

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).

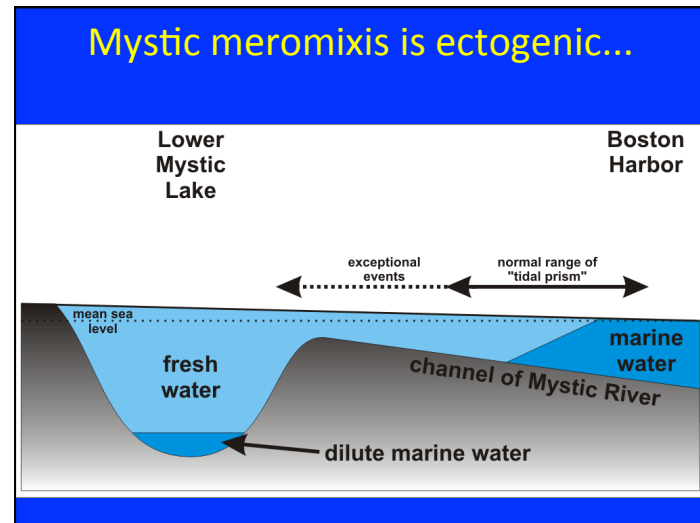
Three panels showing sediment core varves. The left panel shows a close-up of light-colored, fine-grained sediment with distinct horizontal layering. The middle panel shows a close-up of dark, organic-rich sediment with distinct horizontal layering. The right panel shows a close-up of light-colored, fine-grained sediment with distinct horizontal layering.



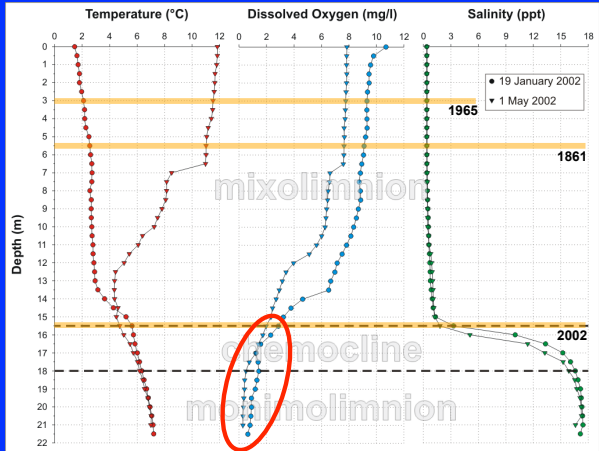
Possible control on trajectories...

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

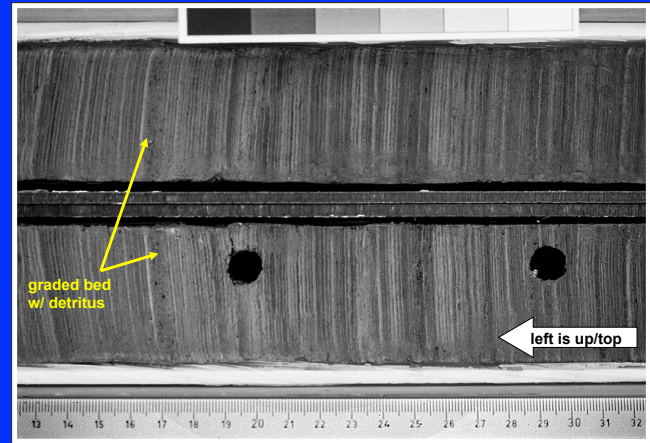
5,000-3,400 °C yr B.P. & 1,000 °C yr B.P. to present
 "quiescent" regime
 3,400-1,000 °C yr B.P.
 "hyperactive" regime
 from Liu and Fearn (2000)



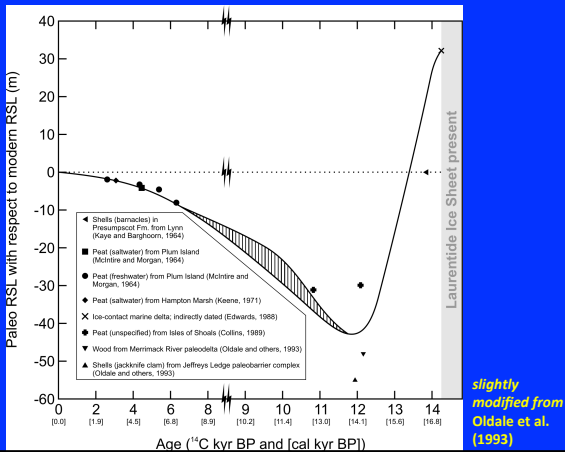
Anoxia results from meromixis...



