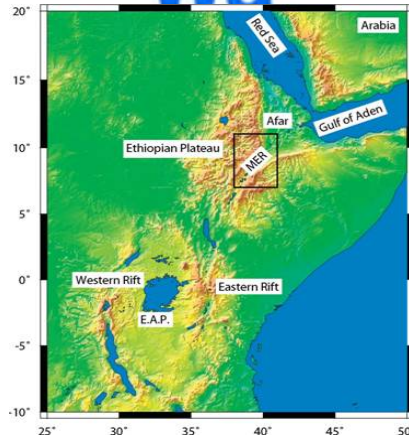




MAWARI
Management of
African Rift



Project: Sustainable
Water Resources in the East
System

Workshop on Geochemistry of Groundwaters in the
East African Rift

Tuesday 10th – Friday 13th, April 2007
Ghion Hotel, Addis Ababa, ETHIOPIA

Organisers: Addis Ababa University and Geological Survey of Ethiopia

Facilitator: CIFEEG

Sponsors: French Ministry of Foreign Affairs, Addis Ababa University
and Geological Survey of Ethiopia

Instructors:

- Prof. Chiek Gaye, Senegal University
- Dr. Gezaheng Yirgu, Addis Ababa University
- Dr. Derje Ayalew, Addis Ababa University
- Dr. Berhanu Gizaw, Geological Survey of Ethiopia
- Dr. Seifu Kebede, Addis Ababa University

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Background

The project concept of "**Sustainable Management of Water Resource in the East-African Rift System**", MAWARI emerged after the workshop on "**regional workshop on research for sustainable water resources in East African Rift Valley**", **November 26-29, 2001, Addis Ababa, Ethiopia**.

MAWARI is a Project that deals with common local and regional problems related groundwater resources in the Rift valley. A non-restrictive list of the identified problems include evaluation of the groundwater recharge; geochemistry of the groundwater with two major items: salinization (chlorine) and fluoride; general modelling of the groundwater behaviour and relationships with surface water; and impact of the anthropogenic activities, specifically all issues related to pollution in urban areas.

The Project is financially supported mainly by the French Ministry for Foreign Affairs (France) but also by participating institutions. The French Ministry for Foreign Affairs assigned a company called CIFEG for follow up and facilitation since 20th October 2004 for the planned duration of 4 years. The Project technical activities were officially approved in October 2005.

As part of the framework of the Project, workshops are being organised in each of the participating countries. Following the Groundwater Modelling Workshop held in Djibouti between 27 and 31 of March 2007, the Geochemistry Workshop is hosted jointly by the Addis Ababa University and the Ethiopian Geological Surveys in Addis Ababa, Ethiopia. This will soon be followed by a Workshop on Remote Sensing in the Kenyan Capital, Nairobi. The outcomes of all these Workshops and other activities will be evaluated in France towards the end of May, 2007.

In this Geochemistry Workshop, earth scientists from various institutions will take part. Five experienced instructors will share their practical experiences. The Workshop will be rapped up by practical field exercises of water sampling, preservation, field determinations and description along the Addis Ababa – Ambo - Adama cold and thermal waters.

As the Workshop that is aimed at furthering greater knowledge, development and utilization of the groundwater resources of the East African Rift region, we wish to take this opportunity to encourage all participants to use this occasion to share their experiences with the vision of improving the lives of Africans by increasing the use of clean, affordable and sustainable ground water resources. We also do hope that the Workshop will provide ample opportunities not only to share ideas and experiences but also to have new acquaintances of scientists for further joint and collaborative activities. Hope you will enjoy the scientific sessions, as well as your stay in Ethiopia.

Workshop programme

Tuesday 10th April, 2007

- 8:00 – 8:45 Registration
- 9:00 – 9:10 Welcoming address
Dr. Balemual Atnafu, Head, Department of Earth Sciences, Addis Ababa University
- 9:10 – 9:15 Opening Address by the Guest of Honour
Dr. Meseret Tekelemariam, Head, Department of Hydrogeology, Engineering geology and Geothermal Studies, Geological Survey of Ethiopia
- 9:15 – 10:15 General Geology of the East African Rift System
Dr. Gezahegn Yirgu, Addis Ababa University
- 10:15 – 10:45 Coffee Break
- 10:45 – 12:30 Major elements mobility in the geosphere, lithosphere and hydrosphere
Dr. Dereje Ayalew, Addis Ababa University
- 12:30 – 14:00 Lunch Break**
- 14:00 – 15:30 Geochemistry and Mineralogy of the Aquifer Matrix in the East African Rift
Dr. Gezahegn Yirgu, Addis Ababa University
- 15:30 – 15:45 Coffee Break
- 15:45 – 17:00 Application of Geochemistry to Water Resources Investigations
Dr. Berhanu Gizaw, Geological Survey of Ethiopia
- 18:30 – 22:00 Cultural Dinner at the Ghion Hotel Tikul

Wednesday 11th April, 2007

- 08:30 – 10:00 - Sampling, Preservation, Determinations and Data Evaluation
- Fluid Geochemistry and Water Quality Issues in the East African Rift System
Dr. Berhanu Gizaw, Geological Survey of Ethiopia
- 10:00 – 10:15 Coffee Break
- 10:15 – 12:30 Basic Stable Isotopes
Prof. Cheik Gaye, Senegal University
- 12:30 – 14:00 Lunch Break**
- 14:00 – 15:30 - Stable Isotopes in Groundwaters
- International Atomic Energy Agency Water Programme
- 15:30 – 15:45 Coffee Break
- 15:45 – 17:15 Isotopes in Lake Studies
Dr. Seifu Kebede, Addis Ababa University

Thursday 12th April, 2007 Practical Field Exercises: Ambo – Wonchi - Weliso

Friday 13th April, 2007 Practical Field Exercises: Addis Ababa Filweha – Entoto – Debere Zeit