
**Northwest
Pacific
Action Plan**

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NOWPAP-TEMM Joint
Workshop on Marine
Litter Management

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2018 NOWPAP-TEMM Joint Workshop on Marine Litter Management

Busan, Republic of Korea

4 June 2018

**Summary of the 2018 NOWPAP-TEMM Joint Workshop on Marine Litter
Management and 2018 NOWPAP International Coastal Cleanup Campaign**



**NOWPAP-TEMM Joint Workshop on Marine Litter Management and 2018
NOWPAP International Coastal Cleanup Campaign**

4-5 June 2018

Busan, Republic of Korea



Organized by:

NOWPAP Regional Coordinating Unit (RCU)

Co-organized by:

Ministry of Oceans and Fisheries (MOF) of the Republic of Korea,
Korea Environment Management (KOEM) Corporation
Our Sea of East Asian Network (OSEAN)

Supported by:

Busan Metropolitan City Government

Opening Ceremony

1. NOWPAP-TEMM Joint Workshop on Marine Litter Management was held in Hotel Homers, Busan, Korea on 4 June 2018. Ms. CHANG Myo In, Director of Marine Conservation Division, Ministry of Oceans and Fisheries, Republic of Korea, Mr. Gyu Yeol HAN, the Director for Marine Industry Division of Busan Metropolitan City of Republic of Korea, and Dr. Lev Neretin, the Senior Coordinator for NOWPAP RCU, gave opening addresses and welcomed the participants.

Session 1: Progress on Marine Litter Management in the NOWPAP region (policy changes, updated statistics, new approaches)

2. The Session 1 was chaired by Mr. Woo-Rack SUH, Korea Marine Environment Corporation, Dr. Qingjia MENG, on behalf of China's RAP MALI focal point, presented "*Progress in addressing marine litter in China*". He introduced the progress of "The Action Plan for Preventing and Treatment of Water Pollution", "Action Plan for Preventing and Treatment of Offshore Pollution", and "Mandatory Garbage Classification". The 2018 National Actions include the institutional reform of the State Council, and various national pollution prevention and reduction activities spanning from 2018-2020.
3. Dr. Kanako SATO delivered her presentation on "*Progress in addressing marine litter in Japan*". 27 million US dollars were allocated by the Japanese government to clean up the Japanese coasts in 2016. In addition, she reported about the Ministry of Environment of Japan support for marine litter and microplastics research and presented summary of the 2017 survey. In 2017, Japan expanded the marine litter observation area and the network of monitoring stations. Observations included measuring floating marine debris and microplastics concentrations in the northwestern Pacific as well as in areas surrounding Japan by using 5 research vessels. In 2018, the Ministry supported a pilot project aimed to estimate the "sampling error" by conducting simultaneous/parallel net-samplings of microplastics in different laboratories, including in four NOWPAP member states.
4. Mr. Woo Rak SUH presented "*Progress in addressing marine litter in R. Korea*". He introduced the focus and objectives of the "3rd National Marine Litter Management Plan (2019-2023)" being currently developed taking into account lessons learned during the implementation of the 2nd National Marine Litter Management Plan (2014-2018). Korea's recent projects to combat marine litter include estimating the volume of marine litter sources and sinks at the national level (the first of its kind national assessment in the world), a national marine litter monitoring program, public awareness raising, and various activities supporting international cooperation. Recent marine litter issues facing Korea include enforcement of marine litter related policies; establishment of management foundation for marine litter led by local stakeholders; participation of R. Korea in international efforts to combat plastic marine litter and micro plastics; expansion of resource management and recycling policies, including recycling of the marine litter waste.
5. Mr. Nikolai KOZLOVSKII from the NOWPAP POMRAC presented report entitled "*Rivers as a source of microplastic contamination of the marine environment*."

Current studies in the Russian Far East". He summarized the survey methods and findings of the field study in the Peter the Great Gulf. All plastics collected smaller than 5 mm were classified as microplastics (MP) and were characterized by their polymer composition. The findings suggest that microplastics found in the Russian coastal areas of the Far East were mostly made up of polyethylene (PE), with polystyrene (PS), and polypropylene (PP) making up the remaining majority of MP. Mr. KOZLOVSKII suggested the three major source categories of these MP that vary with sites and seasons: litter generated from summer recreational activities, transboundary litter input with river runoff from land and fisheries and aquaculture, and litter originated locally from the untreated wastewater and municipal solid waste.

