



World Meteorological Organization  
Organisation météorologique mondiale

Secrétariat

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Weather • Climate • Water  
Temps • Climat • Eau

جنيف، 23 أيار/ مايو 2014

الرسالة رقم: ETR/CRS-1114

عدد المرفقات: 2 (متوافران بالإنكليزية فقط)

الموضوع: دورة تدريبية دولية بشأن تعديل الطقس، بجين، الصين، 18-29 آب/ أغسطس 2014

الإجراء المطلوب: للعلم واتخاذ الإجراء الملزم حسب الاقتضاء

تحية طيبة وبعد،

يسرني إبلاغكم أن جمهورية الصين الشعبية ستستضيف دورة تدريبية دولية بشأن تعديل الطقس، في الفترة 18-29 آب/ أغسطس 2014، في مركز التدريب التابع لهيئة الأرصاد الجوية الصينية (CMATC)، وهو مكون ببجين في مركز التدريب الإقليمي (RTC) التابع للمنظمة (WMO) في الصين.

والمنظمة (WMO) تشجع على تطبيق المعلومات والمعارف العلمية في التصدي للمسائل المتعلقة بتعديل الطقس. ويجري بشكل دوري تحديث البيان والإرشادات التي تصدرها المنظمة عن تعديل الطقس، وهي متاحة على الموقع الشبكي للمنظمة على العنوان التالي:

[http://www.wmo.int/pages/prog/arep/wwrp/new/documents/WMR\\_documents.final\\_27\\_April\\_1.FINAL.pdf](http://www.wmo.int/pages/prog/arep/wwrp/new/documents/WMR_documents.final_27_April_1.FINAL.pdf)

وهذه الدورة التدريبية موجهة لمساعدة المتدربين على تعلم أساليب جديدة لتعديل الطقس وتحسين المهارات التشغيلية للمشاركين من البلدان النامية. وستدار الدورة باللغة الإنكليزية. وتجدون مرفقاً طي هذا "استمارة التسجيل" (المرفق الأول) وهي تتضمن معلومات تفصيلية عن هذه الدورة.

إلى: الممثلين الدائمين لأعضاء المنظمة (أو مديري مرافق الأرصاد الجوية أو الأرصاد الجوية الهيدرولوجية التابعة لأعضاء المنظمة) (PR-6773)

صورة إلى: المستشارين الهيدرولوجيين للممثلين الدائمين

ويرجى من المرشحين المهتمين استيفاء "استمارة التقديم" (المرفق الثاني)، التي ينبغي أن يعتمدها الممثل الدائم للبلد المعني لدى المنظمة (WMO)، وإرسالها مباشرة إلى مركز التدريب التابع لهيئة الأرصاد الجوية الصينية (CMATC)، ويفضل إرسالها بالبريد الإلكتروني على العنوان التالي: [intcmatc@cma.gov.cn](mailto:intcmatc@cma.gov.cn)، في أقرب وقت ممكن على ألا يتجاوز ذلك 15 تموز/ يوليو 2014.

وتفضلوا بقبول فائق الاحترام،



(إ. ماناينكوف)  
عن الأمين العام

E-Matc-6.11

# WORLD METEOROLOGICAL ORGANIZATION

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ETR/CRS-1114, ANNEX I

## ENROLMENT INFORMATION

An International Training Course on Weather Modification will be held in Beijing, China from 18 to 29 August 2014 by the WMO Regional Training Centre Beijing (RTC-Beijing), sponsored by the Weather Modification Center, China Meteorological Administration (CMA) and RTC-Beijing.

### 1. Objectives

Through the training course, the participants will have a better understanding of weather modification mechanisms and methods. The course is also designed to help trainees to learn new techniques of weather modification, improve the operational skills for participants from developing countries.

### 2. Date and Venue

18 to 29 August 2014, Beijing, China.

**Note:** Trainees are expected to arrive in Beijing on 17 August 2014 and depart on 30 August 2014 or in the evening of 29 August 2014.

