

FROM 95,000 TO 20,000 YEARS AGO

Ice covered most of the continent



Glacier at Oval Beach

Ice age leaving

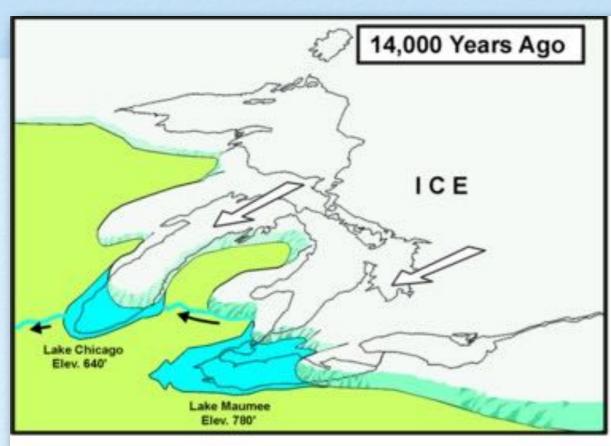
14000 Years ago

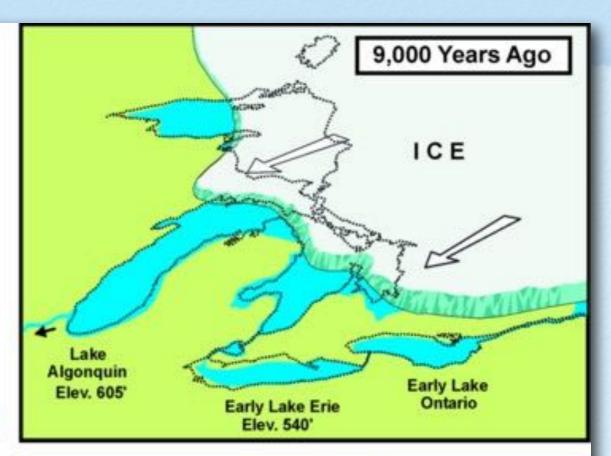
Ice up to a mile thick

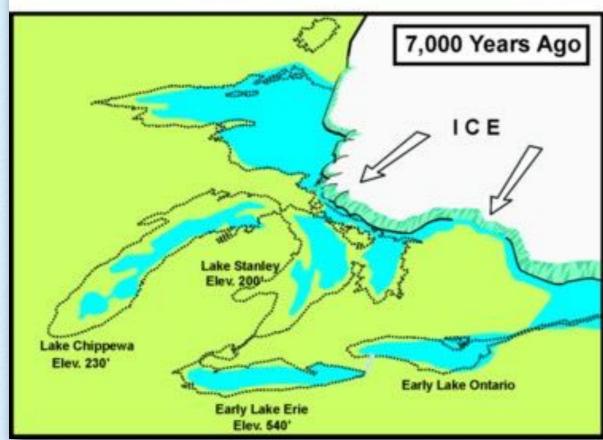
Cold cold cold

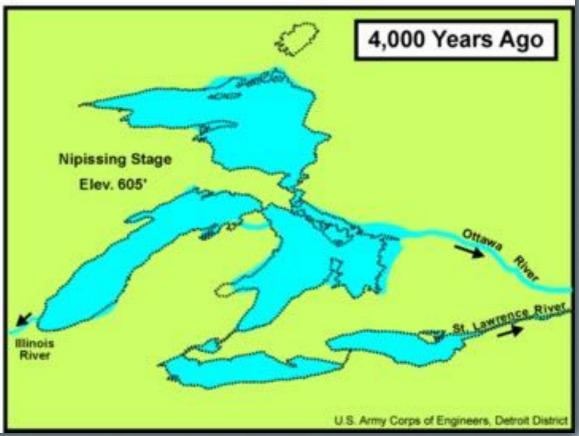


LAURENTIDE ICE SHEET









A LOT OF WATER

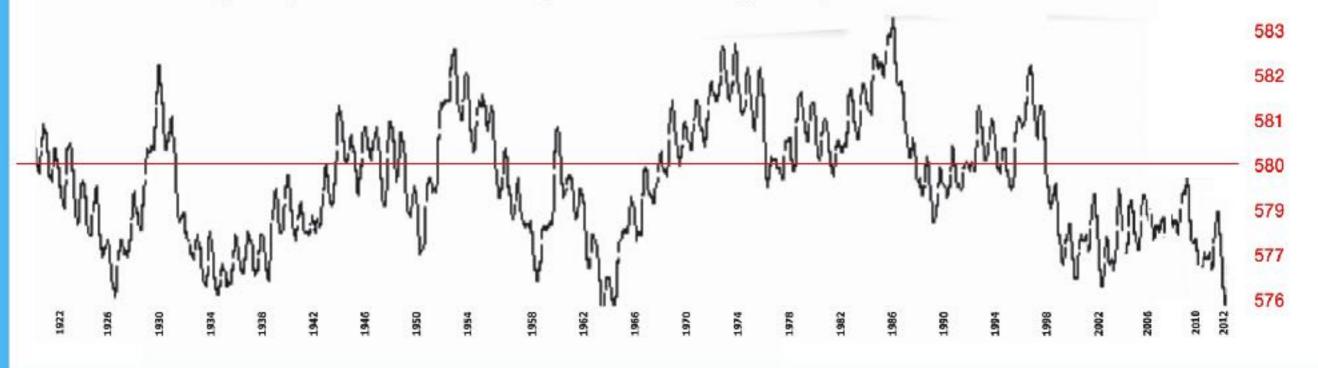


GREAT LAKES SUPERLATIVES

- The five Great Lakes Erie, Huron, Michigan, Ontario, and Superior contain about 20% of the world's fresh water. They contain enough water to cover forty eight of the United States with a lake ten feet deep.
- A drop of water that enters the upper end of Lake Superior will travel through that lake, exiting via the St. Marys River into lakes Huron and Michigan. From there the droplet will eventually flow into the St. Clair River, into Lake St. Clair, and then into the Detroit River and Lake Erie. The water drop will leave Lake Erie by way of the Niagara River, drop over Niagara Falls, and enter Lake Ontario. From there, it will enter the St. Lawrence River and eventually exit into the Atlantic Ocean. The water droplet's journey through the Great Lakes will take approximately 320 years!
- The five Great Lakes collectively cover about 95,000 square miles of surface area an area roughly equivalent to the states of New York and Ohio. The total shoreline of the Great Lakes is 10,900 miles
- There are about 35,000 islands in the Great Lakes, and most of them are in Lake Huron. The world's largest island in a freshwater lake is Huron's Manitoulin Island, and it harbors the world's largest freshwater lake on an island.
- Lake Superior is by far the largest of the Great Lakes. It is the world's 2nd largest freshwater lake, after Lake Baikal in Russia. Superior is 1,332 feet deep at its deepest, and it could hold all of the other Great Lakes plus three extra Lake Eries.
- Because Erie is so shallow, it is prone to developing extremely rough waters very quickly during storms. As a consequence, it is the resting place for about 1,150 wrecked ships.

