



Project Glaciars 513

Climate change adaptation and disaster risk reduction in the face of glacier retreat in the Andean mountain range

Glaciars project in figures

The Cordillera Blanca range has 755 glaciers, covering an area of 527.62 km². This range has lost approximately 27 per cent (195.75 km²) of its total glacier area as registered in the first national glacier inventory, made in the 1970s.

ANCASH

Glacier retreat affects water availability, and has an adverse effect on the world population. Peru's 18 snow-capped mountain ranges have suffered great changes and physical processes over the last forty years, which have led to the gradual loss of 42.64 per cent of the total glacier area, or 870.66 km², the equivalent of ten years' water supply for the city of Lima*.

Source:
*Inventario Nacional de Glaciares y Lagunas 2014 - ANA (ANA - National Inventory of Glaciers and Lakes 2014)

** 2007 Report of the United Nations Environment Programme (UNEP)



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



University of Zurich



Swiss Agency for Development and Cooperation SDC



COMPREHENSIVE MONITORING AND EARLY WARNING SYSTEM



CURRICULUM PLAN IMPLEMENTED, which includes the subjects of climate change adaptation and risk management in the face of glacier retreat



MULTI-USE MANAGEMENT PLAN FOR WATER RESOURCE MANAGEMENT (IWRM), for water for human consumption and irrigation and energy, considering risk management



MEDIDAS DE ADAPTACIÓN AL CAMBIO CLIMÁTICO IMPLEMENTADAS



PUBLIC SERVANTS AND REGIONAL UNIVERSITY TEACHING STAFF TRAINED TO INCREASE PUBLIC SPENDING ON GLACIER MONITORING and their connection with climate change adaptation and risk management measures for water for human consumption, irrigation and energy, considering risk management



COMMUNITY PARTICIPATION AND INTEGRATION IN THE FORMULATION OF PLANS THAT INCLUDE DISASTER RISK MANAGEMENT AND CLIMATE CHANGE ADAPTATION



PUBLIC SPENDING PLANS



DIRECT AND INDIRECT BENEFICIARIES

The Cordillera Urubamba range has 117 glaciers and a total surface area of 26.39 km². To 2009, some 25.59 km² (61.69 per cent) had been lost, compared with 1970 coverage, partially inventoried at 41.48 km²

Peru is home to approximately **71 per cent** of the world's tropical glaciers. Its **2679** glaciers cover **0.12 per cent** of the country's surface.

The Andean Community countries have 95 percent of the world's tropical glaciers, which cover an estimated surface of 2500 km²**

ANCASH

Early warning system completed and equipment calibration in course

7 schools implemented and **23** in course

Now being implemented

6 measures implemented

20 people trained

100 per cent of communities included

Major activities linked to disaster risk management

4,562 people directly benefited (1150 households)
11,456 people indirectly benefited (2865 households)

CUSCO

Comprehensive monitoring system designed and being implemented

17 schools implemented

Completed

5 measures implemented

70 people trained

100 per cent of communities included

Major activities linked to crop and stock farming

1,516 people directly benefited (380 households)
3,790 people indirectly benefited

Number of lakes

Volume of lake water

Landslide disaster risk

Altered river flow

Accelerated desertification

Risk of mudslides and floods

Increasing due to glacier melt

