

中国气象局

CHINA METEOROLOGICAL ADMINISTRATION

46 Zhongguancun Nandajie, Beijing 100081, China



Date: 24 August 2015

To: Mr. M. Jarraud, Secretary-General, WMO

Fax No.: +41 22 730 8181

From: Dr. ZHENG Guoguang, Permanent Representative of China with WMO

Attachments: 4

Our Ref.: CMA/F1/WMO/15-103

Subject: Nomination to the NPOMS-4

Dear Mr. M. Jarraud,

I wish to refer to your letter dated 24 July 2015, concerning the Fourth Capacity Building Workshop of the WMO/IOC Data Buoy Cooperation Panel (DBCP) for the North Pacific Ocean and Its Marginal Seas (NPOMS-4) to be held in Busan, Republic of Korea, from 2 to 4 November 2015.

I am pleased to nominate Mr. LIN Liangxun, Mr. OU Jianjun, Ms. GU Hua and Ms. LI Xiaoxia to participate in this workshop.

Please find attached the nomination forms for your consideration.

With my best personal regards,

Sincerely yours,

(ZHENG Guoguang)
Permanent Representative
of China with WMO

WORLD METEOROLOGICAL ORGANIZATION

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8778-15/OBS/WIGOS/OSD/MAR/NPOMS4, ANNEX 2

NOMINATION / REGISTRATION FORM

**IOC-WMO Fourth Capacity Building Workshop of the Data Buoy Cooperation Panel (DBCP)
for the North Pacific Ocean and Its Marginal Seas**

The Government of: China

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	<input checked="" type="checkbox"/> / Ms	Dr / Professor / Eng / etc.
Family name	LIN	
First name	Liangxun	
Job title	Chief Forecaster	
Professional specialization	Meteorology	
Graduation degree(s)	Bachelor Degree	
ADDRESS: Dept/Div.	Guangdong Meteorological Observatory, China Meteorological Administration	
Street	6, Fujin Road	
Suite/Office/etc	Guangdong Meteorological Service	
City /postal codes	Guangzhou/510080	
State/Province/etc	Guangdong	
COUNTRY	China	
Tel. number(s)	+862087678951, +8613660398627	
Fax number(s)	+862087774919	
E-mail(s) - PLEASE WRITE YOUR E-MAIL(S) VERY CLEARLY		
E-mail (1) liangxun_lin@grmc.gov.cn		
E-mail (2) qxt_llx@163.com		
Job responsibilities:		
As a chief forecaster, I am responsible for forecast technology guidance and making tropical cyclone and heavy rain forecast.		
Financial assistance is requested for: travel <input checked="" type="checkbox"/> per diem <input checked="" type="checkbox"/>		

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QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP	
1.	<p>Please indicate the plans you may have in your country for:</p> <ul style="list-style-type: none"> (i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or; (ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities). <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> <ul style="list-style-type: none"> (i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts; (ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities). <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.)? Yes, I have an understanding of the basics in atmospheric dynamics.</p>
4.	<p>What operating system will you have on your laptop (e.g. PC/Windows, Linux-Ubuntu, Linux-Mandriva, etc.)? Windows.</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>Skilled in Windows.</p>
5.	<p>What do you expect from this Training Workshop? I would like to learn something about improving tropical cyclone track and intensity forecast with buoy data.</p>
6.	<p>In your view, what would make the Training Workshop successful?</p> <p>Experienced teachers and operational skills.</p>
7.	<p>Do you have any questions or comments?</p> <p>No.</p>
8.	<p>Did you participate at NPOMS-1 or NPOMS-2?</p> <p>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: Dr ZHENG Guoguang

Date:

24 August 2015


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

Please return the completed form before 31 August 2014, 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:

World Meteorological Organization, Observing and Information Services Department (OBS)
P.O. Box 2300, CH-1211 GENEVA 2, Switzerland
Fax: (+41 22) 730 8021

Please indicate the plans you may have in your country for:

(iii) initialization/maintenance ocean observing systems in Eastern Asia region, and/or;

(iv) cooperation with international programmes regarding the implementation of such systems(e.g. through the provision of instrument deployment opportunities).

N.B.:Please use a separatesheet to provide a brief description on this question.

In the recent 10 years, 4 buoy stations have been installed in the offshore waters of Guangdong for improving tropical cyclone forecast. In the next years, studies will be carried out on data continuity and rationality analysis to support suggestion of maintenance.

Please indicate the plan you may have in your country for:

(iii)utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts;

(iv)cooperation with international programmes regarding the implementation of such systems(e.g. through the provision of instrument deployment opportunities).

