



Venice 2k

*available paleorecords in the context of a
Mediterranean climate reconstruction, ...
and some ideas*

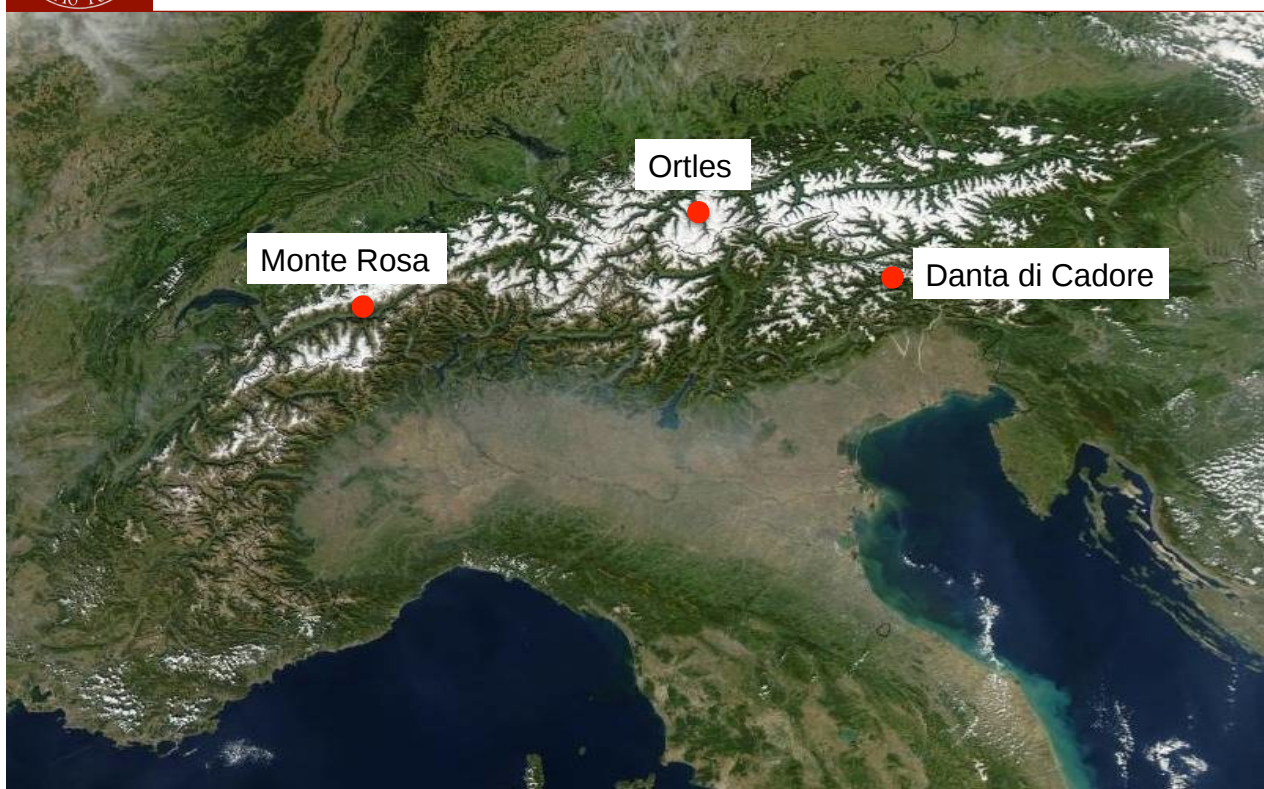
Carlo Barbante

*Istituto per la Dinamica dei Processi Ambientali - CNR
Dipartimento di Scienze Ambientali, Università Ca' Foscari, Venezia*

