

## WMO OMM

WEATHER CLIMATE WATER  
TEMPS CLIMAT EAU



World Meteorological Organization  
Organisation météorologique mondiale  
Organización Meteorológica Mundial  
Всемирная метеорологическая организация  
المنظمة العالمية للأرصاد الجوية  
世界气象组织

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Ref.: 06563/2017-1.10 LCP

جنيف، 21 شباط/ فبراير 2017

06563/2017/ETR/CRS-317

الرسالة رقم:

عدد المرفقات: 2 (متوافران بالإنكليزية فقط)

الموضوع: حلقة عمل متقدمة بشأن "تغير المناخ والزراعة، مركز التدريب الإقليمي، بيت داغان، مدينة شفايم  
بإسرائيل، 14-24 أيار/ مايو 2017

الإجراء المطلوب: للعلم واتخاذ الإجراء الملائم، حسب الاقتضاء

تحية طيبة وبعد،

يسرني أن أبلغكم أن مركز التدريب الإقليمي (RTC) ببيت داغان سيقوم، بالتعاون مع الوكالة الإسرائيلية للتعاون الإنمائي الدولي (MASHAV) بعقد حلقة عمل تدريبية متقدمة بشأن "تغير المناخ والزراعة" في مركز التدريب الإقليمي (RTC) ببيت داغان، إسرائيل، في الفترة 14-24 أيار/ مايو 2017.

والهدف من حلقة العمل هو تعزيز قدرات المشاركين على استخدام أساليب وتقنيات الأرصاد الجوية الزراعية بكفاءة، فضلاً عن أدوات أخرى لتخفيف آثار تغير المناخ على الزراعة. وتأتي هذه الدورة التدريبية في إطار الخدمات المناخية التي يقدمها المرفق الإسرائيلي للأرصاد الجوية (IMS) تماشياً مع أهداف الإطار العالمي للخدمات المناخية (GFCS). وستعقد حلقة العمل باللغة الإنكليزية.

وستقدم حكومة إسرائيل منحاً دراسية لفائدة المشاركين من البلدان النامية تغطي مصاريف السكن وجميع الوجبات (يتقاسم شخصان الغرفة الواحدة) أثناء مدة حلقة العمل، إلى جانب الرسوم الدراسية وتكاليف النقل. غير أن تلك المنح لا تغطي تكاليف السفر الجوي إلى إسرائيل ومنها أو مصاريف الجيب. وترد في المرفق 1 معلومات مفصلة عن حلقة العمل بما في ذلك شروط وإجراءات طلب المشاركة.

ويرجى من المرشحين المهتمين استيفاء "استمارة طلب المشاركة" المرفقة والخاصة بحلقة العمل (المرفق 2) وإعادتها مباشرة إلى مركز التدريب الإقليمي (RTC) ببيت داغان، Israel Meteorological Service, P.O. 25 Bet-Dagan 50250 Israel على عنواني البريد الإلكتروني الآتيين: rmtc@ims.gov.il و gershteing@ims.gov.il في موعد لا يتجاوز 28 شباط/ فبراير 2017.

وتفضلوا بقبول فائق الاحترام،

(و. تشانغ)  
عن الأمين العام

إلى: الممثلين الدائمين لأعضاء المنظمة (أو مديري مرافق الأرصاد الجوية أو الأرصاد الجوية الهيدرولوجية التابعة لأعضاء المنظمة)

صورة إلى: المستشارين الهيدرولوجيين للممثلين الدائمين



## **ADVANCED WORKSHOP ON CLIMATE CHANGE AND AGRICULTURE**

Shefayim, Israel

14–24 May 2017

### 1. Introduction

The WMO RTC Bet Dagan of the Israel Meteorological Service, in cooperation with Israel's Agency for International Development Cooperation (MASHAV), 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 agriculture is one of the four key areas selected by the High Level Taskforce of GFCS.

Since Israel was successful with developing agriculture, despite the negative impact of its climate and water resources scarcity on its agricultural production, many of the methodologies developed during the years could also be used for mitigating the results of climate change and increasing the agricultural production.

This workshop will demonstrate advanced methodologies and techniques developed in order to compensate for the impact of unfavourable climate conditions on agricultural production. It will introduce Israel's knowledge in various fields such as: (i) irrigation and water management under changing climate conditions; (ii) microclimate control in agricultural buildings; (iii) user-provider interaction; and (iv) cultivation of crops resistant to climate change, etc.

The workshop's curriculum will include a combination of classroom lectures, exercises, demonstrations, field trips and round-table discussions.

### 2. Workshop Objectives

- a) To discuss the effects of climate change on different fields of agriculture and agricultural production;
- b) To demonstrate modern agrometeorological techniques and methods for mitigating the effects of climate change.

### 3. Learning Outcomes

After the workshop, participants will be able to:

- a) Communicate the existing and potential effects of climate change to the agricultural stakeholders in their country or region;

- b) Make recommendations to agricultural stakeholders on advanced irrigation methods for efficient water usage;
- c) Use GIS and remote sensing for decision-making;
- d) Advise government officials on soil conservation and eco-agricultural strategies;
- e) Improve the work of the relevant units in their services and strengthen the provider-user relations between their staff (researchers, forecasters, extension officers, etc.) and other professional staff within the local farming communities.

