

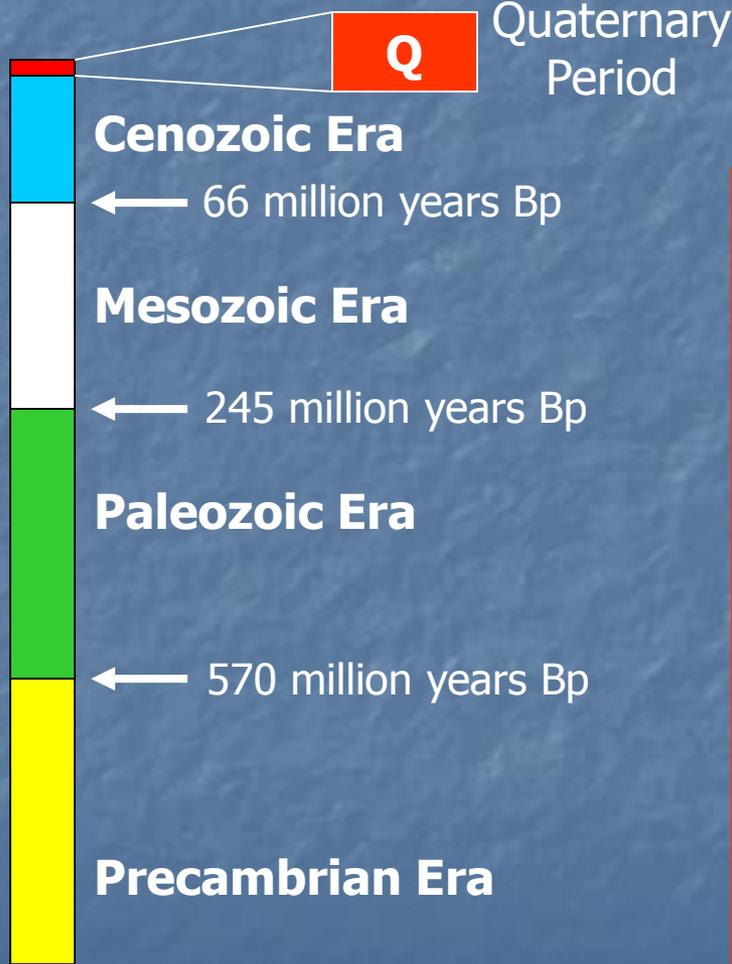
Ice Ages



Dr. Andrew L. Kozlowski
Dr. Robert S. Feranec

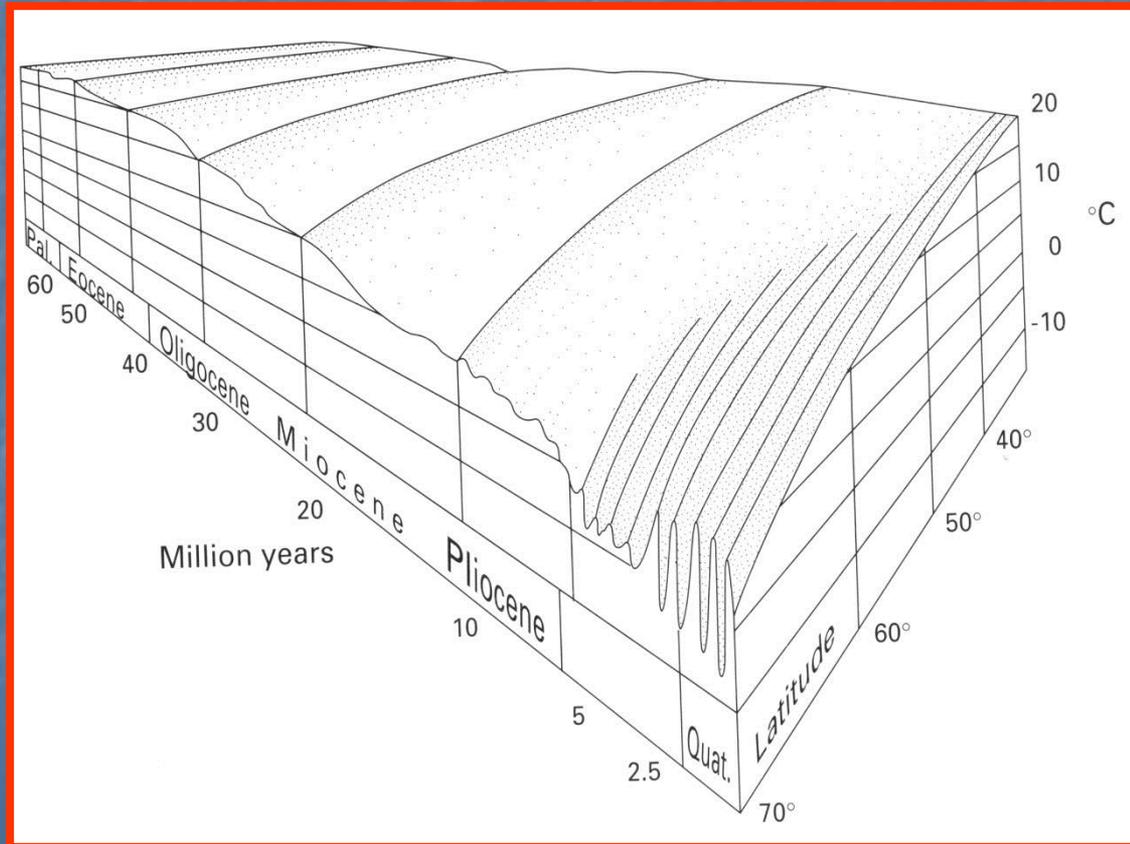
Pleistocene – A very recent time in Earth's history associated with abrupt climatic shifts and glaciation of mid-latitude continents “ the Ice Age”.

