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

The Eighth NOWPAP POMRAC Focal Points Meeting

Busan, Republic of Korea
26-27 May 2010

**REPORT OF THE 8TH NOWPAP POMRAC FOCAL
POINTS MEETING**

REPORT OF THE 8TH NOWPAP POMRAC FOCAL POINTS MEETING

Background leading to the meeting

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) to carry out regional activities.

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 as presented by the secretariat in document UNEP/NOWPAP IG.7/8". 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 held in Toyama, Japan, 24-26 November 2005 has approved plan of future actions as NOWPAP EVOLUTION: New Directions for the NOWPAP RACs and RCU.

5. Regarding POMRAC, that IGM confirmed the following: «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».

6. 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 2006/7, namely:

- to create the Working Group for Integrated Coastal and River Basin Management (ICRBM WG),
- to organize the 1st Meeting of ICRBM WG (ICARM WG),
- to prepare National Reports and Regional Overview on ICRBM (ICARM).

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 Integrated Coastal and River Basin Management Activities of POMRAC in 2007/8.

8. The Sixth NOWPAP POMRAC Focal Points Meeting 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 Structures and Contents of the Regional Overviews for WG1, WG2 and ICARM WG and the procedure of their 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 Focal Points Meeting 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 (Working Group on Atmospheric Deposition of Contaminants into the Marine and Coastal Environment), WG2 (Working Group on River and Direct Input of Contaminants into the Marine and Coastal Environment) and ICARM WG (Working Group on Integrated Coastal Area and River Basin Management).

10. The 8th NOWPAP POMRAC Focal Points Meeting 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 activity of WG1 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"; reviewed, discussed and adopted structure and contents of the new activity for WG2 for 2010-2011 "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"; discussed activities of the Working Group on Integrated Coastal and River Basin management (ICARM WG).

11. Focal Points and experts of the NOWPAP Members, namely, China, Japan, Republic of Korea and Russia participated in the 8th NOWPAP POMRAC Focal Points Meeting. Representatives of NOWPAP RCU as well as representatives of DINRAC, CEARAC and MERRAC also participated in the meeting.

Day 1 (26 May 2010, Wednesday)

Agenda Item 1. Opening of the Meeting

12. The 8th NOWPAP POMRAC Focal Points Meeting was open at 9:00 am at the Haeundae Centum Hotel in Busan, Republic of Korea, 26 May 2010 by the Director of POMRAC, Dr. Anatoly KACHUR. NOWPAP Coordinator, Dr. Alexander TKALIN, followed with his welcoming remarks. POMRAC Focal Point of Korea Dr. Hee-Gu CHOI also joined them with her opening remarks.

Agenda Item 2. Organization of the Meeting

13. Dr. Kachur invited the meeting to elect the Chairperson and the Rapporteur for the 8th NOWPAP POMRAC Focal Points Meeting. As it had been decided during the previous POMRAC Focal Points Meetings the duty of the chairpersons for FPM would be performed on a rotational basis. That is why a representative of Korea, Dr. Choi, was elected the Chairperson of the Meeting, and a representative of Russia, Dr. Vladimir SHULKIN, was elected as the Rapporteur.

14. The secretariat introduced the timetable of the meeting.

15. English was the working language of the meeting. The secretariat presented the provisional list of the documents.

Agenda Item 3. Adoption of the Agenda

16. The Provisional Agenda (Annex III) was introduced by the Director of POMRAC together with the Annotated Provisional Agenda. After a discussion, the Meeting, according to the proposal made by the Chairperson, agreed to change the numeration of Agenda Items, i.e. initial items 6-10 merged into item 5 "Review and discussion of major POMRAC activities in 2010-2011 in accordance with the decisions of the 14th NOWPAP Intergovernmental Meeting (IGM)".

Agenda Item 4. Overview of the progress made during the intersessional period after the Seventh NOWPAP POMRAC Focal Points Meeting (FPM)

17. NOWPAP Coordinator, Dr. Tkalin, reported to the meeting on the progress of the entire NOWPAP activities during the intersessional period including the 14th NOWPAP Intergovernmental Meeting.

18. Director of POMRAC presented his report on the implementation of POMRAC activities in 2009/2010. The meeting held a general discussion after the presentation.

Agenda Item 5. Review and discussion of major POMRAC activities in 2010-2011 in accordance with the decisions of the 14th NOWPAP Intergovernmental Meeting (IGM)

19. Dr. Kachur made his presentation on major POMRAC Activities in 2010-2011 biennium after the decisions of the 14th IGM. The meeting was invited to discuss major POMRAC activities in 2010-2011.

