

Where is the shoreline?

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—Rhode Island State Constitution (Article 1 Section 17)

We concur in this analysis and **apply the mean-high-tide line as the landward boundary of the shore** for the purposes of the privileges guaranteed to the people of this state by our constitution. This court has held that the common law governs the rights and obligations of the people of the state unless that law has been modified by our General Assembly.

-Rhode Island Supreme Court, State v. Ibbison (1982)

Presentation Overview



Tides and tidal datums



Visible high tide indicators



Coastal processes



Field surveys

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Presentation Overview

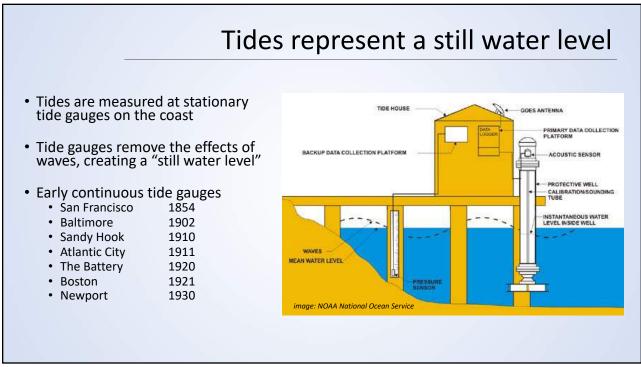
RI long-term environmental datasets

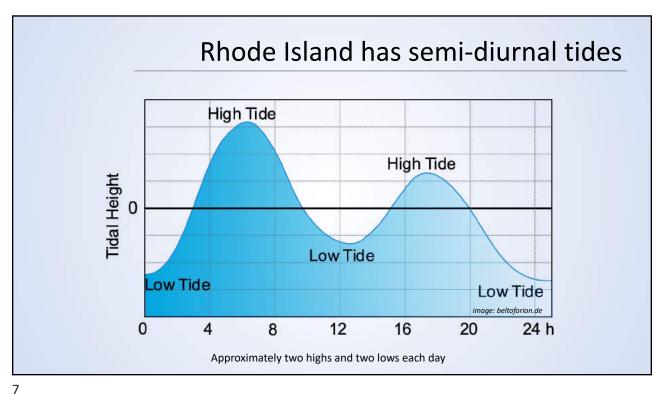
	Dataset	Location	Record		
Tide	NOAA Station 8452660	Newport	1930-present		
Elevation	URI beach transects	RI South Shore	1962-present		
Waves	NDBC Waverider Buoy 44097	Block Island	2009-present		
Coastal processes					



