



Università
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di Ferrara

Dipartimento di Studi
Umanistici



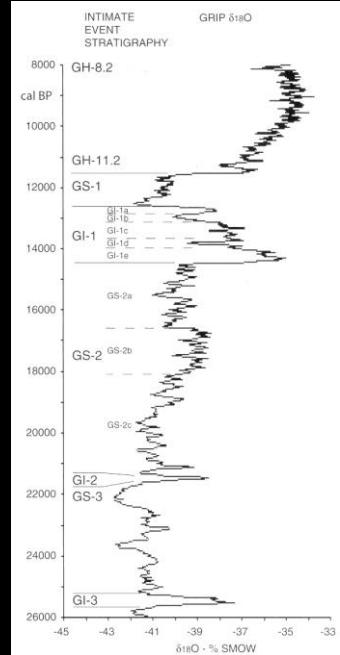
Ecologia Preistorica

Prof. Marco Peresani
A.A. 2021-2022

Lezione 17 – L'Olocene

Formal definition and dating of the GSSP (Global Stratotype Section and Point) for the base of the Holocene using the Greenland NGRIP ice core, and selected auxiliary records

MIKE WALKER,^{1*} SIGFUS JOHNSEN,² SUNE OLANDER RASMUSSEN,² TREVOR POPP,^{2,3} JØRGEN-PEDER STEFFENSEN,² PHIL GIBBARD,⁴ WIM HOEK,⁵ JOHN LOWE,⁶ JOHN ANDREWS,⁷ SVANTE BJÖRK,⁸ LES C. CWYNAR,⁹ KONRAD HUGHEN,¹⁰ PETER KERSHAW,¹¹ BERND KROMER,¹² THOMAS LITT,¹³ DAVID J. LOWE,¹⁴ TAKESHI NAKAGAWA,¹⁵ REWI NEWNHAM¹⁶ and JAKOB SCHWANDER¹⁷

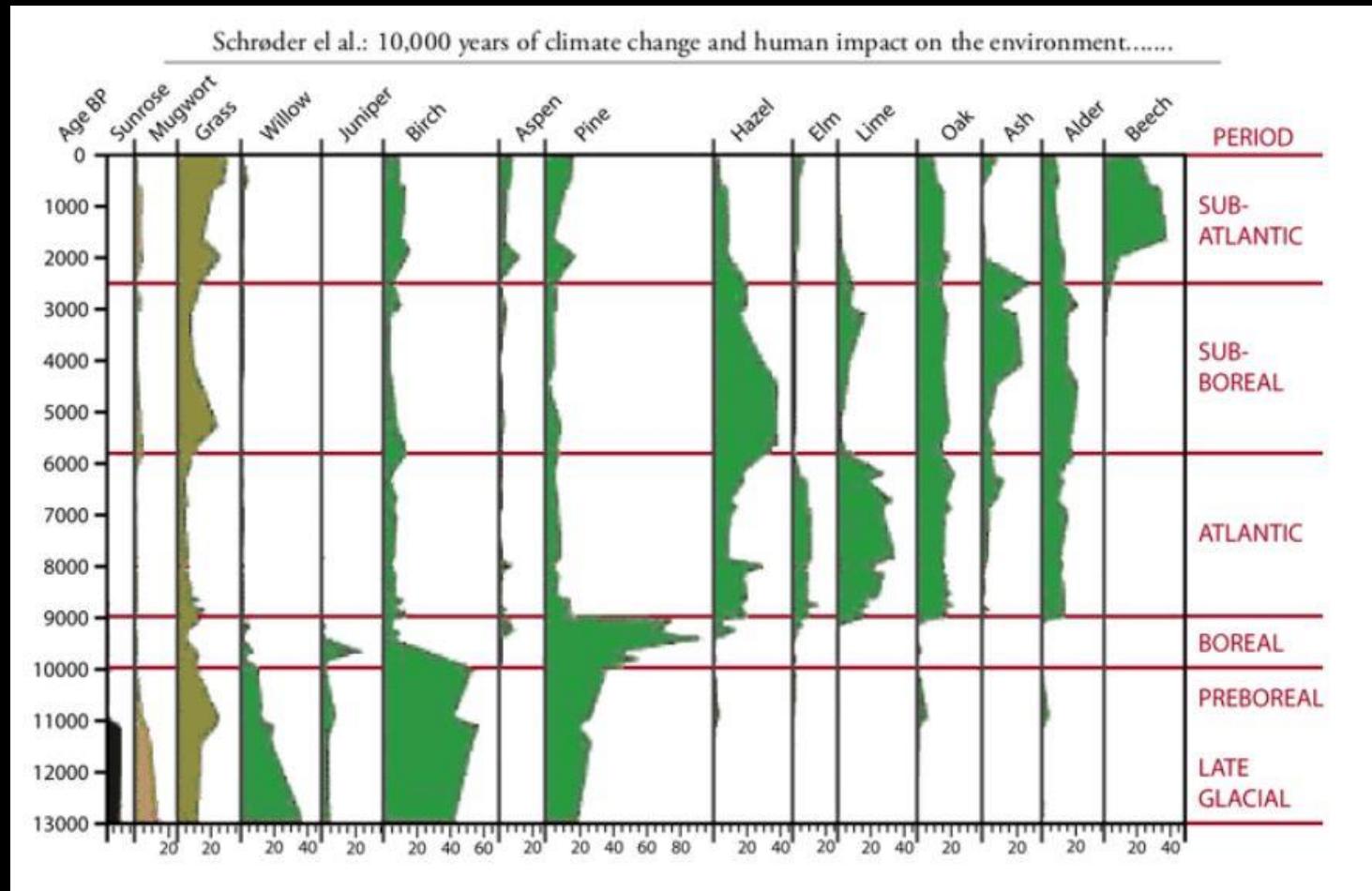


The Greenland ice core from NorthGRIP (NGRIP) contains a proxy climate record across the Pleistocene–Holocene boundary of unprecedented clarity and resolution. Analysis of an array of physical and chemical parameters within the ice enables the base of the Holocene, as reflected in the first signs of climatic warming at the end of the Younger Dryas/Greenland Stadial 1 cold phase, to be located with a high degree of precision.

