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**Northwest Pacific Action Plan
Pollution Monitoring
Regional Activity Center (POMRAC)**

The Ninth NOWPAP POMRAC Focal Points Meeting

Khabarovsk, Russian Federation
25-26 October 2011

REPORT OF THE 9TH NOWPAP POMRAC FOCAL POINTS MEETING

Introduction

1. The Action Plan for the Protection, Management and Development of the Marine and Coastal Environment of the Northwest Pacific Region (NOWPAP) and three Resolutions were adopted at the First Intergovernmental Meeting (Seoul, Republic of Korea, 14 September 1994). Resolution 1 identified five areas of priority for implementation of the Action Plan, one of which was NOWPAP/3: Establishment of a collaborative, regional monitoring programme.
2. Following the decision of the 3rd NOWPAP Intergovernmental Meeting, the responsibility for NOWPAP/3 (Regional Monitoring Programme) was jointly shared by the Special Monitoring and Coastal Environmental Assessment Regional Activity Center (CEARAC) and the Pollution Monitoring Regional Activity Center (POMRAC).
3. Following the results of discussions at the First NOWPAP/3 Meeting (Beijing, China, 21-22 May 2001), the 7th NOWPAP Intergovernmental Meeting (Vladivostok, 20-22 March 2002) approved the resolution 3.6, “the demarcation of the responsibilities and activities between CEARAC and POMRAC”. Subsequently POMRAC was allocated with the responsibility to implement activities related to Working Group (WG) 1 “Atmospheric Deposition of Contaminants” and WG 2 “River and Direct Inputs of Contaminants”.
4. The Tenth Intergovernmental Meeting of the Northwest Pacific Action Plan (Toyama, Japan, 24-26 November 2005) has approved plan of future actions “New Directions for the NOWPAP RACs and RCU”. Regarding POMRAC, that IGM confirmed the following for 2006 and future years: *“The Pollution Monitoring Regional Activity Center (POMRAC) in Vladivostok, Russia, currently has two Working Groups (WG1 on Atmospheric Input of Contaminants and WG2 on River and Direct Inputs of Contaminants). In 2005-2006, the experts of these working groups will prepare National Reports and then the Regional Overviews on these two issues. These documents might contribute to the State of Marine Environment Report in the NOWPAP Region which would be prepared in 2006-2007. Then, POMRAC might consider focusing on activities related to Integrated Coastal and River Basin Management which includes land-based sources of pollution. All activities related to land-based sources of pollution will be implemented in close collaboration with all NOWPAP RACs and with the UNEP/GPA”*.
5. The 4th NOWPAP POMRAC Focal Points Meeting (Qingdao, China, 25-26 April 2006) decided to implement several activities related to Integrated Coastal and River Basin Management in NOWPAP Region in 2006/2007, namely:
 - to create the Working Group for Integrated Coastal and River Basin Management (ICARM WG),
 - to organize the 1st Meeting of ICARM WG,
 - to prepare National Reports and Regional Overview on ICARM.
6. During January-June 2007 the NOWPAP POMRAC Working Group for Integrated Coastal and River Basin Management (ICARM WG) was created.
7. The 1st Meeting of NOWPAP POMRAC Working Group on Integrated Coastal and River Basin Management (Toyama, Japan, 10-11 July 2007) discussed Terms of Reference for NOWPAP ICARM Working Group, discussed and approved the structure and contents of National Reports for NOWPAP ICARM Working Group as well as the structure and contents of reference database for the WG, and discussed Workplan and Budget for ICARM activities of POMRAC in 2007/2008.
8. The 6th NOWPAP POMRAC Focal Points Meeting (FPM) held back-to-back with Working Group (WG1, WG2, ICARM WG) Meetings (Yantai, People’s Republic of China, 17-19 June 2008) reviewed the progress made in the intersessional period and discussed the preparedness of the National reports

presented by the member countries, reviewed and adopted workplans for WG 1, WG 2 and ICARM WG for 2008/2009, discussed and approved Workplan and Budget of POMRAC for 2008/2009, discussed and adopted the Structure and Contents of the Regional Overviews for WG1, WG2 and ICARM WG and the procedure of its compilation and discussed the updating of the Reference Databases on Atmospheric Deposition and River and Direct Inputs of Contaminants into the Marine and Coastal Environment (AD and RDI Reference Databases).

9. The 7th NOWPAP POMRAC FPM has discussed the results of POMRAC activities in 2008/2009, reviewed the Regional Overviews prepared by International Experts of POMRAC, provided recommendations on their harmonization and publishing; discussed future activities of the three working groups – WG1, WG2 and ICARM WG.

10. The 8th NOWPAP POMRAC FPM has reviewed and discussed major POMRAC activities in 2010/2011 in accordance with the decisions of the 14th NOWPAP Intergovernmental Meeting; reviewed, discussed and adopted structure and contents of the new activities of WGs for 2010/2011: "Case studies of atmospheric deposition of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region"; "Case studies of river and direct inputs of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region"; and also discussed activities of the ICARM WG.

