

PERSPECTIVE ON 21TH CENTURY CLIMATE CHANGE FROM ICE CORE HISTORIES AND ICE FIELD EXPLORATION

Glaciers are reliable recorders of the Earth's climate and environment. In this lecture, a brief history of tropical ice core paleoclimatology and some of the lessons learned from research on the summits of the world's highest mountains will be presented. The most recent evidence for the acceleration of the rate of ice loss in the tropics with examples from Quelccaya, South America, Naimona'nyi, Himalayas and Kilimanjaro, Africa will be discussed, along with the Climatic impacts on past civilizations and the abrupt climate changes during periods of warmth in the Holocene (last 10,000 years) especially around 5,000 years BP. A clear and present danger in today's world is the decapitation of tropical glaciers such that valuable archives are being lost forever.

Videoconferenza di **Lonnie Thompson**

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Introduce Roberto Seppi



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ore 16:00**

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