6. Dr. Sergey MONINETS presented "*Results of the Year of Ecology in the Russian Federation. Central and local government's efforts*". The efforts of central and local governments during the 2017 Year of Ecology in the Arctic, the Russian Far East, and other Russian regions were presented. Dr. MONINETS concluded that despite continued efforts to eliminate environmental pollution problems in Russia, the marine pollution and marine litter has not been perceived as a high priority in the country in general and in the Russian Far East. Further efforts, particularly at strengthening solid waste management policies and increasing investments in this area would make an important contribution to combatting marine litter country-wide.

Session 2: Addressing challenges of abandoned, lost or otherwise discarded fishing gear (ALDFG) in fisheries and aquaculture

7. The session 2 was chaired by Dr. Jongmyoung Lee from OSEAN. Ms. Joanna TOOLE from the Food and Agriculture Organization of the United Nations (FAO), delivered her presentation "*The development of best practice measures to reduce ALDFG and its impacts at the global level – an update on progress from the Food and Agriculture Organization of the United Nations*", remotely. She informed the meeting about the FAO Committee on Fisheries (COFI) will consider for the adoption International Voluntary Guidelines on the Marking of Fishing Gear and the recommendations regarding further work at its next session on July 9 to 13th 2018 in Rome, Italy. Ms. Toole also informed participants about the development of a global umbrella programme on environmental issues associated with fishing operations with a particular emphasis on ALDFG in accordance with any specific guidance provided by COFI. The global programme will aim to support the implementation of the guidelines on the marking of fishing gear and other actions to reduce ALDFG including the development of national action plans. Recognizing that action plans on marine litter already exist in many parts of the world, however in many cases there is not as much emphasis on addressing sea-based sources of marine litter as there are on land based sources so Ms. Toole suggested it would be important to look at to what extent ALDFG is addressed within existing action plans and to what extent critical fisheries stakeholders such as RFMOs are engaged in the development of these national plans. The global programme will comprise a partnership framework from which different projects funded by different sources will be developed. Projects are likely to be regional or national depending on the parameters designed by the project. FAO aims to strengthen inter-agency

cooperation on marine litter through this project, for example through the increased collaboration with UNEP and IMO.

8. Dr. Sunwook HONG from OSEAN reported the “*Results and findings of the 10-year Korea Marine Debris Monitoring Program: Focusing on derelict fishing gears*”. She stated that clear decreasing trend of concentrations of marine litter on Korean beaches was found, especially of aquaculture-origin debris which had been the most abundant items in domestic debris. Ministry of Oceans and Fisheries (MOF) of Republic of Korea will release the results of this assessment soon.
9. Ms. Daria ZADOYA’s “*Assessment of the risks of marine pollution from the fishing industry in the Russian NOWPAP sector*” presentation analyzed the fishing potentials and the marine litter effects on the fishing practices of the four major NOWPAP Russian areas: Primorskij kraj, Khabarovskij kraj, Magadanskaja oblast’, Sakhalinskaja oblast’. Ms. ZADOYA’s conclusions are that tourism and industrial waste are major sources of marine litter compared to the fisheries industry in the Russian Far East. The coastal areas near nature reserves have the highest risks to marine litter pollution, while current legal regulations of aquaculture activities do not take into account ecological damage. However, some progress is expected in the near future.

Session 3: From global to regional to local action

10. The session 3 was chaired by Dr. Lev Neretin. He reported about the “*UN Environment response to marine litter: Progress since the last NOWPAP-TEMM Workshop in 2017*” which included progress of activities of the Global Partnership on Marine Litter (GPML), #CleanSeas Campaign and Other Activities, and the follow up to UNEA-3 Resolutions.
11. Mr. Zhengguang ZHU introduced YSLME’s Phase II Project titled “UNDP/GEF Implementing the Strategic Action Programme for the Yellow Sea Large Marine Ecosystem: Restoring the Ecosystem Goods and Services and Consolidation of A Long-term Regional Environmental Governance Framework”. The outcomes of the projects are “Ecosystem health improved through a reduction in pollutant discharge from land-based sources”, “Wider applications of pollution-reduction techniques piloted at demonstration sites”, “Strengthened legal and regulatory processes to control pollution”, “Marine litter controlled at selected locations” and “Applications of ecosystem-based community management preparing risk management plans to address climate variability and coastal disasters”.
12. Dr. Peter KERSHAW from GESAMP could not be present at the 2018 NOWPAP-TEMM Workshop. Thus, with his permission, his presentation “Fisheries and aquaculture – an overlooked sector in the marine litter challenge?” was presented remotely. He highlighted that “ALDFG has both direct and indirect costs on fisheries (revenue, food security); Fisheries & aquaculture represent one major sources of marine litter worldwide; ALDFG has significant environmental impact; Significant regional differences in sources and impacts; It is important to make wider society aware of importance in including fisheries & aquaculture sector in addressing the marine litter challenge.”