20. Dr. Tkalin remarked that the planned NOWPAP POMRAC budget and activities for 2010-2011 biennium with alterations made after the 14th IGM has been distributed between Focal Points of POMRAC by e-mail and generally approved.

21. Mr. Hiroshi TSUJIHARA, POMRAC Focal Point of Japan, suggested that POMRAC should try to improve cooperation with its Focal Points for the most efficient implementation of its activities in conditions of the reduced budget in 2010-2011 biennium.

Agenda Item 5.1. Review, discussion and adoption of structure and contents of the new Regional Overview “Atmospheric deposition of contaminants in the NOWPAP region with special case studies on anthropogenic and natural changes” (“Case studies of atmospheric deposition of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region”)

22. Instead of the International Expert Zifa WANG, Dr. Kachur presented the Proposal for the NOWPAP POMRAC activity 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” (Annex III). The meeting was invited to review, discuss and adopt structure and contents of the Regional overview.

23. Dr. Shulkin, POMRAC Focal Point of Russia, suggested that it could be difficult to collect enough data to cover this issue without model approach. Prior to the meeting it was decided that Prof. Zifa WANG, an International Expert of POMRAC would provide the application of the model approach including the adaptation of most relevant existing models for the regional and local scales. Besides, Dr. Shulkin offered to extend the deadline for preparation of the Draft Regional Overview to February-March 2011.

24. Dr. Jianjun LI, POMRAC Focal Point of China, agreed with the proposal of shifting the deadline of the activity to the February of 2011. He stated that the monitoring data for 20 years could be unavailable. China started the daily monitoring since 2000.

25. Dr. Won-Keun CHANG, Korean Expert of POMRAC, stated that it is possible to obtain necessary monitoring records since 1980-s after a governmental confirmation.

26. POMRAC Expert of Japan, Dr. Kazuhide MATSUDA, also stated that the monitoring data for 20 years could be unavailable. Defining changes in trajectories of air masses is also rather difficult task.

27. After a discussion it was decided that the time range for available AD monitoring data and the most appropriate study areas can be discussed and approved by e-mail correspondence between POMRAC Focal Points and Experts after the 8th POMRAC FPM. Moreover, the time range and geographical scope of the study areas could vary depending on data availability.

28. After discussion the Meeting adopted the document with amendments.

Agenda Item 5.2. Review, discussion and adoption of structure and contents of the new Regional Overview “River and direct inputs of contaminants in the NOWPAP region with special case studies on anthropogenic and natural

changes” (“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”)

29. Dr. Shulkin presented the document for general consideration. The meeting was invited to review, discuss and adopt structure and contents of the Regional overview (Annex IV). The document was adopted.

Agenda Item 5.3. Discussion of activities of the Working Group on Integrated Coastal and River Basin management (ICARM WG)

30. Instead of the Regional Consultant, Dr. Kachur presented the workplan for ICARM Working Group for the 2010-2011 biennium (Annex V). He suggested that the priority activity of ICARM WG for 2010-2011 is the preparation of Regional Overview on applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states.

31. After a discussion the Meeting decided that due to the limited time for preparation of the Regional Overview the volume of monitoring data and study areas can vary depending on availability of information. Final temporal data range and study areas will be agreed upon by e-mail correspondence.

Agenda Item 5.4. Review, discussion and adoption of structure and contents of the second NOWPAP “State of Marine Environment Report” (SOMER)

32. Dr. Shulkin made his presentation on the planned preparation of the Second NOWPAP State of the Marine Environment Report (Annex VI). The meeting considered and adopted the suggestion of POMRAC secretariat about initial stages in SOMER-2 preparation.

Agenda Item 5.5. Discussion of intersessional activities of POMRAC

33. Director of POMRAC reported on the progress in the implementation of RAP MALI. The Meeting considered and adopted the report.

34. Representative of POMRAC reported on the progress in updating of the databases. Ms. Tong AN, representative of DINRAC, has presented to the participants the statistics of visits paid to Reference Databases by internet users,

Day 2 (27 May 2010, Thursday)

Agenda Item 6. Review of POMRAC workplan and budget for 2010-2011 with consideration of the decisions of the 14th NOWPAP IGM

35. Director of POMRAC, Dr. KACHUR, introduced to the meeting the Workplan and Budget for POMRAC for the 2010/2011 biennium corrected in accordance with the decisions of the 14th NOWPAP IGM (Annex VII).