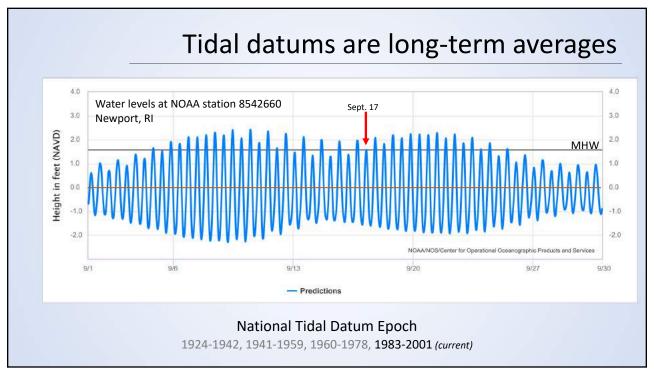
Field surveys

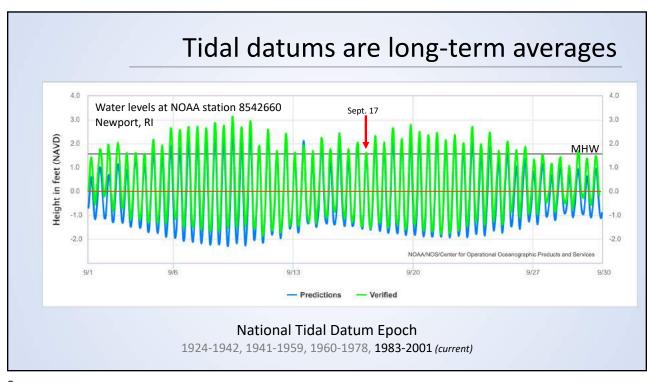


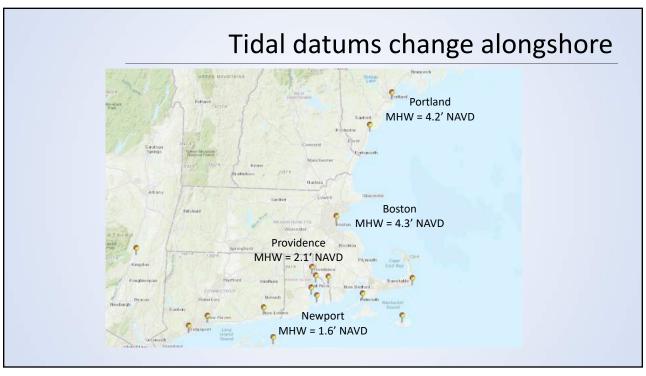


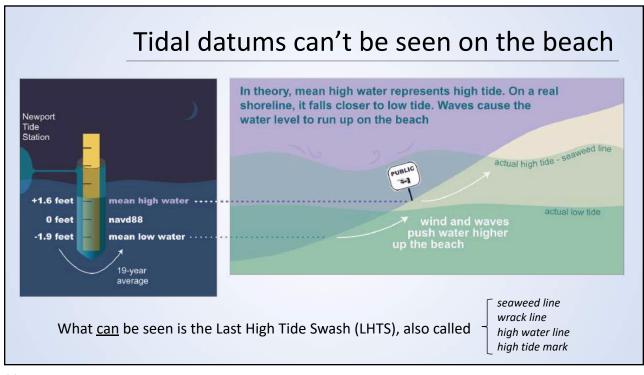


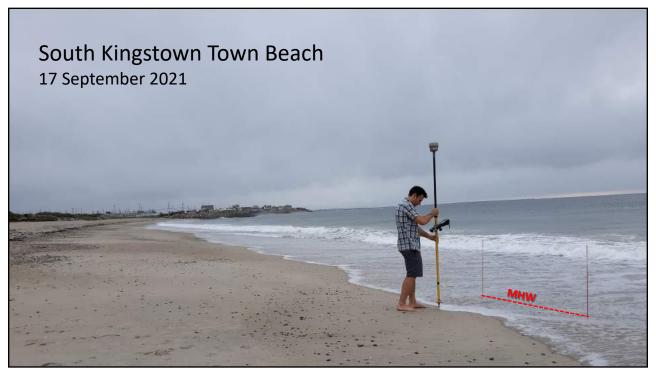
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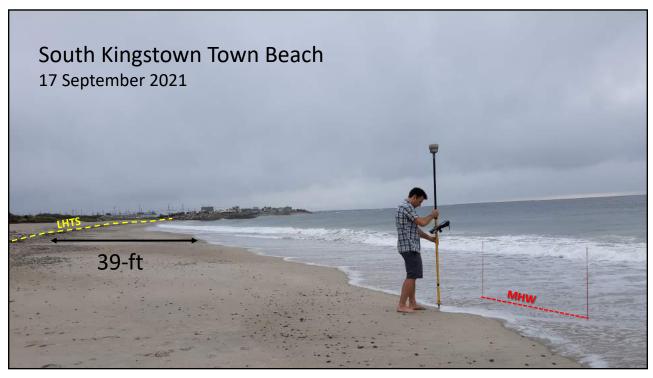




