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Author for correspondence: Grace Natalia Bornok Siahaan e-mail: grace.siahaan@gmail.com Promoting Global Peace:
The Role of Biodiversity
Conservation, Climate
Action, and
Environmental Diplomacy

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This study aims to analyze the role of biodiversity conservation, climate action, and environmental diplomacy in promoting global peace. The research method used involves literature study and analysis of relevant data from reliable sources. The result show that biodiversity conservation is the main foundation for advancing global peace and this is achieved by diminishing conflicts of resources, health, and well-being. Climate action have also been found a crucial component to prevent forced migration and displacement of communities; and thus, fosters global efforts towards peace. In addition, environmental diplomacy, which facilitates cooperation and reduces conflicts, also plays a vital role in global pursuit of peace. In conclusion, the integration of protection and conservation of biodiversity, climate action, and diplomacy in environmental affairs in a holistic manner can result in sustainable global peace.

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#### 1. Introduction

In the context of sustainability, global peace deals with peace with nature and other species. Therefore, it necessitates tackling environmental issues to reduce conflict over resources. Hence, biodiversity conservation, climate action, and environmental diplomacy are key aspects in achieving global peace.

Global peace aligns with health, safety, economic stability, and the overall quality of life. For instance, peaceful condition is met when basic needs like food and adequate living conditions are fulfilled for everyone, particularly those belong to the poorest groups of people.

One of the major disruptions to global food security is climate change. Consequently, substantial investment in mitigation and adaptation practices is necessary to guarantee food availability in vulnerable regions. One way to reduce the risk of resource scarcity is by maintaining agricultural biodiversity, including crop and livestock diversity, that not only supports food production, but also enhances resilience to climate-induced events.

Preserving biodiversity also contributes to global health, leading to peace. This is because medicinal plants provide key healthcare solutions, for example, C. lansium in cancer treatment, and Lamiaceae family medicinal plants for pain reliever.

To ensure global and lasting peace, multiple countries and international organizations must be involved in implementing biodiversity conservation and climate action. This is done through environmental diplomacy that encourages collective solutions to environmental threats and maintaining global peace. Key aspects of environmental diplomacy include international agreements and treaties, cooperation and negotiation, policy development and implementation, and linking environmental and socio-economic goals.

Previous research has examined these factors individually; however, global peace associated with the fulfillment of these elements collectively remains a challenge. For this reason, addressing this problem is paramount to enable the implementation of innovative solutions for enhancing global peace.

By investigating the integrated role of biodiversity conservation, climate action, and environmental diplomacy, this study aims to provide a comprehensive understanding of how these areas support global peace. Through an exploration of these interconnected components, the research seeks to offer practical insights for public and private sector to achieve sustainable global peace.

#### 2. Research Method

This study employs qualitative approach and uses secondary data from literature and reports to investigate the role of biodiversity conservation, climate action, and environmental diplomacy. This method allows for a comprehensive understanding of the research problem. Secondary data will be obtained from existing literature related to enhancement of biodiversity conservation, climate action, and global environmental diplomacy.

Overall, the qualitative method allows for a comprehensive exploration of the complex interplay between conservation of global biodiversity, climate efforts, and diplomatic engagement on environmental concerns, providing valuable insights for theory development and practical implications for global peace.

#### 3. Result and Discussion

#### Impacts of Biodiversity Conservation on Global Peace

Conserving biodiversity is fundamental for human well-being as it provides essential ecosystem services such as food, disease management, mental and physical health, as well as climate regulation.

Biodiversity ecosystems provide crop diversity, contributing to food security and nutrition. This is because different crop varieties may have varying tolerances to climatic conditions such as drought, heat, or excessive rainfall. This diversity allows for adaptation to changing environmental conditions, reducing conflicts over scarce resources stemming from crop failures due to extreme weather events.

Likewise, many medicines for various diseases are derived from plant and animal products. For instance, the use of meat of Capra hircus (goat), monkey, and rabbit to treat chronic diseases such as hepatitis C, cancer, epilepsy, and asthma. In addition, eugenol supplementation, or clove oil, enhances gut health, thereby improving overall well-being.

Furthermore, biodiverse ecosystems play a crucial role in disease control by maintaining balanced populations of hosts, vectors, and predators. For instance, diverse bird populations can help regulate mosquito numbers, lowering the risk of diseases like malaria.