Subdividing the Holocene Series/Epoch: formalization of stages/ages and subseries/subepochs, and designation of GSSPs and auxiliary stratotypes

MIKE WALKER,^{1,2,*} MARTIN J. HEAD,³ JOHN LOWE,⁴ MAX BERKELHAMMER,⁵ SVANTE BJÖRCK,⁶ HAI CHENG,^{7,8} LES C. CWYNAR,⁹ DAVID FISHER,¹⁰ VASILEIOS GKITIS,¹¹ ANTONY LONG,¹² REWI NEWNHAM,¹³ SUNE OLANDER RASMUSSEN¹¹ and HARVEY WEISS¹⁴

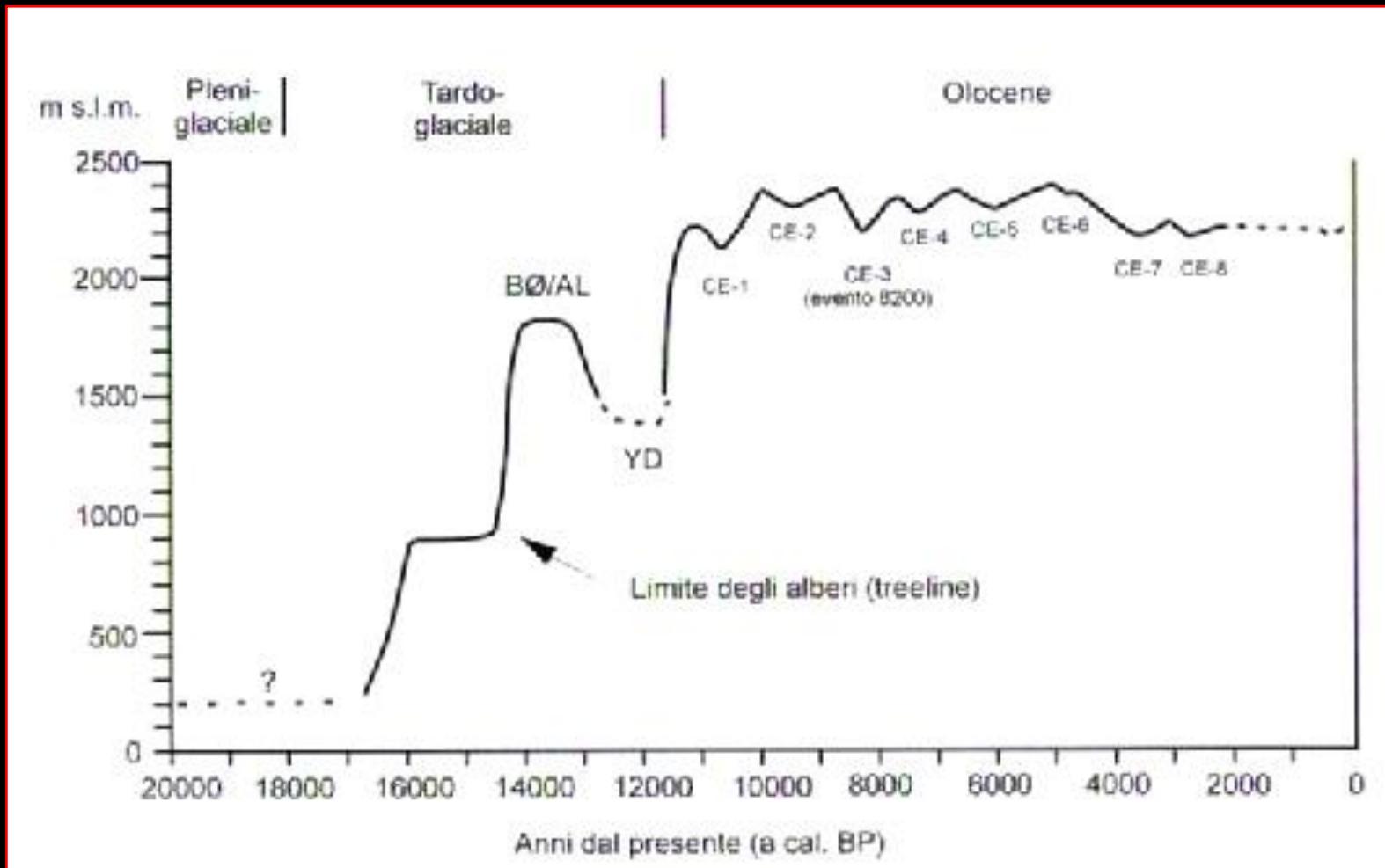
Suddivisione biostratigrafica tradizionale dell'Olocene basata sulla zonazione pollinica del nordEuropa