According to suggestion of Mr. Hiroshi TSUJIHARA, supported by Dr. Tkalin, POMRAC should concentrate its efforts on developing recommendations to policy makers within its mandate, including Marine Litter and ICARM.

After a discussion, the document was adopted.

Agenda Item 7. Date and venue of the Ninth NOWPAP POMRAC Focal Points Meeting

36. The meeting was invited to discuss the holding date of the Ninth NOWPAP POMRAC FPM. Upon suggestion of Dr. Kachur, the meeting will take place in Khabarovsk, Russia or in any other city of the NOWPAP region in September 2011.

Agenda Item 8. Other matters

37. The meeting was invited to raise any other issues relevant to POMRAC activities. No issues were raised.

Agenda Item 9. Adoption of the report of the meeting

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

Agenda Item 10. Closure of the 8th NOWPAP POMRAC FPM

39. The meeting was closed by the Chairperson at 14:00 on 27 May 2010.

Annexes

Annex content

Annex I. List of participants of the 8th NOWPAP POMRAC Focal Points Meeting

Annex II. Agenda

Annex III. Proposal for the NOWPAP POMRAC activity for 2010-2011 for WG1 “Case studies of Atmospheric deposition of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region”.

Annex IV. Proposal for the NOWPAP POMRAC activity for 2010-2011 for WG2 “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”

Annex V. Proposal for the NOWPAP POMRAC activity for 2010-2011 for ICARM WG “Regional overview on applications of marine spatial planning and ecosystem-based management in the NOWPAP member states”

Annex VI. About the preparation of the second “State of Marine Environmental Report for the NOWPAP region”

Annex VII. Workplan and Budget for POMRAC for 2010/11 Biennium

Annex I

List of participants of the 8th NOWPAP POMRAC Focal Points Meeting

Annex I

List of participants of the 8th NOWPAP POMRAC Focal Points Meeting

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Annex II

Agenda

Annex II

Agenda

Day 1 (26 May 2010, Wednesday)

1. Opening of the Meeting
2. Organization of the Meeting
 - 2.1. Election of the officers
 - 2.2. Organization of work
3. Adoption of the Agenda
4. Overview of the progress made during the intersessional period after the Seventh NOWPAP POMRAC Focal Points Meeting (FPM)
 - 4.1. Report of NOWPAP RCU representative on the implementation of the Northwest Pacific Action Plan since the Seventh NOWPAP POMRAC FPM
 - 4.2. Report of POMRAC Director on the activities and the budget expenditures of POMRAC during the intersessional period after the Seventh NOWPAP POMRAC FPM
5. Review and discussion of major POMRAC activities in 2010-2011 in accordance with the decisions of the 14th NOWPAP Intergovernmental Meeting (IGM)
 - 5.1. Review, discussion and adoption of structure and contents of the new Regional Overview “Atmospheric deposition of contaminants in the NOWPAP region with special case studies on anthropogenic and natural changes”
 - 5.2. Review, discussion and adoption of structure and contents of the new Regional Overview “River and direct inputs of contaminants in the NOWPAP region with special case studies on anthropogenic and natural changes”
 - 5.3. Discussion of activities of the Working Group on Integrated Coastal and River Basin management (ICARM WG)
 - 5.4. Review, discussion and adoption of structure and contents of the second NOWPAP “State of Marine Environment Report” (SOMER)
 - 5.5. Discussion of intersessional activities of POMRAC
 - 5.5.1. NOWPAP Regional Action Plan on Marine Litter (RAP MALI)
 - 5.5.2. Updating of Reference Databases for WG1, WG2 and ICARM WG.

Day 2 (27 May 2010, Thursday)

6. Review of POMRAC workplan and budget for 2010-2011 with consideration of the decisions of the 14th NOWPAP IGM
7. Date and venue of the Ninth NOWPAP POMRAC Focal Points Meeting
8. Other matters
9. Adoption of the report of the meeting
10. Closure of the 8th NOWPAP POMRAC FPM

Annex III

**Proposal for the NOWPAP POMRAC activity 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”.**

Annex III

Proposal for the NOWPAP POMRAC activity 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”.

1 Background

Analysis of results of works WG1 for 2005-2008 reveals that practically all tasks of WG1 put in TOR for WG1 have been achieved under the financing allocated by NOWPAP.

According to the decisions of NOWPAP Intergovernmental Meetings (IGMs), NOWPAP POMRAC has prepared two technical reports on the regional assessment of the Atmospheric deposition of contaminants in NOWPAP Region. On the whole, general task of POMRAC activity in the framework of ICARM is an integral assessment of impact of land-based sources to the flows of pollutants entering coastal and marine water areas of NOWPAP.

