Supporting Information:

Seasonal variation of aliphatic amines in marine sub-micrometer particles at the Cape Verde islands

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Fig. 1S: The organic carbon content [left axis, $\mu g m^{-3}$] detected from five stage Berner impactor (colored bar) and the contribution of amines in % to the carbon content (right axis, open triangle) detected in the corresponding stage 2 sample.



Fig. 2S: The sum of inorganic nitrogen species and amines [left axis, $\mu g m^{-3}$] detected from five stage Berner Impactor (colored bar) and the contribution of amines in % to the total nitrogen (left axis, open circle) detected in the corresponding stage two sample.



Fig. 3S: Relative contribution of methylamine (MA), dimethylamine (DMA) and diethylamine (DEA) to the five stage Berner samples with air masses originating from the open North Atlantic Ocean.



Fig. 4S: Relative contribution of methylamine (MA), dimethylamine (DMA) and diethylamine (DEA) to the five stage Berner samples with air masses originating from the African continent.

Table 1S: Merits of analysis for the HPLC/ESI-MS method used in this study. The filter recovery was determined by spiking blank quartz filters with known amounts of amines, and subsequent filter extraction and analysis using the method described in the section 2.3.3. The LOD (limit of detection) is defined as S/N ratio of 3 (signal to noise ratio) at an injection volume of 10 μ L.

	Filter recovery (n=4)	R^2 (n=10)	LOD (n=5)	RT (n=10)
	[%]		[µM]	[min]
Methylamine	89 ± 22	0.9993	0.55±0.11	22.3±0.3
Dimethylamine	82 ± 6	0.9997	1.32±0.19	31.2±0.2
Diethylamine	96 ± 10	0.9997	0.81±0.09	52.8±0.2
Morpholine	81 ± 5	0.9994	0.77±0.04	40.4±0.2