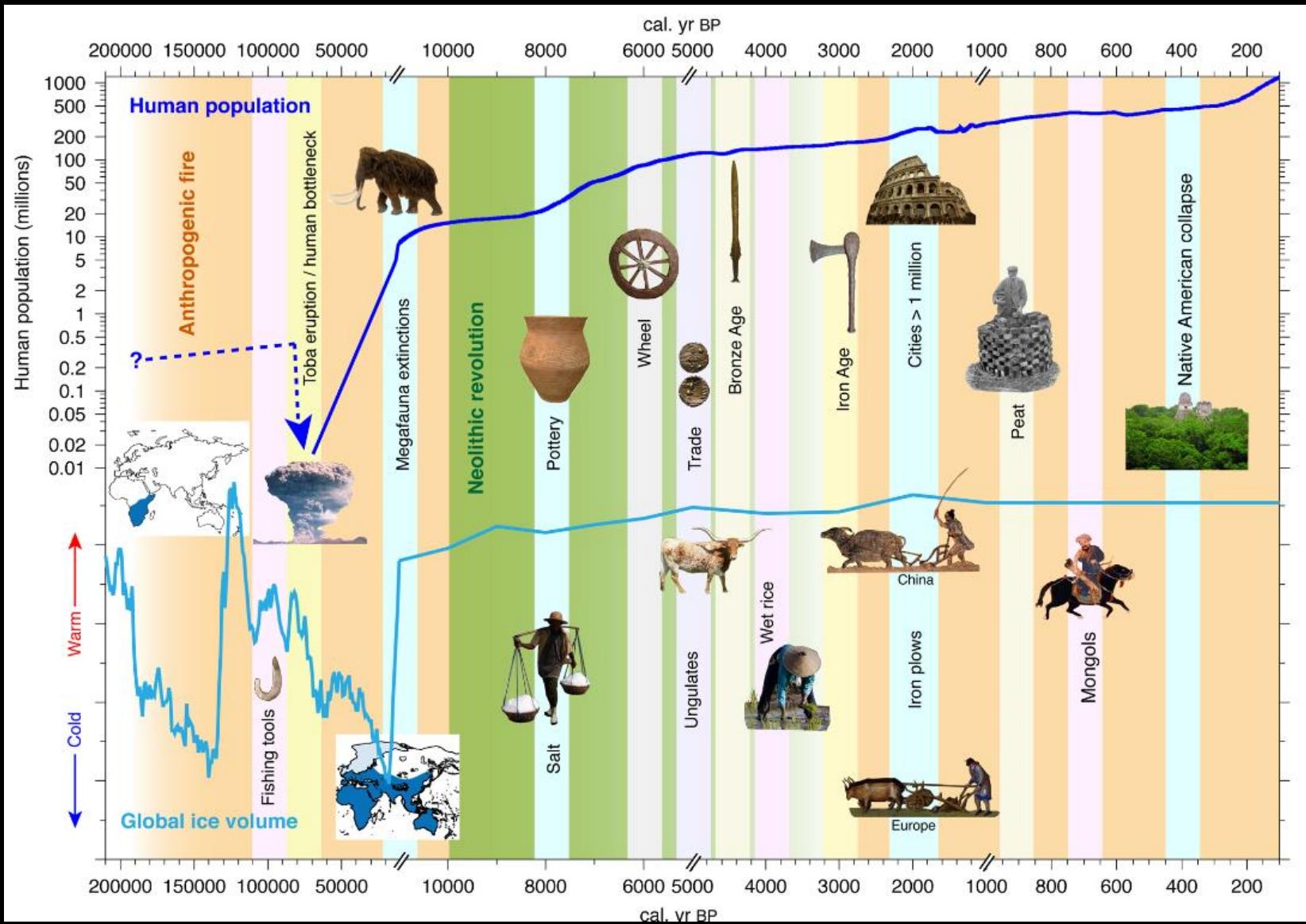


Il quadro ecologico mondiale nell'Olocene



La risalita del limite superiore degli alberi





The Optimum Climatic Map of Italy

By Antonioli F. & Vai G.B. Eds.

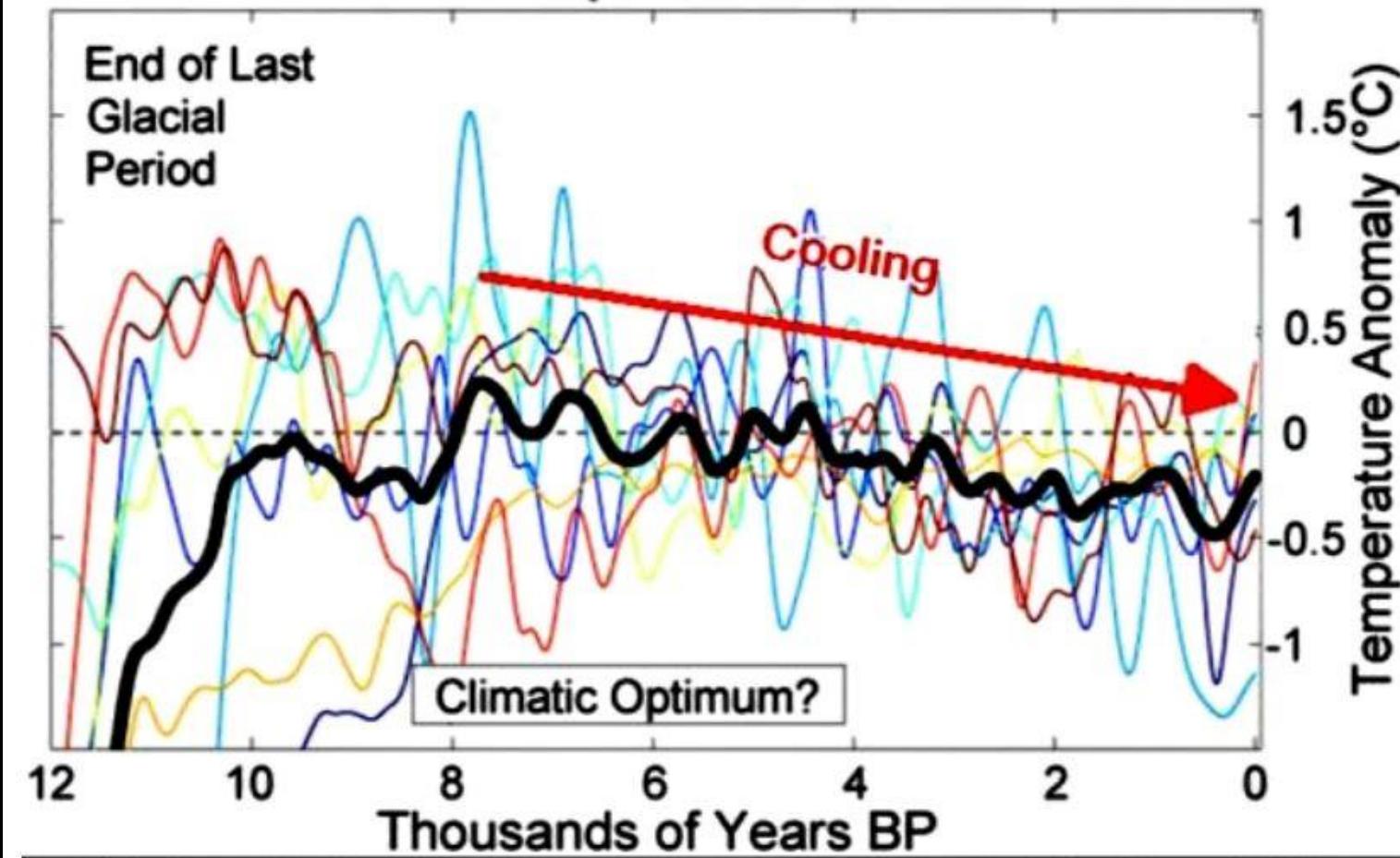
- lithological, geological and geomorphological units



