



**The Abdus Salam  
International Centre for Theoretical Physics**



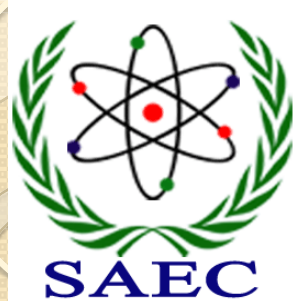
**2016**

**Joint ICTP/IAEA Advanced Workshop on Earthquake Engineering  
for Nuclear Facilities**

*30 November - 4 December, 2009*

**Earthquake Research Actives in Sudan**  
*(Presentation)*

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SUDAN*



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Earthquake Engineering for Nuclear Facilities  
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# Earthquake Research Actives in Sudan

By:

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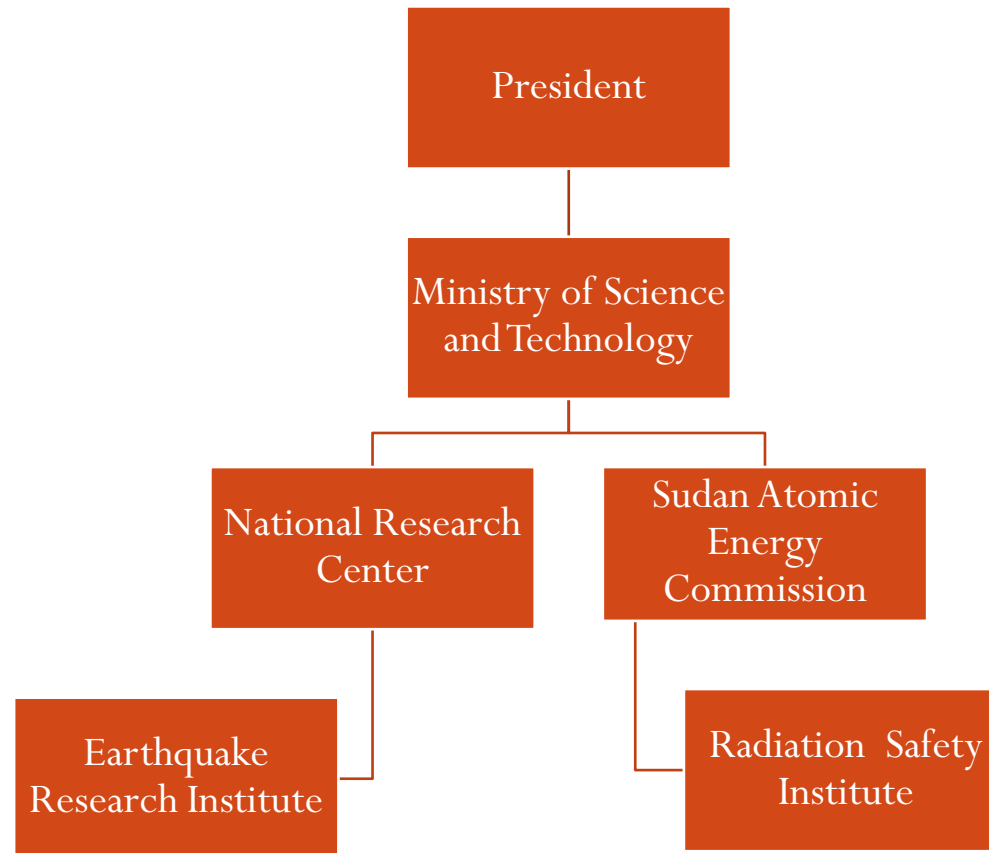
**SUDAN**  
Political Map





# Sudan Republic

- Capital City – Khartoum.
- Largest City – Omdurman.
- Official Languages – Arabic and English.
- Area – 2.505.813 Km.sq.
- Population – 2009 estimate = 42.272.000.
- States – 26 states.





# Earthquake Research Institute

- Established by the National Research Center in the year in 1995, and has been upgraded to the Institute of seismic research within the Center. In June 2002.

# Sections of the Institute

- **Earthquake Research Department:-**
  - Division of the earthquake.
  - Division of earthquake risk.
  - Division of warnings and forecasts.
- **Research Section geological and engineering seismic:-**
  - Division of geological formations.
  - Division of Engineering seismic.
- **Research Department of Geophysics :-**
  - Division of Geophysics, Pure.
  - Division of Applied Geophysics.



# The activities of the Institute

- Undertake research and studies in the field of earthquakes and natural sciences.
- Work to establish a monitoring network of earthquakes.
- Collect, organize and classify information, especially earthquakes in Sudan and neighboring countries in addition to earthquakes in other regions in general.





## The activities (Cont..)

- Cooperation with the relevant sections of the universities and research centers and other institutions to enrich the research on earthquakes.
- Dissemination of information on earthquakes in the country through the issuance of special bulletins and other local publications.
- Development of knowledge of the importance of science and its direct seismic construction projects.
- Establishment of links and cooperation with National and International scientific institutions and competent organizations relevant to earthquakes.

# Current Projects

- Geological and geophysical study of the central region of Sudan
- Geophysical and seismic study of the detailed crack in Dumba mountains, western Sudan
- Geophysical and seismic study of the Red Sea area.
- Determination of the location of previous seismic stations in Sudan



# Training Activities

- Completion of the first training course in science of earthquakes January 2003
- Coordination of the small training sessions for staff of the institute about the programs used to analyze information and seismological data



Cooperation with institutes and research centers,  
internal and external:

- Cooperation with the Department of Geology, University of Khartoum.
- Agreement with the General Authority for Research Geological cities hardware and equipment.
- Protocol with the National Research Institute of Astronomy and Geophysics, Helwan, which provides the opportunity to exchange information and training courses.



# Achievements of the Institute

- Geological Survey of the Central Sudan, which extends to the west.
- Map of Sudan for all natural hazards.
- Index of earthquakes in the Sudan.



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*Thank You for Your attention !!!*



