



**COBSEA**  
COORDINATING BODY ON  
THE SEAS OF EAST ASIA



# Report

## Meeting of the COBSEA Regional Working Group on Marine Litter



13-14 December 2018  
Sukosol Hotel, Bangkok, Thailand

## **Opening of the meeting**

1. The meeting was opened by Ms. Isabelle Louise, Deputy Regional Director, United Nations Environment Programme Asia and the Pacific Regional Office.
2. Mr. Jerker Tamelander, COBSEA Coordinator a.i. welcomed participants and observers, and provided an overview of the meeting agenda. Participants introduced themselves. The Meeting Agenda is provided in Annex 1, the list of participants in Annex 2.

## **Election of Chairperson**

3. As Terms of Reference for the Working Group are yet to be formally adopted by the COBSEA Intergovernmental Meeting (IGM), it was agreed that the COBSEA Secretariat would serve as Chair of the meeting, and would compile a meeting report for review by participating countries. It was emphasized that the meeting was technical in nature and provides an opportunity to exchange views, discuss experiences and provide technical input in relation to the work by COBSEA. While meeting outcomes will be formally considered by the IGM, findings and recommendations arising from the meeting will inform and guide COBSEA's efforts also in the immediate future.
4. Based on the suggestion made by the COBSEA Secretariat, it was agreed that the meeting report would contain a brief summary of the scope of discussion, conclusions and follow-up actions. The draft report would be shared with participating countries within 2 weeks of the meeting for review and comments prior to finalization. The final report will be provided to the IGM as an information document.

## **Update on status and progress in global marine litter processes**

5. Ms. Heidi Savelli provided an overview of progress made under the Global Partnership on Marine Litter (GPML). The global Clean Seas campaign is ongoing, and GPML was looking to support its further regionalization.
6. The Group of Experts for the Scientific Aspects of Marine Protection (GESAMP) Working Group 40 on Plastics and Micro-plastics in the Ocean has nearly completed its work on the monitoring and assessment of plastics and microplastics in the coastal and open ocean environment. This can support development of national and regional marine litter monitoring through COBSEA. She also mentioned emerging work by GESAMP on nanoplastics, improving knowledge on sea-based sources of marine litter, as well as work on marine plastic litter and human health with Strategic Approach to International Chemicals Management (SAICM).
7. She further provided a brief update on discussions at the Ad Hoc Open-Ended Expert Group on Marine Litter and Microplastics (further information and meeting documentation at <https://papersmart.unon.org/resolution/second-adhoc-oeeg>). Meeting outcomes will be presented to the 4<sup>th</sup> UN Environment Assembly, to be held in Nairobi. A 'Marine Litter Tent' will provide a venue for a variety of marine litter related side events and discussions during UNEA-4.

8. The 3<sup>rd</sup> Forum of Ministers and Environment Authorities of Asia Pacific will be held in Singapore, 23-25 January 2019, jointly organized by the Singapore Ministry of the Environment and Water Resources and UN Environment (<https://www.unenvironment.org/events/conference/third-forum-ministers-and-environment-authorities-asia-pacific>). This is an opportunity to bring an Asia Pacific perspective to discussions at the 4<sup>th</sup> UN Environment Assembly, including in relation to marine litter. A side event on “Incentivizing action to beat plastic pollution” will be held in association with the forum.

9. It was noted that the tools and products developed through GPML have relevance to the region and can be applied and adapted as necessary through COBSEA activities.

10. The Republic of Korea provided a brief update on the APEC funded project, ‘Capacity Building for Marine Debris Prevention and Management in the APEC Region Phase 2 which was held in Busan, June 2018 with 52 participants from 16 APEC economies, observers, and international experts from NOWPAP RCU, ASEAN Secretariat, World Bank and Ocean Conservancy. A ‘Workshop’s Recommendation for Draft on APEC Marine Debris Management Guideline’ has been developed and approved by the Oceans and Fisheries Working Group (OFWG) of APEC in August 2018. This document is currently being circulated to all relevant APEC Working Groups for additional comments. The results will be presented during the 12<sup>th</sup> APEC OFWG which will be held in 2019, Chile. Ideally the final document will be submitted as an agenda item to the APEC Senior Official’s Meeting.

