High Volume (HV) aerosol sampling

General: Aerosols are sampled on Whatman 541 filters and analyzed by ion chromatography. Sampling period: From "Start date" to "Stop date". Concentration values are given in nanogram (ng) per 1 m³ air STP. Further information see http://www.awi-bremerhayen.de/GPH/AirChemistryObservatory/gallery 05.html

Values:

- 1. Methane sulfonate concentration = **MSA_conc**; unit [ng m⁻³]
- 2. Chloride concentration = *Cl_conc*; unit [ng m⁻³]
- 3. Bromide concentration = Br_conc ; unit [ng m⁻³]
- 4. Nitrate concentration = *nitrate_conc*; unit [ng m⁻³]
- 5. Sulfate concentration = *sulfate_conc*; unit [ng m⁻³]
- 6. Sodium concentration = Na_con ; unit [ng m⁻³]
- 7. Ammonium concentration = $NH4_conc$; unit [ng m⁻³]
- 8. Potassium concentration = K_{conc} ; unit [ng m⁻³]
- 9. Magnesium concentration = **Mg_conc**; unit [ng m⁻³]
- 10. Calcium concentration = *Ca_conc*; unit [ng m⁻³]

Uncertainties of the values are approximately $\pm 10\%$ to $\pm 15\%$ for the main components MSA, chloride, nitrate, sulfate and sodium, and between $\pm 20\%$ and $\pm 30\%$ for the minor species bromide, ammonium, potassium, magnesium and calcium.