Further new trends of NOWPAP activities on the large scale and of POMRAC WG1 in particular will primarily cover the assessment of inputs of atmospheric pollutants including mineral dust (yellow sand) and its impacts on coastal marine ecosystems under ICARM.

Two tasks can be singled out in this relation:

- 1) Tracking of major sources of atmospheric pollution and their deposition over coastal regions,
- 2) Areas of the most considerable impacts and temporal dynamics assessment for both anthropogenic factors and natural factors (primarily related with global changes).

In 2010-2011 we propose to carry out the activities on preparation of the Regional Overview on the mentioned trends with conventional title “Case studies of Atmospheric deposition of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region”.

2 Goal

The goal of this activity is to investigate the environmental status and trends within some typical and/or important coastal localities of NOWPAP countries, and to correlate this information on the changes of Atmospheric Deposition in Region. These case studies will be then compiled in a regional overview, which would contribute significantly to the second edition of the NOWPAP “State of Marine Environment Report”.

3 Main tasks

Each NOWPAP member state will be required to conduct an assessment of the status and trends of the Atmospheric Deposition in their selected case study sea areas, including the utmost comprehensive characteristic of the relevant land-based sources of pollution, including emission, transport, reaction and deposition processes. POMRAC will request Focal Points to nominate experts that are capable to carry out the following work under the MoU with POMRAC.

3.1 Selection of the case study areas (by national experts)

Select a case study area within NOWPAP region, where environmental quality degradation due to human activity and/or natural changes took place in the past. Divide the assessment area into sub areas if necessary to conduct an assessment effectively.

The following areas are considered as potential areas for assessment.

- Jiaozhou Bay and/or Dalian coastal area, China
- Southwest off Honshu Island and Northwest off Kyushu Island, Japan
- Jinhae Bay and/or Masan Bay, Korea
- Peter the Great Bay, Russia

3.2 Collection of relevant information (by national experts)

Collect information and data on the case study areas from existing published data in accordance with the draft table of contents (proposed below).

3.3 Preparation of a case study report for selected areas (by national experts)

Prepare an assessment report for each selected area in accordance with the draft table of contents (proposed below).

3.4 Preparation of the Regional overview (by regional subcontractor /expert)

Prepare the Regional overview based on the case studies reports presented by NOWPAP experts in accordance with the draft table of contents (proposed below).

Draft table of contents for the reports

on Case studies of Atmospheric deposition of contaminants with focus on the anthropogenic and natural changes in the selected areas of the NOWPAP region

1. Executive Summary

a. Institutional arrangement for the developing report (who prepared this report)

2. Introduction

a. Goals and objectives of the report

b. General background information on NOWPAP (set the report in the context of NOWPAP, short history, decisions)

3. Geographical scope of the specified case study areas (reasons/substantiation of the study areas choice/selection, geographical coverage, major rivers, coasts, geomorphology, climatic features, landscape structure, land-use features etc.)

4. Social and economic situation at present time and during the last 50 years (short overview of relevant social and economic features related to the changes of river and direct inputs of contaminants. e.g. population, distribution of communities, anthropogenic activities which cause direct and indirect changes of contaminant inputs)

5. Present situation of atmospheric deposition of contaminants (assessment of global climate changes, including changes in meteorological conditions, assessment of existing trends in changing of composition and amount of depositions) in the NOWPAP Region based on the latest available monitoring data (20 or more years).

6. The influence of different human activities on atmospheric deposition (the analysis of the links between human activities and environmental problems of the coastal zone)

7. Conclusions

References (related publications, websites and other information sources)

Note: The format of Tables and Figures will be provided by POMRAC Secretariat by June 2010

Procedure for the compilation and preparation of the 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”

The procedure may include the following stages:

1. The Regional Overview will be compiled on the basis of “Structure of the Regional Overview” agreed upon by the 8th NOWPAP POMRAC Focal Points Meeting. Different sources may be used for compilation of the Overview.
2. The Regional Overview will be prepared by the regional consultant and experts from each NOWPAP Member Country. Financial support for the preparation of the Regional Overview will be provided by POMRAC, according to guidance of POMRAC FPs.
3. Draft Regional Overview will be submitted to POMRAC Secretariat by the consultant before November 2010. POMRAC Secretariat will submit Draft Overview to the WG 1 and POMRAC Focal Points of each countries by e-mail. After receiving comments from WG 1 and POMRAC FPs of each country (within 30 days), the overview will be amended by the consultant and submitted to the next POMRAC FPM for review and adoption.
4. The next POMRAC FPM will discuss and agree whether the Overview is completed. When finalized, the Overview will be printed as a POMRAC technical report.