Faune e ambienti della foresta termofila

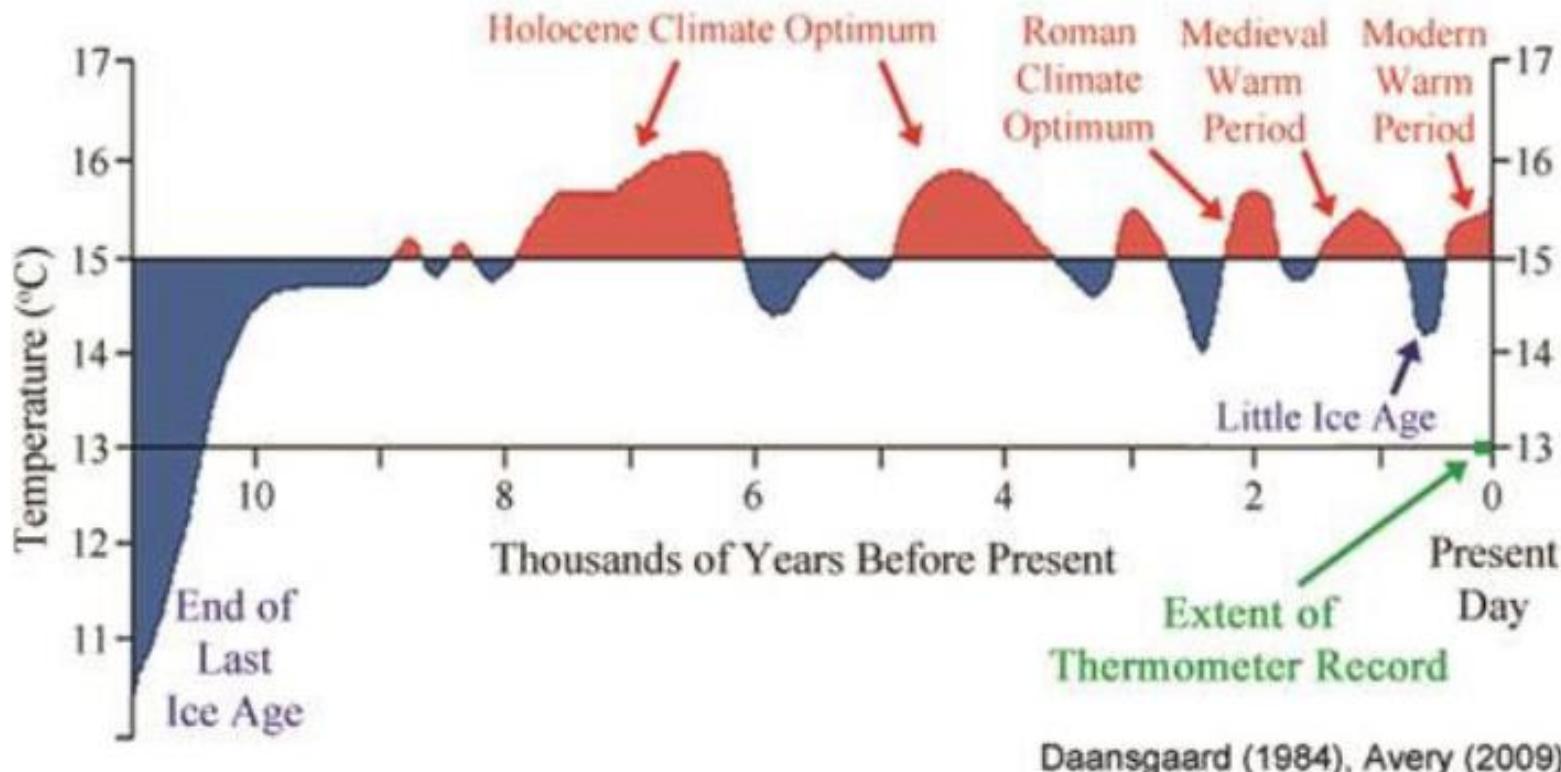


Holocene Temperature Variations



Temperatures of the Last 10,000 Years

(Ice core data from Crete site in central Greenland)



