United Nations Environment Programme (UNEP) Inputs to the Secretary General's Report on Marine Debris, Plastics and Microplastics

Summary

UNEP together with the Global Programme of Action for the Protection of the Marine Environment from Landbased Activities (GPA) halong been working to preventeduce and mitigate impacts by marine litter ormarine and coastal ecosyster Costallenges posed by marine litter and responses to the challenges by UNEP are reviewed below.

At the First Session of United Nations Environmental Assembly (UNEAmember states adopted resolution 1/6 Marine plastic debris and microplastequestLQJ ³WKH ([HFXWL Director, in consultation with other relevant institutions and stakeholders, to undertake a study on marine plastic debris and marine microplastics, building on existing work and taking into account the most upp-date studies and dataThe study hasocused on key sourcespossible measures and best available techniques and environmental practices to prevent the accumulation and minimize the level of microplastics in the marine environment; urgent actions; research needs including keyimpacts on the environment and on human health;other priority areas identified in the assessment of the Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection. Thetudy is going to be submitted to the Second Session eff th UNEA in May 2016.

An analysis of socie conomic aspects on farine litter at a global level values prepared by IEEP, on behalf of UNEP, and delivered in time to provide input for the G7 Summitune, 2015 $*HUPDQ \setminus 7KH * DFNQRZOHGJHG 81(3 \ Vi)$ WNEP

¶ Regional Sea Programms pearheads nonitoring, assessmeand awareness ising at the regional level. Through the Global Partnership on Marine Litter, several regional action plans have been develope for example, ni 2013 a legally binding Marine Litter Regional Plan was adopted by the 2 participating countries to the Barcelona Convent Loomg-lasting monitoring programme within the Northwest Pacific Action Plan (NOWPAR) gion have also enhanced understanding of marine litter and associated impacts.

Recently UNEP launched Massive Open Online Course on Marine Litter, aiming to raise citizen **§** awareness across the worldver 6,000 people/ereenrolled.

Although significant efforts have been made tackle the issue of marine litter, further action needed in order to effectively address the issue Recommendations for future again include to

(Manila Declaration). Following the recommendatiothe GPML wasofficially launched t Rio + 20 in Brazil, in June 2012.

The GPML is a multistakeholder global partnership, which brings togethermiational agenciesgovernments NGOs, academiathe private sector, civil society and individuals under the common vision to reduce and better manage marine Attentive heartof GPML is the implementation of the Honolulu Strategy ± A Global Framework for Prevention and Management of Marine DebfisThe strategy has three main goa(15) Reduce amount and impact of landbased litter and solid waste introduced ittee marine environment; (27) educe amount and impact of sebased sources of marine debiniscluding solid waste, lost cargo, ALDFG (abandoned, lost or otherwise discarded fishing gead) abandoned vessels introduced into the seaand (3) Reduce amount and impact of accumulated marine debris on shorelines, in benthic habitats, and pelagic tores.

Based on the strategy, the GPML will continue assisting eholders reduce the impacts of marine litter UNEP, together with the GPML continues providing technical asstance and raising awareness it regards to marine litter dis associated impacts that member states can effectively achieve the ustainable Development Goal D U J H WBy 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution '

As is shown by the/HDG **Det** that fit in of the G7 Summit in 2015, there are increasing concernsover maine debrisand associated impactes mongthe policy makers Increasing efforts will be made driven by the 2030 Agendia Sustainable Developmend QG WKH * /HDGH Declaration in order to prevent, and reduce arine litter across the world. With the longesting experiences on the issues UNEP will continue providing inks between science and policy order to effectively address the challenges posed by arine litter

2. Progress to date

2.1 UNEP

The UNEP/GPA Coordination Office as led efforts in addressing the issues related to marine litter globally. Among its efforts includeD SXEOLFDWLRQ RQ ³9DOXLQJ 3OI launched during the First United Nations Environment Assembly (UN)EAnd which noted that the overall natural capital cost of plastics use in the consumer goods sector each year is US\$75 billion² calculated as the negative financial impact of issues such as pollution of the marine environment or air pollution caused by incinerating plastics.

¹ UNEP/GPA/IGR.3/6

² http://unep.org/gpa/documents/publications/honolulustrategy.pdf

³ https://www.g7germany.de/Webs/G7/EN/Home_en/home_node.html

parties 2012 to enhance cooperation in order to prevent, reduce, mitigate and control pollution from landbased sources.

In October2015, the Abidjan Convention held a marine litteon/wishop of its network of marine environmental journalists in an effort to ensure sustained coverage of the provide one ate heightened public and government awareness to the threat litter causes to marine life, coastal habitats and water bodies.