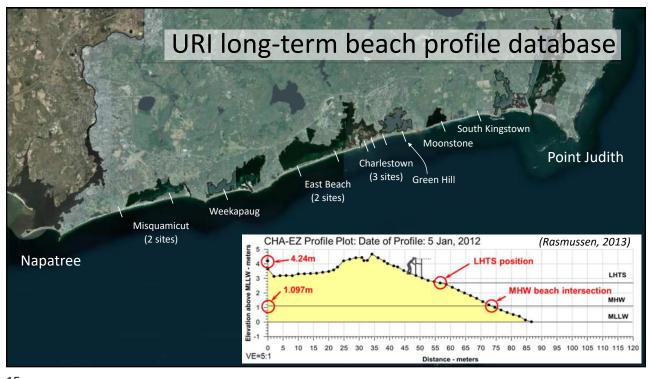


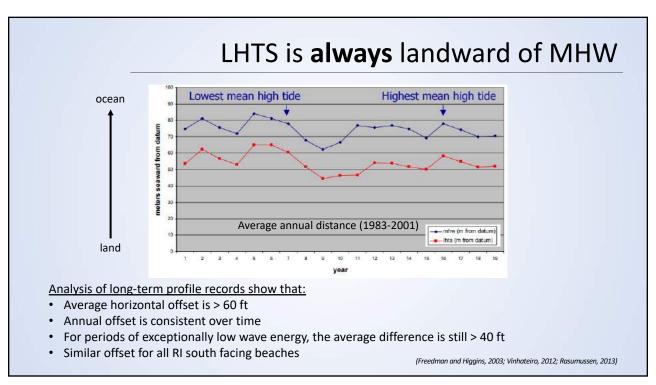




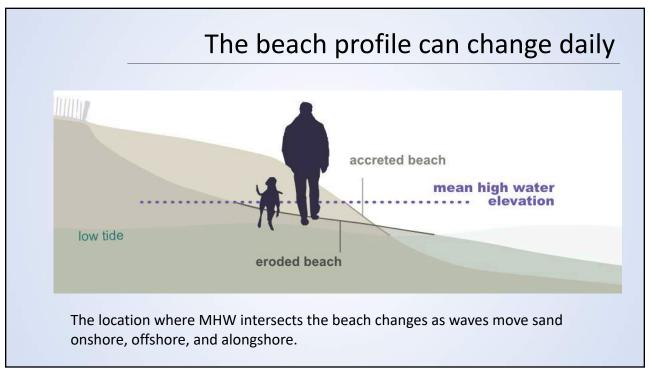


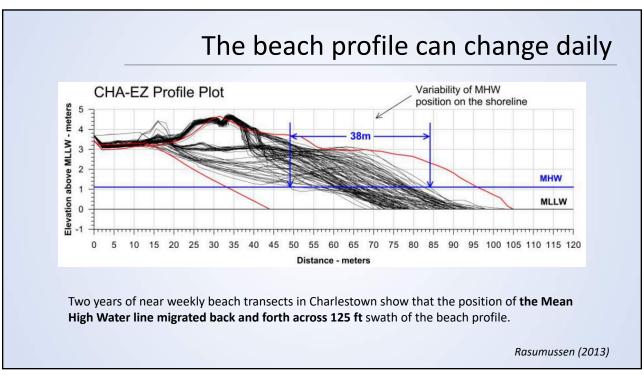


















Borax v. City of Los Angeles (1935)

"In view of the definition of the mean high tide, as given by the United States Coast and Geodetic Survey, that `[m]ean high water at any place is the average height of all the high waters at that place over a considerable period of time,' and the further observation that `from theoretical considerations of an astronomical character' there should be a `periodic variation in the rise of water above sea level having a period of 18.6 years' the Court of Appeals directed that in order to ascertain the mean high tide line with requisite certainty in fixing the boundary of valuable tidelands, such as those here in question appear to be, `an average of 18.6 years should be determined as near as possible.' We find no error in that instruction."

─U.S. Supreme Court, Borax Consolidated Ltd. v. Los Angeles (1935)

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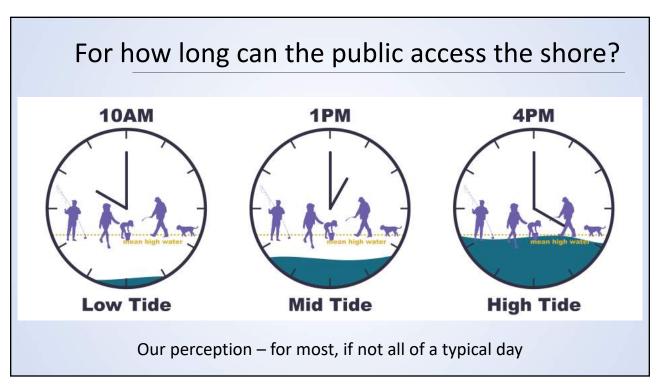
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Borax v. City of Los Angeles (1935)

