Welcome to join WESTPAC Community

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First Vice-Chair, IOC Sub-Commission for the Western Pacific
Workshop “Enhance the awareness on toxic marine organisms”
Institute of Oceanography, Nha Trang, Vietnam, 13-15 December 2010
IOC/WESTPAC is an international organization composed of 20 governments, and its mission is to assist scientists who want to study on subjects related to marine science.

Major Outcomes of the Eighth Intergovernmental Session of WESTPAC
10-13 May, 2010, Bali Indonesia

http://westpac.unescobkk.org
WESTPAC/IOC member countries

Member States and their focal points for IOC/WESTPAC (as of 2005)

Click on the flag for information of their representatives.

- Australia
- Philippines
- China
- Russian Federation
- Fiji
- Samoa
- France
- Singapore
- Indonesia
- Solomon Islands
- Japan
- Thailand
- Korea, DPR
- Tonga
- Rep. of Korea
- United Kingdom
- Malaysia
- United States of America
- New Zealand
- Vietnam
Delegates at the WESTPAC-VIII

Eighty-six delegates and representatives from 12 IOC/WESTPAC Member States and 5 international/regional organizations and programmes. The Kingdom of Cambodia also sent their delegation to the session for the first time since the establishment of WESTPAC in 1989.
WESTPAC Projects: Objectives

- Enhance marine scientific knowledge and promote its application
- Demonstrate the value of observation through the development of regional ocean observing systems
- Improve the regional capacity in the study and management of their coasts and oceans in the forms of international workshops, training courses, joint cruises, field surveys, and exchange of scholars and students
Enhancing the knowledge and Promoting its application

WESTPAC-Harmful Algal Bloom

Objectives:
• To understand the biological, biochemical and ecological nature of harmful algae and the events caused by them

Progress:
• a series of “training through research” conducted before last session with improved scientific knowledge;
• Extensive consultations made to strengthen WESTPAC-HAB with emphasis on outreach activities.
Objectives

- improve the understanding of the Physical processes of marine hazards and their responding mechanisms to global climate change by means of observations, dynamic analysis and numerical methods;
- quantify the trends of the typical marine hazards

Progress

- Two International Workshops were organized in Nov. 2008 and Dec. 2009
- Pilot areas and research priority identified
- First joint cruise organized in Jun. 2009 with data sharing among participating members
Fluvial Sediment Supply to the South China Sea: Anthropogenic and Natural Aspects

Objectives
i) Investigate source and transport of fluvial sediment discharge to the South China Sea over geological past: fractionating anthropogenic influence from natural trend
ii) predict the future sediment discharge.

Progress
• Two International Workshop organized;
• Four fieldworks/cruises carried out;
• Bilateral scientific visits organized.
• Several scientific papers published
Marine and Coastal Biodiversity and its Management

Objectives

- To review the regional status on the marine invasive species;
- To understand and provide scientific basis for marine biodiversity management;
- To establish the effective management plan and monitoring programs for marine biodiversity among WESTPAC country members.

Progress

- **WESTPAC Workshop on Marine Invasive Species and Management organized**, Bangkok, 4-5 June 2009
- **Poster developed for public awareness**
- **one regional status Report on Marine Non-indigenous Species 2009 under editing**
- **Training Workshop on Rapid Assessment of Marine Non-indigenous under preparation with secured funding**
Coral reef under Climate and Anthropogenic Perturbation

Objectives:

i. understand the biogeochemical and ecological nature of coral reefs in WESTPAC;

ii. evaluate the consequence of impact of climate change and other human activities on the health of coral reefs and their sustainable use;

iii. promote capacity building in areas related to research on coral reefs

Progress:

- IOC/WESTPAC Workshop on the Coral Reef under Climate and Anthropogenic Perturbations, Shanghai, China, 23-26 May 2009
- one regional synthesis report under development
- training and 2nd Workshop under preparation

Announcement on the IOC/WESTPAC Training Course “Impact of Sedimentary Dynamics and Biogeochemistry on Coral Reefs”, Koh Samui, Thailand, 15 – 18 June 2010

Call for Abstracts
Second IOC/WESTPAC Workshop on the “Coral Reefs under Climate and Anthropogenic Perturbations”, Phuket, 22-24 June 2010
Enhancing the knowledge and Promoting its application

Ocean Remote Sensing

Objectives:

• To advance remote sensing techniques and promote its application in the protection and management of marine environment

Progress:

• "New Generation Sea Surface Temperature" (NGSST) high-resolution SST digital data has continuously provided
• Regional ocean color algorithm developed in cooperation with the UNDP/YSLME) and UNEP/NOWPAP
• New activities on Remote Sensing for Coastal Habitat Mapping to be implemented

NGSST Data: http://www.ocean.caos.tohoku.ac.jp/%7Emerge/sstbinary/actvalbm.cgi?eng=1
Demonstrating the value of ocean observations and service through the development of Regional Ocean Observing Systems

North East Asian Regional-GOOS (NEAR-GOOS)

**Progress**

- Real-time and delayed mode database system smoothly operating and timely updated
- The available amount and types of data increased
- New data products developed
- Observing system and operational oceanographic system developed in the member states

**Objectives for the 2nd Phase of NEAR-GOOS**

Developing a comprehensive and sustained ocean observing network and a operational forecasting system in the region.
Monsoon Onset Monitoring and its Social & Ecosystem Impacts (MOMSEI)

Objectives: To improve the understanding and forecasting of Asia monsoon and its multi-scale variability; demonstrate the value of ocean observations for the society and ecosystem cons.

Ocean Forecast Demonstration

Objectives: To develop ocean forecasting system through the utilization and comparison of existing global ocean models, like MASNUM, BlueLINK

South East Asian Regional-GOOS (SEAGOOS)

Demonstrating the value of ocean observations and service through the development of Regional Ocean Observing Systems
Adopted New WESTPAC Projects

- Ocean Forecast Demonstration System

- DNA Taxonomy and Recruitment Monitoring of the Coral Reef Marine Organisms

- Ensuring Seafood Safety from Toxic Marine Organisms
Adopted Recommendations

Eighth WESTPAC International Scientific Symposium

Appreciates the generous offer of the Government of Republic of Korea to host the next Symposium;

Decides that the Eighth WESTPAC International Scientific Symposium be organized in 28-31 March 2011, Pusan, Republic of Korea;

Ninth Intergovernmental Session of WESTPAC

Appreciates the Government of Republic of Indonesia for hosting the Eighth Session on 10-13 May 2010, Bali, Indonesia and excellent arrangements made for the Session;

Accepts with appreciation the offer by the Government of Republic of Korea to host the Ninth Session in the second quarter of 2012, subject to the final endorsement of the relevant authorities.
WESTPAC is one of the regional subsidiary body of IOC.
Special thanks to all of you for coming to the founding workshop of the new project Ensuring Seafood Safety from Toxic Marine Organisms.

We hope you have a fruitful discussion on your activities.