Annex IV

**Proposal for the NOWPAP POMRAC activity for 2010-2011 for
WG1 “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”**

Annex IV

Proposal for the NOWPAP POMRAC activity for 2010-2011 for WG1 “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”

4 Background

According to the decisions of NOWPAP Intergovernmental Meetings (IGMs), NOWPAP POMRAC has prepared two technical reports on the regional assessment of the contaminants inputs to the marine environment: “Regional overview on river and direct inputs of contaminants into the marine and coastal environment in NOWPAP region” (#4, 2006) and “Regional overview on river and direct inputs of contaminants into the marine and coastal environment in NOWPAP region with special focus on the land based sources of pollution” (#7, 2009). Moreover, “The State of Marine Environment Report” has been compiled in 2007. The results of these activities have shown that clear relationships between input of contaminants from the land based sources and changes of the coastal marine environment could be found only for some limited areas, where suitable data sets are available. Therefore, the 7th POMRAC Focal Points Meeting (FPM) has suggested a new activity for 2010-2011 biennium in order to highlight linkages between river and direct inputs of contaminants and the environmental changes within specific coastal areas. This activity has been approved by the 14th NOWPAP IGM.

5 Goal

The goal of this activity is to look at the environmental status and trends within some typical and/or important coastal localities of NOWPAP countries, and to correlate this information with the changes of river and direct inputs of contaminants to the sea from the adjacent watersheds. These case studies will be then compiled in a regional overview which would contribute significantly to the second edition of the NOWPAP “State of Marine Environment Report”.

6 Main tasks

Each NOWPAP member state will be required to conduct an assessment of the status and trends of the marine environment in their selected case study sea areas, including the utmost comprehensive characteristics of the relevant land-based sources

of pollution. POMRAC will request Focal Points to nominate experts that are capable to carry out the following work under the MoU with POMRAC.

6.1 Selection of the case study areas (by national experts)

Select a case study area within NOWPAP region, where environmental quality degradation due to human activity and/or natural changes took place in the past. Divide the assessment area into sub areas if necessary to conduct an assessment effectively.

The following areas are considered as potential areas for assessment:

- Jiaozhou Bay and/or Dalian coastal area, China
- Northwest off Kyushu Island, Japan
- Jinhae Bay and/or Masan Bay, Korea
- Peter the Great Bay, Russia

6.2 Collection of relevant information (by national experts)

Collect information and data on the case study areas from existing published data in accordance with the draft table of contents (proposed below).

6.3 Preparation of a case study report for selected areas (by national experts)

Prepare an assessment report for each selected area in accordance with the draft table of contents (proposed below).

6.4 Preparation of the Regional overview (by regional expert)

Prepare the Regional overview based on the case studies reports presented by NOWPAP experts in accordance with the draft table of contents (proposed below).

Draft table of contents for the reports

“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”

1. Executive Summary

Institutional arrangement for the developing of the report (who prepared this report)

2. Introduction

a. Goals and objectives of the report

b. General background information on NOWPAP (set the report in the context of NOWPAP, short history, decisions)

3. Geographical scope of the specified case study areas (reasons/substantiation of the study areas choice/selection, geographical coverage, major rivers, coasts, geomorphology, climatic features, landscape structure, land-use features, etc.)

4. Social and economic situation at present time and during the last 50 years

(short overview of relevant social and economic features related to the changes of river and direct inputs of contaminants, e.g. population, distribution of communities, anthropogenic activities which cause direct and indirect changes of contaminant inputs)

5. Environmental problems in the coastal zone, including rivers, coasts and coastal sea areas

5.1 Chemical pollution and temporal changes in composition of river run-off

5.2 Loads of contaminants through rivers and by direct inputs

5.3 Degradation and loss of coastal habitats

5.4 Pollution of the marine ecosystems at present (water, suspended solids, biota) and in the past (by the bottom sediment records)

5.5 Eutrophication and the changes in the structure of biological communities

6. The influence of different human activities on the marine and coastal environment

(the analysis of the links between human activities and environmental situation in the coastal zone)

7. Conclusions

8. References (publications, websites and other information sources used)

Note: The format of Tables and Figures as well as suggested parameters for part 5 will be provided by POMRAC Secretariat by June 2010.