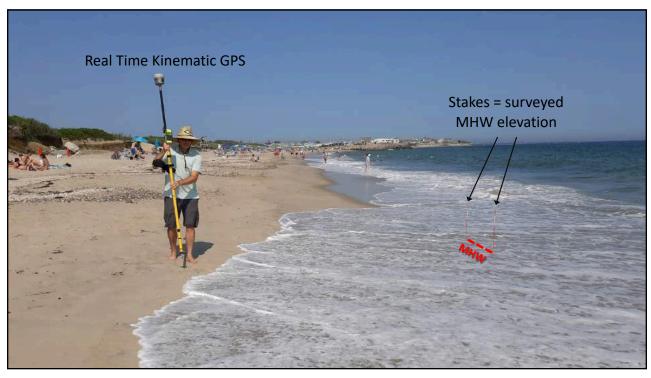


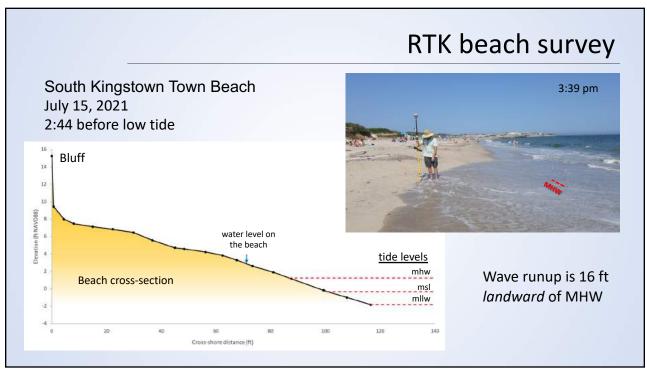


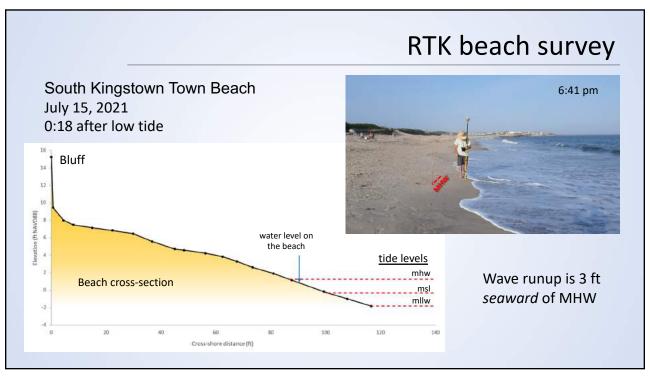


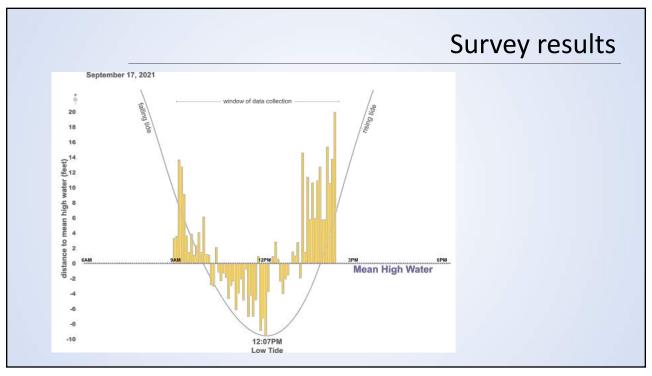


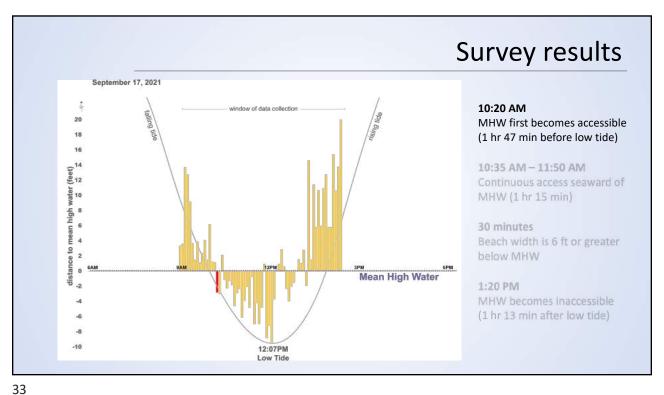
	E LATER					
Date	High Tide	Low Tide	Tide Height (ft NAVD) ¹	Offshore Wave Height (ft) ²		
July 15	12:35 PM	6:23 PM	1.7	2.5		
August 18	4:41 AM	10:46 AM	1.6	1.6		
September 17	5:44 AM	12:07 PM	1.6	4.0		
Notes: 1. MHW elevation - 1.6 ft 2. Average offshore wave height – 4.5 ft						

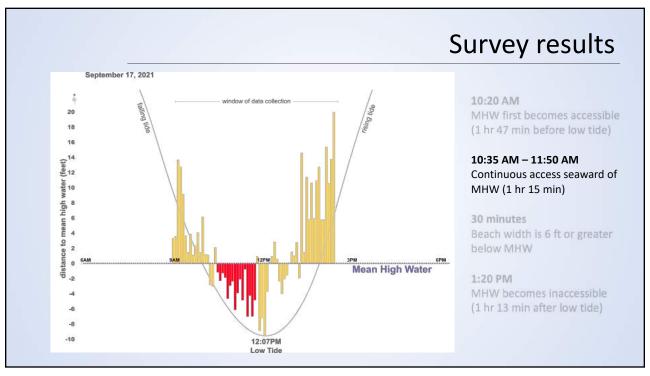