11. Additionally, through the APEC funded project submitted by the USA, ‘Update of 2009 APEC Report on Economic Costs of Marine Debris to APEC Region’, an ‘APEC Marine Debris Stakeholder Meeting on Improving Data and Coordination and Developing New Partnership’ was held in Bali, November 2018. The US Report will be submitted to the APEC Secretariat in the second half of 2019.

### **Revision of the COBSEA Regional Action Plan on Marine Litter (RAP MALI)**

12. The Secretariat gave an overview of the draft revised COBSEA RAP MALI as well as the steps towards its finalization agreed at IGM EO-2. The draft revised COBSEA RAP MALI was presented to the IGM as a working document and that it was agreed that it would form the basis for a first round of national consultation, based on which a revised draft would be prepared and a regional workshop convened.

13. It was noted that while the four main actions identified were appropriate, the number of activities identified in the RAP MALI was too large, and could be deemed too ambitious or aspirational. The large number of activities and associated verification indicators posed implementation challenges to member countries. It was suggested that activities should be reformulated so as to be more directional in nature. This would give additional clarity on central elements such as information management and sharing, monitoring, identification of sources, and prioritization to support fundraising and development of projects. Importantly, this would also clarify linkages to and synergy with other relevant regional bodies or processes, such as AWGCME and APEC as well as global work in response to UNEA process resolutions.

14. The timeline of the RAP MALI could on a strategic level align with that of the COBSEA Strategic Directions, complemented by more specific yearly or biennial rolling work plans developed through the ML/RAP MALI Working Group and adopted by the IGM. This would strengthen progress in relation to priority issues, and also enable activities under the RAP MALI to refrain from duplicating efforts in other platforms and be more responsive to global level developments e.g. in relation to UNEA resolutions.

15. It was recognized that it will be important to ensure that the RAP MALI is complemented by national level planning and policy documents. It was noted that countries need guidance and 'minimum requirements' for development or revision of national plans related to marine litter in the context of the RAP MALI. The Secretariat can provide guidance, technical and as possible financial support for this through project efforts, bearing in mind that national marine litter related planning varies in the region, including in terms of what type of policy instruments are being used.

16. An important task of the COBSEA Secretariat to support the RAP MALI revision as well as to provide information in relation to its implementation, is to map the landscape of what current efforts in the management of marine litter in the region. This could potentially be addressed through a Regional Node of the Global Partnership on Marine Litter under COBSEA. The Secretariat will elaborate further on this, in consultation with the Working Group and for consideration by the IGM.

17. The challenges in implementing some national mandates such as in relation to waste management were noted. A comment was made that a legally binding regional instrument e.g. on waste management or on Extended Producer Responsibility may help address this. It was suggested that issues around the establishment of a legal framework in the region could be further mapped out and analyzed.

18. In conclusion, it was recommended that the RAP MALI would maintain the 4 main actions but focus on a smaller number of 'directional' activities reflecting collective priorities of countries and a sharper identification of key gaps and COBSEA's capacity and comparative advantage. Other elements of the RAP MALI including e.g. indicators would also be modified on this basis. The RAP MALI would link with the timeline of the COBSEA Strategic Directions 2018-2022, and more specific one- or two-year work plans would be developed through the ML/RAP MALI Working Group.

19. It was further recommended that the Secretariat will provide information and guidance to support national consultation on the RAP MALI as well as its further development, through formal communication with NFPs. This would include, for example, issue prioritisation by countries. On this basis the Secretariat would prepare a second draft revised RAP MALI. The recommended timeline would be for national consultation and a convening of a regional RAP MALI workshop prior to IGM 24. To allow sufficient time for this, IGM 24 could be convened in the second quarter of 2019, and the RAP MALI workshop could be convened immediately before the IGM.

### **COBSEA Regional Working Group on Marine Litter**

20. The Secretariat gave an overview of the initial draft Terms of Reference of the Working Group, which were shared with NFPs in August 2018. These have been prepared by the Secretariat as a basis for discussion with countries, drawing on models from other regions. It was noted that the RAP MALI 2008 uses the term 'COBSEA Regional Working Group on Marine Litter', whereas the draft revised RAP MALI uses the term 'Regional Working Group on COBSEA RAP MALI'.

