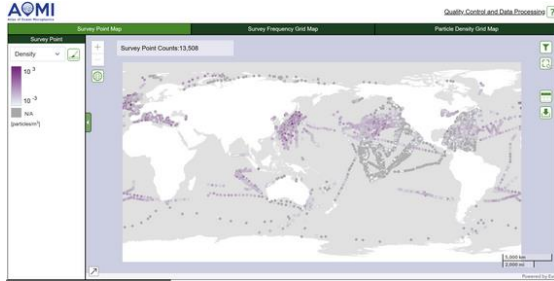


What is AOMI?



Overview

The Atlas of Ocean Microplastics (AOMI) is a global database of surface microplastics. "AOMI," which translates to "blue ocean" in Japanese, reflects our dedication to promoting a sustainable future.



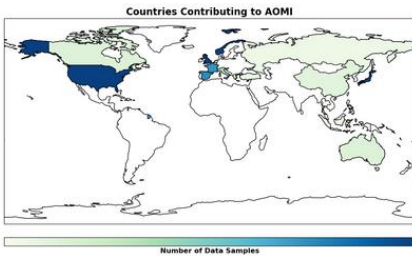
Survey point distribution and microplastic abundance map from AOMI website

AOMI's key features

1. Data abundance visualized through Gridded and Point Maps
2. Publicly accessible data (abundant data, easy mapping, enable download via website)
3. Data reviewed by experts to ensure compliance with established standards (see Michida et al., 2019).
4. Open to contributions from users

Dataset you can download

Contributions from **18** countries



Countries contributing to AOMI

AOMI stores **13,534** data points

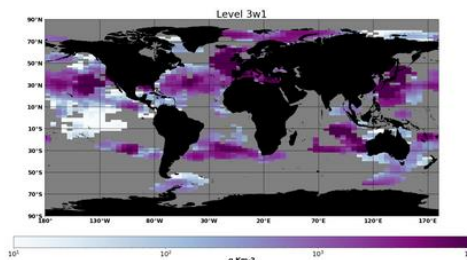
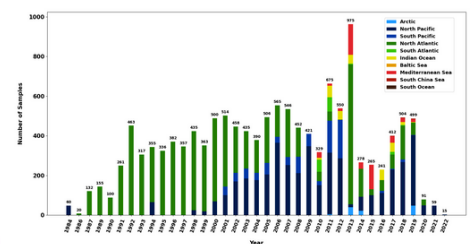


Image of the gridded area abundance data

Data collected as early as **1984**



Data Distribution by Year and Region

Dataset structure

- Data undergoes four levels of processing, each is available for download.
 - Level 0: Original data from the contributors
 - Level 1: Original data without fibrous microplastics
 - Level 2: Vertically integrated data
 - Level 3: Gridded interpolated data
- Original data includes metadata (survey locations, time, sampling methods, etc...)
- Interpolated data is constructed, following Isobe et al. (2021)

Note

- The contributing countries refer to the countries of origin of the data providers' institutions, not the geographic locations of the ocean surveys.
- The number of data points varies depending on the year of data sampling.
- AOMI includes data across all size ranges of plastic debris, encompassing both terrestrial water and ocean surface data.
- AOMI is continuously expanding and welcomes your contributions!

Reference

Michida et al. (2019) Guidelines for Harmonizing Ocean Surface Microplastic Monitoring Methods
 Isobe et al. (2021) A multilevel dataset of microplastic abundance in the world's upper ocean and the Laurentian Great Lakes. *Microplastics and Nanoplastics*, 1(1), 1-14.

Contact: AOMI Secretariat, aomi-contact@env.go.jp Website: <https://aomi.env.go.jp/>