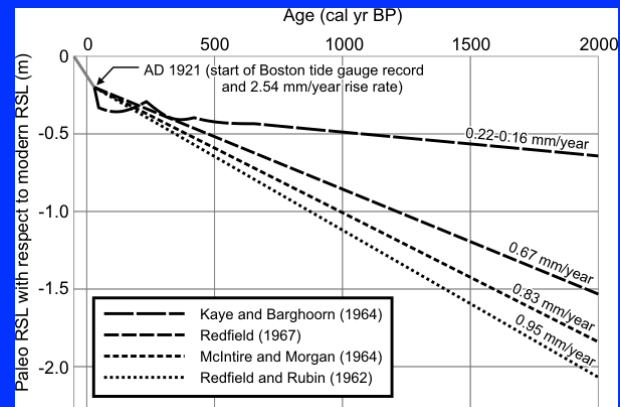
Exquisite laminae the result...



Boston RSL since deglaciation

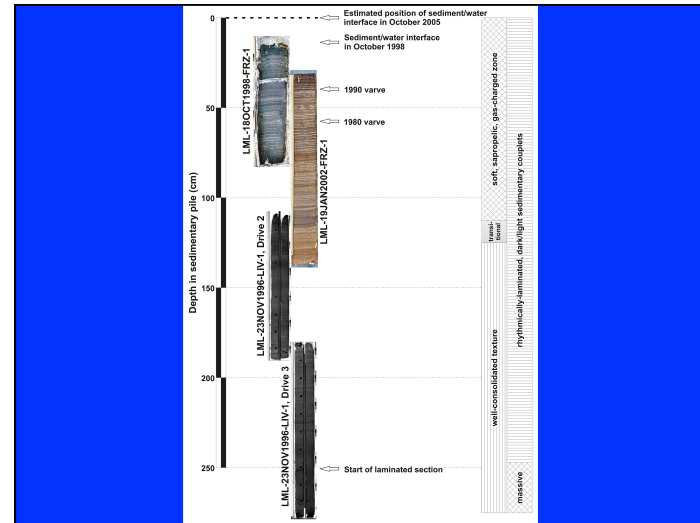
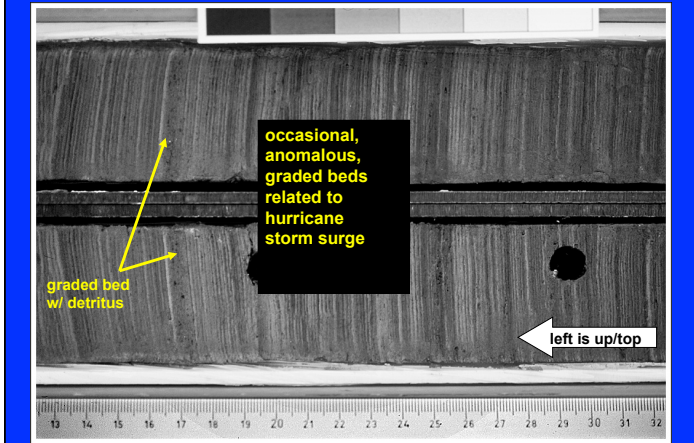


Boston RSL last 2000 years

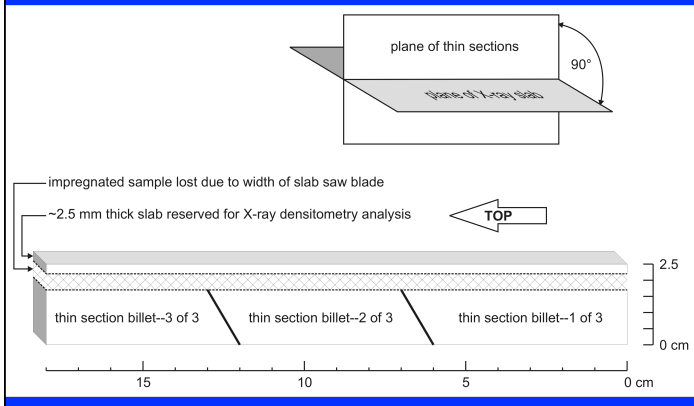




Original hypothesis...



Impregnated sediment blocks



Example thin section...

