



UNEP and NOWPAP efforts in dealing with marine litter

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Injector found on the coast with blood inside













Just an example: amount and cost...

Plastic waste inputs from land into the ocean, according to an article by Nenna R. Jambeck (Nature, February 2015): 4.8-12.7 million tons entering the ocean.

Without waste management infrastructure improvements, the cumulative quantity of plastic waste available to enter the ocean from land is predicted to increase by an order of magnitude by 2025.

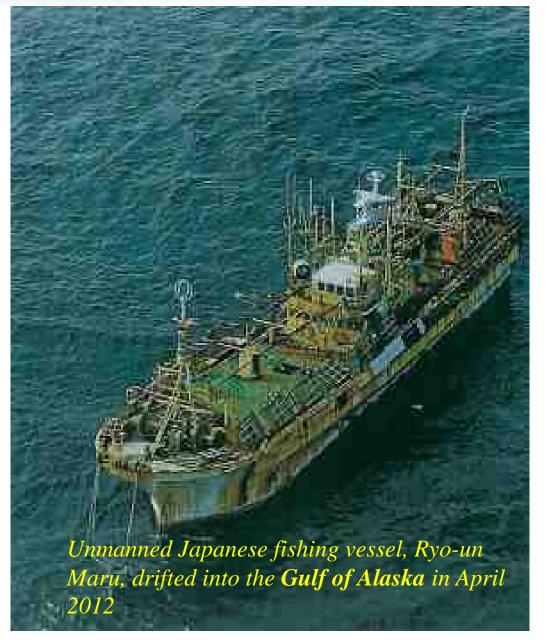
UNEP-supported report Valuing Plastic, estimates the natural capital loss due to plastic in the marine environment as at least US\$ 13 billion per year. This includes financial losses incurred by fisheries and tourism as well as time spent cleaning up beaches.

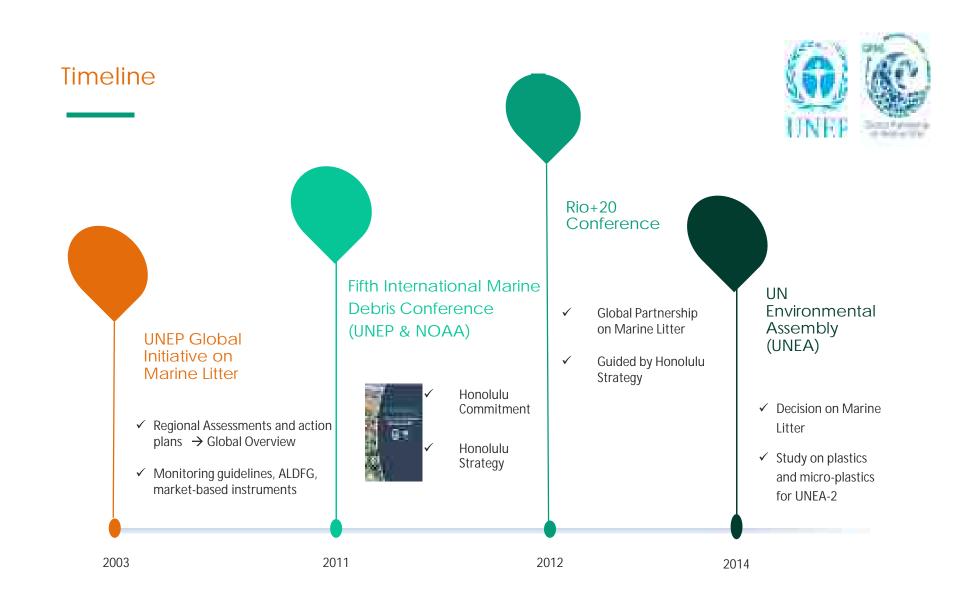






A trans-boundary problem







Regional Seas Conventions & Action Plans



West to East: North-East Pacific South-East Pacific Wider Caribbean West & Central Africa Mediterranean flinck lies Eastern Africa Bed Sea & Gall of Aden NOPME Sex Area South Asian Seas East Asian Seas North-West Pacific Partner programment: Arctic North-East Atlantic Bullic See Caribbean Antarctic





Regional Seas Conventions & Action Plans

SE Pacific NW Pacific Black Sea PERSGA region East Asian Seas Caspian region NE Atlantic

Plus: Mediterranean Sea Caribbean Sea Baltic Sea and other regions







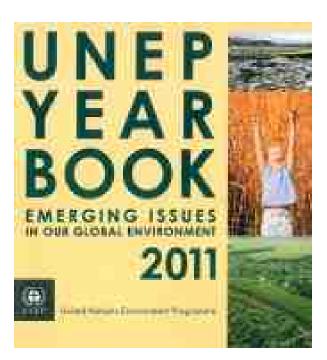
UNEP efforts

UNEP Yearbook

"Emerging issues in our global environment"

