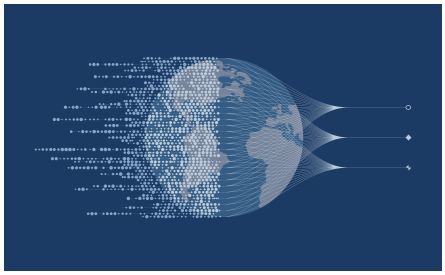

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2.0: A Next Generation Aerosol Sampler/Analyzer Update

Lessons learned from more than 20+ years of aerosol sampling have better informed the International Monitoring System community of heightened needs for an updated aerosol monitoring capability. Increased efficiency contributing to delivering lower minimum detectable concentrations, system resilience, system agility and better timely access to data are just some of the heightened performance parameters being explored. This work will be an update and integrated look at the various components of a next generation aerosol monitoring system. In utilizing state of the art technology in aerosol sampling with Electrostatic Precipitation (ESP), integrated sample handling, as well as dual-gamma radiation detectors better performance can be obtained. Current modeling, testing and development shows a clear benefit in operational performance and a greatly enhanced next generation aerosol monitoring system.

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