4. Main workshop content:

**Effects of climate change on agricultural production:**

- Precipitation distribution and changes
- Extreme events – floods, droughts, frost and heatwaves
- Phenological effects
- Pest and disease effecting agricultural yields

**Agrometeorological techniques:**

- Evapotranspiration (Penman-Monteith) and advanced irrigation methods
- Usage of marginal water
- Climate control in agricultural buildings
- GIS, Satellite Imagery and other means of remote sensing as integrative tools for decision making
- Soil conservation (combating soil degradation)
- Eco-Agriculture (the coexistence between the agriculture and natural environment)

**Forecast and risk management for improving agricultural production:**

- Weather and Climate forecasts and their impact on agriculture
- Usage of Economical Tools for mitigating the impacts of climate change

5. 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. 270\$ per day (incl. insurance). Total for the whole period is 2970\$.

6. Scholarships

Scholarships, covering accommodation at full board (two persons per room) for the duration of the workshop, tuition fees and field trip transportation will be provided for participants from developing countries, by the Government of Israel – MASHAV – Israel's Agency for International Development Cooperation. These scholarships would be provided in accordance with MASHAV's requirements and procedures.

7. Audience

The advanced workshop is designed primarily for meteorological staff of National Meteorological and Hydrological Services engaged and interested in the application of advanced agrometeorological methodologies and techniques in adapting and mitigating the possible effects of climate change.

8. Language

The workshop will be held in English. A working knowledge of English is mandatory. As a mandatory part of the acceptance procedure, all relevant candidates will have to be interviewed by local representatives of MASHAV in their countries.

9. Training Staff

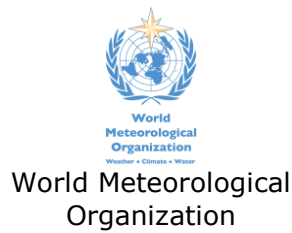
The workshop will be conducted by senior staff of the IMS/WMO RTC Bet Dagan having extensive knowledge and experience in climatology, agrometeorology and agronomy, in Israel and elsewhere. Invited guest lecturers, from Israel as well as from abroad, will also participate in providing and sharing their knowledge and experience in specific fields of expertise.

10. Visa Information

Most of the participants will require a visa in order to enter Israel. For additional information see: <http://mfa.gov.il/MFA/ConsularServices/Pages/Visas.aspx>. The required time for obtaining a visa varies from country to country, but might take up to a few weeks. For participants flying through other countries, an additional entrance visa for these countries may be required.

11. 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 5025001 Israel, to [rmtc@ims.gov.il](mailto:rmtc@ims.gov.il), [rtc.bet.dagan@gmail.com](mailto:rtc.bet.dagan@gmail.com) or to [gershteing@ims.gov.il](mailto:gershteing@ims.gov.il) not later than the **28 February 2017**.



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**ADVANCED WORKSHOP ON CLIMATE CHANGE AND AGRICULTURE***SHEFAYIM, ISRAEL*

14-24 May 2017

APPLICATION FORM***Section A: Personal Details***

1. Country : \_\_\_\_\_
2. Title : Mr/Ms/Miss/Dr/Prof : \_\_\_\_\_
3. First Name (Given) : \_\_\_\_\_
4. Family Name (Surname) : \_\_\_\_\_
5. E-mail: \_\_\_\_\_
6. Telephone No. : \_\_\_\_\_
7. Fax No. : \_\_\_\_\_
8. Official Address : \_\_\_\_\_

9. Date of Birth : \_\_\_\_\_
10. Nationality : \_\_\_\_\_

11. Gender : ☐ Female ☐ Male12. Do you need an entry visa for Israel? ☐ No ☐ Yes<http://mfa.gov.il/MFA/ConsularServices/Pages/Visas.aspx>***Section B: Qualification***

13. Qualifications (Certificates, diplomas, degrees, etc.):

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14. Please indicate your English language skills:

	Excellent	Good	Fair	Poor	Nil
Speaking					
Reading					
Writing					

15. What other WMO courses have you attended in the last 5 years?

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### ***Section C: Work Experience***

16. I work in:
- ☐ National Meteorological and/or Hydrological Service (NMHS)
  - ☐ WMO Regional Training Centre (RTC)
  - ☐ NMHS Training Centre
  - ☐ University
  - ☐ Other (Please specify) : \_\_\_\_\_

17. What is your job title? : \_\_\_\_\_

18. How long have you been in this position? : \_\_\_\_\_

19. I am a
- ☐ Meteorologist
  - ☐ Hydrologist
  - ☐ Other (Please specify) : \_\_\_\_\_

### ***Section D: Rationale for Applying***

20. How are you involved in Hydrometeorology in your position?

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21. This will be an Advanced-level course. What previous education and training on climate and agrometeorology topics have you undertaken? What related experience qualifies you for this course?

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22. Why do you want to attend this workshop? Be specific about how it will help you in your work.

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23. Statement by candidate on how she/he anticipate using the knowledge and skills from this workshop in the work after the workshop:

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Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Candidate: \_\_\_\_\_

Statement by the Permanent Representative with WMO on why this nominee should be selected for this course.

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How would this nominee be funded to attend this course?

	Airfare	Per diem
Self-funded	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Funded by Employer	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Funded by National Institution	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Funded by another source (grant, development project, etc.). Please state source of funding.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Signature of the Permanent Representative with WMO

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To be completed and returned as soon as possible to the Organization Committee **not later than 28 February 2017** to:

Mr. Giora. G.H. Gershtein,  
 IMS/WMO RTC Bet Dagan, Bet Dagan 50250, POB 25, Israel  
 E-mail: [gershteing@ims.gov.il](mailto:gershteing@ims.gov.il); [rmtc@ims.gov.il](mailto:rmtc@ims.gov.il)  
 Phone: +97239403102; Mob: +9720506212099

Include a short CV (last 5 years) with the present form

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