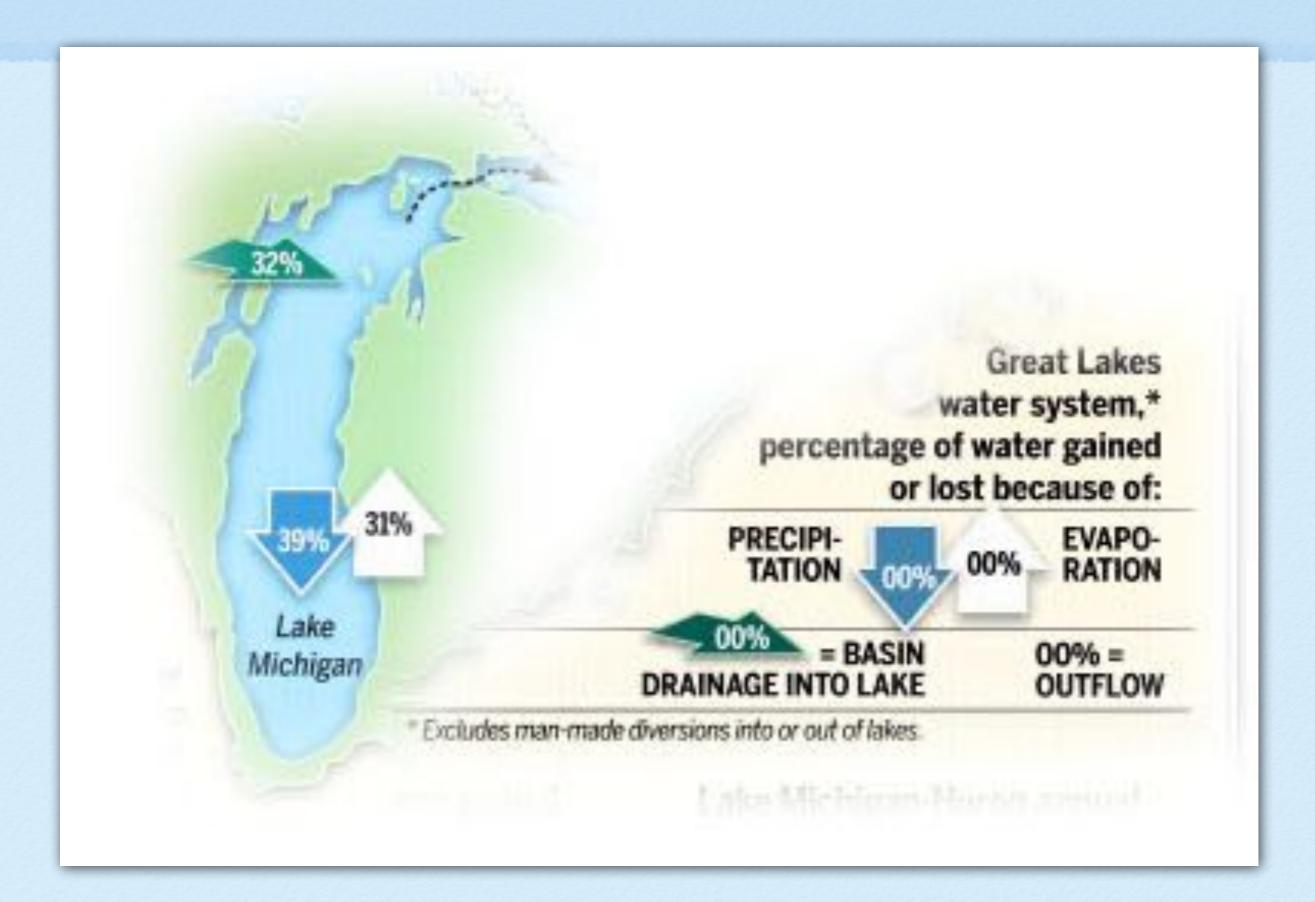
A HISTORICAL LOOK

Between 1913 and 2013 the level of Lake Michigan has had a high of 583 feet above sea level and a low of 576.2 feet for a maximum fluctuation of 6.8 feet.

