

NOWPAP POMRAC



**Northwest Pacific Action Plan
Pollution Monitoring Regional Activity Centre**

**7 Radio St., Vladivostok 690041, Russian Federation
Tel.: 7-4232-313071, Fax: 7-4232-312833
Website: <http://www.pomrac.dvo.ru>**

Report of the 1st Joint Meeting of NOWPAP POMRAC Working Groups:

**WG 1 - Atmospheric Deposition of Contaminants into the Marine and
Coastal Environment**

and

**WG 2 - River and Direct Inputs of Contaminants into the Marine and
Coastal Environment**

POMRAC, Vladivostok, Russian Federation

24-25 May 2004

REPORT OF THE 1ST JOINT MEETING OF NOWPAP POMRAC WORKING GROUPS:

WG 1 - Atmospheric Deposition of Contaminants into the Marine and Coastal Environment

and

WG 2 - River and Direct Inputs of Contaminants into the Marine and Coastal Environment

(Vladivostok, Russian Federation, 24-25 May 2004)

Background

1. The 7th Intergovernmental Meeting of NOWPAP (Vladivostok, 20-22 March 2002), decided that POMRAC would be responsible for two working groups: WG 1 - Atmospheric Deposition of Contaminants into the Marine and Coastal Environment ; and WG 2 – River and Direct Inputs of Contaminants into the Marine and Coastal Environment (document UNEP/NOWPAP IG.7/8).
2. The 1st Focal Points Meeting of POMRAC (Vladivostok, Russia, 9-11 April 2003) decided that the main task of WG 1 and WG 2 should be to establish regional assessment programs to evaluate the - i) atmospheric deposition of contaminants; and ii) river and direct inputs of contaminants into the marine and coastal environment in NOWPAP region, respectively.
3. The 1st Focal Points Meeting of POMRAC also decided that the Working Groups should be established and meet during 2004. Upon the request of POMRAC and UNEP secretariat, the NOWPAP Focal Points together with the POMRAC Focal Points in Four NOWPAP Members: People's Republic of China, Japan, Republic of Korea and Russian Federation (hereinafter referred to as China, Japan, Korea, Russia, respectively) nominated national experts and scientists from the relevant fields to represent their countries in the First Joint Meeting of NOWPAP POMRAC Working Groups.
4. The 1st Focal Points Meeting of POMRAC also decided that the main objectives of WG 1 and WG 2 (respectively) would be:
 - (a) Exchange information to ensure practical implementation of activities related to the monitoring of atmospheric deposition / river and direct inputs in the NOWPAP region.
 - (b) Promote, coordinate and harmonize regional cooperation in the NOWPAP region related to the monitoring of atmospheric deposition / river and direct inputs into the coastal and marine environment.
5. The representatives of NOWPAP Members, China, Japan, Korea and Russia participated in the First Joint Meeting of NOWPAP POMRAC Working Groups, which was organized by POMRAC and took place in Vladivostok, Russian Federation, 24-25 May 2004. The representative of United Nations Environment Programme (UNEP), acting as NOWPAP interim secretariat also participated in the meeting. The representatives of other two NOWPAP Regional Activity Centres (RACs), Data and Information Network Regional Activity Centre (DINRAC), Pollution and Special Monitoring & Coastal Environmental Assessment Regional Activity Center (CEARAC), participated in the meeting as observers. A full list of participants is

Annex 1 attached to the present report. POMRAC and UNEP acted as a secretariat for the meeting.

Agenda item 1 and 2 – Opening and Organization of the meeting

6. The meeting was opened at 10:00 a.m. at POMRAC (Vladivostok) on 24 May 2004 by Dr. Anatoly Kachur, Director of POMRAC. At the opening remarks, Dr. Kachur expressed his thanks to UNEP and NOWPAP Members for their support to the POMRAC activities and welcomed the participants to Vladivostok at the present meeting. He also gave a brief presentation on the way the meeting would be organized. The participants of the meeting briefly introduced themselves.

7. Dr. Elik Adler, UNEP's Interim Coordinator for NOWPAP and Regional Seas Coordinator, welcomed the participants and explained the main objectives of the first joint meeting of the two working groups of POMRAC and suggested some minor amendments to the agenda and timetable. He also suggested that Mr. Anatoly Kachur would serve as a chairman for the meeting while the two Working Groups would meet in plenary.

8. The Director of POMRAC presented a provisional list of documents, as enclosed as **Annex 2**, noting that additional documents would be submitted during the meeting.

9. Following consultations with the participants the meeting agreed that the Chairperson for WG 1 (Atmospheric Deposition) would be Dr. Hiroshi Hara of Japan and the Chairperson for WG 2 (River and Direct Inputs) would be Dr. Hak Gyoon Kim of Korea. The meeting also agreed that the duty of the chairpersons for the Working Groups would be performed on a rotational basis.

Agenda item 3 – Adoption of the Agenda

10. Dr. Kachur and Dr. Adler presented the amended agenda (**Annex 3**) and timetable (**Annex 3.1**). The meeting agreed that parts of the activities would be carried out by separate sessions of the Working Groups and parts of the work would be carried out in plenary. The meeting approved the amended agenda and timetable.

Agenda item 4 – Presentation of UNEP

11. Dr. Adler of UNEP gave a presentation on the Regional Seas Programme on the progress made by NOWPAP during the last years. He also informed the participants on the preparations to establish the NOWPAP RCU.

Agenda item 5 – Discussion on the Terms of Reference for NOWPAP POMRAC WG1 and WG2

12. The meeting worked in plenary and discussed the two draft documents (UNEP/NOWPAP/POMRAC/WG1 1/4 and UNEP/NOWPAP/POMRAC WG 2 1/4) "Terms of Reference for NOWPAP POMRAC WG1 and WG2" (respectively). The meeting decided to discuss in plenary the two documents, in order to harmonize the Terms of Reference of the two WGs. The meeting also decided that the chapter "Tasks" for each Terms of Reference would be discussed carefully in the WGs separate sessions, as this chapter was more specific to each group.

