

44

thrown directly into the ocean from ships.

olet radiation and the force of the waves. But it doesn't break down completely.

plastic, which sometimes obstructs their stomachs and kills them

which further poison

wildlife.

Pollutante

Traces of plastic have been found in farmed mussels and ovsters.

tion is comprised of detritus suspended below the surface. sometimes as deep as 30 metres.

is in the region of 8 million tons, in other words 30 times more than the observable

quantity of floating waste.²

Observable Quantity added quantity every year

colonised by microorganisms it becomes denser and eventually sinks.

Danube spills 4.2 tons every day, particularly in the form of industrial pellets.

A legal no man's land

"On a global level, there is no adequate legal framework for the fight against plastic pollution" says Thomas Cottier, Professor of European and International Economic Law at the University of Bern. "The high seas belong to nobody. National legislation is often poorly applied and varies from country to country".

To minimise the distortion of the oceans' surfaces, this map uses an interrupted Mollweide projection, centred on the Pacific.

Coriolis force

Currents rotate in a clockwise direction in the Northern Hemisphere and anticlockwise in the Southern Hemisphere.



Equator

A Swiss expedition to probe the oceans

The Race for Water Foundation, based in Lausanne, is dedicated to preserving water and has launched a scientific expedition to study plastic pollution. A race catamaran left Bordeaux, France, on 15 March 2015 to visit the five oceanic gyres in 310 days. "Samples will be taken from the 12 island beaches most exposed to floating waste, including Easter Island, the Mariana Islands and the Azores", says Florian Faure, a researcher at the Central Environmental Laboratory of EPFL, where the samples will be analysed. The study will be supplemented by three-dimensional cartography of the coastal zones and the waste using a Sensefly drone, made by the Swiss start-up of the same name.



Infographic: Benjamin Bollmann. Graphics and visuals: Dumpark 1 Source: M. Eriksen et al., Plos One, 2014 2 Source: J.R. Jambeck et al., Science, 2015