

The Great Lakes Water Level Dashboard

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Great Lakes Environmental Research Laboratory
National Oceanic and Atmospheric Administration

NOAA Climate Connection Webinar Series
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Outline

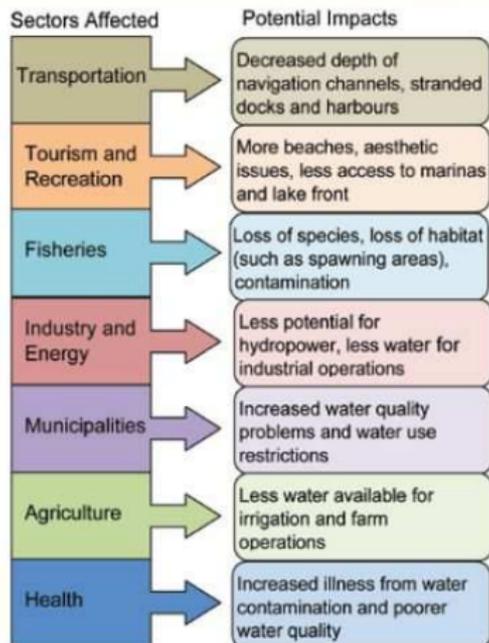
1 Introduction

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- 2 Water level data and forecasts
- 3 Great Lakes water levels dashboard



