



*Centre for Climate Change Impact*

*Centro Interdipartimentale  
per lo Studio degli Effetti  
dei Cambiamenti Climatici*



*Il Corso di Laurea Magistrale in Scienze Ambientali e il CIRSEC*

<https://www.dst.unipi.it/laurea-in-scienze-ambientali.html>,

<https://www.facebook.com/scienzeambientaliunipi>

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**Organizzano:**

**“Climate and Environmental changes:  
Past, Present and Future”**

**Pisa 16-17 January**

**Dipartimento di Scienze della Terra, Via S. Maria 53**

**AULA C First floor**

Organising committee: Zanchetta G., Regattieri E., Bini M., Vacchi M., Morigi C.

Future generations may view climate and environmental changes induced by human activity as the most important issue of their time. When future generations will look back on our time, they will be able to regret our inaction or they can thank us, albeit late, for our commitment. This will depend a lot on our awareness and on our sense of responsibility towards our children, and above all, grandchildren. In our country, a clear and widespread understanding of causes and impacts of human-induced climate and environmental changes is still missing. This because at different levels, including the academic world, the discussion is misled by poor information and clichés. For this reason the “Master Degree in Environmental Sciences of the University of Pisa” and his students have organized these two days of seminars held by international outstanding experts from various disciplines (Paleoclimatology, glaciology, archaeology, physical modelling, geochemistry). The aim is to illustrate to the broad public the background and complexity of the main climatic issues, and how different approaches can provide important information on our near future. In particular, seminars will stress the importance of the past climate as critical benchmark for an accurate understanding of the climate system and its present and future variability.

## Thursday 16 January

9,30-10.00 Introduction

Prof. Sergio Rocchi (Director of the Department)  
Prof. Giovanni Zanchetta (President of the Environmental Science MSC)  
Prof. Giacomo Lorenzini (Director of the CIRSEC)

10,00-10,40 Bernd Wagner (University of Köln ): Mediterranean winter rainfall in phase with African monsoons during the past 1.36 million years

10.40-11.20 Russell N. Drysdale (University of Melbourne): The synchronicity of abrupt climate change during the last glacial period

*11.20-11.40 Coffee break*

11.40-12.20 Carlo Barbante (University Ca' Foscari, Venice): Written in the Ice. Earth's Climate in the Last Million Year

12.20-13.00 Andrea Zerboni (University of Milan): Did humans make the Sahara brown? Reconsidering the anthropogenic impact of Holocene North Africa

*13.00-15.00 Lunch break*

15.00-15.40 Biagio Giaccio (IGAG-CNR): Explosive eruptions, chronology and synchronization of paleoclimate archives.

15.40-16.20 Gianluca Marino (University of Vigo): Glacial terminations, a key to understand the climate system

*16.20-16.40 Coffee break*

16.40.-17.20.00 Stenni Barbara (University Ca' Foscari, Venezia): Antarctic climate variability over the last 2000 years

17.20-18.00 Matteo Vacchi (University of Pisa): Sea level in a changing climate. Reconstructing the past to predict the future

## Friday 17 January

9.10-9.20- Introduction

9.20.00-10.00 Carlo Baroni and Maria Cristina Salvatore (University of Pisa): Glaciers, sensitive sentinels of climate change: past, present and future.

10,00-10,40 Paolo Mozzi (University of Padoa) Floods of the past and Holocene climatic variability

10.40-11.20 Adam Izdebski (Max Planck Institut for the Science of Human History): What triggers a climate crisis? Lessons from high-resolution historical and natural archives.

*11.20-11.40 Coffee break*

11.40- 12.20 Piero Lionello (University of Salento): Global warming and climate projection of the Mediterranean region.

12.20-13.00 Antonello Provenzale (IGG-CNR): Climate Change and wildfires: from the Mediterranean to the Arctic”

*13.00-15.00 Lunch Breack*

15.00-15.40 Sadori Laura (University La Sapienza, Rome): Human impact and climate changes from italian pollen records.

*16.20-16.40 Coffee break*

16.40-17.20 Chiara Boschi (IGG-CNR): Carbon sequestration as a Climate Change Mitigation Activity.

17.20-18.00 Eleonora Regattieri (University of Pisa): Interglacial analogues and global warming

18.00-18.30 Final discussion and conclusion