barbante@unive.it



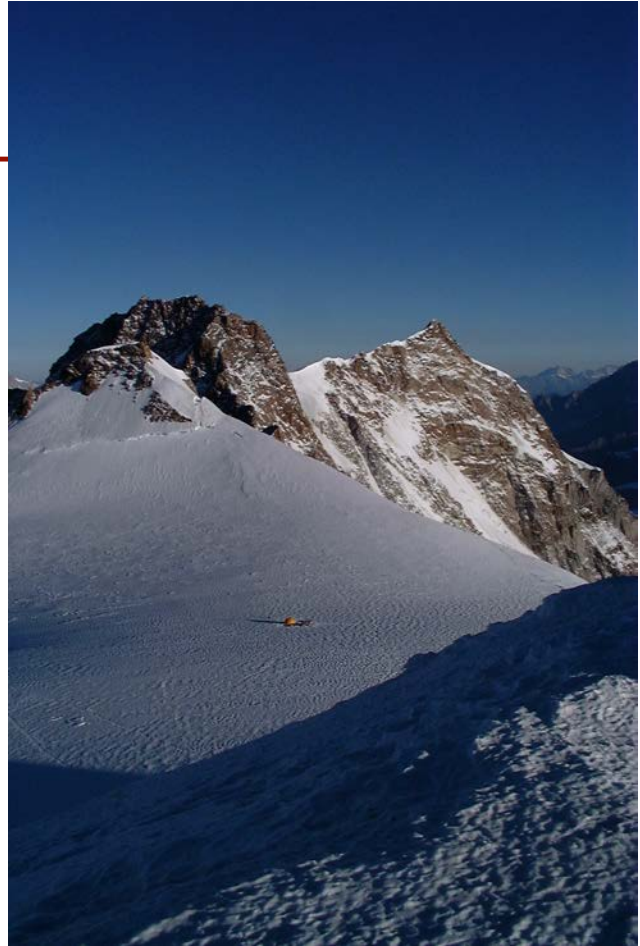
Sampling Sites



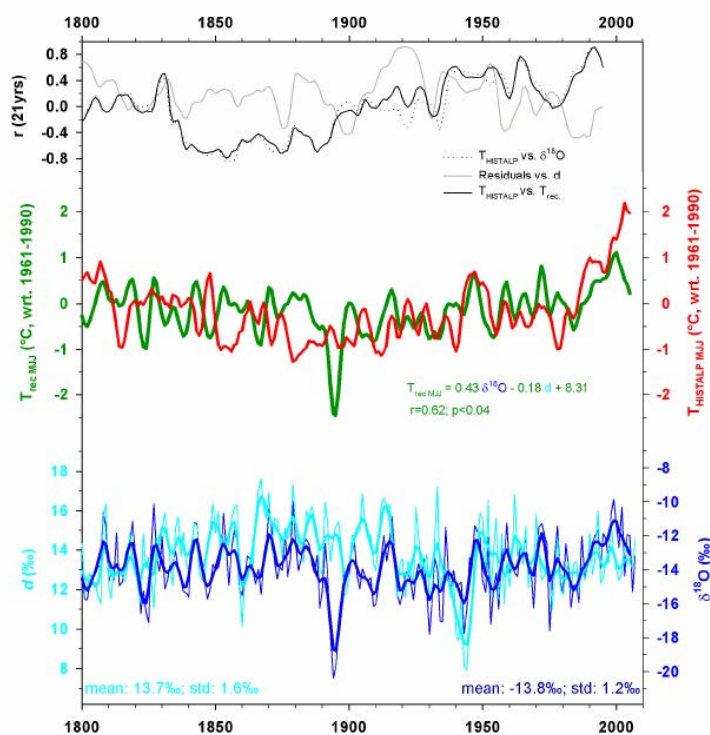


Drill site at Colle Gnifetti

- Altitude: 4450 m
- Ice temperature: - 9; -14 °C
- Stratigraphy: quite well preserved (dominated by summer snow)
- Accumulation rate: 0.2-1.1 m weq/yr
- Dating: 2000 yr