Holocene climatic instability: A prominent, widespread event 8200 yr ago



Contents lists available at ScienceDirect

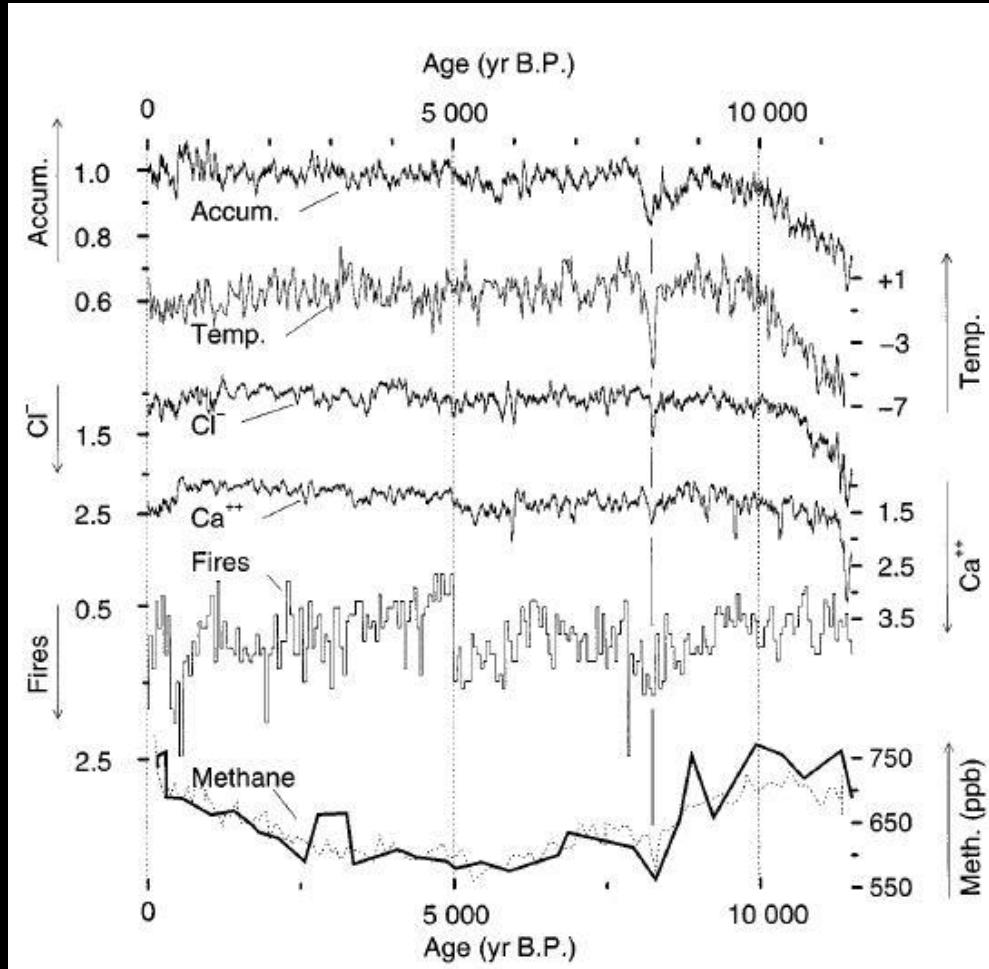
Quaternary International



journal homepage: www.elsevier.com/locate/quaint

The 8.2 ka BP Holocene climate change event and human population resilience in northwest Atlantic Europe

Seren Griffiths ^{a,*}, Erick Robinson ^b



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4.2 ka BP Event Workshop

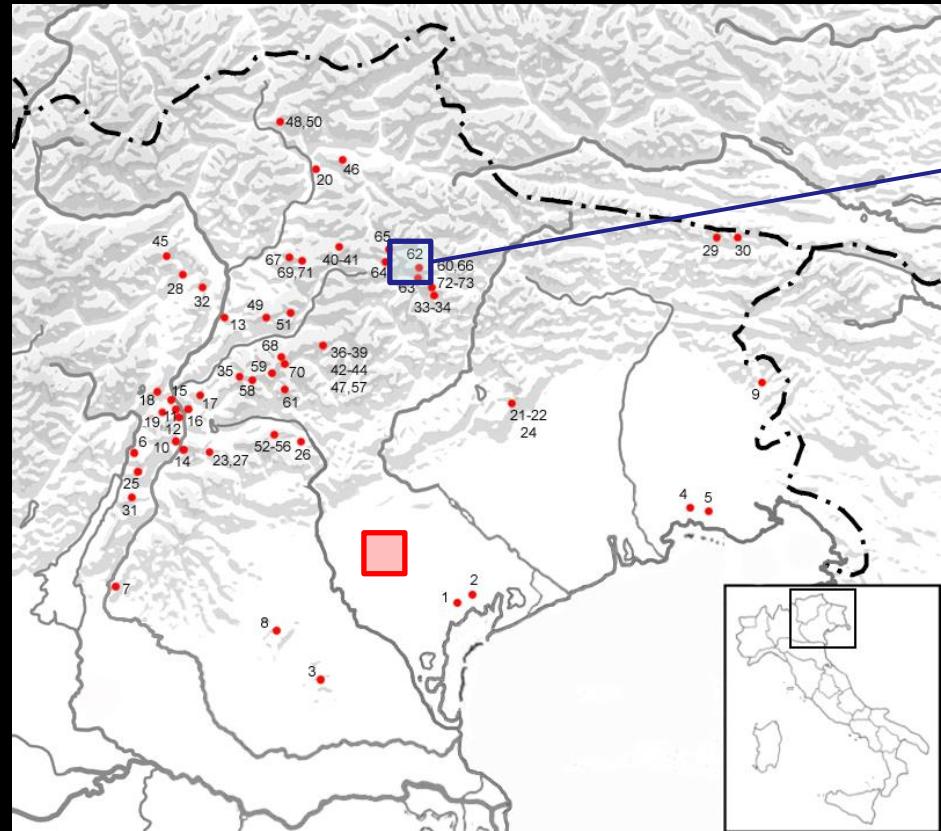
Pisa, 2018



L'evento arido 4.2 ka BP fu uno dei più severi eventi climatici dell'Olocene. Iniziato intorno al 2200 BC, esso probabilmente durò l'intero XXII secolo A.C. The L'aridificazione improvvisa che si sviluppò tra 4.2 e 3.9 ka BP e il raffreddamento sono registrati alla scala globale, in molti archive ad alta risoluzione, ma le sue cause, il timing preciso, le qualità e la quantificazione restano enigmatiche.

Due casi-studio
sull'Olocene

I casi: i siti mesolitici dell'Italia nord-orientale



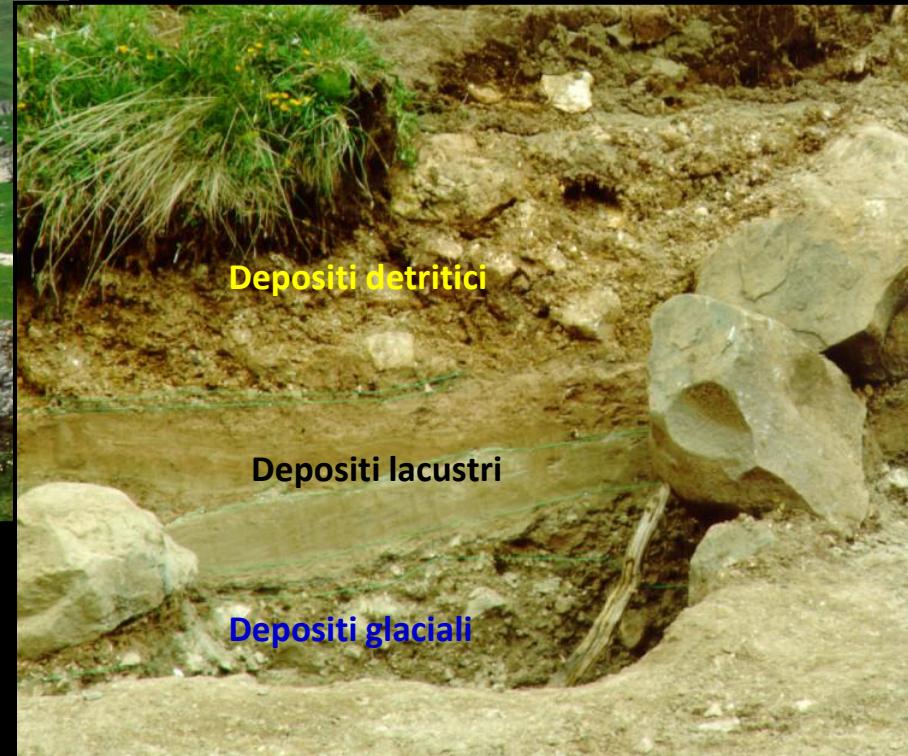
Principali siti mesolitici dell'Italia nord-orientale (quadrato rosso: Sorgenti del Sile)



