

1. Background

1.1 The 10th NOWPAP Intergovernmental Meeting (IGM) (Toyama, Japan, 24-26 November 2005) approved the new directions for the NOWPAP RACs including the new activities of CEARAC such as Land Based Sources of Pollution (with other RACs) and Marine Litter (with other RACs), and from the 2006-2007 biennium on, marine litter related activities have been added to CEARAC mandatory.

1.2 Following the 10th NOWPAP IGM decisions, the revised Terms of Reference (TOR) for the CEARAC FPM, which enables the FPM to establish and disband Working Groups of CEARAC, was submitted to the 4th NOWPAP CEARAC Focal Points Meeting (FPM) (Toyama, Japan, 8-9 March, 2006) and agreed to submit to the 11th NOWPAP IGM. It was also agreed to prepare the "Guidelines on establishment and disbanding of Working Groups of CEARAC" for the 5th CEARAC FPM. There was a request to prepare a document on long-term objectives of CEARAC regardless of budget.

1.3 The 11th NOWPAP IGM (Moscow, Russian Federation, 20-21 December, 2006) approved the revised TOR for the CEARAC FPM with minor amendments that were made at the 4th CEARAC FPM.

1.4 The draft workplan and budget of CEARAC activities for the 2008-2009 biennium were presented at the 5th CEARAC FPM (Toyama, Japan, 18-19 September 2007) and agreed to submit to the 12th NOWPAP IGM. Besides these documents, the proposed mid- and long-term strategies of CEARAC and goals of NOWPAP Working Group 3 (WG3) and Working Group 4 (WG4) and the proposed guidelines on establishment and disbanding of Working Groups of CEARAC were also presented. After discussion, the meeting agreed on these documents as well.

1.5 In line with the shrink of the total budget of NOWPAP, the budgetary allocation of CEARAC activities during the 2008-2009 biennium was reduced to US\$140,000 at the 12th NOWPAP IGM (Xiamen, China, 23-25 October 2007). In addition to this amount, US\$10,500 was allocated to CEARAC to implement the NOWPAP Regional Action Plan on Marine Litter (RAP MALI). In all, the total amount of CEARAC budget for the 2008-2009 biennium resulted in US\$150,500.

1.6 The 6th CEARAC FPM (Toyama, Japan, 6-8 March 2008) reviewed and approved the revised workplan and budget for the 2008-2009 biennium with minor modifications.

1.7 The detailed activities and expenditures for the 2008-2009 biennium are reported in agenda item 5 (UNEP/NOWPAP/CEARAC/FPM 7/4).

1.8 Upon the ending of the 2008-2009 biennium, the 7th CEARAC FPM is kindly requested to review and approve a proposal for the activities and budget of CEARAC for the next biennium, 2010 and 2011 taking into consideration the operation of the present WG3 and WG4 and potential additional activities of CEARAC for the future.

2. Proposal for activities for the 2010-2011 Biennium

2.1 Organization of the 8th and 9th CEARAC Focal Points Meetings back-to-back with Expert Meeting

The Eighth and Ninth CEARAC Focal Points Meetings will be held in Toyama, Japan in Summer 2010 and September 2011 respectively back-to-back with Expert Meeting to review and discuss the progress and outputs of activities.

The finalized workplan and budget in the 2010-2011 biennium based on the approval at the 14th NOWPAP IGM (Toyama, Japan, 8-10 December 2009) will be reviewed and approved by e-mail correspondences in the beginning of 2010.

The Eighth and Ninth CEARAC FPMs will also be organized back-to-back with Expert Meeting to review and approve the progress in implementation of the workplan and budget of CEARAC activities for the same biennium. During the meeting, the frame of workplan for CEARAC for the 2012-2013 biennium will be expected to be presented by the CEARAC Secretariat.

2.2 Maintenance of CEARAC websites

Regarding the workplan for the 2010-2011 biennium, CEARAC plans to implement some routine work for keeping the quality of the existing projects in close consultation with current WG experts. CEARAC plans to conduct maintenance and management work on CEARAC websites such as HAB Integrated Website, Ocean RS Portal Site, Homepage of RS Educational Materials and Website on Oil Spill Monitoring by RS in order to update and disseminate information on a regular basis.

CEARAC plans to develop the *Cochlodinium* Homepage in each member state languages in order to help the work by local stakeholders with support by CEARAC FPs and WG3 experts.

2.3 Specific Projects -CEARAC Projects-

CEARAC will continue implementing designated activities in cooperation with CEARAC Focal Points, experts of Working Group 3 and 4 and related regional and international organizations.

By now, CEARAC has emphasized implementation of activities on WG3, WG4 and marine litters; however, in the light of completion of current WG3 and WG4 tasks and the increasing global focus on biodiversity, CEARAC will propose the initiation of a new activity along with series of activities that are underway.