2.2.2 Barcelona Convention

In 1975, 16 Mediterranean countries and the European Community adopted the Mediterranean Action Plan (MAP), the first-ver Regional Seas Programme under UNEP's umbhella976 these Parties adopted the Convention for the Protection Mediterranean Sea Against Pollution (Barcelona Convention).oday, 30 years later, the Barcelona Convention and MAP are more active than ever. The Contracting Parties are now 22, and they are determined to protect the Mediterranean marine and contracting Parties are now 22, and they are determined to protect the Mediterranean marine and contracting Parties are now 22.

i. Challenges posed by marine debris, plastics and microplastics

The Mediterranean Sea is considered as one of the areas most affected by marine litter in the world. Human activities generate considerable amounts of waste, and quantities are increasing, although they vary between countries. In the Mediterranean, reports class**ifyalserd** sources (up to 69% of litte) and vessebased source(sup to 26%) as the two predominant litter sources. Plastic is the main litter compone inthas now become ubiquitous and may comprise up to 95% of waste accumulated on shorelines, the ocean surface, or sea floor (UNEP/MAP, 2015). A large scale study in the Mediterranean Sectentified five different types of plastic items (pellets/granules, films, fishing threads, foam, fragments), with the majority of items being fragments of larger rigid objects (87.7%, e.g. bottles, caps) and thin films (5.9%; e.g. pieces of bags orwrappings)⁹.

Littering, land based sources from coastal landfills, water transport recretional beaches, illegal dumping andiverine inputs, all contribute to the marine litter problem. Marine litter from

Assessments of the composition of beach litter in different regions of the Mediterranean Sea show that synthetic materials (bottles, bags, caps/lids, fishing nets, and small pieces of unidentifiable plastic and polystyrene) make up the largest proportion vectal litter pollution.

Tourism is the sectodhat contributes the most toamine litter and the amount of litter originating from recreational/tourism activities greatly increases during and after the tourism season. Household

Recent findings show that synthetic polymer items among fishing nets make up the largest

- c) Launch of a Trash Free Partnership at 2004 5 Our Oceans Conference in Chile in collaboration with the Peace Corps, USvEonmental Protection Agency and the Governments of Panama and Jamaica.
- d) Regional capacity building workshop in support of MARPOL Annex V: Special Area Designation for the

ii. Actions and activities

With support from UNE M VGlobal Partnership or Marine Litter, COBSEA produced two documents on marine litter 1) Regional Review Marine Litter in the East Asian Se Region, and 2) COBSEA Regional Action Plan on Marine Litter (RMPALI). The regional review showed that there were serious gaps with regard to marine litter management in the region. These include: few scientific studies and imited monitoring data on marin

Since then the Nairobi Convention has contributed to the strengthing of the legal capacity of countries in the region to address lands and pollution. A UHJLRQDO JXLG the CS trateler SDSHL of ratification and implementation of the LBSA protocol: Challengress Sciolutions for the WIO region²³, which aims at assisting member sees to address identified policy, legal and institutional gaps and constraints that have an impact on domestication problems been widely disseminated

2.26 Northwest Pacific Action Plan (NOWPAP)

The Action Plan for the Protection, Management Directleopment of the Marine and Coastal Environment of the Northwest Pacific Region (NOWPAP) was adopted in September 1994 as a part of the Regional Seas Programme of UNERe overall goal of the Northwest Pacific Action Plan is "the wise use, development damanagement of the coastal and marine environment so as to obtain the utmost longerm benefits for the human populations of the region ina, Japan, Korea and Russia) ZKLOH SURWHFWLQJ KXPDQ KHDOWK HFROR sustainability for future generations".

i. Challenges posed by marine debris, plastics and microplastics

In the NOWPAP region, where fisheries and aquaculture arecheved loped and supply seafood for people in the regionand where maritime transportation is very active, marine litter has serious negative effects on these sectors of national economies. Tourism is also affected through reduced aesthetic value of beaches there coastline in general. Microplastics and coniterants associated with marine litter have negative effects on marine life and affect food safety. In recent years, NOWPAP has published the following reports related to marine litter:

- a) Regional overview of marine litter in the NOWPAP region
- b) Negativeimpacts of marine litter in the NOWPAP region: case stubles
- c) Regional report on sea based marine litter in the NOWPAP region
- ii. Actions and activities

The NOWPAP Regional Action Plan on Marine Litter (RAP MAWas adopted in 2008 Since then, numerous activities to addresse negative effects of marine debriave beer implemented. For example, every year, NOWPAP International Costal Cleanup (ICC) camparing been organized in one of the member states along with a workshop where reprives en frame member states, neighboring countries, NGOs and intergovernmental organizations (such as Ocean Conservancy, the Joint Group of Experts on the Scientific Aspects of Marine Environmental ProtectiorGPA, COBSEA, Partnerships in Environmental Managent for the

²³ UNEP(DEPI)/EAF/CP.7/Inf.19

²⁴ http://dinrac.nowpap.org/documents/NOWPAP_Marine_Litter_2011.pdf

²⁵ http://merrac.nowpap.org/FPM/download.html?mfi_idx=62

²⁶ http://dinrac.nowpap.org/documents/NOWPAP_MERRAC_Regional_Report_Seabased_Marine_Litter.pdf

Seas of East Asia/ellow SeaLargeMarineEcosystem projectshare their experience and best practices in preventing, monitoring and removing marine litter. The following reports were published in recent years

a) Best practices in dealing

x Ensue a better integration and cooperation among the various sectorial brammethes sectors