Having access to green spaces and biodiverse environments also improves mental health and well-being. This is because natural settings offer recreational opportunities that lower stress level and enhance physical health through activities such as walking, hiking, and birdwatching.

Additionally, biodiversity conservation helps protect humans from natural disasters including flood control. Excess water is absorbed by natural forests like wetlands and mangroves, reducing flood risks. This protection is particularly critical for vulnerable communities living in rural and remote areas with limited access to infrastructure, healthcare, and emergency services.

Another contribution of biodiversity conservation to global peace is it slows climate change, especially through carbon sequestration and temperature regulation. Forests, for instance, act as carbon sinks. Carbon dioxide from the atmosphere is absorbed and stored in plant biomass and soils. This reduces the amount of greenhouse gases in the atmosphere. Moreover, vegetation cools the air by providing shade and releasing water vapor through

transpiration. This lessens the impact of extreme temperatures due to the cooling effect that aids in stabilizing local and regional climates.

Economic stability can also be achieved through conserving biodiversity. For instance, work opportunities in fields such as eco-tourism, sustainable agriculture, and forestry offer stable incomes and reduce poverty, thereby contributing to financial security.

Overall, the impacts of biodiversity conservation on global peace cannot be overstated. Conserving biodiversity helps in crop variety, medicinal plants and animals, as well as disease control, contributing to nutritional, food security and health. Also, it protects human from natural disasters and decelerates climate change, enhancing the well-being. Finally, mental and physical well-being, along with economic stability, are attained from natural areas and rich biodiversity through walking, trekking, and birdwatching activities, while providing employment opportunities. These biodiversity impacts, when combined, foster global peace by reducing conflicts related to human well-being.

#### The Role of Climate Action in Nurturing Global Peace

Climate action goes beyond environmental protections; it also aims to address other potential conflicts triggered by climate change such as forced migration and community displacement. Through climate action, global peace is attained.

The major reasons of involuntary migration and community relocation is environmental degradation and extreme weather events induced by climate change. Higher temperatures alter precipitation patterns and increase frequency of extreme weather events, creating pressures on ecosystems and amplifying environmental degradation.

Because of climate change, extreme weather events like hurricanes, heatwaves, droughts, and floods, become more frequent and severe. These events can lead to damage to infrastructure, loss of lives, disruption of ecosystems, and economic instability.

The consequences of climate change discussed earlier shows that

climate action is imperative for a more peaceful world as it not only protects the environment, but also safeguards human security. Taking climate action will lead to a more stable socio-economic condition, thereby advancing peace and stability. This means the number of mass migrations coming from vulnerable regions who face climate-related challenges such as food insecurity, natural disasters, and economic disruptions are lowered by taking climate action.

Two approaches to tackle climate change, promoting stability and paving the way for global peace, are through climate mitigation and climate adaptation strategies. Climate mitigation involves reduction of greenhouse gas emissions and utilization of renewable energy. This way, nations enjoy energy security, while working towards halting their dependence on fossil fuels. To accelerate this transition, government incentives and funding are encouraged. Additionally, planting trees aims at absorbing carbon dioxide from the atmosphere can be an effective strategy.

Climate adaptation efforts, on the other hand, involve enhancing infrastructure resilience such as building flood barriers and reinforcing buildings against earthquakes and hurricanes. Establishing early warning systems for extreme weather events, aiming to alert communities and facilitate timely evacuations, is another measure that can be taken. To reduce the impact of disasters like landslides and storm surges, it is essential to implement sustainable management of natural resources such as forests and wetlands. Lastly, community empowerment is also paramount. This can be done through education and awareness programs addressing disaster risks, evacuation routes, and emergency preparedness.

Overall, climate action through adaptation and mitigation strategies enhances community and ecosystem ability to withstand and recover from extreme weather events and natural disasters, thereby fostering stability and ultimately advancing global peace.

#### Environmental Diplomacy for Sustainable Global Peace

Biodiversity loss and climate change are global challenges, requiring international collaboration among nations. To address these issues and foster global peace, environmental diplomacy

comes into effect. It promotes peace through dialogue and mutual understanding, tackling common environmental challenges that trigger potential conflicts. This involves negotiations and implementations of international agreements and collaborations to address environmental problems.

