

Small sensors in volcanology: perspectives from the VOLTAIRE Labex and ANR-STRAP

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Small sensors ('Multi-Gas') have become a popular tool to characterise in-situ the composition of volcanic emissions, both to gain insights into subsurface processes, and to better inform downwind impacts. As well as ground-based measurements, we are now also working towards drone-based sensing of the plume. Here we discuss some recent developments concerning how best to apply small sensors to measure pollutant gases in the atmosphere, and the potential interdisciplinary science to be gained by combining with other techniques.