NOWPAP Experience: Governance of and Policy Response to Marine Litter and Plastics Pollution

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NOWPAP Coordinator
Bangkok, November 11, 2019
Regional Seas Programmes (18)

- Provides a legally binding framework to protect the marine environment at the regional level
- MEAs - Regional Seas Action Plans and Conventions
- Governed by the participating countries through Conference of Parties

Administered by UNEP:
- Caribbean Region
- East Asian Seas
- Eastern Africa Region
- Mediterranean
- North-West Pacific
- Western Africa
- Caspian Sea
  (7)

Non-UNEP Administered:
- Black Sea
- North-East Pacific
- Red Sea & Gulf of Aden
- ROPME Sea Area
- South Asian Seas
- South-East Pacific
- Pacific Region
  (7)

Independent:
- Arctic Region
- Antarctic Region
- Baltic Sea
- North-East Atlantic
  (4)
Northwest Pacific Action Plan (NOWPAP)

- Established in 1994
- Part of UN Environment Programme’s Regional Seas Programme
- Member states: China, Japan, Korea, Russia
- Overall goal: Protection of the marine and coastal environment in the NOWPAP region
NOWPAP Mechanism

- JAPAN – Special Monitoring and Coastal Assessment
- CHINA - Data and Information
- KOREA - Marine Environment Emergency Preparedness and Response
- RUSSIA - Pollution Monitoring

Marine Litter
National Focal Points

International Partners

Municipalities

Governments
Academia
Public and NGOs
UNEPA Guidance

• 2006 – “Guidance for Regional Strategies on Marine Litter”:
  – Phase I – Assessment of Regional Situation
  – Phase II – Development of Regional Action Plans
  – Phase III – Integration of Regional Actions Plans on Marine Litter into Programme of Work
NOWPAP MALITA Project

- MALITA Project – 2005 (10th IGM):
  - Database on Marine Litter
  - Regional Review of legal and institutional issues
  - Regional workshops and International Clean-up Campaigns (ICC)
  - Public awareness materials and reports
  - Cooperation with COBSEA and UNDP GEF Yellow Sea Project
NOWPAP efforts

MALITA, 2006-2007
To assist NOWPAP countries in the environmental protection and sustainable development of the NOWPAP region through the development of a NOWPAP Regional Action Plan on Marine Litter

RAP MALI, 2008-2019
To improve the quality of the marine and coastal environment of the Northwest Pacific region by addressing the marine litter problem through cooperation and partnerships

www.unenvironment.org/nowpap
Explored solutions to address ML in International Workshops

International ML Workshop
Toyama, Japan, 2005

1st NOWPAP ML Workshop
Incheon, Korea, 2006

2nd NOWPAP ML Workshop
Toyama, Japan, 2007

3rd NOWPAP ML Workshop
Dalian, China, 2008

2016 NOWPAP ML Workshop
Vladivostok, Russia

2017 NOWPAP ML Workshop
Vladivostok, Russia
Addressing fishing gear in NOWPAP-TEMM Marine Litter Management Workshop, June 2018, Busan

Waste management in NOWPAP-TEMM ML Workshop, 24-25 Sep 2019, Dalian, China
NOWPAP Regional Action Plan on Marine Litter

3 key elements

- Prevent ML input
- Monitoring quantities and distribution of ML
- Remove existing ML

Approved in March 2008
1. Prevention of Marine Litter Input

CEARAC:
- Updated “Marine litter guidelines for tourists and tour operators in marine and coastal areas” (2011)
- Best practices for preventing marine litter from land-based sources (2013)

DINRAC:
- Regional Overview with updated information on legal and administrative arrangements (2010)

MERRAC:
- Regional report on negative impacts of Marine Litter (2013)
- Best practices of marine litter management in fisheries, aquaculture and shipping sectors (2014)
2. Monitoring of ML quantities and distribution...

- Marine litter monitoring (national)

  - Monitoring data since 2003 are available online!

http://dinrac.nowpap.org/our-work/marine-litter/monitoring-datasheets/
2. Monitoring of ML quantities and distribution...

- Marine litter monitoring (national)
## 2. Monitoring of ML quantities and distribution...