Addressing shared challenges like climate change and biodiversity loss that transcend national borders is one example of environmental diplomacy, aiming to achieve sustainable global peace. This type of diplomacy encourages countries to collaborate in finding solutions to these shared problems, reflecting mutual responsibility and promoting a sense of global solidarity.

Environmental diplomacy also aids in preventing resource conflicts over natural resources such as forests and fisheries, particularly in areas where they are lacking. To reduce the likelihood of disputes and foster cooperative management, environmental diplomacy establishes agreements that help regulates equitable and sustainable use of these resources.

Two examples of environmental diplomacy are the Paris Agreement on climate change and the Convention on Biological Diversity. These international agreements show how international collaboration can lead to collective action, safeguarding shared resources and achieving socio-economic goals.

Various ways of the Paris Agreement can lead to sustainable global peace are climate change mitigation, promotion of energy security, support to vulnerable nations, and international cooperation.

Even though the Paris Agreement aims to limit global temperature increase to well below 2 degrees Celsius above pre-industrial levels, it strives for a limit of 1.5 degrees. This effort to mitigate climate change helps lessen the risks of extreme weather events, rising sea levels, and other climate effects that can destabilize regions and lead to conflict over resource scarcity.

Furthermore, the Paris Agreement promotes energy security by transitioning to renewable energy sources and reducing reliance on fossil fuels, typically found in geopolitically sensitive regions. This shift lowers geopolitical tensions and bolsters energy security, leading to global stability and peace.

Moreover, the Paris Agreement provide financial and technical supports to vulnerable nations like developing countries for climate adaptation and mitigation. These supports help the nations build resilience to climate impacts, while reducing social risk and political unrest caused by climate-related disruptions.

Lastly, the Paris Agreement contributes to global peace by fostering international cooperation on climate action. This shows a sense of shared responsibility and mutual support. With this, trust is built, and diplomatic relations are strengthened.

Similarly, the Convention on Biological Diversity is instrumental in advancing global peace. Healthy ecosystems ensure that essential services such as food and medicine are met; thereby reducing competition over these resources.

In addition, the Convention nurtures global peace by enhancing ecosystem resilience to environmental shocks such as natural disasters and climate change impacts. Resilient ecosystems provide reliable resources and reduce the risk of displacement and conflict.

Together, environmental diplomacy such as the Paris Agreement and the Convention on Biological Diversity help in fostering sustainable global peace by creating a comprehensive framework for tackling climate change and biodiversity loss, two of the most pressing environmental challenges facing the world today.

### Integrating Biodiversity Conservation, Climate Action, and Environmental Diplomacy for Lasting Global Peace

To achieve lasting global peace, it is fundamental to integrate biodiversity conservation, climate action, and environmental diplomacy. Each aspect plays a significant role and, when combined, creates a comprehensive strategy for sustainable global peace.

Biodiversity conservation is critical for they provide essential services like food and medicine, supporting long-term human wellbeing and stability, and ultimately contributes to global peace.

Climate action, especially alleviating greenhouse gas emissions and promoting renewable energy sources, is vital. Climate change

is a pressing issue and through mitigating its impacts, we reduce the frequency and severity of extreme weather events and environmental degradation which potentially lead to resource scarcity and community displacement. Climate adaptation additionally enhances community resilience, aiding societies better cope with and recover from climate-related disruptions.

The final strategy, environmental diplomacy, involves international cooperation and agreements to tackle global environmental issues including climate change and biodiversity loss. Through diplomacy, countries negotiate and implement collective actions, aiming to combat climate change and protect biodiversity. This collaborative approach like the Paris Agreement and the Convention on Biological Diversity reflects a shared commitment to foster global peace.

In addition, combining biodiversity conservation, climate action, and environmental diplomacy creates a holistic strategy for lasting global peace. Firstly, conserving biodiversity and addressing climate change can reduce competition and potential conflicts over resource scarcity. This is due to sustainable use of natural resources.

Secondly, economic stability. Investment in renewable energy, for instance, can create economic opportunities and reduce poverty, one of the driving factors of conflict and instability.

Additionally, building community resilience. This results from climate adaptation and biodiversity conservation, reducing the risk of displacement as part of environmental shocks.

Moreover, enhancement of international cooperation resulting from environmental diplomacy. Trust is built and tensions between nations is lowered through shared environmental goals and collaborative action.

