NOWPAP DINRAC

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Report of 9th NOWPAP DINRAC Focal Points Meeting

DINRAC, Hangzhou, the People’s Republic of China
26 - 28 April 2011

UNEP/NOWPAP/DINRAC/FPM 9/13
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THE REPORT OF NINTH NOWPAP DINRAC FOCAL POINTS MEETING
(Hangzhou, People's Republic of China, 26 - 28 April 2011)

Background

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, 14 September 1994; UNEP (OCA)/NOWPAP/IG.1/5) by the States in the Northwest Pacific region: People's Republic of China, Japan, Republic of Korea and Russian Federation (hereinafter referred to as China, Japan, Korea, Russia, respectively). Resolution 1 identified five areas of priority for implementation of the Action Plan, one of which was NOWPAP/1: Establishment of a Comprehensive Database and Information Management System.

2. The Second NOWPAP Intergovernmental Meeting held in Tokyo, Japan (20 November 1996) adopted the Program Document describing the implementation of NOWPAP projects. Regarding NOWPAP/1, Intergovernmental Oceanographic Commission (IOC) of UNESCO was designated as the implementing agency to prepare the project proposal for the second phase of the implementation.

3. Subsequently, the proposal for the second phase of the implementation for NOWPAP/1 was adopted at the Fourth NOWPAP Intergovernmental Meeting held in Beijing, China (6-7 April 1999). The Meeting also decided to establish a network of Regional Activity Centers (RACs) for the implementation of the Action Plan.

4. In December 2000, the Data and Information Network Regional Activity Center (DINRAC) hosted by the Environmental Information Center of State Environmental Protection Administration of China (SEPA) was established in Beijing based on the Resolution 2 of the Fourth NOWPAP Intergovernmental Meeting (ANNEX VI OF UNEP(WATER)/NOWPAP IG.4/7). DINRAC was designated to function as the Secretariat for NOWPAP/1 and the NOWPAP/1 Coordinating Working Group (CWG) and took on the responsibilities as defined in its Terms of Reference.

5. Resolution 1 adopted at the Fourth NOWPAP Intergovernmental Meeting also requested the NOWPAP Members to designate necessary members for participation in the NOWPAP/1 CWG. Following up on the nomination and designation of the members of the CWG, the NOWPAP/1 CWG was established. The First Meeting of the Coordinating Working Group for the Establishment of a Comprehensive Database and Information System (NOWPAP/1) was held in Beijing (23-25 May 2001). The meeting approved the workplan and budget for DINRAC for 2001-2003 and identified ten priority fields of activities developed by DINRAC.
6. The Seventh NOWPAP Intergovernmental Meeting held in Vladivostok, Russia (20-22 March 2002) approved the recommendations of UNEP that a network of Focal Points (FPs) for DINRAC has to be established by re-arranging the title, organization and the responsibilities of the existing Coordinating Working Group in order to improve the implementation of NOWPAP/1. The Seventh NOWPAP Intergovernmental Meeting also requested NOWPAP National Focal Points to nominate the DINRAC Focal Points for their respective countries.

7. Upon decision by the Seventh NOWPAP Intergovernmental Meeting, the CWG and the CWG Meeting for NOWPAP/1 evolved into the NOWPAP DINRAC Focal Points and the NOWPAP DINRAC Focal Points Meeting respectively as the institutional arrangement. The Focal Points Meeting would be organized once a year, starting with the First NOWPAP DINRAC Focal Points Meeting in 2002.

8. The First NOWPAP DINRAC Focal Points Meeting (FPM) was held in Shanghai, China (25-28 November, 2002). The meeting presented the NOWPAP DINRAC Report of activities 2001-2002 and reviewed the progress made by DINRAC for specific tasks agreed at the First CWG Meeting and also approved the activities and budget for NOWPAP DINRAC for the 2002-2003 biennium (UNEP/ NOWPAP/ DINRAC/ FPM1/13 ANNEX 3).

9. The Second NOWPAP DINRAC Focal Points Meeting was held in Sanya, China (29 October-1 November 2003). Besides the routine DINRAC activity report in 2002-2003, the meeting mainly discussed and reviewed the General NOWPAP Policy on Data and Information Sharing (Activity D) and the Establishment of Principles and Guidelines for NOWPAP Meta-database Management System (Activity E). The meeting also approved the workplan and budget for NOWPAP DINRAC for the 2004-2005 biennium (UNEP/ NOWPAP/ DINRAC/ FPM2/15 ANNEX 7).

10. The Eighth NOWPAP Intergovernmental Meeting held in Sanya, China (5-7 November 2003) approved the workplan and budget of NOWPAP for 2004-2005, including the budget of $150,000 for DINRAC activities (UNEP/NOWPAP/IG.8/11 Annex I). The meeting also approved the Terms of Reference for the NOWPAP DINRAC Focal Points Meeting.

11. The Third NOWPAP DINRAC Focal Points Meeting was held on 26-28 October 2004 in Busan, Korea. The meeting mainly discussed new suggested specific activities and mechanisms for implementation of DINRAC activities. The draft ToR for NOWPAP experts group and workplan and budget for NOWPAP DINRAC for 2004-2005 were also revised and agreed by the meeting. The Activity I on the Framework for the Creation of NOWPAP DINRAC Meta-database, Activity J on the Existing GIS-type Products from within and outside of NOWPAP region and Activity K on the Compilation of National Reports and Regional Report on Coastal and Marine Biodiversity Data and Information were also agreed to be put into the DINRAC workplan for the biennium of 2004-2005.
12. In the Ninth NOWPAP Intergovernmental Meeting held on October 30-November 2 2004 in Busan, Korea, the proposal for NOWPAP RACs evolution was put forward by UNEP for discussion. The Activity I and Activity J were approved by the IGM to be implemented in 2005.

13. In accordance with the recommendations of the First Intersessional Workshop of NOWPAP held in Seoul, Korea, 25-26 July 2005, data resulting from other NOWPAP RACs activities (oil spills, HABs, atmospheric and river inputs of contaminants, etc.) and biodiversity data could be also included into DINRAC database. Contributions towards implementation of global biodiversity conventions (CBD, CITES, CMS, Ramsar, etc.) and joint work with MERRAC on marine invasive species were also suggested for future DINRAC activities.

14. The Fourth NOWPAP DINRAC Focal Points Meeting was held on 27-28 September, 2005 in Dalian, China. The meeting mainly reviewed progress of the Activity I on the Framework for the Creation of NOWPAP DINRAC Meta-database and the Activity J on the Existing GIS-type Products from within and outside of NOWPAP regions. The meeting also discussed and approved the proposed DINRAC workplan and budget for the 2006-2007 biennium (UNEP/NOWPAP/DINRAC/FPM 4/17 ANNEX VI).

15. The Fifth NOWPAP DINRAC Focal Points Meeting was held on 10-11 May, 2006 in Shenzhen, China. The meeting mainly discussed DINRAC’s newly expected activities and revised proposed workplan and budget for the biennium of 2006-2007 based upon the decision of the Tenth Intergovernmental Meeting on NOWPAP. The meeting also agreed to submit “General NOWPAP Policy on Data and Information Sharing” to the Eleventh IGM of NOWPAP for final approval.

16. The Sixth NOWPAP DINRAC Focal Points Meeting was held on 24-25 May, 2007 in Beijing, China. The meeting mainly reviewed progress of the DINRAC Activity I, K, L, M and O. The meeting also discussed and approved the proposed DINRAC workplan and budget for the 2008-2009 biennium (UNEP/NOWPAP/DINRAC/FPM 6/22 ANNEX VI) and agreed to submit the workplan and budget for the 2008-2009 biennium to the Twelveth IGM on NOWPAP for final approval.

17. Based upon the agreement of the Sixth NOWPAP DINRAC Focal Points Meeting, the Seventh NOWPAP DINRAC Focal Points Meeting was held on 13-14 May, 2008 in Beijing, China. The meeting agreed that the Eighth DINRAC FPM in 2009 should be carried out longer than 2 days so more experts from related projects and organizations should be invited to contribute their proposals.

