



**iceXplore**

# THE SUBGLACIAL EXPLORATION PROJECT







**We love a challenge.** We breathe new life into projects that seem bogged down or impossible, and we have enough experience, heart and stomach to bring the most complex projects to fruition while remaining human. That's what our contacts like about us: they know they can count on us.







# PROJECT BACKGROUND

**MAKING THE  
INACCESSIBLE  
ACCESSIBLE,  
ABOVE AND  
BELOW GROUND.**

From experienced  
adventurers  
to eminent scientists,  
we have gathered  
an international  
team to carry  
out this  
ambitious  
project.

This exploration & scientific project is based on a 30 years experienced subglacial expedition all around the world from Greenland, to the high one into the Alps or in South America and the others massive continental glaciers as Kirgystzan one.

This authentic quest of the unknown will bring professional adventurers into a trip back into history and the future of our planet.

Subglacial exploration is an open up in the new era in Man's understanding of his changing environment.

A journey within the great excitement that comes from the discovery of a new realm: " something true, pure, hard but thrilling topped it" would say Janot Lamberton, first man reaching -200 meters into the ice.

## **GLACIAL HAZARDOUS RISK UNDERSTANDING AND CRYOBACTERIA TRACKING**

We will track invaluable information on Earth's climate and history and on the potential risk on human health.

With global temperatures increasing, glaciers are melting more and more, bringing additional water over and down the glaciers. There exists a risk of collapsing of walls retaining the water, generating a Glacial Lake Outburst Flood (GLOF).

GLOF events have been largely documented in almost all mountain ranges (Himalaya, Alps, Andes, Greenland...) causing thousands of fatalities and the destruction of large infrastructures (hydropower dams, water supply networks, roads and railways).

Identifying the geological, hydrological and mechanical conditions at work under glaciers will help predict their evolution.

As a result of the global warming, a quantity of cryoconite particles, algae and bacteria trapped for thousands of years in ice which are released to the surface.

Modern sequencing genomes and carrying out metagenomics allows us to have a much more precise overview of the entire microbial community. Improving our knowledge of the microbes will be a first step.

Then we will get a better understanding of them especially through a change in climate will impact microbial communities and their ecosystem functions.



**YOU MAY LIKE TO JOIN  
OR TO BE PART OF THE  
PROJECT, FEEL FREE  
TO JOIN US.**

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## AN INTERNATIONAL TEAM

**From experienced adventurers to eminent scientists, we have gathered an international team to carry out this ambitious project.**

Geophysicians and Glaciologists  
(**CNRS France** Laboratoire ISTerre,  
Danish institute, Geography Institute  
of Moscow).

Ice cave explorers and alpinists.

Bacteriologist (**Pasteur institute**,  
a non-profit foundation whose mission  
is scientific and medical research, hosts  
a Biological Resources Center (CRBIP)).

Photograph and video makers.

And a special mountain and extreme  
environment medical crew.

A total of 20 explorers on the field,  
34 collaborators supporting various  
side issues.

## THE VALUES

**To carry on this scientific exploration  
project, we might need to push the  
limits even breaking world depth  
record under the ice.**

However, there is something bigger  
behind, being a true witnesses of  
the Ice disappearance though global  
warming. We are deeply convinced that  
ice exploration can raise awareness  
of these major events and help  
improving a positive correcting way.

Regarding this deep challenge, we need  
a major partnership. If you feel you are  
sharing our values we would be glad  
to bring you in this adventure.

## EXPEDITION PROGRAM

**A five years exploration program trough:**

Pamir glacier (Baltoro)

Jostedales glacier (Norway)

Hielo sur

Alpine Tour (Alestch in Swiss  
and Mer de Glace in Chamonix)

Canadian glacier

Kangerlussuaq (Greenland)

The glacial Grand Canyon (Greenland)

Kikistan

And a coming surprising subject in Antartica.

