MAINSTREAMING ADAPTATION IN DEVELOPMENT PLANNING AND ASSISTANCE:

A Joint Project between the OECD Environment and Development Co-operation Directorates

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DEVELOPMENT AND CLIMATE CHANGE PROJECT

- Context: Traditional OECD work on Annex-1 mitigation issues. Adaptation and Development work relatively recent. Main link is through bilateral and multilateral donors which comprise of OECD members.
- Overall objective: to examine synergies and conflicts in mainstreaming responses to climate change within development planning and assistance

Case Studies: In Bangladesh, Egypt, Fiji, Nepal, Tanzania and Uruguay.



Three-tier framework for country case studies

1.

Development context and climate change impacts

- Geographic, demographic and economic overview.
- Identification of sectors and regions vulnerable to climate change impacts.

2.

Linkages between climate change and development plans

- Review of relevant economic, environmental and social plans (such as PRSP, NSSD, NEAP) for attention to climate change impacts.
- Assessment of attention to climate change in donor aid portfolios.

3.

In-depth thematic, regional, or project level analysis

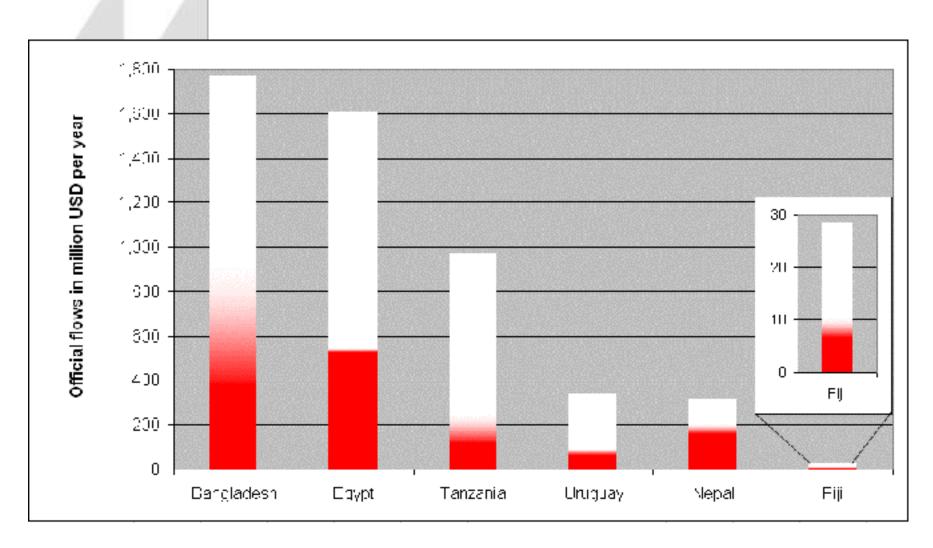
- Examination of benefits and trade-offs in incorporating responses to climate change in particular development policies and projects.
- The focus will be on natural resource management issues such as forest policy, coastal zone management, and water infrastructure projects.

Some Climate-development Themes for In-depth Analysis

- Ice Cap Melt and Forest Fires on Mount Kilimanjaro
- Water Resource Management on the Nile
- Glacier Retreat and Glacial Lake Outburst Flooding in Nepal
- Coastal Flooding and Impacts on Sundarbans in Bangladesh
- Carbon Sequestration and Land Use Policies in Uruguay
- Coastal Mangroves in Fiji
- Coastal Zones in Uruguay and Egypt



Key Findings 1: Significant shares of core development activities are potentially affected by climate change





Key Findings 2:

 Significant progress has been made on climate change specific responses (national institutional mechanisms; V&A assessments)

However, Progress on Mainstreaming is Mixed

- "Supply push" at mainstreaming in early stages in Bangladesh and Fiji. But.. limited attention in development planning (yet).
- "Demand pull" (from sectoral planners) to incorporate climate concerns in Nepal. But.... limited attention from climate community.
- There is also limited or no attention to climate change in national planning, donor documents, environmental reports, PRSPs.



Key Findings 3: There is a Need for a Differentiated Adaptation Strategy

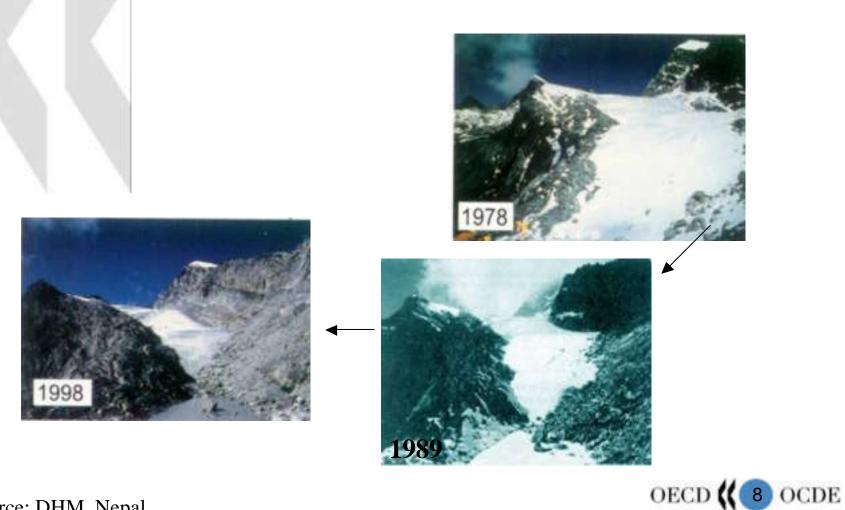
> Only precautionary adaptation advisable in some cases prior to updating national climate scenarios and impact assessments.