Temperature reconstruction



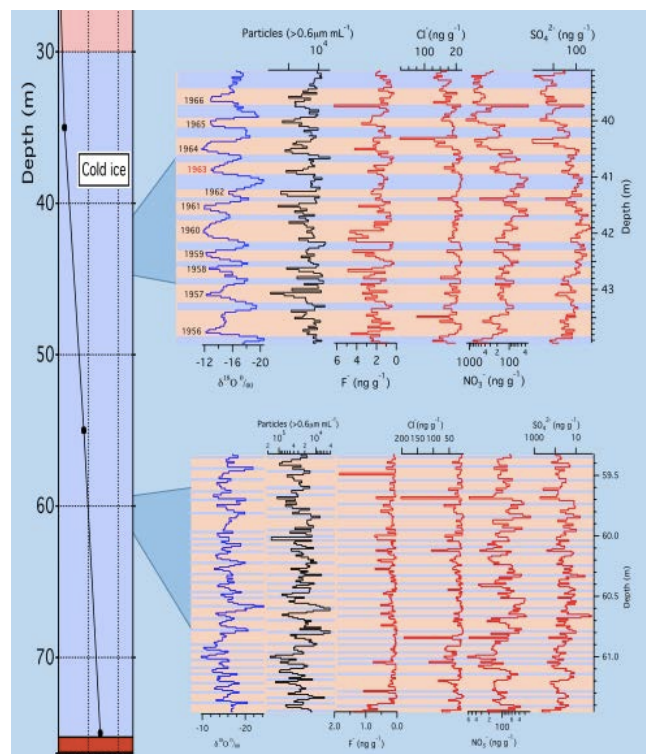
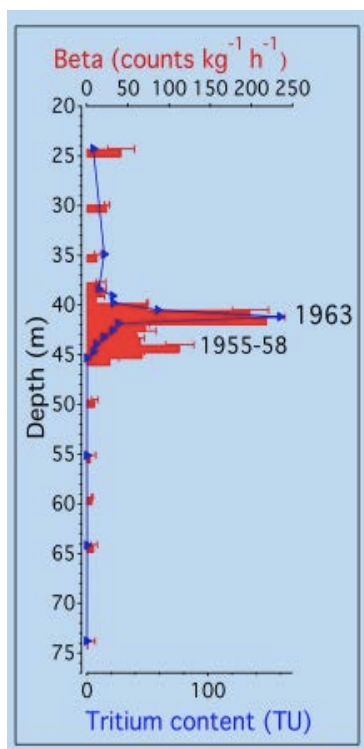


Drill site at Ortles

- Altitude: 3859 m
- Ice temperature: -1°C
- Stratigraphy: quite well preserved; 30 m of depth a transition from a temperate to a cold state
- Accumulation rate: 850 mm weq/yr
- Dating; 400 yr

