

A 1,000 year high-resolution hurricane history for the Boston area based on the varved sedimentary record from the Lower Mystic Lake (Medford/Arlington, MA).

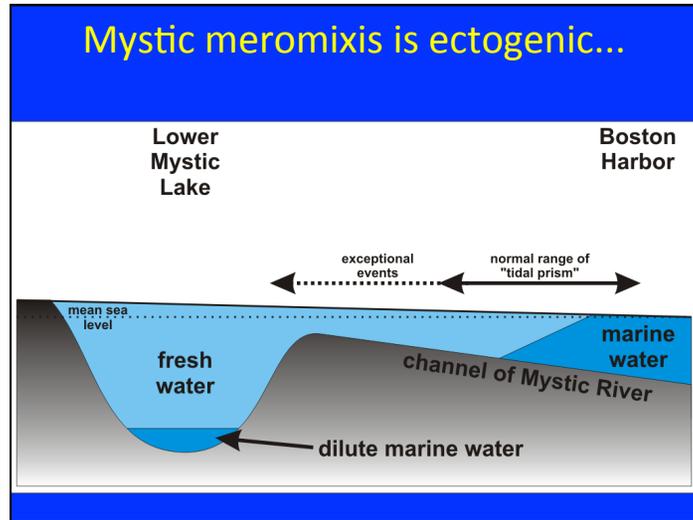
Three panels showing sediment core varves. The left panel shows a close-up of light-colored sediment with distinct white, branching patterns. The middle panel shows a cross-section of sediment with dark, wavy, horizontal layers. The right panel shows a close-up of horizontal sediment layers with varying shades of gray and white, indicating different sediment types or conditions over time.



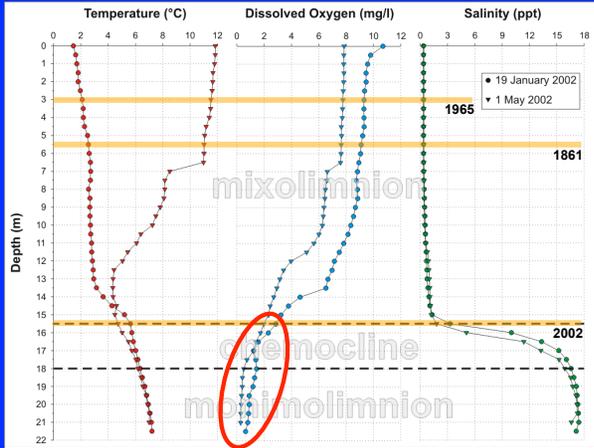
Possible control on trajectories...

- fluctuations in jet stream and location of Bermuda High may funnel hurricanes into Gulf, else up eastern seaboard of U.S.

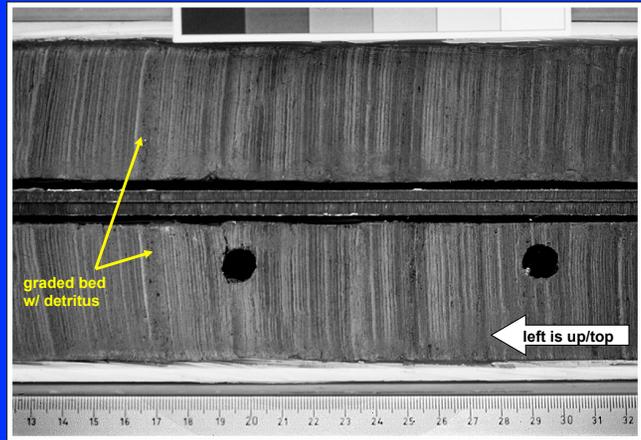
5,000-3,400 °C yr B.P. & 1,000 °C yr B.P. to present
 "quiescent" regime
 3,400-1,000 °C yr B.P.
 "hyperactive" regime
 from Liu and Fearn (2000)



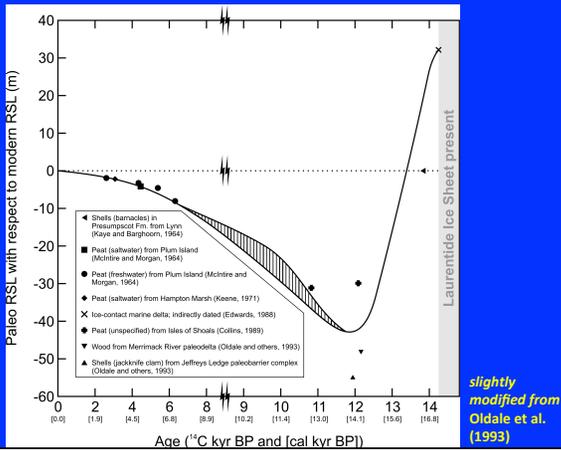
Anoxia results from meromixis...