11. The 9th NOWPAP POMRAC FPM has discussed the results of POMRAC activities in 2010/2011 and workplan and budget of POMRAC for 2012/2013 biennium, including discussion of future activities of the three working groups – WG1, WG2 and ICARM WG.

12. Focal Points and experts of the NOWPAP Members, namely China, Japan, Republic of Korea and Russia participated in the 9th NOWPAP POMRAC FPM. NOWPAP Coordinator as well as representatives of CEARAC, DINRAC and MERRAC also participated in the meeting.

Agenda Item 1: Opening of the Meeting

13. The 9th NOWPAP POMRAC Focal Points Meeting was opened at 9:30 on Tuesday, 25 October 2011 in Khabarovsk, Russian Federation by Dr. Anatoly KACHUR, Director of POMRAC. He greeted all participants of the Meeting and wished them successful work.

14. Dr. Alexey MAKHINOV, Deputy Director of Institute of Water and Ecological Problems (IWEP) also welcomed all participants and thanked them for coming to the Meeting in the city of Khabarovsk. He made a brief introduction of the unique biodiversity of the Amur River basin, variety of its landscapes and current environmental situation in the area, primarily emphasizing global environmental changes in the wake of the increased human impact.

15. Dr. Alexander TKALIN, Coordinator of NOWPAP, also expressed his gratitude to all participants and wished this meeting to be successful.

Agenda Item 2: Organization of the Meeting

Agenda Item 2.1: Election of the officers

16. The meeting was invited to elect the Chairperson and the Rapporteur for the 9th NOWPAP POMRAC FPM. As it had been decided during the previous POMRAC Focal Points Meetings, the duty of the chairperson for FPM would be performed on a rotational basis. Accordingly, the meeting elected Dr. Vladimir SHULKIN of the Russian Federation as the Chairperson and Dr. Hiroshi KOSHIKAWA of Japan as the Rapporteur.

Agenda Item 2.2: Organization of work

17. The rules of procedure of this Meeting were the same as of the UNEP Governing Council with necessary adjustments: the meeting was held in English and all decisions were made by consensus.

Agenda Item 3: Adoption of the Agenda

18. The Chairperson gave floor to Dr. Kachur who presented to the Meeting the List of Documents, Provisional Agenda and Annotated Provisional Agenda for the 9th POMRAC FPM.

19. Dr. Tkalin pointed out that the List of Documents does not contain Annex IV and National Reports on Case Studies of Atmospheric Deposition of Contaminants were not mentioned in the List as well.

20. Dr. Kachur clarified that the National Reports are the part of working document UNEP/NOWPAP/POMRAC/FPM 9/6 (Regional Overview “Case studies of Atmospheric Deposition of Contaminants with Focus on the Anthropogenic and Natural Changes in the selected areas of the NOWPAP region”).

21. The Secretariat agreed to update the list of documents and the Agenda was adopted.

Agenda Item 4: Overview of the progress made in the intersessional period after the 8th NOWPAP POMRAC Focal Points Meeting

Agenda Item 4.1: Report of NOWPAP RCU on the implementation of the Northwest Pacific Action Plan since the 8th NOWPAP POMRAC FPM

22. Upon invitation from the Chairperson Dr. Tkalin reported on the implementation of the NOWPAP since the 8th POMRAC FPM. In his presentation he briefly described the activities of three other RACs, building partnerships, raising public awareness, issues related to RAP MALI and marine biodiversity. He attracted attention to the statement made by the 15th IGM that each RAC should widen the scope of its activities and look for the external sources of funding as the NOWPAP trust fund is limited.

Agenda Item 4.2: Report on implementation and the budget expenditure of NOWPAP POMRAC in 2010/2011

23. Director of POMRAC reported on the implementation of POMRAC activities in 2010/2011. He briefed on POMRAC activities carried out during the biennium and presented the revised budget of POMRAC.

24. Dr. Koshikawa asked POMRAC Secretariat when the National Report of Republic of Korea on ICARM will be prepared and what is the situation with Regional Overview on Case Studies of Atmospheric Deposition of Contaminants with Focus on the Anthropogenic and Natural Changes in the selected areas of the NOWPAP region.

25. Dr. Kachur answered that Korean Expert will present the National Report by the end of October. He clarified also that draft of the Regional Overview on Case Studies of Atmospheric Deposition of Contaminants is being prepared.

26. The Chairperson suggested that the AD Regional Overview issue should be addressed after more detailed presentation on each activity. The meeting agreed upon this.

Agenda Item 5: Report on the major POMRAC activities in 2010/2011

Agenda Item 5.1: Regional Overview “Case studies of Atmospheric Deposition of Contaminants

with Focus on the Anthropogenic and Natural Changes in the selected areas of the NOWPAP region”

27. Director of POMRAC reported on this activity and expressed the apologies of the Secretariat for delay with preparation of the Regional Overview due to postponed finalization of previous Regional Overview on Atmospheric Deposition Models (planned to be published in 2009) that was only finished in 2011. Accordingly, draft of the current Overview will be prepared by the end of November 2011.