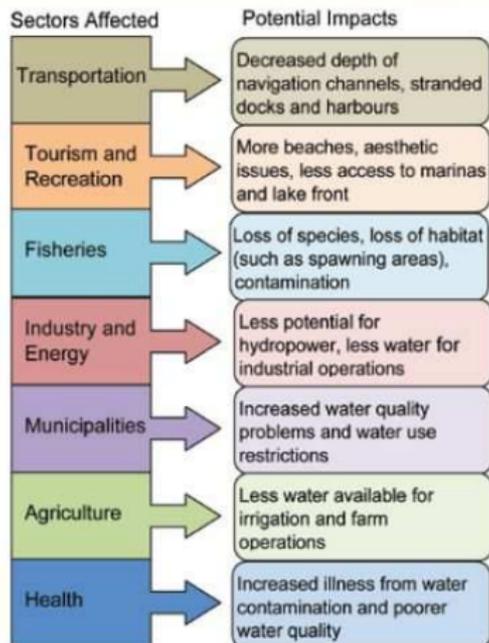
Lower Water Levels in the Great Lakes



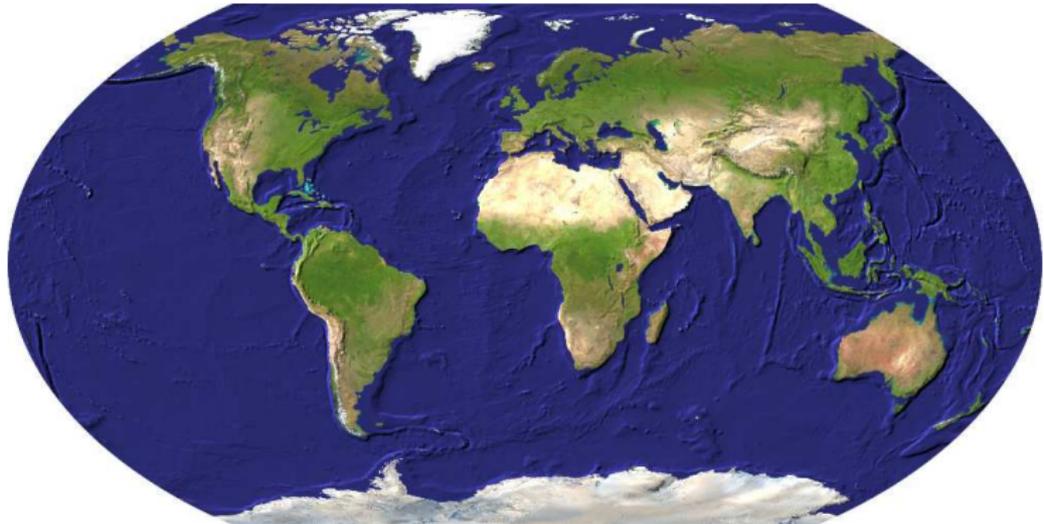
Adapted from Field et al.¹⁶⁴



Lower Water Levels in the Great Lakes



Adapted from Field et al.¹⁶⁴



Name	Country	Surface area		Volume	
		(km ²)	(mi ²)	(km ³)	(mi ³)
Caspian Sea	Multiple	371,000	143,000	78,200	18,800
Michigan–Huron	U.S. and Canada	117,702	45,445	8,458	2,029
Superior	U.S. and Canada	82,414	31,820	12,100	2,900
Victoria	Multiple	69,485	26,828	2,750	660
Tanganyika	Multiple	32,893	12,700	18,900	4,500
Baikal	Russia	31,500	12,200	23,600	5,700
Great Bear Lake	Canada	31,080	12,000	2,236	536
Malawi	Multiple	30,044	11,600	8,400	2,000
Great Slave Lake	Canada	28,930	11,170	2,090	500
Erie	U.S. and Canada	25,719	9,930	489	117
Winnipeg	Canada	23,553	9,094	283	68
Ontario	U.S. and Canada	19,477	7,520	1,639	393

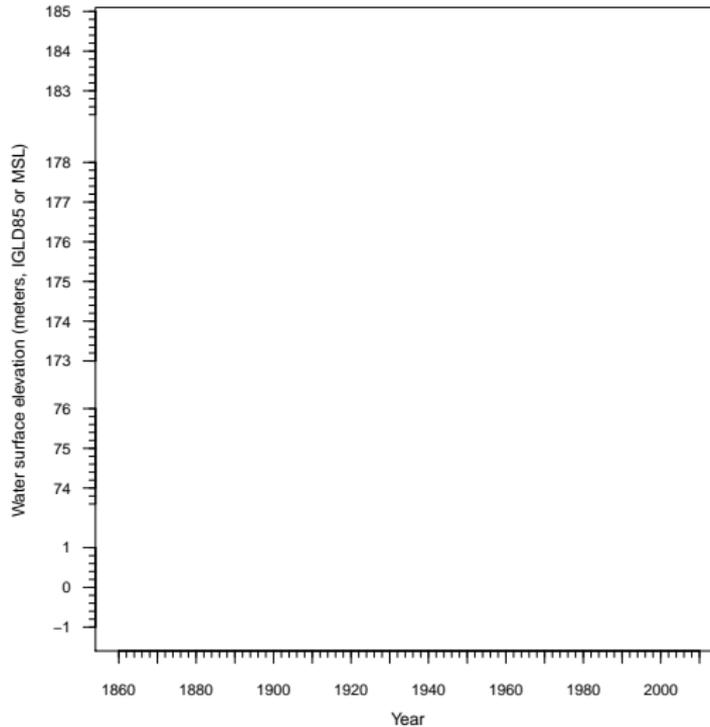
Table: Water volume and surface areas of the earth's twelve highest surface area continental water bodies.