Procedure for the compilation and preparation of the Regional overview on the NOWPAP POMRAC activity “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”

The procedure may include the following stages:

1. The materials for the preparation of Regional overview will be submitted to the POMRAC Secretariat by the national experts from each NOWPAP Member Country no later than 30 November 2010. The materials will be presented in the form of reports compiled in accordance with the “Table of Contents” agreed upon by the 8th NOWPAP POMRAC FPM. Financial support for the preparation of the relevant materials will be provided by POMRAC, according to the guidance of POMRAC FPs.
2. The Regional overview will be prepared by the regional expert in collaboration with experts from each of NOWPAP Member Countries. The Regional overview will be compiled in accordance with the “Table of Contents” agreed upon by the 8th NOWPAP POMRAC Focal Points Meeting. Different sources, including first of all reports presented by national experts, and other NOWPAP RACs publications, may be used for compilation of the overview.
3. Draft Regional overview will be submitted to POMRAC Secretariat by the regional expert by the 30 April 2011. POMRAC Secretariat will submit the draft to the POMRAC experts and POMRAC Focal Points of each country by e-mail. After receiving comments from experts and POMRAC FPs of each country (within 30 days), the overview will be amended by the consultant and submitted to the next POMRAC FPM for review and adoption.
4. The next POMRAC FPM will discuss and agree whether the Regional overview is completed. When finalized, the overview will be published as a POMRAC technical report.

Annex V

Proposal for the NOWPAP POMRAC activity for 2010-2011 for ICARM WG “Regional overview on applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states”

Annex V

Proposal for the NOWPAP POMRAC activity for 2010-2011 for ICARM WG “Regional overview on applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states”

At the Third Meeting of Experts and National Focal Points held on 10 to 12 November 1993 in Bangkok, the Action Plan for the Protection, Management and Development of the Marine And Coastal Environment of the Northwest Pacific Region was discussed and agreed (UNEP / NOWPAP Publication № 1, 1997).

The overall goal of the Northwest Pacific Action Plan is: “The wise use, development and management of the coastal and marine environment so as to obtain the utmost long-term benefits for the human populations of the region, while protecting human health, ecological integrity and the region's sustainability for future generations”.

According to the Plan, one of the most important results of accomplishment of the Plan should have become 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

Thus, within the NOWPAP, integrated coastal zone management was identified as a major response to tackling the growing development pressure witnessed in coastal areas.

The third and fourth Objectives in the initial 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.

Development of program for complex management of the region consists of several stages.

For the initial ten years of its activities, NOWPAP was involved in practical performing of three elements of the Plan: monitoring and assessment of the environmental conditions;

creation of an efficient and effective information base; and establishment of a collaborative and cooperative framework.

The Tenth Intergovernmental Meeting of the Northwest Pacific Action Plan Toyama, Japan, 24-26 November 2005 has approved plan of future actions as "NOWPAP EVOLUTION: New Directions for the NOWPAP RACs and RCU".

Regarding POMRAC, that IGM confirmed the following trend for 2006 and following 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 (ICARM) 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».

Thus, POMRAC must start practical implementation of two main elements of the Action Plan: **integrated coastal area planning** and **integrated coastal area management**.

Of course, these activities will 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 FPM (Vladivostok, Russia, 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. The 12th NOWPAP IGM (Xiamen, China, 23-25 October 2007) has approved these activities. During June-July 2009, the countries performed revising and finalization of the Reports and have presented the Reports to POMRAC.

2nd ICARM WG meeting discussed and 6th POMRAC FPM adopted the structure and contents of Regional Overview on Integrated Coastal and River Basin Management in the NOWPAP Region (ICARM RO). In 2009 POMRAC, through its Focal Points, appointed Dr. Michael Pido as the Expert responsible for preparation of Regional Overview. Further, after receiving of the additional information from National experts, the

harmonization of the Regional Overview of ICARM in the NOWPAP Region has been carried out.

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 relate 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 focused to specific countries, such as localized depletion of fishery resources. Other problems, however, are regional in scope, such as those that relate 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 and/or being undertaken to address the above key management problems/issues. These led to the development and/or adoption of suitable of 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.

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, but in RO ICARM we had not opportunity to present all important aspects of this part of ICARM in our region. First of all different approaches for this procedures.

Although ICARM has significantly improved both the human and natural dimensions in the NOWPAP region, much still needs to be done. Hence, recommendations have been forwarded to address better national priorities, as well as international (transboundary) issues.

