



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
COMMISSION OCÉANOGRAPHIQUE INTERGOUVERNEMENTALE
COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ
اللجنة الدولية الحكومية لعلوم المحيطات
政府间海洋学委员会

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(Available in English only)

IOC/AF/TFG/sh
29 July 2015

To : Official National Coordinating Bodies for Liaison with the IOC

cc : The Chair and Vice-Chairs of the Commission
Permanent Delegates/Observer Missions to UNESCO of IOC Member States
National Commissions for UNESCO of IOC Member States
Mr Jon Turton, DBCP Chair
Mr Johan Stander, JCOMM Co-president for Marine Meteorology
Ms Nadia Pinardi, JCOMM Co-president for Oceanography
Mr Wenxi Zhu, IOC Coordinator IOC-WESTPAC

Subject: IOC-WMO Fourth Capacity Building Workshop of the Data Buoy Cooperation Panel (DBCP) for the North Pacific Ocean and Its Marginal Seas (NPOMS-4) (Busan, Republic of Korea, 2-4 November 2015)

Actions required: 1. To nominate a participant of your country to attend the Workshop; and
2. To notify the IOC Secretariat, of the name and contact details of the experts, as soon as it is possible, **but preferably no later than 31 August 2015**

You will recall that the Joint WMO-IOC Data Buoy Cooperation Panel (DBCP) is an official body of the World Meteorological Organization (WMO) and of the Intergovernmental Oceanographic Commission (IOC) of UNESCO. The work of the Panel supports the Observations Programme Area, overseen by the Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM).

During its thirtieth Session (Weihai, China, Oct. 2014), the Panel, drawing from the success of the first several DBCP PANGEA Workshops recognized the value of continued efforts to hold In-region Capacity Building activities. In particular, the Panel concurred with the recommendation from the Third DBCP Capacity Building Workshop for the North Pacific Ocean and Its Marginal Seas (NPOMS-3, Kyoto, Japan, 6-8 October 2014) to organize a fourth NPOMS workshop in 2015. The Panel also reaffirmed its desire to actively encourage the participation of developing nations in the Panel's activities, as a means for nations to assist the Panel in achieving and sustaining its objectives for a globally distributed data buoy network.

In this context, the DBCP is now pleased to organize and sponsor the Fourth Capacity Building Workshop of the WMO/IOC Data Buoy Cooperation Panel (DBCP) for the North Pacific Ocean and Its

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Marginal Seas (NPOMS-4) to be held in Busan, Republic of Korea, from 2 to 4 November 2015, at the kind invitation of the Korea Ocean and Maritime University (KMOU). The objective of the Workshop will be to enhance nations' capacity to apply ocean observations for societal benefit. The workshop will address the use of ocean observations to improve Typhoon Track and Intensity Forecasts for the benefit of nations in the NPOMS region impacted by Typhoons. The goals of the Workshop are listed in Annex 1. This Workshop is a realization of the JCOMM PANGEA concept <http://www.jcomm.info/pangea-concept>.

The Workshop will be conducted in English only. Enclosed you will find a copy of the Workshop Goals (Annex 1), for your information. The Programme, Local Arrangements (i.e., accommodation, visas, etc.); and any other information pertinent to the Workshop will be posted, in due course, on the JCOMM website, under the dedicated web page: <http://www.jcomm.info/NPOMS-4>

The Workshop is primarily designed for typhoon forecasters, ocean data users, researchers and buoy operators in countries of the **East Asia Region**. The curriculum will cover: the regional programmes on typhoon; processes and mechanisms of typhoon-ocean interaction; application and improvement of ocean observations for typhoon; and enhancing regional and national human, institutional and infrastructure capacity to deliver socio-economic benefits from ocean observations. Trainers are being drawn from a wide spectrum of the international ocean community.

I encourage you to nominate potential trainees using the attached Nomination/Registration form (Annex 2). The Workshop will offer an exceptional opportunity for participants both to learn new skills and to make significant and ongoing contributions to major international programmes.. Please note that a similar invitation letter to this event is circulated by the WMO.

A selection committee will be set-up with a view of selecting from all the nominations received the most qualified experts in the area of marine meteorological and oceanographic (met-ocean) forecasting or met-ocean observations. The selection committee will deliberate by the beginning of September 2015 and will inform the selected experts accordingly.

In order to allow sufficient time to consider all the nominations and complete the selection process in a timely fashion, it would be greatly appreciated if your reply could reach the IOC Secretariat, **as soon as possible, but no later than 31 August 2015**, preferably via email, to the attention of Dr Thomas Gross, at t.gross@unesco.org with copy to: Mr Etienne Charpentier, at echarpentier@wmo.int. Also, it should be noted that selected participants will be required to present a valid passport (6 months beyond the date of travel), and obtain the necessary entry and/or transit visas, in due course.

Finally, I indeed look forward to the active participation of operators and scientists currently involved in this important and rewarding initiative. In this context, you are welcome, in your capacity of Permanent Representative of your country with IOC, to nominate experts from either your oceanographic or meteorological institutions, or any other national institutions specializing in the subject field.

