



CELLTREAT IS PROUD TO SUPPORT

THE OCEAN CLEANUP®

OVER 5 TRILLION PIECES OF PLASTIC CURRENTLY LITTER THE OCEAN

Trash accumulates in 5 ocean garbage patches, the largest one being the Great Pacific Garbage Patch, located between Hawaii and California. If left to circulate, the plastic will impact our ecosystems, health and economies. Solving it requires a combination of closing the source, and cleaning up what has already accumulated in the ocean.

ABOUT THE OCEAN CLEANUP

The Ocean Cleanup develops advanced technologies to rid the world's oceans of plastic. Founded in 2013 by Boyan Slat (23), The Ocean Cleanup now employs approximately 75 engineers and researchers. The foundation is headquartered in Delft, the Netherlands. Instead of going after plastic debris with vessels and nets – which would take many thousands of years and billions of dollars to complete – The Ocean Cleanup is designing a fleet of extremely long floating screens that will remain in the water to act like an artificial coastline, enabling the ocean to concentrate the plastic using its own currents. Once fully operational, this fleet of passive collection systems is expected to remove 50% of the Great Pacific Garbage Patch in 5 years' time. After fleets of systems are deployed into every ocean gyre, combined with source reduction, the Ocean Cleanup projects to be able to remove 90% of ocean plastic by 2040.

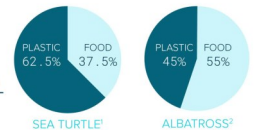


HOW PLASTIC AT SEA TURNS INTO TOXIC FISH FOOD

180x MORE PLASTIC THAN BIOMASS AT THE SURFACE OF THE GREAT PACIFIC GARBAGE PATCH
287x DURING DAY TIME
100x DURING NIGHT TIME

84% OF PLASTIC SAMPLES HAD AT LEAST ONE CHEMICAL POLLUTANT IN EXCESS

PLASTIC VS FOOD RATIOS FOUND INSIDE THE STOMACH OF COMMON NORTH PACIFIC SUBTROPICAL GYRE SURFACE FEEDERS



*Van Houtan, K. S.; Francke, D. L.; Alessi, S.; Jones, T. T.; Martin, S. L.; Kuratto, L.; King, C. S.; Baird, R. W. The developmental biogeography of hawksbill sea turtles in the North Pacific. *Ecol. Evol.* 2016, 6, (8), 2378-2389.

†Young, L. C.; Vonderlip, C.; Duffly, D. C.; Afanasjev, V.; Shaffer, S. A. Bringing home the trash: do colony-based differences in foraging distribution lead to increased plastic ingestion in Laysan albatrosses? *PLoS One* 2009, 4, (8).

THE OCEAN CLEANUP

IN SUPPORT OF THE OCEAN CLEANUP, CELLTREAT WILL DONATE A PERCENTAGE OF SALES TO ADVANCE THE PROJECT

To learn more about *The Ocean Cleanup* and how you can help, please visit www.theoceancleanup.com

CELLTREAT
SCIENTIFIC PRODUCTS
www.celltreat.com



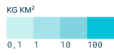
At CELLTREAT, we recognize our responsibility to conduct our business in a social responsible manner, and to contribute to organizations that positively support the environment and our community.

For each case of CELLTREAT product that is purchased, a portion of the proceeds will benefit environmental initiatives supported by CELLTREAT Scientific Products.

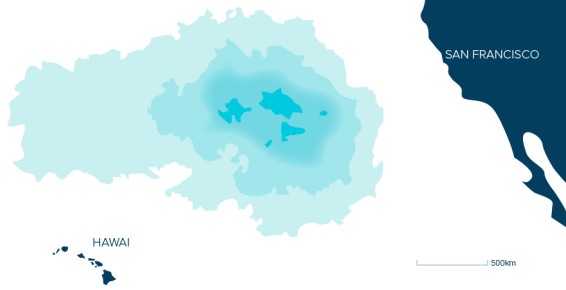


THE GREAT PACIFIC GARBAGE PATCH IN NUMBERS

CONCENTRATION



The GPGP holds ocean plastic concentrations ranging from 10s to 100s kg per km²



MEASURES

1,6 MILLION
KM²

2x
THE SIZE OF TEXAS

3x
THE SIZE OF FRANCE

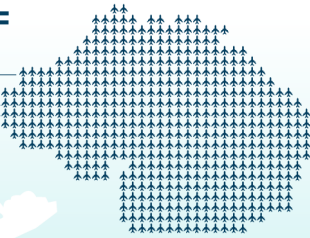
MASS & COUNT

1,8 TRILLION
PIECES

EQUIVALENT TO 250 PIECES OF DEBRIS FOR EVERY HUMAN IN THE WORLD

80.000 TONS OF PLASTIC

FLOAT IN THE GPGP EQUIVALENT TO 500 JUMBO JETS



100.000 tons if we consider the outerpatch defamed by a concentration of 0.1kg per km²

MASS

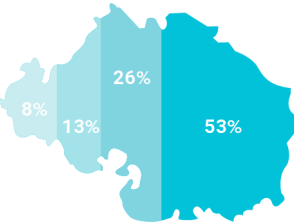
MICROPLASTIC LARGER THEN 5MM
8% 92%

COUNTS

MICROPLASTIC LARGER THEN 5MM
94% 6%

MASS DISTRIBUTION

- MICROPLASTICS 0.05CM > 0.5CM
- MESOPLASTICS 0.5CM > 5CM
- MACROPLASTICS 5CM > 150CM
- MEGAPLASTICS > 50CM



99%
OF EVERYTHING IS PLASTIC

46%
OF THE TOTAL MASS IS MADE OF DISCARDED FISHING GEAR

THE TOTAL MASS OF PLASTIC IS **4X TO 16X HIGHER** THAN PREVIOUS STUDIES HAVE SHOWN

1977



PRODUCTION DATE OF THIS PLASTIC CRATE FOUND FLOATING IN THE GPGP BY THE OCEAN CLEANUP RESEARCHERS

REFERENCE
Leibson et al. (2018). Evidence that the Great Pacific Garbage Patch is rapidly accumulating plastic. Scientific Reports...



Plastic samples collected during The Ocean Cleanup's Mega Expedition, 2015



A bird surrounded by ocean plastic on the Northwestern Hawaiian Islands



A selection of large objects observed in the Great Pacific Garbage Patch during the Aerial Expedition

Find out more on www.theoceancleanup.com/great-pacific-garbage-patch

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