13. After lengthy discussions in both plenary and WG separate sessions the meeting agreed on the final draft text of the two following documents:

- Terms of Reference for NOWPAP POMRAC Working Group 1 - Atmospheric Deposition of Contaminants into the Marine and Coastal Environment in NOWPAP Region (UNEP/NOWPAP/POMRAC WG 1 1/4), enclosed as **Annex 4** to this meeting report.
- Terms of Reference for NOWPAP POMRAC Working Group 2 – River and Direct Inputs of Contaminants into the Marine and Coastal Environment in NOWPAP Region (UNEP/NOWPAP/POMRAC WG 2 1/4) enclosed as **Annex 5** to this meeting report.

14. The meeting agreed to submit the two draft documents for the approval of the 2nd NOWPAP POMRAC Focal Points Meeting.

15. Following the discussion held in the separate session of WG 2, the WG decided to consult with the 2nd NOWPAP POMRAC Focal Points Meeting as to the definition of “River and Direct Inputs” and to receive clear guidance as to the scope of this activity.

Agenda Item 6 - Overview of existing activities and future plans regarding monitoring of atmospheric input in NOWPAP Member States

16. During the separate work of WG 1, National Experts from China, Japan, Korea and Russia presented their respective national reports and overviews of existing activities and future plans regarding monitoring of atmospheric input in NOWPAP region to Working Group 1. The national reports are enclosed on a CD to this meeting report.

Agenda Item 7 - Overview of existing activities and future plans regarding monitoring of river and direct inputs in NOWPAP Member States

17. During the separate work of WG 2, National Experts from China, Japan, Korea and Russia presented their respective national reports and overviews of existing activities and future plans regarding river and direct inputs in NOWPAP region to Working Group 2. The national reports are enclosed on a CD to this meeting report.

Agenda Item 8 - Review of the proposed structure and content of National Reports for WG 1 and WG 2.

18. The two Working Groups reviewed separately the two respective documents (UNEP/NOWPAP/POMRAC WG 1 1/5 and UNEP/NOWPAP/POMRAC WG 2 1/5) containing the draft proposals for the structure and content of the National Reports which would be compiled during 2004 and early 2005 by national experts, hired as consultants by POMRAC, through guidance of the National Focal Points (detailed procedure is given in point 26 below).

19. The two working groups worked on the draft content and structure of the national reports and felt that more consultations had to be carried out in plenary. The draft results of the two WGs were further discussed in plenary.

20. Following further discussions held in plenary, the meeting agreed on the content of the two respective national reports:

- Structure and content of national reports of NOWPAP Members on atmospheric deposition of contaminants into the marine and coastal environment in NOWPAP region (UNEP/NOWPAP/POMRAC WG 1 1/5), is enclosed as **Annex 6** to this meeting report.
- Structure and content of national reports of NOWPAP Members on river and direct inputs of contaminants into the marine and coastal environment in NOWPAP region (UNEP/NOWPAP/POMRAC WG 2 1/5), is enclosed as **Annex 7** to this meeting report.

Agenda Items 9 and 10 - Discussions on the work plans for 2004/5 and discussion on the results of the work of WG 1 and WG 2

21. The chairperson of WG 1, Dr. Hiroshi Hara and the chairperson of WG 2 Dr. Hak Gyoon Kim presented the results of their respective Working Groups to the meeting in plenary. The chairpersons and other members of the Working Groups also shared with the meeting problems and questions that were raised during their respective separate discussions. As a result, the meeting decided to introduce some additional amendments to both the Terms of Reference of the WGs and to the Structure and Contents of the National Reports of both activities.

22. One important issue that was discussed in length was the definition of "River and Direct Inputs" which was raised during the separate discussions of WG 2. After a lengthy discussion the meeting decided to adopt the following definition:

"River and Direct Inputs" refers to all inputs of contaminants from land based sources and activities including, inter alia:

- Rivers input
- Municipal wastewater
- Industrial wastewater
- Non points sources (such as agricultural runoff)
- Marine Dumping (from LBS and Dredging)".

23. Following a discussion on the future activities of the Working Groups, the meeting decided that the two groups would be engaged during 2004/5 biennium, and possibly even during the early stage of the next biennium in the activities which were specified under the Terms of Reference of both WGs. The meeting also decided that the respective activities of both Working Groups would serve as the base for POMRAC activities during the 2004/5 biennium.

24. Namely, the meeting agreed that the main activities for WG 1 (Atmospheric Deposition) would consist of the following elements:

1. Review and assess existing national and regional programmes and systems, which may be used for the evaluation of the atmospheric deposition of contaminants into the marine and coastal environment.
2. Review the national monitoring data as well as scientific data and models for the evaluation of the atmospheric deposition of contaminants into the marine and coastal environment.
3. Discuss regional strategies and priorities for the monitoring and evaluation of atmospheric deposition of contaminants in the region.
4. Identify the monitoring parameters and data to be used in order to link land-based data to atmospheric deposition into the marine and coastal environment.
5. Discuss the further development of a monitoring system for atmospheric deposition into marine and coastal environment, including marine-based measurements/observations.
6. Identify and cooperate with potential partners, organizations and/or programs, which may operate in the related fields.
7. Discuss the development of data and information sharing and exchange mechanisms within NOWPAP members and the related partners.
8. Discuss the development of the capacity building measures and public outreach products.
9. Assist in the preparation of detailed national reports.
10. Prepare a regional overview based on the national reports.
11. Participate and contribute to a regional assessment of the state of marine and coastal environment in the NOWPAP region.

