



*Supplement of*

## **Pan-Arctic seasonal cycles and long-term trends of aerosol properties from 10 observatories**

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**Figure S1.** Data coverage and trends. The grey bars on the right side indicate data availability per station and variable. The p-values and slopes on the left side indicate the overall trends characteristics per station and variables separated by season (JFMA and JJAS). Decadal trend significance and direction are given by numerical values only in the respective time period. The two left (right) values correspond to JFMA (JJAS). Chemical compounds were derived from the following size ranges (see also Table 1 in the main text): TSP for Alert and Villum, PM<sub>10</sub> for Zeppelin, and PM<sub>1</sub> for Barrow.