

Annex V

Report of the CEARAC activities for the 2004-2005 biennium and planned activities for the 2006-2007 biennium

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1. Introduction

1.1 The 9th Intergovernmental Meeting (IGM) (Busan, the Republic of Korea, 2-4 November 2004) agreed on the workplan and budget of entire NOWPAP for the 2004- 2005 biennium including the budget of US\$150,000 for the CEARAC activities (UNEP/NOWPAP/IG.9/5/1).

1.2 Following the workplan and budget for CEARAC 2004-2005 biennium, CEARAC has implemented the specific activities together with the four NOWPAP Members including CEARAC Focal Points and experts of NOWPAP Working Group 3 (WG3) and Working Group 4 (WG4). In order to carry out the designated projects and activities, a total amount of US\$150,000 has been spent in 2004 and 2005.

1.3 At the 3rd CEARAC Focal Points Meeting (FPM), the detailed expenditures for the 2004-2005 biennium were reported in Agenda Item 5 (UNEP/NOWPAP/CEARAC/FPM 3/4), then the draft workplan for CEARAC 2006-2007 biennium was presented by the CEARAC secretariat, and the meeting agreed to submit them to the 10th IGM (Toyama, Japan, 24-26 November 2005). The total budget of this draft workplan for CEARAC for the 2006-2007 biennium was US\$150,000 (Annex UNEP/NOWPAP/IG.10/4/1), and there was a possibility of additional budget pending by the approval of 10th IGM.

1.4 The 10th IGM approved the workplan and budget for entire NOWPAP for the 2006-2007 biennium including the allocation of CEARAC budget, US\$150,000, which was requested by CEARAC. The IGM also approved the Marine Litter Activity in the NOWPAP Region (MALITA). Moreover, the IGM approved the budget for MALITA as RCU proposed: US\$70,000 as a total budget, and US\$15,000 allocated to CEARAC for the activity. However, CEARAC allocation in MALITA increased by US\$19,500 following further discussions after the IGM; therefore, the total amount of CEARAC allocation for the 2006-2007 biennium resulted in US\$169,500.

1.5 The 4th CEARAC FPM (Toyama, Japan, 8-9 March 2006) approved the workplan and budget for CEARAC for this biennium (UNEP/NOWPAP/CEARAC/FPM 4/8). The meeting adopted the draft Terms of Reference (TOR) for CEARAC FPM (UNEP/NOWPAP/CEARAC/FPM 4/5) submitted by CEARAC Secretariat, and the meeting also agreed on submitting it to the 11th IGM of NOWPAP. In addition to that,

the meeting adopted the Terms of Reference (TOR) for NOWPAP WG3 (UNEP/NOWPAP/CEARAC/FPM 4/6) and WG4(UNEP/NOWPAP/CEARAC/FPM 4/7) with minor changes.

2. Detailed Activities for the 2004-2005 Biennium

table 1

Workplan and Budget of CEARAC for the 2004-2005 Biennium

Activity	Date & Venue	Responsibility	Planned Budget US\$	Expenditure US\$
Organization of CEARAC 2 nd Focal Points Meeting	March 2004; Toyama, Japan	CEARAC with assistance of RCU, UNEP and IOC-UNESCO	24,000	19,183
Publication of CEARAC Newsletter	August 2004	CEARAC	2,000	2,005
Preparation of National Reports of WG3(HAB)	June 2004-March 2005	FP with assistance of experts or consultants from each NOWPAP Member country	16,000	16,000
Preparation of National Reports of WG4(RS)	June 2004-March 2005	FP with assistance of experts or consultants from each NOWPAP Member country	16,000	16,000
Organization of 2 nd Meeting of WG3(HAB)	November 2004; Qingdao, China	CEARAC with assistance of Institute of Oceanology, Chinese Academy of Science (IOCAS)	18,000	17,875
Organization of 2 nd Meeting of WG4(RS)	October 2004; Beijing, China	CEARAC with assistance of China National Environmental Monitoring Center (CNEMC)	15,000	13,838
Harmonization of WG3 National Reports	September 2005	CEARAC through a regional consultant	3,000	2,750*
Harmonization of WG4 National Reports	September 2005	CEARAC through a regional consultant	3,000	2,750*
Organization of CEARAC 3 rd Focal Points Meeting	September 2005	CEARAC with assistance of RCU, UNEP and IOC-UNESCO	23,000	22,544
Publication of CEARAC Newsletter	November 2005	CEARAC	2,000	1,863
Preparation of Integrated Report of WG3	Throughout 2005	CEARAC through a regional consultant	5,000	4,613*
Preparation of Integrated Report of WG4	Throughout 2005	CEARAC through a regional consultant	5,000	4,613*
Printing of National/Integrated Reports	November/December 2005	CEARAC	4,000	13,661
Intersessional Work	Throughout 2004 and 2005	CEARAC in cooperation with relevant organizations	6,000	5,873

