



World Meteorological Organization
Organisation météorologique mondiale

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 – www.wmo.int

Weather • Climate • Water
Temps • Climat • Eau

Our ref.: OBS/WIGOS/OSD/MAR/RMIC

GENEVA, 8 October 2012

Annexes: 2 (available in English only)

Subject: Second JCOMM Marine Instrument Workshop for the Asia-Pacific Region (Tianjin, China 3-5 December 2012)

Action required: To nominate participant(s) of your country to attend the Workshop and submit the Nomination/Registration form as soon as possible, but **preferably no later than 24 October 2012**

Dear Sir/Madam,

You will recall that the WMO-IOC Regional Marine Instrument Center for the Asia-Pacific Region (RMIC for ASIA-PACIFIC) was established by the World Meteorological Organization (WMO) and the Intergovernmental Oceanographic Commission (IOC) of UNESCO through WMO Congress Resolution 9 (Cg-XVI) and IOC Resolution XXVI-9. The RMIC for ASIA-PACIFIC holds activities in support of the Observation Programme Area (OPA), under the auspices of the Joint WMO-IOC Technical Commission for the Oceanography and Marine Meteorology (JCOMM).

In accordance with its Terms of Reference (JCOMM-III Recommendation 1), the goals of the RMIC for ASIA-PACIFIC are: (i) to assist WMO Members/IOC Member States within its region in calibrating their national meteorological standards and related oceanographic monitoring instruments according to the RMIC capabilities; (ii) to organize training workshops; and (iii) to organize marine instrument inter-laboratory comparisons. It should be noted that recently, the RMIC for ASIA-PACIFIC has begun to offer calibration services (seawater conductivity/salinity, seawater temperature, seawater depth, tide, wave) to WMO Members/IOC Member States.

Following the successful outcome of the First Workshop on Marine Instrumentation for the Asia-Pacific Region, held in Tianjin, China, in July 2011 (see JCOMM Meeting Report No. 87¹), I am pleased to inform you that the Second JCOMM Marine Instrument Workshop for the Asia-Pacific Region, focusing on the Calibration of CTD², will be held at the RMIC in Tianjin, China, from 3 to 5 December 2012, at the kind invitation of the National Center of Ocean Standards and Metrology (NCOSM), China State Oceanic Administration (SOA). The objectives of the Workshop are: (i) to enhance the Members/Member States capability with regard to their CTD operations; (ii) to facilitate the calibration and maintenance of marine instruments (CTD in particular); and (iii) to improve the data quality control of marine observations.

To: Permanent Representatives of Members of Regional Association II (ASE-616)

¹ <ftp://ftp.wmo.int/Documents/PublicWeb/amp/mmop/documents/JCOMM-MR/JCOMM-MR-87-Rev2-RMIC2.pdf>

² Water CTD - conductivity, temperature and depth

As a Member of Regional Association II, you are cordially invited to nominate one or two experts to attend the Workshop. China will organize and sponsor the event, and provide full financial assistance (travel, lodging, meals, and local transportation) to selected participants from developing countries, as well as partial financial support (including lodging, meals, local transport, equipments and materials, i.e., excluding travel to China) to other selected candidate participants. Please note that the Workshop will be conducted in English.

Attached you will find, in Annex I, the Workshop Objectives as well as practical information, and in Annex II the Expert Nomination/Registration Form. All information relative the Workshop will be posted, in due course, under the JCOMM Website:

<http://www.jcomm.info/rmic2-ra2>.

The local coordinator and contact person in Tianjin is:

Mr Fan JIANG
E-mail: jlzxws@ncosm.gov.cn
Tel.: +(86 22) 2753 9525

I would appreciate it if you would kindly notify the WMO Secretariat, to the attention of Mr Etienne Charpentier (echarpentier@wmo.int), as soon as possible but preferably **not later than 24 October 2012**, whether you will be able to nominate one or two experts from your country, and in the affirmative, to please arrange to have the completed Nomination/Registration Form sent to Mr Fan JIANG (via e-mail), indicating whether financial assistance will be required.

Also, please note that participants will be required to present a valid passport (6 months beyond the date of the travel), and to obtain the necessary entry and/or transit visas. Selected participants will receive a letter of invitation to the Workshop from the SOA to enable them to apply for their visas at the nearest Chinese Embassy/Consulate in their own countries.

Yours faithfully,



(J. Lengoasa)
for the Secretary-General

WORLD METEOROLOGICAL ORGANIZATION

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OBS/WIGOS/OSD/MAR/RMIC, ANNEX I

ABOUT THE WORKSHOP

The Second JCOMM Marine Instrument Workshop for ASIA-PACIFIC

(Tianjin, China, 3-5 December 2012)

1. Background

1.1 The concept of the WMO-IOC Regional Marine Instrument Centre (RMIC) was put forth by the JCOMM Pilot Project for WIGOS: Establishing a world network of RMICs with the aim to facilitate adherence of observational ocean data, metadata, and processed observational products to higher level standards for marine instruments and methods of observation.

1.2 The third session of the WMO-IOC Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM-III), held in Marrakech, Morocco, from 4 to 11 November 2009, agreed that the establishment of RMICs would be essential to promote standardization and inter-comparability of instrumentation and data, and therefore adopted Recommendation 1 (JCOMM-III) – Establishment of WMO/IOC Regional Marine Instrument Centers, which defines the Terms of Reference of a RMIC, including capabilities and corresponding functions, and a mechanism for formal WMO and UNESCO/IOC designation of a RMIC. The WMO-IOC Regional Marine Instrument Center for the Asia-Pacific Region (RMIC for ASIA-PACIFIC) was established by the World Meteorological Organization (WMO) and the Intergovernmental Oceanographic Commission (IOC) of UNESCO through WMO Resolution 9 (Cg-XVI) and IOC Resolution XXVI-9. A RMIC certificate was granted to the National Center of Ocean Standards and Metrology (NCOSM) on the occasion of the fourth JCOMM session, Yeosu, Republic of Korea, from 23 to 31 May 2012.

