

Table S5. Comparison between studies on the presence of microplastics in coastal and oceanic waters.

Collection site	Size of Mps	Average concentration	Mp type	Color	References
Brazil	<1 - >5 mm	0.02 - 0.12 Mp/m ³	Fragments, fibers, rubber	White, transparent, black, colorful	Ivar do Sul et al., 2013
Brazil	0.053 - 16.94 mm	1.52 Mp/ trailer	Rigid plastic, plastic films, paint chips, fibers, wires	Transparent, white, black/gray, colorful (blue, green, yellow, red)	Ivar do Sul et al., 2014
Denmark	> 100 µm	0.39 - 3.54 Mp/m ³	Fragments, fibers	Colorful, transparent, white	Lassen et al., 2015
Mexico	n.d.	4.8 - 8.2 Mp/m ³	Fragments, fibers, beads	Colorful (red, blue, yellow), transparent, white	Di Mauro et al., 2017
Germany to South Africa	0.25 - 5 mm	0 - 8.5 Mp/m ³	Fibers, fragments	Blue, transparent, pink	Kanhai et al. 2017
Baltic Sea	0.5-5 mm	0.40 ± 0.58 Mp/L	Fibers, flakes, shreds	Transparent	Bagayev et al. 2018
Brazil	100 - >5000 µm	4.8-11 Mp/m ³	Fragments, films, fibers	Blue, yellow, white, transparent, black	Figueiredo & Vianna, 2018
China	200 - >5000 µm	0.13 ± 0.20 Mp/m ³	Fragments, films, foams, fibers	Transparent, blue	Sun, X. et al., 2018
Peru	0.8 mm - 65 mm	12.63 Mp/m ³	Films, filaments, fragments, granules, foam	Colorful (blue, opaque, green, pink), white, transparent, black	Tunçer et al. 2018
China	0.5-5 mm	545 ± 282 Mp/m ³	Films, fibers, granules, spheres	Transparent	Zhu, L. et al., 2018
China	0.3 - 5 mm	2.7 × 10 ³ - 2.2 × 10 ⁵ Mp/km ²	Shreds, pellets, fibers, lines, films, foams	White, brown, transparent, gray, black	Pan et al., 2019
China	0.001- 1 mm	0.148 - 0.842 Mp/m ³	Fibers, pellets, films, foams, shreds	Transparent, white, black, blue, yellow	Wang, T. et al., 2019
USA	> 0.3 µm	0.007 - 1.245 Mp/m ³	Fragments, films, fibers, foams, spheres	Transparent, black, white, colorful (blue, brown, green, gray, orange, purple, red, beige, yellow)	Bikker et al., 2020
Brazil	< 5 mm	7.62 Mp/m ³	Fragments, fibers, plastic films	Colorful (blue, red, multicolor), black, transparent, white	Castro et al., 2020
Ireland	1.5 -20.76 µm	0.56 ± 0.33 Mp/m ³	Fibers, fragments, fishing line, beads, films, foams	Black and colored (blue, red)	Frias et al., 2020
Brazil	n.d.	0.06 – 0.46 Mp/m ³	Fibers, foams, rigid plastic, soft plastic	Blue, black, white, red	Garcia, et al., 2020
USA, UK	n.d.	11.4 - 3700 Mp/m ³	Fibers, fragments, spheres	Blue, black, red, transparent	Lindeque et al., 2020
Mexico	0.10 - 10 mm	0.160 Mp/m ³	Fragments, films, fibers, foams	n.d.	Ramírez-Álvarez et al., 2020
Portugal	1 - 3 mm	0.02 ± 0.02 Mp/m ³	Fibers, films	Transparent, white, colored (blue)	Rodrigues et al., 2020

China	< 0.5 mm - 4 mm	8895 Mp/m ³	Fragments, fibers, films, spheres	White, colorful (yellow, red, blue, green), black	Zhang C. et al., 2020
Japan	0.35 - >5 mm	0.49 ± 0.92 Mp/m ³	Fragments, foams, fibers, films	White, transparent, blue, black	Kobayashi et al., 2021
Bay of Bengal	< 1 - >5 mm	0.01 - 4.53 items/m ²	Fragments, granules, fibers	Transparent, colored, white	Li et al., 2021
Scotland	< 200 µm - 5 mm	0 - 91.128 Mp/km ²	Fragments, films, spheres, fibers	Pink, white, blue	Russel & Webster, 2021
Ireland	0.45-5.56 mm	0.40 ± 0.37 Mp/m ³	Fibers, fragments, films, spheres	Red, blue	Courtene-Jones et al. 2022
China	100 µm - 5 mm	442.66 Mp/m ³	Granules, fragments, fibers, films	Yellow, white, transparent	Cui et al., 2022
China	< 0.5 mm - 5 mm	3.8 - 7.8 items/L	Fibers, films, fragments	n.d.	Ding R., et al., 2022
France	300 µm - 5 mm	39.217 - 514.817 items/km ²	Fragments, films, foam	n.d.	Gérigny, et al., 2022
East Asia to the Arctic	0.30 - 5 mm	2.91 ± 1.93 Mp/m ³	Fibers, lines, fragments	Black, white, transparent, colorful (red, yellow, blue, green, brown)	Huang et al., 2022
India	< 2 mm	0 - 4.97 items/m ³	Fragments, thread, fibers, granules, films, spheres	Transparent, colored, white, black	Li et al., 2022
China	0.3 - 5 mm	0.51 Mp/m ³	Fragments	Transparent, white	Pan et al., 2022
China	0.13 - 4.9 mm	0.77 - 9.6 Mp/m ³	Fibers, shreds, foam	Transparent, blue	Qu et al., 2022
Brazil	0.64 - 5 mm	3593 ± 2264 items/m ³	Fibers, fragments	Colorful (blue, yellow), transparent	Queiroz et al., 2022
Antarctica	0.18 - 4.97 mm	0.10 ± 0.14 Mp/m ³	Threads/fibers, flakes, films, granules	Transparent, colorful (blue, red, green, yellow, other), black, white	Zhang S. et al., 2022
Bay of Bengal	250-5000 µm	6.66 - 138.33 Mp/m ²	Films, shreds, fibers/threads, foams, pellets	White, black, blue, red, green	Al Nahian et al., 2023
Brazil	1-2000 µm	10.6 - 43.17 Mp/L	Fragments, films, fibers, pellets, foams	Blue, transparent, black, white, multi-color	This study

Captions: Mps - microplastics; Mp/L - microplastics per liter; Mp/m² - microplastics per square meter; Mp/m³ - microplastics per cubic meter; n.d. - Not determined; µm - microns; mm - millimeters.