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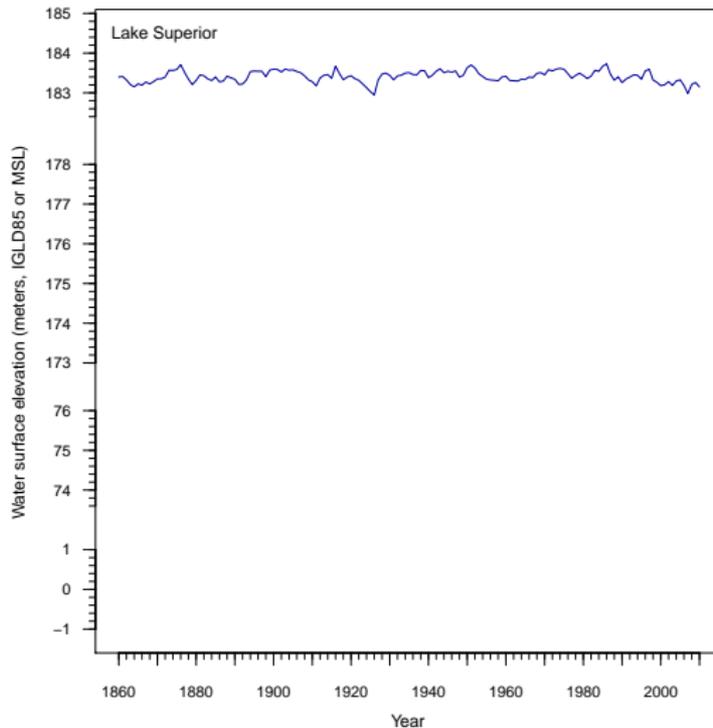
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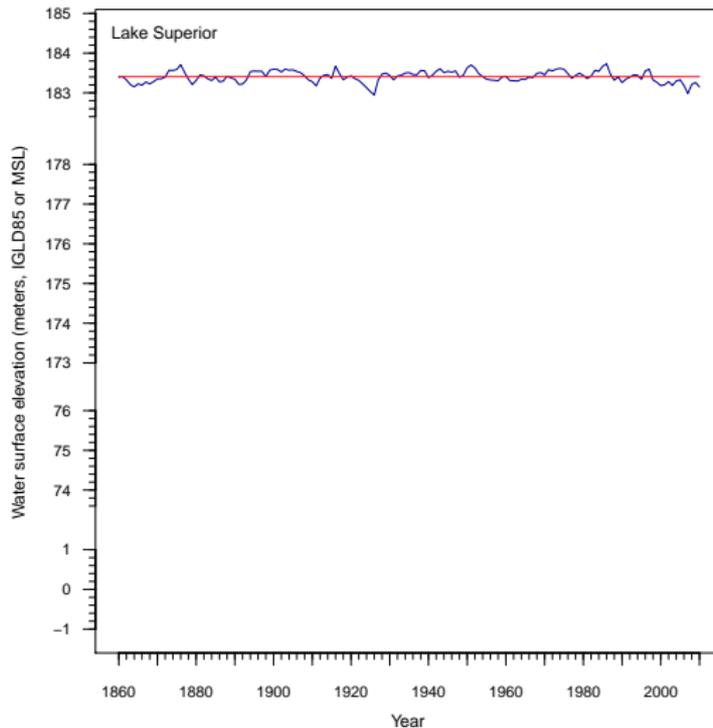
Water levels: observations (long-term)



