

Achieving the **2010** Biodiversity Target



Biodiversity and Climate Change : considerations for development planning

United Nations Convention on Biological Diversity

Section 1: Impacts of Climate change on biodiversity

Section 2: Impacts of biodiversity on climate change

Section 3: Climate change, biodiversity and development planning







Section 1: Impacts of Climate Change on Biodiversity

CBD

Millennium Ecosystem Assessment – climate change is the second greatest threat to biodiversity

- Climate change is changing species through:
 - shifting habitat
 - changing life cycles
 - the development of new physical traits



Climate change is reducing the ability of indigenous and local communities to sustain traditional, biodiversitybased livelihoods

Section 1: Impacts of Climate Change on Biodiversity



Section 2: Impacts of Biodiversity on Climate Change

Biodiversity can contribute to climate change adaptation and mitigation through:

- Reducing emissions from deforestation and other forms of habitat destruction
- Providing a 'safety net' of genetic resources for adaptation
 - Providing protection (bioshields) against the negative impacts of climate change such as flooding, coastal erosion, etc.





Section 2: Impacts of Biodiversity on Climate Change

CBD



2010 Biodiversity Target Section 3: Climate Change, Biodiversity Loss and Development Planning

- Biodiversity loss linked to climate change can counteract poverty alleviation measures by:
- Negatively impacting natural resource based livelihoods such as tourism, herding, the exploitation of non-timber forest products, hunting, gathering and fishing
- Increasing vulnerability to external shocks such as drought, floods, and pests



• Increasing migration in response to lost ecosystem services including food, fuel, water



Section 3: Climate Change, Biodiversity Loss and Development Planning

- Escalating food insecurity. Most studies agree that a 2.5 °C temperature increase will lead to an increase in world food prices
 - Traditional knowledge and culture which cannot be sustained within changing climate conditions
- Indigenous and local communities subjected to 'environmental genocide'





Section 3: Climate Change, Biodiversity Loss and Development Planning For example...

Women in the Cook Islands have noticed a scarcity of pupu shells which are used in local handicrafts. The decline is linked to warming sea temperatures

The Sami people have observed changes in species composition in traditional reindeer grazing lands. These changes are impacting reindeer health

Rising sea levels, desertification and shrinking freshwater supplies will create up to 50 million environmental refugees by 2010

In Vanuatu and entire village was forced to relocate inland as a result of rising sea levels



Section 3: Climate Change, Biodiversity Loss and Development Planning

Examples of indigenous and local communities that are particularly vulnerable to the negative impacts of climate change include:







Section 4: Response of the Convention on Biological Diversity

Climate change and biodiversity are addressed by the CBD through:

- The cross-cutting issues on biodiversity and climate change and the ecosystem approach
 - The Ad Hoc Technical Expert Group on climate change and biodiversity
 - Climate change components within all programmes of work of the Convention
 - Joint work undertaken with the UNFCCC on technology transfer, vulnerability and adaptation, and reducing emissions from deforestation





Section 4: Response of the Convention on Biological Diversity

- Article 8j on local and indigenous communities
 and traditional knowledge
- The Akwé:Kon Voluntary Guidelines for the Conduct of Cultural, Environmental and Social Impact Assessment regarding Developments Proposed to take place on, or which are Likely to Impact on, Sacred Sites and on Lands and Waters Traditionally Occupied or Used by Indigenous and Local Communities



