

3RD YSLME SCIENCE CONFERENCE

15-19 July 2019
Qingdao, PR China

PROVISIONAL PROGRAMME



Implementing the Strategic Action Programme for the Yellow Sea Large Marine Ecosystem:
Restoring Ecosystem Goods and Services and Consolidation of a Long-term Regional
Environmental Governance Framework (UNDP/GEF YSLME Phase II Project)

3rd YSLME Science Conference

The 3rd YSLME Science Conference is the biggest gathering of stakeholders for this year in support of Yellow Sea conservation and sustainability. The Conference will run from July 15-19, 2019 at Qingdao, PR China. The Conference will showcase a Plenary Session, 4 Parallel Events focusing on Fisheries, Biodiversity, Marine Litter and Microplastics, and Nutrient Management in YSLME. An Ad Hoc Meeting of the YSLME Interim Commission Council and the Workshop on YSLME Strategic Action Program (SAP) update will also be conducted during the event.

Objectives

- Release the initial scientific findings of the research projects funded by UNDP/GEF YSLME Phase II Project;
- Facilitate the scientific exchanges and collaborative research within the scientific community of countries bordering the YSLME; and
- Contribute to the update process of the transboundary diagnostic analysis (TDA) and strategic action programs (SAP) of the YSLME.

Hosts

- UNDP
- UNOPS

Organizers

- First Institute of Oceanography (FIO), Ministry of Natural Resources, PR China
- National Marine Environmental Monitoring Center (NMEMC), Ministry of Ecology and Environment, PR China
- Ministry of Oceans and Fisheries (MOF), RO Korea
- Korea Marine Environment Management Corporation (KOEM), RO Korea
- Korean Institute of Ocean Science and Technology (KIOST), RO Korea
- Yellow Sea Fisheries Research Institute (YSFRI), Chinese Academy of Fishery Science, PR China, Ministry of Agriculture and Rural Affairs (MARA), PR China
- West Sea Fisheries Research Institute (WSFRI), National Institute of Fisheries Science (NIFS), Ministry of Oceans and Fisheries (MOF), RO Korea

Schedule of the 3rd YSLME Science Conference, the ad hoc Interim YSLME Commission Council and the Workshop on Update of YSLME SAP

(July 15-19, 2019 • Qingdao, PR China)



With Lunch Break



With Coffee Break



The event is by invitation only

DAY 1: July 15 (Monday)

09:00 – 12:00 Plenary session 	13:30 – 18:00 Ad hoc ICC  	13:30 – 18:00 Parallel event 1: Fisheries 	13:30 – 18:00 Parallel event 2: Biodiversity 
18:30 – 20:00 Reception Dinner			




DAY 2: July 16 (Tuesday)

09:00 – 12:00 Ad hoc ICC  	09:00 – 18:00 Parallel event 1: Fisheries  	09:00 – 18:00 Parallel event 2: Biodiversity  	13:30 – 18:00 Workshop on update of YSLME SAP 
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DAY 3: July 17 (Wednesday)

09:00 – 18:00 Parallel event 2: Biodiversity  	09:00 – 18:00 Workshop on update of YSLME SAP  
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DAY 4: July 18 (Thursday)

09:00 – 12:00 Workshop on update of YSLME SAP 	13:30 – 18:00 Parallel event 3: Marine litter 	13:30 – 18:00 Parallel event 4: Nutrients 
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DAY 5: July 19 (Friday)

09:00 – 15:30 Parallel event 3: Marine litter  	09:00 – 12:00 Parallel event 4: Nutrients 
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Plenary Session

09:00 - 12:00; 15 July 2019

TENTATIVE PROGRAM

07:30 - 08:40 **Registration**

09:00 - 09:10 **Welcome Remarks**
UNDP China (TBD)

09:10 - 10:20 **Congratulatory Remarks (10 mins each)**

Speaker 1: TBD

Department of Early Warning and Monitoring, MNR,
PR China

Speaker 2: TBD

Department of Marine Environment Protection, Ministry
of Ecology and Environment (MEE), PR China

Speaker 3: TBD

Department of Protected Areas, National Forestry and
Grassland Administration (NFGA), PR China