18. The Eighth DINRAC Focal Points Meeting was held on 19-21 May 2009 in Beijing, China with the kind support from RCU. The meeting has concentrated on the discussion of the four proposals for the DINRAC activity workplan and budget in 2009 and in the biennium 2010-2011, prior to the Fourteenth Intergovernmental Meeting to be held in December, 2009 in Japan.
19. The Ninth DINRAC Focal Points Meeting was held on 26-28 April 2011 in Hangzhou, China with the kind support from RCU. The meeting mainly reviewed the progress made in the intersessional period after the Eighth NOWPAP DINRAC FPM, discussed and approved the adjusted DINRAC workplan and budget in 2011 (UNEP/NOWPAP/DINRAC/FPM 9/13 ANNEX IV), and discussed and approved the proposed DINRAC workplan and budget for the 2012-2013 biennium (UNEP/NOWPAP/DINRAC/FPM 9/13 ANNEX VII) and agreed to submit the workplan and budget for the 2012-2013 biennium to the Sixteenth IGM of NOWPAP for final approval.

**Agenda item 1: Opening of the meeting**

20. The Meeting was opened at 9:30 a.m. on 26 April 2011 in Hangzhou, China by Mr. Xiangbin PEI, Chair of the Eighth DINRAC Focal Points Meeting. Mr. PEI expressed his welcome to all the participants. The Director of DINRAC, Mr. Hongbo SHANG, made opening remarks to the meeting. He thanked NOWPAP RCU and DINRAC Focal Points for their kind support and contributions to DINRAC activities, and their great contributions to the preparation of this meeting. Mr. Sangjin LEE, representative of NOWPAP RCU, delivered an opening statement to the meeting. He suggested that DINRAC should be responsible for data and information on all kinds of marine environmental issues. He also thanked the Ministry of Environmental Protection of China and all DINRAC Focal Points for their continuous supports to DINRAC.

21. The delegates from China welcomed all participants, and suggested that DINRAC shall proceed with its work on the basis of the past work. The delegates from Japan thanked DINRAC Secretariat for its preparation of the meeting. The delegates from Korea thanked Chinese government, RCU, DINRAC Secretariat and the Director of DINRAC for its preparation of the meeting. The delegate from Russia expressed its wish to proceed with the suggested agenda of the meeting. Some participants that participated in DINRAC activities for the first time were introduced briefly.

**Agenda item 2: Organization of the meeting**

Agenda item 2.1: Election of the officers (Chairperson and Rapporteur)

22. According to the Terms of Reference for the NOWPAP DINRAC Focal Points Meeting (UNEP/NOWPAP/DINRAC/FPM 3/17), the Meeting unanimously elected Dr. Yoshihisa SHIRAYAMA, Japanese Focal Point, as the Chairperson, and Mr. Hee-Dong JEONG, Korean Focal Point, as the Rapporteur respectively.

Agenda item 2.2: Organization of work

23. The Meeting agreed to apply the rules of procedures for the Meeting in line with the provision in the Terms of Reference of the NOWPAP DINRAC Focal Points Meeting
Agenda item 2.3: Adoption of the agenda

24. Upon the invitation of the Chairperson, the Director of DINRAC made a brief introduction to the Provisional Agenda (UNEP/NOWPAP/DINRAC/FPM 9/1) and the Annotated Provisional Agenda (UNEP/NOWPAP/DINRAC/FPM 9/2). He invited the meeting to especially focus on the discussion of progress reports on DINRAC activities in 2010, proposal for adjusted DINRAC workplan and budget in 2011 and proposal for the workplan in the 2012-2013 biennium. All the delegates agreed to proceed with the suggested Agenda.

Agenda item 3: Progress report on the implementation of NOWPAP activities since the Eighth DINRAC Focal Points Meeting

25. The NOWPAP RCU representative briefed the meeting on the progress of the NOWPAP activities during the intersessional period since the Eighth DINRAC FPM including the results of the Fifteenth NOWPAP Intergovernmental meeting held in Moscow, Russia, 16-18 November 2010 (UNEP/NOWPAP/DINRAC/FPM 9/3). He briefly introduced current activities of CEARAC, MERRAC and POMRAC, and efforts made by RCU and RACs on building partnerships with other international mechanisms and programmes, raising public awareness, resource mobilization through developing project proposals, and the work under Regional Action Plan on Marine Litter (RAP MALI).

26. MERRAC representative suggested that, in its future report on the progress of NOWPAP, RCU should include the major decisions of last NOWPAP Intergovernmental Meeting (IGM), thus to inform the FPs of the guidance from the last IGM. RCU representative took note of the suggestion. Korean and Russian delegate thanked RCU for its efforts.

Agenda item 4: Review of the progress in the implementation of DINRAC workplan for the 2010-2011 biennium

Agenda item 4.1: Report on the overall implementation of DINRAC activities and budget in 2010

27. The Director of DINRAC presented the report on the overall implementation of DINRAC Activities and budget in 2010 (UNEP/NOWPAP/DINRAC/FPM 9/4). In his presentation, the specific activities implemented by DINRAC since the Eighth NOWPAP DINRAC Focal Points Meeting were introduced briefly.

28. Chinese FP asked about the reason that the actual expenditure exceeded the original budget. The Director of DINRAC explained the reasons, including the high labor cost for some of the works in 2010, the high budget proposed by the IT experts for the WebGIS work, etc. Chinese FP suggested that the budget might need to be increased in the future.
29. Korean and Russian FPs expressed appreciation toward DINRAC Secretariat for its efforts on the work in 2010.

**Agenda item 4.2: Report on the progress of major activities in 2010**

30. A DINRAC staff, Ms. Tong AN, presented the progress of major DINRAC activities since the Eighth DINRAC Focal Points Meeting (UNEP/NOWPAP/DINRAC/FPM 9/5), including Update, Maintenance and Enrichment of DINRAC Website, Maintenance and Update of Regional Internet Communication Systems, Update of the Database on Marine Protected Areas, Update of the Meta-database on Contaminants and Nutrients in the Coastal and Marine Environment, Regional Overview and the Database of Marine Invasive Species (MIS), and the Development of WebGIS-based Visualization of Marine Environmental Data.

31. Regarding the DINRAC website, CEARAC representative pointed out that some information of DINRAC website need to be updated, and CEARAC was preparing a list of items that need to be updated, and it will be submitted to DINRAC soon. POMRAC representative stressed the need to support the DINRAC website through closer cooperation between DINRAC and other RACs, thus to update the contents of the website in a timely manner. MERRAC representative suggested to add a link in the WebGIS webpage to relevant MERRAC webpage, thus to provide a link to more information. Chinese FP stressed the importance of cooperation between DINRAC and other RACs. He also pointed out that the WebGIS is a good start for DINRAC. Korean and Russian FPs mentioned the problem of slow speed of internet access to DINRAC website.

32. Regarding the Regional Internet Communication Systems, Korean FP asked for explanation on the “bad links” among the links to information sources. Ms. Tong AN made explanation. Russian FP explained that the update of the Regional Portal was on a voluntary basis and there was interface for DINRAC FPs to provide information resources, and DINRAC FPs need to use this function more effectively. The Director of DINRAC stressed that the Regional Portal could be a very good meta-database, and the DINRAC Secretariat will think about the update of the Regional Portal in a comprehensive way and will submit suggestions to DINRAC FPs. Russian FP gave a short presentation on possible future activities regarding the Regional Portal.

33. Regarding the update of the Database on Marine Protected Areas, Japanese expert made explanations on the situation of MPA issues in Japan. Korean FP informed the meeting that he was finalizing the data of MPAs in Korea and will soon submit the data to DINRAC Secretariat.