N.B.:Please use a separatesheet to provide a brief description on this question.

Lead Guangdong tropical cyclone research group to study:

- 1) research on tropical cyclone intensity determination.**
- 2) tropical cyclone abrupt intensity change in offshore waters of Guangdong province.**
- 3) the relationship between average winds and gusts within tropical cyclone circulation.**

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8778-15/OBS/WIGOS/OSD/MAR/NPOMS4, ANNEX 2

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Mr /Mrs /Dr /etc	<input checked="" type="checkbox"/> / Ms	Dr / Professor / Eng / etc.
Family name	Ou	
First name	Jianjun	
Job title	Buoy operator engineer	
Professional specialization	Buoy data processing and analysis	
Graduation degree(s)	Master's Degree (Atmospheric Physics and Atmospheric Environment)	
ADDRESS: Dept/Div.	Shanghai Marine Meteorological Centre	
Street	No. 36 on Haiji Six Road	
Suite/Office/etc	Department of Marine Meteorology Observation	
City /postal codes	Shanghai, 201306	
State/Province/etc	Shanghai	
COUNTRY	China	
Tel. number(s)	+86 - 21-68282206	
Fax number(s)	+86 - 21-68282227	
E-mail(s) - PLEASE WRITE YOUR E-MAIL(S) VERY CLEARLY		
E-mail (1) ivoolong@163.com		
E-mail (2) oujianj@gmail.com		
Job responsibilities: Mainly engaged in marine meteorology buoy management and to ensure the normal operation of 10 buoys distributed in the Yellow Sea and the East Sea of China region. Also work on buoy data analysis and application, for instance, using buoy data to study the local ocean dynamic response to typhoon, and freak wave under impact of typhoon, etc.		
Financial assistance is requested for: travel <input checked="" type="checkbox"/> per diem <input checked="" type="checkbox"/>		

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QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP

1.	<p>Please indicate the plans you may have in your country for:</p> <p>(i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or;</p> <p>(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>(i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts;</p> <p>(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.)? Yes. See attached for more.</p>
4.	<p>What operating system will you have on your laptop (e.g. PC/Windows, Linux-Ubuntu, Linux-Mandriva, etc.)? Windows.</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)? I am skilled with Windows and Linux.</p>
5.	<p>What do you expect from this Training Workshop? See attached.</p>
6.	<p>In your view, what would make the Training Workshop successful? Rich experience of the lecturers, and team discussion on experience.</p>
7.	<p>Do you have any questions or comments? It would be helpful if the course will continue on line in the future.</p>
8.	<p>Did you participate at NPOMS-1 or NPOMS-2? No.</p>

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Name of PR with WMO or IOC Action Addressee: Dr ZHENG Guoguang

Date: 24 August 2015


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

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P.O. Box 2300, CH-1211 GENEVA 2, Switzerland
Fax: (+41 22) 730 8021

QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP	
1	<p>please indicate the plans you may have in your country for:</p> <p>(i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or (ii) cooperation with international programmes regarding the implementation of such systems</p> <p>In the responsible region of Shanghai Marine Meteorological Center, there are 10 buoys, 5 ship stations for meteorological observation, 28 automatic weather observation stations on islands, 2 tide gauge stations and 4 wave stations. These stations were co-built with marine related domestic institutions, such as Maritime Safety Administration of China, Institute of Oceanology of Chinese Academy of Science, Xiamen University and so on. The instrument maintenance and protection are completed together with our cooperation partners.</p>
2	<p>Please indicate the plans you may have in your country for:</p> <p>(i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts; (ii) cooperation with international programmes regarding the implementation of such system</p> <p>Our buoys play an important role in measuring typhoon strength and location determination. The location of East China Sea Buoy is at 31N, 124.5E. The distance between the buoy and typhoon Bolaven (2012) is 110km, and the distance to typhoon Tembin (2012) is 50km. Both of them are in the radius of the 50 knot wind speed and can reveal the eye wall and core structure. Super typhoon HaiKui (2012) made landfall on the north of Zhejiang Province. East China Sea Buoy, Sea Reef Buoy and Channel Buoy were located respectively out of the radius of the 34 knot wind speed out of radius of 50 knot wind speed and in the radius of 50 knot wind speed. These observations verified the accuracy of typhoon intensity identified by CMA.</p>
3	<p>Do you have an understanding of physical oceanography and the basics in geophysical fluid dynamics (e.g. Equation of State, etc.)</p> <p>I mainly studied atmospheric physics and atmospheric environment courses in my graduate student stage. Since I came into Shanghai Marine Meteorological Center after graduation I began to learn the oceanographic knowledge, especially marine meteorological observation and application of observation data.</p>
4	<p>What operating system will you have on your laptop (e.g. PC / Windows, Linux-Ubuntu, Linux-Mandriva, etc.)?</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)? Skill with Windows and familiar with Linux.</p>
5	<p>What do you expect from this Training Workshop?</p> <p>As a buoy operator and manager, I hope to learn the experience of management and operation of the buoy equipment through this training. And I also wish to learn the method to select the key areas to locate buoys, quality control and application of the buoy data.</p>

