

THE FUTURE OF THE GLACIERS FROM THE PAST TO THE NEXT 100 YEARS FOREWORD

**International Symposium held in Torino (Italy) 18 - 21 September, 2014
For celebrating 100 years of the Bulletin of the Italian Glaciological Committee**

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ABSTRACT: Baroni C. & Salvatore M.C., *The future of the glaciers: from the past to the next 100 years*. (IT ISSN 0391-9838, 2015).

The International Symposium “The future of the glaciers: from the past to the next 100 years” was held in Torino (Italy) from 18 to 21 September, 2014 for celebrating the centenary of the Bulletin of the Italian Glaciological Committee. The “Bulletin”, published as *Geografia Fisica e Dinamica Quaternaria* (GFDQ), is currently in its third series. The topics of the meeting were focused on glacier mass balance, monitoring and observation, glacier geophysics, glaciological hazard, climate driven glacial change, glacier hydrology, periglacial/permafrost processes, and snow processes. A selection of the papers presented at the Symposium is published in this volume.

The centennial CGI activity represents the base of knowledge for prosecuting and improving Italian glaciological researches and for satisfying the increasing need for validated and reliable data for developing quantitative models of glaciers response to climatic warming.

KEY WORDS: Alpine glaciers, Glacier monitoring, Glacier inventory, Cryosphere, Global change

RIASSUNTO: Baroni C. & Salvatore M.C., *Il futuro dei ghiacciai: dal secolo scorso ai prossimi cento anni*. (IT ISSN 0391-9838, 2015).

Il Simposio Internazionale si è tenuto a Torino dal 18 al 21 Settembre 2014 per celebrare il centenario della pubblicazione del Bollettino del Comitato Glaciologico Italiano, oggi giunto alla terza serie con la rivista *Geografia Fisica e Dinamica Quaternaria*. I temi principali affrontati nel Simposio hanno riguardato i bilanci di massa, il monitoraggio dei ghiacciai, le ricerche geofisiche, la pericolosità glaciologica, la risposta dei ghiacciai ai cambiamenti climatici, l'idrologia glaciale, i processi glaciali e periglaciali e i processi nivali. In questo volume è pubblicata una selezione dei lavori presentati al Simposio.

La centennale attività del CGI rappresenta una solida base di conoscenza per proseguire e migliorare le ricerche glaciologiche italiane per soddisfare la crescente richiesta di dati validati e affidabili necessari allo sviluppo di modelli quantitativi della risposta dei ghiacciai al riscaldamento climatico in atto.

TERMINI CHIAVE: Ghiacciai alpini, Monitoraggio glaciale, Catasto dei ghiacciai, Criosfera, Cambiamenti globali

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THE INTERNATIONAL SYMPOSIUM ON THE FUTURE OF GLACIERS

The International Symposium “The future of the glaciers: from the past to the next 100 years”, was held in Torino (Italy) from 18 to 21 September, 2014 following the wishes of the President of the Council of Ministry of Italy and under the Patronage of: i) the Ministero dell’Ambiente e della Tutela del Territorio e del Mare, ii) the President of the National Science Council (Consiglio Nazionale delle Ricerche, CNR), iii) the Club Alpino Italiano (CAI), iv) the Italian Association of Physical Geography and Geomorphology (AIGeo), and v) the Regione Piemonte. The