Yours sincerely,



Albert Fischer
Head of Section
Ocean Observations and Services
IOC, UNESCO

ANNEX I

GOALS OF THE WORKSHOP

The Following Goals and Associated Actions reflect the needs of this NPOMS-4 Workshop and of the long-term Ocean-Climate Monitoring Capacity for Cyclogenesis and Forecasting:

1. Continue to build regional collaboration to improve the implementation of ocean observations for improving typhoon track and intensity forecasts, and estimating the impacts of typhoons on ocean environment,
 2. Review recent, on-going and planned regional programs on typhoon and its interaction with the ocean,
 3. Discuss new advances in our understanding of the processes and mechanisms of typhoon-ocean interaction,
 4. Build Regional 1) human, 2) institutional and 3) infrastructure capacity needed to acquire, process and deliver rapid deployment, potentially from aircraft, of operational data buoys, floats, gliders, etc. for the collection of buoy data, and related data management, for improving typhoon forecast accuracy,
 5. Demonstrate the crucial role of ocean observations in the Western Pacific, such as for understanding and predicting regional cyclogenesis,
 6. Continue to Learn Practical Implementation Skills for the Deployment of Operational Data Buoys at Sea, the Collection of Buoy Data, and Related Data Management,
 7. Continue to Align with Objectives of the *Global Framework for Climate Services* (GFCS) and Global Framework for Ocean Observations to Deliver Ocean Data to the End-User,
 8. Enhance Coordination and Cooperation between the DBCP Task Team for Capacity Building (TT-CB), WMO Regional Associations (RA-II/V) and the IOC Sub-Commission for the Western Pacific (WESTPAC).
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Annex 2

NOMINATION / REGISTRATION FORM

IOC-WMO Fourth Workshop of DBCP Capacity Building for the North Pacific Ocean and Its Marginal Seas with a Focus on Typhoon

The Government of:

proposes the following nomination:

NOTE TO THE NOMINATED PARTICIPANT:
PLEASE COMPLETE ALL THE QUESTIONS IN THIS FORM. PLEASE WRITE CLEARLY, AND
SUBMIT IT, PREFERABLY, IN ELECTRONIC FORMAT.

Mr /Mrs /Dr /etc	Mr / Ms *	Dr*/ Professor / Eng / etc.
Family name	Ghafarian	
First name	Parvin	
Job title	Assistant Professor	
Professional specialization	Atmospheric and Climate Modeling,	
Graduation degree(s)	phD	
ADDRESS: Dept/Div.	Iranian National Institute for Oceanography and Atmospheric Science Atmospheric Science Research Center	
Street	Etemad Zadeh ST., Fatemi Ave.,	
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State/Province/etc	Tehran	
COUNTRY	Iran	
Tel. number(s)	+982166944873	
Fax number(s)	+982166944869	
Email(s) - PLEASE WRITE YOUR E-MAIL(S) VERY CLEARLY		
E-mail (1) p.ghafarian@inio.ac.ir		
E-mail (2) p_ghaffarian@hotmail.com		
Job responsibilities: Researcher for Atmospheric and Climate Modeling Researcher for Storms in different scales such as Tropical Storms, Waterspouts and ...		
Financial assistance is requested for: travel <input type="checkbox"/> per diem <input type="checkbox"/>		

Annex 2

QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP	
1.	<p>Please indicate the plans you may have in your country for;</p> <p style="margin-left: 20px;">(i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or;</p> <p style="margin-left: 20px;">(ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities).</p> <p><i>N.B.: Please use a separate sheet to provide a brief description on this question.</i></p>
1.	<p>Please indicate the plans you may have in your country for;</p> <p style="margin-left: 20px;">(i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts;</p> <p style="margin-left: 20px;">(ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities).</p> <p><i>N.B.: Please use a separate sheet to provide a brief description on this question.</i></p>
3.	<p>Do you have an understanding of physical oceanography and the basics in geophysical fluid dynamics (e.g. Equation of State, etc.)? I know Navier Stockes equations and I had passed Fluid dynamics course.</p>
4.	<p>What operating system will you have on your laptop (e.g. PC/Windows, Linux-Ubuntu, Linux-Mandriva, etc.)? I have Windows in my laptop, also I have Virtual machine and I had installed Linux fedora on it.</p> <p>4.1. What is your level of knowledge and experience with your Operating System (O/S), and with an alternative system (with Windows in case your O/S is Linux; and with Linux in case your O/S is Windows)?</p> <p>I'm expert in Linux and Windows O / S.</p>
5.	<p>What do you expect from this Training Workshop?</p> <p>I expect that workshop hold for operational purpose and to teach us how detect and forecast TC with new technique</p>
6.	<p>In your view, what would make the Training Workshop successful?</p> <p>The workshop will be successful, If the participant learn new technique for forecasting TC</p>
7.	<p>Do you have any questions or comments? No</p>
8.	<p>Did you participate at NPOMS-1, 2 or 3? No</p>

PLEASE NOTE, ONLY NOMINATION/REGISTRATION FORMS, SIGNED BY THE PERMANENT REPRESENTATIVE (PR) OF YOUR COUNTRY WITH WMO OR THE IOC ACTION ADDRESSEE(S) OF YOUR COUNTRY, WILL BE CONSIDERED.

Name of PR with WMO or IOC Action Addressee:

Date:

(Signature of the Permanent Representative with WMO or IOC Action Addressee)

Please return the completed form before 31 August 2015, preferably by e-mail, to the attention of Mr Tom Gross, t.gross@unesco.org, with cc: Mr Etienne Charpentier, echarpentier@wmo.int, and/or to the WMO Secretariat, at:

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