34. Regarding the work on MIS issue, Korean FP asked for explanation on the essential problems in NOWPAP region regarding MIS issue. Russian expert, Dr. Konstantin LUTAENKO, made explanations on the situation of MIS and stressed that the Report was the first effort of
such kind on MIS in English in NOWPAP region.

35. Regarding the WebGIS system, Chinese FP suggested to add information of ICC into the WebGIS system. Korean FP asked for explanation on the rectangular figure in the WebGIS webpage. Ms. Tong AN explained that the rectangular figure is caused by the location data. Chinese FP suggested to use point figure for location indication, and Japanese FP also suggested this kind of location display. Regarding the WebGIS display of ICC activities, RCU representative pointed out that CEARAC had already done some work on this, and suggested CEARAC to communicate with DINRAC on this issue.

Agenda item 5. Discussion on DINRAC workplan and budget for 2011

Agenda item 5.1: Proposal for an international workshop on MIS problems in NOWPAP region

36. The Director of DINRAC made an introduction of the Proposal for an International Workshop on MIS Problems in NOWPAP Region (UNEP/NOWPAP/DINRAC/FPM 9/6), including the background, objectives, workplan and budget.

37. Korean FP asked for the reasons to conduct this workshop, and raised concern about the mission of DINRAC to hold this workshop. Japanese FP expressed similar opinion. The Director of DINRAC made explanations on the objectives of the workshop, including the need to make further use of the Report on MIS, to promote exchange of information among NOWPAP member states, to provide recommendations to the member states, and to improve the visibility of DINRAC and the awareness of relevant stakeholders on the MIS issue.

38. Russian expert, Dr. Konstantin LUTAENKO, gave a short introduction of the conclusions in the Report on MIS related to the Workshop. Chinese FP stressed that MIS is an international issue and needs international cooperation, and suggested DINRAC to work with other RACs on this issue.

39. RCU representative raised concern about the limited budget for this workshop and hence the quality of the results of the workshop. MERRAC representative suggested that the proposed workshop should be organized by NOWPAP as a whole rather than only by DINRAC, and in the future MERRAC may also carry out similar activities. POMRAC representative noted that the workshop is a good idea in general, but the quality of the workshop is an issue to be considered. He mentioned that PICES will also hold annual meeting in October and suggested to avoid overlapping.

40. The meeting decided not to have the proposed workshop in 2011 and to allocate the budget to other activities.

Agenda item 5.2: Proposal for an Atlas of Marine Invasive Species in NOWPAP Region
41. The Director of DINRAC made an introduction of the Proposal for an Atlas of Marine Invasive Species in NOWPAP Region (UNEP/NOWPAP/DINRAC/FPM 9/7), including the background, objectives, workplan and budget.

42. Chinese FP raised concern about whether the budget will be enough for the work on Atlas, and stressed potential needs for additional payment in collecting data and information for the Atlas, such as royalties. Russian FP asked the possible duplication between the Atlas and the Report on MIS. Russian expert indicated that 1,000 USD for each member state will not be enough for the Atlas, and the proposed schedule will be too short to complete the work. Korean FP expressed that the proposal fits into the mission of DINRAC, and that the Atlas might be updated periodically. Japanese FP took the similar view as the Korean FP.

43. Regarding the leading expert for this work, the meeting agreed that Russia will be the leading country for the Atlas, and Dr. Konstantin LUTAENKO will be the leading expert for the work.

44. Based on the discussion, the proposal was revised and the meeting agreed to the revised proposal, as shown in Annex III.

Agenda item 5.3: Overall workplan and budget for 2011

45. The Director of DINRAC made a presentation on the suggested workplan and budget for 2011 (UNEP/NOWPAP/DINRAC/FPM 9/8).

46. After a round of informal consultation, the proposal was revised by DINRAC Secretariat and the meeting agreed to the revised proposal on the adjusted workplan and budget for 2011, as shown in Annex IV.

Agenda item 6: Discussion on the development of the NOWPAP Mid-term Strategy in relation to DINRAC

47. RCU representative gave a brief introduction of the latest progress of the development of the NOWPAP Mid-term Strategy, including the 9 themes for future NOWPAP activities.

48. The Director of DINRAC made a presentation on suggestions for the development of the NOWPAP Mid-term Strategy in relation to DINRAC (UNEP/NOWPAP/DINRAC/FPM 9/9), including continuing updating and enriching the existing databases, setting up new databases, consideration of the integration of NOWPAP's data and information network, utilizing the databases to provide more references for the policy-making of Member States, promoting exchange among the related experts and government officials of the Member States, actively disseminate the data and information network of NOWPAP. He invited participants to give their views and comments on this information paper. Korean FP expressed their support for the basic concept among the suggestions made by DINRAC Secretariat. RCU expressed the view
that the suggestions are in line with the mandate of DINRAC.

49. Upon the inquiry of Japanese FP, the Director of DINRAC explained that the suggestions were made under the broad framework of the draft NOWPAP Mid-term Strategy and in accordance with the mission of DINRAC.

**Agenda item 7: DINRAC workplan and budget for the 2012-2013 biennium**

**Agenda item 7.1: Proposal for annual summary of major marine environmental data available in member states**

50. The Director of DINRAC made an introduction of the proposal for annual summary of major marine environmental data available in member states (UNEP/NOWPAP/DINRAC/FPM 9/10), including the background, objective, workplan and budget. The Chair noted that this is a major proposal for the work of DINRAC in the 2012-2013 biennium.

51. RCU representative suggested the meeting to consider seriously the availability of data in NOWPAP member states, such as waste dumping, atmospheric deposition of pollutants and bottom sediments quality and major pollutants. He added that the proposal is perfectly in line with the mission of DINRAC. Korean FP pointed out this kind of work can not be done only by DINRAC. Russian FPs suggested that not all the data should be collected annually, since some data are not updated annually. Japanese FP indicated that it is possible to collect relevant data under the cooperation with other agencies. Chinese FP generally agreed with the proposal and indicated that there is some information in public documents in China. POMRAC representative suggested to add all relevant public sources as the sources for the data, and the collection of data on river inputs of pollutants and atmospheric deposition could be done with the support of POMRAC. MERRAC representative suggested that physical marine data could be included in the data collection. The Chair indicated that there are already comprehensive data of this kind done by other organizations, and it will be duplicated.

52. According to the discussion at the meeting, the proposal was revised and the revised proposal was agreed by the meeting, as shown in Annex V.

**Agenda item 7.2: Proposal for annual summaries of the policies and measures for the prevention of coastal and marine pollution in member states**

53. The Director of DINRAC made an introduction of the proposal for annual summaries of the policies and measures for the prevention of coastal and marine pollution in member states (UNEP/NOWPAP/DINRAC/FPM 9/11), including the background, objective, workplan and budget.

54. Chinese FP supported this proposal. Japanese and Russian FPs suggested that this kind of activity does not need to be done annually, but in a longer period.
According to the discussion at the meeting, the proposal was revised and the revised proposal was agreed by the meeting, as shown in Annex VI.

**Agenda item 7.3: Overall DINRAC workplan and budget for the 2012-2013 biennium**

56. The Director of DINRAC made a presentation on the proposal for the overall DINRAC workplan and budget for the 2012-2013 biennium (UNEP/NOWPAP/DINRAC/FPM 9/12).

57. The Chair mentioned that in the discussion on MIS work on the first day of the meeting, the paper printing of the Atlas of MIS was postponed to 2012, and the workshop on MIS issue was also postponed for further discussion, which should be included in this discussion. Chinese FP supported the idea of cooperation among RACs to hold the MIS workshop.

58. A new revised proposal for the workplan and budget for DINRAC activities in the 2012-2013 Biennium was proposed by the Chair taking into account the opinions of participants on original document (UNEP/NOWPAP/DINRAC/FPM 9/12). The meeting reached agreement on the revised proposal for DINRAC workplan and budget for the 2012-2013 biennium and agreed to submit it to the Sixteenth NOWPAP IGM, as shown in Annex VII.