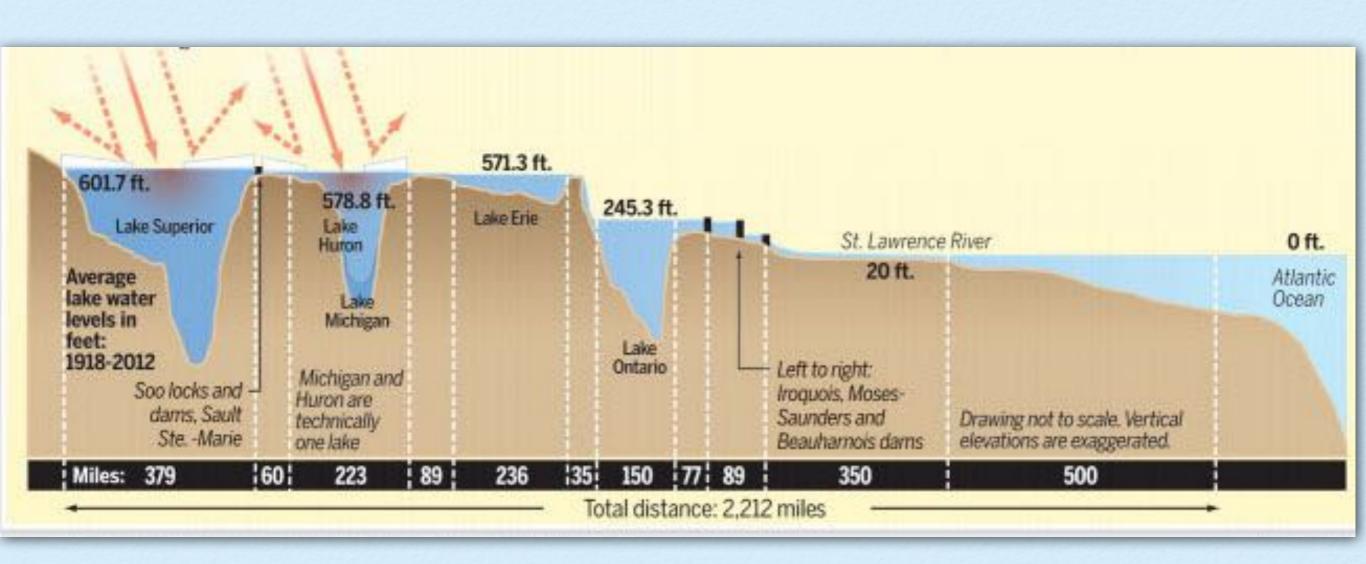


One hundred years of Lake water levels
The red numbers are feet above sea level
The red line is the median level

Water in - water out



A HUGE RIVER



SPLIT ROCK ON LAKE SUPERIOR



SOO VIEW



MACKINAC BRIDGE



FROM HURON TO ERIE

Belle Isle
in the
Detroit
River



NIAGRA FALLS AND ON TO LAKE ONTARIO



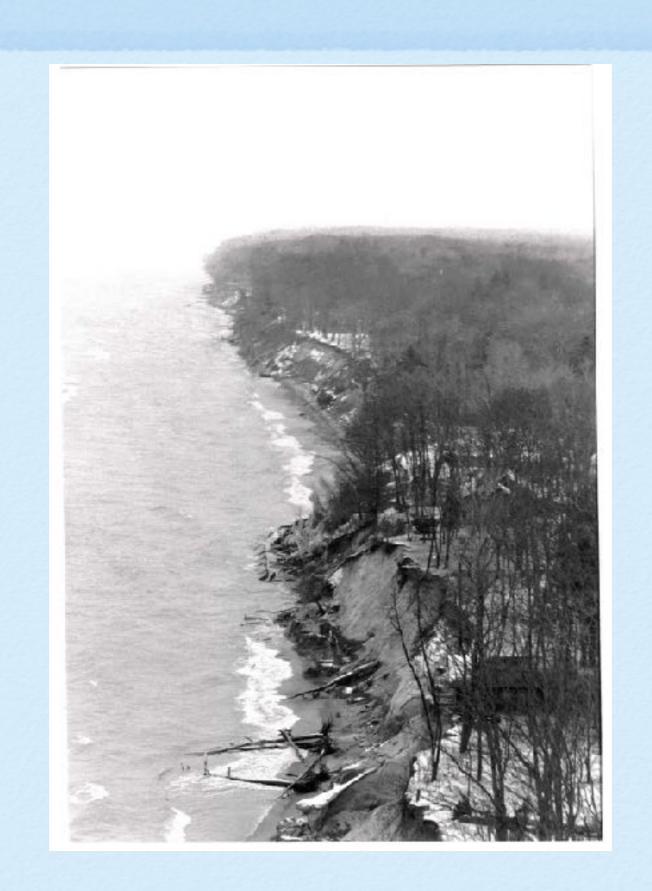
ST LAWRENCE SEAWAY LOCKS



DOUGLAS LAKESHORE 1986



DOUGLAS LAKESHORE 1986



LAKESHORE DRIVE 1986



SAUGATUCK TOWNSHIP EROSION: Severe Lake and forced officials to close road about one month ago. Township and Allegan County officials are now consid-

Michigan shoreline erosion has damaged Lakeshore Township Clerk Patricia Birkholz said officials had to ering possibility of rerouting road, she said. (H-P Aeri-

Drive just south of Douglas in Saugatuck Township close road because it is no longer safe for drivers. al Photos by Chief Photographer Harry Smith)

