

CC DARE

Climate Change and Development
Adapting by Reducing Vulnerability

Water Resources, Water & Sanitation (+Health) in Uganda April 2008

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Outline

- **Water: A critical resource in growing demand**
- **Climate change: Temperature & precipitation**
- **Uganda's vulnerability issues**
- **CC-DARE Programme**
- **Knowledge gaps & discussion**

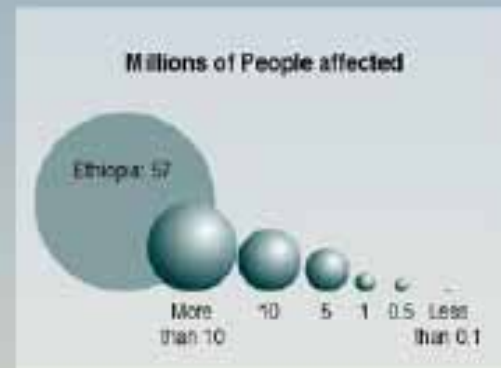
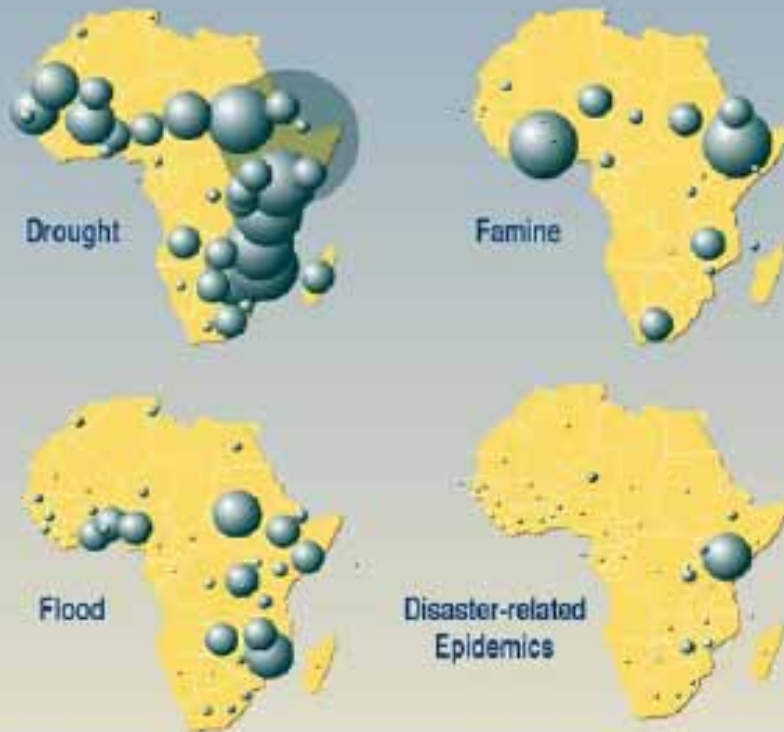
Water: A critical resource

- Domestic use
- Agriculture
- Industry
- Energy
- Transport
- Livelihoods
- Ecosystems
- Tourism
- Sanitation
- Disposal



