

CTA-059-New Rock Type from plastics-World's Oceans

Join us to save coral reefs

Vic Ferguson

The World Federation for Coral Reef Conservation 281.971.7703 P.O. Box 311117 Houston Texas 77231 5/25/16

FORWARD: This article is a sad reminder of just **one** small runaway issue that affects coral and coastal eco environments......Executive Director

A brand new type of rock has formed from our plastic waste

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Image: Patricia Corcoran

The new type of material will stay in the Earth's rock record forever, according to a new study, and will one day act as a geological marker for humanity's impact on the planet.



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The World Federation for Coral Reef Conservation 281.971.7703 P.O. Box 311117 Houston Texas 77231 The research from the University of Western Ontario in Canada has revealed plastiglomerates form when melted plastic rubbish on beaches mixes with sediment, lava fragments and organic debris to produce a whole new type of rock.

So far the material has only been found at Hawaii's Kamilo beach, which is considered one of the dirtiest in the world, but the unique geological material likely exists in many other locations, as Joseph Castro reports for LiveScience.

Research on the plastiglomerates from Kamilo Beach have found there are two types: In situ and clastic. The results are published in *GSA Today*.

The in situ variety is rarer, and forms when "plastic melts on rock and becomes incorporated into the rock outcrop," lead author Patricia Corcoran told LiveScience. Clastic plastiglomerates (pictured above) instead form as loose rocky structures, when a combination of shells, coral, basalt, woody debris and sand are glued together by melted plastic.

Plastiglomerate was first discovered by oceanographer Captain Charles Moore, who thought that molten lava had melted the plastic to create the new rock material. But, as LiveScience reports, the researchers revealed that the lava hadn't flowed since before plastics were first invented, suggesting our waste was definitely to blame.

It's not great news, especially given the fact today is World Environment Day. Hey Earth, to celebrate, we've made you a new type of rock that will NEVER break down. You're welcome. But perhaps there will be some practical uses for the material in future?

Source: LiveScience

Vic Ferguson
The World Federation for Coral Reef Conservation
Executive Director
P.O. Box 311117
Houston, Texas 77231
vic.ferguson@wfcrc.org
www.wfcrc.org
281.886.7428 (office)
512.986.1902 (cell)

The only thing necessary for the triumph of evil is that good men do nothing"....Edmund Burke