



KE0400082

Workshop on CTBTO International Cooperation  
and National Implementation for States from East  
and Southern Africa

Nairobi, Kenya, 18–20 June 2002  
CTBT/WS/LEGREL/IC-8/CRP.22

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## Eastern and Southern Africa Seismological Working Group

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### 1. BRIEF PROFILE

#### 1.1. Countries and institutions represented:

- Eritrea, University of Asmara
- Ethiopia, Addis Ababa University
- Kenya, University of Nairobi
- Uganda, Makerere University and Geological survey of Uganda
- Tanzania, University of Dar es Salaam
- Zambia, Geological Survey of Zambia
- Malawi, Geological Survey of Malawi
- Zimbabwe, Goetz Observatory.

#### 1.2. Objectives:

- Enhance the collection and processing of the regional seismological data
- Enhance the quality of data collection and interpretation through training
- Promote joint and individual research efforts in seismology and related fields.

#### 1.3. Date of establishment: 1993

#### 1.4. Main activities:

- Bulletin production – have produced bulletin for the region covering the period 1993 through 2000. The bulletins for 2001 are under preparation. The modalities of bulletin production was done by collating all data collected from observatories of the region in regional workshops. Recently, as more experience in bulletin production has been gained, it is being experimented to prepare bulletins by individual institutions for the entire region. In this case, data are sent by email to the institution preparing the bulletin.
- Training of seismograph interpreters – this has been an important component of the activities. Initially, training and bulletin production were combined. The workshops for training and bulletin production were held in individual countries on rotation basis. During workshops, equipment for the workshops such as laser printers were purchased using funds of the ESARSWG in order to enhance the capacity of the institutions.

- Preparation of seismic hazard maps – joint efforts were made in this activity with the involvement of the ESARSWG and other institutions (the Institute of Solid Earth Physics of the University of Bergen in Norway has particularly been an active participant in this effort). At least three workshops were held for this process which culminated in the production of the seismic hazard map for the region towards the end of the last decade.
- Research conferences - the ESARSWG has initiated a programme of holding research conferences to serve as forums for the exchange of research outputs. The first conference was held at Makerere University in Uganda in 1999 and the second is scheduled to be held in Tanzania in December 2002. A proceeding was produced for the Makerere conference.

### **1.5. Main funding institutions:**

- The International Science Program (ISP) of Uppsala University in Sweden has been, and still remains, the main funding agency for the activities of the ESARSWG. Small funds were obtained at certain times by UNESCO, and other institutions.
- The local institutions (universities and geological surveys) give strong logistical and other support during the holding of workshops and conferences.

## **2. POSSIBLE COOPERATION WITH CTBTO**

The ESARSWG is the regional body that has proved itself capable of bringing together the institutions which are involved in seismology. It has made significant improvements in the seismicity study of the region with minimum amount of funds. The ESARSWG strongly believes that it could do more if it gets enough funding (a broadband and digital signal processing training workshop which was felt to be highly needed and which was scheduled to be held in October 2001 had to be cancelled due to shortage of funds). It is clear that there is a strong overlap between the objectives of the ESARSWG and CTBTO.

From the perspective of the ESARSWG, it is felt that fruitful results could be obtained if the CTBTO could give funding to cover well defined activities of the ESARSWG. The modalities of funding could be through the presentation of proposals. The ESARSWG could elaborate on this if the CTBTO shows interest in the collaboration of the two parties.