28. Dr. Tkalin reminded that RACs should act in liaison with RCU to avoid such situations when the communication with experts is ineffective.

29. Mr. Norihiko TANAKA, Director of CEARAC, expressed his concern with possible delay to finalize and publish the Regional Overview in 2011.

30. Dr. Kachur explained that the RO will be tentatively finalized in February 2012, but the funds for the publication will be disbursed in December 2011.

31. Dr. Tkalin conveyed his discontent on this fact, stressing that such delays are negative for POMRAC work. He also suggested that POMRAC should enhance interest to its projects among possible stakeholders by presenting its reports at international meetings, for example presenting Regional Overview on RDI at the GPA IGR-3 in Manila (January 2012).

Agenda Item 5.2: Regional Overview “River and direct inputs of contaminants in the NOWPAP region with special case studies on anthropogenic and natural changes”

32. Dr. Shulkin, who prepared this Regional Overview, made the presentation and mentioned that Regional Overview will be published in December 2011.

33. Dr. Tetsuya KUSUDA said that in Japan it is only possible to combine data from flow rate measurements with concentration measurements made by different agencies. Also he stressed that different COD analysis methods are applied in Japan and China.

34. Dr. Shulkin responded that such situation is typical for all NOWPAP countries.

Agenda Item 5.3: Review of current and future ICARM activities within the NOWPAP framework.

35. Dr. Michael D. PIDO, International Expert of POMRAC, made his presentation reviewing current ICARM activities in the NOWPAP region. He expressed his ideas and vision of ICARM evolution within NOWPAP framework. He reminded Korea and Russia to submit their National Reports for the Regional Overview on Applications of Ecosystem Valuation, Marine Spatial Planning and EBM in the NOWPAP member states as soon as possible. After that he stressed the importance of economic valuation of ecosystems or natural resources. This should describe both the use value and non-use value. He also suggested to launch ICARM Regional Overview (to be prepared by POMRAC) at the 2012 East Asian Seas Congress in the Republic of Korea.

36. Dr. Koshikawa expressed his concern regarding the necessity to elaborate special economic model and availability of such kind of data in the region, at least in Japan.

37. Dr. Tkalin appreciated the presentation by Dr. Pido and said that the need of economic valuation is not a barrier for the activity and might be used in further reports of ICARM WG even in case if such information is not available at the moment.

38. Mr. Tanaka mentioned that at the 9th CEARAC FPM in September 2011 the workplan and budget for the next biennium were discussed. Among other issues, the issue of assessment of existing marine

protected areas (MPAs) was raised. If POMRAC would address valuation of MPAs, it would be desirable to have active communication with CEARAC.

Agenda Item 5.4: NOWPAP Regional Action Plan on Marine Litter (RAP MALI)

39. POMRAC secretariat has presented the activities on RAP MALI that were carried out during 2010/2011 biennium. Also new plans for the next biennium were introduced.

Agenda Item 5.5: Update of NOWPAP POMRAC reference databases

40. POMRAC secretariat informed the meeting on the progress of updating the databases.

41. Dr. Tkalin asked Ms. Tong AN from DINRAC if there is some statistics on visitors to the Reference Database web-page and if there is, the information should be presented at the next POMRAC FPM.

Agenda Item 6: Presentation of the draft workplan and budget of POMRAC activities for the 2012/2013 biennium.

Agenda Item 6.1: Proposal for the preparation of the second “State of Marine Environment Report for the NOWPAP region”

42. Dr. Shulkin presented the document to the meeting.

43. Dr. Koshikawa said that the document should be shared with the Japanese Focal Point of POMRAC, as he is absent at the Meeting. That is why he requested some time for adoption of the document from Japan.

44. Dr. Tkalin said that POMRAC had not held any discussion on this activity with other RACs before and that such discussion should be held after the 16th NOWPAP IGM. 16th NOWPAP IGM will decide if POMRAC prepares the second State of Marine Environment Report (SOMER-2). Then it will be discussed which chapters will be included and what will be the responsibilities of each RAC and experts from NOWPAP and outside of NOWPAP.

45. Dr. Hyo-Bang MOON asked what will be the involvement of each NOWPAP member state in the preparation of the SOMER-2.

46. Dr. Tkalin clarified that POMRAC only suggested SOMER-2 being consistent with UN Regular Process, but the meeting should not prescribe the involvement of NOWPAP member states in the Regular Process.

47. Mr. Tanaka suggested that besides using the services of experts from working groups of POMRAC and from other RACs, preparation of SOMER-2 will require involvement of many specialists from other fields of research.

48. Dr. Kachur agreed upon remark by Mr. Tanaka and confirmed that preparation of SOMER-2 will be carried out by relevant experts not only from within NOWPAP, but also from PEMSEA, PICES and other international projects and organizations.

49. Dr. Pido suggested possible alternative structure of SOMER-2. Meeting participants agreed however that detailed structure of SOMER-2 will be discussed after the decisions made at the 16th NOWPAP IGM.