Abbreviated Geologic time



Holocene Epoch 11,600 Yr Bp - Present

Pleistocene Epoch 1.8 my-11,600 Yr Bp





TORONTO

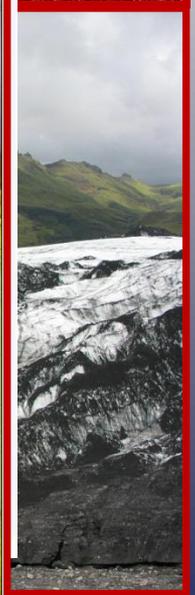
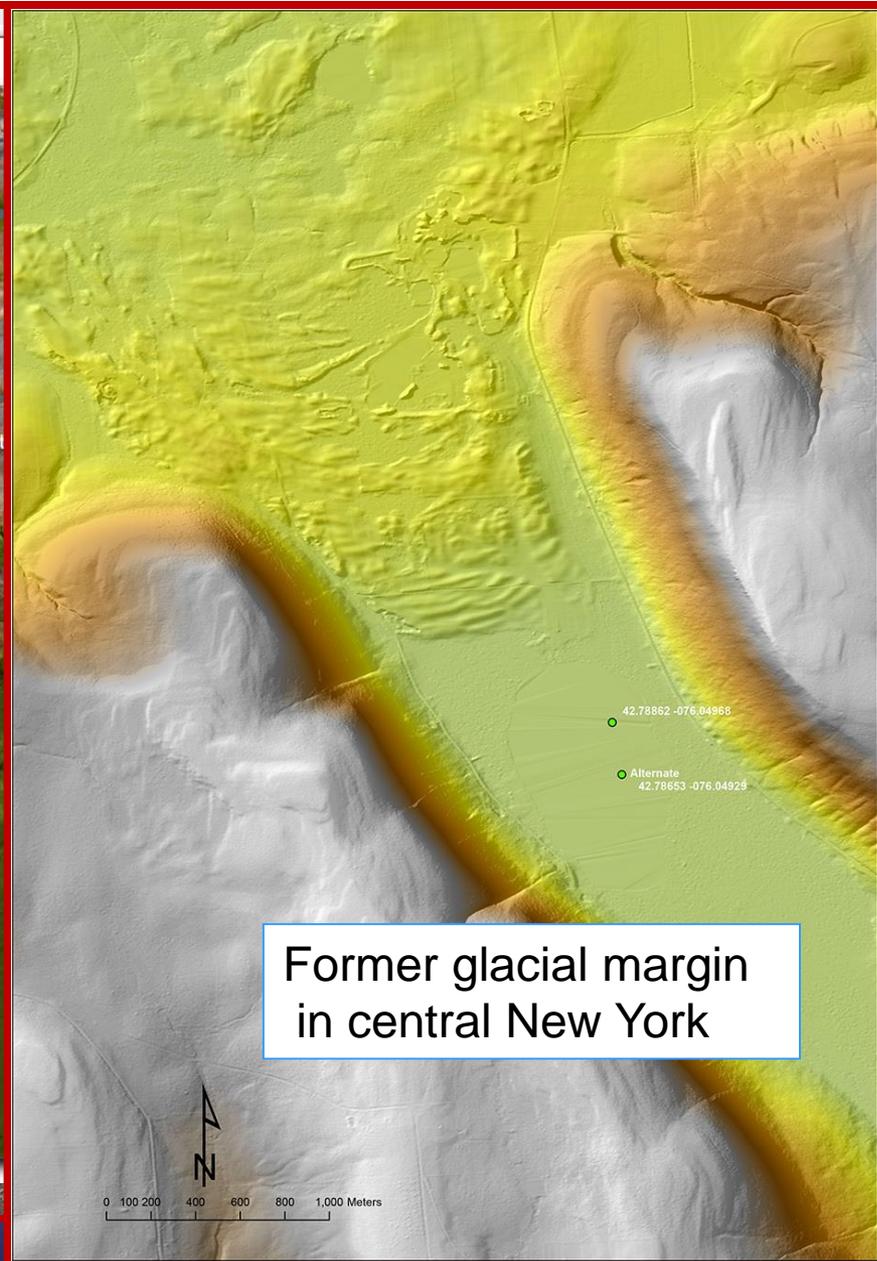
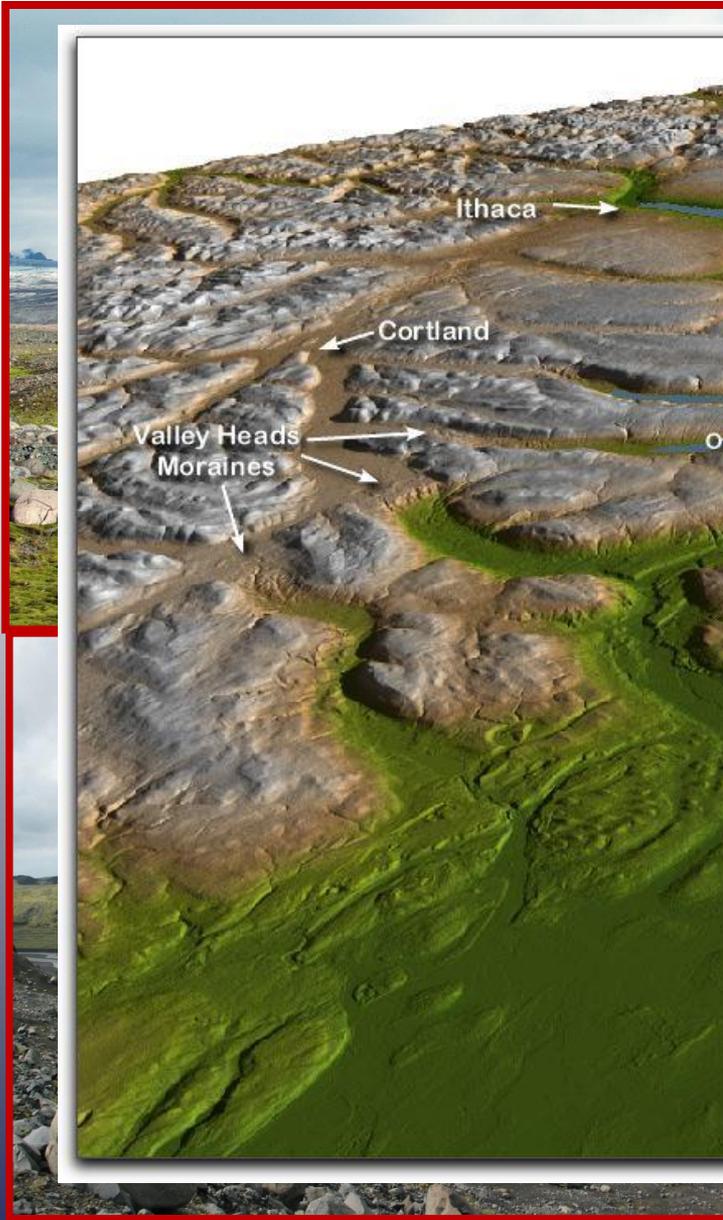
CHICAGO