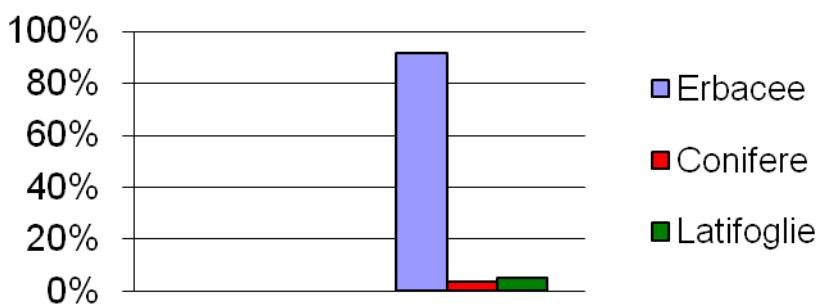
Mondeval de Sora (Belluno)



Indagini paleoambientali

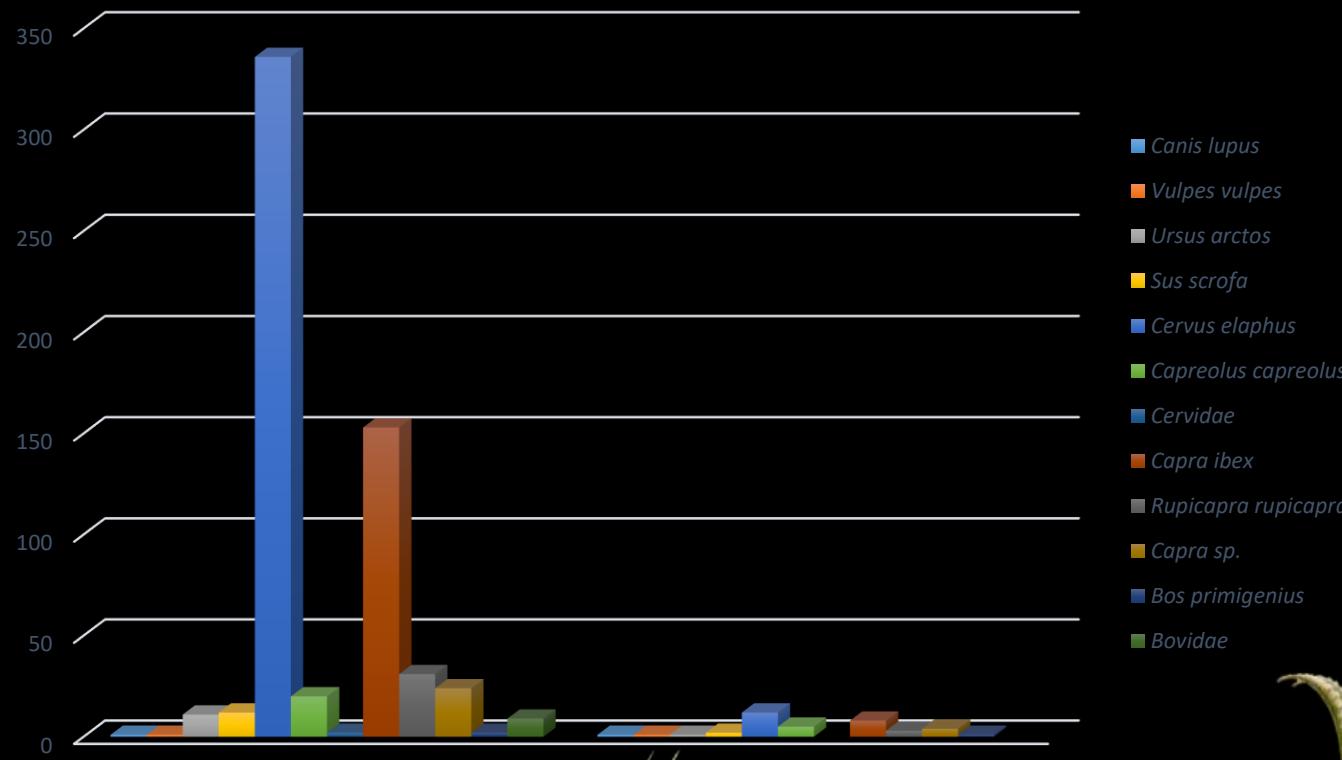


P. Mozzi 1992



Analisi polliniche (US 4b)