50. After some revision, the document was adopted in principle. After circulation via e-mail among Focal Points, they will provide their comments within 3-4 weeks.

Agenda Item 6.2: Proposal on the POMRAC activity “Regional Overview on PTS and POPs issues of ecological concerns in the NOWPAP region”

51. Dr. Shulkin presented the proposal to participants of the meeting. The meeting was invited to hold a general discussion.

52. Dr. Jianjun LI and Ms. Mingcui WANG, POMRAC National Experts from China, said that POPs and PTS is a new field for monitoring and research in China. They need to check if there are any data and research results for the NOWPAP region. They supported the proposal but mentioned that it might be difficult to expect many results at the beginning.

53. Mr. Won-Keun CHANG, POMRAC Focal Point of the Republic of Korea, expressed his concern about possibility of obtaining data on POPs and PTS from Korean Government Agencies.

54. After some revisions, the document was adopted in principle. After circulation via e-mail among Focal Points, they will provide their comments within 3-4 weeks.

Agenda Item 6.3: Current and future ICARM activities within the NOWPAP framework

55. Dr. Kachur presented the document to the meeting. In his presentation he made suggestions on further development of ICARM in the NOWPAP region.

56. Meeting participants requested POMRAC secretariat to revise this proposal taking into account their comments and circulate via e-mail among Focal Points. They will provide their comments within 3-4 weeks.

Agenda Item 7: Draft workplan and budget of POMRAC for the 2012/2013 biennium and planned activities of the WG1, WG 2 and ICARM WG

57. Dr. Kachur reported on the draft workplan and budget for POMRAC activities in the next biennium, presenting modified budget for further consideration by the 16th NOWPAP IGM.

58. Dr. Li mentioned that the workshop on POPs and PTS should be separately listed in the budget table, not only shown in the remarks. He also mentioned that budget table for ICARM should be modified.

59. The meeting has adopted the document in principle, pending comments from Focal Points by correspondence within 3-4 weeks.

Agenda Item 8: Arrangements for the 10th NOWPAP POMRAC FPM

60. The meeting was decided to be held in Kanazawa, Japan, in April-May 2012. Among other issues, the following issues will be discussed:

- Report on POMRAC activities in 2011/2012;
- POMRAC workplan and budget for 2012/2013 following the decisions of the 16th NOWPAP IGM.

Agenda Item 9. Other matters

61. No other matters were raised.

Agenda Item 10. Adoption of the report of the meeting

62. A draft report of the meeting was prepared by the Rapporteur and the Secretariat for consideration and adoption. The report was adopted by the meeting.

Agenda Item 11. Closure of the meeting

63. The meeting was closed by the Chairperson at 17:00 on 26th October 2011.

Annex content

Annex I List of Participants of the 9th NOWPAP POMRAC Focal Points Meeting

Annex II Provisional Agenda

Annex III Proposal for the preparation of the second “State of Marine Environmental Report for the NOWPAP region”

Annex IV Proposal on the POMRAC activity “Regional overview of PTS and POPs issues of ecological concern in the NOWPAP region”

Annex V Proposals for the ICARM activities in 2012/2013

Annex VI Workplan and budget for POMRAC in 2012/2013

ANNEX I

List of Participants of the 9th NOWPAP POMRAC Focal Points Meeting

List of Participants of the 9th NOWPAP POMRAC Focal Points Meeting

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ANNEX II
Provisional Agenda

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 - 2.1. Election of the officers
 - 2.2. Organization of work
3. Adoption of the Agenda
4. Overview of the progress made in the intersessional period after the 8th NOWPAP POMRAC Focal Points Meeting
 - 4.1. Report of NOWPAP RCU on the implementation of the Northwest Pacific Action Plan since the 8th NOWPAP POMRAC FPM
 - 4.2. Report on the implementation and the budget expenditure of NOWPAP POMRAC in 2010/2011
5. Report on the major POMRAC activities in 2010/2011.
 - 5.1 Regional Overview “Case studies of atmospheric deposition of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region”
 - 5.2 Regional Overview “River and direct inputs of contaminants in the NOWPAP region with special case studies on anthropogenic and natural changes”
 - 5.3 Review of current and future ICARM activities within the NOWPAP framework.
 - 5.4 NOWPAP Regional Action Plan on Marine Litter (RAP MALI)
 - 5.5 Update of NOWPAP POMRAC reference databases
6. Presentation of the draft workplan and the budget of POMRAC activities for the 2012-2013 biennium
 - 6.1 Proposal for the preparation of the second “State of Marine Environment Report for the NOWPAP region”
 - 6.2 Proposal on the POMRAC activity “Regional Overview on PTS and POPs issues of ecological concerns in the NOWPAP region”
 - 6.3 Current and future ICARM activities within the NOWPAP framework
7. Draft workplan and budget of POMRAC for the 2012/2013 biennium and planned activities of the WG1, WG 2 and ICARM WG
8. Arrangements for the 10th NOWPAP POMRAC FPM
9. Other matters
10. Adoption of the report of the meeting
11. Closure of the meeting

ANNEX III

Proposal for the preparation of the second “State of Marine Environmental Report for the NOWPAP region”

1. Background

According to the decision of the 14th NOWPAP Intergovernmental Meeting, one of the NOWPAP POMRAC activities for 2010-2011 biennium was the preparation of the draft of second “State of Marine Environment Report for the NOWPAP region” (SOMER-2).

