



# AWRA, UCOWR, & NIWR 60th Anniversary Joint Water Resources Conference



SEPTEMBER 30 - OCTOBER 2, 2024  
HYATT REGENCY ST. LOUIS ARCH  
ST. LOUIS, MO

# 2024 AWRA, UCOWR, & NIWR Water Resources Conference

## Stormwater Policy and Management

### Session 23

**PRESENTERS: Caleb Hadley**

All rights reserved. No part of this presentation, publication, research or materials may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author(s).

# Wetness Persists: The Aqueous Natural History of Chicago

## El Agua Persiste: La Historia Natural Acuosa de Chicago

Caleb Hadley, Ron Henderson, Matthew A. Shapiro, Hao Huang, David Lampert, Brent Stephens, Maria Villalobos Hernandez, Michael Sansone



# The Care of Creation

*“We are losing our attitude of wonder, of contemplation, of listening to creation, and now we can no longer interpret in it what Benedict XVI calls ‘the rhythm of the story of love between God and Man’ ... we no longer read [creation’s] signs.”*

*– Pope Francis*

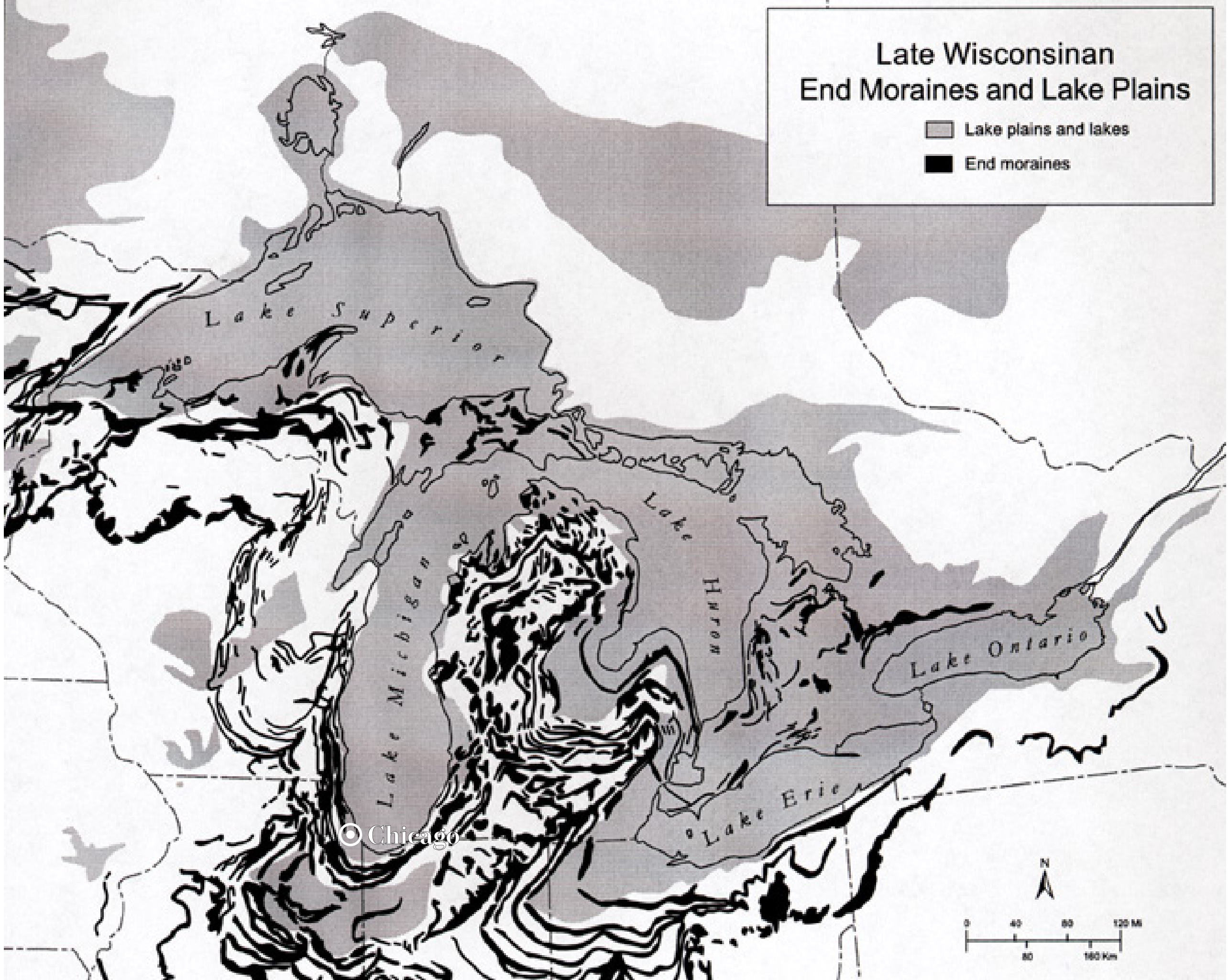


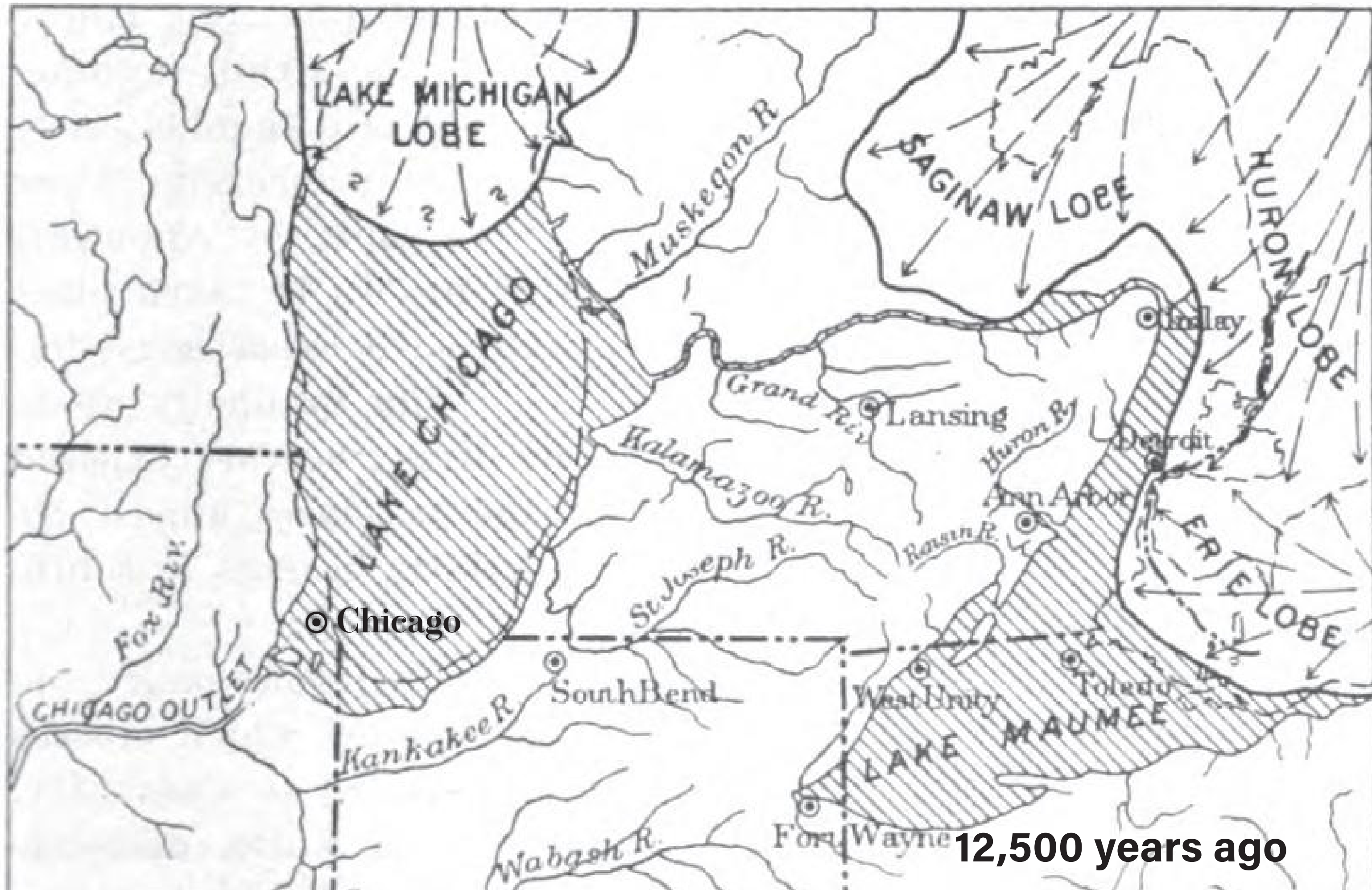




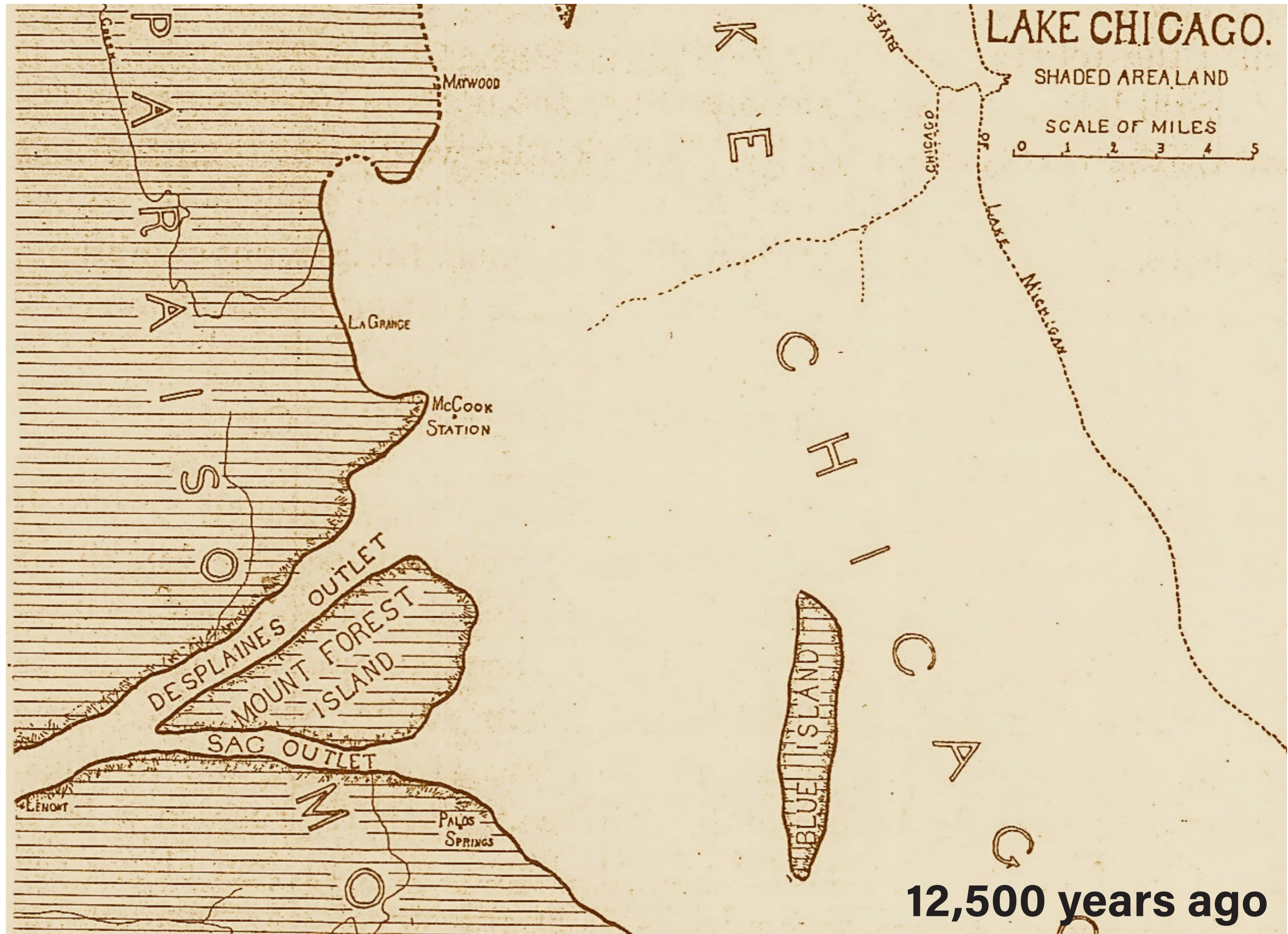
# Late Wisconsinan End Moraines and Lake Plains

