027 東京都立深川高等学校



TOKYO METROPOLITAN FUKAGAWA HIGH SCHOOL International Volunteer Club

Protect the Richness of the Sea Through Beachcombing

Beachcombing is the act of collecting and observing items washed ashore. The name comes from how gathering these items resembles combing through



Overview

beaches?

@Cape Taibusa Nature Park

In spring 2021, we joined a beachcombing event at Cape Taibusa in Chiba and discovered large amounts of trash alongside sea glass and shells. Since then, we've participated in beach and river cleanups and shared our findings at external events to raise awareness about plastic pollution.

How much microplastic (MP)

·Using Nile Red, we dyed and visualized

the microplastics (MP) present in the sand!

is contained in the sand on



Knowing is the first step! The causes of marine pollution include oil spills from

shipping accidents, domestic wastewater, deteriorating water quality due to inflows of industrial water, and marine debris. We have focused our attention on marine debris.

here Does Marine Debris Come From?

80%: cities

70%: plastic wastes

The damage caused by marine plastics to living creatures is

More than 100,000 million mammals die each year around the worldwith, and 15% of them are endangered.

Our oceans are about to be overflown with garbage. It is estimated that more than 150 million tons of plastic waste exist in the world, and about 8 million tons (equivalent to 50,000 jumbo jets) of such plastic waste are released into the ocean







8,000,000t/year

50,000 planes

Amount of plastic trash in the ocean









15.000.000.000t





* Horiba Pla-watch 堀場製作所 MPs簡易学習キット ぷらウォッチ

Keyword: Microplastic (MP)

Among plastics, microplastics (MP) are a significant concern

LED light,

Primary MP

Secondary MP

These are plastics manufactured at a microscopic size, commonly found in toothpaste, detergents, and cosmetics. They enter the ocean via household wastewater, often bypassing sewage treatment →making recovery extremely difficult.

These are created when larger plastic items, such as bottles, break down

into micro-sized particles due to natural forces like waves, rivers, and UV exposure over time.









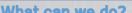






The Biggest Issue with Microplastics (MP):

Plastics accumulate in living organisms through the food chain, ultimately ending up in humans. It's estimated that humans consume the equivalent of one credit card (5g) per week and one plastic hanger (21g) per month.



Efforts like charging for plastic bags and banning plastic straws in cafes are underway, but the marine plastic issue remains far from resolved. What we can do as a high school student i an. According to WWF, plastics take a very long time to break down, and once microplastics enter the ocean, to recover. To address this, cleanup activities like beach cleaning are an effective way to stop plastics from entering the sea. The ocean is deeply connected to our lives, and by continuing cleanup efforts and raising awareness. We hope to change attitudes toward waste by sharing this message. As a first step, why not visit the coast and try beachcombing?

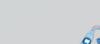


https://www.mymizu.co 「海洋プラスチックごみとマイクロプラスチックはどこからくるの?」 https://gooddo.jp 「海洋汚染とは?原因や環境への影響、現状について解説!」 https://www.nacsj.co.jp 「ご袋有料化でも海洋プラスチック問題に解決されない理由 https://www.wwf.or.jp/activities/basicinfo/3776.html海洋プラスチック問題について WWFジャパン

At Fukagawa High School's Volunteer Club, we are part of the Junior Red Cross and actively engage in various activities, including raising awareness about local and global issues.











A week