Sett. I, US 8 - Composizione dell'insieme faunistico



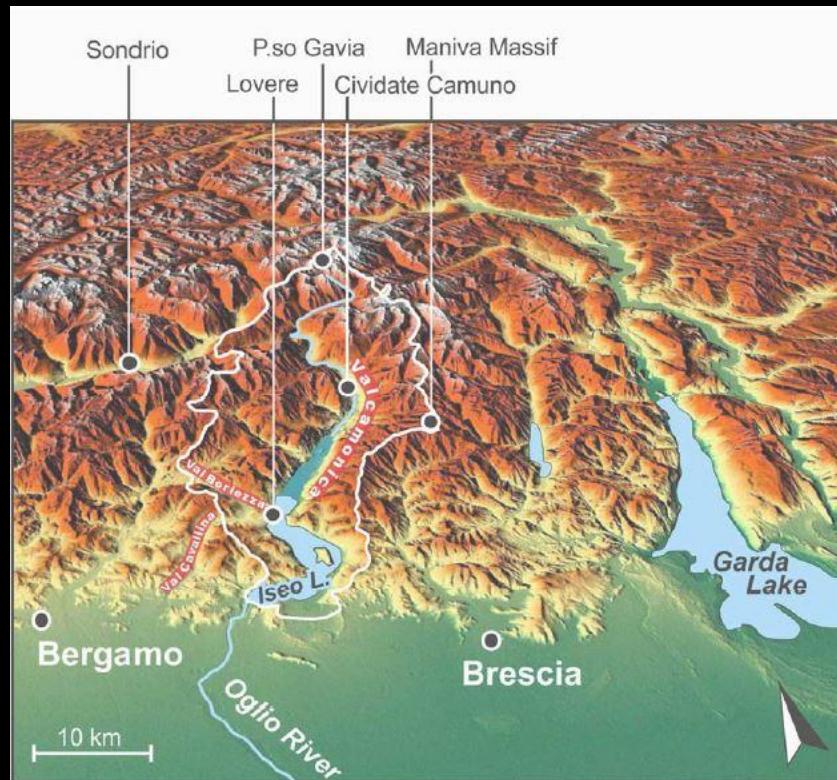
NR: 2284 > 2 cm

NR det: 591 - 26% NR





Il caso: ecologia e cambiamenti ambientali in Valcamonica

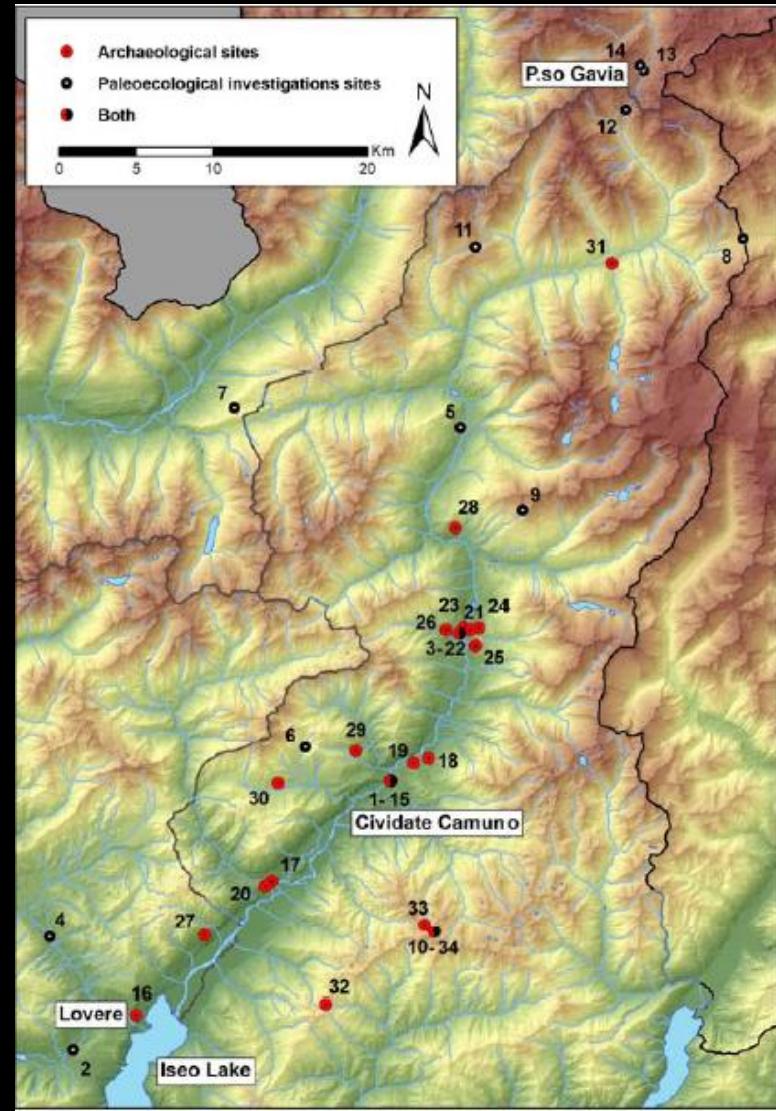


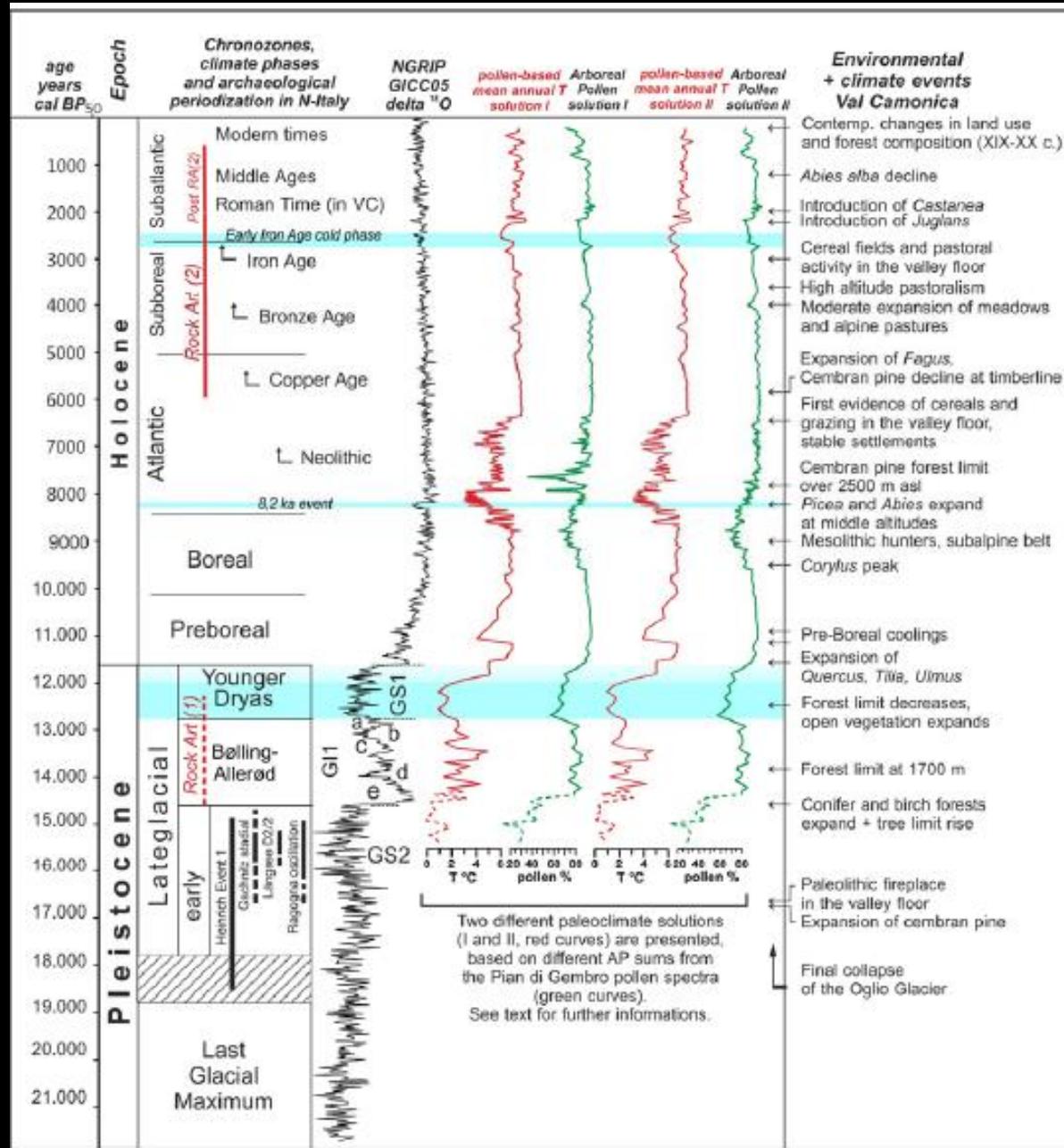
Available online <http://amq.sissa.it>
ISSN (print): 2279-7327, ISSN (electronic): 2279-7335

