
An annual study on plastic pollution in sediment cores and surface water from the coastline of Tenerife

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Abstract

Sediment core samples from high tide lines and in submerged zones as well as surface water samples from eight beaches of Tenerife were analysed. Sampling was conducted over a period of one year in intervals of 5 weeks. The majority of particles were found in the high tide sediment (66%), followed by water samples (23%) and finally in sediment from submerged zones (11%). Regarding the particle amount per volume (items/L), accumulation in sediment samples was statistically higher compared to water samples. Mean values of items/L were higher in high tide sediments. In high tide and water samples, mostly white and transparent particles > 1 mm were found. More than 70% were represented by fragments. In sediments from submerged zones, yellow and blue microparticles (

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