

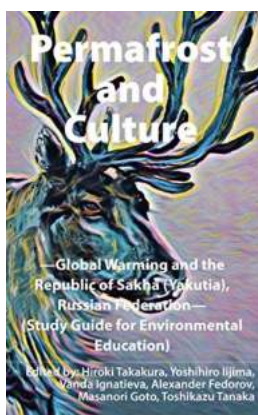
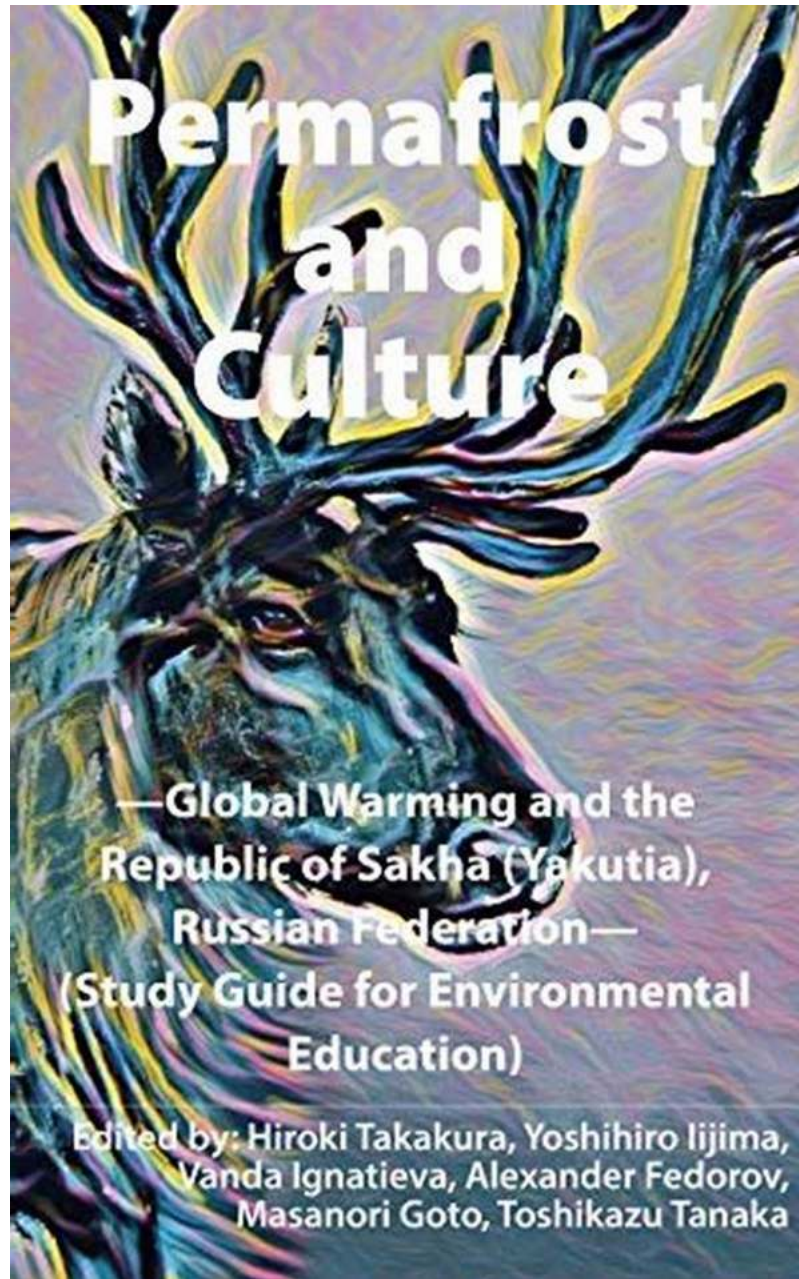
# **Global Warming and Sakha Republic Yakutia Russian Federation Cneas Report 26: Uncovering the Realities and Impacts on the World's Coldest Region**

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Global warming is an issue that has been extensively discussed and debated in recent years. Numerous studies have focused on the impact of rising temperatures and climate change on various parts of the world. However, there is one region that has largely been overlooked when it comes to understanding the consequences of global warming – the Sakha Republic, also known as Yakutia, in the Russian Federation. A groundbreaking report by the Chinese National Environment Analysis System (CNEAS) titled "Report 26: Global Warming and its Impact on Sakha Republic Yakutia" sheds light on the critical situation in this coldest inhabited region on Earth.

