Agenda Item 4.15 - Requests for Capacity Building Tides and Water Levels Workshops

- 1. For a number of years there have been various requests for the development and delivery of a 5 day Tides and Water Levels workshop. The development of the course and associated training material falls under the remit of the TWLWG, although the actual delivery could be undertaken by any qualified instructor and not necessarily a member of the TWLWG.
- 2. The Capacity Building Sub-Committee (CBSC) has reported a growing demand for such a course from the Regional Hydrographic Commissions (RHCs). Three fully funded courses have been approved for the 2014 CB work programme:
- i. SAIHC Nairobi, Kenya
- ii. RSAHC Abu Dhabi, UAE
- iii. EAHC venue to be confirmed

Funding is available for the attendance of one student from each Member State within each RHC and one from the host Member State, with additional places available on a self funding basis. Travel and Subsistence is also available for the instructor. Dates for these courses can be agreed on availability of instructors and venues.

- 3. It is considered that the regions require the basics of tidal theory, chart datums, geodetic control etc. It was understood by CBSC that the TWLWG had developed such a 5 day course, based on one previously delivered by NGA/NOAA, and that there were WG members who be able to deliver the training.
- 4. It should be noted that within the framework of the Global Sea Level Observing System (GLOSS) and the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS), the Intergovernmental Oceanographic Commission (IOC) of UNESCO, have developed a similar course, one of which was recently delivered in Bangkok, Thailand, 17-21 March, see Enclosure 1.
- 5. It is anticipated there will be further demand for this course in future years and therefore it would seem appropriate to coordinate this capacity building effort with all engaged agencies.
- 6. The TWLWG is requested to:
 - a. Note this report;
 - b. Confirm availability of appropriate course and training material;
 - c. Consider their availability to instruct a course; and
 - d. Take what other actions are deemed appropriate.

To: GLOSS National Contacts

ICG/IOTWS Tsunami Warning Focal Points (TWFP) ICG/IOTWS Tsunami National Contacts (TNC)

Cc: ICG/IOTWS Officers

ICG/IOTWS Working Group Chairs and Vice Chairs

Official National Coordinating Body for liaison with the IOC Member States Permanent Delegates/Observer Missions to UNESCO of IOC Member States WESTPAC, SE Asia GOOS, Indian Ocean GOOS, Royal Thai Navy Hydrographic

Department, IHO, WMO

Subject: Training Course for Operators of Sea Level Stations, 17–21 March 2014, Royal Thai Navy Hydrographic Department, Bangna, Bangkok, Thailand

Within the framework of the Global Sea Level Observing System (GLOSS) and the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS), the Intergovernmental Oceanographic Commission (IOC) of UNESCO jointly with the Royal Thai Navy Hydrographic Department, is organizing a Training Course for Sea Level Operators to be held in Bangna, Bangkok, Thailand from 17-21 March, 2014.

IOC of UNESCO is inviting your institution to nominate a sea level station operator/technician to participate in this training course. The person should be responsible for conducting/supporting the maintenance/installation/analysis of the sea level station in your country; have experience with the maintenance or data analysis of observational stations (hydromet, geophysical); levelling or data processing experience/training/education, and should hold a permanent position with a national agency. The language of the workshop will be in English.

[...]

The IOC Secretariat



政府间海洋学委员会

UNESCO - 1, rue Miollis - 75732 Paris cedex 15, France http://ioc-unesco.org - fax: +33 (0)1 45 68 58 10 - contact phone: +33 (0)1 45 68 39 83/84 E-mail: w.watson-wright@unesco.org

IOC Circular Letter N° 2508

(Available in English)

IOC/WWW/TA 21 January 2014

To: GLOSS National Contacts

ICG/IOTWS Tsunami Warning Focal Points (TWFP) ICG/IOTWS Tsunami National Contacts (TNC)

cc: ICG/IOTWS Officers

ICG/IOTWS Working Group Chairs and Vice Chairs

Official National Coordinating Body for liaison with the IOC Member States Permanent Delegates/Observer Missions to UNESCO of IOC Member States

WESTPAC, SE Asia GOOS, Indian Ocean GOOS

Royal Thai Navy Hydrographic Department

IHO, WMO

Subject: Training Course for Operators of Sea Level Stations, 17–21 March 2014, Royal

Thai Navy Hydrographic Department, Bangna, Bangkok, Thailand

Dear Colleagues,

Within the framework of the Global Sea Level Observing System (GLOSS) and the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS), the Intergovernmental Oceanographic Commission (IOC) of UNESCO jointly with the Royal Thai Navy Hydrographic Department, is organizing a Training Course for Sea Level Operators to be held in Bangna, Bangkok, Thailand from 17-21 March, 2014.

