#### **WMO OMM**





World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация

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GENEVA, 21 February 2017

Our ref.: 02993/2017/ETR/CRS-317

Annexes: 2 (available in English only)

Subject:

Advanced Workshop on Climate Change and Agriculture, RTC Bet-Degan,

Shefayim, Israel, 14-24 May 2017

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 14 to 24 May 2017.

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 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) during 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 1.

Interested candidates are requested to complete the attached Participant Application Form (Annex 2) 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 28 February 2017**.

Yours faithfully,

(W. Zhang) for the Secretary-General

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

cc: Hydrological Advisers to Permanent Representatives







# 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 provideruser 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, rtc.bet.dagan@gmail.com or to gershteing@ims.gov.il not later than the **28 February 2017**.







# ADVANCED WORKSHOP ON CLIMATE CHANGE AND AGRICULTURE

SHEFAYIM, ISRAEL

14-24 May 2017

## **APPLICATION FORM**

Section A: Personal Details						
1. 2. 3. 4. 5.	Country Title: Mr/Ms/Miss/Dr/Prof First Name (Given) Family Name (Surname) E-mail: Telephone No. Fax No.					
8.	Official Address	:				
10. 11. 12.	9. Date of Birth :					
13. —	Qualifications (Certificates, di	olomas, degrees, etc.):				

14. Please indicate your English language skills:

	Excellent	Good	Fair	Poor	Nil
Speaking					
Reading					
Writing					

15. What other W	MO courses have you attended in the last 5 years?
Section C: Work	z Experience
16. I work in:	<ul> <li>□ National Meteorological and/or Hydrological Service (NMHS)</li> <li>□ WMO Regional Training Centre (RTC)</li> <li>□ NMHS Training Centre</li> <li>□ University</li> <li>□ Other (Please specify) :</li> </ul>
17. What is your j	ob title? :
18. How long have	e you been in this position? :
19. I am a	☐ Meteorologist ☐ Hydrologist ☐ Other (Please specify) :
Section D: Ratio	onale for Applying
20. How are you i	nvolved in Hydrometeorology in your position?

# ANNEX 2, p. 3

101	and agrometeorology topics have you undertaken? What related experience qualifies you for this course?					
22. Wh wo	y do you want to attend this workshop? Be specific about how it will help you in york.					
	tement by candidate on how she/he anticipate using the knowledge and skills from t					
wo	rkshop in the work after the workshop:					
wo	rkshop in the work after the workshop:					

Statement by the Permanente Repr selected for this course.	resentative with WMO	on why this nominee should be
How would this nominee be funded to	attend this course?	
	Airfare	Per diem
Self-funded	☐ Yes ☐ No	☐ Yes ☐ No
Funded by Employer	☐ Yes ☐ No	☐ Yes ☐ No
Funded by National Institution	☐ Yes ☐ No	☐ Yes ☐ No
Funded by another source (grant, development project, etc.). Please state source of funding.	☐ Yes ☐ No	☐ Yes ☐ No
<u> </u>		
Signature of the Permanente Represer	stative with WMO	
Signature of the Fermanente Kepreser	itative with vvivio	
To be completed and returned as so than 28 February 2017 to:	on as possible to the (	Organization Committee <b>not late</b>
than 20 i cordary 2017 to.		
Mr. Giora. G.H. Gershtein,	50250 DOR 25 Icrael	
	•	
Phone: +97239403102; Mob: +97205		
IMS/WMO RTC Bet Dagan, Bet Dagan E-mail: gershteing@ims.gov.ill; rmtc@ Phone: +97239403102; Mob: +97205	@ims.gov.il	

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

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