

Three-Week Intensive Aerosol Sample Collection at Hyytiälä Forest Station, Finland

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Name & country of the workshop : Hyytiälä Forest Station, Finland

During this trip, I conducted a three-week intensive aerosol sample collection at Hyytiälä Forest Station in Finland. Using a high-volume sampler, I collected large volumes of ambient air, which was passed through quartz filters. My sampling intervals were approximately 24 hours, with filter changes occurring daily around 7 AM. Additionally, I replaced the impact filter every three days. Upon returning, I will analyze the filters for various properties, including chemical composition, hygroscopicity, and light absorption.

Hyytiälä Forest Station, operated by the University of Helsinki, is a renowned research facility in Finland, specializing in the study of forest ecosystems and atmospheric sciences. Located in the boreal forest region, it provides an ideal setting for examining interactions between the forest environment and the atmosphere. The station is equipped with advanced facilities for monitoring and analyzing environmental parameters, such as air quality, meteorological conditions, and ecosystem dynamics. This makes it possible to obtain valuable information on the origin of the samples during analysis.

In summary, the data collected during this intensive sampling campaign at Hyytiälä Forest Station will provide critical insights into the composition and behavior of aerosols in a boreal forest environment. The advanced facilities and unique location of the station have enabled the collection of high-quality samples that will contribute significantly to our understanding of forest-atmosphere interactions.

<Supervisor's name>

Michihiro MOCHIDA



Fig.1 High volume sampler and me



Fig. 2 Image of the entrance to Hyytiälä Forest Station

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