



**ENVIRONMENTAL CHALLENGES IN AFRICA:
Climate Change**

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Africa



- Tropical wet
- Tropical wet and dry
- Semiarid
- Desert

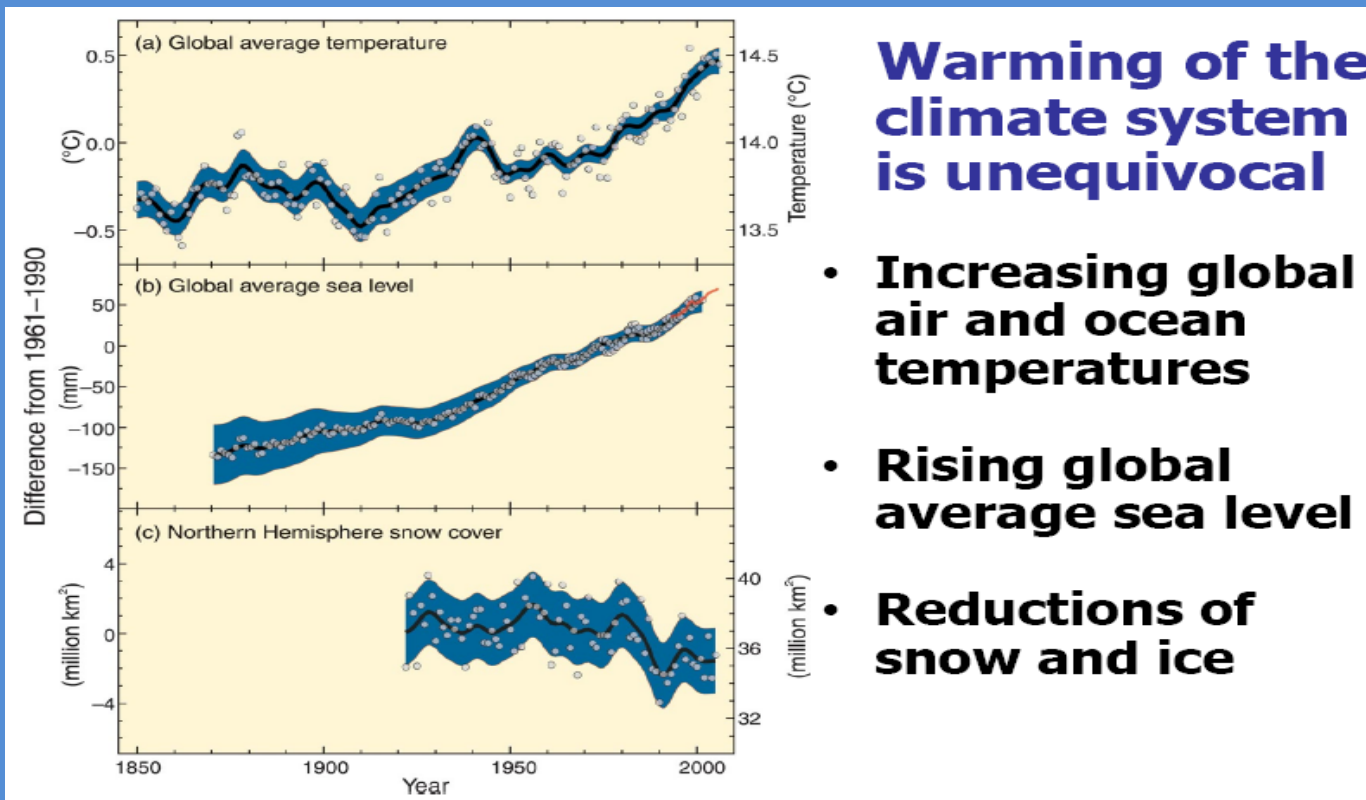
- Subtropical dry summer
- Humid subtropical
- Humid oceanic
- Highland



HUMAN WELL- BEING AND ENVIRONMENT IN AFRICA

- Environmental risk factors account for about 23 % of all deaths in Africa
- 26% of overall per capita wealth in low income countries tied to environmental assets
- More than 70% of Africans depend directly on natural resources for their livelihoods
- Devastating effect of climate change