Water-related disasters

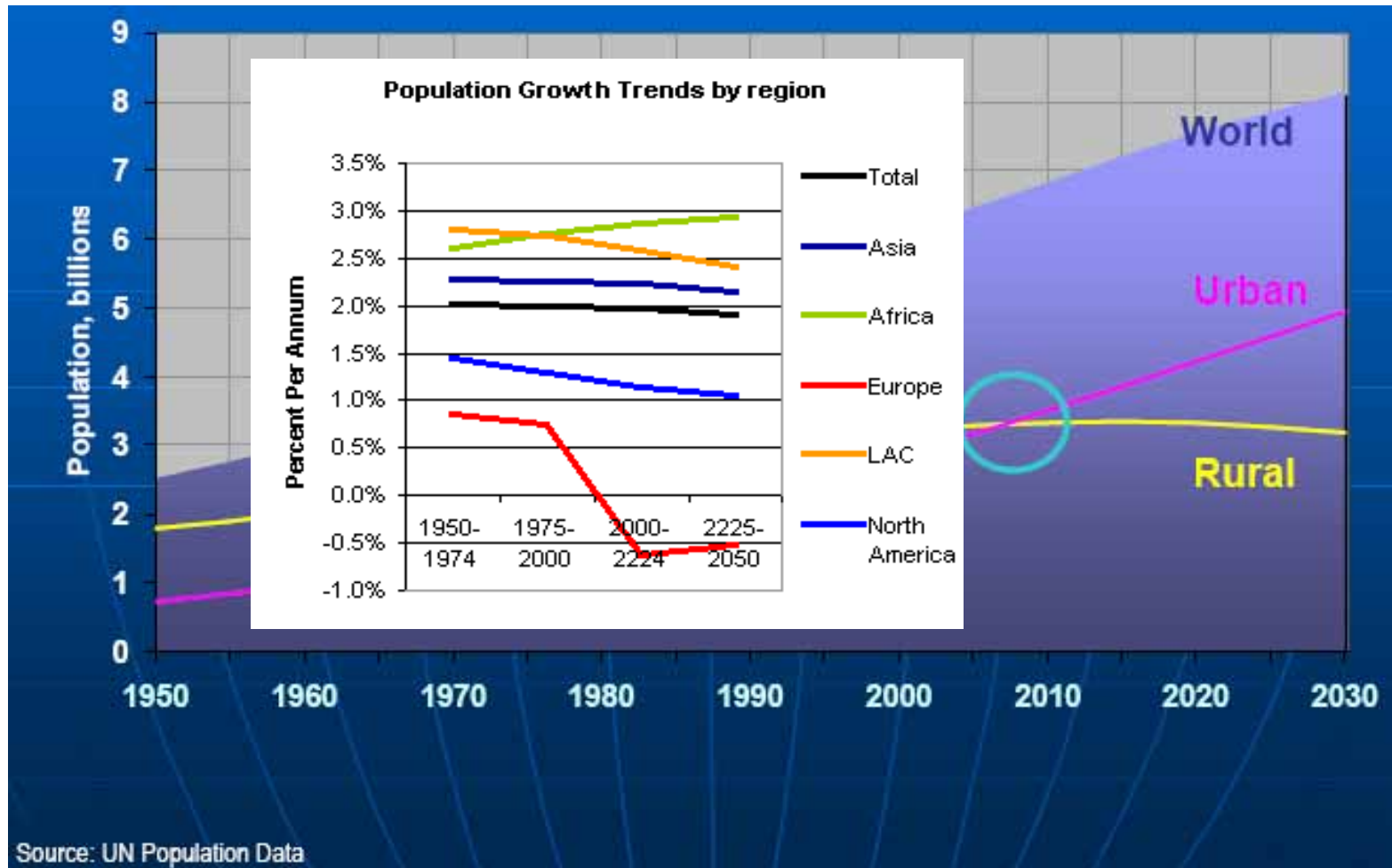
People Affected by Natural Disasters between 1971-2000