Speaker 4: TBD

Marine Policy Office, Ministry of Oceans and Fisheries,
RO Korea

Speaker 5: TBD

Department of Climate Change and Environment,
Ministry of Foreign Affairs (MOFA), RO Korea

10:20 - 10:30 **Opening Remarks**
UNOPS

10:30 - 11:00 Coffee Break

11:00 - 12:00

Keynote Speeches

Keynote 1

State of the YSLME after 10 years of implementation of the YSLME Strategic Action Programme

Prof. Paul GREMILLION, International Consultant, UNOPS

Keynote 2

Re-architecting the regional ocean governance for YSLME

Dr. Jungo NAM, Director, MSP Research Center, Korea Maritime Institute, RO Korea

Keynote 3

Evolving scientific research needs for advancing ecosystem-based management of the YSLME

Dr. Zhifeng ZHANG, Deputy Director General of National Marine Environmental Monitoring Center, Ministry of Ecology and Environment, PR China

Contact persons

- Ms. Kathrine Rose Gallardo-Aguiling, Consultant Event Specialist, UNOPS
Email: krsgallardo@gmail.com
- Ms. Yifei Li, Administrative Assistant, UNOPS
Email: yifeiL@unops.org

Parallel Event 1

China-Korea Fisheries Science and Technology Cooperation and Exchange

(14:00 - 18:00, July 15; 09:00 - 18:00, July 16, 2019)

Co-organizers:



Yellow Sea Fisheries Research Institute (YSFRI), Chinese Academy of Fishery Science, Ministry of Agriculture and Rural Affairs (MARA), PR China



West Sea Fisheries Research Institute (WSFRI), National Institute of Fisheries Science (NIFS), Ministry of Oceans and Fisheries (MOF), RO Korea

Contact persons

- Mr. Jiakun XU, Deputy Director, Division of Scientific Planning and Project Administration, Yellow Sea Fisheries Research Institute (YSFRI), Chinese Academy of Fishery Science, Ministry of Agriculture and Rural Affairs (MARA), PR China.
Email: xujk@ysfri.ac.cn
- Mr. MinJi CHOI, West Sea Fisheries Research Institute (WSFRI), National Institute of Fisheries Science (NIFS), Ministry of Oceans and Fisheries (MOF), RO Korea
Email: ming85@korea.kr

Parallel Event 2

YSLME Biodiversity Forum – Charting the Biodiversity Conservation in the YSLME up to 2030

14:00 – 18:00, July 15; 09:00 – 18:00, July 16–17, 2019

Co-organizers:



안양대학교

Anyang University,
RO Korea



First Institute of Oceanography
(FIO)/Ministry of Natural
Resources (MNR), PR China



Korea Marine Environment
Management Corporation
(KOEM), RO Korea



International Union for
Conservation of Nature and
Natural Resources (IUCN)



East Asian Australasian
Flyway Partnership
(EAAFP)

Sponsors:

Department of Protected Areas
of the National Forestry and
Grassland Administration
(NFGA), PR China

Marine Policy Office of
Ministry of Oceans and
Fisheries (MOF) of RO Korea

Fisheries Management
Bureau of the Ministry of
Agriculture and Rural Affairs,
PR China

United Nations
Development
Programme (UNDP)

Background

The biodiversity in particular the intertidal mudflats in the Yellow Sea (YS) including the marine ecosystems services is unparalleled in the world but has already been changing due to the continued urban and coastal developments. Increasing demand for water, the damming of rivers, the dumping and accumulation of various pollutants, and invasive species continue to threaten the coastal and marine ecosystems. Coastal reclamation and other forms of land conversion have changed coastal habitat. These drivers have resulted in loss of biodiversity and ecosystem services which in return are affecting the well-being and livelihoods of people in the YS.

To effectively respond to the changing circumstances and chart the future of biodiversity in YS, UNDP/GEF YSLME Phase II Project is supporting the countries bordering the Yellow Sea to develop and implement a regional biodiversity conservation plan up until 2030. The parallel event of **Charting the Biodiversity Conservation in the YSLME up to 2030** at the 3rd YSLME Science Conference is meant to support the development and adoption of YSLME Biodiversity Conservation Plan covering 2020-2030 to contribute to the implementation of SDGs.

