



World Meteorological Organization
Organisation météorologique mondiale

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Weather • Climate • Water
Temps • Climat • Eau

Our ref.: ETR/CRS-116

GENEVA, 4 September 2015

Annexes: 2 (available in English only)

Subject: Advanced Workshop on Climate Change and Agriculture, RTC Bet-Degan, Shefayim, Israel, 4–14 April 2016

Action required: For information and appropriate action, as necessary

Dear Sir/Madam,

I have pleasure to inform you that the RTC Bet-Dagan, in cooperation with Israel's Agency for International Development Cooperation (MASHAV), will hold an advanced training workshop on Climate Change and Agriculture at the RTC Bet-Dagan, Israel, from 4 to 14 April 2016.

The objective of the workshop is to enhance the capabilities of the participants in the efficient use of agrometeorological methods and techniques as well as other tools for mitigating the different effects of climate change on agriculture. The course is part of the climate services provided by IMS in accordance with the objectives of the GFCS. The workshop will be conducted in English.

The Government of Israel will provide scholarships for applicants from developing countries, covering the expenses of lodging at full board (two persons sharing a room) for the duration of the workshop, tuition fees and transportation. The scholarship, however, does not cover airfare expenses to and from Israel or pocket money. Detailed workshop information, including the requirements and the procedures of application, is given in Annex I.

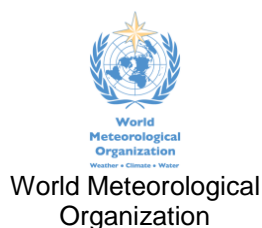
Interested candidates are requested to complete the attached Participant Application Form (Annex II) for the workshop and return it directly to RTC Bet-Dagan, Israel Meteorological Service, P.O. 25 Bet-Dagan 50250 Israel, to rmtc@ims.gov.il and gershteing@ims.gov.il, not later than **31 January 2016**.

Yours faithfully,

(E. Manaenkova)
for the Secretary-General

To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO (PR-6865)

cc: Hydrological Advisers to Permanent Representatives



ADVANCED WORKSHOP ON CLIMATE CHANGE AND AGRICULTURE

Shefayim, Israel

4–14 April 2016

1. Introduction

The IMS/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 the 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 be used also 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 unfavorable 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 with 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 approximately \$270 per day (incl. insurance). Total for the whole period is \$2,970.

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 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

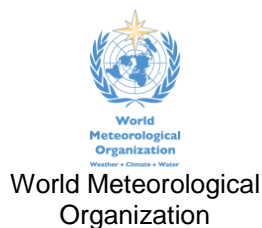
The workshop will be conducted by senior staff of the IMS/WMO RTC Bet-Dagan having extensive knowledge and experience in Climatology, Agrometeorology and Agronomy, in Israel and elsewhere. Invited guest lecturers, from Israel as well as from abroad, will also participate in providing and sharing their 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 or to gershteing@ims.gov.il not later than **31 January 2016**.



ADVANCED WORKSHOP ON CLIMATE CHANGE AND AGRICULTURE

SHEFAYIM, ISRAEL

4–14 April 2016

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: Qualifications

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

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?

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?

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?

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

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

Place: _____ Date: _____

Signature of the Candidate: _____

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

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

To be completed and returned as soon as possible to the Organization Committee **not later than 31 January 2016** to:

Mr. Giora. G. H. Gershtein,

IMS/WMO RTC Bet Dagan,

Bet Dagan 50250, POB 25, Israel

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

Phone: +97239403134; Mobile: +9720506212099

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