13. Ms. Marina SAKAI and Ms. Wandi HUANG from the Trilateral Cooperation Secretariat made a presentation entitled “Promoting China-Japan-Korea Cooperation: Environment and Sustainable Development”. They summarized the history and development of the Trilateral Cooperation Secretariat (TCS), along with the TCS’s involvement in the Sustainable Development Goals (SDGs). The most recent program TCS has developed is the “1st Trilateral Teacher’s Exchange Program on Public Awareness”, which provides tools for teachers to enhance environmental awareness among students and builds a community of practice among environment-teaching instructors and government officials from the environment ministries.
14. Mr. Sang Soon MYUNG reported on the “*Progress on cooperation on marine litter within the framework of TEMM*”. He provided an update to the 4th TEMM Marine Litter (ML) Focal Point Meeting (FPM). Mr. MYUNG reviewed the 4th TEMM ML FPM and plans for the 5th TEMM ML FPM. The 5th TEMM ML FPM will be holding TEMM ML Workshop and TEMM ML FPM in 2019; it will also be holding TEMM scientists Workshop in 2019; and lastly, a discussion will be held about the participation of TEMM in the NOWPAP Special project.

Presentations from NGOs

15. Dr. Jongmyoung LEE’s presentation entitled “Asia-Pacific Civil Forum on Marine Litter: Civil societies’ effort to reduce global impact” offered an overview on the Asia Pacific-Civil Forum and gave three suggestions as how to become involved: the Civil Forum can be utilized to build a network; the Civil Forum can be utilized to be involved in the Global Ghost Gear Initiative (GGGI); and lastly there is a possibility to join monthly webinars and contribute to a newsletter.
16. Mr. Muntasir MAMUN from Kewkradong Bangladesh addressed “*Fishing activities, Gears, Fishermen, and fishing industry of Bangladesh*”. He reported that Bangladesh’s annual aquaculture production exceeds South Korea, and Japan. Furthermore, the aquaculture in Bangladesh makes up for more than half of the fisheries production in Bangladesh, and is showing a growth rate exceeding fishing. Despite the dominant and growing industry of aquaculture, derelict fishing gears poses a problem in Bangladesh. The fishing gear is abandoned by the local fishermen who are not educated about the impacts of the lost fishing gears on the marine environment.
17. Ms. Nguyen Thi Thu TRANG from GreenHub Vietnam discussed “*Vietnam local actions to address marine litter in fisheries.*”, including country’s efforts such as “Vietnam waste management, marine debris, plastic pollution”, “Showcases of GreenHub-Vietnamese NGOs activities”, “Recommendations and collaboration to address marine litter.”
18. Ms. Chieko AZUMA from JEAN delivered her presentation on “*Derelict Oyster Farming Gear*”. Ms. Azuma brought the case from the northwest Hawaii, USA, with regards to the derelict oyster farming gear that are drifting from Hiroshima Bay, Japan. Oyster farms in Hiroshima region have traditionally used bamboo which were replaced with plastic pipes in recent years. This farming methods and plastic pipes are not isolated incidents observed in Hiroshima; this farming methods have

spread to other regions. Ms. AZUMA reported that Hiroshima Prefecture has yet to take measures against these plastic pipes.

19. Following the 2018 NOWPAP-TEMM Workshop, NGO participants from the NOWPAP region and South-East Asia hold a separate meeting sharing lessons learned and experiences on the management of marine litter and how NOWPAP could support the efforts of civil society in the region and beyond with best practices and knowledge sharing.