Plastic Debris in the Ocean

- Assessing the extent of the problem
- Ц
- Physical and chemical impacts
- Social and economic effects: 'wider than the ocean'
- Tackling the issues, managing the problems
- Looking ahead





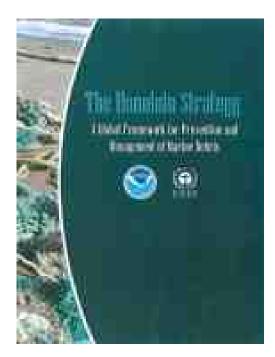


UNEP efforts

The 5^{th} IMDC (2011)



Fifth International Marine Bebris Conference



Honolulu Strategy

Co-organized by UNEP and NOAA, and took place in Honolulu, USA from 20-25 March 2011.

"Honolulu Strategy - framework for a comprehensive and global effort to reduce the ecological, human health, and economic impacts of marine debris globally"

Intended for use as a:

- *Planning tool* for developing or refining spatially or sector-specific marine debris programs and projects
- *Common frame of reference* for collaboration and sharing of BP and lessons learned
- *Monitoring tool* to measure progress across multiple programs and projects







The Honolulu Commitment

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Adopted at the Conference, to establish a cross sectoral approach to help reduce occurrence of marine debris, as well as the damage it causes to marine habitat

Marks the first step in developing a comprehensive global platform for the prevention, reduction and management of marine debris, to be known as the *Honolulu Strategy*

UNEP efforts

GPML and regional node





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UNEP efforts

UN Environment Assembly (2014) – Resolution 27/6 on Marine Plastic Debris and Micro-plastics:

 \rightarrow "Encourages Governments, intergovernmental organizations, industry and others to cooperate with the Global Partnership on Marine Litter "

 \rightarrow "Emphasizes that further urgent action is needed to address the challenges posed by marine plastic debris and micro-plastics, by addressing such materials at source"

 \rightarrow "Encourages Governments and the private sector to promote more resource-efficient use and sound management of plastics and micro-plastics"

 \rightarrow "Requests UNEP Executive Director to present a study on micro-plastics to UNEA-2"





Major publications on marine litter

- **UNEP** Marine Litter: A Global Challenge
- FAO Abandoned, lost or otherwise discard fishing gear

UNESCO IOC

UNEP/IOC Guidelines on Survey and Monitoring of Marine Litter

GESAMP

Sources, Fate and Effects of Micro-plastics in the Marine Environment - A Global Assessment





Recent publications



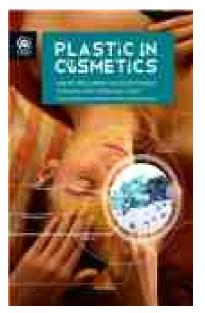
Biodegradable Plastics and Marine Litter (2015)

Misconceptions, concerns and impacts on marine environments

- Valuing Plastic (2014)
 13 billion USD per year
- Plastics in Cosmetics (2015)

Are we polluting the environment through our personal care?









NOWPAP efforts



MALITA, 2005-2007

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, 2008-2015-....

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



MOWERP Response Autooption on Mattine Lines



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Toward RAP MALI (2005-2008)



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



1st MALITA Working Meeting



 2^{nd} MALITA Working Meeting

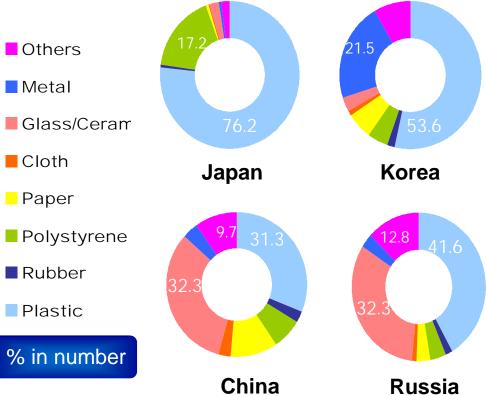




Toward RAP MALI (2005-2008)

Regional Overview on Marine Litter in NOWPAP Region





Source: NPEC (2002-2005)





NOWPAP RAP MALI









RACs activities on marine litter

CEARAC:

Land-based marine litter

Marton Litter datidgings for Tourists and Tour Spirators in Martins and South Areas

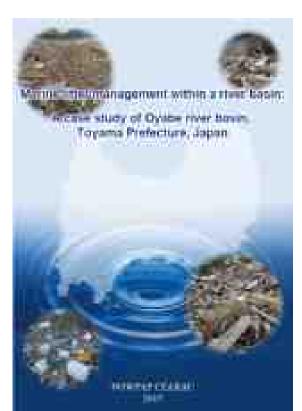




Best practices for prevention of marine litter input from land-based sources in the NOWPAP region











