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Outline



- The boreal forest
- Climate change and the boreal forest
- Five factors affecting the boreal forest and climate change
- Future projections
- Current strategies and initiatives

The Boreal Forest

- Circumboreal region spans across North America and Eurasia
 - · Approximately 30% is located in Canada
- Known as the Taiga in Russia
- Covers approximately 1.43 billion hectares of land
- Contains half of the carbon in forested areas across the globe

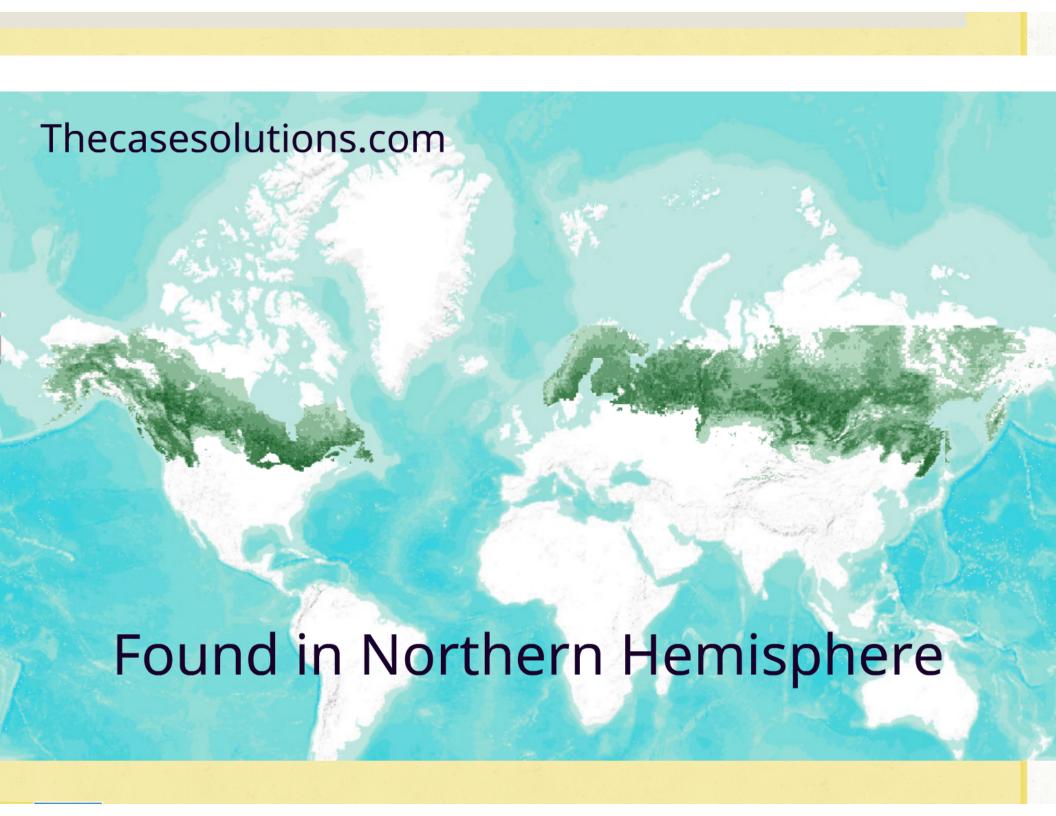




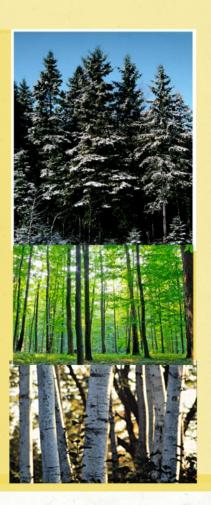


Thecasesolutions.com The Boreal Forest JAPAN Boreal Forest biome, Canada CHINA Boreal Forest biome, around the world





- Tree species that dominate this landscape are largely pine, larch, birch, spruce, fir and aspen
- Permafrost underlies about 60% of the region
- Boreal forest has the potential to alter the global climate due to its size and its sensitivity to change



Boreal Forest

and Climate Change

- · Global climate warming due to the increased concentrations of greenhouse gases
- The boreal forest stores approximately 714 billion tonnes of carbon
 - 37% of total carbon stored in global ecosystems
- Warming climate placing stress on the boreal forest ecosystem

The Global Carbon Budget Thecasesolutions.com

- Amount of carbon in boreal forests depends on growth processes and disturbances
- · Disturbances occurring more with warming climate
- Further releases carbon into the atmosphere
- · Some areas becoming carbon sources

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The Global Carbon Budget Thecasesolutions.com

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