Objectives

- To understand status of biodiversity in YS following the 2007 TDA
- To capture accomplishment of best practice and knowledge in enhancing resilience of biodiversity and ecosystem of the YS by strengthening the coverage and connectivity of MPAs
- To reach consensus on measures to be taken to reduce the loss of coastal and marine habitats and species of critical global and regional significance in support of achieving SDG 14 and implementing CBD, RAMSAR and other relevant Conventions.

Expected Outcomes

- Strengthened partnership in biodiversity conservation and sustainable use in YS among governments, academia and NGOs
- Improved awareness among the public of the threats and status of biodiversity of YSLME
- Consensus on the way forward and concerted actions and targets of the draft YSLME Biodiversity Conservation Plan (2020-2030)
- Better understanding of the connectivity patterns of the YSLME MPA Network

Contact persons

- Dr. Gyung Soo PARK, Dean, College of Letters and Science, Department of Marine Biotechnology, Anyang University
Email: gspark@anyang.ac.kr
- Dr. Fangyuan QU, Associate Researcher, First Institute of Oceanography, Ministry of Natural Resources, PR China
Email: qfy@fio.org.cn

TENTATIVE PROGRAM

14 July

Arrival and registration for participants

DAY 1: 15 July (Monday)

13:30-13:50

Opening address

- Department of Protected Areas of the National Forestry and Grassland Administration (NFGA), PR China
- Marine Environment Policy Office, Ministry of Oceans and Fisheries (MOF), RO Korea
- Institute of Oceanology, Chinese Academy of Sciences (IOCAS), PR China (TBD)

Moderator:

Dr. Zhaohui ZHANG, Professor, FIO/MNR, PR China

13:50 – 15:30

Session 1: Global, regional and national priorities in application of ecosystem-based management of the YSLME

Session Moderator:

Dr. Dirk LAMBERTS, Environment Specialist, UNOPS

Rapporteur: **Dr. Fangyuan QU**, FIO/MNR, PR China

- **Marine biodiversity conservation in PR China up to 2020: achievements and new agenda**
Dr. Linlin ZHAO, FIO/MNR, PR China
 - **Marine ecosystem conservation of RO Korea in 2019-2028: Strategy and priority**
Dr. Jongseong RYU, Anyang University, RO Korea
 - **Globally significant biodiversity in north coast of Yellow Sea in DPR Korea**
Mr. David Melville, Global Flyway Network
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- **Marine mammals and fish species conservation in the Yellow Sea**

Mr. Yingran LI, CAFS, MARA, PR China

Panel discussion: National priorities, achievements and future agenda

15:30 - 16:00

Coffee break

16:00 - 18:00

Session Moderator:

Dr. Xiubo YU, IGSNRR/CAS, PR China

- **Post-2020 Biodiversity framework - reflections of ongoing discussions**

Dr. Dirk Lamberts, Environment Specialist, UNDP/GEF YSLME Phase II Project

- **Activities on marine biodiversity conservation in the NOWPAP region**

Dr. Takafumi YOSHIDA, CEARAC/NOWPAP

- **Implementation of the IUCN resolutions in relation to Yellow Sea - status and progress**

Mr. Raphaël Glémet, IUCN (TBC)

- **Initiatives of the East Asian-Australasian Flyway Sites Network in the Yellow Sea**

Dr. Zeng QING, Science Officer of Science Unit, EAAFP

Panel discussion: Regional reflections to post-2020 biodiversity agenda for the YSLME

18:00

Dinner reception

DAY 2: 16 July (Tuesday)

09:00 – 10:30

Session 2: Framework of biodiversity conservation planning in YSLME up to 2030

Session Moderator:

Dr. Bong-Oh KWON, Seoul National University, RO Korea

Rapporteur: **Mr. Young Nam KIM**, KOEM, RO Korea

- **Proposal of YSLME biodiversity conservation plan in PR China**
Prof. Zhaohui ZHANG, FIO/MNR, PR China
- **Proposal of YSLME biodiversity conservation plan in RO Korea**
Dr. Won-Tae SHIN, CEO, Global Ocean Inc.