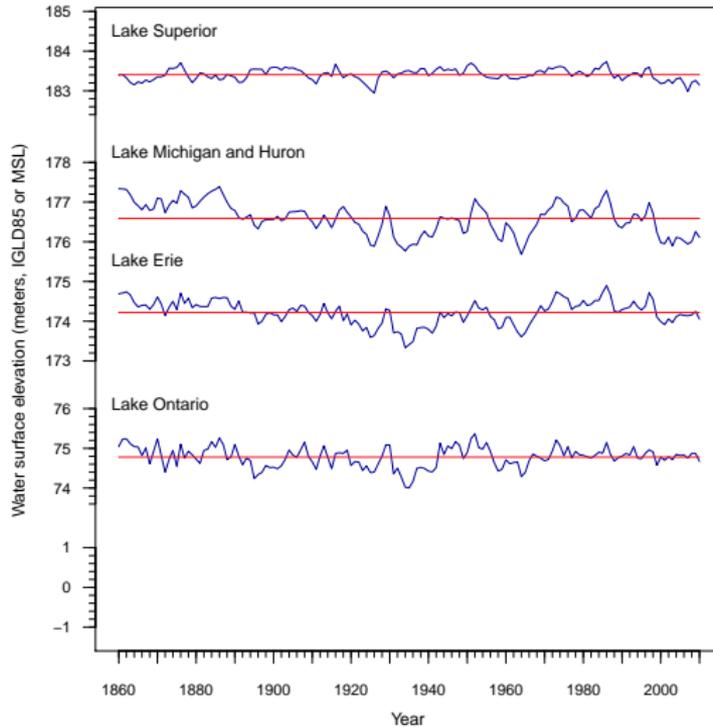
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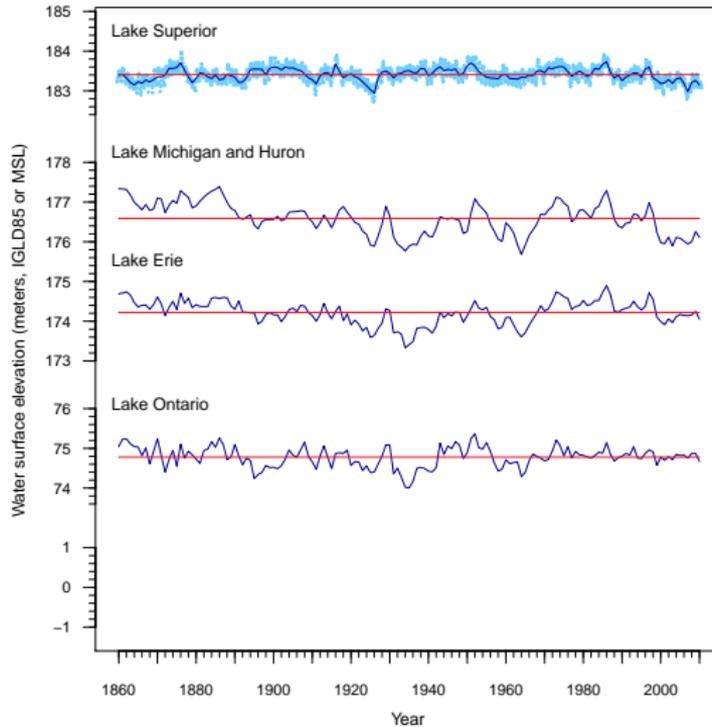
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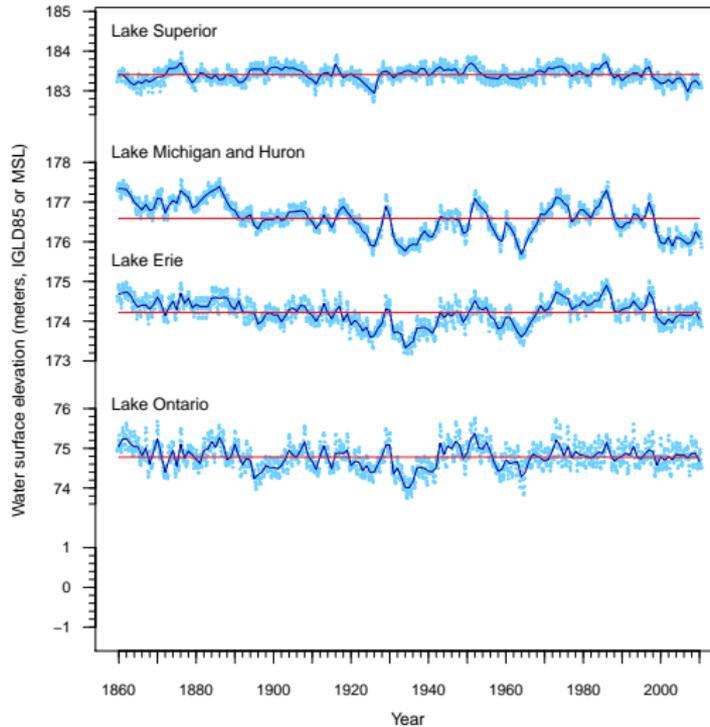
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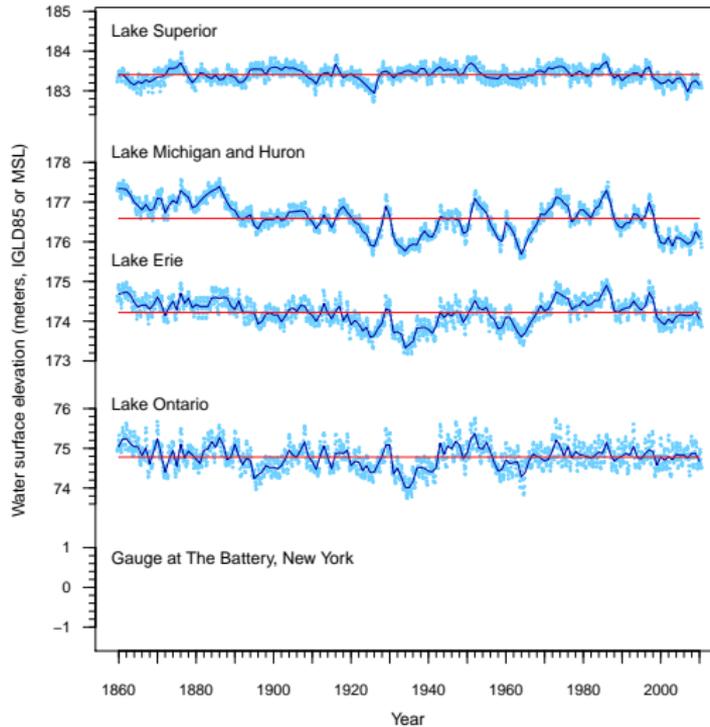
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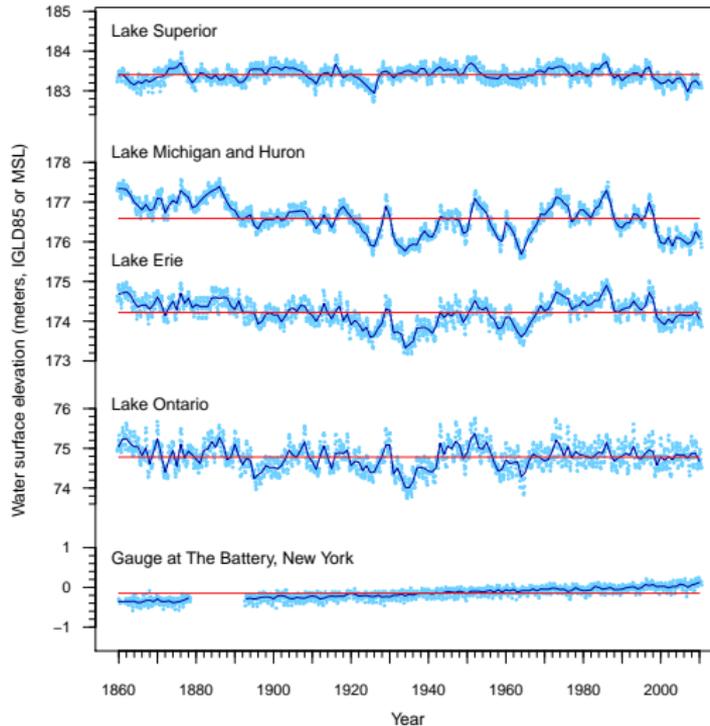
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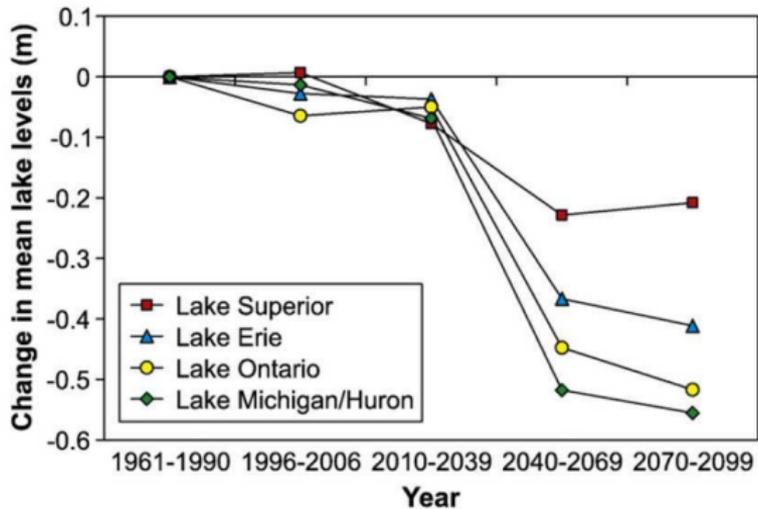
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Water level forecasts



From: Hayhoe, et al., (2010)

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- NOAA GLERL’s web-page: “www.glerl.noaa.gov”
- Direct link to Great Lakes water levels dashboard: “www.glerl.noaa.gov/data/now/wlevels/dbd/”

Acknowledgements

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- USEPA (GLRI), ACOE, USGS, and Environment Canada

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