BOSTON

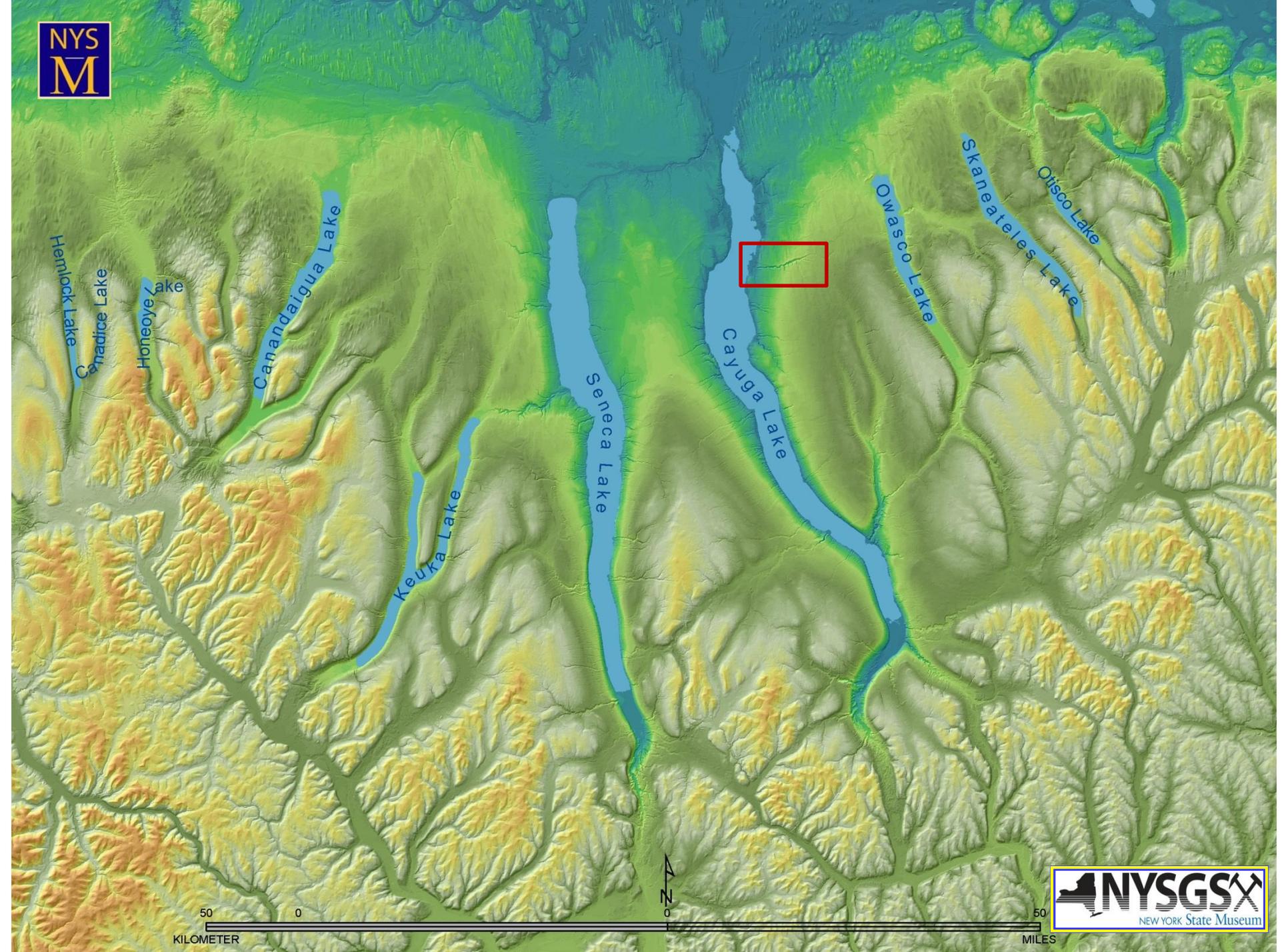
MONTREAL



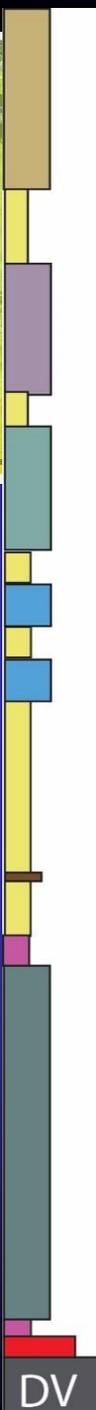
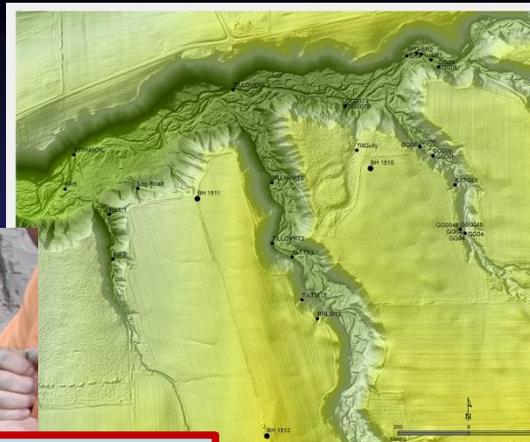
Glaciation of New York







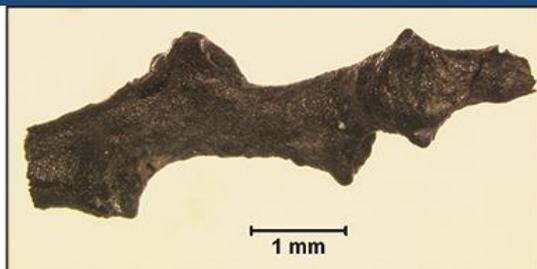
Ice Ages



Peat = Interglacial or warm interval ~50,000 years ago
Overlying till deposit indicates return to glaciation