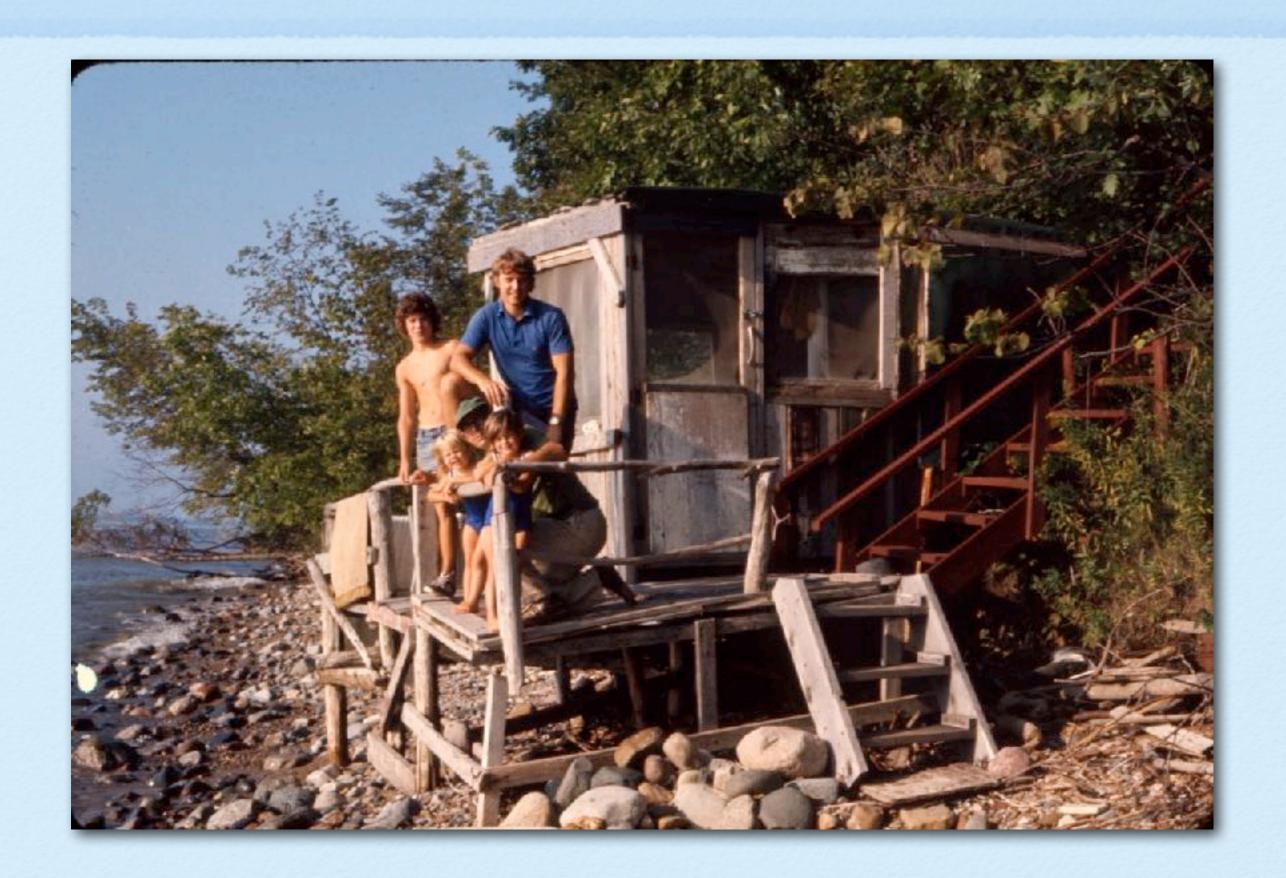
OLD HARBOR 2002



OVAL BEACH 1953



STEVE'S BEACH 1977



STEVE'S BEACH 1986



STEVE'S BEACH 2013



OVAL BEACH 1953



OVAL BEACH 1953



SINGAPORE SITE 1953



OVAL SOUTH OLD PIER 1963



OVAL SOUTH OLD PIER 2013



OVAL SOUTH OLD PIER 2013



OVAL BEACH 2013



KALAMAZOO HARBOR 2012



THATS ALL FOLKS