25. The meeting also agreed that the main activities for WG 2 (River and Direct Inputs) would consist of the following elements:

1. Compilation and exchange of national reports based on a format agreed upon by POMRAC Focal Points Meeting.
 2. Review of the national reports.
 3. Preparation of the regional overview (consultancy).
 4. Identification of gaps and needs.
 5. Publication of national reports.
 6. Publication of regional overview.
 7. Identification and prioritization of required activities under this working group.
26. The proposed procedure for preparing the National Reports and the Regional Overview/Assessment would be as follows:
1. The National Reports will be compiled and written based on the 'Structure and Contents of National Reports' agreed upon by the 2nd NOWPAP POMRAC Focal Points meeting.
 2. The National Reports will be prepared by either the POMRAC Focal Points assisted by National Experts, or directly by National Experts hired by POMRAC. Financial support for the preparation of the National Reports will be provided by POMRAC, according to guidance of POMRAC FPs.
 3. The draft National Reports will be submitted to POMRAC secretariat by POMRAC Focal Points (after review and approval of the work of the National Experts) no later than the 1st of February 2005. WGs members from each country may be involved in the preparation of the draft National Reports.
 4. An experienced consultant from the region, hired by POMRAC, will conduct a preliminary compilation and harmonization of the four National Reports and will also provide a short introduction and summary.
 5. Draft National Reports (including the short introduction and summary) will be submitted to the WGs and POMRAC Focal Points by e-mail, no later than 1st March 2005. After receiving comments from WGs and POMRAC FPs (within 30 days), the reports will be amended by the consultant and submitted to the POMRAC FPs Meeting, planned for May 2005, for review and adoption.
 6. The next POMRAC FPM (May 2005) will discuss and agree whether the National Reports are completed. When finalized, the National Reports will be printed as a POMRAC technical report.
 7. The FPM will also discuss and agree on the structure, content, scope and sources of information of the regional assessment and overview. The draft may be provided by the consultant.
 8. An experienced consultant from the region (possibly, but not necessarily the same one mentioned in point 4 above) will be hired by POMRAC to compile a regional assessment and overview, using, among others, the National Reports.
27. The meeting recommended that the 2nd NOWPAP POMRAC FPM would endorse these activities and modalities as the base for POMRAC Work plan for 2004/5.

Agenda Item 11 - Other matters

28. No issues were raised under this agenda item.

Agenda Item 12 – Adoption of the report and closure of the meeting

29. The meeting adopted the report and the Director of POMRAC thanked the participants for their contribution and closed the meeting on Tuesday, 25 May 2004 at 18:00.



Photo A



Photo B

Participants of the First Joint Meeting of NOWPAP POMRAC Working Groups:
WG1 (A) and WG2 (B)
(Vladivostok, Russian Federation, 24-25 May 2004)

Annex

Annex content

Annex 1	List of participants to the First Joint Meeting of NOWPAP POMRAC Working Groups: WG 1 and WG 2	11
Annex 2	List of Documents for the First Joint Meeting of NOWPAP POMRAC Working Groups: WG 1 and WG 2	19
Annex 3	Provisional Agenda.....	21
Annex 3.1	Timetable.....	23
Annex 4	Terms of Reference for NOWPAP POMRAC Working Group 1 - Atmospheric Deposition of Contaminants into the Marine and Coastal Environment in NOWPAP Region.....	27
Annex 5	Terms of Reference for NOWPAP POMRAC Working Group 2 - River and Direct Inputs of Contaminants into the Marine and Coastal Environment in NOWPAP Region	31
Annex 6	Structure and Content of National Reports of NOWPAP Members on Atmospheric Deposition of Contaminants into the Marine and Coastal Environment in NOWPAP Region	35
Annex 7	Structure and Content of National Reports of NOWPAP Members on River and Direct Inputs of Contaminants into the Marine and Coastal Environment in NOWPAP Region	39

Annex 1

List of participants to the First Joint Meeting of NOWPAP POMRAC Working Groups: WG 1 and WG 2

Annex 1

List of participants to the First Joint Meeting of NOWPAP POMRAC

Working Groups: WG 1 and WG 2

1. POMRAC Focal Points (FP) and Experts

People's Republic of China

Mr. Ruibin WANG - FP
Professor, Director
Department of Air Quality Monitoring
China National Environmental Monitoring Center (CNEMC)
No. 1 Yuhuinanlu, Beisihuan Donglu, Beijing, 100029, China
Tel: 86-10-84636375
Fax: 86-10-84650863
Email: rbwang@zhb.gov.cn

Mr. Yutian ZHANG – Expert for WG1
Director
International Cooperation and Development
Chinese Research Academy of Environmental Sciences
8 Dayangfang, Anwai, 100012, Chaoyang District, Beijing, China
Tel: 86-10-84913949
Fax: 86-10-84913887
Email: zhangyt@craes.org.cn

Ms. Mingcui WANG – Expert for WG2
Senior Engineer
Department of Ecological Monitoring
China National Environmental Monitoring Center (CNEMC)
No. 1 Yuhuinanlu, Beisihuan Donglu, Beijing, 100029, China
Tel: 86-10-84637722-2637
Fax: 86-10-84633677
Email: wang_mingcui@21cn.com; wangmc@cnemc.cn

Mr. Yibing SU – Expert for WG2
Professor
Research Base of Rivers and Coasts
Chinese Research Academy of Environmental Sciences
8 Dayangfang, Anwai, 100012, Chaoyang District, Beijing, China
Tel: 86-10-8491-5217
Fax: 86-10-9491-8794
Email: suyb@craes.org.cn