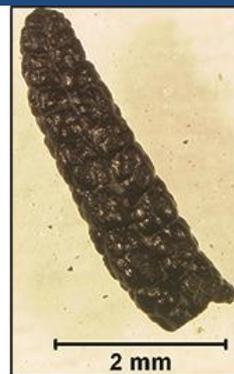
Core T2 100-105 cm needle



Core T2 143-150 Salix Twig



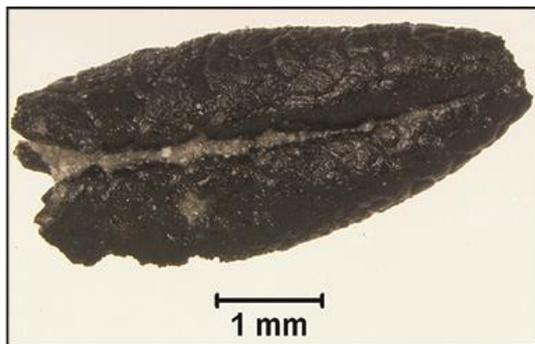
Core F2 85-95 cm Dryas



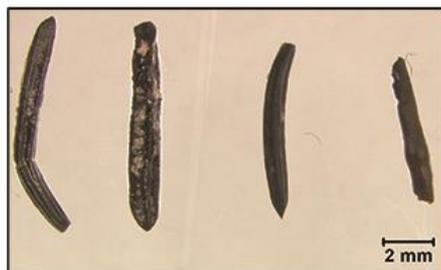
Core F2 85-95 cm Dryas



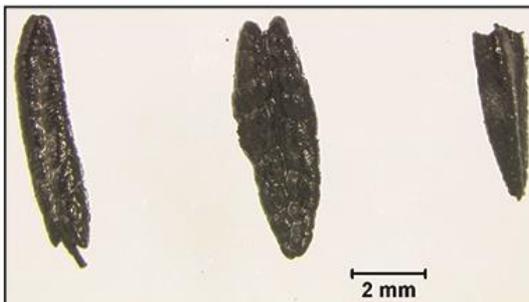
Core T2 115-125 cm bud



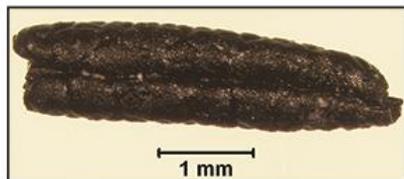
Core T2 150-160 cm B Dryas



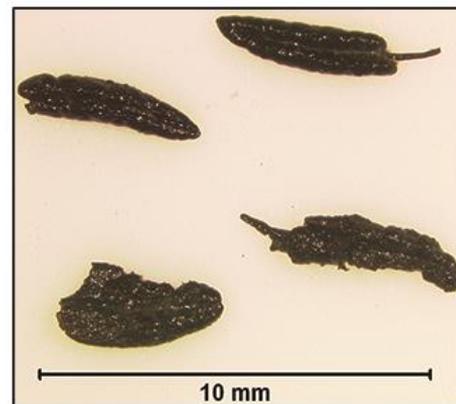
Core T2 125-131 cm Needles



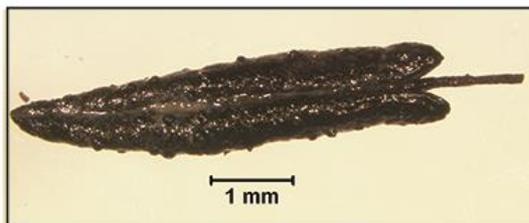
Core T2 170-180 cm A_B_C Dryas



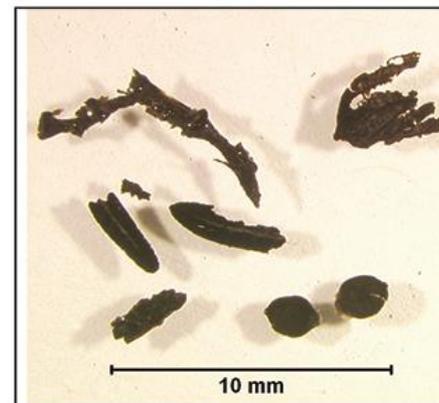
Core T2 143-150 Dryas



Core W3 210-220 cm Dryas

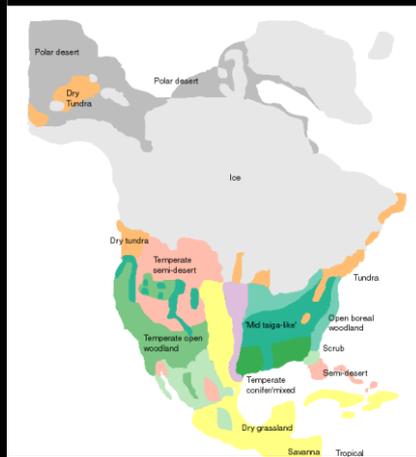


Core T2 180-190 cm Dryas



Core W3 230-240 cm Dryas

North American Biomes through Time



>17,000 years ago



@14,000 years ago



@8,500 years ago



Present day



>17,000 years ago



@15,500 years ago

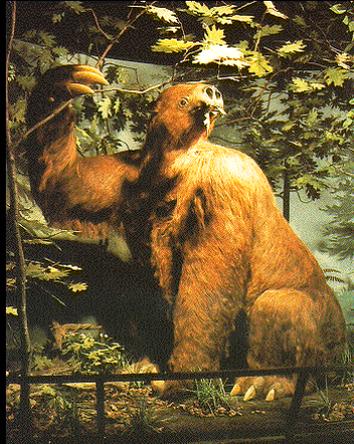


@14,000 years ago



@10,000 years ago

Jefferson's Ground Sloth
Megalonyx jeffersonii



Stag Moose
(*Cervalces scotti*)



Caribou
(*Rangifer tarandus*)



Giant Beaver
(*Castoroides ohioensis*)



Flat-headed peccary