The values brought by the SubGlacial  
Exploration Project are the following  
ones:

- Scientific research at the service  
of humanity
- The extreme feat and the exploration  
of the unknown
- Human performance  
for a new world record.
- The absolute purity and beauty  
of the three elements: water,  
air and ice,
- Transmission and education.
- Authenticity, sharing in discovery  
Sporting prowess in the service  
of science.



## some missions...

### Prospecting **IN THE HEART OF THE ICE.**

Bacteriological sampling tests for the Institut Pasteur at the bottom of the crevasses and mills of the Aletsch glacier in the Swiss Valais.

### Youtuber on Expedition **EXPEDITION IN KIRGHIZISTAN**

After Papua, it's off to Kyrgyzstan to explore the bowels of a glacier in the company of a famous French Youtuber.

### Glacial Lake Outburst Flood **AND 3D SCAN.**

Topography of ice mills using 3D Scan on the Aletsch glacier to establish a level of glacial risk in terms of flooding for Alpine populations.

### Exploration and topographic **SURVEY OF THE ICE MILL.**

Exploration and topographic survey of the ice mill with Luc MOREAU, associate researcher at the CNRS EDYTHEM laboratory.

### Supervision and safety **OF A FILM CREW.**

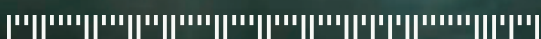
In the high mountains and on the Argentière and Mer de Glace in Chamonix.

### Autistic children **AT THE HEART OF THE ICE MILLS.**

A new ice story for a documentary on autism.

### Autonomous seismic listening station **ON THE LAURICHARD GLACIER.**

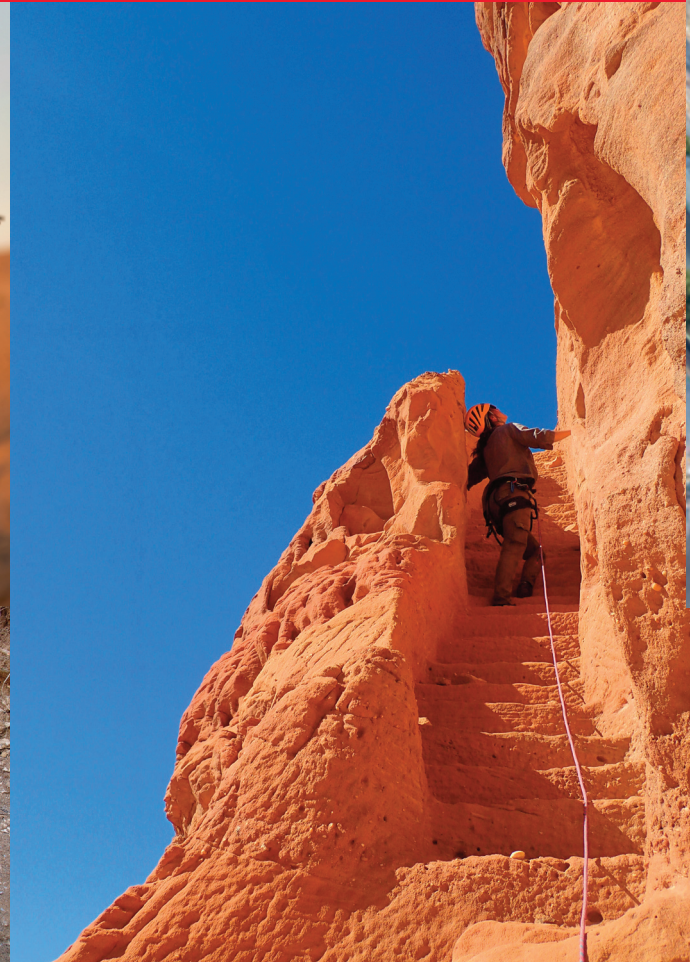
Installation of supporting structures including solar installations and seismographs.







THE UNUSUAL  
IS OUR EVERYDAY LIFE,  
BESPOKE IS THE NORM











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