

Aerosol Ice nucleation (intercomparison of measurement techniques)

Preliminary date: October, 2018

Where: Puy de Dome, France

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Scope:

We aim at operating a number of aerosol ice nucleation instruments during the month of October 2018. We welcome all types of instruments, both online and offline.

Campaign objectives:

The principal outcome of this campaign is to compare different types of instrumentation developed to characterize aerosol ice crystal interactions under ambient conditions. This campaign will be the first deployment of the A-PINC (the new portable PINC chamber) developed at the LaMP laboratory in collaboration with ETH, Zurich. The main questions are:

1. How do different IN chambers compare under different meteorology conditions.
2. Decide best procedures to compare data acquired using different measurement techniques?
3. Compare different calibration methods?
4. Associate aerosol ice nuclei measurements with aerosol physical and chemical properties at high altitude (*e.g online aerosol chemistry (ACSM), cloud condensation properties (CCNC), aerosol size distribution, offline filter samples for electron microscopy analysis, bioaerosol analysis*).

Both, ACTRIS partners and non-ACTRIS members are invited to participate. The transnational access program (TNA) will contribute to travel and accommodation expenses.

Kindly note the deadline for application: June 8th 2018