Following are innovative solutions focusing on policy recommendations that integrate biodiversity conservation, climate action, and environmental diplomacy, which may create substantial value for society. Each recommendation is complemented by SMART indicators, ensuring they are Specific, Measurable, Achievable, Relevant, and Time-bound.

The first policy recommendation is investment in the development of new technologies that support sustainable practices in agriculture, energy, and conservation. Using SMART indicators, by December 31, 2025, allocate at least 10% of the national research and development budget to technologies aimed at reducing greenhouse gas emissions, enhancing biodiversity monitoring, and promoting renewable energy adoption. For example, soil sensors to monitor soil health and moisture levels, optimizing irrigation and fertilizer use. Furthermore, innovation in renewable energy can be, for instance, advanced battery technologies that store surplus renewable energy for use during peak demand times or whenever renewable generation is low. In terms of conservation technologies, wildlife tracking can be beneficial. The movement and behavior of wildlife, aiding in conservation efforts and habitat protection, are monitored by using GPS (Global Positioning System) collars and camera traps.

The second policy recommendation is encouraging businesses to adopt sustainable models that integrate climate action and biodiversity conservation into their operations. Using SMART indicators, by December 31, 2024, establish a certification program and certify 500 businesses that meet these criteria by the end of 2025. A combination of incentives and regulations are indispensable to encourage the businesses to adopt such models.

Types of incentives include financial incentives and low-interest loans. Financial incentives encompass providing tax credits, grants, or subsidies for businesses that follow sustainable practices, such as renewable energy adoption, or biodiversity conservation initiatives. Furthermore, the implementation of low-interest loans can be through financing option offer with favorable terms for businesses investing in sustainable technologies or practices. Also, government procurement policies will be implemented to prioritize purchasing goods and services from businesses that demonstrate commitment to sustainability and environmental stewardship.

Besides incentives, regulations and standards also play a pivotal role in the adoption of sustainable business models. Firstly, enforcing regulations that mandate environmental compliance, such as emissions limit, and habitat protection requirements. Secondly, setting targets and benchmarks for businesses to achieve specific environmental goals, such as diminishing carbon emissions, or enhancing biodiversity on their premises.

Moving forward, the strategy is a policy that supports creation or development of new products and services that contribute to climate resilience and biodiversity conservation. Using the SMART indicator, by December 31, 2025, fund 50 start-ups or projects through grants and incentives that offer innovative solutions for biodiversity conservation and climate adaptation.

Another strategy entails enacting new policies and regulations that enforce environmental standards and promote sustainable development. Using the SMART indicator, by December 31, 2025, regulations requiring all new infrastructure projects to include climate impact assessments and biodiversity protection plans, with at least 75% compliance by the end of 2026 will be implemented.

Lastly but not least, enhancement of international cooperation through environmental diplomacy, thereby strengthening international agreements on climate and biodiversity issues. Using SMART indicator, by December 31, 2024, at least two new international agreements that focus on cross-border conservation efforts and joint climate action initiatives are successfully negotiated and ratified.

All in all, the integration of biodiversity conservation, climate action, and environmental diplomacy is essential for building a sustainable and peaceful world. Collaboration in these fields can address the root causes of conflict, enhance resilience, and promote international cooperation, ultimately paving the way for lasting global peace.

#### 4. Conclusion

Global peace remains a central concern for international communities seeking to thrive in sustainable environments. However, this article reveals that focusing on three key areas, biodiversity conservation, climate action, and environmental diplomacy, nations across the globe can achieve and sustain global peace.

By analyzing the role of each factor, this article highlights that biodiversity conservation is a key cornerstone for achieving global peace especially in terms of food security, health, well-being, and climate control. Additionally, climate action, which includes adaptation and mitigation strategies, promotes global peace through stability, preventing forced displacement and community migration. Finally, environmental diplomacy which enhances cooperation through international agreements, has also proven to be an important strategy in nurturing global peace.

In this conclusion, emphasis is placed on the importance of integrating all these factors holistically, where biodiversity conservation, climate action, and environmental diplomacy support and enhance each other. By doing so, sustainable global peace can be achieved as these aspects help to alleviate the root causes of potential conflicts. The next step is to continue to deepen the understanding of these fields through advanced research and practical application in various organizational contexts.

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