21. Participants discussed the initial draft Terms of Reference, noting that they are too broad and general. The Terms of Reference of the Working Group need to be established on the basis of the RAP MALI, and therefore need to be further developed and finalized in parallel with the process of revising the RAP MALI. This includes defining the primary role as well as specific tasks and organization of work, to delineate mandate and responsibility clearly. It was also pointed out that there is some redundancy in the specific tasks.

22. The draft revision of the RAP MALI makes reference to establishment of a committee on marine litter monitoring under the Working Group. While establishment of many structures/bodies can potentially seem confusing, it was recognized that marine litter monitoring warrants convening of particular expertise.

23. It was emphasized that ministries and agencies with lead or contributing responsibility for marine litter vary across countries, and the transboundary and cross sectoral nature of marine litter places requirements on composition of the working group. This needs to be considered in further developing the Terms of Reference. It was also suggested that, whenever possible, travel support would be provided to two representatives per country in future meetings.

24. The utility of drawing on knowledge and experience from other regions was recognized. The Caribbean and NOWPAP provide useful examples to consider. However, it was noted that NOWPAP's focus is on the sea whereas COBSEA also addresses land-based sources, which adds considerable complexity.

25. In conclusion, it was recommended that further development of the ToR needs to consider, and be carried out on the basis of, the process for revision of the RAP MALI. This will ensure that the WG mandate and modalities are clear and purpose driven, and that its representation/composition takes into account the cross-sectoral nature of marine litter.

26. It was further recommended that the Secretariat will revise draft elements on the basis of discussion in this meeting as well as further work on the RAP MALI revision process, in close consultation with countries. The Secretariat will also endeavour to convene a WG meeting prior to IGM 24, to support/take stock of RAP MALI revision, and so as to enable submission revised WG ToR for consideration by IGM 24.

### **Marine litter activities in the context of COBSEA RAP MALI**

#### *'Reducing marine litter by addressing the management of the plastic value chain'*

27. The Secretariat gave an overview of the Sida-funded joint project by UN Environment and COBSEA, including inception phase activities and results framework as well as how it was developed, noting it has been presented to IGM EO-2 as part of the project pipeline.

28. It was noted that the project provides a good opportunity to address identify information and knowledge gaps, and to address a number of priorities identified in relation to national consultation and planning in the context of RAP MALI. It should also enable development of a regular mechanism for interfacing with ASEAN.

29. A question was raised on the process for selecting target countries under Output 1 of the project. It was clarified that this was done on the basis of ongoing efforts at national level as well as opportunities presented by private sector partners to address marine litter in line with the intended project approach.

30. Some comments on the indicators in the results framework were provided, including to note that the number of regulations applied upstream is not in itself indicative of reduction in the volume of plastic that reaches the sea, and to suggest that local (municipal/city) level regulations also be considered.

31. GPML confirmed availability of some complementary resources towards activities e.g. in relation to monitoring, communication, information management and sharing etc. It was noted that the project will, where possible, draw on the wealth of tools and products generated by GPML.

32. The Secretariat noted that proposals previously submitted to the Secretariat by participating countries, such as proposals to address research gaps, may be possible to take forward in the context of the project.

33. In conclusion, it was recognized that the project provides an opportunity to identify information gaps and needs, pursue identified national priorities, map the range of efforts underway in relation to marine litter and establish a networking function for this through a regional node of the GPML, and ensure complementarity with efforts at global level. Comments and suggestions arising from this meeting will be considered in the finalization of the project results framework and development of work plan for 2019.

#### *Regional Node of the Global Partnership on Marine Litter*

34. GPML presented on the work of established regional nodes, using NOWPAP and the Caribbean as examples. This provides models to draw on, including leveraging national efforts and expertise. GPML regional nodes benefit from strong linkages to global-level policy and technical work as well as institutional and some financial support.

35. Development of a GPML Regional Node through COBSEA could be used to address particular needs of the EAS region, including as identified in this meeting in relation to mapping and sharing information on relevant efforts at regional and national levels, identifying gaps, supporting fundraising etc. The Secretariat will elaborate on this further, in consultation with the Working Group and for consideration by the IGM.

#### *Abandoned, lost or otherwise discarded fishing gear*

36. The Secretariat presented an initial concept proposal for a project on addressing sea-based sources of marine litter in the region, focusing on ghost gear (abandoned, lost or otherwise discarded fishing gear, or ALDFG). The current status, impact and associated costs and losses are not well quantified, but it is considered a likely major concern in the region. COBSEA RAP MALI encompasses prevention and reduction of marine litter from sea-based sources including ALDFG.