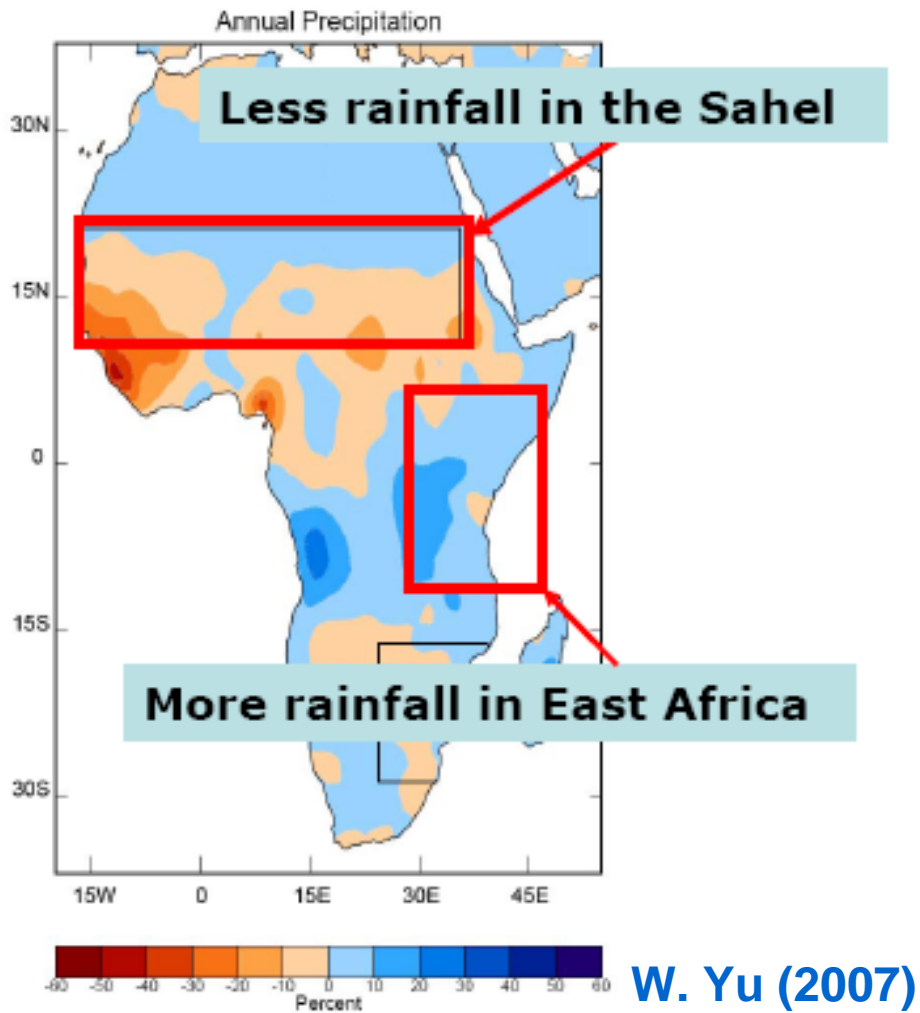
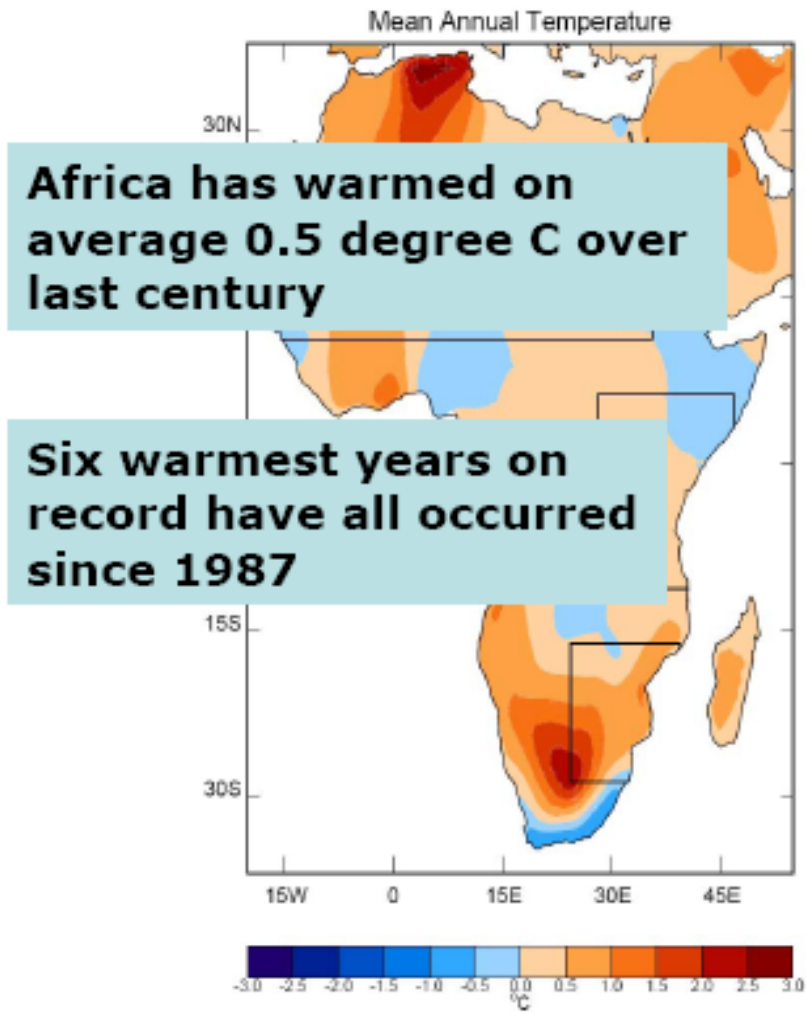
- One third of African people live in drought prone areas
- 220 million are annually exposed to drought