Japan

Mr. Osamu MIZUNO - FP
Deputy Director
Global Environmental Issues Division
Global Environment Bureau

Ministry of the Environment
 1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-8975, Japan
 Tel.: 81-3-5521-8243, Fax: 81-3-3581-3348
 E-mail: OSAMU_MIZUNO@env.go.jp

Dr. Hiroshi HARA – Expert for WG1
 Professor
 Field Science Center
 Faculty of Agriculture
 Tokyo University of Agriculture and Technology
 Saiwaicho 3-5-8, Fuchu, Tokyo 183-8509 Japan
 Tel./Fax: +81-42-367-5818; +81-426-76-9933
 E-mail: harahrs@cc.tuat.ac.jp

Dr. Akira HARASHIMA – Expert for WG2
 Chief of Marine Environment Laboratory
 Department of Water and Soil Environment
 National Institute for Environmental Studies
 16-2 Onogawa, Tsukuba, Ibaraki 305-8506, Japan
 Tel.: 81-29-850-2508, Fax: 81-29-850-2576
 E-mail:harashim@nies.go.jp

Dr. Takeshi NAKATSUKA – Expert for WG2
 Associate Professor
 Institute of Low Temperature Science
 Hokkaido University
 N 19 W 8, Kita-ku, Sapporo 060-0819, Japan
 Tel.: 81-11-706-5504, Fax: 81-11-706-7142
 E-mail:nakatuka@lowtem.hokudai.ac.jp

Dr. Mitsuo UEMATSU – Expert for WG1
 Professor
 Center for International Cooperation
 Ocean Research Institute
 The University of Tokyo
 Minamidai 1-15-1, Nakano-ku 164-8639 Tokyo, Japan
 Tel.: 81-3-5351-6533, Fax: 81-3-5351-6533
 E-mail: uematsu@ori.u-tokyo.ac.jp

Republic of Korea

Dr. Hak Gyoon KIM - FP
 Senior Scientist
 National Fisheries Research & Development Institute
 408-1, Sirang-Ri, Gijang-Eup, Gijang-Gun, Busan, 619-902, Republic of Korea
 Tel.: 82-51-720-2221, Fax: 82-51-720-2266
 E-mail: hgkim@nfrdi.re.kr

Dr. Jae Ryoung OH – Expert for WG2
 Principal Researcher
 South Sea Institute
 KORDI
 391 Jangmok-ri, Jangmok-myon, Geoje 656-830, Gyungnam, Republic of Korea

Tel.: +82-55-639-8670, Fax: +82-55-639-8689
E-mail: jroh@kordi.re.kr

Dr. Ms. Hee Gu CHOI – Expert for WG1
Senior Researcher
Marine Environment Management Team
National Fisheries Research & Development Institute
408-1, Sirang-Ri, Gijang-Eup, Gijang-Gun, Busan, 619-902, Republic of Korea
Tel.: 82-51-720-2530, Fax: 82-51-720-2515
E-mail: hgchoi@nfrdi.re.kr

Dr. Hyo Bang MOON – Expert for WG1
Researcher
Marine Environment Management Team
National Fisheries Research & Development Institute
408-1, Sirang-Ri, Gijang-Eup, Gijang-Gun, Busan, 619-902, Republic of Korea
Tel.: 82-51-720-2532, Fax: 82-51-720-2515
E-mail: hbmoon@nfrdi.re.kr

Dr. Sang Soo KIM – Expert for WG2
Researcher
Marine Environmental Management Team
National Fisheries Research & Development Institute
408-1, Sirang-Ri, Gijang-Eup, Gijang-Gun, Busan, 619-902, Republic of Korea
Tel.: 82-51-720-2531, Fax: 82-51-720-2515
E-mail: kimss@nfrdi.re.kr

Russian Federation

Dr. Alexander V. TKALIN - FP
Leading Researcher
Department of Oceanography and Marine Ecology
Far Eastern Regional Hydrometeorological Research Institute
24 Fontannaya St., Vladivostok 690990
Russian Federation
E-mail: atkalin@hydromet.com
Tel.: 7-4232-224887, Fax: 7-4232-227754

Prof. Lev M. GRAMM-OSIPOV – Expert for WG2
Deputy Director
V.I.Ilichev Pacific Oceanological Institute
Far Eastern Branch of Russian Academy of Sciences
43, Baltiyskaya St., Vladivostok, 690041
Russian Federation
Tel.: 7-4232-311400, Fax: 7-4232-312573
E-mail: levgo@poi.dvo.ru

Dr. Vasilii F. MISHUKOV – Expert for WG1
Head of Laboratory
V.I.Ilichev Pacific Oceanological Institute
Far Eastern Branch of Russian Academy of Sciences
43, Baltiyskaya St., Vladivostok, 690041
Russian Federation
Tel.: 7-4232-312847, Fax: 7-4232-312573

E-mail: vmishukov@poi.dvo.ru

Mrs. Galina I. SEMYKYNA – Expert for WG2
Director
Center for Environmental Monitoring of
Primorskii Territorial Management for Hydrometeorology
and Environmental Monitoring
3 Mordovtseva St., Vladivostok
Russian Federation
Tel.: 7-4232-440683, 7-4232-204973, Fax: 7-4232-221750
E-mail: cms@primogoda.ru

Dr. Vladimir M. SHULKIN – Expert for WG2
Head of Laboratory
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041, Russian Federation
Tel.: 7-4232-320652
E-mail: shulkin@tig.dvo.ru

Dr. Igor I. KONDRATYEV – Expert for WG1
Senior Researcher
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041
Russian Federation
Tel.: 7-4232-320652, Fax: 7-4232-312159