(*Platygonus compressus*)





Radiocarbon Dating:



The Cohoes Mastodon died some time between 12800 – 13100 years before present.

Educational Products

Scientific Publications

RADIOCARBON, Vol 52, Nr 1, 2010, p 205–208 © 2010 by the Arizona Board of Regents on behalf of the University of Arizona

AMS RADIOCARBON DATES FROM PLEISTOCENE AND HOLOCENE MAMMALS HOUSED IN THE NEW YORK STATE MUSEUM, ALBANY, NEW YORK, USA

Robert S Feranec¹ • Andrew L Kozlowski

New York State Museum, 3140 Cultural Education Center, Albany, New York 12230, USA.

INTRODUCTION

Despite its rich paleontological record, only limited research has been published on the Pleistocene and Holocene vertebrate faunal record of New York State. This paper presents a set of dates from the

RADIOCARBON, Vol 54, Nr 2, 2012, p 275–279 © 2012 by the Arizona Board of Regents on behalf of the University of Arizona

NEW AMS RADIOCARBON DATES FROM LATE PLEISTOCENE MASTODONS AND MAMMOTHS IN NEW YORK STATE, USA

Robert S Feranec¹ • Andrew L Kozlowski

New York State Museum, 3140 Cultural Education Center, Albany, New York 12230, USA.