ICARM is expected to be among suggested thematic elements of the draft NOWPAP medium-term strategy for 2011-2015 (to be discussed at the 15th NOWPAP IGM) as follows:

Thematic elements	Possible activities	Implementing agents
1. Integrated coastal and river basin management, ICARM <i>(Objectives III and IV of the Action Plan)</i>	Analysis of the best ICARM practices in member states Projects related to: ecosystem valuation; marine spatial planning; ecosystem-based management; marine protected areas Recommendations on applying ICARM principles to biodiversity conservation and climate change adaptation	POMRAC DINRAC CEARAC MERRAC Experts from member states

Considering the abovementioned, the most significant intermediate result of NOWPAP activities for management of the coastal and marine environment should become the development of a Regional Overview of the current state of coastal ecosystems in the NOWPAP region. This assessment is needed as a basis for ICARM activities aiming at optimum use of marine and coastal resources in order to ensure long-term livelihood of coastal population. National reports are expected to be prepared in 2011, while Regional Overview – in 2011-2012.

The tentative title might be “Marine spatial planning for ecosystem-based management in the NOWPAP region”.

The main goal of the NOWPAP Working Group for Integrated Coastal and River Basin Management (NOWPAP ICRBM WG) is to develop strategy for integrated coastal and river basin management in the NOWPAP region. The realization of this goal should be performed in stages. The first and second stages have the following priorities:

Stage 1 (2007-2009)

To distinguish basic national and international aspects of forming and implementation of ICARM and their priorities at international, national and local (within the country) levels;

To present, within the Regional Overview, cause-and-effect analysis of problems (Mechanism of performing these activities includes National Reports and Regional Overview of ICARM state in the region).

Stage 2 (2010-2013)

To collect information how ecosystem valuation, marine spatial planning, and ecosystem-based management are being applied (if at all) in the NOWPAP member states and to share the best practices and case studies, including assessing the role of marine protected areas within ICARM.

To develop guidelines for integrated management of coastal areas and river basins with effective procedures of control of land-based sources of pollution;

To elaborate strategic action program for protection of coastal areas and river basins, which should be in line with the goals and objectives of international, national, regional and local sustainable development, including protection of natural resources;

To recommend necessary interdisciplinary studies on aspects of integrated environmental management and develop standardized techniques of environmental monitoring;

To establish long-term program for exchange of information and experience, development of professional skills and environmental education of population.

Suggested work plan and budget:

Activities	Actions	Tentative Time	Budget (in USD)		
			In 2010	In 2011	Total
ICARM WG activities	Preparation of National inputs by National Experts (An assessment report for each selected area in accordance with the draft table of contents that will be prepared by POMRAC secretariat with assistance of Int. Subcontractor) for regional overview on applications of ecosystem valuation, marine spatial planning and ecosystem-based management in the NOWPAP member states	2010-2011	3,000	3,000	6,000
	Preparation of Regional Overview (international expert)	2011	0	3,500	3,500
	Publication of National Reports and Regional Overview	2011	0	1,000	1,000
Total			3,000	7,500	10,500

Annex VI

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

Annex VI

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

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

First “State of Marine Environment Report for the NOWPAP region” 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 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 5 years since 2005, there is 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 work related to 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 a 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 regional environmental problems, status and trends connected with natural and socio-economical conditions seems 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”). Brief assessment of the marine and coastal biodiversity in the NOWPAP region for the upcoming Nagoya Biodiversity Summit has been prepared already.

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. At the same time many aspects and results which should be included, analyzed, and compiled in this SOMER-2, will be obtained during the ongoing activities of NOWPAP RACs. Therefore to present and discuss the detailed structure and contents of the SOMER-2 seems prematurely for the moment. According to the Workplan for this biennium, POMRAC has to present the draft of SOMER-2 by the end of 2011.

Taking into account these circumstances, POMRAC Secretariat suggests to discuss the structure and contents of SOMER-2 by correspondence by the end of 2010 after the preliminary analysis of the results obtained through the other activities of NOWPAP RACs.

Annex VII

Workplan and Budget for POMRAC for 2010/11 Biennium

Annex VII

Workplan and Budget for POMRAC for 2010/11 Biennium

1. Introduction

The Tenth Intergovernmental Meeting of the Northwest Pacific Action Plan in Toyama, Japan, 24-26 November 2005 has approved plan of future actions as “NOWPAP Evolution: New Directions for the NOWPAP RACs and RCU”.

Regarding POMRAC, that IGM confirmed the following for the next few 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). 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».

From 2007, POMRAC has started practical implementation of activities related to **integrated coastal area planning** and **integrated coastal area management**.