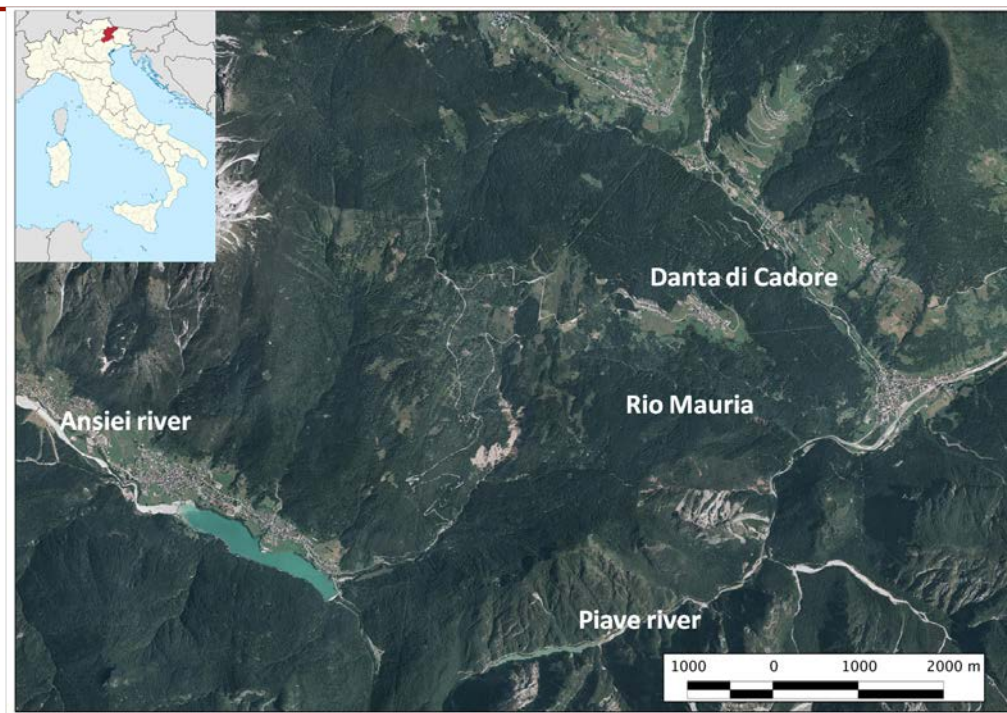


Drill site at Ortles





Drilling site: Danta di Cadore

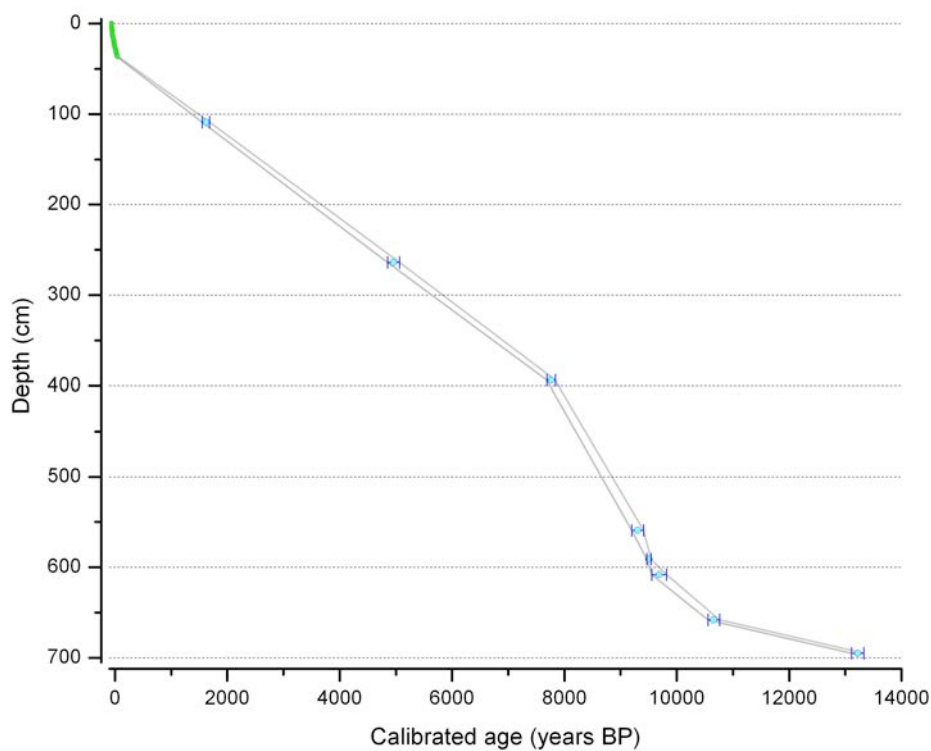


Coring peat bogs: different corers for different layers