6	In your view, what would make the Training Workshop successful? Teachers with rich experience and group discussion
7	Do you have any questions or comments? It would be helpful if online-study could be organized in the future.
8	Did you participate at NPOMS-1 or NPOMS-2? No.

WORLD METEOROLOGICAL ORGANIZATION

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8778-15/OBS/WIGOS/OSD/MAR/NPOMS4, ANNEX 2

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Mr /Mrs /Dr /etc	Mr / <input checked="" type="checkbox"/> Ms	Dr / Professor / Eng / etc.
Family name	GU	
First name	HUA	
Job title	Typhoon Forecaster	
Professional specialization	Typhoon forecast	
Graduation degree(s)	Master Degree in meteorology	
ADDRESS: Dept/Div.	Typhoon Forecast Div. , Typhoon and Marine Weather Forecast Centre , NMC ,CMA	
Street	46 Zhongguancun Nandajie	
Suite/Office/etc	National Meteorological Centre	
City /postal codes	Beijing, 100081	
State/Province/etc	Beijing	
COUNTRY	China	
Tel. number(s)	+86 - 10 68400457	
Fax number(s)	+86 - 10 62172956	
E-mail(s) - PLEASE WRITE YOUR E-MAIL(S) VERY CLEARLY		
E-mail (1) guhua@cma.gov.cn		
E-mail (2) guhua1999@126.com		
Job responsibilities: Typhoon analysis and forecast including center location and intensity analysis , forecast for typhoon track and its intensity and precipitation.		
Financial assistance is requested for: travel <input checked="" type="checkbox"/> per diem <input checked="" type="checkbox"/>		

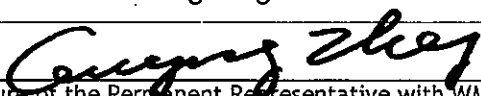
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QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP	
1.	<p>Please indicate the plans you may have in your country for:</p> <ul style="list-style-type: none"> (i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or; (ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities). <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> <ul style="list-style-type: none"> (i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts; (ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities). <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.)? Yes.</p>
4.	<p>What operating system will you have on your laptop (e.g. PC/Windows, Linux-Ubuntu, Linux-Mandriva, etc.)? Windows.</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>Skilled in Windows.</p>
5.	<p>What do you expect from this Training Workshop?</p> <p>To deepen the understanding of the typhoon-ocean interactions.</p>
6.	<p>In your view, what would make the Training Workshop successful?</p> <p>1. More communications. 2. To make practicable cooperation plans.</p>
7.	<p>Do you have any questions or comments?</p> <p>The current situation of ocean observing system in East Asia is not very clear to me.</p>
8.	<p>Did you participate at NPOMS-1 or NPOMS-2?</p> <p>No.</p>

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Name of PR with WMO or IOC Action Addressee: Dr ZHENG Guoguang

Date: 24 August 2015


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World Meteorological Organization, Observing and Information Services Department (OBS)
P.O. Box 2300, CH-1211 GENEVA 2, Switzerland
Fax: (+41 22) 730 8021

Appendix to GU Hua's nomination form

QUESTIONS TO THE EXPERIMENTAL TRAINING WORKSHOP

Q1. please indicate the plans you may have in your country for:

(i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or (ii) cooperation with international programmes regarding the implementation of such systems

- 1) An integrated ocean and marine meteorological observing system is crucial for CMA to provide better service to the nation through reduced damage of typhoon, improved understanding of climate change. CMA takes the development of the sustainable ocean observing capability as a priority. By far, overall 290 island based stations, 382 shore based stations, 39 volunteer observing ships (VOS), 30 buoys, 15 of offshore platform based stations, 5 geostationary meteorological satellites (FY-2E, FY-2F, FY-2G, FY-3B, FY-3C), 11 boundary wind profiler, as well as other observing facilities were effectively integrated at national and regional levels. In the near future, CMA will deploy more automated weather stations on islands, vessels and more buoys in China seas, and build new observation ships.
- 2) Cooperation with international programmes and organizations is very important for CMA regarding the sustainable operations and quality assessment of ocean observing systems, information exchange, the integration of multi-source observing data and efficient transformation of these data into useful products and services. CMA is willing to be involved in existing and future international programmes and make contributions to the improvement of ocean observing systems in the East Asia region.

