

Plastic waste inputs from land into the ocean

[1]

Submitted on 26 October 2015 - 10:20am

This article is reproduced by CienciaPR with permission from the original source.

Calificación:



No

CienciaPR Contribution:

El Nuevo Día [2]

Original Source:

Caty Arévalo/EFE

By:



Aunque todos los países con acceso costero contribuyen al vertido de plásticos al mar, más de la mitad proviene de los citados cinco países asiáticos: China, Indonesia, Filipinas, Vietnam y Tailandia. (Archivo)

Plastic waste inputs from land into the ocean

Jenna R. Jambeck^{1,*}, Roland Geyer², Chris Wilcox³, Theodore R. Siegler⁴, Miriam Perryman¹, Anthony Andrady⁵, Ramani Narayan⁶, Kara Lavender Law⁷

¹College of Engineering, University of Georgia, 412 Driftmier Engineering Center, Athens, GA 30602, USA.

²Bren School of Environmental Science and Management, University of California, Santa Barbara, CA 93106, USA.

³Oceans and Atmosphere Flagship, Commonwealth Scientific and Industrial Research Organization, Castray Esplanade, Hobart, Tasmania 7000, Australia.

⁴DSM Environmental Services, Windsor, VT 05089, USA.

⁵Department of Chemical and Biomolecular Engineering, North Carolina State University, Raleigh, NC 27695, USA.

⁶Department of Chemical Engineering and Materials Science, Michigan State University, East Lansing, MI 48824, USA.

⁷Sea Education Association, Woods Hole, MA 02543, USA.

?*Corresponding author. E-mail: jjambeck@uga.edu ^[3]

ABSTRACT

Plastic debris in the marine environment is widely documented, but the quantity of plastic entering the ocean from waste generated on land is unknown. By linking worldwide data on solid waste, population density, and economic status, we estimated the mass of land-based plastic waste entering the ocean. We calculate that 275 million metric tons (MT) of plastic waste was generated in 192 coastal countries in 2010, with 4.8 to 12.7 million MT entering the ocean. Population size and the quality of waste management systems largely determine which countries contribute the greatest mass of uncaptured waste available to become plastic marine debris. 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.

Lee el estudio completo aquí [4]

Content Categories: • Environmental and agricultural sciences [5]

Source URL: <https://www.cienciapr.org/en/external-news/plastic-waste-inputs-land-ocean?language=en&page=5>

Links

[1] <https://www.cienciapr.org/en/external-news/plastic-waste-inputs-land-ocean?language=en> [2] <http://www.elnuevodia.com/ciencia/ciencia/nota/revelansolucionanodelosproblemasambientalesmasgravesdelmundo-2116864/> [3] <mailto:jjambeck@uga.edu> [4] <http://www.sciencemag.org/content/347/6223/768> [5] <https://www.cienciapr.org/en/categorias-de-contenido/environmental-and-agricultural-sciences-0?language=en>