Cooperation and coordination of CEARAC activities	Throughout 2004 and 2005	CEARAC in cooperation with UNEP, IOC-UNESCO and relevant organizations	8,000	6,432
TOTAL			150,000	150,000

* Although the budget was denominated in US dollars, actual payments were done in Japanese yen. The numbers in the table are calculated ones based on the exchange rate upon the payments.

2.1 Organization of CEARAC FPM

2.1.1 Organization of the 2nd CEARAC FPM

The 2nd CEARAC FPM was held on 15-17 March 2004 in Toyama, Japan. The Focal Points of the four NOWPAP Members, representatives of NOWPAP/DINRAC and NOWPAP/MERRAC, the director of NOWPAP/POMRAC and the secretariat of CEARAC participated in the meeting.

The main achievements of the meeting were as follows:

- (1) The meeting reviewed the budget of CEARAC for the 2002-2003 biennium and noted the achievements of the intersessional work.
- (2) The meeting adopted the Terms of References (TOR) for NOWPAP WG3 (HAB) and NOWPAP WG4 (RS) and discussed the specific activities and Work Plans on HAB and RS.
- (3) Furthermore, the meeting approved the draft workplan and budget of CEARAC for the 2004-2005 biennium.

Expenditure: US\$ 19,183

2.1.2 Organization of the 3rd CEARAC FPM

The 3rd CEARAC FPM was held on 15-16 September 2005 in Toyama, Japan. The Focal Points of the four NOWPAP Members, representatives of the four RACs, the coordinator and the administrative officer of NOWPAP RCU and the secretariat of CEARAC participated in the meeting.

The main achievements of the meeting were as follows:

- (1) The meeting reviewed the budget of CEARAC activities for the 2004-2005 biennium as well as the activities of WG 3 and W4.
- (2) The meeting reviewed the CEARAC workplan for the 2006-2007 biennium, in which MALITA, a new activity of CEARAC was included. The draft workplan and budget were approved.
- (3) The meeting agreed to submit all the approved reports and drafts to the 10th IGM for adoption.

Expenditure: US\$22,544

2.2 Organization of the 2nd WG3 (HAB) meeting

The 2nd NOWPAP WG3 (HAB) meeting was held on 25-26 November 2004 in Qingdao, the People's Republic of China with a warm support of the Institute of Oceanology, Chinese Academy of Science (IOCAS).

The main achievements of the meeting were as follows:

- (1) The meeting reviewed the progress made on the National Reports of WG3(HAB)
- (2) The meeting reviewed the development of HAB reference database and Cochlodinium Corresponding Group
- (3) The meeting discussed the contents of the Integrated Report of WG3(HAB)

Expenditure: US\$ 17,875

2.3 Organization of the 2nd WG4 (RS) meeting

The 2nd NOWPAP WG4 (RS) meeting was held on 14-15 October 2004 in Beijing, the People's Republic of China, with a warm support by the China National Environment Monitoring Center (CNEMC).

The main achievements of the meeting were as follows:

- (1) The meeting reviewed the progress made in the National Reports of WG4(RS)
- (2) The meeting reviewed the development of RS information network system such as a portal site on remote sensing and a web site on RS for oil spill monitoring
- (3) The meeting discussed the contents of the Integrated Report of WG4(RS)

Expenditure: US\$ 13,838

2.4 Intersessional Work for the 2004-2005 biennium

CEARAC has carried out the activities such as compiling the National and the Integrated Reports of WG3 (HAB) and WG4 (RS), renewing CEARAC web page, and printing pamphlets of *Cochlodinium*.