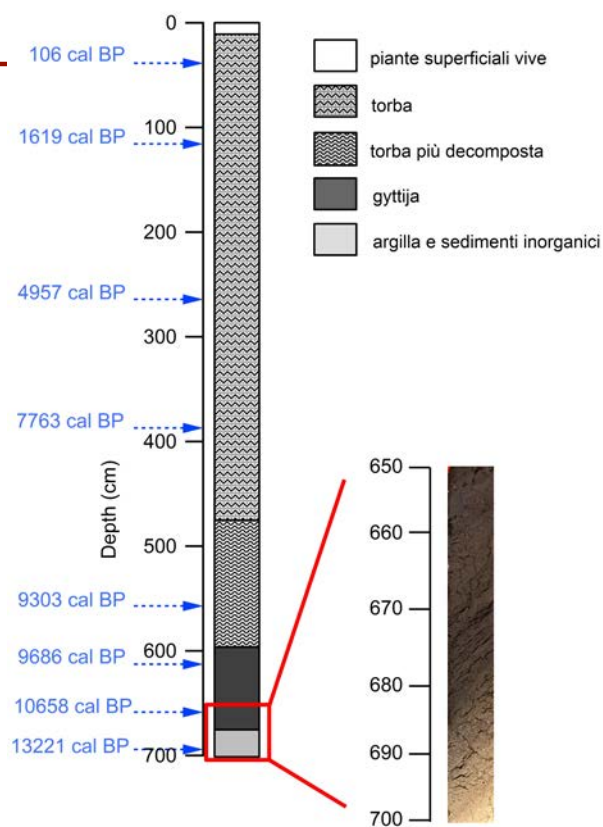




Dating ^{14}C & ^{210}Pb

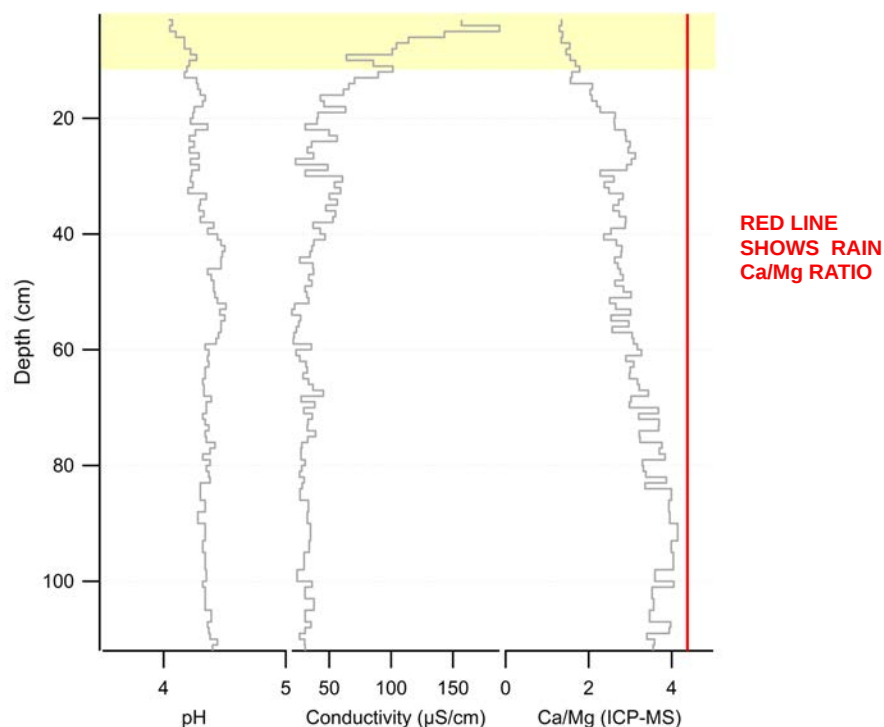


Peat bog stratigraphy



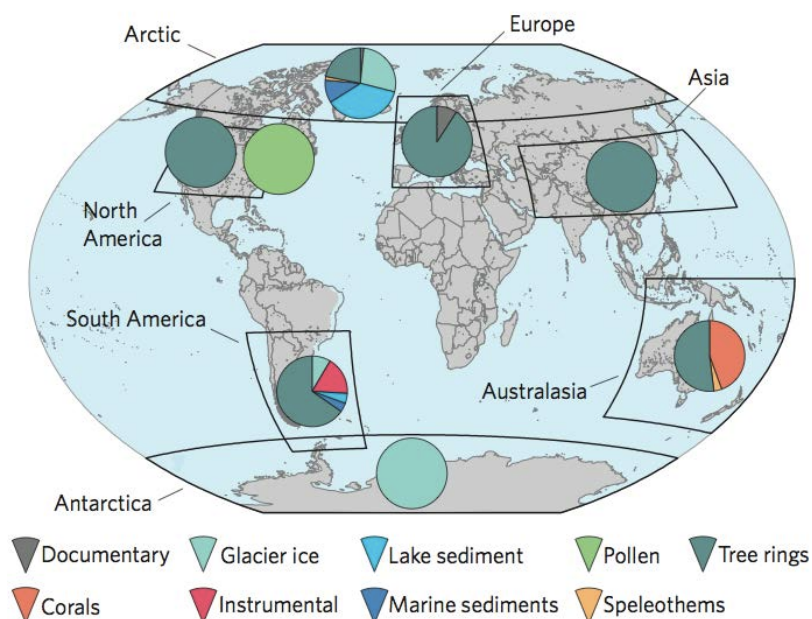