First “State of Marine Environment Report for the NOWPAP region” (SOMER) has been compiled by POMRAC in close cooperation with other RACs in 2006 and published in 2007. The main goal of that report was to give a holistic description, analysis and overview of marine environmental problems of the NOWPAP sea area.

The specific objectives of the State of the Marine Environment Report (2007) included:

- Assessment of the current state of the marine environment in the NOWPAP area, with attention to recent changes in the environmental conditions and the impacts of human activities on the marine environment and coastal areas;
- Identifying current regional concerns and emerging issues which present major challenges;
- Presentation of actions and measures (including those suggested by different relevant programs/projects) to help decision makers to address these challenges at the national and regional level.

First SOMER for the NOWPAP region was based on the results obtained through the NOWPAP RACs activities before 2005. The achievements of other regional and international programs/projects, and information from the scientific literature were broadly used as well.

During the last 6 years since 2005, there was significant progress in the activities of all NOWPAP RACs. CEARAC has begun the joint WG3 and WG4 activity on the assessment of the eutrophication status in the selected coastal sea areas. MERRAC continues their fruitful activity on the oil spills issues and also expands their efforts to deal with other ecological problems of the sea: marine litter, hazardous and noxious substances, ballast waters. POMRAC is carrying out the activity on the ICARM applications in our region. Other activities of POMRAC will help to find relationships between the changes of river and direct inputs of contaminants with ecological situation in the adjacent sea areas and socio-economical factors on the watersheds, and to assess in detail the atmospheric input of different substances. The main goals of DINRAC continue to be an information support and integration of other RACs results, but DINRAC is also finalizing very important work on marine invasive species in the NOWPAP region.

In fact, the activities of all NOWPAP RACs are already implemented in the more holistic way. Therefore, the regular compilation or synthesis of environmental problems, status and

trends connected with natural and socio-economical conditions seems to be a logical stage in the NOWPAP activities.

The regularity of the assessment procedure is in line with the UN approach (“the UN Regular Process for Global Reporting and Assessment”). Thus, POMRAC Secretariat believes that preparation of second “State of Marine Environment Report for the NOWPAP Region” (SOMER-2) will be timely and appropriate activity.

2.Objective

The synthesis of environmental problems, status and trends related to existing and changing natural and socio-economical conditions in the NOWPAP region.

3 Main features

3.1 The consistency with the “UN Regular Process”

The main peculiarity of the proposed SOMER-2 compare with the previous SOMER (2007) should be intrinsic consistency with the “UN Regular Process”. For the time being the structure and content of the “Regular process” continue to be under consideration and discussion (http://www.un.org/Depts/los/global_reporting.htm), but the main features are already clear and available. The approach based on the “ecosystem services” concept is one important feature. The inclusion of the regulatory frameworks and capacity building aspects, along with the environmental issues, is another feature. The presented draft structure and contents of SOMER-2 is prepared taking into account these peculiarities of “UN Regular process”. Due to ongoing evolution of the process, the presented structure of SOMER-2 (Annex) should be considered as one of the possible options only. While developing the structure, data availability and maturity of the assessment methods should be carefully checked as well as consistency with the “UN Regular process”.

3.2 The integrative nature

The most important feature of SOMER-2 activity is its integrative nature. It means SOMER-2 could be prepared only with close collaboration of all NOWPAP RACs as it has been done during the implementation of activity on SOMER-1.

4. Main tasks

Each NOWPAP member state as well as all RACs will be required to cooperate with POMRAC in this activity, because many aspects and results which should be included in SOMER-2 will be obtained during the ongoing activities of NOWPAP RACs.

4.1. Preparation of the different chapters of the SOMER-2

According to schedule (see table below), it is expected that different chapters of SOMER-2 will require the input of the different experts, NOWPAP RACs, and maybe other organizations. The list of the experts involved will be determined after the discussion, finalization and approval of the structure of SOMER-2. Upon the preparation of the separate chapters, the review and harmonization of them will be carried out.

4.2. Compilation and preparation of SOMER-2

After finalization of the separate chapters, they will be compiled according to the approved structure. The prepared SOMER-2 will be reviewed by the FPs, RACs and RCU.

5. Expected Outcomes

After preparation, discussion and approval by the FPs and RACs, the SOMER-2 will be published and become available for the general public, research institutions, universities, government organizations and officials. Even if the future SOMER-2 will not coincide with the future “UN Regular Process” assessment in detail, POMRAC Secretariat believes that the SOMER-2 will be necessary step forward.