Open discussion: Framework, priorities in geographical areas, species, ecosystems, and instruments, tools and mechanisms

10:30 – 11:00

Coffee break

11:00 – 12:00

Session 3: Strengthening the YSLME MPA Network

Session Moderator:

Dr. Zhaohui ZHANG, FIO/MNR, PR China

Rapporteur: **Dr. Linlin ZHAO**, FIO/MNR, PR China

- **Gap analysis in MPA in China**
Dr. Zhaohui ZHANG, FIO/MNR, PR China
- **MPA and marine ecosystem conservation and management in RO Korea**
Dr. Young Nam KIM, KOEM, RO Korea

Panel Discussion: Priority species of concern, management-oriented network of MPAs, and ways and approaches towards maximized joint management actions and application of new technologies to understand migration pattern of marine mammals.

12:00 – 13:30 Lunch

13:30 – 15:30 **Panel discussion on designation of MPAs for priority species and habitats**

- **Coastal wetland changes and priority areas for waterbird habitat conservation in the Yellow Sea ecoregion in PR China**

Dr. Xiubo Yu, IGSNRR/CAS, PR China

- **Migratory bird species in YS**

Mr. Yong LU, Senior Technical Officer, International Wetlands

- **Spotted Seal and Finless porpoise conservation plan in PR China**

Dr. Jiabo HAN, The Institution of Marine Academy and Fishery Sciences of Liaoning Province, PR China (TBC)

15:30 – 16:00 Coffee break

16:00 – 18:00 **Session 4: Coastal and marine ecosystem restoration technologies and evaluation**

Session Moderator:

Dr. Zongling WANG, PR China

Rapporteur: **Dr. Aslan Hwanhwi LEE**, RO Korea

- **Improving the effectiveness and impacts of coastal restoration projects**

Dr. Chaolun LI, IOCAS, PR China

- **Coastal reclamation and restoration in RO Korea**

Dr. Bong-Oh KWON, Seoul National University, RO Korea

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- **Effective and simple statistical approaches for the interpretation and identification of ecosystem management targets from large volume data sets**
Dr. Gyung Soo PARK, Anyang University, RO Korea
 - **The potential of Korean vegetated coastal ecosystems for greenhouse gas abatement through blue carbon management**
Dr. Heung-Sik PARK, KIOST, RO KOREA

Panel Discussion: Lessons learnt and good practices replication

18:00

Dinner

DAY 3: 17 July (Wednesday)

09:00 – 10:30

Session 5: Mainstreaming coastal wetland and marine biodiversity into spatial planning

Session Moderator:

Dr. Gyung Soo PARK, Anyang University, RO Korea

Rapporteur: **Dr. Wei WANG**, FIO/MNR, PR China

- **MSP application in China and future directions for biodiversity conservation**
Dr. Zhiwei ZHANG, FIO/SOA, PR China
 - **Development of marine spatial planning (MSP) in RO Korea**
Dr. Hee-Jung CHOI, RO Korea
 - **Emergy value maps as a decision support tool for marine spatial planning in Korea**
Dr. Daeseok KANG, Pukyong National University, RO Korea
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- **Coastal wetland ecosystem services in RO Korea**
Dr. Aslan Hwanhwi LEE, Seoul National University, RO Korea

Panel Discussion: Application of MSP in YSLME scale, especially on biodiversity conservation

10:30 – 11:00

Coffee break

11:00 – 12:00

Session 6: Building enabling constituency for coastal and marine biodiversity

Session Moderator:

Dr. Dohoon KIM, Pukyung National University, RO Korea

Rapporteur: **Ms. Ji Yong JANG**, Eco-Horizon Institute, RO Korea or Raphael from IUCN

- **Building a network of MPA education centers to increase awareness of threats, values, impact of loss and YSLME biodiversity**
Ms. Ji Yong JANG, Eco-Horizon Institute, RO Korea
 - **Engaging public and community participation through awareness raising education in protecting critically endangered Spoon-billed Sandpiper in Jiangsu Province, PR China**
Ms. Ziyou YANG, Spoonbilled sandpiper in China
 - **Increasing economic impacts of the Yellow Sea fisheries through marine biodiversity conservation**
Dr. Dohoon KIM, Pukyung National University, RO Korea
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- **Priorities for the blue economy in China**
Dr. Xiaohui WANG, National Marine Information Center, PR China

Panel Discussion: Awareness raising for biodiversity conservation in both countries

12:00 - 13:30 Lunch

13:30 - 15:30 **The Way Forward - Break-out group discussion**

Session Moderator:
Dr. Zhaohui ZHANG, FIO, PR China

Based on the discussion and results of the 6 sessions, the forum will break into groups to discuss the objectives, targets and priority actions of a YSLME Biodiversity Conservation Plan up to 2030. Resource persons will summarize the results of discussions in the 6 Sessions to help roll out the group discussion. Each group will report the objectives, targets and actions for review at the plenary. Consultants will improve the framework of the plan based on the insights from the forum and this session.

