

Role of Institute of Environmental Studies (IES), University of Khartoum – Khartoum Sudan in addressing Climate Change

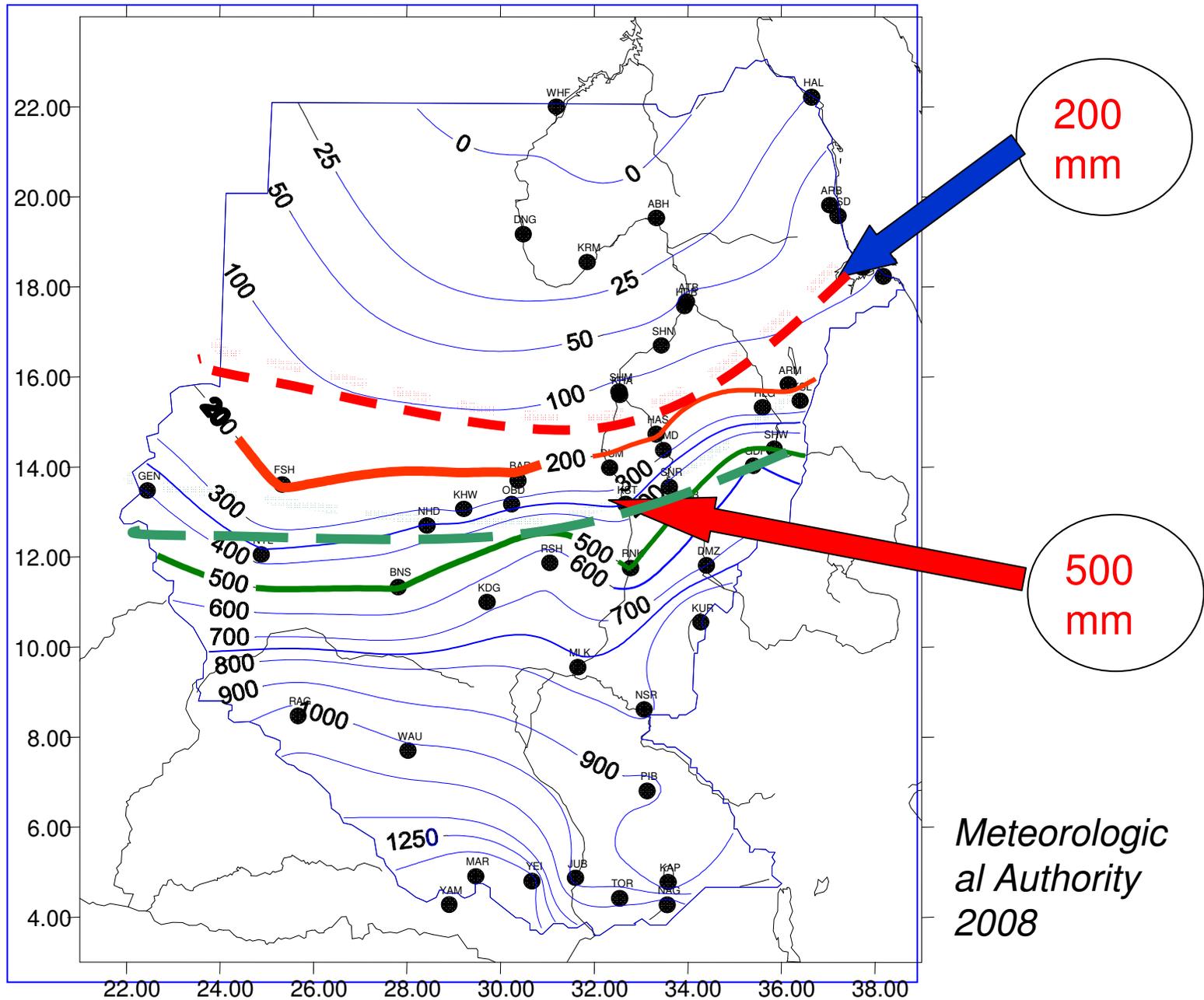


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Sudan is particularly concerned with impacts of climate change

- Majority of its land is sensitive to changes in temperature and precipitation.
- weak infrastructure
- food security is mainly determined by rainfall
- more than 70% of Sudan population is directly dependant on climate-sensitive resources for their livelihoods

SUDAN NORMAL RAINFALL IN MM FOR THE PERIOD 1941-1970 COMPARED TO 1971-2000



IES Objectives

- Encourage and promote inter-and multidisciplinary Environmental research.
- Offer post-graduate programs in environ. sciences.
- Organise training courses and to develop skills aiming to solve environmental problem.
- Assist and advise in introducing environmental education at the school and university levels.
- Promote a wider understanding of environmental problems both within the university and among the general public, through publications, conferences, workshops and public lectures.
- Undertake consultancy studies on environmental problems for the government and private sectors.

Degrees offered

- Diploma/M. Sc. in Environmental sciences (by courses)
- M. Sc. in Environmental sciences (by research)
- Diploma/M. Sc. in Meteorology (by courses)
- M. Sc. in Meteorology (by research)
- Ph. D. In Environmental Sciences (by research)
- Underway
- M.Sc in Climate chnage (by courses)

Areas for research and training

- Climate Change
- Arid Land Management
- Freshwater Ecosystems Management
- Urban and Rural Management
- Coastal Zone Management
- Sustainable Development
- Environmental Impact Assessment

Examples of activities with HCENR

- Participation in committees related to the environment and development and international agreements bio-diversity, bio-safety, POPs climate change etc.)
- Active participation in climate change activities (UNFCCC programmes). Experts in Climate Change themes (adaptation, mitigation, REDD, Meteorology and others. They are actively involved in the preparation of climate change national documents (national communications (first and second), Technology Needs Assessment (TNA), National Adaptation Programme of Action (NAPA), National adaptation Plan (NAP) etc.) IPCC fifth assessment report
- IES contributes in UNFCCC negotiations

Some short courses and training workshops

- The IES organizes courses for the purpose of education and awareness raising on issues that include climate change. Recently a training workshop was organized on vulnerability and adaptation on climate change. The participants were government officials, researchers, NGOs and media representatives.
- Education and awareness on CC conventions and agreements
- Training of wood energy saving

Example of Thesis related to Climate Change

- Effects of Climate Change on Water Availability in Africa :
Case Study Lake Chad
- Climate Change Impacts on Animals Migration and Habitat
- Vulnerability of agricultural sector in Sudan to climate change and socio economic factors
- Climate Change and Population Displacement in Northern Kordofan
- ENVIRONMENTAL DEGRADATION AND TRADITIONAL PRODUCERS' COPING MECHANISMS IN WESTERN KORDOFAN
- Improving Adaptive Capacities to Climate Extremes through Dissemination and Use of Seasonal Rainfall. Forecast in a drought-prone area of Sudan

Difficulties and shortcomings

- Resources (Financial ... Financialand human resources)
- Not being able to attract the media and NGO's for public and governmental sectors
- Employment for environmentalists



Rainy season
Kordofan