Closing

20. The workshop was closed at 17:10 on 4 June 2018.

018 NOWPAP-TEMM workshop are available at the following webpage:

<http://web.unep.org/nowpap/meetings/calendar/nowpap-temm-joint-workshop-marine-litter-management-2018-nowpap-international>

2018 NOWPAP International Coastal Cleanup Campaign

5 June 2018, Busan, R. Korea



21. Coastal cleanup activities were conducted at the Haeundae Beach in Busan City. All workshop participants attended the 2018 ICC campaign. NOWPAP participants were joined by local NGOs and eighty junior school students of the [Dongcheon Elementary School](#). Haeundae Beach is a city tourist attraction hotspot. The community leader introduced their regular cleanup activities and described local characteristics of marine litter. Following the introduction, under supervision of the director of OSEAN, participants have collected marine litter and recorded the type and quantity of marine litter into a log, which would later be compiled and reported to Ocean Conservancy. After collecting marine litter, for the first time in NOWPAP ICCs, OSEAN staff demonstrated to participants how to separate microplastics particles in beach samples. Local media, KBS and YTN, were present at the ICC 2018 and reported about the beach cleanup campaign to the local newspaper. The news about 2018 NOWPAP ICC were also covered by UNEP: <https://www.unenvironment.org/news-and-stories/featured-article/school-children-team-un-and-ngos-clean-busan-beach-world>.

About 70 local people together with NOWPAP officials and civil society groups took part in the International Coastal Clean-up Campaign (ICC). A total of 51 kg of litter, including fishing rods and nets and styrofoam boxes were collected. The Busan ICC was the latest in a series of such events organized by NOWPAP annually on the Northwest Pacific beaches of its member states. The ICCs are part of the NOWPAP Regional Action Plan on Marine Litter launched in March 2008 to prevent the entry of litter into seas and coasts, monitor marine litter quantities and its distribution, and remove/dispose marine litter. The 2018 NOWPAP ICC was conducted on 2018 World Environment Day (WED) under the theme “Beat Plastic Pollution” encouraging people worldwide to take a critical look at their own relation to single-use plastic and make real efforts to break their dependency on disposable plastic.

ANNEX 1: Agenda of the meeting

NOWPAP-TEMM Joint Workshop on Marine Litter Management and 2018 NOWPAP International Coastal Cleanup (ICC) (Busan, Republic of Korea, 4-5 June 2018)

**Monday, 4th June 2018: NOWPAP-TEMM Joint Workshop on Marine Litter
Management**

Venue: Seminar Hall, 19th Floor, Hotel Homers

Organizer: NOWPAP Regional Coordinating Unit (RCU)

Co-organizer: Ministry of Oceans and Fisheries of the Republic of Korea,
Korea Environment Management Corporation,
Our Sea of East Asia Network (OSEAN)

Supporters: Busan Metropolitan City Government

08.30 – 09.00

Registration

09.00 – 09.30

Opening Ceremony

H.E. Mr. Seung Hwan CHO, Deputy Minister for
Marine Policy Office, Ministry of Oceans and
Fisheries, Republic of Korea

Mr. Gyu Yeol HAN, Director, Marine Industry Division,
Busan Metropolitan City, Republic of Korea

Dr. Lev Neretin, Senior Coordinator, NOWPAP RCU

Group Photo

Session 1. Progress on Marine litter Management in the NOWPAP region (policy changes, updated statistics, new approaches)

Presentations of 15 min followed by Q&A 5 min

Chair: Mr. Woo-Rack SUH, Korea Marine Environment Corporation

- 09:30 – 09:50 *Progress in addressing marine litter in China*
Dr. Ruizhi LIU, State Key Laboratory of
Environmental Criteria and Risk Assessment, Chinese
Research Academy of Environmental Sciences
- 09:50 – 10:10 *Progress in addressing marine litter in Japan*
Dr. Kanako Sato, Deputy Director, Office of
Marine Environment, Water Environment Division,
Environmental Management Bureau, Ministry of the
Environment, Japan
- 10:10 – 10:30 *Progress in addressing marine litter in Korea*
Mr. Woo- Rack SUH, Korea Marine Environment
Corporation
- 10:30 – 10:45 *Rivers as a source of microplastic contamination of
the marine environment. Current studies in the
Russian Far East*
Mr. Nikolay KOZLOVSKIY, Engineer, Pollution
Monitoring Regional Activity Centre (POMRAC)
- 10:45 – 11:00 *Results of the year of ecology in the Russian
Federation. Central and local government's efforts*
Dr. Sergei MONINETS, Dean of the Department of
Ecological Safety and Shelf Development, Maritime
State University named after G.I. Nevelskoi, Russia
- 11:00 – 11:20 Q&A and brief summary of the session
- 11:20 – 11:40 **Coffee break**