2. UNITED NATIONS AND OTHER ORGANIZATIONS

Dr. Elik ADLER
Senior Programme Officer
Regional Seas Programme Coordinator
Division of Environmental Conventions
UNEP
P.O.Box 30552, Room T-232, Nairobi, Kenya
Tel.: 254 20 624033 / 624 544, Fax: 254 20 624 618E-mail: ellik.adler@unep.org

3. NOWPAP POMRAC

Dr. Anatoly N. KACHUR
Director POMRAC
Pollution Monitoring Regional Activity Center
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041
Russian Federation
Tel./Fax: 7-4232-312833
E-mail: akachur@mail.primorye.ru; kachur@tig.dvo.ru
Website: <http://www.pomrac.dvo.ru>

Dr. Svetlana I. KOZHENKOVA
POMRAC Secretariat
Scientific Researcher, Ph.D

Pacific Geographical Institute
 Far Eastern Branch of Russian Academy of Sciences
 7 Radio St., Vladivostok 690041
 Russian Federation
 Tel./Fax: 7-4232-312833
 E-mail: svetlana@tig.dvo.ru

Mr. Alexander V. VLASOV
 POMRAC Secretariat
 Senior Engineer
 Pacific Geographical Institute
 Far Eastern Branch of Russian Academy of Sciences
 7 Radio St., Vladivostok 690041
 Russian Federation
 Tel./Fax: 7-4232-312833
 E-mail: vlasov@tig.dvo.ru

4. OBSERVERS

People's Republic of China

Dr. Yudong ZHU
 Professor
 Data and Information Network Regional Activity Centre (DINRAC)
 No. 1 Yuhuinanlu, Chaoyang District, Beijing 100 029, China
 Tel.: (86 10) 8464 0869, Fax: (86 10) 8463 0849
 E-mail: zhu@zhb.gov.cn

Japan

Mr. Masanobu MIYAZAKI
 Director CEARAC
 5-5 Ushijimashin-machi, Toyama city, Toyama 930-0856, Japan
 Tel.: +81-76-445-1571; Fax: +81-76-445-1581
 E-mail: miyazaki@npec.or.jp

Russian Federation

Dr. Natalia A. PROSHJANTS
 Head of Foreign Languages Department
 Pacific Naval Institute
 6, Kamskyi Pereulok, Vladivostok 690062
 Russian Federation
 E-mail: proshjants@satellite.dvo.ru

Dr. Leonid M. MITNIK
 Head of Department
 V.I.II'ichev Pacific Oceanological Institute
 Far Eastern Branch of Russian Academy of Sciences
 43 Baltiyskaya St., Vladivostok, 690041
 Russian Federation
 Tel.: 7-4232-311400, Fax: 7-4232-312573

Dr. Tatiana BELAN
 Senior Researcher, FERHRI
 Far Eastern Regional Hydrometeorological Research Institute
 24 Fontannaya St., Vladivostok 690600
 Russian Federation

Tel.: 7-4232-224887, Fax: 7-4232-227754

Dr. Pavel Ya. TISCHENKO
Head of Laboratory
V.I.Ilichev Pacific Oceanological Institute
Far Eastern Branch of Russian Academy of Sciences
43 Baltiyskaya St., Vladivostok, 690041, Russian Federation
Tel: 7-4232-311400, Fax: 7-4232-312573
E-mail: tpave1@poi.dvo.ru

Mrs. Galina L. DIMOVA
Head Interpreter
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041
Tel./ Fax: 7-4232-320652

Mrs. Ludmilla RYABOVA
Senior instructor
Chair of Foreign Languages
Vladivostok State University of Economics and Service
41 Gogol str., Vladivostok 690000
Russian Federation
Tel.: 7-4232 40-41-19
E-mail: RyabovaLL@vvsu.ru

Mrs. Galina A. VLASOVA
Engineer
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041
Russian Federation
Tel./Fax: 7-4232-320652

Mrs. Natalia V. MISHINA
Post graduate student
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041
Russian Federation
Tel./Fax: 7-4232-312833
E-mail: mishina@tig.dvo.ru

Mr. Oleg A. BOYTSOV
Engineer
Pacific Geographical Institute
Far Eastern Branch of Russian Academy of Sciences
7 Radio St., Vladivostok 690041
Russian Federation
Tel./Fax: 7-4232-312833

Annex 2

**List of Documents for the First Joint Meeting of NOWPAP POMRAC
Working Groups: WG 1 and WG 2**

Annex 2**List of Documents for the First Joint Meeting of NOWPAP POMRAC
Working Groups: WG 1 and WG 2****Working Documents**

UNEP/NOWPAP/POMRAC/WG1 WG2 1/1	Provisional Agenda
UNEP/NOWPAP/POMRAC/WG1 WG2 1/1/INF1	List of Documents
UNEP/NOWPAP/POMRAC/WG1 WG2 1/1/1	Timetable of the Meeting
UNEP/NOWPAP/POMRAC/WG1 WG2 INF 1	Provisional list of participants
UNEP/NOWPAP/POMRAC/WG1 1/4	Draft Terms of Reference for NOWPAP POMRAC Working Group 1 – Atmospheric Deposition of Contaminants into the Marine and Coastal Environment
UNEP/NOWPAP/POMRAC/WG2 1/4	Draft Terms of Reference for NOWPAP POMRAC Working Group 2 - River and Direct Inputs of Contaminants into the Marine and Coastal Environment
UNEP/NOWPAP/POMRAC/WG1 1/5	Draft Structure of the National Reports on Atmospheric Deposition of Contaminants
UNEP/NOWPAP/POMRAC/WG2 1/5	Draft Structure of the National Reports on River and Direct Inputs of Contaminants