Expenditure: US\$ 70,128

2.4.1 Preparation of the National Reports of WG3(HAB) and WG4(RS)

CEARAC concluded the MOU with consultants and experts of each NOWPAP Member in order to carry out the preparation of the National Reports on HAB and RS. The scope of work is to collect existing information, to analyze wide variety of collected information, to make recommendation for national priorities and future activities and to summarize and report these research activities.

Expenditure: WG3 (HAB) US\$16,000 (4@ \$4,000)

Expenditure: WG4 (RS) US\$16,000 (4@ \$4,000)

2.4.2 Harmonization of WG3(HAB) and WG4(RS) National Reports

CEARAC concluded the MOU with regional consultants in order to carry out the harmonization of each National Report. The National Reports sent by NOWPAP Members have different levels of information. Therefore, the regional consultants review the contents of all the National Reports and supplement information of the reports with additional data and explanations.

Expenditure: US\$5,500 (2@ \$2,750)

2.4.3 Preparation of the Integrated Reports of WG3(HAB) and WG4(RS)

CEARAC concluded the MOU with regional consultants in order to prepare the Integrated Reports of WG3 (HAB) and WG4 (RS). The regional consultants made the Integrated Reports of both Working Groups based on the National Reports. The Integrated Reports describe perspectives of the entire NOWPAP Region about Harmful Algal Blooms and Remote Sensing.

Expenditure: US\$9,226 (2@ \$4,613)

2.4.4 Printing of the National and the Integrated Reports of WG3 (HAB) and WG4 (RS)

The four National Reports which were authorized by each country on HAB and RS were published in one book respectively. Also, the Integrated Reports of each Working Group were published based on the National Reports, which were recognized as 'CEARAC Report'.

Expenditure: US\$13,661

2.4.5 CEARAC newsletter

The first issue of CEARAC Newsletter was published in September 2004; the second one was published in November 2005. They carry reports of implementation of CEARAC activities and future workplan and budget of CEARAC. The newsletters are distributed free of charge to people who are interested in CEARAC activities and special monitoring and coastal environment assessment.

Expenditure: US\$3,868

2.4.6 CEARAC web page maintenance

The CEARAC website greatly contributes to the wider publicity for CEARAC activities as well as CEARAC Newsletter. The improved homepage includes the National Reports and the Integrated Reports. Moreover, the improvement enables its users to easily access HAB Reference Database and a Portal Site on Remote Sensing.

Expenditure: US\$2,768

2.4.7 Printing pamphlets of *Cochlodinium*

Cochlodinium Corresponding Group (CCG), which is one of the activities of WG3 (HAB), published a pamphlet of *Cochlodinium*. CCG has collected information on *Cochlodinium*, one of the most concerned HAB species in the NOWPAP Region, and made *Cochlodinium* Homepage to give the information to the public. In order to disseminate information of this species to students, NGOs, and people who are interested in the marine environment, the homepage and the pamphlet are expected to be effective means.

Expenditure: US\$3,105

2.5 Cooperation, coordination of CEARAC activities throughout 2004 and 2005

CEARAC kept contact with NOWPAP RCU, other NOWPAP RACs, UNEP and other relevant regional and international organizations in order to promote the protection and management of the coastal and marine environment in the NOWPAP Region. Also under the same purposes, the director of CEARAC and his representative participated in Focal Points Meeting for DINRAC, MERRAC and POMRAC.

Expenditure: US\$6,432

2.5.1 Travel Expenses

The director of CEARAC attended the 9th NOWPAP IGM held on 2-4 November 2004 in Busan, the Republic of Korea and NOWPAP Intersessional Workshop held on 25-26 July 2005 in Seoul, the Republic of Korea.

Expenditure: US\$ 3,247

2.5.2 Communication and Others

CEARAC spent the allocated budget on communication and other related work of NOWPAP activities, such as express mail charges, remittance fees and office supplies.