37. FAO highlighted that the issue is a result of weaknesses in fisheries management, strongly linked to IUU fishing, and that reduction requires further fisheries management effort. It was also noted that MARPOL V is applicable, and that the issue is being addressed through the IMO working group on marine litter. Both IMO and FAO participate in the Steering Committee of GPML, and there is ongoing global level engagement between UN Environment, FAO and IMO on this issue.

38. It was noted that there are major potential impacts of ghost gear in near shore ecosystems including critical habitat such as coral reefs. Ongoing work by SEAFDEC on assessment of ghost gear in the Gulf of Thailand focuses primarily on the open sea. Significant marine litter from aquaculture was also highlighted, e.g. loss of packaging, in particular affecting the near shore and coastal environment. While this requires different mitigation strategies than addressing ALDFG in capture fisheries, efforts to better understand current status, impacts, data and information gaps and priorities addressing both aquaculture and capture fisheries are needed.

39. The Secretariat will develop the concept note further on the basis of discussions, with relevant partners such as FAO and SEAFDEC. Bearing in mind the potential impacts on biodiversity there may be scope to also engage with the ASEAN Centre for Biodiversity. A more elaborated description of the work will be prepared for consideration by the IGM, in consultation with the ML Working Group.

#### *Methodology for marine plastic litter hotspot assessment*

40. Dr. Lixin Zhu of East China Normal University presented ongoing work on development of a methodology for marine litter hotspot assessment. The work is supported by UN Environment/GPML. The methodology combines modeling with expert elicitation. An Expert Meeting to review progress with the methodology was held 10-11 December 2018 in Shanghai.

41. The meeting discussed complementarity of the methodology with marine litter monitoring and its use in prioritizing efforts including e.g. management efforts or recovery. The need for guidance on its application depending on purpose and context was highlighted.

42. The Secretariat will share the draft methodology with WG meeting participants, inviting comments as well as suggestions for test application. The potential opportunities to apply the model through project work was noted.

#### *Updates from observers*

43. Observers provided information on ongoing and emerging work relevant to the COBSEA RAP MALI.

44. ASEAN: Ms. Natalia Derodofa noted that efforts to address marine litter through ASEAN are relatively recent. A conference convened in Phuket in November 2017 has provided general direction. 2018 saw, for example, the organization of a workshop on management of plastic packaging waste as well as adoption of the EAS leaders' statement on marine litter. A number of marine litter related projects are in development with partners such as EU, Norway, Japan, GIZ and NOAA. She welcomed cooperation with COBSEA in relation to these efforts and stepping up work on marine litter through ASEAN.

45. FAO: Mr. Matthew Camilleri informed the meeting that voluntary guidelines on marking of fishing gear were endorsed by FAO's Committee on Fisheries in 2018. Efforts to support the implementation of the voluntary guidelines will include assisting countries in assessing needs and priority actions and capacity development support such as training workshops. This will contribute to development and implementation of national and regional action plans including those by UNEP Regional Seas Programmes such as COBSEA. The commitment of countries in the COBSEA region to address marine litter can be supported by FAO from a fisheries perspective.

46. IUCN: Ms. Maeve Nightingale presented the IUCN MARPLASTICCS initiative. This 3-year initiative includes two target countries in the region, Thailand and Vietnam, as well as three countries in Eastern Africa. The project will apply national plastic footprint assessment methodology, support national actions to control plastic pollution, support national and regional policy processes and engage and mobilize business actors. It was recommended that the initiative link with the relevant Regional Seas and RAP MALI adopted in both regions.

47. NUS CIL: Ms. Youna Lyons presented ongoing work on capacity building and research to promote regional cooperation for the protection of the marine environment. CIL has mapped the landscape of

regional bodies and the ratification status in the region of international treaties, which was shared with participants. She noted the absence of binding legal agreements on marine environmental protection in the region. She also informed the meeting of the CIL International Conference on Regional Cooperation for the Protection of the Marine Environment, to be held 15-16 January 2019 in Singapore.

