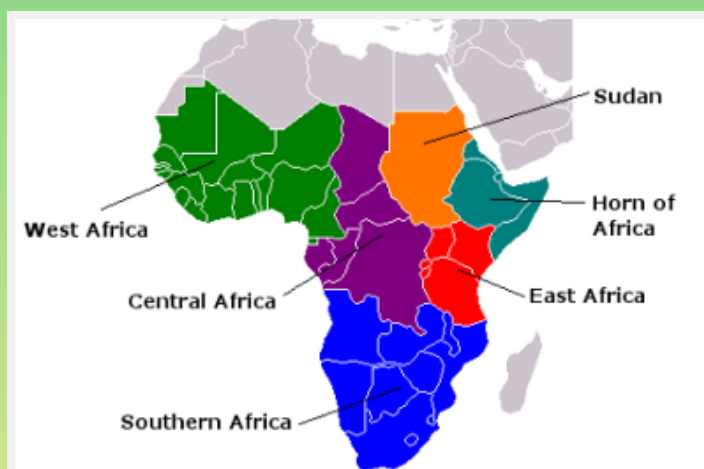


Refresher Course

Water harvesting: A missed potential for food security in the semi-arid regions of Sub Saharan Africa 2015

Introduction:

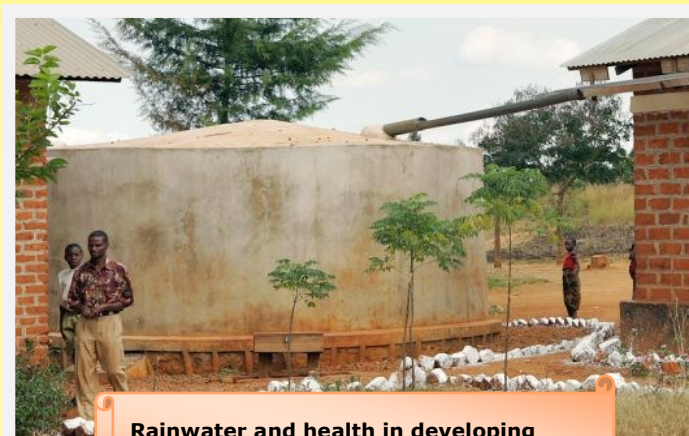
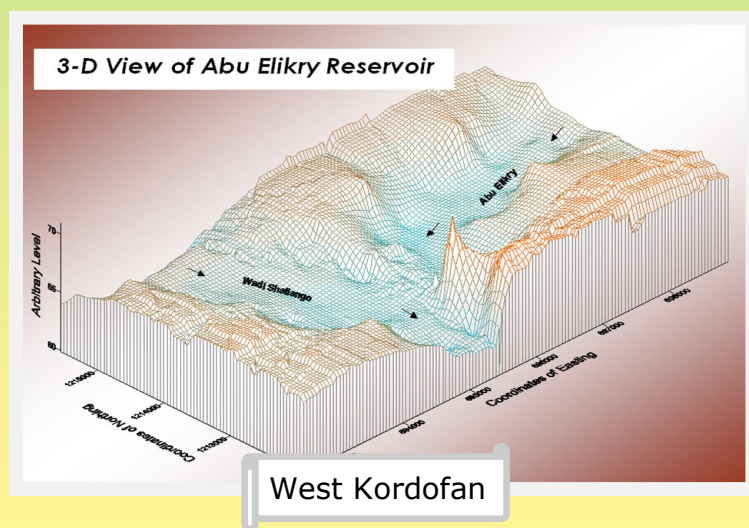
HRC- Sudan in collaboration with UNESCO-IHE is organizing the Refresher Course on **“Water Harvesting: A missed potential for food security in the semi-arid regions of Sub Sahara Africa”** during the period 22-26 Nov. 2015 in Wad Medani, Sudan .



Regions of Sub-Saharan Africa

Objectives of the course:

- **To** equip the participants from arid and semi-arid climates of Sub Sahara Africa (SSA) with up-to-date and practical scientific knowledge on water harvesting techniques for optimal design, operation, and management of water harvesting projects.
- **To** provide the participants with experience from bright spots in the region.
- **To** critically evaluate successful/failed water harvesting schemes in the region.



Rainwater and health in developing countries: A case study on Uganda

- **To** fill-in gaps in research and capacity building on water harvesting issues and to discuss possibility of issuing manuals, guidelines for different stakeholders involved in water harvesting projects.
- **To** highlight the water governance issues with relevance to water harvesting.
- **To** discuss the role of women in the chain of water harvesting to improve livelihood of the poor in the dry parts of SSA.

Start: 22 November 2015

End: 26 November 2015

Course content

The one week refresher course will be divided into 5 main teaching/discussion blocks:

1. **Design principles** of water harvesting systems with case studies for small dams, water ponds and water tank. Conceptual and hydraulic design principles for selected water harvesting systems: small dam, water pond, roof top, water tank, spate irrigation, roads for water

2. **Operation and maintenance** of water harvesting systems: this focuses on governance issues and discusses stakeholders roles, finance, and sustainability.

3. **Role of women** in the water harvesting chain (supply, transport, use).

4. **Assessment of impacts** of water harvesting systems on: livelihood, health, environment, and downstream impacts, field visit to a water pond in central Sudan (Butane area)



Prospective participants

Mid-career professionals with at least three years' work experience in an area related to the course, e.g., water resources, irrigation, and hydrology.

Participants are nationals of one of the countries of the NFP list, and preferably from IHE-Delft alumni, who have completed any NFP, NPT or NICHE training. Preference is given to female applicants and applicants from arid regions of Africa.



Course duration:

22–26 November 2015 (daily from 09:00 to 17:00).

Instructors:

Staff of international experience will deliver the course, with ample time for practice and discussions.

Course avenue :

The Training Center of the Hydraulic Research Center HRC, Wad Medani, Sudan.

Contact information:

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