
 0.37 giga tonnes of CO₂/year
- Damaged peatlands are a major source of greenhouse gas emissions
- Converted peatland ecosystems release 6% of global anthropogenic CO₂ emissions
- Peatland restoration can significantly reduce emissions



Global peatland CO₂ emissions



Peatlands in Indonesia

- 36% of the world's tropical peatlands, which store up to 20 times more carbon than non-peat soils
- Home to endangered wildlife species: orang-utans,
 Sumatran Tigers, leopards and species of fish found nowhere else in the world
- Catastrophic fires of 2015 reinforced the Indonesian government's commitments to:
 - reduce peatland deforestation and fires
 - rewet and restore degraded peatlands



Peatland degradation in Indonesia

About half of Indonesia's peatlands are degraded, which causes:

- Billions of dollars in economic losses
- High greenhouse gas emissions
- Rapid subsidence of cultivated peatlands
- Increased vulnerability to widespread flooding
- Loss of areas suitable for agricultural production



Restoration measures

- Protecting peatland areas from degrading activities such as agricultural conversion and drainage
- Restoring the waterlogged conditions required for peat formation to prevent the release of carbon stored in peat soil
- Global networking and exchange





Environmental Management	Law	Communication
In its environmental strategy, Government of Indonesia prioritised: Restoring degraded peatlands Conserving remaining good peatland Providing alternative livelihood for communities living inside and surrounding peatland Developing institutional arrangements to deal with problems in peatland management Conducting research Developing better peatland management strategies	 Issuing policy and regulations for better peatland management Indonesia's Supreme Court has quashed a ministerial regulation obliging forestry companies to relinquish and protect carbon-rich concessions in protected peat areas The Ministry of Environment and Forestry exercises jurisdiction over Perhutani, the state-owned Forest Enterprise (covering two-thirds of Indonesia's land area) Zoning for either conservation, protection or production has been legally established 	 Community consultation - global and local Facilitation of community engagement Providing information on: Importance of peatland conservation Measures for sustainable management Government incentives Public Relations for BRG, relevant government departments and private sector partners using range of mass and digital media
Thanagement strategies	Law enforcement	media

Acknowledgement: Lisa Lawler

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