**Agenda item 8: Arrangement of the Tenth DINRAC Focal Points Meeting**

59. The Meeting agreed that the Tenth NOWPAP DINRAC Focal Points Meeting will be held in China in late May 2012. Concrete date and venue of the meeting will be decided through consultation among DINRAC FPs by the DINRAC Secretariat in a later stage.

**Agenda item 9. Other matters**

60. The Japanese FP suggested to start the relevant work of 2012 before the Tenth DINRAC Focal Points Meeting in late May 2012 through early preparation by DINRAC Secretariat so as to use the limited time more efficiently. The meeting agreed to the suggestion.

61. CEARAC representative informed that CEARAC is planning to organize a training course on remote sensing data analysis in China in the 2012-2013 biennium and will need assistance from DINRAC Secretariat. The Director of DINRAC expressed its pleasure to cooperate with CEARAC on this activity.

**Agenda item 10: Adoption of the report of the meeting**

62. The draft report of the Ninth NOWPAP DINRAC Focal Points Meeting with its annexes was prepared by the Secretariat and Rapporteur for consideration and adoption. After minor amendments, the report was adopted by the meeting as the record of its deliberations.
Agenda item 11: Closure of the meeting

63. After the customary exchange of courtesies, the Chairperson declared the Meeting closed at 12:00 on Thursday, 28 April 2011.
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Annex I

List of Participants to the Ninth NOWPAP DINRAC Focal Points Meeting
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Annex II

List of Documents for the Ninth NOWPAP DINRAC Focal Points Meeting
List of Documents for the Ninth NOWPAP DINRAC Focal Points Meeting

<table>
<thead>
<tr>
<th>Working Documents</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/1</td>
<td>Provisional Agenda</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/2</td>
<td>Annotated Provisional Agenda</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/3</td>
<td>Report of the NOWPAP Regional Coordinating Unit (RCU) on the implementation of NOWPAP activities since the 8th DINRAC Focal Points Meeting</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/4</td>
<td>Report on the overall implementation of DINRAC Activities and budget in 2010</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/5</td>
<td>Report on the progress of major DINRAC activities in 2010</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/6</td>
<td>Proposal for an international workshop on MIS problems in NOWPAP region</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/7</td>
<td>Proposal for an Atlas of Marine Invasive Species in NOWPAP Region</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/8</td>
<td>Adjusted workplan and budget for 2011</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/9</td>
<td>DINRAC secretariat’s suggestions on the mid-term development of DINRAC</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/10</td>
<td>Proposal for Annual Summary of Major Marine Environmental Data available in member states</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/11</td>
<td>Proposal for annual summaries of the policies and measures for the prevention of coastal and marine pollution in member countries</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/12</td>
<td>Proposal for the overall DINRAC workplan and budget for the 2012-2013 biennium</td>
</tr>
<tr>
<td>Reference Documents</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>----------------------------------------------------------------</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/Ref.1</td>
<td>First Announcement of the Ninth NOWPAP DLRAC Focal Points Meeting</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/Ref.2</td>
<td>Second Announcement of the Ninth NOWPAP DLRAC Focal Points Meeting</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/Ref.3</td>
<td>Logistic Information for the Ninth NOWPAP DLRAC Focal Points Meeting</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/Ref.4</td>
<td>List of Documents</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/Ref.5</td>
<td>List of Participants</td>
</tr>
<tr>
<td>UNEP/NOWPAP/DINRAC/FPM 9/Ref.6</td>
<td>Tentative Timetable for the Ninth NOWPAP DLRAC Focal Points Meeting</td>
</tr>
<tr>
<td>UNEP/NOWPAP IG. 15/12</td>
<td>Meeting Report of the 15th NOWPAP IGM</td>
</tr>
</tbody>
</table>
Annex III
Atlas of Marine Invasive Species in the NOWPAP Region
# Table of Contents

I  Background ............................................................................................................................. 1  
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III  Contents of Work .................................................................................................................. 2  
IV  Allocation of Work and Budget ............................................................................................. 2  
V  Schedule of Work .................................................................................................................... 4
I Background

1. In order to accomplish its function on exchange of marine environmental data and information, NOWPAP DINRAC, through the efforts of its Focal Points (FPs) and national experts, has taken efforts in the field of marine invasive species (MIS) in the NOWPAP region since 2009.

2. With the support and cooperation from all members of NOWPAP, including China, Japan, Republic of Korea and Russia, DINRAC carried out an investigation on MIS and its potential damage in Northwest Pacific region in 2009-2010, including national reports by China, Japan, Republic of Korea and Russia, and a regional overview. This work provided basic scientific information on MIS for the policy-makers, academics, the public and other stakeholders, and will be a major contribution toward addressing MIS in the NOWPAP region.

3. The national reports and regional report had been completed by experts from the four member countries of NOWPAP, and the regional report has also been completed by the regional expert and reviewed by RCU and DINRAC Focal Points by the end of October 2010. The report had been published in early November 2010.

4. Among others, the conclusion of this regional overview claimed that, the problems related to the MIS in the NOWPAP region are ones of the most important issues with regard to biodiversity changes and management. MIS appearance, establishment and expansion impact ecosystems, economy and public health. There is insufficient information about MIS at both national and international levels. The present regional overview and four national reports are the first efforts to describe and summarize MIS issues in a complex manner in the NOWPAP region. However, future activities of the NOWPAP are recommended as desirable.

5. On the basis of the recommendations in this regional report, DINRAC secretariat suggested a table of possible work on MIS in 2011, as a framework of activities on MIS issue, for the initial and general views and consensus by DINRAC FPs. After a round of consultation, DINRAC FPs has generally agreed on a table of activities on MIS issue in 2011, including an Atlas of Marine Invasive Species in NOWPAP region. A series of such atlases has been published for the Mediterranean Sea.

6. Based on the consensus of DINRAC FPs, DINRAC secretariat proposes the following proposal for the Atlas of Marine Invasive Species in NOWPAP region, for the approval by the DINRAC FPs at its Ninth meeting.
II Objective

7. The objectives of this Atlas of Marine Invasive Species in NOWPAP region is to collect data and information on MIS in the NOWPAP region in a comprehensive way, and to disseminate this Atlas as wide as possible to promote data and information sharing among NOWPAP member countries, to promote public awareness and education, thus to contribute to addressing MIS problems in NOWPAP member countries.

III Contents of Work

8. In order to reach the objective of this proposal, the work will mainly include the following contents:

1) Design of the Atlas

   The Atlas will be designed according to normal practices to guarantee the demonstration of the MIS data and information in a uniform and scientific manner, to make the collection work easier and more convenient, and to make the Atlas reader-friendly.

2) Compilation of the Atlas

   Relevant data and information on MIS in the NOWPAP region will be collected according to the design of the Atlas, including pictures and texts.

3) Publication of the Atlas

   After the compilation is finished, the Atlas will be published in the form of CDs, and it will be put into the DINRAC website in an Atlas form to enable and facilitate data sharing and search by the public.

IV Allocation of Work and Budget

9. The whole work of the Atlas will be implemented by a leading expert with the assistance from national experts. The general allocation of work is suggested as following:

1) Recommending the Leading Expert and National Experts

   To do the work on this atlas, Dr. Konstantin A. Lutaenko had been recommended by DINRAC FPs together as the Leading Expert at the Ninth DINRAC Focal Points
Meeting, and one National Expert from each NOWPAP member state will be recommended by the DINRAC NFP from his/her country.

2) Design of the Atlas

The Leading Expert will propose a design of the Atlas, and invite comments from the Focal Points of DINRAC, RCU, etc., through DINRAC secretariat. After the approval of the design by DINRAC secretariat, the Leading Expert will finalize the design of the Atlas.

3) Compilation of the Atlas

The necessary data and information on MIS in the NOWPAP region will be collected by the Leading Expert and national experts according to the design of the Atlas. The Leading Expert will be responsible for putting all the data and information into the Atlas according to the designed form.