15:30 - 16:00 Coffee break

16:00 - 17:30 **Group report and Wrap-up**

Parallel Event 3

Addressing the Challenges of Marine Litter and Microplastics in the YSLME

13:30 - 18:00, July 18, 2019; and 09:00 - 15:30, July 19, 2019

Co-organizers:



Ministry of Oceans
and Fisheries

Marine Policy Office, Ministry
of Oceans and Fisheries,
RO Korea



Department of Marine Ecology
and Environment of Ministry
of Ecology and Environment
(TBD)



National Marine
Environmental Monitoring
Center (NMEMC), PR China



Korea Institute of Ocean
Science and Technology
(KIOST), RO Korea



Shandong Marine Resource
and Environment Research
Institute, PR China

Background

Marine litter refers to persistent, man-made or processed solid waste in marine and coastal environments. Some of them stay on the beach while others float on the surface of the sea or sink to the bottom of the sea. The amount of marine litter in the Pacific alone has reached more than 3 million square kilometers. Relevant researches have shown that marine litter has become one of the common water pollution sources through surveys of rivers, bays, islands and offshore waters around the world. Human activities on coasts and recreational activities, marine activities such as shipping and fishing are the main sources of marine litter. According to statistics, plastic and polystyrene products account for 90% of floating marine litter. If no measures are taken, the ocean will not be able to bear the burden, and the environment in which humans and other living things depend will be greatly challenged.

Ecosystem-based management of the YSLME requires joint actions in catalyzing partnerships development and supporting the implementation of policies aimed at reducing marine litter and marine plastics while benefiting communities and sea-based economies in particular tourism in coastal areas. These enabling conditions will provide a conducive platform to engage business, academia, NGOs, youth and other stakeholders to take joint actions within their respective areas of expertise.

The parallel event on marine litter and microplastics will be held in Qingdao of PR China on 18-19 July of 2019 co-organized by YSLME PMO in collaboration with NMEMC and Shandong Marine Resource and Environment Research Institute of PR China and KIOST of RO Korea.

Objectives

- Appreciate the methodologies in monitoring and analyzing marine litter (including microplastics) in the marine environment of the Yellow Sea
- Understand the sources and distribution;
- Identify solutions and good management practices to management challenges
- Engage local governments and the public to take actions and remediation measures
- Synergize actions and programs of regional organization through partnership development and resource sharing

Contact persons

- Ms. Weiwei Zhang, NMEMC/MEE, PR China
Email: wwzhang@nmemc.org.cn
- Dr. Jae-Ryoung OH, National Coordinator, YSLME Phase II Project, RO Korea
Email: Jroh@kiost.ac
- Mr. Jeenho MOK, Administrative Intern, YSLME PMO/UNOPS
Email: jeenhoM@unops.org

Note: *Forum language is English and translation services will not be provided during the session.*

TENTATIVE PROGRAM

14 July

Arrival of participants

DAY 4: 18 July (Thursday)

13:30 - 14:00

Registration for participants

14:00 - 14:30

Opening and Introduction

Facilitator: Mr. Zhengguang ZHU, Environment Officer, YSLME PMO/UNOPS

Welcome Speech

Ministry of Ecology and Environment (MEE), PR China (TBC)

Congratulatory Speech

NMEMC/MEE, PR China

KIOST/RO Korea

Shandong Marine Resource and Environment Research Institute

14:30 - 15:30

Session 1: Monitoring and analyzing methodology of marine litter in the marine environment of YS

Session Moderator:

