



Transatlantic transport and deposition of Saharan dust: two years of monitoring dust from source to sink

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Using a source-to-sink approach, we are monitoring Saharan dust transport and deposition using an array of instruments collecting dust on land in Mauritania as well as from the atmosphere at sea (using dust-collecting tethered buoys) and settling through the ocean (using sediment-trap moorings), along a transect at 12°N between Northwest African and the Caribbean. We compare our results to Saharan-dust samples collected on Barbados, as well as to transatlantic Saharan transport and deposition modelled using a CESM. Next to the dust particles, we also study the marine-environmental effects of dust deposition, including plankton communities and biomarkers. In this presentation, we will introduce the projects in the framework of which this study is carried out, and present preliminary data on Saharan dust transport and deposition as well as marine-environmental observations.

See: www.nioz.nl/dust