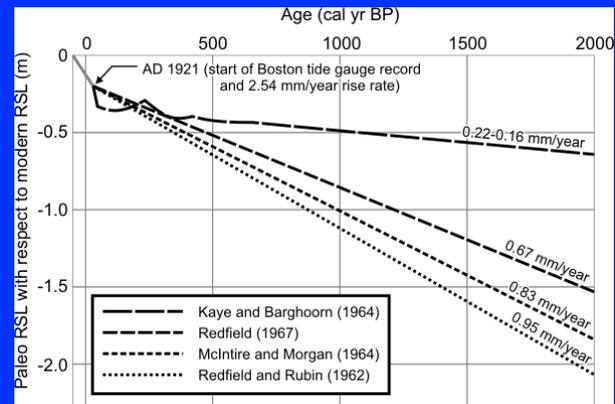
Exquisite laminae the result...



Boston RSL since deglaciation

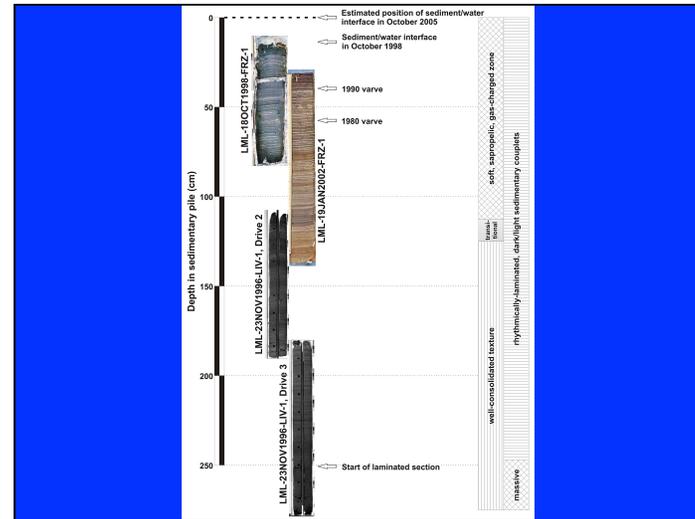
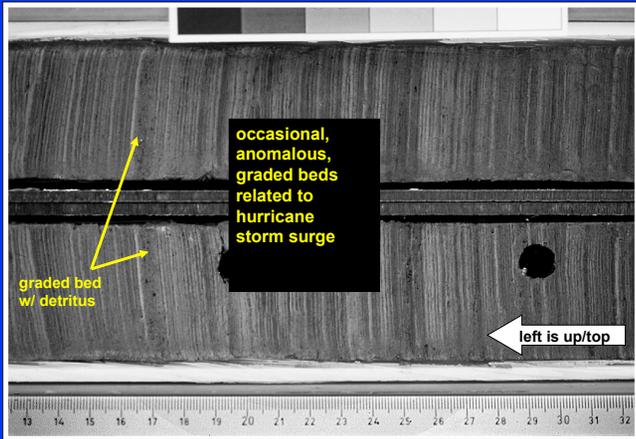


Boston RSL last 2000 years

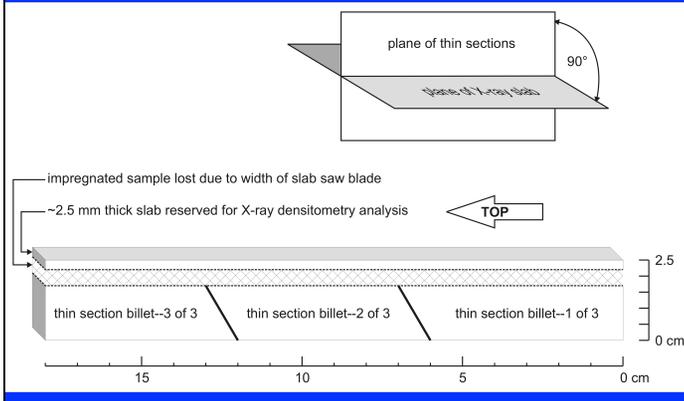




Original hypothesis...



Impregnated sediment blocks



Example thin section...