Session 2. Addressing challenges of abandoned, lost or otherwise discarded fishing gear (ALDFG) in fisheries and aquaculture

Presentations of 15 min followed by Q&A 5 min
Chair: Dr. Jongmyoung Lee, OSEAN

- 11:40 – 12:00 *The development of best practice measures to reduce ALDFG and its impacts at the global level – an update on progress from the Food and Agriculture Organization of the United Nations (video presentation)*
Ms. Joanna Toole, Food and Agriculture Organization of the United Nations, Italy
- 12:00 – 12:20 *Results and findings of the 10-year Korea Marine Debris Monitoring Program: Focusing on derelict fishing gears*
Dr. Sunwook Hong, President of OSEAN
- 12:20 – 12:40 *Assessment of the risks of marine pollution from the fishing industry in the Russian*
Daria ZADOYA, Associate Professor at the Department of Oil and Gas Industry safety, The Maritime State University.
- 12:40 – 13:00
PPT from China(TBC)
- 13:00 – 14:00 **Lunch at Dining Hall, 2nd Floor, Homers Hotel**

Chair: Dr. Lev Neretin, NOWPAP RCU
- 14:00 – 14:30 Roundtable discussion on research gaps/response and the role of NOWPAP in addressing ALDFG and summary of the session

Session 3. From global to regional to local action

Presentations of 15 min followed by Q&A 5 min
Chair: Dr. Lev Neretin, NOWPAP RCU

- 14:30 – 14:40 *UN Environment response to marine litter: Progress since the last NOWPAP-TEMM Workshop in 2017*

Dr. Lev Neretin, NOWPAP RCU

- 14:40 – 14:50 *Presentation from YSLME Phase II*
Mr. Zhu Zhengguang, Environment Officer, YSLME Phase II, UNOPS
- 14:50 – 15:00 *Fisheries and aquaculture - an overlooked sector in the marine litter challenge? (video presentation)*
Peter Kershaw, GESAMP
- 15:00 – 15:10 *Promoting China-Japan-Korea Cooperation: Environment and Sustainable Development*
Ms. Marina Sakai, Ms. Wandu Huang, Economic Affairs Officers from Trilateral Cooperation Secretariat
- 15:20 – 15:40 *Progress on cooperation on marine litter within the framework of TEMM: Update since the last meeting*
Mr. Sang-Soon MYUNG, Deputy Director, Marine Conservation Division Ministry of Oceans and Fisheries, Republic of Korea
- 15:20 – 15:25 Introduction of ICC, Mr. Jongmyoung Lee, OSEAN
- 15:40 – 16:30 Presentations from NGOs
Asia-Pacific Civil Forum on Marine Litter: Civil societies' effort to reduce global impact
Dr. Jongmyoung Lee, Korea Marine Litter Institute, OSEAN
- Fishing activities, Gears, Fishermen, and Fishing industry of Bangladesh*
Mr. SM Muntasir Mamun, Kewkradong Bangladesh
- Vietnam local actions to address marine litter in fisheries.*
Ms. Nguyen Thi Thu Trang, GreenHub Vietnam
- Derelict Oyster Farming Gear,*
Chieko Azuma, JEAN
- Coffee break
- 16:30 – 17:00 Roundtable discussion and summary of the workshop (Chair summaries: Mr. Woo-Rack SUH and Dr. Lev Neretin)

17:00 – 17:10

Closing

18:40 – 20:00

Reception at Homers Hall, 20th Floor

Tuesday, 5th June 2018

**International Coastal International Coastal Cleanup (ICC) at Haeundae
Cleanup Beach_(eastern end of the beach, Mipo
pier)_coordinated by OSEAN**