Annex 3

Provisional Agenda

Annex 3

Provisional Agenda

1. Opening of the meeting (in plenary)
2. Organization of the meeting
3. Adoption of the Agenda
4. Presentation of UNEP
5. Discussion of the proposed Terms of Reference for NOWPAP POMRAC Working Group 1 and Working Group 2
6. Overview of existing activities and future plans regarding **Monitoring of Atmospheric Input** in NOWPAP Member States (in separate WG1 session)
 - Report of the Chinese National Expert
 - Report of the Japanese National Expert
 - Report of the Korean National Expert
 - Report of the Russian National Expert
7. Overview of existing activities and future plans regarding **Monitoring of River and Direct Inputs** in NOWPAP Member States (in separate WG2 session)
 - Report of the Chinese National Expert
 - Report of the Japanese National Expert
 - Report of the Korean National Expert
 - Report of the Russian National Expert
8. Review of the proposed structure and content of National Reports for WG 1 and WG 2. (in separate WG sessions)
9. Discussions on the workplans for 2004/5 and on long term strategies for POMRAC Working Group 1 (Atmospheric Deposition) and Working Group 2 (River and Direct Inputs) (in separate WG sessions)
10. Review and discussion on the results of the work of WG 1 and WG 2. Conclusions of the meeting and recommendations to the 2nd NOWPAP POMRAC Focal Points Meeting (in plenary)
11. Other matters
12. Adoption of the report of the meeting and closure of the meeting (in plenary)

Annex 3.1

Timetable

Annex 3.1

Timetable

Day 1 - Monday, 24 May 2004

10:00 – 11:30

Agenda Item 1 Opening of the Meeting (in plenary)

The meeting will be opened by Director of POMRAC (Dr. Anatoly Kachur)
Welcome statements by the Far East Branch of the Russian Academy of Sciences
Welcome statements by UNEP (Dr. Elik Adler)

Agenda Item 2 Organization of the Meeting

Agenda Item 3 Adoption of the Agenda

Agenda Item 4 Presentation of UNEP on Regional Seas and NOWPAP (in plenary)

11:30 Coffee Break

Agenda Item 5 Discussion of the proposed Terms of Reference for NOWPAP POMRAC Working Groups 1 and 2 (in plenary).

13:00 Lunch Break

15:00 – Agenda Item 5 Finalization of ToR (in separate WG sessions)

16:30 Coffee Break

16:15 Agenda Item 6/7 (in separate WG sessions).

A. Overview of existing activities and future plan – WG 1 (Atmospheric Deposition);
Presentations of NOWPAP countries:

- China
- Japan
- Korea
- Russia

B. Overview of existing activities and future plan – WG 2 (River and Direct Inputs);
Presentations of NOWPAP countries:

- China
- Japan
- Korea
- Russia

19:00 Reception hosted by POMRAC

Day 2 - Tuesday, 25 May 2004

9:30 - 11:00 Agenda Item 8 - (in separate WG sessions) - Review of the structure and content of the National Reports

11:00 Coffee Break

11:15 - 13:00 Agenda Item 9 - (in separate WG sessions) - Discussions on future activities

13:00 *Lunch Break*

14:00 - 15:00 Agenda Item 10 - (in plenary) - Summary and conclusions of WG 1 and WG 2

15:00 – 15:30 Agenda Item 11 - Other matters

16:00 Agenda Item 12 - Adoption of the report and closure of the meeting (in plenary)

Annex 4

**Terms of Reference
for NOWPAP POMRAC Working Group 1**

**- Atmospheric Deposition of Contaminants
into the Marine and Coastal Environment in NOWPAP Region**

Annex 4

Terms of Reference

for NOWPAP POMRAC Working Group 1

- Atmospheric Deposition of Contaminants into the Marine and Coastal Environment in NOWPAP Region

Background

The 7th Intergovernmental Meeting of NOWPAP (Vladivostok, 20-22 March 2002), have decided that POMRAC will be responsible for two working groups: WG 1 - Atmospheric Deposition of Contaminants into the Marine and Coastal Environment; and WG 2 – River and Direct Inputs of Contaminants into the Marine and Coastal Environment (document UNEP/NOWPAP IG.7/8).

The 1st Focal Points Meeting of POMRAC (Vladivostok, Russia, 9-11 April 2004) decided that the main task of WG 1 should be to establish a regional assessment program to evaluate the atmospheric deposition of contaminants into the marine and coastal environment in NOWPAP region.

The 2nd Focal Points Meeting of POMRAC (Vladivostok, Russia, 26-28 May 2004) adopted the Terms of Reference for Working Group 1 (WG 1), as follows.

Objectives

The main objectives of the WG 1 are:

- (a) Exchange information to ensure practical implementation of activities related to the monitoring of Atmospheric Deposition in the NOWPAP region.
- (b) Promote, coordinate and harmonize regional cooperation in the NOWPAP region related to the monitoring of Atmospheric Deposition of contaminants into the coastal and marine environment.

Functions

The functions of the WG 1 are:

- Identify and carry out the cooperative actions in the NOWPAP region related to the monitoring of the Atmospheric Deposition.
- Promote information exchange and technical cooperation, including education, training and technology transfer in the fields related to monitoring of the Atmospheric Deposition.

- Review ongoing regional and national activities and advise POMRAC on necessary follow-up actions related to the monitoring of the Atmospheric Deposition.
- Advise POMRAC on necessary activities related to the goals and objectives of NOWPAP in the field of marine and coastal monitoring.

Participation

Each NOWPAP Member will nominate its representatives to WG 1. The Working Group will be composed of two experts from each NOWPAP Member, preferably from the scientific community dealing with Atmospheric Deposition.

Other relevant international or/and regional organizations dealing with Atmospheric Deposition in the NOWPAP region may be invited to participate in the work of WG 1 as observers or consultants.

