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Report on the NOWPAP/PICES/WESTPAC Joint Training Course on Remote Sensing Data Analysis

8-12 October 2011 at Vladivostok, Russia

Introduction

The Second The NOWPAP/PICES/WESTPAC joint training course on remote sensing data analysis was organized by the NOWPAP Special Monitoring & Coastal Environmental Assessment Regional Activity Centre (CEARAC), the North Pacific Marine Science Organization (PICES) and IOC Sub-Commission for the Western Pacific (WESTPAC) at Far Eastern Federal University (FEFU) in Vladivostok, Russia on 8-12 October 2011. The training course was conducted for 22 selected trainees ([Appendix 1](#)), including postgraduate students, professional researchers and local government officers working in the field of marine sciences, from China, Japan, Korea, Russia, India, Indonesia and the Philippines. 10 lecturers from the NOWPAP countries (China, Japan, Korea and Russia) and Germany and USA delivered lectures on remote sensing applications for monitoring and assessment of the marine and coastal environment in the Northwest Pacific Region ([Appendix 2](#)).

Objectives

To provide opportunities for students, young researchers and coastal managers to obtain useful skills and knowledge to utilize remote sensing data to monitor and assess the coastal and marine environment

Date and Venue

The date and venue of this training course were as follows:

- Date; October 8 to 12, 2011
- Venue; Far Eastern Federal University, Vladivostok, Russia

Organization Structures

The training course was operated under the following organization structures:

- Organizer:
Special Monitoring & Coastal Environment Assessment Regional Activity Centre (CEARAC)
North Pacific Marine Science Organization (PICES)
IOC Sub-Commission for the Western Pacific (WESTPAC)
- Co-organizers and local host institutions:
V.I. Il'ichev Pacific Oceanological Institute (POI), Far Eastern Branch of the Russian Academy of Sciences
Far Eastern Federal University (FEFU)
- Supporters:
International Ocean Colour Coordinating Group (IOCCG)

22 trainees were selected out of 58 applicants by screening by the Organizing Committee consisting of experts in CEARAC, PICES and WESTPAC, based on the contents of submitted application.

Course Fee

Training course was provided for free of charge.

Course Program

Program of the NOWPAP/PICES/WESTPAC Joint Training Course on Remote Sensing Data Analysis

Day	Time	Program	Lecturers
Oct 8	9:20-10:50	Introduction to Satellite Oceanography (L)	Dr. Leonid Mitnik
	11:00-12:30	Introduction and recent progress in ocean color remote sensing part I(L) :Uncertainties in ocean colour remote sensing	Dr. Roland Doerffer
	13:30-15:00	Introduction and recent progress in ocean color remote sensing part II(L) :Correction of the influence of the atmosphere in Ocean Colour RS	Dr. Roland Doerffer
	15:15-16:00	Global Ocean Observing System and availability of oceanographic data in the Northwestern Pacific	Dr. Vyacheslav Lobanov
	16:00-17:00	Satellite Ocean Color: Challenges & the Software	Dr. Mati Kahru
Oct 9	9:00-10:30	Remote Sensing of Harmful Algal Blooms (L)	Dr. Raphael Kudela
	10:45-12:15	Primary Productivity (L)	Dr. Joji Ishizaka and Dr. Raphael Kudela
	13:30-15:00	Introduction into MERIS data and BEAM software (H)	Dr. Roland Doerffer
	15:00-17:00	Visualization and verification of ocean colour satellite data (H)	Dr. Mati Kahru
Oct 10	9:00-10:30	Eutrophication (L) Satellite based monitoring of marine and coastal environment of the Northwest Pacific (L)	Dr. Joji Ishizaka
	10:45-12:15	Introduction of GOCI status and validation activities (L)	Dr. Yu-Hwan Ahn
	13:30-17:00	Time series analysis of ocean colour data and detection of change (H)	Dr. Mati Kahru
Oct 11	9:00-10:00	Introduction to radiometric calibration of satellite solar reflective bands (L) : a review of FY-3 ocean color applications	Dr. Ling Sun
	10:00-10:30	Utilization of Landsat image (L)	Dr. Leonid Mitnik
	10:30-12:15	Utilization of SAR and optical images/data for monitoring of the coastal environment (L)	Dr. Natalia Evtushenko

	13:30-15:00	Analysis of high resolution optical sensor images (H)	Dr. Natalia Evtushenko
	15:10-17:30	Time series analysis of ocean colour data and detection of change (H)	Dr. Mati Kahru
Oct 12	9:00-10:30	Monitoring of oil pollution with the use of satellite imagery (L)	Dr. Leonid MITNIK
	10:50-12:15	Ocean Remote Sensing Project of Coastal Habitat Mapping (L)	Dr. Teruhisa Komatsu
	13:00-17:30	Assignment for all trainees (H)	
	17:00-17:30	Closing	

(L) Lecture

(H) Hands-on computer exercise

Training texts

Please click the below link to the training texts distributed during the course.

Training texts for the NOWPAP/PICES/WESTPAC Joint Training Course on Remote Sensing Data Analysis

Voices from trainees

Coming soon!



A group photo



Snapshots during the hands on practice

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