1.3 The first JCOMM Marine Instrumentation Workshop for the Asia Pacific Region was held in Tianjin, China, from 11 to 13 July 2011 by the WMO-IOC Regional Marine Instrument Center for the Asia-Pacific Region.

The Workshop recalled the importance of ocean observations to achieve socio-economical benefits at the global, regional, national, and local (e.g. Tianjin city) levels by: (i) addressing the requirements of WMO and IOC's Programmes including the Global Framework for Climate Services (GFCS); and (ii) working in the multi-disciplinary frameworks of the IOC-WMO-UNEP-ICSU Global Ocean Observing System (GOOS) and the WMO Integrated Global Observing System (WIGOS).

Participants acknowledged the importance of standards and quality management on marine meteorology and oceanographic measurements, and received comprehensive information on instrument standards, instrument calibration and intercomparisons (for waves observations), real-time and delayed-mode data exchange, Quality Management Systems, and Quality Control best practices for realizing the integration of ocean observations into the GOOS and WIGOS frameworks, and thus meeting the requirements of WMO and IOC Programmes. Training was conducted on measurements and calibration, including theory and practice, of the following types of instruments:

- Sea Water Temperature Instrument
- Sea Water Conductivity Instrument
- Laboratory Salinometer
- Sea Water Pressure Instrument
- Wave Buoy
- Tide Meter

The first Workshop report (JCOMM MR No. 87) can be downloaded from the following FTP site: <ftp://ftp.wmo.int/Documents/PublicWeb/amp/mmop/documents/JCOMM-MR/JCOMM-MR-87-Rev2-RMIC2.pdf>

2. Second JCOMM Marine Instruments Workshop

2.1 Workshop Organizer and Participants. The Second JCOMM Marine Instruments Workshop will be organized and conducted by the WMO-IOC Regional Marine Instrument Center for the Asia-Pacific Region, which was established on the basis of the National Center of Ocean Standards and Metrology (NCOSM) of SOA, China.

Potential participants to the Workshop include scientists, experts, researchers, engineers and government managers involved in the fields of oceanography and marine meteorology from Member countries of WMO and IOC of the Asia-Pacific region, as well as members of RIMCs.

2.2 Objectives. The Workshop is especially designed for training on the theory, standards, methods, procedure, practice and data processing of the calibration of marine instruments (CTD in particular), aiming at improving participants' capacity of applying CTD instruments, therefore improving the data quality of ocean observation on a regional basis. Also, the Workshop will serve as a platform for discussions on methods, procedures and techniques of the intercomparison of CTD instruments as well as other ocean observation instruments. This work will contribute to the global intercomparison activities in the future.

The Workshop will be conducted through class sessions, hands-on exercises and discussions:

- ✓ Best practices in operating and handling calibration of CTD;
- ✓ Training on calibration and troubleshooting techniques;
- ✓ Hands on operation and calibration of CTD;
- ✓ Information sharing and networking among the countries within and outside the region;
- ✓ Training on data quality control of marine observation;
- ✓ Discussion on the methods and procedure of international intercomparison for marine instruments.

All information related to the Workshop will be made available on the JCOMM Website under: www.jcomm.info/rmic2-ra2.

2.3 Date and Venue. The Workshop will be held at the JCOMM RMIC for the Asia-Pacific Region, 219 W Jieyuan Road, Nankai District, Tianjin, China, from 3 to 5, December 2012.

2.4 Sessions. The Workshop will include a short Welcome Ceremony on the first day, followed by: (i) a Training Session, from which the participants will learn standards, methods and procedures of the operation and calibration of CTD instruments, data quality control of marine observation; (ii) a Practice Session that will offer an opportunity for participants to not only watch but to actually do the tests by themselves; and (iii) a Discussion Session during which the participants will exchange their learning and practicing experience, also will discuss the methods and procedures of international intercomparison for marine instruments in the region.

2.5 Working Language. The Workshop will be conducted in English.

2.6 Coordinator and Liaison. Mr JIANG Fan is the coordinator and liaison person for the Workshop. For detailed information about the Workshop please contact him at :

Tel.: +(86 22) 2753 9525
Fax: +(86 22) 2753 2971
E-mail: jlzxws@ncosm.gov.cn

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OBS/WIGOS/OSD/MAR/RMIC, ANNEX II

NOMINATION/REGISTRATION FORM

Second JCOMM Marine Instrument Workshop for ASIA-PACIFIC

Tianjin, China, 3-5 December 2012

The Government of: _____

proposes the following nomination:

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

Salutation (Mr, Mrs, Dr, etc.)	
Family Name	
Given Name	
Job Title	
Professional Specialization	
Graduation Degree(s)	
Address - Organization	
Dept./Work Unit	
Street	
Suite/Office	
City/Zipcode	
State/Province	
Country	
Telephone (office)	
Telephone (mobile)	
Fax	
E-mail(s)	
Job Responsibilities:	
Requests for Financial Assistance	<input type="checkbox"/> NO financial assistance required <input type="checkbox"/> Limited financial support (lodging, meals, local transport) <input type="checkbox"/> Full financial support (travel, lodging, meals, local transport)

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

Name of PR with WMO:

Signature and date:

PLEASE RETURN THE COMPLETED FORM **BEFORE 24 OCTOBER 2012** to the attention of
 Mr JIANG FAN, AT: jlzxws@ncosm.gov.cn