### 3. Course Contents

The course includes:

#### I. Theory

1. The microphysics of clouds and precipitation
  - (1) The growth of cold clouds precipitation
  - (2) The growth of warm clouds precipitation (condensation and coagulation)
  - (3) The growth of hailstone
  - (4) Pollution effects on clouds and precipitation
  - (5) Weather modification definition  
Precipitation enhancement, hailstone suppression;  
Main field: Theory Research, Field Campaign, Model Research and Laboratory Experiment.
  - (6) Seeding theory
2. WMO Weather Modification Statement

#### II. Technology

1. Convective clouds
2. Stratiform clouds
3. How to plan a cloud seeding project (experiment and operations)
  - (1) WMO PEP program
  - (2) WMO TR 35
  - (3) New projects

#### III. Weather Modification Activities in China, USA, Russia and other countries

1. Overview of weather modification activities in China
2. Research and operation application of weather modification model in China
3. Research and development of cold and warm cloud seeding agents in China

### Training Format

Lecture, laboratory practice, exercises, group discussion, individual presentation, study tour, etc.

#### **4. Instructors**

WMO Expert Team of Weather Modification and CMA Weather Modification Center

#### **5. Language of Instruction**

The course will be only conducted in English.

#### **6. Targeted Trainees**

Meteorologists engaged in operational work or research on weather modification, especially those from developing countries

#### **7. Participants' Qualifications for Admission**

Participants are required:

- 1) To be specialized in meteorology and with a minimum of one year's professional experience;
- 2) To be in good physical health with no infectious diseases. Physically fit to fulfill all course activities;
- 3) To be proficient in English;
- 4) To prepare a report on weather modification of the participants' service and a brief introduction of the participant's professional experiences for the purpose of exchanges;
- 5) Not to bring family members to the training course;
- 6) To observe all the laws, rules and regulations of People's Republic of China and respect the Chinese customs during the training period.

#### **8. Application and Admission**

- 1) The applicants must be meteorologists who are working in the fields of weather modification from National Meteorological and Hydrological Services of developing countries. The nominated candidates are requested to submit the Application Forms to RTC-Beijing for examination and endorsement. Application shall be submitted and reach RTC-Beijing no later than **15 July 2014**;
- 2) Admission Notices will be issued to the accepted participants by e-mail by the RTC-Beijing. With the Admission Notices, the participants are requested to go through all the necessary formalities for entering China and bring all the documents (Admission Notices, Health Document, Application Forms) to RTC-Beijing on the registration date of **18 August 2014**;
- 3) Only accepted applicants that receive the Admission Notices endorsed by RTC-Beijing can participate in the training course.

#### **9. Training Expenses**

- 1) Tuition is free for all the accepted participants that receive the endorsed Admission Notices by RTC-Beijing;
- 2) RTC-Beijing will provide local support to the accepted participants from developing countries, including accommodation, meals, and pocket money (50 Yuan RMB per day). Other participants from developed countries shall be responsible for their own local cost;
- 3) The international travel costs including round trip tickets, transit fares and subsistence allowance during the travel are to be covered by the participants;
- 4) The expenses of visa, medical care, insurances and domestic salaries for the participants should be borne by the participants;
- 5) It should be taken into account when booking the flight tickets that the scholarship covers exclusively from 17 to 30 August 2014. Any liability or expense out of this term shall be entirely at the expense of the participants.

## **10. Insurance**

The organizer of the Training Course does not hold any responsibility for such risks as loss of life, accidents, illness, and loss of property incurred during the whole period of participation in the training course.

## **11. Deadline for application**

Application shall be submitted with a passport copy and reach RTC-Beijing no later than **15 July 2014**.