48. SEAFDEC: Ms. Pontipa Luadnakrob presented ongoing work in relation to assessment of ALDFG in the Gulf of Thailand as well as microplastics and seafood safety. She noted that a regional technical consultation had found that marking of fishing gear could help reduce loss and improve recovery in the region. Responding to this SEAFDEC has worked on some pilot level application of the voluntary guidelines which has included translation of the guidelines to make them more user friendly, and some awareness raising.

### **Any other business**

49. Mr. Jayaprakash Murulitharan mentioned the intention of Malaysia to leverage a regional effort towards banning or regulating plastic imports in the ASEAN region, and inquired about the potential to advance this on the basis of the Sida-funded COBSEA-UN Environment regional marine litter project, in collaboration with ASEAN.

50. It was suggested that the COBSEA RAP MALI Working Group be used as a platform to promote cooperation between countries in relation to marine litter, including sharing of experiences, best practice, and capacity building, and documenting outcomes in terms of technical, financial and policy aspects.

51. This should specifically encompass marine litter monitoring, including provision of guidance for national efforts, technical assistance e.g. towards training of trainers and addressing identified gaps at the national level, as well as establishing appropriate practices and structures for marine litter monitoring data management and access through COBSEA. It should also encompass support towards national level marine litter planning in the context of the COBSEA RAP MALI.

52. Regarding the UN Environment GEF project Implementing the Strategic Action Programme for the South China Sea, countries noted that updated information on project inception has not been received, and inquired about the project status. Questions were also raised regarding the modalities for project execution and the role of COBSEA in this, noting that COBSEA at the time of GEF CEO endorsement of the project was identified as an Executing Agency. Clarification on the formal role of COBSEA in the project was therefore sought. It was recommended that COBSEA be actively involved in the project, in project execution and as a mechanism for regional exchange.

### **Summary and Closing of the Meeting**

53. Mr. Jerker Tamelander, on behalf of the COBSEA Secretariat, summarized the main recommendations and follow-up actions arising from the meeting. The meeting was closed at 15:00 on 14 December 2018.

## Annex 1. Agenda

**Coordinating Body on the Seas of East Asia (COBSEA)  
Meeting of the Regional Working Group on Marine Litter  
Bangkok, Thailand  
13-14 December 2018**

### AGENDA

1. Opening of the meeting
2. Election of Chairperson and Rapporteur
3. Update on status and progress in global marine litter processes
  - i. Global Partnership on Marine Litter
  - ii. GESAMP Working Group 40 on Plastics and Micro-plastics in the Ocean;
  - iii. Ad Hoc Open-Ended Expert Group on Marine Litter and Microplastics;
  - iv. Preparations for 4<sup>th</sup> UN Environment Assembly and 3<sup>rd</sup> Forum of Ministers and Environment Authorities of Asia Pacific;
  - v. Other
4. Revision of the COBSEA Regional Action Plan on Marine Litter (RAP MALI)
  - i. Progress made in implementing the resolution adopted at COBSEA EO IGM 2;
  - ii. Next steps
5. Marine litter activities in the context of COBSEA RAP MALI
  - i. 'Reducing marine litter by addressing the management of the plastic value chain'
    - Inception phase activities;
    - Results framework;
    - Role of COBSEA Regional Working Group on Marine Litter in delivering the project
  - ii. Emerging activities by COBSEA
    - Regional Node of the Global Partnership on Marine Litter;
    - Abandoned, lost or otherwise discarded fishing gear;
  - iii. Methodology for marine plastic litter hotspot assessment
  - iv. Other marine litter related initiatives in the region
    - Updates from participants and observers
6. COBSEA Regional Working Group on Marine Litter
  - i. Terms of Reference of the Working Group
  - ii. Next meeting of the Working Group
7. Any other business
8. Summary and Closing of the Meeting

## Annex 2. List of Participants

**Coordinating Body on the Seas of East Asia (COBSEA)  
Meeting of the Regional Working Group on Marine Litter  
Bangkok, Thailand  
13-14 December 2018**

### LIST OF PARTICIPANTS

#### CAMBODIA

H.E. Mr. Thay Chantha  
Deputy Secretary General of Secretary General for  
National Committee for Cambodia Coastal Zone  
Management and Development  
Director for Department of Marine and Coastal Zone  
Conservation,  
Ministry of Environment.  
Morodok Techo Building (Lot 503), Tonle Bassac,  
Chamkamon, Phnom Penh, Cambodia  
Tel:+ 855 12877774  
Email: thaychantha@yahoo.com