2.3.1 Updating the Integrated Report on HABs for the NOWPAP Region

CEARAC developed the common format to share HAB-related information among the NOWPAP member states based on HAB Case Studies implemented in each member state. To share HAB-related information continuously, each member state is expected to submit the data and information annually. CEARAC will disseminate the information and summarize them regularly. During the 2010-2011 biennium, 5 years will have passed since the publication of the Integrated Report on HAB in the NOWPAP region, and CEARAC will update the Integrated Report using information submitted with common format from each member state. To cover HAB-related information in the other sea area where HAB occurs, it is expected that target sea areas in each member state will be expanded.

2.3.2 Updating the Integrated Report on Ocean Remote Sensing for the NOWPAP Region

Since the first issue of the Integrated Report on Ocean Remote Sensing for the NOWPAP Region in 2005, there has been extensive progress in the field of ocean remote sensing for monitoring of marine and coastal environment in the world. Some of those progresses have been collected and disseminated through maintaining website on Ocean Remote Sensing Portal Site and website on oil spill monitoring by remote sensing, and it is proposed to update the Integrated Report on Ocean Remote Sensing for the NOWPAP Region during 2010-2011 biennium.

2.3.3 Organization of the Third NOWPAP Training Course on Remote Sensing Data Analysis

The third training course will be held in 2010-2011 biennium. The venue will be in China as the last two courses were held in Japan and Korea.

2.3.4 Implementation of the assessment of eutrophication status by the NOWPAP member states

Assessment of eutrophication status in the sea areas of each NOWPAP member state will be conducted using the procedure for assessment of eutrophication status including evaluation of land based sources of nutrients for the NOWPAP Region.

2.3.5 Development of the new marine assessment method focusing on marine biodiversity

CEARAC will develop the new coastal environmental assessment method which use indicators on marine biodiversity with in-kind support by Northwest Pacific Region Environmental Cooperation Center (NPEC).

2.4 Intersessional Work

CEARAC will conduct activities other than the above mentioned Specific Projects – CEARAC Projects (2.4) in close consultation with Focal Points and WG members.

2.5 Cooperation, coordination with NOWPAP and other international activities throughout the 2010-2011 biennium

CEARAC will keep close contact with NOWPAP RCU, other RACs, UNEP and relevant regional and international organizations in order to promote implementation and development of NOWPAP. Taking every opportunity, CEARAC will participate in meetings and/or workshops held by NOWPAP RCU, other RACs, UNEP and relevant regional and international organizations to exchange information and data and disseminate past and present CEARAC activities.

2.6 Publication of CEARAC annual newsletter

The seventh and eighth issues of CEARAC Newsletter will be published in autumn 2010 and 2011 respectively. Besides the digital format of the newsletters, 350 copies will be printed for each issue and distributed to people who are concerned with CEARAC activities and special monitoring and coastal environmental assessment for free of charge.

3. Additional Workplan

3.1 Activities on marine litter

NOWPAP has implemented activities on marine litter based on the Regional Action Plan of Marine Litter in the 2008-2009 biennium. To solve marine litter issue in the NOWPAP region, these activities should be continued in the future. At the 14th NOWPAP IGM and Marine Litter Expert Meeting, this issue will be discussed by the member states, and CEARAC will implement activities on marine litter in the 2010-2011 biennium following the decision of these Meetings.

4. Proposal for new activities for the 2010-2011 biennium

Estimated budget for the 2010-2011 biennium is US\$ 140,000. The proposed workplan, budget and timetable are shown in Table 1.

Table 1 Workplan and Budget of CEARAC for the 2010-2011 biennium

Activity	Planned Budget (US\$)			Tentative Time
	2010	2011	Total	
Organization of CEARAC Focal Points Meeting back-to-back with Expert Meeting (HAB(1), RS(1), Eutrophication(1), Biodiversity(1); It is expected that CEARAC FPs in each member state are included this member)	30,000	30,000	60,000	8 th FPM with Expert Meeting Summer 2010 9 th FPM with Expert Meeting Sep. 2011
Maintenance of Websites WG3 - Updating HAB Integrated Website - Development of the website in each language WG4 - Updating Ocean Remote Sensing Portal Site - Updating Website on the RS Educational Materials	7,000 4,500 1,000 1,500	5,000 2,500 1,000 1,500	12,000 - - -	
Specific project WG3(HAB) -Updating the Integrated Report on HAB WG4(RS) -Updating the Integrated Report on Ocean Remote Sensing - 3 rd NOWPAP Training Course on RS Data Analysis WG3 and WG4(joint) - Implementation of the assessment of eutrophication status by the NOWPAP member states Biodiversity - Development of the new marine assessment method focusing on marine biodiversity	8,000 15,000 16,000 In kind	2,000 5,000 4,000 In kind	50,000 - - In kind (to be implemented by NPEC)	
Intersessional work	3,000	3,000	6,000	

Cooperation and coordination of CEARAC activities	4,000	4,000	8,000	
Publication of CEARAC Newsletter	2,000	2,000	4,000	Autumn 2010 and 2011
TOTAL	85,000	55,000	140,000	