



UN 600 environment

United Nations Environment Programme













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

Yegor Volovik, MCE, PhD 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:

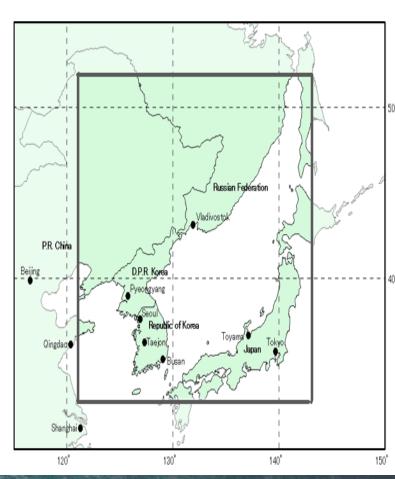
- Arctic Region
- Antarctic Region
- Baltic Sea
- North-East Atlantic

(4)

Northwest Pacific Action Plan (NOWPAP)

- Established in 1994
- Part of UN EnvironmentProgramme's Regional SeasProgramme
- Member states: China, Japan,Korea, Russia
- Overall goal: Protection of the marine and coastal environment in the NOWPAP region





NOWPAP geographic coverage





NOWPAP Mechanism









CEARAC

 - JAPAN – Special Monitoring and Coastal Assessment

DINRAC

- CHINA - Data and Information

MERRAC

- KOREA - Marine Environment Emergency Preparedness and Response



POMRAC

- RUSSIA - Pollution Monitoring

Marine Litter
National Focal
Points

International Partners

Municipalities

Governments

Academia

Public and NGOs

UNEP 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









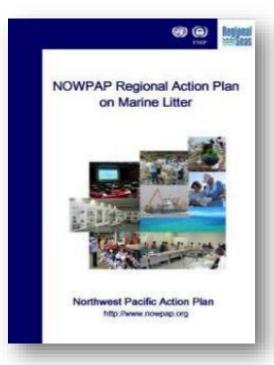
MALITA, 2006-2007

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

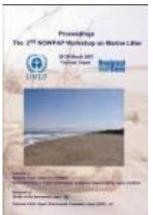
To improve the quality of the marine and coastal environment of the Northwest Pacific region by addressing the marine litter problem through cooperation and partnerships







Explored solutions to address ML in International Workshops



International ML Workshop Toyama, Japan, 2005



2nd NOWPAP ML Workshop Toyama, Japan, 2007



1st NOWPAP ML Workshop Incheon, Korea, 2006



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



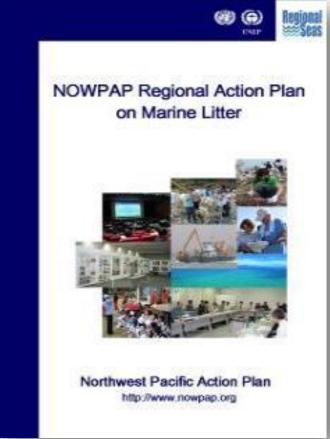


Waste management in NOWPAP-TEMM ML Workshop, 24-25 Sep 2019, Dalian, China





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 landbased 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)

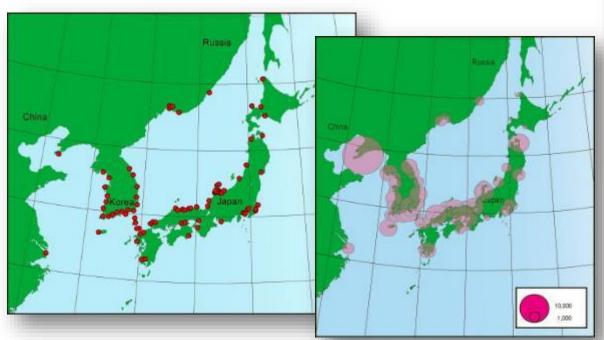






2. Monitoring of ML quantities and distribution...

- Marine litter monitoring (national)
 - ➤ Monitoring data since 2003 are available online!





http://dinrac.nowpap.org/ our-work/marinelitter/monitoringdatasheets/

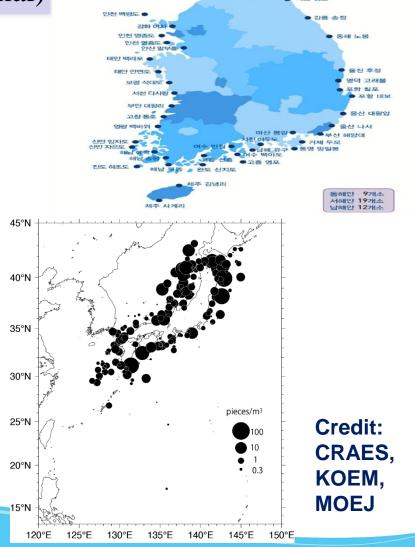




2. Monitoring of ML quantities and distribution...

• Marine litter monitoring (national)









2. Monitoring of ML quantities and distribution...

CEARAC:

Compiled and harmonized monitoring data on Marine Litter on beaches since 2003

DINRAC:

Added to its ML DB monitoring results since 2003 provided by the surveys conducted in China, Japan, Korea and Russia

MERRAC:

- Published "Understanding of Floating Marine Litter Distribution and Impacts in the NOWPAP Region" 2016
- Review and Analysis of Existing Floating Marine Litter
 Prediction Models in the NOWPAP region

