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## Editorial Note for Atmospheric micro plastics

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the plastic particle ranging from 5mm to 1micrometre.

than 1micrometre. Microplastics are generally classified into atmospheric microplastic pollution. In the fragmentation of macroplastics that includes synthetic environment. fibres from textile industries.

Microplastics are ubiquitous and are found in diverse media ranging from soils to acquatic systems and also in the digestive systems of several vertebrates and invertebrates. Deposition of microplastics in the water bodies through rivers and flow off is usually studied but the Whereas, in Hamburg, the dominant shape of atmospheric deposition in atmosphere is overlooked.

A Microplastic is not among the type of plastics but is a Recently different types of microplastics are already been detected plastic particle or fragment ranging from size 5mm to in the urban areas, suburban, and even remote areas far away from 100nm in size. According to the latest definition it is defined source regions of microplastics, showcasing their potential to as per the standard international unit (SI) nomenclature as travel through long distances in the atmosphere. The occurrence, fate, transport, and effect of atmospheric microplastics remain Nanoplastics are defined as the plastic fragments smaller unexplained due to limited physical analysis and understanding of environment two main types i.e., primary microplastics and secondary microplastics are found in diverse shapes and sizes. Mostly they microplastics. Primary microplastics are produced are found in spheres, beads, pellets, foam, fibres, fragments, intentionally (for example production of microbeads). films, and flake. The shape of the pollutant depends on the original Secondary microplastics are the ones that are produced form of primary microplastics, the degradation and erosion unintentionally. They are created by degradation and processes of plastic particle surface, and time of residence in the

> It is suggested that the degraded microplastics with sharp edges indicates a recent introduction into the environment while smooth edges are associated with a large residence time. In Dongguan, Shanghai, Yantai, and Paris (urban centres), fibres were the dominant shape (>60%) for the atmospheric microplastics.

> microplastics detected were fragments, contributing to 95% of the total particle numbers and only 5% comprised

The major source of atmospheric micropollutants is road fibres. The relation between the transportation and the transport i.e., through TWP- tyre wear particles and BWP- shape of the microparticle has been noticed. For example, break wear particles. A Tyre is made up of elastomers such films that are very thin and flat provide a greater surface as rubbers that may be natural or synthetic, carbon black, area for atmospheric conveyance when compared to steel cord, fibres and other organic and inorganic materials fragments of the same mass. The influence of shape on that are in use to improve their stability. The shear forces atmospheric transport requires further research. between the tyre and the road surface leads to the Microplastics have been reported in a range colours, generation of microplastics. The car breaking systems including red, orange, yellow, brown, tan, off white, white, usually consists of disc or drum with pair of shoes or pads grey, blue, green, and so on. The most common ones are blue and red fibres.

mounted in calipers. Brake linings are made up of binders, fibers, fillers, frictional additives lubricants and abrasives. Therefore BWP'S is the complex mixture of metal and plastic. The BWP emissions varies depending on the frictional material, severity and frequency of braking, speed weight and the maintenance of automobile. As the TWP's and the BWP's can be present at sizes <10micrometre, they can remain airborne for longer period of time in the atmosphere.

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