

Advanced Workshop on Hydrometeorology

**Shefayim, Israel
2 – 12 December 2013**

1. Introduction

The IMS/WMO RTC Bet Dagan of the Israel Meteorological Service has provided training at a post-graduate level since 1967. Several thousands of participants from all over the world, mainly from developing countries, have taken advantage of the opportunities provided by our RTC to study the application of meteorology to various aspects of economic activity.

The topics of this workshop are in accordance with the concept of the Global Framework for Climate Services (GFCS), where water is one of the four key areas selected by the High Level Taskforce of GFCS.

Since Israel was successful with developing an efficient Water Management System, despite its inherent water scarcity, the growing demands of the population and the possible impact of climate change and variability, many of the methodologies and techniques developed during the years could be used also to support development and improvement of existing and planned water resources management systems in other parts of the world. These methodologies and techniques will be presented to the participants in a combination of classroom lectures, discussions, exercises, demonstrations, field trips and round-table discussions.

2. Workshop Objectives

- a) To discuss the effects of climate change on aspects of the hydrological water cycle and availability of water resources.
- b) To demonstrate modern Hydrometeorological Techniques and methods for efficient water resources management.

3. Main Workshop Content:

Precipitation measurements:

- Observational Network
- Data Management and Quality Control

Data Analysis:

- Mapping
- Trends
- Statistical Analysis of Extreme Events

Precipitation Prediction:

- Nowcasting and short Term Forecasting
- Seasonal and Climate Prediction

Water Resources and Management:

- Statistical Analysis (Droughts, water levels in water reservoirs, etc.)
- Rainfall – Runoff Relationship
- Soil and Water Conservation
- Role of Rain Radar in Flash Flood Management

4. Participation cost

- The airfare cost should be covered by the participant, by his/her employer, or by the granting institution.
- The total cost of lodging at full board for single in a double room during the duration of the workshop, including tuition fees and field trips transportation will amount to app. 200\$ per day (inc. insurance).

5. Scholarships

Scholarships, covering accommodations at full board (two persons per room) during the duration of the workshop, tuition fees and field trip transportation will be provided by the Government of Israel – MASHAV – Israel's Agency for International Development Cooperation for suitable applicants from developing countries only.

5. CRITERIA

The Advanced Workshop is designed primarily for meteorological staff of National Meteorological and Hydrological Services engaged and interested in application of advanced Hydrometeorological methodologies and techniques of water resources management.

4. Language

The workshop will be held in English. A working knowledge of English is mandatory.

5. Training Staff

The workshop will be conducted by senior staff of the IMS/WMO RTC Bet Dagan and other Institutes having extensive knowledge and experience in Climatology, Hydrology and Meteorology in Israel and elsewhere. Invited guest lecturers will also participate in providing and sharing their knowledge and experience in specific fields of expertise.

6. Registration

Interested candidates are requested to complete the attached Participant Application Form for the workshop and return it directly to RTC Bet-Dagan, Israel Meteorological Service, P.O. 25 Bet-Dagan 50250 Israel, to rmtc@ims.gov.il or to gershteing@ims.gov.il not later than the 15 October 2013.