#### CHINA

Mr. Pei Xiangbin  
Director Level  
Division Marine Ecosystem Protection and  
Environmental Quality Management  
Department of Ocean Ecology and Environment  
Ministry of Ecology and Environment  
No.115 Xizhimennei Nanxiaojie  
Beijing, 1000035, The People's Republic of China  
Tel: +86 10 66556276  
Fax: +86 10 66103135  
Email: pei.xiangbin@mee.gov.cn

Dr. Zhao Xiao  
South China Institute of Environmental Sciences,  
Ministry of Environmental Protection (MEP)  
NO.18, Ruihe road, Huangpu District  
Guangzhou, The People's Republic of China 510530  
Tel: +86 20 29119533  
Fax: +86 20 29119533  
E-mail: zhaoxiao@scies.org

#### INDONESIA

Ms. Anna Mutiara Krisdiana  
Head of Inventory Section  
Directorate of Coastal and Marine Pollution  
and Degradation Control  
Ministry of Environment and Forestry  
Jl. D.I. Panjaitan Kav 24, Kebon Nanas,  
Jakarta 13410, Indonesia  
Tel: +62 21 8590 4929  
Fax: +62 21 8590 5638  
Email: akrisdiana@yahoo.com

Ms. Heni Agustina  
Head of Inventory and Quality State Sub Directorate  
Directorate of Coastal and Marine Pollution and  
Degradation Control  
Ministry of Environment and Forestry  
Jl. D.I. Panjaitan Kav 24, Kebon Nanas,  
Jakarta 13410, Indonesia  
Tel: +62 21 8590 4929  
Fax: +62 21 8590 5638  
Email: heni.agustina@gmail.com

## KOREA

Dr. Kim Kyung-shin  
Marine Research Division  
Marine Policy Research Department  
Associate Research Fellow  
Korea Maritime Institute  
26, Haeyang-ro 301 beon-gil  
Yeongdo-gu, Busan 49111, The Republic of Korea  
Tel: +8251 797 4714  
Fax: +8251 797 4709  
Mobile: +8210 3375-7893  
Email: kskim@kmi.re.kr

Mr. Yunil (Kevin) Kim  
International Affairs Specialist  
International Affairs Team  
Korea Marine Environment Management  
Corporation(KOEM)  
28, Songpa-daero 28-gil, Songpa-gu  
Seoul, 05718, The Republic of Korea  
Tel: +822 3498 8583  
Fax: +822 3462 7707  
Email: Kevinkim@koem.or.kr

Mr. Park Juyoung  
Marine Litter Management Center  
28, Songpa-daero 28-gil  
Songpa-gu, Seoul 05718  
The Republic of Korea  
Tel: +822 3498 7103  
Fax: +822 3462 7707  
Mobile: +8210 5029 7126  
Email: Perseverance@koem.or.kr

## MALAYSIA

Mr. Jayaprakash Murulitharan  
Principal Assistant Secretary  
Water Pollution Management Unit  
Environmental Management and Climate Change  
Division  
Ministry of Energy, Science, Technology,  
Environment and Climate Change (MESTECC)  
Putrajaya, Malaysia  
Email: jayaprakash@mestecc.gov.my

Ms. Roziana binti Omar  
Policy and Strategic Division  
Department of National Solid Waste Management,  
Ministry of Housing and Local Government  
Malaysia  
Email: roziana@kpkt.gov.my

## PHILIPPINES

Ms. Juvinia P. Serafin  
Senior Environmental Management Specialist  
Solid Waste Management Division  
Environmental Management Bureau (EMB)  
Department of Environment and Natural Resources  
(DENR), DENR Compound Visayas Avenue  
Quezon City 1101, Philippines  
Tel: +632 920 2252, 632 920-2279  
Email: [juvypserafin@yahoo.com](mailto:juvypserafin@yahoo.com);  
[nswmc2004@yahoo.com](mailto:nswmc2004@yahoo.com)

Ms. Perseveranda-Fe J. Otico  
Senior Science Research Specialist  
Environmental Research and Laboratory Services  
Division Environmental Management Bureau  
Department of Environment and Natural Resources  
(DENR), DENR Compound Visayas Avenue  
Quezon City 1101, Philippines  
Tel: +632 426 4340, 632 426 4332  
Mobile: +63 927 3177341  
Email: [fejotico@yahoo.com](mailto:fejotico@yahoo.com);  
[percie\\_otico@emb.gov.ph](mailto:percie_otico@emb.gov.ph)