## **12. Liaison Information**

Attn: Ms. CHEN Jinyang, Ms.GAO Feng  
WMO Regional Training Centre in Beijing  
China Meteorological Administration Training Centre  
46 Zhongguancun Nandajie, Beijing 100081, China  
Tel: +86-10-68408798  
E-mail: [intcmatc@cma.gov.cn](mailto:intcmatc@cma.gov.cn)

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WORLD METEOROLOGICAL ORGANIZATION

ETR/CRS-1114, ANNEX II

APPLICATION FORM

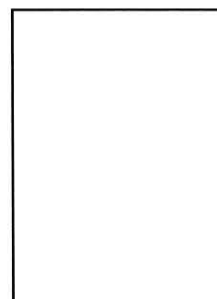
INTERNATIONAL TRAINING COURSE ON WEATHER MODIFICATION

(Beijing, China, 18 to 29 August 2014)

**Note:** Please complete the form in **typed capital letters** and get it scanned in PDF version, send directly to RTC-Beijing by E-mail with a passport copy **not later than 15 July 2014**.

I. Personal Data

1. Surname \_\_\_\_\_  
Given Name \_\_\_\_\_
2. Gender \_\_\_\_\_
3. Date of Birth \_\_\_\_\_
4. Place of Birth \_\_\_\_\_
5. Passport Number \_\_\_\_\_
6. Nationality \_\_\_\_\_
7. Religion \_\_\_\_\_
8. Marital Status \_\_\_\_\_
9. Health Condition \_\_\_\_\_
10. History of infectious disease: ☐ No ☐ Yes (Please specify if yes)



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11. Address: \_\_\_\_\_  
Mobile phone: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax \_\_\_\_\_  
E-mail Address: \_\_\_\_\_ @ \_\_\_\_\_  
Permanent Address: \_\_\_\_\_

12. Place of the Chinese Embassy/Consulate/Visa Office where you wish to apply for the visa(if a Chinese visa is required):  
\_\_\_\_\_

13. Contact person in emergency  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Mobile phone: \_\_\_\_\_  
Telephone \_\_\_\_\_ Fax \_\_\_\_\_  
E-mail Address: \_\_\_\_\_ @ \_\_\_\_\_

14. Statement of present work

Name of institution \_\_\_\_\_

Present Position or Occupation \_\_\_\_\_

Brief description of duties \_\_\_\_\_

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15. Previous employment history

Date	Institution	Position and Duties
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16. Educational and/or professional qualification

Date	Major and University	Degree/Diploma
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17. Language Proficiency

Mother Tongue \_\_\_\_\_

English Proficiency (Please tick):

Reading: a. excellent b. good c. fair d. poor

Listening: a. excellent b. good c. fair d. poor

Speaking: a. excellent b. good c. fair d. poor

Writing: a. excellent b. good c. fair d. poor

18. State why you wish to attend the course and indicate the practical use of the course to your work in the future.

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## II. Financial Support

Do you need local support from CMA if you are a participant from developing countries?

Yes ☐ No ☐



### III. Insurance

I fully understand that the course organizer does not take any responsibility for risks such as loss of life, accidents, illness, loss of property etc.

### IV. Personal Statement

I hereby declare that the information given above is true, correct and complete. I shall bear the responsibility for the above information.

I pledge to observe all the Chinese laws and will respect the local customs and follow the course regulations during my stay in China for the training course.

\_\_\_\_\_  
Signature of Applicant

Date \_\_\_\_\_

### V. Endorsement of the Nominator

1. Name of Organization \_\_\_\_\_  
\_\_\_\_\_

2. Name and Signature of the Permanent Representative of WMO in your country:

Name \_\_\_\_\_

Signature \_\_\_\_\_

Official Seal \_\_\_\_\_

Date \_\_\_\_\_

### VI. Contact Details

Contact Person: Ms. CHEN Jinyang, Ms.GAO Feng  
Address: WMO Regional Training Centre in Beijing  
China Meteorological Administration Training Centre  
46 Zhongguancun Nandajie, Beijing 100081, China  
Telephone: +86-10-68408798  
E-mail: [intcmatc@cma.gov.cn](mailto:intcmatc@cma.gov.cn)

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