



## **Modeling the transport of resuspended ash from the Eyjafjallajökull eruption**

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During the Eyjafjallajökull eruption, ash was deposited in the complex terrain in the vicinity of the volcano. After the eruption ended, this ash was resuspended into the atmosphere in several events, resulting in high particle concentrations at places far away such as in Reykjavik and at the international airport in Keflavík. In order to reproduce such events, it is essential to accurately simulate the surface winds in the source areas. They have been simulated with multiple numerical configurations giving results ranging from poor to very good. Once in the air, the transport of the ash is however not very sensitive to the numerical configurations.