Linked adaptation strategies that reduce harmful impacts and enhance beneficial impacts should be also be explored

> There are however a growing number of cases where medium-long term climatic trends warrant adaptation responses that go beyond coping with variability.

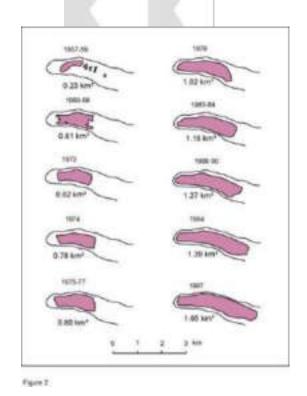


Trends: Glacier Retreat in the Himalayas



Source: DHM, Nepal

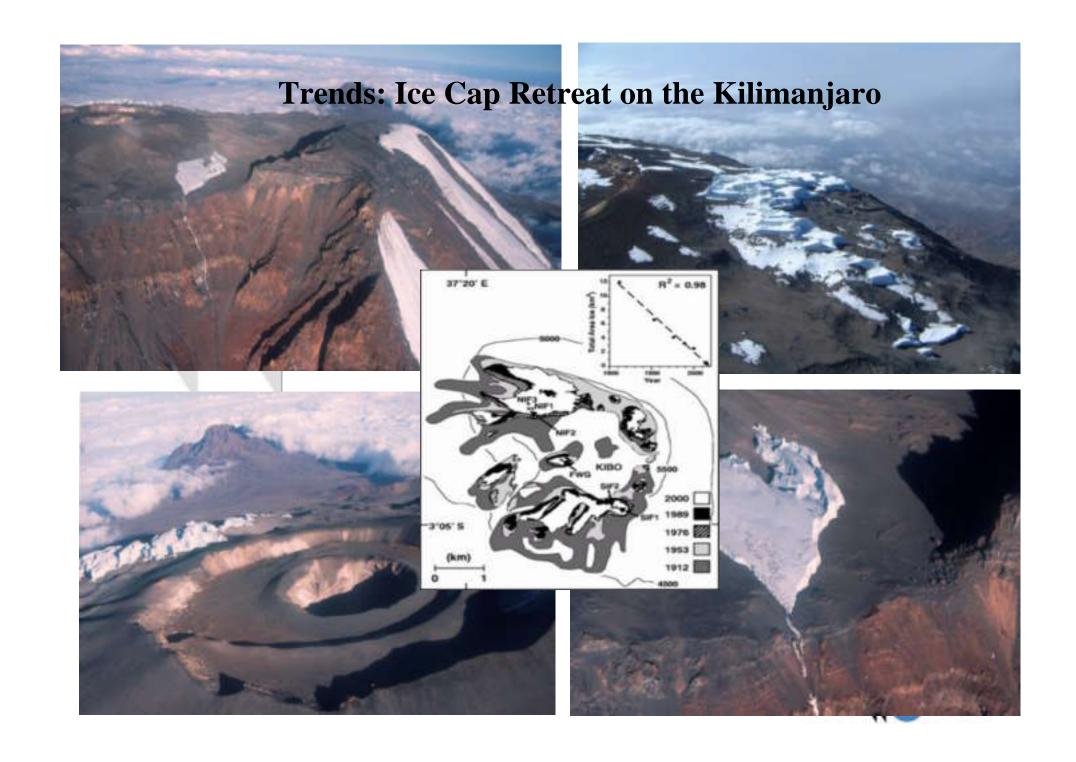
Trends: Glacial Lake Expansion in the Himalayas