Concrete arrangement of work will be decided by the Leading Expert together with National Experts.

After the compilation is finished, the Leading Expert will submit the final electronic version of the Atlas to DINRAC secretariat.

4) Publication of the Atlas

The Atlas will be published by DINRAC secretariat in the form of CDs, and it will be put into the DINRAC website in an Atlas form by DINRAC secretariat.

5) Budget Allocation

The total budget for the work on the Atlas is estimated to be 26,000 USD, and the whole budget is suggested to be allocated in the following way:

- The Budget for the Leading Expert will be 5,000 USD.
- The Budget for each National Expert will be 5,000 USD and 20,000 USD in total.
- The Budget for the publication in the form of CDs will be 1,000 USD.
- DINRAC secretariat will take up the work on uploading the Atlas to its website without budget demand.
V Schedule of Work

10. Due to the time needed, the work would not be able to be completed during the 2010-2011 biennium and will be implemented during May, 2011-March, 2012. The proposed schedule, allocation of work and the budget are showed in the following table.

<table>
<thead>
<tr>
<th>No.</th>
<th>Contents of Work</th>
<th>Task Allocation</th>
<th>Schedule of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>2011</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>Design of the Atlas</td>
<td>DINRAC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Experts</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Agreement on the Design of the Atlas</td>
<td>Leading Expert</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MoU Signed between DINRAC and Experts</td>
<td>DINRAC FPs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RCU</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Compilation of the Atlas</td>
<td>Leading Experts</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Comments on and finalization of the Atlas</td>
<td>DINRAC FPs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RCU</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Publication of the Atlas in CDs</td>
<td>DINRAC</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Upload of the Atlas to the website</td>
<td>DINRAC</td>
<td></td>
</tr>
</tbody>
</table>

Note: Payments to the national experts will be made in two tranches, one upon the signing of the MoUs, and the other upon the completion of the final Atlas due in February 2012.
Annex IV

Adjusted DINRAC Workplan and Budget in 2011
ADJUSTED DINRAC WORKPLAN AND BUDGET IN 2011

1. Compared with the original DINRAC workplan in 2011 under the biennium workplan of DINRAC during 2010-2011 (see Annex I), and based on the general consensus among DINRAC FPs, there will be a few adjustments of the workplan in 2011, including: the work on the issue of Marine Invasive Species (MIS), the work on updating the Database on Coastal and Marine Nature Reserves in NOWPAP Region, and the work on updating the Meta-database on Contaminants and Nutrients in the coastal and Marine Environment.

2. According to the original DINRAC workplan in the 2010/2011 biennium, the development of a database of marine invasive species in NOWPAP region was generally agreed by the FPs of DINRAC to be one of the works of DINRAC in 2010. In 2010, through further consultation among the DINRAC FPs and with suggestions from RCU, in order to avoid overlap with other international databases, DINRAC FPs has generally agreed to change the original work plan of setting up a MIS database in 2010, and has generally agreed on a list of new activities on MIS issue to be carried out in 2011, including an International Workshop on MIS Problems in NOWPAP Region, an Atlas of Marine Invasive Species in NOWPAP Region, and development of public awareness-raising materials.

3. The new activities on MIS issue will be carried out according to the respective agreements made by DINRAC FPs at the Ninth DINRAC Focal Points Meeting.

4. According to the original DINRAC workplan in 2011, there would be work on updating the Database on Coastal and Marine Nature Reserves in NOWPAP Region and the work on updating the Meta-database on Contaminants and Nutrients in the Coastal and Marine Environment. However, since the update of these two databases has already been carried out in 2010, in the year of 2011 it is expected that there will not be remarkable changes in the real situation of the Coastal and Marine Nature Reserves and the metadata of Contaminants and Nutrients in the coastal and Marine Environment. After suggestions from DINRAC Secretariat, in 2010, DINRAC FPs agreed to cancel the update of the two databases in 2011, and the left budget of 3,000 USD will be available for the work on MIS issue.

5. Due to this adjustment of work, the original 30,000 USD budget for the work on MIS issue in 2010, together with the 3,000 USD budget originally allocated for the above-mentioned updating of the two databases, among which, 26,000 USD will be used for the compilation of an Atlas of MIS and publication in CDs, 3,000 USD for pamphlets on MIS, and 4,000 USD for upgrading of DINRAC website.

6. The other work in the original DINRAC workplan in 2011 had also been adjusted slightly, including reducing 1,000 USD from the 13,000 USD WebGIS budget and allocated it for the work on the Integration of the Regional Portal into DINRAC website.

7. The adjusted workplan, budget and timetable for the activities of DINRAC in 2011 are shown in the
following Table 1.

Table 1: Adjusted DINRAC Workplan and Budget in 2011

<table>
<thead>
<tr>
<th>Activities</th>
<th>Actions</th>
<th>Time of Completion</th>
<th>Adjusted Expenditure USD</th>
<th>Original Budget USD</th>
</tr>
</thead>
</table>
| **1** | Update, Maintenance and Enrichment of DINRAC website | - Website maintenance  
- Contents update  
- Web-Atlas of MIS | Regular | 6000 | 2000 |
| **2** | Update Communication between DINRAC and NOWPAP Members | - Update of information Resources;  
- Integration of the Portal into DINRAC website | Dec. 2011 | 3000 | 2000 |
| **3** | Organization of FPM | - Organization of the 9th Focal Points Meeting | Apr. 2011 | 25,000 | 25,000 |
| **4** | Update Database on Coastal and Marine Nature Reserves in NOWPAP Region | | | 0 | 2000 |
| **5** | Update Meta-database on Contaminants and Nutrients in the coastal and Marine Environment | | | 0 | 2000 |
| **6** | Investigation on alien species and its potential damage evaluation in NOWPAP Region | - Compilation of Atlas  
- Publication in CDs  
- Pamphlets | Dec. 2011 | 29,000 | 0 |
| **7** | GIS-based visualization of marine environmental data | - Webpage and interface modification;  
- GIS visualization of HNS data | Oct. 2011 | 12,000 | 13,000 |
| **8** | Increase Public Awareness about Marine Litter Problem by Developing and Distributing Promotional Materials | - Development of A Promotional Material on Marine Litter for Public Awareness | Jul. 2011 | 1500 | 1500 |
| **9** | Maintain and Update Marine Litter Data Based on Inputs by Member States and RACs | Regional marine litter monitoring data, national marine litter monitoring data, International Coastal Cleanup activities, etc; | Oct. 2011 | 2000 | 2000 |
| **10** | Travel | Official travel | 2011 | 2000 | 2000 |
| **11** | Miscellaneous | Publications Communications | 2011 | 5000 | 5000 |
| **Total** | | | | **85,500** | **56,500** |

* 21,000 USD allocated for the workshop of MIS in the original budget was allocated to the compilation of Atlas in the adjusted workplan.
Annex V

Annual Summary of Major Marine Environmental Data Available in NOWPAP Member States
Table of Contents

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II  Objective ...........................................................................................................................................2
III  Contents of Work .............................................................................................................................3
IV  Allocation of Work, Budget and Schedule .......................................................................................3
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Annex 2: Draft Data Collection Form for the Annual Summary of Major Marine Environmental Data from Public Official Documents .........................................................................................7
Annual Summary of Major Marine Environmental Data Available in Member States

I Background

1. One of the major functions of DINRAC is to promote the exchange of information on marine and coastal environmental data among NOWPAP member countries. In order to accomplish this function, DINRAC as well as other Regional Activities Centers of NOWPAP have been collecting and disseminating marine environmental data on such issues as marine litter, land source contaminants, marine protected areas, etc, in the past years. This has promoted the exchange of data and information to a certain extent.