Activities

To achieve the main task of the Working Group 1 (Atmospheric Deposition), the following activities will be carried out:

1. Review and assess existing national and regional programs and systems, which may be used for the evaluation of the atmospheric deposition of contaminants into the marine and coastal environment.
2. Review of the national monitoring data as well as scientific data and models for the evaluation of the atmospheric deposition of contaminants into the marine and coastal environment.
3. Discuss regional strategies and priorities for the monitoring and evaluation of atmospheric deposition of contaminants in the region.
4. Identify the monitoring parameters and data to be used in order to link the land-based data to atmospheric deposition into the marine and coastal environment.
5. Discuss the further development of a monitoring system for atmospheric deposition into marine and coastal environment, including marine-based measurements/observations.
6. Identify and cooperate with potential partners, organizations and/or programs, which may operate in the related fields.
7. Discuss the development of data and information sharing and exchange mechanisms within NOWPAP members and the related partners.
8. Discuss the development of the capacity building measures and public outreach products.
9. Assist in preparation of detailed national reports.
10. Prepare a regional overview based on the national reports.
11. Participate and contribute to a regional assessment of the state of marine and coastal environment in NOWPAP region.

Procedures

WG1 will meet once or twice a year in venues rotating among NOWPAP members. Intersessional work will be carried out mainly by correspondence (via internet).

The Working Group 1 shall adopt, mutates mutandis, the rules of procedures of the UNEP Governing Council.

The Chairperson for each meeting will be elected by the WG 1 on a rotational basis. The Chairperson will continue to serve as the chairperson of WG 1 during the intersessional period, until a new chair is elected in the following meeting.

Working Group 1 will try to achieve decisions by consensus. Lack of consensus will be reported to the next POMRAC Focal Points Meeting.

The Working Group 1 will advise, when necessary, to the POMRAC Focal Points Meeting on amendments to the present Terms of Reference for WG 1.

A report will be prepared at the end of each WG 1 meeting. The report will be presented to the next POMRAC Focal Points Meeting.

POMRAC will act as the secretariat for Working Group 1.

Budget and Expenses

The WG 1 activities will be supported by the NOWPAP Trust Fund through POMRAC budget. Other external funds should also be sought in accordance with the development of POMRAC activities.

Language

The working language of the WG 1 will be English. The host country of each of the meeting sessions may interpret English into the language of the host country.

Annex 5

**Terms of Reference
for NOWPAP POMRAC Working Group 2**

**- River and Direct Inputs of Contaminants
into the Marine and Coastal Environment in NOWPAP Region**

Annex 5

Terms of Reference

for NOWPAP POMRAC Working Group 2

- River and Direct Inputs of Contaminants into the Marine and Coastal Environment in NOWPAP Region

Background

The 7th Intergovernmental Meeting of NOWPAP (Vladivostok, 20-22 March 2002), decided that POMRAC should be responsible for two working groups: WG 1 – Atmospheric Deposition of Contaminants into the Marine and Coastal Environment; and WG 2 – River and Direct Inputs of Contaminants into the Marine and Coastal Environment (document UNEP/NOWPAP IG.7/8).

The 1st Focal Points Meeting of POMRAC (Vladivostok, Russia, 9-11 April 2003) decided that the main task of WG 2 should be to establish a regional assessment program to evaluate the river and direct inputs of contaminants into the marine and coastal environment in the NOWPAP region.

The 2nd Focal Points Meeting of POMRAC (Vladivostok, Russia, 26-28 May 2004) adopted the Terms of Reference for Working Group 2 (WG 2), as follows.

Definition: river and direct inputs refer to all inputs of contaminants from land based sources and activities including, inter alia:

- Rivers inputs
- Municipal wastewater
- Industrial wastewater
- Non points sources (such as agricultural runoff)
- Marine Dumping (from LBS and Dredging)

Objectives

The main objectives of WG 2 are:

- (a) Exchange information to ensure practical implementation of activities related to the monitoring of river and direct inputs in the NOWPAP region.
- (b) Promote, coordinate and harmonize regional cooperation in the NOWPAP region related to the monitoring of river and direct inputs into the coastal and marine environment.

Functions

The functions of WG 2 are:

- Identify and carry out the cooperative actions in the NOWPAP region related to the

monitoring of the river and direct inputs.

- Promote information exchange and technical cooperation, including education, training and technology transfer in the fields related to monitoring of the river and direct inputs.
- Review ongoing regional and national activities and advise POMRAC on necessary follow-up actions related to the monitoring of the river and direct inputs.
- Advise POMRAC on necessary activities related to the goals and objectives of NOWPAP in the field of marine and coastal monitoring.

Participation

Each NOWPAP Member will nominate its representatives to WG 2. The Working Group will be composed of two experts from each NOWPAP Member, preferably from the scientific community dealing with rivers and direct inputs.

Other relevant international and/or regional organizations dealing with river and direct inputs of contaminants into the marine and coastal environment in the NOWPAP region may be invited to participate in the work of WG 2 as observers or consultants.

Activities

To achieve the main task of WG 2, the following activities will be carried out:

- 1) Compilation and exchange of national reports based on a format agreed upon by POMRAC Focal Points Meeting
- 2) Review of the national reports
- 3) Preparation of the regional overview (consultancy)
- 4) Identification of gaps and needs.
- 5) Publication of national reports
- 6) Publication of regional overview
- 7) Identification and prioritization of required activities under this working group

Procedures

WG 2 will meet once or twice a year in rotating venues among the NOWPAP members. Intersessional work will be carried out mainly by correspondence (via internet).

The Chairperson for each meeting will be elected by WG 2 on a rotational basis. The Chairperson will continue to serve as the chairperson of WG 2 during the intersessional period, until a new chair is elected in the following meeting.

Working Group 2 will try to make decisions by consensus. Lack of consensus will be reported to the next POMRAC Focal Points Meeting.