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

Considering the abovementioned, the most significant intermediate result of NOWPAP activities related to management of the coastal and marine environment should become the development of strategic plan of Integrated Coastal Area and River Basin Management (ICARM) in the NOWPAP region.

In accordance with decisions of the 14th NOWPAP IGM, POMRAC during 2010-2011 should focus on

Preparation of the 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”;

Preparation of the Regional Overview “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”;

Preparation of the draft of the second SOMER for the NOWPAP region (with more attention to socio-economic issues, biodiversity conservation, etc.);

Preparation of the Regional overview on marine spatial planning and ecosystem-based management in the selected areas of the NOWPAP region

Activities related to Integrated Coastal Area and River Basin Management;

Updating of Reference Databases for WG1, WG2 and ICARM WG.

The 14th Intergovernmental Meeting approved the budget of \$109,500 for 2010-2011 biennium for POMRAC activities (including \$2,500 for RAP MALL implementation).

2. Main activities of POMRAC in 2010/11 biennium

The following POMRAC activities are suggested for the next biennium:

Organize the 8th Focal Points Meetings with organize 'Back to Back' Meeting of experts of WG 1, WG 2 and ICARM Working Group;
 Organize the 9th Focal Points Meetings with organize 'Back to Back' Meeting of experts of WG 1, WG 2 and ICARM Working Group;
 Activities of WG1 "Preparation of the 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";
 Activities of WG2 "Preparation of the Regional Overview "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";
 Preparation of the draft of the second SOMER for the NOWPAP region (with more attention to socio-economic issues, biodiversity conservation, etc.);
 Preparation of the Regional overview on marine spatial planning and ecosystem-based management in the selected areas of the NOWPAP region;
 update the reference databases for Atmosphere Deposition (WG1), River and Direct Input (WG2) and ICARM (in cooperation with DINRAC);

The workplan and budget was adopted POMRAC Focal Points by E-mail in January 2010 (table 1).

Table 1. Workplan and Budget for POMRAC in 2010/2011

(In view of the decision 14 NOWPAP IGM about reduction of financing up to US \$ 107 000).

Activity	Planned date	Responsibility	Remarks	Budget US\$
8 th FPM	May 2010	POMRAC with assistance of NOWPAP RCU, UNEP	Vladivostok, Russia, or other city in the NOWPAP Region	28,000
'Back to Back' Meeting of WG 1, WG 2 and ICARM WG	May 2010	POMRAC with assistance of RCU and UNEP	Vladivostok, Russia or other city in the NOWPAP Region	
Activities of WG1: Preparing 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".	Throughout 2010/11	POMRAC with assistance of NOWPAP RCU, RACs, UNEP	National experts and International consultant	10,500*
Activities of WG2: Preparing Regional Overview "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".	Throughout 2010/11	POMRAC with assistance of NOWPAP RCU, RACs, UNEP	National experts and International consultant	10,500*

Preparing draft of 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)”.	2011	POMRAC with assistance of NOWPAP RCU, RACs, UNEP	The detailed contents and format will be discussed during 9 th FPM	7,500**
Preparing “Regional overview on marine spatial planning and ecosystem-based management in the selected areas of the NOWPAP region”.	Throughout 2010/11	POMRAC with assistance of NOWPAP RCU, RACs, UNEP	National experts and International consultant	10,500*
Updating reference databases for WG1, WG2 and ICARM WG	Throughout 2010/11	POMRAC through national experts from NOWPAP Member States	With assistance of DINRAC	6,000***
9 th FPM	September -October 2011	POMRAC with assistance of NOWPAP RCU, UNEP	Vladivostok, Russia or other city in the NOWPAP Region	25,000
Activities of RAP MALI: Increasing public awareness about marine litter problem by developing and distributing promotional materials	Throughout 2010/11	POMRAC in cooperation with RCU		2,500
Website update	Throughout 2010/11	POMRAC		1,000
Cooperation, coordination of POMRAC activities and communication	Throughout 2010/11	POMRAC in cooperation with RCU, UNEP, RACs and relevant regional organizations		8,000
Total				109,500

* US\$ 2,000 for each national expert from NOWPAP member countries (US\$ 8,000);
 US\$ 2,000 for international expert; US\$ 500 for printing;

** US \$1,500 for each national expert from NOWPAP member countries (US\$ 6,000);
 US\$ 1,500 for international experts;

*** US\$ 500 for each expert from NOWPAP member countries for each database (12 experts, \$500 each).