2. Up to today, the RACs of NOWPAP have been collecting marine environmental data and made some progress. POMRAC published a report on the state of environment in the NOWPAP region in 2007, mainly covering Harmful Algal Blooms, river and direct inputs of contaminants, hazardous and noxious substance, persistent toxic substances, biodiversity, aquaculture and microbiological pollution, marine invasive species, etc, and repots on river and direct inputs of contaminants in 2006 and 2009; MERRAC has been collecting information on oil spill accidents, hazardous and noxious substance spill accidents; in 2005, CEARAC summarized the information on Harmful Algal Blooms (Red Tide or toxin-producing plankton) occurrence in the member states and published the National Report and the Integrated Report on HABs to understand current situations; DINRAC had been collecting data on marine invasive species in 2010; RCU and the all the RACs have been collecting data on marine litter.

3. According to the current situation of NOWPAP data collection, there is already regular collection of data and databases on marine litter, oil spill accidents, hazardous and noxious substance spill accidents, and sporadic collection of data on marine protected areas, Harmful Algal Blooms, river and direct input of pollutants, waste dumping. There is still no collection of data on atmospheric deposition of pollutants, sea water quality and major sea water pollutants, and quality of bottom sediments. The current situation of data collection and needs for further work are shown in the following Table 1.

<table>
<thead>
<tr>
<th>Data Category</th>
<th>Data</th>
<th>Database</th>
<th>Frequency of</th>
<th>Latest Data</th>
</tr>
</thead>
</table>

Table 1 Current Status of NOWPAP Data Collection
## Update

<table>
<thead>
<tr>
<th>Issue</th>
<th>Yes</th>
<th>No</th>
<th>Frequency</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Protected Area</td>
<td>Y</td>
<td>Y</td>
<td>Sporadic</td>
<td>2010/2011</td>
</tr>
<tr>
<td>Marine Litter</td>
<td>Y</td>
<td>Y</td>
<td>Annually</td>
<td>2010</td>
</tr>
<tr>
<td>Oil Spill</td>
<td>Y</td>
<td>Y</td>
<td>Annually</td>
<td>2010</td>
</tr>
<tr>
<td>Hazardous and Noxious Substance Spill</td>
<td>Y</td>
<td>Y</td>
<td>Annually</td>
<td>2010</td>
</tr>
<tr>
<td>Harmful Algal Bloom</td>
<td>Y</td>
<td>N</td>
<td>Sporadic</td>
<td>2005</td>
</tr>
<tr>
<td>River and Direct Inputs</td>
<td>Y</td>
<td>N</td>
<td>Sporadic</td>
<td>2007</td>
</tr>
<tr>
<td>Waste Dumping</td>
<td>Y</td>
<td>N</td>
<td>Sporadic</td>
<td>2007</td>
</tr>
<tr>
<td>Atmospheric Deposition</td>
<td>N</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Water Quality and Major Sea Water Pollutants</td>
<td>N</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom Sediments Quality</td>
<td>N</td>
<td>N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Y=Yes, N=No.

4. It will be very useful to provide more data for member countries of NOWPAP in a timelier manner, such as sea water quality, major sea water contaminants, land-source contaminants, etc, thus to know more about each other and learn from each other, and to have a good knowledge basis for further cooperation. Based on the current situation, regular collection of data may include: 1. Harmful Algal Blooms, 2. river and direct input of pollutants, 3. waste dumping, 4. atmospheric deposition of pollutants, 5. sea water quality and major sea water pollutants, 6. quality of bottom sediments and major pollutants.

5. Because of the issues of confidentiality, availability and cost of relevant data, there has been and would be difficulties in collecting such data and information. However, each member countries of NOWPAP may have their own public reports or other public documents on the state marine environmental at national level and local levels. There could be useful data in these documents that can be collected, summarized in a practical manner, and exchanged among the member countries.

6. Since many reports and documents may be published in the member countries on an annual basis, and member countries might have needs to get these data in a continuous manner, it would be better to collect the major data from these documents also annually, thus to provide constant and timely data for exchange among member countries.

## II Objective

7. The objective of Annual Collection of Major Marine Environmental Data from Public Official Documents in NOWPAP Member Countries is to promote information exchange and mutual learning of marine environmental data among the member countries of NOWPAP, thus to assist the member countries to better understand the marine environmental protection efforts taken by each other, and to contribute to marine environmental protection in the
III Contents of Work

8. In order to reach the objective, the work will mainly include the following contents:

1) Discussion and design of the Data Collection Framework, Data Collection Form and detailed items of the data to be collected from the public official reports and documents in the member countries.

2) Annual collection of data and information according to the designed Data Collection Framework and Data Collection Form.

3) Organize these data by different categories; upload them to the website of DINRAC in the form of databases for public access and dissemination of the data in hard copies.

IV Allocation of Work, Budget and Schedule

9. The work is will be carried out on an annual basis. The total budget is estimated to be 16,000 USD for 2012 and 4,000 USD for 2013. The detailed schedule, allocation of work and budget plan are as follows:

1) Discussion and design of the framework and detailed items of the data and information (2011)

The design of the framework and detailed items need to be discussed and agreed by DINRAC FPs. A tentative Data Collection Framework (Annex 1) and Data Collection Form (Annex 2) had been generally agreed by the Ninth DINRAC Focal Points Meeting. The Data Collection Framework and the Data Collection Form may be revised and upgraded in the following years as necessary.

2) Annual collection of data according to the designed framework and Data Collection Form (March-August 2012 and March-August 2013)

DINRAC FPs or the Nation Experts designated by FPs would carry out this task. The budget for this task in 2012 is estimated to be 3,000 USD for each country, 2,000 USD for the Leading Expert and 14,000 USD in total. The budget for this task in 2013 is estimated to be 1,000 USD for each country, and 4,000 USD in total.

3) Organize these data by different categories; upload them to the website of DINRAC
in the form of databases for public access and dissemination of the data in hard copies. (September-October 2012 and September-October 2013)

DINRAC secretariat would carry out this task. The budget for the dissemination of the data in hard copies is estimated to be 2,000 USD in 2012.

10. The following is a table of the schedule, allocation of work and budget plan.
<table>
<thead>
<tr>
<th>No.</th>
<th>Contents of Work</th>
<th>Task Allocation</th>
<th>Budget USD</th>
<th>2011 Schedule of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Discussion and design of the framework and detailed items of the data</td>
<td>FPs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Signing MOUs</td>
<td>DINRAC FPs or Experts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Annual collection of data</td>
<td>FPs or Experts</td>
<td>14,000 in 2012</td>
<td>4,000 in 2013</td>
</tr>
<tr>
<td>4</td>
<td>Upload data to the website and dissemination</td>
<td>DINRAC</td>
<td>2,000 in 2012</td>
<td></td>
</tr>
</tbody>
</table>
Annex 1: Draft Data Collection Framework for the Annual Summary of Major Marine Environmental Data from Public Official Documents

<table>
<thead>
<tr>
<th>Data Category</th>
<th>Geographical Coverage of Data</th>
<th>Source of Data</th>
<th>Frequency of Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Occurrence of Harmful Algal Bloom (through cooperation with CEARAC)</td>
<td>Sea Areas in NOWPAP region</td>
<td>Public Official Documents in Member states and other published sources</td>
<td>Annually</td>
</tr>
<tr>
<td>2 River Inputs of Pollutants (through cooperation with POMRAC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Direct Inputs of Pollutants (through cooperation with POMRAC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Waste Dumping</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Atmospheric Deposition of Pollutants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Sea Water Quality and Major Sea Water Pollutants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Bottom Sediments Quality and Major Pollutants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Other relevant data</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annex 2: Draft Data Collection Form for the Annual Summary of Major Marine Environmental Data from Public Official Documents