INTRODUCTION

During the Last Glacial Maximum (LGM) about 25,000 yr ago, the area of what is now New York State (USA) was almost entirely covered by the Laurentide Ice Sheet (LIS; Dyke et al. 2002). Sub-

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Implications of a Bayesian radiocarbon calibration of colonization ages for mammalian megafauna in glaciated New York State after the Last Glacial Maximum

Robert S. Feranec*, Andrew L. Kozlowski

Research and Collections, New York State Museum, Albany, NY 12230, USA



Online Education



NEW YORK STATE MUSEUM x

exhibitions.nysm.nysed.gov/cohoesmastodon/

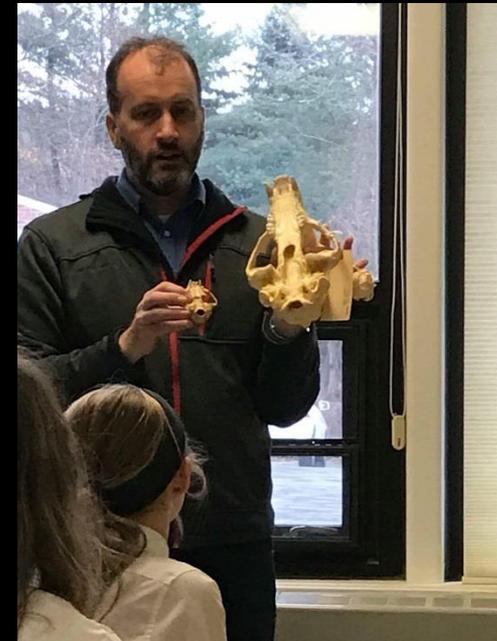
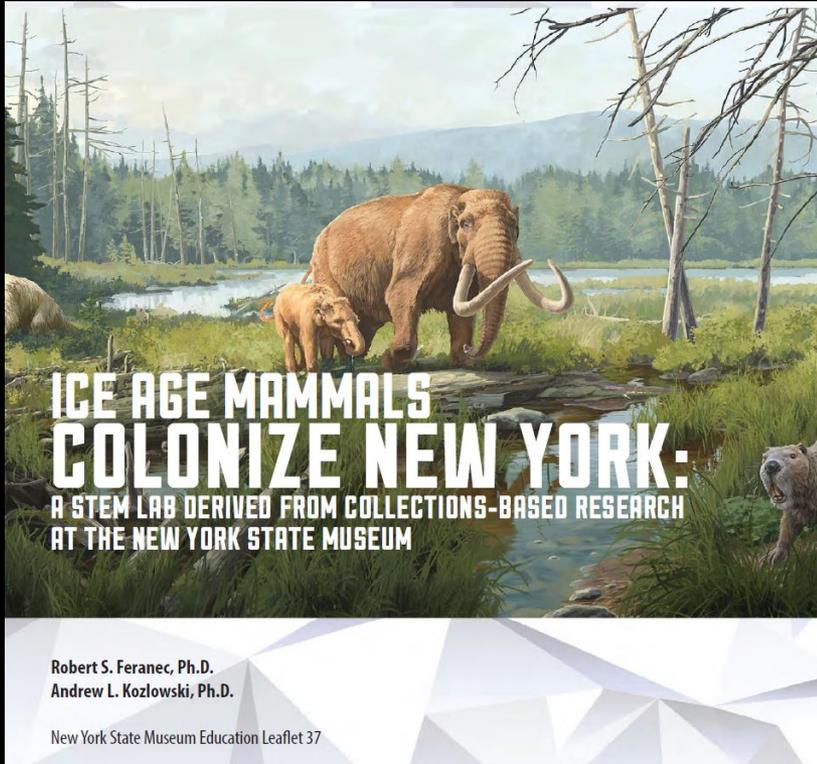
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THE COHOES MASTODON DISCOVERY & LIFE ON DISPLAY MASTODON FACTS EXPLORE & MORE

THE COHOES MASTODON

For the past 150 years, the Cohoes Mastodon has been a beloved feature of the New York State Museum.

Resource(s) for Teachers/Students



Societal Outreach