## SINGAPORE

Ms. Miak Aw Hui Min  
Senior Assistant Director  
International Policy Division  
Ministry of the Environment and Water Resources  
40 Scotts Road  
23<sup>rd</sup> Floor, Environment Building, Singapore 228231  
Tel: +65 6731 9897  
Mobile: +65 9040-5890  
Email: miak\_aw@mewr.gov.sg

Ms. Tan Joo Gian  
Senior Executive  
International Relations Department  
National Environment Agency  
Ministry of the Environment and Water Resources  
40 Scotts Road  
19<sup>th</sup> Floor, Environment Building, Singapore 228231  
Tel: +65 6731 9525  
Fax: +65 6731 9922  
Email: Tan\_Joo\_Gian@nea.gov.sg

## THAILAND

Ms. Saowalak Winyoonuntakul  
Foreign Relations Office (Senior Professional Level),  
Planning Division, Department of Marine and  
Coastal Resources,  
Ministry of Natural Resources and Environment;  
The Government Complex  
Ratthaprasasanabhakti Bldg., 8th FL,  
120 Moo 3, Chaeng Watthana Road, Laksi  
Bangkok 10210, Thailand  
Tel: +662 141 1282  
Fax: +662 143 9244  
Email: saowiny@yahoo.com

Ms. Nalinee Thongtham  
Fishery Biologist (Senior Professional Level)  
Marine and Coastal Resources Research and  
Development Institute,  
Department of Marine and Coastal Resources,  
Ministry of Natural Resources and Environment;  
The Government Complex  
Ratthaprasasanabhakti Bldg., 6th FL,  
120 Moo 3, Chaeng Watthana Road, Laksi  
Bangkok 10210, Thailand  
Tel: +662 141 1380  
Fax: +662 143 9260  
Email: nalineeth@hotmail.com

## VIETNAM

Ms. Nguyen Thanh Thao  
Deputy Director  
Department of Science, Technology and  
International Cooperation  
Vietnam Administration of Seas and Islands (VASI)  
Ministry of Natural Resources and Environment  
(MONRE)  
Room No. B204, Block B, 83 Nguyen Chi Thanh,  
Hanoi, Vietnam  
Tel: +84 (0)24 37759915  
Mobile +84 (0)915 116262  
Email: [ntthao@monre.gov.vn](mailto:ntthao@monre.gov.vn),  
[thaont96@yahoo.com](mailto:thaont96@yahoo.com)

**REPRESENTATIVES OF THE UNITED NATIONS SYSTEMS  
AND OTHER ORGANIZATIONS**

Ms. Isabelle Louis  
Deputy Regional Director and Representative for  
Asia and the Pacific, UN Environment  
UN Building, Rajadamnern Nok Avenue  
Bangkok 10200, Thailand  
Tel: +662 288 2901  
Fax: +662 280 3829  
Email: [louisi@un.org](mailto:louisi@un.org)

Mr. Jerker Tamelander  
Coordinator a.i.  
Coordinating Body on the Seas of East Asia  
Ecosystems Division, UN Environment  
United Nations Building, 2nd Floor, Block B  
Rajdamnern Avenue, Bangkok 10200, Thailand  
Tel: +662 288 1099  
Fax: +662 280 3829  
Email: [tamelander@un.org](mailto:tamelander@un.org)

Ms. Heidi Savelli  
Programme Officer  
Global Programme of Action for the Protection of  
the Marine Environment from Land-based Activities  
(GPA), Marine and Coastal Ecosystems Branch  
Division of Environmental Policy Implementation  
PO Box 30552, 00100  
Nairobi, Kenya  
Email: [heidi.savelli@un.org](mailto:heidi.savelli@un.org)

Mr. Jinhua Zhang  
Programme Officer  
Science Division, UN Environment  
United Nations Building, 2nd Floor, Block B  
Rajdamnern Avenue, Bangkok 10200, Thailand  
Tel: +662 288 2662  
Fax: +662 280 3829  
Email: [zhang6@un.org](mailto:zhang6@un.org)