Working Group 2 will advise, when necessary, to the POMRAC Focal Points Meeting on amendments to the present Terms of Reference for WG 2.

A report will be prepared at the end of each WG 2 meeting. The report will be presented to the next POMRAC Focal Points Meeting. POMRAC will provide the secretariat to WG 2.

Budget and Expenses

The WG 2 activities will be supported by the NOWPAP Trust Fund through POMRAC budget. Other external funds will also be sought in accordance with the development of POMRAC activities.

Language

The working language of WG 2 will be English. The host country of each of the meeting sessions may interpret English into the language of the host country.

Annex 6

Structure and Content of National Reports of NOWPAP Members on Atmospheric Deposition of Contaminants into the Marine and Coastal Environment in NOWPAP Region

Annex 6

Structure and Content of National Reports of NOWPAP Members on Atmospheric Deposition of Contaminants into the Marine and Coastal Environment in NOWPAP Region

1. **Executive Summary**
2. **Introduction**
 - Goals and objectives of this report
 - General background information on NOWPAP (set the report in the context of NOWPAP, short history, decisions)
 - General information/introduction on the atmospheric deposition (what is it, why is it important, relevance to the region etc.)
 - Geographical scope (geographical coverage of the report, characteristics of the country and its environment related to the issue. e.g. major rivers, coasts, mountains, cities, climatic systems, physical geography etc.)
 - Institutional arrangements for developing these reports (who prepared this report)
3. **Social and economic situation** (short overview of relevant social and economic aspects related to atmospheric deposition, e.g. population, distribution of communities in the country (mainly coastal or inland communities), main income, anthropogenic activities which cause atmospheric deposition, transport, energy, industry)
4. **National monitoring and research activities related to atmospheric deposition of contaminants**
 - 4.1 **National programmes** (major scientific or administrative programmes, actors/organizations etc., institutional framework, regular or irregular activities/projects, number and location of stations, existing monitoring parameters (chemical, physical and others) and frequency, etc., including tables and maps).
 - 4.2 **Methodologies/procedures** (including equipment used, detection limits and accuracy – preferably in tabular form [sample tables to be provided by POMRAC Secretariat], QA/QC procedures applicable to atmospheric deposition used in each NOWPAP country).
 - 4.3 **Research activities** (related to atmospheric deposition in NOWPAP region).
 - 4.4 **Training activities** (related to atmospheric deposition)
5. **Present situation** of atmospheric deposition of contaminants (based on 2002 data) and long term trends, if available. Recommended parameters will be submitted by POMRAC secretariat.
6. **Recommendations for future regional activities and priorities** (related to atmospheric deposition in NOWPAP region)
7. **Conclusions**

8. **References** (related publications, websites and other information sources available related to Atmospheric Deposition)

Annex (s):

1. **National Laws and Regulations** (overview of relevant policies and laws related to the subject).

Annex 7

Structure and Content of National Reports of NOWPAP Members on River and Direct Inputs of Contaminants into the Marine and Coastal Environment in NOWPAP Region

Annex 7

Structure and Content of National Reports of NOWPAP Members on River and Direct Inputs of Contaminants into the Marine and Coastal Environment in NOWPAP Region

1. Executive Summary

2. Introduction

- Goals and objectives of this report
- General background information on NOWPAP (set the report in the context of NOWPAP, short history, decisions)
- General information/introduction on river and direct inputs of contaminants (what is it, why is it important, relevance to the region etc.)
- Geographical scope of relevant region of NOWPAP area (geographical coverage of the report, major rivers, coasts, mountains, cities, climatic systems, physical geography etc.)
- Institutional arrangements for developing these reports (who prepared this report)

3. Social and economic situation in 2001-2002 (including the historical review for the last decade; Short overview of relevant social and economic aspects related to river and direct inputs of contaminants. e.g. population, distribution of communities, anthropogenic activities which cause river and direct inputs of contaminants, transport, energy, industry)

4. National monitoring and assessment activities (related to river and direct inputs of contaminants)

4.1. Overviews of national policies and laws

4.2. National program(s) (major scientific or administrative programs, actors/organizations etc., institutional framework, regular or irregular activities/projects, and management program including standards.

4.3 Methodologies and procedures (including equipment used, detection limits and accuracy, QA/QC procedures. characteristics of network.

4.4 Research activities

4.5 Training activities and programs

5. Present situation of river and direct inputs of contaminants (based on 2002 data) and long term trends, if available. Recommended parameters will be submitted by POMRAC secretariat.

6. **Proposals for future regional activities and priorities in NOWPAP regions**
7. **Conclusion**
8. **Data availability (publications, Websites and other information sources)**

Report of the 1st Joint Meeting
of NOWPAP POMRAC Working Groups:

WG 1 - Atmospheric Deposition of Contaminants
into the Marine and Coastal Environment

and

WG 2 - River and Direct Inputs of Contaminants
into the Marine and Coastal Environment

(Vladivostok, Russian Federation, 24-25 May 2004)

Материалы Первого Международного Объединенного совещания
Рабочих Групп экспертов
Регионального Центра Активности
в области мониторинга окружающей среды
стран-членов Плана действий по охране, управлению
и развитию морской и прибрежной среды
региона северо-западной части Тихого океана (NOWPAP POMRAC):

Рабочая Группа 1 (WG1) – атмосферное выпадение загрязняющих веществ
в морскую и прибрежную среду

и

Рабочая Группа 2 (WG2) – речной и прямой сток загрязняющих веществ
в морскую и прибрежную среду

24-25 мая 2004 г., Владивосток

(На англ. яз.)

Отпечатано с оригинал-макета, подготовленного
в Тихоокеанском институте географии ДВО РАН,
минуя редподготовку