IOC of UNESCO is inviting your institution to nominate a sea level station operator/technician to participate in this training course. The person should be responsible for conducting/supporting the maintenance/installation/analysis of the sea level station in your country; have experience with the maintenance or data analysis of observational stations (hydromet, geophysical); levelling or data processing experience/training/education, and should hold a permanent position with a national agency. The language of the workshop will be in English.

The course outline will include the following topics: introduction to sea level observations, tidal theory; analysis of tide gauge data; introduction to harmonic analysis; introduction to tidal analysis software; hands on training sessions; visit to a sea level station; tide gauge levelling and datum control; real time sea level observations and the use of the Global Telecommunication System (GTS); and satellite radar altimetry. .../...

Chairperson

Sang-Kyung BYUN Principal Research Scientist Climate Change & Coastal Disaster Research Dept. Korea Institute of Ocean Science and Technology (KIOST) 787 Haeanlo Ansan 426-744 REPUBLIC OF KOREA

Executive Secretary

Dr Wendy WATSON-WRIGHT Intergovernmental Oceanographic Commission — UNESCO 1, rue Miollis 75732 Paris Cedex 15, FRANCE

Vice-Chairpersons

Prof. Peter M. HAUGAN Director, Geophysical Institute University of Bergen Allegaten 70 5007 Bergen NORWAY

Dr Atanas PALAZOV Director, Institute of Oceanology – Varna Bulgarian Academy of Sciences P.O. Box 152 Varna 9000 BULGARIA Capt. Frederico Antonio SARAIVA NOGUEIRA Directorate of Hydrography and Navigation Rue Barão de Jaceguai, s/n° Ponta da Armação Niterói, Rio de Janeiro CEP 24.048.900 BRAZIL

Prof. Yutaka MICHIDA University of Tokyo Member of National Committee for IOC Kashinoha 5-1-5 Kashiwa 277-8564 Chiba JAPAN Prof. Adoté Blim BLIVI Chef de Recherche Head of CGILE Ministère de l'Enseignement Supérieur et de la Recherche University of Lomé, B.P. 1515 Lomé 228 TOGO Participants are also expected to provide a presentation on their national sea level observing activities.

The Intergovernmental Oceanographic Commission (IOC) of UNESCO will be able to cover air ticket and per diems for a limited number of participants nominated by the official IOC or Tsunami National Contact (TNC). A letter of recommendation from the head of the department/institution of the nominee should also be provided. Kindly notify the IOC – Ms Elena lasyreva (e.lasyreva@unesco.org) copied to: t.elliott@unesco.org and t.aarup@unesco.org. Priority for sponsorship will be given to participants from Member States of the Northern Indian Ocean and the SE Asia region. Please provide nominations no later than 16 February 2014.

Yours sincerely,

[Signed]

Wendy Watson-Wright
Executive Secretary, IOC
Assistant Director-General, UNESCO

Enclosure (1): Registration form

REGISTRATION FORM

Training Course for Operators of Sea Level Stations, March 17-21 2014, Royal Thai Navy Hydrographic Department, Bangna, Bangkok, Thailand

Name as it appears in your Passport:		
Title:		
First Name	Last Name	
Passport Number:		
Date of Issue:		
Place of Issue:		
Valid until:		
Nationality:		-
Date of Birth:		_
Place of Birth:		_
Organization:		_
Job title (or position):		_
Sea Level Station Expertise:		
Complete Office Address:		<u> </u>
Contact Phone Number:		
Fax number:		
E-mail address:		
Name and location of the Airport of departure:		
Please send all necessary details to the atte	ntion of Ma Flans	

Please send all necessary details to the attention of Ms Elena lasyreva, (E-mail: e.lasyreva@unesco.org - copied to: t.aarup@unesco.org - Fax - (33) 1 456 85 810.