Alpine and Mediterranean Quaternary, 29 (1), 2016, 19–34



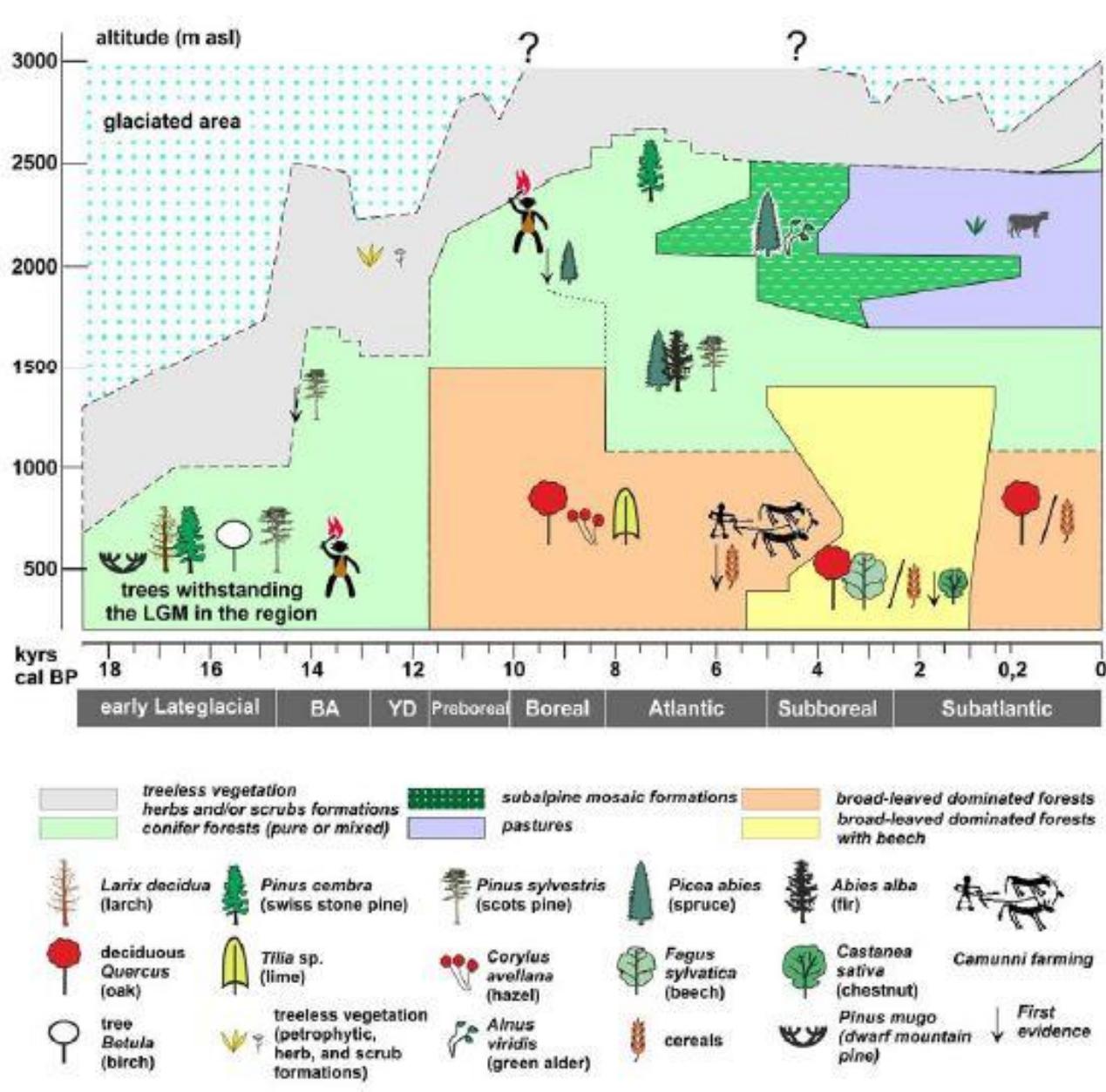
ECOLOGICAL CHANGES AND HUMAN INTERACTION IN VALCAMONICA,
THE ROCK ART VALLEY, SINCE THE LAST DEGLACIATION





Schema stratigrafico che reassume i principali eventi registrati nel vegetazione, clima e storia culturale della Valcamonica dall'ultima deglaciazione.

La barre azzurre indicano fasi fredde avvenute durante gli ultimi 12 mila anni cal BP e registrate sia nel record isotopico NGRIP che nella serie pollinica del bacino di Pian di Gembro.



Biosketch - storia della vegetazione della Valcamonica, 18.500 anni fa. La ricostruzione della vegetazione è rapportata al tempo e all'altitudine, a mostrare lo sviluppo temporale delle fasce vegetazionali. La risoluzione spaziale degli ecosistemi dipende dalla disponibilità dei record fossili all'altitudine di interesse.