- Lake plains and lakes
- End moraines



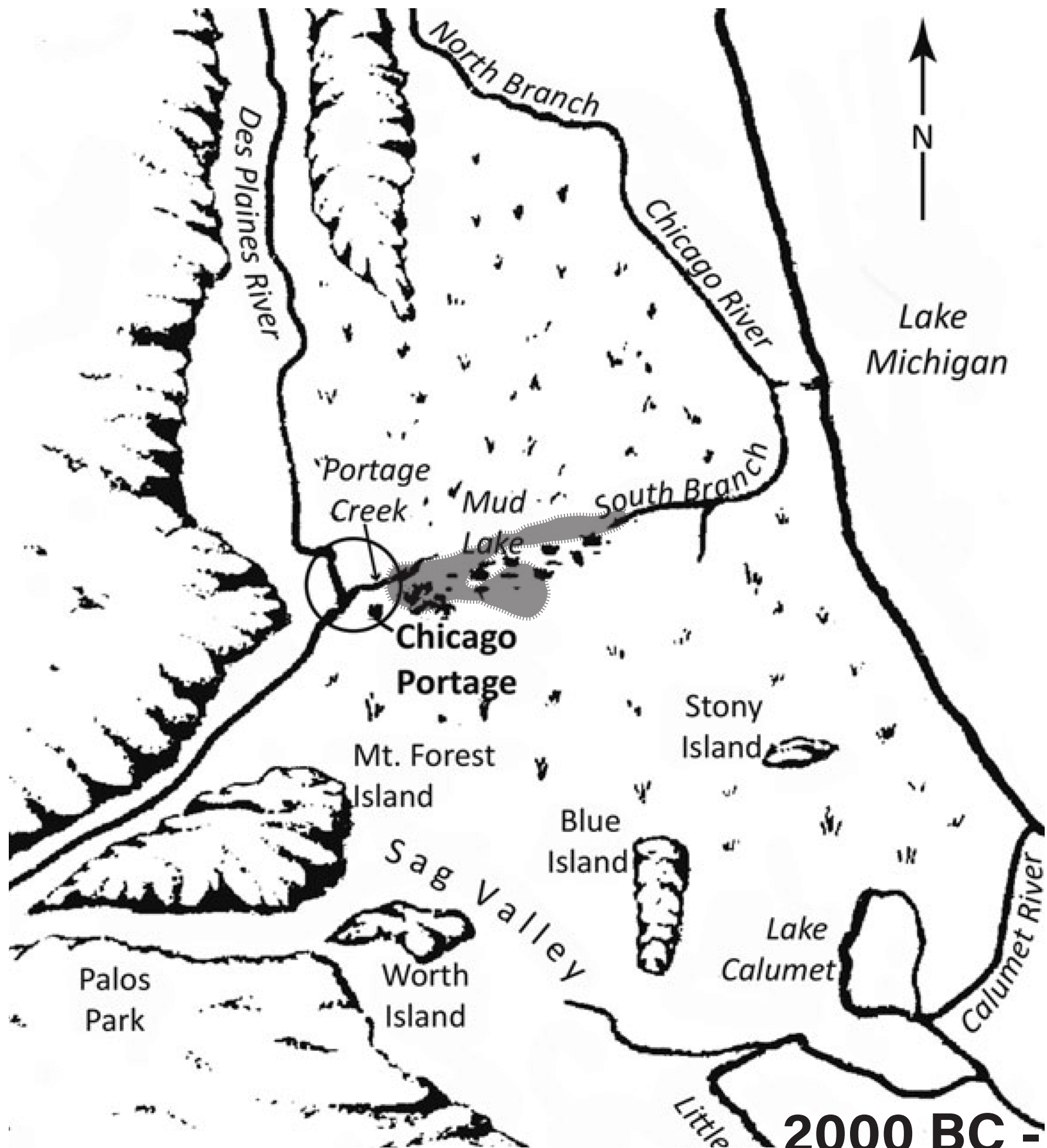






12,500 years ago





**2000 BC - 1848 AD**







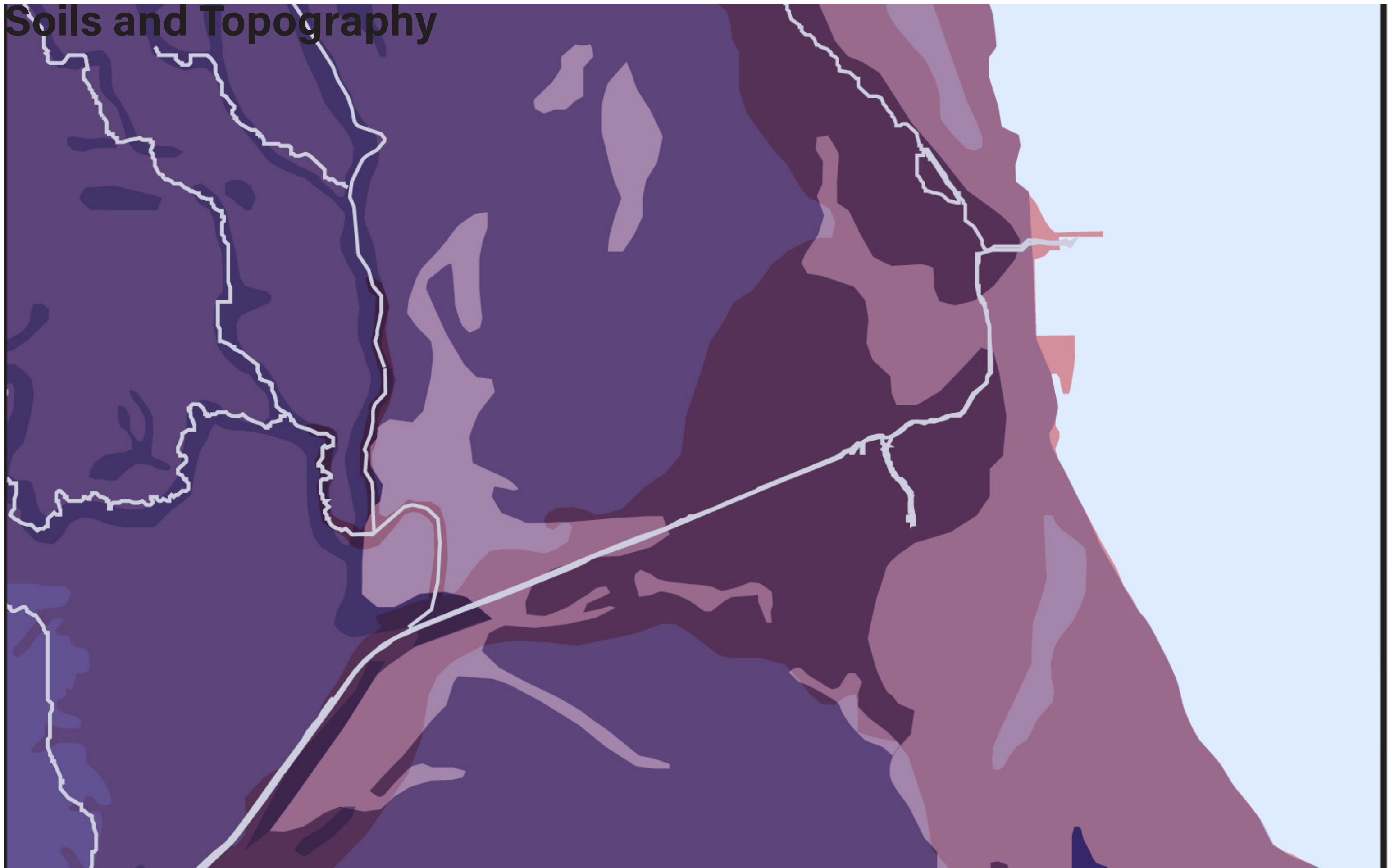
# Soils



# Topography



# Soils and Topography

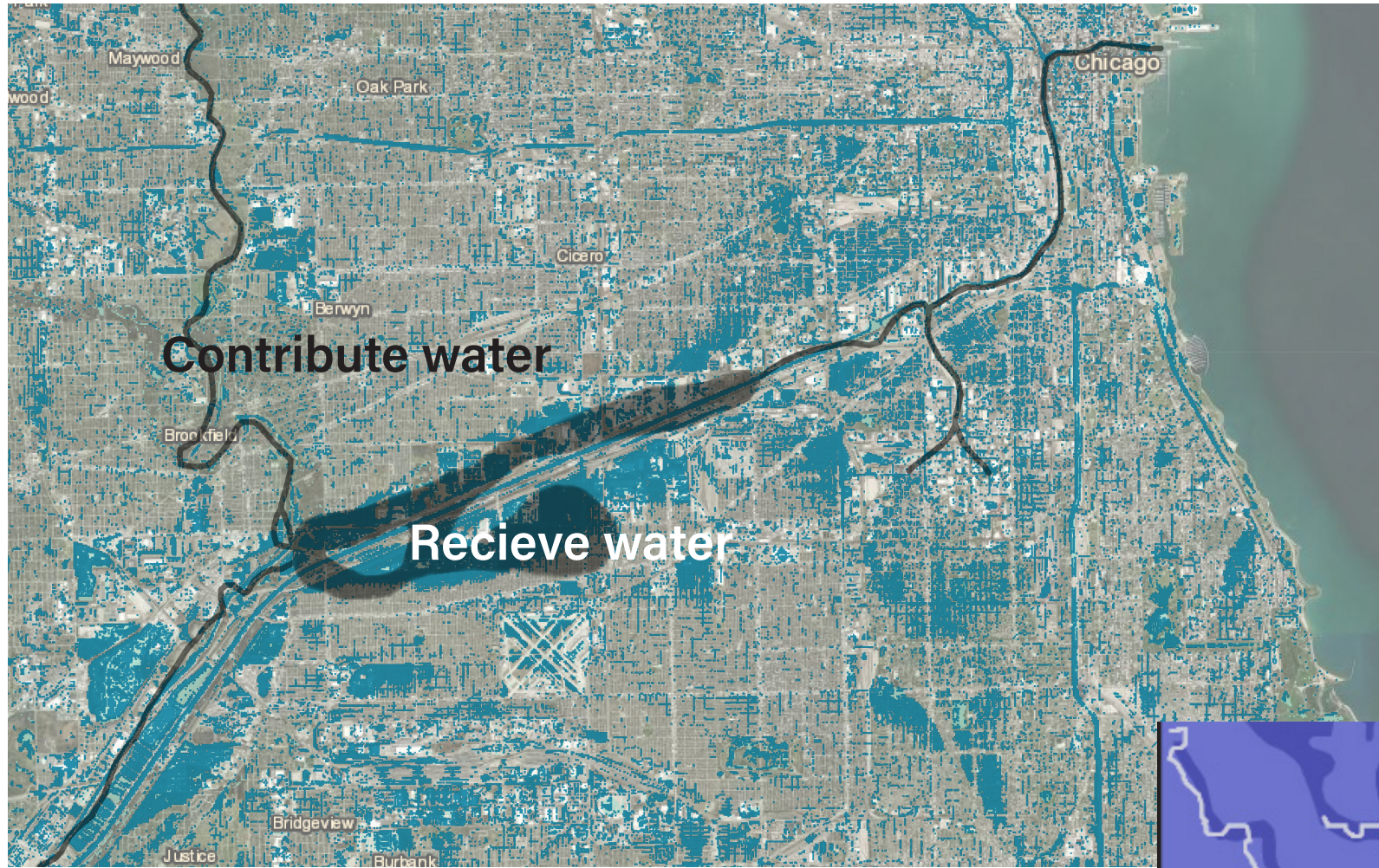




Low elevation  
and  
Clay soils

**WHAT WATER MANAGEMENT  
STRATEGIES ARE MOST  
EFFECTIVE?**





Topography and Watersheds

Soils





RECEIVES WATER CONTRIBUTES WATER

# RETENTION

## CLAY SOIL

### WET PRAIRIE



Slow water  
Clean water

### WETLAND



Store water  
Clean water

## SANDY SOIL

# DETENTION

### DRY PRAIRIE / FOREST



Absorb water  
Return it to the atmosphere





**We must work with water, not against it ...  
we are stewards of the earth.**

---

# THANK YOU FOR PARTICIPATING!

Contact us with questions:

Presenter: Caleb Hadley, [chadley1@hawk.iit.edu](mailto:chadley1@hawk.iit.edu)

All rights reserved. No part of this presentation, publication, research or materials may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author(s).