<table>
<thead>
<tr>
<th><strong>CEARAC:</strong></th>
<th>Compiled and harmonized monitoring data on Marine Litter on beaches since 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DINRAC:</strong></td>
<td>Added to its ML DB monitoring results since 2003 provided by the surveys conducted in China, Japan, Korea and Russia</td>
</tr>
<tr>
<td><strong>MERRAC:</strong></td>
<td>• Published “Understanding of Floating Marine Litter Distribution and Impacts in the NOWPAP Region” 2016</td>
</tr>
<tr>
<td></td>
<td>• Review and Analysis of Existing Floating Marine Litter Prediction Models in the NOWPAP region</td>
</tr>
<tr>
<td><strong>POMRAC:</strong></td>
<td>Research on micro-plastics content and migration in the Peter the Great Gulf.</td>
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</tbody>
</table>
Regional Overview on Marine Litter (2007)

% in number

- Others
- Metal
- Glass/Ceramic
- Cloth
- Paper
- Polystyrene
- Rubber
- Plastic

Japan

Korea

China

Russia

Source: NPEC (2002-2005)
Regional Overview on Marine Litter (2011)

Marine Litter in the NOWPAP Region

November 2011

Northwest Pacific Action Plan
http://www.nowpap.org

Figure 5. Sources of marine litter in NOWPAP member states in percentage (2010 data from Ocean Conservancy)
The Third Regional Overview on Marine Litter will be published in early 2020.
3. Removing existing ML and its disposal

With focus on national actions on:

• Beach Cleanup Campaigns
• Removal of existing marine litter
• Research activities related to marine litter
Organisation of International Coastal Clean-up (ICC) Campaigns since 2006

Jeju, Korea (2010)

Hirado, Japan (2010)

Lianyungang, China (2011)

Rizhao, China 2007

Yamagata, Japan, 2006

Vladivostok, Russia 2012

Okinawa, Japan (2013)

Boryeong, Korea (2014)

Yantai, China (2015)

Vladivostok, Russia 2016

Toyama, Japan 2017

Busan, Korea 2018

Dalian, China 2019
National efforts - China

- Restrictions to free use of plastic bags in markets from June 2018; About 40 billion plastic bags are reduced per year.
- By the end of 2019, enact local laws and standards system prohibiting the production, sale and use of single use and non-degradable plastic products in Hainan Province.
- By the end of 2020, completely ban the production, sale and use of single use and non-degradable plastic bags and plastic tableware in Hainan.
- By the end of 2025, completely ban the production, sale and use of plastic products listed in the Catalogue.
- By 2020, build an indicator system for “Zero-waste cities”.
National efforts - Japan

Subsidy to local governments for cleaning up coasts, reducing generation of litter in Japan

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
<th>US$1= JY110</th>
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<tbody>
<tr>
<td>2009-2012</td>
<td>About 54 m</td>
<td></td>
</tr>
<tr>
<td>2013-2014</td>
<td>About 91 m</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>About 26 m</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>About 27 m</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>About 28 m</td>
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</tbody>
</table>

Results of the Government of Japan’s subsidised project for cleaning up coasts in Japan

Subsidy can be used for:
- Cleaning up coasts
- Reducing litter generation

From 2015, removal of floating and sea bed-litter was added to the subsidy menu.

Credit: MOEJ
National efforts of Republic of Korea


  - Amount of Removed marine litter every year: about 78,022 tonnes;
  - Overall Cost: appr. US$ 46 million (including local governments)

  - Type of ML: Shoreline litter 65.1%, Sunken waste 29.3%, Floating litter 5.6%

  - Total Amount (2012~2018) 566,158 t
  - Total Amount (2018) 86,621 t

  ( * Data from Marine Litter Information System / www.malic.or.kr)
National efforts of Russia

- The Amur Regional Waste Management Program for the period 2018-2028 has been approved
- In 2017, 64 solid waste dumping sites were cleaned
- "Clean Coast" campaign, the banks of the rivers Tynda, Amur and Zeya have been cleaned up
- In Khabarovsk region, an interactive map of landfills has been launched
- Marine litter cleaning up activities along the banks of Amur, Ussuri and other rivers have been carried out
- In Primorsky Krai - “Water of Russia" program, 138 freshwater objects and 18 km of sea coasts of the shore were cleaned
Concluding Remarks

• NOWPAP countries drive the process supported by UNEP/other partners
• Addressing ML requires strategic approach
• It’s critical to ensure institutional and legal framework, financial resources
• Significant work carried out at municipal/local level - regional coordination
• ML/plastics remain key focus of NOWPAP and countries
Thank you very much!!!

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