Dr. Ziwei YAO, NMEMC/MEE, PR China

Global perspectives on marine litter management

UNEP/GPA

Keynote Speech 1

TBD, RO Korea

Keynote Speech 2

Dr. Juying WANG, NMEMC/MEE, PR China

Q&A session

15:30 – 15:45 Coffee Break

15:45 – 18:00 **Session 2: Issues and challenges of marine litter management in Yellow Sea**

- **Presentation 1**
RO Korea (TBD)
- **Legal framework of marine litter management in PR China and opportunities of improvements in the ongoing marine environment law revision**
Dr. Weiwei ZHANG, NMEMC/MEE, PR China
- **Monitoring and management of sea-based marine litter: status quo, gaps and future directions towards effective management**
TBD, PR China

Q&A session

Session 3: The Source and distribution of marine litter and marine plastics in Yellow Sea

- **Status of the marine litter in YSLME: consolidated baseline report supported by UNDP/GEF YSLME Phase II Project**
TBD
- **Status, sources and distribution of marine litter and plastics in Weihai City, Shandong Province of PR China**
Dr. Yuanqing MA, Vice President, Shandong Marine Resource and Environment Research Institute, PR China

Q&A session

18:30 – 19:00 Reception dinner

DAY 5: 19 July (Friday)

09:00 – 10:30

Session 4: Special session on microplastics in YS

- **Monitoring and analyzing methodologies of microplastics in PR China**
KIOST, RO Korea
- **Forecasting the distribution of microplastics in the Yellow Sea**
Prof. Rong HONG, Nanjing University, PR China
- **Sources and pathway of microplastics in YSLME**
Prof. Daoji LI, East China Normal University, PR China

Q&A session

10:30 – 10:45

Coffee Break

10:45 – 12:00

Session 5: Engaging local governments and the public for possible solutions/remediation measures for marine litter and microplastics

- **Citizen science in raising the awareness and mobilizing community actions in environmental protection**
TBD
 - **Assessment of fishery-based marine litter in coastal areas of Yellow Sea**
Mr. Yonglong LIU, Rendu, PR China
 - **Experiences of volunteerism in environmental education and beach clean-up through establishing a network of universities**
Mr. Tengfei CHU, Deputy Secretary General, BlueRibbon Conservation Association, PR China
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- **Magnitude of waste from rural areas of PR China and recycling and reuse: success and challenges**
Ms. Liwen CHEN, Director, Zero Waste Villages,
PR China

Q&A session

12:00 – 13:30 Lunch Break

13:30 – 15:20 **Session 6: Synergizing actions of responses to marine litter and microplastics through cooperation at regional level**

- **NOWPAP Regional Action Plan on Marine Litter: progress of implementation and lessons learnt**
Dr. Ning LIU, Environment Officer, NOWPAP
- **Capacity development in microplastics monitoring**
Mr. Wenxi ZHU, IOC/WESTPAC
- **Building a sustainable platform for innovation and learning across cities in YSLME through establishing a city alliance**
UNOPS

Q&A session

15:20 – 16:00

Closing remarks

- Shandong Marine Resource and Environment Research Institute, PR China
 - NMEMC/MEE, PR China
 - KIOST, RO Korea
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Parallel Event 4

Nutrient Management in YSLME

13:30 - 18:00, July 18, 2019; and 09:00 - 12:00, July 19, 2019

Co-organizers:



Korea Marine Environment
Management Corporation
(KOEM), RO Korea



Korea Institute of Ocean
Science and Technology
(KIOST), RO Korea



National Marine
Environmental Monitoring
Center (NMEMC), PR China

Background

Coastal eutrophication is associated with large urban populations and agricultural production that has high fertilizer use or large numbers of livestock. Excessive nutrients transported by rivers into coastal waters can cause algal blooms that may be toxic and may deplete the oxygen in the water and make it turbid, affecting fish and other marine life. Atmospheric nitrogen deposition is also a contributor to coastal eutrophication. Policy responses that reduce nutrient inputs to watersheds will decrease risk to LMEs. Based on the data of 2000, coastal eutrophication in Yellow Sea is rated as high, according to IOC-UNESCO and UNEP (2016). The YSLME SAP adopted in 2009 by PR China and RO Korea specifically targets to reduce nutrient loadings in coastal areas from land-based, atmosphere and ocean-based sources. UNDP/GEF YSLME Phase II Project has been supporting the review of current status of coastal eutrophication and loading modelling in hotspots, demonstration of nutrient mitigation through natural solutions and sewage treatment to achieve reduction of nutrients in Yellow Sea.