## **The Sakha Republic Yakutia and Its Unique Geography:**

Sakha Republic, commonly referred to as Yakutia, is located in the northeastern part of the Russian Federation. It encompasses a vast area of approximately 3.1 million square kilometers, making it the largest subnational governing body by area globally. Despite its tremendous size, Yakutia's population is relatively small, with only around 1 million inhabitants. The region boasts breathtaking natural landscapes, including the Lena River, the second-longest river in Russia, and the Verkhoyansk Range, known for its extreme cold temperatures.



**Permafrost and Culture: Global Warming and Sakha Republic (Yakutia), Russian Federation (CNEAS Report Book 26)** by Angang Hu (Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English

File size : 7349 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Word Wise : Enabled  
Print length : 94 pages



Yakutia's unique geographic location makes it especially vulnerable to the impacts of global warming and climate change. The region experiences long, bitterly cold winters, with temperatures dropping as low as -67.7 degrees Celsius (-90 degrees Fahrenheit) in some areas. However, over the past few decades, these extreme cold temperatures have been slowly giving way to milder winters and hotter summers, significantly altering the region's climate patterns.

### **The CNEAS Report 26: Unveiling the Truth:**

In their extensive study, CNEAS analyzed various environmental factors and gathered data from multiple sources to assess the current state of Yakutia's climate and the role global warming plays in it. The report revealed alarming findings that have substantial implications for both the region and the world at large.

### **Rapidly retreating permafrost:**

Permafrost, the perennially frozen ground found in Yakutia and other Arctic regions, is experiencing a fast retreat due to rising temperatures. This process not only affects the stability of infrastructure built on permafrost but also releases massive amounts of carbon dioxide and methane into the atmosphere. These greenhouse gases further contribute to global warming, creating a dangerous feedback loop that accelerates climate change.

### **Increasing wildfire risks:**

As temperatures continue to rise, the risk of wildfires in Yakutia has also significantly increased. The CNEAS report highlights that between 2001 and 2020, the total area affected by wildfires in the region has tripled. The intense heat and parched vegetation create the perfect conditions for wildfires to spread quickly and result in enormous environmental damage.

### **Threats to local communities and flora/fauna:**

Yakutia is home to numerous indigenous communities whose lives are intrinsically connected to the natural environment. Climate change poses a severe threat to their traditional way of life, as rising temperatures and shifting weather patterns impact hunting, herding, and fishing practices. Moreover, the unique flora and fauna of Yakutia face potential extinction or migration as their habitats transform due to global warming.

### **Call to Action: Urgent Measures to Combat Global Warming in Yakutia and Beyond:**

Addressing the challenges presented by global warming in Yakutia requires a collective effort at both local and international levels. The CNEAS report emphasizes the following key actions:

#### **Investment in sustainable infrastructure:**

The construction of infrastructure on permafrost needs to adapt to the changing conditions. Implementing sustainable building techniques and materials can minimize the negative impact on the environment and help mitigate further climate change.

#### **Promoting renewable energy sources:**

Reducing Yakutia's reliance on fossil fuels is vital in tackling global warming. The region has immense renewable energy potential, particularly in hydropower and

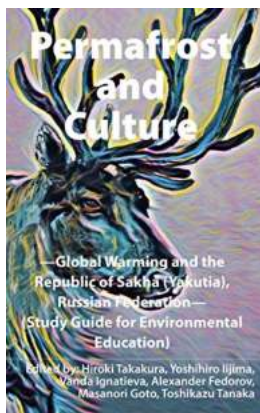
solar energy. Investing in renewable energy infrastructure can play a significant role in reducing greenhouse gas emissions and fostering a sustainable future.