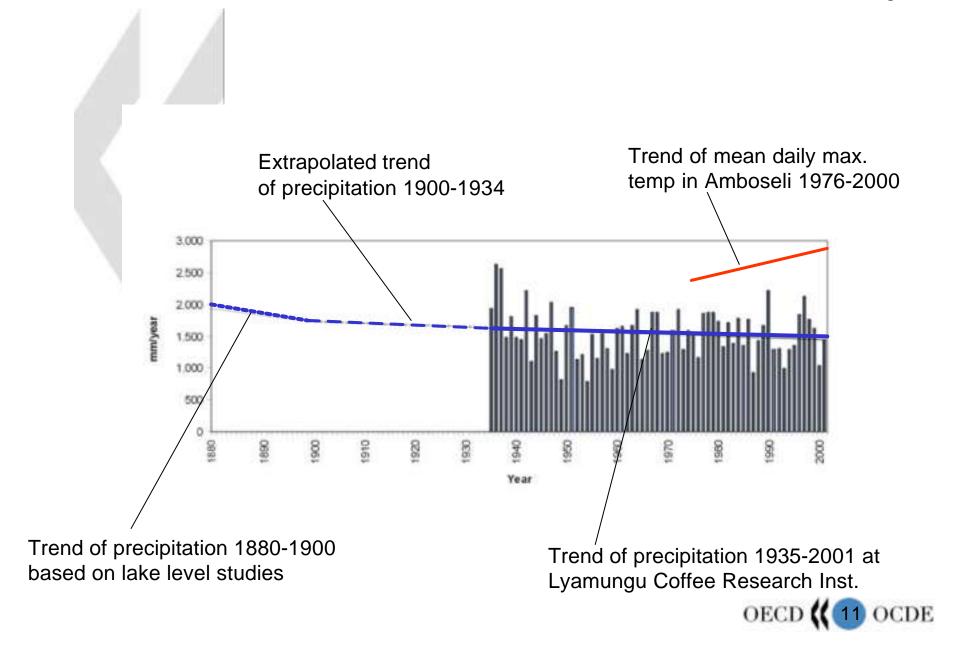


Source: DHM Nepal

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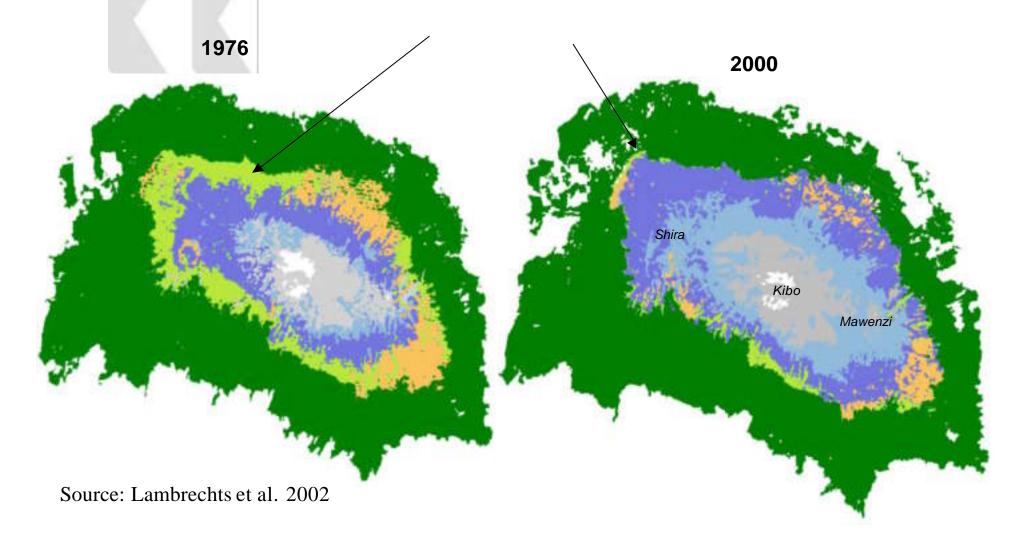


Trends: Warmer and Drier Conditions around Mt. Kilimanjaro



Trends: Climate Trends and Kilimanjaro Forest Fires

Warmer, drier conditions have enhanced forest fires and destroyed most of the *subalpine Erica forest* that traps thousands of cubic meters of water from fog.



Kilimanjaro Ice Cap vs. Fire: Impact on water balance

Annual water output (million cubic meters)		
Entire loss of Ice Cap (possible by 2020)	Destroyed 130 km ² Erica forests (between 1975-200)	Total Loss of 1000 km ² Erica Forest (possible within 5 years)
0.9	58.5	1,300
Cumulative Water output until 2020		
2.6 km ² Glaciers	Destroyed 130 km ² Erica forests	1000 km ² Forest
18	1,170	26,000

Key Findings 4: There are both Synergies and Conflicts between Adaptation and Development

> **Synergies**: Many key adaptations are already underway to cope with current vulnerabilities (forest protection, dredging of rivers to enhance flow...).

Does climate change adaptation require anything different?

Conflicts: Storage Hydro (Nepal); Mangrove Valuation (Fiji); Shrimp Farming and Upstream Water Diversion (Bangladesh)

How can such conflicts be meaningfully resolved?

Key findings 5: The Real Challenge to Mainstreaming Adaptation is Not Planning but Implementation

Many adaptations that climate change might require have already been proposed (but not successfully implemented) in prior sectoral plans

New Plans Won't Work if there is a Poor Track Record of Implementing Old Plans

Next Steps and Further Information

- Country case studies available at OECD website
- OECD Global Forum on Sustainable Development –
 Development and Climate Change Paris, November 11-12 2004
- Synthesis Report to be published in mid-2005

www.oecd.org/env/cc

