



WMO OMM

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

Secrétariat

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GINEBRA, 21 de febrero de 2017

Anexos: 2 (disponibles en inglés solamente)

Asunto: Taller avanzado sobre "Cambio climático y agricultura", Centro Regional de Formación de Bet Dagan, (Shefayim, Israel, 14 a 24 mayo de 2017)

Finalidad: Para información y para que se adopten las medidas pertinentes, según proceda

Estimado señor/Estimada señora:

Cúpleme informar de que el Centro Regional de Formación (CRF) de Bet Dagan (Israel), en cooperación con la Agencia Israelí de Cooperación Internacional para el Desarrollo (MASHAV), va a llevar a cabo un Taller avanzado de formación sobre "Cambio climático y agricultura" en sus instalaciones del 14 al 24 de mayo de 2017.

El Taller tiene por objeto mejorar la capacidad de los participantes para usar eficazmente las técnicas y los métodos agrometeorológicos existentes, así como otras herramientas destinadas a mitigar los efectos del cambio climático en la agricultura. El Taller, que se impartirá en inglés, forma parte de los servicios climáticos proporcionados por el Servicio Meteorológico de Israel de conformidad con los objetivos del Marco Mundial para los Servicios Climáticos (MMSC).

El Gobierno de Israel ofrecerá a los participantes de países en desarrollo becas destinadas a sufragar los gastos de alojamiento en régimen de pensión completa (habitación ocupada por dos personas) durante todo el Taller, los derechos de matrícula y el transporte. No obstante, esas becas no cubren los gastos del pasaje por vía aérea hacia o desde Israel ni los gastos personales. Se adjunta información detallada sobre el Taller, incluidas las condiciones de participación y los procedimientos de inscripción (anexo 1).

Los candidatos interesados deberán rellenar el formulario de inscripción en el Taller que figura en el anexo 2 y enviarlo directamente al CRF de Bet Dagan, a la siguiente dirección de correo ordinario: RTC Bet Dagan, Israel Meteorological Service, P.O. 25, Bet-Dagan 50250 (Israel), o por correo electrónico a: [rmtc@ims.gov.il](mailto:rmtc@ims.gov.il) y [gershteing@ims.gov.il](mailto:gershteing@ims.gov.il) no más tarde del **28 de febrero de 2017**.

Le saluda atentamente.

(W. Zhang)  
por el Secretario General

A los Representantes Permanentes (o Directores de los Servicios Meteorológicos o Hidrometeorológicos) de los Miembros de la OMM

copias: Asesores hidrológicos de los Representantes Permanentes



## **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 ☐ Male

12. Do you need an entry visa for Israel?: ☐ No ☐ Yes

<http://mfa.gov.il/MFA/ConsularServices/Pages/Visas.aspx>

#### Section B: Qualification

13. Qualification (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 Permanente 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 Permanente 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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