<table>
<thead>
<tr>
<th>Data Category</th>
<th>Data Items</th>
<th>Data Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Sea Water Quality and Major Sea Water Pollutants</td>
<td>Sea Area</td>
<td>Overall Quality</td>
</tr>
<tr>
<td></td>
<td>Sea Area 1</td>
<td>Sea Area 2</td>
</tr>
<tr>
<td></td>
<td>Sea Area X</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2  Quantity of River Inputs of Pollutants</td>
<td>River Name</td>
<td>Major Pollutant 1</td>
</tr>
<tr>
<td></td>
<td>River 1</td>
<td>Quantity or trend</td>
</tr>
<tr>
<td></td>
<td>River 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>River x</td>
<td></td>
</tr>
<tr>
<td>3  Quantity of Direct Inputs of Pollutants</td>
<td>Sea Area</td>
<td>Quantity of Waste Water</td>
</tr>
<tr>
<td></td>
<td>Sea Area 1</td>
<td>Quantity of trend</td>
</tr>
<tr>
<td></td>
<td>Sea Area 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sea Area X</td>
<td></td>
</tr>
<tr>
<td>4  Waste Dumping</td>
<td>Sea Area</td>
<td>Number of Dumping Sites</td>
</tr>
<tr>
<td></td>
<td>Sea Area 1</td>
<td>Number of Dumping Sites</td>
</tr>
<tr>
<td>Sea Area</td>
<td>Major Pollutant 1</td>
<td>Major Pollutant 2</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Sea Area 1</td>
<td>Trend or quantity</td>
<td></td>
</tr>
<tr>
<td>Sea Area 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Area X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea Area</th>
<th>Number of occurrence</th>
<th>Total Area m²</th>
<th>Major Causative Organisms</th>
<th>Major Locations</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sea Area 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Area 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Area X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea Area</th>
<th>Overall quality</th>
<th>Types of Major Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sea Area 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Area 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Area X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annex VI

Summary of the Policies and Measures for the Prevention of Coastal and Marine Pollution in NOWPAP Member States
Table of Contents

I  Background ........................................................................................................................................... 1
II  Objective ............................................................................................................................................... 1
III Contents of Work ................................................................................................................................... 2
IV  Allocation of Work, Budget and Schedule ......................................................................................... 2
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Annex 2: Draft Template for the Summary of Policies and Measures ..................................................... 5
Summary of the Policies and Measures for the Prevention of Coastal and Marine Pollution in NOWPAP Member States

I Background

1. Although different countries or organizations have different understanding of the meaning of policies and measures, it normally refers to public policies and measures, and means a combination of instruments and actions taken by the government to achieve certain targets on a certain issue, including laws, regulations, government rules, decisions and actions, etc.

2. In NOWPAP region, all the NOWPAP member states have been making public policies and taking measures for the prevention and control of marine pollution. Due to the different national circumstances and marine environmental situation, the policies and measures of the member states at a certain time might be different, and the effects of those policies and measures might also be different. For instance, NOWPAP countries might have different levels of marine pollution and therefore different targets for marine pollution reduction. Meanwhile, NOWPAP member states might also have similar types of policy instruments and measures, such as regulations, plans, emergent decisions, and these policies and measures can have similar characters, such as financial policies like fees, fines, taxes, prohibitory policies and measures like bans, mandatory policies like the obligatory requirements on reporting, etc.

3. Because of the differences and similarities among the NOWPAP countries, and because of the common marine environment, it would be useful to facilitate exchange of information on the policies and measures for the prevention of coastal and marine pollution in NOWPAP Countries, thus the member states may get more information about the latest situation and progress of marine environmental protection of each other, and learn from each other.

4. During the past, NOWPAP had made some reports that included information about the policies and measures on specific issues, such as marine litter, marine invasive species, marine protected area, etc, which focused more on long-term regulations or institutional setup, and less on other policy instruments and measures, such as planning, government decisions, and government actions like establishment marine function zones, bans or fines on polluters, etc, while the member states are also very interested in these information from each other, and these information is also very useful for mutual learning. Therefore, it is meaningful to facilitate such exchange of information through summary of the policies and measures.

II Objective

5. The objectives of the summaries the policies and measures for the prevention of coastal and marine pollution in NOWPAP member states is to promote the exchange of information on
policies and measures among NOWPAP member states regarding the prevention and control of coastal and marine pollution, thus to enable NOWPAP member states know more about each other and learn from each other.

III  Contents of Work

6. In order to reach the objective, the work will mainly include the following contents:

1) Design of the Template for the Summary of Policies and Measures

   In order for easy and clear understanding of the summaries, it is necessary to design a template for the summary of policies and measures, which is also to make the summary work easier and more convenient, and to make the summary reader-friendly.

2) Summarization of Policies and Measures

   Latest policies and measures in the member states will be summarized according to the designed template.

3) Upload of the Summary to the Website and Dissemination of the Summaries

   After the summarization of each policy or measure is finished and submitted to DINRAC Secretariat, it will be organized by different categories and uploaded to the website of DINRAC in the form of databases. All the summaries will be published in hard copies and disseminated to relevant stakeholders.

IV  Allocation of Work, Budget and Schedule

7. The work will to be carried out in 2013. The total budget is estimated to be 16,000 USD. The detailed schedule, allocation of work and budget are as follows:

1) Design of the template for the summary of policies and measures (2011)

   The design of the template for the summary of policies and measures need to be discussed and agreed by DINRAC FPs. A tentative scope of the summaries of policies and measures (Annex 1) and a tentative template (Annex 2) had been generally agreed by the Ninth DINRAC Focal Points Meeting. The template may be revised and upgraded in the following years as necessary.

2) Establishment of strategies for collection of information (2012)
Discussion on the strategies will be done in the Tenth DINRAC FPM.

3) Summarization of policies and measures (March-October, 2013)

DINRAC FPs or national experts would carry out this task. The budget for this task is estimated to be 3,000 USD for each country, 2,000 for the leading expert and 14,000 USD in total.

4) Upload of the summary to the DINRAC website and dissemination of the summaries. (November, 2013)

DINRAC secretariat would carry out this task. The budget for the publication and dissemination of the summaries is estimated to be 2,000 USD.

8. The following is a table of the schedule, allocation of work and budget plan.

Table 1 Schedule, Allocation of Work and Budget Plan

<table>
<thead>
<tr>
<th>No.</th>
<th>Contents of Work</th>
<th>Task Allocation</th>
<th>Budget USD</th>
<th>Schedule of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Design of the Template</td>
<td>FPs</td>
<td></td>
<td>1-2 3-10 11</td>
</tr>
<tr>
<td>2</td>
<td>Establishment of strategies for collection of information</td>
<td>DINRAC FPs</td>
<td></td>
<td>1-2 3-10 11</td>
</tr>
<tr>
<td>3</td>
<td>Signing MOUs</td>
<td>DINRAC FPs or Experts</td>
<td></td>
<td>1-2 3-10 11</td>
</tr>
<tr>
<td>4</td>
<td>Summarization of Policies and Measures</td>
<td>FPs or Experts</td>
<td>14,000</td>
<td>1-2 3-10 11</td>
</tr>
<tr>
<td>5</td>
<td>Upload of the summary to DINRAC website and dissemination of the Summaries</td>
<td>DINRAC</td>
<td>2,000</td>
<td>1-2 3-10 11</td>
</tr>
</tbody>
</table>
Annex 1: Tentative Scope of the Summaries of Policies and Measures

1. Central and local Laws, regulations or policies related to marine environmental protection and biological conservation in NOWPAP region

2. Central and local government strategies or plans related to marine environmental protection and biological conservation in NOWPAP region

3. Central and local government decision related to marine environmental protection and biological conservation in NOWPAP region

4. Central and local government reports on the latest progresses or difficulties in implementing the laws, regulations, policies or decisions related to marine environmental protection and biological conservation in NOWPAP region

5. Central and local government measures and activities related to marine environmental protection and biological conservation in NOWPAP region, such as the launch of various kinds of big projects

6. Central and local government reports on the latest progresses or difficulties in implementing the measures and activities related to marine environmental protection and biological conservation in NOWPAP region