Q2. Please indicate the plans you may have in your country for:

(i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts; (ii) cooperation with international programmes regarding the implementation of such system

- 1) A quick assimilation system is under study which will incorporate different types of marine observations including buoys, ship observations and islands observations, radar data etc. and will produce an analysis gridded field in China seas.
- 2) GRAPES Regional Typhoon Prediction Model (GRAPES-TYM) is a typhoon prediction model developed by NMC/CMA based on CMA GRAPES-MESO model. More ocean observing data will be used in GRAPES-TYM, which will be useful to improve the model forecast ability.
- 3) The geostationary satellite FY-2F could be switched into intensified observations mode with minimal temporal observing interval of 5 minutes to capture the occurrences and evolution characteristic of TCs. FY-2F is very important in TC monitoring and forecasting.

WORLD METEOROLOGICAL ORGANIZATION

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Mr /Mrs /Dr /etc	Mr / Ms Mrs	Dr / Professor / Eng / etc. Senior engineer
Family name	LI	
First name	Xiaoxia	
Job title	Senior engineer	
Professional specialization	Marine observation, mainly on moored buoy operation, research and data analysis	
Graduation degree(s)	Master	
ADDRESS:	Meteorological Observation Centre	
Dept/Div.		
Street	46, Zhongguancun Nandajie	
Suite/Office/etc	China Meteorological Administration	
City /postal codes	100081	
State/Province/etc	Beijing	
COUNTRY	China	
Tel. number(s)	8610-58995861	
Fax number(s)	8610-68409001	
E-mail(s) - <i>PLEASE WRITE YOUR E-MAIL(S) VERY CLEARLY</i>		
E-mail (1) lxxaoc@cma.gov.cn		
E-mail (2) lixiaoxia868@163.com		
Job responsibilities:		
Responsible for evaluating China's marine meteorological observation system and doing research in buoy operation and data analysis in China Meteorological Administration.		
Financial assistance is requested for: travel <input checked="" type="checkbox"/> per diem <input checked="" type="checkbox"/>		

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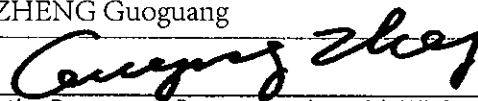
QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP

1.	<p>Please indicate the plans you may have in your country for:</p> <ul style="list-style-type: none"> (i) initialization/maintenance ocean observing systems in Eastern Asia region, and/or; (ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities). <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> <ul style="list-style-type: none"> (i) utilizing ocean observing systems in Eastern Asia region, for improving typhoon track and intensity forecasts; (ii) cooperation with international programmes regarding the implementation of such systems (e.g. through the provision of instrument deployment opportunities). <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.)? Yes.</p>
4.	<p>What operating system will you have on your laptop (e.g. PC/Windows, Linux-Ubuntu, Linux-Mandriva, etc.)? PC/Windows</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>Skilled with Windows system</p>
5.	<p>What do you expect from this Training Workshop?</p> <p>Moored buoy data operating method, data quality control method and related data management.</p>
6.	<p>In your view, what would make the Training Workshop successful?</p> <p>Effective communication.</p>
7.	<p>Do you have any questions or comments?</p> <p>No.</p>
8.	<p>Did you participate at NPOMS-1 or NPOMS-2?</p> <p>No.</p>

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QUESTIONS TO THE EXPERT NOMINATED FOR THE TRAINING WORKSHOP:

1. Please indicate the plans you may have in your country for:

- (1) initialization/maintenance ocean observing systems in eastern Asia region ,and/or;
- (2) cooperation with international programmes regarding the implementation of such systems(through the provision of instrument deployment opportunities)

Several moored buoy will be installed to meet the forecast and service requirements. Drifting buoy observation experiment would be conducted in the future. We will exchange the experiment methods with collaborators.

2. Please indicate the plans you may have in your country for:

- 1 Utilizing ocean observing systems in eastern Asia region for improving typhoon track and intensity forecasts;
- 2 Cooperation with international programmes regarding the implementation of such systems(through the provision of instrument deployment opportunities)

The moored and drifting buoy observation experiment will provide more data to improve typhoon track and intensity forecasts. The existing methods of data analysis would be improved.