5. Schedule

Time		Actions	Main Body
2012	Q1	Discussion of the involvement of other RACs in the preparation of SOMER-2 through correspondence	POMRAC
	Q2 10 th POMRAC FPM	Approval of workplan and budget by POMRAC FPM	POMRAC and FPs
	Q2 to Q3	Preparation of the different chapters of SOMER-2	Experts, RACs and relevant

			organizations
	Q4	Review and improvement of the different chapters of SOMER-2	POMRAC, FPs and experts/RACs
2013	Q1 to Q2	Preparation and Compilation of SOMER-2	POMRAC consult
	Q3	Review of Draft SOMER-2	POMRAC, FPs and RACs
	Q3, 11 th POMRAC FPM	Presentation of Draft SOMER-2	POMRAC
	Q4	Publication of SOMER-2	POMRAC

6. Budget

Contract	Timing	Output	To be completed	Counterpart	Budget
Preparation of the different chapters of SOMER-2	2012 Q2	Different chapters of SOMER-2	2012 Q4	CEARAC, DINRAC, MERRAC	6,000
		Different chapters of SOMER-2		Experts of external organizations	14,000
Preparation and compilation of SOMER-2	2013 Q1	Draft SOMER-2	2013 Q2	POMRAC and consult	5,500
Publication of SOMER-2	2013 Q4	SOMER-2	2013 Q	POMRAC	4,000
Total					29,500

Structure and contents of SOMER-2 suggested in the Annex could be one of the possible options.

Draft Structure of the SOMER-2

Executive Summary

1. Introduction (including objectives, scope, information sources and procedures)
2. Geographical features of the NOWPAP Marine and Coastal Areas (including characteristics and features of population, land use, industrial and agricultural activities)
3. Human impact (including negative consequences of transport, oil and gas production, agricultural and industrial wastewaters, etc.)
4. Assessment of the supporting and regulating ecosystem services
 - 4.1. The main hydrological and hydrochemical features of the region and its parts
 - 4.2. Sea/Atmosphere and Sea/Sediment interactions
 - 4.3. Primary production
5. Assessment of the provisioning and cultural ecosystem services
 - 5.1. NOWPAP marine and coastal areas as sources of food (including fisheries, aquaculture, etc.)
 - 5.2. Other provisioning ecosystem services (mineral resources, energy, transport, etc.)
 - 5.3. Cultural ecosystem services (recreation, cultural heritage)
6. Assessment of ecological problems connected with biodiversity issues (including HAB, MPAs, invasive species, endangered species, overfishing etc.).
7. Overall assessment and valuation of marine and coastal areas of NOWPAP Region (including marine litter, persistent toxic substances, etc.)
8. Conclusions (including recommendation on policy and legislation, data exchange and management, ICARM, etc.)

References

ANNEX IV

**Proposal on the POMRAC activity
“Regional overview of PTS and POPs issues of ecological concern in the
NOWPAP region”**

1. Background

The ecological problems connected with the generation, distribution and harmful effects of persistent organic pollutants (POPs) and persistent toxic substances (PTSs) continue to be in the focus of the worldwide attention. NOWPAP region is not an exception. Dense population and intensive economical development in some of the countries, broad usage of some POPs and strict ban for others provide very contrast distribution of POPs in the region, and the possibility of the transboundary transport of POPs makes these problems important for all countries. The GEF Project on POPs issues “Enabling activities for the Stockholm Convention on Persistent Organic Pollutants (POPs): Development of a National Implementation Plan for The Russian Federation” has been implemented in Russia in 2009-2011, but major attention has been concentrated on the European and Siberian parts of Russia. At the same time, comprehensive overview of the POPs status and trends is not prepared for the NOWPAP region. These were the reasons of the initiation some years ago of the NOWPAP GEF project “Addressing Land-Based Activities that Affect the Marine and Coastal Environment of the Northwest Pacific Region.” This regional project has been developed, but unfortunately has not been implemented.

Since that time, the list of the POPs/PTS of ecological concern became longer, as scientific research and publications on these problems were continued. This is the reason of POMRAC proposal to compile the “Regional overview of PTS and POPs issues of ecological concern in the NOWPAP region” as a POMRAC activity for the 2012-2013 biennium. The presence in our region of highly skilled specialists and experts on the POPs/PTS issues is also taken into consideration.

2. Objective and tasks

The main objectives of this activity are:

- To provide the updated assessment on the regional ecological issues related to POPs covered by the Stockholm Convention (PCDDs, PCDFs, PCBs, PAHs, DDTs, HCHs);
- To provide an assessment of the ecological issues related to the regionally significant PTS not covered by the Stockholm Convention;
- To assess the transboundary aspects of ecological issues related to POPs/PTS within NOWPAP region.

3. Expected outcomes

The implementation of the abovementioned tasks will create a scientifically sound basis for the future political and managerial agreement for regional collaboration to address ecological issues related to POPs/PTSs. Besides, the results of this activity could help to initiate the application of GEF proposals.

