**Dataset information**

• Data on surface and suspended macroplastic transport, and macroplastic concentrations on floodplains.

• The dataset is comprised of:

1. Macroplastic concentrations on floodplains [‘Floodplains’ sheet]. This data was collected by *Schone Rivieren* (English: Clean Rivers) program, an initiative by *Stichting De Noordzee* (SDN, English: North Sea Foundation) and *IVN Natuureducatie* (English: Institute for Nature Education). More information on the suspended plastic measurements and processing of the data can be found at the associated publication, notably in Appendix A. 1 “Plastic measurements”, section “Floodplain plastic measurements”. The conversion from macroplastic count concentrations to macroplastic mass concentrations was done using the floodplain plastic mass statistics reported in Lange et al. (2023).
2. Suspended macroplastic transport [‘Suspended’ sheet]. This data was collected at various locations in Dutch waterways, using larvae nets placed at three different depths in the water column. The nets are circular and each were equipped with a flow velocity meter. More information on the suspended plastic measurements and processing of the data can be found at the associated publication, notably in Appendix A. 1 “Plastic measurements”, section “Suspended plastic measurements” and “Flow velocity estimates”.
3. Surface macroplastic transport [‘Surface’ sheet]. This data was collected at various locations in Dutch waterways, using the visual counting method that enables to estimate surface macroplastic counts. More information on the surface plastic measurements and processing of the data can be found at the associated publication (Appendix A. 1 “Plastic measurements, section “Surface plastic measurements” and “Flow velocity estimates”) and in van Emmerik et al. (2022). The conversion from macroplastic count transport rates to macroplastic mass concentrations was done using surface plastic mass statistics reported in van Wijk and de Vries, 2023 and by Vriend et al. 2020.

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**Methodological information**

More information on the measurement protocols and data processing steps is available at the associated publication: https://doi.org/10.1016/j.watres.2024.121786.

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