



GLACKMA brings together science, research, outreach, adventure and the lure of the unknown



Glaciers are natural sensors of changes in global warming

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GLACKMA Project

Based on solid empirical foundations developed over decades, the **GLACKMA** Project (Glaciers, Cryokarst and Environment) uses glaciers as natural sensors of changes in global warming.

In about 1985, the attraction of glacier caves and their interior rivers enthralled the geologist, chemist and speleologist Adolfo Eraso, and in 1996 Maria del Carmen Domínguez (Karmenka) joined him, in awe of the blueness of the glaciers and tremendously keen to apply her mathematical knowledge to something practical and useful.

In 2001 they began to collaborate on international projects, with Spanish national support, and established the **GLACKMA** network of measuring stations in Experimental Pilot Basins (EPB), located in polar areas of both hemispheres, to monitor hourly the discharge from the glaciers.

In the last decade, with the great personal effort of both researchers, eight measuring stations have been set up, and the work of scientific outreach and book publishing has begun.



GLACKMA Association

A new stage began in 2010 with the birth of **GLACKMA** non-profit making Association, aiming at adding new researchers and giving a new impulse to the tasks of outreach and sensitization. Why?

Because we believe in you, in your respect and sensitivity to the environment and the Planet Earth on which we live.

Because we believe in appropriate environmental education.

Because first global warming and then climate change need clear, objective and efficient information, backed up by high-quality research.

Because we would like to share our successes and our ups-and-downs with you, keep you informed and let you take part in the activities we have prepared especially for you.

Membership Form

By becoming a member of **GLACKMA** you will help support the scientific project and be able to take part in the activities prepared especially for you.

* Name and Surname: * Required information

* ID or Passport Number: * Annual Membership subscription
(These are the recommended amounts, you may vary them as you like):

* Organization ID (only for legal entities):

Organization Name:
(only for legal entities)

* Mailing Address: Organizations: 240€ per year

* City: * Post Code:..... Normal: 12€ per year

Country: Minimum: 6€ per year

Home Phone Number: Mobile Number: Other:

Email:.....

* Bank Account Number for Subscription standing order
CCC Number (20 digits). IBAN number for international payments. (Please add the account holder's name, if it is different)

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