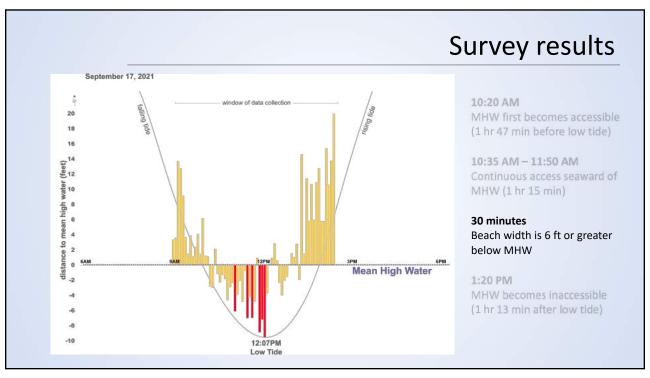


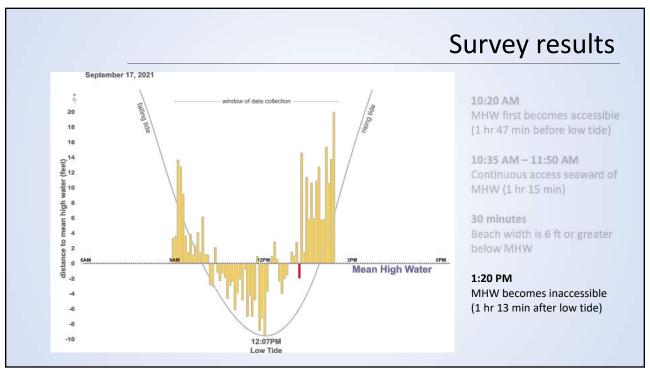












Survey results

Date	MHW Accessible	Continuous Access	"Walkable Beach" (>6 ft)	Offshore Wave Height (ft)
July 15	2 hr 20 min	1 hr 30 min	0 min	2.5
August 18	4 hr 30 min	3 hr 45 min	2 hr 30 min	1.6
September 17	2 hr 15 min	1 hr 15 min	30 min	4.0

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For how long can the public access the shore?



Our reality – at most, a few hours around low tide

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