W. Yu (2007)

Population growth



Africa's temp & rainfall past 100 years



W. Yu (2007)

Temp & percipitation projections

Temperature:

- Expected to increase 2°- 6° C (over the next century) with greatest impact over the semi-arid margins of the Sahara and central southern Africa and least in equitorial latitudes and coastal environments

Percipitation:

- Projected future changes in mean seasonal rainfall in Africa are less well defined...but timing & availability are major issues

W. Yu (2007)

Uganda's water related vulnerabilities

According to sources such as:

- National Adaptation Programme of Action
- Various reports
- Newspapers & other media
- Local observations

Increased Floods and droughts leading to...

Food insecurity



Land erosion



Reduced water availability



Limitations to energy production



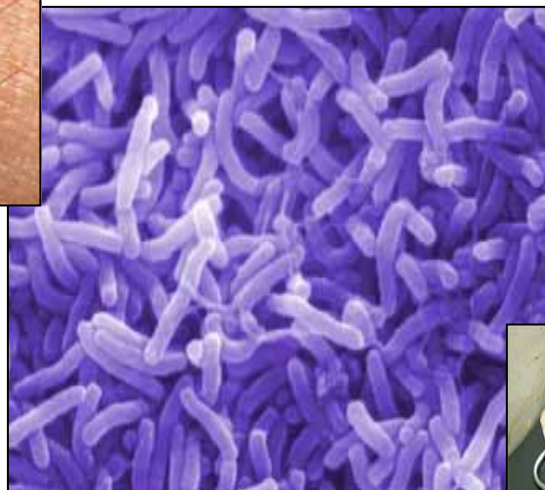
Pollution

...from industrial and domestic sources

...exacerbated by warmer water



Health issues

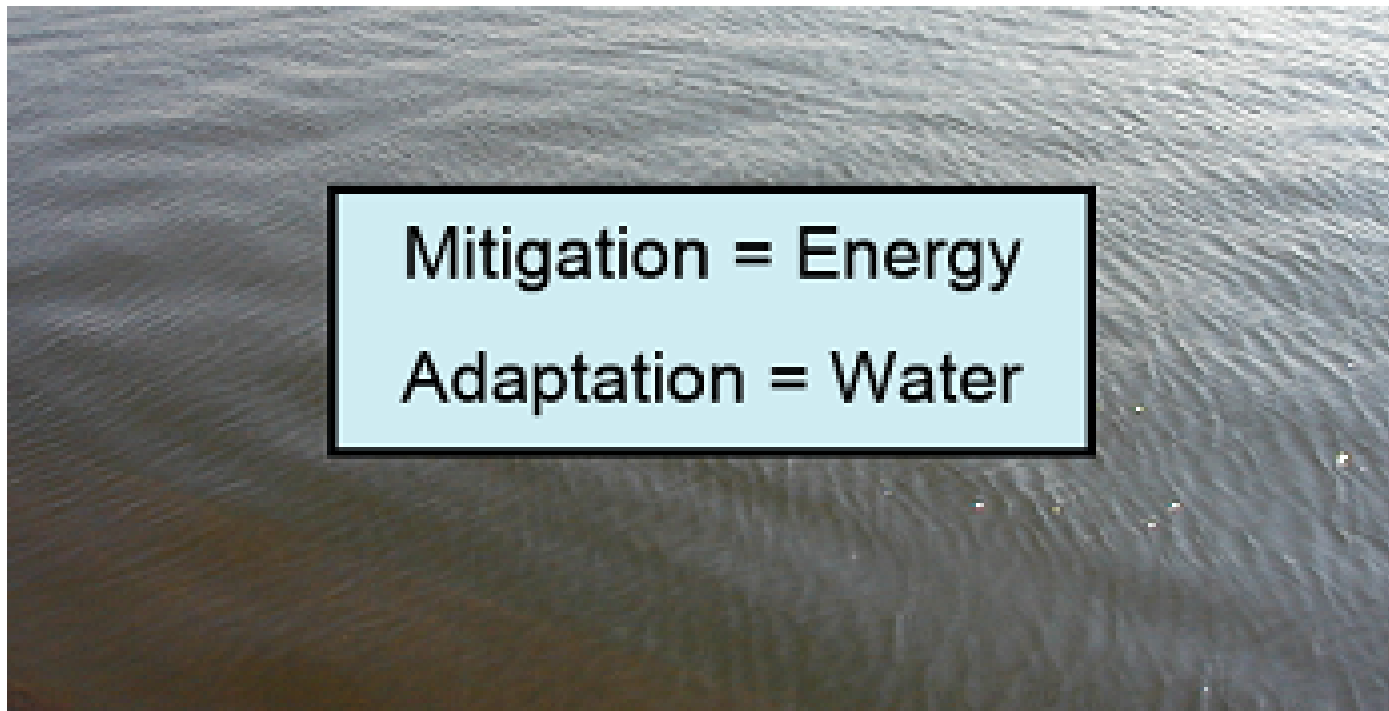


Social & economic impacts

Potential negative impacts:

- Lower per capita GDP
- Lower life expectancy & higher infant mortality rates
- Lower adaptive capacity
- Weak governance

CC-DARE Reducing vulnerability through adaptation



CC DARE Objectives

- Enhanced knowledge, skills and partnerships in systematic mainstreaming of climate change issues;
- Stronger technical and institutional capacities for identifying, prioritizing and implementing cost-effective adaptive measures consistent with national development goals;
- Materials documenting the experience and knowledge gained to allow others to benefit from the evolving body of best practices;
- Refined or strengthened national adaptation plans and policies;
- Enhanced regional cooperation on climate change issues.

Capacity building

Assistance

Technical & financial support to:

- Government agencies
- Educational institutions
- Experts
- NGOs
- Private sector

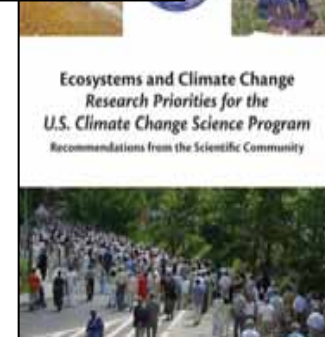


Sign language for help

Support for...

For example:

- Technical studies & reports
- Proposal development
- Workshops
- Plan formulation
- Training programmes
- Development of media
- Campaigns



Knowledge gaps?