RACs activities on marine litter

MERRAC:

Sea-based marine litter







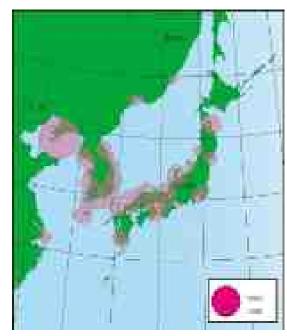
RACs activities on marine litter

DINRAC:

Database on marine litter distribution and composition

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











RACs activities on marine litter

POMRAC:

Promotion of marine litter-related activities

- Translation of reports and guidelines
- Organization of beach cleanup campaigns
- Research: no special fee system in ports, micro-plastics









Organization of ICC Campaigns (2006-2015)

Jeju, Korea (2010)

Hirado, Japan (2010)

Lianyungang, China (2011)



www.nowpap.org

Yamagata, Japan (2006)



Yantai, China (2015)

Vladivostok, Russia (2012)

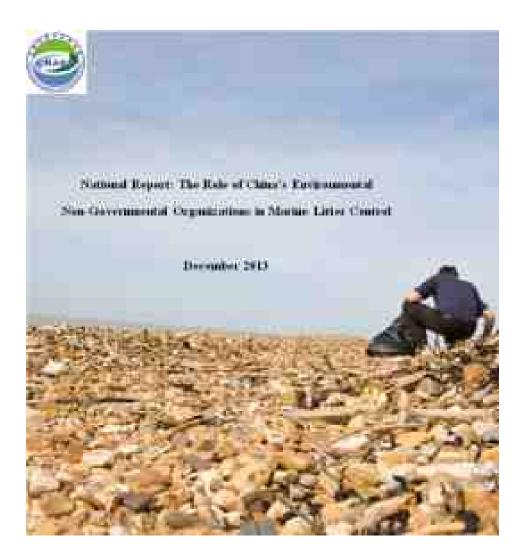
Okinawa, Japan (2013)

Boryeong, Korea (2014)



National efforts - China

Mobilizing NGOs



National efforts - China

An example: reuse of discarded fishing nets

Xijidang is a famous village in Lianyungang for the reuse of discarded fishing nets. Among the 40,000 tons of nets discarded in China, about 35,000 tons of nets became useful goods in this village.



National efforts - China

Restrictions to the free use of plastic bags in markets (from June 2008)

- No free use of thin plastic bags
- It is estimated that 40 billion plastic bags are "removed" per year by this initiative



National efforts - Russia

2008

Gornostay bay landfill (dump)



The year of trash dump opening	- 1967
The total area	– 160 000 m ²
The area covered with garbage	$-85\ 000\ m^2$
Waste volume as of 2010	- 1 800 000 m ³

National efforts - Russia

2010

Gornostay bay landfill (dump)

- back walls built,
- heat sources extinguished,
- bank slope fixed,
- gas outlet built,
- storm water drainage made,
- observation holes system established.

National efforts - Russia

Beach cleanup in Primorsky Kray





• Community work day, Russky island



• Community work day, Artyem city

• Community work day, Nakhodka city





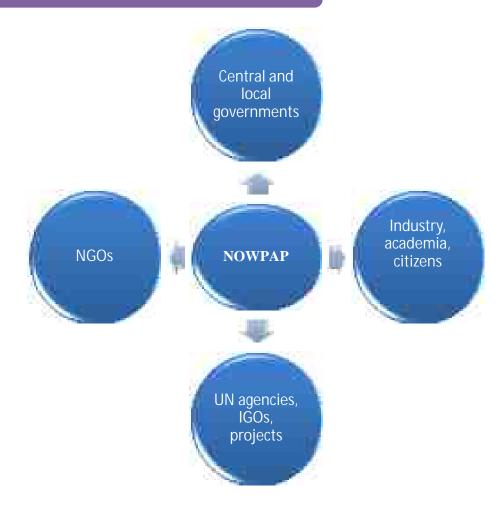
Suggestions:

- Focusing on ML points of origin (sources)
- Changing industry perspective/approach
- Educating public
- Changing behavior
- Enhancing regional/international cooperation





Partnership building to deal with ML







G7 summit (7-8 June 2015):

- Marine litter mentioned in the Leaders' Declaration

- In the Annex to Declaration, a G7 Action Plan to combat marine litter is described, including land- and sea-based sources, removal, education, research and outreach

- Japan is hosting a G7 summit in May 2016



www.marinelitternetwork.org