Expenditure: US\$ 3,185

3. Proposed Activities for the 2006-2007 biennium

Table 2 Workplan and Budget of CEARAC for the 2006-2007 biennium

Activity	Planned date	Responsibility	Remarks	Planned Budget US\$
Organization of CEARAC 4 th Focal Points Meeting	March 2006	CEARAC with assistance of RCU, UNEP	Toyama, Japan	23,000
Organization of CEARAC 5 th Focal Points Meeting	September 2007	CEARAC with assistance of RCU, UNEP	Toyama, Japan	23,000
Organization of 3 rd Meeting of WG3 (HAB) and WG4 (RS) *	Summer 2006	CEARAC with assistance of RCU, UNEP	Toyama, Japan	30,000
Publication of CEARAC Newsletter	Summer 2006, 2007	CEARAC		4,000
WG3(HAB) - Booklet of Case Studies of Mitigation of Red Tides	2006 2007	CEARAC with assistance of consultant(s)		12,000 14,000
WG4(RS) - guideline - training	2006 2007	CEARAC with assistance of consultant(s)		15,000 15,000
MALITA	Through-out 2006 and 2007	CEARAC with assistance of consultant(s)		19,500
State of the Marine Report in NOWPAP region	2006			T.B.D
GEF PDF-B	Through-out 2006 and 2007			T.B.D
Intersessional work	Through-out 2006 and 2007	CEARAC in cooperation with UNEP and relevant regional organizations		6,000
Cooperation, coordination of CEARAC activities	Through-out 2006 and 2007	CEARAC in cooperation with UNEP and relevant regional organizations		8,000
TOTAL				169,500

*See3.2

3.1 Organization of the 4th and 5th CEARAC Focal Points Meeting

The 10th IGM agreed that the Fourth and Fifth CEARAC Focal Points Meeting would be held in Toyama, Japan in March 2006 and September 2007 respectively in order to carry out its designate goals and purposes, which are described in the Terms of Reference (TOR) for the CEARAC Focal Points Meeting.

The Fourth CEARAC Focal Points Meeting discussed the finalized budget of CEARAC for the 2006-2007 biennium after the 10th IGM and review the progress in implementation of the activities including the intersessional activities of NOWPAP WG3 (HAB) and WG4 (RS).

The Fifth CEARAC Focal Points Meeting will review and approve the progress in implementation of the workplan and budget for the 2006-2007 biennium. Other matters related to the special monitoring and coastal environmental assessment may be discussed on recommendation from the CEARAC Focal Points. During the meeting, the draft workplan for CEARAC for the 2008-2009 biennium will be expected to be presented by the CEARAC secretariat.

Budget: US\$46,000 (US\$23,000 @year)

3.2 Organization of the 3rd WG3 (HAB) and WG4(RS) meeting

The Third NOWPAP WG3 (HAB) and WG4 (RS) meetings are planned to be held jointly in Toyama, Japan, in summer 2006. The experts of both WGs requested a joint meeting to exchange information each other because the activities of WG3 (HAB) and WG4 (RS) were closely related and information exchange between the WGs were essential to promote their designated activities efficiently. The joint meeting will consist of combined sessions of both WGs and individual sessions. Projecting the organization of the new meeting, CEARAC proposes to hold it in Toyama for the optimum outcomes of this first joint meeting since the Secretariat is located there.

The meeting will review the outcome of the intersessional works, such as the development of the database on HAB and RS, and the Integrated Reports. Furthermore, the meeting will discuss the detailed workplan for the 2006-2007 biennium.

Budget: US\$30,000

3.3 Publication of the CEARAC Newsletter

The third and fourth issue of the CEARAC Newsletter will be published in summer 2006 and 2007 respectively, 500 copies each time, and will be distributed to people who are interested in CEARAC activities and with special monitoring and coastal environmental assessment.

Budget: US\$4,000 (US\$2,000 @year)

3.4 Specific activities for the 2006-2007 biennium

CEARAC will continue to work for implementing activities designated by the NOWPAP WG3 (HAB) and WG4 (RS) meetings in cooperation with CAERAC Focal Points, experts and related regional and international organizations. As for specific activities for the 2006-2007 biennium, CAEARC will develop (1) a booklet of countermeasures to terminate and mitigate red tides as the intersessional work of WG3 (HAB); (2) a guideline for eutrophication monitoring by RS and a RS training program on data analysis in the NOWPAP Region as the intersessional work of WG4 (RS); (3) implementation of MALITA, and (4) other intersessional works.