Ombrotrophic vs minerotrophic condition: first 2 kyr



PAGES 2k Network

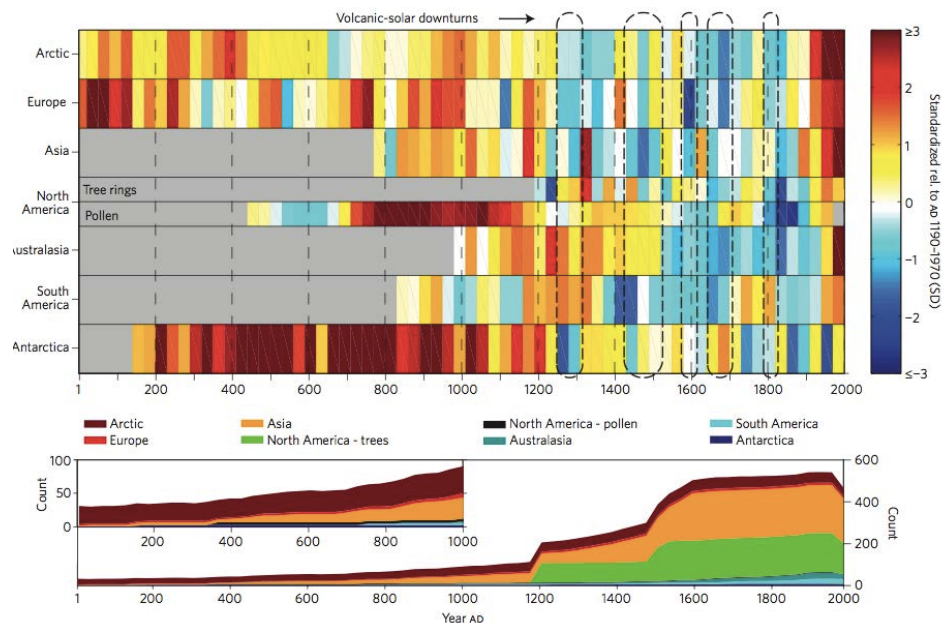
www.pages-igbp.org/workinggroups/2k-net-work