7. Review or commentary of the above-mentioned policies and measures by researchers, academics or news media
## Annex 2: Draft Template for the Summary of Policies and Measures

<table>
<thead>
<tr>
<th>Summary No.</th>
<th>Country-Year-Number (Example: Korea-2012-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of the Policy or Measure</td>
<td>Government plans, major decisions, activities, etc.</td>
</tr>
<tr>
<td>Date of Start/Entry into Force</td>
<td></td>
</tr>
<tr>
<td>Duration of Implementation/Action</td>
<td></td>
</tr>
<tr>
<td>Main Objectives</td>
<td>Within 50 words</td>
</tr>
<tr>
<td>Main Contents of the Policy or Measure</td>
<td>Within 500 words</td>
</tr>
<tr>
<td>Expected Results of the Policy or Measure</td>
<td>Within 100 words</td>
</tr>
<tr>
<td>Latest progress or difficulties reported by government</td>
<td></td>
</tr>
<tr>
<td>Major conclusions or points of the review or commentary made by researchers, academics or news media</td>
<td></td>
</tr>
<tr>
<td>Author of the Summary</td>
<td></td>
</tr>
<tr>
<td>Time of Summary</td>
<td></td>
</tr>
</tbody>
</table>


Annex VII

Overall DINRAC Workplan and Budget for the 2012 2013 Biennium
Overall DINRAC Workplan and Budget for the 2012-2013 Biennium

I Overview

1. As the workplan and budget for the 2010-2011 biennium will be completed, the Ninth DINRAC Focal Points Meeting prepared the DINRAC workplan and budget for the biennium 2012-2013, prior to the Sixteenth Intergovernmental Meeting to be held in 2011 in China.

2. DINRAC activities focused on those areas which could be the most beneficial in achieving the mission of NOWPAP DINRAC.

3. The tentative total budget of DINRAC for the 2012-2013 biennium is 112,000 USD, with allocation suggested for each activity (see Table 1).
Table 1 The overall DINRAC workplan and budget for the 2012-2013 biennium

<table>
<thead>
<tr>
<th>Activities</th>
<th>Actions</th>
<th>Tentative Time</th>
<th>Tentative Budget USD</th>
</tr>
</thead>
</table>
| Update, maintenance and enrichment of DINRAC website (continue)   | Maintenance of the website system, including webpage interfaces, database system, etc.  
|                                                                  | Daily update of website contents, including news, events, information resources, etc. | 2012-2013      | 6,000 6,000          |
| Organization of FPM                                               | Organization of the 10th DINRAC Focal Points Meeting  
|                                                                  | Organization of the 11th DINRAC Focal Points Meeting | 2012-2013      | 25,000 25,000        |
| Cooperation, communication on DINRAC activities                   | Coordination  
|                                                                  | Travel  
|                                                                  | Meetings  
|                                                                  | Communication  
|                                                                  | Publications | 2012-2013      | 5,000 5,000          |
| Publication of the Atlas of Marine Invasive Species in the NOWPAP Region | Publication in hardcopies  
|                                                                  | Dissemination of the hardcopies | 2012          | 4,000 0              |
| Annual summary of major marine environmental data available in member states | Annual summary of major marine environmental data from publicly available documents in member states, including sea water quality and major sea water pollutants, river and direct inputs of pollutants, waste dumping, atmospheric deposition of pollutants, bottom sediments quality and major pollutants  
|                                                                  | Upload of the data into databases | 2012-2013      | 16,000 4,000         |
| Summary of the policies and measures for the prevention of coastal and marine pollution in member states | Summary of major national and local policies and measures in NOWPAP member states  
|                                                                  | Upload of the summaries of policies and measures into databases | 2013          | 0 16,000             |
| **Total**                                                         |                                                                       |                | 56,000 56,000        |
II Activities and Budget

4. **Update, maintenance and enrichment of DINRAC website continue**
   The DINRAC Website will be continuously updated, maintained and enriched in the 2012-2013 biennium, including maintenance of the website system, such as webpage interfaces, database system, etc, and daily update of website contents, such news, events, information resources, etc. The DINRAC website was envisioned as primary source of environmental data and information for the NOWPAP region and also as a Clearing-House to provide links to other RACs, the related regional and international organizations and national website of member countries.

   Budget: 6,000 USD for each year in the 2012-2013 biennium.

5. **Organization of Focal Points Meetings**
   The Tenth DINRAC Focal Points Meetings will be held in late May of 2012, and the Eleventh DINRAC Focal Points Meetings will be held in late May of 2013. The venue of the Meetings will be held in China, unless other member countries request to host the meeting.

   Budget: 25,000 USD for convening each of the Focal Points Meeting
   (two Focal Points and one expert from each of NOWPAP member states and one representative of other RACs will be funded by meeting budget)

6. **Cooperation, communication of DINRAC activities**
   DINRAC will continuously carry out the activities relating to the coordination with NOWPAP RCU and RACs, UNEP and other Regional Seas.
   The director or the representative of DINRAC will participate in the Intergovernmental Meetings to report DINRAC activities to the meetings.
   DINRAC will also maintain contacts with other relevant programs for cooperation.

   Budget: Travel on official business: 2,000 USD for each year.
   Publication, communication and others: 3,000 USD for each year.

7. **Publication of the Atlas of Marine Invasive Species in NOWPAP Region**
   In 2011, DINRAC will compile an Atlas of Marine Invasive Species in NOWPAP Region and publish it in the form of CDs. Due to budget constraint, DINRAC will not be able to publish the Atlas in the form of hard copies in 2011, which was agreed by DINRAC FPs to be carried out in 2012.

   Budget: 4,000 USD for publishing the Atlas in the form of hard copies.
8. Annual summary of major marine environmental data available in member states

It will be very useful to provide more data for member countries of NOWPAP in a timelier manner, such as sea water quality, major sea water contaminants, land-source contaminants, etc, thus to know more about each other and learn from each other, and to have a good knowledge basis for further cooperation. Since many reports and documents may be published in the member countries on an annual basis, and member countries might have needs to get these data in a continuous manner, it would be better to collect the major data from these documents also annually, thus to provide constant and timely data for exchange among member countries.

Expected outcomes from this activity include:

A. Annual summary of major marine environmental data from publicly available documents in member states, including sea water quality and major sea water pollutants, river and direct inputs of pollutants, waste dumping, atmospheric deposition of pollutants, bottom sediments quality and major pollutants

B. Upload of the data into databases on the website of DINRAC and dissemination

Budget: Total 16,000 USD is suggested to implement this activity for 2012. 3,000 USD will be allocated for each member state, 2,000 USD for the leading experts and 2,000 USD for dissemination in hard copies. In 2013, 4,000 USD is suggested to implement this activity, and 1,000 USD will be allocated for each member state.

9. Summaries of the policies and measures for the prevention of coastal and marine pollution in member states

Because of the differences and similarities among the NOWPAP countries, and because of the common marine environment, it would be useful to facilitate exchange of information on the policies and measures for the prevention of coastal and marine pollution in NOWPAP Countries, thus the member states may get more information about the latest situation and progress of marine environmental protection of each other, and learn from each other. During the past, NOWPAP had made some reports that included information about the policies and measures on specific issues, such as marine litter, marine invasive species, marine protected area, etc, which focused more on long-term regulations or institutional setup, and less on other policy instruments and measures, such as planning, government decisions, and government actions like establishment of marine function zones, bans or fines on polluters, etc, while the member states are also very interested in these information from each other, and these information is also very useful for mutual learning. Therefore, it is meaningful to facilitate such exchange of information through summary of the policies and measures. Expected outcomes from this activity include:

A. Summary of major national and local policies and measures in NOWPAP member states

B. Upload of the summaries of policies and measures into databases on the website of DINRAC and dissemination
Budget: Total 16,000 USD is suggested to implement this activity in 2013, with 3,000 USD for each member state, 2,000 USD for the leading expert and 2,000 USD for dissemination in hard copies.