

# Experiment Proposal

Experiment number GP2022010

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<b>Co-investigator (*)</b>	Professor Barbara Delmonte, University Milano-Bicocca, ITALY	
<b>Co-investigator</b>	Professor Marco Alberto Carlo Potenza, Università di Milano, ITALY	
<b>Co-investigator</b>	Dr Tiziano Sanvito, EOS Srl, ITALY	
<b>Co-investigator</b>		
<b>Co-investigator</b>		
<b>Experiment title</b>	ADA270 - The future in the past	
<b>SRF Instrument</b>	<b>Cold Laboratory</b>	<b>Days requested: 3</b>
<b>Access Route</b>	Rapid Access	<b>Previous GP Number: -</b>
<b>Science Areas</b>	Environment	<b>DOI: -</b>
<b>Sponsored Grant</b>	Yes	<b>Sponsor: Other</b>
<b>Grant Title</b>	ClimADA - Fondazione Cariplo	<b>Grant Number: Rif. 2021-4275</b>
<b>Start Date</b>	01/01/2022	<b>Finish Date: 31/12/2023</b>
<b>Similar Submission?</b>	-	
<b>Industrial Links</b>	EOS Effective Optical System	
<b>Non-Technical Abstract</b>	<p>The ADA270 project from a collaboration between the University of Milan Bicocca, the Paul Scherrer Institute (CH), the Adamello Park and the Valcamonica Mountain Community, the Lombardy Region, the Lombardy Environmental Foundation. A group of private entities (VALCAMONICA SERVIZI, EDISON, FERRINO, ACQUA SURGIVA). The activity allowed to drill 225 m of the largest and deepest glacier in Italy and to reach the maximum depth ever reached by an ice drilling in the Alps. More than 300 pieces of core were recovered, all transported to the central deposit of the EuroCold Lab of the University of Milan Bicocca, a laboratory dedicated to the study of ice cores where it is possible to simulate the environmental conditions of the cores under study (both temperature and cleaning). This project allow a strong collaboration with more private companies for develop new instruments (as: EOS classizer SPES). All these measures will allow us to better understand the behavior of the glaciers in the future. The glaciers, and those of the Adamello, due to recent climate changes are in strong retreat both in terms of surface and volume. The strength of the ADA270 International Project arises precisely from its integration into components that have an interest in understanding the environmental evolution that takes place in the Alps. A special protocol for use the ice cores stored in the Eurocold Lab is open for permit to recovery samples and propose different measurements.</p>	
<b>Publications</b>	-	

**Instruments**  
**Access Route**  
**Science Areas**  
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**Start Date**  
**Similar Submission?**  
**Industrial Links**

**Days Requested:**  
**Previous RB Number:**  
**DOI:**  
**Sponsor:**  
**Grant Number:**  
**Finish Date:**



## Sample record sheet

**Principal contact** Professor Barbara Delmonte, University Milano-Bicocca, ITALY  
**SRF Instrument** **Cold Laboratory** **Days Requested: 3**  
**Special requirements:**

### SAMPLE

<b>Material</b>	Ice as matrix, mineral dust, inorganic and organic chemical components, greenhouse gases, pollens, black carbons, vegetal rests, micrometeorites	-	-
<b>Formula</b>	-	-	-
<b>Forms</b>	Solid		
<b>Volume</b>	50 cc		
<b>Weight</b>	40 g		
<b>Container or substrate</b>	plasticbags or glassware	-	-
<b>Storage Requirements</b>	Frozen less than -30°C	-	-

### SAMPLE ENVIROMENT

<b>Temperature Range</b>	253.15 - 223.15 K	-	-
<b>Pressure Range</b>	- mbar	-	-
<b>Magnetic field range</b>	- T	-	-
<b>Standard equipment</b>	-	-	-
<b>Special equipment</b>	-	-	-

### SAFETY

<b>Prep lab needed</b>	Yes	-	-
<b>Sample Prep Hazards</b>	the samples must be maintained between -20°C to -50°C	-	-
<b>Special equip. reqs</b>	Clean rooms	-	-
<b>Sensitivity to air</b>	Yes	-	-
<b>Sensitivity to vapour</b>	Yes	-	-
<b>Experiment Hazards</b>	the researchers will work between -20°C to -50°C	-	-
<b>Equipment Hazards</b>	the instruments must be maintained between -20°C to -50°C	-	-
<b>Biological hazards</b>	-	-	-
<b>Radioactive Hazards</b>	-	-	-
<b>Additional Hazards</b>	-	-	-
<b>Additional Details</b>	the instruments must be maintained between -20°C to -50°C	-	-
<b>Sample will be</b>	Returned to user by instrument scientist (when inactive)	-	-