- **Analysis of how water-interested sectors are collaborating with each other, as well as with relevant national and regional data and information centres**
- **Identification of socio-economically vulnerable areas based on criteria including health, agriculture, infrastructure, political, economic and environmental considerations**
- **Assessment of potential impacts on fragile ecosystems, including proposals of appropriate actions**

Knowledge gaps?

- **Analysis of climate variability coping strategies that local communities already undertake, as well as relevance and possibilities for dissemination to others**
- **Assessment of progress towards integrated water resources management (IWRM) and how implementation can be accelerated and/or further supported in environmentally sensitive areas**

Knowledge gaps?

- **Analysis of the extent to which adaptation issues are integrated in national policies, strategies and legislation of relevance for the management of water resources and the broader environment**
- **Assessment of the awareness and knowledge among decision makers in the key water-interested institutions**
- **Study of variability in water availability and demand (e.g. using environmental flows) and impact on various cross-sector activities**

Knowledge gaps?

- **Outline of vulnerability criteria such as costs (e.g. financial, social and environmental) connected to poor sanitation and polluted water, as well as interventions needed**
- **Assessment of the need for and adequacy of additional adaptation measures within the water sector, such as water-harvesting initiatives**
- **Climate proofing ongoing community-based water supply and sanitation programmes (e.g. in terms of planning and execution)**

Knowledge gaps?

- Your ideas...

Discussion & next steps

- How can such ideas be framed to:
 - 1) Suit your organisation's interests?...and
 - 2) Feed into ongoing or planned initiatives?
(e.g. National Development Plan, Climate Unit, Sector Investment Plan (SIPs), Second national communication etc)
- What ideas do you have for CC DARE project proposals?
- Is how to apply for assistance clear?
- Do you need help to prepare the proposals?
- Proposed proposal deadline May 9th 2008

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Thank you for your attention

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