## **Preserving indigenous knowledge and culture:**

Collaborating with indigenous communities and integrating their traditional knowledge into climate adaptation strategies is essential. Supporting their cultural preservation efforts and respecting their rights and interests can contribute to a more thorough understanding of sustainable practices and the protection of biodiversity.

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The CNEAS Report 26 serves as a wake-up call to the world, shedding light on the pressing issue of global warming in Yakutia, one of the coldest regions on Earth. The findings of this report should serve as a catalyst for urgent action to combat climate change, not only in Yakutia but globally. By understanding the realities and consequences of global warming in regions such as Yakutia, we can work together to develop effective strategies that safeguard our planet for future generations.



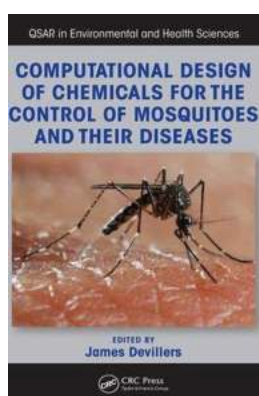
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This book is an attempt to understand the impact of Climate Change on the Arctic human societies from the indigenous perspectives, by focusing on the peoples living in the Republic of Sakha (Yakutia) of the Russian Federation. Historically, and also today, the livelihood of the Sakha people is closely related to permafrost. Scientific evidence shows that the thawing of the permafrost through climate change is causing severe problems on a global scale, which is alarming both international organizations and global citizens. Scientific studies confirming actual changes to the local environment, and the communities in permafrost areas are published continuously in academia. However, it is questionable whether scientists are adequately communicating this information to both the general public and the local populations. Climate change is a global phenomenon; however, it often manifests itself as regional and local natural disasters, which makes that it is essential to view climate change from a regional perspective. Therefore, focusing on particular regions and examining specific situations in detail provides a more accurate picture of the global situation.



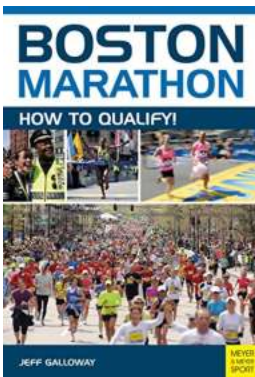
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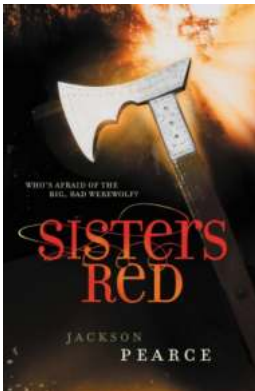
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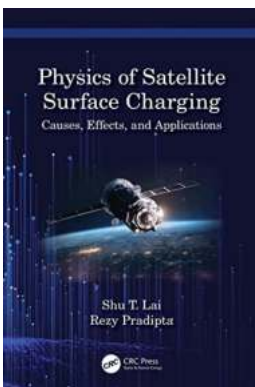
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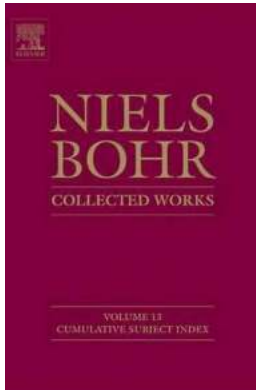
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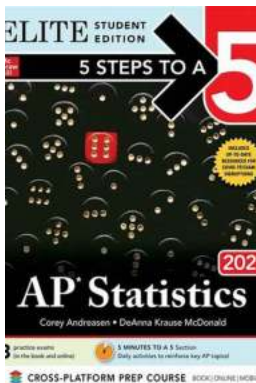
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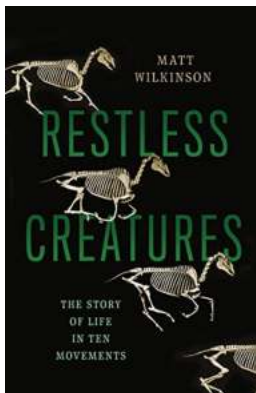
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