



**permanet**  
Permafrost Monitoring Network

# **PermaNET**

## **Permafrost Long-term Monitoring Network**

### **Final Conference**



**1st Circular**

**June 28, 2011 – July 1, 2011**  
**Centre de Congrès, Chamonix Mont-Blanc, France**

## ***The PermaNET project***

Permafrost is highly sensitive to climatic changes. Permafrost degradation and related natural hazards affect traffic routes, tourism areas, settlements and infrastructures. The main problem is a lacking strategy for the consideration of these newly observed specific impacts of climate change in risk prevention and territorial development. With the joint development of a common strategy for dealing with permafrost and related hazards under changing climatic conditions and the creation of an Alpine-wide monitoring network the project aims at preventing natural hazards, at contributing to sustainable territorial development and at the implementation of good governance practices.

Results of the PermaNET project are

- an Alpine-wide permafrost monitoring network,
- a permafrost map for the entire Alpine Space
- guidelines for the consideration of permafrost in natural hazard and risk management
- guidelines for the consideration of permafrost in water resources management.

These results will be presented at the final project conference.

### **The Alpine Space permafrost monitoring network**

PermaNET collected metadata of the most important permafrost monitoring sites and compiled it into a standardized permafrost monitoring network. On key monitoring sites, new monitoring stations have been installed and instrumented.

PermaNET provides recommendations for policy-makers for building up national monitoring networks on national and regional scale and a handbook for the installation and maintenance of an Alpine-wide permafrost monitoring network with standards for data acquisition.

### **Alpine Space permafrost map**

PermaNET collected and compiled permafrost evidences into an inventory of permafrost evidences and elaborated an Alpine-wide map of the permafrost distribution.

### **Guidelines and recommendations**

PermaNET provides a state-of-the-art report about the effects of climatic changes to permafrost and related natural hazards, a SWOT analysis regarding the opportunities and limitations of the tested approaches for detection and monitoring of slope movements in permafrost areas, recommendations for the consideration of the effects of climate changes to permafrost and resulting natural hazards and recommendations for the consideration of permafrost in drinking water resources management

## ***PermaNET* project Final Conference**

The final conference of the *PermaNET* project will be held in Chamonix (France) on Tuesday 28<sup>th</sup>, Wednesday 29<sup>th</sup>, Thursday 30<sup>th</sup> of June 2011, and Friday 1<sup>st</sup> of July 2011.

**28<sup>th</sup> of June, 9:00-10:30:** Internal *PermaNET* partner meeting.

**28<sup>th</sup> of June, 11:00-12:00:** Press conference.

**28<sup>th</sup> of June, 14:00-18:00:** Workshop on methods for movement (photogrammetry, terrestrial & airborne laserscanning, inSAR, speckl & texture tracking) and thermal (rock sensors, electrical resistivity tomography, thermography) monitoring in permafrost environment.

**29<sup>th</sup> of June, 8:00-12:00:** Field trip to the Aiguille du Midi, 3842 m a.s.l. (by cable car).

**29<sup>th</sup> of June, 14:00-17:00:** Presentation of *PermaNET* results to scientific community, risk managers and stakeholders in natural hazard and water resources management.

**29<sup>th</sup> of June, 17:00-18:00:** Poster session about *PermaNET* results

**29<sup>th</sup> of June, 20:00-21:30:** Public conference by W. Haeberli (in French).

**30<sup>th</sup> of June, 8:00-16:00:** Field trip A, to the Pointe Helbronner (3462 m a.s.l., by cable car *via* the Aiguille du Midi) and Aiguilles Marbrées (3330 m a.s.l., on the Glacier du Géant, and a walk).

**30<sup>th</sup> of June, 8:00-16:00:** Field trip B, to the Dérochoir rock glacier (2500 m a.s.l., by cable car from Les Houches and Tramway du Mont Blanc, and a walk).

**1<sup>st</sup> of July, 10:00-16:00:** Field trip C, to the 100-m-deep borehole and rock glacier monitoring sites at Les Deux Alpes (Ecrins massif).

The public meeting is held at the Centre of Congrès, Chamonix, Mont-Blanc, France

Detailed information can be found at the project website [www.permanet-alpinespace.eu](http://www.permanet-alpinespace.eu)

### **Access and accommodation:**

You will find information about access to Chamonix and accommodation in the valley on the Office de Tourisme de Chamonix Mont-Blanc website:

<http://www.chamonix.com/accommodation,19,en.html>

Registration via email: [a.zischg@abenis.it](mailto:a.zischg@abenis.it)

**Contact:** [a.zischg@abenis.it](mailto:a.zischg@abenis.it), [philip.deline@univ-savoie.fr](mailto:philip.deline@univ-savoie.fr)



**Field trip A:** to the Pointe Helbronner and Aiguilles Marbrées (Mont Blanc massif)

**Field trip B:** to the Dérochoir rock glacier (Mont Blanc massif)

**Field trip C:** to the monitoring sites at Les Deux Alpes (Ecrins massif)