Objectives

- To review the status of nutrient inputs from selected river basins, atmosphere-based and sea-based sources;
- To understand the progress being made in nutrient reduction through increase in fertilizer-use efficiency in crop production, improvements in management of manure, and upgrading sewage treatment, and use of artificial wetland as nutrient sinks in the Yellow Sea.
- To discuss opportunities for improved nutrient reduction through regional cooperation and policy developments.

Contact Persons

- Ms. Fan YANG, PR China, NMEMC/MEE, PR China
Email: fyang@nmemc.org.cn
- Dr. Jae-Ryoung OH, National Coordinator, YSLME Phase II Project, RO Korea
Email: Jroh@kiost.ac
- Mr. Jeenho MOK, Administrative Intern, YSLME PMO
Email: jeenhoM@unops.org

Note: *Forum language is English and translation services will not be provided during the session.*

TENTATIVE PROGRAM

DAY 4: 18 July (Thursday)

13:30 – 14:00

Registration for participants

14:00 – 14:20

Opening Speech

- NMEMC/MEE, PR China
 - KOEM, RO Korea
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14:20 – 15:30

Keynote addresses

GPA/Global Partnership on Nutrient Management (GPNM): Progress and Prospects

Ms. Milcah Ndegwa, UNEP

Nutrients and inputs to watershed from the Agriculture in PR China

Prof. Fusuo ZHANG (TBC), China Agriculture University, PR China

15:30 – 16:00

Photo and Coffee break

16:00 – 17:45

Session 1: Status of nutrients inputs e.g. nitrogen and phosphorus from land-based from selected river basins, atmosphere-based and sea-based sources

- **Watershed modelling and nutrient loadings in Haizhou Bay of Jiangsu Province, PR China**
Mr. Lijun Wang, NMEMC of MEE, PR China
 - **Watershed modelling and nutrient loadings in Han River of RO Korea**
Dr. Hong-Lae Cho, Hydrocore, RO Korea
 - **Monitoring and acquisition of data from atmosphere-based sources**
Ms. Limin YU, NMEMC of MEE, PR China
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- **Inorganic nitrogen and phosphorus in atmospheric total suspended particles in the Yellow Sea**
Dr. Tae-Wook Kim, Assistant Professor, Division of Environmental Science and Ecological Engineering, Korea University
 - **Mariculture as a contributor to nutrient inputs to the Yellow Sea**
Speaker: TBD

Q&A session

18:00

Dinner

DAY 5: 19 July (Friday)

09:00 – 10:30

Session 2: Impacts of excessive nutrients loadings in the Yellow Sea

- **Current understanding on status and trends of eutrophication in Yellow Sea**
Dr. Baodong WANG, FIO of MONR
- **Changing nutrient conditions and associated consequences in the western Yellow Sea**
Dr. Wei Qinseng, First Institute of Oceanography, MNR, PR China

Q&A session

10:30 – 10:45

Coffee Break

10:45 – 11:30

Session 3: Nutrient reduction or remediation through nature-based solutions

- **Restoring coastal wetlands as nutrient sinks: case studies and regional strategies**
Mr. Guoxiang LIAO, NMEMC of MEE, PR China
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- **Word Bank Guangdong Project on Nutrient Management**

TBC

- **Implementation of Nitrates Directive in Romania**

Mr. Mihai Constantinescu, Specialist, Agriculture and Forestry, Ministry of Waters and Forestry, Romania

11:50 - 12:00

Wrap-up of the session

(By Invitation only)

Ad hoc Interim Commission Council Meeting on Options for a Regional Governance Mechanism for the YSLME

13:30 - 18:00, July 15, 2019; and 09:00 - 12:00, July 16, 2019

Agenda

- Review of the options for a regional ocean governance mechanism for the YSLME
- Mid-year project implementation review
- Project closure plan
- Project audit
- Summary reporting of the conclusions and decisions
- Agenda of the 4th Interim Commission Council (ICC)

Workshop on Update of YSLME SAP

**13:30 - 18:00, July 16, 2019 - 09:00 - 18:00, July 17, 2019;
and 09:00 - 12:00, July 18, 2019)**

Organizer:



YSLME Project
Management Office

Objectives

- Review the scope and mission of the 2007 TDA and 2008 SAP;
- Review the technical and management actions undertaken during the YSLME Phase II project;
- Validation of the findings and conclusions of the updated TDA
- Evaluate the relevance of the 2008 SAP components, considering current perspectives on the YSLME ecosystem;
- Develop recommendations on the structure and content of 2019 SAP update.