Climate change



Climate change is NOT just a future problem

Climate Change Vulnerability in Africa

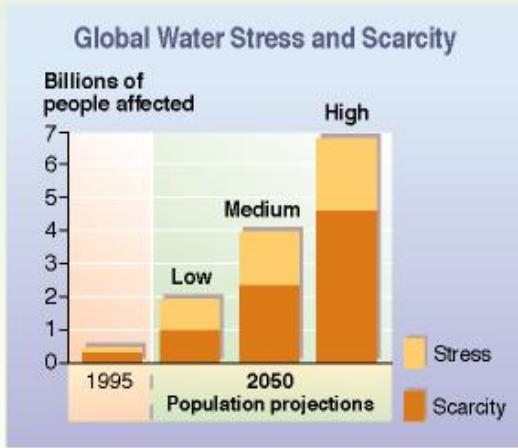
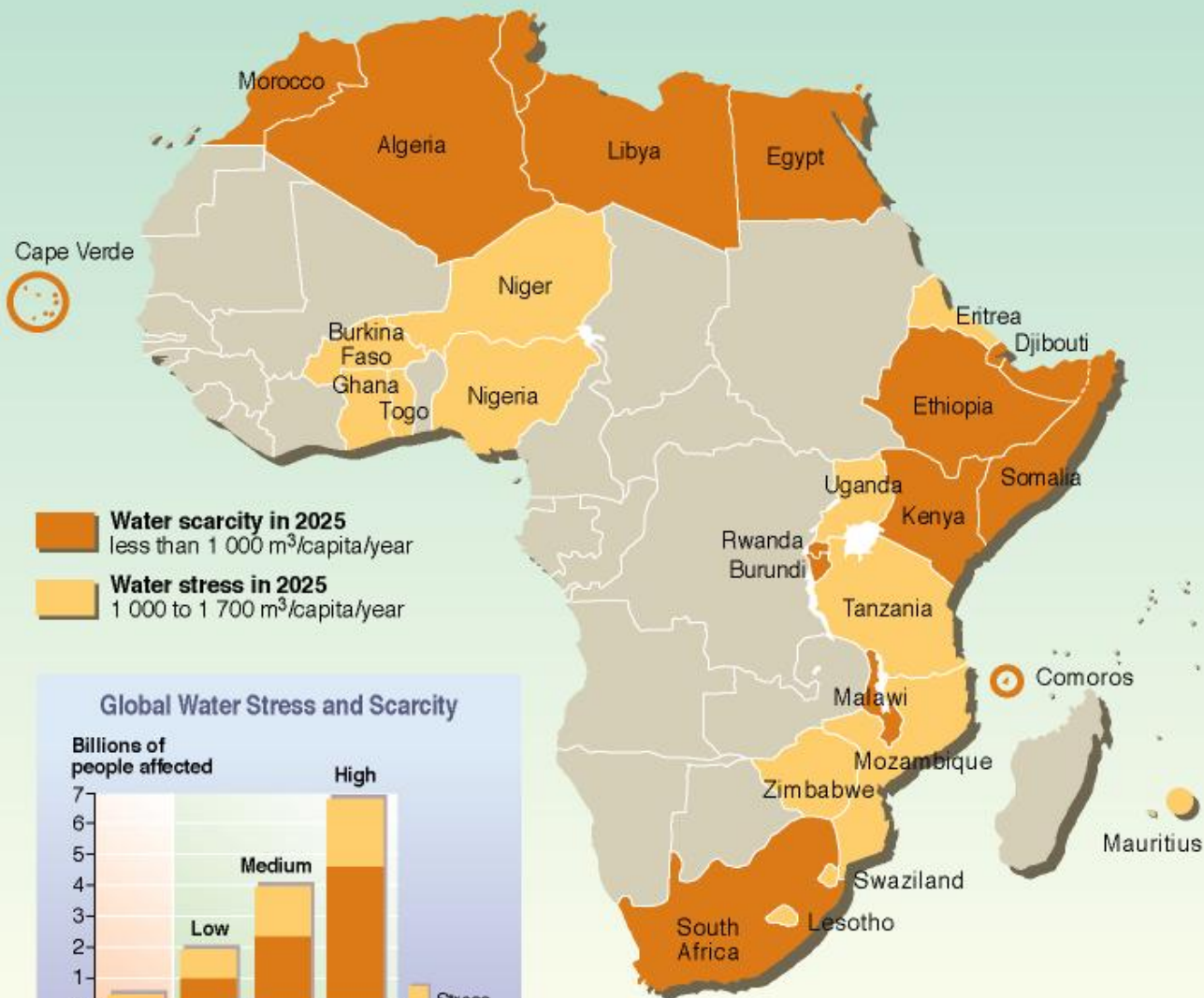


The vulnerabilities

	Desertification		Deforestation		Spread of malaria
	Sea level rise		Loss of forest quality		Impacts on food security
	Reduced freshwater availability		Degradation of woodlands		
	Cyclones		Coral bleaching		
	Coastal erosion				



Freshwater Stress and Scarcity in Africa by 2025



PHILIPPE REKACEWICZ
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Source: United Nations Economic Commission for Africa (UNECA), Addis Ababa; Global Environment Outlook 2000 (GEO), UNEP, Earthscan, London, 1999; Population Action International.



Responses

- **Mitigation options : Energy sector, REDD +, Land Use, Land use change and forestry, maximizing opportunities from the international carbon market**
- **Adaptation measures: Disaster reduction and risk management, building economic and social resilience, climate proofing**
- **Supporting and enabling measures : capacity development, financing, technology development and transfer**



AFRICA GREEN ECONOMY INITIATIVE

- *Sustainable energy and energy efficiency*
- *Sustainable transport*
- *Ecological infrastructure*
- *Sustainable agriculture*