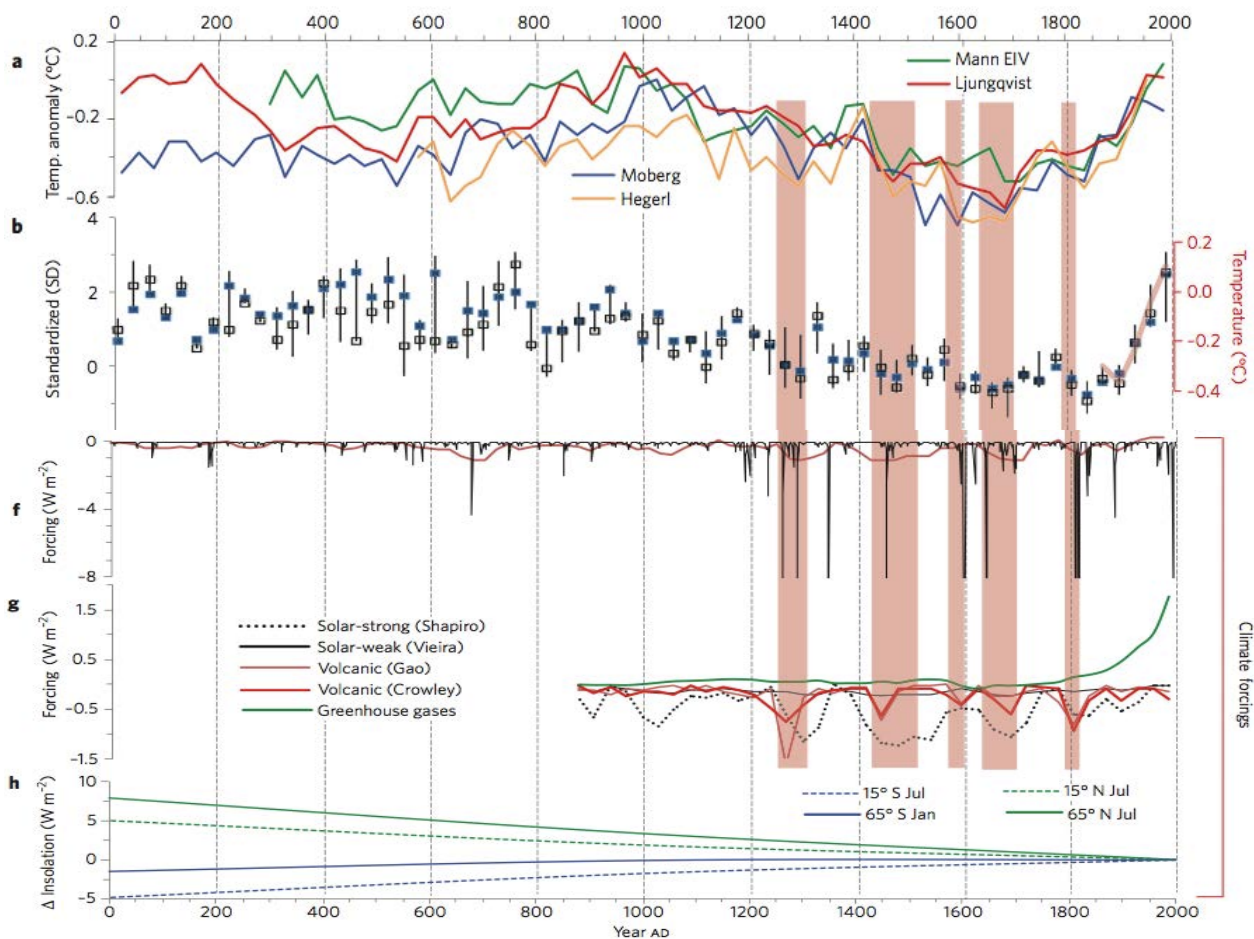


PAGES 2k Network

Continental-scale temperature reconstructions. 30-year-mean temperatures for the seven PAGES 2k Network regions



PAGES 2k Consortium, NG, May 6 2013





Italy 2k Network

- Only 11 record (10TR + 1D) in Europe !
- Lack of paleodata in Italy (last 2 kyr)
- Importance to have data from official databases (NOAA World Data Center for Paleoclimatology)
- NEED of a coordinated effort in Italy to manage existing data
- Use of adequate/standardized statistical tools
- Data/modeling effort is needed
- Climate Map of the last 2 kyr



Acknowledgments

Dr. Elena Barbaro, Dr. Francesca Bonetto, Dr. Warren Cairns, Prof. Gabriele Capodaglio, Prof. Paolo Cescon, Dr. Giulio Cozzi, Dr. Sara Crotti, Dr. Patrizia Ferretti, Dr. Jacopo Gabrieli, Dr. Paolo Gabrielli, Prof. Andrea Gambaro, Dr. Vania Gaspari, Dr. Petru Jitaru, Dr. Natalie Kehrwald, Dr. Elisa Morabito, Dr. Rossano Piazza, Dr. Luisa Poto, Dr. Chiara Rigo, Dr. Marco Roman, Dr. Andrea Spolaor, Dr. Angela Stortini, Dr. Elisa Tessarin, Dr. Giuseppa Toscano, Dr. Clara Turetta, Dr. Paul Vallelonga, Dr. Marco Vecchiato, Dr. Stefano Zambon, Valter Zampieri, Dr. Roberta Zangrando, Dr. Piero Zennaro



European
Research
Council