4. Potential partners

In order to best implement this activity the close cooperation with many scientific organizations is needed because for analysis of many PTS the state of art equipment and methods are used. The organizations in the NOWPAP states who are in charge to the routine monitoring of PTS will be also involved. Kanazawa University is proposed to be a key partner during the implementation of this activity.

If NOWPAP IGM will approve this POMRAC activity, the detailed contents and structure of Regional Overview could be discussed during the Workshop could be organized jointly with Kanazawa University back-to-back with the next POMRAC FPM (in spring 2012).

5. Schedule

Time		Actions	Main Body
2012	Q2	PTS WS co-organized with Kanazawa University	POMRAC, Russian Academy of Science
	Q2 10 th POMRAC FPM	Approval of workplan and budget by POMRAC FPM	POMRAC and FPs
	Q2 to Q3	Preparation of the national inputs to the Overview	National experts and RACs
	Q4	Review of the national inputs	POMRAC, FPs and experts/RACs
2013	Q1 to Q2	Preparation of Regional Overview	POMRAC consultant
	Q3	Review of Regional Overview	POMRAC, FPs and RACs
	Q3, 11 th POMRAC FPM	Presentation of Draft Regional Overview	POMRAC
	Q4	Publication of Regional Overview	POMRAC

6. Budget

Activity	Timing	Output	To be completed	Counterpart	Budget
PTS WS	2012 Q2	Detailed workplan	2012Q2	Experts	11,000
Preparation of the national inputs to the Regional Overview	2012 Q2	National input to the Regional Overview	2012 Q4	Expert and/or organization in China	3,000*
		National input to the Regional Overview		Expert or organization in Japan	3,000*
		National input to the Regional Overview		Expert or organization in Korea	3,000*
		National input to the Regional Overview		Expert or organization in Russia	3,000*
Preparation and Compilation of Regional Overview	2013 Q1	Regional Overview	2013 Q2	POMRAC and international consultant	4,000
Publication of Regional Overview	2013 Q4	Regional Overview	2013 Q	POMRAC	2,000
Total					29,000

* 1,500 USD for experts from WG1/WG2 from each state;

ANNEX V

Proposals for the ICARM activities in 2012/2013

1. Background

According to the NOWPAP Action Plan, one of the most important accomplishments of the Plan should be the development of wise management strategy for the Northwest Pacific coastal and marine environment. The strategy for wise management of the Northwest Pacific coastal and marine environment should consist of 5 main elements:

- monitoring and assessment of the environmental condition
- creation of an efficient and effective information base
- **integrated coastal area planning**
- **integrated coastal area management**
- establishment of a collaborative and cooperative framework.

More specifically, the third and fourth Objectives in the Action Plan for the Northwest Pacific region are as follows:

(3) To develop and adopt a harmonious approach towards coastal and marine environmental planning on an integrated basis and in a pre-emptive, predictive and precautionary manner;

(4) To develop and adopt a harmonious approach towards the integrated management of the coastal and marine environment and its resources, in a manner which combines protection, restoration, conservation and sustainable use.

POMRAC has started activities related to integrated coastal and river basin management (ICARM) in 2007, by establishing ICARM Working Group. Ideally, the outcomes of thematic and integrated assessments (see below) should be taken into account while implementing ICARM activities, which might include (but not be limited to) ecosystem valuation, marine spatial planning, biodiversity conservation and climate change adaptation (through functional zoning).

These activities should be implemented in close collaboration with all NOWPAP RACs and with the UNEP/GPA and under close coordination of RCU.

The 1st Meeting of ICARM WG (10-11 July 2007, Toyama, Japan) decided that the main objectives of the Working Group for Integrated Coastal Area and River Basin Management will be as follows:

- To collect and compile existing ICARM methodologies being used by NOWPAP member states;
- To prioritize issues related to ICARM activities in NOWPAP member states (including transboundary ones).
- To assist member states in applying efficient ICARM methodologies, including coastal area and river basin planning (landscape, urban and marine spatial) and risk management, by disseminating tools and good practices, organizing training courses, etc.

The 5th POMRAC Focal Points Meeting (FPM) held in Vladivostok, Russia, on 8-9 October 2007 has adopted preparation and publication of the National Reports and Regional Overview on ICARM as one of the main activities of POMRAC in 2008/2009 biennium. These documents were published in 2010.

National and Regional overviews showed that ICARM planning and implementation in the NOWPAP Region has some initial success stories and significant contributions to integrated management. Existing situation in the NOWPAP countries, particularly within the NOWPAP region, was thoroughly documented. In the National reports and Regional Overview, existing ICARM issues were identified and systematically analyzed. Opportunities or positive conditions for development were likewise diagnosed.

Key management issues in the region are related to pollution, habitat/ecosystem degradation and non-optimal use of resources. Cross cutting issues include natural disasters, sea level rise and climate change. Some problems were noted only in specific countries, such as localized depletion of fishery resources. Other problems, however, are regional in scope, such as those that are related to oil spills. These problems/issues may be traced to institutional limitations and/or inadequacies in integrated management.