Ms. Krittika Kleesuwan  
Coordinating Body on the Seas of East Asia  
Ecosystems Division, UN Environment  
United Nations Building, 2nd Floor, Block B  
Rajdamnern Avenue, Bangkok 10200, Thailand  
Tel: +662 288 1889  
Fax: +662 280 3829  
Email: [Kleesuwan.unescap@un.org](mailto:Kleesuwan.unescap@un.org)

**OBSERVERS**

**East China Normal University**

Dr. Lixin Zhu  
Ph.D Candidate  
State Key Laboratory of Estuarine and Coastal  
Research  
East China Normal University  
500 Dongchuan Road  
Shanghai 200241, P.R.China  
Fax: +86 21 6254 6441  
Email: [lixinzhu0305@hotmail.com](mailto:lixinzhu0305@hotmail.com)

**East China Normal University**

Mr. Siyuan Chang  
Assistant to Director  
Plastic Marine Debris Research Center  
State Key Laboratory of Estuarine and Coastal  
Research  
East China Normal University  
500 Dongchuan Road  
Shanghai 200241, P.R.China  
Mobile: +86 138 1621 9891  
Fax: +86 21 6254 6441  
E-Mail: [sychang@sklec.ecnu.edu.cn](mailto:sychang@sklec.ecnu.edu.cn),  
[s.chang@139.com](mailto:s.chang@139.com)

**FAO**

Mr. Matthew Camilleri  
Head, Fishing Operations and Technology Branch  
Fisheries and Aquaculture Policy and Research  
Division, Fisheries and Aquaculture Department  
Food and Agriculture Organization of the United  
Nations, Room F-612, Viale delle Terme di Caracalla-  
00153 Rome  
Tel: +39 06570 56435  
Email: [matthew.camilleri@fao.org](mailto:matthew.camilleri@fao.org)

**FAO**

Mr. Simon Nicol  
Senior Fishery Officer,  
Food and Agriculture Organization of the United  
Nations  
Regional Office for Asia and the Pacific  
Maliwan Mansion, 39 Phra Atit Road  
Bangkok 10200, Thailand  
Tel: +662 697 4141  
Email: [Simon.Nicol@fao.org](mailto:Simon.Nicol@fao.org)

**ASEAN**

Ms. Natalia Derodofa  
Senior Officer  
Environment Division, Sustainable Development  
Directorate, ASEAN Socio-Cultural Community  
Department, ASEAN Secretariat  
70A Sisingamangaraja, Jakarta  
Tel: +62-21 726 2991 ext. 278  
Email: [natalia@asean.org](mailto:natalia@asean.org)

**SEAFDEC**

Ms. Pontipa Luadnakrob  
Researcher assigned on the  
Marine Debris study of  
SEAFDEC Training Department  
Samutprakarn, Thailand  
Tel: +662 425 6138  
Email: [tipa@seafdec.org](mailto:tipa@seafdec.org)

**FAO**

Ms. Cassandra De Young  
Fishery Planning Analyst, Natural Resource  
Management (Fisheries)  
Food and Agriculture Organization of the United  
Nations, Regional Office for Asia and the Pacific  
Maliwan Mansion, 39 Phra Atit Road  
Bangkok 10200, Thailand  
Tel: +662 697 4141  
Email: [Cassandra.deyoung@fao.org](mailto:Cassandra.deyoung@fao.org)

**IUCN**

Ms. Maeve Nightingale  
IUCN Asia Regional Office  
# 63 Sukhumvit 39 Soi Phrom Phong  
Sukhumvit Road, Klongtan  
10110 Bangkok, Thailand  
Tel: + 662 662 4029 -33  
Fax: + 662 662 4388  
E-mail: [Maeve.NIGHTINGALE@iucn.org](mailto:Maeve.NIGHTINGALE@iucn.org)

**SEAFDEC**

Mr. Isara Chanrachkij  
Researcher and Development Division Head  
Research and Development Division  
SEAFDEC Training Department  
Samutprakarn, Thailand  
Tel: +662 425 6140  
Email: [isara@seafdec.org](mailto:isara@seafdec.org)

**NUS**

Ms. Youna LYONS  
Senior Research Fellow  
Ocean Law and Policy Programme  
Centre for International Law (CIL)  
National University of Singapore  
Email: [younalyons@nus.edu.sg](mailto:younalyons@nus.edu.sg)  
Tel: +65 9005 2437