Session 1: July 16, 13:30 - 15:00

Opening and Introduction to Workshop

- Opening comments by Project Manager and RWG-G
- Statements of objectives and desired outcomes
- Format of workshop and expectations for participation
- Overview of TDA / SAP process and the roles and major events of YSLME Phase I and II projects within this context

Session 2: July 16, 16:00 - 18:00

Technical Basis for SAP

- Priority transboundary problems (TDA)
- Causal chain analysis: Understanding root causes (TDA)
- Regional targets, technical actions, and management actions (SAP)
- Key findings and conclusions of updated TDA and validation

Session 3: July 17, 09:00 - 10:30

Workshop Activity: Validate the Causal Chain Analysis and Environmental Problems

- **Objective:** Evaluate the relevance of environmental problems and causes identified in the 2008 SAP
- **Activities:** Breakout groups consider following topics:
 - o What are the emerging transboundary environmental problems relative to the nine environmental problems identified in the 2007 TDA and 2008 SAP?
 - o What are the underlying and root causes changed since 2007 and what are they?
- **Reporting:** Breakout groups present their findings and plenary group discusses whether any modifications to the causal chain or list of environmental problems need to be made.

Session 4: July 17, 11:00 - 12:00

Workshop Activity: Evaluate Management Actions and Targets, Part I

- **Objective:** Review of management actions and targets for relevance and completeness considering TDA findings and conclusions, as the perspectives gained during YSLME Phase II
- **Activities:** Each group will take one of the four service-oriented blocks of management actions and targets (Provisioning, regulating, cultural, supporting).
- **Reporting:** In Session 6 below

Session 5: July 17, 13:30 - 15:00

Workshop Activity: Evaluate Management Actions and Targets, Part II

- **Progress Reporting:** Each group provides a 10-minute summary of their deliberations so far.
- Brief discussion on how to target activities for this session.
- Breakout activities from Session 4 continue.

Session 6: July 17, 16:00 - 18:00

Reporting from Sessions 4 and 5

- Reporting from Sessions 4 and 5: Groups present the results of their deliberations and conduct a discussion with the plenary group.

Session 7: July 18, 09:00 - 10:30

Workshop Activity: Governance and Economic Considerations

- **Objective:** Evaluate relevance and completeness of governance and economic considerations in the 2008 SAP and make recommendations for the SAP update
- **Governance**
 - SAP updates relevant to preparations for the regional governance mechanism for the YSLME
 - Capturing other national and regional governance actions in the SAP update
- **Economic Considerations**
 - Are valuations of ecosystem services linked to socioeconomic impacts of interventions?
 - Are economic justifications adequate in terms of analyses of cost/benefit, return on investment, or other relevant measures?

Session 8: July 18, 11:00 - 12:00

Reporting from Session 7 and Wrap up

- **Reporting from Session 7:** Groups present the results of their deliberations and conduct a discussion with the plenary group.
- **Other Considerations:** Open discussion of other aspects of the 2007 SAP that are appropriate to consider in the SAP Update
- **Wrap-up**
 - Comments from representatives of the RWG-G working group on the outcomes, impacts, and relevance of the workshop.
 - Next steps to implement the outcomes of the workshop into the draft SAP update, including provisions for workshop participants to review and comment on the draft SAP update.
 - Closing statements by the Project Manager.

Contact persons

Ms. Kathrine Rose Gallardo-Aguiling, Consultant Event Specialist, UNOPS

Email: krsagallardo@gmail.com;

Ms. Yifei Li, Administrative Assistant, UNOPS

Email: yifeiL@unops.org

Mr. Jeenho MOK, Administrative Intern, YSLME PMO/UNOPS

Email: jeenhoM@unops.org