The ICARM-related issues were duly prioritized. Appropriate program and/or project interventions have been undertaken (or are being undertaken) to address the above key management problems/issues. These led to the development and/or adoption of suitable land-use management schemes (or functional zoning) in coastal areas and river basins. Somehow, these program and/or project interventions were able to reduce pollution, conserve the remaining coastal habitats/ecosystems, and promote more optimal/judicious utilization of resources.

Although applying ICARM principles has significantly improved both the human and natural environment in the NOWPAP region, much still needs to be done. Hence, in the

Regional ICARM Overview (2010), some recommendations have been suggested to better address national priorities, as well as international (transboundary) issues.

2. Objective.

To develop the “Regional guidelines for integrated coastal planning and management” which will assist member states in applying efficient ICARM methodologies, including coastal area and river basin planning (landscape, urban and marine spatial).

3. Main tasks

3.1. Finalization of the Regional Overview “Applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states”

One of the objectives of the abovementioned Overview is to collect and compile existing ICARM methodologies being used by NOWPAP member states, which in turn will be a necessary basis for the preparation and compilation of the “Regional guidelines for integrated coastal planning/management”.

3.2. Preparation of “Regional guidelines for integrated coastal planning and management”.

These guidelines should take into account the positive and negative experience of the countries with more advanced ICARM practices (Europe, USA, Canada). At the same time the specific features of the different NOWPAP countries should be taken into consideration.

4. Expected Outcomes

After preparation, discussion and approval by the FPs and other NOWPAP RACs, the “Regional guidelines for integrated coastal planning and management” will be published and become available for the public, government organizations and experts. The “Regional guidelines for integrated coastal planning and management” will familiarize the NOWPAP member states with the best practices in the field of ICARM, and will help to improve and to harmonize the national methodologies of ICARM applications.

5. Schedule

Time	Actions	Main Body
2012	Q1 to Q2	Finalization of the Regional Overview
		POMRAC with

		“Applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states”	international expert
	Q3	Publication of National Reports and Regional Overview	POMRAC
	Q4	Preparation and discussion of the structure and contents of the national inputs to the “Regional guidelines for integrated coastal planning and management”	POMRAC, national and international experts, RACs
2013	Q1 to Q2	Preparation of the national outputs to the “Regional guidelines for integrated coastal planning and management”	POMRAC, national experts
	Q3	RG WS organized back-to-back with the 11 th POMRAC FPM	POMRAC, FPs and RACs
	Q3-Q4	Preparation and compilation of the “Regional guidelines for integrated coastal planning / management”	POMRAC through international experts

6. Budget

Activity	Timing	Output	To be completed	Counterpart	Budget
Finalization of the Regional Overview “Applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP	2012 Q1	Regional Overview “Applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member	2012Q2	POMRAC with international expert, FPs and RACs	2,500

member states”		states”			
Publication of RO	2012 Q3	RO	2012 Q3	POMRAC	2,000
Preparation of the national inputs to the “Regional guidelines for integrated coastal planning and management”	2012 Q4	National outputs to the “Regional guidelines for integrated coastal planning and management”	2013 Q2	POMRAC and national experts	4,000
Regional WS	2013 Q3	Structure of the “Regional Guidelines”	2013 Q3	Experts	6,000
Preparation and compilation of the “Regional guidelines”	2013 Q3	“Regional guidelines”	2013 Q4	POMRAC and international expert	4,000
Total					18,500

ANNEX VI
Workplan and budget for POMRAC in 2012/2013

Activity	Planned Budget US\$			Tentative Time
	2012	2013	total	
10 th and 11 th POMRAC Focal Points meetings back to back with two WS	25,000	25,000	50,000	FPM10 - Spring 2012 FPM11 -October 2013
Joint activity of WG1 and WG2: Regional overview of persistent toxic substances (PTS) in the coastal environment of the NOWPAP region with Regional WS “PTSs and POPs issues of ecological concern in the NOWPAP region” (back to back with 10 th POMRAC FPM)	23,000	6,500	29,500	WS - Spring 2012
Prepare the second “State of Marine Environmental Report” for the NOWPAP region (with more focus on socio-economic issues, climate change and issues of biodiversity conservation)	25,000	4,000	29,000	
ICARM WG: Finalization of Regional Overview “Applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states”	4,500	0	4,500	
ICARM WG: Preparation of “Regional guidelines for integrated coastal planning/management” (with regional WS combined with 11 th POMRAC FPM) with Regional WS on Regional guidelines for integrated coastal planning/management for NOWPAP region (combined with 11 POMRAC FPM)	0	14,000	14,000	WS -October 2013
Activities of RAP MALI: Increasing public awareness about marine litter problem by developing and distributing promotional materials	TBD	TBD	TBD	
Website update	500	500	1,000	
Cooperation, coordination of POMRAC activities and communication	4,000	5,000	9,000	
Total	82,000	55,000	137,000	