Budget: US\$75,500

3.4.1 Booklet of countermeasures to terminate and mitigate red tides

WG3 (HAB) will collect information on countermeasures to terminate and mitigate red tides and make a booklet based on the collected information in order to promote mitigation activities against red tides. CEARAC will ask WG3 (HAB) experts of each country to collect information and make reports on countermeasures against red tides in each country in 2006 by allocating funds to a consultant in each country (US\$2,000 for China; US\$3,000 for Japan; US\$3,000 for Korea; US\$2,000 for Russia) and hire a consultant in 2007 to harmonize information (US\$3,000), to integrate reports and to make a booklet (US\$5,000). By the end of 2007, the booklet will be printed (US\$4,000).

Although making the booklet is the main activity for WG3 for the next two years, maintenances and updates of HAB Reference Database and *Cochlodinium* Homepage will also be continued as WG3 activities (US\$2,000 each year).

Budget: US\$26,000 (US\$12,000 in 2006)
(US\$14,000 in 2007)

3.4.2 RS guideline and training

A guideline for eutrophication monitoring by RS was prepared by NPEC. CEARAC proposes WG4 (RS) members to further develop the guideline for eutrophication monitoring to suit for the situation of each county by allocating funds to a consultant in each country (US\$3,000 for China; US\$3,000 for Korea; US\$3,000 for Russia) and hire a consultant in Japan to harmonize information (US\$3,000). By the end of 2006, the guideline will be printed (US\$3,000).

With utilizing the guideline, a RS training program on data analysis will be conducted by CEARAC in 2007 with the cooperation of WG4 Members. Training textbook(s) (US\$3,000), training room(s) (US\$3,000), trainer(s) (US\$7,000) and all the rest to implement the training program will be offered (US\$2,000) by CEARAC.

Budget: US\$30,000 (US\$15,000 @ year)

3.4.3 MALITA

CEARAC is planning to implement several activities which were designated to CEARAC in MALITA. As the first step, CEARAC will develop and implement long-term regional and national monitoring programmes on land-based marine litter, including formats for data gathering and storage in consultation with NOWPAP RCU. Other CEARAC activities related to MALITA are;

- Development of regional and national strategies on integrated management of marine litter
- Formulation and implementation of awareness and education campaigns for general public, various groups within the tourist sector, industry, municipal authorities, and local communities
- Preparation of brochures in English for the purpose of promoting public awareness on the reduction of marine litter
- Preparation of brochures in Japanese for the purpose of promoting public awareness on the reduction of marine litter
- Development of sectoral guidelines for management of marine litter for tourism, coastal construction, and recycling
- Development of responsible citizenship guidelines for children and the youth
- Practical demonstration through awareness raising campaigns in selected destinations and with selected tourism campaigns

Budget: US\$19,500 (throughout 2006 and 2007)

3.4.4 The State of the Marine Report of the NOWPAP Region

CEARAC is designated to be responsible for some parts of “the State of the Marine Report of the NOWPAP Region” which will be edited by POMRAC. For example, the parts of harmful algal blooms, marine litter, persistent toxic substances are designated to CEARAC. CEARAC is willing to cooperate with POMRAC for this project with the budget which will be transferred from POMRAC.

Budget: T.B.D. (throughout 2006 and 2007)

3.4.5 GEF PDF-B

NOWPAP GEF PDF-B project was approved by the 10th NOWPAP IGM held in Toyama 24-26 November 2005, and it was submitted to the GEF secretariat to be adopted. The procedure of adoption is in progress at this moment. After the adoption by the GEF secretariat, CEARAC may take some roles on implementation of this project for the 2006-2007 biennium.

Budget: T.B.D. (throughout 2006 and 2007)

3.5 Intersessional Activities

CEARAC will revise its home page periodically in order to update information on coastal and marine environment in the NOWPAP Region and to publicize CEARAC activities to the public. The budget will be spent on other miscellaneous activities in consultation with Focal Points and experts.

Budget: US\$6,000 (throughout 2006 and 2007)

3.6 Cooperation, coordination of CEARAC activities throughout 2006 and 2007

CEARAC will keep close contact with NOWPAP RCU, other NOWPAP RACs, UNEP and relevant regional and international organizations such as IOC-WESTPAC in order to promote the development of Regional Seas Programme and implementation and development of NOWPAP.

Budget: US\$8,000 (throughout 2006 and 2007)