



World Meteorological Organization
Organisation météorologique mondiale

Secrétariat

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Weather • Climate • Water
Temps • Climat • Eau

Notre réf.: ETR/CRS-1613

GENÈVE, le 3 septembre 2013

Annexes: 2 (disponibles en anglais seulement)

Objet: Atelier de perfectionnement en hydrométéorologie axé sur les incidences de la variabilité du climat et du changement climatique sur les ressources en eau, CRFP de Bet Dagan (Israël), Shefayim, 2-12 décembre 2013

Suite à donner: Pour information et mesures à prendre, le cas échéant

Madame, Monsieur,

J'ai le plaisir de vous informer que le Centre régional de formation professionnelle (CRFP) de l'OMM et du Service météorologique israélien (IMS) de Bet Dagan accueillera, du 2 au 12 décembre 2013, dans ses locaux de Shefayim le cours international de formation cité en objet.

Ce cours s'adresse principalement au personnel météorologique qui s'intéresse aux méthodes et techniques hydrométéorologiques de pointe pour la gestion des ressources en eau ou qui les utilise déjà. Il donnera un aperçu général des effets du changement climatique sur le cycle hydrologique et les réserves d'eau disponibles tout en fournissant des renseignements sur les techniques et méthodes hydrométéorologiques modernes permettant une gestion efficace des ressources en eau. Le cours se déroulera en anglais.

L'Agence israélienne de coopération pour le développement international (MASHAV) offrira, aux seuls candidats qualifiés provenant de pays en développement, des bourses d'études couvrant les frais d'hébergement en pension complète (deux personnes par chambre) pendant la durée de l'atelier ainsi que les frais d'inscription et de transport sur place.

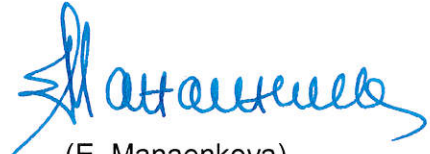
Les frais de voyage internationaux, dont les billets aller-retour et les frais de transit, sont à la charge des participants eux-mêmes ou de leurs gouvernements respectifs. Vous trouverez ci-joint des informations sur le cours ainsi qu'un formulaire d'inscription.

Aux: Représentants permanents des Membres du Conseil régional I (AFR-774)
Représentants permanents des Membres du Conseil régional II (ASE-629)
Représentants permanents des Membres du Conseil régional VI (EUR-730)

cc: Conseillers en hydrologie auprès des représentants permanents des Membres des Régions I, II et VI

Les participants désignés sont priés de remplir le formulaire en question, qui doit être approuvé par le représentant permanent de leurs pays respectifs, et de l'envoyer directement au CRFP de Bet Dagan, le **15 octobre 2013 au plus tard**.

Veuillez agréer, Madame, Monsieur, l'expression de ma considération distinguée.

A handwritten signature in blue ink, appearing to read 'E. Manaenkova', with a stylized flourish at the end.

(E. Manaenkova)
pour le Secrétaire général

**ADVANCED TRAINING WORKSHOP ON HYDROMETEOROLOGY: IMPACT OF CLIMATE
VARIABILITY AND CHANGE ON WATER RESOURCES**

**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 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

Precipitation Diagnostics and Prediction/Projection:

- Mapping
- Trends
- Statistical Analysis of Extreme Events (rainfall, floods, peak discharge)
- Sub-seasonal to Seasonal Prediction
- Climate change projections

Water Resources Management:

- Climate Change impact on the hydrological cycle (evaporation, infiltration and surface flow)
- Climate variability and change and water resources (rainfall – runoff relationship, spring flow and reservoirs recharge)
- Tools for water management under precipitation deficit conditions

- Hydrological and hydrometeorological models for water balance calculations under climate change scenarios
- Impact of land use changes on water resources
- 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 one person 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 full board accommodation (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.

6. Criteria

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

7. Language

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

8. 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.

9. 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**.

WORLD METEOROLOGICAL ORGANIZATION

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ETR/CRS-1613, ANNEX II

**ADVANCED WORKSHOP ON CLIMATE CHANGE AND AGRICULTURE
SHEFAYIM, ISRAEL
2-12 December 2013**

APPLICATION FORM

Applicants willing to take part in this workshop are requested to fill this form and send it to:

Mr Giora. G. Gershtein, IMS/WMO RTC Bet Dagan, P.O.B 25, Bet Dagan 50250, Israel

E-mail: gershteing@ims.gov.ill; rmtc@ims.gov.il

Please print or type

Country _____ Date of Birth _____

Family Name: _____ Given Name: _____

Work Experience _____

Education _____

Academic degree (if available) _____

Place of employment _____

Position held _____

Posting address _____

Telephone: _____ Fax: _____

E-mail: _____

Financial assistance for required travel:

Yes ☐ No ☐

Applicant's signature _____ **Date** _____

Recommendation of Director of the Service:

Signature _____ **Date** _____