



# Ice Nucleation Cold Stage

<https://cif-cold-stage.github.io/>

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The main purpose of the instrument is to observe the freezing nucleation process of supercooled water droplets. The instrument is suitable for studying ambient ice nucleating particle concentrations and laboratory-based process-level studies.

## Instrument Capabilities

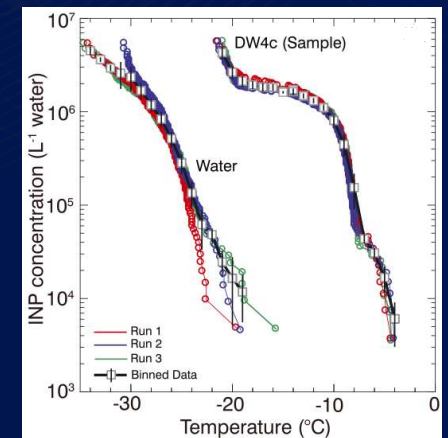
- Quantification of ice nucleating particle concentration in atmospheric aerosol, rainwater, and snow melt.
- Laboratory studies of ice nucleation processes, including determination of ice nucleation active site density of different materials.

## Request Process

- Informal inquiries are accepted at any time via Email (address above).
- A formal request is initiated via the "Request" tab of the project page (URL above).

## Application

Example ambient aerosol ice nucleation particle concentration spectra obtained with the instrument.



**FIRP Request Process: [NSF Webpage](#)**