



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

7 bis, avenue de la Paix – Case postale 2300
 CH 1211 Genève 2 – Suisse
 Tél.: +41 (0) 22 730 81 11
 Fax: +41 (0) 22 730 81 81
 wmo@wmo.int – public.wmo.int

Our ref.: 00645/2019/WDS/TCF/Miami-2019

8 February 2019

Annexes: 2 (available in English only)

Subject: RA IV Workshop on Hurricane Forecasting and Warning, Miami, Florida, USA 29 April - 10 May 2019

Action required: To complete the nomination form and submit it to WMO Secretariat **on or before 22 February 2019**

Dear Sir/Madam,

I am pleased to inform you that the Government of the United States of America has kindly agreed to host the RA IV Workshop on Hurricane Forecasting and Warning in Miami, Florida, from 29 April through 10 May 2019. Eight working days will be allocated to the hurricane forecasting and warning component (29 April - 8 May 2019) and two working days (9 and 10 May 2019) will be allocated to a training course on outreach and better communication with emergency managers.

The workshop will be conducted with simultaneous interpretation in English and Spanish. It will be held at the regional specialized meteorological centre, the Hurricane Center of the National Oceanic and Atmospheric Administration/National Weather Service (NOAA/NWS). Please find attached, as Annex I, an outline of the Provisional Programme. An information note for participants will be available in due course.

The workshop will provide training for hurricane forecasters from the region, assist RA IV Members in their efforts to improve operational tropical cyclone forecasting and warning, and help participants to understand and communicate better with the stakeholders engaged in the emergency decision-making process. Designed particularly for meteorologists with practical experience in operational tropical cyclone forecasting, the workshop will provide them with refresher training and updated information.

I am pleased, therefore, to invite you to nominate, from your service, an expert on hurricane forecasting and warning to participate in this workshop. To ensure the effectiveness and positive impacts of the workshop on the work of your service, it is strongly recommended that the nominated expert be a forecaster who is currently engaged in hurricane and associated weather forecasting, has a direct link to the operational tasks of your service, and meets the following requirements:

- Holds a university qualification or equivalent, preferably in geo-sciences (meteorology, hydrology, geophysics, environmental sciences, etc.);
- Is expected to continue working in your service for a number of years after participation in the workshop.

To: Permanent Representatives of Members of RA IV Hurricane Committee (limited distribution)

cc: Mr Juan Carlos Fallas Sojo, President of RA IV
 Mr Kenneth Graham, Director, RSMC Hurricane Center, Miami
 Dr Richard Pasch, Senior Hurricane Specialist, RSMC Hurricane Center, Miami

Due to the limited funds available for this workshop, it is hoped that your service can cover the expenses relating to the attendance of your nominated expert. However, if requested, WMO could consider providing financial support (travel and a lump sum in lieu of per diem) for his/her participation. If such financial assistance is required, kindly indicate this in the nomination form attached as Annex II. Candidates from Spanish-speaking countries will be given priority as regards the allocation of the funds available.

Finally, as far as WMO's insurance cover for non-staff members is concerned, successful nominees should be advised, before they agree to travel to the workshop, that:

"In the case of non-staff members of the Organization who are authorized to travel at its expense and/or who are receiving a daily subsistence allowance, the WMO accepts limited responsibility for compensation in the event of death, illness or injury attributable to attendance at meetings or the performance of services on behalf of the Organization. These persons are therefore fully responsible for any expenses incurred as a result of events which are not attributable to attendance at meetings or the performance of services on behalf of the Organization and for arranging such life, health and other forms of insurance as they consider appropriate".

It is hoped that your country will take advantage of this opportunity by nominating a suitable expert. I would be grateful if the completed nomination form could be returned to the WMO Secretariat **on or before 22 February 2019.**

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'W. Zhang', with a long horizontal stroke extending to the right.

(W. Zhang)
for the Secretary-General

RA IV WORKSHOP ON HURRICANE FORECASTING AND WARNING

Miami, Florida, USA, 29 April – 10 May 2019

PROVISIONAL PROGRAMME

While the workshop will include lectures and presentations, emphasis will be placed on group interactions and practical, hands-on exercises. The main subject areas to be covered will include:

- The large-scale tropics - an overview
- An overview of hurricane research
- Tropical analysis and tropical waves
- Marine forecasting and other TPC/TAFB products
- Satellite applications, including rainfall, the Dvorak technique, microwave and scatterometer
- Tropical cyclone genesis and structure
- NWP, ensemble forecasting, and TC track prediction models
- Developing a user focus
- Doppler radar
- Storm surge
- Extratropical transition
- Interannual and intraseasonal TC variability/Seasonal forecasting
- Best track, CLIPER and wind radii CLIPER/Wind speed probabilities
- TC track and intensity forecasting
- Operational TC forecasting and advisory preparation
- Communication and coordination with emergency managers. Messaging:
 - Hurricane Risk
 - Tropical Cyclone Hazards (wind, rain, storm surges, tornadoes ...)
 - Uncertainty
 - NHC Advisory Products
 - NHC Wind Speed Probability and Storm Surge Products
- The Hurricane Liaison Team (Department of Homeland Security's Federal Emergency Management Agency)
- Coordination with the media
- Quiz for the whole workshop
- Conclusions and recommendations

The programme will also include current weather map discussions.

Note: 8 working days allocated to the hurricane forecasting and warning component and 2 working days specifically dedicated to a training to understand and communicate better with the emergency managers. A total of 12 days including weekend.

RA IV WORKSHOP ON HURRICANE FORECASTING

Miami, Florida, USA, 29 April – 10 May 2019

NOMINATION FORM

The Government of nominates the following candidate as a participant on the above training workshop:

Family Name			Mr / Ms / Dr
First Name			
Address			
City – Country			
Telephone	Office +	Home +	
Fax	Office +	Home +	
E-mail			
Date of Birth			
Passport No.			
Expiry Date			
Primary language*			

* For nominees whose primary language is **not** English, this nomination form **must** be accompanied by a relevant language proficiency certificate as a necessary condition for acceptance.

Qualifications (certificates, diplomas or degrees):

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Training in the field of meteorology (other than as noted in above):

.....

Present position and brief description of current duties (please include public weather services functions, if any):

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Brief description of past relevant professional/operational experience (please include experience in aspects of public weather services (e.g. media work, working with disaster management, public outreach and education, etc.) if any and/or relevant planned future work/activities):

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.....

Name and address of person to be notified in case of emergency:

.....
.....
.....

Please complete if financial assistance is required from WMO:

Support required: YES ☐ NO ☐

.....
Date

.....
Signature of Permanent Representative

To be completed and returned by fax + 41 22 730 8021 or by mail, at the latest by **22 February 2019** to:

The Secretary-General
World Meteorological Organization
Case postale 2300
CH-1211 GENEVA 2
Switzerland

Attn: Dr Taoyong Peng (TPeng@wmo.int)
Copy: Ms Anne-Claire Fontan (acfontan@wmo.int)
 Ms Catherine Bihute (cbihute@wmo.int)

TCP/WDS