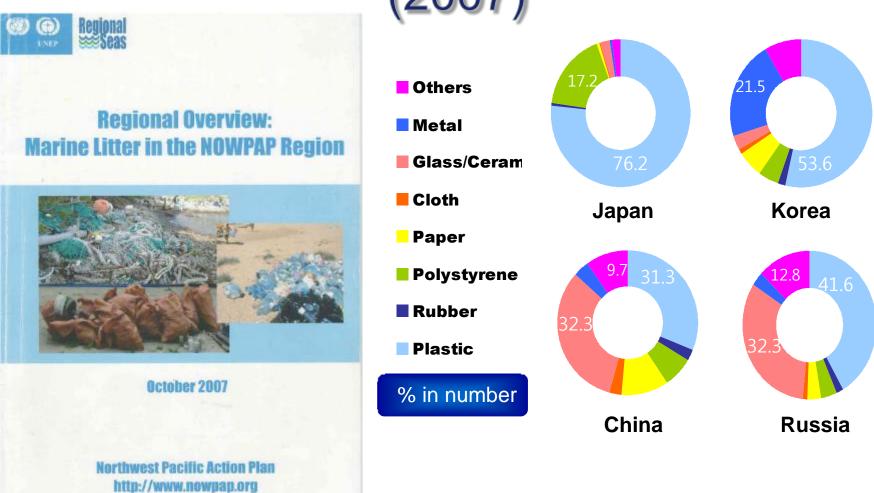
POMRAC:

Research on micro-plastics content and migration in the Peter the Great Gulf.





Regional Overview on Marine Litter (2007)

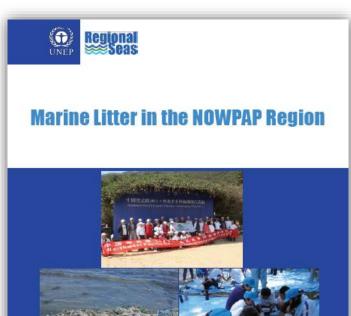


Source: NPEC (2002-2005)





Regional Overview on Marine Litter (2011)



November 2011

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

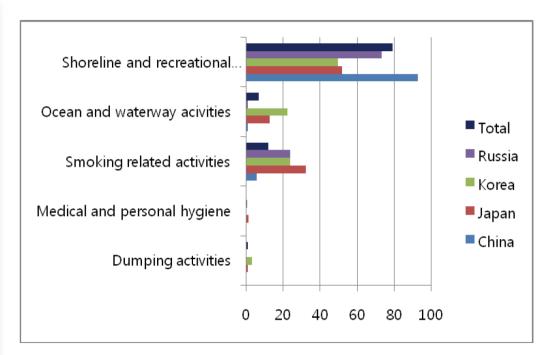


Figure 5. Sources of marine litter in NOWPAP member states in percentage (2010 data from Ocean Conservancy)





The Third Regional Overview on Marine Litter will be published in early 2020





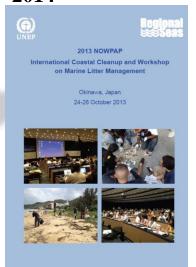
Removing existing ML and its disposal

With focus on national actions on:

- Beach Cleanup Campaigns
- Removal of existing marine litter
- Research activities related to marine litter



Boryeong Korea 2014



Okinawa Japan 2013





Organisation of International Coastal Clean-up (ICC) Campaigns since 2006

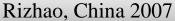
Jeju, Korea (2010)

Hirado, Japan (2010)

Lianyungang, China (2011)



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





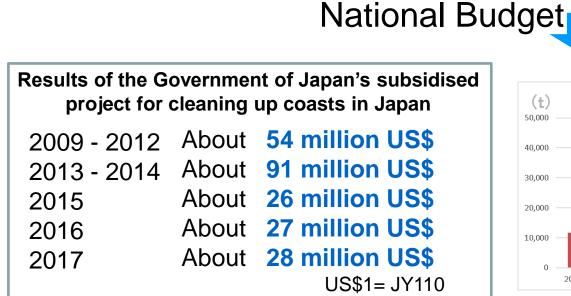


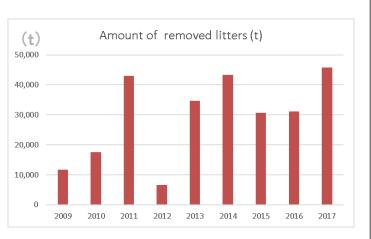
National efforts - China

- 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"



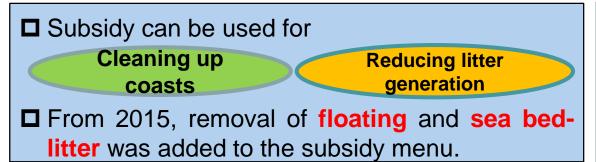
Subsidy to local governments for cleaning up coasts, reducing generation of litter in Japan

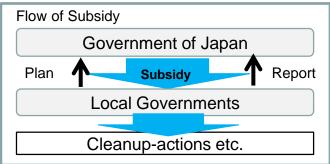




Credit:

MOEJ









National efforts of Republic of Korea

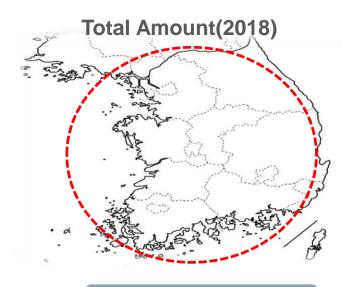
Removal Performance of Marine Litter in ROK (2012 ~ 2018)

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%





(Unit: Tonnes)

Total <u>86,621</u> t

Credit: KOEM





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