- | | |
|-------------------|--|
| 09:00 (sharp) | Bus leaves the Hotel Homers for ICC 2018 |
| Ca. 09:30 – 10:00 | Opening remarks and introduction to ICC
Dr. Lev Neretin, NOWPAP RCU
Mr. Jongmyoung Lee will explain how to do ICC with
consequent translation of OSEAN. |
| 10:00 – 11:30 | Beach cleanup (all participants) and group photo |
| 11:30 – 12:30 | Lunch at the beach and ending of ICC |
| 13:00 | Bus returns to the hotel for RAP MALI FP Meeting
/NGO Forum |

ANNEX 2: List of meeting participants

People's Republic of China

Mr. Xiangbin PEI

Director

Ministry of Ecology and Environment of the People's Republic of China

Mr. QingJia MENG

Associate Professor

Chinese Research Academy of Environmental Sciences

Ministry of Environmental Protection (MEP)

Mr. Hao WANG

Vice Director

Dalian Environmental Protection Bureau

Mr. Dawei SONG

Section Chief

Dalian Environmental Protection Bureau

Japan

Ms. Kanako SATO

Deputy Director

Ministry of the Environment Japan (MoEJ)

Ms. Ayako KANEKO

Researcher

Ministry of the Environment Japan (MoEJ)

Ms. Chieko AZUMA

International Coordinator

JEAN

Republic of Korea

Mr. Sang Soon MYUNG

Deputy Director

Ministry of Oceans and Fisheries (MOF)

Mr. Kyung Shin KIM

Associate Research Fellow

Korea Maritime Institute (KMI)

Ms. Jinsung MOCK

Assistant Manager

Korea Marine Environment Management Corporation (KOEM)

Russian Federation

Mr. Sergey MONINETS

Dean of the Department of Ecological Safety and Shelf Development,
Maritime State University named after G.I. Nevelskoi, Russia

Ms. Daria ZADOIA

Associate Professor
The Department of Oil and Gas Industry safety
The Maritime State University.

UNEP NOWPAP RCU

Mr. Lev NERETIN

Senior Coordinator
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Mr. Ning LIU

Programme Officer
NOWPAP RCU

Ms. Jihee Yi

Programme Management Assistant
NOWPAP RCU

Mr. Hayun JEONG

Intern
NOWPAP RCU

NOWPAP RACs

Mr. Seong-Gil KANG

Director
NOWPAP MERRAC

Mr. Feng YAN

Director
NOWPAP DINRAC

Mr. Anatolii KACHUR

Director
NOWPAP POMRAC

Mr. Takafumi YOSHIDA

Senior Researcher
NOWPAP CEARAC

Mr. Nikolai KOZLOVSKII

Engineer
NOWPAP POMRAC

Ms. Joung Yun LEE

Consultant
NOWPAP MERRAC

Eiji Nakamura

Intern
CEARAC
University of Tokyo

Partners

Mr. Zhengguang ZHU

Environment Officer
Yellow Seas Large Marine Ecosystem (YSLME)

Observers

Ms. Wandi HUANG

Economic Affairs Officer
Department of Economic Affairs
Trilateral Cooperation Secretariat (TCS)

Ms. Marina SAKAI

Economic Affairs Officer
Department of Economic Affairs
Trilateral Cooperation Secretariat (TCS)

Ms. Myo In CHANG

Director
Marine Conservation Division
Ministry of Oceans and Fisheries (MOF), Korea

Mr. Hee Jae LEE

Assistant Director
Marine Conservation Division
Ministry of Oceans and Fisheries (MOF), Korea

Ms. Eun Jung KWAK

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Korea Marine Environment Corporation (KOEM)

Mr. Weon Cheon CHOI

Assistant Manager
Marine Debris Management Team
Korea Marine Environment Corporation (KOEM)

Mr. Woo Rak SUH

Assistant Manager
Marine Debris Management Team
Korea Marine Environment Corporation (KOEM)

NGOs

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GreenHub
Vietnam

Mr. Muntasir MAMUN
Kewkradong
Bangladesh

Ms. Sunwook HONG
Director
Our Sea of East Asian Network (OSEAN)

Mr. Jongmyoung LEE
Chief Science Officer
Our Sea of East Asian Network (OSEAN)

Ms. Para DO
Researcher
Our Sea of East Asian Network (OSEAN)

Ms. Shinyeong PARK
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Ms. Mijeong LEE
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Our Sea of East Asian Network (OSEAN)

Ms. Jongsu LEE
Researcher
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Busan, Republic of Korea